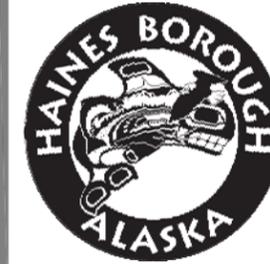


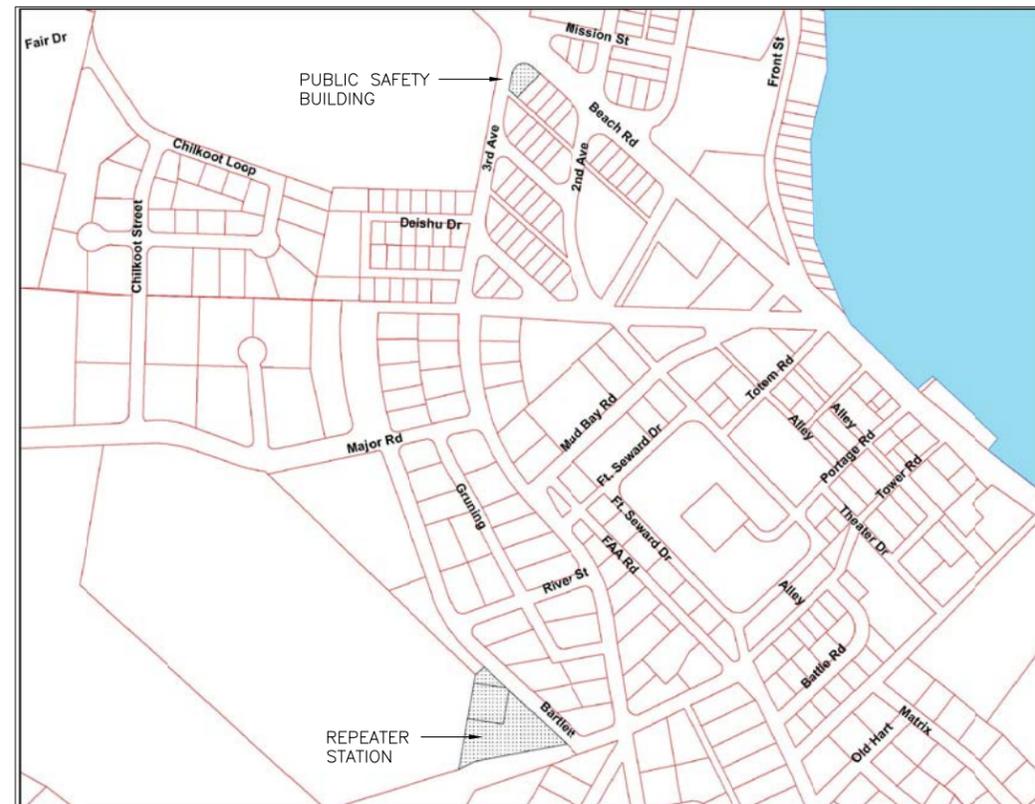
# HAINES BOROUGH

## DISPATCH AND E-911 SYSTEMS REPLACEMENT

Haines, Alaska  
August 2013



217 2nd ST, STE 208, JUNEAU, AK 99801  
PH: (907) 586-5900 / FAX: (907) 586-5901



**VICINITY MAP**

### Drawing List

E001	Legend and Abbreviations
E101	Public Safety Building First Floor Plan
E102	Public Safety Building Second Floor Plan
E201	Public Safety Building Enlarged Plans
E301	Dispatch Demolition Photographs
E302	Dispatch Demolition Photographs
E401	Dispatch Details
E501	Repeater Station Demolition Plan and Photographs
E601	Repeater Station Plan and Details
E701	Repeater Station Details
E702	Repeater Station Details
E801	Schedules

POWER DEVICES	
SYMBOL	DESCRIPTION
	SPECIAL PURPOSE RECEPTACLE
	SIMPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	HALF SHADING INDICATES RECEPTACLE ABOVE COUNTER OR BACKSPASH, SEE ARCHITECTURAL DRAWINGS FOR HEIGHT.
	FLUSH FLOOR DEVICE, DEVICE TYPE PER SYMBOLS LEGEND.
	PEDESTAL FLOOR DEVICE, DEVICE TYPE PER SYMBOLS LEGEND.
	SURFACE RACEWAY WITH DEVICES AS INDICATED. LENGTH AS INDICATED ON THE DRAWINGS.

DISTRIBUTION EQUIPMENT	
SYMBOL	DESCRIPTION
	BRANCH CIRCUIT PANELBOARD
	TRANSFORMER
	SERVICE OR DISTRIBUTION EQUIPMENT
	MOTOR CONNECTION
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	COMBINATION DISCONNECT WITH MAGNETIC MOTOR STARTER OR CONTACTOR
	MAGNETIC MOTOR STARTER OR CONTACTOR
	VARIABLE FREQUENCY DRIVE
	UTILITY METER

WIRING	
SYMBOL	DESCRIPTION
	JUNCTION BOX
	HANDHOLE
	CONDUIT CONCEALED IN CEILING OR WALL
	CONDUIT CONCEALED IN FLOOR OR UNDER SLAB
	HOT CONDUCTOR
	NEUTRAL CONDUCTOR
	GROUND CONDUCTOR
	ISOLATED GROUND CONDUCTOR
	HOMERUN TO INDICATED DESTINATION
	FLEXIBLE CONDUIT CONNECTION

DIAGRAMS	
SYMBOL	DESCRIPTION
	20/1 CIRCUIT BREAKER
	NORMALLY OPEN PUSHBUTTON
	NORMALLY CLOSED PUSHBUTTON
	1 2 3 3-POSITION SELECTOR SWITCH
	1 2 2-POSITION SELECTOR SWITCH
	SWITCH
	OVERLOAD
	NORMALLY OPEN CONTACTS
	NORMALLY CLOSED CONTACTS
	CONTACTOR COIL
	RELAY COIL
	TVSS
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	FUSE
	400AS 250AF FUSED SWITCH, WITH SWITCH AND FUSE RATING
	CONNECTION TO GROUND
	TRANSFORMER

SIGNAL DEVICES	
SYMBOL	DESCRIPTION
	▽2 DATA OUTLET, NUMBER INDICATES QUANTITY OF JACKS.
	▼2 TELEPHONE OUTLET, NUMBER INDICATES QUANTITY OF JACKS.
	◇ ELECTRONIC DOOR LOCK
	◇ INTERCOM STATION

ABBREVIATIONS	
A	AMPERES
AC	ALTERNATING CURRENT
AF	AMPERE-RATED FUSE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
FLA	FULL LOAD AMPERES
G	GROUND
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
KCM	THOUSAND CIRCULAR MILS
KW	KILOWATTS
KVA	KILOVOLT-AMPERES
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPERES
MCB	MAIN CIRCUIT BREAKER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
N	NEUTRAL - GROUNDED CONDUCTOR
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PH	PHASE
PNL	PANELBOARD
TGB	TELECOMM GROUNDING BUSBAR
TMGB	TELECOM MAIN GROUNDING BUSBAR
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UL	UNDERWRITERS LAB
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WP	WEATHERPROOF
XFMR	TRANSFORMER

REFERENCE SYMBOLS	
SYMBOL	DESCRIPTION
	12 SHEET NOTE REFERENCE
	K12 KITCHEN EQUIPMENT TAG
	CH 1 MECHANICAL EQUIPMENT TAG
	1 E201 DETAIL REFERENCE
(E)	EXISTING
(F)	FUTURE
(X)	DEMOLISH
(RL)	RELOCATE

GENERAL NOTES:

- THIS PROJECT REPLACES THE RADIO, DISPATCH AND E-911 SYSTEMS AND PROVIDES INFRASTRUCTURE UPGRADES TO SUPPORT THE NEW TECHNOLOGIES. THE PROJECT INCLUDES ALL WORK SHOWN ON THE DRAWINGS AND OUTLINED IN THE SPECIFICATIONS. ALL EQUIPMENT, CABLES, AND CONNECTIONS SHALL BE NEW, UON.
- THE BOROUGH MAINTAINS A SECOND REPEATER STATION AT APPROXIMATELY 26-MILE, HAINES HIGHWAY. COMMUNICATIONS WITH THE 26-MILE STATION SHALL BE TESTED WITH THE SYSTEM INSTALLED UNDER THIS CONTRACT. REPROGRAMMING, OR OTHER ADJUSTMENTS REQUIRED TO MAINTAIN CONNECTIVITY WITH THE 26-MILE STATION SHALL BE INCLUDED IN THE CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING REVISED RADIO STATION SPECIFICATIONS FOR POLICE, FIRE, AND PUBLIC WORKS WITH THE FEDERAL COMMUNICATIONS COMMISSION, AND OBTAINING CURRENT LICENSES FOR EACH STATION.
- THE EQUIPMENT SCHEDULED ON THE DRAWINGS ARE THE BASIS-OF-DESIGN. COMPARABLE PRODUCTS WILL BE CONSIDERED. COMPLY WITH THE PRODUCT REQUIREMENTS AND SUBMITTAL PROCEDURES IN THE SPECIFICATIONS.



