

**STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION**

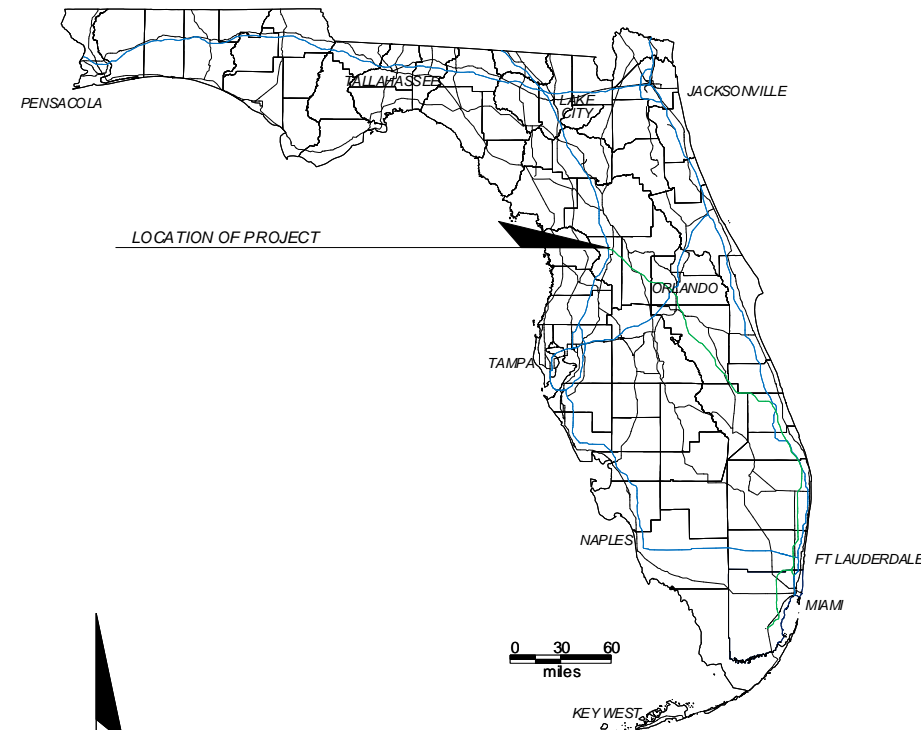
**APPENDIX K**

FINANCIAL PROJECT ID 424401-1-52-01  
SUMTER COUNTY  
WILDWOOD (5-5496) LED TOWER OBSTRUCTION LIGHTING UPGRADE

**INTELLIGENT TRANSPORTATION SYSTEMS PLANS**

**INDEX OF PLANS**

SHEET NO.	SHEET DESCRIPTION
K-1	KEY SHEET
K-2	WILDWOOD REMOVAL AND INSTALLATION NOTES
K-3	WILDWOOD COMMUNICATIONS BUILDING DETAIL
K-4	WILDWOOD TOWER LOADING DIAGRAM



WILDWOOD TOWER SITE

TOWER SITE ADDRESS:  
WILDWOOD  
688 E. SR-44  
WILDWOOD, FL 34785  
LATITUDE: 28-52-26.0 N (NAD 83)  
LONGITUDE: 82-05-30.7 W

NOTE: THE SCALE OF THESE PLANS MAY  
HAVE CHANGED DUE TO REPRODUCTION.

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS (CURRENT EDITION),  
AND STANDARD SPECIFICATIONS FOR ROAD AND  
BRIDGE CONSTRUCTION (CURRENT EDITION),  
AS AMENDED BY CONTRACT DOCUMENTS.

**FLORIDA DEPARTMENT OF  
TRANSPORTATION  
LED TOWER OBSTRUCTION LIGHTING  
UPGRADE PROJECT**

FDOT PROJECT MANAGER: RANDY PIERCE

CONTRACT PLANS RECORD					
DATE	REV.	DESCRIPTION	DATE	REV.	DESCRIPTION



FLORIDA DEPARTMENT OF TRANSPORTATION  
605 SUWANNEE ST. MS 90  
TALLAHASSEE, FL 32399-0450  
PH. (850)-410-5600  
FAX. (850)-410-5501

**STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION**

SITE NAME	COUNTY	FINANCIAL PROJECT ID
WILDWOOD	SUMTER	424401-1-52-01

**WILDWOOD  
KEY SHEET**

SHEET NO.

K-1

**REMOVAL NOTES:**

1. THE VENDOR SHALL REMOVE THE OLD OBSTRUCTION LIGHTING SYSTEM, INCLUDING BUT NOT LIMITED TO, POWER SUPPLIES, CONTROLLERS, SPDS, CONDUITS, TOWER LIGHT PHOTOCELL, AND ALL ASSOCIATED ELECTRICAL AND GROUNDING CONDUCTORS. THE VENDOR SHALL LEAVE THE CIRCUIT BREAKER IN PLACE AND SWITCH IT TO THE "OFF" POSITION. THE VENDOR SHALL DELIVER THE OLD TOWER LIGHT CONTROLLER AND BEACON TO THE MAINTENANCE CONTRACTOR ON SITE, AND PROPERLY DISPOSE OF THE REMAINING MATERIALS.  
THE VENDOR SHALL PATCH ALL WALL PENETRATIONS WITH AN APPROPRIATE MORTAR MIX AND SHALL APPROPRIATELY PLUG ALL OPENINGS TO ELECTRICAL BOXES THAT ARE A RESULT OF CONDUIT REMOVAL WITH METALLIC PLUGS.
2. THE VENDOR SHALL DISCONNECT AND PROPERLY REMOVE AND DISPOSE OF THE DB-230 ANTENNAS LABELED "I" AND "K" AND THE ASSOCIATED TRANSMISSION LINES AND ANTENNA MOUNTS ON THE EXISTING TOWER LOADING DETAIL ON SHEET K-4. THE VENDOR SHALL REMOVE AND PROPERLY DISPOSE OF THE TRANSMISSION LINE SPDS LOCATED INSIDE THE COMMUNICATIONS SHELTER UPON THE TRANSMISSION LINES ENTERING THE SHELTER, AND RETURN TO THE FDOT. THE VENDOR SHALL INSTALL NEW ENTRY PORT BOOTS ON THE BULKHEAD.

**WILDWOOD INSTALLATION NOTES:**

1. THE VENDOR SHALL FURNISH AND INSTALL A NEW -48 VDC LED DUAL DAYTIME/NIGHT-TIME TOWER OBSTRUCTION LIGHTING SYSTEM IN ACCORDANCE WITH THESE PLANS. THE TOWER OBSTRUCTION LIGHTING SYSTEM SHALL BE TECHNOSTROBE E1-LED-B-HYBRID-48VDC-SNMP-2M-C-APT-DS-G5 DUAL LED FLASH HEAD. TOWER LIGHTS TO BE INSTALLED ARE LABELED "A" AND "I" ON THE PROPOSED TOWER LOADING DETAIL ON SHEET K-4.  
THE TOWER OBSTRUCTION LIGHTING SYSTEM AND CONDUIT SHALL BE MOUNTED TO THE TOWER AND HORIZONTAL TRANSMISSION LINE BRIDGE WITH GALVANIZED OR STAINLESS STEEL BOLT-ON HARDWARE. SNAP-ON HANGERS ARE NOT PERMITTED. ALL EXTERIOR TOWER LIGHTING CABLES SHALL BE INSTALLED IN APPROPRIATELY SIZED RIGID GALVANIZED STEEL (RGS) CONDUIT.  
THE TOWER LIGHT CONTROLLER SHALL BE MOUNTED INSIDE THE COMMUNICATIONS SHELTER. SEE SHEET K-3.
2. THE VENDOR SHALL FURNISH AND INSTALL NEW ELECTRICAL METALLIC TUBING (EMT) CONDUIT INSIDE THE COMMUNICATIONS SHELTER BETWEEN THE TOWER LIGHT CONTROLLER AND THE -48VDC DISTRIBUTION RACK. THE VENDOR SHALL FURNISH AND INSTALL NEW EMT CONDUIT FOR THE PHOTOCELL AND CONTROL WIRING BETWEEN THE TOWER LIGHT CONTROLLER AND ENTRY PORT INSIDE THE SHELTER, AND IT SHALL BE LOCATED SO AS NOT TO OBSCURE ANY PORTION OF AN ELECTRICAL OUTLET OR JUNCTION BOX, PER NEC, ITEM 11, 'APPLICABLE PUBLICATIONS AND STANDARDS' OR OBSTRUCT ANY EMPTY ENTRY PORTS. THE VENDOR SHALL REUSE THE EXISTING EXTERIOR PHOTOCELL METALLIC CONDUIT. THE VENDOR SHALL TERMINATE THE EXTERIOR EMT CONDUIT AT BOTH ENDS WITH AN END BUSHING.
3. THE VENDOR SHALL INSTALL THE LOAD CONDUCTORS BETWEEN THE TOWER LIGHTING SYSTEM, AND THE -48VDC DISTRIBUTION PANEL, IN ACCORDANCE WITH SHEET A-4. THE 10A BREAKER MODEL AIRPAX MODEL: LML1-1RLS4R-29954-10
4. THE VENDOR SHALL CONFIGURE THE TECHNOSTROBE TOWER LIGHT CONTROLLER WITH THE FOLLOWING NETWORK INFORMATION:  
IP ADDRESS: 172.16.8.14  
SUBNET MASK: 255.255.254.0  
DEFAULT GATEWAY: 172.16.8.19
5. THE VENDOR SHALL CONFIGURE THE TECHNOSTROBE TOWER LIGHT CONTROLLER WITH THE FOLLOWING SNMP INFORMATION:  
STATE: ENABLED  
READ COMMUNITY: PUBLIC  
WRITE COMMUNITY: PUBLIC  
SYSTEM NAME: WILDWOOD TECHNOSTROBE  
SYSTEM DESCRIPTION: WILDWOOD TECHNOSTROBE TOWER LIGHTS  
SYSTEM LOCATION: WILDWOOD  
TRAP STATE: WILDWOOD  
TRAPS PRIMARY DESTINATION: 172.16.221  
TRAPS SECONDARY DESTINATION: 172.16.1621
6. THE VENDOR SHALL NOTIFY THE FDOT UPON COMPLETION OF ALL TOWER OBSTRUCTION LIGHTING SYSTEM INSTALLATION WORK.
7. THE FDOT WILL INSPECT THE TOWER OBSTRUCTION LIGHTING SYSTEM INSTALLATION FOR COMPLIANCE WITH THESE SPECIFICATIONS.
8. THE FDOT WILL WITNESS COMMISSIONING AND TESTING OF THE NEW TOWER OBSTRUCTION LIGHTING SYSTEM AND NOTIFY THE VENDOR OF FINAL ACCEPTANCE.

**CONTRACT PLANS RECORD**

DATE	REV.	DESCRIPTION	DATE	REV.	DESCRIPTION



FLORIDA DEPARTMENT OF TRANSPORTATION  
605 SUWANNEE ST. MS 90  
TALLAHASSEE, FL 32399-0450  
PH. (850)-410-5600  
FAX. (850)-410-5501

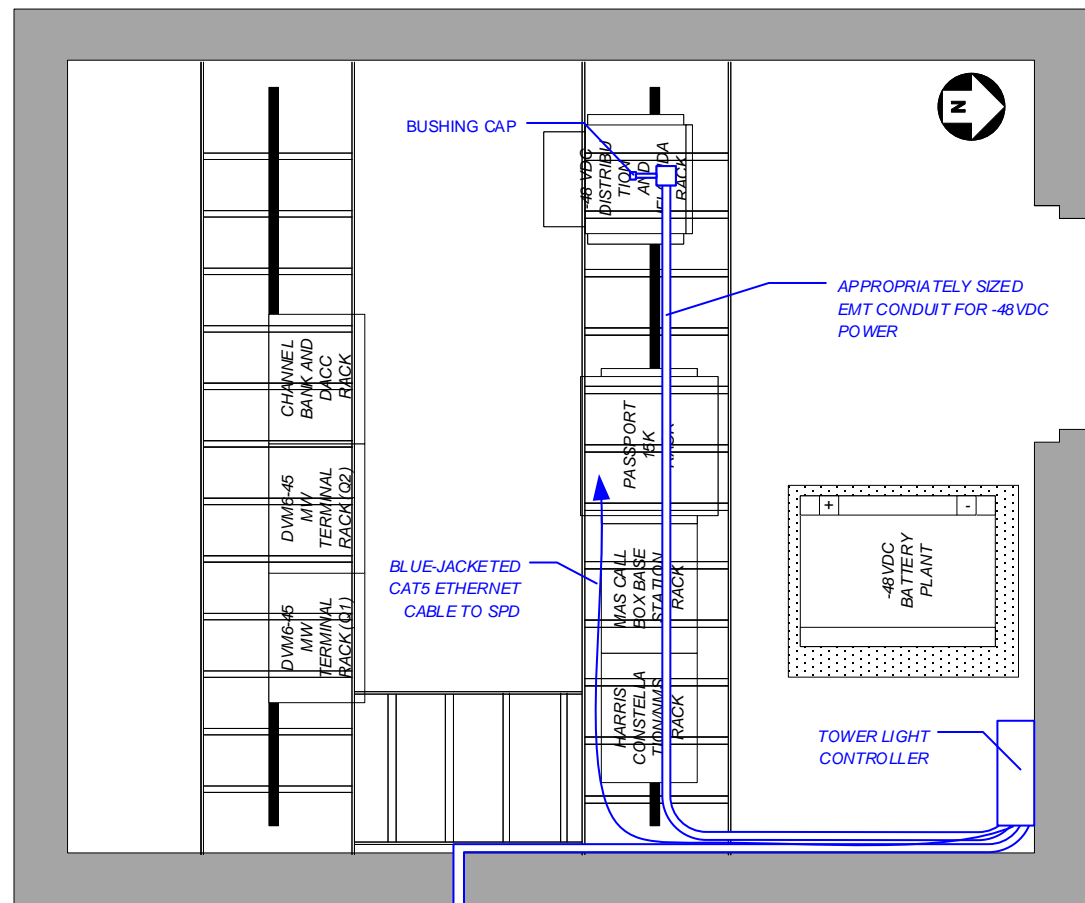
**STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION**

SITE NAME	COUNTY	FINANCIAL PROJECT ID
WILDWOOD	SUMTER	424401-1-52-01

**WILDWOOD  
REMOVAL AND  
INSTALLATION NOTES**

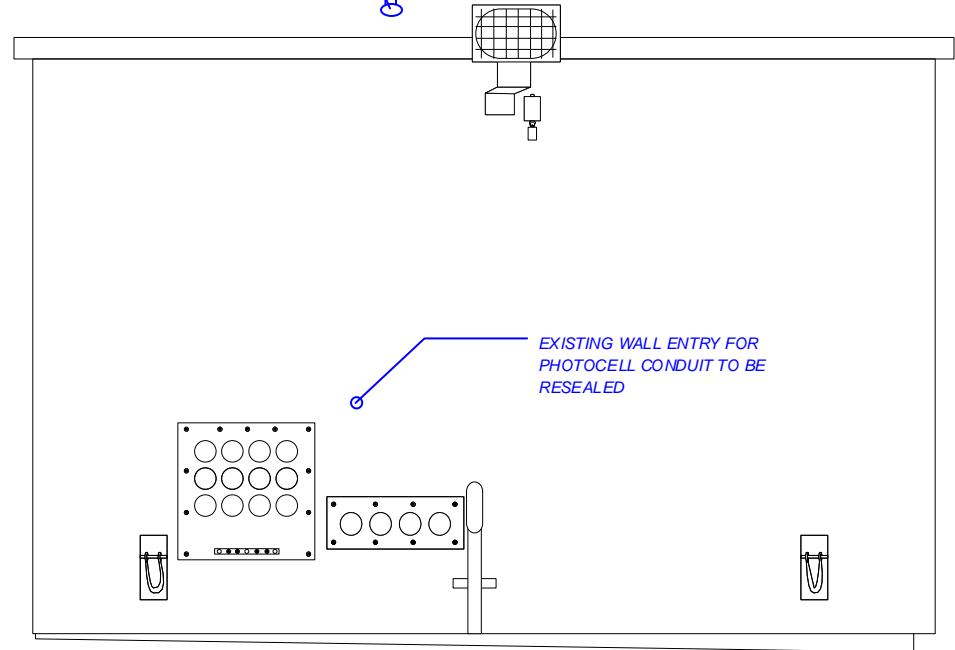
SHEET NO.

