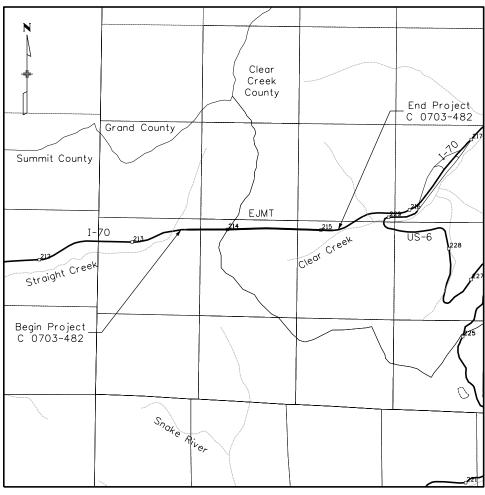
		PoDI /	NHS
FHWA	PROJECT	OF	

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

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



PROJECT LOCATION MAP



Print Do	ote: 11/12/2021			Sheet Revisions		Colorado Department of Transportation	Preliminary	Contract Information	Project No./Code
File Nar	me: 24210DES_TitleSht.dgn		Date:	Comments	Init.		,	Contractor:	
Horiz. S	Scale: 1:1 Vert. Scale: As Noted	\Box				2829 W. Howard Pl. Denver, CD 80204	No Revisions:	Resident Engineer:	C 0703-482
Unit Inf	ormation XXX	\Box				Phone: 303-512-4272 FAX: 303-757-9886	Revised:	Project Engineer:	24210
	CINS 7604 Technology Way, Suite 400 Denver, CD 80237 Phone: (303) 221-7275	\Box				AX. 303 737 3000		PRDJECT STARTED: / / ACCEPTED: / /	
	Phone: (303) 221-7275 Fox: (303) 221-7276	\Box				Region 1 XXX	Void:	Comments:	Sheet Number 01

TABULATION OF LENGTH &	DES	SIGN	DAT	Α	
			FEE	Т	
LOCATION		ROAD	WAY		MAJOR
	I-	70			STR.
BEGIN PROJECT C 0703-482 APPRDX.MP 213.5 DN I-70	()			
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	()			
TOTAL	()			8,959
SUMMARY OF PROJECT LENGTH		FE	ET		MILES
RDADWAY (NET LENGTH) MAJOR STRUCTURE		ر 8,9			0 1.70
PRDJECT GROSS LENGTH		8,9	959		1.70

ART

Related Projects: P. E. UNDER PROJECT: Project Number Project Code:

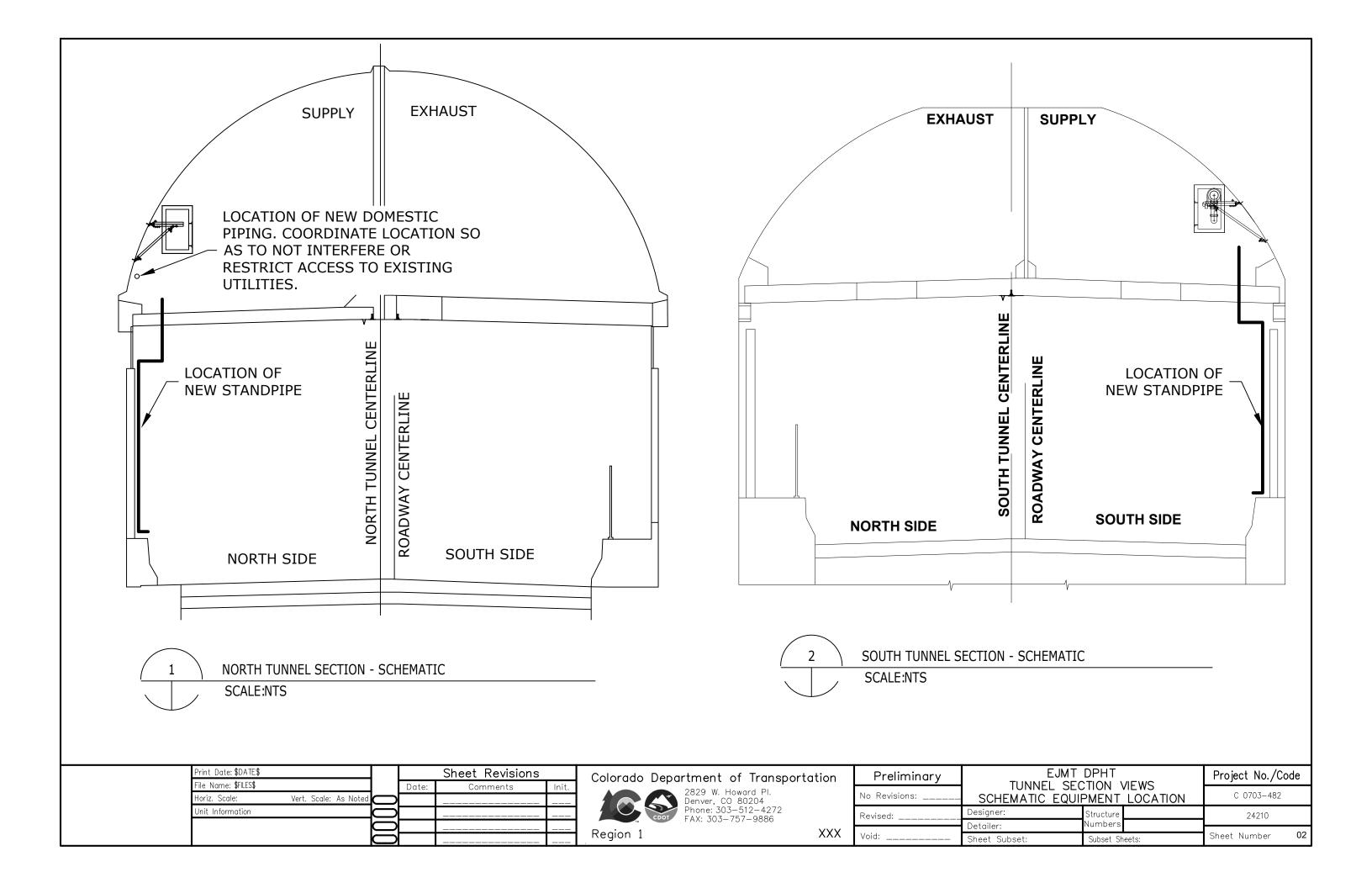


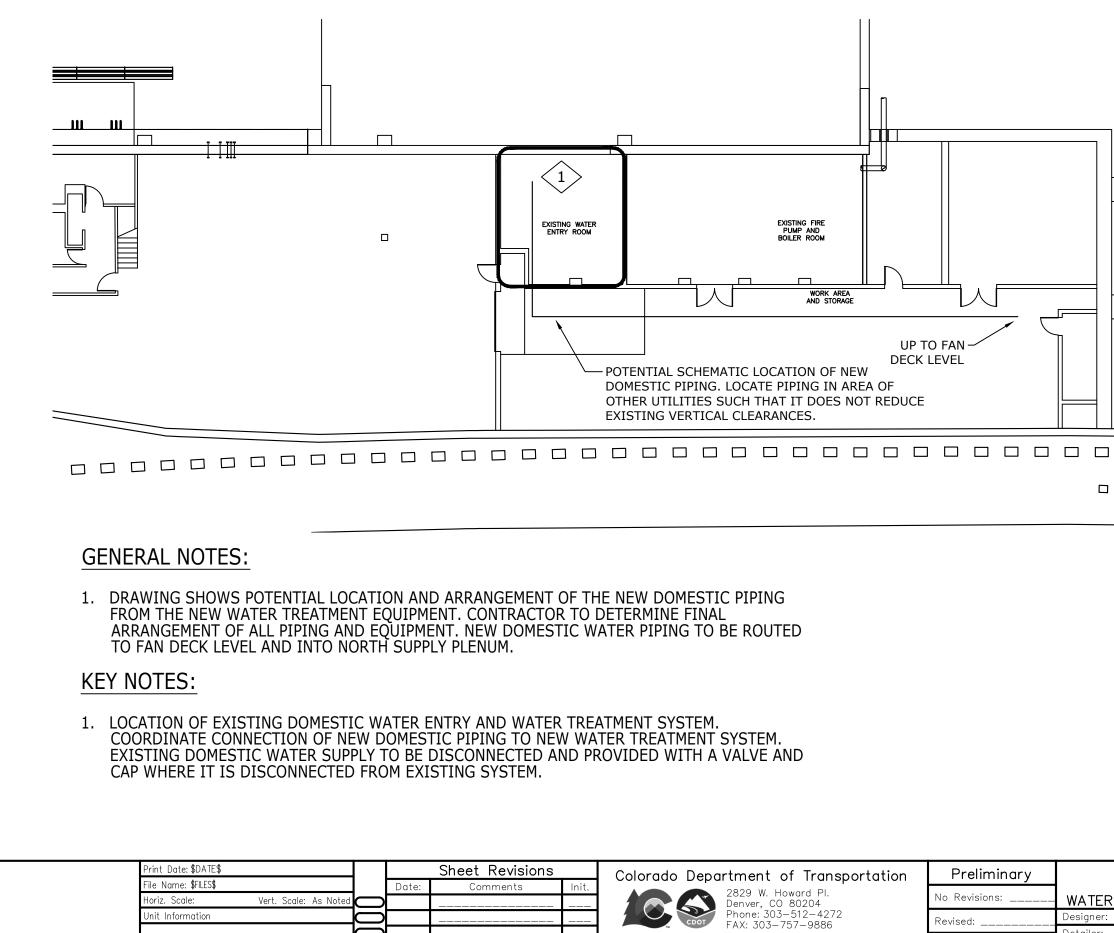
R.D.W. Projects: R.D.W. Project Description

SHEET NO.	INDEX OF SHEETS			
1	TITLE SHEET			
2 TUNNEL SECTIONS				
3	ROADWAY LEVEL PLAN - WEST			
4 LOWER LEVEL PLAN - EAST				
5-7 HEAT TRACE POWER PLAN				
8-12	ELECTRICAL POWER PLAN			
13	ELECTRIAL EQUIPMENT LOCATION			

DRAFT RFP - ADDENDUM #1

NOVEMBER 12, 2021





Region 1

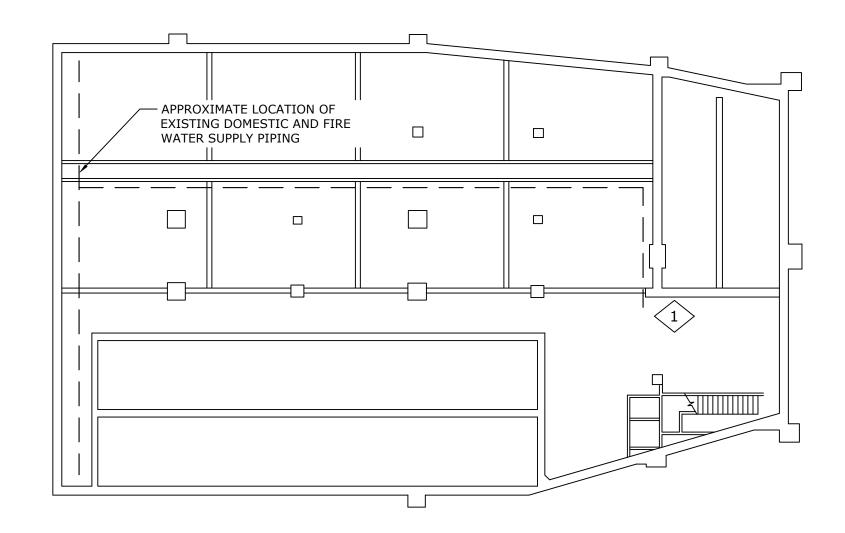
EJMT ROADWAY L	DPHT EVEL-WEST T ROOM LOCATION	Project No./Code C 0703-482
R TREATMEN	Structure	24210
ubset:	Numbers Subset Sheets:	Sheet Number 03
	e	

Detailer:

Sheet Si

XXX

Void:



GENERAL NOTES:

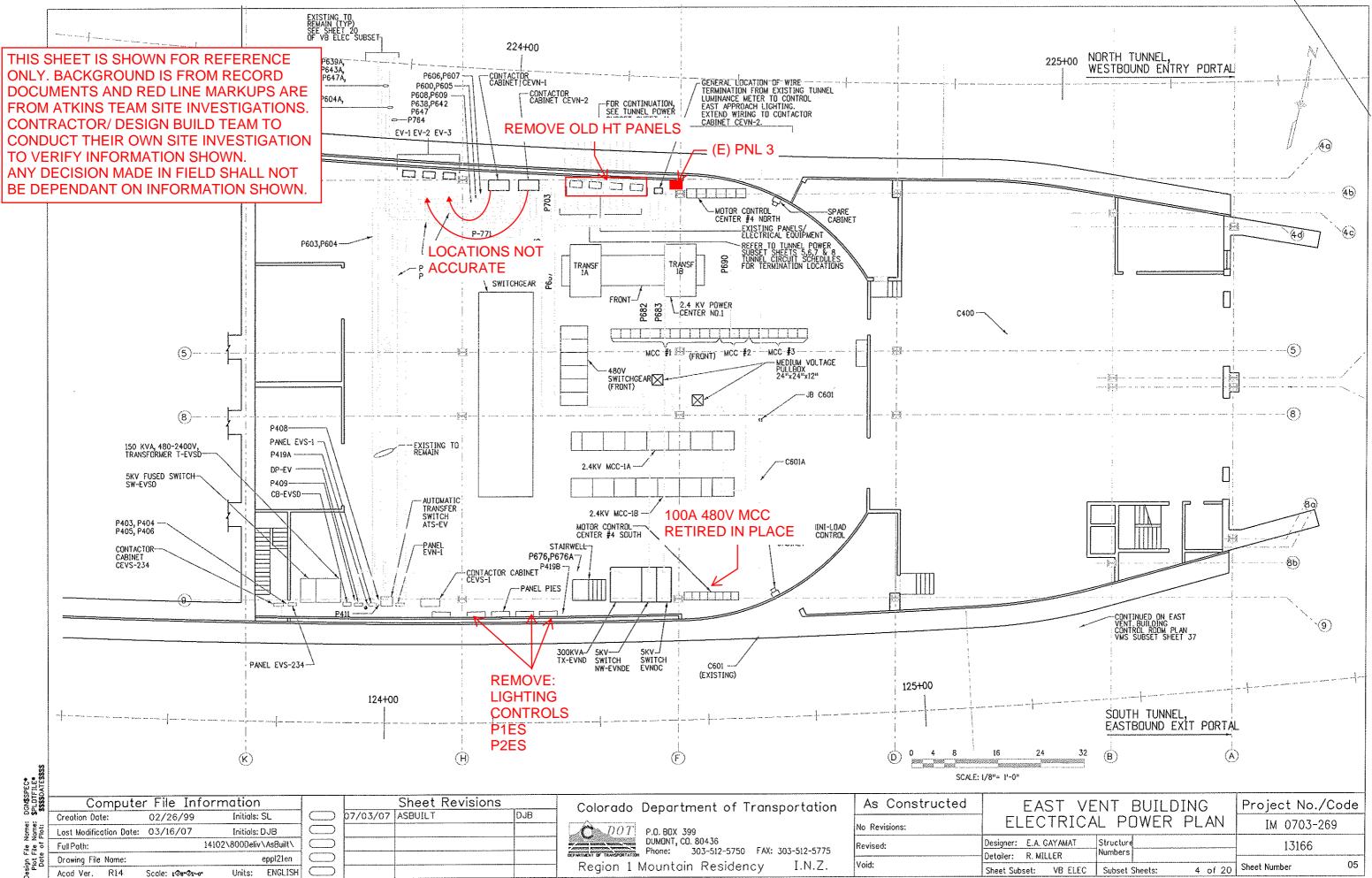
1. DRAWING SHOWS GENERAL LOCATION AND ARRANGEMENT OF THE DOMESTIC PIPING TO THE NEW WATER TREATMENT EQUIPMENT. CONTRACTOR TO DETERMINE FINAL ARRANGEMENT OF ALL PIPING AND EQUIPMENT.

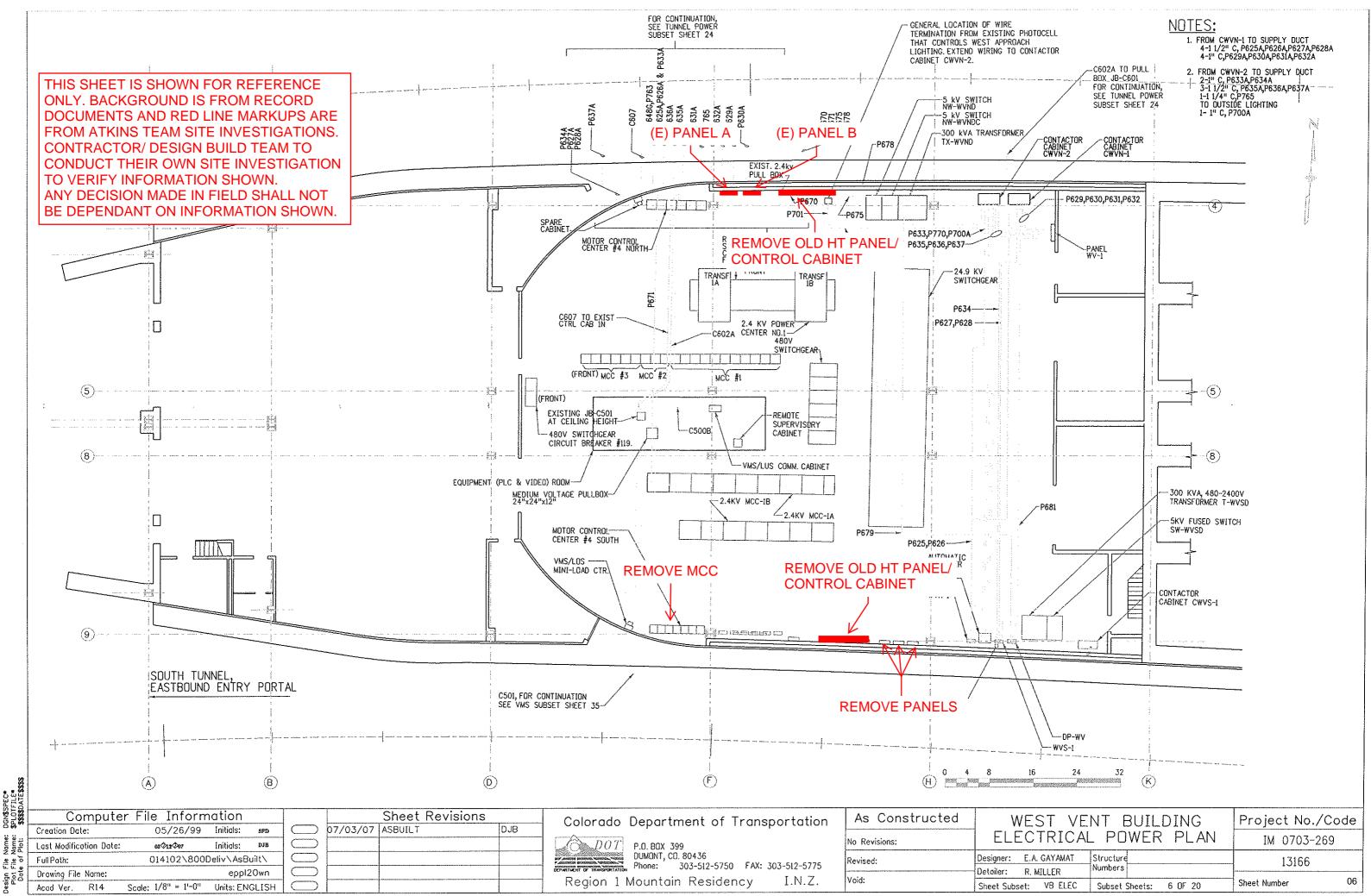
KEY NOTES:

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.