REVISION	DESCRIPTION	DATE



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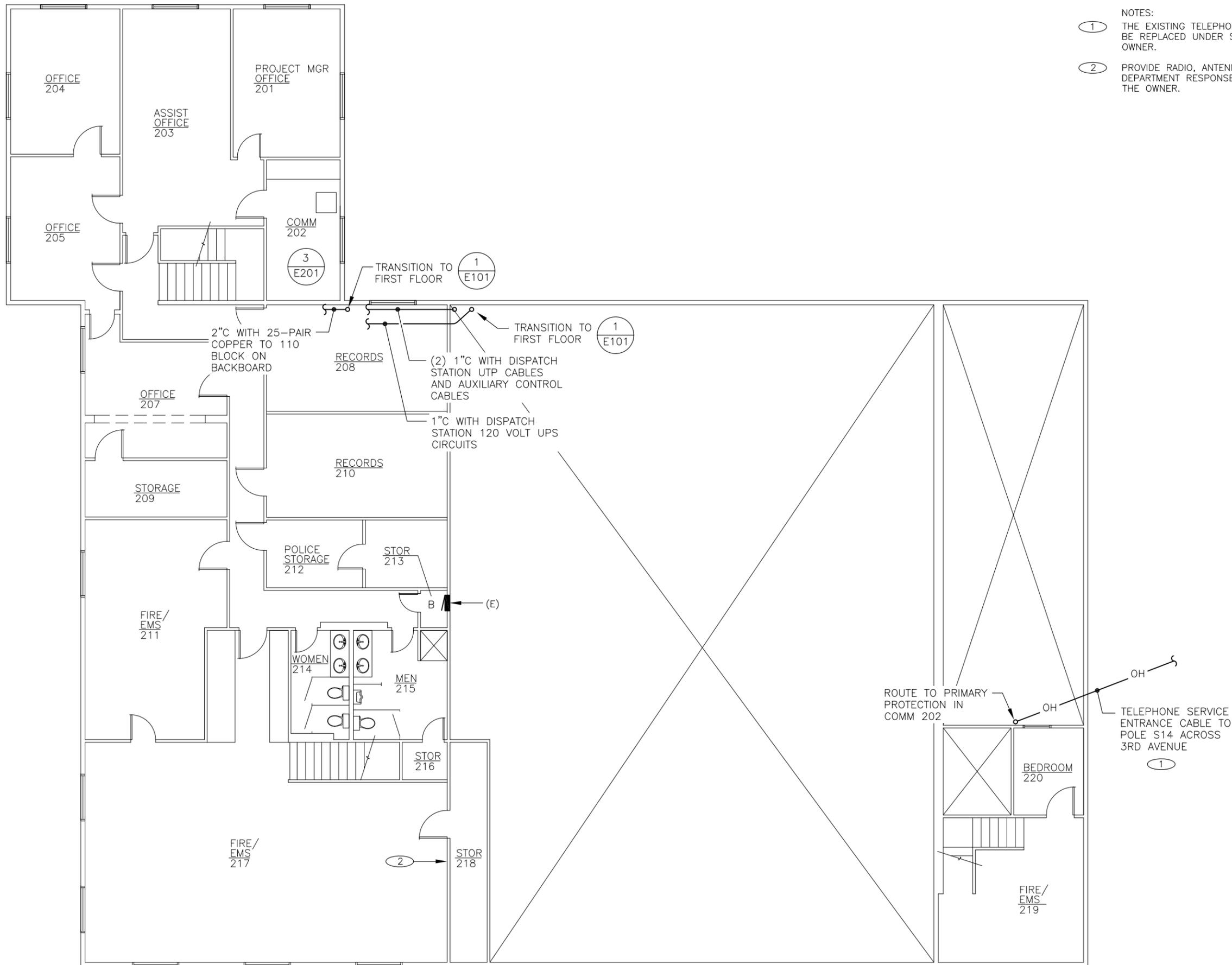


PROJECT  
Dispatch and E-911  
Systems Replacement

SHEET TITLE  
Legend and  
Abbreviations

DRAWING NUMBER	SCALE
E001	
DATE	AUGUST 2013





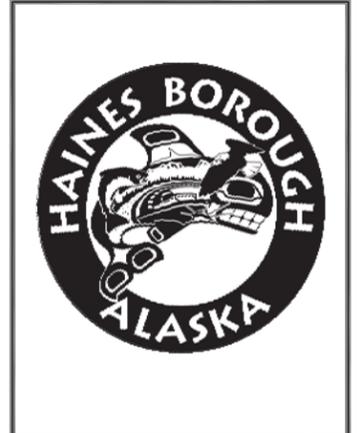
- NOTES:
- ① THE EXISTING TELEPHONE SERVICE ENTRANCE CABLE WILL BE REPLACED UNDER SEPARATE CONTRACT WITH THE OWNER.
  - ② PROVIDE RADIO, ANTENNA, AND ACCESSORIES FOR FIRE DEPARTMENT RESPONSE. COORDINATE INSTALLATION WITH THE OWNER.

**ELECTRONIC**

**SIGNATURE**  
AUGUST 28, 2013

REVISION	DESCRIPTION	DATE

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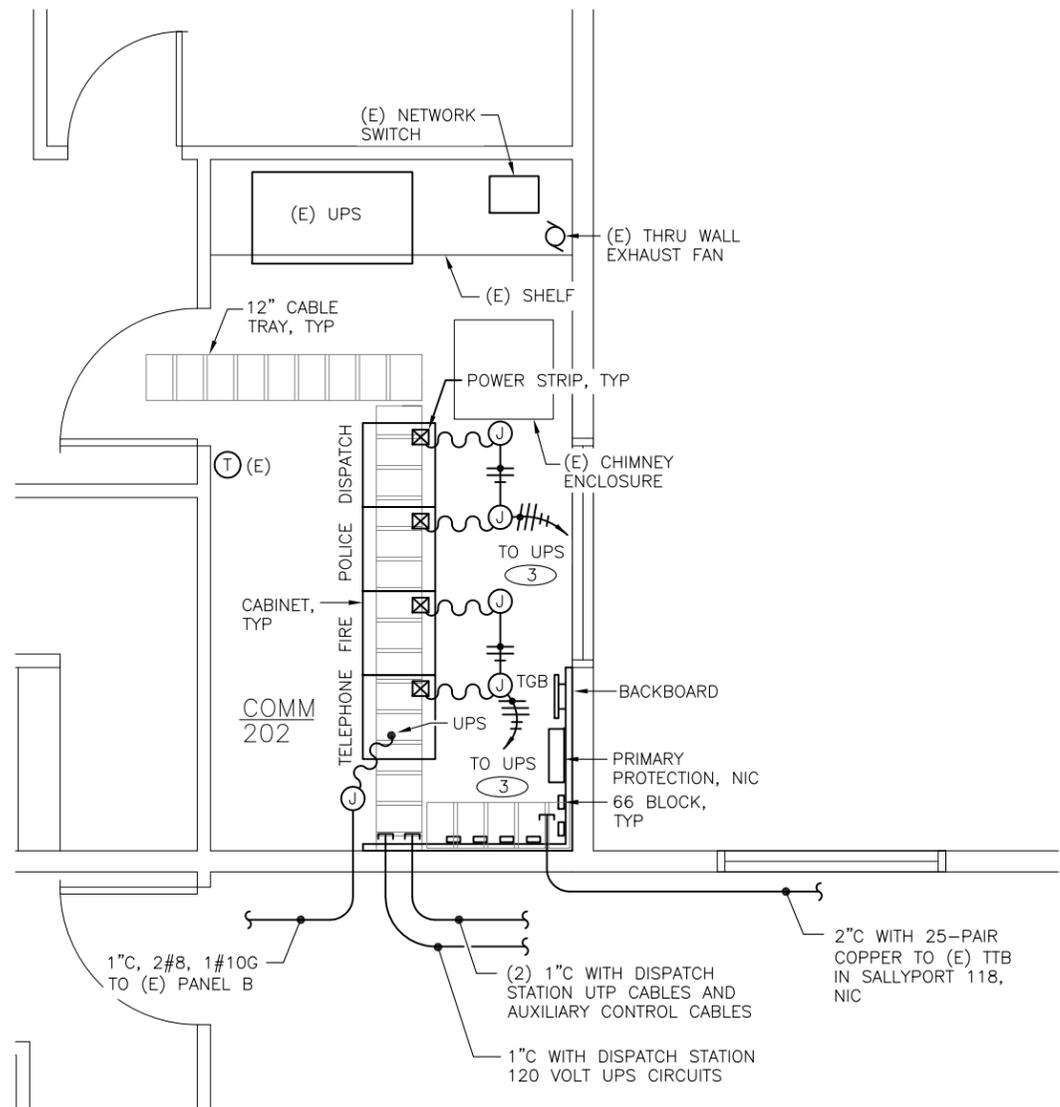
PROJECT  
**Dispatch and E-911  
Systems Replacement**

