

ADDENDUM TO THE CONTRACT

for the

Last Chance Basin Well Field Generator Replacement Contract No. E14-112

ADDENDUM NO.: FIVE

CURRENT DEADLINE FOR BIDS: June 20, 2014

PREVIOUS ADDENDA: FOUR

ISSUED BY: City and Borough of Juneau ENGINEERING DEPARTMENT 155 South Seward Street Juneau, Alaska 99801

DATE ADDENDUM ISSUED:

June 16, 2014

The following items of the contract are modified as herein indicated. All other items remain the same. This addendum has been issued and is posted online. Please refer to the CBJ Engineering Contracts Division webpage at: <u>http://www.juneau.org/engineering_ftp/contracts/Contracts.php</u>

DRAWINGS:

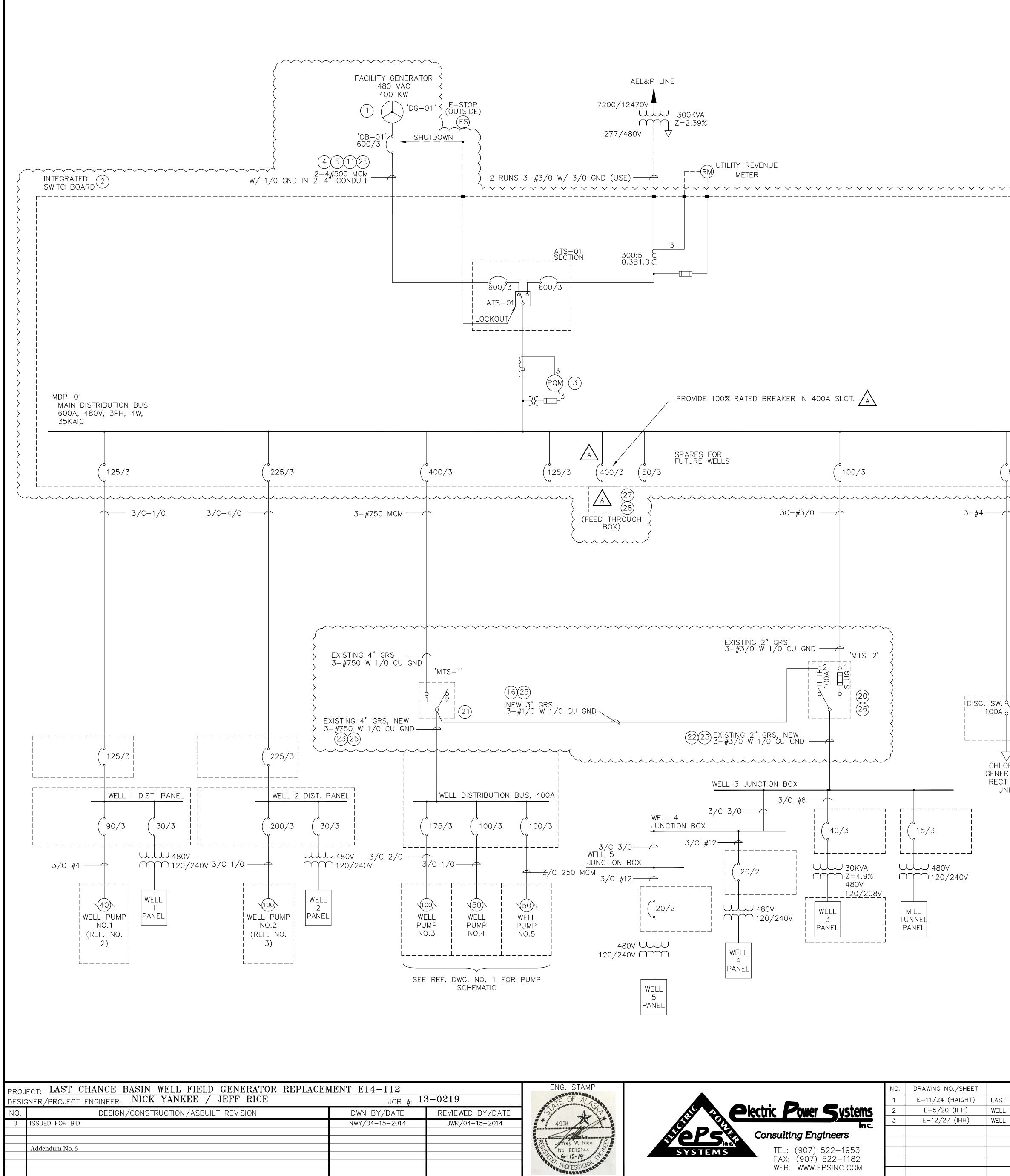
Item No. 1: Delete and replace the following drawings, labeled Addendum No. 5 in their entirety:

E2 – ONE-LINE DIAGRAM (DESIGN) E5 – CONSTRUCTION ONE-LINE (PAHSE 2B) E6 – CONSTRUCTION ONE-LINE (PHASE 3A) E7 – CONSTRUCTION ONE-LINE (PHASE 4A) E15 – GENERATOR ROOM LAYOUT (DEMOLITION)

By: Grea Smith.

Contract Administrator

Total number of pages contained within this Addendum: 6



	LAST CHANCE BASIN GENERATOR UPGRADES					
			Manu / Dart		MAJOR ELECTRICAL MATERIALS LIST	
	TAG	ID	Manu. / Part No	Est Qty	Description	Notes See specification section
-		DG-01	CATERPILLAR	1	400KW 480V 3Phase Diesel Generator Set. UL Approved Switchboard with 600 amp Service	263213 See specification section 262413 (switchboards), 263600
	2	IFS-ATS	EATON	1	Entrance rated Automation transfer switch (ATS), Utility Section and Main Distribution Panel (MDP)	(ATS), 262413 (MDP) and 262416 (Panelboards)
	3	PQM-01	EATON	1 SEE	Power Quality meter, Eaton PXM 6000 or owner approved equal Indoor Conduit for permanent generator power	See specification section 16910
······	4	4" EMT		DWG	leads. Indoor Conduit for permanent generator power	With Couplers, Bushings.
	5	4" LFMC		SEE DWG	leads - last section prior to generator terminal box.	With Couplers, Bushings.
	6		SQUARE D / Q0B360VH	1	120/208V, 3PH, 60A Breaker for Square D Type NQOD Panel.	Verify Breaker Type and Part No before ordering. For installation in Panel T.
	7	DG-M1		1	480V, 3PH, 300kW Rated Genset with integrated fuel tank and breaker for temporary use (Rental)	See Specification Section 263213
	8	DG-M2		1	480V, 3PH, 200kW Rated Genset with integrated fuel tank and breaker for temporary use (Rental)	See Specification Section 263213
	9	DG-M3		1	120/208V, 3PH, 15kW Genset with integrated fuel tank and breaker for temporary use (Rental)	See Specification Section 263213
	10	D1, D2, D3		3	Damper Actuators, 24VDC powered from generator batteries and acuated by Generator Run signal. See mechanical for details.	
	11	500 MCM XHHW-2		250 FT	Indoor Power Cable	New Power Cable for Generator Extension
	12	350 MCM USE		200 FT	Temporary Multiconductor power Cable for connection to Generator 'DG-M1', Outdoor Rated, run in temp conduit or otherwise protected from damage.	For Connection of Temp 300kW Generator
