

# CUMBERLAND COUNTY CIVIC CENTER RENOVATION

PORTLAND, MAINE



**VOLUME 1:**

CIVIL DRAWINGS  
STRUCTURAL DRAWINGS  
ARCHITECTURAL DRAWINGS  
FOOD SERVICE

**VOLUME 2:**

FIRE PROTECTION  
PLUMBING DRAWINGS  
MECHANICAL DRAWINGS  
ELECTRICAL DRAWINGS

**PROJECT ADDRESS:**

ONE CIVIC CENTER SQUARE  
PORTLAND, ME 04101

NW ENTRY CONSTRUCTION DOCUMENTS

10-31-2012

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Owner: _____	_____			
Architect: _____	_____			
Contractor: _____	_____			



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SHEET No.  
**G0.04**

COMM No.  
**3757.00**

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# VOLUME 1

**GENERAL DRAWINGS**

G0.01 COVER SHEET VOLUME 1  
 G0.02 DRAWING LIST VOLUME 1  
 G0.03 SYMBOLS AND ABBREVIATIONS  
 LSA.00 MECHANICAL LEVEL - LIFE SAFETY PLAN  
 LSA.10 EVENT LEVEL - LIFE SAFETY PLAN  
 LSA.20 CONCOURSE LEVEL - LIFE SAFETY PLAN  
 LSA.30 MID SUITES LEVEL - LIFE SAFETY PLAN  
 LSA.40 UPPER SUITE LEVEL - LIFE SAFETY PLAN

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G1006 SITE GENERAL NOTES & ABBREVIATIONS  
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 GR902 FREE STREET SITE PHOTOS  
 GR903 SPRING STREET SITE PHOTOS  
 GR904 ELEVATED SITE PHOTOS  
 PH100 SITE PHASING PLAN - PHASE I  
 PH101 SITE PHASING PLAN - PHASE II  
 CD101 SITE REMOVALS PLAN  
 CD102 SITE LEDGE REMOVALS PLAN  
 CP101 SITE LAYOUT AND MATERIALS PLAN  
 CS101 SITE GRADING AND EROSION CONTROL PLAN  
 CU101 SITE UTILITY PLAN  
 CU301 SITE LARGE SCALE UTILITY PLAN  
 CU302 SITE UTILITY PLAN & PROFILE  
 CU303 SITE UTILITY PLAN & PROFILE  
 LP101 SITE PLANTING PLAN  
 CS01 SITE DETAILS  
 CS02 SITE DETAILS  
 CS03 SITE DETAILS  
 CS04 SITE DETAILS  
 CS05 SITE DETAILS  
 CS06 SITE DETAILS  
 C601 SITE BORING LOGS  
 C602 SITE BORING LOGS

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 S0.02 STRUCTURAL TESTS AND SPECIAL INSPECTIONS  
 S2.1A MAIN CONCOURSE LEVEL FOUNDATION PLAN - QUAD A  
 S2.31A MID SUITE LEVEL FLOOR FRAMING PLAN - QUAD A  
 S2.41A UPPER SUITE LEVEL FLOOR FRAMING PLAN - QUAD A  
 S2.61A ROOF FRAMING PLAN  
 S2.71A ENLARGED FRAMING PLANS  
 S3.00 TYPICAL CONCRETE FOUNDATION SECTIONS AND DETAILS  
 S3.01 TYPICAL CONCRETE FOUNDATION SECTIONS AND DETAILS  
 S3.02 CONCRETE FOUNDATION SECTIONS AND DETAILS  
 S3.03 CONCRETE FOUNDATION SECTIONS AND DETAILS  
 S3.00 TYPICAL STEEL FRAMING SECTIONS AND DETAILS  
 S5.01 STEEL FLOOR FRAMING SECTIONS AND DETAILS  
 S5.02 STEEL FLOOR FRAMING SECTIONS AND DETAILS  
 S5.05 STEEL ROOF FRAMING SECTIONS AND DETAILS

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 A2.31A MID SUITES LEVEL REMOVALS PLAN QUAD A  
 A2.41A UPPER SUITES LEVEL REMOVALS PLAN QUAD A  
 A2.01 EXTERIOR REMOVAL ELEVATIONS AND DETAILS  
 A2.21A CONCOURSE LEVEL FLOOR PLAN - PHASE 1  
 A2.31A MID SUITES LEVEL FLOOR PLAN - PHASE 1  
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 A2.61A ROOF LEVEL PHASE 1  
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 A3.21 BUILDING SECTIONS  
 A3.22 BUILDING SECTIONS  
 A3.23 BUILDING SECTIONS  
 A3.24 BUILDING SECTIONS  
 A3.40 WALL SECTIONS  
 A3.41 WALL SECTIONS  
 A3.42 WALL SECTIONS  
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 A4.41 ENLARGED PLANS  
 A5.00 TOILET DETAILS AND ACCESSORIES  
 A5.21 INTERIOR ELEVATIONS  
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 A9.85 DOOR DETAILS  
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 G0.05 DRAWING LIST VOLUME 2

**FIRE PROTECTION**

FD2.20A MAIN CONCOURSE FIRE PROTECTION REMOVALS PLAN - PHASE 1  
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 FP2.30A MID SUITES FIRE PROTECTION PLAN - PHASE 1  
 FP2.40A UPPER SUITES FIRE PROTECTION PLAN - PHASE 1

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 P2.11A EVENT LEVEL PLUMBING PLAN - QUAD A - PHASE 1  
 P2.21A CONCOURSE LEVEL PLUMBING PLAN - QUAD A - PHASE 1  
 P2.31A MID SUITES LEVEL PLUMBING PLAN - QUAD A - PHASE 1  
 P2.41A UPPER SUITES LEVEL PLUMBING PLAN - QUAD A - PHASE 1  
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 PFS1.0 ENLARGED CONCESSIONS PLUMBING PLANS

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 MD2.03A MECHANICAL LEVEL MECHANICAL REMOVALS PLAN  
 M2.21A CONCOURSE LEVEL MECHANICAL PLAN - QUAD A PHASE 1  
 M2.31A MID SUITES LEVEL MECHANICAL PLAN - QUAD A PHASE 1  
 M2.41A UPPER SUITES LEVEL MECHANICAL PLAN - QUAD A PHASE 1  
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**ELECTRICAL DRAWINGS**

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 E1.21A CONCOURSE LEVEL LIGHTING PLAN - QUAD A  
 E1.31A MID SUITES LEVEL LIGHTING PLAN - QUAD A  
 E1.41A UPPER SUITES LEVEL LIGHTING PLAN - QUAD A  
 E2.21A CONCOURSE LEVEL POWER PLAN - QUAD A  
 E2.31A MID SUITES LEVEL POWER PLAN - QUAD A  
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 E4.01A ENLARGED ELECTRICAL PLANS  
 E5.01 ELECTRICAL DETAILS  
 E5.02 ELECTRICAL DETAILS  
 E5.03 ELECTRICAL DETAILS  
 E6.01A PANELBOARD SCHEDULES

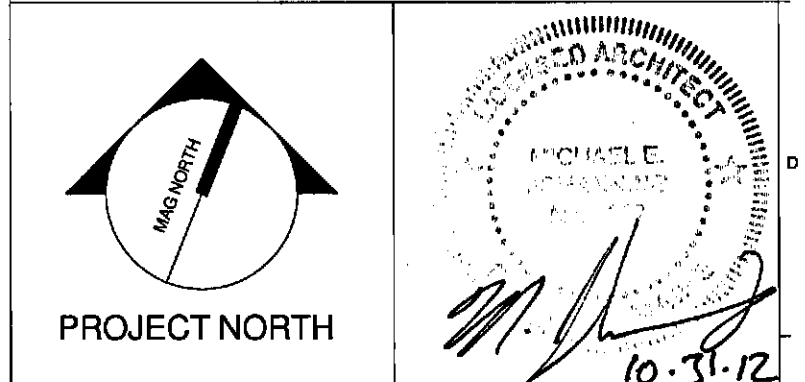
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CUMBERLAND COUNTY CIVIC CENTER RENOVATION

PROJECT: PORTLAND, MAINE

DRAWING LIST VOLUME 2

SHEET TITLE

WBRC DAD FILE: C:\Revit Local\97700 - CCCC Architecture Job\alubs.rvt

PROJECT No.	3757.00	GRAPHIC SCALE	1" = 1'
SCALE:			
PROJECT MANAGER:	JRB	SHEET No.	G0.05
DRAWN BY:	Author		
CHECKED BY:	MEJ		

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- REFER TO DIVISION 21 SPECIFICATIONS.
- RENOVATED AREAS OF FACILITY AND NEW AREAS OF WORK SHALL BE PROVIDED W/ A FIRE SPRINKLER SYSTEM, IN ACCORDANCE W/ THE NFPA 13 & THE STATE OF MAINE FIRE MARSHAL'S OFFICE. A WET SYSTEM SHALL BE PROVIDED FOR PROTECTION OF ALL HEATED AREAS & SPACES. A GLYCOL SYSTEM SHALL BE PROVIDED FOR PROTECTION OF ALL NON-HEATED AREAS & SPACES, SUSCEPTIBLE TO FREEZING (EXTERIOR CANOPIES, ETC.).
- COORDINATE SPRINKLER PIPING LOCATIONS W/ ALL TRADES.
- DO NOT INSTALL SPRINKLER PIPING OVER ELECTRICAL SWITCH GEAR. COORDINATE REQUIRED CLEARANCES FOR ACCESS & SERVICE OF ELECTRICAL SWITCH GEAR, W/ ELECTRICAL CONTRACTOR.
- PROVIDE SPRINKLER COVERAGE OVER ALL CABLE TRAYS. COORDINATE WITH ELECTRICAL ALL CABLE TRAY LOCATIONS.
- FACILITY IS PROVIDED WITH A STANDPIPE SYSTEM. EXTEND AND MAINTAIN IN ACCORDANCE WITH NFPA 14 AND THE CITY OF PORTLAND FIRE DEPT.

**FIRE SUPPRESSION SYSTEM LEGEND**

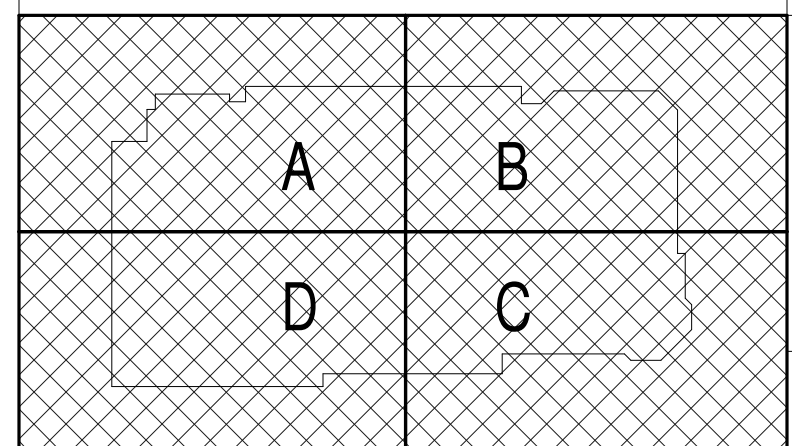
- FIRE DEPT. CONNECTION (STORZ)
- SPRINKLER SYSTEM WET RISER
- EXISTING FIRE SPRINKLER PIPING
- NEW FIRE SPRINKLER PIPING
- EXISTING STAND PIPE PIPING
- NEW STAND PIPE PIPING

**REFERENCE:**

EASTERN FIRE PROTECTION SHOP DRAWINGS  
 DATED: 06-29-2015  
 SPRINKLER SYSTEMS INC. SHOP DRAWINGS  
 DATED: 6-17-1994

**TECHNICAL NOTES:**

- FOOD SERVICE AREA COMMERCIAL KITCHEN HOODS SERVED BY DEDICATED FIRE PROTECTION SYSTEM. REFER TO FOOD SERVICE DRAWINGS AND MECHANICAL DRAWINGS.
- PROVIDE WET SPRINKLER SYSTEM IN IT & ELECTRICAL ROOMS. COORDINATE WITH EQUIPMENT LAYOUT, COORDINATE WITH ELECTRICAL CONTRACTOR.
- PROVIDE SPRINKLER WATER SUPPLY TO EACH COMMERCIAL GAS CLOTHES DRYER. COORDINATE WITH GAS DRYER SUBMITTALS & SHOP DRAWINGS.

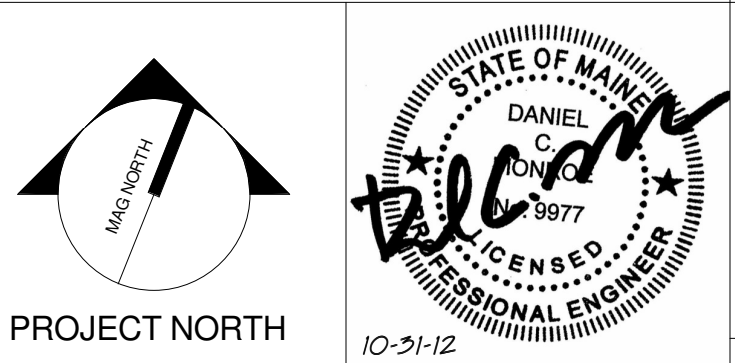


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REV.	DESCRIPTION	DATE

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10-31-2012

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10-31-12



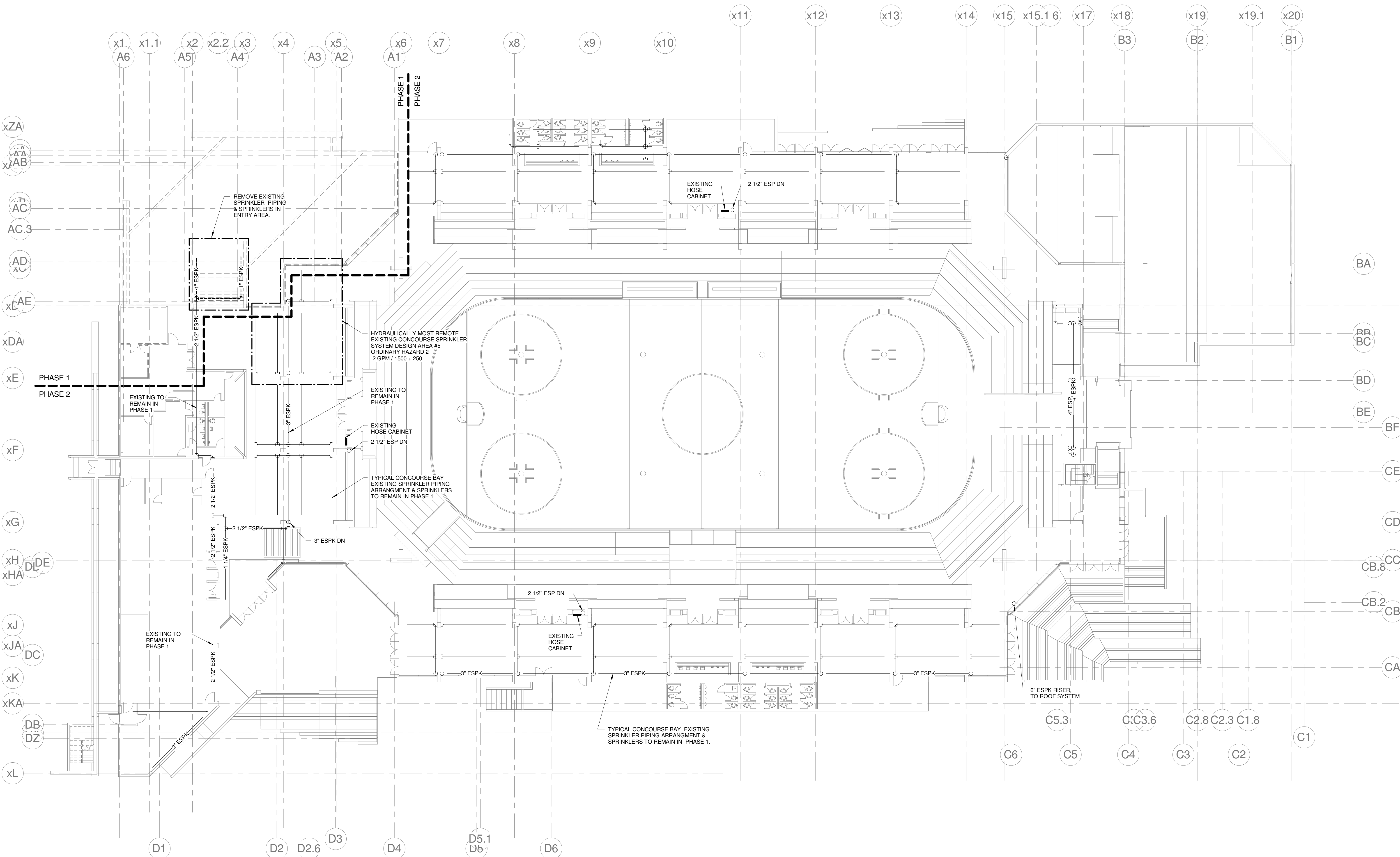
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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**

PROJECT: PORTLAND, ME

**MAIN CONCOURSE FIRE PROTECTION REMOVALS PLAN - PHASE 1**

SHEET TITLE:	FD2.20A
WBRC CAD FILE:	375700 - 0000 Plumbing_Like.dwg
PROJECT No.:	3757.00
SCALE:	As indicated
PROJECT MANAGER:	JRB
DRAWN BY:	LAC
CHECKED BY:	DMON



1 MAIN CONCOURSE FIRE PROTECTION REMOVALS PLAN - PHASE 1  
 1/16" = 1'-0"

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**FIRE PROTECTION NOTES:**

- REFER TO DIVISION 21 SPECIFICATIONS.
- RENOVATED AREAS OF FACILITY AND NEW AREAS OF WORK SHALL BE PROVIDED WITH A FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH THE NFPA 13 & THE STATE OF MAINE FIRE MARSHAL'S OFFICE. A WET SYSTEM SHALL BE PROVIDED FOR PROTECTION OF ALL HEATED AREAS & SPACES. A GLYCOL SYSTEM SHALL BE PROVIDED FOR PROTECTION OF ALL NON-HEATED AREAS & SPACES, SUSCEPTIBLE TO FREEZING (EXTERIOR CANOPIES, ETC.)
- COORDINATE SPRINKLER PIPING LOCATIONS WITH ALL TRADES.
- DO NOT INSTALL SPRINKLER PIPING OVER ELECTRICAL SWITCH GEAR. COORDINATE REQUIRED CLEARANCES FOR ACCESS & SERVICE OF ELECTRICAL SWITCH GEAR, WITH ELECTRICAL CONTRACTOR.
- PROVIDE SPRINKLER COVERAGE OVER ALL CABLE TRAYS. COORDINATE WITH ELECTRICAL ALL CABLE TRAY LOCATIONS.
- FACILITY IS PROVIDED WITH A STANDPIPE SYSTEM. EXTEND AND MAINTAIN IN ACCORDANCE WITH NFPA 14 AND THE CITY OF PORTLAND FIRE DEPT.

**FIRE SUPPRESSION SYSTEM LEGEND**

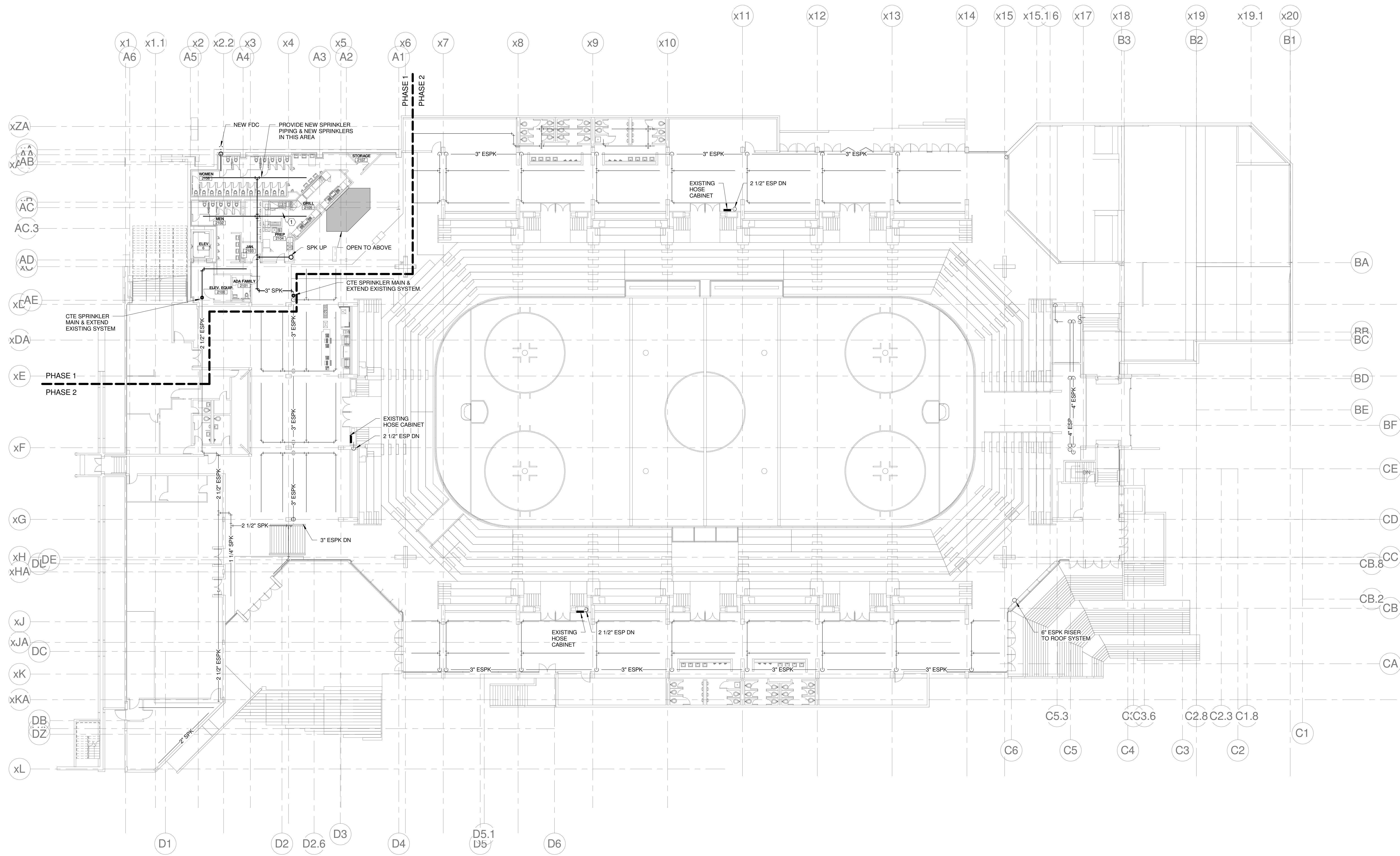
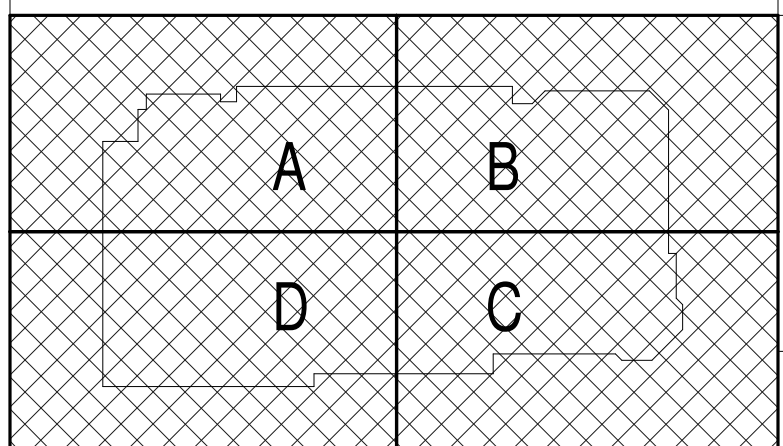
- FIRE DEPT. CONNECTION (STORZ)
- SPRINKLER SYSTEM WET RISER
- EXISTING FIRE SPRINKLER PIPING
- NEW FIRE SPRINKLER PIPING
- EXISTING STAND PIPE PIPING
- NEW STAND PIPE PIPING

**REFERENCE:**

EASTERN FIRE PROTECTION SHOP DRAWINGS DATED: 06-29-2015  
 SPRINKLER SYSTEMS INC. SHOP DRAWINGS DATED: 6-17-1994

**TECHNICAL NOTES:**

- FOOD SERVICE AREA COMMERCIAL KITCHEN HOODS SERVED BY DEDICATED FIRE PROTECTION SYSTEM. REFER TO FOOD SERVICE DRAWINGS AND MECHANICAL DRAWINGS.
- PROVIDE WET SPRINKLER SYSTEM IN IT & ELECTRICAL ROOMS. COORDINATE WITH EQUIPMENT LAYOUT.
- PROVIDE SPRINKLER WATER SUPPLY TO EACH COMMERCIAL GAS CLOTHES DRYER. COORDINATE WITH GAS DRYER SUBMITTALS & SHOP DRAWINGS.



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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**

**PROJECT PORTLAND, ME  
 MAIN CONCOURSE FIRE PROTECTION PLAN - PHASE 1**

SHEET TITLE:	WBRC CAD FILE: 375700 - CCCC Plumbing_Like.dwg
PROJECT No.:	3757.00 GRAPHIC SCALE: 1" = 1'
SCALE:	As indicated
PROJECT MANAGER:	JRB
DRAWN BY:	LAC
CHECKED BY:	DMON
SHEET No. <b>FP2.20A</b>	

**1 MAIN CONCOURSE FIRE PROTECTION PLAN - PHASE 1  
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**FIRE PROTECTION NOTES:**

- REFER TO DIVISION 21 SPECIFICATIONS.
- RENOVATED AREAS OF FACILITY AND NEW AREAS OF WORK SHALL BE PROVIDED W/ A FIRE SPRINKLER SYSTEM, IN ACCORDANCE W/ THE NFPA 13 & THE STATE OF MAINE FIRE MARSHAL'S OFFICE. A WET SYSTEM SHALL BE PROVIDED FOR PROTECTION OF ALL HEATED AREAS & SPACES. A GLYCOL SYSTEM SHALL BE PROVIDED FOR PROTECTION OF ALL NON-HEATED AREAS & SPACES, SUSCEPTIBLE TO FREEZING (EXTERIOR CANOPIES, ETC.).
- COORDINATE SPRINKLER PIPING LOCATIONS W/ ALL TRADES.
- DO NOT INSTALL SPRINKLER PIPING OVER ELECTRICAL SWITCH GEAR. COORDINATE REQUIRED CLEARANCES FOR ACCESS & SERVICE OF ELECTRICAL SWITCH GEAR, W/ ELECTRICAL CONTRACTOR.
- PROVIDE SPRINKLER COVERAGE OVER ALL CABLE TRAYS. COORDINATE WITH ELECTRICAL ALL CABLE TRAY LOCATIONS.
- FACILITY IS PROVIDED WITH A STANDPIPE SYSTEM. EXTEND AND MAINTAIN IN ACCORDANCE WITH NFPA 14 AND THE CITY OF PORTLAND FIRE DEPT.

**FIRE SUPPRESSION SYSTEM LEGEND**

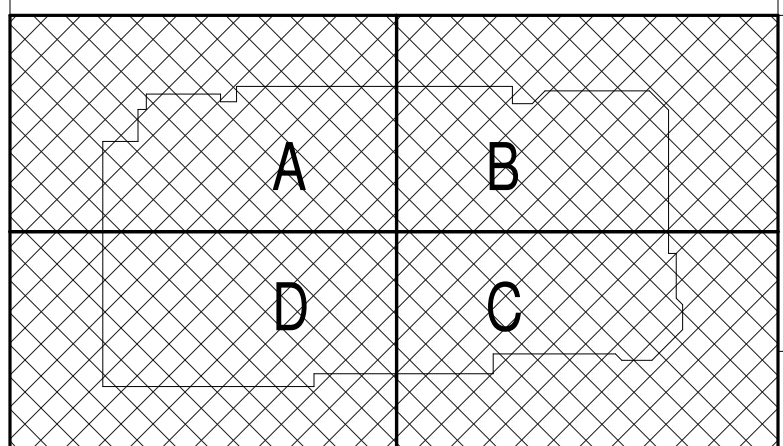
- FIRE DEPT. CONNECTION (STORZ)
- SPRINKLER SYSTEM WET RISER
- ESPK - EXISTING FIRE SPRINKLER PIPING
- SPK - NEW FIRE SPRINKLER PIPING
- ESP - EXISTING STAND PIPE PIPING
- SP - NEW STAND PIPE PIPING

**REFERENCE:**

EASTERN FIRE PROTECTION SHOP DRAWINGS  
DATED: 06-29-2015  
SPRINKLER SYSTEMS INC. SHOP DRAWINGS  
DATED: 6-17-1994

**TECHNICAL NOTES:**

- FOOD SERVICE AREA COMMERCIAL KITCHEN HOODS SERVED BY DEDICATED FIRE PROTECTION SYSTEM. REFER TO FOOD SERVICE DRAWINGS AND MECHANICAL DRAWINGS.
- PROVIDE WET SPRINKLER SYSTEM IN IT & ELECTRICAL ROOMS. COORDINATE WITH EQUIPMENT LAYOUT.
- PROVIDE SPRINKLER WATER SUPPLY TO EACH COMMERCIAL GAS CLOTHES DRYER. COORDINATE WITH GAS DRYER SUBMITTALS & SHOP DRAWINGS.



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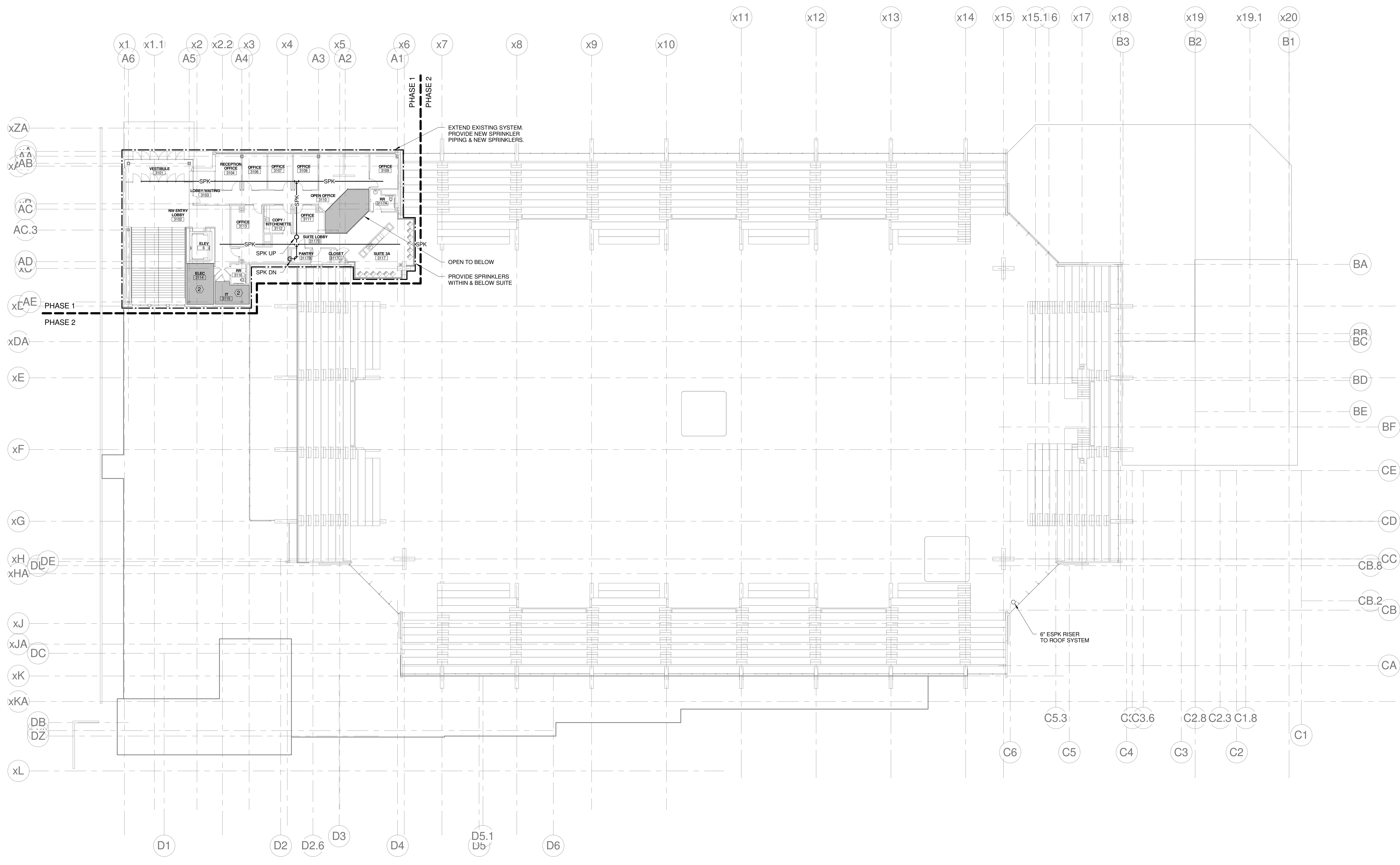


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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**

PROJECT: PORTLAND, ME  
**MID SUITES FIRE PROTECTION PLAN - PHASE 1**

SHEET TITLE:	FP2.30A
WBRC CAD FILE:	375700 - 02CC Plumbing.dwg
PROJECT No.:	3757.00
SCALE:	As indicated
PROJECT MANAGER:	JRB
DRAWN BY:	LAC
CHECKED BY:	DMON



**1 MIS SUITES LEVEL FIRE PROTECTION PLAN**  
1/16" = 1'-0"

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- REFER TO DIVISION 21 SPECIFICATIONS.
- RENOVATED AREAS OF FACILITY AND NEW AREAS OF WORK SHALL BE PROVIDED WITH A FIRE SPRINKLER SYSTEM, IN ACCORDANCE WITH THE NFPA 13 & THE STATE OF MAINE FIRE MARSHAL'S OFFICE. A WET SYSTEM SHALL BE PROVIDED FOR PROTECTION OF ALL HEATED AREAS & SPACES. A GLYCOL SYSTEM SHALL BE PROVIDED FOR PROTECTION OF ALL NON-HEATED AREAS & SPACES, SUSCEPTIBLE TO FREEZING (EXTERIOR CANOPIES, ETC.).
- COORDINATE SPRINKLER PIPING LOCATIONS WITH ALL TRADES.
- DO NOT INSTALL SPRINKLER PIPING OVER ELECTRICAL SWITCH GEAR. COORDINATE REQUIRED CLEARANCES FOR ACCESS & SERVICE OF ELECTRICAL SWITCH GEAR, WITH ELECTRICAL CONTRACTOR.
- PROVIDE SPRINKLER COVERAGE OVER ALL CABLE TRAYS. COORDINATE WITH ELECTRICAL ALL CABLE TRAY LOCATIONS.
- FACILITY IS PROVIDED WITH A STANDPIPE SYSTEM. EXTEND AND MAINTAIN IN ACCORDANCE WITH NFPA 14 AND THE CITY OF PORTLAND FIRE DEPT.

**FIRE SUPPRESSION SYSTEM LEGEND**

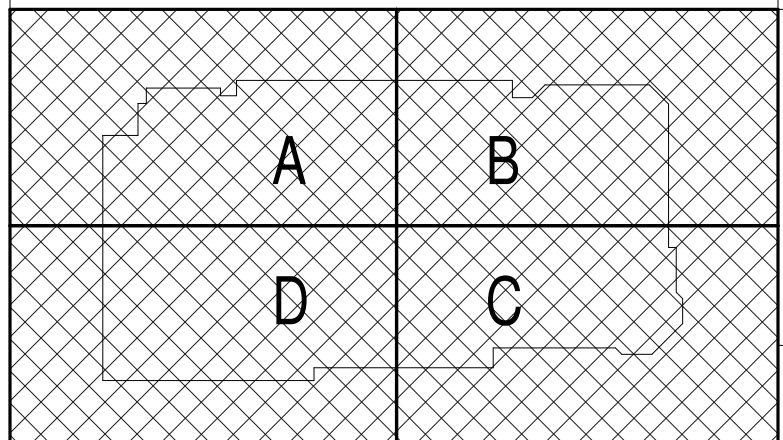
- FIRE DEPT. CONNECTION (STORZ)
- SPRINKLER SYSTEM WET RISER
- ESPK— EXISTING FIRE SPRINKLER PIPING
- SPK— NEW FIRE SPRINKLER PIPING
- ESP— EXISTING STAND PIPE PIPING
- SP— NEW STAND PIPE PIPING

**REFERENCE:**

EASTERN FIRE PROTECTION SHOP DRAWINGS  
 DATED: 06-29-2975  
 SPRINKLER SYSTEMS INC. SHOP DRAWINGS  
 DATED: 6-17-1994

**TECHNICAL NOTES:**

- FOOD SERVICE AREA COMMERCIAL KITCHEN HOODS SERVED BY DEDICATED FIRE PROTECTION SYSTEM. REFER TO FOOD SERVICE DRAWINGS AND MECHANICAL DRAWINGS.
- PROVIDE WET SPRINKLER SYSTEM IN IT & ELECTRICAL ROOMS. COORDINATE WITH EQUIPMENT LAYOUT.
- PROVIDE SPRINKLER WATER SUPPLY TO EACH COMMERCIAL GAS CLOTHES DRYER. COORDINATE WITH GAS DRYER SUBMITTALS & SHOP DRAWINGS.



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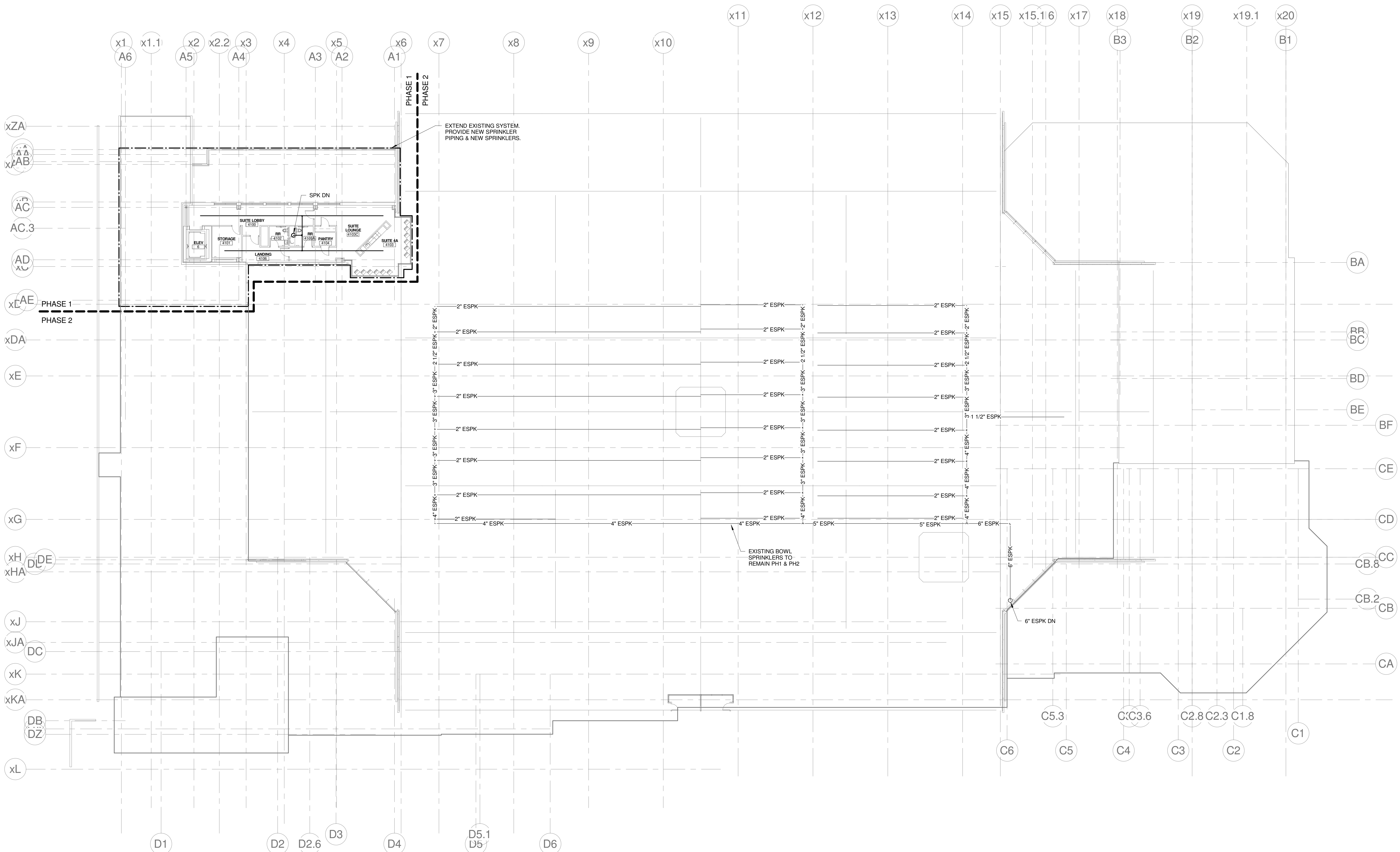
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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**  
 PROJECT: PORTLAND, ME  
**UPPER SUITES FIRE PROTECTION PLAN - PHASE 1**

SHEET TITLE:	UPPER SUITES FIRE PROTECTION PLAN - PHASE 1
WBRC CAD FILE:	375700 - 0000 Plumbing_Like.dwg
PROJECT No.:	3757.00
SCALE:	As indicated
PROJECT MANAGER:	JRB
DRAWN BY:	LAC
CHECKED BY:	DMON
SHEET No.:	FP2.40A



**1 UPPER SUITES FIRE PROTECTION PLAN - PHASE 1**  
 1/16" = 1'-0"

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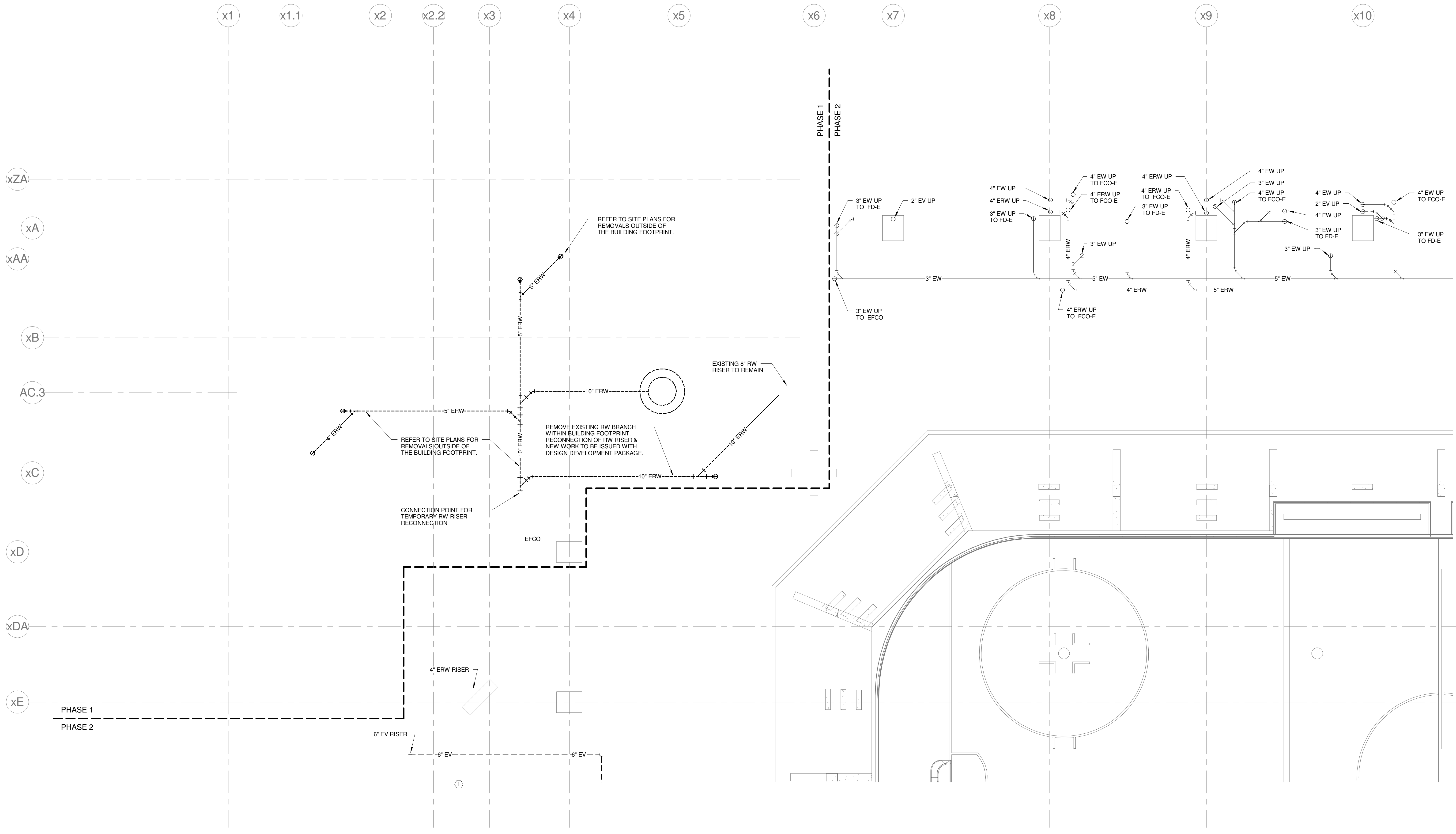
Copyright by  
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Dethlefs, P.C.  
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Suite 100  
Denver, Colorado 80202  
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**GENERAL NOTES:**

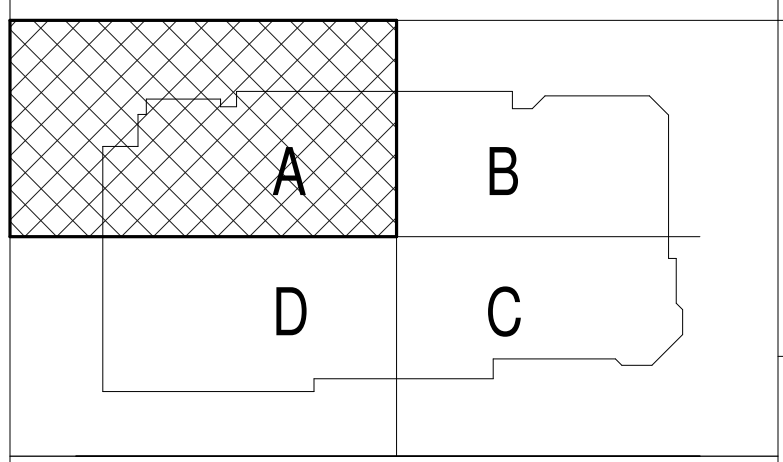
- REFER TO PLUMBING FIXTURE CONNECTION SCHEDULE FOR PIPING SIZES TO INDIVIDUAL FIXTURES.
- INTERIOR UNDERSLAB PLUMBING PIPING INVERTS INDICATED ARE FOR REFERENCE. CONTRACTOR SHALL FIELD VERIFY EXACT INVERTS, COORDINATE WALL PENETRATIONS, AND WITH STRUCTURAL FOOTINGS, AND ALL OTHER UNDERSLAB UTILITIES.
- BUILDING SANITARY SEWER SHALL BE RUN IN PRACTICAL ALIGNMENT AND AT UNIFORM SLOPE. BASIS OF DESIGN OF UNDERSLAB SANITARY SEWER PIPING IS 1/4" PER FOOT SLOPE.
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- REFER TO FOOD SERVICE ROUGH-IN PLAN FOR FIXTURE ROUGH-IN & CONNECTIONS. PLUMBING CONTRACTOR TO VERIFY & COORDINATE ALL SIZES & CONNECTIONS WITH FOOD SERVICE PLANS & APPROVED FOOD SERVICE EQUIPMENT SHOP DRAWINGS.

**TECHNICAL NOTES:**

- REMOVE EXISTING FLOOR DRAIN, REPLACE WITH NEW & CONNECT TO EXISTING PIPING.