SHEET TITLE  
**Public Safety Building  
Second Floor Plan**

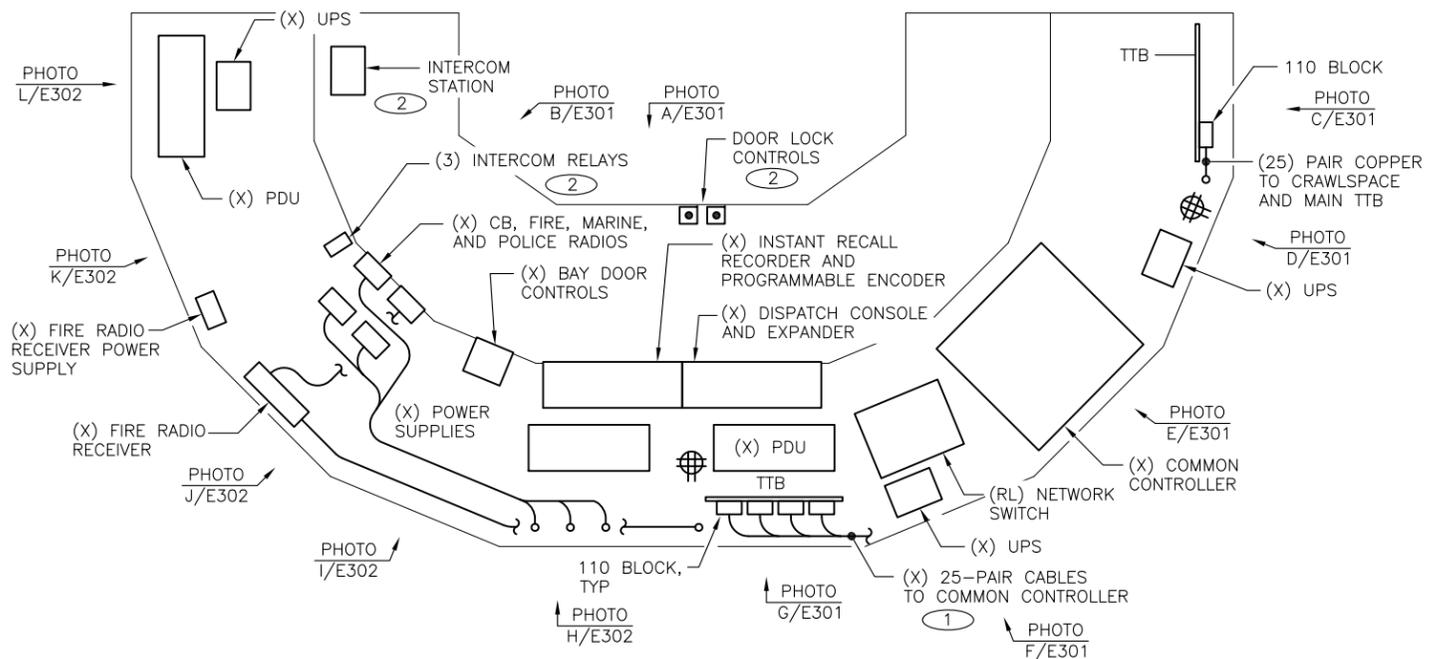
DRAWING NUMBER	SCALE
<b>E102</b>	
DATE	
AUGUST 2013	

① **SECOND FLOOR PLAN**  
SCALE: 3/16" = 1'-0"    SCALE: 0' 2' 4' 8'

- NOTES:
- ① VERIFY ALL PAIRS ARE INACTIVE.
  - ② INTEGRATE DOOR LOCK CONTROLS AND INTERCOM FUNCTIONS INTO NEW DISPATCH SYSTEM.
  - ③ PROVIDE DEDICATED 20 AMP, 120 VOLT CIRCUIT IN CONDUIT TO EACH CABINET. CONNECT TO POWER STRIP.



③ ENLARGED STORAGE 202 PLAN  
SCALE: 1/2" = 1'-0"  
SCALE: 0 1' 2' 4'



① DISPATCH CONSOLE DEMOLITION PLAN  
SCALE: 1" = 1'-0"  
SCALE: 0 6" 1' 2'

ELECTRONIC  
STATE OF ALASKA  
49th  
Barry Egenyi  
Professional Engineer  
No. 10453  
SIGNATURE  
AUGUST 28, 2013

REVISION	DESCRIPTION	DATE

**EGENYI**  
ENGINEERING, LLC  
217 2nd ST., STE 208, JUNEAU, AK 99801  
PH: (907) 586-5900 / FAX: (907) 586-5901



PROJECT  
Dispatch and E-911  
Systems Replacement  
SHEET TITLE  
Public Safety Building  
Enlarged Plans

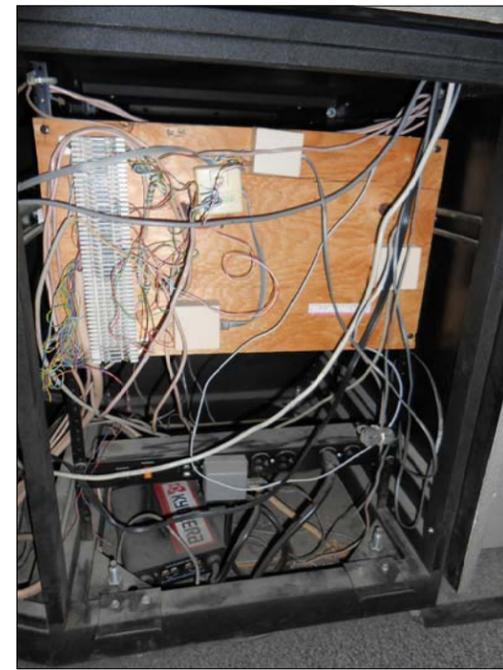
DRAWING NUMBER E201	SCALE DATE AUGUST 2013
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A DISPATCH CONSOLE



B DISPATCH CONSOLE



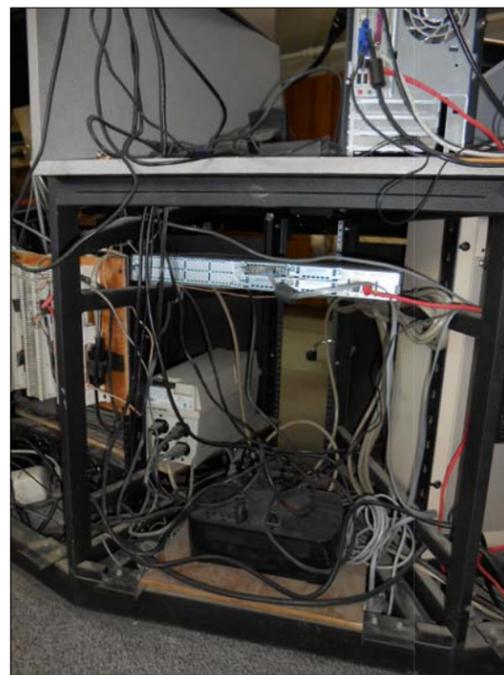
C DISPATCH CONSOLE (BACK)



D DISPATCH CONSOLE (BACK)



E DISPATCH CONSOLE (BACK)



F DISPATCH CONSOLE (BACK)



G DISPATCH CONSOLE (BACK)

ELECTRONIC  
 STATE OF ALASKA  
 49th  
*Barry Egey*  
 Barry Egey  
 EE 10453  
 REGISTERED PROFESSIONAL ENGINEER  
 SIGNATURE  
 AUGUST 28, 2013

REVISION	DESCRIPTION	DATE



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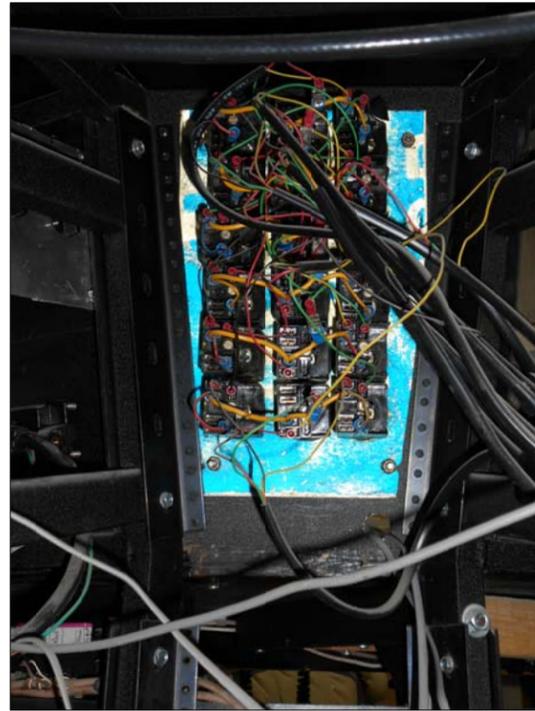
PROJECT  
 Dispatch and E-911  
 Systems Replacement

SHEET TITLE  
 Dispatch Demolition  
 Photographs

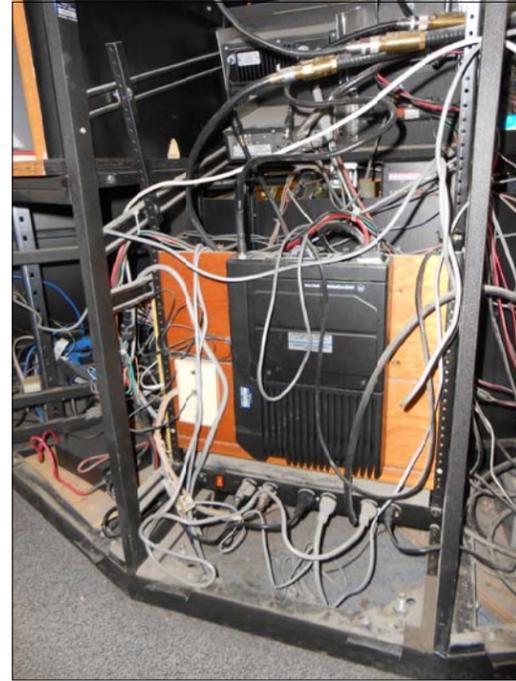
DRAWING NUMBER	SCALE
E301	DATE
	AUGUST 2013