	13	#6 USE		100FT	Temporary Multiconductor power Cable for connection to Generator 'DG-M3', Outdoor Rated, run in temp conduit or otherwise protected from damage.	For Connection of Temp 15kW Generator
	14 15	#12 XHHW		200FT	Run signal interconnect to temporary generator Not Used	For Connection of Temp 300kW Generator
3-#4	16	3" GRS		15 FT	Outdoor Conduit	For MTS-1 and MTS-2 at Wet Well 3
	17	3/0 USE		40 FT	Outdoor Power Cable for Temporary Service	200kW Temp Generator Connection
	18	JBOX		1	18X18" NEMA 1 Cabinet for Extension of Control Cables to New Switchgear	See Drawing E15
	19	Phenolics		Per Dwg	Phenolic Labels with Qty, Color, Size and Text shown on Drawing JLCB-EL-4500 SH 1.	See Drawing E15
	20	MTS-2	EATON, DT363NRK	1	Double Throw Safety Switch. 480VAC, 100A, 3-Pole	See specification section 262816
	21	MTS-1	EATON, DT365URK	1	Double Throw Safety Switch. 600 VAC/DC, 400A, 3-Pole	See specification section 262816
	22 23	3/0 XHHW-2 750 MCM		80 FT	Outdoor Rated Power Conductor	
-	24	XHHW-2 #1 THWN		60 FT	Outdoor Rated Power Conductor Indoor 600V Cable	Building Generator Cable
	24	1/0 Bare		60FT		Extension
45KVA	25	Copper Cable Reducer	GREAVES /	300 FT	Grounding Cable	For 100A MTS-2 connections -
480V	20	4" EMT	CRK30-10	6	Cable Reducer 3/0 to 1/0	cable oversized. Connects to Feed through for
$\begin{vmatrix} A \\ AC - T \end{vmatrix} = \begin{vmatrix} A \\ A \\ A \end{vmatrix}$	27 28	JBOX		5FT	Indoor Conduit 24X24" NEMA 1 Cabinet for Extension of Power cables to future Wells 6 and 7 (Feed Through	Wells 6,7 Feed through for Wells 6,7
	29	1/2" EMT			Only)	Determined by final fire alarm layout
-	30	1" EMT		TBD TBD	Indoor Conduit Indoor Conduit	May re-use existing control routing in Gen room as possible
-	31	FP-1		1	Fire Alarm System per Specs and Drawings	See specification section 283100
2) CONDUIT 3) XHHW M 4) MANUFA 5) SOME S	t fitt 1ay bi acturi 5malle	INGS, BUSHING E USED IN PL ERS AND PAR ER OR SHORT	GS, GROUND ACE OF THH T NUMBERS LENGTHS OF	STRAPS, N IF DES SHOWN CABLE	YING LENGTHS AND QUANTITIES PRIOR TO LUGS, WIRE AND CABLE LABELS NOT SHO SIRABLE TO CONSOLIDATE WIRING. FOR DESIGN BASIS. SUBSTITUTION OF EQU, OMITTED FOR CLARITY (CONSIDERED MINOF ION SEQUENCE DRAWINGS 'E3' TO 'E7'	ORDERING. DWN. Al components allowed

