

PoDI / NHS

FHWA PROJECT OF DIVISION INTEREST (PoDI)? NO YES

NATIONAL HIGHWAY SYSTEM? NO YES

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

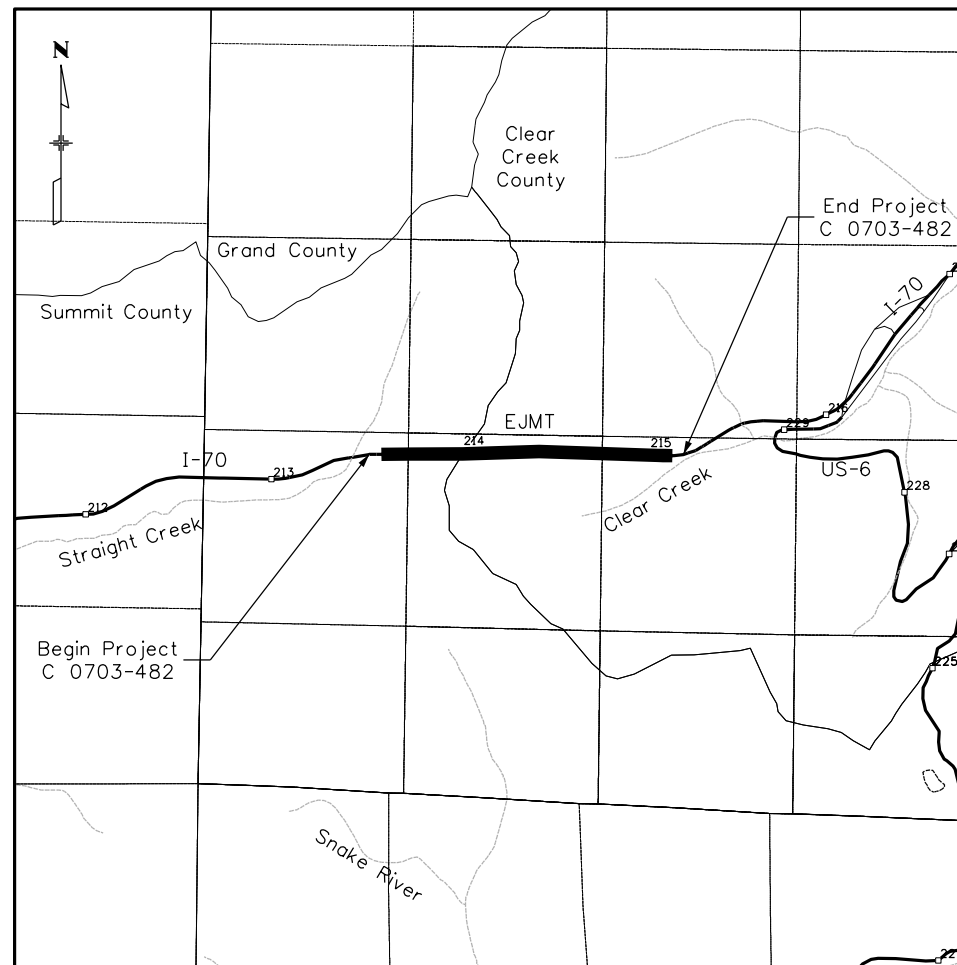
Related Projects:
P. E. UNDER PROJECT:
Project Number: **C 0703-482**
Project Code: **24210**

R.O.W. Projects:
R.O.W. Project Description

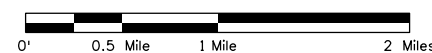
HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED FEDERAL AID PROJECT NO. C 0703-482 EISENHOWER/JOHNSON MEMORIAL TUNNELS DRAINAGE, PLUMBING, HEAT TRACE CLEAR CREEK COUNTY AND SUMMIT COUNTY CONSTRUCTION PROJECT CODE NO. 24210

TABULATION OF LENGTH & DESIGN DATA		
LOCATION	FEET	
	ROADWAY	MAJOR STR.
BEGIN PROJECT C 0703-482 APPROX. MP 213.5 ON I-70	0	
STRUCTURE F-13-X JOHNSON TUNNEL STRUCTURE F-13-Y EISENHOWER TUNNEL		8,959
END PROJECT C 0703-482 APPROX. MP 215.4 ON I-70	0	
TOTAL	0	8,959
SUMMARY OF PROJECT LENGTH		
	FEET	MILES
ROADWAY (NET LENGTH)	0	0
MAJOR STRUCTURE	8,959	1.70
PROJECT GROSS LENGTH	8,959	1.70

SHEET NO.	INDEX OF SHEETS
1	TITLE SHEET
2	TUNNEL SECTIONS
3	TYPICAL STANDPIPE AND WALL PANEL LAYOUT
4	ROADWAY LEVEL PLAN - WEST
5	LOWER LEVEL PLAN - EAST
6	POTABLE WATER PROCESS FLOW DIAGRAM
7-9	HEAT TRACE POWER PLAN
10-14	ELECTRICAL POWER PLAN
15	ELECTRICAL EQUIPMENT LOCATION



PROJECT LOCATION MAP



FINAL RFP
DECEMBER 16, 2021

CART7363 11:22:22 AM pw:\SUS036343.wsatkins.com:ATKNAC001\Documents\Roads and Bridges\Projects\24210 - EJM DPHT\Design\Drawings\Sheet_LFiles\24210DES_TitleSht.dgn

Print Date: 12/16/2021
File Name: 24210DES_TitleSht.dgn
Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information: XXX
ATKINS 7604 Technology Way, Suite 400
Denver, CO 80237
Phone: (303) 221-7275
Fax: (303) 221-7276

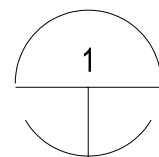
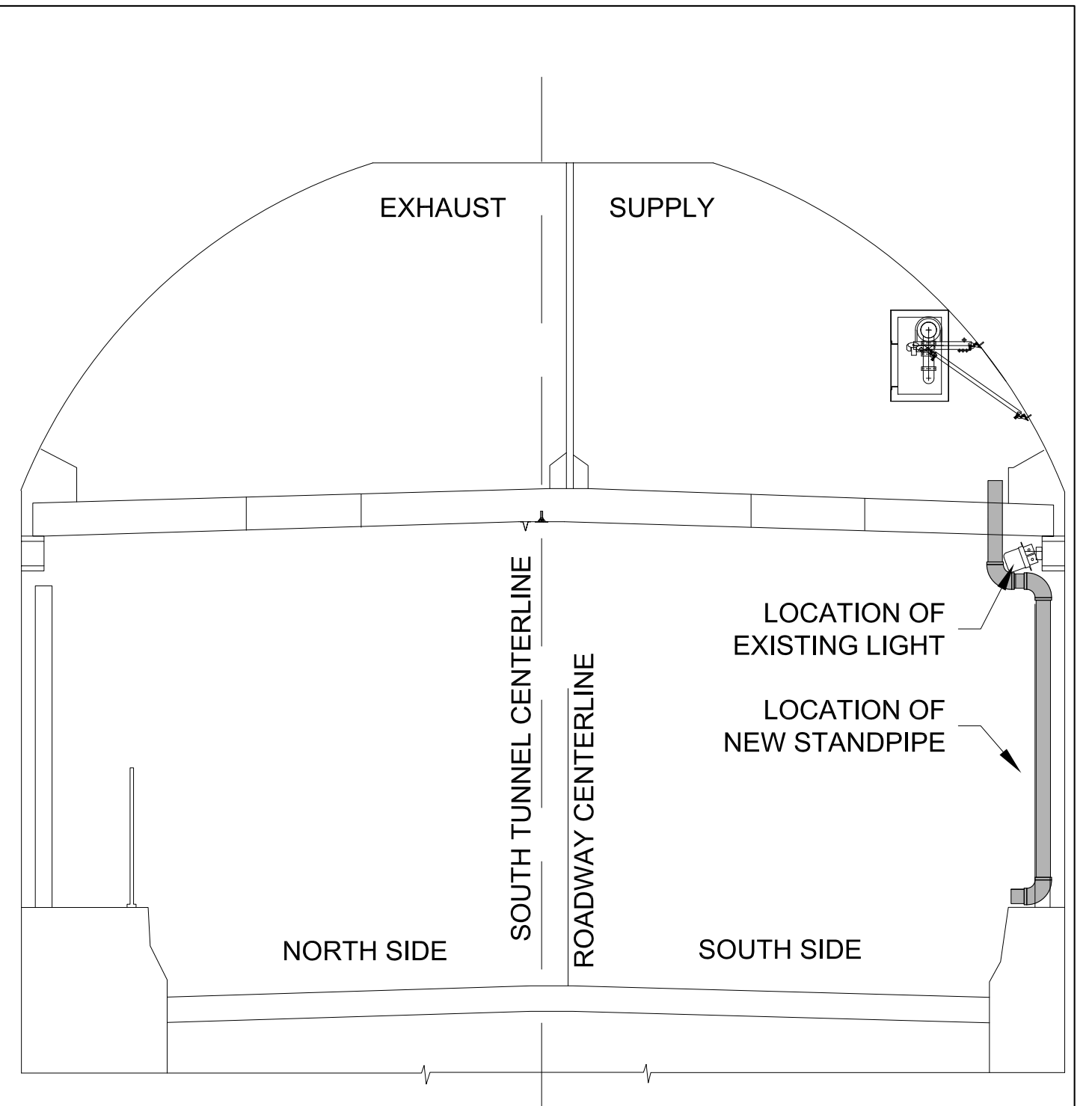
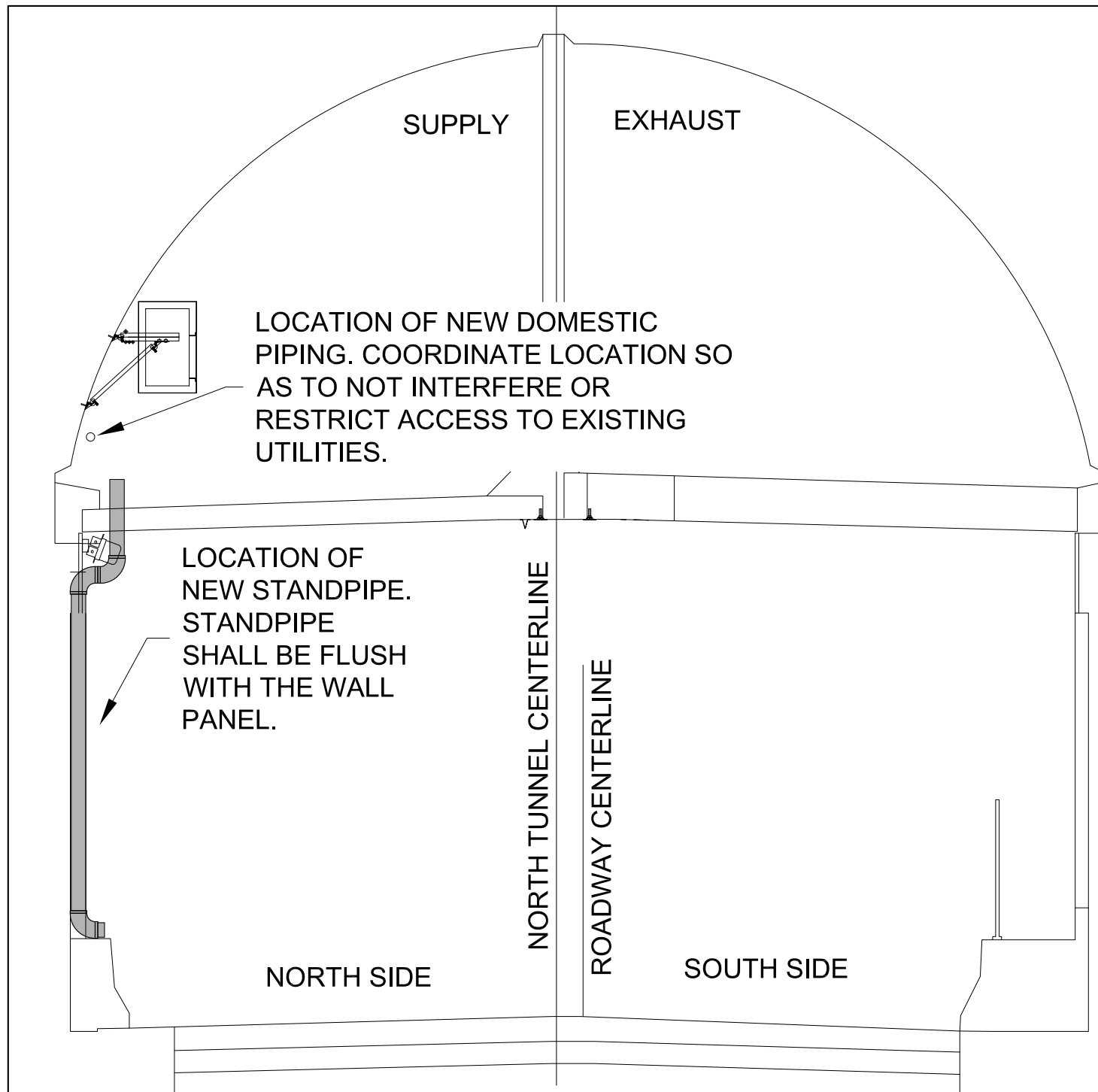
Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
 2829 W. Howard Pl.
Denver, CO 80204
Phone: 303-512-4272
FAX: 303-757-9886
Region 1 XXX