K-2

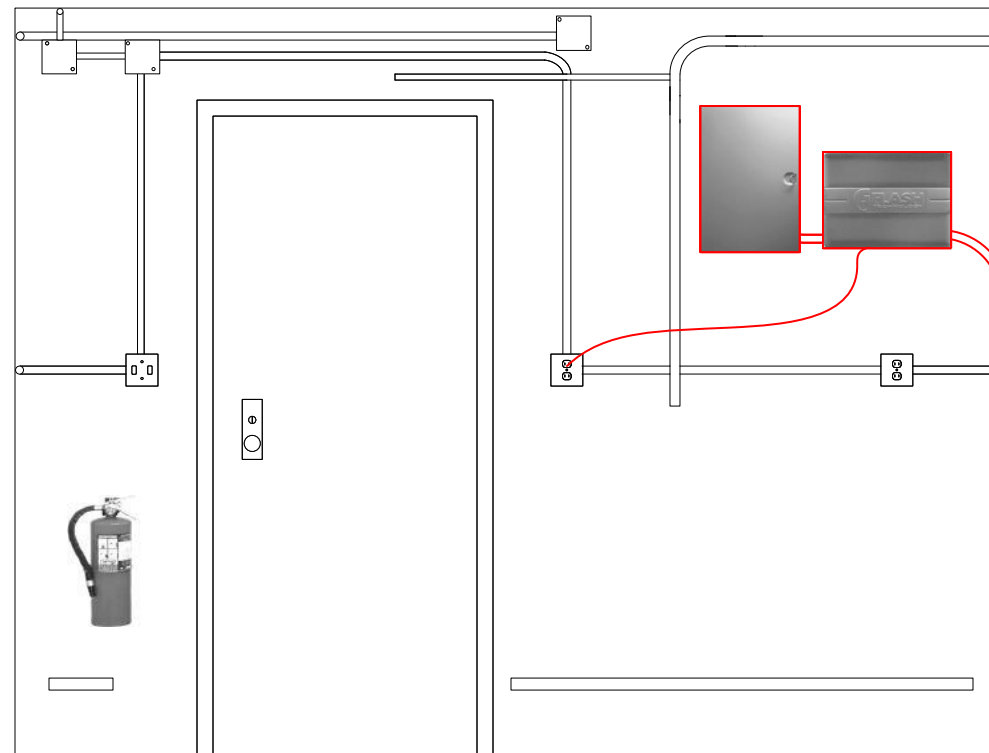


**SHELTER CABLETRAY PLAN**

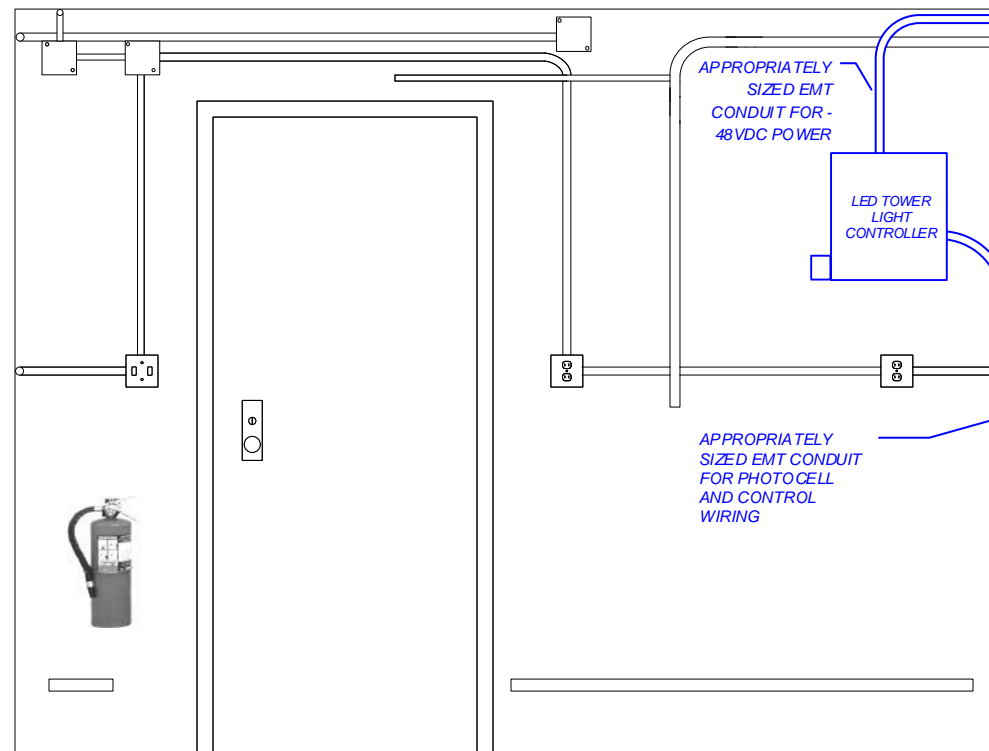
NEW PHOTOCELL LOCATED ON VERTICAL TRANSMISSION LINE LADDER AND REUSE THE EXISTING CONDUIT IF SERVICABLE



**EXTERIOR EAST WALL**



**EXISTING INTERIOR NORTH WALL**



**PROPOSED INTERIOR NORTH WALL**

**NOTES**

1. THE APPROXIMATE LOCATION OF THE EQUIPMENT IS FOR DIAGRAMMATICAL PURPOSES ONLY. THE VENDOR IS RESPONSIBLE FOR DETERMINING THE BEST LOCATIONS FOR EQUIPMENT AND ALL ASSOCIATED CONDUITS AND MOUNTING AND GROUNDING HARDWARE. THE VENDOR SHALL SUBMIT DETAILED PLANS FOR APPROVAL BY THE FDOT.
2. THE VENDOR SHALL PATCH ALL WALL PENETRATIONS WITH AN APPROPRIATE MORTAR MIX AND SHALL APPROPRIATELY PLUG ALL OPENINGS TO ELECTRICAL BOXES THAT ARE A RESULT OF CONDUIT REMOVAL WITH METALLIC PLUGS.
3. THE VENDOR SHALL INSTALL THE NEW TECHNOSTROBE -48 VDC TOWER OBSTRUCTION LIGHTING SYSTEM MODEL E1-LED-B-HYBRID-48VDC-SNMP-2M-C-APT-DS-G5 DUAL LED FLASH HEAD WITH ASSOCIATED PHOTOCELL, SURGE PROTECTION, GROUNDING, AND CONDUIT.
4. THE VENDOR SHALL FURNISH AND INSTALL ONE (1) ETHERNET SURGE PROTECTIVE DEVICE (SPD), MTL-SURGE MODEL NUMBER ZB24540. THIS SPD SHALL BE MOUNTED ON THE DIN RAIL IN THE PASSPORT RACK.
5. THE VENDOR SHALL INSTALL CUSTOM LENGTH BLUE-JACKETED CAT 5 CABLE FROM THE TECHNOSTROBE ETHERNET PORT TO THE NEWLY INSTALLED ETHERNET SPD IN THE PASSPORT RACK AND FROM THE SPD TO THE BPS 2000, PORT #21.  
  
THE VENDOR SHALL ROUTE THE NEW BLUE-JACKETED CAT 5 ETHERNET CABLE ALONG THE OVERHEAD CABLE TRAYS, PARALLEL TO EXISTING ETHERNET CABLES TO THE CHANNEL BANK RACK. THE VENDOR SHALL INDEPENDENTLY SECURE THE ETHERNET CABLE TO THE OVERHEAD CABLE TRAYS WITH ZIP TIES OR LACING STRING, AT 36 IN. INTERVALS, MAXIMUM.
6. THE VENDOR SHALL MECHANICALLY GROUND THE TECHNOSTROBE TOWER LIGHT CONTROLLER TO THE GROUND HALO USING #6 AWG GREEN JACKETED CONDUCTOR. THE GROUND SHALL BE DOWNWARD COURSING, AND AS STRAIGHT AND SHORT AS POSSIBLE.  
  
THE VENDOR SHALL CLEAN AND PREPARE ALL GROUND CONDUCTORS AND SURFACES PRIOR TO BONDS. ALL NON-CONDUCTING SURFACE COATINGS SHALL BE REMOVED BEFORE EACH CONNECTION IS MADE.

**LEGEND**



CONTRACT PLANS RECORD					
DATE	REV.	DESCRIPTION	DATE	REV.	DESCRIPTION



FLORIDA DEPARTMENT OF TRANSPORTATION  
605 SUWANNEE ST. MS 90  
TALLAHASSEE, FL 32399-0450  
PH. (850)-410-5600  
FAX. (850)-410-5501

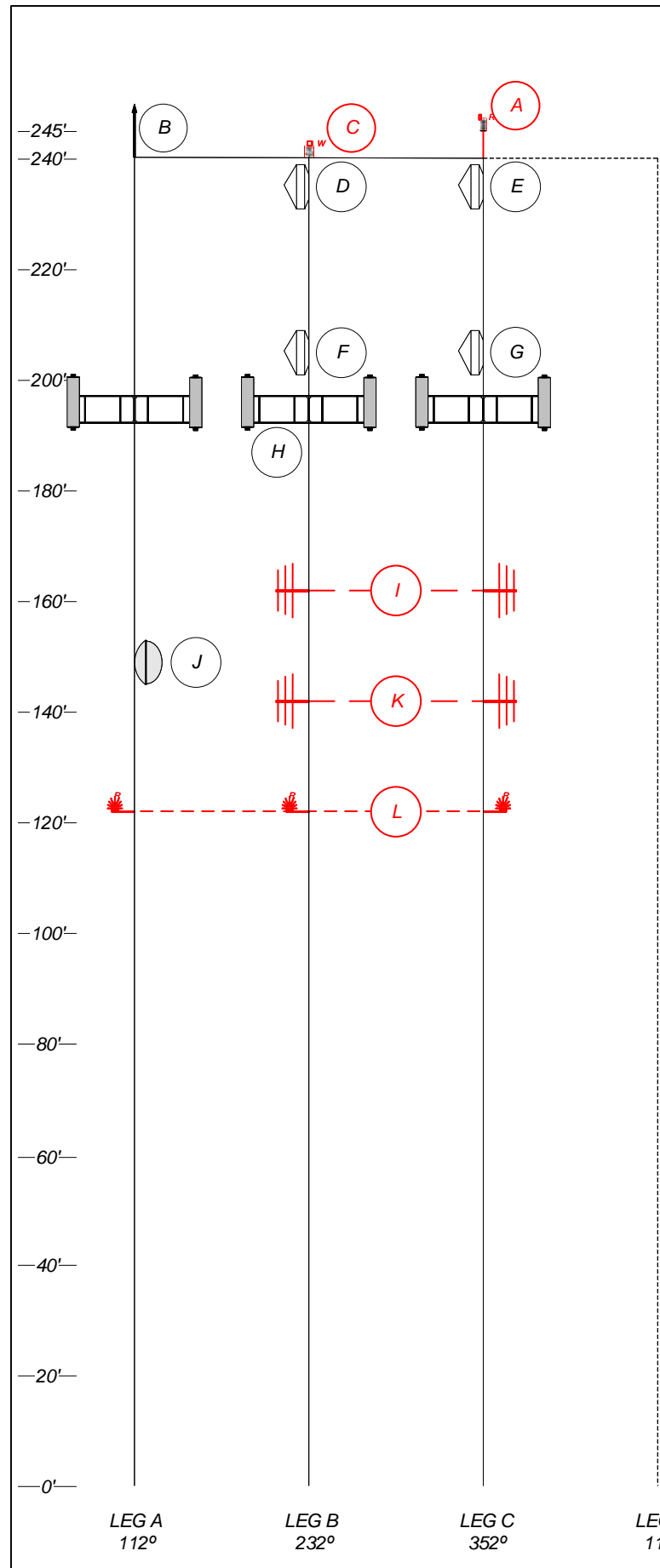
STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

SITE NAME	COUNTY	FINANCIAL PROJECT ID
WILDWOOD	SUMTER	424401-1-52-01

WILDWOOD COMM  
BLDG PLANS

SHEET NO.