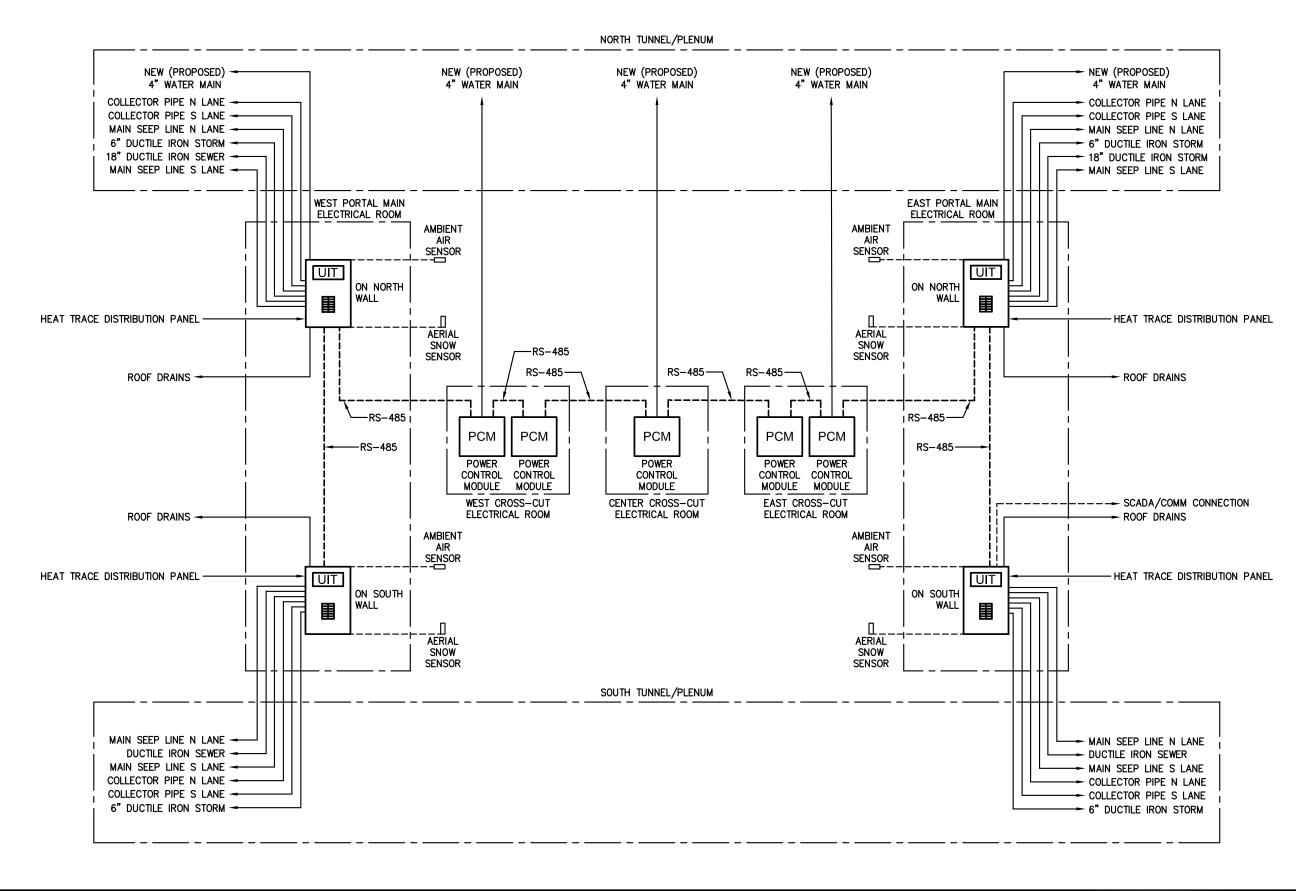
Print Date: \$DATE\$				Sheet Revisions		Colorado Department of Transportation	Preliminary	1
File Name: \$FILES\$			Date:	Comments	Init.		<u>,</u>	-
Horiz. Scale:	Vert. Scale: As Noted	\bigcirc				Denver CO 80204	No Revisions:	WATEF
Unit Information		\bigcirc				Phone: 303-512-4272 FAX: 303-757-9886	Revised:	Designer:
		\bigcirc					·	Detailer:
		\bigcirc				Region 1 XX	X Void:	Sheet Su

EJMT	Project No./Code			
	,	LOCATION	C 0703-482	
	Structure Numbers		24210	
bset:	Subset Sh	eets:	Sheet Number	04





