Jackson County Highway Facility

N5579 STATE HIGHWAY 54, Black River Falls, WI 54615

BID PACKAGE #2

06.22.2026

Jackson County Highway Department
119 Harrison Street Black River Falls, WI 54615

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PLUMBING ENGINEER OF RECORD

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Date: 06/22/2026
ELECTRICAL ENGINEER OF RECORD

ABBREVIATIONS

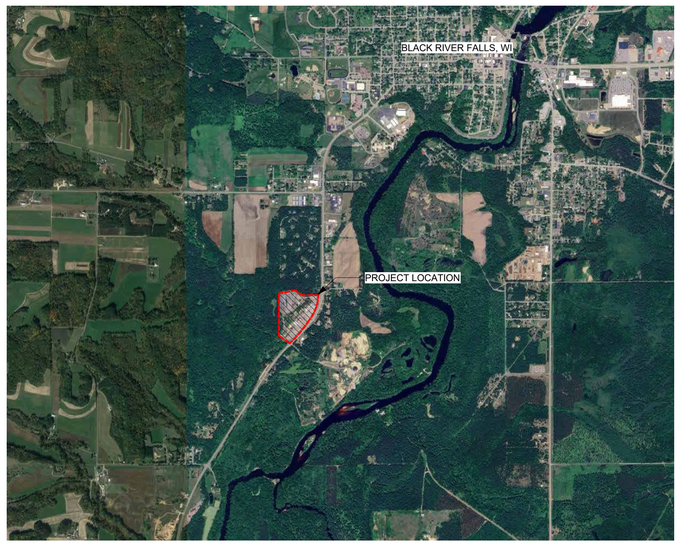
A.C.T. or ACT - ACOUSTICAL CEILING TILE
A.F.F. - ABOVE FINISHED FLOOR
ACC. – ACCESORY(IES)
AVE. - AVENUE
B.O.B. - BOTTOM OF BEAM
BD. - BOARD
BLDG. - BUILDING
C.J. - CONTROL JOINT
C.L. CENTERLINE
CLR. - CLEAR
CMU - CONCRETE MASONRY UNIT
CONC. - CONCRETE
COND. – CONDITION(S)
CONST. – CONSTRUCTION
CONT. - CONTINUOUS
CT. - COURT
DES. – DESCRIPTION
DGLS. – DOUGLAS
DIA. - DIAMETER
DIM. – DIMENSIONAL
DR. - DRIVE
E.S. - EXPOSED STRUCTURE
ELEV. – ELEVATION(S)
EQ. - EQUAL
ETC. - ETCETERA

N.T.S. - NOT TO SCALE
O.C. or O/C - ON CENTER
O.H. - OVERHEAD
P.LAM. - PLASTIC LAMINATE
P.T. - PRESSURE TREATED
PART. – PARTIAL
PLYWD. - PLYWOOD
POLYISO. - POLYISOCYANURATE
R.C.P. – REFLECTED CEILING PLAN
R.O. - ROUGH OPENING
RD. - ROAD
REF. - REFLECTED
REINF. - RE-INFORCEMENT
REQ. - REQUIRED
RFEC - RECESSED FIRE EXTINGUISHER CABINET
RPTD - RECESSED PAPER TOWEL DISPENSER (AND WASTE)
S.F. or sf - SQUARE FEET
S.O.G. - SLAB ON GRADE
S.S. - STAINLESS STEEL
SCHED. - SCHEDULE(D)
SECT. – SECTION(S)
SQ. or sq. – SQUARE
ST. - STREET
STL. - STEEL
T.O.B. - TOP OF BEAM

EXIST. – EXISITNG
EXP. - EXPOSURE
EXT. - EXTERIOR
F.D. - FLOOR DRAIN, SEE PLUMBING
FEC - FIRE EXTINGUISHER CABINET, SEMI-RECESSED
F.F.L. - FINISHED FLOOR LEVEL
FIN. - FINISH
FLR. – FLOOR
G.S.F. or gsf - GROSS SQUARE FEET
GALV. - GALVANIZED
GWB. - GYPSUM WALL BOARD
HDWD. - HARDWOOD
HGT. – HEIGHT
HORIZ. - HORIZONTAL
HR. - HOUR
INSUL. - INSULATION
M.O. - MASONRY OPENING
MEZZ. – MEZZANINE
MFG. - MANUFACTURER
MHA - MAYER HELMINIAK ARCHITECTS
MIN. - MINIMUM
MLDG. - MOLDING
MTL. - METAL
N.I.C. - NOT IN CONTRACT
N.S.F. or nsf - NET SQUARE FEET

THK. - THICKNESS
TLT. - TOILET (ROOM)
TYP. - TYPICAL
U.C. or U/C - UNDER (BELOW) COUNTER
U.L. – UNDERWRITER'S LABORATORY, INC
U.O.N. - UNLESS OTHERWISE NOTED
VERT. - VERTICAL
VFY. - VERIFY
W.W.M. - WELDED WIRE MESH
W/ - WITH
W/O – WITH OUT
WD. - WOOD
WI - WISCONSIN
YR. - YEAR

project location map



sheet index

SHEET INDEX	
SHEET NUMBER	SHEET NAME
CIVIL	
C000	EXISTING CONDITIONS - OVERALL
C001	EXISTING CONDITIONS
C002	EXISTING CONDITIONS
C003	EXISTING CONDITIONS
C100	DEMOLITION PLAN - OVERALL
C101	DEMOLITION PLAN
C102	DEMOLITION PLAN
C103	DEMOLITION PLAN
C200	SITE LAYOUT - OVERALL
C201	SITE LAYOUT
C202	SITE LAYOUT
C203	SITE LAYOUT
C300	SITE MATERIALS PLAN - OVERALL
C301	SITE MATERIALS PLAN
C302	SITE MATERIALS PLAN
C303	SITE MATERIALS PLAN
C400	GRADING & UTILITY PLAN - OVERALL
C401	GRADING & UTILITY PLAN
C402	GRADING & UTILITY PLAN
C403	GRADING & UTILITY PLAN
C404	GRADING PLAN & PROFILE
C405	GRADING PLAN & PROFILE
C406	GRADING PLAN & PROFILE
C407	GRADING PLAN & PROFILE
C500	EROSION CONTROL PLAN - OVERALL
C501	EROSION CONTROL PLAN
C502	EROSION CONTROL PLAN
C503	EROSION CONTROL PLAN
C600	CIVIL DETAILS
C601	CIVIL DETAILS
C602	CIVIL DETAILS
C603	CIVIL DETAILS
C700	POWTS
C701	POWTS
ARCHITECTURAL	
A000	TITLE SHEET - CONSTRUCTION DOCUMENTS
A001	LIFE SAFETY
A002	ASSEMBLIES AND PARTITION TYPES
A003	ARCHITECTURAL NOTES
A100	OVERALL FLOOR PLAN
A101	FIRST FLOOR PLAN - AREA A
A102	FIRST FLOOR PLAN - AREA B
A103	FIRST FLOOR PLAN - AREA C
A104	FIRST FLOOR PLAN - AREA D
A106	FIRST FLOOR PLAN - VEHICLE COLD STORAGE
A107	FIRST FLOOR PLAN - EQUIPMENT COLD STORAGE
A111	REFLECTED CEILING PLAN - AREA A
A112	REFLECTED CEILING PLAN - AREA B
A113	REFLECTED CEILING PLAN - AREA C
A114	REFLECTED CEILING PLAN - AREA D
A120	ROOF PLAN
A200	EXTERIOR ELEVATIONS
A201	EXTERIOR ELEVATIONS
A202	EXTERIOR ELEVATIONS
A300	BUILDING SECTIONS - NORTH-SOUTH
A301	BUILDING SECTIONS - EAST-WEST
A310	WALL SECTIONS
A311	WALL SECTIONS
A312	WALL SECTIONS
A313	WALL SECTIONS
A400	PC EXTERIOR DETAILS
A401	EXTERIOR DETAILS
A402	EXTERIOR DETAILS
A403	EXTERIOR DETAILS
A404	PEMB EXTERIOR DETAILS
A600	SCHEDULES - ROOM FINISHES/WINDOWS
A601	SCHEDULES - DOORS
A700	INTERIOR ELEVATIONS
A701	INTERIOR ELEVATIONS
A800	INTERIOR DETAILS
STRUCTURAL	
S001	STRUCTURAL NOTES
S002	STRUCTURAL NOTES
S003	STRUCTURAL NOTES
S004	STRUCTURAL NOTES
S100	FOUNDATION PLAN - OVERALL
S100A	FOUNDATION PLAN - AREA A
S100B	FOUNDATION PLAN - AREA B
S100C	FOUNDATION PLAN - AREA C
S100D	FOUNDATION PLAN - AREA D
S101	SLAB PLAN - OVERALL
S101A	SLAB PLAN - AREA A
S101B	SLAB PLAN - AREA B
S101C	SLAB PLAN - AREA C
S101D	SLAB PLAN - AREA D
S102	INTERMEDIATE FRAMING PLAN - OVERALL
S102C	INTERMEDIATE FRAMING PLAN
S102D	ROOF FRAMING PLAN - AREA D
S103	ROOF FRAMING PLAN - OVERALL
S103A	ROOF FRAMING PLAN - AREA A
S103B	ROOF FRAMING PLAN - AREA B
S103C	ROOF FRAMING PLAN - AREA C
S110	FOUNDATION PLAN - VEHICLE COLD STORAGE
S111	SLAB PLAN - VEHICLE COLD STORAGE
S120	FOUNDATION PLAN - EQUIPMENT COLD STORAGE AND SALT BRINE SHED
S121	SLAB PLAN - EQUIPMENT COLD STORAGE AND SALT BRINE SHED
S122	ROOF FRAMING PLAN - SALT BRINE SHED
S201	FRAMING ELEVATIONS

SHEET INDEX	
SHEET NUMBER	SHEET NAME
S301	STRUCTURAL SECTIONS - MAIN BUILDING
S302	STRUCTURAL SECTIONS - MAIN BUILDING
S303	STRUCTURAL SECTIONS - MAIN BUILDING
S304	STRUCTURAL SECTIONS - MAIN BUILDING
S401	ENLARGED PLANS
S701	FOUNDATION DETAILS
S702	FOUNDATION DETAILS
S703	SLAB-ON-GRADE DETAILS
S704	CMU DETAILS
S705	PRECAST DETAILS
S706	STRUCTURAL STEEL DETAILS
S707	STEEL JOIST DETAILS
S708	STEEL JOIST DETAILS
S709	PEMB FOUNDATION DETAILS
FIRE PROTECTION	
F001	FIRE PROTECTION TITLE SHEET
F100	OVERALL FIRE PROTECTION PLAN
F101	FIRE PROTECTION PLAN - AREA A
F102	FIRE PROTECTION PLAN - AREA B
F103	FIRE PROTECTION PLAN - AREA C
F104	FIRE PROTECTION PLAN - AREA D
F105	FIRE PROTECTION PLAN - VEHICLE COLD STORAGE
PLUMBING	
P001	PLUMBING TITLE SHEET
P100	OVERALL UNDERFLOOR PLUMBING PLAN
P101	UNDERFLOOR PLUMBING PLAN - AREA A
P102	UNDERFLOOR PLUMBING PLAN - AREA B
P103	UNDERFLOOR PLUMBING PLAN - AREA C
P104	UNDERFLOOR PLUMBING PLAN - AREA D
P105	UNDERFLOOR PLUMBING PLAN - STORAGE & BRINE SHED
P110	OVERALL ABOVE FLOOR PLUMBING PLAN
P111	ABOVE FLOOR PLUMBING PLAN - AREA A
P112	ABOVE FLOOR PLUMBING PLAN - AREA B
P113	ABOVE FLOOR PLUMBING PLAN - AREA C
P114	ABOVE FLOOR PLUMBING PLAN - AREA D
P120	ROOF PLUMBING PLAN
P501	PLUMBING DETAILS
P601	PLUMBING SCHEDULES
P901	DOMESTIC WATER RISER DIAGRAM
P902	WASTE & VENT RISER DIAGRAMS
P903	STORM RISER DIAGRAM
MECHANICAL	
M001	HVAC TITLE SHEET
M100	OVERALL HVAC PLAN
M101	HVAC PLAN - AREA A
M102	HVAC PLAN - AREA B
M103	HVAC PLAN - AREA C
M104	HVAC PLAN - AREA D
M105	HVAC PLAN - VEHICLE COLD STORAGE & BRINE SHED
M120	ROOF MECHANICAL PLAN
M200	OVERALL MECHANICAL PIPING PLAN
M201	MECHANICAL PIPING PLAN - AREA A
M203	MECHANICAL PIPING PLAN - AREA C
M204	MECHANICAL PIPING PLAN - AREA D
M501	HVAC DETAILS
M601	HVAC SCHEDULES
M602	HVAC SCHEDULES
M901	GAS RISER DIAGRAM
ELECTRICAL	
E000	ELECTRICAL TITLE SHEET
E001	ELECTRICAL SITE PLAN
E100	OVERALL POWER PLAN
E101	FIRST FLOOR POWER PLAN - AREA A
E102	FIRST FLOOR POWER PLAN - AREA B
E103	FIRST FLOOR POWER PLAN - AREA C
E104	FIRST FLOOR POWER PLAN - AREA D
E106	ELECTRICAL PLAN - VEHICLE COLD STORAGE
E107	ELECTRICAL PLAN - EQUIPMENT COLD STORAGE
E120	ROOF POWER PLAN
E200	OVERALL LIGHTING PLAN
E201	FIRST FLOOR LIGHTING PLAN - AREA A
E202	FIRST FLOOR LIGHTING PLAN - AREA B
E203	FIRST FLOOR LIGHTING PLAN - AREA C
E204	FIRST FLOOR LIGHTING PLAN - AREA D
E300	OVERALL SYSTEMS PLAN
E301	FIRST FLOOR SYSTEMS PLAN - AREA A
E302	FIRST FLOOR SYSTEMS PLAN - AREA B
E303	FIRST FLOOR SYSTEMS PLAN - AREA C
E304	FIRST FLOOR SYSTEMS PLAN - AREA D
E305	ROOF SYSTEMS PLAN
E501	ELECTRICAL DETAILS
E801	ELECTRICAL SCHEDULES
E802	ELECTRICAL SCHEDULES
E803	PANEL SCHEDULES
E804	PANEL SCHEDULES
E805	PANEL SCHEDULES
E806	PANEL SCHEDULES
E807	PANEL SCHEDULES
E808	PANEL SCHEDULES
E809	PANEL SCHEDULES
E901	ELECTRICAL DIAGRAMS

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REVISIONS

DATE	DESCRIPTION

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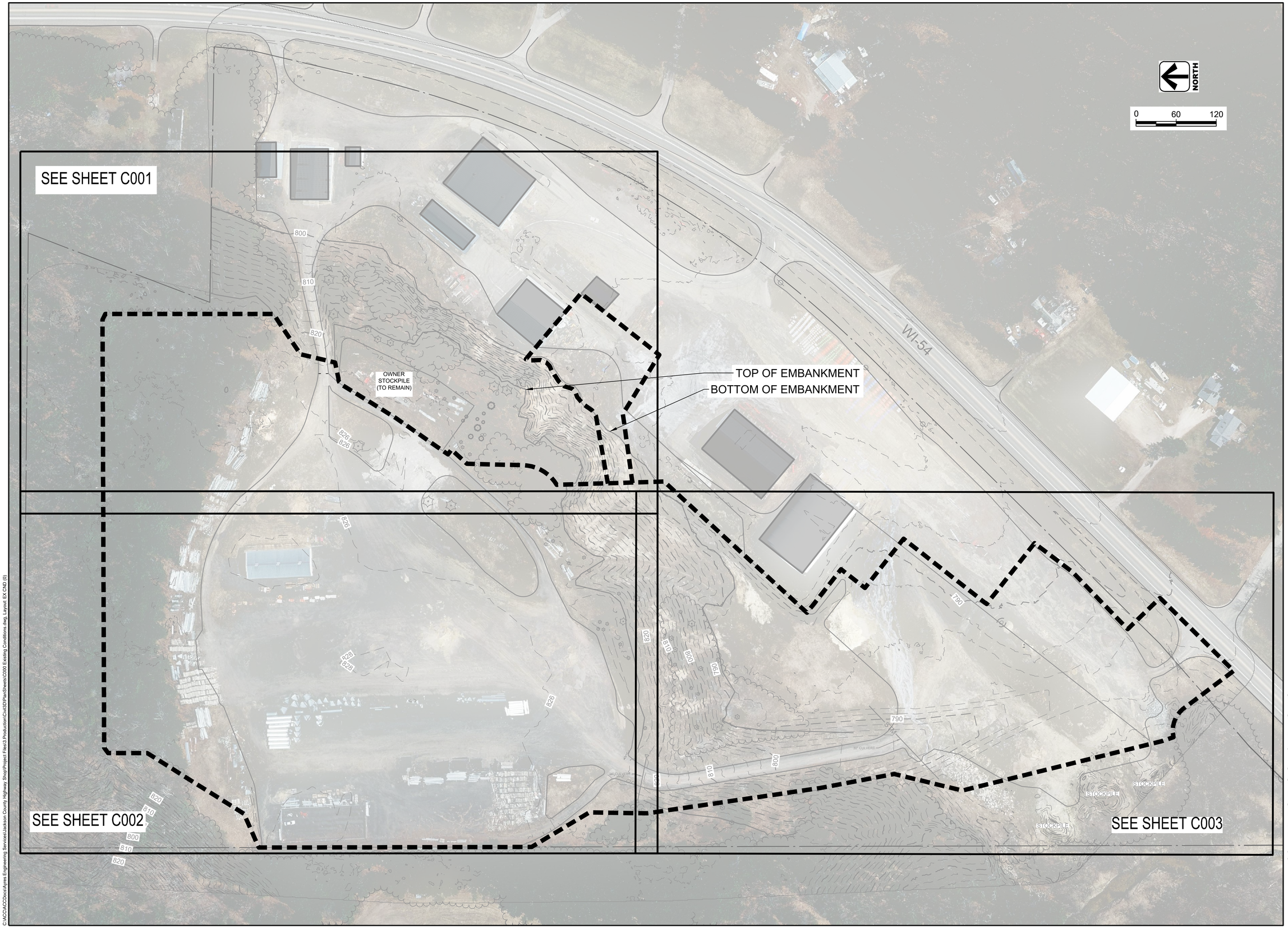
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BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
TITLE SHEET - CONSTRUCTION DOCUMENTS

SHEET
A000



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AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
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SHEET TITLE
Existing Conditions - Overall

SHEET
C000

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EXST. BLDG
EXISTING BUILDING
EXISTING BUILDING
EXISTING BUILDING
EXISTING BUILDING
EXISTING BUILDING
EXISTING BUILDING
ASPHALT SURFACE
800
810
820
826
826
BOTTOM OF EMBANKMENT
TOP OF EMBANKMENT
TRANSITION FROM ASPHALT TO GRAVEL
OWNER STOCKPILE (TO REMAIN)
GRAVEL SURFACE
NORTH
0 30 60

EXISTING CONDITIONS LEGEND

OVERHEAD ELECTRIC	OH	NON-SURFACED ROADWAY	GRAVEL, DIRT, ETC.	CONTOURS	100 99
UTILITY POLES	POWER POLE, W/ MAST ARM, W/ LIGHT	EXISTING BUILDING	OVERHANG	CONTROL BOX	
TELEPHONE POLE		RIGHT OF WAY	ROW MARKER, IRON PIPE	METER	
LIGHT POLE	W/ MAST ARM	PROPERTY LINE	UP	SIGN	
TREES	DECIDUOUS, CONIFEROUS	DITCH			
TREE LINE					

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EXISTING CONDITIONS LEGEND

OVERHEAD ELECTRIC	OH	NON-SURFACED ROADWAY	GRAVEL, DIRT, ETC.	CONTOURS	100 99
UTILITY POLES	POWER POLE, W/ MAST ARM, W/ LIGHT	EXISTING BUILDING	OVERHANG	CONTROL BOX	
TELEPHONE POLE		RIGHT OF WAY	ROW MARKER, IRON PIPE	METER	
LIGHT POLE	W/ MAST ARM	PROPERTY LINE	LP	SIGN	
TREES	DECIDUOUS, CONIFEROUS	DITCH			
TREE LINE					

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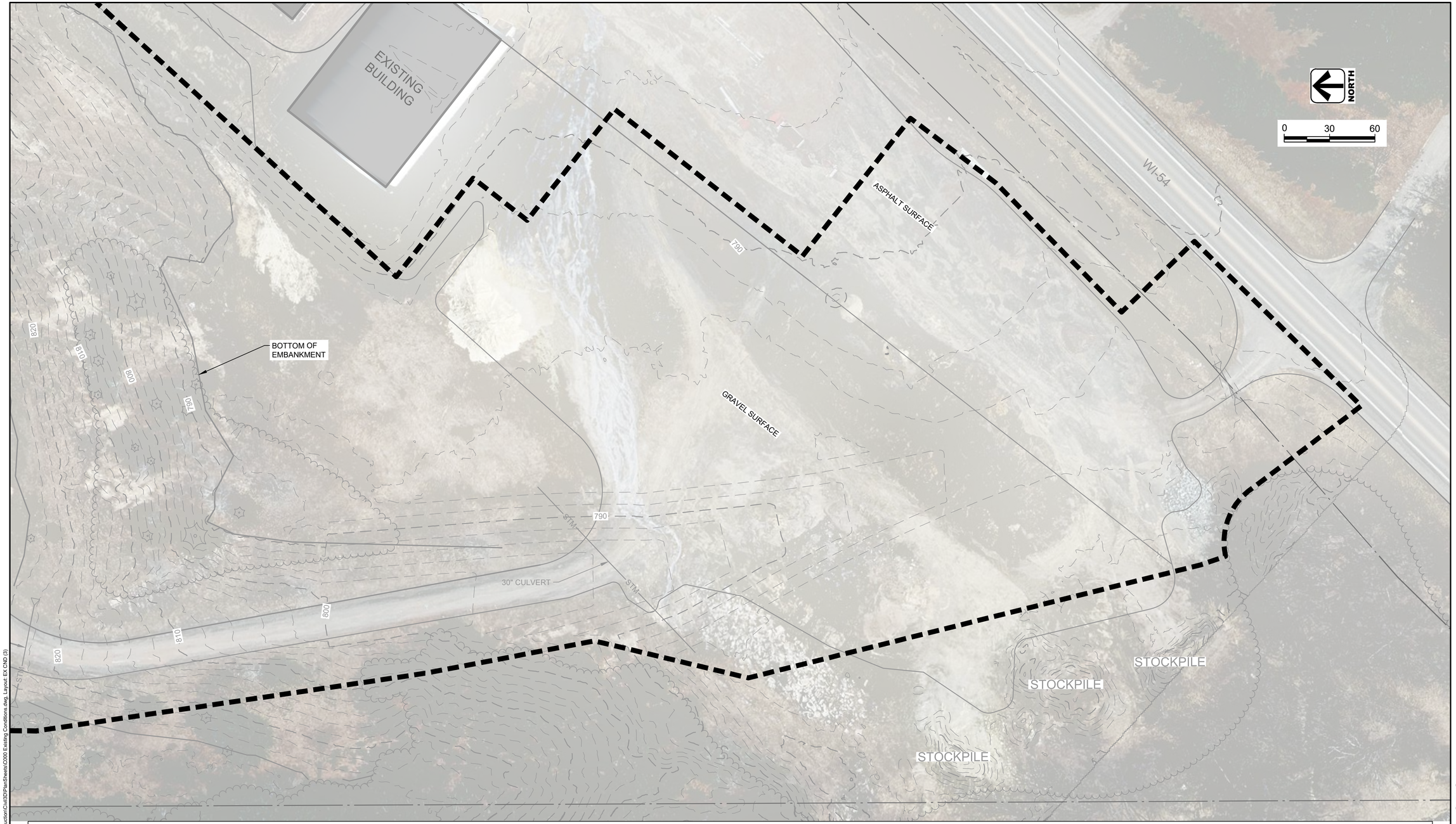
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SHEET TITLE
Existing Conditions

SHEET
C002

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EXISTING CONDITIONS LEGEND

OVERHEAD ELECTRIC	OH	NON-SURFACED ROADWAY	GRAVEL, DIRT, ETC.	CONTOURS	100 / 99
UTILITY POLES	POWER POLE, W/ MAST ARM, W/ LIGHT	EXISTING BUILDING	OVERHANG	CONTROL BOX	
TELEPHONE POLE		RIGHT OF WAY	ROW MARKER, IRON PIPE	METER	
LIGHT POLE	W/ MAST ARM	PROPERTY LINE	PP	SIGN	
TREES	DECIDUOUS, CONIFEROUS	DITCH			
TREE LINE					

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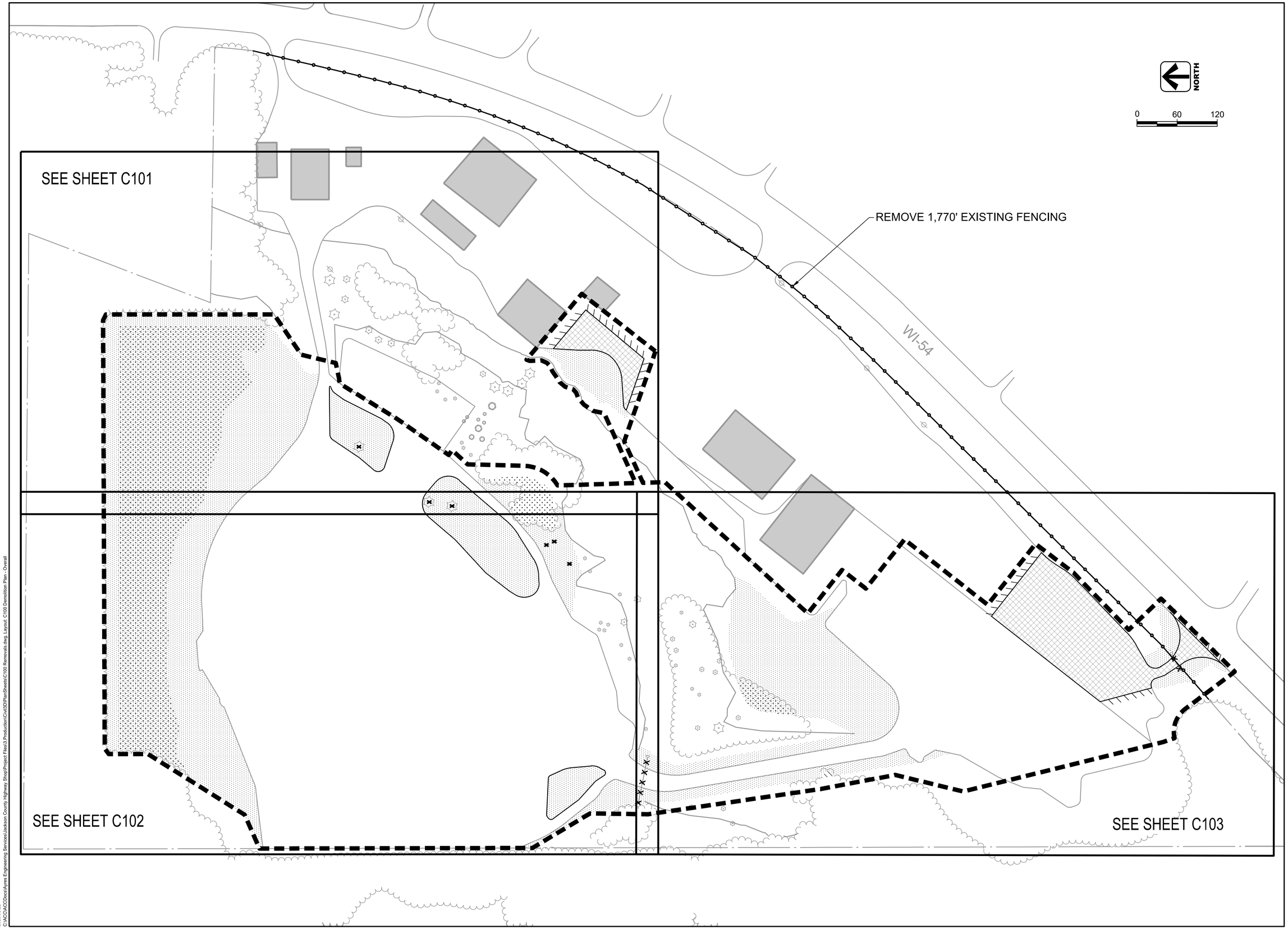
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23.1964.00

DATE
06.22.2026

SHEET TITLE
Existing Conditions

SHEET
C003

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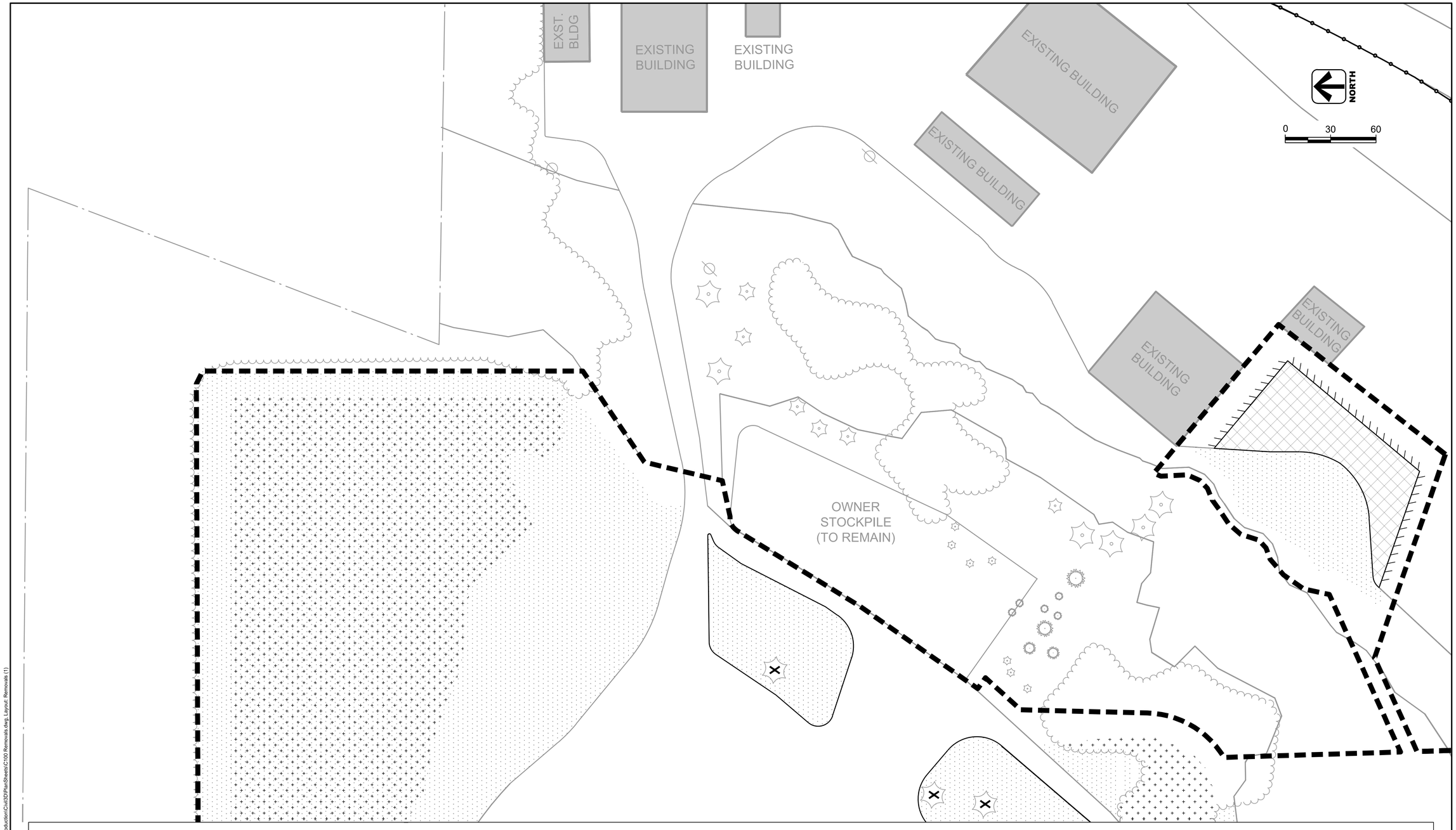
AYRES DESIGN PROJECT NUMBER
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DATE
06.22.2026

SHEET TITLE
Demolition Plan - Overall

SHEET
C100

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2026.06.22
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DEMOLITION LEGEND

- REMOVE ASPHALT
- REMOVE GRASS AND SALVAGE TOPSOIL
- SITE CLEARING
- PROJECT LIMITS
- REMOVE EXISTING FENCE
- REMOVE EXISTING CULVERT X X X X X X X X
- SAWCUT PAVEMENT
- CLEAR AND GRUB TREE X

PROTECTION NOTES

PROTECT ALL UNDERGROUND UTILITIES AND UTILITY STRUCTURES THAT ARE NOT SHOWN AS REMOVED OR ABANDONED IN PLACE

PROTECT ALL REMAINING TREES AND MULCH. DO NOT STORE EQUIPMENT OR MATERIALS WITHIN DRIP LINES OF REMAINING TREES

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SET TYPE
BID PACKAGE #2

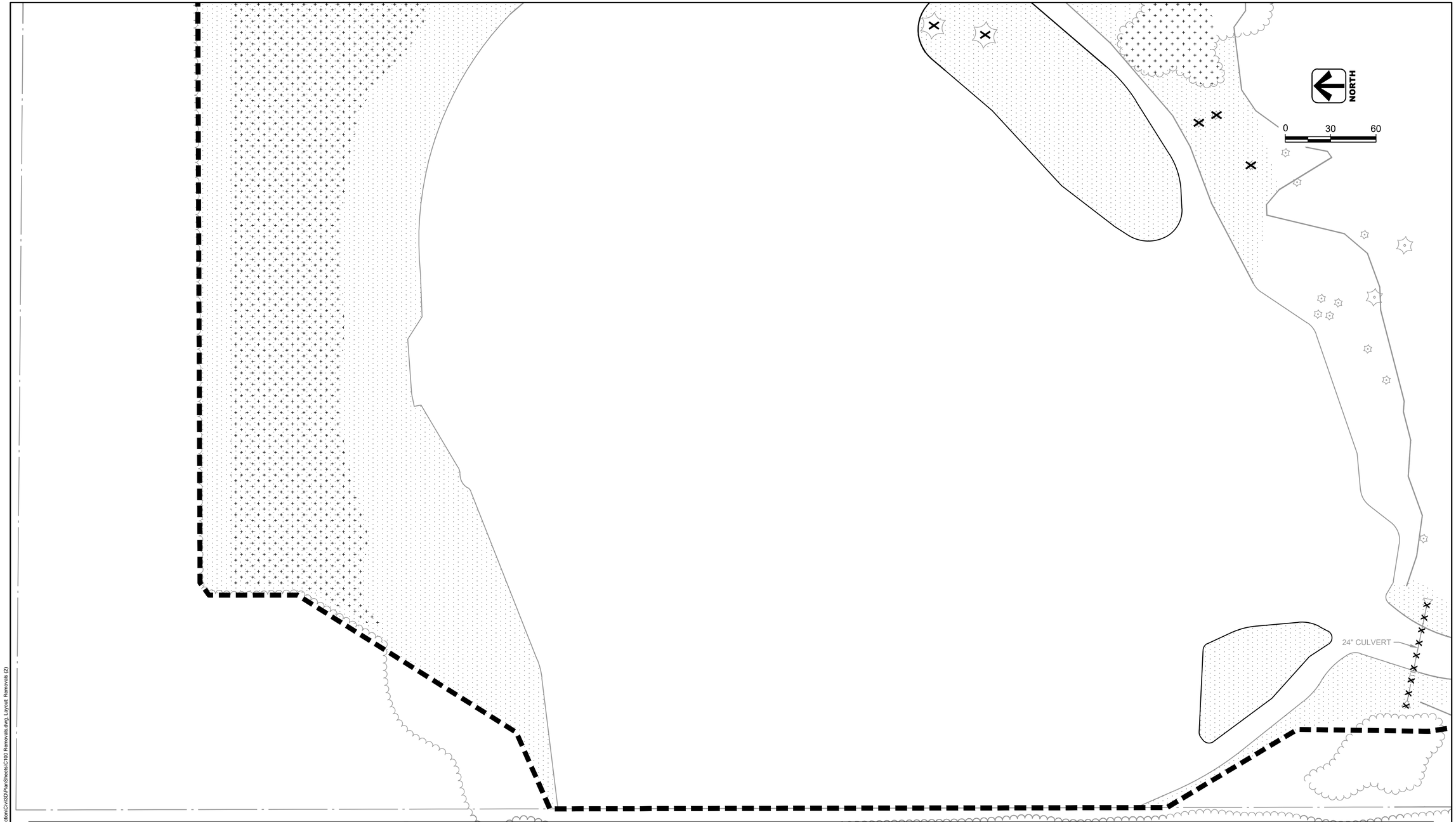
AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
Demolition Plan

SHEET
C101

AA-Standard.stb
2026.06.22
C:\ACCACCDocs\Ayres Engineering Services\Jackson County Highway Shop\Project Files\3 Production\Civil\3D\PlanSheets\C100 Removals.dwg, Layout: Removals (1)



DEMOLITION LEGEND

REMOVE ASPHALT

REMOVE GRASS AND SALVAGE TOPSOIL

SITE CLEARING

PROJECT LIMITS

REMOVE EXISTING FENCE

REMOVE EXISTING CULVERT X X X X X X X X

SAWCUT PAVEMENT

CLEAR AND GRUB TREE X

PROTECTION NOTES

PROTECT ALL UNDERGROUND UTILITIES AND UTILITY STRUCTURES THAT ARE NOT SHOWN AS REMOVED OR ABANDONED IN PLACE

PROTECT ALL REMAINING TREES AND MULCH. DO NOT STORE EQUIPMENT OR MATERIALS WITHIN DRIP LINES OF REMAINING TREES

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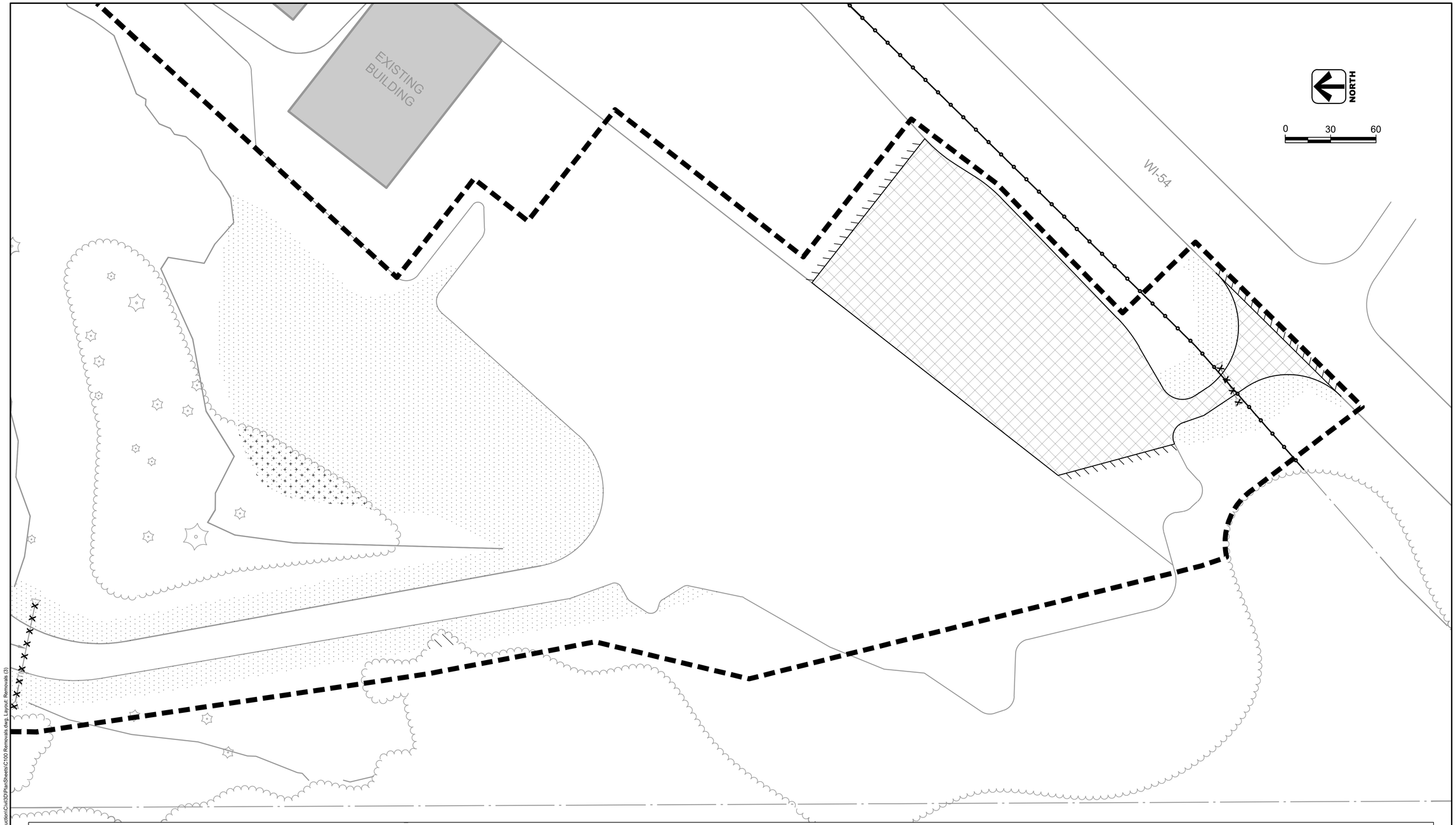
AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
Demolition Plan

SHEET
C102

AA-Standard.stb
2026.06.22
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DEMOLITION LEGEND

REMOVE ASPHALT

REMOVE GRASS AND SALVAGE TOPSOIL

SITE CLEARING

PROJECT LIMITS

REMOVE EXISTING FENCE

REMOVE EXISTING CULVERT x x x x x x x x

SAWCUT PAVEMENT

CLEAR AND GRUB TREE x

PROTECTION NOTES

PROTECT ALL UNDERGROUND UTILITIES AND UTILITY STRUCTURES THAT ARE NOT SHOWN AS REMOVED OR ABANDONED IN PLACE

PROTECT ALL REMAINING TREES AND MULCH. DO NOT STORE EQUIPMENT OR MATERIALS WITHIN DRIP LINES OF REMAINING TREES

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BIDDING
SET TYPE
BID PACKAGE #2

AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
Demolition Plan

SHEET
C103

AA-Standard.stb
2026.06.22
C:\ACCACCDocs\Ayres Engineering Services\Jackson County Highway Shop\Project Files\3.Production\Civil3D\PlanSheets\C100 Removals.dwg, Layout: Removals (3)

20' MANUAL SLIDING GATE

40' MANUAL SLIDING GATE

SEE SHEET C201

GRAVEL STORAGE AREA

EQUIPMENT COLD STORAGE

VEHICLE COLD STORAGE

TRUCK SHOP AND GARAGE

WI-54

CHAIN LINK FENCE
SEE DETAIL 06/C601

40' TRUCK SCALE AND KIOSK BY OTHERS

PROPOSED POND

GRAVEL STORAGE AREA

36' CANTILEVER SLIDING GATE
SEE DETAIL 05/C601

SEE SHEET C202

SEE SHEET C203

NORTH

0 60 120

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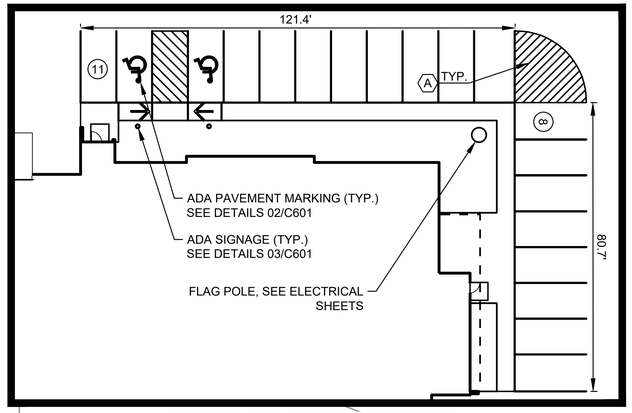
AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
Site Layout - Overall

SHEET
C200

AA-Standard.stb
2026.06.22
C:\ACCACCDocs\Ayres Engineering Services\Jackson County Highway Shop\Project Files\3.Production\Civil3D\PlanSheets\C200 Site Layout Plan.dwg, Layout: Site Layout (4)



DETAIL "A" - SEE SHEET C202

SCALE: 1"=40'

EXST. BLDG

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

NORTH

0 30 60

216.8'

136.6'

36.8'

80.8'

GRAVEL STORAGE AREA

152.6'

10'

R259'

260'

18'

100'

R20'

11.5'

EQUIPMENT COLD STORAGE

TRANSFORMER, SEE ELECTRICAL

OWNER STOCKPILE (TO REMAIN)

BRINE TANKS (BY OTHERS)

BRINE SHED, SEE ARCHITECTURE SHEETS

BRINE SHED WELL

30'

36.9'

113.7'

20'

10'

D

142.3'

SITE LAYOUT LEGEND

LIGHT POLE, SEE ELECTRICAL PLAN		CONCRETE CURB AND GUTTER (TYPES VARY, REFER TO GRADING PLAN PLAN, SEE C400-403).	
ADA PARKING STALL		EDGE OF GRAVEL	
TRAFFIC SIGN		RETAINING WALL	
DITCH BOTTOM		CANOPY COVER LIMITS	
DITCH FLOW			

SITE LAYOUT NOTES

(A) PAVEMENT MARKINGS (YELLOW)

(B) STRUCTURAL STOOP, SEE STRUCTURAL PLAN

(C) PUMP HOUSE PACKAGE, SEE PLUMBING PLANS

(D) PROPOSED ASPHALT SURFACE FOR BRINE SHED

(E) DUMPSTER CONCRETE PAD, SEE STRUCTURAL PLAN

(F) WASTE OIL TANK PAD, SEE STRUCTURAL PLAN

(G) ELECTRICAL EQUIPMENT PAD, SEE ELECTRICAL AND STRUCTURAL PLANS

(H) CONCRETE CURB AND GUTTER DEPRESSION, SEE DETAIL 05/C600

(#) PARKING COUNTS

* RADIUS DIMENSIONS REFER TO EDGE OF PAVEMENT

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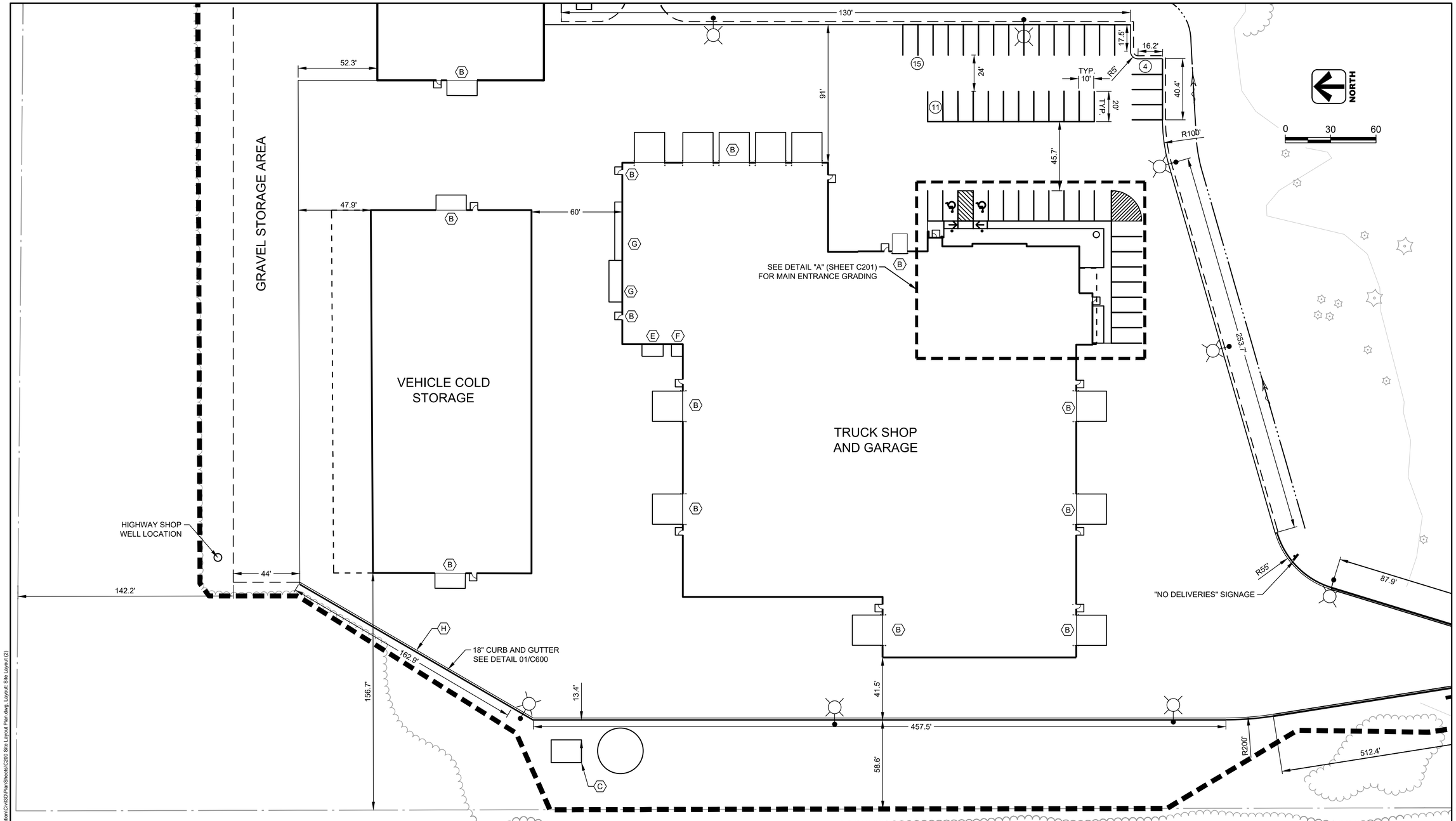
AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
Site Layout

SHEET
C201

AA-Standard.stb
2026.06.22
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SITE LAYOUT LEGEND

- LIGHT POLE, SEE ELECTRICAL PLAN
- ADA PARKING STALL
- TRAFFIC SIGN
- DITCH BOTTOM
- DITCH FLOW
- CONCRETE CURB AND GUTTER (TYPES VARY, REFER TO GRADING PLAN PLAN, SEE C400-403).
- EDGE OF GRAVEL
- RETAINING WALL
- CANOPY COVER LIMITS

SITE LAYOUT NOTES

- (A) PAVEMENT MARKINGS (YELLOW)
- (B) STRUCTURAL STOOP, SEE STRUCTURAL PLAN
- (C) PUMP HOUSE PACKAGE, SEE PLUMBING PLANS
- (D) PROPOSED ASPHALT SURFACE FOR BRINE SHED
- (E) DUMPSTER CONCRETE PAD, SEE STRUCTURAL PLAN
- (F) WASTE OIL TANK PAD, SEE STRUCTURAL PLAN
- (G) ELECTRICAL EQUIPMENT PAD, SEE ELECTRICAL AND STRUCTURAL PLANS
- (H) CONCRETE CURB AND GUTTER DEPRESSION, SEE DETAIL 05/C600
- (#) PARKING COUNTS

* RADIUS DIMENSIONS REFER TO EDGE OF PAVEMENT

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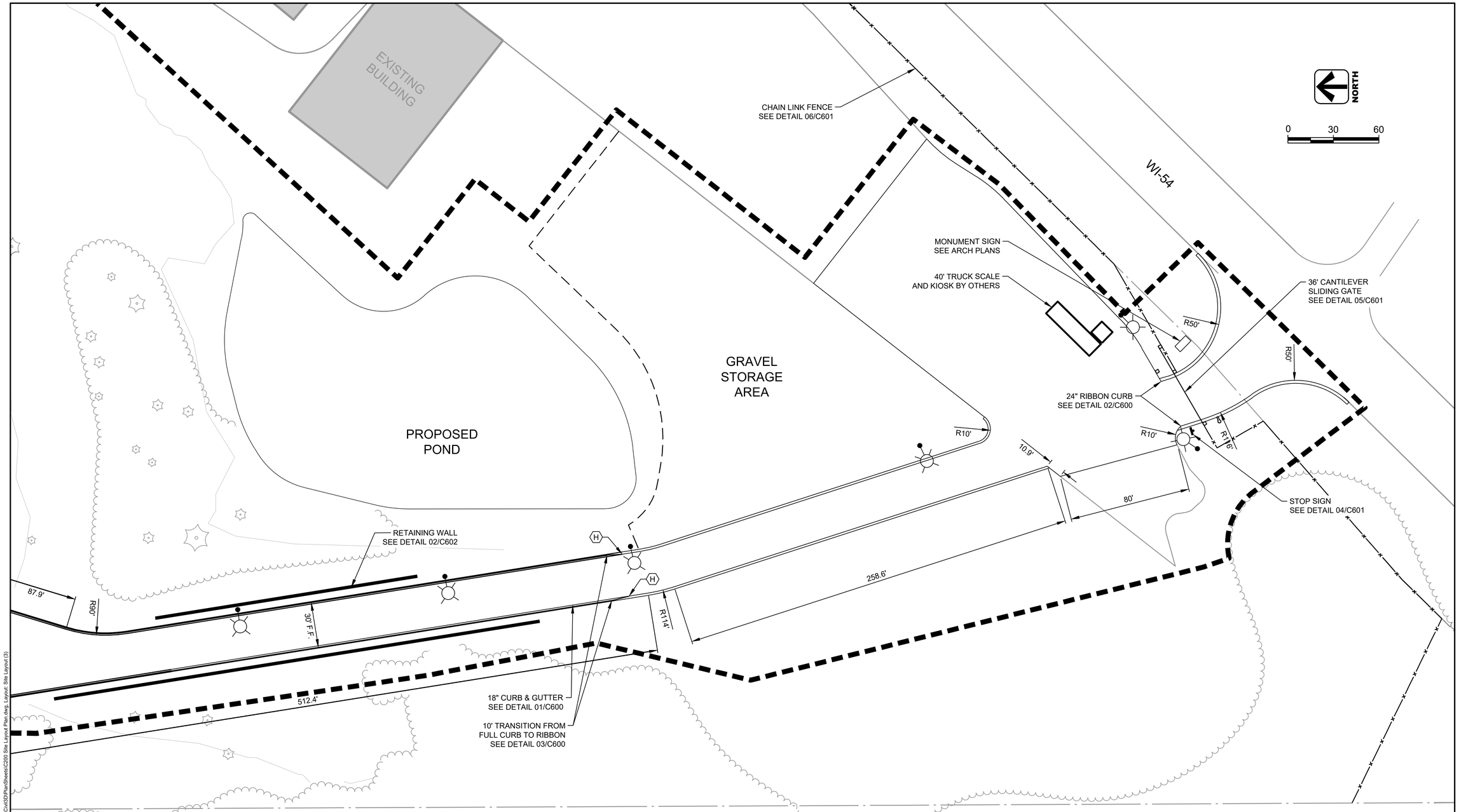
AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
Site Layout

SHEET
C202

AA-Standard.stb
2026.06.22
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SITE LAYOUT LEGEND

- LIGHT POLE, SEE ELECTRICAL PLAN
- ADA PARKING STALL
- TRAFFIC SIGN
- DITCH BOTTOM
- DITCH FLOW
- CONCRETE CURB AND GUTTER (TYPES VARY, REFER TO GRADING PLAN PLAN, SEE C400-403).
- EDGE OF GRAVEL
- RETAINING WALL
- CANOPY COVER LIMITS

SITE LAYOUT NOTES

(A) PAVEMENT MARKINGS (YELLOW)

(B) STRUCTURAL STOOP, SEE STRUCTURAL PLAN

(C) PUMP HOUSE PACKAGE, SEE PLUMBING PLANS

(D) PROPOSED ASPHALT SURFACE FOR BRINE SHED

(E) DUMPSTER CONCRETE PAD, SEE STRUCTURAL PLAN

(F) WASTE OIL TANK PAD, SEE STRUCTURAL PLAN

(G) ELECTRICAL EQUIPMENT PAD, SEE ELECTRICAL AND STRUCTURAL PLANS

(H) CONCRETE CURB AND GUTTER DEPRESSION, SEE DETAIL 05/C600

(#) PARKING COUNTS

* RADIUS DIMENSIONS REFER TO EDGE OF PAVEMENT

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WARNING

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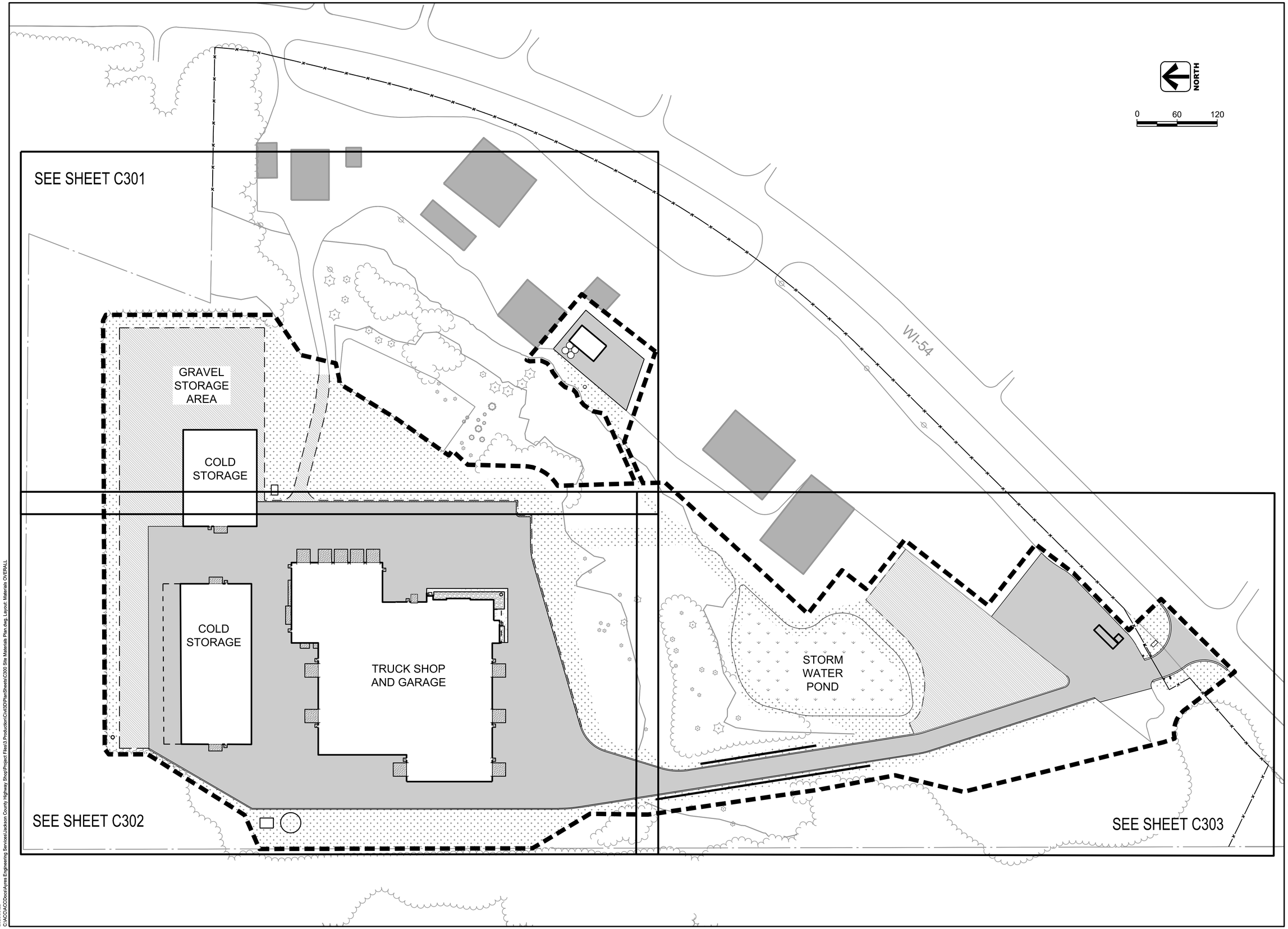
AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
Site Layout

SHEET
C203

AA-Standard.stb
2026.06.22
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BID PACKAGE #2

AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
Site Materials Plan - Overall

SHEET
C300

AA-Standard.stb
2026.06.22
C:\ACCACDDocs\Ayres Engineering Services\Jackson County Highway Shop\Project Files\3.Production\Civil3D\PlanSheets\C300 Site Materials Plan.dwg, Layout: Materials OVERALL

EXST. BLDG

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

NORTH

0 30 60

GRAVEL STORAGE AREA

COLD STORAGE

OWNER STOCKPILE (TO REMAIN)

SITE MATERIAL LEGEND AND NOTES

HEAVY DUTY ASPHALT PAVEMENT SEE DETAIL 01/C601		TURF REPLACEMENT		CONCRETE APRONS	
GRAVEL SURFACING (10")		ROCK MULCH SEE DETAIL 01/C602		CONSTRUCTION LIMITS	
CONCRETE SIDEWALK, SEE DETAIL 06/C600		STORM POND SEED MIX		PROPERTY LINE	

BUILDING CANOPY LIMITS

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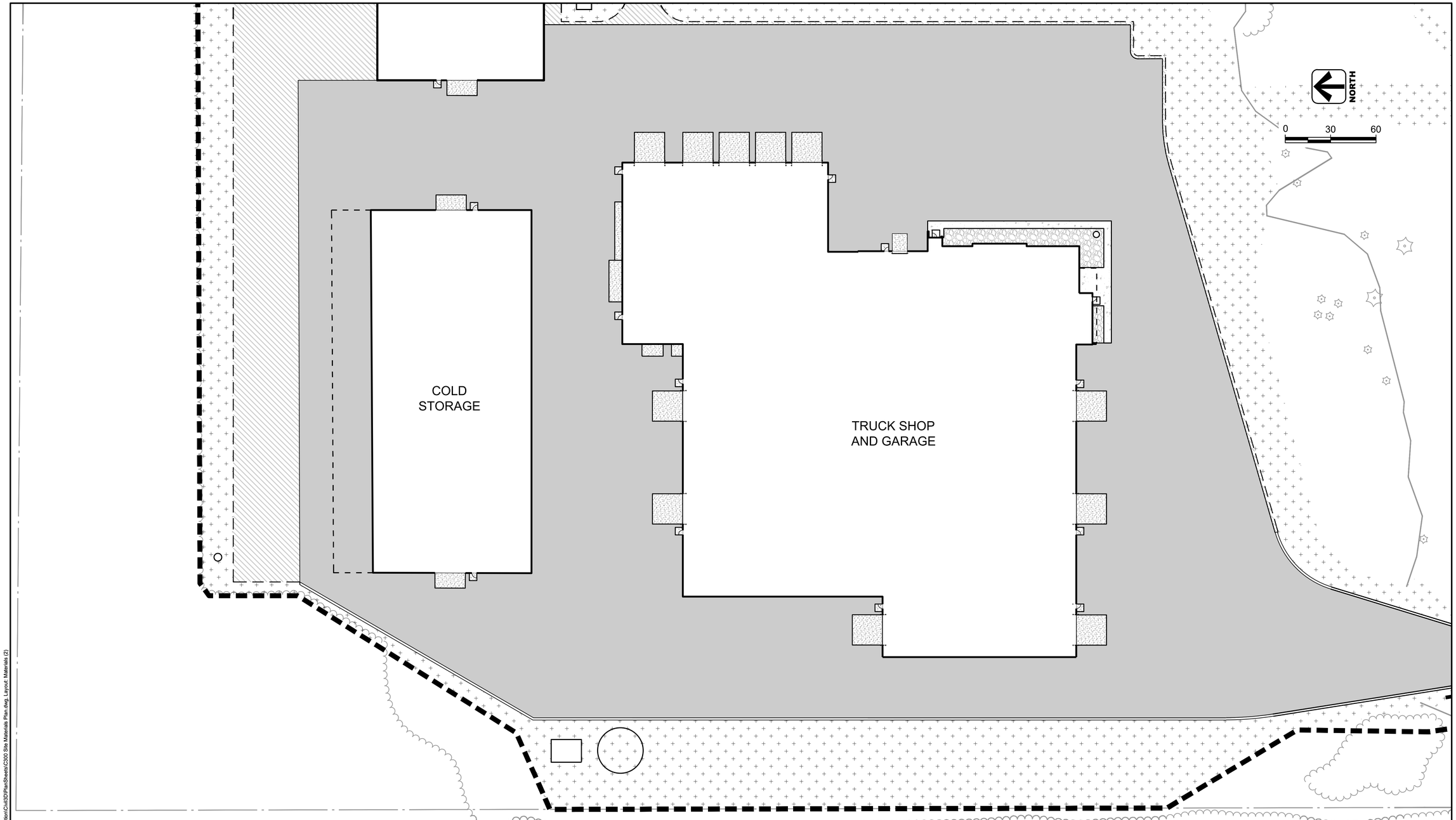
AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
Site Materials Plan

SHEET
C301

AA-Standard stb
2026.06.22
C:\ACDACCDocs\Ayres Engineering Services\Jackson County Highway Shop\Project Files\3 Production\Civil\3D\PlanSheets\C300 Site Materials Plan.dwg, Layout: Materials (1)



SITE MATERIAL LEGEND AND NOTES

HEAVY DUTY ASPHALT PAVEMENT SEE DETAIL 01/C601		TURF REPLACEMENT		CONCRETE APRONS	
GRAVEL SURFACING (10")		ROCK MULCH SEE DETAIL 01/C602		CONSTRUCTION LIMITS	
CONCRETE SIDEWALK, SEE DETAIL 06/C600		STORM POND SEED MIX		PROPERTY LINE	

BUILDING CANOPY LIMITS

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SUBMISSION
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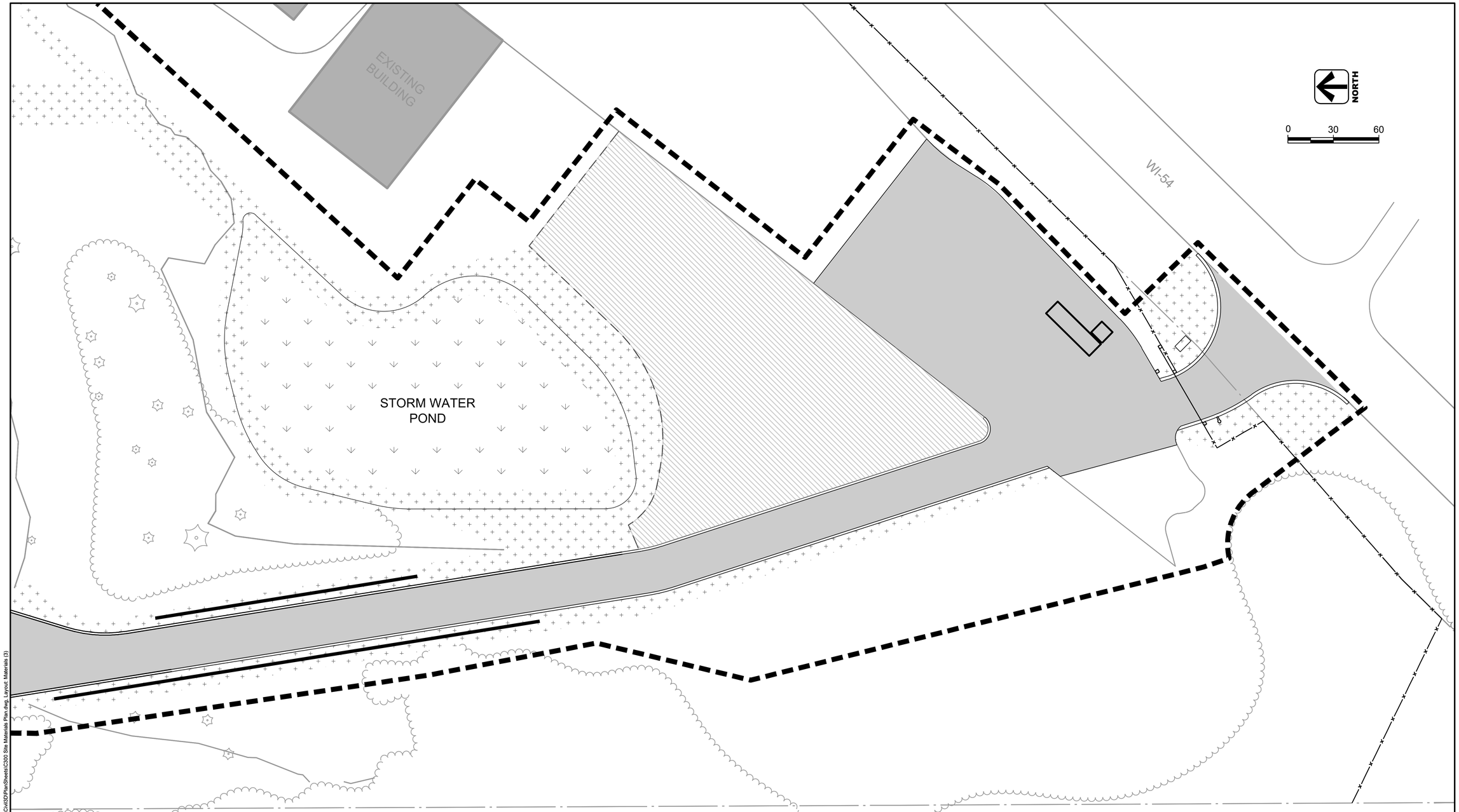
AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
Site Materials Plan

SHEET
C302

AA-Standard.stb
2026.06.22
C:\ACCACCDocs\Ayres Engineering Services\Jackson County Highway Shop\Project Files\3.Production\Civil3D\PlanSheets\C300 Site Materials Plan.dwg, Layout: Materials (2)



SITE MATERIAL LEGEND AND NOTES

HEAVY DUTY ASPHALT PAVEMENT SEE DETAIL 01/C601		TURF REPLACEMENT		CONCRETE APRONS		BUILDING CANOPY LIMITS	
GRAVEL SURFACING (10")		ROCK MULCH SEE DETAIL 01/C602		CONSTRUCTION LIMITS			
CONCRETE SIDEWALK, SEE DETAIL 06/C600		STORM POND SEED MIX		PROPERTY LINE			

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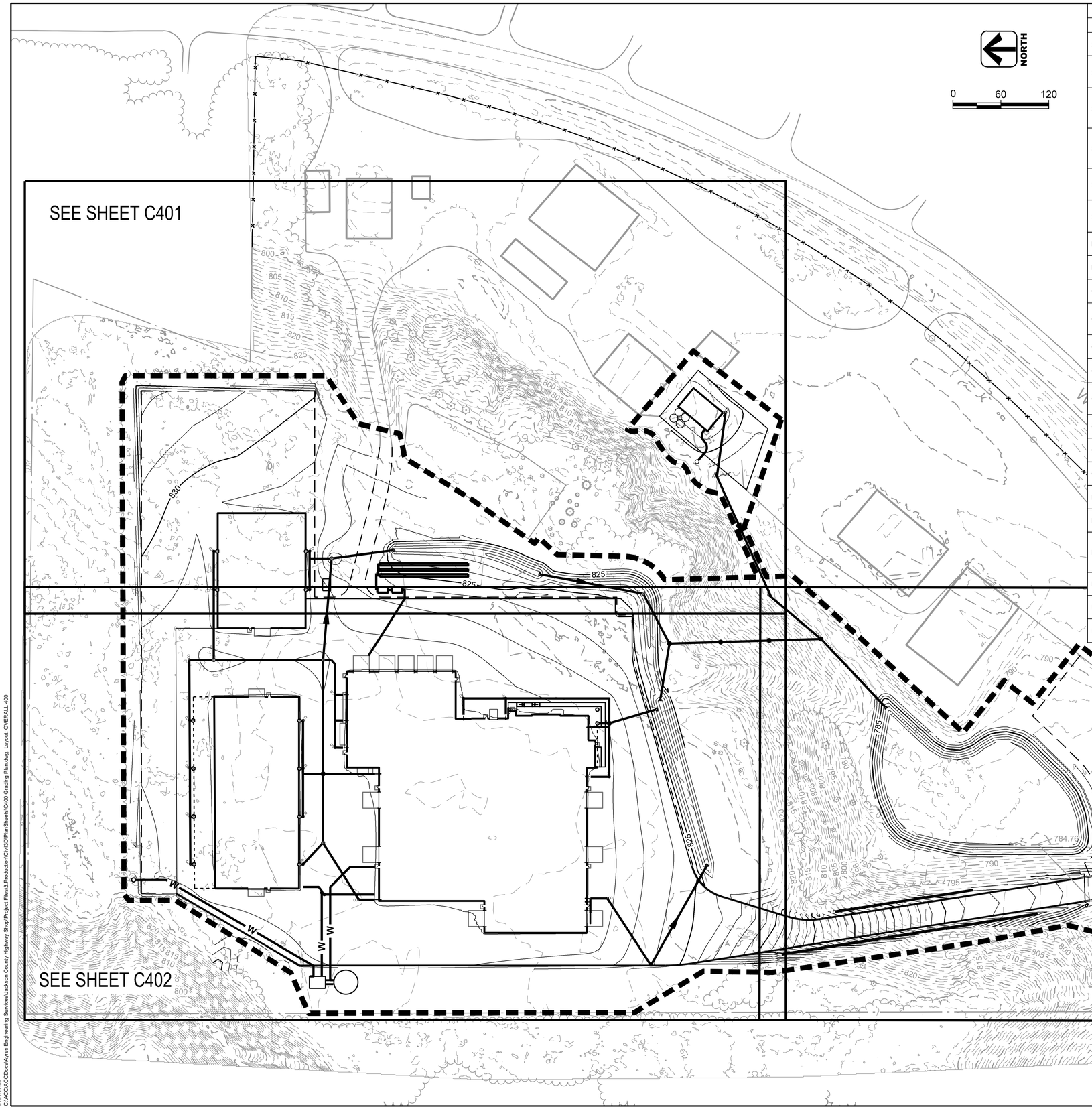
AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
Site Materials Plan

SHEET
C303

AA-Standard.stb
2026.06.22
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STORM SEWER STRUCTURES

NAME	CENTER OF STRUCTURE	STRUCTURE	CASTING	STRUCTURE ELEVATIONS	PIPE INVERTS
A1	N: 90,229.527 E: 81,802.231	12" A.E.			N 821.99' (24" STM HDPE)
A2	N: 90,307.576 E: 81,791.979	MH 4-FT	B6	RIM: 825.81 SUMP ELEVATION: 822.23	W 822.40' (24" STM HDPE) N 823.63' (8" STM PVC) S 822.30' (24" STM HDPE)
A3	N: 90,318.360 E: 81,664.779	MH 4-FT	C	RIM: 827.62 SUMP ELEVATION: 823.21	W 823.71' (18" STM HDPE) S 824.38' (10" STM PVC) N 823.71' (15" STM HDPE) E 823.21' (24" STM HDPE)
A4	N: 90,318.361 E: 81,522.286	MH 4-FT	J	RIM: 828.51 SUMP ELEVATION: 824.28	W 824.28' (18" STM HDPE) S 825.75' (8" STM PVC) N 825.09' (8" STM PVC) E 824.28' (18" STM HDPE)
A5	N: 90,318.362 E: 81,436.021	MH 4-FT	C	RIM: 828.08 SUMP ELEVATION: 824.43	SW 825.41' (8" STM PVC) NW 825.58' (6" STM PVC) E 824.58' (18" STM HDPE)
A6	N: 90,455.200 E: 81,664.779	MH 4-FT	C	RIM: 827.48 SUMP ELEVATION: 823.83	N 824.81' (10" STM PVC) E 824.97' (8" STM PVC) S 824.39' (15" STM HDPE)
B1	N: 89,837.183 E: 81,408.637	12" A.E.			NW 821.68' (18" STM HDPE)
B2	N: 89,907.931 E: 81,282.981	INL 2X2-FT	S	RIM: 826.54 SUMP ELEVATION: 822.26	NE 822.93' (10" STM PVC) SE 822.26' (18" STM HDPE)
C1	N: 89,613.431 E: 81,604.809	12" A.E.			NE 783.00' (24" STM HDPE)
C2	N: 89,695.129 E: 81,691.216	MH 4-FT	J	RIM: 790.45 SUMP ELEVATION: 786.56	N 786.66' (24" STM HDPE) NE 787.86' (6" STM HDPE) SW 786.56' (24" STM HDPE)
C3	N: 89,759.995 E: 81,689.233	MH 4-FT	J	RIM: 805.09 SUMP ELEVATION: 789.58	N 797.27' (24" STM HDPE) S 789.58' (24" STM HDPE)
C4	N: 89,820.859 E: 81,687.372	MH 4-FT	J	RIM: 815.04 SUMP ELEVATION: 800.01	N 805.75' (24" STM HDPE) S 800.01' (24" STM HDPE)
C5	N: 89,884.834 E: 81,685.415	MH 4-FT	J	RIM: 825.99 SUMP ELEVATION: 808.63	NE 812.69' (24" STM HDPE) W 819.17' (18" STM HDPE) S 808.63' (24" STM HDPE)
C6	N: 89,896.470 E: 81,614.261	12" A.E.			E 820.61' (18" STM HDPE)
C7	N: 89,917.401 E: 81,747.638	MH 4-FT	B6	RIM: 821.31 SUMP ELEVATION: 815.85	N 817.85' (24" STM HDPE) SW 815.85' (24" STM HDPE)
C8	N: 90,047.952 E: 81,772.508	12" A.E.			S 820.42' (24" STM HDPE)
D1	N: 88,952.815 E: 81,480.513	12" A.E.			NE 782.80' (12" RCP)
D2	N: 88,986.780 E: 81,547.859	12" A.E.			SW 786.55' (12" RCP)
E1	N: 89,960.219 E: 81,585.555	MH 4-FT	J	RIM: 827.90 SUMP ELEVATION: 823.92	W 824.25' (8" STM PVC) N 824.42' (6" STM HDPE) E 824.25' (8" STM PVC) S 823.92' (12" STM HDPE)
E2	N: 89,900.115 E: 81,603.440	12" A.E.			N 822.35' (12" STM HDPE)
F1	N: 89,220.118 E: 81,455.668	12" A.E.			W 783.41' (24" STM HDPE)
F2	N: 89,199.263 E: 81,390.723	12" A.E.			E 783.00' (24" STM HDPE)

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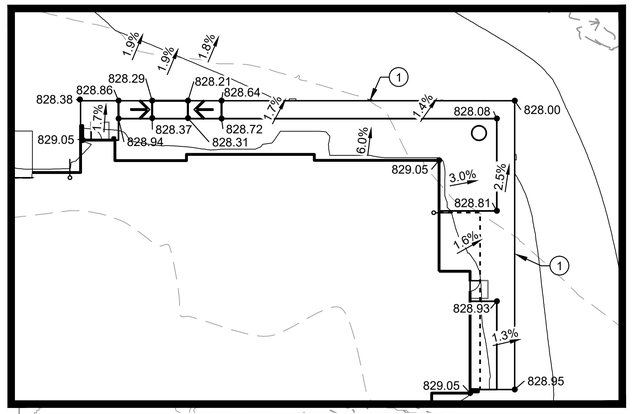
AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
Grading & Utility Plan - Overall

SHEET
C400

AA-Standard.stb
2026.06.22
C:\ACCACCDocs\Ayres Engineering Services\Jackson County Highway Shop\Project Files\3 Production\Civil\3D\PlanSheets\C400 Grading Plan.dwg, Layout: OVERALL 400



DETAIL "A" - SEE SHEET C402

SCALE: 1"=40'

NORTH

0 30 60

OWNER
STOCKPILE
(TO REMAIN)

FFE 829.90

ON-SITE WASTEWATER TREATMENT SYSTEM

CONNECT TO BUILDING
SEE PLUMBING PLANS

FFE
796.70

ME 795.26
ME 796.79
INV.788.60
ME 794.10
ME 794.24
46 LF - 2" WM
ME 793.31
76' - 6" STM @ 1.00%
ME 793.12
166' - 6" STM @ 1.00%

832.10
830.10
33.35%
1.71%
1.70%
1.61%
1.97%
1.56%
2.30%
829.25
828,90
828.42
4.12%
3.48%
0.94%
28' - 8" STM @ 3.00%
0.97%
79' - 24" STM @ 0.40%
6.60%
9' - 6" STM @ 5.00%
48' - 6" STM @ 1.00%
4.49%
1.50%
1.69%
9.95%
4.35%
40' - 6" STM @ 4.00%
88' - 8" STM @ 1.00%
829.25
828.75
826.96
128' - 24" STM @ 0.63%
133' - 24" STM @ 1.93%
8.0%
33.35%
9.9%
18.0%
A1
A2
C8
C7

GRADING AND UTILITY LEGEND AND NOTES

STANDARD CURB AND GUTTER, SEE DTL 1/C600		SPOT ELEVATION (EDGE OF PAVEMENT UNLESS OTHERWISE NOTED)	•XXX.XX
RIBBON CURB, SEE DTL 2/C600		MATCH EXISTING ELEVATION (VERIFY)	XXX.XX ME
		TOP OF CURB ELEVATION	TC XXX.XX
PROJECT LIMITS		SURFACE SLOPE	0.6%
PROPOSED STORM LINE	STM MH, INL, AREA INL, APRON ENDWALL AND RIP RAP		
PROPOSED WATER LINE	W	PROPOSED SANITARY SEWER	SAN

HIGH POINT ELEVATION	•HP 900.00
LOW POINT ELEVATION	•LP 900.00
TOP OF CURB ELEVATION	•TC 900.00
BOTTOM OF WALL ELEVATION	•BW 900.00
TOP OF WALL ELEVATION	•TW 900.00
TOP OF PLAFORM ELEVATION	•TP 900.00
EXISTING CONTOURS	670 / 669
NEW CONTOURS	670 / 669

1. INTEGRAL CURB, SEE DETAIL 04/C600
2. CURB & GUTTER TRANSITION, SEE DETAIL 03/C600
3. CONNECT TO BUILDING, SEE PLUMBING PLANS

PROPOSED CLEANOUT, SEE DETAIL 8/C602

DOWNSPOUT COLLECTOR, SEE DETAIL 6/C602

CURB RAMP SEE DETAIL 07/C600

PROTECTION NOTES

PROTECT ALL UNDERGROUND UTILITIES AND UTILITY STRUCTURES THAT ARE NOT SHOWN AS REMOVED OR ABANDONED IN PLACE

PROTECT ALL REMAINING TREES AND MULCH AND SHALL NOT STORE EQUIPMENT OR MATERIALS WITHIN DRIP LINES OF REMAINING TREES

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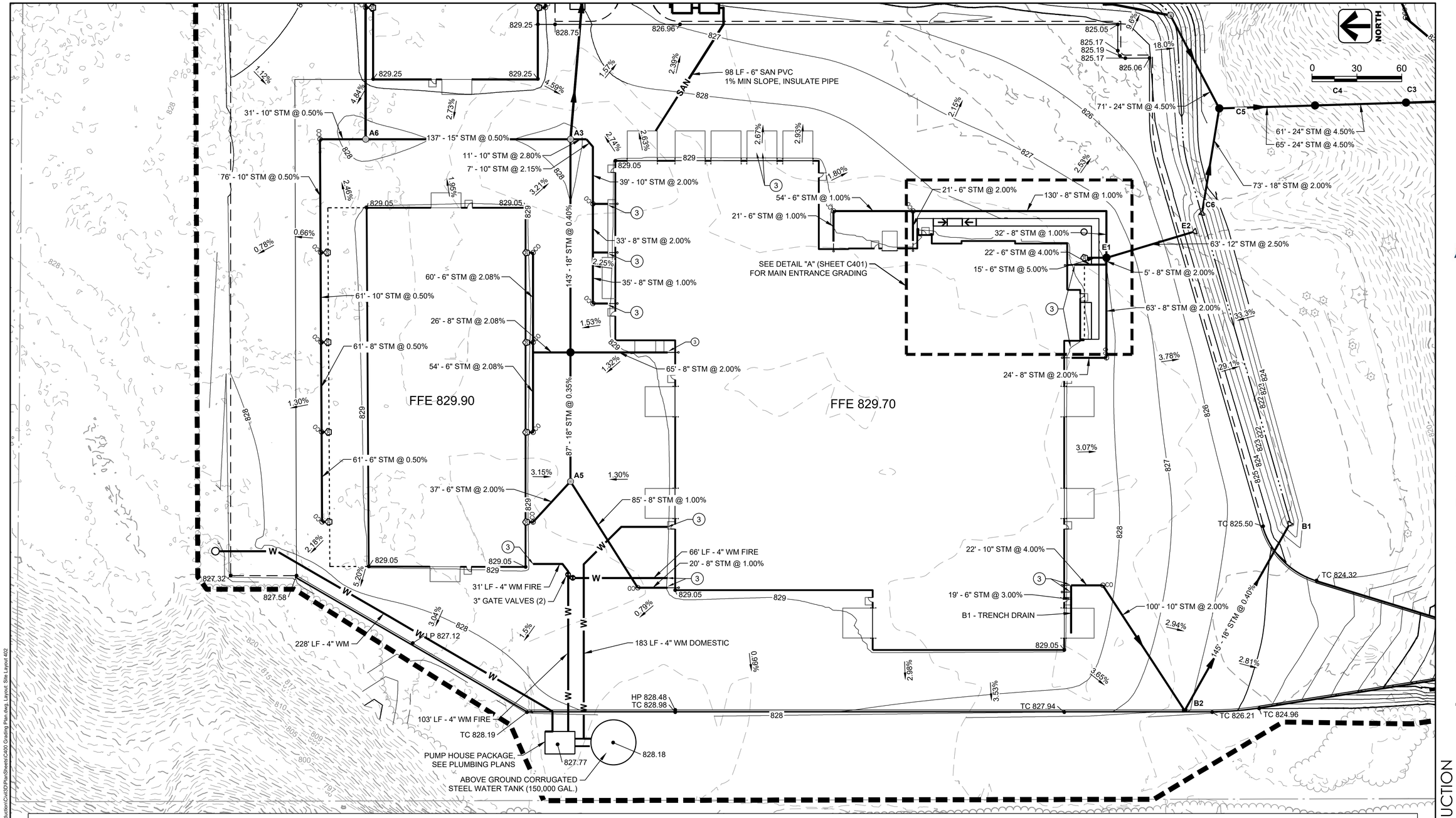
AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
Grading & Utility Plan

SHEET
C401

AA-Standard.stb
2026.06.22
C:\ACCACDDocs\Ayres Engineering Services\Jackson County Highway Shop\Project Files\3.Production\Civil3D\PlanSheets\C400 Grading Plan.dwg, Layout: Site Layout 401



GRADING AND UTILITY LEGEND AND NOTES

STANDARD CURB AND GUTTER, SEE DTL 1/C600	SPOT ELEVATION (EDGE OF PAVEMENT UNLESS OTHERWISE NOTED)	•XXX.XX	HIGH POINT ELEVATION •HP 900.00
RIBBON CURB, SEE DTL 2/C600	MATCH EXISTING ELEVATION (VERIFY)	XXX.XX ME	LOW POINT ELEVATION •LP 900.00
PROJECT LIMITS	TOP OF CURB ELEVATION	TC XXX.XX	TOP OF CURB ELEVATION •TC 900.00
PROPOSED STORM LINE (STM MH, INL, AREA INL, APRON ENDWALL AND RIP RAP)	SURFACE SLOPE	0.6%	BOTTOM OF WALL ELEVATION •BW 900.00
PROPOSED WATER LINE — W —	PROPOSED SANITARY SEWER — SAN —		TOP OF WALL ELEVATION •TW 900.00
			TOP OF PLAFORM ELEVATION •TP 900.00
			EXISTING CONTOURS 670 669
			NEW CONTOURS 670 669

1. INTEGRAL CURB, SEE DETAIL 04/C600
2. CURB & GUTTER TRANSITION, SEE DETAIL 03/C600
3. CONNECT TO BUILDING, SEE PLUMBING PLANS

PROPOSED CLEANOUT, SEE DETAIL 8/C602

DOWNSPOUT COLLECTOR, SEE DETAIL 6/C602

CURB RAMP SEE DETAIL 07/C600

PROTECTION NOTES

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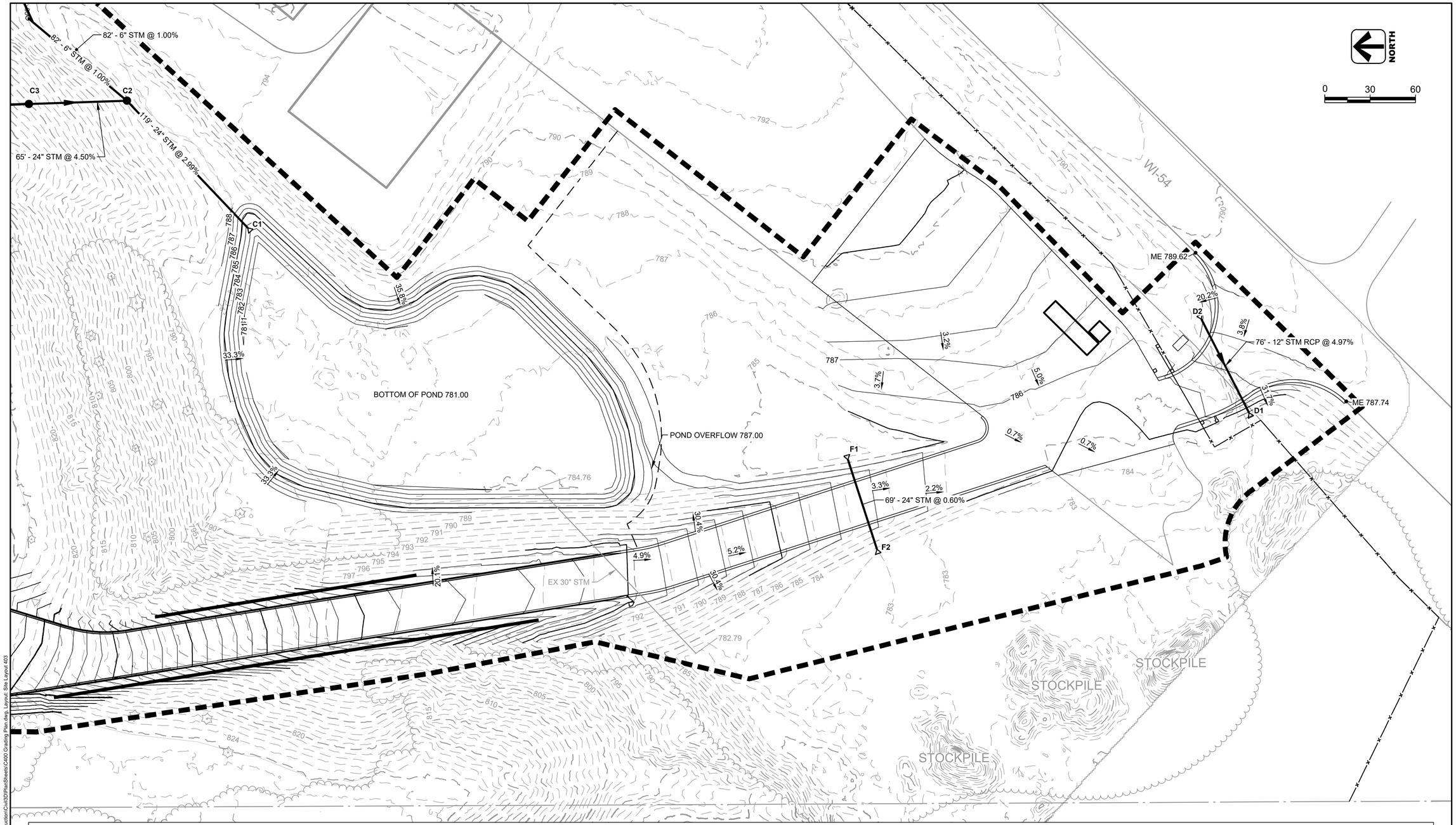
AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
Grading & Utility Plan

SHEET
C402

AA-Standard.stb
2026.06.22
C:\ACCA\ACCDocs\Ayres Engineering Services\Jackson County Highway Shop\Project Files\3.Production\Civil\3DPlanSheets\C400 Grading Plan.dwg, Layout: Site Layout 402



GRADING AND UTILITY LEGEND AND NOTES

STANDARD CURB AND GUTTER, SEE DTL 1/C600	SPOT ELEVATION (EDGE OF PAVEMENT UNLESS OTHERWISE NOTED)	•XXX.XX	HIGH POINT ELEVATION •HP 900.00
RIBBON CURB, SEE DTL 2/C600	MATCH EXISTING ELEVATION (VERIFY)	XXX.XX ME	LOW POINT ELEVATION •LP 900.00
PROJECT LIMITS	TOP OF CURB ELEVATION	TC XXX.XX	TOP OF CURB ELEVATION •TC 900.00
PROPOSED STORM LINE (STM MH, INL, AREA INL, APRON ENDWALL AND RIP RAP)	SURFACE SLOPE	0.6%	BOTTOM OF WALL ELEVATION •BW 900.00
PROPOSED WATER LINE — W —	PROPOSED SANITARY SEWER — SAN —		TOP OF WALL ELEVATION •TW 900.00
			TOP OF PLAFORM ELEVATION •TP 900.00
			EXISTING CONTOURS 670 / 669
			NEW CONTOURS 670 / 669

1. INTEGRAL CURB, SEE DETAIL 04/C600
2. CURB & GUTTER TRANSITION, SEE DETAIL 03/C600
3. CONNECT TO BUILDING, SEE PLUMBING PLANS

PROPOSED CLEANOUT, SEE DETAIL 8/C602

DOWNSPOUT COLLECTOR, SEE DETAIL 6/C602

CURB RAMP SEE DETAIL 07/C600

PROTECTION NOTES

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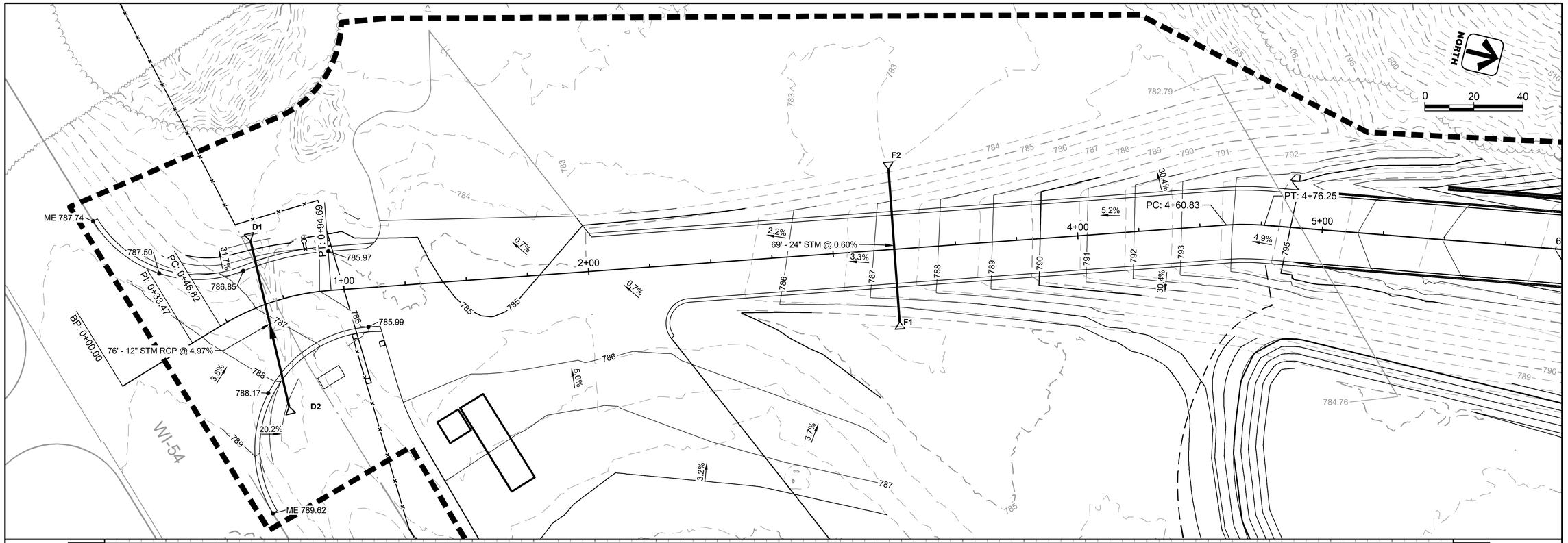
AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

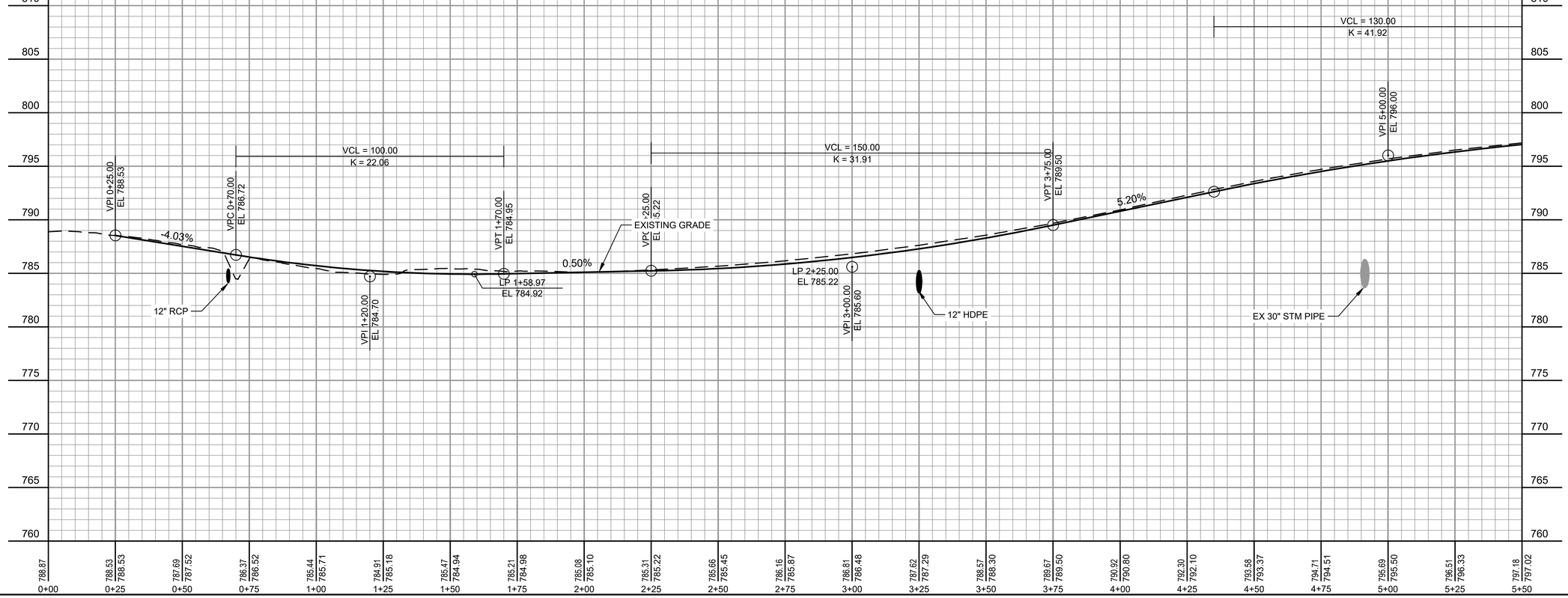
SHEET TITLE
Grading & Utility Plan

SHEET
C403

AA-Standard.stb
2026.06.22
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MAIN DRIVE PROFILE 0+00 - 5+50



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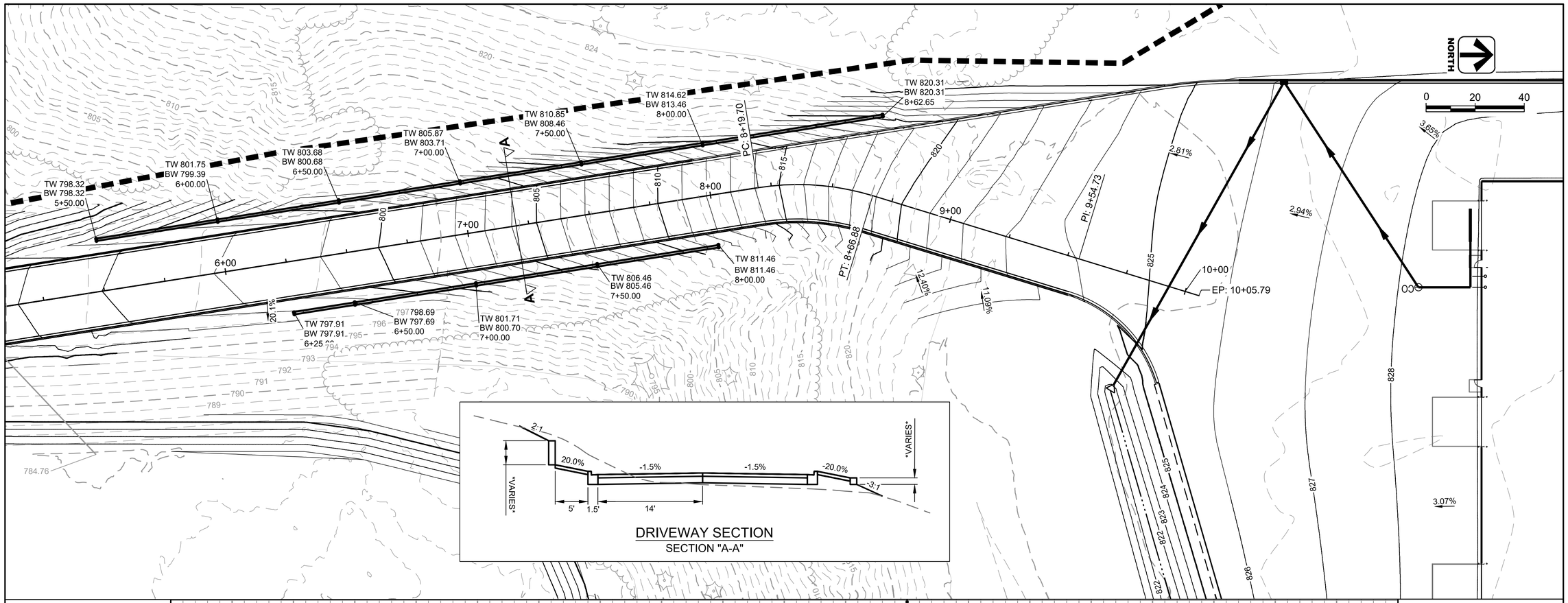
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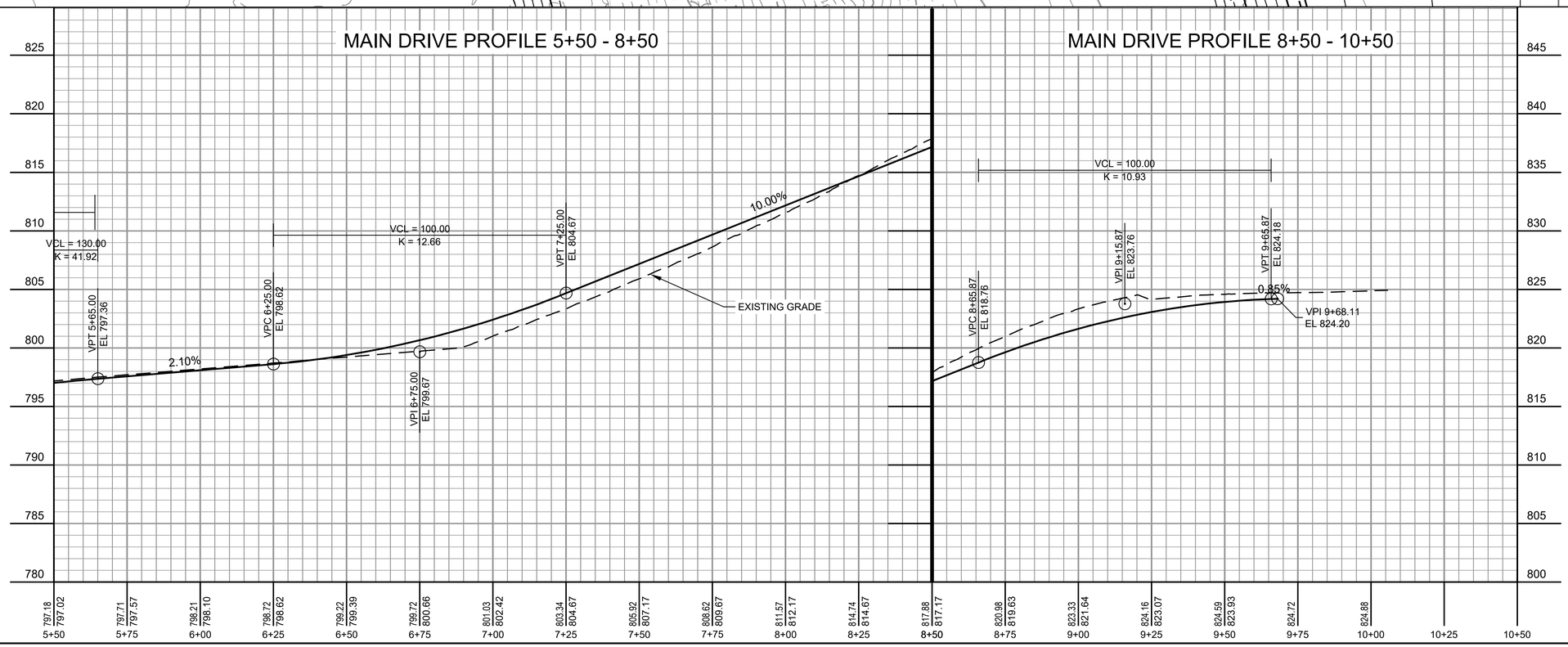
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SHEET TITLE
Grading Plan & Profile

SHEET
C404

AA-Standard.stb
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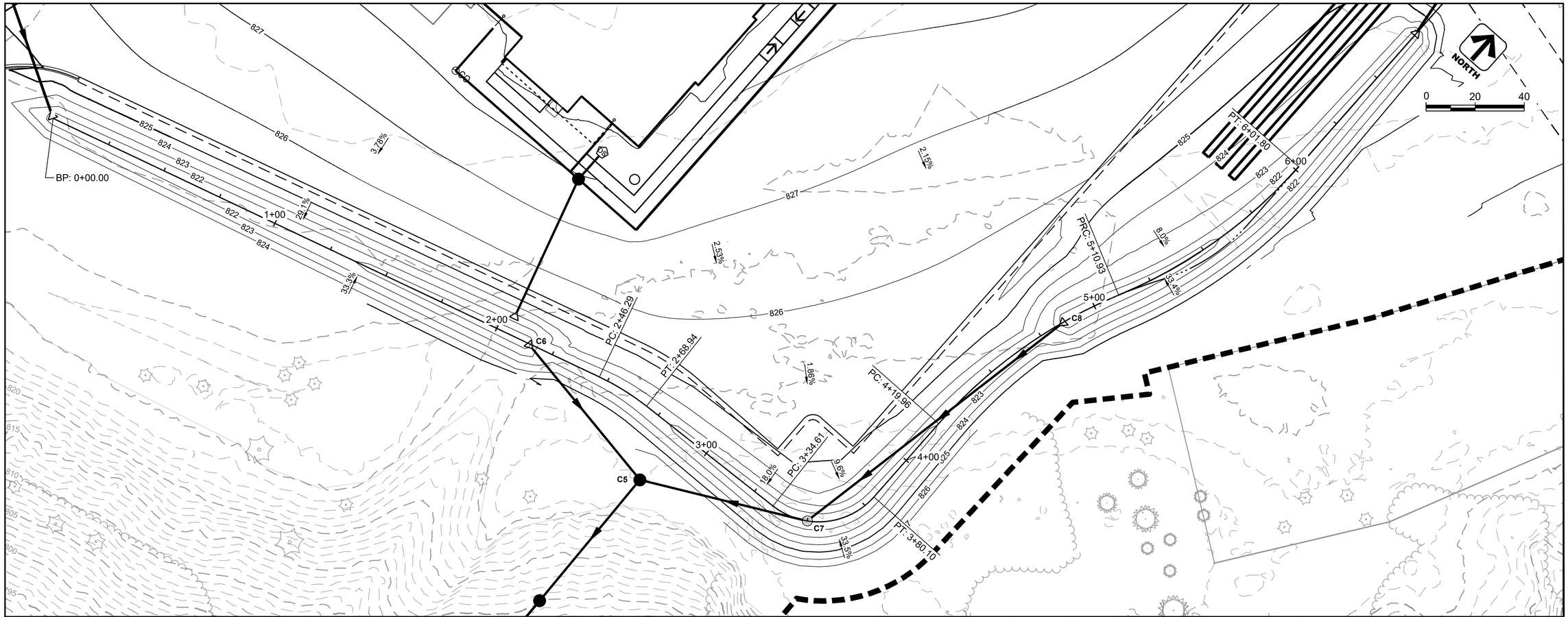
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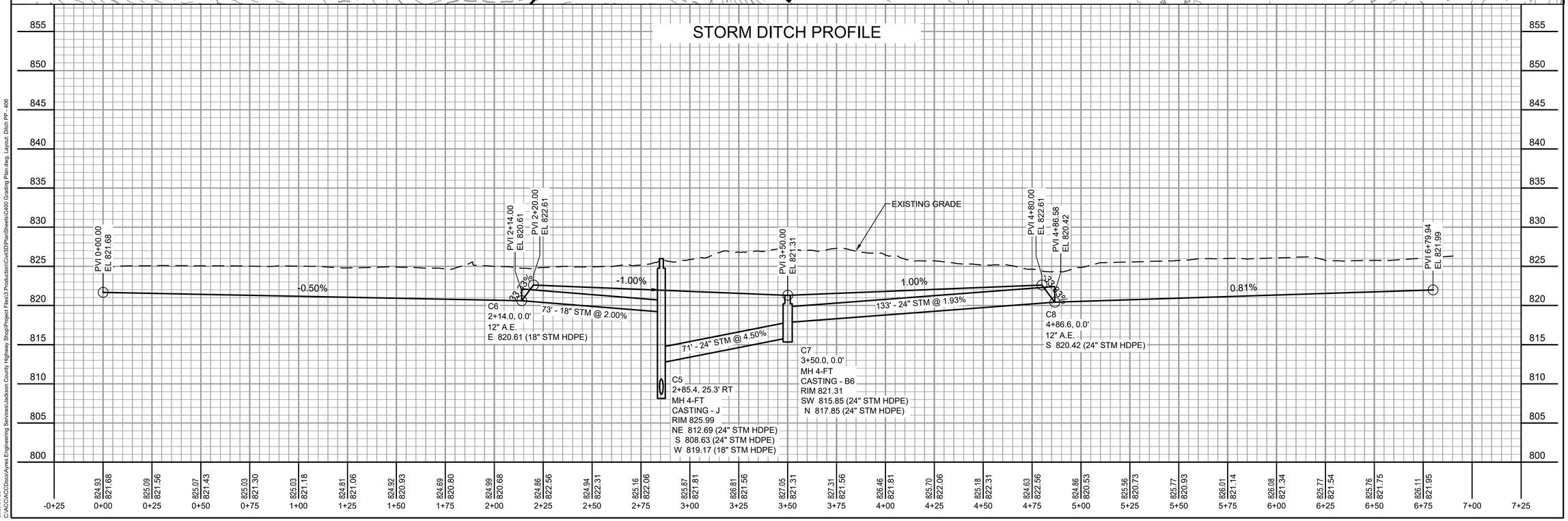
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SHEET TITLE
Grading Plan & Profile

SHEET
C405

AA-Standard.stb
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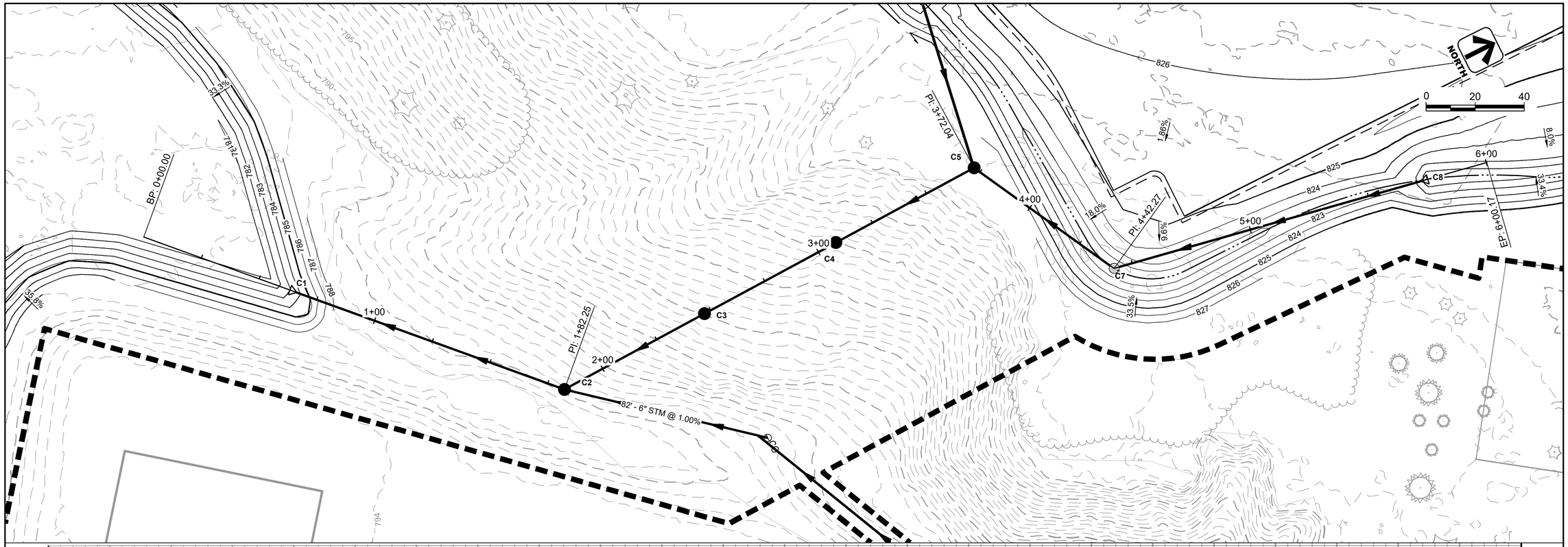
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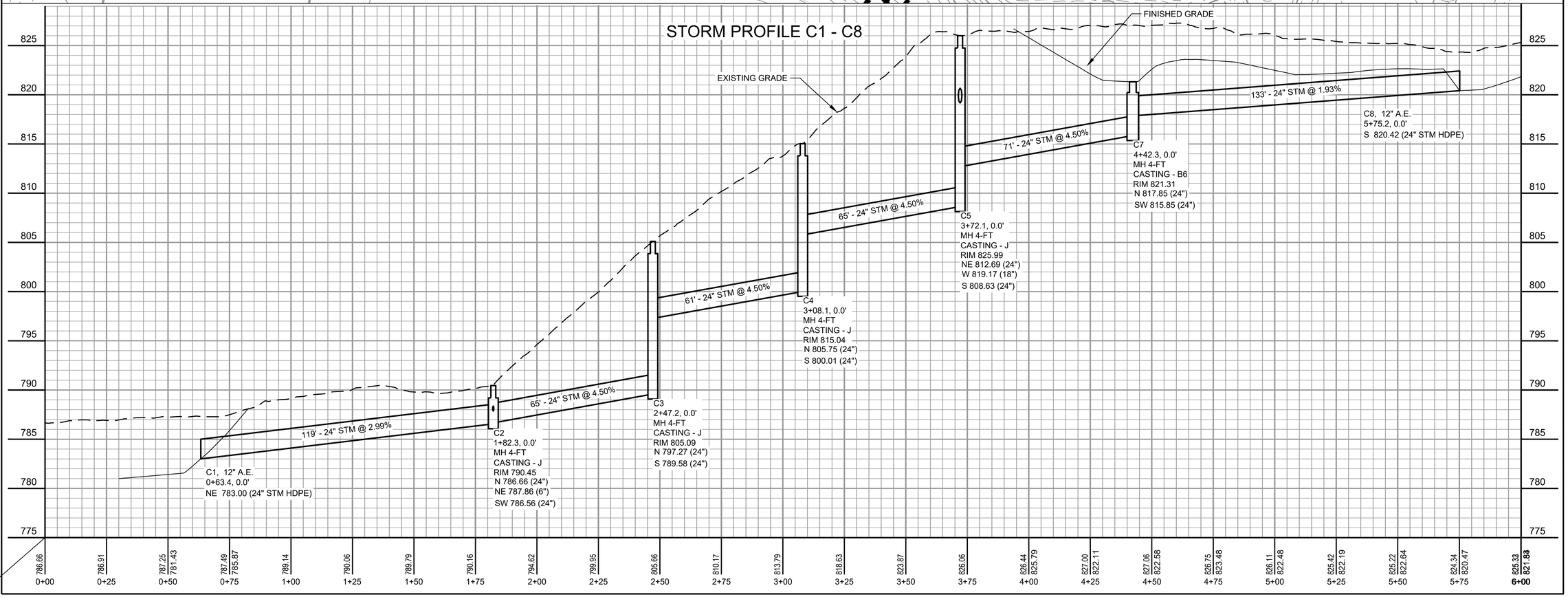
DATE
06.22.2026

SHEET TITLE
Grading Plan & Profile

SHEET
C406

AA-Standard.stb
2026.06.22
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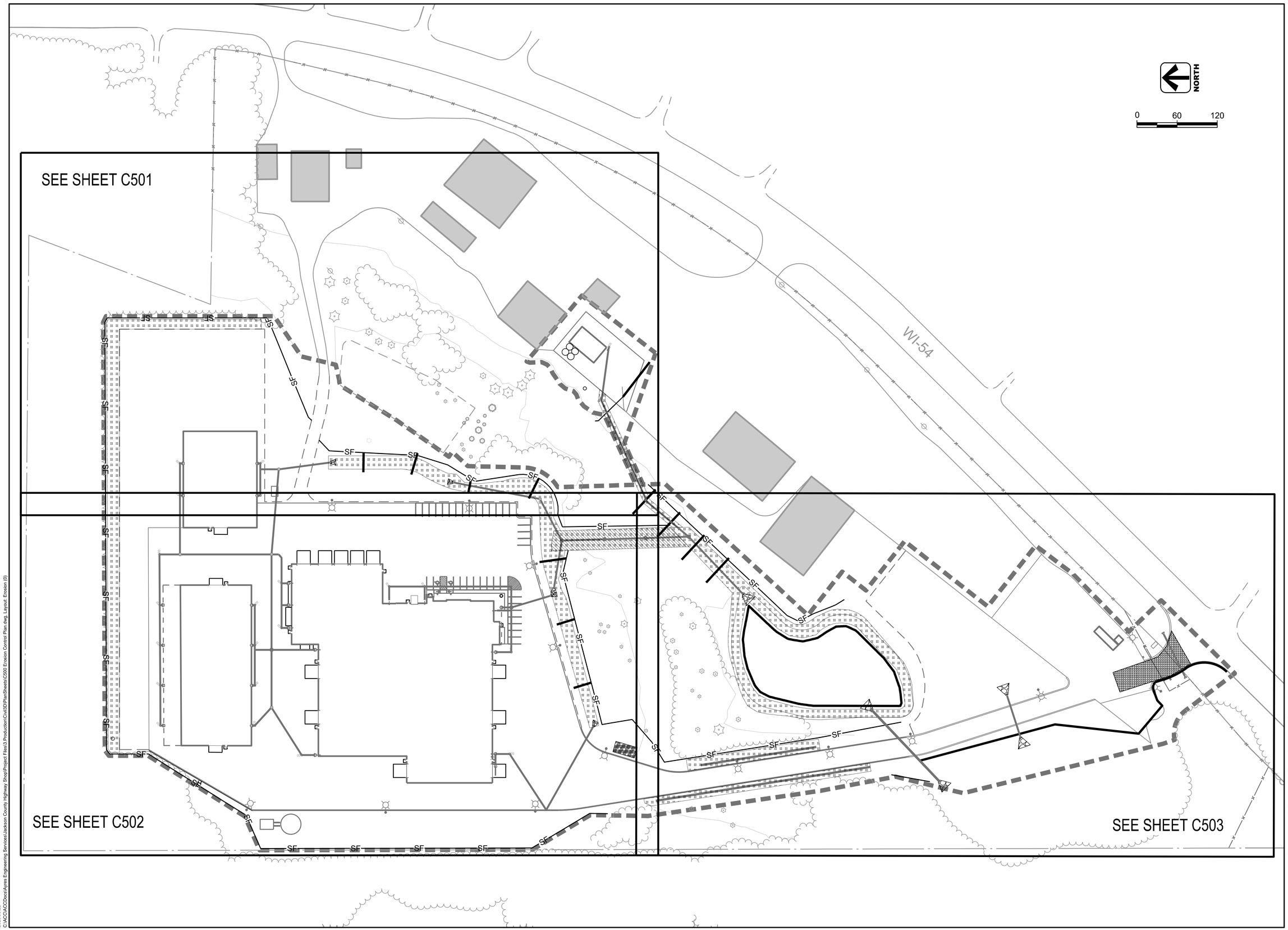
AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
Grading Plan & Profile

SHEET
C407

AA-Standard.stb
2026.06.22
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SET TYPE
BID PACKAGE #2

AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
Erosion Control Plan - Overall

SHEET
C500

AA-Standard.stb
2026.06.22
C:\ACCACCDocs\Ayres Engineering Services\Jackson County Highway Shop\Project Files\3.Production\Civil3D\PlanSheets\C500 Erosion Control Plan.dwg, Layout: Erosion (0)

EXST. BLDG

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

NORTH

0 30 60

OWNER STOCKPILE (TO REMAIN)

MEDIUM RIPRAP

MEDIUM RIPRAP

SF

JS

EROSION CONTROL LEGEND

SILT FENCE SEE DETAIL 06/C603	SF	RIPRAP SEE DETAIL 01/C603		PROJECT LIMITS	
STONE TRACKING PAD SEE DETAIL 05/C603		EROSION MAT, CLASS 1	DITCH	SEDIMENT LOG SEE DETAIL 04/C603	
INLET PROTECTION SEE DETAIL 02/C603		EROSION MAT, CLASS 3		CULVERT PIPE CHECK SEE DETAIL 02/C603	

CONCRETE WASHOUT AREA SEE EPA CONCRETE WASHOUT GUIDANCE MANUAL

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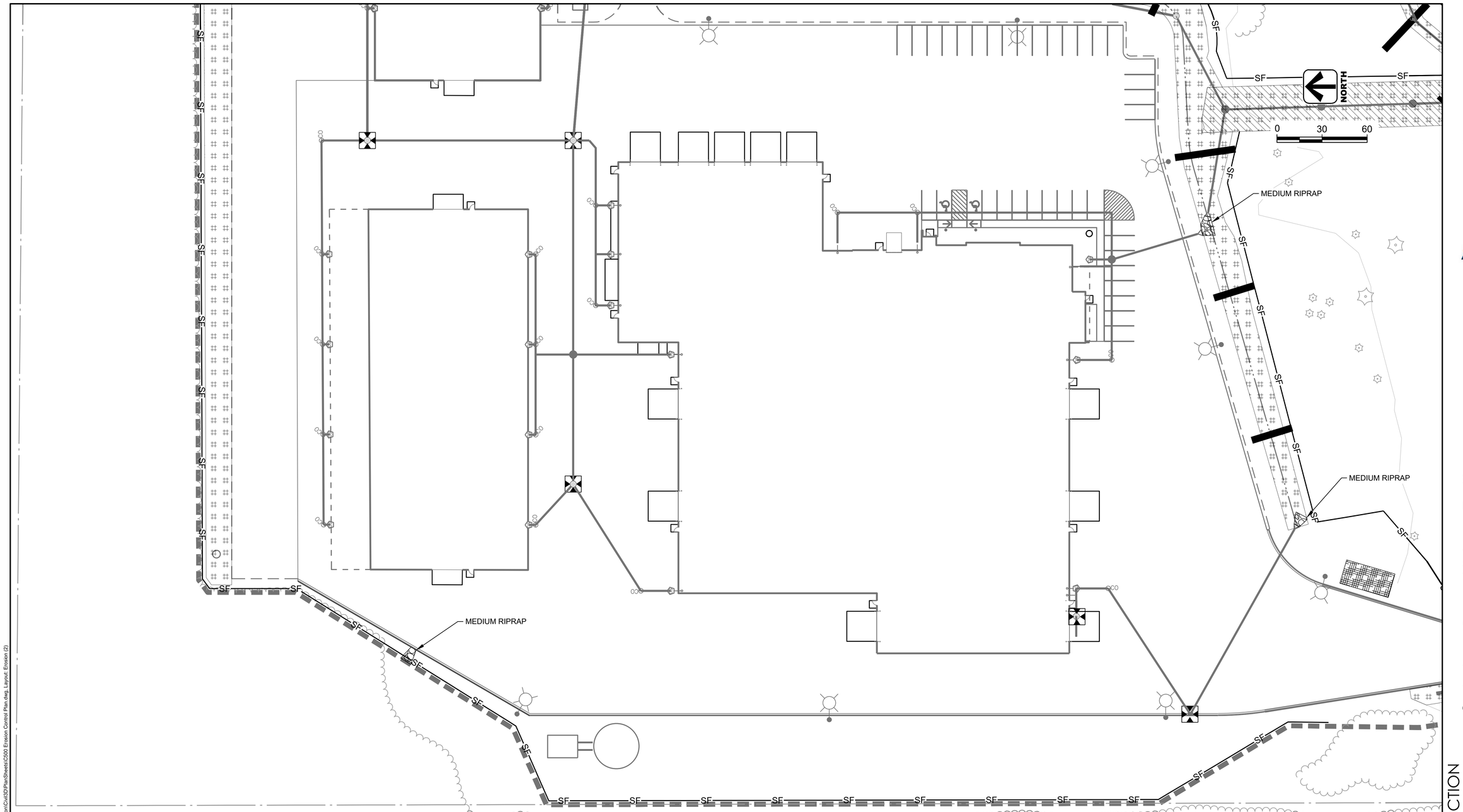
AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
Erosion Control Plan

SHEET
C501

AA-Standard.stb
2026.06.22
C:\ACCACCDocs\Ayres Engineering Services\Jackson County Highway Shop\Project Files\3 Production\Civil\3D\PlanSheets\C500 Erosion Control Plan.dwg, Layout: Erosion (1)



EROSION CONTROL LEGEND

SILT FENCE SEE DETAIL 06/C603	SF	RIPRAP SEE DETAIL 01/C603		PROJECT LIMITS	
STONE TRACKING PAD SEE DETAIL 05/C603		EROSION MAT, CLASS 1	DITCH	SEDIMENT LOG SEE DETAIL 04/C603	
INLET PROTECTION SEE DETAIL 02/C603		EROSION MAT, CLASS 3		CULVERT PIPE CHECK SEE DETAIL 02/C603	

CONCRETE WASHOUT AREA
SEE EPA CONCRETE
WASHOUT GUIDANCE MANUAL

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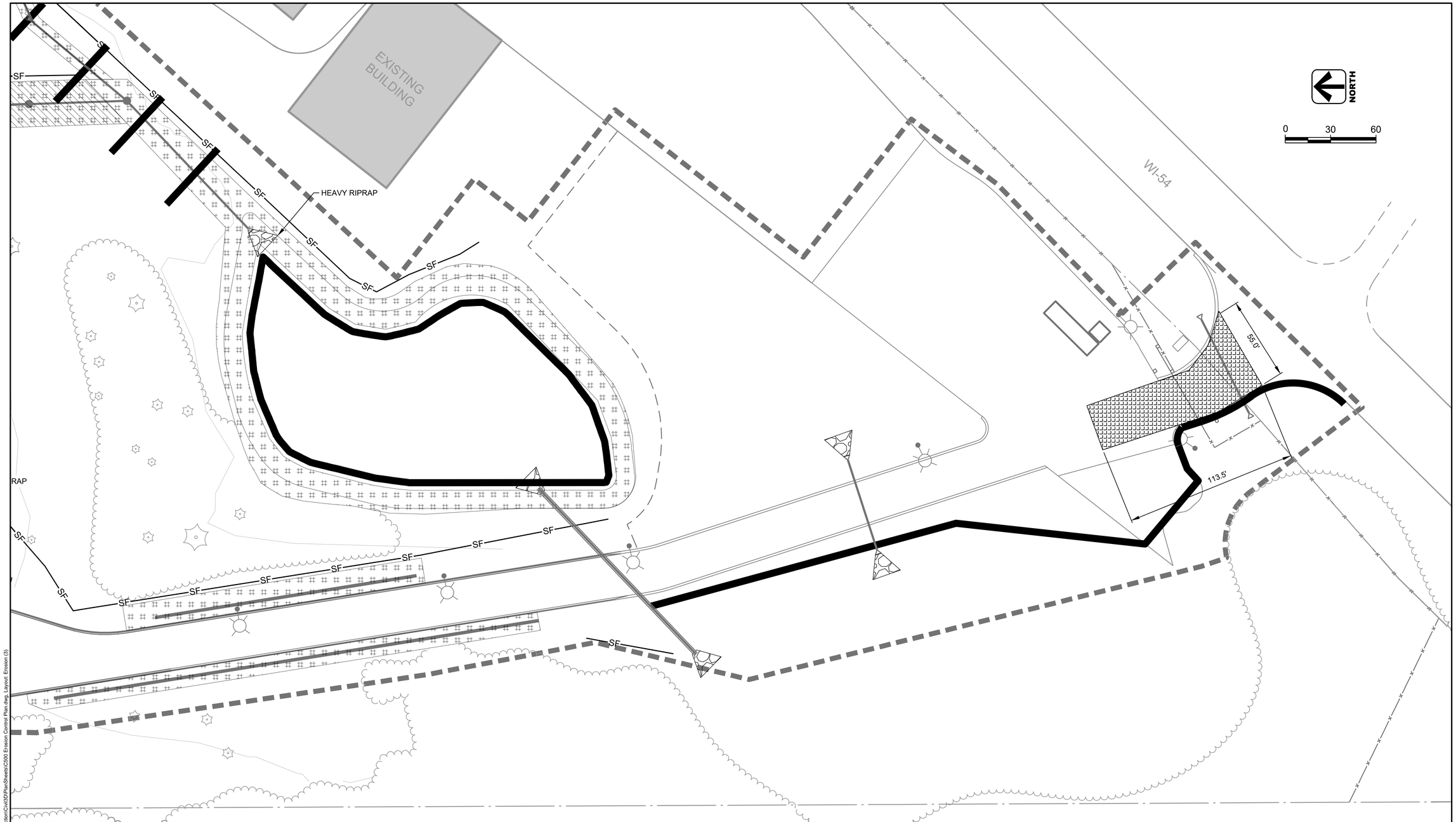
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DATE
06.22.2026

SHEET TITLE
Erosion Control Plan

SHEET
C502

AA-Standard.stb
2026.06.22
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EROSION CONTROL LEGEND

SILT FENCE SEE DETAIL 06/C603	SF	RIPRAP SEE DETAIL 01/C603		PROJECT LIMITS	
STONE TRACKING PAD SEE DETAIL 05/C603		EROSION MAT, CLASS 1	DITCH	SEDIMENT LOG SEE DETAIL 04/C603	
INLET PROTECTION SEE DETAIL 02/C603		EROSION MAT, CLASS 3		CULVERT PIPE CHECK SEE DETAIL 02/C603	

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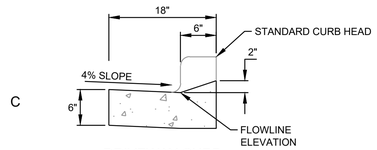
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DATE
06.22.2026

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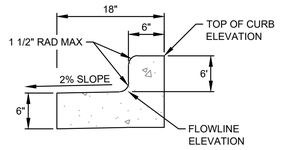
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C503

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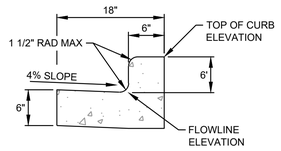
C

DRIVEWAY CURB



B

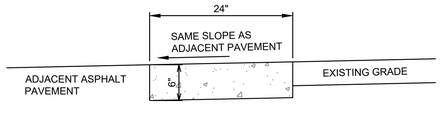
TIPPED OUT CURB & GUTTER



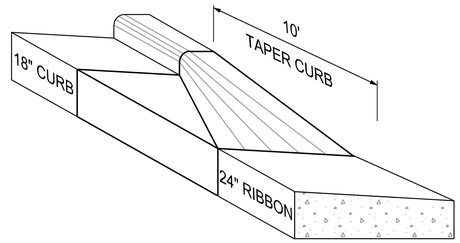
A

STANDARD CURB & GUTTER

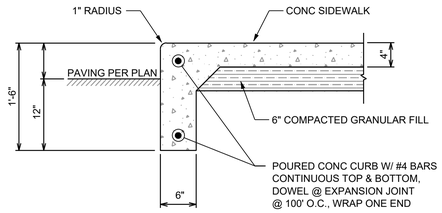
1 18" CONCRETE CURB & GUTTER
NOT TO SCALE



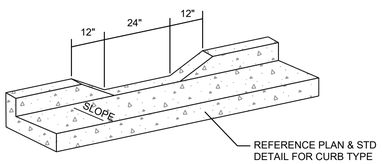
2 24" RIBBON CURB
NOT TO SCALE



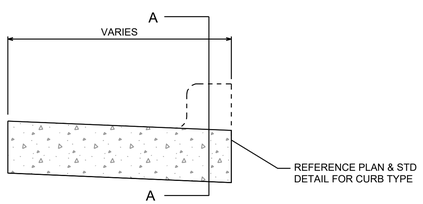
3 CURB & GUTTER TRANSITION
NOT TO SCALE



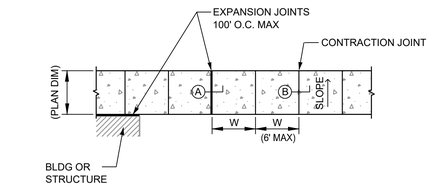
4 INTEGRAL CURB / SIDEWALK
NOT TO SCALE



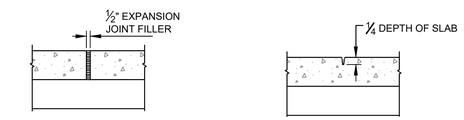
SECTION A-A



5 CONCRETE CURB & GUTTER DEPRESSION
NOT TO SCALE



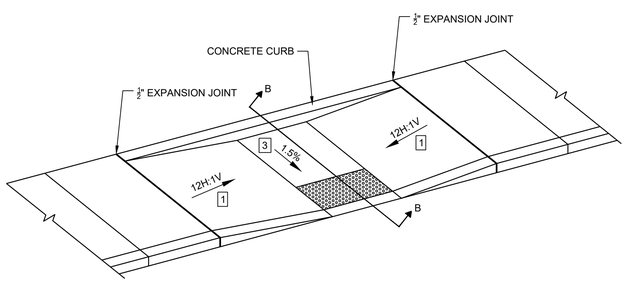
PLAN - TYPICAL SIDEWALK

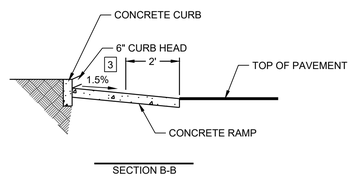


Ⓐ - EXPANSION JOINT

Ⓑ - CONTRACTION JOINT

6 SIDEWALK
NOT TO SCALE





SECTION B-B

7 RAMPED SIDEWALK
NOT TO SCALE

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

INSTALL CURB TRANSITION INCIDENTAL TO OTHER PAY ITEMS

1. DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHOULD BE FROM THE SAME MANUFACTURER.
2. SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE IS LESS THEN 6 FEET WIDE.
3. +/- 0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

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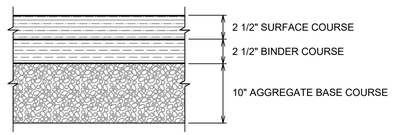
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23.1964.00

DATE
06.22.2026

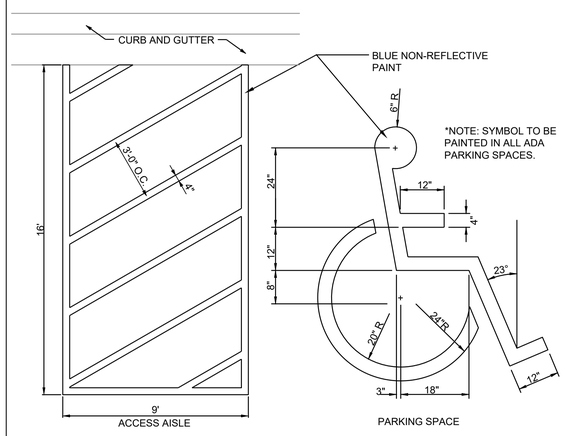
SHEET TITLE
Civil Details

SHEET
C600

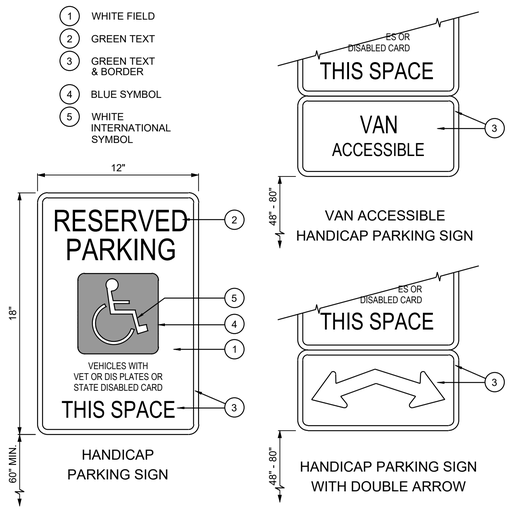
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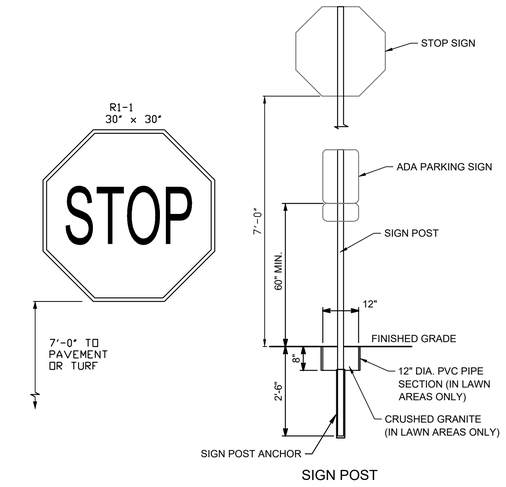
1 ASPHALT PAVEMENT
NOT TO SCALE



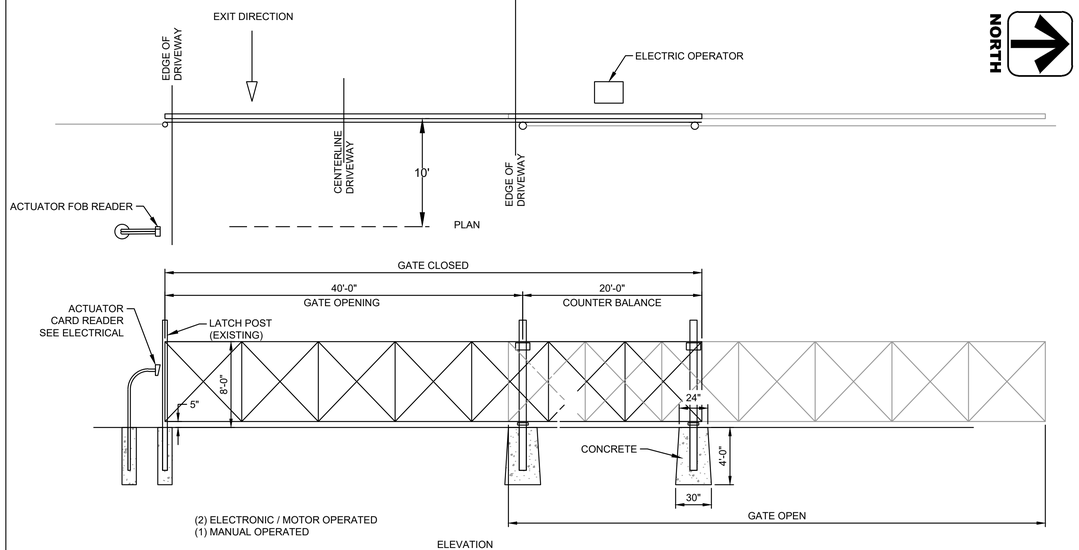
2 ADA STALL PAVEMENT MARKING
NOT TO SCALE



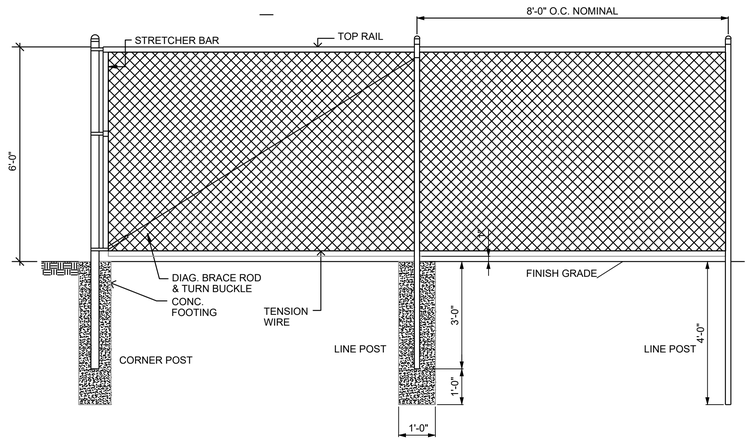
3 ADA PARKING SIGN
NOT TO SCALE



4 STOP SIGN AND INSTALLATION
NOT TO SCALE



5 36' CANTILEVER SLIDING GATE
NOT TO SCALE



6 CHAIN LINK FENCE
NOT TO SCALE

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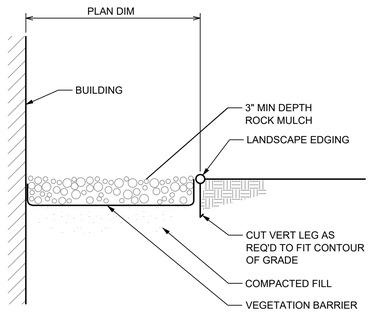
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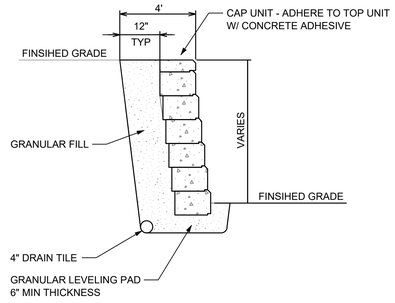
SHEET TITLE
Civil Details

SHEET
C601

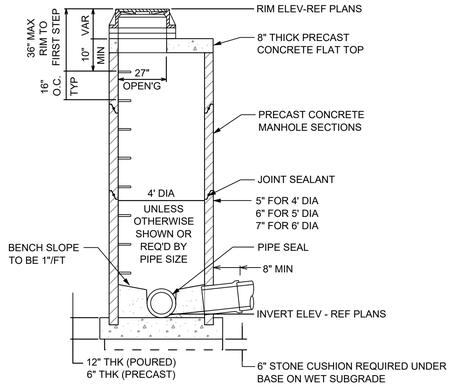
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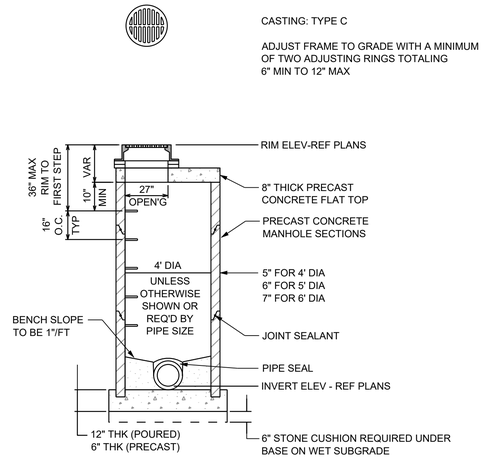
1 MULCH PERIMETER BED (ROCK)
NOT TO SCALE



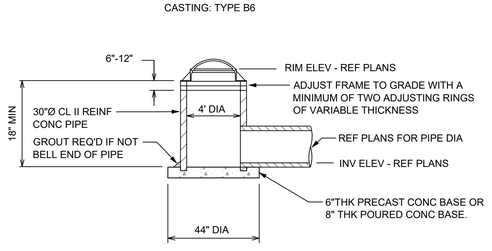
2 RETAINING WALL
NOT TO SCALE



3 STANDARD STORM MANHOLE
NOT TO SCALE

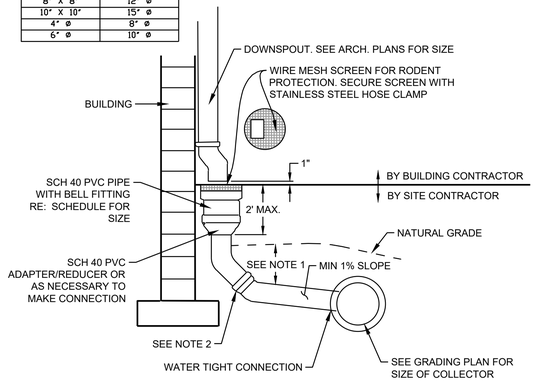


4 AREA INLET MANHOLE
NOT TO SCALE



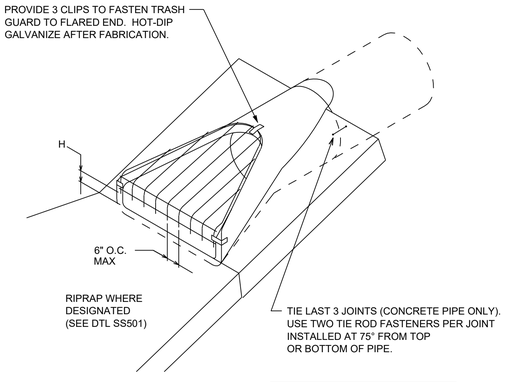
5 2.5-FT AREA INLET (BEEHIVE GRATE)
NOT TO SCALE

SCHEDULE	
DOWNSPOUT	PVC PIPE
8" X 8"	12" Ø
10" X 10"	15" Ø
4" Ø	8" Ø
6" Ø	10" Ø



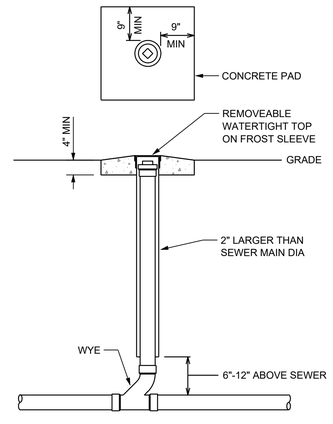
NOTES:
1. FOR ALL DEPTHS OF COVER LESS THAN TWO (2) FEET, PIPE MUST BE SCHEDULE 40 PVC. FOR DEPTHS OF COVER GREATER THAN TWO (2) FEET, FLEXIBLE PIPE MAY BE USED. REFER TO SPECIFICATIONS FOR ALLOWABLE PIPE TYPES
2. A WATER TIGHT CONNECTION SHALL BE MAINTAINED WITH ANY TRANSITION FROM SCHEDULE 40 PVC TO ANY OTHER PIPE MATERIAL
3. THE DOWNSPOUT COLLECTOR DRAIN SHALL BE INSTALLED BEFORE THE DOWNSPOUTS ARE INSTALLED ON THE BUILDING. SITEWORK CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK TO AND INCLUDING THE RODETN SCREEN. BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONNECTION AT THE POINT OF THE RODENT SCREEN.
4. INSTALL PIPES CLEAR OF COLUMNS, BOLLARDS, AND OTHER OTHER BUILDING APPURTENANCES.

6 DOWNSPOUT COLLECTOR
NOT TO SCALE



SIZE OF PIPE	DIA OF BARS	H	BOLTS
12" TO 18"	¾"	4"	⅝"
21" TO 42"	1"	6"	¾"
42" TO 72"	1 ¼"	12"	1"

7 APRON ENDWALL W/ TRASH GUARD
NOT TO SCALE



8 CLEANOUT
NOT TO SCALE

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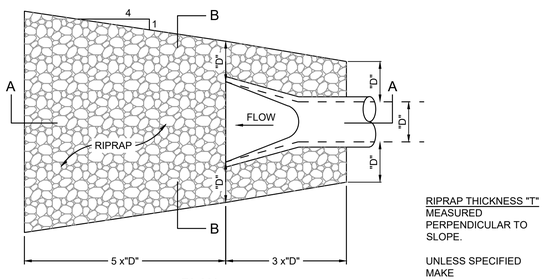
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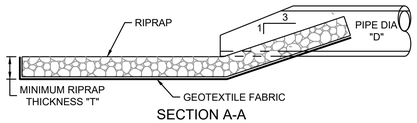
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Civil Details

SHEET
C602

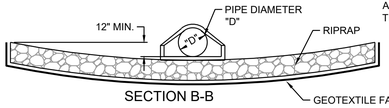
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PLAN



SECTION A-A



SECTION B-B

RIPRAP THICKNESS "T" MEASURED PERPENDICULAR TO SLOPE.

UNLESS SPECIFIED MAKE

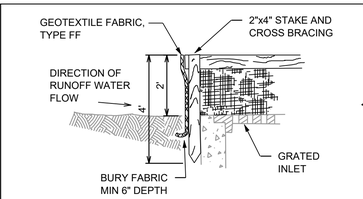
LIGHT RIPRAP AT LEAST 12 INCHES THICK,

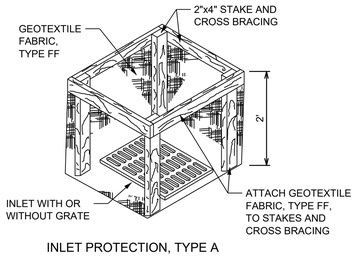
MEDIUM RIPRAP AT LEAST 18 INCHES THICK,

HEAVY RIPRAP AT LEAST 24 INCHES THICK AND

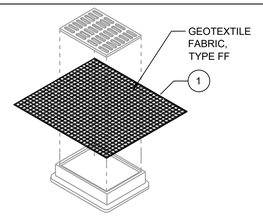
EXTRA HEAVY RIPRAP AT LEAST 30 INCHES THICK.

1 RIPRAP - STORM SEWER OUTLETS
NOT TO SCALE

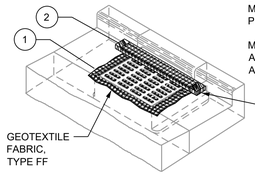




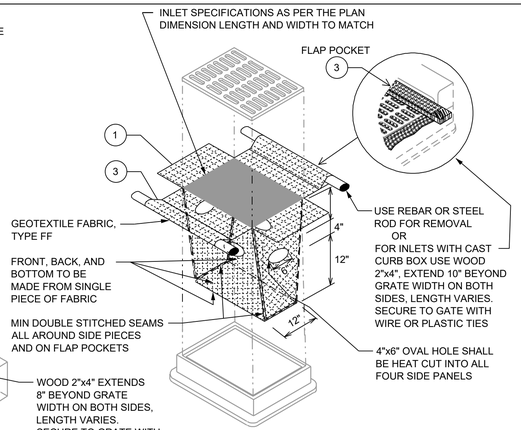
INLET PROTECTION, TYPE A



INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)
(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C
(WITH CURB BOX)

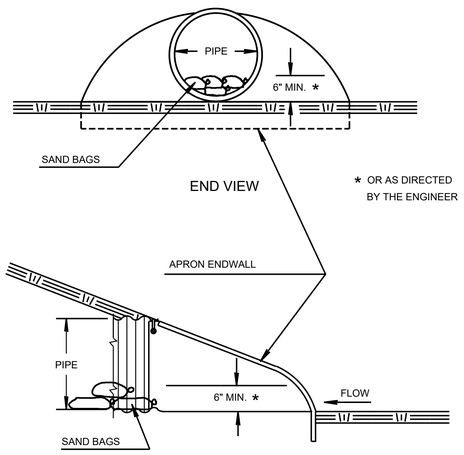


INLET PROTECTION, TYPE D
(WITHOUT CURB BOX)
(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE (2))

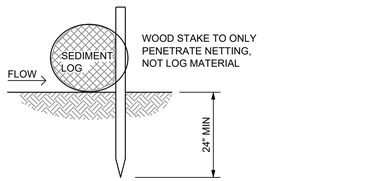
GENERAL NOTES
-MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.
-WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING IN TO HE INLET SHALL BE REMOVED IMMEDIATELY.
(1) -FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
(2) -FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
(3) -FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT A WOOD 2x4.

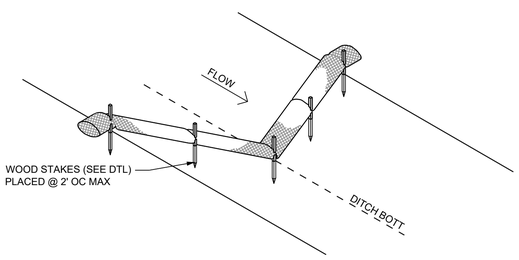
INSTALLATION NOTES
TYPE B & C: -TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
-THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.
TYPE D: -DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
-TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
-THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

2 INLET PROTECTION
NOT TO SCALE

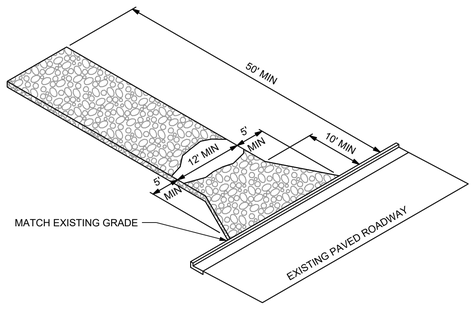


3 CULVERT PIPE DITCH CHECK
NOT TO SCALE

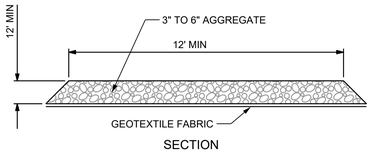




4 SEDIMENT LOG
NOT TO SCALE



PLAN



SECTION

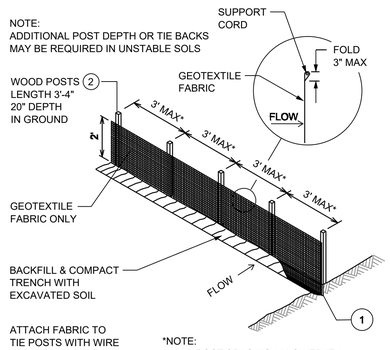
5 STONE TRACKING PAD
NOT TO SCALE

GENERAL NOTES

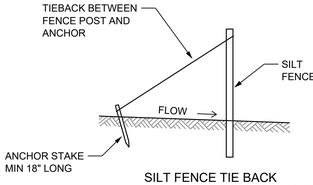
(1) TRENCH SHALL BE A MIN OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC, FOLD THE MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

(2) WOOD POSTS SHALL BE A MIN SIZE OF $1\frac{1}{1}$8" x $1\frac{1}{1}$8" OAK OR HICKORY.

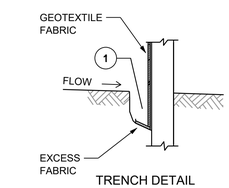
(3) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY, USE ONE OF THE FOLLOWING TWO METHODS;
A. TWIST METHOD -- OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES.
B. HOOK METHOD -- HOOK THE END OF EACH SILT FENCE LENGTH.



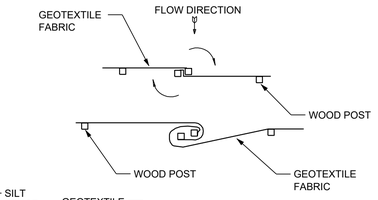
SILT FENCE



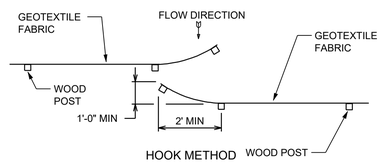
SILT FENCE TIE BACK
(WHEN ADDITIONAL SUPPORT REQUIRED)



TRENCH DETAIL



TWIST METHOD



HOOK METHOD

JOINING 2 LENGTHS OF SILT FENCE

6 SILT FENCE
NOT TO SCALE

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www. **barrientosdesign** .com

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AYRES

CONSTRUCTION MANAGER

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Jackson County Highway Facility

WI-54, Black River Falls, Wisconsin

REVISIONS

DATE	DESCRIPTION

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BIDDING SET TYPE
BID PACKAGE #2

AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
Civil Details

SHEET
C603

AA-Standard.stb
2026.06.22
C:\ACCACCDocs\Ayres Engineering Services\Jackson County Highway Shop\Project Files\3.Production\Civil\3D\PlanSheets\C600 Site Details.dwg, Layout: Civil Details

DOSED IN-GROUND ABSORPTION SYSTEM COVER SHEET

In-Ground Soil Absorption Component Manual for POWTS Version 2.1 (May 2022-2027)

Design By High Cliff Consulting LLC

LOCATION: NW ¼ NE ¼ S 28 T 21 N R 4 W
TOWN: ALBION **COUNTY:** JACKSON

OWNER NAME/ADDRESS: *JACKSON COUNTY HIGHWAY DEPT*
119 HARRISON ST
BLACK RIVER FALLS, WI 54615

DESIGNER NAME/ADDRESS: *MARK PALMER*
HIGH CLIFF CONSULTING LLC
PO BOX 176
GALESVILLE, WI 54630
LICENSE #: 1508-007

SIGNATURE: DATE: 06/10/2025

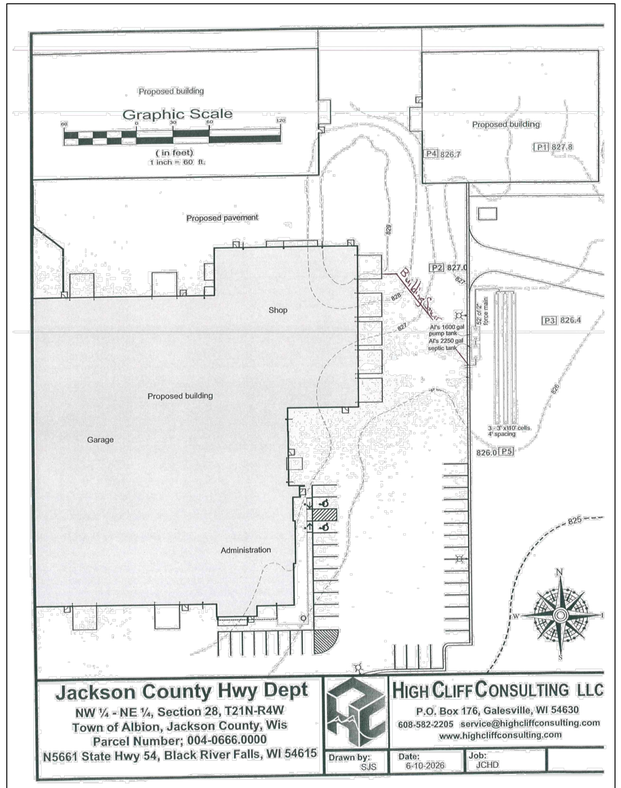
ATTACHMENTS:

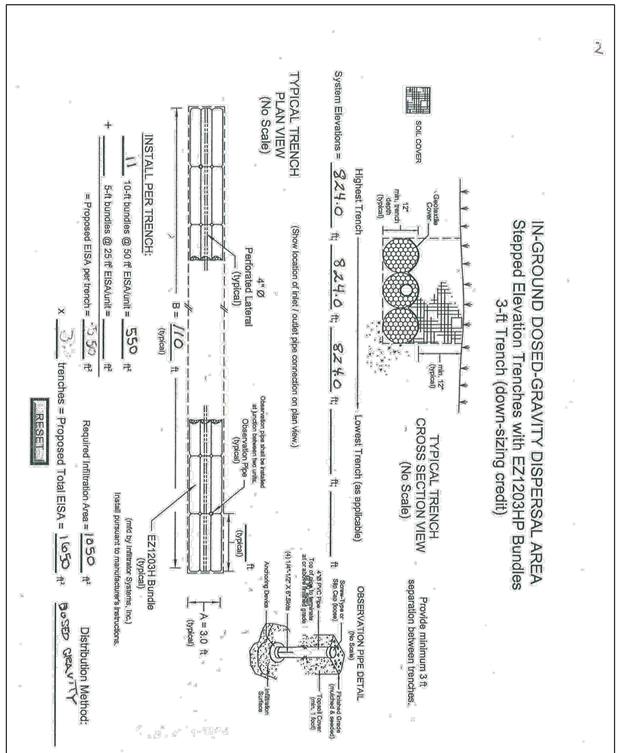
PAGE 1: PLOT PLAN
PAGE 2: PLAN VIEW CROSS SECTION
PAGE 3: PIPE LATERAL LAYOUT
PAGE 4 -5: TANK SPECIFICATIONS
PAGE 6: PUMP CURVE / RISSY SPECIFICATIONS
PAGE 7: MANAGEMENT PLAN
PAGE 8: SIZING
PAGE 9: MATERIALS & SPECIFICATIONS

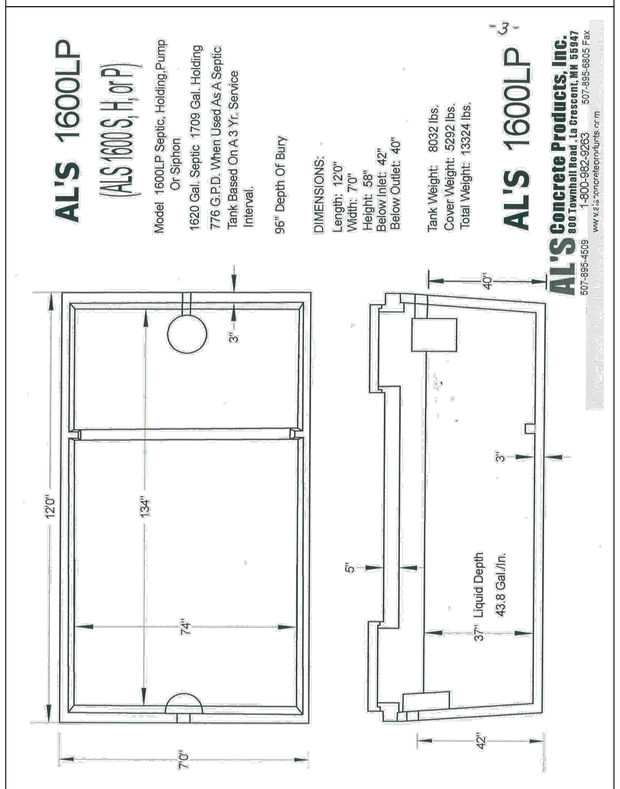
WISCONSIN Mark H. Palmer 1508-007 Blair WI Designer

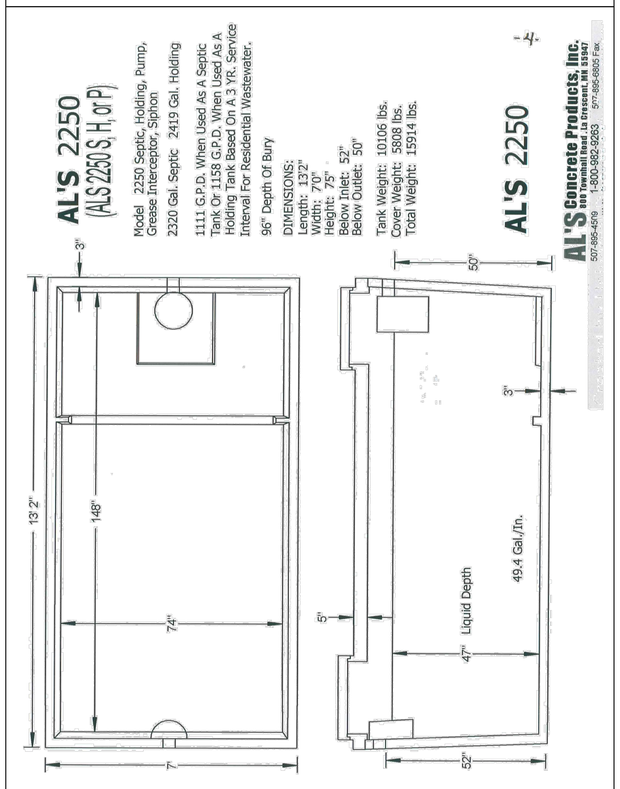
High Cliff Consulting LLC
Phone: 608-582-2205
PO Box 176
Galesville, WI 54630

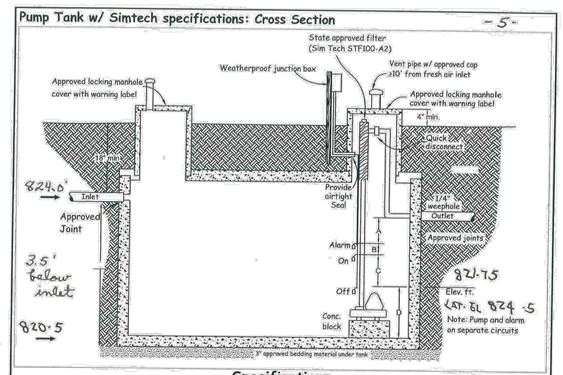
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Specifications

Note: Pump and alarm are on separate circuits as per NEC and Wis. Admin. Code

Tank Manufacturer: Als 1600LP
Tank Size: 1600 Gallons
Alarm/Control Mnf.: SJE RHOMBUS
Model Number: TANK ALERT 101 OF 4
Pump Manufacturer: GOULDS
Model Number: 3811 EP04
Minimum discharge rate: 50 GPM

Number of doses: 7.23 Per day
Delivery per dose: 207.59 Gallons
Volume of backflow: 11.41 Gallons
Total Dose Volume: 219 Gallons [C]

Capacities: A 18 inches or 788.4 Gallons
B 2 inches or 87.6 Gallons
C 5 inches or 219 Gallons
D 12 inches or 525.6 Gallons

Friction loss through filter: .5 ft.
Vertical difference between pump off and distribution pipe: 2.75 ft.
Minimum required supply pressure: — ft.
70 ft. of force main x 4.99 Friction factor/100 ft. 3.5 ft.
Total dynamic head = 6.75 ft.

Depth of liquid 37"
Gallons/inch 43.8

Notes:

HIGH CLIFF CONSULTING LLC
P.O. Box 176, Galesville, WI 54630
608-582-2205 service@highcliffconsulting.com
www.highcliffconsulting.com
Drawn by:
Date:

BARRIENTOS design & consulting
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SET TYPE
BID PACKAGE #2

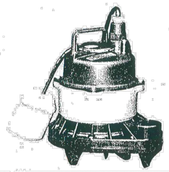
AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
POWTS

SHEET
C700

AA-Standard.stb
2026.06.22
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Goulds

Submersible Effluent Pump

MODEL

3871 EP04 EP05

APPLICATIONS

Specifically designed for the following uses:
- Effluent systems
- Homes
- Farms
- Heavy duty sump
- Water transfer
- Dewatering

SPECIFICATIONS

Pump: EP04
- Solids handling capability: ¾" maximum.
- Capacities: up to 55 GPM.
- Total heads: up to 24 feet.
- Discharge size: 1½" NPT.
- Mechanical seal: carbon-rotary/ceramic-stationary, BUNA-N elastomers.
- Temperature: 104°F (40°C) continuous 140°F (60°C) intermittent.
- Fasteners: 300 series stainless steel.
- Capable of running dry without damage to components.

Pump: EP05
- Solids handling capability: ¾" maximum.
- Capacities: up to 60 GPM.
- Total heads: up to 31 feet.
- Discharge size: 1½" NPT.
- Mechanical seal: carbon-rotary/ceramic-stationary, BUNA-N elastomers.
- Temperature: 104°F (40°C) continuous 140°F (60°C) intermittent.
- Fasteners: 300 series stainless steel.
- Capable of running dry without damage to components.

Motor:
- EP04 Single phase: 0.4 HP, 115 or 230 V, 60 Hz, 1550 RPM, built in overload with automatic reset.
- EP05 Single phase: 0.5 HP, 115 V, 60 Hz, 1550 RPM, built in overload with automatic reset.
- Power cord: 10 foot standard length, 16/3 SJTO with three prong grounding plug. Optional 20 foot length, 16/3 SJTW with three prong grounding plug (standard on EP05).
- Fully submerged in high grade turbine oil for lubrication and efficient heat transfer.

Available for automatic and manual operation. Automatic models include Mechanical Float Switch assembled and preset at the factory.

FEATURES

■ **EP04 Impeller:** Thermoplastic Semi-open design with pump out vanes for mechanical seal protection.

■ **EP05 Impeller:** Thermoplastic **enclosed** design for improved performance.

■ **Casing and Base:** Rugged thermoplastic design provides superior strength and corrosion resistance.

■ **Motor Housing:** Cast iron for efficient heat transfer, strength, and durability.

■ **Motor Cover:** Thermoplastic cover with integral handle and float switch attachment points.

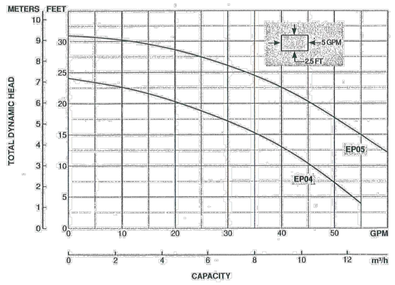
■ **Power Cable:** Severe duty rated oil and water resistant.

■ **Bearings:** Upper and lower heavy duty ball bearing construction.

AGENCY LISTING

CSA Canadian Standards Association

(CSA listed model numbers end in "F" or "AC".)



Material Specifications

All Materials used in installation of this system shall comply with SPS 384.

Where not otherwise specified a material conforming to the following standard shall be used.

Assembly	SPS Code Reference
POWTS inspection and observation piping	Table 384.30-1
Above ground drain and vent	Table 384.30-1
Under ground drain and vent	Table 384.30-2
Sanitary building sewer pipe	Table 384.30-3
Treated wastewater piping – nonpressurized, nonperforated	Table 384.30-3
Treated wastewater piping – nonpressurized, perforated	Table 384.30-4
Treated wastewater piping – pressurized, perforated	Table 384.30-5
Pressurized drain piping	Table 384.30-5
Chemical drain and vent pipe	384.30 (2) (f)
Catch basins, interceptors and sumps	384.30 (2) (g)
Manholes	384.30 (2) (h)
Service suction lines	Table 384.30-5 and 384.40
POWTS inspection and observation pipes	Table 384.30-1
Frost protection and insulation requirements	382.30 (11) (c) 3

In-ground Gravity Management Plan

IMPORTANT:

The owner of this in-ground gravity system shall be responsible for its perpetual operation and maintenance pursuant to requirements of SPS 382-384, Wisc. Admin. Code. Pursuant to SPS 383.52 (2), Wisc. Admin. Code, this system shall be considered a human health hazard if not maintained in accordance with this approved management plan. Furthermore, all inspection and maintenance activities shall be performed by a **registered POWTS Maintainer** in accordance with SPS 383.52 (3), Wisc. Admin. Code.

Maximum Dispersal Area Operating Limits:

Design Flow = 1050 gpd; $BOD_5 \leq 220\ mgL^{-1}$; $TSS \leq 150\ mgL^{-1}$; $FOG \leq 30\ mgL^{-1}$

Inspection Checklist INSPECT EVERY 3 YEARS
- o type of use
- o age of system
- o nuisance factors (*i.e.* odors, user complaints, *etc.*)
- o mechanical malfunction (*i.e.*, pumps, valves, switches, floats, *etc.*)
- o material fatigue (*i.e.*, leaks, breaks, corrosion, *etc.*)
- o solids volume in anaerobic treatment tank(s) and any distribution appurtenance(s) (i.e., distribution / drop boxes)
- o neglect or improper use (*i.e.*, exceeding design capacities, prohibited activities, *etc.*)
- o extent of ponding in distribution cell prior to dosing
- o dosing irregularities - if applicable (*i.e.*, pump re-cycling, float switch settings, *etc.*)
- o electrical components - if applicable (*i.e.*, wiring, connections, switches, controls, timers, alarms, *etc.*)
- o distribution lateral or lateral orifice plugging (measure lateral distal pressure – compare to design specification)
- o surface discharge of effluent or sewage back-up into structure served

Maintenance Checklist MAINTAIN EVERY 3 YEARS (or when necessary)
- o **Septic and dose tank(s)** shall be pumped by a certified septage servicing operator licensed under s. 281.48 Wis. Stats. **when the volume of solids in the tank(s) exceeds one-third (1/3) the liquid volume of the tank(s)** or as required by local ordinance. Disposal of contents shall be pursuant to NR 113, Wisc. Admin. Code.
- o **Effluent filter(s)** shall be inspected **every 3 years** and shall be cleaned **when necessary** to remove any accumulated solids according to manufacturer's specifications. A servicing period will always be greater than 12 months.

System maintenance reports shall be submitted to the proper local government unit in accordance with SPS 383.55 Wisc. Admin. Code. Report any component failure or malfunction to:

Name of individual or company: JACKSON COUNTY HWY DEPS Phone: 715 284 0233

Local government unit: JACKSON COUNTY Phone: 715 284 0220

Any defective part of this system shall be repaired, replaced, or removed pursuant to SPS 383.51 (1), Wisc. Admin. Code. Repair or replacement of failed or malfunctioning components shall comply with SPS 383, Wisc. Admin. Code. No product for chemical or physical restoration of the POWTS may be used unless approved by the department in accordance with SPS 384, Wisc. Admin. Code.

Contingency Plan

In the event that any failed treatment component of this POWTS cannot be repaired, it shall be replaced pursuant to a plan submitted to the appropriate agency for review and approval. A failed in-ground dispersal component may be abandoned and replaced by a code-complying dispersal component in a pre-determined area of suitable soils.

System Abandonment

If use of this POWTS is discontinued, it shall be abandoned in accordance with SPS 383.33, Wisc. Admin. Code.

Page

Jackson County Highway Shop **SIZING CRITERIA**

COMMERCIAL DESCRIPTION

35 employees × 13 gal × 1.5 = 682.5
2 floor drains × 25 gal × 1.5 = 75
3 sleeping rooms × 65 gal × 1.5 = 292.5
1050 gpd

ESTIMATED DAILY FLOW X 5

1050 gallons/day

MINIMUM REQUIRED Septic Tank 2193 gallons

PROPOSED

Als 2,250 gallon septic tank
Als 1600 gallon pump tank

1050 ÷ .7 = 1500 ft² soil absorption cells

3-3' × 110' cells

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Milwaukee, WI 53203
office: 414-271-1812
www. barrientosdesign .com

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REVISIONS

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SET TYPE
BID PACKAGE #2

AYRES DESIGN PROJECT NUMBER
23.1964.00

DATE
06.22.2026

SHEET TITLE
POWTS

SHEET
C701

AA-Standard.stb
2026.06.22
C:\ACCACCDocs\Ayres Engineering Services\Jackson County Highway Shop\Project Files\3.Production\Civil\3D\PlanSheets\Bid Package 2\Bid Package 2.dwg, Layout: C701 POWTS

BUILDING DATA

NEW CONSTRUCTION — WI TRANSACTION ID #

APPLICABLE BUILDING CODES:

Building Code:
2021 International Building Code with Wisconsin Amendments SPS 362

Accessibility Code:
2021 International Building Code With Wisconsin Amendments SPS 362
2019 ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities.