(X) equipment tag where x is the equipment number shown on the equipment list (dwg e2). \bigwedge indicates addendum item

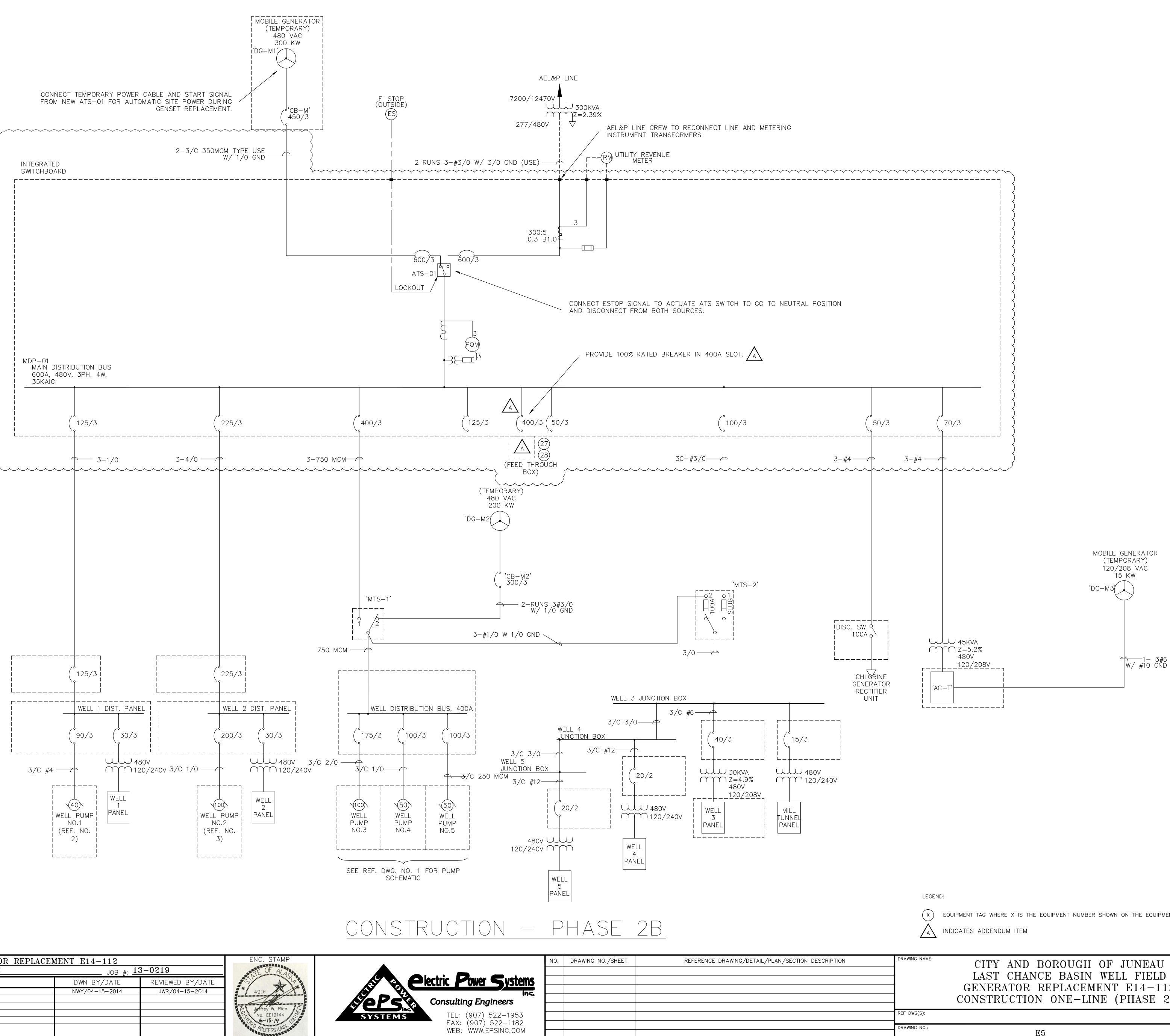
REFERENCE DRAWING/DETAIL/PLAN/SECTION DESCRIPTION	DRAWING NAME: CITY AND BOROUGH
CHANCE BASIN SOURCE IMPROVEMENT ELECTRICAL POWER SINGLE LINE DIAGRAM	LAST CHANCE BASIN
. HOUSE 1 SINGLE LINE DIAGRAM PUMP CONTROL PANEL – SINGLE LINE	
. HOUSE 2 SINGLE LINE DIAGRAM PUMP CONTROL PANEL – SINGLE LINE	GENERATOR REPLACEME
	ONE-LINE DIAGRAM
	REF DWG(S):
	DRAWING NO.:

OF JUNEAU WELL FIELD ENT E14-112 (DESIGN)

