

ROOF

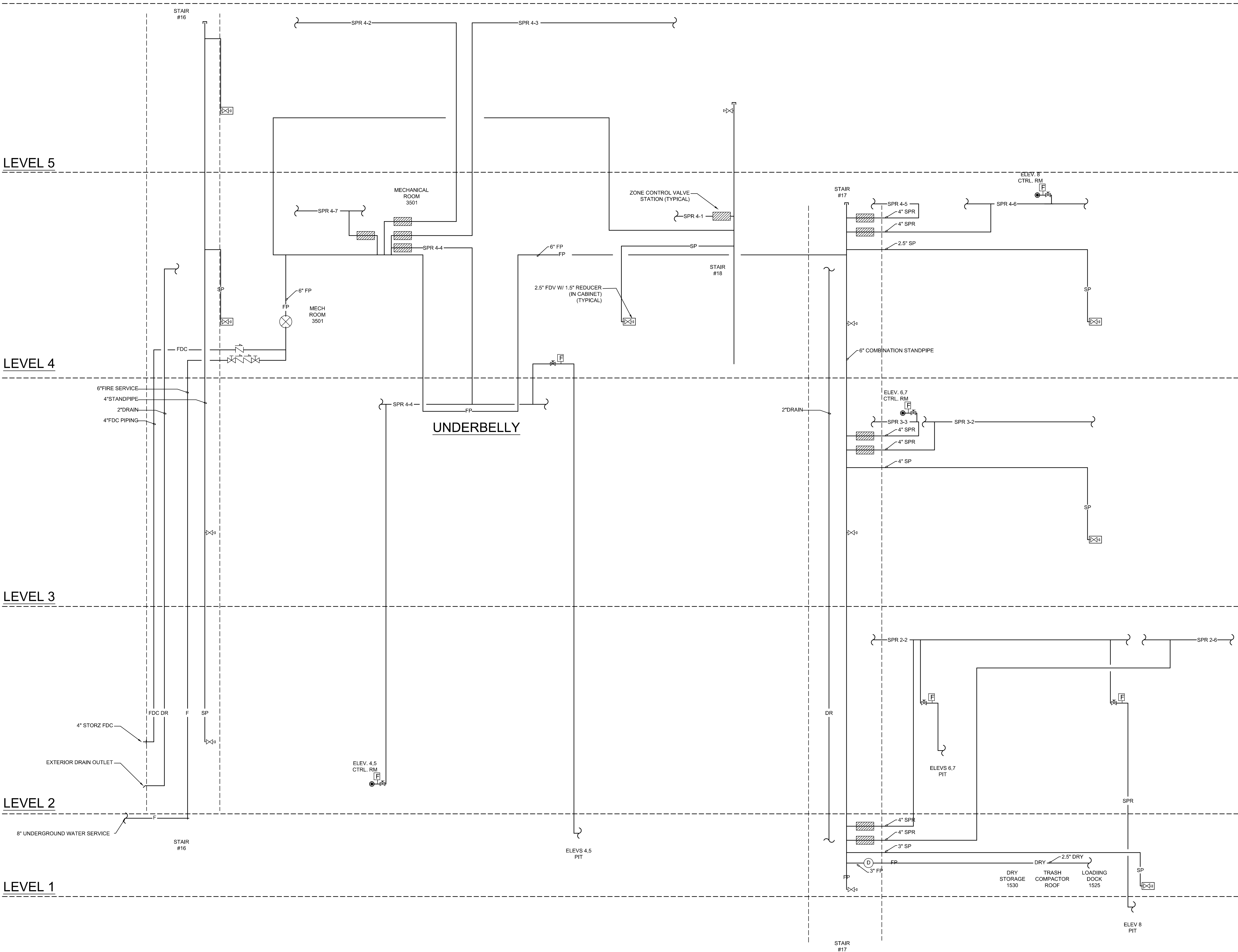
LEVEL 5

LEVEL 4

LEVEL 3

LEVEL 2

LEVEL 1



SHEET NOTES

Portland International
Jetport
1001 Westbrook Street
Portland, Maine 04102

Gensler
2020 K Street, NW
Suite 200
Washington, DC 20006
Telephone 202.721.5200
Facsimile 202.872.8587

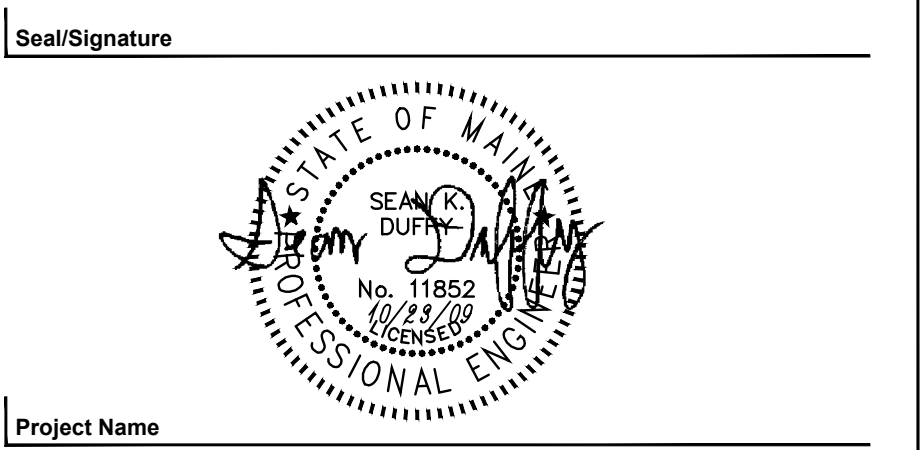
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Issue	Date & Issue Description	By	Check
01	01/23/09	SKD	JLD
02	10/26/09	JLD	SKD

GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES AND GENERAL NOTES.



Project Name
PJM Terminal Expansion

Project Number
08.0395.000

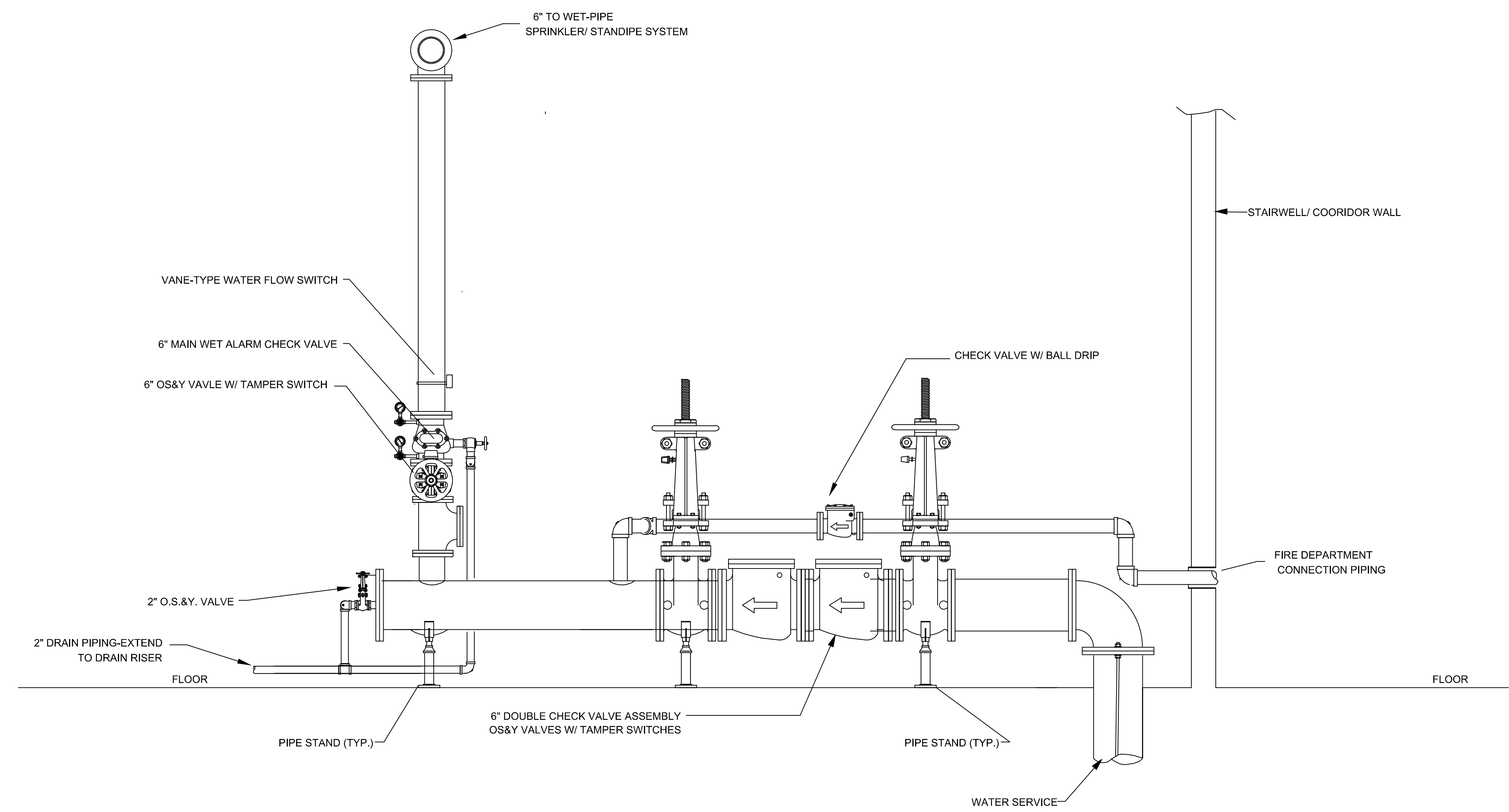
CAD File Name
FP12.04.DWG

Description
FIRE PROTECTION RISER DIAGRAM

Scale
NOT TO SCALE

FP12.04

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DETAIL- MAIN RISER MANIFOLD (MECHANICAL ROOM 3501) **1**
 SCALE: NTS

SHEET NOTES

GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

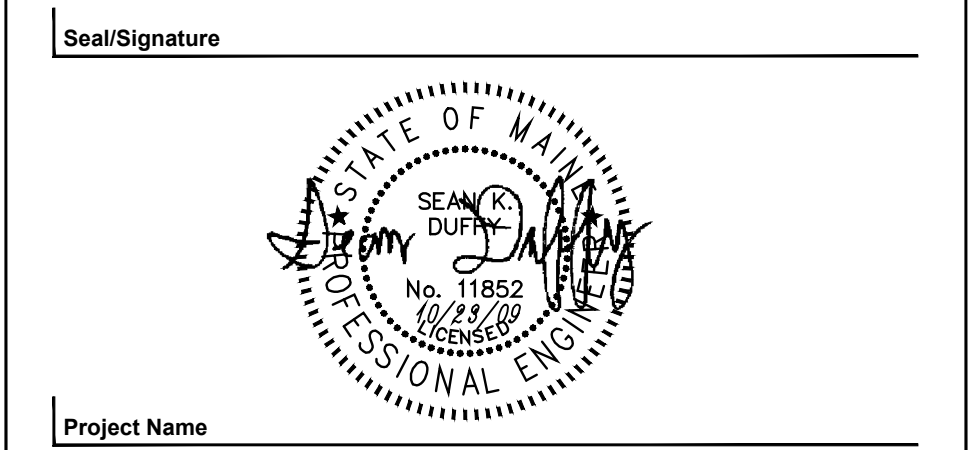
Portland International Jetport
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Issue	Date & Issue Description	By	Check
01	12/03/08	SKD	WMC
02	01/23/09	MHY	JLD
03	10/26/09	RDV	SKD



Project Name
 PWM Terminal Expansion

Project Number
 08.0395.000

CAD File Name
 FP12.03.dwg

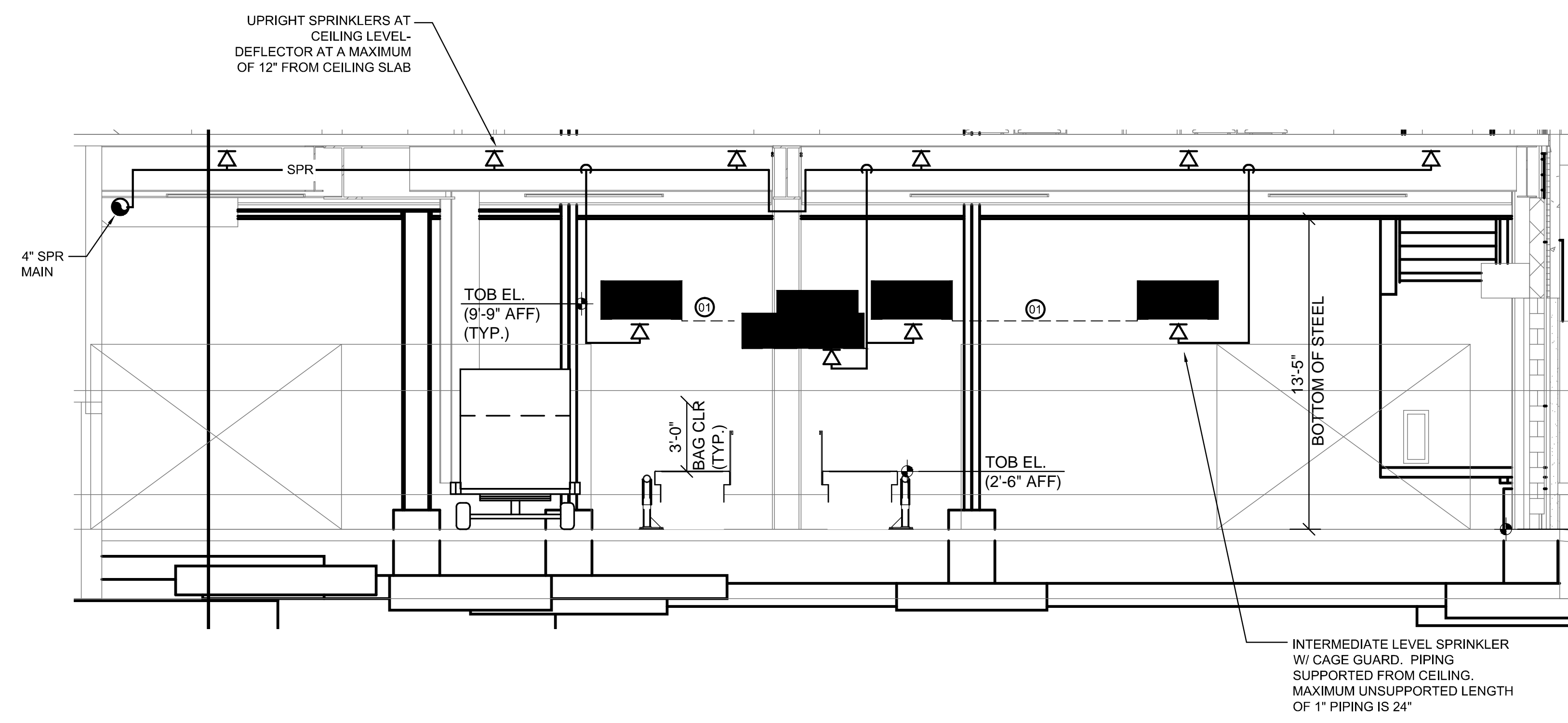
Description
 FIRE PROTECTION DETAILS & DIAGRAMS

Scale
 AS NOTED

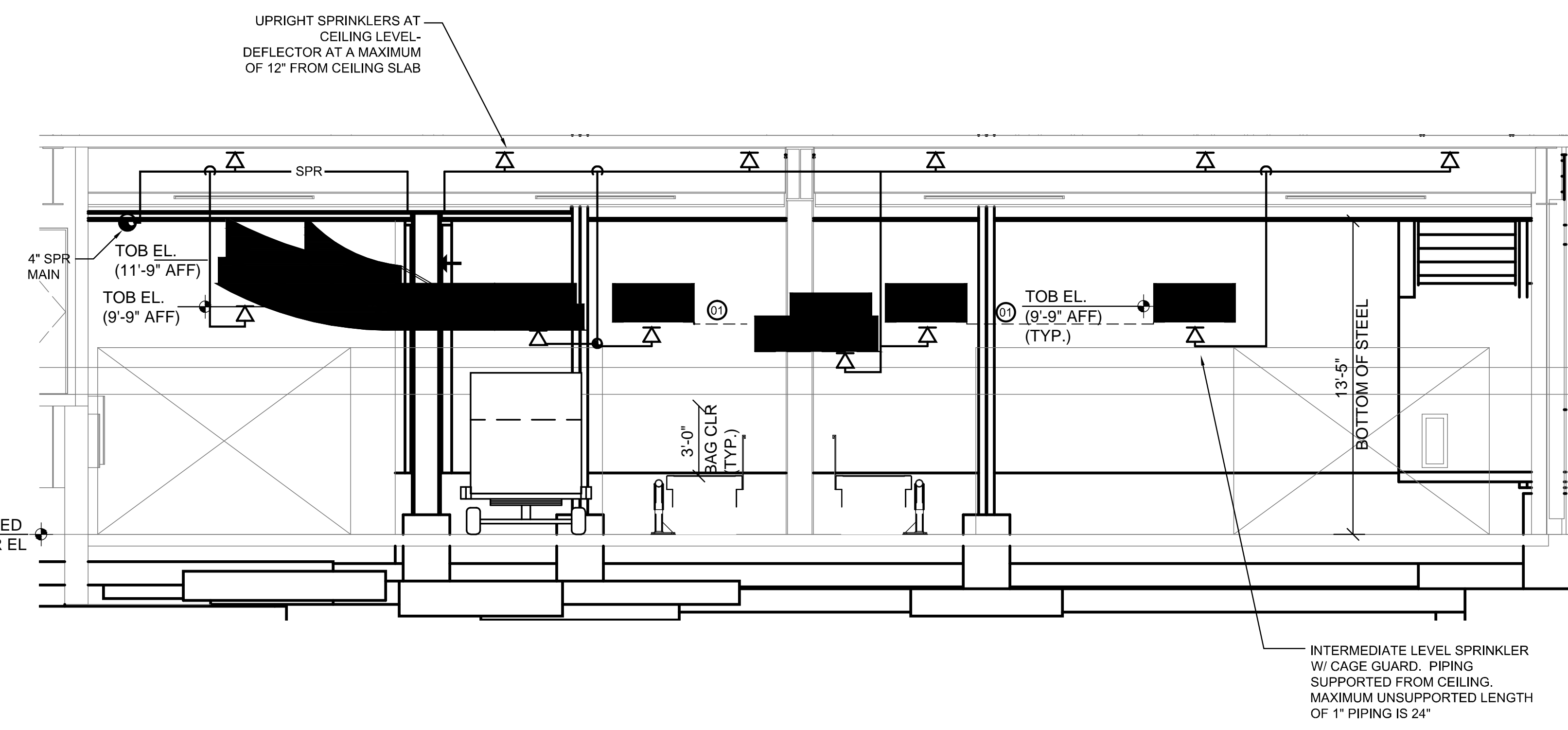
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SHEET NOTES

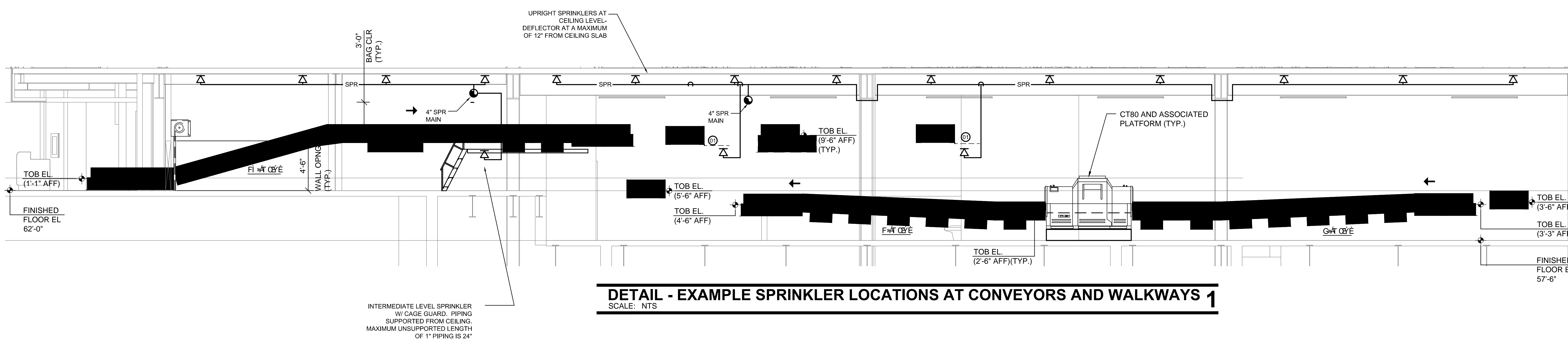
- 01 MIN. CLEARANCE TO UNDER SIDE OF SPRINKLER PIPING 8'-1".
- 02 ALL VERTICAL DROPS FOR UNDER CONVEYOR/PLATFORM/DUCTWORK SPRINKLERS SHALL BE KEPT TIGHT TO CONVEYOR/PLATFORM/DUCTWORK. DROPS SHOWN IN DETAIL ARE FOR REFERENCE ONLY AND SHALL NOT BE USED TO SCALE DISTANCE TO EQUIPMENT.



DETAIL - EXAMPLE SPRINKLER LOCATIONS AT CONVEYORS AND WALKWAYS 2
SCALE: NTS



DETAIL - EXAMPLE SPRINKLER LOCATIONS AT CONVEYORS AND WALKWAYS 3
SCALE: NTS



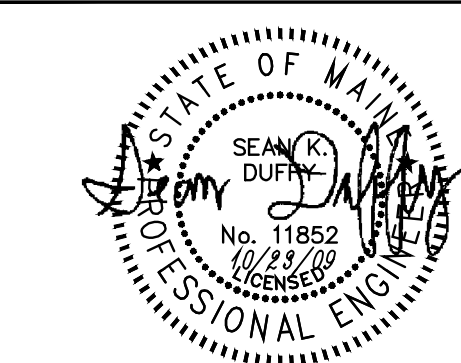
DETAIL - EXAMPLE SPRINKLER LOCATIONS AT CONVEYORS AND WALKWAYS 1
SCALE: NTS

GENERAL NOTES

- A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

Issue	Date & Issue Description	By	Check
01	12/03/08	SKD	WMC
02	01/23/09	MHY	JLD
03	10/26/09	JLD	SKD

Seal/Signature



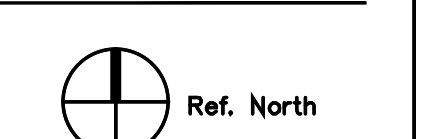
Project Name
PJM Terminal Expansion

Project Number
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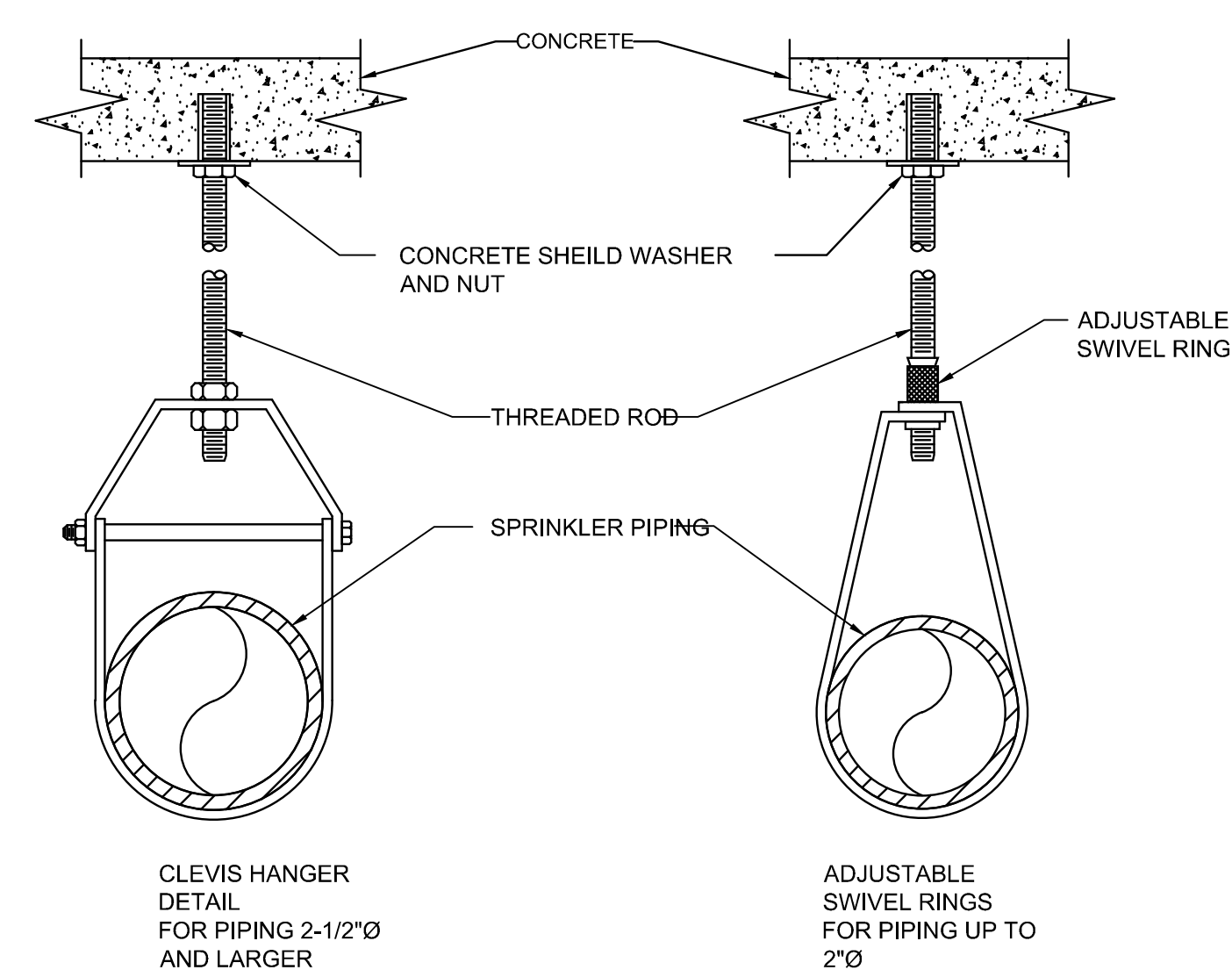
CAD File Name
FP12.02.dwg

Description
FIRE PROTECTION SECTIONS AT BAGGAGE SYSTEMS

Scale



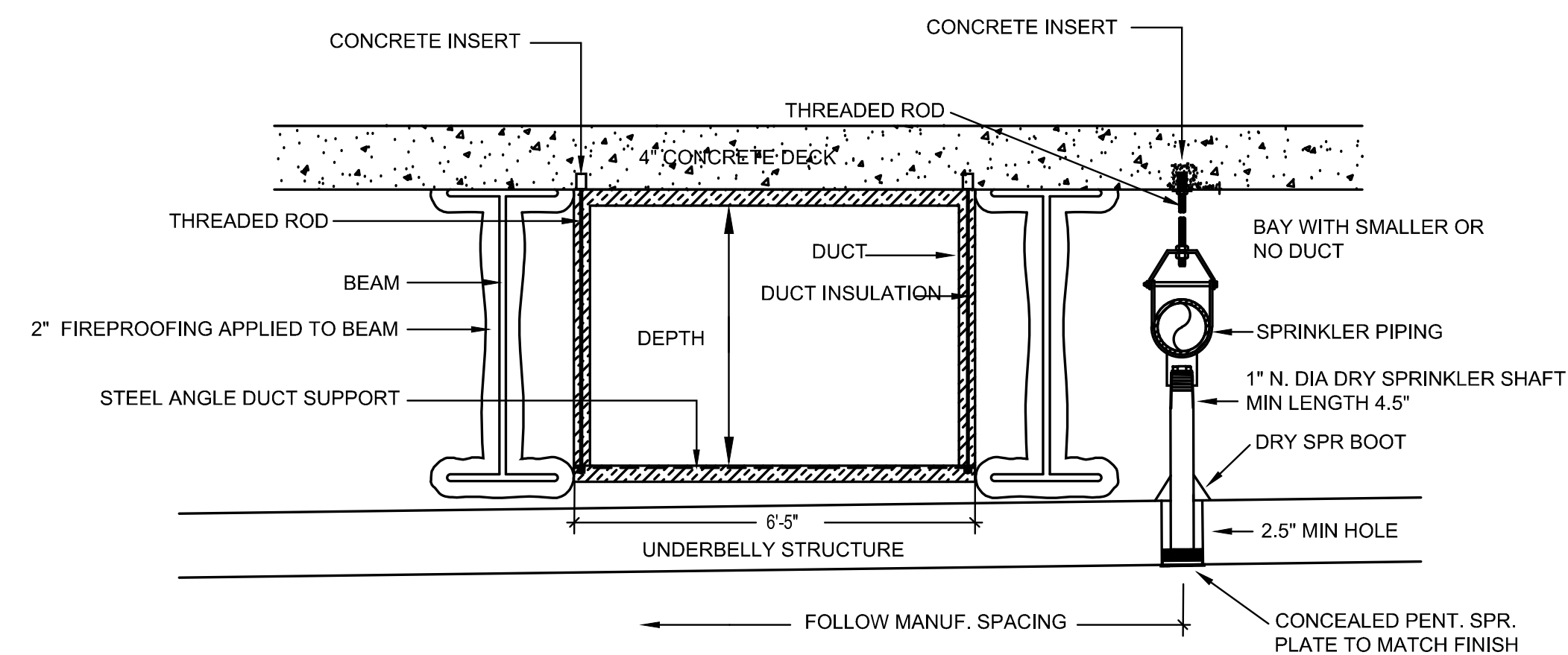
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TYPICAL PIPE HANGER DETAIL

SCALE: NTS

10

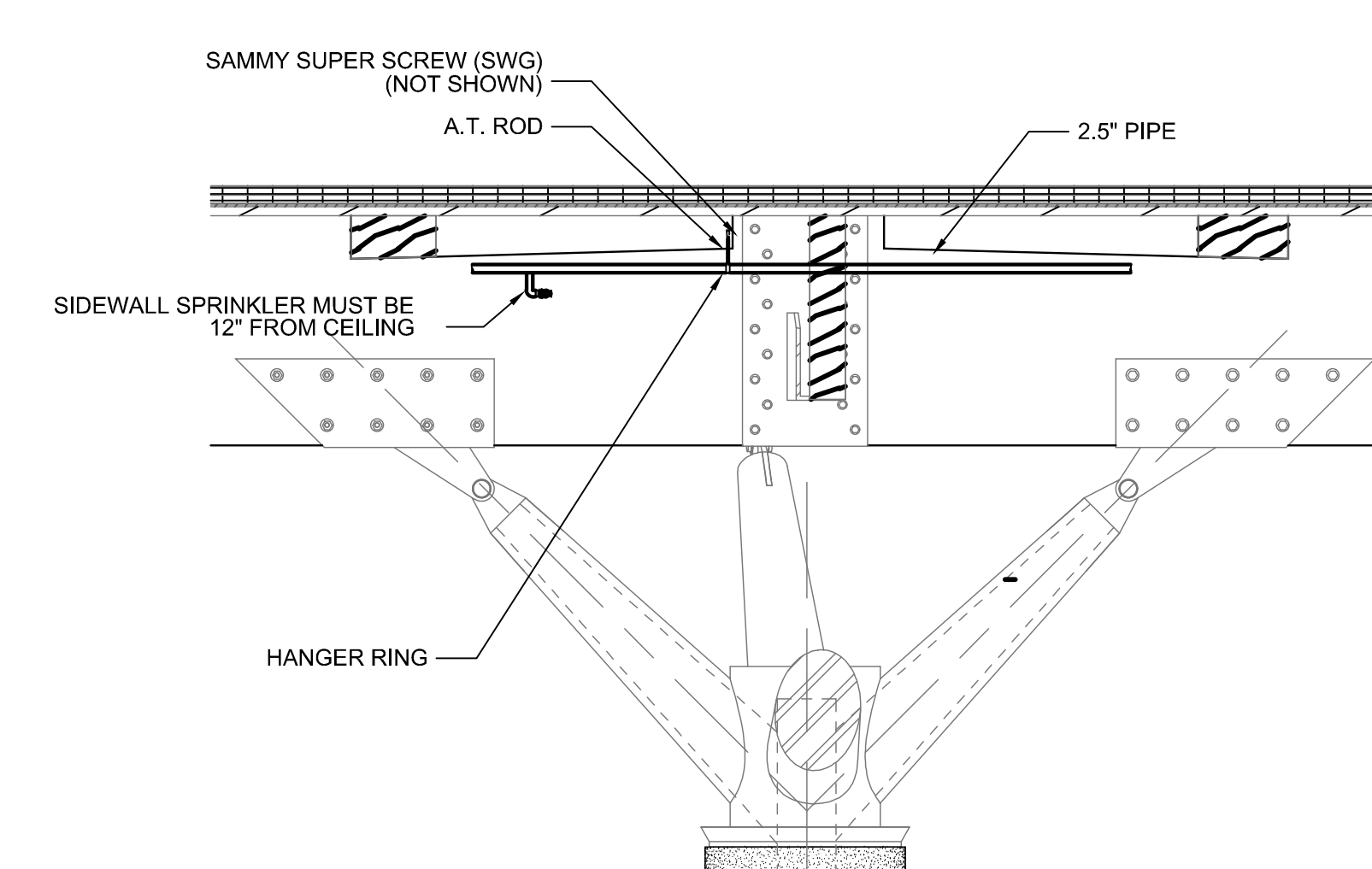


THE UNDERBELLY IS A CONGESTED AREA AND CLEARANCES ARE EXTREMELY TIGHT. FIRE PROTECTION CONTRACTOR SHALL REVIEW ARCHITECTURAL AND STRUCTURAL DRAWINGS AND INSTALLED WORK PRIOR TO EXECUTION OF MECHANICAL WORK. HE SHALL CLOSELY COORDINATE THE INSTALLATION OF PIPING & SPRINKLERS WITH THE STRUCTURE AND THE EQUIPMENT OF OTHER TRADES TO FIT IN THE AVAILABLE SPACE.