Fire Code:
2021 International Fire Code to the extent established by SPS 361, NFPA 1-2012 to the extent established by SPS 314.001

Jackson County Planning Department: Conditional Use M-2 Industrial Extractive District

CLIMATE ZONE — 6A

OCCUPANCY CLASSIFICATIONS:
TYPE S-1: MOTOR VEHICLES REPAIR & TRUCK WASHING
TYPE S-2: ENCLOSED PARKING GARAGE & STORAGE AREAS
TYPE B: BUSINESS
ACCESSORY TYPE B: BUSINESS (OFFICE - ACCESSORY TO S-1)

CONSTRUCTION CLASSIFICATION *(IBC CHAPTER 6)* — TYPE IIB CONSTRUCTION

MULTIPLE OCCUPANCIES
NON-SEPARATED OCCUPANCIES PER IBC 507.4: SPRINKLERED, ONE-STORY BUILDINGS: UNLIMITED AREA ALLOWED. THE BUILDING IS FULLY SPRINKLERED & SURROUNDED BY YARDS NOT LESS THAN 60' IN WIDTH. S-1 OCCUPANCY WILL GOVERN THE BUILDING

S-1 OCCUPANCY (GOVERNS HEIGHT)
- PER IBC 504.3 BUILDING HEIGHT: 75'. ACTUAL HEIGHTS ARE 36' AND 30'.
- PER IBC 506.2 BUILDING AREA: 70,000 SQ. FT. ACTUAL AREA: 21,773 SQ. FT.

S-2 OCCUPANCY
- PER IBC 504.3 BUILDING HEIGHT: 75'. ACTUAL HEIGHTS ARE 30' AND 17'
- PER IBC 506.2 BUILDING AREA: 78,000 SQ. FT. ACTUAL AREA: 46,538 SQ. FT.

B OCCUPANCY & ACCESSORY
- PER IBC 504.3 BUILDING HEIGHT: 75'. ACTUAL HEIGHTS ARE 15'
- PER IBC 506.2 BUILDING AREA: 92,000 SQ. FT. ACTUAL AREA: 7,472 SQ. FT.

TOTAL BUILDING AREA — **75,783 SQ. FT.**

SPRINKLER INFORMATION — FULLY SPRINKLERED PER NFPA 13.

NUMBER OF STORIES — ONE STORY, WITH MEZZANINE

TABLE 601 / 602 REQUIREMENTS — ALL BUILDING ELEMENTS 0 HR.

OCCUPANCY LOAD ('OL') BASED ON SQ. FT.

FUNCTION OF SPACE		PER TABLE 1004.5	OCCUPANTS
'B' OCCUPANCY & ACCESSORY	BUSINESS AREAS	150 S.F. GROSS / OCCUPANT	19
	ASSEMBLY UNCONCENTRATED	15 S.F. NET / OCCUPANT	103
	LOCKER ROOMS	50 S.F. GROSS / OCCUPANT	24
'S-2' OCCUPANCY	PARKING GARAGE AREAS	200 S.F. GROSS / OCCUPANT	233
	STORAGE, STOCK, SHIPPING AREAS	300 S.F. GROSS / OCCUPANT	8
'S-1' OCCUPANCY	INDUSTRIAL AREAS	100 S.F. GROSS / OCCUPANT	213
	MEZZANINE (STORAGE, STOCK, SHIPPING AREAS)	300 S.F. GROSS / OCCUPANT	3
		TOTAL OCCUPANTS:	603

OCCUPANCY ACTUAL LOAD ('AL') PER SPS 362.2902(1)(E)

FUNCTION OF SPACE		OCCUPANTS
'B' OCCUPANCY & ACCESSORY	BUSINESS AREAS	17
	ASSEMBLY UNCONCENTRATED	55
	LOCKER ROOMS	24
'S-2' OCCUPANCY	PARKING GARAGE AREAS	60
	STORAGE, STOCK, SHIPPING AREAS	4
'S-1' OCCUPANCY	INDUSTRIAL AREAS	33
	MEZZANINE (STORAGE, STOCK, SHIPPING AREAS)	3
	TOTAL OCCUPANTS:	196

*SMALL SERVICE ROOMS (MECHANICAL, ELECTRICAL, TRASH, JANITORIAL), UNISEX BATHROOMS, & STORAGE CLOSETS (TOOLS, BULK FLUIDS, SPRAYS), ARE NOT INTENDED FOR HUMAN OCCUPANCY. NO OCCUPANT LOAD IS ASSIGNED PER IBC 1004.1 & 1004.5.

PLUMBING FIXTURES

PER TABLE 2902.1
TOTAL OCCUPANCY: 603

BUSINESS OCCUPANCY: 146 TOTAL
73 MALES. 73 FEMALES.

WATER CLOSET:
1 PER 25 FOR FIRST 50
1 PER 50 FOR REMAINDER

LAVATORY:
1 PER 40 FOR FIRST 80
1 PER 80 FOR REMAINDER

DRINKING FOUNTAIN:
1 PER 100

STORAGE OCCUPANCIES COMBINED (SAME REQUIREMENTS): 457 TOTAL
229 MALES. 228 FEMALES.

WATER CLOSET:
1 PER 100

LAVATORY:
1 PER 100

DRINKING FOUNTAIN:
1 PER 1,000

TOTALS:
WATER CLOSETS: 6 MALE. 6 FEMALE
LAVATORIES: 5 MALE. 5 FEMALE
DRINKING FOUNTAIN: 3 (NO GENDER SPLIT)
SERVICE SINK: 1 (NO GENDER SPLIT)

PER SPS 362.2901(1)(E) ALTERNATIVE TO IBC TABLE 2902.1
OWNER VERIFIED OCCUPANCY SEE SIGNED STATEMENT
TOTAL OCCUPANCY: 200

BUSINESS OCCUPANCY: 96 TOTAL
48 MALES. 48 FEMALES.

WATER CLOSET:
1 PER 25 FOR FIRST 50
1 PER 50 FOR REMAINDER

LAVATORY:
1 PER 40 FOR FIRST 80
1 PER 80 FOR REMAINDER

DRINKING FOUNTAIN:
1 PER 100

STORAGE OCCUPANCIES COMBINED (SAME REQUIREMENTS): 100 TOTAL
50 MALES. 50 FEMALES.

WATER CLOSET:
1 PER 100

LAVATORY:
1 PER 100

DRINKING FOUNTAIN:
1 PER 1,000

TOTALS:
WATER CLOSETS: 3 MALE. 3 FEMALE
LAVATORIES: 3 MALE. 3 FEMALE
DRINKING FOUNTAIN: 2 (NO GENDER SPLIT)
SERVICE SINK: 1 (NO GENDER SPLIT)

*ASSIGNED 2 UNISEX BATHROOMS FOR MALE (2 WATER CLOSETS & 2 LAVATORIES), 1 UNISEX BATHROOM FOR FEMALE (1 WATER CLOSET & 1 LAVATORY) PER IBC 2902.1.2

EXIT ACCESS TRAVEL DISTANCE — PER TABLE 1017.2 (SPRINKLERED) S-1 GOVERNS. B OCCUPANCY: 300FT; S-1 OCCUPANCY: 250FT; S-2 OCCUPANCY: 400FT

COMMON PATH OF EGRESS TRAVEL — PER TABLE 1006.2.1 EXCEPTION, 100 FT.

ROOM WITH ONE EXIT — PER TABLE 1006.2.1 — FOR 'B' OCCUPANCY - LESS THAN 49 OCCUPANTS; FOR 'S' OCCUPANCY - LESS THAN 29 OCCUPANTS

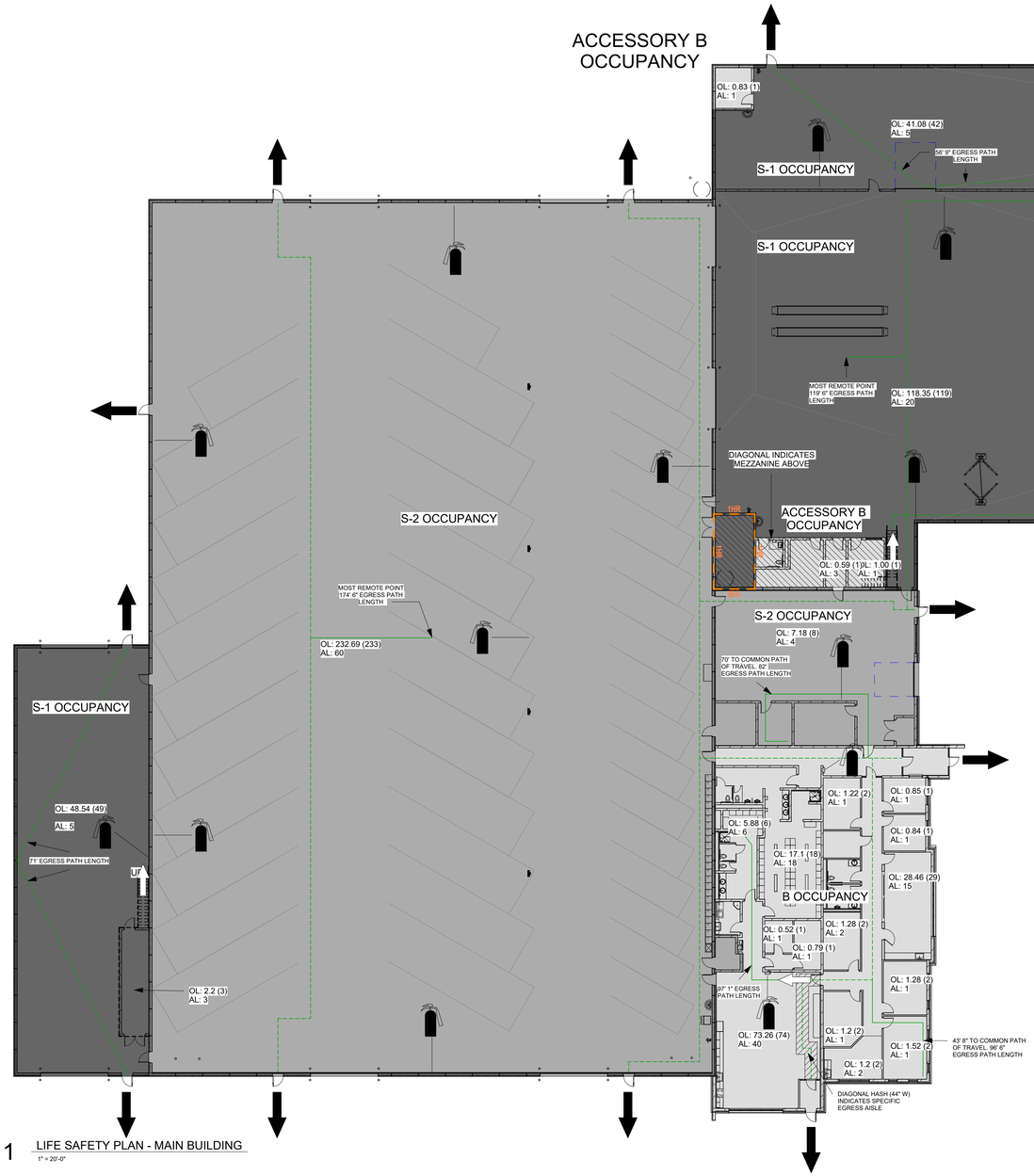
DEAD END CORRIDORS — TYPE 'S' — ALLOWED UP TO 50'

ROOF GUARDS: IBC 1013.5 — ANY SERVICEABLE ROOFTOP EQUIPMENT WITHIN 10 FEET OF ROOF EDGE REQUIRE GUARDRAILS.

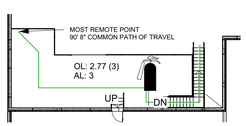
PARKING REQUIREMENTS — SEE CIVIL DRAWINGS

LIFE SAFETY KEY

MEANS OF EGRESS (FROM ROOM OR FLOOR)
MEANS OF EGRESS (EXIT DISCHARGE)
PATH OF TRAVEL
PATH OF EGRESS
FIRE EXTINGUISHER - 75'-0" MAX. TRAVEL DISTANCE
SEMI RECESSED FE CABINET. NOT TO PROTRUDE MORE THAN 4" FROM THE WALL (REFER TO SPEC). SURFACE MOUNTED FE UNLESS OTHERWISE NOTED
1 - HOUR FIRE BARRIER
MAINTAIN RATING FOR ENTIRE ASSEMBLY INCLUDING WALLS, DOORS, CEILINGS, PENETRATIONS, JOINTS, AND INTERSECTIONS.



1 LIFE SAFETY PLAN - MAIN BUILDING
1" = 20'-0"



2 LIFE SAFETY PLAN - MEZZANINE
1" = 20'-0"

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CONSTRUCTION MANAGER
Market & Johnson
Adding Value to Everything We Do

Jackson County Highway Facility
N5579 STATE HIGHWAY 54, Black River Falls, WI 54615

REVISIONS

	DATE	DESCRIPTION
1		

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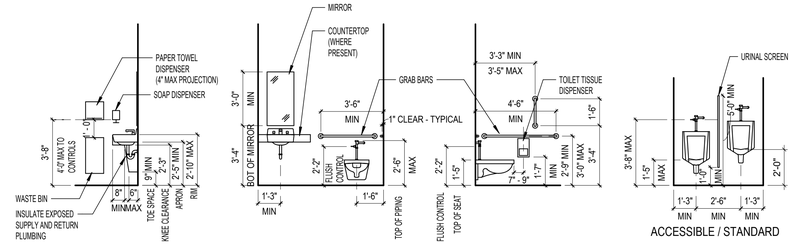
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BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

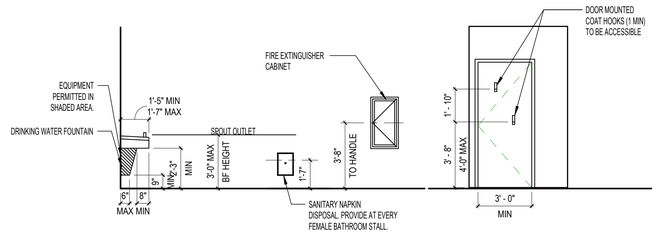
SHEET TITLE
LIFE SAFETY

SHEET
A001



LAVATORY - SINK MOUNTING HEIGHTS | WALL HUNG - TOILET MOUNTING HEIGHTS | URINAL MOUNTING HEIGHTS

ACCESSIBLE / STANDARD



MISC. ACCESSORIZED MOUNTING HEIGHTS

1 BARRIER-FREE - MOUNTING HEIGHTS (TLT) RESTROOMS GENERAL

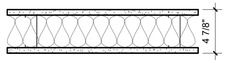
1/4" = 1'-0"

PARTITION TYPES



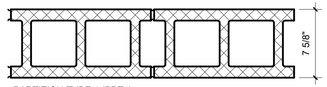
PARTITION TYPE 1A (PRT1A)

-5/8" GYPSUM WALL BOARD - ROOM SIDE
-3 5/8" METAL STUDS @ 16" O.C., BRACE TO STRUCTURE 48" O.C. MAX.
-EXTEND ASSEMBLY 4" ABOVE FINISHED CEILING



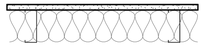
PARTITION TYPE 2 (PRT2)

-5/8" GYPSUM WALL BOARD - BOTH SIDES
-3 5/8" METAL STUDS @ 16" O.C., BRACE TO STRUCTURE 48" O.C. MAX.
-3 1/2" SOUND BATT INSULATION
-EXTEND GYPSUM BOARD AND BATT INSULATION TO UNDERSIDE OF STRUCTURE ABOVE; SEAL PERIMETER AND ALL PENETRATIONS.



PARTITION TYPE 4 (PRT4)

-8" CMU - RUNNING BOND
-HORIZONTAL JOINT REINFORCEMENT @ 16" O.C.
-EXTEND ASSEMBLY TO UNDERSIDE OF DECK/PLANK UNLESS NOTED OTHERWISE
-TOP COURSE BELOW JOIST BOTTOM TO BE BOND BEAM W/ (2) #5 REBAR
-CORE FILL
-SEE STRUCTURAL FOR BRACING AT PLANK ABOVE



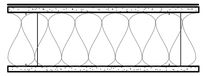
PARTITION TYPE 1B (PRT1B)

-5/8" GYPSUM WALL BOARD - ROOM SIDE
-3 5/8" METAL STUDS @ 16" O.C., BRACE TO STRUCTURE 48" O.C. MAX.
-3 1/2" SOUND BATT INSULATION
-EXTEND GYPSUM BOARD AND BATT INSULATION TO UNDERSIDE OF STRUCTURE ABOVE; SEAL PERIMETER AND ALL PENETRATIONS.



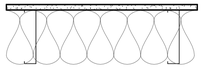
PARTITION TYPE 3 (PRT3)

-5/8" GYPSUM WALL BOARD - ROOM SIDE
-2 1/2" METAL STUDS @ 16" O.C., BRACE TO STRUCTURE 48" O.C. MAX.
-EXTEND ASSEMBLY 4" ABOVE FINISHED CEILING



PARTITION TYPE 5 (PRT5)

-FRP WALL PANEL
-5/8" GYPSUM WALL BOARD
-5 5/8" METAL STUDS @ 16" O.C., BRACE TO STRUCTURE 48" O.C. MAX.
-BATT INSULATION
-5/8" GYPSUM WALL BOARD
-EXTEND ASSEMBLY TO UNDERSIDE OF ROOF STRUCTURE



PARTITION TYPE 5 (PRT5B)

-5/8" GYPSUM WALL BOARD
-5 5/8" METAL STUDS @ 16" O.C., BRACE TO STRUCTURE 48" O.C. MAX.
-BATT INSULATION
-EXTEND ASSEMBLY TO UNDERSIDE OF ROOF STRUCTURE

NOTES

- ALL STUDS 20 GAUGE UNLESS NOTED OTHERWISE
- PROVIDE TWO 20 GAUGE STUDS AT ALL DOOR JAMBS
- PROVIDE INSULATION IN FLUTES OF DECK WHERE INSULATION IS FULL-HEIGHT
- ALL INTERIOR CMU PARTITIONS TO UTILIZE TYPE 'S' MORTAR
- PROVIDE WOOD BLOCKING WITHIN PARTITION WALLS AS NEEDED FOR FASTENING ALL WALL EQUIPMENT, ACCESSORIES, FURNITURE, AND CASEWORK - SEE DRAWINGS FOR LOCATIONS
- BULL NOSE CORNERS OF INTERIOR CMU BLOCKS AT DOOR OPENINGS



PARTITION TYPE 6 (PRT6)

-5/8" GYPSUM WALL BOARD
-7/8" FURRING HAT CHANNEL @ 16" O.C., BRACE TO STRUCTURE 48" O.C. MAX.

2 PARTITION TYPES

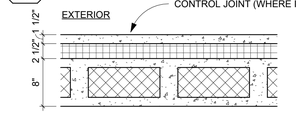
1 1/2" = 1'-0"

ASSEMBLY TYPES

WALLS

PRECAST ARCHITECTURAL CONCRETE

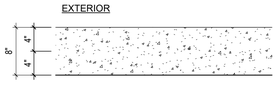
PNL1



INTERIOR
- 1 1/2" PRECAST CONCRETE FINISH PANEL
- 2 1/2" RIGID INSULATION
- 8" PRECAST CONCRETE STRUCTURAL CORE BACK-UP W/ INSULATED CORES

(WALL ASSEMBLY TO BE R-13.3 MIN.)

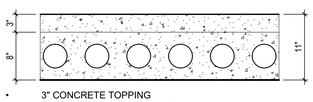
PNL2



INTERIOR
- 8" SMOOTH FINISH CONCRETE STRUCTURAL FACE

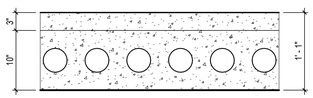
FLOORS

PC1



- 3" CONCRETE TOPPING
- 8" PRECAST CONCRETE STRUCTURAL FLOOR PANELS
- SEE STRUCTURAL DRAWINGS

PC2

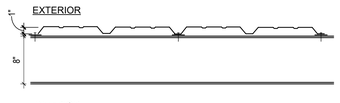


- 3" CONCRETE TOPPING
- 10" PRECAST CONCRETE STRUCTURAL FLOOR PANELS
- SEE STRUCTURAL DRAWINGS

CAST-IN-PLACE CONCRETE SLABS - SEE STRUCTURAL

METAL BUILDING WALL PANELS

PE1



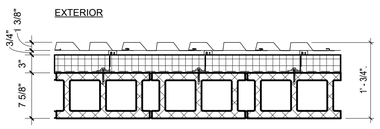
INTERIOR

PEMB PANEL WALL

- 1 - 1/4" 26 G REVERSE ROLLED METAL PANEL SYSTEM (INSTALL VERTICALLY) W/ EXPOSED FASTENERS BY MANUFACTURER
- 8" Z-GIRTS (INSTALLED HORIZONTALLY) W/ EXPOSED FASTENERS BY MANUFACTURER TO RIGID STEEL FRAME.

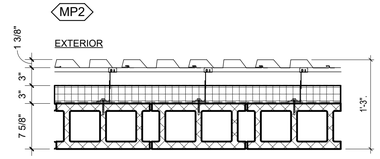
METAL PANEL WALL

MP1



INTERIOR
- PCCLAD - HIGHLINE C1 - COPPER PENNY
- PERFORATED HORIZONTAL S-RAIL
- THERMALLY BROKEN CLIP-AND-RAIL SYSTEM @ 16" O.C. W/ 3" RIGID INSULATION (R-8 MIN.)
- COMMERCIAL GRADE AIR, MOISTURE, VAPOR BARRIER
- 7-5/8" CONCRETE MASONRY UNITS
- (WALL ASSEMBLY TO BE R-13 MIN.)

MP2

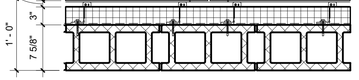


INTERIOR
- PACCLAD - HIGHLINE C1 - COPPER PENNY
- PERFORATED HORIZONTAL S-RAIL
- 6" THERMALLY BROKEN CLIP-AND-RAIL SYSTEM @ 16" O.C. W/ 3" RIGID INSULATION (R-8 MIN.)
- 3" AIR GAP
- COMMERCIAL GRADE AIR, MOISTURE, VAPOR BARRIER
- 7-5/8" CONCRETE MASONRY UNITS
- (WALL ASSEMBLY TO BE R-13 MIN.)

FIBER CEMENT WALL PANEL

FC1

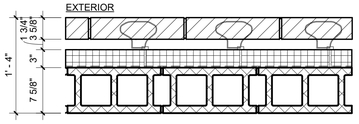
NOTE:
PANEL VERTICAL AND HORIZONTAL JOINT SPACING SHOULD BE 3/8" TYPICAL



INTERIOR
- AFC SWISSPEARL - PATINA ROUGH NXT - SAND 545 / CERACLAD - URBAN CEDAR - HONEY (SEE ELEVATIONS FOR LOCATIONS)
- PERFORATED HORIZONTAL S-RAIL
- THERMALLY BROKEN CLIP-AND-RAIL SYSTEM @ 16" O.C. W/ 3" RIGID INSULATION (R-8 MIN.)
- COMMERCIAL GRADE AIR, MOISTURE, VAPOR BARRIER
- 7-5/8" CONCRETE MASONRY UNITS
- (SEE EXTERIOR ELEVATIONS FOR PATTERN OF FIBER CEMENT PANELS)
- (WALL ASSEMBLY TO BE R-13 MIN.)

BLOCK VENEER WALL

BW1



INTERIOR
- COUNTY MATERIALS - PREMIER ULTRA BURNISHED - DAWN (15 5/8" x 3 5/8" x 7 5/8")
- 1-3/4" AIR CAVITY (w/MORTAR NET @ B.O.W)
- ADJUSTABLE MASONRY TIES @ 16" O.C. HORIZ. @ EVERY OTHER COURSE, ANCHORED TO CMU BACKUP
- 3" RIGID INSULATION (R-8 MIN.)
- COMMERCIAL GRADE AIR, MOISTURE, VAPOR BARRIER
- 7-5/8" CONCRETE MASONRY UNITS
- (WALL ASSEMBLY TO BE R-13 MIN.)

CEILINGS

ACT-1

2'-0" x 2'-0" SUSPENDED EXPOSED GRID ACOUSTIC CEILING TILE

C-1

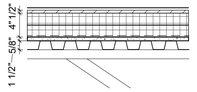
GYPSUM BOARD CEILING

C-2

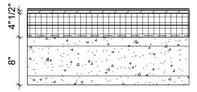
EXTERIOR LINERAL BOARD METAL SOFFIT

ROOFS

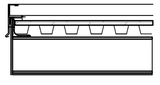
RF-1 (FLAT ROOF)
- FULLY ADHERED EPDM ROOF MEMBRANE
- COVER BOARD
- RIGID INSULATION MIN. (R30 MIN.)
- VAPOR BARRIER (SEE SPEC)
- GYPSUM SUBSTRATE BOARD
- METAL DECK (SEE STRUCTURAL)
- STEEL JOISTS (SEE STRUCTURAL)



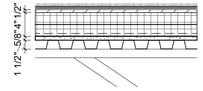
RF-2 (PRECAST ROOF)
- FULLY ADHERED EPDM ROOF MEMBRANE
- COVER BOARD
- RIGID INSULATION - TAPERED (R30 MIN.)
- VAPOR BARRIER (SEE SPEC)
- PRECAST PANEL - SEE STRUCTURAL



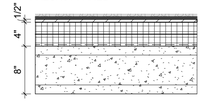
RF-3 (METAL STANDING SEAM ROOF)
- SNAP-CLAD METAL STANDING SEAM
- 1" COVER BOARD
- STEEL DECK
- STEEL CHANNEL
- METAL SOFFIT



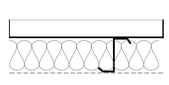
RF – 1 (ALTERNATE #1– MODIFIED BITUMEN):
- FLOOD AND GRAVEL SURFACE
- 2-PLY MODIFIED BITUMEN MEMBRANE
- COVER BOARD
- RIGID INSULATION (AVG R30)
- VAPOR BARRIER (SEE SPEC)
- GYPSUM SUBSTRATE BOARD
- METAL DECK (SEE STRUCTURAL)
- STEEL JOISTS (SEE STRUCTURAL)



RF – 2 (ALTERNATE #1 – MODIFIED BITUMEN):
- FLOOD AND GRAVEL SURFACE
- 2-PLY MODIFIED BITUMEN MEMBRANE
- RECOVERY BOARD
- RIGID INSULATION (AVG R30)
- VAPOR BARRIER (SEE SPEC)
- PRECAST PANEL



RF-4 (PEMB ROOF)
- GALVALUME ROOF MECHANICALLY FASTENED TO Z-PURLINS
- 1" THERMAL SPACER BLOCKS AT EACH Z-PURLIN
- 4" VINYL-FACED FIBERGLASS BLANKET - R-13 NOMINAL
- REINFORCED WHITE VAPOR RETARDER. INTERIOR FACING



3 ASSEMBLY TYPES

1" = 1'-0"

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	DATE	DESCRIPTION
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ADDENDUM 1 | 6.26.26

SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
ASSEMBLIES AND PARTITION TYPES

SHEET
A002

ARCHITECTURAL NOTES

CONSTRUCTION GENERAL NOTES

- ALL DOORS ARE DIMENSIONED 4" TO THE NEAREST STRUCTURALLY FACE U.N.O.
- DASHED LINES REPRESENT MOVEABLE FURNITURE TO BE OWNER FURNISHED, OWNER INSTALLED U.N.O.
- DIMENSIONS ON FLOOR PLAN ARE BASED ON FACE OF FINISHED WALL TO FACE OF FINISHED WALL (NOMINAL).
- VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE.
- REFER TO SHEET A600 FOR ROOM FINISH AND MATERIALS SCHEDULE.
- REFER TO SHEET A601 FOR DOOR/WINDOW SCHEDULES, NOTES, AND TYPES.
- VERIFY ALL FINAL LOCATIONS OF EQUIPMENT WITH OWNER BEFORE INSTALLATION.
- STAINLESS STEEL CORNER GUARD ON ALL OUTSIDE CORNERS OF GYPSUM. VERIFY ALL FINAL LOCATIONS WITH ARCHITECT.
- SEAL OR FILL ALL EXPOSED INTERIOR CONCRETE SLAB CONTROL JOINTS AND CONSTRUCTION JOINTS, TYP. PROVIDE TRAFFIC-RATED JOINT MATERIAL APPROPRIATE FOR VEHICLE MAINTENANCE, STORAGE, AND SHOP AREAS. REFER TO SPECIFICATION SECTIONS 03 30 00 AND 07 92 00.
- ALL BOLLARDS REFER TO DETAIL 3/A800 UNO.

STAIRS

STAIR 1:

CONCRETE FILLED METAL PAN STAIR

- 36" WIDE TREADS CONCRETE FILLED METAL PAN STAIR
- BROOM FINISHED SEALED CONCRETE.
- 24 RISERS @ 7", 12" TREADS (1" NOSING PROJECTION)
- PROVIDE 36" MIN. LONG LANDING ON 16TH RISER
- STRINGERS CAN BE TUBE SECTIONS OR C-CHANNEL.
- PROVIDE CONTINUOUS 1-1/2" DIAMETER METAL HANDRAILS BOTH SIDES, MOUNTED 36" ABOVE PLANE OF TREAD NOSING'S, WITH 1-1/2" MINIMUM CLEARANCE TO ADJACENT SURFACES. HANDRAILS SHALL EXTEND HORIZONTALLY 12" MINIMUM BEYOND TOP NOSING AND CONTINUE AT SLOPE FOR THE DEPTH OF ONE TREAD BEYOND BOTTOM RISER. ENDS SHALL RETURN TO WALL, GUARD, OR POST. HANDRAILS SHALL NOT ROTATE WITHIN FITTINGS.
- PROVIDE GUARDS AT OPEN SIDES, 42" HIGH MINIMUM ABOVE PLANE OF TREAD NOSING'S. GUARD OPENINGS SHALL NOT ALLOW PASSAGE OF A 4" SPHERE. TRIANGULAR OPENINGS FORMED BY TREAD, RISER, AND BOTTOM RAIL AT OPEN SIDES OF STAIR SHALL NOT ALLOW PASSAGE OF A 6" SPHERE.
- EXTEND GUARDRAILS FROM STAIR RUN TO FINISHED FLOOR AT ALL LOCATIONS SHOWN ON PLAN.
- PROVIDE A 1-1/2" DIAMETER STEEL TUBE GUARD RAIL BENEATH THE OPEN SIDE OF THE STAIR. LOCATED DIRECTLY BELOW AND ALIGNED WITH THE OUTSIDE FACE OF THE STRINGER, FOR THE FULL LENGTH OF THE AREA WHERE HEAD CLEARANCE IS LESS THAN 80 INCHES. INSTALL THE TOP RAIL AT 18 INCHES ABOVE THE FINISHED FLOOR. SET POSTS 4 INCHES INTO THE SLAB IN CORED HOLES AND SECURE WITH NON-SHRINK GROUT. **COORDINATE WITH RADIANT TUBING.**
- PAINT ALL METAL. SEE FINISH LEGEND
- ALL STAIR DETAILS AND STRUCTURAL CONNECTIONS BY STAIR SUPPLIER

STAIR 2:

GALVANIZED STEEL GRATE STAIR.

- 36" WIDE STEEL BAR GRATING TREADS.
- HOT-DIP GALVANIZED FINISH FOR ALL STAIR COMPONENTS.
- 18 RISERS @ 7", 12" TREADS (1" NOSING PROJECTION)
- STRINGERS CAN BE TUBE SECTIONS OR C-CHANNEL.
- PROVIDE CONTINUOUS 1-1/2" DIAMETER METAL HANDRAILS BOTH SIDES, MOUNTED 36" ABOVE PLANE OF TREAD NOSINGS, WITH 1-1/2" MINIMUM CLEARANCE TO ADJACENT SURFACES. HANDRAILS SHALL EXTEND HORIZONTALLY 12" MINIMUM BEYOND TOP NOSING AND CONTINUE AT SLOPE FOR THE DEPTH OF ONE TREAD BEYOND BOTTOM RISER. ENDS SHALL RETURN TO WALL, GUARD, OR POST. HANDRAILS SHALL NOT ROTATE WITHIN FITTINGS.
- PROVIDE GUARDS AT OPEN SIDES, 42" HIGH MINIMUM ABOVE PLANE OF TREAD NOSINGS. GUARD OPENINGS SHALL NOT ALLOW PASSAGE OF A 4" SPHERE. TRIANGULAR OPENINGS FORMED BY TREAD, RISER, AND BOTTOM RAIL AT OPEN SIDES OF STAIR SHALL NOT ALLOW PASSAGE OF A 6" SPHERE.
- EXTEND GUARDRAILS FROM STAIR RUN TO FINISHED FLOOR AT ALL LOCATIONS SHOWN ON PLAN.
- PROVIDE A 1-1/2" DIAMETER STEEL TUBE GUARD RAIL BENEATH THE OPEN SIDE OF THE STAIR. LOCATED DIRECTLY BELOW AND ALIGNED WITH THE OUTSIDE FACE OF THE STRINGER, FOR THE FULL LENGTH OF THE AREA WHERE HEAD CLEARANCE IS LESS THAN 80 INCHES. INSTALL THE TOP RAIL AT 18 INCHES ABOVE THE FINISHED FLOOR. SET POSTS 4 INCHES INTO THE SLAB IN CORED HOLES AND SECURE WITH NON-SHRINK GROUT. **COORDINATE WITH RADIANT TUBING.**
- ALL METAL COMPONENTS TO BE HOT-DIP GALVANIZED.
- PAINT ALL METAL. SEE FINISH LEGEND
- ALL STAIR DETAILS AND STRUCTURAL CONNECTIONS BY STAIR SUPPLIER

STAIR 3:

STEEL GRATE STAIR.

- 36" WIDE STEEL BAR GRATING TREADS
- 3 RISERS @ 7", 12" TREADS (1" NOSING PROJECTION)
- STRINGERS: TUBE SECTIONS OR C-CHANNEL, SHOP PRIMED AND FIELD PAINTED
- PROVIDE CONTINUOUS 1-1/2" DIAMETER METAL HANDRAILS BOTH SIDES, MOUNTED 36" ABOVE PLANE OF TREAD NOSINGS, WITH 1-1/2" MINIMUM CLEARANCE TO ADJACENT SURFACES. HANDRAILS SHALL EXTEND FOR DEPTH OF ONE TREAD BEYOND BOTTOM RISER. ENDS SHALL RETURN TO WALL. HANDRAILS SHALL NOT ROTATE WITHIN FITTINGS.
- ALL STAIR DETAILS AND STRUCTURAL CONNECTIONS BY STAIR SUPPLIER
- PAINT ALL METAL PT-5.

CONSTRUCTION KEY NOTES

1. WATER HOSE - REFER TO PLUMBING DRAWINGS FOR SIZE AND LOCATIONS.
2. COMPRESSED AIR HOSE - REFER TO PLUMBING DRAWINGS FOR SIZE AND LOCATIONS.
3. BULK FLUID DISTRIBUTION REELS ON FABRICATED STAINLESS STEEL FRAME WITH INTEGRAL WASTE OIL COLLECTION - (SEE BULK FLUID SYSTEM SPEC. & SEE DETAIL 1/A800)
4. MOP SINK AND MOP HOLDERS
5. CABLE REEL 120V - REFER TO ELECTRICAL DRAWINGS.
6. EMERGENCY EYE WASH STATION (EYEWASH ONLY)- REFER TO PLUMBING DRAWINGS.
7. 2" WATER REEL
8. CONRETE FILLED METAL BOLLARD - 6" DIAMETER SEE DETAIL 3/A800
9. REMOVABLE METAL BOLLARD - 6" DIAMETER SEE DETAIL 2/A800
10. UTILITY CENTER - (2) COMPRESSED AIR REELS, (2) 110V/220V REELS, (1) WATER HOSE REEL (SEE DETAIL 1/A800)
11. WALL MOUNTED LIGHTS - SEE ELECTRICAL
12. METAL GRATE FLOOR OVER 6" DEPRESSED PIT - REFER TO STRUCTURAL DRAWINGS
13. PEDESTAL MOUNTED LOCKER ROOM BENCH WITH WOOD TOP SEE PLAN FOR LENGTHS AND DEPTHS
14. METAL LOCKERS ON 4" CONCRETE WITH EPOXY FINISH AND SLOPED TOP PANEL - 24" WIDE BY 18" DEEP BY 72" TALL (5% OF LOCKERS TO BE ADA)
15. 4" WIDE PAINTED FLOOR STRIPING. VERIFY LOCATIONS WITH ARCHITECT/OWNER PRIOR TO PAINTING
16. ADA HIGH/LOW DRINKING FOUNTAINS
17. METAL GUARD RAIL AT 3'-6" AFF.
18. BULK FLUID TANKS - REFER TO SPEC.
19. PROVIDE BAR SPIGOT TO DISPENSE WASHER FLUID FROM BULK FLUID ROOM - REFER TO SPEC.
20. DEF REEL
21. WASTE OIL TANK WITH CONCRETE HOUSEKEEPING PAD. COORDINATE FINAL SIZE AND THICKNESS WITH STRUCTURAL.
22. STEEL SERVICE POST - REFER TO STRUCTURAL. RUN ELECTRICAL & AIR TO SERVICE POST UNDER SLAB
23. PRESSURE WASHER WAND WITH SOAP DISPENSER ON WALL MOUNTED FESTOON SYSTEM.
24. CEILING MOUNTED CORD REEL - REFER TO ELECTRICAL.
25. MEZZANINE PIVOT GATE (SEE SPEC)
26. CASHIER WINDOW WORK COUNTER (SEE SPEC)
27. ARCHITECTURAL PROJECT PLAQUE, CONFIRM EXACT LOCATION WITH ARCHITECT. SEE DETAIL 4/A800
28. (25) 2'X2' TURN OUT LOCKERS ON 4" CONCRETE BASE
29. GLASS COVERED BULLETIN BOARD / DISPLAY CASE. CANNOT PROTRUDE MORE THAN 4" OFF THE WALL.
30. INTERIOR CFS-FRAMED ENCLOSURE WITH 10'-0" HIGH WALLS AND CFS JOIST-FRAMED CEILING/LID AT TOP OF WALLS. PROVIDE 5/8" GYP. BD. ON WALLS AND UNDERSIDE OF CEILING FRAMING, WITH BATT INSULATION IN WALL AND CEILING CAVITIES. CFS FRAMING SIZE, GAUGE, SPACING, BRACING, AND CONNECTIONS SHALL BE DELEGATED DESIGN. TOP OF ENCLOSURE SHALL NOT BE USED FOR STORAGE.
31. METAL FLOOR DIVIDER STRIP SPERATING EPOXY FLAKE FLOORING TO THE WEST AND EPOXY SWIRL FLOORING TO THE EAST. SEE DETAIL 12/A800
32. EXPOSED CONCRETE PIER 4'-0" A.F.F., SMOOTH FORMED FINISH WITH 3/4" CHAMFERED EDGES. PATCH AND FINISH ALL EXPOSED FACES TO PROVIDE UNIFORM APPEARANCE. FINISH PT-5 ONLY AT INTERIOR LOCATIONS. SEE STRUCTURAL FOR SIZE AND REINFORCING.

EQUIPMENT LEGEND

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	SPEC SECTION
A	TWO POST VEHICLE LIFT (CONFIRM EXACT LOCATION WITH OWNER)	CONTRACTOR	CONTRACTOR	14 45 13
B	DRIVE ON VEHICLE LIFT	CONTRACTOR	CONTRACTOR	14 45 13
C	HAND WASH SINK	CONTRACTOR	CONTRACTOR	SEE PLUMB
D	PPE VENDING MACHINE	CONTRACTOR	CONTRACTOR	11 57 00
E	CHARGING STATION FOR PORTABLE LIGHTS AND RADIOS, (16) 110V OUTLETS	CONTRACTOR	CONTRACTOR	SEE ELEC
F	STEAM PARTS WASHER	OWNER	OWNER	NA
G	SOLVENT BASED PARTS WASHER	CONTRACTOR	CONTRACTOR	11 57 00
H	STEEL MILL	OWNER	OWNER	NA
I	DRILL PRESS	OWNER	OWNER	NA
J	LATHE	OWNER	OWNER	NA
K	AIR COMPRESSOR	CONTRACTOR	CONTRACTOR	
L	BOOT WASH WITH SPLASH GUARDS	CONTRACTOR	CONTRACTOR	SEE PLUMB
M	CANTILEVER RACK FOR STEEL STOCK	CONTRACTOR	CONTRACTOR	10 56 29
N	LIFT POWER UNIT	CONTRACTOR	CONTRACTOR	14 45 13
O	WASHER AND DRYER	OWNER	OWNER	NA
P	(4) 6,000 GALLON TANKS, BRINE HOPPER, AND PUMP SKID (NOT PART OF SCOPE)	OWNER	OWNER	NA
Q	BAND SAW	OWNER	OWNER	NA
R	WELD TABLE 4'x4'	CONTRACTOR	CONTRACTOR	11 57 00
S	HEAVY HYDRAULIC PRESS	CONTRACTOR	CONTRACTOR	11 57 00
T	SHOP BENCH 3'x6'	CONTRACTOR	CONTRACTOR	11 57 00
U	SAND BLAST BOOTH	CONTRACTOR	CONTRACTOR	11 57 00
V	LARGE TIRE CHANGER	OWNER	OWNER	NA
W	TIRE CHANGER	OWNER	OWNER	NA
X	TIRE BALANCER	OWNER	OWNER	NA
Y	TIRE CAGE	OWNER	OWNER	NA
Z	TIRE RACK	CONTRACTOR	CONTRACTOR	10 56 29
AA	BOLT BIN	CONTRACTOR	CONTRACTOR	11 57 00
BB	HYDRAULIC CRIMPS / FITTING CABINET	CONTRACTOR	CONTRACTOR	11 57 00
CC	HYD. HOSE CRIMPER	OWNER	OWNER	NA
DD	SET OF (6) MOBILE COLUMN LIFTS	CONTRACTOR	CONTRACTOR	14 45 13
EE	10 TON BRIDGE CRANE. REFER TO STRUCTURAL DRWINGS	CONTRACTOR	CONTRACTOR	14 63 00
FF	(2) 5 TON BRIDGE CRANES. REFER TO STRUCTURAL DRAWINGS.	CONTRACTOR	CONTRACTOR	14 63 00
GG	EXHAUST REE WALL MOUNTED (T.O. ASSEMBLY 20' A.F.F.)	CONTRACTOR	CONTRACTOR	SEE MECH
HH	EXHAUST REEL CEILING MOUNTED	CONTRACTOR	CONTRACTOR	SEE MECH
II	EQUIPMENT BY OWNER (SEE PLUMBING)	OWNER	OWNER	NA
JJ	UNDERBODY WASH AND EQUIPMENT	CONTRACTOR	CONTRACTOR	11 11 26
KK	PRESSURE WASHER	CONTRACTOR	CONTRACTOR	11 11 26
LL	(3) BENCH GRINDERS (2) FLOOR MOUNTED (1) MOUNTED TO UTILITY RACK (KEY NOTE 10) CONFIRM EXACT LOCATION WITH OWNER	CONTRACTOR	CONTRACTOR	11 57 00
MM	DRILL PRESS	CONTRACTOR	CONTRACTOR	11 57 00
NN	PLASMA CUTTER	OWNER	OWNER	NA
OO	MIG WELDER	OWNER	OWNER	NA

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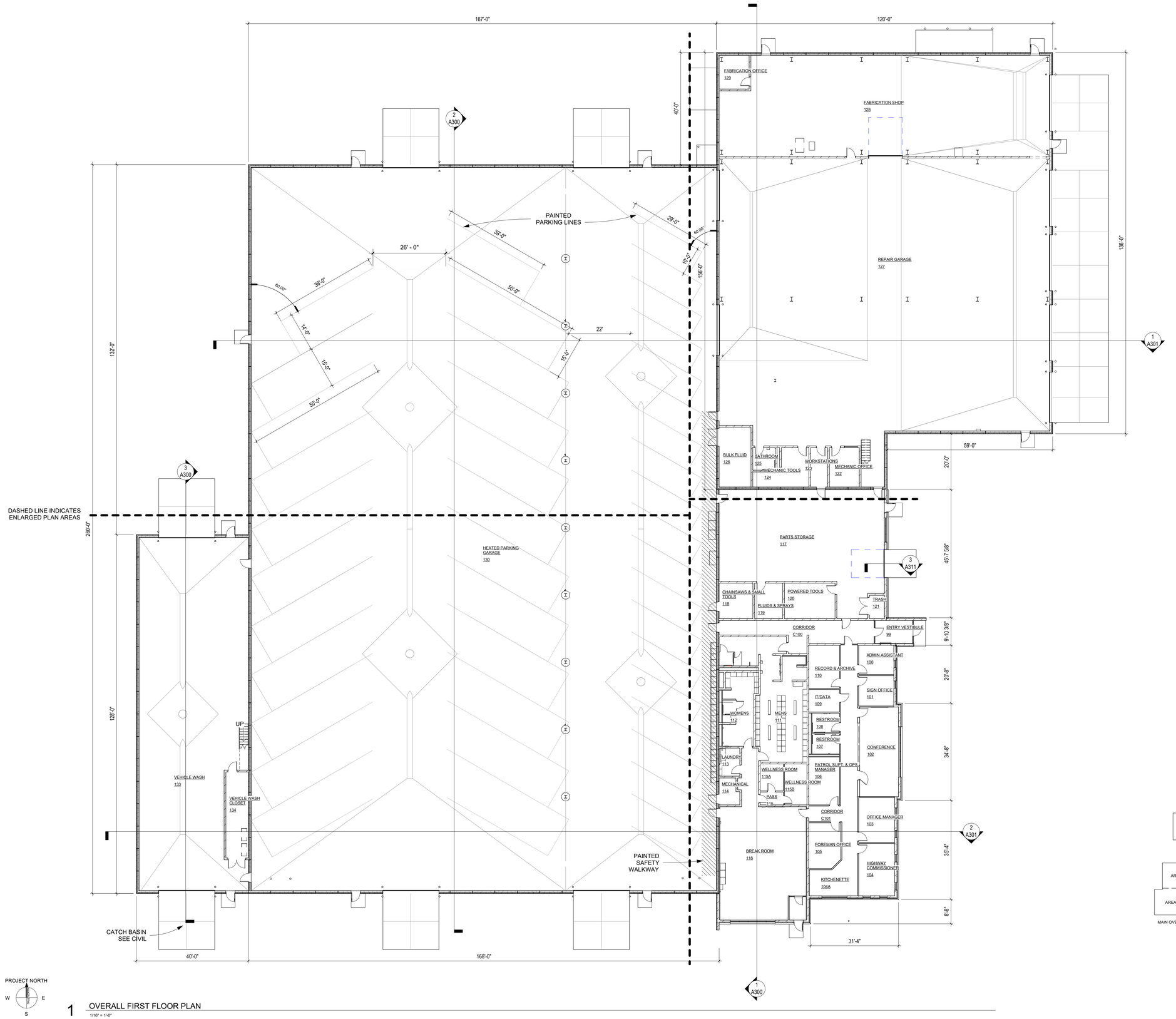
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BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
ARCHITECTURAL NOTES

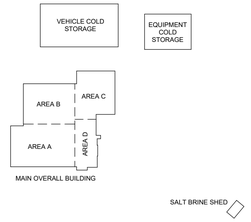
SHEET
A003



PROJECT NORTH

1 OVERALL FIRST FLOOR PLAN

1/16" = 1'-0"



KEY PLAN

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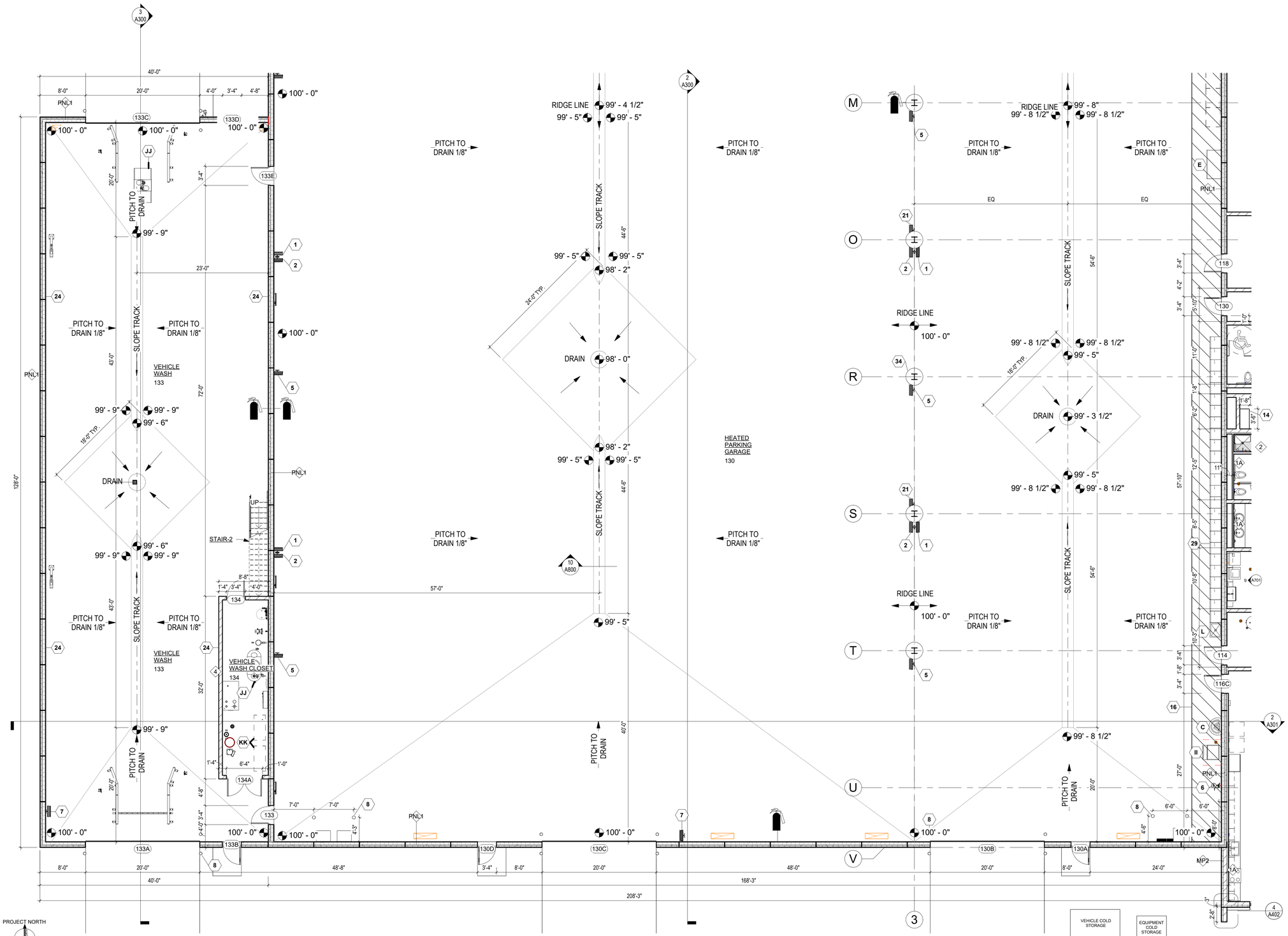
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BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
OVERALL FLOOR PLAN

SHEET
A100



1 FIRST FLOOR PLAN - AREA A

1/8" = 1'-0"

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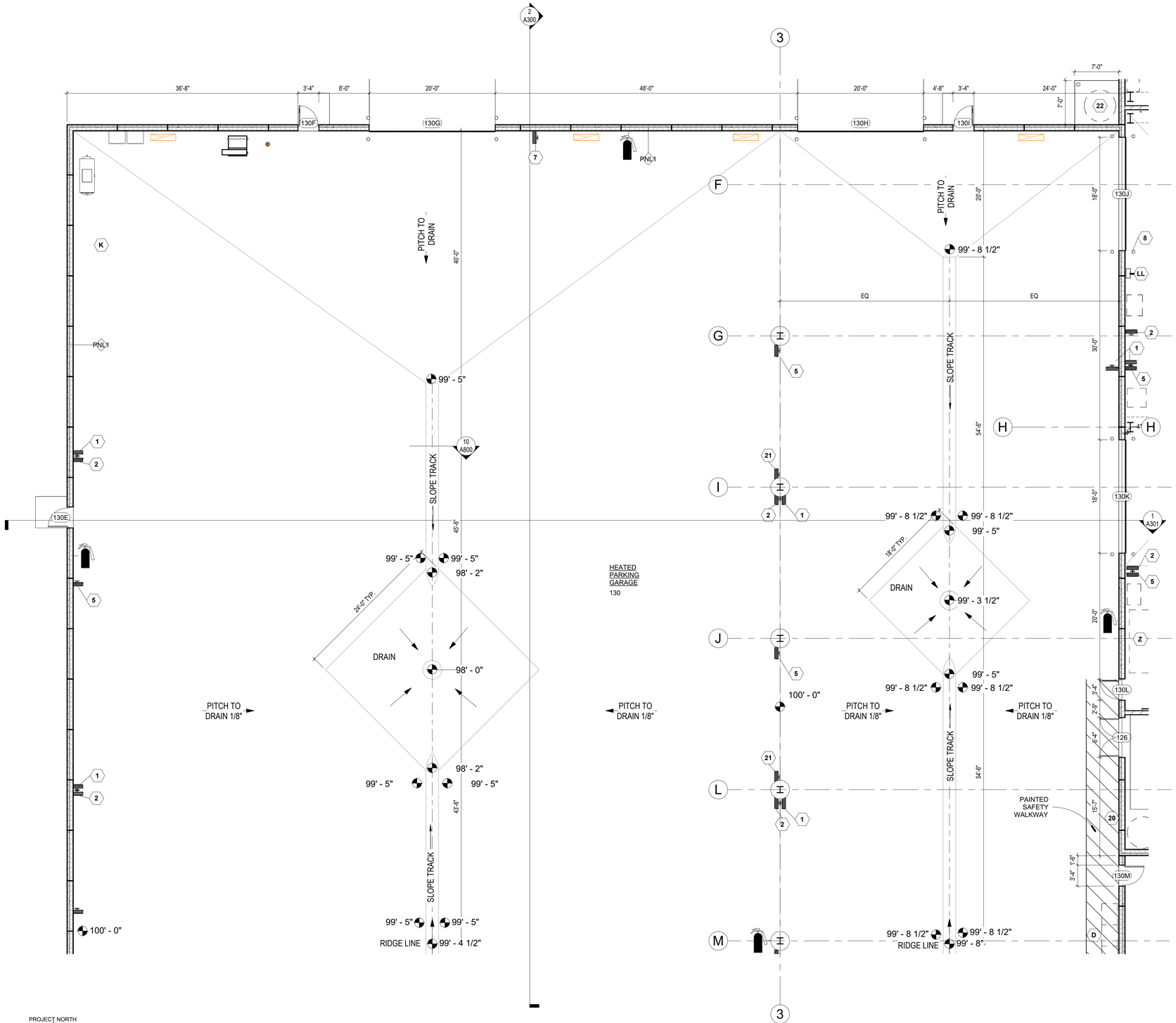
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BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
FIRST FLOOR PLAN - AREA A

SHEET
A101

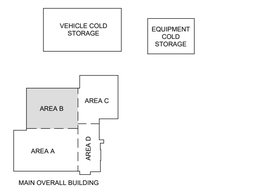


PROJECT NORTH

W E S

1 FIRST FLOOR PLAN - AREA B

1/8" = 1'-0"



KEY PLAN

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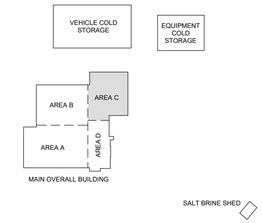
DATE
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SHEET TITLE
FIRST FLOOR PLAN - AREA B

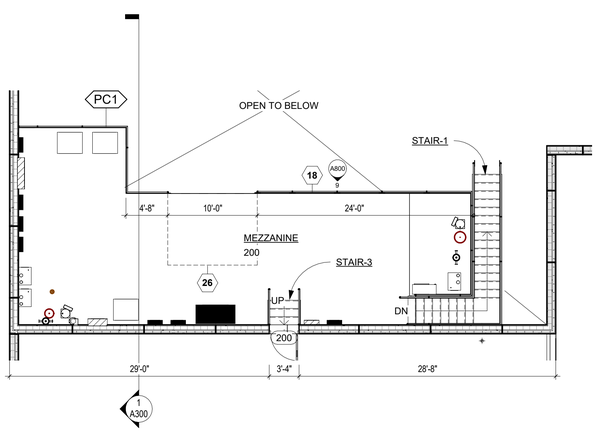
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EQUIPMENT LEGEND

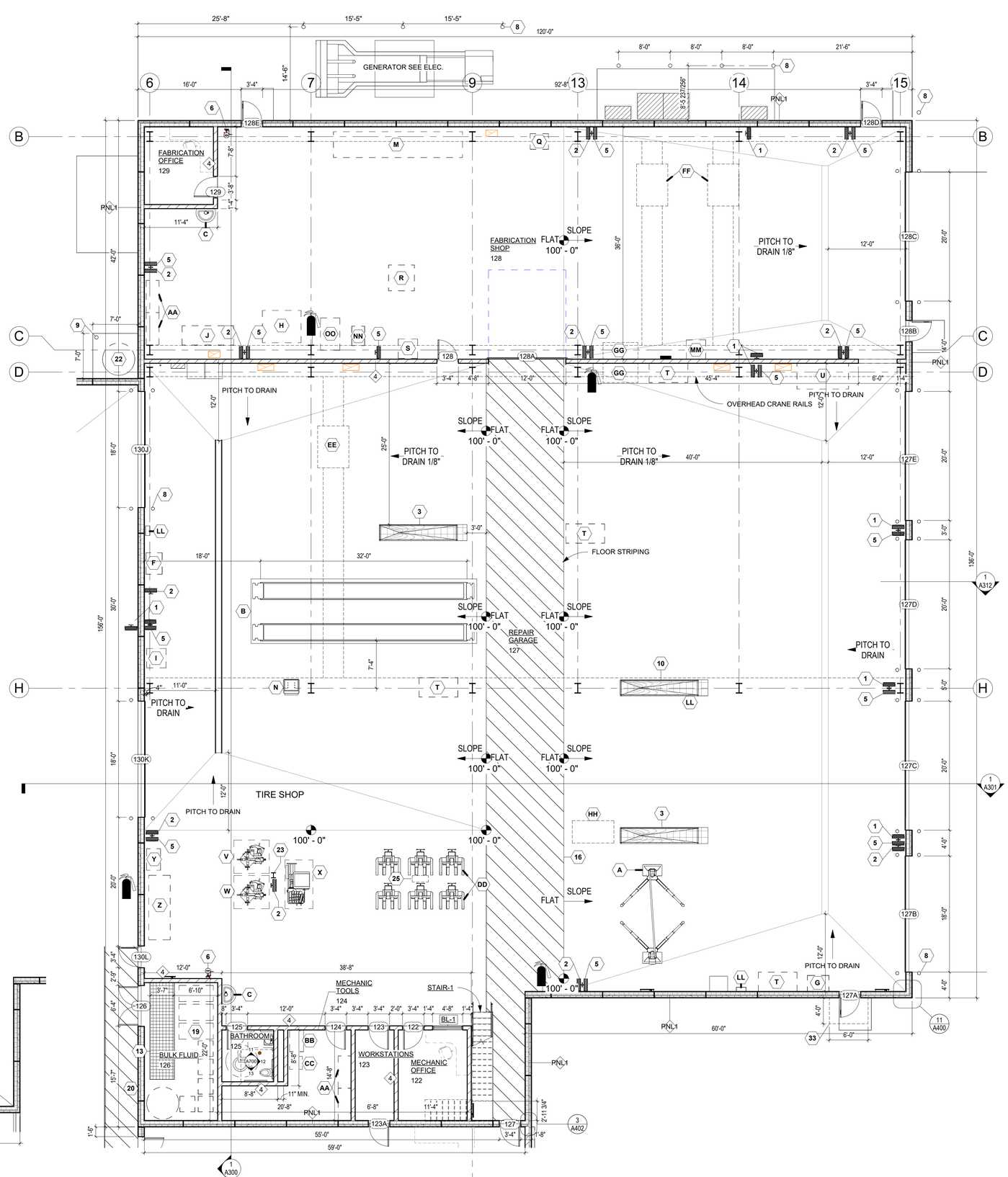
TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	SPEC SECTION
A	TWO POST VEHICLE LIFT (CONFIRM EXACT LOCATION WITH OWNER)	CONTRACTOR	CONTRACTOR	14 45 13
B	DRIVE ON VEHICLE LIFT	CONTRACTOR	CONTRACTOR	14 45 13
C	HAND WASH SINK	CONTRACTOR	CONTRACTOR	SEE PLUMB
D	PPE VENDING MACHINE	CONTRACTOR	CONTRACTOR	11 57 00
E	CHARGING STATION FOR PORTABLE LIGHTS AND RADIOS, (16) 110V OUTLETS	CONTRACTOR	CONTRACTOR	SEE ELEC
F	STEAM PARTS WASHER	OWNER	OWNER	NA
G	SOLVENT BASED PARTS WASHER	CONTRACTOR	CONTRACTOR	11 57 00
H	STEEL MILL	OWNER	OWNER	NA
I	DRILL PRESS	OWNER	OWNER	NA
J	LATHE	OWNER	OWNER	NA
K	AIR COMPRESSOR	CONTRACTOR	CONTRACTOR	
L	BOOT WASH WITH SPLASH GUARDS	CONTRACTOR	CONTRACTOR	SEE PLUMB
M	CANTILEVER RACK FOR STEEL STOCK	CONTRACTOR	CONTRACTOR	10 56 29
N	LIFT POWER UNIT	CONTRACTOR	CONTRACTOR	14 45 13
O	WASHER AND DRYER	OWNER	OWNER	NA
P	(4) 6,000 GALLON TANKS, BRINE HOPPER, AND PUMP SKID (NOT PART OF SCOPE)	OWNER	OWNER	NA
Q	BAND SAW	OWNER	OWNER	NA
R	WELD TABLE 4'x4'	CONTRACTOR	CONTRACTOR	11 57 00
S	HEAVY HYDRAULIC PRESS	CONTRACTOR	CONTRACTOR	11 57 00
T	SHOP BENCH 3'x6'	CONTRACTOR	CONTRACTOR	11 57 00
U	SAND BLAST BOOTH	CONTRACTOR	CONTRACTOR	11 57 00
V	LARGE TIRE CHANGER	OWNER	OWNER	NA
W	TIRE CHANGER	OWNER	OWNER	NA
X	TIRE BALANCER	OWNER	OWNER	NA
Y	TIRE CAGE	OWNER	OWNER	NA
Z	TIRE RACK	CONTRACTOR	CONTRACTOR	10 56 29
AA	BOLT BIN	CONTRACTOR	CONTRACTOR	11 57 00
BB	HYDRAULIC CRIMPS / FITTING CABINET	CONTRACTOR	CONTRACTOR	11 57 00
CC	HYD. HOSE CRIMPER	OWNER	OWNER	NA
DD	SET OF (6) MOBILE COLUMN LIFTS	CONTRACTOR	CONTRACTOR	14 45 13
EE	10 TON BRIDGE CRANE. REFER TO STRUCTURAL DRWINGS	CONTRACTOR	CONTRACTOR	14 63 00
FF	(2) 5 TON BRIDGE CRANES. REFER TO STRUCTURAL DRAWINGS.	CONTRACTOR	CONTRACTOR	14 63 00
GG	EXHAUST REE WALL MOUNTED (T.O. ASSEMBLY 20' A.F.F.)	CONTRACTOR	CONTRACTOR	SEE MECH
HH	EXHAUST REEL CEILING MOUNTED	CONTRACTOR	CONTRACTOR	SEE MECH
II	EQUIPMENT BY OWNER (SEE PLUMBING)	OWNER	OWNER	NA
JJ	UNDERBODY WASH AND EQUIPMENT	CONTRACTOR	CONTRACTOR	11 11 26
KK	PRESSURE WASHER	CONTRACTOR	CONTRACTOR	11 11 26
LL	(3) BENCH GRINDERS (2) FLOOR MOUNTED (1) MOUNTED TO UTILITY RACK (KEY NOTE 10) CONFIRM EXACT LOCATION WITH OWNER	CONTRACTOR	CONTRACTOR	11 57 00
MM	DRILL PRESS	CONTRACTOR	CONTRACTOR	11 57 00
NN	PLASMA CUTTER	OWNER	OWNER	NA
OO	MIG WELDER	OWNER	OWNER	NA



KEY PLAN



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



PROJECT NORTH

2 FIRST FLOOR PLAN - AREA C
1/8" = 1'-0"

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SUBMITTAL
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
FIRST FLOOR PLAN - AREA C

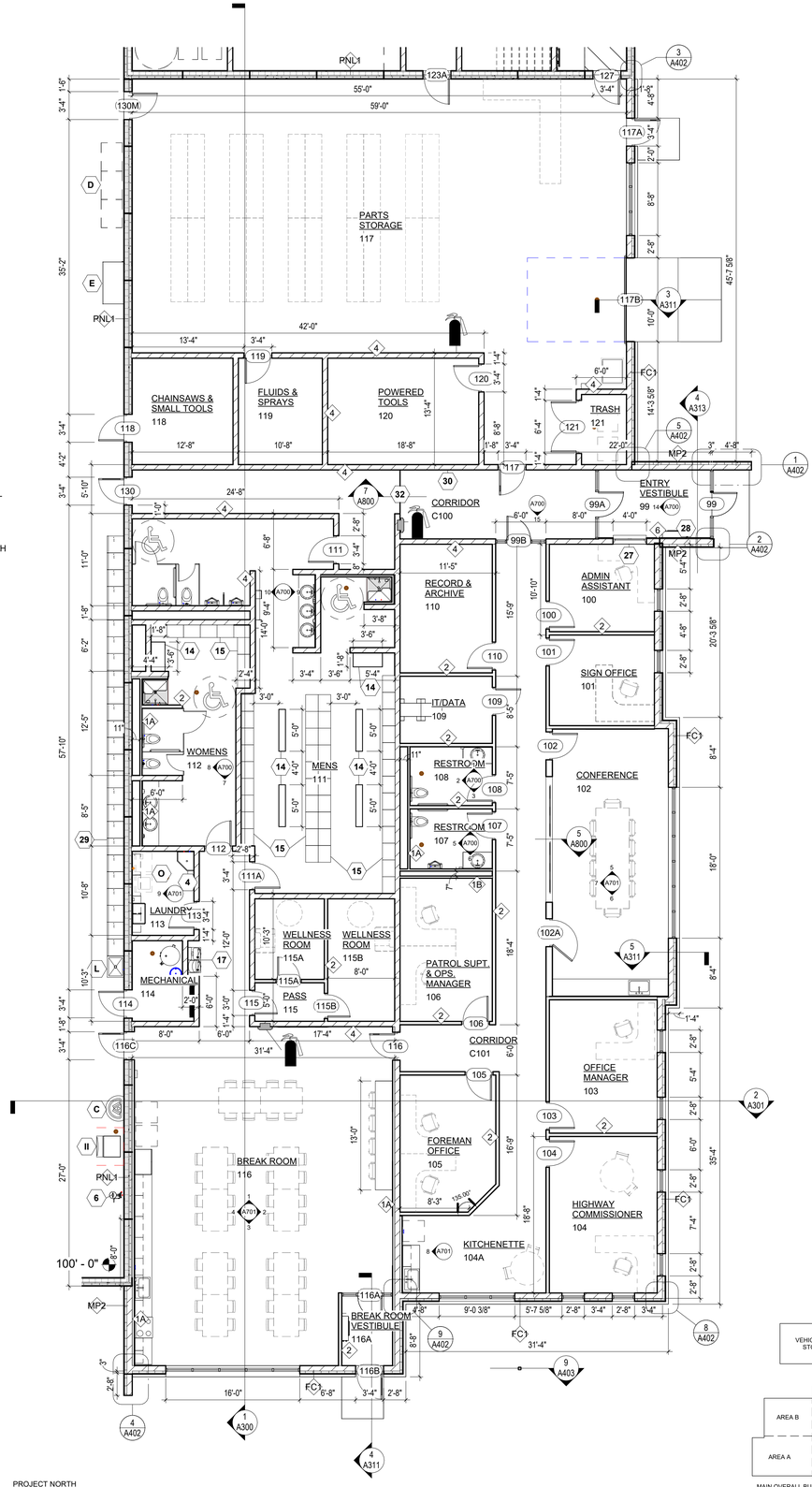
SHEET
A103

CONSTRUCTION KEY NOTES

1 WATER HOSE - REFER TO PLUMBING DRAWINGS FOR SIZE AND LOCATIONS.
2 COMPRESSED AIR HOSE - REFER TO PLUMBING DRAWINGS FOR SIZE AND LOCATIONS.
3 BULK FLUID DISTRIBUTION REELS ON FABRICATED STAINLESS STEEL FRAME WITH INTEGRAL WASTE OIL COLLECTION -
(SEE BULK FLUID SYSTEM SPEC. & SEE DETAIL 1/A800)
4 MOP SINK AND MOP HOLDERS
5 CABLE REEL 120V - REFER TO ELECTRICAL DRAWINGS.
6 EMERGENCY EYE WASH STATION (EYEWASH ONLY)- REFER TO PLUMBING DRAWINGS.
7 2" WATER REEL
8 CONRETE FILLED METAL BOLLARD - 6" DIAMETER SEE DETAIL 3/A800
9 REMOVABLE METAL BOLLARD - 6" DIAMETER SEE DETAIL 2/A800
10 UTILITY CENTER - (2) COMPRESSED AIR REELS, (2) 110V/220V REELS, (1) WATER HOSE REEL (SEE DETAIL 1/A800)
12 WALL MOUNTED LIGHTS - SEE ELECTRICAL
13 METAL GRATE FLOOR OVER 6" DEPRESSED PIT - REFER TO STRUCTURAL DRAWINGS
14 PEDESTAL MOUNTED LOCKER ROOM BENCH WITH WOOD TOP SEE PLAN FOR LENGTHS AND DEPTHS
15 METAL LOCKERS ON 4" CONCRETE WITH EPOXY FINISH AND SLOPED TOP PANEL - 24" WIDE BY 18" DEEP BY 72" TALL (5% OF LOCKERS TO BE ADA)
16 4" WIDE PAINTED FLOOR STRIPING. VERIFY LOCATIONS WITH ARCHITECT/OWNER PRIOR TO PAINTING
17 ADA HIGH/LOW DRINKING FOUNTAINS
18 METAL GUARD RAIL AT 3'-6" AFF.
19 BULK FLUID TANKS - REFER TO SPEC.
20 PROVIDE BAR SPIGOT TO DISPENSE WASHER FLUID FROM BULK FLUID ROOM - REFER TO SPEC.
21 DEF REEL.
22 WASTE OIL TANK WITH CONCRETE HOUSEKEEPING PAD. COORDINATE FINAL SIZE AND THICKNESS WITH STRUCTURAL.
23 STEEL SERVICE POST - REFER TO STRUCTURAL. RUN ELECTRICAL & AIR TO SERVICE POST UNDER SLAB
24 PRESSURE WASHER WAND WITH SOAP DISPENSER ON WALL MOUNTED FESTOON SYSTEM.
25 CEILING MOUNTED CORD REEL - REFER TO ELECTRICAL.
26 MEZZANINE PIVOT GATE (SEE SPEC)
27 CASHIER WINDOW WORK COUNTER (SEE SPEC)
28 ARCHITECTURAL PROJECT PLAQUE, CONFIRM EXACT LOCATION WITH ARCHITECT. SEE DETAIL 4/A800
29 (25) 2'X2' TURN OUT LOCKERS ON 4" CONCRETE BASE
30 GLASS COVERED BULLETIN BOARD / DISPLAY CASE. CANNOT PROTRUDE MORE THAN 4" OFF THE WALL.
31 INTERIOR CFS-FRAMED ENCLOSURE WITH 10'-0" HIGH WALLS AND CFS JOIST-FRAMED CEILING/LID AT TOP OF WALLS. PROVIDE 5/8" GYP. BD. ON WALLS AND UNDERSIDE OF CEILING FRAMING, WITH BATT INSULATION IN WALL AND CEILING CAVITIES. CFS FRAMING SIZE, GAUGE, SPACING, BRACING, AND CONNECTIONS SHALL BE DELEGATED DESIGN. TOP OF ENCLOSURE SHALL NOT BE USED FOR STORAGE.
32 METAL FLOOR DIVIDER STRIP SPERATING EPOXY FLAKE FLOORING TO THE WEST AND EPOXY SWIRL FLOORING TO THE EAST. SEE DETAIL 12/A800
34 EXPOSED CONCRETE PIER 4'-0" A.F.F., SMOOTH FORMED FINISH WITH 3/4" CHAMFERED EDGES. PATCH AND FINISH ALL EXPOSED FACES TO PROVIDE UNIFORM APPEARANCE. FINISH PT-5 ONLY AT INTERIOR LOCATIONS. SEE STRUCTURAL FOR SIZE AND REINFORCING.

CONSTRUCTION GENERAL NOTES

- ALL DOORS ARE DIMENSIONED 4" TO THE NEAREST STRUCTURALLY FACE U.N.O.
- DASHED LINES REPRESENT MOVEABLE FURNITURE TO BE OWNER FURNISHED, OWNER INSTALLED U.N.O.
- DIMENSIONS ON FLOOR PLAN ARE BASED ON FACE OF FINISHED WALL TO FACE OF FINISHED WALL (NOMINAL).
- VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE.
- REFER TO SHEET A600 FOR ROOM FINISH AND MATERIALS SCHEDULE.
- REFER TO SHEET A601 FOR DOOR/WINDOW SCHEDULES, NOTES, AND TYPES.
- VERIFY ALL FINAL LOCATIONS OF EQUIPMENT WITH OWNER BEFORE INSTALLATION.
- STAINLESS STEEL CORNER GUARD ON ALL OUTSIDE CORNERS OF GYPSUM. VERIFY ALL FINAL LOCATIONS WITH ARCHITECT.
- SEAL OR FILL ALL EXPOSED INTERIOR CONCRETE SLAB CONTROL JOINTS AND CONSTRUCTION JOINTS, TYP. PROVIDE TRAFFIC-RATED JOINT MATERIAL APPROPRIATE FOR VEHICLE MAINTENANCE, STORAGE, AND SHOP AREAS. REFER TO SPECIFICATION SECTIONS 03 30 00 AND 07 92 00.
- ALL BOLLARDS REFER TO DETAIL 3/A800 UNO.



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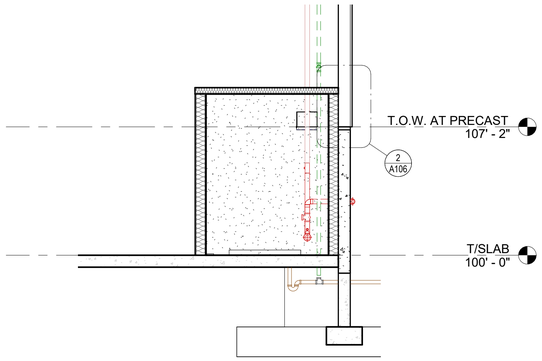
SET TYPE
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BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

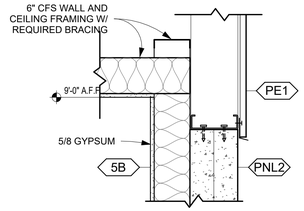
SHEET TITLE
FIRST FLOOR PLAN - AREA D

SHEET
A104



1 WALL SECTION - VEHICLE COLD STORAGE ENCLOSURE

1/4" = 1'-0"



2 FRAMING DETAIL - VEHICLE COLD STORAGE ENCLOSURE

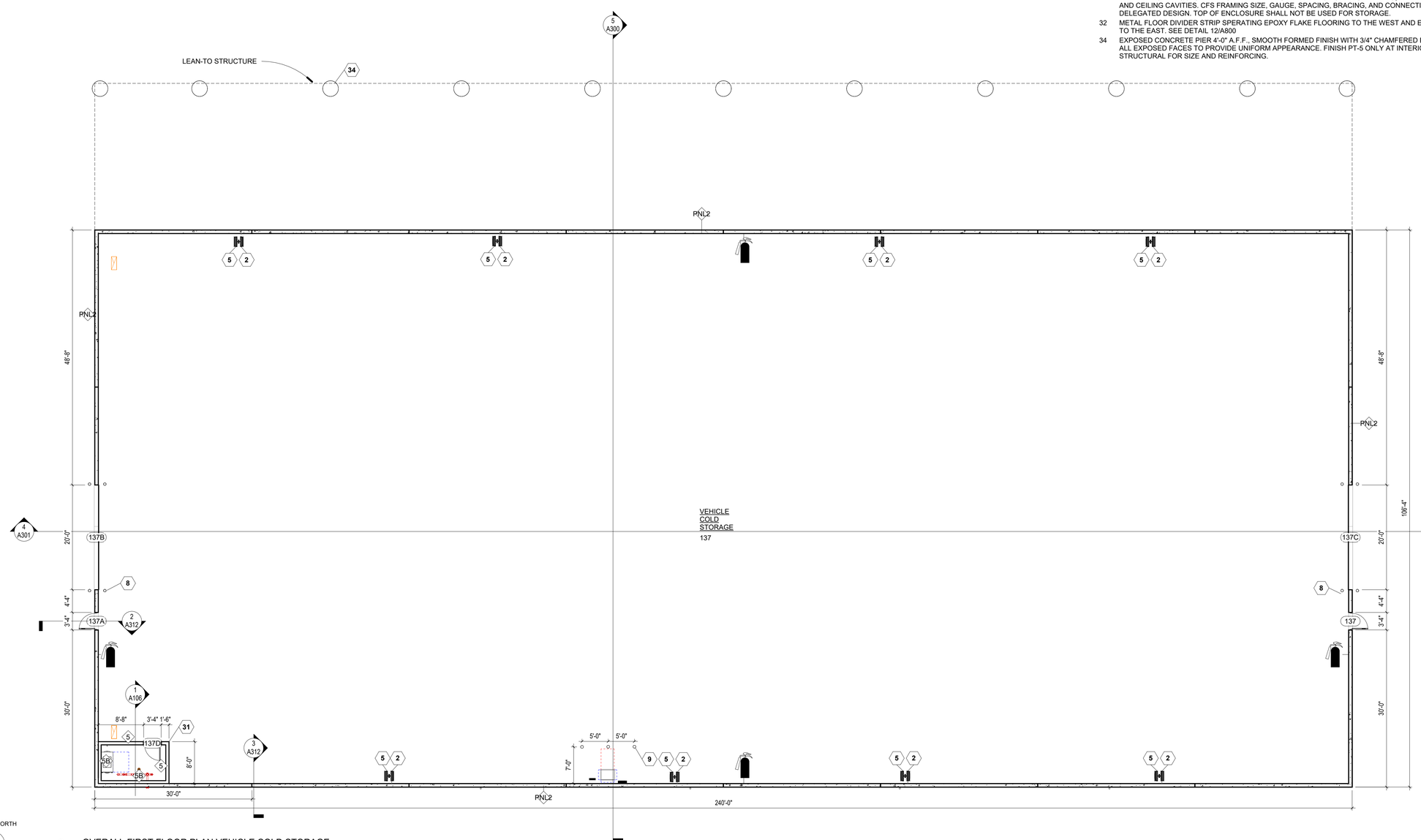
1" = 1'-0"

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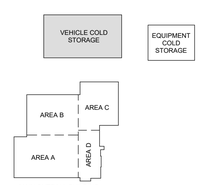
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1. WATER HOSE - REFER TO PLUMBING DRAWINGS FOR SIZE AND LOCATIONS.
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5. CABLE REEL 120V - REFER TO ELECTRICAL DRAWINGS.
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19. BULK FLUID TANKS - REFER TO SPEC.
20. PROVIDE BAR SPIGOT TO DISPENSE WASHER FLUID FROM BULK FLUID ROOM - REFER TO SPEC.
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3 OVERALL FIRST FLOOR PLAN VEHICLE COLD STORAGE

1" = 10'-0"



SALT BRINE SHED

KEY PLAN

PROJECT NORTH

W E S

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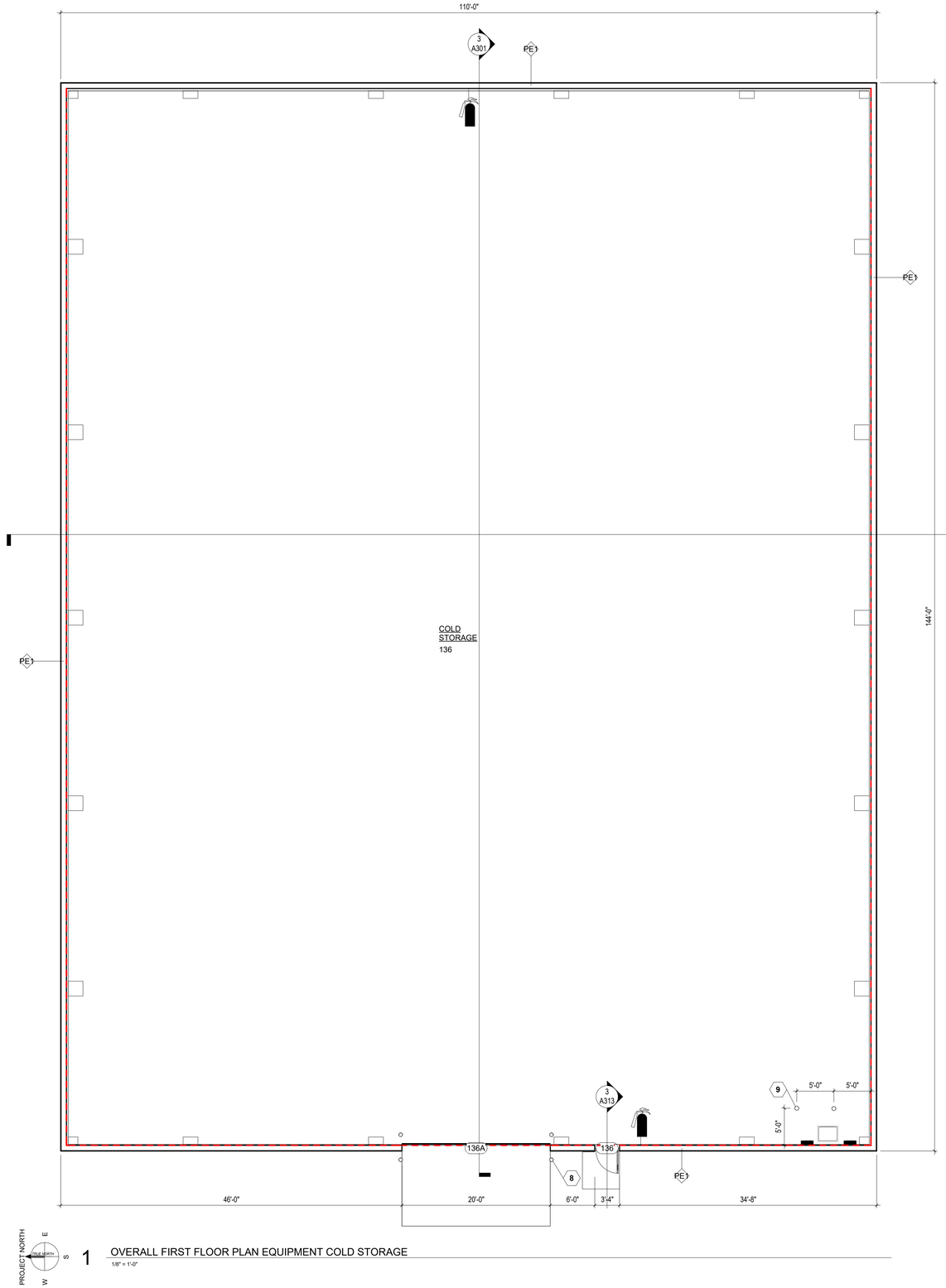
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
FIRST FLOOR PLAN - VEHICLE COLD STORAGE

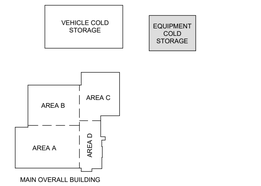
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A106



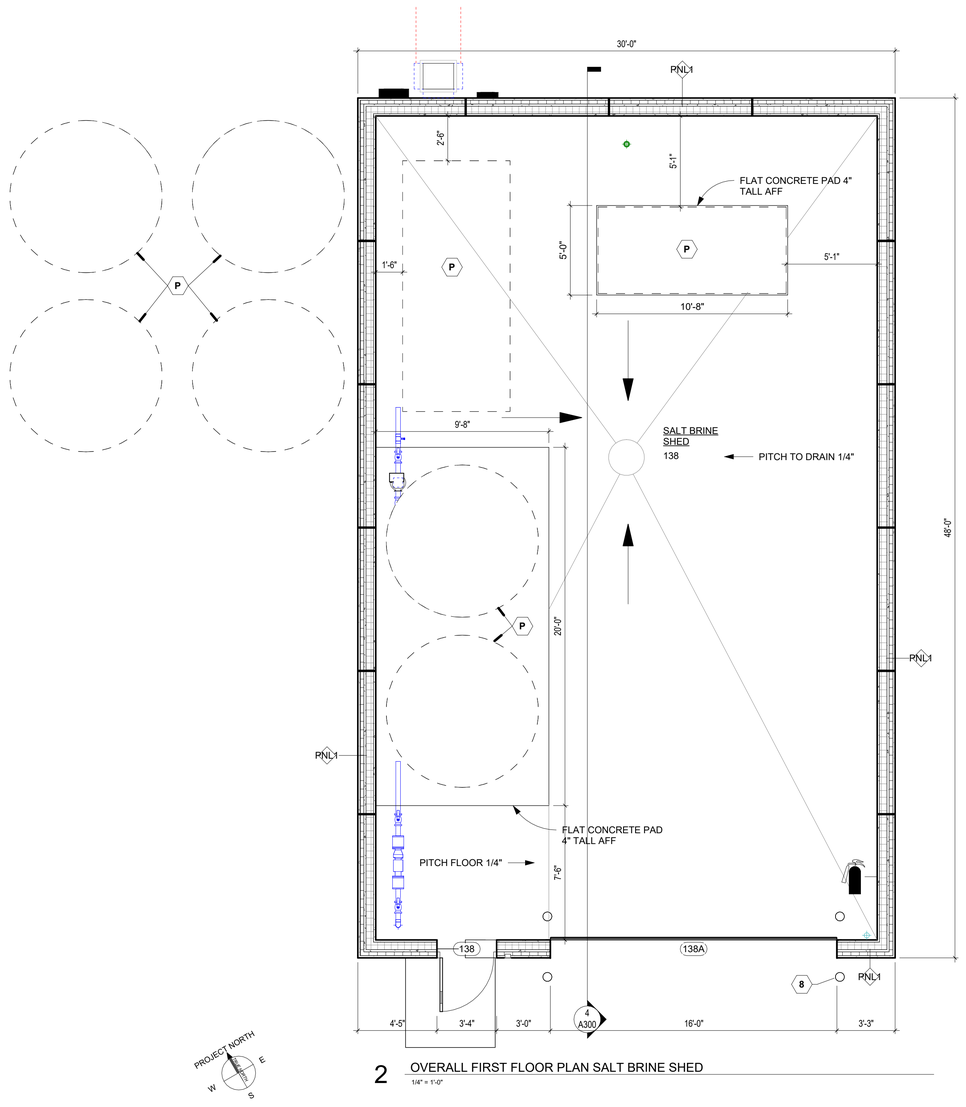
PROJECT NORTH
TRUE NORTH
N
E
S
W

1 OVERALL FIRST FLOOR PLAN EQUIPMENT COLD STORAGE

1/8" = 1'-0"



KEY PLAN



PROJECT NORTH
TRUE NORTH
N
E
S
W

2 OVERALL FIRST FLOOR PLAN SALT BRINE SHED

1/4" = 1'-0"

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BARRIENTOS DESIGN PROJECT NUMBER
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DATE
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SHEET TITLE
FIRST FLOOR PLAN - EQUIPMENT COLD STORAGE

SHEET
A107

RCP - REFLECTED CEILING PLAN - SYMBOLS LEGEND

ACT-1 2'-0"x2'-0" SUSPENDED EXPOSED ACOUSTIC CEILING TILE

GYPSUM BOARD CEILING OR BULKHEAD

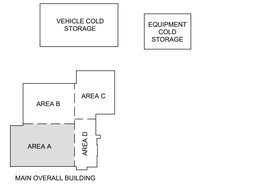
SEE MEP DRAWINGS FOR OTHER SYMBOLS

RCP - GENERAL NOTES

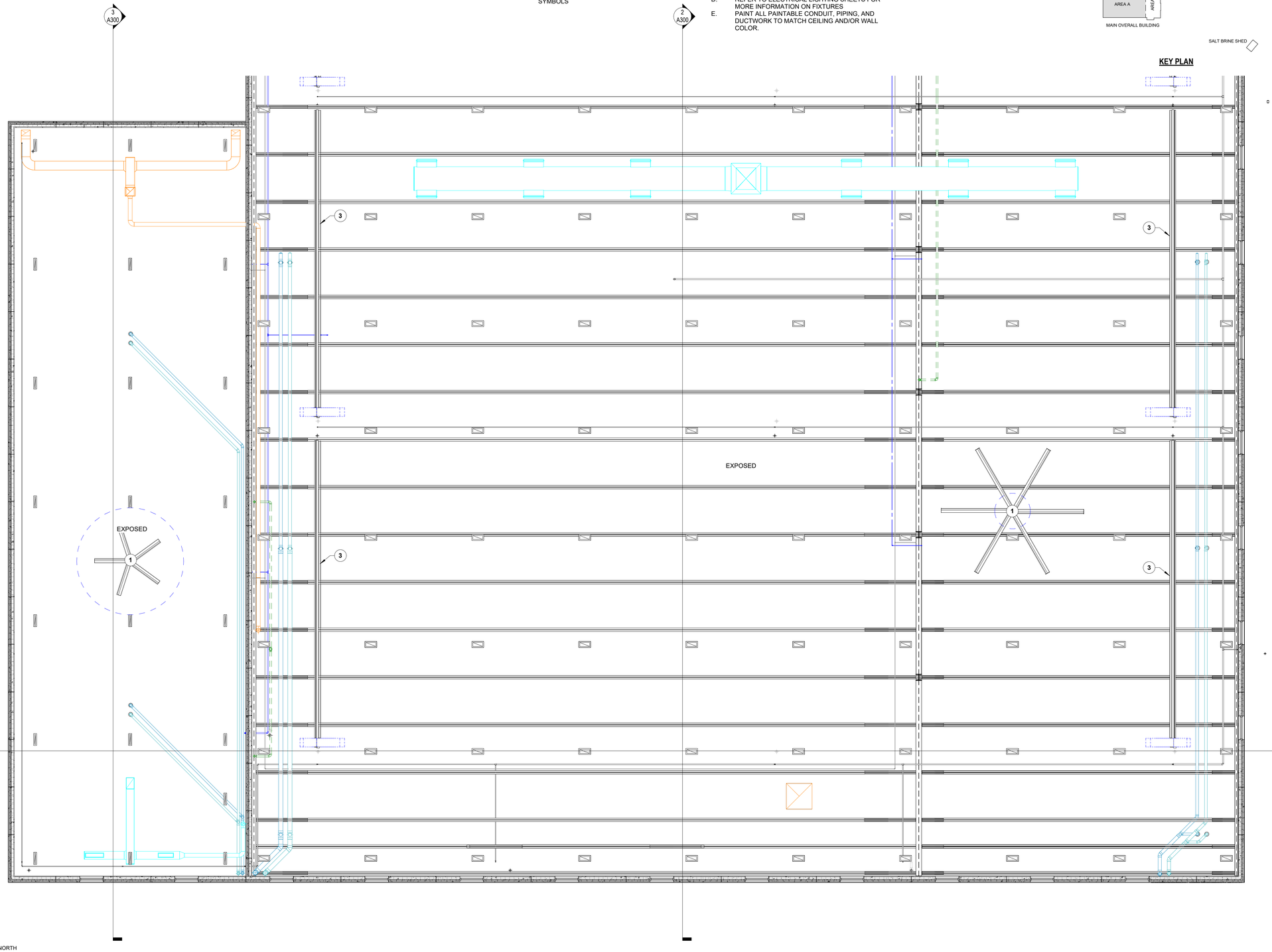
A. PERIMETER CEILING TILES SHALL NOT BE LESS THAN 4".
B. LOCATE ALL SPRINKLER HEADS, SMOKE DETECTORS, AUDIO SPEAKERS, HEAT SENSORS IN THE CENTER OF CEILING TILE (OR IN THE CENTER OF THE RAISED/RECESSED FIELD OF A PATTERNED TILE).
C. CEILING HEIGHTS SHALL BE 9'-0" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE ON THE REFLECTED CEILING PLANS.
D. REFER TO ELECTRICAL LIGHTING SHEETS FOR MORE INFORMATION ON FIXTURES
E. PAINT ALL PAINTABLE CONDUIT, PIPING, AND DUCTWORK TO MATCH CEILING AND/OR WALL COLOR.

RCP - KEY NOTES

1. OVERHEAD FAN - SEE MECHANICAL
2. BRIDGE CRANE RAILWAY - SEE STRUCTURAL
3. OVERHEAD RADIANT HEAT - SEE MECHANICAL



KEY PLAN



PROJECT NORTH

1 REFLECTED CEILING PLAN - AREA A
1/8" = 1'-0"

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SHEET TITLE
REFLECTED CEILING PLAN - AREA A

SHEET
A111

RCP - REFLECTED CEILING PLAN - SYMBOLS LEGEND

ACT-1 2'-0"x2'-0" SUSPENDED EXPOSED ACOUSTIC CEILING TILE

GYPSUM BOARD CEILING OR BULKHEAD

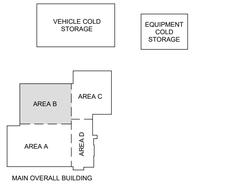
SEE MEP DRAWINGS FOR OTHER SYMBOLS

RCP - GENERAL NOTES

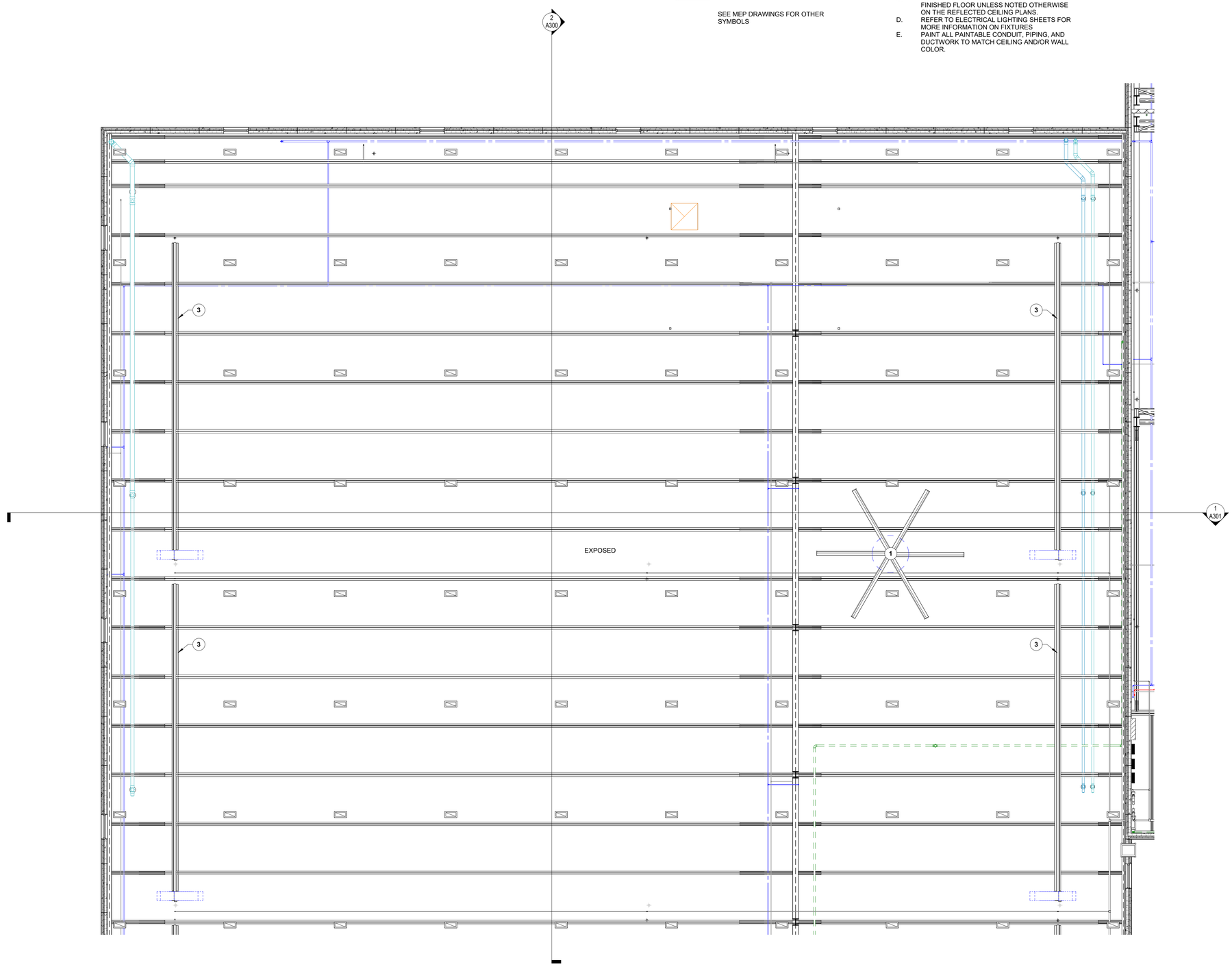
A. PERIMETER CEILING TILES SHALL NOT BE LESS THAN 4".
B. LOCATE ALL SPRINKLER HEADS, SMOKE DETECTORS, AUDIO SPEAKERS, HEAT SENSORS IN THE CENTER OF CEILING TILE (OR IN THE CENTER OF THE RAISED/RECESSED FIELD OF A PATTERNED TILE).
C. CEILING HEIGHTS SHALL BE 9'-0" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE ON THE REFLECTED CEILING PLANS.
D. REFER TO ELECTRICAL LIGHTING SHEETS FOR MORE INFORMATION ON FIXTURES
E. PAINT ALL PAINTABLE CONDUIT, PIPING, AND DUCTWORK TO MATCH CEILING AND/OR WALL COLOR.

RCP - KEY NOTES

1. OVERHEAD FAN - SEE MECHANICAL
2. BRIDGE CRANE RAILWAY - SEE STRUCTURAL
3. OVERHEAD RADIANT HEAT - SEE MECHANICAL



KEY PLAN



PROJECT NORTH
W E S

1 REFLECTED CEILING PLAN - AREA B
1/8" = 1'-0"

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50923

DATE
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SHEET TITLE
REFLECTED CEILING PLAN - AREA B

SHEET
A112

RCP - REFLECTED CEILING PLAN - SYMBOLS LEGEND

ACT-1 2'-0"x2'-0" SUSPENDED EXPOSED ACOUSTIC CEILING TILE

GYPSUM BOARD CEILING OR BULKHEAD

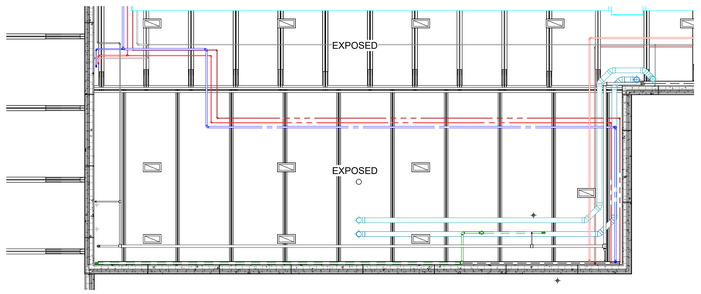
SEE MEP DRAWINGS FOR OTHER SYMBOLS

RCP - GENERAL NOTES

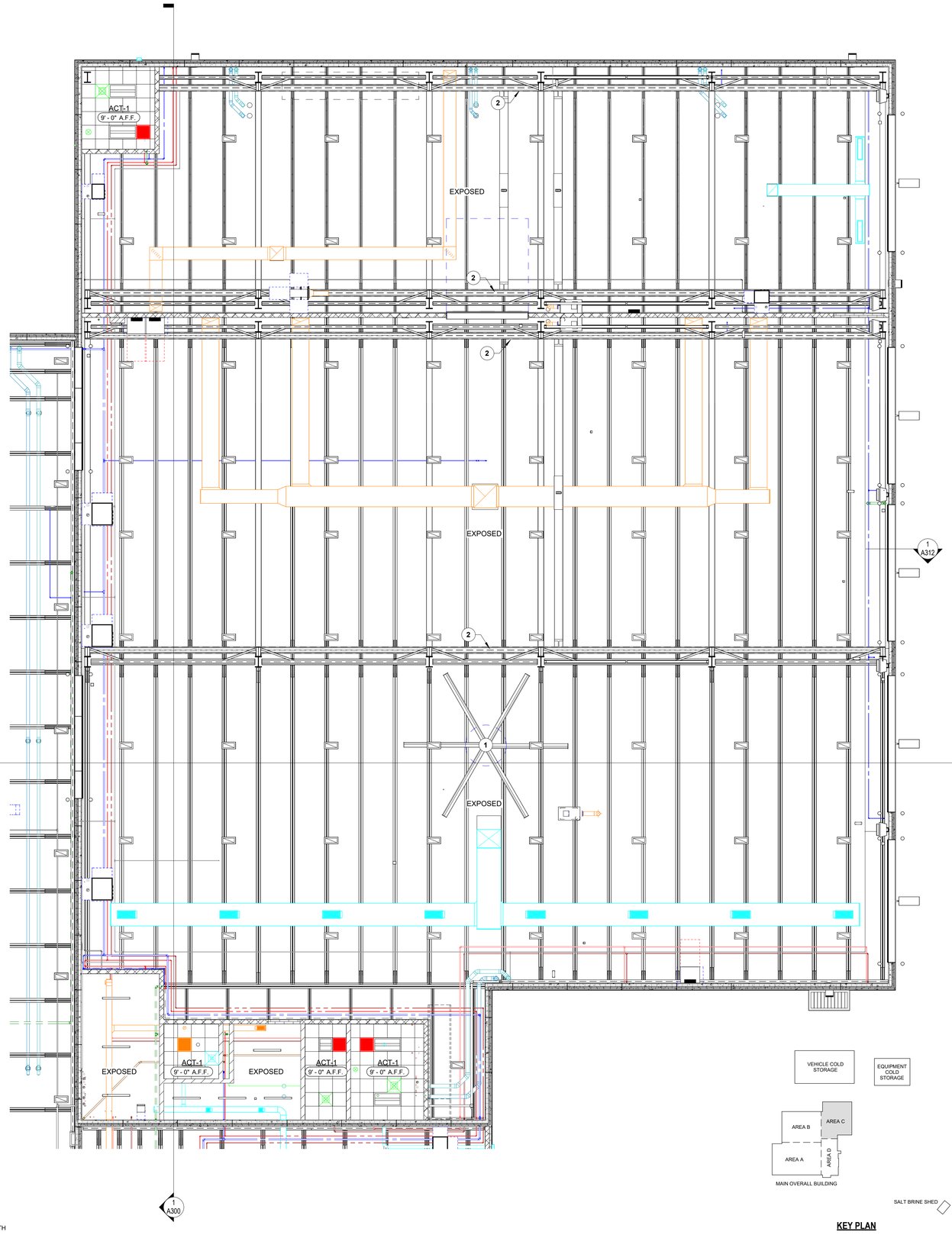
A. PERIMETER CEILING TILES SHALL NOT BE LESS THAN 4".
B. LOCATE ALL SPRINKLER HEADS, SMOKE DETECTORS, AUDIO SPEAKERS, HEAT SENSORS IN THE CENTER OF CEILING TILE (OR IN THE CENTER OF THE RAISED/RECESSED FIELD OF A PATTERNED TILE).
C. CEILING HEIGHTS SHALL BE 9'-0" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE ON THE REFLECTED CEILING PLANS.
D. REFER TO ELECTRICAL LIGHTING SHEETS FOR MORE INFORMATION ON FIXTURES.
E. PAINT ALL PAINTABLE CONDUIT, PIPING, AND DUCTWORK TO MATCH CEILING AND/OR WALL COLOR.

RCP - KEY NOTES

1. OVERHEAD FAN - SEE MECHANICAL
2. BRIDGE CRANE RAILWAY - SEE STRUCTURAL
3. OVERHEAD RADIANT HEAT - SEE MECHANICAL



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



KEY PLAN

PROJECT NORTH
W E
S

2 REFLECTED CEILING PLAN - AREA C
1/8" = 1'-0"

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ISSUED FOR:
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
REFLECTED CEILING PLAN - AREA C

SHEET
A113

RCP - REFLECTED CEILING PLAN - SYMBOLS LEGEND

ACT-1 2'-0"x2'-0" SUSPENDED EXPOSED ACOUSTIC CEILING TILE

GYPSUM BOARD CEILING OR BULKHEAD

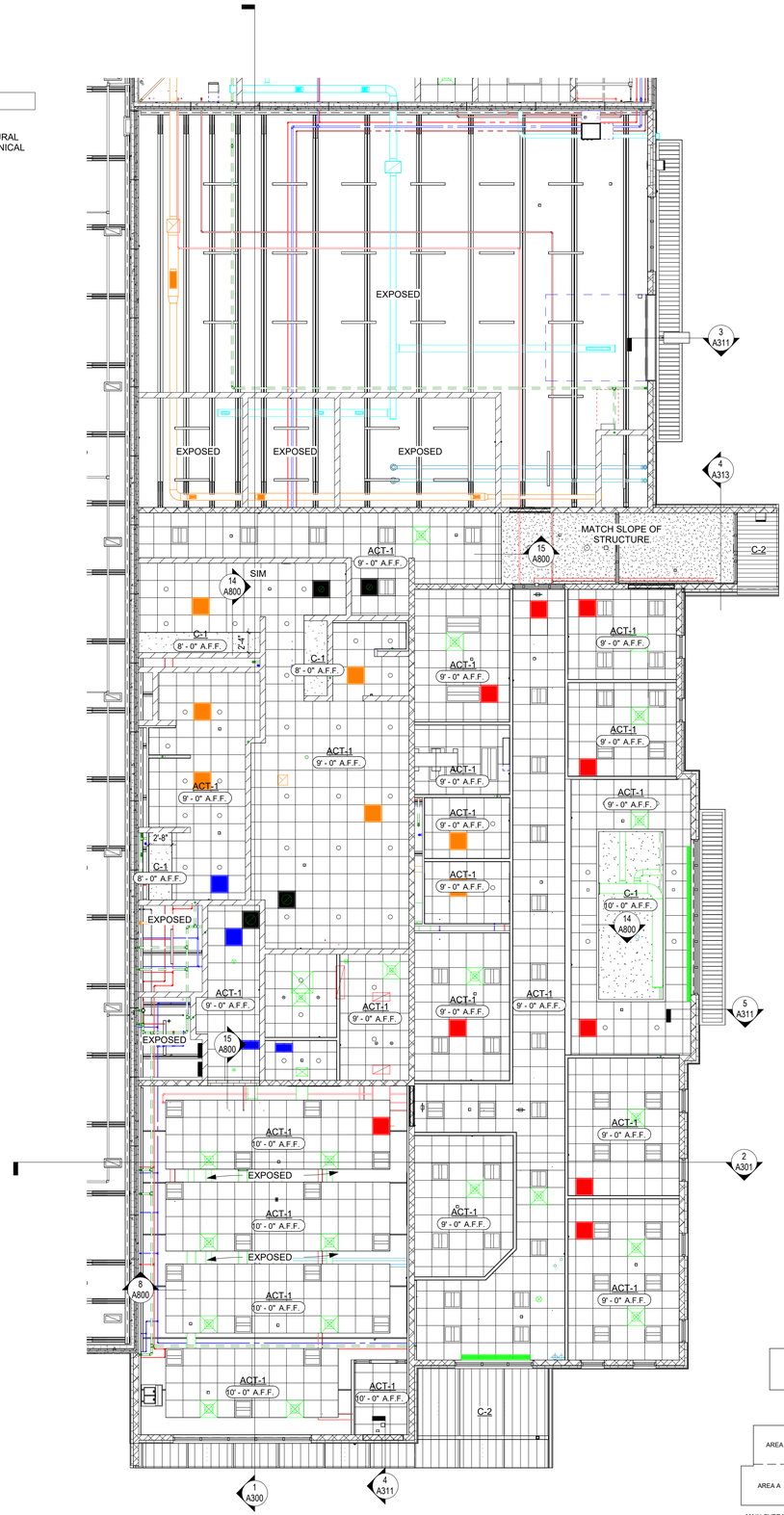
SEE MEP DRAWINGS FOR OTHER SYMBOLS

RCP - GENERAL NOTES

A. PERIMETER CEILING TILES SHALL NOT BE LESS THAN 4".
B. LOCATE ALL SPRINKLER HEADS, SMOKE DETECTORS, AUDIO SPEAKERS, HEAT SENSORS IN THE CENTER OF CEILING TILE (OR IN THE CENTER OF THE RAISED/RECESSED FIELD OF A PATTERNED TILE).
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RCP - KEY NOTES

1. OVERHEAD FAN - SEE MECHANICAL
2. BRIDGE CRANE RAILWAY - SEE STRUCTURAL
3. OVERHEAD RADIANT HEAT - SEE MECHANICAL



PROJECT NORTH

W E S

REFLECTED CEILING PLAN - AREA D

1/8" = 1'-0"

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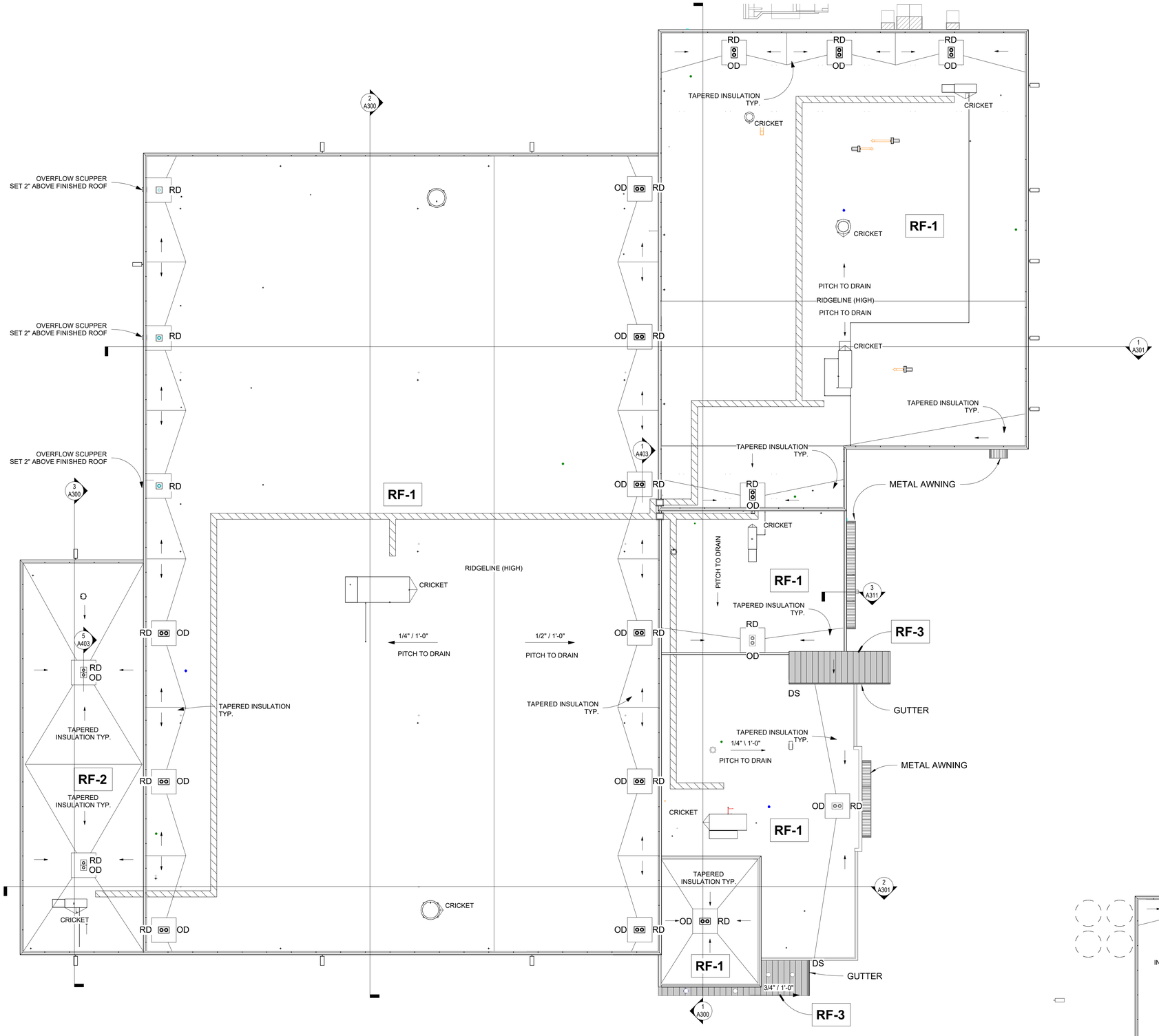
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
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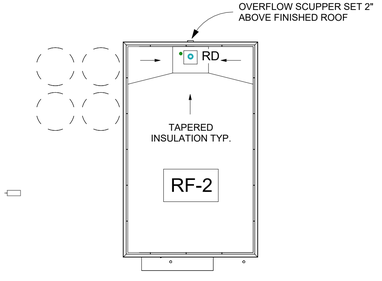
SHEET
A114



PROJECT NORTH

1 OVERALL ROOF PLAN

1/16" = 1'-0"



PROJECT NORTH

2 SALT BRINE SHED ROOF PLAN

1/16" = 1'-0"

ROOF LEGEND

- ROOF WALKWAY PADS (SEE SPEC 07 53 00)
- (RD) ROOF DRAIN
- (OD) OVERFLOW DRAIN
- (DS) DOWN SPOUT
- (MS) MECHANICAL SCREEN

GENERAL ROOF NOTES

- WHERE TAPERED INSULATION IS SPECIFIED, SLOPE 1/4" ON FIELD AND 1/2" ON CRICKETS AND SADDLES.
- SUMP AT ALL ROOF DRAINS TO BE 8' X 8' UNLESS SHOWN OTHERWISE.
- PROVIDE ROOF CRICKETS / SADDLES AT ALL ROOFTOP EQUIPMENT, CURBS, PENETRATIONS, AND OBSTRUCTIONS AS REQUIRED FOR POSITIVE DRAINAGE.

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SHEET TITLE
ROOF PLAN

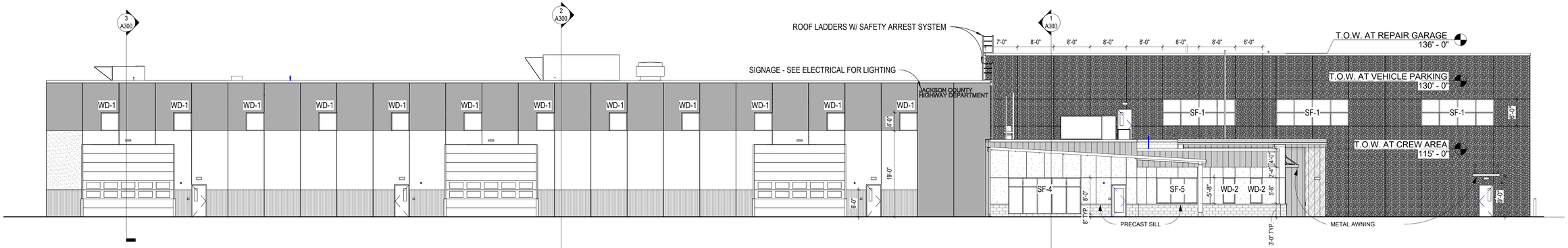
SHEET
A120

ELEVATION LEGEND

- PRECAST 1 - PT - SHERWIN WILLIAMS - SW9092 ICED MOCHA
- PRECAST 2 - PT - SHERWIN WILLIAMS - SW9101 TRES NATURALE
- PRECAST 3 - FLUTED TEXTURE
- PRECAST 4 - DARK FINISH W/ LARGE AGGREGATE
- PRECAST 5 - UNPAINTED SMOOTH FINISH
- METAL PANEL - PACCLAD HIGHLINE C1 - COPPER PENNY
- CONCRETE MASONRY - COUNTY MATERIALS - BURNISHED, DAWN (15 5/8" x 3 5/8" x 7 5/8")
- PEMB WALL
- FIBER CEMENT PANEL 1 - AFC - PATINA ROUGH, SAND-545 (INSTALLED VERTICAL)
- FIBER CEMENT PANEL 2 - CERACLAD - URBAN CEDAR, HONEY (INSTALLED VERTICAL)

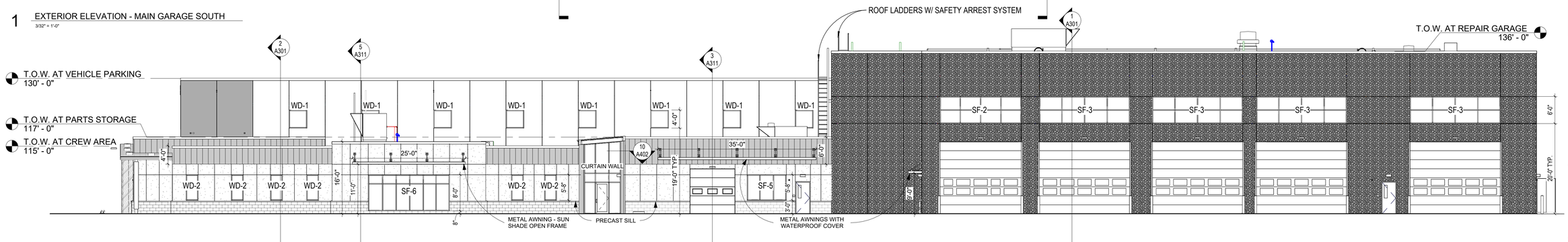
ELEVATION NOTES

- CONTROL JOINTS AS NEEDED. ALIGN WITH NEARBY ARCHITECTURAL FEATURES



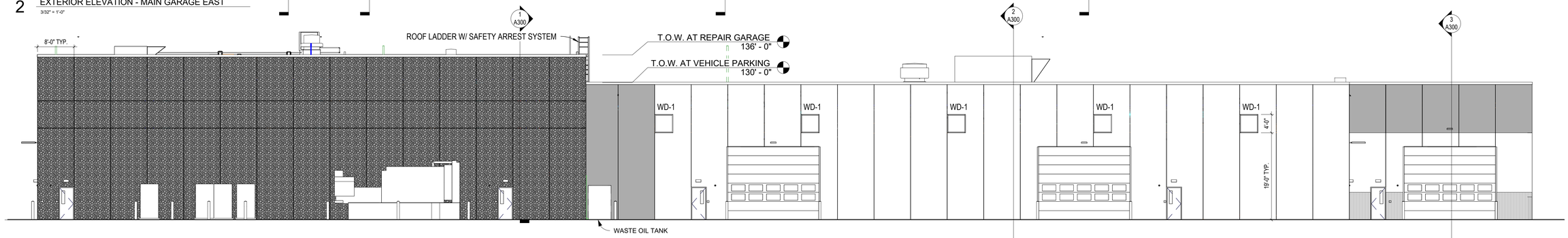
1 EXTERIOR ELEVATION - MAIN GARAGE SOUTH

3/32" = 1'-0"



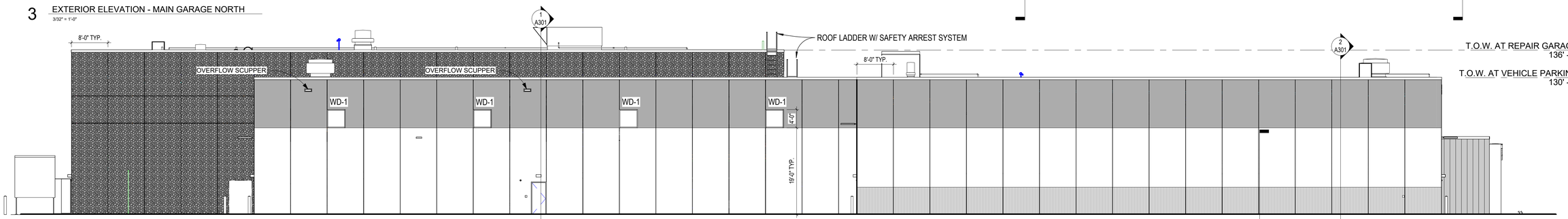
2 EXTERIOR ELEVATION - MAIN GARAGE EAST

3/32" = 1'-0"



3 EXTERIOR ELEVATION - MAIN GARAGE NORTH

3/32" = 1'-0"



4 EXTERIOR ELEVATION - MAIN GARAGE WEST

3/32" = 1'-0"

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50923

DATE
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SHEET TITLE
EXTERIOR ELEVATIONS

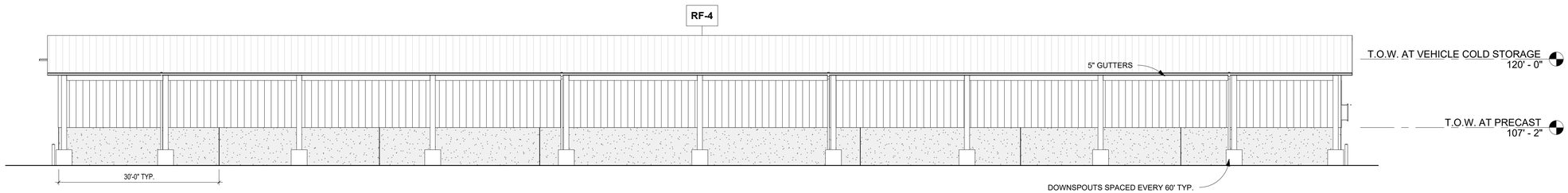
SHEET
A200

ELEVATION LEGEND

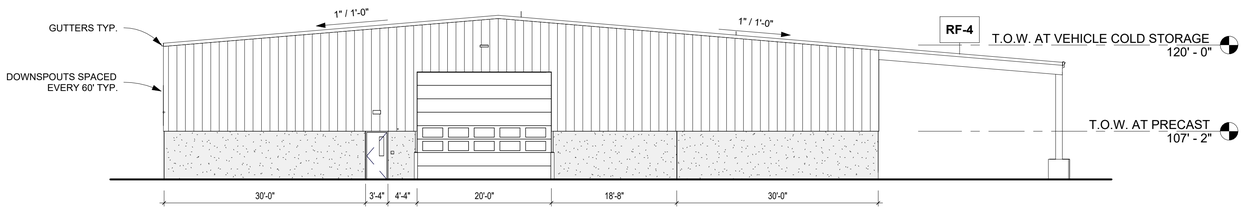
- PRECAST 1 - PT - SHERWIN WILLIAMS - SW9092 ICED MOCHA
- PRECAST 2 - PT - SHERWIN WILLIAMS - SW9101 TRES NATURALE
- PRECAST 3 - FLUTED TEXTURE
- PRECAST 4 - DARK FINISH W/ LARGE AGGREGATE
- PRECAST 5 - UNPAINTED SMOOTH FINISH
- METAL PANEL - PACCLAD HIGHLINE C1 - COPPER PENNY
- CONCRETE MASONRY - COUNTY MATERIALS - BURNISHED, DAWN (15 5/8" x 3 5/8" x 7 5/8")
- PEMB WALL
- FIBER CEMENT PANEL 1 - AFC - PATINA ROUGH, SAND-545 (INSTALLED VERTICAL)
- FIBER CEMENT PANEL 2 - CERACLAD - URBAN CEDAR, HONEY (INSTALLED VERTICAL)

ELEVATION NOTES

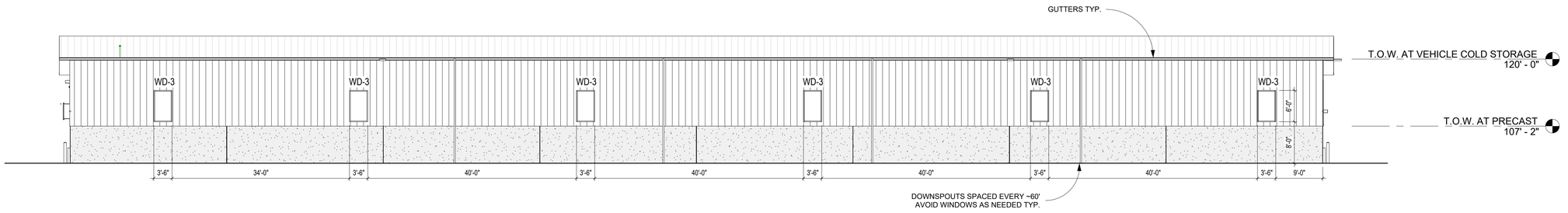
- CONTROL JOINTS AS NEEDED. ALIGN WITH NEARBY ARCHITECTURAL FEATURES



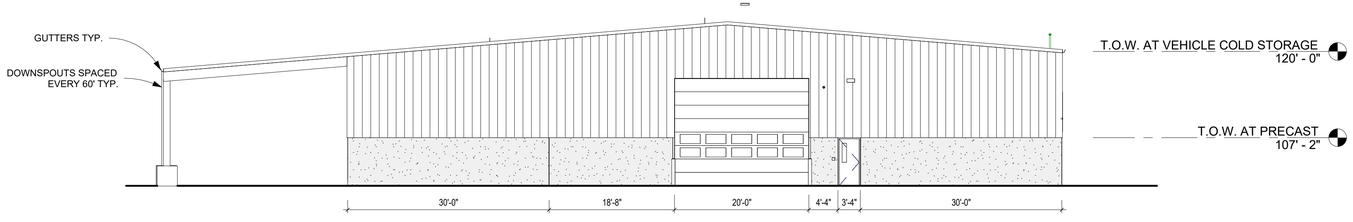
1 EXTERIOR ELEVATION - VEHICLE COLD STORAGE NORTH
3/32" = 1'-0"



2 EXTERIOR ELEVATION - VEHICLE COLD STORAGE EAST
3/32" = 1'-0"



3 EXTERIOR ELEVATION - VEHICLE COLD STORAGE SOUTH
3/32" = 1'-0"



4 EXTERIOR ELEVATION - VEHICLE COLD STORAGE WEST
3/32" = 1'-0"

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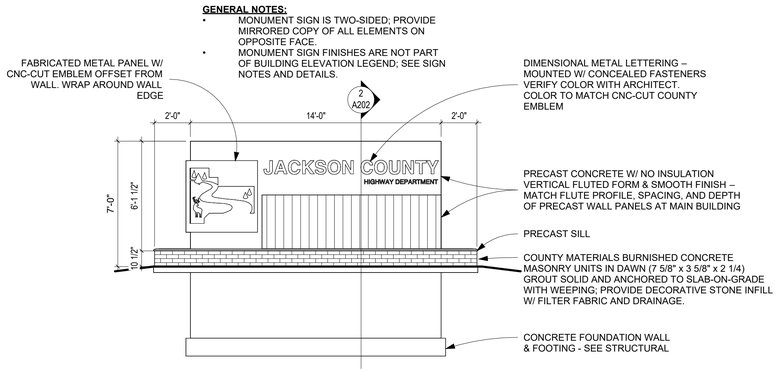
DATE
06.22.2026

SHEET TITLE
EXTERIOR ELEVATIONS

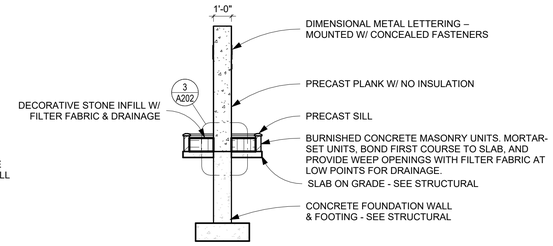
SHEET
A201

GENERAL NOTES:

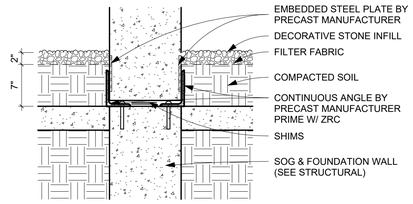
- MONUMENT SIGN IS TWO-SIDED; PROVIDE MIRRORED COPY OF ALL ELEMENTS ON OPPOSITE FACE.
- MONUMENT SIGN FINISHES ARE NOT PART OF BUILDING ELEVATION LEGEND; SEE SIGN NOTES AND DETAILS.



1 NORTH ELEVATION - MONUMENTAL SIGN
1/4" = 1'-0"



2 SECTION - MONUMENTAL SIGN
1/4" = 1'-0"



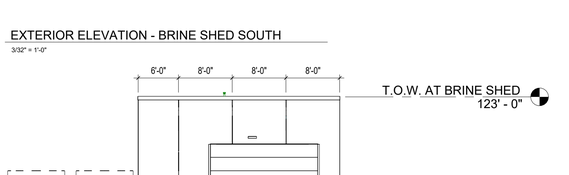
3 PRECAST TO FOUNDATION - MONUMENTAL SIGN
1" = 1'-0"

ELEVATION LEGEND

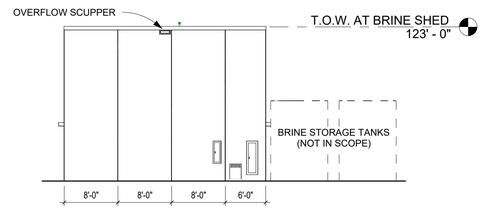
- PRECAST 1 - PT - SHERWIN WILLIAMS - SW9092 ICED MOCHA
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ELEVATION NOTES

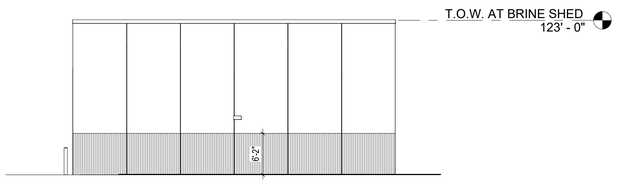
- CONTROL JOINTS AS NEEDED. ALIGN WITH NEARBY ARCHITECTURAL FEATURES



4 EXTERIOR ELEVATION - BRINE SHED NORTH
3/32" = 1'-0"

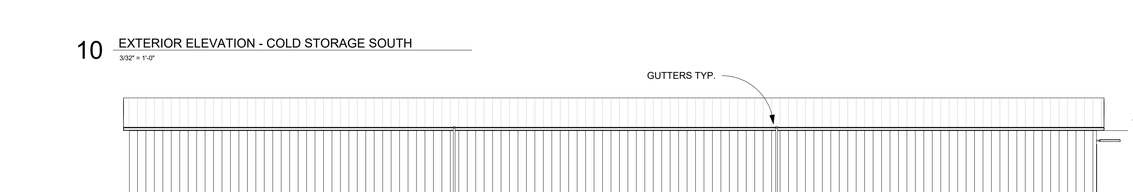


5 EXTERIOR ELEVATION - BRINE SHED EAST
3/32" = 1'-0"

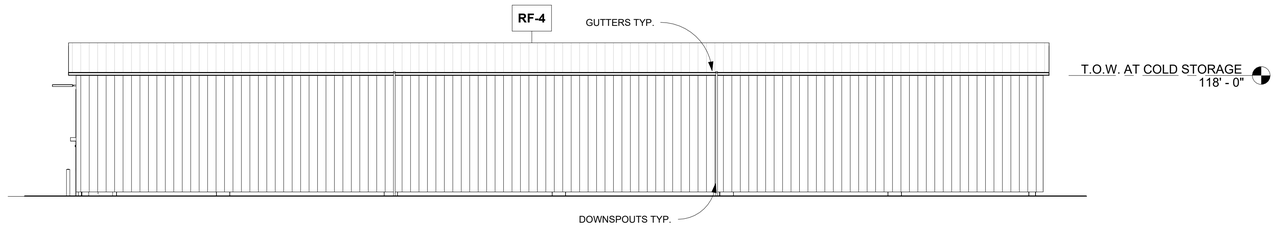


6 EXTERIOR ELEVATION - BRINE SHED SOUTH
3/32" = 1'-0"

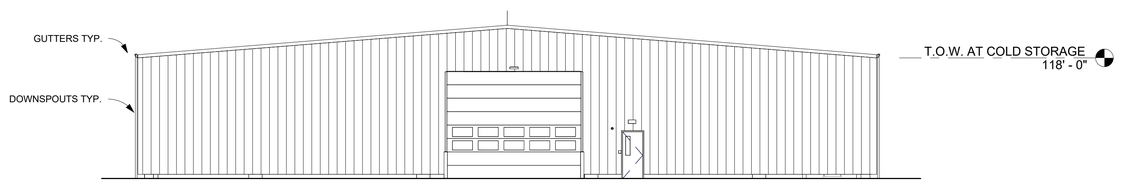
7 EXTERIOR ELEVATION - BRINE SHED WEST
3/32" = 1'-0"



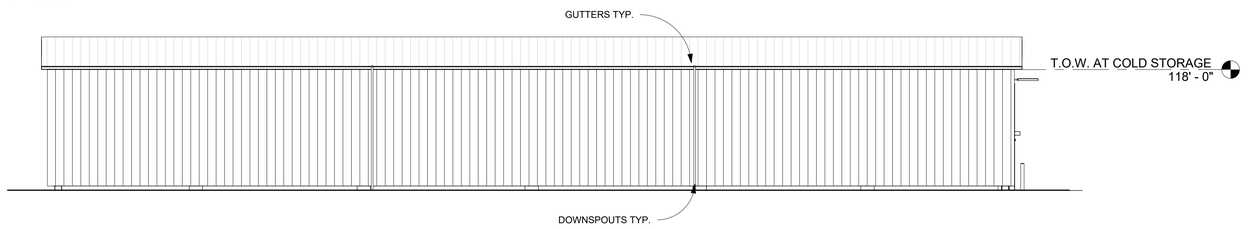
8 EXTERIOR ELEVATION - COLD STORAGE NORTH
3/32" = 1'-0"



9 EXTERIOR ELEVATION - COLD STORAGE EAST
3/32" = 1'-0"



10 EXTERIOR ELEVATION - COLD STORAGE SOUTH
3/32" = 1'-0"



11 EXTERIOR ELEVATION - COLD STORAGE WEST
3/32" = 1'-0"

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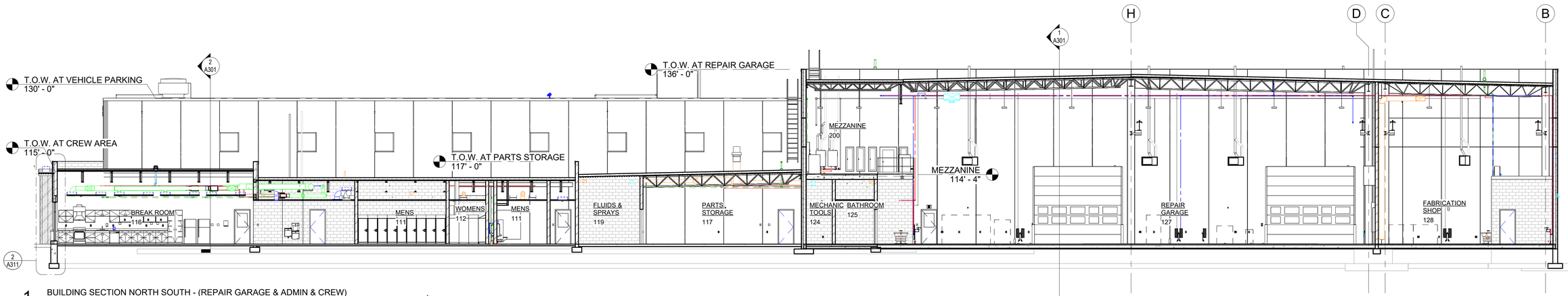
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
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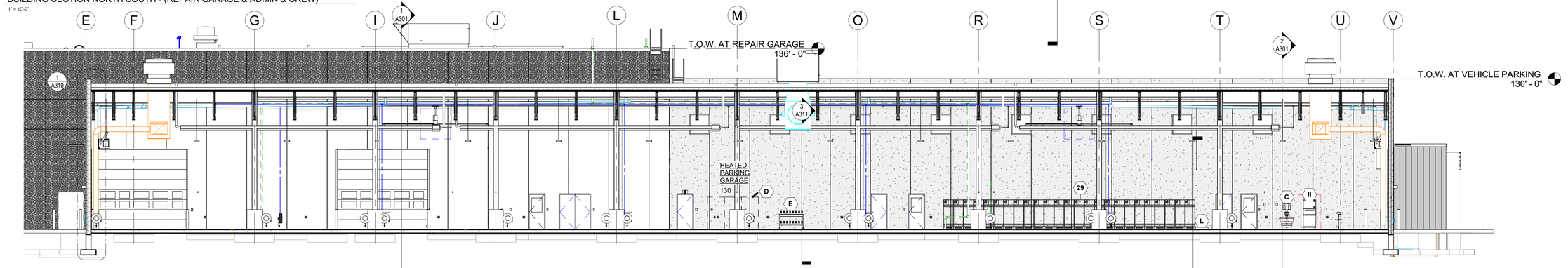
DATE
06.22.2026

SHEET TITLE
EXTERIOR ELEVATIONS

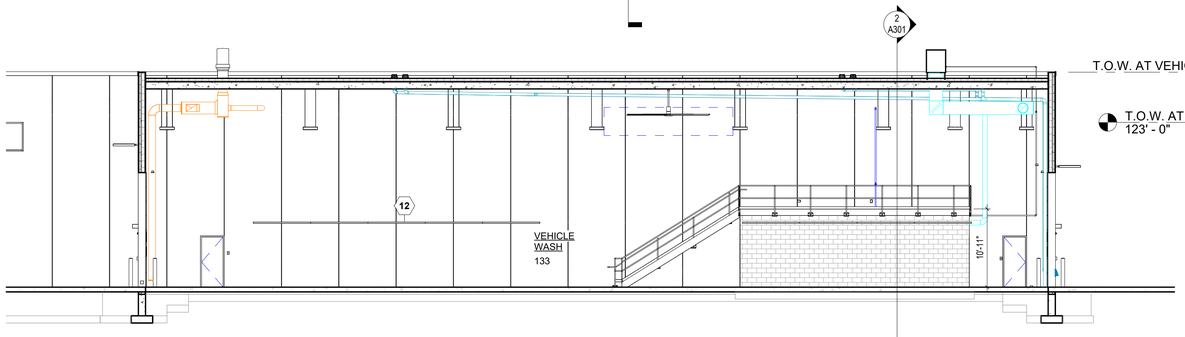
SHEET
A202



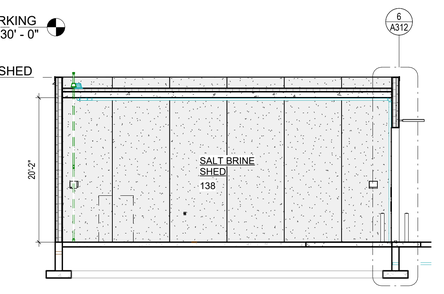
1 BUILDING SECTION NORTH SOUTH - (REPAIR GARAGE & ADMIN & CREW)
1" = 10'-0"



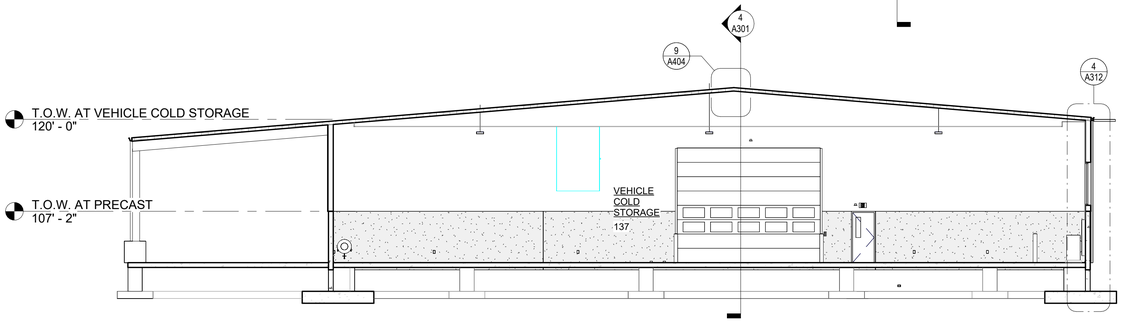
2 BUILDING SECTION - NORTH SOUTH (HEATED PARKING)
1" = 10'-0"



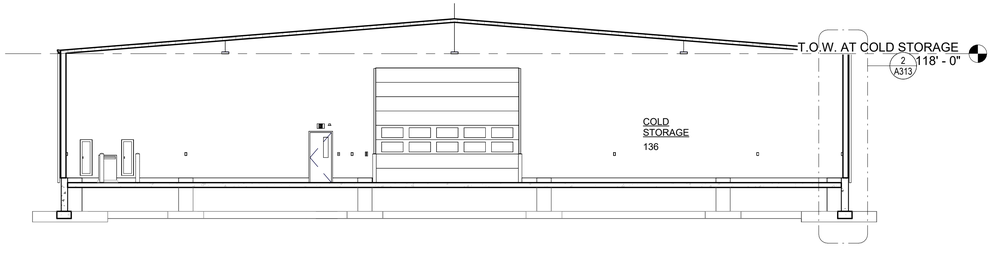
3 BUILDING SECTION - NORTH SOUTH (TRUCK WASH)
1" = 10'-0"



4 BUILDING SECTION NORTH SOUTH - BRINE SHED
1" = 10'-0"



5 BUILDING SECTION NORTH SOUTH - VEHICLE COLD STORAGE
1" = 10'-0"



6 BUILDING SECTION NORTH SOUTH - COLD STORAGE
1" = 10'-0"

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205 West Highland Avenue, Suite 303
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CONSULTANT

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Jackson County Highway Facility

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DATE	DESCRIPTION

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ISSUED / SUBMIT

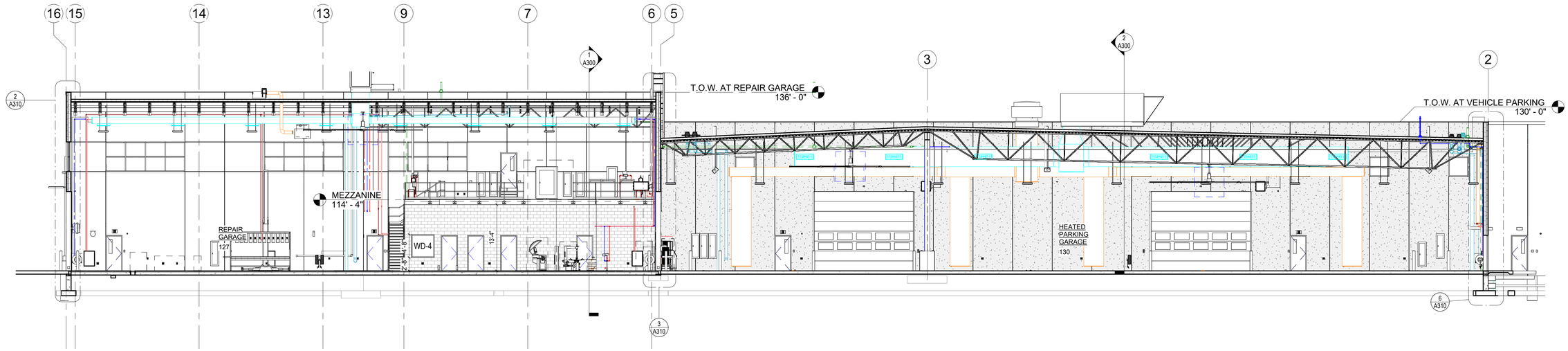
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BARRIENTOS DESIGN PROJECT NUMBER
50923

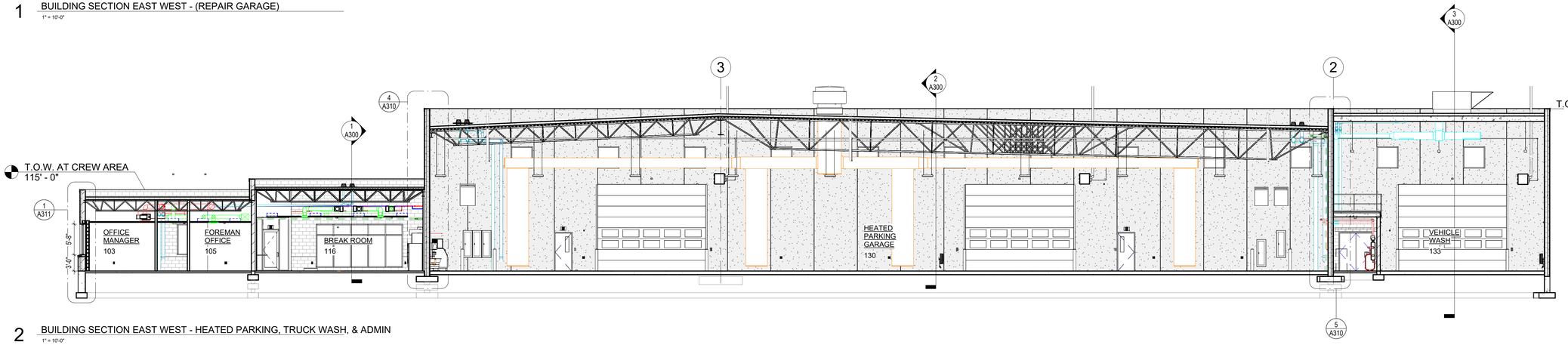
DATE
06.22.2026

SHEET TITLE
BUILDING SECTIONS - NORTH-SOUTH

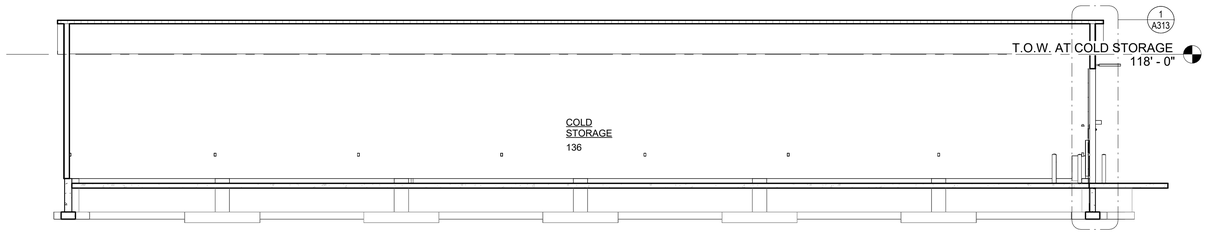
SHEET
A300



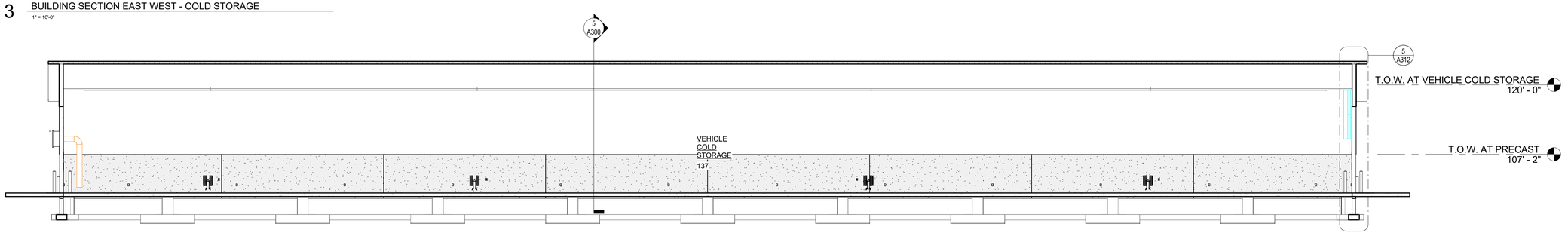
1 BUILDING SECTION EAST WEST - (REPAIR GARAGE)
1" = 10'-0"



2 BUILDING SECTION EAST WEST - HEATED PARKING, TRUCK WASH, & ADMIN
1" = 10'-0"



3 BUILDING SECTION EAST WEST - COLD STORAGE
1" = 10'-0"



4 BUILDING SECTION EAST WEST - VEHICLE COLD STORAGE
1" = 10'-0"

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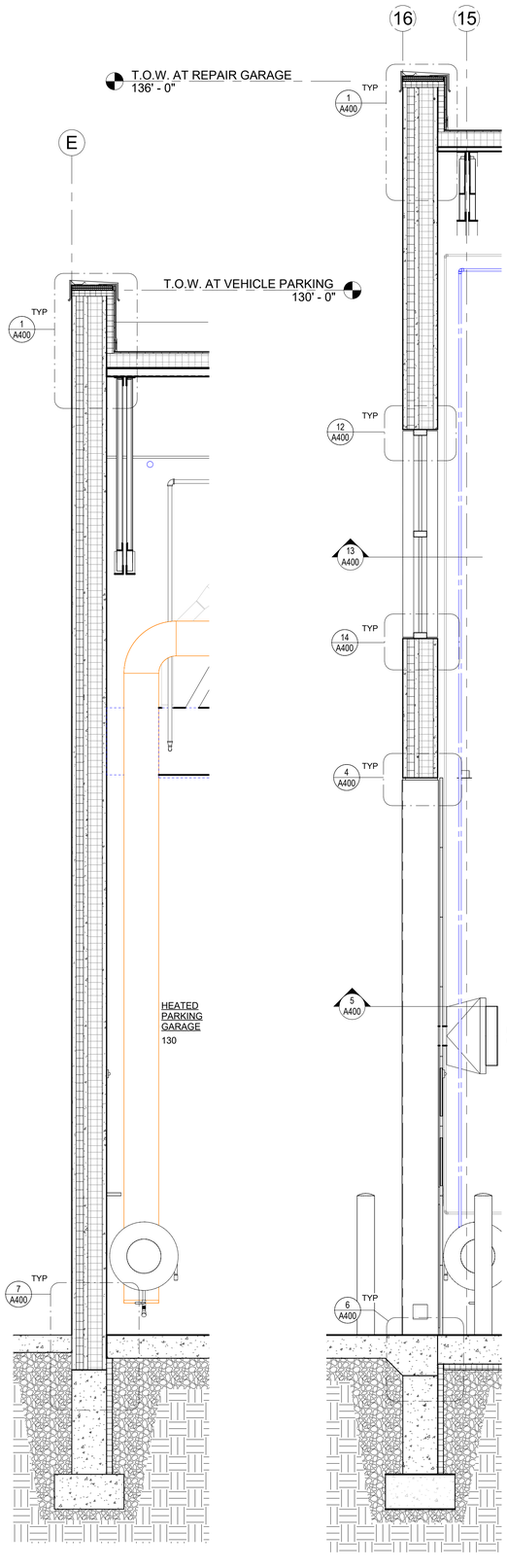
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DATE
06.22.2026

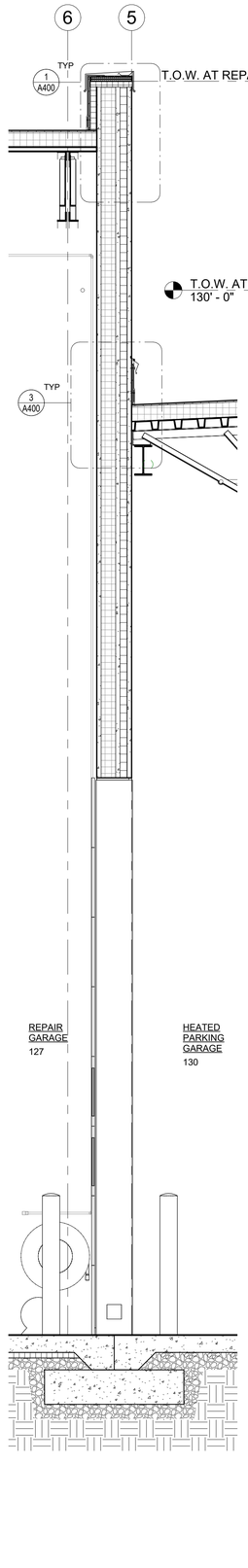
SHEET TITLE
BUILDING SECTIONS - EAST-WEST

SHEET
A301

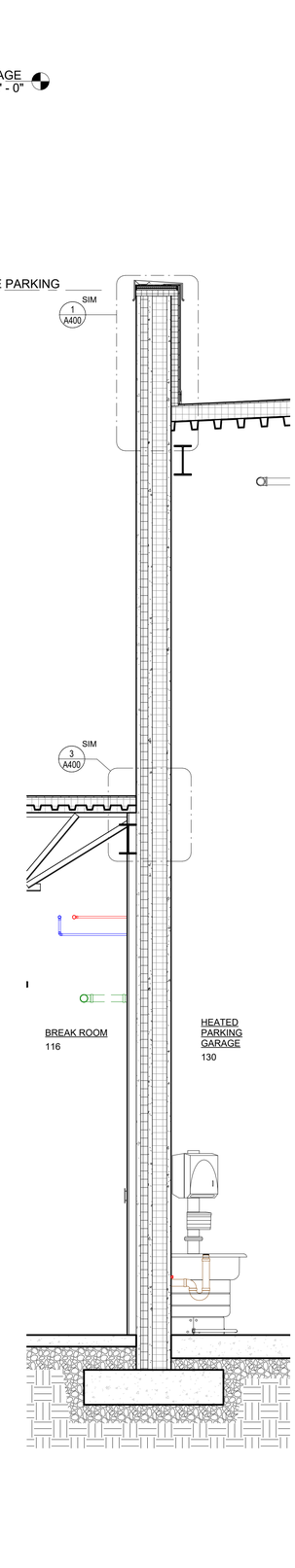


1 WALL SECTION - HEATED GARAGE
1/2" = 1'-0"

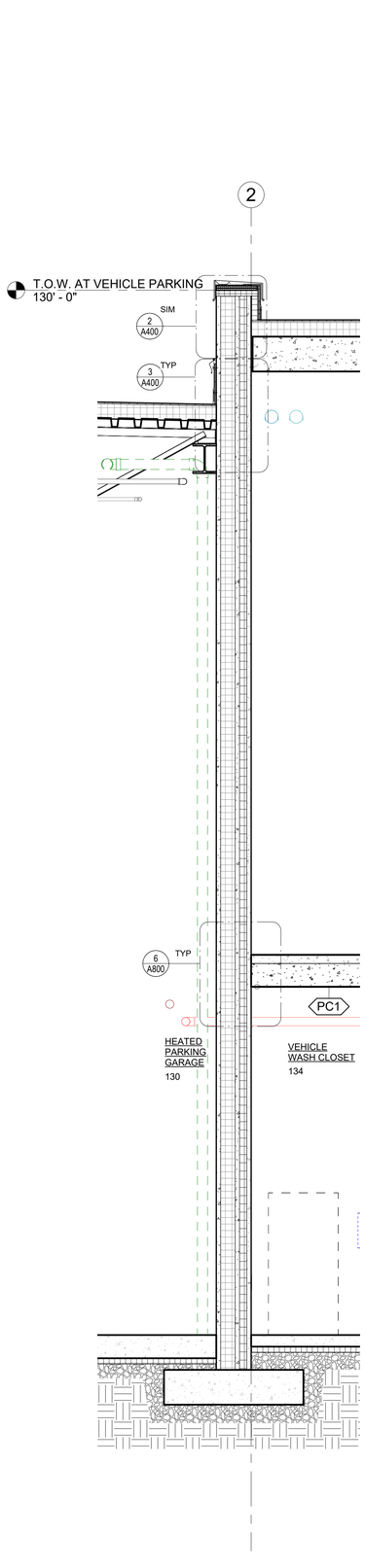
2 WALL SECTION - REPAIR GARAGE
1/2" = 1'-0"



3 WALL SECTION - REPAIR & HEATED GARAGE
1/2" = 1'-0"



4 WALL SECTION - CREW & PARKING GARAGE
1/2" = 1'-0"



5 WALL SECTION - PARKING GARAGE & WASH
1/2" = 1'-0"



6 WALL SECTION - HEATED GARAGE
1/2" = 1'-0"

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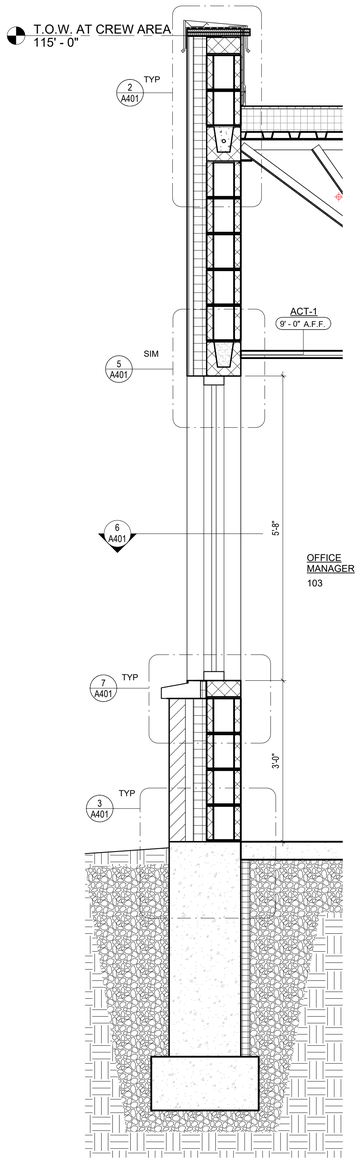
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BARRIENTOS DESIGN PROJECT NUMBER
50923

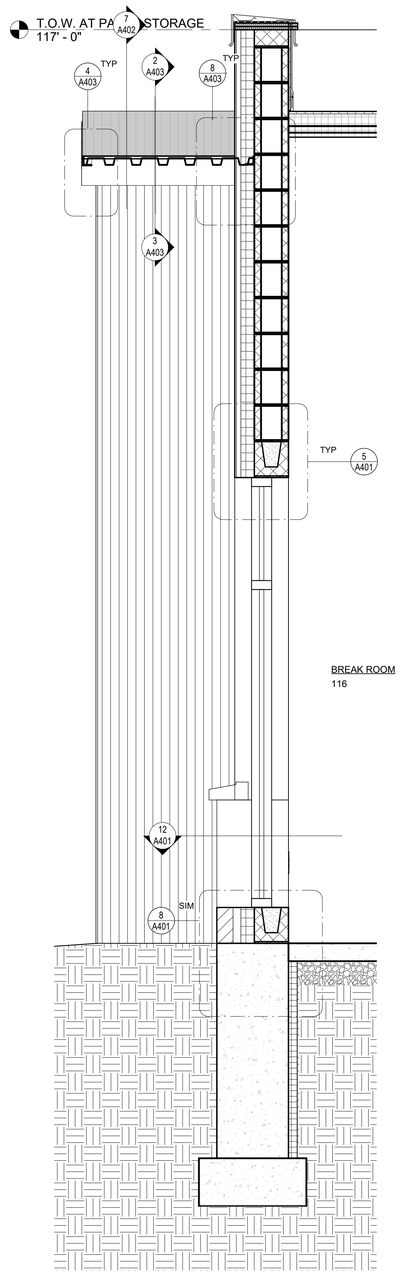
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SHEET TITLE
WALL SECTIONS

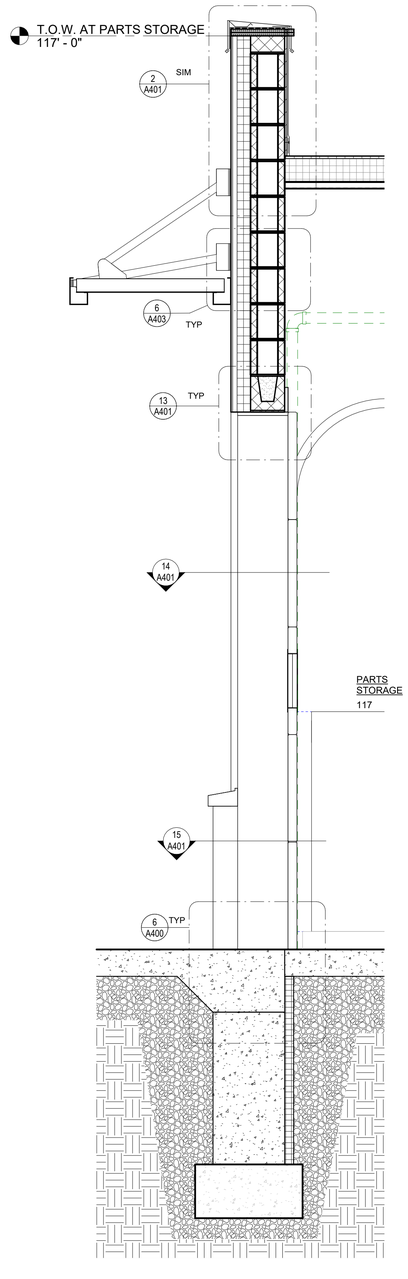
SHEET
A310



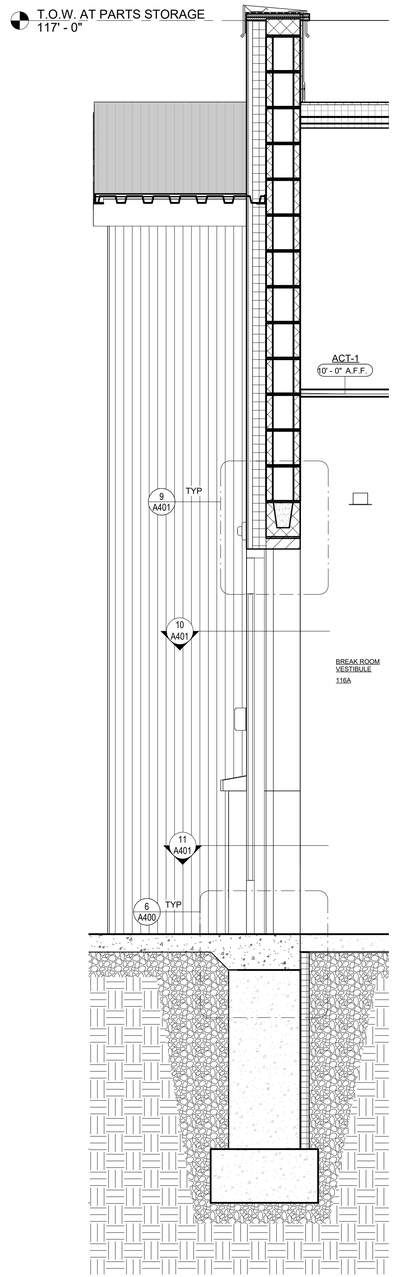
1 WALL SECTION - ADMIN
3/4" = 1'-0"



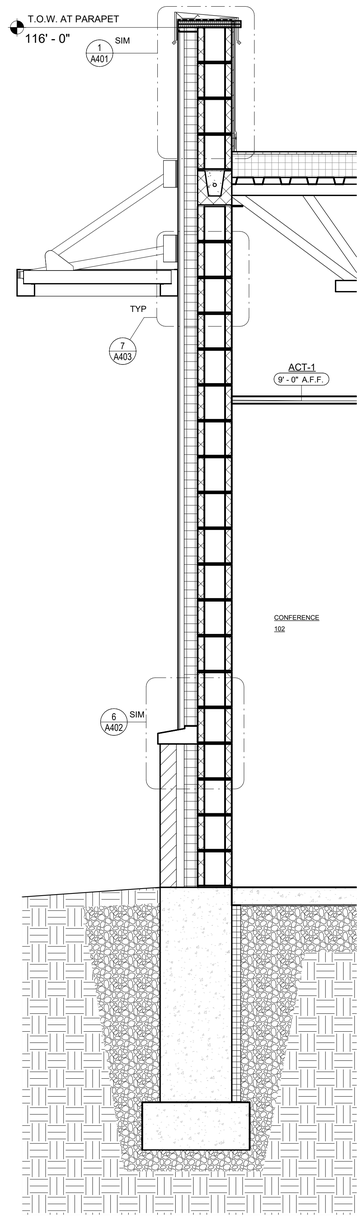
2 WALL SECTION - ASSEMBLY & LUNCH ROOM
3/4" = 1'-0"



3 WALL SECTION - PARTS STORAGE
3/4" = 1'-0"



4 WALL SECTION - ASSEMBLY & LUNCH ROOM MAN DOOR
3/4" = 1'-0"



5 WALL SECTION - CONFERENCE ROOM
3/4" = 1'-0"

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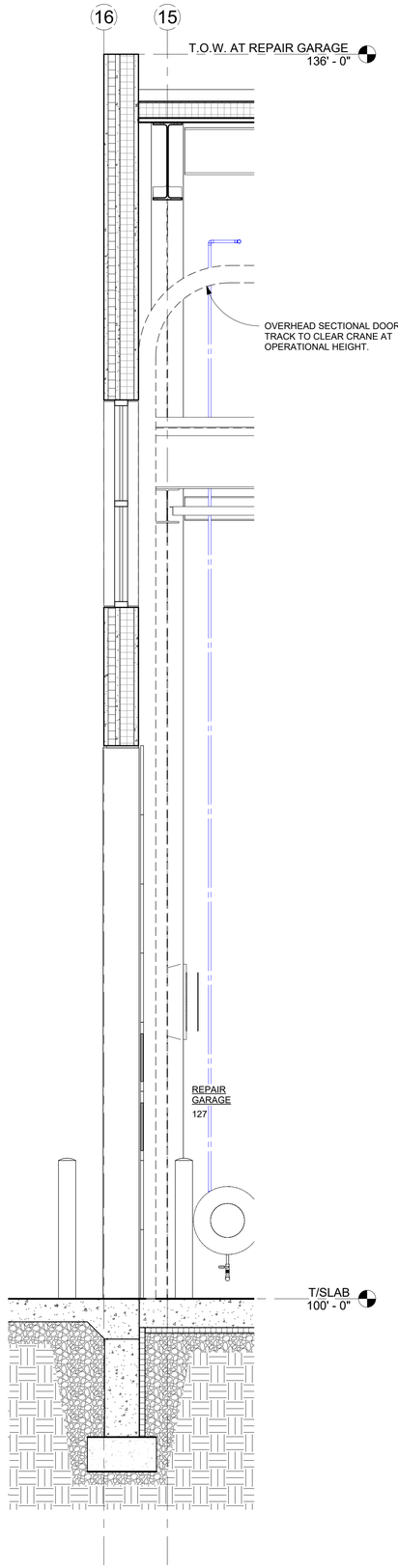
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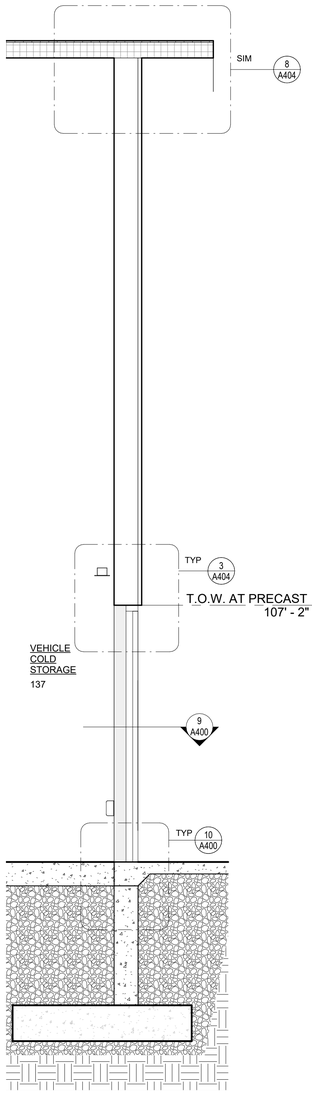
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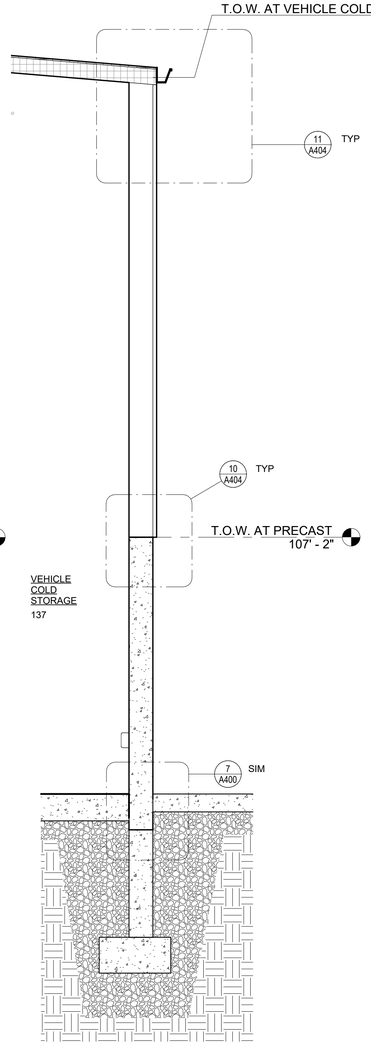
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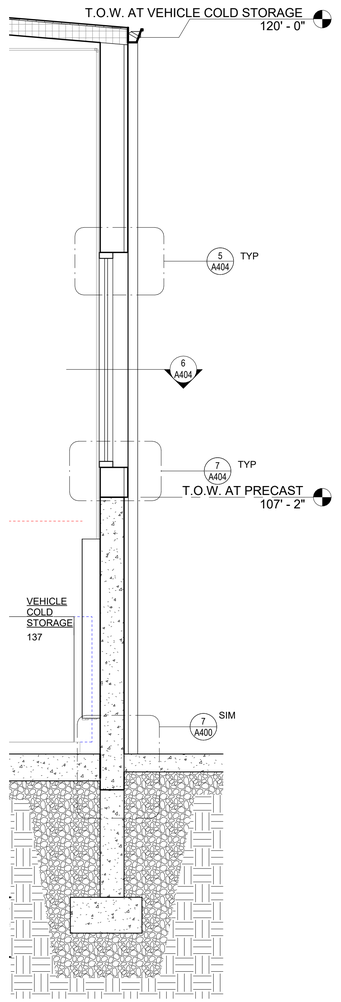
1 WALL SECTION - REPAIR GARAGE OVERHEAD DOOR AT CRANE
1/2" = 1'-0"



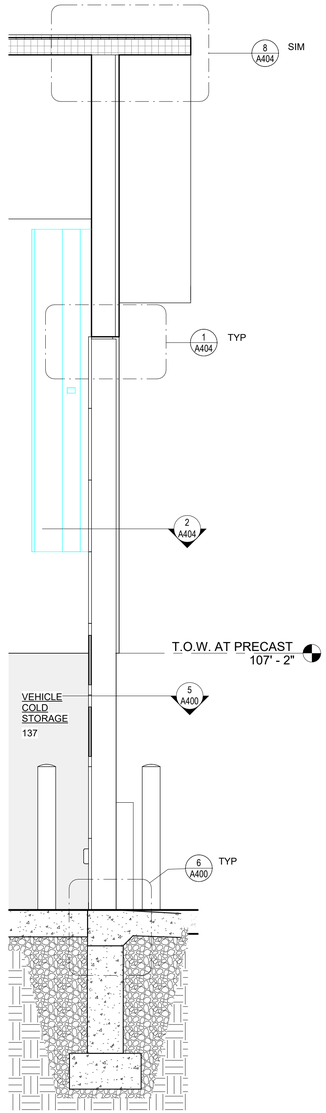
2 WALL SECTION - VEHICLE COLD STORAGE MAN DOOR
1/2" = 1'-0"



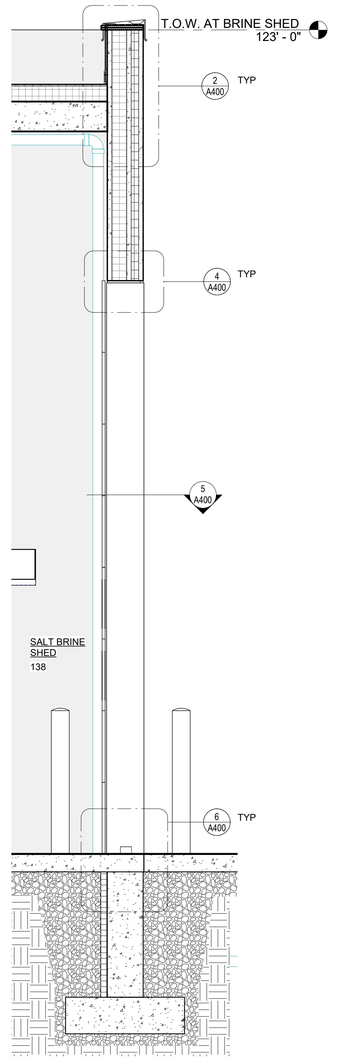
3 WALL SECTION - VEHICLE COLD STORAGE
1/2" = 1'-0"



4 WALL SECTION - VEHICLE COLD STORAGE WINDOW
1/2" = 1'-0"



5 WALL SECTION - VEHICLE COLD STORAGE MAN DOOR
1/2" = 1'-0"



6 WALL SECTION - SALT BRINE SHED
1/2" = 1'-0"

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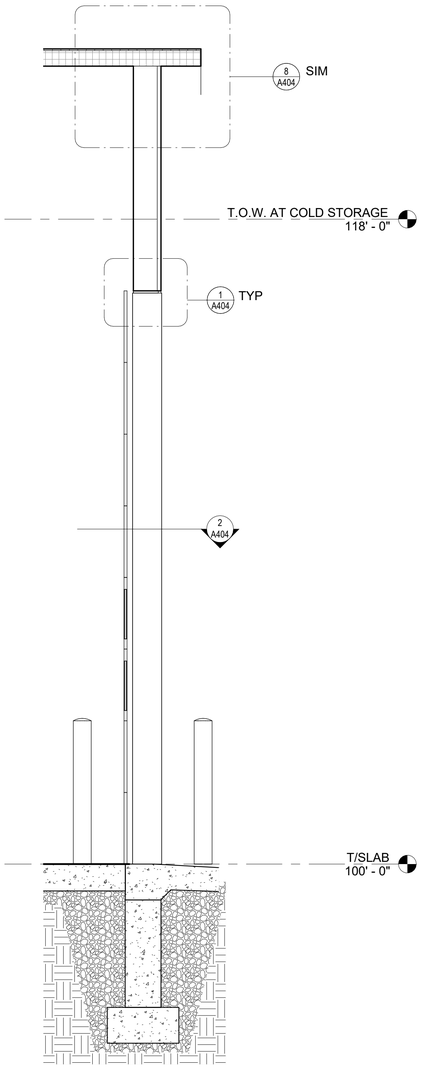
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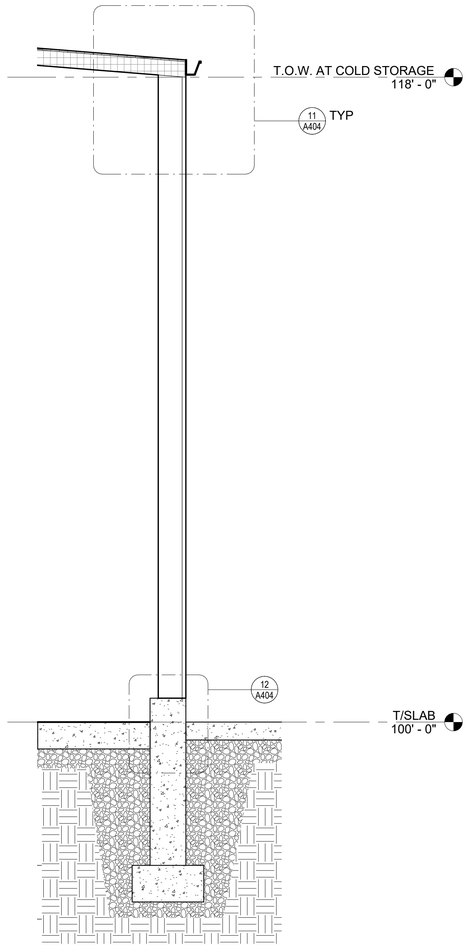
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SHEET TITLE
WALL SECTIONS