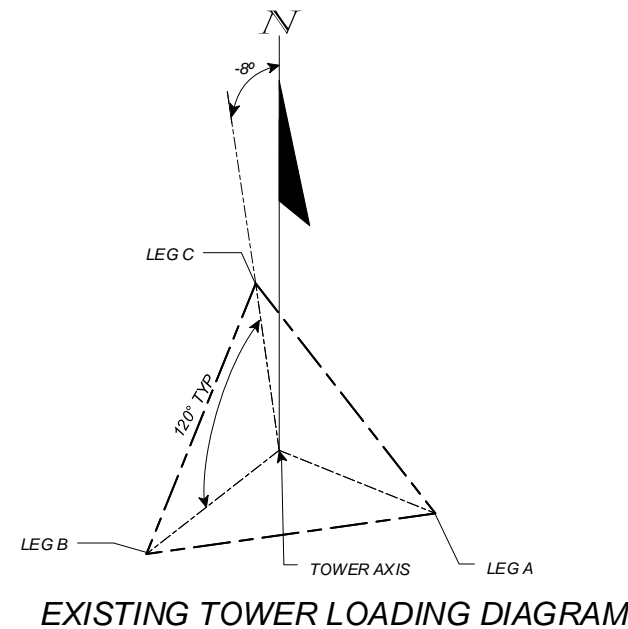
K-3



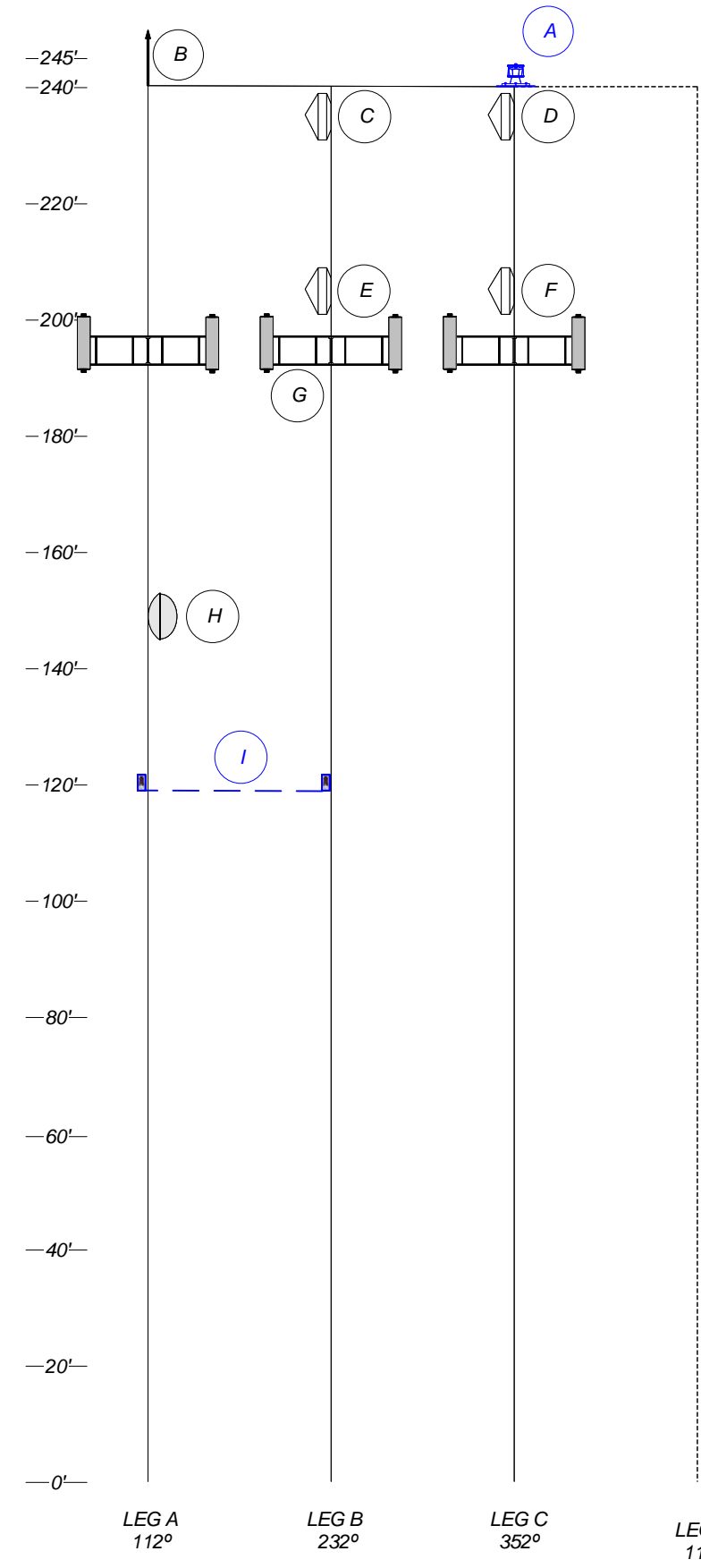
ID	MODEL	LEG/FACE	MNT. HGT.	TX LINE	AZIM.	NOTES
A	RED BEACON	C	245' BASE	-	-	1
B	AIR TERMINAL	A	240' BASE	-	-	-
C	WHITE STROBE	B	240' BASE	-	-	1
D	PA8-65	B	235' (C.L.)	WE-65	-	-
E	PA8-65	C	235' (C.L.)	WE-65	-	-
F	PA8-65	B	205' (C.L.)	WE-65	-	-
G	PA8-65	C	205' (C.L.)	WE-65	-	-
H	(6) EMS RR33-20-XXDPL4 METROPCS (F.L.)	A,B,C	196' (C.L.)	1-5/8"	-	-
I	DB-230-2	B-C	162' (C.L.)	1/2"	-	2
J	PAR8-65	A	149' (C.L.)	EW-63	-	-
K	DB-230-2	B-C	142' (C.L.)	1/2"	-	2
L	SIDE MARKERS	A,B,C	122' BASE	-	-	1

NOTES:

1. REMOVE AND PROPERLY DISPOSE OF THE TOWER OBSTRUCTION LIGHTING SYSTEM, CONDUIT, AND ASSOCIATED MOUNTING HARDWARE PER THESE PLANS. THE STROBE SHALL BE PRESERVED AND DELIVERED TO THE MAINTENANCE CONTRACTOR IN ACCORDANCE WITH SHEET K-2 REMOVAL NOTE 1.
2. VENDOR SHALL REMOVE AND PROPERLY DISPOSE OF THE ANTENNAS, ASSOCIATED COAXIAL TRANSMISSION LINES, MOUNTING HARDWARE, AND SPDS.
3. RESTORE SITE COMPOUND PER THESE PLANS.



EXISTING TOWER LOADING DIAGRAM



ID	MODEL	LEG/FACE	MNT. HGT.	TX LINE	AZIM.	NOTES
A	TECHNOSTROBE DUAL LED FLASH HEAD	C	245' BASE	CONDUIT	-	1
B	AIR TERMINAL	A	240' BASE	-	-	-
C	PA8-65	B	235' (C.L.)	WE-65	-	-
D	PA8-65	C	235' (C.L.)	WE-65	-	-
E	PA8-65	B	205' (C.L.)	WE-65	-	-
F	PA8-65	C	205' (C.L.)	WE-65	-	-
G	(6) EMS RR33-20-XXDPL4 METROPCS (F.L.)	A,B,C	196' (C.L.)	1-5/8"	-	-
H	PAR8-65	A	149' (C.L.)	EW-63	-	-
I	(2) LED SIDE MARKERS	A, B	122' BASE	SAME CONDUIT	-	1

NOTES:

1. THE VENDOR SHALL INSTALL THE NEW TECHNOSTROBE E1-LED-B-HYBRID-48VDC-SNMP-2M-C-APT-DS-G5 TOWER LIGHTING SYSTEM IN ACCORDANCE WITH SHEET A-3.

PROPOSED TOWER LOADING DIAGRAM

CONTRACT PLANS RECORD					
DATE	REV.	DESCRIPTION	DATE	REV.	DESCRIPTION

**FLORIDA DEPARTMENT OF TRANSPORTATION**  
 605 SUWANNEE ST. MS 90  
 TALLAHASSEE, FL 32399-0450  
 PH. (850)-410-5600  
 FAX. (850)-410-5501

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
SITE NAME	COUNTY	FINANCIAL PROJECT ID
WILDWOOD	SUMTER	424401-1-52-01

**WILDWOOD  
TOWER LOADING  
DIAGRAM**

SHEET NO.  
K-4

**STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION**

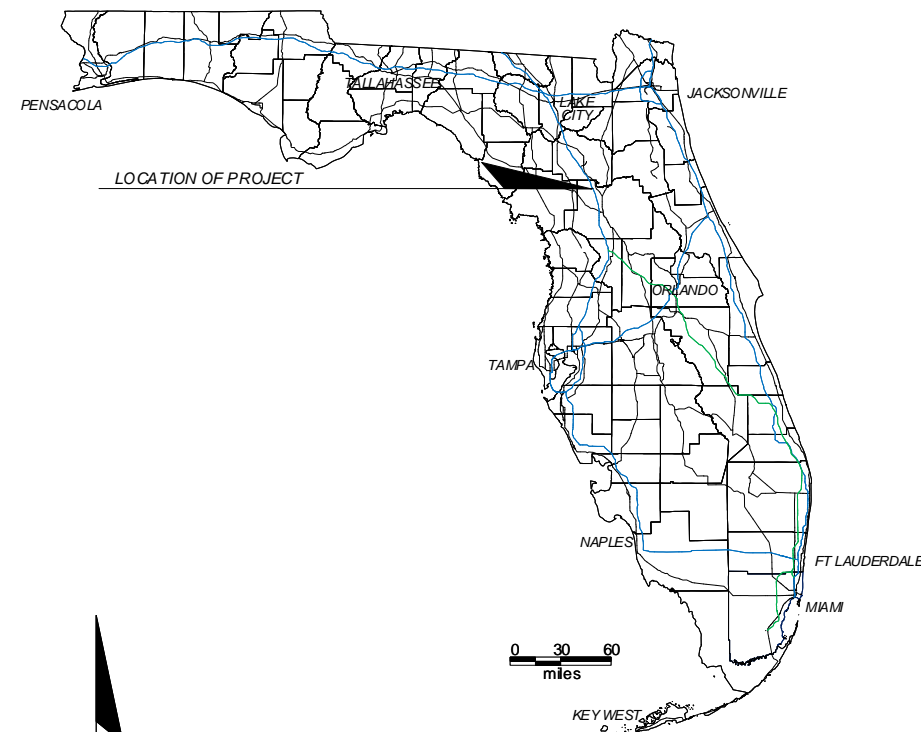
**APPENDIX L**

FINANCIAL PROJECT ID 424401-1-52-01  
MARION COUNTY  
CR 318 (5-5490) LED TOWER OBSTRUCTION LIGHTING UPGRADE

**INTELLIGENT TRANSPORTATION SYSTEMS PLANS**

**INDEX OF PLANS**

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	CR 318 REMOVAL AND INSTALLATION NOTES
L-3	CR 318 FDOT COMMUNICATIONS BUILDING DETAIL
L-4	CR 318 TOWER LOADING DIAGRAM



TOWER SITE ADDRESS:  
CR 318  
7426 W. HIGHWAY 318  
ORANGE LAKE, FL 32686  
LATITUDE: 29-24-23.5 N (NAD 83)  
LONGITUDE: 82-14-47.6 W




CR 318 TOWER SITE

NOTE: THE SCALE OF THESE PLANS MAY  
HAVE CHANGED DUE TO REPRODUCTION.

**FLORIDA DEPARTMENT OF  
TRANSPORTATION  
LED TOWER OBSTRUCTION LIGHTING  
UPGRADE PROJECT**

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS (CURRENT EDITION),  
AND STANDARD SPECIFICATIONS FOR ROAD AND  
BRIDGE CONSTRUCTION (CURRENT EDITION),  
AS AMENDED BY CONTRACT DOCUMENTS.

FDOT PROJECT MANAGER: RANDY PIERCE

CONTRACT PLANS RECORD						 FLORIDA DEPARTMENT OF TRANSPORTATION 605 SUWANNEE ST. MS 90 TALLAHASSEE, FL 32399-0450 PH. (850)-410-5600 FAX. (850)-410-5501	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CR 318 KEY SHEET	SHEET NO. L-1
DATE	REV.	DESCRIPTION	DATE	REV.	DESCRIPTION		SITE NAME	COUNTY	FINANCIAL PROJECT ID		
						CR 318	MARION	424401-1-52-01			

**REMOVAL NOTES:**

1. THE VENDOR SHALL REMOVE THE OLD OBSTRUCTION LIGHTING SYSTEM, INCLUDING BUT NOT LIMITED TO, POWER SUPPLIES, CONTROLLERS, SPDS, CONDUITS, TOWER LIGHT PHOTOCELL, AND ALL ASSOCIATED ELECTRICAL AND GROUNDING CONDUCTORS. THE VENDOR SHALL LEAVE THE CIRCUIT BREAKER IN PLACE AND SWITCH IT TO THE "OFF" POSITION. THE VENDOR SHALL DELIVER THE OLD TOWER LIGHT CONTROLLER AND BEACON TO THE MAINTENANCE CONTRACTOR ON SITE, AND PROPERLY DISPOSE OF THE REMAINING MATERIALS.

THE VENDOR SHALL PATCH ALL WALL PENETRATIONS WITH AN APPROPRIATE MORTAR MIX AND SHALL APPROPRIATELY PLUG ALL OPENINGS TO ELECTRICAL BOXES THAT ARE A RESULT OF CONDUIT REMOVAL WITH METALLIC PLUGS.

2. THE VENDOR SHALL DISCONNECT AND PROPERLY REMOVE AND DISPOSE OF THE DB-230 ANTENNAS LABELED "H" AND "I" AND THE ASSOCIATED TRANSMISSION LINES AND ANTENNA MOUNTS ON THE EXISTING TOWER LOADING DETAIL ON SHEET L-4. THE VENDOR SHALL REMOVE AND PROPERLY DISPOSE OF THE TRANSMISSION LINE SPDS LOCATED INSIDE THE COMMUNICATIONS SHELTER UPON THE TRANSMISSION LINES ENTERING THE SHELTER, AND RETURN TO THE FDOT. THE VENDOR SHALL INSTALL NEW ENTRY PORT BOOTS ON THE BULKHEAD.

**CR 318 INSTALLATION NOTES:**

1. THE VENDOR SHALL FURNISH AND INSTALL A NEW -48 VDC LED DUAL DAYTIME/NIGHT-TIME TOWER OBSTRUCTION LIGHTING SYSTEM IN ACCORDANCE WITH THESE PLANS. THE TOWER OBSTRUCTION LIGHTING SYSTEM SHALL BE TECHNOSTROBE E1-LED-B-HYBRID-48VDC-SNMP-2M-C-APT-DS-G5 DUAL LED FLASH HEAD. TOWER LIGHTS TO BE INSTALLED ARE LABELED "A" AND "G" ON THE PROPOSED TOWER LOADING DETAIL ON SHEET L-4.

THE TOWER OBSTRUCTION LIGHTING SYSTEM AND CONDUIT SHALL BE MOUNTED TO THE TOWER AND HORIZONTAL TRANSMISSION LINE BRIDGE WITH GALVANIZED OR STAINLESS STEEL BOLT-ON HARDWARE. SNAP-ON HANGERS ARE NOT PERMITTED. ALL EXTERIOR TOWER LIGHTING CABLES SHALL BE INSTALLED IN APPROPRIATELY SIZED RIGID GALVANIZED STEEL (RGS) CONDUIT.

THE TOWER LIGHT CONTROLLER SHALL BE MOUNTED INSIDE THE COMMUNICATIONS SHELTER. SEE SHEET L-3.

2. THE VENDOR SHALL FURNISH AND INSTALL NEW ELECTRICAL METALLIC TUBING (EMT) CONDUIT INSIDE THE COMMUNICATIONS SHELTER BETWEEN THE TOWER LIGHT CONTROLLER AND THE -48VDC DISTRIBUTION RACK. THE VENDOR SHALL FURNISH AND INSTALL NEW EMT CONDUIT FOR THE PHOTOCELL AND CONTROL WIRING BETWEEN THE TOWER LIGHT CONTROLLER AND ENTRY PORT INSIDE THE SHELTER, AND IT SHALL BE LOCATED SO AS NOT TO OBSCURE ANY PORTION OF AN ELECTRICAL OUTLET OR JUNCTION BOX, PER NEC, ITEM 11, 'APPLICABLE PUBLICATIONS AND STANDARDS' OR OBSTRUCT ANY EMPTY ENTRY PORTS. THE VENDOR SHALL REUSE THE EXISTING EXTERIOR PHOTOCELL METALLIC CONDUIT. THE VENDOR SHALL TERMINATE THE EXTERIOR EMT CONDUIT AT BOTH ENDS WITH AN END BUSHING.