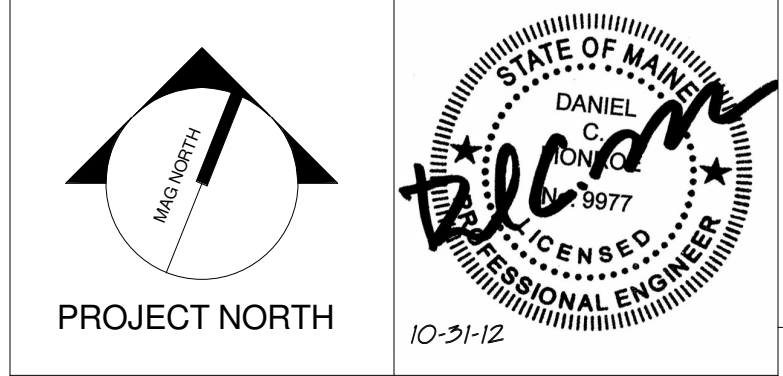
DRAWING ISSUED WITH NO CHANGES



2	NW ENTRY CONSTRUCTION DOCS	10-31-12
1	NW ENTRY DESIGN DEVELOPMENT	08-23-12
0	CONSTRUCTION DOCS	07-27-12
REV.	DESCRIPTION	DATE

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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**

PROJECT: PORTLAND, ME  
**EVENT LEVEL PLUMBING REMOVALS PLAN - QUAD A - PHASE 1**

SHEET TITLE:	WBRC CAD FILE: 375700 - 0000 Plumbing_Like.dwg
PROJECT No.:	3757.00
SCALE:	As indicated
PROJECT MANAGER:	JRB
DRAWN BY:	LAC
CHECKED BY:	DMON
SHEET No.:	<b>PD2.11A</b>

1 EVENT LEVEL PLUMBING REMOVALS PLAN - QUAD A - PHASE 1  
1/8" = 1'-0"

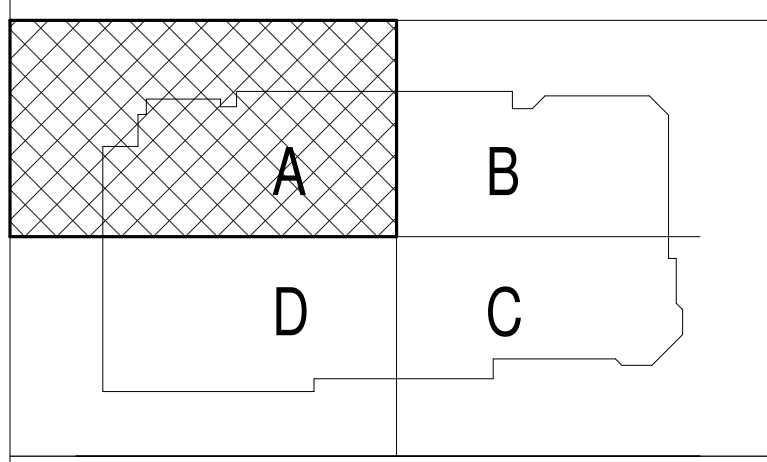
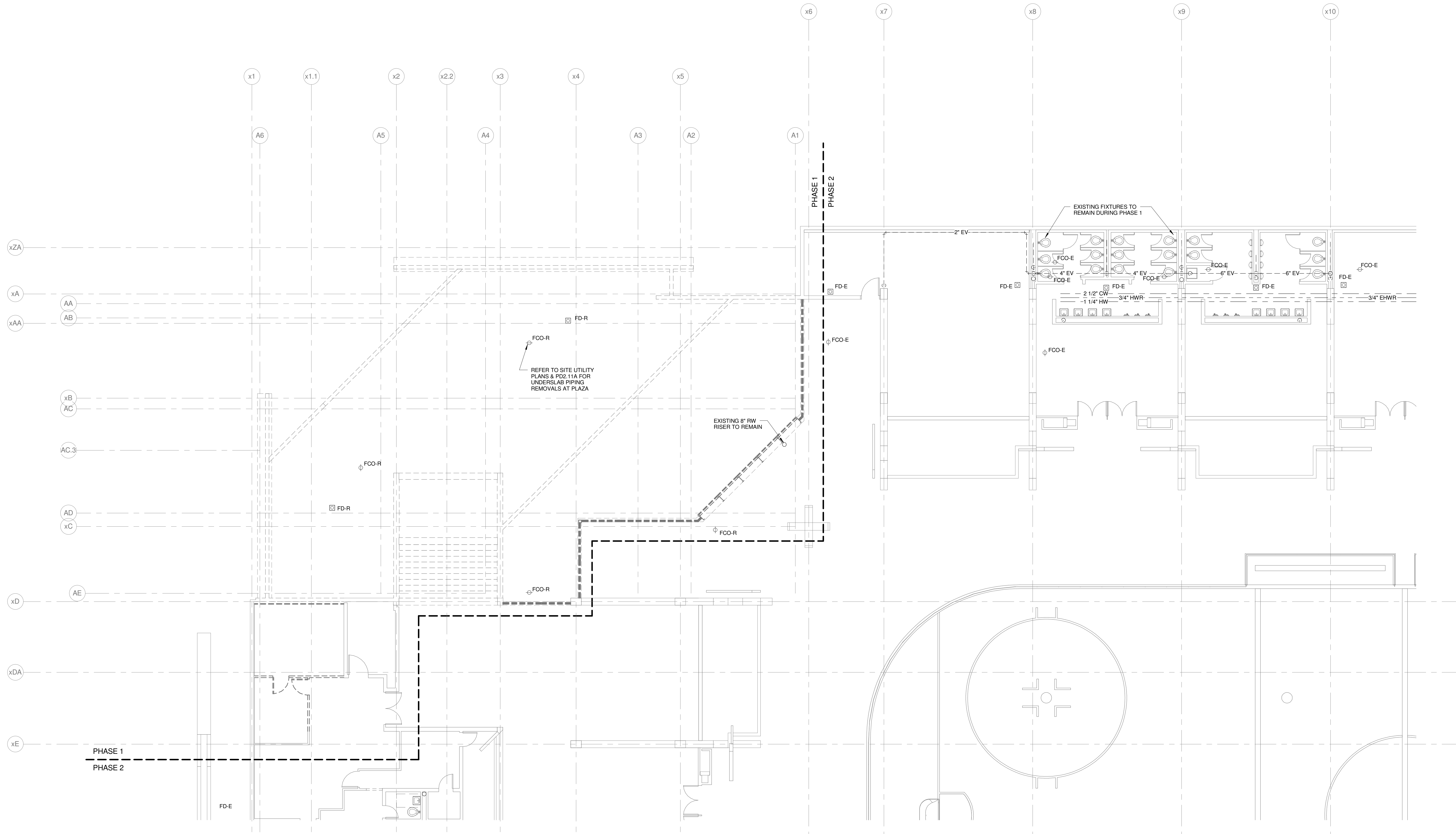
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C:\Users\lucachieve\Documents\375700 - 0000 Plumbing\_Like.dwg

**GENERAL NOTES:**

- REFER TO PLUMBING FIXTURE CONNECTION SCHEDULE FOR PIPING SIZES TO INDIVIDUAL FIXTURES.
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**TECHNICAL NOTES:**

- REMOVE EXISTING FLOOR DRAIN. REPLACE WITH NEW & CONNECT TO EXISTING PIPING.



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CUMBERLAND COUNTY CIVIC CENTER RENOVATION  
PROJECT: PORTLAND, ME  
CONCOURSE LEVEL PLUMBING REMOVALS PLAN - QUAD A - PHASE 1

WBRC CAD FILE: 375700 - 0202 Plumbing.rvt	GRAPHIC SCALE: 1" = 10'-0"
PROJECT No. 3757.00	SCALE: As indicated
PROJECT MANAGER: JRB	SHEET No. PD2.21A
DRAWN BY: LAC	CHECKED BY: DMON

1 CONCOURSE LEVEL PLUMBING REMOVALS PLAN - QUAD A - PHASE 1  
1/8" = 1'-0"

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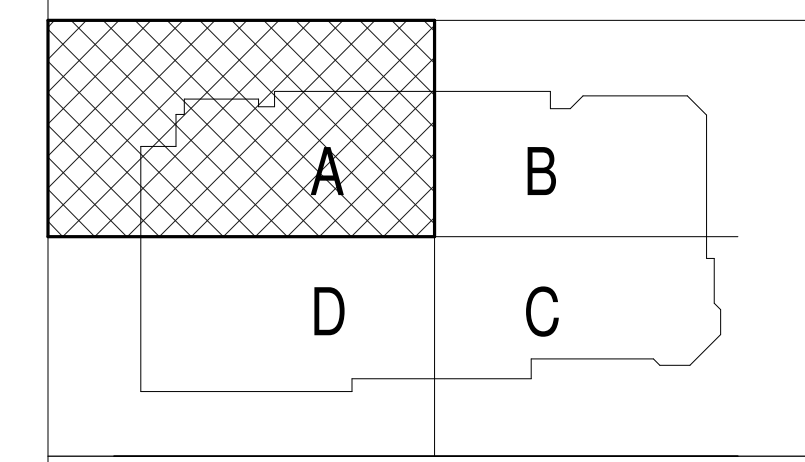
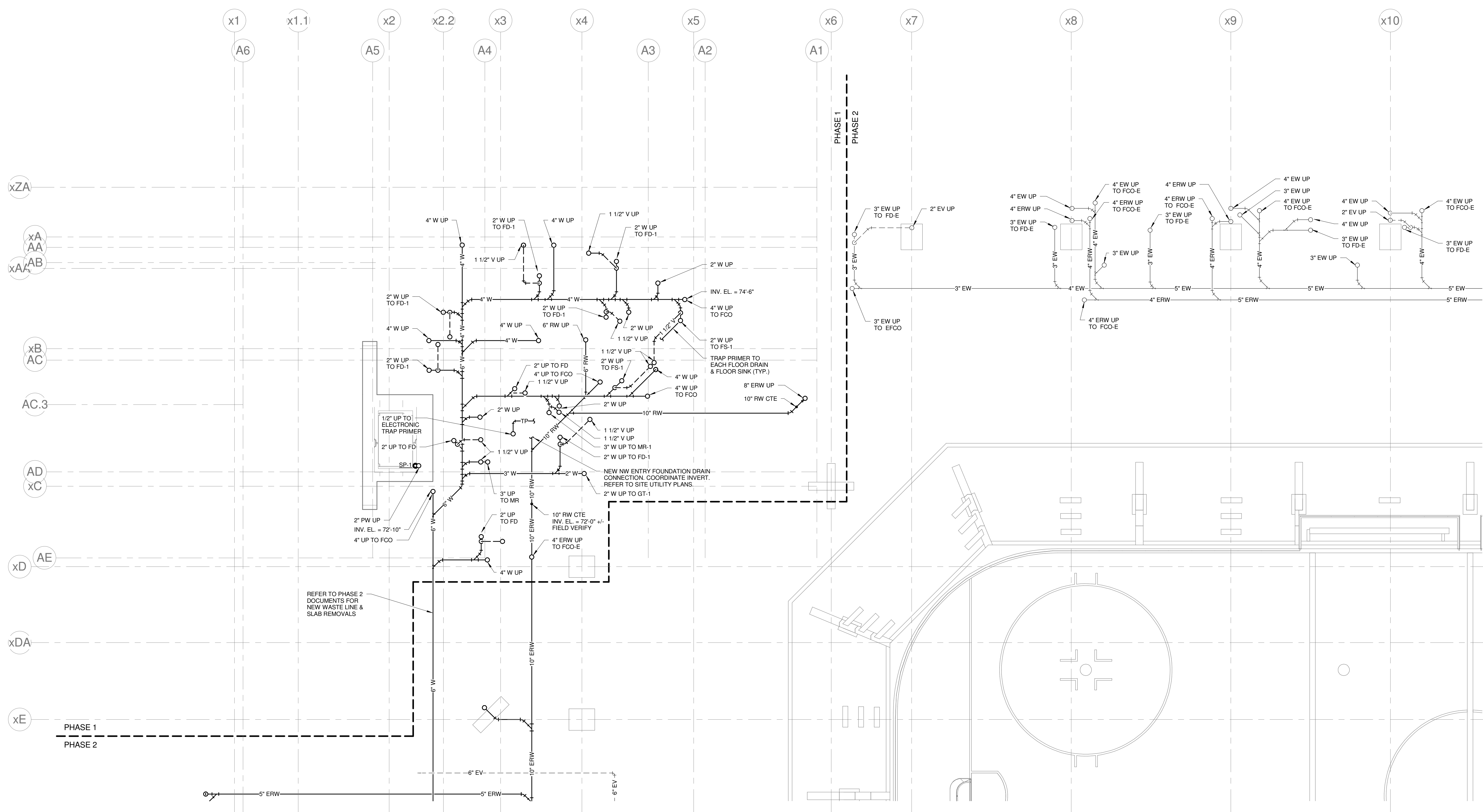
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**GENERAL NOTES:**

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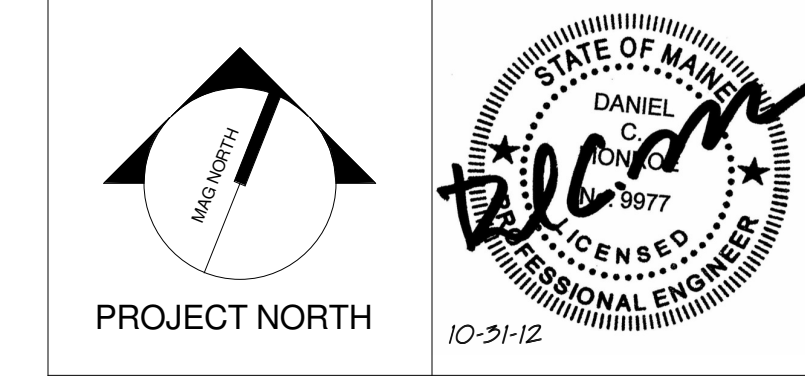
**TECHNICAL NOTES:**

- NO PIPING PERMITTED IN THIS AREA.



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0	NW ENTRY CONSTRUCTION DOCS	10-31-2012

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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**  
PROJECT: PORTLAND, ME  
**EVENT LEVEL PLUMBING PLAN - QUAD A - PHASE 1**

SHEET TITLE:	EVENT LEVEL PLUMBING PLAN - QUAD A - PHASE 1
WBRC CAD FILE:	375700 - 0000 Plumbing.rvt
PROJECT No.:	3757.00
SCALE:	As indicated
PROJECT MANAGER:	JRB
DRAWN BY:	LAC
CHECKED BY:	DMON
SHEET No.:	<b>P2.11A</b>

1 EVENT LEVEL PLUMBING PLAN - QUAD A - PHASE 1  
1/8" = 1'-0"

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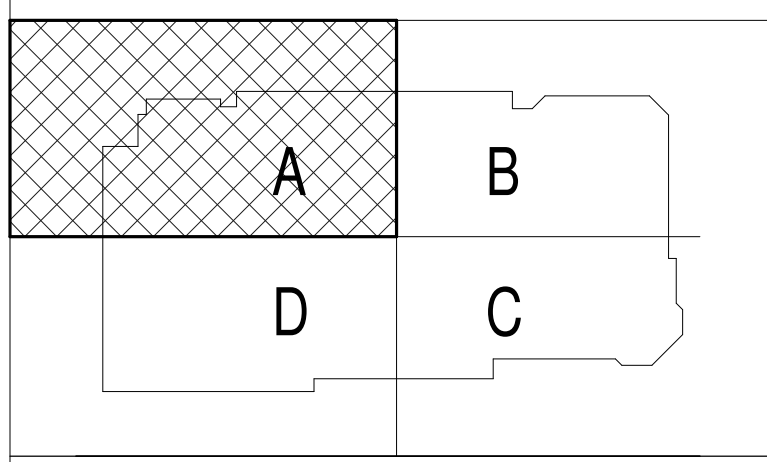
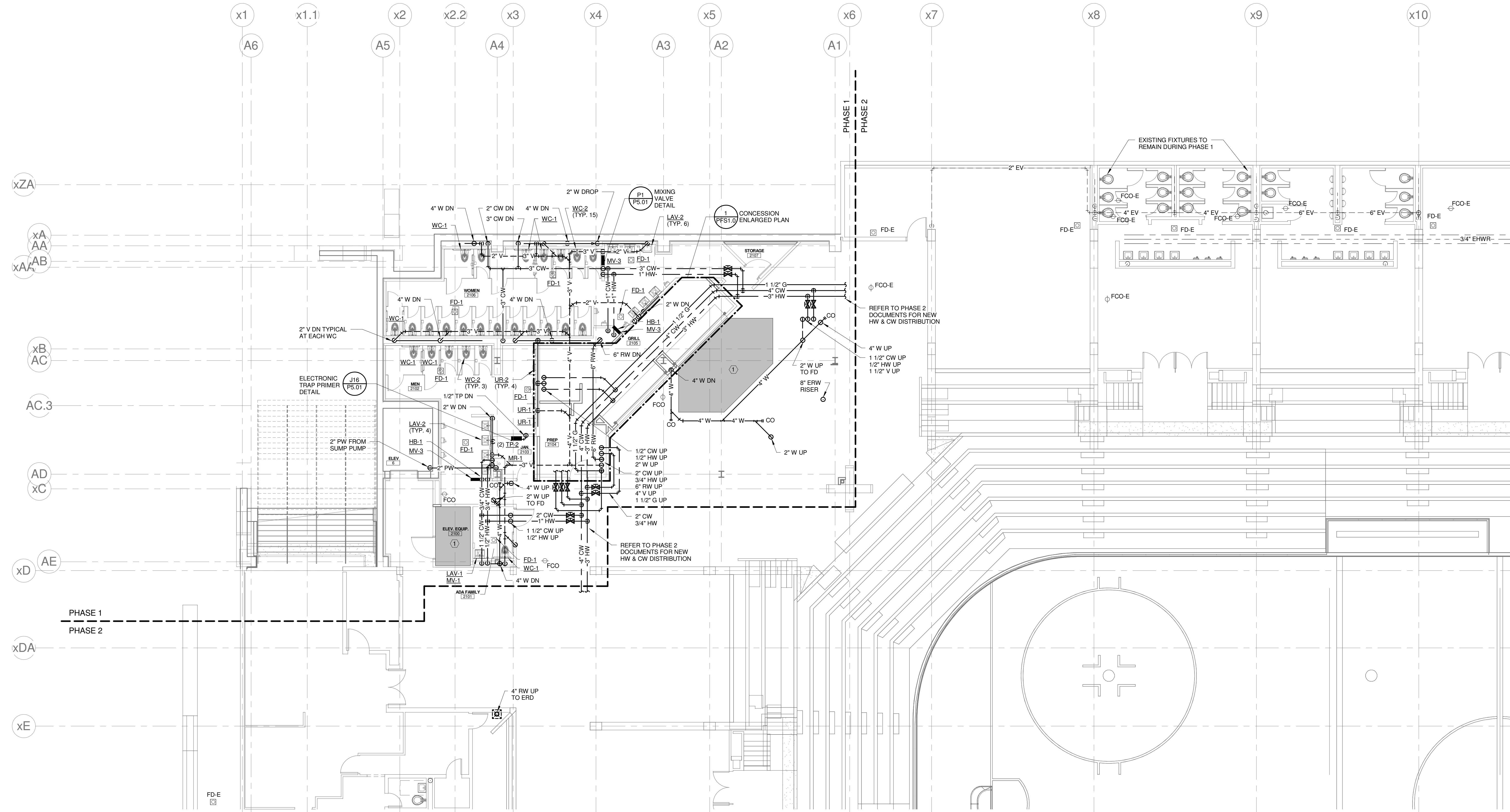
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**GENERAL NOTES:**

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**TECHNICAL NOTES:**

- NO PIPING PERMITTED IN THIS AREA.



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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**

PROJECT: PORTLAND, ME  
**CONCOURSE LEVEL PLUMBING PLAN - QUAD A - PHASE 1**

SHEET TITLE:	WBRC CAD FILE:	375700 - 0000 Plumbing.rvt
PROJECT No.:	3757.00	GRAPHIC SCALE: 1" = 1'-0"
SCALE:	As indicated	
PROJECT MANAGER:	JRB	SHEET No.:
DRAWN BY:	LAC	<b>P2.21A</b>
CHECKED BY:	DMON	

**1 CONCOURSE LEVEL PLUMBING PLAN - QUAD A - PHASE 1**  
1/8" = 1'-0"

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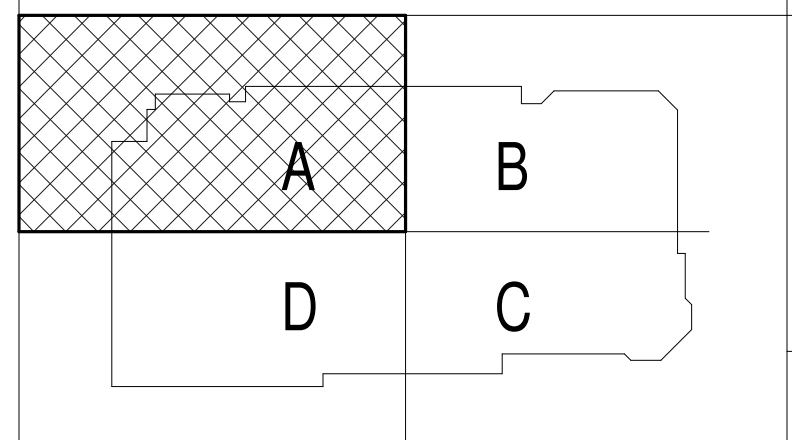
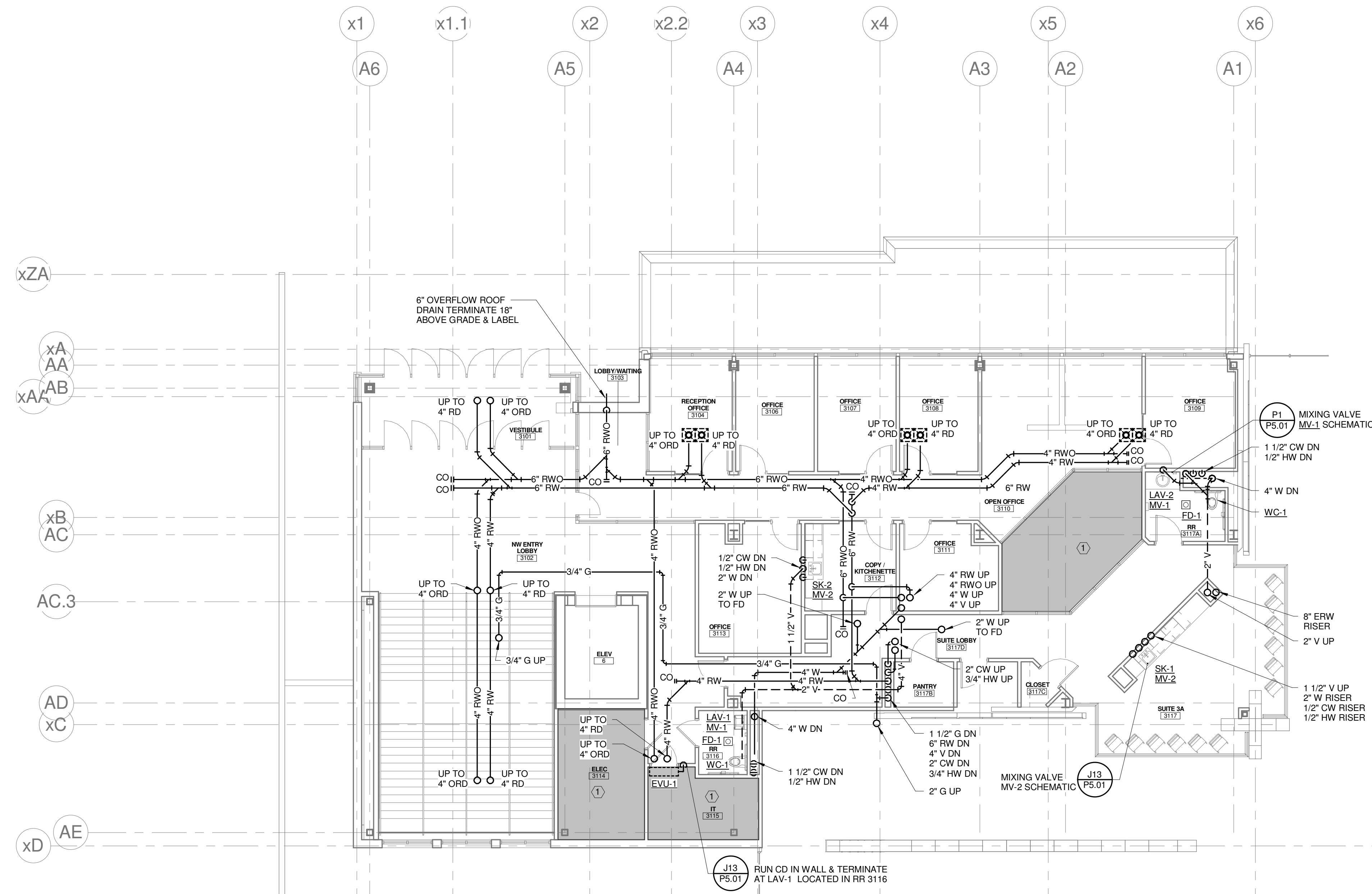
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Suite 100  
Denver, Colorado 80203  
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**GENERAL NOTES:**

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**TECHNICAL NOTES:**

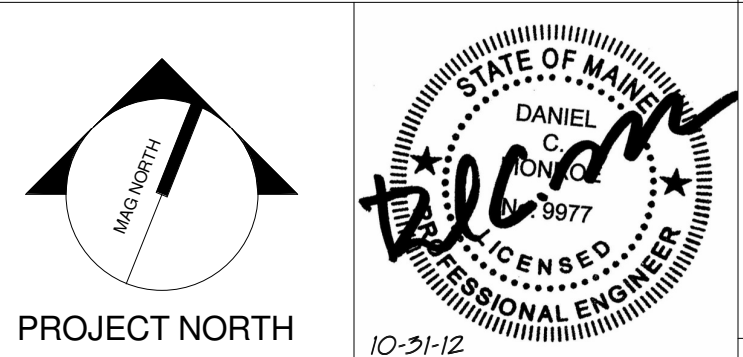
- ① NO PIPING PERMITTED IN THIS AREA.



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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**  
PROJECT: PORTLAND, ME  
**MID SUITES LEVEL PLUMBING PLAN - QUAD A - PHASE 1**

SHEET TITLE:	WBRC CAD FILE:	375700 - 0000 Plumbing.rvt
PROJECT No.:	3757.00	GRAPHIC SCALE: 1" = 1'
SCALE:	As indicated	
PROJECT MANAGER:	JRB	SHEET No.:
DRAWN BY:	LAC	<b>P2.31A</b>
CHECKED BY:	DMON	

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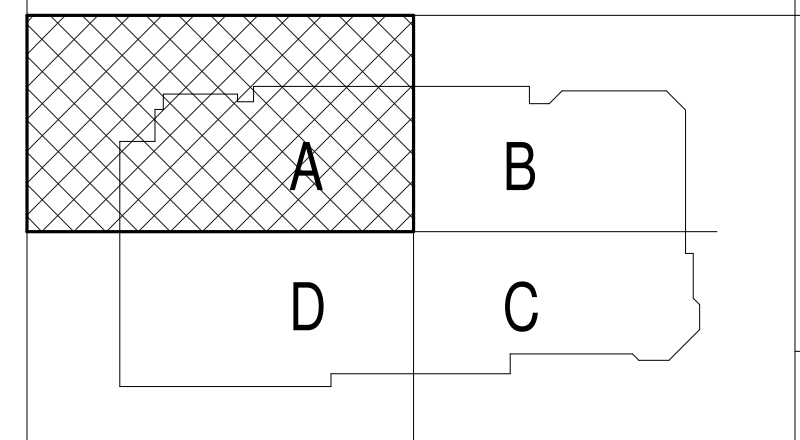
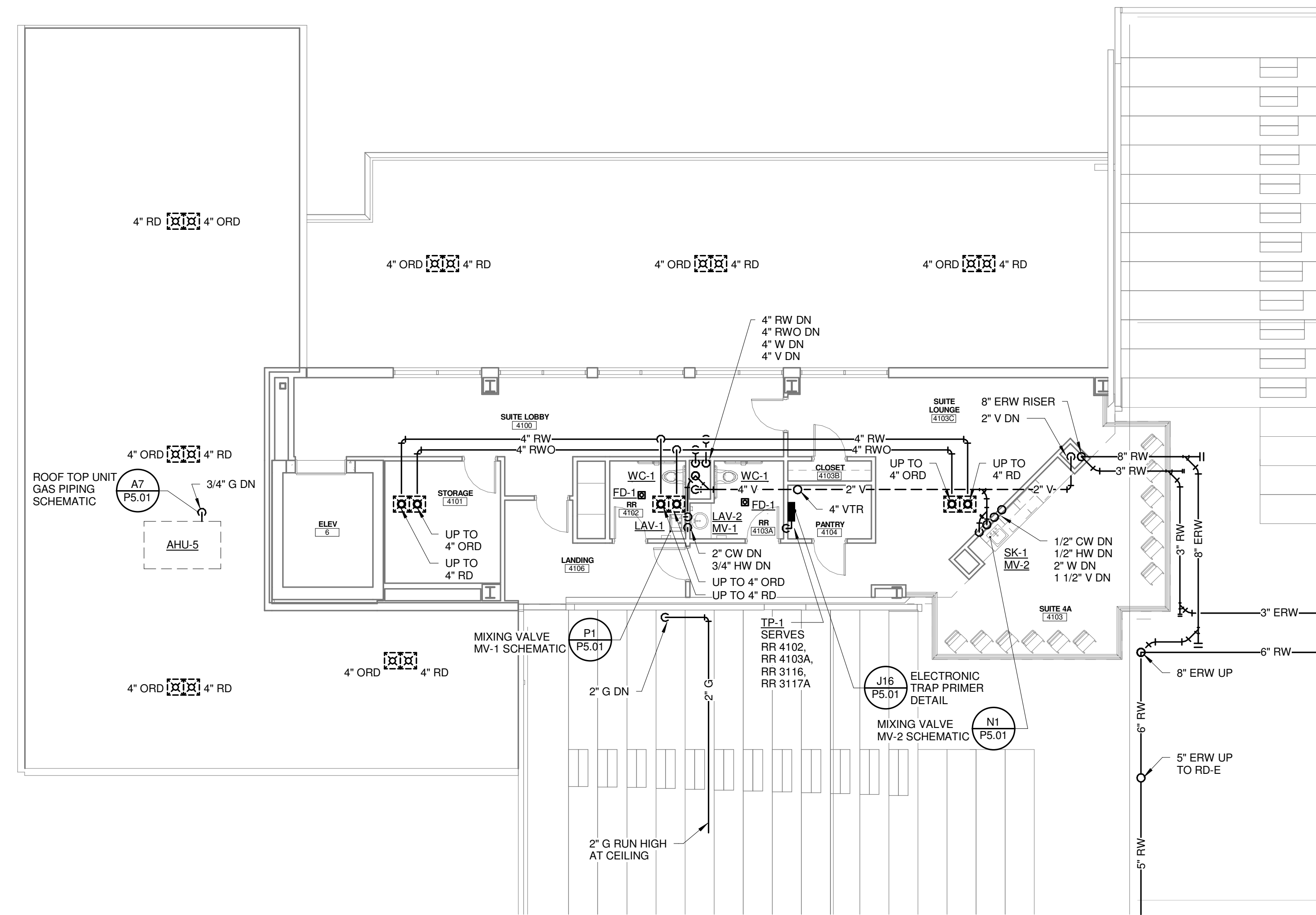
303.398.0200  
FAX 303.398.0202

## GENERAL NOTES:

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## TECHNICAL NOTES:

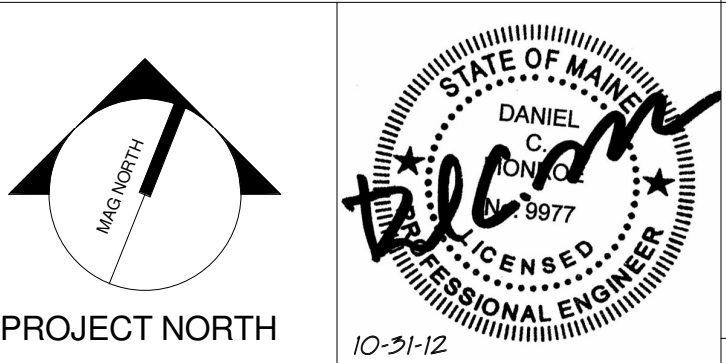
- NO PIPING PERMITTED IN THIS AREA.



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CUMBERLAND COUNTY CIVIC CENTER RENOVATION

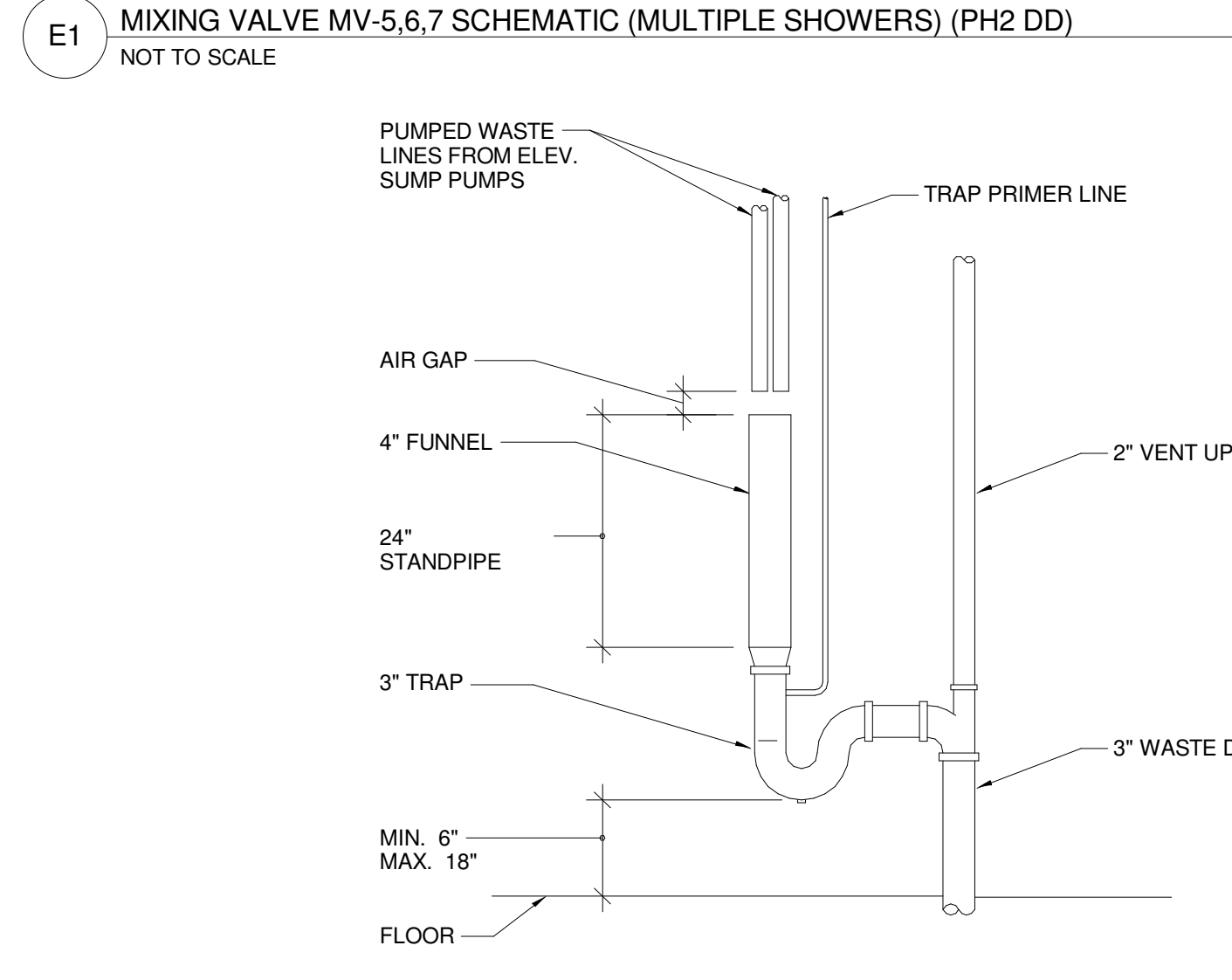
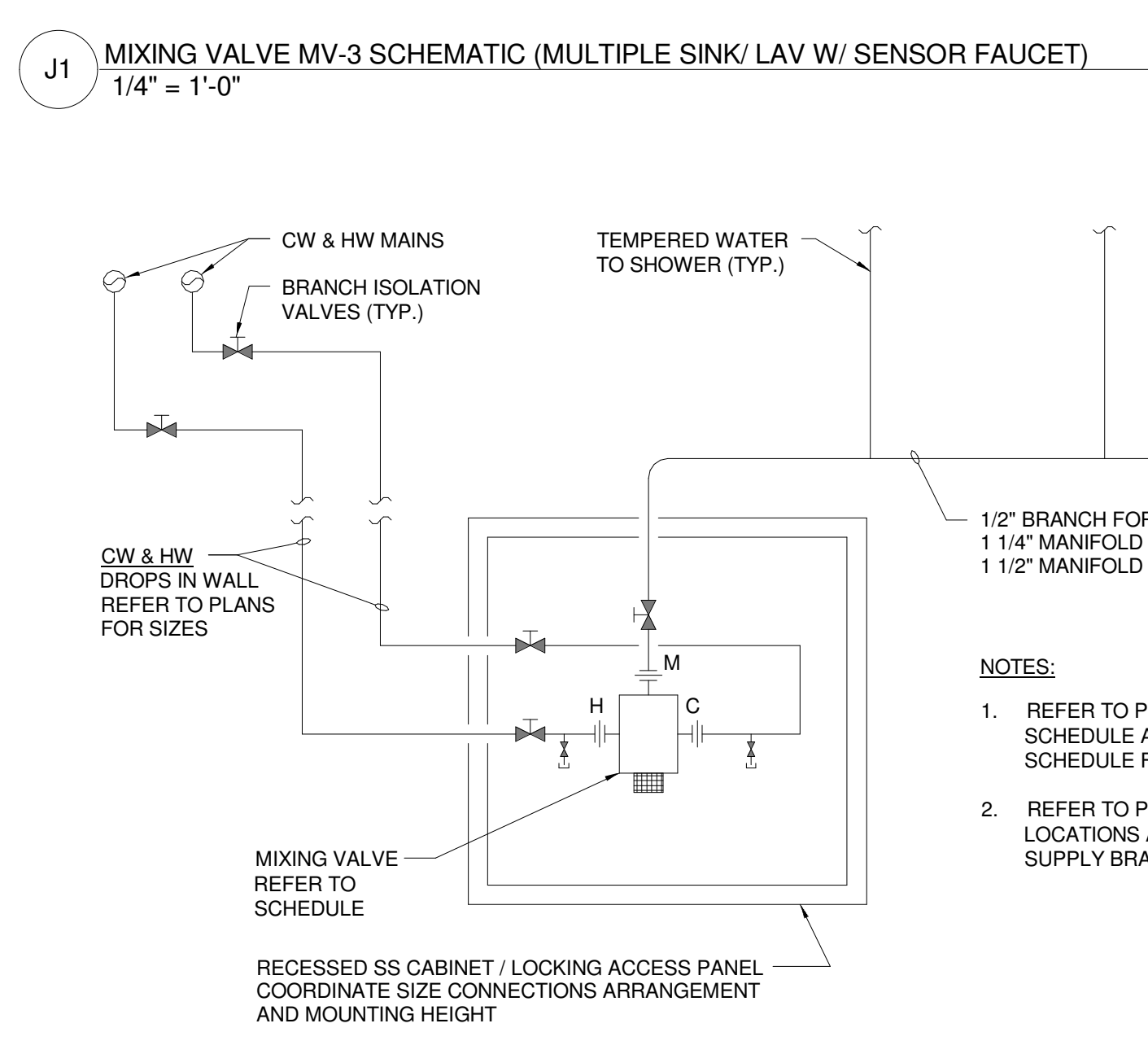
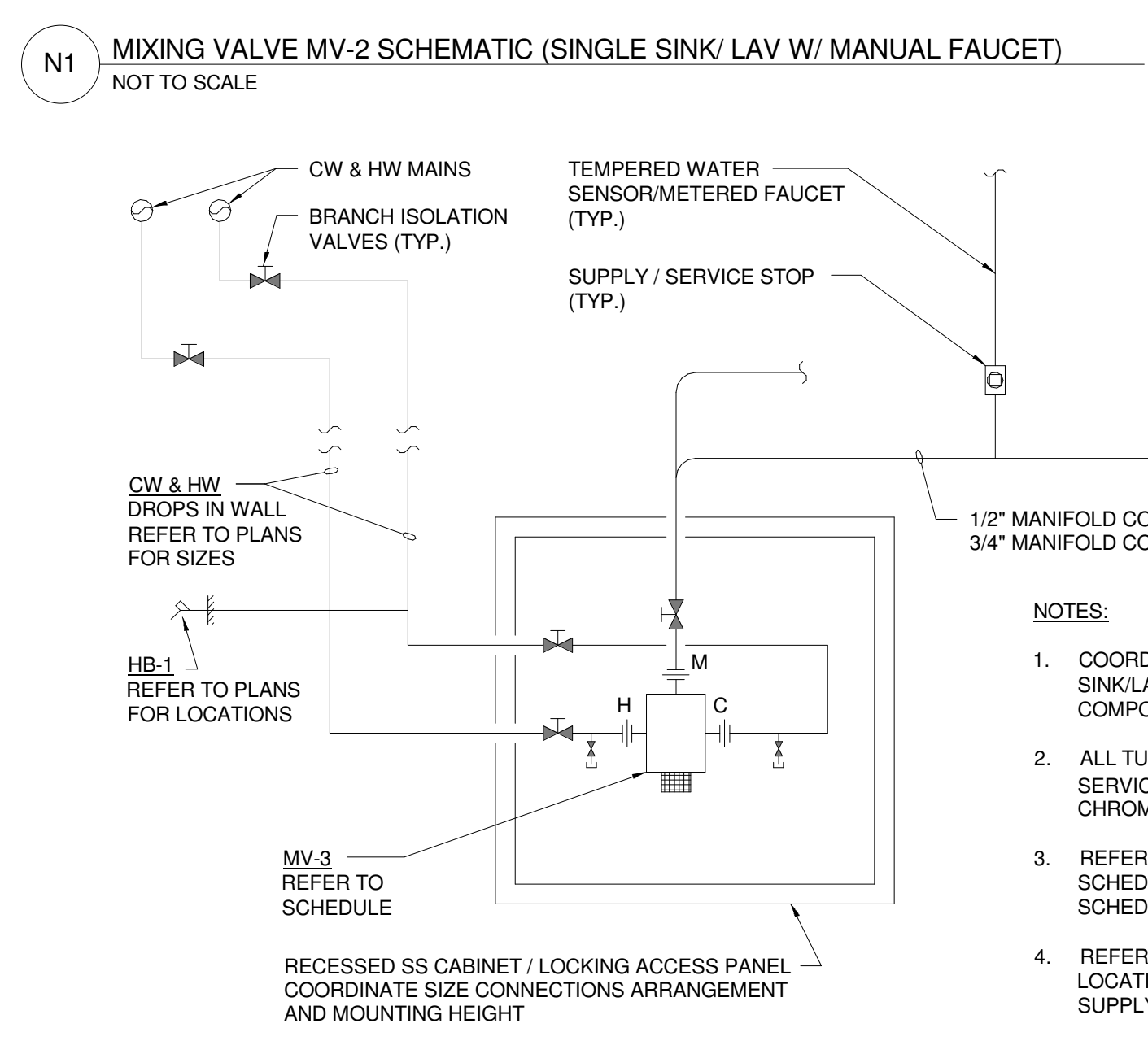
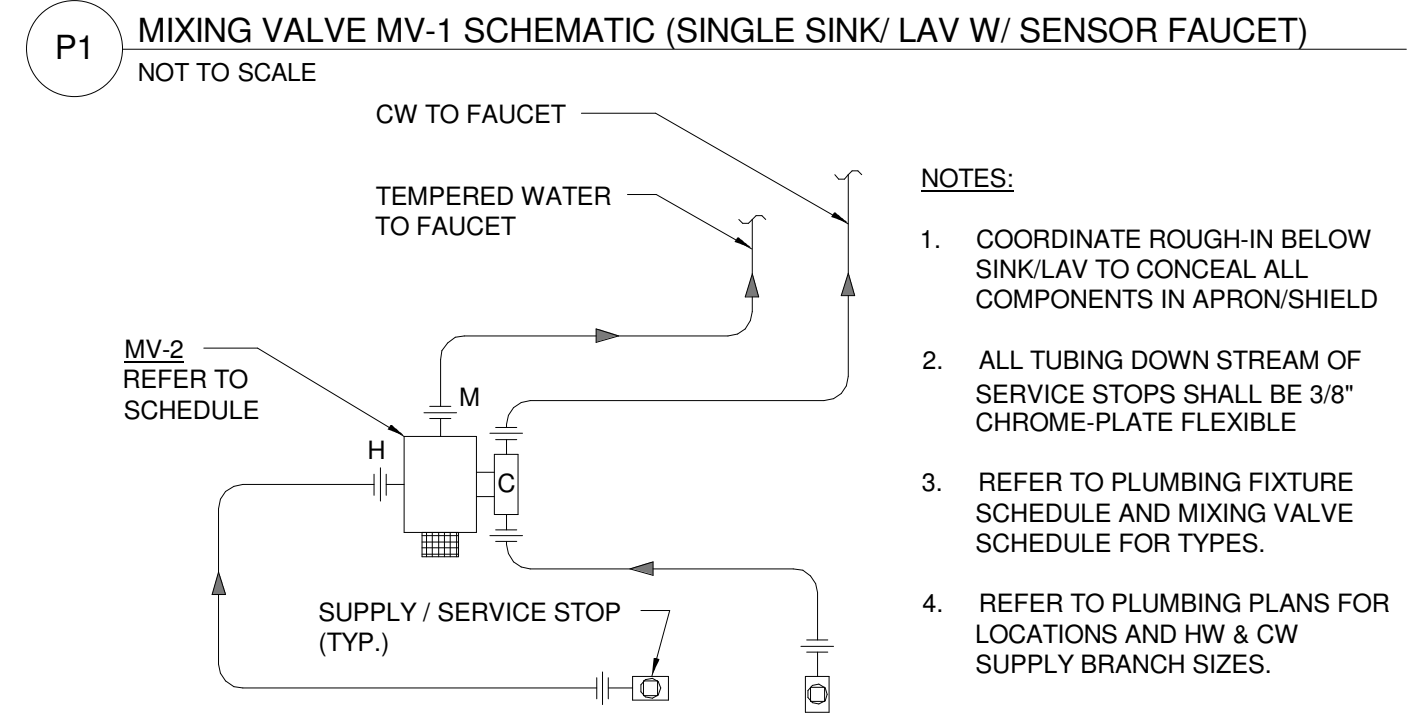
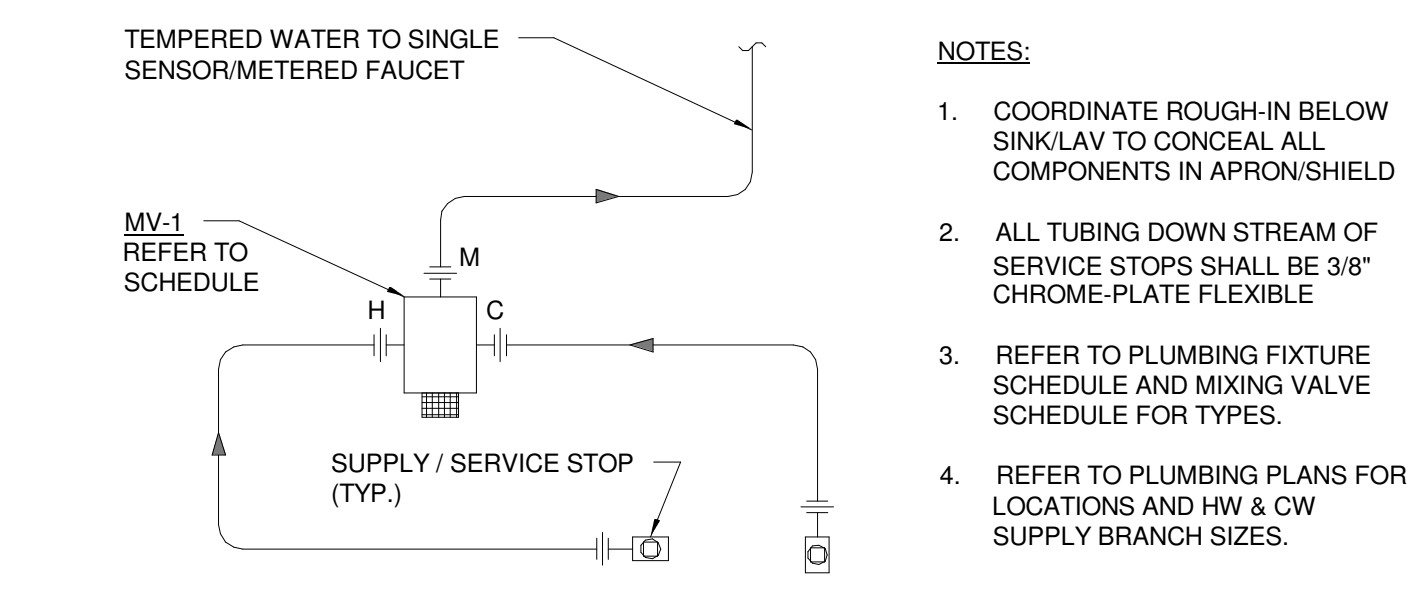
PROJECT: PORTLAND, ME  
UPPER SUITES LEVEL  
PLUMBING PLAN - QUAD A - PHASE 1

SHEET TITLE:  
WBRC CAD FILE: 375700 - CCCC Plumbing.dwg  
PROJECT No.: 3757.00 GRAPHIC SCALE: 1" = 1'-0"  
SCALE: As indicated  
PROJECT MANAGER: JRB  
DRAWN BY: LAC  
CHECKED BY: DMON  
SHEET No.: P2.41A

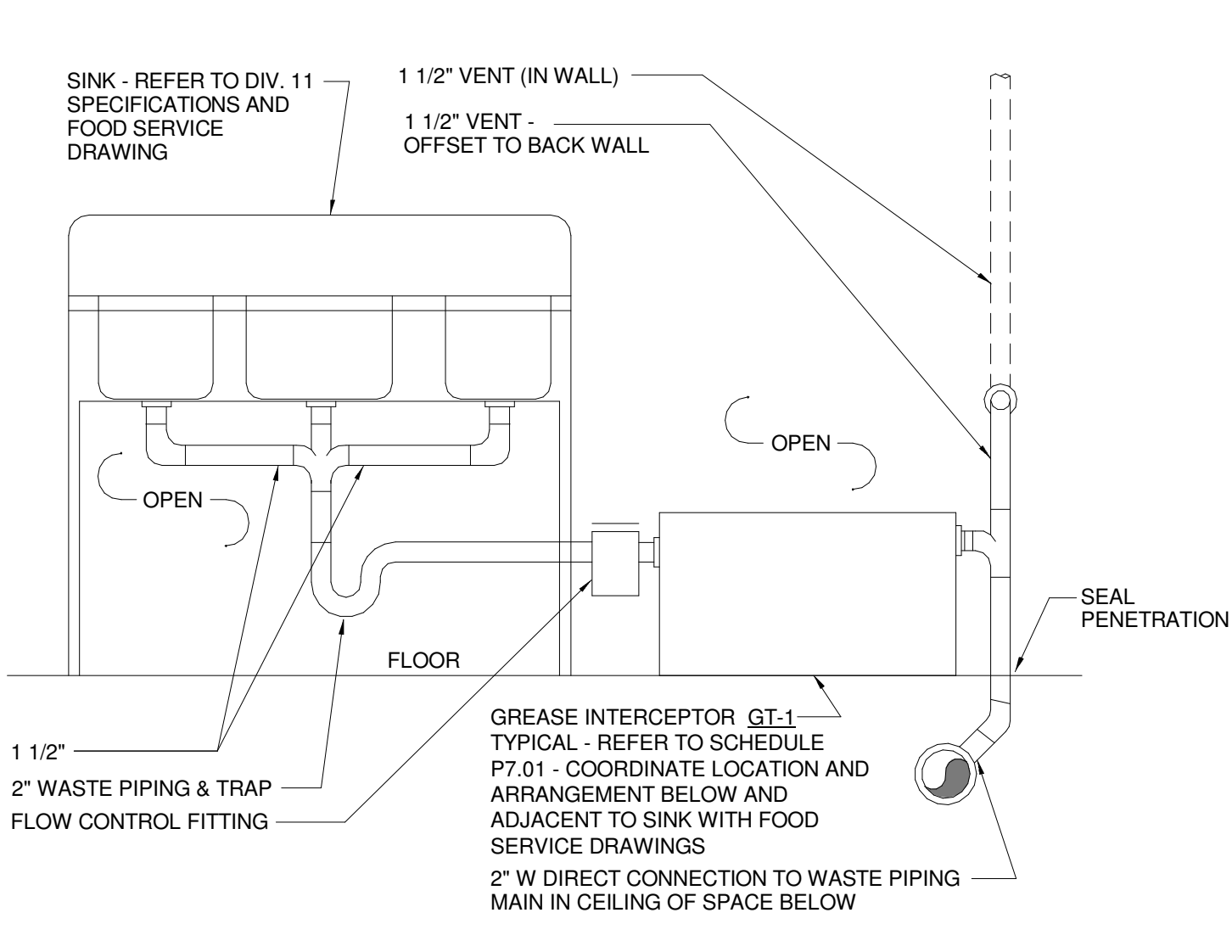
1 UPPER SUITES LEVEL PLUMBING PLAN - QUAD A - PHASE 1  
1/8" = 1'-0"

