

Volume 7 has been redacted in its entirety



CONTRACT #6240

DESIGN-BUILD SERVICES
FOR
EXPANSION PROJECT
FROM FLORAL PARK TO HICKSVILLE

CONFORMED DOCUMENTS

VOLUME 7
CONTRACT DRAWINGS
DECEMBER 27, 2017

A blue ink signature consisting of a stylized, large letter 'A' with a horizontal line through it, and the initials 'JHE' written below it in a cursive script.

VOLUME 7 - CONTRACT DRAWINGS

DWG #	DESCRIPTION:	DISCIPLINE:
COVER	TITLE SHEET	
INDEX	VOLUME 7 - CONTRACT DRAWINGS INDEX	
T-TG-001	HORIZONTAL CURVE DATA	TRACK/3RD RAIL
T-TG-002	HORIZONTAL CURVE DATA	TRACK/3RD RAIL
T-TG-003	HORIZONTAL ALIGNMENT DATA AND COORDINATES	TRACK/3RD RAIL
T-TG-004	HORIZONTAL ALIGNMENT DATA AND COORDINATES	TRACK/3RD RAIL
T-TG-005	HORIZONTAL ALIGNMENT DATA, NEW TURNOUT DATA, AND COORDINATES	TRACK/3RD RAIL
ET-100	TRACTION POWER ELECTRICAL SYMBOLS, LEGEND AND DEVICES	TRACTION POWER
ET-101	TYPICAL SINGLE LINE DIAGRAM (SHEET 1 OF 2)	TRACTION POWER
ET-102	TYPICAL SINGLE LINE DIAGRAM (SHEET 2 OF 2)	TRACTION POWER
ET-103	TYPICAL AC LINE BREAKER CONTROL SCHEMATIC	TRACTION POWER
ET-104	TYPICAL AC TIE BREAKER CONTROL SCHEMATIC	TRACTION POWER
ET-105	TYPICAL AC TRANSFORMER BREAKER CONTROL SCHEMATIC	TRACTION POWER
ET-106	TYPICAL RECTIFIER TRANSFORMER CONTROL SCHEMATIC	TRACTION POWER
ET-107	TYPICAL CATHODE BREAKER CONTROL SCHEMATIC (SHEET 1 OF 3)	TRACTION POWER
ET-108	TYPICAL CATHODE BREAKER CONTROL SCHEMATIC (SHEET 2 OF 3)	TRACTION POWER
ET-109	TYPICAL CATHODE BREAKER CONTROL SCHEMATIC (SHEET 3 OF 3)	TRACTION POWER
ET-110	DC POSITIVE TIE BREAKER CONTROL SCHEMATIC	TRACTION POWER
ET-111	TYPICAL FEEDER BREAKER CONTROL SCHEMATIC (SHEET 1 OF 2)	TRACTION POWER
ET-112	TYPICAL FEEDER BREAKER CONTROL SCHEMATIC (SHEET 2 OF 2)	TRACTION POWER
ET-113	DC HIGH RESISTANCE TO GROUND FAULT PROTECTION SCHEMATIC	TRACTION POWER
ET-114	TYPICAL SUBSTATION AUXILIARY POWER SINGLE LINE DIAGRAM	TRACTION POWER
ET-115	TYPICAL SUBSTATION SCADA BLOCK DIAGRAM	TRACTION POWER
SN-01	SYMBOLS AND NOTES	SIGNALS
SN-02	SYMBOLS AND NOTES	SIGNALS
SN-03	SYMBOLS AND NOTES	SIGNALS
SN-04	SYMBOLS AND NOTES	SIGNALS
TYP_INT_H-01	TYPICAL INTERLOCKING TRACK AND CABLE PLAN	SIGNALS
TYP_INT_H-02	VITAL CIRCUITS TYPICAL INTERLOCKING TRACK CIRCUIT B1T	SIGNALS
TYP_INT_H-03	VITAL CIRCUITS TYPICAL INTERLOCKING TRACK CIRCUIT A2T	SIGNALS
TYP_INT_H-06	VITAL CIRCUITS M23 SWITCH MACHINE CIRCUITS SWITCHES 12W, 12WA, 12WMPF	SIGNALS
TYP_INT_H-07	VITAL CIRCUITS M23 SWITCH MACHINE CONTROL SWITCHES 12W, 12WA, 12WMPF	SIGNALS