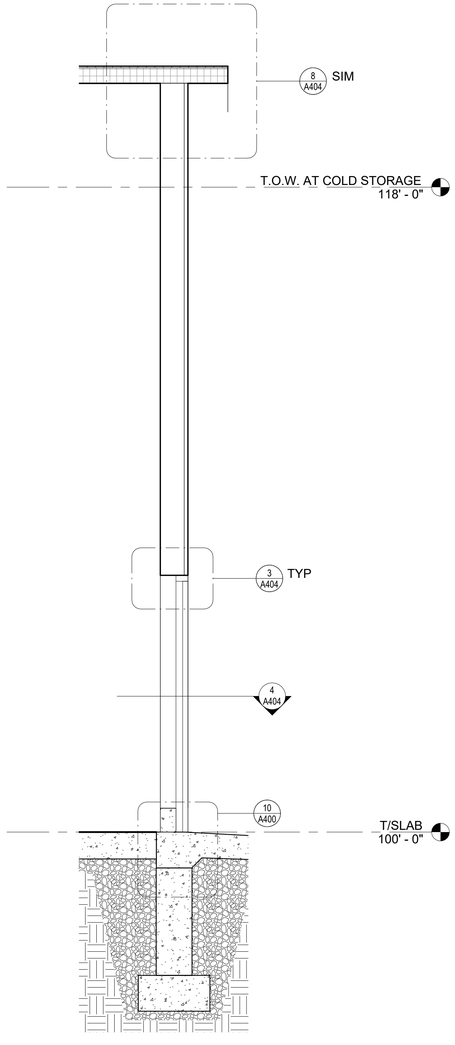
SHEET
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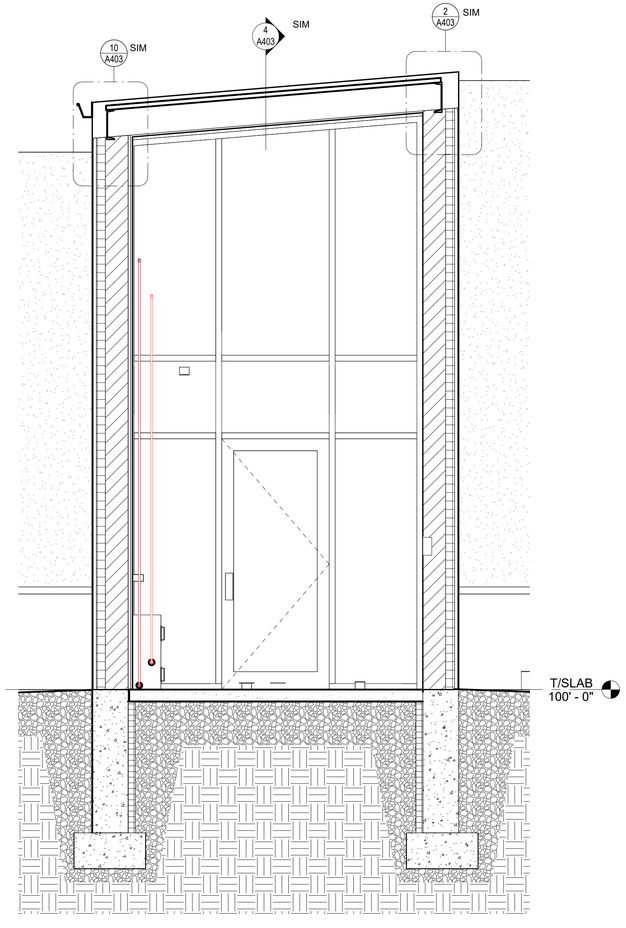
1 WALL SECTION - COLD STORAGE OVERHEAD DOOR
1/2" = 1'-0"



2 WALL SECTION - COLD STORAGE WALL
1/2" = 1'-0"



3 WALL SECTION - COLD STORAGE MAN-DOOR
1/2" = 1'-0"



4 WALL SECTION - ENTRY CANOPY
1/2" = 1'-0"

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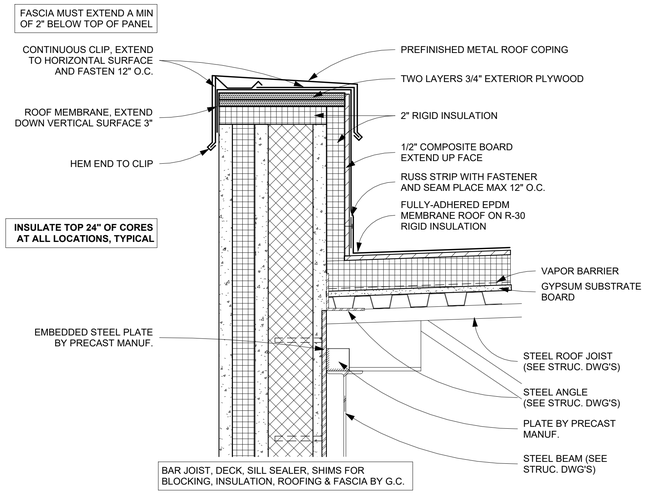
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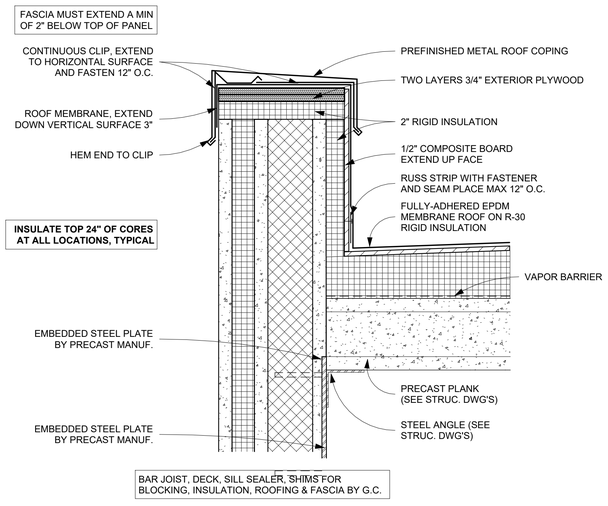
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WALL SECTIONS

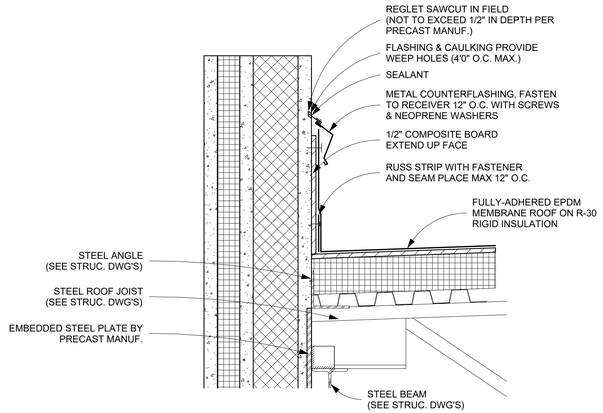
SHEET
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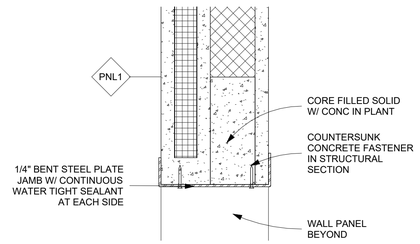
1 PC PARAPET
1 1/2" = 1'-0"



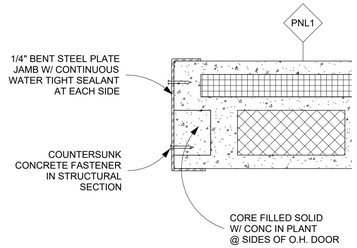
2 PC PARAPET @ PRECAST ROOF
1 1/2" = 1'-0"



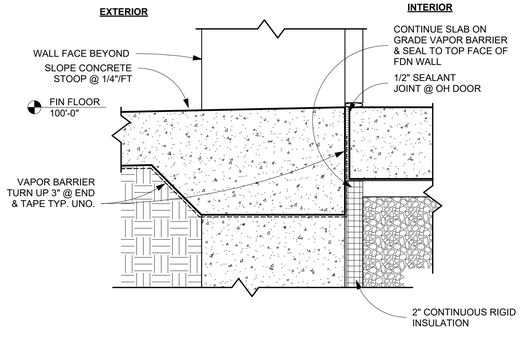
3 PC TO METAL ROOF (HIGH/LOW CONDITION)
1 1/2" = 1'-0"



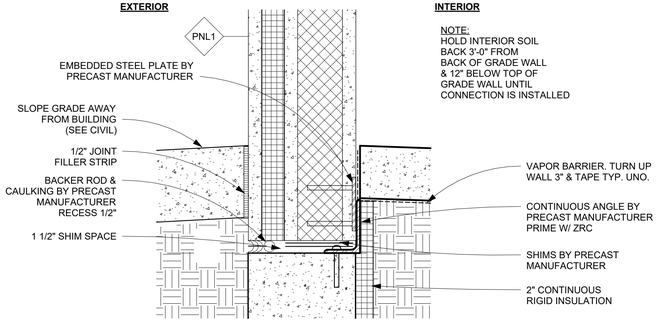
4 PC OVERHEAD DOOR HEADER FINISHED W/ BENT PLATE
1 1/2" = 1'-0"



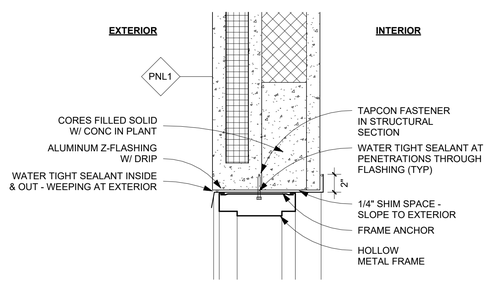
5 PC OVERHEAD DOOR JAMB FINISHED W/ BENT PLATE
1 1/2" = 1'-0"



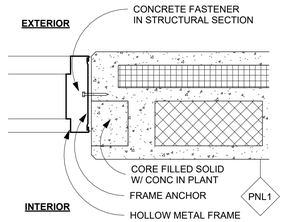
6 OVERHEAD DOOR SILL
1 1/2" = 1'-0"



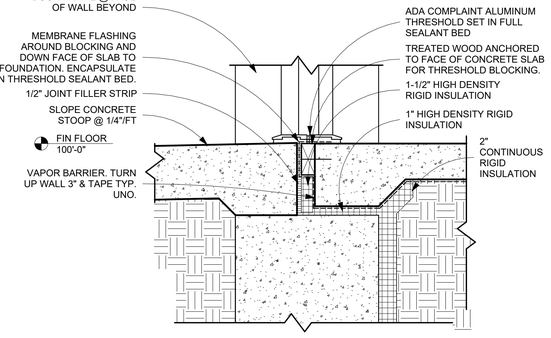
7 -PC TO FOUNDATION @ PAVEMENT
1 1/2" = 1'-0"



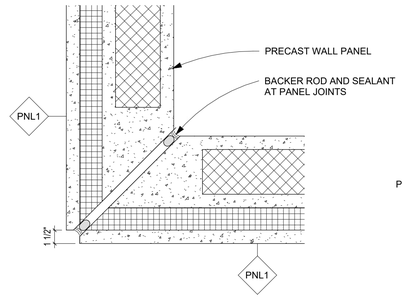
8 PC PEDESTRIAN DOOR HEAD
1 1/2" = 1'-0"



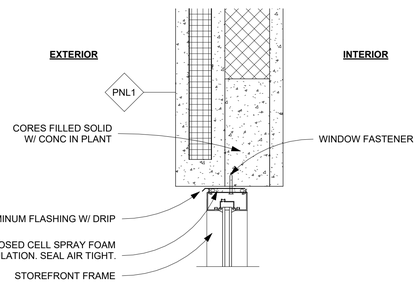
9 PC PEDESTRIAN DOOR JAMB
1 1/2" = 1'-0"



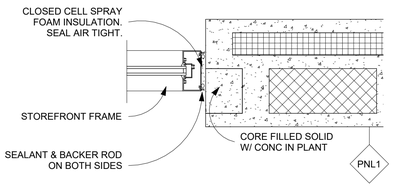
10 PC PEDESTRIAN DOOR THRESHOLD
1 1/2" = 1'-0"



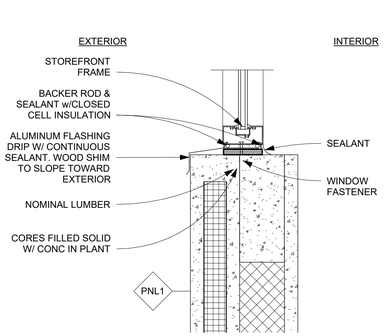
11 PC OUTSIDE CORNER
1 1/2" = 1'-0"



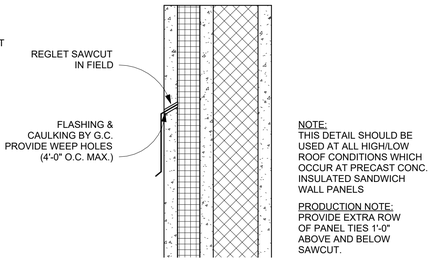
12 PC WINDOW HEAD
1 1/2" = 1'-0"



13 PRECAST WINDOW JAMB
1 1/2" = 1'-0"



14 PRECAST WINDOW SILL
1 1/2" = 1'-0"



15 PC REGLET SAWCUT DETAIL
1 1/2" = 1'-0"

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Jackson County Highway Facility

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	DATE	DESCRIPTION
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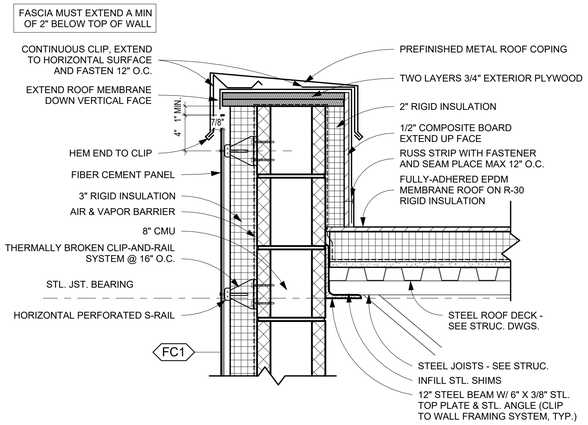
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BARRIENTOS DESIGN PROJECT NUMBER
50923

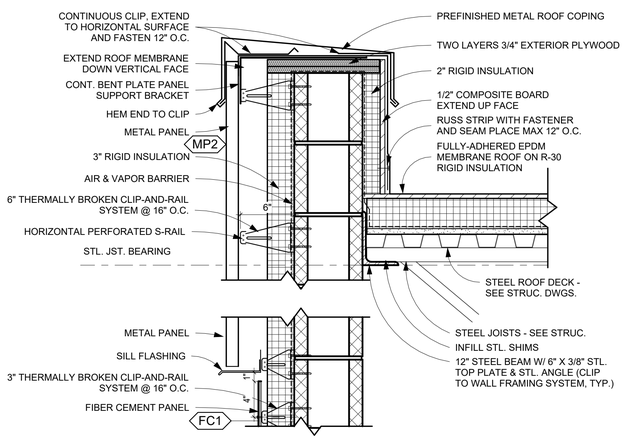
DATE
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SHEET TITLE
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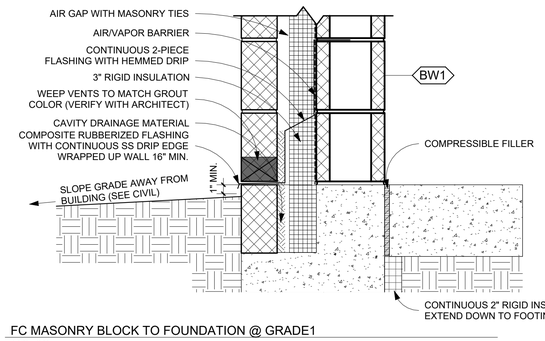
SHEET
A400



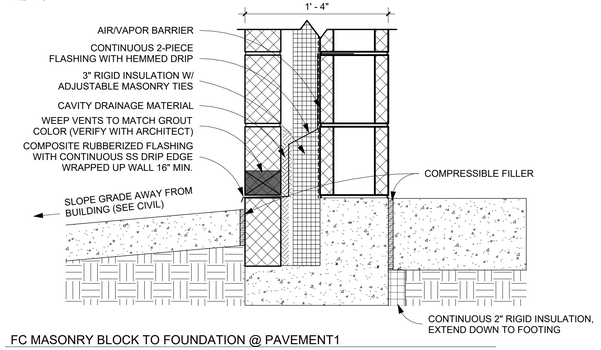
1 FC WALL-TO-ROOF1
1 1/2" = 1'-0"



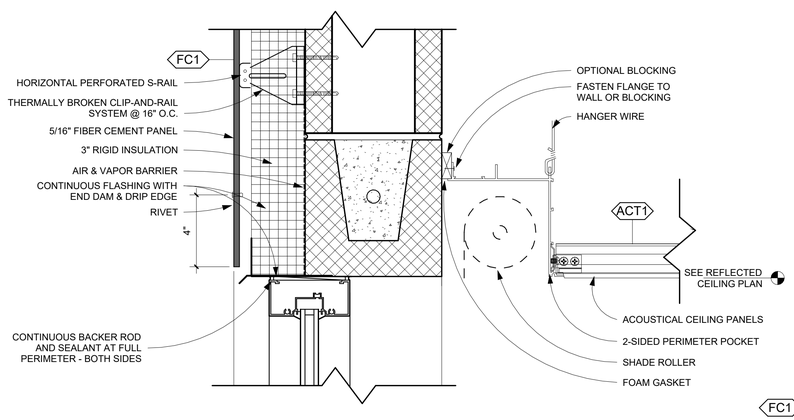
2 METAL PANEL TO ROOF
1 1/2" = 1'-0"



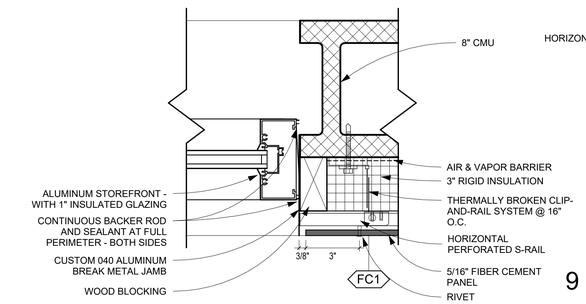
3 FC MASONRY BLOCK TO FOUNDATION @ GRADE1
1 1/2" = 1'-0"



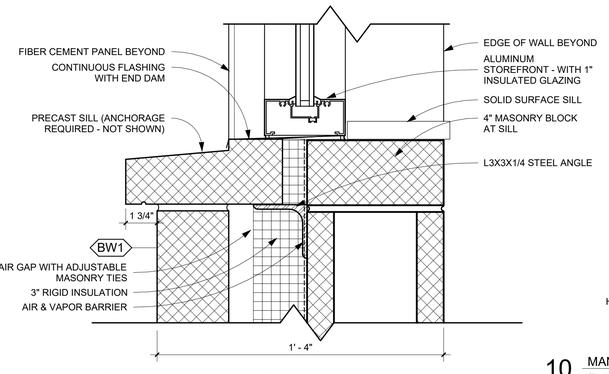
4 FC MASONRY BLOCK TO FOUNDATION @ PAVEMENT1
1 1/2" = 1'-0"



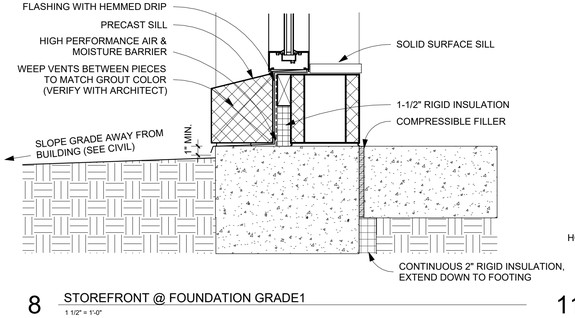
5 FC WINDOW HEAD @ CMU BACKUP
3" = 1'-0"



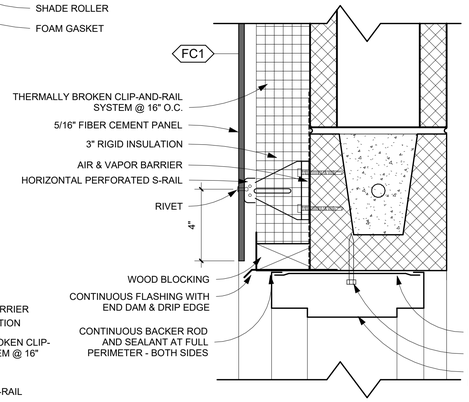
6 FC WINDOW JAMB @ CMU BACKUP
3" = 1'-0"



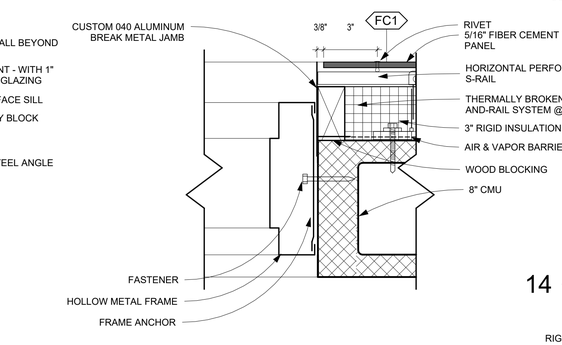
7 FC WINDOW SILL @ CMU BACKUP
3" = 1'-0"



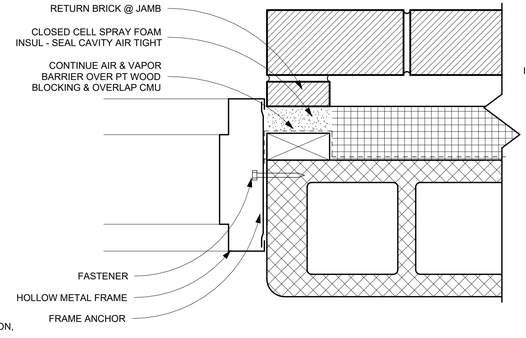
8 STOREFRONT @ FOUNDATION GRADE1
1 1/2" = 1'-0"



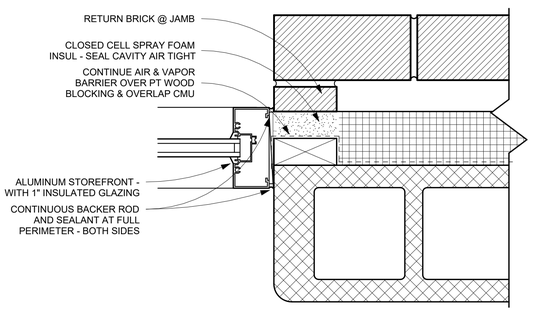
9 PEDESTRIAN DOOR HEAD AT FIBER CEMENT
3" = 1'-0"



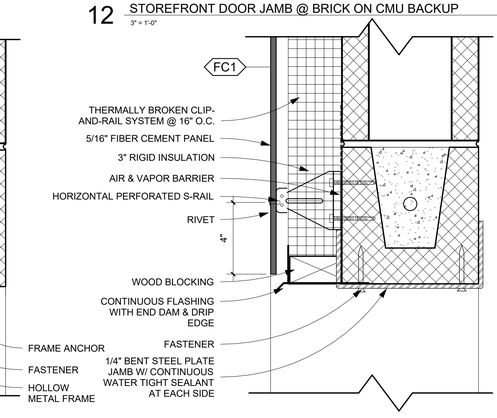
10 MAN DOOR JAMB AT FIBER CEMENT
3" = 1'-0"



11 MAN DOOR JAMB @ BRICK ON CMU BACKUP
3" = 1'-0"

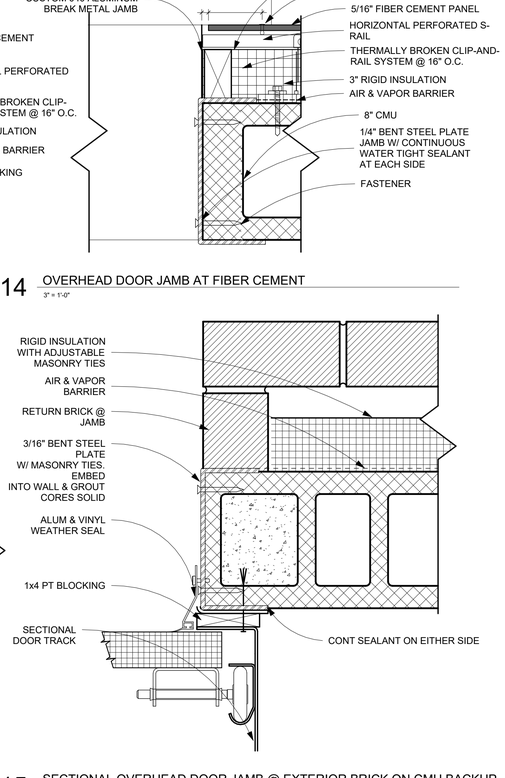


12 STOREFRONT DOOR JAMB @ BRICK ON CMU BACKUP
3" = 1'-0"



13 OVERHEAD DOOR HEADER AT FIBER CEMENT
3" = 1'-0"

14 OVERHEAD DOOR JAMB AT FIBER CEMENT
3" = 1'-0"



15 SECTIONAL OVERHEAD DOOR JAMB @ EXTERIOR BRICK ON CMU BACKUP
3" = 1'-0"

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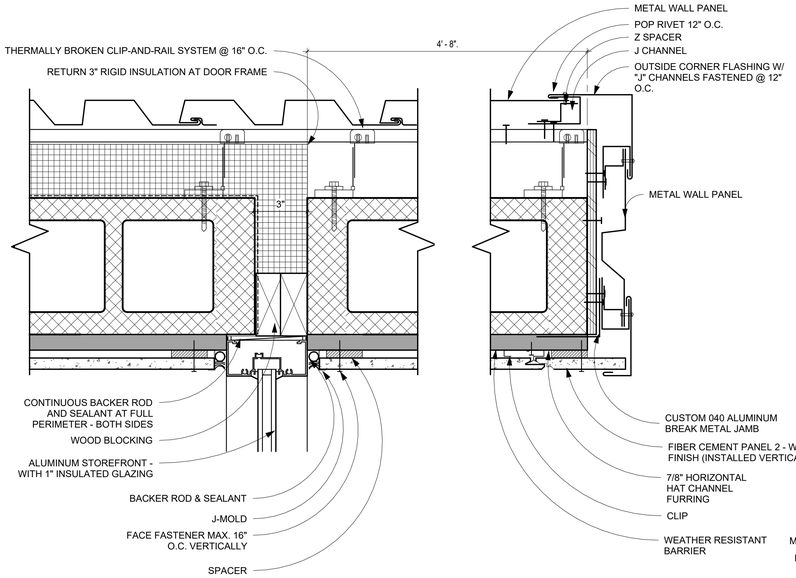
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SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

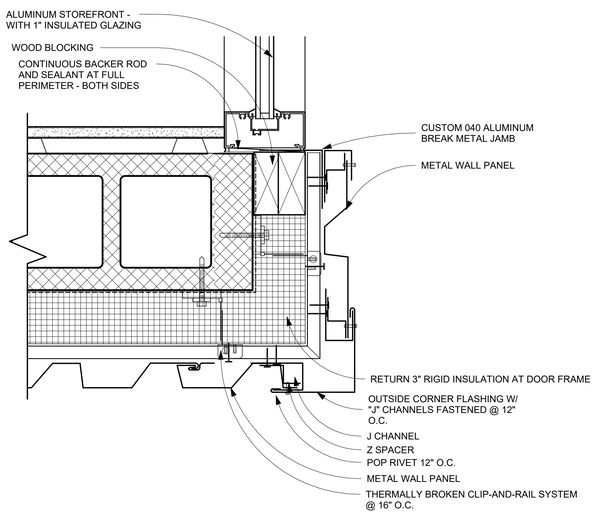
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EXTERIOR DETAILS

SHEET
A401



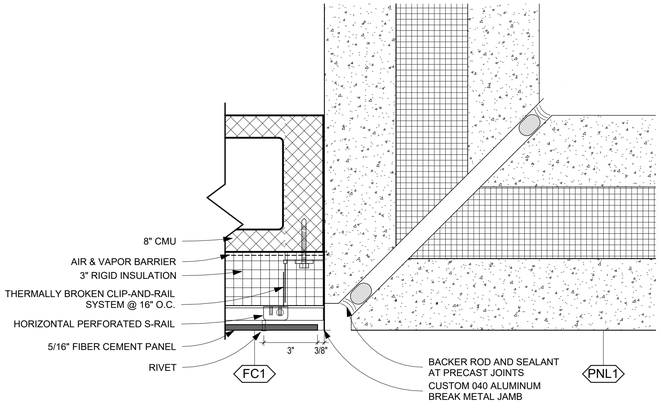
1 ADMIN CANOPY - NORTH STOREFRONT JAMB

3" = 1'-0"



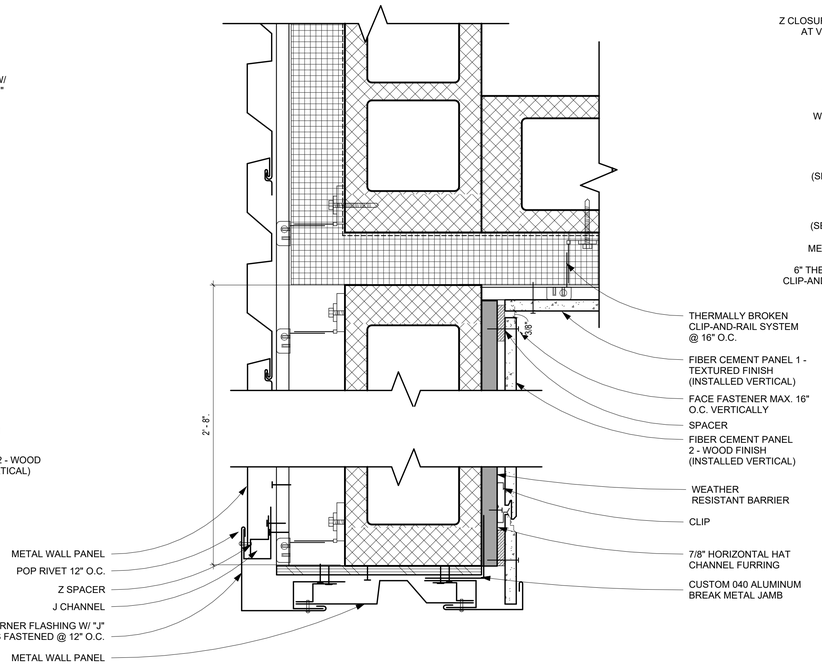
2 ADMIN CANOPY - SOUTH STOREFRONT JAMB

3" = 1'-0"



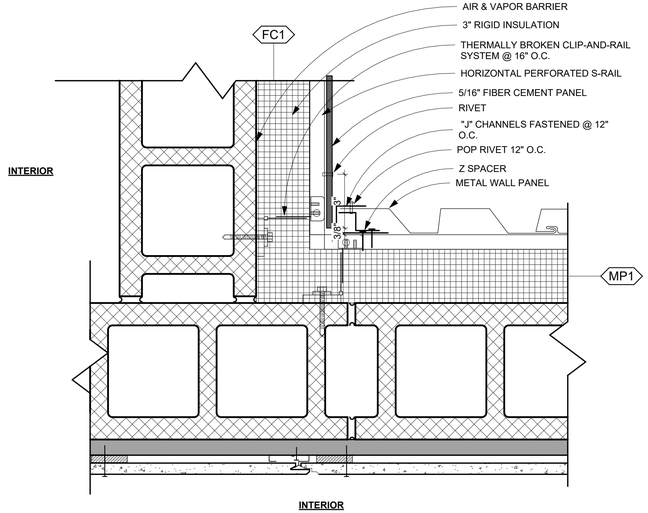
3 PRECAST TO FIBER CEMENT PANEL

3" = 1'-0"



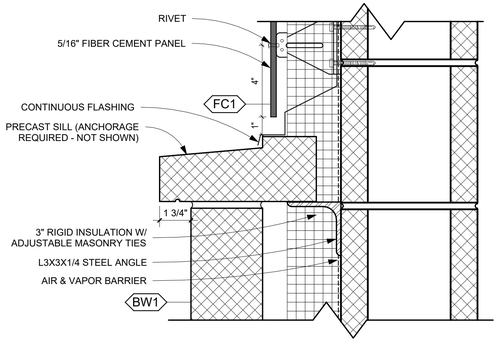
4 CREW CANOPY - WEST JAMB

3" = 1'-0"



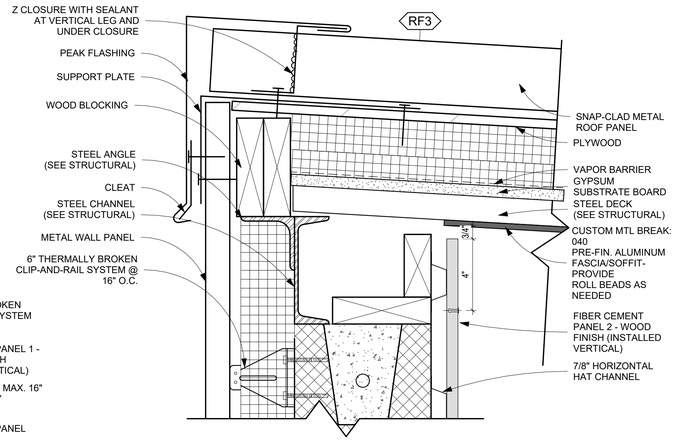
5 INSIDE CORNER FIBER CEMENT & METAL PANEL

3" = 1'-0"



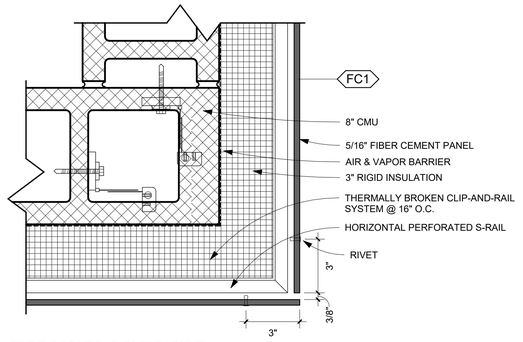
6 FIBER CEMENT TO BLOCK WALL

3" = 1'-0"



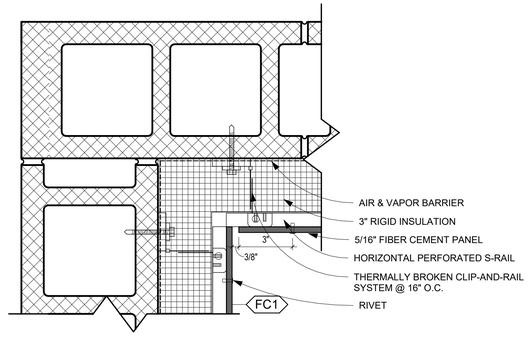
7 CREW CANOPY HIGH SIDE EAVE - EXTERIOR

3" = 1'-0"



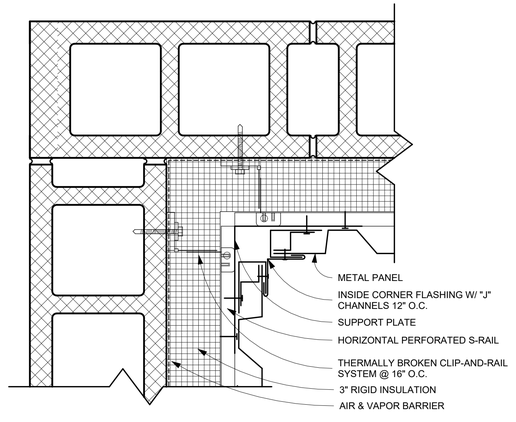
8 FC OUTSIDE CORNER @ CMU BACKUP

3" = 1'-0"



9 INSIDE CORNER FIBER CEMENT

3" = 1'-0"



10 INSIDE CORNER METAL PANEL

3" = 1'-0"

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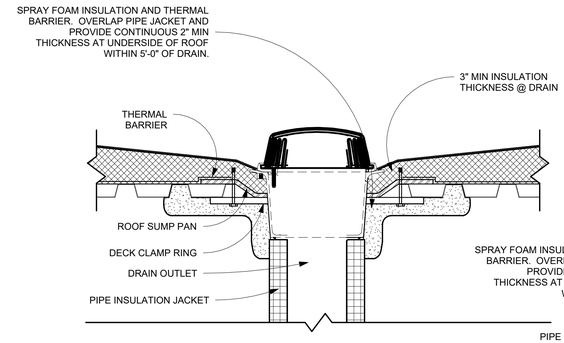
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BARRIENTOS DESIGN PROJECT NUMBER
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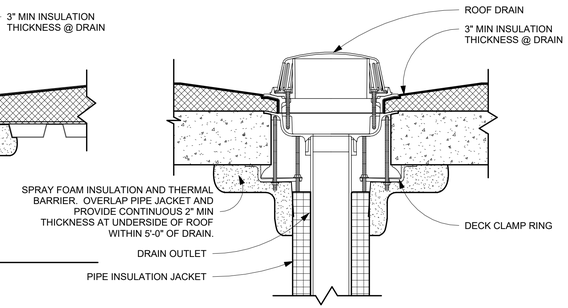
DATE
06.22.2026

SHEET TITLE
EXTERIOR DETAILS

SHEET
A402

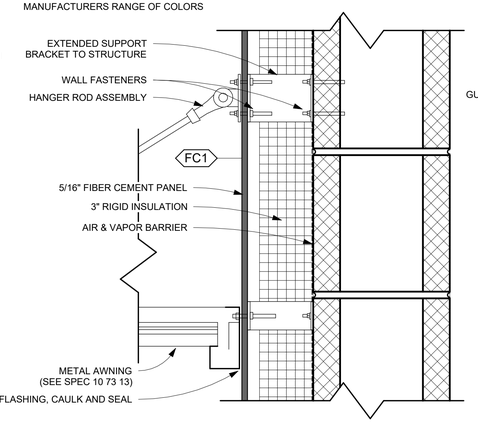


1 ROOF PENETRATION
1 1/2" = 1'-0"

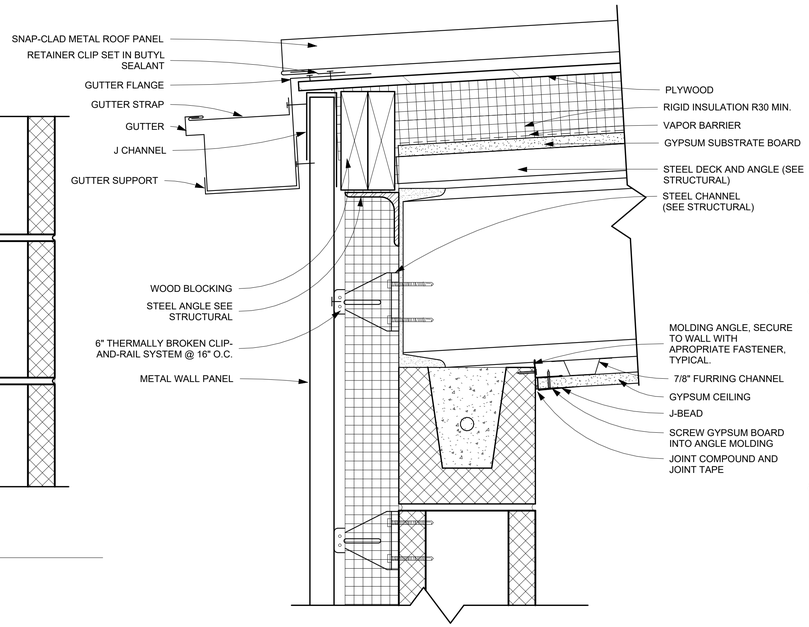


5 ROOF DRAIN @ CONC DECK
1 1/2" = 1'-0"

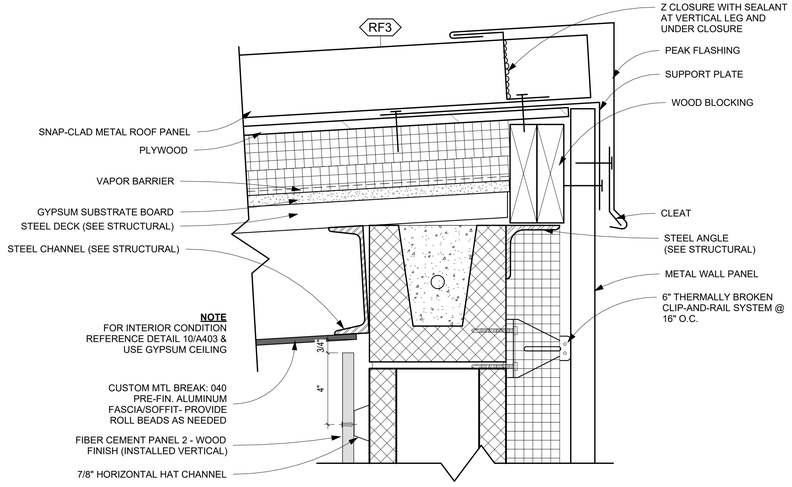
GENERAL NOTE:
ARCHITECT TO SELECT FINISH FROM MANUFACTURERS RANGE OF COLORS



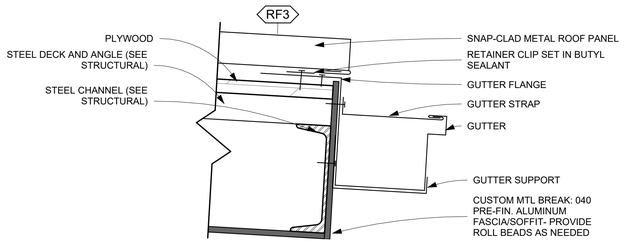
6 METAL AWNING TO WALL
3" = 1'-0"



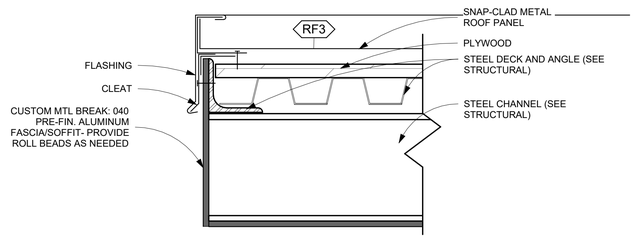
10 ENTRY CANOPY LOW EAVE WITH GUTTER - INTERIOR
3" = 1'-0"



2 ADMIN CANOPY HIGH SIDE EAVE - EXTERIOR
3" = 1'-0"

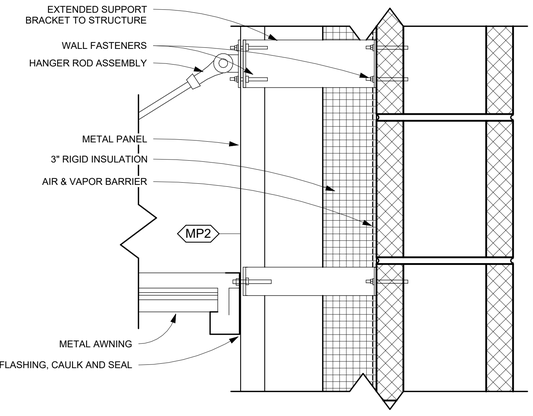


3 CANOPY LOW SIDE EAVE AT GUTTER
3" = 1'-0"

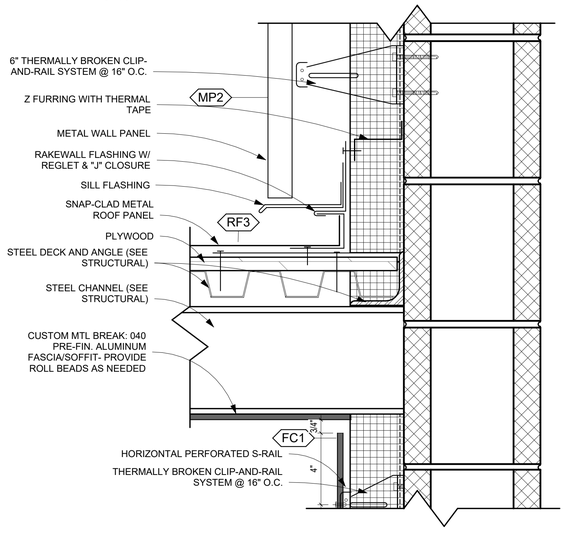


4 CANOPY GABLE END
3" = 1'-0"

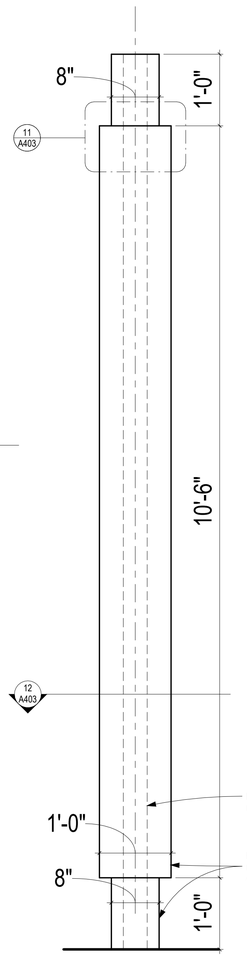
GENERAL NOTE:
ARCHITECT TO SELECT FINISH FROM MANUFACTURERS RANGE OF COLORS



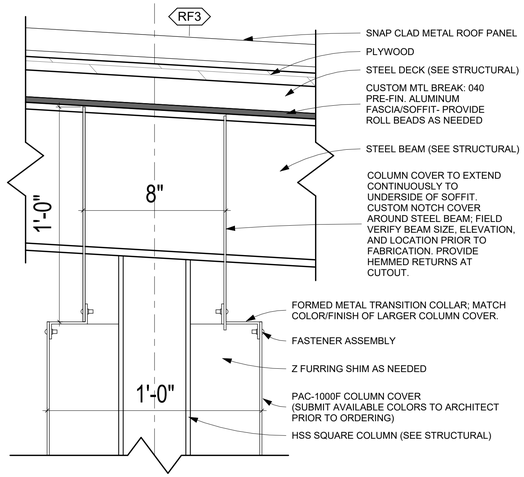
7 METAL AWNING TO METAL PANEL WALL
3" = 1'-0"



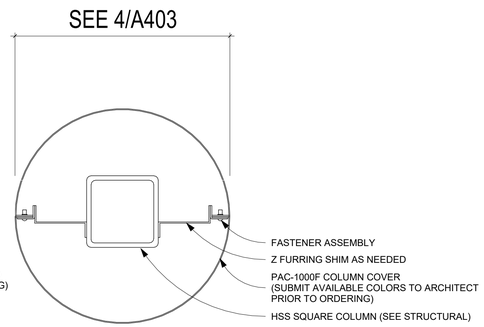
8 METAL ROOF TO METAL WALL
3" = 1'-0"



9 CANOPY COLUMN WRAP
1" = 1'-0"



11 CANOPY COLUMN WRAP TO SOFFIT SECTION
3" = 1'-0"



12 CANOPY COLUMN WRAP SECTION
3" = 1'-0"

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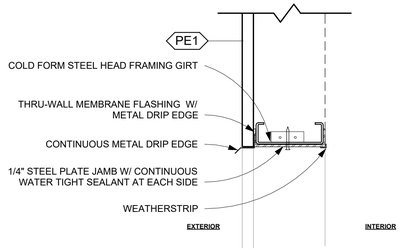
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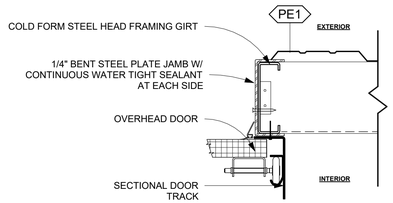
SHEET TITLE
EXTERIOR DETAILS

SHEET
A403



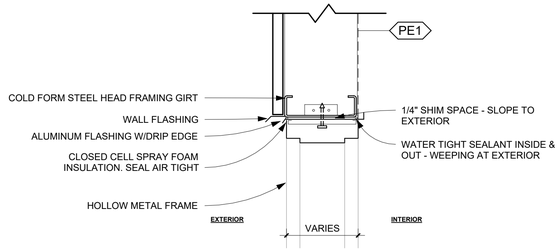
1 PEMB OVERHEAD DOOR HEAD

1 1/2" = 1'-0"



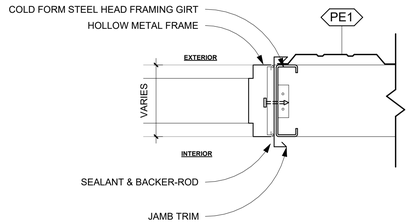
2 PEMB OVERHEAD DOOR JAMB

1 1/2" = 1'-0"



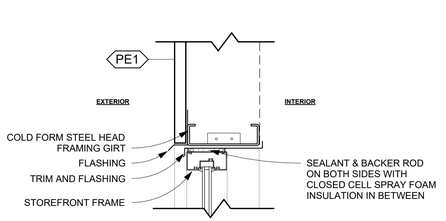
3 PEMB PEDESTRIAN DOOR HEAD

1 1/2" = 1'-0"



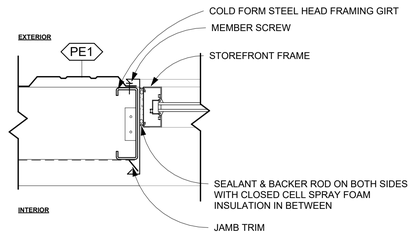
4 PEMB PEDESTRIAN DOOR JAMB

1 1/2" = 1'-0"



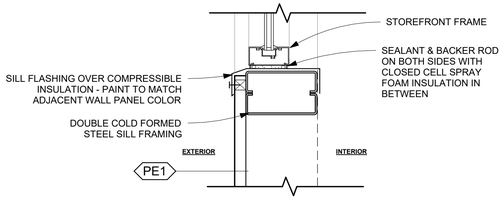
5 PEMB WINDOW HEADER

1 1/2" = 1'-0"



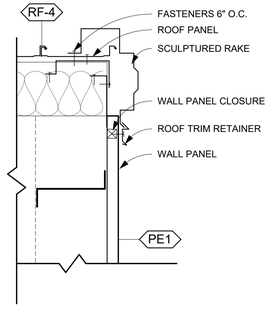
6 PEMB WINDOW JAMB

1 1/2" = 1'-0"



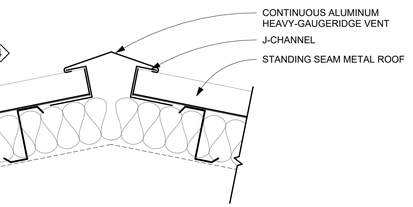
7 PEMB WINDOW SILL

1 1/2" = 1'-0"



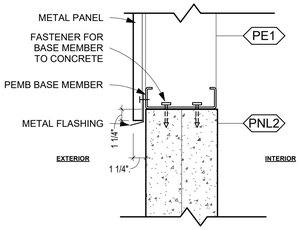
8 PEMB RAKE CONDITION

1 1/2" = 1'-0"



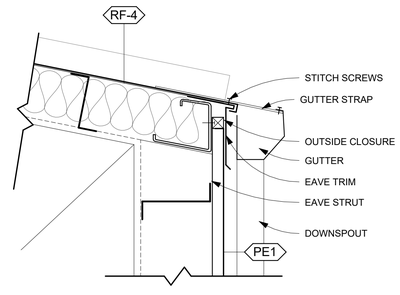
9 PEMB ROOF RIDGE

1 1/2" = 1'-0"



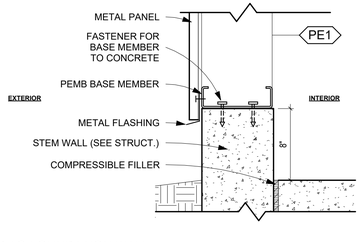
10 PEMB TO PC WALL

1 1/2" = 1'-0"



11 PEMB WALL TO ROOF

1 1/2" = 1'-0"



12 PEMB TO FOUNDATION WALL

1 1/2" = 1'-0"

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REVISIONS

DATE	DESCRIPTION

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SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
PEMB EXTERIOR DETAILS

SHEET
A404

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE		WALLS				Ceiling:	COMMENTS
			BASE	HEIGHT	NORTH	EAST	SOUTH	WEST	Finish	
99	ENTRY VESTIBULE	EPOXY-1	EPOXY	4"		PT-1	PT-1	PT-1	PT-1	
100	ADMIN ASSISTANT	EPOXY-1	EPOXY	4"	PT-2	PT-1	PT-2	PT-1	ACT-1	1
101	SIGN OFFICE	EPOXY-1	EPOXY	4"	PT-2	PT-1	PT-2	PT-1	ACT-1	1
102	CONFERENCE	EPOXY-1	EPOXY	4"	PT-2	PT-1	PT-2	PT-1	ACT-1	1,4, GYP BOARD ON CEILING TO BE PAINTED PT-2
103	OFFICE MANAGER	EPOXY-1	EPOXY	4"	PT-2	PT-1	PT-2	PT-1	ACT-1	1
104	HIGHWAY COMMISSIONER	EPOXY-1	EPOXY	4"	PT-2	PT-1	PT-2	PT-1	ACT-1	1
104A	KITCHENETTE	EPOXY-1	EPOXY	4"	PT-1	PT-1	PT-1	PT-2	ACT-1	1
105	FOREMAN OFFICE	EPOXY-1	EPOXY	4"	PT-2	PT-1	PT-2	PT-1	ACT-1	
106	PATROL SUPT. & OPS. MANAGER	EPOXY-1	EPOXY	4"	PT-2	PT-1	PT-2	PT-1	ACT-1	
107	RESTROOM	EPOXY-2	EPOXY	4"	PT-1	PT-1			ACT-1	4, SEE A700/5 AND A700/6 FOR TILE LAYOUT
108	RESTROOM	EPOXY-2	EPOXY	4"		PT-1	PT-1		ACT-1	4, SEE A700/1 AND A700/2 FOR TILE LAYOUT
109	IT/DATA	EPOXY-1	EPOXY	4"	PT-1	PT-1	PT-2	PT-1	ACT-1	
110	RECORD & ARCHIVE	EPOXY-1	EPOXY	4"	PT-2	PT-1	PT-1	PT-1	ACT-1	
111	MENS	EPOXY-2	EPOXY	4"	PT-1	PT-1	PT-3	PT-1	ACT-1	2, 4, SEE A700/9 FOR TILE LAYOUT
112	WOMENS	EPOXY-2	EPOXY	4"	PT-3	PT-1	PT-1	PT-1	ACT-1	2, 4, SEE A700/8 FOR TILE LAYOUT
113	LAUNDRY	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	ACT-1	
114	MECHANICAL	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	ACT-1	
115	PASS	EPOXY-1	EPOXY	4"	PT-1	PT-1	PT-1	PT-1	ACT-1	
115A	WELLNESS ROOM	EPOXY-1	EPOXY	4"	PT-2	PT-1	PT-1	PT-1	ACT-1	
115B	WELLNESS ROOM	EPOXY-1	EPOXY	4"	PT-2	PT-1	PT-1	PT-1	ACT-1	
116	BREAK ROOM	EPOXY-1	EPOXY	4"	PT-1	PT-1	PT-1	PT-2	PT-2	1, CEILING STRUCTURE AND DUCTWORK TO BE PT-2
116A	BREAK ROOM VESTIBULE	EPOXY-1	EPOXY	4"	PT-1	PT-1	PT-1	PT-1	PT-2	
117	PARTS STORAGE	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	ACT-1	
118	CHAINSAWS & SMALL TOOLS	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	ACT-1	
119	FLUIDS & SPRAYS	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	ACT-1	
120	POWERED TOOLS	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	ACT-1	
121	TRASH	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	ACT-1	
122	MECHANIC OFFICE	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	ACT-1	
123	WORKSTATIONS	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	ACT-1	
124	MECHANIC TOOLS	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	ACT-1	
125	BATHROOM	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	ACT-1	
126	BULK FLUID	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	ACT-1	
127	REPAIR GARAGE	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	PT-1	5,6
128	FABRICATION SHOP	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	PT-1	5,6
129	FABRICATION OFFICE	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	ACT-1	
130	HEATED PARKING GARAGE	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	PT-1	
133	VEHICLE WASH	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	PT-1	WALLS & CEILING TO BE FINISHED WITH HIGH-PERFORMANCE COATING SEE SPEC.
134	VEHICLE WASH CLOSET	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	PT-1	
136	COLD STORAGE	CONC.	-	0"						
137	VEHICLE COLD STORAGE	CONC.	-	0"						
138	SALT BRINE SHED	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	PT-1	
200	MEZZANINE	CONC.	-	0"	PT-1	PT-1	PT-1	PT-1	PT-1	6
C100	CORRIDOR	EPOXY-1 / EPOXY 2	EPOXY	4"	PT-1	PT-1	PT-1	PT-1	ACT-1	SEE PLANS FOR LOCATION OF FLOORING CHANGE
C101	CORRIDOR	EPOXY-1	EPOXY	4"	PT-1	PT-1	PT-1	PT-1	ACT-1	

GENERAL NOTES

ALL WALL PAINTS TO BE SHERWIN WILLIAMS SATIN/EGGSHELL FINISH

ALL RAILINGS IN GARAGES TO BE PT-3

ONLY ROOMS 107 AND 108 SHALL BE PROVIDED WITH BUILT-IN WASTE BINS. ALL OTHER ROOMS WITH PAPER TOWEL DISPENSERS SHALL NOT HAVE BUILT-IN WASTE BINS. REFER TO DETAIL 4/A002.

ALL GYP BOARD CEILING AND EXPOSED CEILING STRUCTURE SHALL BE PT-6 UNLESS OTHERWISE NOTED.

ALL SOLID SURFACE WINDOW SILLS TO BE SS-2 UNLESS OTHERWISE NOTED

ALL INTERIOR STEEL STRUCTURE AND CRANE RAILS IN REPAIR GARAGE TO BE PT-5

FINISHES

	ABBREVIATION	DESCRIPTION
PAINT (INTERIOR)	PT-1 (OFFICE FIELD COLOR)	SHERWIN WILLIAMS - SW 7042, SHOJI WHITE
	PT-2 (ACCENT COLOR)	SHERWIN WILLIAMS - SW 7598, SIERRA REDWOOD
	PT-3 (ACCENT COLOR)	SHERWIN WILLIAMS - SW 9176, DRESS BLUES
	PT-4 (DOOR FRAME COLOR)	SHERWIN WILLIAMS - SW 9096, BEIGE INTENSO
	PT-5 (SAFETY YELLOW)	SHERWIN WILLIAMS - SW 4084, SAFETY YELLOW
	PT-6 (CEILING)	SHERWIN WILLIAMS - SW 7007, CEILING BRIGHT WHITE
PAINT (EXTERIOR)	PT-7 (PRECAST PANEL COLOR)	SHERWIN WILLIAMS - SW 9101, TRES NATURALE
	PT-8 (PRECAST ACCENT COLOR)	SHERWIN WILLIAMS - SW 9092, ICED MOCHA
TILE	T-1	CROSSVILLE - ARGENT 2.0, WHITE TIGER, 4"X8"
	T-2	CROSSVILLE - ARGENT 2.0, NIGHT SKY, 4"x24"
	T-3	CROSSVILLE - ARGENT 2.0, NIGHT SKY, 4"x8"
FLOORING	EPOXY-1	SHERWIN WILLIAMS - RESUFLOOR, SANDY BEIGE (78) AND WHITE (59) SWIRL
	EPOXY-2	SHERWIN WILLIAMS - RESUFLOOR DECOFLAKE, MOOSE, 1/4" FLAKE SIZE
	CONC.	CONCRETE - SEALED CONCRETE
BASE	EPOXY	EPOXY BASE
LAMINATE	PLAM-1	PIONITE - WW120-WE, A GOOD BOOK
	PLAM-2	PIONITE - HP451-SD, PEPPERDUST
SOLID SURFACE	SS-1	FORMICA - 744, CREMA TERRAZZO
	SS-2	FORMICA - 103, FROST
SOLAR ROLLER	SR-1	HUNTER DOUGLAS - BRUNSWICK, ANGORA

COMMENTS - ROOM FINISH

1 - PROVIDE SOLAR ROLLER - SR-1 FOR ALL WINDOWS IN ROOM

2 - PLACE 4" EPOXY BASE ON CONCRETE BASE OF LOCKERS

3 - PAINT PT-5 FOR ALL ITEMS REQUIRING SAFETY COLOR BY CODE

4 - SEE INTERIOR ELEVATIONS FOR WALL FINISH DETAIL

5 - PAINT INTERIOR PRECAST CONCRETE PANELS PT-3 FROM FINISEHD FLOOR TO 4'-0" AFF AND PT-1 FROM 4'0" AFF TO UNDERSIDE OF STRUCTURE IN PARKING AND REPAIR GARAGE

6 - PT-6 FROM T.O. CRANE TO CEILING ON INTERIOR STEEL STRUCTURE

GLASS LEGEND

IGT INSULATED GLASS - TEMPERED

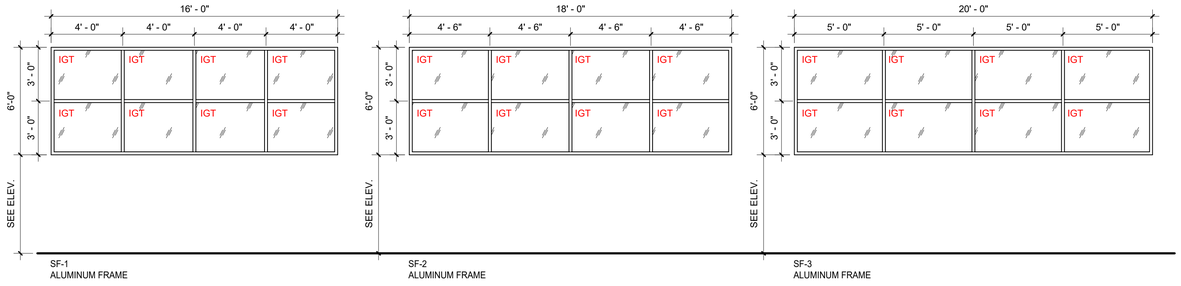
MGT MONOLITHIC GLASS - TEMPERED

ACCESSORY LEGEND

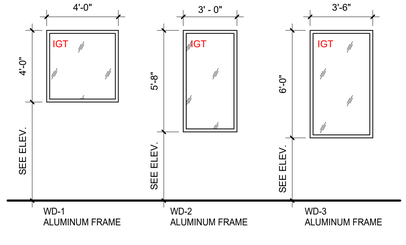
DESCRIPTION	QUANTITY	ROOMS
TOILET TISSUE DISPENSER	7	(1) 107, (1) 108, (2) 111, (2) 112, (1) 125
PAPER TOWEL DISPENSER	6	(1) 104A, (2) 111, (1) 112, (1) 113, (1) 116, (1) 125
COMBINATION TOWEL DISPENSER/WASTE RECEPTACLE	2	(1) 107, (1) 108
SOAP DISPENSER	10	(1) 104A, (1) 107, (1) 108, (2) 111, (2) 112, (1) 113, (1) 116, (1) 125
GRAB BARS	7	(1) 107, (1) 108, (2) 111, (2) 112, (1) 125
SANITARY DISPOSAL UNIT	3	(1) 108, (2) 112
SHOWER CURTAIN ROD	2	(1) 111, (1) 112
SHOWER CURTAIN	2	(1) 111, (1) 112
FOLDING SHOWER SEAT	2	(1) 111, (1) 112
ROBE HOOK	2	(1) 111, (1) 112
DRESSING AREA BENCH	6	(5) 111, (1) 112, SEE KEY NOTE 14
MOP AND BROOM HOLDER	1	(1) 113

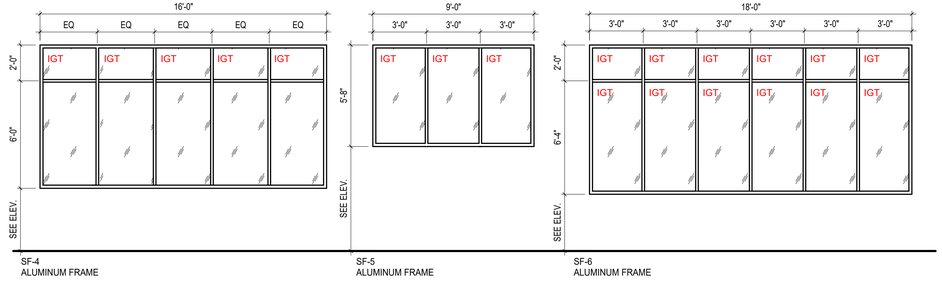
GENERAL NOTE

- SEE SPEC 10 28 00
- CONTRACTOR TO VERIFY ALL ACCESSORY LOCATIONS WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.



SEE ELEVATIONS FOR WINDOW LOCATIONS





1 WINDOW TYPES
1/4" = 1'-0"

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	DATE	DESCRIPTION
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SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
SCHEDULES - ROOM FINISHES/WINDOWS

SHEET
A600

DOOR AND FRAME SCHEDULE

DOOR #	ROOM NAME	DOOR DIMENSIONS WIDTH	HEIGHT	THICK	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLASS	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HARDWARE GROUP	COMMENT NOTES
99	ENTRY VESTIBULE	2'-10 1/8"	6'-11"	1 3/4"	D1	ALUM	ANOD	IGT	F2	ALUM	ANOD	10	6
99A	ENTRY VESTIBULE	3'-0"	7'-0"	1 3/4"	D1	ALUM	ANOD	IG	F2	ALUM	ANOD	11	5,6
99B	CORRIDOR	2'-10"	7'-0"	1 3/4"	D1	ALUM	ANOD	IG	F2	ALUM	ANOD	12	5
100	ADMIN ASSISTANT	3'-0"	7'-0"	1 3/4"	D2	WD	STN		F1	HM	PT-4	1E	8
101	SIGN OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	STN		F1	HM	PT-4	1E	8
102	CONFERENCE	3'-0"	7'-0"	1 3/4"	D2	WD	STN		F1	HM	PT-4	1C	
102A	CONFERENCE	3'-0"	7'-0"	1 3/4"	D2	WD	STN		F1	HM	PT-4	2C	
103	OFFICE MANAGER	3'-0"	7'-0"	1 3/4"	D2	WD	STN		F1	HM	PT-4	1E	8
104	HIGHWAY COMMISSIONER	3'-0"	7'-0"	1 3/4"	D2	WD	STN		F1	HM	PT-4	1E	8
105	FOREMAN OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	STN		F1	HM	PT-4	1E	8
106	PATROL SUPT. & OPS. MANAGER	3'-0"	7'-0"	1 3/4"	D2	WD	STN		F1	HM	PT-4	1E	8
107	RESTROOM	3'-0"	7'-0"	1 3/4"	D2	WD	STN		F1	HM	PT-4	3P	8
108	RESTROOM	3'-0"	7'-0"	1 3/4"	D2	WD	STN		F1	HM	PT-4	3P	8
109	IT/DATA	3'-0"	7'-0"	1 3/4"	D2	WD	STN		F1	HM	PT-4	7	5
110	RECORD & ARCHIVE	3'-0"	7'-0"	1 3/4"	D2	WD	STN		F1	HM	PT-4	1C	8
111	MENS	3'-0"	7'-0"	1 3/4"	D3	HM	PT-4		F1	HM	PT-4	6	
111A	MENS	3'-0"	7'-0"	1 3/4"	D3	HM	PT-4		F1	HM	PT-4	6	
112	WOMENS	3'-0"	7'-0"	1 3/4"	D3	HM	PT-4		F1	HM	PT-4	3P	
113	LAUNDRY	3'-0"	7'-0"	1 3/4"	D3	HM	PT		F1	HM	PT-4	1L	
114	MECHANICAL	3'-0"	7'-0"	1 3/4"	D3	HM	PT		F1	HM	PT-4	3S	
115	PASS	2'-8"	7'-0"	1 3/4"	D4	HM	PT	IG	F2	HM	ANOD	5L	
115A	PASS	2'-8"	7'-0"	1 3/4"	D2	WD	STN		F1	HM	PT-4	1P	
115B	PASS	2'-8"	7'-0"	1 3/4"	D2	WD	STN		F1	HM	PT-4	1P	
116	BREAK ROOM	3'-0"	7'-0"	1 3/4"	D4	HM	PT-4	IG	F1	HM	PT-4	7	4,5
116A	BREAK ROOM VESTIBULE	2'-11"	7'-5"	1 3/4"	D1	ALUM	ANOD		F2	ALUM	ANOD	14	
116B	BREAK ROOM VESTIBULE	3'-0"	7'-0"	1 3/4"	D1	ALUM	ANOD	IGT	F2	ALUM	ANOD	13	5
116C	BREAK ROOM	3'-0"	7'-0"	1 3/4"	D5	HM	PT-4	IG	F1	HM	PT-4	3L	4
117	PARTS STORAGE	3'-0"	7'-0"	1 3/4"	D3	HM	PT		F1	HM	PT	7	5
117A	PARTS STORAGE	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	8	5
117B	PARTS STORAGE	10'-0"	10'-0"	2"	DOH-5	STEEL	PT	IGT	SYSTEM			4	2
118	CHAINSAWS & SMALL TOOLS	3'-0"	7'-0"	1 3/4"	D3	HM	PT		F1	HM	PT-4	3L	
119	FLUIDS & SPRAYS	3'-0"	7'-0"	1 3/4"	D3	HM	PT		F1	HM	PT-4	1L	
120	POWERED TOOLS	3'-0"	7'-0"	1 3/4"	D3	HM	PT		F1	HM	PT-4	1L	
121	TRASH	6'-0"	7'-0"	1 3/4"	D6	HM	PT		F3	HM	PT-4	9L	
122	MECHANIC OFFICE	3'-0"	7'-0"	1 3/4"	D3	HM	PT		F1	HM	PT-4	1E	
123	WORKSTATIONS	3'-0"	7'-0"	1 3/4"	D4	HM	PT	IGT	F1	HM	PT-4	3E	
123A	WORKSTATIONS	3'-0"	7'-0"	1 3/4"	D4	HM	PT	IGT	F1	HM	PT-4	3E	5
124	MECHANIC TOOLS	3'-0"	7'-0"	1 3/4"	D4	HM	PT		F1	HM	PT-4	1S	
125	BATHROOM	3'-0"	7'-0"	1 3/4"	D3	HM	PT		F1	HM	PT-4	1P	
126	BULK FLUID	6'-0"	7'-0"	1 3/4"	D6	HM	PT		F3	HM	PT-4	9S	FR
127	REPAIR GARAGE	3'-0"	7'-0"	1 3/4"	D3	HM	PT		F1	HM	PT-4	3S	
127A	REPAIR GARAGE	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	8	5
127B	REPAIR GARAGE	18'-0"	16'-0"	2"	DOH-2	STEEL	PT	IGT	SYSTEM			4	2
127C	REPAIR GARAGE	20'-0"	16'-0"	2"	DOH-1	STEEL	PT	IGT	SYSTEM			4	2
127D	REPAIR GARAGE	20'-0"	16'-0"	2"	DOH-1	STEEL	PT	IGT	SYSTEM			4	2
127E	REPAIR GARAGE	20'-0"	16'-0"	2"	DOH-1	STEEL	PT	IGT	SYSTEM			4	2
128	FABRICATION SHOP	3'-0"	7'-0"	1 3/4"	D4	HM	PT	IG	F1	HM	PT-4	6	
128A	FABRICATION SHOP	12'-0"	12'-0"	2"	DOH-3	STEEL	PT	IGT	SYSTEM			4	2
128B	FABRICATION SHOP	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	8	5
128C	FABRICATION SHOP	20'-0"	16'-0"	2"	DOH-1	STEEL	PT	IGT	SYSTEM			4	2
128D	FABRICATION SHOP	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	8	5
128E	FABRICATION SHOP	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	8	5
129	FABRICATION OFFICE	3'-0"	7'-0"	1 3/4"	D3	HM	PT		F1	HM	PT-4	1E	
130	HEATED PARKING GARAGE	3'-0"	7'-0"	1 3/4"	D5	HM	PT	IG	F1	HM	PT-4	3L	4
130A	HEATED PARKING GARAGE	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	8	5
130B	HEATED PARKING GARAGE	20'-0"	16'-0"	2"	DOH-1	STEEL	PT	IGT	SYSTEM			4	2,3
130C	HEATED PARKING GARAGE	20'-0"	16'-0"	2"	DOH-1	STEEL	PT	IGT	SYSTEM			4	2,3
130D	HEATED PARKING GARAGE	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	8	5
130E	HEATED PARKING GARAGE	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	8	5
130F	HEATED PARKING GARAGE	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	8	5
130G	HEATED PARKING GARAGE	20'-0"	16'-0"	2"	DOH-1	STEEL	PT	IGT	SYSTEM			4	2
130H	HEATED PARKING GARAGE	20'-0"	16'-0"	2"	DOH-1	STEEL	PT	IGT	SYSTEM			4	2
130I	HEATED PARKING GARAGE	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	8	5
130J	HEATED PARKING GARAGE	18'-0"	16'-0"	2"	DOH-6	STEEL	PT	IGT	SYSTEM			4	2
130K	HEATED PARKING GARAGE	18'-0"	16'-0"	2"	DOH-6	STEEL	PT	IGT	SYSTEM			4	2
130L	HEATED PARKING GARAGE	3'-0"	7'-0"	1 3/4"	D5	HM	PT	IG	F2	HM	PT-4	3L	4
130M	HEATED PARKING GARAGE	3'-0"	7'-0"	1 3/4"	D3	HM	PT		F1	HM	PT-4	7	5
133	VEHICLE WASH	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	3L	
133A	VEHICLE WASH	20'-0"	16'-0"	2"	DOH-1	STEEL	PT	IGT	SYSTEM			4	2,3
133B	VEHICLE WASH	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	8	5
133C	VEHICLE WASH	20'-0"	16'-0"	2"	DOH-1	STEEL	PT	IGT	SYSTEM			4	2
133D	VEHICLE WASH	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	8	5
133E	VEHICLE WASH	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	3L	
134	VEHICLE WASH CLOSET	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	1S	
134A	VEHICLE WASH CLOSET	6'-0"	7'-0"	1 3/4"	D8	FRP	ANOD		F4	ALUM	ANOD	9S	
136	COLD STORAGE	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	8	5
136A	COLD STORAGE	20'-0"	16'-0"	2"	DOH-1	STEEL	PT	IGT	SYSTEM			4	2
137	VEHICLE COLD STORAGE	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	8	5
137A	VEHICLE COLD STORAGE	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	8	5
137B	VEHICLE COLD STORAGE	20'-0"	16'-0"	2"	DOH-1	STEEL	PT	IGT	SYSTEM			4	2,3
137C	VEHICLE COLD STORAGE	20'-0"	16'-0"	2"	DOH-1	STEEL	PT	IGT	SYSTEM			4	2,3
137D	VEHICLE COLD STORAGE	3'-0"	7'-0"	1 3/4"	D3	STEEL	PT		F1	HM	PT-4	3S	7
138	SALT BRINE SHED	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	8	5
138A	SALT BRINE SHED	16'-0"	16'-0"	2"	DOH-4	STEEL	PT	IGT	SYSTEM			4	2
200	MEZZANINE	3'-0"	7'-0"	1 3/4"	D7	FRP	ANOD		F2	ALUM	ANOD	15	5

GENERAL NOTES

GENERAL NOTES INCLUDE...

DOOR STAIN - VT ARCHITECTURAL DOORS CHERRY WOOD WITH RAVINE FINISH

FRAME & DOOR PAINT - SHERWIN WILLIAMS SW 9101 - TRES NATURALE

COMMENTS - DOORS

1 REMOTE DOOR OPERATION

2 ELECTRIC OPERATED DOOR WITH MANUAL OVERRIDE

3 PHOTO EYE AUTOMATIC DOOR OPENER AT EXIT

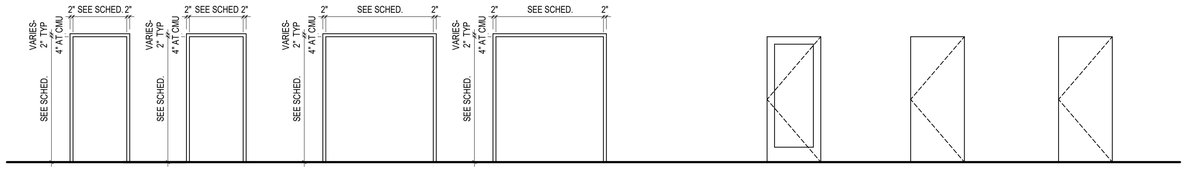
4 ACOUSTICAL RATED DOORS

5 CARD READER

6 AUTO OPENER

7 PROVIDE INSULATED HOLLOW METAL DOOR WITH PERIMETER GASKET, SWEEP, AND THRESHOLD

8 DOOR MOUNTED COAT HOOKS SEE 1/A002



F1 HOLLOW METAL FOR SINGLE

F2 ALUM METAL FOR SINGLE

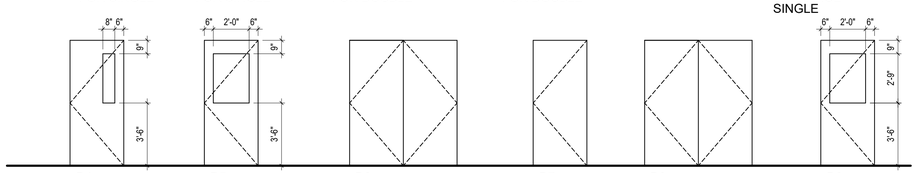
F3 HOLLOW METAL FOR DOUBLE

F4 ALUM METAL FOR DOUBLE

D1 ALUMINUM ENTRANCE SINGLE

D2 FLUSH WOOD

D3 FLUSH HOLLOW METAL



D4 FLUSH HOLLOW METAL WITH LITE

D5 FLUSH HOLLOW METAL WITH FULL LITE

D6 FLUSH HOLLOW METAL - DOUBLE

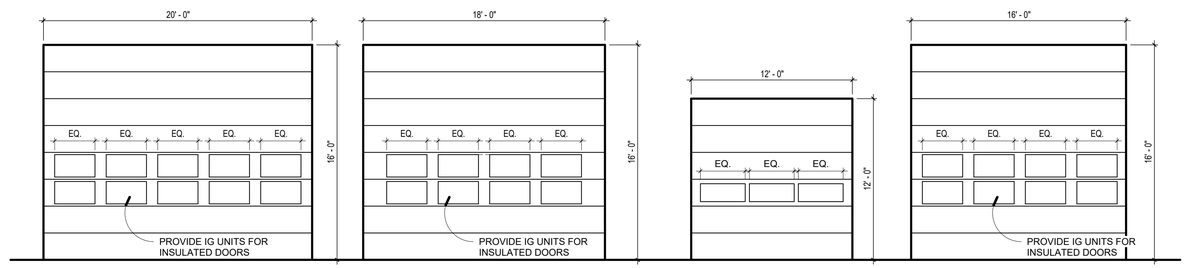
D7 FLUSH HYBRID FRP/ALUM

D8 FLUSH HYBRID FRP/ALUM - DOUBLE

D9 FLUSH HYBRID FRP/ALUM WITH FULL LITE

1 DOOR AND FRAME TYPES

1/4" = 1'-0"

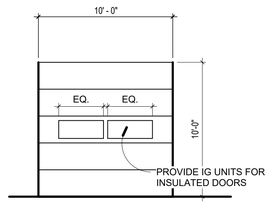


DOH-1 INSULATED SECTIONAL OVERHEAD DOOR

DOH-2 INSULATED SECTIONAL OVERHEAD DOOR

DOH-3 INSULATED SECTIONAL OVERHEAD DOOR

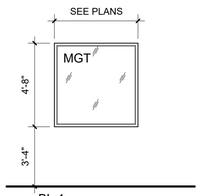
DOH-4 INSULATED SECTIONAL OVERHEAD DOOR



DOH-5 INSULATED SECTIONAL OVERHEAD DOOR

2 OVERHEAD DOOR TYPES

3/16" = 1'-0"



BL-1 HOLLOW METAL FRAME

3 BORROWED LITE TYPES

1/4" = 1'-0"

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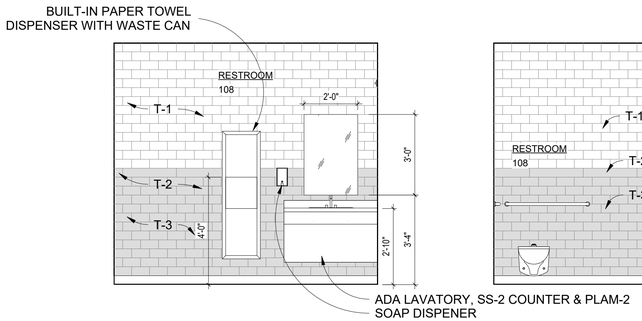
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50923

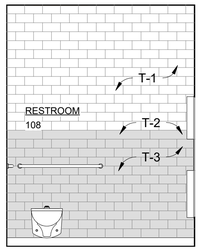
DATE
06.22.2026

SHEET TITLE
SCHEDULES - DOORS

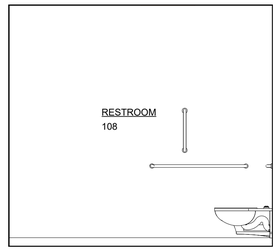
SHEET
A601



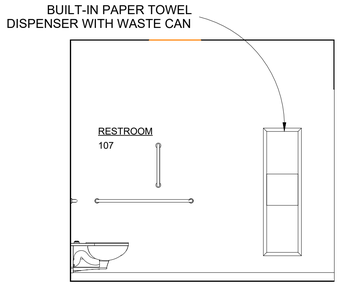
1 RESTROOM 108 - NORTH
3/8" = 1'-0"



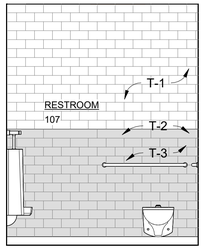
2 RESTROOM 108 - WEST
3/8" = 1'-0"



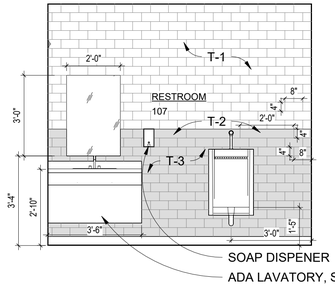
3 RESTROOM 108 - SOUTH
3/8" = 1'-0"



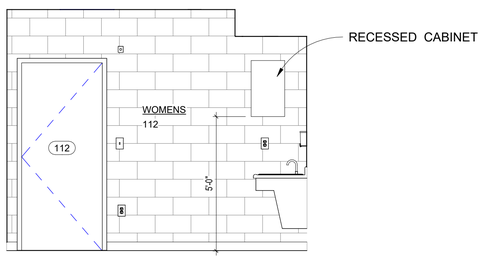
4 RESTROOM 107 NORTH
3/8" = 1'-0"



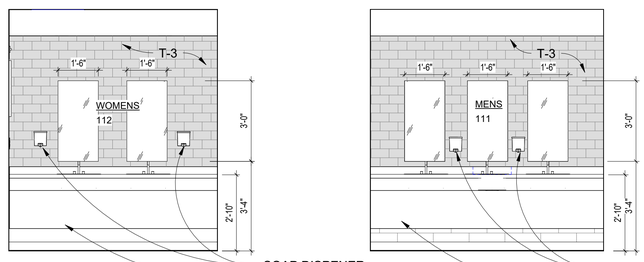
5 RESTROOM 107 - WEST
3/8" = 1'-0"



6 RESTROOM 107 - SOUTH
3/8" = 1'-0"

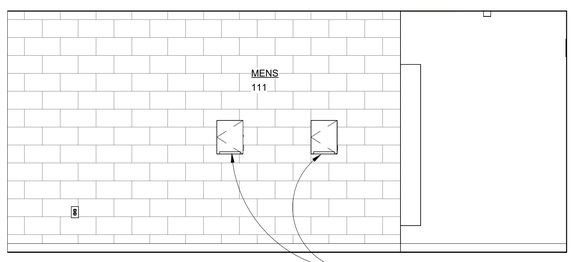


7 WOMEN'S LOCKER ROOM 112 SOUTH
3/8" = 1'-0"

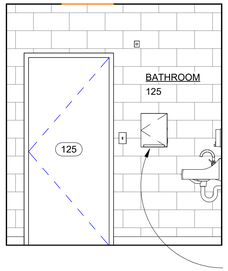


8 WOMEN'S LOCKER ROOM 112 WEST
3/8" = 1'-0"

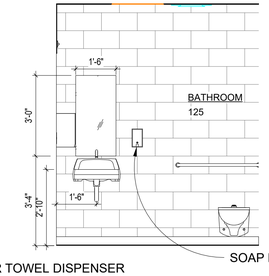
9 MEN'S LOCKER ROOM 111 - EAST
3/8" = 1'-0"



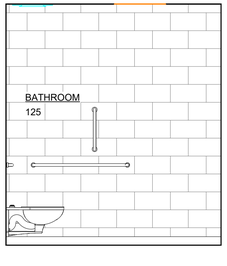
10 MENS LOCKER ROOM 111 - WEST
3/8" = 1'-0"



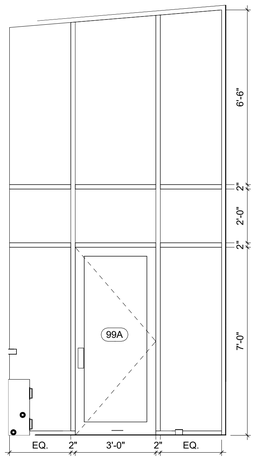
11 BATHROOM 125 - NORTH
3/8" = 1'-0"



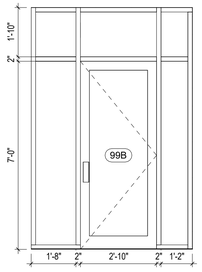
12 BATHROOM 125 - EAST
3/8" = 1'-0"



13 BATHROOM 125 - SOUTH
3/8" = 1'-0"



14 ENTRY VESTIBULE CURTAIN WALL - WEST
3/8" = 1'-0"



15 ADMIN STOREFRONT - SOUTH
3/8" = 1'-0"

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ASSEMBLY PLAN NO.

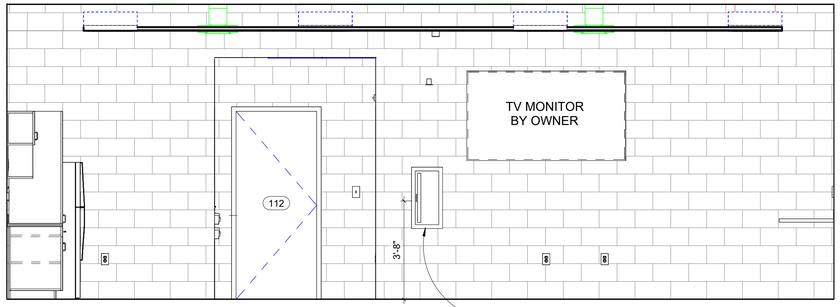
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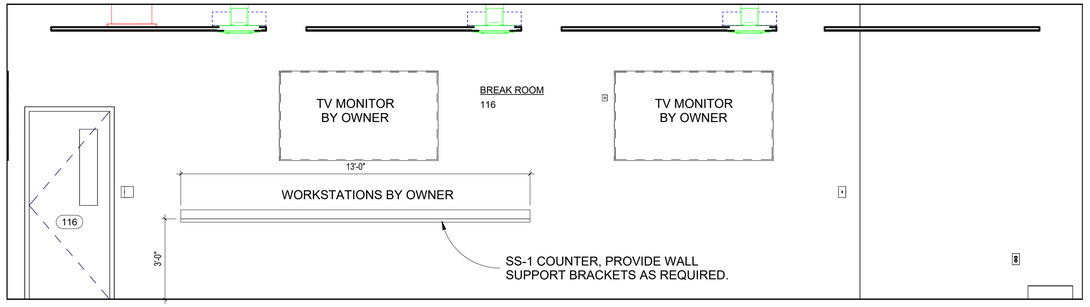
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INTERIOR ELEVATIONS

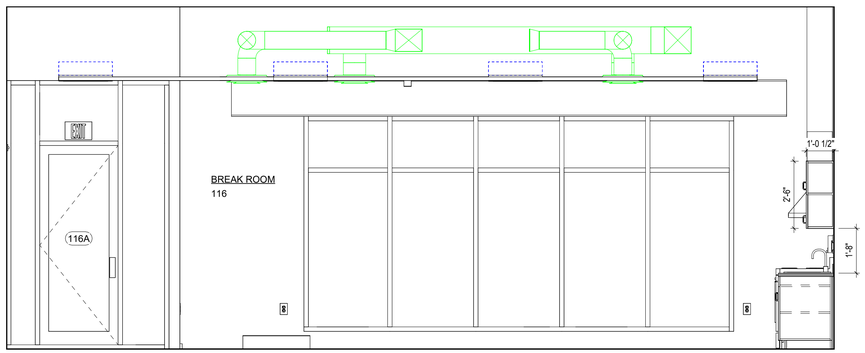
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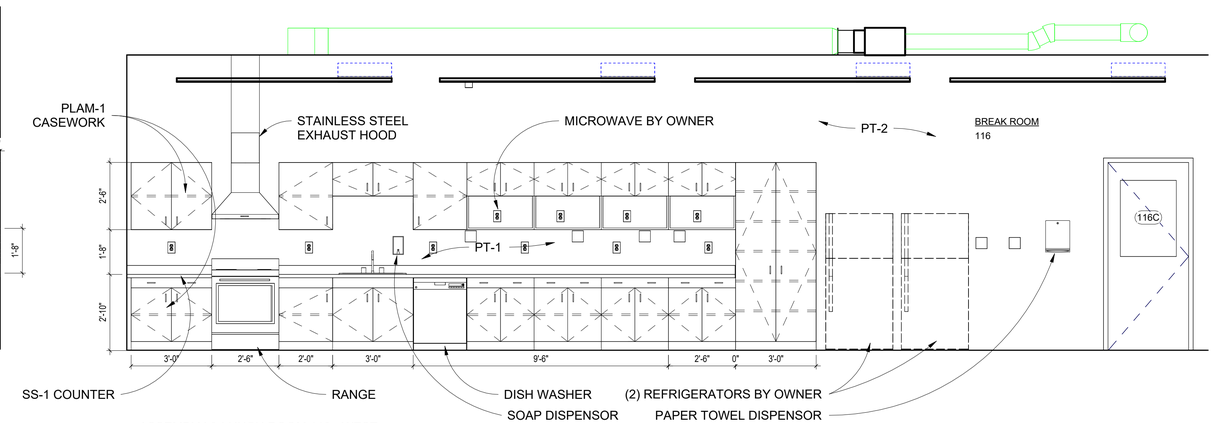
1 ASSEMBLY & LUNCH ROOM 116 - NORTH
3/8" = 1'-0"



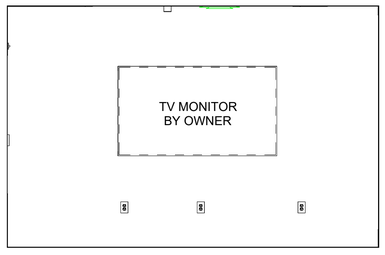
2 ASSEMBLY & LUNCH ROOM 116 - EAST
3/8" = 1'-0"



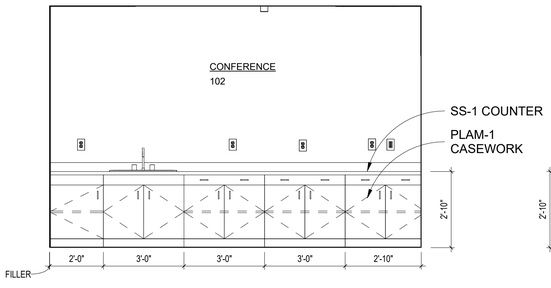
3 ASSEMBLY & LUNCH ROOM 116 - SOUTH
3/8" = 1'-0"



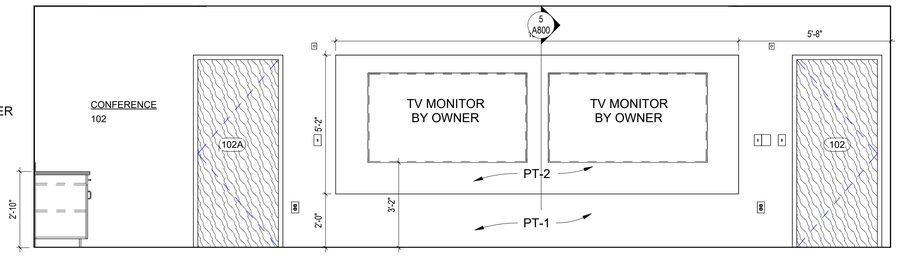
4 ASSEMBLY & LUNCH ROOM 116 - WEST
3/8" = 1'-0"



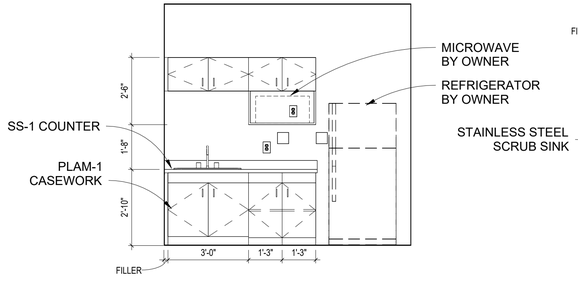
5 CONFERENCE 102 - NORTH
3/8" = 1'-0"



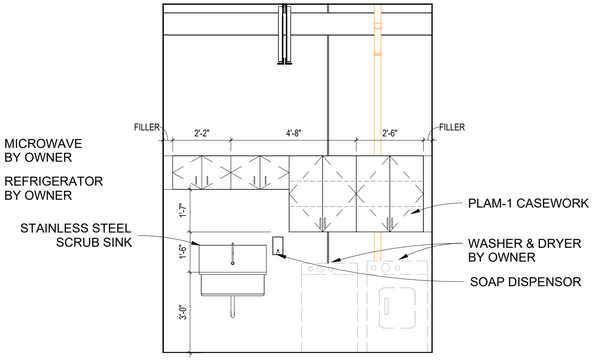
6 CONFERENCE 102 - SOUTH
3/8" = 1'-0"



7 CONFERENCE 102 - WEST
3/8" = 1'-0"



8 KITCHENETTE 104A - WEST
3/8" = 1'-0"



9 LAUNDRY 113 - WEST
3/8" = 1'-0"

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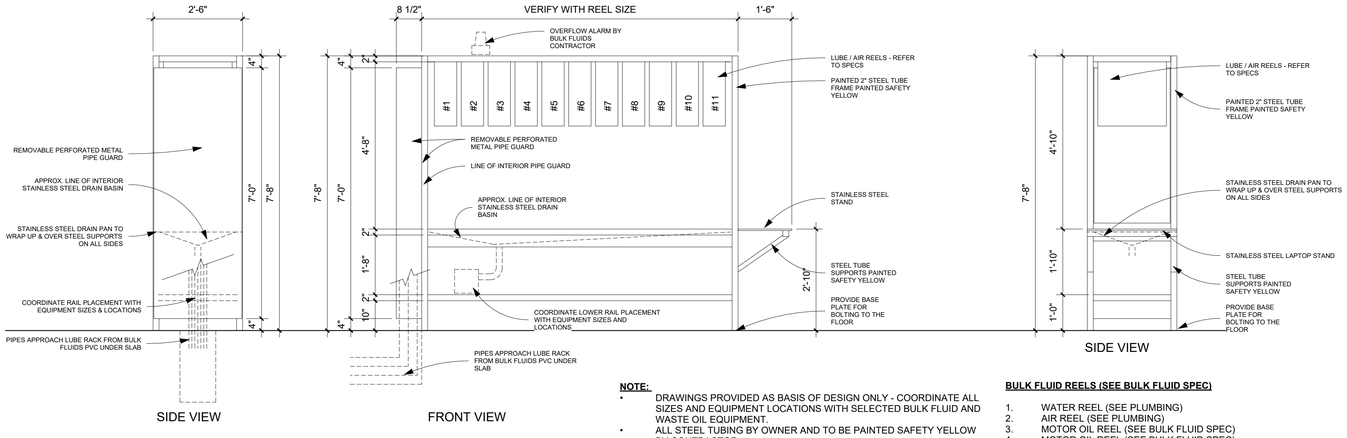
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DATE
06.22.2026

SHEET TITLE
INTERIOR ELEVATIONS

SHEET
A701



NOTE:

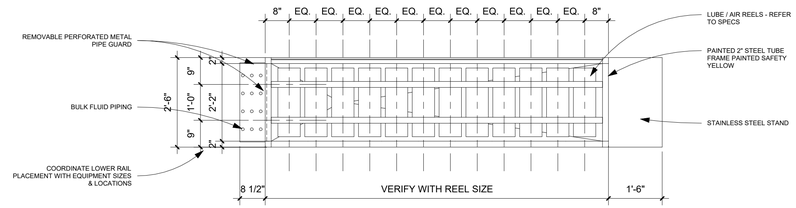
- DRAWINGS PROVIDED AS BASIS OF DESIGN ONLY - COORDINATE ALL SIZES AND EQUIPMENT LOCATIONS WITH SELECTED BULK FLUID AND WASTE OIL EQUIPMENT.
- ALL STEEL TUBING BY OWNER AND TO BE PAINTED SAFETY YELLOW BY CONTRACTOR.

BULK FLUID REELS (SEE BULK FLUID SPEC)

1. WATER REEL (SEE PLUMBING)
2. AIR REEL (SEE PLUMBING)
3. MOTOR OIL REEL (SEE BULK FLUID SPEC)
4. MOTOR OIL REEL (SEE BULK FLUID SPEC)
5. MOTOR OIL REEL (SEE BULK FLUID SPEC)
6. MOTOR OIL REEL (SEE BULK FLUID SPEC)
7. MOTOR OIL REEL (SEE BULK FLUID SPEC)
8. HYDRAULIC FLUID REEL (SEE BULK FLUID SPEC)
9. ANTI FREEZE REEL (SEE BULK FLUID SPEC)
10. AUTOMATIC TRANSMISSION FLUID REEL (SEE BULK FLUID SPEC)
11. FUTURE REEL SPOT

UTILITY CENTER

1. WATER REEL (SEE PLUMBING)
2. AIR REEL (SEE PLUMBING)
3. AIR REEL (SEE PLUMBING)
4. 120V REEL (SEE ELECTRICAL)
5. 220V REEL (SEE ELECTRICAL)



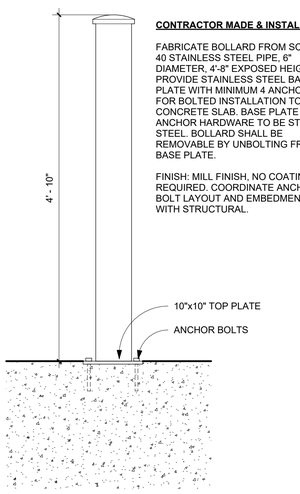
PLAN VIEW

1 LUBE RACK
1/2" = 1'-0"

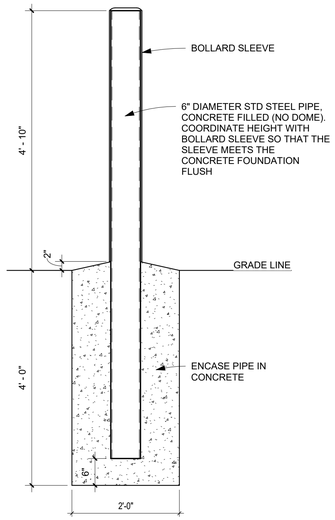
CONTRACTOR MADE & INSTALLED

FABRICATE BOLLARD FROM SCHEDULE 40 STAINLESS STEEL PIPE, 6" DIAMETER, 4'-8" EXPOSED HEIGHT. PROVIDE STAINLESS STEEL BASE PLATE WITH MINIMUM 4 ANCHOR BOLTS FOR BOLTED INSTALLATION TO CONCRETE SLAB. BASE PLATE AND ANCHOR HARDWARE TO BE STAINLESS STEEL. BOLLARD SHALL BE REMOVABLE BY UNBOLTING FROM BASE PLATE.

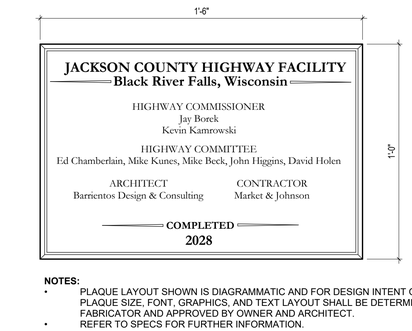
FINISH: MILL FINISH, NO COATING REQUIRED. COORDINATE ANCHOR BOLT LAYOUT AND EMBEDMENT DEPTH WITH STRUCTURAL.



2 REMOVABLE BOLLARD
1" = 1'-0"



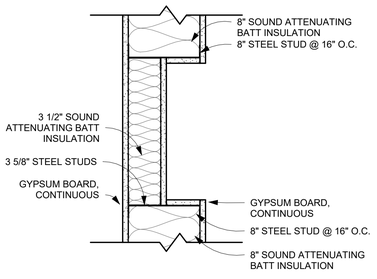
3 BOLLARD DETAIL
3/4" = 1'-0"



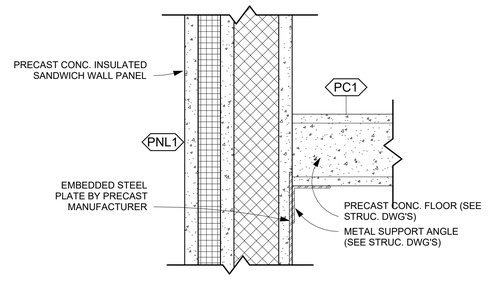
NOTES:

- PLAQUE LAYOUT SHOWN IS DIAGRAMMATIC AND FOR DESIGN INTENT ONLY. FINAL PLAQUE SIZE, FONT, GRAPHICS, AND TEXT LAYOUT SHALL BE DETERMINED BY FABRICATOR AND APPROVED BY OWNER AND ARCHITECT.
- REFER TO SPECS FOR FURTHER INFORMATION.

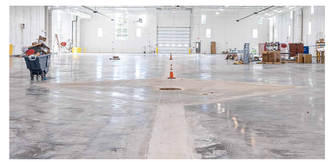
4 ARCHITECTURAL PLAQUE
3" = 1'-0"

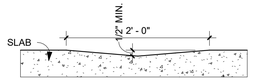


5 WALL NICHE
1 1/2" = 1'-0"



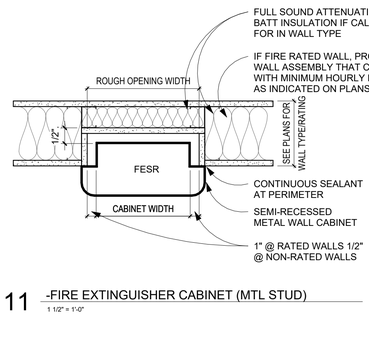
6 PC FLOOR TO PC WALL
1 1/2" = 1'-0"



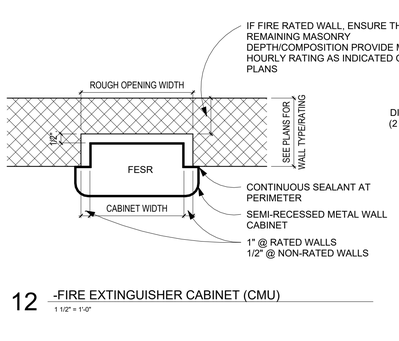


DRAINAGE TRACK DEEPENS TOWARDS FLOOR DRAIN. SLOPE TOWARDS CATCH BASIN DRAIN.

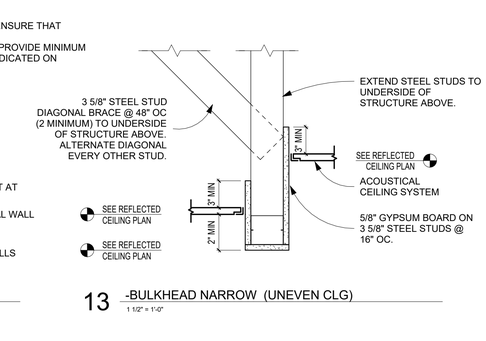
10 FLOOR DRAINAGE TRACK
1" = 1'-0"



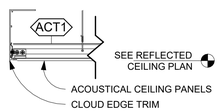
11 -FIRE EXTINGUISHER CABINET (MTL STUD)
1 1/2" = 1'-0"



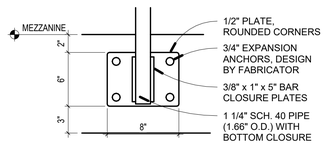
12 -FIRE EXTINGUISHER CABINET (CMU)
1 1/2" = 1'-0"



7 CHANGE IN FLOORING WITH METAL DIVIDER STRIP
1 1/2" = 1'-0"

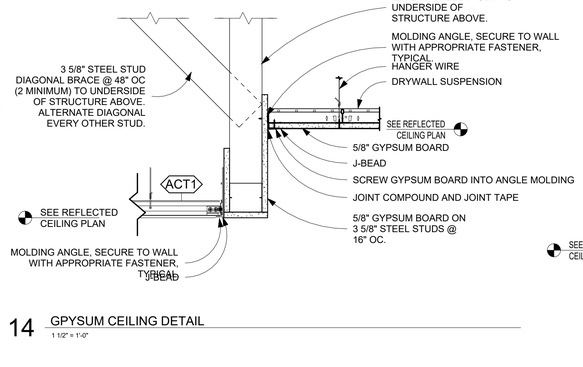


8 EDGE OF CLOUD DETAIL
1 1/2" = 1'-0"

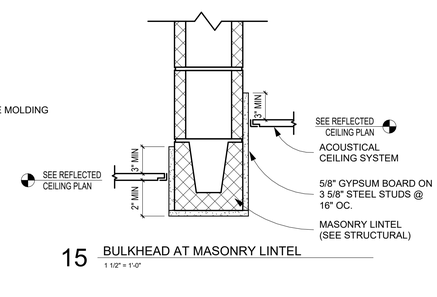


9 MEZZANINE RAILING BASE PLATE
1 1/2" = 1'-0"

13 -BULKHEAD NARROW (UNEVEN CLG)
1 1/2" = 1'-0"



14 GPYSUM CEILING DETAIL
1 1/2" = 1'-0"



15 BULKHEAD AT MASONRY LINTEL
1 1/2" = 1'-0"

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REVISIONS

DATE	DESCRIPTION

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BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
INTERIOR DETAILS

SHEET
A800

STRUCTURAL NOTES

GENERAL REQUIREMENTS
THESE NOTES SUPPLEMENT THE SPECIFICATIONS, WHICH SHALL BE REFERENCED FOR ADDITIONAL REQUIREMENTS.

DEFINITIONS OF TERMINOLOGY AS USED IN THESE GENERAL NOTES:
- "DRAWINGS" MEANS THE LATEST STRUCTURAL DESIGN DRAWINGS.
- "SPECIFICATIONS" MEANS THE LATEST PROJECT SPECIFICATIONS, UNLESS NOTED OTHERWISE ON DRAWINGS.
- "CONTRACT DOCUMENTS" IS DEFINED AS THE DESIGN DRAWINGS AND THE PROJECT SPECIFICATIONS.
- "SER" IS DEFINED AS THE STRUCTURAL ENGINEER OF RECORD FOR THE STRUCTURE IN ITS FINAL CONDITION.
- "DESIGN PROFESSIONALS" IS DEFINED AS THE OWNER'S ARCHITECT AND SER.
- "MEP" IS DEFINED AS MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION.
- "CONTRACTOR" IS DEFINED TO INCLUDE ANY OF THE FOLLOWING: GENERAL CONTRACTOR AND THEIR SUBCONTRACTORS, CONSTRUCTION MANAGER AND THEIR SUBCONTRACTORS, STRUCTURAL STEEL FABRICATOR OR STRUCTURAL STEEL ERECTOR, ETC.
- "BASE BUILDING STRUCTURE" IS DEFINED AS THE STRUCTURAL FRAMING AND/OR LOAD-BEARING WALLS DESIGNED BY AYRES.
- "STRUCTURE IN ITS FINAL CONDITION" MEANS ALL STRUCTURAL ELEMENTS SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS ARE INSTALLED AND COMPLETELY CONNECTED AND INSPECTED WITH NO OUTSTANDING NON-COMPLIANCE ISSUES.
- "DELEGATED DESIGN" MEANS A SCOPE OF WORK THAT MEETS PERFORMANCE CRITERIA ESTABLISHED IN THE CONTRACT DOCUMENTS AND IS TO BE COMPLETED BY THE CONTRACTOR'S LICENSED ENGINEER.
- "SERVICE LEVEL" LOADS ARE DEFINED AS NOMINAL OR UNFACTORED LOADS TO BE COMBINED USING ALLOWABLE STRESS LOAD COMBINATIONS.
- "STRENGTH LEVEL" LOADS ARE DEFINED AS FACTORED LOADS TO BE COMBINED USING STRENGTH DESIGN LOAD COMBINATIONS.
- "GOVERNING EDITION" REFERS TO THE MOST RECENT CODE PUBLICATION AS ADOPTED BY THE AUTHORITIES HAVING JURISDICTION.

THESE NOTES ARE PROVIDED FOR TYPICAL CONDITIONS. SEE PLANS AND DETAILS FOR SPECIFIC REQUIREMENTS IN OTHER AREAS.

THE USE OF A SCALE TO OBTAIN DIMENSIONS NOT CALLED OUT ON THE DRAWINGS IS NOT PERMITTED.

STRUCTURAL ELEMENTS ARE CENTERED ON GRID LINES AND GRID LINE INTERSECTIONS UNLESS DIMENSIONED OR NOTED OTHERWISE.

WHERE DETAILS ARE CALLED OUT AT A CERTAIN LOCATION OF THE STRUCTURE, THEY SHALL BE DUPLICATED AT SIMILAR LOCATIONS OF THE STRUCTURE UNLESS SHOWN OTHERWISE.

IN NO CASE SHALL STRUCTURAL REPAIRS, CORRECTIONS, ALTERATIONS, OR OTHER WORK AFFECTING A STRUCTURAL MEMBER BE MADE, UNLESS APPROVED BY THE SER.

ENGINEERING SERVICES RELATED TO SUBSTITUTIONS OR CHANGES PROPOSED BY THE CONTRACTOR OR TRADE SUBCONTRACTORS WILL BE COMPLETED AT THE CONTRACTOR'S EXPENSE.

THE STRUCTURE SHOWN IN THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETE FORM. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION.

THE CONTRACTOR SHALL CROSS-CHECK STRUCTURAL PLANS WITH ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION PLANS (INCLUDING PLANS FROM OTHER BID PACKAGES IF APPLICABLE), FOR DETAILS, DIMENSIONS, ELEVATIONS, OPENINGS, INSERTS, BRICK LEDGES, RECESSES, DEPRESSIONS, ETC. THAT MAY APPLY TO STRUCTURAL WORK. NOTIFY ARCHITECT/SER OF ANY DISCREPANCIES BEFORE PROCEEDING. CONTRACTOR SHALL BID THE MOST EXPENSIVE VARIATION CALLED OUT.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING STRUCTURAL WORK AFFECTED BY OTHER TRADES (E.G. MECHANICAL, ELECTRICAL, PLUMBING). OPENINGS, PENETRATIONS, FRAMING, BRACING, AND CONNECTIONS RELATED TO OTHER TRADES AND SHOWN ON THE DRAWINGS IS FOR BIDDING PURPOSES ONLY. CONTRACTOR'S REVIEW OF SHOP DRAWINGS WILL BE TAKEN TO INDICATE THAT THIS COORDINATION HAS BEEN COMPLETED.

THE SER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, DESIGN CALCULATIONS, ETC. DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INFORM THE SER IN WRITING OF ANY SPECIFIC DEVIATIONS TO THE CONTRACT DOCUMENTS AND OBTAIN THE SER'S WRITTEN APPROVAL BEFORE PROCEEDING.

MECHANICAL AND ELECTRICAL EQUIPMENT WEIGHTS SHOWN ON THE DRAWINGS ARE THE MAXIMUM OPERATING WEIGHTS (INCLUDING CURBS, HANGERS, AND OTHER ACCESSORIES). VERIFY DIMENSIONS AND WEIGHTS SHOWN ON THE DRAWINGS WITH SELECTED MANUFACTURER PRIOR TO ORDERING MATERIALS AND SUBMITTING SHOP DRAWINGS. NOTIFY THE SER WHEN THE ACTUAL TOTAL WEIGHT EXCEEDS THE WEIGHT SHOWN ON THE DRAWINGS.

CONNECTIONS OF MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS (SUCH AS EQUIPMENT, DUCTWORK, PIPES, CONDUITS, ETC.) TO THE STRUCTURE SHALL BE PROVIDED BY THE SUPPLIER, UNLESS OTHERWISE SHOWN ON THE DRAWINGS. THESE CONNECTIONS SHALL BE DESIGNED BY THE SUPPLIER'S DELEGATED DESIGNER. SEE DELEGATED DESIGN COMPONENTS FOR MORE REQUIREMENTS.

DISTRIBUTE THE MAXIMUM LOAD HUNG FROM ANY STRUCTURAL MEMBER FOR DUCTWORK, PIPING ETC OVER THE MEMBER'S TRIBUTARY AREA IN A WAY THAT THE MEP DESIGN SUPERIMPOSED DEAD LOADS LISTED IN CONTRACT DOCUMENTS ARE NOT EXCEEDED. THE CONTRACTOR SHALL COORDINATE THE LOADS OF ALL TRADES AND PROVIDE ADDITIONAL SUPPORT OR DISTRIBUTION FRAMING AS REQUIRED TO ACHIEVE THE ALLOWABLE LOAD DISTRIBUTION.

UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, THE STRUCTURE HAS BEEN DESIGNED WITH A 4 PSF LOAD ALLOWANCE FOR MISCELLANEOUS MECHANICAL, ELECTRICAL, AND PLUMBING APPURTENANCES. THE CONTRACTOR SHALL COORDINATE ALL MISCELLANEOUS LOADS WITH ALL TRADES TO ENSURE THE LOAD ALLOWANCE IS NOT EXCEEDED.

UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, THE STRUCTURE HAS BEEN DESIGNED WITH A 3 PSF LOAD ALLOWANCE FOR THE SPRINKLER SYSTEM. THE CONTRACTOR SHALL COORDINATE THE WEIGHT AND LOCATION OF THE SPRINKLER SYSTEM COMPONENTS TO ENSURE THE LOAD ALLOWANCE IS NOT EXCEEDED.

NON-STRUCTURAL ELEMENTS:
1. NON-STRUCTURAL ELEMENTS, SUCH AS NON-BEARING PARTITIONS, ATTACHED TO AND/OR SUPPORTED BY THE STRUCTURE SHALL TAKE INTO ACCOUNT DEFLECTIONS AND OTHER STRUCTURAL MOVEMENTS
2. FIRE PROTECTION FOR ALL STRUCTURAL COMPONENTS SHALL BE PROVIDED AND SHALL MEET MINIMUM CODE REQUIREMENTS FOR THE TYPE OF CONSTRUCTION SPECIFIED ON THE ARCHITECTURAL PLANS.
3. PARTITION FRAMING SHALL BE CONNECTED TO THE PRIMARY STRUCTURE IN SUCH A WAY SO AS TO ALLOW FOR VERTICAL LIVE LOAD DEFLECTIONS OF THE FLOOR OR ROOF FRAMING. DO NOT MAKE RIGID VERTICAL AND HORIZONTAL CONNECTIONS TO THE PRIMARY STRUCTURE IN THE PLANE OF THE PARTITION. SEE ARCHITECTURAL DRAWINGS FOR INTERIOR PARTITIONS.

FOUNDATIONS AND EARTHWORK
REFERENCE THE PROJECT'S GEOTECHNICAL EXPLORATION REPORT ((NO. 00952545) PREPARED BY PROFESSIONAL SERVICE INDUSTRIES ON DECEMBER 04, 2025 FOR ADDITIONAL INFORMATION RELATED TO THE ANTICIPATED SOIL CONDITIONS AT THIS SITE.

FOUNDATIONS ARE ASSUMED TO BE SUPPORTED ON UNDISTURBED NATIVE MATERIAL OR PROPERLY COMPACTED STRUCTURAL FILL. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED BY A LICENSED GEOTECHNICAL ENGINEER (PER THE SPECIAL INSPECTION REQUIREMENTS) TO VERIFY SUITABLE SOIL MATERIAL AND CONDITIONS PRIOR TO PLACEMENT OF STRUCTURAL FILL AND/OR FOOTINGS. SUITABLE SOIL MUST MEET THE REQUIRED SOIL PROPERTIES LISTED UNDER THE "STRUCTURAL DESIGN CRITERIA" SECTION.

CONTRACTOR SHALL PREPARE SITE AND SOIL BELOW FOUNDATIONS AND SLABS-ON-GRADE IN ACCORDANCE WITH THE GEOTECHNICAL EXPLORATION REPORT.

NOTIFY THE SER IF UNSUITABLE SOILS ARE ENCOUNTERED AT FOUNDATION BEARING ELEVATIONS.

WATER SHALL NOT BE PERMITTED TO ACCUMULATE IN FOOTING EXCAVATIONS.

PROVIDE A MINIMUM OF 6 INCHES OF GRANULAR FILL BELOW ALL INTERIOR SLABS-ON-GRADE IN ACCORDANCE WITH THE GEOTECHNICAL EXPLORATION REPORT.

FOOTINGS, PIERS, AND FOUNDATION WALLS SHALL BE CENTERED UNDER THE WALLS AND COLUMNS BEING SUPPORTED, UNLESS NOTED OTHERWISE ON DRAWINGS.

PROVIDE FROST AND MOISTURE PROTECTION FOR FOOTINGS EXPOSED DURING CONSTRUCTION. FOOTINGS SHALL NOT BE PLACED ON FROZEN MATERIAL.

SLAB AND FOUNDATION WALL UNDERDRAIN AND WATERPROOF SYSTEMS SHALL BE DETAILED AND CONSTRUCTED AS INDICATED IN THE ARCHITECTURAL SPECIFICATIONS AND/OR DRAWINGS AND GEOTECHNICAL REPORT.

FOUNDATION WALLS MAY BE BACKFILLED PRIOR TO THE SLAB-ON-GRADE CONSTRUCTION. BACKFILL SHALL BE PLACED EVENLY ALONG THE LENGTH OF THE BUILDING UP TO THE SPECIFIED GRADE. USE ONLY HAND-OPERATED TOOLS FOR COMPACTION ADJACENT TO FOUNDATION WALLS AND GRADE BEAMS.

REINFORCING STEEL
ALL REINFORCING STEEL SHALL CONFORM WITH THE GOVERNING EDITIONS OF ACI 315 (GUIDE TO PRESENTING REINFORCING STEEL DESIGN DETAILS), ACI SP-066 (ACI DETAILING MANUAL), ACI 318, AND CRSI MANUAL OF STANDARD PRACTICE.

YIELD STRENGTH AND GRADE OF REINFORCING STEEL SHALL BE AS INDICATED UNDER THE APPLICABLE MATERIAL PROPERTIES TABLE.

THE NUMBER OF BARS REQUIRED BY NOTES (AND SCHEDULES, IF PROVIDED) CONTROLS OVER THE NUMBER OF BARS SHOWN ON DETAILS.

PROVIDE BENT BARS AT ALL WALL CORNERS AND INTERSECTIONS. BENT BARS SHALL BE THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS DETAILED FOR THE WALL.

PROVIDE DOWELS TO MATCH ALL VERTICAL REINFORCING STEEL IN CONCRETE PIERS, WALLS, FOOTINGS, AND OTHER REINFORCED CONCRETE MEMBERS. LAP DOWELS WITH VERTICAL REINFORCING STEEL OR DEVELOP BARS INTO CONCRETE WITH STRAIGHT OR HOOKED DEVELOPMENT LENGTH AS REQUIRED BY ACI.

WALL REINFORCING STEEL SHALL BE CONTINUOUS THROUGH PIERS AND COLUMNS, UNLESS NOTED OTHERWISE ON DRAWINGS.

PROVIDE EPOXY COATED REINFORCEMENT AND ACCESSORIES IN AREAS OF DIRECT EXPOSURE TO THE ENVIRONMENT, CHEMICALS, OR DE-ICING, INCLUDING AREAS SPECIFICALLY INDICATED ON THE DRAWINGS.

THE USE OF POST-INSTALLED (MECHANICAL AND ADHESIVE) ANCHORS IN LIEU OF CAST-IN-PLACE REINFORCING STEEL DOWELS SHALL BE AVOIDED IF POSSIBLE. USE OF POST-INSTALLED ANCHORS SHALL BE VERIFIED BY THE SER UNLESS NOTED OTHERWISE ON DRAWINGS.

WELDING OF REINFORCING IS NOT PERMITTED UNLESS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER.

REINFORCING STEEL (CONT)
FURNISH ALL ACCESSORIES: CHAIRS, SPACER BARS, AND SUPPORTS NECESSARY TO SECURE REINFORCING AT POSITIONS SHOWN ON THE PLANS. ALL REINFORCEMENT TO BE HELD SECURELY IN PROPER POSITION IN ACCORDANCE WITH THE MOST RECENTLY ADOPTED VERSION OF ACI 318. SET ANCHOR RODS WITH POSITIONING TEMPLATES AND BRACE AGAINST DISPLACEMENT.

REINFORCING SUPPORT COMING INTO CONTACT WITH FORMS SHALL BE CRSI CLASS 1 PLASTIC PROTECTED OR CLASS 2 STAINLESS STEEL PROTECTED AND SHALL BE LOCATED IN ACCORDANCE WITH CRSI-MSP AND PLACED IN ACCORDANCE WITH CRSI-PRB. PLASTIC COATING ON LEGS SHALL EXTEND AT LEAST 1/2" UPWARD FROM THE FORM SURFACE.

PRECAST CONCRETE BLOCKS WITH EMBEDDED TIE WIRES (WIRE DOBIES) AS SPECIFIED BY CRSI 1 MSP MAY BE USED FOR FOOTINGS AND SLABS ON GRADE. DO NOT USE BRICK, BROKEN CONCRETE MASONRY UNITS (CMU) SPALLS, ROCKS, CONSTRUCTION DEBRIS, OR SIMILAR MATERIAL FOR SUPPORTING REINFORCING STEEL. PRECAST CONCRETE BLOCKS SHALL HAVE SAME OR HIGHER COMPRESSIVE STRENGTH AS SPECIFIED FOR CONCRETE IN WHICH THEY ARE LOCATED.

WELDED WIRE FABRIC IN SLABS-ON-GRADE SHALL BE SUPPLIED IN PANEL FORM. ROLLED WELDED WIRE FABRIC SHALL NOT BE ALLOWED.

LAP WELDED WIRE FABRIC TWO PANEL SPACINGS AT SIDE AND END SPLICES, UNLESS NOTED OTHERWISE ON DRAWINGS.

PROVIDE ADDITIONAL REINFORCING STEEL AT ALL RE-ENTRANT (INSIDE) CORNERS OF SLABS-ON-GRADE. ADDITIONAL REINFORCING STEEL SHALL BE TWO (2) #5 X 3'-0 DIAGONAL BARS.

CAST-IN-PLACE CONCRETE
ALL CONCRETE WORK SHALL CONFORM WITH THE GOVERNING EDITIONS OF ACI 318 (BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE), AND ACI 301 (SPECIFICATIONS FOR STRUCTURAL CONCRETE). REINFORCEMENT DETAILING, FABRICATION, AND ERECTION SHALL CONFORM WITH THE GOVERNING EDITIONS OF ACI 315 (GUIDE TO PRESENTING REINFORCING STEEL DESIGN DETAILS), ACI SP-066 (ACI DETAILING MANUAL), ACI 318, AND CRSI MANUAL OF STANDARD PRACTICE.

ALL CONCRETE SHALL INCLUDE REINFORCEMENT. IF REINFORCEMENT IS NOT SPECIFICALLY INDICATED ON THE DRAWINGS VERIFY WITH THE SER.

COMPRESSIVE STRENGTH OF CONCRETE SHALL BE AS INDICATED UNDER THE APPLICABLE MATERIAL PROPERTIES TABLE.

CONCRETE CLEAR COVER OVER REINFORCING STEEL SHALL BE AS INDICATED IN THE 'CAST-IN-PLACE CONCRETE CLEAR COVER' TABLE.

ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4-INCH BY 3/4-INCH CHAMFER.

HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED IN FOOTINGS, PILE CAPS, MAT FOUNDATIONS, GRADE BEAMS, BEAMS, UPTURNED BEAMS, SLABS, AND WALLS WITHOUT PRIOR WRITTEN APPROVAL FROM THE SER BEFORE CONSTRUCTION.

PROVIDE CONTROL OR CONSTRUCTION JOINTS IN CONCRETE SLABS-ON-GRADE AS INDICATED ON THE SLAB PLANS.

SLAB-ON-GRADE CONTROL JOINTS SHALL CONSIST OF A SAWCUT OR A SLAB CONTRACTION JOINT DEVICE, UNLESS NOTED OTHERWISE ON DRAWINGS. SEE 'SOG CONTROL JOINT' DETAIL.

SLAB-ON-GRADE CONSTRUCTION JOINTS SHALL CONSIST OF A FORMED VERTICAL JOINT ALONG THE EDGE OF ADJACENT CONCRETE POURS. SEE 'SOG CONSTRUCTION JOINT' DETAIL.

PROVIDE ISOLATION JOINTS WHERE SLABS-ON-GRADE ABUT AGAINST WALLS, COLUMNS, OR OTHER VERTICAL SURFACES.

PROVIDE ISOLATION JOINTS AROUND EQUIPMENT PADS, DRAINS, MANHOLES, SUMPS, OR OTHER POINTS OF RESTRAINT.

PRECAST CONCRETE
STRUCTURAL PRECAST MEMBERS, CONNECTIONS BETWEEN STRUCTURAL PRECAST MEMBERS, AND CONNECTIONS TO THE STRUCTURE ARE DELEGATED DESIGN COMPONENTS. SUBMIT STRUCTURAL COMPUTATIONS AND SHOP DRAWINGS THAT ARE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER.

CAST INTO PRECAST UNITS ALL ANCHOR BOLTS, WELD PLATES, INSERTS, AND BEARING PLATES REQUIRED TO MAKE CONNECTIONS TO ALL OTHER STRUCTURAL MEMBERS AS INDICATED ON THE DRAWINGS.

PRECAST WALLS SHALL BE STRUCTURAL CONCRETE WALL PANELS (LOAD-BEARING AND SHEAR WALLS) DESIGNED FOR THE VERTICAL AND LATERAL LOADS INDICATED ON THE DRAWINGS. PRECAST WALLS SHALL BE ANCHORED TO THE FOUNDATION WALLS, FLOOR LEVELS, ROOF LEVELS, AND TO EACH OTHER. COORDINATE INSULATION AND FINISH REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.

PRECAST PLANKS SHALL BE PRESTRESSED HOLLOW-CORE SLABS. USE STANDARD WEIGHT PRECAST PLANK (IN LIEU OF ULTRALIGHT PRECAST PLANK), UNLESS NOTED OTHERWISE ON DRAWINGS. UPON INSTALLATION, PRECAST PLANK SHALL BE ESSENTIALLY PAST THE EFFECTS OF DEFORMATION DUE TO CREEP AND SHALL BE CAMBERED NOT MORE THAN L/360 OF THE SPAN.

MAXIMUM ALLOWABLE LIVE LOAD DEFLECTION OF PRECAST PLANKS SHALL BE LIMITED TO L/360.

PROVIDE CONCRETE TOPPING ON PRECAST PLANKS WHERE INDICATED. CONCRETE TOPPING SHALL BE CONSIDERED AS COMPOSITE WITH THE PLANK UNLESS NOTED OTHERWISE ON DRAWINGS. REINFORCE CONCRETE TOPPING WITH FLAT SHEETS OF 6X6-W1.4XW1.4 WELDED WIRE FABRIC OR AS OTHERWISE REQUIRED FOR DESIGN OF THE PLANKS AND TOPPING. FINISH CONCRETE TOPPING TO A LEVEL SURFACE WITH THE MINIMUM THICKNESS AT THE PLANK BEARING LOCATION EQUAL TO THAT CALLED OUT ON THE DRAWINGS. CONCRETE TOPPING MUST BE PLACED PRIOR TO INSTALLING PARTITION WALLS. CONSIDER LOSS OF SPECIFIED TOPPING THICKNESS DUE TO CAMBER IN DESIGN.

OPENINGS MEASURING 12 INCHES OR LARGER IN ANY DIRECTION SHALL BE BY THE PRECAST FABRICATOR. COORDINATE SIZES AND LOCATIONS WITH THE APPROPRIATE TRADE AND PROVIDE HEADERS AS REQUIRED. FORM OR CUT OPENINGS DURING PRECAST FABRICATION.

OPENINGS MEASURING SMALLER THAN 12 INCHES IN ANY DIRECTION SHALL BE BY THE CONTRACTOR. MARK PRESTRESSING STRAND LOCATIONS ON TOP OF PLANKS WITH PAINT AT LOCATIONS WHERE MECHANICAL, PLUMBING, AND ELECTRICAL TRADES WILL REQUIRE OPENINGS.

CONDUITS AND PIPES SHALL NOT BE PLACED IN THE CONCRETE TOPPING.

UNIT MASONRY
ALL UNIT MASONRY WORK SHALL CONFORM WITH THE GOVERNING EDITIONS OF NCMA TEK MANUAL, TMS 402/ACI 530 (BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES), AND TMS 602/ACI 530.1 (SPECIFICATIONS FOR MASONRY STRUCTURES).

CONCRETE MASONRY UNITS, MORTAR, GROUT, AND REINFORCING STEEL SHALL MEET THE MATERIAL REQUIREMENTS INDICATED UNDER THE APPLICABLE MATERIAL PROPERTIES TABLE.

ALL UNIT MASONRY, GROUTING, AND REINFORCING WORK SHALL BE PERFORMED BY MASONRY CRAFTWORKERS WHO HAVE SUCCESSFULLY COMPLETED THE INTERNATIONAL MASONRY INSTITUTE TRAINING COURSE FOR GROUTING AND REINFORCED MASONRY CONSTRUCTION. ALTERNATIVELY, THE CONTRACTOR SHALL ASSIGN SUPERVISION OF ALL GROUTING AND REINFORCING TO PERSONNEL WHO HAVE SUCCESSFULLY COMPLETED THE INTERNATIONAL MASONRY INSTITUTE TRAINING COURSE FOR GROUTING AND REINFORCED MASONRY CONSTRUCTION, OR EQUAL. THE SUPERVISOR RESPONSIBLE FOR THE PLACEMENT OF REINFORCED ASSEMBLIES WILL BE PRESENT AT THE TIME OF EACH GROUT POUR.

MASONRY CONSTRUCTION SHALL BE RUNNING BOND UNLESS NOTED OTHERWISE ON DRAWINGS.

PROVIDE FULL MORTAR BEDDING (FACE SHELL AND WEBS OF BED JOINTS) FOR ALL STARTER COURSES, SOLID UNITS, COLUMNS, PILASTERS, FIRST COURSE DIRECTLY ABOVE LINTELS, AND CORES TO BE GROUTED.

LOAD BEARING MASONRY WALLS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS, UNLESS NOTED OTHERWISE ON DRAWINGS:
1. PROVIDE VERTICAL REINFORCEMENT AS CALLED OUT IN SCHEDULE;
2. PROVIDE ADDT'L VERTICAL REINFORCEMENT AT CORNERS, ENDS, AND AT EACH SIDE OF CONTROL JOINTS - MATCH SIZE OF VERTICAL REINFORCEMENT;
3. PROVIDE ADDT'L VERTICAL REINFORCEMENT AT ALL JAMBS ADJACENT TO WALL OPENINGS (SEE LINTEL SCHEDULE);
4. JAMB REINFORCEMENT SHOULD EXTEND FOR FULL HEIGHT OF WALL;
5. PROVIDE VERTICAL DOWELS INTO FOUNDATIONS OR SLABS SUPPORTING MASONRY WALL FROM BELOW – MATCH SIZE AND SPACING OF VERTICAL REINFORCEMENT;
6. PROVIDE HORIZONTAL BED JOINT REINFORCEMENT AS CALLED OUT IN SCHEDULE;
7. PROVIDE HORIZONTAL REINFORCEMENT (BOND BEAMS) AS CALLED OUT IN SCHEDULE AND AT THE TOP OF MASONRY WALLS;
8. PROVIDE ADDT'L HORIZONTAL REINFORCEMENT AT SILL OF ALL OPENINGS;
9. PROVIDE LINTELS ABOVE ALL OPENINGS (SEE SCHEDULE).

LINTELS SHALL BE MASONRY, PRECAST, OR STRUCTURAL STEEL. MASONRY LINTELS SHALL BE COMPRISED OF U-SHAPED LINTEL BLOCK. REFER TO LINTEL SCHEDULE FOR DETAILS.

PROVIDE A MINIMUM COVER OVER REINFORCING STEEL AS MEASURED FROM THE NEAREST EXTERIOR MASONRY SURFACE TO THE EDGE OF REINFORCING STEEL. SECURE REINFORCING STEEL WITH BAR POSITIONERS, CHAIRS, AND TIES.

PROVIDE LAP SPLICES WHERE REQUIRED. SEE 'REBAR LAP AND PLACEMENT DETAIL' FOR REQUIRED LENGTHS.

GROUT CORES SOLID AT ALL BOND BEAMS, MASONRY LINTELS, JAMBS, PILASTERS, INSERTS, ANCHORS AND OTHER CONNECTIONS TO APPURTENANCES ATTACHED TO THE MASONRY (E.G. STAIRWAY CONNECTIONS), AND ALL OTHER CORES THAT CONTAIN REINFORCING STEEL.

FILL ALL VOIDS AND BLOCK CELLS SOLIDLY WITH ASTM C476 GROUT FOR A DISTANCE OF 24" BENEATH AND 16" EACH SIDE OF ALL BEAM REACTIONS OR OTHER CONCENTRATED LOADS UNLESS OTHERWISE NOTED.

GROUT SHALL BE PLACED IN LIFT HEIGHTS NOT EXCEEDING 4'-8" IF CLEANOUT ARE NOT PROVIDED, OR 12'-8" IF CLEANOUTS ARE PROVIDED. VERTICAL CORES SHALL BE ALIGNED AND UNOBSTRUCTED FOR GROUT PLACEMENT. ROD AND VIBRATE GROUT IN PLACE.

GROUTING SHALL BE STOPPED 2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR JOINT.

WHERE STEEL BEAMS BEAR ON MASONRY WITH BEARING PLATES, DO NOT MORTAR TIGHT TO UNDERSIDE OF BEAM. AT EXPOSED AREAS, CAULK UNDER BEAM. FOR STEEL BEAMS FRAMING PERPENDICULAR TO MASONRY WALL, GROUT AN AREA FOUR (4) CORES WIDE BY FOUR (4) COURSES DEEP, UNLESS NOTED OTHERWISE ON DRAWINGS. SEE "STRUCTURAL STEEL" NOTES FOR BEARING PLATE REQUIREMENTS.

PROVIDE CONTROL JOINTS AT LOCATIONS INDICATED ON THE DRAWINGS. HORIZONTAL BED JOINT REINFORCEMENT SHALL BE TERMINATED AT JOINTS. BOND BEAM REINFORCING AT FLOOR AND ROOF BEARING ELEVATIONS SHALL BE CONTINUOUS THROUGH JOINTS. ALL OTHER BOND BEAMS SHALL BE DISCONTINUOUS AT CONTROL JOINTS, UNLESS NOTED OTHERWISE ON DRAWINGS.

POST-INSTALLED ANCHORS AND REINFORCING STEEL
POST-INSTALLED ANCHORS CONSIST OF MECHANICAL EXPANSION, UNDERCUT, SCREW, OR ADHESIVE ANCHORS FASTENED TO HARDENED CONCRETE OR MASONRY.

POST-INSTALLED REINFORCING STEEL CONSISTS OF DEFORMED REINFORCING STEEL (REBAR) FASTENED TO HARDENED CONCRETE OR MASONRY VIA A PROPRIETARY ADHESIVE PRODUCT.

POST-INSTALLED ANCHORS AND REINFORCING STEEL (CONT)
POST-INSTALLED ADHESIVE ANCHORS SHALL ONLY BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT THE TIME OF ANCHOR INSTALLATION.

ALL POST-INSTALLED ANCHORS AND POST-INSTALLED REINFORCING STEEL SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS AND WITHIN MANUFACTURER'S RECOMMENDED TOLERANCES. THE WORK SHALL BE PERFORMED BY PERSONNEL TRAINED TO INSTALL THAT PARTICULAR POST-INSTALLED SYSTEM.

THE POST-INSTALLED ANCHOR SYSTEM SHALL BE AS CALLED OUT ON THE DRAWINGS. SUBSTITUTION REQUESTS FOR ALTERNATE ANCHOR SYSTEMS MUST BE APPROVED IN WRITING BY THE SER PRIOR TO USE. CONTRACTOR SHALL SUBMIT ALTERNATE ANCHOR SYSTEM DATA FOR SER REVIEW.

THE ADHESIVE PRODUCT USED TO FASTEN THE POST-INSTALLED REINFORCING STEEL SHALL BE AS CALLED OUT ON THE DRAWINGS. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE SER PRIOR TO USE. CONTRACTOR SHALL SUBMIT ALTERNATE PRODUCT DATA FOR SER REVIEW.

CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION. PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULTS FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS

POST-INSTALLED ANCHORS AND POST-INSTALLED REINFORCING STEEL SHALL NOT BE USED IN PLACE OF CAST-IN-PLACE ANCHORS/REBAR UNLESS SUBMITTED TO AND APPROVED BY SER.

STRUCTURAL STEEL
FABRICATION AND ERECTION OF STRUCTURAL STEEL MEMBERS SHALL CONFORM WITH THE GOVERNING EDITIONS OF AISC 360 (SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS), AISC 303 (CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES), AND AWS D1.1 (STRUCTURAL WELDING – STEEL).

ALL WELDING SHALL BE COMPLETED WITH E70 ELECTRODES, UNLESS NOTED OTHERWISE ON DRAWINGS. ALL WELDERS SHALL BE CERTIFIED BY AWS.

STRUCTURAL STEEL, BOLTS, AND ANCHORS SHALL MEET THE MATERIAL REQUIREMENTS INDICATED UNDER THE APPROPRIATE MATERIAL PROPERTIES TABLE.

STRUCTURAL STEEL CONNECTIONS ARE DESIGNED BY THE SER. CONTRACTOR SHALL REVIEW CONNECTIONS FOR COMPATIBILITY WITH DESIRED ERECTION SEQUENCING. ANY CHANGES OR SUBSTITUTIONS SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER AND SUBMITTED TO THE SER FOR REVIEW. CONTRACTOR-DESIGNED CONNECTIONS SHALL BE SUBMITTED WITH DESIGN CALCULATIONS AND BE SEALED BY A PROFESSIONAL ENGINEER EMPLOYED BY THE CONTRACTOR AND REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

FABRICATOR SHALL BE EXPERIENCED IN FABRICATION OF STRUCTURAL STEEL FOR PROJECTS OF SIMILAR SIZE AND COMPLEXITY. FABRICATORS SHOULD BE AISC CERTIFIED OR SPECIAL INSPECTION OF ALL SHOP CONNECTIONS AND WELDS SHALL BE PROVIDED.

WELDERS CERTIFICATES: CERTIFY WELDERS EMPLOYED ON THE WORK, VERIFYING AMERICAN WELDING SOCIETY QUALIFICATION WITHIN THE PREVIOUS 12 MONTHS.

ALL STRUCTURAL STEEL SHALL BE FINISHED ACCORDING TO THE SPECIFICATIONS, UNLESS NOTED OTHERWISE ON DRAWINGS. COORDINATE ALL FINISHES WITH ARCHITECT.

STRUCTURAL STEEL SURFACE AREAS INDICATED TO RECEIVE FIELD-WELDS, WELDED STUD ANCHORS, PRETENSIONED BOLTS, OR SLIP-CRITICAL BOLTS SHALL NOT RECEIVE PRIME PAINT UNTIL AFTER CONNECTION IS COMPLETED. MEMBERS ENCASED IN CONCRETE OR SPRAYED WITH FIREPROOFING SHALL NOT BE PAINTED.

FIELD PAINT ALL WELDS, ABRASIONS, RUST SPOTS AND FIELD BOLTS ON STRUCTURAL STEEL, JOISTS AND DECKING AFTER ERECTION.

ALL BOLT HOLES SHALL BE STANDARD SIZE HOLES OR SHORT SLOTTED HOLES ORIENTED WITH LENGTH NORMAL TO THE DIRECTION OF LOAD, UNLESS NOTED OTHERWISE ON DRAWINGS. ALL BOLTS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION (AS DEFINED BY AISC) EXCEPT THOSE NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO BE SLIP CRITICAL CONNECTIONS.

DO NOT USE OVERSIZED OR SLOTTED HOLES FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED IN WRITING BY THE SER.

MINIMUM SIZE OF FILLET WELDS SHALL BE PER AISC TABLE J2.4, BUT NOT LESS THAN 3/16", UNLESS NOTED OTHERWISE.

ANY WELD SIZES SHOWN ON THE DESIGN DRAWINGS ARE CONSIDERED EFFECTIVE WELD SIZES AND SHALL BE INCREASED IN ACCORDANCE WITH AWS AS REQUIRED BY GAPS OR SKEWS BETWEEN COMPONENTS.

THE TERMINOLOGY "CONTINUOUS" INDICATES QUANTITY. PROVIDE THE NECESSARY JOINT DETAILS TO ALLOW FOR BUILDING MOVEMENTS. COORDINATE WITH ARCHITECTURAL CONTROL AND EXPANSION JOINTS.

DETAILS DO NOT SHOW ERECTION AIDS. PROVIDE ERECTION AIDS AS

STRUCTURAL NOTES (CONT)

DELEGATED DESIGN COMPONENTS

THE FOLLOWING PORTIONS OF THE STRUCTURAL DESIGN WILL NOT BE SUBMITTED AT THE TIME OF PERMIT APPLICATION. WHEN RECEIVED AND REVIEWED, THESE DELEGATED DESIGN COMPONENTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL BY THE CONTRACTOR PRIOR TO INSTALLATION:

1. EXCAVATION SHORING (IF REQ'D.);
2. PRECAST CONCRETE WALL PANELS, ROOF/FLOOR PLANKS;
3. STEEL JOISTS AND BRIDGING;
4. STAIRS, LANDINGS, HANDRAILS;
5. CONNECTIONS OF MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER COMPONENTS TO THE STRUCTURE THAT ARE NOT SHOWN ON THE DRAWINGS.
6. PRE-ENGINEERED METAL BUILDINGS
7. COLD-FORMED STEEL FRAMING

FOR ALL DELEGATED DESIGN, INCLUDE DESIGN CALCULATIONS AND DRAWINGS SIGNED AND SEALED BY AN ENGINEER LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED. PROVIDE DEFERRED SUBMITTALS, AFTER CONTRACTOR'S REVIEW, TO ARCHITECT AND SER TO REVIEW FOR GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS. AFTER ARCHITECT'S AND SER'S REVIEW, SUBMIT TO BUILDING OFFICIAL FOR REVIEW AND APPROVAL. DO NOT INSTALL DEFERRED SUBMITTAL ITEMS UNTIL SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND APPROVED BY THE BUILDING OFFICIAL.

ALL SHOP DRAWINGS FOR DELEGATED DESIGN COMPONENTS THAT REQUIRE ENGINEERING BY THE CONTRACTOR SHALL BE SEALED BY THE CONTRACTOR'S ENGINEER PRIOR TO SUBMITTAL. ALTERNATIVELY, CONTRACTOR MAY PROVIDE A LETTER WITH THE SHOP DRAWING SUBMITTAL, WRITTEN, SIGNED, AND SEALED BY THE CONTRACTOR'S ENGINEER, INDICATING THAT THE SHOP DRAWING IS IN CONFORMANCE WITH THE DELEGATED DESIGN CALCULATIONS.

THE ENGINEER RESPONSIBLE FOR COMPLETING THE DELEGATED DESIGN SHALL ENSURE CONFORMANCE WITH THE LOADS, CRITERIA, AND DESIGN INTENT PROVIDED ON THE DRAWINGS AND WITH ALL APPLICABLE CODE REQUIREMENTS. ANY CHANGES TO THE DESIGN INTENT SHALL BE APPROVED BY THE SER.

SHOP DRAWING SUBMITTALS

DESIGN DRAWINGS SHALL NOT BE USED AS SHOP DRAWINGS.

CONTRACTOR SHALL ALLOW 10 WORKING DAYS IN SCHEDULE FOR SER TO REVIEW SHOP DRAWINGS. IF SHOP DRAWINGS REQUIRE AN EXPEDITED REVIEW PROCESS, CONTACT SER PRIOR TO SUBMITTING THE SHOP DRAWINGS TO MAKE APPROPRIATE ARRANGEMENTS.

STRUCTURAL AND ARCHITECTURAL DRAWINGS SHOW DIMENSIONS AND ELEVATIONS TO SIGNIFICANT WORKING POINTS. SHOP DRAWING DETAILERS AND SUPPLIERS ARE RESPONSIBLE FOR THE DETERMINATION OF ALL DIMENTIONS, PITCHES, ELEVATIONS, ETC, BEYOND THOSE NECESSARY TO THOROUGHLY DETAIL AND FABRICATE THE WORK. NOTIFY ARCHITECT/SER OF ANY DISCREPANCIES BEFORE PROCEEDING.

THE CONTRACTOR IS TO REVIEW EACH SUBMITTAL PRIOR TO FORWARDING TO DESIGN PROFESSIONALS. THE CONTRACTOR IS TO STAMP EACH SUBMITTAL VERIFYING THAT THE FOLLOWING IS ADDRESSED:

1. THE SHOP DRAWING IS REQUESTED.
2. THE SHOP DRAWING IS BASED ON THE LATEST DESIGN.
3. ITEMS REQUIRING FIELD-VERIFICATION HAVE BEEN ADDRESSED.
4. THE DESIGN PROFESSIONALS' COMMENTS FROM ANY PREVIOUS SUBMITTALS ARE ADDRESSED.
5. THE WORK IS COORDINATED AMONG ALL CONSTRUCTION TRADES.
6. REVISIONS FROM PREVIOUS SUBMITTALS ARE CLEARLY MARKED BY CIRCLING OR CLOUDS.
7. SUBMITTAL IS COMPLETE.
8. SUBMITTAL DOES NOT INCLUDE SUBSTITUTION REQUEST.
9. SUBMITTAL SHALL INCLUDE A STAMP INDICATING PROJECT NAME AND LOCATION, SUBMITTAL NUMBER, SPECIFICATION SECTION NUMBER.

THE SER SHALL RETURN, WITHOUT COMMENT, SUBMITTALS WHICH THE CONTRACTOR HAS NOT STAMPED OR WHICH DO NOT MEET THE ABOVE REQUIREMENTS.

THE SER'S REVIEW OF SUBMITTALS SHALL BE FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT. NO WORK SHALL BE STARTED WITHOUT SUCH REVIEW.

SUBMIT DETAILED SHOP DRAWINGS FOR:

1. CAST-IN-PLACE CONCRETE REINFORCING STEEL;
2. CAST-IN-PLACE CONCRETE MIX DESIGNS
3. PRECAST CONCRETE;
4. CONCRETE MASONRY SHOP DRAWINGS SHOWING LENGTHS, SIZES, BEDDING DETAILS, LOCATIONS OF REINFORCING STEEL, WALL ELEVATIONS, AND SETTING DIAGRAMS FOR EMBEDDED ITEMS;
5. STRUCTURAL STEEL;
6. STEEL JOISTS;
7. STEEL DECK;
8. COLD-FORMED STEEL
9. COORDINATION SHOP DRAWINGS SHOWING SIZE, LOCATION, AND ASSOCIATED TRADE OF ALL OPENINGS FOR EACH BUILDING LEVEL. INCLUDE ALL OPENING REQUIREMENTS FOR ALL TRADES AND INDICATE THE ITEM PASSING THROUGH EACH OPENING.
10. STAIRS, LANDING, HANDRAILS;
11. CONNECTIONS OF MECHANICAL, ELECTRICAL, PLUMBING, ETC. TO THE STRUCTURE.
12. PRE-ENGINEERED METAL BUILDINGS

SPECIAL INSPECTIONS

IN ACCORDANCE WITH STATE BUILDING CODE, THE OWNER IS REQUIRED TO EMPLOY ONE OR MORE SPECIAL INSPECTORS TO COMPLETE THE TESTING AND INSPECTIONS IDENTIFIED IN THIS SECTION AND WITHIN IBC 1705.

THE SPECIAL INSPECTORS SHALL MEET THE QUALIFICATION REQUIREMENTS OF IBC 1704.2.

THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL SPECIAL INSPECTIONS AND TESTS AND SHALL SUBMIT CORRESPONDING REPORTS TO THE OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND THE BUILDING OFFICIAL IN ACCORDANCE WITH IBC 1704.2.

THE CONTRACTOR SHALL COORDINATE WITH THE SPECIAL INSPECTOR IN ORDER TO ENSURE THAT THE SPECIAL INSPECTION AS INDICATED BELOW CAN BE PERFORMED WITH MINIMAL IMPACT TO THE PROJECT SCHEDULE. THE WORK FOR WHICH THE SPECIAL INSPECTION IS REQUIRED SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL COMPLETION OF THE INSPECTION OR TEST.

SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING TYPES OF WORK. REFER TO CHAPTER 17 OF THE BUILDING CODE FOR ADDITIONAL INFORMATION.

1. SOILS: SEE TABLE 1705.6
2. CONCRETE CONSTRUCTION: SEE TABLE 1705.3
3. STEEL CONSTRUCTION
   - A. STRUCTURAL STEEL: SEE IBC 1705.2.1 AND AISC 360 CHAPTER N
   - B. COLD-FORMED STEEL DECK: SEE SDI QA/QC
   - C. OPEN-WEB STEEL JOISTS AND JOIST GIRDERS: SEE TABLE 1705.2.3
4. MASONRY CONSTRUCTION: SEE TMS 602-16, TABLES 3 AND 4 FOR LEVEL 2 QUALITY ASSURANCE

SPECIAL INSPECTIONS TABLES

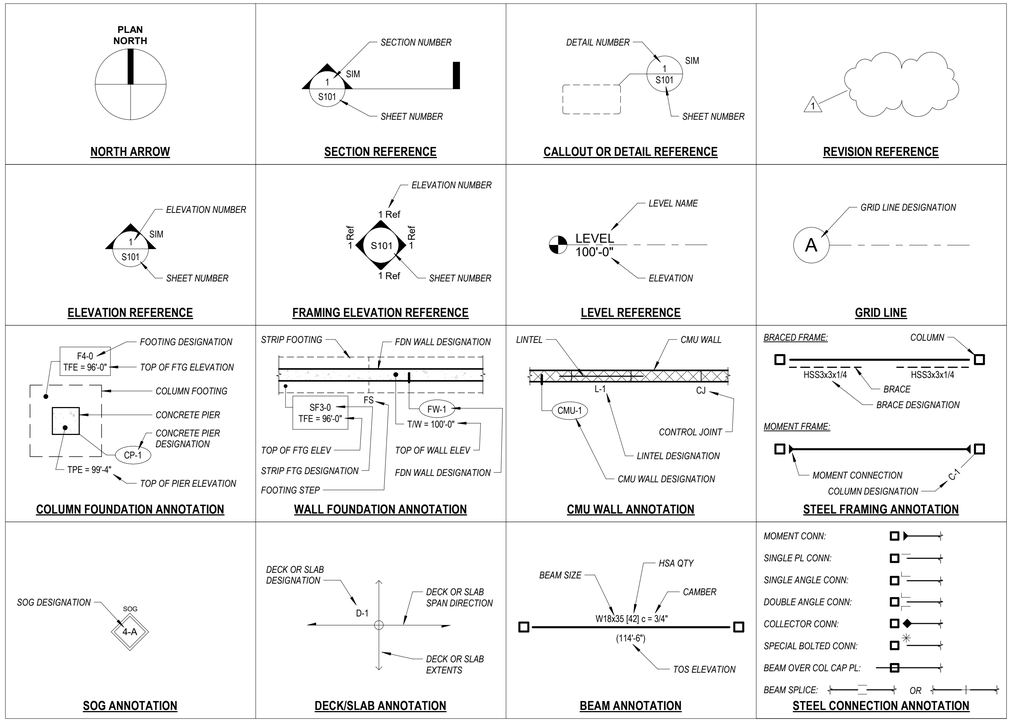
REQUIRED SPECIAL INSPECTION AND TESTS - SOILS (2021 IBC TABLE 1705.6)

NO	TYPE	FREQUENCY	
		CONTINUOUS	PERIODIC
(1)	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	---	X
(2)	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X
(3)	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	---	X
(4)	DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING...	X	---
(5)	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X

REQUIRED SPECIAL INSPECTIONS - OPEN-WEB STEEL JOISTS AND JOIST GIRDERS (2021 IBC TABLE 1705.2.3)

NO	TYPE	FREQUENCY		REFERENCED STANDARD
		CONTINUOUS	PERIODIC	
(1)	INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS.			
	a. END CONNECTIONS - WELDING OR BOLTED	---	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1
	b. BRIDGING - HORIZONTAL OR DIAGONAL	---	---	---
	1. STANDARD BRIDGING	---	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1
	2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1	---	X	---

STRUCTURAL DRAWING SYMBOLS



SPECIAL INSPECTIONS TABLES (CONT)

REQUIRED SPECIAL INSPECTION AND TESTS - CONCRETE CONSTRUCTION (2021 IBC TABLE 1705.3)

NO	TYPE	FREQUENCY		REFERENCE	
		CONTINUOUS	PERIODIC	STANDARD	IBC
(1)	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	---	X	ACI 318: CH. 20, 25.2-3, 26.6.1-26.6.3	---
(2)	REINFORCING BAR WELDING:				
	a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	---	X	AWS D1.4: ACI 318: 26.6.4	---
	b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND	---	X		---
	c. INSPECT ALL OTHER WELDS.	X	---		---
(3)	INSPECT ANCHORS CAST IN CONCRETE.	---	X	ACI 318: 17.8.2	---
(4)	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:	SEE POST-INSTALLED ANCHOR NOTES			
	a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY...	X	---	ACI 318: 17.8.2.4	---
	b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN (4)a.	---	X	ACI 318: 17.8.2	---
(5)	VERIFY USE OF REQUIRED DESIGN MIX.	---	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1-2
(6)	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---	ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	---
(7)	INSPECT CONCRETE AND ~~SHOTCRETE PLACEMENT~~ FOR PROPER APPLICATION TECHNIQUES.	X	---	ACI 318: 26.5	---
(8)	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	---	X	ACI 318: 26.5.3-26.5.5	---
(9)	INSPECT PRESTRESSED CONCRETE FOR:				
	a. APPLICATION OF PRESTRESSING FORCES; AND	X	---	ACI 318: 26.10	---
	b. GROUTING OF BONDED PRESTRESSING TENDONS	X	---		
(10)	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	---	X	ACI 318: 26.9	---
(11)	FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEORY C, D, E, OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR:			ACI 318: 26.13.1.3	---
	a. INSTALLATION OF THE EMBEDDED PARTS	X	---	ACI 550.5	
	b. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS.	X	---		
	c. COMPLETION OF CONNECTIONS IN THE FIELD	X	---		
(12)	INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5.	---	X	ACI 318: 26.13.1.3	---
(13)	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	---	X	ACI 318: 26.11.2	---
(14)	INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF CONCRETE MEMBER BEING FORMED.	---	X	ACI 318: 26.11.1.2(b)	---

POST-INSTALLED ANCHOR NOTES:

A. MECHANICAL ANCHORS: CONTINUOUS SPECIAL INSPECTION IS REQUIRED DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, HOLE DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR SPACING, EDGE DISTANCES, CONCRETE THICKNESS, ANCHOR EMBEDMENT AND TIGHTENING TORQUE.

B. ADHESIVE ANCHORS: PERIODIC SPECIAL INSPECTION IS REQUIRED. THE SPECIAL INSPECTOR MUST BE ON THE JOBSITE DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, HOLE DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR SPACING, EDGE DISTANCES, CONCRETE THICKNESS, ANCHOR EMBEDMENT AND TIGHTENING TORQUE. THE SPECIAL INSPECTOR MUST VERIFY THE INITIAL INSTALLATIONS OF EACH TYPE AND SIZE OF ADHESIVE ANCHOR BY CONSTRUCTION PERSONNEL ON SITE. SUBSEQUENT INSTALLATIONS OF THE SAME ANCHOR TYPE AND SIZE BY THE SAME CONSTRUCTION PERSONNEL MUST BE PERMITTED TO BE PERFORMED IN THE ABSENCE OF THE SPECIAL INSPECTOR. ANY CHANGE IN THE ANCHOR PRODUCT BEING INSTALLED OR THE PERSONNEL PERFORMING THE INSTALLATION MUST REQUIRE AN INITIAL INSPECTION. FOR ONGOING INSTALLATIONS OVER AN EXTENDED PERIOD, THE SPECIAL INSPECTOR MUST MAKE REGULAR INSPECTIONS TO CONFIRM CORRECT HANDLING AND INSTALLATIONS OF THE PRODUCT.

MATERIAL PROPERTIES

REINFORCED CONCRETE MATERIALS

CONCRETE ELEMENT	ASTM/TYPE	Fy (KSI)	Fu (KSI)	F'c (PSI)	w/c RATIO	AIR CONTENT	MAX AGG SIZE	COMMENTS
REINFORCING STEEL	A615, GR. 60	60	90	---	---	---	---	DEFORMED BARS
REINFORCING STEEL	A775, GR. 60	60	90	---	---	---	---	EPOXY-COATED DEFORMED BARS
WELDED WIRE FABRIC	A1064	65	75	---	---	---	---	SUPPLY IN FLAT PANELS
FOOTINGS	---	---	---	4500	0.45	1-3%	3/4"	---
FDN WALLS	---	---	---	4500	0.45	1-3%	3/4"	---
SLAB-ON-GRADE (INT)	---	---	---	4500	0.45	1-3%	3/4"	---
SLAB-ON-GRADE (EXT)	---	---	---	4500	0.45	5-8%	3/4"	---
FDN WALLS (BRINE SHED)	---	---	---	5000	0.40	5-8%	3/4"	---
SLAB-ON-GRADE (BRINE SHED)	---	---	---	5000	0.40	5-8%	3/4"	---
PRECAST PLANK	---	---	---	---	---	---	---	BY DELEGATED DESIGNER
PRECAST WALL PANELS	---	---	---	---	---	---	---	BY DELEGATED DESIGNER

CONCRETE MATERIAL PROPERTIES NOTES:

1. F'c IS THE MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS.
2. FLY ASH MAY BE USED TO CONSTITUTE UP TO 30% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL.

UNIT MASONRY MATERIALS

UNIT MASONRY ELEMENT	ASTM/TYPE	STRENGTH	COMMENTS
UNIT MASONRY WALL ASSEMBLY	---	f'm = 2500 PSI	---
MASONRY UNITS	ASTM C90	f'cmu = 3250 PSI	---
MORTAR	ASTM C270	---	TYPE S
GROUT	ASTM C476	f'g ≥ 2500 PSI	---
REINFORCING STEEL	A615, GR. 60	fy = 60 KSI	---

STRUCTURAL STEEL MATERIALS

STEEL ELEMENT	ASTM/TYPE	Fy (KSI)	Fu (KSI)	COMMENTS
ANCHOR RODS	F1554	36	58	GRADE 36, HEAVY HEX HEADED, UNO.
HS BOLTS	A325	---	120	1/2" ≤ DIA ≤ 1"
NUTS	A563	---	---	---
WASHERS	F436	---	---	---
WASHERS (ANCHORS)	A572	50	---	GRADE 50
HAS	A108	---	65	TYPE B
WELD ELECTRODES	E70	---	---	---
W SHAPES	A992	50	65	---
HSS (RECT) SHAPES	A500	50	62	GRADE C
C & L SHAPES	A36	36	58	---
PLATES	A36	36	58	---

STEEL DECK MATERIALS PROPERTIES

DECK TYPE	DEPTH (IN)	GAGE	Fy (KSI)	USAGE	I POS (IN^4/FT)	I NEG (IN^4/FT)	S POS (IN^3/FT)	S NEG (IN^3/FT)	EXT BRG (IN)	INT BRG (IN)	COMMENTS
1.5B-36	1.5	22	50	ROOF	0.155	0.178	0.169	0.179	3	5	
1.5B-36	1.5	19	50	ROOF	0.239	0.257	0.266	0.278	3	5	
3NL-32	3.0	22	50	ROOF	0.643	0.715	0.345	0.372	3	5	
3NL-32	3.0	19	50	ROOF	0.965	1.052	0.554	0.579	3	5	

STRUCTURAL ABBREVIATIONS

SYMBOLS

@	AT
#	POUND
&	AND

A

AB	ANCHOR BOLT
ADDT'L	ADDITIONAL
ALT	ALTERNATE, ALTERNATIVE
ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONST.
AITC	AMERICAN INSTITUTE OF TIMBER CONST.
AISI	AMERICAN IRON AND STEEL INSTITUTE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
AWS	AMERICAN WELDING SOCIETY
AWC	AMERICAN WOOD COUNCIL
AWPA	AMERICAN WOOD PROTECTION ASSOC.
ANCH	ANCHOR, ANCHORAGE
ANSI	AMERICAN NATL. STANDARDS INSTITUTE
APPROX	APPROXIMATE
ARCH	ARCHITECT, ARCHITECTURAL
ASTM	ASTM INTERNATIONAL

B

BF	BACK FACE
BP	BASE PLATE
BSMT	BASEMENT
BM	BEAM
BRG	BEARING
BRP	BEARING PLATE
BTWN	BETWEEN
BB	BOND BEAM
BOT	BOTTOM
BO. B/	BOTTOM OF
BFE	BOTTOM OF FOOTING ELEVATION
BLDG	BUILDING

C

CANT	CANTILEVER
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL, C/L	CENTERLINE
CLR	CLEAR
CFS	COLD-FORMED STEEL
COL	COLUMN
COMP	COMPOSITE
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CRSI	CONCRETE REINFORCING INSTITUTE

D

DL	DEAD LOAD
DEFL	DEFLECTION
DEG, °	DEGREES
DET, DTL	DETAIL
DIAG	DIAGONAL
DIA	DIAMETER
DIM	DIMENSION
DBL	DOUBLE
DWL	DOWEL(S)
DN	DOWN
DWG	DRAWING

E

EA	EACH
EF	EACH FACE
EW	EACH WAY
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
EL	ELEVATION
ELEV	ELEVATOR
ENGR	ENGINEER
EOR	ENGINEER OF RECORD
EQ	EQUAL
EQUIP	EQUIPMENT
ERECT	ERECTION
EXIST, (E)	EXISTING
EXP	EXPANSION
EXT	EXTERIOR

F

FS	FAR SIDE
FL, FLR	FLOOR
FD	FLOOR DRAIN
FF	FRONT FACE
FT	FOOT, FEET
FTG	FOOTING
FDN/FND	FOUNDATION

G

GA	GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLULAM	GLUED-LAMINATED TIMBER
GB	GRADE BEAM

H

HE	HEADED
HDR	HEADER
HT	HEIGHT
HS	HIGH STRENGTH
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL SECTION
HK	HOOK
HORIZ	HORIZONTAL

I

IN	INCH, INCHES
INFO	INFORMATION
ID	INSIDE DIAMETER
IF	INSIDE FACE
INT	INTERIOR
IBC	INTERNATIONAL BUILDING CODE
IEBC	INTERNATIONAL EXISTING BUILDING CODE
IRC	INTERNATIONAL RESIDENTIAL CODE

J

JT, JNT	JOINT
JST	JOIST
JBE	JOIST BEARING ELEVATION
JSD	JOIST SEAT DEPTH

K

K	KIP
K/FT, KLF	KIPS PER (LINEAL) FOOT
K/SF, KSF	KIPS PER SQUARE FOOT

L

L	ANGLE (STEEL SHAPE)
LVL	LAMINATED VENEER LUMBER
LG	LENGTH, LONG
LWT	LIGHTWEIGHT
LL	LIVE LOAD
LOC	LOCATE, LOCATION
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSL	LONG SLOT
LONGIT	LONGITUDINAL
LB	POUND

M

MFR	MANUFACTURER
MCJ	MASONRY CONTROL JOINT
MO	MASONRY OPENING
MAX	MAXIMUM
MECH	MECHANICAL
MTL	METAL
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS

N

NCMA	NATL. CONCRETE MASONRY ASSOC.
NDS	NATL. DESIGN SPEC. FOR WOOD CONST.
NS	NEAR SIDE
NOM	NOMINAL
NWT	NORMAL WEIGHT
NTS	NOT TO SCALE
NO	NUMBER

O

OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMIN.
OC	ON CENTER
OPNG	OPENING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE

P

PSL	PARALLEL STRAND LUMBER
PEMB	PRE-ENGINEERED METAL BUILDING
PERP	PERPENDICULAR
PL	PLATE
PVC	POLYVINYL CHLORIDE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PC	PRECAST, PRESTRESSED CONCRETE
PT	PRESSURE TREATED

R

REF	REFERENCE
REINF	REINFORCEMENT
RD	ROOF DRAIN
REQ'D	REQUIRED
RO	ROUGH OPENING

S

SECT	SECTION
SHT	SHEET
SSL	SHORT SLOT
SIM	SIMILAR
SOG	SLAB-ON-GRADE
SPA	SPACE, SPACES
SPEC	SPECIFICATION(S)
SQ	SQUARE
STD	STANDARD
SER	STRUCTURAL ENGINEER OF RECORD
STL	STEEL
SDI	STEEL DECK INSTITUTE
SJI	STEEL JOIST INSTITUTE
STIFF	STIFFENER
STRUCT	STRUCTURAL
SYM	SYMMETRIC, SYMMETRICAL

T

T/, TO	TOP OF
T/L	TOP OF LEDGE
TEMP	TEMPORARY
THK	THICK, THICKNESS
T & B	TOP AND BOTTOM
TBE	TOP OF BEAM ELEVATION
TDE	TOP OF DECK ELEVATION
TFE	TOP OF FOOTING ELEVATION
TMS	THE MASONRY SOCIETY
TOSL	TOP OF SLAB
TOS	TOP OF STEEL
TWE, T/W	TOP OF WALL ELEVATION
TRANSV	TRANSVERSE
TYP	TYPICAL

U

UNO	UNLESS NOTED OTHERWISE

V

VIF	VERIFY IN FIELD
VERT	VERTICAL

W

W/	WITH
W/O	WITHOUT
WWF	WELDED WIRE FABRIC
WT	WEIGHT
W, w	WIDTH
WRI	WIRE REINFORCEMENT INSTITUTE
WSP	WOOD STRUCTURAL PANELS
WP	WORKING POINT

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DATE	DESCRIPTION

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SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
STRUCTURAL NOTES

SHEET
S002

STRUCTURAL DESIGN CRITERIA - MAIN BUILDING

CODES AND STANDARDS
- WISCONSIN COMMERCIAL BUILDING CODE, SPS 362 (LATEST EDITION);
- IBC 2021;
- OTHER CODES AS INDICATED IN THE STRUCTURAL NOTES.

DESIGN LOADS
RISK CATEGORY 'II'

EXPOSURE CATEGORY 'C'

DEAD LOAD (DL)
- SUPERIMPOSED ROOF DL - AREAS A, B, & C — 16 PSF (INCL METAL DECK, INSULATION, ROOFING MEMBRANE); 6 PSF (FOR WIND UPLIFT RESISTANCE)
- SUPERIMPOSED ROOF DL - AREA A TRUCK WASH — 20 PSF (INCL INSULATION, ROOFING MEMBRANE); 6 PSF (FOR WIND UPLIFT RESISTANCE)
- SUPERIMPOSED ROOF DL - AREA D — 26 PSF (INCL METAL DECK, INSULATION, ROOFING MEMBRANE); 9 PSF (FOR WIND UPLIFT RESISTANCE)
- CEILING DL ALLOWANCE - AREA D — 4 PSF
- MEP ALLOWANCE — 7 PSF (3 PSF SPRINKLERS + 4 PSF ALL ELSE)
- HVAC UNITS — SEE FRAMING PLANS FOR WEIGHT OF INDIVIDUAL HVAC UNITS
- SUPERIMPOSED FLOOR DL - SEE PLAN FOR LOCATIONS — 38 PSF (INCL 3" CONCRETE TOPPING SLAB)
- SUPERIMPOSED FLOOR DL - PC HOLLOW-CORE UNDERSIDE — 5 PSF (INCL CEILINGS)

NOTE: 8" PC PLANK SELF WEIGHT ASSUMED 63 PSF, 10" PC PLANK SELF WEIGHT ASSUMED 76 PSF, 12" PC PLANK SELF WEIGHT ASSUMED 86 PSF

LIVE LOAD (LL)
- ROOF LL (DISTRIBUTED) — 20 PSF
- ROOF LL (CONCENTRATED) — 300 LBS
- ROOF LL (CONCENTRATED) — 2000 LBS (JOIST BOTTOM CHORD AT PANEL POINTS)
- FLOOR LL - AREA A & C — 100 PSF (STAIRS)
- FLOOR LL - AREA C MEZZANINES — 250 PSF (HEAVY STORAGE)
- FLOOR LL - AREA A TRUCK WASH — 60 PSF (ELEVATED PLATFORM)
- FLOOR LL - AREA A, B, & C — HS-20 VEHICLE (GARAGE)

SNOW LOAD (SL)
- DESIGN ROOF SL (p_f) — 35 PSF + DRIFT
- DESIGN ROOF SL (p_f) - EXTERIOR CANOPY — 42 PSF + DRIFT
- GROUND SL (p_g) — 50 PSF
- IMPORTANCE FACTOR (I_s) — 1.00
- EXPOSURE FACTOR (C_e) — 1.00
- THERMAL FACTOR (C_t) — 1.00
- THERMAL FACTOR (C_t) - EXTERIOR CANOPY — 1.20
- ROOF SLOPE FACTOR (C_s) — 1.00
- SNOW DRIFT — SEE DETAIL

RAIN LOAD (RL)
- RL - MAX AREA A&B — 15 PSF
- RL - MAX AREA B (SCUPPERS) — 32 PSF
- RL - MAX AREA C — 21 PSF
- RL - MAX AREA D — 15 PSF
- RAINFALL INTENSITY (i) (15-MINUTE) — 6.82 IN/HR

WIND LOAD (WL)
- MAIN WIND FORCE RESISTING SYSTEM (MWFRS) LOADS DETERMINED BY ASCE 7 *DIRECTIONAL PROCEDURE FOR ENCLOSED AND PARTIALLY ENCLOSED LOW-RISE BUILDINGS.*
- COMPONENTS AND CLADDING (C&C) LOADS DETERMINED BY ASCE 7 *COMPONENTS AND CLADDING ENVELOPE PROCEDURE FOR LOW-RISE BUILDINGS.*
- BASIC WIND SPEED (V) — 107 MPH
- BUILDING CLASSIFICATION — ENCLOSED
- DIRECTIONALITY FACTOR (K_d) — 0.85
- VEL. PRESSURE COEFFICIENT (K_h) — 1.01
- TOPOGRAPHIC FACTOR (K_{zt}) — 1.00
- VELOCITY PRESSURE (q_h) — 25.1 PSF
- MWFRS DESIGN WIND PRESSURES — (SEE COMPUTATIONS)
- C&C DESIGN WIND PRESSURES — (SEE TABLE)

C&C DESIGN WIND PRESSURE (PSF)

ZONE	EFFECTIVE AREA =	10 SF	20 SF	50 SF	100 SF
ZONE 1	(MIN)	-47	-44	-40	-37
	(MAX)	16	16	16	16
ZONE 2	(MIN)	-62	-58	-53	-49
	(MAX)	16	16	16	16
ZONE 3	(MIN)	-85	-77	-66	-58
	(MAX)	16	16	16	16
ZONE 2 (overhang)	(MIN)	--	--	--	--
	(MAX)	--	--	--	--
ZONE 3 (overhang)	(MIN)	--	--	--	--
	(MAX)	--	--	--	--
ZONE 4	(MIN)	-30	-28	-27	-26
	(MAX)	27	26	25	23
ZONE 5	(MIN)	-36	-34	-31	-28
	(MAX)	27	26	25	23

SEISMIC LOAD
- SITE CLASS — D
- IMPORTANCE FACTOR (I_s) — 1.00
- MAPPED RESPONSE (S_S) — 0.049 g
- MAPPED RESPONSE (S_1) — 0.036 g
- DESIGN RESPONSE (S_{DS}) — 0.052 g
- DESIGN RESPONSE (S_{D1}) — 0.058 g
- SEISMIC DESIGN CATEGORY — A
- ANALYSIS PROCEDURE — INDEX FORCE
- DESIGN BASE SHEAR — V = (0.01) x (STRUCTURE WEIGHT)

SPECIAL LOADS
- OVERHEAD CRANE LOADS AS INDICATED ON THE DRAWINGS.

LATERAL FORCE RESISTING SYSTEM (LFRS)
TYPICAL LFRS IS METAL ROOF DECK ACTING AS DIAPHRAGM BETWEEN PRECAST CONCRETE SHEAR WALLS ON STRIP FOOTINGS.
TRUCK WASH LFRS IS PRECAST PLANK DECK ACTING AS DIAPHRAGM BETWEEN PRECAST CONCRETE SHEAR WALLS ON STRIP FOOTINGS.
AREA D LFRS IS A METAL ROOF DECK ACTING AS DIAPHRAGM BETWEEN CMU SHEAR AND PRECAST CONCRETE SHEAR WALLS ON STRIP FOOTINGS.

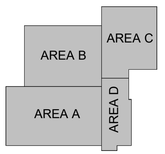
GEOTECHNICAL DESIGN CRITERIA
- ALLOWABLE SOIL BEARING PRESSURE — 3000 PSF
- FROST DEPTH — 48 IN
- MODULUS OF SUBGRADE REACTION — 200 PCI

SNOW DRIFT LOADING SCHEDULE

DRIFT	DRIFT SURCHARGE LOAD (PSF)	DRIFT LENGTH (FT)	COMMENT
A	17	7	
B	33	7	
C	21	8	
D	23	9	
E	27	11	
F	34	13	
G	35	14	
H	27	VARIES	UNIFORM
I	90	18	
J	105	20	

VEHICLE COLD STORAGE

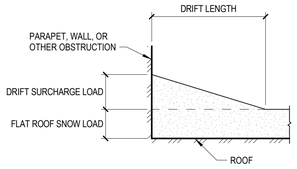
EQUIPMENT COLD STORAGE



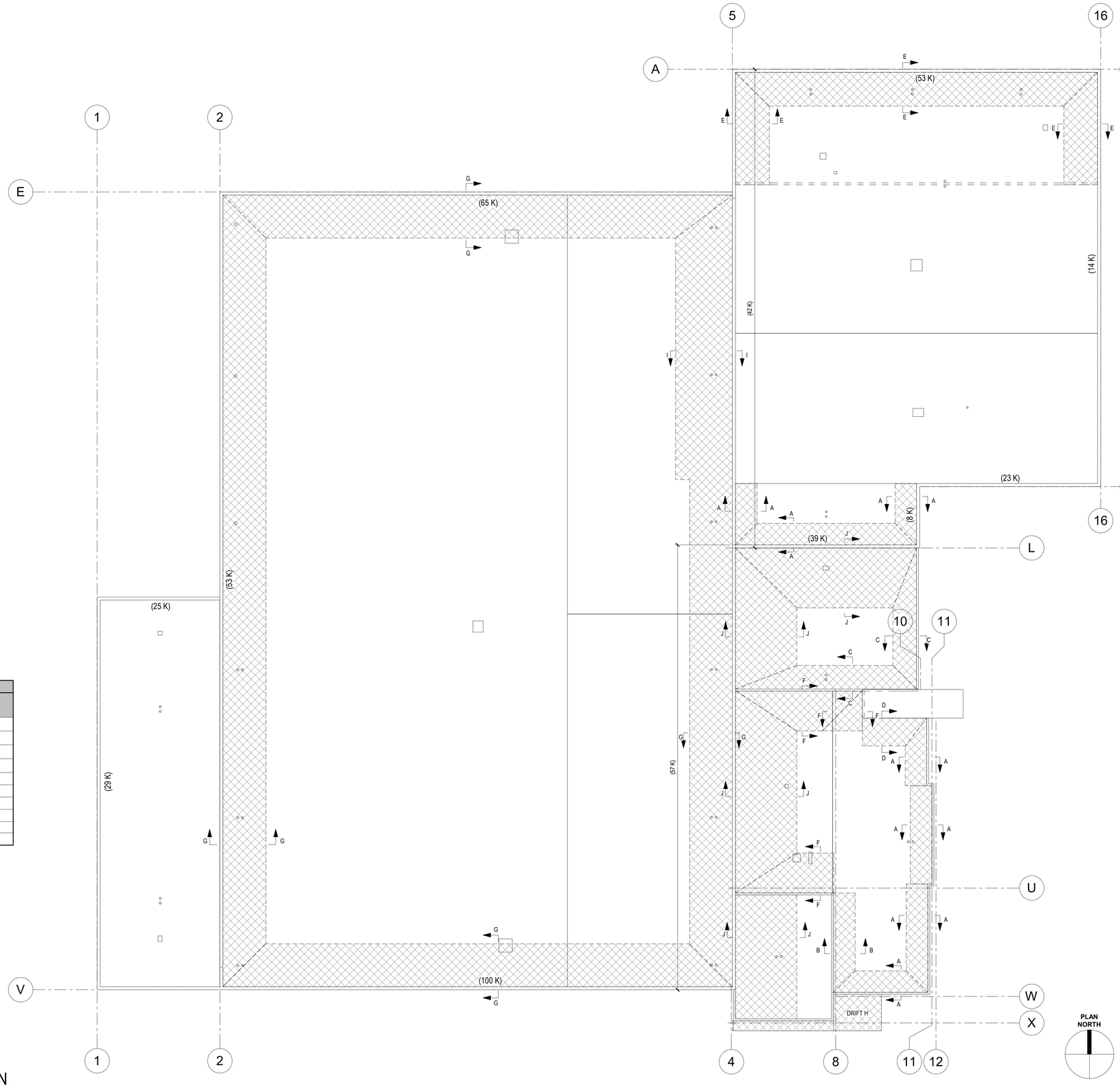
MAIN BUILDING - OVERALL

SALT BRINE SHED

KEY PLAN



TYPICAL SECTION THRU SNOW DRIFT



1 S003 SCALE: N.T.S.

SNOW DRIFT AND PRECAST SHEAR WALL LOADING PLAN

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SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
STRUCTURAL NOTES

SHEET
S003

STRUCTURAL DESIGN CRITERIA - PEMB BUILDINGS

CODES AND STANDARDS
- WISCONSIN COMMERCIAL BUILDING CODE, SPS 362 (LATEST EDITION);
- IBC 2021;
- OTHER CODES AS INDICATED IN THE STRUCTURAL NOTES.