**SINK COMBS DETHLEFS**

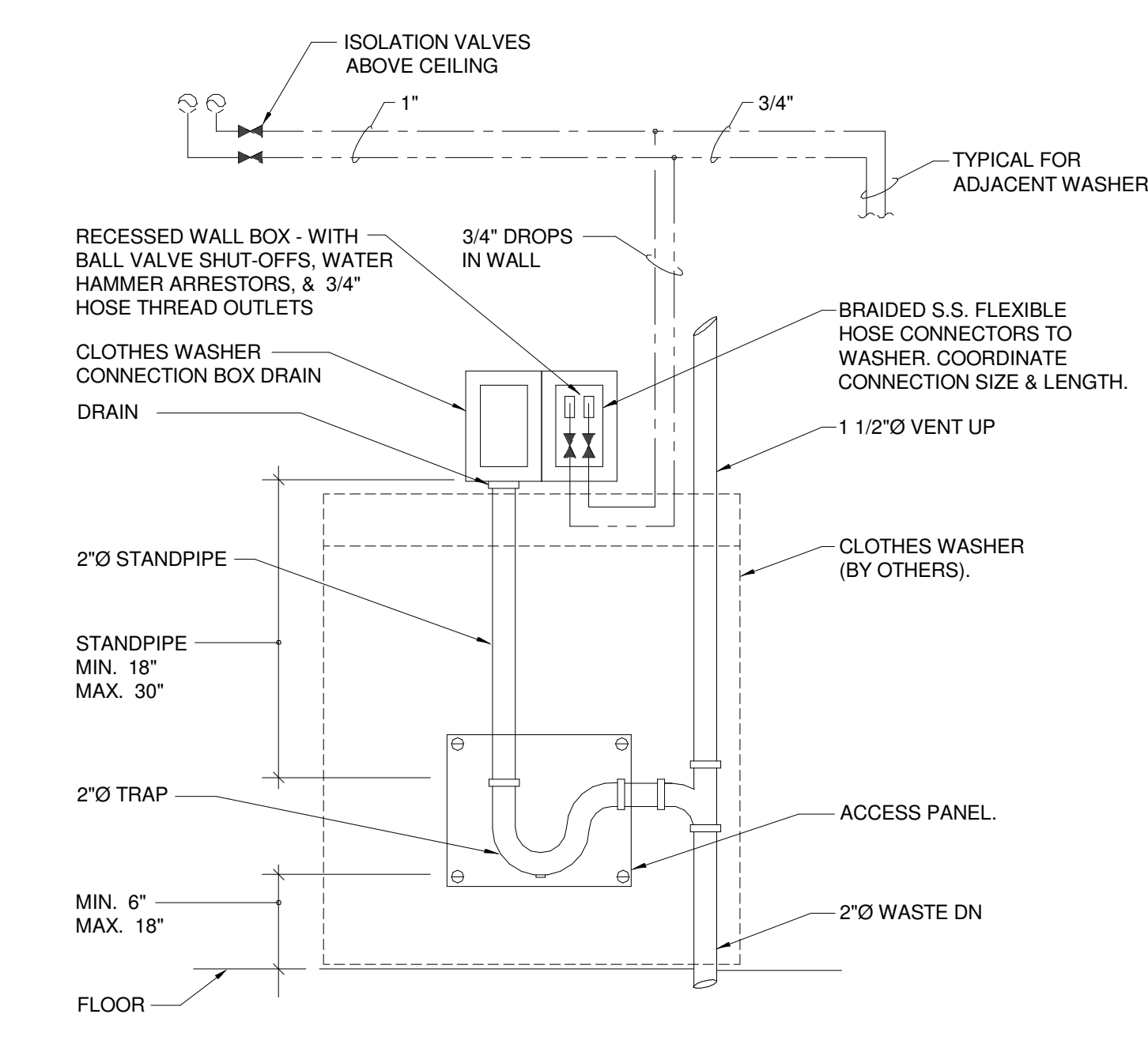
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Denver, Colorado 80202  
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FAX: 303.336.0222



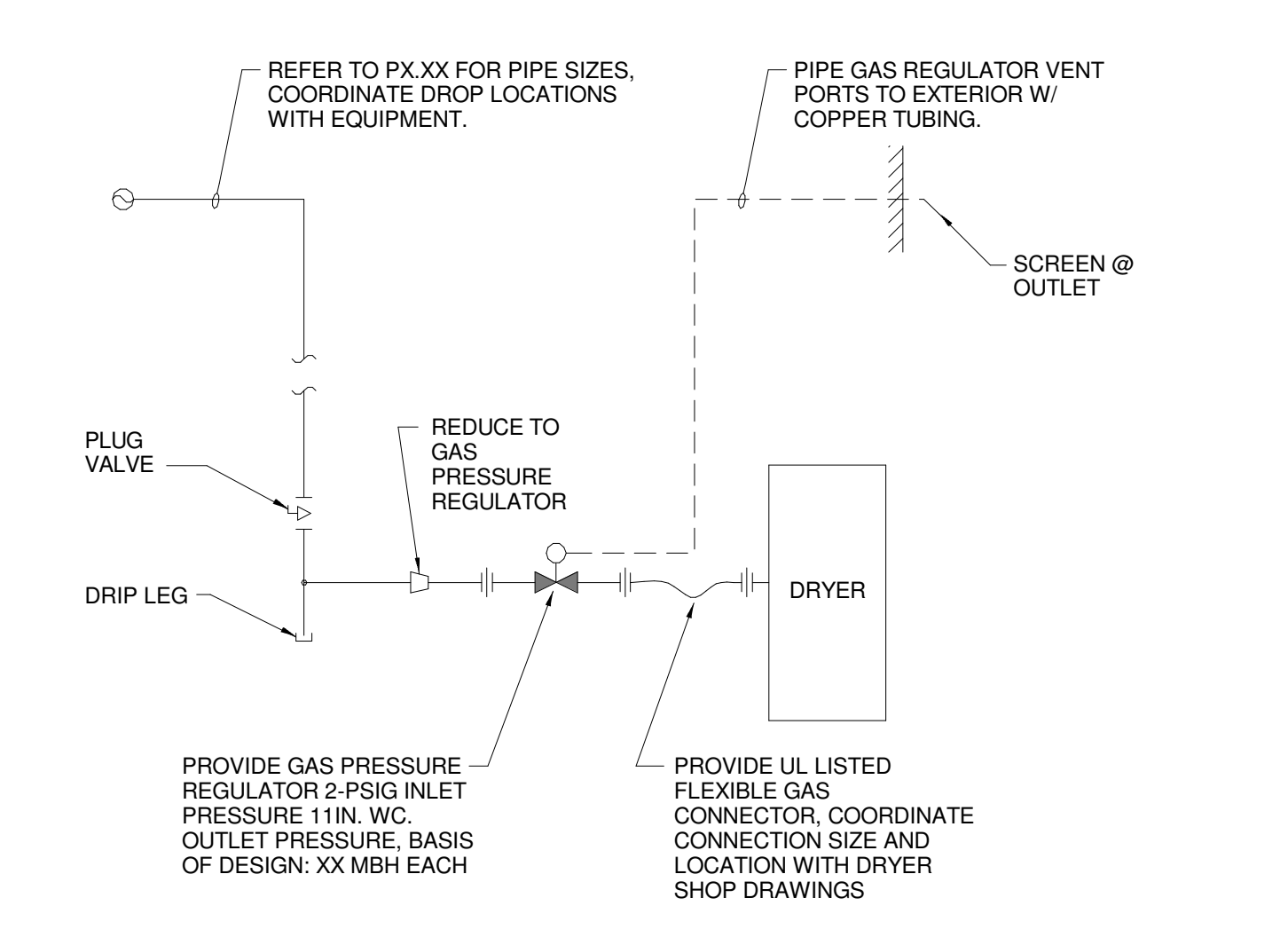
**A1** STAND DRAIN PIPING SCHEMATIC  
NOT TO SCALE



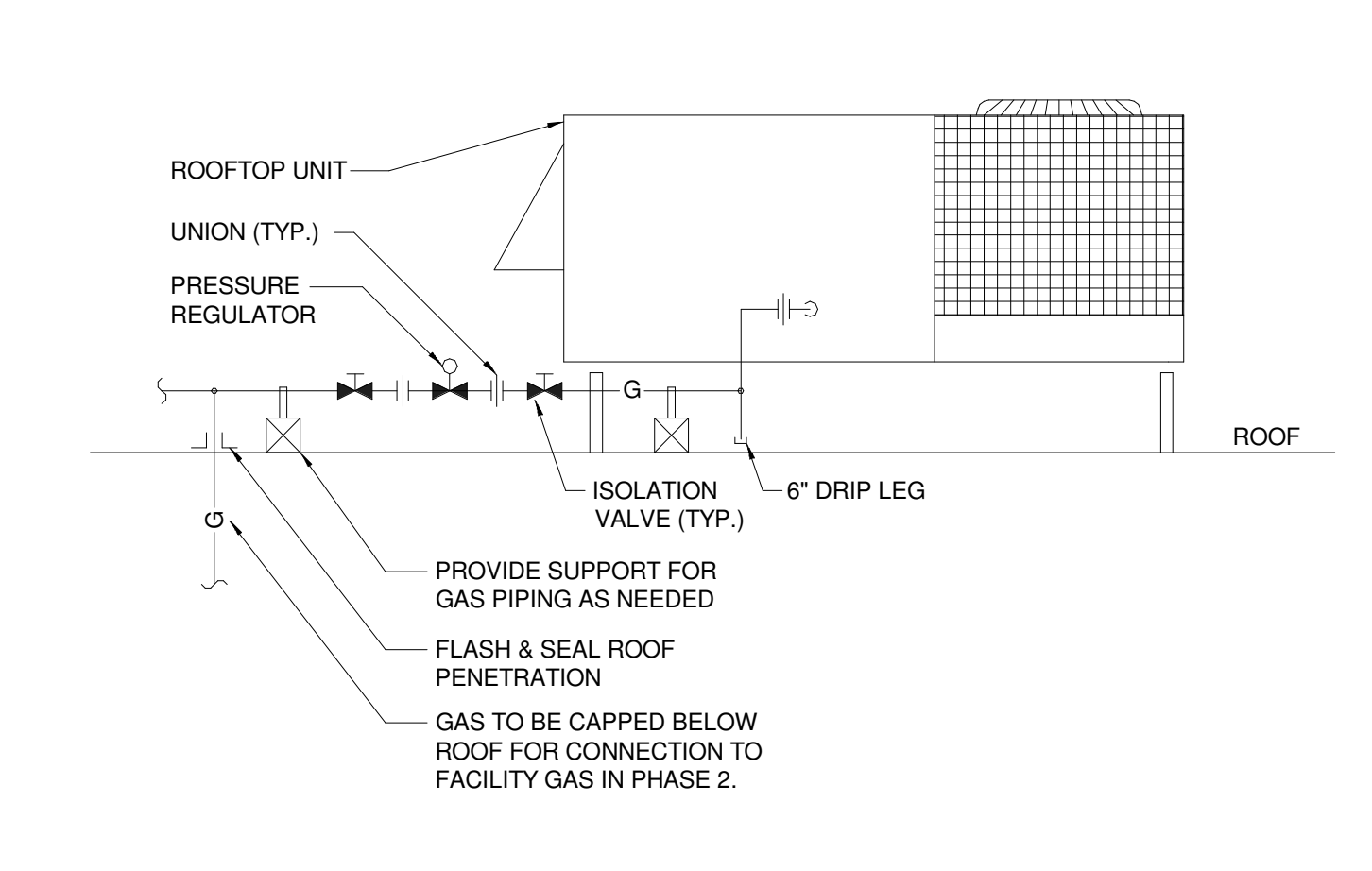
**N7** GREASE INTERCEPTOR DETAIL  
NOT TO SCALE



**J7** CLOTHES WASHER WATER PIPING SCHEMATIC (PH2 DD)  
NOT TO SCALE



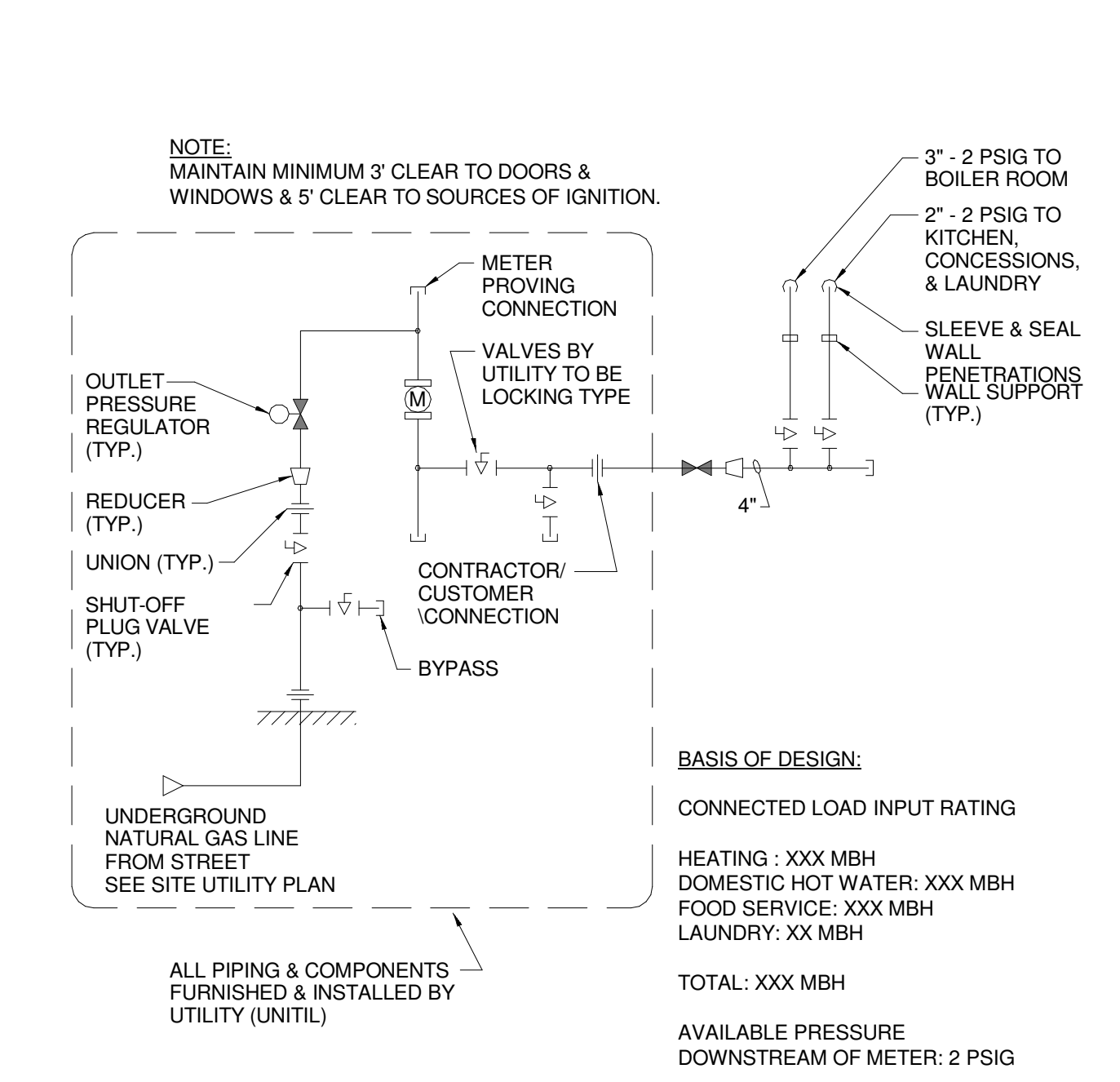
**E7** CLOTHES DRYER GAS PIPING SCHEMATIC (PH2 DD)  
NOT TO SCALE



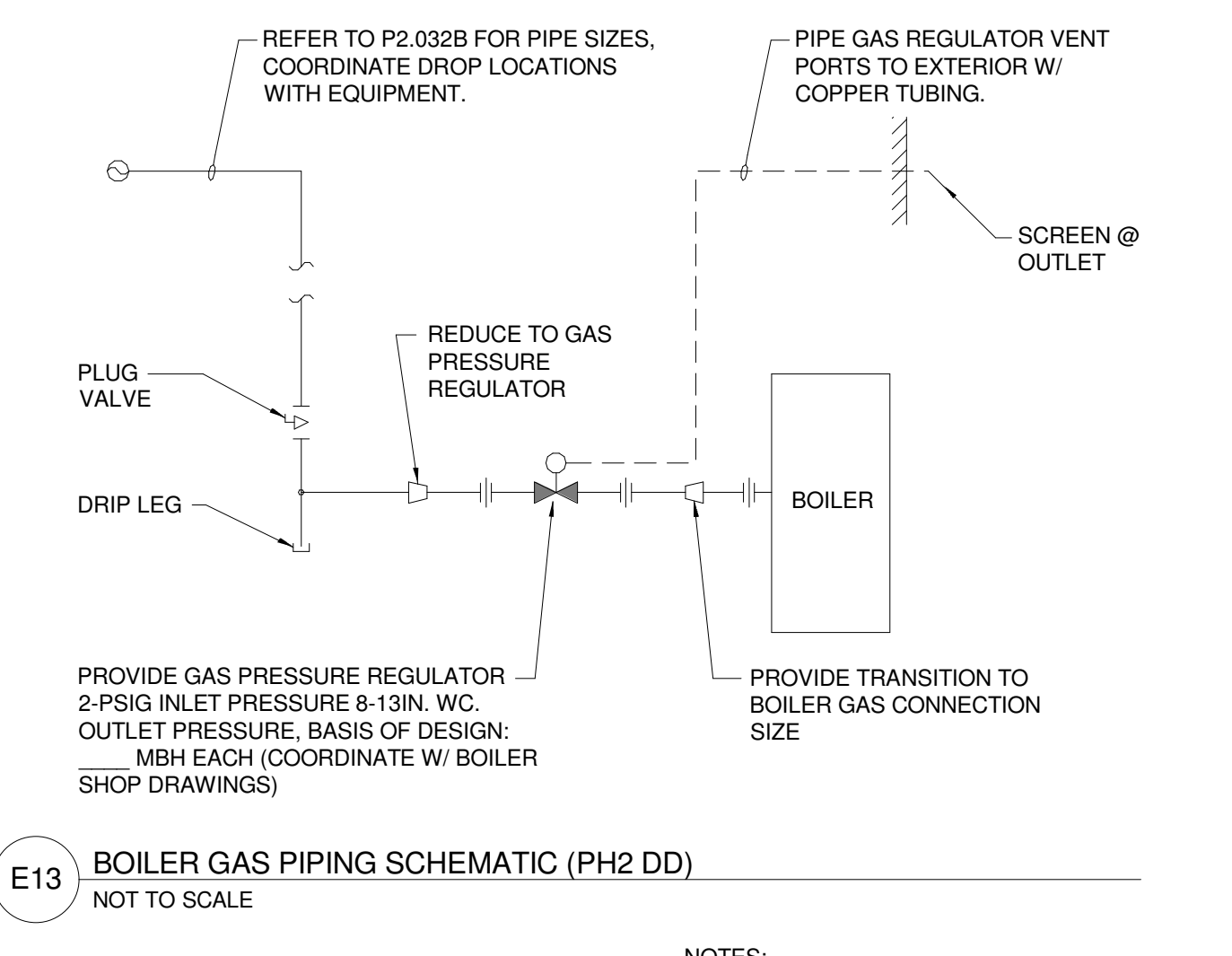
**A7** RTU GAS PIPING SCHEMATIC  
NOT TO SCALE



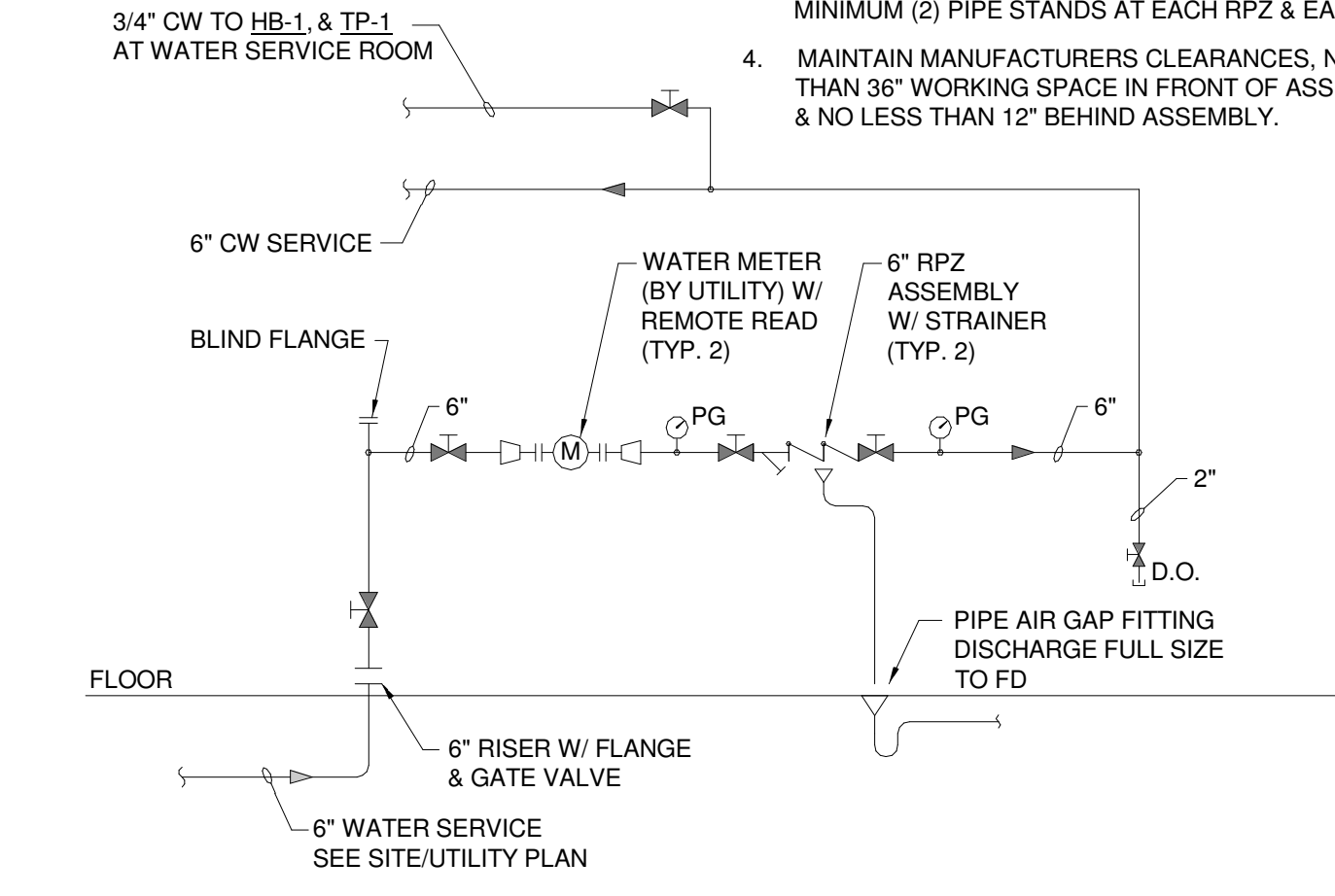
**N13** DOMESTIC WATER HEATER PIPING SCHEMATIC  
NOT TO SCALE



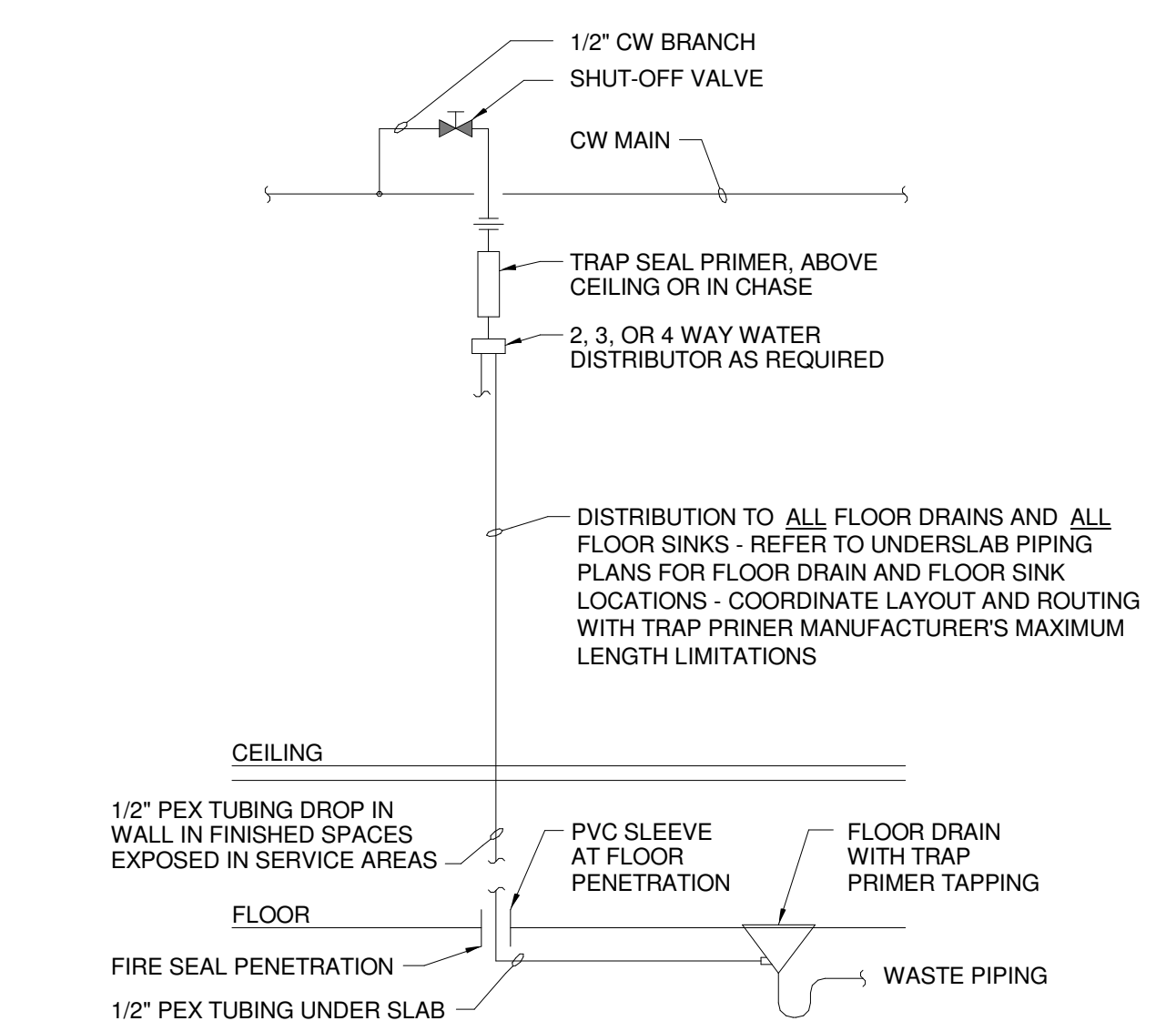
**J13** GAS SERVICE PIPING SCHEMATIC (PH2 DD)  
NOT TO SCALE



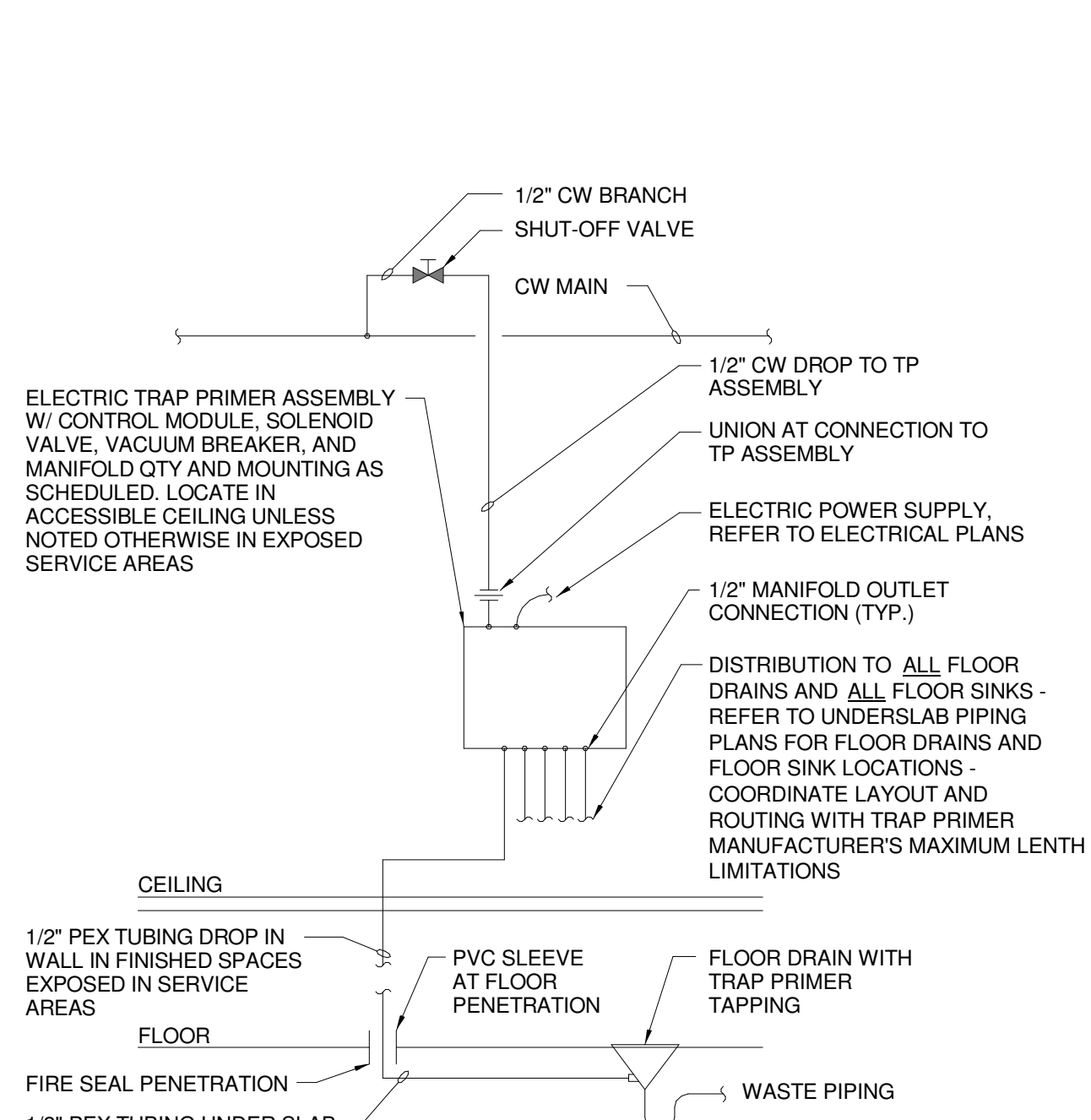
**E13** BOILER GAS PIPING SCHEMATIC (PH2 DD)  
NOT TO SCALE



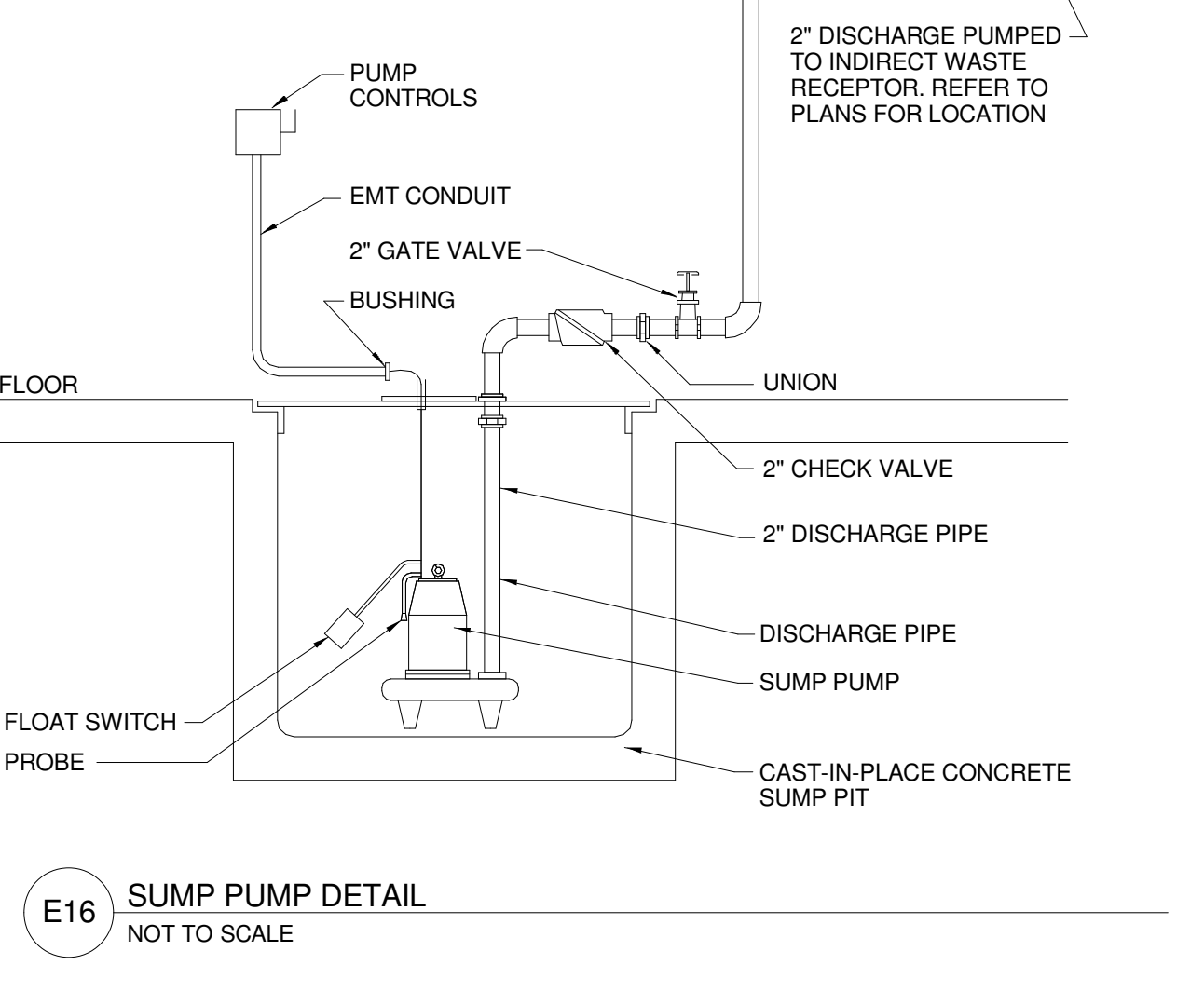
**A13** DOMESTIC WATER ENTRANCE SCHEMATIC (PH2 DD)  
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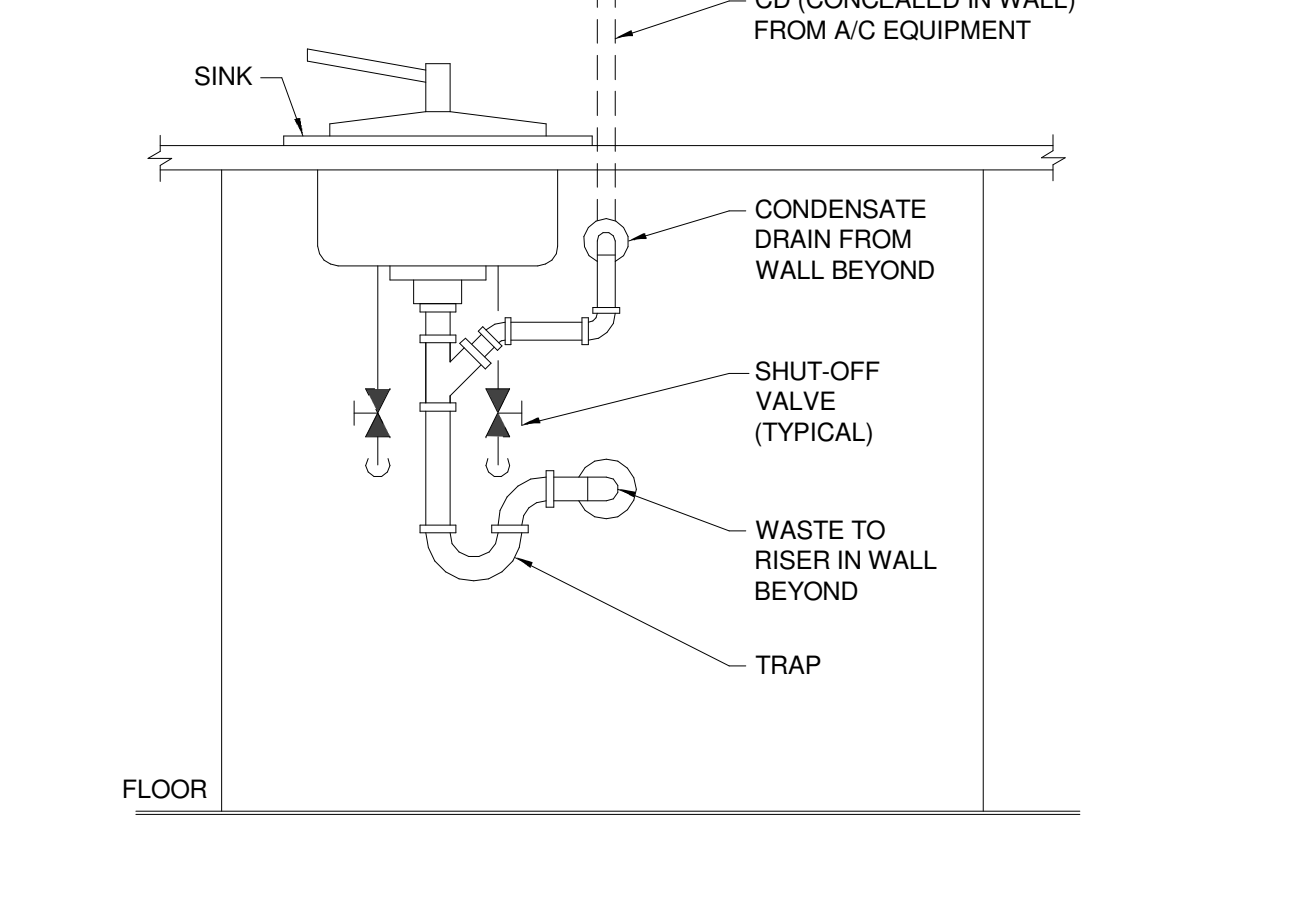
**N16** TRAP PRIMER DETAIL  
NOT TO SCALE



**J16** ELECTRONIC TRAP PRIMER  
NOT TO SCALE



**E16** SUMP PUMP DETAIL  
NOT TO SCALE



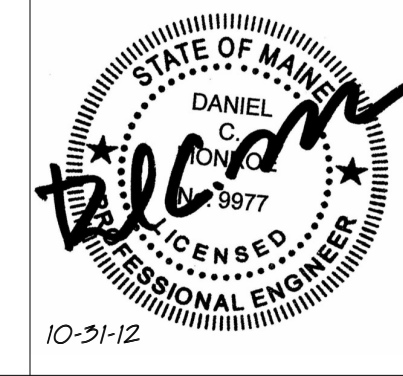
**A15** INDIRECT WASTE TERMINATION DETAIL  
NOT TO SCALE

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10-31-2012

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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**

**PLUMBING DETAILS**

PROJECT:	PORTLAND, ME	SHEET No.	
SHEET TITLE:	PLUMBING DETAILS	DATE:	10-31-12
WBRC CAD FILE:	375700 - 0202 Plumbing.rvt	GRAPHIC SCALE:	1" = 1'-0"
PROJECT No.:	3757.00	SCALE:	1/4" = 1'-0"
PROJECT MANAGER:	JRB	CHECKED BY:	DMON
DRAWN BY:	CGB		

**P5.01**

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475 Lincoln Street,  
Suite 100  
Denver, Colorado 80202  
303.336.0200  
FAX 303.336.0202

**PLUMBING FIXTURE CONNECTION SCHEDULE**

TAG	DESCRIPTION	HW	CW	TRAP	WASTE	VENT	NOTES
WC-1	ADA WALL MOUNTED WATER CLOSET	-	1"	-	3"	2"	SENSOR FLUSH VALVE
WC-2	WALL MOUNTED WATER CLOSET	-	1"	-	3"	2"	SENSOR FLUSH VALVE
UR-1	ADA URINAL	-	3/4"	2"	2"	1 1/2"	WATERLESS
UR-2	URINAL	-	3/4"	2"	2"	1 1/2"	WATERLESS
LAV-1	ADA WALL MOUNTED LAVATORY	1/2"	1/2"	1 1/4"	1 1/2"	1 1/2"	SENSOR FAUCET
LAV-2	ADA COUNTER RECESSED LAVATORY	1/2"	1/2"	1 1/4"	1 1/2"	1 1/2"	SENSOR FAUCET
SK-1	SINGLE BOWL UNDERMOUNT SINK	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	
SK-2	FIRST AID SINK	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	
SK-3	KITCHEN SINK	1/2"	1/2"	1 1/2"	1 1/2"	1 1/2"	
SH-1	ADA SHOWER (CABINET)	1/2"	1/2"	2"	2"	1 1/2"	
SH-2	SHOWER (FIELD BUILT)	1/2"	1/2"	2"	2"	1 1/2"	
SH-3	ADA SHOWER (FIELD BUILT)	1/2"	1/2"	2"	2"	1 1/2"	
DF-1	ADA DUAL HEIGHT DRINKING FOUNTAIN	-	1/2"	1 1/4"	1 1/2"	1 1/2"	
MR-1	MOP RECEPTOR	1/2"	1/2"	3"	3"	2"	
WB-1	ICE MAKER WALL BOX CONNECTION	-	1/2"	-	-	-	MOUNTING HEIGHT 4'-0"
EE-1	EYEWASH W/ DRENCH HOSE - WALL MTD	1/2"	1/2"	-	-	-	1/2" TEMPERED WATER
EE-2	EYEWASH W/ DRENCH HOSE - PULL OUT COUNTER MTD	1/2"	1/2"	-	-	-	1/2" TEMPERED WATER
FD-1	FLOOR DRAIN	-	-	2"	2"	1-1/2"	STANDARD DUTY
FD-2	FLOOR DRAIN	-	-	2"	2"	1-1/2"	HEAVY DUTY
FD-3	FLOOR DRAIN W/ FUNNEL	-	-	2"	2"	1 1/2"	
FD-4	SHOWER FLOOR DRAIN	-	-	2"	2"	1 1/2"	
FS-1	FLOOR SINK	-	-	2"	2"	1 1/2"	HALF GRATE
FS-2	FLOOR SINK	-	-	4"	4"	2"	HALF GRATE
TD-1	TRENCH DRAIN	-	-	4"	4"	2"	
HB-1	HOSE BIB	-	1/2"	-	-	-	INTERIOR
WH-1	WALL HYDRANT	-	1/2"	-	-	-	

PH2 DD

**DOMESTIC HW RECIRC. PUMP SCHEDULE (PH2 DD)**

TAG	LOCATION	SYSTEM	MODEL	TYPE	GPM	HEAD FT	HP	RPM	POWER	NOTES
HWR-1	BOILER ROOM	-	-	IN-LINE	-	-	-	-	-	(1) (2)
HWR-2	BOILER ROOM	-	-	IN-LINE	-	-	-	-	-	(1) (2)
HWR-3	BOILER ROOM	KITCHEN HW RECIRC	007-SF5	IN-LINE	6	9	1/25	3250	120V/1	(1) (2)

**PLUMBING PUMP SCHEDULE NOTES:**

- ① BASED ON -

**SUMP PUMP SCHEDULE**

TAG	LOCATION	SYSTEM	MODEL	TYPE	GPM	HEAD FT	HP	RPM	POWER	NOTES
SP-1	ELEV. SUMP PIT	SUMP PUMP	940-0007	SUBMERSIBLE	50	21	1/2	3250	120V/1	(3) (4)

**PLUMBING PUMP SCHEDULE NOTES:**

- ① BASED ON TACO
- ② BRONZE CONSTRUCTION
- ③ BASED ON ZOELLER OIL SMART PACKAGED SIMPLEX SYSTEM WITH 10-2149 OIL SMART SIMPLEX PANEL
- ④ TYPICAL FOR EACH ELEVATOR SUMP PIT.

**MIXING VALVE SCHEDULE**

TAG	SERVICE	MIN. FLOW (GPM)	DESIGN FLOW (GPM)	OUTLET TEMP. SET POINT (DEG. F)	MAX. PRESS. DROP @ DESIGN FLOW (PSI)	INLETS (IN)	OUTLET (IN)	MODEL #	NOTES
MV-1	SINGLE LAV (SENSOR)	0.5	0.5	105	5	3/8	3/8	170-LF	(1) (2) (3)
MV-2	SINGLE SINK (2 HANDLE MANUAL)	0.5	1.5	105	5	3/8	3/8	170-LF-BP-BRKT	(1) (2) (4) (5)
MV-3	MULTIPLE LAV (SENSOR)	0.5	4.0	105	6	1/2	1/2	270-LF	(1) (2) (3) (6)
MV-4	TYPICAL EYE WASH	0.5	2.5	85	5	1/2	1/2	TA-300	(1) (2)
MV-5	SHOWER (SINGLE)	1.5	1.5	110	5	1/2	1/2	LV-10E	(1) (2)
MV-6	SHOWER (UP TO 7)	1.5	10.5	110	5	3/4	3/4	TM-28	(1) (2) (3)
MV-7	SHOWER (UP TO 12)	1.5	18	110	5	3/4	3/4	TM-30	(1) (2) (3)

PH2 DD

**MIXING VALVE SCHEDULE NOTES:**

- ① BASED ON LEONARD
- ② INLET CHECK-STOPS
- ③ RECESSED STAINLESS STEEL CABINET
- ④ COLD WATER BYPASS
- ⑤ BRACKET FOR CONCEALED INSTALLATION AND MOUNTING IN CASEWORK
- ⑥ SIZED FOR MAXIMUM 8 LAV

**DOMESTIC WATER HEATER SCHEDULE**

UNIT	MODEL #	FUEL	INPUT MBH	STORAGE GAL.	RECOVERY GPH @ 100F RISE	INTAKE VENT CONN.	BLOWER EXHAUST CONN.	ELEC.	WEIGHT (LBS)	NOTES
DWH-1	-	-	-	-	-	-	-	-	-	(1) (2) (3) (4)
DWH-2	-	-	-	-	-	-	-	-	-	(1) (2) (3) (4)
DWH-3	-	-	-	-	-	-	-	-	-	(1) (2) (3) (4)

**DOMESTIC WATER HEATER SCHEDULE NOTES:**

- ① BASED ON LOCHINVAR

**TRAP PRIMER SCHEDULE**

TAG	MODEL #	INLET	MANIFOLD		ELEC.	MOUNTING	NOTES
			OUTLETS	CONNECTION			
TP-1	Z1020	1/2"	5	1/2" PEX	120V	SURFACE	(1) (2)
TP-2	Z1020-10	1/2"	10	1/2" PEX	120V	SURFACE	(1) (2)
TP-3	Z1022	1/2"	1 - 4	1/2" UNION	N/A	INLINE	(1)

**TRAP PRIMER SCHEDULE NOTES:**

- ① BASED ON ZURN
- ② PROVIDE W/ TRANSFORMER (120V/24VAC, 1 AMP FUSE), BALL VALVE, & VACUUM BREAKER.

**PLUMBING EXPANSION TANK SCHEDULE (PH2 DD)**

TAG	SERVICE	MODEL #	TANK				NOTES
			VOLUME	ACCEPTABLE VOLUME	DIA.	HEIGHT	
PET-1	DHW SYSTEM	-	-	-	-	-	(1) (2)

**PLUMBING EXPANSION TANK SCHEDULE NOTES:**

- ① BASED ON AMTROL ASME THERM-X-TROL
- ② STANDARD 40 PSIG FACTORY PRECHARGE

**GREASE INTERCEPTOR SCHEDULE**

TAG	TYPE	MODEL #	INTERMITTENT FLOW (GPM)	GREASE CAPACITY (LBS)	NOTES
GT-1	SURFACE MOUNTED	Z1171-700	35	70	(1)

**PLUMBING EXPANSION TANK SCHEDULE NOTES:**

- ① BASED ON ZURN

**OIL INTERCEPTOR SCHEDULE (PH2 DD)**

TAG	TYPE	MODEL #	INTERMITTENT FLOW (GPM)	GREASE CAPACITY (LBS)	NOTES
OT-1	-	-	-	-	(1)

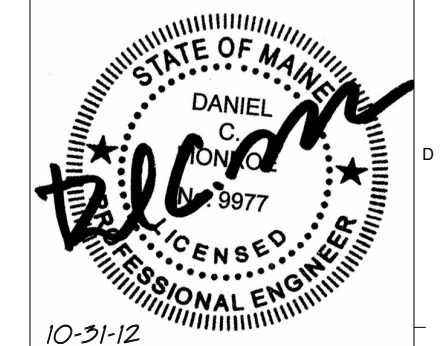
**PLUMBING EXPANSION TANK SCHEDULE NOTES:**

- ① BASED ON -

REV.	DESCRIPTION	DATE
0	NW ENTRY CONSTRUCTION DOCS	10-31-2012

**NW ENTRY CONSTRUCTION DOCUMENTS**  
**10-31-2012**

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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**

**PLUMBING SCHEDULES**

SHEET TITLE:  
WBRC CAD FILE: 375700 - 0000 Plumbing.rvt  
PROJECT No. **3757.00** GRAPHIC SCALE: 1" = 1'-0"  
SCALE: 1/4" = 1'-0"  
PROJECT MANAGER: JRB  
DRAWN BY: LAC  
CHECKED BY: DMON  
SHEET No. **P6.01**

10/31/2012 11:08:30 AM  
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**SINK COMBS DETHLEFS**

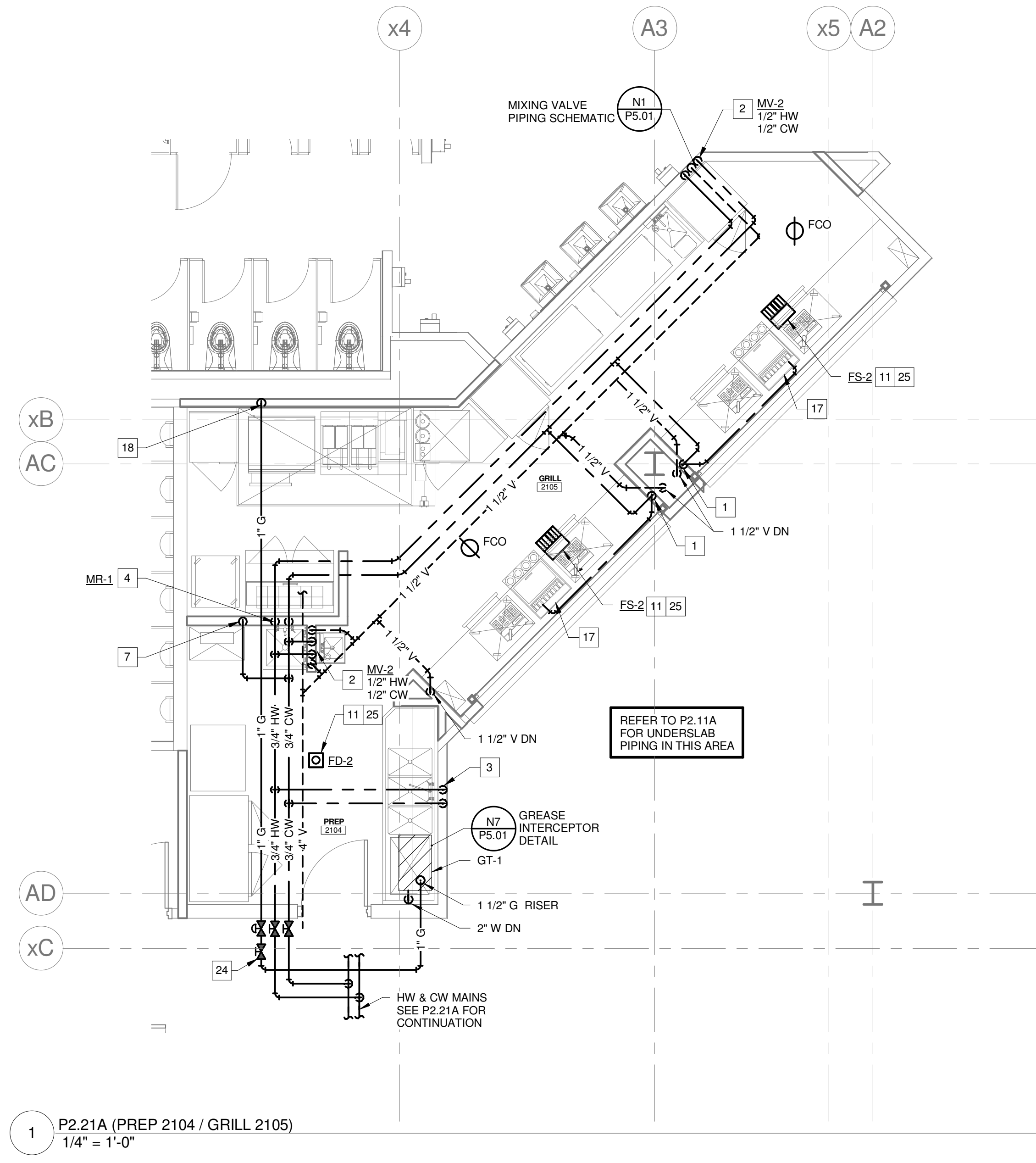
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Suite 100  
Denver, Colorado 80202  
303.336.0200  
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**GENERAL NOTES:**

- REFER TO PLUMBING FIXTURE CONNECTION SCHEDULE FOR PIPING SIZES TO INDIVIDUAL FIXTURES.
- INTERIOR UNDERSLAB PLUMBING PIPING, INVERTS INDICATED ARE FOR REFERENCE. CONTRACTOR SHALL FIELD VERIFY EXACT INVERTS, COORDINATE WALL PENETRATIONS, AND WITH STRUCTURAL FOOTINGS, AND ALL OTHER UNDERSLAB UTILITIES.
- BUILDING SANITARY SEWER SHALL BE RUN IN PRACTICAL ALIGNMENT AND AT UNIFORM SLOPE. BASIS OF DESIGN OF UNDERSLAB SANITARY SEWER PIPING IS 1/4" PER FOOT SLOPE.
- PROVIDE SHOCK ABSORBERS AT ALL CW BRANCHES TO FLUSH VALVES.
- PROVIDE SHOCK ABSORBERS AT ALL HW BRANCHES TO TOILET ROOMS W/ SENSOR FAUCETS.
- PROVIDE ISOLATION VALVES, CHECK VALVES, & DROPS SERVING KITCHEN EQUIPMENT.
- REFER TO FOOD SERVICE ROUGH-IN PLAN FOR FIXTURE ROUGH-IN & CONNECTIONS. PLUMBING CONTRACTOR TO VERIFY & COORDINATE ALL SIZES & CONNECTIONS WITH FOOD SERVICE PLANS & APPROVED FOOD SERVICE EQUIPMENT SHOP DRAWINGS.