TYP_INT_H-12	VITAL CIRCUITS SIGNAL LIGHTING SIGNAL 1E	SIGNALS
TYP_INT_H-23	VITAL CIRCUITS TRAFFIC TRACK 1 EAST	SIGNALS
TYP_INT_H-29	VITAL CIRCUITS VPLC INPUTS AND OUTPUTS TRACK CIRCUIT A1T	SIGNALS
TYP_INT_H-41	VITAL CIRCUITS INPUT CIRCUITS WAYSIDE INTERFACE UNIT	SIGNALS
TYP_INT_H-48	POWER CIRCUITS 100 HZ POWER DISTRIBUTION MAIN HUT	SIGNALS
TYP_INT_H-49	POWER CIRCUITS 100 HZ POWER DISTRIBUTION BATTERY HUT	SIGNALS
TYP_INT_H-54	POWER CIRCUITS 60 HZ POWER DISTRIBUTION MAIN HUT	SIGNALS
TYP_INT_H-55	POWER CIRCUITS 60 HZ POWER DISTRIBUTION BATTERY HUT	SIGNALS
TYP_INT_H-56	POWER CIRCUITS 60 HZ POWER DISTRIBUTION 1W-2W HUT	SIGNALS
TYP_INT_H-57	POWER CIRCUITS DC POWER DISTRIBUTION VB / NVB	SIGNALS
TYP_INT_H-58	POWER CIRCUITS DC POWER DISTRIBUTION B	SIGNALS
TYP_INT_H-59	POWER CIRCUITS DC POWER DISTRIBUTION MAIN HUT	SIGNALS
TYP_INT_H-60	POWER CIRCUITS DC POWER DISTRIBUTION 1E-2E HUT	SIGNALS
TYP_INT_H-61	POWER CIRCUITS DC POWER DISTRIBUTION 1W-2W HUT	SIGNALS
TYP_INT_H-63	NON-VITAL CIRCUITS LOCAL CONTROL PANEL LAYOUT	SIGNALS
TYP_INT_H-64	NON-VITAL CIRCUITS LOCAL CONTROL PANEL CONTROLS POWER, LOCAL CONTROL & LAMP TEST	SIGNALS
TYP_INT_H-65	NON-VITAL CIRCUITS LOCAL CONTROL PANEL CONTROLS SIGNAL REQUESTS AND SWITCHES	SIGNALS
TYP_INT_H-66	NON-VITAL CIRCUITS LOCAL CONTROL PANEL CONTROLS ACB, HOLDS, SIGNALS & MISC. REQUESTS	SIGNALS
TYP_INT_H-67	NON-VITAL CIRCUITS LOCAL CONTROL PANEL INDICATIONS TRACK CIRCUITS, APPROACH CIRCUITS & SWITCHES	SIGNALS
TYP_INT_H-68	NON-VITAL CIRCUITS LOCAL CONTROL PANEL INDICATIONS ABSOLUTE BLOCK, TRAFFIC & HOLDS	SIGNALS
TYP_INT_H-69	NON-VITAL CIRCUITS LOCAL CONTROL PANEL INDICATIONS SYSTEM STATUS	SIGNALS
TYP_INT_H-70	NON-VITAL CIRCUITS LOCAL CONTROL PANEL INDICATIONS, ALARMS, MISCELLANEOUS & COMMUNICATIONS	SIGNALS
TYP_INT_H-71	NON-VITAL CIRCUITS INPUTS AND OUTPUTS SNOW MELTER, MAINTAINERS' CALL, ALARM	SIGNALS
TYP_INT_H-72	NON-VITAL CIRCUITS LOCAL CONTROL PANEL TRANSFER CIRCUITS	SIGNALS
TYP_INT_H-73	NON-VITAL CIRCUITS HUT ENTRY INPUTS	SIGNALS
TYP_INT_H-74	NON-VITAL CIRCUITS ALARM INPUTS FIRE AND ENERGY	SIGNALS
TYP_INT_H-75	NON-VITAL CIRCUITS DUPLINE ELECTRONIC RECEIVERS NON-VITAL INPUTS WEST	SIGNALS
TYP_INT_H-79	SNOW MELTER CIRCUITS SWITCH 12E	SIGNALS
TYP_INT_L-01	TYPICAL HUT LAYOUT MAIN HUT 10' X 40'	SIGNALS
TYP_INT_L-02	TYPICAL HUT LAYOUT 1E-2E LOCATION 8' X 10'	SIGNALS
TYP_INT_L-03	TYPICAL HUT LAYOUT 1W-2W LOCATION 8' X 20'	SIGNALS