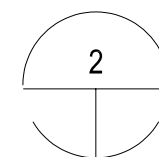
Preliminary
No Revisions:
Revised:
Void:

Contract Information
Contractor:
Resident Engineer:
Project Engineer:
PROJECT STARTED: / / ACCEPTED: / /
Comments:

Project No./Code
C 0703-482
24210
Sheet Number 01



1 NORTH TUNNEL SECTION - SCHEMATIC
SCALE:NTS



2 SOUTH TUNNEL SECTION - SCHEMATIC
SCALE:NTS

\$PLOT_INFO\$

Print Date: \$DATE\$
File Name: \$FILES\$
Horiz. Scale: Vert. Scale: As Noted
Unit Information

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

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 Denver, CO 80204
 Phone: 303-512-4272
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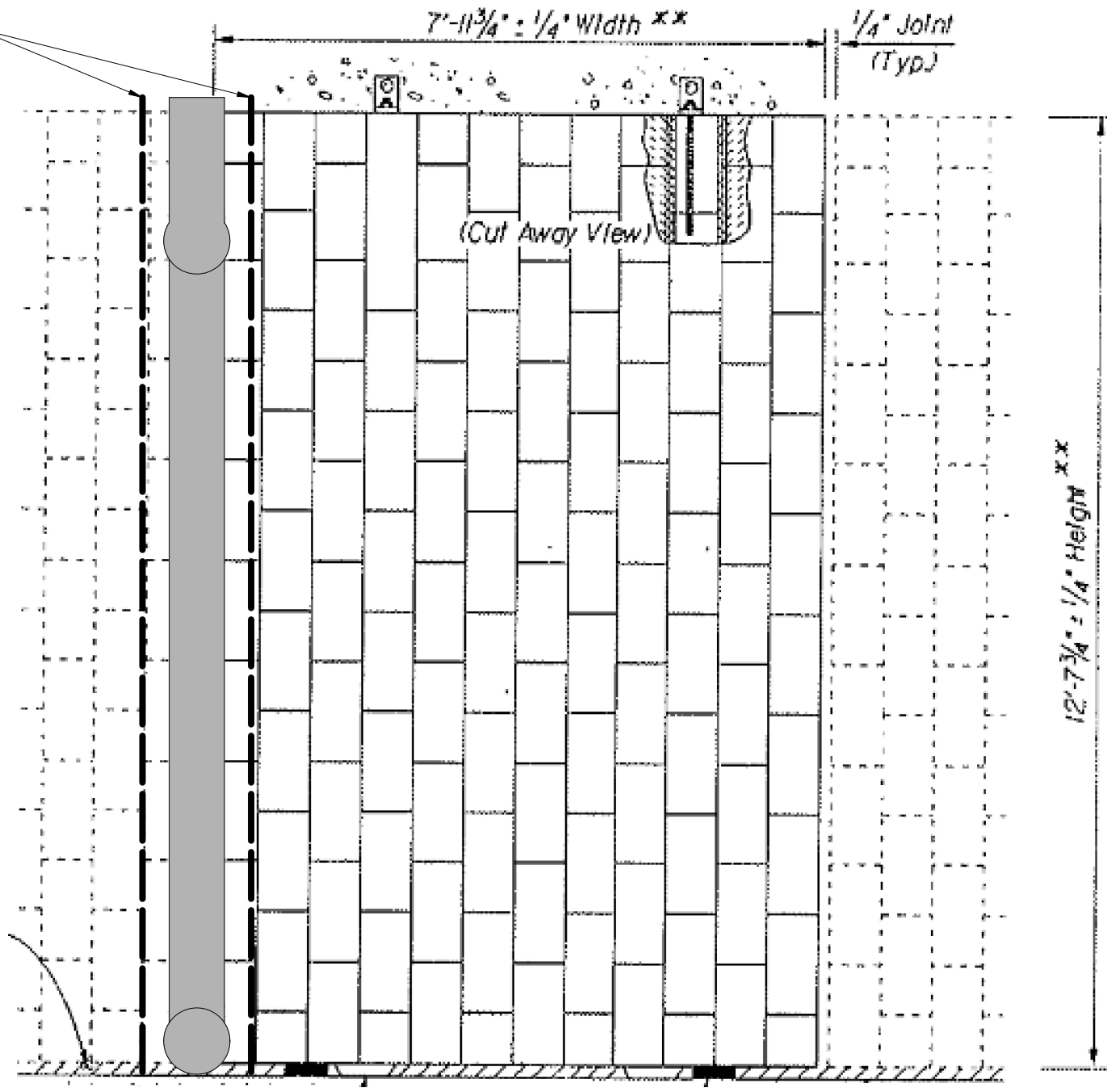
EJMT DPHT TUNNEL SECTION VIEWS SCHEMATIC EQUIPMENT LOCATION	
Designer:	Structure Numbers
Detailer:	
Sheet Subset:	Subset Sheets:

Project No./Code
C 0703-482
24210
Sheet Number 02

GENERAL NOTES

1. LOCATE STANDPIPE AT WALL PANEL JOINT ONLY. STANDPIPE SHALL NOT BE LOCATED IN THE CENTER OF THE PANEL. CUT PANEL AS REQUIRED TO ALLOW PENETRATIONS OR RECESSING OF THE PIPE IF IT CAN NOT BE FULLY CONCEALED BEHIND THE PANEL. FRONT OF PIPE SHALL BE FLUSH WITH THE WALL PANEL.
2. SAW CUT PANEL TO PROVIDE CLEARANCE FOR THE PIPE.

APPROXIMATE WIDTH OF SAW CUT



TYPICAL WALL PANEL

\$PLOT_INFO\$

Print Date: \$DATE\$	
File Name: \$FILES\$	
Horiz. Scale: _____	Vert. Scale: As Noted
Unit Information	

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

2829 W. Howard Pl.
Denver, CO 80204
Phone: 303-512-4272
FAX: 303-757-9886

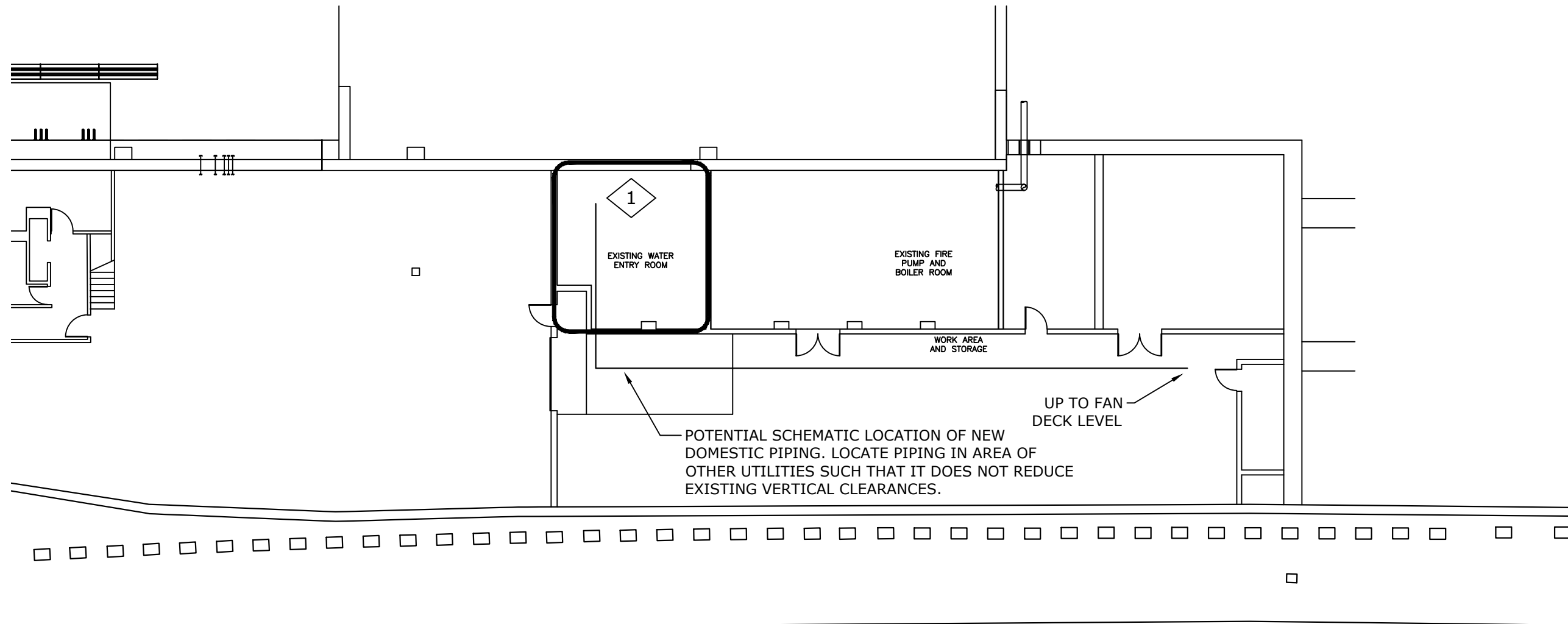
Region 1

XXX

Preliminary
No Revisions: _____
Revised: _____
Void: _____

EJMT DPHT TUNNEL SECTION VIEWS SCHEMATIC EQUIPMENT LOCATION	
Designer:	Structure Numbers
Detailer:	Subset Sheets:
Sheet Subset:	