**CONNECTION NOTES:**

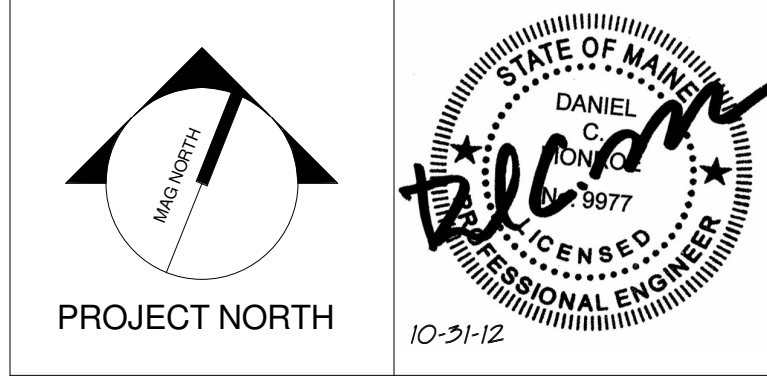
- 1/2" CW DROP IN WALL, CONNECT TO SODA DISPENSERS (FURNISHED BY DIV. 11)
- 1/2" 140F HW & CW DROP IN WALL, 1-1/2" DIRECT WASTE, 2" WASTE DN IN WALL, 1-1/2" V UP IN WALL, CONNECT TO HAND SINK (FURNISHED BY DIV. 11) WITH FAUCET & INTERIOR THERMOSTATIC MIXING VALVE).
- 3/4" 140F HW & CW DROP IN WALL, CONNECT TO SINK/FAUCET, CONNECT WITH 2" DIRECT WASTE TO GREASE TRAP, 1-1/2" V UP IN WALL (FURNISHED BY DIV. 11).
- 3/4" 140F HW & 3/4" CW DROP IN WALL, CONNECT TO MOP RECEPTOR MR-1, 3" DIRECT WASTE & 2" V UP IN WALL.
- CONNECT TO COOLER EVAPORATOR, WITH 1" INDIRECT WASTE, ROUTE TO MR-1, TERMINATE WITH AIR GAP.
- 1/2" CW DROP IN WALL, 1" INDIRECT WASTE, CONNECT TO COFFEE BREWER, (FURNISHED BY DIV. 11) ROUTE TO FS-1, TERMINATE WITH AIR GAP.
- 1/2" CW DROP IN WALL, CONNECT TO SODA DISPENSERS (FURNISHED BY DIV. 11)
- 1/2" 140F HW & CW DROP IN WALL, 1-1/2" INDIRECT WASTE, CONNECT TO SINK (FURNISHED BY DIV. 11)
- 1" G IN WALL, CONNECT TO FRYER (240MBH) WITH 1" LISTED FLEXIBLE GAS CONNECTOR & GRIDDLE (96 MBH) WITH 3/4" LISTED FLEXIBLE GAS PRESSURE REGULATOR 2 PSI INLET 11" W.C. OUTLET.
- CONNECT TO COOLER EVAPORATOR, WITH 1" INDIRECT WASTE, ROUTE TO FS-1, TERMINATE WITH AIR GAP.
- PROVIDE TRAP PRIMER TO EACH FS & FD.
- 1/2" CW DROP IN WALL, 1" INDIRECT WASTE, CONNECT TO ICE MAKER (FURNISHED BY DIV. 11) ROUTE TO FS-1, TERMINATE WITH AIR GAP.
- CONNECT DROP IN HOT FOOD WELL (FURNISHED BY DIV. 11) WITH 1" INDIRECT WASTE, ROUTE TO FS-1, TERMINATE WITH AIR GAP.
- 1/2" 140F HW & CW DROP IN WALL, 1" INDIRECT WASTE, CONNECT TO GLASS FILL FAUCET (FURNISHED BY DIV. 11) ROUTE TO FS-1, TERMINATE WITH AIR GAP.
- 1/2" 140F HW & CW DROP IN WALL, 1 1/2" INDIRECT WASTE, CONNECT TO WORK TABLE WITH SINK (FURNISHED BY DIV. 11) ROUTE TO FS-1, TERMINATE WITH AIR GAP.
- CONNECT TO BEER TOWER (FURNISHED BY DIV. 11) WITH INDIRECT WASTE, ROUTE TO FS-1, TERMINATE WITH AIR GAP.
- CONNECT TO SODA DISPENSER (FURNISHED BY DIV. 11) WITH 1" INDIRECT WASTE, ROUTE TO FS-1, TERMINATE W/ AIR GAP.
- 1" G IN WALL, CONNECT TO (1)GRIDDLE (96 MBH EACH) & (2) FRYER (100 MBH EACH), WITH LISTED FLEXIBLE GAS CONNECTOR, PROVIDE GAS PRESSURE REGULATOR 2 PSI INLET 11" W.C. OUTLET.
- CONNECT TO STORAGE CABINET (FURNISHED BY DIV. 11) WITH 1" INDIRECT WASTE, ROUTE TO FS-1, TERMINATE WITH AIR GAP.
- CONNECT TO COCKTAIL STATION (FURNISHED BY DIV. 11) WITH 1" INDIRECT WASTE, ROUTE TO FS-1, TERMINATE WITH AIR GAP.
- CONNECT TO BLENDER STATION WITH SINK (FURNISHED BY DIV. 11) 1/2" 140F HW & CW IN WALL, 1 1/2" INDIRECT WASTE, ROUTE TO FS-1, TERMINATE WITH AIR GAP.
- CONNECT KEG REFRIGERATOR (FURNISHED BY DIV. 11) WITH INDIRECT WASTE, ROUTE TO FS-1, TERMINATE WITH AIR GAP.
- 3/4" HW & 3/4" CW DN, RUN PIPING IN LOW WALL AND CONNECT TO FIXTURES AS NOTED.
- 3/4" ISOLATION VALVE, PRESSURE REGULATOR 2 PSIG INLET, 11" W.C. OUTLET 308 MBH CONNECTED LOAD, INCREASE TO 1" SIZE DOWNSTREAM OF PRESSURE REGULATOR, 1" MECHANICAL GAS VALVE.
- TRAP PRIMER FED FROM ELECTRONIC TRAP PRIMER LOCATED IN JANITOR 2103.



A	B
D	C

REV.	DESCRIPTION	DATE
0	NW ENTRY CONSTRUCTION DOCS	10-31-2012

**NW ENTRY CONSTRUCTION DOCUMENTS**  
10-31-2012  
CURRENT ISSUE STATUS:



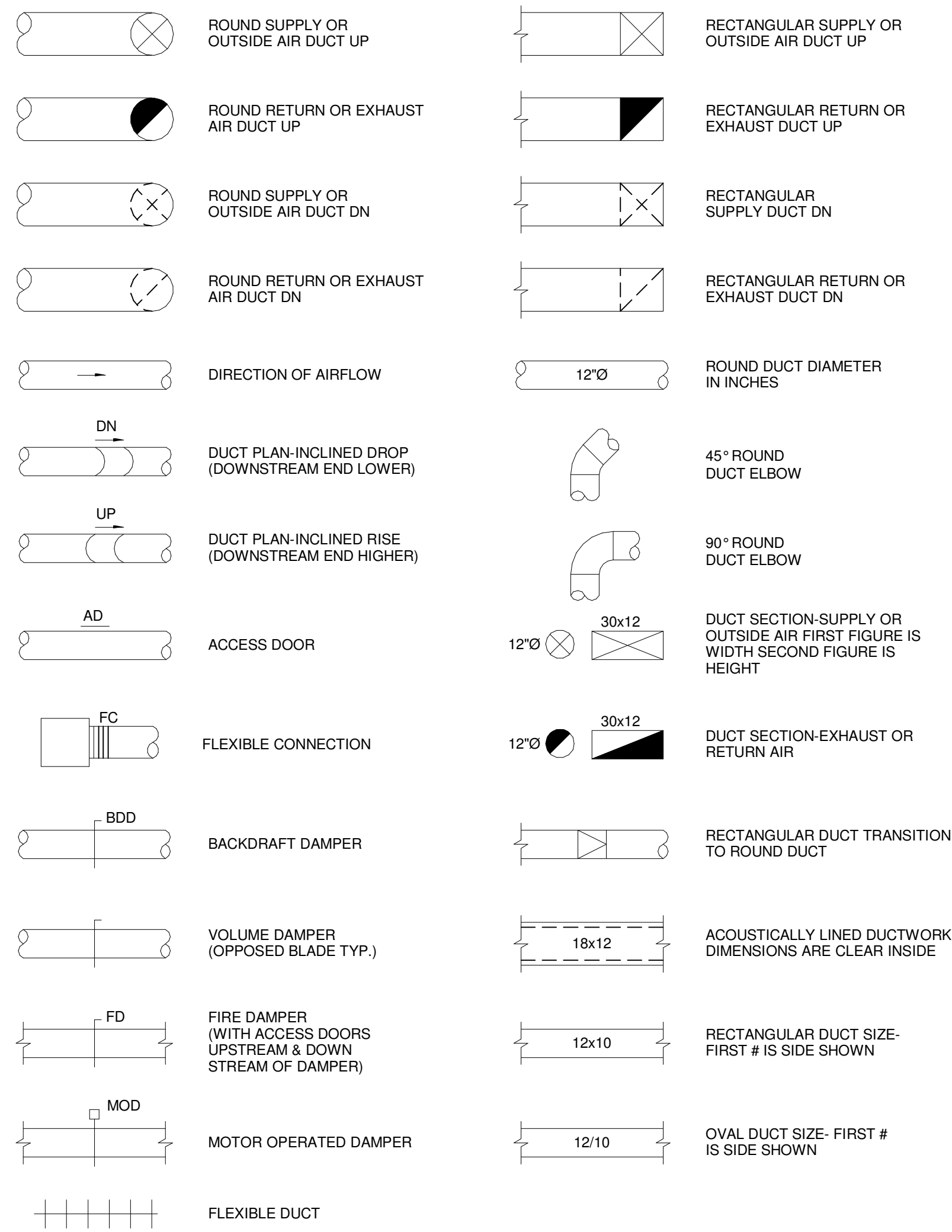
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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**  
PROJECT: PORTLAND, ME  
**ENLARGED CONCESSIONS PLUMBING PLANS**

SHEET TITLE:	WBRC CAD FILE: 375700 - 0202 Plumbing.dwg
PROJECT No.:	3757.00
SCALE:	1/4" = 1'-0"
PROJECT MANAGER:	JRB
DRAWN BY:	LAC
CHECKED BY:	DMON
SHEET No.:	<b>PFS.1.0</b>

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**DUCTWORK STANDARDS**



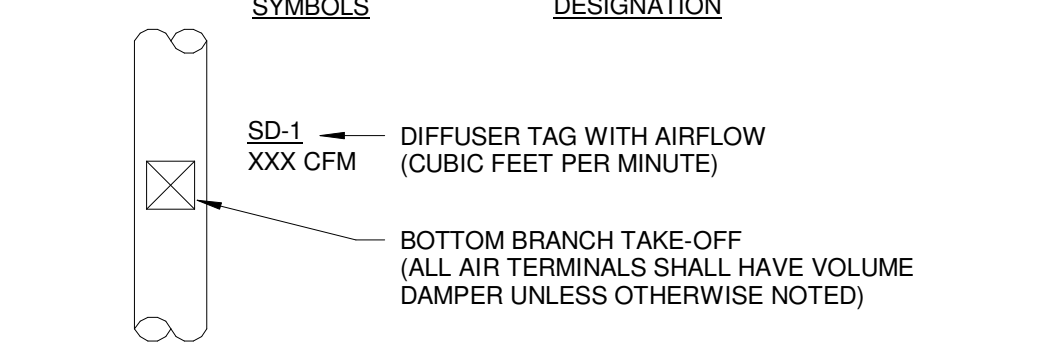
**PIPING SERVICE LEGEND**

PIPING LINE DESIGNATIONS		SERVICE DESIGNATION	
NEW	DESCRIPTION	EXISTING TO REMAIN	EXISTING TO BE REMOVED
—HWS—	HOT WATER SUPPLY	—EHWS—	—EHWS—
---HWR---	HOT WATER RETURN	---EHWR---	---EHWR---
—CWS—	CHILLED WATER SUPPLY	—ECWS—	—ECWS—
---CWR---	CHILLED WATER RETURN	---ECWR---	---ECWR---
—L—	A.C. REF. LIQUID	—EL—	—EL—
—S—	A.C. REF. SUCTION (VAPOR)	—ES—	—ES—
—BRS—	BRINE SUPPLY	—EBRS—	—EBRS—
---BRR---	BRINE RETURN	---EBRR---	---EBRR---
—CHWS—	COOLING/HEATING WATER SUPPLY	—ECHWS—	—ECHWS—
---CHWR---	COOLING/HEATING WATER RETURN	---ECHWR---	---ECHWR---

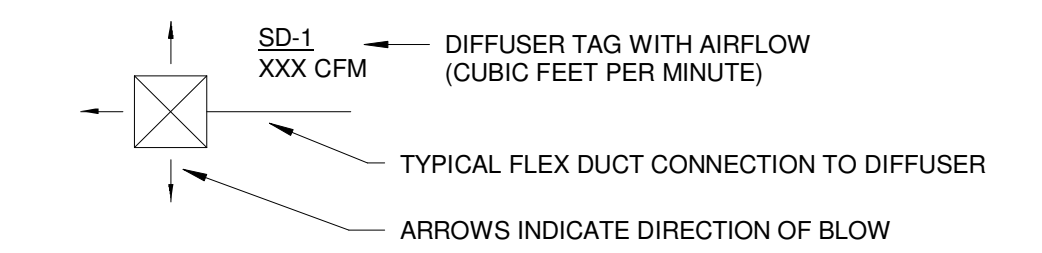
**GRILLE, REGISTERS, DIFFUSERS & AIRFLOW**

ABBREV.	DESIGNATION	ABBREV.	DESIGNATION
EG	EXHAUST GRILLE	EA	EXHAUST AIR
RD	RETURN DIFFUSER	OA	OUTDOOR AIR
RG	RETURN GRILLE	RA	RETURN AIR
RR	RETURN REGISTER	RLA	RELIEF AIR
SD	SUPPLY DIFFUSER	SA	SUPPLY AIR
LSD	LINEAR SUPPLY DIFFUSER		
SG	SUPPLY GRILLE		
TD	TRANSFER DIFFUSER		
TG	TRANSFER GRILLE		
TR	TRANSFER REGISTER		
VD	VOLUME DAMPER		

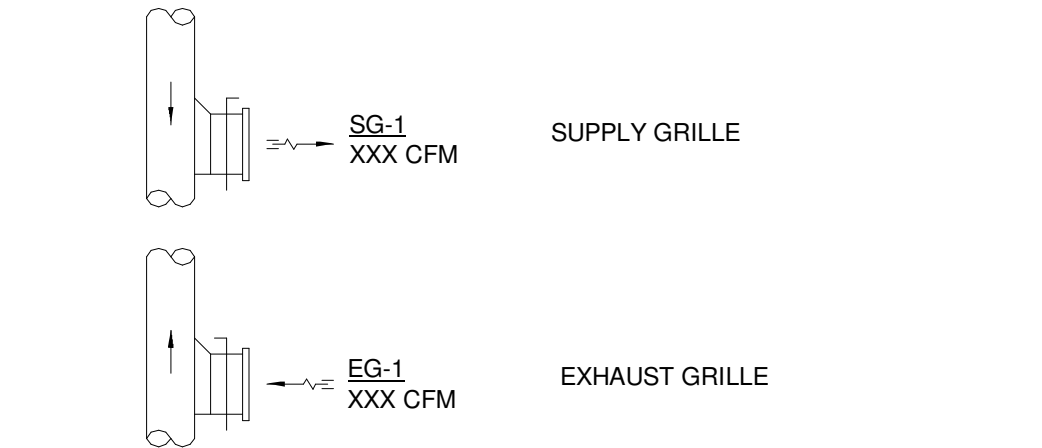
**TYPICAL BOTTOM OF DUCT DIFFUSER DROP**



**TYPICAL CEILING DIFFUSER**



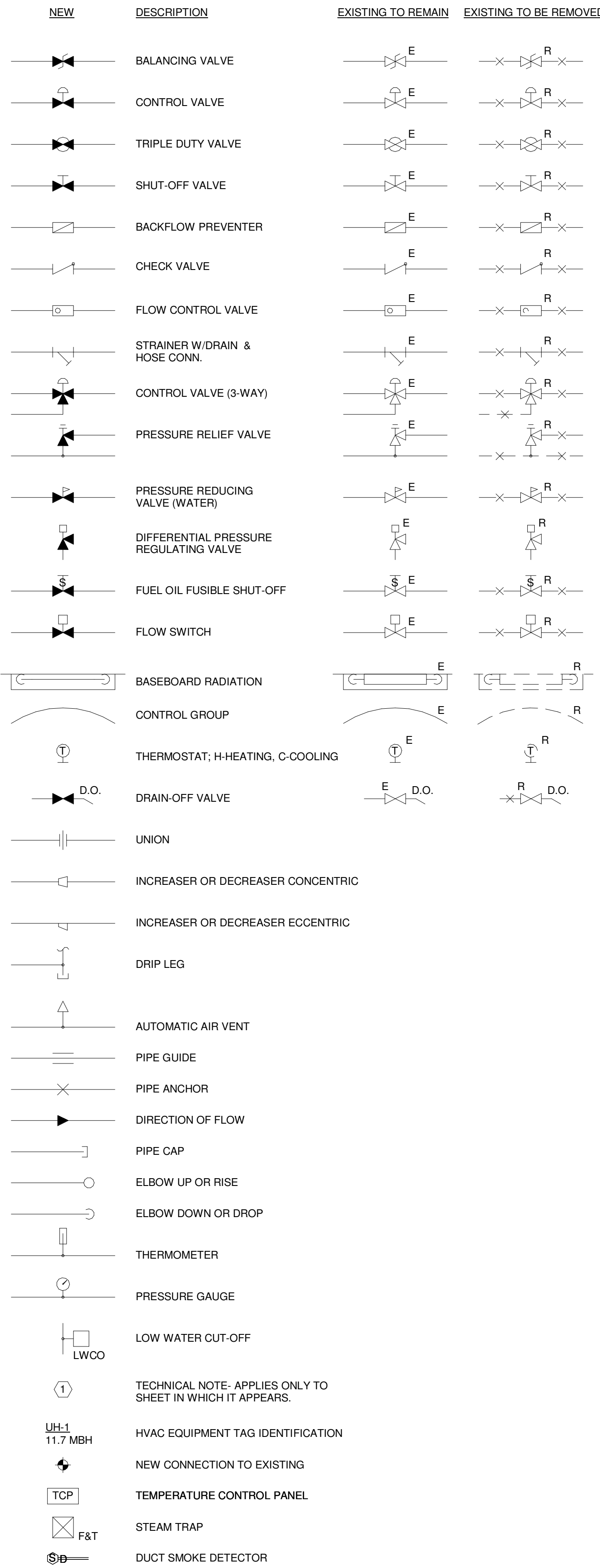
**TYPICAL REGISTER/GRILLE**



**EQUIPMENT TAG LEGEND**

TAG	DESIGNATION
ACCU-1	AIR COOLED CONDENSING UNIT DESIGNATION
AHU-1	AIR HANDLING UNIT DESIGNATION
AS-1	AIR SERPERATOR DESIGNATION
B-1	BOILER DESIGNATION
BPD-1	BYPASS DAMPER DESIGNATION
BT-1	BRINE TANK DESIGNATION
CH-1	CHILLER UNIT DESIGNATION
CONV-1	CONVECTOR UNIT DESIGNATION
CU-1	CONDENSING UNIT DESIGNATION
CUH-1	CABINET UNIT HEATER DESIGNATION
DS-1	DUCT SILENCER DESIGNATION
EE-1	EXHAUST FAN DESIGNATION
EVU-1	EVAPORATOR UNIT DESIGNATION
FC-1	FAN COIL DESIGNATION
FTB-1	FINNED TUBE RADIATION DESIGNATION
HC-1	HEATING COIL DESIGNATION
HE-1	HEAT EXCHANGER DESIGNATION
HRU-1	HEAT RECOVERY UNIT DESIGNATION
HR-1	HEATING RECOVERY BOX DESIGNATION
IE-1	INDOOR EVAPORATOR DESIGNATION
P-1	PUMP DESIGNATION
RF-1	RETURN FAN DESIGNATION
SEF-1	SMOKE EXHAUST FAN DESIGNATION
SE-1	SUPPLY FAN DESIGNATION
TSH-1	TOE SPACE HEATER DESIGNATION
UH-1	UNIT HEATER DESIGNATION
UV-1	UNIT VENTILATOR DESIGNATION
VAV-1	VARIABLE AIR VOLUME BOX DESIGNATION
XT-1	EXPANSION TANK DESIGNATION
ZD-1	ZONE DAMPER DESIGNATION

**HEATING AND VENTING SYMBOLS**



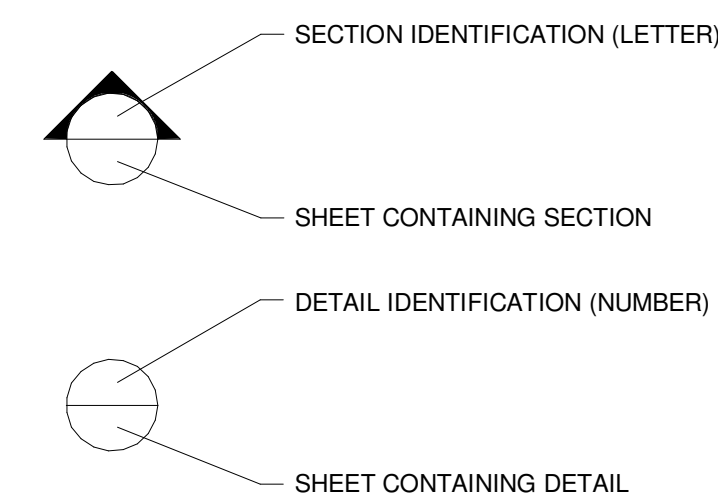
**MISCELLANEOUS ABBREVIATIONS**

ABBREV.	DESIGNATION
A	ANCHOR
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
APD	AIR PRESSURE DROP
AWT	AVERAGE WATER TEMPERATURE
BD	BAROMETRIC DAMPER
BDD	BACKDRAFT DAMPER
BOS	BOTTOM OF STEEL
BTU	BRITISH THERMAL UNITS
BV	BRICK VENT
CD	COOLING CONDENSATE DRAINAGE
CFM	CUBIC FEET PER MINUTE
D	DRAIN
DB	DRY BULB
EAT	ENTERING AIR TEMP.
ECC	ECCENTRIC
EL	ELEVATION
EWT	ENTERING WATER TEMPERATURE
FA	FRESH AIR
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HWBB	HOT WATER BASEBOARD
HZ	HERTZ
LAT	LEAVING AIR TEMP.
LF	LINEAL FEET
LRA	LOCKED ROTOR AMPS
LWCO	LOW WATER CUT-OFF
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MD	MANUAL DAMPER
MIN	MINIMUM
MOD	MOTOR OPERATED DAMPER
MV	MANUAL VENT
N.C.	NORMALLY CLOSED
OA	OUTSIDE AIR
OSV	OIL SAFETY VALVE
PD	PRESSURE DROP
RIC	RUN IN COVER
RPM	REVOLUTIONS PER MINUTE
SP	STATIC PRESSURE
TOS	TOP OF STEEL
TV	TURNING VANES
TYP.	TYPICAL
V	VENT
VD	VOLUME DAMPER
W	WITH
WB	WET BULB
ZD	ZONE DAMPER
E	EXISTING TO REMAIN
ER	EXISTING RELOCATED
NR	NEW TO REPLACE EXISTING IN EXISTING LOCATION
R	EXISTING TO BE REMOVED
RR	REMOVE & RELOCATE EXISTING

**GENERAL NOTES**

- ALL NEW SPACE THERMOSTATS SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR (AFF).
- EQUIPMENT, DUCTWORK AND PIPING LOCATIONS SHOWN ARE APPROXIMATE EXCEPT WHERE DIMENSIONED. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR TO AVOID INTERFERENCES.
- FLEXIBLE CONNECTIONS SHALL BE PROVIDED BETWEEN MOTORIZED UNITS AND DUCTWORK CONNECTIONS.
- PROVIDE ACCESS DOORS IN EQUIPMENT AND DUCTWORK FOR ACCESS TO DAMPERS, MOTORS, FILTERS, FANS AND ON BOTH SIDES OF HEATING COILS.
- PIPING SHALL BE RUN AS DIRECT AS POSSIBLE, PARALLEL TO & FORMING RIGHT ANGLES TO THE LINES OF THE BUILDING, SUPPORTED FROM THE STRUCTURE, FREE FROM POCKETS & SAGS & FITTED TO LOW POINT DRAINS.
- LOCATE ALL VALVES FOR EASY ACCESS & OPERATION. DO NOT LOCATE VALVES W/STEMS BELOW HORIZONTAL.
- ALL EXTERIOR WALL PENETRATIONS SHALL BE SEALED WEATHERTIGHT.
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
- DUCTWORK SHALL BE COORDINATED TO PREVENT ANY INTERFERENCES W/ PLUMBING, PIPING, ELECTRICAL, STRUCTURAL, FIRE PROTECTION, ARCHITECTURAL AND OTHER WORK.
- ALL DUCT SIZES SHOWN ARE CLEAR INTERNAL DIMENSIONS.
- CONTRACTOR TO FIELD VERIFY ALL EXISTING DUCT SIZES, PIPE SIZES, LOCATIONS, ETC. INCLUDING LOCATIONS & ARRANGEMENTS OF SAME. COORDINATE NEW WORK WITH EXISTING CONDITIONS.

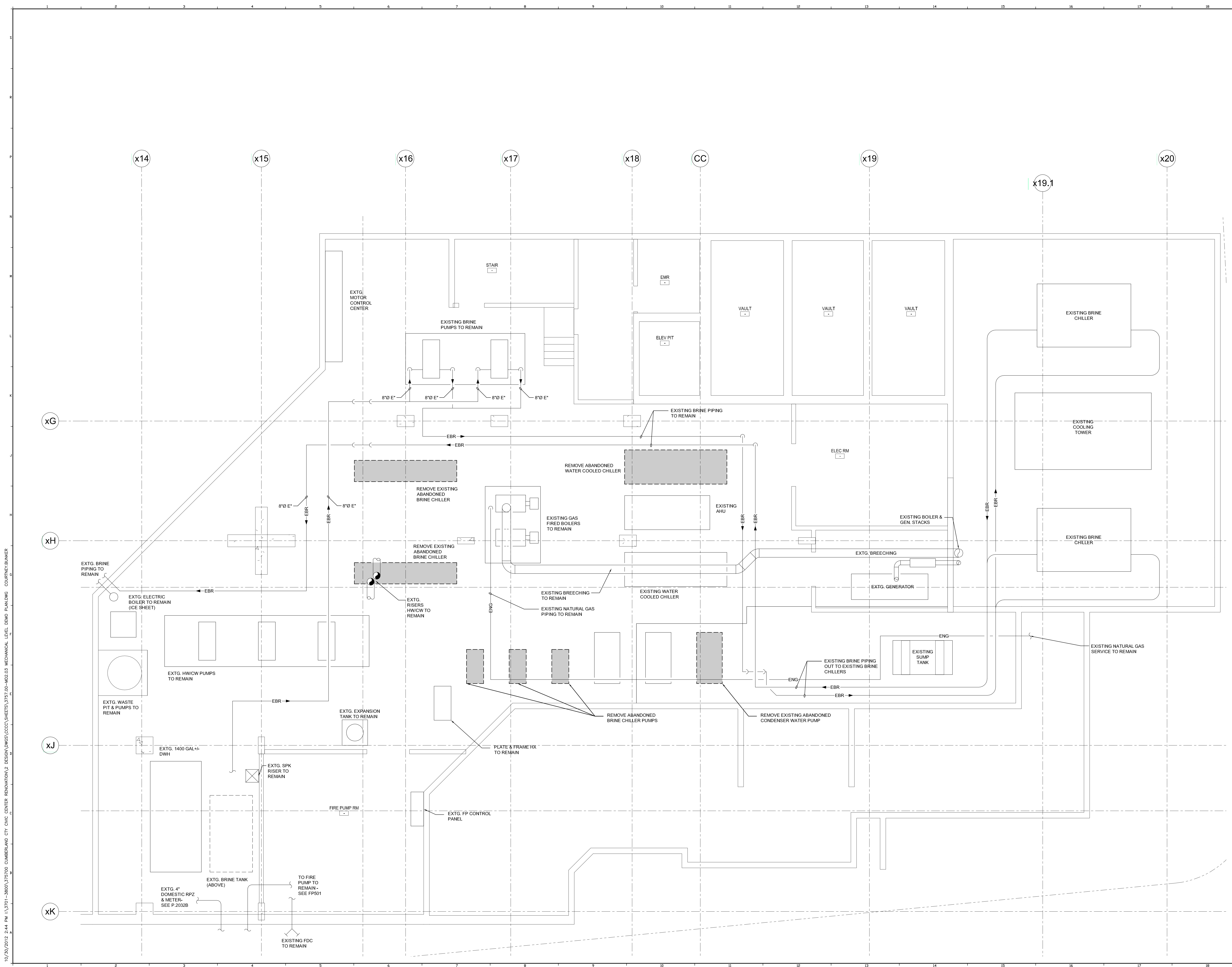
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PROJECT NORTH

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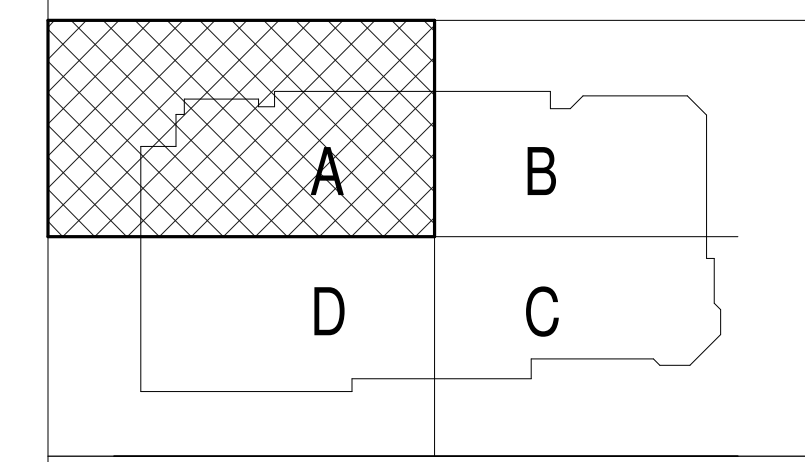
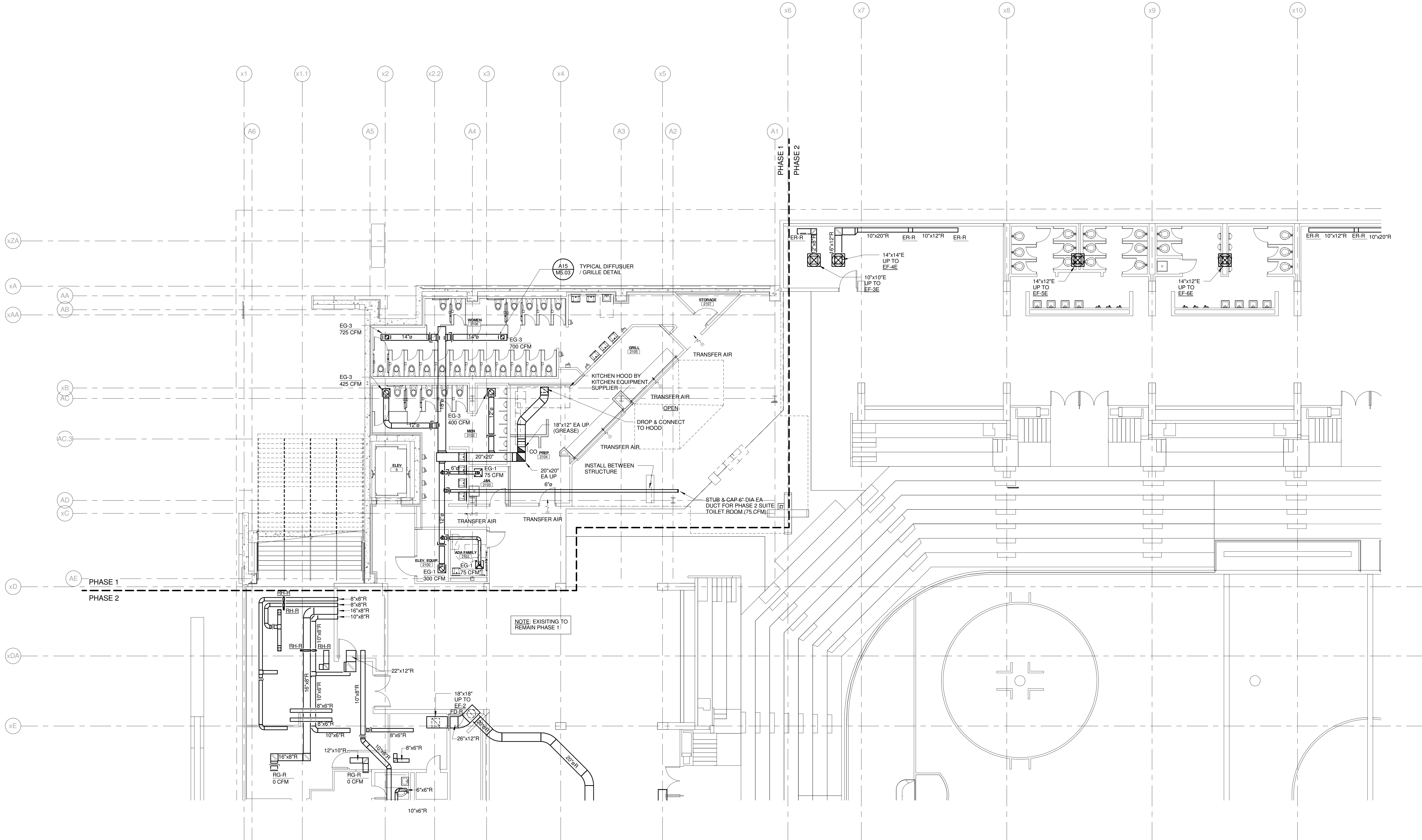
CUMBERLAND COUNTY CIVIC CENTER RENOVATION  
PROJECT: PORTLAND, ME  
MECHANICAL LEVEL MECHANICAL REMOVALS PLAN PHASE 1

SHEET TITLE:  
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PROJECT No: 3757.00 GRAPHIC SCALE: 0'  
SCALE: 1/4" = 1'-0"  
PROJECT MANAGER: JRB  
DRAWN BY: CGB  
CHECKED BY: DMON  
SHEET No: MD2.03A

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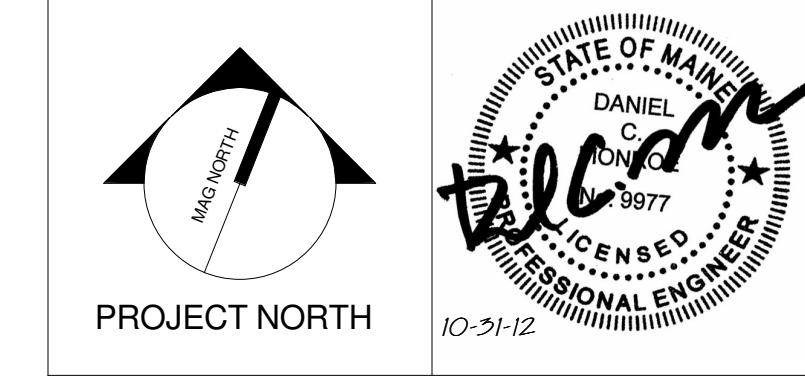
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PROJECT: PORTLAND, ME

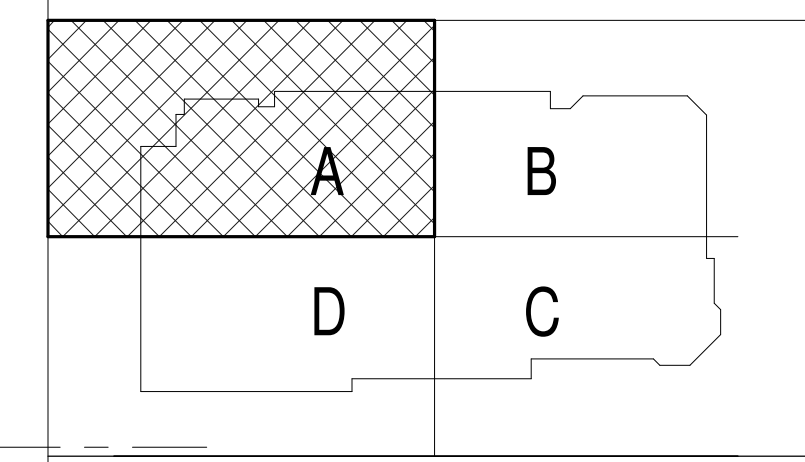
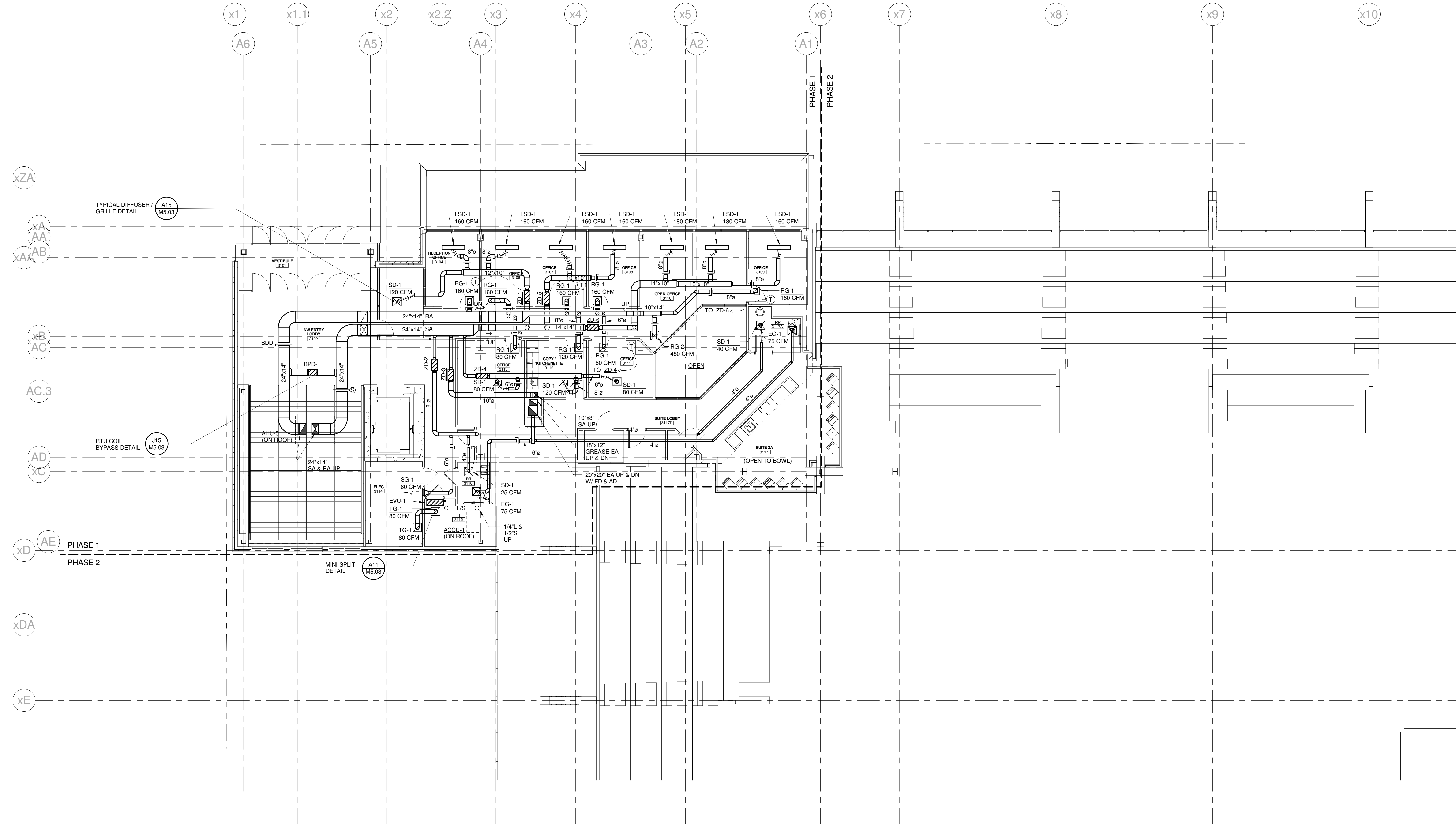
CONCOURSE LEVEL  
MECHANICAL PLAN - QUAD A  
PHASE 1

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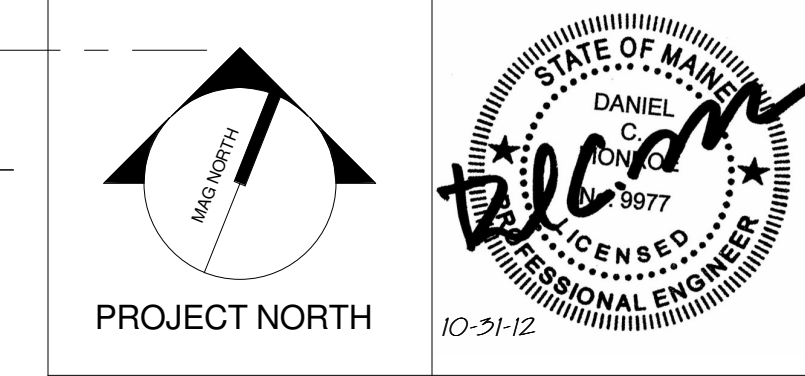
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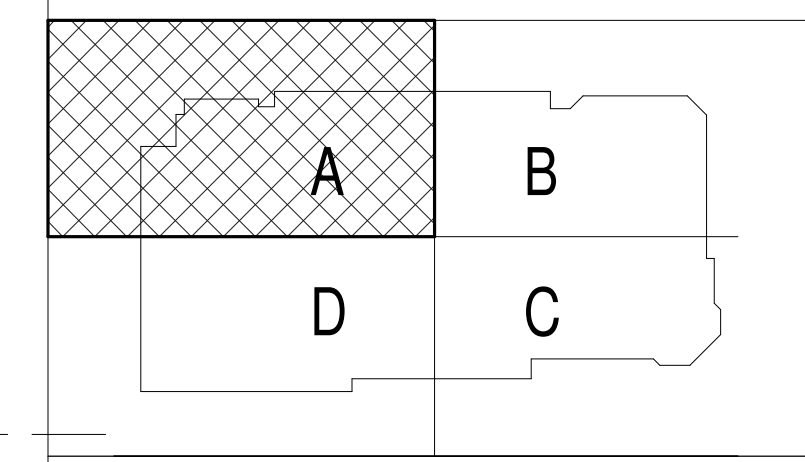
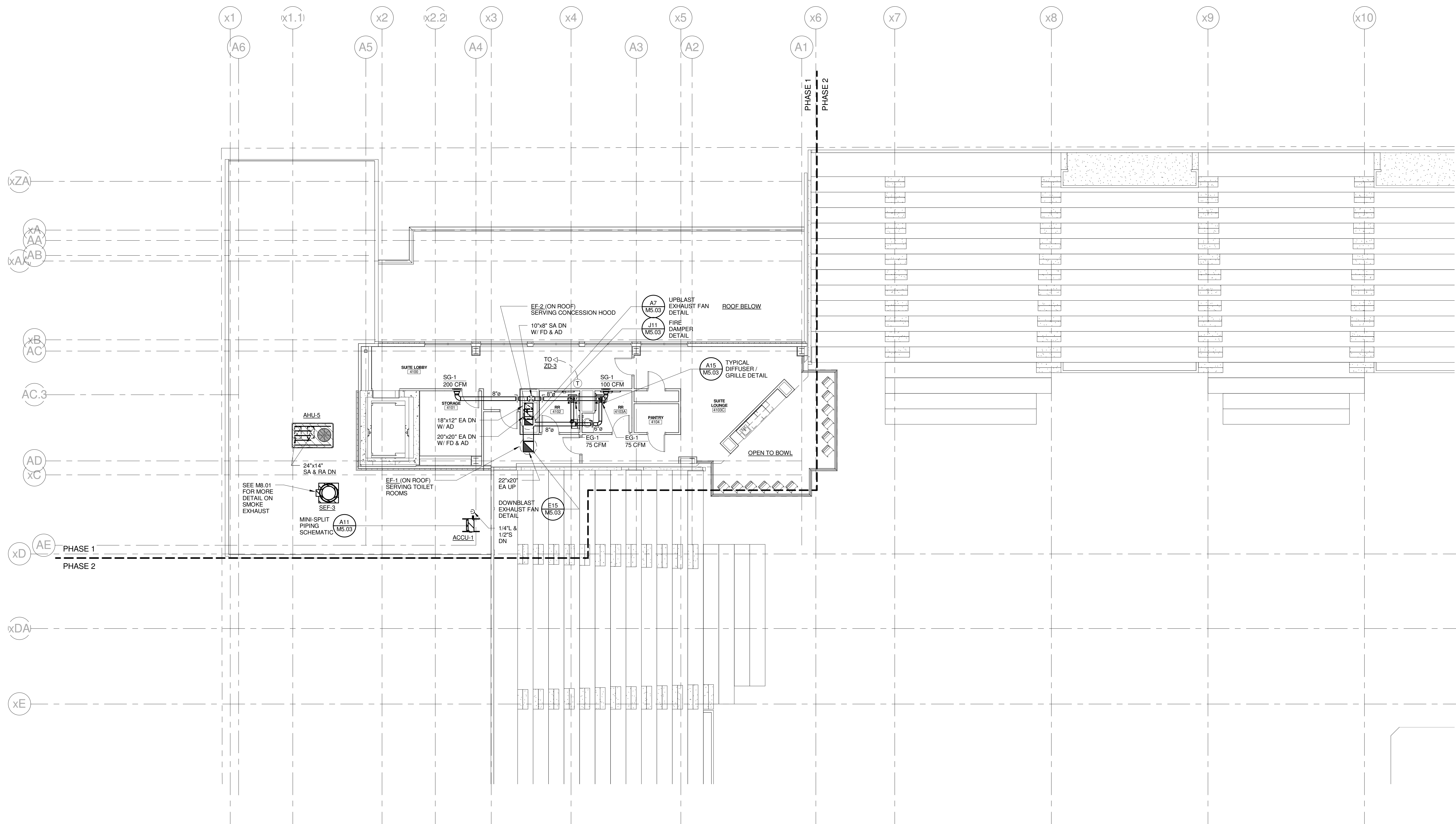
CUMBERLAND COUNTY CIVIC CENTER RENOVATION  
PROJECT: PORTLAND, ME