E2

e2.dwg

SHEET 7 OF 21



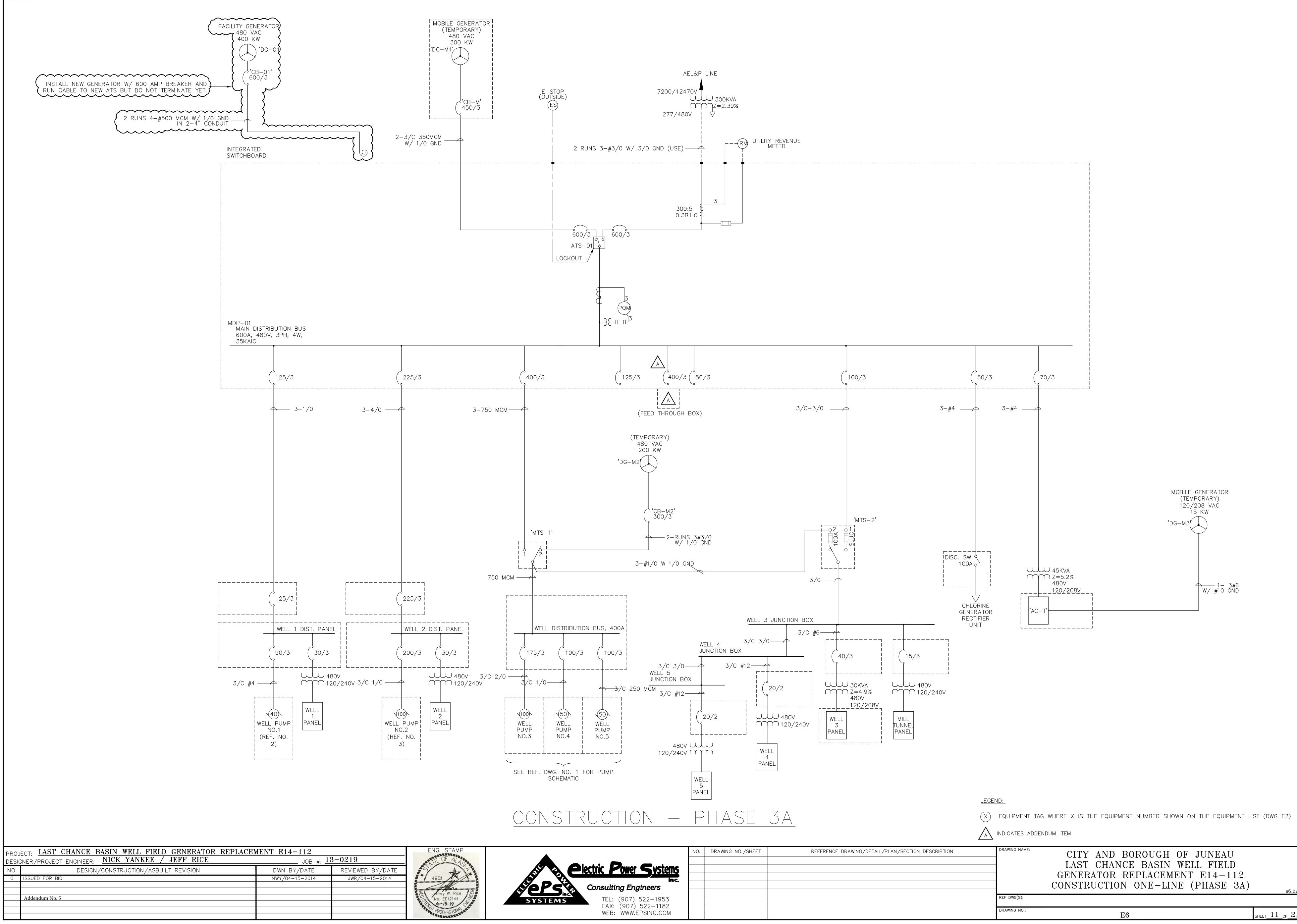
PR	PROJECT: LAST CHANCE BASIN WELL FIELD GENERATOR REPLACEMENT E14-112						
DE	SIGNER/PROJECT ENGINEER: <u>NICK YANKEE / JEFF RICE</u>	JOB #: <u>13-0219</u>					
NC		DWN BY/DATE	REVIEWED BY/DATE				
0	ISSUED FOR BID	NWY/04-15-2014	JWR/04-15-2014				
	Addendum No. 5						