Project No./Code	C 0703-482
	24210
Sheet Number	03



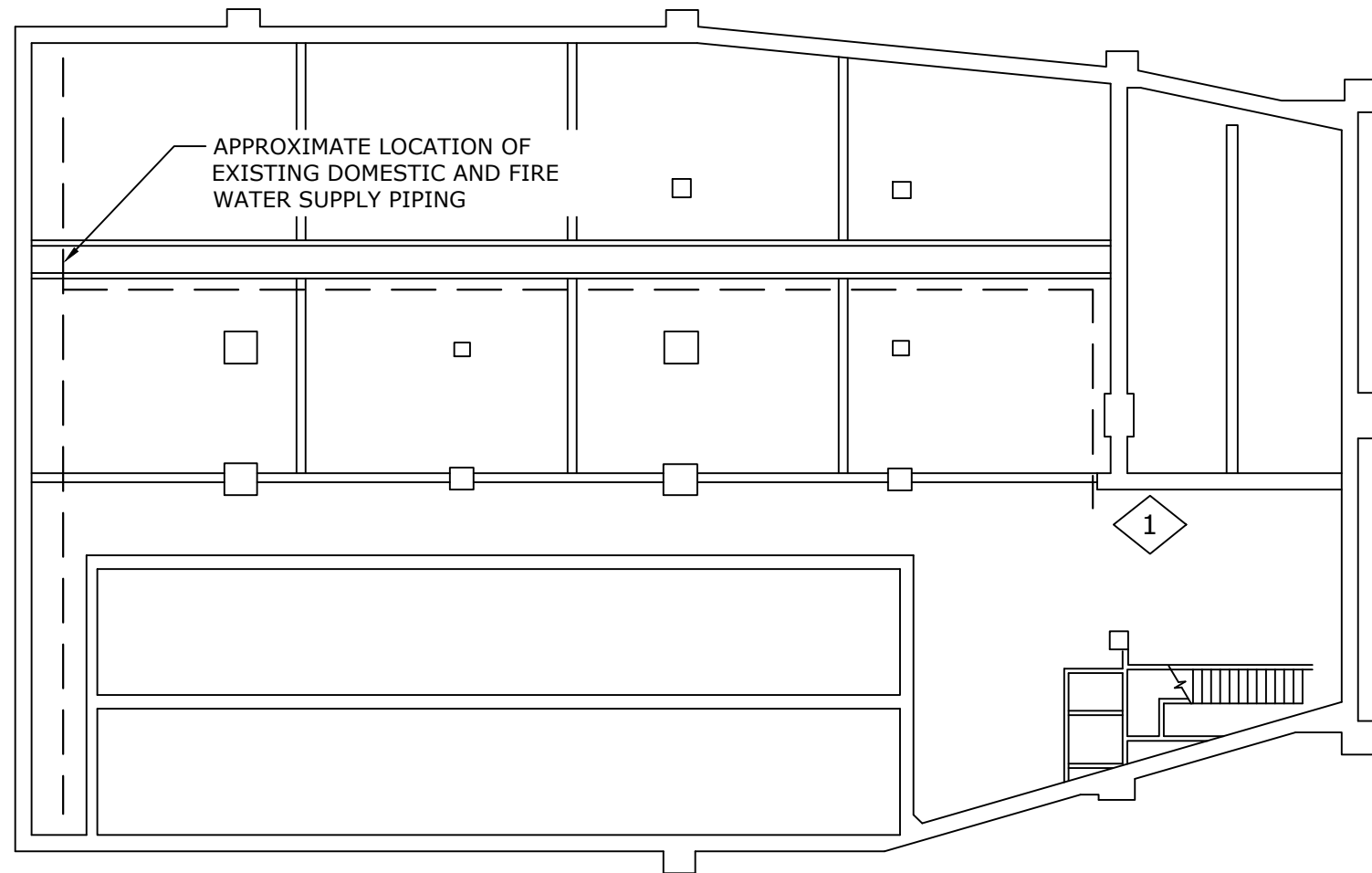
GENERAL NOTES:

- DRAWING SHOWS POTENTIAL LOCATION AND ARRANGEMENT OF THE NEW DOMESTIC PIPING FROM THE NEW WATER TREATMENT EQUIPMENT. CONTRACTOR TO DETERMINE FINAL ARRANGEMENT OF ALL PIPING AND EQUIPMENT. NEW DOMESTIC WATER PIPING TO BE ROUTED TO FAN DECK LEVEL AND INTO NORTH SUPPLY PLENUM.

KEY NOTES:

- LOCATION OF EXISTING DOMESTIC WATER ENTRY AND WATER TREATMENT SYSTEM. COORDINATE CONNECTION OF NEW DOMESTIC PIPING TO NEW WATER TREATMENT SYSTEM. EXISTING DOMESTIC WATER SUPPLY TO BE DISCONNECTED AND PROVIDED WITH A VALVE AND CAP WHERE IT IS DISCONNECTED FROM EXISTING SYSTEM.

Print Date: \$DATE\$ File Name: \$FILES\$ Horiz. Scale: Vert. Scale: As Noted Unit Information	Sheet Revisions			Colorado Department of Transportation  2829 W. Howard Pl. Denver, CO 80204 Phone: 303-512-4272 FAX: 303-757-9886 Region 1 XXX	Preliminary		EJMT DPHT ROADWAY LEVEL-WEST WATER TREATMENT ROOM LOCATION		Project No./Code
	Date:	Comments	Init.		No Revisions: _____	Designer:	Structure Numbers	24210	
	_____	_____	_____		Revised: _____	Detailer:	_____	_____	
	_____	_____	_____		Void: _____	Sheet Subset:	Subset Sheets:	Sheet Number 04	



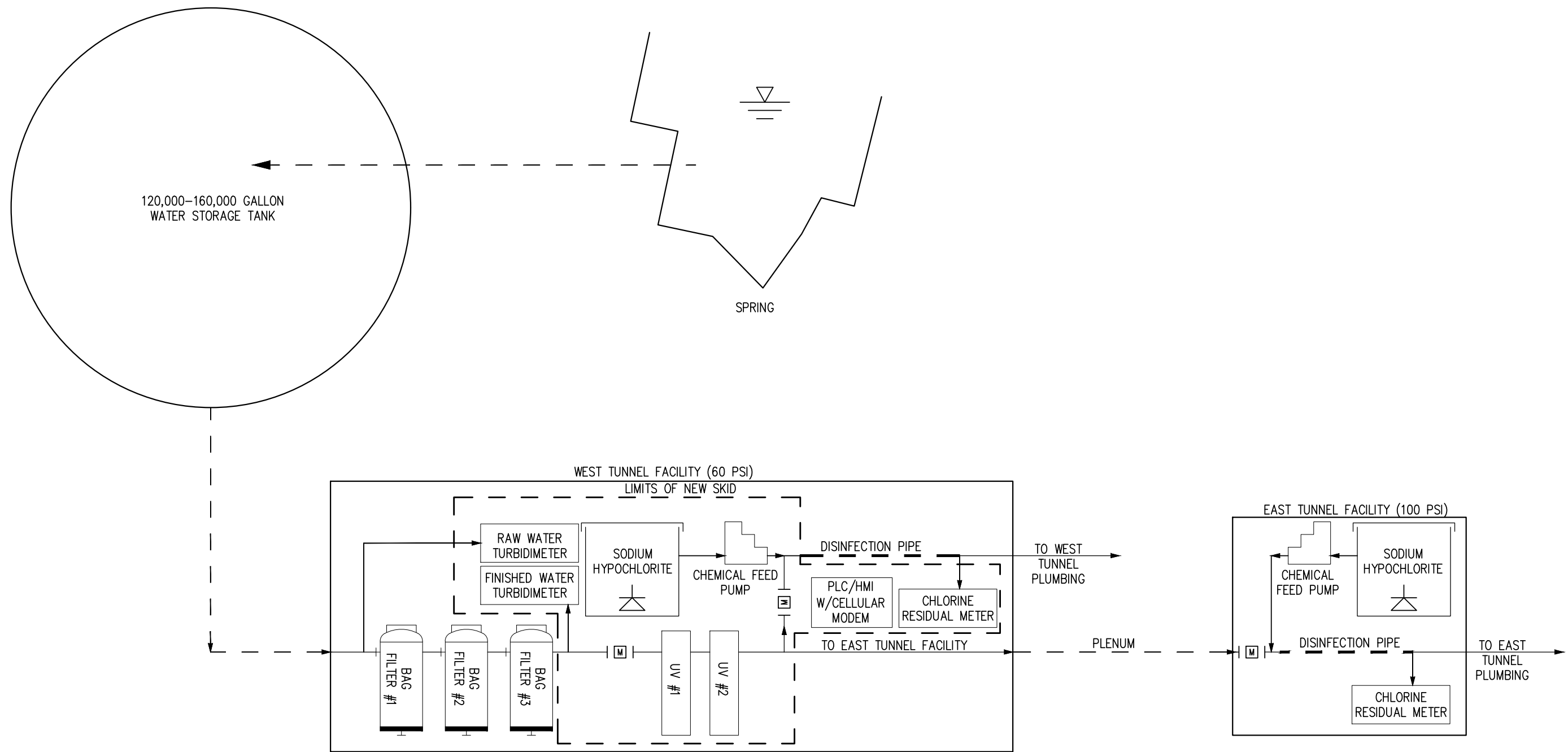
GENERAL NOTES:

1. DRAWING SHOWS GENERAL LOCATION AND ARRANGEMENT OF THE DOMESTIC PIPING TO THE NEW WATER TREATMENT EQUIPMENT. CONTRACTOR TO DETERMINE FINAL ARRANGEMENT OF ALL PIPING AND EQUIPMENT.

KEY NOTES:

1. LOCATION OF EXISTING DOMESTIC WATER ENTRY AND WATER TREATMENT SYSTEM. CONNECT NEW DOMESTIC PIPING TO NEW WATER TREATMENT EQUIPMENT. PIPING TO BE ROUTED FROM NORTH PLENUM FAN DECK LEVEL TO WATER TREATMENT ROOM. EXISTING DOMESTIC AND FIRE WATER SUPPLY TO BE DISCONNECTED AND PROVIDED WITH A VALVE AND CAP WHERE IT IS DISCONNECTED FROM EXISTING SYSTEM.

Print Date: \$DATE\$ File Name: \$FILES\$ Horiz. Scale: Vert. Scale: As Noted Unit Information	Sheet Revisions			Colorado Department of Transportation  2829 W. Howard Pl. Denver, CO 80204 Phone: 303-512-4272 FAX: 303-757-9886 Region 1 XXX	Preliminary		EJMT DPHT LOWER LEVEL-EAST WATER TREATMENT ROOM LOCATION		Project No./Code	
	Date:	Comments	Init.		No Revisions: _____	Designer:	Structure Numbers	C 0703-482		
	_____	_____	_____		Revised: _____	Detailer:	_____	24210		
	_____	_____	_____		Void: _____	Sheet Subset:	Subset Sheets:	Sheet Number 05		



Print Date: 12/6/21
 File Name: WATER SYSTEM PFD.DWG
 Horiz. Scale: NOT TO SCALE Vert. Scale: As Noted
 Unit Information: INCHES

Sheet Revisions		
Date:	Comments	Init.

