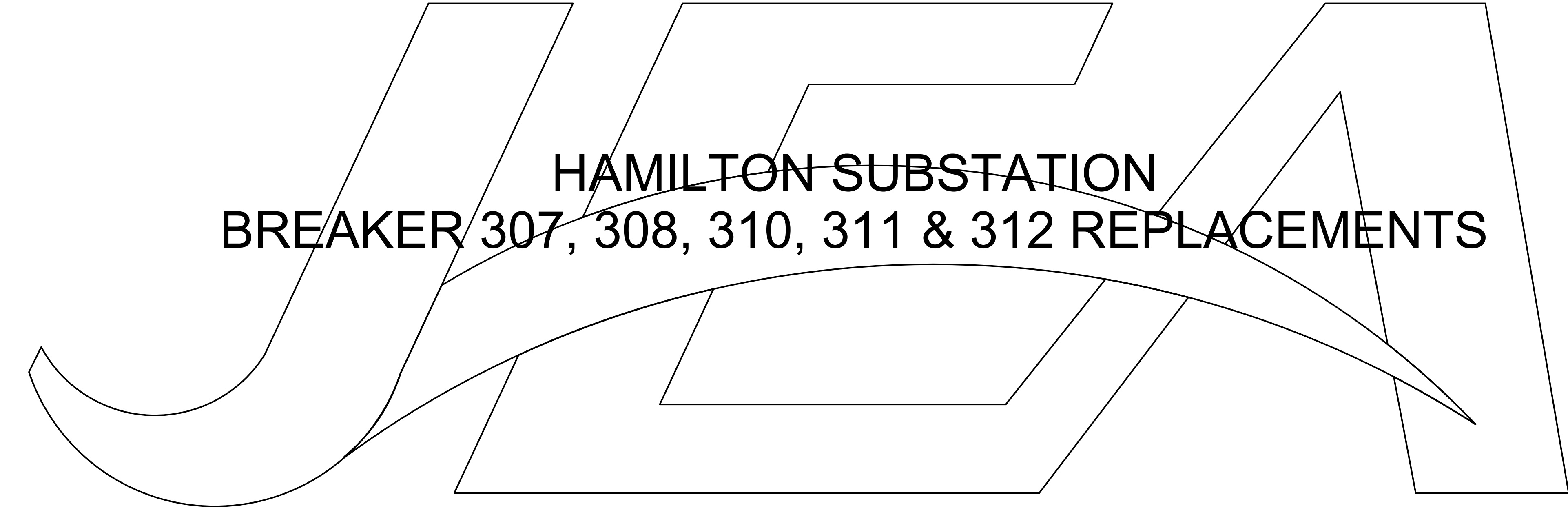


**VICINITY MAP**  
N.T.S.

LOCATION: 4534 SHIRLEY AVENUE, JACKSONVILLE, FL 32210

**BID DRAWINGS**  
**FOR THE**  
**HAMILTON SUBSTATION**  
**BREAKER 307, 308, 310, 311 & 312 REPLACEMENTS**




*BUILDING COMMUNITY*

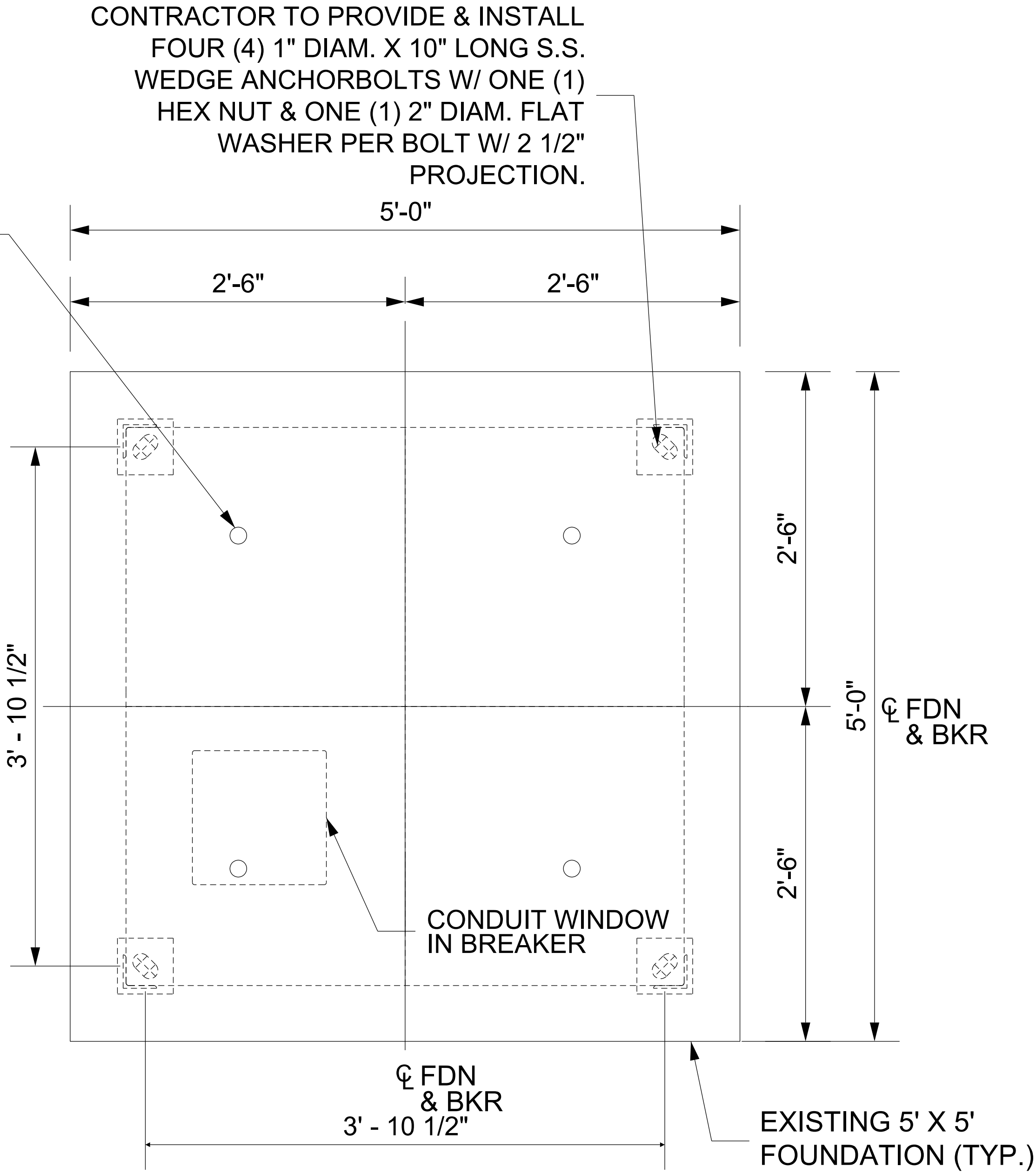
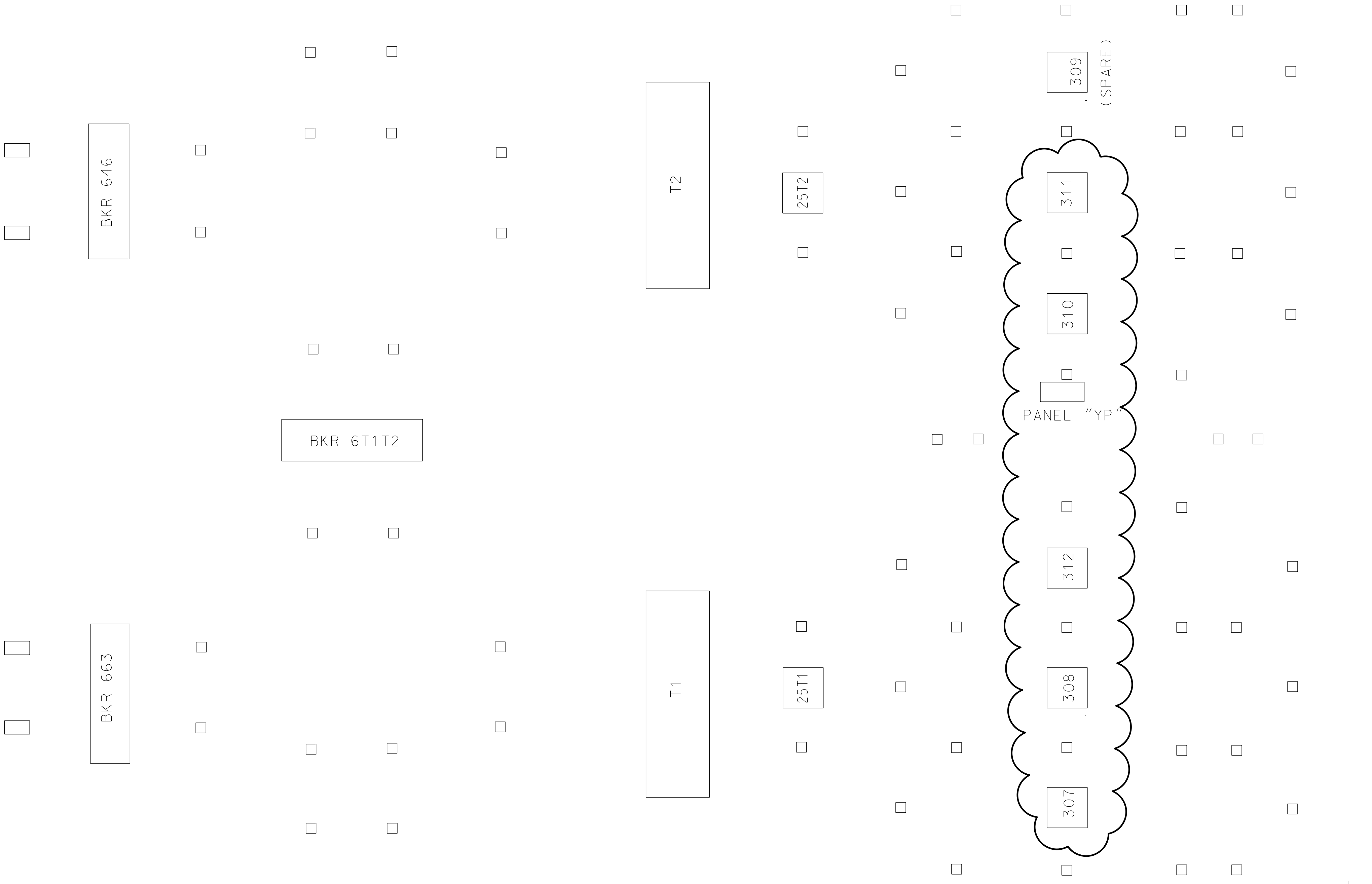


**SUBSTATION & TRANSMISSION PROJECTS 20410**  
**PROJECT # 8005239**

INDEX TO DRAWINGS			
DWG #	DRAWING NAME	TOTAL SHEETS	DRAWING TITLE
01	HA2019-CV	1	COVER SHEET
02	HA2019-FP	1	FOUNDATION PLAN
03	HA2019-ED	1	ELECTRICAL DETAILS
04	HA2019-CP	1	CONDUIT PLAN VIEW
05	HA2019-CS	1	CONDUIT SCHEDULE
06	HA2019-CT	1	CABLE SCHEDULE
07	HA2019-LV	1	LOW VOLTAGE

JEA-000000-000000 (03/17) - WRT/TCY/JP/2017-02-21 - 44-32