3	LEGEND: (X) Equipment tag where X is the equipment number shown on the equipment Liss A indicates addendum item
REFERENCE DRAWING/DETAIL/PLAN/SECTION DESCRIPTION	DRAWING NAME: CITY AND BOROUGH OF JUNEAU LAST CHANCE BASIN WELL FIELD GENERATOR REPLACEMENT E14-112 CONSTRUCTION ONE-LINE (PHASE 2B)
	REF DWG(S):
	DRAWING NO.: E5

SHEET_	10	_OF	21

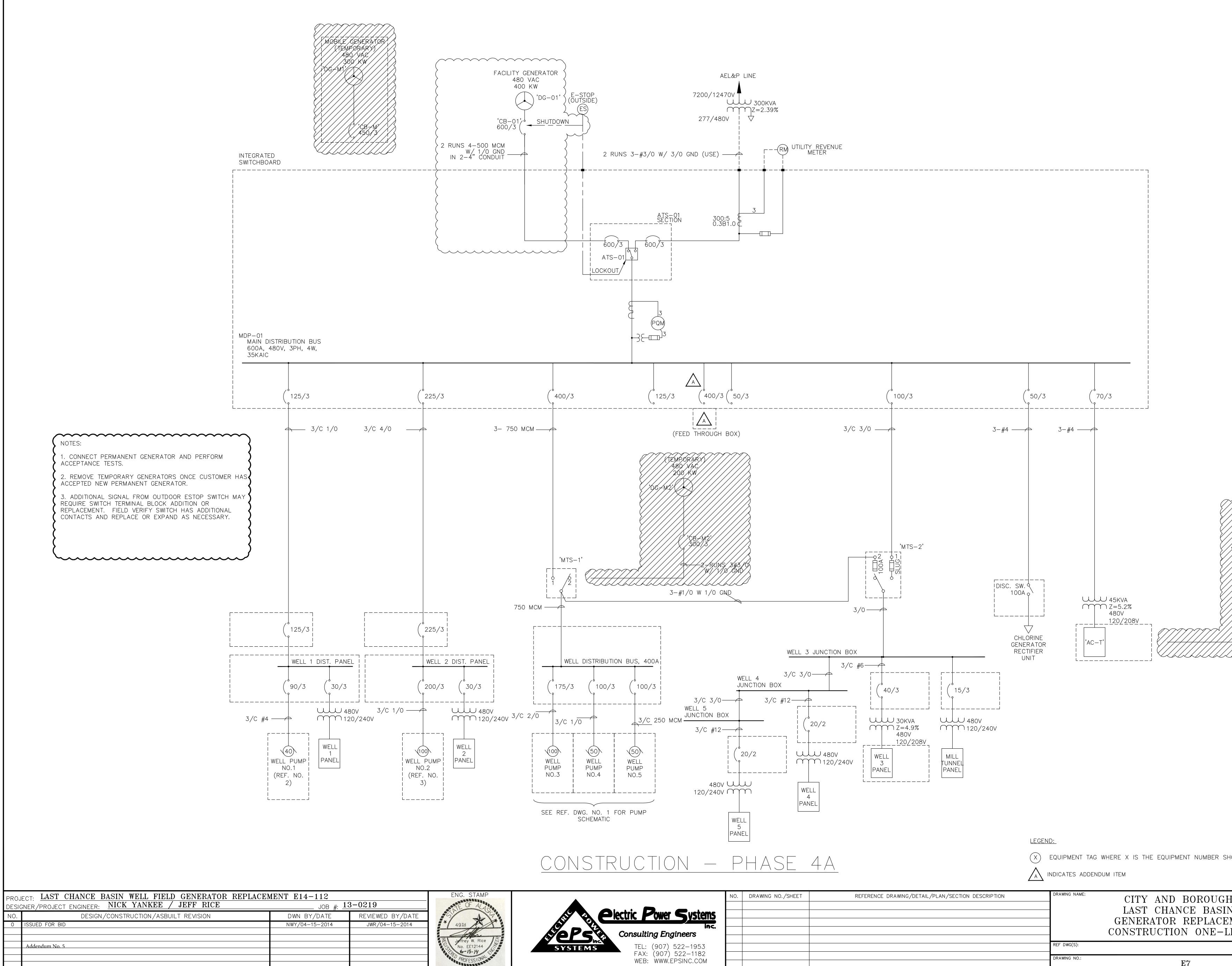
e5.dwg

LIST (DWG E2).