MIDSUITES LEVEL  
MECHANICAL LEVEL - QUAD A  
PHASE 1

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PROJECT: PORTLAND, ME

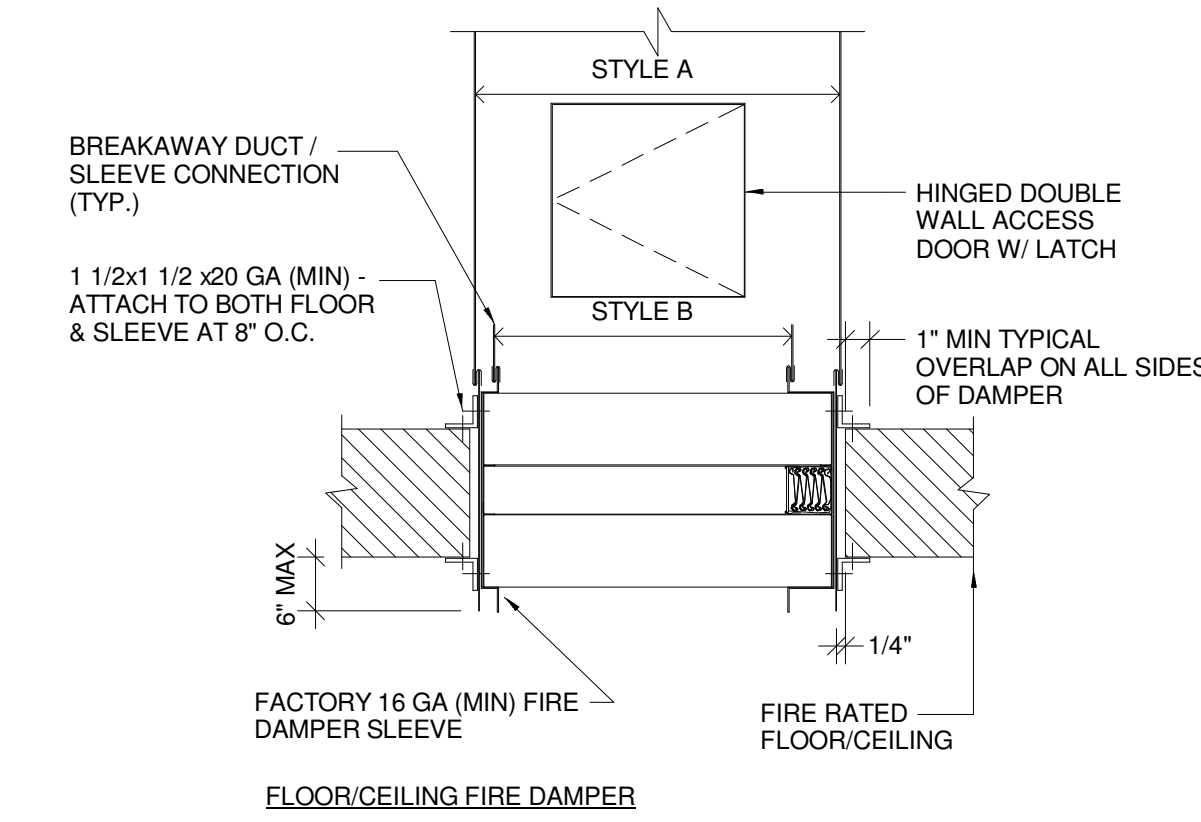
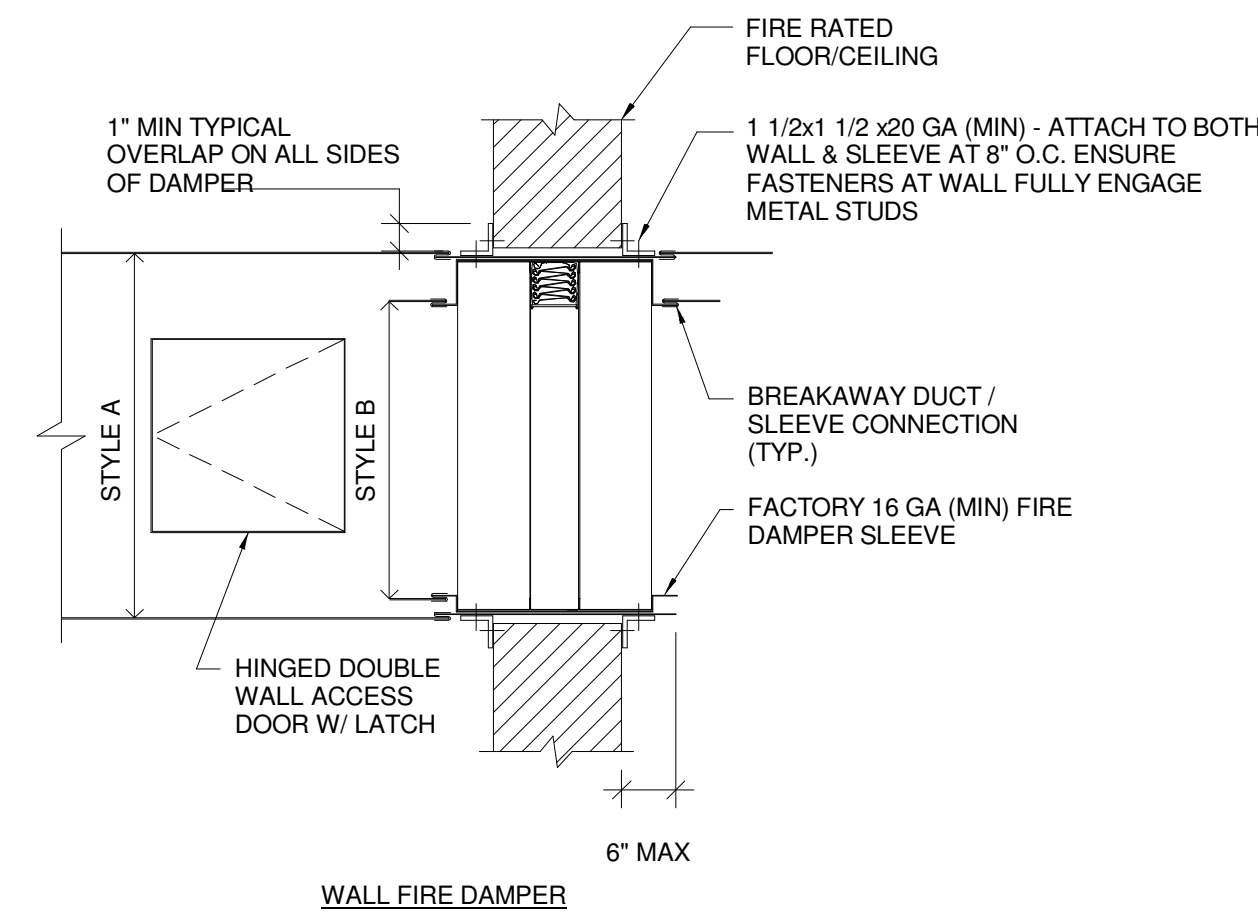
**UPPER SUITES LEVEL  
MECHANICAL PLAN - QUAD A  
PHASE 1**

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DRAWN BY: CGB  
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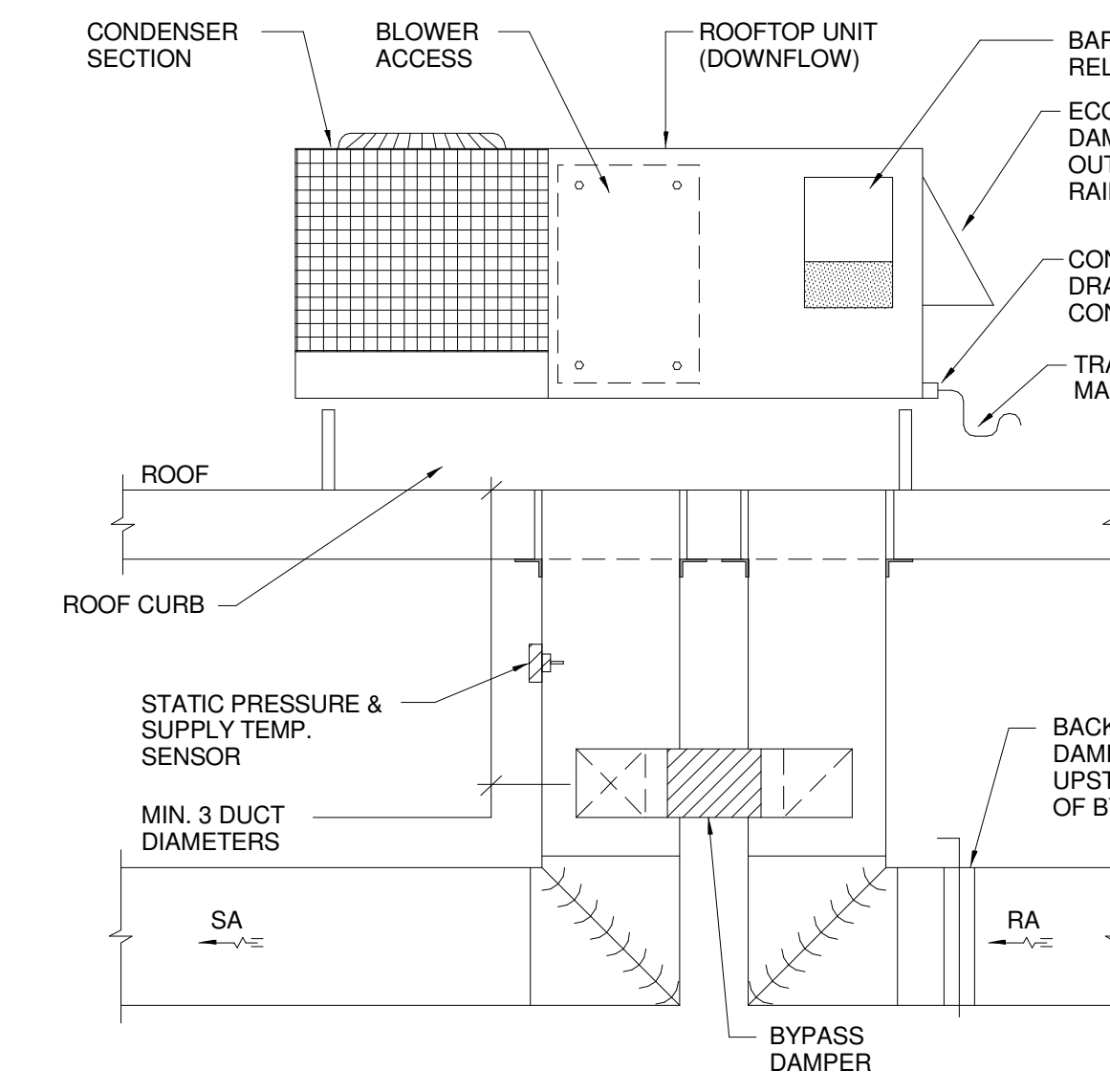
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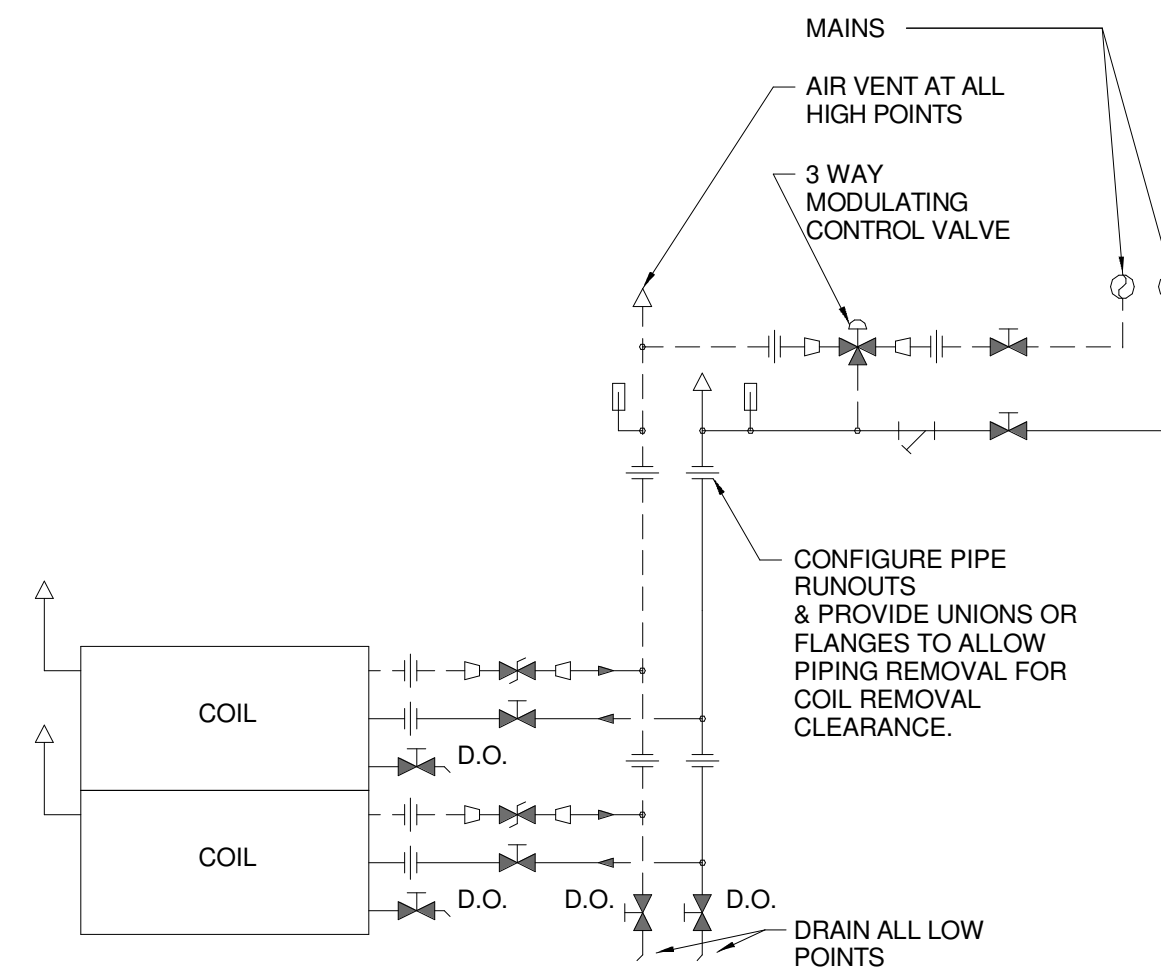
**FIRE DAMPER NOTES:**

1. MAKE OPENING 1/8" PER FOOT LARGER THAN DAMPER DIMENSIONS WITH 1/4" MIN. REGD.
2. DAMPER CONSTRUCTED AND TEST PER UL 555, UL LABELED, 1-1/2 HOUR FIRE RATING W/ 165 DEG. F FUSIBLE LINK
3. SEAL BETWEEN WALL AND SLEEVE W/ APPROVED FIRE STOP MATERIAL
4. REFER TO FIRE DAMPER INSTALLATION INSTRUCTION FOR SPECIFIC INSTALLATION REQUIREMENTS
5. FIRE DAMPERS SHALL BE TYPE "B" W/ CURTAIN OUT OF AIRSTREAM UNLESS OTHERWISE NOTED
6. TEST & INSPECT FIRE DAMPER FOR PROPER OPERATION & RESTORE AFTER TESTING.
7. PROVIDE DUCT ACCESS DOOR AT FIRE DAMPER

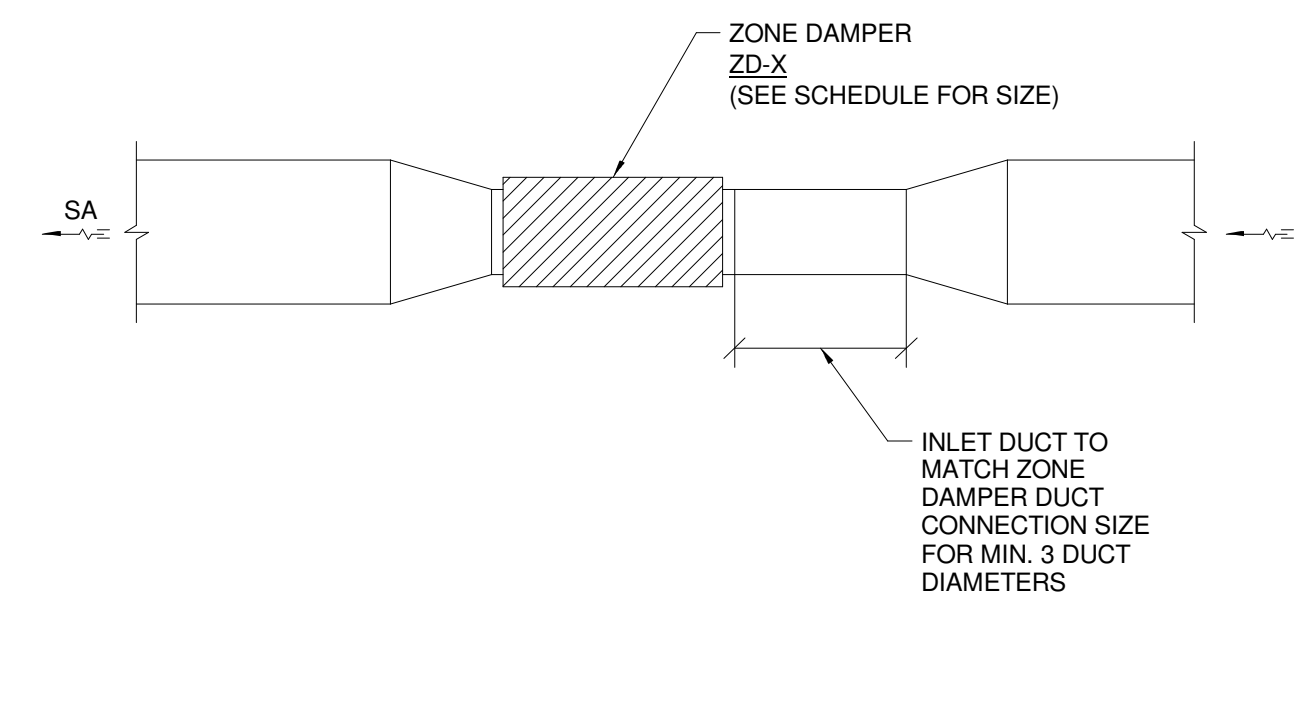
**J11 FIRE DAMPER DETAIL**  
NOT TO SCALE



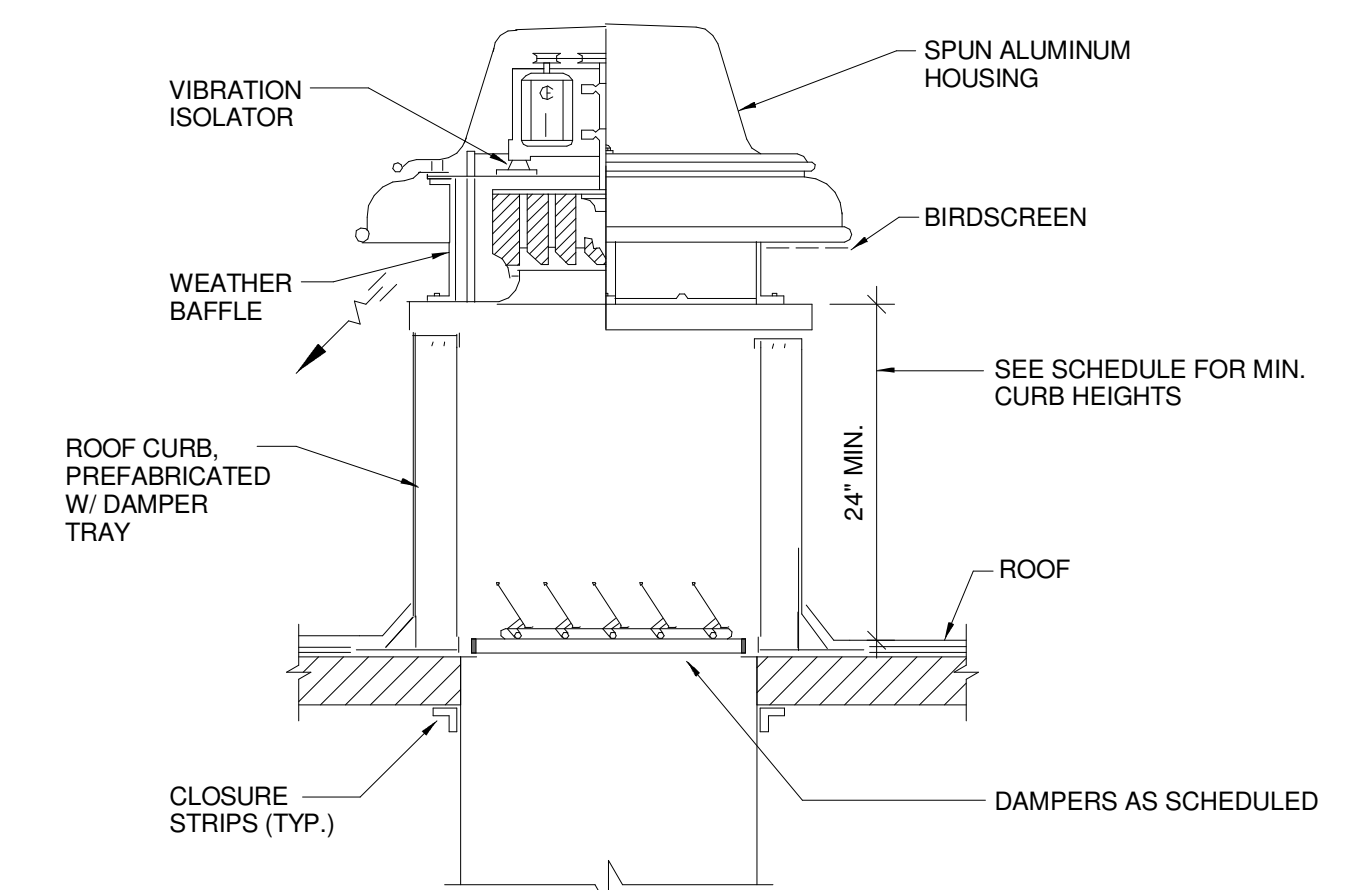
**J15 ROOFTOP UNIT BYPASS DETAIL**  
NOT TO SCALE



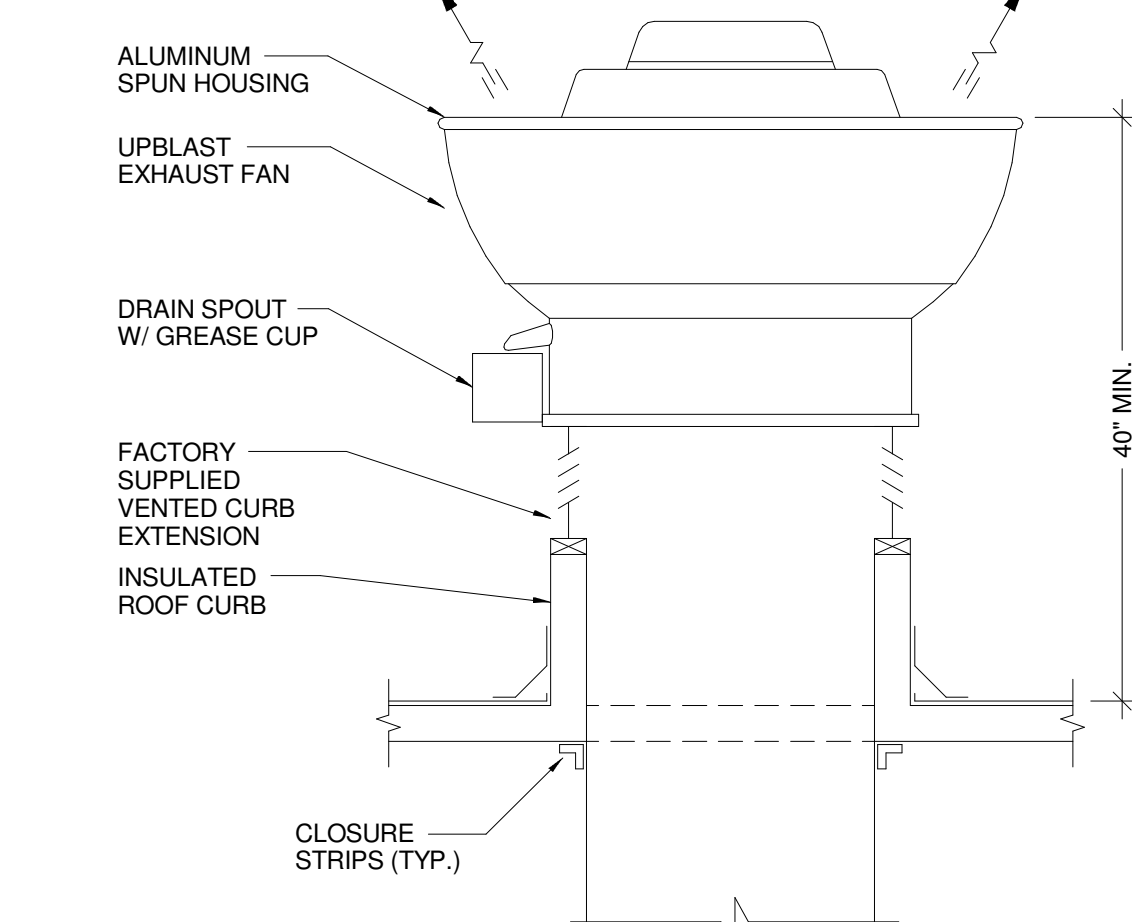
**E7 STACKED COIL PIPING SCHEMATIC (PH2 DD)**  
NOT TO SCALE



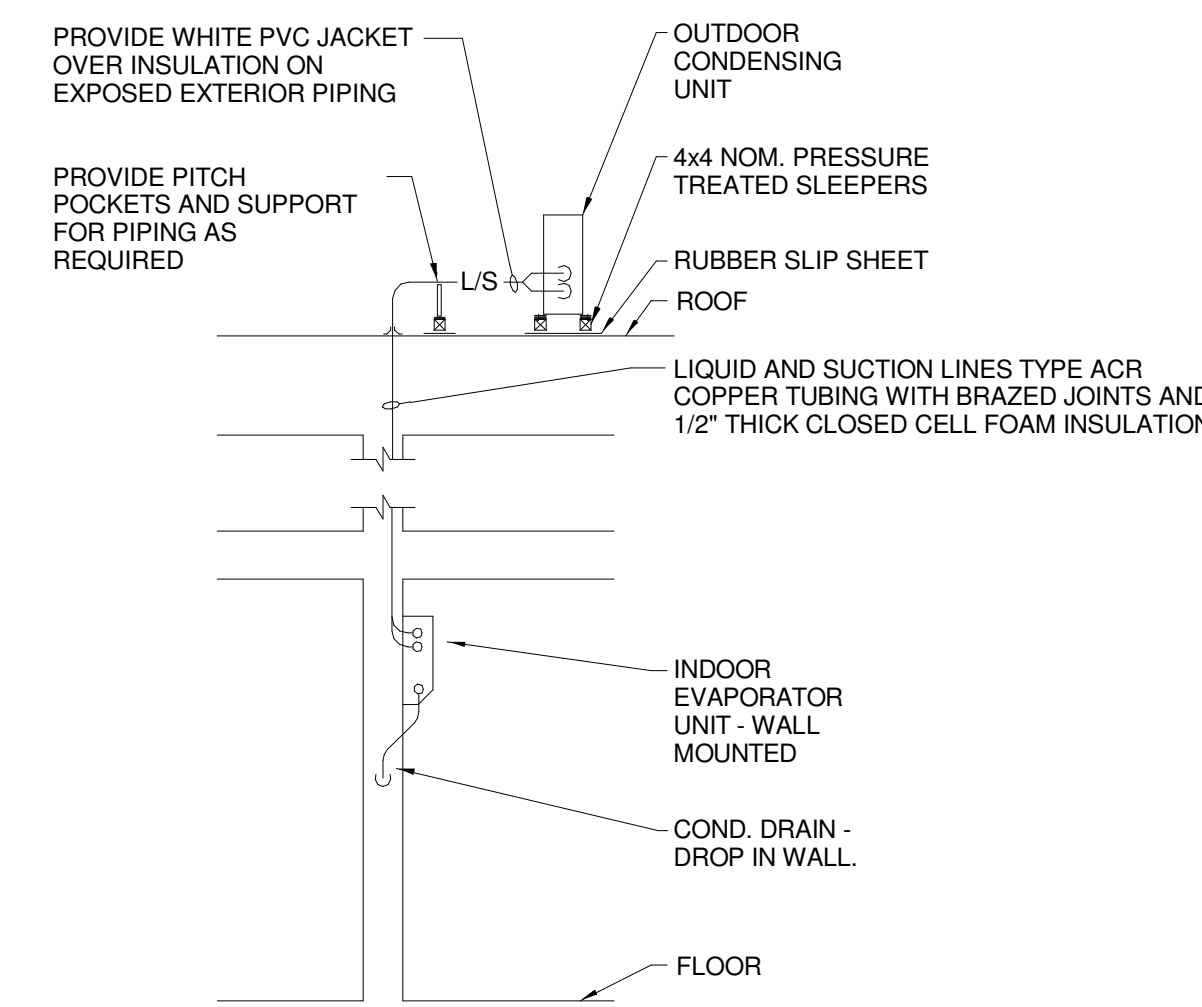
**E11 ZONE DAMPER DETAIL**  
NOT TO SCALE



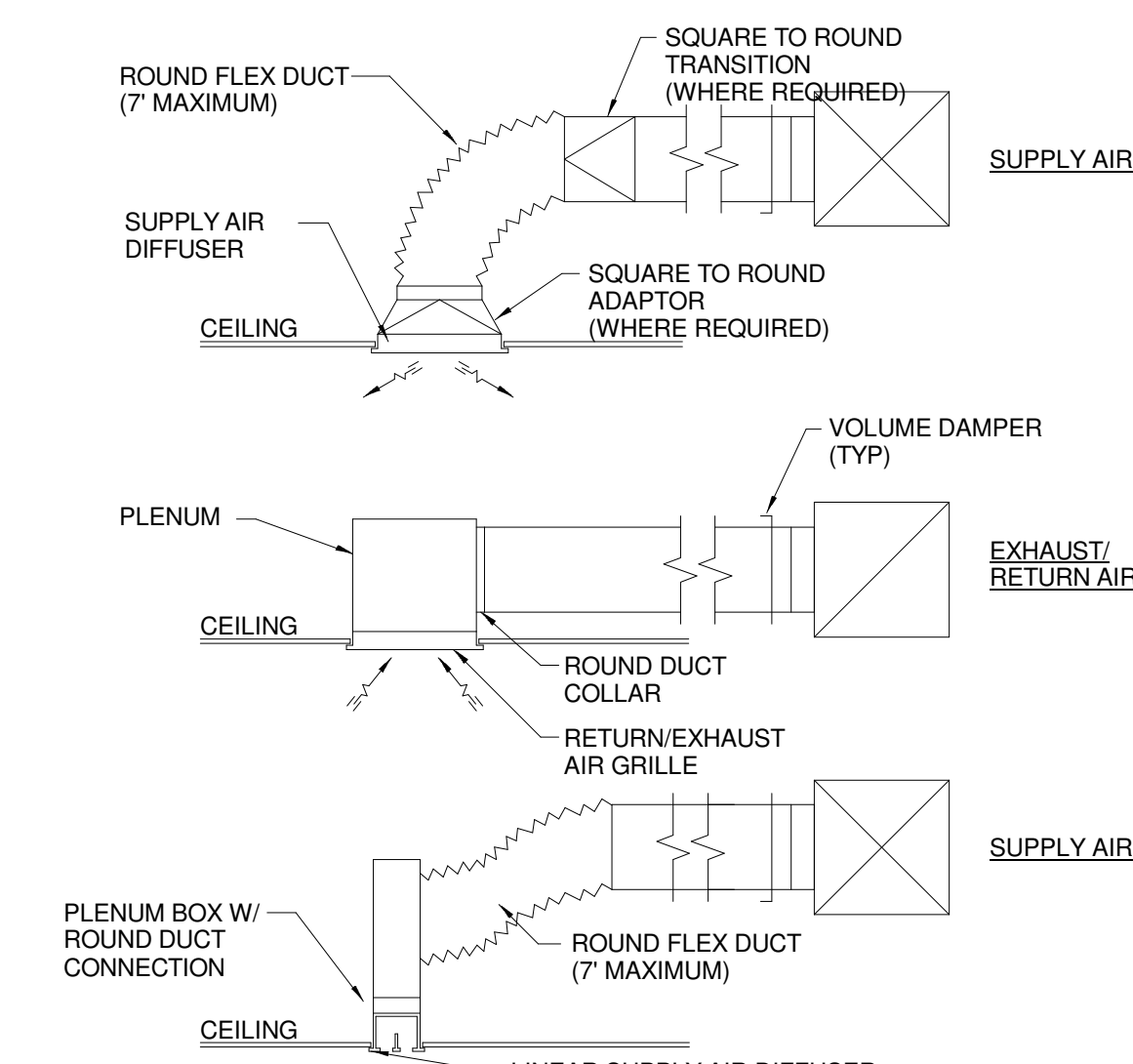
**E15 DOWNBLAST EXHAUST FAN DETAIL**  
NOT TO SCALE



**A7 UPBLAST EXHAUST FAN**  
NOT TO SCALE



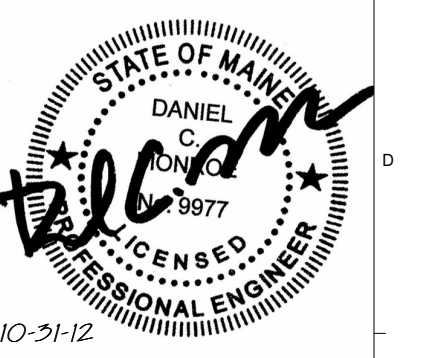
**A11 MINI-SPLIT PIPING SCHEMATIC**  
NOT TO SCALE



**A15 TYP. DIFFUSER GRILLE DETAIL**  
NOT TO SCALE

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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**

PROJECT: PORTLAND, ME  
**MECHANICAL DETAILS**

SHEET TITLE	WBRC CAD FILE: 375700 - 0002 Mechanical.rvt	GRAPHIC SCALE	1"
PROJECT No.	3757.00	SCALE	AS NOTED
PROJECT MANAGER	JRB	SHEET No.	M5.03
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### LOUVER SCHEDULE (PH2 DD)

UNIT	SERVICE	SIZE (W x H)	MODEL #	TYPE	SQ. FT. FREE AREA	CFM	FPM	APD	NOTES
L-1	-	-	ELF6375DX	DRAINABLE	-	-	-	-	(1) (2) (3)
L-2	-	-	ELF6375DX	DRAINABLE	-	-	-	-	(1) (2) (3)
L-3	-	-	ELF6375DX	DRAINABLE	-	-	-	-	(1) (2) (3) (4)
L-4	-	-	ELF6375DX	DRAINABLE	-	-	-	-	(1) (2) (3) (4)
L-5	-	-	ELF6375DX	DRAINABLE	-	-	-	-	(1) (2) (3) (4)
L-6	-	-	ELF6375DX	DRAINABLE	-	-	-	-	(1) (2) (5)

- LOUVER SCHEDULE NOTES:**  
 ① BASED ON RUSKIN  
 ② COLOR/FINISH AS SELECTED BY ARCHITECT  
 ③ BRD SCREEN

### VRF AIR CONDITIONING UNIT SCHEDULE (PH2 DD)

TAG	SERVING	O.A. CFM	TOTAL CFM	INDOOR EVAPORATOR UNIT						NOTES	
				MODEL NO.	CLG. COND F (DB/WB)	TMBH	SMBH	ELEC. CHARACTERISTICS	WEIGHT (LBS)		
IE-1-1	-	-	-	-	80/67	-	-	-	-	-	(1) (2) (3) (4) (5) (6)
IE-1-2	-	-	-	-	80/67	-	-	-	-	-	(1) (2) (3) (4) (5) (6)
IE-1-3	-	-	-	-	80/67	-	-	-	-	-	(1) (2) (3) (4) (5) (6)
IE-1-4	-	-	-	-	80/67	-	-	-	-	-	(1) (2) (3) (4) (5)
IE-1-5	-	-	-	-	80/67	-	-	-	-	-	(1) (2) (3) (4) (5)
IE-1-6	-	-	-	-	80/67	-	-	-	-	-	(1) (2) (3) (4) (5)
IE-1-7	-	-	-	-	80/67	-	-	-	-	-	(1) (2) (3) (4) (5)
IE-1-8	-	-	-	-	80/67	-	-	-	-	-	(1) (2) (3) (4) (5)
IE-1-9	-	-	-	-	80/67	-	-	-	-	-	(1) (2) (3) (4) (5)
IE-2-1	-	-	-	-	80/67	-	-	-	-	-	(1) (2) (3) (4) (5)
IE-2-2	-	-	-	-	80/67	-	-	-	-	-	(1) (2) (3) (4) (5)
IE-2-3	-	-	-	-	80/67	-	-	-	-	-	(1) (2) (3) (4) (5)
IE-2-4	-	-	-	-	80/67	-	-	-	-	-	(1) (2) (3) (4) (5)

- DUCTED AIR CONDITIONER SCHEDULE NOTES:**  
 ① BASED ON LG  
 ② BASED ON HIGH FAN SPEED  
 ③ CEILING RECESSED CASSETTE UNIT  
 ④ INTEGRAL CONDENSATE PUMP KIT  
 ⑤ R-410A REFRIGERANT  
 ⑥ OUTSIDE AIR DUCTING KIT

### SMOKE EXHAUST FAN SCHEDULE (PH2 DD)

UNIT	AREA(S) SERVED	MODEL	CFM	ESP	MOTOR HP	BRAKE HP	VOLTS/∅	FAN RPM	NOTES
SEF-1	BOWL	72-TUBSC	75,000	0.20	20.0	16.8	460/3/60	524	(1) (2) (3) (4) (5)
SEF-2	BOWL	72-TUBSC	75,000	0.20	20.0	16.8	460/3/60	524	(1) (2) (3) (4) (5)
SEF-3	NW ENTRY STAIR	36-TUBSC	10,000	0.20	2.0	1.7	460/3/60	1046	(1) (2) (3) (4) (5)
SEF-4	WEST LOBBY	54-TUBSC	50,000	0.20	15.0	12.8	460/3/60	777	(1) (2) (3) (4) (5)
SEF-5	CONCOURSE	42-TIB	30,000	0.20	10.0	6.95	460/3/60	965	(1) (3) (4) (5) (6)
SEF-6	CONCOURSE	42-TIB	30,000	0.20	10.0	6.95	460/3/60	965	(1) (3) (4) (5) (6)
SEF-7	CONCOURSE	42-TIB	30,000	0.20	10.0	6.95	460/3/60	965	(1) (3) (4) (5) (6)
SEF-8	CONCOURSE	42-TUBSC	30,000	0.20	10.0	8.38	460/3/60	1026	(1) (2) (3) (4) (5)

- EXHAUST FAN SCHEDULE NOTES:**  
 ① BASED ON LOREN COOK  
 ② 13-1/2" HIGH INSULATED ROOF CURB  
 ③ PREMIUM EFFICIENT TEFC MOTOR  
 ④ UL LISTED FOR SMOKE CONTROL  
 ⑤ BELT GUARD & MOTOR COVER  
 ⑥ CEILING LEGS AND SPRING ISOLATORS

### ZONE DAMPER SCHEDULE

UNIT	SERVED BY	AREAS SERVED	MODEL	MAX. CFM	DUCT SIZE DIA.	FPM	NOTES
ZD-1	AHU-5	RECEPTION / OFFICE	VADB-10-B	440	10"	827	(1)
ZD-2	AHU-5	TOILET ROOMS / ELEC	VADB-06-B	145	6"	771	(1)
ZD-3	AHU-5	UPPER SUITE LOBBY	VADB-08-B	300	8"	888	(1)
ZD-4	AHU-5	INTERIOR OFFICES	VADB-08-B	280	8"	828	(1)
ZD-5	AHU-5	EXTERIOR OFFICES	VADB-08-B	320	8"	947	(1)
ZD-6	AHU-5	EXTERIOR OFFICES	VADB-10-B	520	10"	977	(1)

- VARIABLE VOLUME BOX SCHEDULE NOTES:**  
 ① BASED ON TRANE VARITRAC

### AIR COOLED CONDENSING UNIT SCHEDULE (PH2 DD)

UNIT	SERVICE	MODEL #	NOM. TONS	COIL AREA SQ. FT.	ROWS	FPI	MBH	AMB. TEMP.	EER
CU-1	SE OFFICE VRF	-	-	-	-	-	-	-	-
CU-2	ICE SUITES & FLEX	-	-	-	-	-	-	-	-
CU-3	LOBBY & TICKETS	-	-	-	-	-	-	-	-

FANS				COMPRESSORS				REFRIG.
UNIT	QTY	CFM	HP	FLA	RLA	TYPE	QTY	
CU-1	-	-	-	-	-	-	-	-
CU-2	-	-	-	-	-	-	-	-
CU-3	-	-	-	-	-	-	-	-

ELECTRICAL			WEIGHT LBS		PIPING CONNECTIONS		NOTES
UNIT	POWER	MCA	MAX FUSE	LIQUID	SUCTION		
CU-1	208/1/60	-	-	-	-	(1) (2) (4) (5)	
CU-2	208/1/60	-	-	-	-	(1) (2) (4) (5)	
CU-3	-	-	-	-	-	-	

- AIR COOLED CONDENSING UNIT SCHEDULE NOTES:**  
 ① BASED ON LG  
 ② THERMAL EXPANSION VALVE KIT  
 ③ TIME DELAY RELAY KIT  
 ④ DISCONNECT SWITCH W/ SINGLE POINT POWER  
 ⑤ CENTRAL CONTROLLER FOR VRF SYSTEM

### BYPASS DAMPER SCHEDULE

TAG	SERVES	CFM	MODEL	DUCT SIZE DIA.	FPM	NOTES
BPD-1	AHU-5	1600	VARB-14-A	14"	1497	(1) (2)

- BYPASS DAMPER SCHEDULE NOTES:**  
 ① BASED ON TRANE VARITRAC  
 ② CFM BASED ON 80% OF RTU AIRFLOW

### AIR SEPARATOR SCHEDULE (PH2 DD)

TAG	SERVES	MODEL	GPM	SIZE	DIA	HEIGHT	WEIGHT	NOTES
AS-1	C/HW LOOP	-	1400	10"	-	-	-	(1)

- AIR SEPARATOR SCHEDULE NOTES:**  
 ① BASED ON TACO

### BOILER SCHEDULE (PH2 DD)

UNIT	MODEL	PROPANE INPUT (MBH)	NET I-B-R (MBH)	AHRI EFFICIENCY (%)	POWER	NOTES
B-1	FBN2000	2000	1600	92	120/1/60	(1) (2) (3) (4)
B-2	FBN2000	2000	1600	92	120/1/60	(1) (2) (3) (4)
B-3	FBN2000	2000	1600	92	120/1/60	(1) (2) (3) (4)

- BOILER SCHEDULE NOTES:**  
 ① BASED ON COCHINVAR CREST  
 ② CONDENSATE NEUTRALIZATION KIT  
 ③ STAINLESS STEEL COMMON VENT KIT  
 ④ SEALED COMBUSTION

### ROOFTOP UNIT SCHEDULE

UNIT	NOMINAL COOLING TONS	INDOOR FAN PERFORMANCE					MIN O.A. CFM	VOLTS/PH/∅	ELECTRICAL			MCA	MFS	SERVES	
		CFM	ESP	BHP	MOTOR HP	DRIVE			COMPRESSOR QTY	INDOOR FAN FLA	COND. FAN FLA				
AHU-5	5	2005	1.22	1.0	1.0	BELT	300	460/3/60	1	7.1/	2.5/16.1	1.0/	12.3	20	QUAD 'A' OFFICES
AHU-6	8 1/2	3100	0.95	1.27	-	DIRECT	400	460/3/60	2	9.6/5.1	4.3	1.5/	22.9	30	CLUB ROOM
AHU-7	15	3400	-	-	-	-	3400	460/3/60	-	-	-	-	-	-	HOME LOCKERS
AHU-8	N/A	3300	-	-	-	-	-	460/3/60	-	-	-	-	-	-	VISITOR LOCKERS
AHU-9	25	10000	0.95	8.2	-	-	700	460/3/60	2	21.1/21.1	11.0	(2) @ 2.0/	56	70	QUAD 'C' LOBBY

### ENERGY RECOVERY PEAK HEATING PERFORMANCE

UNIT	ENERGY RECOVERY TYPE	S.P. *WC	WHEEL DIA.	ENTERING CONDITIONS				LEAVING CONDITIONS				TOTAL ENERGY RECOVERED MBH	EFF. TOTAL %	ENERGY RECOVERY ELEC.			
				OUTSIDE AIR DB °F	WB °F	RETURN AIR DB °F	WB °F	SUPPLY AIR DB °F	WB °F	EXHAUST AIR DB °F	WB °F			POWER	MOTOR HP		
AHU-7	WHEEL	0.76	-	-3	-4	70	60	43	37	22	22	-	-	-	-	460/3/60	-
AHU-8	FIXED PLATE	-	-	-3	-4	70	60	-	-	-	-	-	-	-	-	460/3/60	-

### ENERGY RECOVERY PEAK COOLING PERFORMANCE

UNIT	ENERGY RECOVERY TYPE	S.P. *WC	WHEEL DIA.	ENTERING CONDITIONS				LEAVING CONDITIONS				TOTAL ENERGY RECOVERED MBH	EFF. TOTAL %
				OUTSIDE AIR DB °F	WB °F	RETURN AIR DB °F	WB °F	SUPPLY AIR DB °F	WB °F	EXHAUST AIR DB °F	WB °F		
AHU-7	WHEEL	-	-	88	71	75	65	78	64	82	67	-	-
AHU-8	FIXED PLATE	-	-	88	71	75	65	-	-	-	-	-	

### GAS HEAT PERFORMANCE

UNIT	INPUT (MBH)	OUTPUT (MBH)	EAT	TEMP. RISE	FUEL	AFLUE %	GAS CONN.	RECOMMENDED GAS PRESS.	BURNER MATERIAL	BURNER TYPE	BURNER SIZE
AHU-5	80	64	57	30	NATURAL GAS	79	1/2"	4.5-14.0 IN. WC	SS	INDIRECT	MEDIUM
AHU-6	120	59	36	36	NATURAL GAS	-	-	4.5-14.0 IN. WC	SS	INDIRECT	MEDIUM
AHU-7	250	200	43	55	NATURAL GAS	-	-	4.5-14.0 IN. WC	SS	INDIRECT	MEDIUM
AHU-8	-	-	-	-	-	-	-	-	-	-	-
AHU-9	400	324	63	30	NATURAL GAS	-	-	4.5-14.0 IN. WC	SS	INDIRECT	HIGH

### COOLING PERFORMANCE

UNIT	TOTAL CLG. CAP. (MBH)	SENSIBLE CLG. CAP. (MBH)	EER	SEER	POWER INPUT (KW)	O.A. TEMP. D.B.	EAT DEWB	REFRIG.	UNIT WEIGHT (LBS.)	MODEL	NOTES
AHU-5	61.0	45.8	12.8	15.0	4.67	95°F	80/67	R-410A	969	YHC060F4R	(1) (2) (3) (4) (5) (6) (8) (9) (10) (11) (12) (13) (14)
AHU-6	97.7	73.9	13.0	-	8.04	95°F	80/67	R-410A	1591	YHC102E4R	(1) (2) (3) (4) (5) (6) (8) (9) (10) (11) (12) (13) (14)
AHU-7	156.9	105.7	12.8	-	18.3	95°F	80/67	R-410A	3690	CAZ1820	(1) (2) (3) (4) (5) (7) (8) (9) (10) (11) (12) (13) (14)
AHU-8	-	-	-	-	-	-	-	-	-	HEARTV	(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15)
AHU-9	265	196	10.6	-	29.1	95°F	80/67	R-410A	2375	YHD300F4R	(1) (2) (3) (4) (5) (7) (8) (9) (10) (11) (12) (13) (14)

- ROOFTOP UNIT SCHEDULE:**  
 ① BASED ON TRANE  
 ② MOTORIZED ECONOMIZER W/ RAIN HOOD & COMPARATIVE ENTHALPY CONTROLS.  
 ③ 2" PLEATED MERV 8 FILTERS  
 ④ HINGED ACCESS DOORS  
 ⑤ PREMIUM EFFICIENCY INDOOR FAN MOTOR  
 ⑥ PROVIDE W/ STANDARD STATIC FAN PACKAGE  
 ⑦ PROVIDE W/ HIGH STATIC FAN PACKAGE  
 ⑧ PROVIDE W/ VERTICAL FURNACE FLUE EXTENSION  
 ⑨ PROVIDE W/ RETURN AIR DUCT MOUNTED CO2 SENSOR & DEMAND CONTROL VENTILATION CONTROLS.  
 ⑩ PROVIDE W/ TRANE COMMUNICATION INTERFACE BOARD FOR CONNECTION TO VARITRAC CENTRAL CONTROL PANEL.  
 ⑪ DEMAND CONTROL VENTILATION, ECONOMIZER CONTROL & SEER/EEER TO COMPLY W/ "EFFICIENCY MAINE" BUSINESS PROGRAM PRESCRIPTIVE CASH INCENTIVES.  
 ⑫ EXTERNAL STATIC PRESSURE INCLUDES ADDITIONAL PRESSURE DROP FROM ECONOMIZER AND AIR FILTERS. +0.27"  
 ⑬ UNIT MOUNTED, FACTORY WIRED DISCONNECT  
 ⑭ FACTORY WIRED, POWERED SERVICE RECEPTACLE

### FAN SCHEDULE

UNIT	AREA(S) SERVED	MODEL	CFM	ESP	MOTOR HP	BRAKE HP	VOLTS/∅	FAN RPM	NOTES
EF-1	NW ADDITION TOILETS	QB-200-7	3075	0.50	3/4	0.58	460/3/60	1100	(1) (2) (3) (4) (5) (6)
EF-2	NW ADDITION CONCESSION	CUBE-161-7	2250	0.75	3/4	0.55	120/1/60	1100	(1) (3) (5) (6) (7) (8) (9) (10)
EF-3	QUAD 'B' FRIES CONCESSION	CUBE-161-5	1750	0.75	1/2	0.4	120/1/60	994	(1) (5) (6) (7) (8) (9) (10)
EF-4	QUAD 'C' GRILLE	CUBE-200	4500	0.75	1 1/2	1.3	460/3/60	1000	(1) (3) (5) (6) (7) (8) (9) (10)
EF-5	QUAD 'D' GENERAL EXHAUST	10000	10000	-	-	-	460/3/60	-	(1) (2) (3) (4) (5) (6)
EF-6	QUAD 'C' TOILETS	CUBE-200-20	5125	0.75	2.0	1.8	460/3/60	1117	(1) (2) (3) (4) (5) (6)
EF-7	COMMISSARY GREASE	CUBE-300HP-50	6000	1.25	5.0	3.5	460/3/60	909	(1) (3) (5) (6) (7) (8) (9) (10)
EF-8	COMMISSARY CONDENSATE	CUE-101-A	750	1.00	1/3	0.2	460/3/60	1627	(1) (2) (4) (5) (6)
EF-9	QUAD 'D' GRILLE	CUBE-180	2750	0.75	3/4	0.7	460/3/60	1003	(1) (5) (6) (7) (8) (9) (10)
EF-10	QUAD 'D' TOILETS	G-123-A	1275	0.75	1/2	0.28	120/1/60	1416	(1) (2) (4) (5) (6)
EF-11	QUAD 'D' ICE SUITES TOILETS								

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**AIR HANDLING UNIT SCHEDULE**

SUPPLY FAN											
UNIT	SERVES	CFM	MIN. O.A. CFM	TSP IN. WC	ESP IN. WC	BHP	HP	POWER	TYPE	DIA.	RPM
AHU-1	BOWL	40000	10000	3.06	1.50	29.9	40.0	460/360	BELT/AF	40"	836
AHU-2	BOWL	40000	10000	3.06	1.50	29.9	40.0	460/360	BELT/AF	40"	836
AHU-3	BOWL	40000	10000	3.06	1.50	29.9	40.0	460/360	BELT/AF	40"	836
AHU-4	BOWL	40000	10000	3.06	1.50	29.9	40.0	460/360	BELT/AF	40"	836

HYDRONIC COIL (HEATING MODE)											
UNIT	AREA SQ. FT.	ROWS	FPF	EAT	LAT	EWI	LWT	GPM	WPD	APD IN. WC	MODEL
AHU-1	78.75	6	147	50	99	110	85	175	2.4	0.74	880 PRIMA FLO-H
AHU-2	78.75	6	147	50	99	110	85	175	2.4	0.74	880 PRIMA FLO-H
AHU-3	78.75	6	147	50	99	110	85	175	2.4	0.74	880 PRIMA FLO-H
AHU-4	78.75	6	147	50	99	110	85	175	2.4	0.74	880 PRIMA FLO-H