- NOTES:
1. FOLLOW MANUFACTURER'S SPECS FOR DRY-TYPE PENDANT INSTALLATION
 2. THE AIR-PRESSURE IN THE CEILING MUST NOT EXCEED THAT OF THE SPACE BELOW PER TYCO DS-C SPECS.
 3. EXERCISE CARE TO AVOID DAMAGING FIRE PROOFING.

DETAIL - PIPE CROSS SECTION AT CONGESTED UNDERBELLY

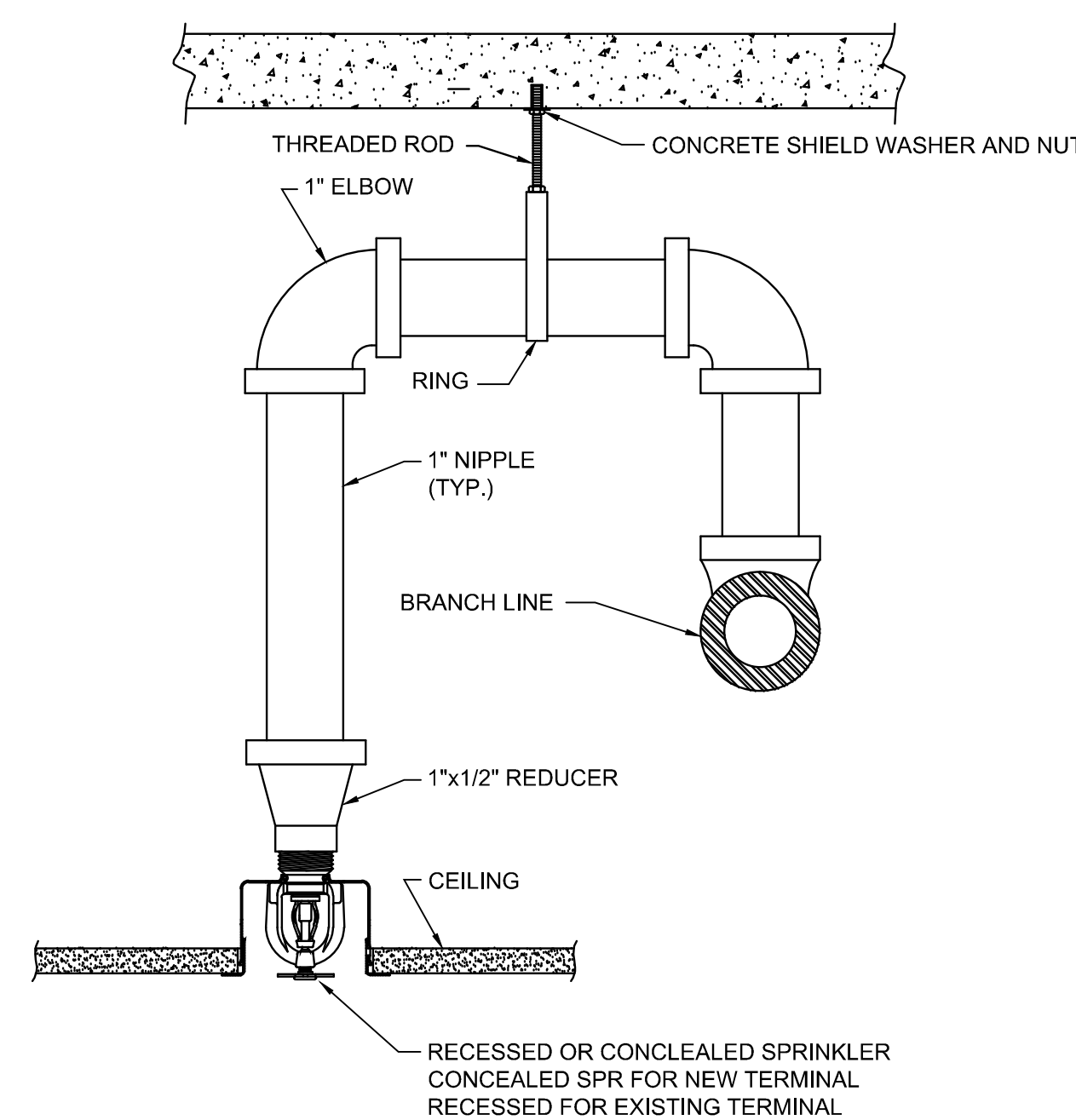
SCALE: NTS



DETAIL - SPRINKLER PIPING AT TREE COLUMN

SCALE: NTS

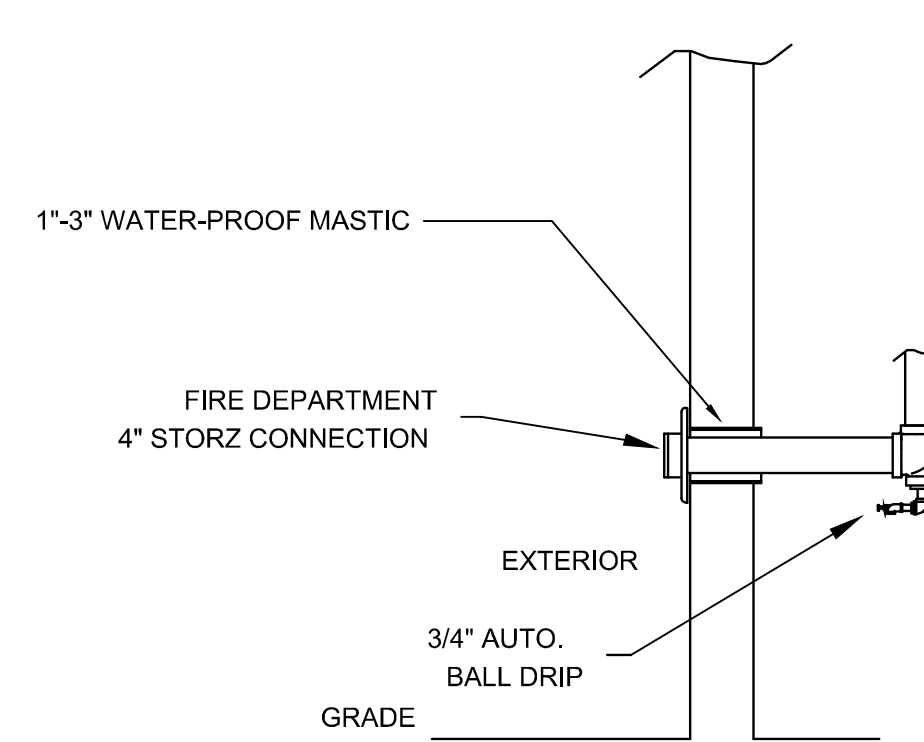
12



TYPICAL "ARM OVER" DETAIL

SCALE: NTS

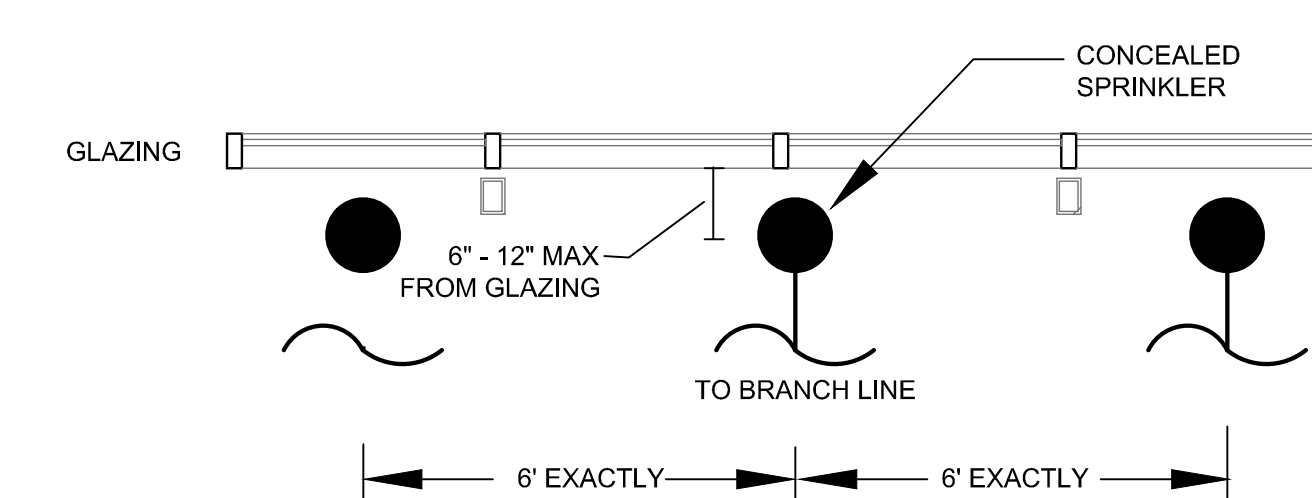
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DETAIL - FIRE DEPARTMENT CONNECTION

SCALE: NTS

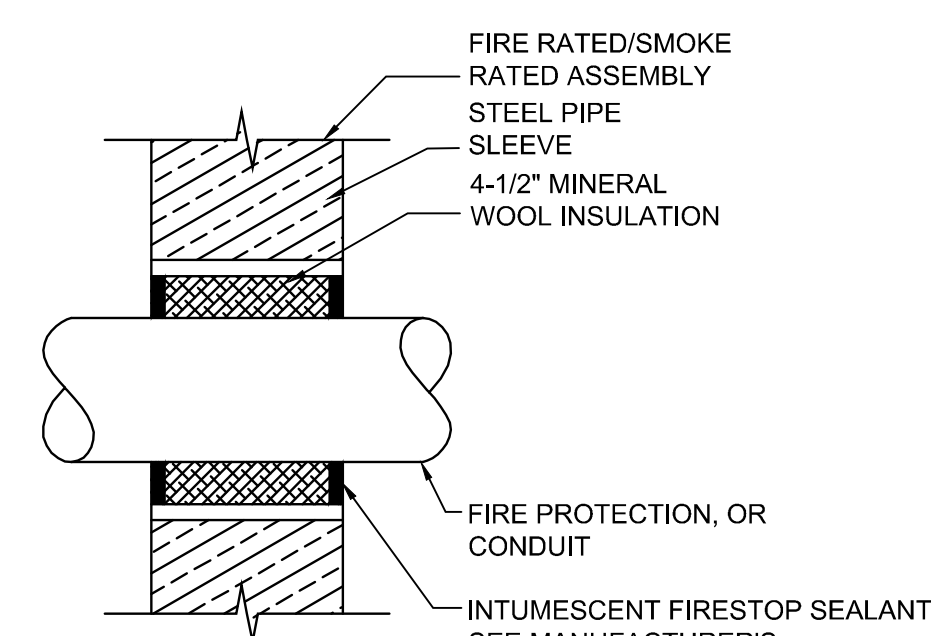
8



DETAIL - SPRINKLERS PROVIDING GLAZING PROTECTION

SCALE: 3/8" = 1"

9



CONDUIT/ PIPE PENETRATIONS THRU FIRE/ SMOKE RATED ASSEMBLY

SCALE: NTS

DETAIL - COMBINATION RISER W/ FDV & ZCVS (STARWELL)

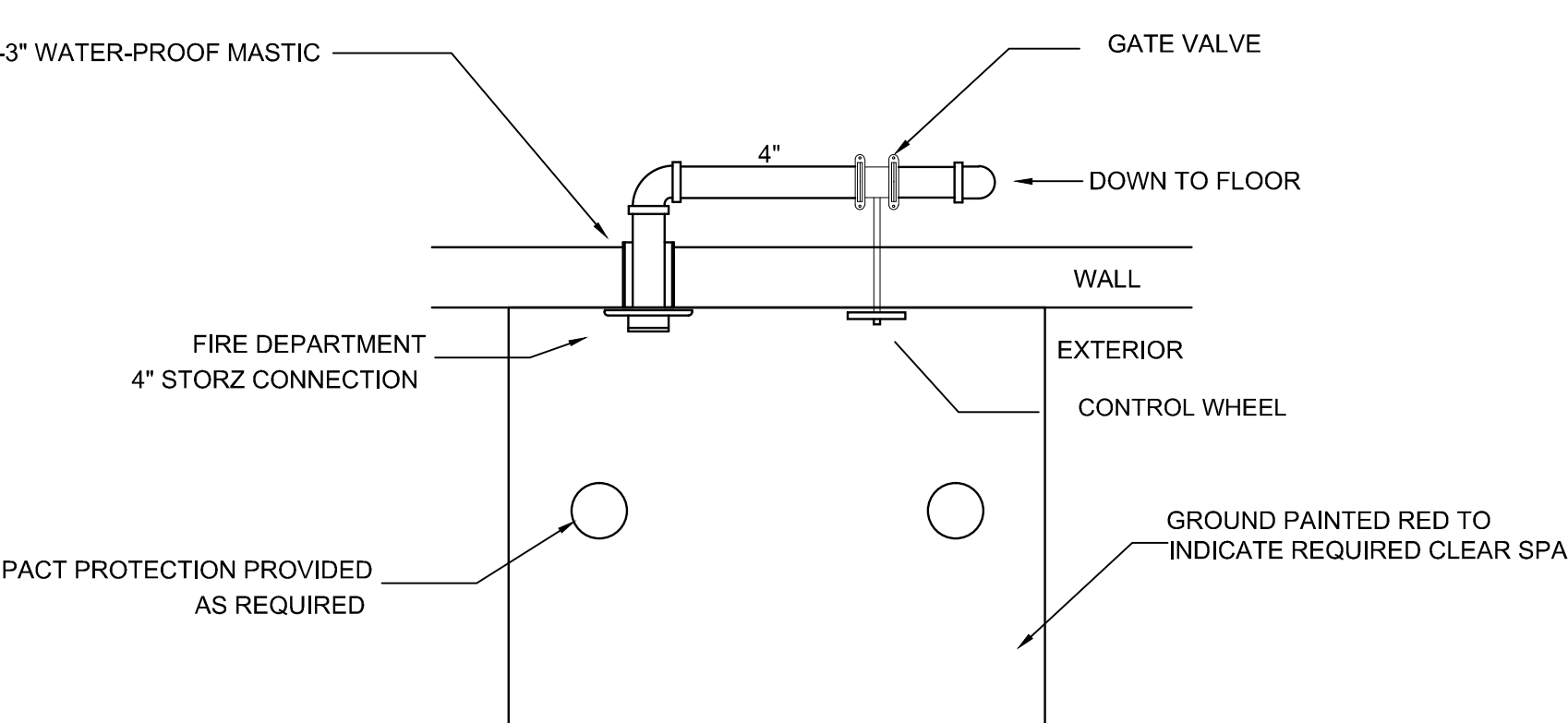
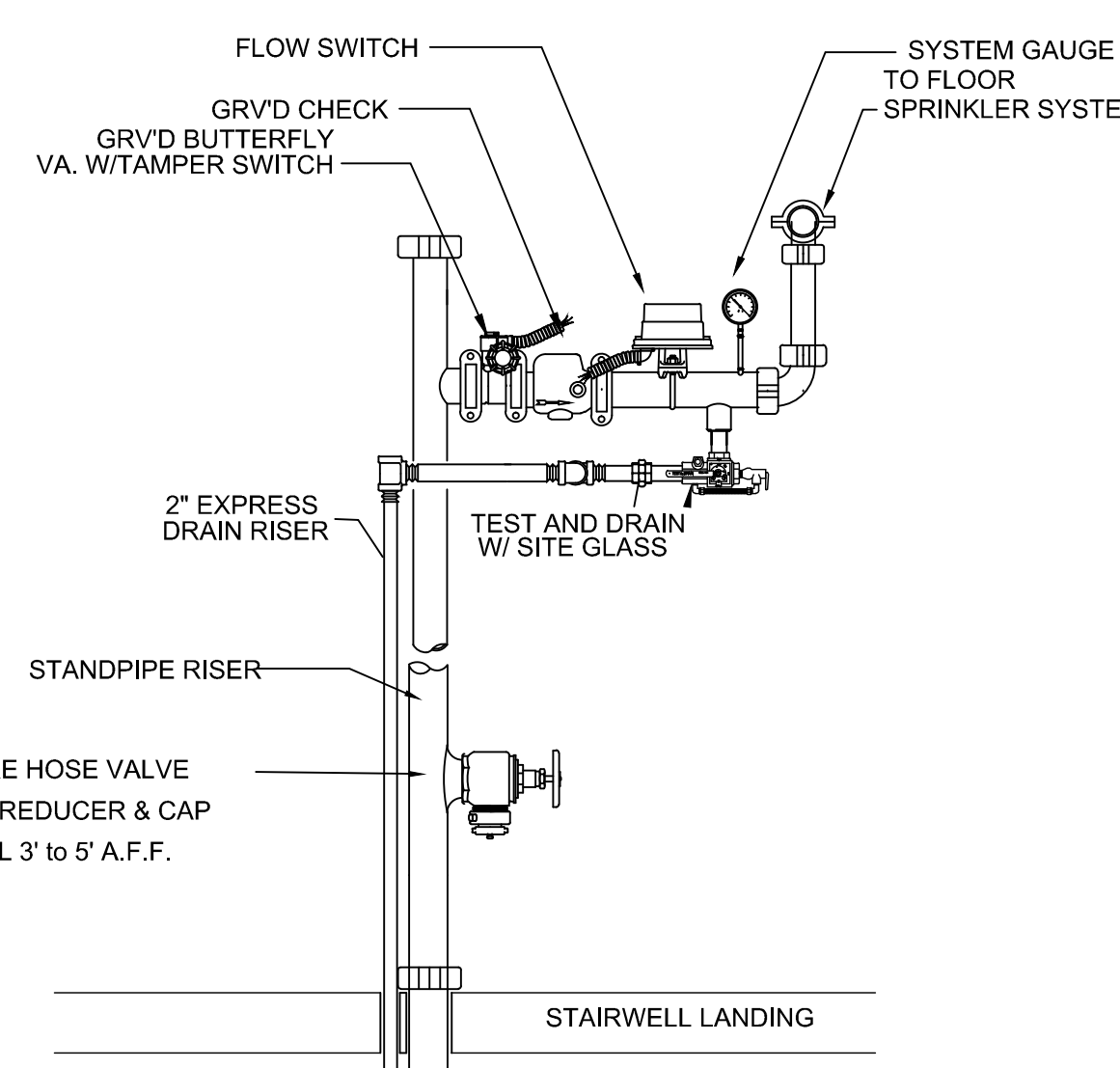
SCALE: NTS

DETAIL - WALL FIRE HYDRANT

SCALE: NTS

6

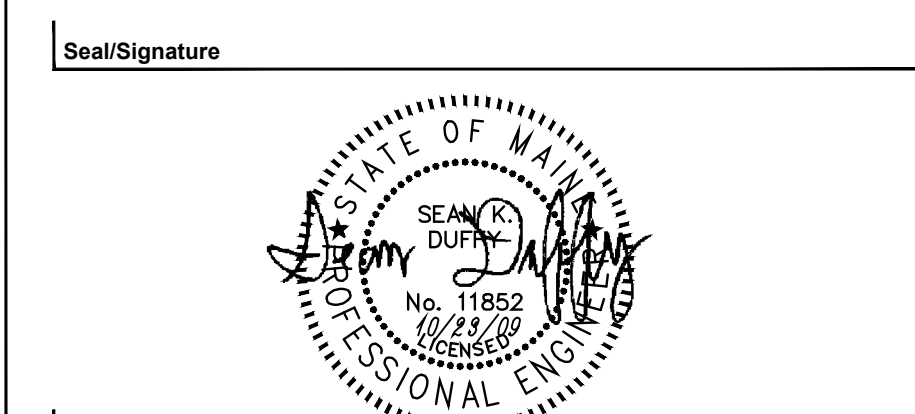
NOTE:
FIRE STOPPING METHOD BASED ON HLT1 UL SYSTEM WL1058. REFER TO MFG LITERATURE FOR SPECIFIC PRODUCT LIMITATIONS. SUBSTITUTE OTHER UL APPROVED FIRE STOPPING METHODS, IF NECESSARY, TO MEET REQUIREMENTS OF INSTALLATION



GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

Issue	Date & Issue Description	By	Check
01	12/03/08	SRD	WMC
02	01/23/09	MHY	JLD
03	10/26/09	RDV	JLD



Project Name
PJM Terminal Expansion

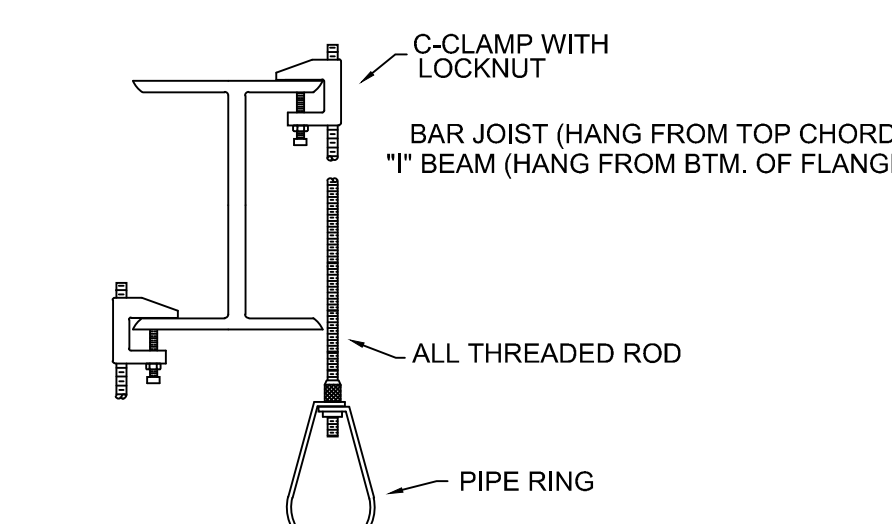
Project Number
08.0395.000

CAD File Name
FP12.01.dwg

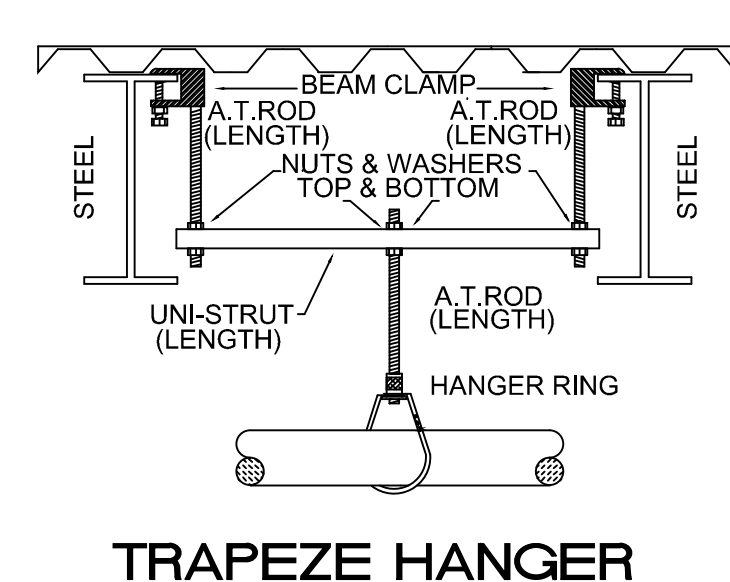
Description
FIRE PROTECTION DETAILS

Scale
AS NOTED

FP12.01



C-CLAMP HANGER



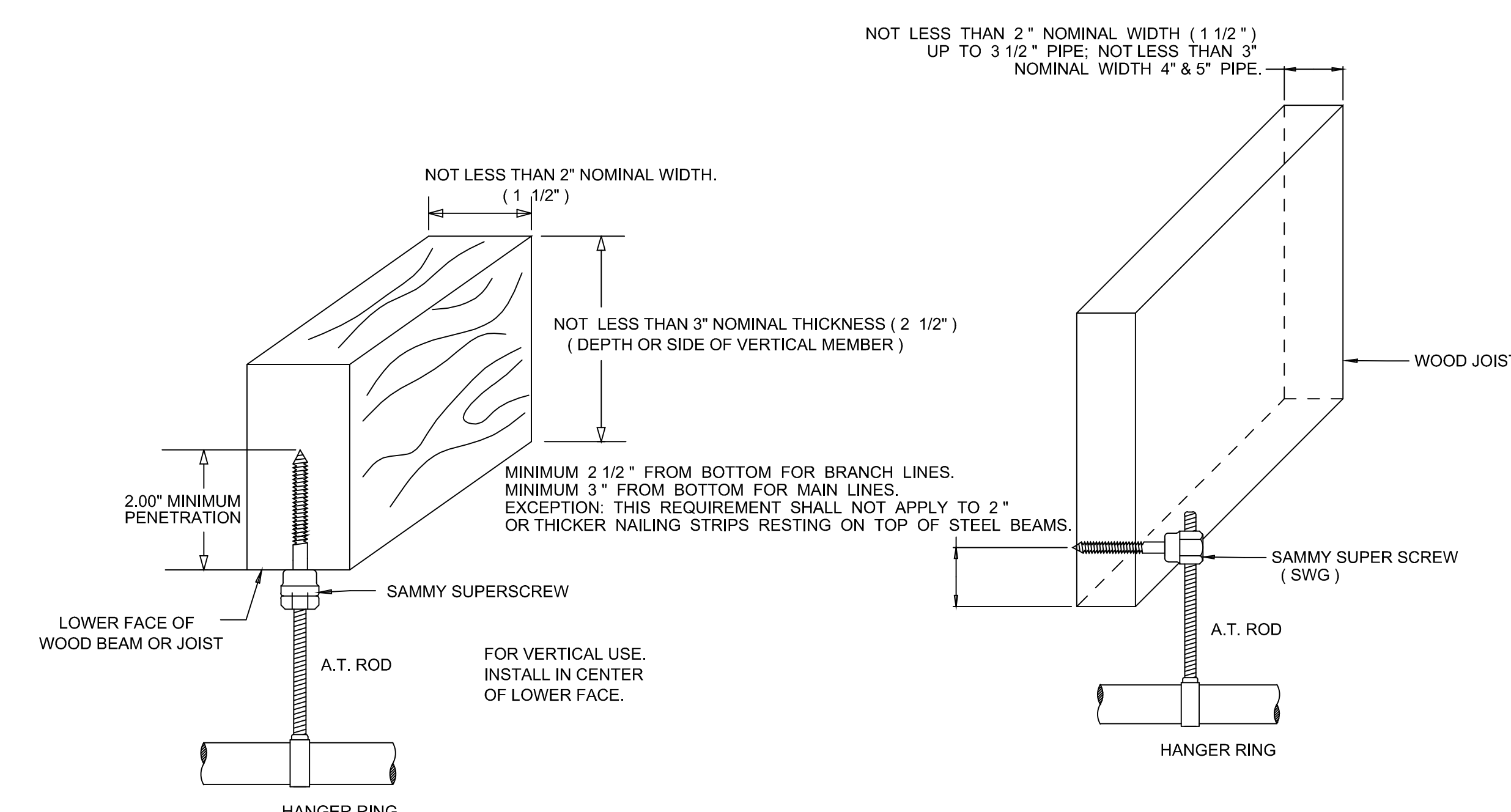
TRAPEZE HANGER

** INSTALLED AS PER NFPA 13 - (10'-0") **

PIPE HANGER DETAIL @ STEEL STRUCTURE (UNPROTECTED)