3. THE VENDOR SHALL INSTALL THE LOAD CONDUCTORS BETWEEN THE TOWER LIGHTING SYSTEM, AND THE -48VDC DISTRIBUTION PANEL, IN ACCORDANCE WITH SHEET A-4. THE 10A BREAKER MODEL AIRPAX MODEL: LML1-1RLS4R-29954-10

4. THE VENDOR SHALL CONFIGURE THE TECHNOSTROBE TOWER LIGHT CONTROLLER WITH THE FOLLOWING NETWORK INFORMATION:

IP ADDRESS: 172.16.94.14  
SUBNET MASK: 255.255.254.0  
DEFAULT GATEWAY: 172.16.94.19

5. THE VENDOR SHALL CONFIGURE THE TECHNOSTROBE TOWER LIGHT CONTROLLER WITH THE FOLLOWING SNMP INFORMATION:

STATE: ENABLED  
READ COMMUNITY: PUBLIC  
WRITE COMMUNITY: PUBLIC  
SYSTEM NAME: CR 318 TECHNOSTROBE  
SYSTEM DESCRIPTION: CR 318 TECHNOSTROBE TOWER LIGHTS  
SYSTEM LOCATION: CR 318  
TRAP STATE: CR 318  
TRAPS PRIMARY DESTINATION: 172.16.2.21  
TRAPS SECONDARY DESTINATION: 172.16.16.21

6. THE VENDOR SHALL NOTIFY THE FDOT UPON COMPLETION OF ALL TOWER OBSTRUCTION LIGHTING SYSTEM INSTALLATION WORK.

7. THE FDOT WILL INSPECT THE TOWER OBSTRUCTION LIGHTING SYSTEM INSTALLATION FOR COMPLIANCE WITH THESE SPECIFICATIONS.

8. THE FDOT WILL WITNESS COMMISSIONING AND TESTING OF THE NEW TOWER OBSTRUCTION LIGHTING SYSTEM AND NOTIFY THE VENDOR OF FINAL ACCEPTANCE.

**CONTRACT PLANS RECORD**

DATE	REV.	DESCRIPTION	DATE	REV.	DESCRIPTION



FLORIDA DEPARTMENT OF TRANSPORTATION  
 605 SUWANNEE ST. MS 90  
 TALLAHASSEE, FL 32399-0450  
 PH. (850)-410-5600  
 FAX. (850)-410-5501

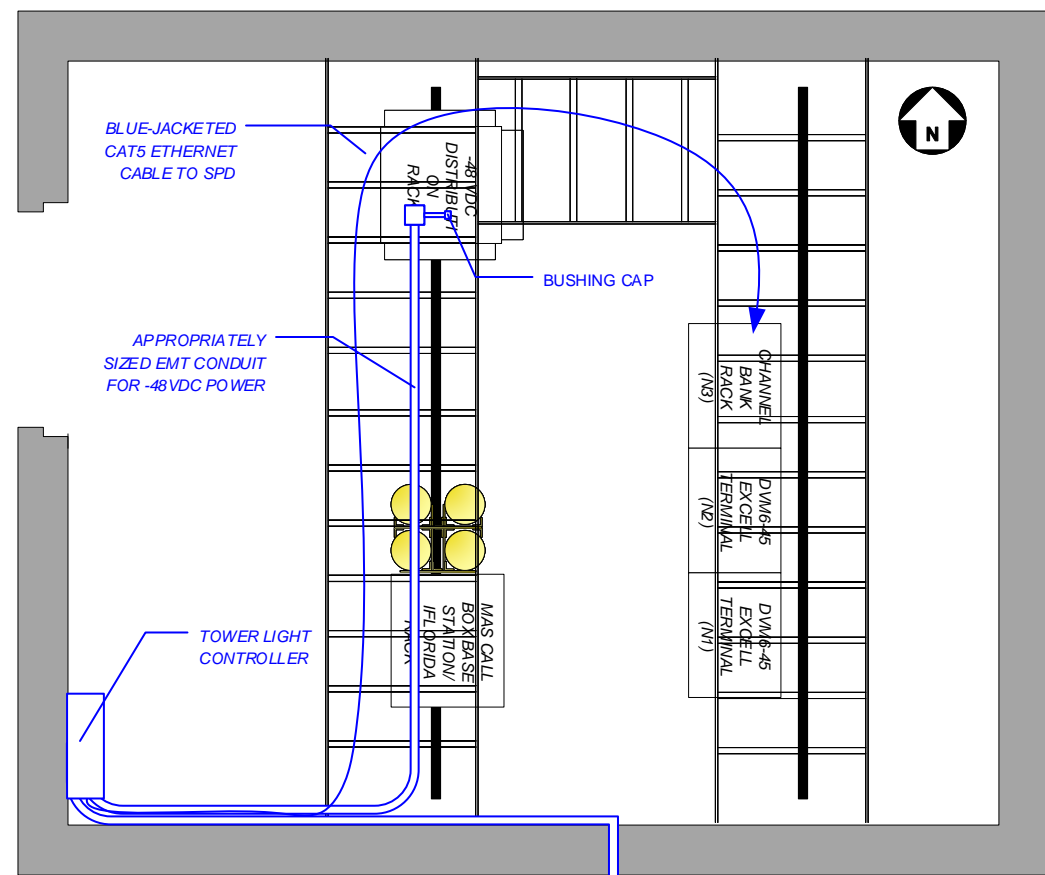
**STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION**

SITE NAME	COUNTY	FINANCIAL PROJECT ID
CR 318	MARION	424401-1-52-01

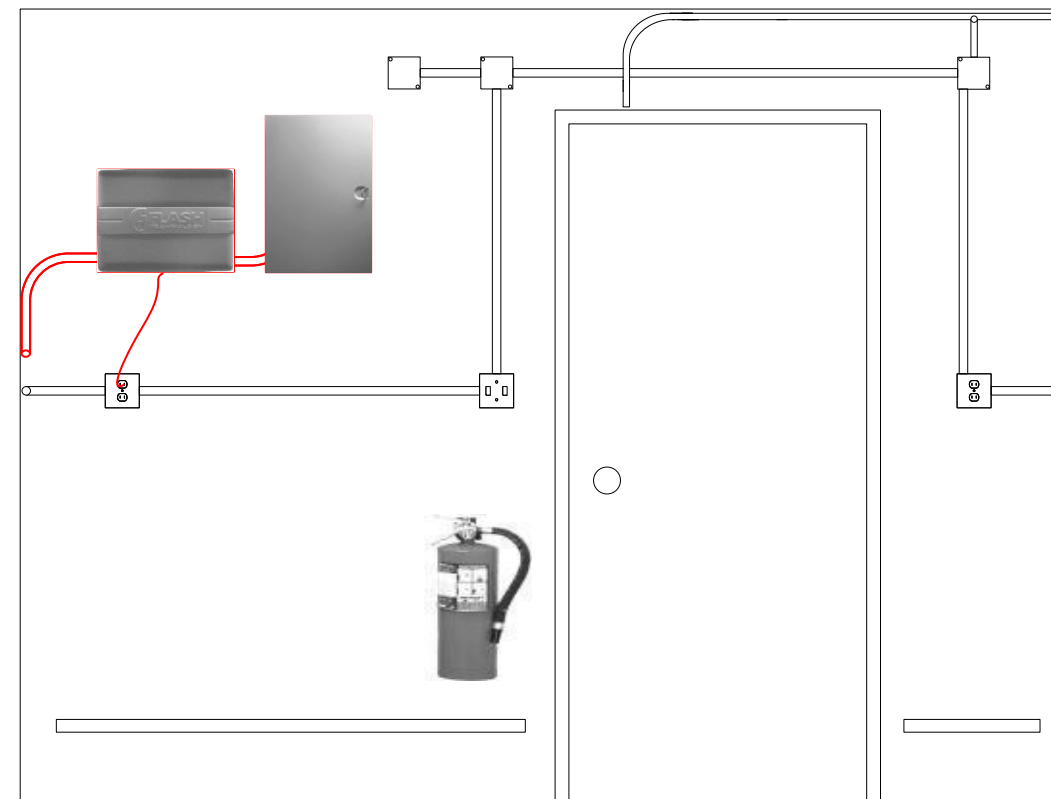
**CR 318  
 REMOVAL AND  
 INSTALLATION NOTES**

SHEET NO.

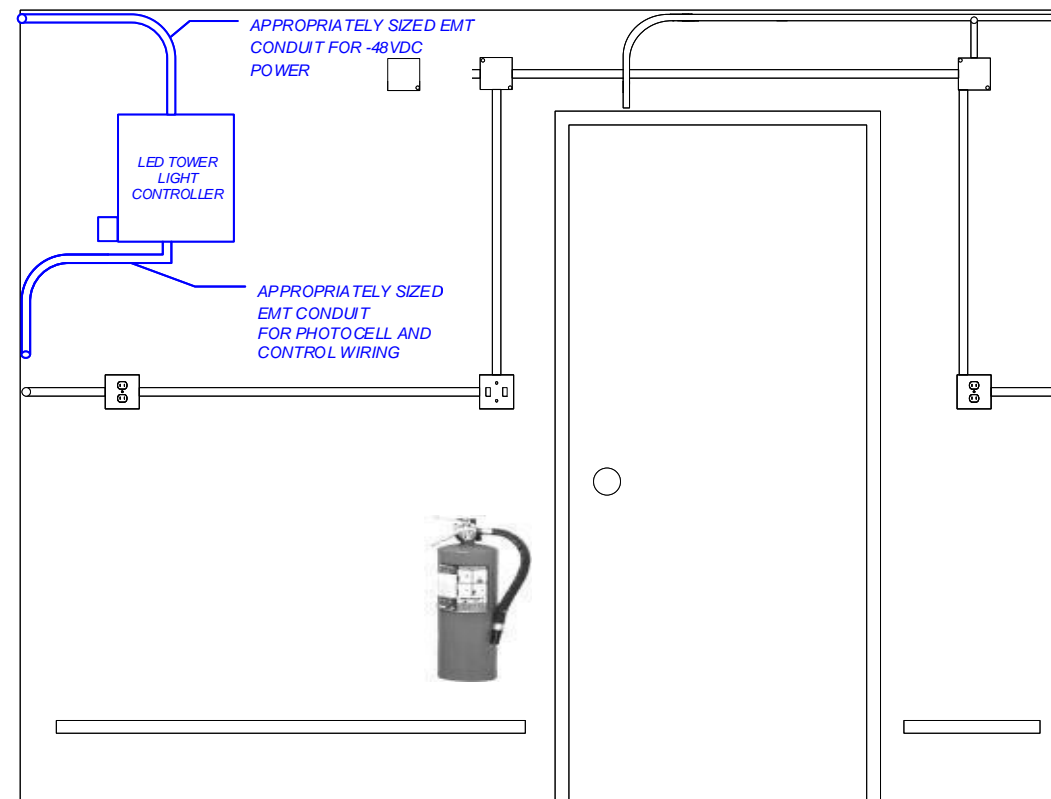
L-2



**SHELTER CABLETRAY PLAN**



**EXISTING INTERIOR WEST WALL**



**PROPOSED INTERIOR WEST WALL**

**NOTES**

1. THE APPROXIMATE LOCATION OF THE EQUIPMENT IS FOR DIAGRAMMATICAL PURPOSES ONLY. THE VENDOR IS RESPONSIBLE FOR DETERMINING THE BEST LOCATIONS FOR EQUIPMENT AND ALL ASSOCIATED CONDUITS AND MOUNTING AND GROUNDING HARDWARE. THE VENDOR SHALL SUBMIT DETAILED PLANS FOR APPROVAL BY THE FDOT.
2. THE VENDOR SHALL PATCH ALL WALL PENETRATIONS WITH AN APPROPRIATE MORTAR MIX AND SHALL APPROPRIATELY PLUG ALL OPENINGS TO ELECTRICAL BOXES THAT ARE A RESULT OF CONDUIT REMOVAL WITH METALLIC PLUGS.
3. THE VENDOR SHALL INSTALL THE NEW TECHNOSTROBE -48 VDC TOWER OBSTRUCTION LIGHTING SYSTEM MODEL E1-LED-B-HYBRID-48VDC-SNMP-2M-C-APT-DS-G5 DUAL LED FLASH HEAD WITH ASSOCIATED PHOTOCELL, SURGE PROTECTION, GROUNDING, AND CONDUIT.
4. THE VENDOR SHALL FURNISH AND INSTALL ONE (1) ETHERNET SURGE PROTECTIVE DEVICE (SPD), MTL-SURGE MODEL NUMBER ZB24540. THIS SPD SHALL BE MOUNTED ON THE DIN RAIL IN THE CHANNEL BANK RACK.
5. THE VENDOR SHALL INSTALL CUSTOM LENGTH BLUE-JACKETED CAT 5 CABLE FROM THE TECHNOSTROBE ETHERNET PORT TO THE NEWLY INSTALLED ETHERNET SPD IN THE CHANNEL BANK RACK, AND FROM THE SPD TO THE BPS 2000, PORT #22.

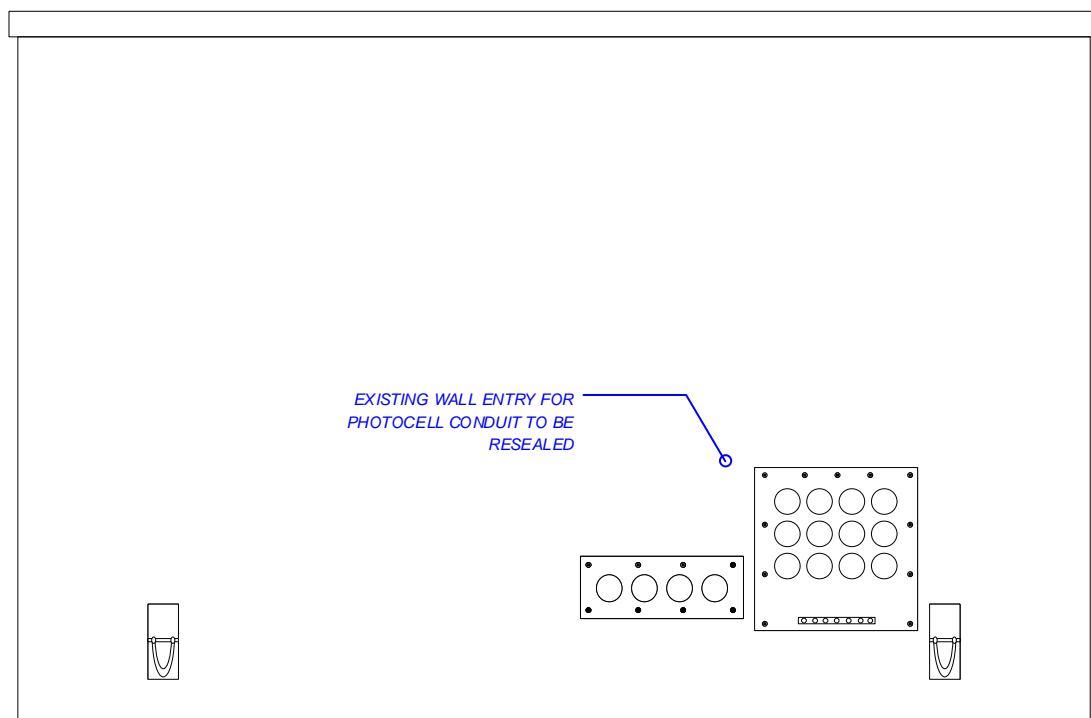
THE VENDOR SHALL ROUTE THE NEW BLUE-JACKETED CAT 5 ETHERNET CABLE ALONG THE OVERHEAD CABLE TRAYS, PARALLEL TO EXISTING ETHERNET CABLES TO THE CHANNEL BANK RACK. THE VENDOR SHALL INDEPENDENTLY SECURE THE ETHERNET CABLE TO THE OVERHEAD CABLE TRAYS WITH ZIP TIES OR LACING STRING, AT 36 IN. INTERVALS, MAXIMUM.