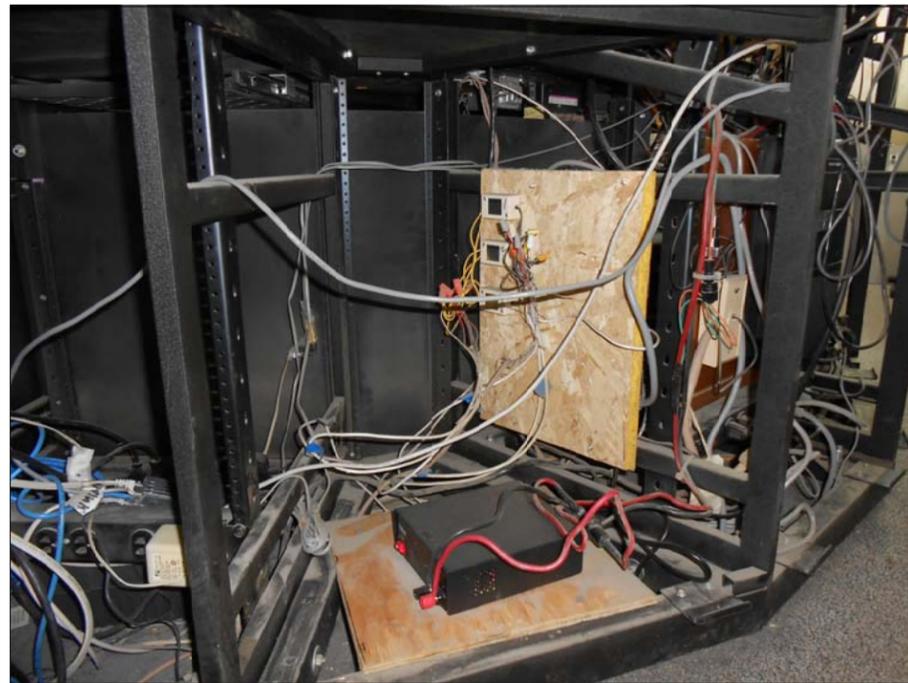
H DISPATCH CONSOLE (BACK)



I DISPATCH CONSOLE (BACK)



J DISPATCH CONSOLE (BACK)



K DISPATCH CONSOLE (BACK)



L DISPATCH CONSOLE (BACK)

ELECTRONIC  
STATE OF ALASKA  
49th  
*Barry Egey*  
Barry Egey  
EE 10453  
REGISTERED PROFESSIONAL ENGINEER  
SIGNATURE  
AUGUST 28, 2013

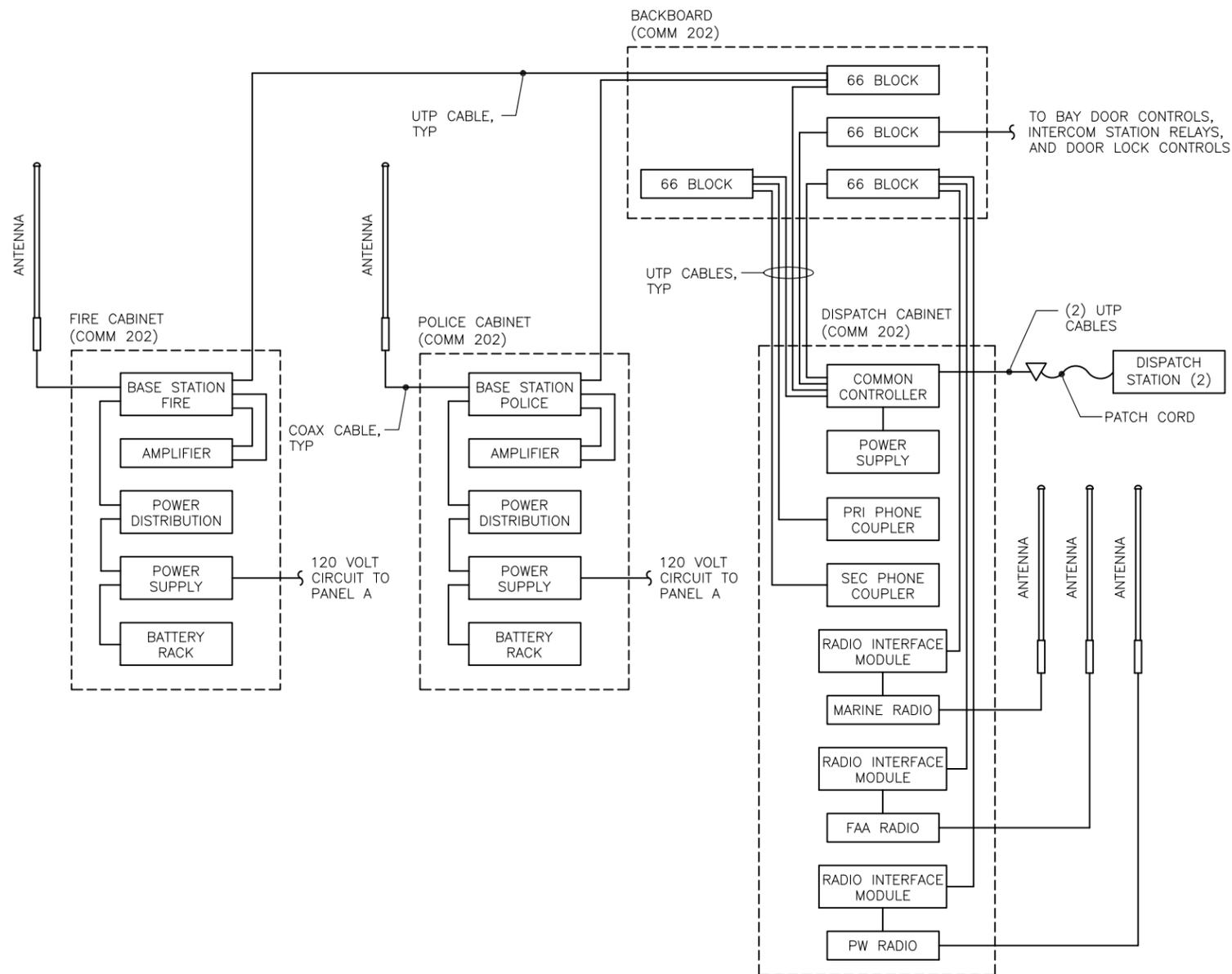
REVISION	DESCRIPTION	DATE

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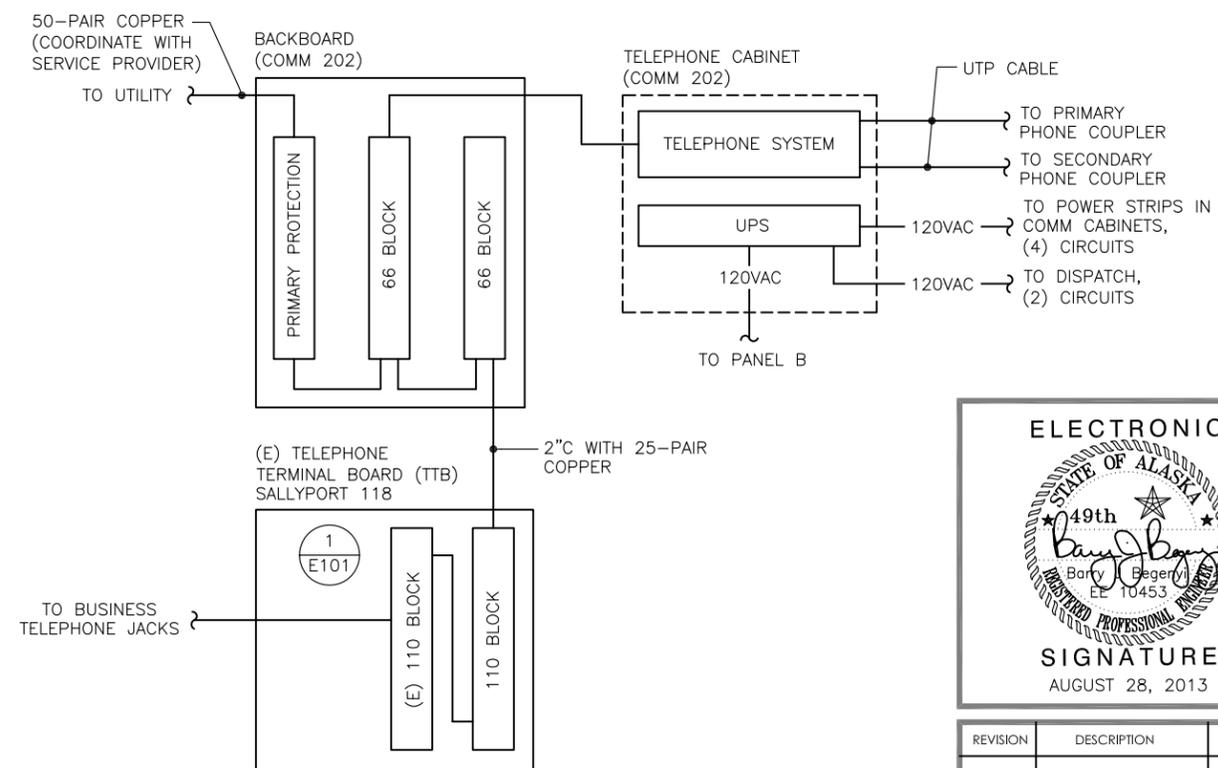
PROJECT  
Dispatch and E-911  
Systems Replacement  
SHEET TITLE  
Dispatch Demolition  
Photographs