SCALE: NTS

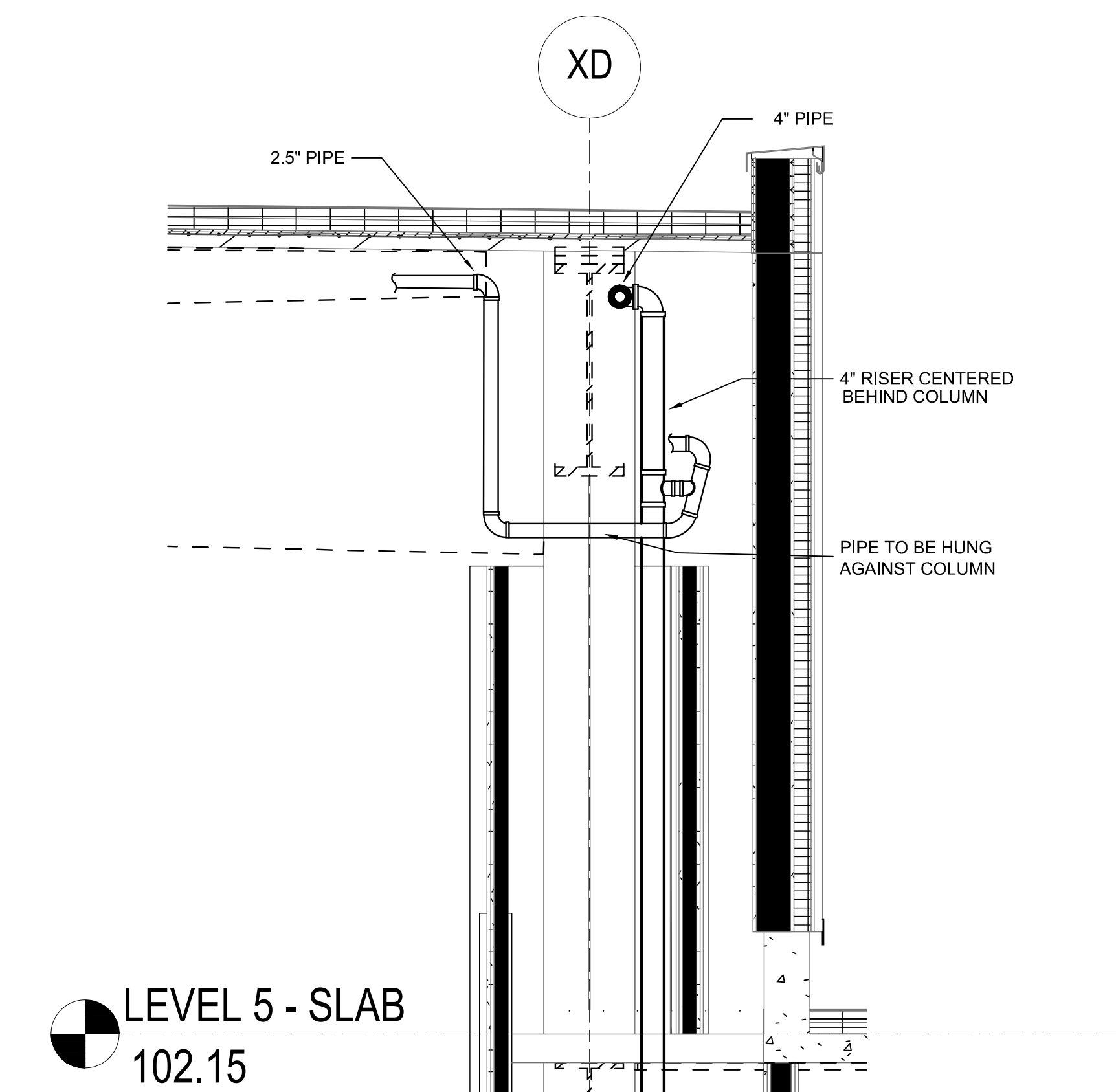
1



PIPE HANGER DETAILS @ WOOD MEMBERS

SCALE: NTS

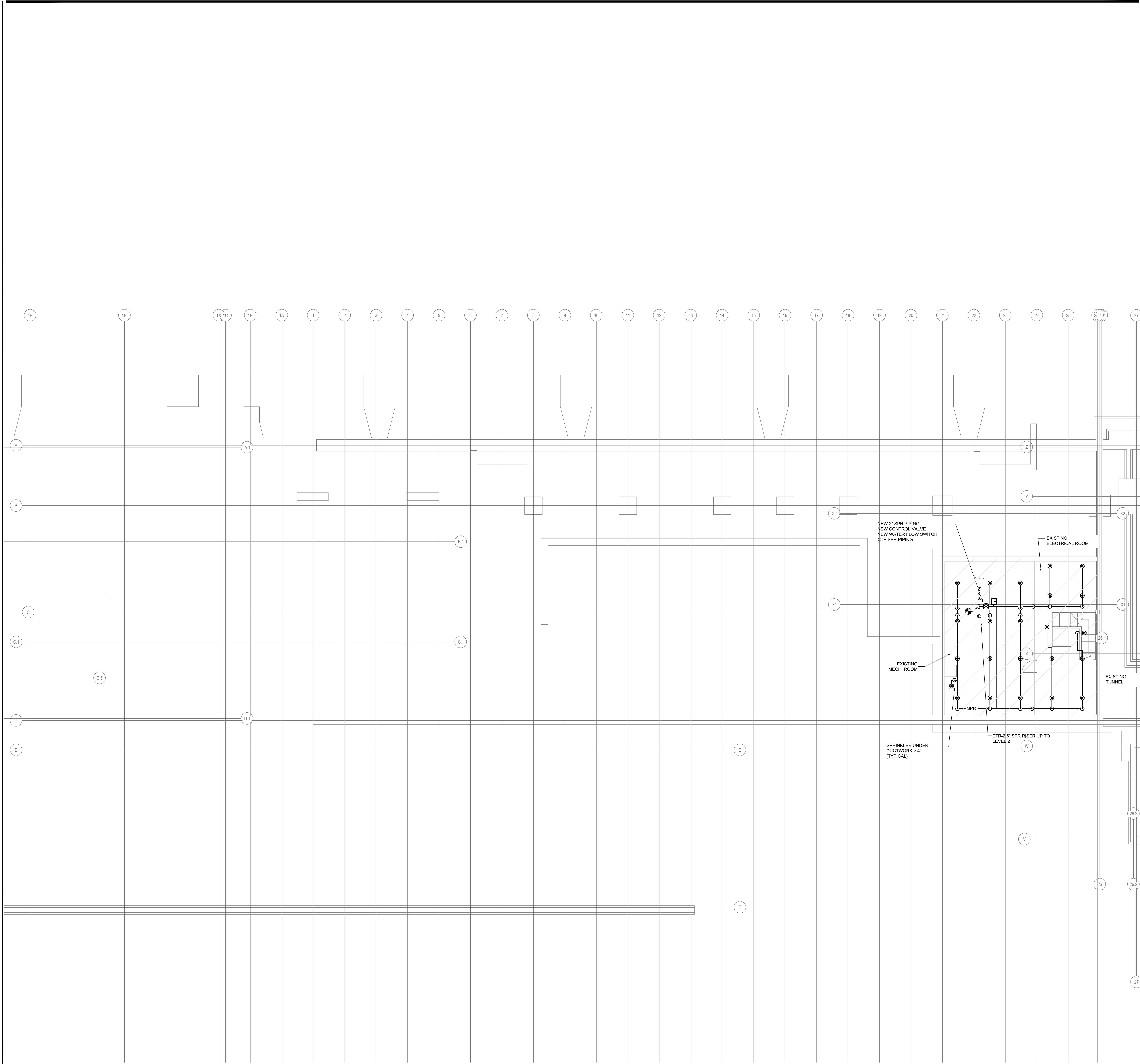
2



4 INCH MAIN SPRINKLER RUN ON 5TH FLOOR

SCALE: NTS

3



SHEET NOTES

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 Washington, DC 20006
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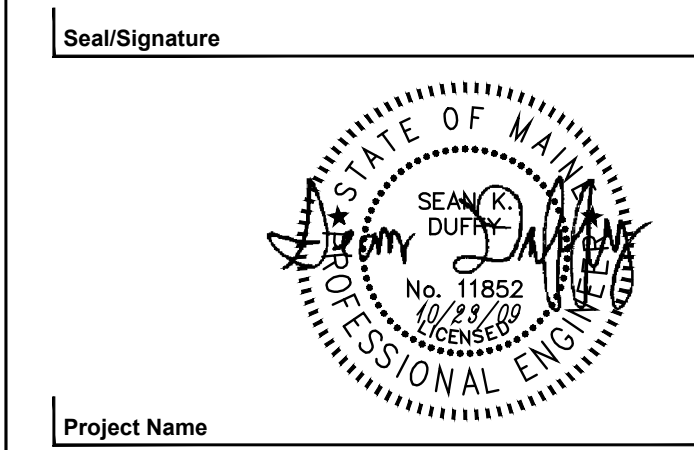
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GENERAL NOTES

A SEE SHEET FP.00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

Issue	Date	Issue Description	By	Check
01	01/23/09	95% CONSTRUCTION DOCUMENTS	MHY	JLD
02	10/26/09	ISSUED FOR PERMIT	JLD	SKD



Project Name
 PWM Terminal Expansion

Project Number
 08.0395.000

CAD File Name
 FP04.B1.02.dwg

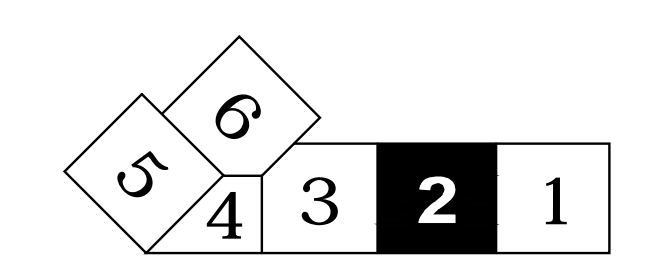
Description
 FIRE PROTECTION PLAN - LEVEL B1 - ZONE 2

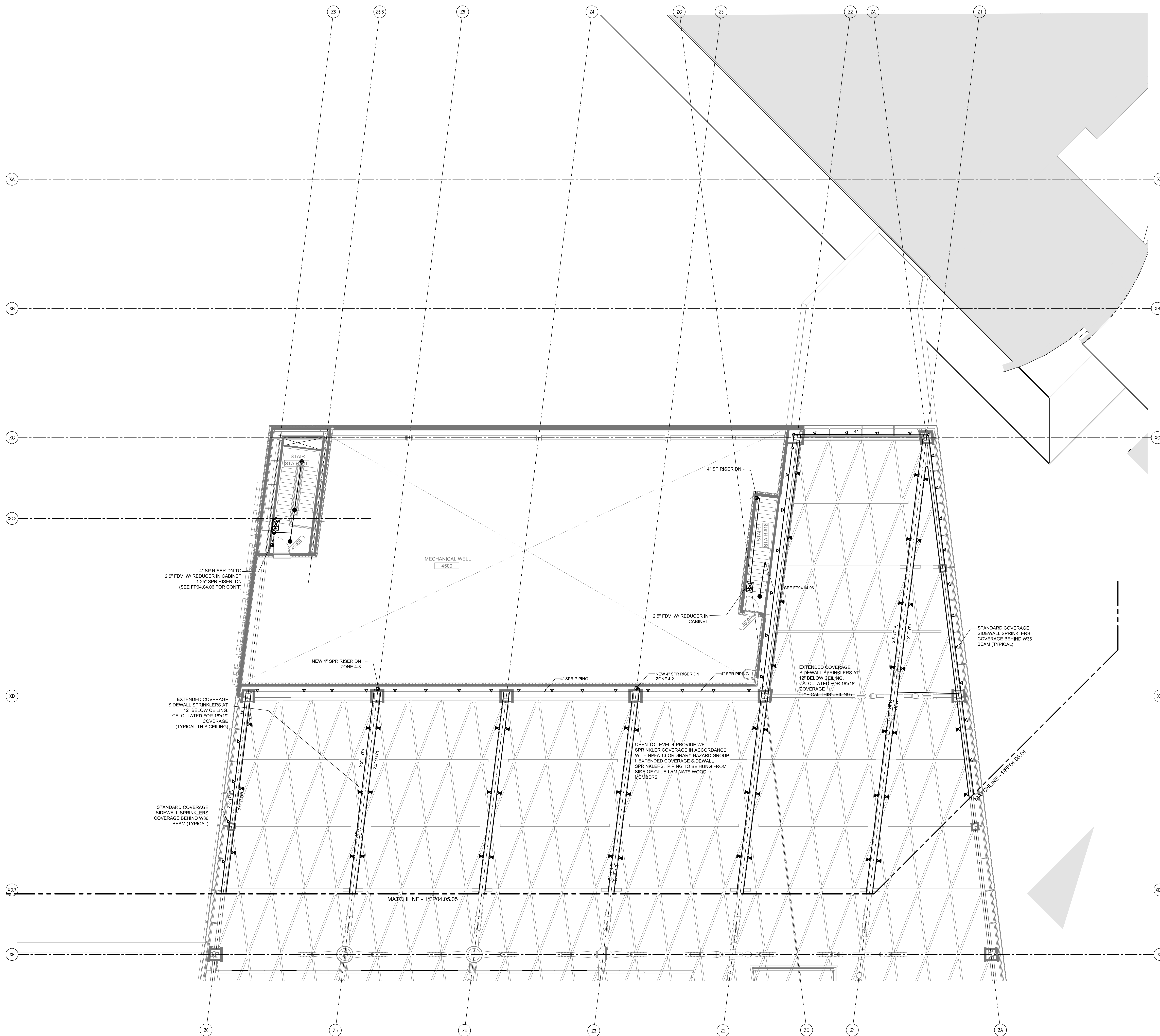
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 1/8" = 1'-0"

FP04.B1.02

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KEY PLAN





FIRE PROTECTION PLAN - LEVEL 5 - ZONE 6

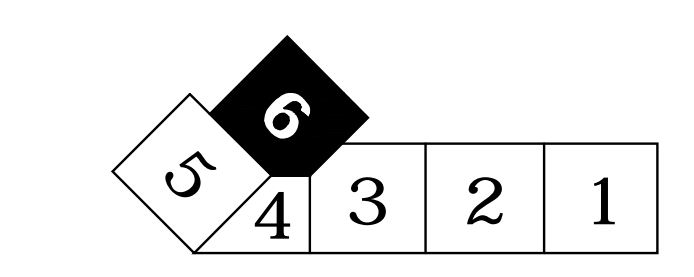
SCALE: 1/8"=1'-0"

SHEET NOTES

GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

KEY PLAN



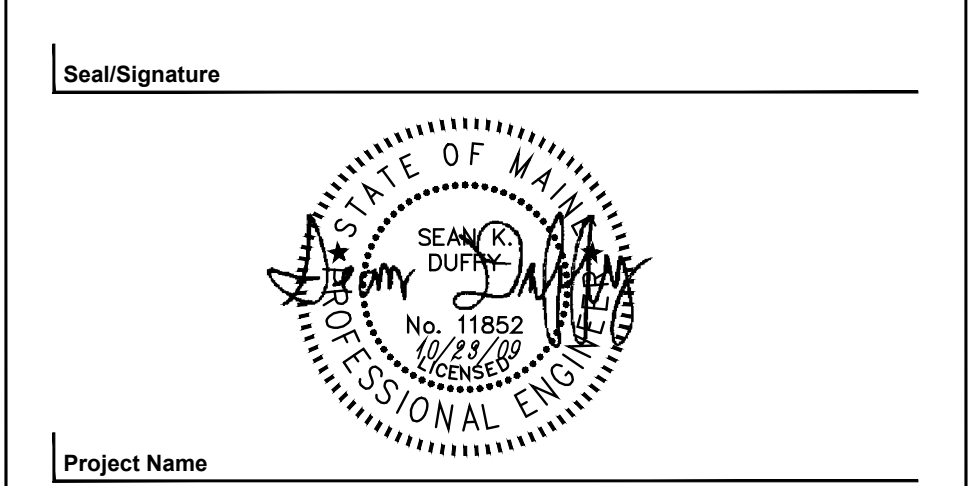
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Issue	Date	Issue Description	By	Check
01	09/22/08		SKD	WMC
02	12/03/08	DESIGN DEVELOPMENT	SKD	WMC
03	01/23/09	75% CONSTRUCTION DOCUMENTS	MHY	JLD
04	10/29/09	95% CONSTRUCTION DOCUMENTS	JLD	SKD
ISSUED FOR PERMIT				



Project Name
 PWM Terminal Expansion

Project Number
 08.0395.000

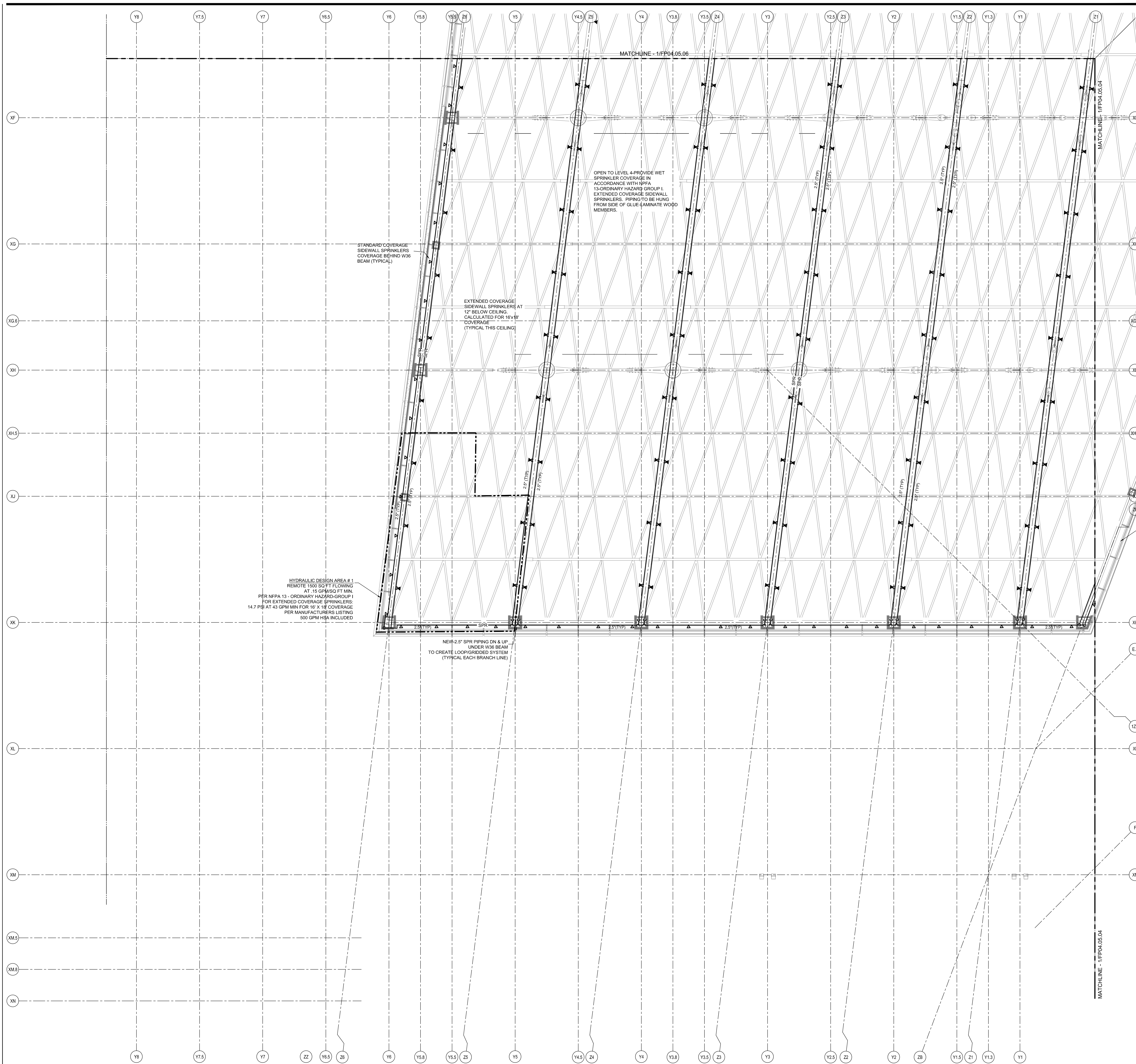
CAD File Name
 FP04.05.06.dwg

Description
 FIRE PROTECTION PLAN - LEVEL 5 - ZONE 6

Scale
 1/8" = 1'-0"

FP04.05.06

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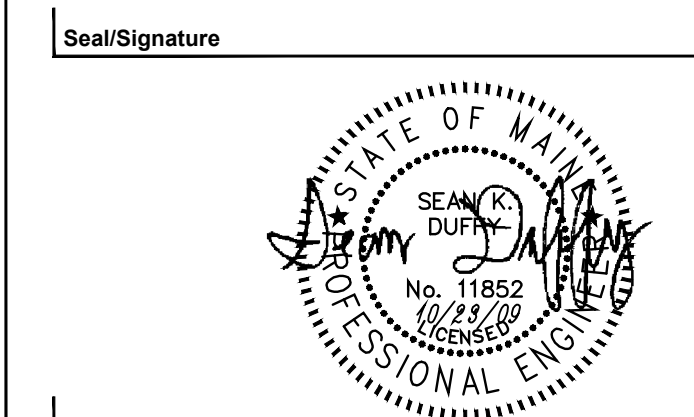
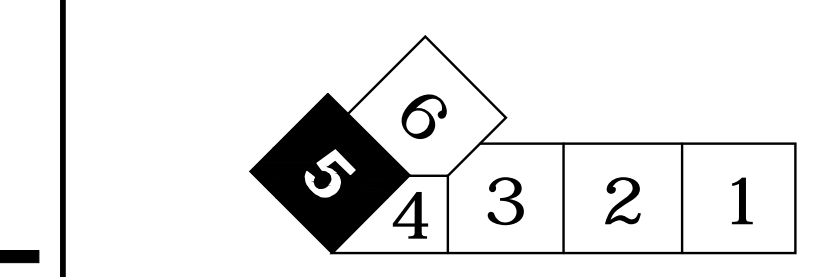
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 South Portland, ME 04106
 207.442.7268
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GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

Issue	Date & Issue Description	By	Check
01	07/11/08	PWZ	RFB
02	09/22/08	SKD	WMC
03	12/03/08	SKD	WMC
04	01/23/09	MHY	JLD
05	10/26/09	JDL	SKD

KEY PLAN



Project Name
 PWM Terminal Expansion

Project Number
 08.0395.000

CAD File Name
 FP04.05.05.dwg

Description
 FIRE PROTECTION PLAN - LEVEL 5 - ZONE 5

Scale
 1/8" = 1'-0"

FP04.05.05

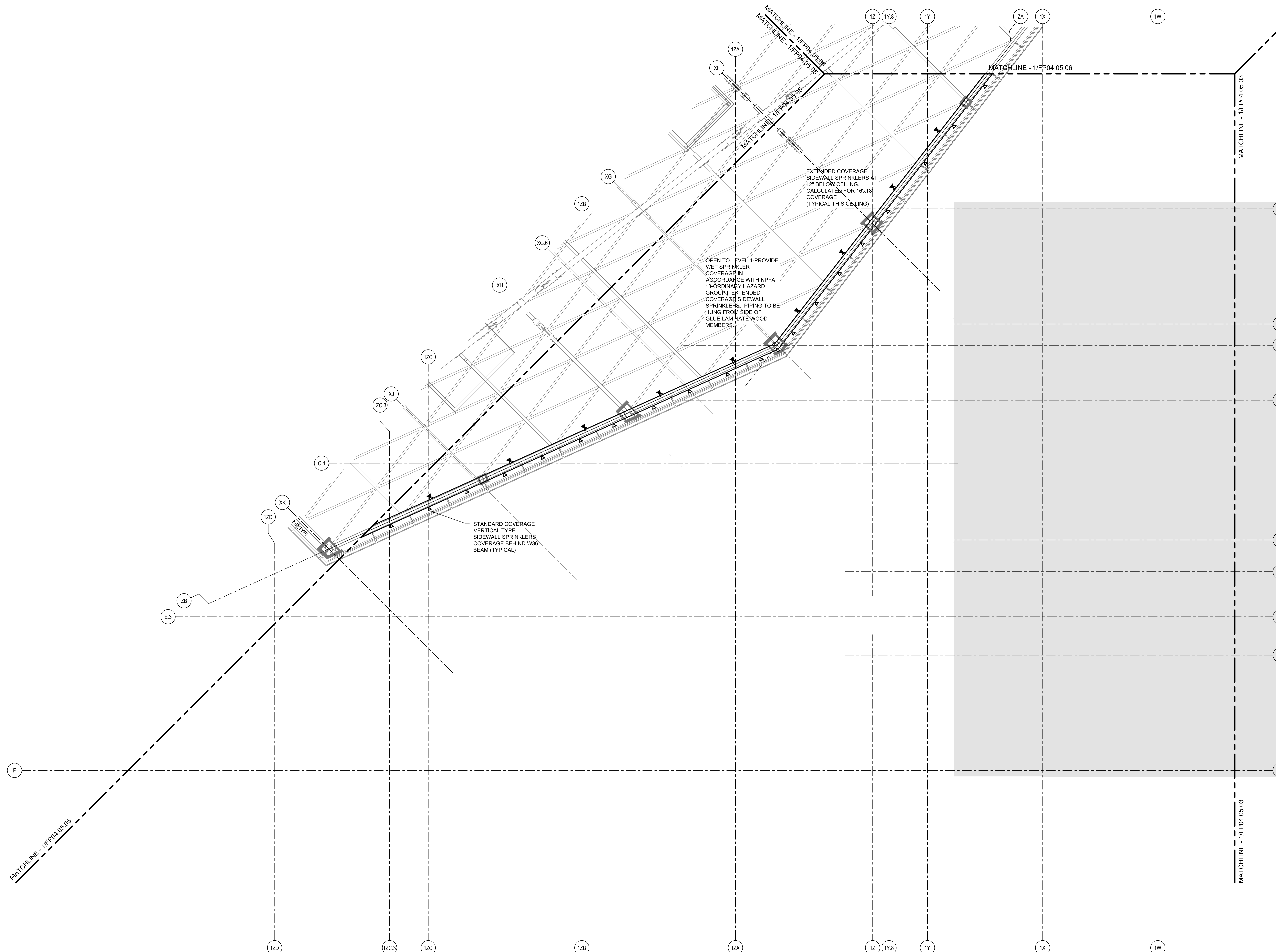
SHEET NOTES

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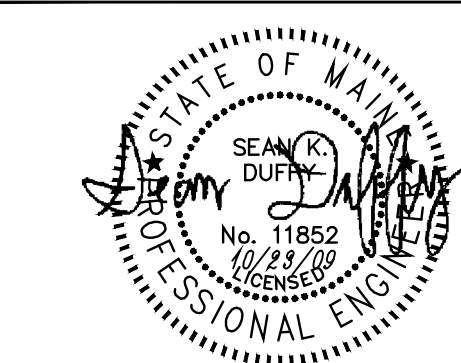
GENERAL NOTES

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Issue	Date & Issue Description	By	Check
01	07/11/08	PWZ	RHB
02	09/22/08	SKD	WMC
03	12/03/08	SKD	WMC
04	01/23/09	MHY	JLD
05	10/26/09	JLD	SKD

ISSUED FOR PERMIT

Seal/Signature



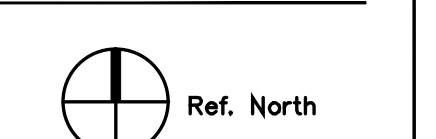
Project Name
PJM Terminal Expansion

Project Number
08.0395.000

CAD File Name
FP04.05.04.dwg

Description
FIRE PROTECTION PLAN - LEVEL 5 - ZONE 4

Scale
1/8" = 1'-0"