DESIGN LOADS
RISK CATEGORY 'II'

EXPOSURE CATEGORY 'C'

DEAD LOAD (DL)
- ROOF DEAD LOAD — 3.1 PSF (PER PEMB SUPPLIER)

LIVE LOAD (LL)
- ROOF LL (DISTRIBUTED) — 20 PSF

SNOW LOAD (SL)
- DESIGN ROOF SL (p_s) — 42 PSF + DRIFT
- FLAT ROOF SL (p_f) — 42 PSF
- GROUND SL (p_g) — 50 PSF
- IMPORTANCE FACTOR (I_s) — 1.00
- EXPOSURE FACTOR (C_e) — 1.00
- THERMAL FACTOR (C_t) — 1.20
- ROOF SLOPE FACTOR (C_s) — 1.00
- SNOW DRIFT — SEE DETAIL

WIND LOAD (WL)
- MAIN WIND FORCE RESISTING SYSTEM (MWFRS) LOADS DETERMINED BY ASCE 7 *ENVELOPE PROCEDURE FOR ENCLOSED AND PARTIALLY ENCLOSED LOW-RISE BUILDINGS.*
- COMPONENTS AND CLADDING (C&C) LOADS DETERMINED BY ASCE 7 *COMPONENTS AND CLADDING ENVELOPE PROCEDURE FOR LOW-RISE BUILDINGS.*
- BASIC WIND SPEED (V) — 107 MPH
- BUILDING CLASSIFICATION — ENCLOSED
- DIRECTIONALITY FACTOR (K_d) — 0.85
- VEL. PRESSURE COEFFICIENT (K_h) — 0.94
- TOPOGRAPHIC FACTOR (K_{zt}) — 1.00
- VELOCITY PRESSURE (q_h) — 23.3 PSF
- MWFRS DESIGN WIND PRESSURES — (SEE COMPUTATIONS)
- C&C DESIGN WIND PRESSURES — (SEE TABLE)

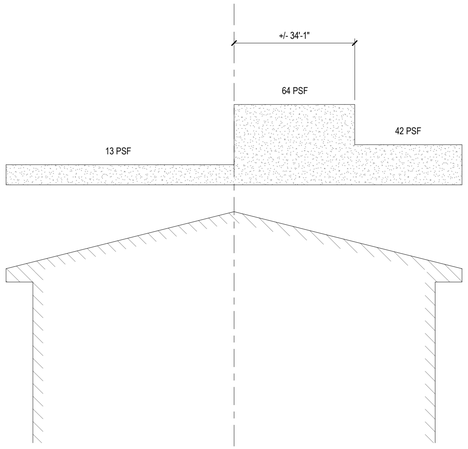
SEISMIC LOAD
- SITE CLASS — D
- IMPORTANCE FACTOR (I_e) — 1.00
- MAPPED RESPONSE (S_S) — 0.049 g
- MAPPED RESPONSE (S_1) — 0.036 g
- DESIGN RESPONSE (S_{DS}) — 0.052 g
- DESIGN RESPONSE (S_{D1}) — 0.058 g
- SEISMIC DESIGN CATEGORY — A
- ANALYSIS PROCEDURE — INDEX FORCE
- DESIGN BASE SHEAR — V = (0.01) x (STRUCTURE WEIGHT)

C&C DESIGN WIND PRESSURE (PEMB) (PSF)

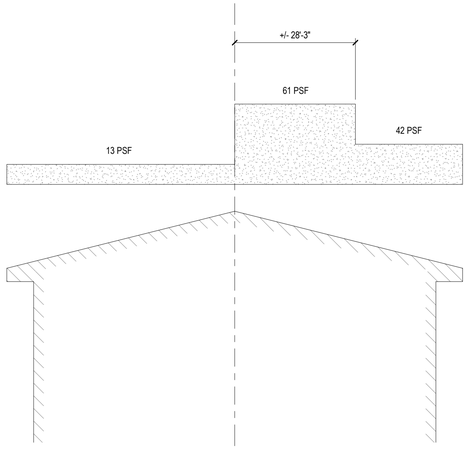
ZONE	EFFECTIVE AREA =		10 SF	20 SF	50 SF	100 SF
ZONE 1		(MIN)	-44	-41	-37	-34
		(MAX)	16	16	16	16
ZONE 2		(MIN)	-58	-54	-49	-46
		(MAX)	16	16	16	16
ZONE 3		(MIN)	-79	-71	-62	-54
		(MAX)	16	16	16	16
ZONE 2 (overhang)		(MIN)	--	--	--	--
		(MAX)	--	--	--	--
ZONE 3 (overhang)		(MIN)	--	--	--	--
		(MAX)	--	--	--	--
ZONE 4		(MIN)	-28	-26	-25	-24
		(MAX)	25	24	23	22
ZONE 5		(MIN)	-34	-32	-29	-26
		(MAX)	25	24	23	22

LATERAL FORCE RESISTING SYSTEM (LFRS)
BY PEMB SUPPLIER

GEOTECHNICAL DESIGN CRITERIA
- ALLOWABLE SOIL BEARING PRESSURE — 3000 PSF
- FROST DEPTH — 48 IN
- MODULUS OF SUBGRADE REACTION — 200 PCI



UNBALANCED SNOW LOAD
VEHICLE COLD STORAGE



UNBALANCED SNOW LOAD
EQUIPMENT COLD STORAGE

STRUCTURAL DESIGN CRITERIA - SALT BRINE SHED

CODES AND STANDARDS
- WISCONSIN COMMERCIAL BUILDING CODE, SPS 362 (LATEST EDITION);
- IBC 2021;
- OTHER CODES AS INDICATED IN THE STRUCTURAL NOTES.

DESIGN LOADS
RISK CATEGORY 'II'

EXPOSURE CATEGORY 'C'

DEAD LOAD (DL)
- SUPERIMPOSED ROOF DL — 24 PSF (INCL. INSULATION, ROOFING MEMBRANE)
- SUPERIMPOSED ROOF DL — 9 PSF (FOR WIND UPLIFT RESISTANCE)
- MEP ALLOWANCE - MAIN BUILDING — 7 PSF (3 PSF SPRINKLERS + 4 PSF ALL ELSE)
- HVAC UNITS — SEE S122 FOR WEIGHT OF INDIVIDUAL HVAC UNITS

NOTE: 10" PC PLANK DL ASSUMED 76 PSF

LIVE LOAD (LL)
- ROOF LL (DISTRIBUTED) — 20 PSF

SNOW LOAD (SL)
- DESIGN ROOF SL (p_s) — 42 PSF + DRIFT
- FLAT ROOF SL (p_f) — 42 PSF
- GROUND SL (p_g) — 50 PSF
- IMPORTANCE FACTOR (I_s) — 1.00
- EXPOSURE FACTOR (C_e) — 1.00
- THERMAL FACTOR (C_t) — 1.20
- ROOF SLOPE FACTOR (C_s) — 1.00
- SNOW DRIFT — SEE DETAIL

WIND LOAD (WL)
- MAIN WIND FORCE RESISTING SYSTEM (MWFRS) LOADS DETERMINED BY ASCE 7 *ENVELOPE PROCEDURE FOR ENCLOSED AND PARTIALLY ENCLOSED LOW-RISE BUILDINGS.*
- COMPONENTS AND CLADDING (C&C) LOADS DETERMINED BY ASCE 7 *COMPONENTS AND CLADDING ENVELOPE PROCEDURE FOR LOW-RISE BUILDINGS.*
- BASIC WIND SPEED (V) — 107 MPH
- BUILDING CLASSIFICATION — ENCLOSED
- DIRECTIONALITY FACTOR (K_d) — 0.85
- VEL. PRESSURE COEFFICIENT (K_h) — 0.93
- TOPOGRAPHIC FACTOR (K_{zt}) — 1.00
- VELOCITY PRESSURE (q_h) — 23.1 PSF
- MWFRS DESIGN WIND PRESSURES — (SEE COMPUTATIONS)
- C&C DESIGN WIND PRESSURES — (SEE TABLE)

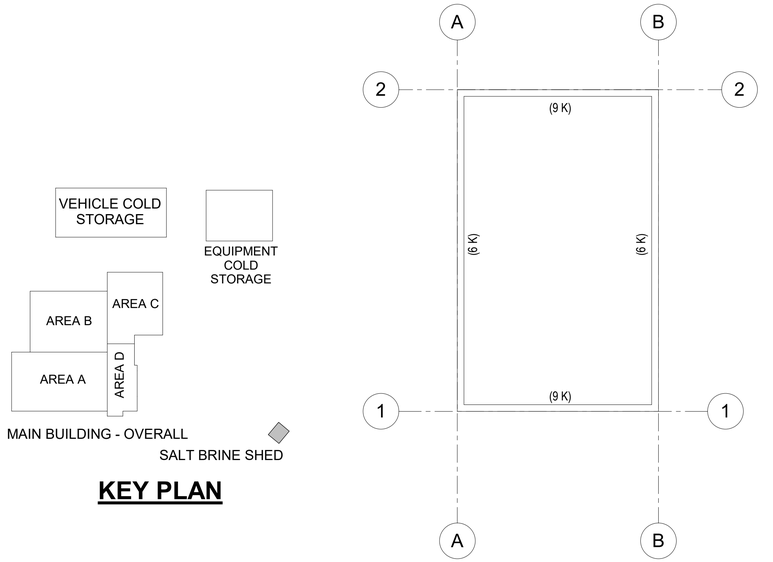
SEISMIC LOAD
- SITE CLASS — D
- IMPORTANCE FACTOR (I_e) — 1.00
- MAPPED RESPONSE (S_S) — 0.049 g
- MAPPED RESPONSE (S_1) — 0.036 g
- DESIGN RESPONSE (S_{DS}) — 0.052 g
- DESIGN RESPONSE (S_{D1}) — 0.058 g
- SEISMIC DESIGN CATEGORY — A
- ANALYSIS PROCEDURE — INDEX FORCE
- DESIGN BASE SHEAR — V = (0.01) x (STRUCTURE WEIGHT)

C&C DESIGN WIND PRESSURE (SBS) (PSF)

ZONE	EFFECTIVE AREA =		10 SF	20 SF	50 SF	100 SF
ZONE 1		(MIN)	-44	-41	-37	-34
		(MAX)	16	16	16	16
ZONE 2		(MIN)	-58	-54	-49	-46
		(MAX)	16	16	16	16
ZONE 3		(MIN)	-79	-71	-62	-54
		(MAX)	16	16	16	16
ZONE 2 (overhang)		(MIN)	--	--	--	--
		(MAX)	--	--	--	--
ZONE 3 (overhang)		(MIN)	--	--	--	--
		(MAX)	--	--	--	--
ZONE 4		(MIN)	-28	-26	-25	-24
		(MAX)	25	24	23	22
ZONE 5		(MIN)	-34	-32	-29	-26
		(MAX)	25	24	23	22

LATERAL FORCE RESISTING SYSTEM (LFRS)
SALT BRINE SHED LFRS IS PRECAST PLANK DECK ACTING AS DIAPHRAGM BETWEEN PRECAST CONCRETE SHEAR WALLS ON STRIP FOOTINGS.

GEOTECHNICAL DESIGN CRITERIA
- ALLOWABLE SOIL BEARING PRESSURE — 3000 PSF
- FROST DEPTH — 48 IN
- MODULUS OF SUBGRADE REACTION — 200 PCI



KEY PLAN

1 S004 ROOF LOADING PLAN - SALT BRINE SHED
SCALE: N.T.S.

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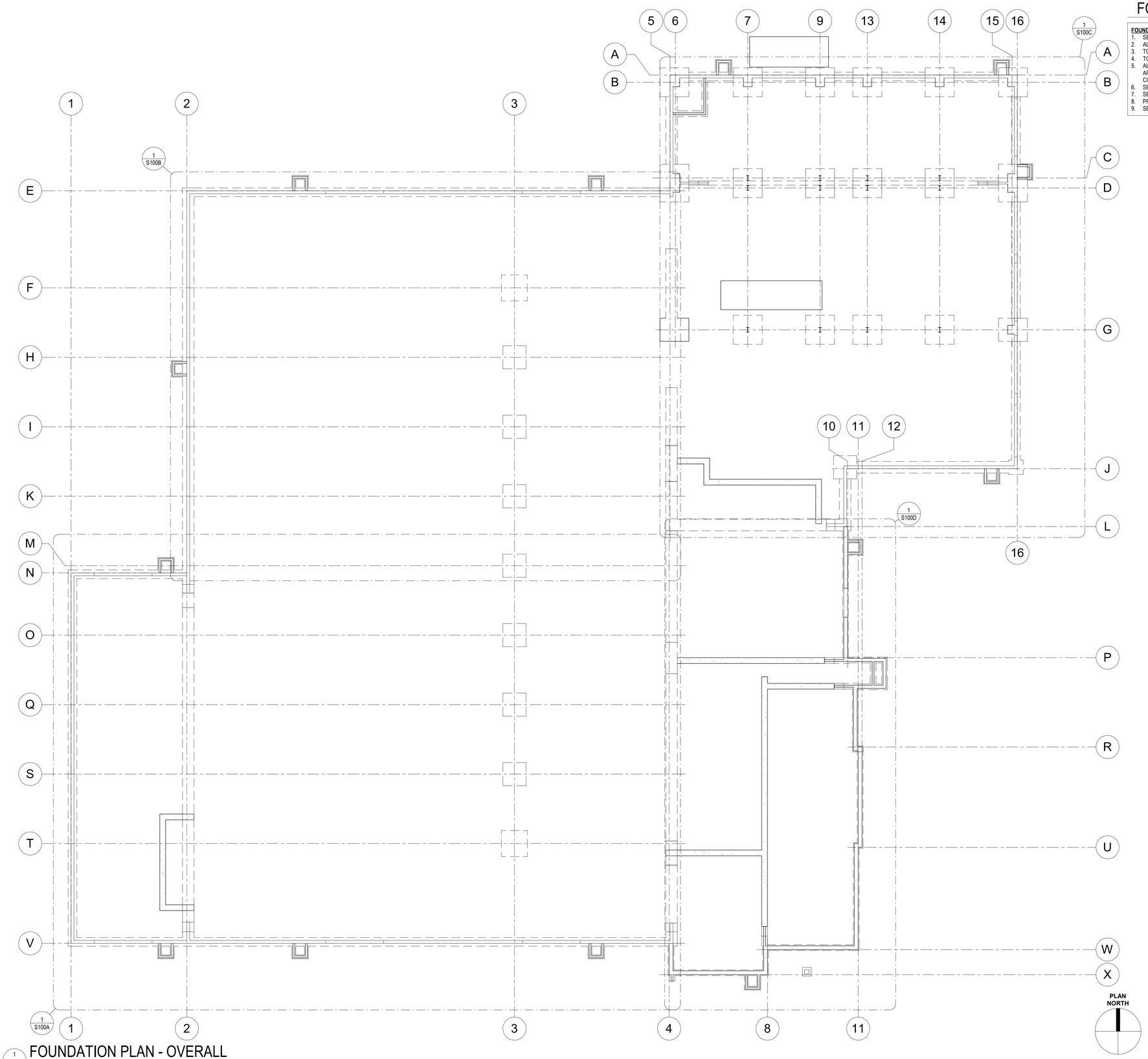
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
STRUCTURAL NOTES

SHEET
S004



1 S100 FOUNDATION PLAN - OVERALL

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

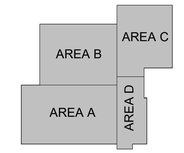
FOUNDATION PLAN NOTES

FOUNDATION PLAN NOTES

1. SEE SHEET S001 THRU S003 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. ALL GRIDS DENOTE THE EXTERIOR FACE OF FOUNDATION WALL OR COLUMN CENTERLINE.
3. TOP OF FOUNDATION WALL ELEVATION IS 99'-0", UNO.
4. TOP OF PIER ELEVATION IS 99'-0", UNO.
5. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR TO CONFORM WITH THOSE SHOWN ON THE ARCH DRAWINGS. VERIFY ALL STOOP AND DOOR LOCATIONS AND SIZES WITH ARCH DRAWINGS PRIOR TO PLACING CONCRETE.
6. SEE ARCHITECTURAL DRAWINGS FOR FLOOR PITCHES, DEPRESSIONS, ETC.
7. SEE S701 AND S702 FOR TYPICAL FOUNDATION DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
8. PROVIDE RIGID INSULATION AT EXTERIOR FOUNDATION WALLS. SEE ARCH FOR DETAILS.
9. SEE CIVIL DRAWINGS FOR EXTERIOR CONCRETE FLATWORK NOT SHOWN OR DETAILED ON THIS SHEET.

VEHICLE COLD STORAGE

EQUIPMENT COLD STORAGE



MAIN BUILDING - OVERALL

SALT BRINE SHED

KEY PLAN

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ISSUED/SET TO

SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
FOUNDATION PLAN - OVERALL

SHEET
S100

FOUNDATION PLAN NOTES AND SCHEDULES - AREA A

FOUNDATION PLAN NOTES

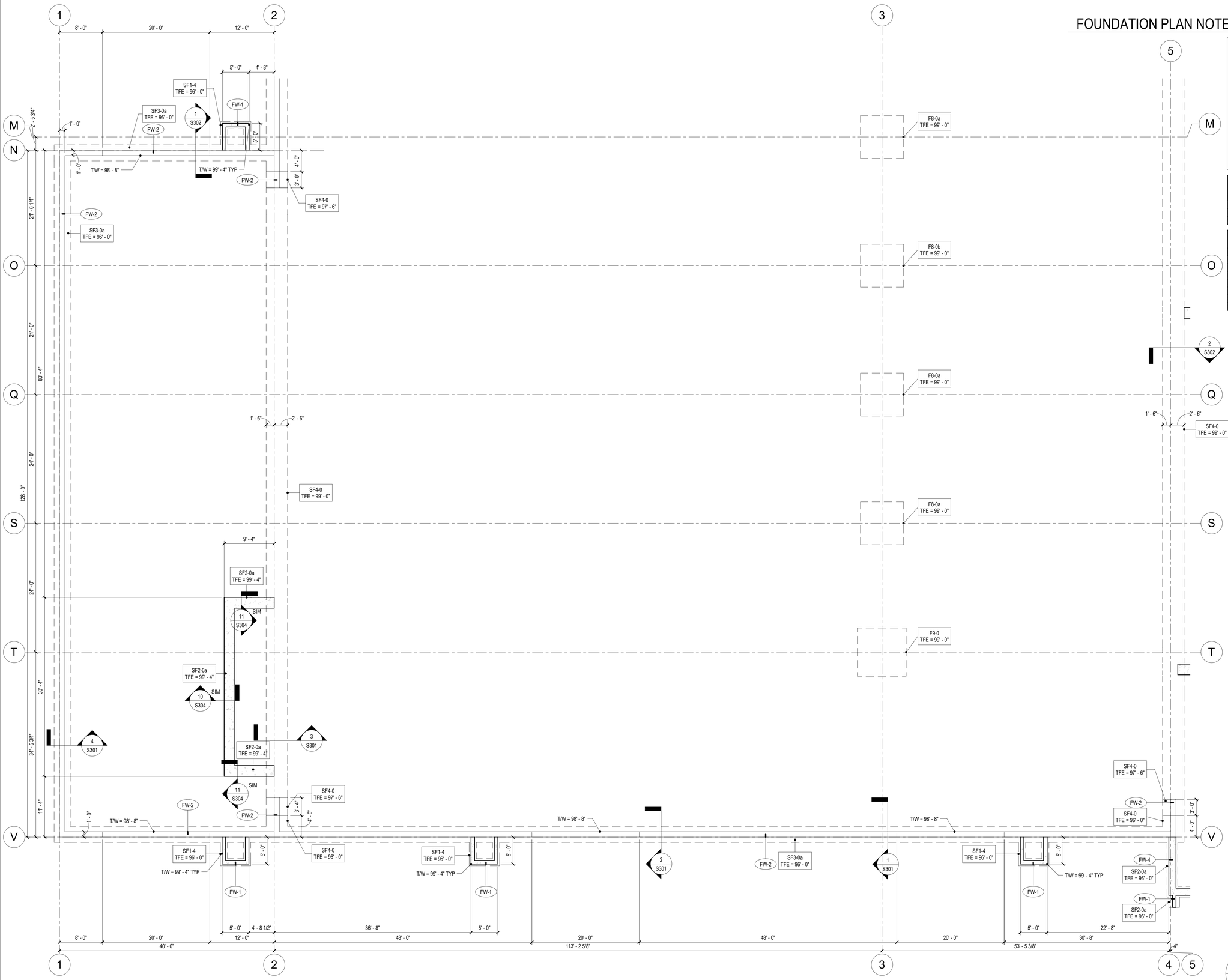
1. SEE SHEET S001 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
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4. TOP OF PIER ELEVATION IS 99'-0", UNO.
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8. PROVIDE RIGID INSULATION AT EXTERIOR FOUNDATION WALLS. SEE ARCH FOR DETAILS.
9. SEE CIVIL DRAWINGS FOR EXTERIOR CONCRETE FLATWORK NOT SHOWN OR DETAILED ON THIS SHEET.

FOUNDATION WALL SCHEDULE

MARK	WIDTH (W)	VERTICAL REINF	HORIZONTAL REINF
FW-1	8"	#5 AT 1'-2" OC (CENTERED)	#5 AT 1'-6" OC (CENTERED)
FW-2	1' - 0"	#5 AT 1'-2" OC (EACH FACE)	#5 AT 1'-6" OC (EACH FACE)
FW-4	1' - 4"	#5 AT 1'-2" OC (EACH FACE)	#5 AT 1'-6" OC (EACH FACE)

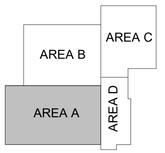
FOOTING SCHEDULE

MARK	FOOTING TYPE	B	W	D	LONGIT REINF	TRANSV REINF
F8-0a	COLUMN FTG	8' - 0"	8' - 0"	1' - 6"	(9) #6 T&B	(9) #6 T&B
F8-0b	COLUMN FTG	8' - 0"	8' - 0"	1' - 6"	(9) #6 T&B	(9) #6 T&B
F9-0	COLUMN FTG	9' - 0"	9' - 0"	1' - 6"	(10) #6 T&B	(10) #6 T&B
SF1-4	STRIP FTG	1' - 4"	<varies>	1' - 0"	(2) #5	#5 AT 1'-2" OC
SF2-0a	STRIP FTG	2' - 0"	<varies>	1' - 0"	(3) #5	#5 AT 1'-2" OC
SF3-0a	STRIP FTG	3' - 0"	<varies>	1' - 0"	(4) #5	#5 AT 1'-2" OC
SF4-0	STRIP FTG	4' - 0"	<varies>	1' - 0"	(5) #5	#5 AT 1'-2" OC



VEHICLE COLD STORAGE

EQUIPMENT COLD STORAGE



MAIN BUILDING - OVERALL

SALT BRINE SHED

KEY PLAN

PLAN NORTH

1 S100A FOUNDATION PLAN - AREA A

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

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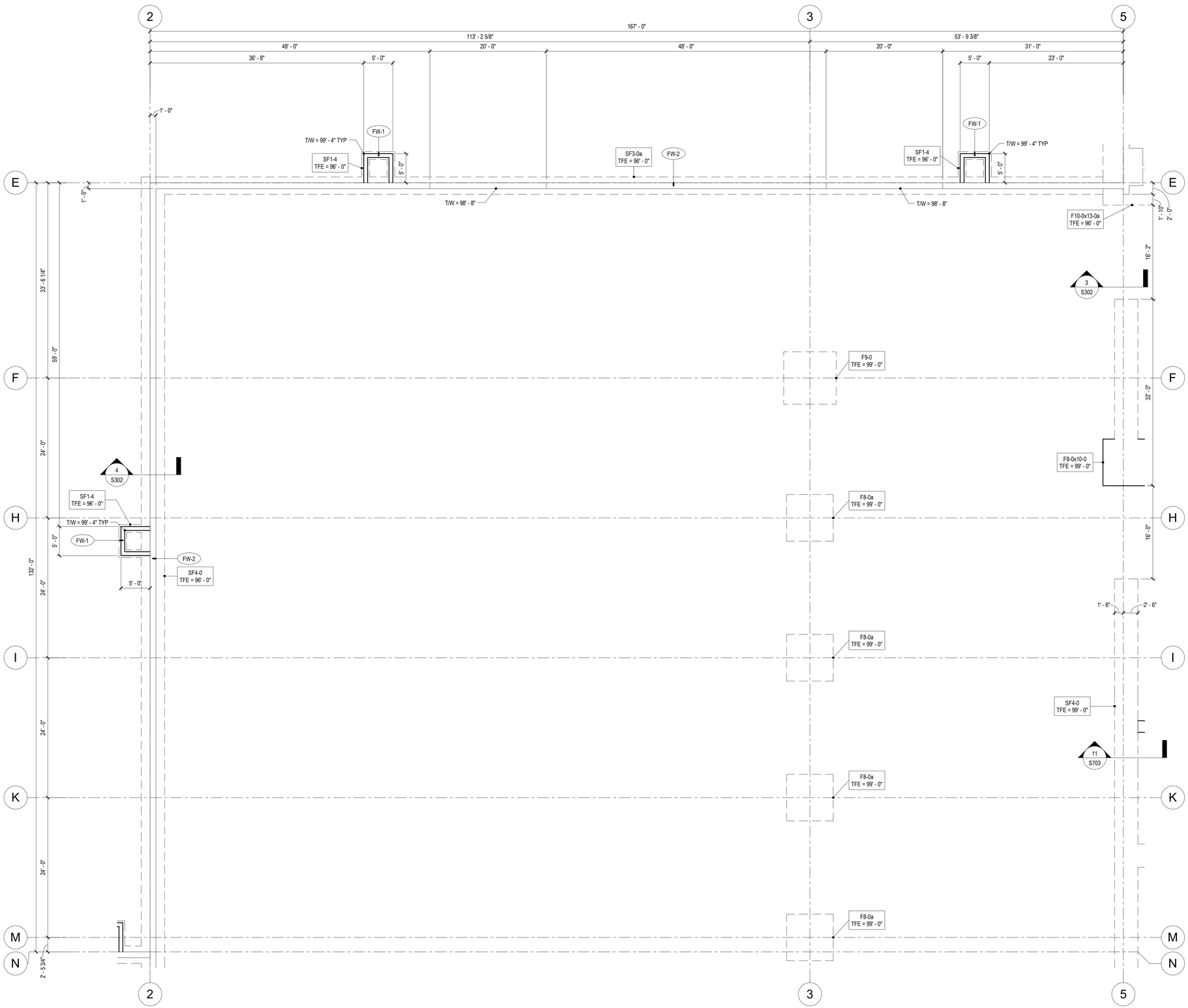
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
FOUNDATION PLAN - AREA A

SHEET
S100A



1 S100B FOUNDATION PLAN - AREA B

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

FOUNDATION PLAN NOTES AND SCHEDULES - AREA B

FOUNDATION PLAN NOTES

1. SEE SHEET S001 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. ALL GRIDS DENOTE THE EXTERIOR FACE OF FOUNDATION WALL OR COLUMN CENTERLINE.
3. TOP OF FOUNDATION WALL ELEVATION IS 99'-0", UNO.
4. TOP OF PIER ELEVATION IS 99'-0", UNO.
5. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR TO CONFORM WITH THOSE SHOWN ON THE ARCH DRAWINGS. VERIFY ALL STOOP AND DOOR LOCATIONS AND SIZES WITH ARCH DRAWINGS PRIOR TO PLACING CONCRETE.
6. SEE ARCHITECTURAL DRAWINGS FOR FLOOR PITCHES, DEPRESSIONS, ETC.
7. SEE S701 AND S702 FOR TYPICAL FOUNDATION DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
8. PROVIDE RIGID INSULATION AT EXTERIOR FOUNDATION WALLS. SEE ARCH FOR DETAILS.
9. SEE CIVIL DRAWINGS FOR EXTERIOR CONCRETE FLATWORK NOT SHOWN OR DETAILED ON THIS SHEET.

FOUNDATION WALL SCHEDULE

MARK	WIDTH (W)	VERTICAL REINF	HORIZONTAL REINF
FW-1	8"	#5 AT 1'-2" OC (CENTERED)	#5 AT 1'-6" OC (CENTERED)
FW-2	1' - 0"	#5 AT 1'-2" OC (EACH FACE)	#5 AT 1'-6" OC (EACH FACE)

FOOTING SCHEDULE

MARK	FOOTING TYPE	B	W	D	LONGIT REINF	TRANSV REINF
F8-0a	COLUMN FTG	8' - 0"	8' - 0"	1' - 6"	(9) #6 T&B	(9) #6 T&B
F8-0x10-0	COLUMN FTG	8' - 0"	10' - 0"	1' - 8"	(9) #6 T&B	(11) #6 T&B
F9-0	COLUMN FTG	9' - 0"	9' - 0"	1' - 6"	(10) #6 T&B	(10) #6 T&B
F10-0x13-0a	COLUMN FTG	10' - 0"	13' - 0"	1' - 8"	(11) #6 T&B	(14) #6 T&B
SF1-4	STRIP FTG	1' - 4"	<varies>	1' - 0"	(2) #5	#5 AT 1'-2" OC
SF2-0a	STRIP FTG	2' - 0"	10' - 6"	1' - 0"	(3) #5	#5 AT 1'-2" OC
SF3-0a	STRIP FTG	3' - 0"	<varies>	1' - 0"	(4) #5	#5 AT 1'-2" OC
SF4-0	STRIP FTG	4' - 0"	<varies>	1' - 0"	(5) #5	#5 AT 1'-2" OC

VEHICLE COLD STORAGE

EQUIPMENT COLD STORAGE

AREA B

AREA C

AREA A

AREA D

MAIN BUILDING - OVERALL

SALT BRINE SHED

PLAN NORTH

KEY PLAN

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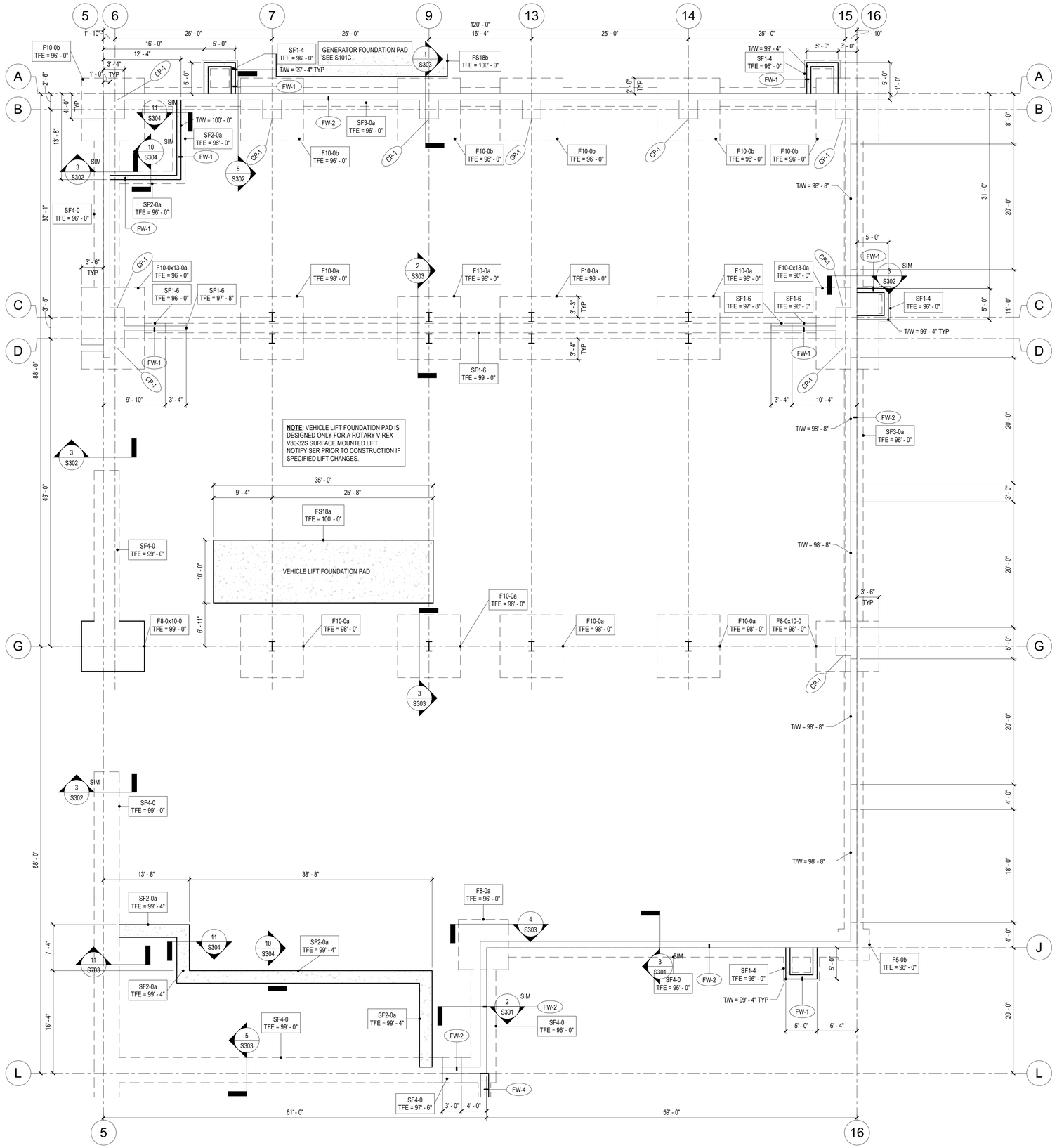
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BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
FOUNDATION PLAN - AREA B

SHEET
S100B



1 S100C FOUNDATION PLAN - AREA C
SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES AND SCHEDULES - AREA C

FOUNDATION PLAN NOTES

1. SEE SHEET S001 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. ALL GRIDS DENOTE THE EXTERIOR FACE OF FOUNDATION WALL OR COLUMN CENTERLINE.
3. TOP OF FOUNDATION WALL ELEVATION IS 99'-0", UNO.
4. TOP OF PIER ELEVATION IS 99'-0", UNO.
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7. SEE S701 AND S702 FOR TYPICAL FOUNDATION DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
8. PROVIDE RIGID INSULATION AT EXTERIOR FOUNDATION WALLS. SEE ARCH FOR DETAILS.
9. SEE CIVIL DRAWINGS FOR EXTERIOR CONCRETE FLATWORK NOT SHOWN OR DETAILED ON THIS SHEET.

FOUNDATION WALL SCHEDULE

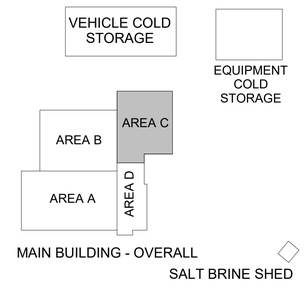
MARK	WIDTH (W)	VERTICAL REINF	HORIZONTAL REINF
FW-1	8"	#5 AT 1'-2" OC (CENTERED)	#5 AT 1'-6" OC (CENTERED)
FW-2	1' - 0"	#5 AT 1'-2" OC (EACH FACE)	#5 AT 1'-6" OC (EACH FACE)
FW-4	1' - 4"	#5 AT 1'-2" OC (EACH FACE)	#5 AT 1'-6" OC (EACH FACE)

CONCRETE PIER SCHEDULE

MARK	b x w	VERTICAL REINF	TIES
CP-1	36" x 36"	(16) #6	#4 AT 1'-0" OC

FOOTING SCHEDULE

MARK	FOOTING TYPE	B	W	D	LONGIT REINF	TRANSV REINF
F5-0b	COLUMN FTG	5' - 0"	5' - 0"	1' - 0"	(6) #6 T&B	(6) #6 T&B
F8-0a	COLUMN FTG	8' - 0"	8' - 0"	1' - 6"	(9) #6 T&B	(9) #6 T&B
F8-0x10-0	COLUMN FTG	8' - 0"	10' - 0"	1' - 8"	(9) #6 T&B	(11) #6 T&B
F10-0a	COLUMN FTG	10' - 0"	10' - 0"	2' - 0"	(13) #6 T&B	(13) #6 T&B
F10-0b	COLUMN FTG	10' - 0"	10' - 0"	1' - 8"	(11) #6 T&B	(11) #6 T&B
F10-0x13-0a	COLUMN FTG	10' - 0"	13' - 0"	1' - 8"	(11) #6 T&B	(14) #6 T&B
FS18a	MAT/SLAB FTG	35' - 0"	10' - 0"	1' - 6"	#6 AT 1'-0" OC	#6 AT 1'-0" OC
FS18b	MAT/SLAB FTG	27' - 3"	10' - 6"	1' - 6"	#6 AT 1'-0" OC	#6 AT 1'-0" OC
SF1-4	STRIP FTG	1' - 4"	<varies>	1' - 0"	(2) #5	#5 AT 1'-2" OC
SF1-6	STRIP FTG	1' - 6"	<varies>	1' - 0"	(2) #5	#5 AT 1'-2" OC
SF2-0a	STRIP FTG	2' - 0"	<varies>	1' - 0"	(3) #5	#5 AT 1'-2" OC
SF3-0a	STRIP FTG	3' - 0"	<varies>	1' - 0"	(4) #5	#5 AT 1'-2" OC
SF4-0	STRIP FTG	4' - 0"	<varies>	1' - 0"	(5) #5	#5 AT 1'-2" OC



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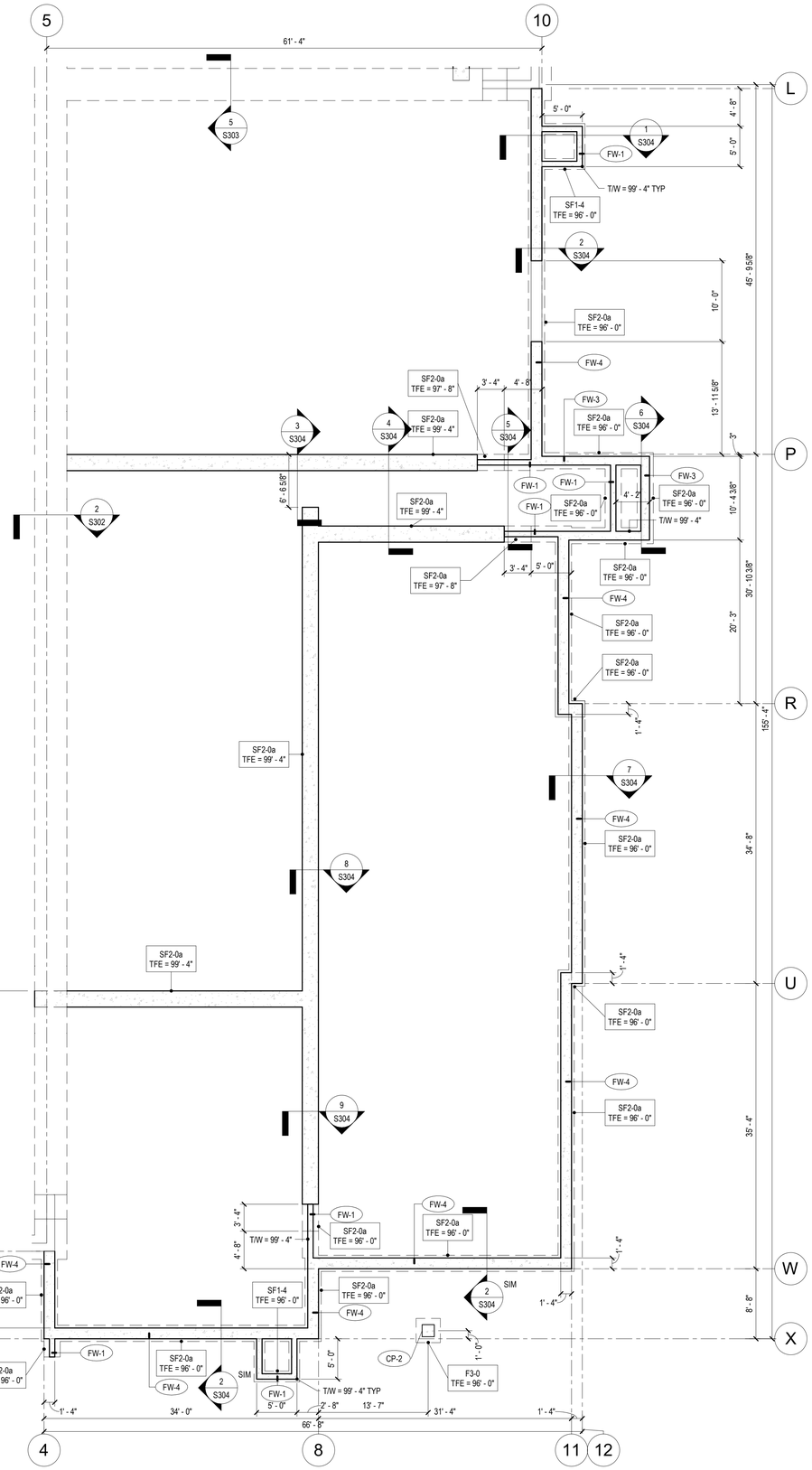
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BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
FOUNDATION PLAN - AREA C

SHEET
S100C



1 S100D FOUNDATION PLAN - AREA D

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

PLAN NORTH

FOUNDATION PLAN NOTES AND SCHEDULES - AREA D

FOUNDATION PLAN NOTES

1. SEE SHEET S001 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. ALL GRIDS DENOTE THE EXTERIOR FACE OF FOUNDATION WALL OR COLUMN CENTERLINE.
3. TOP OF FOUNDATION WALL ELEVATION IS 100'-0", UNO AT SLAB OVERPOURS ON SHEET S101D.
4. TOP OF PIER ELEVATION IS 99'-4", UNO.
5. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR TO CONFORM WITH THOSE SHOWN ON THE ARCH DRAWINGS. VERIFY ALL STOOP AND DOOR LOCATIONS AND SIZES WITH ARCH DRAWINGS PRIOR TO PLACING CONCRETE.
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8. PROVIDE RIGID INSULATION AT EXTERIOR FOUNDATION WALLS. SEE ARCH FOR DETAILS.
9. SEE CIVIL DRAWINGS FOR EXTERIOR CONCRETE FLATWORK NOT SHOWN OR DETAILED ON THIS SHEET.

FOUNDATION WALL SCHEDULE

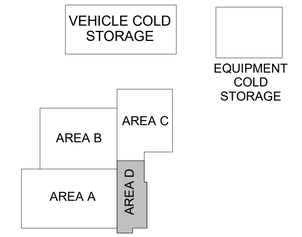
MARK	WIDTH (W)	VERTICAL REINF	HORIZONTAL REINF
FW-1	8"	#5 AT 1'-2" OC (CENTERED)	#5 AT 1'-6" OC (CENTERED)
FW-2	1' - 0"	#5 AT 1'-2" OC (EACH FACE)	#5 AT 1'-6" OC (EACH FACE)
FW-3	1' - 1"	#5 AT 1'-2" OC (EACH FACE)	#5 AT 1'-6" OC (EACH FACE)
FW-4	1' - 4"	#5 AT 1'-2" OC (EACH FACE)	#5 AT 1'-6" OC (EACH FACE)

FOOTING SCHEDULE

MARK	FOOTING TYPE	B	W	D	LONGIT REINF	TRANSV REINF
F3-0	COLUMN FTG	3' - 0"	3' - 0"	1' - 0"	(3) #6 T&B	(3) #6 T&B
SF1-4	STRIP FTG	1' - 4"	<varies>	1' - 0"	(2) #5	#5 AT 1'-2" OC
SF2-0a	STRIP FTG	2' - 0"	<varies>	1' - 0"	(3) #5	#5 AT 1'-2" OC
SF3-0a	STRIP FTG	3' - 0"	20'? - 0"	1' - 0"	(4) #5	#5 AT 1'-2" OC
SF4-0	STRIP FTG	4' - 0"	<varies>	1' - 0"	(5) #5	#5 AT 1'-2" OC

CONCRETE PIER SCHEDULE

MARK	b x w	VERTICAL REINF	TIES
CP-2	18" x 18"	(4) #6	#4 AT 1'-0" OC & (3) #4 IN TOP 5"



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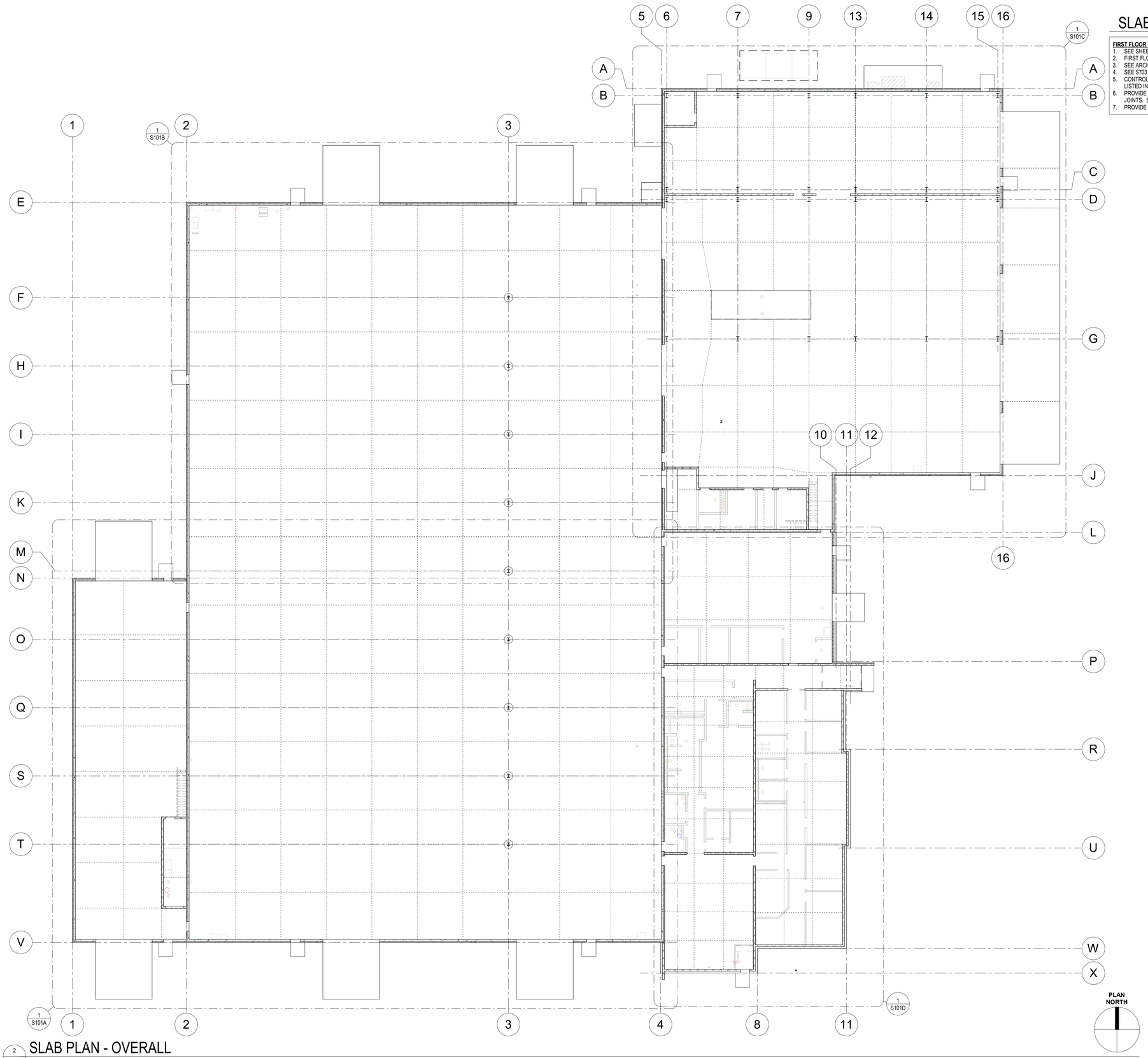
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
FOUNDATION PLAN - AREA D

SHEET
S100D



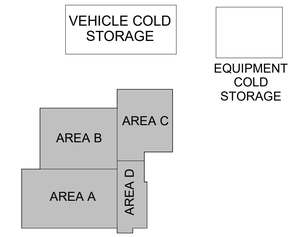
2 S101 SCALE: 1/16" = 1'-0"

SLAB PLAN - OVERALL

SLAB PLAN NOTES

FIRST FLOOR SLAB PLAN NOTES

1. SEE SHEET S001 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. FIRST FLOOR ELEVATION IS 100'-0", UNO.
3. SEE ARCHITECTURAL DRAWINGS FOR FLOOR PITCHES, DEPRESSIONS, ETC.
4. SEE S703 FOR TYPICAL SLAB-ON-GRADE DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
5. CONTROL JOINT LAYOUT SHOWN IS CONCEPTUAL. CONTRACTOR MAY ADJUST JOINT LOCATIONS BASED ON REQUIREMENTS LISTED IN THE STRUCTURAL NOTES AND ON SHEET S703.
6. PROVIDE DIAGONAL REINFORCING BARS IN SOG AT RE-ENTRANT CORNERS THAT DO NOT HAVE CONTROL OR CONSTRUCTION JOINTS. SEE 'SOG AT RE-ENTRANT CORNERS' DETAIL.
7. PROVIDE THICKENED SOG AT BASE OF STAIR STRINGERS AND POSTS. COORDINATE LOCATIONS WITH STAIR DESIGNER.



KEY PLAN

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SHEET TITLE
SLAB PLAN - OVERALL

SHEET
S101

SLAB PLAN NOTES AND SCHEDULES - AREA A

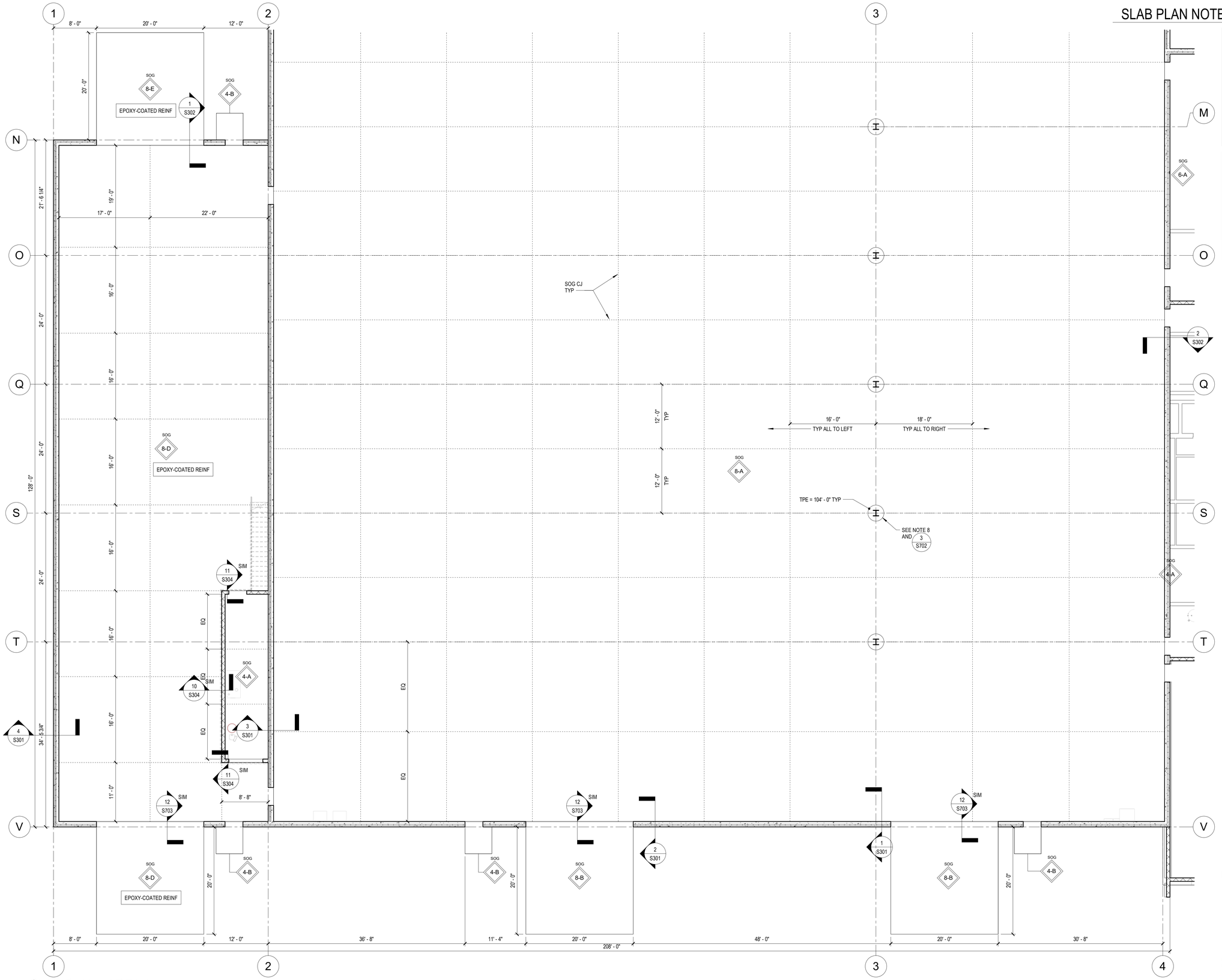
FIRST FLOOR SLAB PLAN NOTES

1. SEE SHEET S001 THROUGH S003 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. FIRST FLOOR ELEVATION IS 100'-0", UNO.
3. SEE ARCHITECTURAL DRAWINGS FOR FLOOR PITCHES, DEPRESSIONS, ETC.
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6. PROVIDE DIAGONAL REINFORCING BARS IN SOG AT RE-ENTRANT CORNERS THAT DO NOT HAVE CONTROL OR CONSTRUCTION JOINTS. SEE 'SOG AT RE-ENTRANT CORNERS' DETAIL.
7. CHAMFER CONCRETE EDGE AROUND FULL TOP PERIMETER. SEE ARCH DRAWINGS AND SPECIFICATION FOR FINISHED CONCRETE APPEARANCE.

SLAB-ON-GRADE SCHEDULE

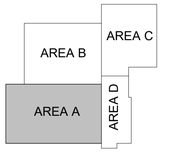
MARK	THICKNESS	REINFORCING	VAPOR BARRIER	INSULATION
4-A	4"	4x4 - W2.9xW2.9 WWF	Y	N
4-B	4"	4x4 - W2.9xW2.9 WWF	N	N
6-A	6"	4x4 - W4.5xW4.5 WWF	Y	N
8-A	8"	4x4 - W8.5xW8.5 WWF	Y	N
8-B	8"	4x4 - W8.5xW8.5 WWF	N	N
8-D	8"	#5 AT 1'-0" EA WAY	Y	Y
8-E	8"	#5 AT 1'-0" EA WAY	N	N
10-C	10"	4x4 - W8.5xW8.5 WWF	Y	Y

NOTE: SLABS REQUIRING EPOXY-COATED REINFORCEMENT INDICATED ON PLAN.



VEHICLE COLD STORAGE

EQUIPMENT COLD STORAGE



MAIN BUILDING - OVERALL

SALT BRINE SHED

KEY PLAN

PLAN NORTH

1 S101A SLAB PLAN - AREA A

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

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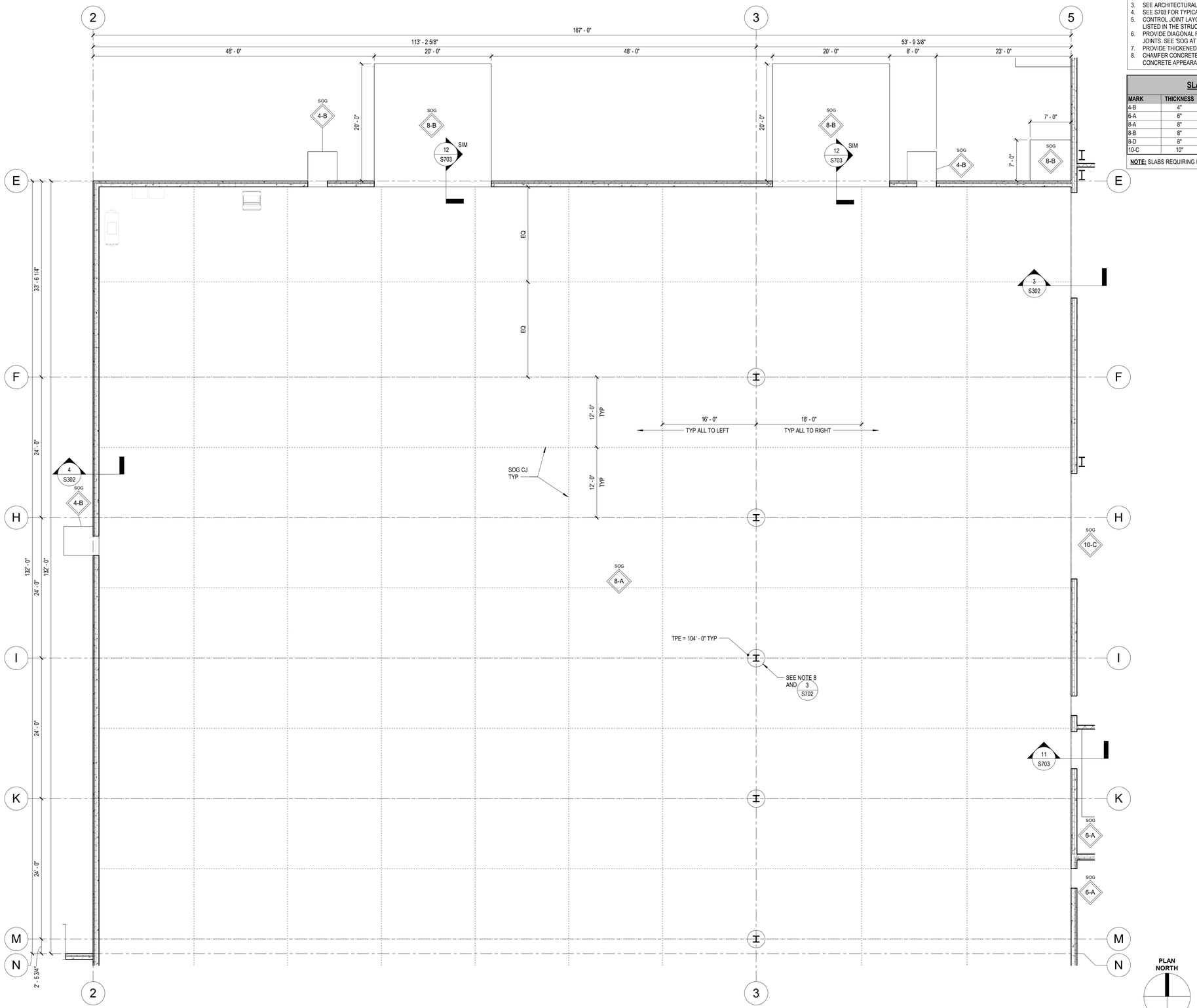
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SHEET TITLE
SLAB PLAN - AREA A

SHEET
S101A



1 S101B SLAB PLAN - AREA B

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

SLAB PLAN NOTES AND SCHEDULES - AREA B

FIRST FLOOR SLAB PLAN NOTES

1. SEE SHEET S001 THROUGH S003 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. FIRST FLOOR ELEVATION IS 100'-0", UNO.
3. SEE ARCHITECTURAL DRAWINGS FOR FLOOR PITCHES, DEPRESSIONS, ETC.
4. SEE S703 FOR TYPICAL SLAB-ON-GRADE DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
5. CONTROL JOINT LAYOUT SHOWN IS CONCEPTUAL. CONTRACTOR MAY ADJUST JOINT LOCATIONS BASED ON REQUIREMENTS LISTED IN THE STRUCTURAL NOTES AND ON SHEET S703.
6. PROVIDE DIAGONAL REINFORCING BARS IN SOG AT RE-ENTRANT CORNERS THAT DO NOT HAVE CONTROL OR CONSTRUCTION JOINTS. SEE 'SOG AT RE-ENTRANT CORNERS' DETAIL.
7. PROVIDE THICKENED SOG AT BASE OF STAIR STRINGERS AND POSTS. COORDINATE LOCATIONS WITH STAIR DESIGNER.
8. CHAMFER CONCRETE EDGE AROUND FULL TOP PERIMETER. SEE ARCH DRAWINGS AND SPECIFICATION FOR FINISHED CONCRETE APPEARANCE.

SLAB-ON-GRADE SCHEDULE

MARK	THICKNESS	REINFORCING	VAPOR BARRIER	INSULATION
4-B	4"	4x4 - W2.9xW2.9 WWF	N	N
6-A	6"	4x4 - W4.5xW4.5 WWF	Y	N
8-A	8"	4x4 - W8.5xW8.5 WWF	Y	N
8-B	8"	4x4 - W8.5xW8.5 WWF	N	N
8-D	8"	#5 AT 1'-0" EA WAY	Y	Y
10-C	10"	4x4 - W8.5xW8.5 WWF	Y	Y

NOTE: SLABS REQUIRING EPOXY-COATED REINFORCEMENT INDICATED ON PLAN.

VEHICLE COLD STORAGE

EQUIPMENT COLD STORAGE

AREA B

AREA C

AREA A

AREA D

MAIN BUILDING - OVERALL

SALT BRINE SHED

KEY PLAN

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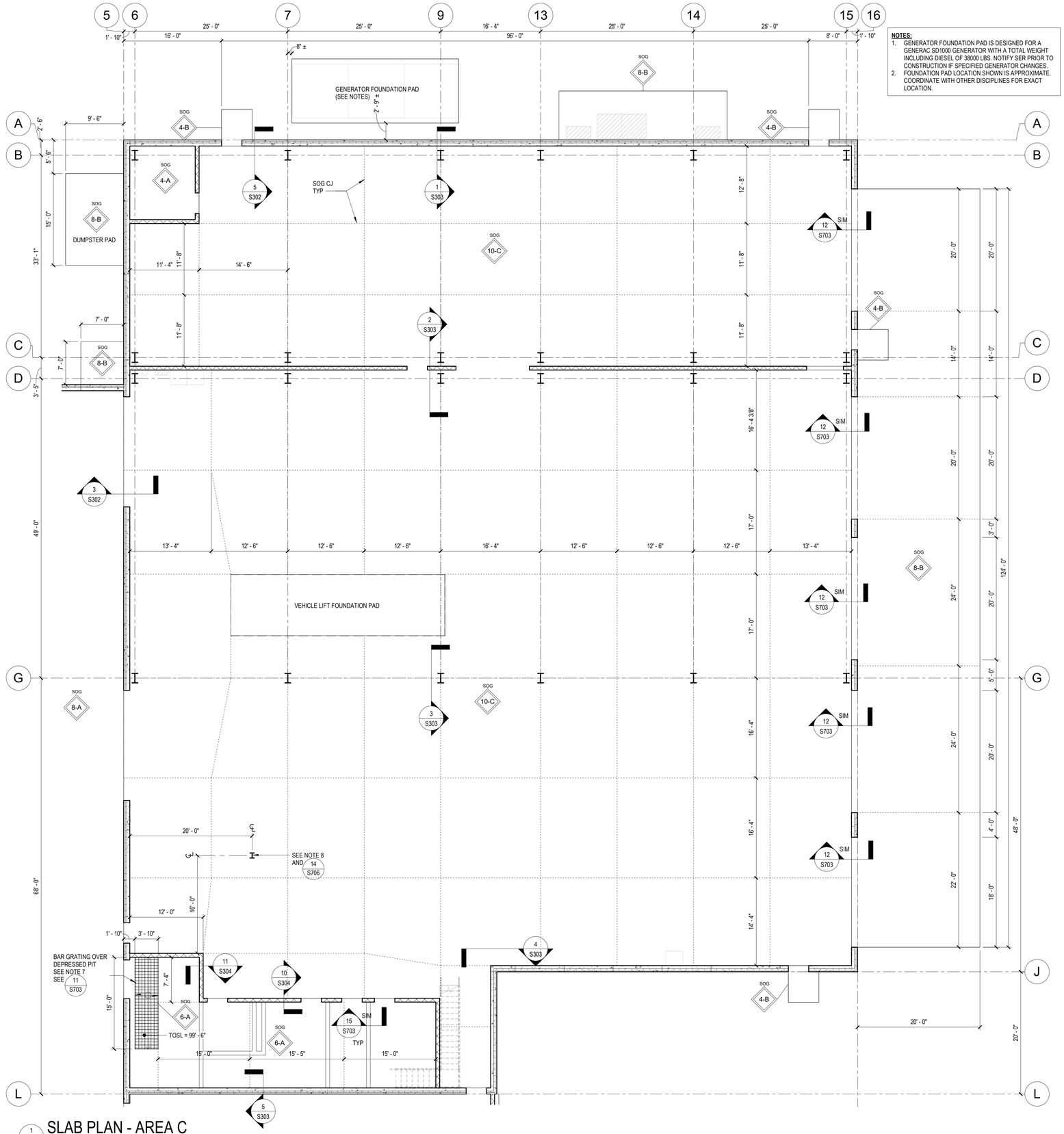
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23-1964.00

DATE
06.22.2026

SHEET TITLE
SLAB PLAN - AREA B

SHEET
S101B



1 S101C SLAB PLAN - AREA C

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

NOTES:

1. GENERATOR FOUNDATION PAD IS DESIGNED FOR A GENERAC SD1000 GENERATOR WITH A TOTAL WEIGHT INCLUDING DIESEL OF 38000 LBS. NOTIFY SER PRIOR TO CONSTRUCTION IF SPECIFIED GENERATOR CHANGES.
2. FOUNDATION PAD LOCATION SHOWN IS APPROXIMATE. COORDINATE WITH OTHER DISCIPLINES FOR EXACT LOCATION.

SLAB PLAN NOTES AND SCHEDULES - AREA C

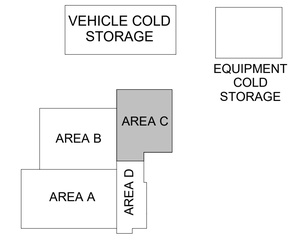
FIRST FLOOR SLAB PLAN NOTES

1. SEE SHEET S001 THROUGH S003 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. FIRST FLOOR ELEVATION IS 100'-0", UNO.
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4. SEE S703 FOR TYPICAL SLAB-ON-GRADE DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
5. CONTROL JOINT LAYOUT SHOWN IS CONCEPTUAL. CONTRACTOR MAY ADJUST JOINT LOCATIONS BASED ON REQUIREMENTS LISTED IN THE STRUCTURAL NOTES AND ON SHEET S703.
6. PROVIDE DIAGONAL REINFORCING BARS IN SOG AT RE-ENTRANT CORNERS THAT DO NOT HAVE CONTROL OR CONSTRUCTION JOINTS. SEE 'SOG AT RE-ENTRANT CORNERS' DETAIL.
7. BAR GRATING SHALL BE 1-1/2" X 3/16" MCNICHOLS BAR GRATING STANDARD DUTY WELDED RECTANGULAR BAR, GW-150, GALVANIZED FINISH OR SER APPROVED EQUAL.
8. W10X33 STEEL SERVICE POST MOUNTED TO SLAB-ON-GRADE. POST EXTENDS 5'-0" AFF, SEE ARCH FOR FINISHES.

SLAB-ON-GRADE SCHEDULE

MARK	THICKNESS	REINFORCING	VAPOR BARRIER	INSULATION
4-A	4"	4x4 - W2.9xW2.9 WWF	Y	N
4-B	4"	4x4 - W2.9xW2.9 WWF	N	N
6-A	6"	4x4 - W4.5xW4.5 WWF	Y	N
8-A	8"	4x4 - W8.5xW8.5 WWF	Y	N
8-B	8"	4x4 - W8.5xW8.5 WWF	N	N
10-C	10"	4x4 - W8.5xW8.5 WWF	Y	Y

NOTE: SLABS REQUIRING EPOXY-COATED REINFORCEMENT INDICATED ON PLAN.



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ISSUANCE

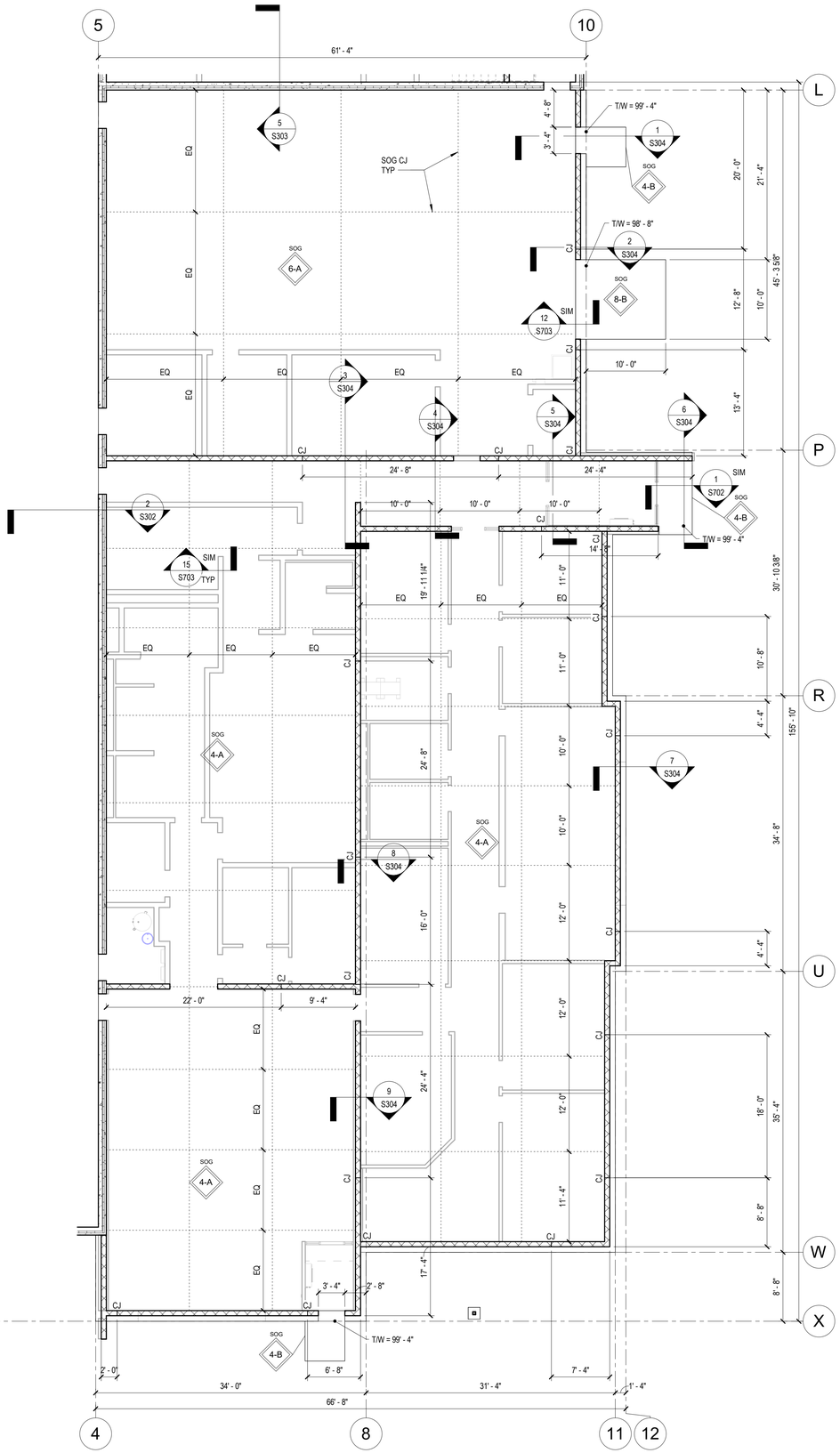
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BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
SLAB PLAN - AREA C

SHEET
S101C



1 S101D SCALE: 1/8" = 1'-0"

SLAB PLAN - AREA D

PLAN NORTH

SLAB PLAN NOTES AND SCHEDULES - AREA D

FIRST FLOOR SLAB PLAN NOTES

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4. SEE S703 FOR TYPICAL SLAB-ON-GRADE DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
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SLAB-ON-GRADE SCHEDULE

MARK	THICKNESS	REINFORCING	VAPOR BARRIER	INSULATION
4-A	4"	4x4 - W2.9xW2.9 WWF	Y	N
4-B	4"	4x4 - W2.9xW2.9 WWF	N	N
6-A	6"	4x4 - W4.5xW4.5 WWF	Y	N
8-A	8"	4x4 - W8.5xW8.5 WWF	Y	N
8-B	8"	4x4 - W8.5xW8.5 WWF	N	N
10-C	10"	4x4 - W8.5xW8.5 WWF	Y	Y

NOTE: SLABS REQUIRING EPOXY-COATED REINFORCEMENT INDICATED ON PLAN.

VEHICLE COLD STORAGE

EQUIPMENT COLD STORAGE

AREA A | AREA B | AREA C | AREA D

MAIN BUILDING - OVERALL

SALT BRINE SHED

KEY PLAN

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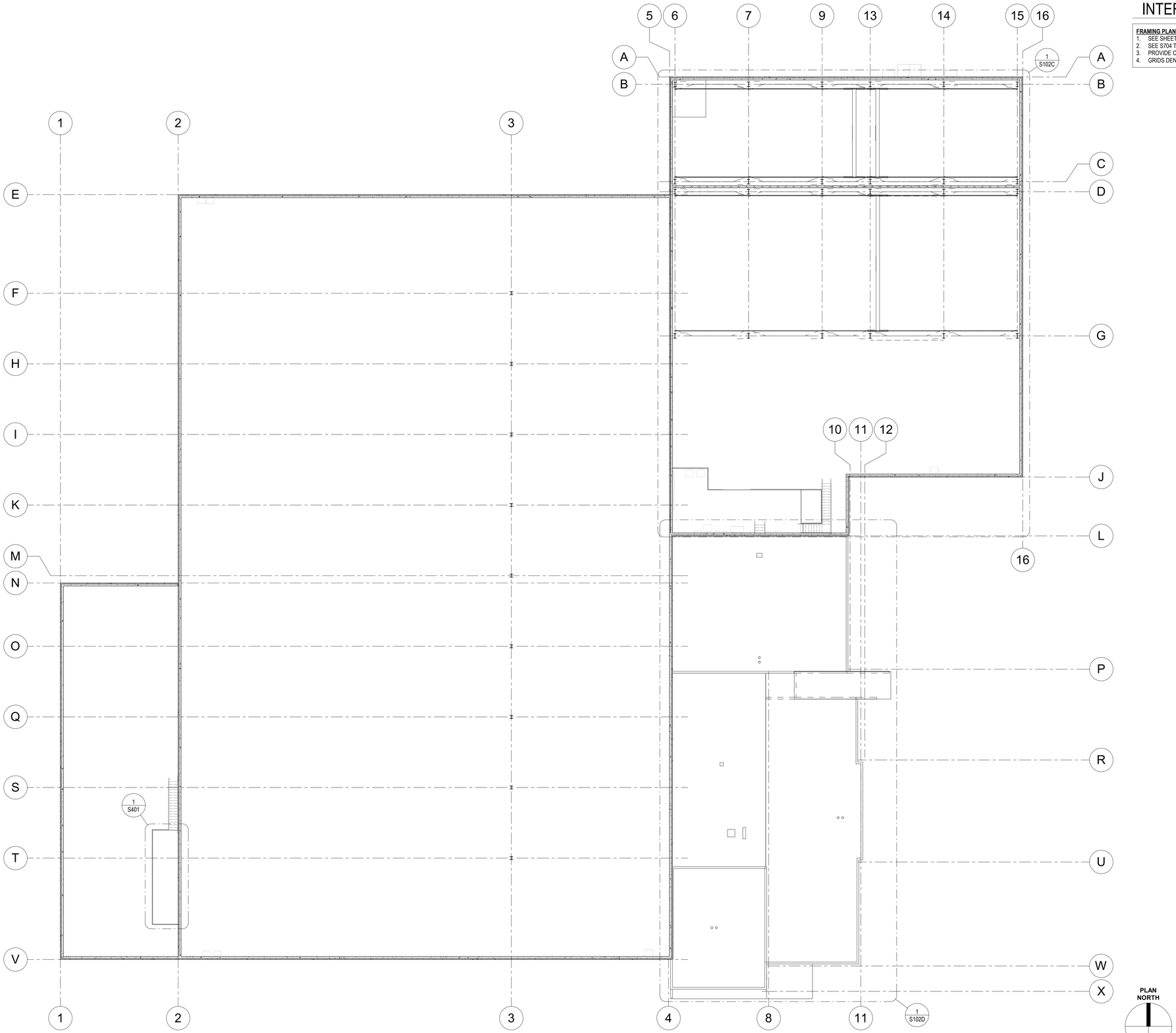
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23-1964.00

DATE
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SHEET TITLE
SLAB PLAN - AREA D

SHEET
S101D



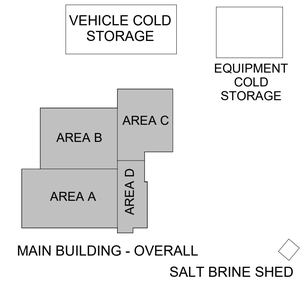
1 S102 INTERMEDIATE FRAMING PLAN - OVERALL

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

INTERMEDIATE FRAMING PLAN NOTES

FRAMING PLAN NOTES

1. SEE SHEETS S001 THRU S003 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. SEE S704 THRU S708 FOR TYPICAL FRAMING DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
3. PROVIDE COLUMN CAP PLATES (3/8" THICK) FOR JOISTS FRAMING INTO COLUMNS, UNO.
4. GRIDS DENOTE THE EXTERIOR FACE OF FOUNDATION WALL & COLUMN CENTERLINES.



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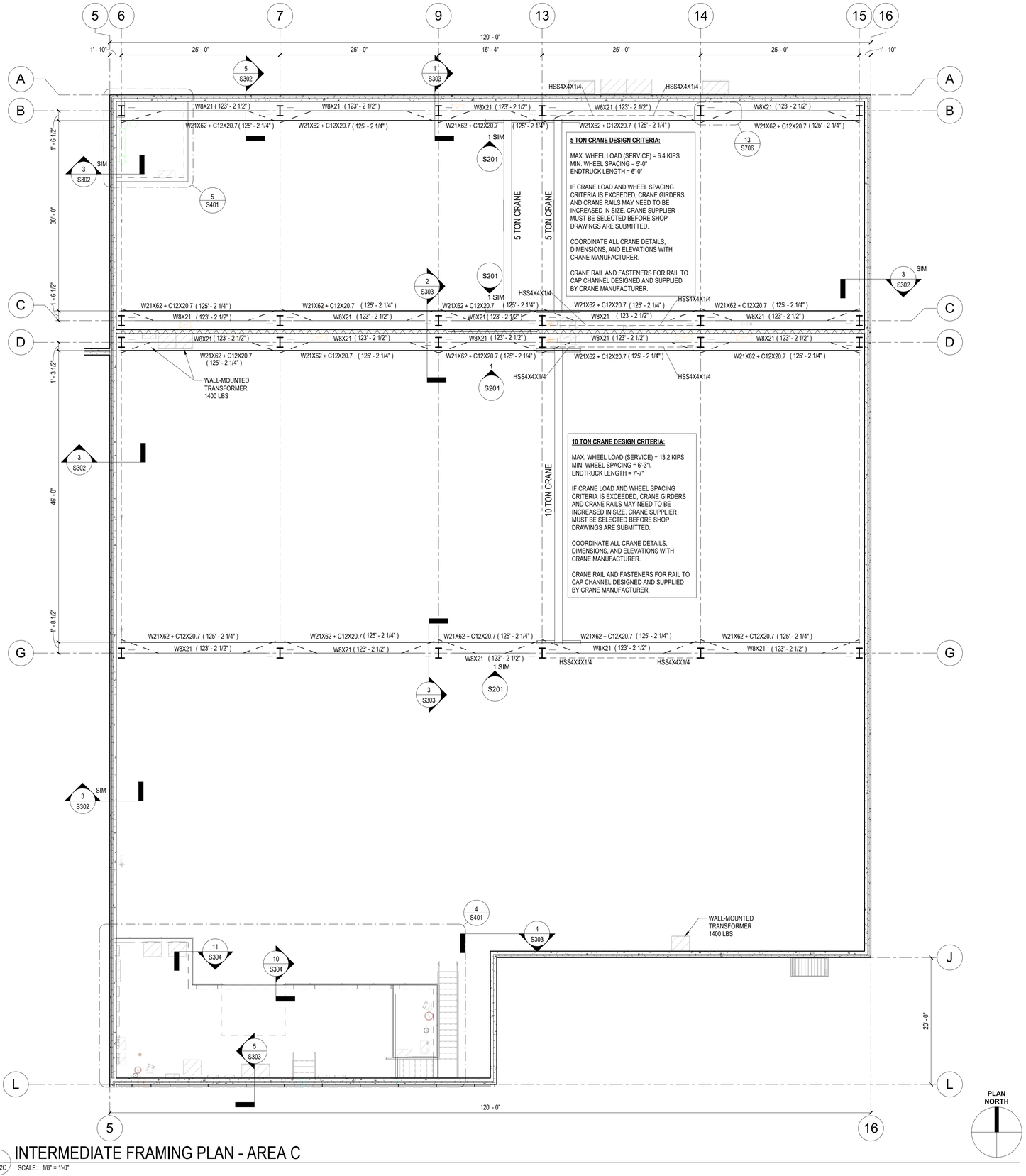
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23-1964.00

DATE
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SHEET TITLE
INTERMEDIATE FRAMING PLAN - OVERALL

SHEET
S102



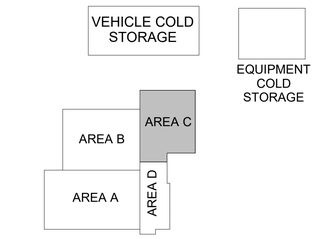
1 S102C INTERMEDIATE FRAMING PLAN - AREA C

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

INTERMEDIATE FRAMING PLAN NOTES

FRAMING PLAN NOTES

1. SEE SHEETS S001 THRU S003 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. SEE S704 THRU S708 FOR TYPICAL FRAMING DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
3. PROVIDE COLUMN CAP PLATES (3/8" THICK) FOR JOISTS FRAMING INTO COLUMNS, UNO.
4. GRIDS DENOTE THE EXTERIOR FACE OF FOUNDATION WALL & COLUMN CENTERLINES.



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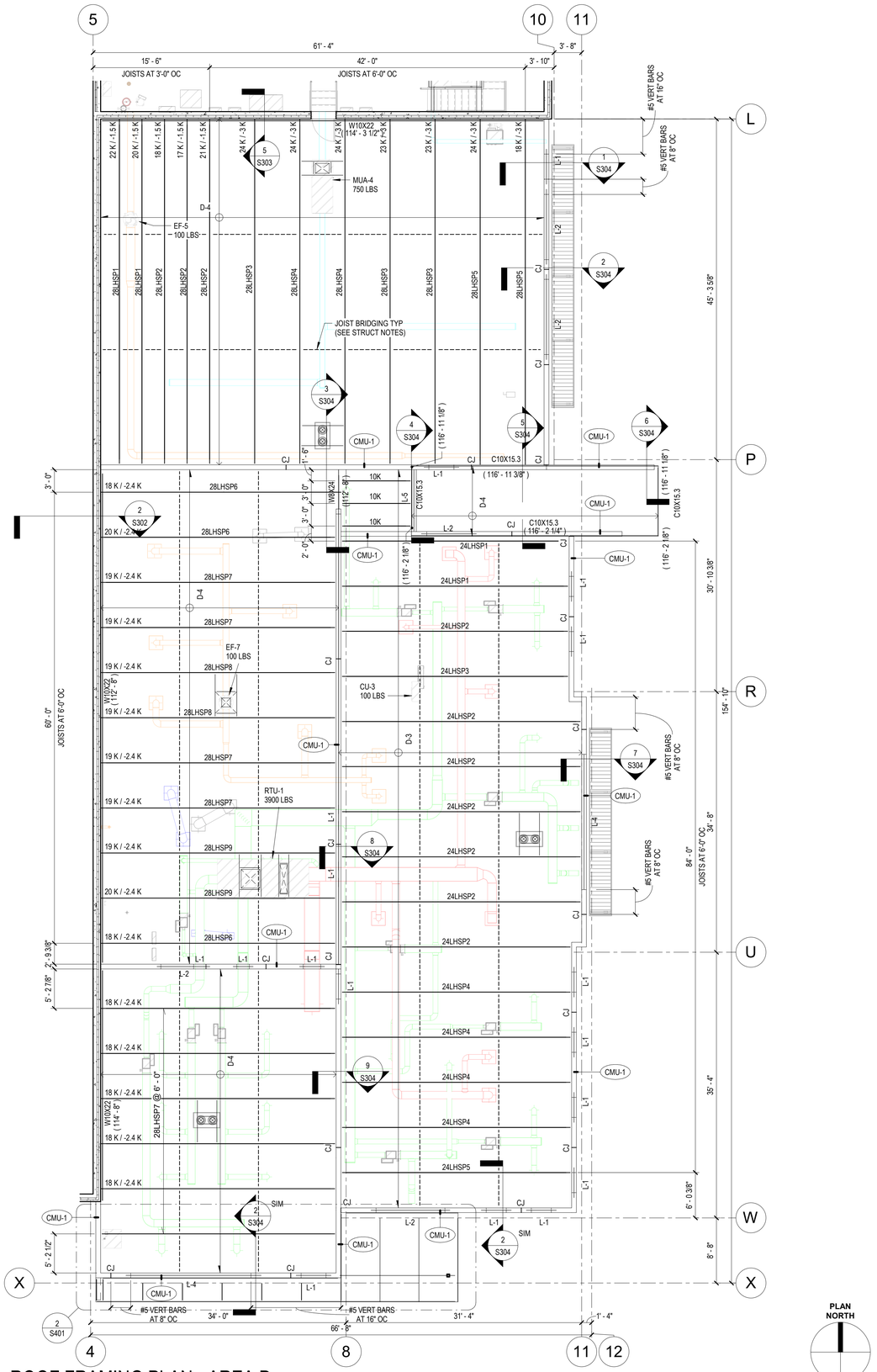
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23-1964.00

DATE
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SHEET TITLE
INTERMEDIATE FRAMING PLAN

SHEET
S102C



1 S102D SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN - AREA D

PLAN NORTH

ROOF FRAMING PLAN NOTES AND SCHEDULES - AREA D

FRAMING PLAN NOTES

1. SEE SHEET S001 THRU S003 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. SEE S704 THRU S708 FOR TYPICAL ROOF FRAMING DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
3. PROVIDE COLUMN CAP PLATES (3/8" THICK) FOR JOISTS FRAMING INTO COLUMNS, UNO.
4. PROVIDE EDGE ANGLES AROUND DECK PERIMETERS. REFERENCE STRUCTURAL SECTIONS.
5. PROVIDE JOIST BRIDGING PER SJI REQUIREMENTS (BRIDGING NOT SHOWN FOR CLARITY).
6. GRIDS DENOTE THE EXTERIOR FACE OF FOUNDATION WALL.
7. JOIST REACTIONS SHOWN ON PLAN ARE STRENGTH LEVEL LRFD FACTORED REACTIONS.
8. SEE S101D FOR CMU CONTROL JOINT LOCATIONS.
9. MECHANICAL EQUIPMENT SHALL NOT BEAR DIRECTLY ON METAL DECK. REFER TO 'STEEL DECK EQUIPMENT SUPPORT' DETAIL.

MASONRY WALL SCHEDULE

MARK	WALL THICKNESS	VERTICAL REINF	HORIZONTAL REINF	BAR PLACEMENT
CMU-1	7 5/8"	#5 AT 4'-0" OC	W1.7 AT 1'-4" OC	CENTERED

NOTE: VERTICAL WALL REINFORCEMENT SPECIFICALLY CALLED OUT ON PLAN SUPERCEDES THE MINIMUM VERTICAL REINFORCEMENT OUTLINED IN THIS SCHEDULE.

MASONRY LINTEL SCHEDULE

MARK	SIZE	LONGIT REINF	STIRRUP REINF	JAMB WIDTH	JAMB REINF	COMMENT
L-1	8"W x 8"D	(2) #5 BOT	N/A	1 CORE	(1) #5 EA CORE	
L-2	8"W x 16"D	(2) #5 BOT	N/A	1 CORE	(1) #5 EA CORE	
L-4	W16X50	N/A	N/A	2 CORES	(1) #5 EA CORE	16" BRG LENGTH
L-5	8"W x 16"D (L-5)	(2) #5 BOT	N/A	1 CORE	(2) #5 EA CORE	

NOTE: LINTEL L-5 HAS SPECIFIC JAMB REINFORCING REQUIREMENTS AT BOTH JAMBS SEE DETAIL 17/S704

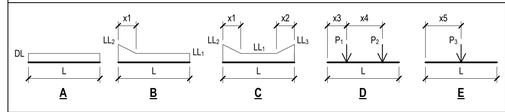
STEEL DECK SCHEDULE

MARK	DECK TYPE	DEPTH	GAUGE	MIN SPANS	FASTENERS		
					PERP SUPPORTS	PARALLEL SUPPORTS	SIDELAP
D-3	1.5B-36	1 1/2"	22	2	HILTI X-HSN24 PAF AT 36/5	HILTI X-HSN24 PAF AT 10" OC	HILTI SLC 01 OR 02 AT 18" OC
D-4	1.5B-36	1 1/2"	19	2	HILTI X-HSN24 PAF AT 36/5	HILTI X-HSN24 PAF AT 10" OC	HILTI SLC 01 OR 02 AT 18" OC

SPECIAL JOIST SCHEDULE

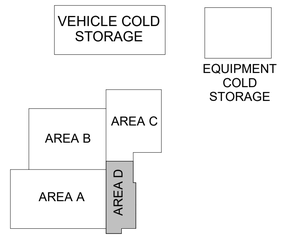
JOIST	LOAD DIAGRAM	DL (KLF)	LL1 (KLF)	LL2 (KLF)	LL3 (KLF)	x1 (FT)	x2 (FT)	P1 (K)	P2 (K)	P3 (K)	COMMENT
24LHSP1	A + B	0.222	0.348	0.126	---	7	---	---	---	---	
24LHSP2	A + B	0.222	0.210	0.126	---	7	---	---	---	---	
24LHSP3	A + B + E	0.222	0.210	0.126	---	7	---	---	---	---	0.050
24LHSP4	A + C	0.222	0.210	0.126	0.198	7	7	---	---	---	
24LHSP5	A + B	0.222	0.312	0.126	0.198	7	7	---	---	---	
28LHSP1	A + C + E	0.111	0.420	0.063	0.315	8	20	---	---	---	0.050
28LHSP2	A + C	0.111	0.420	0.063	0.315	8	20	---	---	---	
28LHSP3	A + C	0.222	0.210	0.126	0.630	8	20	---	---	---	
28LHSP4	A + C + E	0.222	0.210	0.126	0.630	8	20	---	---	---	0.375
28LHSP5	A + C	0.222	0.336	0.126	0.630	8	20	---	---	---	
28LHSP6	A + B	0.222	0.414	0.630	---	20	---	---	---	---	
28LHSP7	A + B	0.222	0.210	0.630	---	20	---	---	---	---	
28LHSP8	A + B + E	0.222	0.210	0.630	---	20	---	---	---	---	0.050
28LHSP9	A + B + E	0.222	0.210	0.630	---	20	---	---	---	---	1.95

LOAD DIAGRAMS:



JOIST SCHEDULE NOTES:

1. "DL" INDICATES DEAD LOAD. "LL" INDICATES LIVE LOAD OR SNOW LOAD.
2. FOR "L" SEE PLANS. COORDINATE "x3", "x4", AND "x5" WITH MECHANICAL AND ARCHITECTURAL.
3. WHERE MORE THAN ONE LOAD DIAGRAM IS SPECIFIED FOR A GIVEN LOAD CASE, LOAD DIAGRAMS SHALL BE SUPERIMPOSED.
4. MAXIMUM DEFLECTION DUE TO LIVE LOADS AND POINT LOADS SHALL BE L/240.
5. JOIST DESIGNER SHALL CHECK TOP CHORD FOR BENDING.
6. SEE STEEL JOIST NOTES ON S001 FOR DESIGN REQUIREMENTS REGARDING NET WIND UPLIFT.
7. SPECIAL JOIST DESIGNER SHALL CONSIDER PONDING LOADS DUE TO RAIN WATER IN JOIST DESIGN.



KEY PLAN

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N5579 STATE HIGHWAY 54, Black River Falls, WI 54615

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	DATE	DESCRIPTION
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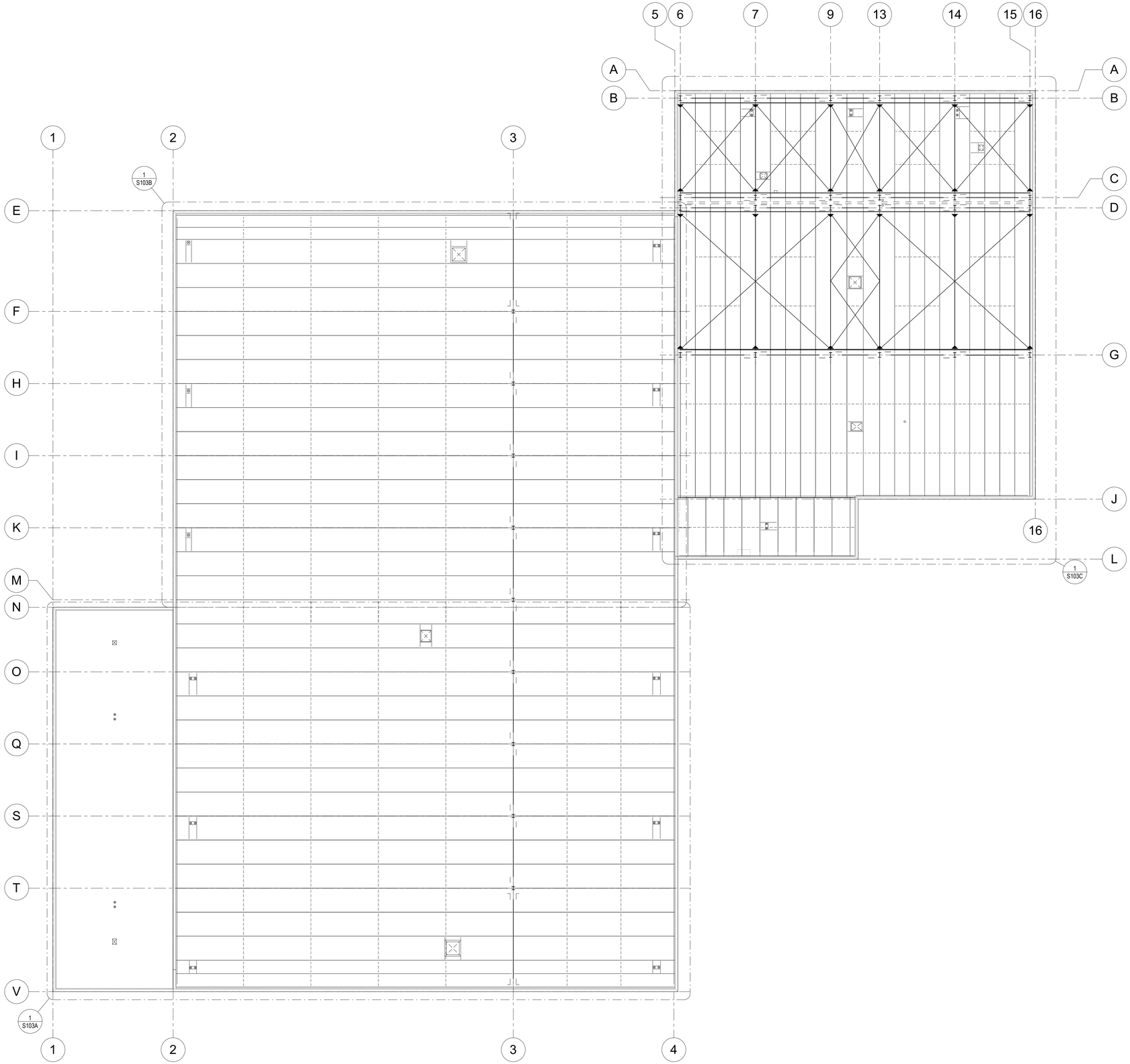
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BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
ROOF FRAMING PLAN - AREA D

SHEET
S102D



1 S103 ROOF FRAMING PLAN - OVERALL

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

ROOF FRAMING PLAN NOTES AND SCHEDULES

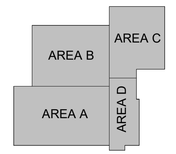
FRAMING PLAN NOTES

1. SEE SHEET S001 THRU S003 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. SEE S704 THRU S708 FOR TYPICAL ROOF FRAMING DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
3. SEE FRAMING PLANS FOR STEEL DECK SCHEDULE.
4. PROVIDE COLUMN CAP PLATES (3/8" THICK) FOR JOISTS FRAMING INTO COLUMNS, UNO.
5. PROVIDE EDGE ANGLES AROUND DECK PERIMETERS. REFERENCE STRUCTURAL SECTIONS.
6. PROVIDE JOIST BRIDGING PER SJI REQUIREMENTS (BRIDGING NOT SHOWN FOR CLARITY).
7. GRIDS DENOTE THE EXTERIOR FACE OF FOUNDATION WALL & COLUMN CENTERLINES.
8. JOIST REACTIONS SHOWN ON PLAN ARE STRENGTH LEVEL LRFD FACTORED REACTIONS.

PLAN NORTH

VEHICLE COLD STORAGE

EQUIPMENT COLD STORAGE



MAIN BUILDING - OVERALL

SALT BRINE SHED

KEY PLAN

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SET TYPE
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BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
ROOF FRAMING PLAN - OVERALL

SHEET
S103

ROOF FRAMING PLAN NOTES AND SCHEDULES - AREA A

FRAMING PLAN NOTES

1. SEE SHEET S001 THRU S003 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. SEE S704 THRU S708 FOR TYPICAL ROOF FRAMING DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
3. PROVIDE COLUMN CAP PLATES (1/2" THICK) FOR JOISTS FRAMING INTO COLUMNS, UNO.
4. PROVIDE EDGE ANGLES AROUND DECK PERIMETERS. REFERENCE STRUCTURAL SECTIONS.
5. PROVIDE JOIST BRIDGING PER SJI REQUIREMENTS (BRIDGING NOT SHOWN FOR CLARITY).
6. GRIDS DENOTE THE EXTERIOR FACE OF FOUNDATION WALL & COLUMN CENTERLINE.
7. JOIST REACTIONS SHOWN ON PLAN ARE STRENGTH LEVEL LRFD FACTORED REACTIONS.
8. AT RADIANT HEATERS, DESIGN JOISTS FOR 100 LBS AT EACH JOIST TO ALLOW FOR FLEXIBLE FIELD PLACEMENT.
9. MECHANICAL EQUIPMENT SHALL NOT BEAR DIRECTLY ON METAL DECK. REFER TO 'STEEL DECK EQUIPMENT SUPPORT' DETAIL.

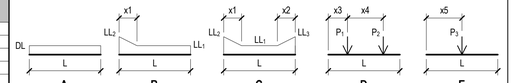
STEEL DECK SCHEDULE

MARK	DECK TYPE	DEPTH	GAUGE	MIN SPANS	FASTENERS		
					PERP SUPPORTS	PARALLEL SUPPORTS	SIDELAP
D-1	3NL-32	3"	22	2	HILTI X-HSN24 PAF AT 32/5	HILTI X-HSN24 PAF AT 8" OC	HILTI SLC 01 OR 02 AT 12" OC
D-2	3NL-32	3"	19	2	HILTI X-HSN24 PAF AT 32/5	HILTI X-HSN24 PAF AT 8" OC	HILTI SLC 01 OR 02 AT 12" OC
D-4	1.5B-36	1 1/2"	19	2	HILTI X-HSN24 PAF AT 36/5	HILTI X-HSN24 PAF AT 10" OC	HILTI SLC 01 OR 02 AT 18" OC

SPECIAL JOIST SCHEDULE

JOIST	LOAD DIAGRAM	DL (KLF)	LL1 (KLF)	LL2 (KLF)	LL3 (KLF)	x1 (FT)	x2 (FT)	P1 (K)	P2 (K)	P3 (K)	COMMENT
36LHSP1	A + B + E	0.104	0.315	0.158	---	14	---	---	---	0.100	
36LHSP2	A + B + E	0.150	0.456	0.230	---	14	---	---	---	0.100	
36LHSP3	A + B + D	0.184	0.280	0.280	---	14	---	0.100	0.150	---	
68DLHSP1	A + B + D	0.058	0.175	0.088	---	14	---	0.100	0.100	---	
68DLHSP2	A + B + D	0.104	0.315	0.158	---	14	---	0.100	0.100	---	
68DLHSP3	A + B + D + E	0.150	0.456	0.230	---	14	---	0.100	0.100	0.400	
68DLHSP4	A + B + D	0.184	0.280	0.280	---	14	---	0.100	0.100	---	
68DLHSP5	A + B + D + E	0.184	0.280	0.280	---	14	---	0.100	0.100	0.150	
68DLHSP6	A + B + D + E	0.184	0.280	0.280	---	14	---	0.100	0.100	2.40	

LOAD DIAGRAMS:

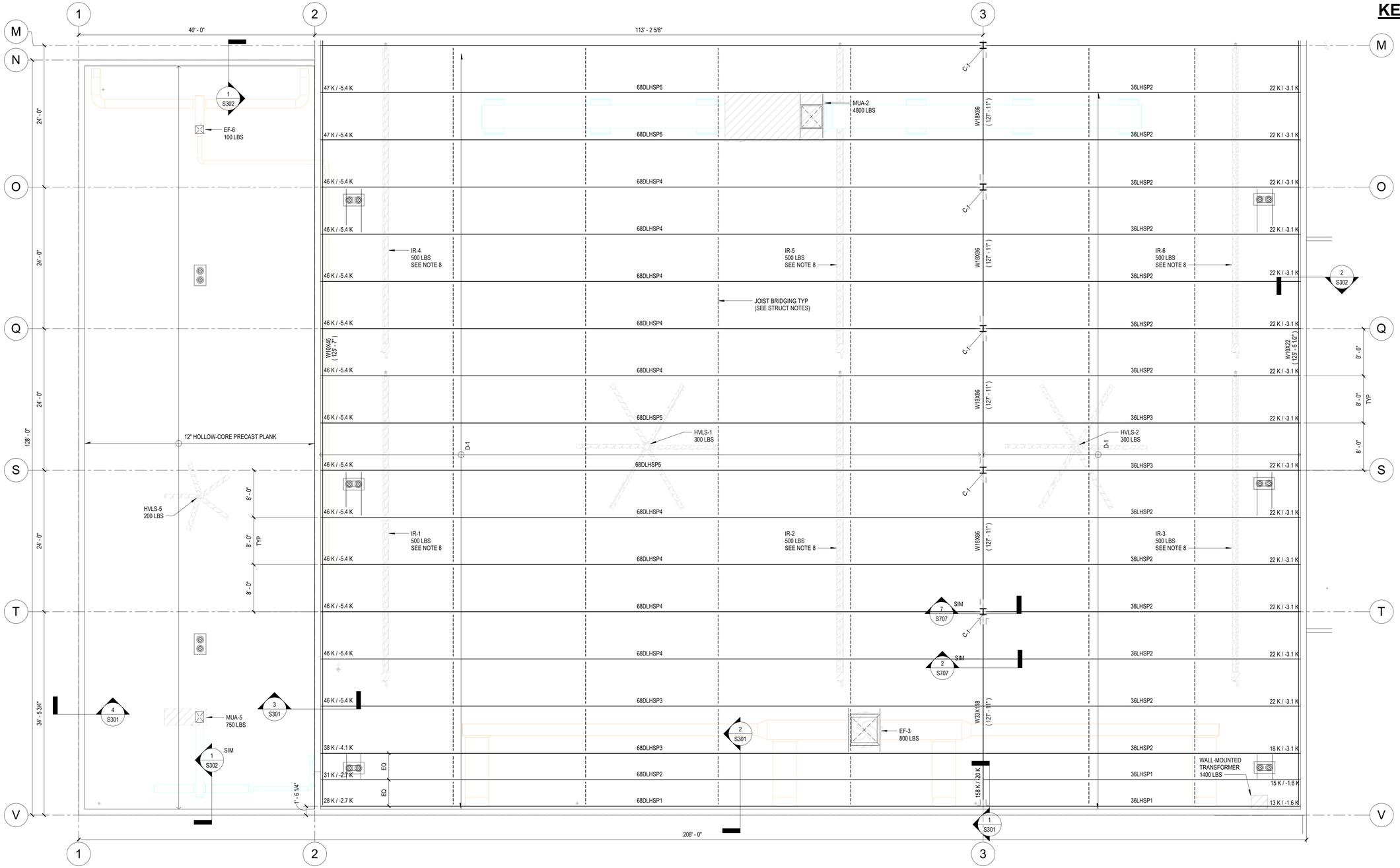


JOIST SCHEDULE NOTES:

1. "DL" INDICATES DEAD LOAD. "LL" INDICATES LIVE LOAD OR SNOW LOAD.
2. FOR "L" SEE PLANS. COORDINATE "x3", "x4", AND "x5" WITH MECHANICAL AND ARCHITECTURAL.
3. WHERE MORE THAN ONE LOAD DIAGRAM IS SPECIFIED FOR A GIVEN LOAD CASE, LOAD DIAGRAMS SHALL BE SUPERIMPOSED.
4. MAXIMUM DEFLECTION DUE TO LIVE LOADS AND POINT LOADS SHALL BE L/240.
5. JOIST DESIGNER SHALL CHECK TOP CHORD FOR BENDING.
6. SEE STEEL JOIST NOTES ON S001 FOR DESIGN REQUIREMENTS REGARDING NET WIND UPLIFT.
7. SPECIAL JOIST DESIGNER SHALL CONSIDER PONDING LOADS DUE TO RAIN WATER IN JOIST DESIGN.

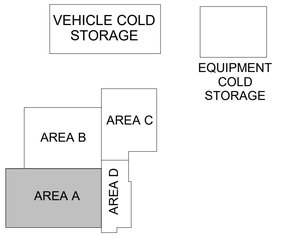
COLUMN SCHEDULE

MARK	SECTION	BASE PLATE
C-1	W12X65	BP-1



1 S103A SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN - AREA A



KEY PLAN

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SET TYPE
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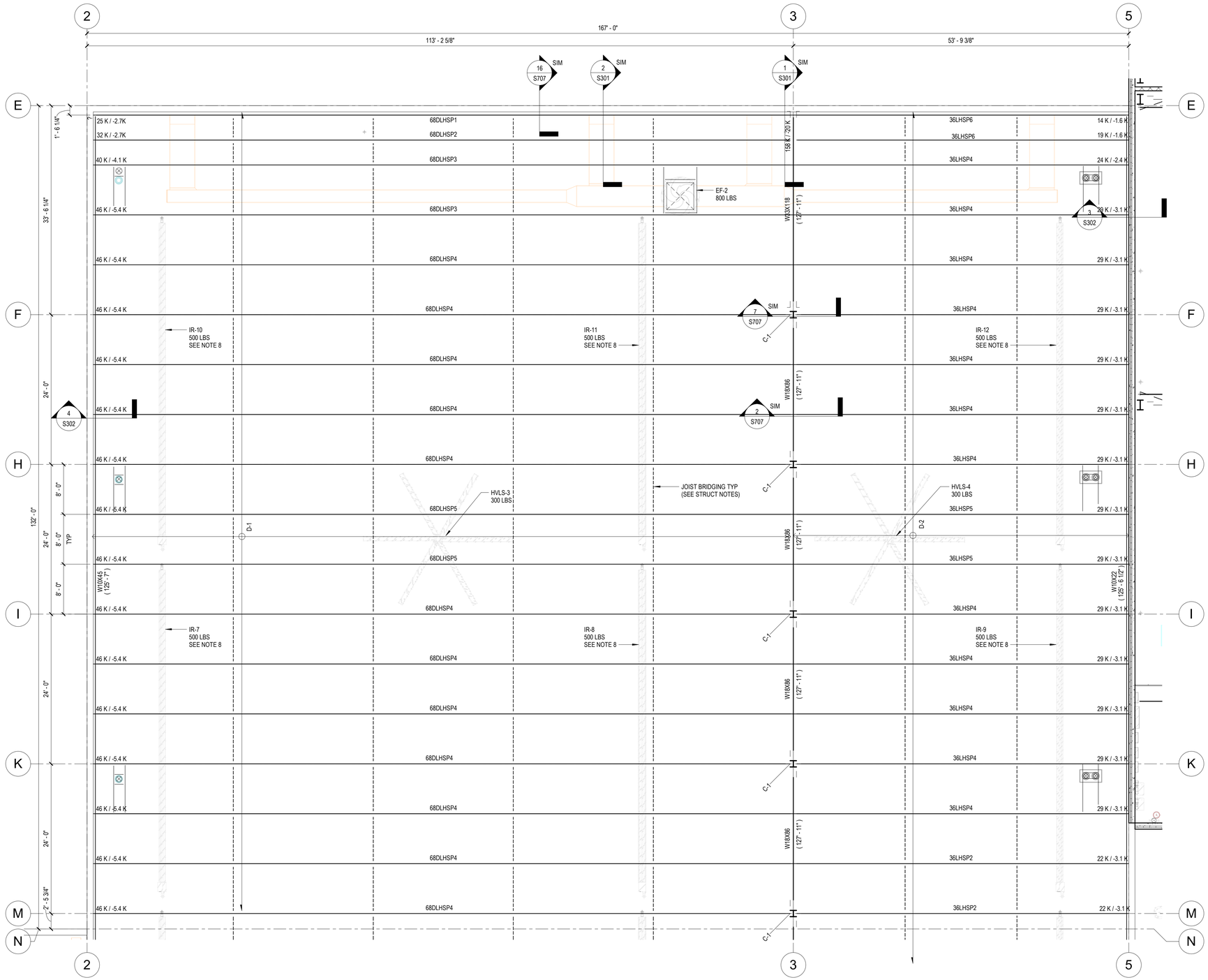
BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
ROOF FRAMING PLAN - AREA A

SHEET
S103A

PLAN NORTH



1 S103B ROOF FRAMING PLAN - AREA B

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

ROOF FRAMING PLAN NOTES AND SCHEDULES - AREA B

FRAMING PLAN NOTES

1. SEE SHEET S001 THRU S003 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. SEE S704 THRU S708 FOR TYPICAL ROOF FRAMING DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
3. PROVIDE COLUMN CAP PLATES (3/8" THICK) FOR JOISTS FRAMING INTO COLUMNS, UNO.
4. PROVIDE EDGE ANGLES AROUND DECK PERIMETERS. REFERENCE STRUCTURAL SECTIONS.
5. PROVIDE JOIST BRIDGING PER SJI REQUIREMENTS (BRIDGING NOT SHOWN FOR CLARITY).
6. GRIDS DENOTE THE EXTERIOR FACE OF FOUNDATION WALL & COLUMN CENTERLINE.
7. JOIST REACTIONS SHOWN ON PLAN ARE STRENGTH LEVEL LRFD FACTORED REACTIONS.
8. AT RADIANT HEATERS, DESIGN JOISTS FOR 100 LBS AT EACH JOIST TO ALLOW FOR FLEXIBLE FIELD PLACEMENT.
9. MECHANICAL EQUIPMENT SHALL NOT BEAR DIRECTLY ON METAL DECK. REFER TO 'STEEL DECK EQUIPMENT SUPPORT' DETAIL.

COLUMN SCHEDULE

MARK	SECTION	BASE PLATE
C-1	W12X65	BP-1
C-2	W18X97	BP-2

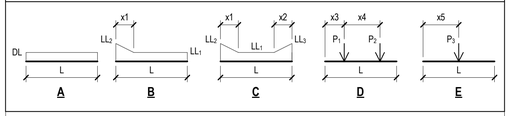
STEEL DECK SCHEDULE

MARK	DECK TYPE	DEPTH	GAUGE	MIN SPANS	FASTENERS		
					PERP SUPPORTS	PARALLEL SUPPORTS	SIDELAP
D-1	3NL-32	3"	22	2	HILTI X-HSN24 PAF AT 32/5	HILTI X-HSN24 PAF AT 8" OC	HILTI SLC 01 OR 02 AT 12" OC
D-2	3NL-32	3"	19	2	HILTI X-HSN24 PAF AT 32/5	HILTI X-HSN24 PAF AT 8" OC	HILTI SLC 01 OR 02 AT 12" OC
D-4	1.5B-36	1 1/2"	19	2	HILTI X-HSN24 PAF AT 36/5	HILTI X-HSN24 PAF AT 10" OC	HILTI SLC 01 OR 02 AT 18" OC

SPECIAL JOIST SCHEDULE

JOIST	LOAD DIAGRAM	DL (KLF)	LL1 (KLF)	LL2 (KLF)	LL3 (KLF)	x1 (FT)	x2 (FT)	P1 (K)	P2 (K)	P3 (K)	COMMENT
36LHSP2	A + B + E	0.150	0.456	0.230	---	14	---	---	---	0.100	
36LHSP4	A + B + E	0.184	0.280	0.720	---	18	---	---	---	0.100	
36LHSP5	A + B + D	0.184	0.280	0.720	---	18	---	0.100	0.150	---	
36LHSP6	A + B + E	0.104	0.315	0.720	---	18	---	---	---	0.100	
68DLHSP1	A + B + D	0.058	0.175	0.088	---	14	---	0.100	0.100	---	
68DLHSP2	A + B + D	0.104	0.315	0.158	---	14	---	0.100	0.100	---	
68DLHSP3	A + B + D + E	0.150	0.456	0.230	---	14	---	0.100	0.100	0.400	
68DLHSP4	A + B + D	0.184	0.280	0.280	---	14	---	0.100	0.100	---	
68DLHSP5	A + B + D + E	0.184	0.280	0.280	---	14	---	0.100	0.100	0.150	

LOAD DIAGRAMS:

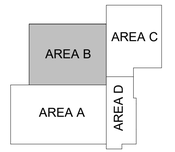


JOIST SCHEDULE NOTES:

1. "DL" INDICATES DEAD LOAD. "LL" INDICATES LIVE LOAD OR SNOW LOAD.
2. FOR "L" SEE PLANS. COORDINATE "x3", "x4", AND "x5" WITH MECHANICAL AND ARCHITECTURAL.
3. WHERE MORE THAN ONE LOAD DIAGRAM IS SPECIFIED FOR A GIVEN LOAD CASE, LOAD DIAGRAMS SHALL BE SUPERIMPOSED.
4. MAXIMUM DEFLECTION DUE TO LIVE LOADS AND POINT LOADS SHALL BE L/240.
5. JOIST DESIGNER SHALL CHECK TOP CHORD FOR BENDING.
6. SEE STEEL JOIST NOTES ON S001 FOR DESIGN REQUIREMENTS REGARDING NET WIND UPLIFT.
7. SPECIAL JOIST DESIGNER SHALL CONSIDER PONDING LOADS DUE TO RAIN WATER IN JOIST DESIGN.

VEHICLE COLD STORAGE

EQUIPMENT COLD STORAGE



MAIN BUILDING - OVERALL

SALT BRINE SHED

KEY PLAN

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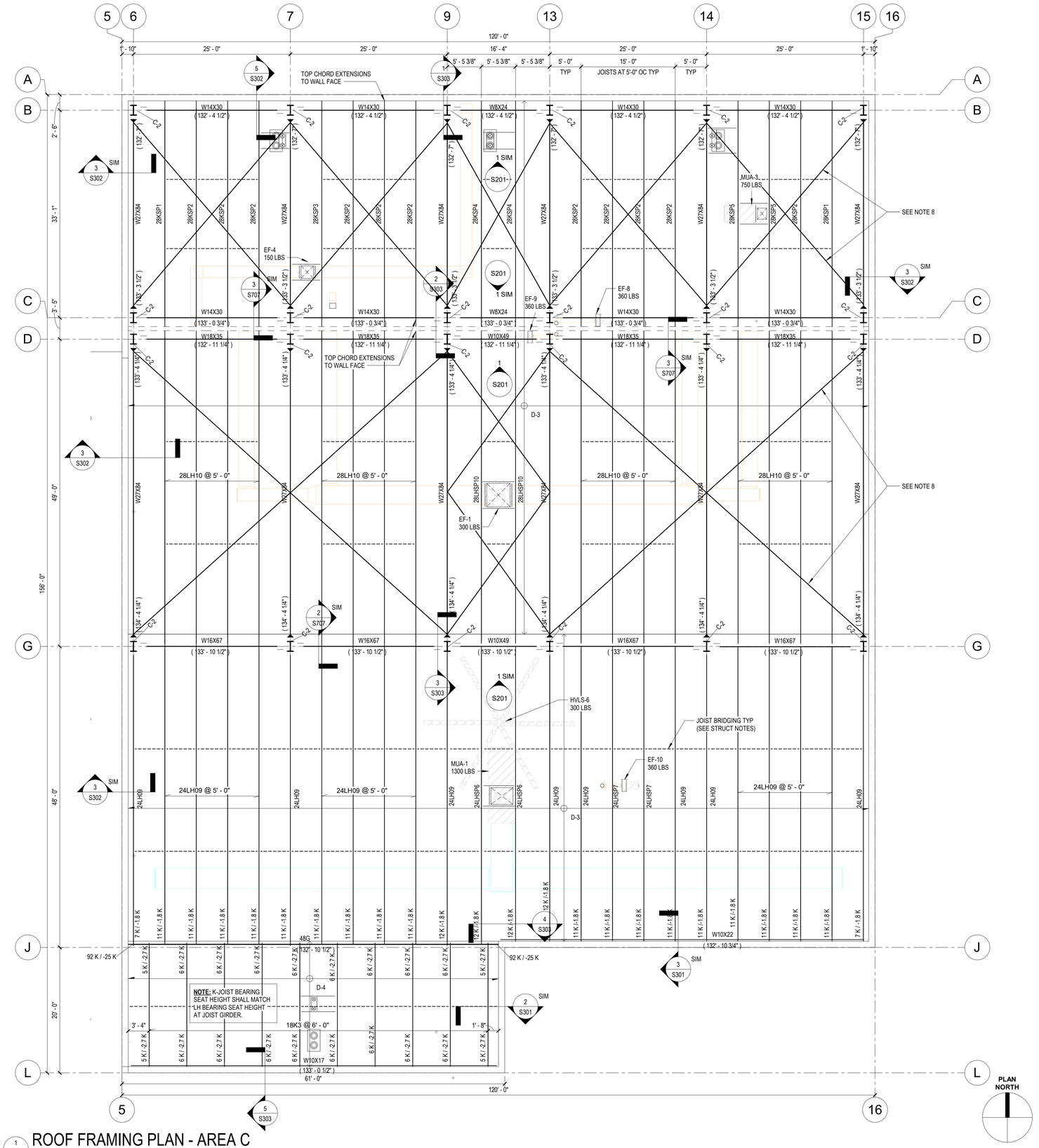
SET TYPE
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BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
ROOF FRAMING PLAN - AREA B

SHEET
S103B



1 S103C ROOF FRAMING PLAN - AREA C

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

ROOF FRAMING PLAN NOTES AND SCHEDULES - AREA C

FRAMING PLAN NOTES

1. SEE SHEET S001 THRU S003 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. SEE S704 THRU S708 FOR TYPICAL ROOF FRAMING DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
3. PROVIDE COLUMN CAP PLATES (3/8" THICK) FOR JOISTS FRAMING INTO COLUMNS, UNO.
4. PROVIDE EDGE ANGLES AROUND DECK PERIMETERS. REFERENCE STRUCTURAL SECTIONS.
5. PROVIDE JOIST BRIDGING PER SJI REQUIREMENTS,.
6. GRIDS DENOTE THE EXTERIOR FACE OF FOUNDATION WALL & COLUMN CENTERLINE.
7. JOIST REACTIONS SHOWN ON PLAN ARE STRENGTH LEVEL LRFD FACTORED REACTIONS.
8. 1/4" x 4" A36 STEEL FLAT STRAPPING LAID FLAT ON, AND WELDED TO, EACH TOP OF JOIST OR BEAM WITH 3/16" FILLET WELD 3" BOTH SIDES.
9. MECHANICAL EQUIPMENT SHALL NOT BEAR DIRECTLY ON METAL DECK. REFER TO 'STEEL DECK EQUIPMENT SUPPORT' DETAIL.

COLUMN SCHEDULE

MARK	SECTION	BASE PLATE
C-2	W18X97	BP-2

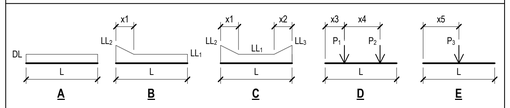
STEEL DECK SCHEDULE

MARK	DECK TYPE	DEPTH	GAUGE	MIN SPANS	FASTENERS		
					PERP SUPPORTS	PARALLEL SUPPORTS	SIDELAP
D-2	3NL-32	3"	19	2	HILTI X-HSN24 PAF AT 32/5	HILTI X-HSN24 PAF AT 8" OC	HILTI SLC 01 OR 02 AT 12" OC
D-3	1.5B-36	1 1/2"	22	2	HILTI X-HSN24 PAF AT 36/5	HILTI X-HSN24 PAF AT 10" OC	HILTI SLC 01 OR 02 AT 18" OC
D-4	1.5B-36	1 1/2"	19	2	HILTI X-HSN24 PAF AT 36/5	HILTI X-HSN24 PAF AT 10" OC	HILTI SLC 01 OR 02 AT 18" OC

SPECIAL JOIST SCHEDULE

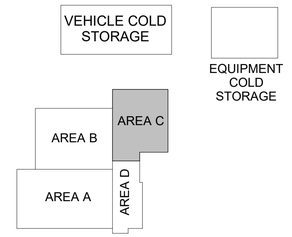
JOIST	LOAD DIAGRAM	DL (KLF)	LL1 (KLF)	LL2 (KLF)	LL3 (KLF)	x1 (FT)	x2 (FT)	P1 (K)	P2 (K)	P3 (K)	COMMENT
24LHSP6	A + B + D	0.127	0.193	---	---	---	---	0.150	0.650	---	
24LHSP7	A + B + E	0.115	0.175	---	---	---	---	---	---	0.180	
28KSP1	A + B	0.115	0.310	0.135	---	11	---	---	---	---	
28KSP2	A + B	0.115	0.175	0.135	---	11	---	---	---	---	
28KSP3	A + B + E	0.115	0.175	0.135	---	11	---	---	---	0.075	
28KSP4	A + B	0.127	0.193	0.149	---	11	---	---	---	---	
28KSP5	A + B + E	0.115	0.175	0.135	---	11	---	---	---	0.375	
28LHSP10	A + B + E	0.127	0.193	---	---	---	---	---	---	0.150	

LOAD DIAGRAMS:



JOIST SCHEDULE NOTES:

1. "DL" INDICATES DEAD LOAD. "LL" INDICATES LIVE LOAD OR SNOW LOAD.
2. FOR "L" SEE PLANS. COORDINATE "x3", "x4", AND "x5" WITH MECHANICAL AND ARCHITECTURAL.
3. WHERE MORE THAN ONE LOAD DIAGRAM IS SPECIFIED FOR A GIVEN LOAD CASE, LOAD DIAGRAMS SHALL BE SUPERIMPOSED.
4. MAXIMUM DEFLECTION DUE TO LIVE LOADS AND POINT LOADS SHALL BE L/240.
5. JOIST DESIGNER SHALL CHECK TOP CHORD FOR BENDING.
6. SEE STEEL JOIST NOTES ON S001 FOR DESIGN REQUIREMENTS REGARDING NET WIND UPLIFT.
7. SPECIAL JOIST DESIGNER SHALL CONSIDER PONDING LOADS DUE TO RAIN WATER IN JOIST DESIGN.



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SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
ROOF FRAMING PLAN - AREA C

SHEET
S103C

FOUNDATION PLAN NOTES AND SCHEDULES - VEHICLE COLD STORAGE

FOUNDATION PLAN NOTES

1. SEE SHEET S001, S002, & S004 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. ALL GRIDS DENOTE THE EXTERIOR FACE OF FOUNDATION WALL OR COLUMN CENTERLINE.
3. TOP OF FOUNDATION WALL ELEVATION IS 99'-0", UNO.
4. TOP OF PIER ELEVATION IS 100'-0", UNO.
5. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR TO CONFORM WITH THOSE SHOWN ON THE ARCH DRAWINGS. VERIFY ALL STOOP AND DOOR LOCATIONS AND SIZES WITH ARCH DRAWINGS PRIOR TO PLACING CONCRETE.
6. SEE ARCHITECTURAL DRAWINGS FOR FLOOR PITCHES, DEPRESSIONS, ETC.
7. SEE S709 FOR TYPICAL FOUNDATION DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
8. PROVIDE RIGID INSULATION AT EXTERIOR FOUNDATION WALLS. SEE ARCH FOR DETAILS.
9. SEE CIVIL DRAWINGS FOR EXTERIOR CONCRETE FLATWORK NOT SHOWN OR DETAILED ON THIS SHEET.
10. SEE PEMB DRAWINGS FOR BUILDING BASE PLATE DETAILS.

FOUNDATION WALL SCHEDULE

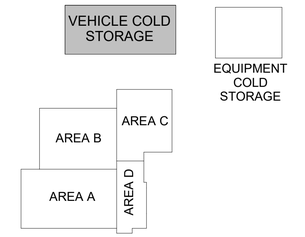
MARK	WIDTH (W)	VERTICAL REINF	HORIZONTAL REINF
FW-1	8"	#5 AT 1'-2" OC (CENTERED)	#5 AT 1'-6" OC (CENTERED)

FOOTING SCHEDULE

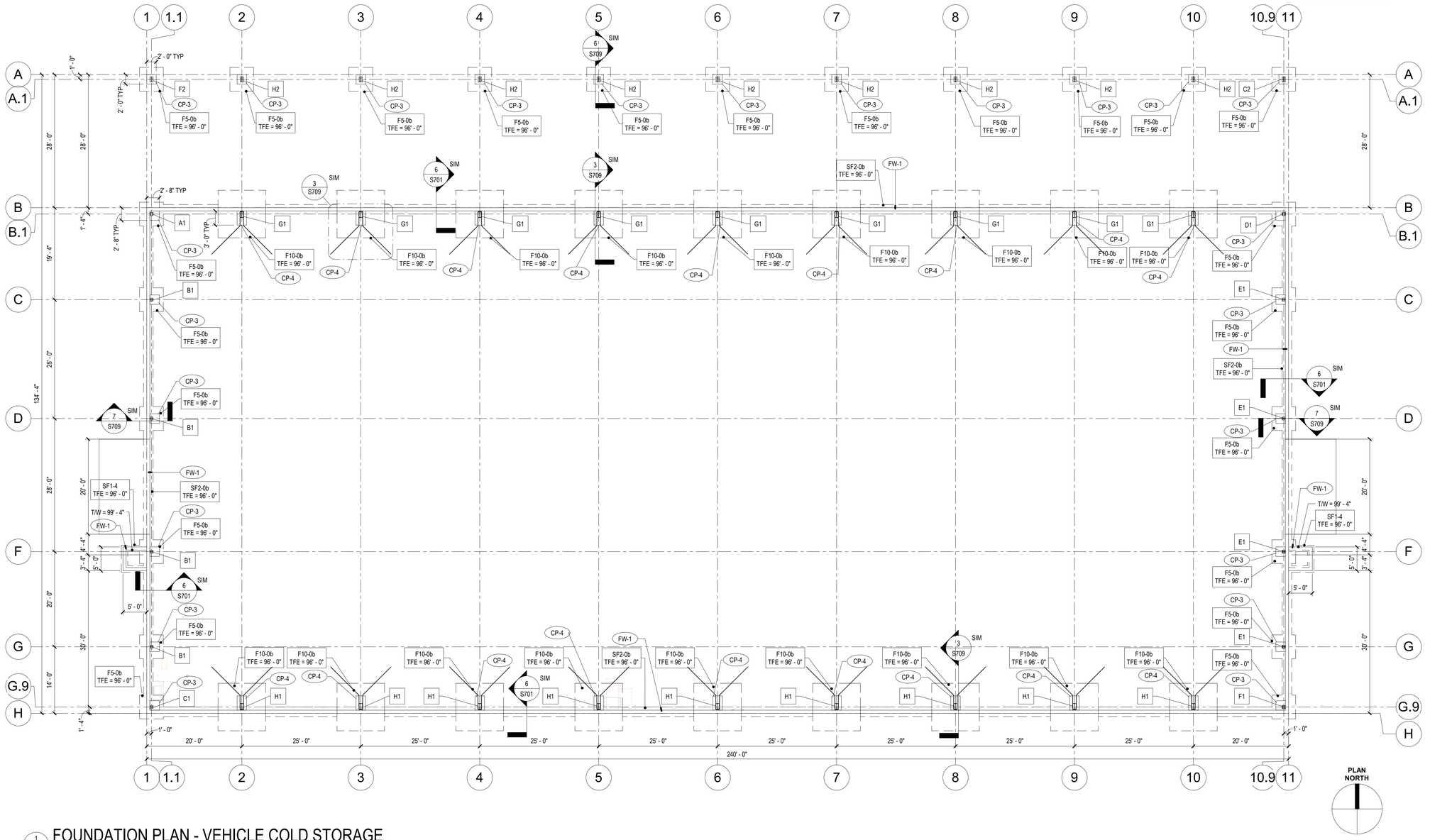
MARK	FOOTING TYPE	B	W	D	LONGIT REINF	TRANSV REINF
F5-0b	COLUMN FTG	5' - 0"	5' - 0"	1' - 0"	(5) #6 T&B	(5) #6 T&B
F10-0b	COLUMN FTG	10' - 0"	10' - 0"	1' - 8"	(11) #6 T&B	(11) #6 T&B
SF1-4	STRIP FTG	1' - 4"	<varies>	1' - 0"	(2) #5	#5 AT 1'-2" OC
SF2-0b	STRIP FTG	2' - 0"	<varies>	1' - 0"	(4) #4	#4 AT 9" OC

CONCRETE PIER SCHEDULE

MARK	b x w	VERTICAL REINF	TIES
CP-3	24" x 24"	(8) #6	#4 AT 1'-0" OC & (3) #4 IN TOP 5"
CP-4	36" x 24"	(12) #6	#4 AT 1'-0" OC & (3) #4 IN TOP 5"



KEY PLAN



1 S110 FOUNDATION PLAN - VEHICLE COLD STORAGE

SCALE: 3/32" = 1'-0"

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BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
FOUNDATION PLAN - VEHICLE COLD STORAGE

SHEET
S110

SLAB PLAN NOTES AND SCHEDULES - VEHICLE COLD STORAGE

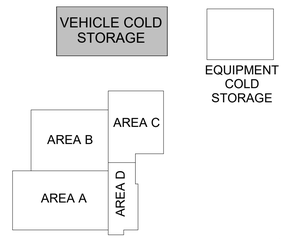
FIRST FLOOR SLAB PLAN NOTES

1. SEE SHEET S001, S002, & S004 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. FIRST FLOOR ELEVATION IS 100'-0", UNO.
3. SEE ARCHITECTURAL DRAWINGS FOR FLOOR PITCHES, DEPRESSIONS, ETC.
4. SEE S703 FOR TYPICAL SLAB-ON-GRADE DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
5. CONTROL JOINT LAYOUT SHOWN IS CONCEPTUAL. CONTRACTOR MAY ADJUST JOINT LOCATIONS BASED ON REQUIREMENTS LISTED IN THE STRUCTURAL NOTES AND ON SHEET S703.
6. PROVIDE DIAGONAL REINFORCING BARS IN SOG AT RE-ENTRANT CORNERS THAT DO NOT HAVE CONTROL OR CONSTRUCTION JOINTS. SEE 'SOG AT RE-ENTRANT CORNERS' DETAIL.
7. PROVIDE THICKENED SOG AT BASE OF STAIR STRINGERS AND POSTS. COORDINATE LOCATIONS WITH STAIR DESIGNER.
8. CHAMFER CONCRETE EDGE AROUND FULL TOP PERIMETER. SEE ARCH DRAWINGS AND SPECIFICATIONS FOR FINISHED CONCRETE APPEARANCE.

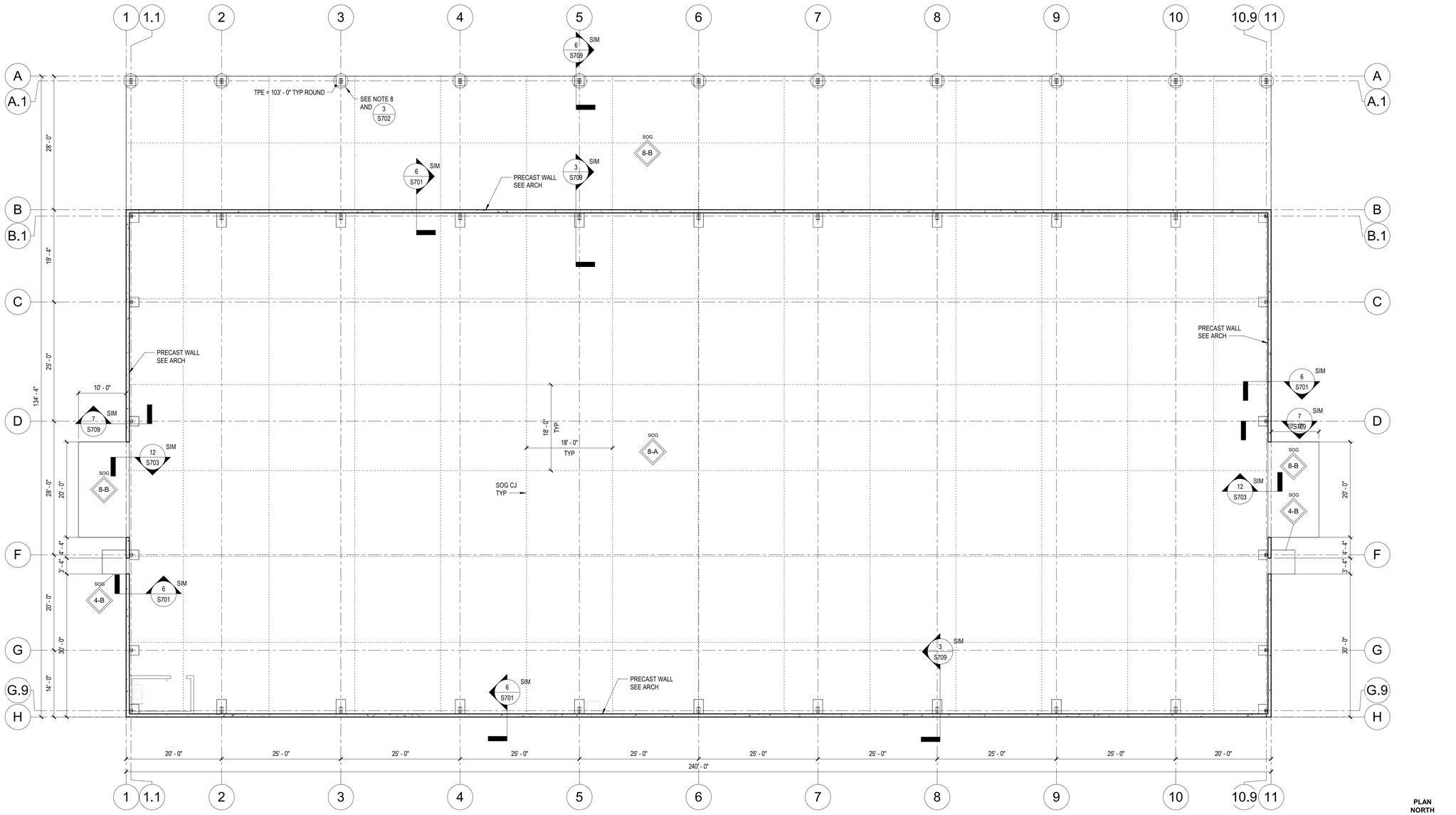
SLAB-ON-GRADE SCHEDULE

MARK	THICKNESS	REINFORCING	VAPOR BARRIER	INSULATION
4-B	4"	4x4 - W2.9xW2.9 WWF	N	N
8-A	8"	4x4 - W8.5xW8.5 WWF	Y	N
8-B	8"	4x4 - W8.5xW8.5 WWF	N	N

NOTE: SLABS REQUIRING EPOXY-COATED REINFORCEMENT INDICATED ON PLAN.



KEY PLAN



PLAN NORTH

1 S111 SLAB PLAN - VEHICLE COLD STORAGE

SCALE: 3/32" = 1'-0"

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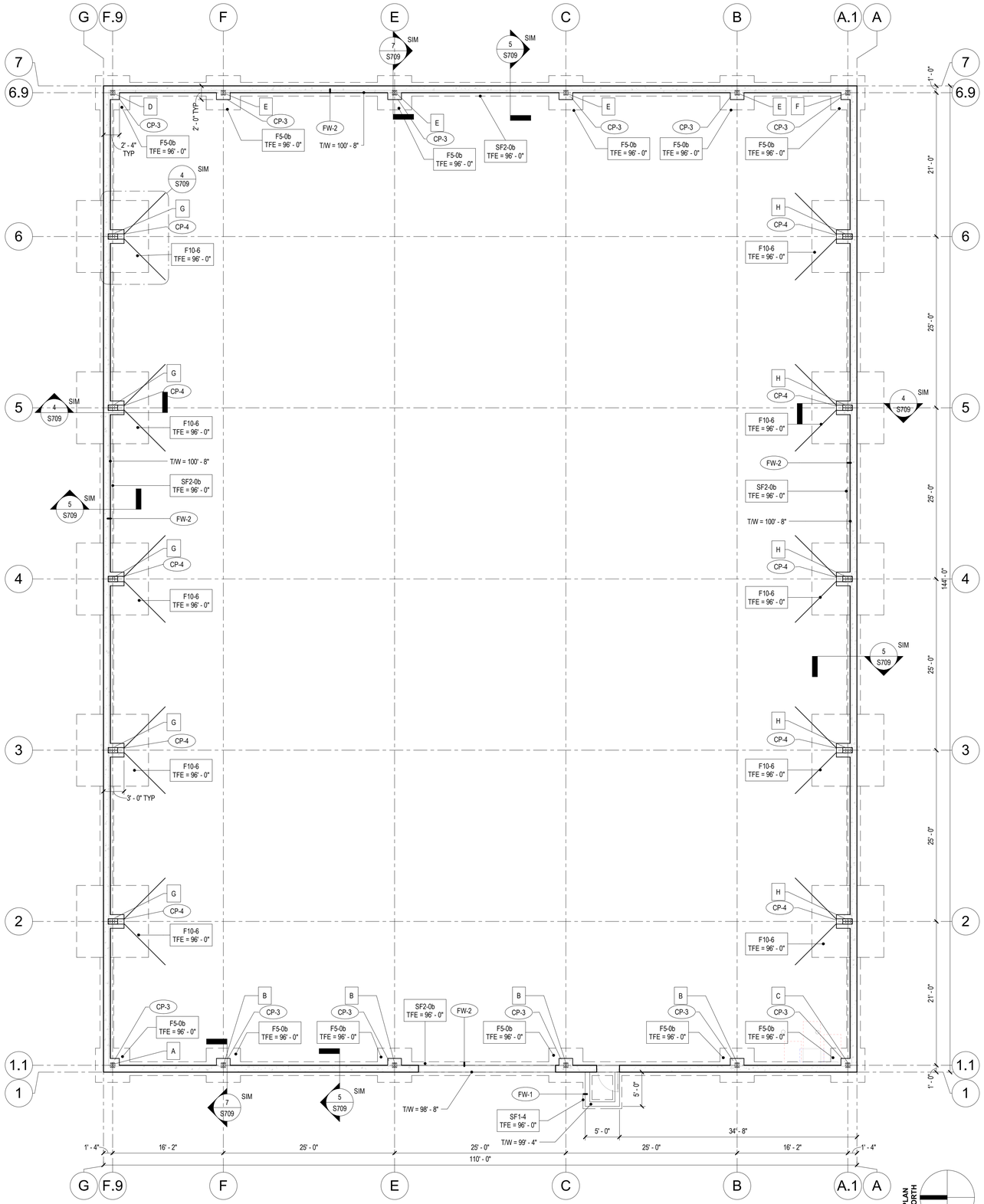
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

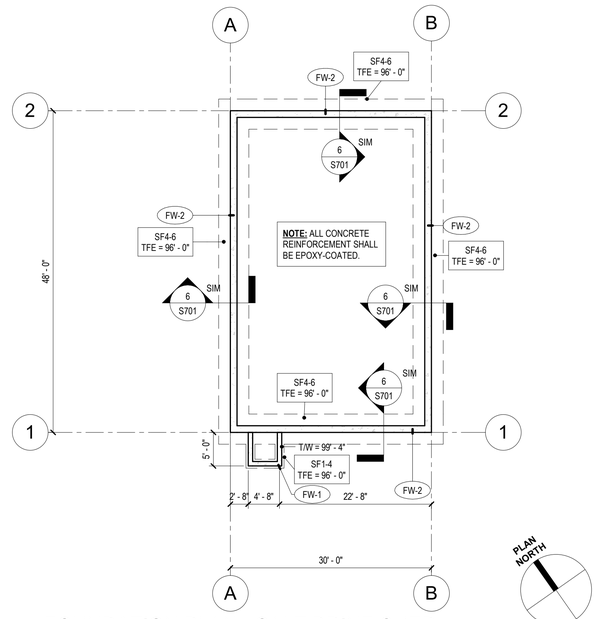
SHEET TITLE
SLAB PLAN - VEHICLE COLD STORAGE

SHEET
S111



1 S120 FOUNDATION PLAN - EQUIPMENT COLD STORAGE

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



2 S120 FOUNDATION PLAN - SALT BRINE SHED

SCALE: 3/32" = 1'-0"

FOUNDATION PLAN NOTES AND SCHEDULES - EQUIPMENT COLD STORAGE

FOUNDATION PLAN NOTES

1. SEE SHEET S001, S002, & S004 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. ALL GRIDS DENOTE THE EXTERIOR FACE OF FOUNDATION WALL OR COLUMN CENTERLINE.
3. TOP OF FOUNDATION WALL ELEVATION IS 100'-8", UNO.
4. TOP OF PIER ELEVATION IS 100'-8", UNO.
5. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR TO CONFORM WITH THOSE SHOWN ON THE ARCH DRAWINGS. VERIFY ALL STOOP AND DOOR LOCATIONS AND SIZES WITH ARCH DRAWINGS PRIOR TO PLACING CONCRETE.
6. SEE ARCHITECTURAL DRAWINGS FOR FLOOR PITCHES, DEPRESSIONS, ETC.
7. SEE S709 FOR TYPICAL FOUNDATION DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
8. PROVIDE RIGID INSULATION AT EXTERIOR FOUNDATION WALLS. SEE ARCH FOR DETAILS.
9. SEE CIVIL DRAWINGS FOR EXTERIOR CONCRETE FLATWORK NOT SHOWN OR DETAILED ON THIS SHEET.
10. SEE PEMB DRAWINGS FOR BUILDING BASE PLATE DETAILS.

FOUNDATION PLAN NOTES AND SCHEDULES - SALT BRINE SHED

FOUNDATION PLAN NOTES

1. SEE SHEET S001, S002, & S004 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. ALL GRIDS DENOTE THE EXTERIOR FACE OF FOUNDATION WALL OR COLUMN CENTERLINE.
3. TOP OF FOUNDATION WALL ELEVATION IS 99'-0", UNO.
4. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR TO CONFORM WITH THOSE SHOWN ON THE ARCH DRAWINGS. VERIFY ALL STOOP AND DOOR LOCATIONS AND SIZES WITH ARCH DRAWINGS PRIOR TO PLACING CONCRETE.
5. SEE ARCHITECTURAL DRAWINGS FOR FLOOR PITCHES, DEPRESSIONS, ETC.
6. SEE S701 AND S702 FOR TYPICAL FOUNDATION DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
7. PROVIDE RIGID INSULATION AT EXTERIOR FOUNDATION WALLS. SEE ARCH FOR DETAILS.
8. SEE CIVIL DRAWINGS FOR EXTERIOR CONCRETE FLATWORK NOT SHOWN OR DETAILED ON THIS SHEET.
9. FOOTING AND FOUNDATION WALL REINFORCING SHALL BE EPOXY-COATED, UNO.

FOUNDATION WALL SCHEDULE

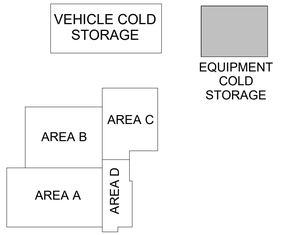
MARK	WIDTH (W)	VERTICAL REINF	HORIZONTAL REINF
FW-1	8"	#5 AT 1'-2" OC (CENTERED)	#5 AT 1'-6" OC (CENTERED)
FW-2	1' - 0"	#5 AT 1'-2" OC (EACH FACE)	#5 AT 1'-6" OC (EACH FACE)

FOOTING SCHEDULE

MARK	FOOTING TYPE	B	W	D	LONGIT REINF	TRANSV REINF
F5-0b	COLUMN FTG	5' - 0"	5' - 0"	1' - 0"	(5) #6 T&B	(5) #6 T&B
F10-6	COLUMN FTG	10' - 6"	10' - 6"	1' - 6"	(10) #6 T&B	(10) #6 T&B
SF1-4	STRIP FTG	1' - 4"	<varies>	1' - 0"	(2) #5	#5 AT 1'-2" OC
SF2-0b	STRIP FTG	2' - 0"	<varies>	1' - 0"	(4) #4	#4 AT 9" OC
SF4-6	STRIP FTG	4' - 6"	<varies>	1' - 0"	(6) #4	#4 AT 9" OC

CONCRETE PIER SCHEDULE

MARK	b x w	VERTICAL REINF	TIES
CP-3	24" x 24"	(8) #6	#4 AT 1'-0" OC & (3) #4 IN TOP 5"
CP-4	36" x 24"	(12) #6	#4 AT 1'-0" OC & (3) #4 IN TOP 5"



KEY PLAN

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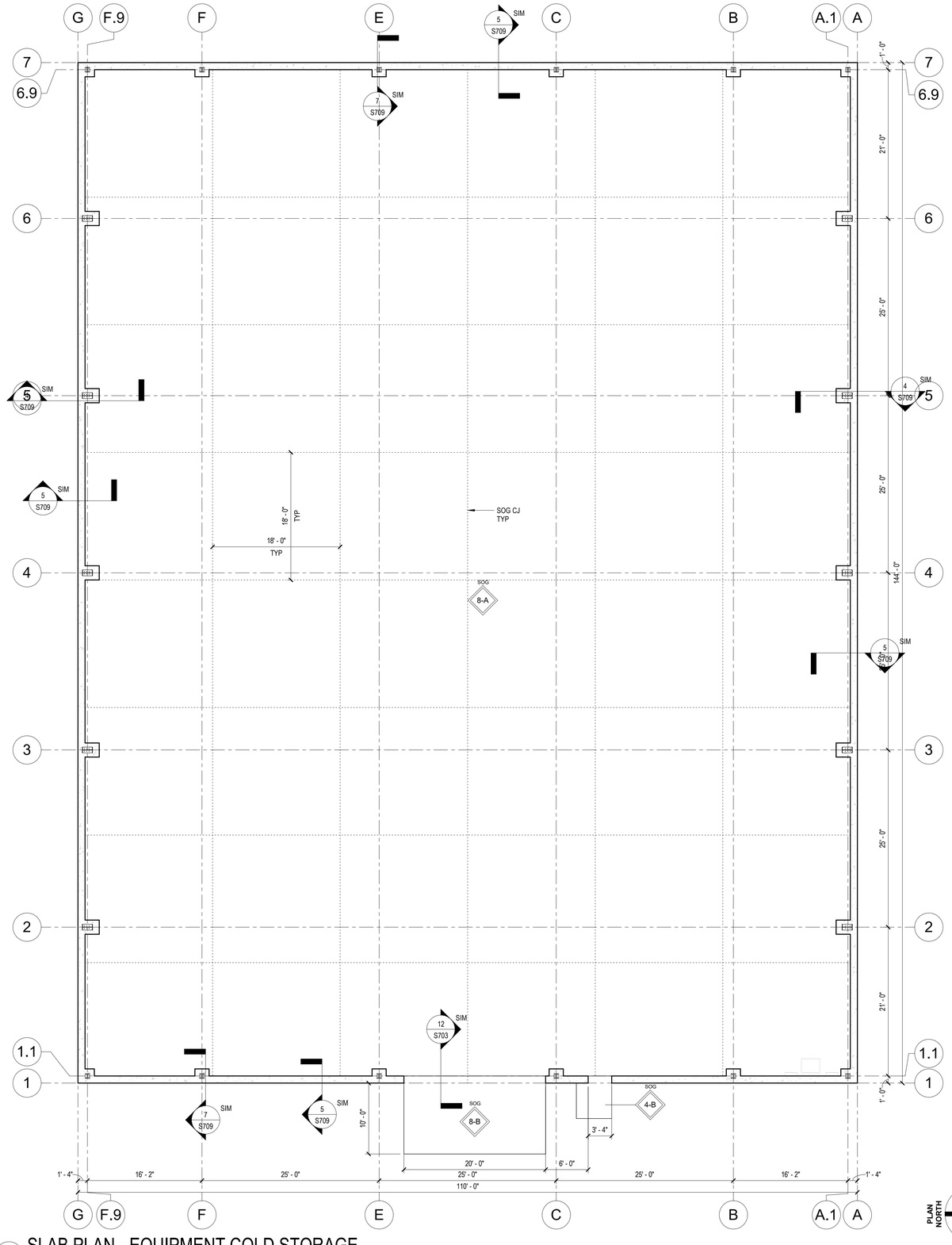
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
FOUNDATION PLAN - EQUIPMENT COLD STORAGE AND SALT BRINE SHED

SHEET
S120



1 S121 SCALE: 1/8" = 1'-0"

SLAB PLAN - EQUIPMENT COLD STORAGE

SLAB PLAN NOTES AND SCHEDULES - EQUIPMENT COLD STORAGE

FIRST FLOOR SLAB PLAN NOTES

1. SEE SHEET S001, S002, & S004 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. FIRST FLOOR ELEVATION IS 100'-0", UNO.
3. SEE ARCHITECTURAL DRAWINGS FOR FLOOR PITCHES, DEPRESSIONS, ETC.
4. SEE S703 FOR TYPICAL SLAB-ON-GRADE DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
5. CONTROL JOINT LAYOUT SHOWN IS CONCEPTUAL. CONTRACTOR MAY ADJUST JOINT LOCATIONS BASED ON REQUIREMENTS LISTED IN THE STRUCTURAL NOTES AND ON SHEET S703.
6. PROVIDE DIAGONAL REINFORCING BARS IN SOG AT RE-ENTRANT CORNERS THAT DO NOT HAVE CONTROL OR CONSTRUCTION JOINTS. SEE 'SOG AT RE-ENTRANT CORNERS' DETAIL.
7. PROVIDE THICKENED SOG AT BASE OF STAIR STRINGERS AND POSTS. COORDINATE LOCATIONS WITH STAIR DESIGNER.

SLAB PLAN NOTES AND SCHEDULES - SALT BRINE SHED

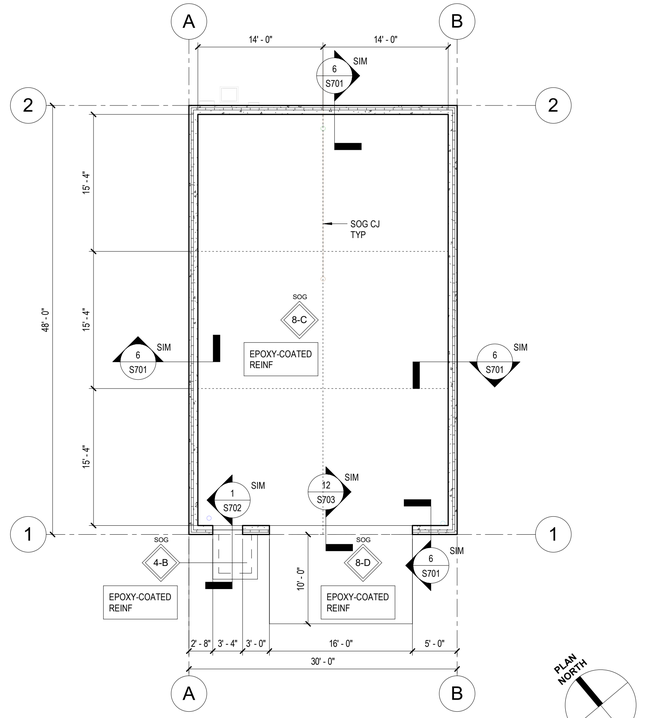
FIRST FLOOR SLAB PLAN NOTES

1. SEE SHEET S001, S002, & S004 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. FIRST FLOOR ELEVATION IS 100'-0", UNO.
3. SEE ARCHITECTURAL DRAWINGS FOR FLOOR PITCHES, DEPRESSIONS, ETC.
4. SEE S703 FOR TYPICAL SLAB-ON-GRADE DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
5. CONTROL JOINT LAYOUT SHOWN IS CONCEPTUAL. CONTRACTOR MAY ADJUST JOINT LOCATIONS BASED ON REQUIREMENTS LISTED IN THE STRUCTURAL NOTES AND ON SHEET S703.
6. PROVIDE DIAGONAL REINFORCING BARS IN SOG AT RE-ENTRANT CORNERS THAT DO NOT HAVE CONTROL OR CONSTRUCTION JOINTS. SEE 'SOG AT RE-ENTRANT CORNERS' DETAIL.
7. PROVIDE THICKENED SOG AT BASE OF STAIR STRINGERS AND POSTS. COORDINATE LOCATIONS WITH STAIR DESIGNER.
8. INTERIOR AND EXTERIOR SLAB REINFORCEMENT SHALL BE EPOXY COATED, UNO.

SLAB-ON-GRADE SCHEDULE

MARK	THICKNESS	REINFORCING	VAPOR BARRIER	INSULATION
4-B	4"	4x4 - W2.9xW2.9 WWF	N	N
8-A	8"	4x4 - W8.5xW8.5 WWF	Y	N
8-B	8"	4x4 - W8.5xW8.5 WWF	N	N
8-C	8"	#5 AT 1'-0" EA WAY	Y	N
8-D	8"	#5 AT 1'-0" EA WAY	Y	Y

NOTE: SLABS REQUIRING EPOXY-COATED REINFORCEMENT INDICATED ON PLAN.

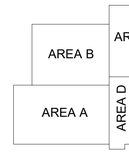


2 S121 SCALE: 1/8" = 1'-0"

SLAB PLAN - SALT BRINE SHED

VEHICLE COLD STORAGE

EQUIPMENT COLD STORAGE



MAIN BUILDING - OVERALL

SALT BRINE SHED

KEY PLAN

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BARRIENTOS DESIGN PROJECT NUMBER
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DATE
06.22.2026

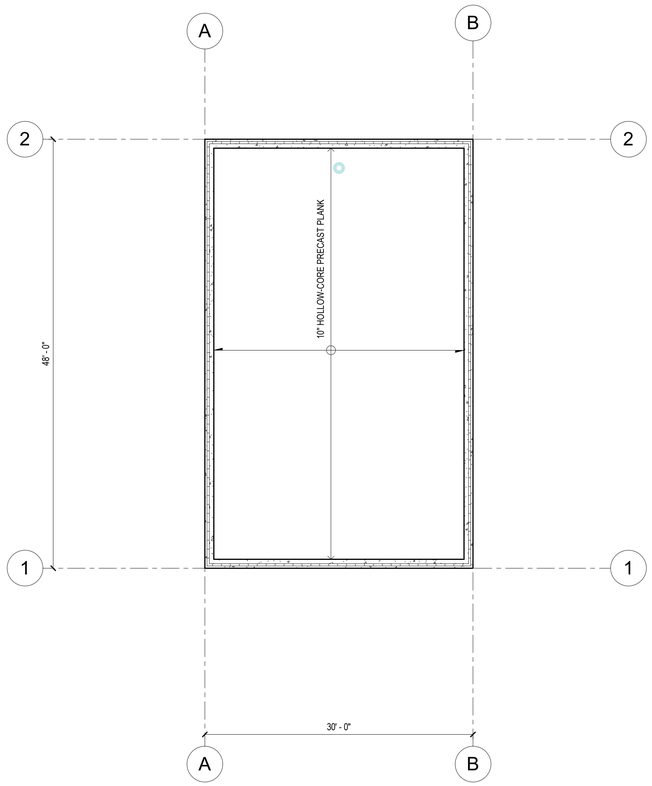
SHEET TITLE
SLAB PLAN - EQUIPMENT COLD STORAGE AND SALT BRINE SHED

SHEET
S121

ROOF FRAMING PLAN NOTES AND SCHEDULES - SALT BRINE SHED

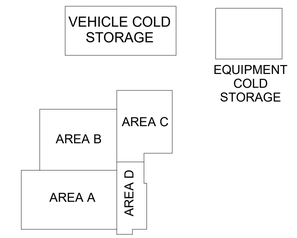
FRAMING PLAN NOTES

1. SEE SHEET S001, S002 , & S004 FOR STRUCTURE NOTES ASSOCIATED WITH THE WORK SHOWN ON THIS SHEET.
2. SEE S704 THRU S708 FOR TYPICAL ROOF FRAMING DETAILS THAT ARE NOT SPECIFICALLY CALLED OUT ON THIS SHEET.
3. GRIDS DENOTE THE EXTERIOR FACE OF FOUNDATION WALL.