6. THE VENDOR SHALL MECHANICALLY GROUND THE TECHNOSTROBE TOWER LIGHT CONTROLLER TO THE GROUND HALO USING #6 AWG GREEN JACKETED CONDUCTOR. THE GROUND SHALL BE DOWNWARD COURSING, AND AS STRAIGHT AND SHORT AS POSSIBLE.

THE VENDOR SHALL CLEAN AND PREPARE ALL GROUND CONDUCTORS AND SURFACES PRIOR TO BONDS. ALL NON-CONDUCTING SURFACE COATINGS SHALL BE REMOVED BEFORE EACH CONNECTION IS MADE.

**LEGEND**

- EXISTING
- VENDOR FURNISHED AND INSTALLED
- TO BE REMOVED BY VENDOR



**EXTERIOR SOUTH WALL**

**CONTRACT PLANS RECORD**

DATE	REV.	DESCRIPTION	DATE	REV.	DESCRIPTION

**FDOT**  
 FLORIDA DEPARTMENT OF TRANSPORTATION  
 605 SUWANNEE ST. MS 90  
 TALLAHASSEE, FL 32399-0450  
 PH. (850)-410-5600  
 FAX. (850)-410-5501

**STATE OF FLORIDA**  
**DEPARTMENT OF TRANSPORTATION**

SITE NAME	COUNTY	FINANCIAL PROJECT ID
CR 318	MARION	424401-1-52-01

**CR 318 COMM BLDG**  
**PLANS**

SHEET NO.

L-3





**STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION**

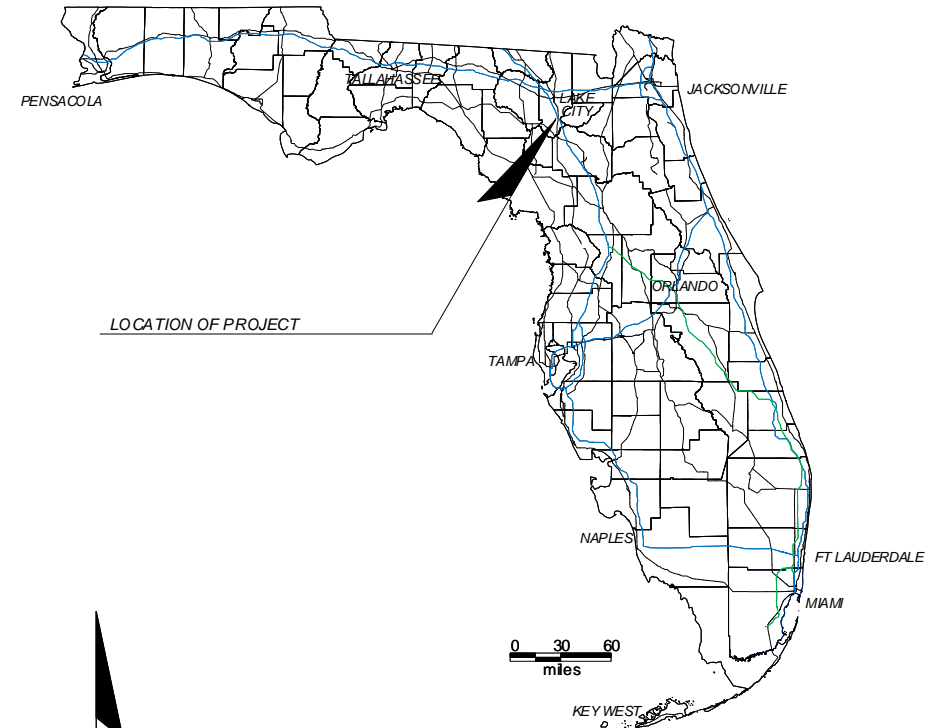
**APPENDIX M**

FINANCIAL PROJECT ID 424401-1-52-01  
COLUMBIA COUNTY  
US 41 (2-2516) LED TOWER OBSTRUCTION LIGHTING UPGRADE

**INTELLIGENT TRANSPORTATION SYSTEMS PLANS**

**INDEX OF PLANS**

SHEET NO.	SHEET DESCRIPTION
M-1	KEY SHEET
M-2	US 41 REMOVAL AND INSTALLATION NOTES
M-3	US 41 FDOT COMMUNICATIONS BUILDING DETAIL
M-4	US 41 TOWER LOADING DIAGRAM



US 41 TOWER SITE

TOWER SITE ADDRESS:  
US 41  
13934 S. US HIGHWAY 441  
LAKE CITY, FL 32024  
LATITUDE: 29-59-58.5 N (NAD 83)  
LONGITUDE: 82-35-53.7 W

NOTE: THE SCALE OF THESE PLANS MAY  
HAVE CHANGED DUE TO REPRODUCTION.

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS (CURRENT EDITION),  
AND STANDARD SPECIFICATIONS FOR ROAD AND  
BRIDGE CONSTRUCTION (CURRENT EDITION),  
AS AMENDED BY CONTRACT DOCUMENTS.

**FLORIDA DEPARTMENT OF  
TRANSPORTATION  
LED TOWER OBSTRUCTION LIGHTING  
UPGRADE PROJECT**

FDOT PROJECT MANAGER: RANDY PIERCE

CONTRACT PLANS RECORD					
DATE	REV.	DESCRIPTION	DATE	REV.	DESCRIPTION



FLORIDA DEPARTMENT OF TRANSPORTATION  
605 SUWANNEE ST. MS 90  
TALLAHASSEE, FL 32399-0450  
PH. (850)-410-5600  
FAX. (850)-410-5501

**STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION**

SITE NAME	COUNTY	FINANCIAL PROJECT ID
US 41	COLUMBIA	424401-1-52-01

**US 41  
KEY SHEET**

SHEET NO.

M-1

**REMOVAL NOTES:**

1. THE VENDOR SHALL REMOVE THE OLD OBSTRUCTION LIGHTING SYSTEM, INCLUDING BUT NOT LIMITED TO, POWER SUPPLIES, CONTROLLERS, SPDS, CONDUITS, TOWER LIGHT PHOTOCELL, AND ALL ASSOCIATED ELECTRICAL AND GROUNDING CONDUCTORS. THE VENDOR SHALL LEAVE THE CIRCUIT BREAKER IN PLACE AND SWITCH IT TO THE "OFF" POSITION. THE VENDOR SHALL DELIVER THE OLD TOWER LIGHT CONTROLLER AND BEACON TO THE MAINTENANCE CONTRACTOR ON SITE, AND PROPERLY DISPOSE OF THE REMAINING MATERIALS.

THE VENDOR SHALL PATCH ALL WALL PENETRATIONS WITH AN APPROPRIATE MORTAR MIX AND SHALL APPROPRIATELY PLUG ALL OPENINGS TO ELECTRICAL BOXES THAT ARE A RESULT OF CONDUIT REMOVAL WITH METALLIC PLUGS.

2. THE VENDOR SHALL DISCONNECT AND PROPERLY REMOVE AND DISPOSE OF THE ANTENNAS LABELED "H," "J," "K," "M," AND "N" AND THE ASSOCIATED TRANSMISSION LINES AND ANTENNA MOUNTS ON THE EXISTING TOWER LOADING DETAIL ON SHEET M-4. THE VENDOR SHALL REMOVE AND PROPERLY DISPOSE OF THE TRANSMISSION LINE SPDS LOCATED INSIDE THE COMMUNICATIONS SHELTER UPON THE TRANSMISSION LINES ENTERING THE SHELTER, AND RETURN TO THE FDOT. THE VENDOR SHALL INSTALL NEW ENTRY PORT BOOTS ON THE BULKHEAD.

US 41 INSTALLATION NOTES:

1. THE VENDOR SHALL FURNISH AND INSTALL A NEW -48 VDC LED DUAL DAYTIME/NIGHT-TIME TOWER OBSTRUCTION LIGHTING SYSTEM IN ACCORDANCE WITH THESE PLANS. THE TOWER OBSTRUCTION LIGHTING SYSTEM SHALL BE TECHNOSTROBE E1-LED-B-HYBRID-48VDC-SNMP-2M-C-APT-DS-G5 DUAL LED FLASH HEAD. TOWER LIGHTS TO BE INSTALLED ARE LABELED "B" AND "H" ON THE PROPOSED TOWER LOADING DETAIL ON SHEET M-4.

THE TOWER OBSTRUCTION LIGHTING SYSTEM AND CONDUIT SHALL BE MOUNTED TO THE TOWER AND HORIZONTAL TRANSMISSION LINE BRIDGE WITH GALVANIZED OR STAINLESS STEEL BOLT-ON HARDWARE. SNAP-ON HANGERS ARE NOT PERMITTED. ALL EXTERIOR TOWER LIGHTING CABLES SHALL BE INSTALLED IN APPROPRIATELY SIZED RIGID GALVANIZED STEEL (RGS) CONDUIT.

THE TOWER LIGHT CONTROLLER SHALL BE MOUNTED INSIDE THE COMMUNICATIONS SHELTER. SEE SHEET M-3.

2. THE VENDOR SHALL FURNISH AND INSTALL NEW ELECTRICAL METALLIC TUBING (EMT) CONDUIT INSIDE THE COMMUNICATIONS SHELTER BETWEEN THE TOWER LIGHT CONTROLLER AND THE -48VDC DISTRIBUTION RACK. THE VENDOR SHALL FURNISH AND INSTALL NEW EMT CONDUIT FOR THE PHOTOCELL AND CONTROL WIRING BETWEEN THE TOWER LIGHT CONTROLLER AND ENTRY PORT INSIDE THE SHELTER, AND IT SHALL BE LOCATED SO AS NOT TO OBSCURE ANY PORTION OF AN ELECTRICAL OUTLET OR JUNCTION BOX, PER NEC, ITEM 11, 'APPLICABLE PUBLICATIONS AND STANDARDS' OR OBSTRUCT ANY EMPTY ENTRY PORTS. THE VENDOR SHALL REUSE THE EXISTING EXTERIOR PHOTOCELL METALLIC CONDUIT. THE VENDOR SHALL TERMINATE THE EXTERIOR EMT CONDUIT AT BOTH ENDS WITH AN END BUSHING.

3. THE VENDOR SHALL INSTALL THE LOAD CONDUCTORS BETWEEN THE TOWER LIGHTING SYSTEM, AND THE -48VDC DISTRIBUTION PANEL, IN ACCORDANCE WITH SHEET A-4. THE 10A BREAKER MODEL AIRPAX MODEL: LML1-1RLS4R-29954-10

4. THE VENDOR SHALL CONFIGURE THE TECHNOSTROBE TOWER LIGHT CONTROLLER WITH THE FOLLOWING NETWORK INFORMATION:

IP ADDRESS: 172.16.90.14

SUBNET MASK: 255.255.254.0

DEFAULT GATEWAY: 172.16.90.19

5. THE VENDOR SHALL CONFIGURE THE TECHNOSTROBE TOWER LIGHT CONTROLLER WITH THE FOLLOWING SNMP INFORMATION:

STATE: ENABLED

READ COMMUNITY: PUBLIC

WRITE COMMUNITY: PUBLIC

SYSTEM NAME: US 41 TECHNOSTROBE

SYSTEM DESCRIPTION: US 41 TECHNOSTROBE TOWER LIGHTS

SYSTEM LOCATION: US 41

TRAP STATE: US 41

TRAPS PRIMARY DESTINATION: 172.16.2.21

TRAPS SECONDARY DESTINATION: 172.16.16.21

6. THE VENDOR SHALL NOTIFY THE FDOT UPON COMPLETION OF ALL TOWER OBSTRUCTION LIGHTING SYSTEM INSTALLATION WORK.

7. THE FDOT WILL INSPECT THE TOWER OBSTRUCTION LIGHTING SYSTEM INSTALLATION FOR COMPLIANCE WITH THESE SPECIFICATIONS.

8. THE FDOT WILL WITNESS COMMISSIONING AND TESTING OF THE NEW TOWER OBSTRUCTION LIGHTING SYSTEM AND NOTIFY THE VENDOR OF FINAL ACCEPTANCE.

**CONTRACT PLANS RECORD**

DATE	REV.	DESCRIPTION	DATE	REV.	DESCRIPTION



FLORIDA DEPARTMENT OF TRANSPORTATION  
605 SUWANNEE ST. MS 90  
TALLAHASSEE, FL 32399-0450  
PH. (850)-410-5600  
FAX. (850)-410-5501

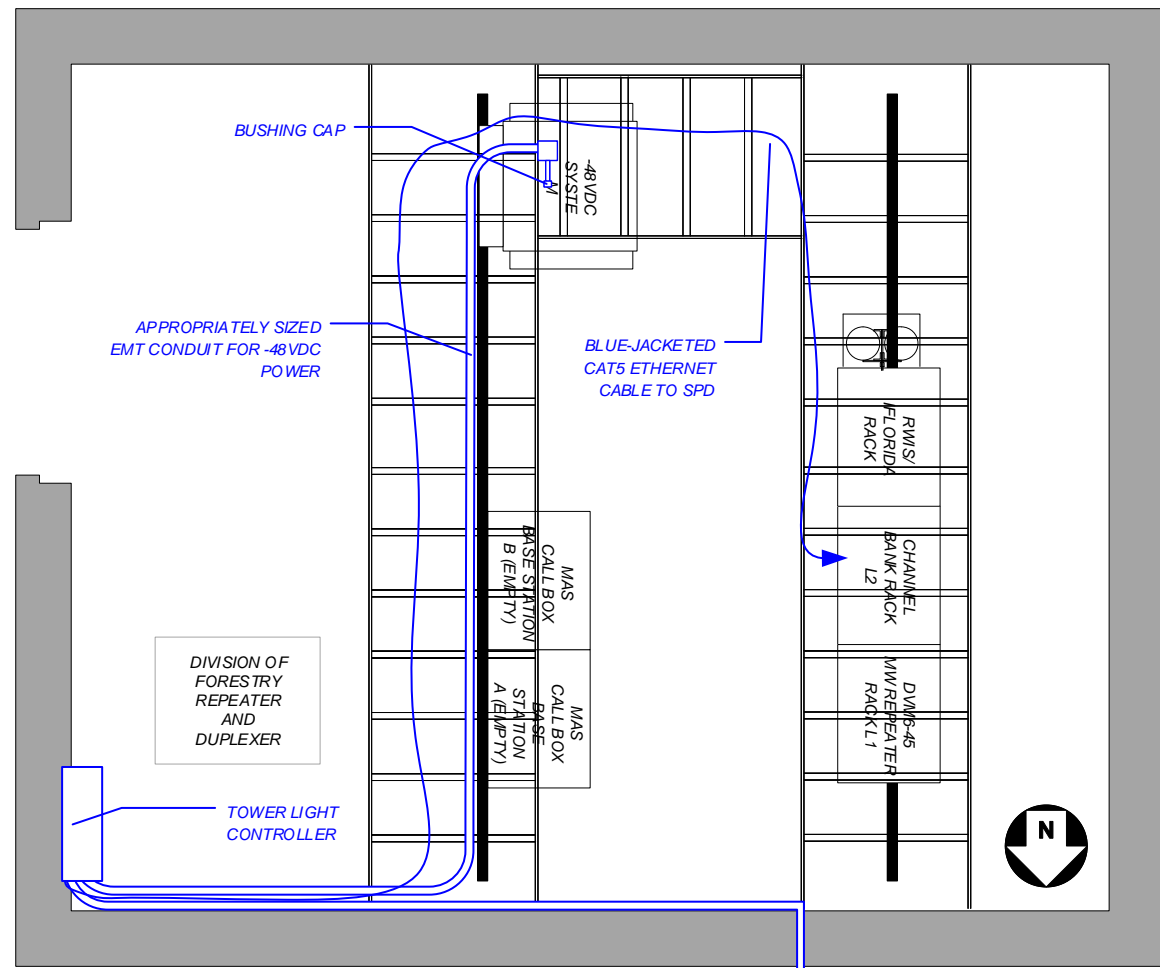
**STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION**