DRAWING NUMBER	SCALE
E302	DATE
	AUGUST 2013



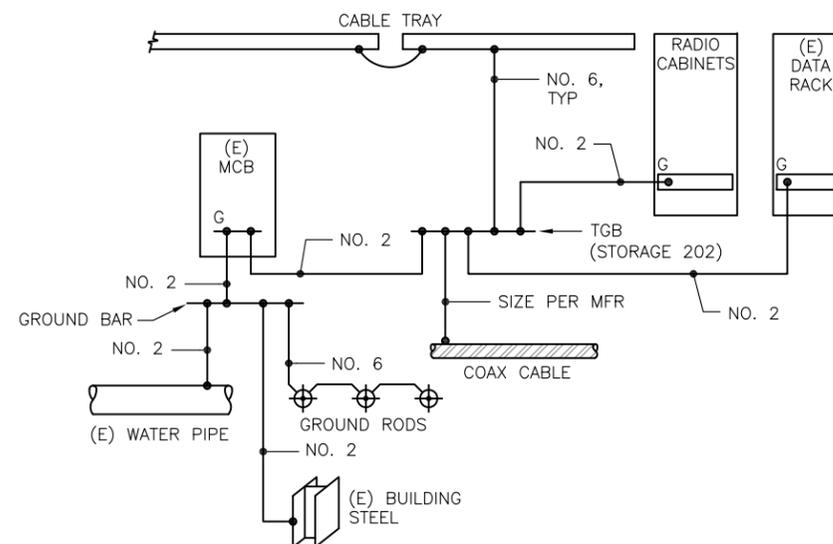
1 DISPATCH AND BASE STATION SINGLE LINE DIAGRAM  
SCALE: NONE

DISPATCH AND BASE STATION EQUIPMENT SCHEDULE			
DESCRIPTION	QTY	MANUFACTURER	MODEL NUMBER
COMMON CONTROLLER	1	ZETRON	4020
DISPATCH STATION	2	ZETRON	4219
BASE STATION POLICE	1	DANIELS ELECTRONICS	MT-4E
BASE STATION FIRE	1	DANIELS ELECTRONICS	MT-4E
AMPLIFIER	2	CRESCEND TECHNOLOGIES	.
COMMON CONTROLLER POWER SUPPLY	1	ZETRON	950-0265
BASE STATION POWER SUPPLY	2	DANIELS ELECTRONICS	PSA-12-40-RB-00
BASE STATION POWER DISTRIBUTION	2	INNOVATIVE CIRCUIT TECHNOLOGY	ICT 180-12I
PHONE COUPLER	2	ZETRON	901-9384
RADIO INTERFACE MODULE	3	.	.
RADIO	3	TAIT COMMUNICATIONS	TM8250
ANTENNA	2	TELEWAVE	ANT150F2
TELEPHONE SYSTEM	1	ZETRON	3200
UPS	1	APC	.



2 TELEPHONE SINGLE LINE DIAGRAM  
SCALE: NONE

- NOTES:
- UPS: 6000VA, 208 VOLT, SINGLE PHASE, INPUT; 120 VOLT OUTPUT. 10-MINUTES OF RUN TIME AT FULL LOAD, RACK MOUNTED, (6) 20 AMP, TWISTLOCK OUTPUT RECEPTACLES. APC SMART-UPS SERIES, OR EQUAL.



3 DISPATCH GROUNDING DIAGRAM  
SCALE: NONE

ELECTRONIC  
STATE OF ALASKA  
49th  
Barry Egerly  
EE 10453  
REGISTERED PROFESSIONAL ENGINEER  
SIGNATURE  
AUGUST 28, 2013

REVISION	DESCRIPTION	DATE



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PROJECT  
Dispatch and E-911  
Systems Replacement

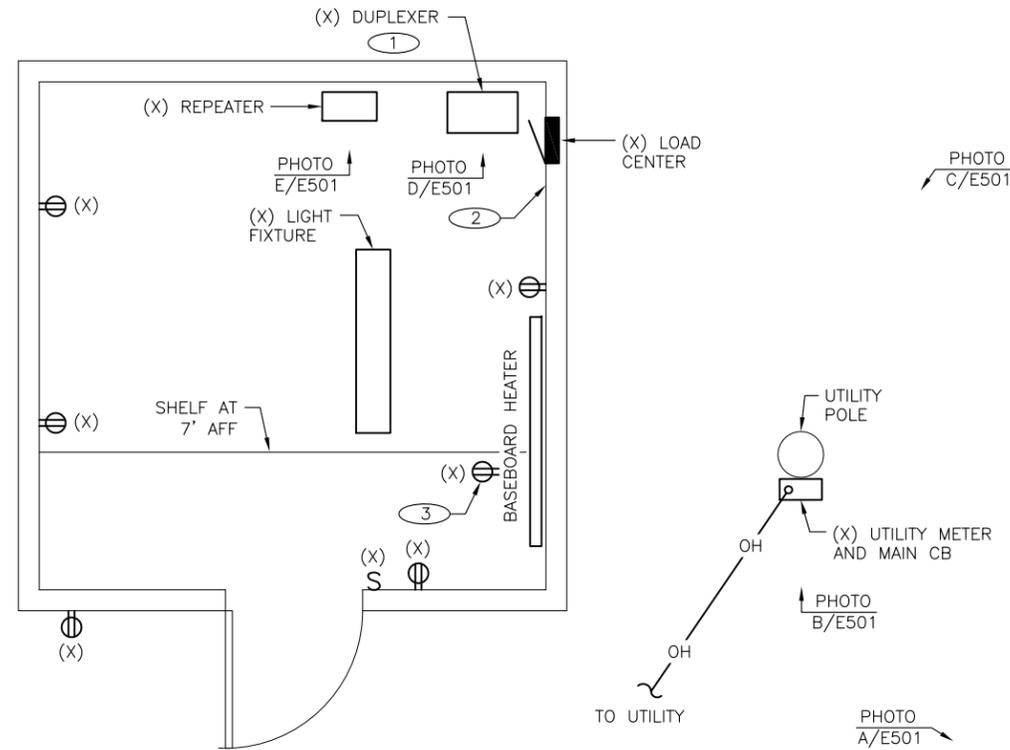
SHEET TITLE  
Dispatch Details

DRAWING NUMBER	SCALE
E401	.
DATE	
AUGUST 2013	

- NOTES:
- ① REMOVE ASSOCIATED ANTENNAS AND COAX CABLES.
  - ② REMOVE ABANDONED (6) PAIR TELEPHONE CABLE ROUTED THRU WALL FROM SHELTER TO UTILITY POLE.
  - ③ REMOVE 12/3 SOW CORD FROM RECEPTACLE TO RADIO STATION SHED.



① TOWER PLATFORM



① REPEATER STATION DEMOLITION PLAN  
SCALE: 1/2" = 1'-0"  
SCALE: 0 1' 2' 4'

ELECTRONIC  
STATE OF ALASKA  
49th  
Barry Egerly  
EL 10453  
REGISTERED PROFESSIONAL ENGINEER  
SIGNATURE  
AUGUST 28, 2013

REVISION	DESCRIPTION	DATE

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PROJECT  
Dispatch and E-911  
Systems Replacement  
SHEET TITLE  
Repeater Station  
Demolition Plan  
and Photographs

DRAWING NUMBER E501	SCALE DATE AUGUST 2013
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② UTILITY METER AND MAIN CB