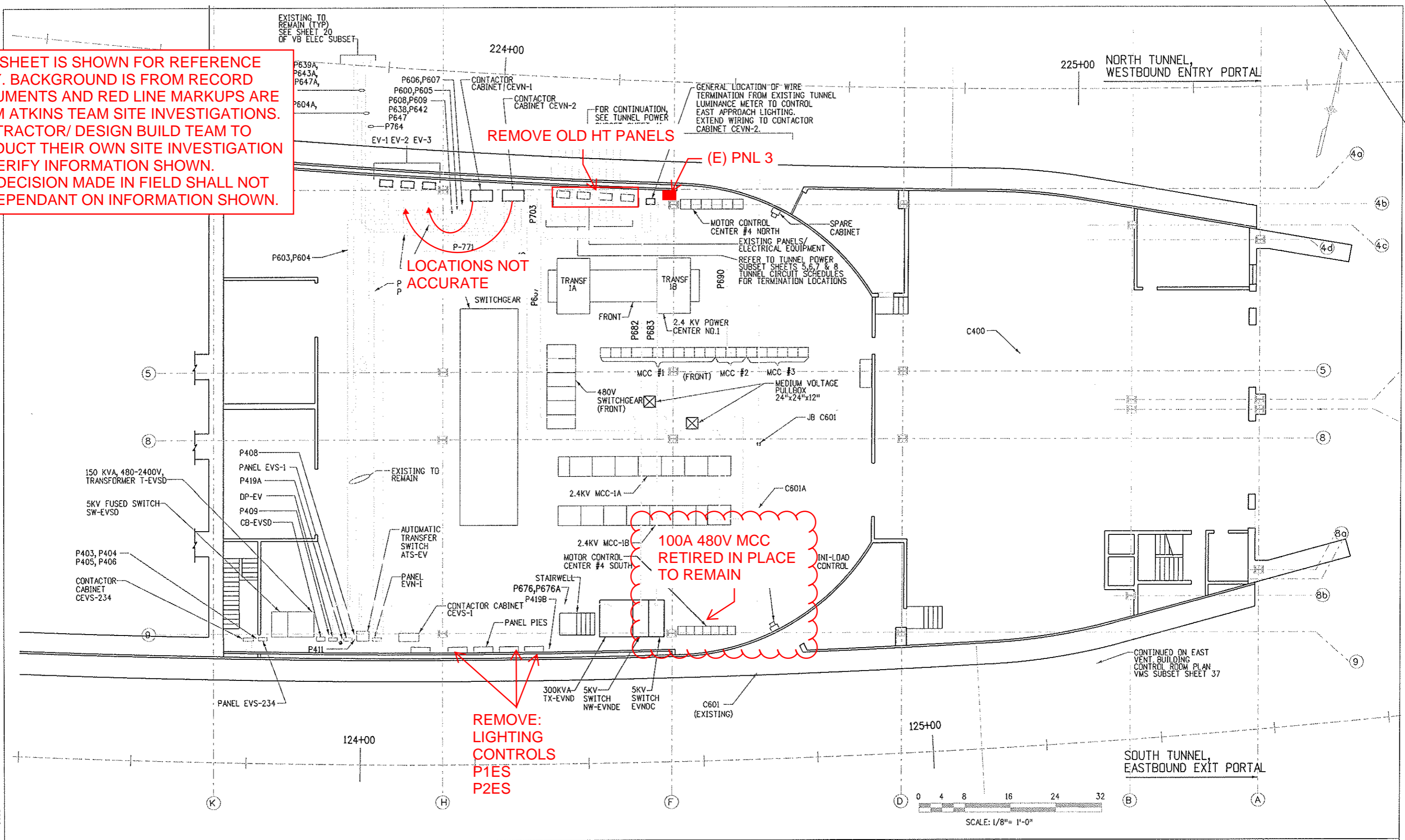
Colorado Department of Transportation
 Region 1
 2829 W. Howard Pl.
 Denver, CO 80204
 Phone: 303-512-4272
 FAX: 303-757-9886
 XXX

Preliminary
 No Revisions:
 Revised:
 Void:

EJMT DPHT
 POTABLE WATER SYSTEM
 PROCESS FLOW DIAGRAM
 Designer: AS
 Detailer: MG
 Sheet Subset:
 Structure Numbers
 Subset Sheets: 1 of 1

Project No./Code
 C 0703-482
 24210
 Sheet Number 06

THIS SHEET IS SHOWN FOR REFERENCE ONLY. BACKGROUND IS FROM RECORD DOCUMENTS AND RED LINE MARKUPS ARE FROM ATKINS TEAM SITE INVESTIGATIONS. CONTRACTOR/ DESIGN BUILD TEAM TO CONDUCT THEIR OWN SITE INVESTIGATION TO VERIFY INFORMATION SHOWN. ANY DECISION MADE IN FIELD SHALL NOT BE DEPENDANT ON INFORMATION SHOWN.



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 Plot File Name: \$PLTFILE\$
 Date of Plot: \$\$\$DATE\$\$\$

Computer File Information	
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Last Modification Date:	03/16/07 Initials: DJB
Full Path:	14102\800Deliv\AsBuil\
Drawing File Name:	epp121en
Acad Ver.	R14 Scale: 1/8"=1'-0" Units: ENGLISH

Sheet Revisions	
07/03/07	ASBUILT DJB

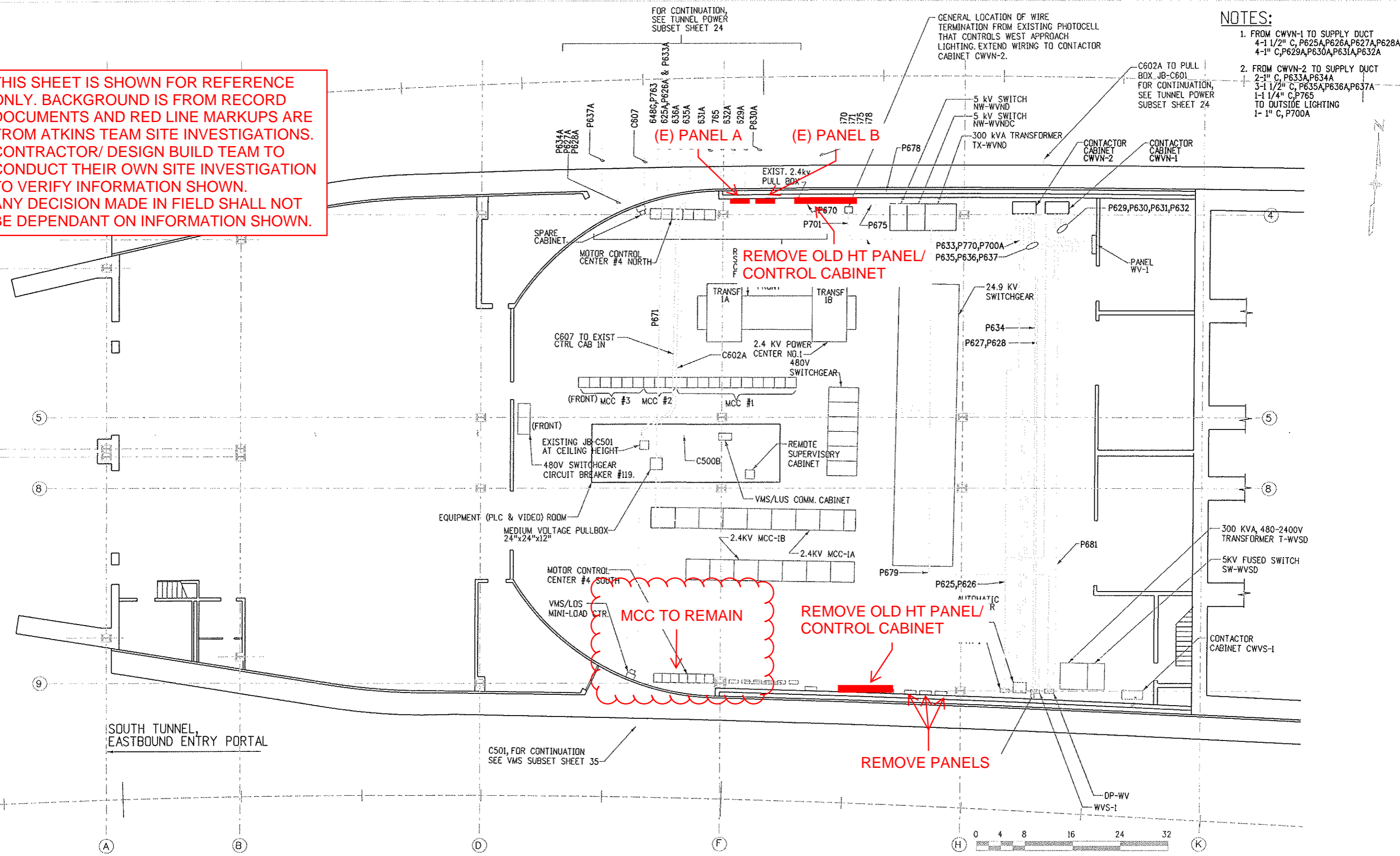
Colorado Department of Transportation
 As Constructed
 No Revisions:
 Revised:
 Void:

Region 1 Mountain Residency I.N.Z.

P.O. BOX 399
 DUMONT, CO. 80436
 Phone: 303-512-5750 FAX: 303-512-5775

EAST VENT BUILDING ELECTRICAL POWER PLAN		Project No./Code
Designer: E.A. GAYAMAT	Structure Numbers	IM 0703-269
Detailer: R. MILLER	Sheet Subset: VB ELEC	13166
Subset Sheets: 4 of 20	Sheet Number	115

THIS SHEET IS SHOWN FOR REFERENCE ONLY. BACKGROUND IS FROM RECORD DOCUMENTS AND RED LINE MARKUPS ARE FROM ATKINS TEAM SITE INVESTIGATIONS. CONTRACTOR/ DESIGN BUILD TEAM TO CONDUCT THEIR OWN SITE INVESTIGATION TO VERIFY INFORMATION SHOWN. ANY DECISION MADE IN FIELD SHALL NOT BE DEPENDANT ON INFORMATION SHOWN.



- NOTES:**
- FROM CWVN-1 TO SUPPLY DUCT
4-1 1/2" C, P625A,P626A,P627A,P628A
4-1" C,P629A,P630A,P631A,P632A
 - FROM CWVN-2 TO SUPPLY DUCT
2-1" C, P633A,P634A
3-1 1/2" C, P635A,P636A,P637A
1-1 1/4" C,P765
TO OUTSIDE LIGHTING
1- 1" C, P700A

Design File Name: DGN\$SPEC*
Plot File Name: \$PLOTFILE*
Date of Plot: \$\$\$DATE\$\$\$\$

Computer File Information	
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Last Modification Date:	05/21/07 Initials: DJB
Full Path:	014102\800Deliv\AsBuilt\
Drawing File Name:	eppl20wn
Acad Ver.	R14 Scale: 1/8" = 1'-0" Units: ENGLISH

Sheet Revisions	
07/03/07	ASBUILT DJB

Colorado Department of Transportation

P.O. BOX 399
DUMONT, CO. 80436
Phone: 303-512-5750 FAX: 303-512-5775

Region 1 Mountain Residency I.N.Z.