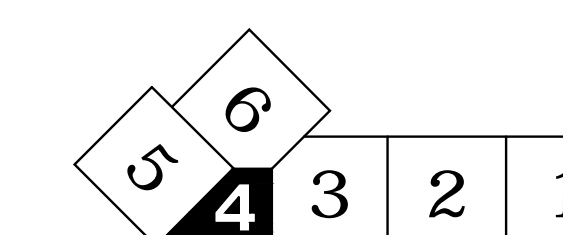
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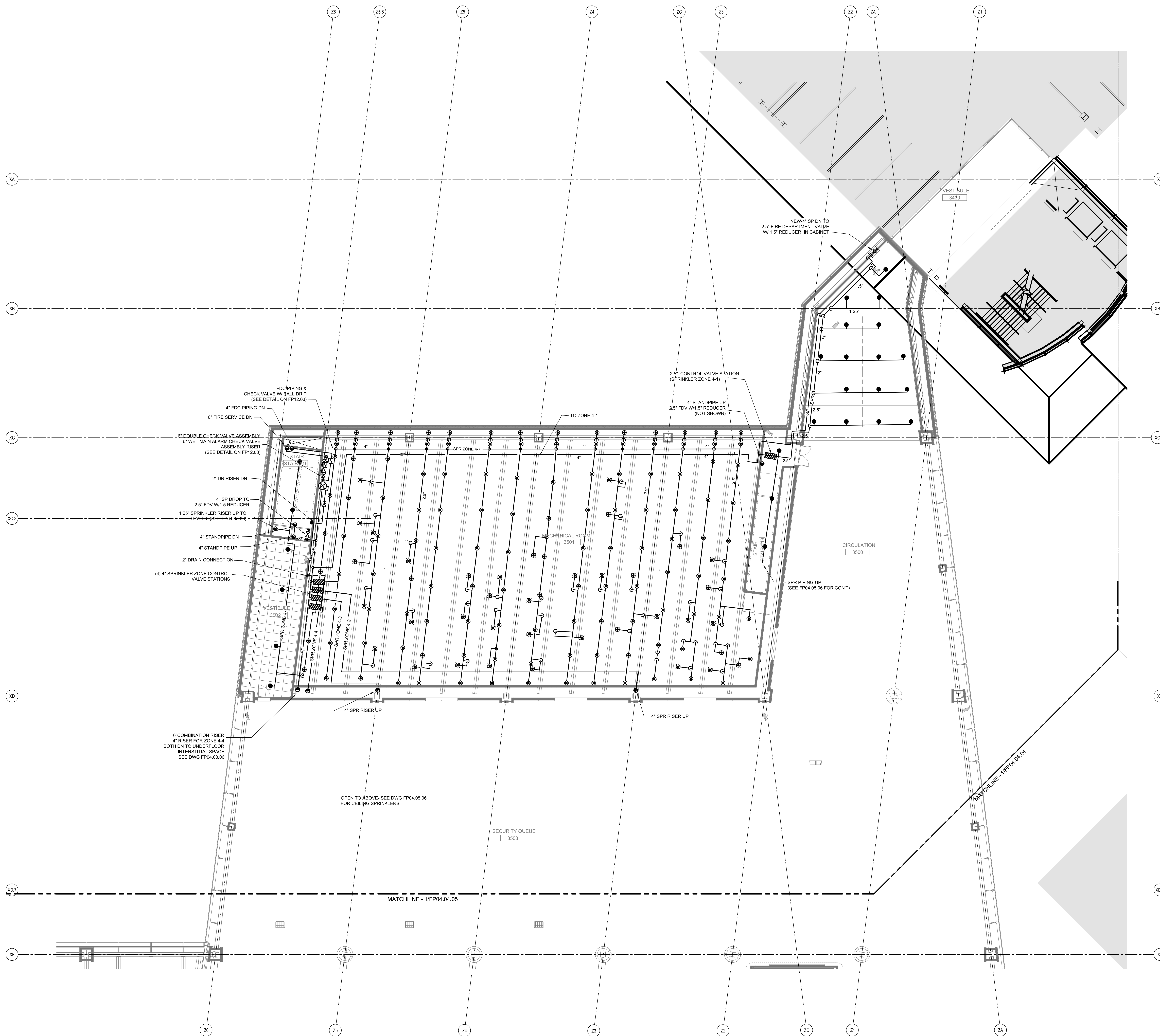
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FIRE PROTECTION PLAN - LEVEL 5 - ZONE 4

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

KEY PLAN





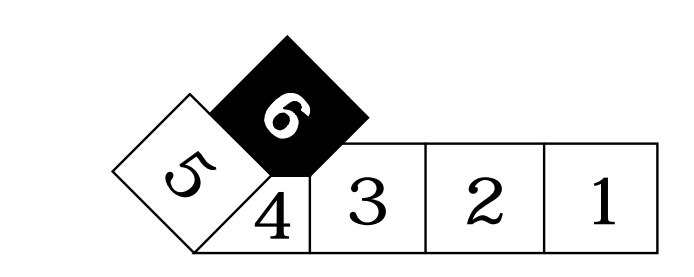
FIRE PROTECTION PLAN - LEVEL 4 - ZONE 6
SCALE: 1/8"=1'-0"

SHEET NOTES

GENERAL NOTES

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KEY PLAN



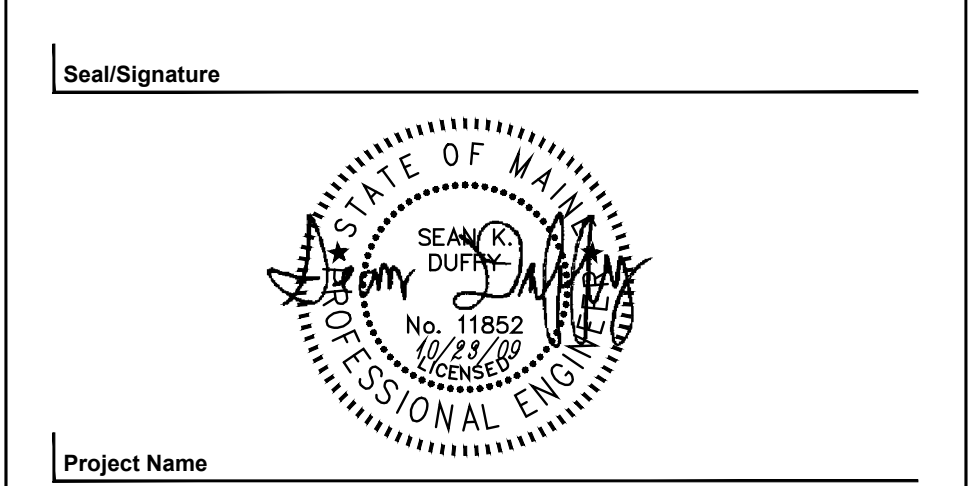
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05	10/26/09	JLD	SKD



Project Name
PJM Terminal Expansion

Project Number
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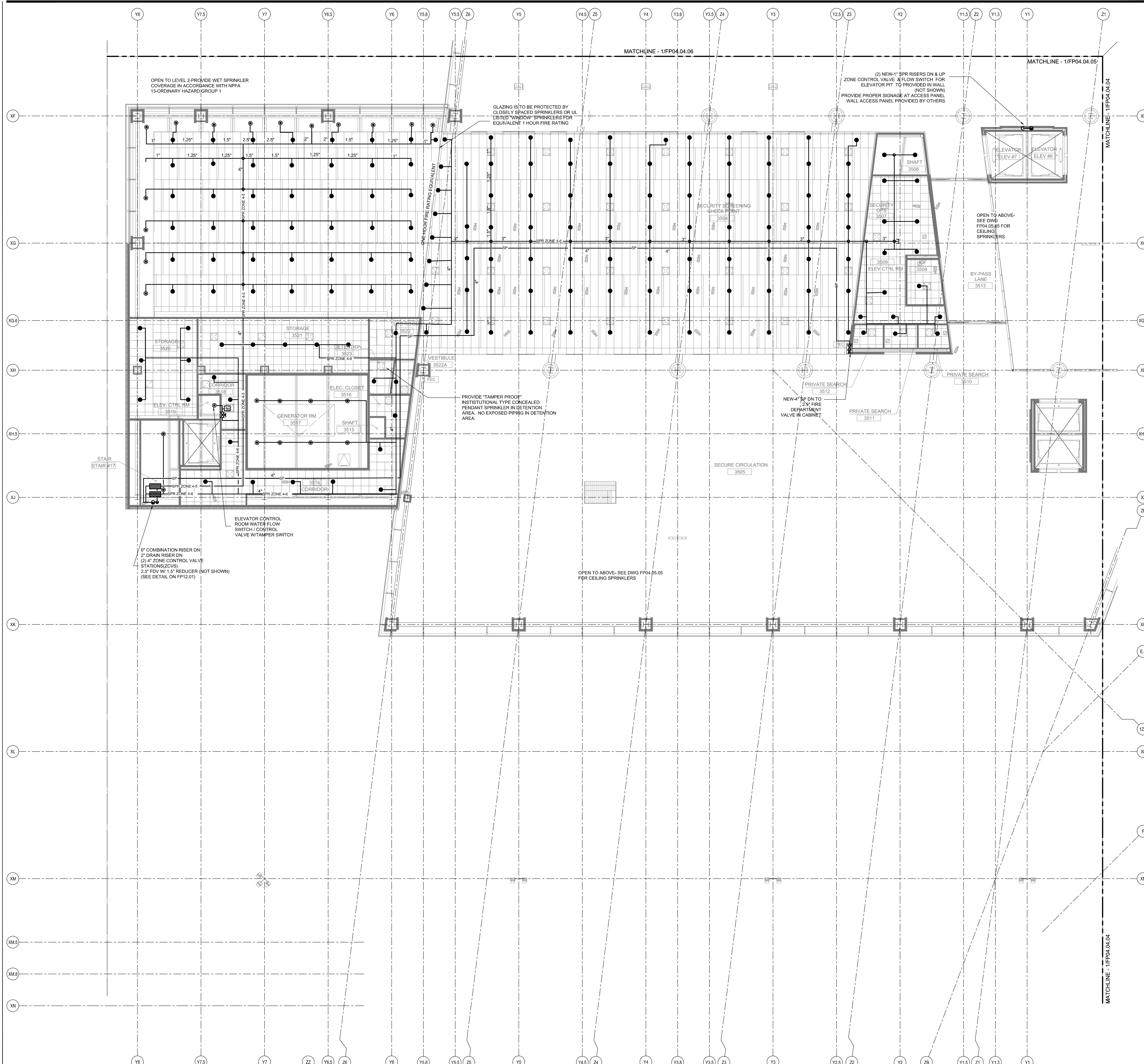
CAD File Name
FP04.04.06.dwg

Description
FIRE PROTECTION PLAN - LEVEL 4 - ZONE 6

Scale
1/8" = 1'-0"

FP04.04.06

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SHEET NOTES

OPEN TO LEVEL 2. PROVIDE WET SPRINKLER COVERAGE IN ACCORDANCE WITH NFPA 13-ORDINARY HAZARD GROUP 1

GLAZING IS TO BE PROTECTED BY CLOSELY SPACED SPRINKLERS OR UL LISTED "WINDOW" SPRINKLERS FOR EQUIVALENT 1 HOUR FIRE RATING

(2) NEW 1" SPR RISERS DN & UP ZONE CONTROL VALVE & FLOW SWITCH FOR ELEVATOR PIT TO PROVIDED IN WALL (NOT SHOWN) PROVIDE PROPER SIGNAGE AT ACCESS PANEL. WALL ACCESS PANEL PROVIDED BY OTHERS

OPEN TO ABOVE. SEE DWG FP04.05.05 FOR CEILING SPRINKLERS

BY-PASS LANE 3513

PROVIDE TAMPER PROOF INSTITUTIONAL TYPE CONCEALED PENDANT SPRINKLER IN DETENTION AREA. NO EXPOSED PIPING IN DETENTION AREA.

NEW 4" SP DN TO 2" FIRE DEPARTMENT VALVE IN CABINET

OPEN TO ABOVE. SEE DWG FP04.05.05 FOR CEILING SPRINKLERS

6" COMBINATION RISER DN 2" DRAIN RISER DN (2) 4" ZONE CONTROL VALVE STATIONS (2) 2.5" FDW W/ 1.5" REDUCER (NOT SHOWN) (SEE DETAIL ON FP12.01)

ELEVATOR CONTROL ROOM WATER FLOW SWITCH / CONTROL VALVE W/TAMPER SWITCH

Portland International Jetport
1001 Westbrook Street
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Washington, DC 20006
Telephone 202.721.5200
Facsimile 202.872.8587

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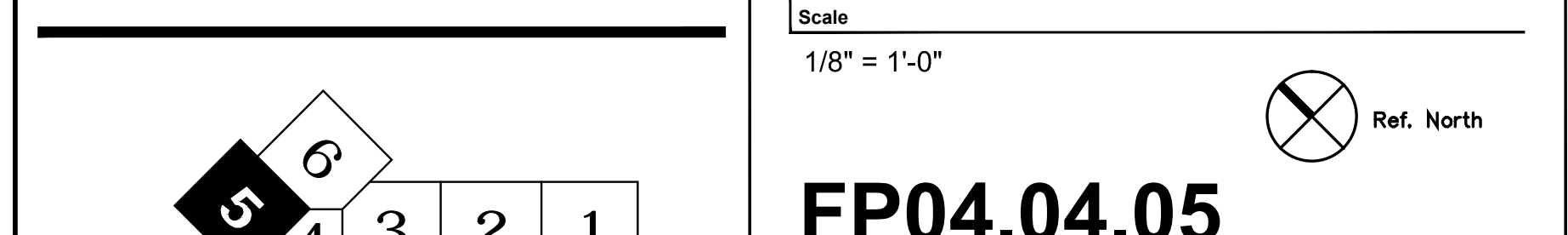
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04	01/23/09	MHY	JLD
05	10/26/09	JLD	SKD

ISSUED FOR PERMIT

GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

KEY PLAN



FIRE PROTECTION PLAN - LEVEL 4 - ZONE 5
SCALE: 1/8" = 1'-0"

Project Name
PJM Terminal Expansion

Project Number
08.0395.000
CAD File Name
FP04.04.05.dwg
Description
FIRE PROTECTION PLAN - LEVEL 4 - ZONE 5

Scale
1/8" = 1'-0"

Ref. North

FP04.04.05

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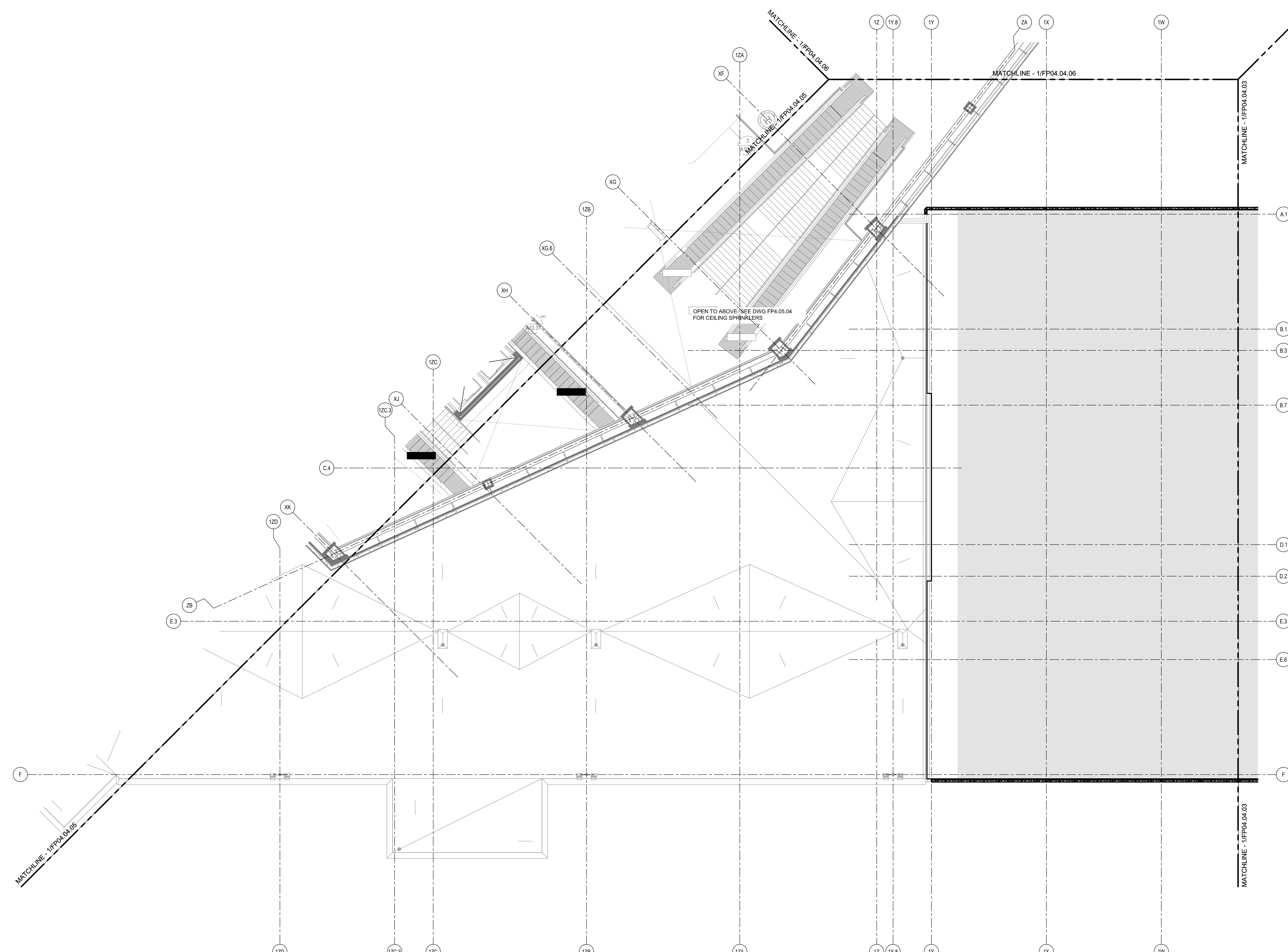
SHEET NOTES

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Portland, Maine 04102

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2020 K Street, NW
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Washington, DC 20006
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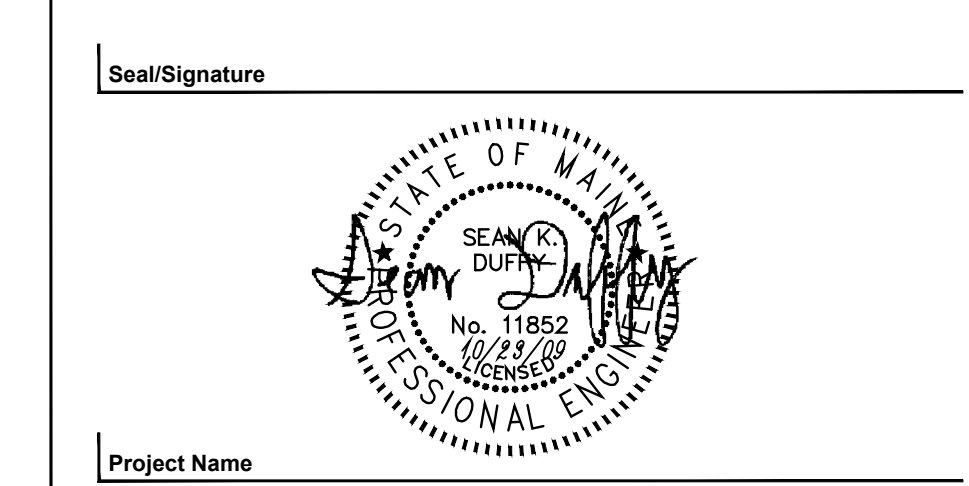
FIRE RISK MANAGEMENT, INC.
1 First Street
South Portland, ME 04106 P: (207) 442-7200
www.fire-risk.com



GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

Issue	Date & Issue Description	By	Check
01	07/11/08	PWZ	RHB
02	09/22/08	SKD	WMC
03	12/03/08	SKD	WMC
04	01/23/09	MHY	JLD
05	10/26/09	JLD	SKD



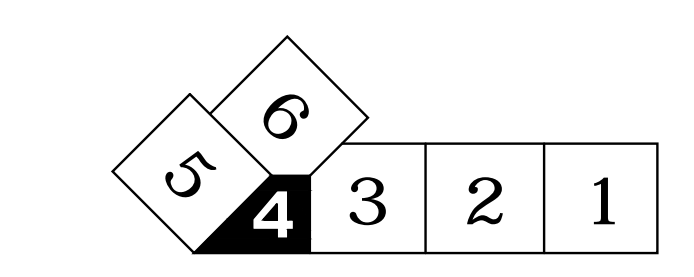
Project Name
PJM Terminal Expansion

Project Number
08.0395.000

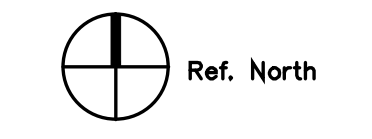
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Description
FIRE PROTECTION PLAN - LEVEL 4 - ZONE 4

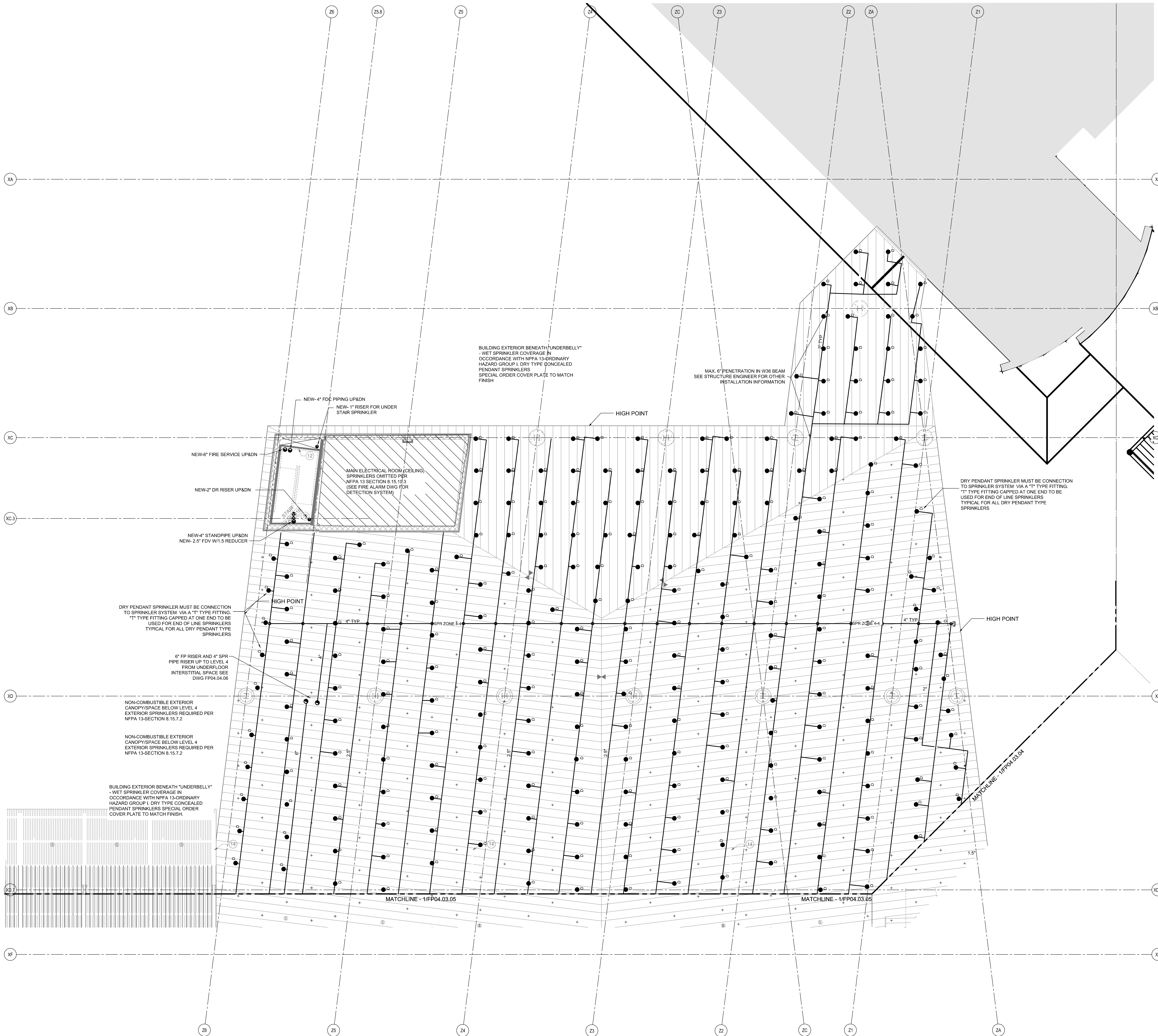
KEY PLAN



Scale
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FP04.04.04



FIRE PROTECTION PLAN - LEVEL 3 - ZONE 6

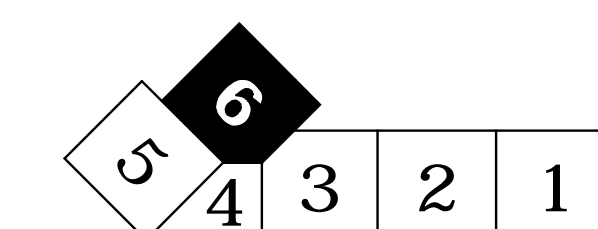
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SHEET NOTES

GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

KEY PLAN



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Portland, Maine 04102

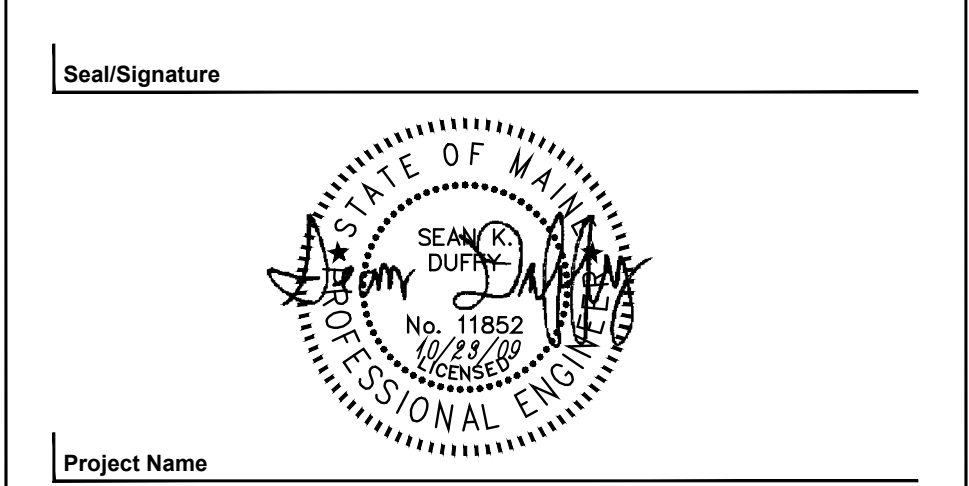
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207.482-7268
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Issue	Date	Issue Description	By	Check
01	09/22/08		SKD	WMC
02	12/03/08	DESIGN DEVELOPMENT	SKD	WMC
03	01/23/09	75% CONSTRUCTION DOCUMENTS	MHY	JLD
04	10/28/09	95% CONSTRUCTION DOCUMENTS	JLD	SKD
ISSUED FOR PERMIT				



Project Name
PJM Terminal Expansion

Project Number
08.0395.000

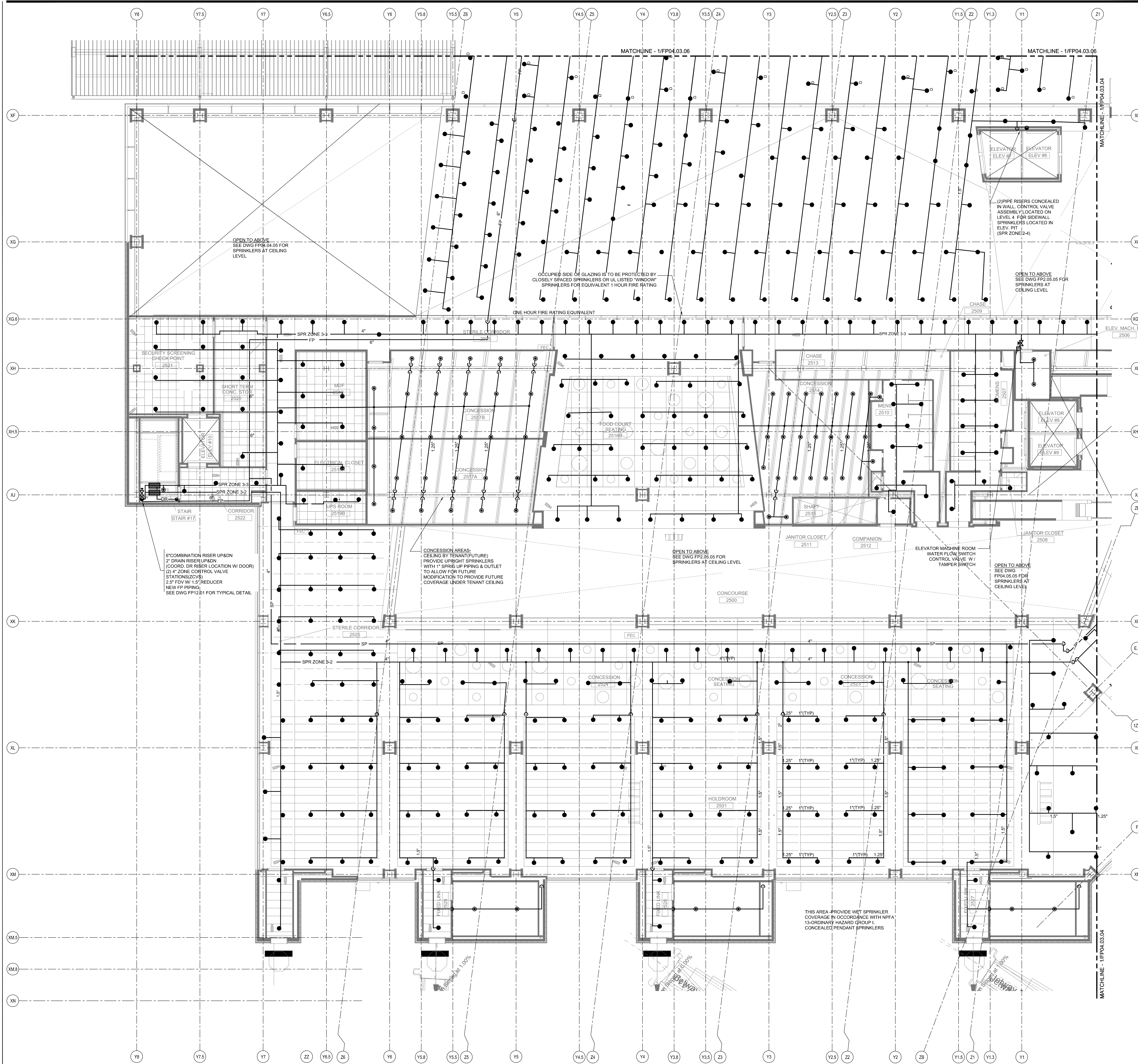
CAD File Name
FP04.03.06.dwg

Description
FIRE PROTECTION PLAN - LEVEL 3 - ZONE 6

Scale
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FP04.03.06

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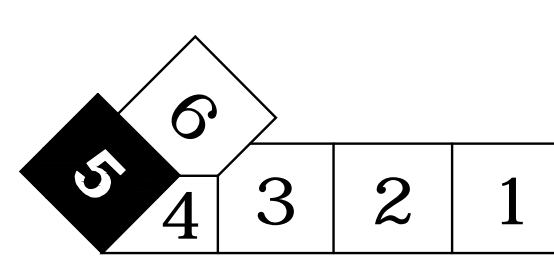


SHEET NOTES

GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

KEY PLAN



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Portland, Maine 04102

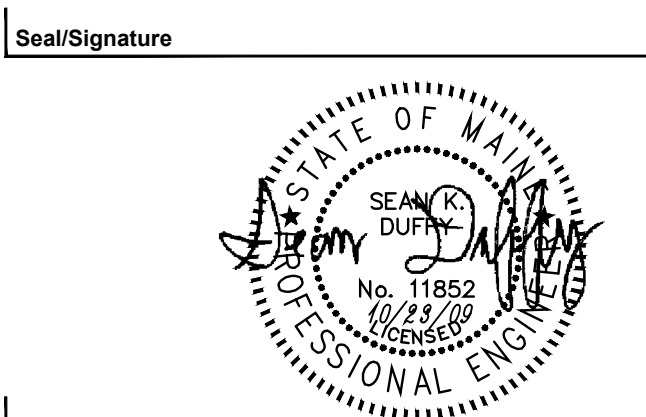
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Issue	Date & Issue Description	By	Check
01	07/11/08	SKD	RHB
02	09/22/08	SKD	WMC
03	12/03/08	SKD	WMC
04	01/23/09	MHY	JLD
05	10/26/09	JLD	SKD



Project Name
PJM Terminal Expansion

Project Number
08.0395.000

CAD File Name
FP04.03.05.dwg

Description
FIRE PROTECTION PLAN - LEVEL 3 - ZONE 5

Scale
1/8" = 1'-0"

FP04.03.05

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SHEET NOTES

01 ALL SPRINKLERS IN EXISTING HOLDROOM AREA MUST BE STANDARD RESPONSE TYPE TO MATCH RESPONSE TYPE OF NEW TYPE TO MATCH RESPONSE TYPE OF NEW EXTENDED COVERAGE SPRINKLERS LISTED FOR AN ORDINARY HAZARD OCCUPANCY. REPLACE EXISTING SPRINKLERS.