1 S122 ROOF FRAMING PLAN - SALT BRINE SHED

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



MAIN BUILDING - OVERALL

SALT BRINE SHED

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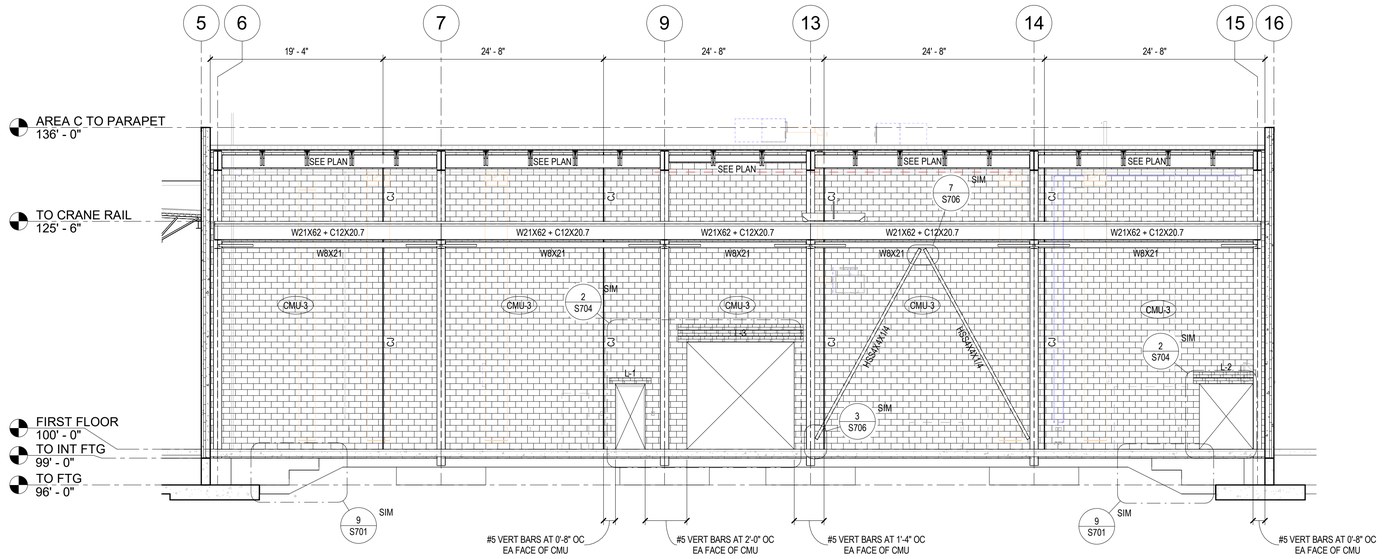
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
ROOF FRAMING PLAN - SALT BRINE SHED

SHEET
S122



1 S201 SCALE: 1/8" = 1'-0"

CRANE RUNWAY FRAMING ELEVATION

MASONRY LINTEL SCHEDULE

MARK	SIZE	LONGIT REINF	STIRRUP REINF	JAMB WIDTH	JAMB REINF	COMMENT
L-1	8"W x 8"D	(2) #5 BOT	N/A	1 CORE	(1) #5 EA CORE	
L-2	8"W x 16"D	(2) #5 BOT	N/A	1 CORE	(1) #5 EA CORE	
L-3	8"W x 24"D	(2) #5 BOT	N/A	2 CORES	(1) #5 EA CORE	

MASONRY WALL SCHEDULE

MARK	WALL THICKNESS	VERTICAL REINF	HORIZONTAL REINF	BAR PLACEMENT
CMU-3	7 5/8"	#5 AT 3'-4" OC	W1.7 AT 1'-4" OC	CENTERED

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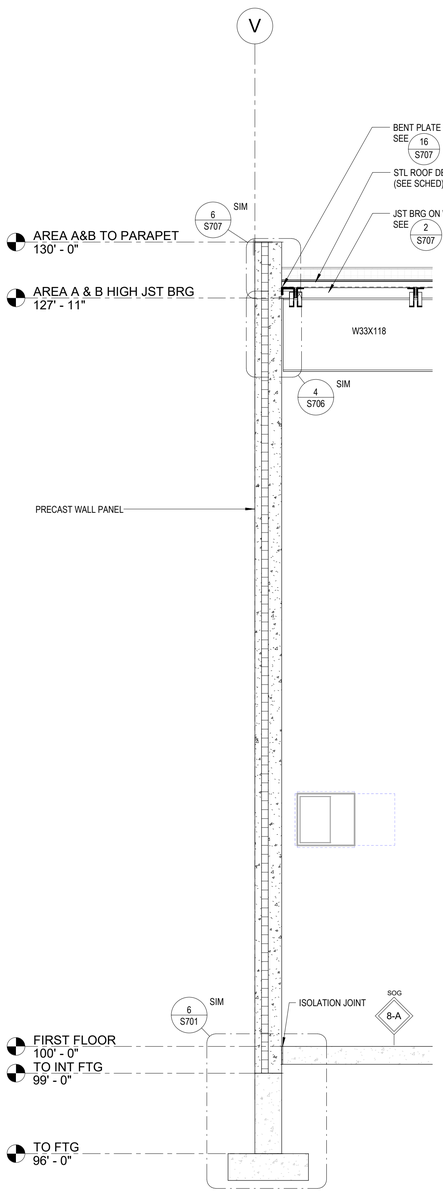
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BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

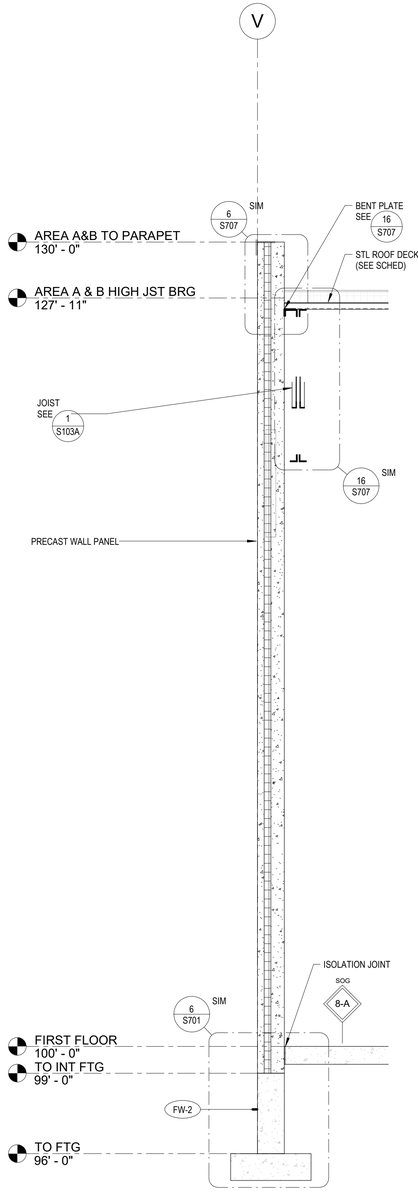
DATE
06.22.2026

SHEET TITLE
FRAMING ELEVATIONS

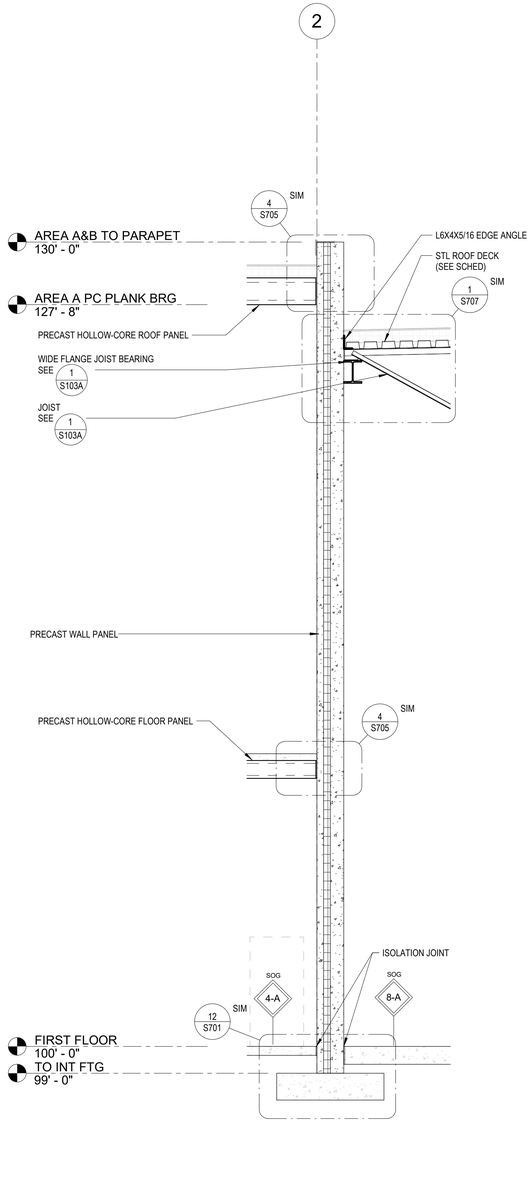
SHEET
S201



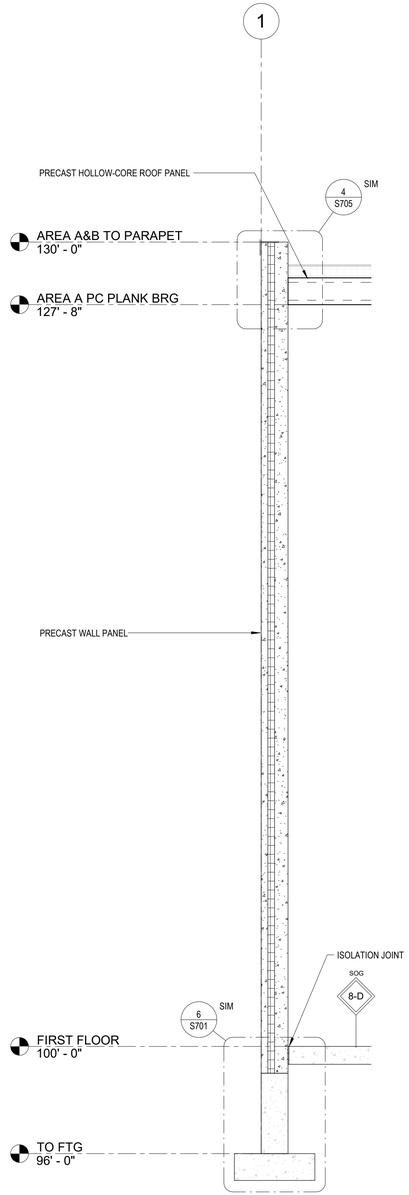
1 S301 **WALL SECTION**
SCALE: 3/8" = 1'-0"



2 S301 **WALL SECTION**
SCALE: 3/8" = 1'-0"



3 S301 **WALL SECTION**
SCALE: 3/8" = 1'-0"



4 S301 **WALL SECTION**
SCALE: 3/8" = 1'-0"

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ISSUANCE HISTORY

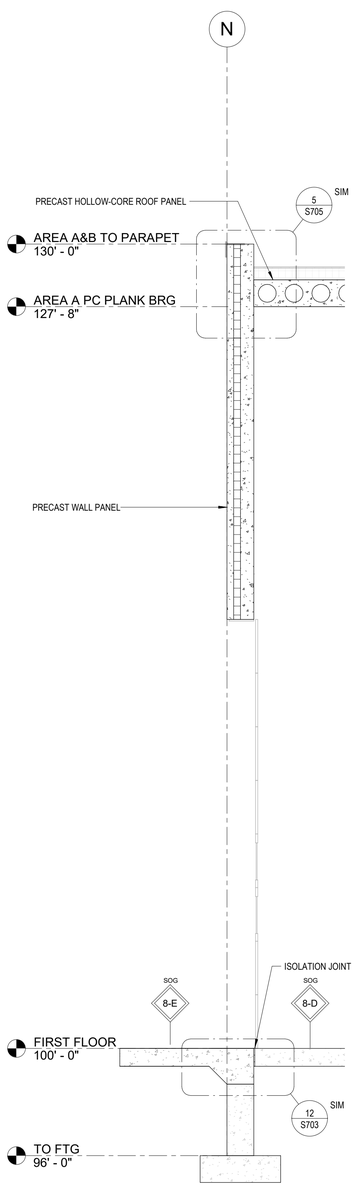
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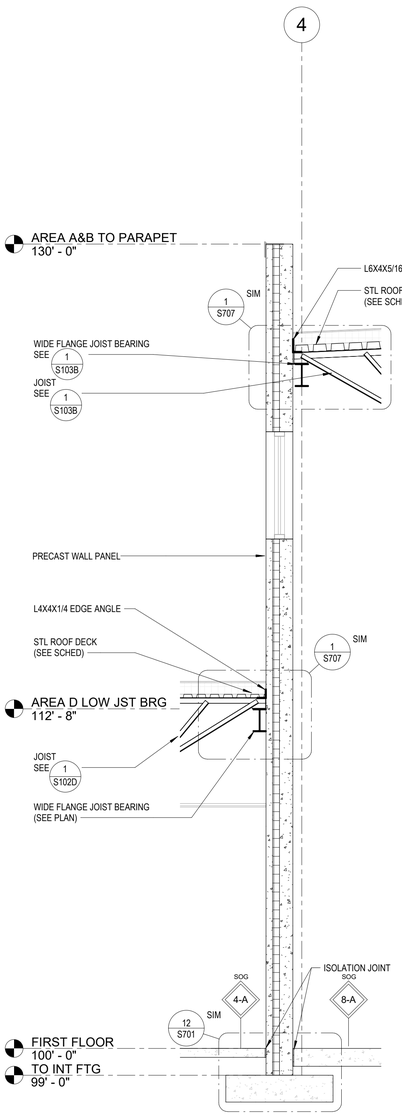
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SHEET TITLE
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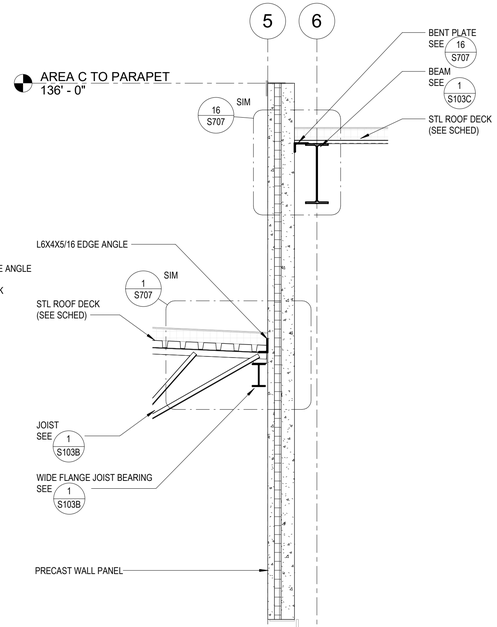
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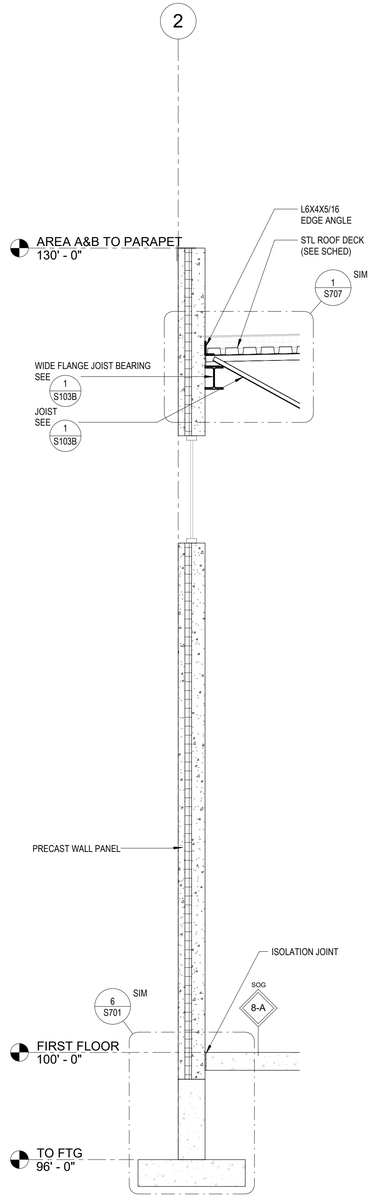
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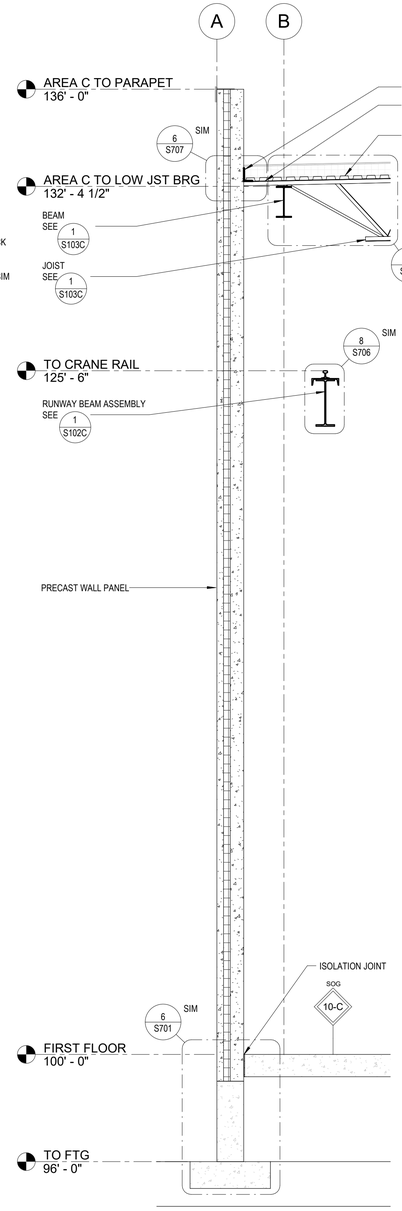
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SCALE: 3/8" = 1'-0"



3 S302 WALL SECTION
SCALE: 3/8" = 1'-0"



4 S302 WALL SECTION
SCALE: 3/8" = 1'-0"



5 S302 WALL SECTION
SCALE: 3/8" = 1'-0"

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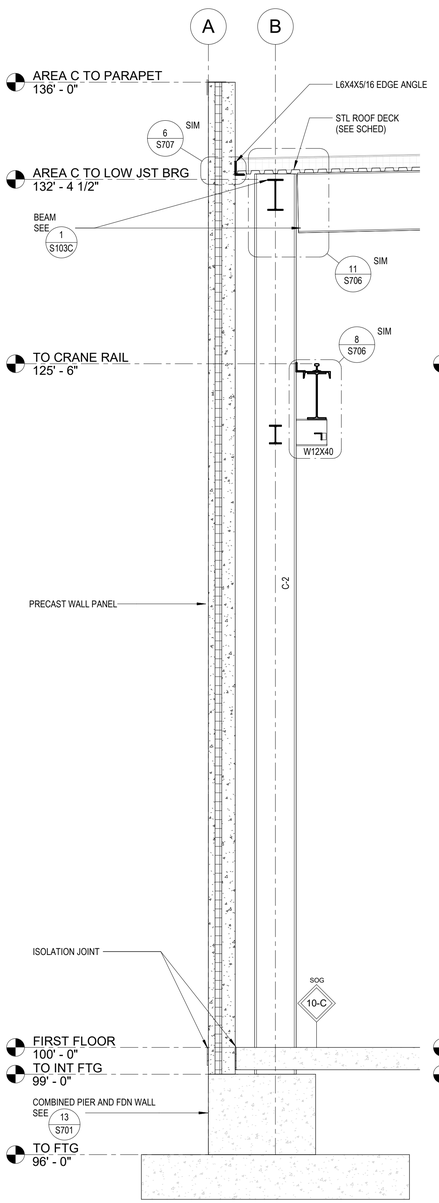
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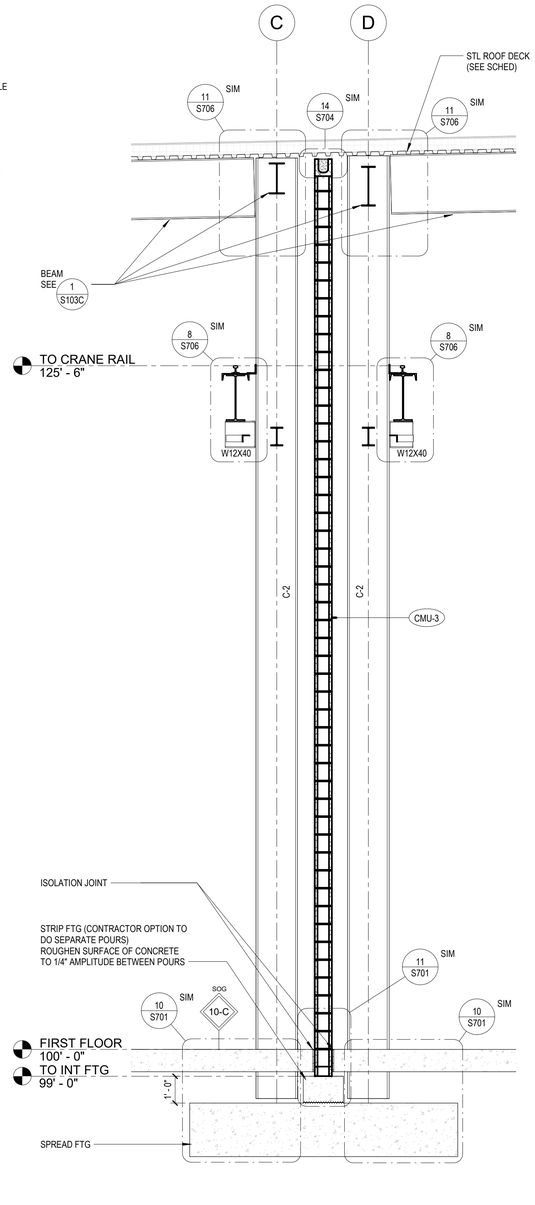
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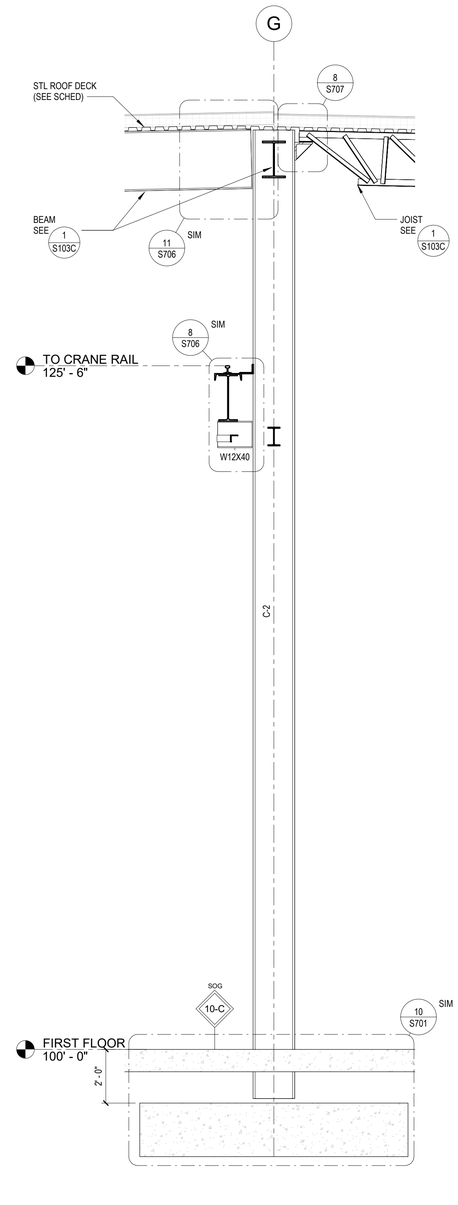
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S302



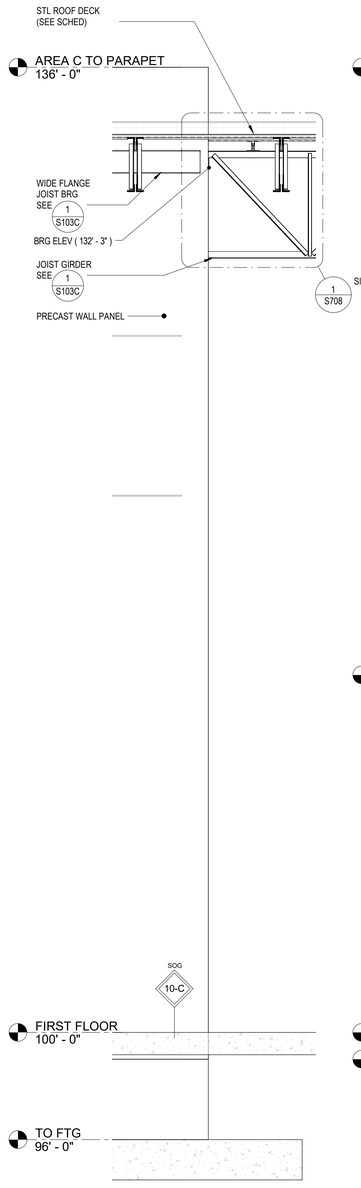
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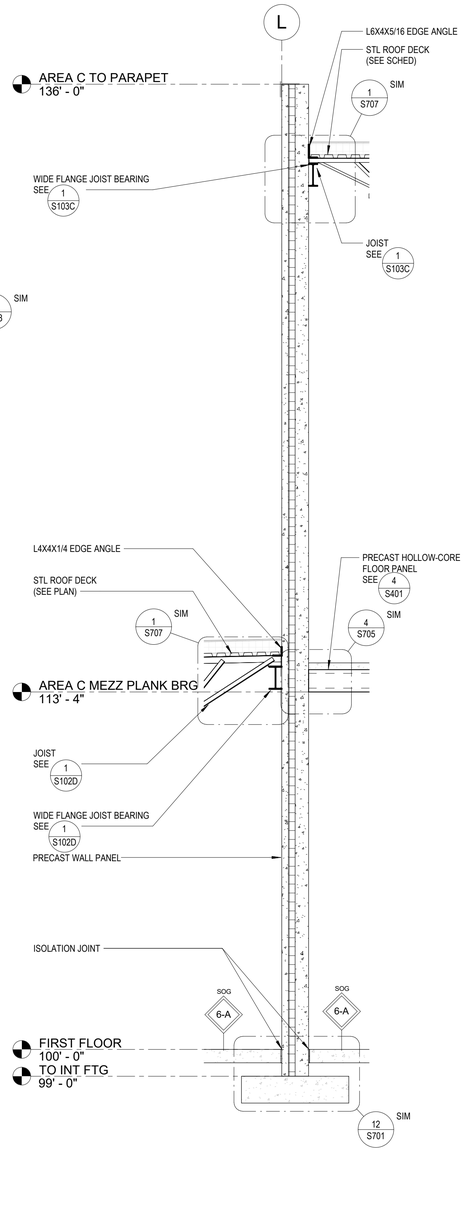
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3 S303 WALL SECTION
SCALE: 3/8" = 1'-0"



4 S303 WALL SECTION
SCALE: 3/8" = 1'-0"



5 S303 WALL SECTION
SCALE: 3/8" = 1'-0"

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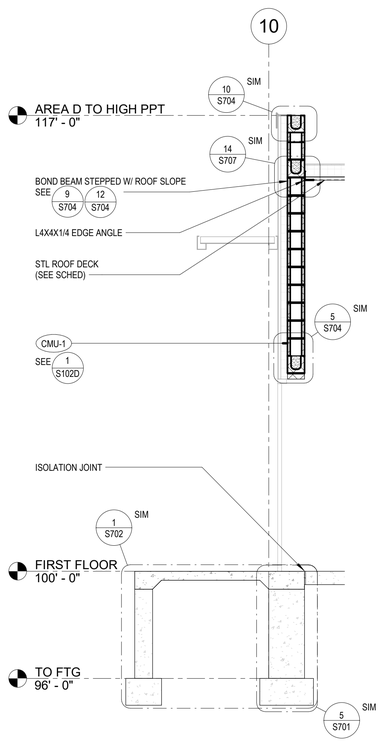
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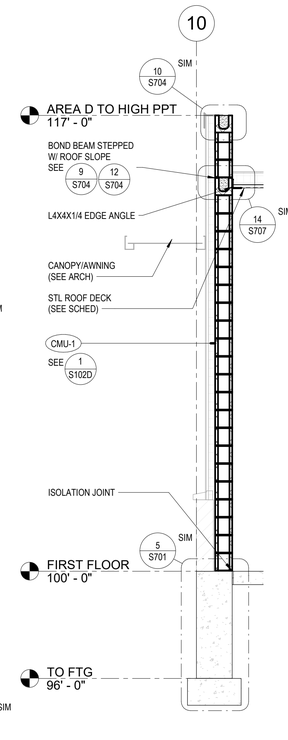
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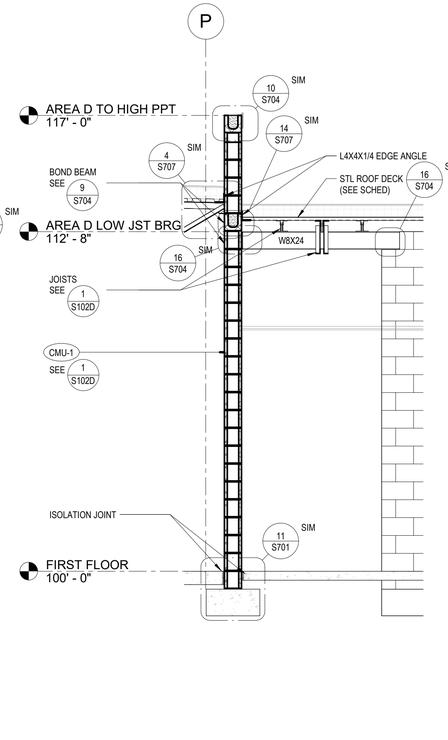
SHEET
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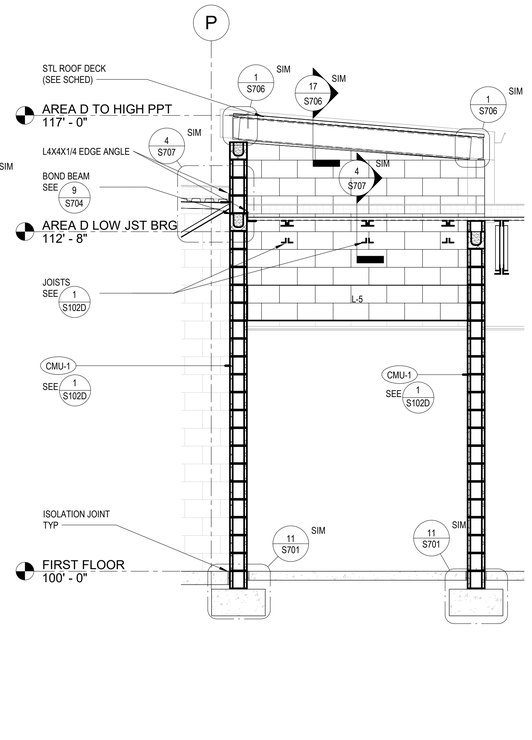
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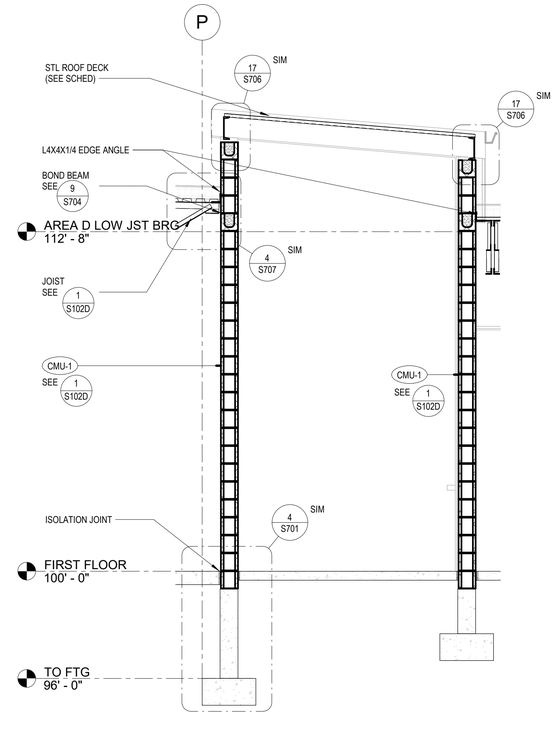
2 S304 WALL SECTION
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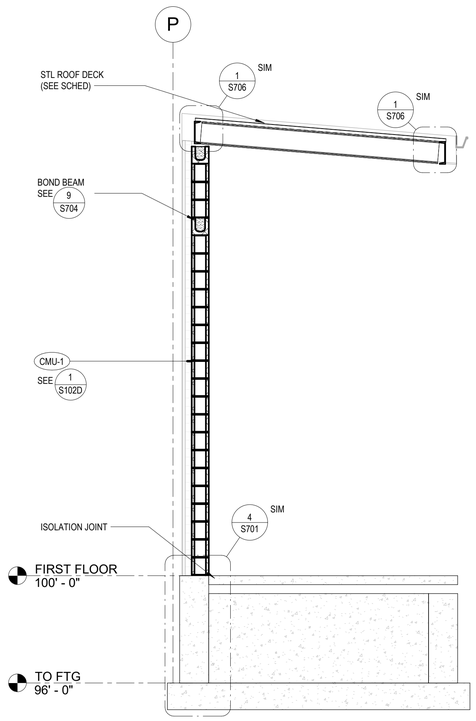
3 S304 WALL SECTION
SCALE: 3/8" = 1'-0"



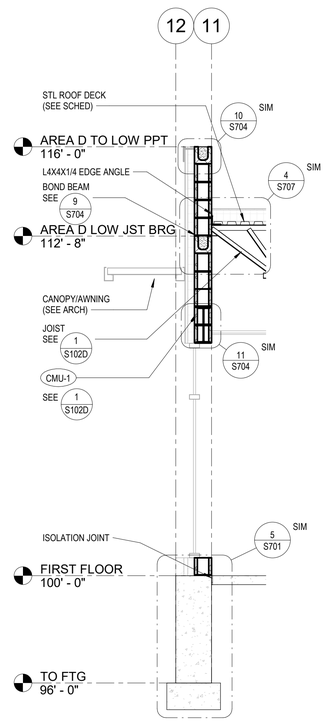
4 S304 WALL SECTION
SCALE: 3/8" = 1'-0"



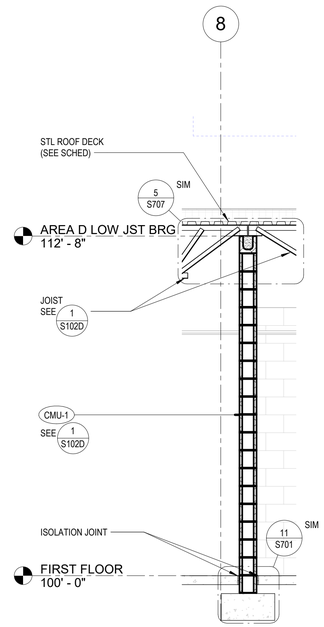
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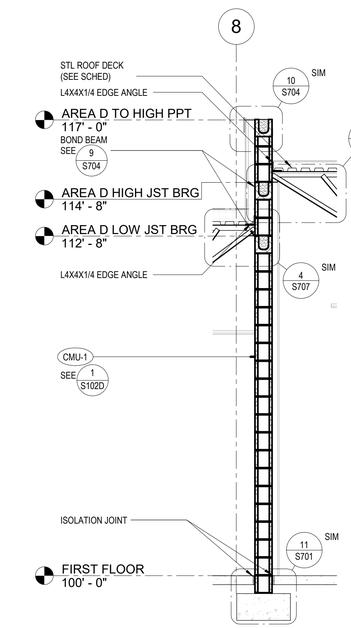
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SCALE: 3/8" = 1'-0"



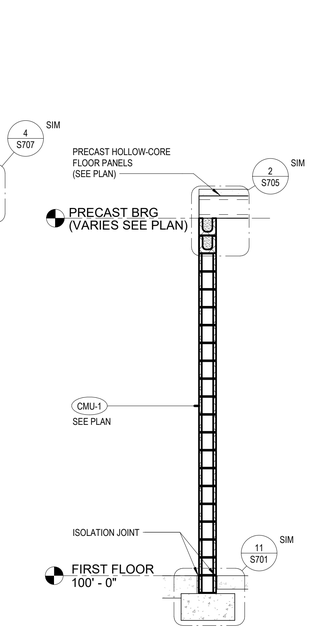
7 S304 WALL SECTION
SCALE: 3/8" = 1'-0"



8 S304 WALL SECTION
SCALE: 3/8" = 1'-0"

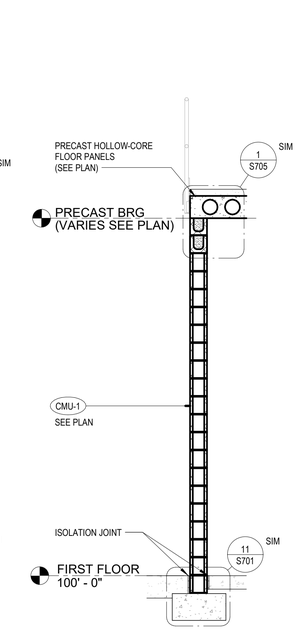


9 S304 WALL SECTION
SCALE: 3/8" = 1'-0"



NOTE: FOUNDATION TYPE MAY VARY DEPENDING UPON LOCATION. REFER TO PLAN VIEW.

10 S304 WALL SECTION
SCALE: 3/8" = 1'-0"



NOTE: FOUNDATION TYPE MAY VARY DEPENDING UPON LOCATION. REFER TO PLAN VIEW.

11 S304 WALL SECTION
SCALE: 3/8" = 1'-0"

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BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
STRUCTURAL SECTIONS - MAIN BUILDING

SHEET
S304

ENGLARGED PLAN SCHEDULES

STEEL DECK SCHEDULE

MARK	DECK TYPE	DEPTH	GAUGE	MIN SPANS	FASTENERS		
					PERP SUPPORTS	PARALLEL SUPPORTS	SIDELAP
D-3	1.5B-36	1 1/2"	22	2	HILTI X-HSN24 PAF AT 36/5	HILTI X-HSN24 PAF AT 10" OC	HILTI SLC 01 OR 02 AT 18" OC
D-4	1.5B-36	1 1/2"	19	2	HILTI X-HSN24 PAF AT 36/5	HILTI X-HSN24 PAF AT 10" OC	HILTI SLC 01 OR 02 AT 18" OC

MASONRY WALL SCHEDULE

MARK	WALL THICKNESS	VERTICAL REINF	HORIZONTAL REINF	BAR PLACEMENT
CMU-1	7 5/8"	#5 AT 4'-0" OC	W1.7 AT 1'-4" OC	CENTERED

MASONRY LINTEL SCHEDULE

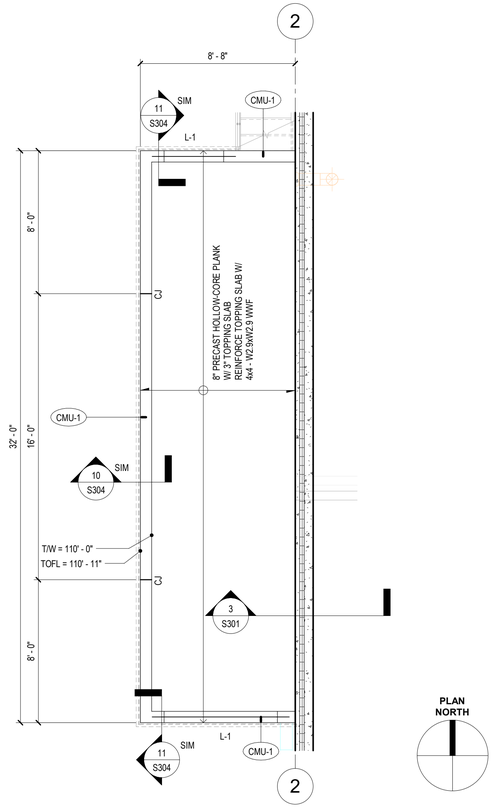
MARK	SIZE	LONGIT REINF	STIRRUP REINF	JAMB WIDTH	JAMB REINF	COMMENT
L-1	8"W x 8"D	(2) #5 BOT	N/A	1 CORE	(1) #5 EA CORE	

SLAB-ON-GRADE SCHEDULE

MARK	THICKNESS	REINFORCING	VAPOR BARRIER	INSULATION
4-A	4"	4x4 - W2.9xW2.9 WWF	Y	N

COLUMN SCHEDULE

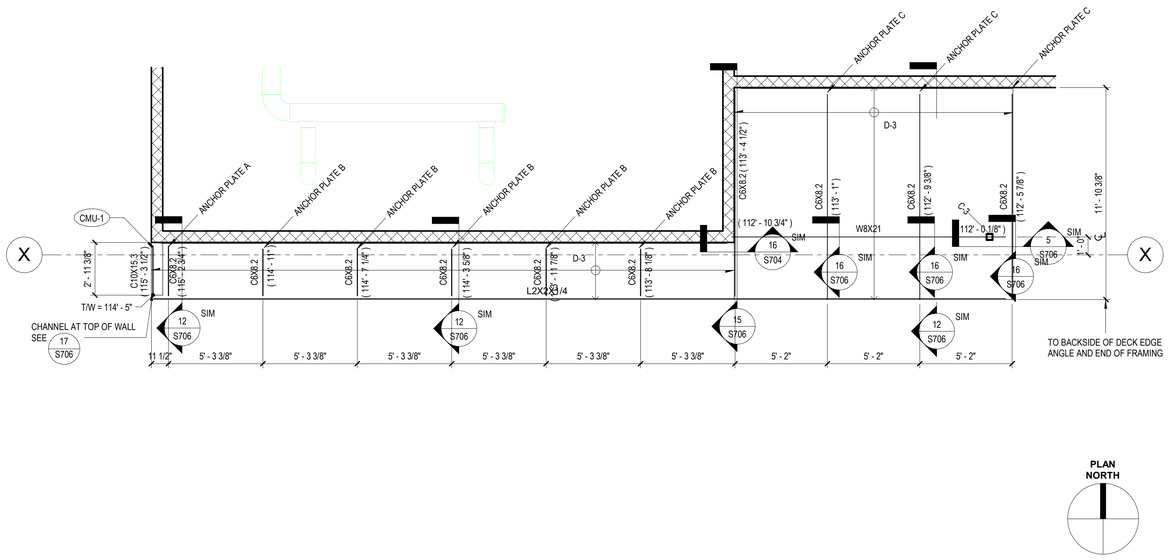
MARK	SECTION	BASE PLATE
C-2	W18X97	BP-2
C-3	HSS4X4X1/4	BP-3



PLAN NORTH

1 S401 ENLARGED PLAN - AREA A TRUCK WASH PLATFORM

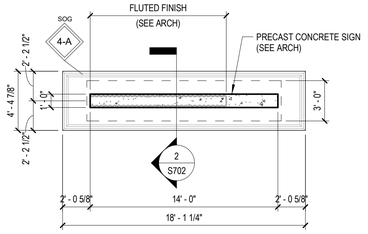
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PLAN NORTH

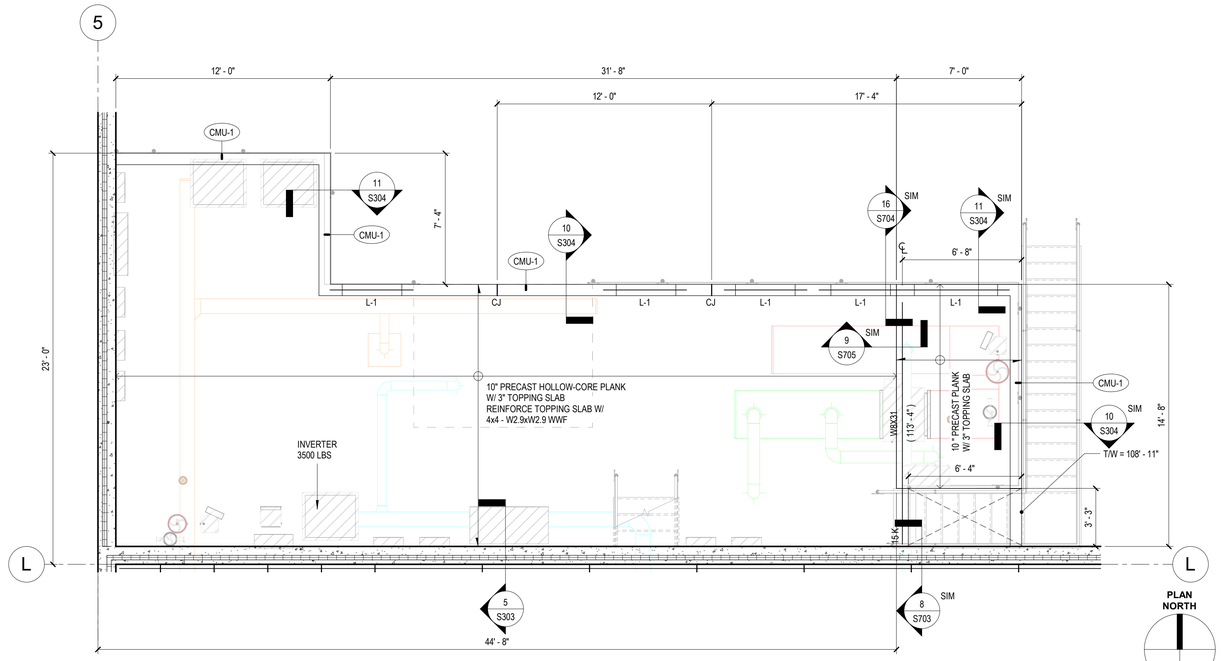
2 S401 ENLARGED PLAN - AREA D CANOPY ROOF FRAMING

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



3 S401 ENLARGED PLAN - MONUMENT SIGN

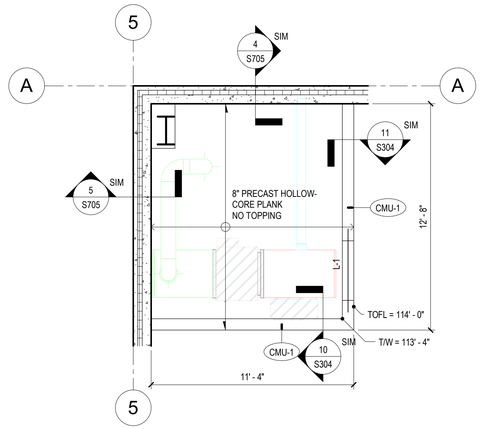
SCALE: 3/16" = 1'-0"



PLAN NORTH

4 S401 ENLARGED PLAN - AREA C MEZZANINE

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



PLAN NORTH

5 S401 ENLARGED PLAN - AREA C OFFICE ROOF PLATFORM

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

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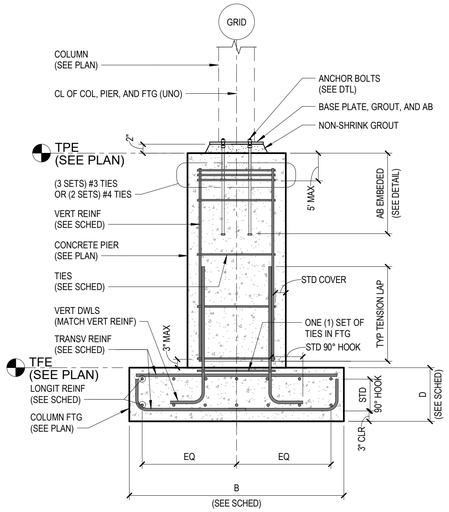
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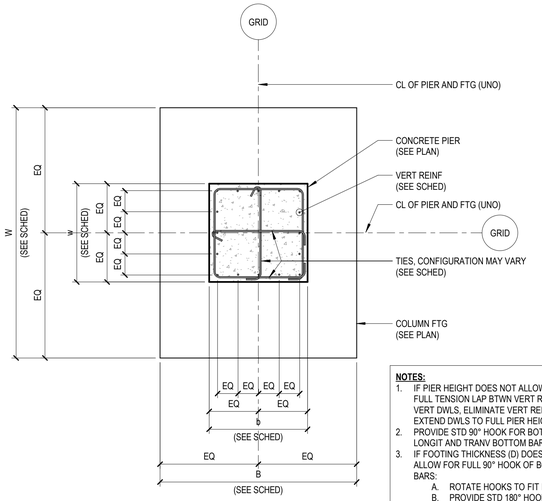
DATE
06.22.2026

SHEET TITLE
ENLARGED PLANS

SHEET
S401



SECTION THRU COLUMN FOUNDATION

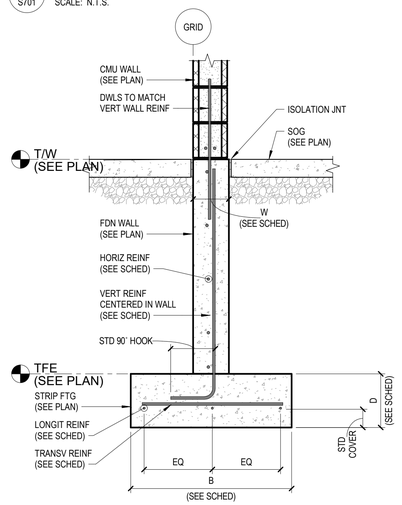


COLUMN FOUNDATION PLAN

NOTES:
1. IF PIER HEIGHT DOES NOT ALLOW FOR FULL TENSION LAP BTWN VERT REINF AND VERT DWLS, ELIMINATE VERT REINF AND EXTEND DWLS TO FULL PIER HEIGHT.
2. PROVIDE STD 90° HOOK FOR BOTH LONGIT AND TRANV BOTTOM BARS.
3. IF FOOTING THICKNESS (D) DOES NOT ALLOW FOR FULL 90° HOOK OF BOTTOM BARS:
   A. ROTATE HOOKS TO FIT IN FIELD;
   B. PROVIDE STD 180° HOOK.
4. TIE CONFIGURATION MUST MEET REQUIREMENTS OF ACI 318, SECTION 25.7.2.
5. PLACE GROUT PRIOR TO ERECTING UPPER FLOORS.

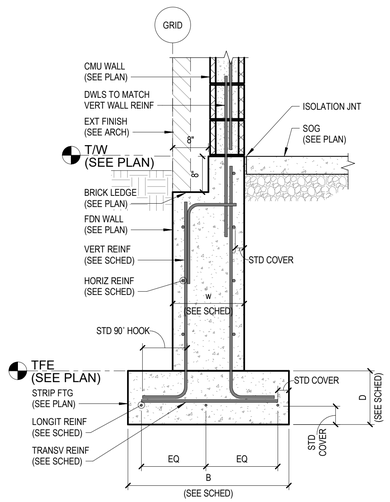
1 S701 TYP COLUMN FOUNDATION (CONCRETE PIER ON FTG)

SCALE: N.T.S.



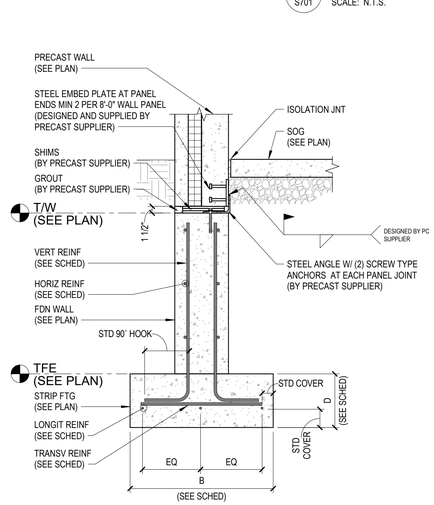
4 S701 TYP FDN WALL AT INTERIOR CMU

SCALE: N.T.S.



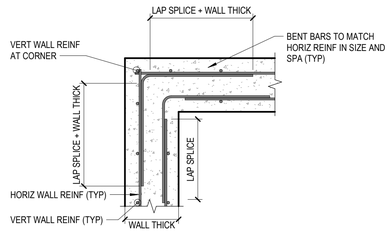
5 S701 TYP FOUNDATION WALL SECTION

SCALE: N.T.S.

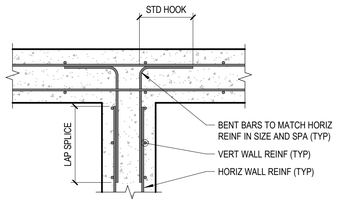


6 S701 TYP FDN WALL SECTION - PRECAST WALL

SCALE: N.T.S.

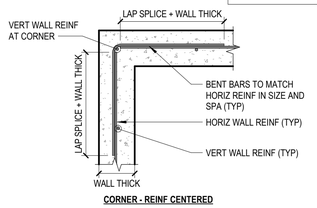


CORNER - REINF EACH FACE

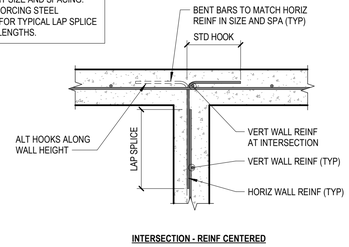


INTERSECTION - REINF EACH FACE

NOTES:
1. SEE FOUNDATION PLAN AND ASSOCIATED SCHEDULES FOR REQUIRED VERT AND HORIZ WALL REINFORCEMENT SIZE AND SPACING.
2. REFER TO "TYP REINFORCING STEEL DIMENSIONS" DETAIL FOR TYPICAL LAP SPLICE LENGTHS AND HOOK LENGTHS.



CORNER - REINF CENTERED



INTERSECTION - REINF CENTERED

2 S701 TYP CONCRETE WALL CORNER REINFORCEMENT

SCALE: N.T.S.

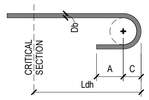
CIP CONCRETE CLEAR COVER			
CONCRETE EXPOSURE	**MEMBERS**	**REINFORCING SIZE**	**CLEAR...**
CAST PERMANENTLY IN CONTACT WITH GROUND	FOOTINGS, FDN WALLS, PIERS, ETC	ALL	3"
EXTERIOR EXPOSURE (NOT IN CONTACT WITH GROUND)	WALLS, PIERS, COLUMNS, BEAMS, SLABS, ETC	#6 ≤ SIZE ≤ #18 BARS	2"
		SIZE ≤ #5 BARS, W31 OR D31...	1-1/2"
INTERIOR EXPOSURE	SLABS, JOISTS, WALLS	#14 ≤ SIZE ≤ #18 BARS	1-1/2"
		SIZE ≤ #11 BARS	3/4"
	BEAMS, COLUMNS	ALL	1-1/2"

DEVELOPMENT LENGTH & LAP SPLICES - 4000 & 4500 PSI

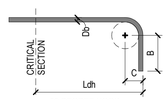
BAR SIZE	F'c = 4000 PSI: DEVELOPMENT LENGTH TYP	DEVELOPMENT LENGTH TOP	LAP SPLICE (CLASS B) TYP	LAP SPLICE (CLASS B) TOP	BAR SIZE	F'c = 4500 PSI: DEVELOPMENT LENGTH TYP	DEVELOPMENT LENGTH TOP	LAP SPLICE (CLASS B) TYP	LAP SPLICE (CLASS B) TOP
#4	1'-7"	2'-5"	2'-1"	3'-2"	#4	1'-8"	2'-3"	2'	3'
#5	2'-0"	3'-0"	2'-8"	3'-11"	#5	1'-11"	2'-10"	2'-6"	3'-9"
#6	2'-5"	3'-7"	3'-2"	4'-8"	#6	2'-3"	3'-5"	3'-0"	4'-6"
#7	3'-6"	5'-3"	4'-7"	6'-10"	#7	3'-4"	4'-11"	4'-4"	6'-5"
#8	4'-0"	6'-0"	5'-3"	7'-10"	#8	3'-9"	5'-8"	5'-11"	7'-5"
#9	4'-6"	6'-9"	5'-11"	8'-10"	#9	4'-3"	6'-4"	5'-7"	8'-3"
#10	5'-1"	7'-7"	6'-8"	9'-11"	#10	4'-9"	7'-2"	6'-3"	9'-4"
#11	5'-7"	8'-5"	7'-4"	11'-0"	#11	5'-4"	7'-11"	7'-0"	10'-4"

STANDARD HOOKS

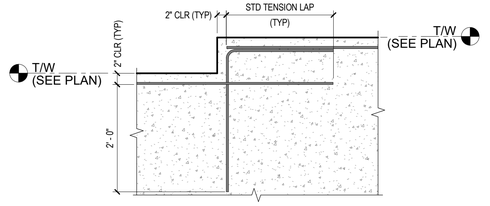
BAR SIZE	F'c = 4000 PSI: Ldh	HOOK DIMENSIONS "A"	"B"	"C"	BAR SIZE	F'c = 4500 PSI: Ldh	HOOK DIMENSIONS "A"	"B"	"C"
#4	6"	2 1/2"	6"	2"	#4	8"	2 1/2"	9"	2"
#5	6"	2 1/2"	7 1/2"	2 1/2"	#5	10"	2 1/2"	1'	2 1/2"
#6	10"	3"	9"	3"	#6	1'	3"	1'-2"	3"
#7	1'	3 1/2"	10 1/2"	3 1/2"	#7	1'-2"	3 1/2"	1'-4"	3 1/2"
#8	1'-2"	4"	1'	4"	#8	1'-4"	4"	1'-6"	4"
#9	1'-3"	4 1/2"	1'-1 1/2"	5 5/8"	#9	1'-8"	4 1/2"	1'-9"	5 5/8"
#10	1'-5"	5"	1'-3"	6 1/4"	#10	1'-10"	5"	1'-11"	6 1/4"
#11	1'-7"	5 1/2"	1'-4 1/2"	6 7/8"	#11	2'	5 1/2"	2'-2"	6 7/8"



180-DEGREE HOOK



90-DEGREE HOOK

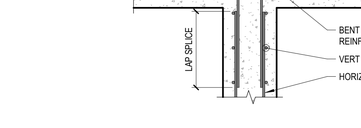


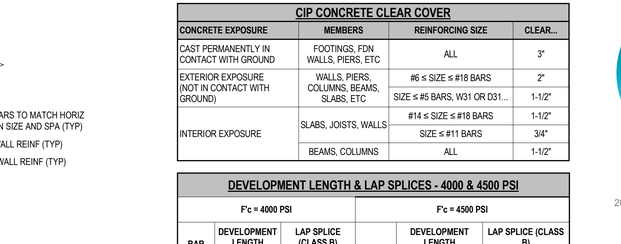
7 S701 TYP REINF AT FOUNDATION WALL STEP

SCALE: N.T.S.

3 S701 TYP REINFORCING STEEL DIMENSIONS

SCALE: N.T.S.





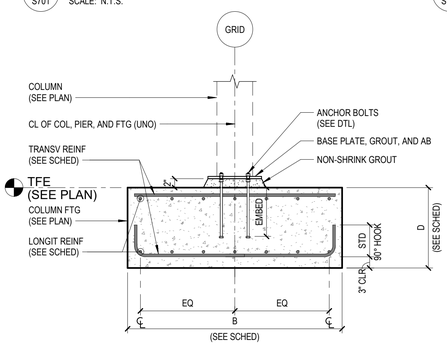
NOTE:
1. TRANSVERSE REINFORCEMENT NOT SHOWN.
2. STEP SIZE: 8" OR 1'-4" (MASONRY WALLS)
   2'-0" MAX (CONCRETE WALLS)

8 S701 TYP CONCRETE WALL END REINF

SCALE: N.T.S.

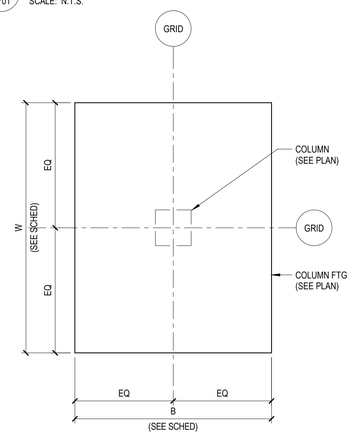
9 S701 TYP STEPPED FOOTING

SCALE: N.T.S.



SECTION THRU COLUMN FOUNDATION

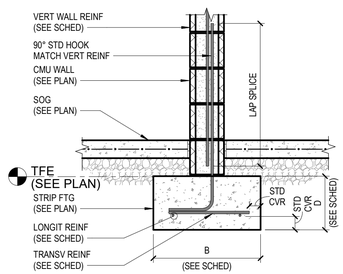
NOTES:
1. PROVIDE STD 90° HOOK FOR BOTH LONGIT AND TRANV BOTTOM BARS.
2. IF FOOTING THICKNESS (D) DOES NOT ALLOW FOR FULL 90° HOOK OF BOTTOM BARS:
   A. ROTATE HOOKS TO FIT IN FIELD;
   B. PROVIDE STD 180° HOOK.
3. PLACE GROUT PRIOR TO ERECTING UPPER FLOORS.



COLUMN FOUNDATION PLAN

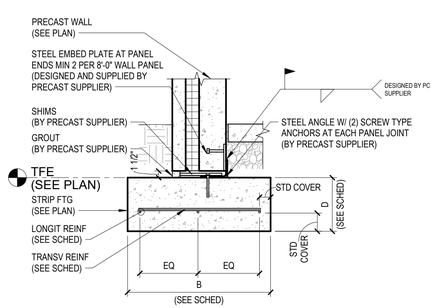
10 S701 TYP COLUMN FOUNDATION (INTERIOR FTG)

SCALE: N.T.S.



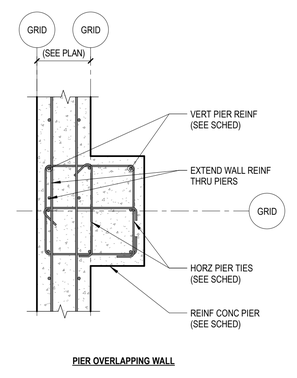
11 S701 SHALLOW WALL FTG

SCALE: N.T.S.

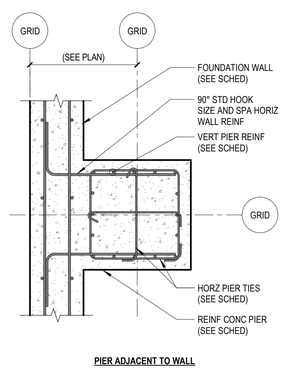


12 S701 TYP PRECAST WALL DIRECT TO FDN

SCALE: N.T.S.



PIER OVERLAPPING WALL



PIER ADJACENT TO WALL

13 S701 TYP FDN WALL AT PIER REINF

SCALE: N.T.S.

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Jackson County Highway Facility

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DATE	DESCRIPTION

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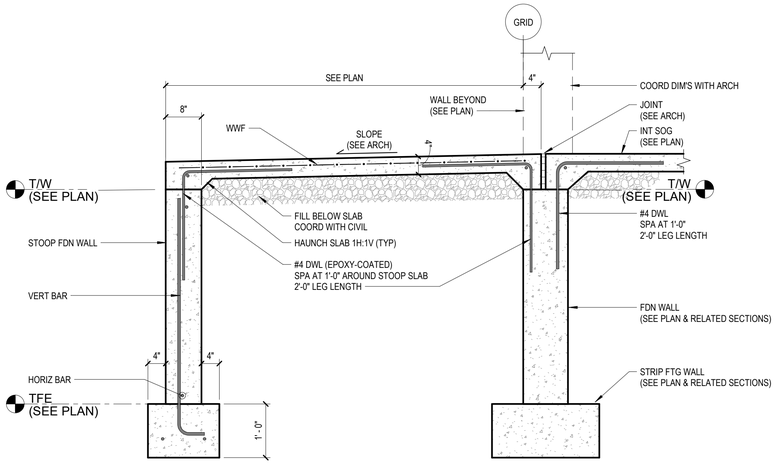
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
FOUNDATION DETAILS

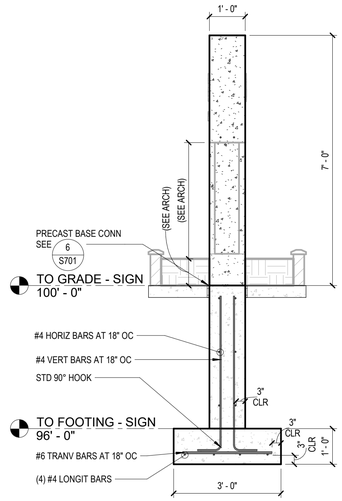
SHEET
S701



NOTES:
1. STOOP FOUNDATION WALL SHALL BE LOCATED ON THE THREE SIDES OF THE STOOP SLAB NOT OCCUPIED BY THE BUILDING FOUNDATION WALL.
2. HORIZ BARS SHALL BE CONT AT CORNERS WITH BENT BARS AND DOWELED INTO BUILDING FOUNDATION WALL.

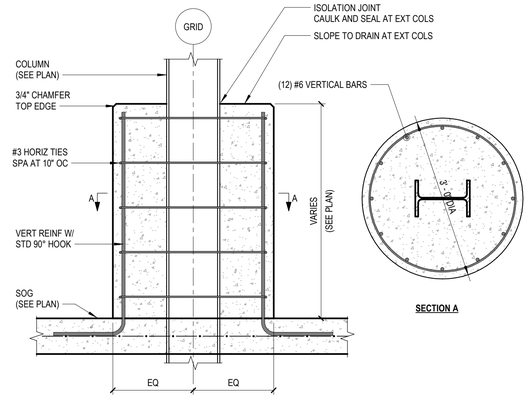
1 S702 STOOP AT EXTERIOR DOOR

SCALE: N.T.S.



2 S702 MONUMENT SIGN FDN

SCALE: N.T.S.



3 S702 CONCRETE ENCASEMENT AT STEEL COLUMN

SCALE: N.T.S.

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DATE	DESCRIPTION

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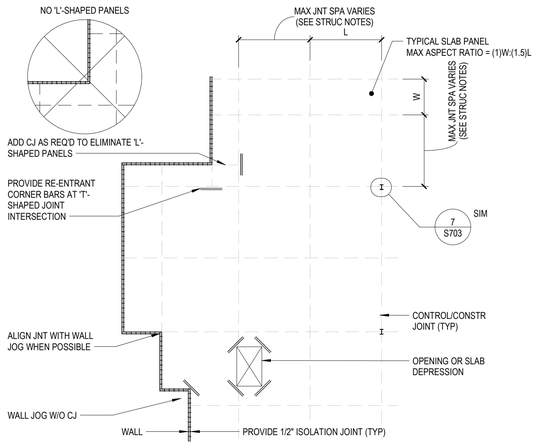
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BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
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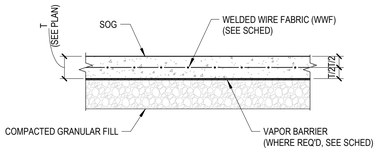
SHEET
S702



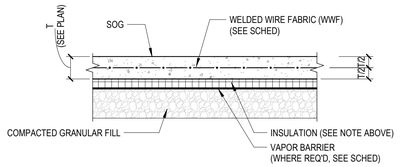
SLAB ON GRADE JOINTING AND ADDITIONAL REINFORCEMENT NOTES

1. SEE STRUCTURAL NOTES FOR MAXIMUM CONTROL JOINT SPACING.
2. CONTRACTOR TO SUBMIT SLAB ON GRADE JOINT PLAN THREE WEEKS PRIOR TO SLAB POUR.
3. LIMIT SLAB PANEL ASPECT RATIO TO 1.5:1.
4. MINIMIZE "L" SHAPED PANELS WHEN AT ALL POSSIBLE OR PROVIDE ADDITIONAL JOINTING OR RE-ENTRANT CORNER BARS.
5. WHENEVER POSSIBLE LOCATE JOINTS UNDER NON-LOAD-BEARING WALL AND FIXTURES.
6. SAW CUTTING SHALL BE DONE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT CUTTING WITHOUT CHIPPING, SPALLING, OR TEARING, BUT NOT MORE THAN 12 HOURS AFTER POURING.

1 S703 TYPICAL SOG PLAN
SCALE: N.T.S.

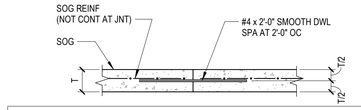


2 S703 TYPICAL SOG SECTION
SCALE: N.T.S.



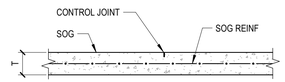
NOTE: INSULATION SHALL BE EXTRUDED POLYSTYRENE INSULATION BOARD. MINIMUM 60 PSI COMPRESSIVE STRENGTH.

3 S703 INSULATED SOG SECTION
SCALE: N.T.S.



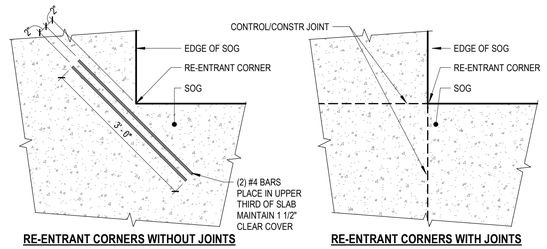
NOTES:
1. GREASE ONE END OF DOWEL AND PROVIDE SUPPORT TO ENSURE HORIZONTAL ALIGNMENT.
2. PLACE FIRST DOWEL WITHIN 6" OF SLAB EDGE.
3. 1/4" PLATE DWL SPA AT 2'-6" OC MAY BE USED AS AN ALTERNATIVE TO THE #4 DWL.
4. FILL JOINT WITH POLYURETHANE SEALANT AT EXPOSED CONCRETE.

4 S703 SOG CONSTRUCTION JOINT
SCALE: N.T.S.

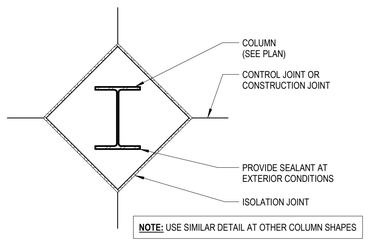


NOTES:
1. CONTROL JOINT SHALL BE CREATED WITH EITHER A SAWCUT (1/8" WIDTH, T/4 DEPTH) OR A SLAB CONTRACTION (CONTROL) JOINT DEVICE.
2. FILL JOINT WITH POLYURETHANE SEALANT AT EXPOSED CONCRETE.
3. COMPLETE SAWCUT WITHIN 4 TO 12 HOURS AFTER SLAB IS FINISHED AND:
   A. BEFORE CONCRETE STARTS TO COOL;
   B. AS SOON AS SURFACE IS FIRM ENOUGH NOT TO BE TORN OR DAMAGED;
   C. BEFORE RANDOM-DRYING-SHRINKAGE CRACKS CAN FORM.

5 S703 SOG CONTROL JOINT
SCALE: N.T.S.

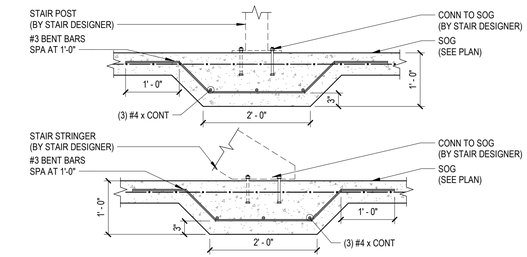


6 S703 SOG AT RE-ENTRANT CORNERS
SCALE: N.T.S.

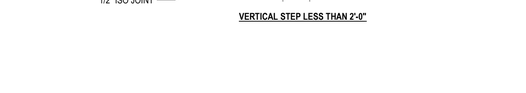


NOTE: USE SIMILAR DETAIL AT OTHER COLUMN SHAPES

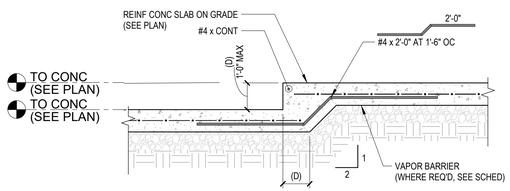
7 S703 SOG ISOLATION JOINT AT COLUMN
SCALE: N.T.S.



8 S703 THICKENED SLAB AT STAIRS
SCALE: N.T.S.



VERTICAL STEP LESS THAN 2'-0"



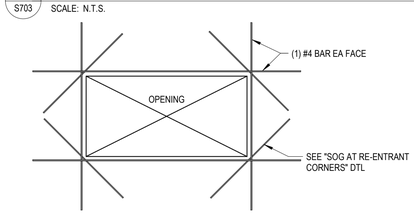
VERTICAL STEP LESS THAN 1'-0"

9 S703 SOG VERTICAL STEP
SCALE: N.T.S.



NOTES:
1. VERIFY SIZE, LOCATION, AND QUANTITY OF PADS WITH EQUIPMENT LAYOUT PRIOR TO POURING SLAB.
2. NOTIFY ENGINEER IF EQUIPMENT LOAD ON PAD EXCEEDS 100 PSF.
3. ROUGHEN SURFACE OF CONCRETE SLAB TO 1/4" AMPLITUDE BENEATH PAD. STOP ROUGHEN SURFACE APPROX 2" FROM EDGE OF PAD.
4. PROVIDE #4 BENT BARS SPACED AT 1'-0" AROUND PERIMETER. FASTEN TO SOG WITH EPOXY ADHESIVE AND 2 1/2" MINIMUM EMBEDMENT.
5. THE PAD SHOWN IS FOR HOUSEKEEPING ONLY. NOTIFY ENGINEER IF HEAVY EQUIPMENT OR VIBRATING OR CYCLIC LOADS ARE EXPECTED.

10 S703 TYP ELEVATED HOUSEKEEPING PAD
SCALE: N.T.S.



13 S703 SOG AT OPENING OR DEPRESSION
SCALE: N.T.S.

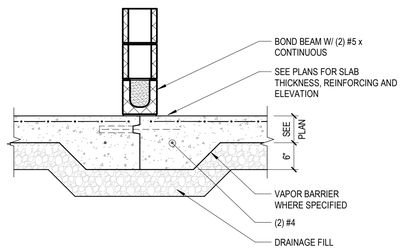


11 S703 BAR GRATING OVER SOG DEPRESSION
SCALE: N.T.S.



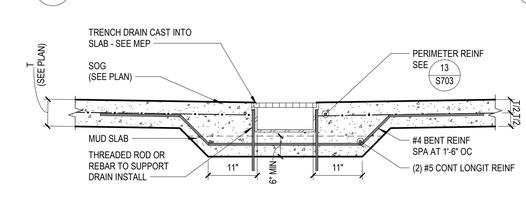
NOTES: COORDINATE ELEVATION AND PITCH OF SLABS WITH ARCH AND CIVIL.

12 S703 STOOP AT EXTERIOR OVERHEAD DOOR
SCALE: N.T.S.



NOTE: WHERE A SLAB CONSTRUCTION JOINT OCCURS BELOW A PARTITION, PROVIDE 1/2" DIA x 18" LONG DOWELS AT 2'-0" OC USING PLASTIC SLIP DOWELS

15 S703 THICKENED SLAB DETAIL
SCALE: N.T.S.



14 S703 INTERIOR TRENCH DRAIN
SCALE: N.T.S.

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DATE	DESCRIPTION

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BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

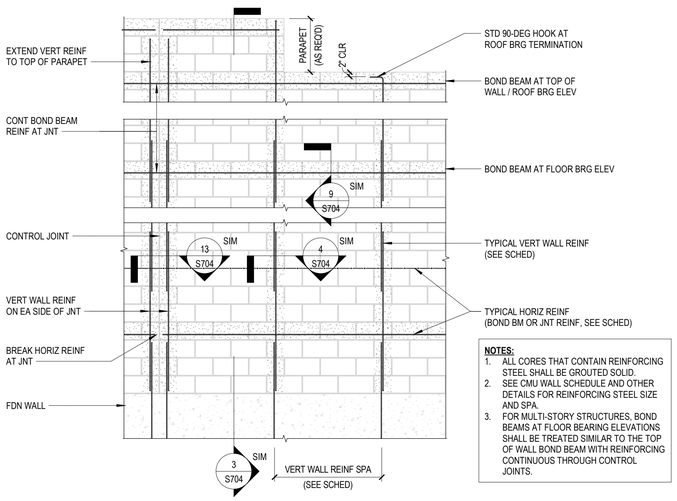
DATE
06.22.2026

SHEET TITLE
SLAB-ON-GRADE DETAILS

SHEET
S703

1 S704 TYPICAL MASONRY WALL REINFORCING (ELEVATION)

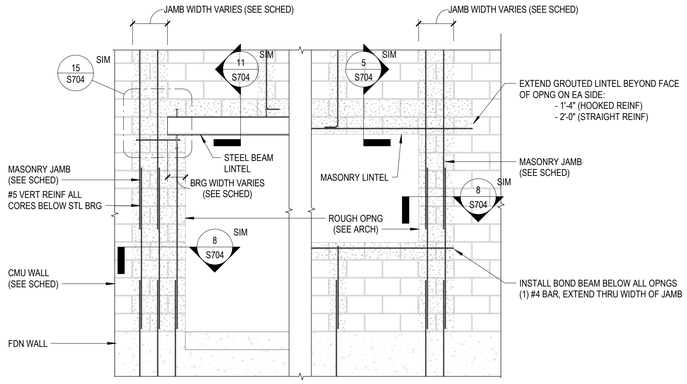
SCALE: N.T.S.



NOTES:
1. ALL CORES THAT CONTAIN REINFORCING STEEL SHALL BE GROUTED SOLID.
2. SEE CMU WALL SCHEDULE AND OTHER DETAILS FOR REINFORCING STEEL SIZE AND SPA.
3. FOR MULTI-STORY STRUCTURES, BOND BEAMS AT FLOOR BEARING ELEVATIONS SHALL BE TREATED SIMILAR TO THE TOP OF WALL BOND BEAM WITH REINFORCING CONTINUOUS THROUGH CONTROL JOINTS.

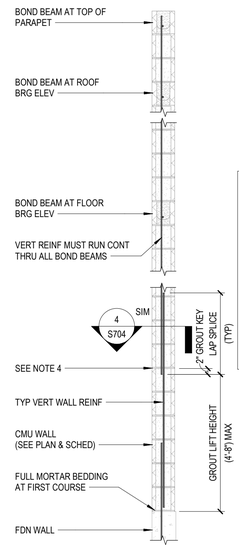
2 S704 TYPICAL MASONRY WALL REINFORCING AT OPENING

SCALE: N.T.S.



3 S704 TYPICAL MASONRY WALL REINF SECTION

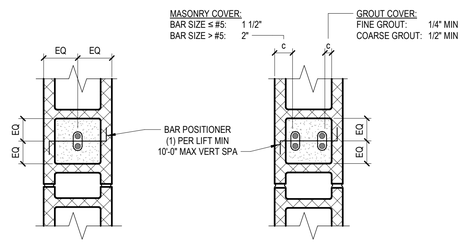
SCALE: N.T.S.



NOTES:
1. ALL CORES THAT CONTAIN REINFORCING STEEL SHALL BE GROUTED SOLID.
2. SEE CMU WALL SCHEDULE AND OTHER DETAILS FOR REINFORCING STEEL SIZE AND SPA.
3. FOR MULTI-STORY STRUCTURES, BOND BEAMS AT FLOOR BEARING ELEVATIONS SHALL BE TREATED SIMILAR TO THE TOP OF WALL BOND BEAM WITH REINFORCING CONTINUOUS THROUGH CONTROL JOINTS.
4. LAY WALL TO THIS HEIGHT; PLACE NEXT REINF BAR OR BARS; PLACE GROUT TO 2" BELOW TOP. SPACES TO BE GROUTED SHALL BE FREE OF MORTAR DROPPINGS, DEBRIS, LOOSE AGGREGATES, AND ANY MATERIAL DELETERIOUS TO MASONRY GROUT. SEQUENCING TYPICAL FOR ENTIRE WALL HEIGHT.

4 S704 REBAR LAP AND PLACEMENT DETAIL

SCALE: N.T.S.



CENTERED BAR POSITION **EACH FACE BAR POSITION**

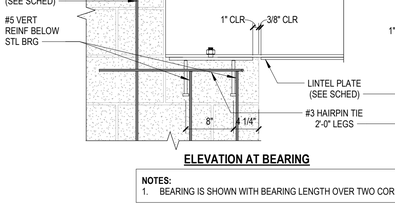
NOTES:
1. SECURE VERTICAL REINFORCING WITH BAR POSITIONERS.
2. LOCATE BAR POSITIONERS AT SPLICES, TOP AND BOTTOM OF WALLS, AND AT INTERVALS NOT EXCEEDING 10'-0".
3. TOLERANCES FOR PLACEMENT OF REINFORCING BARS:
   - A. PARALLEL TO WALL: ±1/2" (WALL SIZE ≤ 8" NOM); ±1" (WALL SIZE > 8" NOM)
   - B. PERPENDICULAR TO WALL: ±1/2" (CENTERED BAR POSITION); +1/2" -1/4" (EF BAR POSITION, TOWARD INSIDE); (EF BAR POSITION, TOWARD OUTSIDE)

CMU DEVELOPMENT AND LAP SPLICE LENGTH SCHEDULE
(f'_m = 2,000 PSI)

BAR SIZE	CENTERED BAR POSITION						EACH FACE BAR POSITION
	6" UNIT	8" UNIT	10" UNIT	12" UNIT	14" UNIT	16" UNIT	
#4	17"	12"	12"	12"	12"	12"	22"
#5	27"	19"	15"	12"	12"	12"	34

5 S704 MASONRY LINTEL DETAIL

SCALE: N.T.S.

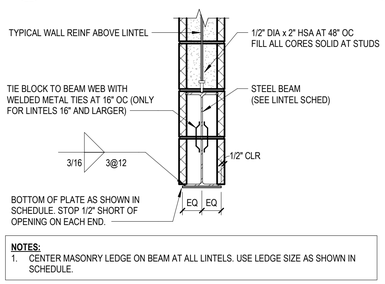


NOTES:
1. DETAIL FOR MASONRY LINTELS THAT DO NOT REQ STIRRUP REINF.
2. SEE LINTEL SCHED FOR END BEARING LENGTH. PROVIDE 8" (MIN) END BEARING, UNO.
3. SEE LINTEL SCHED FOR JAMB REINF AT BEARING. PROVIDE (1) #4 BAR (MIN), UNO.

* THE ACTUAL ROUGH OPENING WILL TYPICALLY BE 3/8" LARGER THAN LISTED.

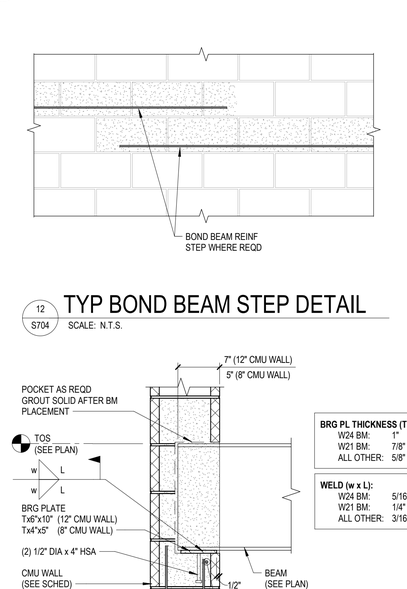
6 S704 BOND BEAM AT CORNER

SCALE: N.T.S.



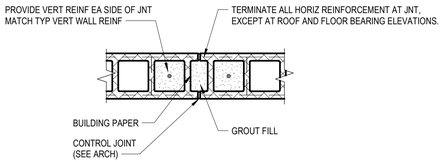
7 S704 BOND BEAM AT INTERSECTION

SCALE: N.T.S.



8 S704 MASONRY WALL JAMB DETAIL

SCALE: N.T.S.



JAMB FOR STEEL LINTEL

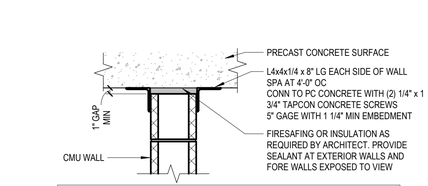
JAMB FOR MASONRY LINTEL

NOTES:
1. GROUT ALL REINFORCED CELLS SOLID.
2. CONTINUE REINFORCEMENT TO FULL HEIGHT OF WALL.

* MASONRY CONTROL JOINTS NOT TO BE LOCATED WITHIN THIS DISTANCE.

9 S704 TYPICAL BOND BEAM (MID-HEIGHT)

SCALE: N.T.S.



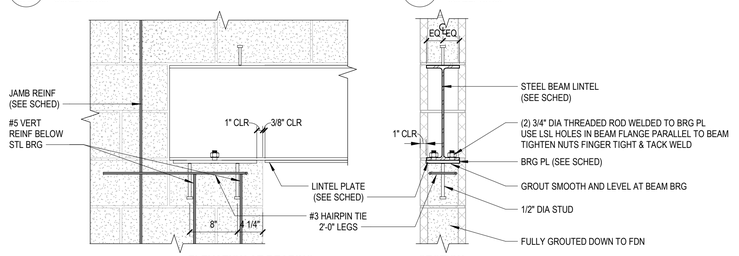
10 S704 TYP BOND BEAM (TOP OF WALL)

SCALE: N.T.S.

NOTE: FOR REINFORCING STEEL COVER REQUIREMENTS, SEE 4 S704

11 S704 STEEL LINTEL DETAIL

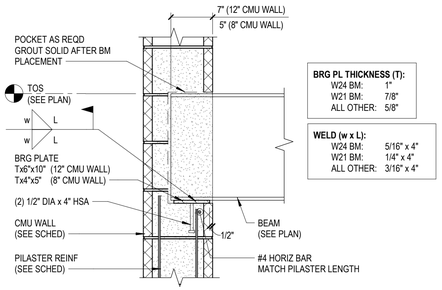
SCALE: N.T.S.



NOTES:
1. BEARING IS SHOWN WITH BEARING LENGTH OVER TWO CORES. LINTEL MAY BEAR ON ONE CORE (SEE SCHED).

12 S704 TYP BOND BEAM STEP DETAIL

SCALE: N.T.S.



BRG PL THICKNESS (T):
W24 BM: 1"
W21 BM: 7/8"
ALL OTHER: 5/8"

WELD (w x L):
W24 BM: 5/16" x 4"
W21 BM: 1/4" x 4"
ALL OTHER: 3/16" x 4"

13 S704 TYPICAL MASONRY CONTROL JOINT

SCALE: N.T.S.

14 S704 NON-BEARING WALL LATERAL SUPPORT

SCALE: N.T.S.

NOTE:
1. DETAILS APPLY WHEREVER THE DISTANCE BETWEEN CROSS WALLS EXCEEDS 20 TIME WALL THICKNESS, UNO
2. ANGLES AND SCREWS SUPPLIED BY STEEL SUPPLIER, INSTALLED BY MASON.
3. SIMILAR AT STRUCTURAL STEEL FRAMING. WELD ANGLES TO STEEL W/ 3/16" x 2" FILLETS.
4. AT METAL DECK LOCATION, PROVIDE (2) HILTI X-HSN 24 PAF THROUGH METAL DECK INTO STEEL ANGLE.

15 S704 STEEL LINTEL BEARING

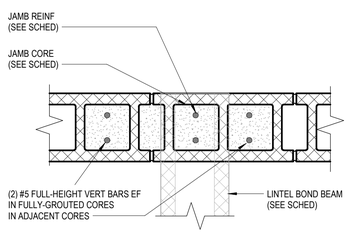
SCALE: N.T.S.

16 S704 STEEL BEAM BEARING ON MASONRY WALL

SCALE: N.T.S.

17 S704 LINTEL L-5 JAMB REINFORCING

SCALE: N.T.S.



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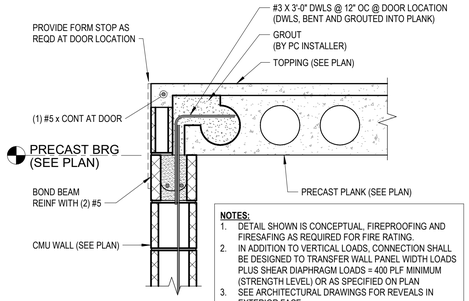
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23-1964.00

DATE
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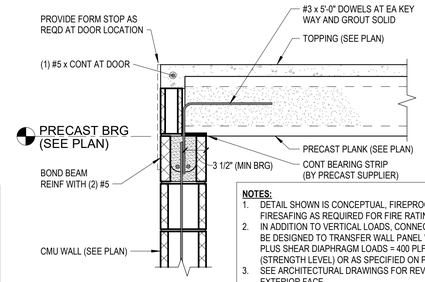
SHEET TITLE
CMU DETAILS

SHEET
S704



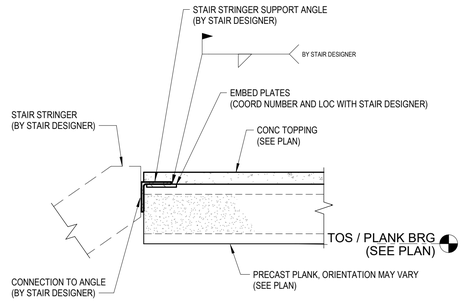
NOTES:
1. DETAIL SHOWN IS CONCEPTUAL, FIREPROOFING AND FIRESAFING AS REQUIRED FOR FIRE RATING.
2. IN ADDITION TO VERTICAL LOADS, CONNECTION SHALL BE DESIGNED TO TRANSFER WALL PANEL WIDTH LOADS PLUS SHEAR DIAPHRAGM LOADS = 400 PLF MINIMUM (STRENGTH LEVEL) OR AS SPECIFIED ON PLAN
3. SEE ARCHITECTURAL DRAWINGS FOR REVEALS IN EXTERIOR FACE
4. STRUCTURAL WALL LAYER IS ASSUMED GROUTED SOLID.

1 S705 PC PLANK AT MASONRY WALL OPENING
SCALE: N.T.S.

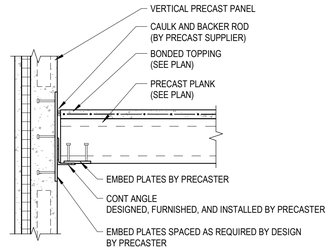


NOTES:
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3. SEE ARCHITECTURAL DRAWINGS FOR REVEALS IN EXTERIOR FACE
4. STRUCTURAL WALL LAYER IS ASSUMED GROUTED SOLID.

2 S705 PC PLANK BEARING ON MASONRY WALL
SCALE: N.T.S.

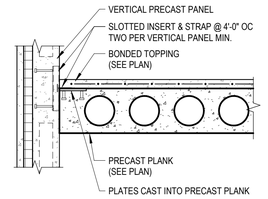


3 S705 STAIR STRINGER AT PC PLANK
SCALE: N.T.S.



NOTES:
1. DETAIL SHOWN IS CONCEPTUAL, ENTIRE CONNECTION DESIGN BY PRECASTER; FIREPROOFING AND FIRESAFING AS REQUIRED FOR FIRE RATING.
2. IN ADDITION TO VERTICAL LOADS, CONNECTION SHALL BE DESIGNED TO TRANSFER WALL PANEL WIDTH LOADS PLUS SHEAR DIAPHRAGM LOADS = 400 PLF MINIMUM (STRENGTH LEVEL) OR AS SPECIFIED ON PLAN
3. SEE ARCHITECTURAL DRAWINGS FOR REVEALS IN EXTERIOR FACE
4. STEEL ELEMENTS SHALL BE STAINLESS STEEL IN TRUCK WASH.
5. STRUCTURAL WALL LAYER IS ASSUMED SOLID. PRECASTER OPTION FOR HOLLOW STRUCTURAL PANEL WITH SOLID REGIONS AT EMBED PLATES.

4 S705 PLANK BRG AT WALL (LOAD BEARING)
SCALE: N.T.S.



NOTES:
1. DETAIL SHOWN IS CONCEPTUAL, ENTIRE CONNECTION DESIGN BY PRECASTER; FIREPROOFING AND FIRESAFING AS REQUIRED FOR FIRE RATING.
2. IN ADDITION TO VERTICAL LOADS, CONNECTION SHALL BE DESIGNED TO TRANSFER WALL PANEL WIDTH LOADS PLUS SHEAR DIAPHRAGM LOADS = 400 PLF MINIMUM (STRENGTH LEVEL) OR AS SPECIFIED ON PLAN
3. SEE ARCHITECTURAL DRAWINGS FOR REVEALS IN EXTERIOR FACE
4. STEEL ELEMENTS SHALL BE STAINLESS STEEL IN TRUCK WASH.
5. STRUCTURAL WALL LAYER IS ASSUMED SOLID. PRECASTER OPTION FOR HOLLOW STRUCTURAL PANEL WITH SOLID REGIONS AT EMBED PLATES.

5 S705 PLANK AT WALL (NON-LOAD BEARING)
SCALE: N.T.S.

NOTES:
1. DETAIL SHOWN IS CONCEPTUAL, ENTIRE CONNECTION DESIGN BY PRECASTER. PRECASTER SHALL DETERMINE LOCATIONS AT WHICH THIS CONNECTION IS APPLICABLE.
2. ALL MATERIALS INCLUDING STEEL PLATES, TUBE BOLTS, GROUT, ETC. DESIGNED, FURNISHED & INSTALLED BY PRECASTER.
3. SEE ARCHITECTURAL FOR ADDITIONAL PAINT REQUIREMENTS

6 S705 OVERHEAD DOOR HEADER DETAIL
SCALE: N.T.S.

NOTE: DETAIL SHOWN IS CONCEPTUAL AND SHALL BE COORDINATED AND DESIGNED IN FULL BY THE PRECAST AND PEMB SUPPLIERS.

7 S705 PRECAST TO GIRT TRANSFER DETAIL
SCALE: N.T.S.

8 S705 BEAM CONN TO PC WALL
SCALE: N.T.S.

9 S705 PLANK BRG AT ST BEAM
SCALE: N.T.S.

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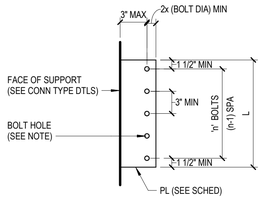
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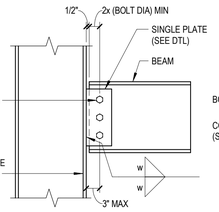
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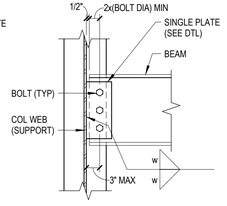
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PRECAST DETAILS

SHEET
S705



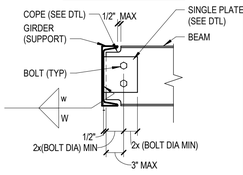




TYPICAL SINGLE PLATE

TYPE A
(BEAM-TO-COLUMN FLANGE)

TYPE B
(BEAM-TO-COLUMN WEB)



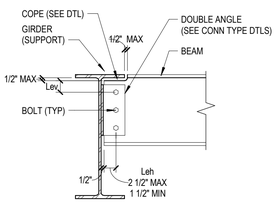
TYPE C
(BEAM-TO-GIRDER)

BEAM SINGLE PLATE CONNECTION SCHEDULE

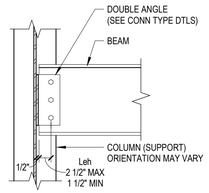
BEAM	TYPE	PLATE		BOLTS			WELD	COMMENTS
		L (IN)	THK (IN)	ASTM DESIG	DIA (IN)	n	w (IN)	
W8 & W10	B	6"	1/4"	A325	3/4"	2	1/4"	
C10	B	6"	1/4"	A325	3/4"	2	1/4"	
W14	B	9"	1/4"	A325	3/4"	3	1/4"	
W16	B	12"	1/4"	A325	3/4"	4	1/4"	
W18X35	B	15"	1/4"	A325	3/4"	5	1/4"	
W18X86	A	15"	3/8"	A325	3/4"	5	1/4"	
W27	A	9"	1/4"	A325	3/4"	3	1/4"	

NOTE: FOR PLATES WITH ≤5 BOLTS IN A VERTICAL ROW, STD OR HORIZ SSLT HOLES MAY BE USED. FOR PLATES WITH >5 BOLTS IN A VERTICAL ROW, HORIZ SSLT HOLES ARE REQ'D.

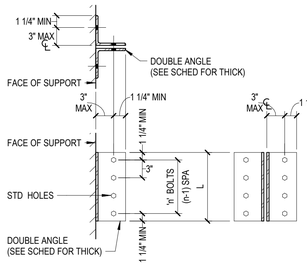
1 S706 BEAM SINGLE PLATE CONNECTION
SCALE: N.T.S.



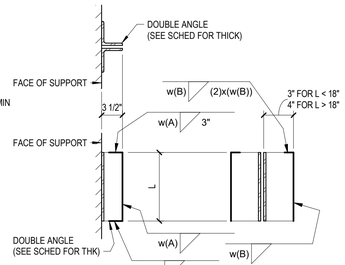
BEAM-TO-GIRDER



BEAM-TO-COLUMN



TYPE A
(ALL-BOLTED)



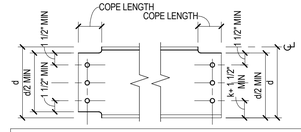
TYPE B
(ALL-WELDED)

BEAM DOUBLE ANGLE CONNECTION SCHEDULE

BEAM	TYPE	BEAM WEB		ANGLE		BOLTS			WELD		COMMENTS
		MIN Leh (IN)	MIN Lev (IN)	L (IN)	THICK (IN)	ASTM DESIG	DIA (IN)	n	w(A) (IN)	w(B) (IN)	
W33X118	A	1 1/2"	1 1/2"	21"	3/8"	A325	3/4"	7	--	--	USE L4x3 1/2x3/8 (SHORT LEG OUTSTANDING) - COLUMN SIDE
W33X118	B	1 1/2"	1 1/2"	21"	3/8"	--	--	--	3/16"	1/4"	USE L4x3 1/2x3/8 (SHORT LEG OUTSTANDING) - PRECAST SIDE

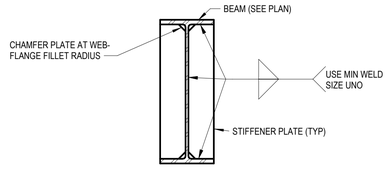
NOTES:
1. CONTRACTOR SHALL DETERMINE ANGLE LEG DIMENSIONS AND ANGLE LENGTH TO MEET CONNECTION REQUIREMENTS SHOWN ABOVE.
2. DIMENSION "I" IS THE INSIDE DISTANCE BETWEEN SUPPORTED BEAM FILLETS.
3. IF TWO DOUBLE ANGLE CONNECTIONS ARE BACK-TO-BACK AND BOLTED TO THE SUPPORT, ENSURE BOLT HOLES LINE UP FOR BOTH CONNECTIONS IN THE SUPPORTING MEMBER.

9 S706 BEAM DOUBLE ANGLE CONNECTION
SCALE: N.T.S.

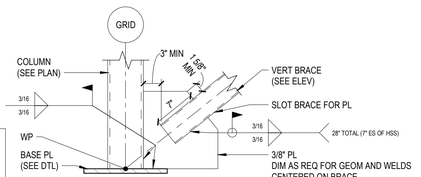


NOTES:
1. ALL HOLES IN BEAM ARE STANDARD HOLES.
2. TYPICAL COPE RADIUS IS 1/2-INCH.
3. CONTRACTOR SHALL DETERMINE COPE DIMENSIONS TO MEET CONNECTION REQUIREMENTS (SEE CONNECTION DETAILS) AND ELIMINATE CONFLICTS WITH SUPPORT.
4. COPE DIMENSIONS SHALL BE MINIMIZED AS MUCH AS PRACTICAL AND SHALL MAINTAIN 1/2" CLEARANCE TO EDGES OF SUPPORTING MEMBER.

2 S706 BEAM COPE GEOMETRY
SCALE: N.T.S.

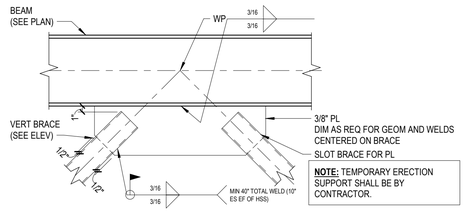


6 S706 TYPICAL STIFFENER PLATE
SCALE: N.T.S.



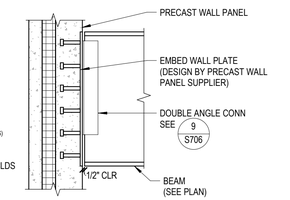
NOTE: TEMPORARY ERECTION SUPPORT SHALL BE BY CONTRACTOR.

3 S706 VERT BRACE CONN AT COL BASE
SCALE: N.T.S.

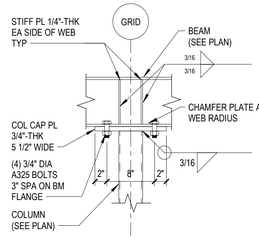


NOTE: TEMPORARY ERECTION SUPPORT SHALL BE BY CONTRACTOR.

7 S706 VERT CHEVRON BRACE CONN AT BEAM
SCALE: N.T.S.

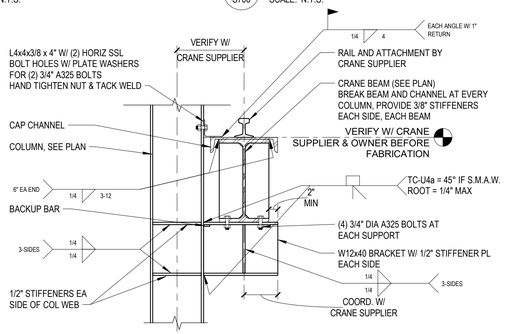


4 S706 BEAM CONN TO PC WALL
SCALE: N.T.S.

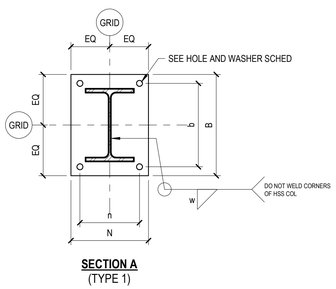


NOTE: AT BEAMS WITH FLANGE WIDTHS OF 4", PROVIDE ADDITIONAL MATCH PLATE BETWEEN COLUMN CAP PLATE AND UNDERSIDE OF BEAM FLANGE. MATCH PLATE TO BE BOLTED TO COLUMN CAP PLATE. PROVIDE 1/4" FILLET WELD TO BEAM FLANGES FOR FULL CONTACT LENGTH.

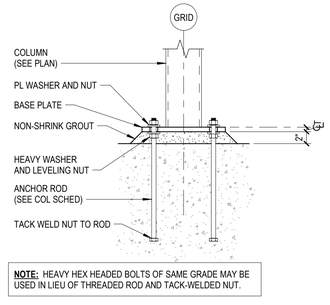
5 S706 BEAM BEARING ON COL CAP PL
SCALE: N.T.S.



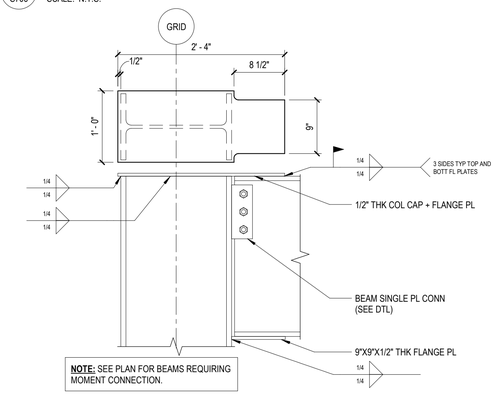
8 S706 CRANE BEAM SUPPORT
SCALE: N.T.S.



SECTION A
(TYPE 1)



NOTE: HEAVY HEX HEADED BOLTS OF SAME GRADE MAY BE USED IN LIEU OF THREADED ROD AND TACK-WELDED NUT.



NOTE: SEE PLAN FOR BEAMS REQUIRING MOMENT CONNECTION.

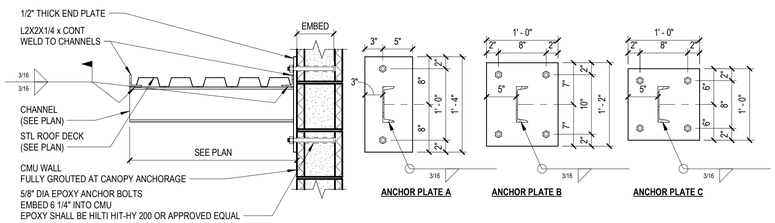
COLUMN BASE PLATE SCHEDULE

MARK	BASE PLATE				ANCHOR BOLTS					WELD	COMMENTS
	TYPE	B (IN)	N (IN)	T (IN)	ASTM DESIG	DIA (IN)	EMBED (IN)	b (IN)	n (IN)	w (IN)	
BP-1	1	14"	14"	1"	F1554	1"	8"	7"	7"	5/16"	
BP-2	1	12"	20"	1"	F1554	1"	8"	8"	12"	5/16"	
BP-3	1	12"	12"	3/4"	F1554	3/4"	12"	8"	8"	3/16"	

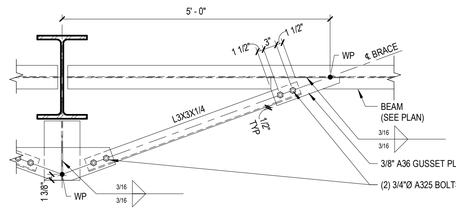
ANCHOR BOLT HOLE AND WASHER SIZES

AB DIAMETER (IN)	AB HOLE DIAMETER (IN)	MIN WASHER SIZE (IN)	MIN WASHER THICK (IN)
3/4"	1-5/16"	2"	1/4"
1"	1-7/8"	3"	3/8"
1-1/4"	2-1/8"	3-1/2"	1/2"
1-1/2"	2-3/8"	4"	1/2"

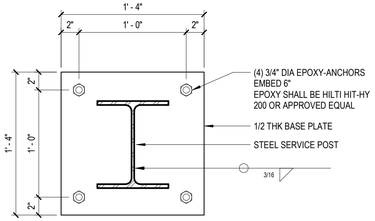
10 S706 COLUMN BASE PLATE CONNECTION
SCALE: N.T.S.



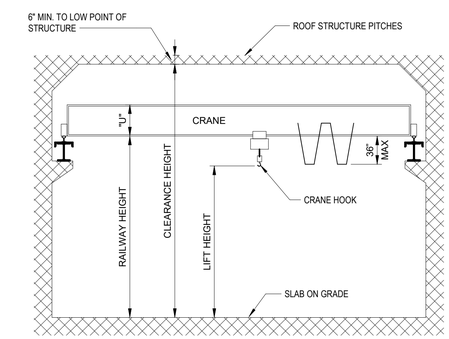
11 S706 MOMENT CONN AT COLUMN TOP PLATE
SCALE: N.T.S.



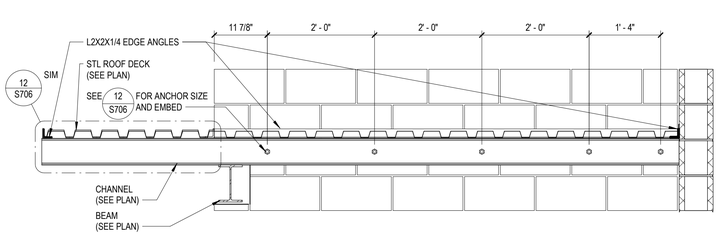
12 S706 CANOPY CHANNEL FRAMING & ANCHORS
SCALE: 1" = 1'-0"



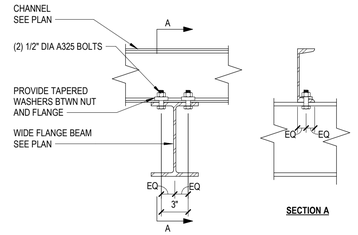
13 S706 RUNWAY BEAM HORIZ BRACING
SCALE: N.T.S.



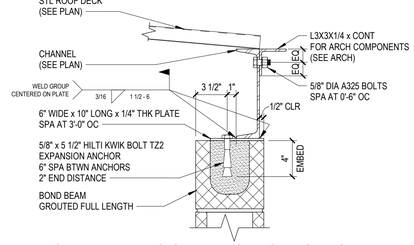
14 S706 STEEL SERVICE POST BASE PLATE
SCALE: N.T.S.



15 S706 CHANNEL LEDGER FRAMING
SCALE: 3/4" = 1'-0"



16 S706 CHANNEL BRG ON WIDE FLANGE
SCALE: 1 1/2" = 1'-0"



17 S706 CHANNEL CONN TO TOP OF CMU
SCALE: N.T.S.

-PRIOR TO SHOP DRAWINGS, OWNER SHALL SELECT CRANE SUPPLIER AND CRANE SPECIFICATIONS SHALL BE PROVIDED. COORDINATE WITH OWNER AND CRANE SUPPLIER.
1. LIFT HEIGHT TO HOOK AND RUNWAY HEIGHT MEET OWNER CRITERIA.
2. VERIFY 6" MIN. CLEARANCE TO LOW POINT OF ROOF STRUCTURE.
3. VERIFY TOP OF CHANNEL ELEVATION AT CRANE GIRDER.
4. VERIFY CRANE WHEEL LOAD AND SPACING AGREE WITH STRUCTURAL DRAWINGS. NOTIFY ENGINEER IF EXCEEDING.

18 S706 CRANE SIDE VIEW
SCALE: N.T.S.

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REVISIONS

	DATE	DESCRIPTION
1		

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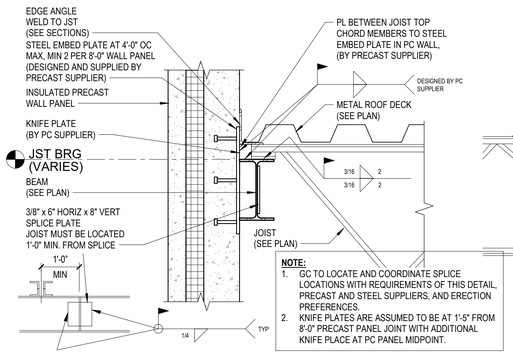
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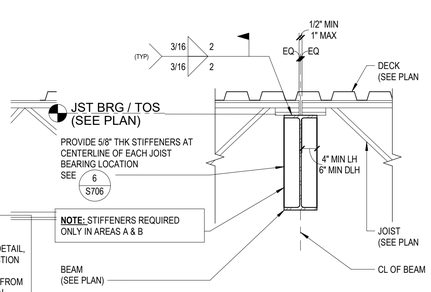
DATE
06.22.2026

SHEET TITLE
STRUCTURAL STEEL DETAILS

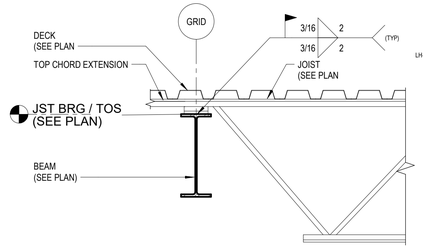
SHEET
S706



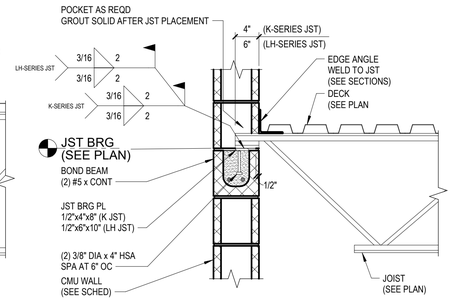
1 S707 JOIST BEARING ON PRECAST WALL PANEL
SCALE: N.T.S.



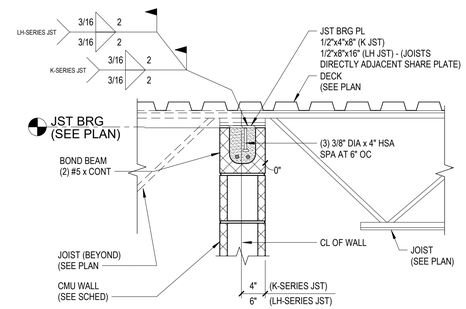
2 S707 JOISTS BEARING ON STEEL BEAM
SCALE: N.T.S.



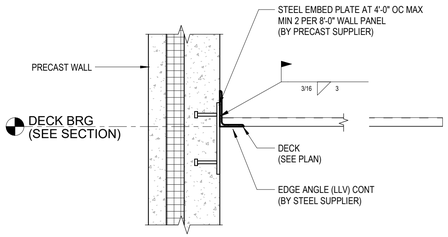
3 S707 JOIST BEARING ON STEEL BEAM
SCALE: N.T.S.



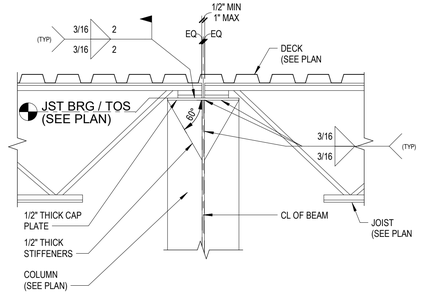
4 S707 JOIST BEARING ON MASONRY WALL
SCALE: N.T.S.



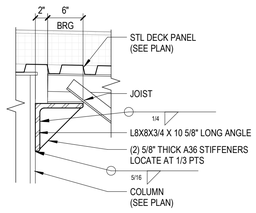
5 S707 JOISTS BEARING ON MASONRY WALL
SCALE: N.T.S.



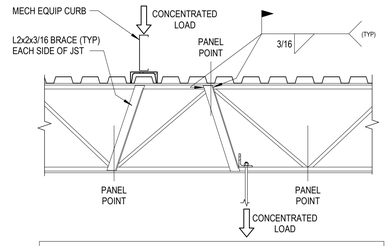
6 S707 STEEL DECK BEARING AT PRECAST WALL
SCALE: N.T.S.



7 S707 JOIST BRG ON WIDE FLANGE COLUMN
SCALE: N.T.S.

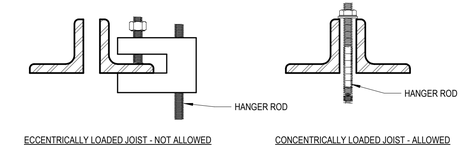


8 S707 JOIST BRG AT STIFFENED SEAT
SCALE: N.T.S.



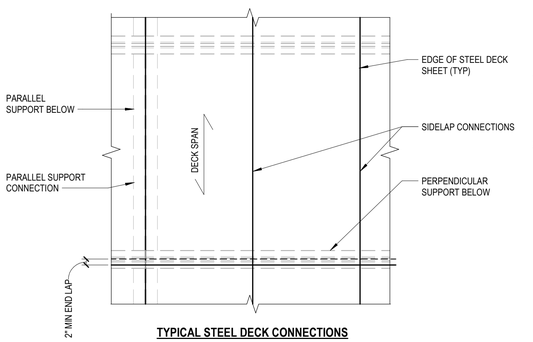
NOTES:
1. WHEN CONCENTRATED LOADS DO NOT ALIGN WITH JOIST PANEL POINT, ADD BRACE AS SHOWN FROM CL OF LOAD TO NEAREST PANEL POINT.
2. BRACE IS NOT REQUIRED IF LOAD OCCURS WITHIN 3" OF JOIST PANEL POINT.
3. IF JOIST CHORD THICKNESS IS LESS THAN 3/16", USE AN EQUIVALENT 1/8" WELD.
4. DETAIL APPLIES TO LOADS ABOVE OR HUNG BELOW JOISTS.

9 S707 JOIST REINF AT CONCENTRATED LOADS
SCALE: N.T.S.



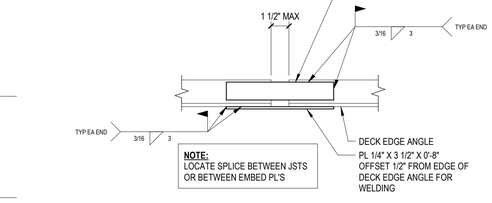
NOTE: DESIGN OF HANGERS BY CONTRACTOR, UNO

10 S707 HUNG LOADS FROM STEEL JOISTS
SCALE: N.T.S.



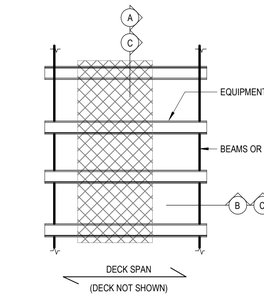
TYPICAL STEEL DECK CONNECTIONS

11 S707 STEEL DECK AND CONCRETE SLAB
SCALE: N.T.S.



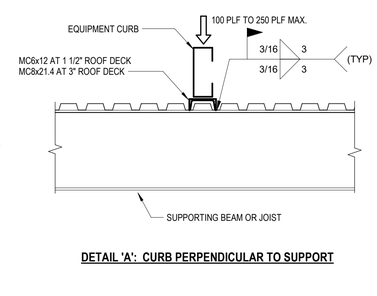
NOTE:
LOCATE SPLICE BETWEEN JSTS
OR BETWEEN EMBED PL'S

12 S707 DECK SUPPORT ANGLE SPLICE
SCALE: N.T.S.

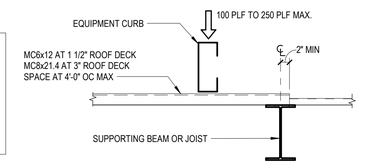


PLAN

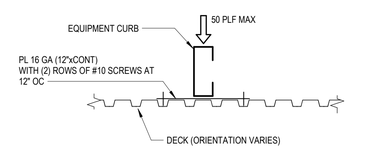
NOTES:
1. FOR EQUIP WITH NET WEIGHT LESS THAN 200 LBS, CURB MAY BE SUPPORTED ON ROOF DECK.
2. FOR EQUIP WITH CURB LOADS LESS THAN 50 PLF, USE DETAIL 'C'.
3. FOR EQUIP WITH CURB LOADS LESS THAN 100 PLF, PROVIDE DOUBLE LAYER OF DECK AND DETAIL 'C'. EXTEND DOUBLE DECK 1'-0" MIN EACH SIDE OF CURB AND 2" MIN. PAST ADJACENT SUPPORT MEMBER.
4. FOR EQUIP WITH CURB LOADS GREATER THAN 100 PLF USE DETAILS 'A' AND 'B'.



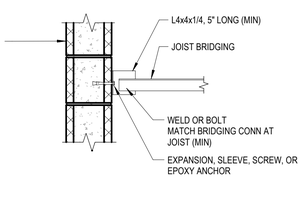
DETAIL 'A': CURB PERPENDICULAR TO SUPPORT



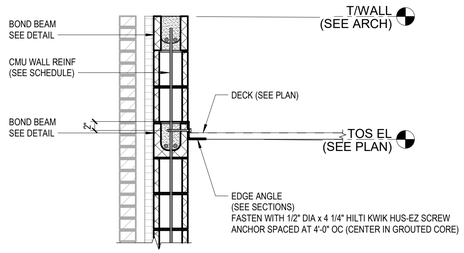
DETAIL 'B': CURB PARALLEL TO SUPPORT



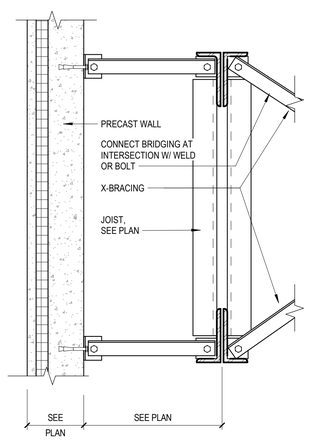
DETAIL 'C': SMALL EQUIPMENT



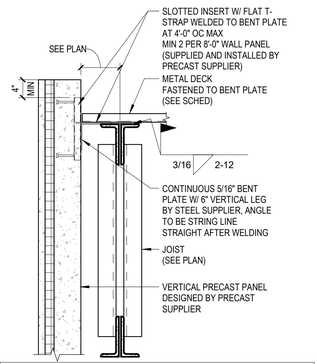
13 S707 JOIST BRIDGING AT CMU WALL
SCALE: N.T.S.



14 S707 STEEL DECK BEARING AT CMU
SCALE: N.T.S.



15 S707 JOIST BRIDGING AT PRECAST WALL
SCALE: N.T.S.



NOTES:
1. PRECASTER SHALL HAVE STRUCTURE SUITABLY BRACED AND ROOF DECK INSTALLED SO AS TO GUARANTEE NO HORIZONTAL DEFLECTION OF JOIST BEFORE PRECAST PANEL IS INSTALLED.
2. SEE PLAN FOR ROOF DECK FASTENING TO BENT PLATE
3. CONTINUOUS ANGLE SHALL BE BUTT WELDED AT JOISTS OR EQUIVALENT AREA SPLICES TO DEVELOP TENSION CAPACITY AS DECK DIAPHRAGM CHORD MEMBER.

16 S707 PRECAST WALL TO JOIST
SCALE: N.T.S.

17 S707 STEEL DECK EQUIPMENT SUPPORT
SCALE: N.T.S.

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Jackson County Highway Facility
N5579 STATE HIGHWAY 54, Black River Falls, WI 54615

REVISIONS
DATE DESCRIPTION

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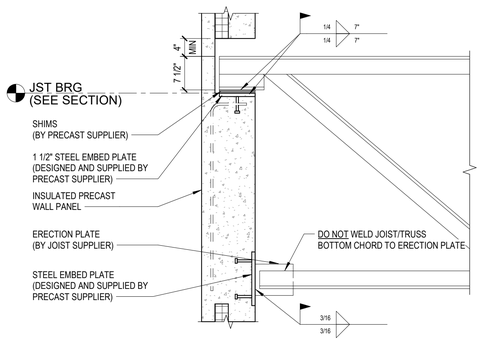
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BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

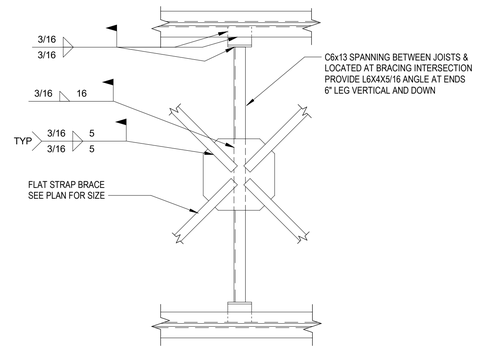
SHEET TITLE
STEEL JOIST DETAILS

SHEET
S707



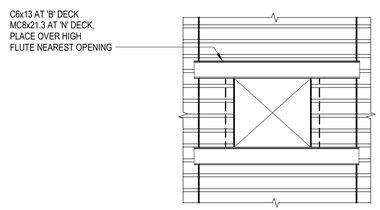
1 S708 JOIST GIRDER BEARING ON PRECAST WALL

SCALE: N.T.S.

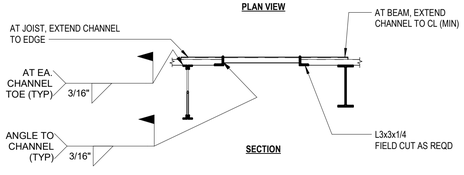


2 S708 TO JOIST FLAT STRAPPING

SCALE: N.T.S.

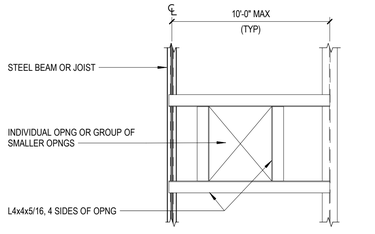


PLAN VIEW

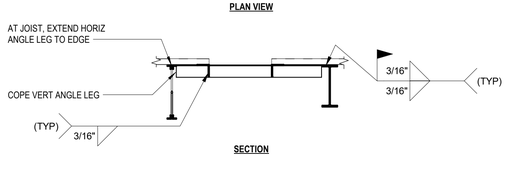


SECTION

ALTERNATE FRAME OPTION 1



PLAN VIEW

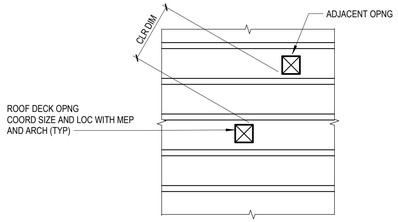


SECTION

ALTERNATE FRAME OPTION 2

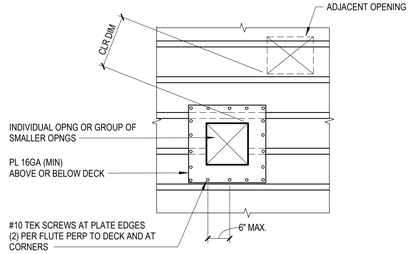
OPENINGS LARGER THAN 13"

NOTES:
FOR CLEAR DIMENSION MEASURED IN ANY DIRECTION:
A. IF CLR DIM ≥ 18", NO REINF REQD;
B. IF CLR DIM < 18", TREAT GROUP AS INDIVIDUAL OPNG WITH EXTENTS AS SHOWN AND PROVIDE REINF PLATE OR FRAME.



OPENINGS UP TO 6"

NOTES:
FOR CLEAR DIMENSION MEASURED IN ANY DIRECTION:
A. IF CLR DIM ≥ 24", PROVIDE REINF PLATE AS SHOWN;
B. IF CLR DIM < 18", TREAT GROUP AS INDIVIDUAL OPNG WITH EXTENTS AS SHOWN AND PROVIDE FRAME.



OPENINGS LARGER THAN 6" UP TO 13"

OPENINGS SMALLER THAN 13"

3 S708 STEEL DECK ROOF OPENING

SCALE: N.T.S.

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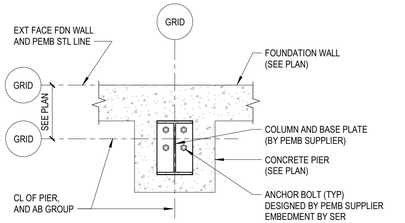
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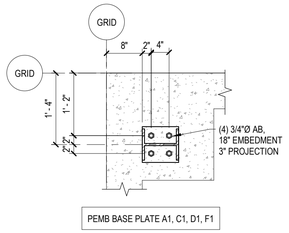
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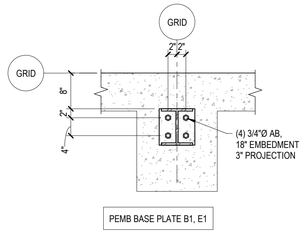
SHEET TITLE
STEEL JOIST DETAILS

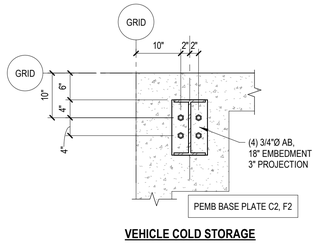
SHEET
S708



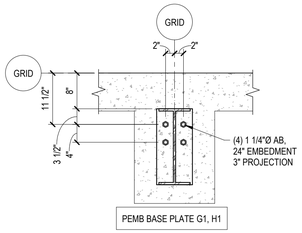
NOTE: BASE PLATE AND ANCHOR BOLTS SHOWN ABOVE REFLECT ASSUMPTIONS USED IN FOUNDATION DESIGN. BASE PLATE AND ANCHOR BOLT DESIGN ARE THE RESPONSIBILITY OF THE PEMB DELEGATED DESIGNER. ANY VARIATION FROM DETAIL SHALL BE SUBMITTED TO SER FOR APPROVAL PRIOR TO FABRICATION.

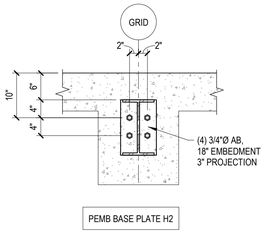


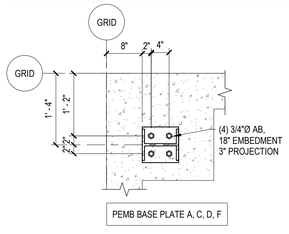


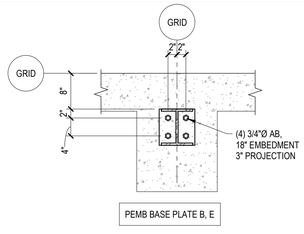


VEHICLE COLD STORAGE

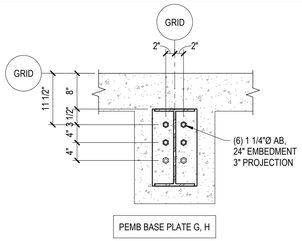








EQUIPMENT COLD STORAGE



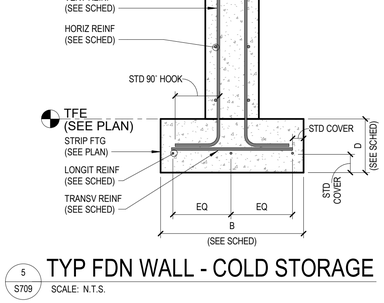
NOTE: BASE PLATE AND ANCHOR BOLTS SHOWN REFLECT ASSUMPTIONS USED IN FOUNDATION DESIGN. BASE PLATE AND ANCHOR BOLT DESIGN IS THE RESPONSIBILITY OF THE PEMB DELEGATED DESIGNER. ANY VARIATION FROM DETAIL SHALL BE SUBMITTED TO SER FOR APPROVAL PRIOR TO FABRICATION. GENERAL CONTRACTOR IS TO VERIFY PEMB BASE PLATE AND ANCHOR BOLT DIMENSIONS AND LOCATIONS IN THIS DETAIL WITH FINAL PEMB BUILDING DRAWINGS PRIOR TO CONSTRUCTION OF BUILDING FOUNDATIONS.

1 S709 TYPICAL PEMB BASE PLATE

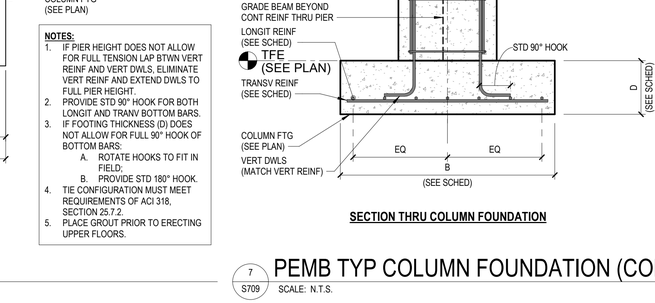
SCALE: N.T.S.

2 S709 PEMB ANCHOR BOLT LAYOUTS

SCALE: N.T.S.



NOTE:
HAIRPIN REINFORCEMENT SHALL BE CONTINUOUS THROUGH COLD JOINT. CONTRACTOR OPTION TO PROVIDE FORM SAVERS OR OTHER MECHANICAL SPLICES, BUT SHALL SUBMIT SPECIFICATIONS OF THESE SUBSTITUTIONS TO SER FOR APPROVAL. MECHANICAL SPLICES SHALL CONFORM TO ACI 318 REQUIREMENTS FOR TYPE 2 MECHANICAL SPLICES AND SHALL DEVELOP THE SPECIFIED TENSILE STRESS OF THE REINFORCING BAR.



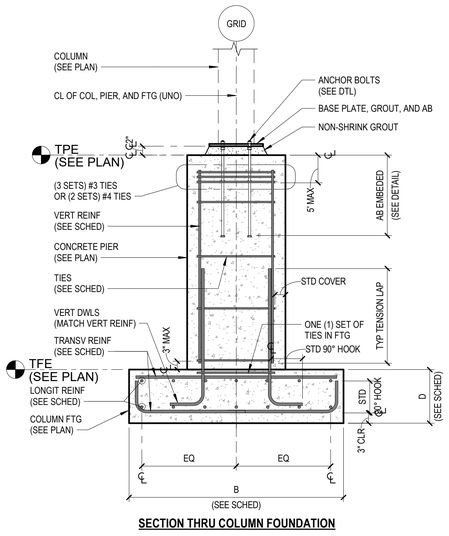
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HAIRPIN REINFORCEMENT SHALL BE CONTINUOUS THROUGH COLD JOINT. CONTRACTOR OPTION TO PROVIDE FORM SAVERS OR OTHER MECHANICAL SPLICES, BUT SHALL SUBMIT SPECIFICATIONS OF THESE SUBSTITUTIONS TO SER FOR APPROVAL. MECHANICAL SPLICES SHALL CONFORM TO ACI 318 REQUIREMENTS FOR TYPE 2 MECHANICAL SPLICES AND SHALL DEVELOP THE SPECIFIED TENSILE STRESS OF THE REINFORCING BAR.

3 S709 PEMB EXTERIOR COLUMN FOUNDATION - VEHICLE COLD STORAGE

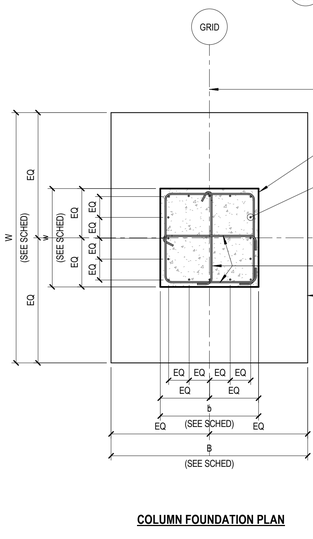
SCALE: N.T.S.

4 S709 PEMB EXTERIOR COLUMN FOUNDATION - EQUIPMENT COLD STORAGE

SCALE: N.T.S.

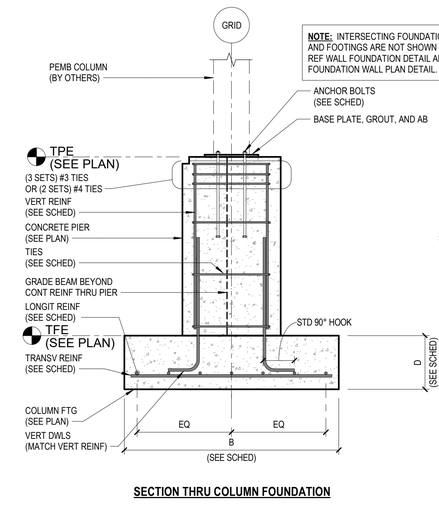


SECTION THRU COLUMN FOUNDATION

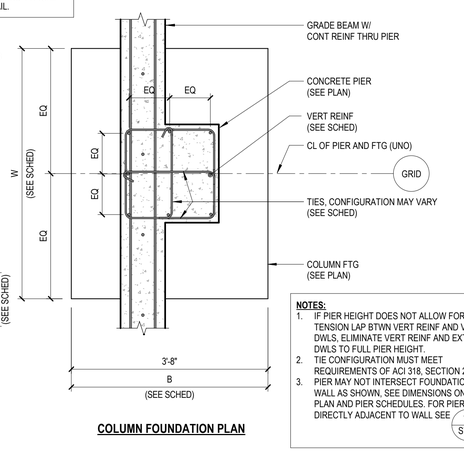


NOTES:
1. IF PIER HEIGHT DOES NOT ALLOW FOR FULL TENSION LAP BTWN VERT REINF AND VERT DWLS, ELIMINATE VERT REINF AND EXTEND DWLS TO FULL PIER HEIGHT.
2. PROVIDE STD 90° HOOK FOR BOTH LONGIT AND TRANV BOTTOM BARS.
3. IF FOOTING THICKNESS (D) DOES NOT ALLOW FOR FULL 90° HOOK OF BOTTOM BARS:
   A. ROTATE HOOKS TO FIT IN FIELD;
   B. PROVIDE STD 180° HOOK.
4. TIE CONFIGURATION MUST MEET REQUIREMENTS OF ACI 318, SECTION 25.7.2.
5. PLACE GROUT PRIOR TO ERECTING UPPER FLOORS.

COLUMN FOUNDATION PLAN



SECTION THRU COLUMN FOUNDATION



NOTES:
1. IF PIER HEIGHT DOES NOT ALLOW FOR FULL TENSION LAP BTWN VERT REINF AND VERT DWLS, ELIMINATE VERT REINF AND EXTEND DWLS TO FULL PIER HEIGHT.
2. TIE CONFIGURATION MUST MEET REQUIREMENTS OF ACI 318, SECTION 25.7.2.
3. PIER MAY NOT INTERSECT FOUNDATION WALL AS SHOWN. SEE DIMENSIONS ON PLAN AND PIER SCHEDULES. FOR PIERS DIRECTLY ADJACENT TO WALL SEE 13 S701

COLUMN FOUNDATION PLAN

5 S709 TYP FDN WALL - COLD STORAGE

SCALE: N.T.S.

6 S709 PEMB TYP COLUMN FOUNDATION (CONCRETE PIER ON FTG)

SCALE: N.T.S.

7 S709 PEMB TYP COLUMN FOUNDATION (CONCRETE PIER ON FTG W/ WALL)

SCALE: N.T.S.

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PLAN EXAM SET

SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
23-1964.00

DATE
06.22.2026

SHEET TITLE
PEMB FOUNDATION DETAILS

SHEET
S709

GENERAL PLAN SYMBOLS

- PLAN REVISION NUMBER
- DETAIL NUMBER ON SHEET / SHEET NUMBER WHERE DETAIL IS PLACED
- KEYNOTE SYMBOL
- CONTINUATION SYMBOL
- POINT WHERE NEW CONNECTS TO EXISTING
- Room 2 — ROOM NAME / NUMBER
- AREA BEING DEMOLISHED
- AREA NOT IN CONTRACT

ABBREVIATIONS

A, AMP	AMPERE	HVAC	HEATING, VENTILATING AND AIR CONDITIONING
ABV	ABOVE	HWP	HOT-WATER PUMP
AC	AIR CONDITIONING	HYD	HYDRANT
ACCU	AIR COOLED CONDENSING UNIT	ID	INDIRECT
AD	AREA DRAIN	IN	INCH
ADD	ADDENDUM	INV	INVERT
AFF	ABOVE FINISHED FLOOR	KW	KILOWATT
AFV	AIR FACE VELOCITY	KWH	KILOWATT HOUR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	LB	POUND
AHRI	AIR CONDITIONING, HEATING AND REFRIGERATION INSTITUTE	LB/HR	POUNDS PER HOUR
AHU	AIR HANDLING UNIT	LAT	LEAVING AIR TEMPERATURE
ALT	ALTERNATE	LDB	LEAVING DRY-BULB TEMP.
AP	ACCESS PANEL	LVR	LOUVER
APD	AIR PRESSURE DROP	LWB	LEAVING WET-BULB TEMP.
APPROX	APPROXIMATELY	LWT	LEAVING WATER TEMPERATURE
AQ-STAT	AQUASTAT	MAX	MAXIMUM
ARCH	ARCHITECT, ARCHITECTURAL	MBH	ONE THOUSAND BTU PER HOUR
AS	AIR SEPARATOR	MC	MECHANICAL CONTRACTOR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS	MCA	MINIMUM CIRCUIT AMPACITY
		MCF	ONE THOUSAND CUBIC FEET
		MCWB	MEAN COINCIDENCE WET-BULB
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS	MD	MOTORIZED DAMPER
		MECH	MECHANICAL
AUX	AUXILIARY	MFR	MANUFACTURER
B	BOILER	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLDG	BUILDING	MTR	MOTOR
BMS	BUILDING MANAGEMENT SYSTEM	N.C.	NORMALLY CLOSED
BLW	BELOW	N.O.	NORMALLY OPEN
BTU	BRITISH THERMAL UNITS	NC	NOISE CRITERIA
BTUH	BRITISH THERMAL UNITS PER HOUR	NIC	NOT IN CONTRACT
CAP	CAPACITY	NO, #	NUMBER
CUH	CABINET UNIT HEATER	NTS	NOT TO SCALE
CB	CATCH BASIN	OAT	OUTDOOR AIR TEMPERATURE
CFM	CUBIC FEET PER MINUTE	OC	ON CENTER
CH	CHILLER	PC	PLUMBING CONTRACTOR
CHWP	CHILLED-WATER PUMP	PD	PRESSURE DROP
CLG	CEILING	PH	PHASE
CO	CLEAN OUT	PIV	POST INDICATOR VALVE
CONST	CONSTRUCTION	PLBG	PLUMBING
CONT	CONTINUATION OR CONTINUOUS	PRESS	PRESSURE
CONTR	CONTRACTOR	PRI	PRIMARY
CP	CIRCULATING PUMP	PRV	PRESSURE REDUCING VALVE
CT	COOLING TOWER	PRV	POWER ROOF VENTILATOR
CWP	CONDENSER-WATER PUMP	PSI	POUNDS PER SQUARE INCH
D	DEGREE	PSIG	POUNDS PER SQUARE INCH
DB	DRY BULB		GAUGE
DBP	DOMESTIC BOOSTER PUMP	PWR	POWER
DC	DUCT MOUNTED COIL	QTY	QUANTITY
DCP	DOMESTIC CIRCULATING PUMP	R	RISER
DET	DETAIL	RCP	RADIANT CEILING PANEL
DIA	DIAMETER	RD	ROOF DRAIN
DOAS	DEDICATED OUTDOOR AIR SYSTEM	REC	RECESSED
DN	DOWN	RED	REDUCER
DWG	DRAWING	RH	RELATIVE HUMIDITY
EA	EACH	RM	ROOM
EAT	ENTERING AIR TEMPERATURE	RPM	REVOLUTIONS PER MINUTE
EC	ELECTRICAL CONTRACTOR	RTU	PACKAGED ROOFTOP UNIT
EDC	ELECTRIC DUCT COIL	(R)	RELOCATED
EDD	ENTERING DRY-BULB TEMPERATURE	SAT	SUPPLY AIR TEMPERATURE
EF	EXHAUST FAN	SF	SQUARE FOOT
ELEC	ELECTRIC, ELECTRICAL	SD	SMOKE DAMPER
ELEV	ELEVATOR	SHR	SENSIBLE HEAT RATIO
EQUIP	EQUIPMENT	SM	SURFACE MOUNT
EMS	ENERGY MANAGEMENT SYSTEM	SP	STATIC PRESSURE
ERU	ENERGY RECOVERY UNIT	SS	STAINLESS STEEL
ERV	ENERGY RECOVERY VENTILATOR	STD	STANDARD
ET	EXPANSION TANK	SYM	SYMMETRICAL
EWB	ENTERING WET-BULB TEMPERATURE	T	THERMOSTAT
EWC	ELECTRIC WATER COOLER	TD	TEMPERATURE DROP
EWH	ELECTRIC WATER HEATER	TEMP	TEMPERATURE
EWT	ENTERING WATER TEMPERATURE	TF	TRANSFER FAN
EXH	EXHAUST	TYP	TYPICAL
(E)	EXISTING	UG	UNDERGROUND
°F	DEGREES FAHRENHEIT	UH	UNIT HEATER
FCO	FLOOR CLEAN OUT	V	VOLT
FCU	FAN COIL UNIT	VAC	VACUUM
FD	FLOOR DRAIN	VAV	VARIABLE AIR VOLUME
FDC	FIRE DEPARTMENT CONNECTION	VERT	VERTICAL
FP	FIRE PUMP	VTR	VENT THROUGH ROOF
FL	FLOOR	W	WATT
FLA	FULL LOAD AMPS	WH	WATER HEATER
FPM	FEET PER MINUTE	WB	WET BULB
FS	FLOOR SINK	WCO	WALL CLEAN OUT
FT	FOOT/FEET	WH	WALL HYDRANT
FTR	FIN TUBE RADIATION	WPD	WATER PRESSURE DROP
GAL	GALLON	W/O	WITHOUT
GF	GAS-FIRED		
GC	GENERAL CONTRACTOR	∠	ANGLE
GI	GREASE INTERCEPTOR	@	AT
GIV	GRAVITY INTAKE VENTILATOR	Δ	DELTA
GPM	GALLONS PER MINUTE	'	FEET
GRV	GRAVITY RELIEF VENTILATOR	"	INCHES
HB	HOSE BIBB	#	NUMBER
HORIZ	HORIZONTAL	Ø	DIAMETER
HP	HORSE POWER	℄	CENTER LINE
HRU	HEAT RECOVERY UNIT	°	DEGREE
HTG	HEATING		
HTR	HEATER		

FIRE PROTECTION SYMBOLS

- 2" — NOMINAL PIPE SIZE
- ABOVE GROUND PIPING
- BELOW GROUND PIPING
- 1/8" / 12" Slope — PIPE SLOPE (WHEN APPLICABLE)
- (E) — EXISTING PIPE TO REMAIN
- PIPE TO BE DEMOLISHED
- FP-W — WET FIRE SPRINKLER
- FP-D — DRY FIRE SPRINKLER
- FP-PA — PRE-ACTION FIRE SPRINKLER
- F/W — FIRE & WATER SERVICE
- FP-O — FIRE SPRINKLER (OTHER)
- UPRIGHT SPRINKLER
- PENDENT SPRINKLER
- RECESSED SPRINKLER
- CONCEALED HEAD
- DRY UPRIGHT SPRINKLER
- SIDEWALL SPRINKLER
- EXTENDED COVERAGE SPRINKLER
- STANDPIPE VALVE
- 48"x18" S/A — OBSTRUCTION FROM DUCTWORK 48" AND GREATER
- CHECK VALVE
- ALARM CHECK VALVE
- TAMPER DETECTION VALVE
- DRY PIPE VALVE
- INDICATING BUTTERFLY VALVE
- POST INDICATOR VALVE
- VALVE NONRISING STEM
- OS&Y VALVE
- PREACTION VALVE
- DELUGE VALVE
- THRUST BLOCK
- PIPE ANCHOR
- FREESTANDING SIAMESE FIRE DEPARTMENT CONNECTION
- SIAMESE FIRE DEPARTMENT CONNECTION
- SINGLE FIRE DEPARTMENT CONNECTION
- RISER ASSEMBLY
- DOUBLE CHECK (OS&Y)
- DOUBLE CHECK (BUTTERFLY WITH TAMPER)
- REDUCED PRESSURE ZONE
- X — EQUIPMENT IDENTITY
- FIRE SPRINKLER ZONE #1 28000 SF

FIRE PROTECTION SHEET INDEX

F001	FIRE PROTECTION TITLE SHEET
F100	OVERALL FIRE PROTECTION PLAN
F101	FIRE PROTECTION PLAN - AREA A
F102	FIRE PROTECTION PLAN - AREA B
F103	FIRE PROTECTION PLAN - AREA C
F104	FIRE PROTECTION PLAN - AREA D
F105	FIRE PROTECTION PLAN - VEHICLE COLD STORAGE

NOTE: All of the General Notes on this sheet are to be applied to all other drawings in this set. The Symbols and Abbreviations shown on this sheet may or may not be used in this set of drawings.

OCCUPANCY HAZARD CLASSIFICATION

LOCATION NO.	LOCATION NAME	AREA	OCCUPANCY HAZARD CLASSIFICATION TYPE
Level 1			
45	CORRIDOR	131 SF	LH
99	ENTRY VESTIBULE	111 SF	LH
100	ADMIN ASSISTANT	131 SF	LH
101	SIGN OFFICE	136 SF	LH
102	CONFERENCE	442 SF	LH
103	OFFICE MANAGER	205 SF	LH
104	HIGHWAY COMMISSIONER	240 SF	LH
104A	KITCHENETTE	179 SF	LH
105	FOREMAN OFFICE	181 SF	LH
106	PATROL SUPT. & OPS. MANAGER	188 SF	LH
107	RESTROOM	70 SF	LH
108	RESTROOM	69 SF	LH
109	IT/DATA	88 SF	OH1
110	RECORD & ARCHIVE	169 SF	OH1
111	MENS	855 SF	LH
112	WOMENS	294 SF	LH
113	LAUNDRY	74 SF	OH1
114	MECHANICAL	64 SF	OH1
115	WELLNESS ROOM	80 SF	LH
115	PASS	38 SF	LH
115B	WELLNESS ROOM	117 SF	LH
116	BREAK ROOM	1193 SF	LH
116A	BREAK ROOM VESTIBULE	38 SF	LH
117	PARTS STORAGE	2100 SF	OH1
118	CHAINSAWS & SMALL TOOLS	153 SF	OH1
119	FLUIDS & SPRAYS	127 SF	EH1
120	POWERED TOOLS	229 SF	OH1
121	TRASH	45 SF	OH1
122	MECHANIC OFFICE	150 SF	LH
123	WORKSTATIONS	85 SF	LH
124	MECHANIC TOOLS	193 SF	OH1
125	BATHROOM	65 SF	LH
126	BULK FLUID	243 SF	EH1
127	REPAIR GARAGE	11838 SF	OH2
128	FABRICATION SHOP	4104 SF	OH2
129	FABRICATION OFFICE	129 SF	LH
130	HEATED PARKING GARAGE	42764 SF	OH1
133	VEHICLE WASH	4637 SF	OH1
134	VEHICLE WASH CLOSET	247 SF	OH1
137	VEHICLE COLD STORAGE	24952 SF	OH1
137	VEHICLE COLD STORAGE	84 SF	OH1
C100	CORRIDOR	404 SF	LH
C101	CORRIDOR	518 SF	LH
Level 1: 43		98158 SF	
MEZZANINE			
200	MEZZANINE	821 SF	OH1
MEZZANINE: 1		821 SF	
Grand total: 44		98979 SF	

AUTOMATIC SPRINKLER DESIGN CRITERIA

TYPE	OCCUPANCY HAZARD CLASSIFICATION	DESIGN DENSITY (GPM/SF)	DESIGN AREA
LH	LIGHT HAZARD OCCUPANCY	0.10	1500 SF
OH1	ORDINARY HAZARD, GROUP 1 OCCUPANCY	0.15	1500 SF
OH2	ORDINARY HAZARD, GROUP 2 OCCUPANCY	0.20	1500 SF
EH1	EXTRA HAZARD, GROUP 1 OCCUPANCY	0.30	2500 SF
EH2	EXTRA HAZARD, GROUP 2 OCCUPANCY	0.40	2500 SF

GENERAL NOTES

A. MAIN BUILDING: PROVIDE A COMPLETE WET TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES INCLUDING MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, AND NFPA.

B. COLD STORAGE BUILDING: PROVIDE A COMPLETE DRY TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES INCLUDING MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, AND NFPA.

C. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.

D. COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.

E. ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.

F. PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

G. AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.

H. AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.

I. AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER.

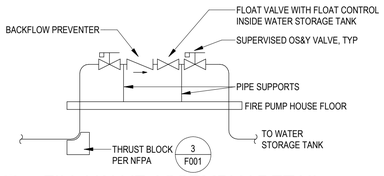
J. SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.

K. THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED ON OR NEAR THE JOB SITE. PERFORM A FIRE FLOW TEST IN ACCORDANCE WITH NFPA 291. PROVIDE A COMPLETE FIRE PUMP SKID SYSTEM IN A DEDICATED BUILDING PROVIDED AS A SINGLE POINT CONNECTION SYSTEM.

L. ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM.

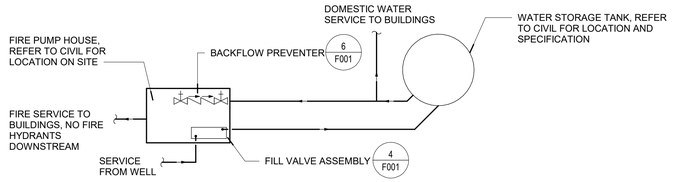
M. THESE DRAWING(S) INDICATE A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.

N. PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.

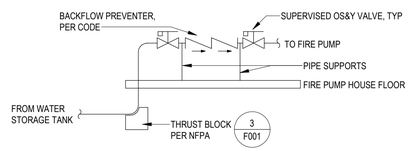


4 FILL VALVE ASSEMBLY DETAIL
NOT TO SCALE

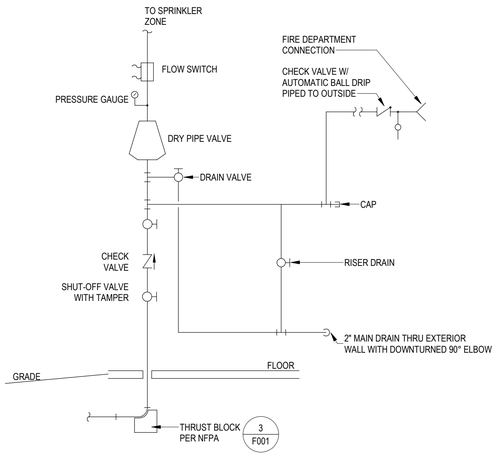
NOTES:
1. WATER STORAGE TANK AND ACCESSORIES BY CIVIL, TANK SHALL AT A MINIMUM HAVE THE FOLLOWING ACCESSORIES PROVIDED WITH THE TANK; ELECTRIC IMMERSION HEATER AND LOW TEMPERATURE SENSOR, INSULATION, METAL JACKET, AND HEAT TRACE ON ANY PIPING SUBJECT TO FREEZING, LEVEL GAUGE WITH HIGH LEVEL ALARM AND LOW LEVEL ALARM, TANK DRAIN, TANK FILL ASSEMBLY WITH FLOAT VALVE AND FLOAT CONTROLS IN TANK, FLEXIBLE CONNECTIONS BETWEEN TANK FLANGES AND VALVES, AND STORAGE TANK CIRCULATION PUMP AND CONTROLLER.
2. PROVIDE COMPLETE PRE-FABRICATED FIRE PUMP HOUSE WITH THE FOLLOWING COMPONENTS:
   A. DIESEL DRIVEN FIRE PUMP WITH CONTROLLER.
   B. JOCKEY PUMP WITH CONTROLLER.
   C. HEATER WITH THERMOSTAT.
   D. POWER PAK AND BATTERY.
   E. DOUBLE WALL FUEL TANK.
   F. VENTILATION FAN AND LOUVERS.
   G. APPROPRIATE VALVES, GAUGES, AND METERS FOR A CODE COMPLIANT SYSTEM.
   H. BACKFLOW PREVENTER, AS REQUIRED BY CODE.
3. PROVIDE CONTROL WIRING FROM FILL VALVES TO WELL PUMP CONTROLLER. FILL VALVE SHALL BE CAPABLE OF TURNING ON/OFF WELL PUMP. THE WELL PUMP SHALL PROVE THE FILL VALVE OPEN BEFORE TURNING ON.



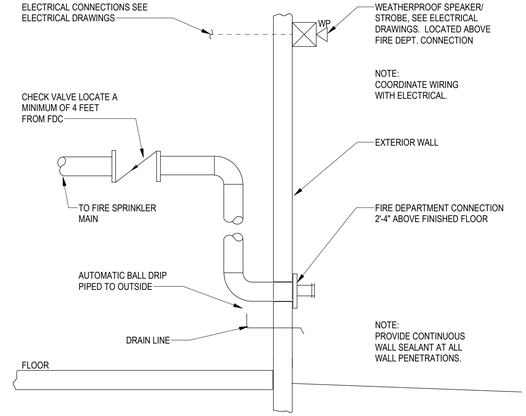
5 SITE PIPING DETAIL
NOT TO SCALE



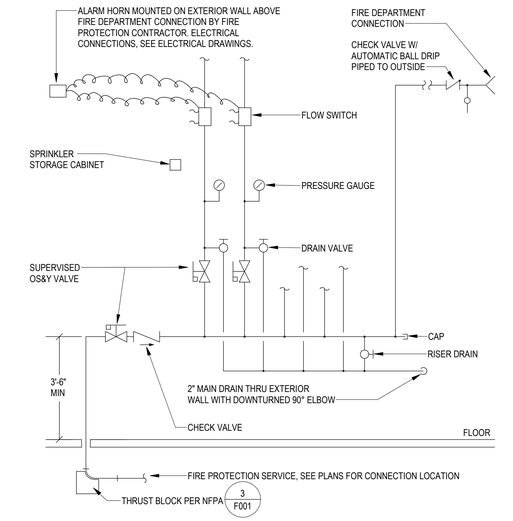
6 BACKFLOW PREVENTER ASSEMBLY DETAIL
NOT TO SCALE



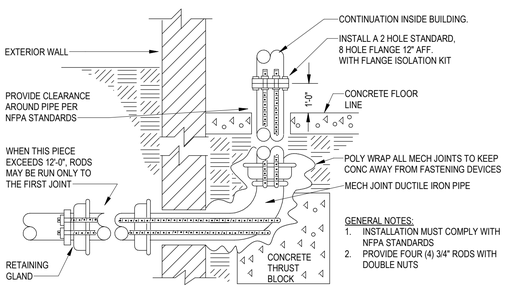
7 FIRE PROTECTION RISER ASSEMBLY DETAIL - DRY
NOT TO SCALE



1 FIRE DEPARTMENT CONNECTION DETAIL
NOT TO SCALE



2 FIRE PROTECTION ASSEMBLY DETAIL - WET
NOT TO SCALE



NOTE: ACCEPTABLE ALTERNATIVE TO MECHANICAL JOINTS AND FITTINGS FOR LEAD-IN PIPING IS STAINLESS STEEL, SINGLE PIECE 90 DEGREE FITTING AS DESCRIBED IN SPECIFICATION.

3 WATER SERVICE LINE EXTENSION DETAIL
NOT TO SCALE

Fire Pump Schedule

Identity	Location	Manufacturer	Model	Product Type	Installation Type	Arrangement	Pump Design Flow	Pump Design Head	Electrical Volt	Electrical Ph	Specification	Notes

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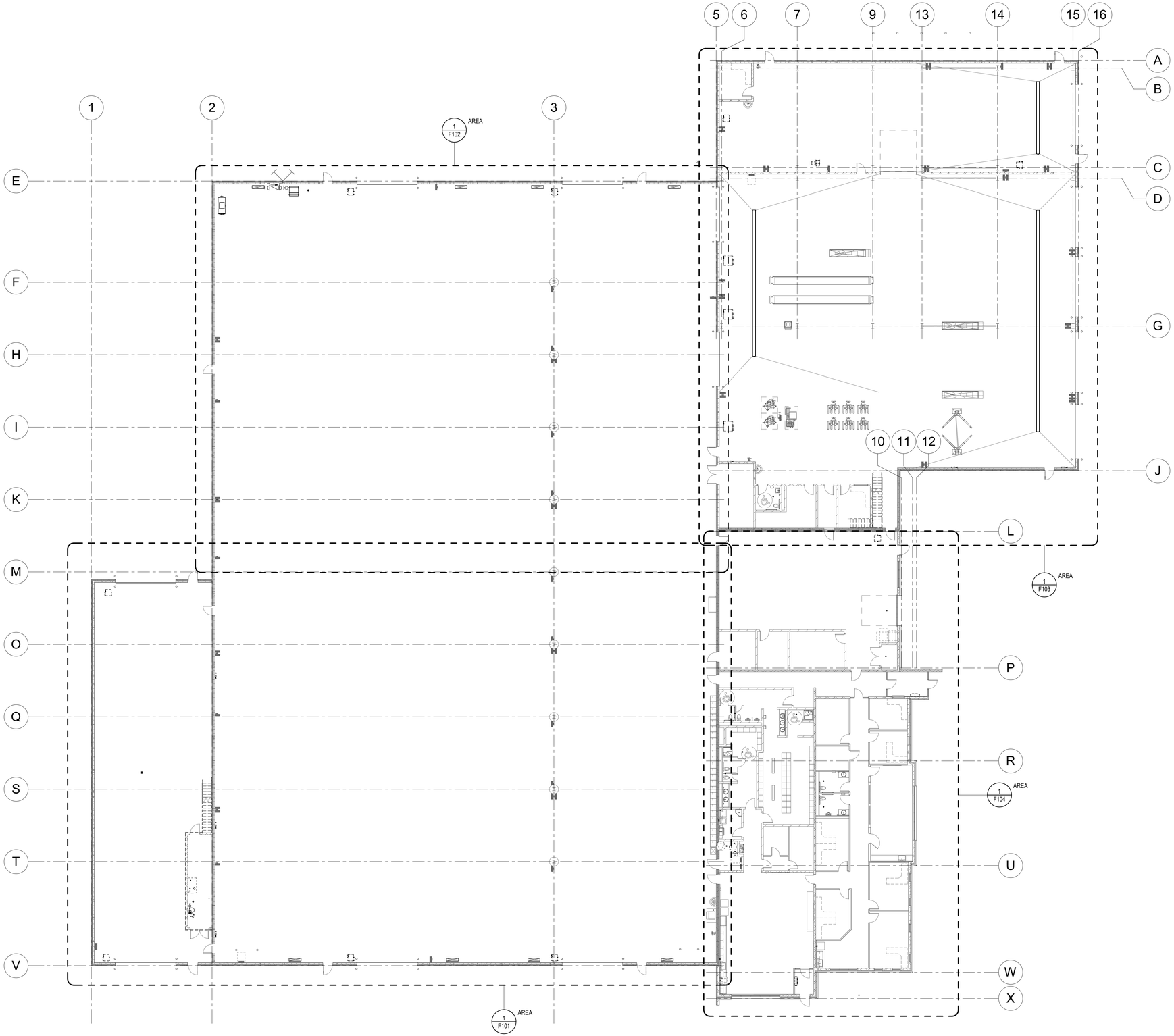
ISSUED FOR
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
FIRE PROTECTION TITLE SHEET

SHEET
F001



1 OVERALL FIRE PROTECTION PLAN

1/16" = 1'-0"

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BARRIENTOS DESIGN PROJECT NUMBER
50923

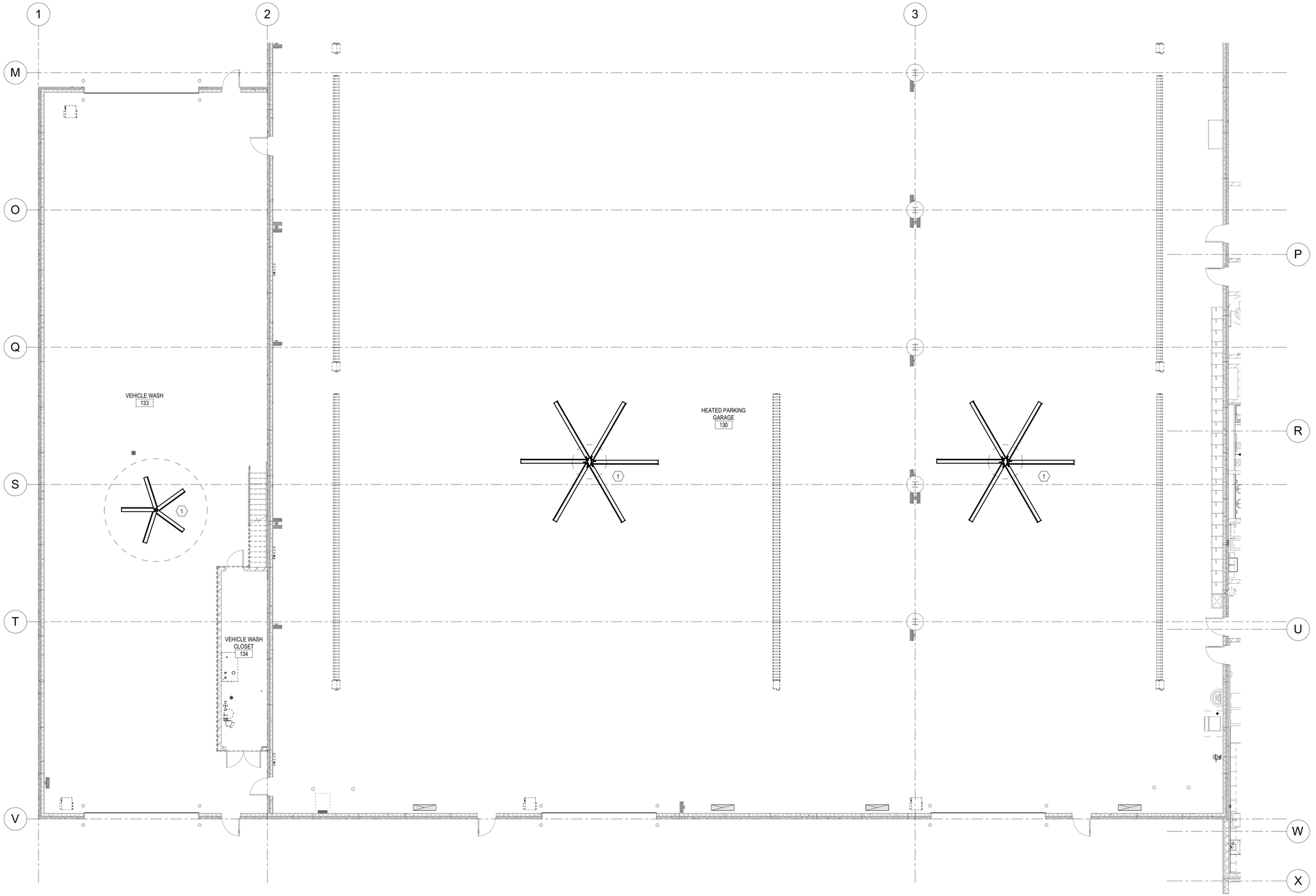
DATE
06.22.2026

SHEET TITLE
OVERALL FIRE PROTECTION PLAN

SHEET
F100

KEYNOTES

1 ALL HVLS FANS SHALL BE INTERLOCKED TO SHUT DOWN IMMEDIATELY UPON A WATERFLOW ALARM IN ACCORDANCE WITH NFPA 72.



1 FIRST FLOOR FIRE PROTECTION PLAN - AREA A

1/8" = 1'-0"

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BARRIENTOS DESIGN PROJECT NUMBER
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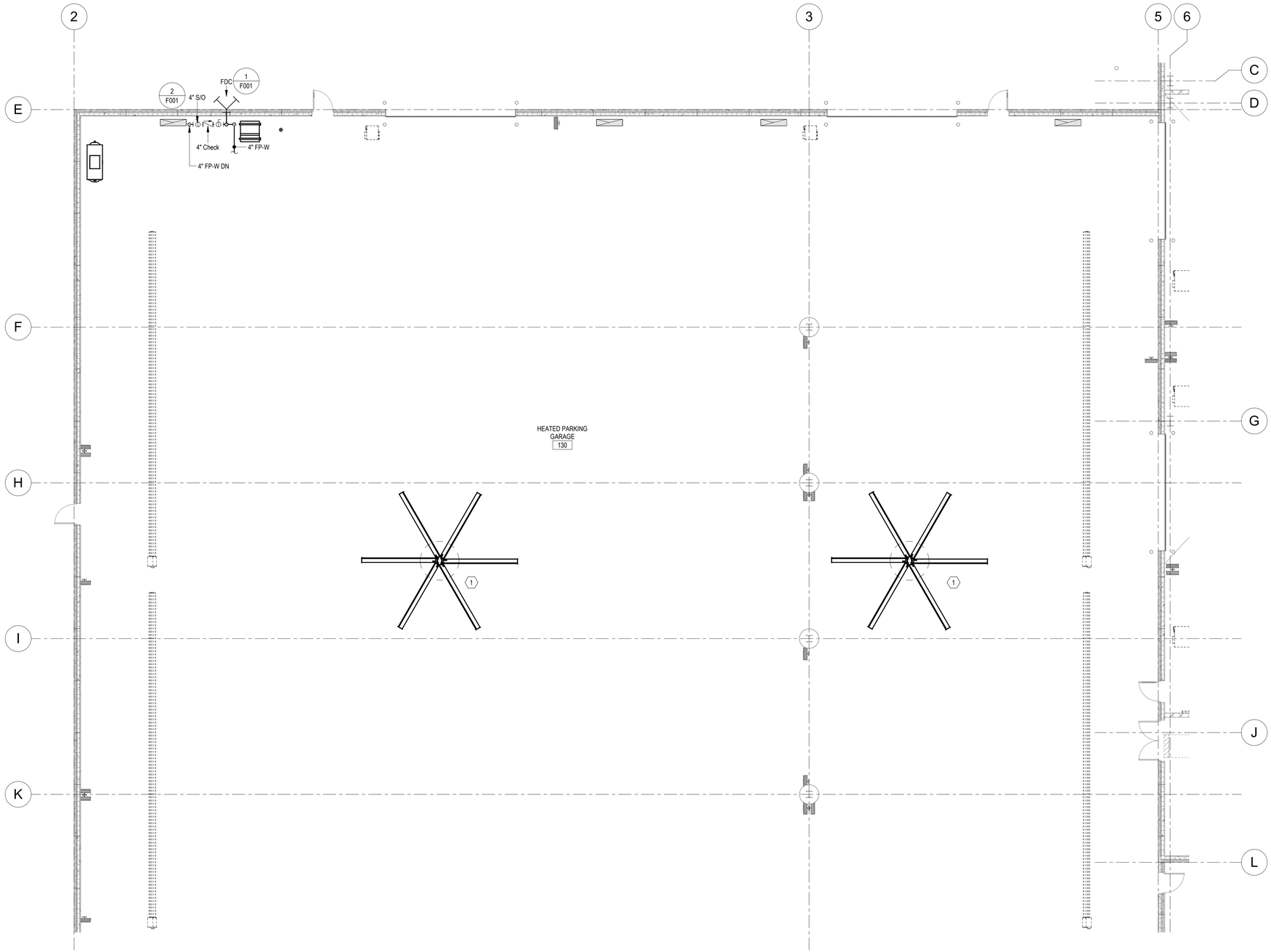
DATE
06.22.2026

SHEET TITLE
FIRE PROTECTION PLAN - AREA A

SHEET
F101

KEYNOTES

1 ALL HVLS FANS SHALL BE INTERLOCKED TO SHUT DOWN IMMEDIATELY UPON A WATERFLOW ALARM IN ACCORDANCE WITH NFPA 72.



1 FIRST FLOOR FIRE PROTECTION PLAN - AREA B
1/8" = 1'-0"

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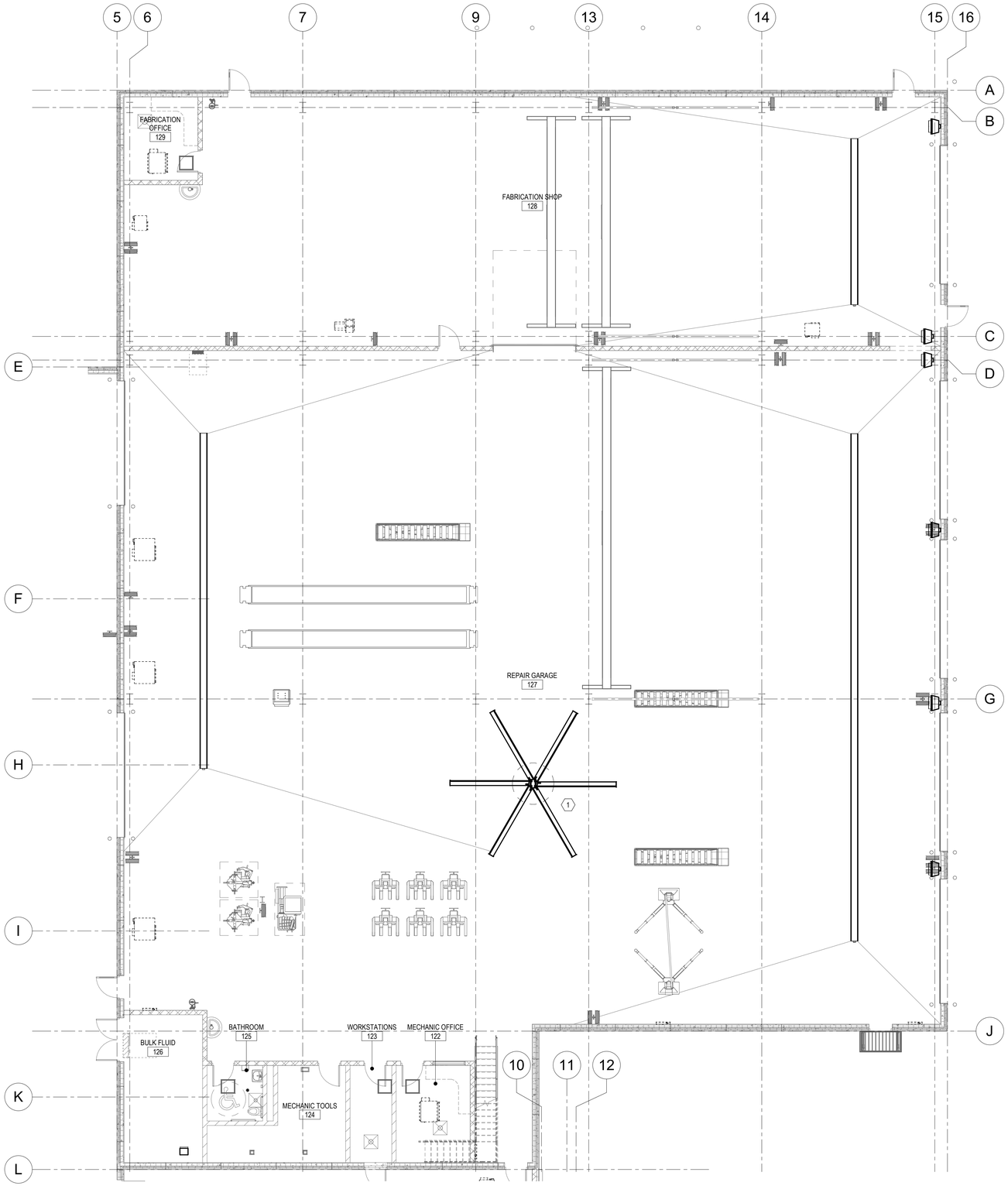
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50923

DATE
06.22.2026

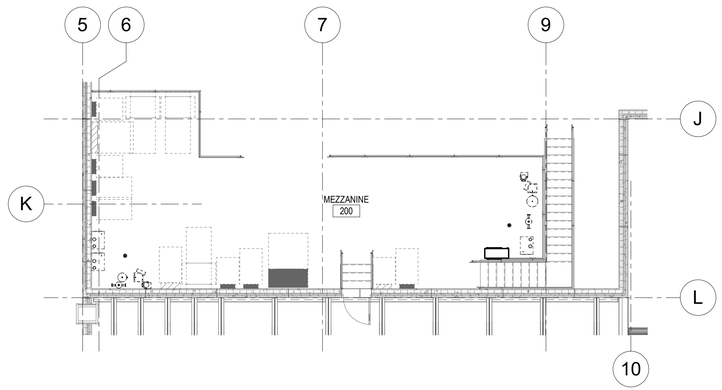
SHEET TITLE
FIRE PROTECTION PLAN - AREA B

SHEET
F102



1 FIRST FLOOR FIRE PROTECTION PLAN - AREA C

1/8" = 1'-0"



2 MEZZANINE FIRE PROTECTION PLAN

1/8" = 1'-0"

KEYNOTES

1 ALL HVLS FANS SHALL BE INTERLOCKED TO SHUT DOWN IMMEDIATELY UPON A WATERFLOW ALARM IN ACCORDANCE WITH NFPA 72.

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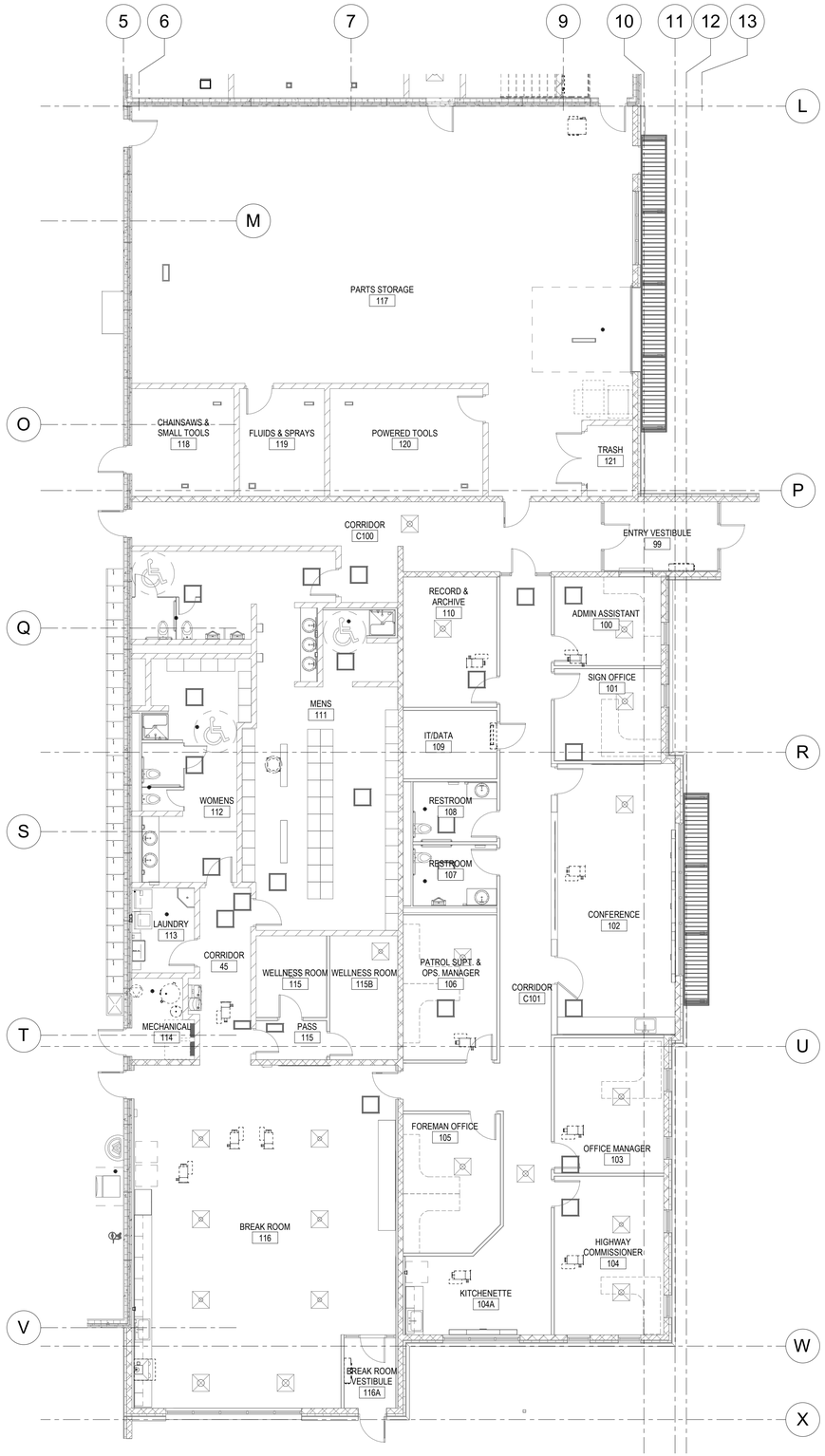
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
FIRE PROTECTION PLAN - AREA C

SHEET
F103



1 FIRST FLOOR FIRE PROTECTION PLAN - AREA D

1/8" = 1'-0"

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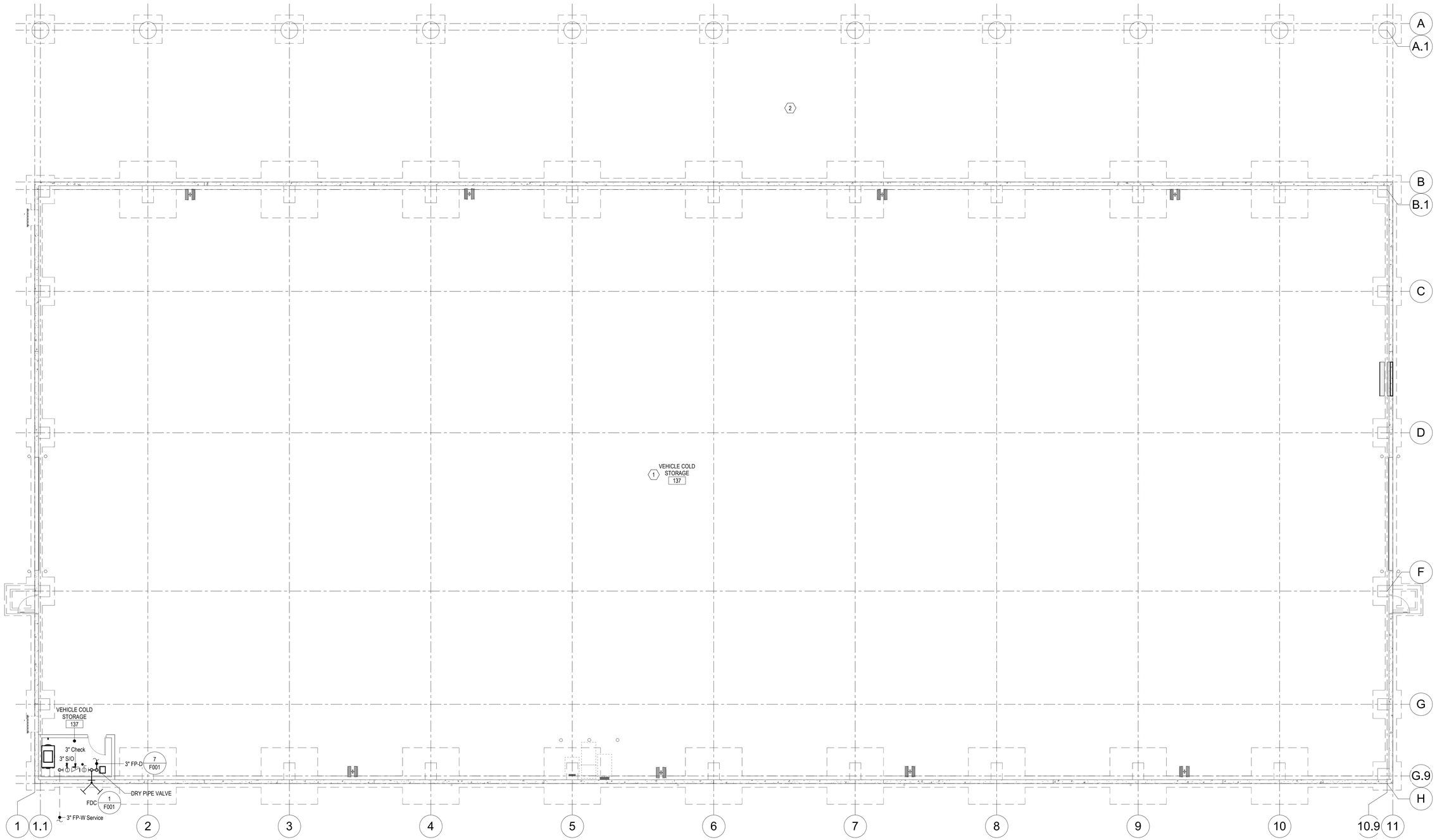
DATE
06.22.2026

SHEET TITLE
FIRE PROTECTION PLAN - AREA D

SHEET
F104

KEYNOTES

1 PROVIDE BUILDING WITH DRY PIPE SPRINKLER COVERAGE. DRY PIPE VALVE AND WET COMPONENTS SHALL BE PROVIDED IN INSULATED HEATED ROOM.
2 PROVIDE CANOPY WITH DRY PIPE SPRINKLER COVERAGE PER NFPA.



1 FIRST FLOOR FIRE PROTECTION PLAN - VEHICLE COLD STORAGE
1/8" = 1'-0"

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SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
FIRE PROTECTION PLAN - VEHICLE COLD STORAGE

SHEET
F105

GENERAL PLAN SYMBOLS

- 1 — PLAN REVISION NUMBER
- 1 / E000 — DETAIL NUMBER ON SHEET / SHEET NUMBER WHERE DETAIL IS PLACED
- 1 — KEYNOTE SYMBOL
- CONTINUATION SYMBOL
- POINT WHERE NEW CONNECTS TO EXISTING
- Room 5 — ROOM NAME / NUMBER
- AREA BEING DEMOLISHED
- AREA NOT IN CONTRACT

ABBREVIATIONS

A, AMP	AMPERE	HVAC	HEATING, VENTILATING AND AIR CONDITIONING
ABV	ABOVE	HWP	HOT-WATER PUMP
AC	AIR CONDITIONING	HYD	HYDRANT
ACCU	AIR COOLED CONDENSING UNIT	ID	INDIRECT
AD	AREA DRAIN	IN	INCH
ADD	ADDENDUM	INV	INVERT
AFF	ABOVE FINISHED FLOOR	KW	KILOWATT
AFV	AIR FACE VELOCITY	KWH	KILOWATT HOUR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	LB	POUND
AHRI	AIR CONDITIONING, HEATING AND REFRIGERATION INSTITUTE	LB/HR	POUNDS PER HOUR
AHU	AIR HANDLING UNIT	LAT	LEAVING AIR TEMPERATURE
ALT	ALTERNATE	LDB	LEAVING DRY-BULB TEMP.
AP	ACCESS PANEL	LVR	LOUVER
APD	AIR PRESSURE DROP	LWB	LEAVING WET-BULB TEMP.
APPROX	APPROXIMATELY	LWT	LEAVING WATER TEMPERATURE
AQ-STAT	AQUASTAT	MAX	MAXIMUM
ARCH	ARCHITECT, ARCHITECTURAL	MBH	ONE THOUSAND BTU PER HOUR
AS	AIR SEPARATOR	MC	MECHANICAL CONTRACTOR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS	MCA	MINIMUM CIRCUIT AMPACITY
		MCF	ONE THOUSAND CUBIC FEET
		MCWB	MEAN COINCIDENCE WET-BULB
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS	MD	MOTORIZED DAMPER
		MECH	MECHANICAL
AUX	AUXILIARY	MFR	MANUFACTURER
B	BOILER	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLDG	BUILDING	MTR	MOTOR
BMS	BUILDING MANAGEMENT SYSTEM	N.C.	NORMALLY CLOSED
BLW	BELOW	N.O.	NORMALLY OPEN
BTU	BRITISH THERMAL UNITS	NC	NOISE CRITERIA
BTUH	BRITISH THERMAL UNITS PER HOUR	NIC	NOT IN CONTRACT
CAP	CAPACITY	NO, #	NUMBER
CUH	CABINET UNIT HEATER	NTS	NOT TO SCALE
CB	CATCH BASIN	OAT	OUTDOOR AIR TEMPERATURE
CFM	CUBIC FEET PER MINUTE	OC	ON CENTER
CH	CHILLER	PC	PLUMBING CONTRACTOR
CHWP	CHILLED-WATER PUMP	PD	PRESSURE DROP
CLG	CEILING	PH	PHASE
CO	CLEAN OUT	PIV	POST INDICATOR VALVE
CONST	CONSTRUCTION	PLBG	PLUMBING
CONT	CONTINUATION OR CONTINUOUS	PRESS	PRESSURE
CONTR	CONTRACTOR	PRI	PRIMARY
CP	CIRCULATING PUMP	PRV	PRESSURE REDUCING VALVE
CT	COOLING TOWER	PRV	POWER ROOF VENTILATOR
CWP	CONDENSER-WATER PUMP	PSI	POUNDS PER SQUARE INCH
D	DEGREE	PSIG	POUNDS PER SQUARE INCH GAUGE
DB	DRY BULB		
DBP	DOMESTIC BOOSTER PUMP	PWR	POWER
DC	DUCT MOUNTED COIL	QTY	QUANTITY
DCP	DOMESTIC CIRCULATING PUMP	R	RISER
DET	DETAIL	RCP	RADIANT CEILING PANEL
DIA	DIAMETER	RD	ROOF DRAIN
DOAS	DEDICATED OUTDOOR AIR SYSTEM	REC	RECESSED
DN	DOWN	RED	REDUCER
DWG	DRAWING	RH	RELATIVE HUMIDITY
EA	EACH	RM	ROOM
EAT	ENTERING AIR TEMPERATURE	RPM	REVOLUTIONS PER MINUTE
EC	ELECTRICAL CONTRACTOR	RTU	PACKAGED ROOFTOP UNIT
EDC	ELECTRIC DUCT COIL	(R)	RELOCATED
EDD	ENTERING DRY-BULB TEMPERATURE	SAT	SUPPLY AIR TEMPERATURE
EF	EXHAUST FAN	SF	SQUARE FOOT
ELEC	ELECTRIC, ELECTRICAL	SD	SMOKE DAMPER
ELEV	ELEVATOR	SHR	SENSIBLE HEAT RATIO
EQUIP	EQUIPMENT	SM	SURFACE MOUNT
EMS	ENERGY MANAGEMENT SYSTEM	SP	STATIC PRESSURE
ERU	ENERGY RECOVERY UNIT	SS	STAINLESS STEEL
ERV	ENERGY RECOVERY VENTILATOR	STD	STANDARD
ET	EXPANSION TANK	SYM	SYMMETRICAL
EWB	ENTERING WET-BULB TEMPERATURE	T	THERMOSTAT
EWC	ELECTRIC WATER COOLER	TD	TEMPERATURE DROP
EWH	ELECTRIC WATER HEATER	TEMP	TEMPERATURE
EWT	ENTERING WATER TEMPERATURE	TF	TRANSFER FAN
EXH	EXHAUST	TYP	TYPICAL
(E)	EXISTING	UG	UNDERGROUND
°F	DEGREES FAHRENHEIT	UH	UNIT HEATER
FCO	FLOOR CLEAN OUT	V	VOLT
FCU	FAN COIL UNIT	VAC	VACUUM
FD	FLOOR DRAIN	VAV	VARIABLE AIR VOLUME
FDC	FIRE DEPARTMENT CONNECTION	VERT	VERTICAL
FP	FIRE PUMP	VTR	VENT THROUGH ROOF
FL	FLOOR	W	WATT
FLA	FULL LOAD AMPS	WH	WATER HEATER
FPM	FEET PER MINUTE	WB	WET BULB
FS	FLOOR SINK	WCO	WALL CLEAN OUT
FT	FOOT/FEET	WH	WALL HYDRANT
FTR	FIN TUBE RADIATION	WPD	WATER PRESSURE DROP
GAL	GALLON	W/O	WITHOUT
GF	GAS-FIRED		
GC	GENERAL CONTRACTOR	∠	ANGLE
GI	GREASE INTERCEPTOR	@	AT
GIV	GRAVITY INTAKE VENTILATOR	Δ	DELTA
GPM	GALLONS PER MINUTE	'	FEET
GRV	GRAVITY RELIEF VENTILATOR	"	INCHES
HB	HOSE BIBB	#	NUMBER
HORIZ	HORIZONTAL	Ø	DIAMETER
HP	HORSE POWER	℄	CENTER LINE
HRU	HEAT RECOVERY UNIT	°	DEGREE
HTG	HEATING		
HTR	HEATER		

PLUMBING SYMBOLS

- 2" — NOMINAL PIPE SIZE
- ABOVE GROUND PIPING
- BELOW GROUND PIPING
- 1/8" / 12" Slope — PIPE SLOPE (WHEN APPLICABLE)
- (E) — EXISTING PIPE TO REMAIN
- PIPE TO BE DEMOLISHED
- CW — DOMESTIC COLD WATER
- NPW — HARD COLD WATER
- S-CW — SOFT COLD WATER
- F-CW — FILTERED COLD WATER
- RO — REVERSE OSMOSIS WATER
- HW — HOT WATER
- HW 140° — HOT WATER 140°
- HW-R — HOT WATER RECIRCULATION
- HW-R 140° — HOT WATER RECIRCULATION 140°
- SS — SANITARY SEWER
- V — SANITARY VENT
- WV — SANITARY VENT
- CWV — COMBINATION WASTE & VENT
- CD — CONDENSATE DRAINAGE
- ID — INDIRECT WASTE
- GW — GREASE WASTE
- GV — GREASE VENT
- OW — OIL WASTE
- OV — OIL VENT
- PD — PUMP DISCHARGE
- SHWR — SOLAR HOT WATER RETURN
- SHWS — SOLAR HOT WATER SUPPLY
- SD — STORM DRAINAGE
- OSD — OVERFLOW STORM DRAINAGE
- CA — COMPRESSED AIR
- G — NATURAL GAS
- LP — PROPANE GAS
- PIPE RISE / DROP

PIPE ACCESSORY NOTES

- 4" FCO — CLEANOUT
- 2" BACKWATER — SWING CHECK
- 2" CHECK — CHECK VALVE
- 2" CHECK — ALTERNATE CHECK VALVE
- 2" BALANCE — BALANCING VALVE
- 2" CIRC — CIRCUIT SETTER
- 2" GATE — GATE VALVE
- 2" QUICK — QUICK OPENING VALVE
- 2" S/O — BALL VALVE
- 2" STRAIN — FLUID STRAINER
- S — 1" GAS-CNTRL — EMERGENCY GAS SHUTOFF
- 1" PLUG — PLUG VALVE
- 1" GAS COCK — GAS SHUTOFF COCK
- 1" REG — GAS REGULATOR
- T/P — 1" T/V — THERMOSTATIC VALVE
- TP — PRIMER — TRAP PRIMER
- M — 2" M-CNTRL — ELEC. CONTROL VALVE
- T/P — TMV-XT/P — Mixing Valve
- EM — TMVEM — EMERGENCY MIXER
- 2" PRV — PRESSURE REDUCING VALVE
- W — 2" METER — WATER METER
- IR — 1 1/2" METER — IRRIGATION METER
- DOUBLE CHECK VALVE
- REDUCED PRESSURE ZONE

PLUMBING FIXTURE NOTES

- FLOOR DRAIN — DESIGN PIPE SIZE
- 2" FD-1 — IDENTITY TYPE
- 2 DFU — DRAINAGE FIXTURE UNITS
- 2" FD-3 — FLOOR DRAIN W/ DEEP SEAL TRAP
- 2" FD-3P — FLOOR DRAIN W/ TRAP PRIMER "P" INDICATES PRIMER CONNECTION
- 2" FD-7 — FLOOR DRAIN W/ INTEGRAL CLEANOUT
- 3" AD-1 — AREA DRAIN (NO TRAP)
- 3" HD-1 — HUB DRAIN (FUNNEL TYPE)
- 3" FS-4 — FLOOR SINK
- 8" SD-1 — ROOF DRAIN
- 6" SD-2 / 2000 SF — COMBINATION DRAIN / RAINFALL SURFACE AREA
- 8" DN-1 — DOWNSPOUT NOZZLE

PROJECT NOTES

A. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
B. COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.
C. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
D. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
E. LOCATE DUCTWORK, PIPING, AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS, AND OTHER ELECTRICAL EQUIPMENT.
F. LOCATIONS OF PIPING, DUCTWORK, AND EQUIPMENT AS INDICATED ON THE DRAWING ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
G. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE UL LISTED.
H. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
I. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION, OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
J. ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
K. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
L. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
M. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
N. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
O. THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.
P. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR REQUIRED MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS NOTED IN SPECIFICATIONS.
Q. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
R. PROVIDE A MINIMUM ONE-YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

GENERAL NOTES

A. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
B. ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY SEWER, AND STORM SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.
C. ALL DRAIN-WASTE-VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.
D. PITCH UNDERFLOOR DRAIN-WASTE-VENT PIPING BRANCHES AT 1/4" PER FOOT, UNLESS NOTED OTHERWISE. PITCH UNDERFLOOR DRAIN-WASTE-VENT PIPING MAINS AT 1/8" PER FOOT.
E. PITCH UNDERFLOOR STORM PIPING 3" AND GREATER AT 1/8" PER FOOT, UNLESS NOTED OTHERWISE. PITCH ALL OTHER STORM PIPING AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.
F. PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL DRAINAGE RISERS.