DWG #	DESCRIPTION:	DISCIPLINE:
TYP_INT_L-04	TYPICAL HUT LAYOUT BATTERY HUT 8' X 10'	SIGNALS
TYP_INT_L-05	TYPICAL 1W-2W HUT LAYOUT 60" BATTERY CASE LAYOUT	SIGNALS
TYP_INT_L-06	TYPICAL MAIN HUT RACK 1 LAYOUT	SIGNALS
TYP_INT_L-07	TYPICAL MAIN HUT RACK 3 LAYOUT	SIGNALS
TYP_INT_L-08	TYPICAL MAIN HUT RACK 4 LAYOUT	SIGNALS
TYP_INT_L-09	TYPICAL MAIN HUT RACK 7 LAYOUT	SIGNALS
TYP_INT_L-18	TYPICAL MAIN HUT WALL "A" LAYOUT CENTER WALL	SIGNALS
TYP_INT_L-20	TYPICAL MAIN HUT WALL "A" LAYOUT RIGHT WALL	SIGNALS
TYP_INT_L-21	TYPICAL MAIN HUT WALL "C" LAYOUT	SIGNALS
TYP_INT_L-22	TYPICAL 1E-2E LOCATION WALL "A" LAYOUT	SIGNALS
TYP_INT_L-23	TYPICAL 1E-2E LOCATION WALL "C" LAYOUT	SIGNALS
TYP_INT_L-24	TYPICAL 1W-2W LOCATION WALL "A" LAYOUT	SIGNALS
TYP_INT_L-26	TYPICAL 1W-2W LOCATION WALL "C" LAYOUT LEFT WALL	SIGNALS
TYP_INT_L-27	TYPICAL 1W-2W LOCATION WALL "C" LAYOUT RIGHT WALL	SIGNALS
TYP_INT_L-28	TYPICAL BATTERY HUT WALL "A" LAYOUT	SIGNALS
TYP_INT_L-29	TYPICAL BATTERY HUT WALL "C" LAYOUT	SIGNALS
TYP_N-01	NOTES	SIGNALS
TYP_M-01	TYPICAL MASTER LOCATION TRACK AND CABLE PLAN	SIGNALS
TYP_M-02	MASTER LOCATION TRACK CIRCUITS TRACK 1	SIGNALS
TYP_M-04	MASTER LOCATION LINE CIRCUITS TRACK 1	SIGNALS
TYP_M-05	MASTER LOCATION LINE CIRCUITS TRACK 1	SIGNALS
TYP_M-06	MASTER LOCATION CODE CIRCUITS TRACK	SIGNALS
TYP_M-07	MASTER LOCATION NON-VITAL CIRCUITS DUPLINE	SIGNALS
TYP_M-08	MASTER LOCATION POWER CIRCUITS 100HZ POWER DISTRIBUTION	SIGNALS
TYP_M-09	MASTER LOCATION POWER CIRCUITS DC POWER DISTRIBUTION	SIGNALS
TYP_M-L-01	MASTER LOCATION HUT LAYOUT 8' X 20' (MIN)	SIGNALS
TYP_M-L-02	MASTER LOCATION RACK LAYOUT RACK 1	SIGNALS
TYP_M-L-04	MASTER LOCATION WALL "A" LAYOUT LEFT SIDE	SIGNALS
TYP_M-L-05	MASTER LOCATION WALL "A" LAYOUT RIGHT SIDE	SIGNALS
TYP_M-L-06	MASTER LOCATION WALL "C" LAYOUT LEFT SIDE	SIGNALS
TYP_M-L-07	MASTER LOCATION WALL "C" LAYOUT RIGHT SIDE	SIGNALS
TYP_M-L-08	MASTER LOCATION TERMINAL BOARD LAYOUT TB1	SIGNALS
TYP_M-L-09	MASTER LOCATION TERMINAL BOARD LAYOUT TB2	SIGNALS
TYP_M-L-12	MASTER LOCATION TERMINAL BOARD #1 CABLE LINEUPS	SIGNALS
TYP_EL-01	TYP ELECTRIC LOCK LOCATION TRACK AND CABLE PLAN	SIGNALS
TYP_EL-02	ELECTRIC LOCK LOCATION SWITCH CIRCUITS	SIGNALS
TYP_EL-05	ELECTRIC LOCK LOCATION LINE CIRCUITS TRACK 1	SIGNALS
TYP_EL-06	ELECTRIC LOCK LOCATION LINE CIRCUITS TRACK 1	SIGNALS
TYP_EL-07	ELECTRIC LOCK LOCATION LINE CIRCUITS TRACK 1	SIGNALS
TYP_EL-08	ELECTRIC LOCK LOCATION LINE CIRCUITS TRACK 1	SIGNALS
TYP_EL-31	ELECTRIC LOCK LOCATION NON-VITAL CIRCUITS DUPLINE	SIGNALS
TYP_EL-41	ELECTRIC LOCK LOCATION POWER CIRCUITS 100HZ POWER DISTRIBUTION	SIGNALS
TYP_EL-42	ELECTRIC LOCK LOCATION POWER CIRCUITS DC POWER DISTRIBUTION	SIGNALS
TYP_EL-43	ELECTRIC LOCK LOCATION TERMINAL BOARD CABLE LINEUPS	SIGNALS
TYP_EL-44	ELECTRIC LOCK LOCATION CASE LAYOUT 60" CASE	SIGNALS

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NO.	DATE	DSN.	CHK.	APP.	REVISIONS



DESIGNED:	JFL
DRAWN:	JFL
CHECKED:	DAH
APPROVED:	DAB
SCALE:	1"=50'-0"
DATE:	06/06/2017

PROPOSED PROJECT ALTERNATIVE
FLORAL PARK TO HICKSVILLE

VOLUME 7 - INDEX
OF CONTRACT DRAWINGS

CONTRACT NO.:	6240
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