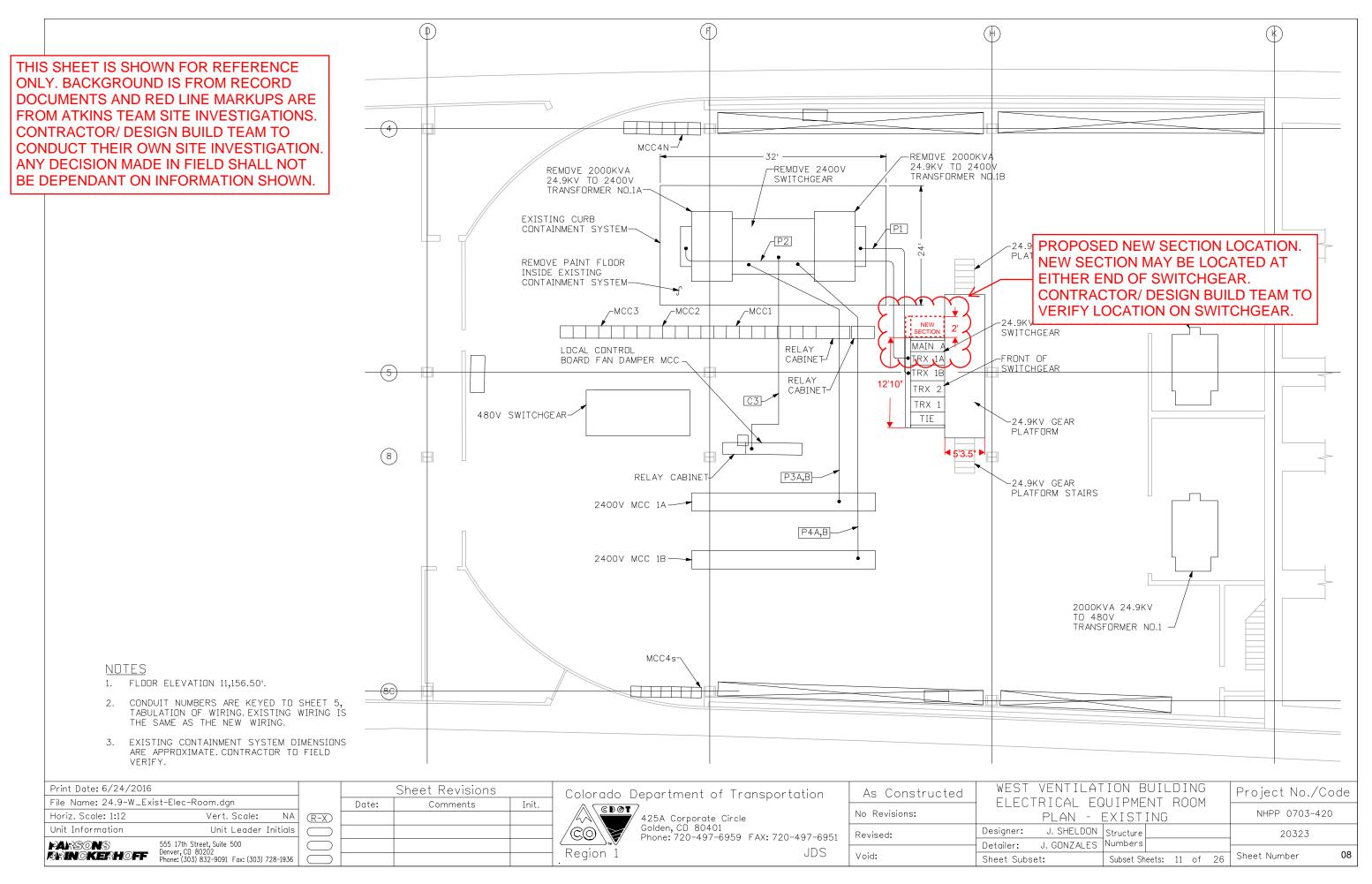
e e Pign ő

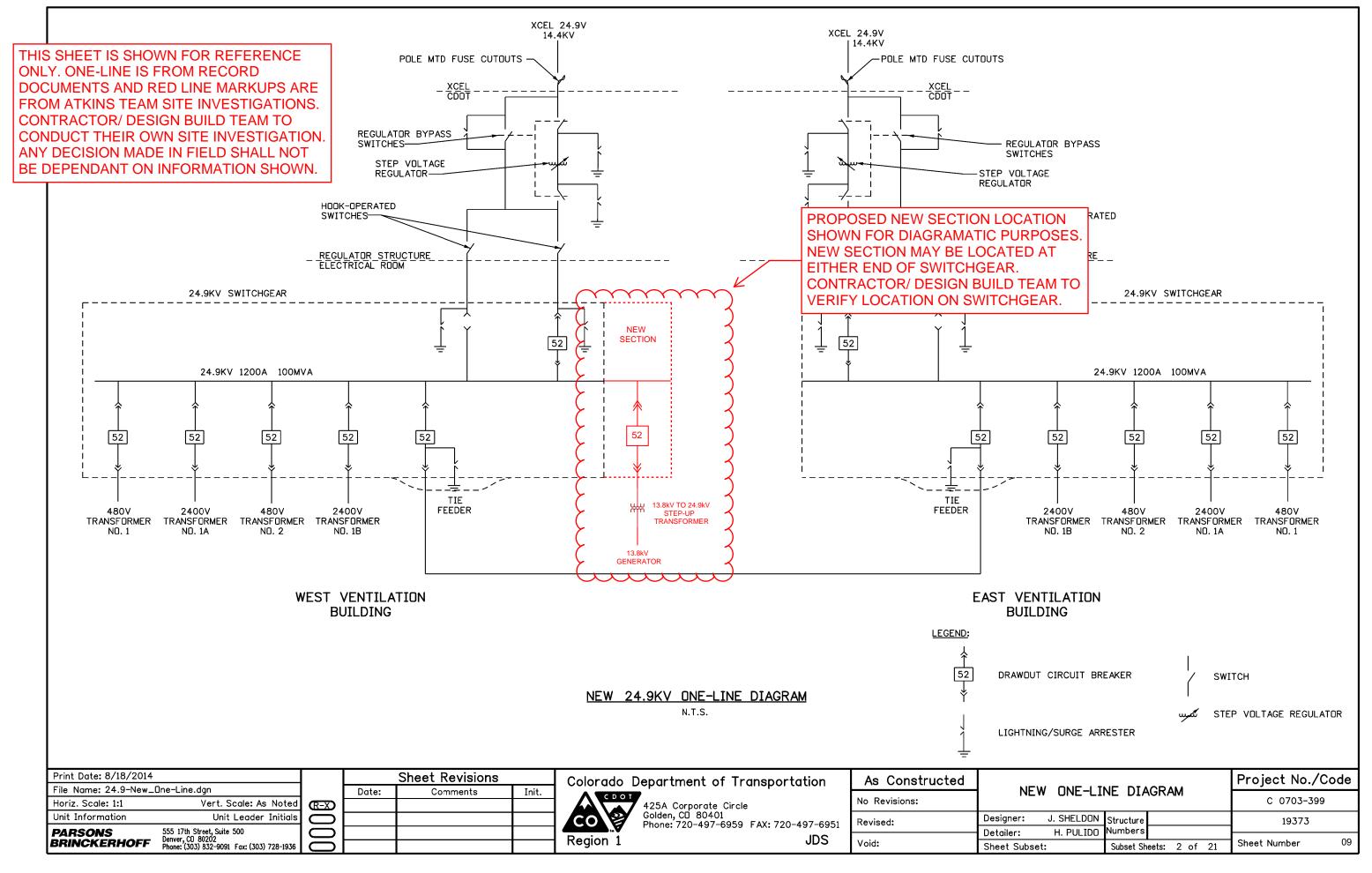




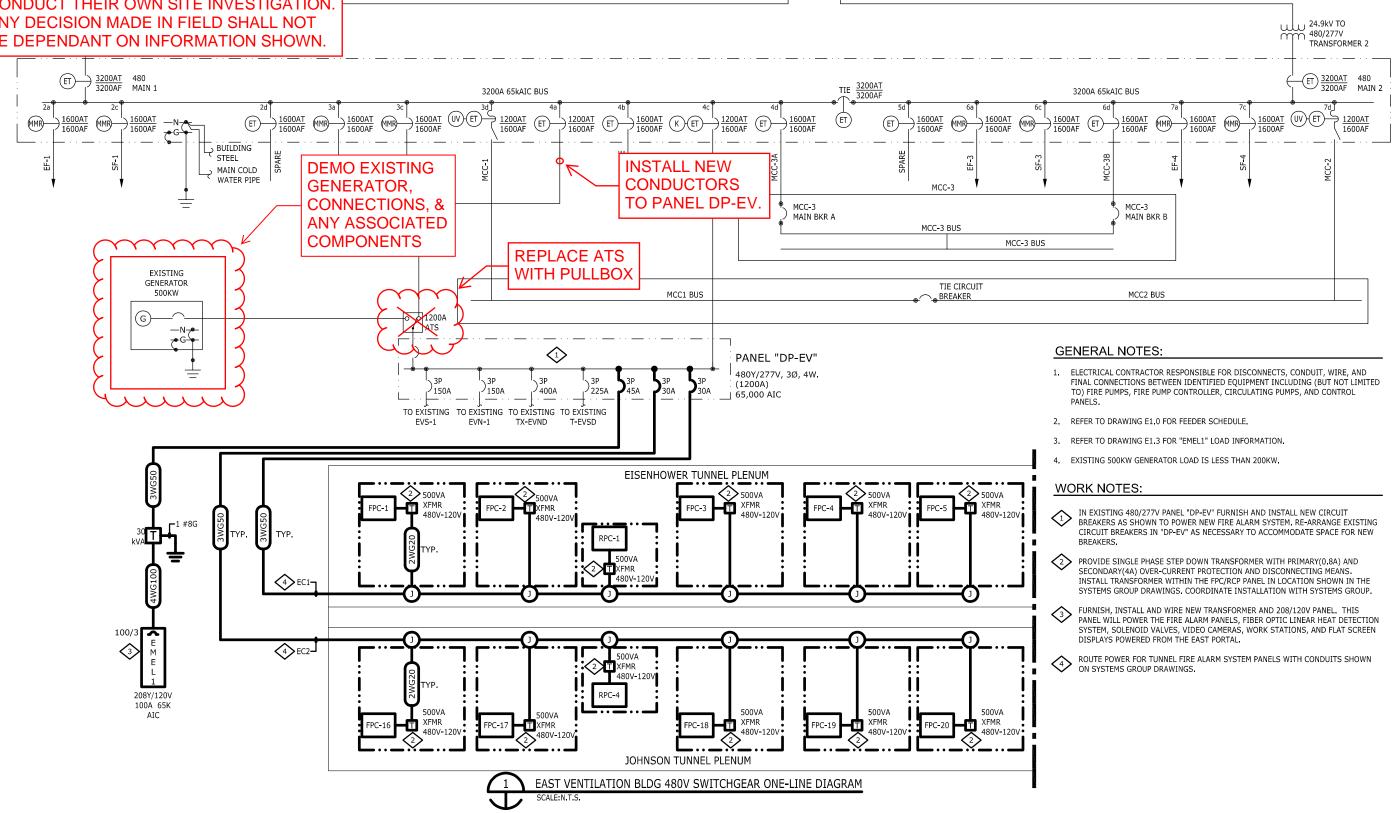
DRAWN:	PKE
CHECKED:	LS
DATE:	10/13/2021
JOB NUMBER:	21047
PROJECT MGR:	AW