<div> <b>BUILDING COMMUNITY</b> 21 W CHURCH ST. JACKSONVILLE, FLORIDA 32202</div>	ISSUED FOR BID	<div>PROFESSIONAL ENGINEER'S SEAL</div> <div>LATEST REVISION ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF PE: _____ LIC. NO.: _____ STATE: _____ DATE: _____</div>	REV	DATE	PROJ #	REVISION DESCRIPTION	BY	REVIEW	ENGINEERING	BREAKER 307, 308, 310, 311 & 312 REPLACEMENTS			DRAWING NAME: HA2019-CV
			-	-	-	-	-	-	DATE 7-23-2019	COVER SHEET			DRAWING SET HA2019
			-	-	-	-	-	-	BY BLS				
			-	-	-	-	-	-	REVIEW -				
			-	-	-	-	-	-	DRAFTING				
			-	-	-	-	-	-	DATE 7-23-2019	HAMILTON STREET SUBSTATION			DRAWING #:
			-	-	-	-	-	-	BY BLS	SCALE: -			01 OF 07
			-	-	-	-	-	-	REVIEW -	SUBSTATION & TRANSMISSION PROJECTS 20410			DRAWING #: 8005239



FOUNDATION DETAILS

SCALE: 1" = 1'-0"

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL REUSE THE EXISTING FOUNDATIONS FOR THE BREAKERS AS SHOWN.
2. FOR PROPER BUSHING ORIENTATION, SEE ELECTRICAL DETAIL DWG.