NOTE: ALL OF THE GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

PLUMBING SHEET INDEX

P001	PLUMBING TITLE SHEET
P100	OVERALL UNDERFLOOR PLUMBING PLAN
P101	UNDERFLOOR PLUMBING PLAN - AREA A
P102	UNDERFLOOR PLUMBING PLAN - AREA B
P103	UNDERFLOOR PLUMBING PLAN - AREA C
P104	UNDERFLOOR PLUMBING PLAN - AREA D
P105	UNDERFLOOR PLUMBING PLAN - STORAGE & BRINE SHED
P110	OVERALL ABOVE FLOOR PLUMBING PLAN
P111	ABOVE FLOOR PLUMBING PLAN - AREA A
P112	ABOVE FLOOR PLUMBING PLAN - AREA B
P113	ABOVE FLOOR PLUMBING PLAN - AREA C
P114	ABOVE FLOOR PLUMBING PLAN - AREA D
P120	ROOF PLUMBING PLAN
P501	PLUMBING DETAILS
P601	PLUMBING SCHEDULES
P901	DOMESTIC WATER RISER DIAGRAM
P902	WASTE & VENT RISER DIAGRAMS
P903	STORM RISER DIAGRAM

STORM DRAINAGE RAINFALL DESIGN

QTY	RAINFALL DESIGN DEPTH	RAINFALL DESIGN DURATION	SURFACE AREA	PIPING FLOW PROPAGATION RAINFALL RATE	PIPING FLOW PROPAGATION SURFACE AREA
22	3.7"	60 min	75153 SF	Yes	No

RAINFALL DESIGN DEPTH AND DURATION IS ESTIMATED BASED ON DIVIDING SURFACE AREA BY 26 FOR GPM CALCULATION PER WI PLUMBING CODE

PIPE MATERIAL LIST

SYSTEM TYPE	MATERIAL	Bell & spigot cast iron pipe per ASTM A74	Hubless cast iron pipe & fittings per ASTM A888 or CISPI 301	Type "L" copper straight lengths per ASTM B88 w/ cast copper alloy solder joint pressure fittings per ASME B16.22	Type "L" copper coil per ASTM B88 w/ cast copper alloy fitting for flared fittings ASME B16.26	Type "M" copper coil per ASTM B88 w/ cast copper alloy fitting for flared fittings ASME B16.26	PVC Schedule 40 DWV pipe per ASTM D2665 w/ PVC Schedule 40 DWV fitting per ASTM D2665	Black Steel Schedule 40(STD) per ASTM A53 w/ malleable iron threaded joints & fittings Class 150 per ASME B16.3	Type "K" copper tube per ASTM B75	Type "TPW" copper tube per ASTM B75 w/ copper alloy soldered joint fittings per ASME B16.23
POTABLE WATER (CW, HW, HW-R)	≥ 1/2"			•						
	< 1/2"				•					
SANITARY DRAINAGE (SS)	ABOVE GRADE		•							
	BELOW GRADE		•							
SANITARY VENT (V)	ABOVE GRADE		•							
	BELOW GRADE		•							
GREASE WASTE (GW)	ALL		•							
INDIRECT WASTE (IW)	ABOVE GRADE ONLY									•
TRAP PRIMER (TP)	ALL					•				
CONDENSATE DRAIN (CD)	ALL									•
NATURAL GAS (G)	ABOVE GRADE ONLY							•		

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1		

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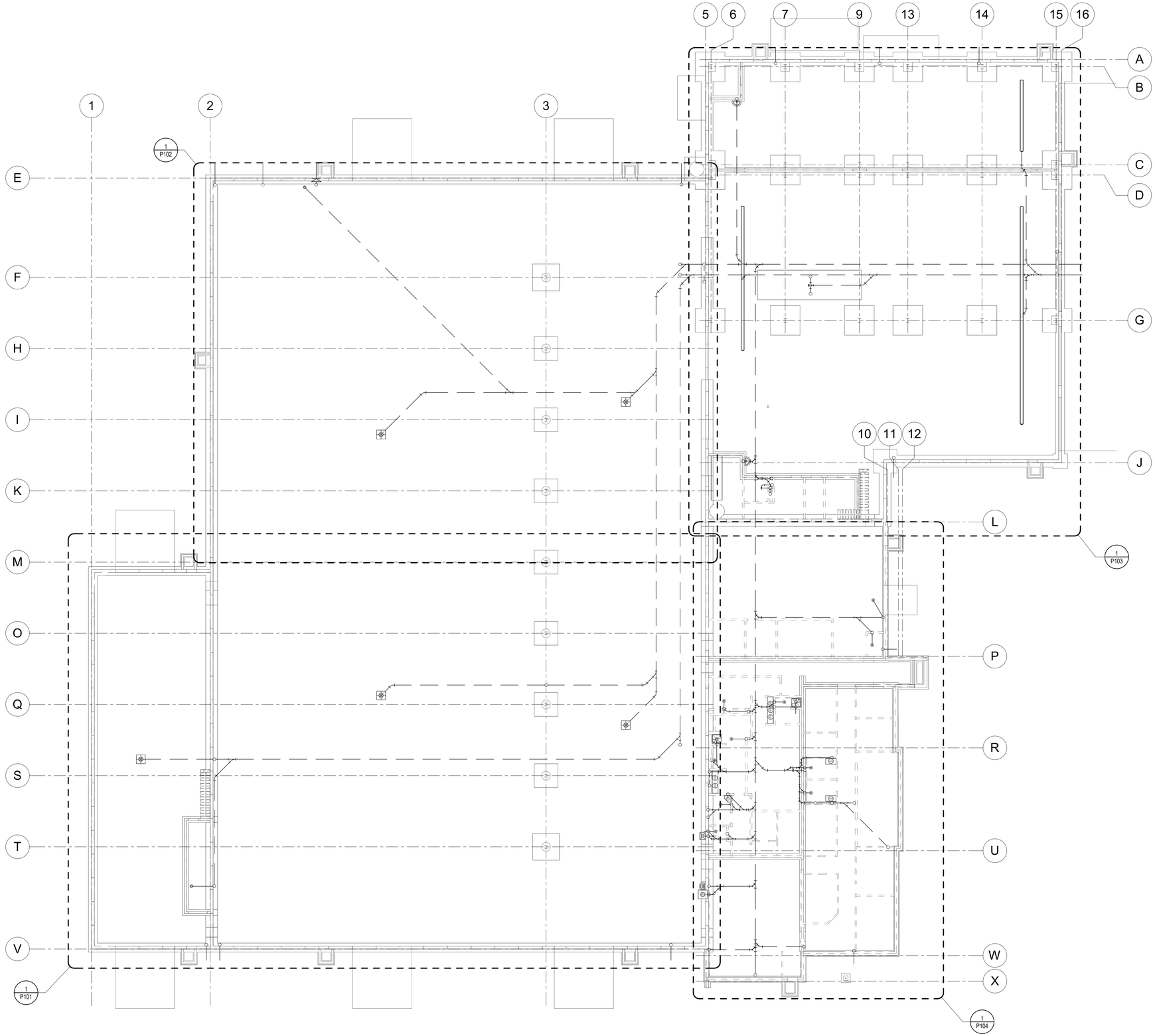
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BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
PLUMBING TITLE SHEET

SHEET
P001



1 OVERALL UNDERFLOOR PLUMBING PLAN

1/16" = 1'-0"

PLUMBING SHEET NOTES

A. THIS PLAN IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PIPING AND PENETRATIONS.
B. ALL WALL-MOUNTED ACCESS PANELS SHALL BE LOCKABLE TYPE.
C. ABOVE-GRADE WASTE PIPING SHALL BE RUN AT 2% GRADE. BELOW-GRADE WASTE PIPE SHALL BE RUN AT 1% GRADE.
D. ALL CONDENSATE DRAIN PIPE SHALL BE RUN AT 1% GRADE.
E. MAINTAIN MINIMUM 10-0" SEPARATION BETWEEN FLUE AND PLUMBING VENT OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR.
F. FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
G. PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1072 COMPLIANT).
H. PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.
I. SEE RISER DIAGRAMS FOR PIPE SIZING.

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SHEET TITLE
OVERALL UNDERFLOOR PLUMBING PLAN

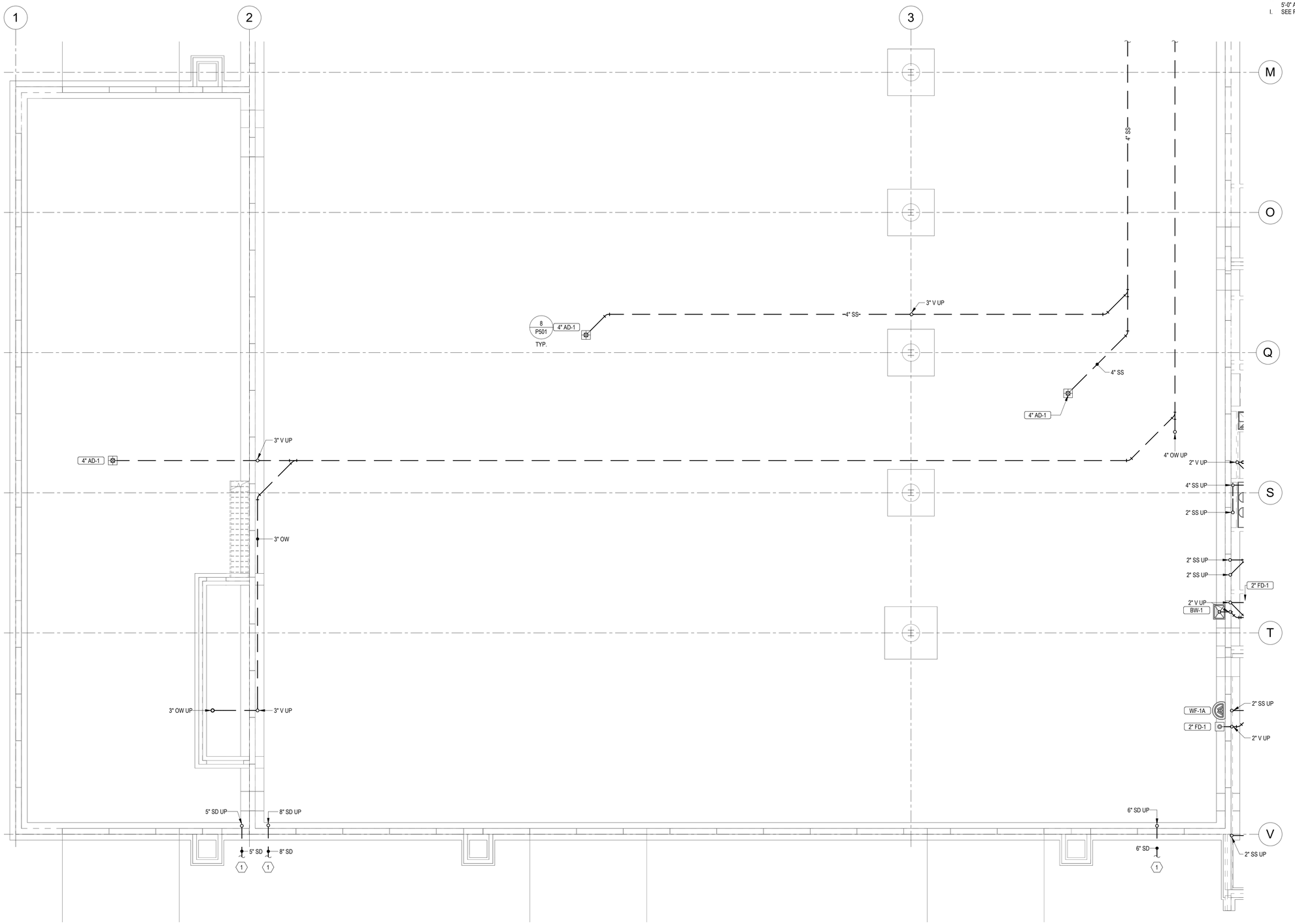
SHEET
P100

KEYNOTES

1 SEE CIVIL FOR CONTINUATION.

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1 UNDERFLOOR PLUMBING PLAN - AREA A
1/8" = 1'-0"

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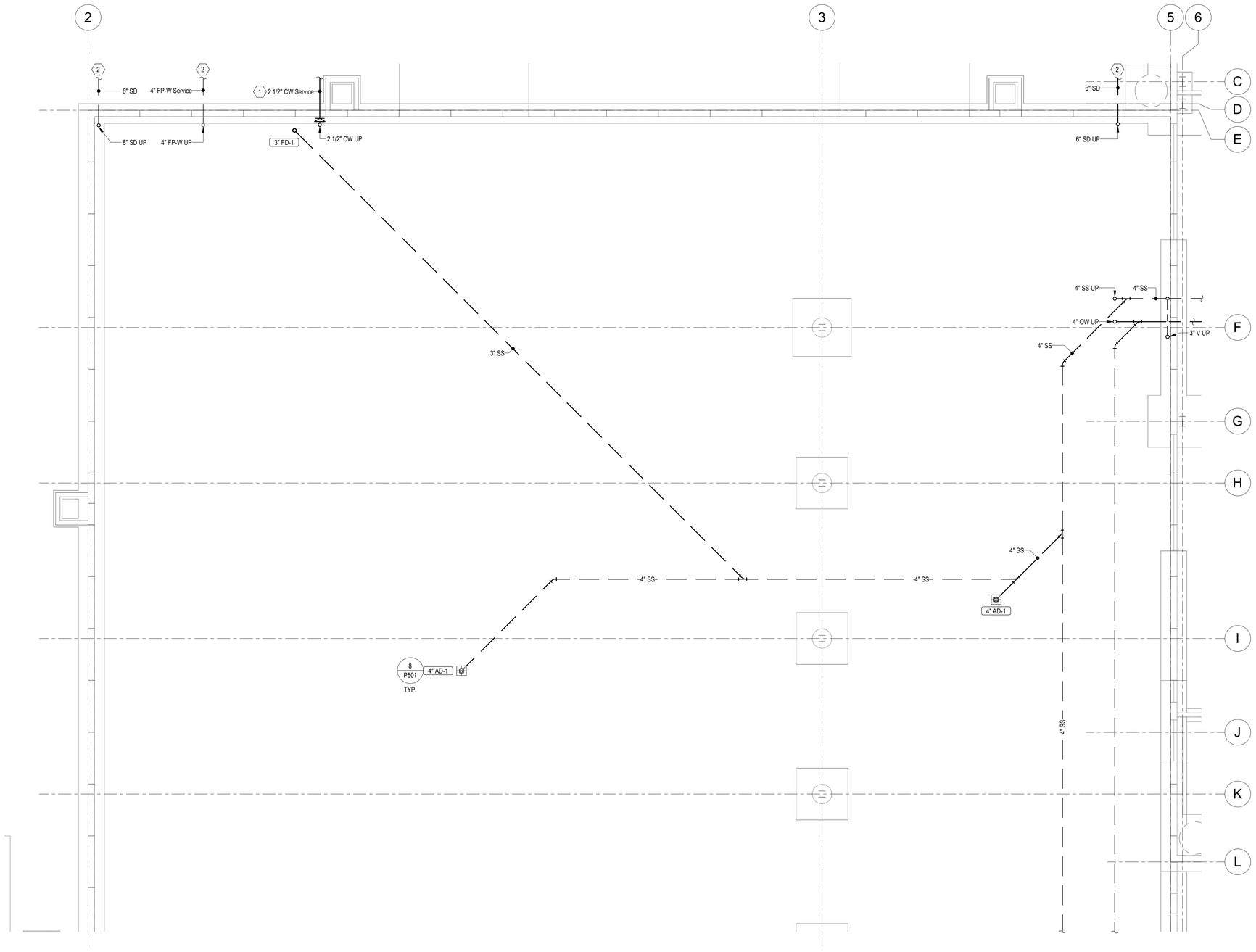
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DATE
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SHEET TITLE
UNDERFLOOR PLUMBING PLAN - AREA A

SHEET
P101



1 UNDERFLOOR PLUMBING PLAN - AREA B

1/8" = 1'-0"

PLUMBING SHEET NOTES

A. THIS PLAN IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PIPING AND PENETRATIONS.
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G. PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1072 COMPLIANT).
H. PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.
I. SEE RISER DIAGRAMS FOR PIPE SIZING.

KEYNOTES

1 EXTEND DOMESTIC WATER SERVICE 5'-0" FROM BUILDING AND CONNECT TO DOMESTIC WATER SERVICE PROVIDED BY SITE UTILITY CONTRACTOR.
2 SEE CIVIL FOR CONTINUATION.

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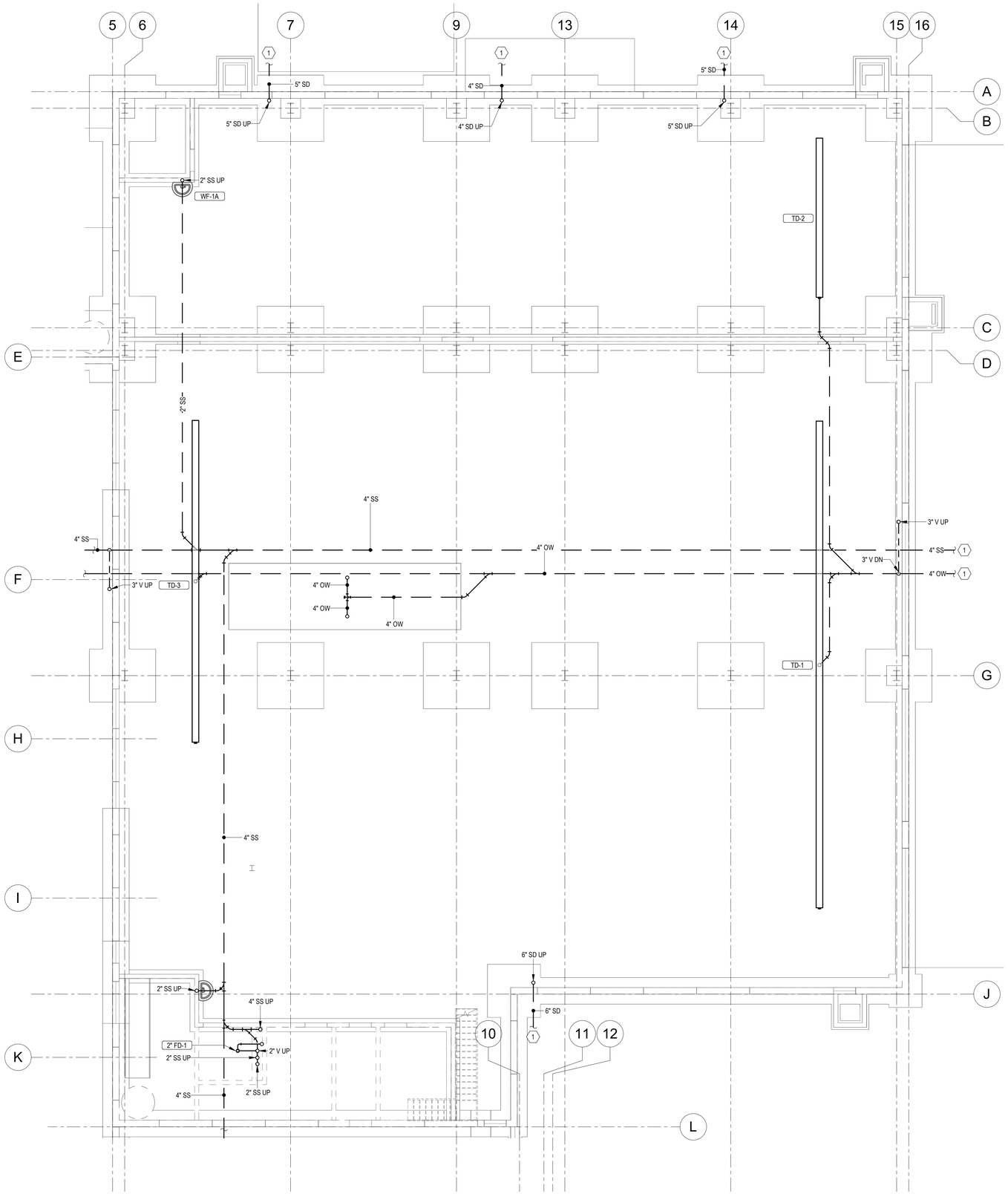
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SHEET TITLE
UNDERFLOOR PLUMBING PLAN - AREA B

SHEET
P102



1 UNDERFLOOR PLUMBING PLAN - AREA C

1/8" = 1'-0"

PLUMBING SHEET NOTES

A. THIS PLAN IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PIPING AND PENETRATIONS.
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G. PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1072 COMPLIANT).
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I. SEE RISER DIAGRAMS FOR PIPE SIZING.

KEYNOTES

1 SEE CIVIL FOR CONTINUATION.

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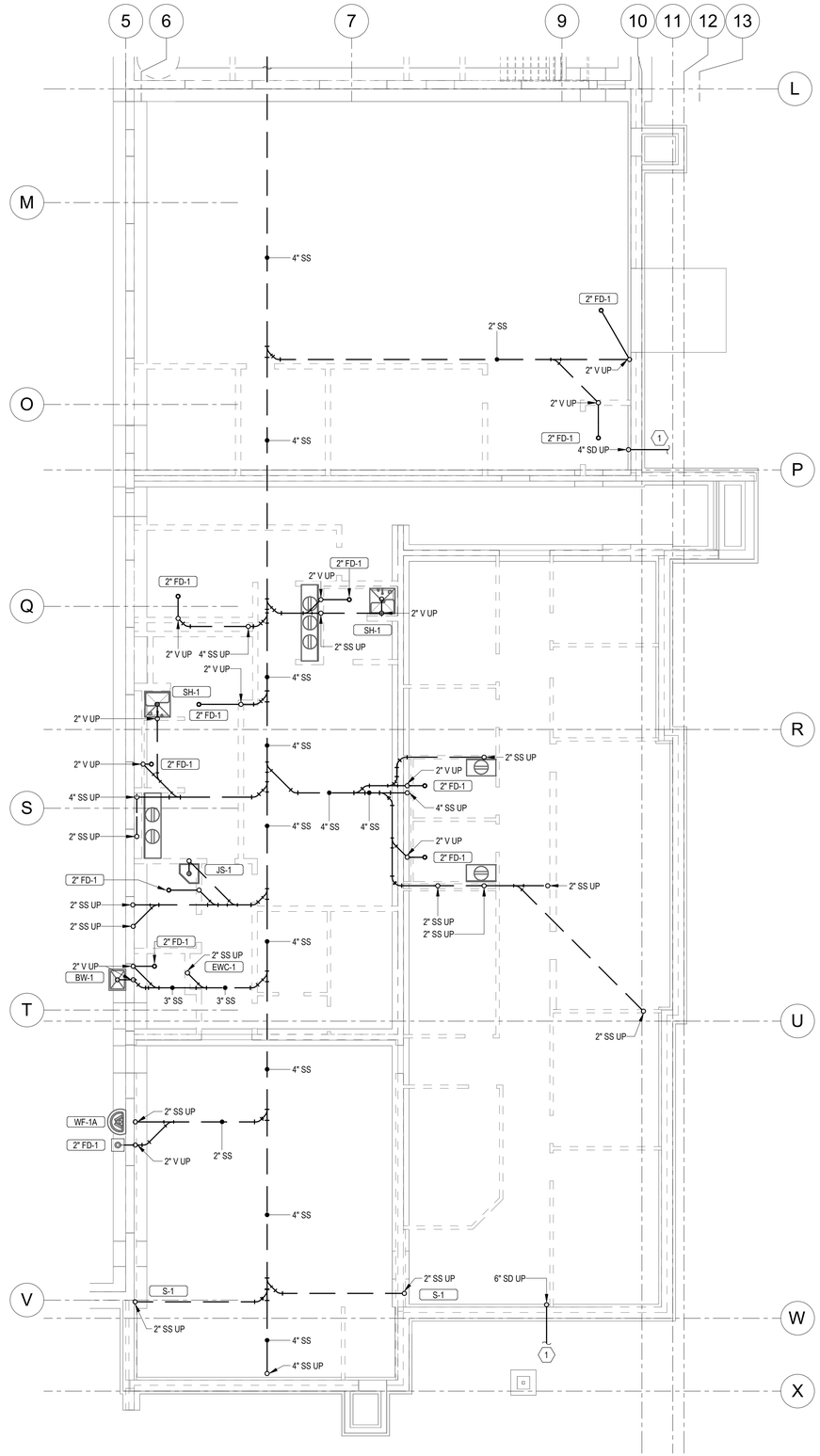
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BARRIENTOS DESIGN PROJECT NUMBER
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DATE
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SHEET TITLE
UNDERFLOOR PLUMBING PLAN - AREA C

SHEET
P103



1 UNDERFLOOR PLUMBING PLAN - AREA D

1/8" = 1'-0"

PLUMBING SHEET NOTES

A. THIS PLAN IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PIPING AND PENETRATIONS.
B. ALL WALL-MOUNTED ACCESS PANELS SHALL BE LOCKABLE TYPE.
C. ABOVE-GRADE WASTE PIPING SHALL BE RUN AT 2% GRADE. BELOW-GRADE WASTE PIPE SHALL BE RUN AT 1% GRADE.
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E. MAINTAIN MINIMUM 10-0" SEPARATION BETWEEN FLUE AND PLUMBING VENT OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR.
F. FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
G. PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1072 COMPLIANT).
H. PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.
I. SEE RISER DIAGRAMS FOR PIPE SIZING.

KEYNOTES

1 SEE CIVIL FOR CONTINUATION.

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BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
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DATE
06.22.2026

SHEET TITLE
UNDERFLOOR PLUMBING PLAN - AREA D

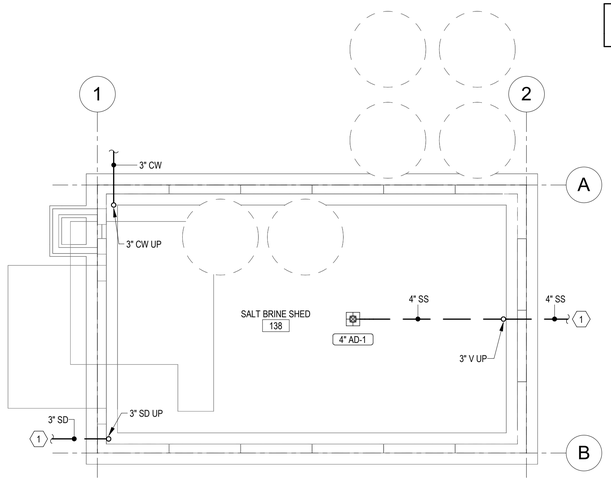
SHEET
P104

KEYNOTES

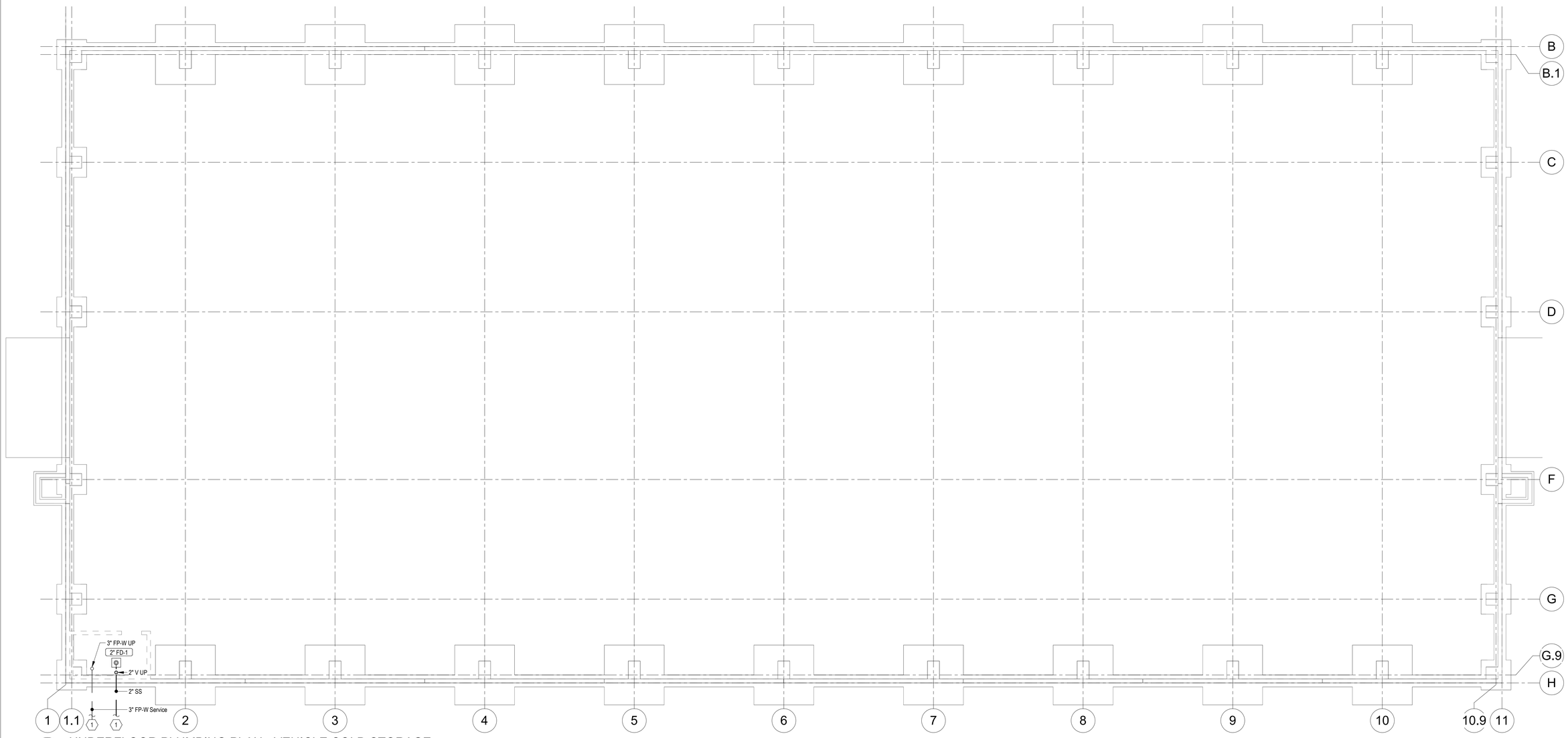
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2 UNDERFLOOR PLUMBING PLAN - BRINE SHED
1/8" = 1'-0"



1 UNDERFLOOR PLUMBING PLAN - VEHICLE COLD STORAGE
1/8" = 1'-0"

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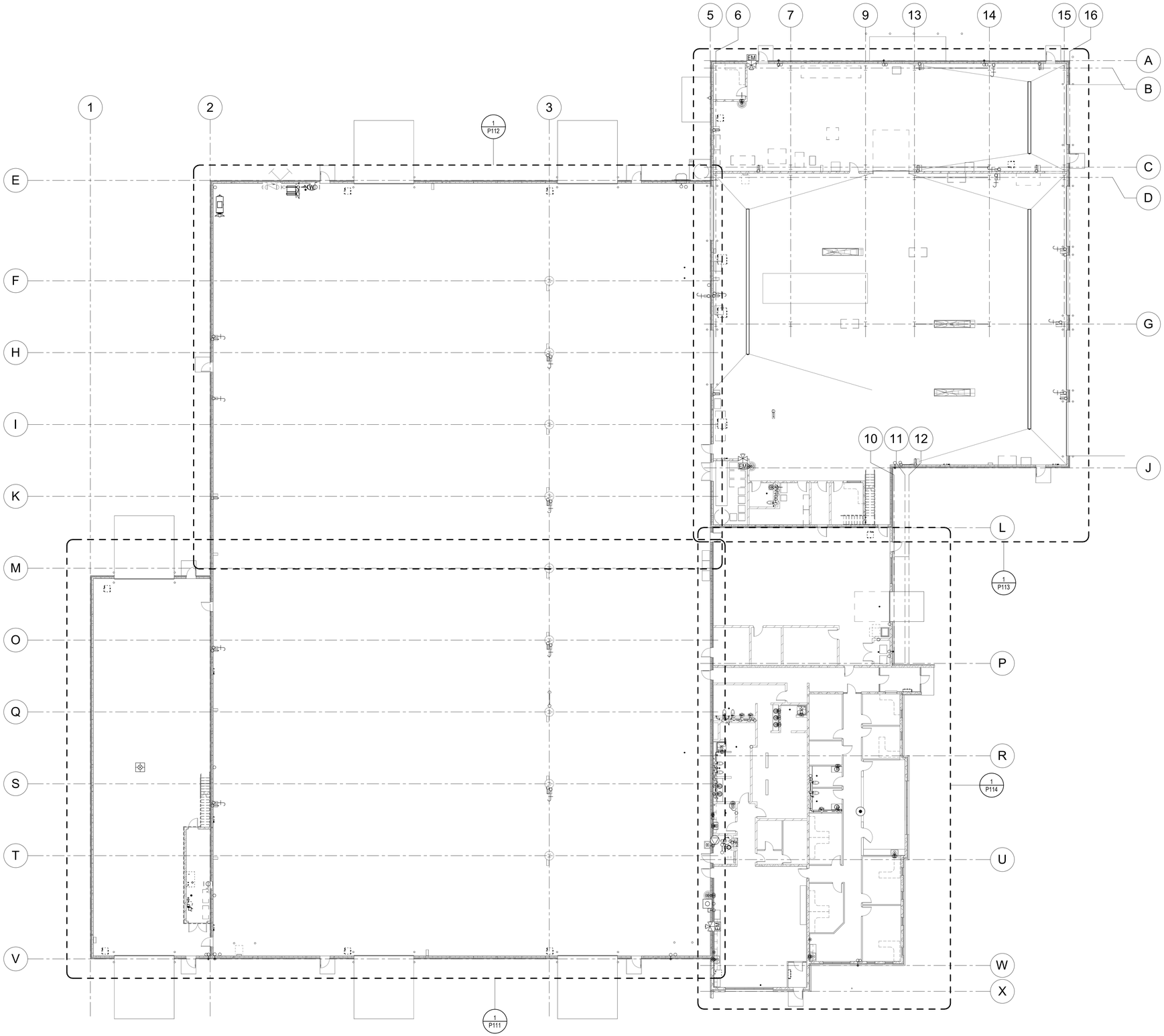
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50923

DATE
06.22.2026

SHEET TITLE
UNDERFLOOR PLUMBING PLAN - STORAGE & BRINE SHED

SHEET
P105



1 OVERALL ABOVE FLOOR PLUMBING PLAN

1/16" = 1'-0"

PLUMBING SHEET NOTES

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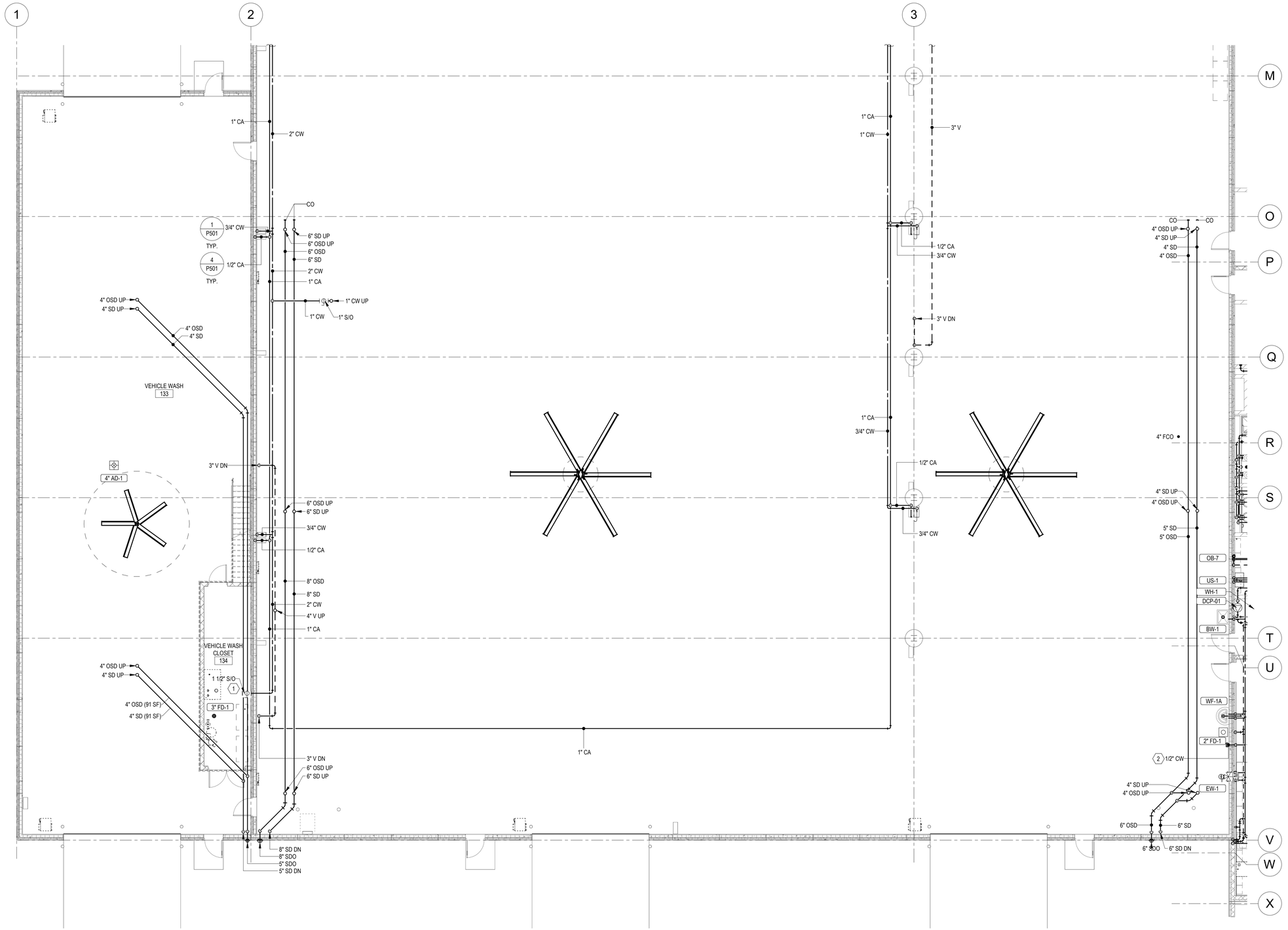
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50923

DATE
06.22.2026

SHEET TITLE
OVERALL ABOVE FLOOR PLUMBING PLAN

SHEET
P110



1 ABOVE FLOOR PLUMBING PLAN - AREA A

1/8" = 1'-0"

PLUMBING SHEET NOTES

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KEYNOTES

1 PROVIDE 1-1/2" VALVED COLD WATER AT MEZZANINE AND IN CLOSET BELOW.
2 ROUGH-IN COLD WATER FOR FUTURE.

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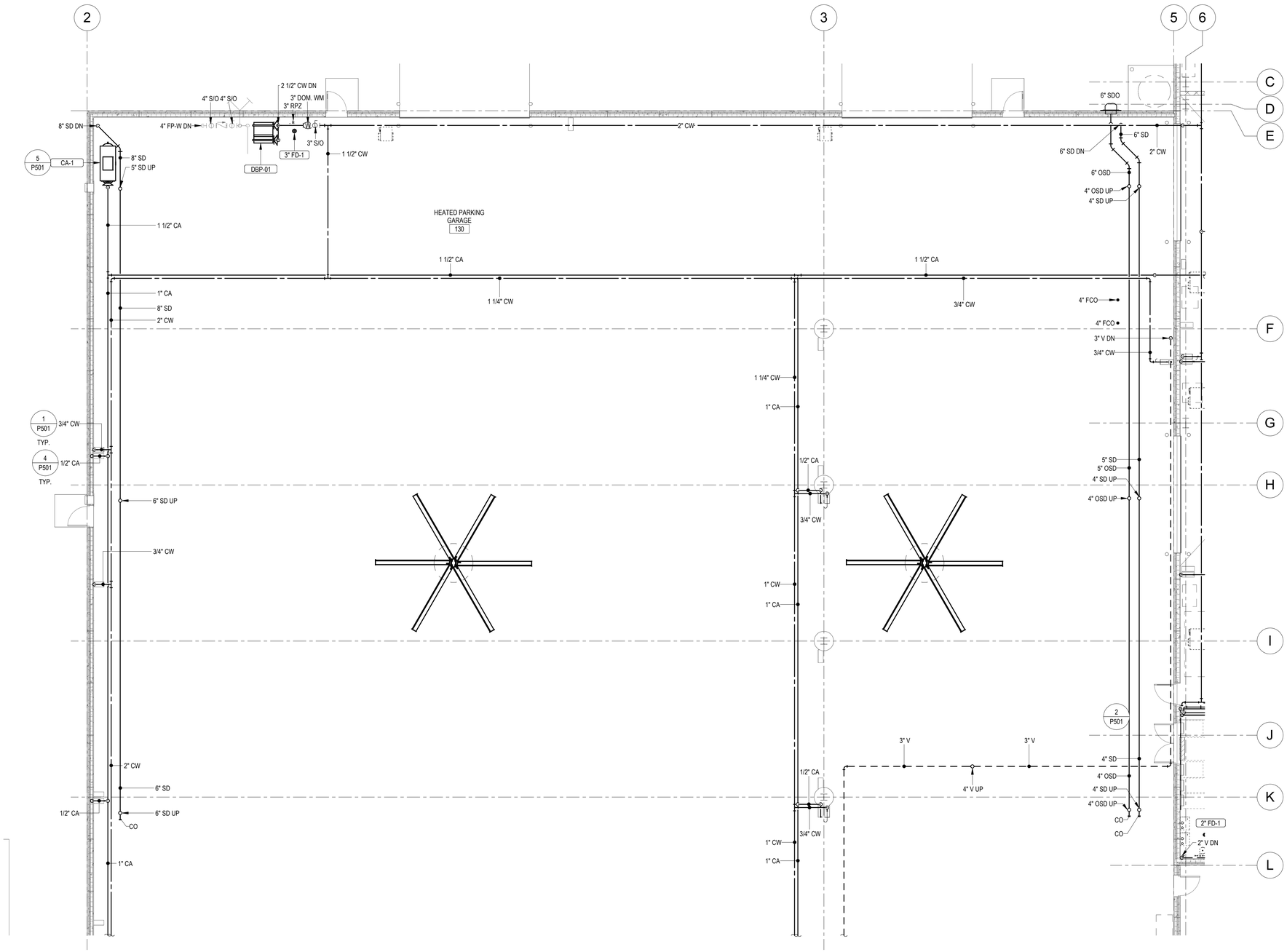
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50923

DATE
06.22.2026

SHEET TITLE
ABOVE FLOOR PLUMBING PLAN - AREA A

SHEET
P111



1 ABOVE FLOOR PLUMBING PLAN - AREA B

1/8" = 1'-0"

PLUMBING SHEET NOTES

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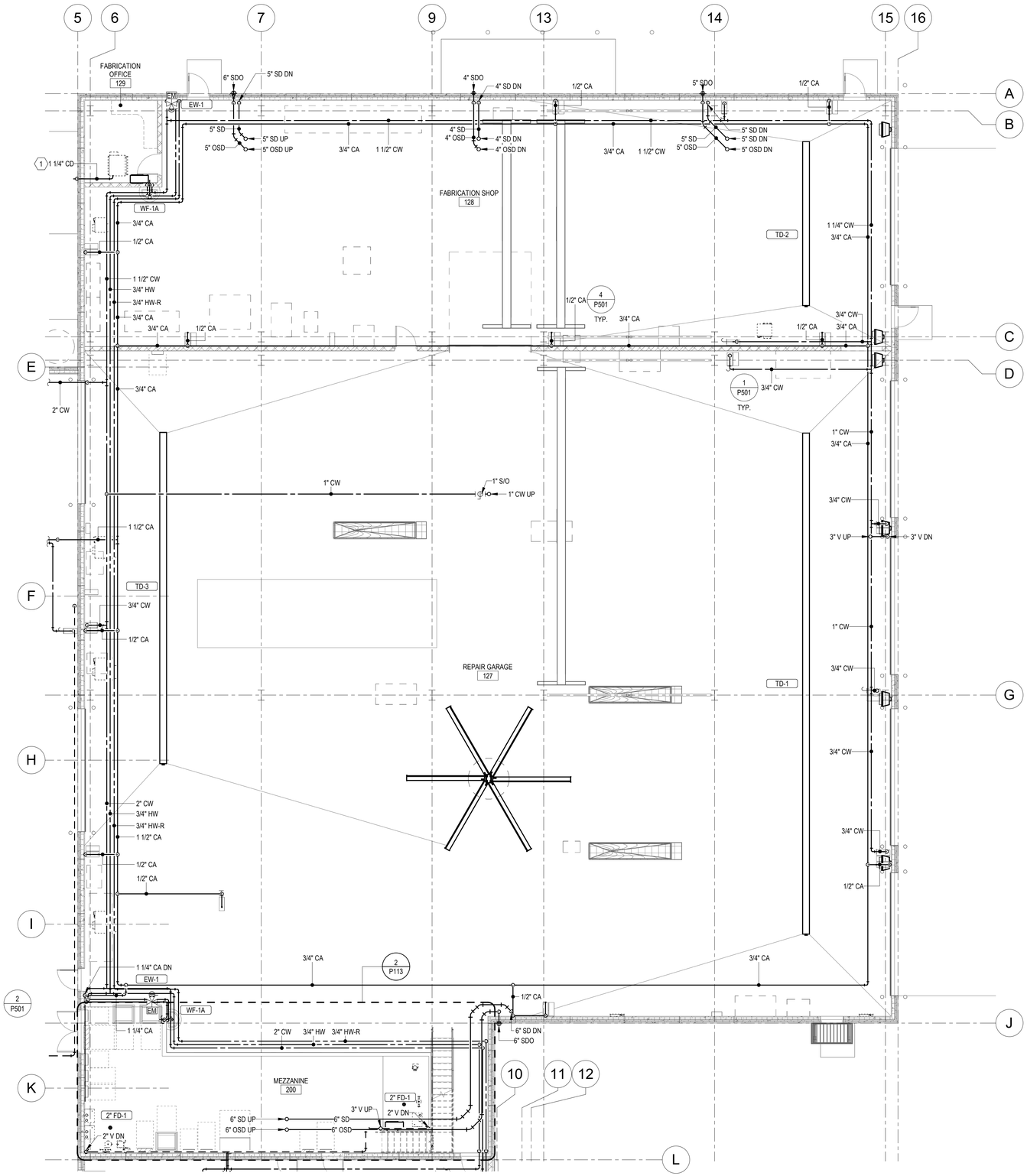
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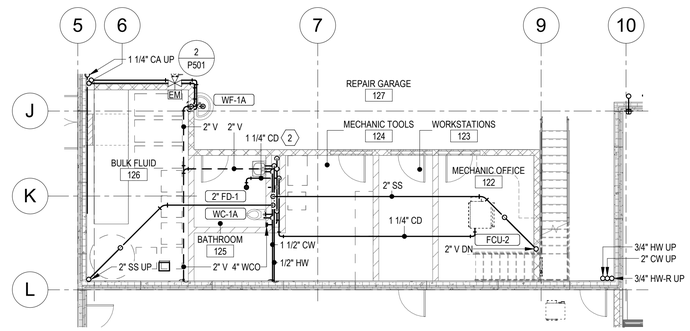
SHEET TITLE
ABOVE FLOOR PLUMBING PLAN - AREA B

SHEET
P112



1 ABOVE FLOOR PLUMBING PLAN - AREA C

1/8" = 1'-0"



2 MEZZANINE PLUMBING PLAN

1/8" = 1'-0"

PLUMBING SHEET NOTES

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I. SEE RISER DIAGRAMS FOR PIPE SIZING.

KEYNOTES

1 ROUTE CONDENSATE PIPING THRU EXTERIOR WALL AND TERMINATE OUTSIDE AS SHOWN.
2 ROUTE CONDENSATE PIPING WITHIN PLUMBING CHASE AND DISCHARGE TO VERTICAL RISER OF FLOOR DRAIN. PROVIDE AIR BREAK ABOVE THE ELEVATION OF THE TRAP OUTLET PER WI PLUMBING CODE.

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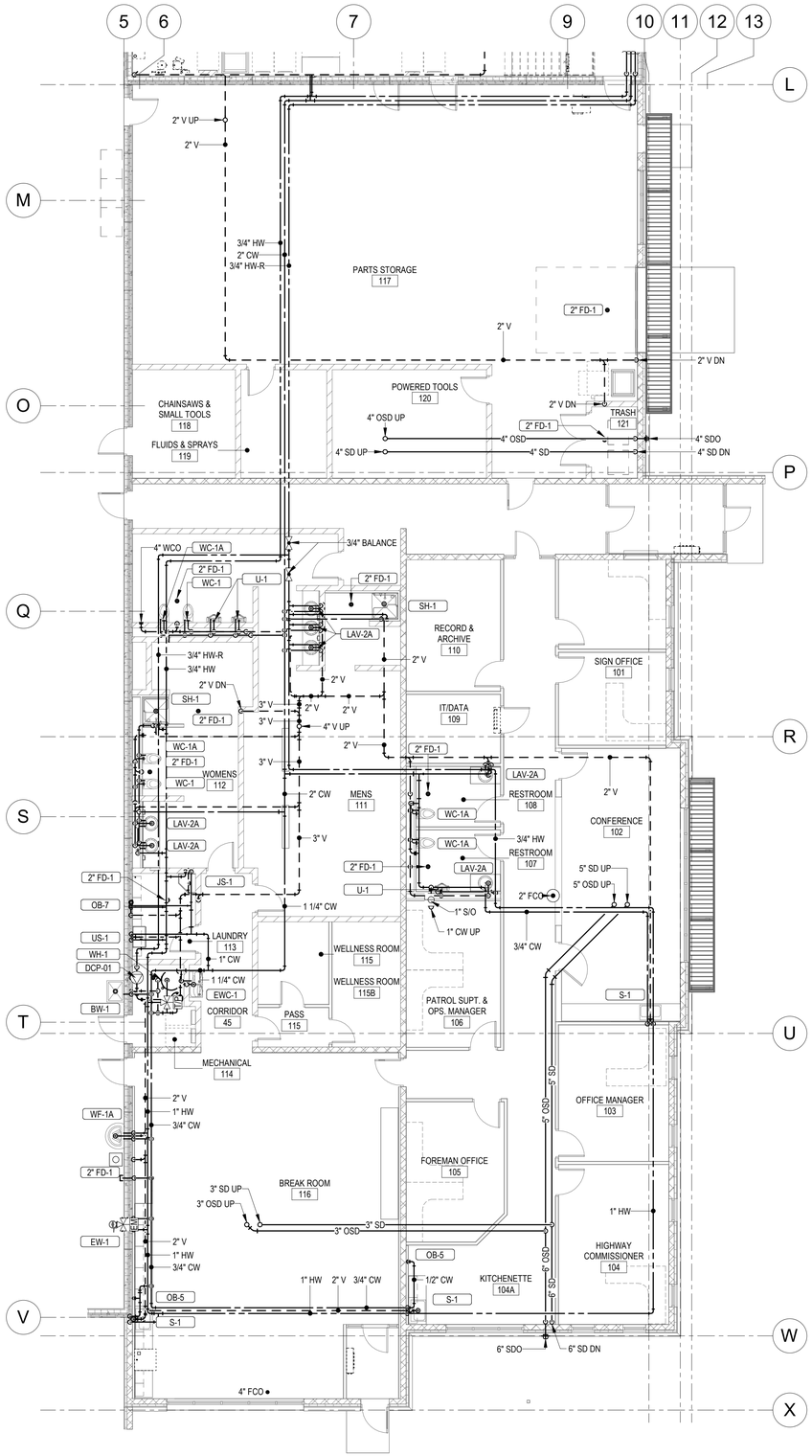
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DATE
06.22.2026

SHEET TITLE
ABOVE FLOOR PLUMBING PLAN - AREA C

SHEET
P113



1 ABOVE FLOOR PLUMBING PLAN - AREA D

1/8" = 1'-0"

PLUMBING SHEET NOTES

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DATE
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SHEET TITLE
ABOVE FLOOR PLUMBING PLAN - AREA D

SHEET
P114

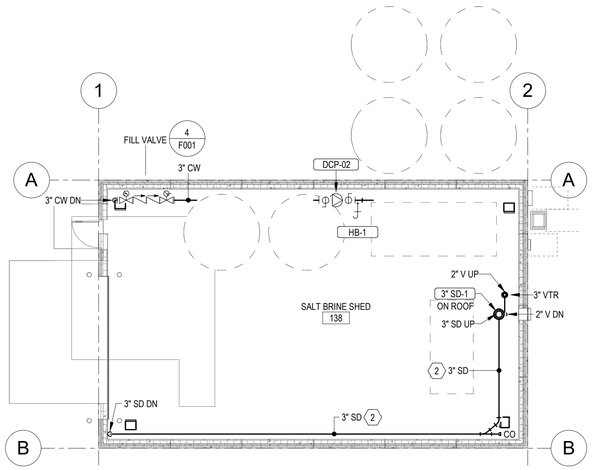
KEYNOTES

1 MOUNT AIR COMPRESSOR IN FIRE RISER ROOM. PLACE ON/OFF SWITCH AND POWER INDICATOR LIGHT ON OUTSIDE OF ROOM TO BE ACCESSIBLE WITHOUT ENTERING THE FIRE RISER ROOM.

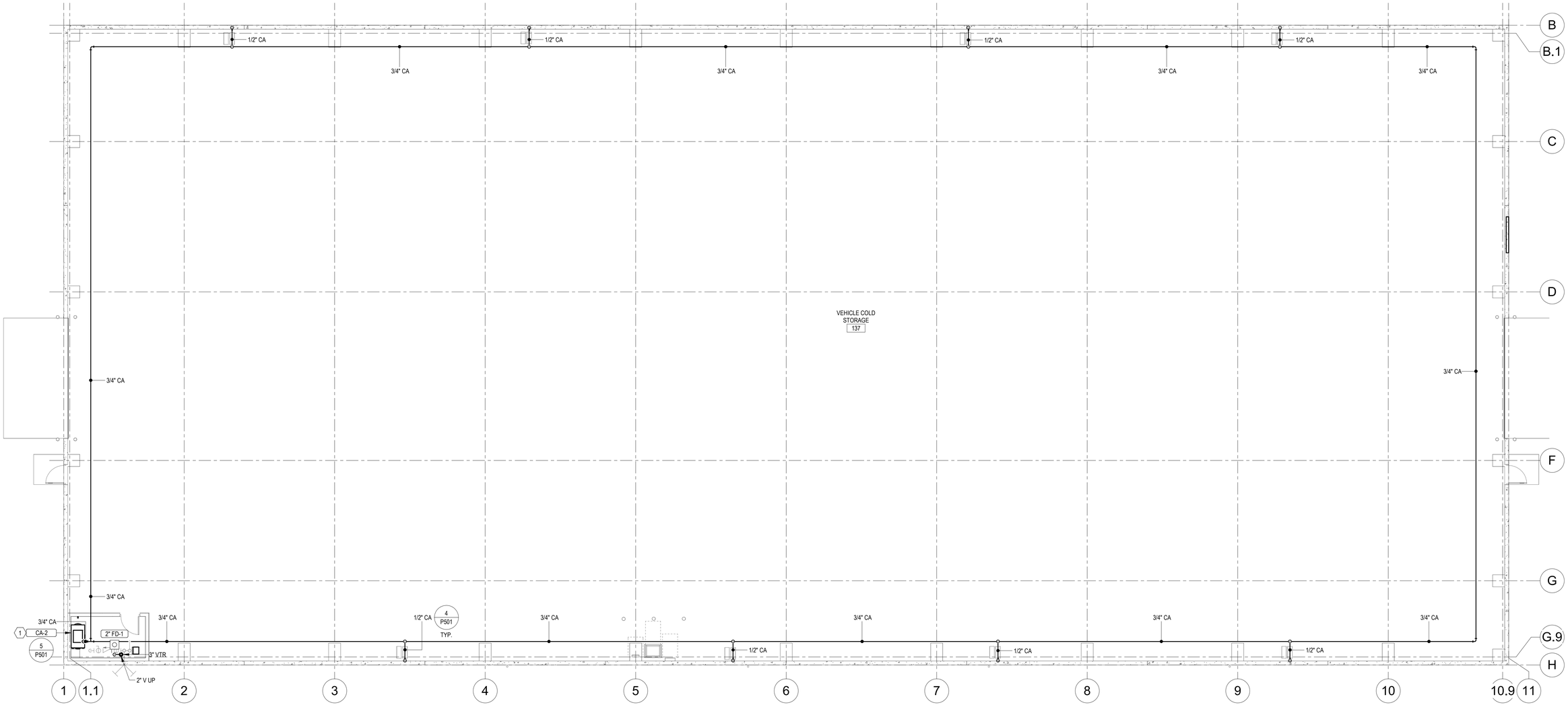
2 ROUTE STORM PIPING AS HIGH AS POSSIBLE AND TIGHT TO WALL.

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2 ABOVE FLOOR PLUMBING PLAN - BRINE SHED
1/8" = 1'-0"



1 ABOVE FLOOR PLUMBING PLAN - VEHICLE COLD STORAGE
1/8" = 1'-0"

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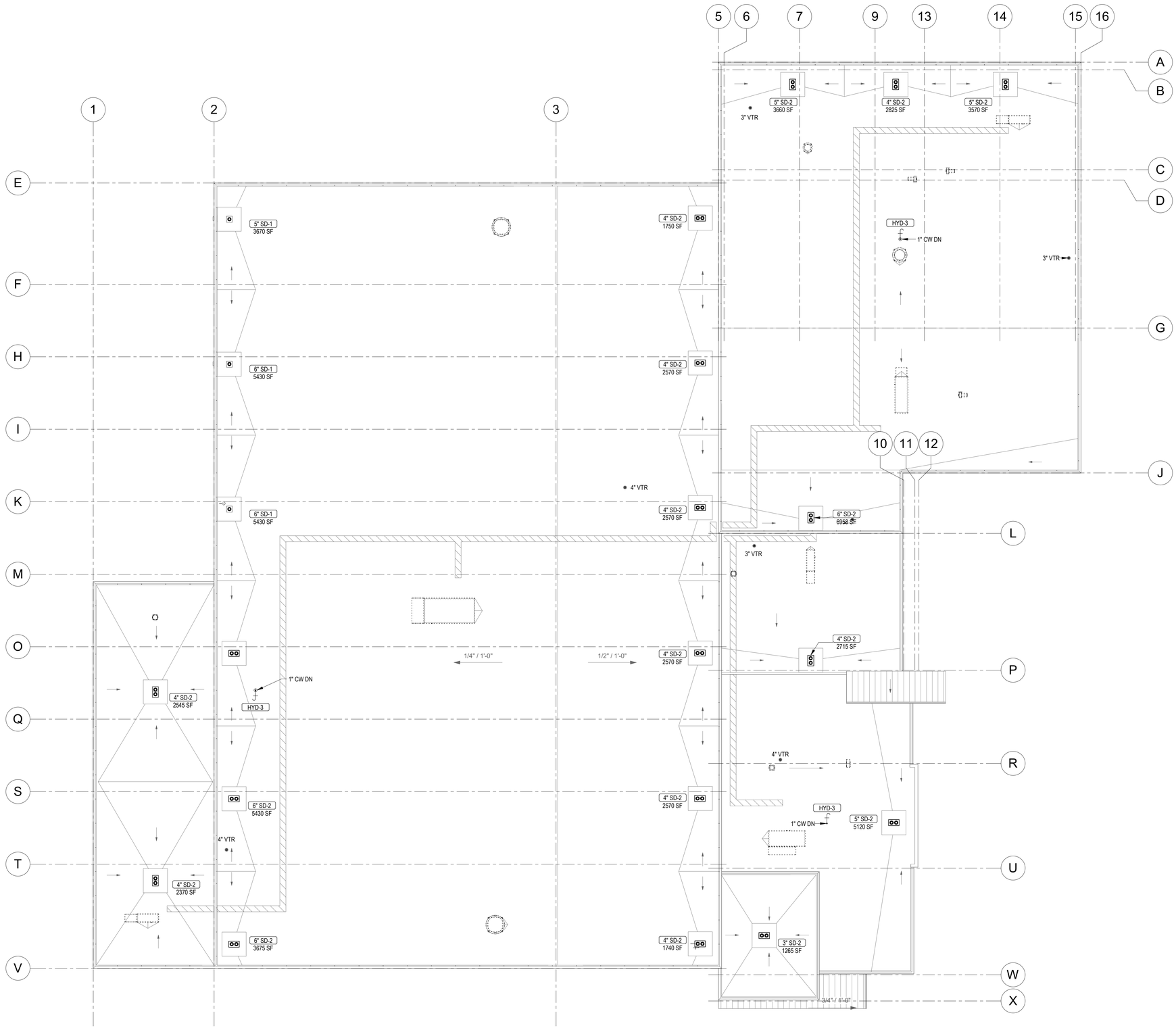
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SHEET TITLE
ABOVE FLOOR PLUMBING PLAN - STORAGE & BRINE SHED

SHEET
P115



1 ROOF PLUMBING PLAN

1/16" = 1'-0"

PLUMBING SHEET NOTES

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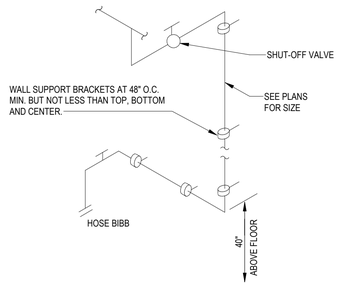
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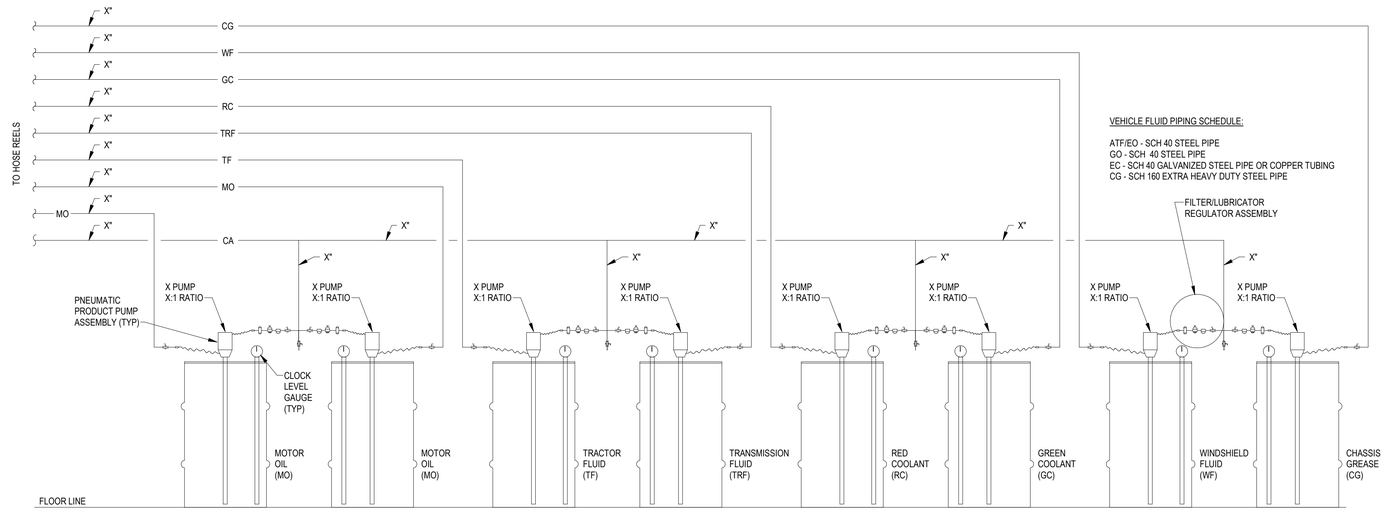
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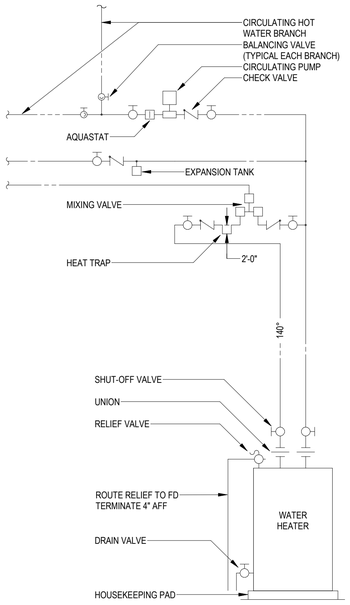
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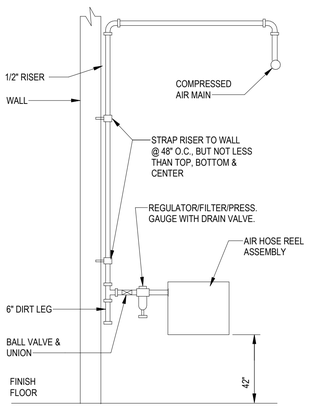
1 INTERIOR HOSE BIBB PIPING RISER
NOT TO SCALE



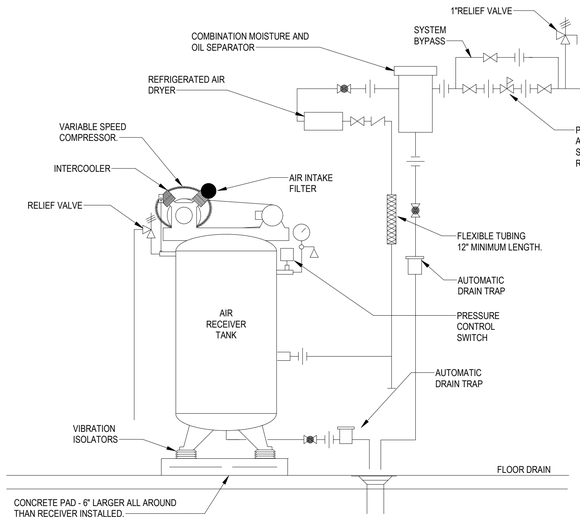
2 VEHICLE FLUID PIPING SCHEMATIC
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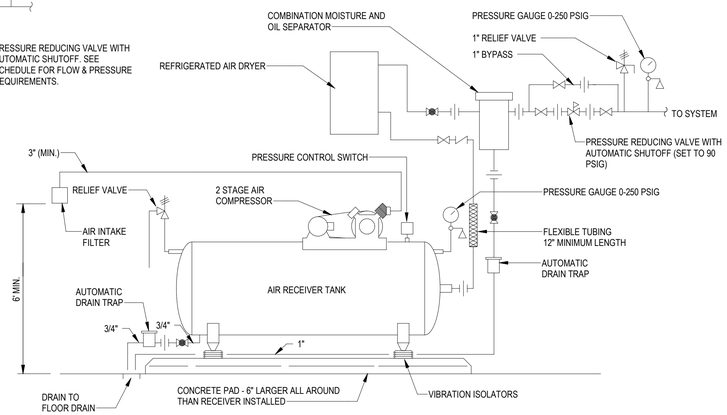
3 WATER HEATER PIPING DETAIL - SINGLE
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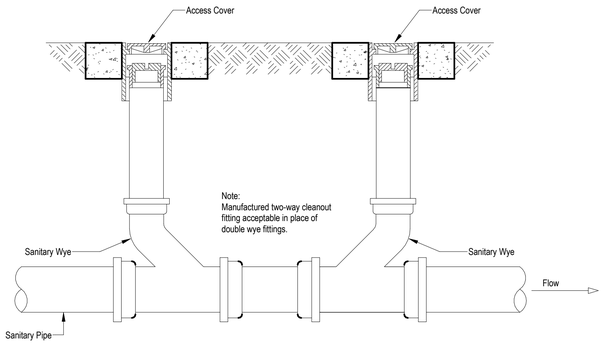


4 COMPRESSED AIR HOSE REEL DETAIL
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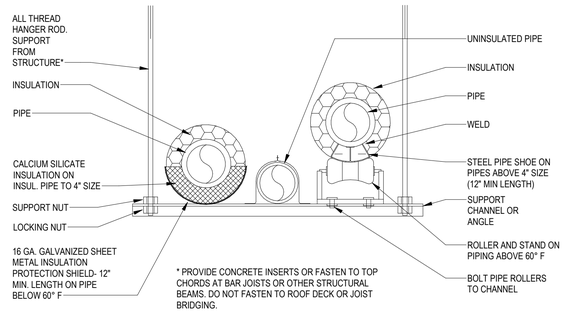


5 SIMPLEX AIR COMPRESSOR DETAIL
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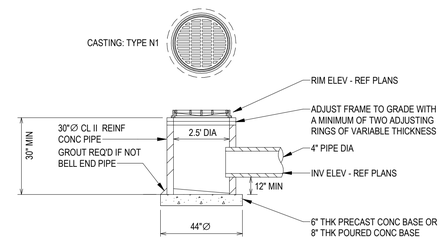




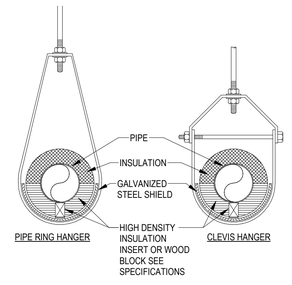
6 Two-Way Cleanout Detail
NOT TO SCALE



7 TRAPEZE PIPE HANGER DETAIL
NOT TO SCALE



8 2.5 FOOT AREA INLET (LOW PROFILE FLAT GRATE)
NOT TO SCALE



9 INSULATED PIPE AT HANGER DETAIL
NOT TO SCALE

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SHEET TITLE
PLUMBING DETAILS

SHEET
P501

PLUMBING FIXTURE SCHEDULE

Type Identity	Description	Manufacturer	Model	Qty	Product Type	Installation Type	ADA	Material Description	Finish	Trim		Water Performance Requirements		Domestic Supply		Domestic Connections			Drain-Waste-Vent				Product Specification	Notes
										Manufacturer M/N	Type	Design Flow	Flow or Flush Cycle Max GPF	Pressure Required	Max Outlet Temp.	Cold Water	Hot Water	Piping Size(s)	Application	Drain Size	DWV Tee	Vent Size		
BW-1	Boot Washer	Eagle Group	FF2119-SG-LRS	1	Boot Washer	Recessed Floor Set	No	Stainless Steel	Stainless Steel	Chicago Faucets / 897-Cp	Manual	2.5 GPM		15.0 psi	120 °F	Yes	No	3/4"	Direct to DWV Tee	3"	3"	3"	Recessed stainless steel boot wash basin with stainless steel grate flush with floor, splash gaurds on three sides, with chrome plated 3" drain and cast iron trap. Faucet shall include pail hook and atmospheric vacuum breaker spout. Furnish 5'-0" length of 5-ply garden hose with hose nozzle, fittings, and hose hook on wall.	
EW-1	Eyewash/Shower	Haws	8300-8309	3	Combination	Floor Set	No	ABS Plastic	Green			30.0 GPM			80 °F	No	Yes	1 1/4"	Indirect to Receptor	1 1/2"			Combination eyewash/drench shower station. Provide thermostatic mixing valve model 9201E Axion emergency tempering valve.	
EWC-1	Water Cooler	Elkay	EZSTL8WSSK	1	Bottle Filling Station - Dual Height	Wall Hung	No	Galvanized Steel	Stainless Steel			0.1 GPM		15.0 psi		Yes		1/2"	Direct to DWV Tee	1 1/4"	2"	2"	Bi-level wall hung water cooler with bottle filling station. The unit shall be complete with cabinet, mounting frame, self closing easy touch side and front pushbar controls, flexiguard safety bubbler, refrigerating system, air cooled, 120 Volt, 60 cycle, single phase power connection, fully automatic, complete and ready to operate.	
HB-1	Hose Bibb	Chicago Faucet	952-CP	17	Inside Sill Fitting	Wall Mount	No					2.5 GPM		25.0 psi		Yes		3/4"					Interior hose bibb with vacuum breaker, 3/4" hose thread outlet, lock shield cap, and removable "tee" handle. Provide shutoff valve in cold water supply ahead of hose bibb.	
HYD-3	Hydrant	Woodford	RHY2-MS	3	Freezeless Exterior	Floor Set	No					2.5 GPM		25.0 psi		Yes		1"					Non-freeze type roof hydrant, with ASSE 1052 double check backflow preventer, valve on the inside of the roof, hose connection with backflow preventer, and clocking handle on the outside of the roof. All exposed parts shall be painted. Make arrangements with the general contractor to provide the necessary support of roof. Provide shutoff valve in accessible location and route drain pipe to nearest floor drain.	
JS-1	Mop Sink	Fiat	MSB-2424	1	Mop Sink	Floor Set	No	Molded Stone		Chicago Faucets / 897-Cp	Manual	2.5 GPM		15.0 psi	120 °F	Yes	Yes	3/4"	Direct to DWV Tee	3"	3"	3"	Service basin with cap on two sides, with chrome plated 3" drain and cast iron trap. Faucet shall include pail hook and atmospheric vacuum breaker spout. Furnish 5'-0" length of 5-ply garden hose and fittings.	
LAV-1A	Lavatory	American Standard	Lucerne	1	Wall Hung ADA	Concealed Hanger	Yes	White Vitreous China	White	Chicago Faucets / 116.976.AB.1T	Sensor	0.5 GPM		15.0 psi	105 °F	Yes	Yes	1/2"	Direct to DWV Tee	1 1/2"	2"	2"	Wall hung lavatory with backsplash, single center faucet hole. Deck-mounted faucet with electronic dual beam infrared sensor, self sustaining power system with vandal resistant spray, 0.5 GPM aerator, set timer for 10 seconds, external ASSE 1070 thermostatic mixing valve, grid drain, loose key angle stops and supplies, all chrome plated. Insulate water and waste with ADA insulation kit.	
LAV-2A	Lavatory	American Standard	Aqualyn	7	Counter Mount ADA	Counter Set	Yes	White Vitreous China	White	Chicago Faucets / 116.976.AB.1T	Sensor	0.5 GPM		15.0 psi	105 °F	Yes	Yes	1/2"	Direct to DWV Tee	2"	2"	2"	Self-rimming oval countertop lavatory, single center faucet hole. Deck-mounted faucet with electronic dual beam infrared sensor, self sustaining power system with vandal resistant spray, 0.5 GPM aerator, set timer for 10 seconds, external ASSE 1070 thermostatic mixing valve, grid drain, loose key angle stops and supplies, all chrome plated. Insulate water and waste with ADA insulation kit.	
OB-5	Outlet Box	Sioux Chief	696 Series	2	Ice Maker	Recessed		ABS Plastic	White			0.5 GPM		15.0 psi	50 °F	Yes	No	1/2"					Fully recessed outlet box with white trim. Domestic supply connection with quarter-turn ball valve water hammer arrester.	
OB-7	Outlet Box	Sioux Chief	696 Series	1	Washing Machine	Recessed		ABS Plastic	White			0.5 GPM		15.0 psi	120 °F	Yes	Yes	1/2"	Direct to DWV Tee	2"	2"	2"	Fully recessed outlet box with white trim. Domestic supply connections with quarter-turn ball valves and water hammer arresters. Provide a 2" trapped and vented standpipe in concealed wall space below box.	
S-1	Sink	Elkay	LRAD221955-3	3	Single Bowl	Floor Set	No	Stainless Steel	Stainless Steel	Elkay / Lk1000CR		1.5 GPM		15.0 psi	105 °F	Yes	Yes	1/2"	Direct to DWV Tee	1 1/2"	2"	2"	Single Compartment, Ada Compliant, Self-Rimming, 18 Gauge. Single Lever Swivel Faucet. One Elkay Model No. Lk35 Basket Strainer, P-Trap, Tailpieces, Supplies And Stops. Insulate Water And Waste To Meet Ada Requirements.	
SH-1	Shower Stall	Sterling	Accord	2	Shower	Floor Set	No	Vikrell	White	Symmons / S-96-2		1.0 GPM		15.0 psi	105 °F	Yes	Yes	1/2"	Direct to DWV Tee	2"	2"	2"	Provide a shower drain as specified in "Soil, Waste, and Vent Piping Systems". 36"x36" shower stall shall be solid Vikrell material in alcove configuration with center drain. Shower system shall be provided with ASSE 1016 compliant type "T/P" thermostatic/pressure balancing combination mixing valve with adjustable stop screw to limit handle turn. Provide manufacturer's flow rate restrictor on showerhead.	
U-1	Urinal	American Standard	Washbrook	3	Wall Hung	Wall Hung	No	White Vitreous China	White	American Standard / 6045.013.002	Manual Flush Valve		0.125 gal	15.0 psi		Yes		3/4"	Direct to DWV Tee	2"	2"	2"	Wall hung urinal with washout action, top spud, size 18" with integral extended shields supported by through going bolts and chrome plated nuts. Solar powered sensor activated flushometer.	
US-1	Laundry Tub	Fiat	SF-1-F	1	Utility Sink	Floor Set	No	Polypropylene	White	Fiat / A-1		1.0 GPM		15.0 psi	120 °F	Yes	Yes	1/2"	Direct to DWV Tee	1 1/2"	2"	2"	Single Compartment free standing polypropylene laundry tub with steel legs, integral drain and drain plug, dual lever manual swivel faucet. P-Trap, tailpieces, supplies and stops. Insulate water and waste to meet ADA requirements.	
WC-1	Water Closet	American Standard	Afwall	2	Flush Valve	Wall Hung	No	White Vitreous China	White	American Standard / 6047.121.002	Manual Flush Valve		1.28 gal	15.0 psi		Yes		1"	Drain to Carrier Hub	4"		2"	Elongated wall hung water closet, 1-1/2" top spud, with Church 295CT elongated open front seat. Manual flushometer.	
WC-1A	Water Closet	American Standard	Afwall	5	Flush Valve ADA	Wall Hung	Yes	White Vitreous China	White	American Standard / 6047.121.002	Manual Flush Valve		1.28 gal	15.0 psi		Yes		1"	Drain to Carrier Hub	4"		2"	Elongated wall hung water closet, 1-1/2" top spud, with Church 295CT elongated open front seat. Manual flushometer. Install at ADA compliant height.	
WF-1A	Wash Fountain	Bradley	WF2504	3	ADA	Concealed Hanger	Yes	Terreon	White		Manual Foot Pedal	1.0 GPM		15.0 psi	105 °F	Yes	Yes	1/2"	Direct to DWV Tee	1 1/2"	2"	2"	54" Semi-Circular, 4 users, standard height, foot activated, with thermostatic mixing valve.	

FLOOR DRAIN SCHEDULE

Type Identity	Manufacturer	Model	Qty	Product Type	Body Material	Strainer Type	Design Pipe Size	Drain-Waste-Vent				Primer Tap		Product Specification	Notes
								Vent Connection	Drain Size	DWV Tee	Vent Size	Include	Size		
AD-1	Watts	FD-330	6	Area Drain with Catch Basin	Cast Iron		4"	No	4"			No		Area drain with anchor flange, body collar with weepholes, 8"x8"(203x203) square adjustable top with heel proof grate, and no hub (standard) outlet.	
FD-1	Watts	FD-100-A	15	Round Strainer	Cast Iron	Nickel Bronze	2"	Yes	2"	2"	2"	No		Epoxy coated cast iron floor drain with anchor flange, reversible clamping collar with primary & secondary weephcles, adjustable round heel proof nickel bronze strainer, and no hub outlet.	
FD-1	Watts	FD-100-A	2	Round Strainer	Cast Iron	Nickel Bronze	3"	Yes	3"	3"	2"	No		Epoxy coated cast iron floor drain with anchor flange, reversible clamping collar with primary & secondary weephcles, adjustable round heel proof nickel bronze strainer, and no hub outlet.	

TRENCH DRAIN SCHEDULE

Type Identity	Manufacturer	Model	Qty	Product Type	Installation Type	Body Material	Body Size		Grate System			System Pipe Size	Product Specification	Notes
							Length	Width	Material	Load Class	Width			
TD-1	ACO Drain	S300K	1	Prefab Trench System	Concrete Form	Polymer Concrete	880"	12"	Ductile Iron	Extra Heavy Duty	11 1/4"	4"	Provide pre-sloped trench drain system with integral catch basin. Connection locations shall be as indicated on plans.	
TD-2	ACO Drain	S300K	1	Prefab Trench System	Concrete Form	Polymer Concrete	288"	12"	Ductile Iron	Extra Heavy Duty	11 1/4"	4"	Provide pre-sloped trench drain system with integral catch basin. Connection locations shall be as indicated on plans.	
TD-3	ACO Drain	S300K	1	Prefab Trench System	Concrete Form	Polymer Concrete	582"	12"	Ductile Iron	Extra Heavy Duty	11 1/4"	4"	Provide pre-sloped trench drain system with integral catch basin. Connection locations shall be as indicated on plans.	

STORM DRAIN SCHEDULE

Type Identity	Description	Manufacturer	Model	Qty	Product Type	Installation Type	Design Pipe Size	Body Material	Strainer Type	Grate System		Product Specification	Notes
										Material	Load Class		
SD-2	COMBINATION DRAIN	MIFAB	R1270	1	Combined Large Sump With Secondary Overflow		3"	Lacquered Cast Iron	Polyethylene			Combined large sump roof drain and secondary overflow system; consisting of 24" x 42" galvanized sump receiver, two roof drain bodies with 15" diameter anchor flange, cast iron waterproofing membrane clamp rings with integral gravel stop, one 4" ABS overflow standpipe and two self-locking dome strainers with a combined free area of 250 square inches.	
SD-2	COMBINATION DRAIN	MIFAB	R1270	10	Combined Large Sump With Secondary Overflow		4"	Lacquered Cast Iron	Polyethylene			Combined large sump roof drain and secondary overflow system; consisting of 24" x 42" galvanized sump receiver, two roof drain bodies with 15" diameter anchor flange, cast iron waterproofing membrane clamp rings with integral gravel stop, one 4" ABS overflow standpipe and two self-locking dome strainers with a combined free area of 250 square inches.	
SD-2	COMBINATION DRAIN	MIFAB	R1270	3	Combined Large Sump With Secondary Overflow		5"	Lacquered Cast Iron	Polyethylene			Combined large sump roof drain and secondary overflow system; consisting of 24" x 42" galvanized sump receiver, two roof drain bodies with 15" diameter anchor flange, cast iron waterproofing membrane clamp rings with integral gravel stop, one 4" ABS overflow standpipe and two self-locking dome strainers with a combined free area of 250 square inches.	
SD-2	COMBINATION DRAIN	MIFAB	R1270	4	Combined Large Sump With Secondary Overflow		6"	Lacquered Cast Iron	Polyethylene			Combined large sump roof drain and secondary overflow system; consisting of 24" x 42" galvanized sump receiver, two roof drain bodies with 15" diameter anchor flange, cast iron waterproofing membrane clamp rings with integral gravel stop, one 4" ABS overflow standpipe and two self-locking dome strainers with a combined free area of 250 square inches.	
SD-1	ROOF DRAIN	MIFAB	R1200	1	Large Sump		3"	Lacquered Cast Iron	Polyethylene			Deep sump roof drain with 15" diameter anchor flange, 2" high cast iron external combined water dam and waterproofing membrane clamp ring, and standard self-locking dome strainer with a free area of 125 square inches.	
SD-1	ROOF DRAIN	MIFAB	R1200	1	Large Sump		5"	Lacquered Cast Iron	Polyethylene			Deep sump roof drain with 15" diameter anchor flange, 2" high cast iron external combined water dam and waterproofing membrane clamp ring, and standard self-locking dome strainer with a free area of 125 square inches.	
SD-1	ROOF DRAIN	MIFAB	R1200	2	Large Sump		6"	Lacquered Cast Iron	Polyethylene			Deep sump roof drain with 15" diameter anchor flange, 2" high cast iron external combined water dam and waterproofing membrane clamp ring, and standard self-locking dome strainer with a free area of 125 square inches.	

GAS-FIRED WATER HEATER SCHEDULE

Identity	Location		Manufacturer	Model	Product Type	Installation Type	Domestic Piping Size	Temp. Rise	Hot Setpoint	Recovery Capacity	Storage Capacity	MAWP	Gas Burner			Flue Vent	Electrical		Product Weight	Operating Weight	Notes
	Name	No.											Type	Input Rating	Output Rating	Efficiency	Voltage	Phase			
WH-1	MECHANICAL	114	AO Smith	BTT-199	Condensing	Floor-set	1 1/2"	100 °F	140 °F	256 GPH	100 gal	160 psi	NG	199900 Btu/h	191904 Btu/h	96.0%	3"	120 V	1	523 lb	1358 lb	Provide ASSE 1017 Accepted Mixing Valve	

DOMESTIC CIRCULATOR PUMP SCHEDULE

Identity	Location		Manufacturer	Model	Product Type	System Fluid	Max System Temp.	Material	Pump Design		Design Pipe Size	Connections		Motor		Electrical		Product Weight	Specification	Notes
	Name	No.							Flow	Head		Suction	Discharge	Power	FLA	Voltage	Phase			
DCP-02	SALT BRINE SHED	138	Taco	VR15M	Inline	Dom. Water	80 °F	Cast Iron	50.0 GPM	10.0 FT	2"	2"	2"	447 W	6.3 A	208 V	1	28 lb		
DCP-01	MECHANICAL	114	Bell & Gossett	PL-45	Inline	Dom. Water	140 °F	Cast Iron	4.4 GPM	24.0 FT	1"	1"	1"	60 W	2.1 A	120 V	1	7 lb		

THERMOSTATIC MIXING VALVE SCHEDULE

Identity	Installed Location	Manufacturer	Model	Product Type	Material	Finish	System Fluid	System Outlet	Domestic Piping Size	Cold Water Supply Temp.	Design Temperatures			Connected System Flow	Capacity		Minimum Flow	MAWP	MAWT	Weight	Notes
											Cold In	Hot In	Setpoint		Flow Rate	WPD					
TMV-1	114 MECHANICAL	Powers	LFMM432	Master Mixer	Lead Free Brass	Rough Bronze	Domestic	1"	3/4"	40 °F	40 °F	140 °F	120 °F	25.0 GPM	42 GPM	20 psi	4.0 GPM	125 psi	200 °F	20 lb	

Domestic Booster Pump System

Identity	Location		Manufacturer	Model	Product Type	Installation Type	No. of Pumps		Pump Design		Header Pipe Size	Motor				Electrical			Specification	Notes
	Name	No.					System	Standby	Flow	Pressure Boost		Qty	Power	RPM	FLA	Voltage	Phase	Weight		
DBP-01	HEATED PARKING GARAGE	130	Xylem	2A30B	Variable Speed Duplex	Packaged Skid	1	1	70 GPM	40 psi	2"	2	3.00 hp	3600	10.6 A	208 V	3	1314 lb		

THERMAL EXPANSION TANK SCHEDULE

Identity	Location		Manufacturer	Model	Product Type	Installation Type	System Fluid	Water Meter Pressure	Water Supply Temp.	Max System Temp.	System Pipe Size	ASME	Tank Fill		Tank Acceptance		Tank Capacity	Product Weight	Operating Weight	Notes
	Name	No.											Pressure	Temp.	Factor	Volume				
DET-1	MECHANICAL	114	Amtrol	ST-30VC-DD	Fixed Diaphram	Floor Stand	Dom. Water	60 psi	40 °F	140 °F	3/4"	Yes	60 psi	40 °F	68.0%	11.2 gal	16.5 gal	48 lb	142 lb	

Air Compressor Schedule

Identity	Location		Manufacturer	Model	Product Type	Compressor Spec	ASME	Tank Capacity	System Pipe Size	Design Airflow Rate	Full Load Rating		Motor		Electrical		Weight	Notes
	Name	No.									Capacity	Pressure	Power	FLA	Voltage	Phase		
CA-1	HEATED PARKING GARAGE	130	Ingersoll Rand	15TE20	Oil-Flooded	Variable Speed Rotary Screw	Yes	120.0 gal	1"	69 CFM	74 CFM	175 psi	20.0 hp	27.0 A	480 V	3	1597 lb	PROVIDE PREMIUM PACKAGE ACCESSORIES.
CA-2	VEHICLE COLD STORAGE	137	Ingersoll Rand	R7.5n TAS	Oil-Flooded	Variable Speed Rotary Screw	Yes	80.0 gal	1"	40 CFM	42 CFM	100 psi	10.0 hp	14.0 A	480 V	3	772 lb	PROVIDE TOTAL AIR SYSTEM (TAS) WITH INTEGRATED DRYER.

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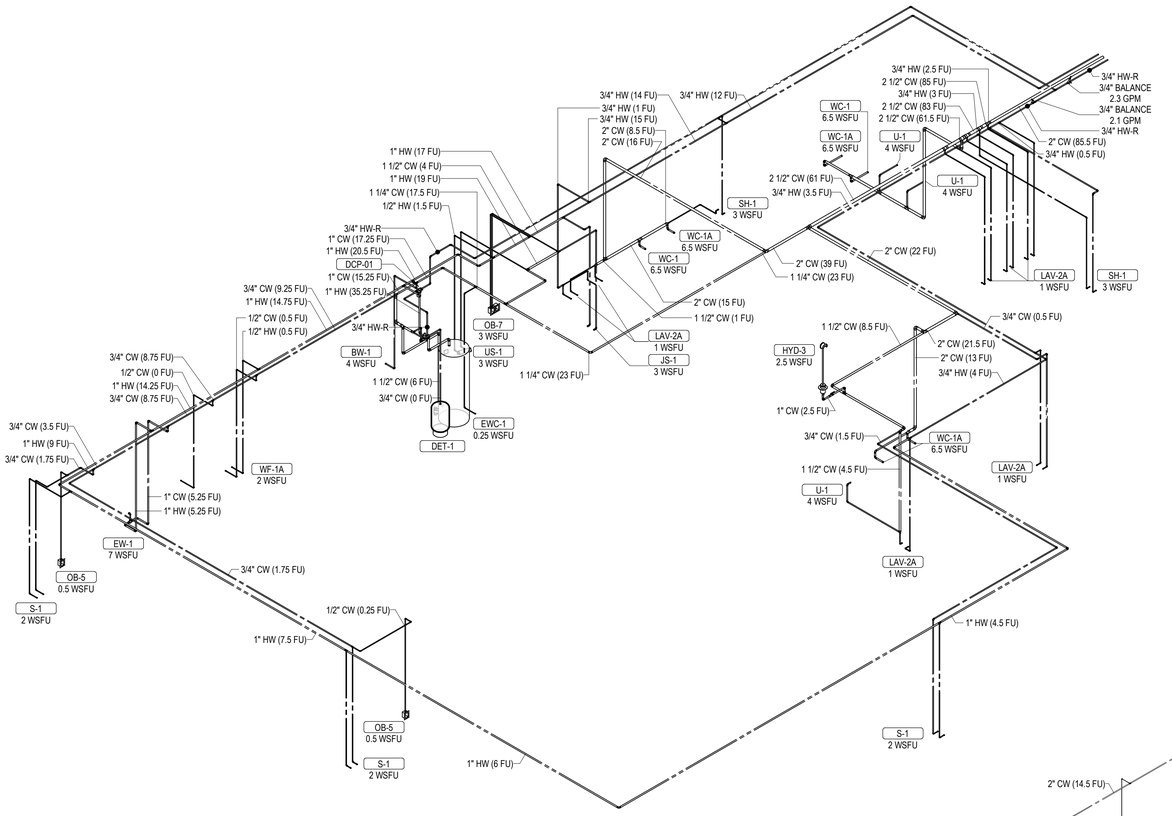
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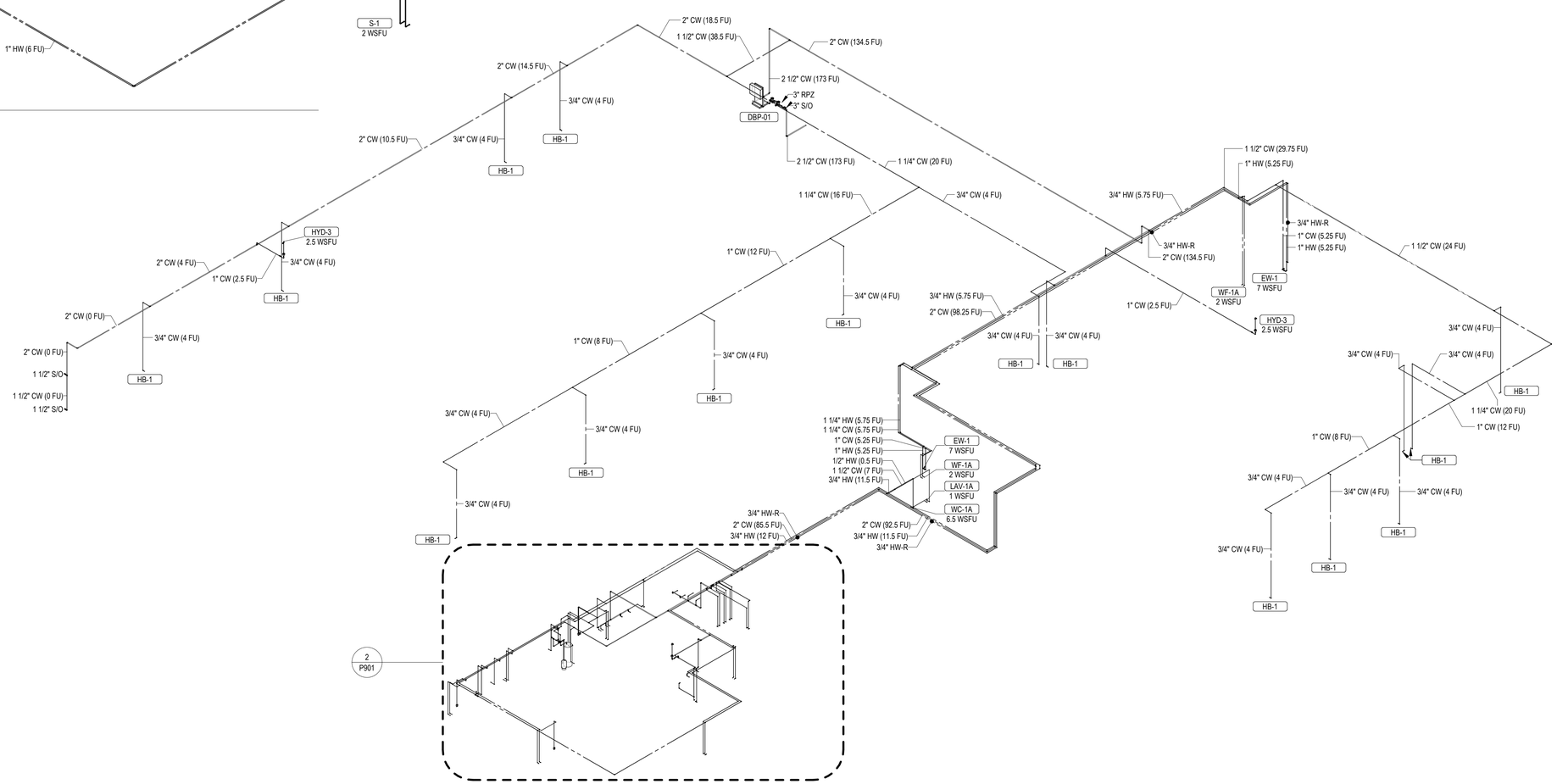
DATE
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SHEET TITLE
PLUMBING SCHEDULES

SHEET
P601



2 DOMESTIC WATER RISER DIAGRAM



1 DOMESTIC WATER RISER DIAGRAM

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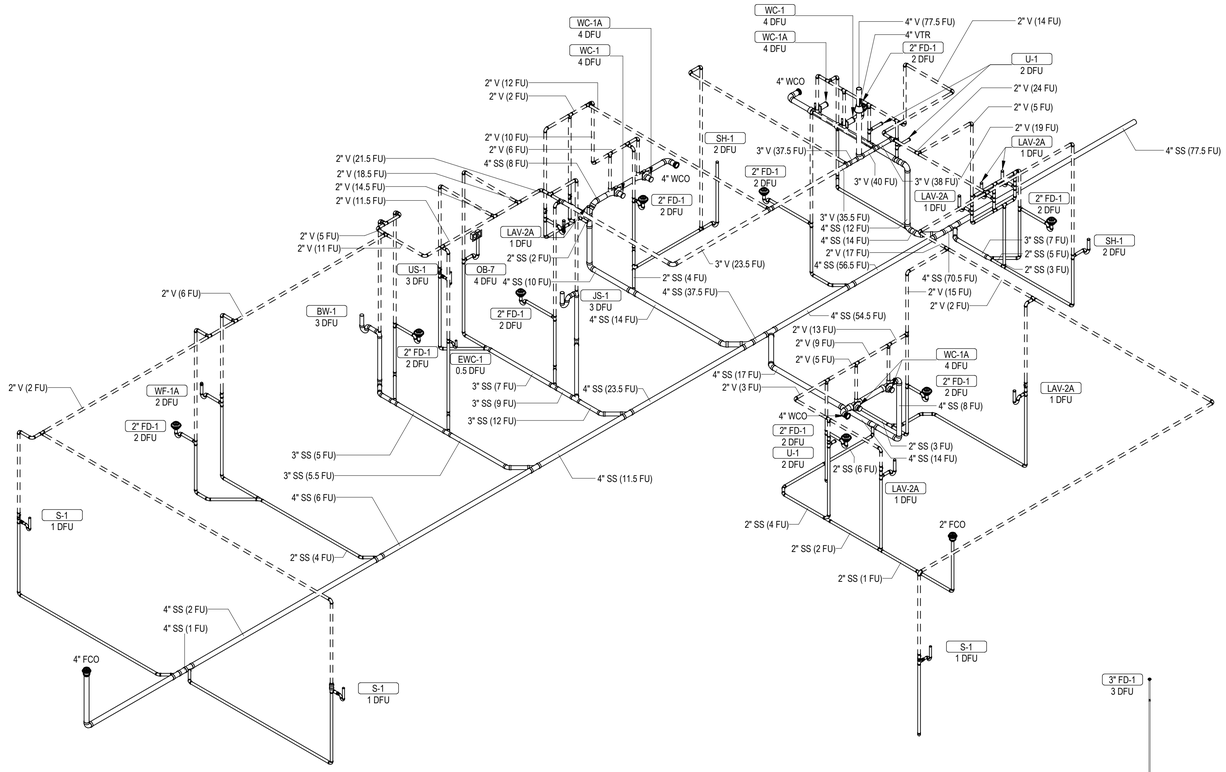
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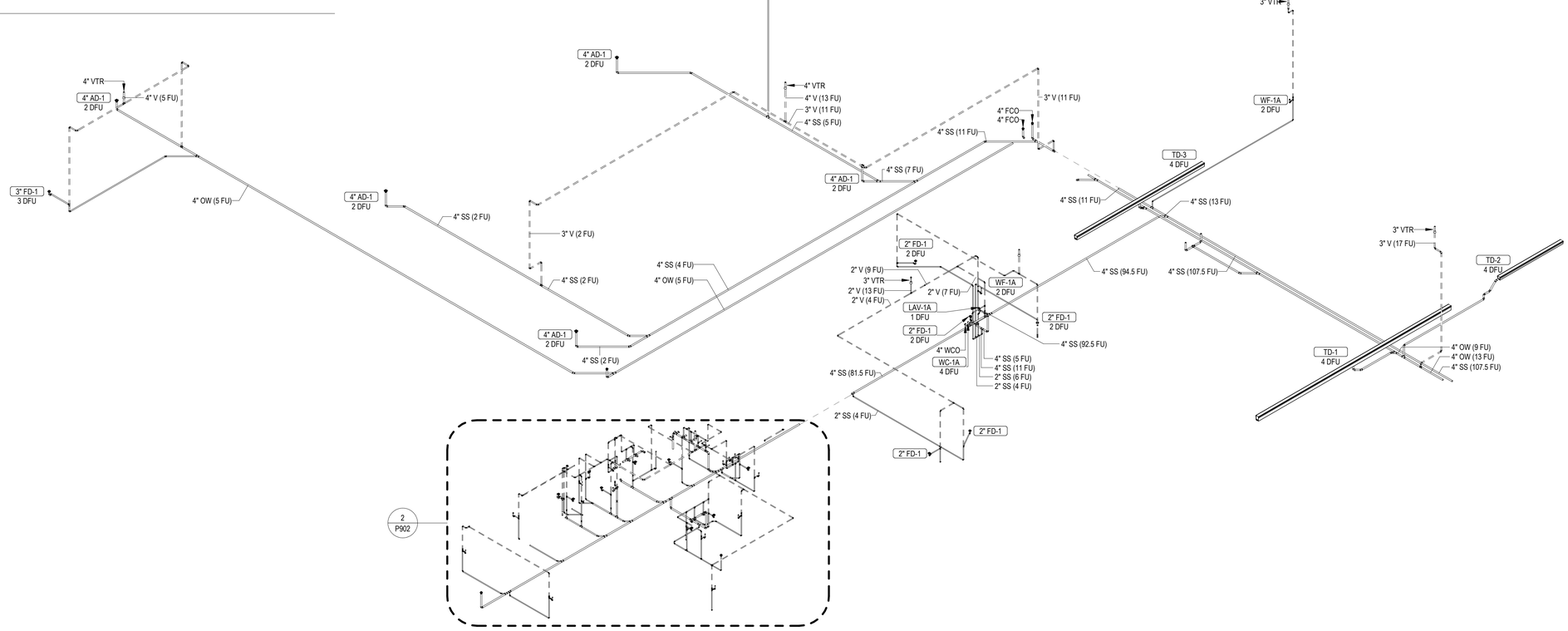
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SHEET TITLE
DOMESTIC WATER RISER DIAGRAM

SHEET
P901



2 DRAIN-WASTE-VENT RISER DIAGRAM



2
P902

1 DRAIN-WASTE-VENT RISER DIAGRAM

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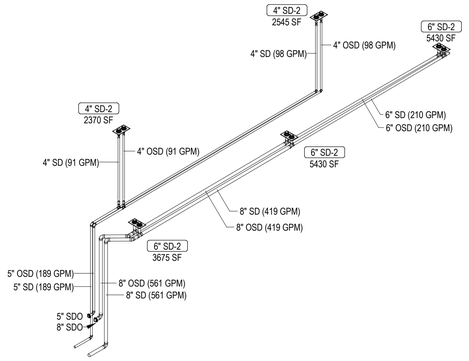
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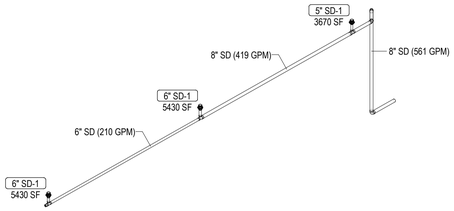
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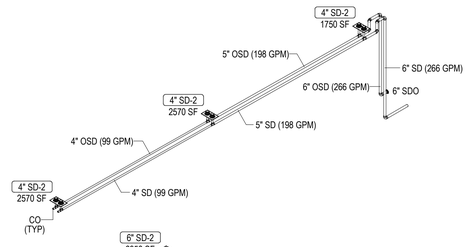
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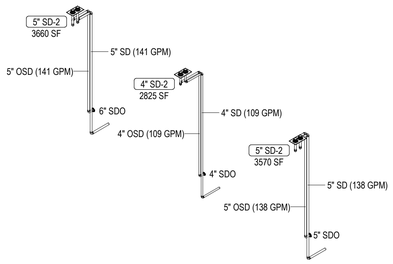
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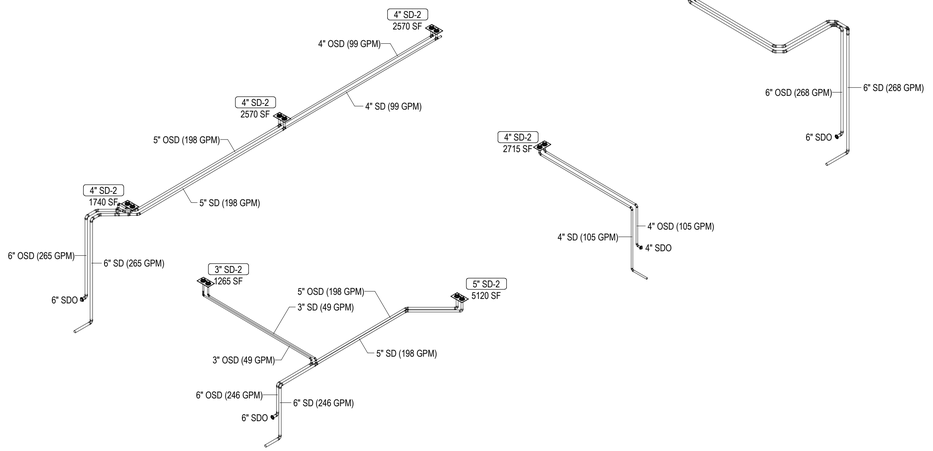
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P902











1 STORM PIPING RISER DIAGRAM

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P903

GENERAL PLAN SYMBOLS

- 1 — PLAN REVISION NUMBER
- - / --- — DETAIL NUMBER ON SHEET / SHEET NUMBER WHERE DETAIL IS PLACED
- 1 — KEYNOTE SYMBOL
- CONTINUATION SYMBOL
- POINT WHERE NEW CONNECTS TO EXISTING
- Room 4 — ROOM NAME / NUMBER
- AREA BEING DEMOLISHED
- AREA NOT IN CONTRACT

ABBREVIATIONS

A, AMP	AMPERE	HVAC	HEATING, VENTILATING AND AIR CONDITIONING
ABV	ABOVE		
AC	AIR CONDITIONING	HWP	HOT-WATER PUMP
ACCU	AIR COOLED CONDENSING UNIT	HYD	HYDRANT
AD	AREA DRAIN	ID	INDIRECT
ADD	ADDENDUM	IN	INCH
AFF	ABOVE FINISHED FLOOR	INV	INVERT
AFV	AIR FACE VELOCITY	KW	KILOWATT
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	KWH	KILOWATT HOUR
AHRI	AIR CONDITIONING, HEATING AND REFRIGERATION INSTITUTE	LB	POUND
		LB/HR	POUNDS PER HOUR
AHU	AIR HANDLING UNIT	LAT	LEAVING AIR TEMPERATURE
ALT	ALTERNATE	LDB	LEAVING DRY-BULB TEMP.
AP	ACCESS PANEL	LVR	LOUVER
APD	AIR PRESSURE DROP	LWB	LEAVING WET-BULB TEMP.
APPROX	APPROXIMATELY	LWT	LEAVING WATER TEMPERATURE
AQ-STAT	AQUASTAT	MAX	MAXIMUM
ARCH	ARCHITECT, ARCHITECTURAL	MBH	ONE THOUSAND BTU PER HOUR
AS	AIR SEPARATOR	MC	MECHANICAL CONTRACTOR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS	MCA	MINIMUM CIRCUIT AMPACITY
		MCF	ONE THOUSAND CUBIC FEET
		MCWB	MEAN COINCIDENCE WET-BULB
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS	MD	MOTORIZED DAMPER
		MECH	MECHANICAL
AUX	AUXILIARY	MFR	MANUFACTURER
B	BOILER	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLDG	BUILDING	MTR	MOTOR
BMS	BUILDING MANAGEMENT SYSTEM	N.C.	NORMALLY CLOSED
BLW	BELOW	N.O.	NORMALLY OPEN
BTU	BRITISH THERMAL UNITS	NC	NOISE CRITERIA
BTUH	BRITISH THERMAL UNITS PER HOUR	NIC	NOT IN CONTRACT
CAP	CAPACITY	NO, #	NUMBER
CUH	CABINET UNIT HEATER	NTS	NOT TO SCALE
CB	CATCH BASIN	OAT	OUTDOOR AIR TEMPERATURE
CFM	CUBIC FEET PER MINUTE	OC	ON CENTER
CH	CHILLER	PC	PLUMBING CONTRACTOR
CHWP	CHILLED-WATER PUMP	PD	PRESSURE DROP
CLG	CEILING	PH	PHASE
CO	CLEAN OUT	PIV	POST INDICATOR VALVE
CONST	CONSTRUCTION	PLBG	PLUMBING
CONT	CONTINUATION OR CONTINUOUS	PRESS	PRESSURE
CONTR	CONTRACTOR	PRI	PRIMARY
CP	CIRCULATING PUMP	PRV	PRESSURE REDUCING VALVE
CT	COOLING TOWER	PRV	POWER ROOF VENTILATOR
CWP	CONDENSER-WATER PUMP	PSI	POUNDS PER SQUARE INCH
D	DEGREE	PSIG	POUNDS PER SQUARE INCH GAUGE
DB	DRY BULB		
DBP	DOMESTIC BOOSTER PUMP	PWR	POWER
DC	DUCT MOUNTED COIL	QTY	QUANTITY
DCP	DOMESTIC CIRCULATING PUMP	R	RISER
DET	DETAIL	RCP	RADIANT CEILING PANEL
DIA	DIAMETER	RD	ROOF DRAIN
DOAS	DEDICATED OUTDOOR AIR SYSTEM	REC	RECESSED
DN	DOWN	RED	REDUCER
DWG	DRAWING	RH	RELATIVE HUMIDITY
EA	EACH	RM	ROOM
EAT	ENTERING AIR TEMPERATURE	RPM	REVOLUTIONS PER MINUTE
EC	ELECTRICAL CONTRACTOR	RTU	PACKAGED ROOFTOP UNIT
EDC	ELECTRIC DUCT COIL	(R)	RELOCATED
EDD	ENTERING DRY-BULB TEMPERATURE	SAT	SUPPLY AIR TEMPERATURE
EF	EXHAUST FAN	SF	SQUARE FOOT
ELEC	ELECTRIC, ELECTRICAL	SD	SMOKE DAMPER
ELEV	ELEVATOR	SHR	SENSIBLE HEAT RATIO
EQUIP	EQUIPMENT	SM	SURFACE MOUNT
EMS	ENERGY MANAGEMENT SYSTEM	SP	STATIC PRESSURE
ERU	ENERGY RECOVERY UNIT	SS	STAINLESS STEEL
ERV	ENERGY RECOVERY VENTILATOR	STD	STANDARD
ET	EXPANSION TANK	SYM	SYMMETRICAL
EWB	ENTERING WET-BULB TEMPERATURE	T	THERMOSTAT
EWC	ELECTRIC WATER COOLER	TD	TEMPERATURE DROP
EWH	ELECTRIC WATER HEATER	TEMP	TEMPERATURE
EWT	ENTERING WATER TEMPERATURE	TF	TRANSFER FAN
EXH	EXHAUST	TYP	TYPICAL
(E)	EXISTING	UG	UNDERGROUND
°F	DEGREES FAHRENHEIT	UH	UNIT HEATER
FCO	FLOOR CLEAN OUT	V	VOLT
FCU	FAN COIL UNIT	VAC	VACUUM
FD	FLOOR DRAIN	VAV	VARIABLE AIR VOLUME
FDC	FIRE DEPARTMENT CONNECTION	VERT	VERTICAL
FP	FIRE PUMP	VTR	VENT THROUGH ROOF
FL	FLOOR	W	WATT
FLA	FULL LOAD AMPS	WH	WATER HEATER
FPM	FEET PER MINUTE	WB	WET BULB
FS	FLOOR SINK	WCO	WALL CLEAN OUT
FT	FOOT/FEET	WH	WALL HYDRANT
FTR	FIN TUBE RADIATION	WPD	WATER PRESSURE DROP
GAL	GALLON	W/O	WITHOUT
GF	GAS-FIRED		
GC	GENERAL CONTRACTOR		
GI	GREASE INTERCEPTOR	∠	ANGLE
GIV	GRAVITY INTAKE VENTILATOR	@	AT
GPM	GALLONS PER MINUTE	Δ	DELTA
GRV	GRAVITY RELIEF VENTILATOR	'	FEET
HB	HOSE BIBB	"	INCHES
HORIZ	HORIZONTAL	#	NUMBER
HP	HORSE POWER	Ø	DIAMETER
HRU	HEAT RECOVERY UNIT	℄	CENTER LINE
HTG	HEATING	°	DEGREE
HTR	HEATER		

HVAC SYMBOLS

- 24"x12" — SQ. DUCT SIZE (WIDTH X HEIGHT)
- 24"/12" — OVAL DUCT SIZE (WIDTH / HEIGHT)
- 18"Ø — ROUND DUCT SIZE (DIAMETER)
- (E) — EXISTING DUCT TO REMAIN
- DUCT TO BE DEMOLISHED
- S/A — SUPPLY AIR
- V/A — VENTILATION AIR
- O/A — OUTDOOR AIR INTAKE
- R/A — RETURN AIR
- T/A — TRANSFER AIR
- L/A — BUILDING RELIEF AIR
- E/A — GENERAL EXHAUST AIR
- KED — KITCHEN EXHAUST DUCT
- LH — LABORATORY HOOD
- ETS — ENVIRONMENTAL TOBACCO SMOKE
- FLUE — FLUE GAS VENT
- C/A — COMBUSTION AIR INTAKE
- RECT. SUPPLY DUCT RISE / DROP
- ROUND SUPPLY DUCT RISE / DROP
- RECT. RETURN DUCT RISE / DROP
- ROUND RETURN DUCT RISE / DROP
- RECT. EXHAUST DUCT RISE / DROP
- ROUND EXHAUST DUCT RISE / DROP

GRILLE, REGISTER, DIFFUSERS

CEILING DIFFUSER — CD3 | 500 | 10"Ø/24x24 | 29 | HI/9/17
- TYPE (SEE SCHEDULE)
- AIRFLOW
- NECK SIZE / MODULE SIZE
- CATALOG THROW PERFORMANCE
- THROW PATTERN
- MAX NC RATING

CEILING RETURN — RG2 | 2000 | 22"x22"/24x24 | 25
- AIRFLOW
- NECK SIZE / MODULE SIZE
- MAX NC RATING

SUPPLY GRILLE — SG5 | 500 | 18"x10" | AFF:9' - 0"
- AIRFLOW
- NOMINAL DUCT SIZE
- MOUNTING ELEVATION (CENTERLINE)

RETURN GRILLE — RG6 | 800 | 16"x16" | AFF:9' - 0"
- AIRFLOW
- NOMINAL DUCT SIZE
- MOUNTING ELEVATION (CENTERLINE)

LINEAR DIFFUSER — LD8 | 120 | 6'0/1s/4'-0"L
- AIRFLOW
- NECK SIZE/ SLOT(S)/ ACTIVE LENGTH

MECHANICAL EQUIPMENT

- RTU-1 / 10.0 ton — UNIT IDENTITY / NOMINAL COOLING CAPACITY
- RTU-1 / 180000 Btu/h / 180 CFH — HEATING CAPACITY / GAS SUPPLY INPUT RATE
- ET-1 / 379 lb — OPERATING WEIGHT
- TF-1 / 500 CFM — DESIGN AIRFLOW RATE
- VAV 1-2 / 3.7 GPM — DESIGN WATER FLOW
- AC-1 / AFF:7' - 0" — BOTTOM OF EQUIPMENT HEIGHT
- (E)AHU-2 — EXISTING TO REMAIN EQUIPMENT
- (R)AHU-3 — EXISTING RELOCATED EQUIPMENT
- EQUIPMENT TO BE DEMOLISHED

DAMPER TYPES

- (B) — MANUAL DAMPER
- (M) — MOTORIZED DAMPER
- (D) — BACKDRAFT DAMPER
- (S) — SMOKE DAMPER
- FIRE DAMPER
- (S) — COMB. FIRE/ SMOKE DAMPER

MECHANICAL PIPING SYMBOLS

- 2" — NOMINAL PIPE SIZE
- ABOVE GROUND PIPING
- BELOW GROUND PIPING
- 1/8" / 12" Slope — PIPE SLOPE (WHEN APPLICABLE)
- (E) — EXISTING PIPE TO REMAIN
- PIPE TO BE DEMOLISHED
- CHWR — CHILLED WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CD — CONDENSATE DRAINAGE
- CWR — CONDENSER WATER RETURN
- CWS — CONDENSER WATER SUPPLY
- GWR — GEOTHERMAL WATER RETURN
- GWS — GEOTHERMAL WATER SUPPLY
- HWR — HEATING WATER RETURN
- HWS — HEATING WATER SUPPLY
- G — NATURAL GAS
- LP — PROPANE GAS
- RL — REFRIGERANT-LIQUID
- RS — REFRIGERANT-SUCTION
- RD — REFRIGERANT-HOT GAS
- STM — STEAM
- CDR — CONDENSATE RETURN
- PIPE RISE / DROP

VALVE TYPES

- 2" SHUTOFF — BALL VALVE
- 2" BAL — BALANCING VALVE
- 2" BFV — BUTTERFLY VALVE
- 2" CHECK — CHECK VALVE
- 2" CHECK — ALTERNATE CHECK VALVE
- 3" CIRC — CIRCUIT SETTER
- 2" GATE — GATE VALVE
- 2" GLOBE — GLOBE VALVE
- 2" LOCK — LOCKED SHIELD VALVE
- 2" PRV — PRESSURE REDUCING VALVE
- 2" QUICK — QUICK OPENING VALVE
- 2" STRAIN — FLUID STRAINER
- 2" M-CNTRL — ELEC. CONTROL VALVE
- 4" 3-WAY CNTRL — 3-WAY ELEC. VALVE
- 1" GAS-CNTRL — EMERGENCY GAS SHUTOFF
- 1" PLUG — PLUG VALVE
- 1" GAS COCK — GAS SHUTOFF COCK
- 1" REG — GAS REGULATOR

MECHANICAL DEVICES

- AHU-1 — UNIT IDENTITY
- TS — TEMPERATURE SENSOR
- TH — TEMP/ HUMIDITY SENSOR
- TC — TEMP/ CO2 SENSOR
- T — THERMOSTAT
- H — HUMIDISTAT
- HS — HUMIDITY SENSOR
- CO2 — CARBON DIOXIDE DETECTOR
- CO — CARBON MONOXIDE DETECTOR
- MS — MANUAL SWITCH
- NO2 — NITROGEN DIOXIDE DETECTOR
- O2 — OXYGEN GAS DETECTOR
- MF-X, PIPING MANIFOLD

INFLOOR PIPING
Zone #1: 1200 SF
Heat: 35 Btu/(h·ft²)

NOTE: ALL OF THE GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

PROJECT NOTES

A. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
B. COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.
C. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
D. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
E. LOCATE DUCTWORK, PIPING, AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS, AND OTHER ELECTRICAL EQUIPMENT.
F. LOCATIONS OF PIPING, DUCTWORK, AND EQUIPMENT AS INDICATED ON THE DRAWING ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
G. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE UL LISTED.
H. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
I. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION, OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
J. ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
K. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
L. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
M. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
N. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
O. THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.
P. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR REQUIRED MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS NOTED IN SPECIFICATIONS.
Q. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
R. PROVIDE A MINIMUM ONE-YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

HVAC NOTES

A. SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE.
B. CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 5'-0" AFF, A MINIMUM OF 8" FROM LIGHT SWITCH.
C. REFER TO HVAC DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.
D. CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY APPLICABLE CODES. CONDENSATE PIPING SHALL BE TYPE "DWV" COPPER.
E. ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE.
F. COORDINATE THE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH NEW AND EXISTING LIGHT FIXTURES.
G. PROVIDE DIFFUSERS AND REGISTERS WITH 4-WAY BLOW PATTERNS UNLESS OTHERWISE NOTED.
H. PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT. COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED.
I. REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL PUNCH.
J. MAINTAIN MINIMUM SEPARATION BETWEEN OUTSIDE AIR INTAKES OR OTHER OPENINGS INTO THE BUILDING AND OTHER ELEMENTS AS REQUIRED AND AS FOLLOWS:
   PLUMBING VENTS AND EXHAUST OUTLETS: 10'-0" SEPARATION
   ENVIRONMENTAL AIR OUTLETS: 3'-0" SEPARATION
K. EXCEPT AS OTHERWISE NOTED, ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED STEEL PER "HVAC DUCT CONSTRUCTION STANDARDS" BY SMACNA, ANSI/SMACNA 006-2020.
L. IN HIGH-HUMIDITY AREAS, INCLUDING SHOWER ROOMS, ALL DUCTWORK SHALL BE CONSTRUCTED OF ALUMINUM.
M. INSULATE ALL SUPPLY AND RETURN AIR DUCTWORK AS REQUIRED BY THE ENERGY CODE.

REMODEL NOTES

A. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
B. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.
C. THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVES AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.
D. WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.
E. REMOVE ALL UNUSED PIPING, DUCTWORK, AND ACCESSORIES.

HVAC SHEET INDEX

M001	HVAC TITLE SHEET
M100	OVERALL HVAC PLAN
M101	HVAC PLAN - AREA A
M102	HVAC PLAN - AREA B
M103	HVAC PLAN - AREA C
M104	HVAC PLAN - AREA D
M105	HVAC PLAN - VEHICLE COLD STORAGE & BRINE SHED
M120	ROOF MECHANICAL PLAN
M200	OVERALL MECHANICAL PIPING PLAN
M201	MECHANICAL PIPING PLAN - AREA A
M203	MECHANICAL PIPING PLAN - AREA C
M204	MECHANICAL PIPING PLAN - AREA D
M501	HVAC DETAILS
M601	HVAC SCHEDULES
M602	HVAC SCHEDULES
M901	GAS RISER DIAGRAM

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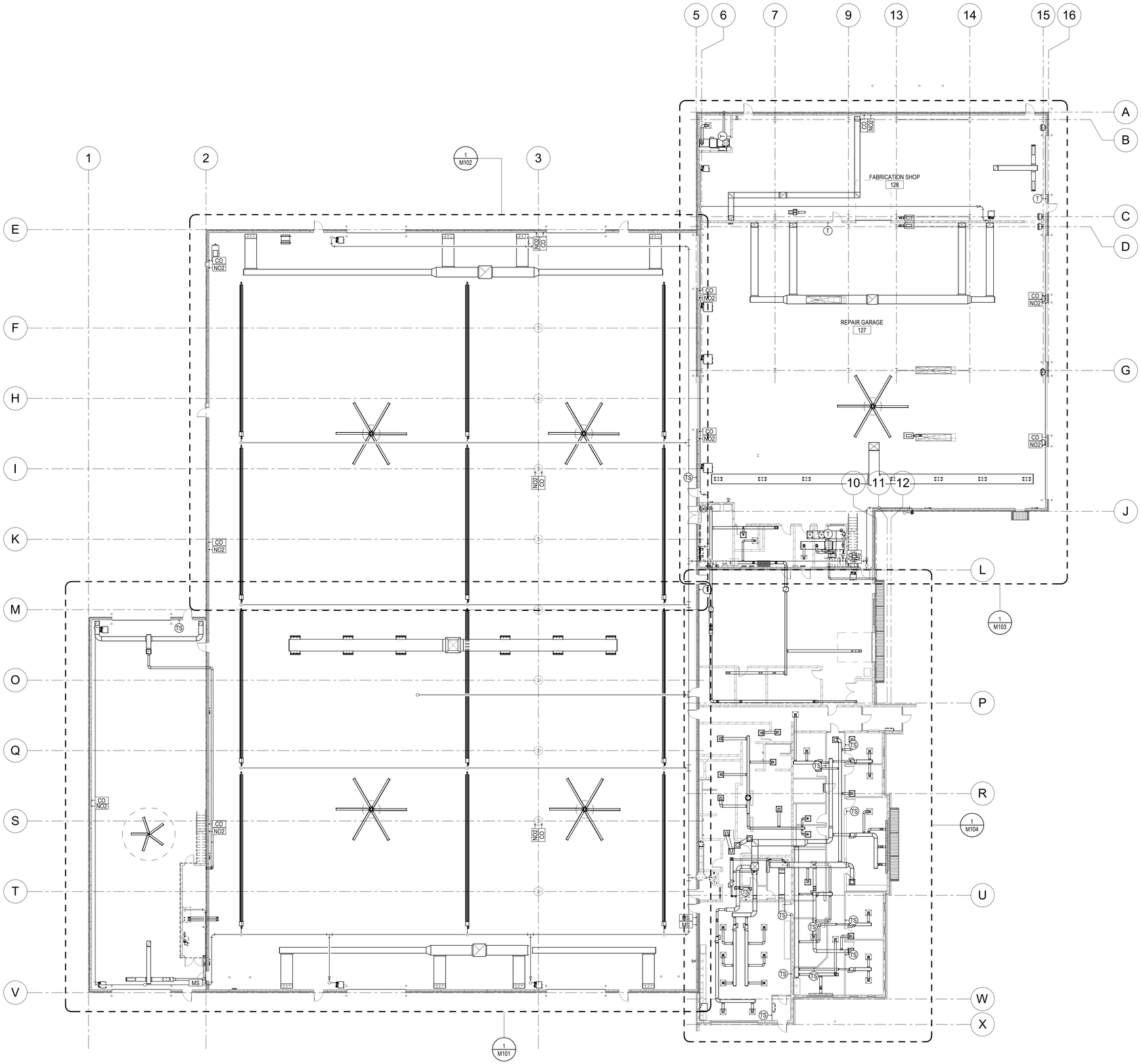
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BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
HVAC TITLE SHEET

SHEET
M001



1 OVERALL HVAC PLAN

1/16" = 1'-0"

HVAC SHEET NOTES

A. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.
B. INSTALL, SUPPORT, & BRACE NEW DUCTWORK AND ACCESSORIES PER SMACNA GUIDELINES.
C. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, ETC.
D. ALL NEW DUCT ELBOWS SHALL BE RADIUS TYPE. WHERE NECESSARY, CONTRACTOR MAY SUBSTITUTE MITERED ELBOWS WITH TURNING VANES.
E. PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED.
F. INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP EQUIPMENT SHALL BE LOCATED NO CLOSER THAN 10'-0" FROM THE ROOF EDGE.
G. ALL PRIMARY CONDENSATE DRAIN PIPING SHALL BE INSULATED TO A MINIMUM THICKNESS OF 1/2" AND SHALL INCLUDE A VAPOR RETARDANT OUTSIDE THE INSULATION. SEAL ALL JOINTS AND PENETRATIONS.
H. COORDINATE ALL EXTERIOR PENETRATIONS INCLUDING ROOF PENETRATIONS WITH OTHER TRADES TO PROVIDE A COMPLETE AND FULLY WEATHER-PROOF INSTALLATION.
I. ALL TRANSFER DUCTWORK SHALL BE INTERNALLY LINED WITH MINIMUM 1/2" ACOUSTIC LINING.
J. CONTRACTOR SHALL ENGAGE A TESTING AND BALANCE FIRM TO PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE" AND PROVIDE TWO COPIES OF THE CERTIFIED TAB REPORTS.
K. THIS DRAWING IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATION OR EXTENT OF THE WORK. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF THE WORK.
L. THIS DRAWING IS BASED ON VISUALLY OBSERVABLE EXISTING CONDITIONS AS OF THE TIME OF DESIGN. CONTRACTOR SHALL BE RESPONSIBLE TO FULLY VERIFY ALL EXISTING CONDITIONS, COMPONENTS, ETC. PRIOR TO THE START OF THE WORK. ANY DEVIATION FROM THIS DRAWING IN KIND, OR IN LOCATION EXCEEDING 1'-0", SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
M. PROVIDE DUCT INSULATION FOR ALL NEW DUCTWORK AS REQUIRED BY LOCAL ENERGY CODE. ALL EXPOSED DUCTWORK REQUIRING INSULATION AT ANY R-VALUE SHALL BE INTERNALLY LINED UNLESS OTHERWISE NOTED. INSULATE ALL EXTERIOR DUCTWORK TO MINIMUM R-8 INSULATION VALUE.
N. ALL REFRIGERANT PIPING SHALL BE INSULATED PER LOCAL ENERGY CODE AND MANUFACTURER'S REQUIREMENTS.

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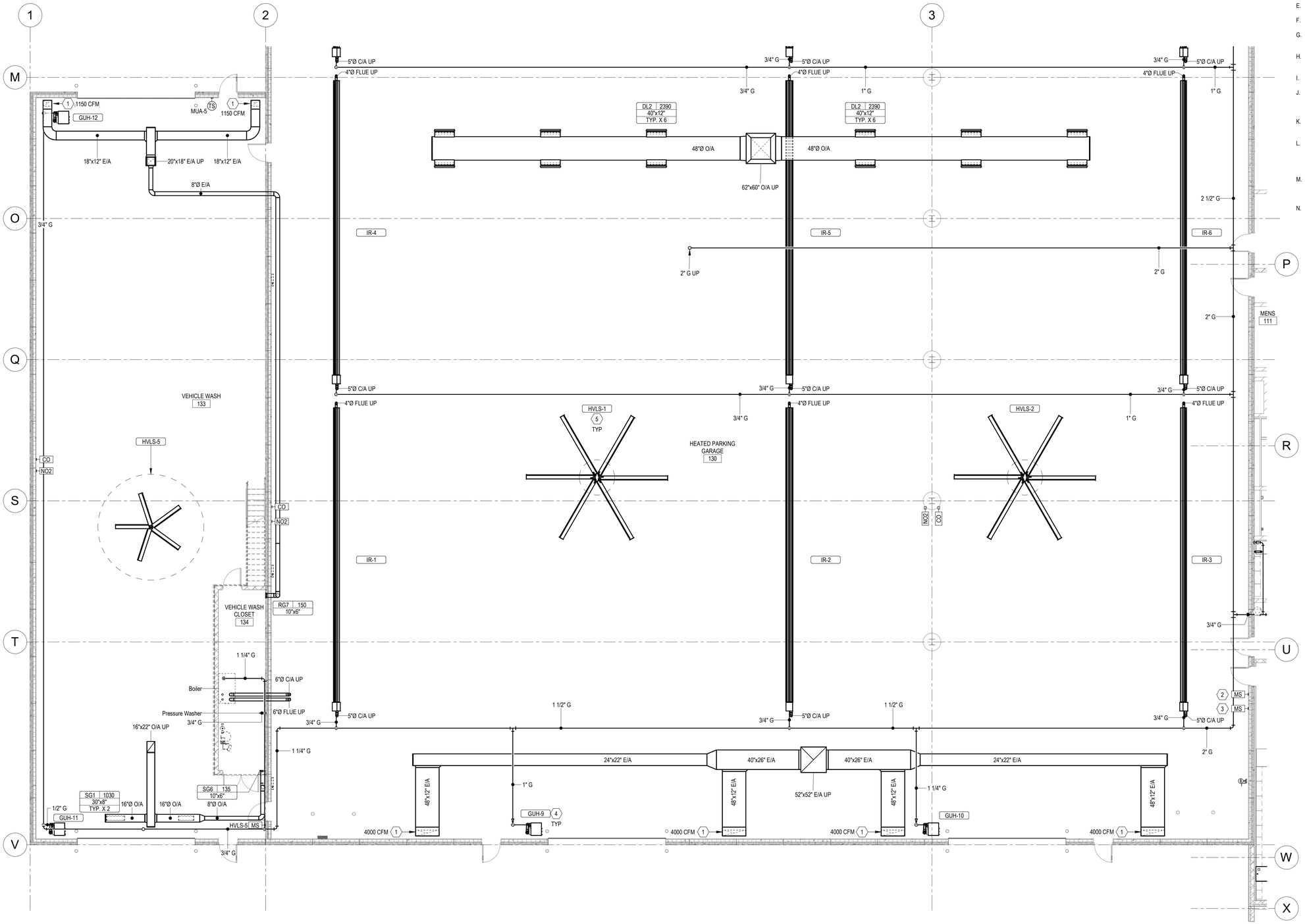
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
OVERALL HVAC PLAN

SHEET
M100



1 FIRST FLOOR HVAC PLAN - AREA A

1/8" = 1'-0"

HVAC SHEET NOTES

A. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.
B. INSTALL, SUPPORT, & BRACE NEW DUCTWORK AND ACCESSORIES PER SMACNA GUIDELINES.
C. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, ETC.
D. ALL NEW DUCT ELBOWS SHALL BE RADIUS TYPE. WHERE NECESSARY, CONTRACTOR MAY SUBSTITUTE MITERED ELBOWS WITH TURNING VANES.
E. PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED.
F. INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP EQUIPMENT SHALL BE LOCATED NO CLOSER THAN 10'-0" FROM THE ROOF EDGE.
G. ALL PRIMARY CONDENSATE DRAIN PIPING SHALL BE INSULATED TO A MINIMUM THICKNESS OF 1/2" AND SHALL INCLUDE A VAPOR RETARDANT OUTSIDE THE INSULATION. SEAL ALL JOINTS AND PENETRATIONS.
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KEYNOTES

1 DROP DUCT TO 12" AFF. PROVIDE BALANCING DAMPER AND BALANCE TO CFM INDICATED ON PLANS. COVER OPENING WITH 1/2"x1/2" WIRE MESH SCREEN.
2 ARRAY OF 12 INDIVIDUAL MANUAL SWITCHES. ONE SWITCH PER IR HEATER (IR-1 THRU IR-12). PROVIDE TIMER SWITCH WITH MANUAL OVERRIDE SETTING.
3 ARRAY OF 4 INDIVIDUAL MANUAL SWITCHES. ONE SWITCH PER HVLS FAN (HS-1 THRU HS-4).
4 CONCENTRIC VENT/FLUE THRU ROOF. INSTALL PER MANUFACTURER'S GUIDELINES.
5 INSTALL HVLS FANS TO STRUCTURE WITH MOUNTING KIT PER SCHEDULE. VERIFY FINAL ELEVATION BETWEEN BOTTOM OF FAN BLADES AND THE FLOOR AND COORDINATE WITH ELECTRICAL FOR LIGHTING CLEARANCES FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS TO MITIGATE STROBE EFFECT.

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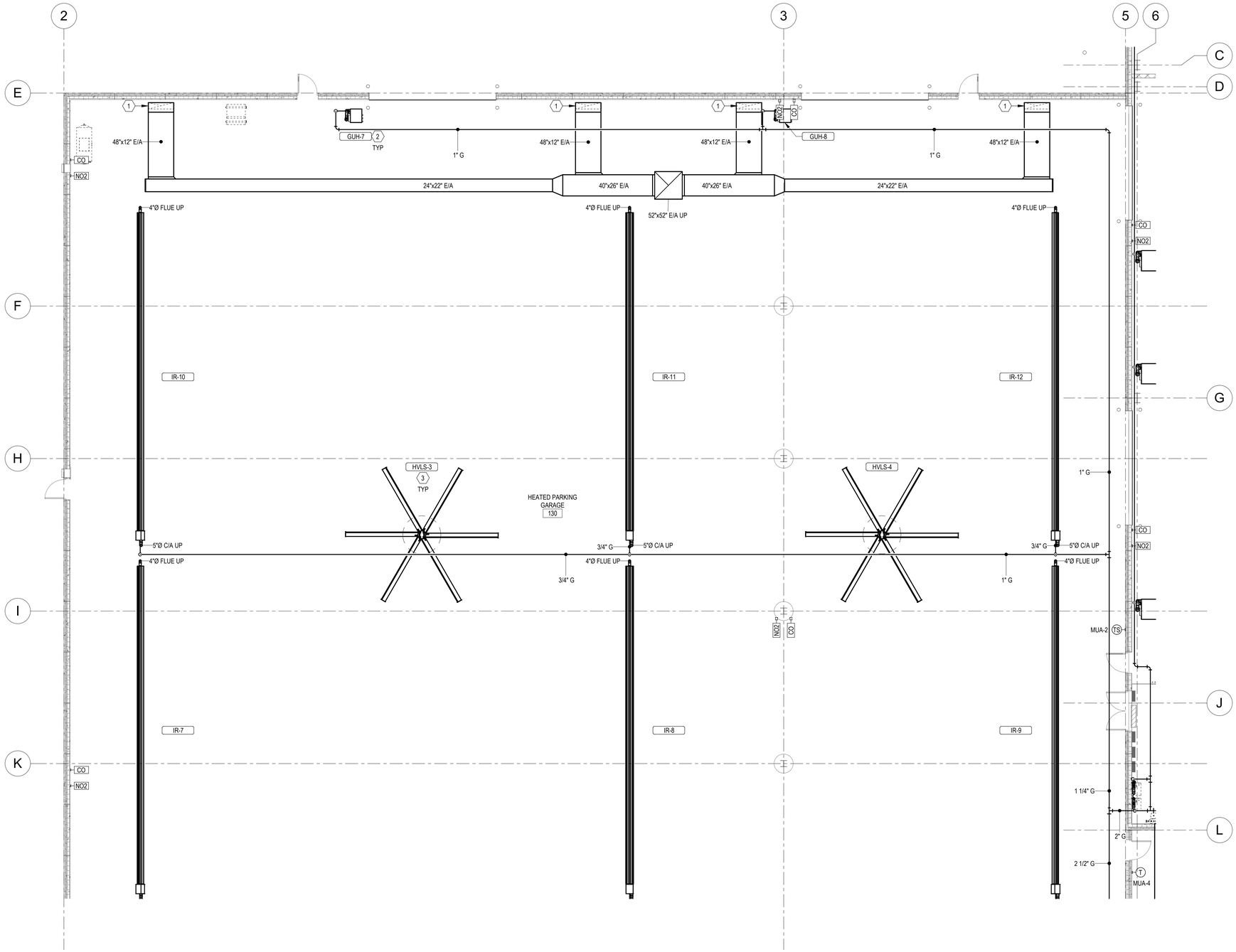
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BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
HVAC PLAN - AREA A

SHEET
M101



1 FIRST FLOOR HVAC PLAN - AREA B

1/8" = 1'-0"

HVAC SHEET NOTES

A. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.
B. INSTALL, SUPPORT, & BRACE NEW DUCTWORK AND ACCESSORIES PER SMACNA GUIDELINES.
C. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, ETC.
D. ALL NEW DUCT ELBOWS SHALL BE RADIUS TYPE. WHERE NECESSARY, CONTRACTOR MAY SUBSTITUTE MITERED ELBOWS WITH TURNING VANES.
E. PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED.
F. INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP EQUIPMENT SHALL BE LOCATED NO CLOSER THAN 10'-0" FROM THE ROOF EDGE.
G. ALL PRIMARY CONDENSATE DRAIN PIPING SHALL BE INSULATED TO A MINIMUM THICKNESS OF 1/2" AND SHALL INCLUDE A VAPOR RETARDANT OUTSIDE THE INSULATION. SEAL ALL JOINTS AND PENETRATIONS.
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KEYNOTES

1 DROP DUCT TO 12" AFF. COVER OPENING WITH 1/2"x1/2" WIRE MESH SCREEN.
2 CONCENTRIC VENT/FLUE THRU ROOF. INSTALL PER MANUFACTURER'S GUIDELINES.
3 INSTALL HVLS FANS TO STRUCTURE WITH MOUNTING KIT PER SCHEDULE. VERIFY FINAL ELEVATION BETWEEN BOTTOM OF FAN BLADES AND THE FLOOR AND COORDINATE WITH ELECTRICAL FOR LIGHTING CLEARANCES FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS TO MITIGATE STROBE EFFECT.

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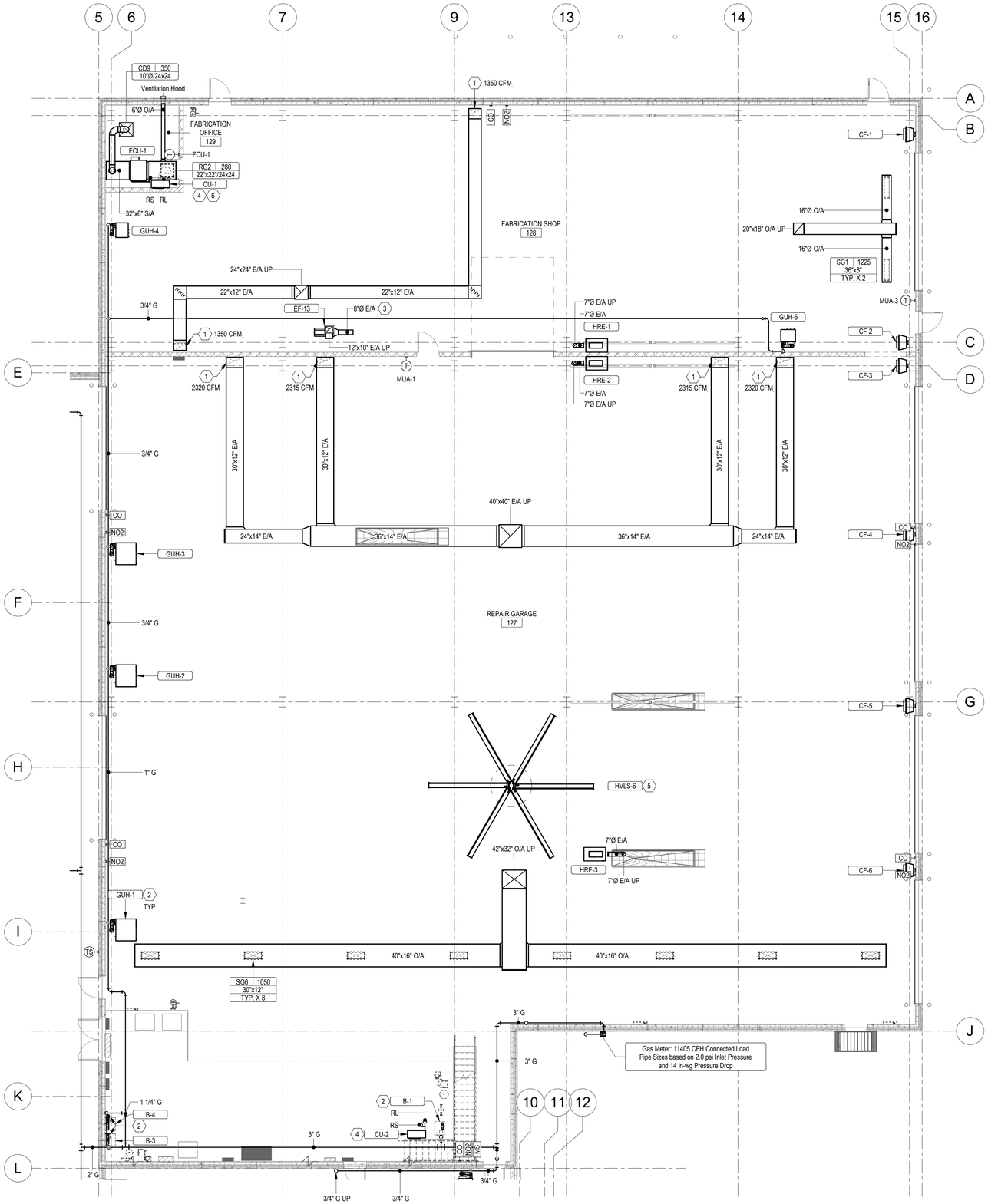
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
HVAC PLAN - AREA B

SHEET
M102



1 FIRST FLOOR HVAC PLAN - AREA C

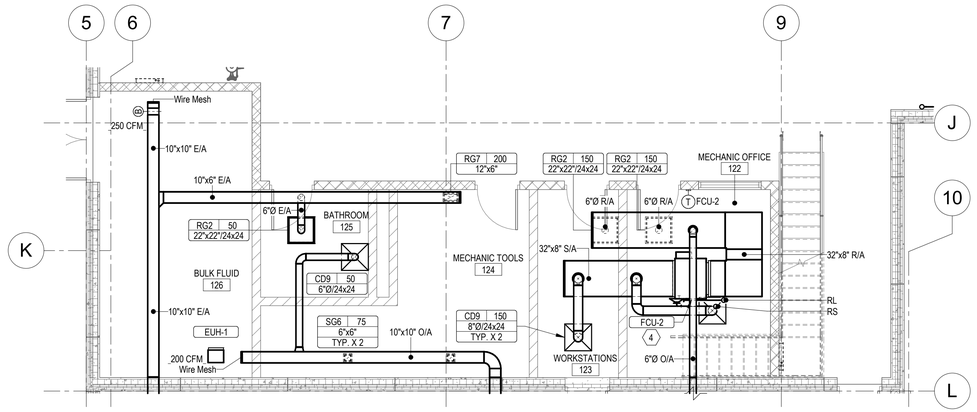
1/8" = 1'-0"

HVAC SHEET NOTES

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E. PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED.
F. INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP EQUIPMENT SHALL BE LOCATED NO CLOSER THAN 10'-0" FROM THE ROOF EDGE.
G. ALL PRIMARY CONDENSATE DRAIN PIPING SHALL BE INSULATED TO A MINIMUM THICKNESS OF 1/2" AND SHALL INCLUDE A VAPOR RETARDANT OUTSIDE THE INSULATION. SEAL ALL JOINTS AND PENETRATIONS.
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KEYNOTES

1 DROP DUCT TO 12" AFF. PROVIDE BALANCING DAMPER AND BALANCE TO CFM INDICATED ON PLANS. COVER OPENING WITH 1/2"x1/2" WIRE MESH SCREEN.
2 CONCENTRIC VENT/FLUE THRU ROOF. INSTALL PER MANUFACTURER'S GUIDELINES.
3 8" HOSE CONNECTION FOR WELDING EXTRACTION ARM.
4 ROUTE REFRIGERANT PIPING FROM INDOOR UNIT TO OUTDOOR UNIT PER MANUFACTURER GUIDELINES.
5 INSTALL HVLS FANS TO STRUCTURE WITH MOUNTING KIT PER SCHEDULE. VERIFY FINAL ELEVATION BETWEEN BOTTOM OF FAN BLADES AND THE FLOOR AND COORDINATE WITH ELECTRICAL FOR LIGHTING CLEARANCES FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS TO MITIGATE STROBE EFFECT.
6 MOUNT CONDENSING UNIT TO ABOVE FABRICATION OFFICE WITHIN FABRICATION SHOP AS SHOWN.



2 BELOW MEZZANINE HVAC PLAN - AREA C

3/16" = 1'-0"

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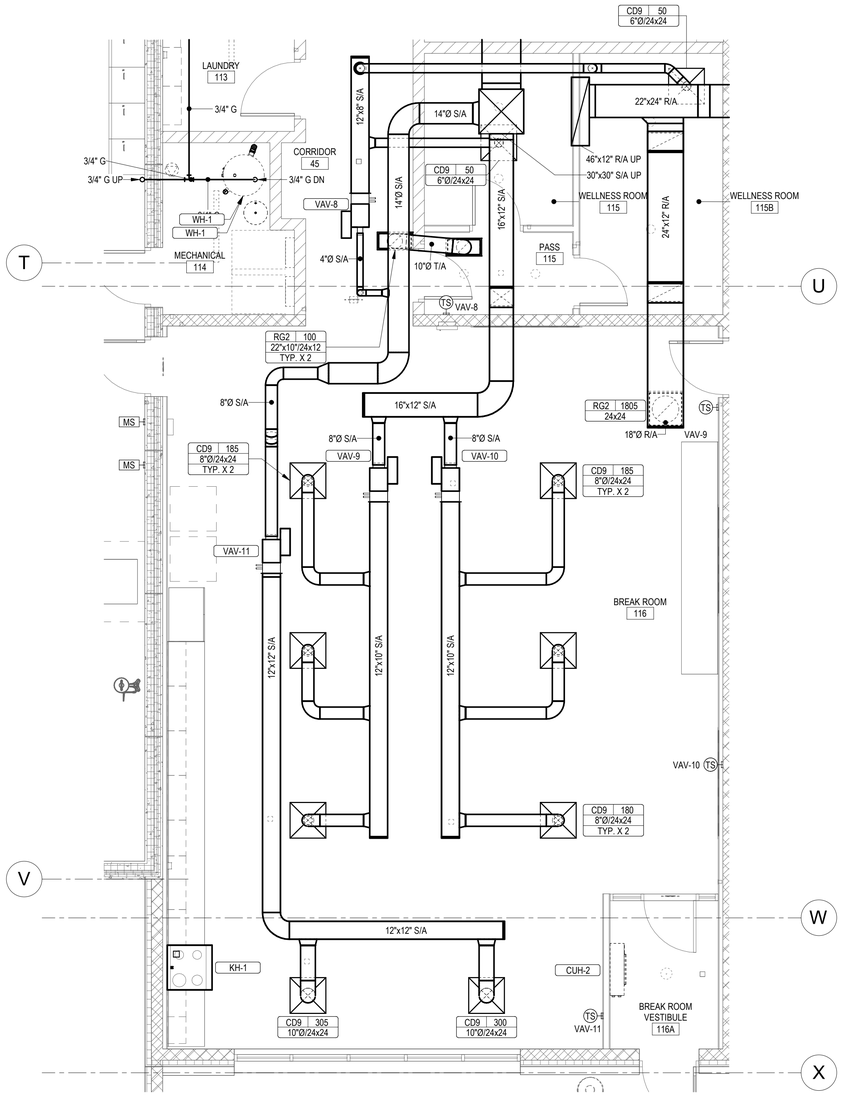
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50923

DATE
06.22.2026

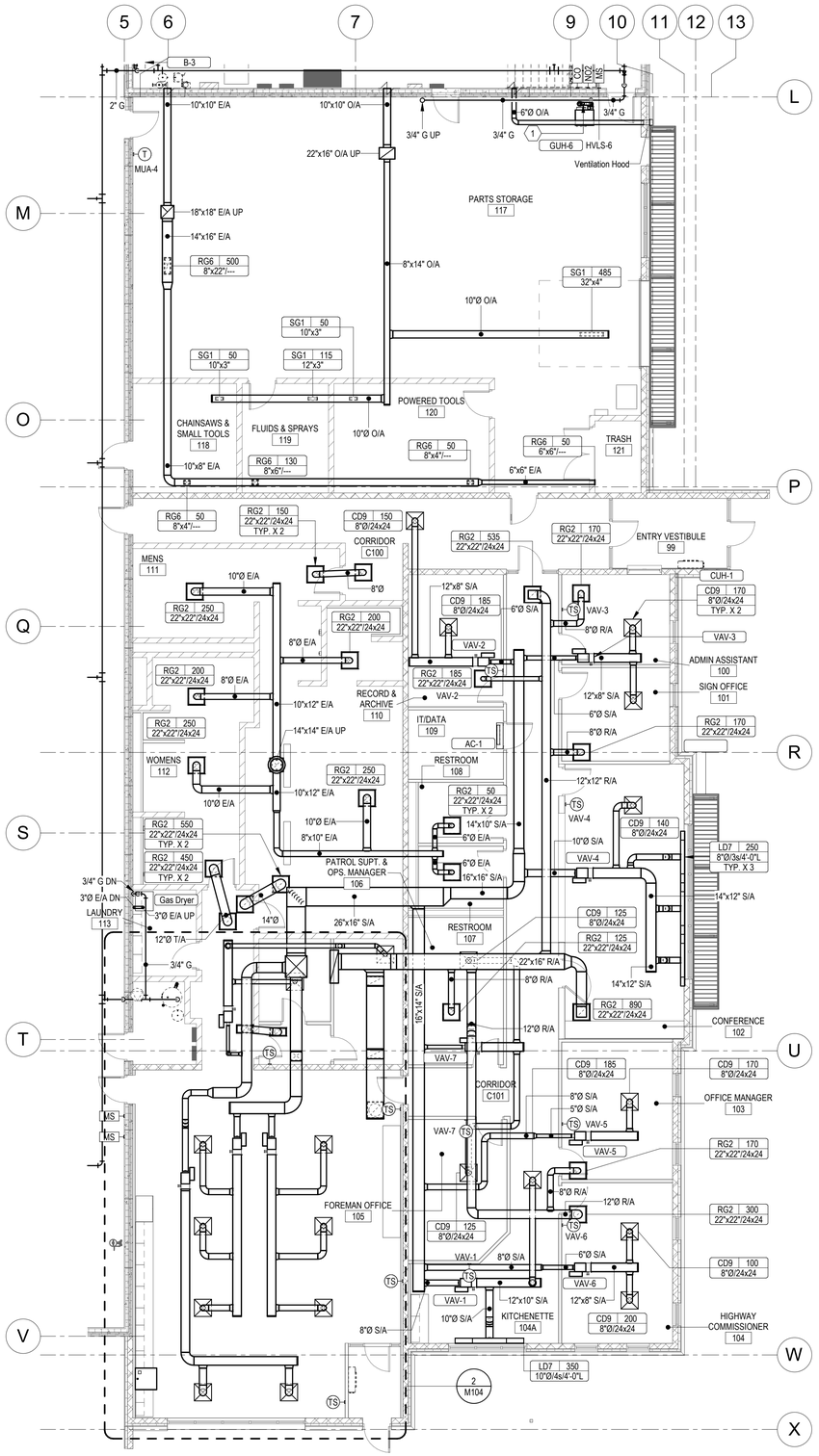
SHEET TITLE
HVAC PLAN - AREA C

SHEET
M103



2 FIRST FLOOR HVAC PLAN - AREA D - Callout 1

1/4" = 1'-0"



1 FIRST FLOOR HVAC PLAN - AREA D

1/8" = 1'-0"

HVAC SHEET NOTES

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KEYNOTES

1 CONCENTRIC VENT/FLUE THRU ROOF. INSTALL PER MANUFACTURER'S GUIDELINES.

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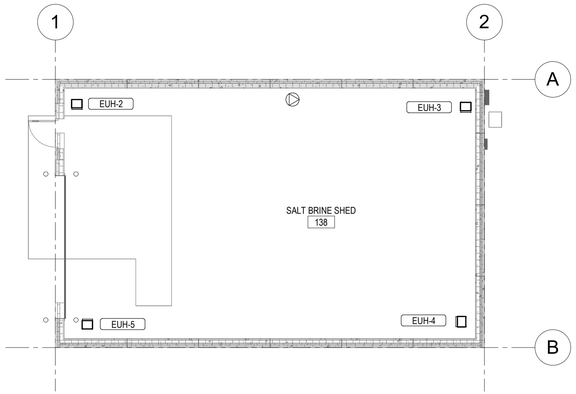
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BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
HVAC PLAN - AREA D

SHEET
M104



2 HVAC PLAN - SALT BRINE SHED

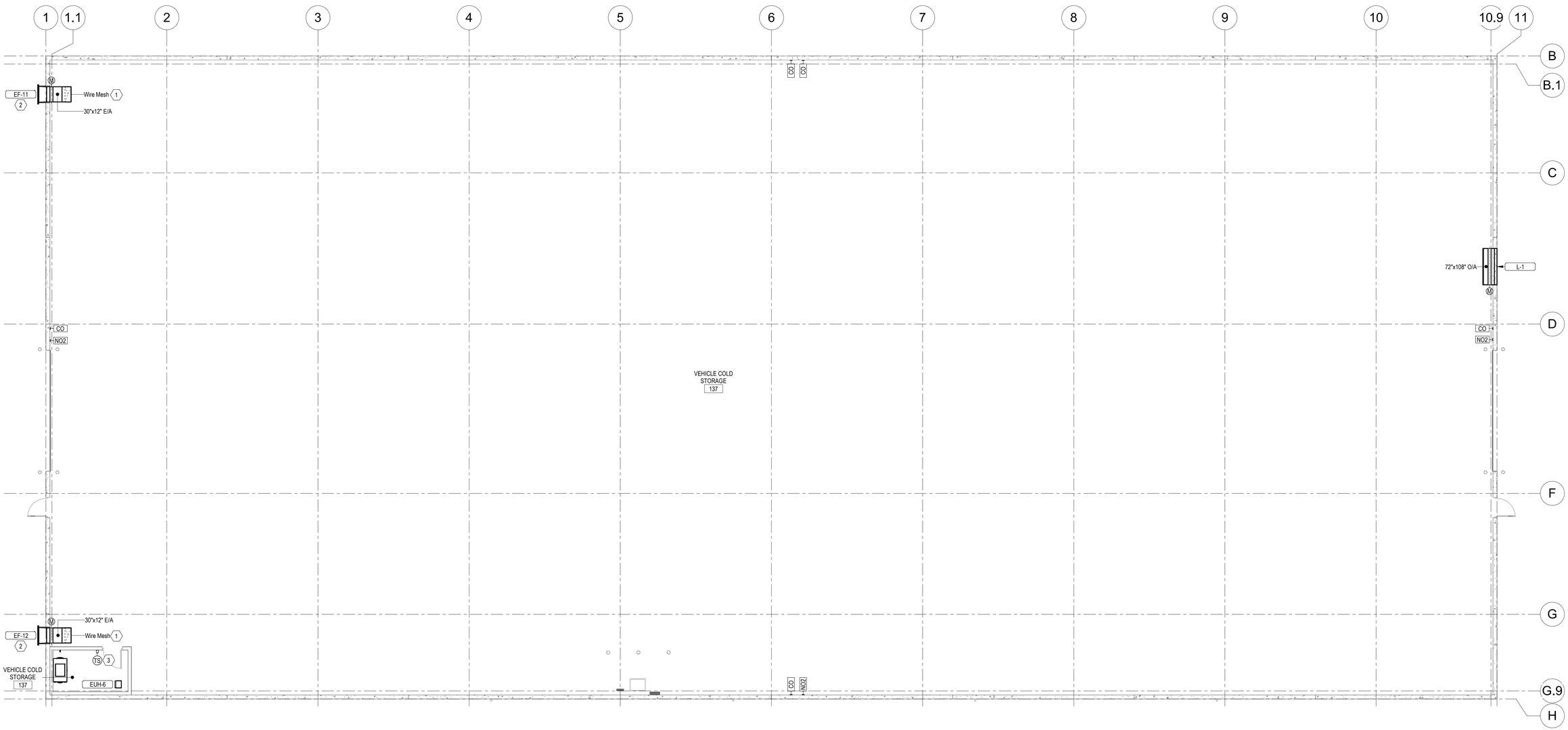
1/8" = 1'-0"

KEYNOTES

1. DROP DUCT TO 12" AFF. COVER OPENING WITH 1/2"x1/2" WIRE MESH SCREEN.
2. MOUNT SIDEWALL EXHAUST FAN FLUSH TO THE INTERIOR WALL AND PROVIDE WALL HOUSING PER MANUFACTURER INSTALLATION GUIDELINES.
3. PROVIDE TEMPERATURE SENSOR FOR ROOM MONITORING BY BAS. ALARM SHALL BE SENT WHEN ROOM TEMPERATURE DROPS BELOW 50-DEG F.

HVAC SHEET NOTES

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J. CONTRACTOR SHALL ENGAGE A TESTING AND BALANCE FIRM TO PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE" AND PROVIDE TWO COPIES OF THE CERTIFIED TAB REPORTS.
K. THIS DRAWING IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATION OR EXTENT OF THE WORK. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF THE WORK.
L. THIS DRAWING IS BASED ON VISUALLY OBSERVABLE EXISTING CONDITIONS AS OF THE TIME OF DESIGN. CONTRACTOR SHALL BE RESPONSIBLE TO FULLY VERIFY ALL EXISTING CONDITIONS, COMPONENTS, ETC. PRIOR TO THE START OF THE WORK. ANY DEVIATION FROM THIS DRAWING IN KIND, OR IN LOCATION EXCEEDING 1'-0", SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
M. PROVIDE DUCT INSULATION FOR ALL NEW DUCTWORK AS REQUIRED BY LOCAL ENERGY CODE. ALL EXPOSED DUCTWORK REQUIRING INSULATION AT ANY R-VALUE SHALL BE INTERNALLY LINED UNLESS OTHERWISE NOTED. INSULATE ALL EXTERIOR DUCTWORK TO MINIMUM R-8 INSULATION VALUE.
N. ALL REFRIGERANT PIPING SHALL BE INSULATED PER LOCAL ENERGY CODE AND MANUFACTURER'S REQUIREMENTS.



1 HVAC PLAN - VEHICLE COLD STORAGE

1/8" = 1'-0"

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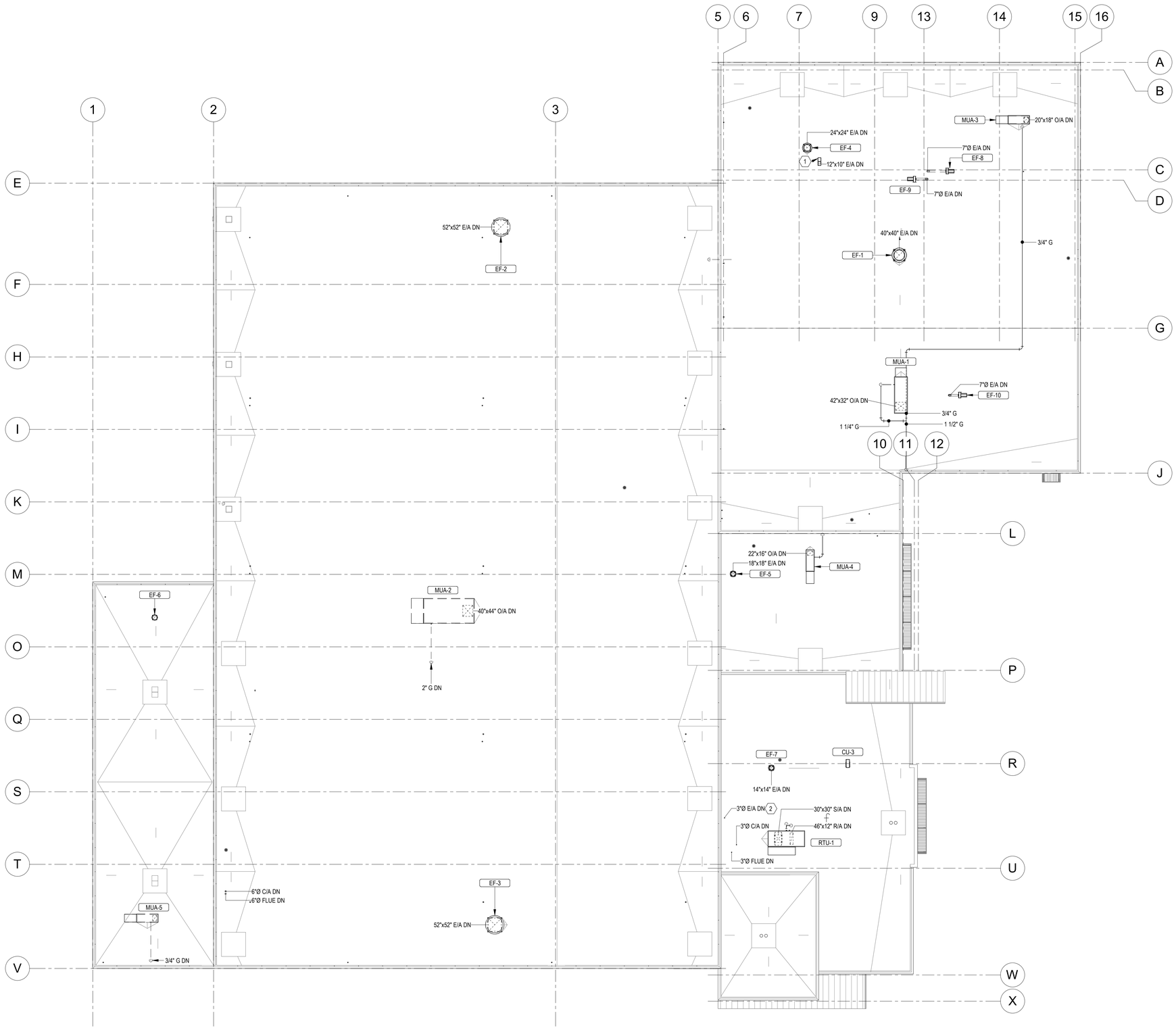
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
HVAC PLAN - VEHICLE COLD STORAGE & BRINE SHED

SHEET
M105



1 ROOF MECHANICAL PLAN
1/16" = 1'-0"

HVAC SHEET NOTES

A. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.
B. INSTALL, SUPPORT, & BRACE NEW DUCTWORK AND ACCESSORIES PER SMACNA GUIDELINES.
C. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, ETC.
D. ALL NEW DUCT ELBOWS SHALL BE RADIUS TYPE. WHERE NECESSARY, CONTRACTOR MAY SUBSTITUTE MITERED ELBOWS WITH TURNING VANES.
E. PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED.
F. INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP EQUIPMENT SHALL BE LOCATED NO CLOSER THAN 10'-0" FROM THE ROOF EDGE.
G. ALL PRIMARY CONDENSATE DRAIN PIPING SHALL BE INSULATED TO A MINIMUM THICKNESS OF 1/2" AND SHALL INCLUDE A VAPOR RETARDANT OUTSIDE THE INSULATION. SEAL ALL JOINTS AND PENETRATIONS.
H. COORDINATE ALL EXTERIOR PENETRATIONS INCLUDING ROOF PENETRATIONS WITH OTHER TRADES TO PROVIDE A COMPLETE AND FULLY WEATHER-PROOF INSTALLATION.
I. ALL TRANSFER DUCTWORK SHALL BE INTERNALLY LINED WITH MINIMUM 1/2" ACOUSTIC LINING.
J. CONTRACTOR SHALL ENGAGE A TESTING AND BALANCE FIRM TO PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE" AND PROVIDE TWO COPIES OF THE CERTIFIED TAB REPORTS.
K. THIS DRAWING IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATION OR EXTENT OF THE WORK. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF THE WORK.
L. THIS DRAWING IS BASED ON VISUALLY OBSERVABLE EXISTING CONDITIONS AS OF THE TIME OF DESIGN. CONTRACTOR SHALL BE RESPONSIBLE TO FULLY VERIFY ALL EXISTING CONDITIONS, COMPONENTS, ETC. PRIOR TO THE START OF THE WORK. ANY DEVIATION FROM THIS DRAWING IN KIND, OR IN LOCATION EXCEEDING 1'-0", SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
M. PROVIDE DUCT INSULATION FOR ALL NEW DUCTWORK AS REQUIRED BY LOCAL ENERGY CODE. ALL EXPOSED DUCTWORK REQUIRING INSULATION AT ANY R-VALUE SHALL BE INTERNALLY LINED UNLESS OTHERWISE NOTED. INSULATE ALL EXTERIOR DUCTWORK TO MINIMUM R-8 INSULATION VALUE.
N. ALL REFRIGERANT PIPING SHALL BE INSULATED PER LOCAL ENERGY CODE AND MANUFACTURER'S REQUIREMENTS.

KEYNOTES

1 PROVIDE GOOSENECK FOR EXHAUST FAN DISCHARGE.
2 GAS DRYER FLUE, TERMINATE AT ROOF WITH MANFUACTURERS RECOMMENDED TERMINATION KIT.

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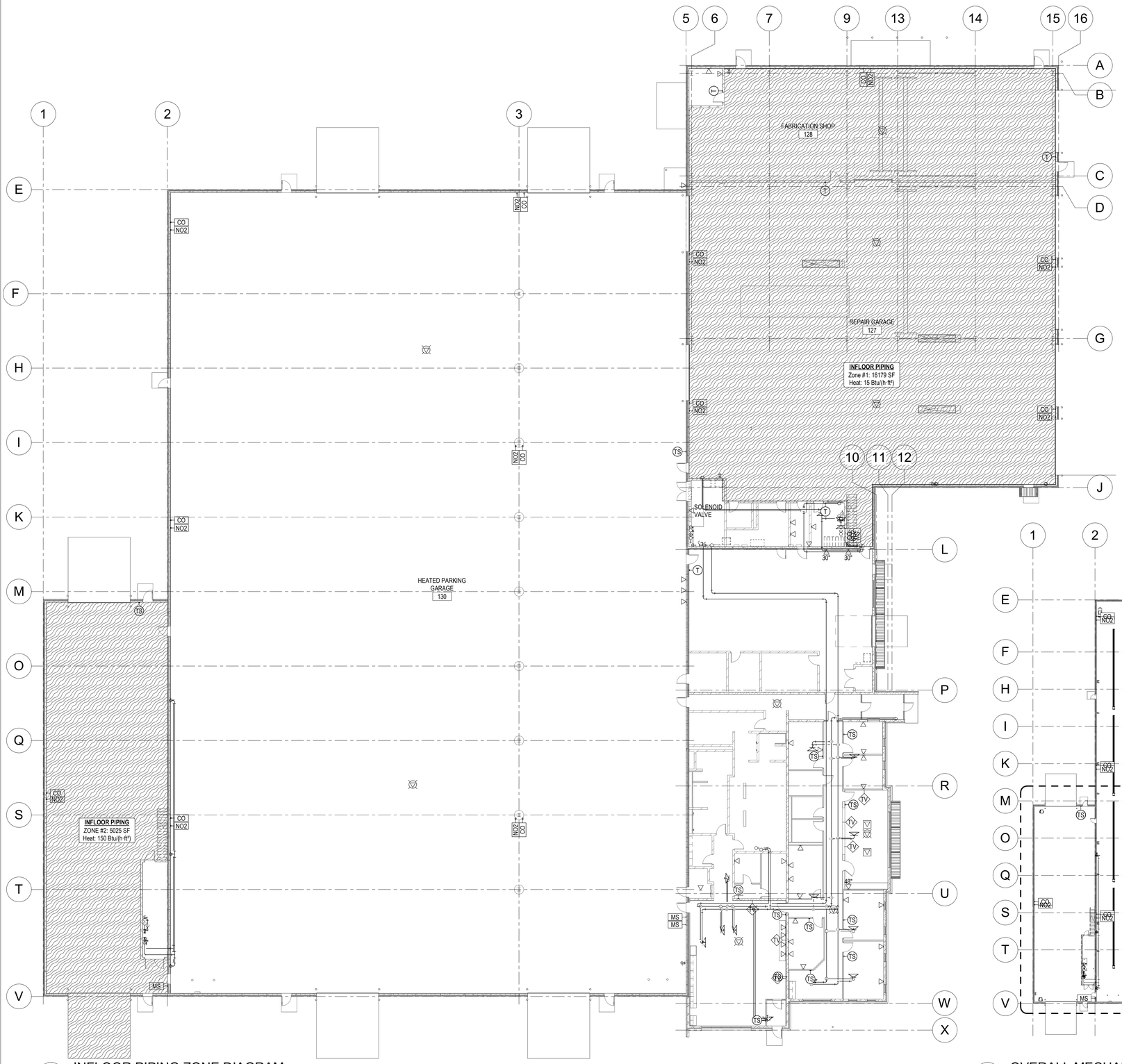
DATE
06.22.2026

SHEET TITLE
ROOF MECHANICAL PLAN

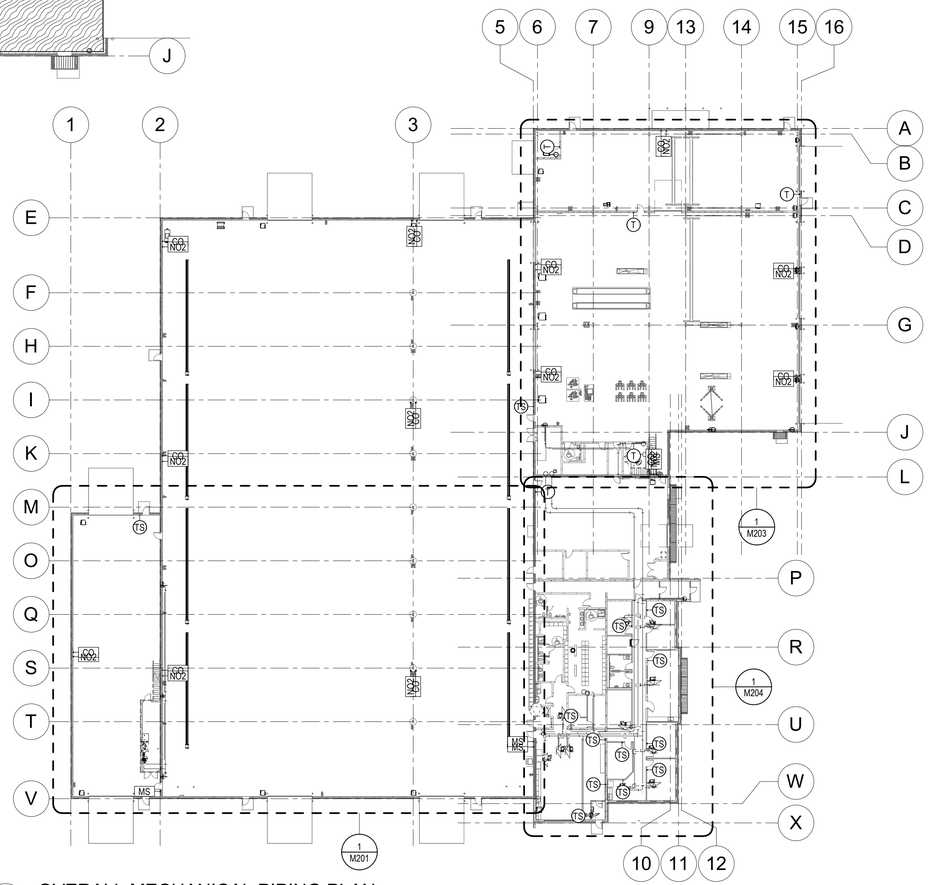
SHEET
M120

PIPING SHEET NOTES

A. SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE.
B. REFER TO HVAC DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.
C. CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER.
D. ADJUST PIPING SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
E. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
F. LOCATE PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS, AND OTHER ELECTRICAL EQUIPMENT.