HYDRONIC COIL (COOLING MODE)											
UNIT	AREA SQ. FT.	ROWS	FPI	EAT	LAT	EWI	LWT	GPM	WPD	APD IN. WC	TOTAL MBH
AHU-1	78.75	6	147	77/64	49/48	41	51	350	9.5	0.91	1759 PRIMA FLO-H
AHU-2	78.75	6	147	77/64	49/48	41	51	350	9.5	0.91	1759 PRIMA FLO-H
AHU-3	78.75	6	147	77/64	49/48	41	51	350	9.5	0.91	1759 PRIMA FLO-H
AHU-4	78.75	6	147	77/64	49/48	41	51	350	9.5	0.91	1759 PRIMA FLO-H

PRE-FILTER											
UNIT	AREA SQ. FT.	LOCATION AIRSTREAM	FILTER EFF% & MERV RATING	MEAN APD IN. WC.	MODEL	CABINET SIZE (HxW)	UNIT WEIGHT (LBS.)	NOTES			
AHU-1	151.1	SUPPLY	30% MERV 8	0.56	CSAA-80	107.5"x140.5"	9070	① ② ③ ④ ⑤ ⑥ ⑦			
AHU-2	151.1	SUPPLY	30% MERV 8	0.56	CSAA-80	107.5"x140.5"	9070	① ② ③ ④ ⑤ ⑦			
AHU-3	151.1	SUPPLY	30% MERV 8	0.56	CSAA-80	107.5"x140.5"	9070	① ② ③ ④ ⑤ ⑦			
AHU-4	151.1	SUPPLY	30% MERV 8	0.56	CSAA-80	107.5"x140.5"	9070	① ② ③ ④ ⑤ ⑦			

**AIR HANDLING UNIT SCHEDULE NOTES:**

- ① BASED ON TRANE
- ② PROVIDE SUPPLY & EXHAUST FANS W/ 2" DEFLECTION SPRINGS.
- ③ PREMIUM EFFICIENCY INVERTER DUTY MOTOR COMPATIBLE W/ VARIABLE FREQUENCY DRIVE
- ④ 6" BASE RAILS

**GAS FIRED MAKE UP AIR UNIT SCHEDULE**

TAG	MODEL NO.	CONFIGURATION	VOLTS/∅	FAN PERFORMANCE				HEATING PERFORMANCE				WEIGHT (LBS.)	NOTES
				CFM	ESP	MOTOR HP	RPM	INPUT (MBH)	TEMP RISE °F	FUEL	BURNER TYPE		
MAU-1	IGX-115-H22	OUTDOOR/DOWNFLOW	460/3/60	4500	0.75	3.0	810	500	82	NG	INDIRECT	1677	① ② ③ ④ ⑤ ⑥

**MAKE UP AIR UNIT SCHEDULE NOTES:**

- ① BASED ON GREENHECK
- ② PREMIUM EFFICIENT TEFC, INVERTER DUTY MOTOR
- ③ WEATHER HOOD W/ BIRDSCREEN, V-BANK FILTER HOUSING, INSULATED, 2" FILTERS, MOTORIZED INLET DAMPER W/ ACTUATOR
- ④ GAS MANIFOLD 7"-14" WC, 4 STAGE FURNACE CONTROL DOWN TO 4:1 TURNDOWN
- ⑤ FACTORY INSTALLED WIRING PACKAGE FOR MODULATING ENERGY MANAGEMENT SYSTEM, SINGLE POINT POWER CONNECTION, SERVICE DISCONNECT SWITCH & VFD'S FOR SUPPLY FAN & 2 COMMISSARY EXHAUST FANS (EF-X & EF-X)
- ⑥ PROVIDE 24" HIGH INSULATED ROOF CURB

**AIR COOLED CHILLER SCHEDULE (PH2 DD)**

UNIT	MODEL #	NOMINAL TONS	CAPACITY TONS	AMB. TEMP.	REFRIG.	EER	IPLV
CH-1	RTAC300	300	292	95	R134A	10.0	14.4
CH-2	RTAC300	300	292	95	R134A	10.0	14.4

FANS											
UNIT	QTY	FAN DIA.	CFM	RLA	COMP. TYPE		# COMP.	COMP. TONS	RLA	LRA	REFRIG (LBS)
					CKT #1	CKT #2					
CH-1	20	30"	9605	3.0	CKT #1	SCREW	2	100/100	162/162	346/346	460
CH-2	20	30"	9605	3.0	CKT #2	SCREW	2	100/100	162/162	346/346	200

WATER SIDE									
UNIT	GPM	PD	LWT	EWT	EVAP. TYPE	FLUID	WATER CONNECTIONS		
							INLET	OUTLET	
CH-1	700	11.5	41	51	2-PASS	WATER			
CH-2	700	11.5	41	51	2-PASS	WATER			

ELECTRICAL							
UNIT	POWER	KW INPUT	MCA	MOP	WEIGHT LBS	SOUND PRESS. (dBA)	SOUND POWER (dBA)
CH-1	460/3/60	365	592	700	21700	72	100
CH-2	460/3/60	365	592	700	21700	72	100

**AIR COOLED CONDENSING UNIT SCHEDULE NOTES:**

- ① BASED ON TRANE
- ② PROVIDE HEAD PRESSURE CONTROL, WATER FLOW SWITCH, HOT GAS BYPASS, FACTORY MOUNTED STAND-ALONE DDC CONTROLS W/ DYNVIEW TOUCH SCREEN INTERFACE PANEL, LOWTALK INTERFACE, NEOPRENE VIBRATION ISOLATORS, FACTORY MOUNTED REFR. SHUT OFF VALVES, EVAPORATOR INLET STRAINER & EVAPORATOR INSULATION & FACTORY INSTALLED REFRIG. PIPING.
- ③ SINGLE POINT POWER, FACTORY MOUNTED DISCONNECT SWITCH & WYE-DELTA CLOSED TRANSITION STARTERS.
- ④ CHILLER NOT SERVED BY EMERGENCY POWER
- ⑤ EVAPORATOR HEATERS W/ THERMOSTATS (FIELD POWERED 120V CIRCUIT REQUIRED)
- ⑥ LOW NOISE FANS & COMPRESSORS

**PUMP SCHEDULE (PH2 DD)**

TAG	SERVES	MODEL	TYPE	GPM	HEAD FT/MOTOR HP	RPM	POWER	NOTES
P-1E	EXISTING BRINE PUMP	-	-	1000	-	30	460/360	
P-2E	EXISTING BRINE PUMP	-	-	1000	-	30	460/360	
P-3	BOILER B-1 INJECTION	-	INLINE	122	-	-	460/360	① ② ③
P-4	BOILER B-2 INJECTION	-	INLINE	122	-	-	460/360	① ② ③
P-5	BOILER B-3 INJECTION	-	INLINE	122	-	-	460/360	① ② ③
P-6	C-HW LOOP PRIMARY	-	FRAME	700	-	-	460/360	① ② ④
P-7	C-HW LOOP STANDBY	-	FRAME	700	-	-	460/360	① ② ④
P-8	C-HW LOOP STANDBY	-	FRAME	700	-	-	460/360	① ② ④
P-9	DOM. HW PRODUCTION	-	INLINE	-	-	-	460/360	①
P-10	DOM. HW PRODUCTION	-	INLINE	-	-	-	460/360	①
P-11	HW LOOP TO ZAMBONI & UNIT HEATERS	-	INLINE	-	-	-	460/360	①

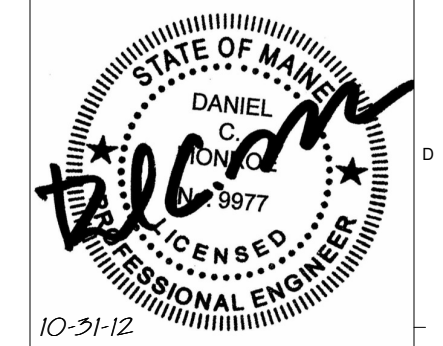
**PUMP SCHEDULE NOTES:**

- ① BASED ON TACO
- ② PREMIUM EFFICIENT INVERTER DUTY MOTOR COMPATIBLE W/ VFD.
- ③ BASED ON 30°F ΔT
- ④ TWO C-HW PUMPS DESIGNED TO OPERATE IN PARALLEL TO MAINTAIN PEAK FLOW RATE OF 1400 GPM

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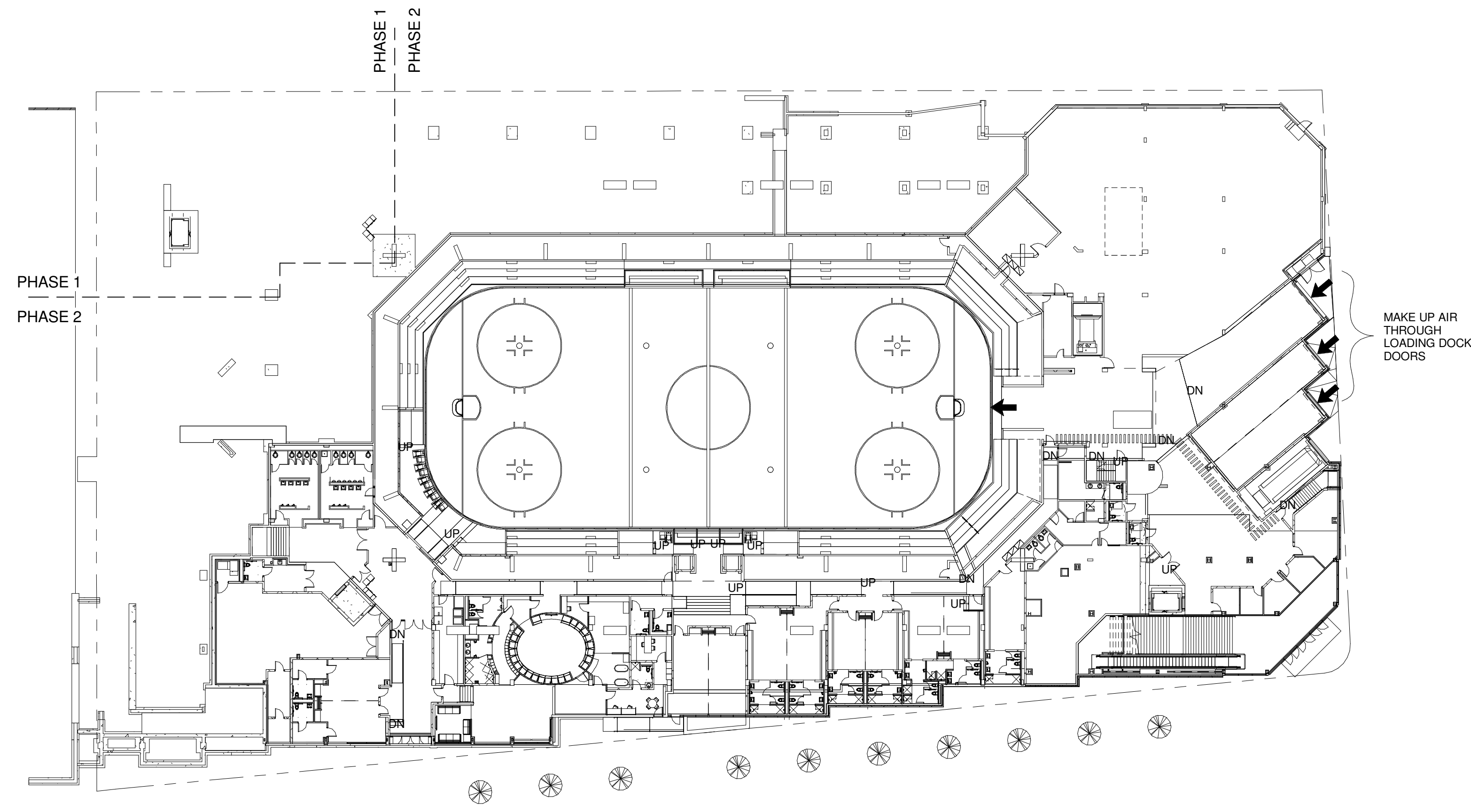
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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**

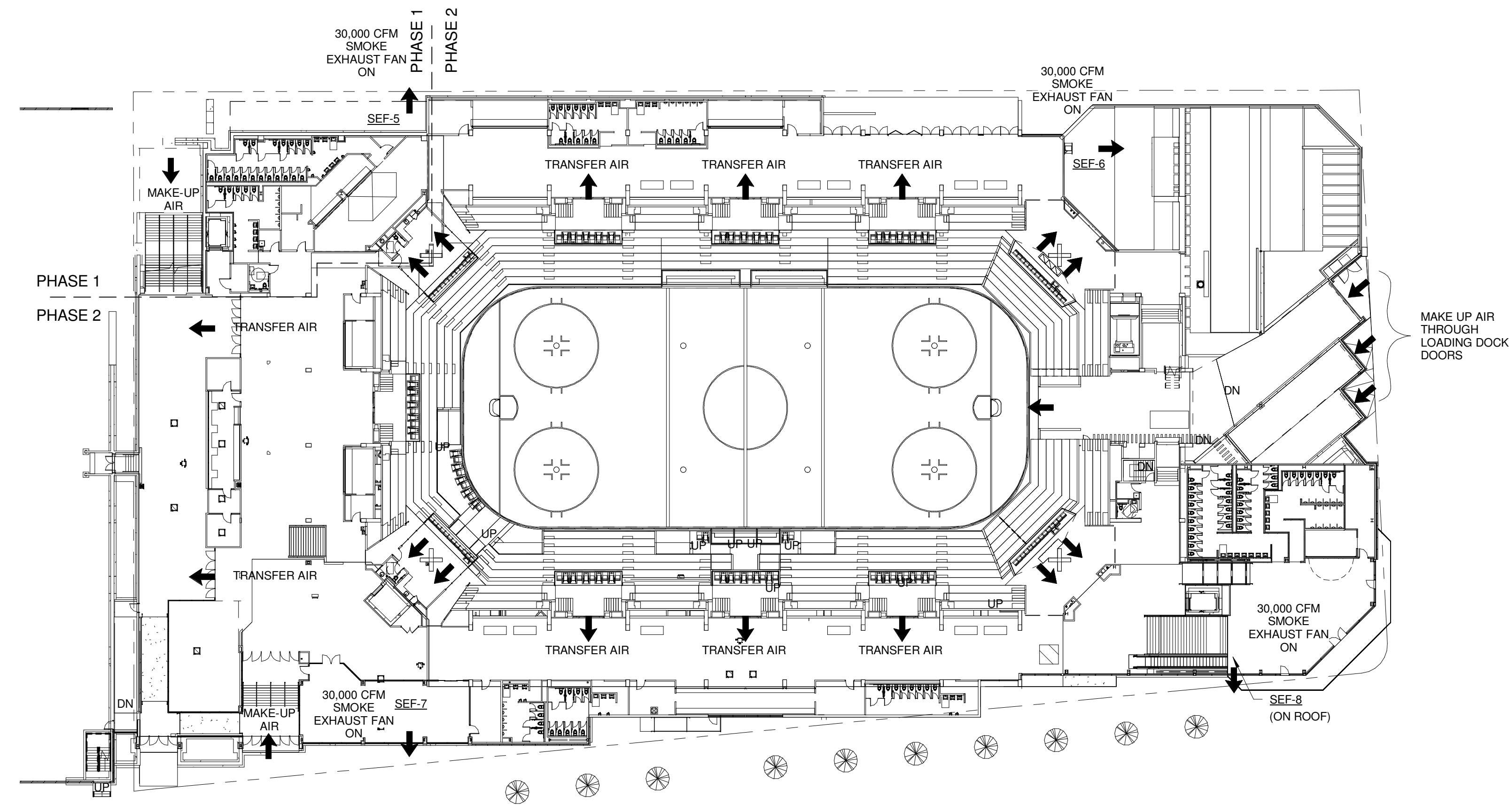
PROJECT: PORTLAND, ME

**MECHANICAL SCHEDULES**

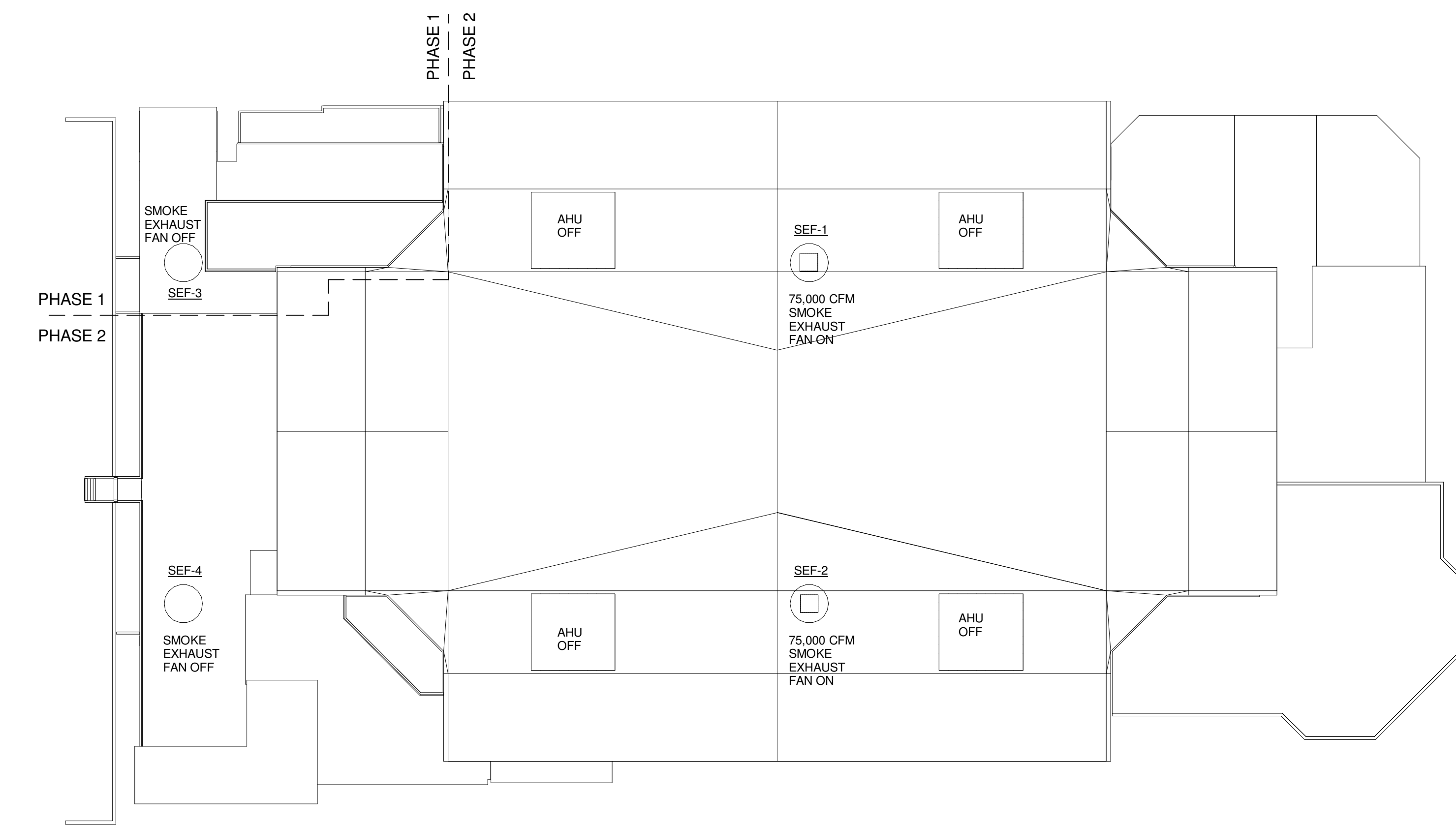
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PROJECT MANAGER: JRB	SHEET No.
DRAWN BY: COB	<b>M6.02</b>
CHECKED BY: DMON	



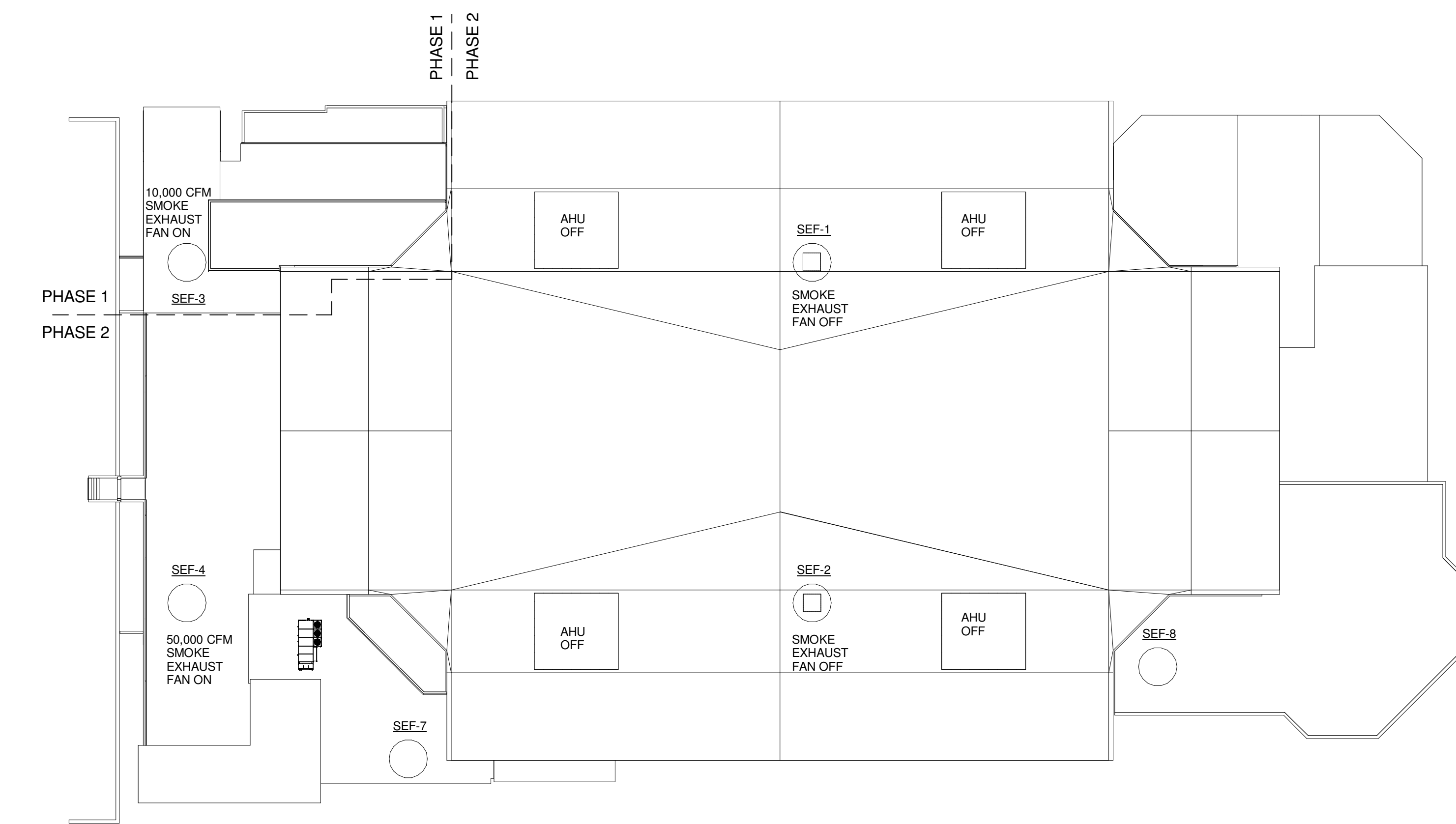
1 BOWL SMOKE CONTROL - EVENT LEVEL AIRFLOWS  
 1/32" = 1'-0"



2 CONCOURSE SMOKE CONTROL - CONCOURSE LEVEL AIRFLOWS  
 1/32" = 1'-0"



3 BOWL SMOKE CONTROL - ROOF LEVEL AIRFLOWS  
 1/32" = 1'-0"

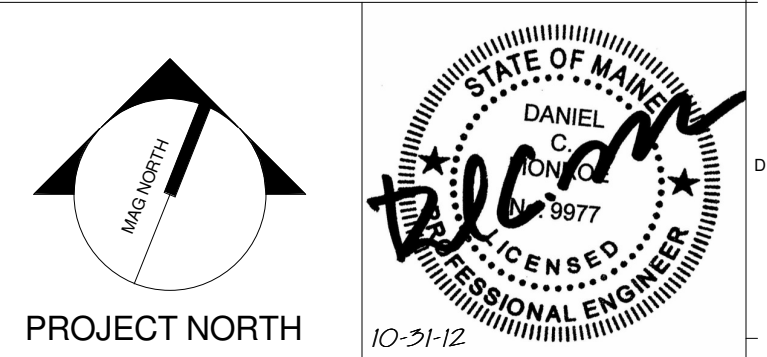


4 CONCOURSE SMOKE CONTROL - ROOF LEVEL AIRFLOWS  
 1/32" = 1'-0"

A	B
D	C

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PROJECT: PORTLAND, ME

MECHANICAL SMOKE CONTROL SCHEMATICS

WBRC CAD FILE: 375700 - 0002 Mechanical.rvt	GRAPHIC SCALE: 1" = 1'-0"
PROJECT No: 3757.00	SHEET No: M8.01
SCALE: 1/32" = 1'-0"	CHECKED BY: DMON
PROJECT MANAGER: JRB	
DRAWN BY: CGB	





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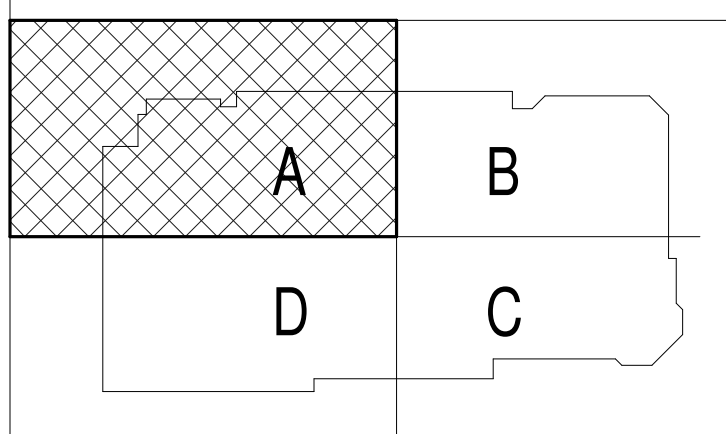
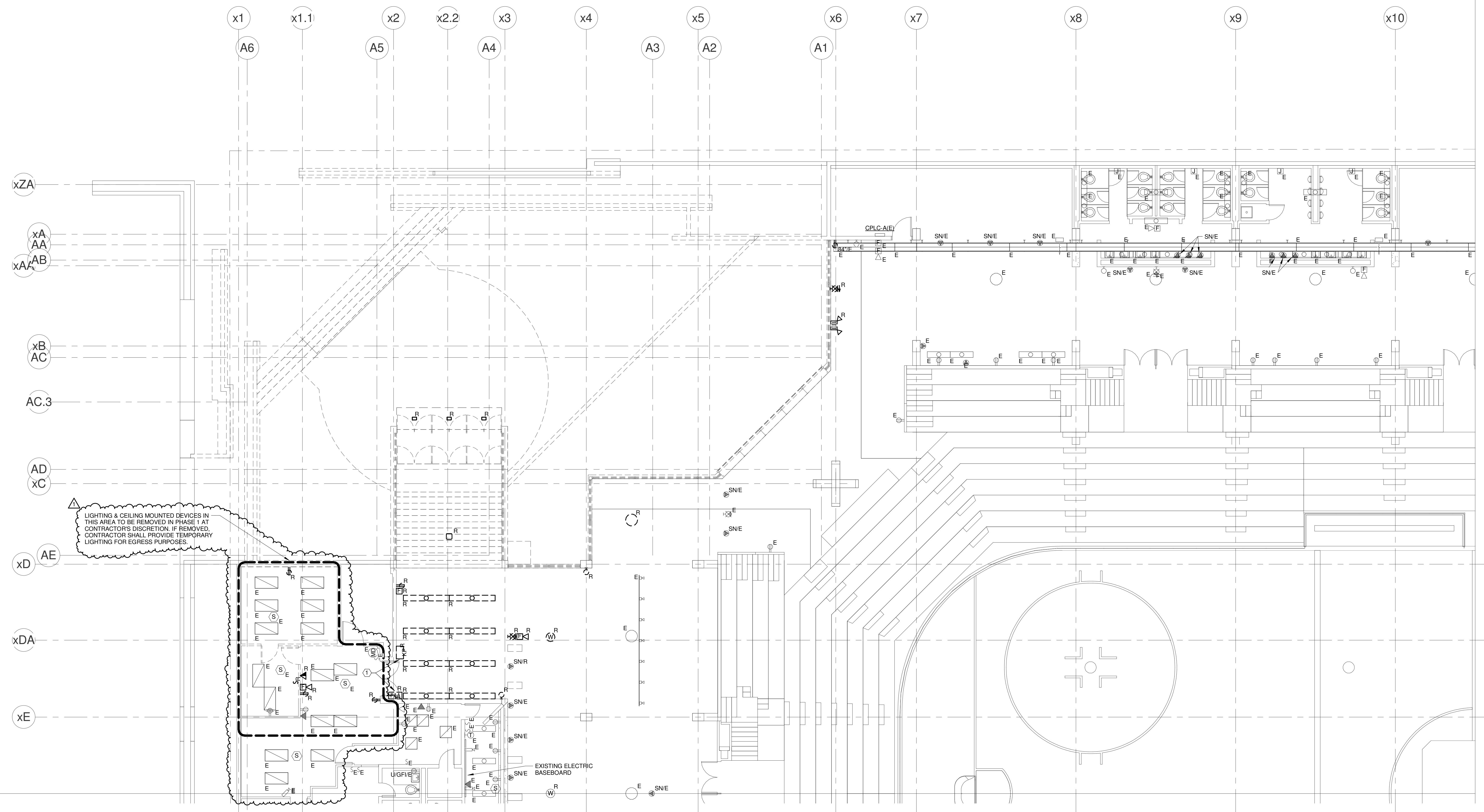
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**GENERAL DEMO NOTES:**

1. ELECTRICAL DEMOLITION DRAWING IS BASED UPON FIELD VERIFICATION AND TRU-VIEW SCANS. CONTRACTOR SHALL REMOVE & MAKE SAFE ALL ELECTRICAL EQUIPMENT (SHOWN OR NOT SHOWN) IN THE DEMOLITION SCOPE. REFER ALSO TO DEMOLITION NOTES ON SHEET E0.01A.

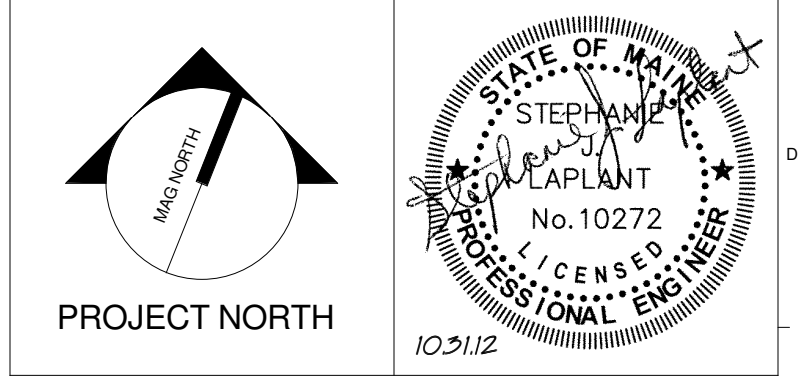
**TECHNICAL NOTES:**

① SALVAGE EQUIPMENT AND PULL BACK EXISTING CABLES TO ADJACENT MECHANICAL ROOM FOR RELOCATION IN FUTURE PHASES.



2	NW ENTRY CONSTRUCTION DOCS	10-31-2012
1	NW ENTRY F.S.E CON. DOCS	08-23-2012
0	NW ENTRY CONSTRUCTION DOCS	10-31-2012
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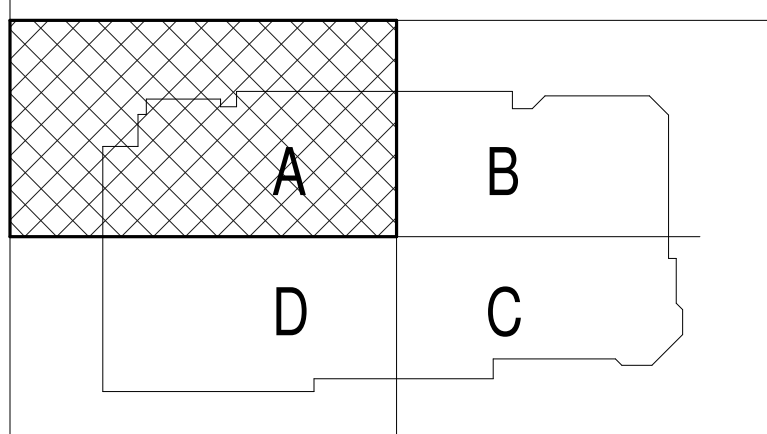
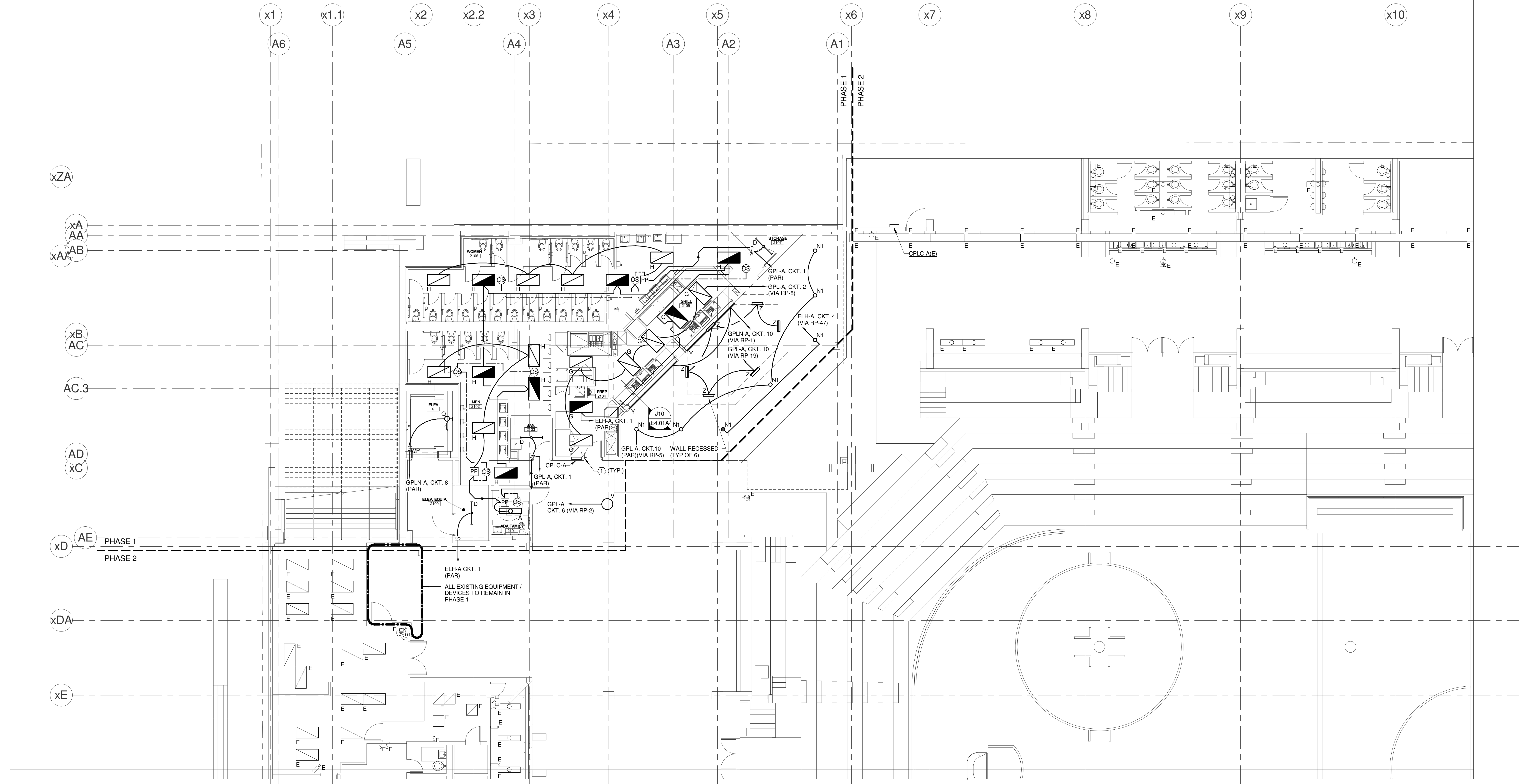
PROJECT: PORTLAND, ME  
**CONOURSE LEVEL DEMO PLAN - QUAD A**

SHEET TITLE:  
WBRC CAD FILE: C:\Users\maha\Documents\375700 - CCCC Electrical\_1\maha.rvt  
PROJECT No. **375700** GRAPHIC SCALE: 1" = 10'  
SCALE: **As indicated**  
PROJECT MANAGER: **JRB** SHEET No. **ED.21A**  
DRAWN BY: **KRM**  
CHECKED BY: **SJL**

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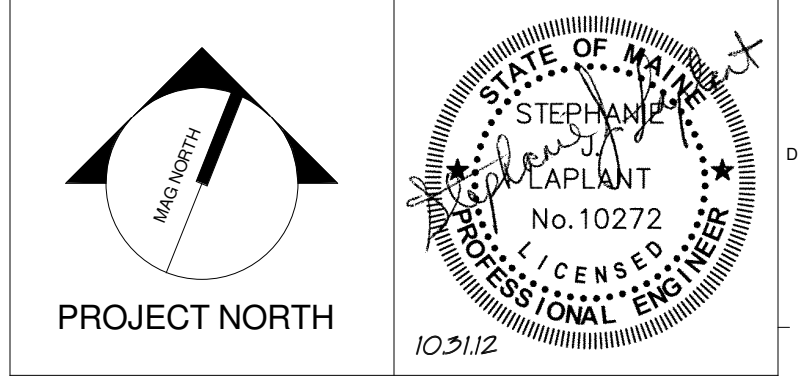
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**TECHNICAL NOTES:**  
 ① LOW VOLTAGE LIGHTING SWITCH - CONNECTION TO EXISTING LIGHTING CONTROL SYSTEM NOT SHOWN FOR CLARITY. REFER TO DETAIL AXES 03 FOR MORE INFORMATION.



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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**

PROJECT: PORTLAND, ME  
**CONCOURSE LEVEL LIGHTING PLAN - QUAD A**

SHEET TITLE	CONCOURSE LEVEL LIGHTING PLAN - QUAD A	
PROJECT No.	375700	GRAPHIC SCALE: 1" = 1'-0"
SCALE	1/8" = 1'-0"	
PROJECT MANAGER	JRB	SHEET No.
DRAWN BY	KRM	<b>E1.21A</b>
CHECKED BY	SJL	

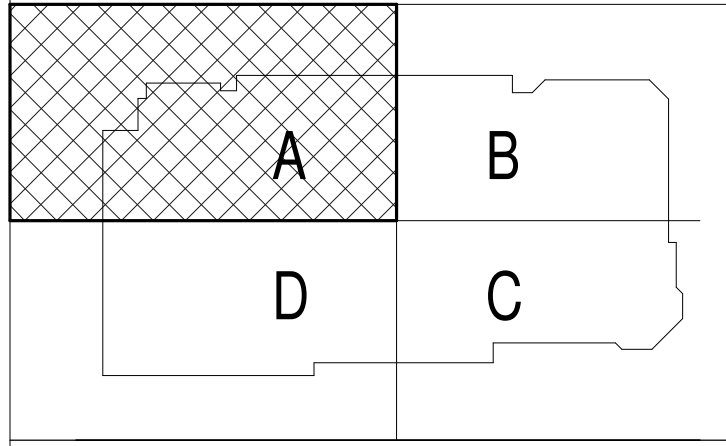
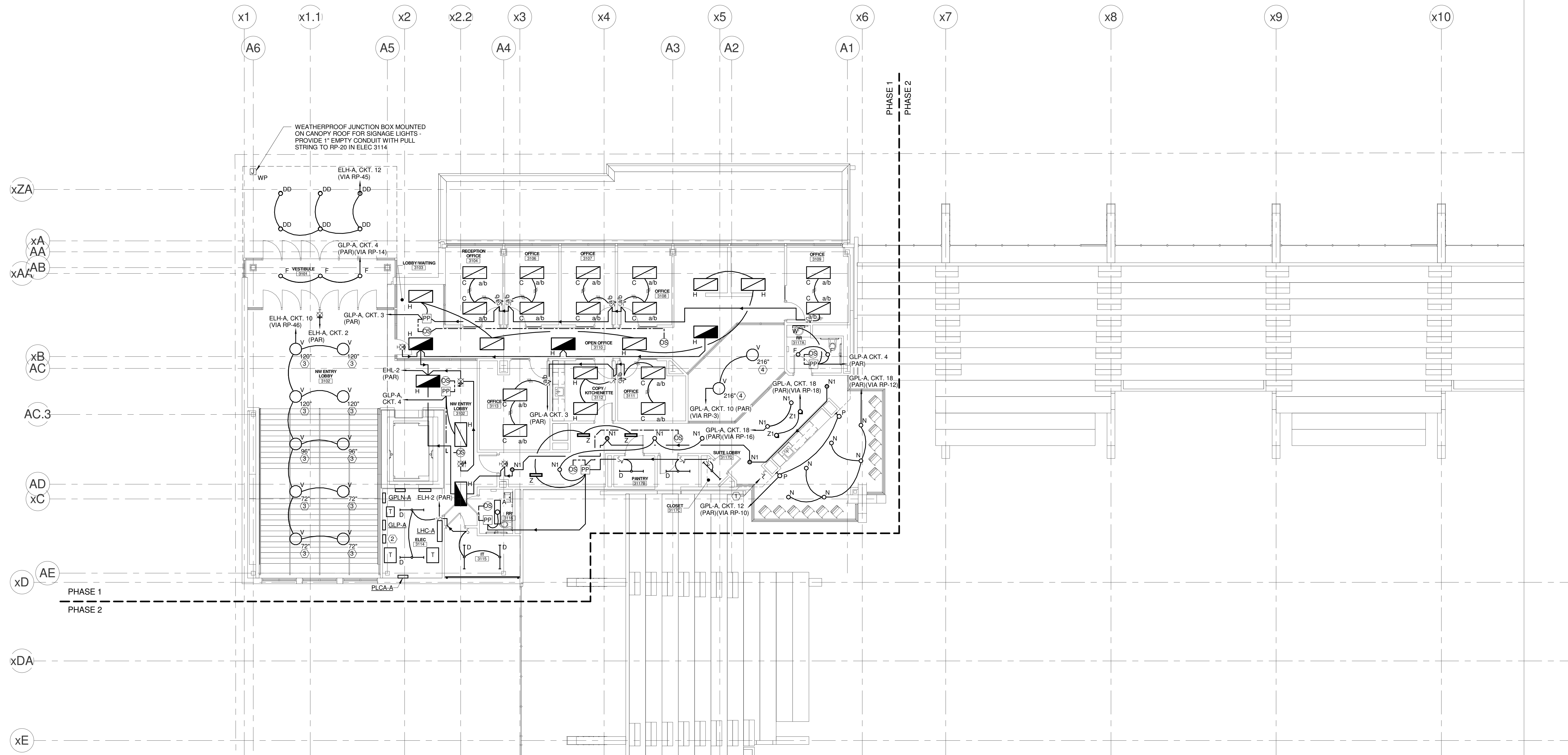
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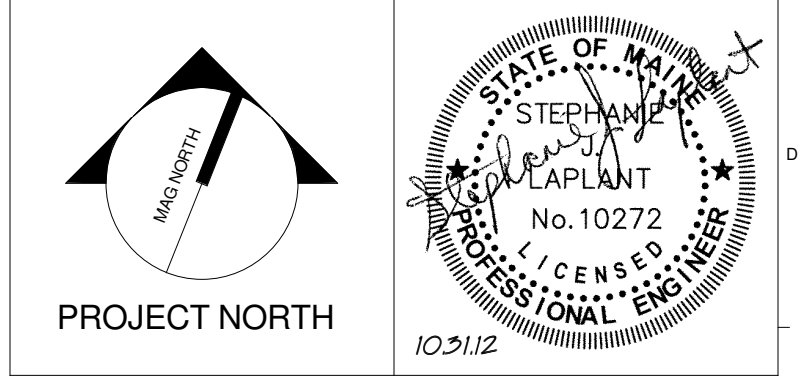
TECHNICAL NOTES:

- ① LOW VOLTAGE LIGHTING SWITCH - CONNECTION TO EXISTING LIGHTING CONTROL SYSTEM NOT SHOWN FOR CLARITY. REFER TO DETAIL A10E.03 FOR MORE INFORMATION.
- ② RELAY PANEL "RP" EQUAL TO ETC. SMARTSWITCH CATALOG #SS481P. REFER TO DETAIL A10E.03.
- ③ MOUNTING HEIGHT TO BOTTOM OF FIXTURE ABOVE ENTRY LOBBY LEVEL. THIS FIXTURE ONLY.
- ④ MOUNTING HEIGHT TO BOTTOM OF FIXTURE ABOVE CONCOURSE FLOOR LEVEL. THIS FIXTURE ONLY.



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CUMBERLAND COUNTY CIVIC CENTER RENOVATION  
PROJECT: PORTLAND, ME

MID SUITES LEVEL LIGHTING PLAN - QUAD A

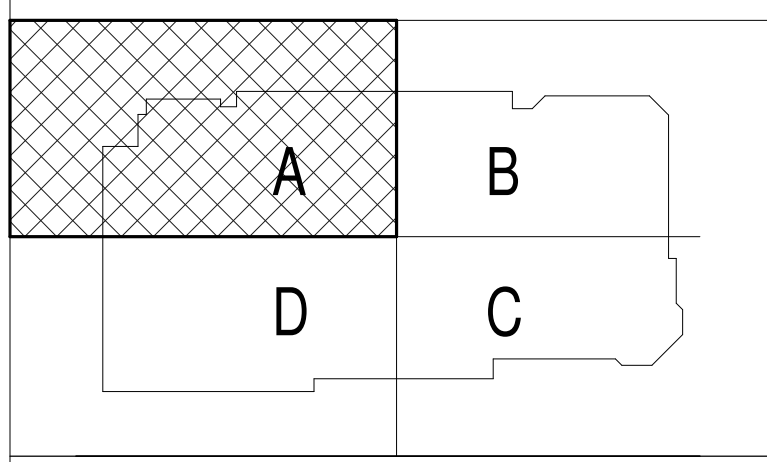
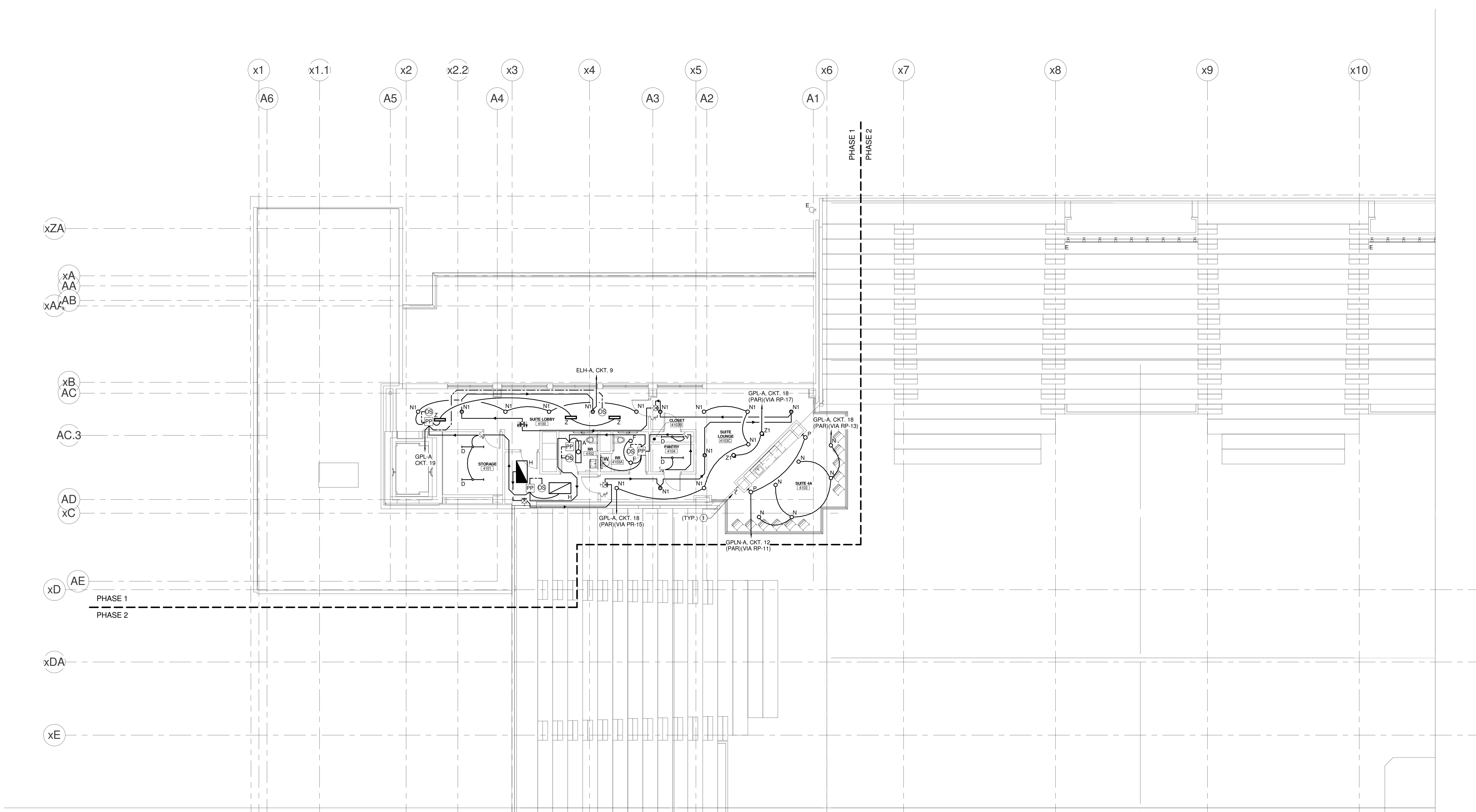
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PROJECT No. 375700	SCALE: 1/8" = 1'-0"
PROJECT MANAGER: JRB	SHEET No. E1.31A
DRAWN BY: KRM	
CHECKED BY: S.J.	