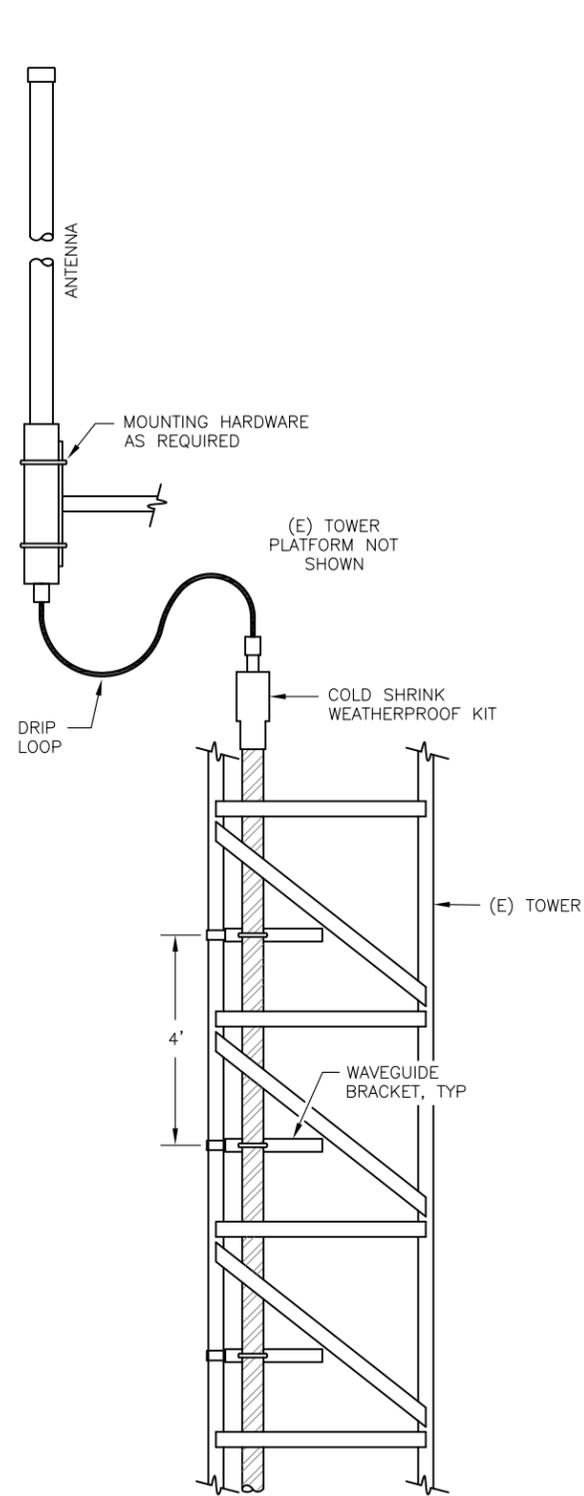
③ SITE LAYOUT



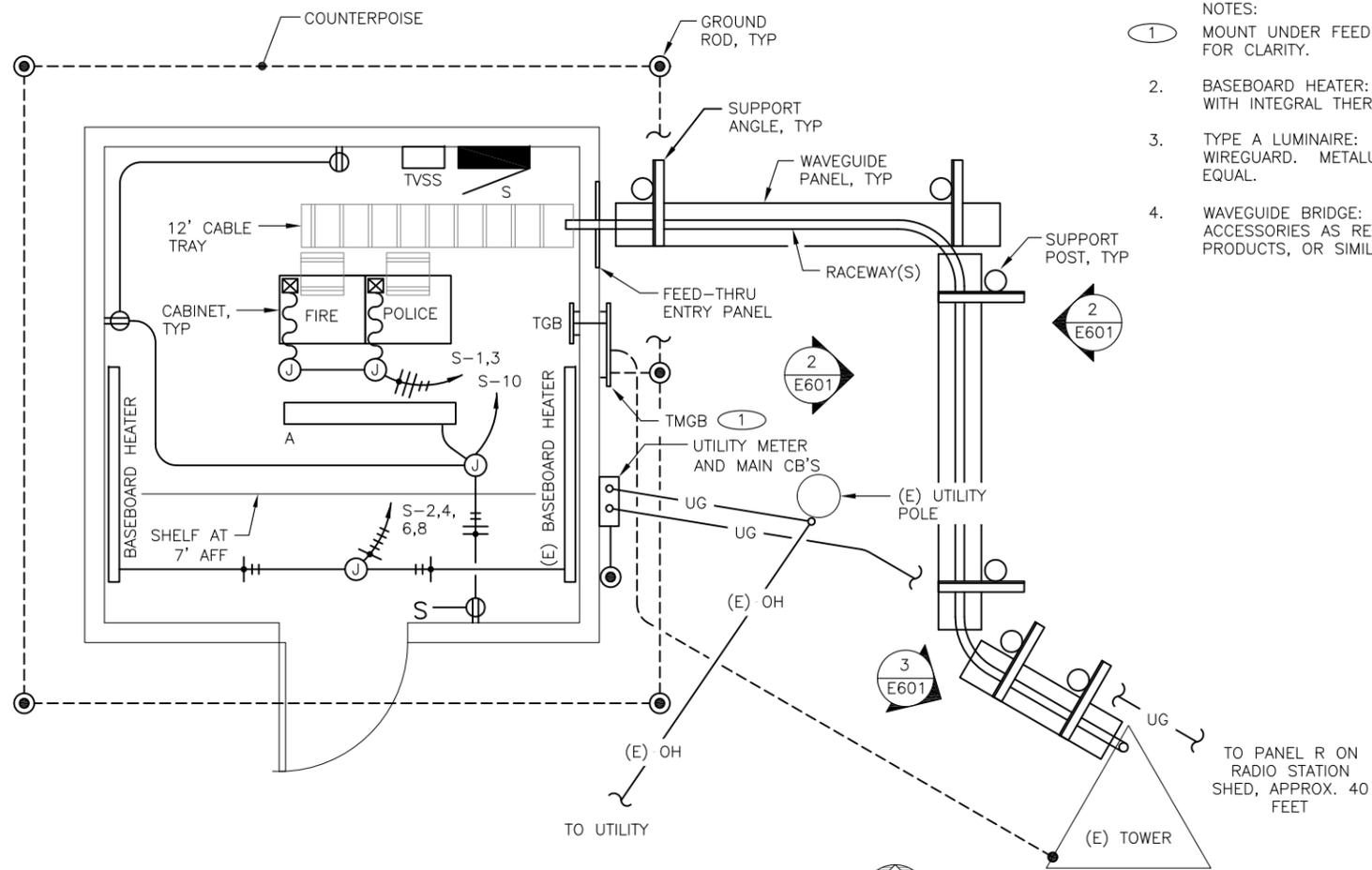
④ DUPLEXER AND REPEATER



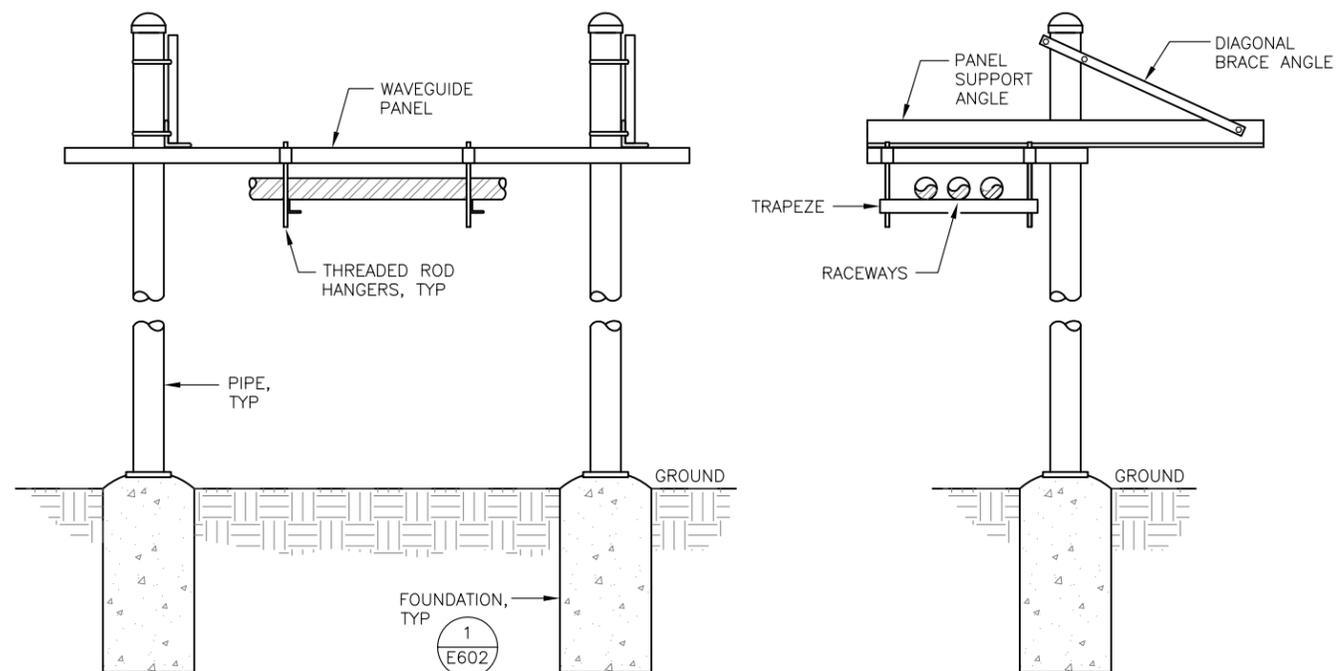
⑤ DUPLEXER AND REPEATER



**3 RACEWAY ROUTING DETAIL**  
SCALE: NTS



**1 REPEATER STATION PLAN**  
SCALE: 1/2" = 1'-0" SCALE: 0 1' 2' 4'



**2 WAVEGUIDE BRIDGE DETAILS**  
SCALE: NTS

- NOTES:
1. MOUNT UNDER FEED-THRU ENTRY PANEL. NOT SHOWN FOR CLARITY.
  2. BASEBOARD HEATER: ELECTRIC HYDRONIC, 1500W, 240V, WITH INTEGRAL THERMOSTAT. QMARK, OR EQUAL.
  3. TYPE A LUMINAIRE: HEAVY DUTY INDUSTRIAL WITH WIREGUARD. METALUX DMF-332-120V-EL-EB81-WG, OR EQUAL.
  4. WAVEGUIDE BRIDGE: HEAVY DUTY, 12" PANEL, WITH ACCESSORIES AS REQUIRED TO SUPPORT RACEWAYS. ROHN PRODUCTS, OR SIMILAR.

**ELECTRONIC**  
STATE OF ALASKA  
49th  
*Barry Egey*  
Barry Egey  
EE 10453  
PROFESSIONAL ENGINEER  
**SIGNATURE**  
AUGUST 28, 2013

REVISION	DESCRIPTION	DATE

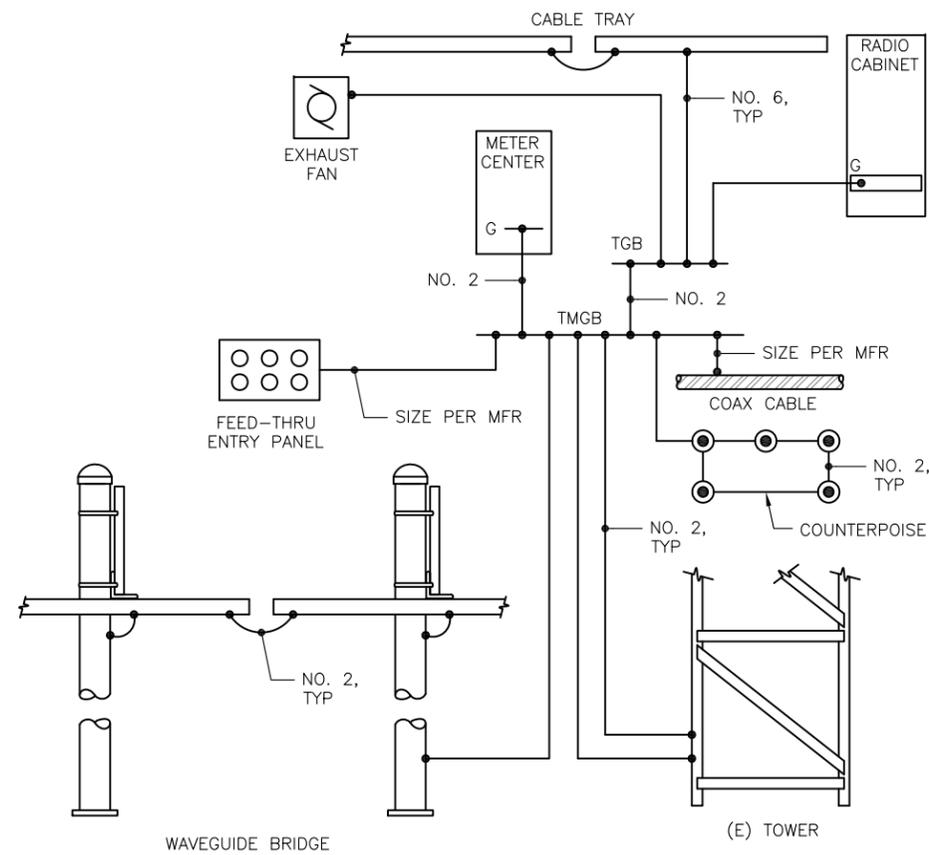
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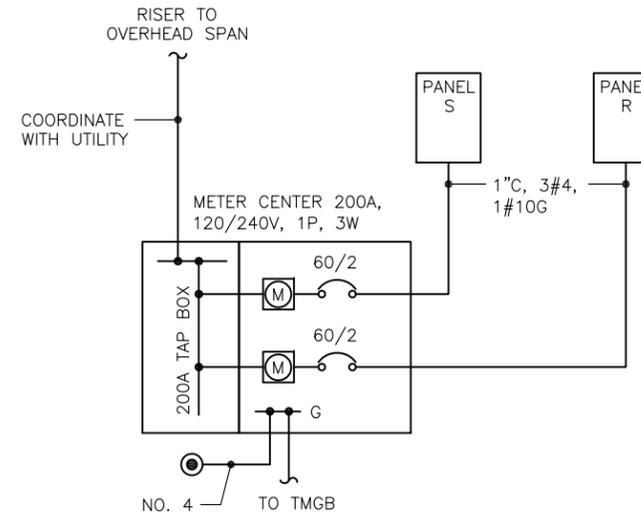
PROJECT  
**Dispatch and E-911  
Systems Replacement**  
SHEET TITLE  
**Repeater Station Plan  
and Details**