LEGEND:

EXISTING FOUNDATION

FOUNDATION PLAN

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

JEA/ENCLD JAKOB (03/17) - MPT/EDD/JP/2017-02-21 - 16/26



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LATEST REVISION ORIGINALLY PREPARED UNDER THE RESPONSIBLE SUPERVISION OF
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LIC. NO.: _____
STATE: _____
DATE: _____

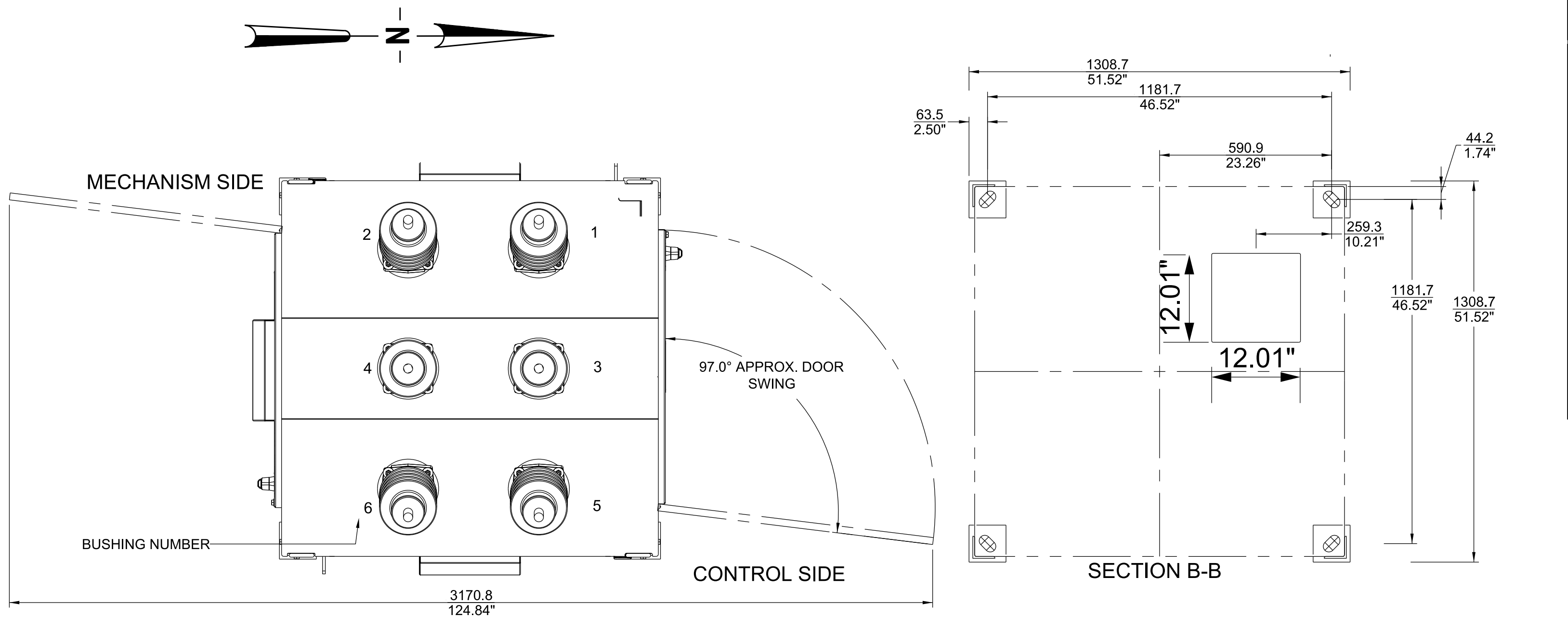
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REVIEW
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REVIEW

BREAKER 307, 308, 310, 311, & 312 REPLACEMENTS		
FOUNDATION PLAN & DETAILS		
HAMILTON STREET SUBSTATION		
SCALE: AS SHOWN	SUBSTATION & TRANSMISSION PROJECTS 20410	PROJ#: 8005239

DRAWING NAME: HA2019-FP
DRAWING SET HA2019
DRAWING #: 03 OF 07





ITEM #	QTY	UNIT	DESCRIPTION	JEA PART #	COMMENTS	REV
1	125	LF	(1 PER PHASE) 10000 MCM, 61 STRAND, MEDIUM HARD DRAWN, BARE COPPER	COBCO042	length is approximate (contractor to verify)	
2	30	EA	CABLE-TO-FLAT 2 HOLE, BOLTED STRAIGHT, TIN PLATED BRONZE	CNNTL730	use for switch terminations	
3	30	EA	CABLE TO FLAT 4 HOLE BOLTED, STRAIGHT 4" 4/0-1000 MCM TIN PLATED BRONZE	CNNTL773	use for all circuit breaker bushing terminations	
4	200	LF	7 # 5 COPPERWELD	COBCW016	length is approximate (contractor to verify)	
5	10	EA	TERMINAL, BOLTED, CABLE TO 2 HOLE PAD, TIN PLATED BRONZE WITH SILICON BRONZE HARDWARE	CNNTTE046	use for ground terminations	
6	250	EA	BOLT KIT FOR CONNECTORS (PACKS)	BOLTE001		

BREAKER INFORMATION:

- NOTES:
1. **RATINGS:**  
RATED MAXIMUM VOLTAGE ..... 28.4 kV  
RATED CONTINUOUS CURRENT ..... 1200A  
RATED SHORT CIRCUIT CURRENT ..... 25 kA  
RATED DRY WITHSTAND VOLTAGE (60 Hz) ..... 60 kV  
RATED FULL WAVE IMPULSE WITHSTAND VOLTAGE (PEAK) ..... 150 kV
2. **WEIGHT:**  
TOTAL & SHIPPING WEIGHT (APPROX.) ..... 1292 kg (2850 lbs)
3. **INSULATOR:**  
TYPE ..... PORCELAIN  
MINIMUM CREEPAGE DISTANCE ALONG SURFACE ..... 673 [26.5']
4. **SURFACE TEATMENT:**  
SUPPORT STRUCTURE ..... HOT DIPPED GALVANIZED  
HOUSING ..... PAINT ANSI TO LIGHT GRAY INSIDE AND OUTSIDE
5. **DYNAMIC LOADING:**  
HORIZONTAL – (ACTING ALONG TANK CENTER LINE) ..... 0.33kN [74-lb]  
VERTICAL UP – (ACTING THROUGH CG) ..... 1.62kN [365-lb]  
VERTICAL DOWN – (ACTING THROUGH CG) ..... 2.10kN [472-lb]  
VERTICAL FORCES ADD TO OR SUBTRACT FROM BREAKER WEIGHT.
6. **INSTALLATION NOTE:**  
LEVEL THE BREAKER BY INSERTING SHIMS BETWEEN THE BREAKER STRUCTURE AND THE FOUNDATION.
7. **HEIGHT DIMENSIONS:**  
INCREMENTALLY CHANGE BY 50mm (1.96 in) RELATIVE TO LEG ADJUSTMENT.