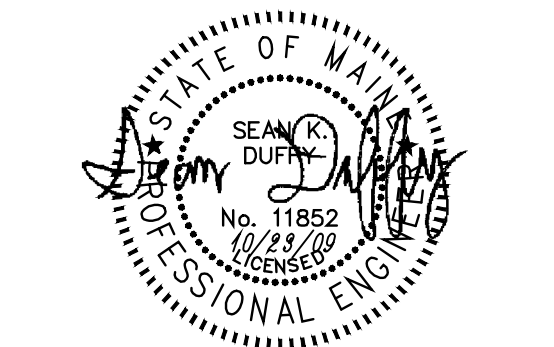
02 NO SPRINKLER WORK PLANNED IN EXISTING OFFICE/ CONFERENCE AREA NOTED. AREA IS PROVIDED WITH AN EXISTING SPRINKLERS AND PIPING NOT SHOWN BUT TO REMAIN. (EXCEPT AS NOTED ON DRAWINGS)

GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

Issue	Date & Issue Description	By	Check
01	07/11/08	PWZ	RHB
02	09/22/08	SKD	WMC
03	12/03/08	SKD	WMC
04	01/23/09	MHY	JLD
05	10/26/09	JLD	SKD
	ISSUED FOR PERMIT		

Seal/Signature



Project Name
 P/W Terminal Expansion

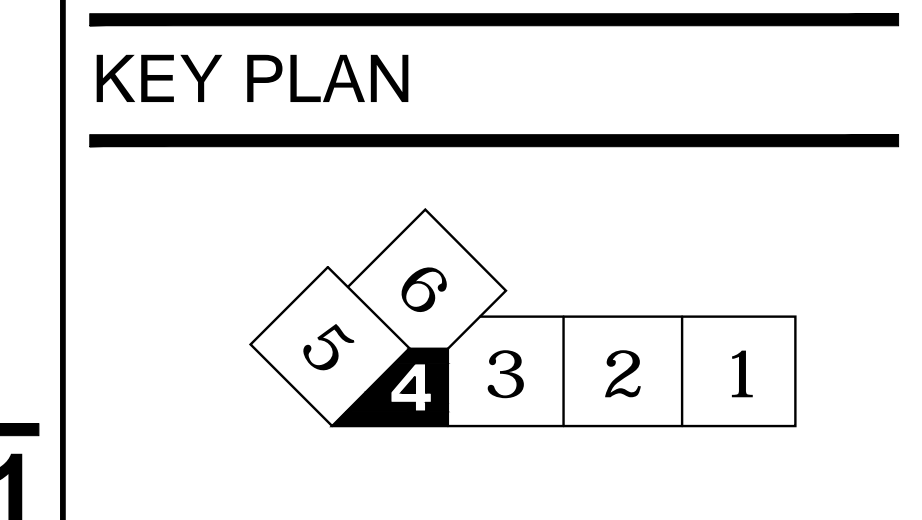
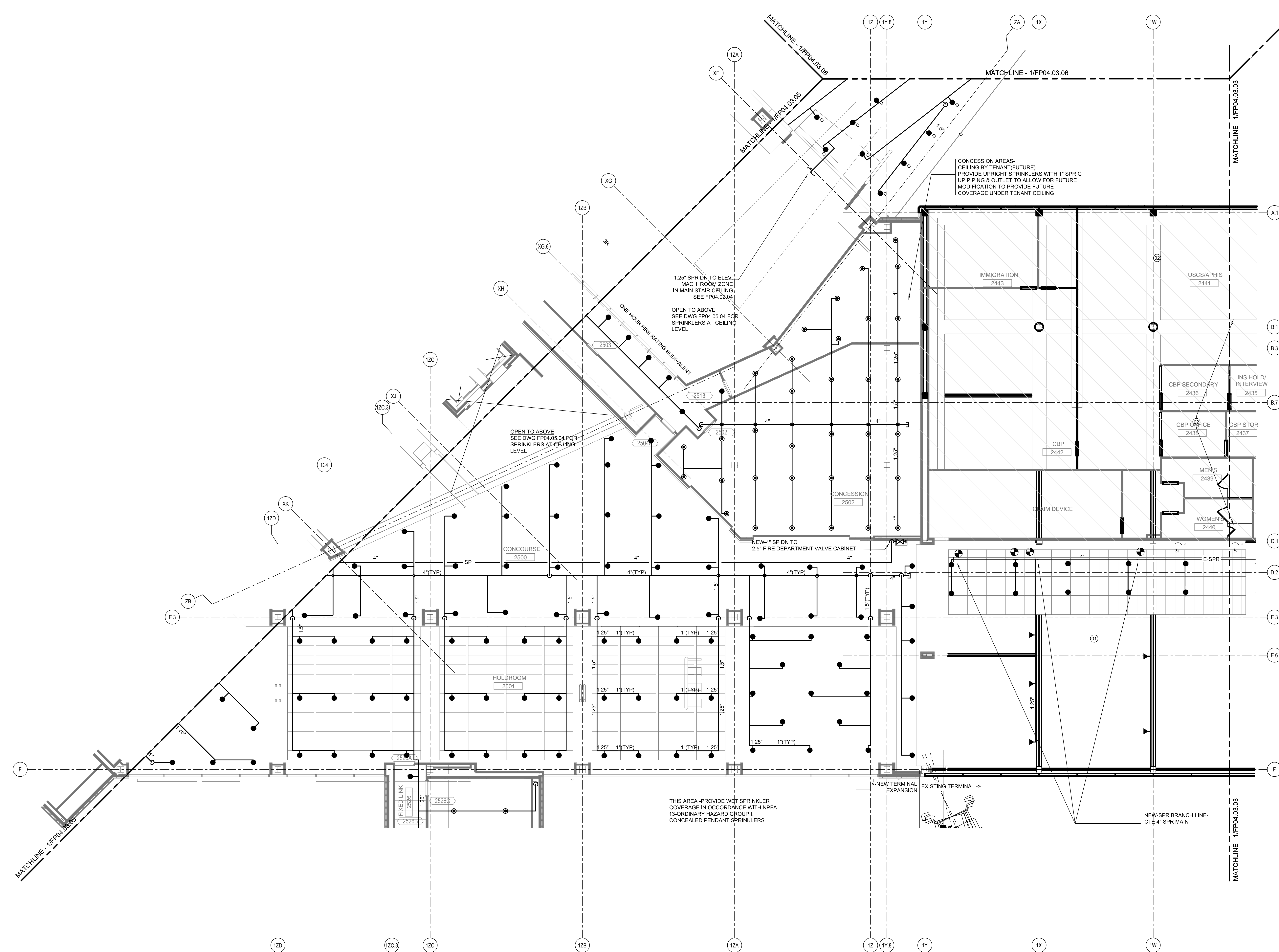
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 CAD File Name
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 FIRE PROTECTION PLAN - LEVEL 3 - ZONE 4

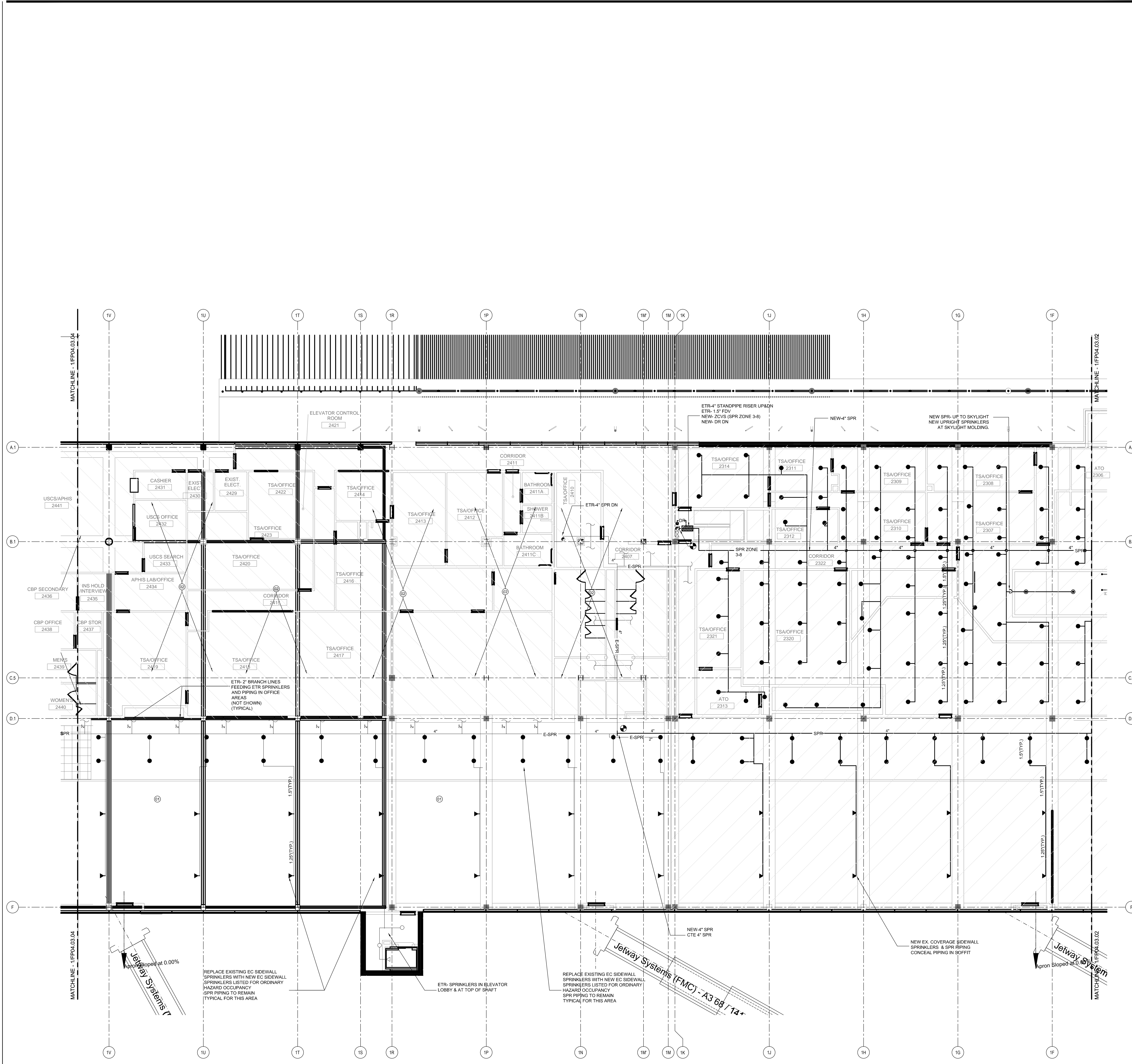
Scale
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Ref. North

FP04.03.04

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SHEET NOTES

01 ALL SPRINKLERS IN EXISTING HOLDROOM AREA MUST BE STANDARD RESPONSE TYPE TO MATCH RESPONSE TYPE OF NEW EXTENDED COVERAGE SPRINKLERS LISTED FOR AN ORDINARY HAZARD OCCUPANCY. REPLACE EXISTING SPRINKLERS.

02 NO SPRINKLER WORK PLANNED IN EXISTING OFFICE/ CONFERENCE AREA NOTED. AREA IS PROVIDED WITH AN EXISTING SPRINKLERS AND PIPING NOT SHOWN BUT TO REMAIN. (EXCEPT AS NOTED ON DRAWINGS)

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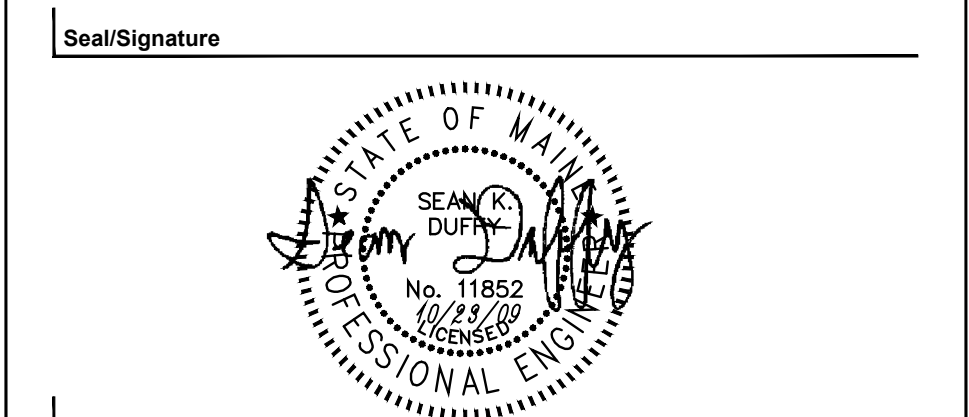
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GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

Issue	Date & Issue Description	By	Check
01	09/22/08	SKD	WMC
02	12/03/08	SKD	WMC
03	01/23/09	MHY	JLD
04	10/26/09	JLD	SKD

ISSUED FOR CONSTRUCTION



Project Name
 P3W Terminal Expansion

Project Number
 08.0395.000

CAD File Name
 FP04.03.03.dwg

Description
 FIRE PROTECTION PLAN - LEVEL 3 - ZONE 3

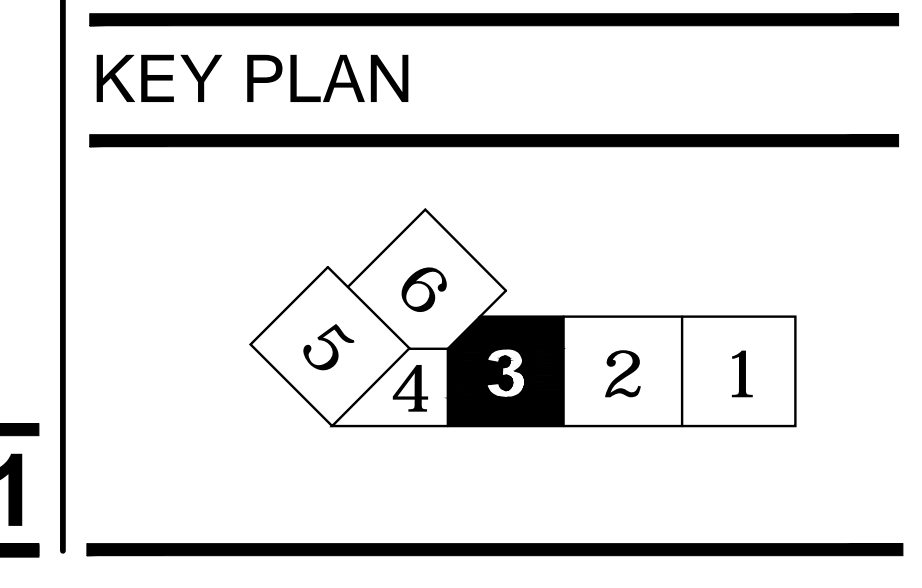
Scale
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Ref. North

FP04.03.03

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FIRE PROTECTION PLAN - LEVEL 3 - ZONE 3
 SCALE: 1/8"=1'-0"



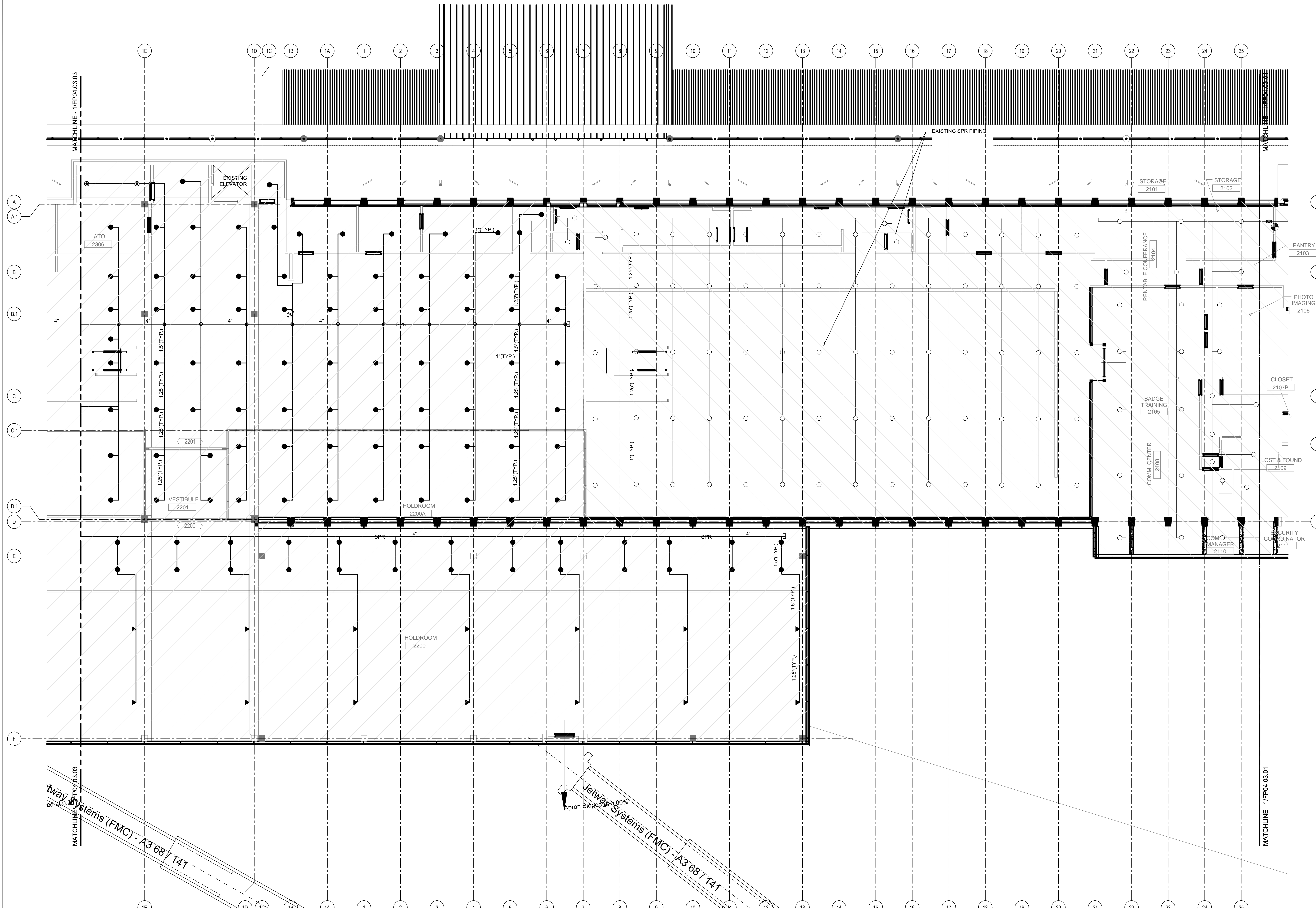
SHEET NOTES

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1001 Westbrook Street
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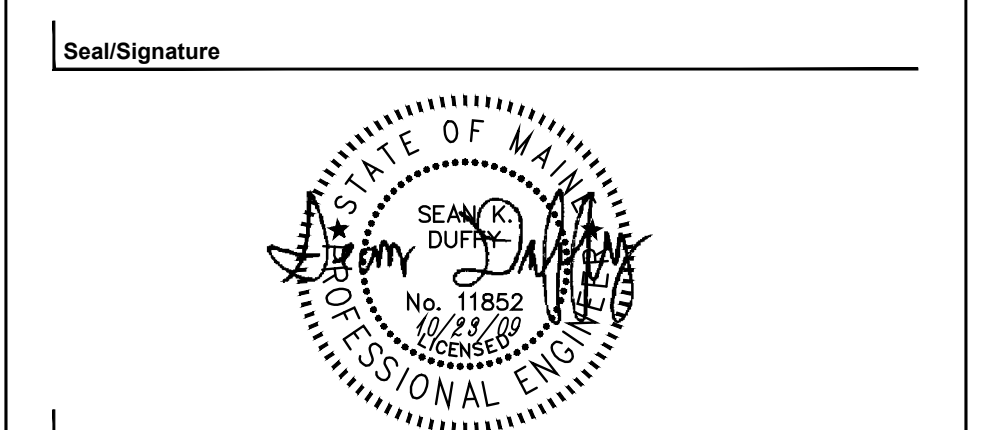


GENERAL NOTES

A SEE SHEET F00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

Issue	Date & Issue Description	By	Check
01	09/22/08	SKD	WMC
02	12/03/08	SKD	WMC
03	01/23/09	MHY	JLD
04	10/26/09	JLD	SKD

ISSUED FOR PERMIT



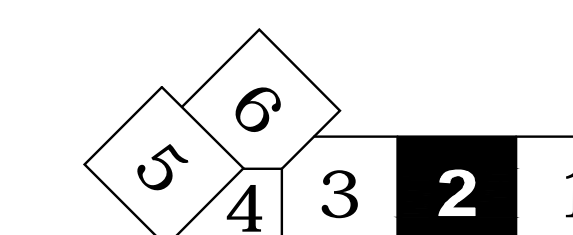
Project Name
PJM Terminal Expansion

Project Number
08.0395.000

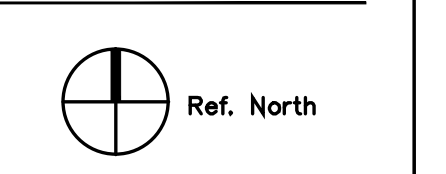
CAD File Name
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Description
FIRE PROTECTION PLAN - LEVEL 3 - ZONE 2

KEY PLAN



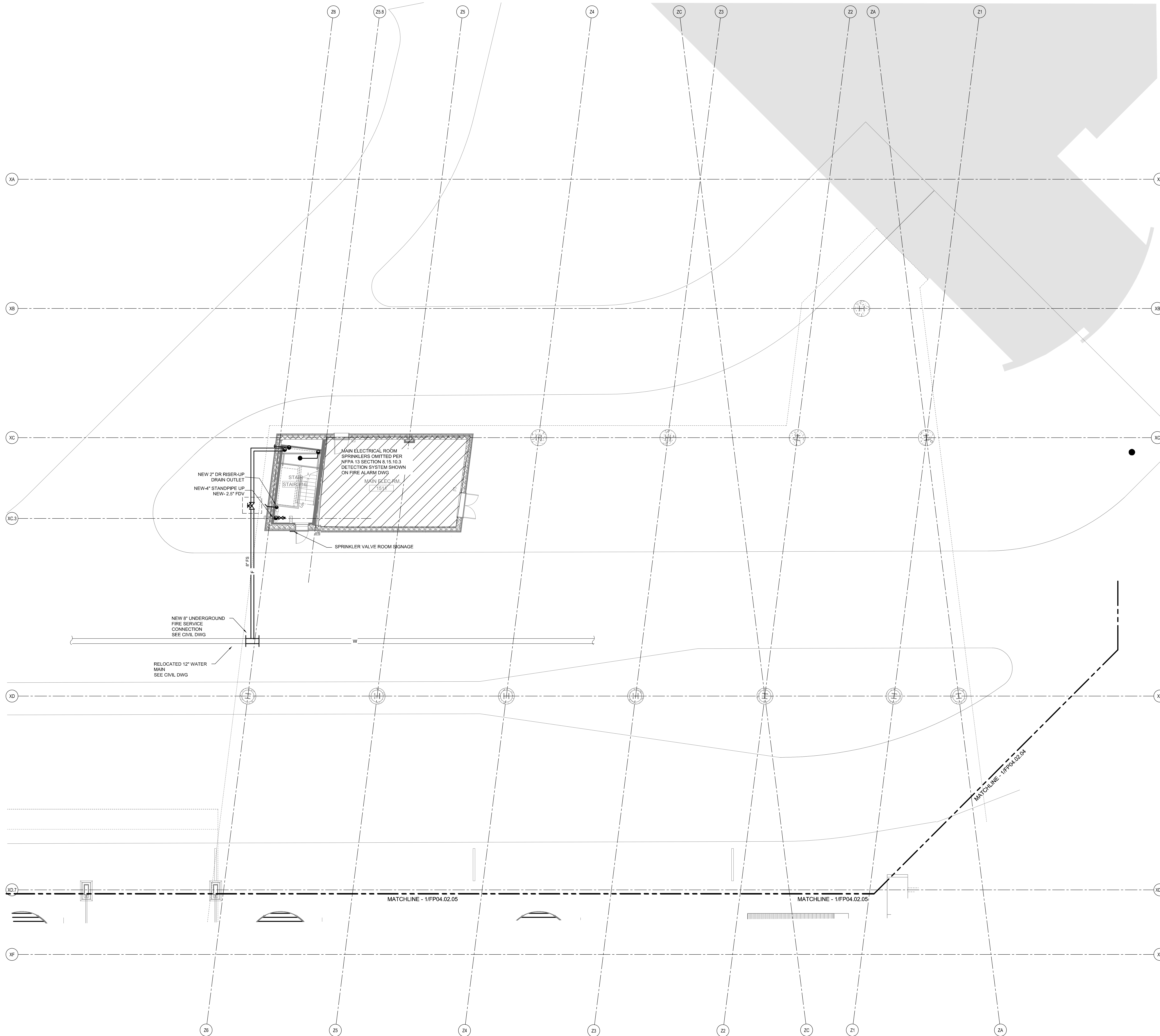
Scale
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FP04.03.02

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FIRE PROTECTION PLAN - LEVEL 3 - ZONE 2
SCALE: 1/8"=1'-0"

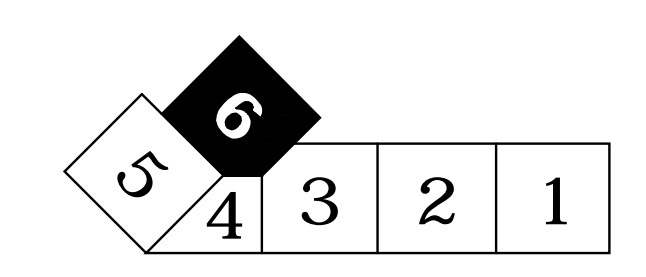


SHEET NOTES

GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

KEY PLAN



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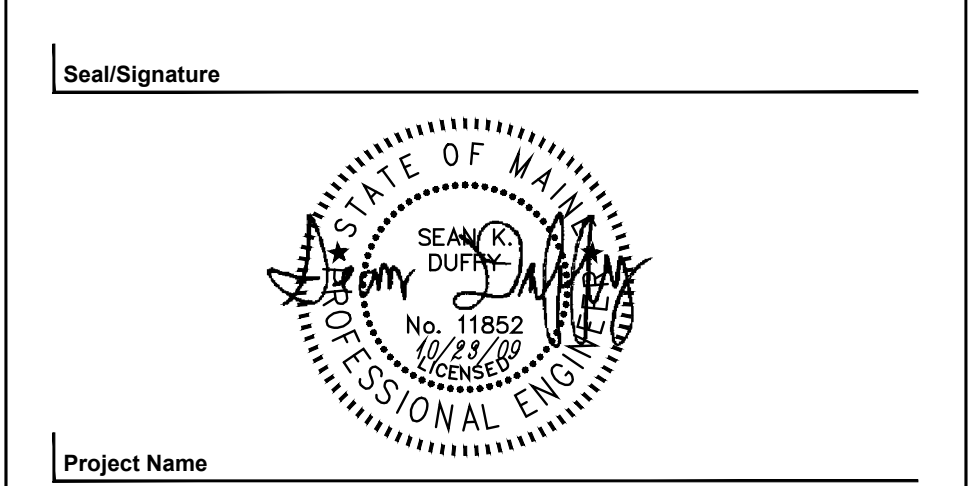
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Issue	Date & Issue Description	By	Check
01	07/11/08	PWZ	RHB
02	09/22/08	SKD	WMC
03	12/03/08	SKD	WMC
04	01/23/09	MHY	JLD
05	10/26/09	JLD	SKD