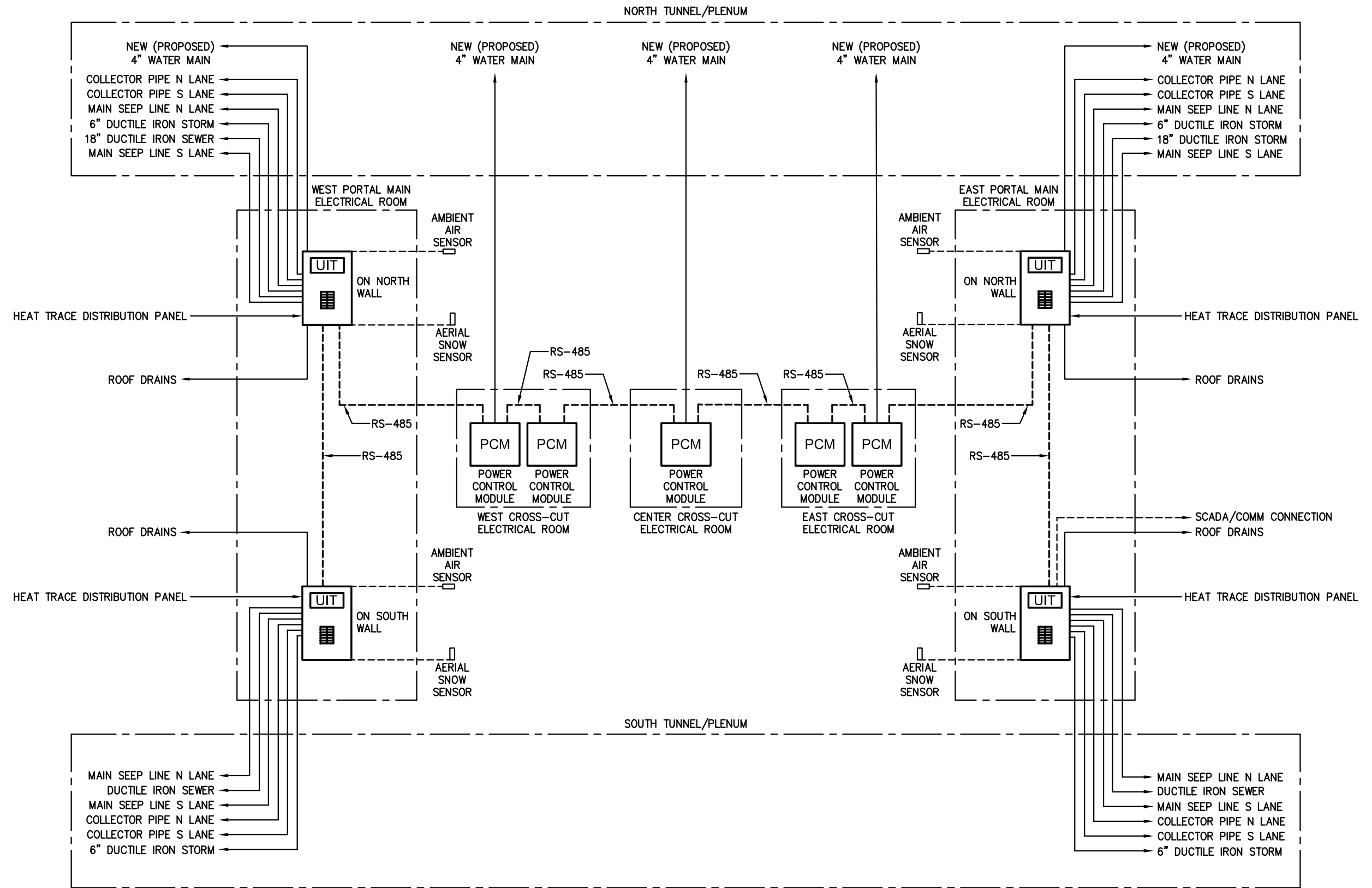
As Constructed
No Revisions:
Revised:
Void:

**WEST VENT BUILDING
ELECTRICAL POWER PLAN**

Designer: E.A. GAYAMAT
Detailer: R. MILLER
Sheet Subset: VB ELEC

Structure Numbers
Subset Sheets: 6 OF 20

Project No./Code	
IM 0703-269	13166
Sheet Number	117

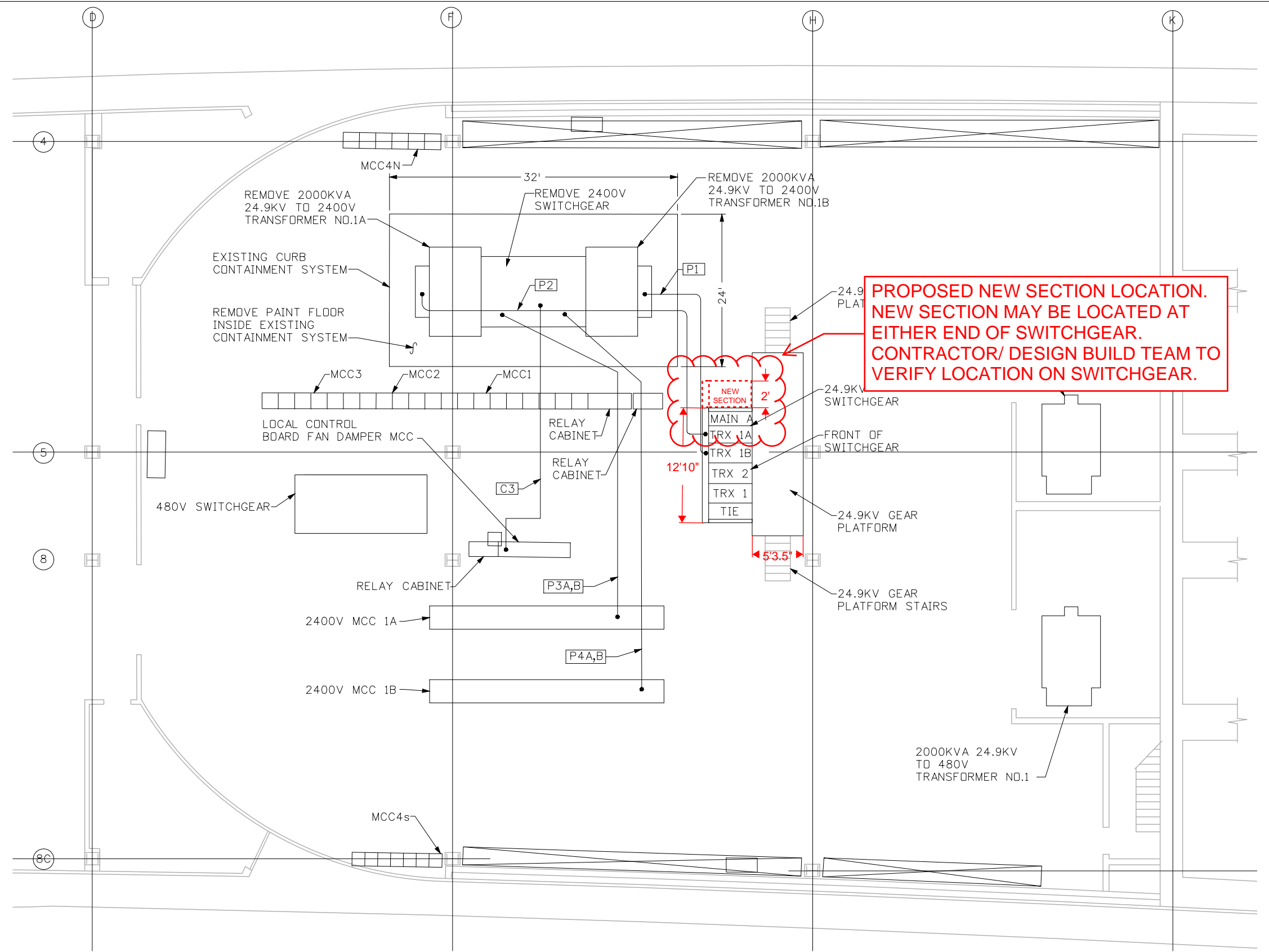


PK Electrical, Inc.
Engineering · Design · Consulting
 681 Sierra Rose Dr., Ste. B | Reno, Nevada 89511 | 775.826.9010
 5105 DTC Parkway, Ste. 420 | Greenwood Village, CO 80111 | 720.481.3290
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DRAWN:	PKE
CHECKED:	LS
DATE:	10/13/2021
JOB NUMBER:	21047
PROJECT MGR:	AW

EISENHOWER/JOHNSON MEMORIAL TUNNEL PROPOSED HEAT-TRACE BLOCK DIAGRAM

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PROPOSED NEW SECTION LOCATION. NEW SECTION MAY BE LOCATED AT EITHER END OF SWITCHGEAR. CONTRACTOR/ DESIGN BUILD TEAM TO VERIFY LOCATION ON SWITCHGEAR.

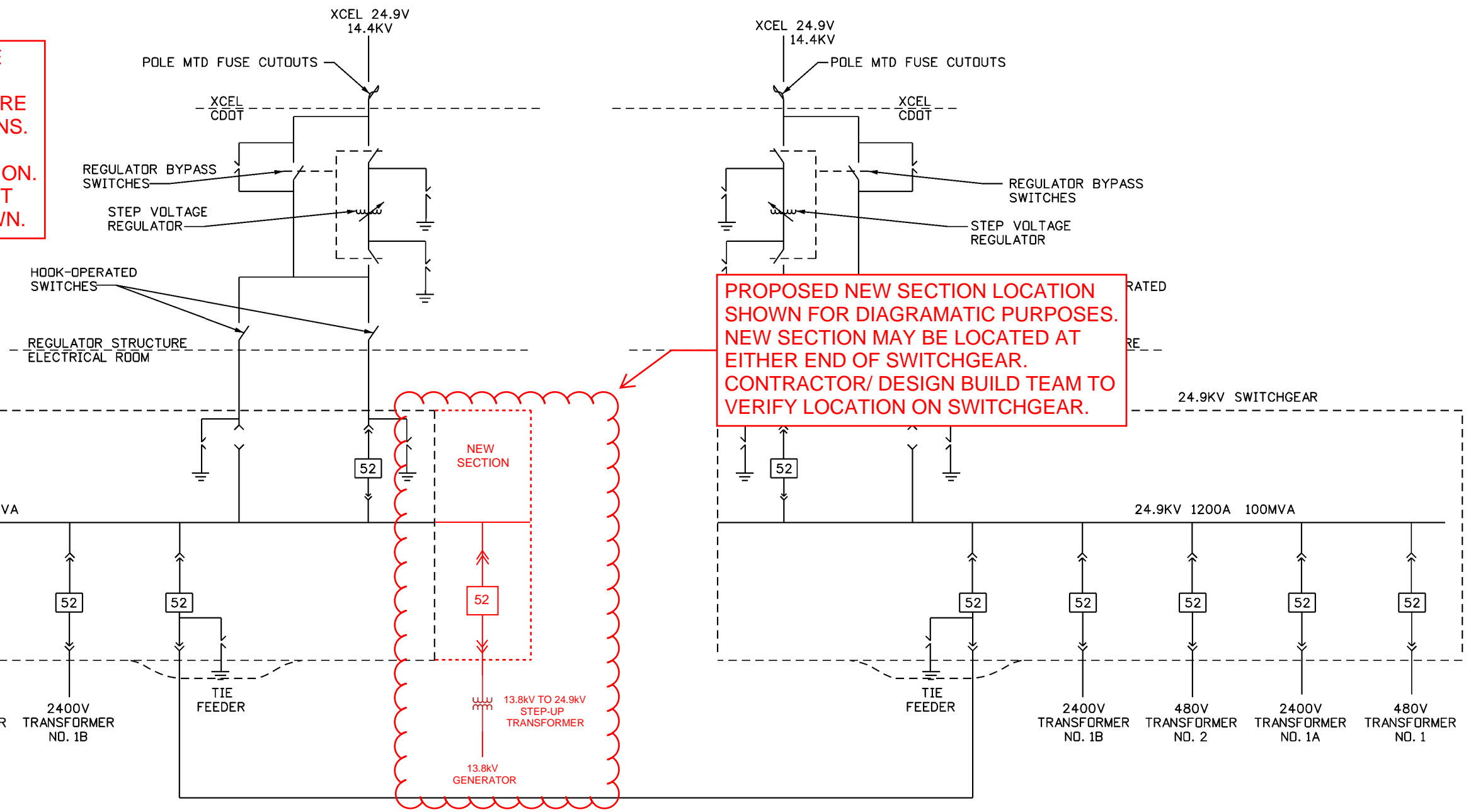
NOTES

1. FLOOR ELEVATION 11,156.50'.
2. CONDUIT NUMBERS ARE KEYED TO SHEET 5, TABULATION OF WIRING. EXISTING WIRING IS THE SAME AS THE NEW WIRING.
3. EXISTING CONTAINMENT SYSTEM DIMENSIONS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY.