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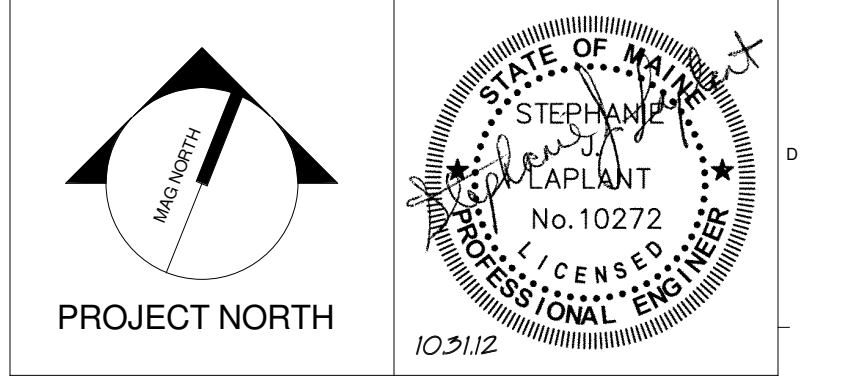
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**TECHNICAL NOTES:**  
① LOW VOLTAGE LIGHTING SWITCH - CONNECTION TO EXISTING LIGHTING CONTROL SYSTEM NOT SHOWN FOR CLARITY. REFER TO DETAIL \_\_\_E-502 FOR MORE INFORMATION.



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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**  
PROJECT: PORTLAND, ME

**UPPER SUITES LEVEL LIGHTING PLAN - QUAD A**

PROJECT No.	375700	GRAPHIC SCALE	1" = 1'
SCALE	1/8" = 1'-0"		
PROJECT MANAGER	JRB	SHEET No.	E1.41A
DRAWN BY	KRM		
CHECKED BY	SJL		

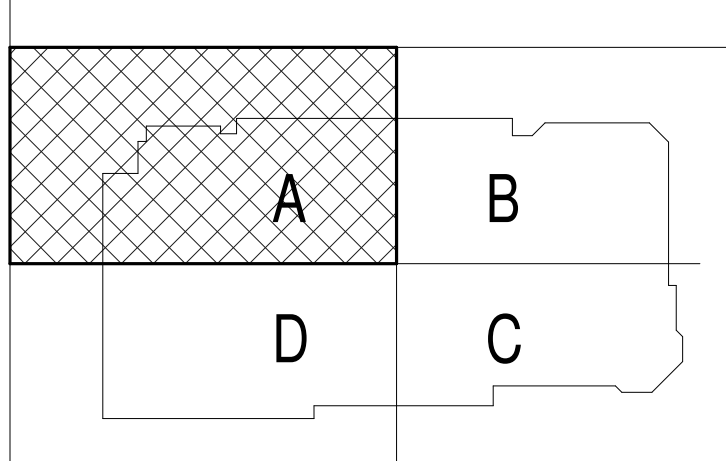
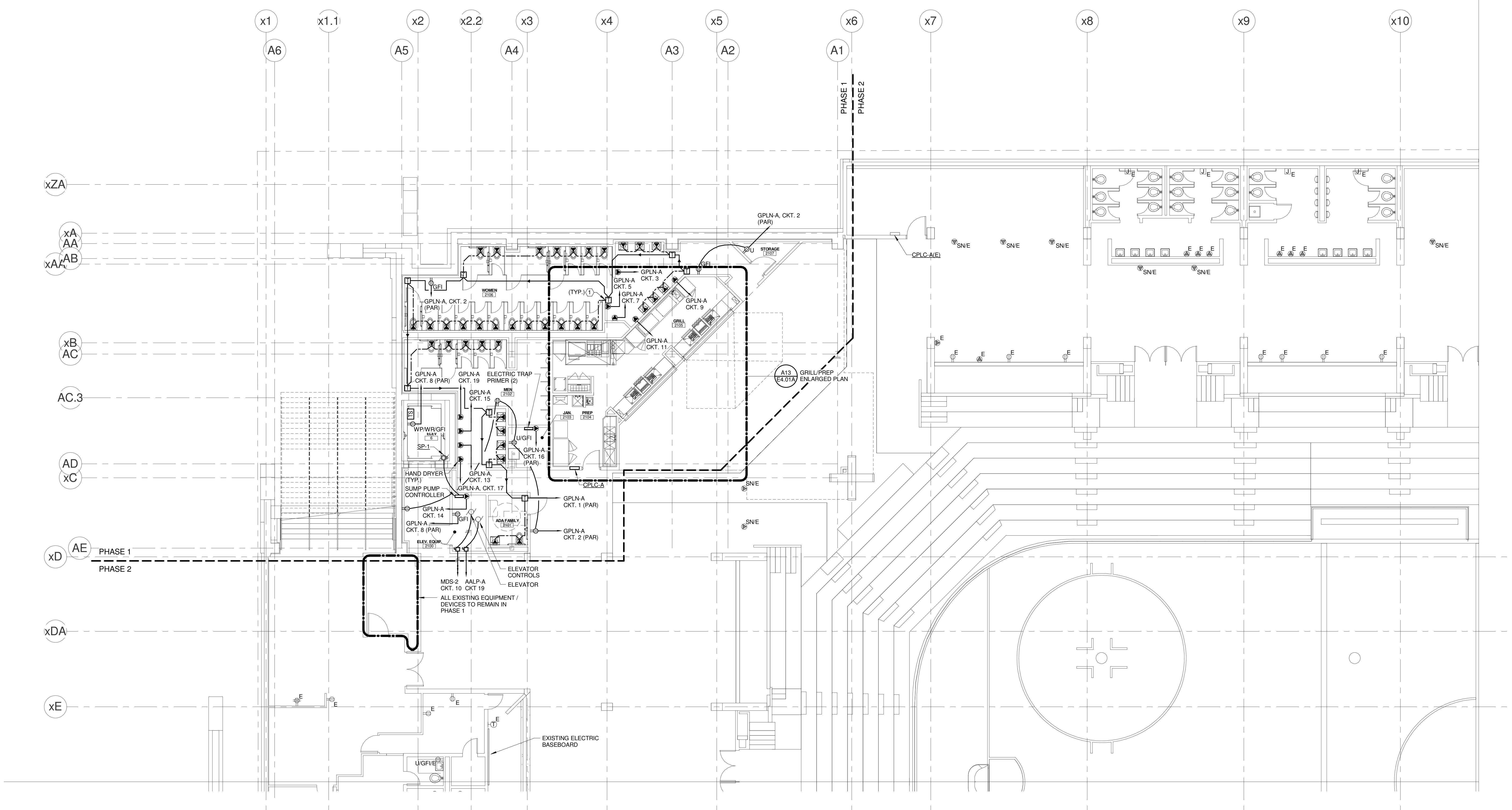
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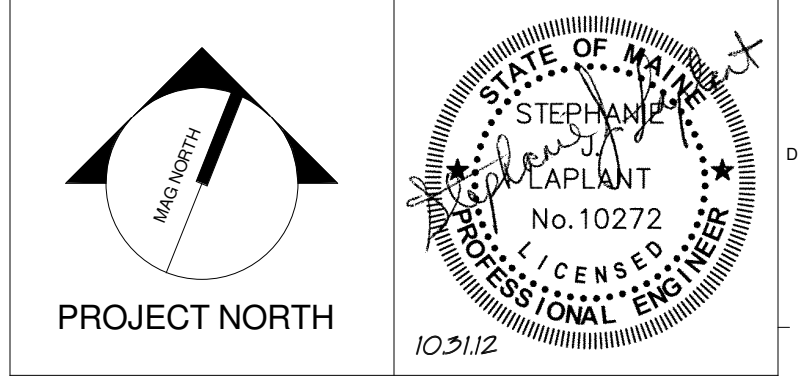
**TECHNICAL NOTES:**

- ① HANDS FREE DEVICE TRANSFORMER - TRANSFORMER & ASSOCIATED HANDS FREE DEVICES PROVIDED & INSTALLED BY DIV. 22. ALL LINE AND LOW VOLTAGE WIRING ASSOCIATED WITH HANDS FREE SYSTEM BY DIV. 28. REFER TO DETAIL M11/ES.02 FOR MORE INFORMATION. TRANSFORMER SHALL BE MOUNTED ABOVE NEAREST ACCESSIBLE CEILING.



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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**

PROJECT: PORTLAND, ME  
**CONOURSE LEVEL POWER PLAN - QUAD A**

PROJECT No.	375700	GRAPHIC SCALE	1" = 10'
SCALE	1/8" = 1'-0"	SHEET No.	E2.21A
PROJECT MANAGER	JRB	DRAWN BY	KRM
CHECKED BY	SJL		

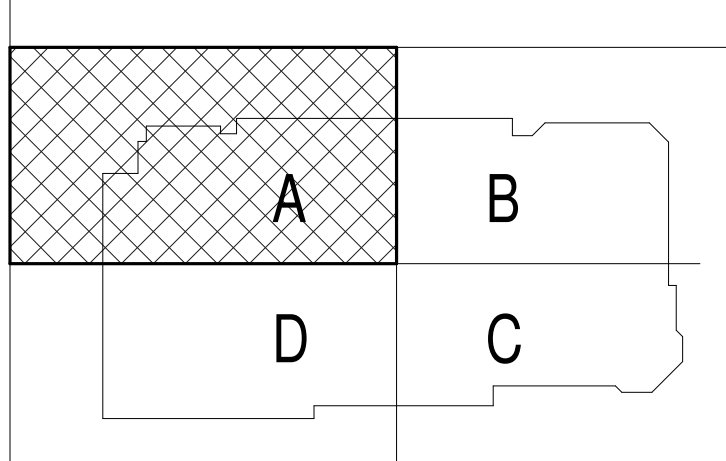
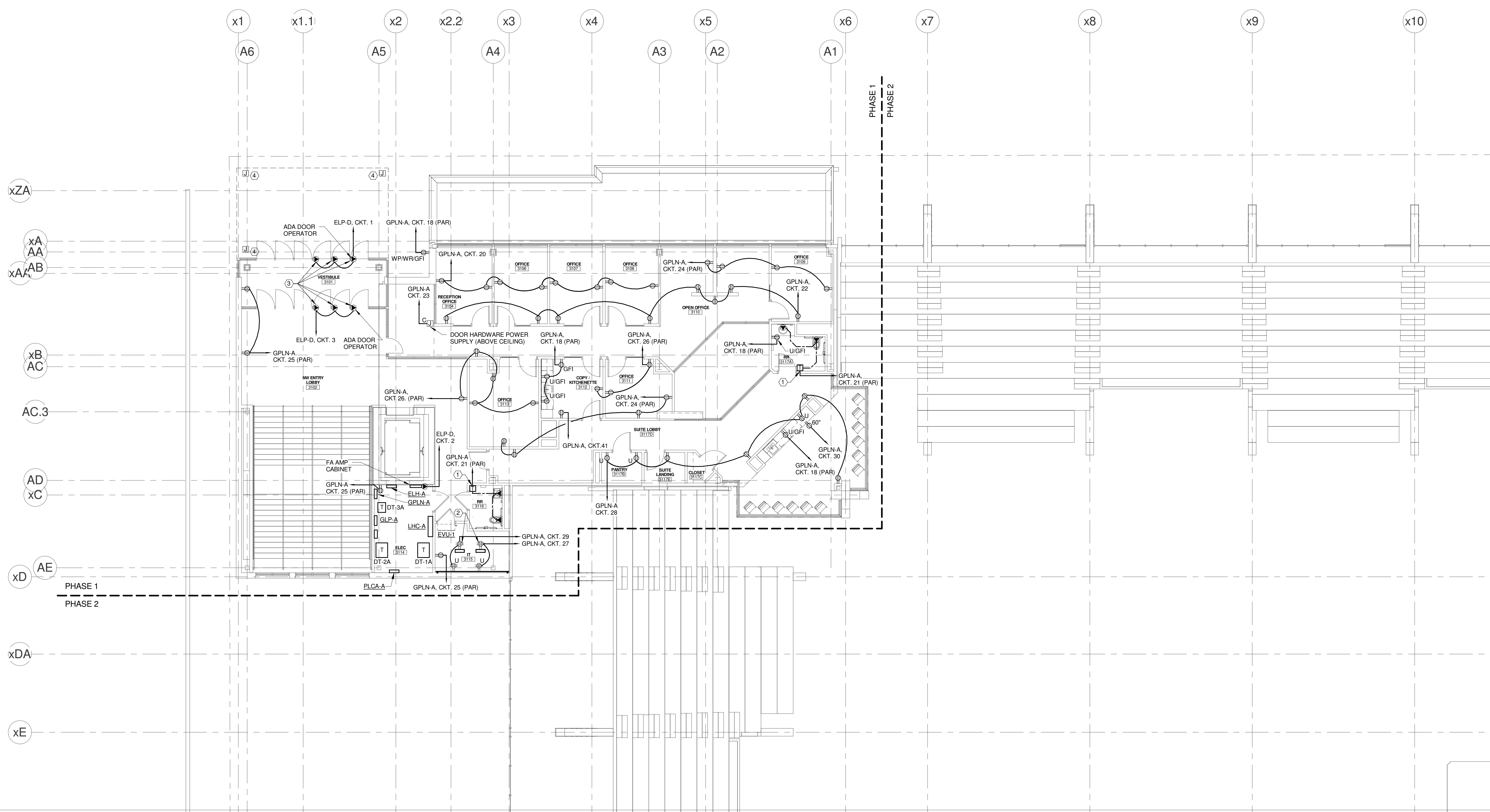
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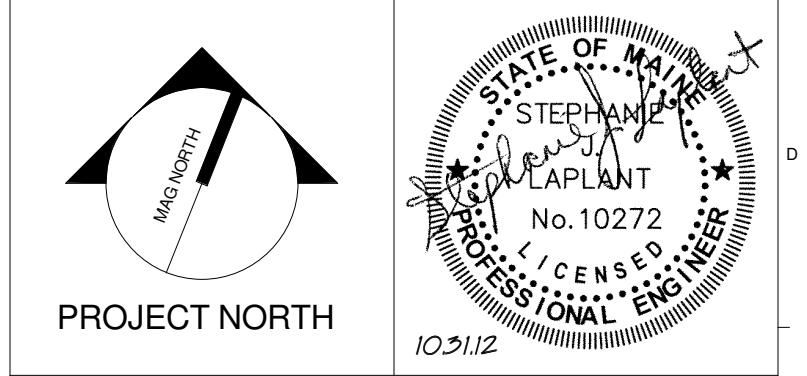
**TECHNICAL NOTES:**

- ① HANDS FREE DEVICE TRANSFORMER - TRANSFORMER & ASSOCIATED HANDS FREE DEVICES PROVIDED & INSTALLED BY DIV. 22. ALL ASSOCIATED WIRING ASSOCIATED WITH HANDS FREE SYSTEM BY DIV. 26. REFER TO DETAIL M11ES.02 FOR MORE INFORMATION. TRANSFORMER SHALL BE MOUNTED ABOVE NEAREST ACCESSIBLE CEILING.
- ② MOUNT ON THE BACK SIDE OF RACK @ 60°.
- ③ ELECTRICALLY ACTUATED DOOR TO OPEN UPON ACTIVATION OF SMOKE CONTROL SYSTEM.
- ④ JUNCTION BOX ABOVE CANOPY CEILING WITH 1" EMPTY CONDUIT AND PULL STRING TO ELEC 3114 FOR POWER FOR FUTURE OS/IS RIBBON BOARDS.



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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**

PROJECT: PORTLAND, ME  
**MID SUITES LEVEL POWER PLAN - QUAD A**

SHEET TITLE	WBRC CAD FILE: C:\Users\jaye\Documents\375700 - CCCC Electrical\jaye.mahar.rvt	
PROJECT No.	375700	GRAPHIC SCALE: 1" = 10'
SCALE	1/8" = 1'-0"	
PROJECT MANAGER	JRB	SHEET No.
DRAWN BY	KRM	<b>E2.31A</b>
CHECKED BY	SJL	

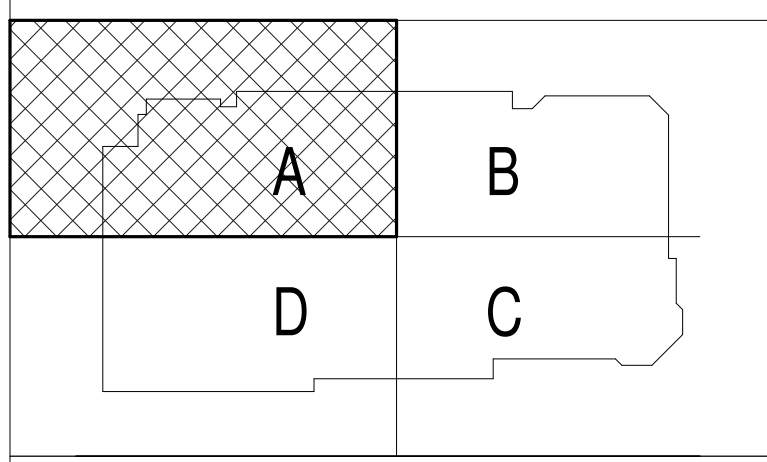
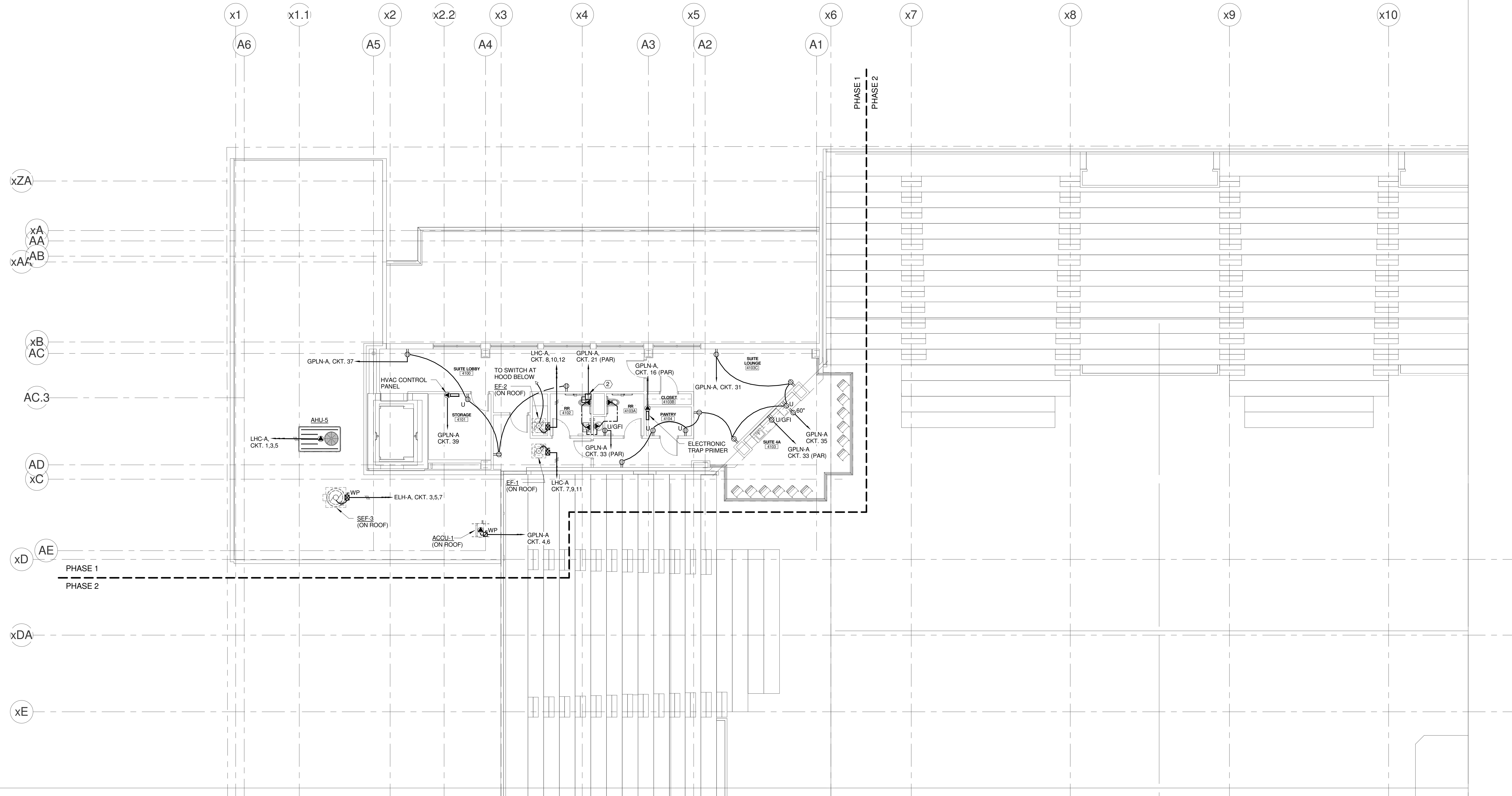
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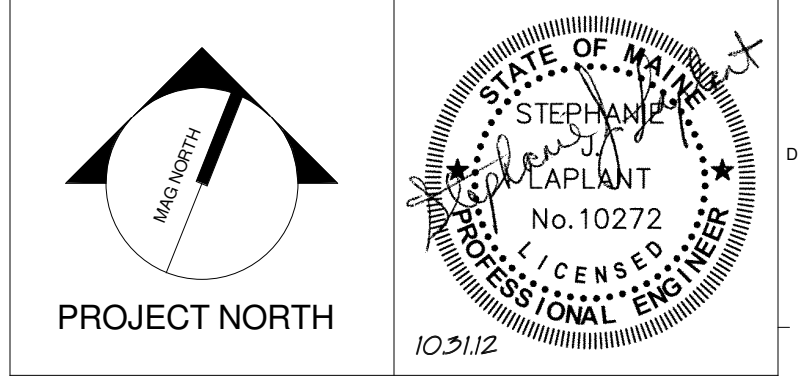
**TECHNICAL NOTES:**

- ① MOUNT ON ROOFTOP EQUIPMENT CURB.
- ② HANDS FREE DEVICE TRANSFORMER - TRANSFORMER & ASSOCIATED HANDS FREE DEVICES PROVIDED & INSTALLED BY DIV. 22. ALL ASSOCIATED WIRING ASSOCIATED WITH HANDS FREE SYSTEM BY DIV. 28. REFER TO DETAIL M17E5.02 FOR MORE INFORMATION. TRANSFORMER SHALL BE MOUNTED ABOVE NEAREST ACCESSIBLE CEILING.



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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**  
PROJECT: PORTLAND, ME  
**UPPER SUITES LEVEL  
POWER PLAN - QUAD A**

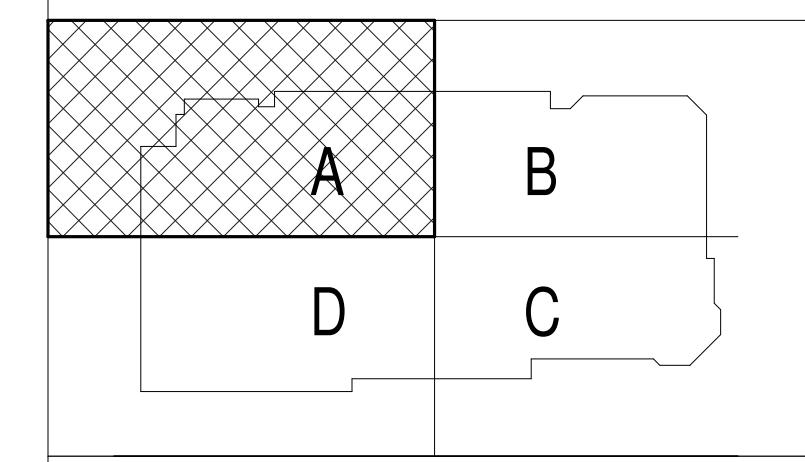
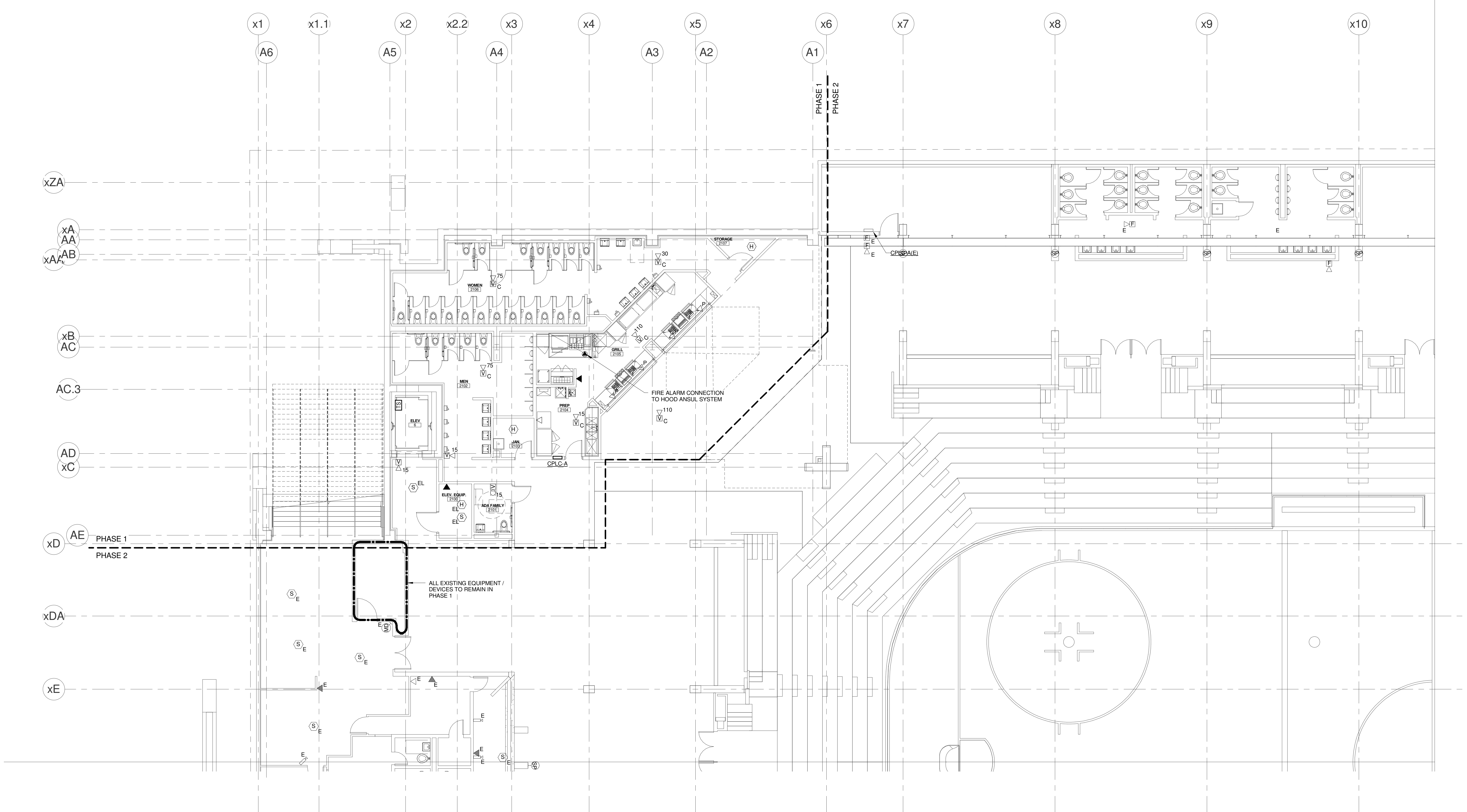
PROJECT No.	375700	GRAPHIC SCALE	1" = 10'
SCALE	1/8" = 1'-0"		
PROJECT MANAGER	JRB	SHEET No.	E2.41A
DRAWN BY	KRM		
CHECKED BY	SJL		

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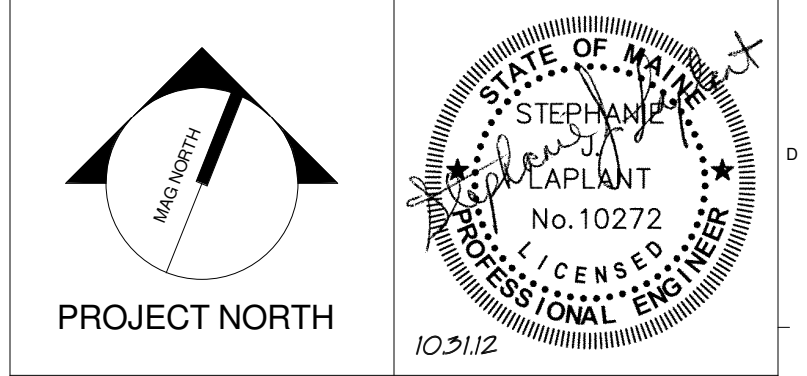
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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**  
PROJECT: PORTLAND, ME  
**CONCOURSE LEVEL SYSTEMS PLAN - QUAD A**

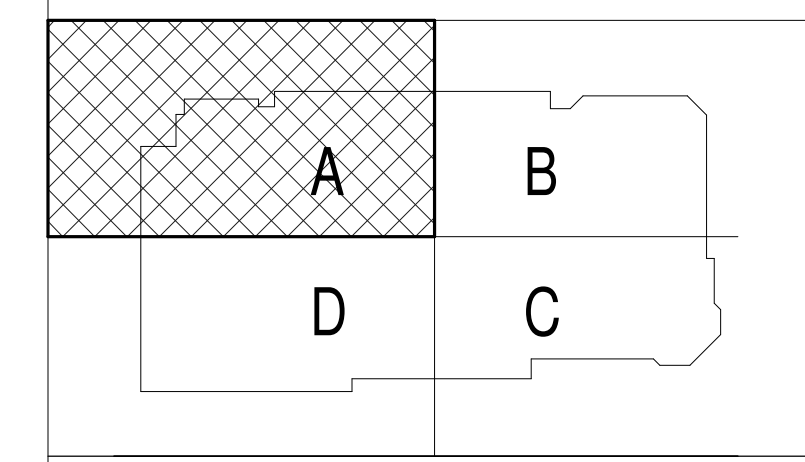
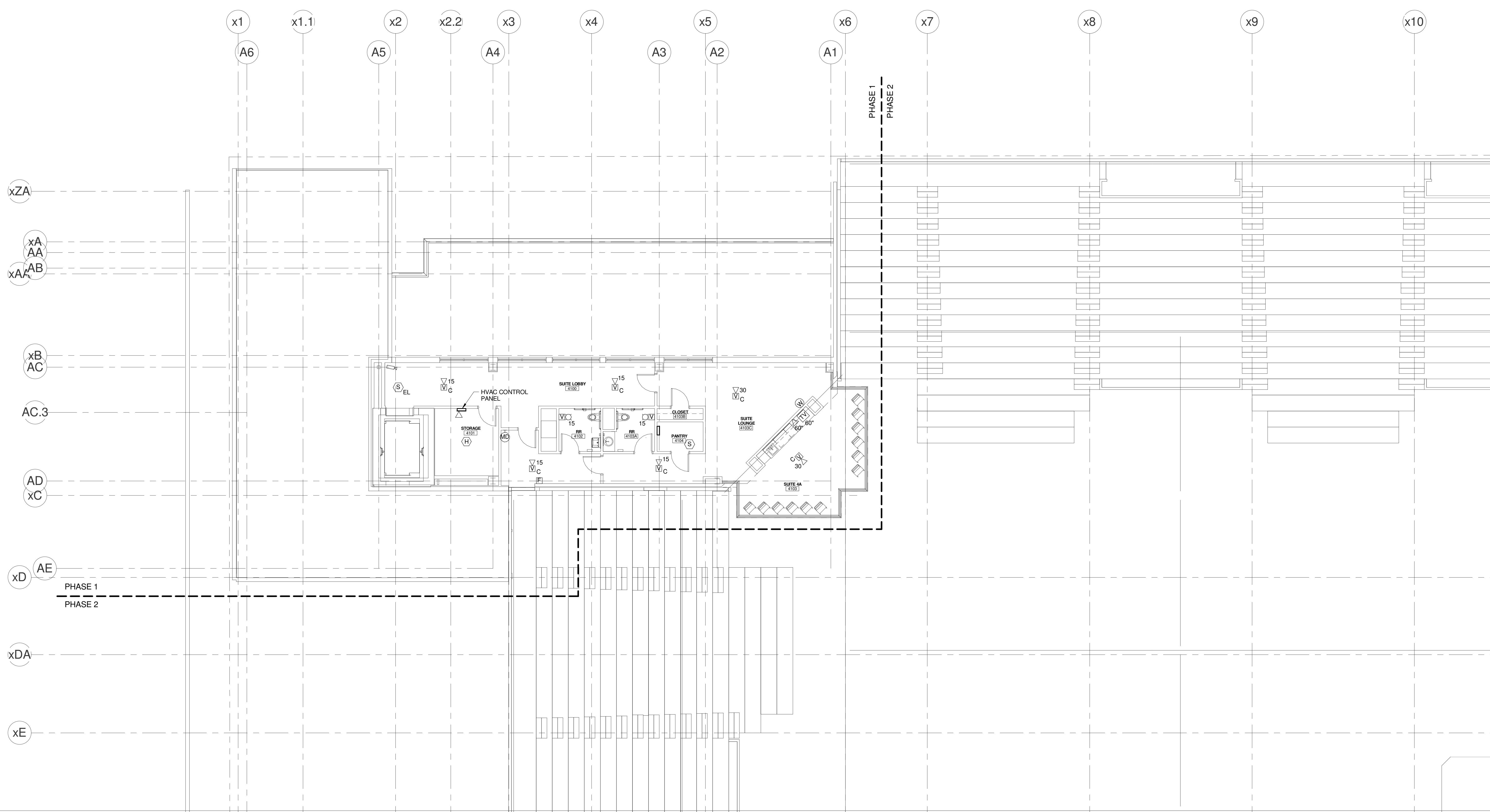
PROJECT No.	375700	GRAPHIC SCALE	1" = 10'
SCALE	1/8" = 1'-0"		
PROJECT MANAGER	JRB	SHEET No.	E3.21A
DRAWN BY	KRM		
CHECKED BY	SJL		

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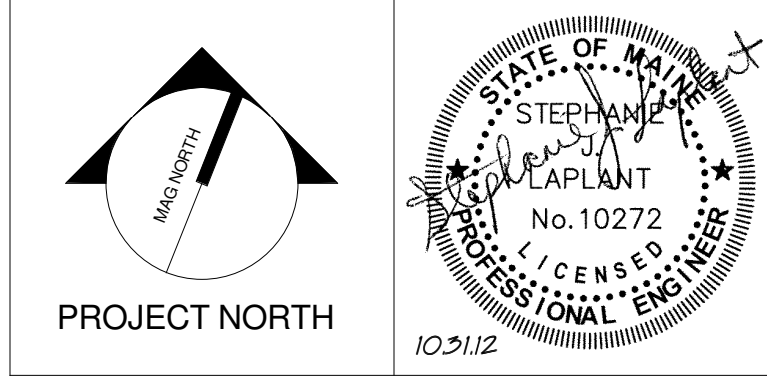
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**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**  
 PROJECT: PORTLAND, ME

**UPPER SUITES LEVEL SYSTEMS PLAN - QUAD A**

WBRC CAD FILE: C:\Users\jmalin\Documents\375700 - CCCC Electrical_1\jye.mahar.rvt	GRAPHIC SCALE: 1" = 10'
PROJECT No: 375700	SCALE: 1/8" = 1'-0"
PROJECT MANAGER: JRB	DRAWN BY: KRM
CHECKED BY: S.J.	SHEET No: <b>E3.41A</b>

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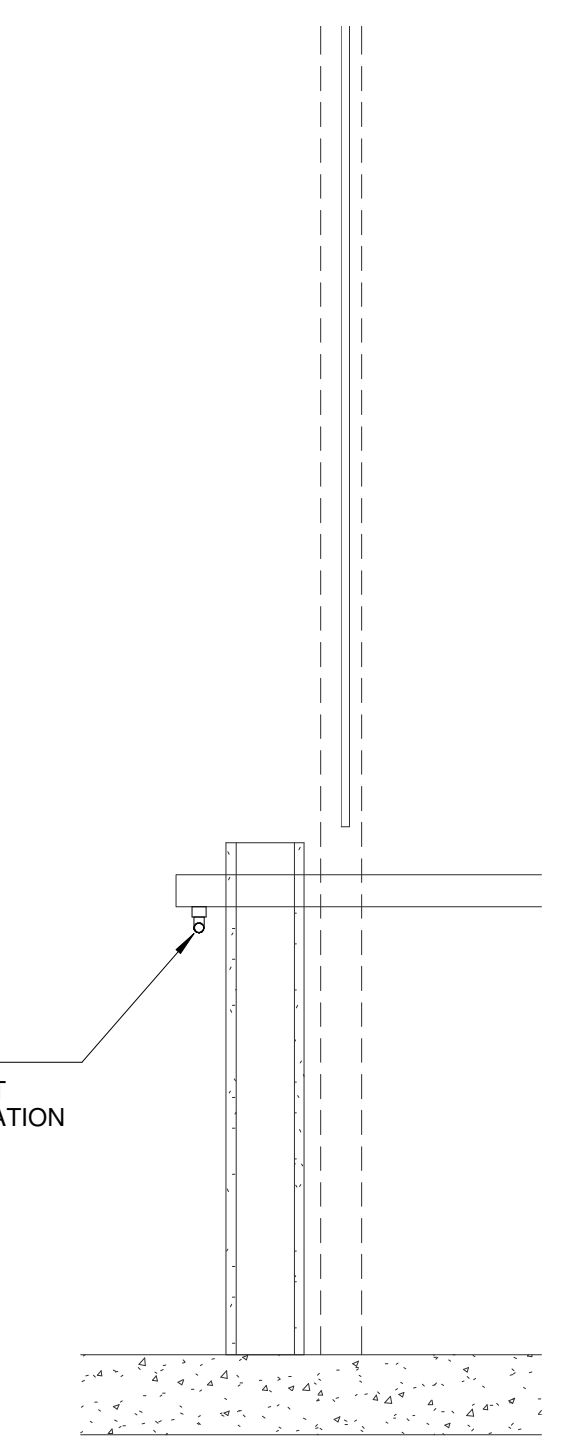
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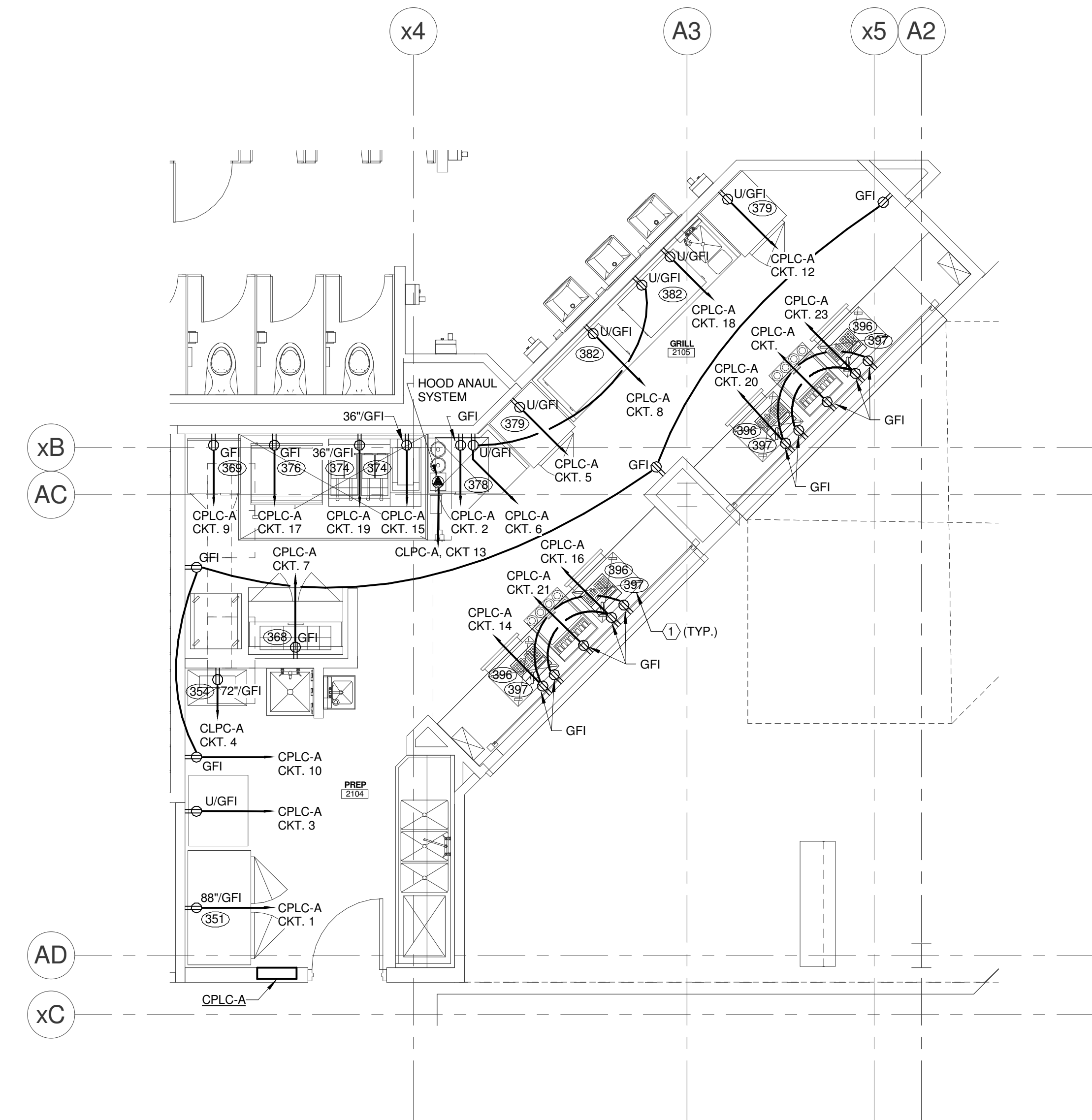
**TECHNICAL NOTES:**

- ① FOOD SERVICE EQUIPMENT ITEM NUMBER - REFER TO FOOD SERVICE SHEETS FOR ADDITIONAL INFORMATION.
- ② TO FIRE ALARM SYSTEM - PROVIDE ALL INTER-CONNECTIONS AS REQUIRED BY CODE.

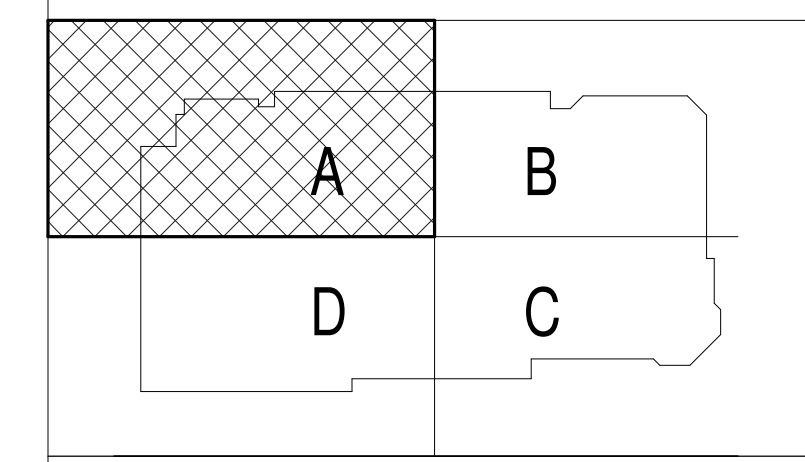
TYPE "Y" UNDERCOUNTER  
FIXTURE - REFER TO SHEET  
E1.21A FOR MORE INFORMATION



**J10 UNDER COUNTER LIGHTING SECTION**  
1" = 1'-0"

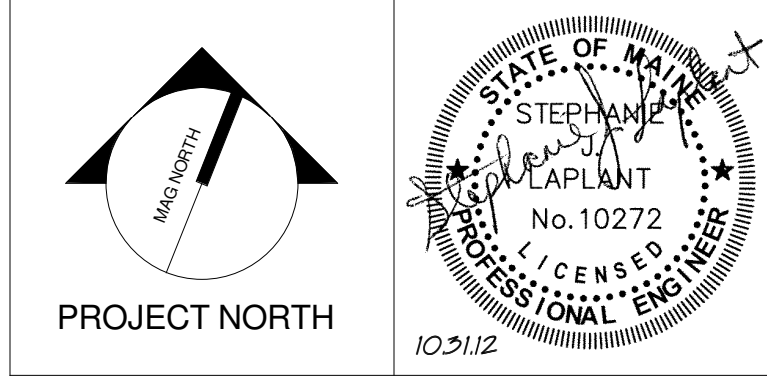


**A13 PREP 2104 / GRILL 2105**  
1/4" = 1'-0"



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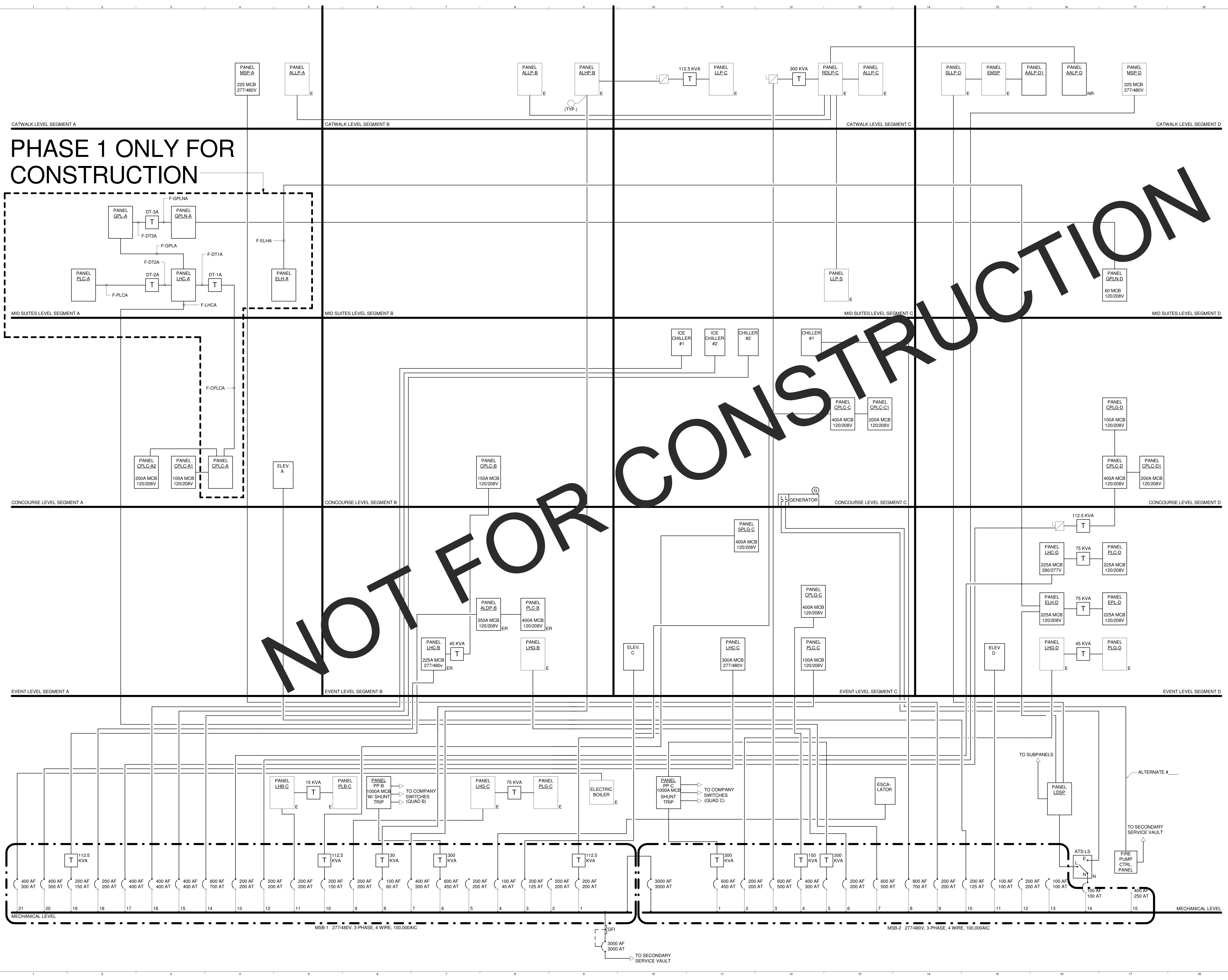
**CUMBERLAND COUNTY CIVIC CENTER RENOVATION**

PROJECT: PORTLAND, ME  
**ENLARGED ELECTRICAL PLANS**

PROJECT No.	375700	GRAPHIC SCALE	1" = 1'-0"
SCALE	As indicated		
PROJECT MANAGER	JRB	SHEET No.	E4.01A
DRAWN BY	KRM		
CHECKED BY	SJL		

TECHNICAL NOTES:

- ① NOT USED
- ② PROVIDE NEW FEEDERS TO ALL EXISTING PANELBOARDS.