SITE NAME	COUNTY	FINANCIAL PROJECT ID
US 41	COLUMBIA	424401-1-52-01

*US 41  
REMOVAL AND  
INSTALLATION NOTES*

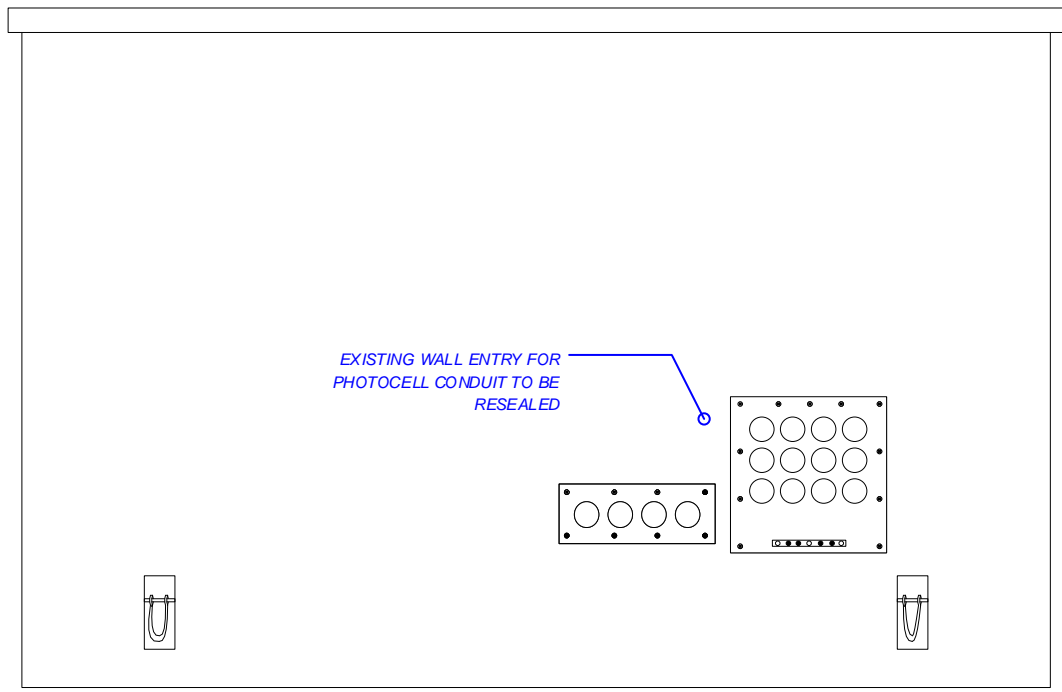
SHEET NO.

M-2

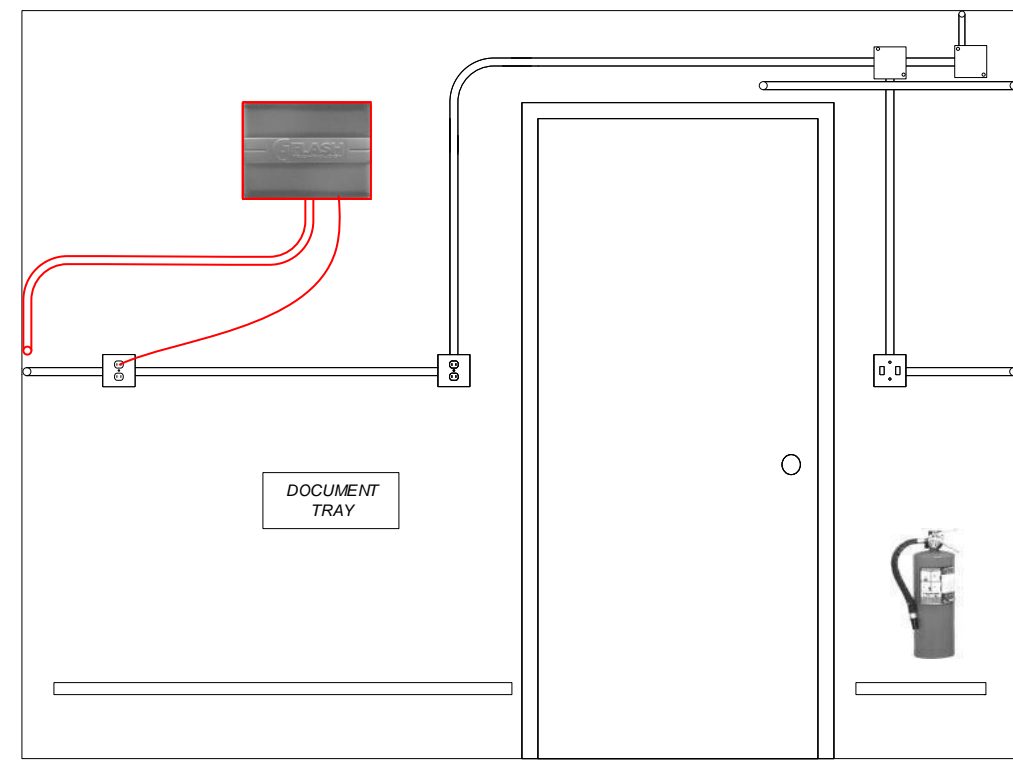


NEW PHOTOCELL LOCATED ON VERTICAL TRANSMISSION LINE LADDER AND REUSE THE EXISTING CONDUIT IF SERVICABLE

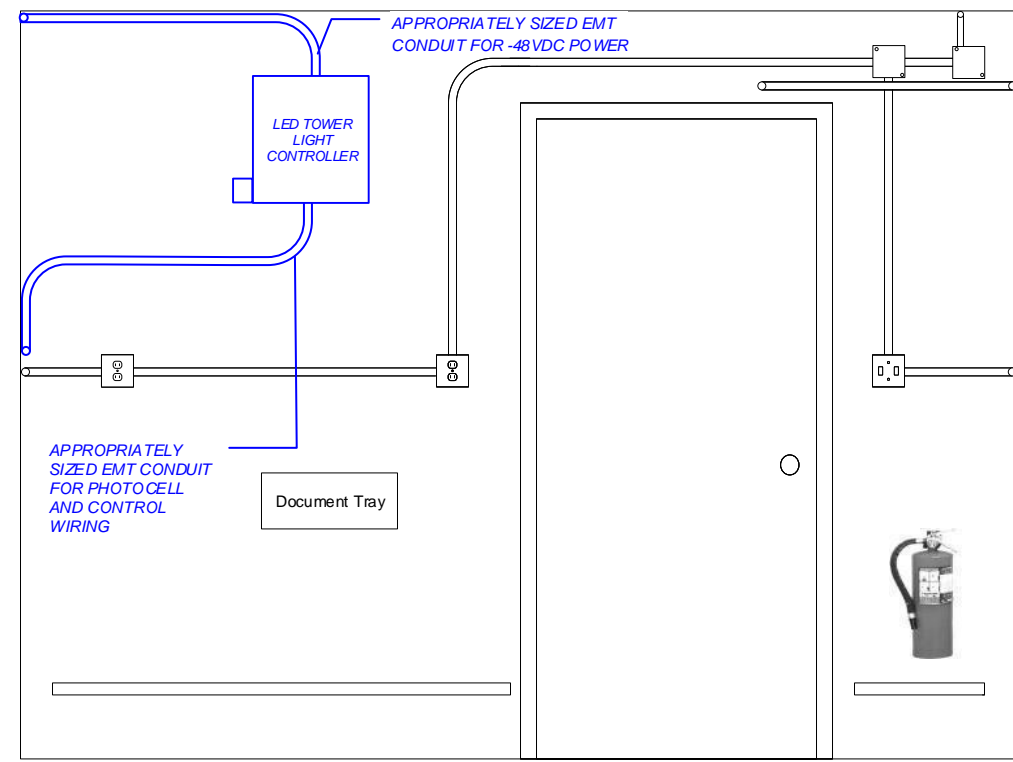
**SHELTER CABLETRAY PLAN**



**EXTERIOR NORTH WALL**



**EXISTING INTERIOR EAST WALL**



**PROPOSED INTERIOR EAST WALL**

**NOTES**

1. THE APPROXIMATE LOCATION OF THE EQUIPMENT IS FOR DIAGRAMMATICAL PURPOSES ONLY. THE VENDOR IS RESPONSIBLE FOR DETERMINING THE BEST LOCATIONS FOR EQUIPMENT AND ALL ASSOCIATED CONDUITS AND MOUNTING AND GROUNDING HARDWARE. THE VENDOR SHALL SUBMIT DETAILED PLANS FOR APPROVAL BY THE FDOT.
2. THE VENDOR SHALL PATCH ALL WALL PENETRATIONS WITH AN APPROPRIATE MORTAR MIX AND SHALL APPROPRIATELY PLUG ALL OPENINGS TO ELECTRICAL BOXES THAT ARE A RESULT OF CONDUIT REMOVAL WITH METALLIC PLUGS.
3. THE VENDOR SHALL INSTALL THE NEW TECHNOSTROBE -48 VDC TOWER OBSTRUCTION LIGHTING SYSTEM MODEL E1-LED-B-HYBRID-48VDC-SNMP-2M-C-APT-DS-G5 DUAL LED FLASH HEAD WITH ASSOCIATED PHOTOCELL, SURGE PROTECTION, GROUNDING, AND CONDUIT.
4. THE VENDOR SHALL FURNISH AND INSTALL ONE (1) ETHERNET SURGE PROTECTIVE DEVICE (SPD), MTL-SURGE MODEL NUMBER ZB24540. THIS SPD SHALL BE MOUNTED ON THE DIN RAIL IN THE CHANNEL BANK RACK.
5. THE VENDOR SHALL INSTALL CUSTOM LENGTH BLUE-JACKETED CAT 5 CABLE FROM THE TECHNOSTROBE ETHERNET PORT TO THE NEWLY INSTALLED ETHERNET SPD IN THE CHANNEL BANK RACK, AND FROM THE SPD TO THE BPS 2000, PORT #22.

THE VENDOR SHALL ROUTE THE NEW BLUE-JACKETED CAT 5 ETHERNET CABLE ALONG THE OVERHEAD CABLE TRAYS, PARALLEL TO EXISTING ETHERNET CABLES TO THE CHANNEL BANK RACK. THE VENDOR SHALL INDEPENDENTLY SECURE THE ETHERNET CABLE TO THE OVERHEAD CABLE TRAYS WITH ZIP TIES OR LACING STRING, AT 36 IN. INTERVALS, MAXIMUM.

6. THE VENDOR SHALL MECHANICALLY GROUND THE TECHNOSTROBE TOWER LIGHT CONTROLLER TO THE GROUND HALO USING #6 AWG GREEN JACKETED CONDUCTOR. THE GROUND SHALL BE DOWNWARD COURSING, AND AS STRAIGHT AND SHORT AS POSSIBLE.

THE VENDOR SHALL CLEAN AND PREPARE ALL GROUND CONDUCTORS AND SURFACES PRIOR TO BONDS. ALL NON-CONDUCTING SURFACE COATINGS SHALL BE REMOVED BEFORE EACH CONNECTION IS MADE.

**LEGEND**



CONTRACT PLANS RECORD					
DATE	REV.	DESCRIPTION	DATE	REV.	DESCRIPTION

**FDOT**  
 FLORIDA DEPARTMENT OF TRANSPORTATION  
 605 SUWANNEE ST. MS 90  
 TALLAHASSEE, FL 32399-0450  
 PH. (850)-410-5600  
 FAX. (850)-410-5501

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
SITE NAME	COUNTY	FINANCIAL PROJECT ID
US 41	COLUMBIA	424401-1-52-01

**US 41 COMM BLDG  
PLANS**

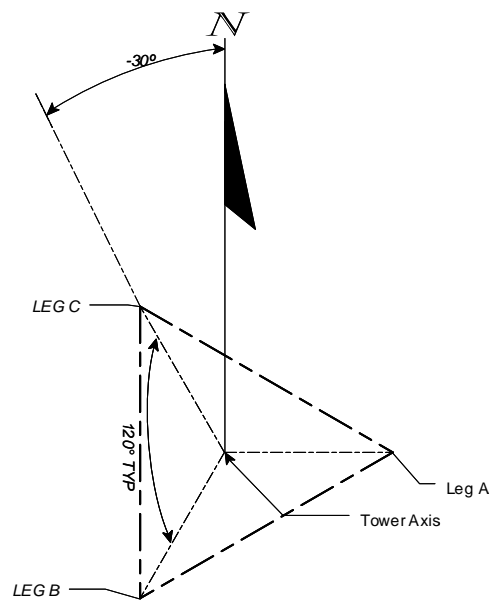
SHEET NO.  
M-3

https://skns-my.sharepoint.com/personal/sean\_kane\_atkins@fla DOT gov/Documents/Desktop/Multiple Tower Light Upgrade Plans 20190329.vsd