OF JUNEAU WELL FIELD CNT E14-112 E (PHASE 3A)		e6.dwg
	SHEET 11	_of_21

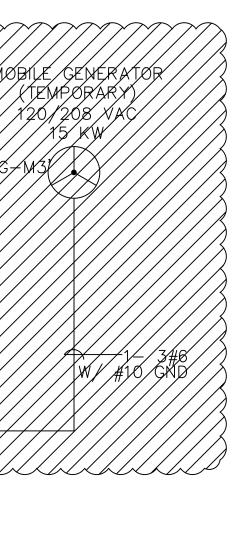


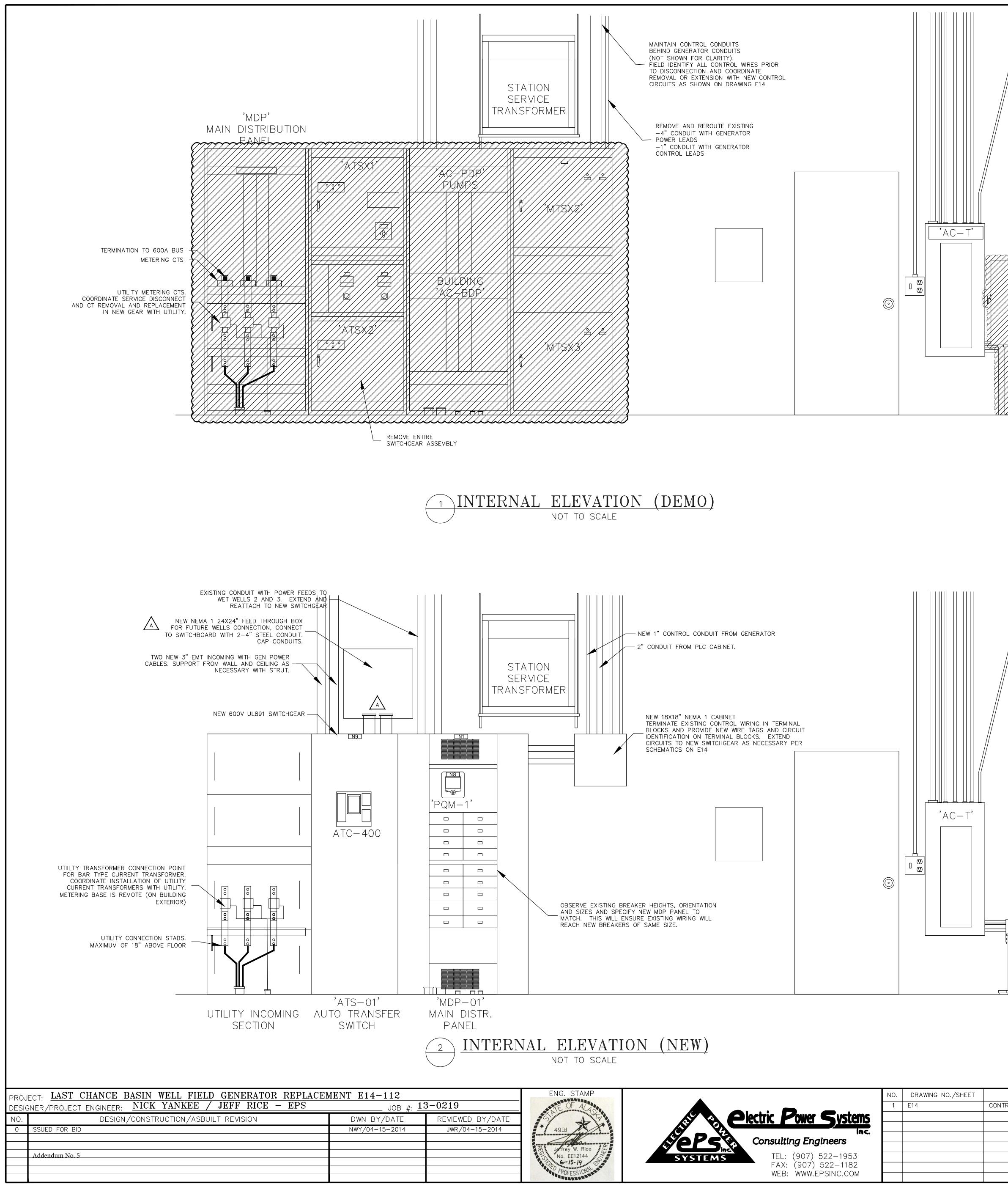
EQUIPMENT TAG WHERE X IS THE EQUIPMENT NUMBER SHOWN ON THE EQUIPMENT LIST (DWG E2). CITY AND BOROUGH OF JUNEAU LAST CHANCE BASIN WELL FIELD GENERATOR REPLACEMENT E14-112 CONSTRUCTION ONE-LINE (PHASE 4A) DRAWING NO .: E7