Print Date: 6/24/2016		Sheet Revisions		Colorado Department of Transportation		As Constructed		WEST VENTILATION BUILDING ELECTRICAL EQUIPMENT ROOM		Project No./Code		
File Name: 24.9-W_Exist-Elec-Room.dgn		Date:	Comments	Init.	425A Corporate Circle Golden, CO 80401 Phone: 720-497-6959 FAX: 720-497-6951		No Revisions:		PLAN - EXISTING		NHPP 0703-420	
Horiz. Scale: 1:12 Vert. Scale: NA					Region 1 JDS		Revised:		Designer: J. SHELDON		Structure Numbers	
Unit Information Unit Leader Initials							Void:		Detailer: J. GONZALES		20323	
555 17th Street, Suite 500 Denver, CO 80202 Phone: (303) 832-9091 Fax: (303) 728-1936									Sheet Subset:		Subset Sheets: 11 of 26	
											Sheet Number 10	

Heidenreich 2:06:06 PM J:\184045L - EJM 2400V Switchgear\5.0 Project Data\5.1 Electrical\FinalDesign\Plan Sheet files\24.9-W_Exist-Elec-Room.dgn

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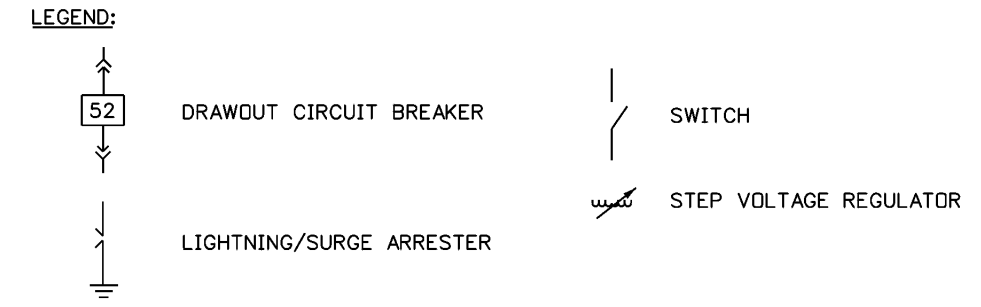


PROPOSED NEW SECTION LOCATION SHOWN FOR DIAGRAMATIC PURPOSES. NEW SECTION MAY BE LOCATED AT EITHER END OF SWITCHGEAR. CONTRACTOR/ DESIGN BUILD TEAM TO VERIFY LOCATION ON SWITCHGEAR.

WEST VENTILATION BUILDING

EAST VENTILATION BUILDING

NEW 24.9KV ONE-LINE DIAGRAM
N.T.S.



Gonzales 9:02:24 AM J:\184026 - CDDT Tunnel NPS 2011\EE\MT_25KV Switchgear - (TDS)\19373\Design\Drawings\Plan Sheet files\24.9-New_One-Line.dgn

Print Date: 8/18/2014	
File Name: 24.9-New_One-Line.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	
PARSONS BRINCKERHOFF 555 17th Street, Suite 500 Denver, CO 80202 Phone: (303) 832-9091 Fax: (303) 728-1936	

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

425A Corporate Circle
Golden, CO 80401
Phone: 720-497-6959 FAX: 720-497-6951

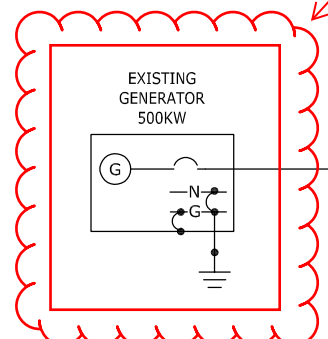
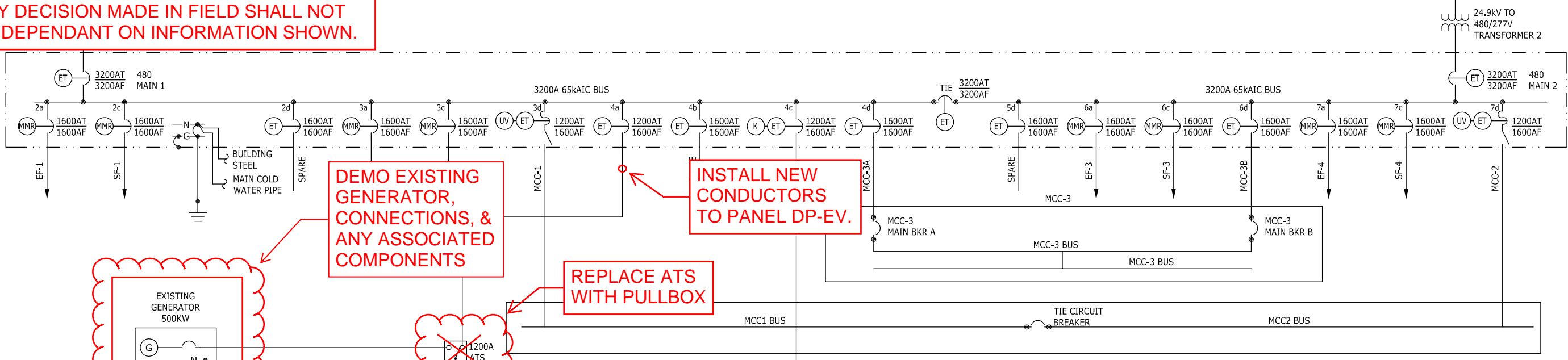
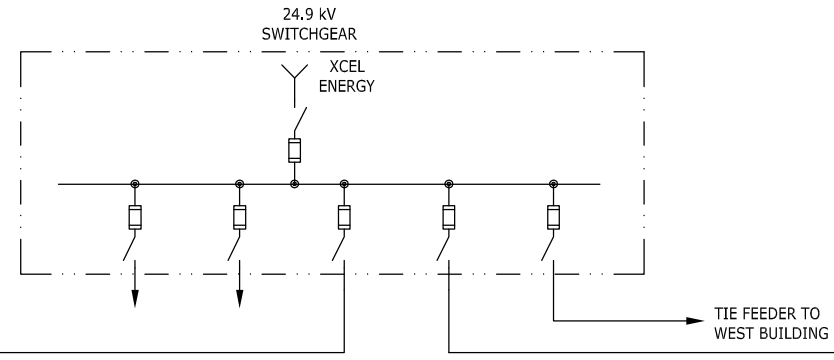
Region 1 JDS

As Constructed
No Revisions:
Revised:
Void:

NEW ONE-LINE DIAGRAM			
Designer:	J. SHELDON	Structure Numbers	
Detailer:	H. PULIDO	Subset Sheets:	2 of 21
Sheet Subset:			

Project No./Code
C 0703-399
19373
Sheet Number 11

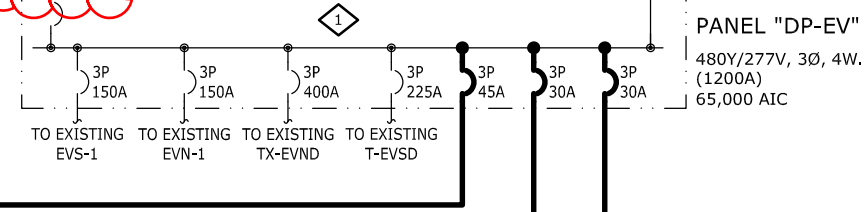
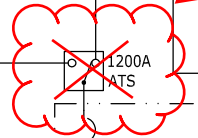
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DEMO EXISTING GENERATOR, CONNECTIONS, & ANY ASSOCIATED COMPONENTS

INSTALL NEW CONDUCTORS TO PANEL DP-EV.

REPLACE ATS WITH PULLBOX

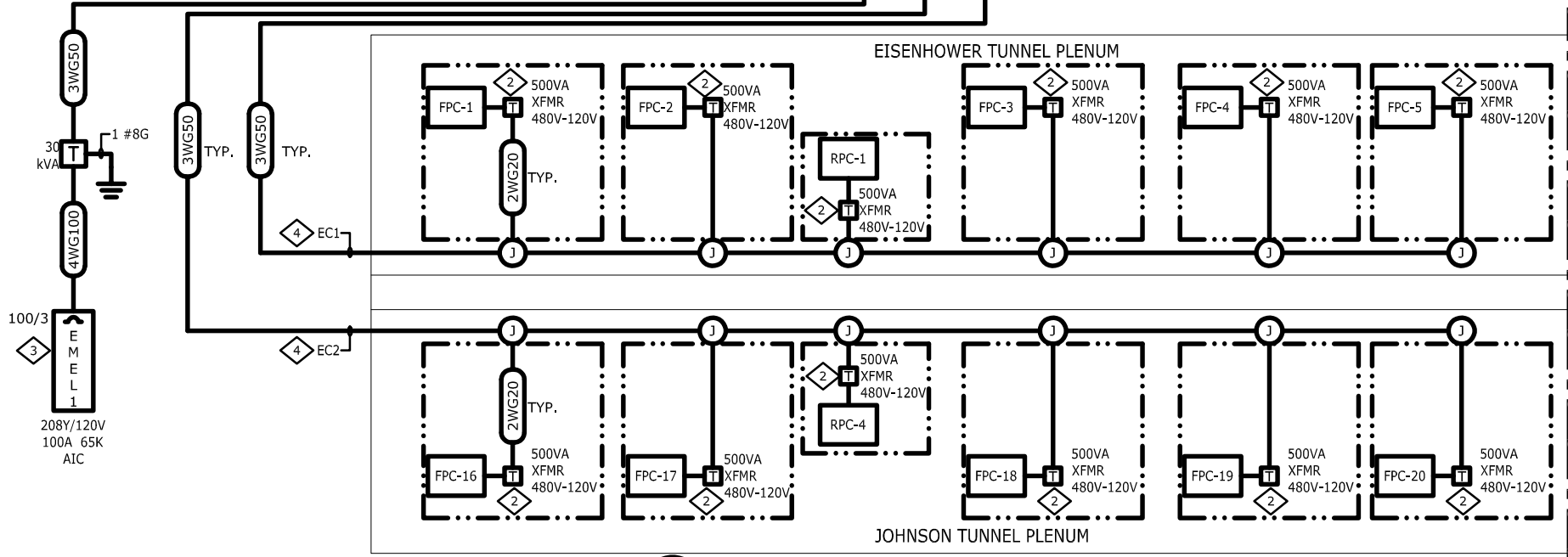


GENERAL NOTES:

1. ELECTRICAL CONTRACTOR RESPONSIBLE FOR DISCONNECTS, CONDUIT, WIRE, AND FINAL CONNECTIONS BETWEEN IDENTIFIED EQUIPMENT INCLUDING (BUT NOT LIMITED TO) FIRE PUMPS, FIRE PUMP CONTROLLER, CIRCULATING PUMPS, AND CONTROL PANELS.
2. REFER TO DRAWING E1.0 FOR FEEDER SCHEDULE.
3. REFER TO DRAWING E1.3 FOR "EMEL1" LOAD INFORMATION.
4. EXISTING 500KW GENERATOR LOAD IS LESS THAN 200KW.

WORK NOTES:

- 1 IN EXISTING 480/277V PANEL "DP-EV" FURNISH AND INSTALL NEW CIRCUIT BREAKERS AS SHOWN TO POWER NEW FIRE ALARM SYSTEM. RE-ARRANGE EXISTING CIRCUIT BREAKERS IN "DP-EV" AS NECESSARY TO ACCOMMODATE SPACE FOR NEW BREAKERS.
- 2 PROVIDE SINGLE PHASE STEP DOWN TRANSFORMER WITH PRIMARY(0.8A) AND SECONDARY(4A) OVER-CURRENT PROTECTION AND DISCONNECTING MEANS. INSTALL TRANSFORMER WITHIN THE FPC/RCP PANEL IN LOCATION SHOWN IN THE SYSTEMS GROUP DRAWINGS. COORDINATE INSTALLATION WITH SYSTEMS GROUP.
- 3 FURNISH, INSTALL AND WIRE NEW TRANSFORMER AND 208/120V PANEL. THIS PANEL WILL POWER THE FIRE ALARM PANELS, FIBER OPTIC LINEAR HEAT DETECTION SYSTEM, SOLENOID VALVES, VIDEO CAMERAS, WORK STATIONS, AND FLAT SCREEN DISPLAYS POWERED FROM THE EAST PORTAL.
- 4 ROUTE POWER FOR TUNNEL FIRE ALARM SYSTEM PANELS WITH CONDUITS SHOWN ON SYSTEMS GROUP DRAWINGS.