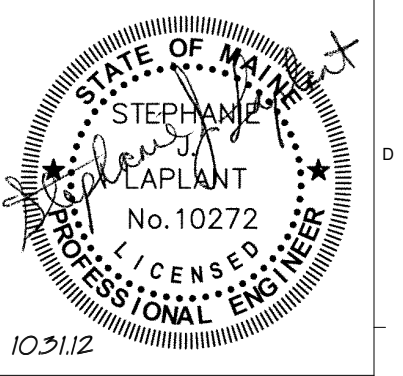


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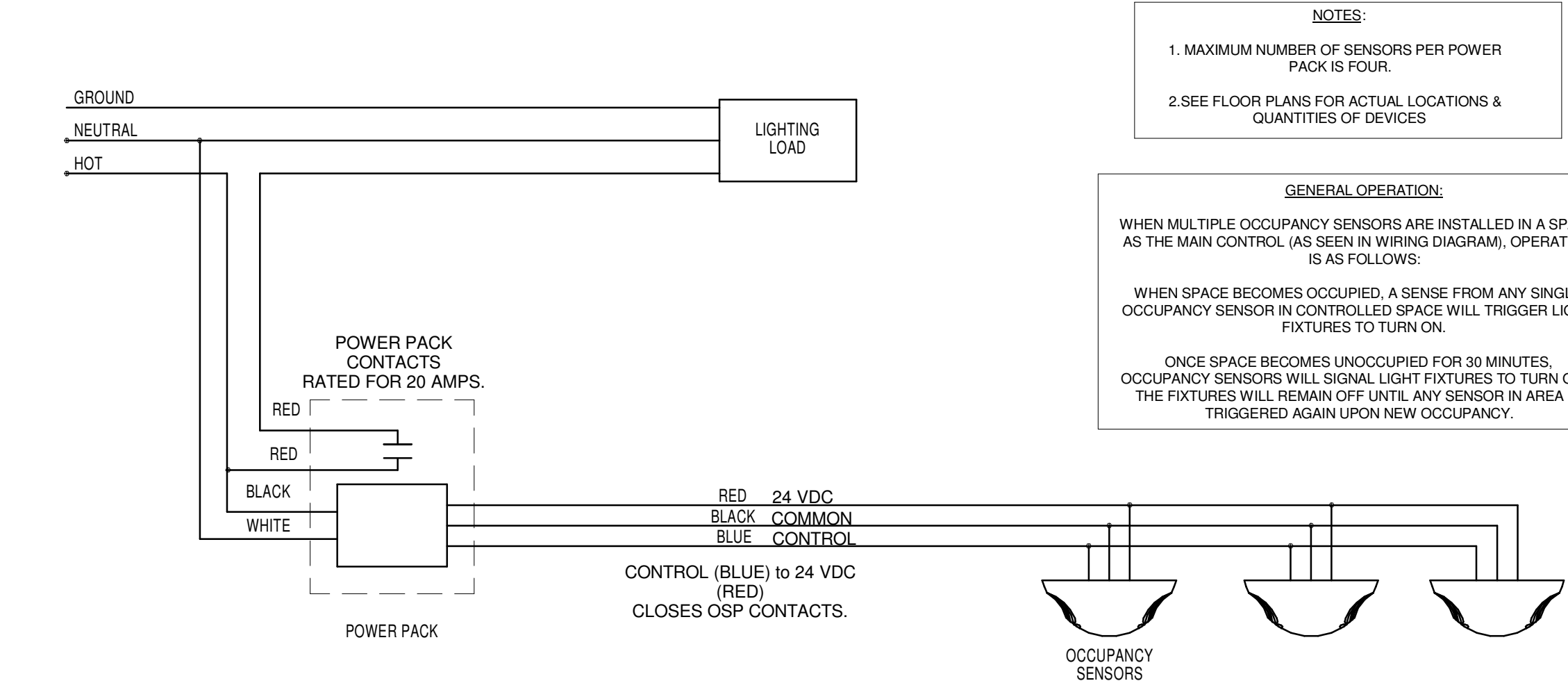
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CUMBERLAND COUNTY CIVIC CENTER RENOVATION

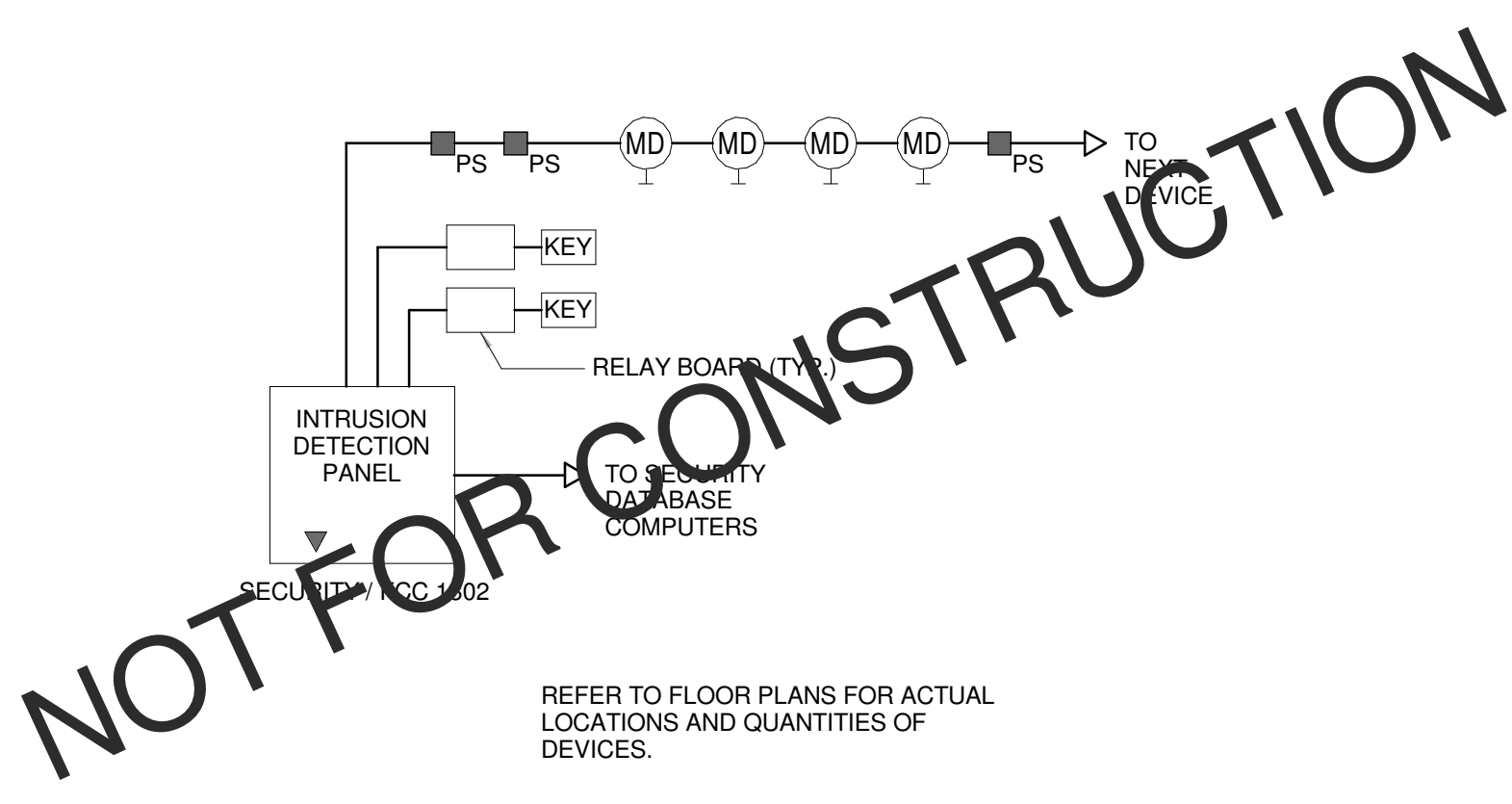
PROJECT: PORTLAND, ME  
ELECTRICAL DETAILS

SHEET TITLE:	E5.01
WBRC CAD FILE:	C:\Users\jmar\Documents\375700 - CCCC Electrical\jmar\mshr.rvt
PROJECT No.:	375700
SCALE:	1/4" = 1'-0"
PROJECT MANAGER:	JRB
DRAWN BY:	KRM
CHECKED BY:	SJL

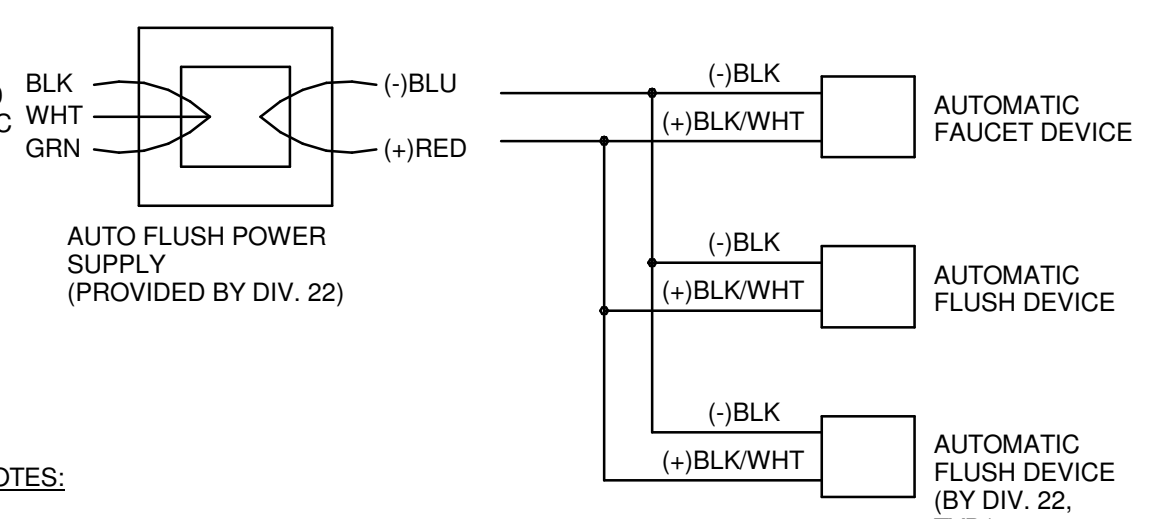
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M1 MULTIPLE OCCUPANCY SENSOR WIRING DIAGRAM NOT TO SCALE

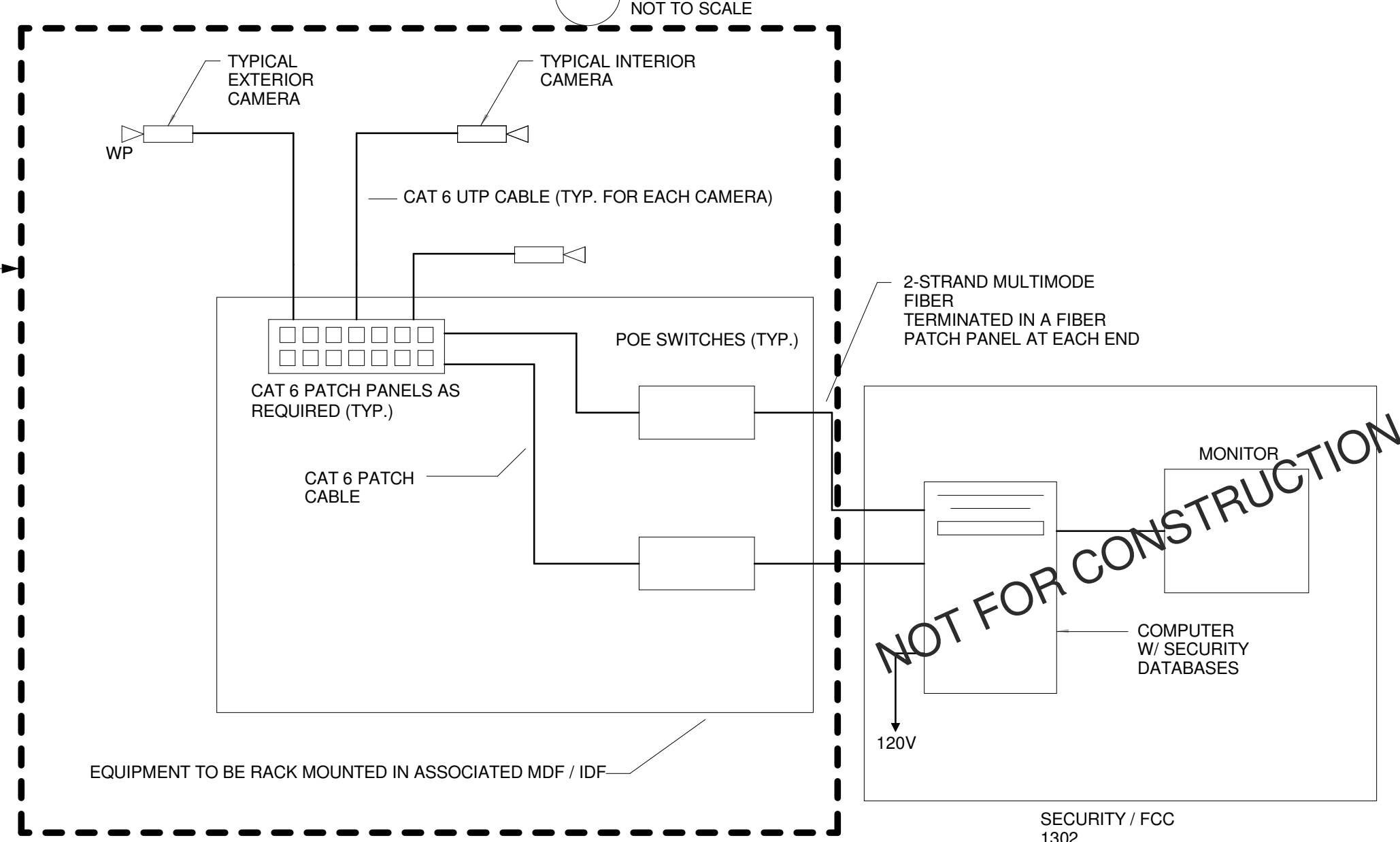


M8 INTRUSION DETECTION NOT TO SCALE

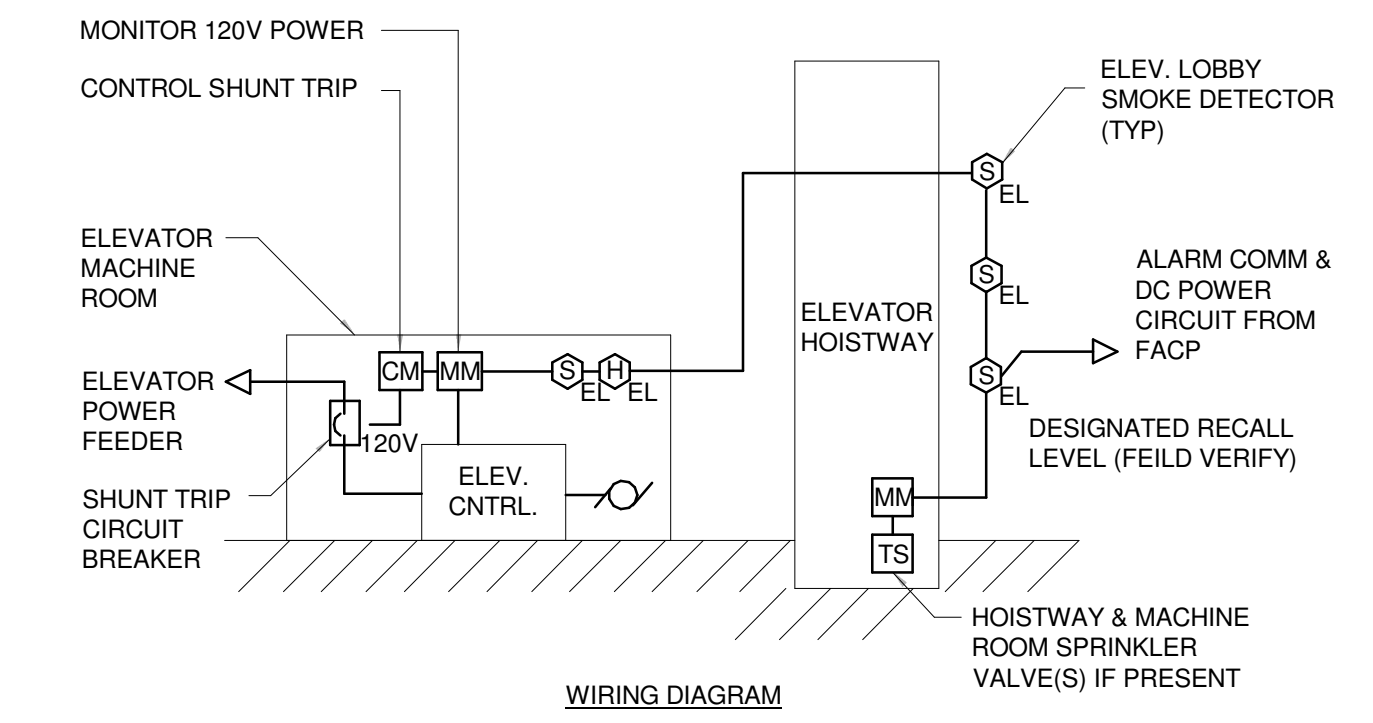


M11 AUTOMATIC FLUSH/FAUCET DEVICE WIRING DIAGRAM NOT TO SCALE

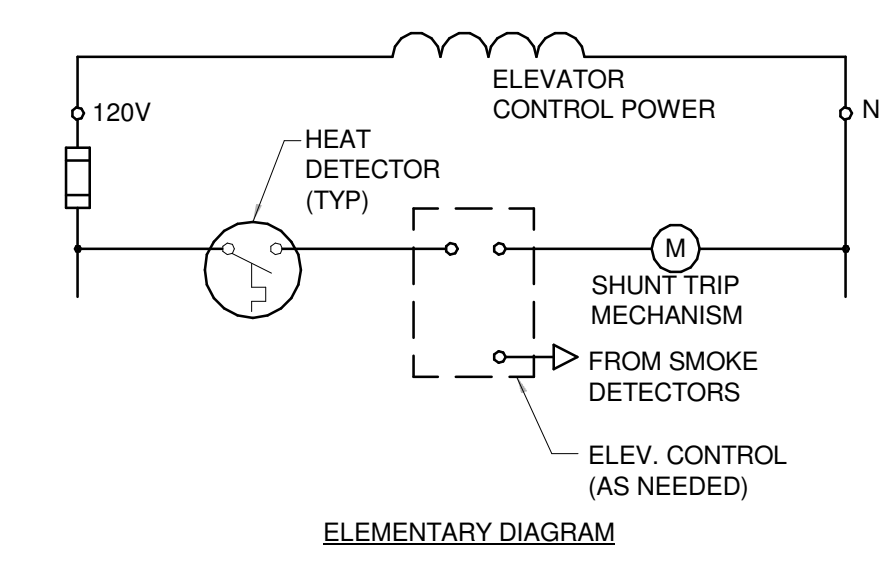
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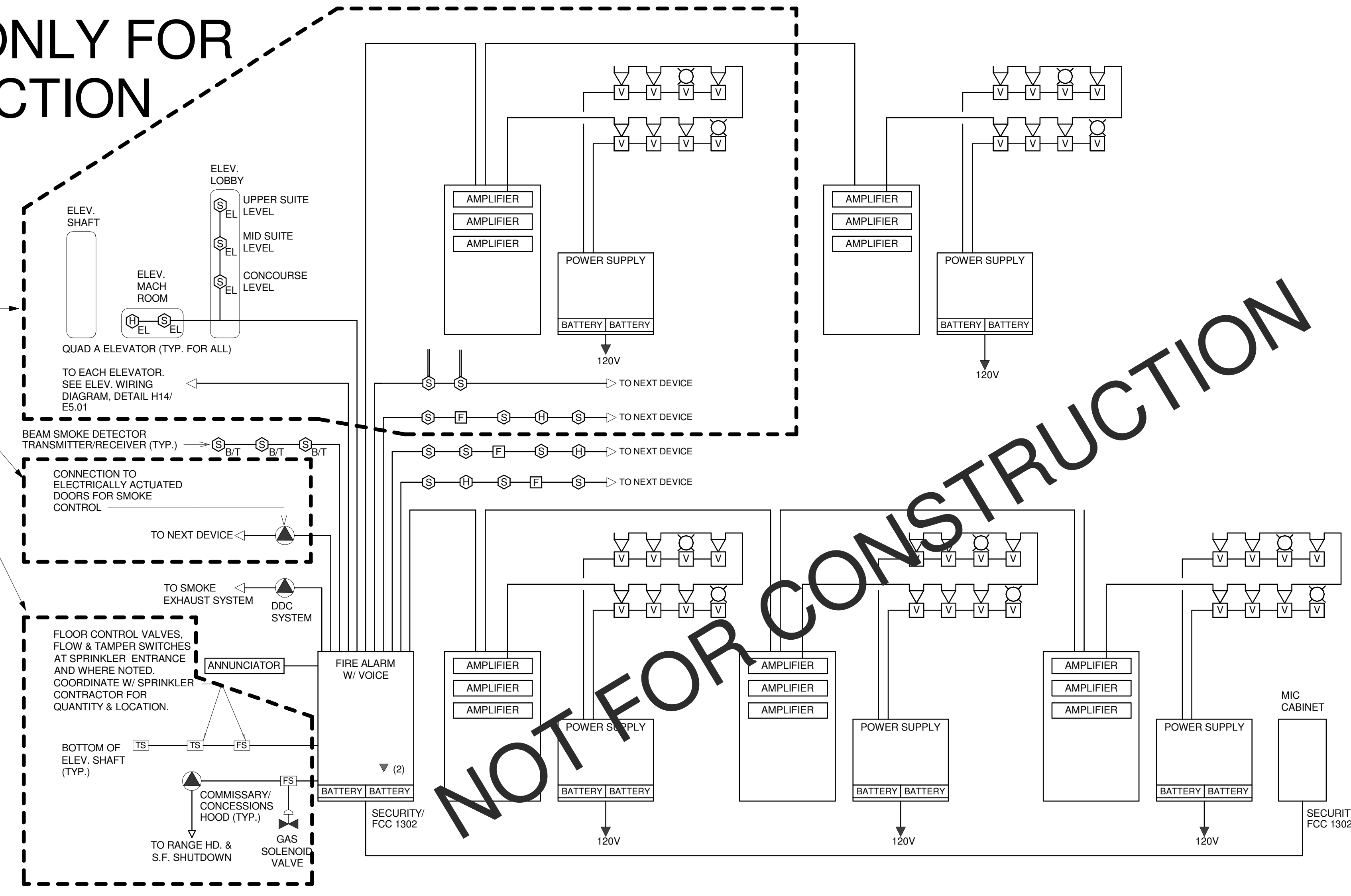
H9 VIDEO SURVEILLANCE SYSTEM WIRING DIAGRAM NOT TO SCALE



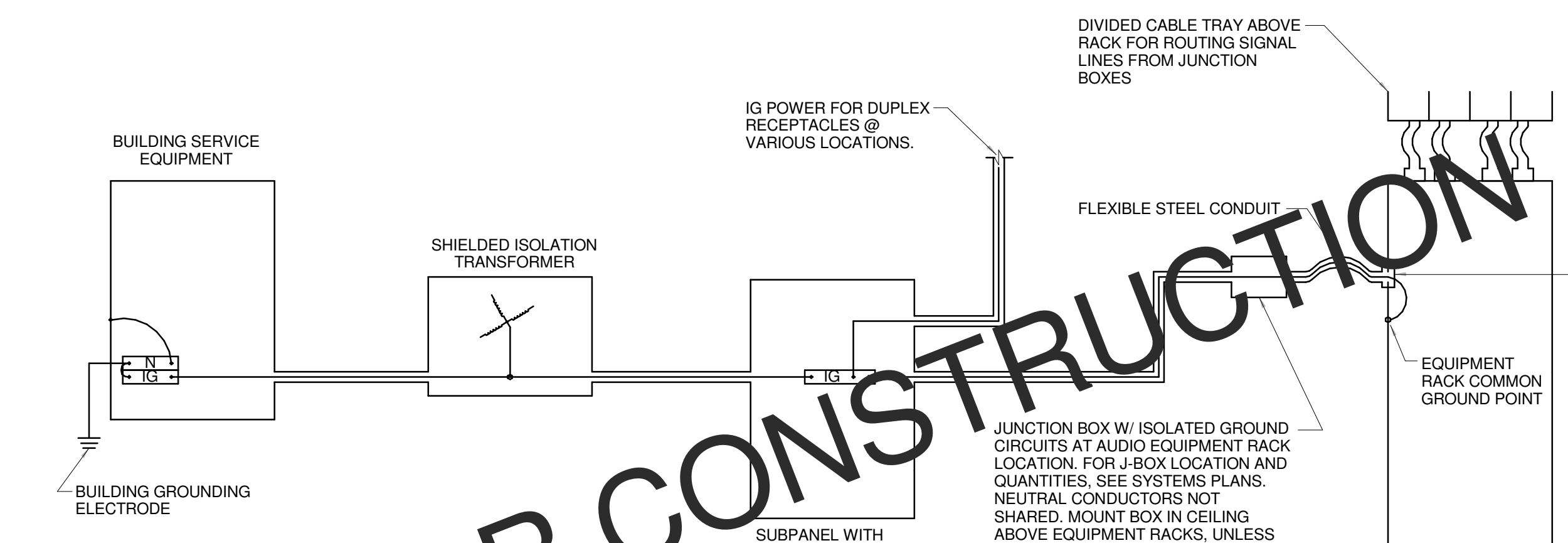
H14 ELEVATOR SHUNT TRIP WIRING DIAGRAM (TYP. FOR ALL ELEVATORS) NOT TO SCALE



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A9 FIRE ALARM SYSTEMS RISER DIAGRAM NOT TO SCALE



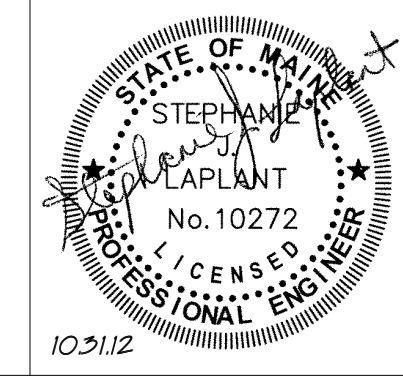
**NOTES:**  
 1. "IG" = ISOLATED GROUND. ISOLATED GROUND CONDUCTORS SHALL BE INSULATED. ISOLATED GROUP SYSTEM SHALL HAVE NO CONTACT WHATSOEVER WITH METAL CONDUIT OR RACEWAYS, PANELBOARD ENCLOSURES AND NEUTRAL CONDUCTORS EXCEPT WHERE IG BUS IS BONDED TO NEUTRAL BUS AT BUILDING MAIN SERVICE EQUIPMENT.  
 2. ISOLATED GROUND CONDUCTOR IS USED AS TECHNICAL GROUND. SIZE PER TECHNICAL GROUND CONDUCTOR TABLE OR NEC TABLE 250-122, WHICHEVER REQUIRES LARGER SIZE.  
 3. CONDUCTORS AT BUILDING SERVICE EQUIPMENT CONNECTING IG BUS TO NEUTRAL AND NEUTRAL TO BUILDING GROUNDING ELECTRODE SHALL BE NO SMALLER THAN LARGEST IG CONDUCTOR.  
 4. WIRING PROVISIONS SHOWN FOR SUBPANELS ARE TYPICAL FOR SUBPANELS.  
 5. USE STEEL CONDUIT/RACEWAY FOR ALL AUDIO SYSTEM POWER, GROUND, CONTROL AND SIGNAL LINES. EXCEPTION: LOUDSPEAKER LINES, FOR WHICH STEEL, OTHER METAL OR PLASTIC MAY BE USED.  
 6. RUN AUDIO CONDUIT SPACED AT LEAST 12" FROM POWER CONDUIT. WHERE AUDIO AND POWER CONDUIT CROSS, CROSS AT 90 DEGREES.  
 7. AUDIO SYSTEM EQUIPMENT RACK(S), STEEL FLEXIBLE CONDUIT ATTACHED TO RACK(S) VIA INSULATING BUSHING OR PLASTIC NIPPLE, AND GROUND CONDUCTOR WITHIN FLEXIBLE CONDUIT ARE BY DIV. 27 CONTRACTOR. OTHER WORK SHOWN ON THIS DETAIL ARE BY DIV. 26 CONTRACTOR.

3 ISOLATED GROUND POWER DETAIL NOT TO SCALE

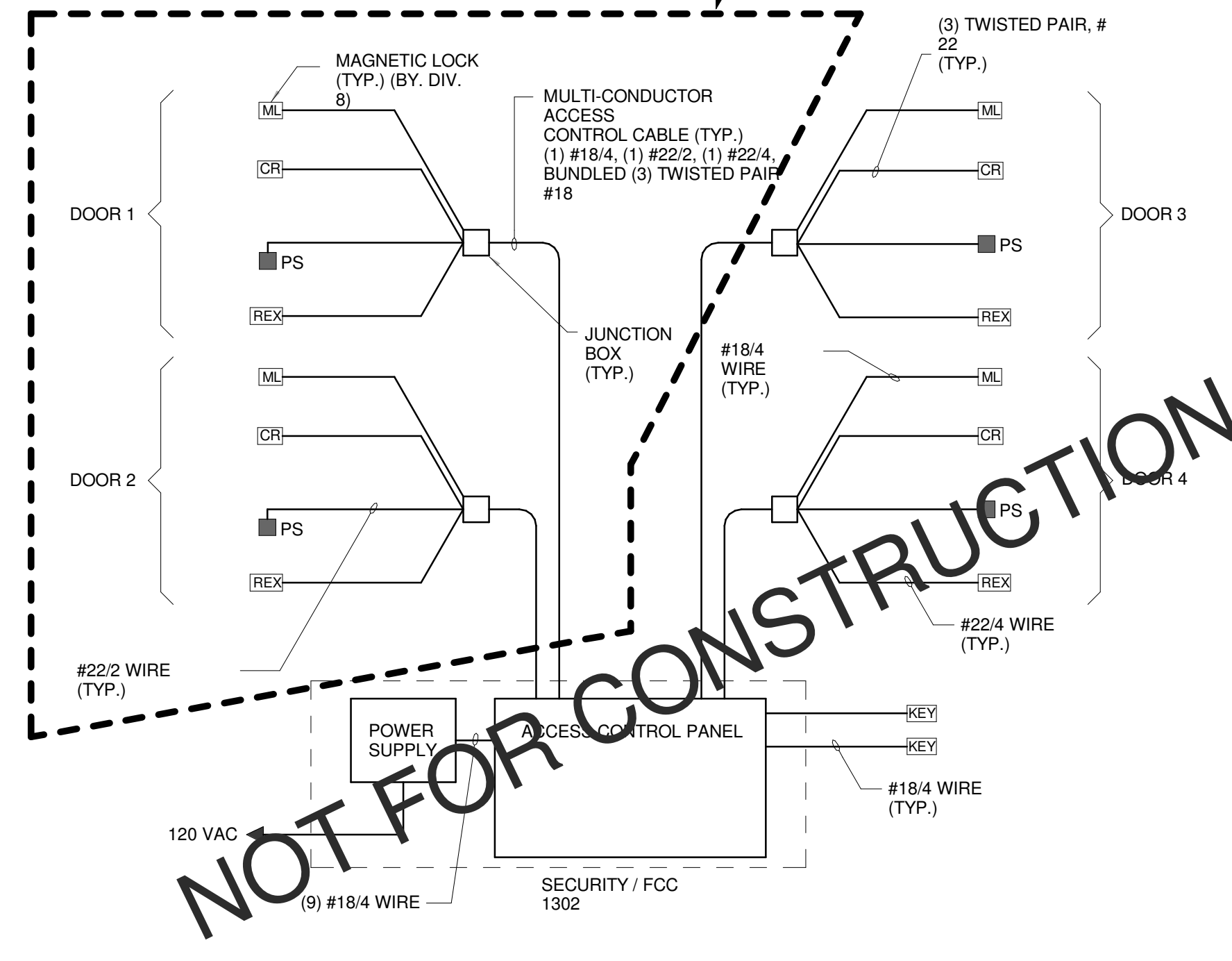
**TECHNICAL GROUND CONDUCTOR SIZE TABLE**

DISTANCE FROM EQUIPMENT RACK COMMON GROUND POINT TO BUILDING GROUNDING ELECTRODE CONNECTION POINT	MIN. COPPER CONDUCTOR SIZE (AWG) (INSUL. WIRE)
60-95 FT	12
95-150 FT	10
150-225 FT	8
225-385 FT	6
385-475 FT	4
475-590 FT	3
590-770 FT	2
770-910 FT	1
910-1180 FT	1/0
1180-1500 FT	2/0
1500-1900 FT	3/0
1900-2500 FT	4/0

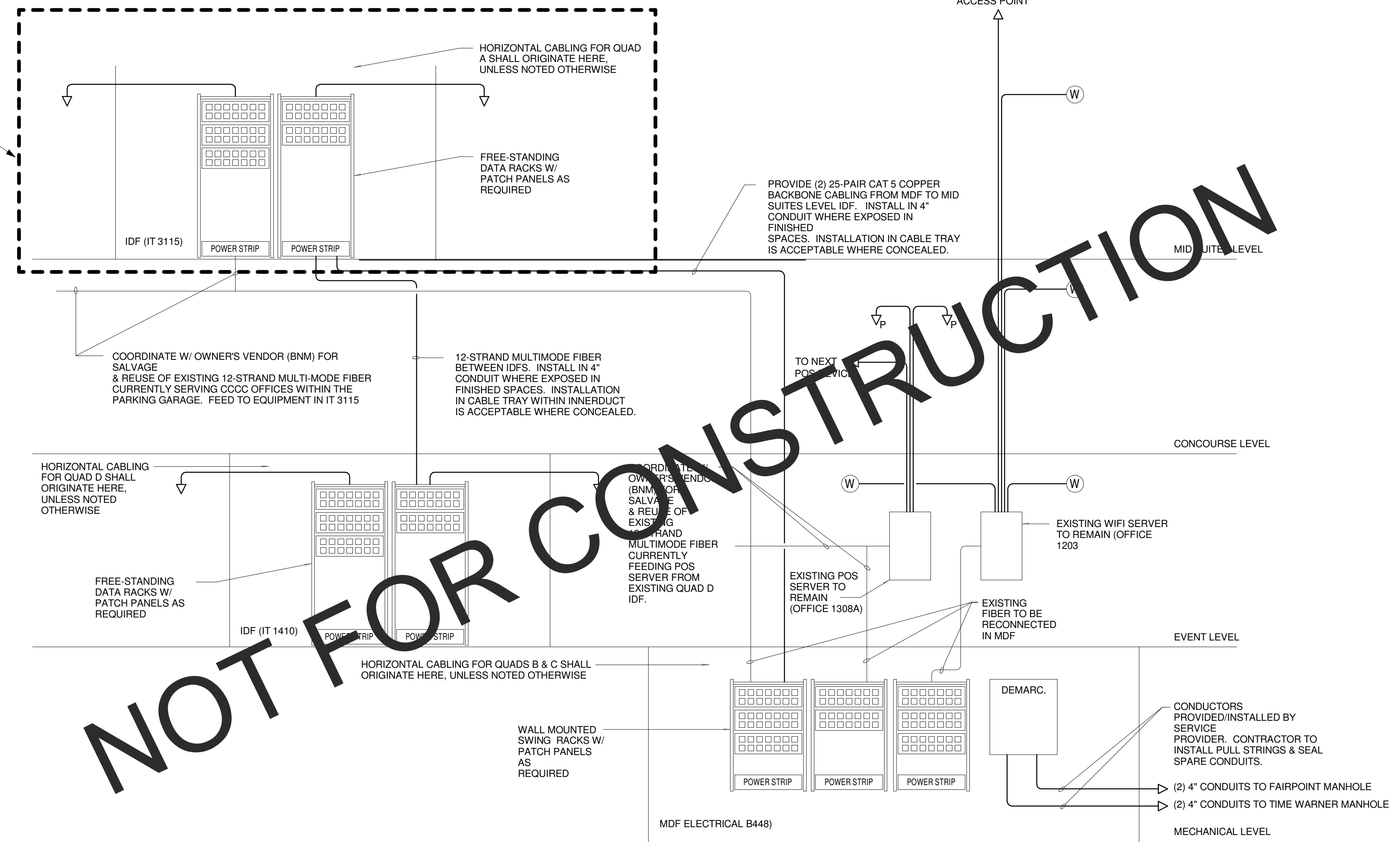
\*USE LARGER SIZE IF/AS REQUIRED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE TABLE 250-122.



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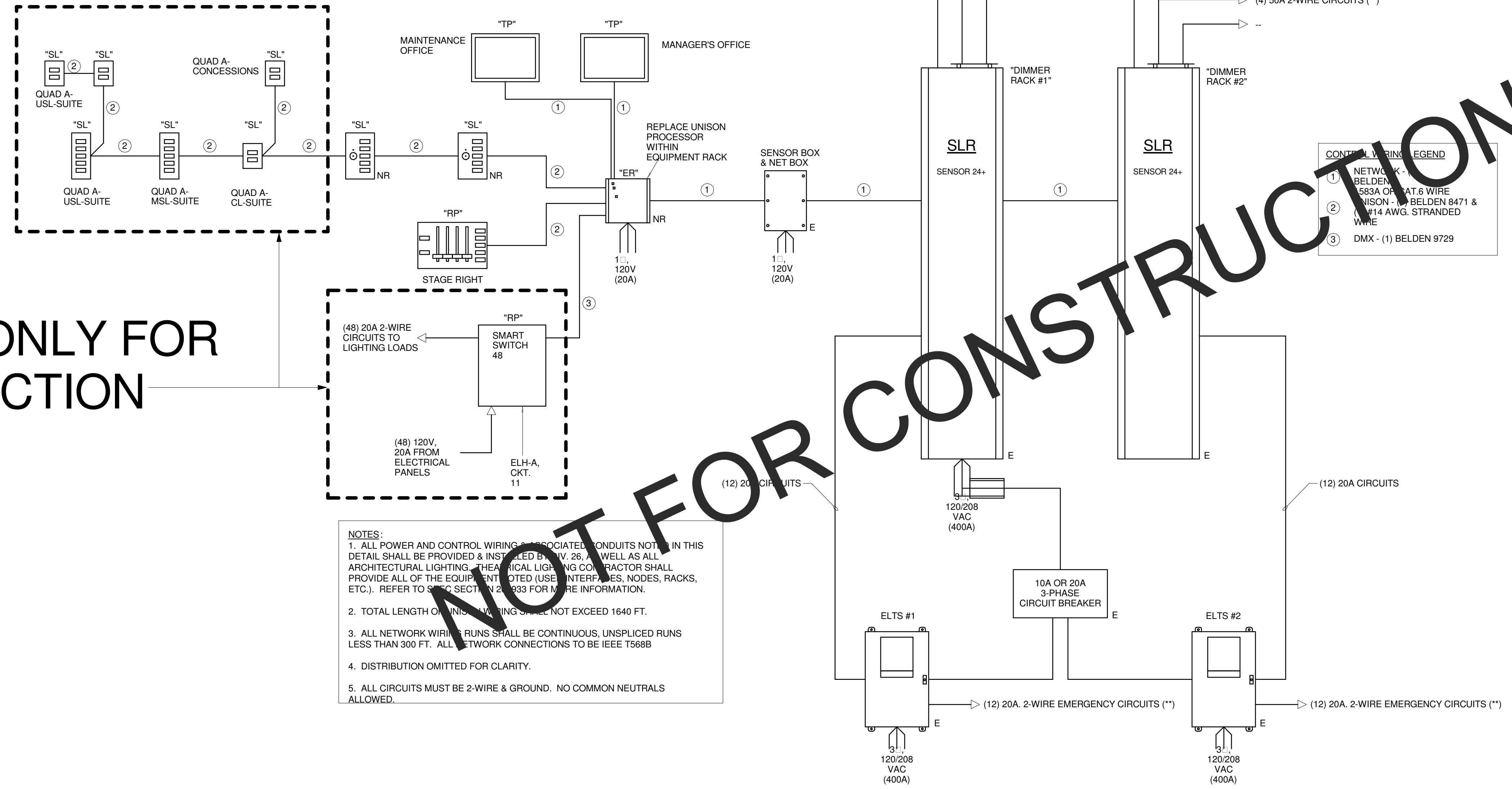


J1 ACCESS CONTROL RISER DIAGRAM  
NOT TO SCALE



J7 TELECOMMUNICATIONS RISER DIAGRAM  
NOT TO SCALE

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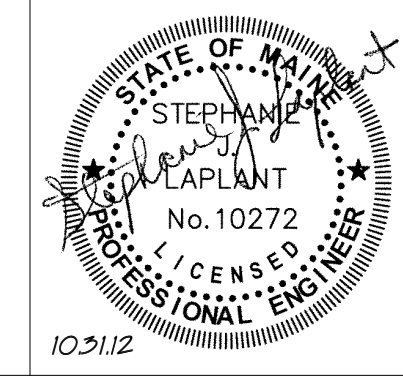


A7 THEATRICAL/HOUSE LIGHTING DIAGRAM  
NOT TO SCALE

NOTES:  
1. ALL POWER AND CONTROL WIRING AND ASSOCIATED CONDUITS NOT SHOWN IN THIS DETAIL SHALL BE PROVIDED & INSTALLED BY V. 26. AS WELL AS ALL ARCHITECTURAL LIGHTING, THEATRICAL LIGHTING CONTROL SYSTEM SHALL PROVIDE ALL OF THE EQUIPMENT NOTED (USE INTERFACES, NODES, RACKS, ETC.). REFER TO SPEC SECTION 27-0333 FOR MORE INFORMATION.  
2. TOTAL LENGTH OF NETWORK WIRING SHALL NOT EXCEED 1640 FT.  
3. ALL NETWORK WIRING RUNS SHALL BE CONTINUOUS. UNSPLICED RUNS LESS THAN 500 FT. ALL NETWORK CONNECTIONS TO BE IEEE T568B  
4. DISTRIBUTION OMITTED FOR CLARITY.  
5. ALL CIRCUITS MUST BE 2-WIRE & GROUND. NO COMMON NEUTRALS ALLOWED.

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CUMBERLAND COUNTY CIVIC CENTER RENOVATION

PROJECT: PORTLAND, ME  
ELECTRICAL DETAILS

SHEET TITLE	WBRC CAD FILE: C:\Users\jml\Documents\375700 - CCCC Electrical_1.jye.mahar.rvt
PROJECT No.	375700
SCALE	1/4" = 1'-0"
PROJECT MANAGER	JRB
DRAWN BY	KRM
CHECKED BY	SL
SHEET No.	E5.03

NEW PANEL		LHC-A										LOCATION: ELEC 3114	
VOLTAGE: 277/480V		PHASES: 3			WIRE: 4			TYPE:				MOUNTING: SURFACE	
SERVICE		KW	BRKR	NOTE	NO	PHASE	NO	NOTE	BRKR	KW	SERVICE		
600A MCB		2.9			1	A	2				SPARE		
AIR HANDLING UNIT AHU-5		2.9	3P20		3	B	4		3P20		SPARE		
		2.9			5	C	6				SPARE		
EXHAUST FAN EF-1		0.4			7	A	8			0.4	EXHAUST FAN EF-2		
		0.4	3P15		9	B	10		3P15	0.4	EXHAUST FAN EF-2		
		0.4			11	C	12			0.4	EXHAUST FAN EF-2		
SPACE					13	A	14				SPACE		
					15	B	16				SPACE		
					17	C	18				SPACE		
SPACE					19	A	20				SPACE		
					21	B	22				SPACE		
					23	C	24				SPACE		
SPACE					25	A	26				SPACE		
					27	B	28				SPACE		
					29	C	30				SPACE		
PANEL GPL-A		14.2			31	A	32				SPACE		
		14.2	3P225		33	B	34				SPACE		
		14.2			35	C	36				SPACE		
PANEL PLC-A VIA XFMR DT-2A		0.0			37	A	38			25.5	PANEL CPLC-A VIA XFMR DT-1A		
		0.0	3P150		39	B	40		3P200	25.5	PANEL CPLC-A VIA XFMR DT-1A		
		0.0			41	C	42			25.5	PANEL CPLC-A VIA XFMR DT-1A		

NEW PANEL		CPLC-A										LOCATION: PREP 2104	
VOLTAGE: 120/208V		PHASES: 3			WIRE: 4			TYPE:				MOUNTING: FLUSH	
SERVICE		KW	BRKR	NOTE	NO	PHASE	NO	NOTE	BRKR	KW	SERVICE		
400A MCB					1	A	2				UNDER-COUNTER FREEZER (378)		
REACH-IN FREEZER (351)		1.4	1P20		3	B	4		1P20	1.4	SODA SYSTEM (354)		
REC - DESK (352)		0.2			5	C	6			0.4	REC - BACK COUNTER		
REFRIGERATOR (379)		1.2	1P20		7	A	8		1P20	1.7	SANDWICH SLIDE (382) #1		
REFRIGERATED BASE TABLE (368)		1.0	1P20		9	B	10		1P20	0.8	REC - GRILL PREP		
WORK TOP FREEZER (369)		1.4	1P20	SHUNT	11	C	12		1P20	1.2	REFRIGERATOR (379)		
SPARE					13	A	14			1.9	HEATED DRAWERS #1 & 2 (396)		
HOOD ANSUL SYSTEM					15	B	16		1P20		POINT OF SALE EQUIP. #1 & 2 (397)		
FRYER BATTERY #1 (374)		1.4	1P20	SHUNT	17	C	18		1P20	1.7	SANDWICH SLIDE #2 (382)		
REFRIGERATED BASE (376)		1.0	1P20	SHUNT	19	A	20		1P20	1.9	HEATED DRAWERS #3 & 4 (396)		
FRYER BATTERY #2 (374)		1.4	1P20	SHUNT	21	B	22		1P20	1.8	SODA DISPENSER #2 (394)		
SODA DISPENSER #1 (394)		1.8	1P20		23	C	24		1P20		SPARE		
POINT OF SALE EQUIP. #3 AND 4 (397)					25	A	26		1P20		SPARE		
SPARE					27	B	28		1P20		SPARE		
SPARE					29	C	30		1P20		SPARE		
SPARE					31	A	32		1P20		SPARE		
SPARE					33	B	34		1P20		SPARE		
SPARE					35	C	36		1P20		SPARE		
		2.8			37	A	38			14.3	PANEL CPLC-A2		
PANEL CPLC-A1		2.8	3P70		39	B	40			14.3	PANEL CPLC-A2		
		2.8			41	C	42			14.3	PANEL CPLC-A2		

NEW PANEL		ELH-A										LIFE SAFETY	
VOLTAGE: 277/480V		PHASES: 3			WIRE: 4			TYPE:				LOCATION: ELEC 3114	
SERVICE		KW	BRKR	NOTE	NO	PHASE	NO	NOTE	BRKR	KW	SERVICE		
100A MCB					1	A	2				LITG-MID SUITE LEVEL-ELEC, IT, LOBBY		
LITG-CONCOURSE LEVEL-MENS, WOMENS		0.6	1P20		3	B	4		1P20	0.1	LITG-CONCESSION LOBBY		
		0.9			5	C	6		1P20		LITG-WEST TICKET LOBBY		
SMOKE EXHAUST FAN SEF-3		0.9	3P20		7	A	8		1P20		LITG-EXTERIOR BUILDING MOUNTED		
		0.9			9	B	10		1P20	1.6	LITG-NORTHWEST ENTRY LOBBY		
LITG-UPPER SUITE LEVEL - LOBBY, LOUNGE		0.3	1P20		11	C	12		1P20	0.4	LITG-NORTHWEST CANOPY		
LITG-UPPER SUITE LEVEL - LOBBY, LOUNGE		1.0	1P20		13	A	14		1P20		SPARE		
LITG-UPPER SUITE LEVEL - LOBBY, LOUNGE					15	B	16		1P20		SPARE		
SPARE					17	C	18		1P20		SPARE		
SPARE					19	A	20		1P20		SPARE		
SPARE					21	B	22		1P20		SPARE		
SPARE					23	C	24		1P20		SPARE		
SPARE					25	A	26				SPACE		
SPARE					27	B	28				SPACE		
SPARE					29	C	30				SPACE		
					31	A	32				SPACE		
SPACE					33	B	34				SPACE		
					35	C	36				SPACE		
					37	A	38				SPACE		
SPACE					39	B	40				SPACE		
					41	C	42				SPACE		

NEW PANEL		GPLN-A										LOCATION: ELEC 3114	
VOLTAGE: 120/208V		PHASES: 3			WIRE: 4			TYPE:				MOUNTING: SURFACE	
SERVICE		KW	BRKR	NOTE	NO	PHASE	NO	NOTE	BRKR	KW	SERVICE		
150A MCB					1	A	2				REC-JAN, MENS, WOMENS, CONCOURSE		
CONCOURSE HANDS-FREE DEVICES		0.5	1P20		3	B	4		1P20	1.4	ACCU-1 / EVU-1		
HAND DRYERS-WOMENS 2106		1.5	1P20		5	C	6		2P20	1.5	ELEVATOR PIT LIGHT & REC		
HAND DRYERS-WOMENS 2106		1.5	1P20		7	A	8		1P20	0.2	LITG-CONCESSIONS COUNTER		
HAND DRYERS-WOMENS 2106		1.5	1P20		9	B	10		1P20	0.2	LITG-SUITE SCONCES		
HAND DRYERS-WOMENS 2106		1.5	1P20		11	C	12		1P20	1.0	ELEVATOR SUMP PUMP		
HAND DRYERS-MENS 2102		1.5	1P20		13	A	14		1P20	0.2	ELECTRONIC TRAP PRIMERS		
HAND DRYERS-MENS 2102		1.5	1P20		15	B	16		1P20	1.2	REC-EXT. RR. COPY/KITCHENETTE		
HAND DRYERS-MENS 2102		1.5	1P20		17	C	18		1P20	1.6	REC-OFFICE 3104 TO 3108		
HAND DRYERS-MENS 2102		1.5	1P20		19	A	20		1P20	1.6	REC-OFFICE 3104 TO 3110		
MS + US LEVEL HANDS FREE DEVICES		0.2	1P20		21	B	22		1P20	1.6	REC-OFFICE 3109 TO 3113		
DOOR HARDWARE POWER		0.5	1P20		23	C	24		1P20	1.6	REC-OFFICE 3111, 3113 + CORR		
REC-ELEC 114, IT 3115, LOBBY, VEST		0.8	1P20		25	A	26		1P20	1.4	REC-MI SUITE, PANTRY		
REC-IT 3115		0.4	1P20		27	B	28		1P20	0.2	REC-MID LEVEL SUITE TV		
REC-IT 3115		0.4	1P20		29	C	30		1P20		SPARE		
REC-UPPER SUITE, PANTRY, CORR		1.6	1P20		31	A	32		1P20		SPARE		
REC-UPPER SUITE, RR		0.4	1P20		33	B	34		1P20		SPARE		
REC-UPPER SUITE TV		0.2	1P20		35	C	36		1P20		SPARE		
REC-UPPER CORR STORAGE		0.8	1P20		37	A	38			0.0	PANEL GPLN-D		
HVAC CONTROL PANEL		1.0	1P20		39	B	40		3P50	0.0	PANEL GPLN-D		
REC-COPIER, MID SUITES LEVEL		1.0	1P20		41	C	42			0.0	PANEL GPLN-D		

DRY TRANSFORMER SCHEDULE									
TAG	KVA	PHASE	RATED TEMP. RISE	PRIMARY VOLTAGE	PRIMARY FEEDER (COPPER) DESIGNATION	# WIRES/SIZE	CONDUIT	SECONDARY VOLTAGE	NOTES
DT-1A	112.5	3	150	480V	F-DT1A	3 3/0 1 6	2"	208/120V	
DT-2A	75	3	150	480V	F-DT2A	3 1/0 1 6	1 1/2"	208/120V	
DT-3A	45	3	150	480V	F-DT3A	3 2 1 8	1 1/4"	208/120V	WALL MOUNT

1 FEEDERS SIZED FOR COPPER CONDUCTORS. ALUMINUM CONDUCTORS MAY BE UTILIZED + MUST BE SIZED APPROPRIATELY.

SERVICE, DISTRIBUTION FEEDER, AND PANELBOARD SCHEDULE												
PANELBOARD DESCRIPTION			MAINS				SUPPLY FEEDERS				SUB FEED LUGS	NOTES
TAG	DESCRIPTION	MOUNTING	FEED	AMPS	ENTRY	PHASE	WIRE	VOLTS	DESIGNATION	# WIRES	SIZE (COPPER) 1	CONDUIT
LHC-A	DISTRIBUTION PANEL	SURF	TOP	600	MCB	3	4	277/480	F-LHCA	12	4/0	(3) 4"
GPL-A	POWER + LIGHTING PANEL	SURF	TOP	225	MCB	3	4	277/480	F-GPLA	4	4/0	2 1/2"
GPLN-A	POWER + LIGHTING PANEL	SURF	TOP	150	MCB	3	4	120/208	F-GPLNA	4	1/0	2"
PLC-A	POWER + LIGHTING PANEL	SURF	TOP	225	MCB	3	4	120/208	F-PLCA	4	4/0	2 1/2"
CPLC-A	POWER & APPLIANCE PANEL	FLUSH	TOP	400	MCB	3	4	120/208	F-CPLCA	4	500	4"
ELHA	POWER & APPLIANCE PANEL	SURF	TOP	100	MCB	3	4	277/480	F-ELHA	4	1	2 1/2"
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-

1 FEEDERS SIZED FOR COPPER CONDUCTORS. ALUMINUM CONDUCTORS MAY BE UTILIZED + MUST BE SIZED APPROPRIATELY.

NEW PANEL		PLC-A										LOCATION: ELEC 3114	
VOLTAGE: 120/208V		PHASES: 3			WIRE: 4			TYPE:				MOUNTING: SURFACE	
SERVICE		KW	BRKR	NOTE	NO	PHASE	NO	NOTE	BRKR	KW	SERVICE		
225A MCB					1	A	2				SPARE		
EXISTING RELOCATED CIRCUITS			1P20		3	B	4			2P20	SPARE		
EXISTING RELOCATED CIRCUITS			2P20		5	C	6			2P20	SPARE		
EXISTING RELOCATED CIRCUITS			2P20		7	A	8				SPARE		
EXISTING RELOCATED CIRCUITS			2P20		9	B	10			2P20	SPARE		
EXISTING RELOCATED CIRCUITS			2P20		11</								