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e7.dwg





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	PHENOLIC NAMEPLATE LIST					
	ITEM	LETTERING	NAMEPLATE SIZE	LETTER SIZE		
	N1	'MDP' MAIN DIST. PANEL 480V PANEL	1"x 3"	<u>3</u> " 16		
	N2 *	WELL 1 PUMP & PANEL	1"× 3"	<u>3</u> " 16		
	N3 *	WELL 2 PUMP & PANEL	1"× 3"	<u>3</u> " 16		
	N4 *	WELLS 3, 4, 5 PUMPS	1"x 3"	<u>3</u> " 16		
	N5 *	WELLS 3, 4, 5 PANELS	1"x 3"	<u>3</u> " 16		
	N6 *	CHLORINE GENERATOR RECTIFIER	1"x 3"	<u>3</u> " 16		
	N7 *	PANEL 'T' 120/208V	1"x 3"	<u>3</u> " 16		
	N8	'PQM' POWER QUALITY METER (SITE LOAD)	1"x 3"	<u>3</u> " 16		
	N9	'ATS-01' AUTOMATIC TRANSFER SWITCH	1"x 3"	<u>3</u> " 16		
	N10*	PANEL 'T' GEN BUILDING 120/208V	1"x 3"	<u>3</u> " 16		
	N11	(SEE NOTE 1)	AS RQD.	<u>3</u> " 16		
	N12	(SEE NOTE 2)	AS RQD.	<u>3</u> " 16		
7	N13*	WELLS 6,7 PUMPS & PANELS	1"× 3"	<u>3</u> " 16		

*PLACE AT APPROPRIATE BREAKER POSITION IN MDP-01

<u>NOTES:</u>

1. SIGN N11 TO BE WHITE TEXT ON RED BACKGROUND, APPLIED TO ATS-01 AND READ:

WARNING SHOCK HAZARD EXISTS IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE IS ENERGIZED.

2. SIGN N12 TO BE WHITE TEXT ON RED BACKGROUND, APPLIED TO MTS-01 AND READ: WARNING

ON BLACK BACKGROUND.

A indicates addendum item

DRAWING NAME: REFERENCE DRAWING/DETAIL/PLAN/SECTION DESCRIPTION CITY AND BOROUGH OF JUNEAU CONTROL SCHEMATICS LAST CHANCE BASIN WELL FIELD GENERATOR REPLACEMENT E14-112 SWITCHBOARD INTERNAL ELEVATION REF DWG(S): DRAWING NO.: E15

'MTSX1

(DEMO)

FOR CONNECTION OF A SEPARATELY DERIVED (BONDED NEUTRAL) SYSTEM ONLY 3. LABELS WITHOUT SPECIFIC COLOR SHOWN ARE TO BE WHITE TEXT

e15.dwg