DRAWING NUMBER <b>E601</b>	SCALE 
	DATE AUGUST 2013

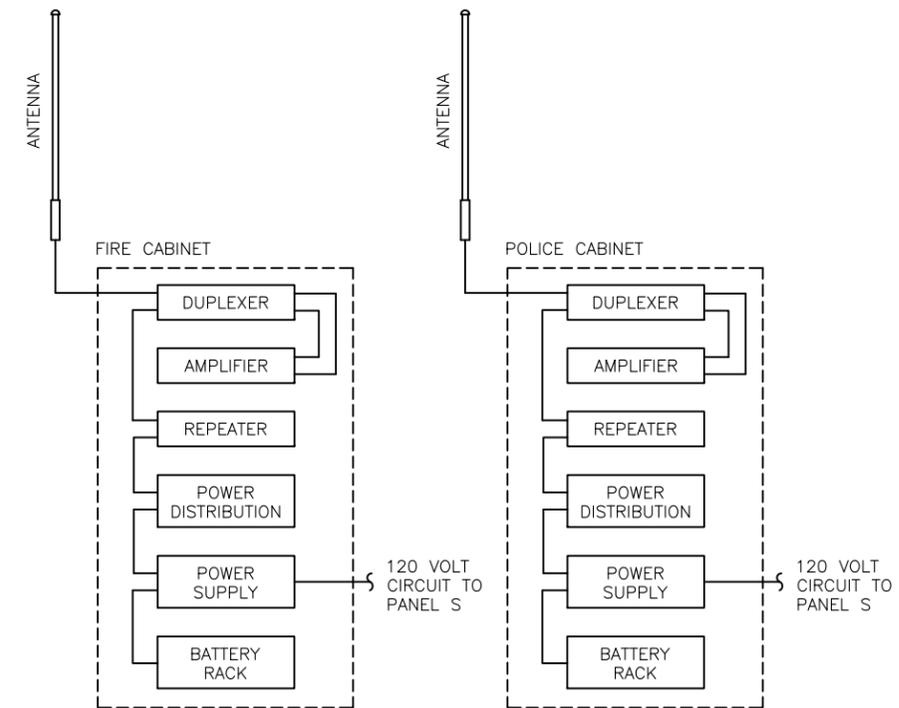
REPEATER STATION EQUIPMENT SCHEDULE			
DESCRIPTION	QTY	MANUFACTURER	MODEL NUMBER
REPEATER/DUPLEXER	2	DANIELS ELECTRONICS	MT-4E
AMPLIFIER	2	CRESCEND TECHNOLOGIES	.
POWER SUPPLY	2	DANIELS ELECTRONICS	PSA-12-40-RB-00
POWER DISTRIBUTION	2	INNOVATIVE CIRCUIT TECHNOLOGY	ICT 180-12I
ANTENNA	2	TELEWAVE	ANT150F2



2 REPEATER STATION GROUNDING DIAGRAM  
SCALE: NONE



1 REPEATER STATION SINGLE LINE DIAGRAM  
SCALE: NONE

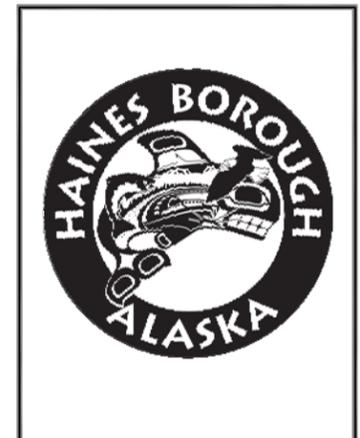


3 REPEATER STATION SINGLE LINE DIAGRAM  
SCALE: NONE

- NOTES:
- PROGRAM AUTOMATIC SIREN AND WARBLE TEST. COORDINATE SCHEDULE WITH OWNER.
  - MOUNT PANEL R ON EXTERIOR OF RADIO STATION SHED. COORDINATE EXACT PLACEMENT WITH THE OWNER.



REVISION	DESCRIPTION	DATE



PROJECT  
Dispatch and E-911  
Systems Replacement  
SHEET TITLE  
Repeater Station Details

DRAWING NUMBER E701	SCALE DATE AUGUST 2013
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STRUCTURAL GENERAL NOTES

1.0 CRITERIA:

1.1 CODE: 2009 EDITION OF THE INTERNATIONAL BUILDING CODE AS AMENDED BY THE STATE OF ALASKA AND THE HAINES BOROUGH

1.2 LOADS:

SNOW  
 GROUND SNOW LOAD,  $p_g = 110$  PSF  
 EXPOSURE COEFFICIENT,  $C_e = 1.0$   
 THERMAL COEFFICIENT,  $C_t = 1.2$  - UNHEATED  
 IMPORTANCE,  $I_s = 1.2$   
 SNOW LOAD ON HORIZONTAL PROJECTION 110 PSF

SEISMIC  
 SITE CLASS D  
 IMPORTANCE,  $I = 1.5$   
 $S_s = 0.30g$ ;  $F_a = 1.56$ ;  $S_{ds} = 0.31g$   
 $S_1 = 0.15g$ ;  $F_v = 2.19$ ;  $S_{d1} = 0.22g$   
 $R = 1.5$  CANTILEVERED COLUMN, ORDINARY STEEL  
 $C_s = 0.31g$  WITH 20 PERCENT OF SNOW LOAD ACTING WITH DEAD LOAD

ALLOWABLE LATERAL SOIL BEARING: 250 PSF  
 (BASED ON THE ANTICIPATION OF ENCOUNTERING TYPE 3 SOILS (SANDY GRAVEL OR GRAVEL) AS DEFINED BY TABLE 1804.2 IN THE INTERNATIONAL BUILDING CODE.)