1 EAST VENTILATION BLDG 480V SWITCHGEAR ONE-LINE DIAGRAM
SCALE:N.T.S.

XREFS=(x4b) L:\projects\E2.2 EAST ELECTRICAL ONE-LINE DIAGRAM\Drawings\Electrical\E2.2 EAST ELECTRICAL ONE-LINE DIAGRAM.dwg JAN 27, 2015 2:44PM CHENDERSON DIMSCALE=1/16

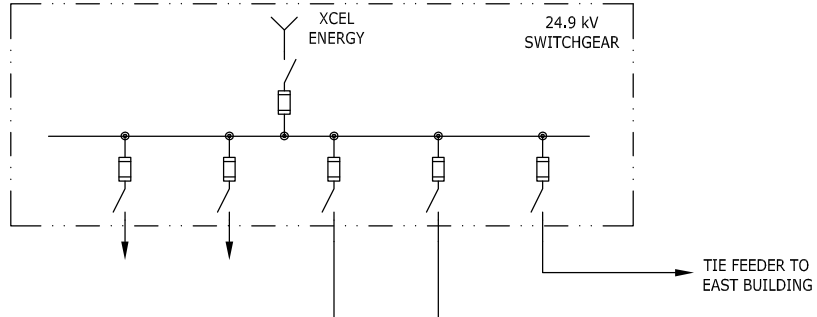
E2.2 EAST ELECTRICAL ONE-LINE DIAGRAM

RECORD DRAWINGS - 2015-11-16

GEP

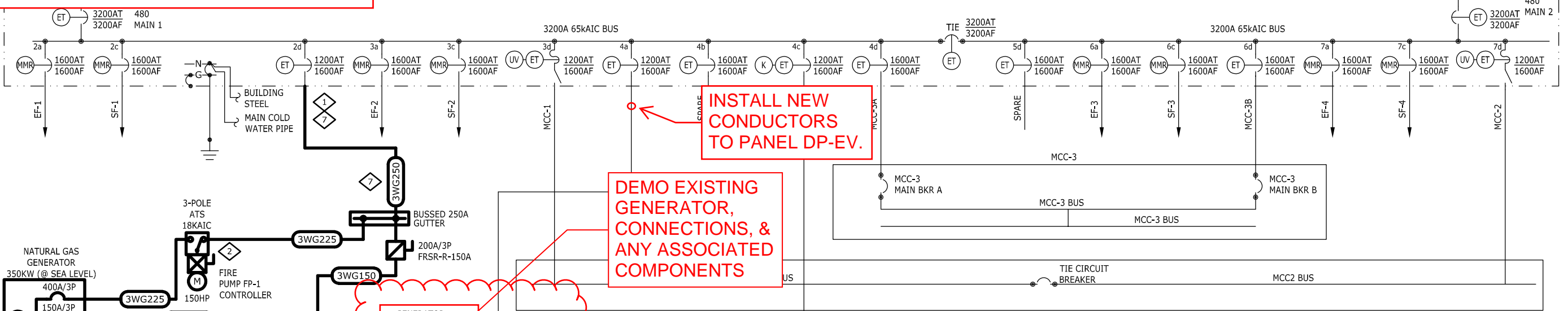
ART

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GENERAL NOTES:

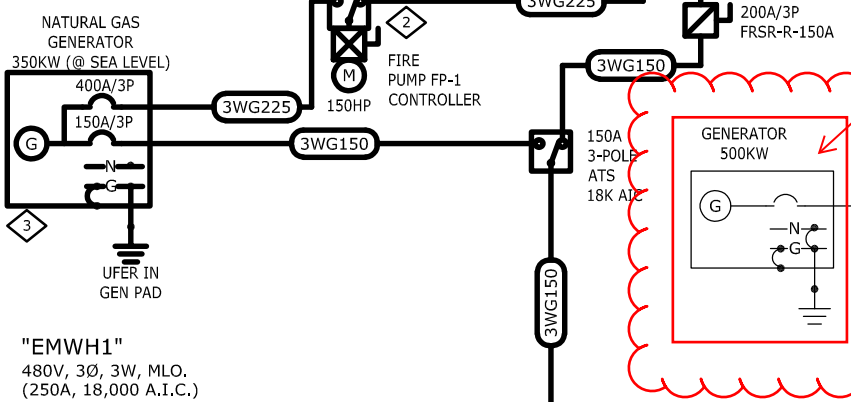
1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DISCONNECTS, CONDUIT, WIRE, AND FINAL CONNECTIONS BETWEEN IDENTIFIED EQUIPMENT INCLUDING (BUT NOT LIMITED TO) FIRE PUMPS, FIRE PUMP CONTROLLER, CIRCULATING PUMPS, AND CONTROL PANELS.
2. REFER TO DRAWING E1.0 FOR FEEDER SCHEDULE.
3. REFER TO DRAWING E1.2 FOR GENERATOR, "EMWH1" AND "EMWL1" LOAD INFORMATION.



INSTALL NEW CONDUCTORS TO PANEL DP-EV.

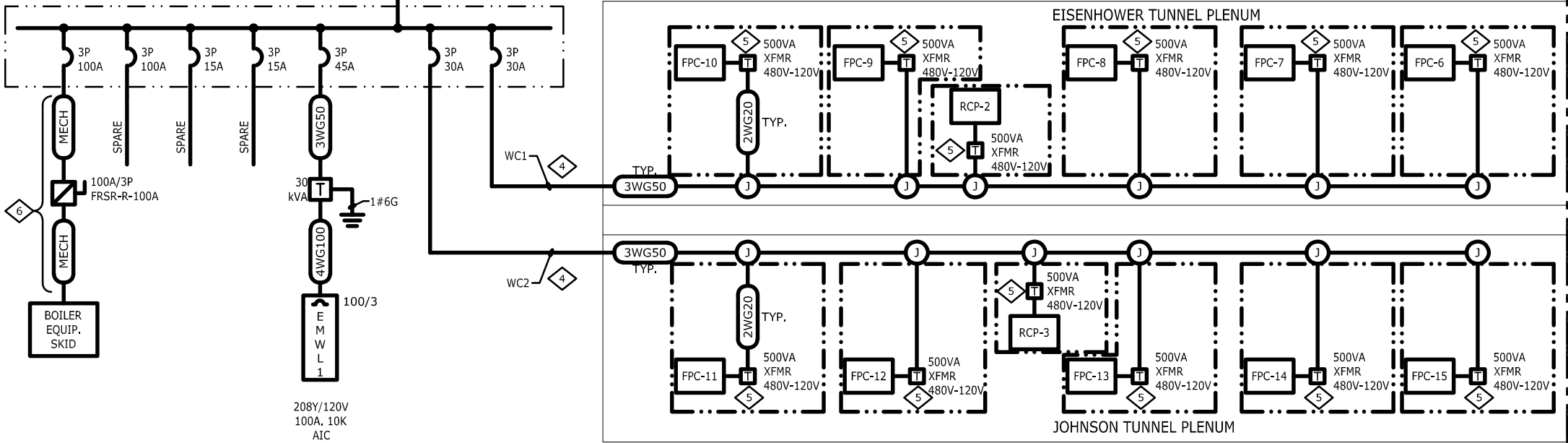
DEMO EXISTING GENERATOR, CONNECTIONS, & ANY ASSOCIATED COMPONENTS

REPLACE ATS WITH PULLBOX



WORK NOTES:

1. UTILIZE EXISTING SPARE 1,600A CIRCUIT BREAKER IN EXISTING 480/277V SWITCHGEAR TO POWER NEW FIRE ALARM SYSTEM. COORDINATION OF THE WORK ASSOCIATED WITH THE NEW FEEDER INSTALLATION CAN BE COMPLETED WHILE THE SWITCHGEAR IS ENERGIZED. PROGRAM ENGINEER SUPPLIED CIRCUIT BREAKER SETTINGS INTO TRIP UNIT. SET TRIP TO 1,200A. PROVIDE AN ENGRAVED LABEL AT BREAKER TO STATE "FIRE PUMP DISCONNECTING MEANS".
2. INSTALL AND WIRE NEW 480/277V FIRE PUMP LISTED 3-POLE AUTOMATIC TRANSFER SWITCH AND CONTROLLER, 18K AIC RATING. PROVIDE SKID MOUNTED OR ON A HOUSEKEEPING PAD.
3. FURNISH, INSTALL AND WIRE NEW OUTDOOR CUMMINS GFBC 350KW (@ SEA LEVEL; DE-RATED TO 238 KW AT ELEVATION) NATURAL GAS GENERATOR WITH 105C ALTERNATOR, AND REMOTE ANNUNCIATOR (LOCATED IN FP/BOILER ROOM).
4. ROUTE POWER FOR TUNNEL FIRE PROTECTION SYSTEM PANELS WITH CONDUITS SHOWN ON THE SYSTEMS GROUP DRAWINGS.
5. PROVIDE SINGLE PHASE STEP DOWN TRANSFORMER WITH PRIMARY(0.8A) AND SECONDARY(4A) OVER-CURRENT PROTECTION AND DISCONNECTING MEANS. INSTALL TRANSFORMER WITHIN THE FPC/RCP PANEL IN LOCATION SHOWN IN THE SYSTEMS GROUP DRAWINGS. COORDINATE INSTALLATION WITH SYSTEMS GROUP.
6. REFER TO EQUIPMENT SCHEDULE - SHEET E1.2 FOR FEEDER SIZE TO BOILER EQUIPMENT SKID.
7. FEEDER AND BUSSED GUTTER ARE SIZED FOR FIRE PUMP AND CIRCULATION PUMPS NOT RUNNING SIMULTANEOUSLY.