EISENHOWER/JOHNSON MEMORIAL TUNNEL PROPOSED HEAT-TRACE BLOCK DIAGRAM



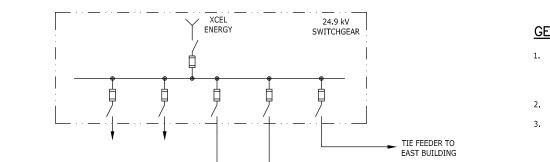


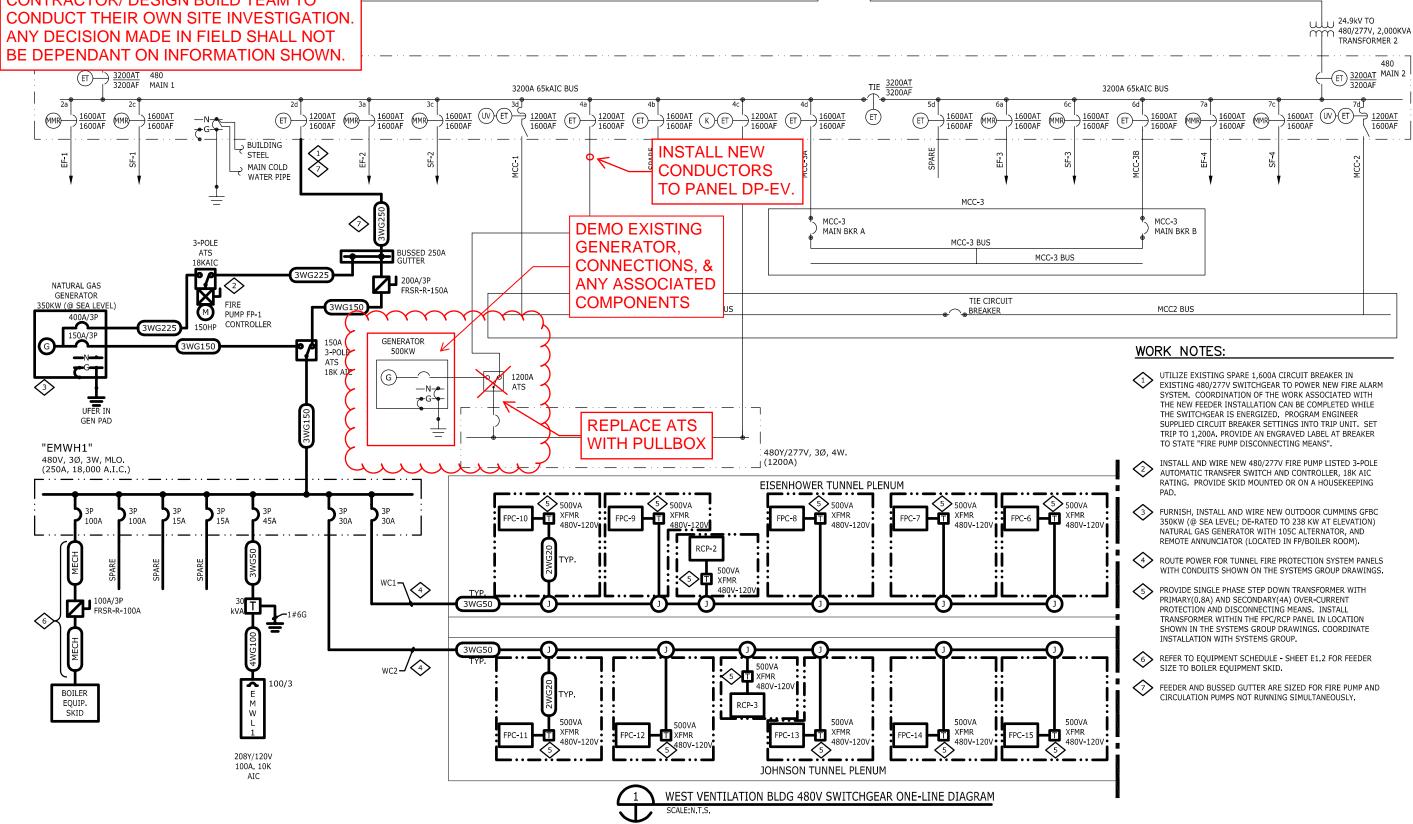




E2.2 EAST ELECTRICAL ONE-LINE DIAGRAM

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





GENERAL NOTES:

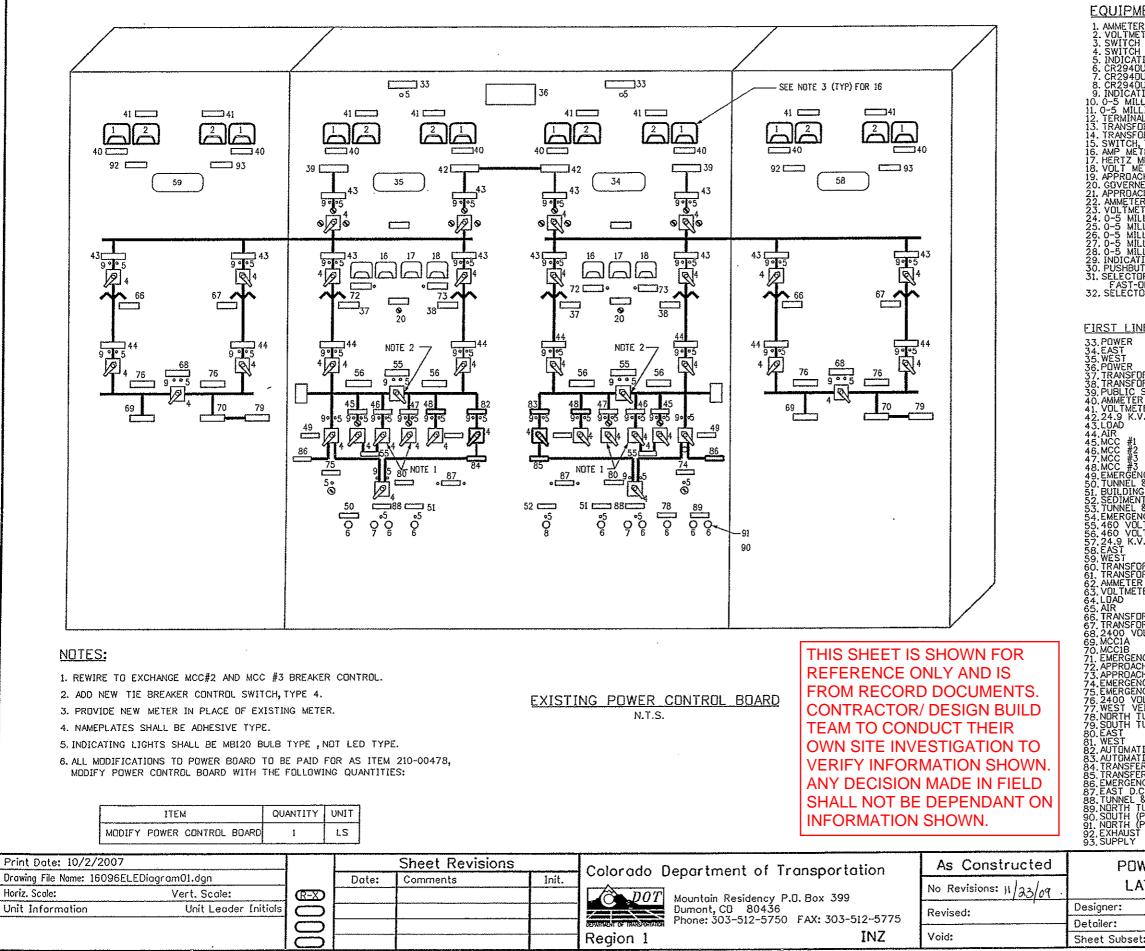
ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DISCONNECTS, CONDUIT, WIRE, AND FINAL CONNECTIONS BETWEEN IDENTIFIED EOUIPMENT INCLUDING (BUT NOT LIMITED TO) FIRE PUMPS, FIRE PUMP CONTROLLER, CIRCULATING PUMPS, AND CONTROL PANELS.

2. REFER TO DRAWING E1.0 FOR FEEDER SCHEDULE.

REFER TO DRAWING E1.2 FOR GENERATOR, "EMWH1" AND "EMWL1" LOAD INFORMATION.