1 INFLOOR PIPING ZONE DIAGRAM
1/16" = 1'-0"



2 OVERALL MECHANICAL PIPING PLAN
1/32" = 1'-0"

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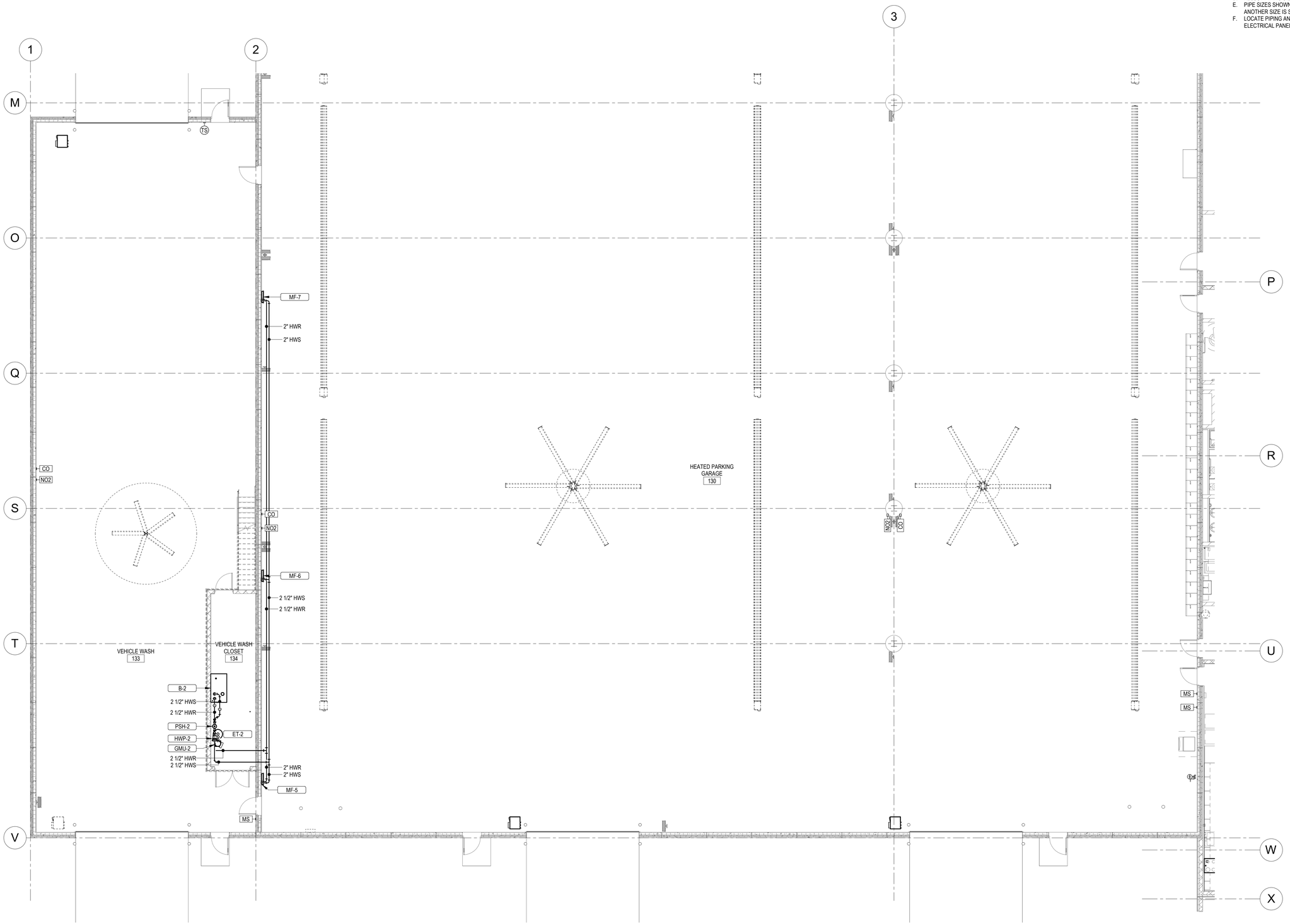
DATE
06.22.2026

SHEET TITLE
OVERALL MECHANICAL PIPING PLAN

SHEET
M200

PIPING SHEET NOTES

A. SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE.
B. REFER TO HVAC DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.
C. CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER.
D. ADJUST PIPING SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
E. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
F. LOCATE PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS, AND OTHER ELECTRICAL EQUIPMENT.



1 FIRST FLOOR MECHANICAL PIPING PLAN - AREA A
1/8" = 1'-0"

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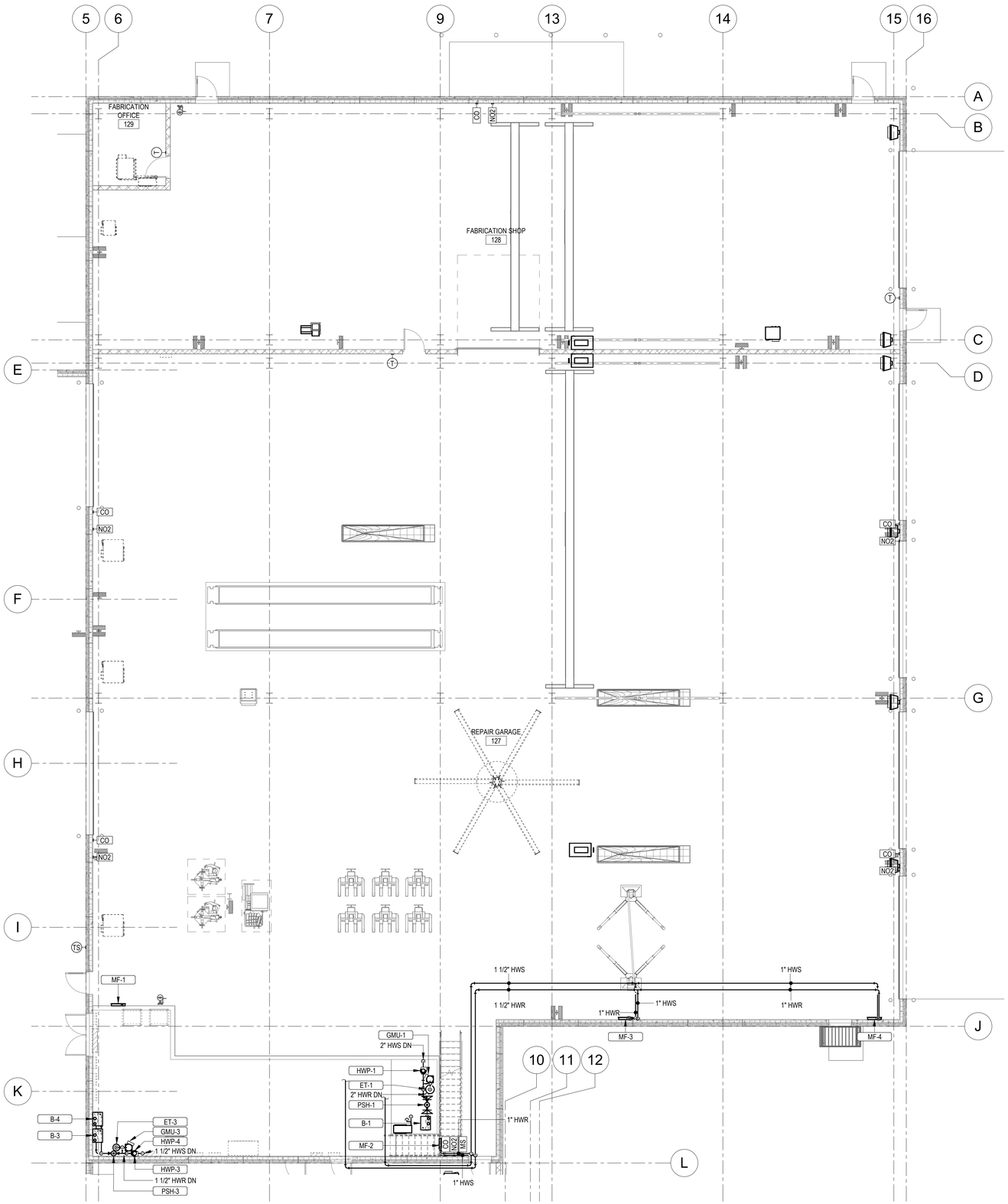
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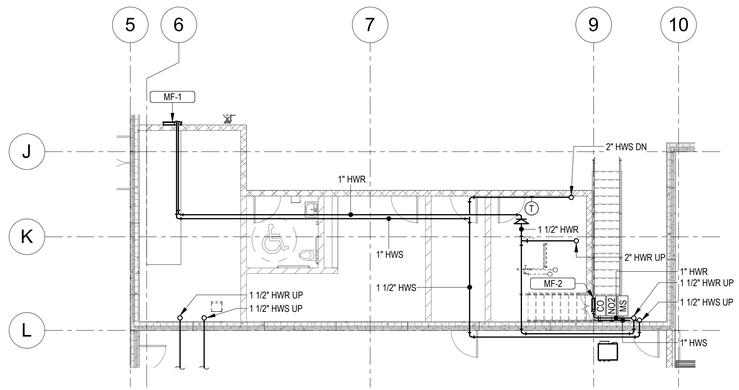
SHEET TITLE
MECHANICAL PIPING PLAN - AREA A

SHEET
M201



1 FIRST FLOOR MECHANICAL PIPING PLAN - AREA C

1/8" = 1'-0"



2 MEZZANINE PIPING PLAN

1/8" = 1'-0"

PIPING SHEET NOTES

A. SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE.
B. REFER TO HVAC DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.
C. CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER.
D. ADJUST PIPING SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
E. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
F. LOCATE PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS, AND OTHER ELECTRICAL EQUIPMENT.

KEYNOTES

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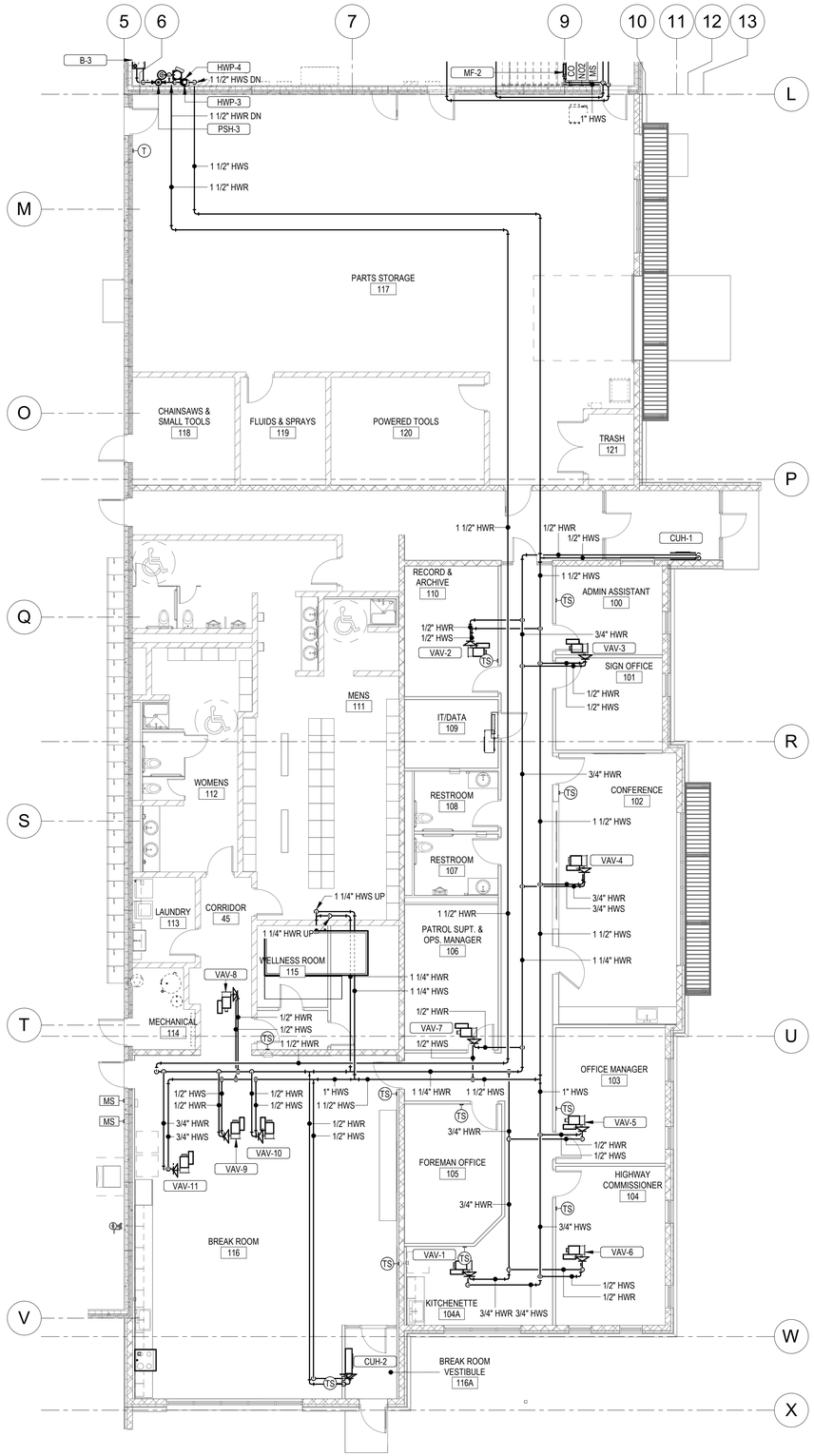
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50923

DATE
06.22.2026

SHEET TITLE
MECHANICAL PIPING PLAN - AREA C

SHEET
M203



1 FIRST FLOOR MECHANICAL PIPING PLAN - AREA D

1/8" = 1'-0"

PIPING SHEET NOTES

A. SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE.
B. REFER TO HVAC DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.
C. CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER.
D. ADJUST PIPING SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
E. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
F. LOCATE PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS, AND OTHER ELECTRICAL EQUIPMENT.

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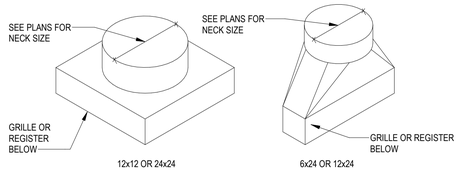
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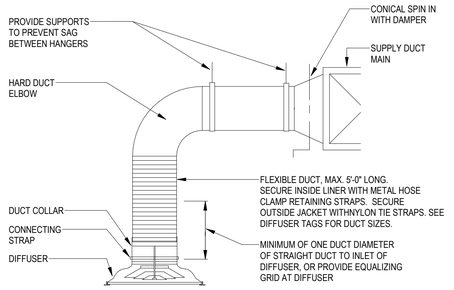
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MECHANICAL PIPING PLAN - AREA D

SHEET
M204



1 GRILLE & REGISTER BOOT DETAIL

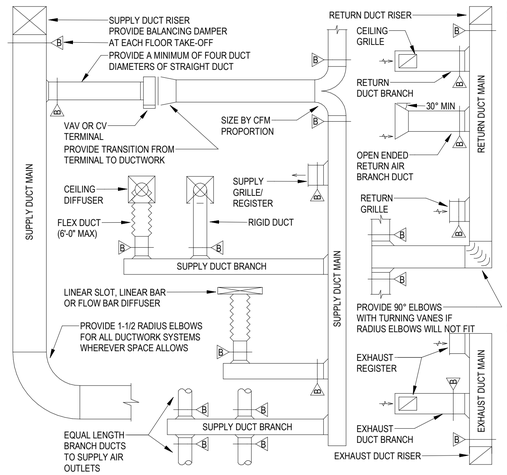
NOT TO SCALE



2 DIFFUSER FLEXIBLE DUCT CONNECTION

NOT TO SCALE

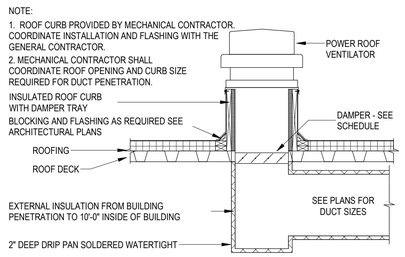
NOTES:
1. REFER TO HVAC FLOOR PLANS FOR DUCT SIZES
2. REFER TO SCHEDULES FOR GRILLES, REGISTERS, DIFFUSERS AND TERMINAL SIZES AND TYPES
3. PROVIDE A MANUAL TYPE BALANCING DAMPER FOR EACH SUPPLY OUTLET AND RETURN INLET
4. ALL DUCT RUNOUTS TO DIFFUSERS SHALL BE THE SAME SIZE AS DIFFUSER NECK SIZE, UNLESS OTHERWISE NOTED
5. FLEX DUCT WILL NOT BE ALLOWED ON RETURN OR EXHAUST DUCTWORK SYSTEMS
6. PROVIDE 12" AIR CUSHION AT THE END OF EACH SUPPLY MAIN AND BRANCH DUCT
7. INDIVIDUAL BRANCH BALANCING DAMPERS NOT REQUIRED FOR SUPPLY OR EXHAUST REGISTERS



3 DUCTWORK INSTALLATION DIAGRAM

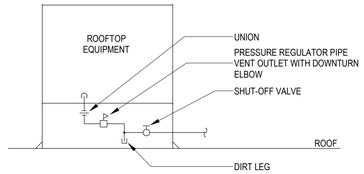
NOT TO SCALE

NOTE:
1. ROOF CURB PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE INSTALLATION AND FLASHING WITH THE GENERAL CONTRACTOR.
2. MECHANICAL CONTRACTOR SHALL COORDINATE ROOF OPENING AND CURB SIZE REQUIRED FOR DUCT PENETRATION.



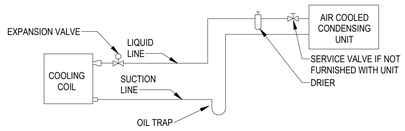
4 POWER ROOF VENTILATOR DETAIL

NOT TO SCALE



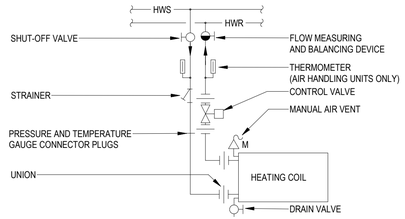
5 GAS PIPING CONNECTION FOR ROOFTOP EQUIPMENT DETAIL

NOT TO SCALE



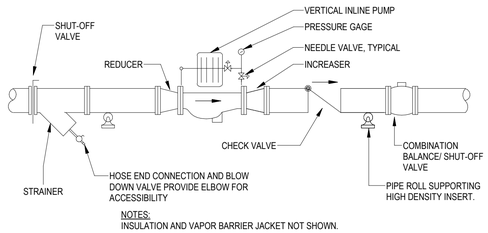
6 SPLIT SYSTEM FAN COIL UNIT PIPING SCHEMATIC

NOT TO SCALE



7 HOT WATER COIL PIPING DETAIL W/2-WAY VALVE - SINGLE

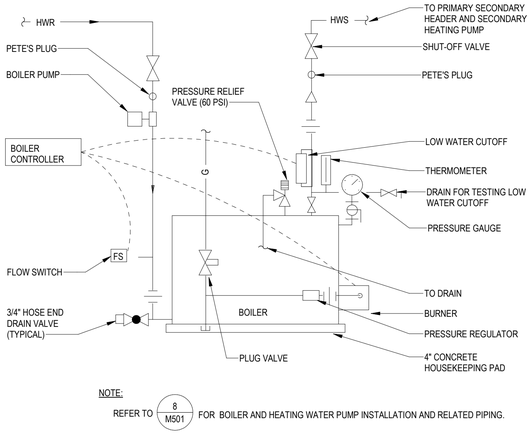
NOT TO SCALE



NOTES:
INSULATION AND VAPOR BARRIER JACKET NOT SHOWN.

8 INLINE PUMP PIPING

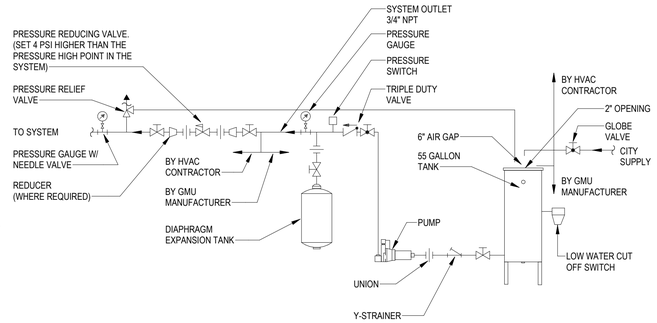
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NOTE:
REFER TO 8/M501 FOR BOILER AND HEATING WATER PUMP INSTALLATION AND RELATED PIPING.

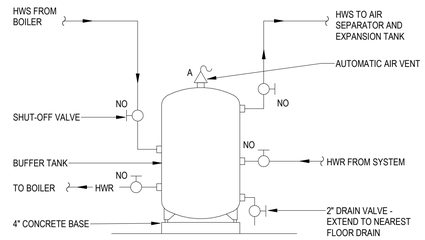
9 BOILER PIPING DIAGRAM

NOT TO SCALE



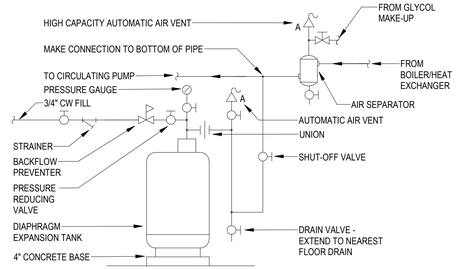
10 GLYCOL MAKE UP UNIT

NOT TO SCALE



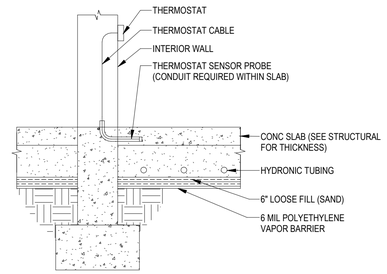
11 BUFFER TANK PIPING DETAIL

NOT TO SCALE



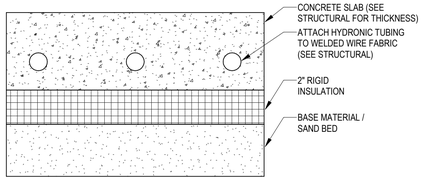
12 EXPANSION TANK PIPING WITH COLD WATER FILL DETAIL

NOT TO SCALE



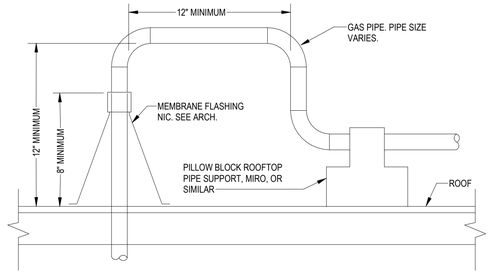
13 IN-FLOOR HEATING DETAIL (INTERIOR WALL)

NOT TO SCALE



14 CROSS SECTION OF IN-FLOOR HEAT

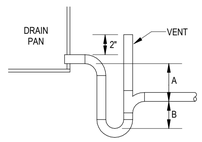
NOT TO SCALE



NOTE: PROVIDE A VERTICAL OFFSET ON ALL GAS PIPES AT ROOF PENETRATIONS TO ALLOW FOR PROPER FLASHING. SUPPORT PIPING OFFSETS.

17 ROOF PIPE PENETRATION DETAIL

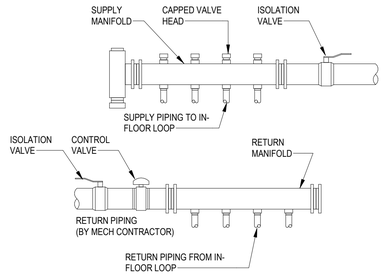
NOT TO SCALE



A= SCHEDULED FAN STATIC PLUS ONE INCH
B= 1/2 OF SCHEDULED FAN STATIC

16 COOLING COIL CONDENSATE DRAIN DETAIL

NOT TO SCALE



15 IN-FLOOR MANIFOLD DETAIL

NOT TO SCALE

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	DATE	DESCRIPTION

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SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
HVAC DETAILS

SHEET
M501

Cabinet Unit Heater Schedule

Identity	Location Name	Location No.	Manufacturer	Model	Product Type	Installation Type	Fan Capacity	Fan Motor Qty	Fan Motor Size	Fan Spec	Rated Heating Capacity	Heating Airflow Design Airflow	Heating Airflow Design EAT	Heating Airflow Design LAT	Hot-Water Design Flow Rate	Hot-Water Design Supply	Hot-Water Design Δt	Hot-Water Design Head Loss	Heat Transfer Fluid	Electrical Voltage	Electrical Phase	Product Weight	Notes
CUH-1	ENTRY VESTIBULE	99	Modine	CW-002	Cabinet	Exposed Wall Mounted	200 CFM	1	0.03 hp	Motor: Standard PSC	17112 Btu/h	200 CFM	60 °F	139 °F	1.2 GPM	140 °F	30 °F	10.0 FT	30% PG	120 V	1	90 lb	
CUH-2	BREAK ROOM VESTIBULE	116A	Modine	CW-002	Cabinet	Exposed Wall Mounted	200 CFM	1	0.03 hp	Motor: Standard PSC	17112 Btu/h	200 CFM	60 °F	139 °F	1.2 GPM	140 °F	30 °F	10.0 FT	30% PG	120 V	1	90 lb	

Electric Unit Heater Schedule

Identity	Location Name	Location No.	Manufacturer	Model	Product Type	Bottom Elevation	Fan Capacity	Heating Airflow Design Output	Heating Airflow Design Airflow	Heating Airflow Design EAT	Heating Airflow Design LAT	Electric Heat Rating	Electric Heat Load	Electric Heat Element(s)	Electrical Voltage	Electrical Phase	Product Weight	Notes
EUH-1	BULK FLUID	126	Berko	MWUH5004	Unit	7' - 6"	270 CFM	6394 Btu/h	270 CFM	60 °F	82 °F	1.9 kW	9 A	1	208 V	1	24 lb	PROVIDE WITH WALL MOUNTING BRACKETS.
EUH-2	SALT BRINE SHED	138	Berko	BWD05432	Unit	7' - 6"	700 CFM	17061 Btu/h	700 CFM	60 °F	83 °F	5.0 kW	6 A	1	480 V	3	24 lb	PROVIDE WITH WALL MOUNTING BRACKETS. PROVIDE CORROSIVE ENVIRONMENT RATED UNIT HEATER.
EUH-3	SALT BRINE SHED	138	Berko	BWD05432	Unit	7' - 6"	700 CFM	17061 Btu/h	700 CFM	60 °F	83 °F	5.0 kW	6 A	1	480 V	3	24 lb	PROVIDE WITH WALL MOUNTING BRACKETS. PROVIDE CORROSIVE ENVIRONMENT RATED UNIT HEATER.
EUH-4	SALT BRINE SHED	138	Berko	BWD05432	Unit	7' - 6"	700 CFM	17061 Btu/h	700 CFM	60 °F	83 °F	5.0 kW	6 A	1	480 V	3	24 lb	PROVIDE WITH WALL MOUNTING BRACKETS. PROVIDE CORROSIVE ENVIRONMENT RATED UNIT HEATER.
EUH-5	SALT BRINE SHED	138	Berko	BWD05432	Unit	7' - 6"	700 CFM	17061 Btu/h	700 CFM	60 °F	83 °F	5.0 kW	6 A	1	480 V	3	24 lb	PROVIDE WITH WALL MOUNTING BRACKETS. PROVIDE CORROSIVE ENVIRONMENT RATED UNIT HEATER.
EUH-6	VEHICLE COLD STORAGE	137	Berko	MWUH5004	Unit	7' - 0"	270 CFM	6394 Btu/h	270 CFM	60 °F	82 °F	1.9 kW	9 A	1	208 V	1	24 lb	PROVIDE WITH WALL MOUNTING BRACKETS.

EXHAUST FAN SCHEDULE

Identity	Installed Location	Manufacturer	Model	Product Type	Installation Type	Material	Application	Discharge Position	Airstream Temp.	Design Airflow Rate	Fan Design Capacity	Fan Design ESP	Fan Design bhp	Fan Design RPM	Fan Design Efficiency	Outlet Velocity	Drive Type	Motor Power	Motor FLA	Electrical Voltage	Electrical Phase	Interlock	Weight	Notes
EF-1	ROOF	Greenheck	GB-330-VG	Centrifugal Downblast	Support on Curb	Aluminum	General Exhaust	Downward	70 °F	9300 CFM	9300 CFM	0.75 in-wg	2.30 hp	531	50.0%	1481 FPM	Belt	3.00 hp	4.8 A	480 V	3	MUA-1	251 lb	PROVIDE BACKDRAFT DAMPER.
EF-2	ROOF	Greenheck	CUBE-480-VG	Centrifugal Upblast	Support on Curb	Aluminum	General Exhaust	Upward	70 °F	16000 CFM	16000 CFM	0.75 in-wg	3.60 hp	376	55.0%	1365 FPM	Belt	5.00 hp	7.6 A	480 V	3	MUA-2	675 lb	PROVIDE BACKDRAFT DAMPER.
EF-3	ROOF	Greenheck	CUBE-480-VG	Centrifugal Upblast	Support on Curb	Aluminum	General Exhaust	Upward	70 °F	16000 CFM	16000 CFM	0.75 in-wg	3.60 hp	376	55.0%	1365 FPM	Belt	5.00 hp	7.6 A	480 V	3	MUA-2	675 lb	PROVIDE BACKDRAFT DAMPER.
EF-4	ROOF	Greenheck	G-200-VG	Centrifugal Downblast	Support on Curb	Aluminum	General Exhaust	Downward	70 °F	2700 CFM	2700 CFM	0.50 in-wg	0.44 hp	726	49.0%	1130 FPM	Direct	1.00 hp	2.1 A	480 V	3	MUA-3	123 lb	PROVIDE BACKDRAFT DAMPER.
EF-5	ROOF	Greenheck	GB-130	Centrifugal Downblast	Support on Curb	Aluminum	General Exhaust	Downward	70 °F	1280 CFM	1280 CFM	0.50 in-wg	0.22 hp	1182	54.0%	1143 FPM	Belt	0.25 hp	0.6 A	480 V	3	MUA-4	73 lb	PROVIDE BACKDRAFT DAMPER.
EF-6	ROOF	Greenheck	G-140-VG	Centrifugal Downblast	Support on Curb	Aluminum	General Exhaust	Downward	70 °F	2450 CFM	2450 CFM	0.50 in-wg	0.67 hp	1492	29.0%	1845 FPM	Direct	1.00 hp	2.1 A	480 V	3	MUA-5	88 lb	PROVIDE BACKDRAFT DAMPER.
EF-7	ROOF	Greenheck	GB-130	Centrifugal Downblast	Support on Curb	Aluminum	General Exhaust	Downward	70 °F	1250 CFM	1250 CFM	0.50 in-wg	0.21 hp	1167	55.0%	1116 FPM	Belt	0.25 hp	0.6 A	480 V	3	RTU-1	73 lb	PROVIDE BACKDRAFT DAMPER.
EF-8	ROOF	Hartzell-Flow	A05-9-122A-7SSTFCK3H	Centrifugal Utility Blower	Base Support	Steel	General Exhaust	Top Horizontal	70 °F	700 CFM	700 CFM	7.00 in-wg	1.51 hp	3705	51.1%	3316 FPM	Belt	2.17 hp	3.6 A	480 V	3	HRE-1	293 lb	PROVIDE WITH DRAIN, VIBRATION ISOLATORS, AND OUTLET GUARD.
EF-9	ROOF	Hartzell-Flow	A05-9-122A-7SSTFCK3H	Centrifugal Utility Blower	Base Support	Steel	General Exhaust	Top Horizontal	70 °F	700 CFM	700 CFM	7.00 in-wg	1.51 hp	3705	51.1%	3316 FPM	Belt	2.17 hp	3.6 A	480 V	3	HRE-2	293 lb	PROVIDE WITH DRAIN, VIBRATION ISOLATORS, AND OUTLET GUARD.
EF-10	ROOF	Hartzell-Flow	A05-9-122A-7ISTFCK3H	Centrifugal Utility Blower	Base Support	Steel	General Exhaust	Top Horizontal	70 °F	700 CFM	700 CFM	9.00 in-wg	1.96 hp	4156	50.7%	3512 FPM	Belt	2.81 hp	4.5 A	480 V	3	HRE-3	293 lb	PROVIDE WITH DRAIN, VIBRATION ISOLATORS, AND OUTLET GUARD.
EF-11	137 VEHICLE COLD STORAGE	Greenheck	AER-30-03-0625-VG	Sidewall	Wall Housing	Galvanized Steel	General Exhaust	Horizontal	70 °F	9375 CFM	9375 CFM	0.75 in-wg	3.00 hp	1380	45.0%	2295 FPM	Direct	5.00 hp	7.6 A	480 V	3	-	199 lb	
EF-12	137 VEHICLE COLD STORAGE	Greenheck	AER-30-03-0625-VG	Sidewall	Wall Housing	Galvanized Steel	General Exhaust	Horizontal	70 °F	9375 CFM	9375 CFM	0.75 in-wg	3.00 hp	1380	45.0%	2295 FPM	Direct	5.00 hp	7.6 A	480 V	3	-	199 lb	
EF-13		Hartzell-Flow	USF-08-B6	Centrifugal Utility Blower	Base Support	Steel	General Exhaust	Up Blast	70 °F	1200 CFM	1200 CFM	5.00 in-wg	1.78 hp	4053	57.0%	4053 FPM	Belt	2.00 hp	3.4 A	480 V	3	-	151 lb	PROVIDE SPARK A RESISTANCE AND PLATFORM FOR WALL MOUNT APPLICATION AND ISOLATION BASE WITH FREE-STANDING OPEN SPRING ISOLATORS. PROVIDE NEX HD EXTRACTION ARM.

Fan Coil Unit Schedule

Identity	Location Name	Location No.	Manufacturer	Model	Nominal Capacity	Outdoor Air Intake Flow	Design Airflow Rate	Supply Fan System Capacity	Supply Fan System ESP	Supply Fan Motor Qty	Supply Fan Motor Size	Rated Cooling Capacity Total	Rated Cooling Capacity EDB	Rated Heating Capacity Output	Rated Heating Capacity EAT	Minimum Efficiency	Electrical Voltage	Electrical Phase	Interlock	Product Weight	Notes
FCU-1	FABRICATION OFFICE	129	Mitsubishi	PEAD-AA09NL	0.75 ton	70 CFM	350 CFM	350 CFM	0.60 in-wg	1	121 W	9000 Btu/h	95 °F	12000 Btu/h	47 °F	18.8 SEER2, 13.2 EER2	208 V	1	CU-1	58 lb	
FCU-2	MECHANIC OFFICE	122	Mitsubishi	PEAD-AA09NL	0.75 ton	20 CFM	350 CFM	350 CFM	0.60 in-wg	1	121 W	9000 Btu/h	95 °F	12000 Btu/h	47 °F	18.8 SEER2, 13.2 EER2	208 V	1	CU-2	58 lb	

INDOOR SPLIT SYSTEM SCHEDULE

Identity	Location Name	Location No.	Manufacturer	Model	Product Type	Installation Type	Nominal Capacity	Design Airflow Rate	Rated Cooling Capacity	Refrigerant Type	Electrical Voltage	Electrical Phase	Outdoor Unit Interlock	Product Weight	Notes
AC-1	IT/DATA	109	Daikin	FTKF12BVJU9	Ductless Cooling Only	Support by Wall	1.0 ton	399 CFM	12000 Btu/h	R-32	208 V	1	CU-3	19 lb	

OUTDOOR SPLIT SYSTEM SCHEDULE

Identity	Installed Location	Manufacturer	Model	Product Type	Area Served	Installation Type	Nominal Capacity	Outdoor Cooling EDB	Outdoor Cooling EWB	System is Heat Pump	Refrigerant Type	Refrigerant Est. Charge	Minimum Efficiency	Electrical Voltage	Electrical Phase	Interlock	Product Weight	Notes
CU-1	128 FABRICATION SHOP	Mitsubishi	SUZ-AA09NL	Heat Pump	Single Zone	Base Support	1.00 ton	95 °F	75 °F	Yes	R-454B	2 lbm	13.2 EER, 18.8 SEER2, COP 3.7	208 V	1	FCU-1	81 lb	
CU-2		Mitsubishi	SUZ-AA09NL	Heat Pump	Single Zone	Base Support	1.00 ton	95 °F	75 °F	Yes	R-454B	2 lbm	13.2 EER, 18.8 SEER2, COP 3.7	208 V	1	FCU-2	81 lb	
CU-3	ROOF	Daikin	RKF12BVJU9	Cooling Only	Single Zone	Base Support	1.00 ton	95 °F	75 °F	No	R-32	2 lbm	12.5 EER, 21 SEER2	208 V	1	AC-1	71 lb	PROVIDE LOW AMBIENT KIT.

RTU Schedule (HW & DX Cooling)

Identity	Installed Location	Manufacturer	Model	Product Type	Nominal Capacity	Outdoor Air Intake Flow	Design Airflow Rate	Supply Airflow Rate	Outdoor Air Fraction	Minimum Airflow Rate	Supply Fan System Capacity	Supply Fan System ESP	Supply Fan System TSP	Supply Fan System RPM	Supply Fan System bhp	Supply Fan Motor Qty	Supply Fan Motor Size	Supply Fan Motor RPM	Supply Fan Specification	Unit has Exhaust Fan	Exhaust Airflow Rate	Exhaust Fan Motor Qty	Exhaust Fan Motor Size	Exhaust Fan Motor RPM	Exhaust Fan Specification
RTU-1	ROOF	Trane	Horizon D012	Horizontal	12.0 ton	1330 CFM	4600 CFM	4600 CFM	28.9%	1380 CFM	4600 CFM	1.50 in-wg	2.28 in-wg	1762	2.56 hp	1	3.00 hp	1762	Supply Fan Motor Type: Direct Drive w/ Shaft Grounding Ring w/VFD	Yes	1330 CFM	1	1.00 hp	870	Exhaust Fan Motor Type: Direct Drive w/VFD

RTU Schedule (HW & DX Cooling)

Identity	Cooling Coil Total	Cooling Coil Sensible	Cooling Coil EDB	Cooling Coil EWB	Cooling Coil LDB	Cooling Coil LWB	Cooling Coil AFV	Cooling Coil APD	Rated Heating Capacity	Heating Airflow Design Source	Heating Airflow Design Output	Heating Airflow Design Airflow	Heating Airflow Design EAT	Heating Airflow Design LAT	Heating Airflow Design APD	Heating Section Airflow	Heating Section APD	Heating Section EAT	Heating Section LAT	Electrical Voltage	Electrical Phase	Interlock	Refrigerant Type	Minimum Efficiency	Operating Weight	Notes
RTU-1	140100 Btu/h	124900 Btu/h	79 °F	63 °F	52 °F	52 °F	378 FPM	0.21 in-wg	118000 Btu/h	Hot-Water Coil	96926 Btu/h	4600 CFM	44 °F	63 °F	0.28 in-wg	4600 CFM	0.28 in-wg	44 °F	63 °F	480 V	3	EF-8	R-454B	Cooling: 11.7 EER, 4.2 ISMRE2	3169 lb	DIV 28 TO PROVIDE SMOKE DETECTORS FOR MECHANICAL CONTRACTOR TO INSTALL IN SUPPLY DUCTWORK. PROVIDE CONVENIENCE OUTLET RECEPTACLE ON UNIT AND ECONOMIZER CONTROL PER SPECIFICATION.

EXHAUST HOSE REEL SCHEDULE

ID	Installed Location	MANUFACTURER	MODEL NO.	Installation Type	HOSE DIA	HOSE LENGTH	HOSE MATERIAL	HOSE ADAPTOR TYPE	INTERLOCK ID	Product Weight	System Voltage	Phase	REMARKS
HRE-1	128 FABRICATION SHOP	VIPER VEX	VEX-HR-SPR-0633	Wall Mount	8"	33'	HTC	CTA	EF-8	160 lb	120 V	1	PROVIDE 50' LONG HOSE VEX-HOS-600 FLEXIBLE HOSE WITH A DOUBLE CASSETTE & SPRING LID EXTRACTION NOZZLE.
HRE-2	127 REPAIR GARAGE	VIPER VEX	VEX-HR-SPR-0633	Wall Mount	8"	33'	HTC	CTA	EF-9	160 lb	120 V	1	PROVIDE VEX-HOS-600 FLEXIBLE HOSE & SPRING LID EXTRACTION NOZZLE.
HRE-3	127 REPAIR GARAGE	VIPER VEX	VEX-HR-MOT-0633	Ceiling Mount	8"	33'	HTC	CTA	EF-10	160 lb	120 V	1	PROVIDE VEX-HOS-600 FLEXIBLE HOSE & SPRING LID EXTRACTION NOZZLE.

Gas-Fired Unit Heater Schedule

Identity	Location Name	Location No.	Manufacturer	Model	Product Type	Bottom Elevation	Fan Capacity	Fan Outlet Velocity	Fan Motor Qty	Fan Motor Size	Fan Motor RPM	Heating Airflow Design Output	Heating Airflow Design Airflow	Heating Airflow Design EAT	Heating Airflow Design LAT	Gas Burner Ratings Type	Gas Burner Ratings Input Rating	Gas Burner Ratings Output Rating	Gas Burner Ratings Efficiency	Gas Burner Ratings Minimum Rate	Heating Stages	Electrical Voltage	Electrical Phase	Product Weight	Notes
GUH-1	REPAIR GARAGE	127	Reznor	UDXC-175	Power Vented	7' - 6"	2242 CFM	877 FPM	1	0.25 hp	1050	145250 Btu/h	2242 CFM	60 °F	120 °F	NG	175000 Btu/h	145250 Btu/h	83.0%	101675 Btu/h	2	120 V	1	193 lb	
GUH-2	REPAIR GARAGE	127	Reznor	UDXC-175	Power Vented	7' - 6"	2242 CFM	877 FPM	1	0.25 hp	1050	145250 Btu/h	2242 CFM	60 °F	120 °F	NG	175000 Btu/h	145250 Btu/h	83.0%	101675 Btu/h	2	120 V	1	193 lb	
GUH-3	REPAIR GARAGE	127	Reznor	UDXC-175	Power Vented	7' - 6"	2242 CFM	877 FPM	1	0.25 hp	1050	145250 Btu/h	2242 CFM	60 °F	120 °F	NG	175000 Btu/h	145250 Btu/h	83.0%	101675 Btu/h	2	120 V	1	193 lb	
GUH-4	FABRICATION SHOP	128	Reznor	UDXC-100	Power Vented	7' - 6"	1345 CFM	668 FPM	1	0.25 hp	1050	87150 Btu/h	1345 CFM	60 °F	120 °F	NG	105000 Btu/h	87150 Btu/h	83.0%	61005 Btu/h	2	120 V	1	101 lb	
GUH-5	FABRICATION SHOP	128	Reznor	UDXC-100	Power Vented	7' - 6"	1345 CFM	668 FPM	1	0.25 hp	1050	87150 Btu/h	1345 CFM	60 °F	120 °F	NG	105000 Btu/h	87150 Btu/h	83.0%	61005 Btu/h	2	120 V	1	101 lb	
GUH-6	PARTS STORAGE	117	Reznor	UDXC-100	Power Vented	7' - 6"	1345 CFM	668 FPM	1	0.25 hp	1050	87150 Btu/h	1345 CFM	60 °F	120 °F	NG	105000 Btu/h	87150 Btu/h	83.0%	61005 Btu/h	2	120 V	1	101 lb	
GUH-7	HEATED PARKING GARAGE	130	Reznor	UDXC-100	Power Vented	7' - 6"	1345 CFM	668 FPM	1	0.25 hp	1050	87150 Btu/h	1345 CFM	60 °F	120 °F	NG	105000 Btu/h	87150 Btu/h	83.0%	61005 Btu/h	2	120 V	1	101 lb	
GUH-8	HEATED PARKING GARAGE	130	Reznor	UDXC-100	Power Vented	7' - 6"	1345 CFM	668 FPM	1	0.25 hp	1050	87150 Btu/h	1345 CFM	60 °F	120 °F	NG	105000 Btu/h	87150 Btu/h	83.0%	61005 Btu/h	2	120 V	1	101 lb	
GUH-9	HEATED PARKING GARAGE	130	Reznor	UDXC-100	Power Vented	7' - 6"	1345 CFM	668 FPM	1	0.25 hp	1050	87150 Btu/h	1345 CFM	60 °F	120 °F	NG	105000 Btu/h	87150 Btu/h	83.0%	61005 Btu/h	2	120 V	1	101 lb	
GUH-10	HEATED PARKING GARAGE	130	Reznor	UDXC-100	Power Vented	7' - 6"	1345 CFM	668 FPM	1	0.25 hp	1050	87150 Btu/h	1345 CFM	60 °F	120 °F	NG	105000 Btu/h	87150 Btu/h	83.0%	61005 Btu/h	2	120 V	1	101 lb	
GUH-11	VEHICLE WASH	133	Reznor	UDXC-100	Power Vented	7' - 6"	1345 CFM	668 FPM	1	0.25 hp	1050	87150 Btu/h	1345 CFM	60 °F	120 °F	NG	105000 Btu/h	87150 Btu/h	83.0%	61005 Btu/h	2	120 V	1	101 lb	
GUH-12	VEHICLE WASH	133	Reznor	UDXC-100	Power Vented	7' - 6"	1345 CFM	668 FPM	1	0.25 hp	1050	87150 Btu/h	1345 CFM	60 °F	120 °F	NG	105000 Btu/h	87150 Btu/h	83.0%	61005 Btu/h	2	120 V	1	101 lb	

GRILLES, REGISTERS & DIFFUSERS SCHEDULE

ID Type	Description	Manufacturer	Model	Qty	Type	Material	Finish	Deflection Type	Blade Design Spacing	Blade Design Angle	Blade Design Direction	Border Application	Face or Module Size	Notes
CD9	Ceiling Diffuser	Titus	TMS	25	Square Cone	Steel	White Enamel	Fixed Deflection				Lay-In Full Face	24x24	
DL2	Supply Grille	Titus	DL-SV	12	Drum Louver	Aluminum	White Enamel	Split Vane	0"	0.0°	Short Dimension	Surface Mount		
LD7	Linear Diffuser	Titus	ML-38	4	Modulinear	Aluminum	White Enamel	Pattern Controller				Lay-In Full Face	4'-0"L	
RG2	Return Grille	Titus	50F	2	Eggcrate Return	Aluminum	White Enamel	Code A	1/2"	0.0°	Grid	Lay-In Full Face	24x12	
RG2	Return Grille	Titus	50F	27	Eggcrate Return	Aluminum	White Enamel	Code A	1/2"	0.0°	Grid	Lay-In Full Face	24x24	
RG6	RETURN GRILLE	Titus	350FL	5	Louvered Return	Aluminum	White Enamel	Fixed Blade	3/4"	35.0°	Long Dimension	Surface Mount	---	
RG7	Return Grille	Titus	350FL	2	Louvered Return	Aluminum	White Enamel	Fixed Blade	3/4"	35.0°	Long Dimension	Surface Mount		
SG1	Supply Grille	Titus	S300FL	8	Spiral Grille	Aluminum	White Enamel	Double Deflection	3/4"	0.0°	Short Dimension	Duct Mount Frame		
SG6	Supply Grille	Titus	301F	11	Louvered Grille	Aluminum	White Enamel	Single Deflection	3/4"	0.0°	Short Dimension	Surface Mount		

Gas-Fired Radiant Heater Schedule

Identity	Location Name	Location No.	Manufacturer	Model	Product Type	Installation Type	Bottom Elevation	Heat Exchanger Type	Gas Burner Length	Gas Burner Ratings Type	Gas Burner Ratings Input Rating	Intake Duct Dia.	Exhaust Duct Dia.	Heating Stages	Electrical Voltage	Electrical Phase	Product Weight	Notes
IR-1	HEATED PARKING GARAGE	130	Roberts Gordon	CTH3-200	Radiant	Reflector Down	20' - 0"	AL/SS	50 ft	NG	200000 Btu/h	5"	4"	3	120 V	1	385 lb	PROVIDE WITH TIMER SWITCH WITH MANUAL OVERRIDE.
IR-2	HEATED PARKING GARAGE	130	Roberts Gordon	CTH3-200	Radiant	Reflector Down	20' - 0"	AL/SS	50 ft	NG	200000 Btu/h	5"	4"	3	120 V	1	385 lb	PROVIDE WITH TIMER SWITCH WITH MANUAL OVERRIDE.
IR-3	HEATED PARKING GARAGE	130	Roberts Gordon	CTH3-200	Radiant	Reflector Down	20' - 0"	AL/SS	50 ft	NG	200000 Btu/h	5"	4"	3	120 V	1	385 lb	PROVIDE WITH TIMER SWITCH WITH MANUAL OVERRIDE.
IR-4	HEATED PARKING GARAGE	130	Roberts Gordon	CTH3-200	Radiant	Reflector Down	20' - 0"	AL/SS	50 ft	NG	200000 Btu/h	5"	4"	3	120 V	1	385 lb	PROVIDE WITH TIMER SWITCH WITH MANUAL OVERRIDE.
IR-5	HEATED PARKING GARAGE	130	Roberts Gordon	CTH3-200	Radiant	Reflector Down	20' - 0"	AL/SS	50 ft	NG	200000 Btu/h	5"	4"	3	120 V	1	385 lb	PROVIDE WITH TIMER SWITCH WITH MANUAL OVERRIDE.
IR-6	HEATED PARKING GARAGE	130	Roberts Gordon	CTH3-200	Radiant	Reflector Down	20' - 0"	AL/SS	50 ft	NG	200000 Btu/h	5"	4"	3	120 V	1	385 lb	PROVIDE WITH TIMER SWITCH WITH MANUAL OVERRIDE.
IR-7	HEATED PARKING GARAGE	130	Roberts Gordon	CTH3-200	Radiant	Reflector Down	20' - 0"	AL/SS	50 ft	NG	200000 Btu/h	5"	4"	3	120 V	1	385 lb	PROVIDE WITH TIMER SWITCH WITH MANUAL OVERRIDE.
IR-8	HEATED PARKING GARAGE	130	Roberts Gordon	CTH3-200	Radiant	Reflector Down	20' - 0"	AL/SS	50 ft	NG	200000 Btu/h	5"	4"	3	120 V	1	385 lb	PROVIDE WITH TIMER SWITCH WITH MANUAL OVERRIDE.
IR-9	HEATED PARKING GARAGE	130	Roberts Gordon	CTH3-200	Radiant	Reflector Down	20' - 0"	AL/SS	50 ft	NG	200000 Btu/h	5"	4"	3	120 V	1	385 lb	PROVIDE WITH TIMER SWITCH WITH MANUAL OVERRIDE.
IR-10	HEATED PARKING GARAGE	130	Roberts Gordon	CTH3-200	Radiant	Reflector Down	20' - 0"	AL/SS	50 ft	NG	200000 Btu/h	5"	4"	3	120 V	1	385 lb	PROVIDE WITH TIMER SWITCH WITH MANUAL OVERRIDE.
IR-11	HEATED PARKING GARAGE	130	Roberts Gordon	CTH3-200	Radiant	Reflector Down	20' - 0"	AL/SS	50 ft	NG	200000 Btu/h	5"	4"	3	120 V	1	385 lb	PROVIDE WITH TIMER SWITCH WITH MANUAL OVERRIDE.
IR-12	HEATED PARKING GARAGE	130	Roberts Gordon	CTH3-200	Radiant	Reflector Down	20' - 0"	AL/SS	50 ft	NG	200000 Btu/h	5"	4"	3	120 V	1	385 lb	PROVIDE WITH TIMER SWITCH WITH MANUAL OVERRIDE.

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HVAC SCHEDULES

SHEET
M601

Make-Up Air Unit Schedule (Gas-Fired)

Identity	Installed Location	Manufacturer	Model	Product Type	Installation Type	Outdoor Air Intake Flow	Design Airflow Rate	Outdoor Air Fraction	Supply Fan System				Supply Fan Motor			Heating Airflow Design			Gas Burner Ratings				Electrical		Interlock	Product Weight	Notes
									Capacity	ESP	TSP	bhp	Qty	Size	RPM	Output	EAT	LAT	Type	Input Rating	Output Rating	Efficiency	Voltage	Phase			
MUA-1	ROOF	Greenheck	DGX-P120-H32-MF	Gas-Fired	Support on Curb	8400 CFM	8400 CFM	100.0%	8400 CFM	0.75 in-wg	1.60 in-wg	4.15 hp	1	5.00 hp	1649	1104000 Btu/h	-21 °F	101 °F	NG	1200000 Btu/h	1104000 Btu/h	92.0%	460 V	3	EF-1	1048 lb	DIV 28 TO PROVIDE SMOKE DUCT DETECTORS FOR MECHANICAL CONTRACTOR TO INSTALL IN SUPPLY DUCTWORK. PROVIDE CONVENIENCE OUTLET RECEPTACLE ON UNIT.
MUA-2	ROOF	Greenheck	DGX-133-H42	Gas-Fired	Support on Curb	28680 CFM	28680 CFM	100.0%	28680 CFM	1.00 in-wg	1.94 in-wg	19.59 hp	1	25.00 hp	468	2944000 Btu/h	-21 °F	74 °F	NG	3200000 Btu/h	2944000 Btu/h	92.0%	460 V	3	EF-2 & EF-3	3938 lb	DIV 28 TO PROVIDE SMOKE DUCT DETECTORS AND SMOKE ISOLATION DAMPERS FOR MECHANICAL CONTRACTOR TO INSTALL IN SUPPLY DUCTWORK. PROVIDE CONVENIENCE OUTLET RECEPTACLE ON UNIT.
MUA-3	ROOF	Greenheck	DGX-P115-H12-MF	Gas-Fired	Support on Curb	2450 CFM	2450 CFM	100.0%	2450 CFM	0.50 in-wg	1.25 in-wg	0.94 hp	1	1.50 hp	2361	368000 Btu/h	-21 °F	118 °F	NG	400000 Btu/h	368000 Btu/h	92.0%	460 V	3	EF-4	593 lb	DIV 28 TO PROVIDE SMOKE DUCT DETECTORS FOR MECHANICAL CONTRACTOR TO INSTALL IN SUPPLY DUCTWORK. PROVIDE CONVENIENCE OUTLET RECEPTACLE ON UNIT.
MUA-4	ROOF	Greenheck	DGX-P109-H12-MF	Gas-Fired	Support on Curb	1100 CFM	1100 CFM	100.0%	1100 CFM	0.50 in-wg	1.15 in-wg	0.37 hp	1	0.50 hp	1725	166320 Btu/h	-21 °F	119 °F	NG	180800 Btu/h	166300 Btu/h	92.0%	460 V	3	EF-5	577 lb	PROVIDE CONVENIENCE OUTLET RECEPTACLE ON UNIT.
MUA-5	ROOF	Greenheck	DGX-P112-H12-MF	Gas-Fired	Support on Curb	2195 CFM	2195 CFM	100.0%	2195 CFM	0.50 in-wg	1.23 in-wg	0.80 hp	1	1.00 hp	2216	331884 Btu/h	-21 °F	119 °F	NG	360700 Btu/h	331900 Btu/h	92.0%	460 V	3	EF-6	586 lb	DIV 28 TO PROVIDE SMOKE DUCT DETECTORS FOR MECHANICAL CONTRACTOR TO INSTALL IN SUPPLY DUCTWORK. PROVIDE CONVENIENCE OUTLET RECEPTACLE ON UNIT.

VAV Unit Schedule (Hot-Water)

Identity	Location		Manufacturer	Model	Product Type	Equipment Unit Size	Design Airflow Rate	Primary Airflow Rate	Minimum Airflow Rate	Minimum Airflow Factor	Exterior Zone	Heating Airflow Design				Hot-Water Design				Hot-Water Coil		Heat Transfer Fluid	Product Weight	Notes
	Name	No.										Output	Airflow	EAT	LAT	Flow Rate	Supply	Δt	Head Loss	LWT	Rows			
VAV-1	KITCHENETTE	104A	Trane	VCWF	Single Duct	8	570 CFM	570 CFM	171 CFM	30.0%	Yes	24624 Btu/h	570 CFM	55 °F	95 °F	1.7 GPM	140 °F	30 °F	10.0 FT	110 °F	3	30% PG	34 lb	
VAV-2	RECORD & ARCHIVE	110	Trane	VCWF	Single Duct	6	335 CFM	335 CFM	101 CFM	30.0%	No	2727 Btu/h	101 CFM	55 °F	80 °F	0.2 GPM	140 °F	30 °F	10.0 FT	110 °F	3	30% PG	32 lb	
VAV-3	ADMIN ASSISTANT	100	Trane	VCWF	Single Duct	6	340 CFM	340 CFM	102 CFM	30.0%	Yes	14688 Btu/h	340 CFM	55 °F	95 °F	1.0 GPM	140 °F	30 °F	10.0 FT	110 °F	3	30% PG	32 lb	
VAV-4	CONFERENCE	102	Trane	VCWF	Single Duct	10	890 CFM	890 CFM	267 CFM	30.0%	Yes	38448 Btu/h	890 CFM	55 °F	95 °F	2.7 GPM	140 °F	30 °F	10.0 FT	110 °F	3	30% PG	39 lb	
VAV-5	OFFICE MANAGER	103	Trane	VCWF	Single Duct	5	170 CFM	170 CFM	51 CFM	30.0%	Yes	7344 Btu/h	170 CFM	55 °F	95 °F	0.5 GPM	140 °F	30 °F	10.0 FT	110 °F	3	30% PG	32 lb	
VAV-6	HIGHWAY COMMISSIONER	104	Trane	VCWF	Single Duct	6	295 CFM	295 CFM	89 CFM	30.0%	Yes	12744 Btu/h	295 CFM	55 °F	95 °F	0.9 GPM	140 °F	30 °F	10.0 FT	110 °F	3	30% PG	32 lb	
VAV-7	PATROL SUPT. & OPS. MANAGER	106	Trane	VCWF	Single Duct	5	250 CFM	250 CFM	75 CFM	30.0%	No	2025 Btu/h	75 CFM	55 °F	80 °F	0.1 GPM	140 °F	30 °F	10.0 FT	110 °F	3	30% PG	32 lb	
VAV-8	CORRIDOR	45	Trane	VCWF	Single Duct	4	100 CFM	100 CFM	35 CFM	35.0%	Yes	4320 Btu/h	100 CFM	55 °F	95 °F	0.3 GPM	140 °F	30 °F	10.0 FT	110 °F	3	30% PG	32 lb	
VAV-9	BREAK ROOM	116	Trane	VCWF	Single Duct	8	550 CFM	550 CFM	205 CFM	37.3%	No	5535 Btu/h	205 CFM	55 °F	80 °F	0.4 GPM	140 °F	30 °F	10.0 FT	110 °F	3	30% PG	34 lb	
VAV-10	BREAK ROOM	116	Trane	VCWF	Single Duct	8	550 CFM	550 CFM	205 CFM	37.3%	No	5535 Btu/h	205 CFM	55 °F	80 °F	0.4 GPM	140 °F	30 °F	10.0 FT	110 °F	3	30% PG	34 lb	
VAV-11	BREAK ROOM	116	Trane	VCWF	Single Duct	8	605 CFM	605 CFM	182 CFM	30.0%	Yes	26136 Btu/h	605 CFM	55 °F	95 °F	1.8 GPM	140 °F	30 °F	10.0 FT	110 °F	3	30% PG	34 lb	

GAS-FIRED BOILER SCHEDULE

Identity	Location		Manufacturer	Model	Product Type	Installation Type	System Design		Heat Transfer Fluid	Hot-Water Design						Thermal Efficiency	Gas Burner				Turndown Ratio	Gas Inlet Pipe Size	Flue Vent	Electrical		Product Weight	Notes
	Name	No.					Flow	WPD		Capacity	Flow Rate	Head Loss	Supply	Return	Temp. Rise		Type	Input Rating	Output Rating	Efficiency	Minimum Rate				Voltage	Phase		
B-1	MEZZANINE	200	Riello	Condexa Pro 75 NA	Condensing	Support by Wall	25.0 GPM	9.4 FT	30% PG	239500 Btu/h	25.0 GPM	9.4 FT	99 °F	79 °F	20 °F	95.0%	NG	255900 Btu/h	243105 Btu/h	95.0%	25590 Btu/h	10	1 1/4"	4"	120 V	1	141 lb	
B-2	VEHICLE WASH CLOSET	134	Riello	AR 1000	Condensing	Base Support	69.9 GPM	18.2 FT	50% PG	772395 Btu/h	69.9 GPM	18.2 FT	111 °F	86 °F	25 °F	92.0%	NG	1000000 Btu/h	961000 Btu/h	96.1%	100000 Btu/h	10	1 1/2"	6"	120 V	1	480 lb	
B-3	MEZZANINE	200	Riello	Condexa Pro 75 NA	Condensing	Support by Wall	13.8 GPM	20.0 FT	30% PG	198306 Btu/h	13.8 GPM	20.0 FT	140 °F	110 °F	30 °F	95.0%	NG	255900 Btu/h	243105 Btu/h	95.0%	25590 Btu/h	10	1 1/4"	4"	120 V	1	141 lb	
B-4	MEZZANINE	200	Riello	Condexa Pro 75 NA	Condensing	Support by Wall	13.8 GPM	20.0 FT	30% PG	198306 Btu/h	13.8 GPM	20.0 FT	140 °F	110 °F	30 °F	95.0%	NG	255900 Btu/h	243105 Btu/h	95.0%	25590 Btu/h	10	1 1/4"	4"	120 V	1	141 lb	

EXPANSION TANK SCHEDULE

Identity	Location		Manufacturer	Model	Product Type	Installation Type	System Fluid	Max System Pressure	Max System Temp.	Water Supply Temp.	System Pipe Size	MAWP	MAWT	Tank Fill		Tank Acceptance		Tank Capacity	Product Weight	Operating Weight	Notes
	Name	No.												Pressure	Temp.	Factor	Volume				
ET-1	MEZZANINE	200	Amtrol	EX-90	Fixed Diaphram	Base Support	Heating Water	100 psi	240 °F	140 °F	1/2"	125 psi	240 °F	12 psi	140 °F	80.7%	11.3 gal	14.0 gal	23 lb	117 lb	
ET-2	VEHICLE WASH CLOSET	134	Amtrol	EX-30	Fixed Diaphram	Base Support	Heating Water	100 psi	240 °F	140 °F	1/2"	125 psi	240 °F	12 psi	140 °F	56.8%	2.5 gal	4.4 gal	9 lb	30 lb	
ET-3	MEZZANINE	200	Calefactio	ALT-85	Fixed Diaphram	Base Support	Heating Water	126 psi	240 °F	140 °F	1"	125 psi	240 °F	12 psi	140 °F	100.0%	23.0 gal	23.0 gal	80 lb	272 lb	

PRIMARY SECONDARY HEADER SCHEDULE

Identity	Description	Location		Manufacturer	Model	Product Type	Installation Type	System Fluid	System Pipe Size	Rated Maximum Flow	MAWP	MAWT	ASME	Weight	Notes
		Name	No.												
PSH-1	Primary/Secondary	MEZZANINE	200	Calefactio	CB150-4	4 lin 1 Hydraulic Separator	Support by Wall	Heating Water	1 1/2"	26.0 GPM	150 psi	212 °F	Yes	16 lb	
PSH-2	Primary/Secondary	VEHICLE WASH CLOSET	134	Calefactio	CB150-4	4 lin 1 Hydraulic Separator	Support by Wall	Heating Water	2 1/2"	26.0 GPM	150 psi	212 °F	Yes	16 lb	
PSH-3	Primary/Secondary	MEZZANINE	200	Calefactio	CB150-4	4 lin 1 Hydraulic Separator	Support by Wall	Heating Water	1 1/2"	26.0 GPM	150 psi	212 °F	Yes	16 lb	

CIRCULATING PUMP SCHEDULE

Identity	Location		Manufacturer	Model	Product Type	Material	System Fluid	Heat Transfer Fluid	Max System Temp.	Arrangement	Pump Design		Motor		Electrical		Interlock	Weight	Notes
	Name	No.									Flow	Head	Power	FLA	Voltage	Phase			
HWP-1	MEZZANINE	200	Taco	0034e-F2	Inline	Cast Iron	Heating Water	30% PG	99 °F	Stand-Alone Pump	25.0 GPM	18.0 FT	0.25 hp	3.2 A	208 V	1	B-1	11 lb	
HWP-2	VEHICLE WASH CLOSET	134	Taco	VR25H	Inline	Cast Iron	Heating Water	50% PG	115 °F	System/Standby Set	70.0 GPM	40.0 FT	2.10 hp	13.8 A	208 V	1	B-2	28 lb	
HWP-3	MEZZANINE	200	Taco	VR15M	Inline	Cast Iron	Heating Water	30% PG	140 °F	Stand-Alone Pump	23.0 GPM	25.0 FT	0.60 hp	6.3 A	208 V	1	B-3	28 lb	
HWP-4	MEZZANINE	200	Taco	VR15M	Inline	Cast Iron	Heating Water	30% PG	140 °F	Stand-Alone Pump	23.0 GPM	25.0 FT	0.60 hp	6.3 A	208 V	1	B-3	28 lb	

HVLS & DESTRAT FANS SCHEDULE

Identity Mark	MANUFACTURER	MODEL	FAN DIAMETER	VOLUME	AVERAGE AIR SPEED	AVERAGE AIR SPEED MAX	COOLING EFFECT	FAN RPM	MOTOR SIZE	VOLTAGE	CYCLE	PHASE NUMBER	OUTLET DBA	FLA (APPROXIMATE)	UNIT WEIGHT	DROP LENGTH	Notes
HVLS-1	GREENHECK	DS-6-24-210HV	24' - 0"	93500 CFM	151 FPM	469 FPM	8 °F	25	2.00 hp	480 V	60 Hz	3	47	3.5 A	247 lb	3' - 6"	PROVIDE STEEL TRUSS MOUNTING KIT.
HVLS-2	GREENHECK	DS-6-24-210HV	24' - 0"	93500 CFM	151 FPM	469 FPM	8 °F	25	2.00 hp	480 V	60 Hz	3	47	3.5 A	247 lb	3' - 6"	PROVIDE STEEL TRUSS MOUNTING KIT.
HVLS-3	GREENHECK	DS-6-24-210HV	24' - 0"	93500 CFM	151 FPM	469 FPM	8 °F	25	2.00 hp	480 V	60 Hz	3	47	3.5 A	247 lb	3' - 6"	PROVIDE STEEL TRUSS MOUNTING KIT.
HVLS-4	GREENHECK	DS-6-24-210HV	24' - 0"	93500 CFM	151 FPM	469 FPM	8 °F	25	2.00 hp	480 V	60 Hz	3	47	3.5 A	247 lb	3' - 6"	PROVIDE STEEL TRUSS MOUNTING KIT.
HVLS-5	GREENHECK	DS-6-12-90HV	12' - 0"	45300 CFM	152 FPM	334 FPM	8 °F	77	1.50 hp	480 V	60 Hz	3	33	2.5 A	172 lb	3' - 6"	PROVIDE UNIVERSAL CEILING MOUNT.
HVLS-6	GREENHECK	DS-3-24-210HV	24' - 0"	123792 CFM	180 FPM	275 FPM	8 °F	41	2.00 hp	480 V	60 Hz	3	33	3.5 A	173 lb	3' - 6"	PROVIDE STEEL TRUSS MOUNTING KIT.

Electric Unit Heater Schedule

Identity	Location		Manufacturer	Model	Product Type	Bottom Elevation	Fan Capacity	Heating Airflow Design				Electric Heat			Electrical		Product Weight	Notes
	Name	No.						Output	Airflow	EAT	LAT	Rating	Load	Element(s)	Voltage	Phase		
EUH-1	BULK FLUID	126	Berko	MWUH5004	Unit	7' - 6"	270 CFM	6394 Btu/h	270 CFM	60 °F	82 °F	1.9 kW	9 A	1	208 V	1	24 lb	PROVIDE WITH WALL MOUNTING BRACKETS.
EUH-2	SALT BRINE SHED	138	Berko	BWD05432	Unit	7' - 6"	700 CFM	17061 Btu/h	700 CFM	60 °F	83 °F	5.0 kW	6 A	1	480 V	3	24 lb	PROVIDE WITH WALL MOUNTING BRACKETS. PROVIDE CORROSIVE ENVIRONMENT RATED UNIT HEATER.
EUH-3	SALT BRINE SHED	138	Berko	BWD05432	Unit	7' - 6"	700 CFM	17061 Btu/h	700 CFM	60 °F	83 °F	5.0 kW	6 A	1	480 V	3	24 lb	PROVIDE WITH WALL MOUNTING BRACKETS. PROVIDE CORROSIVE ENVIRONMENT RATED UNIT HEATER.
EUH-4	SALT BRINE SHED	138	Berko	BWD05432	Unit	7' - 6"	700 CFM	17061 Btu/h	700 CFM	60 °F	83 °F	5.0 kW	6 A	1	480 V	3	24 lb	PROVIDE WITH WALL MOUNTING BRACKETS. PROVIDE CORROSIVE ENVIRONMENT RATED UNIT HEATER.
EUH-5	SALT BRINE SHED	138	Berko	BWD05432	Unit	7' - 6"	700 CFM	17061 Btu/h	700 CFM	60 °F	83 °F	5.0 kW	6 A	1	480 V	3	24 lb	PROVIDE WITH WALL MOUNTING BRACKETS. PROVIDE CORROSIVE ENVIRONMENT RATED UNIT HEATER.
EUH-6	VEHICLE COLD STORAGE	137	Berko	MWUH5004	Unit	7' - 0"	270 CFM	6394 Btu/h	270 CFM	60 °F	82 °F	1.9 kW	9 A	1	208 V	1	24 lb	PROVIDE WITH WALL MOUNTING BRACKETS.

Kitchen Hood Schedule

Identity	Location		Manufacturer	Model	Product Type	Installation Type	Material	Exhaust Airflow Rate	Dimensions			Product Weight	Electrical		Specification	Notes
	Name	No.							Length	Width	Height		Voltage	Phase		
KH-1	BREAK ROOM	116	Greenheck	GRRS	Residential	Wall-Mount	Stainless Steel	250 CFM	30"	30"	13"	88 lb	120 V	1	PROVIDE FRONT RECIRCULATION WITH INTEGRAL EXHAUST FAN AND ELECTRICAL SHUTOFF.	

PIPING MANIFOLD SCHEDULE

Identity	Location		Manufacturer	Product Type	Manifold Design						Loop/Circuit Design				Heat Transfer Fluid	Notes
	Name	No.			Capacity	Flow Rate	EWT	LWT	Temp. Drop	WPD	Loop(s)	Qty	Max Length	Spacing		
MF-1	REPAIR GARAGE	127	Roth	Cabinet	59683 Btu/h	6.2 GPM	99 °F	79 °F	20 °F	6.7 FT	5/8"	4	300 LF	12"	30% PG	
MF-2	REPAIR GARAGE	127	Roth	Cabinet	62557 Btu/h	6.5 GPM	99 °F	79 °F	20 °F	8.2 FT	5/8"	4	300 LF	12"	30% PG	
MF-3	REPAIR GARAGE	127	Roth	Cabinet	58917 Btu/h	6.2 GPM	99 °F	79 °F	20 °F	8.3 FT	5/8"	4	300 LF	12"	30% PG	
MF-4	REPAIR GARAGE	127	Roth	Cabinet	58917 Btu/h	6.2 GPM	99 °F	79 °F	20 °F	7.4 FT	5/8"	4	300 LF	12"	30% PG	
MF-5	HEATED PARKING GARAGE	130	Roth	Cabinet	264869 Btu/h	24.0 GPM	111 °F	86 °F	25 °F	7.2 FT	5/8"	4	300 LF	6"	50% PG	
MF-6	HEATED PARKING GARAGE	130	Roth	Cabinet	253929 Btu/h	23.0 GPM	111 °F	86 °F	25 °F	6.6 FT	5/8"	4	300 LF	6"	50% PG	
MF-7	HEATED PARKING GARAGE	130	Roth	Cabinet	253377 Btu/h	22.9 GPM	111 °F	86 °F	25 °F	6.6 FT	5/8"	4	300 LF	6"	50% PG	

CIRCULATION FAN SCHEDULE

mv	Location		Manufacturer	Model	Product Type	Installation Type	Airstream Temp.	Design Airflow Rate	Fan Design RPM	Motor		Electrical			Weight	Notes
	Name	No.								Power	FLA	Voltage	Phase			
CF-1	FABRICATION SHOP	128	Greenheck	IC-30-B5-J1	AIR CIRCULATOR	Support by Wall	70 °F	9704 CFM	1075	0.5 hp	9.8 A	120 V	1	54 lb		
CF-2	FABRICATION SHOP	128	Greenheck	IC-30-B5-J1	AIR CIRCULATOR	Support by Wall	70 °F	9704 CFM	1075	0.5 hp	9.8 A	120 V	1	54 lb		
CF-3	REPAIR GARAGE	127	Greenheck	IC-30-B5-J1	AIR CIRCULATOR	Support by Wall	70 °F	9704 CFM	1075	0.5 hp	9.8 A	120 V	1	54 lb		
CF-4	REPAIR GARAGE	127	Greenheck	IC-30-B5-J1	AIR CIRCULATOR	Support by Wall	70 °F	9704 CFM	1075	0.5 hp	9.8 A	120 V	1	54 lb		
CF-5	REPAIR GARAGE	127	Greenheck	IC-30-B5-J1	AIR CIRCULATOR	Support by Wall	70 °F	9704 CFM	1075	0.5 hp	9.8 A	120 V	1	54 lb		
CF-6	REPAIR GARAGE	127	Greenheck	IC-30-B5-J1	AIR CIRCULATOR	Support by Wall	70 °F	9704 CFM	1075	0.5 hp	9.8 A	120 V	1	54 lb		

GLYCOL MAKE-UP UNIT SCHEDULE

Identity	Location		Manufacturer	Model	Product Type	System Pipe Size	Tank Capacity	Pump Design Flow	Discharge Pressure	Electrical		Weight	Notes
	Name	No.								Voltage	Phase		
GMU-1	MEZZANINE	200	Bell & Gossett	GMU-18	Automatic	1/2"	68.1 gal	1.6 GPM	60 psi	120 V	1	160 lb	
GMU-2	VEHICLE WASH CLOSET	134	Bell & Gossett	GMU-18	Automatic	1/2"	68.1 gal	1.6 GPM	60 psi	120 V	1	160 lb	
GMU-3	MEZZANINE	200	Bell & Gossett	GMU-18	Automatic	1/2"	68.1 gal	1.6 GPM	60 psi	120 V	1	160 lb	

Louver Schedule

Identity	Installed Location	Manufacturer	Model	Product Type	Approximate Elevation	Material	Application	Design Airflow Rate	Design Velocity	Max Design Velocity	Design Pressure Drop	Free Area		Dimensions			Notes
												Size	Velocity	Width	Height	Depth	
L-1	137 VEHICLE COLD STORAGE	GREENHECK	EVH-501-72x108	VERTICAL RAIN RESISTANT LOUVER	10' - 0"	ALUMINUM	INTAKE	18750 CFM	596 FPM	600 FPM	0.06 in-wg	31.5 SF	596 FPM	72"	108"	5"	

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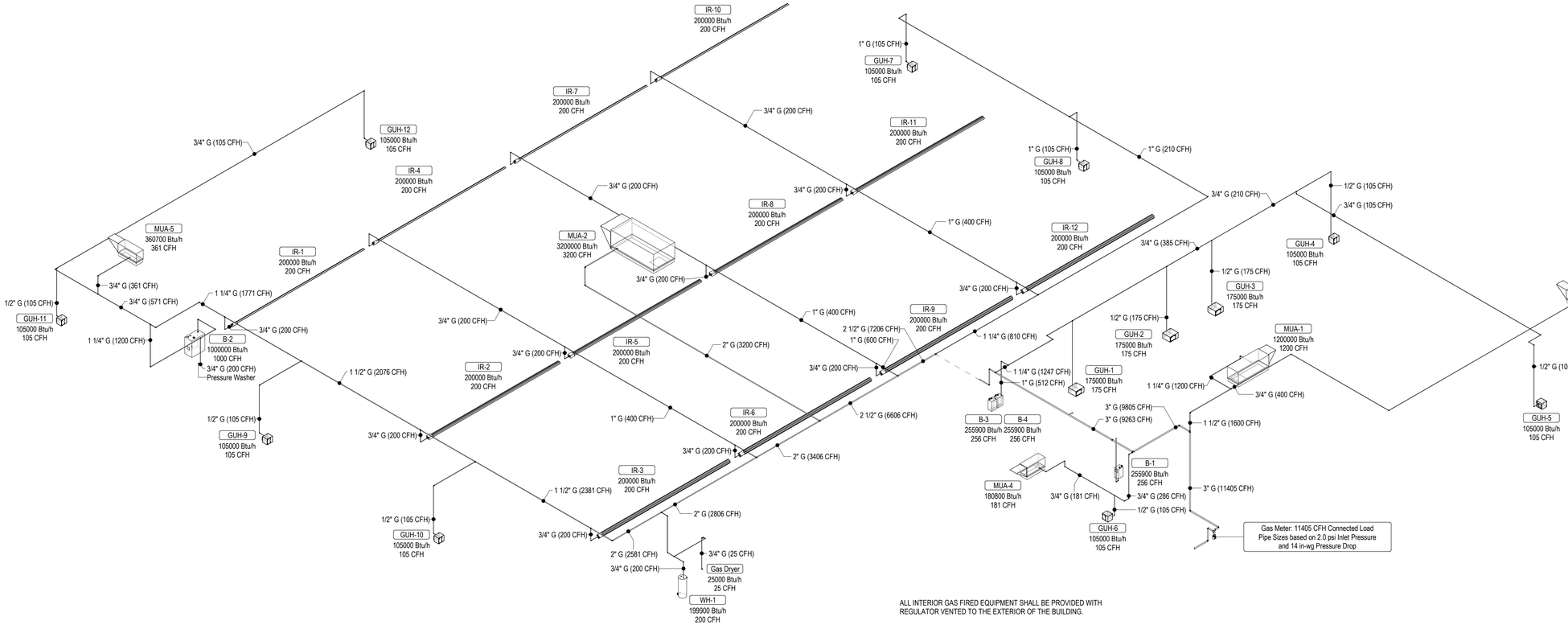
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ALL INTERIOR GAS FIRED EQUIPMENT SHALL BE PROVIDED WITH REGULATOR VENTED TO THE EXTERIOR OF THE BUILDING.

1 Gas Supply Riser Diagram

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CONSTRUCTION MANAGER

Market & Johnson
Adding Value to Everything We Do

Jackson County Highway Facility

N5579 STATE HWY 54, Black River Falls, WI 54615

REVISIONS

	DATE	DESCRIPTION

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SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
GAS RISER DIAGRAM

SHEET
M901

ELECTRICAL ABBREVIATIONS

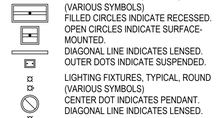
1P	1 POLE (2P, 3P, 4P, ETC.)	MAX	MAXIMUM
A, AMP	AMPERE	MAG.S	MAGNETIC STARTER
AC	ABOVE COUNTER	M/C	MOMENTARY CONTACT
ACLG	ABOVE CEILING	MC	MECHANICAL CONTRACTOR
ADO	AUTOMATIC DOOR OPENER	MCB	MAIN CIRCUIT BREAKER
AF	AMP FRAME	MCC	MOTOR CONTROL CENTER
AFC	AVAILABLE FAULT CURRENT	MDC	MAIN DISTRIBUTION CENTER
AFF	ABOVE FINISHED FLOOR	MDP	MAIN DISTRIBUTION PANEL
AFG	ABOVE FINISHED GRADE	MFR	MANUFACTURER
AFI	ARC FAULT CIRCUIT INTERRUPTER	MFS	MAIN FUSED DISCONNECT SWITCH
AHU	AIR HANDLING UNIT		
AL	ALUMINUM	MH	MANHOLE
ALT	ALTERNATE	MIC	MICROPHONE
AMP	AMPERE	MIN	MINIMUM
AMPLI	AMPLIFIER	MISC	MISCELLANEOUS
ANNUN	ANNUNCIATOR	MLO	MAIN LUGS ONLY
APPROX	APPROXIMATELY	MMS	MANUAL MOTOR STARTER
AQ-STAT	AQUASTAT	MOA	MULTIOUTLET ASSEMBLY
ARCH	ARCHITECT, ARCHITECTURAL	MSP	MOTOR STARTER PANELBOARD
AS	AMP SWITCH		
AT	AMP TRIP	MSBD	MAIN SWITCHBOARD
ATS	AUTOMATIC TRANSFER SWITCH	MSS	MOTOR STARTER SWITCH
AUTO	AUTOMATIC	MT	MOUNT
AUX	AUXILIARY	MT.C	EMPTY CONDUIT
AV	AUDIO VISUAL	MTS	MANUAL TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE	MTR	MOTOR, MOTORIZED
BATT	BATTERY	N.C.	NORMALLY CLOSED
BD	BOARD	NEC	NATIONAL ELECTRICAL CODE
BLDG	BUILDING	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
BMS	BUILDING MANAGEMENT SYSTEM		
C	CONDUIT		
CAB	CABINET	NFDS	NON-FUSED SAFETY DISCONNECT SWITCH
CAT	CATALOG		
CATV	CABLE TELEVISION	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NL	NIGHT LIGHT
CCTV	CLOSED CIRCUIT TELEVISION	N.O.	NORMALLY OPEN
CKT	CIRCUIT	NPF	NORMAL POWER FACTOR
CLG	CEILING	NTS	NOT TO SCALE
COMB	COMBINATION	OC	ON CENTER
CMPR	COMPRESSOR	OH	OVERHEAD
CONN	CONNECTION	OL	OVERLOADS
CONST	CONSTRUCTION	PA	PUBLIC ADDRESS
CONT	CONTINUATION OR CONTINUOUS	PB	PULL BOX OR PUSHBUTTON
CONTR	CONTRACTOR	PE	PNEUMATIC ELECTRIC
CONV	CONVECTOR	PED	PEDESTAL
CP	CIRCULATING PUMP	PF	POWER FACTOR
CRT	CATHODE-RAY TUBE	PH	PHASE
CT	CURRENT TRANSFORMER	PIV	POST INDICATING VALVE
CTR	CENTER	PNL	PANEL
CU	COPPER	PP	POWER POLE
DCP	DOMESTIC CIRCULATING PUMP	PR	PAIR
DEPT	DEPARTMENT	PRI	PRIMARY
DET	DETAIL	PROJ	PROJECTION
DIA	DIAMETER	PRV	POWER ROOF VENTILATOR
DISC	DISCONNECT	PT	POTENTIAL TRANSFORMER
DIST	DISTRIBUTION	PVC	POLYVINYL CHLORIDE (CONDUIT)
DN	DOWN		
DPR	DAMPER	PWR	POWER
DS	SAFETY DISCONNECT SWITCH	QUAN	QUANTITY
DT	DOUBLE THROW	RCPT	RECEPTACLE
DWG	DRAWING	REQD	REQUIRED
(E)	EXISTING TO REMAIN	RM	ROOM
EC	ELECTRICAL CONTRACTOR	RSC	RIGID STEEL CONDUIT
ELEC	ELECTRIC, ELECTRICAL	RTU	ROOF TOP UNIT
ELEV	ELEVATOR	SC	SURFACE CONDUIT
ELU	EMERGENCY LIGHTING UNIT	SCCR	SHORT CIRCUIT CURRENT RATING
EM	EMERGENCY		
EMS	ENERGY MANAGEMENT SYSTEM	SEC	SECONDARY
EMT	ELECTRICAL METALLIC TUBING	SHT	SHEET
EP	ELECTRIC PNEUMATIC	SIM	SIMILAR
EQUIP	EQUIPMENT	SLD	SINGLE-LINE DIAGRAM
EWC	ELECTRIC WATER COOLER	S/N	SOLID NEUTRAL
EXIST	EXISTING	SPEC	SPECIFICATION
EXH	EXHAUST	SPKR	SPEAKER
EXP	EXPLOSION PROOF	SP	SPARE
FA	FIRE ALARM	SPP	SINGLE-POINT POWER
FABP	FIRE ALARM BOOSTER POWER SUPPLY PANEL	SR	SURFACE RACEWAY
		SS	STAINLESS STEEL
FACP	FIRE ALARM CONTROL PANEL	SSW	SELECTOR SWITCH
FCU	FAN COIL UNIT	S/S	STOP/START PUSHBUTTONS
FIXT	FIXTURE	STA	STATION
FLR	FLOOR	STD	STANDARD
FLUOR	FLUORESCENT	SURF	SURFACE MOUNTED
FU	FUSE	SW	SWITCH
FUDS	FUSED SAFETY DISCONNECT SWITCH	SWBD	SWITCHBOARD
		SYM	SYMMETRICAL
GA	GAUGE	SYS	SYSTEM
GAL	GALLON	TEL	TELEPHONE
GALV	GALVANIZED	TERM	TERMINAL
GC	GENERAL CONTRACTOR	TL	TWIST LOCK
GEN	GENERATOR	TR	TAMPER RESISTANT
GFI	GROUND FAULT CIRCUIT INTERRUPTER	T-STAT	THERMOSTAT
		TTC	TELEPHONE TERMINAL CABINET
GFP	GROUND FAULT PROTECTOR		
GND	GROUND	TV	TELEVISION
GRS	GALVANIZED RIGID STEEL (CONDUIT)	TVTC	TELEVISION TERMINAL CABINET
GYP BD	GYPSUM BOARD	TYP	TYPICAL
HOA	HANDS-OFF-AUTOMATIC SWITCH	UC	UNDER COUNTER
HORIZ	HORIZONTAL	UE	UNDERGROUND ELECTRICAL
HP	HORSEPOWER	UG	UNDERGROUND
HPF	HIGH POWER FACTOR	UH	UNIT HEATER
HT	HEIGHT	UT	UNDERGROUND TELEPHONE
HTG	HEATING	UTIL	UTILITY
HTR	HEATER	UV	ULTRAVIOLET
HV	HIGH VOLTAGE	V	VOLT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	VA	VOLT-AMPERES
		VDT	VIDEO DISPLAY TERMINAL
IC	INTERRUPTING CAPACITY	VERT	VERTICAL
IG	ISOLATED GROUND	VFD	VARIABLE FREQUENCY DRIVE
IMC	INTERMEDIATE METAL CONDUIT	VOL	VOLUME
INCAND	INCANDESCENT	W	WATT
IR	INFRARED	W/	WITH
I/W	INTERLOCK WITH	WG	WIRE GUARD
J-BOX	JUNCTION BOX	WH	WATER HEATER
KV	KILOVOLT	W/O	WITHOUT
KVA	KILOVOLT-AMPERE	XFMR	TRANSFORMER
KVAR	KILOVOLT-AMPERE REACTIVE	XFR	TRANSFER
KW	KILOWATT	∠	ANGLE
KWH	KILOWATT HOUR	@	AT
LCP	LIGHTING CONTROL PANEL	Δ	DELTA
LOC	LOCATE OR LOCATION	'	FEET
LT	LIGHT	"	INCHES
LTG	LIGHTING	#	NUMBER
LTNG	LIGHTNING	Ø	PHASE
LV	LOW VOLTAGE	℄	CENTER LINE
		P	PLATE

ELECTRICAL SYMBOL LEGEND

LIGHTING SYMBOLS

- LIGHTING FIXTURES, TYPICAL, RECTANGULAR (VARIOUS SYMBOLS)
  FILLED CIRCLES INDICATE RECESSED.
  OPEN CIRCLES INDICATE SURFACE-MOUNTED.
  DIAGONAL LINE INDICATES LENSED.
  OUTER DOTS INDICATE SUSPENDED.
- LIGHTING FIXTURES, TYPICAL, ROUND (VARIOUS SYMBOLS)
  CENTER DOT INDICATES PENDANT.
  DIAGONAL LINE INDICATES LENSED.
  CHEVRON INDICATES WALL WASH.
- WALL-MOUNTED FIXTURES, TYPICAL (VARIOUS SYMBOLS)
- STRIP FIXTURE
- DIRECTIONAL LIGHT, TRACK LIGHT, FLOOD LIGHT
- LINEAR LIGHT, TAPE LIGHT
- EMERGENCY LIGHTING UNIT, CEILING-MOUNTED, INTEGRAL BATTERY
- EMERGENCY LIGHTING UNIT, CEILING-MOUNTED, REMOTE BATTERY
- EMERGENCY LIGHTING UNIT, WALL-MOUNTED, INTEGRAL BATTERY
- EMERGENCY LIGHTING UNIT, WALL-MOUNTED, REMOTE BATTERY
- EXIT LIGHT, CEILING-MOUNTED. SHADING AND ARROWS INDICATE FACES AND DIRECTIONAL CHEVRONS.
- EXIT LIGHT, WALL-MOUNTED. SHADING AND ARROWS INDICATE FACES AND DIRECTIONAL CHEVRONS.
- EXIT/ELU COMBO
- POLE/AREA LIGHTS
- POST-TOP AREA LIGHT
- BOLLARD LIGHT
- DIAGONAL HATCH INDICATES LIGHT ON A CRITICAL CIRCUIT.
- SOLID HATCH INDICATES LIGHT ON AN EMERGENCY OR LIFE SAFETY CIRCUIT.
- SINGLE-POLE SWITCH
- TWO-POLE SWITCH
- THREE-POLE SWITCH
  SWITCH MODIFIERS:
  3: 3-WAY OS: OCCUPANCY SENSOR
  4: 4-WAY VS: VACANCY SENSOR
  K: KEYED AC: ABOVE-COUNTER
  D: DIMMING LV: LOW-VOLTAGE
  T: TIMER M: MOTOR-RATED
- LIGHTING CONTACTOR
- LC LIGHTING CONTROL PANEL
- OS OCCUPANCY SENSOR
- DL DAYLIGHT HARVESTING SENSOR
- PRIMARY DAYLIGHT ZONE LINETYPE
- SECONDARY DAYLIGHT ZONE LINETYPE

LIGHTING TAGS



ABSENCE OF A SWITCH DESIGNATION ON A LIGHTING FIXTURE INDICATES FIXTURE IS CONTROLLED BY THE ONLY SWITCH IN THE SPACE. AN "X" IN PLACE OF THE SWITCH DESIGNATION INDICATES UNSWITCHED.

SWITCH ID INDICATED BY A LOWERCASE LETTER. SWITCH IDS ARE UNIQUE PER SPACE. A SWITCH WITH AN ID "A" CONTROLS ALL DEVICES WITHIN THE SPACE IN WHICH IT IS LOCATED TAGGED WITH "A". A SWITCH WITHOUT A TAGGED ID CONTROLS ALL LIGHTING FIXTURES WITHIN A SPACE. ID TAGS MAY BE USED ON CONTROL DEVICES OTHER THAN SWITCHES, SUCH AS OCCUPANCY SENSORS OR CONTACTORS.

GROUNDING AND LIGHTNING PROTECTION SYMBOLS

- GROUND ROD
- GROUND ROD WITH TEST WELL
- STATIC GROUND RECEPTACLE
- LIGHTNING PROTECTION AIR TERMINAL
- LIGHTNING PROTECTION CONDUCTOR SPLICE

POWER SYMBOLS

WALL CEILING FLOOR

- SIMPLEX RECEPTACLE
- DUPLEX RECEPTACLE
- QUADRUPLEX RECEPTACLE
- SPECIAL RECEPTACLE, TYPE AS INDICATED
  RECEPTACLE MODIFIERS:
  ##: HEIGHT AFF OC
  AC: ABOVE COUNTER
  AFI: ARC-FAULT CIRCUIT INTERRUPTER
  GFI: GROUND-FAULT CIRCUIT INTERRUPTER
  WP: WEATHERPROOF WHILE IN-USE COVER
  WPN: WEATHERPROOF - WHILE NOT IN USE COVER
- HALF SHADING INDICATES SPLIT (TYP. SWITCHED)
- OUTSIDE SHADING INDICATES EM CIRCUIT
- CENTER SHADING INDICATES ISOLATED GROUND
- SINGLE-POLE SWITCH
- TWO-POLE SWITCH
- THREE-POLE SWITCH
  SWITCH MODIFIERS:
  K: KEYED
  T: TIMER
  AC: ABOVE-COUNTER
  M: MOTOR-RATED
- MULTIOUTLET ASSEMBLY
  FILLED SQUARES INDICATE 120V OUTLET
  OPEN SQUARES INDICATE WITH USB
- CORD REEL
- DROP CORD
- JUNCTION BOX
- F1 FLOOR BOX, SEE SCHEDULE FOR TYPE
- EMERGENCY POWER OFF
- DO DOOR OPENER PUSH PLATE
- M POWER METER
- SAFETY SWITCH, FUSED
- SAFETY SWITCH, UNFUSED
- MOTOR STARTER
- COMBINATION STARTER/DISCONNECT
- CONTACTOR

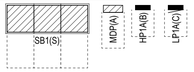
POWER DEVICE AND EQUIPMENT TAGS

- C1a ELECTRICAL DEVICETAGS: UPPERCASE LETTER(S) INDICATES PANEL ID AND CIRCUIT NUMBER. LOWERCASE LETTER INDICATES DESIGNATION OF CONTROLLING SWITCH (WHERE APPLICABLE).
- XX-1 EQUIPMENT TAGS: EQUIPMENT ID IS INDICATED BY AN UNDERLINED TAG ADJACENT TO THE EQUIPMENT. SEE THE EQUIPMENT CONNECTION SCHEDULE FOR DESCRIPTION, ELECTRICAL REQUIREMENTS, AND PANEL AND CIRCUIT NUMBER. SYMBOLS/GRAPHIC APPEARANCE OF EQUIPMENT VARIES.

WIRING

- SOLID, ARCED LINES CONNECTING EQUIPMENT, DEVICES, OR FIXTURES INDICATE UNSWITCHED POWER CIRCUITING. WIRES ARE ONLY INTENDED TO INDICATE TO WHAT CIRCUIT DEVICES ARE CONNECTED. ACTUAL CONNECTIONS, CIRCUIT ROUTING, INSTALLTION, JUNCTION BOXES, ETC. SHALL BE FIELD-DETERMINED BY THE CONTRACTOR.
- DASHED, ARCED LINES CONNECTING EQUIPMENT, DEVICES, OR FIXTURES INDICATE SWITCHED POWER.
- HOME RUN TO BRANCH CIRCUIT PANELBOARD. THE EQUIPMENT NAME AND CIRCUIT NUMBER(S) ARE INDICATED, SEPARATED BY A HYPHEN. HOMERUNS ARE ONLY INTENDED TO INDICATE PANEL AND CIRCUIT NUMBER. ACTUAL HOMERUN LOCATION SHALL BE FIELD-DETERMINED BY THE CONTRACTOR.

POWER DISTRIBUTION EQUIPMENT



HATCHED FILL INDICATES DISTRIBUTION PANEL OR SWITCHBOARD. SOLID FILL INDICATES BRANCH PANEL OR LOAD CENTER. DASHED BOX INDICATES CODE-REQUIRED CLEARANCE (WIDTH AND DEPTH). DOOR INDICATES FRONT OF RECESSED PANEL.

NOMENCLATURE EXAMPLE:

DHR1= DISTRIBUTION, "HIGH" VOLTAGE 480/277, RECEPTACLES, EQUIPMENT 1
DHLM1 = DISTRIBUTION, "HIGH" VOLTAGE 480/277, LIGHTING, MEZZANINE LEVEL, EQUIPMENT 1
HLXM1 = "HIGH" VOLTAGE (480/277), LIGHTING EXTERIOR, MEZZANINE LEVEL, EQUIPMENT 1

D = DISTRIBUTION
H = "HIGH" VOLTAGE (480/277)
L = "LOW" VOLTAGE (208/120)
R = RECEPTACLES
P = MISCELLANEOUS POWER
L = LIGHTING
X = EXTERIOR
H = HVAC
M = MEZZANINE

- T1 TRANSFORMER: TYPICALLY TRANSFORMER NAMES BEGIN WITH OR CONTAIN THE LETTER "T". SEE SINGLE-LINE DIAGRAM FOR DESCRIPTION AND REQUIREMENTS.

TELECOM SYMBOLS

WALL CEILING FLOOR

- DATA OUTLET
- TELEPHONE OUTLET
- DATA/TELEPHONE OUTLET
  OUTLET MODIFIERS:
  ##': HEIGHT AFF OC
  AC: ABOVE COUNTER
- WIRELESS ACCESS POINT
- TV OUTLET

SECURITY SYMBOLS

- SECURITY CAMERA
  PTZ: PAN/TILT/ZOOM
- CR CARD READER
- CK CARD READER WITH KEYPAD
- CC CLOSED CIRCUIT TV OUTLET
- DC DOOR CONTACT
- ES ELECTRIC STRIKE
- IC INTERCOM
- ML MAGNETIC LOCK
- RX REQUEST TO EXIT BUTTON
- REX REQUEST TO EXIT SENSOR
- MD MOTION DETECTOR
- XXX SECURITY CONTROL UNIT
  SCP: SECURITY CONTROL PANEL
  SPS: SECURITY POWER SUPPLY UNIT

CONSTRUCTION PHASING

(TYPICAL ALL SYMBOLS AND EQUIPMENT)

- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- NEW
- EXISTING TO BE DEMOLISHED

MISCELLANEOUS

- AREA NOT IN CONTRACT
- # KEYNOTE
- 1 / E100 CALLOUT:
  TOP VALUE: DETAIL NUMBER ON SHEET
  BOTTOM VALUE: SHEET NUMBER OF DETAIL
- Room / 3 ROOM NAME AND NUMBER

FIRE ALARM SYMBOLS

- F MANUAL PULL STATION
- F HORN, WALL
- F HORN, CEILING
- STROBE, WALL, CANDELA AS INDICATED
- STROBE, CEILING, CANDELA AS INDICATED
- HORN/STROBE, WALL, CANDELA AS INDICATED
- SPEAKER/STROBE, WALL, CANDELA AS INDICATED
- HORN/STROBE, CEILING, CANDELA AS INDICATED
- REMOTE INDICATOR W/ TEST SWITCH, WALL
- REMOTE INDICATE W/ TEST SWITCH, CEILING
- SMOKE DETECTOR
- HEAT DETECTOR
- CO CARBON MONOXIDE DETECTOR
- BEAM DETECTOR T: TRANSMITTER R: RECEIVER
- COMBINATION DETECTOR (UP TO THREE)
- DUCT SMOKE DETECTOR
- SMOKE DAMPER
- DH DOOR HOLDER
- DCL DOOR CLOSER
- FIRE SERVICE PHONE
- XXX ADDRESSABLE MODULE
  AIM: ADDRESSIBLE INPUT MODULE
  AOM:ADDRESSIBLE OUTPUT CONTROL MODULE
  AIO: ADDRESSIBLE INPUT/OUTPUT MODULE
- XXXX FIRE ALARM CONTROL UNIT
  EVAC: VOICE EVACUATION CONTROL PANEL
  FAA: FIRE ALARM ANNUNCIATOR
  FACP: FIRE ALARM CONTROL PANEL
  FATC: FIRE ALARM TERMINAL CABINET
  NACP: NOTIFICATION APPLIANCE CIRCUIT PANEL
  FAMN: FIRE ALARM MASS NOTIFICATION CONTROL PANEL
- XX SUPERVISORY OR INTERFACE DEVICE
  PIV: POST INDICATOR VALVE SUPERVISORY
  PS: PRESSURE SWITCH
  R: NON-ADDRESSIBLE RELAY
  VS: VALVE SUPERVISORY SWITCH
  WF: WATER FLOW SWITCH

ELECTRICAL SHEET LIST

E000	ELECTRICAL TITLE SHEET
E001	ELECTRICAL SITE PLAN
E100	OVERALL POWER PLAN
E101	FIRST FLOOR POWER PLAN - AREA A
E102	FIRST FLOOR POWER PLAN - AREA B
E103	FIRST FLOOR POWER PLAN - AREA C
E104	FIRST FLOOR POWER PLAN - AREA D
E106	ELECTRICAL PLAN - VEHICLE COLD STORAGE
E107	ELECTRICAL PLAN - EQUIPMENT COLD STORAGE
E120	ROOF POWER PLAN
E200	OVERALL LIGHTING PLAN
E201	FIRST FLOOR LIGHTING PLAN - AREA A
E202	FIRST FLOOR LIGHTING PLAN - AREA B
E203	FIRST FLOOR LIGHTING PLAN - AREA C
E204	FIRST FLOOR LIGHTING PLAN - AREA D
E300	OVERALL SYSTEMS PLAN
E301	FIRST FLOOR SYSTEMS PLAN - AREA A
E302	FIRST FLOOR SYSTEMS PLAN - AREA B
E303	FIRST FLOOR SYSTEMS PLAN - AREA C
E304	FIRST FLOOR SYSTEMS PLAN - AREA D
E305	ROOF SYSTEMS PLAN
E501	ELECTRICAL DETAILS
E502	ELECTRICAL DETAILS
E801	ELECTRICAL SCHEDULES
E802	ELECTRICAL SCHEDULES
E803	PANEL SCHEDULES
E804	PANEL SCHEDULES
E805	PANEL SCHEDULES
E806	PANEL SCHEDULES
E807	PANEL SCHEDULES
E808	PANEL SCHEDULES
E809	PANEL SCHEDULES
E901	ELECTRICAL DIAGRAMS
GRAND TOTAL: 33	

GENERAL NOTES

A. CONDUCTORS OPERATING AT 50 VOLTS OR GREATER SHALL BE IN RACEWAY. RACEWAY WITHIN THE STRUCTURE ABOVE THE FLOOR SLAB SHALL BE METAL. RACEWAY BELOW THE FLOOR SLAB AND UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC.
B. LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY WHERE INSTALLED WITHIN WALLS, AREAS SUBJECT TO DAMAGE, OR INACCESSIBLE SPACES. LOW VOLTAGE CABLE SHALL BE PLENUM RATED IN PLENUM SPACES.
C. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND DETAILS. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.
D. PROVIDE CABLE OR CONDUIT AND WIRE AS REQUIRED TO ACHIEVE CIRCUITING SHOWN. SIZE CONDUCTORS PER NEC AMPACITY AND WIRE FILL CRITERIA. PROVIDE DEDICATED NEUTRAL AND GROUND CONDUCTORS FOR CIRCUITING. UNLESS NOTED OTHERWISE. INCREASE BRANCH CIRCUIT AND/OR FEEDER CONDUCTORS INCLUDING EQUIPMENT GROUNDING CONDUCTORS PROPORTIONALLY FOR A MAXIMUM OF 5% VOLTAGE DROP TOTAL PER ENERGY CODE.
E. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS AND THOSE REQUIRING ELECTRICAL CONNECTIONS TO MAINTAIN NEC REQUIRED CLEARANCES, INCLUDED BUT NOT LIMITED TO AREAS ABOVE ACCESSIBLE CEILINGS.
F. COORDINATE WITH OTHER TRADES FOR PROPER INSTALLATION OF EQUIPMENT. CONSULT THE DRAWINGS OF OTHER TRADES OR CRAFTS TO AVOID CONFLICTS WITH EQUIPMENT, ETC. CONFLICTS SHALL BE RESOLVED PRIOR TO ROUGH-IN AND AT NO ADDITIONAL COST TO THE OWNER.
G. LEAVE THE SITE CLEAN AND READY FOR OCCUPANCY. REMOVE DIRT, DEBRIS, EMPTY CARTONS, TOOLS, CONDUIT AND WIRE SCRAPS, AND MISCELLANEOUS SPARE EQUIPMENT AND MATERIALS USED IN THIS DIVISION OF THE WORK DURING CONSTRUCTION. COMPONENTS SHALL BE FREE OF DUST, GRIT, AND FOREIGN MATERIALS AND LEFT AS NEW BEFORE FINAL ACCEPTANCE OF WORK.
H. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.
I. PERFORM WORK TO COMPLY WITH THE STANDARD PRACTICES FOR GOOD WORKMANSHIP PUBLISHED BY NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA). COMPLY WITH THE LATEST ENFORCED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), LOCAL CODES, AMENDMENTS, AND ORDINANCES.
J. FIELD COORDINATE FINAL MECHANICAL AND EQUIPMENT LOCATIONS ALONG WITH CONNECTION REQUIREMENTS AND CONTROL WIRING PRIOR TO ROUGH-IN. ADJUST CORRESPONDING CIRCUIT BREAKER RATINGS AND BRANCH CIRCUITING ACCORDINGLY.
K. ELECTRICAL WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF A LICENSED MASTER ELECTRICIAN. PROCURE PERMITS AND LICENSES AND PAY FEES ASSOCIATED WITH THIS WORK.
L. MATERIALS FURNISHED FOR THIS PROJECT SHALL BE NEW, COMMERCIAL GRADE, FREE OF DEFECTS, AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY UNLESS NOTED OTHERWISE.
M. PROVIDE COMPLETE OPERATION & MAINTENANCE MANUAL INCLUDING APPROVED SUBMITTAL DRAWINGS, WARRANTY INFORMATION FOR PRODUCT SUPPLIED, AND MANUFACTURES OPERATION AND MAINTENANCE INSTRUCTIONS.
N. THE CONTRACTOR IS RESPONSIBLE FOR MAKING FINAL WIRING TERMINATIONS TO PRE-INSTALLED RECEPTACLES IN OFFICE FURNITURE. CONTRACTOR IS RESPONSIBLE FOR WIRING AND INSTALLING VOICE/DATA DEVICES IN OFFICE FURNITURE. COORDINATE PLACEMENT OF DEVICES WITH FURNITURE LAY-OUT.
O. SECURITY SYSTEM TO BE PROVIDED UNDER SEPARATE CONTRACT. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE CONDUIT PROVISIONS, BACK BOXES, ROUGH-INS, SLEEVES AND POWER TO HEAD END EQUIPMENT FOR EXACT REQUIREMENTS PRIOR TO START OF WORK.
P. CONDUIT AND WIRE SHALL NOT BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUIT.
Q. CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ELECTRICAL ITEMS SHOWN ON DRAWINGS EXCEPT FOR ITEMS LISTED IN NOTE 'S' BELOW.
R. TV OUTLETS, VOLUME CONTROLS, TELEPHONE OUTLETS, DATA OUTLETS, AND FIRE ALARM DEVICES SHALL CONSIST OF A BACK BOX WITH CONDUIT STUBBED ABOVE THE ACCESSIBLE CEILING, SEE STUB UP DETAIL. VERIFY SIZE OF BACK BOX REQUIRED WITH DEVICE TO BE INSTALLED. LOCATE BACK BOXES 6" FROM ADJACENT POWER RECEPTACLE INTENDED FOR COMPUTER USE.
S. FURNISH AND INSTALL CONDUIT FROM BACK BOXES FOR THE FOLLOWING DEVICES INTO THE ACCESSIBLE CEILING SPACE IN THE CORRIDOR, OR TO ABOVE STRUCTURE BEARING ELEVATION IN AREAS WITHOUT A CEILING, UNLESS NOTED OTHERWISE:
   1-1/2"C TV OUTLETS
   1/2"C VOLUME CONTROLS
   1/2"C DOOR SECURITY DEVICES (CARD READERS, DOOR STRIKES ETC.)
   3/4"C TELEPHONE OUTLETS
   3/4"C INFORMATION OUTLETS
   3/4"C FIRE ALARM DEVICES
   3/4"C SECURITY CAMERAS

FIRE RATING NOTES

A. PENETRATIONS IN WALLS REQUIRING PROTECTION BE FIRESTOPPED WITH AN APPROVED MATERIAL.
B. CONDUITS MAY PENETRATE WALLS OR PARTITIONS, PROVIDED THEY ARE FIRESTOPPED.
C. OPENINGS FOR STEEL ELECTRICAL BOXES NOT EXCEEDING 16 SQUARE INCHES ARE PERMITTED PROVIDED OPENINGS DO NOT AGGREGATE MORE THAN 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL OR PARTITION.
D. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.
E. LIGHT FIXTURES AND OTHER APPARATUS SUPPORTED BY THE ACOUSTICAL CEILING GRID MUST MEET THE REQUIREMENTS OF NEC SECTION 410.16, MEANS OF SUPPORT.
F. RECESSED LIGHTING FIXTURES INSTALLED IN FIRE RATED CEILING ASSEMBLIES SHALL BE FIRE RATED FIXTURES BEARING THE UL FIRE RATED LABEL. FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE UL FIRE RESISTANCE DIRECTORY, AND SHALL INCLUDE A FIRE RATED ENCLOSURE INSTALLED OVER THE FIXTURE THAT MEETS THE REQUIREMENTS OF THE UL FIRE RESISTANCE DIRECTORY.

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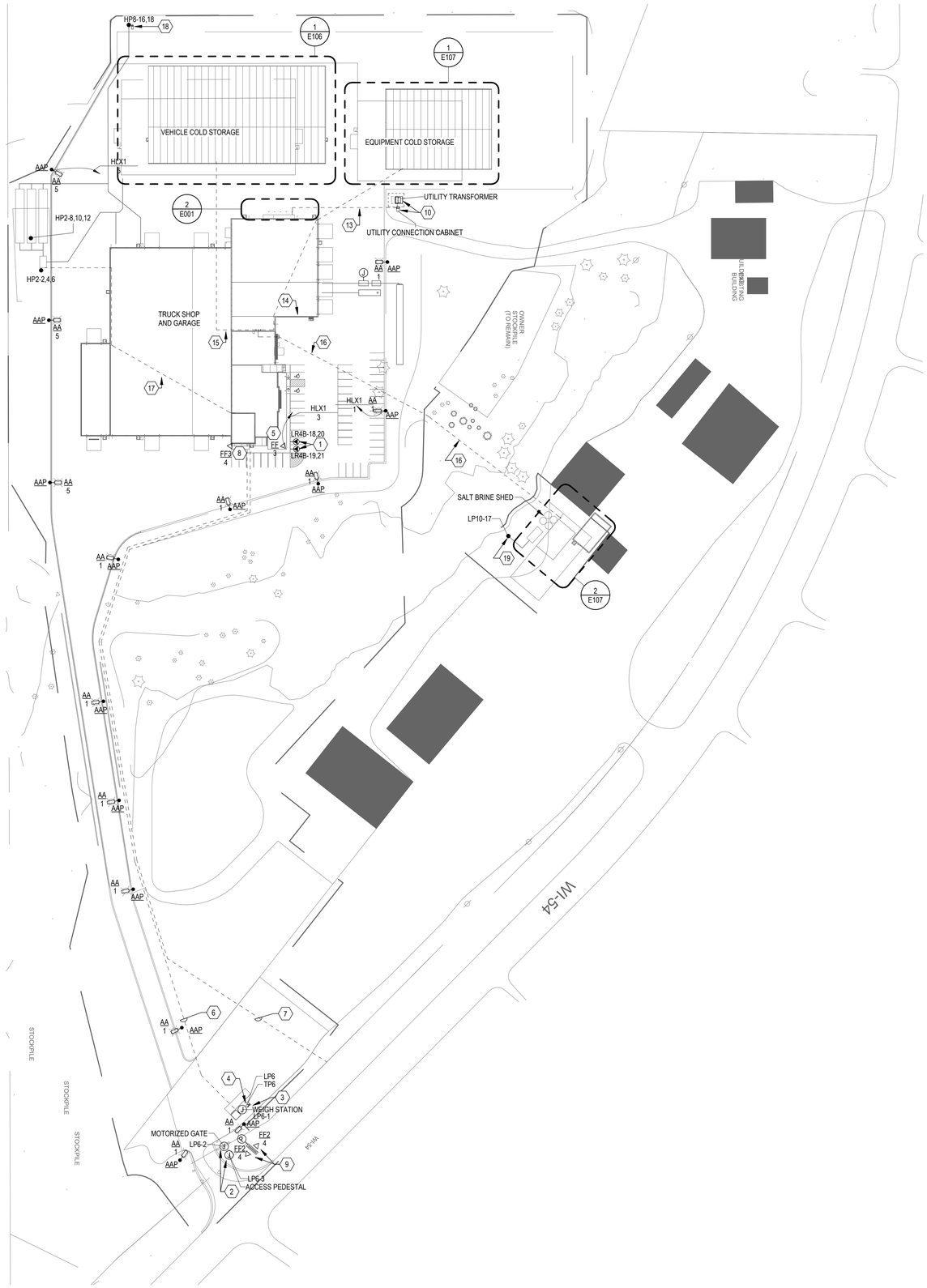
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
ELECTRICAL TITLE SHEET

SHEET
E000



PROJECT NORTH

W E S

1 ELECTRICAL SITE PLAN

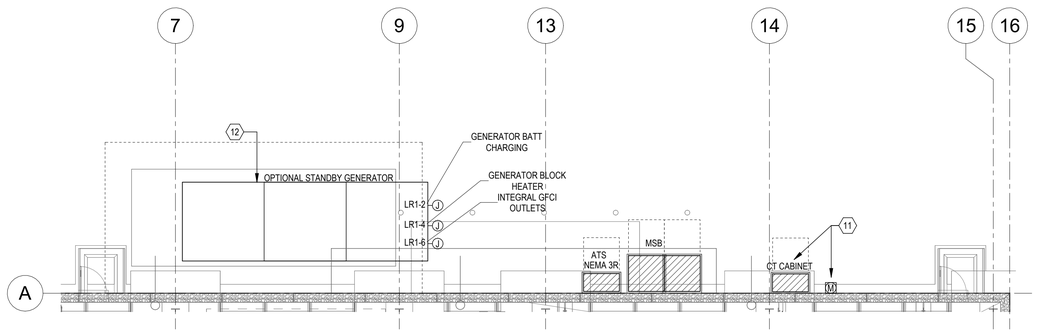
1" = 80'-0"

SITE SHEET NOTES

A. ALL LIGHTING AND POWER CONDUCTORS SHALL BE INSTALLED BETWEEN 24" (MINIMUM) AND 36" (MAXIMUM) BELOW FINISHED GRADE.
B. ALL COMMUNICATIONS CONDUIT AND CABLES SHALL BE INSTALLED 36" (MINIMUM) BELOW FINISHED GRADE.
C. ALL CONDUCTORS FOR EXTERIOR LIGHTING AND POWER CIRCUITS SHALL BE #10 AWG MINIMUM.

KEYNOTES

1 PROVIDE 1" CONDUIT WITH 208V/1PH POWER CONNECTION, FROM ELECTRICAL PANEL, THROUGH BUILDING EXTERIOR, UNDERGROUND, AND STUBBED UP AND PROTECTED FROM THE ELEMENTS, IN PARKING AREA FOR FUTURE EV CHARGING. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.
2 PROVIDE 120V POWER CONNECTION, CONDUIT, CABLING AND CONTROLS TO MOTORIZED SECURITY GATE LOCATION AND ASSOCIATED CONTROLS/ACCESS PEDESTAL. INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
3 PROVIDE 120V POWER CONNECTION, CONDUIT, CABLING AND CONTROLS TO TRUCK WEIGH STATION. INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
4 PROVIDE UNISTRUT STAND MOUNTED PANEL AND CONCRETE PAD FOR NEMA 3R DRY TYPE TRANSFORMER AS INDICATED TO FEED MISCELLANEOUS SITE POWER LOADS.
5 EXTERIOR FIXTURE FOR FLAGPOLE LIGHT. COORDINATE INSTALLATION WITH FLAGPOLE INSTALLATION.
6 PROVIDE (2) 4" CONDUIT FOR FIBER OPTIC CABLE FROM MAIN BUILDING IT ROOM TO TRUCK WEIGH STATION. DO NOT EXCEED 180 DEGREES IN CONDUIT BENDS THROUGHOUT RUN. PROVIDE LONG SWEEP 90`S.
7 PROVIDE (2) 4" SCHEDULE 40 PVC CONDUIT FROM MAIN BUILDING IT ROOM TO PROPERTY LINE. DO NOT EXCEED 180 DEGREES IN CONDUIT BENDS THROUGHOUT RUN. PROVIDE LONG SWEEP 90`S.
8 PROVIDE EXTERIOR LIGHT FIXTURE FOR LIGHTING BUILDING SIGNAGE. COORDINATE MOUNTING AND AIMING WITH ARCHITECTURAL ELEVATIONS AND SIGNAGE INSTALLATION.
9 PROVIDE EXTERIOR LIGHT FIXTURES FOR LIGHTING SITE SIGNAGE WITH LOCAL PHOTOCELL CONTROL. COORDINATE MOUNTING AND AIMING WITH ARCHITECTURAL PLANS AND ELEVATIONS AND SIGNAGE INSTALLATION.
10 PROVIDE CONDUIT AND WIRE FROM UTILITY TRANSFORMER TO CT/METERING CABINET. UTILITY TO PROVIDE AND INSTALL PRIMARY CABLE, TRANSFORMER, AND TRANSFORMER PAD. COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS WITH UTILITY PRIOR TO ROUGH-IN. SEE ONE-LINE FOR ADDITIONAL INFORMATION.
11 PROVIDE CT/METERING CABINET AND INSTALL UTILITY-PROVIDED CT, PT, AND METER. COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS WITH UTILITY PRIOR TO ROUGH-IN. SEE ONE-LINE FOR ADDITIONAL INFORMATION.
12 PROVIDE DIESEL GENSET EQUAL TO GENERAC SD DIESEL FUELED GENERATOR. COORDINATE LOCATION AND INSTALLATION WITH MANUFACTURER REQUIREMENTS, SPECIFICATIONS, SINGLE LINE DIAGRAM, CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND PLUMBING PLANS. COORDINATE INSTALLATION OF CONCRETE PAD WITH STRUCTURAL AND GROUNDING OF PAD WITH CIVIL. PROVIDE ALL AUXILIARY CONNECTIONS, PARTS AND PIECES, FOR A FULLY OPERATIONAL STANDBY SYSTEM.
13 PROVIDE CONDUIT AND WIRE FROM UTILITY CONNECTION CABINET TO SWITCHGEAR "MSB" AND ENCASE CONDUIT IN CONCRETE. REFER TO SINGLE LINE DIAGRAM FOR SIZING.
14 APPROXIMATE ROUTING OF CONDUIT AND CONDUCTORS FOR PANEL HP9.
15 APPROXIMATE ROUTING OF CONDUIT AND CONDUCTORS FOR PANEL HP8.
16 APPROXIMATE ROUTING OF CONDUIT AND CONDUCTORS FOR PANEL HP10.
17 PROVIDE 1 1/2" CONDUIT FROM FIRE ALARM CONTROL PANEL TO FIRE PUMP HOUSE.
18 PROVIDE 10kVA, 480-120V, SINGLE PHASE TRANSFORMER IN A NEMA 3R ENCLOSURE FOR WELL PUMP. PROVIDE ELECTRICAL CONNECTIONS TO WELL PUMP PROVIDED BY OTHERS.
19 PROVIDE POWER CONNECTIONS TO WELL PUMP PROVIDED BY OTHERS.



PROJECT NORTH

W E S

2 ELECTRICAL SITE PLAN - CALLOUT

1/8" = 1'-0"

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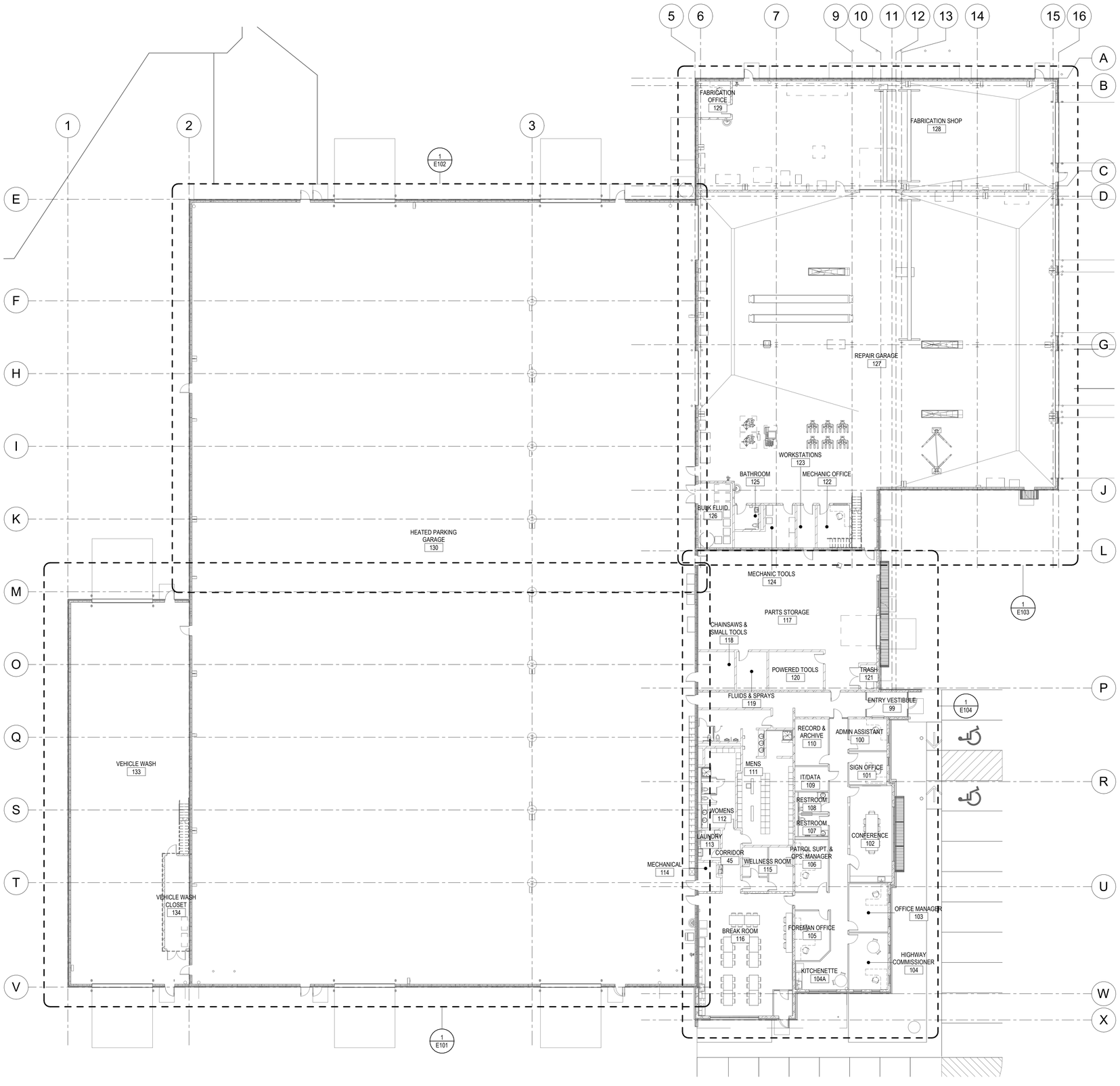
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
ELECTRICAL SITE PLAN

SHEET
E001



PROJECT NORTH

W E S

1 OVERALL POWER PLAN

1/16" = 1'-0"

POWER SHEET NOTES

A. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
B. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT UNLESS INDICATED OTHERWISE. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT.
C. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
D. PROVIDE THE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
E. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
F. CONTROLLED OUTLETS SHALL BE SPLIT WIRED, AND SHALL BE CONTROLLED VIA LOCAL ROOM OCCUPANCY SENSORS.
G. COORDINATE NEMA OUTLET RATINGS WITH FINAL EQUIPMENT SELECTION REQUIREMENTS.
H. COORDINATE ALL EQUIPMENT OUTLETS WITH FINAL EQUIPMENT INSTALLATION LOCATIONS PRIOR TO ROUGH IN. SEE ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL INFORMATION.

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50923

DATE
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SHEET TITLE
OVERALL POWER PLAN

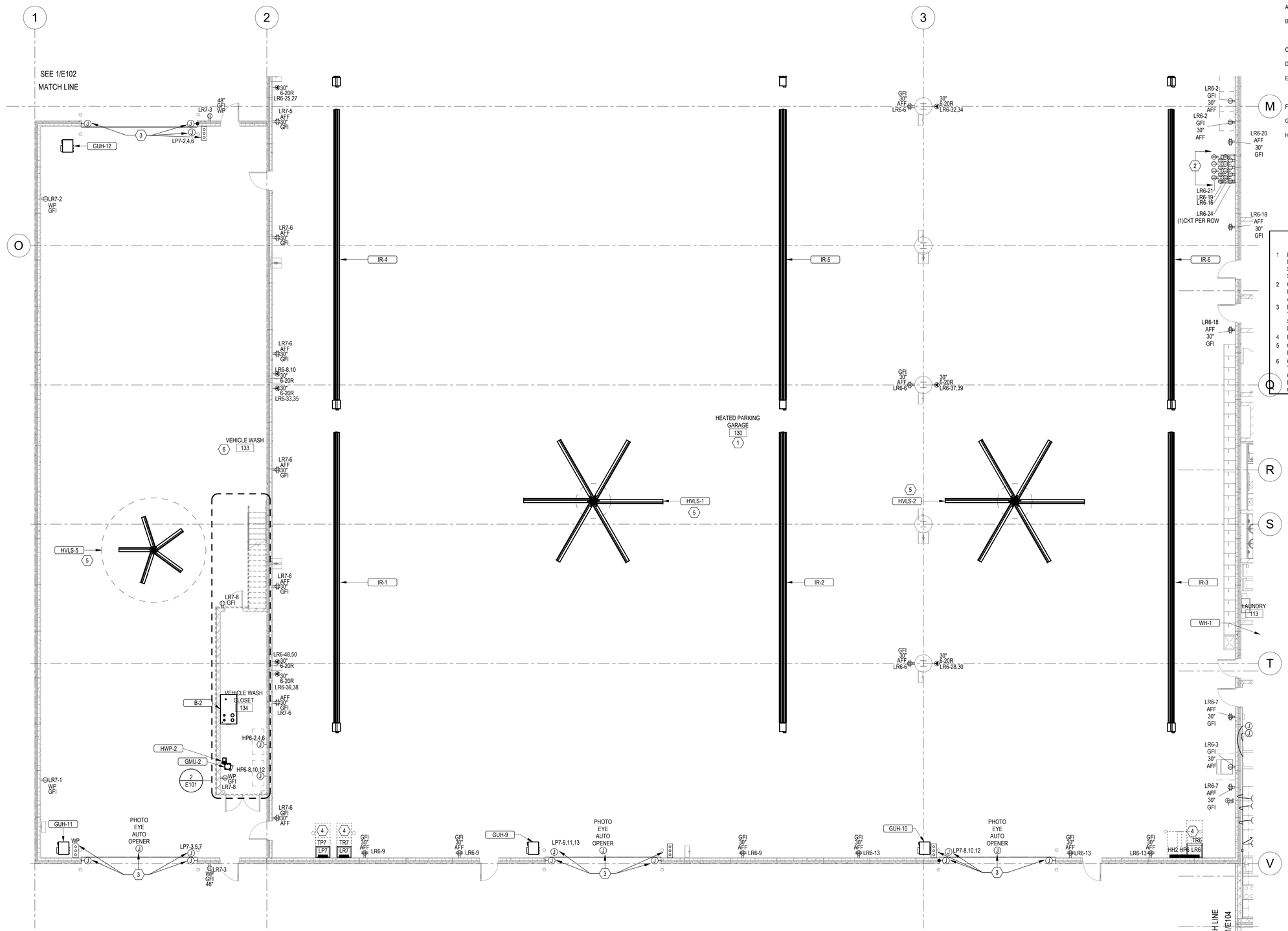
SHEET
E100

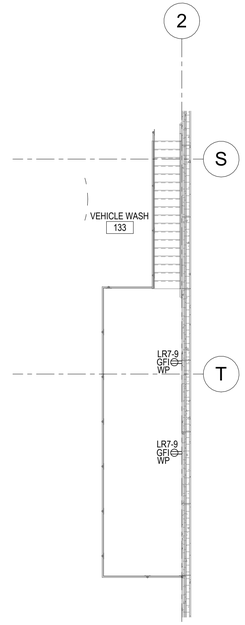
POWER SHEET NOTES

A. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
B. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT UNLESS INDICATED OTHERWISE. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT.
C. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
D. PROVIDE THE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
E. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
F. CONTROLLED OUTLETS SHALL BE SPLIT WIRED, AND SHALL BE CONTROLLED VIA LOCAL ROOM OCCUPANCY SENSORS.
G. COORDINATE NEMA OUTLET RATINGS WITH FINAL EQUIPMENT SELECTION REQUIREMENTS.
H. COORDINATE ALL EQUIPMENT OUTLETS WITH FINAL EQUIPMENT INSTALLATION LOCATIONS PRIOR TO ROUGH IN. SEE ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL INFORMATION.

KEYNOTES

1 HEATED PARKING GARAGE AREA IS CLASSIFIED AS CLASS 1, DIV 2 UP TO 18" AFF. INSTALL ALL RECEPTACLES AT 30" AFF OR HIGHER AND INSTALL ALL PANELBOARDS SO THAT THE BOTTOM OF THE PANEL IS AT LEAST 30" AFF. PROVIDE CONDUIT AND SEALANTS APPROPRIATE FOR CLASSIFICATION.
2 COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF CHARGING STATION OUTLETS FOR PORTABLE LIGHTS AND RADIOS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND MILLWORK INSTALLATION.
3 PROVIDE POWER AND LOW VOLTAGE CONNECTIONS TO OVERHEAD DOOR SYSTEM. THIS INCLUDES BUT IS NOT LIMITED TO OPERATOR, PUSH BUTTONS, PHOTOEYE SENSORS, AND LOCAL DISCONNECT. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.
4 PROVIDE TRANSFORMER OVERHEAD.
5 CEILING FAN AND LIGHT FIXTURES SHALL BE MOUNTED AT THE SAME HEIGHT ABOVE FINISHED FLOOR, TO MITIGATE STROBE EFFECT.
6 COORDINATE FINAL VEHICLE AND UNDERBODY TRUCK WASH INSTALLATION PRIOR TO ROUGH-IN TO INCLUDE MASTER CONTROL PANEL CONDUITS, CONDUCTORS, CONTROLS AND LOCATION, RECEIVER AND SENDER PHOTO EYE CONDUITS AND LOCATIONS, AND TRAFFIC LIGHT MOUNTING LOCATIONS AND CONTROLS FOR A COMPLETE OPERATIONAL SYSTEM.





PROJECT NORTH
W E S

1 FIRST FLOOR POWER PLAN - AREA A
1/8" = 1'-0"

2 MEZZANINE POWER PLAN - AREA A
1/8" = 1'-0"

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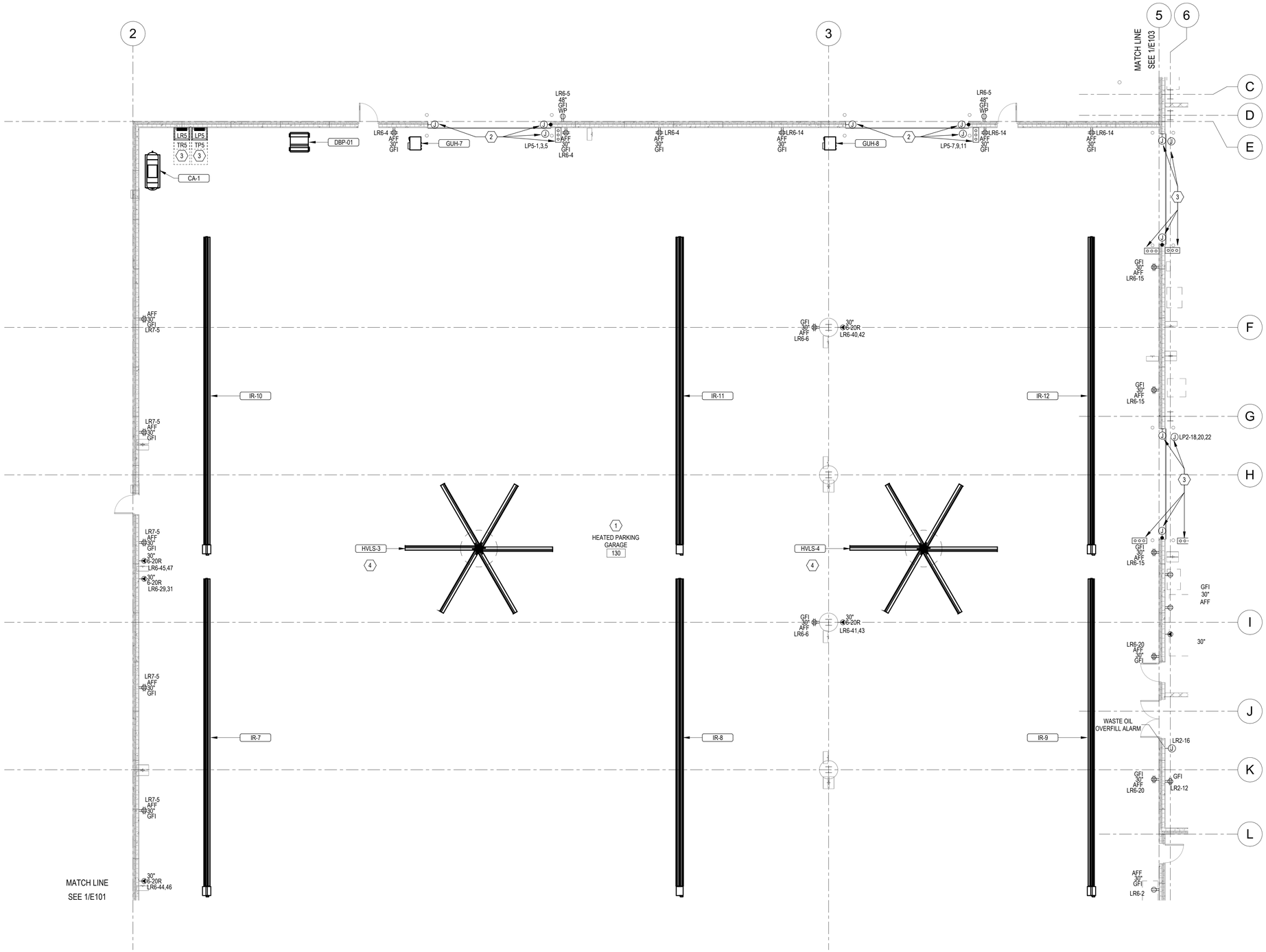
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BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
FIRST FLOOR POWER PLAN - AREA A

SHEET
E101



POWER SHEET NOTES

A. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
B. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT UNLESS INDICATED OTHERWISE. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT.
C. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
D. PROVIDE THE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
E. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
F. CONTROLLED OUTLETS SHALL BE SPLIT WIRED, AND SHALL BE CONTROLLED VIA LOCAL ROOM OCCUPANCY SENSORS.
G. COORDINATE NEMA OUTLET RATINGS WITH FINAL EQUIPMENT SELECTION REQUIREMENTS.
H. COORDINATE ALL EQUIPMENT OUTLETS WITH FINAL EQUIPMENT INSTALLATION LOCATIONS PRIOR TO ROUGH IN. SEE ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL INFORMATION.

KEYNOTES

1 HEATED PARKING GARAGE AREA IS CLASSIFIED AS CLASS 1, DIV 2 UP TO 18" AFF. INSTALL ALL RECEPTACLES AT 30" AFF OR HIGHER AND INSTALL ALL PANELBOARDS SO THAT THE BOTTOM OF THE PANEL IS AT LEAST 30" AFF. PROVIDE CONDUIT AND SEALANTS APPROPRIATE FOR CLASSIFICATION.
2 PROVIDE POWER AND LOW VOLTAGE CONNECTIONS TO OVERHEAD DOOR SYSTEM AS REQUIRED. THIS INCLUDES BUT IS NOT LIMITED TO OPERATOR, PUSH BUTTONS, PHOTOEYE SENSORS, AND LOCAL DISCONNECT. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.
3 PROVIDE TRANSFORMER OVERHEAD.
4 CEILING FAN AND LIGHT FIXTURES SHALL BE MOUNTED AT THE SAME HEIGHT ABOVE FINISHED FLOOR, TO MITIGATE STROBE EFFECT.

PROJECT NORTH
W E S

1 FIRST FLOOR POWER PLAN - AREA B
1/8" = 1'-0"

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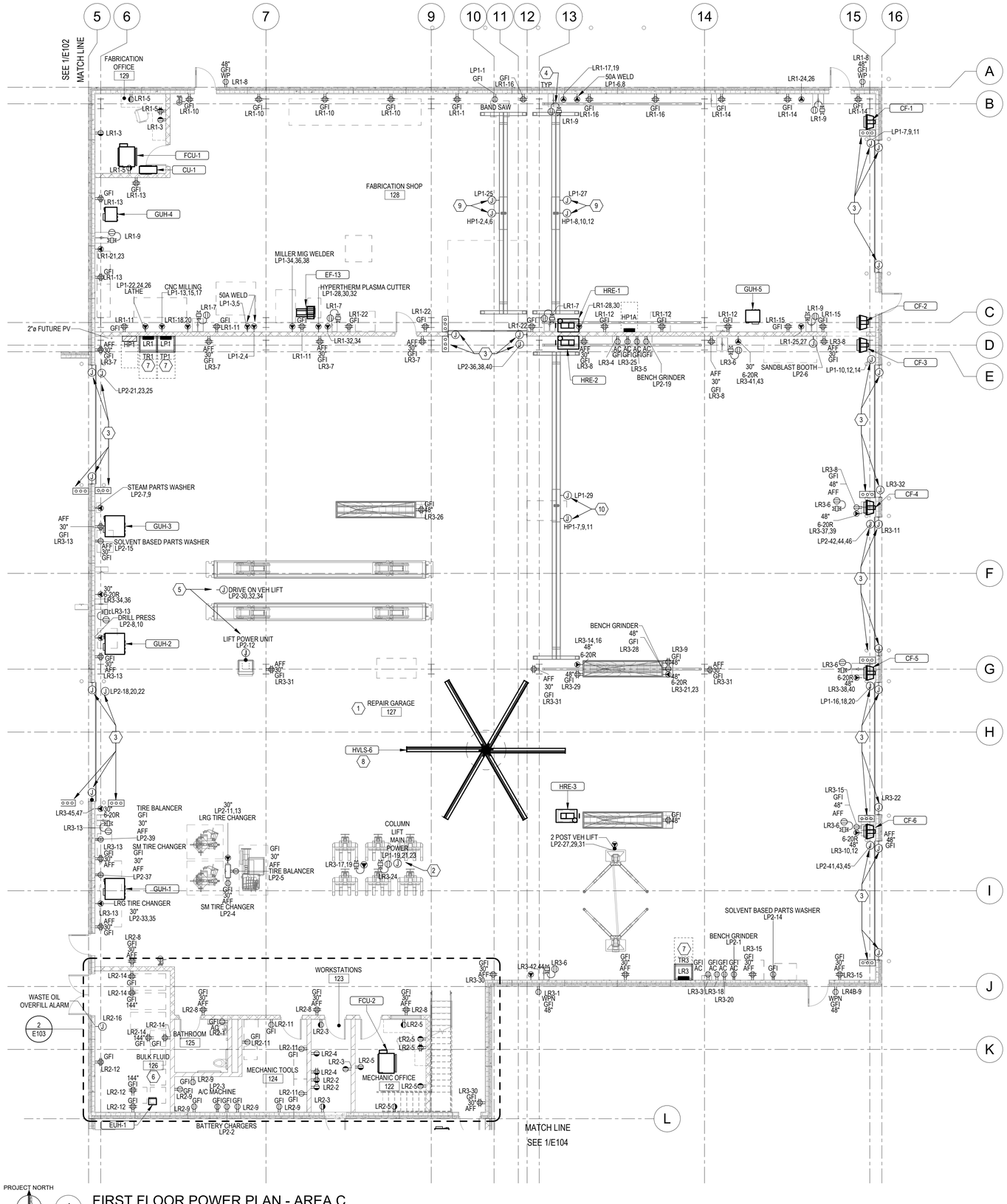
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DATE
06.22.2026

SHEET TITLE
FIRST FLOOR POWER PLAN - AREA B

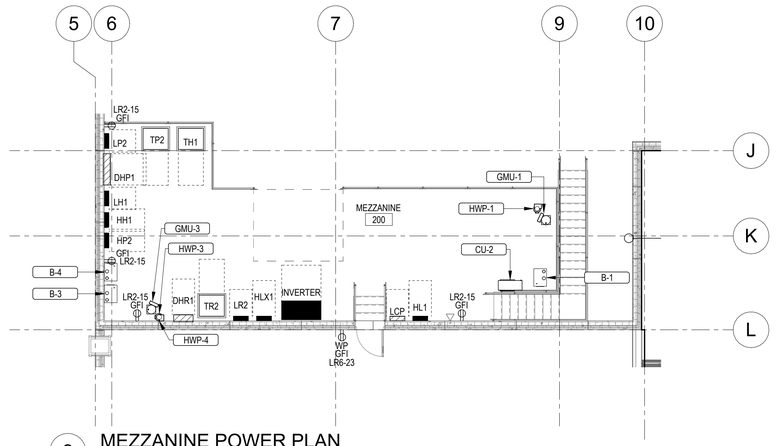
SHEET
E102



PROJECT NORTH

1 FIRST FLOOR POWER PLAN - AREA C

1/8" = 1'-0"



2 MEZZANINE POWER PLAN

1/8" = 1'-0"

POWER SHEET NOTES

A. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
B. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT UNLESS INDICATED OTHERWISE. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT.
C. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
D. PROVIDE THE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
E. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
F. CONTROLLED OUTLETS SHALL BE SPLIT WIRED, AND SHALL BE CONTROLLED VIA LOCAL ROOM OCCUPANCY SENSORS.
G. COORDINATE NEMA OUTLET RATINGS WITH FINAL EQUIPMENT SELECTION REQUIREMENTS.
H. COORDINATE ALL EQUIPMENT OUTLETS WITH FINAL EQUIPMENT INSTALLATION LOCATIONS PRIOR TO ROUGH IN. SEE ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL INFORMATION.

KEYNOTES

1 REPAIR GARAGE AREA IS CLASSIFIED AS CLASS 1, DIV 2 UP TO 18" AFF. INSTALL ALL RECEPTACLES AT 30" AFF OR HIGHER AND INSTALL ALL PANELBOARDS SO THAT THE BOTTOM OF THE PANEL IS AT LEAST 30" AFF. PROVIDE CONDUIT AND SEALANTS APPROPRIATE FOR CLASSIFICATION.

2 PROVIDE 208V/3P POWER CONNECTION FOR MAIN POWER COLUMN IN COLUMN LIFT SYSTEM. COORDINATE FINAL CONNECTION REQUIREMENTS AND LOCATION WITH MANUFACTURER INSTALLATION INSTRUCTIONS.

3 PROVIDE POWER AND LOW VOLTAGE CONNECTIONS TO OVERHEAD DOOR SYSTEM. THIS INCLUDES BUT IS NOT LIMITED TO OPERATOR, PUSH BUTTONS, PHOTOEYE SENSORS, AND LOCAL DISCONNECT. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.

4 PROVIDE WET LISTED RETRACTABLE NEAM 5-20R 50 ' CORD REEL WITH SINGLE INDUSTRIAL RECEPTACLE.

5 PROVIDE 208V/3P POWER CONNECTION FOR VEHICLE LIFT.
ROUTE SUPPLY CONDUITS TO CONTROL PANEL OVERHEAD, TO STAY OUT OF CLASSIFIED ZONE IN LOWER 18 " OF ROOM.
PROVIDE FUSED DISCONNECT FOR CONTROL CONSOLE SYSTEM POWER SUPPLY.
PROVIDE (2) 1 " CONDUITS PER LEG AS SERVICE SUPPLY CONDUITS, FROM CONTROL PANEL TO SERVICE LEG LOCATIONS.
PROVIDE TEMPORARY PLUGS OR CAPS FOR SERVICE CONDUIT OPENINGS.
COORDINATE FINAL CONNECTION REQUIREMENTS AND LOCATION WITH MANUFACTURER INSTALLATION INSTRUCTIONS.

6 COORDINATE FINAL CONNECTION AND OUTLET REQUIREMENTS AND LOCATIONS WITH FLUID CONTRACTOR SHOP DRAWINGS PRIOR TO ROUGH-IN.

7 PROVIDE TRANSFORMER OVERHEAD.

8 CEILING FAN AND LIGHT FIXTURES SHALL BE MOUNTED AT THE SAME HEIGHT ABOVE FINISHED FLOOR, TO MITIGATE STROBE EFFECT.

9 PROVIDE 480V/3P POWER CONNECTION FOR 5 TON CRANE AND 120V POWER CONNECTION FOR CONTROLS FOR CRANE. COORDINATE FINAL EQUIPMENT CONNECTIONS AND LOCATIONS WITH FINAL EQUIPMENT INSTALLATION AND OTHER TRADES PRIOR TO ROUGH-IN.

10 PROVIDE 480V/3P POWER CONNECTION FOR 10 TON CRANE AND 120V POWER CONNECTION FOR CONTROLS FOR CRANE. COORDINATE FINAL EQUIPMENT CONNECTIONS AND LOCATIONS WITH FINAL EQUIPMENT INSTALLATION AND OTHER TRADES PRIOR TO ROUGH-IN.

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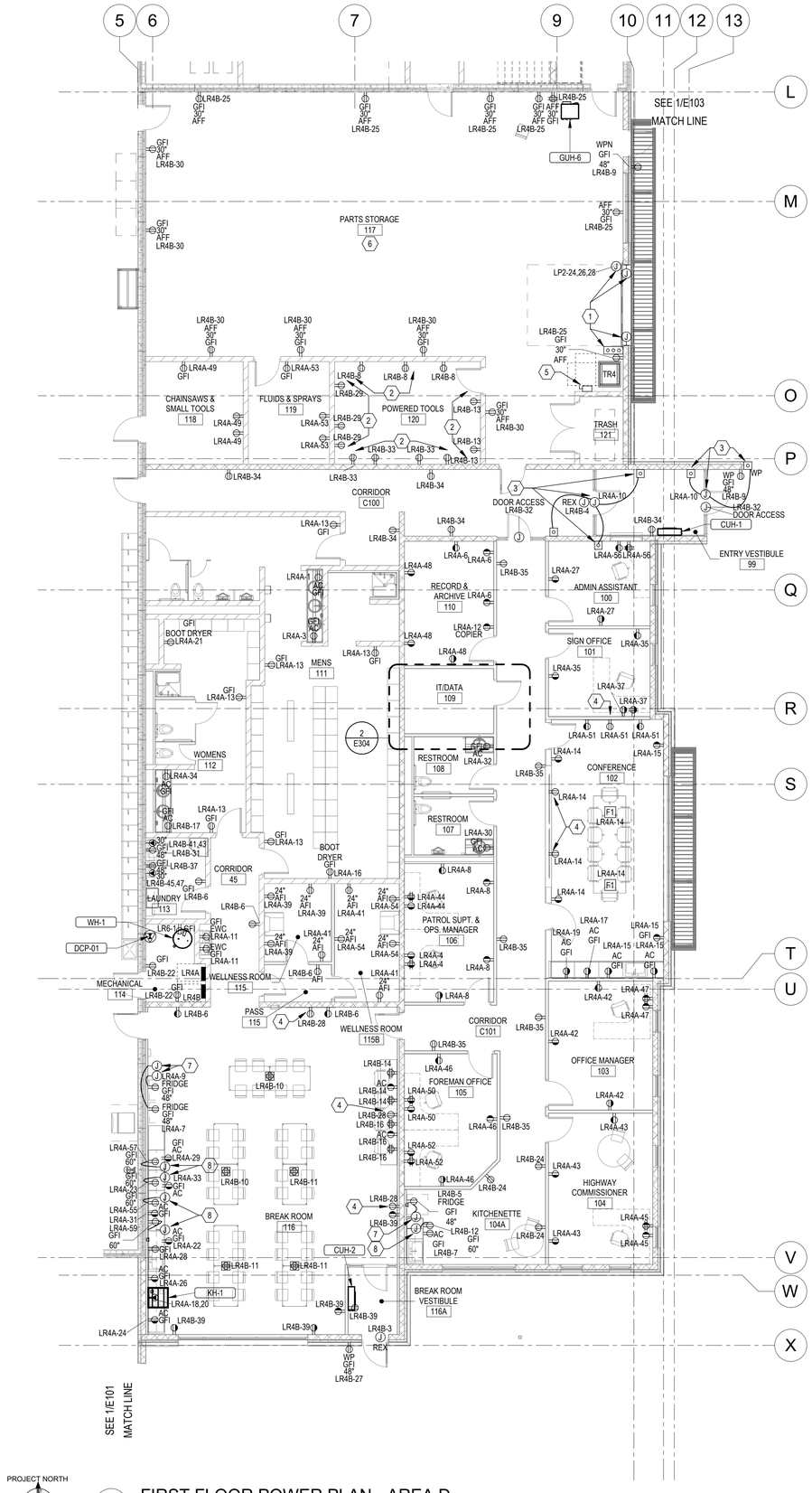
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
FIRST FLOOR POWER PLAN - AREA C

SHEET
E103



1 FIRST FLOOR POWER PLAN - AREA D

1/8" = 1'-0"

POWER SHEET NOTES

A. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
B. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT UNLESS INDICATED OTHERWISE. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT.
C. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
D. PROVIDE THE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
E. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
F. CONTROLLED OUTLETS SHALL BE SPLIT WIRED, AND SHALL BE CONTROLLED VIA LOCAL ROOM OCCUPANCY SENSORS.
G. COORDINATE NEMA OUTLET RATINGS WITH FINAL EQUIPMENT SELECTION REQUIREMENTS.
H. COORDINATE ALL EQUIPMENT OUTLETS WITH FINAL EQUIPMENT INSTALLATION LOCATIONS PRIOR TO ROUGH IN. SEE ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL INFORMATION.

KEYNOTES

1 PROVIDE POWER AND LOW VOLTAGE CONNECTIONS TO OVERHEAD DOOR SYSTEM. THIS INCLUDES BUT IS NOT LIMITED TO OPERATOR, PUSH BUTTONS, PHOTOEYE SENSORS, AND LOCAL DISCONNECT. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.
2 COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF CHARGING STATION OUTLETS FOR PORTABLE LIGHTS AND RADIOS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND MILLWORK INSTALLATION.
3 PROVIDE ADA PUSH PADS AND 120V POWER CONNECTION FOR AUTOMATIC DOOR OPENER. PROVIDE CONDUIT, WIRING, AND ALL PARTS AND PIECES AS REQUIRED FOR A COMPLETE AND OPERATION SYSTEM. COORDINATE REQUIREMENTS WITH DOOR HARDWARE VENDOR PRIOR TO ROUGH-IN. COORDINATE WITH TECHNOLOGY AND ACCESS CONTROL. COORDINATE FINAL MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO ROUGH-IN.
4 PROVIDE DUPLEX RECEPTACLE FOR WALL MOUNTED MONITOR INSTALLED IN RECESSED CABLE BOX (CHEIF PAC525 OR EQUIVALENT). COORDINATE LOCATION OF MONITOR WITH ARCHITECTURAL DETAILS.
5 PROVIDE 200A NON-FUSED DISCONNECT SWITCH FOR ASSOCIATED TRANSFORMER.
6 PARTS STORAGE AREA IS CLASSIFIED AS CLASS 1, DIV 2 UP TO 18" AFF. INSTALL ALL RECEPTACLES AT 30" AFF OR HIGHER AND INSTALL ALL PANELBOARDS SO THAT THE BOTTOM OF THE PANEL IS AT LEAST 30" AFF. PROVIDE CONDUIT AND SEALANTS APPROPRIATE FOR CLASSIFICATION.
7 PROVIDE DEAD FRONT GFI DEVICE, IN AN ACCESSIBLE LOCATION, FOR REFRIGERATOR OUTLET.
8 PROVIDE DEAD FRONT GFI DEVICE ABOVE COUNTER, IN AN ACCESSIBLE LOCATION, FOR MICROWAVE OUTLET.

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SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
FIRST FLOOR POWER PLAN - AREA D

SHEET
E104

KEYNOTES

1 PROVIDE POWER AND LOW VOLTAGE CONNECTIONS TO OVERHEAD DOOR SYSTEM. THIS INCLUDES BUT IS NOT LIMITED TO OPERATOR, PUSH BUTTONS, PHOTOEYE SENSORS, AND LOCAL DISCONNECT. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.

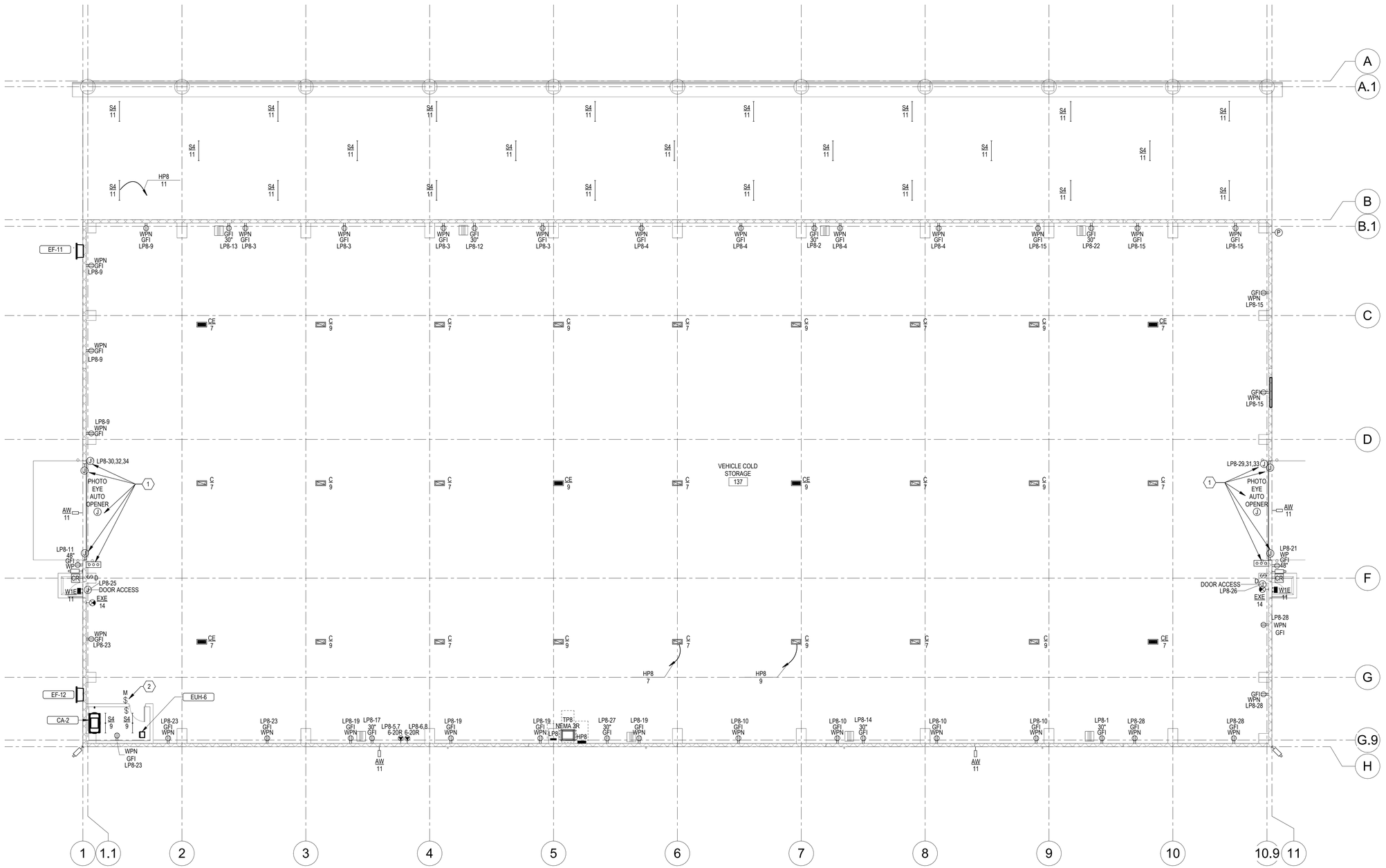
2 PROVIDE MOTOR RATED SWITCH WITH INDICATOR LIGHT ON EXTERIOR OF ROOM FOR CONTROL OF AIR COMPRESSOR.

LIGHTING SHEET NOTES

A. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUITS.
B. ALL MOUNTING FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
C. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
D. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
E. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
F. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
G. LIGHTING CONTROL SYSTEM BASIS OF DESIGN IS ACUITY N LIGHT OR APPROVED EQUAL DIGITALLY NETWORKED LIGHTING CONTROL SYSTEM.

POWER SHEET NOTES

A. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
B. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT UNLESS INDICATED OTHERWISE. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT.
C. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
D. PROVIDE THE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
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F. CONTROLLED OUTLETS SHALL BE SPLIT WIRED, AND SHALL BE CONTROLLED VIA LOCAL ROOM OCCUPANCY SENSORS.
G. COORDINATE NEMA OUTLET RATINGS WITH FINAL EQUIPMENT SELECTION REQUIREMENTS.
H. COORDINATE ALL EQUIPMENT OUTLETS WITH FINAL EQUIPMENT INSTALLATION LOCATIONS PRIOR TO ROUGH IN. SEE ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL INFORMATION.



PROJECT NORTH

FIRST FLOOR ELECTRICAL PLAN - VEHICLE COLD (UNHEATED) STORAGE

1" = 10'-0"

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SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
ELECTRICAL PLAN - VEHICLE COLD STORAGE

SHEET
E106

LIGHTING SHEET NOTES

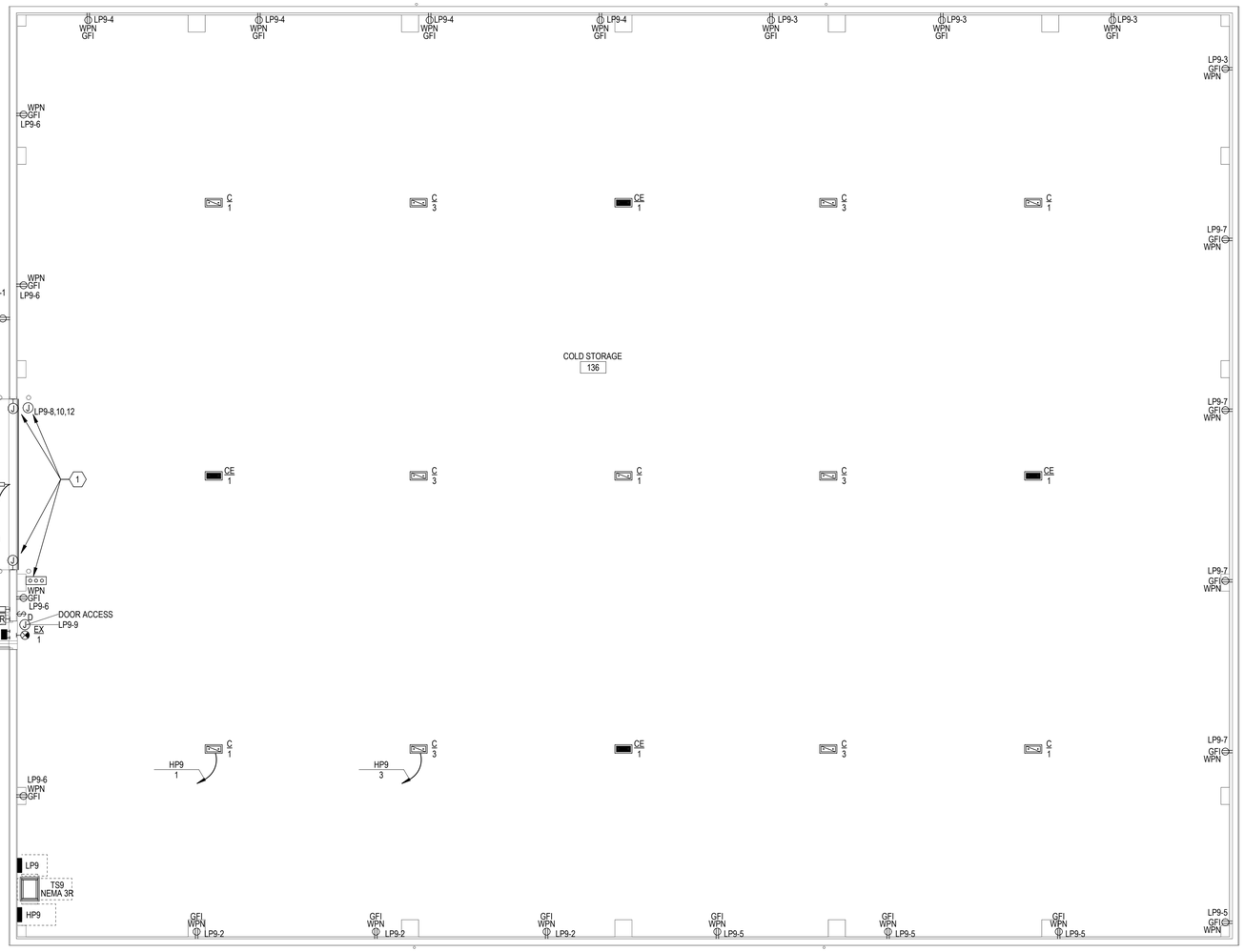
A. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUITS.
B. ALL MOUNTING FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
C. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
D. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
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G. LIGHTING CONTROL SYSTEM BASIS OF DESIGN IS ACUITY N LIGHT OR APPROVED EQUAL DIGITALLY NETWORKED LIGHTING CONTROL SYSTEM.

POWER SHEET NOTES

A. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
B. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT UNLESS INDICATED OTHERWISE. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT.
C. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
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G. COORDINATE NEMA OUTLET RATINGS WITH FINAL EQUIPMENT SELECTION REQUIREMENTS.
H. COORDINATE ALL EQUIPMENT OUTLETS WITH FINAL EQUIPMENT INSTALLATION LOCATIONS PRIOR TO ROUGH IN. SEE ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL INFORMATION.

KEYNOTES

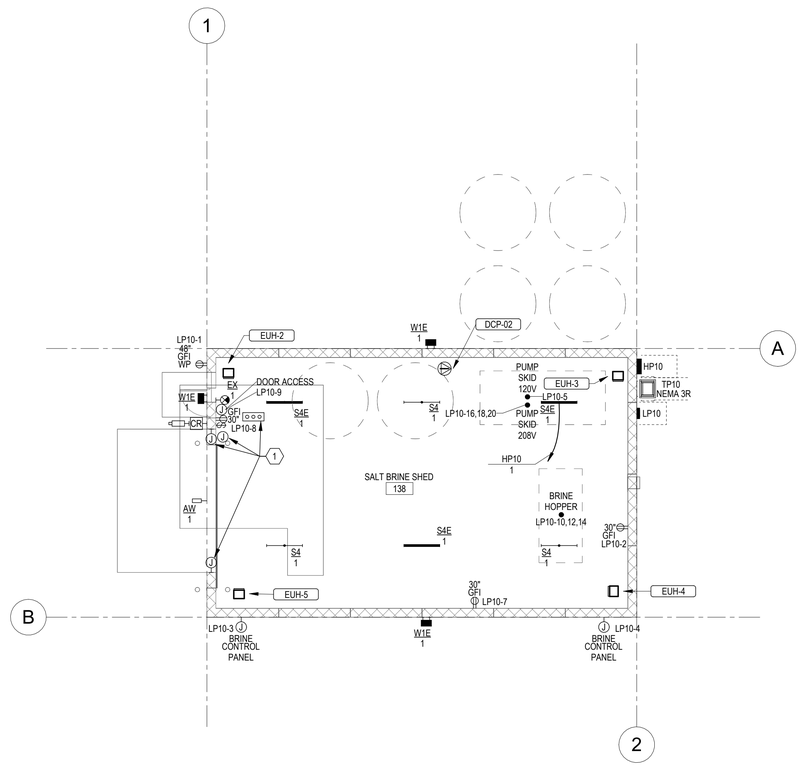
1 PROVIDE POWER AND LOW VOLTAGE CONNECTIONS TO OVERHEAD DOOR SYSTEM. THIS INCLUDES BUT IS NOT LIMITED TO OPERATOR, PUSH BUTTONS, PHOTOEYE SENSORS, AND LOCAL DISCONNECT. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.



PROJECT NORTH

1 FIRST FLOOR ELECTRICAL PLAN - EQUIPMENT COLD (UNHEATED) STORAGE

1/8" = 1'-0"



PROJECT NORTH

2 FIRST FLOOR ELECTRICAL PLAN - SALT BRINE SHED

1/8" = 1'-0"

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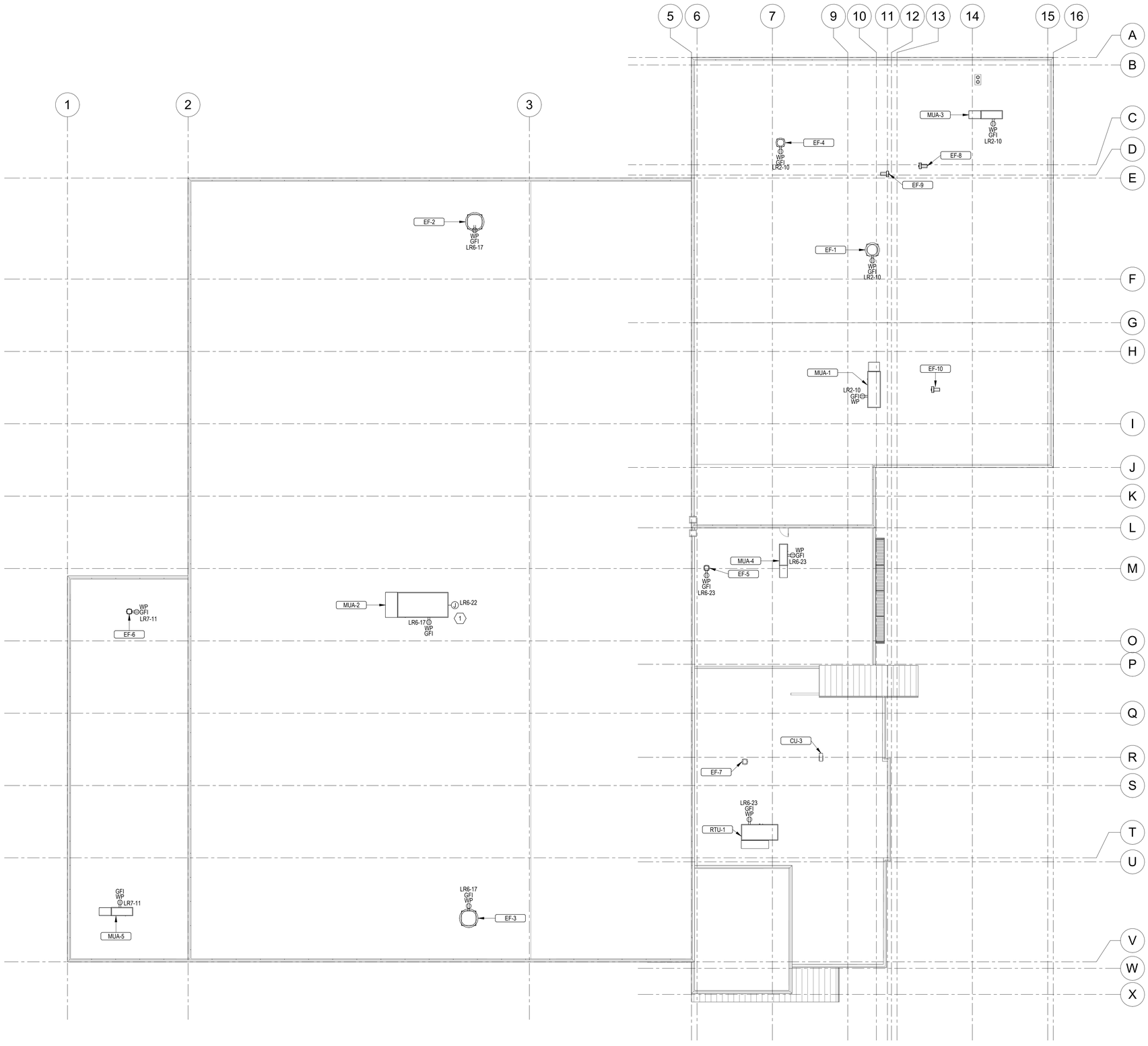
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
ELECTRICAL PLAN - EQUIPMENT COLD STORAGE

SHEET
E107



PROJECT NORTH

N

W E

S

1 ROOF POWER PLAN

1/16" = 1'-0"

POWER SHEET NOTES

A. WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
B. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT UNLESS INDICATED OTHERWISE. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT.
C. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
D. PROVIDE THE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
E. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
F. CONTROLLED OUTLETS SHALL BE SPLIT WIRED, AND SHALL BE CONTROLLED VIA LOCAL ROOM OCCUPANCY SENSORS.
G. COORDINATE NEMA OUTLET RATINGS WITH FINAL EQUIPMENT SELECTION REQUIREMENTS.
H. COORDINATE ALL EQUIPMENT OUTLETS WITH FINAL EQUIPMENT INSTALLATION LOCATIONS PRIOR TO ROUGH IN. SEE ARCHITECTURAL PLANS AND ELEVATIONS FOR ADDITIONAL INFORMATION.

KEYNOTES

1 PROVIDE 120V CONNECTION FOR SMOKE ISOLATION DAMPER.

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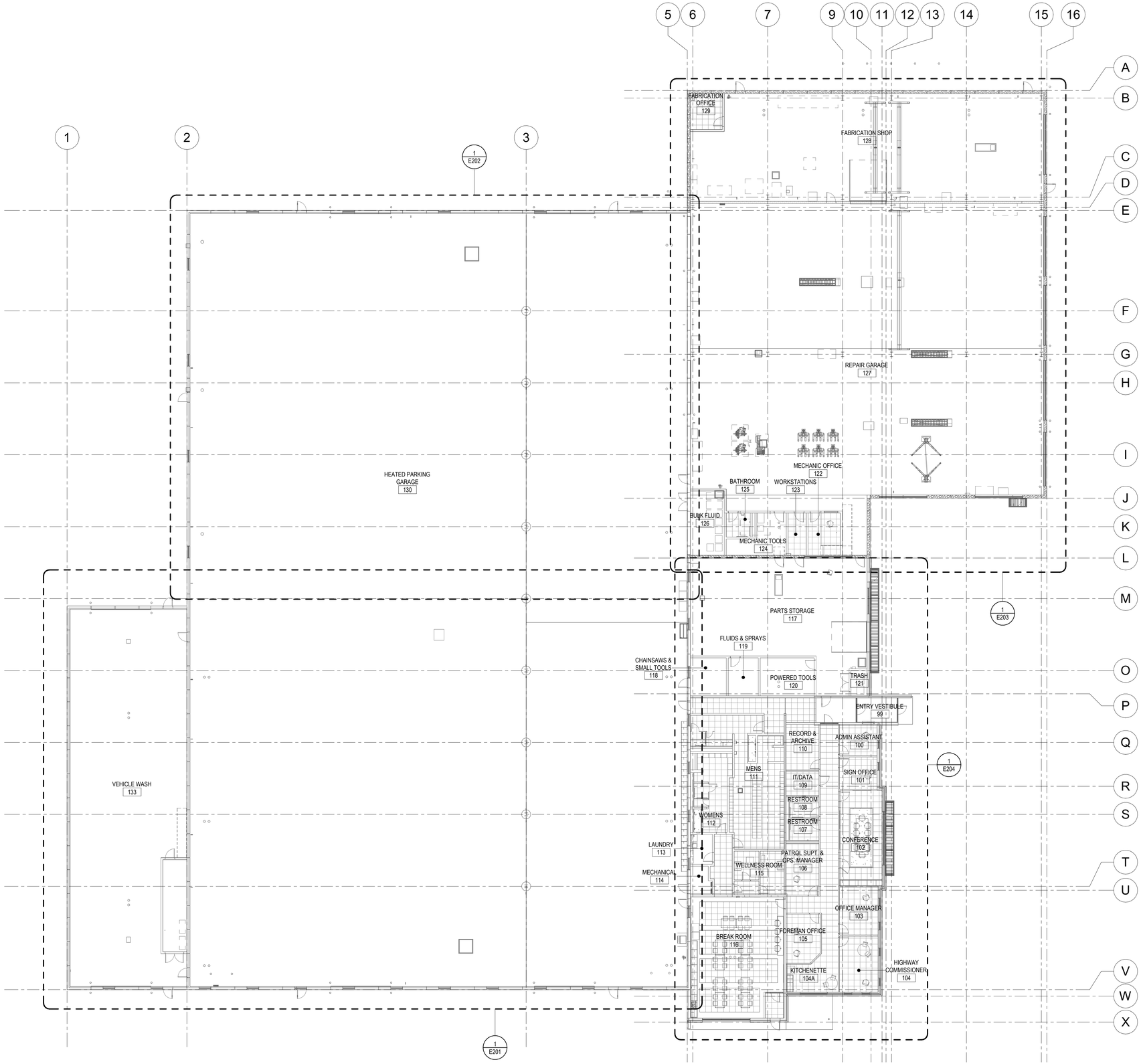
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
ROOF POWER PLAN

SHEET
E120



PROJECT NORTH

1 OVERALL LIGHTING PLAN

1/16" = 1'-0"

LIGHTING SHEET NOTES

A. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUITS.
B. ALL MOUNTING FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
C. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
D. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
E. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
F. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
G. LIGHTING CONTROL SYSTEM BASIS OF DESIGN IS ACUITY N LIGHT OR APPROVED EQUAL DIGITALLY NETWORKED LIGHTING CONTROL SYSTEM.

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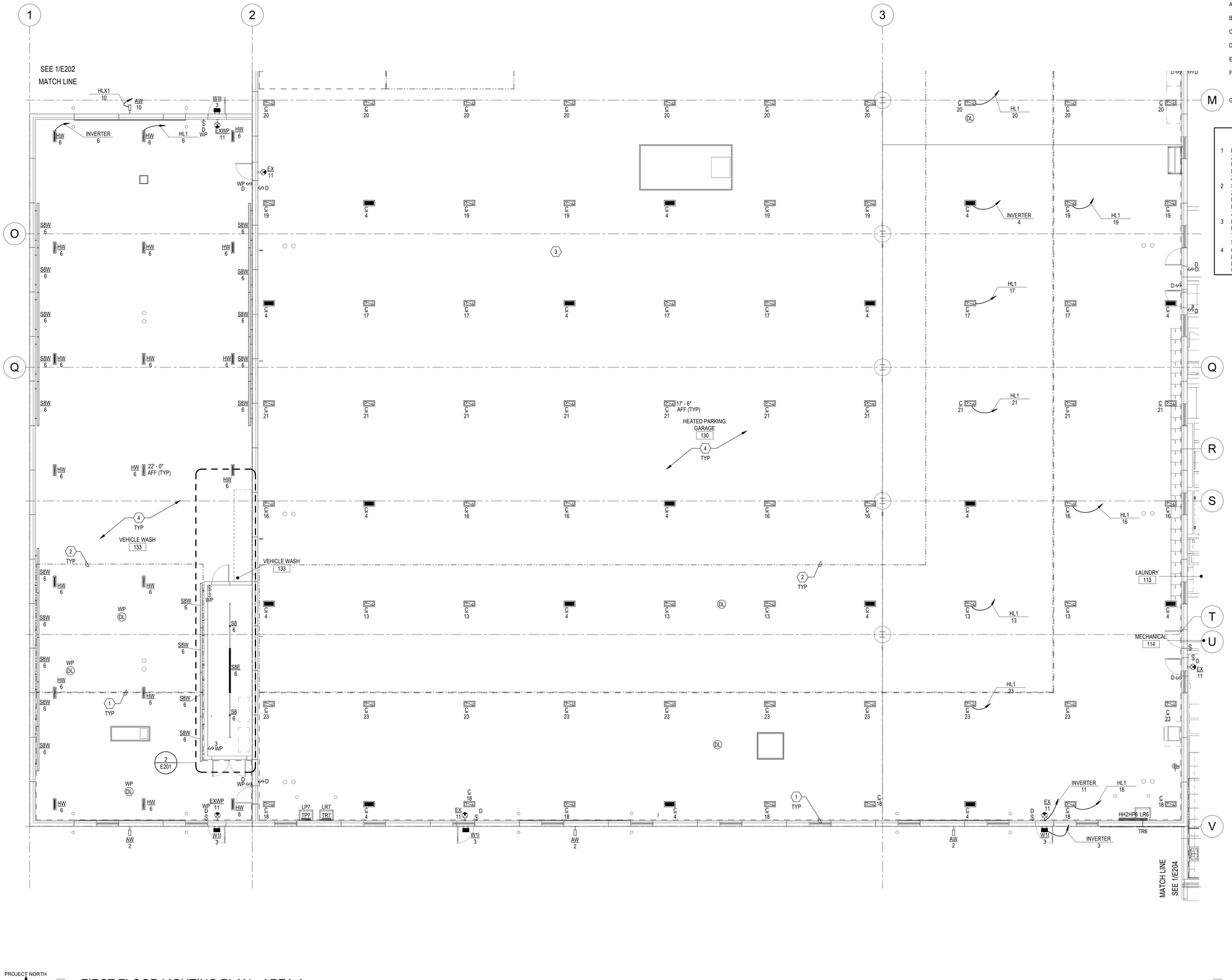
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
OVERALL LIGHTING PLAN

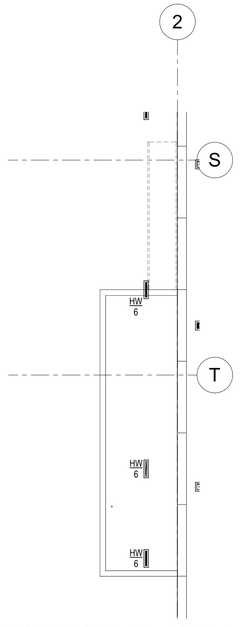
SHEET
E200



PROJECT NORTH

1 FIRST FLOOR LIGHTING PLAN - AREA A

1/8" = 1'-0"



2 MEZZANINE LIGHTING PLAN - AREA A

1/8" = 1'-0"

LIGHTING SHEET NOTES

A. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUITS.
B. ALL MOUNTING FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
C. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
D. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
E. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
F. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
G. LIGHTING CONTROL SYSTEM BASIS OF DESIGN IS ACUITY N LIGHT OR APPROVED EQUAL DIGITALLY NETWORKED LIGHTING CONTROL SYSTEM.