Project Name
 PWM Terminal Expansion

Project Number
 08.0395.000

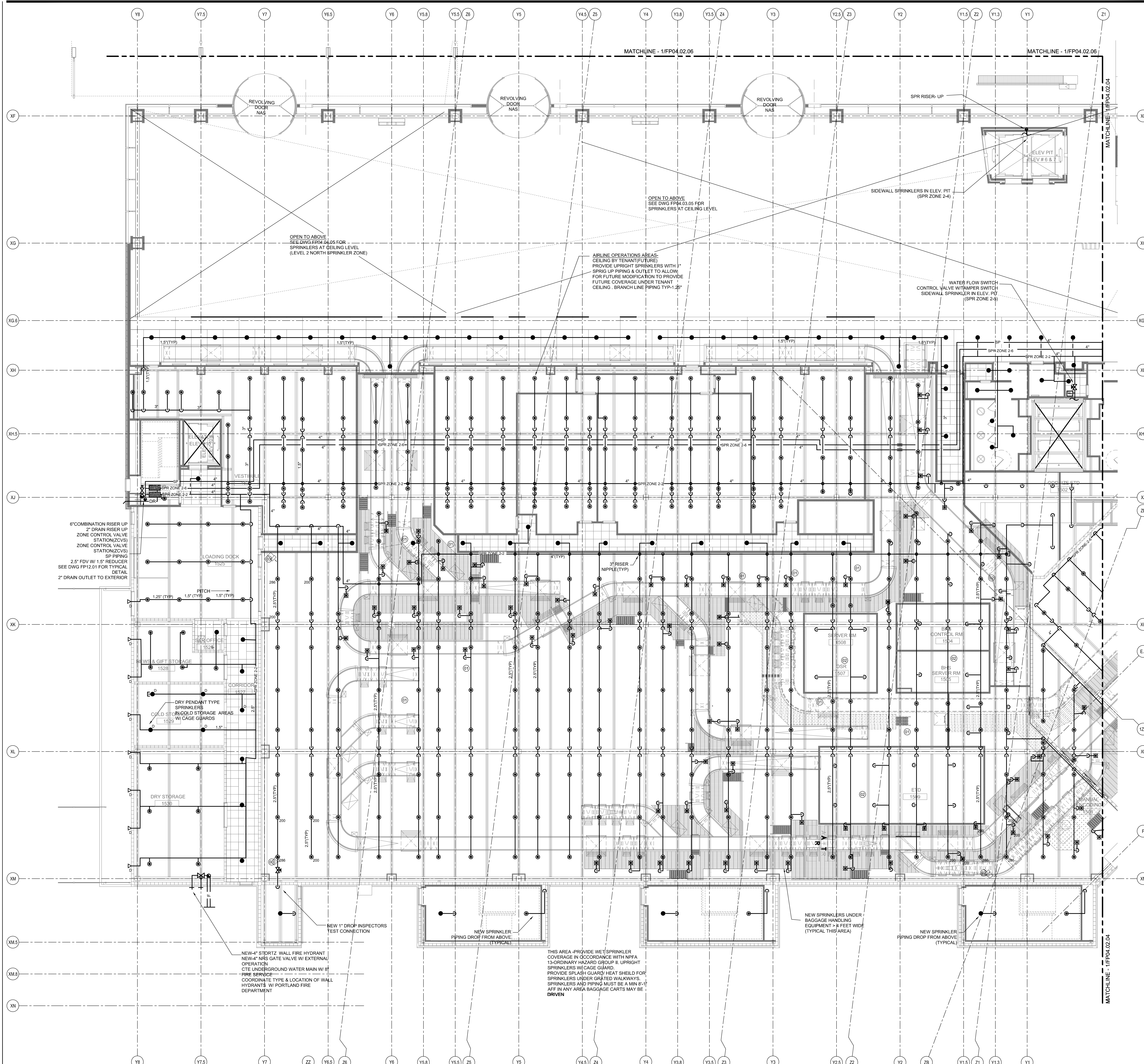
CAD File Name
 FP04.02.06.dwg

Description
 FIRE PROTECTION PLAN - LEVEL 2 - ZONE 6

Scale
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FP04.02.06

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SHEET NOTES

- 01 COORDINATE SPRINKLER LOCATION & PIPING WITH MECHANICAL DUCTWORK IN SAME CEILING BAY. FOLLOW OBSTRUCTION RULES OF NFPA 13.
- 02 UPRIGHT SPRINKLERS ABOVE 8' AFF ACT CEILING WITH BAGGAGE HANDLING CONVEYORS AT SLAB LEVEL. SPRINKLER PIPING TO ALSO DROP TO CONCEALED PENDANT SPRINKLERS AT ACT CEILING LEVEL.
- 03 UNIT HEATER - COORDINATE SPRINKLER TEMPERATURE RATINGS WITH THIS & ALL HEAT SOURCES PER NFPA 13(TYPICAL).

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 Portland, Maine 04102

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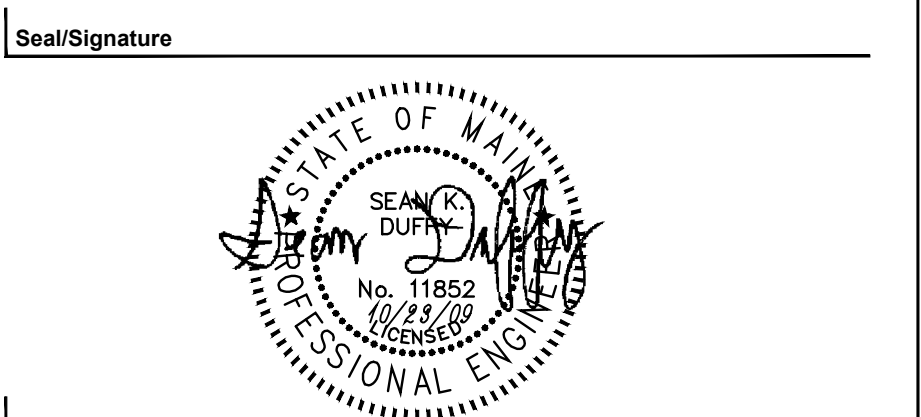
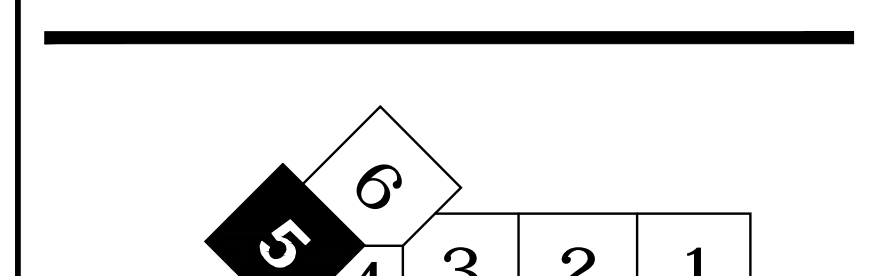
2020 K Street, NW
 Suite 200
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 Telephone 202.721.5200
 Facsimile 202.872.8587

GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

Issue	Date & Issue Description	By	Check
01	07/11/08	PWZ	RHB
02	09/22/08	SKD	WMC
03	12/03/08	SKD	WMC
04	01/23/09	MHY	JLD
05	10/26/09	JLD	SKD

KEY PLAN



Project Name
 P1W Terminal Expansion

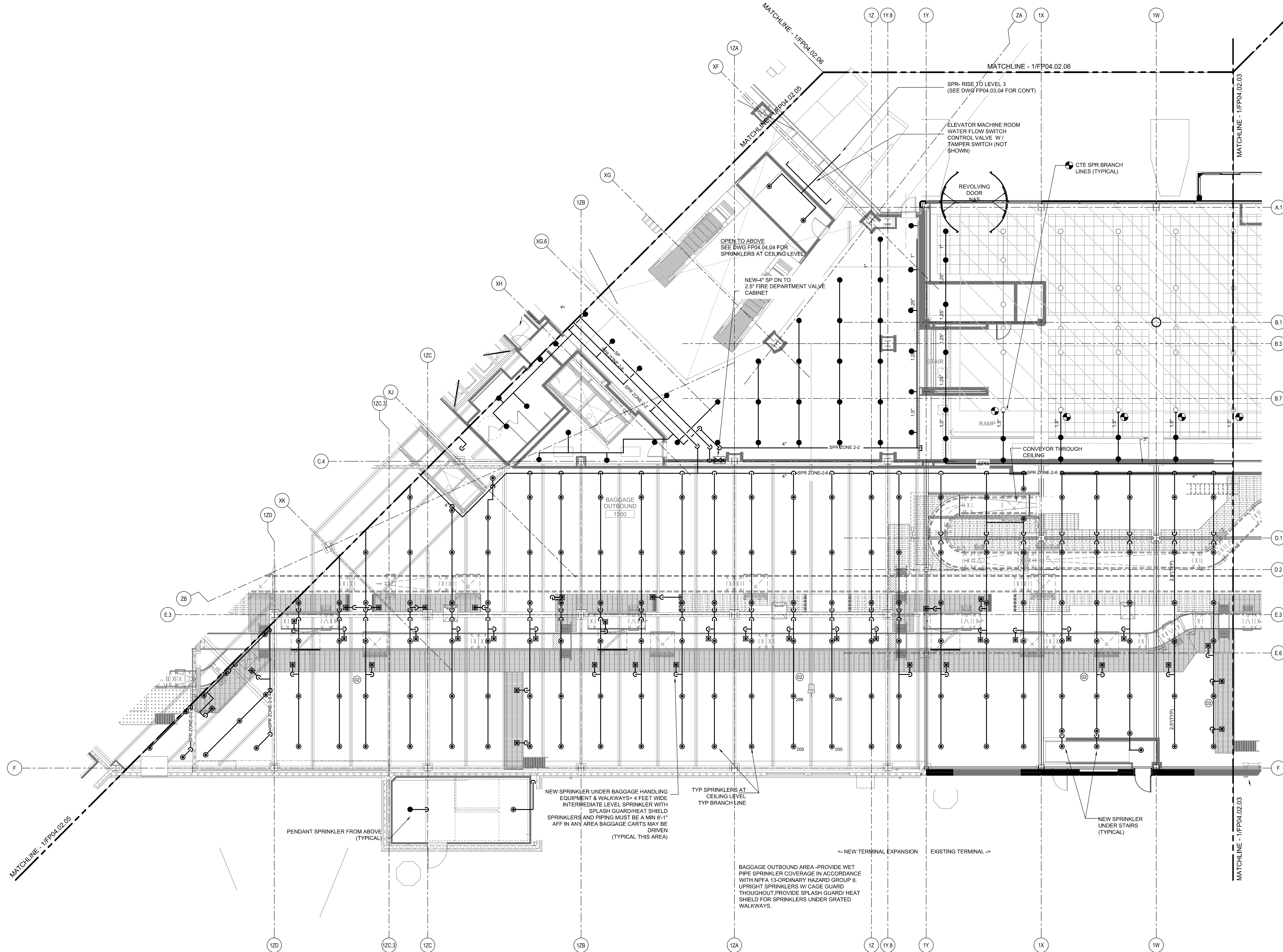
Project Number
 08.0395.000
 CAD File Name
 FP04.02.05
 Description
 FIRE PROTECTION PLAN - LEVEL 2 - ZONE 5

Scale
 1/8" = 1'-0"

FP04.02.05

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FIRE PROTECTION PLAN - LEVEL 2 - ZONE 5
 SCALE: 1/8"=1'-0"



SHEET NOTES

- 01 UNIT HEATER - COORDINATE SPRINKLER TEMPERATURE RATINGS PER NFPA 13.
- 02 SPRINKLERS AND PIPING MUST BE INSTALLED A MINIMUM OF 8'-1" ABOVE FINISHED FLOOR IN ANY LOCATIONS WHERE BAGGAGE CARTS CAN BE DRIVEN. THIS NOTE IS APPLICABLE TO ALL BAGGAGE HANDLING AREAS.

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Washington, DC 20006
Telephone 202.721.5200
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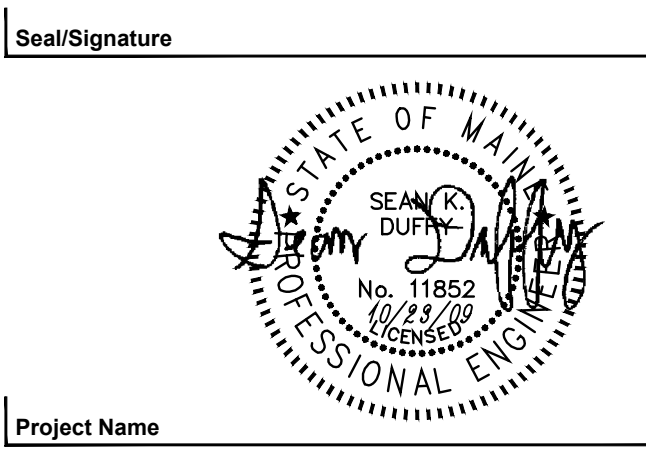
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GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

Issue	Date & Issue Description	By	Check
01	12/17/08		
02	TSA 70% SUBMISSION	DMY	JLD
03	95% CONSTRUCTION DOCUMENTS	MHY	JLD
04	10/26/09	JLD	SKD
	ISSUED FOR PERMIT		



Project Name
PJM Terminal Expansion

Project Number
08.0395.000

CAD File Name
FP04.02.04.dwg

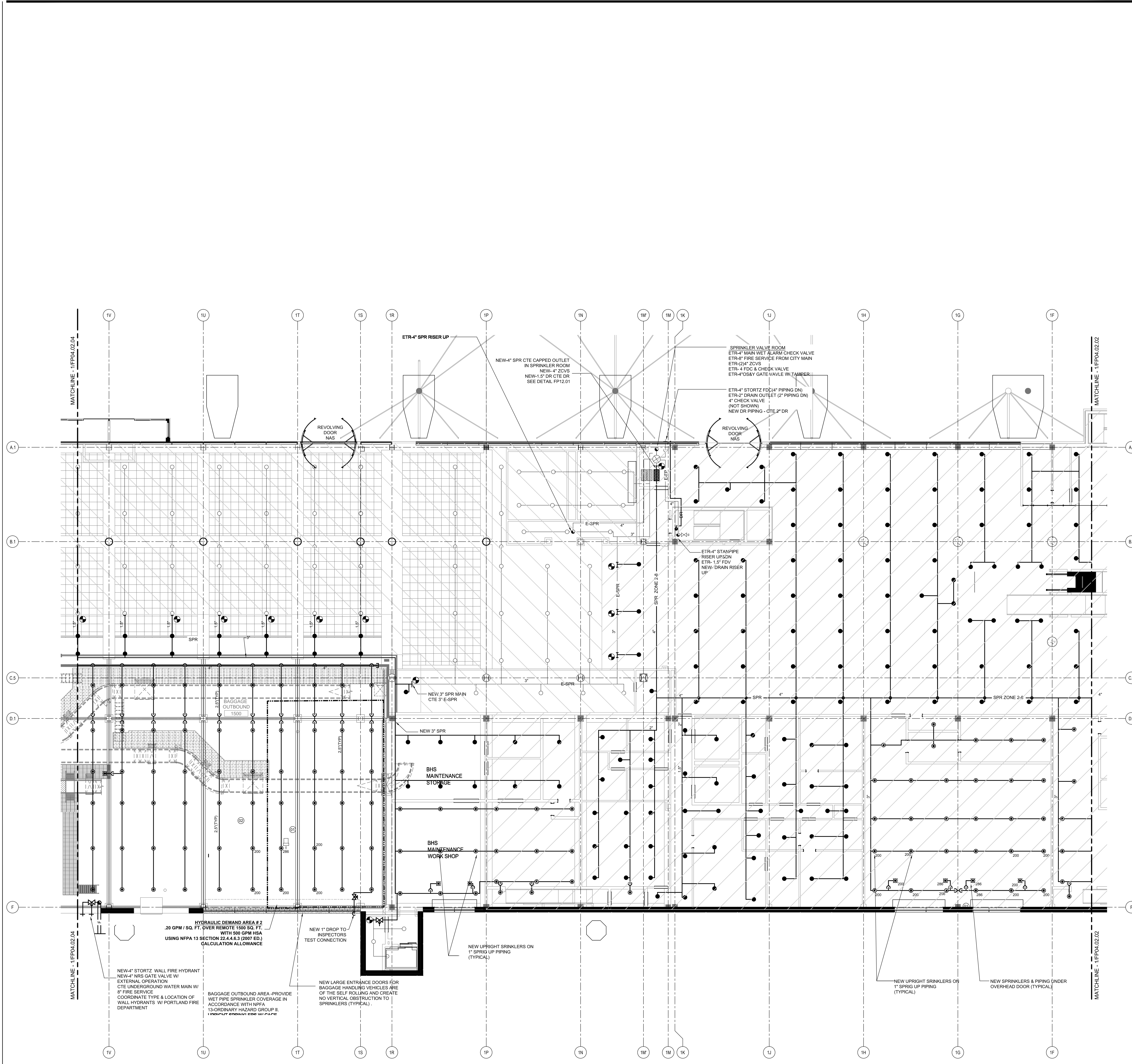
Description
FIRE PROTECTION PLAN - LEVEL 2 - ZONE 4

Scale
1/8" = 1'-0"

Ref. North

FP04.02.04

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- ### SHEET NOTES
- 01 UNIT HEATER - COORDINATE SPRINKLER TEMPERATURE RATINGS PER NFPA 13.
 - 02 SPRINKLERS AND PIPING MUST BE INSTALLED A MINIMUM OF 8'-1" ABOVE FINISHED FLOOR IN ANY LOCATIONS WHERE BAGGAGE CARTS CAN BE DRIVEN. THIS NOTE IS APPLICABLE TO ALL BAGGAGE HANDLING AREAS.
 - 03 SEE SHEET FP.12.02 FOR SECTIONS OF BAGGAGE HANDLING AREAS.

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 Portland, Maine 04102

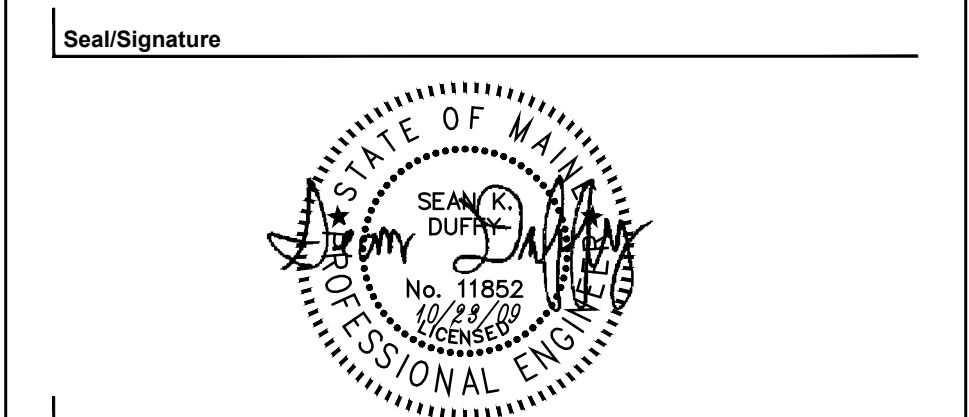
Gensler
 2020 K Street, NW
 Suite 200
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 Telephone 202.721.5200
 Facsimile 202.872.8587

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 343 Gopher Road, South Portland, ME 04106
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- ### GENERAL NOTES
- A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

Issue	Date & Issue Description	By	Check
01	12/17/08		
02	01/23/09	TS&A 70% SUBMISSION	
03	10/26/09	95% CONSTRUCTION DOCUMENTS	
04	10/26/09	ISSUED FOR PERMIT	



Project Name: PVM Terminal Expansion
 Project Number: 08.0395.000
 CAD File Name: FP04.02.03.dwg
 Description: FIRE PROTECTION PLAN - LEVEL 2 - ZONE 3

Scale: 1/8" = 1'-0"
 Ref. North

FP04.02.03

FIRE PROTECTION PLAN - LEVEL 2 - ZONE 3
 SCALE: 1/8"=1'-0"

SHEET NOTES

01 UNIT HEATERS- COORDINATE SPRINKLER TEMPERATURE RATINGS PER NFPA 13.

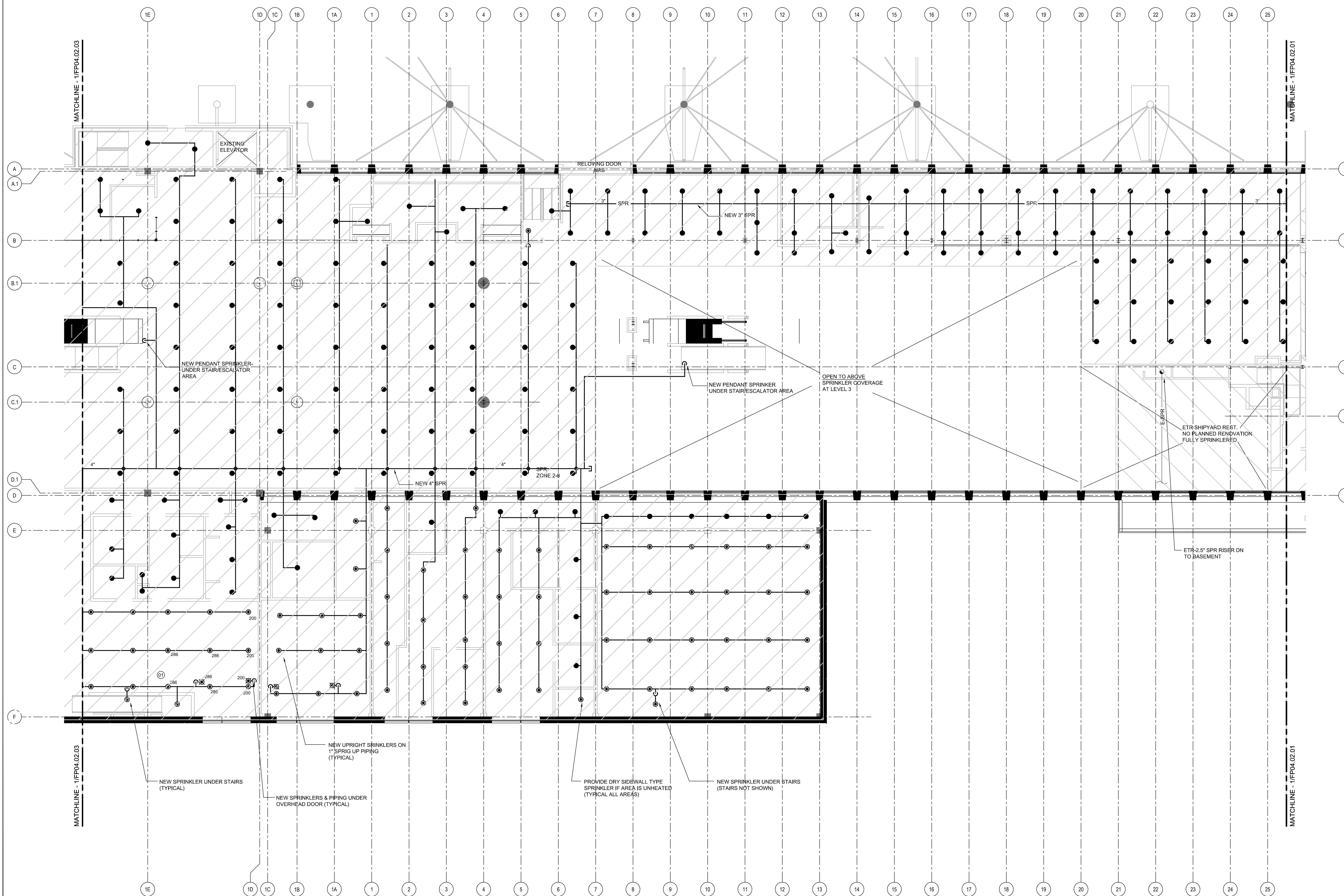
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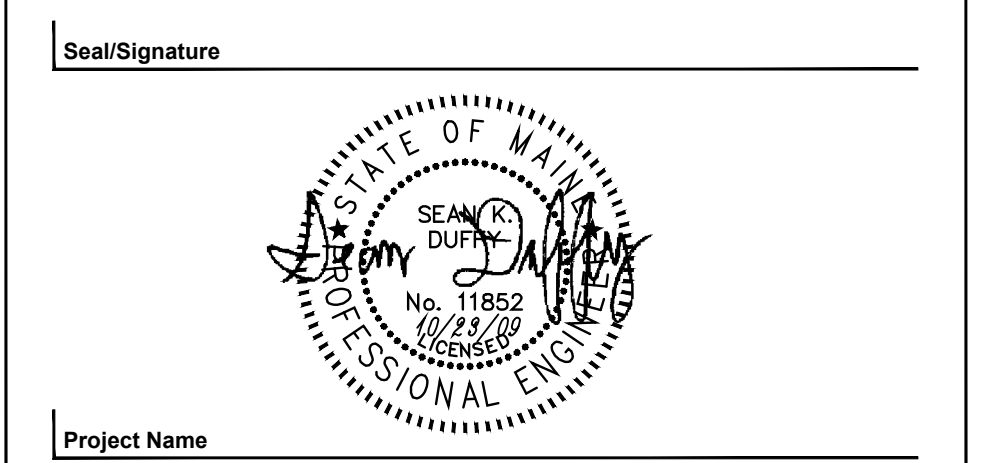
FIRE RISK MANAGEMENT, INC.
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GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

Issue	Date & Issue Description	By	Check
01	07/11/08	PWZ	RHB
02	09/22/08	SKD	WMC
03	12/03/08	SKD	WMC
04	01/23/09	MHY	JLD
05	10/26/09	JLD	SKD

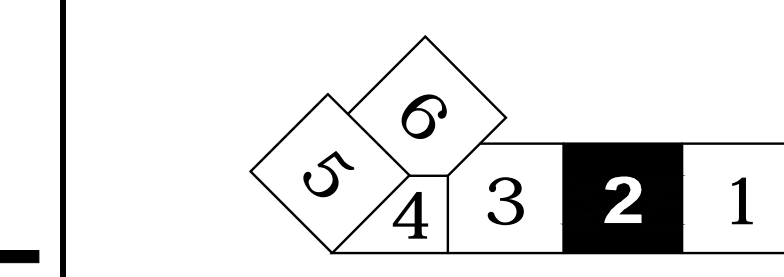


Project Name: PWM Terminal Expansion
Project Number: 08.0395.000
CAD File Name: FP04.02.02.dwg
Description: FIRE PROTECTION PLAN - LEVEL 2 - ZONE 2

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

FP04.02.02

KEY PLAN



FIRE PROTECTION PLAN - LEVEL 2 - ZONE 2
SCALE: 1/8"=1'-0"

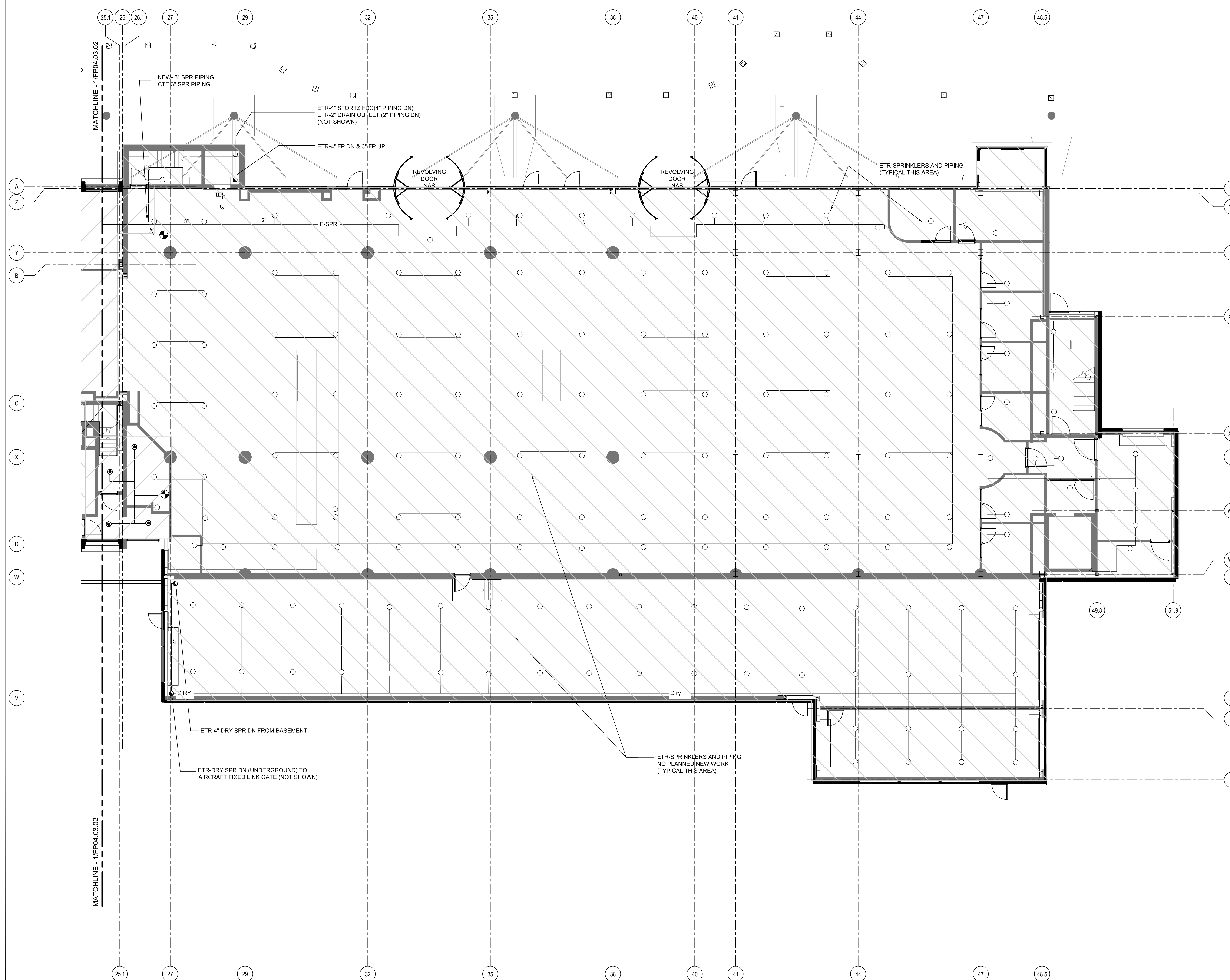
SHEET NOTES

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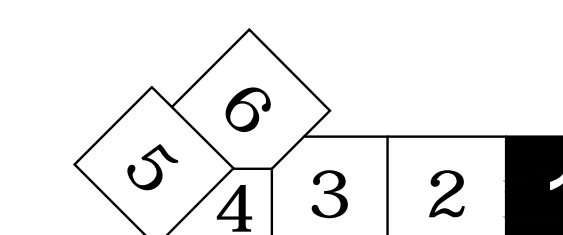


GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

Issue	Date & Issue Description	By	Check
01	09/22/08	SKD	WMC
02	12/03/08	SKD	WMC
03	01/23/09	MHY	JLD
04	10/26/09	JLD	SKD

KEY PLAN



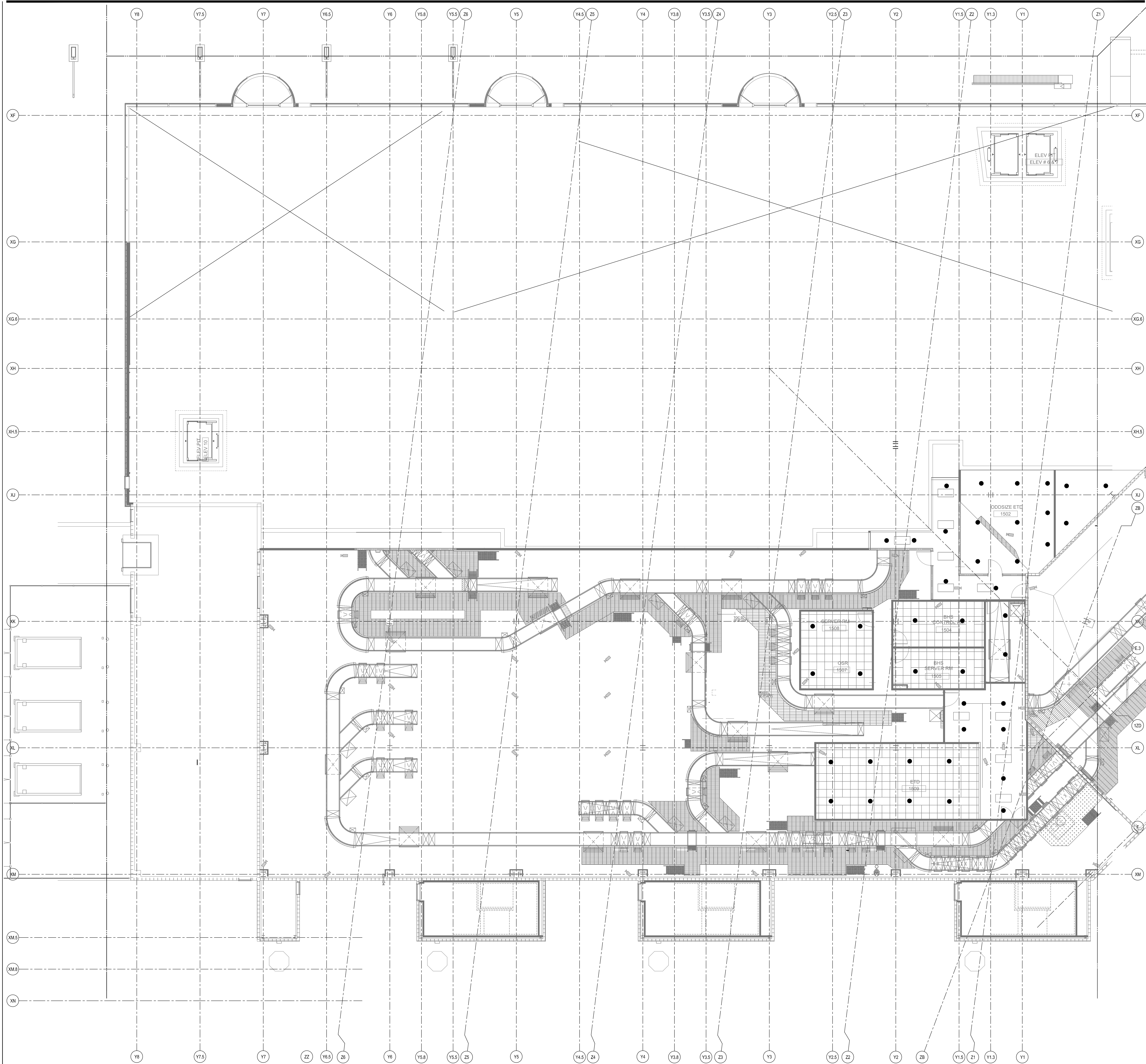
Scale
1/8" = 1'-0"



FP04.02.01

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FIRE PROTECTION PLAN - LEVEL 2 - ZONE 1
SCALE: 1/8"=1'-0"



SHEET NOTES

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Gensler
 2020 K Street, NW
 Suite 200
 Washington, DC 20006
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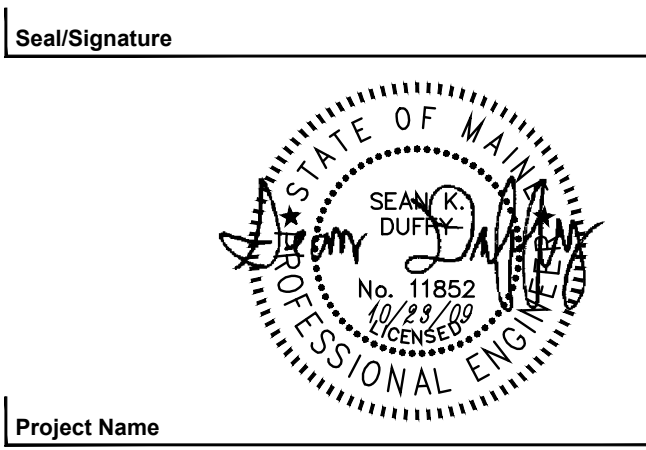
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Issue	Date & Issue Description	By	Check
01	10/26/09 ISSUED FOR PERMIT	RDV	SKD

GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND AND GENERAL NOTES.



Project Name
 P1W Terminal Expansion

Project Number
 08.0395.000

CAD File Name
 FP04.01.05.dwg

Description
 FIRE PROTECTION PLAN - LEVEL 1 - ZONE 5

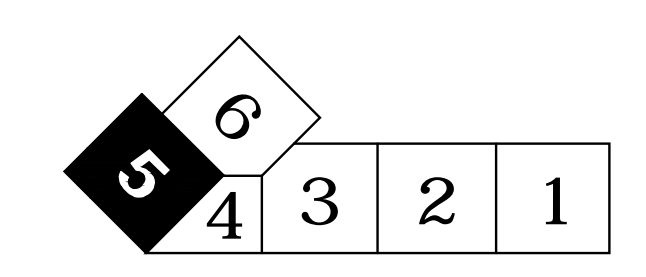
Scale
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Ref. North

FP04.01.05

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KEY PLAN



FIRE PROTECTION PLAN - LEVEL 1 - ZONE 5
 SCALE: 1/8" = 1'-0"

SHEET NOTES

01 DEMOLISH AND REMOVE ALL SPRINKLERS AND PIPING IN HATCHED AREA. EXCEPTION: SPRINKLER MAIN PIPING TO REMAIN IF SO NOTED. REMOVAL & PATCHING WORK SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

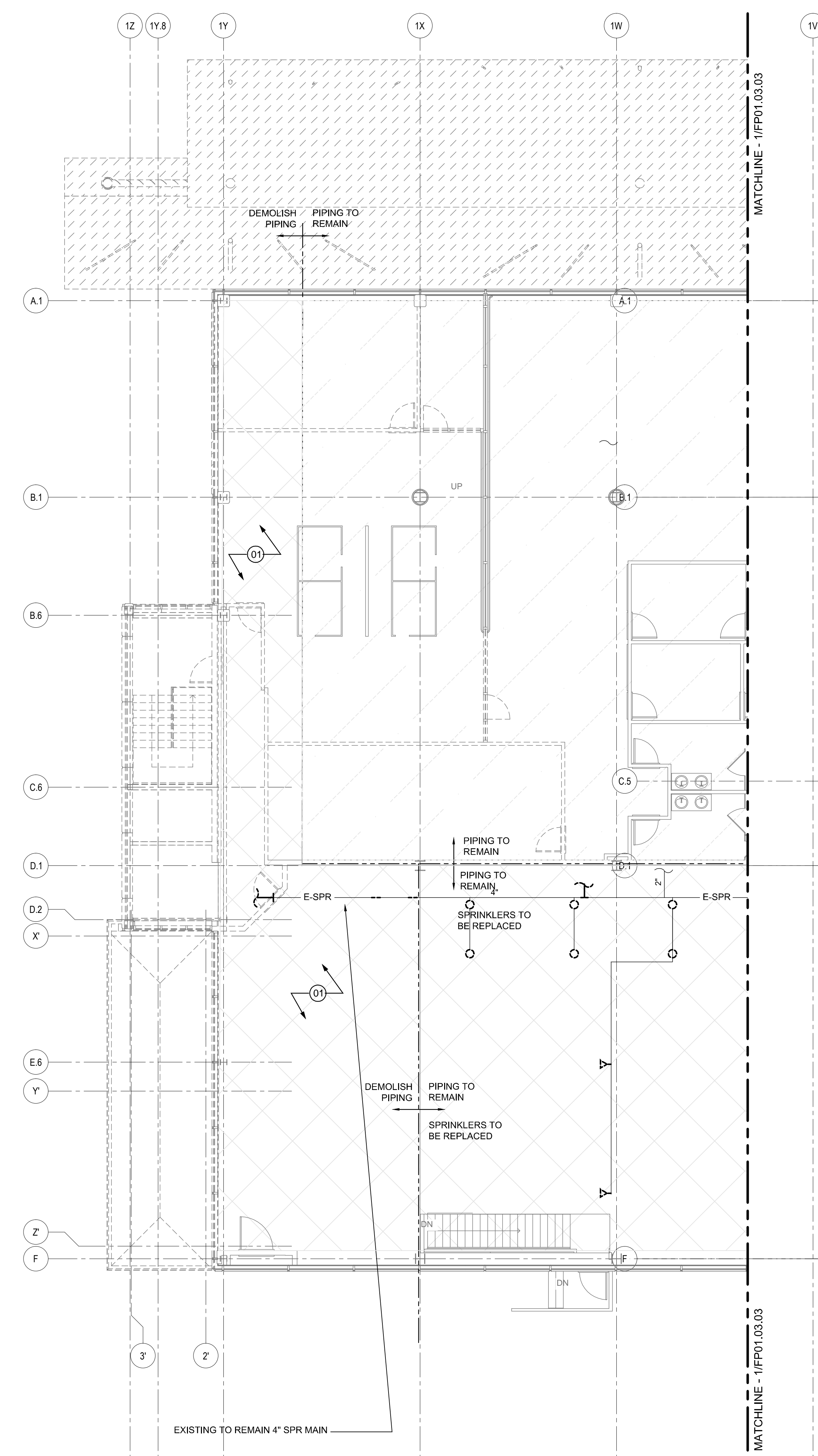
Portland International Jetport

1001 Westbrook Street
Portland, Maine 04102

Gensler
2020 K Street, NW
Suite 200
Washington, DC 20006
Telephone 202.721.5200
Facsimile 202.872.8587

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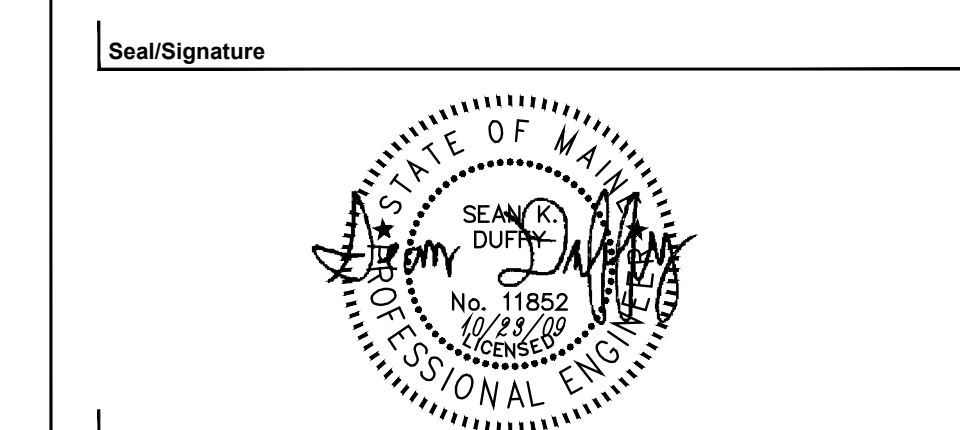
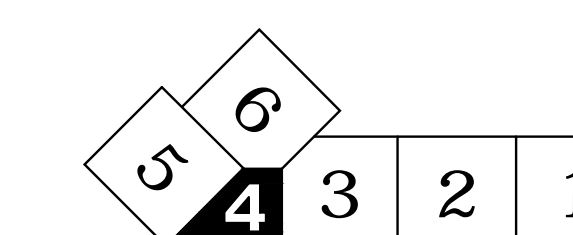


GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

Issue	Date & Issue Description	By	Check
01	01/23/09	MHY	JLD
95% CONSTRUCTION DOCUMENTS			
02	10/26/09	JLD	SKD
ISSUED FOR PERMIT			

KEY PLAN



Project Name
PJM Terminal Expansion

Project Number
08.0395.000

CAD File Name
FP04.03.04.dwg

Description
FIRE PROTECTION DEMOLITION PLAN
LEVEL 3 - ZONE 4

Scale
1/8" = 1'-0"

Ref. North

FP01.03.04

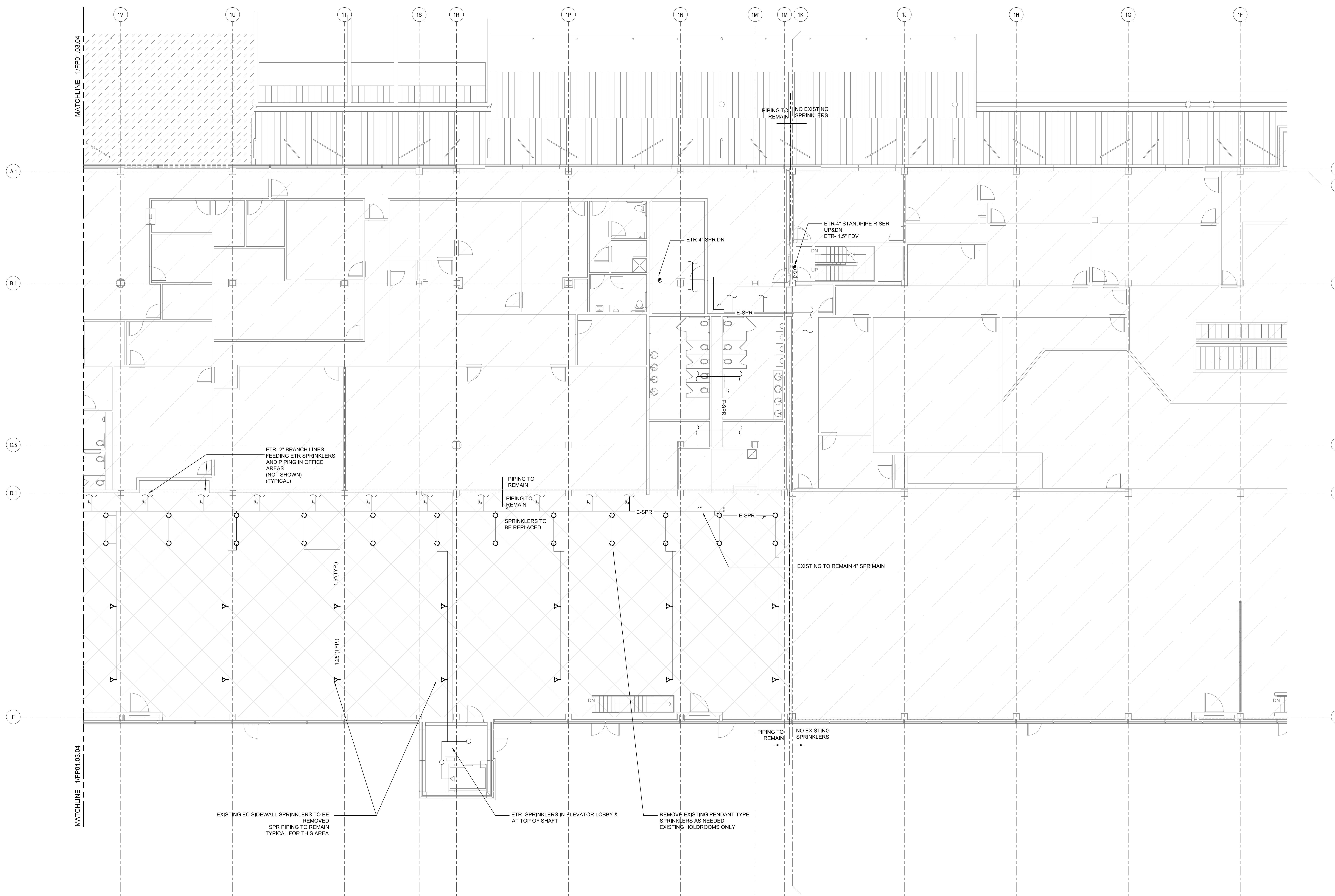
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Jetport**
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Portland, Maine 04102

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2020 K Street, NW
Suite 200
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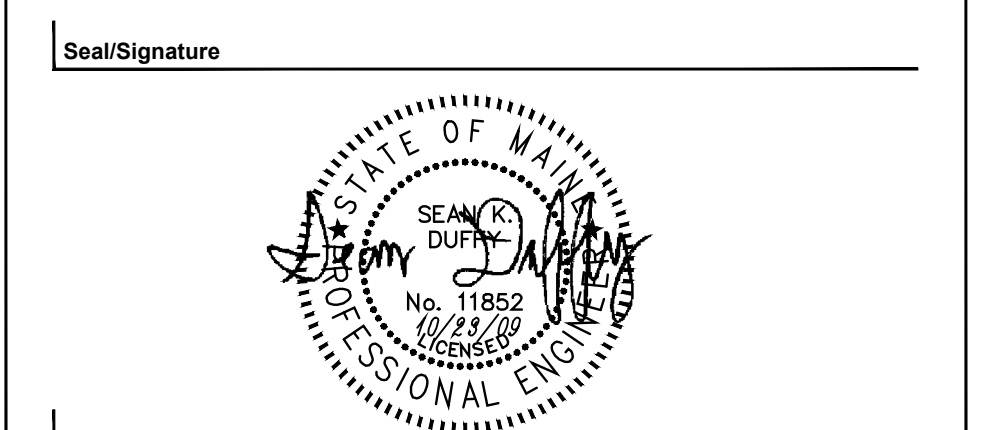
FIRE RISK MANAGEMENT, INC.
1 Great Street
Bath, ME 04510 P: (207) 442-7268
www.fire-risk.com



GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

Issue	Date & Issue Description	By	Check
01	01/23/09	MHY	JLD
02	10/26/09	JLD	SKD



Project Name
PJM Terminal Expansion

Project Number
08.0395.000

CAD File Name
FP04.03.03.dwg

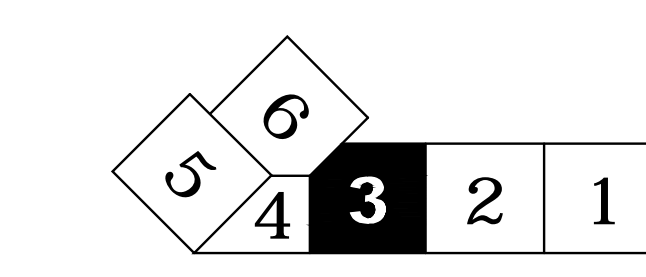
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FIRE PROTECTION DEMOLITION PLAN
LEVEL 3 - ZONE 3

Scale
1/8" = 1'-0"

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KEY PLAN



FIRE PROTECTION DEMOLITION PLAN - LEVEL 3 - ZONE 3

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

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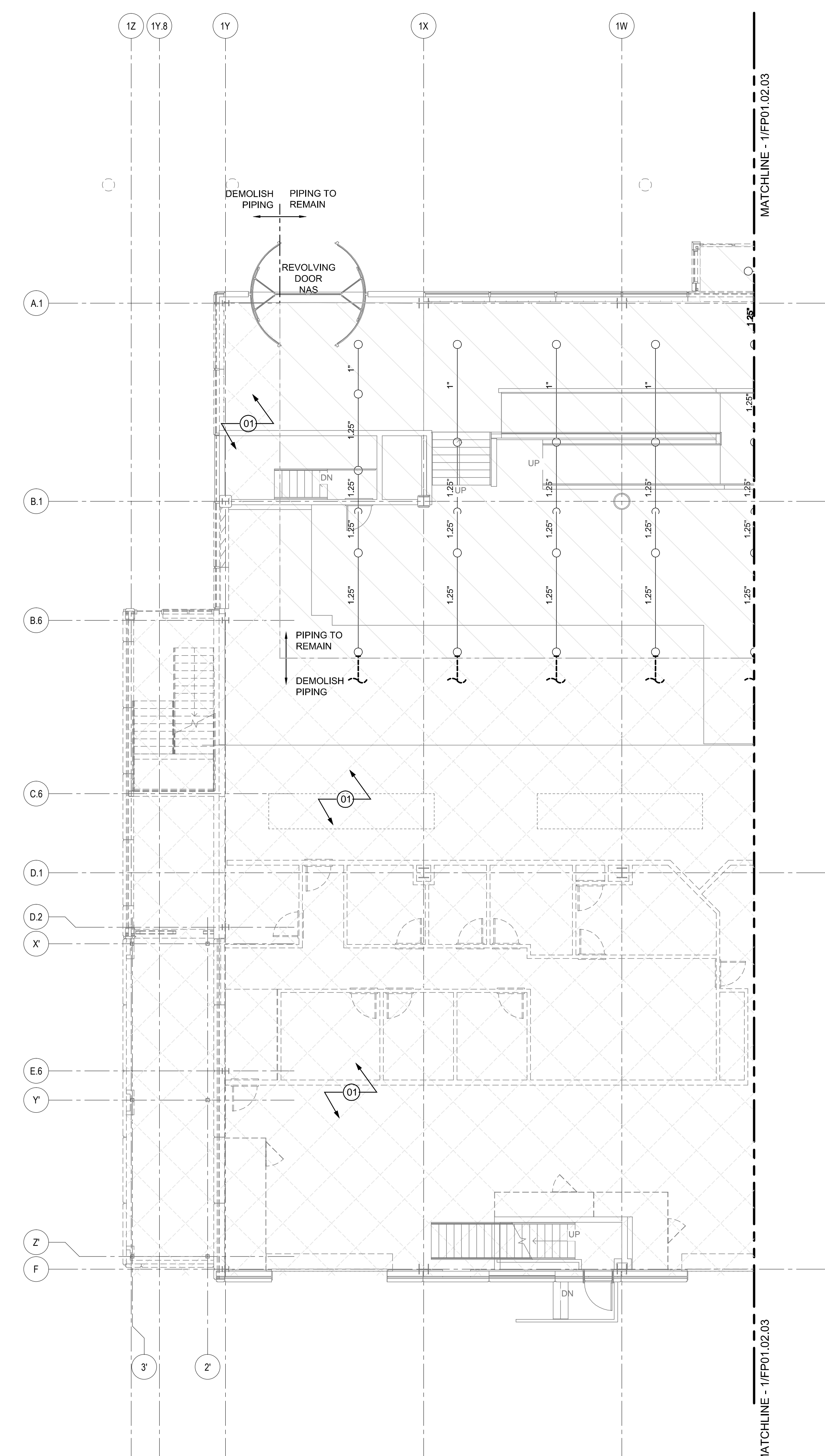
Portland International Jetport

1001 Westbrook Street
Portland, Maine 04102

Gensler
2020 K Street, NW
Suite 200
Washington, DC 20006
Telephone 202.721.5200
Facsimile 202.872.8587

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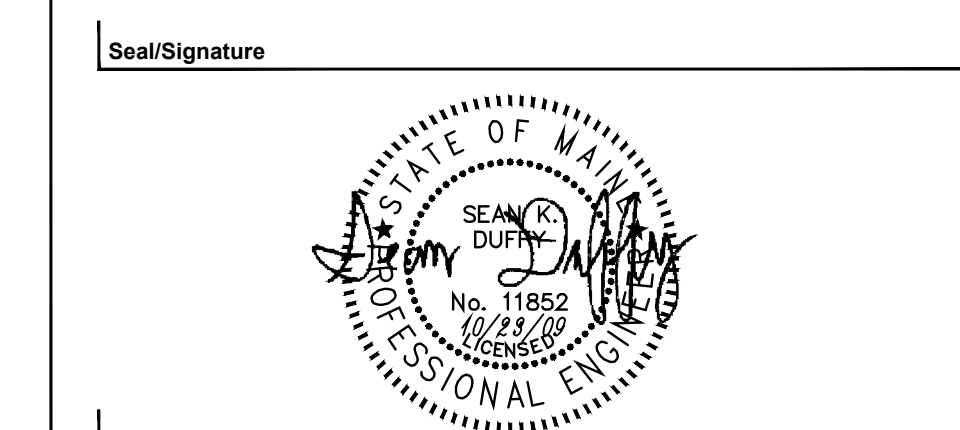
FIRE RISK MANAGEMENT, INC.
1 Great Street
South Yarmouth, ME 04178
207-442-7268
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GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

Issue	Date & Issue Description	By	Check
01	01/23/09	MHY	JLD
95% CONSTRUCTION DOCUMENTS			
02	10/26/09	JLD	SKD
ISSUED FOR PERMIT			



Project Name
PJM Terminal Expansion

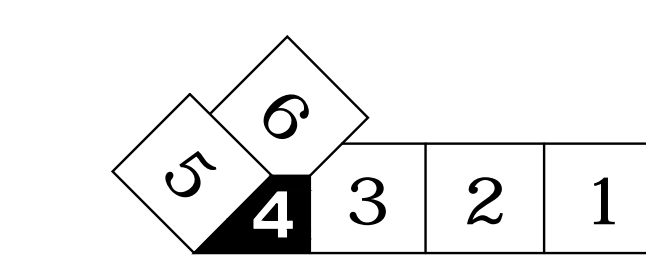
Project Number
08.0395.000

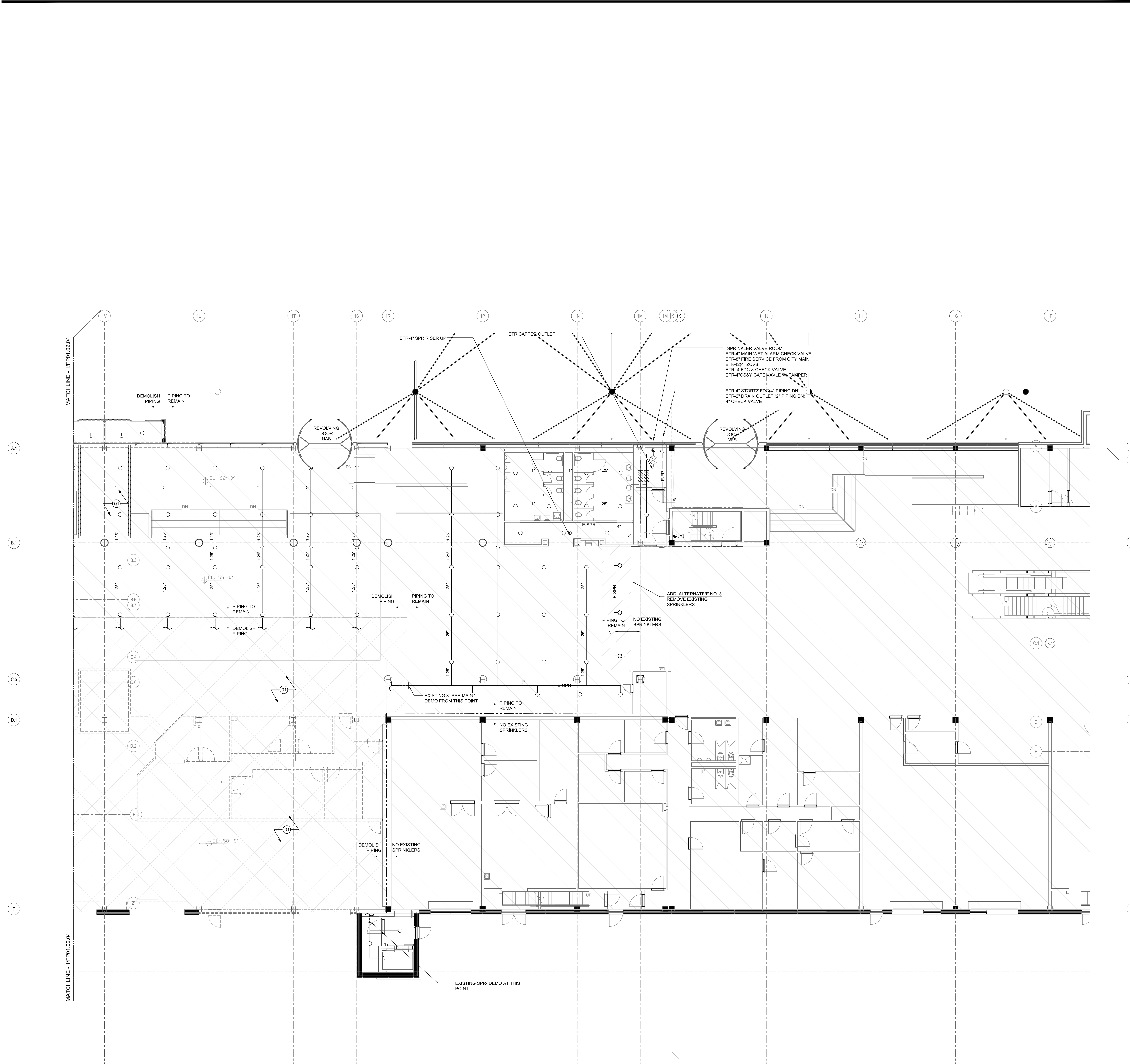
CAD File Name
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Description
FIRE PROTECTION DEMOLITION PLAN
LEVEL 2 - ZONE 4

Scale
1/8" = 1'-0"

KEY PLAN





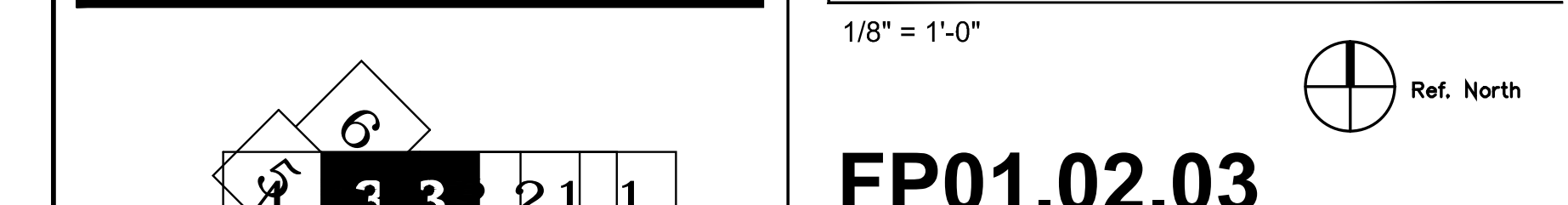
SHEET NOTES

- 01 DEMOLISH AND REMOVE ALL SPRINKLERS AND PIPING IN HATCHED AREA. EXCEPTION: SPRINKLER MAIN PIPING TO REMAIN IF SO NOTED. REMOVAL & PATCHING WORK SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

GENERAL NOTES

A SEE SHEET FP00.01 FOR LEGEND, SCHEDULES & GENERAL NOTES.