CONSTRUCTION NOTES:

1. CONTRACTOR SHALL REMOVE FROM FOUNDATION AND TRANSPORT EXISTING BREAKERS TO JEA'S WESTSIDE SERVICE CENTER HAZMAT BUILDING DURING SCHEDULED OUTAGES WITH SOCC AND SUB/RELAY O&M.
2. INSTALL BREAKERS TO MATCH BUSHING NUMBERS RELATIVE TO NORTH ARROW. BREAKERS SHALL BE SET AT CENTER OF EXISTING FOUNDATIONS.
3. SET BOTTOM OF BREAKER CABINETS TO HEIGHT OF ~29" FROM TOP OF FOUNDATION THIS IS THE RECOMMENDED HEIGHT, BUT MAY NEED TO BE ADJUSTED FOR LOCATIONS WHERE CLEARANCES ARE AN ISSUE.
4. INSTALL JUMPERS AND TERMINALS AS SHOWN.
5. BOND EXISTING COPPER FROM GROUND GRID TO EQUIPMENT ON EACH SIDE OF THE BREAKER AS SHOWN  
- IF EXISTING GROUND TAIL CANNOT REACH EQUIPMENT, THEN A NEW 7#5 COPPERWELD SHALL BE INSTALLED FROM THE GROUND GRID USING APPROVED EXOTHERMIC CADWELD PLUS MOLDS MANUFACTURED BY CADWELD. INSTALLATION SHALL STRICTLY FOLLOW MANUFACTURER'S INSTRUCTIONS.
6. CONTRACTOR SHALL LABEL THE NEW BREAKERS.

Voltage (kV)	BIL (kV)	Min. Phase-Phase		Min. Phase-Ground	Phase Spacing	Min. Above Grade		Min. to Fence	
		(in)	(ft-in)			Personnel (ft-in)	Roadway (ft)		Horizontal (ft)
13.2	110	12"	1'-0"	7"	0'-7"	2'-0"	9'-0"	21'	10'
34.5	200	18"	1'-6"	13"	1'-1"	3'-0"	9'-6"	22'	10'
69	350	31"	2'-7"	25"	2'-1"	5'-0"	10'-5"	23'	12'
138	650	63"	5'-3"	50"	4'-2"	8'-0"	12'-2"	25'	14'
230	900	89"	7'-5"	71"	5'-11"	11'-0"	14'-10"	27'	16'

Reference RUS Bulletin 1724E-300 (2001), & NESC (2007)

JEA/ARCH/AD JAX036 (03/17) - REVISED JAX07/14/2021 - 16/05



**JEA**  
BUILDING COMMUNITY  
21 W CHURCH ST.  
JACKSONVILLE, FLORIDA 32202

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ENGINEERING

DATE 7-23-2019

BY BLS

REVIEW -

DRAFTING

DATE 7-23-2019

BY BLS

REVIEW -

BREAKER 307, 308, 310, 311, & 312 REPLACEMENTS

ELECTRICAL DETAILS

HAMILTON STREET SUBSTATION

SCALE: N.T.S.

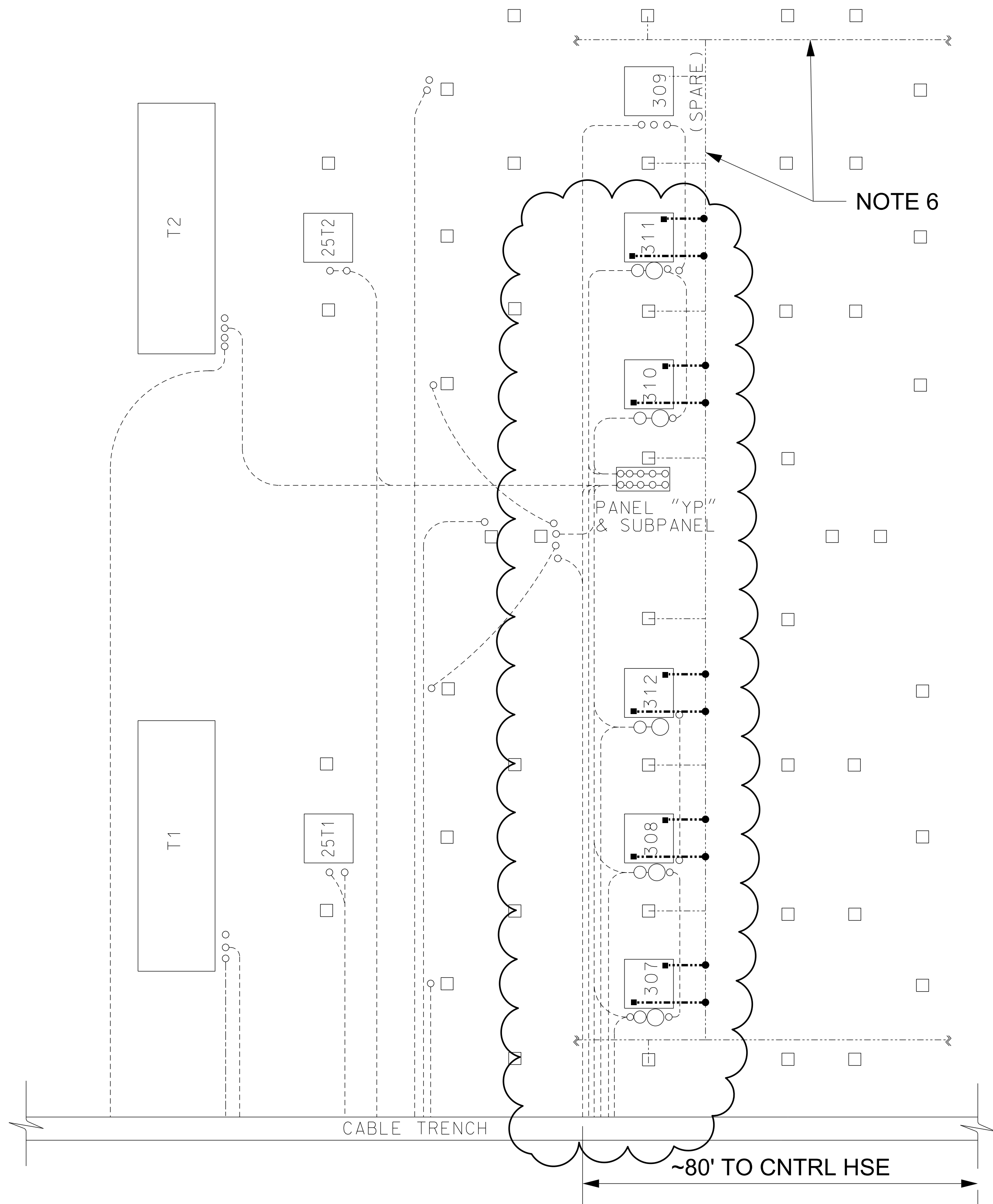
SUBSTATION & TRANSMISSION PROJECTS 20410