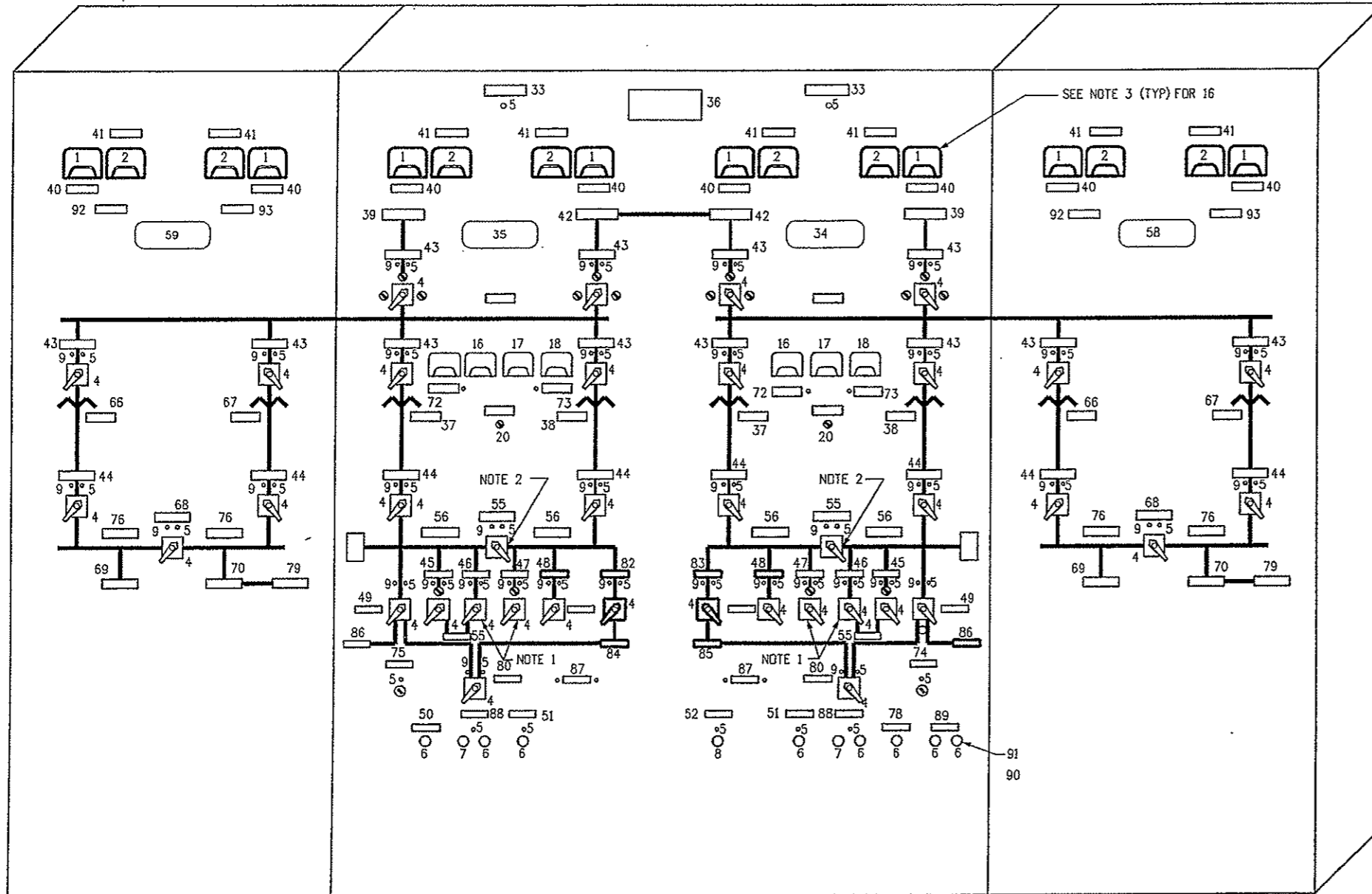


1 WEST VENTILATION BLDG 480V SWITCHGEAR ONE-LINE DIAGRAM
SCALE:N.T.S.

XREFS: (x-tb) LAYOUTS: (E2.1 WEST ELECTRICAL ONE-LINE DIAGRAM) SHEETS: (Electrical\E2.1 WEST ELECTRICAL ONE-LINE DIAGRAM.dwg JAN 29, 2015 10:20AM JBAKER DIMSCALE=1 P:\181914002\DWG\jmt - fixed fire suppression system)

E2.1 WEST ELECTRICAL ONE-LINE DIAGRAM

RECORD DRAWINGS - 2015-11-16



EQUIPMENT LIST

1. AMMETER TYPE 171-141-LSV3 0-3000 AMP. SEE NOTE 3.
2. VOLTMETER TYPE 171-031-SJSJ AC 0-600 VOLTS. SEE NOTE 3.
3. SWITCH TYPE S81, 2 STAGE WITH KIRK KEYLOCK, 55-185285P3, ON-OFF.
4. SWITCH TYPE S81, 2 STAGE 55-185285F6, ON-OFF.
5. INDICATING LIGHTS, TYPE ET 16, RED, 125 V.D.C.
6. CR2940UA202B PUSH BUTTON.
7. CR2940UA202C PUSH BUTTON.
8. CR2940UB202A SELECTOR SWITCH.
9. INDICATING LIGHT, TYPE ET-16 GREEN 125 V.D.C.
10. 0-5 MILLIAMMETER, TYPE 171-FXFX WITH 0-3000 AMP SCALE.
11. 0-5 MILLIAMMETER, TYPE 171-FXFX WITH 0-600 VOLT SCALE.
12. TERMINAL BOARD, (NOT SHOWN) CR151B26.
13. TRANSFORMER #1.
14. TRANSFORMER #2.
15. SWITCH, TYPE S81, WITH KIRK KEYLOCK, 55-188285P4.
16. AMP METER.
17. HERTZ METER.
18. VOLT METER.
19. APPROACH LOW OIL PRESSURE LIGHT.
20. GOVERNOR CONTROL.
21. APPROACH HIGH WATER TEMPERATURE.
22. AMMETER, AC 0-800AMP.
23. VOLTMETER, AC 0-3000 VOLT.
24. 0-5 MILLIAMMETER WITH 0-800 AMP SCALE.
25. 0-5 MILLIAMMETER WITH 0-3000 VOLT SCALE.
26. 0-5 MILLIAMMETER WITH 0-1000 AMP SCALE.
27. 0-5 MILLIAMMETER WITH 55-65 HERTZ SCALE.
28. 0-5 MILLIAMMETER WITH 0-600 VAC SCALE.
29. INDICATING LIGHT, RED 125 V.D.C.
30. PUSHBUTTON RESET.
31. SELECTOR SWITCH, SPRING RETURN TO CENTER FROM LEFT & RIGHT POSITIONS, FAST-OFF-SLOW.
32. SELECTOR SWITCH, START-STOP.

NAMEPLATE SCHEDULE

FIRST LINE	SECOND LINE	THIRD LINE	DETAIL
33. POWER	ON		2
34. EAST BUILDING	BUILDING		1
35. WEST BUILDING	BUILDING		1
36. POWER CONTROL	CONTROL		1
37. TRANSFORMER NO. 2		BOARD	2
38. TRANSFORMER NO. 1		SECONDARY	2
39. PUBLIC SERVICE INCOMING		SECONDARY LINE	2
40. AMMETER			2
41. VOLTMETER			2
42. 24.9 K.V.			2
43. LDAD	EMERGENCY BREAK	TIE SWITCH	2
44. AIR CIRCUIT FEEDER	CIRCUIT FEEDER	BREAKER	2
45. MCC #1	FEEDER	BREAKER	2
46. MCC #2	FEEDER	BREAKER	2
47. MCC #3	FEEDER	BREAKER A	2
48. MCC #3	FEEDER	BREAKER B	2
49. EMERGENCY GENERATOR	GENERATOR	BREAKER	2
50. TUNNEL & BUILDING	NORMAL LIGHTS	RESET	2
51. BUILDING	POWER PANELS	RESET	2
52. SEDIMENTATION TANKS	NORMAL LIGHTS	RESET	2
53. TUNNEL & BUILDING	GENERATOR	CONTROL	2
54. EMERGENCY TIE BREAKER	TIE BREAKER		2
55. 460 VOLT BUSS	460 VOLT BUSS		2
56. 460 VOLT BUSS	460 VOLT BUSS		2
57. 24.9 K.V. BUILDING	24.9 K.V. BUILDING		2
58. EAST BUILDING	EAST BUILDING		2
59. WEST BUILDING	WEST BUILDING		2
60. TRANSFORMER NO. 1A	TRANSFORMER NO. 1A		2
61. TRANSFORMER NO. 1B	TRANSFORMER NO. 1B		2
62. AMMETER			2
63. VOLTMETER			2
64. LDAD	BREAK CIRCUIT	SWITCH BREAKER	2
65. AIR			2
66. TRANSFORMER NO. 1A	TRANSFORMER NO. 1A		2
67. TRANSFORMER NO. 1B	TRANSFORMER NO. 1B		2
68. 2400 VOLT TIE	2400 VOLT TIE	BREAKER	2
69. MCC1A SUPPLY	MCC1A SUPPLY		2
70. MCC1B			2
71. EMERGENCY GENERATOR	EMERGENCY GENERATOR	BREAKER	2
72. APPROACHING LOW OIL PRESS	APPROACHING LOW OIL PRESS	CONTROL	2
73. APPROACHING HIGH WATER TEMP	APPROACHING HIGH WATER TEMP	CONTROL	2
74. EMERGENCY GENERATOR	EMERGENCY GENERATOR		2
75. EMERGENCY GENERATOR	EMERGENCY GENERATOR		2
76. 2400 VOLT BUSS	2400 VOLT BUSS		2
77. WEST VENT BUILDING	WEST VENT BUILDING		2
78. NORTH TUNNEL LIGHTS	NORTH TUNNEL LIGHTS		2
79. SOUTH TUNNEL LIGHTS	SOUTH TUNNEL LIGHTS		2
80. EAST PEAK SHAVING	EAST PEAK SHAVING		2
81. WEST PEAK SHAVING	WEST PEAK SHAVING		2
82. AUTOMATIC TRANSFER SWITCH	AUTOMATIC TRANSFER SWITCH	SWITCH	2
83. AUTOMATIC TRANSFER SWITCH	AUTOMATIC TRANSFER SWITCH	SWITCH	2
84. TRANSFER SWITCH	TRANSFER SWITCH	ATS-WV	2
85. TRANSFER SWITCH	TRANSFER SWITCH	ATS-EV	2
86. EMERGENCY GENERATOR	EMERGENCY GENERATOR		2
87. EAST D.C. UNDER VOLTAGE	EAST D.C. UNDER VOLTAGE		2
88. TUNNEL & BLDG. D.C. LIGHTS	TUNNEL & BLDG. D.C. LIGHTS	CONTROL ON	2
89. NORTH TUNNEL BROWN OUT	NORTH TUNNEL BROWN OUT	ENGAGE ONE ONLY	2
90. SOUTH (PUSHBUTTON)			2
91. NORTH (PUSHBUTTON)			2
92. EXHAUST			2
93. SUPPLY			2


NOTES:

1. REWIRE TO EXCHANGE MCC#2 AND MCC #3 BREAKER CONTROL.
2. ADD NEW TIE BREAKER CONTROL SWITCH, TYPE 4.
3. PROVIDE NEW METER IN PLACE OF EXISTING METER.
4. NAMEPLATES SHALL BE ADHESIVE TYPE.
5. INDICATING LIGHTS SHALL BE MB120 BULB TYPE, NOT LED TYPE.
6. ALL MODIFICATIONS TO POWER BOARD TO BE PAID FOR AS ITEM 210-00478, MODIFY POWER CONTROL BOARD WITH THE FOLLOWING QUANTITIES:

ITEM	QUANTITY	UNIT
MODIFY POWER CONTROL BOARD	1	LS

EXISTING POWER CONTROL BOARD
N.T.S.

THIS SHEET IS SHOWN FOR REFERENCE ONLY AND IS FROM RECORD DOCUMENTS. CONTRACTOR/ DESIGN BUILD TEAM TO CONDUCT THEIR OWN SITE INVESTIGATION TO VERIFY INFORMATION SHOWN. ANY DECISION MADE IN FIELD SHALL NOT BE DEPENDANT ON INFORMATION SHOWN.

Print Date: 10/2/2007	Sheet Revisions Date: Comments Init. 	Colorado Department of Transportation  Mountain Residency P.O. Box 399 Dumont, CO 80436 Phone: 303-512-5750 FAX: 303-512-5775 Region 1 INZ	As Constructed	POWER CONTROL BOARD LAYOUT AND DETAILS		Project No./Code		
Drawing File Name: 16096LEDiagram01.dgn			No Revisions: 11/23/09			IM-0703-319		
Horiz. Scale: Vert. Scale:					Designer: J. SHELDON	Structure	16096	
Unit Information Unit Leader Initials					Detailer: R. KWONG	Numbers	Sheet Number 14	
			Void:	Sheet Subset:	Subset Sheets:			

THIS SHEET IS SHOWN FOR REFERENCE ONLY OF PROPOSED ELECTRICAL EQUIPMENT LOCATIONS. CONTRACTOR/ DESIGN BUILD TEAM TO CONDUCT THEIR OWN SITE INVESTIGATION BEFORE COMPLETING WORK. ANY DECISION MADE IN FIELD SHALL NOT BE DEPENDANT ON INFORMATION SHOWN.



NOTE: NOT TO SCALE



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CHECKED:	LS
DATE:	11/12/2021
JOB NUMBER:	21047
PROJECT MGR:	AW

EISENHOWER/JOHNSON MEMORIAL TUNNEL ELECTRICAL EQUIPMENT LOCATIONS OPTION #1