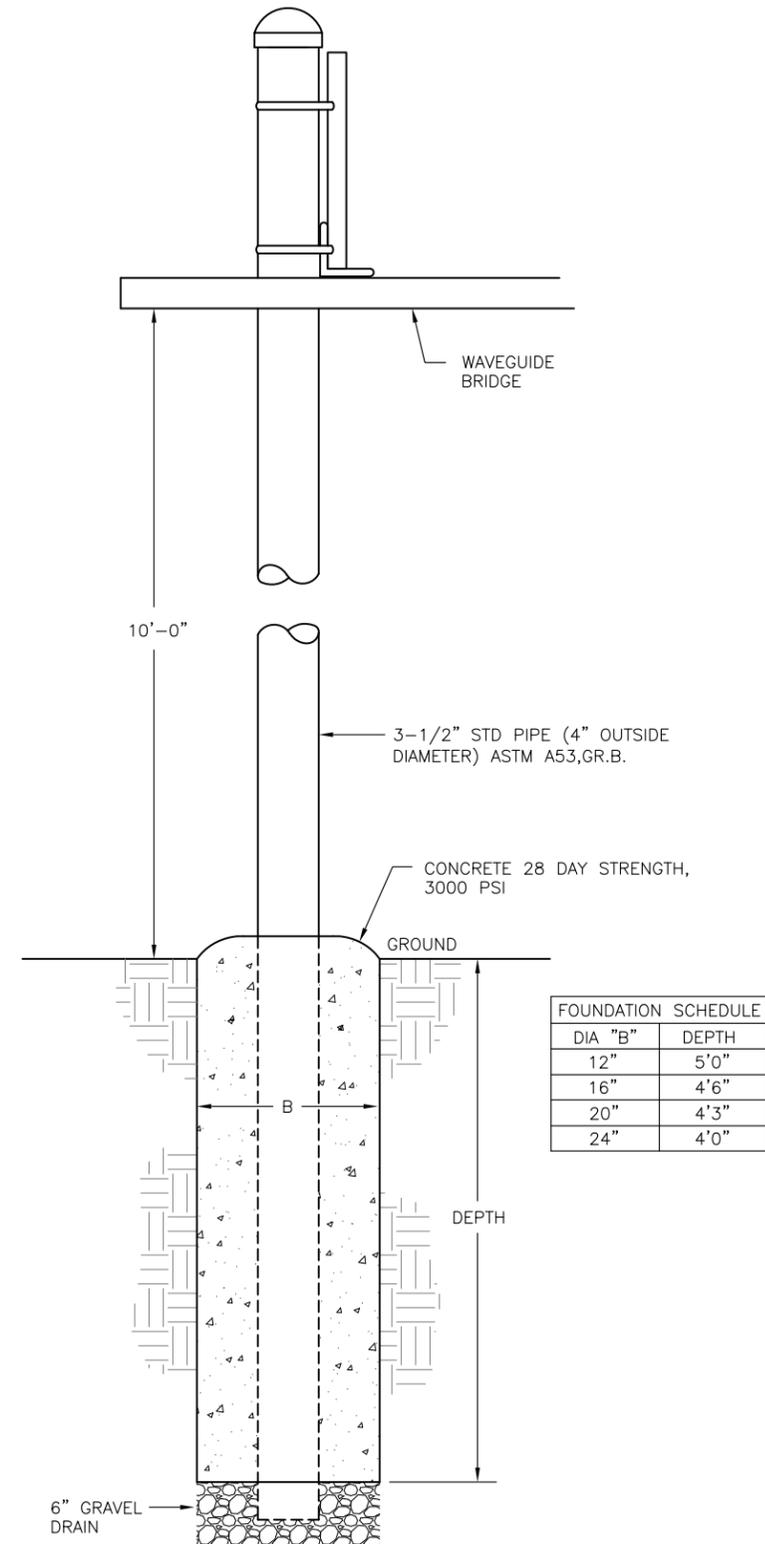
2.0 EARTHWORK

EXCAVATE IN ACCORDANCE WITH OSHA AND ALASKA STATE LABOR REGULATIONS.

INSPECT CONDITIONS AT THE LIMIT OF EXCAVATION. IF A FIRM MINERAL BEARING STRATA IS NOT ENCOUNTERED, NOTIFY THE ENGINEER

3.0 CONCRETE: CONCRETE SHALL BE A DENSE WORKABLE MIX THAT CAN BE PLACED WITHOUT EXCESS SURFACE WATER. THE 28-DAY COMPRESSIVE STRENGTH SHALL BE 3,000 PSI AND AIR ENTRAINED BETWEEN 5 TO 8 PERCENT. MAXIMUM AGGREGATE SIZE SHALL BE 3/4 INCHES.

WHEN AIR TEMPERATURE IS ANTICIPATED TO BE BELOW 40 DEGREES F, FOLLOW COLD WEATHER CONCRETE PROTECTION MEASURES SUCH AS COVERING WITH VISQUEEN OR WITH INSULATION BLANKETS AND IF NECESSARY APPLYING HEAT. ENSURE CONCRETE IS PROTECTED FROM FREEZING UNTIL CONCRETE HAS REACHED 75% OF SPECIFIED 28-DAY COMPRESSION STRENGTH.



1 FOUNDATION DETAIL  
 SCALE: NTS

ELECTRONIC

SIGNATURE  
 AUGUST 28, 2013

REVISION	DESCRIPTION	DATE

EGENYI  
 ENGINEERING, LLC

217 2nd ST., STE 208, JUNEAU, AK 99801  
 PH: (907) 586-5900 / FAX: (907) 586-5901



PROJECT  
 Dispatch and E-911  
 Systems Replacement

SHEET TITLE  
 Repeater Station Details

DRAWING NUMBER	SCALE
E702	

DATE
AUGUST 2013

PANEL B (E)

POLE NO.	LOAD SERVED	LOAD			CB	PH	CB	LOAD			LOAD SERVED	POLE NO.
		TYPE	HP	KVA				TYPE	HP	KVA		
1	EXISTING LOAD	.	.	.	20/1	A	20/1	.	.	.	EXISTING LOAD	2
3	EXISTING LOAD	.	.	.	20/1	B	20/1	.	.	.	EXISTING LOAD	4
5	EXISTING LOAD	.	.	.	20/1	A	50/2	.	.	.	EXISTING LOAD	6
7	EXISTING LOAD	.	.	.	20/1	B	--	.	.	.	EXISTING LOAD	8
9	EXISTING LOAD	.	.	.	20/1	A	20/1	.	.	.	EXISTING LOAD	10
11	EXISTING LOAD	.	.	.	20/1	B	20/1	.	.	.	EXISTING LOAD	12
13	EXISTING LOAD	.	.	.	20/1	A	20/1	.	.	.	EXISTING LOAD	14
15	EXISTING LOAD	.	.	.	20/1	B		.	.	.	SPACE	16
17	EXISTING LOAD	.	.	.	100/2	A		.	.	.	SPACE	18
19	EXISTING LOAD	.	.	.	--	B		.	.	.	SPACE	20
21	SPACE	.	.	.		A		.	.	.	SPACE	22
23	SPACE	.	.	.		B		.	.	.	SPACE	24
25	SPACE	.	.	.		A		.	.	.	SPACE	26
27	SPACE	.	.	.		B	40/2	.	.	.	UPS (2)	28
29	SPACE	.	.	.		A	--	.	.	.	--	30

VOLTAGE: 120/208V, 1PH, 3W	<b>LOAD SUMMARY</b>	<b>CONNECTED LOAD (KVA)</b>	<b>DEMAND FACTOR</b>	<b>DEMAND KVA</b>	<b>DEMAND AMPS</b>	NOTES: 1. PANEL IS MANUFACTURED BY CUTLER HAMMER. 2. PROVIDE NEW CB.
AIC RATING: 10,000	(L) LIGHTING	.	125% OF LOAD	.	.	
MOUNTING: SURFACE	(R) RECEPTACLE	.	NEC 220-13	.	.	
MAIN: 200/2	(M) MOTOR	.	NEC 430-24	.	.	
BUS: 200A	(C) CONTINUOUS	.	125% OF LOAD	.	.	
	(N) NON-CONTINUOUS	.	100% OF LOAD	.	.	
	(K) KITCHEN	.	NEC 220-20	.	.	
	TOTAL	.		.	.	
	WITH 25% SPARE	.		.	.	

PANEL R

POLE NO.	LOAD SERVED	LOAD			CB	PH	CB	LOAD			LOAD SERVED	POLE NO.
		TYPE	HP	KVA				TYPE	HP	KVA		
1	SPARE	.	.	.	20/1	A	20/1	.	.	.	SPARE	2
3	SPARE	.	.	.	20/1	B	20/1	.	.	.	SPARE	4
5	SPARE	.	.	.	20/1	A	20/1	.	.	.	SPARE	6
7	SPARE	.	.	.	20/1	B	20/1	.	.	.	SPARE	8
9	SPARE	.	.	.	20/1	A	20/1	.	.	.	SPARE	10
11	SPARE	.	.	.	20/1	B	20/1	.	.	.	SPARE	12

VOLTAGE: 120/240V, 1PH, 3W	<b>LOAD SUMMARY</b>	<b>CONNECTED LOAD (KVA)</b>	<b>DEMAND FACTOR</b>	<b>DEMAND KVA</b>	<b>DEMAND AMPS</b>	NOTES: 1. PROVIDE NEMA 3R ENCLOSURE.
AIC RATING: 10,000	(L) LIGHTING	.	125% OF LOAD	.	.	
MOUNTING: SURFACE	(R) RECEPTACLE	.	NEC 220-13	.	.	
MAIN: 60/2	(M) MOTOR	.	NEC 430-24	.	.	
BUS: 60A	(C) CONTINUOUS	.	125% OF LOAD	.	.	
	(N) NON-CONTINUOUS	.	100% OF LOAD	.	.	
	(K) KITCHEN	.	NEC 220-20	.	.	
	TOTAL	.		.	.	
	WITH 25% SPARE	.		.	.	

PANEL S

POLE NO.	LOAD SERVED	LOAD			CB	PH	CB	LOAD			LOAD SERVED	POLE NO.
		TYPE	HP	KVA				TYPE	HP	KVA		
1	FIRE CABINET	.	.	.	20/1	A	20/1	.	.	.	BASEBOARD HEATER	2
3	POLICE CABINET	.	.	.	20/1	B	20/1	.	.	.	----	4
5	SPARE	.	.	.	20/1	A	20/1	.	.	.	BASEBOARD HEATER	6
7	SPARE	.	.	.	20/1	B	20/1	.	.	.	----	8
9	TVSS (1)	.	.	.	30/2	A	20/1	.	.	.	LIGHTING AND RECEPTACLES	10
11	----	.	.	.	--	B	20/1	.	.	.	SPARE	12

VOLTAGE: 120/240V, 1PH, 3W	<b>LOAD SUMMARY</b>	<b>CONNECTED LOAD (KVA)</b>	<b>DEMAND FACTOR</b>	<b>DEMAND KVA</b>	<b>DEMAND AMPS</b>	NOTES: 1. COORDINATE OVERCURRENT PROTECTION WITH SUPPLIER.
AIC RATING: 10,000	(L) LIGHTING	.	125% OF LOAD	.	.	
MOUNTING: SURFACE	(R) RECEPTACLE	.	NEC 220-13	.	.	
MAIN: 60/2	(M) MOTOR	.	NEC 430-24	.	.	
BUS: 60A	(C) CONTINUOUS	.	125% OF LOAD	.	.	
	(N) NON-CONTINUOUS	.	100% OF LOAD	.	.	
	(K) KITCHEN	.	NEC 220-20	.	.	
	TOTAL	.		.	.	
	WITH 25% SPARE	.		.	.	



REVISION	DESCRIPTION	DATE



PROJECT  
 Dispatch and E-911  
 Systems Replacement

SHEET TITLE  
 Schedules

DRAWING NUMBER	SCALE
E801	None
DATE	AUGUST 2013