PROJ #: 8005239

DRAWING NAME:  
HA2019-ED

DRAWING SET  
HA2019

DRAWING #:  
03 OF 07



## 26KV CONDUIT, CABLE TRENCH, AND PARTIAL GROUNDING PLAN

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

### LEGEND

- EXISTING CONDUIT
- EXISTING 7#5 COPPERWELD GROUND CABLE
- NEW 7#5 COPPERWELD GROUND CABLE
- NEW EXOTHERMIC GROUND CONNECTION
- NEW MECHANICAL GROUND CONNECTION



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PROFESSIONAL  
ENGINEER'S SEAL

LATEST REVISION  
ORIGINALLY PREPARED UNDER  
THE RESPONSIBLE SUPERVISION OF  
PE: \_\_\_\_\_  
LIC. NO.: \_\_\_\_\_  
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DATE: \_\_\_\_\_

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### BREAKER 307, 308, 310, 311, & 312 REPLACEMENTS CONDUIT & GROUNDING PLAN

HAMILTON STREET SUBSTATION

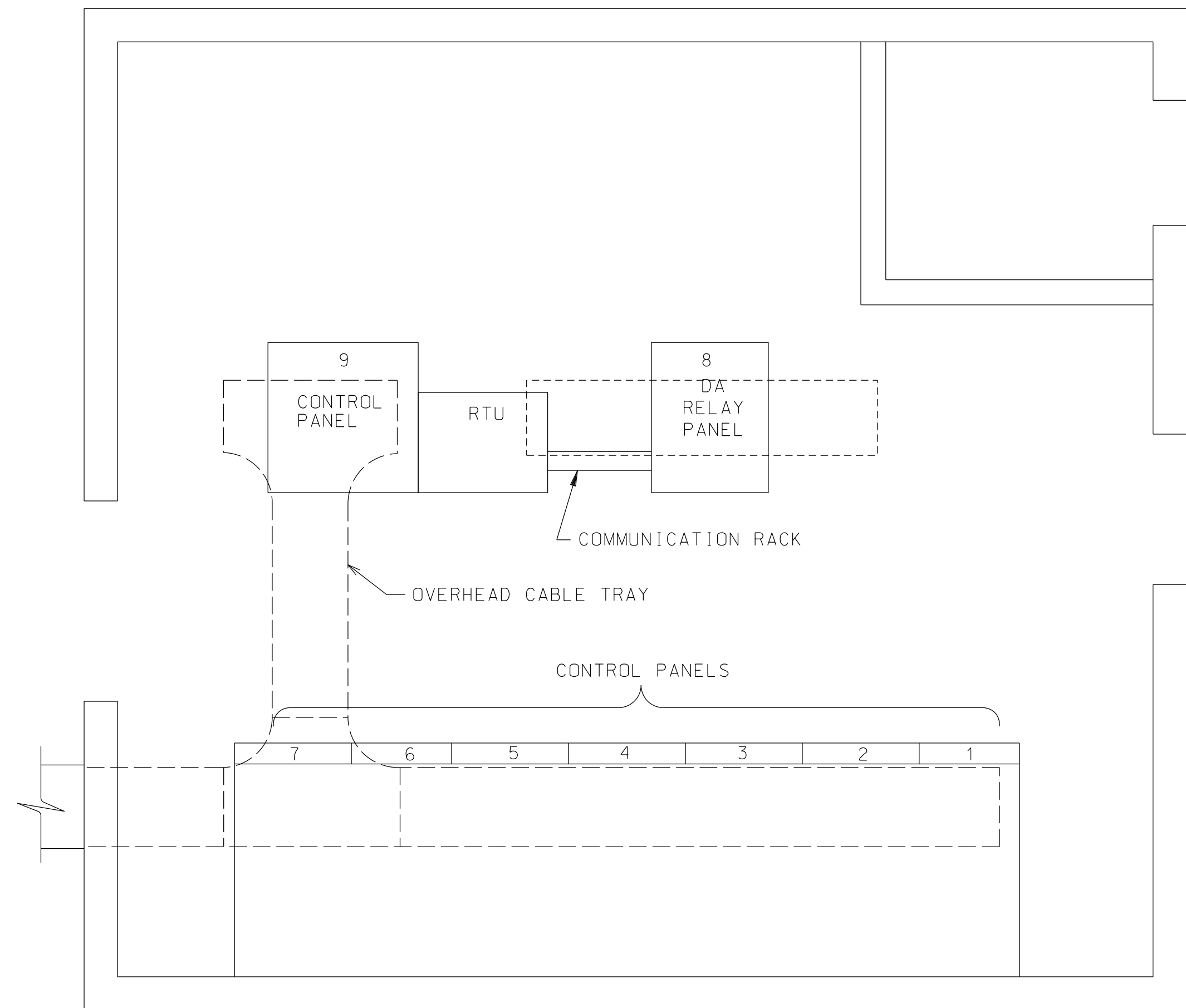
SUBSTATION & TRANSMISSION PROJECTS 20410