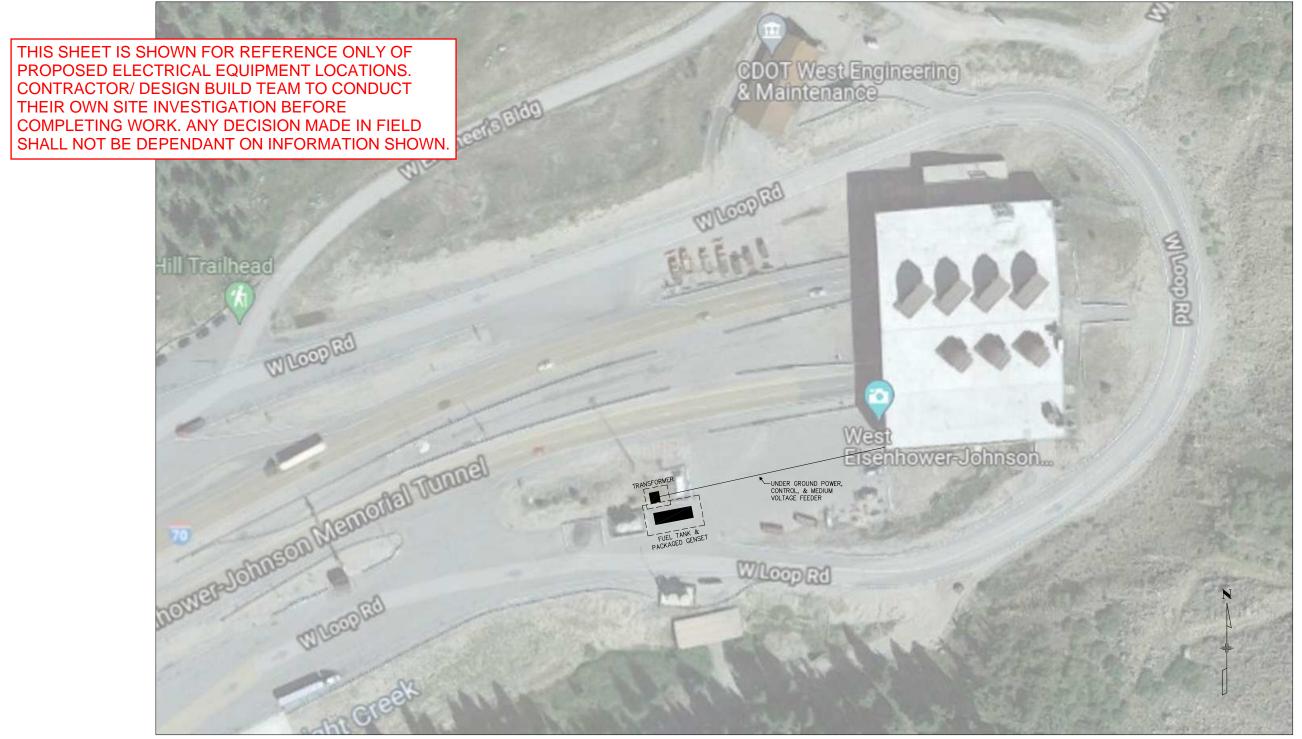
RT

E2.1 WEST ELECTRICAL ONE-LINE DIAGRAM



1

PMENT LIST						
TER TYPE 171-141	-LSV3 0-3000 AMP. SE	EE NOTE 3. DETS, SEE NOTE 3.				
ICH TYPE S81, 2 5	TAGE WITH KIRK KEY	LOCK, 55-185285P3, ON-OFF.				
CATING LIGHTS, TY	THE ET 16, RED, 125 V.	D.C.				
<u>TMEINI_LISI</u> TER TYPE 171-141-LSV3 0-3000 AMP. SEE NOTE 3. METER TYPE 171-031-SJSJ AC 0-600 VDLTS. SEE NDTE 3. CH TYPE S81, 2 STAGE WITH KIRK KEYLOCK, 55-185285P3, ON-OFF. CH TYPE S81, 2 STAGE 55-185285F6, ON-OFF. ATING LIGHTS, TYPE ET 16, RED, 125 V.D.C. 400J202B PUSH BUTTON. 440UA202C PUSH BUTTON. 440UA202A SELECTOR SWITCH. ATING LIGHT, TYPE ET-16 GREEN 125 V.D.C. MILLIAMMETER, TYPE 171-FXFX WITH 0-3000 AMP SCALE. MILLIAMMETER, TYPE 171-FXFX WITH 0-600 VOLT SCALE. INAL BDARD, (NOT SHOWN) CR151B26. SFORMER #1. SFORMER #2. CH, TYPE SB1, WITH KIRK KEYLOCK, 55-188285P4. METER. Z METER.						
CATING LIGHT, TYP	E ET-16 GREEN 125 V	ADC.				
MILLIAMMETER, TYP	E 171-FXFX WITH 0-60 SHOWN) CR151B26.	00 VOLT SCALE.				
SFORMER #1.						
CH, TYPE SBI, WITH METER.	H KIRK KEYLOCK, 55-	188285P4.				
Z METER. METER.						
DACH LOW DIL PR	ESSURE LIGHT.					
METER, AC 0-3000 MILLIAMMETER WI) VOLT. TH 0-800 AMP SCALE. TH 0-3000 VOLT SCAL TH 0-1000 AMP SCALE TH 0-1000 AMP SCALE. TH 0-600 VAC SCALE. 1 125 V.D.C. ING RETURN TO CENTI	~				
MILLIAMMETER WI	TH 0-3000 VOLT SCAL TH 0-1000 AMP SCALE	.E. '-				
MILLIAMMETER WI	TH 55-65 HERTZ SCAL TH 0-600 VAC SCALE.	. E .				
BUTTON RESET.	125 V.D.C.	ED FROM LEFT & RICHT ROSITIONS				
CTUR SWITCH, SPR	ING RETORN TO CENT	ER FROM LEFT & RIGHT POSITIONS				
CIBR SWEECH, STA	MEPLATE SCHED	N II F				
LINE R	SECOND LINE ON	2				
•	BUILDING	1				
r Sformer	CONTROL NO. 2	BOARD 1 SECONDARY 2				
K SFORMER SFORMER IC SERVICE TER JEFER	NO. 1 INCOMING	SECONDARY 2 LINE 2				
TER METER		22				
K.V.	EMERGENCY BREAK	TIE 2 SWITCH 2 BREAKER 2 BREAKER 2 BREAKER 2				
# <u>1</u>	CIRCUIT FEEDER FEEDER	BREAKER 2 BREAKER 2				
#2 #3	FEEDER	BREAKER 2 BREAKER A 2 BREAKER B 2				
#1 #2 #3 GENCY EL & PLU DINC	FEEDER GENERATOR	BREAKER 2 BREAKER 2				
EL & BUILDING	FLEDER GENERATOR NORMAL LIGHTS POWER PANELS TANKS NORMAL LIGHTS	RESET 2 RESET 2 VENT. FAN 2				
EL & BUILDING	NORMAL LIGHTS	RESET 2 CONTROL 2				
GENCY VOLT	TIE BREAKER	CONTROL 2				
K.V.	NOKMAL LIGHTS POWER PANELS TANKS NORMAL LIGHTS GENERATOR TIE BREAKER BUSS BUSS BUSS BUILDING BUILDING					
	DOIGOING	SOUTH TUNNEL 1 NORTH TUNNEL 1 SECONDARY 2				
SFORMER SFORMER TER	NO. 1A NO. 18	SECONDARY 2 2				
METER	BREAK	-				
SFORMER	CIRCUIT NO. 1A NO. 1B	BREAKER 2 2				
SFORMER VOLT	NO. 1B	BREAKER 2				
A	TIË EXHAUST SUPPLY	22				
GENCY DACHING	GENERATOR LOW OIL	BREAKER 2 PRESS 2				
DACHING GENCY GENCY	HIGH WATER	GOVERNOR CONTROL 2				
GENCY VOLT VENT BUILDING		SWITCH BREAKER BREAKER PRESS TEMP GOVERNOR CONTROL CONTROL RATOR NORMAL RESET SWITCH S				
H TUNNEL	BUSS EMERGENCY GENER BLDG, & LIGHTS LIGHTS PEAK SHAVING PEAK SHAVING TEMISEED	RATOR 2 NDRMAL RESET 2				
H TUNNEL	PEAK SHAVING	ź				
MATIC	(RANOF ER	SWITCH 3				
MATIC SFER	TRANSFER SWITCH	SWITCH 2 ATS-WV 4 ATS-EV 2				
SFER GENCY	SWITCH GENERATOR UNDER VOLTAGE	AIG-CV 2 2 2				
D.C. EL & BLDG. H TUNNEL H (PUSHBUTTON)	ÚÑDÉR VOLTAGE D.C. LIGHTS BROWN DUT	CONTROL ON 2 ENGAGE ONE ONLY 2				
H (PUSHBUTTON)						
H (PUSHBUTTON) UST LY						
		Project No. /Code				
OWER CONT		Project No./Code				
LAYOUT AND	D DETAILS	IM-0703-319				
J. SHELDON	Structure	16096				
R. KWONG	Numbers					
oset:	Subset Sheets:	Sheet Number 12				





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 pkelectrical.com © 2008-2011 PK Electrical, Inc.

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

EISENHOWER/JOHNSON MEMORIAL TUNNEL ELECTRICAL EQUIPMENT LOCATIONS OPTION #1

NOTE: NOT TO SCALE