KEYNOTES

1 PRIMARY SIDELIT DAYLIGHT ZONE. PROVIDE DAYLIGHT HARVESTING IN DAYLIGHT ZONES SURROUNDING FENESTRATION AS REQUIRED BY LOCAL ENERGY CODES. FIELD VERIFY LOCATION OF PHOTOCELL FOR DAYLIGHT ZONE. LOCATE ABOVE WELL LIT LOCATION FOR ACCURATE READING. PHOTOCELL SHALL CONTROL ALL LIGHTING ZONES WITHIN THE DAYLIGHT ZONE.
2 SECONDARY SIDELIT DAYLIGHT ZONE. PROVIDE DAYLIGHT HARVESTING IN DAYLIGHT ZONES SURROUNDING FENESTRATION AS REQUIRED BY LOCAL ENERGY CODES. FIELD VERIFY LOCATION OF PHOTOCELL FOR DAYLIGHT ZONE. LOCATE ABOVE WELL LIT LOCATION FOR ACCURATE READING. PHOTOCELL SHALL CONTROL ALL LIGHTING ZONES WITHIN THE DAYLIGHT ZONE.
3 HEATED GARAGE AREA IS CLASSIFIED AS CLASS 1, DIV 2 UP TO 18" AFF. INSTALL ALL ELECTRICAL EQUIPMENT AT 30" AFF OR HIGHER AND INSTALL ALL PANELBOARDS SO THAT THE BOTTOM OF THE PANEL IS AT LEAST 30" AFF. PROVIDE CONDUIT AND SEALANTS APPROPRIATE FOR CLASSIFICATION.
4 CEILING FANS AND LIGHT FIXTURES MOUNTING SHALL BE COORDINATED SUCH THAT LIGHT FIXTURES ARE MOUNTED AT OR BELOW THE PLANE OF THE LOWEST MOUNTED FAN BLADES, TO MITIGATE STROBE EFFECT. COORDINATE INSTALLATION WITH MECHANICAL AND STRUCTURAL ACCORDINGLY.

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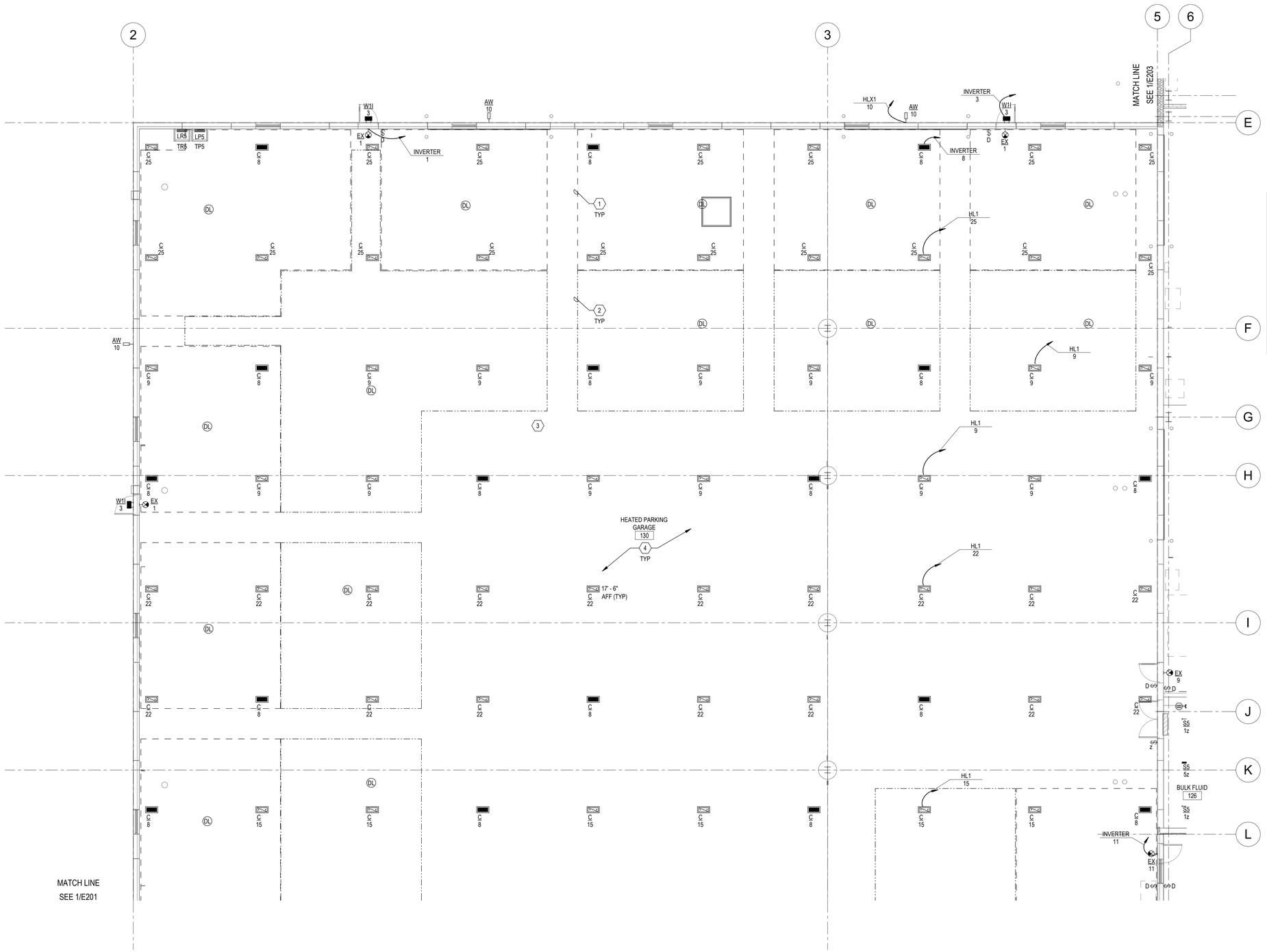
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
FIRST FLOOR LIGHTING PLAN - AREA A

SHEET
E201



LIGHTING SHEET NOTES

A. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUITS.
B. ALL MOUNTING FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
C. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
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KEYNOTES

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4 CEILING FANS AND LIGHT FIXTURES MOUNTING SHALL BE COORDINATED SUCH THAT LIGHT FIXTURES ARE MOUNTED AT OR BELOW THE PLANE OF THE LOWEST MOUNTED FAN BLADES, TO MITIGATE STROBE EFFECT. COORDINATE INSTALLATION WITH MECHANICAL AND STRUCTURAL ACCORDINGLY.

PROJECT NORTH

1 FIRST FLOOR LIGHTING PLAN - AREA B
1/8" = 1'-0"

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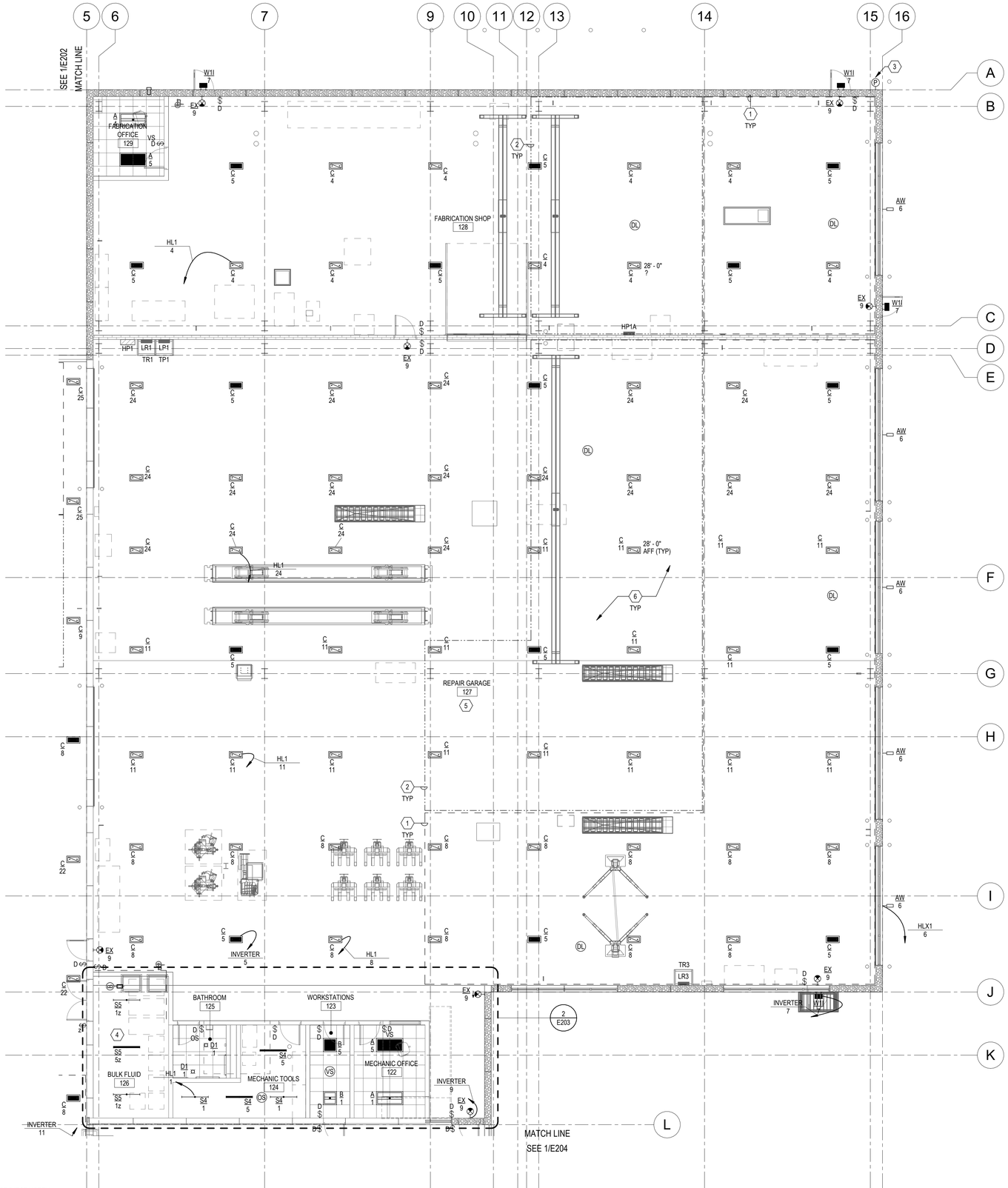
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
FIRST FLOOR LIGHTING PLAN - AREA B

SHEET
E202



PROJECT NORTH

1 FIRST FLOOR LIGHTING PLAN - AREA C

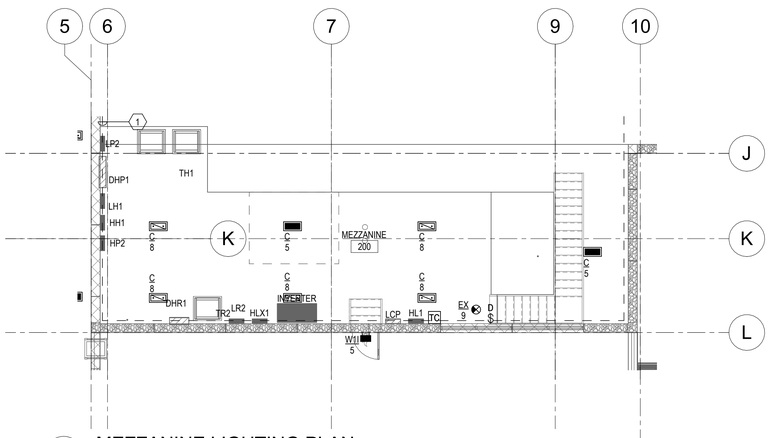
1/8" = 1'-0"

LIGHTING SHEET NOTES

A. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUITS.
B. ALL MOUNTING FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
C. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
D. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
E. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
F. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
G. LIGHTING CONTROL SYSTEM BASIS OF DESIGN IS ACUITY N LIGHT OR APPROVED EQUAL DIGITALLY NETWORKED LIGHTING CONTROL SYSTEM.

KEYNOTES

1 PRIMARY SIDELIT DAYLIGHT ZONE. PROVIDE DAYLIGHT HARVESTING IN DAYLIGHT ZONES SURROUNDING FENESTRATION AS REQUIRED BY LOCAL ENERGY CODES. FIELD VERIFY LOCATION OF PHOTOCELL FOR DAYLIGHT ZONE. LOCATE ABOVE WELL LIT LOCATION FOR ACCURATE READING. PHOTOCELL SHALL CONTROL ALL LIGHTING ZONES WITHIN THE DAYLIGHT ZONE.'
2 SECONDARY SIDELIT DAYLIGHT ZONE. PROVIDE DAYLIGHT HARVESTING IN DAYLIGHT ZONES SURROUNDING FENESTRATION AS REQUIRED BY LOCAL ENERGY CODES. FIELD VERIFY LOCATION OF PHOTOCELL FOR DAYLIGHT ZONE. LOCATE ABOVE WELL LIT LOCATION FOR ACCURATE READING. PHOTOCELL SHALL CONTROL ALL LIGHTING ZONES WITHIN THE DAYLIGHT ZONE.'
3 EXTERIOR LIGHTS SHALL BE CONTROLLED VIA PHOTOCELL. FIELD COORDINATE LOCATION OF PHOTOCELL.
4 BULK FLUID ROOM IS CLASSIFIED AS CLASS 1, DIV 2.
5 REPAIR GARAGE AREA IS CLASSIFIED AS CLASS 1, DIV 2 UP TO 18" AFF. INSTALL ALL DEVICES AT 30" AFF OR HIGHER. PROVIDE CONDUIT AND SEALANTS APPROPRIATE FOR CLASSIFICATION.
6 CEILING FANS AND LIGHT FIXTURES MOUNTING SHALL BE COORDINATED SUCH THAT LIGHT FIXTURES ARE MOUNTED AT OR BELOW THE PLANE OF THE LOWEST MOUNTED FAN BLADES, TO MITIGATE STROBE EFFECT. COORDINATE INSTALLATION WITH MECHANICAL AND STRUCTURAL ACCORDINGLY.



2 MEZZANINE LIGHTING PLAN

1/8" = 1'-0"

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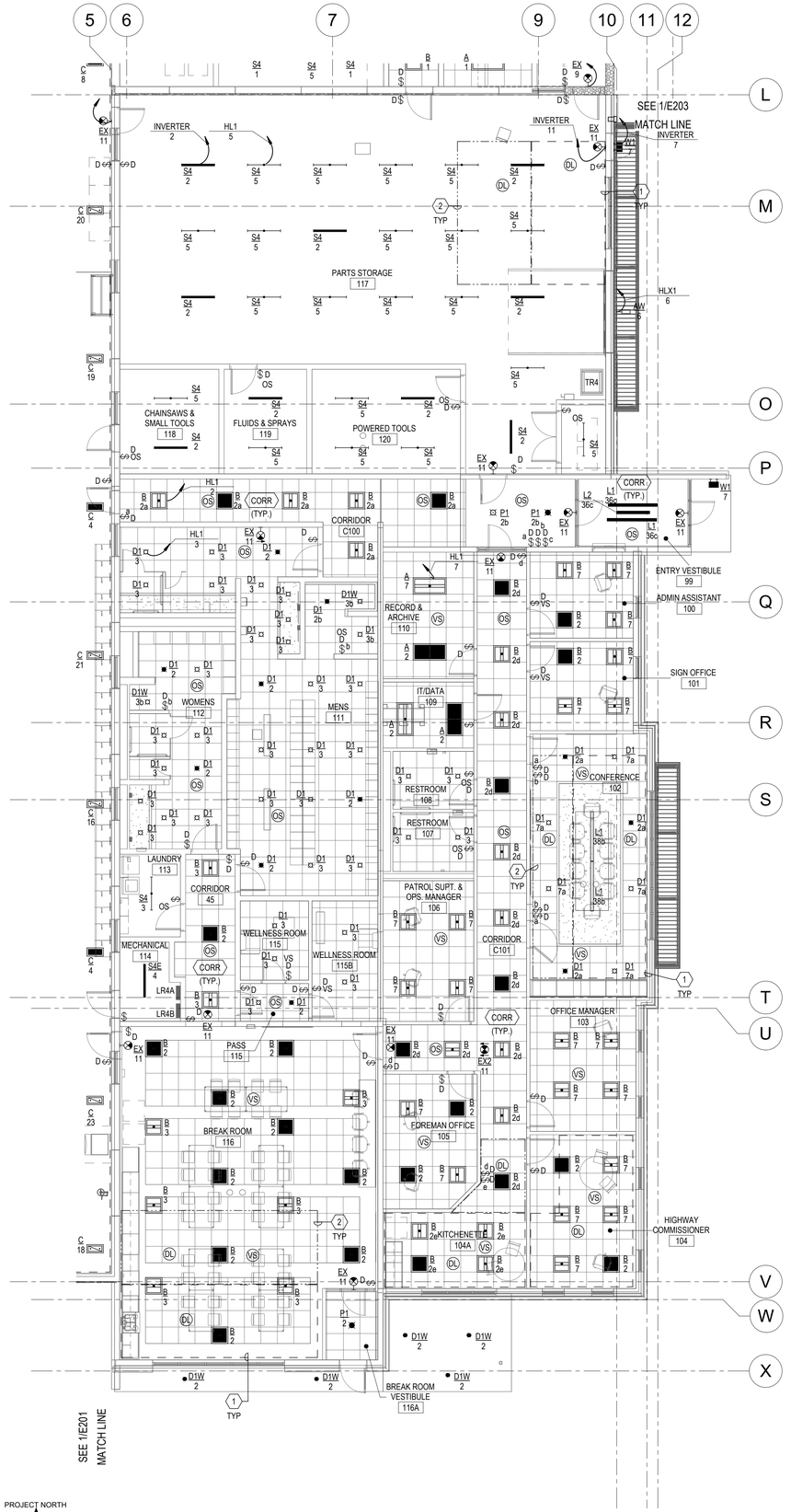
SET TYPE
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BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
FIRST FLOOR LIGHTING PLAN - AREA C

SHEET
E203



LIGHTING SHEET NOTES

A. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUITS.
B. ALL MOUNTING FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
C. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
D. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
E. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
F. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
G. LIGHTING CONTROL SYSTEM BASIS OF DESIGN IS ACUITY N LIGHT OR APPROVED EQUAL DIGITALLY NETWORKED LIGHTING CONTROL SYSTEM.

KEYNOTES

1 PRIMARY SIDELIT DAYLIGHT ZONE. PROVIDE DAYLIGHT HARVESTING IN DAYLIGHT ZONES SURROUNDING FENESTRATION AS REQUIRED BY LOCAL ENERGY CODES. FIELD VERIFY LOCATION OF PHOTOCELL FOR DAYLIGHT ZONE. LOCATE ABOVE WELL LIT LOCATION FOR ACCURATE READING. PHOTOCELL SHALL CONTROL ALL LIGHTING ZONES WITHIN THE DAYLIGHT ZONE.'
2 SECONDARY SIDELIT DAYLIGHT ZONE. PROVIDE DAYLIGHT HARVESTING IN DAYLIGHT ZONES SURROUNDING FENESTRATION AS REQUIRED BY LOCAL ENERGY CODES. FIELD VERIFY LOCATION OF PHOTOCELL FOR DAYLIGHT ZONE. LOCATE ABOVE WELL LIT LOCATION FOR ACCURATE READING. PHOTOCELL SHALL CONTROL ALL LIGHTING ZONES WITHIN THE DAYLIGHT ZONE.'

LIGHTING CONTROLS SEQUENCE SCHEDULE

CORR	TYPICAL CORRIDOR LIGHTING CONTROLS: ON: AUTO ON TO 100% OFF: AUTO DIM TO 50% TIMECLOCK: AUTO SWEEP OFF AFTER BUSINESS HOURS, TO BE ESTABLISHED WITH OWNER. DAYLIGHT HARVESTING: YES, VIA LOCAL DAYLIGHT SENSORS. MANUAL LOCAL OVERRIDE: AS INDICATED ON PLANS. LIGHT FIXTURES SHALL BE ZONED AS INDICATED ON PLAN WITH SWITCH ID LOWER CASE LETTERING. SCENE SETTINGS AND LABELING SHALL BE APPROVED BY OWNER.

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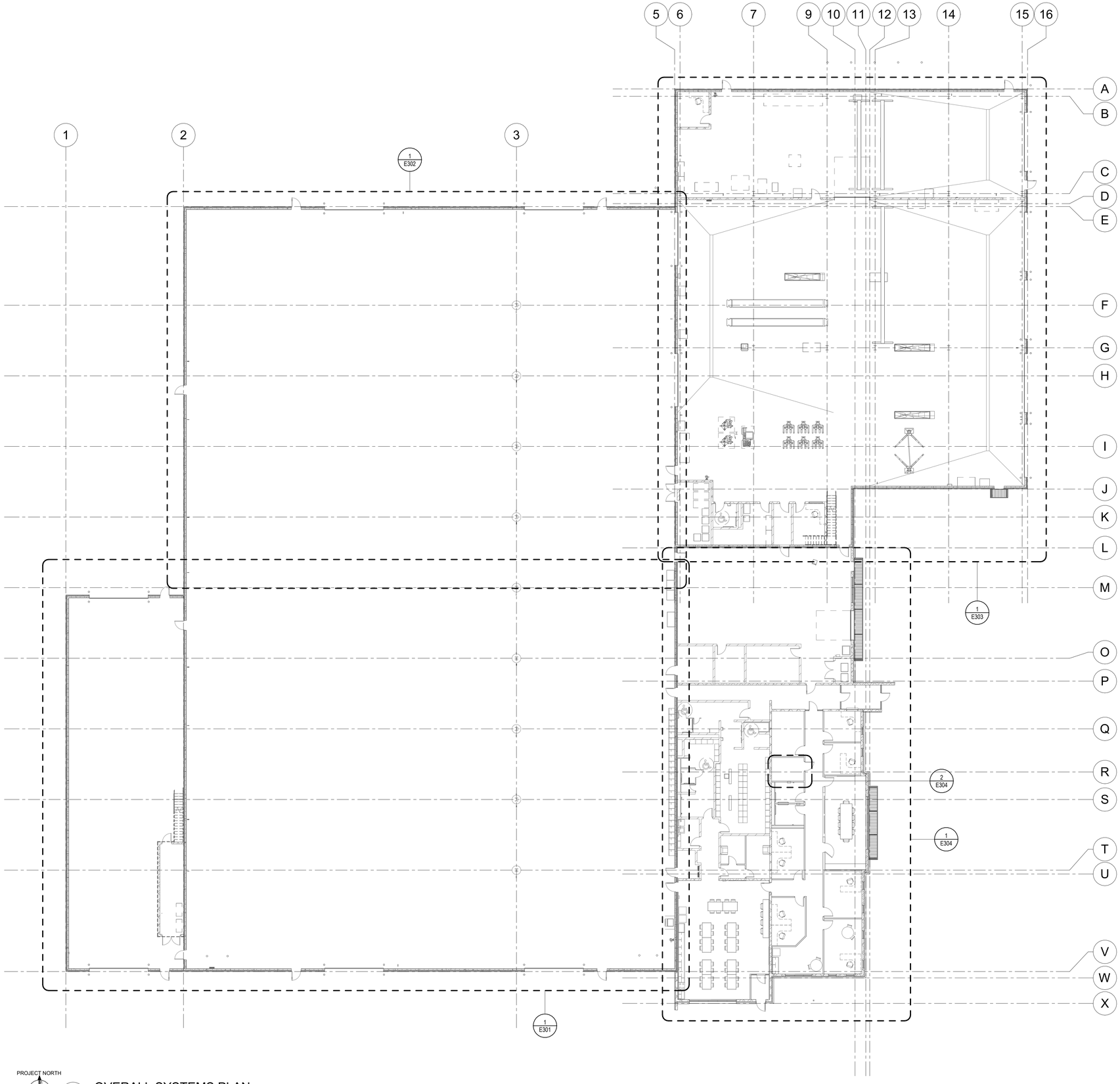
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BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
FIRST FLOOR LIGHTING PLAN - AREA D

SHEET
E204



PROJECT NORTH

W E S

1 OVERALL SYSTEMS PLAN

1/16" = 1'-0"

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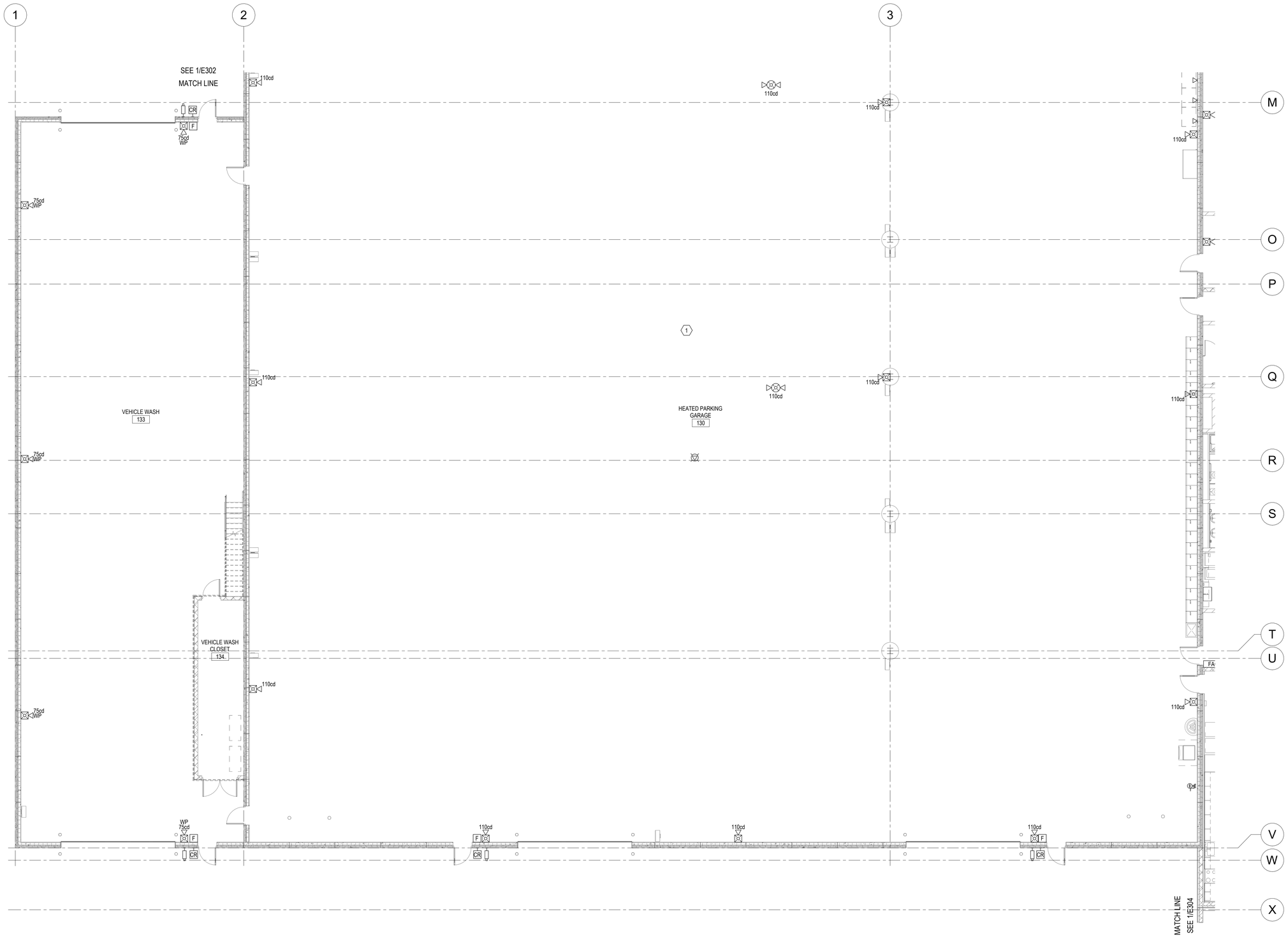
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
OVERALL SYSTEMS PLAN

SHEET
E300



KEYNOTES

1 HEATED GARAGE AREA IS CLASSIFIED AS CLASS 1, DIV 2 UP TO 18" AFF. INSTALL ALL DEVICES AT 30" AFF OR HIGHER. PROVIDE CONDUIT AND SEALANTS APPROPRIATE FOR CLASSIFICATION.

PROJECT NORTH

1 FIRST FLOOR SYSTEMS PLAN - AREA A

1/8" = 1'-0"

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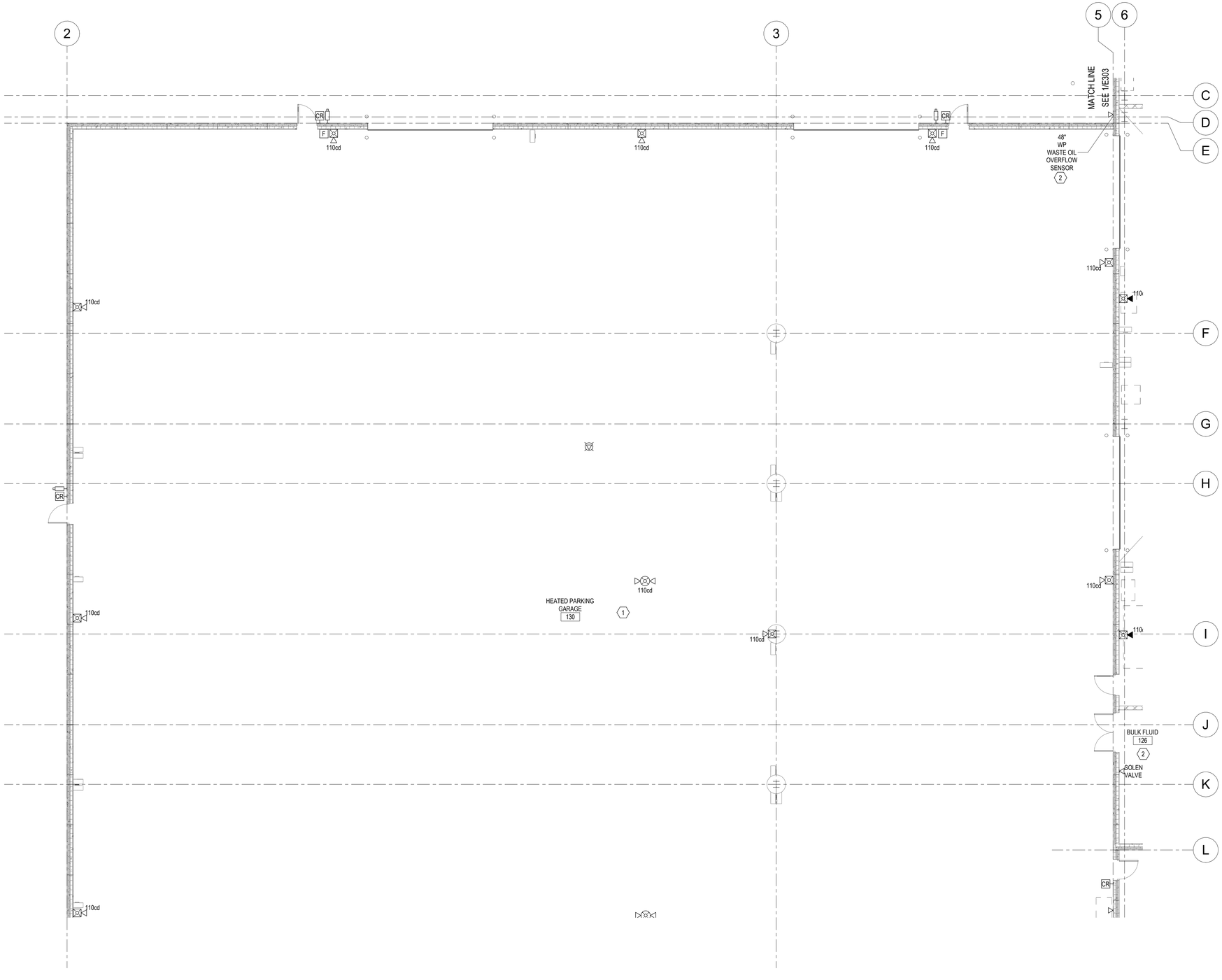
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
FIRST FLOOR SYSTEMS PLAN - AREA A

SHEET
E301



KEYNOTES

1 HEATED GARAGE AREA IS CLASSIFIED AS CLASS 1, DIV 2 UP TO 18" AFF. INSTALL ALL DEVICES AT 30" AFF OR HIGHER. PROVIDE CONDUIT AND SEALANTS APPROPRIATE FOR CLASSIFICATION.

PROJECT NORTH

W E S

1 FIRST FLOOR SYSTEMS PLAN - AREA B

1/8" = 1'-0"

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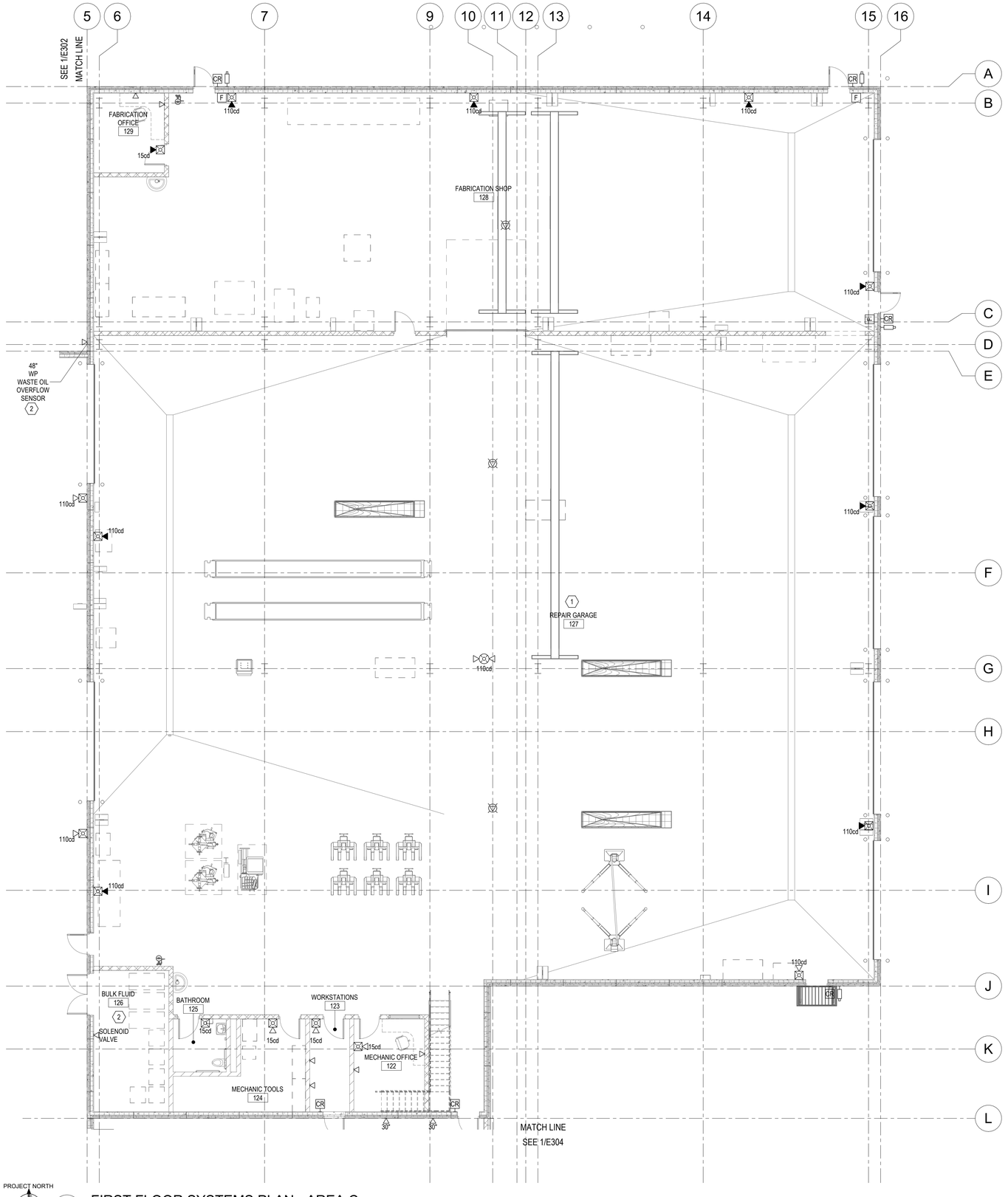
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BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
FIRST FLOOR SYSTEMS PLAN - AREA B

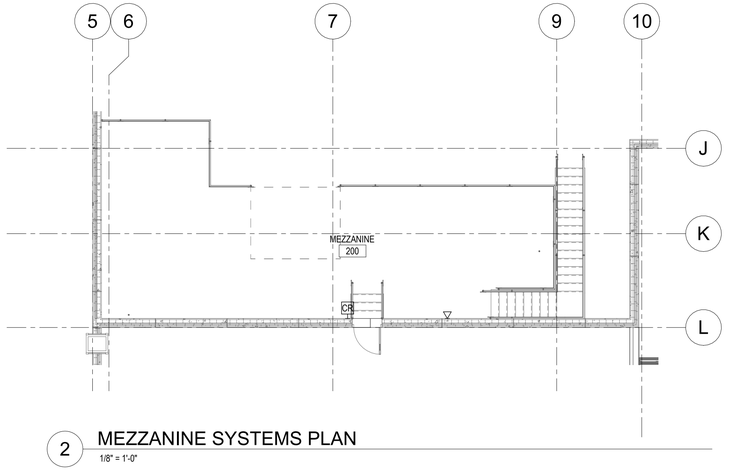
SHEET
E302



PROJECT NORTH

1 FIRST FLOOR SYSTEMS PLAN - AREA C

1/8" = 1'-0"



2 MEZZANINE SYSTEMS PLAN

1/8" = 1'-0"

KEYNOTES

1 REPAIR GARAGE AREA IS CLASSIFIED AS CLASS 1, DIV 2 UP TO 18" AFF. INSTALL ALL DEVICES AT 30" AFF OR HIGHER. PROVIDE CONDUIT AND SEALANTS APPROPRIATE FOR CLASSIFICATION.

2 COORDINATE LOW VOLTAGE ROUGH-IN REQUIREMENTS AND LOCATIONS WITH FLUID CONTRACTOR SHOP DRAWINGS PRIOR TO ROUGH-IN.

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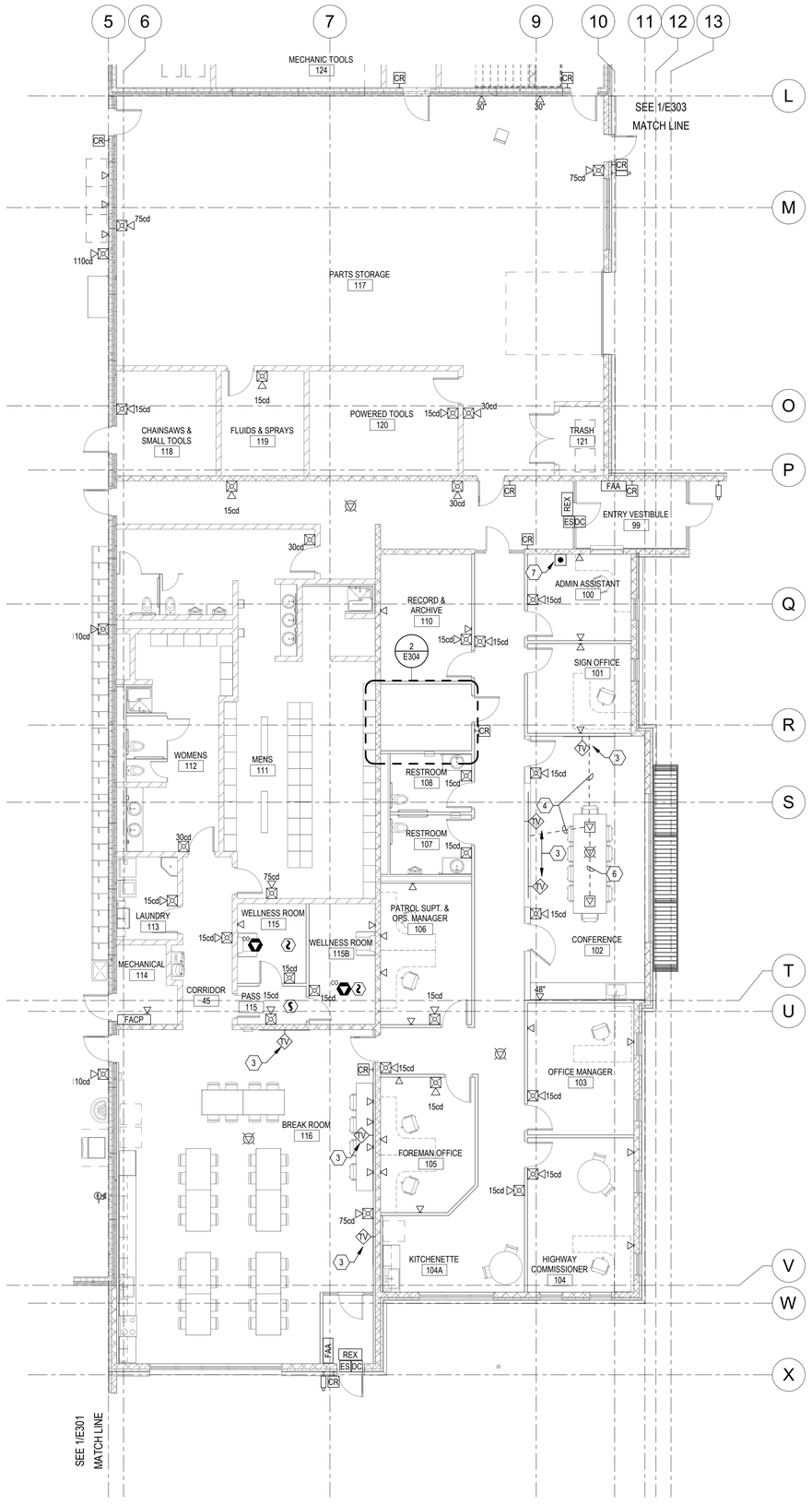
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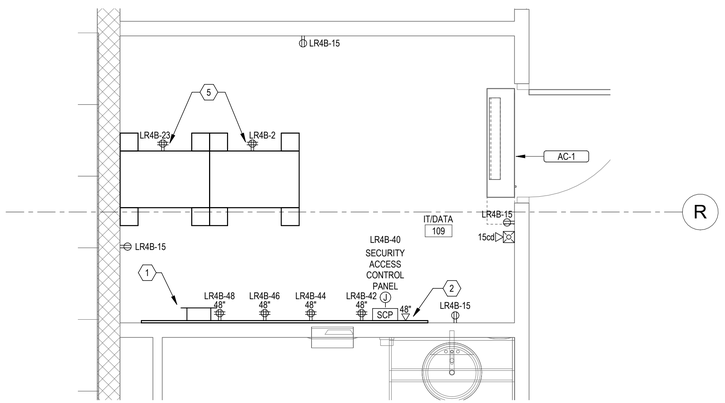
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50923

DATE
06.22.2026

SHEET TITLE
FIRST FLOOR SYSTEMS PLAN - AREA C

SHEET
E303





PROJECT NORTH

2 ENLARGED IT/DATA ROOM

1/2" = 1'-0"

PROJECT NORTH

1 FIRST FLOOR SYSTEMS PLAN - AREA D

1/8" = 1'-0"

KEYNOTES

1. PROVIDE WALL MOUNTED TELECOMMUNICATIONS PRIMARY BONDING BUSBAR AT 24" AFF.
2. PROVIDE 8' X 4' X 3/4" PLYWOOD BACKBOARD FOR CONTROLS, SECURITY, AND SIMILAR IT SYSTEM MOUNTING NEEDS. PAINT WITH TWO COATS OF FIRE-RETARDANT PAINT.
3. PROVIDE RECESSED BOX EQUAL TO CHIEF PAC525 OR EQUIVALENT FOR DATA ROUGH-IN FOR WALL MOUNTED MONITOR. COORDINATE LOCATION OF RECESSED BOX WITH MONITORS IN ARCHITECTURAL DETAILS.
4. PROVIDE 1-1/2" SLEEVE FROM FLOOR DATA BOX TO MONITOR WALL LOCATION. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
5. INSTALL QUADPLEX RECEPTACLE ON DATA RACK.
6. PROVIDE 1-1/2" SLEEVE BETWEEN FLOOR DATA BOXES. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
7. DOOR RELEASE CONTROL BUTTON. COORDINATE LCOATION OF DEVICE WITH ARCHITECTURAL DETAILS.

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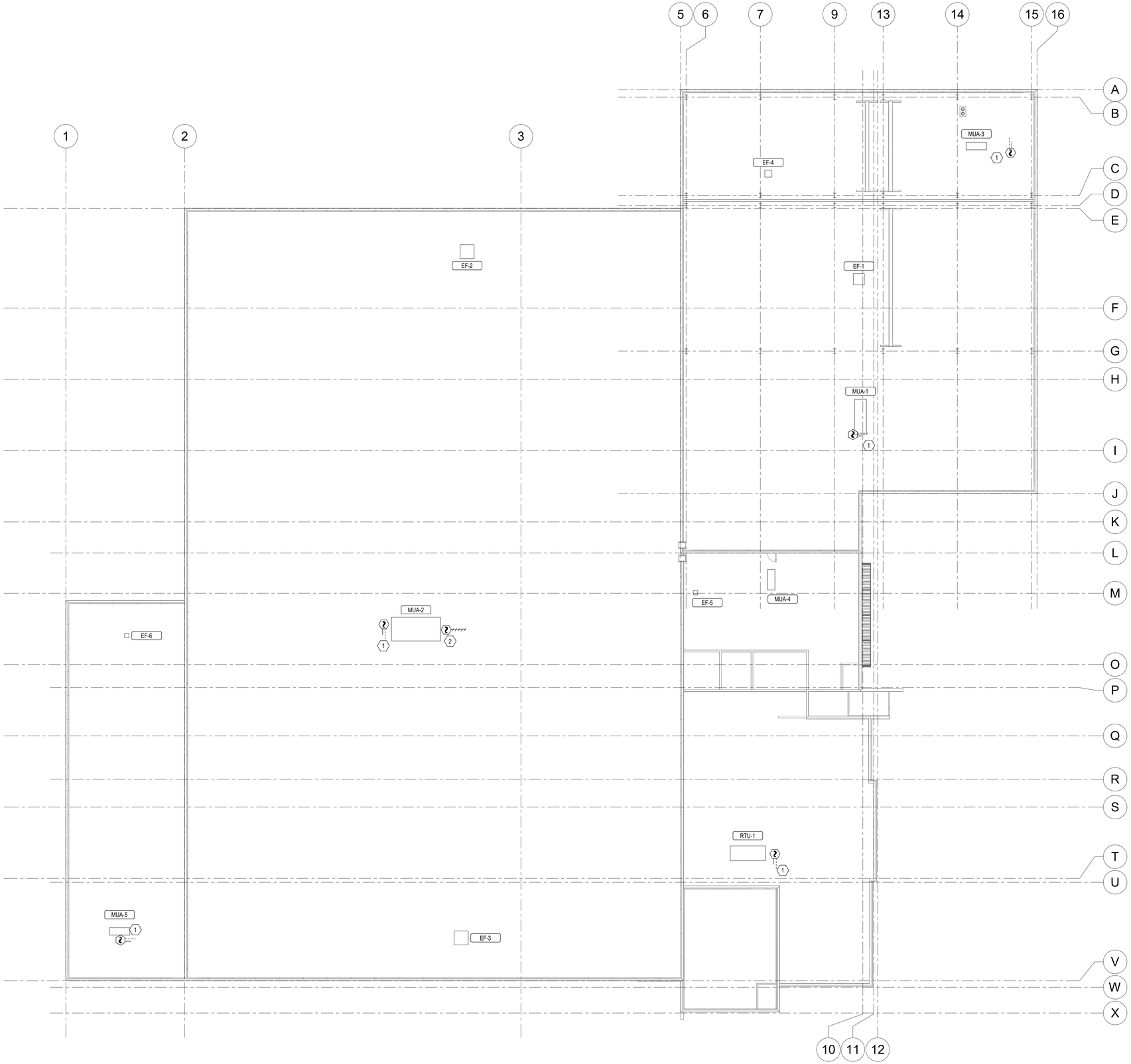
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BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
FIRST FLOOR SYSTEMS PLAN - AREA D

SHEET
E304



1 ROOF POWER PLAN

1/16" = 1'-0"

KEYNOTES

1 PROVIDE DUCT SMOKE DETECTORS IN SUPPLY SIDE DUCTS. PROVIDE FIRE ALARM RELAY FOR AUTOMATIC SHUT DOWN OF ASSOCIATED UNIT. PROVIDE REMOTE TEST STATION MOUNTED ON NEAREST ACCESSIBLE COLUMN OR WALL BELOW.

2 PROVIDE SMOKE DAMPER. PROVIDE FIRE ALARM RELAY FOR AUTOMATIC SHUT DOWN OF ASSOCIATED UNIT. PROVIDE REMOTE TEST STATION MOUNTED ON NEAREST ACCESSIBLE COLUMN OR WALL BELOW.

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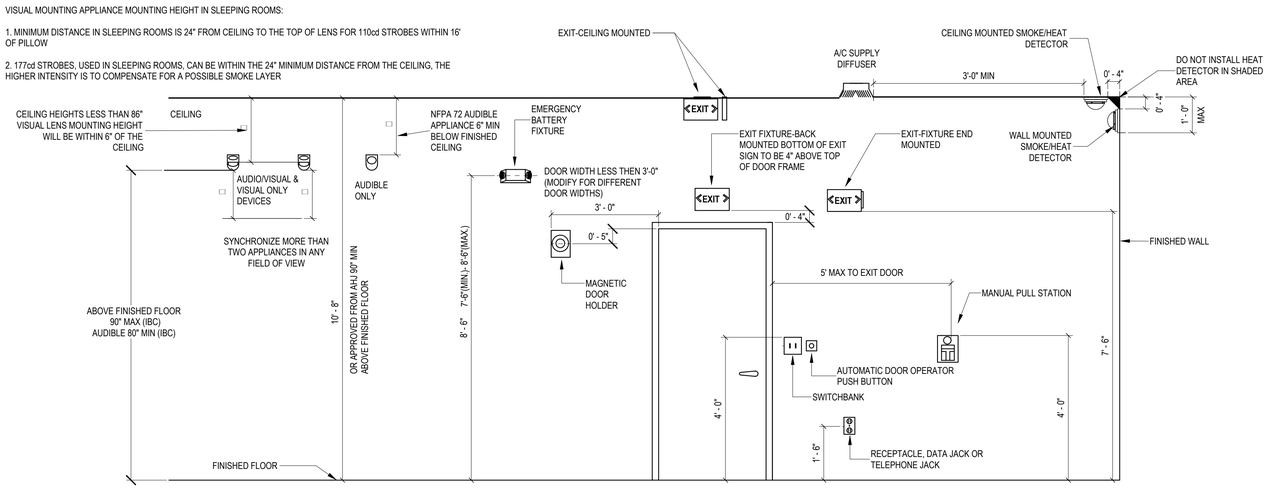
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DATE
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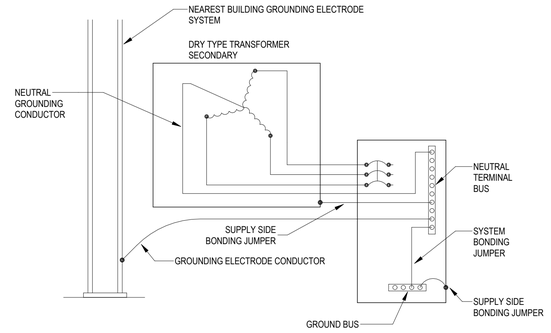
SHEET TITLE
ROOF SYSTEMS PLAN

SHEET
E305



1 TYPICAL MOUNTING HEIGHTS

NOT TO SCALE

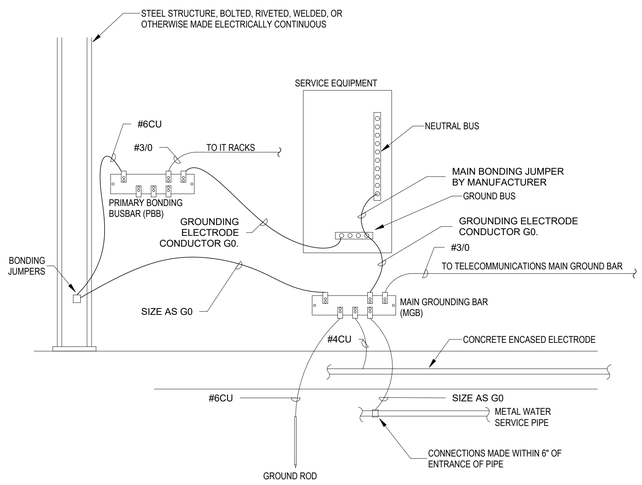


2 SEPARATELY DERIVED SYSTEM GROUND DETAIL

NOT TO SCALE

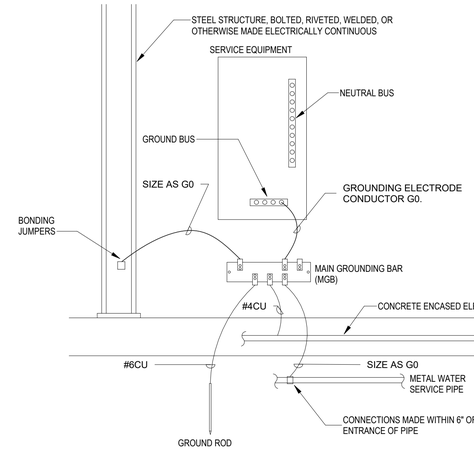
3 LIGHTING POLE BASE DETAIL

NOT TO SCALE



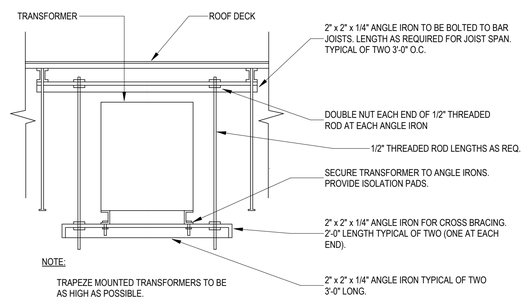
4 MAINTENANCE SHOP SERVICE GROUND DETAIL

NOT TO SCALE



6 SECONDARY BUILDING GROUND DETAIL

NOT TO SCALE



5 TRAPEZE MOUNTED TRANSFORMER DETAIL

NOT TO SCALE

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BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
ELECTRICAL DETAILS

SHEET
E501

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

			ELECTRICAL					CIRCUIT												DISCONNECTING AND CONTROL									
										PHASE CONDUCTORS			NEUTRAL CONDUCTORS			GROUND CONDUCTOR						STARTER			CONTROL			DISCONNECT				
ID	EQUIPMENT DESCRIPTION	LOCATION	VOLTAGE	PHASE	APPARENT POWER	FLA	MCA	OCP	RUNS	NO.	SIZE	TYPE	SIZE	TYPE	SIZE	TYPE	CONDUIT SIZE	PANEL	CIRCUIT	TYPE	FURNISH	INSTALL	TYPE	FURNISH	INSTALL	TYPE	FURNISH	INSTALL	INTERLOCK	NOTES
AC-1	SPLIT DX FAN COIL	IT/DATA 109	208 V	1	0.2 kVA	0.8 A	1.0 A	15 A	1	2	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	10,12	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	2P-30A UNFUSED, NEMA 1	DIV 26	DIV 26	CU-3	-
B-1	GAS-FIRED BOILER	MEZZANINE 200	120 V	1	0.1 kVA	0.6 A	0.8 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	38	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26		-
B-2	GAS-FIRED BOILER	VEHICLE WASH CLOSET 134	120 V	1	1.9 kVA	15.5 A	19.4 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LP7	1	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26		
B-3	GAS-FIRED BOILER	MEZZANINE 200	120 V	1	0.3 kVA	2.6 A	10.0 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	40	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26		-
B-4	GAS-FIRED BOILER	MEZZANINE 200	120 V	1	0.3 kVA	2.6 A	10.0 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	42	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26		-
CA-1	AIR COMPRESSOR	HEATED PARKING GARAGE 130	480 V	3	22.4 kVA	27.0 A	33.8 A	70 A	1	3	8 AWG	Cu	8 AWG	Cu	8 AWG	Cu	1"	HP2	1,3,5	SINGLE POINT	MFR	DIV 23	INTEGRAL	DIV 23	DIV 23	3P-60A UNFUSED, NEMA 1	DIV 26	DIV 26	-	
CA-2	AIR COMPRESSOR	VEHICLE COLD STORAGE 137 VEHICLE COLD STORAGE 137	480 V	3	7.5 kVA	9.0 A	11.3 A	35 A	1	3	8 AWG	Cu	8 AWG	Cu	10 AWG	Cu	1"	HP8	13,15,17	SINGLE POINT	MFR	DIV 23	INTEGRAL	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 1	DIV 26	DIV 26	-	
CF-1	HVAC FAN	FABRICATION SHOP 128	120 V	1	0.4 kVA	3.1 A	3.9 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	59	SINGLE POINT	MFR	DIV 23	EMS	Div 23	DIV 23	1P-100A UNFUSED, NEMA 1	DIV 26	DIV 26		
CF-2	HVAC FAN	FABRICATION SHOP 128	120 V	1	0.4 kVA	3.1 A	3.9 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	57	SINGLE POINT	MFR	DIV 23	EMS	Div 23	DIV 23	1P-100A UNFUSED, NEMA 1	DIV 26	DIV 26		
CF-3	HVAC FAN	REPAIR GARAGE 127	120 V	1	0.4 kVA	3.1 A	3.9 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	55	SINGLE POINT	MFR	DIV 23	EMS	Div 23	DIV 23	1P-100A UNFUSED, NEMA 1	DIV 26	DIV 26		
CF-4	HVAC FAN	REPAIR GARAGE 127	120 V	1	0.4 kVA	3.1 A	3.9 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	6	SINGLE POINT	MFR	DIV 23	EMS	Div 23	DIV 23	1P-100A UNFUSED, NEMA 1	DIV 26	DIV 26		
CF-5	HVAC FAN	REPAIR GARAGE 127	120 V	1	0.4 kVA	3.1 A	3.9 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	9	SINGLE POINT	MFR	DIV 23	EMS	Div 23	DIV 23	1P-100A UNFUSED, NEMA 1	DIV 26	DIV 26		
CF-6	HVAC FAN	REPAIR GARAGE 127	120 V	1	0.4 kVA	3.1 A	3.9 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	7	SINGLE POINT	MFR	DIV 23	EMS	Div 23	DIV 23	1P-100A UNFUSED, NEMA 1	DIV 26	DIV 26		
CU-1	SPLIT DX OUTDOOR UNIT	128 FABRICATION SHOP	208 V	1	2.7 kVA	13.0 A	13.0 A	15 A	1	2	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	16,18	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	2P-30A UNFUSED, NEMA 3R	DIV 26	DIV 26	FCU-1	-
CU-2	SPLIT DX OUTDOOR UNIT	MEZZANINE 200	208 V	1	2.7 kVA	13.0 A	13.0 A	15 A	1	2	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	23,25	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	2P-30A UNFUSED, NEMA 3R	DIV 26	DIV 26	FCU-2	-
CU-3	SPLIT DX OUTDOOR UNIT	ROOF	208 V	1	1.0 kVA	4.6 A	5.8 A	15 A	1	2	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	2,4	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	2P-30A UNFUSED, NEMA 3R	DIV 26	DIV 26	AC-1	-
CUH-1	HVAC UNIT HEATER	ENTRY VESTIBULE 99	120 V	1	0.1 kVA	0.8 A	1.0 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	1	SINGLE POINT	MFR	DIV 23	INTEGRAL THERMOSTAT	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26	-	-
CUH-2	HVAC UNIT HEATER	BREAK ROOM VESTIBULE 116A	120 V	1	0.1 kVA	0.8 A	1.0 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	3	SINGLE POINT	MFR	DIV 23	INTEGRAL THERMOSTAT	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26	-	-
DBP-01	PUMP	HEATED PARKING GARAGE 130	208 V	3	18.0 kVA	50.0 A	62.5 A	70 A	1	3	4 AWG	Cu	4 AWG	Cu	8 AWG	Cu	1-1/4"	LP5	13,15,17	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	3P-100A UNFUSED, NEMA 3R	DIV 26	DIV 26	-	-
DCP-01	PUMP	MECHANICAL 114	120 V	1	0.3 kVA	2.1 A	2.7 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	5	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26	-	-
DCP-02	HVAC PUMP	SALT BRINE SHED 138	208 V	1	1.3 kVA	6.3 A	7.9 A	50 A	1	2	12 AWG	Cu	12 AWG	Cu	10 AWG	Cu	3/4"	LP10	13,15	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	2P-60A UNFUSED, NEMA 1	DIV 26	DIV 26	-	
EF-1	HVAC FAN	ROOF	480 V	3	4.0 kVA	4.8 A	6.0 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HH1	13,15,17	VFD	MFR	DIV 23	EMS	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 3R	DIV 26	DIV 26	MUA-1	
EF-2	KITCHEN FAN	ROOF	480 V	3	6.3 kVA	7.6 A	9.5 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HH1	14,16,18	VFD	MFR	DIV 23	EMS	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 3R	DIV 26	DIV 26	MUA-2	
EF-3	KITCHEN FAN	ROOF	480 V	3	6.3 kVA	7.6 A	9.5 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HH1	26,28,30	VFD	MFR	DIV 23	EMS	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 3R	DIV 26	DIV 26	MUA-2	
EF-4	HVAC FAN	ROOF	480 V	3	1.5 kVA	1.8 A	2.3 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HH1	25,27,29	VFD	MFR	DIV 23	EMS	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 3R	DIV 26	DIV 26	MUA-3	
EF-5	HVAC FAN	ROOF	480 V	3	1.5 kVA	1.8 A	2.2 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HH1	38,40,42	VFD	MFR	DIV 23	EMS	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 3R	DIV 26	DIV 26	MUA-4	
EF-6	HVAC FAN	ROOF	480 V	3	1.5 kVA	1.8 A	2.3 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HH2	8,10,12	VFD	MFR	DIV 23	EMS	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 3R	DIV 26	DIV 26	MUA-5	
EF-7	HVAC FAN	ROOF	480 V	3	0.9 kVA	1.1 A	1.4 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HH2	2,4,6	VFD	MFR	DIV 23	EMS	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 3R	DIV 26	DIV 26	RTU-1	
EF-8	UTILITY FAN	ROOF	480 V	3	3.0 kVA	3.6 A	4.5 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HH1	37,39,41	VFD	MFR	DIV 23	EMS	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 3R	DIV 26	DIV 26	HRE-1	
EF-9	UTILITY FAN	ROOF	480 V	3	3.0 kVA	3.6 A	4.5 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HH1	49,51,53	VFD	MFR	DIV 23	EMS	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 3R	DIV 26	DIV 26	HRE-2	
EF-10	UTILITY FAN	ROOF	480 V	3	3.8 kVA	4.5 A	5.7 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HH1	20,22,24	VFD	MFR	DIV 23	EMS	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 3R	DIV 26	DIV 26	HRE-3	
EF-11	UTILITY FAN	137 VEHICLE COLD STORAGE	480 V	3	6.3 kVA	7.6 A	9.5 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HP8	8,10,12	VFD	MFR	DIV 23	EMS	Div 23	DIV 23	3P-30A UNFUSED, NEMA 3R	DIV 26	DIV 26	-	
EF-12	UTILITY FAN	137 VEHICLE COLD STORAGE	480 V	3	6.3 kVA	7.6 A	9.5 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HP8	2,4,6	VFD	MFR	DIV 23	EMS	Div 23	DIV 23	3P-30A UNFUSED, NEMA 3R	DIV 26	DIV 26	-	
EF-13	UTILITY FAN	FABRICATION SHOP 128	480 V	3	2.8 kVA	3.4 A	4.3 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HH1	43,45,47	VFD	MFR	DIV 23	EMS	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26	-	
EUH-1	ELECTRIC UNIT HEATER	BULK FLUID 126	208 V	1	8.3 kVA	23.0 A	49.8 A	50 A	1	2	6 AWG	Cu	6 AWG	Cu	10 AWG	Cu	1"	LH1	19,21	SINGLE POINT	MFR	DIV 23	INTEGRAL THERMOSTAT	DIV 23	DIV 23	2P-30A UNFUSED, NEMA 1	DIV 26	DIV 26	-	-
EUH-2	ELECTRIC UNIT HEATER	SALT BRINE SHED 138	480 V	3	5.0 kVA	6.0 A	7.5 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HP10	9,11,13	SINGLE POINT	MFR	DIV 23	INTEGRAL THERMOSTAT	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 1	DIV 26	DIV 26	-	-
EUH-3	ELECTRIC UNIT HEATER	SALT BRINE SHED 138	480 V	3	5.0 kVA	6.0 A	7.5 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HP10	2,4,6	SINGLE POINT	MFR	DIV 23	INTEGRAL THERMOSTAT	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 1	DIV 26	DIV 26	-	-
EUH-4	ELECTRIC UNIT HEATER	SALT BRINE SHED 138	480 V	3	5.0 kVA	6.0 A	7.5 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HP10	8,10,12	SINGLE POINT	MFR	DIV 23	INTEGRAL THERMOSTAT	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 1	DIV 26	DIV 26	-	-
EUH-5	ELECTRIC UNIT HEATER	SALT BRINE SHED 138	480 V	3	5.0 kVA	6.0 A	7.5 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HP10	14,16,18	SINGLE POINT	MFR	DIV 23	INTEGRAL THERMOSTAT	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 1	DIV 26	DIV 26	-	-
EUH-6	ELECTRIC UNIT HEATER	VEHICLE COLD STORAGE 137	208 V	1	1.9 kVA	9.2 A	11.4 A	15 A	1	2	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LP8	16,18	SINGLE POINT	MFR	DIV 23	INTEGRAL THERMOSTAT	DIV 23	DIV 23	2P-30A UNFUSED, NEMA 1	DIV 26	DIV 26	-	-
FCU-1	FAN COIL UNIT	FABRICATION OFFICE 129	208 V	1	0.5 kVA	2.3 A	2.9 A	15 A	1	2	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	15,17	SINGLE POINT	MFR	DIV 23	THERMOSTAT	DIV 23	DIV 23	2P-30A UNFUSED, NEMA 1	DIV 26	DIV 26	CU-1	-
FCU-2	FAN COIL UNIT	MECHANIC OFFICE 122	208 V	1	0.5 kVA	2.3 A	2.9 A	15 A	1	2	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	11,13	SINGLE POINT	MFR	DIV 23	THERMOSTAT	DIV 23	DIV 23	2P-30A UNFUSED, NEMA 1	DIV 26	DIV 26	CU-2	-
GMU-1	HVAC PUMP	MEZZANINE 200	120 V	1	1.2 kVA	9.8 A	12.3 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	37	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	PLUG AND CORD	DIV 26	DIV 26	-	-
GMU-2	HVAC PUMP	VEHICLE WASH CLOSET 134	120 V	1	1.2 kVA	9.8 A	12.3 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	39	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	PLUG AND CORD	DIV 26	DIV 26	-	-
GMU-3	HVAC PUMP	MEZZANINE 200	120 V	1	1.2 kVA	9.8 A	12.3 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	41	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	PLUG AND CORD	DIV 26	DIV 26	-	-
GUH-1	GAS-FIRED UNIT HEATER	REPAIR GARAGE 127	120 V	1	0.5 kVA	3.8 A	4.8 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	26	SINGLE POINT	MFR	DIV 23	THERMOSTAT	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26	-	
GUH-2	GAS-FIRED UNIT HEATER	REPAIR GARAGE 127	120 V	1	0.5 kVA	3.8 A	4.8 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	28	SINGLE POINT	MFR	DIV 23	THERMOSTAT	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26	-	
GUH-3	GAS-FIRED UNIT HEATER	REPAIR GARAGE 127	120 V	1	0.5 kVA	3.8 A	4.8 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	30	SINGLE POINT	MFR	DIV 23	THERMOSTAT	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26	-	
GUH-4	GAS-FIRED UNIT HEATER	FABRICATION SHOP 128	120 V	1	0.5 kVA	4.3 A	5.4 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	31	SINGLE POINT	MFR	DIV 23	THERMOSTAT	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26	-	
GUH-5	GAS-FIRED UNIT HEATER	FABRICATION SHOP 128	120 V	1	0.5 kVA	4.3 A	5.4 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	33	SINGLE POINT	MFR	DIV 23	THERMOSTAT	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26	-	
GUH-6	GAS-FIRED UNIT HEATER	PARTS STORAGE 117	120 V	1	0.5 kVA	4.3 A	5.4 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	35	SINGLE POINT	MFR	DIV 23	THERMOSTAT	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26	-	
GUH-7	GAS-FIRED UNIT HEATER	HEATED PARKING GARAGE 130	120 V	1	0.5 kVA	4.3 A	5.4 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	61	SINGLE POINT	MFR	DIV 23	THERMOSTAT	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26	-	
GUH-8	GAS-FIRED UNIT HEATER	HEATED PARKING GARAGE 130	120 V	1	0.5 kVA	4.3 A	5.4 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	63	SINGLE POINT	MFR	DIV 23	THERMOSTAT	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26	-	
GUH-9	GAS-FIRED UNIT HEATER	HEATED PARKING GARAGE 130	120 V	1	0.5 kVA	4.3 A	5.4 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	64	SINGLE POINT	MFR	DIV 23	THERMOSTAT	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26	-	
GUH-10	GAS-FIRED UNIT HEATER	HEATED PARKING GARAGE 130	120 V	1	0.5 kVA	4.3 A	5.4 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	62	SINGLE POINT	MFR	DIV 23	THERMOSTAT	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26	-	
GUH-11	GAS-FIRED UNIT HEATER	VEHICLE WASH 133	120 V	1	0.5 kVA	4.3 A	5.4 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	60	SINGLE POINT	MFR	DIV 23	THERMOSTAT	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26	-	
GUH-12	GAS-FIRED UNIT HEATER	VEHICLE WASH 133	120 V	1	0.5 kVA	4.3 A	5.4 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	58	SINGLE POINT	MFR	DIV 23	THERMOSTAT	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26	-	
HRE-1	POWERED HOSE REEL	128 FABRICATION SHOP FABRICATION SHOP 128	120 V	1	0.9 kVA	7.1 A	8.9 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	32	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26	EF-8	
HRE-2	POWERED HOSE REEL	127 REPAIR GARAGE REPAIR GARAGE 127	120 V	1	0.9 kVA	7.1 A	8.9 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	34	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26	EF-9	
HRE-3	POWERED HOSE REEL	127 REPAIR GARAGE REPAIR GARAGE 127	120 V	1	0.9 kVA	7.1 A	8.9 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	36	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26	EF-10	
HVLS-1	HVLS FAN	HEATED PARKING GARAGE 130	480 V	3	2.9 kVA	3.5 A	4.4 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HH2	13,15,17	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 1	DIV 26	DIV 26		1
HVLS-2	HVLS FAN	HEATED PARKING GARAGE 130	480 V	3	2.9 kVA	3.5 A	4.4 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HH2	19,21,23	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 1	DIV 26	DIV 26		1
HVLS-3	HVLS FAN	HEATED PARKING GARAGE 130	480 V	3	2.9 kVA	3.5 A	4.4 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HH2	20,22,24	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 1	DIV 26	DIV 26		1
HVLS-4	HVLS FAN	HEATED PARKING GARAGE 130	480 V	3	2.9 kVA	3.5 A	4.4 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HH2	25,27,29	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 1	DIV 26	DIV 26		1
HVLS-5	HVLS FAN	VEHICLE WASH 133	480 V	3	2.9 kVA	3.5 A	4.4 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HH2	14,16,18	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 1	DIV 26	DIV 26		1
HVLS-6	HVLS FAN	REPAIR GARAGE 127	480 V	3	2.9 kVA	3.5 A	4.4 A	15 A	1	3	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	HH1	32,34,36	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 1	DIV 26	DIV 26		1
HWP-1	HVAC PUMP	MEZZANINE 200	208 V	1	0.3 kVA	1.5 A	1.9 A	15 A	1	2	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	47,49	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	3P-30A UNFUSED, NEMA 1	DIV 26	DIV 26	B-1	
HWP-2	HVAC PUMP	VEHICLE WASH CLOSET 134	208 V	1	1.5 kVA	7.5 A	9.3 A	20 A	1	2	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	51,53	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	2P-60A UNFUSED, NEMA 1	DIV 26	DIV 26	B-2	
HWP-3	HVAC PUMP	MEZZANINE 200	208 V	1	0.5 kVA	2.3 A	2.9 A	15 A	1	2	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	50,52	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	2P-60A UNFUSED, NEMA 1	DIV 26	DIV 26	B-3	
HWP-4	HVAC PUMP	MEZZANINE 200	208 V	1	0.5 kVA	2.3 A	2.9 A	15 A	1	2	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	54,56	SINGLE POINT	MFR	DIV 23	EMS	DIV 23	DIV 23	2P-60A UNFUSED, NEMA 1	DIV 26	DIV 26	B-3	
IR-1	GAS-FIRED INFRARED	HEATED PARKING GARAGE 130	120 V	1	0.2 kVA	1.3 A	1.6 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	20	SINGLE POINT	MFR	DIV 23	MANUAL SWITCH	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26		
IR-2	GAS-FIRED INFRARED	HEATED PARKING GARAGE 130	120 V	1	0.2 kVA	1.3 A	1.6 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	27	SINGLE POINT	MFR	DIV 23	MANUAL SWITCH	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26		
IR-3	GAS-FIRED INFRARED	HEATED PARKING GARAGE 130	120 V	1	0.2 kVA	1.3 A	1.6 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	29	SINGLE POINT	MFR	DIV 23	MANUAL SWITCH	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26		
IR-4	GAS-FIRED INFRARED	HEATED PARKING GARAGE 130	120 V	1	0.2 kVA	1.3 A	1.6 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	20	SINGLE POINT	MFR	DIV 23	MANUAL SWITCH	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26		
IR-5	GAS-FIRED INFRARED	HEATED PARKING GARAGE 130	120 V	1	0.2 kVA	1.3 A	1.6 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1	27	SINGLE POINT	MFR	DIV 23	MANUAL SWITCH	DIV 23	DIV 23	MOTOR-RATED SWITCH	DIV 26	DIV 26		
IR-6	GAS-FIRED INFRARED	HEATED PARKING GARAGE 130	120 V	1	0.2 kVA	1.3 A	1.6 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LH1

LUMINAIRE SCHEDULE

ID	DESCRIPTION	LENS/LOUVER	MOUNTING	DIRECT LUMENS	INDIRECT LUMENS	TOTAL LUMENS	LAMP	CCT	CRI	PROJECTED LIFE	BALLAST/DRIVER	VOLTAGE	WATTS	W/FT	EMERGENCY COMPONENT	MANUFACTURER	MODEL NUMBER	NOTES
A	2'x4' VOLUMETRIC RECESSED	CURVED RIBBED	LAY-IN	4000 lm	0 lm	4000 lm	INTEGRAL LED	3500 K	82	60,000 h	LED DRIVER, 0-10V DIMMABLE, 1%	277 V	32 W		--	LITHONIA	2BLT4 SERIES	--
AA	LED AREA LUMINAIRE	--	ROUND POLE	18691 lm	0 lm	18691 lm	INTEGRAL LED	3000 K	80	100,000 h	LED DRIVER, 0-10V DIMMABLE	277 V	135 W		--	LITHONIA	DSX2 LED SERIES	INTEGRAL OCC SENSOR FOR 50% LIGHT REDUCTION AFTER 15 MIN VACANCY.
AAP	ROUND STRAIGHT STEEL POLE	--	--	0 lm	0 lm	0 lm	-	0 K	0	0 h	-	0 V	0 W		-	LITHONIA	RSS 20' 5B X X DBLXD	MOUNTING AND OPTIONS AS REQUIRED FOR APPLICATION. TOTAL 23' AFG.
AW	WALL MOUNTED AREA LUMINAIRE	--	SURFACE	4597 lm	0 lm	4597 lm	INTEGRAL LED	3000 K	80	100,000 h	LED DRIVER, 0-10V DIMMABLE	277 V	34 W		--	LITHONIA	DSX0 LED SERIES	--
B	2'x2' VOLUMETRIC RECESSED	CURVED RIBBED	LAY-IN	4034 lm	0 lm	4034 lm	INTEGRAL LED	3500 K	82	60,000 h	LED DRIVER, 0-10V DIMMING, 1%	277 V	32 W		--	LITHONIA	2BLT2 SERIES	--
C	LED HIGH BAY	GLARE CONTROL	SUSPENDED	23740 lm	0 lm	23740 lm	INTEGRAL LED	3500 K	80	100,000 h	LED DRIVER, 0-10V DIMMABLE, 10%	277 V	150 W		--	LITHONIA	CPHB SERIES	--
CE	LED HIGH BAY - EMERGENCY BATTERY	GLARE CONTROL	SUSPENDED	23740 lm	0 lm	23740 lm	INTEGRAL LED	3500 K	80	100,000 h	LED DRIVER, 0-10V DIMMABLE, 10%	277 V	150 W		BATTERY	LITHONIA	CPHB SERIES	--
D1	6" RECESSED DOWNLIGHT	--	RECESSED	1404 lm	0 lm	1404 lm	INTEGRAL LED	3500 K	80	60,000 h	LED DRIVER, 0-10V DIMMING, 1%	277 V	12 W		--	LITHONIA	LDN6 SERIES	--
D1W	6" RECESSED DOWNLIGHT - WET LISTED	--	RECESSED	1404 lm	0 lm	1404 lm	INTEGRAL LED	3500 K	80	60,000 h	LED DRIVER, 0-10V DIMMING, 1%	277 V	12 W		--	LITHONIA	LDN6 SERIES	--
EX	EXIT SIGN, THERMOPLASTIC, RED LETTERING, 1-SIDED	--	UNIVERSAL	0 lm	0 lm	0 lm	INTEGRAL LED	0 K	0	0 h	LED DRIVER	277 V	3 W		--	LITHONIA	LQM SERIES	--
EX2	EXIT SIGN, THERMOPLASTIC, RED LETTERING, 2-SIDED	--	CEILING	0 lm	0 lm	0 lm	INTEGRAL LED	0 K	0	0 h	LED DRIVER	277 V	3 W		--	LITHONIA	LQM SERIES	
EXE	EXIT SIGN, THERMOPLASTIC, RED LETTERING, 1-SIDED - EMERGENCY BATTERY	--	SURFACE	0 lm	0 lm	0 lm	INTEGRAL LED	0 K	0	0 h	LED DRIVER	277 V	3 W		BATTERY	LITHONIA	LQM SERIES	--
EXWP	EXIT SIGN, THERMOPLASTIC, 1-SIDED, RED LETTERS - WEATHERPROOF	--	SURFACE	0 lm	0 lm	0 lm	INTEGRAL LED	0 K	0	0 h	LED DRIVER	277 V	3 W		--	LITHONIA	WLTE SERIES	--
FF	EXTERIOR LED FLOODLIGHT - FLAGPOLE LIGHT	15 DEGREE SPOT	CONCRETE BASE	2000 lm	0 lm	2000 lm	INTEGRAL LED	3500 K	80	50,000 h	LED DRIVER	277 V	23 W		--	ECOSENSE	RISE F080 DUO SERIES	MOUNTING AND OPTIONS AS REQURED FOR APPLICATION. AIM FIXTURES TO ILLUMINATE FLAG.
FF2	EXTERIOR LED FLOODLIGHT - MONUMENT SIGN	60 DEGREE MEDIUM FLOOD	SURFACE MOUNTED ON MONUMENT SIGN BASE	2000 lm	0 lm	2000 lm	INTEGRAL LED	3500 K	80	60,000 h	LED DRIVER	277 V	23 W		--	ECOSENSE	RISE F080 DUO SERIES	MOUNTING AND OPTIONS AS REQURED FOR APPLICATION. AIM FIXTURES TO ILLUMINATE FLAG.
FF3	EXTERIOR LED FLOODLIGHT - BUILDING MOUNTED SIGNAGE	UPLIGHT BACKLIGHT GLARE VISOR	BUILDING MOUNTED	11266 lm	0 lm	11266 lm	INTEGRAL LED	3500 K	80	50,000 h	LED DRIVER	277 V	100 W		--	LITHONIA	DSXF2 SERIES	MOUNTING AND OPTIONS AS REQURED FOR APPLICATION. AIM FIXTURES TO ILLUMINATE FLAG.
HW	LED HIGH BAY - WASH BAY FIXTURE - ENCLOSED, GASKETED, IP67 RATED	FROSTED ACRYLIC	SUSPENDED	18445 lm	0 lm	18445 lm	INTEGRAL LED	3500 K	80	100,000 h	LED DRIVER, 0-10V DIMMABLE, 10%	277 V	113 W		--	LITHONIA	FHE SERIES	--
L1	LINEAR PENDANT	ACRYLIC FROSTED	SUSPENDED	450 lm	643 lm	1093 lm	INTEGRAL LED	3500 K	80	60,000 h	LED DRIVER, 0-10V 1% DIMMABLE	120 V	29 W	5 W	--	MARK	LL60 ST1BWL	LUMENS PER FOOT
L2	LINEAR PENDANT	ACRYLIC FROSTED	SUSPENDED	450 lm	643 lm	1093 lm	INTEGRAL LED	3500 K	80	60,000 h	LED DRIVER, 0-10V 1% DIMMABLE	120 V	19 W	5 W	--	MARK	LL40 ST1BWL	LUMENS PER FOOT
P1	6" CYLINDER DOWNLIGHT - PENDANT	--	SURFACE/SUSPENDED	1500 lm	0 lm	1500 lm	INTEGRAL LED	3500 K	93	60,000 h	LED DRIVER, 0-10V DIMMING, 1%	277 V	14 W		--	LSS	SSC6R CYLINDER SERIES	MOUNTING AND OPTIONS AS REQUIRED FOR APPLICATION.
S4	4' LENSED STRIP	SMOOTH FROSTED	SUSPENDED	3243 lm	0 lm	3243 lm	INTEGRAL LED	3500 K	80	75,000 h	LED DRIVER, 0-10V DIMMABLE, 1%	277 V	25 W		--	LITHONIA	ZL1N SERIES	MOUNTING AND OPTIONS AS REQUIRED FOR APPLICATION.
S4E	<varies>	SMOOTH FROSTED	SUSPENDED	<varies>	0 lm	<varies>	INTEGRAL LED	3500 K	80	75,000 h	LED DRIVER, 0-10V DIMMABLE, 1%	277 V	25 W		BATTERY	LITHONIA	<varies>	<varies>
S5	4' STRIP - CLASS 1, DIV 2 RATED	SMOOTH FROSTED	SUSPENDED	3243 lm	0 lm	3243 lm	INTEGRAL LED	3500 K	80	75,000 h	LED DRIVER, 0-10V DIMMABLE, 1%	277 V	25 W		--	LITHONIA	ZL1N SERIES	MOUNTING AND OPTIONS AS REQUIRED FOR APPLICATION.
S8	8' LED STRIP LIGHT - WASH BAY FIXTURE - ENCLOSED GASKETED IP67 RATED	RIBBED FROSTED ACRYLIC	SURFACE/SUSPENDED	9000 lm	0 lm	9000 lm	INTEGRAL LED	3500 K	80	60,000 h	LED DRIVER, 0-10V DIMMING, 10%	277 V	53 W		--	LITHONIA	FEM SERIES	MOUNTING AND OPTIONS AS REQUIRED FOR APPLICATION.
S8E	8' LED STRIP LIGHT - WASH BAY FIXTURE - ENCLOSED GASKETED IP67 RATED - EMERGENCY BATTERY	RIBBED FROSTED ACRYLIC	SURFACE/SUSPENDED	9000 lm	0 lm	9000 lm	INTEGRAL LED	3500 K	80	60,000 h	LED DRIVER, 0-10V DIMMING, 10%	277 V	53 W		BATTERY	LITHONIA	FEM SERIES	MOUNTING AND OPTIONS AS REQUIRED FOR APPLICATION.
S8W	8' LED STRIP LIGHT - WASH BAY FIXTURE - ENCLOSED GASKETED IP67 RATED - WALL MOUNTED	RIBBED FROSTED ACRYLIC	SURFACE WALL	9000 lm	0 lm	9000 lm	INTEGRAL LED	3500 K	80	60,000 h	LED DRIVER, 0-10V DIMMABLE, 10%	277 V	53 W		--	LITHONIA	FEM SERIES	MOUNTING AND OPTIONS AS REQUIRED FOR APPLICATION.
W1	EXTERIOR WALL PACK - TYPE 2 MEDIUM DISTRIBUTION	--	SURFACE	3064 lm	0 lm	3064 lm	INTEGRAL LED	3500 K	80	100,000 h	LED DRIVER, 0-10V DIMMABLE, 1%	277 V	21 W		--	LITHONIA	DSXW1 LED SERIES	--
W1E	EXTERIOR WALL PACK - TYPE 2 MEDIUM DISTRIBUTION - INTEGRAL BATTERY	--	SURFACE	3064 lm	0 lm	3064 lm	INTEGRAL LED	3500 K	80	100,000 h	LED DRIVER, 0-10V DIMMABLE, 1%	277 V	21 W		BATTERY	LITHONIA	DSXW1 LED SERIES	--
W1I	EXTERIOR WALL PACK - TYPE 2 MEDIUM DISTRIBUTION [ON INVERTER CIRCUIT]	--	SURFACE	3064 lm	0 lm	3064 lm	INTEGRAL LED	3500 K	80	100,000 h	LED DRIVER, 0-10V DIMMABLE, 1%	277 V	21 W		--	LITHONIA	DSXW1 LED SERIES	--

NOTES:
1. OVERHEAD LIGHT FIXTURES IN SPACES WITH CEILING FANS SHALL BE INSTALLED BELOW THE PLANE OF THE LOWEST CEILING FANS, TO MITIGATE STROBE EFFECT. COORDINATE INSTALLATION WITH MECHANICAL AND STRUCTURAL ACCORDINGLY.
2. ACCEPTABLE MANUFACTURERS INCLUDE:
   A. LITHONIA
   B. ACUITY
   C. COOPER
   D. KENALL
3. FINISH SELECTIONS BY ARCHITECT.

SPECIAL EQUIPMENT CONNECTION SCHEDULE

	LOCATION		ELECTRICAL					CIRCUIT											DISCONNECT				
					APPARENT				PHASE CONDUCTORS			NEUTRAL CONDUCTOR		GROUND CONDUCTOR		CONDUIT							
EQUIPMENT DESCRIPTION	NAME	NO.	VOLTAGE	PHASE	POWER	FLA	MCA	OCP	RUNS	NO.	SIZE	TYPE	SIZE	TYPE	SIZE	TYPE	SIZE	PANEL	CIRCUIT	TYPE	FURNISH	INSTALL	INTERLOCK	NOTES
HYPERTHERM PLASMA CUTTER	FABRICATION SHOP	128	208 V	3	15.1 kVA	42 A	53 A	70 A	1	3	6 AWG	Cu	6 AWG	Cu	8 AWG	Cu	1"	LP1	28,30,32	3P-100A UNFUSED, NEMA 1	DIV 26	DIV 26		
BRINE SHED PUMP SKID	SALT BRINE SHED	138	208 V	3	8.6 kVA	24 A	30 A	70 A	1	3	8 AWG	Cu	8 AWG	Cu	8 AWG	Cu	1"	LP10	16,18,20	3P-100A UNFUSED, NEMA 1	DIV 26	DIV 26		
BRINE HOPPER	SALT BRINE SHED	138	208 V	3	8.6 kVA	24 A	30 A	70 A	1	3	8 AWG	Cu	8 AWG	Cu	8 AWG	Cu	1"	LP10	10,12,14	3P-100A UNFUSED, NEMA 1	DIV 26	DIV 26		
BRINE SHED PUMP SKID 120V	SALT BRINE SHED	138	120 V	1	1.4 kVA	12 A	15 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LP10	5	MOTOR RATED SWITCH	DIV 26	DIV 26		
MILLER MIG WELDER	FABRICATION SHOP	128	208 V	3	31.3 kVA	87 A	109 A	150 A	1	3	1 AWG	Cu	1 AWG	Cu	6 AWG	Cu	1 1/2"	LP1	34,36,38	PLUG AND CORD	DIV 26	DIV 26		
LATHE	FABRICATION SHOP	128	208 V	3	8.6 kVA	24 A	30 A	30 A	1	3	10 AWG	Cu	10 AWG	Cu	10 AWG	Cu	3/4"	LP1	22,24,26	PLUG AND CORD	DIV 26	DIV 26		
CNC MILLING	FABRICATION SHOP	128	208 V	3	14.4 kVA	40 A	50 A	50 A	1	3	6 AWG	Cu	6 AWG	Cu	10 AWG	Cu	1"	LP1	13,15,17	PLUG AND CORD	DIV 26	DIV 26		
BAND SAW	FABRICATION SHOP	128	120 V	1	1.5 kVA	13 A	16 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LP1	1	PLUG AND CORD	DIV 26	DIV 26		
DRILL PRESS	REPAIR GARAGE	127	208 V	1	1.4 kVA	7 A	9 A	20 A	1	2	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LP2	8,10	PLUG AND CORD	DIV 26	DIV 26		
BENCH GRINDER	REPAIR GARAGE	127	120 V	1	1.9 kVA	16 A	20 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LP2	19	PLUG AND CORD	DIV 26	DIV 26		
BENCH GRINDER	REPAIR GARAGE	127	120 V	1	1.9 kVA	16 A	20 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LP2	1	PLUG AND CORD	DIV 26	DIV 26		
TIRE BALANCER	REPAIR GARAGE	127	120 V	1	1.2 kVA	10 A	13 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LP2	5	PLUG AND CORD	DIV 26	DIV 26		
SMALL TIRE CHANGER	REPAIR GARAGE	127	120 V	1	1.8 kVA	15 A	19 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LP2	4	PLUG AND CORD	DIV 26	DIV 26		
LARGE TIRE CHANGER	REPAIR GARAGE	127	208 V	1	4.8 kVA	23 A	29 A	30 A	1	2	10 AWG	Cu	10 AWG	Cu	10 AWG	Cu	3/4"	LP2	11,13	PLUG AND CORD	DIV 26	DIV 26		
TWO POST VEHICLE LIFT	REPAIR GARAGE	127	208 V	3	7.2 kVA	20 A	25 A	25 A	1	3	10 AWG	Cu	10 AWG	Cu	10 AWG	Cu	3/4"	LP2	27,29,31	3P-30A UNFUSED, NEMA 1	DIV 26	DIV 26		
DRIVE ON VEHICLE LIFT	REPAIR GARAGE	127	208 V	3	21.6 kVA	60 A	75 A	80 A	1	3	3 AWG	Cu	3 AWG	Cu	8 AWG	Cu	1 1/4"	LP2	30,32,34	3P-100A UNFUSED, NEMA 1	DIV 26	DIV 26		
LIFT POWER UNIT	REPAIR GARAGE	127	120 V	1	1.9 kVA	16 A	20 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LP2	12	MOTOR RATED SWITCH	DIV 26	DIV 26		
SAND BLAST BOOTH	REPAIR GARAGE	127	120 V	1	1.9 kVA	16 A	20 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LP2	6	MOTOR RATED SWITCH	DIV 26	DIV 26		
SOLVENT BASED PARTS WASHER	REPAIR GARAGE	127	120 V	1	0.2 kVA	1 A	2 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LP2	15	PLUG AND CORD	DIV 26	DIV 26		
SOLVENT BASED PARTS WASHER	REPAIR GARAGE	127	120 V	1	0.2 kVA	1 A	2 A	15 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LP2	14	PLUG AND CORD	DIV 26	DIV 26		
GARAGE DOOR OPENER	REPAIR GARAGE	127	120 V	1	1.9 kVA	16 A	20 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LR3	35	CIRCUIT BREAKER	DIV 26	DIV 26		
GARAGE DOOR OPENER	REPAIR GARAGE	127	120 V	1	1.9 kVA	16 A	20 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LR3	22	CIRCUIT BREAKER	DIV 26	DIV 26		
GARAGE DOOR OPENER	REPAIR GARAGE	127	120 V	1	1.9 kVA	16 A	20 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LR3	11	CIRCUIT BREAKER	DIV 26	DIV 26		
GARAGE DOOR OPENER	REPAIR GARAGE	127	120 V	1	1.9 kVA	16 A	20 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LR3	32	CIRCUIT BREAKER	DIV 26	DIV 26		
GARAGE DOOR OPENER	HEATED PARKING GARAGE	130	120 V	1	1.9 kVA	16 A	20 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LR6	12	CIRCUIT BREAKER	DIV 26	DIV 26		
GARAGE DOOR OPENER	HEATED PARKING GARAGE	130	120 V	1	1.9 kVA	16 A	20 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LR6	11	CIRCUIT BREAKER	DIV 26	DIV 26		
GARAGE DOOR OPENER	VEHICLE WASH	133	120 V	1	1.9 kVA	16 A	20 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LR7	4	CIRCUIT BREAKER	DIV 26	DIV 26		
GARAGE DOOR OPENER	VEHICLE WASH	133	120 V	1	1.9 kVA	16 A	20 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LR7	7	CIRCUIT BREAKER	DIV 26	DIV 26		
GARAGE DOOR OPENER	HEATED PARKING GARAGE	130	120 V	1	1.9 kVA	16 A	20 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LR5	1	CIRCUIT BREAKER	DIV 26	DIV 26		
GARAGE DOOR OPENER	HEATED PARKING GARAGE	130	120 V	1	1.9 kVA	16 A	20 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LR5	3	CIRCUIT BREAKER	DIV 26	DIV 26		
GARAGE DOOR OPENER	HEATED PARKING GARAGE	130	120 V	1	1.9 kVA	16 A	20 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LR2	7	CIRCUIT BREAKER	DIV 26	DIV 26		
GARAGE DOOR OPENER	HEATED PARKING GARAGE	130	120 V	1	1.9 kVA	16 A	20 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LR2	6	CIRCUIT BREAKER	DIV 26	DIV 26		
STEAM PARTS WASHER	REPAIR GARAGE	127	208 V	1	3.3 kVA	16 A	20 A	20 A	1	2	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LP2	7,9	2P-30A UNFUSED, NEMA 1	DIV 26	DIV 26		
A/C MACHINE	MECHANIC TOOLS	124	120 V	1	1.2 kVA	10 A	13 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LP2	3	PLUG AND CORD	DIV 26	DIV 26		
BATTERY CHARGERS	MECHANIC TOOLS	124	120 V	1	1.2 kVA	10 A	12 A	20 A	1	1	12 AWG	Cu	12 AWG	Cu	12 AWG	Cu	3/4"	LP2	2	PLUG AND CORD	MFR	MFR		
10 TON BRIDGE CRANE	REPAIR GARAGE	127	480 V	3	49.9 kVA	60 A	75 A	80 A	1	3	3 AWG	Cu	3 AWG	Cu	8 AWG	Cu	1 1/4"	HP1	7,9,11	3P-100A UNFUSED, NEMA 1	DIV 26	DIV 26		
5 TON BRIDGE CRANE	FABRICATION SHOP	128	480 V	3	24.9 kVA	30 A	38 A	40 A	1	3	8 AWG	Cu	8 AWG	Cu	10 AWG	Cu	3/4"	HP1	8,10,12	3P-60A UNFUSED, NEMA 1	DIV 26	DIV 26		
5 TON BRIDGE CRANE	FABRICATION SHOP	128	480 V	3	24.9 kVA	30 A	38 A	40 A	1	3	8 AWG	Cu	8 AWG	Cu	10 AWG	Cu	3/4"	HP1	2,4,6	3P-60A UNFUSED, NEMA 1	DIV 26	DIV 26		

NOTES:
1. COORDINATE INSTALLATION OF EQUIPMENT DISCONNECT WITH EQUIPMENT MANUFACTURER AND OWNER. VERIFY DISCONNECT TYPE, RATING, LOCATION AND MOUNTING REQUIREMENTS MEET MANUFACTURER SPECIFICATIONS PRIOR TO INSTALLATION.

CORD REEL SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL
CR1	120V, 1 PHASE, 20A RETRACTABLE NEMA 5-20R CORD REEL - 50' CORD WITH SINGLE INDUSTRIAL RECEPTACLE	GRACO	SD SERIES 5
CR2	208V, 1 PHASE, 20A RETRACTABLE NEMA L6-20R CORD REEL - 50' CORD	GRACO	SD SERIES 5

FLOOR BOX SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL	NOTES
F1	4 GANG FLOOR BOX - 2 DUPLEX	LEGRAND	RFBA4C300G	

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DATE	DESCRIPTION

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SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
ELECTRICAL SCHEDULES

SHEET
E802

SWITCHBOARD: MSB

LOCATION: SITE
SUPPLY FROM: UTILITY TRANSFORMER
MOUNTING: HOUSEKEEPING PAD
ENCLOSURE: NEMA 3R

VOLTS: 480Y/277
PHASES: 3
WIRES: 4

SCCR RATING: 42 kA
MAINS TYPE: MCB
BUS RATING: 1600 A
MAINS RATING: 1600 A

NOTES:

CKT	CIRCUIT DESCRIPTION	# OF POLES	FRAME SIZE	TRIP RATING	LOAD	FN/NOTE
1	DHP1 (MISC POWER)	3	1000 A	1000 A	662703 VA	METERED
2	HLX1 (EXTERIOR LIGHTING)	3	200 A	125 A	2779 VA	METERED
3	HH1 (HVAC)	3	400 A	400 A	127267 VA	METERED
4	HL1 (INTERIOR LIGHTING)	3	400 A	225 A	46673 VA	METERED
5	DHR1 (RECEPTACLES)	3	400 A	400 A	229389 VA	METERED
6	SPACE	3	--	--	--	
7	SPACE	3	--	--	--	
8	SPACE	3	--	--	--	
9	SPACE	3	--	--	--	
10	SPACE	3	--	--	--	
				TOTAL CONN. LOAD:	1068811 VA	
				TOTAL AMPS:	1286 A	

LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Motor	503400 VA	102.48%	515871 VA		
Lighting	57918 VA	125.00%	72397 VA	**TOTAL CONN. LOAD:**	1068811 VA
Receptacle - General	100760 VA	54.96%	55380 VA	**TOTAL EST. DEMAND:**	1057917 VA
Receptacle - Dedicated	226940 VA	100.00%	226940 VA	**TOTAL CONN:**	1286 A
Electric Heat	30143 VA	125.00%	37679 VA	**TOTAL EST. DEMAND:**	1272 A
Power	149649 VA	100.00%	149649 VA		

NOTES:

BREAKER FUNCTION SCHEDULE

#	FOR ANY NUMBER, SEE PANEL SCHEDULE FOOTER NOTE
A	ARC-FAULT INTERRUPTER (AFCI) PROTECTION
AR	ARC ENERGY REDUCTION MAINTENANCE SWITCH
D	DEMOLISHED CIRCUIT (NOW SPARE OR SPACE) (FORMER CIRCUIT IN BRACKETS)
E	EXISTING-TO-REMAIN CIRCUIT
EM	PROVIDE IDENTIFICATION PER NEC 700.12(I)(2)(4)
G	GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION (5 mA)
GE	GROUND-FAULT PROTECTION FOR EQUIPMENT (30 mA)
GF	ADJUSTABLE GROUND-FAULT PROTECTION FOR EQUIPMENT
H	HACR BREAKER
L	LOCKABLE OPEN ACCORDING TO NEC 110.25
LSI	LONG-TIME, SHORT-TIME, INSTANTANEOUS ADJUSTMENT
LSIG	LONG-TIME, SHORT-TIME, INSTANTANEOUS AND GROUND-FAULT ADJUSTMENTS
N	NEW CIRCUIT (IN EXISTING PANEL, PREVIOUSLY SPARE OR SPACE)
NB	NEW BREAKER TO REPLACE EXISTING BREAKER OR SPACE (NEW TRIP RATING SHOWN)
NR	NEW CIRCUIT TO REPLACE EXISTING CIRCUIT (FORMER CIRCUIT IN BRACKETS)
R	RELOCATED CIRCUIT
S	SWITCH-RATED PER NEC 240.83(D)

Panelboard: DHP1

LOCATION:
SUPPLY: MSB
MOUNTING: Surface
ENCLOSURE: NEMA 1

VOLTAGE: 480 V, 3Ø, 4W
BUS RATING: 1000 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: 350; -

MAINS TYPE: MCB
MAINS RATING: 1000 A
MAINS FN/NOTE: -
SCCR: 22 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)	PHASE B LOAD (VA)	PHASE C LOAD (VA)	FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1					74365	49883						2
3	HP1	400	3			72829	49883		3	225	HP1A (FAB SHOP)	4
5							72829	49883				6
7					48215	7157						8
9	HP2	400	3			45226	7157		3	100	LP5 VIA TP5	10
11							46423	7157				12
13					4239	4165						14
15	HP6	125	3			4625	2305		3	50	LP7 VIA TP7	16
17							4239	2305				18
19					16872	3520						20
21	HP8	125	3			19801	3376		3	125	HP9	22
23							19218	2077				24
25					17013	0						26
27	HP10 (BRINE SHED)	125	3			13788	0		3	20	SPARE	28
29							14148	0				30
31					0	0						32
33	SPARE	20	3			0	0		3	20	SPARE	34
35							0	0				36
37					0	0						38
39	SPARE	20	3			0	0		3	20	SPARE	40
41							0	0				42
43					0	0						44
45	SPARE	20	3			0	0		3	20	SPARE	46
47							0	0				48
49					0	0						50
51	SPARE	20	3			0	0		3	20	SPARE	52
53							0	0				54
55					0	0						56
57	SPARE	20	3			0	0		3	20	SPARE	58
59							0	0				60
				Connected Load:	225 kVA	219 kVA	218 kVA					
				Connected Current:	814 A	791 A	788 A					

Load Classification	Connected		Demand
Motor	358315 VA		370786 VA
Lighting	8317 VA		10396 VA
Receptacle - General	13860 VA		11930 VA
Receptacle - Dedicated	110704 VA		110704 VA
Electric Heat	21857 VA		27321 VA
Power	149649 VA		149649 VA

Panel Totals	
Connected Load:	663 kVA
Connected Current:	797 A
Demand Load:	681 kVA
Demand Current:	819 A

Notes:

Panelboard: DHR1

LOCATION:
SUPPLY: MSB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 480 V, 3Ø, 4W
BUS RATING: 400 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: 350; -

MAINS TYPE: MCB
MAINS RATING: 400 A
MAINS FN/NOTE: -
SCCR: 22 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)	PHASE B LOAD (VA)	PHASE C LOAD (VA)	FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1					2970	4800						2
3	LR1 VIA TR1	150	3			3960	3780		3	150	LR2 VIA TR2	4
5							2610	5340				6
7					12100	34426						8
9	LR3 VIA TR3	150	3			13630	30340		3	200	LR4 VIA TR4	10
11							12130	34543				12
13					1920	19110						14
15	LR5 VIA TR5	150	3			1920	18650		3	150	LR6 VIA TR6	16
17							0	17200				18
19					2640	0						20
21	LR7 VIA TR7	150	3			2640	0		3	20	SPARE	22
23							4680	0				24
25					0	0						26
27	SPARE	20	3			0	0		3	20	SPARE	28
29							0	0				30
31					0	0						32
33	SPARE	20	3			0	0		3	20	SPARE	34
35							0	0				36
37					0	0						38
39	SPARE	20	3			0	0		3	20	SPARE	40
41							0	0				42
				Connected Load:	78 kVA	75 kVA	77 kVA					
				Connected Current:	282 A	270 A	277 A					

Load Classification	Connected		Demand
Motor	26104 VA		26584 VA
Lighting	149 VA		187 VA
Receptacle - General	86900 VA		48450 VA
Receptacle - Dedicated	116236 VA		116236 VA

Panel Totals	
Connected Load:	229 kVA
Connected Current:	276 A
Demand Load:	191 kVA
Demand Current:	230 A

Notes:

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SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
PANEL SCHEDULES

SHEET
E803

Panelboard: HH1

LOCATION: MEZZANINE 200
SUPPLY: MSB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 480 V, 3Ø, 4W
BUS RATING: 400 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: 200; -

MAINS TYPE: MCB
MAINS RATING: 400 A
MAINS FN/NOTE: -
SCCR: 22 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1					12428	5533									2
3	LH1 VIA TH1	100	3				13641	5533							4
5									9897	5533					6
7					0	797									8
9	SPARE	20	3				0	797			H	3	15	MUA-3	10
11									0	797					12
13					1330	2106									14
15	EF-1	15	3				1330	2106				3	20	EF-2	16
17									1330	2106					18
19					2018	1256									20
21	MUA-1	30	3	H			2018	1256				3	15	EF-10	22
23									2018	1256					24
25					499	2106									26
27	EF-4	15	3				499	2106				3	20	EF-3	28
29									499	2106					30
31					1330	970									32
33	RTU-1	20	3	H			1330	970				3	20	HVLS-6	34
35									1330	970					36
37					1008	499									38
39	EF-8	15	3				1008	499				3	15	EF-5	40
41									1008	499					42
43					942	0									44
45	EF-13	15	3				942	0				3	20	SPARE	46
47									942	0					48
49					1008	0									50
51	EF-9	15	3				1008	0				3	20	SPARE	52
53									1008	0					54
55					9030	0									56
57	MUA-2	60	3	H			9030	0				3	20	SPARE	58
59									9030	0					60
					Connected Load:	43 kVA		44 kVA		40 kVA					
					Connected Current:	156 A		161 A		146 A					

Load Classification	Connected		Demand
Motor	118981 VA		125754 VA
Electric Heat	8286 VA		10358 VA

Panel Totals	
Connected Load:	127 kVA
Connected Current:	153 A
Demand Load:	136 kVA
Demand Current:	164 A

Notes:

Panelboard: HH2

LOCATION: HEATED PARKING GARAGE 130
SUPPLY: HH1
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 480 V, 3Ø, 4W
BUS RATING: 125 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: 200; -

MAINS TYPE: MCB
MAINS RATING: 100 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1					292	305									2
3	MUA-4	15	3	H			292	305				3	15	EF-7	4
5									292	305					6
7					558	499									8
9	MUA-5	15	3	H			558	499				3	15	EF-6	10
11									558	499					12
13					970	0									14
15	HVLS-1	15	3				970	0				3	15	HVLS-5	16
17									970	0					18
19					970	970									20
21	HVLS-2	15	3				970	970				3	15	HVLS-3	22
23									970	970					24
25					970	0									26
27	HVLS-4	15	3				970	0				3	20	SPARE	28
29									970	0					30
31					0	0									32
33	SPARE	20	3				0	0				3	20	SPARE	34
35									0	0					36
37					0	0									38
39	SPARE	20	3				0	0				3	20	SPARE	40
41									0	0					42
43					0	0									44
45	SPARE	20	3				0	0				3	20	SPARE	46
47									0	0					48
49					0	0									50
51	SPARE	20	3				0	0				3	20	SPARE	52
53									0	0					54
55					0	0									56
57	SPARE	20	3				0	0				3	20	SPARE	58
59									0	0					60
					Connected Load:	6 kVA		6 kVA		6 kVA					
					Connected Current:	20 A		20 A		20 A					

Load Classification	Connected		Demand
Motor	16599 VA		17327 VA

Panel Totals	
Connected Load:	17 kVA
Connected Current:	20 A
Demand Load:	17 kVA
Demand Current:	21 A

Notes:

Panelboard: LH1

LOCATION: MEZZANINE 200
SUPPLY: TH1
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 208 V, 3Ø, 4W
BUS RATING: 225 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: -

MAINS TYPE: MCB
MAINS RATING: 225 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	CUH-1	20	1		95	480					H	2	15	CU-3	2
3	CUH-2	20	1				95	480							4
5	HWP-02	20	1						255	372		1	15	CF-1	6
7	CF-4	15	1		372	0						1	20	SPARE	8
9	CF-3	15	1				372	80			H	2	20	AC-1	10
11	FCU-2	20	2						243	80					12
13					243	312						1	20	IR-7,10	14
15	FCU-1	20	2				243	1352			H	2	20	CU-1	16
17									243	1352					18
19	EUH-1	50	2		4143	312						1	20	IR-1,4	20
21							4143	312				1	20	IR-8,11	22
23	CU-2	20	2	H					1352	312		1	20	IR-9,12	24
25					1352	456						1	15	GUH-1	26
27	IR-2,5	20	1				312	456				1	15	GUH-2	28
29	IR-6,3	20	1						312	456		1	15	GUH-3	30
31	GUH-4	15	1		516	857						1	15	HRE-1	32
33	GUH-5	15	1				516	857				1	15	HRE-2	34
35	GUH-6	15	1						516	857		1	15	HRE-3	36
37	GMU-1	20	1		1176	77						1	15	B-1 (BOILER)	38
39	GMU-2	20	1				1176	312				1	15	B-3 (BOILER)	40
41	GMU-3	20	1						1176	312		1	15	B-4 (BOILER)	42
43	SPARE	20	1		0	0						1	20	SPARE	44
45	SPARE	20	1				0	0				1	20	SPARE	46
47	HWP-1	15	2						154	0		1	20	SPARE	48
49					154	240									50
51	HWP-2	20	2				775	240				2	15	HWP-3	52
53									775	239					54
55	CF-3	15	1		372	239						2	15	HWP-4	56
57	CF-2	15	1				372	516				1	15	GUH-12	58
59	CF-1	15	1						374	516		1	15	GUH-11	60
61	GUH-7	15	1		516	516						1	15	GUH-10	62
63	GUH-8	15	1				516	516				1	15	GUH-9	64
65	SPARE	20	1						0	0		1	20	SPARE	66
67	SPARE	20	1		0	0						1	20	SPARE	68
69	SPARE	20	1				0	0				1	20	SPARE	70
71	SPARE	20	1						0	0		1	20	SPARE	72
					Connected Load:	12 kVA		14 kVA		10 kVA					
					Connected Current:	107 A		117 A		82 A					

Load Classification	Connected		Demand
Motor	27681 VA		28357 VA
Electric Heat	8286 VA		10358 VA

Panel Totals	
Connected Load:	36 kVA
Connected Current:	100 A
Demand Load:	39 kVA
Demand Current:	107 A

Notes:

Panelboard: INVERTER

LOCATION: MEZZANINE 200
SUPPLY: HL1
MOUNTING: Surface
ENCLOSURE: NEMA 1

VOLTAGE: 277V, 1ϕ, 3W 3, 4W
BUS RATING: 60 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: 3500; -

MAINS TYPE: MCB
MAINS RATING: 60 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	EXITS - HEATED PKG GARAGE 130	20	1		10	1407						1	20	LTG - EM - PARTS, OFFICE	2
3	LTG - EM - OVER DOORS	20	1				163	2861				1	20	LTG - EM - HEATED PKG GARAGE	4
5	LTG - EM - REPAIR, FAB SHOP	20	1						3046	1185		1	20	LTG - EM - WASH BAY	6
7	LTG - EM - OVER DOORS	20	1		140	2833						1	20	LTG - EM - HEATED PKG GARAGE	8
9	EXIT SIGNS - REPAIR, FAB SHOP	20	1				30	0				1	20	SPARE	10
11	EXIT SIGNS - PARTS, OFFICES	20	1						57	0		1	20	SPARE	12
					Connected Load:	4 kVA		3 kVA		4 kVA					
					Connected Current:	17 A		11 A		16 A					

Load Classification	Connected		Demand
Lighting	11732 VA		14665 VA

Panel Totals	
Connected Load:	12 kVA
Connected Current:	14 A
Demand Load:	15 kVA
Demand Current:	18 A

Notes:
THIS EQUIPMENT IS NOT REPRESENTING A SEPARATE PANELBOARD. THIS SCHEDULE INDICATES THE BREAKERS INTEGRAL TO THE CENTRAL INVERTER FOR EMERGENCY EGRESS LIGHTING.

Panelboard: HLX1

LOCATION: MEZZANINE 200
SUPPLY: MSB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 480 V, 3Ø, 4W
BUS RATING: 125 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: 200; -

MAINS TYPE: MCB
MAINS RATING: 125 A
MAINS FN/NOTE: -
SCCR: 14 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	SITE LTG - S DRIVEWAY AND LOT	20	1		1650	113						1	20	EXT LTG - SOUTHWEST	2
3	FLAG POLE LIGHTS	20	1				26	162				1	20	EXT LTG - SIGNAGE ILLUMINATION	4
5	SITE LTG - N DRIVEWAY	20	1						450	227		1	20	EXT LTG - NORTHEAST	6
7	SPARE	20	1		0	0						1	20	SPARE	8
9	SPARE	20	1				0	151				1	20	EXT LTG - NORTHWEST	10
11	SPARE	20	1						0	0		1	20	SPARE	12
13	SPARE	20	1		0	0						1	20	SPARE	14
15	SPARE	20	1				0	0				1	20	SPARE	16
17	SPARE	20	1						0	0		1	20	SPARE	18
19	SPARE	20	1		0	0						1	20	SPARE	20
21	SPARE	20	1				0	0				1	20	SPARE	22
23	SPARE	20	1						0	0		1	20	SPARE	24
25	SPARE	20	1		0	0						1	20	SPARE	26
27	SPARE	20	1				0	0				1	20	SPARE	28
29	SPARE	20	1						0	0		1	20	SPARE	30
					Connected Load:	2 kVA		0 kVA		1 kVA					
					Connected Current:	7 A		1 A		3 A					

Load Classification	Connected		Demand
Lighting	2779 VA		3474 VA

Panel Totals	
Connected Load:	3 kVA
Connected Current:	3 A
Demand Load:	3 kVA
Demand Current:	4 A

Notes:

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REVISIONS

	DATE	DESCRIPTION
1		

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SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
PANEL SCHEDULES

SHEET
E804

Panelboard: HP1

LOCATION: REPAIR GARAGE 127
SUPPLY: DHP1
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 480 V, 3Ø, 4W
BUS RATING: 400 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: 350; -

MAINS TYPE: MCB
MAINS RATING: 400 A
MAINS F/N/NOTE: -
SCCR: 22 kA

CKT	DESCRIPTION	TRIP (A)	POLES	F/N/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		F/N/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1					41110	8314									2
3	TP1	200	3				39574	8314				3	40	5 TON BRIDGE CRANE	4
5									39574	8314					6
7					16628	8314									8
9	10 TON BRIDGE CRANE	80	3				16628	8314				3	40	5 TON BRIDGE CRANE	10
11									16628	8314					12
13	SPARE	20	1		0	0						1	20	SPARE	14
15	SPARE	20	1				0	0				1	20	SPARE	16
17	SPARE	20	1						0	0		1	20	SPARE	18
19	SPARE	20	1		0	0						1	20	SPARE	20
21	SPARE	20	1				0	0				1	20	SPARE	22
23	SPARE	20	1						0	0		1	20	SPARE	24
25	SPARE	20	1		0	0						1	20	SPARE	26
27	SPARE	20	1				0	0				1	20	SPARE	28
29	SPARE	20	1						0	0		1	20	SPARE	30
31	SPACE	--	1		--	--						1	--	SPACE	32
33	SPACE	--	1				--	--				1	--	SPACE	34
35	SPACE	--	1						--	--		1	--	SPACE	36
37	SPACE	--	1		--	--						1	--	SPACE	38
39	SPACE	--	1				--	--				1	--	SPACE	40
41	SPACE	--	1						--	--		1	--	SPACE	42
				Connected Load:	74 kVA		73 kVA		73 kVA						
				Connected Current:	268 A		263 A		263 A						

Load Classification	Connected		Demand
Motor	147545 VA		160016 VA
Receptacle - Dedicated	72478 VA		72478 VA

Panel Totals	
Connected Load:	220 kVA
Connected Current:	265 A
Demand Load:	232 kVA
Demand Current:	280 A

Notes:

Panelboard: HP1A

LOCATION: FABRICATION SHOP 128
SUPPLY: DHP1
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 480 V, 3Ø, 4W
BUS RATING: 225 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: 200; -

MAINS TYPE: MCB
MAINS RATING: 225 A
MAINS F/N/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	F/N/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		F/N/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	SPACE	--	1		--	--						1	--	SPACE	2
3	SPACE	--	1				--	--				1	--	SPACE	4
5	SPACE	--	1						--	--		1	--	SPACE	6
7	SPACE	--	1		--	--						1	--	SPACE	8
9	SPACE	--	1				--	--				1	--	SPACE	10
11	SPACE	--	1						--	--		1	--	SPACE	12
13	SPACE	--	1		--	--						1	--	SPACE	14
15	SPACE	--	1				--	--				1	--	SPACE	16
17	SPACE	--	1						--	--		1	--	SPACE	18
19	SPACE	--	1		--	--						1	--	SPACE	20
21	SPACE	--	1				--	--				1	--	SPACE	22
23	SPACE	--	1						--	--		1	--	SPACE	24
25	SPACE	--	1		--	--						1	--	SPACE	26
27	SPACE	--	1				--	--				1	--	SPACE	28
29	SPACE	--	1						--	--		1	--	SPACE	30
31	SPACE	--	1		--	--						1	--	SPACE	32
33	SPACE	--	1				--	--				1	--	SPACE	34
35	SPACE	--	1						--	--		1	--	SPACE	36
37	SPACE	--	1		--	--						1	--	SPACE	38
39	SPACE	--	1				--	--				1	--	SPACE	40
41	SPACE	--	1						--	--		1	--	SPACE	42
43	SPACE	--	1				--	--				1	--	SPACE	44
45	SPACE	--	1						--	--		1	--	SPACE	46
47	SPACE	--	1							--		1	--	SPACE	48
49	SPACE	--	1		--	--						1	--	SPACE	50
51	SPACE	--	1				--	--				1	--	SPACE	52
53	SPACE	--	1						--	--		1	--	SPACE	54
55	[FUTURE LOAD TABULATION FOR FAB SHOP]	20	3	1	49883	--						1	--	SPACE	56
57							49883	--				1	--	SPACE	58
59									49883	--		1	--	SPACE	60
				Connected Load:	50 kVA		50 kVA		50 kVA						
				Connected Current:	180 A		180 A		180 A						

Load Classification	Connected		Demand
Power	149649 VA		149649 VA

Panel Totals	
Connected Load:	150 kVA
Connected Current:	180 A
Demand Load:	150 kVA
Demand Current:	180 A

Notes:
PROVIDE PANEL TO SERVE FUTURE FABRICATION SHOP EXPANSION NEEDS.
1. LOADS INDICATED ARE FOR CALCULATION PURPOSES ONLY.

Panelboard: HP2

LOCATION: MEZZANINE 200
SUPPLY: DHP1
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 480 V, 3Ø, 4W
BUS RATING: 225 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: 200; -

MAINS TYPE: MCB
MAINS RATING: 225 A
MAINS F/N/NOTE: -
SCCR: 22 kA

CKT	DESCRIPTION	TRIP (A)	POLES	F/N/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		F/N/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1					7482	5000									2
3	CA-1	70	3	H			7482	5000				3	20	FIRE PUMP HOUSE	4
5									7482	5000					6
7					30613	5000									8
9	LP2 VIA TP2	200	3				27624	5000				3	20	WATER TANK CIRC. AND HEATER	10
11									28820	5000					12
13	SPARE	20	1		0	120									14
15	SPARE	20	1				0	120				3	20	SEPTIC CIRC PUMP	16
17	SPARE	20	1						0	120					18
19	SPARE	20	1		0	0						1	20	SPARE	20
21	SPARE	20	1				0	0				1	20	SPARE	22
23	SPARE	20	1						0	0		1	20	SPARE	24
25	SPARE	20	1		0	0						1	20	SPARE	26
27	SPARE	20	1				0	0				1	20	SPARE	28
29	SPARE	20	1						0	0		1	20	SPARE	30
31	SPARE	20	1		0	0						1	20	SPARE	32
33	SPARE	20	1				0	0				1	20	SPARE	34
35	SPARE	20	1						0	0		1	20	SPARE	36
37	SPARE	20	1		0	0						1	20	SPARE	38
39	SPARE	20	1				0	0				1	20	SPARE	40
41	SPARE	20	1						0	0		1	20	SPARE	42
				Connected Load:	48 kVA		45 kVA		46 kVA						
				Connected Current:	175 A		163 A		168 A						

Load Classification	Connected		Demand
Motor	123756 VA		129368 VA
Receptacle - General	360 VA		360 VA
Receptacle - Dedicated	15748 VA		15748 VA

Panel Totals	
Connected Load:	140 kVA
Connected Current:	168 A
Demand Load:	145 kVA
Demand Current:	175 A

Notes:

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DATE	DESCRIPTION

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SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
PANEL SCHEDULES

SHEET
E805

Panelboard: HP6

LOCATION: HEATED PARKING GARAGE 130
SUPPLY: DHP1
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 480 V, 3Ø, 4W
BUS RATING: 125 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: 200; -

MAINS TYPE: MCB
MAINS RATING: 125 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1					360	1940									2
3	LP6B VIA TP6B	60	3				746	1940				3	20	HOTSY PRESSURE WASHER	4
5									360	1940					6
7	SPARE	20	1		0	1940									8
9	SPARE	20	1				0	1940				3	20	HOTSY PRESSURE WASHER	10
11	SPARE	20	1						0	1940					12
13	SPARE	20	1		0	0						1	20	SPARE	14
15	SPARE	20	1				0	0				1	20	SPARE	16
17	SPARE	20	1						0	0		1	20	SPARE	18
19	SPARE	20	1		0	0						1	20	SPARE	20
21	SPARE	20	1				0	0				1	20	SPARE	22
23	SPARE	20	1						0	0		1	20	SPARE	24
25	SPARE	20	1		0	0						1	20	SPARE	26
27	SPARE	20	1				0	0				1	20	SPARE	28
29	SPARE	20	1						0	0		1	20	SPARE	30
				Connected Load:	4 kVA		5 kVA		4 kVA						
				Connected Current:	15 A		17 A		15 A						

Load Classification	Connected		Demand
Motor	746 VA		933 VA
Receptacle - Dedicated	12358 VA		12358 VA

Panel Totals	
Connected Load:	13 kVA
Connected Current:	16 A
Demand Load:	13 kVA
Demand Current:	16 A

Notes:

Panelboard: HP8

LOCATION: VEHICLE COLD STORAGE 137
SUPPLY: DHP1
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R

VOLTAGE: 480 V, 3Ø, 4W
BUS RATING: 125 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: 200; -

MAINS TYPE: MCB
MAINS RATING: 125 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1					7653	2106									2
3	TP8	60	3				7145	2106				3	20	EF-12	4
5									7705	2106					6
7	LGHT HIGH BAY COLD STORAGE	20	1		2500	2106									8
9	LGHT HIGH BAY COLD STORAGE	20	1				2056	2106				3	20	EF-11	10
11	LGHT EXTERIOR COLD STORAGE	20	1						912	2106					12
13					2500	7						1	20	COLD STORAGE EXIT SIGNS	14
15	CA-2	35	3	H			2500	3889				2	20	WELL PUMP	16
17									2500	3889					18
19	SPARE	20	1		0	0						1	20	SPARE	20
21	SPARE	20	1				0	0				1	20	SPARE	22
23	SPARE	20	1						0	0		1	20	SPARE	24
25	SPARE	20	1		0	0						1	20	SPARE	26
27	SPARE	20	1				0	0				1	20	SPARE	28
29	SPARE	20	1						0	0		1	20	SPARE	30
				Connected Load:	17 kVA		20 kVA		19 kVA						
				Connected Current:	61 A		73 A		71 A						

Load Classification	Connected		Demand
Motor	31373 VA		33317 VA
Lighting	5474 VA		6843 VA
Receptacle - General	7740 VA		7740 VA
Receptacle - Dedicated	9400 VA		9400 VA
Electric Heat	1904 VA		2380 VA

Panel Totals	
Connected Load:	56 kVA
Connected Current:	67 A
Demand Load:	60 kVA
Demand Current:	72 A

Notes:

Panelboard: HP9

LOCATION: COLD STORAGE 136
SUPPLY: DHP1
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R

VOLTAGE: 480 V, 3Ø, 4W
BUS RATING: 125 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: 200; -

MAINS TYPE: MCB
MAINS RATING: 125 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	LGHT HIGH BAY COLD STORAGE	20	1		1503	0						1	20	SPARE	2
3	LGHT HIGH BAY COLD STORAGE	20	1				1000	0				1	20	SPARE	4
5	LGHT EXTERIOR COLD STORAGE	20	1						61	0		1	20	SPARE	6
7					2016	0						1	20	SPARE	8
9	TS9	20	3				2376	0				1	20	SPARE	10
11									2016	0		1	20	SPARE	12
13	SPARE	20	1		0	0						1	20	SPARE	14
15	SPARE	20	1				0	0				1	20	SPARE	16
17	SPARE	20	1						0	0		1	20	SPARE	18
19	SPARE	20	1		0	0						1	20	SPARE	20
21	SPARE	20	1				0	0				1	20	SPARE	22
23	SPARE	20	1						0	0		1	20	SPARE	24
25	SPARE	20	1		0	0						1	20	SPARE	26
27	SPARE	20	1				0	0				1	20	SPARE	28
29	SPARE	20	1						0	0		1	20	SPARE	30
				Connected Load:	4 kVA		3 kVA		2 kVA						
				Connected Current:	13 A		13 A		7 A						

Load Classification	Connected		Demand
Motor	1729 VA		2161 VA
Lighting	2564 VA		3206 VA
Receptacle - General	4680 VA		4680 VA

Panel Totals	
Connected Load:	9 kVA
Connected Current:	11 A
Demand Load:	10 kVA
Demand Current:	12 A

Notes:

Panelboard: HP10

LOCATION: SALT BRINE SHED EXTERIOR
SUPPLY: DHP1
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R

VOLTAGE: 480 V, 3Ø, 4W
BUS RATING: 225 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: 200; -

MAINS TYPE: MCB
MAINS RATING: 225 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	A		B		C		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	LIGHT SALT BRINE SHED	20	1		278	1663									2
3							7137	1663				3	15	EUH-3	4
5	TP10	60	3						7497	1663					6
7					10084	1663									8
9							1663	1663				3	15	EUH-4	10
11	EUH-2	15	3						1663	1663					12
13					1663	1663									14
15	SPARE	20	1				0	1663				3	15	EUH-5	16
17	SPARE	20	1						0	1663					18
19	SPARE	20	1		0	0						1	20	SPARE	20
21	SPARE	20	1				0	0				1	20	SPARE	22
23	SPARE	20	1						0	0		1	20	SPARE	24
25	SPARE	20	1		0	0						1	20	SPARE	26
27	SPARE	20	1				0	0				1	20	SPARE	28
29	SPARE	20	1						0	0		1	20	SPARE	30
				Connected Load:	17 kVA		14 kVA		14 kVA						
				Connected Current:	62 A		50 A		51 A						

Load Classification	Connected		Demand
Motor	22919 VA		25081 VA
Lighting	278 VA		347 VA
Receptacle - General	1080 VA		1080 VA
Receptacle - Dedicated	720 VA		720 VA
Electric Heat	19953 VA		24942 VA

Panel Totals	
Connected Load:	45 kVA
Connected Current:	54 A
Demand Load:	52 kVA
Demand Current:	63 A

Notes:

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DATE	DESCRIPTION

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SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
PANEL SCHEDULES

SHEET
E806

Panelboard: HL1

LOCATION: MEZZANINE 200
SUPPLY: MSB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 480 V, 3Ø, 4W
BUS RATING: 225 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: 200; -

MAINS TYPE: MCB
MAINS RATING: 225 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	LTG - REPAIR GAR SUPPORT RMS	20	1		208	544						1	20	LTG - ENTRY, CORR, BOH SPACES	2
3	LTG - OFFICE RESTROOMS, WELLNES	20	1				809	1535				1	20	LTG - FAB SHOP,OFFICE	4
5	LTG - PARTS STORAGE 117	20	1						556	2484		1	20	LTG - VEHICLE WASH 133	6
7	LTG - OFFICES, BREAKROOM	20	1		805	3000						1	20	LTG - REPAIR GARAGE 127 - S	8
9	LTG - HEATED PARKING GARAGE 130	20	1				2167	4390							10
11	LTG - REPAIR GARAGE 127 - MID	20	1						2833	3054		3	30	INVERTER (EM EGRESS LTG)	12
13	LTG - HEATED PARKING GARAGE 130	20	1		1000	4287									14
15	LTG - HEATED PARKING GARAGE 130	20	1				1000	1167				1	20	LTG - HEATED PARKING GARAGE 130	16
17	LTG - HEATED PARKING GARAGE 130	20	1						1000	1167		1	20	LTG - HEATED PARKING GARAGE 130	18
19	LTG - HEATED PARKING GARAGE 130	20	1		1167	1667						1	20	LTG - HEATED PARKING GARAGE 130	20
21	LTG - HEATED PARKING GARAGE 130	20	1				1667	2833				1	20	LTG - HEATED PARKING GARAGE 130	22
23	LTG - HEATED PARKING GARAGE 130	20	1						1667	2833		1	20	LTG - REPAIR GARAGE 127 - N	24
25	LTG - HEATED PARKING GARAGE 130	20	1		2833	0						1	20	SPARE	26
27	SPARE	20	1				0	0				1	20	SPARE	28
29	SPARE	20	1						0	0		1	20	SPARE	30
31	SPARE	20	1		0	0						1	20	SPARE	32
33	SPARE	20	1				0	0				1	20	SPARE	34
35	SPARE	20	1						0	0		1	20	SPARE	36
37	SPARE	20	1		0	0						1	20	SPARE	38
39	SPARE	20	1				0	0				1	20	SPARE	40
41	SPARE	20	1						0	0		1	20	SPARE	42
				Connected Load:	16 kVA		16 kVA		16 kVA						
				Connected Current:	56 A		56 A		56 A						

Load Classification	Connected		Demand
Lighting	46673 VA		58341 VA

Panel Totals	
Connected Load:	47 kVA
Connected Current:	56 A
Demand Load:	58 kVA
Demand Current:	70 A

Notes:

Panelboard: LP1

LOCATION: REPAIR GARAGE 127
SUPPLY: TP1
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 208 V, 3Ø, 4W
BUS RATING: 400 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: 200; -

MAINS TYPE: MCB
MAINS RATING: 400 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	A		B		C		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	BAND SAW - FABRICATION 128	20	1		1536	4160						2	50	WELDER - FABRICATION 128	2
3	WELDER - FABRICATION 128	50	2				4160	4160							4
5									4160	4160		2	50	WELDER - FABRICATION 128	6
7	GARAGE DOOR - FAB SHOP	20	3		576	4160									8
9							576	576							10
11									576	576		3	20	GARAGE DOOR - NORTH REPAIR GARAGE	12
13					4803	576									14
15	CNC MILLING - FABRICATION 128	50	3				4803	576							16
17									4803	576		3	20	GARAGE DOOR 127C - REPAIR GARAGE 127	18
19					6000	576									20
21	COLUMN LIFT - REPAIR GARAGE 127	20	3				6000	2882							22
23									6000	2882		3	30	LATHE - FABRICATION 128	24
25	5 TON CRANE CONTROL	20	1		360	2882									26
27	5 TON CRANE CONTROL	20	1				360	5044							28
29	10 TON CRANE CONTROL	20	1						360	5044		3	70	PLASMA CUTTER - FABRICATION 128	30
31	SPARE	20	1		0	5044									32
33	SPARE	20	1				0	10436							34
35	SPARE	20	1						0	10436		3	150	MIG WELDER - FABRICATION 128	36
37	SPARE	20	1		0	10436									38
39	SPARE	20	1				0	0				1	20	SPARE	40
41	SPARE	20	1						0	0		1	20	SPARE	42
				Connected Load:	41 kVA		40 kVA		40 kVA						
				Connected Current:	343 A		330 A		330 A						

Load Classification	Connected		Demand
Motor	47779 VA		52279 VA
Receptacle - Dedicated	72478 VA		72478 VA

Panel Totals	
Connected Load:	120 kVA
Connected Current:	334 A
Demand Load:	125 kVA
Demand Current:	346 A

Notes:

Panelboard: LP2

LOCATION: MEZZANINE 200
SUPPLY: TP2
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 208 V, 3Ø, 4W
BUS RATING: 400 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: 200; -

MAINS TYPE: MCB
MAINS RATING: 400 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	A		B		C		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	BENCH GRINDER - GARAGE 127	20	1		1920	1180						1	20	BATTERY CHARGER - TOOLS 124	2
3	A/C MACHINE - TOOLS 124	20	1				1200	1800				1	20	SM TIRE CHANGER - GARAGE 127	4
5	TIRE BALANCER - GARAGE 127	20	1						1200	1920		1	20	SAND BLAST BOOTH REPAIR GARAGE	6
7	STEAM PARTS WASHER - GARAGE 127	20	2		1664	707						2	20	DRILL PRESS - GARAGE 127	8
9							1664	707							10
11	LG TIRE CHANGER - GARAGE 127	30	2						2392	1920		1	20	LIFT POWER UNIT - GARAGE 127	12
13					2392	168						1	20	PARTS WASHER - GARAGE 127	14
15	PARTS WASHER - GARAGE 127	20	1				168	0				1	20	SPARE	16
17	SPARE	20	1						0	576		3	20	GARAGE DOOR - TO HEATED GARAGE - REPAIR GARAGE 127	18
19	BENCH GRINDER - GARAGE 127	20	1		1920	576									20
21	GARAGE DOOR - TO HEATED GARAGE - REPAIR GARAGE 127	20	3				576	576							22
23									576	576					24
25					576	576						3	20	GARAGE DOOR - TO PARTS STORAGE 117	26
27							2402	576							28
29	2 POST LIFT - GARAGE 127	25	3						2402	14052					30
31					2402	14052						3	20	DRIVE ON VEH LIFT - GARAGE 127	32
33	W LG TIRE CHANGER - GARAGE 127	20	2				1477	14052							34
35									1477	576					36
37	W SM TIRE CHANGER - GARAGE 127	20	1		750	576						3	20	GARAGE DOOR - FAB/REPAIR	38
39	W TIRE BALANCER - GARAGE 127	20	1				696	576							40
41	GARAGE DOOR 127B - REPAIR GARAGE	20	3						576	576					42
43					576	576						3	20	GARAGE DOOR 127D - REPAIR GARAGE 127	44
45							576	576							46
47	SPARE	20	1						0	0		1	20	SPARE	48
49	SPARE	20	1		0	0						1	20	SPARE	50
51	SPARE	20	1				0	0				1	20	SPARE	52
53	SPARE	20	1						0	0		1	20	SPARE	54
55	SPACE	--	1		--	--						1	--	SPACE	56
57	SPACE	--	1				--	--				1	--	SPACE	58
59	SPACE	--	1						--	--		1	--	SPACE	60
				Connected Load:	31 kVA		28 kVA		29 kVA						
				Connected Current:	257 A		230 A		242 A						

Load Classification	Connected		Demand
Motor	71309 VA		76714 VA
Receptacle - Dedicated	15748 VA		15748 VA

Panel Totals	
Connected Load:	87 kVA
Connected Current:	242 A
Demand Load:	92 kVA
Demand Current:	257 A

Notes:

Panelboard: LP5

LOCATION: HEATED PARKING GARAGE 130
SUPPLY: TP5
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 208 V, 3Ø, 4W
BUS RATING: 225 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: -

MAINS TYPE: MCB
MAINS RATING: 200 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	GARAGE DOOR - NORTHWEST - HEATED GARAGE	20	3		576	0						1	20	SPARE	2
3							576	0				1	20	SPARE	4
5									576	0		1	20	SPARE	6
7	GARAGE DOOR - NORTHEAST - HEATED GARAGE	20	3		576	0						1	20	SPARE	8
9							576	0				1	20	SPARE	10
11									576	0		1	20	SPARE	12
13	DBP-1	70	3		6004	0						1	20	SPARE	14
15							6004	0				1	20	SPARE	16
17									6004	0		1	20	SPARE	18
19	SPARE	20	1		0	0						1	20	SPARE	20
21	SPARE	20	1				0	0				1	20	SPARE	22
23	SPARE	20	1						0	0		1	20	SPARE	24
25	SPARE	20	1		0	0						1	20	SPARE	26
27	SPARE	20	1				0	0				1	20	SPARE	28
29	SPARE	20	1						0	0		1	20	SPARE	30
31	SPARE	20	1		0	0						1	20	SPARE	32
33	SPARE	20	1				0	0				1	20	SPARE	34
35	SPARE	20	1						0	0		1	20	SPARE	36
37	SPARE	20	1		0	0						1	20	SPARE	38
39	SPARE	20	1				0	0				1	20	SPARE	40
41	SPARE	20	1						0	0		1	20	SPARE	42
				Connected Load:	7 kVA		7 kVA		7 kVA						
				Connected Current:	60 A		60 A		60 A						

Load Classification	Connected		Demand
Motor	21471 VA		25975 VA

Panel Totals	
Connected Load:	21 kVA
Connected Current:	60 A
Demand Load:	26 kVA
Demand Current:	72 A

Notes:

Panelboard: LP6

LOCATION:
SUPPLY: TP6
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R

VOLTAGE: 208 V, 3Ø, 4W
BUS RATING: 125 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: -

MAINS TYPE: MCB
MAINS RATING: 125 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	WEIGH STATION	20	1		360	0						1	20	MOTORIZED GATE	2
3	ACCESS PEDESTAL	20	1				0	0				1	20	SPARE	4
5	SPARE	20	1						0	0		1	20	SPARE	6
7	SPARE	20	1		0	0						1	20	SPARE	8
9	SPARE	20	1				0	0				1	20	SPARE	10
11	SPARE	20	1						0	0		1	20	SPARE	12
13	SPARE	20	1		0	0						1	20	SPARE	14
15	SPARE	20	1				0	0				1	20	SPARE	16
17	SPARE	20	1						0	0		1	20	SPARE	18
19	SPARE	20	1		0	0						1	20	SPARE	20
21	SPARE	20	1				0	0				1	20	SPARE	22
23	SPARE	20	1						0	0		1	20	SPARE	24
25	SPARE	20	1		0	0						1	20	SPARE	26
27	SPARE	20	1				0	0				1	20	SPARE	28
29	SPARE	20	1						0	0		1	20	SPARE	30
				Connected Load:	0 kVA		1 kVA		0 kVA						
				Connected Current:	3 A		6 A		3 A						

Load Classification	Connected		Demand
Motor	746 VA		933 VA
Receptacle - Dedicated	720 VA		720 VA

Panel Totals	
Connected Load:	1 kVA
Connected Current:	4 A
Demand Load:	2 kVA
Demand Current:	5 A

Notes:

Panelboard: LP7

LOCATION: HEATED PARKING GARAGE 130
SUPPLY: TP7
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 208 V, 3Ø, 4W
BUS RATING: 125 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: -

MAINS TYPE: MCB
MAINS RATING: 125 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	A		B		C		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	B-1	20	1		1860	576									2
3							576	576				3	20	GARAGE DOOR - NORTH - WASH BAY	4
5	GARAGE DOOR - SOUTH - WASH BAY	20	3						576	576					6
7					576	576									8
9	GARAGE DOOR - SOUTHWEST - HEATED GARAGE	20	3				576	576				3	20	GARAGE DOOR - SOUTHEAST - HEATED GARAGE	10
11									576	576					12
13					576	0						1	20	SPARE	14
15	SPARE	20	1				0	0				1	20	SPARE	16
17	SPARE	20	1						0	0		1	20	SPARE	18
19	SPARE	20	1		0	0						1	20	SPARE	20
21	SPARE	20	1				0	0				1	20	SPARE	22
23	SPARE	20	1						0	0		1	20	SPARE	24
25	SPARE	20	1		0	0						1	20	SPARE	26
27	SPARE	20	1				0	0				1	20	SPARE	28
29	SPARE	20	1						0	0		1	20	SPARE	30
				Connected Load:	4 kVA		2 kVA		2 kVA						
				Connected Current:	35 A		19 A		19 A						

Load Classification	Connected		Demand
Motor	8776 VA		9241 VA

Panel Totals	
Connected Load:	9 kVA
Connected Current:	24 A
Demand Load:	9 kVA
Demand Current:	26 A

Notes:

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SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
PANEL SCHEDULES

SHEET
E807

Load Center: LP8

LOCATION: VEHICLE COLD STORAGE 137
SUPPLY: TP8
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R

VOLTAGE: 208 V, 3Ø, 4W
BUS RATING: 125 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: -

MAINS TYPE: MCB
MAINS RATING: 125 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	DED. REC. COLD STORAGE	20	1		180	180						1	20	DED. REC. COLD STORAGE	2
3	RECEPT - NORTH WALL	20	1				720	720				1	20	RECEPT - NORTH WALL	4
5	WALL DED. REC. COLD STORAGE	20	2						90	4250		2	20	WALL DED. REC. COLD STORAGE	6
7					90	4250									8
9	RECEPT - NORTHWEST CORNER	20	1				720	720				1	20	RECEPT - SOUTH WALL	10
11	EXTERIOR RECPT - WEST	20	1						180	180		1	20	DED. REC. COLD STORAGE	12
13	DED. REC. COLD STORAGE	20	1		180	180						1	20	DED. REC. COLD STORAGE	14
15	RECEPT - NORTHEAST CORNER	20	1				900	952				2	35	EUH-6	16
17	DED. REC. COLD STORAGE	20	1						180	952					18
19	RECEPT - SOUTH WALL	20	1		720	0						1	20	SPARE	20
21	EXTERIOR RECPT - EAST	20	1				180	180				1	20	DED. REC. COLD STORAGE	22
23	RECEPT - SOUTHWEST CORNER	20	1						720	0		1	20	SPARE	24
25	DOOR ACCESS - WEST	20	1		360	360						1	20	DOOR ACCESS - EAST	26
27	DED. REC. COLD STORAGE	20	1				180	720				1	20	RECEPT - SOUTHEAST CORNER	28
29	EAST GARAGE DOOR - COLD STORAGE 137	20	3						576	576		3	20	WEST GARAGE DOOR - COLD STORAGE 137	30
31					576	576									32
33							576	576							34
35	SPARE	20	1						0	0		1	20	SPARE	36
37	SPARE	20	1		0	0						1	20	SPARE	38
39	SPARE	20	1				0	0				1	20	SPARE	40
41	SPARE	20	1						0	0		1	20	SPARE	42
				Connected Load:	8 kVA		7 kVA		8 kVA						
				Connected Current:	64 A		60 A		65 A						

Load Classification	Connected		Demand
Motor	3458 VA		3890 VA
Receptacle - General	7740 VA		7740 VA
Receptacle - Dedicated	9400 VA		9400 VA
Electric Heat	1904 VA		2380 VA

Panel Totals	
Connected Load:	23 kVA
Connected Current:	62 A
Demand Load:	23 kVA
Demand Current:	65 A

Notes:

Panelboard: LP9

LOCATION: COLD STORAGE 136
SUPPLY: TS9
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R

VOLTAGE: 208 V, 3Ø, 4W
BUS RATING: 125 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: -

MAINS TYPE: MCB
MAINS RATING: 125 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	EXTERIOR RECPT - WEST	20	1		180	540						1	20	RECEPT - SOUTH WALL - WEST	2
3	RECEPT - NORTH WALL - EAST	20	1				720	720				1	20	RECEPT - NORTH WALL -WEST	4
5	RECEPT - SOUTH WALL- EAST	20	1						720	720		1	20	RECEPT - WEST WALL	6
7	RECEPT - EAST WALL	20	1		720	576									8
9	DOOR ACCESS -WEST	20	1				360	576				3	20	EAST GARAGE DOOR OPENER	10
11	SPARE	20	1						0	576					12
13	SPARE	20	1		0	0						1	20	SPARE	14
15	SPARE	20	1				0	0				1	20	SPARE	16
17	SPARE	20	1						0	0		1	20	SPARE	18
19	SPARE	20	1		0	0						1	20	SPARE	20
21	SPARE	20	1				0	0				1	20	SPARE	22
23	SPARE	20	1						0	0		1	20	SPARE	24
25	SPARE	20	1		0	0						1	20	SPARE	26
27	SPARE	20	1				0	0				1	20	SPARE	28
29	SPARE	20	1						0	0		1	20	SPARE	30
				Connected Load:	2 kVA		2 kVA		2 kVA						
				Connected Current:	17 A		20 A		17 A						

Load Classification	Connected		Demand
Motor	1729 VA		2161 VA
Receptacle - General	4680 VA		4680 VA

Panel Totals	
Connected Load:	6 kVA
Connected Current:	18 A
Demand Load:	7 kVA
Demand Current:	19 A

Notes:

Load Center: LP10

LOCATION: SALT BRINE SHED EXTERIOR
SUPPLY: TP10
MOUNTING: SURFACE
ENCLOSURE: NEMA 3R

VOLTAGE: 208 V, 3Ø, 4W
BUS RATING: 125 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: -

MAINS TYPE: MCB
MAINS RATING: 125 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	EXTERIOR RECPT - WEST	20	1		180	180						1	20	RECEPT - EAST WALL	2
3	BRINE SYSTEM CONTROL PANEL 1	20	1				360	360				1	20	BRINE SYSTEM CONTROL PANEL 2	4
5	PUMP SKID 120V CONNECTION	15	1						1440	0		1	20	SPARE	6
7	RECEPT - SOUTH WALL	20	1		180	180						1	20	RECEPT - WEST WALL	8
9	DOOR ACCESS	20	1				360	2882				3	30	BRINE HOPPER	10
11	SPARE	20	1						0	2882					12
13	HWP-X	20	2		653	2882									14
15							653	2882							16
17	BRINE SHED WELL PUMP	30	1						2880	2882		3	30	PUMP SKID	18
19	SPARE	20	1		0	2882									20
21	SPARE	20	1				0	0				1	20	SPARE	22
23	SPARE	20	1						0	0		1	20	SPARE	24
25	SPARE	20	1		0	0						1	20	SPARE	26
27	SPARE	20	1				0	0				1	20	SPARE	28
29	SPARE	20	1						0	0		1	20	SPARE	30
				Connected Load:	7 kVA		7 kVA		10 kVA						
				Connected Current:	59 A		63 A		84 A						

Load Classification	Connected		Demand
Motor	22919 VA		25081 VA
Receptacle - General	1080 VA		1080 VA
Receptacle - Dedicated	720 VA		720 VA

Panel Totals	
Connected Load:	25 kVA
Connected Current:	69 A
Demand Load:	27 kVA
Demand Current:	75 A

Notes:

Panelboard: LR1

LOCATION: REPAIR GARAGE 127
SUPPLY: TR1
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 208 V, 3Ø, 4W
BUS RATING: 225 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: -

MAINS TYPE: MCB
MAINS RATING: 225 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	RCPT - FABRICATION 128	20	1		180	360						1	20	GENERATOR BATT CHARGING	2
3	RCPT - OFFICE 129	20	1				360	360				1	20	GENERATOR BLOCK HEATER	4
5	RCPT - OFFICE 129	20	1						720	360		1	20	GENERATOR RECPT.	6
7	RCPT - CORD REEL FABRICATION 128	20	1	GFCI	540	360						1	20	RCPT - EXTERIOR	8
9	RCPT - CORD REEL FABRICATION 128	20	1	GFCI			720	720				1	20	RCPT - FABRICATION 128	10
11	RCPT - FABRICATION 128	20	1						540	540		1	20	RCPT - FABRICATION 128	12
13	RCPT - FABRICATION 128	20	1		540	540						1	20	RCPT - FABRICATION 128	14
15	RCPT - FABRICATION 128	20	1				360	540				1	20	RCPT - FABRICATION 128	16
17	DEDICATED RCPT FABRICATION SHOP 128	20	2						90	90		2	20	DEDICATED RCPT FABRICATION SHOP 128	18
19					90	90									20
21	DEDICATED RCPT FABRICATION SHOP 128	20	2				90	540				1	20	RCPT - FABRICATION 128	22
23									90	90		2	20	DEDICATED RCPT FABRICATION SHOP 128	24
25					90	90									26
27							90	90							28
29	SPARE	20	1						0	90		2	20	DEDICATED RCPT FABRICATION SHOP 128	30
31	SPARE	20	1		0	90									32
33	SPARE	20	1				0	90							34
35	SPARE	20	1						0	0		1	20	SPARE	36
37	SPARE	20	1		0	0						1	20	SPARE	38
39	SPARE	20	1				0	0				1	20	SPARE	40
41	SPARE	20	1						0	0		1	20	SPARE	42
				Connected Load:	3 kVA		4 kVA		3 kVA						
				Connected Current:	25 A		33 A		22 A						

Load Classification	Connected		Demand
Receptacle - General	7560 VA		7560 VA
Receptacle - Dedicated	1980 VA		1980 VA

Panel Totals	
Connected Load:	10 kVA
Connected Current:	26 A
Demand Load:	10 kVA
Demand Current:	26 A

Notes:

Panelboard: LR2

LOCATION: MEZZANINE 200
SUPPLY: TR2
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 208 V, 3Ø, 4W
BUS RATING: 125 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: -

MAINS TYPE: MCB
MAINS RATING: 225 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	RCPT - BATHROOM 125	20	1		180	540						1	20	RCPT - WORKSTATIONS 123	2
3	RCPT - WORKSTATIONS 123	20	1				540	540				1	20	RCPT - WORKSTATIONS 123	4
5	RCPT - OFFICE 122	20	1						1260	1920		1	20	DOOR OPENER - GARAGE 127	6
7	DOOR OPENER - GARAGE 127	20	1		1920	720						1	20	RCPT - REPAIR GARAGE 127	8
9	RCPT - TOOLS 124	20	1				900	720				1	20	RCPT - ROOFTOP NORTH	10
11	RCPT. - MECH TOOLS	20	1						720	1440		1	20	RCPT. - BULK FLUID	12
13	SPARE	20	1		0	1440						1	20	RCPT. - BULK FLUID	14
15	RCPT - MEZZANINE	20	1				720	360				1	20	WASTE OIL OVERFILL ALARM	16
17	SPARE	20	1						0	0		1	20	SPARE	18
19	SPARE	20	1		0	0						1	20	SPARE	20
21	SPARE	20	1				0	0				1	20	SPARE	22
23	SPARE	20	1						0	0		1	20	SPARE	24
25	SPARE	20	1		0	0						1	20	SPARE	26
27	SPARE	20	1				0	0				1	20	SPARE	28
29	SPARE	20	1						0	0		1	20	SPARE	30
				Connected Load:	5 kVA		4 kVA		5 kVA						
				Connected Current:	41 A		32 A		46 A						

Load Classification	Connected		Demand
Motor	3840 VA		4320 VA
Receptacle - General	10080 VA		10040 VA

Panel Totals	
Connected Load:	14 kVA
Connected Current:	39 A
Demand Load:	14 kVA
Demand Current:	40 A

Notes:

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SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
PANEL SCHEDULES

SHEET
E808

Panelboard: LR3

LOCATION: REPAIR GARAGE 127
SUPPLY: TR3
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 208 V, 3Ø, 4W
BUS RATING: 225 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: -

MAINS TYPE: MCB
MAINS RATING: 225 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	EXT RCPT - REPAIR GAR...	20	1		180	360						1	20	RCPT - LUBE RACK	2
3	RCPT - REPAIR GARAGE BENCH	20	1				180	180				1	20	RCPT - GARAGE 127	4
5	RCPT - GARAGE 127	20	1						180	900	GFCI	1	20	RCPT - CORD REEL GARAGE 127	6
7	RCPT - GARAGE 127	20	1		720	720						1	20	RCPT - GARAGE 127	8
9	RCPT - UTILITY RACK	20	1				360	90				2	20	DEDICATED RCPT REPAIR GARAGE	10
11	DOOR OPENER - GARAGE 127	20	1						1920	90					12
13	RCPT - CORD REEL GARAGE 127	20	1	GFCI	1080	4250						2	20	208V RCPT - UTILITY RACK	14
15	RCPT - GARAGE 127	20	1				720	4250							16
17									1250	180		1	20	RCPT - REPAIR GARAGE BENCH	18
19	DEDICATED RCPT REPAIR GARAGE	20	2		1250	180						1	20	RCPT - REPAIR GARAGE BENCH	20
21	208V RCPT - UTILITY RACK	20	2				4250	1920				1	20	DOOR OPENER - GARAGE 127	22
23									4250	180	GFCI	1	20	RCPT - UTILITY CART CORD REEL	24
25	RCPT - GARAGE 127	20	1		180	360						1	20	RCPT - LUBE RACK	26
27	SPARE	20	1				0	1320				1	20	BENCH GRINDER - UTILITY CART	28
29	RCPT - UTILITY RACK	20	1						360	540		1	20	RCPT - REPAIR GARAGE 127	30
31	RCPT - CENTER GARAGE 127	20	1		540	1920						1	20	DOOR OPENER - GARAGE 127	32
33	SPARE	20	1				0	90				2	20	DEDICATED RECEPTACLE REPAIR GARAGE	34
35	DOOR OPENER - GARAGE 127	20	1						1920	90					36
37	DEDICATED RCPT REPAIR GARAGE	20	2		90	90						2	20	DEDICATED RECEPTACLE REPAIR GARAGE	38
39							90	90							40
41	DEDICATED RCPT REPAIR GARAGE	20	2						90	90		2	20	DEDICATED RECEPTACLE REPAIR GARAGE	42
43					90	90									44
45	DEDICATED RCPT REPAIR GARAGE	20	2				90	0				1	20	SPARE	46
47									90	0		1	20	SPARE	48
49	SPARE	20	1		0	0						1	20	SPARE	50
51	SPARE	20	1				0	0				1	20	SPARE	52
53	SPARE	20	1						0	0		1	20	SPARE	54
55	SPARE	20	1		0	0						1	20	SPARE	56
57	SPARE	20	1				0	0				1	20	SPARE	58
59	SPARE	20	1						0	0		1	20	SPARE	60
				Connected Load:	12 kVA		14 kVA		12 kVA						
				Connected Current:	101 A		114 A		101 A						

Load Classification	Connected		Demand
Motor	9000 VA		9480 VA
Receptacle - General	10600 VA		10300 VA
Receptacle - Dedicated	18260 VA		18260 VA

Panel Totals	
Connected Load:	38 kVA
Connected Current:	105 A
Demand Load:	38 kVA
Demand Current:	106 A

Notes:

Panelboard: LR4A

LOCATION: MECHANICAL 114
SUPPLY: TR4
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 208 V, 3Ø, 4W
BUS RATING: 400 A
NEUTRAL: 100%
FEED-THRU LUGS: Yes
FEATURES & MODIFICATIONS: 200; -

MAINS TYPE: MCB
MAINS RATING: 400 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	RCPT. - MENS 111	20	1		180	0						1	20	SPARE	2
3	RCPT. - MENS 111	20	1				180	540				1	20	RCPT. - PATROL SUPT. & OPS. MGR 106	4
5	SPARE	20	1						0	540		1	20	RCPT. - RECORD & ARCHIVE 110	6
7	FRIDGE - ASSEMBLY & LUNCH RM 116	20	1		700	720						1	20	RCPT. - PATROL SUPT. & OPS. MGR 106	8
9	FRIDGE - ASSEMBLY & LUNCH RM 116	20	1				700	1000				1	20	AUTO DOORS - ENTRY VEST 99	10
11	EWC - ASSEMBLY ROOM	20	1						720	1000		1	20	COPIER - RECORD & ARCHIVE 110	12
13	RCPT. CONV - WOMENS, MENS	20	1		1080	1440						1	20	RCPT. - CONFERENCE 102	14
15	RCPT. - CONFERENCE 102	20	1				720	1800				1	20	BOOT DRYER REC - MENS 111	16
17	RCPT. - CONFERENCE 102	20	1						180	3328					18
19	RCPT. - CONFERENCE 102	20	1		180	3328						2	40	RCPT. - RANGE	20
21	BOOT DRYER RCPT - WOMENS 112	20	1				1800	180				1	20	RCPT. - ASSEMBLY & LUNCH ROOM 116	22
23	RCPT. - MICROWAVE	20	1						1600	180		1	20	RCPT. - ASSEMBLY & LUNCH ROOM 116	24
25	SPARE	20	1		0	180						1	20	RCPT. - ASSEMBLY & LUNCH ROOM 116	26
27	RCPT. - ADMIN ASSISTANT 100	20	1				360	1800				1	20	RCPT. - DISHWASHER	28
29	RCPT. - ASSEMBLY & LUNCH RM 116	20	1						180	180		1	20	RCPT. - RESTROOM 107	30
31	RCPT. - ASSEMBLY & LUNCH RM 116	20	1		180	180						1	20	RCPT. - RESTROOM 108	32
33	RCPT. - ASSEMBLY & LUNCH RM 116	20	1				180	180				1	20	RCPT. - WOMENS 112	34
35	RCPT. - SIGN OFFICE 101	20	1						360	0		1	20	SPARE	36
37	RCPT. - SIGN OFFICE 101	20	1		540	0						1	20	SPARE	38
39	RCPT. - WELLNESS ROOM 115	20	1				540	360				1	20	FACP	40
41	RCPT. - WELLNESS ROOM 115B	20	1						540	540		1	20	RCPT. - OFFICE MANAGER 103	42
43	RCPT. - HWY COMMISSIONER 104	20	1		540	540						1	20	RCPT. - PATROL SUPT. & OPS. MGR 106	44
45	RCPT. - HWY COMMISSIONER 104	20	1				540	540				1	20	RCPT. - FOREMAN OFFICE 105	46
47	RCPT. - OFFICE MANAGER 103	20	1						540	540		1	20	RCPT. - RECORD & ARCHIVE 110	48
49	RCPT. - SAWS & SMALL TOOLS 118	20	1		540	540						1	20	RCPT. - FOREMAN OFFICE 105	50
51	RCPT. - CONFERENCE 102	20	1				540	540				1	20	RCPT. - FOREMAN OFFICE 105	52
53	RCPT. - FLUIDS & SPRAYS 119	20	1						540	540		1	20	RCPT. - WELLNESS ROOM 115B	54
55	RCPT. - MICROWAVE	20	1		1600	540						1	20	RCPT. - ADMIN ASSISTANT 100	56
57	RCPT. - MICROWAVE	20	1				1600	0				1	20	SPARE	58
59	RCPT. - MICROWAVE	20	1						1600	0		1	20	SPARE	60
				Connected Load:	34 kVA		30 kVA		35 kVA						
				Connected Current:	292 A		253 A		293 A						

(Includes load connected via feed-thru lugs.)

Load Classification	Connected		Demand
Motor	1144 VA		1269 VA
Lighting	149 VA		187 VA
Receptacle - General	38500 VA		24250 VA
Receptacle - Dedicated	59516 VA		59516 VA

Panel Totals	
Connected Load:	99 kVA
Connected Current:	276 A
Demand Load:	85 kVA
Demand Current:	237 A

Notes:

Panelboard: LR4B

LOCATION: MECHANICAL 114
SUPPLY: LR4A
MOUNTING: Surface
ENCLOSURE: NEMA 1

VOLTAGE: 208 V, 3Ø, 4W
BUS RATING: 225 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: -

MAINS TYPE: MLO
MAINS RATING: 225 A
MAINS FN/NOTE: -
SCCR: 10 kA

FED THRU LUGS

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	KH-1	20	1		144	180						1	20	SPARE	2
3	REX POWER SUPPLY - SOUTH DOOR	20	1				360	360				1	20	REX POWER SUPPLY - WEST DOOR	4
5	FRIDGE - HUDDLE	20	1	GFCI					700	900		1	20	RCPT. - ASSEMBLY, CORR.	6
7	RCPT. - COUNTER - HUDDLE	20	1		180	540						1	20	RCPT. - POWERED TOOLS 120	8
9	EXTERIOR RCPT. - EAST	20	1				540	720				1	20	FLOOR BOXES - ASSEMBLY	10
11	FLOOR BOXES - ASSEMBLY	20	1						1080	1600		1	20	RCPT. - MICROWAVE	12
13	RCPT. - POWERED TOOLS 120	20	1		540	900						1	20	RCPT. - ASSMEBLY WORKSTATION	14
15	RCPT. - IT/DATA 109	20	1				720	900				1	20	RCPT. - ASSEMBLY WORKSTATION	16
17	RCPT. - WOMENS 112	20	1						180	4250					18
19	EV CHARGING RECPT. 1	60	2		4250	4250						2	60	EV CHARGING RECPT. 2	20
21							4250	360				1	20	RCPT. - MECHANICAL	22
23	RCPT. - IT RACK	20	1						180	540		1	20	RCPT. - HUDDLE	24
25	RCPT. - PARTS STORAGE 117	20	1		1440	0						1	20	SPARE	26
27	RCPT. - EXTERIOR - SOUTH	20	1				180	540				1	20	RCPT. TVS - ASSEMBLY	28
29	RCPT. - POWERED TOOLS 120	20	1						540	1080		1	20	RCPT. - PARTS STORAGE 117	30
31	DRYER - LAUNDRY	20	1		1800	720						1	20	DOOR ACCESS - ENTRY, CORR	32
33	RCPT. - POWERED TOOLS 120	20	1				540	900				1	20	RCPT. - CORRIDOR, ENTRY	34
35	RCPT. - OFFICE CORR.	20	1						1080	85		1	20	LIGHTING - VESTIBULE	36
37	WASHER - LAUNDRY	20	1		1800	64						1	20	LIGHTING - CONFERENCE 102	38
39	RCPT. - ASSEMBLY, VEST.	20	1				900	360				1	20	SECURITY ACCESS CTRL PNL	40
41	DRYER - LAUNDRY	60	2						4250	360		1	20	DED RCPT. - IT/DATA 109	42
43					4250	360						1	20	DED RCPT. - IT/DATA 109	44
45	WASHER - LAUNDRY	20	2				4250	360				1	20	DED RCPT. - IT/DATA 109	46
47									4250	360		1	20	DED RCPT. - IT/DATA 109	48
49	SPARE	20	1		0	0						1	20	SPARE	50
51	SPARE	20	1				0	0				1	20	SPARE	52
53	SPARE	20	1						0	0		1	20	SPARE	54
55	SPARE	20	1		0	0						1	20	SPARE	56
57	SPARE	20	1				0	0				1	20	SPARE	58
59	SPARE	20	1						0	0		1	20	SPARE	60
				Connected Load:	21 kVA		16 kVA		21 kVA						
				Connected Current:	185 A		135 A		185 A						

Load Classification	Connected		Demand
Motor	144 VA		180 VA
Lighting	149 VA		187 VA
Receptacle - General	18340 VA		14170 VA
Receptacle - Dedicated	40460 VA		40460 VA

Panel Totals	
Connected Load:	59 kVA
Connected Current:	164 A
Demand Load:	55 kVA
Demand Current:	153 A

Notes:

Panelboard: LR5

LOCATION: HEATED PARKING GARAGE 130
SUPPLY: TR5
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 208 V, 3Ø, 4W
BUS RATING: 225 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: -

MAINS TYPE: MCB
MAINS RATING: 225 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	DOOR OPENER NW - GARAGE 130	20	1		1920	0						1	20	SPARE	2
3	DOOR OPENER NE - GARAGE 130	20	1				1920	0				1	20	SPARE	4
5	SPARE	20	1						0	0		1	20	SPARE	6
7	SPARE	20	1		0	0						1	20	SPARE	8
9	SPARE	20	1				0	0				1	20	SPARE	10
11	SPARE	20	1						0	0		1	20	SPARE	12
13	SPARE	20	1		0	0						1	20	SPARE	14
15	SPARE	20	1				0	0				1	20	SPARE	16
17	SPARE	20	1						0	0		1	20	SPARE	18
19	SPARE	20	1		0	0						1	20	SPARE	20
21	SPARE	20	1				0	0				1	20	SPARE	22
23	SPARE	20	1						0	0		1	20	SPARE	24
25	SPARE	20	1		0	0						1	20	SPARE	26
27	SPARE	20	1				0	0				1	20	SPARE	28
29	SPARE	20	1						0	0		1	20	SPARE	30
				Connected Load:	2 kVA		2 kVA		0 kVA						
				Connected Current:	18 A		18 A		0 A						

Load Classification	Connected		Demand
Motor	3840 VA		4320 VA

Panel Totals	
Connected Load:	4 kVA
Connected Current:	11 A
Demand Load:	4 kVA
Demand Current:	12 A

Notes:

Panelboard: LR6

LOCATION: HEATED PARKING GARAGE 130
SUPPLY: TR6
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 208 V, 3Ø, 4W
BUS RATING: 225 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: -

MAINS TYPE: MCB
MAINS RATING: 225 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	WH-2	20	1		600	540					GFCI	1	20	DED PPE VENDING	2
3	DED RCPT - HEATED GARAGE	20	1				320	1080				1	20	RCPT - HEATED GARAGE 130	4
5	EXT RCPT - GARAGE 130	20	1						360	1260		1	20	RCPT - HEATED PARKING	6
7	RCPT - HEATED GARAGE 130	20	1		720	4250						2	60	WALL DED RCPT -HEATED PARKING GARAGE 130	8
9	RCPT - HEATED GARAGE 130	20	1				1080	4250							10
11	DOOR OPENER - GARAGE 130	20	1						1920	1920		1	20	DOOR OPENER - GARAGE 130	12
13	RCPT - HEATED GARAGE 130	20	1		1080	1080						1	20	RCPT - HEATED GARAGE 130	14
15	RCPT - HEATED GARAGE 130	20	1				1080	720			GFCI	1	20	RCPT - CHARGING STATIONS	16
17	RCPT. - ROOF	20	1						540	720		1	20	RCPT - HEATED GARAGE 130	18
19	RCPT. - CHARGING STATIONS	20	1	GFCI	720	1080						1	20	RCPT - HEATED GARAGE 130	20
21	RCPT. - CHARGING STATIONS	20	1	GFCI			720	360				1	20	MUA-2 SMOKE ISOLATION DAMPER	22
23	RCPT. - ROOF	20	1						720	720	GFCI	1	20	RCPT. - CHARGING STATIONS	24
25	DED RCPT -HEATED PARKING GARAGE 130	20	2		90	0						1	20	SPARE	26
27							90	90				2	20	DED RCPT -HEATED PARKING GARAGE 130	28
29	DED RCPT -HEATED PARKING GARAGE 130	20	2						90	90					30
31					90	90						2	20	DED RCPT -HEATED PARKING GARAGE 130	32
33	DED RCPT -HEATED PARKING GARAGE 130	20	2				90	90							34
35									90	90		2	20	DED RCPT -HEATED PARKING GARAGE 130	36
37	DED RCPT -HEATED PARKING GARAGE 130	20	2		90	90									38
39							90	90				2	20	DED RCPT -HEATED PARKING GARAGE 130	40
41	DED RCPT -HEATED PARKING GARAGE 130	20	2						90	90					42
43					90	4250						2	60	WALL DED RCPT -HEATED PARKING GARAGE 130	44
45	WALL DED RCPT -HEATED PARKING GARAGE 130	60	2				4250	4250							46
47									4250	4250		2	60	WALL DED RCPT -HEATED PARKING GARAGE 130	48
49	SPARE	20	1		0	4250									50
51	SPARE	20	1				0	0				1	20	SPARE	52
53	SPARE	20	1						0	0		1	20	SPARE	54
55	SPARE	20	1		0	0						1	20	SPARE	56
57	SPARE	20	1				0	0				1	20	SPARE	58
59	SPARE	20	1						0	0		1	20	SPARE	60
				Connected Load:	19 kVA		19 kVA		17 kVA						
				Connected Current:	161 A		157 A		143 A						

Load Classification	Connected		Demand
Motor	4440 VA		4920 VA
Receptacle - General	14040 VA		12020 VA
Receptacle - Dedicated	36480 VA		36480 VA

Panel Totals	
Connected Load:	55 kVA
Connected Current:	153 A
Demand Load:	53 kVA
Demand Current:	148 A

Notes:

Panelboard: LR7

LOCATION: HEATED PARKING GARAGE 130
SUPPLY: TR7
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTAGE: 208 V, 3Ø, 4W
BUS RATING: 150 A
NEUTRAL: 100%
FEED-THRU LUGS: No
FEATURES & MODIFICATIONS: -

MAINS TYPE: MCB
MAINS RATING: 400 A
MAINS FN/NOTE: -
SCCR: 10 kA

CKT	DESCRIPTION	TRIP (A)	POLES	FN/NOTE	PHASE A LOAD (VA)		PHASE B LOAD (VA)		PHASE C LOAD (VA)		FN/NOTE	POLES	TRIP (A)	DESCRIPTION	CKT
1	RCPT. - VEHICLE WASH 133	20	1		180	180						1	20	RCPT. - VEHICLE WASH 133	2
3	EXTERIOR RCPT. - WEST	20	1				360	1920				1	20	S. DOOR OPENER - VEHICLE WASH 133	4
5	RCPT. - GARAGE 130	20	1						2160	2160		1	20	RCPT. - HEATED PARKING GARAGE 130	6
7	N. DOOR OPENER - VEH WASH 133	20	1		1920	360						1	20	RCPT. - VEHICLE WASH CLOSET 134	8
9	RCPT. - VEHICLE WASH MEZZANINE	20	1				360	0				1	20	SPARE	10
11	RCPT. - ROOF	20	1						360	0		1	20	SPARE	12
13	SPARE	20	1		0	0						1	20	SPARE	14
15	SPARE	20	1				0	0				1	20	SPARE	16
17	SPARE	20	1						0	0		1	20	SPARE	18
19	SPARE	20	1		0	0						1	20	SPARE	20
21	SPARE	20	1				0	0				1	20	SPARE	22
23	SPARE	20	1						0	0		1	20	SPARE	24
25	SPARE	20	1		0	0						1	20	SPARE	26
27	SPARE	20	1				0	0				1	20	SPARE	28
29	SPARE	20	1						0	0		1	20	SPARE	30
				Connected Load:	3 kVA		3 kVA		5 kVA						
				Connected Current:	22 A		22 A		39 A						

Load Classification	Connected		Demand
Motor	3840 VA		4320 VA
Receptacle - General	6120 VA		6120 VA

Panel Totals	
Connected Load:	10 kVA
Connected Current:	28 A
Demand Load:	10 kVA
Demand Current:	29 A

Notes:

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CONSULTANT

AYRES

CONSTRUCTION MANAGER
Market & Johnson
Adding Value to Everything We Do

Jackson County Highway Facility
N5579 STATE HWY 54, Black River Falls, WI 54615

REVISIONS

DATE	DESCRIPTION

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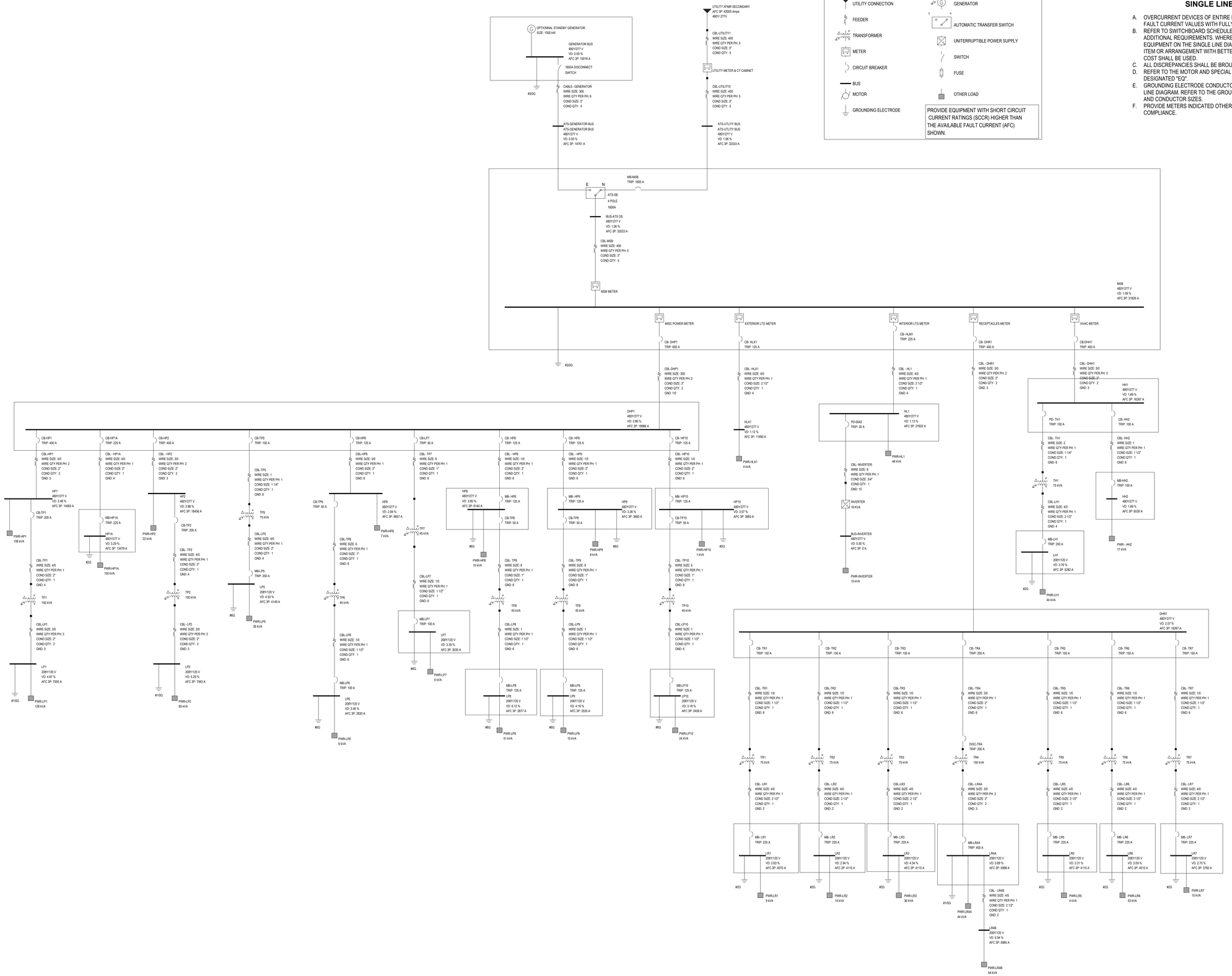
SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
PANEL SCHEDULES

SHEET
E809



1 SINGLE LINE DIAGRAM

NOT TO SCALE

SINGLE LINE SHEET NOTES

A. OVERCURRENT DEVICES OF ENTIRE DISTRIBUTION SYSTEM SHALL MEET STATED FAULT CURRENT VALUES WITH FULLY RATED EQUIPMENT.
B. REFER TO SWITCHBOARD SCHEDULES AND DISTRIBUTION PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS. WHERE A DISCREPANCY EXISTS BETWEEN EQUIPMENT ON THE SINGLE LINE DIAGRAM AND THE DETAILED SCHEDULES, THE ITEM OR ARRANGEMENT WITH BETTER QUALITY, GREATER QUANTITY, OR HIGHER COST SHALL BE USED.
C. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
D. REFER TO THE MOTOR AND SPECIAL CONNECTION SCHEDULE FOR ALL FEEDERS DESIGNATED "EQ".
E. GROUNDING ELECTRODE CONDUCTOR SIZES ARE NOT INDICATED ON THE SINGLE LINE DIAGRAM. REFER TO THE GROUNDING RISER DIAGRAM FOR CONNECTIONS AND CONDUCTOR SIZES.
F. PROVIDE METERS INDICATED OTHER THAN UTILITY FOR ENERGY CODE COMPLIANCE.

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CONSULTANT

AYRES

CONSTRUCTION MANAGER

Market & Johnson
Adding Value to Everything We Do

Jackson County Highway Facility

N5579 STATE HWY 54, Black River Falls, WI 54615

REVISIONS

	DATE	DESCRIPTION
1		

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SET TYPE
BID PACKAGE #2

BARRIENTOS DESIGN PROJECT NUMBER
50923

DATE
06.22.2026

SHEET TITLE
ELECTRICAL DIAGRAMS

SHEET
E901