PROJ#: 8005239

DRAWING NAME:  
HA2019-CP

DRAWING SET  
HA2019

DRAWING #:  
03 OF 07



### CONTROL HOUSE EQUIPMENT LOCATION DETAIL N.T.S.

### CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL REUSE EXISTING CONDUITS PER THE CONDUIT SCHEDULE AND CUT BACK/CAP ANY UNUSED CONDUITS BELOW GRADE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL CONDUIT AS LISTED IN THE CONDUIT SCHEDULE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PULLING ALL CABLES LISTED IN THE CABLE SCHEDULE. THE CONTRACTOR SHALL ONLY TERMINATE CABLES IN THE NEW GAS CIRCUIT BREAKER CONTROL PANEL. JEA WILL TERMINATE IN CONTROL HOUSE PANELS.
3. ALL ABOVE GRADE CONDUIT SHALL BE EITHER RIGID GALVANIZED STEEL OR ULTRA-VIOLET RESISTANT PVC, SCHEDULE 40. ABOVE GRADE CONDUIT SHALL BE INSTALLED TO CLOSELY CONFORM TO THE FOUNDATION AND STRUCTURE TO WHICH IT IS TO BE MOUNTED AND TO MINIMIZE TRIPPING HAZARDS WHILE WORKING IN THE CONTROL CABINET.
4. ALL CABLES SHALL BE CLEARLY LABELED AT BOTH ENDS AND AT ALL ENTRANCE AND EXIT POINTS TO THE CABLE TRENCH. ALL CONDUIT RUNS SHALL ALSO BE CLEARLY LABELED AT BOTH ENDS.
5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL CONDUIT, CABLE, AND GROUND CONDUCTOR LENGTHS AND LOCATIONS.
6. EXISTING GROUND GRID IS 7#5 COPPERWELD PER SUBSTATION RECORD DWGS. ONLY GROUND GRID WITHIN WORK AREA IS SHOWN ON THIS DRAWING.
7. ALL 7#5 COPPERWELD CONDUCTOR SHALL BE FURNISHED BY JEA AND INSTALLED BY THE CONTRACTOR. ALL GROUND GRID CONDUCTORS AND TAPS SHALL BE CONNECTED USING CADWELD EXOTHERMIC CONNECTIONS AND SHALL BE INSTALLED 24" BELOW GRADE (28" BELOW ROCK SURFACE) EXCEPT WHERE CONECTION TO STRUCTURES AND EQUIPMENT IS ABOVE GRADE.
8. ALL ABOVE GRADE CONNECTIONS OF GROUND CONDUCTOR TO STRUCTURES AND EQUIPMENT, SUCH AS TRANSFORMERS, BREAKERS, LIGHTNING ARRESTERS, ETC. SHALL BE CONNECTED USING OWNER FURNISHED MECHANICALCONNECTORS. ALL EQUIPMENT AND STRUCTURES ERECTED IN THE SUBSTATION MUST BE GROUNDED THE SAME DAY.

CONDUIT SCHEDULE

CONDUIT NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CONDUIT MATERIALS, INCLUDING FITTINGS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL CONDUIT LENGTHS. CONDUIT LENGTHS ARE APPROXIMATE.
3. CONTROL HOUSE CONDUIT EXPOSED RUNS SHALL BE EMT. CONTRACTOR MAY CONCEAL CONTROL HOUSE CONDUIT WITHIN BLOCK WALLS UNLESS STATED OTHERWISE IN THE DRAWINGS. CONTRACTOR SHALL NOT CONCEAL ALUMINUM CONDUIT RUNS.
4. ALL RUNS WITHIN BATTERY ROOM SHALL UTILIZE ALUMINUM CONDUIT. PENETRATIONS THROUGH THE BLOCK WALL SHALL UTILIZE PVC COATED ALUMINUM TO PROVIDE SUFFICIENT ALKALI CORROSION PROTECTION, WITH PENETRATION PROPERLY SEALED.

CONDUIT LEGEND:

- UV  
EMT  
RMC  
IMC  
LFM  
VW
- UV RESISTANT PVC CONDUIT, SCH 40  
ELECTRICAL METALLIC TUBING  
RIGID METALLIC (GALVANIZED STEEL) CONDUIT  
INTERMEDIATE METALLIC CONDUIT  
LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT  
SQAURE WIREWAY

BREAKER 307

CONDUIT #	FROM	TO	SIZE (IN)	TYPE	LENGTH (FT)	CABLE IN CONDUIT	REMARKS	REV
307C1	BKR 307	CABLE TRENCH	5	UV	10	307/C1, 307/C2, 307/PH, 307/MET	EXISTING 5" CONDUIT	
307C2	BKR 307	AC YARD PANEL YP-3P	3	UV	10	307/AC	EXISTING 3" CONDUIT	

BREAKER 308

CONDUIT #	FROM	TO	SIZE (IN)	TYPE	LENGTH (FT)	CABLE IN CONDUIT	REMARKS	REV
308C1	BKR 308	CABLE TRENCH	5	UV	10	308/C1, 308/C2, 308/PH, 308/MET	EXISTING 5" CONDUIT	
308C2	BKR 308	AC YARD PANEL YP-3P	3	UV	10	308/AC	EXISTING 3" CONDUIT	

BREAKER 310

CONDUIT #	FROM	TO	SIZE (IN)	TYPE	LENGTH (FT)	CABLE IN CONDUIT	REMARKS	REV
310C1	BKR 310	CABLE TRENCH	5	UV	10	310/C1, 310/C2, 310/PH, 310/MET	EXISTING 5" CONDUIT	
310C2	BKR 310	AC YARD PANEL YP-3P	3	UV	10	310/AC	EXISTING 3" CONDUIT	

BREAKER 311

CONDUIT #	FROM	TO	SIZE (IN)	TYPE	LENGTH (FT)	CABLE IN CONDUIT	REMARKS	REV
311C1	BKR 311	CABLE TRENCH	5	UV	10	311/C1, 311/C2, 311/PH, 311/MET	EXISTING 5" CONDUIT	
311C2	BKR 311	AC YARD PANEL YP-3P	3	UV	10	311/AC	EXISTING 3" CONDUIT	

BREAKER 312

CONDUIT #	FROM	TO	SIZE (IN)	TYPE	LENGTH (FT)	CABLE IN CONDUIT	REMARKS	REV
312C1	BKR 312	CABLE TRENCH	5	UV	10	312/C1, 312/C2, 312/PH, 312/MET	EXISTING 5" CONDUIT	
312C2	BKR 312	AC YARD PANEL YP-3P	3	UV	10	312/AC	EXISTING 3" CONDUIT	

CONSTRUCTION NOTES:

1. USE EXISTING 3" AND 5" CONDUITS; INSTALL LB AND/OR FLEX TO NEW BREAKER CONDUIT OPENING

JEA\BCH\JG\JACKSON\03171\_MRT\2019\07\24-25\_44-22



21 W CHURCH ST.  
JACKSONVILLE, FLORIDA 32202

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BY	BLS
REVIEW	-

BREAKER 307, 308, 310, 311, & 312 REPLACEMENTS

CONDUIT SCHEDULE

HAMILTON STREET SUBSTATION

SUBSTATION & TRANSMISSION PROJECTS 20410

PROJ #: 8005239

DRAWING NAME:  
HA2019-CS

DRAWING SET  
HA2019

DRAWING #:  
05 OF 07



CABLE SCHEDULE

- CABLE NOTES:

  - TYPE B, BS, F, AND FO CABLE SHALL BE FURNISHED BY THE OWNER, UNLESS OTHERWISE SPECIFIED.
  - THE CONTRACTOR SHALL FURNISH ALL OTHER CABLE, AS SPECIFIED.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL CABLE LENGTHS. CABLE LENGTHS ARE APPROXIMATE.
- CABLE LEGEND:

A  
B  
BS  
C  
F  
FO  
M  
S  
TRAY  
TRENCH

THHN INSULATED COPPER CONDUCTOR  
CONTROL CABLE  
SHIELDED CONTROL CABLE  
RHW, THHW, OR THWN INSULATED COPPER CONDUCTOR  
INSTRUMENT CABLE  
FIBER OPTIC CABLE  
MULTIPLE CONDUCTOR  
SINGLE CONDUCTOR  
CONTROL HOUSE CABLE TRAY  
CABLE TRENCH

BREAKER 307

CABLE #	FROM	TO	VOLT (V)	SIZE	#C	S/M	TYPE	LENGTH (FT)	CONDUIT ROUTE	REMARKS	REV
DA 307 – C2	BKR 307	26KV PNL 8								REMOVE CABLE	
DA 307 – C1	BKR 307	26KV PNL 8								REMOVE CABLE	
104-3	BKR 307	RTU PNL								REMOVE CABLE	
118-2	BKR 307	26KV PNL 3								REMOVE CABLE	
146-1	BKR 307	BKR 308								REMOVE CABLE	
104-1	BKR 307	26KV PNL 3								REMOVE CABLE	
120-1	BKR 307	PANEL YP								REMOVE CABLE	
307/C1	BKR 307	26KV PNL 8	600	10	21	M	BS	200	307C1, TRENCH, TRAY	BREAKER 307 CONTROL	
307/C2	BKR 307	26KV PNL 3	600	10	21	M	BS	190	307C1, TRENCH, TRAY	BREAKER 307 CONTROL	
307/PH	BKR 307	26KV PNL 8	600	10	4	M	BS	200	307C1, TRENCH, TRAY	BREAKER 307 RELAYING	
307/MET	BKR 307	26KV PNL 8	600	10	4	M	BS	200	307C1, TRENCH, TRAY	BREAKER 307 METERING	
307/AC	BKR 307	AC YARD PANEL YP	600	8	3	M	C	110	307C2	240 VAC	

BREAKER 311

CABLE #	FROM	TO	VOLT (V)	SIZE	#C	S/M	TYPE	LENGTH (FT)	CONDUIT ROUTE	REMARKS	REV
DA 311 – C2	BKR 311	26KV PNL 8								REMOVE CABLE	
DA 311 – C1	BKR 311	26KV PNL 8								REMOVE CABLE	
128-3	BKR 311	RTU PNL								REMOVE CABLE	
145-1	BKR 311	BKR 309								REMOVE CABLE	
128-1	BKR 311	26KV PNL 3								REMOVE CABLE	
123-1	BKR 311	PANEL YP								REMOVE CABLE	
311/C1	BKR 311	26KV PNL 8	600	10	21	M	BS	275	311C1, TRENCH, TRAY	BREAKER 311 CONTROL	
311/C2	BKR 311	26KV PNL 5	600	10	21	M	BS	265	311C1, TRENCH, TRAY	BREAKER 311 CONTROL	
311/PH	BKR 311	26KV PNL 8	600	10	4	M	BS	275	311C1, TRENCH, TRAY	BREAKER 311 RELAYING	
311/MET	BKR 311	26KV PNL 8	600	10	4	M	BS	275	311C1, TRENCH, TRAY	BREAKER 311 METERING	
311/AC	BKR 311	AC YARD PANEL YP	600	8	3	M	C	75	311C2	240 VAC	

BREAKER 308

CABLE #	FROM	TO	VOLT (V)	SIZE	#C	S/M	TYPE	LENGTH (FT)	CONDUIT ROUTE	REMARKS	REV
DA 308 – C2	BKR 308	26KV PNL 8								REMOVE CABLE	
DA 308 – C1	BKR 308	26KV PNL 8								REMOVE CABLE	
105-3	BKR 308	RTU PNL								REMOVE CABLE	
147-1	BKR 308	BKR 312								REMOVE CABLE	
105-1	BKR 308	26KV PNL 3								REMOVE CABLE	
120-1	BKR 308	PANEL YP								REMOVE CABLE	
308/C1	BKR 308	26KV PNL 8	600	10	21	M	BS	215	308C1, TRENCH, TRAY	BREAKER 308 CONTROL	
308/C2	BKR 308	26KV PNL 3	600	10	21	M	BS	205	308C1, TRENCH, TRAY	BREAKER 308 CONTROL	
308/PH	BKR 308	26KV PNL 8	600	10	4	M	BS	215	308C1, TRENCH, TRAY	BREAKER 308 RELAYING	
308/MET	BKR 308	26KV PNL 8	600	10	4	M	BS	215	308C1, TRENCH, TRAY	BREAKER 308 METERING	
308/AC	BKR 308	AC YARD PANEL YP	600	8	3	M	C	95	308C2	240 VAC	


BREAKER 312

CABLE #	FROM	TO	VOLT (V)	SIZE	#C	S/M	TYPE	LENGTH (FT)	CONDUIT ROUTE	REMARKS	REV
DA 312 – C2	BKR 312	26KV PNL 8								REMOVE CABLE	
DA 312 – C1	BKR 312	26KV PNL 8								REMOVE CABLE	
106-3	BKR 312	RTU PNL								REMOVE CABLE	
106-1	BKR 312	26KV PNL 3								REMOVE CABLE	
120-1	BKR 312	PANEL YP								REMOVE CABLE	
312/C1	BKR 312	26KV PNL 8	600	10	21	M	BS	230	312C1, TRENCH, TRAY	BREAKER 312 CONTROL	
312/C2	BKR 312	26KV PNL 3	600	10	21	M	BS	220	312C1, TRENCH, TRAY	BREAKER 312 CONTROL	
312/PH	BKR 312	26KV PNL 8	600	10	4	M	BS	230	312C1, TRENCH, TRAY	BREAKER 312 RELAYING	
312/MET	BKR 312	26KV PNL 8	600	10	4	M	BS	230	312C1, TRENCH, TRAY	BREAKER 312 METERING	
312/AC	BKR 312	AC YARD PANEL	600	8	3	M	C	80	312C2	240 VAC	

BREAKER 310

CABLE #	FROM	TO	VOLT (V)	SIZE	#C	S/M	TYPE	LENGTH (FT)	CONDUIT ROUTE	REMARKS	REV
DA 310 – C2	BKR 310	26KV PNL 8								REMOVE CABLE	
DA 310 – C1	BKR 310	26KV PNL 8								REMOVE CABLE	
127-3	BKR 310	RTU PNL								REMOVE CABLE	
127-2	BKR 310	26KV PNL 5								REMOVE CABLE	
146-1	BKR 310	BKR 311								REMOVE CABLE	
127-1	BKR 310	26KV PNL 5								REMOVE CABLE	
122-1	BKR 310	PANEL YP								REMOVE CABLE	
310/C1	BKR 310	26KV PNL 8	600	10	21	M	BS	260	310C1, TRENCH, TRAY	BREAKER 310 CONTROL	
310/C2	BKR 310	26KV PNL 5	600	10	21	M	BS	245	310C1, TRENCH, TRAY	BREAKER 310 CONTROL	
310/PH	BKR 310	26KV PNL 8	600	10	4	M	BS	260	310C1, TRENCH, TRAY	BREAKER 310 RELAYING	
310/MET	BKR 310	26KV PNL 8	600	10	4	M	BS	260	310C1, TRENCH, TRAY	BREAKER 310 METERING	
310/AC	BKR 310	AC YARD PANEL	600	8	3	M	C	60	310C2	240 VAC	