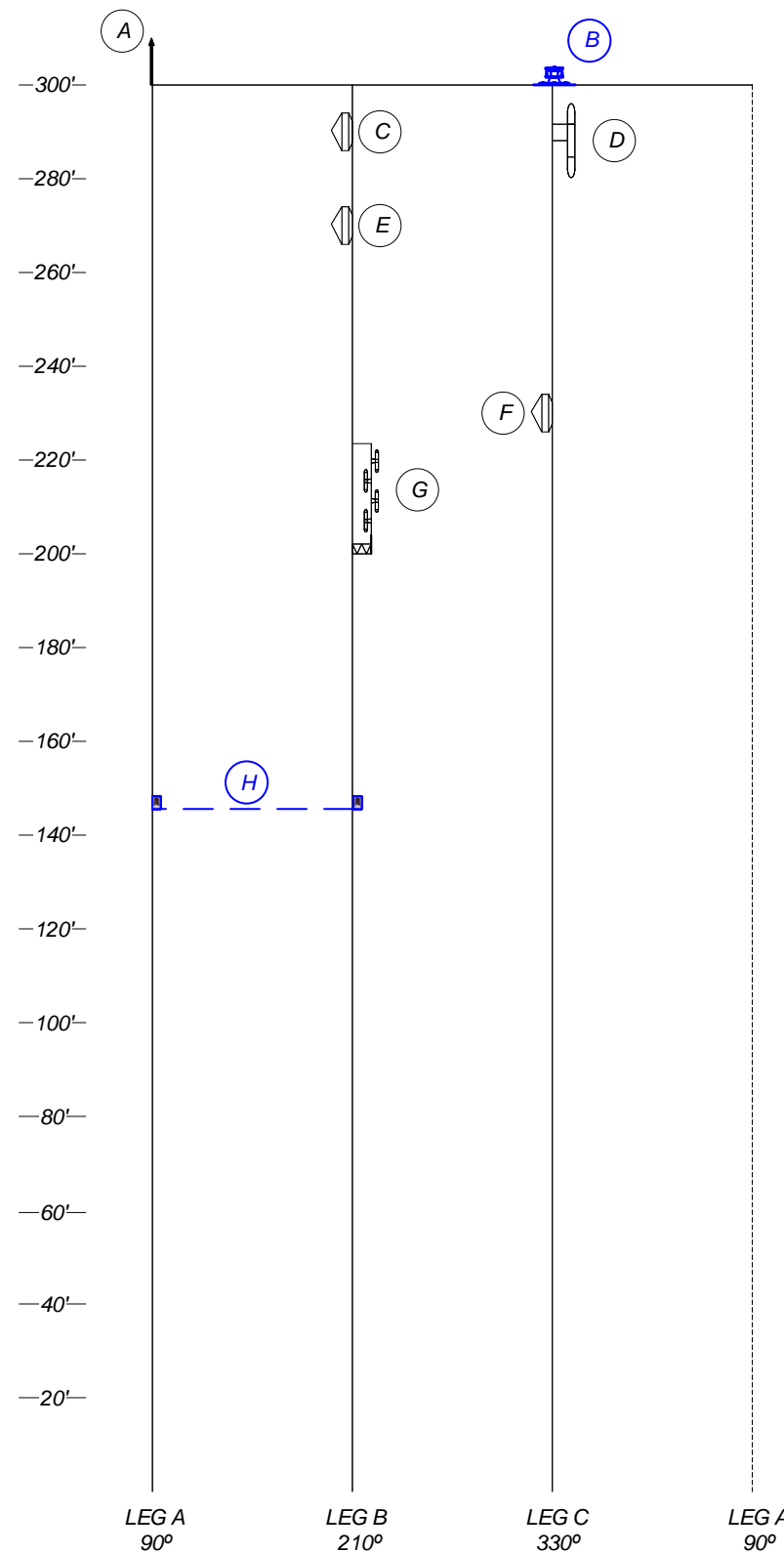
ID	MODEL	LEG/FACE	MNT. HGT.	TX LINE	AZIM.	NOTES
A	LIGHTNING ROD	A	300' BASE	-	-	-
B	WHITE STROBE	A	300' BASE	-	-	1
C	RED BEACON	C	305' BASE	-	-	1
D	PA8-65	B	290' (C.L.)	WE-65	-	-
E	COMPROD 530-70	C	290' (C.L.)	7/8	-	-
F	PA8-65	B	270' (C.L.)	WE-65	-	-
G	PA8-65	C	230' (C.L.)	WE-65	-	-
H	DB-230	A	220' (C.L.)	1/2"	-	2
I	DB-224	B	200' BASE	7/8"	-	-
J	DB-230	A	160' (C.L.)	1/2"	-	2
K	DB-230-2	B,C	160' (C.L.)	1/2"	-	2
L	(3) SIDE MARKERS	A,B,C	150' (C.L.)	-	-	1
M	DB-230-2	B,C	140' (C.L.)	1/2"	-	2
N	WEATHER SENSORS	B	30' BASE	RS-232	-	2

NOTES:

1. REMOVE AND PROPERLY DISPOSE OF THE TOWER OBSTRUCTION LIGHTING SYSTEM, CONDUIT, AND ASSOCIATED MOUNTING HARDWARE PER THESE PLANS. THE STROBE SHALL BE PRESERVED AND DELIVERED TO THE MAINTENANCE CONTRACTOR IN ACCORDANCE WITH SHEET M-2 REMOVAL NOTE 1.
2. VENDOR SHALL REMOVE AND PROPERLY DISPOSE OF THE ANTENNAS, ASSOCIATED COAXIAL TRANSMISSION LINES, MOUNTING HARDWARE, AND SPDS.
3. RESTORE SITE COMPOUND PER THESE PLANS.



EXISTING TOWER LOADING DIAGRAM



PROPOSED TOWER LOADING DIAGRAM

ID	MODEL	LEG/FACE	MNT. HGT.	TX LINE	AZIM.	NOTES
A	LIGHTNING ROD	A	300' BASE	-	-	-
B	TECHNOSTROBE DUAL LED FLASH HEAD	C	305' BASE	CONDUIT	-	1
C	PA8-65	B	290' (C.L.)	WE-65	-	-
D	COMPROD 530-70	C	290' (C.L.)	7/8	-	-
E	PA8-65	B	270' (C.L.)	WE-65	-	-
F	PA8-65	C	230' (C.L.)	WE-65	-	-
G	DB-224	B	200' BASE	7/8"	-	-
H	(2) LED SIDE MARKERS	A, B	150' (C.L.)	SAME CONDUIT	-	1

NOTES:

1. THE VENDOR SHALL INSTALL THE NEW TECHNOSTROBE E1-LED-B-HYBRID-48VDC-SNMP-2M-C-APT-DS-G5 TOWER LIGHTING SYSTEM IN ACCORDANCE WITH SHEET A-3.

CONTRACT PLANS RECORD					
DATE	REV.	DESCRIPTION	DATE	REV.	DESCRIPTION

**FLORIDA DEPARTMENT OF TRANSPORTATION**  
 605 SUWANNEE ST. MS 90  
 TALLAHASSEE, FL 32399-0450  
 PH. (850)-410-5600  
 FAX. (850)-410-5501

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
SITE NAME	COUNTY	FINANCIAL PROJECT ID
US 41	COLUMBIA	424401-1-52-01

US 41 TOWER LOADING DIAGRAM		SHEET NO.
		M-4

**STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION**

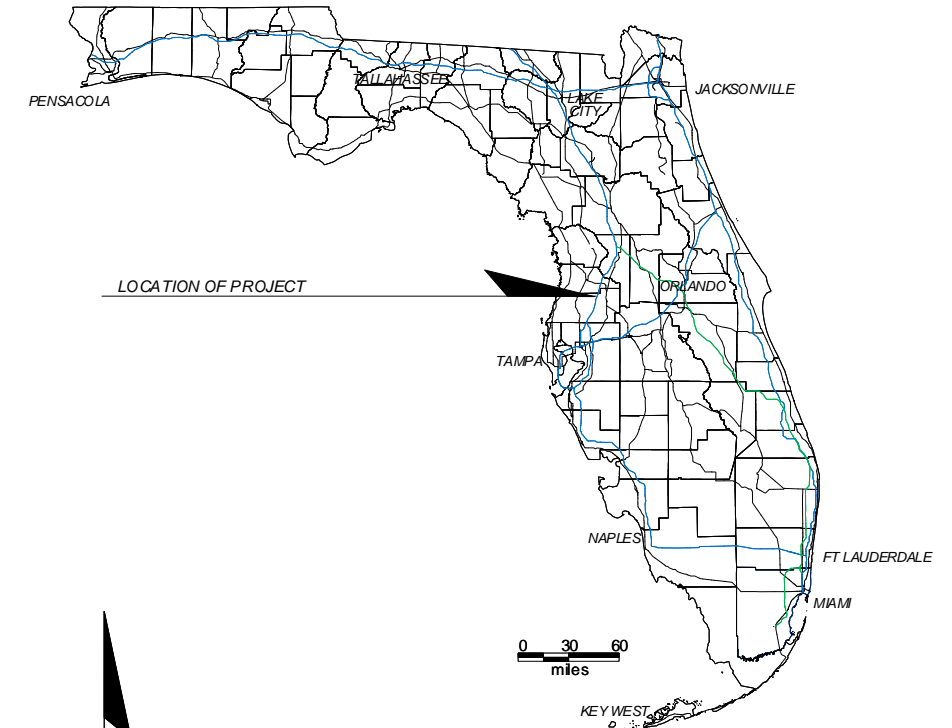
**APPENDIX N**

FINANCIAL PROJECT ID 424401-1-52-01  
PASCO COUNTY  
JESSAMINE (7-7337) LED TOWER OBSTRUCTION LIGHTING UPGRADE

**INTELLIGENT TRANSPORTATION SYSTEMS PLANS**

**INDEX OF PLANS**

SHEET NO.	SHEET DESCRIPTION
N-1	KEY SHEET
N-2	JESSAMINE REMOVAL AND INSTALLATION NOTES
N-3	JESSAMINE FDOT COMMUNICATIONS BUILDING DETAIL
N-4	JESSAMINE TOWER LOADING DIAGRAM



TOWER SITE ADDRESS:  
JESSAMINE  
32319 BLANTON RD.  
JESSAMINE, FL 33523  
LATITUDE: 28-25-13.0 N (NAD 83)  
LONGITUDE: 82-17-15.7 W




JESSAMINE TOWER SITE

NOTE: THE SCALE OF THESE PLANS MAY  
HAVE CHANGED DUE TO REPRODUCTION.

**FLORIDA DEPARTMENT OF  
TRANSPORTATION  
LED TOWER OBSTRUCTION LIGHTING  
UPGRADE PROJECT**

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS (CURRENT EDITION),  
AND STANDARD SPECIFICATIONS FOR ROAD AND  
BRIDGE CONSTRUCTION (CURRENT EDITION),  
AS AMENDED BY CONTRACT DOCUMENTS.

FDOT PROJECT MANAGER: RANDY PIERCE

CONTRACT PLANS RECORD						 <b>FLORIDA DEPARTMENT OF TRANSPORTATION</b> 605 SUWANNEE ST. MS 90 TALLAHASSEE, FL 32399-0450 PH. (850)-410-5600 FAX. (850)-410-5501	<b>STATE OF FLORIDA</b> <b>DEPARTMENT OF TRANSPORTATION</b>			<b>JESSAMINE</b> <b>KEY SHEET</b>	SHEET NO.
DATE	REV.	DESCRIPTION	DATE	REV.	DESCRIPTION		SITE NAME	COUNTY	FINANCIAL PROJECT ID		N-1
						JESSAMINE	PASCO	424401-1-52-01			

**REMOVAL NOTES:**

1. THE VENDOR SHALL REMOVE THE OLD OBSTRUCTION LIGHTING SYSTEM, INCLUDING BUT NOT LIMITED TO, POWER SUPPLIES, CONTROLLERS, SPDS, CONDUITS, TOWER LIGHT PHOTOCCELL, AND ALL ASSOCIATED ELECTRICAL AND GROUNDING CONDUCTORS. THE VENDOR SHALL LEAVE THE CIRCUIT BREAKER IN PLACE AND SWITCH IT TO THE "OFF" POSITION. THE VENDOR SHALL DELIVER THE OLD TOWER LIGHT CONTROLLER AND BEACON TO THE MAINTENANCE CONTRACTOR ON SITE, AND PROPERLY DISPOSE OF THE REMAINING MATERIALS.  
THE VENDOR SHALL PATCH ALL WALL PENETRATIONS WITH AN APPROPRIATE MORTAR MIX AND SHALL APPROPRIATELY PLUG ALL OPENINGS TO ELECTRICAL BOXES THAT ARE A RESULT OF CONDUIT REMOVAL WITH METALLIC PLUGS.
2. THE VENDOR SHALL DISCONNECT AND PROPERLY REMOVE AND DISPOSE OF THE DB-230 ANTENNAS LABELED "H" THROUGH "J" AND THE ASSOCIATED TRANSMISSION LINES AND ANTENNA MOUNTS ON THE EXISTING TOWER LOADING DETAIL ON SHEET N-4. THE VENDOR SHALL REMOVE AND PROPERLY DISPOSE OF THE TRANSMISSION LINE SPDS LOCATED INSIDE THE COMMUNICATIONS SHELTER UPON THE TRANSMISSION LINES ENTERING THE SHELTER, AND RETURN TO THE FDOT. THE VENDOR SHALL INSTALL NEW ENTRY PORT BOOTS ON THE BULKHEAD.

**TEMPLE TERRACE INSTALLATION NOTES:**

1. THE VENDOR SHALL FURNISH AND INSTALL A NEW -48 VDC LED DUAL DAYTIME/NIGHT-TIME TOWER OBSTRUCTION LIGHTING SYSTEM IN ACCORDANCE WITH THESE PLANS. THE TOWER OBSTRUCTION LIGHTING SYSTEM SHALL BE TECHNOSTROBE E1-LED-B-HYBRID-48VDC-SNMP-2M-C-APT-DS-G5 DUAL LED FLASH HEAD. TOWER LIGHTS TO BE INSTALLED ARE LABELED "A" AND "G" ON THE PROPOSED TOWER LOADING DETAIL ON SHEET N-4.  
THE TOWER OBSTRUCTION LIGHTING SYSTEM AND CONDUIT SHALL BE MOUNTED TO THE TOWER AND HORIZONTAL TRANSMISSION LINE BRIDGE WITH GALVANIZED OR STAINLESS STEEL BOLT-ON HARDWARE. SNAP-ON HANGERS ARE NOT PERMITTED. ALL EXTERIOR TOWER LIGHTING CABLES SHALL BE INSTALLED IN APPROPRIATELY SIZED RIGID GALVANIZED STEEL (RGS) CONDUIT.  
THE TOWER LIGHT CONTROLLER SHALL BE MOUNTED INSIDE THE COMMUNICATIONS SHELTER. SEE SHEET N-3.
2. THE VENDOR SHALL FURNISH AND INSTALL NEW ELECTRICAL METALLIC TUBING (EMT) CONDUIT INSIDE THE COMMUNICATIONS SHELTER BETWEEN THE TOWER LIGHT CONTROLLER AND THE -48VDC DISTRIBUTION RACK. THE VENDOR SHALL FURNISH AND INSTALL NEW EMT CONDUIT FOR THE PHOTOCCELL AND CONTROL WIRING BETWEEN THE TOWER LIGHT CONTROLLER AND ENTRY PORT INSIDE THE SHELTER, AND IT SHALL BE LOCATED SO AS NOT TO OBSCURE ANY PORTION OF AN ELECTRICAL OUTLET OR JUNCTION BOX, PER NEC, ITEM 11, 'APPLICABLE PUBLICATIONS AND STANDARDS' OR OBSTRUCT ANY EMPTY ENTRY PORTS. THE VENDOR SHALL REUSE THE EXISTING EXTERIOR PHOTOCCELL METALLIC CONDUIT. THE VENDOR SHALL TERMINATE THE EXTERIOR EMT CONDUIT AT BOTH ENDS WITH AN END BUSHING.
3. THE VENDOR SHALL INSTALL THE LOAD CONDUCTORS BETWEEN THE TOWER LIGHTING SYSTEM, AND THE -48VDC DISTRIBUTION PANEL, IN ACCORDANCE WITH SHEET A-4. THE 10A BREAKER MODEL AIRPAX MODEL: LML1-1RLS4R-29954-10
4. THE VENDOR SHALL CONFIGURE THE TECHNOSTROBE TOWER LIGHT CONTROLLER WITH THE FOLLOWING NETWORK INFORMATION:  
IP ADDRESS: 172.16.100.14  
SUBNET MASK: 255.255.254.0  
DEFAULT GATEWAY: 172.16.100.19
5. THE VENDOR SHALL CONFIGURE THE TECHNOSTROBE TOWER LIGHT CONTROLLER WITH THE FOLLOWING SNMP INFORMATION:  
STATE: ENABLED  
READ COMMUNITY: PUBLIC  
WRITE COMMUNITY: PUBLIC  
SYSTEM NAME: JESSAMINE TECHNOSTROBE  
SYSTEM DESCRIPTION: JESSAMINE TECHNOSTROBE TOWER LIGHTS  
SYSTEM LOCATION: JESSAMINE  
TRAP STATE: JESSAMINE  
TRAPS PRIMARY DESTINATION: 172.16.221  
TRAPS SECONDARY DESTINATION: 172.16.1621
6. THE VENDOR SHALL NOTIFY THE FDOT UPON COMPLETION OF ALL TOWER OBSTRUCTION LIGHTING SYSTEM INSTALLATION WORK.
7. THE FDOT WILL INSPECT THE TOWER OBSTRUCTION LIGHTING SYSTEM INSTALLATION FOR COMPLIANCE WITH THESE SPECIFICATIONS.
8. THE FDOT WILL WITNESS COMMISSIONING AND TESTING OF THE NEW TOWER OBSTRUCTION LIGHTING SYSTEM AND NOTIFY THE VENDOR OF FINAL ACCEPTANCE.