KEY PLAN



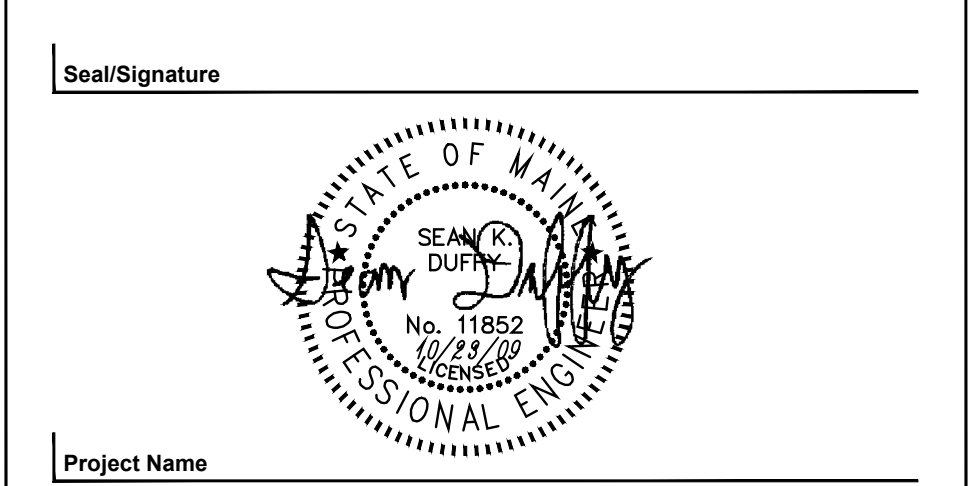
Portland International Jetport
 1001 Westbrook Street
 Portland, Maine 04102

Gensler
 2020 K Street, NW
 Suite 200
 Washington, DC 20006
 Telephone 202.721.5200
 Facsimile 202.872.8587

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 345 Gorton Road South Portland, ME 04106 P: (207) 741-1770 F: (207) 774-1244 www.oest.com
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 1 Great Street
 South Portland, ME 04106 P: (207) 442-7200
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Issue	Date	Issue Description	By	Check
01	12/17/08	TS&A 70% SUBMISSION	DMH	JLD
02	01/23/09	95% CONSTRUCTION DOCUMENTS	MHY	JLD
03	10/26/09	ISSUED FOR PERMIT	JLD	SKD



Project Name
 PWM Terminal Expansion

Project Number
 08.0395.000

CAD File Name
 FP01.02.03.dwg

Description
 FIRE PROTECTION DEMOLITION PLAN
 LEVEL 2 - ZONE 3

Scale
 1/8" = 1'-0"

FP01.02.03

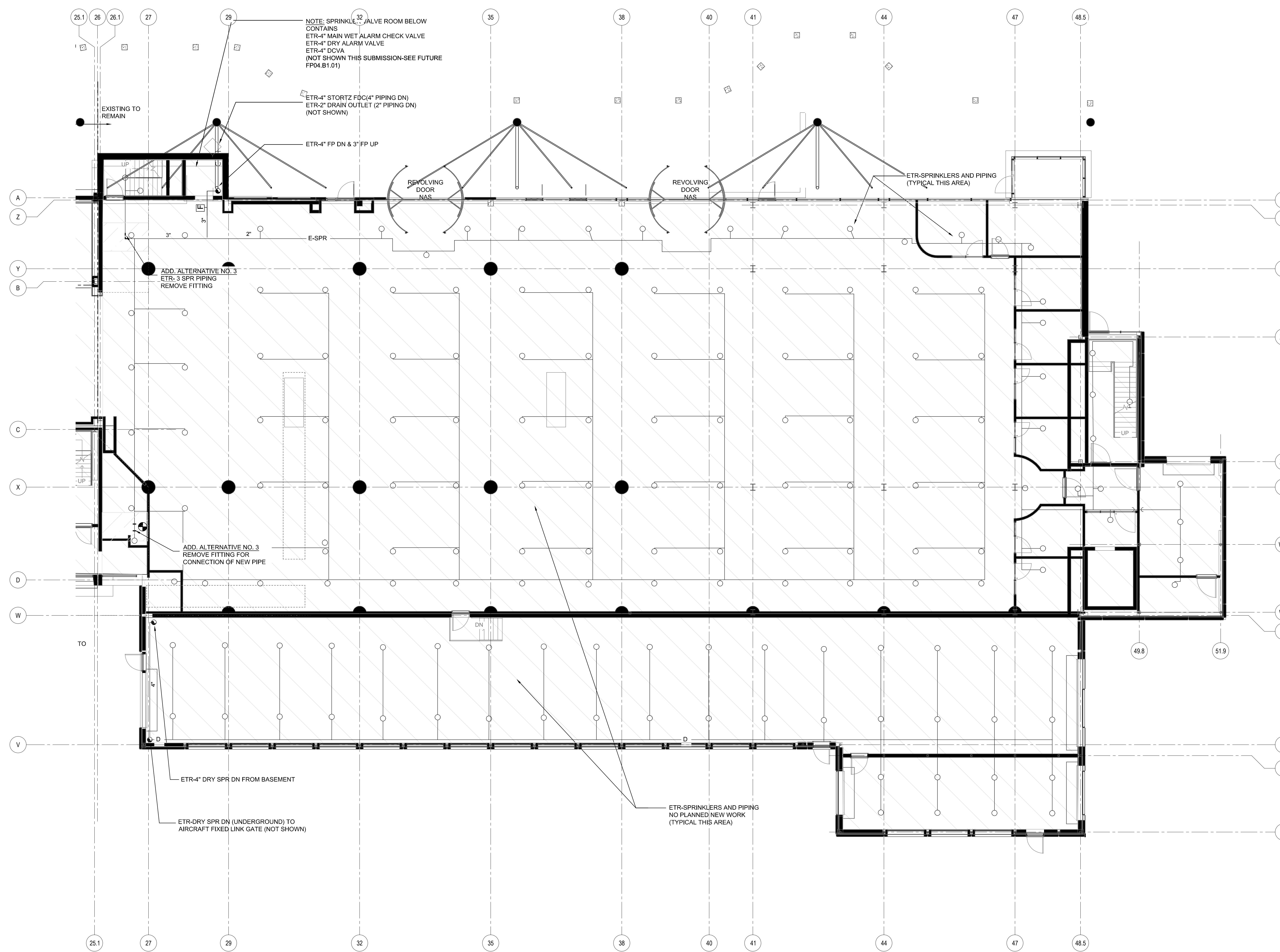
SHEET NOTES

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Jetport
1001 Westbrook Street
Portland, Maine 04102

Gensler
2020 K Street, NW
Suite 200
Washington, DC 20006
Telephone 202.721.5200
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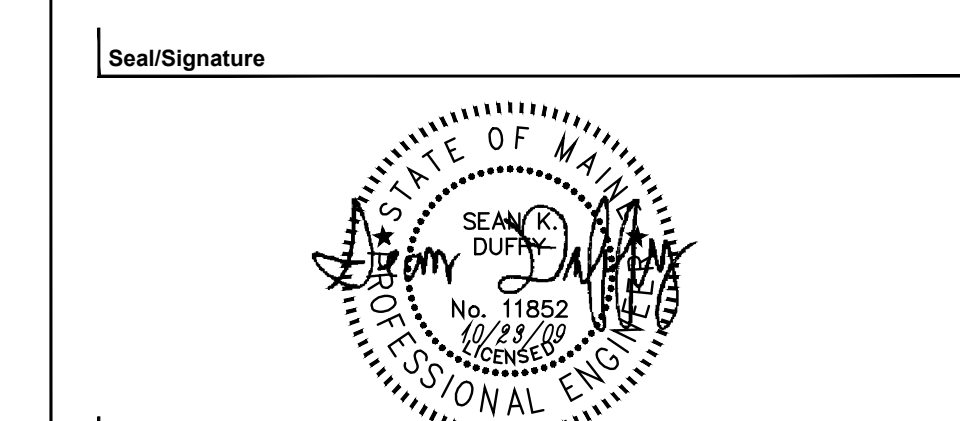
FIRE RISK MANAGEMENT, INC.
1 Front Street
Portland, ME 04101
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GENERAL NOTES

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Issue	Date	Issue Description	By	Check
01	09/22/08	DESIGN DEVELOPMENT	SKD	WMC
02	12/03/08	75% CONSTRUCTION DOCUMENTS	SKD	WMC
03	01/23/09	95% CONSTRUCTION DOCUMENTS	MHY	JLD
04	10/26/09	ISSUED FOR PERMIT	JLD	SKD



Project Name
PJM Terminal Expansion

Project Number
08.0395.000
CAD File Name
FP01.02.01.dwg

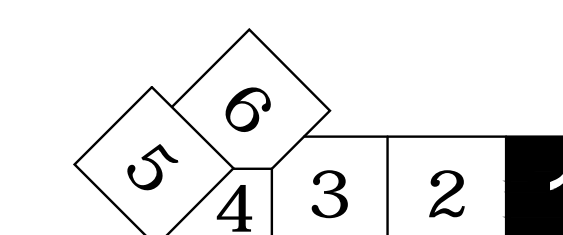
Description
FIRE PROTECTION DEMOLITION PLAN
LEVEL 2 - ZONE 1

Scale
1/8" = 1'-0"

FP01.02.01

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KEY PLAN



FIRE PROTECTION DEMOLITION PLAN - LEVEL 2 - ZONE 1

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

GENERAL SYMBOLS

●	NEW CONCEALED PENDANT SPRINKLER (SEE SCHEDULE)
○	NEW UPRIGHT SPRINKLER (SEE SCHEDULE)
▽	NEW SIDEWALL SPRINKLER (SEE SCHEDULE)
⊠	NEW UPRIGHT SPRINKLER UNDER DUCTWORK/CONVEYORS/PLATFORMS (SEE SCHEDULE)
○	EXISTING TO REMAIN SPRINKLER (ETR)
⊠	EXISTING TO BE REMOVED SPRINKLER (ETBR)
—	NEW FIRE PROTECTION PIPING (OR VALVES)
—	RISE OR DROP
—	EXISTING FIRE PROTECTION PIPING TO REMAIN (ETR)
- - -	EXISTING FIRE PROTECTION PIPING TO BE REMOVED (ETBR)
+	CONNECT TO EXISTING (CTE)
↑	PIPE RISER
↓	PIPE HANGER
↔	CHECK VALVE
⊥	PIPE CAP OR PLUG
⊠	CONTROL VALVE (WITH TAMPER SWITCH)
⊠	ZONE CONTROL VALVE STATION (GATE VALVE, CHECK VALVE, FLOW SWITCH, DRAIN, SEE FP12.01)
○	HYDRAULIC REFERENCE POINT
⊠	MAIN ALARM CHECK VALVE ASSEMBLY RISER (SEE FP12.01)
⊠	DOUBLE CHECK VALVE ASSEMBLY (W/ 2 TAMPER SWITCHES)
+	STORTZ TYPE FIRE DEPARTMENT CONNECTION
→	PIPE CONTINUATION
○	POINT OF CONNECTION
⊠	PRESSURE GAUGE W/PETCOCK
⊠	FLOW SWITCH
⊠	PRESSURE SWITCH
+	DRAIN VALVE AND CAP
1"	PIPE SIZE (DIAMETER)

PIPING SYMBOLS

SYMBOLS	ABBREVIATION	DESCRIPTION
—	DR	DRAIN PIPING
—	SPR	WET SPRINKLER PIPING
—	SPR-ZONE X	WET SPRINKLER PIPING (FA ZONE INDICATED)
—	F	FIRE SERVICE
—	F	FIRE SERVICE (UNDERGROUND)
—	FP	COMBINED FIRE PROTECTION PIPING (SPR/SP)
—	SP	STANPIPE PIPING
—	FDC	PIPING FROM FD PUMPER CONNECTION

HATCHING DESCRIPTION

HATCHING	DESCRIPTION
▨	EXISTING AREA - NO WORK EXPECTED
▩	BASE BID - DEMOLITION
▧	ADD. ALTERNATIVE NO. 3

GENERAL NOTES

- ALL FIRE PROTECTION GENERAL NOTES, SYMBOLS LISTS & DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL SPRINKLER DRAWINGS FOR THIS PROJECT.
- THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND EXACT LOCATIONS AND ARRANGEMENTS OF EXISTING NEW EQUIPMENT, DUCTWORK, PIPING AND OTHER COMPONENTS SHALL BE DETERMINED IN THE FIELD WITH DUE CONSIDERATION OF STRUCTURAL, ELECTRICAL AND ARCHITECTURAL SYSTEMS. EXISTING STRUCTURAL SYSTEMS SHALL NOT BE MOVED WITHOUT THE EXPRESS PERMISSION OF THE ENGINEER.
- THE PROJECT SHALL BE PHASED IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED PHASING PLAN. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER/ARCHITECT FOR THE SEQUENCING AND TIMING OF OPERATIONS PRIOR TO COMMENCING WORK. SEE SPECIFICATIONS.
- AESTHETICS ARE A PRIORITY FOR THIS PROJECT. ALL PIPING TO BE CONCEALED UNLESS OTHERWISE NOTED. ALL AREAS WITH CEILINGS TO HAVE CONCEALED PLATE TYPE SPRINKLERS LOCATED AT THE CENTER OF SUSPENDED CEILING TILES IN A SYMMETRICAL PATTERN APPROVED BY THE ARCHITECT. WHERE SPRINKLER LOCATIONS CONFLICT WITH OTHER SYSTEMS (I.E. SECURITY), CENTER OF TILE REQUIREMENT MAY BE WAIVED. SPRINKLER & SPRINKLER PLATE FINISH SHALL MATCH CEILING FINISH. ANY EXPOSED PIPING SHALL BE PAINTED TO MATCH CEILING FINISH. BID SHALL INCLUDE SPECIAL ORDERED SPRINKLER FINISHES FROM THE MANUFACTURER.
- WHERE INDICATED ON THE DRAWINGS, REMOVE OR RELOCATE EXISTING COMPONENTS AS REQUIRED TO ACCOMMODATE THE NEW WORK. REMOVALS SHALL INCLUDE ALL ASSOCIATED OFF-SITE DISPOSAL COSTS.
- EXISTING EQUIPMENT AND PIPING TO REMAIN IN SERVICE SHALL BE INSPECTED. ANY EQUIPMENT FOUND TO BE INOPERABLE SHALL BE REPORTED TO OWNER AND ENGINEER.
- FIRE PROTECTION CONTRACTOR SHALL ENSURE PROPOSED FIRE PROTECTION SYSTEM DESIGN MEETS ALL REQUIREMENTS OF NFPA-13, NFPA 415 AND AUTHORITY HAVING JURISDICTION REQUIREMENTS.
- SPRINKLER SYSTEM(S) SHALL BE HYDRAULICALLY DESIGNED TO PROVIDE MINIMUM FLOW RATES AT HYDRAULICALLY MOST REMOTE AREA AS REQUIRED BY OWNER'S INSURANCE UNDERWRITER AND NFPA 13. STANPIPE SYSTEM SHALL BE HYDRAULICALLY DESIGNED IN ACCORDANCE WITH NFPA 14 AND PORTLAND FIRE DEPARTMENT REQUIREMENTS. PORTLAND FIRE DEPARTMENT SHALL PROVIDE REQUIRED PRESSURE (65 PSIG).
- INSPECTION/TEST DRAIN ASSEMBLIES SHALL BE PIPED TO GRADE. COORDINATE LOCATIONS WITH OWNER'S REPRESENTATIVE. PIPING LOCATED OUTSIDE OF THE BUILDING SHALL BE GALVANIZED STEEL.
- ALL PIPE PENETRATIONS THRU FIRE RATED FLOOR/CEILING ASSEMBLIES SHALL BE FIREPROOFED BY THE SPRINKLER CONTRACTOR AS REQUIRED TO MEET REQUIRED RATING.
- MANUFACTURERS NAME & MODEL NUMBER ARE USED FOR DESCRIPTIVE PURPOSES ONLY & ARE INTENDED TO INDICATE THE STANDARD OF MATERIAL OR ARTICLES REQUIRED. IF ALLOWED BY SPECIFICATION, A SUBSTITUTE MAY BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE "SUBSTITUTION" SPECIFICATION SECTION.
- INSTALLATION SHALL PERMIT ACCESSIBILITY FOR SERVICE AND/OR REPLACEMENT OF EQUIPMENT PROVIDED. PROVIDE ACCESS PANELS TO GAIN ACCESS TO SPRINKLER SYSTEMS COMPONENTS THAT REQUIRE MAINTENANCE ACCORDING TO MANUFACTURERS LITERATURE.
- PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS & GUIDES AS NECESSARY TO PREVENT UNDUE STRAIN ON PIPING.
- FIRE PROTECTION CONTRACTOR TO COORDINATE ALL WORK WITH OTHER BUILDING TRADES. SOME RELOCATION OF EXISTING SPRINKLERS MAY BE NECESSARY TO ACCOMMODATE INSTALLATION OF NEW EQUIPMENT OR DUCTWORK. FIRE PROTECTION CONTRACTOR SHALL SUBMIT A COORDINATION DRAWING WITH PIPING ELEVATIONS SHOWN TO PREVENT CONSTRUCTION AND OPERATING INTERFERENCE.
- FILL AND PATCH ALL OPENINGS IN WALLS WHERE PIPES ARE OR HAVE BEEN REMOVED WITH UL LISTED FIRE ASSEMBLY APPROVED BY THE ARCHITECT. MAINTAIN FIRE RATING IF APPLICABLE.

NEW SPRINKLER SCHEDULE											
SYMBOL	MFG.	MODEL NO.	STYLE	LOCATION	ORIFICE SIZE	K FACTOR	TEMPERATURE RATING °F	SPRINKLER FINISH	ESCUTCHEON OR PLATE FINISH	COATING	REMARKS
●	TYCO	RF-II	CONCEALED PENDANT	NEW TERMINAL	1/2"	5.6	155	-	MATCH CEILING	-	QUICK RESPONSE ORDER CUSTOM PLATE FINISH IF NEEDED TO MATCH CEILING
*	TYCO	TY-FRB	UPRIGHT	AREAS W/O CEILING	1/2"	5.6	155 UNLESS NOTED	BRASS	N/A	-	X= TEMPERATURE RATING IF NOT 155
▽	TYCO	TY-FRB	VERTICAL SIDEWALL	HIGH WOOD CEILING	1/2"	5.6	200 UNLESS NOTED	WHITE OR BRASS	N/A OR WHITE	-	SPECS FOR INSTALLATION
▽	TYCO	SW-20	EX. COVERAGE SIDEWALL	HIGH WOOD CEILING	3/4"	11.2	200 UNLESS NOTED	WHITE OR BRASS	N/A OR WHITE	-	EXTENDED COVERAGE ORDINARY HAZARD SPRINKLER-SEE MANF. SPECS FOR INSTALLATION
○	TYCO	DS-C	DRY TYPE PENDANT	UNDER METAL EXT. CANOPY	1"	5.6	155 UNLESS NOTED	-	CROME OR CUSTOM	COATED FOR EXTERIOR USE	SEE MANF. SPECS FOR INSTALLATION
○	TYCO	TFP PH2	INSTITUTIONAL PENDANT	ROOM 3523	1/2"	5.6	165	-	CROME	-	SEE MANF. SPECS FOR INSTALLATION

SPRINKLER / STANDPIPE DESIGN CRITERIA (ALSO SEE SPECIFICATIONS)	
AREA / SYSTEM	DESIGN CRITERIA
BAGGAGE HANDLING AREAS	ORDINARY HAZARD GROUP II (NFPA 13)
PUBLIC PASSENGER AREAS (WAITING AREAS, CONCOURSE, SECURITY AREAS, ETC.)	ORDINARY HAZARD GROUP II (NFPA 13)
MERCANTILE AREAS	ORDINARY HAZARD GROUP II (NFPA 13)
PRIVATE OFFICES, CONFERENCE ROOMS, TOILETS	LIGHT HAZARD (NFPA 13)
STANDPIPE SYSTEMS	SYSTEM HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA 14. PORTLAND FD TO PROVIDE REQUIRED PRESSURE (65 PSIG).

*ALL SPRINKLER SYSTEM HYDRAULIC CALCULATIONS TO INCLUDE A 500 GPM HOSE STREAM ALLOWANCE

NARRATIVE OF FIRE SUPPRESSION SCOPE

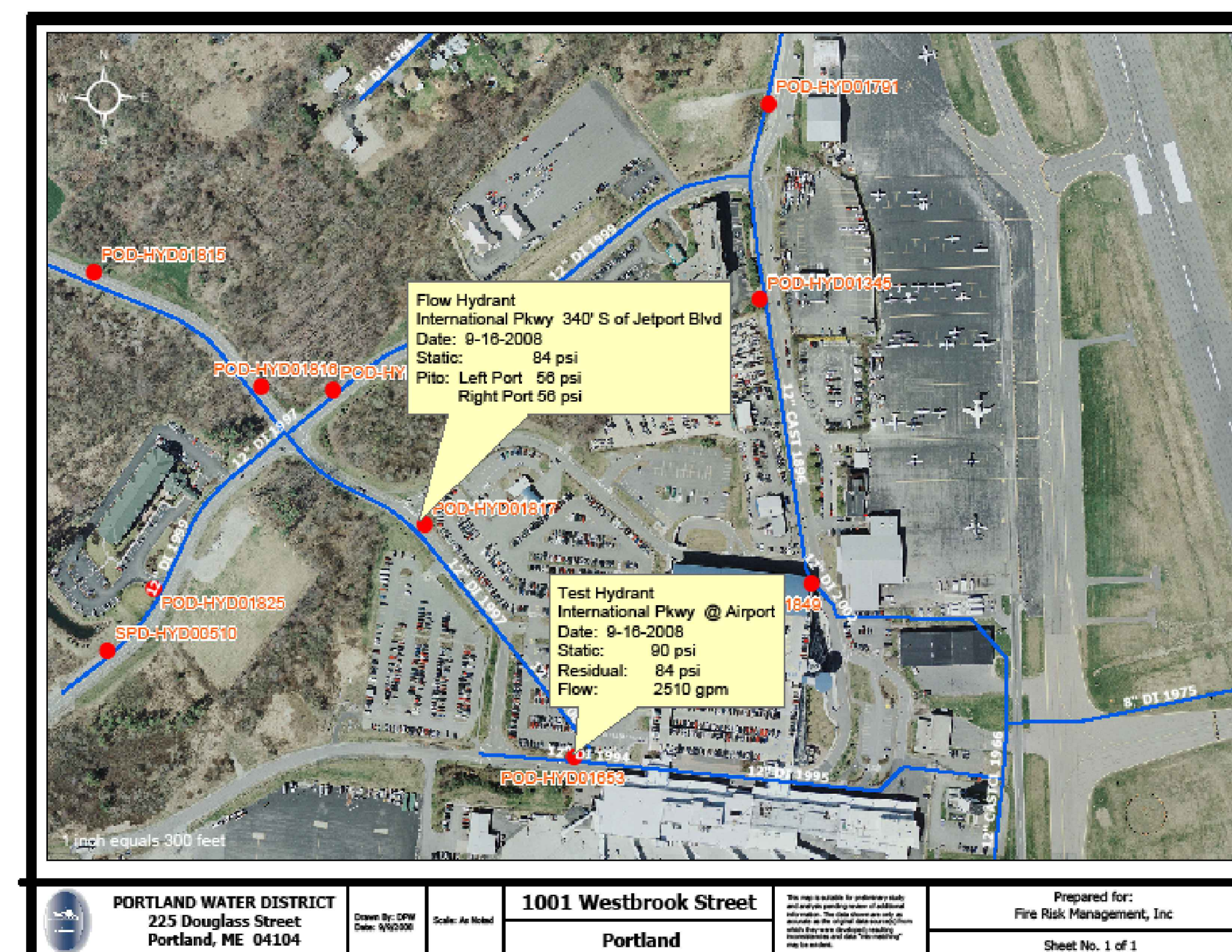
NEW TERMINAL EXPANSION WILL BE PROVIDED WITH AN AUTOMATIC SPRINKLER SYSTEM THROUGHOUT THE BUILDING. A STANDPIPE SYSTEM WILL ALSO BE INSTALLED AS PART OF THE CONSTRUCTION. THE EXISTING TERMINAL WILL BE PROVIDED WITH NEW SPRINKLERS ADJACENT TO THE EQUIVALENT FIRE WALL THAT SEPARATES THE NEW TERMINAL EXPANSION. AS PART OF ADD. ALTERNATE NO. 3, SPRINKLER PROTECTION WILL BE EXTENDED TO ALL NON-SPRINKLERED AREAS WITHIN THE EXISTING BUILDING AS DETAILED IN THE DRAWINGS.

**HYDRAULIC CALCULATIONS
REMOTE AREA # 1**

NFPA HAZARD	ORDINARY HAZARD GROUP 1
SYSTEM TYPE	WET PIPE
WATER SUPPLY	MUNICIPAL WATER SUPPLY
@ EXIST. HYDRANTS	- STATIC 90 PSIG
	- RESIDUAL 84 PSIG
	- FLOWING 2510 GPM
FIRE PUMP	NOT REQUIRED
CALCULATED DENSITY	0.15 GPM/FT ²
REMOTE AREA SIZE	>1500 FT ²
COVERAGE PER SPRINKLER	MAX. 16' X 16' PER MANF. LISTING
SYSTEM DEMAND:	
@ CITY WATER CONNECT.	495.53 GPM @ 79.03 PSIG
HOSE DEMAND	500 GPM
TOTAL DEMAND:	
@ CITY WATER CONNECT.	995.53 GPM @ 79.03 PSIG
SAFETY MARGIN:	10.05 PSIG

**HYDRAULIC CALCULATIONS
REMOTE AREA # 2**

NFPA HAZARD	ORDINARY HAZARD GROUP 2
SYSTEM TYPE	WET PIPE
WATER SUPPLY	MUNICIPAL WATER SUPPLY
@ EXIST. HYDRANTS	- STATIC 90 PSIG
	- RESIDUAL 84 PSIG
	- FLOWING 2510 GPM
FIRE PUMP	NOT REQUIRED
CALCULATED DENSITY	0.20 GPM/FT ²
REMOTE AREA SIZE	>1500 FT ²
COVERAGE PER SPRINKLER	MAX. 120 FT ²
SYSTEM DEMAND:	
@ CITY WATER CONNECT.	462.03 GPM @ 77.93 PSIG
HOSE DEMAND	500 GPM
TOTAL DEMAND:	
@ CITY WATER CONNECT.	962.03 GPM @ 77.93 PSIG
SAFETY MARGIN:	11.06 PSIG



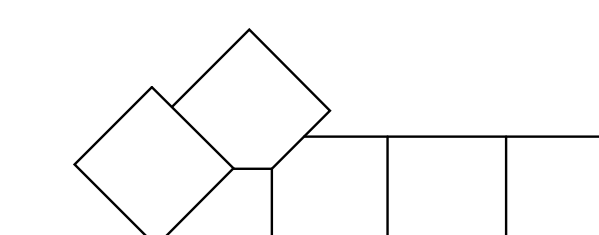
EXISTING FIRE PROTECTION WATER SUPPLY INFORMATION
SCALE: AS NOTED

SHEET NOTES

GENERAL NOTES

- A SEE DWG FP00.01 FOR LEGEND, SCHEDULE & GENERAL NOTES.

KEY PLAN



**Portland International
Jetport**
1001 Westbrook Street
Portland, Maine 04102

Gensler
2020 K Street, NW
Suite 200
Washington, DC 20006
Telephone 202.721.5200
Facsimile 202.872.8587

oest ASSOCIATES, INC.
340 Gorton Road, South Portland, ME 04106
P: (207) 761-1777 F: (207) 774-1344 www.oest.com
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1 First Street
South Portland, ME 04106
P: (207) 442-7200
www.fire-risk.com

Issue	Date & Issue Description	By	Check
01	09/22/08	SKD	WMC
02	12/03/08	SKD	WMC
03	01/23/09	MHY	JLD
04	10/26/09	JLD	SKD

Seal/Signature

Project Name
PJM Terminal Expansion

Project Number
08.0395.000
CAD File Name
FP00.01.dwg
Description
FIRE PROTECTION LEGEND, SCHEDULES & GENERAL NOTES

Scale
AS NOTED

FP00.01

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