JEA-ARCHD-JACKS (03/17) - MFT/TCY-JSP-2017-4-22 - 4-32



**JEA**  
BUILDING COMMUNITY  
21 W CHURCH ST.  
JACKSONVILLE, FLORIDA 32202

ISSUED FOR BID

PROFESSIONAL ENGINEER'S SEAL

LATEST REVISION  
ORIGINALLY PREPARED UNDER  
THE RESPONSIBLE SUPERVISION OF  
PE: \_\_\_\_\_  
LIC. NO.: \_\_\_\_\_  
STATE: \_\_\_\_\_  
DATE: \_\_\_\_\_

REV	DATE	PROJ #	REVISION DESCRIPTION	BY	REVIEW	ENGINEERING
-	-	-	-	-	-	DATE 7-23-2019
-	-	-	-	-	-	BY BLS
-	-	-	-	-	-	REVIEW -
-	-	-	-	-	-	DRAFTING
-	-	-	-	-	-	DATE 7-23-2019
-	-	-	-	-	-	BY BLS
-	-	-	-	-	-	REVIEW -

BREAKER 307, 308, 310, 311, & 312 REPLACEMENTS

CABLE SCHEDULE

HAMILTON STREET SUBSTATION

SUBSTATION & TRANSMISSION PROJECTS 20410

PROJ#: 8005239

DRAWING NAME:  
HA2019-CT

DRAWING SET  
HA2019

DRAWING #:  
06 OF 07

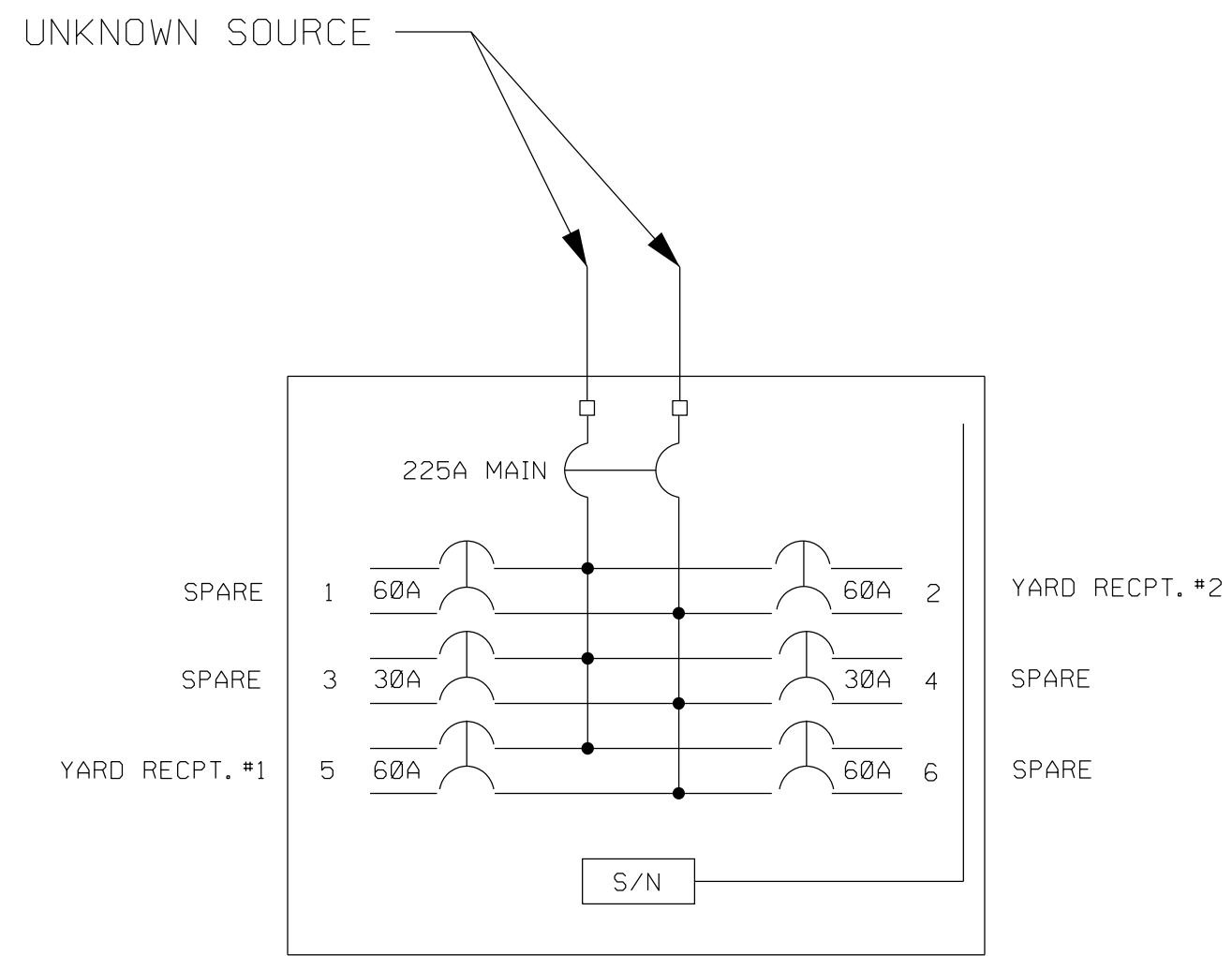


Diagram of a 100Amp service panel showing a main bus with 9 slots. Slots 1, 3, 5, 7, and 9 are occupied by breakers. Slot 1: 15A breaker labeled 'EMERGENCY LTG.'. Slot 3: 20A breaker labeled 'SPARE'. Slot 5: 40A breaker labeled '10KV CONTROL PANEL'. Slot 7: 15A breaker labeled '3RE) CONTROL PANELS'. Slot 9: 100A main breaker labeled 'D.C. BANK'. Slots 2, 4, 6, 8, and 10 are empty and labeled 'SPARE', 'CONTROL PANELS (FUTURE)', 'SPARE', and 'SPACE ONLY' respectively. A vertical bus connects the breakers to a horizontal bus at the bottom, which is connected to the D.C. BANK.

07 OF 07