**CONTRACT PLANS RECORD**

DATE	REV.	DESCRIPTION	DATE	REV.	DESCRIPTION



**FLORIDA DEPARTMENT OF TRANSPORTATION**  
605 SUWANNEE ST. MS 90  
TALLAHASSEE, FL 32399-0450  
PH. (850)-410-5600  
FAX. (850)-410-5501

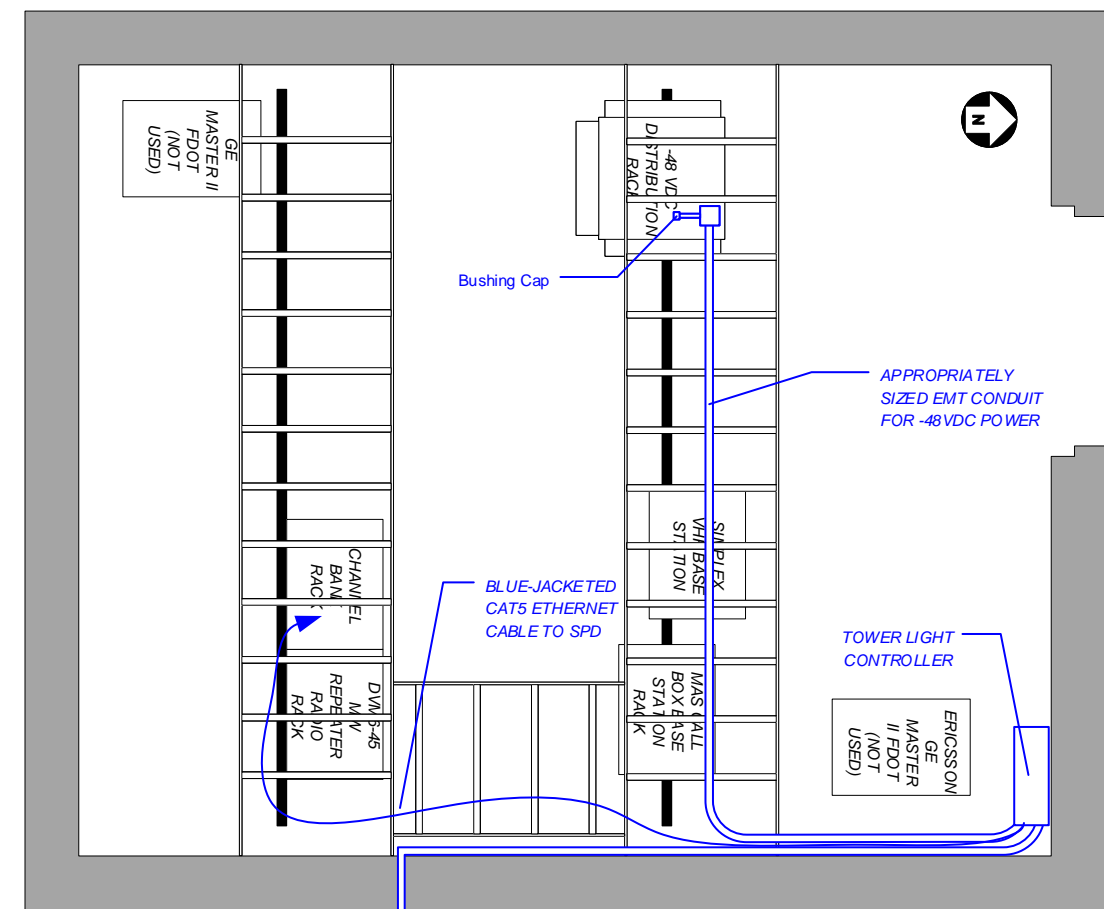
**STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION**

SITE NAME	COUNTY	FINANCIAL PROJECT ID
JESSAMINE	PASCO	424401-1-52-01

**JESSAMINE  
REMOVAL AND  
INSTALLATION NOTES**

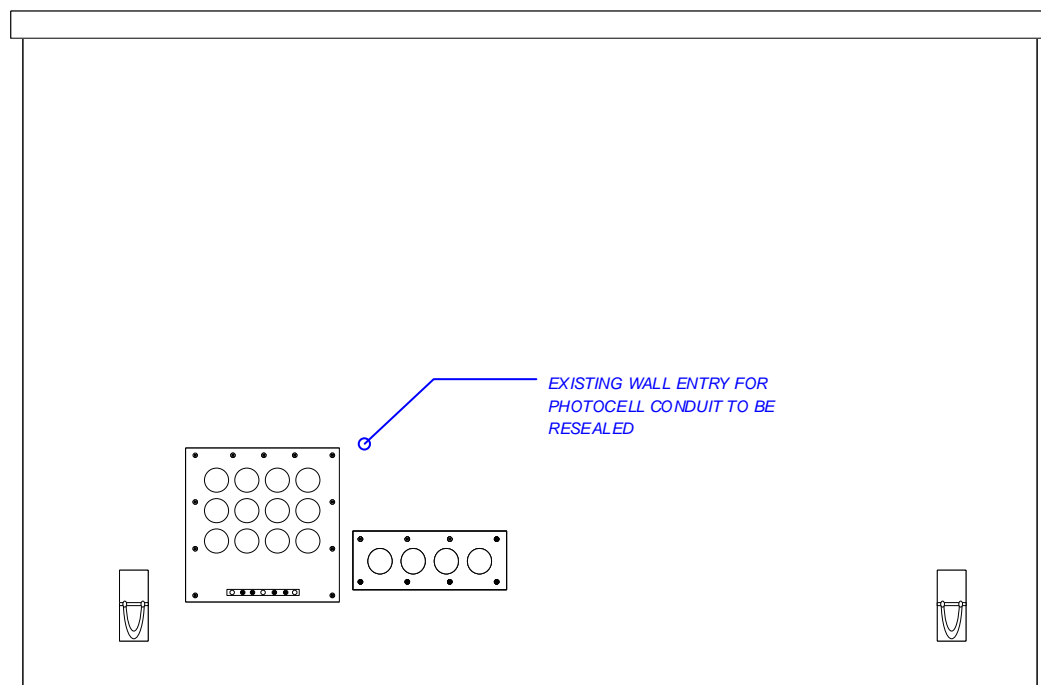
SHEET NO.

N-2

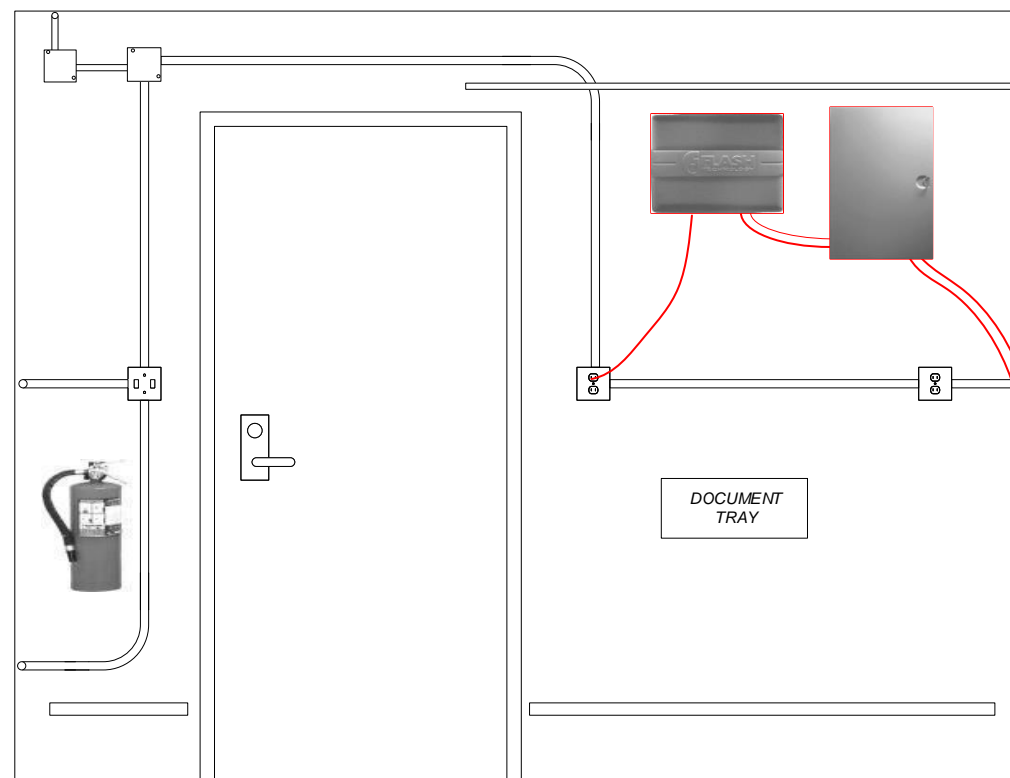


**SHELTER CABLE TRAY PLAN**

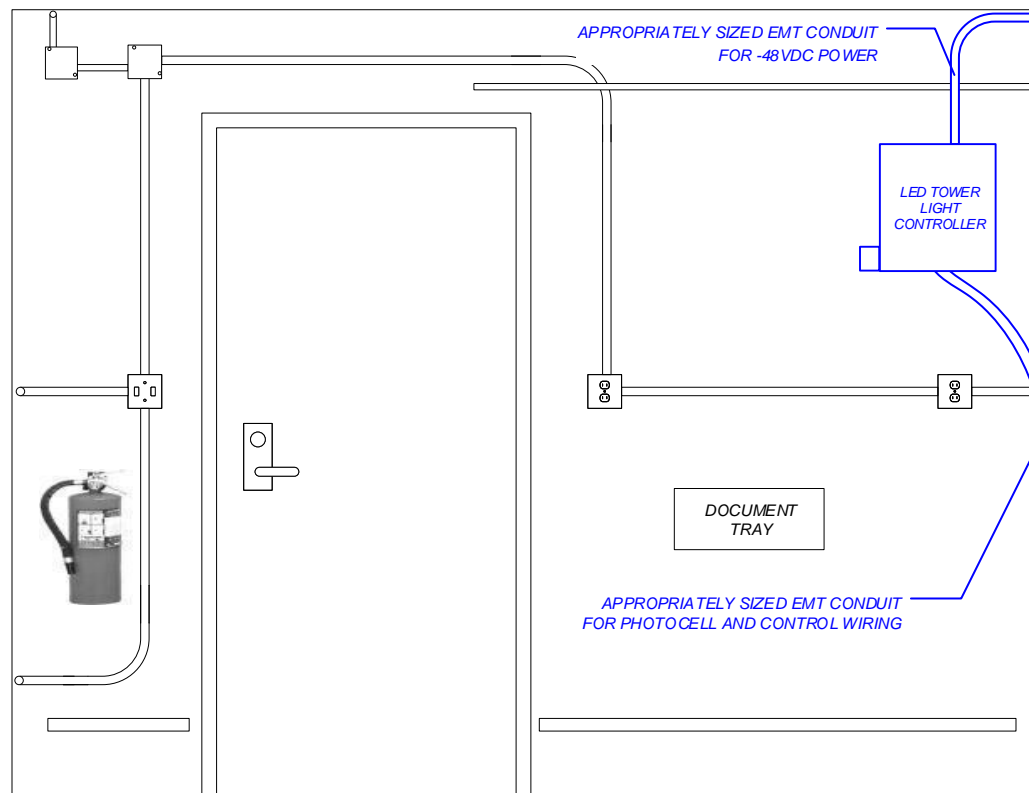
NEW PHOTOCELL LOCATED ON VERTICAL TRANSMISSION LINE LADDER AND REUSE THE EXISTING CONDUIT IF SERVICABLE



**EXTERIOR EAST WALL**



**EXISTING INTERIOR NORTH WALL**



**PROPOSED INTERIOR NORTH WALL**

**NOTES**

1. THE APPROXIMATE LOCATION OF THE EQUIPMENT IS FOR DIAGRAMMATICAL PURPOSES ONLY. THE VENDOR IS RESPONSIBLE FOR DETERMINING THE BEST LOCATIONS FOR EQUIPMENT AND ALL ASSOCIATED CONDUITS FOR EQUIPMENT AND MOUNTING AND GROUNDING HARDWARE. THE VENDOR SHALL SUBMIT DETAILED PLANS FOR APPROVAL BY THE FDOT.
2. THE VENDOR SHALL PATCH ALL WALL PENETRATIONS WITH AN APPROPRIATE MORTAR MIX AND SHALL APPROPRIATELY PLUG ALL OPENINGS TO ELECTRICAL BOXES THAT ARE A RESULT OF CONDUIT REMOVAL WITH METALLIC PLUGS.
3. THE VENDOR SHALL INSTALL THE NEW TECHNOSTROBE -48 VDC TOWER OBSTRUCTION LIGHTING SYSTEM MODEL E1-LED-B-HYBRID-48VDC-SNMP-2M-C-APT-DS-G5 DUAL LED FLASH HEAD WITH ASSOCIATED PHOTOCELL, SURGE PROTECTION, GROUNDING, AND CONDUIT.
4. THE VENDOR SHALL FURNISH AND INSTALL ONE (1) ETHERNET SURGE PROTECTIVE DEVICE (SPD), MTL-SURGE MODEL NUMBER ZB24540. THIS SPD SHALL BE MOUNTED ON THE DIN RAIL IN THE CHANNEL BANK RACK.
5. THE VENDOR SHALL INSTALL CUSTOM LENGTH BLUE-JACKETED CAT 5 CABLE FROM THE TECHNOSTROBE ETHERNET PORT TO THE NEWLY INSTALLED ETHERNET SPD IN THE CHANNEL BANK RACK, AND FROM THE SPD TO THE BPS 2000, PORT #22.
6. THE VENDOR SHALL MECHANICALLY GROUND THE TECHNOSTROBE TOWER LIGHT CONTROLLER TO THE GROUND HALO USING #6 AWG GREEN JACKETED CONDUCTOR. THE GROUND SHALL BE DOWNWARD COURSING, AND AS STRAIGHT AND SHORT AS POSSIBLE.

THE VENDOR SHALL CLEAN AND PREPARE ALL GROUND CONDUCTORS AND SURFACES PRIOR TO BONDS. ALL NON-CONDUCTING SURFACE COATINGS SHALL BE REMOVED BEFORE EACH CONNECTION IS MADE.

**LEGEND**

- EXISTING
- VENDOR FURNISHED AND INSTALLED
- TO BE REMOVED BY VENDOR

**CONTRACT PLANS RECORD**

DATE	REV.	DESCRIPTION	DATE	REV.	DESCRIPTION



FLORIDA DEPARTMENT OF TRANSPORTATION  
605 SUWANNEE ST. MS 90  
TALLAHASSEE, FL 32399-0450  
PH. (850)-410-5600  
FAX. (850)-410-5501

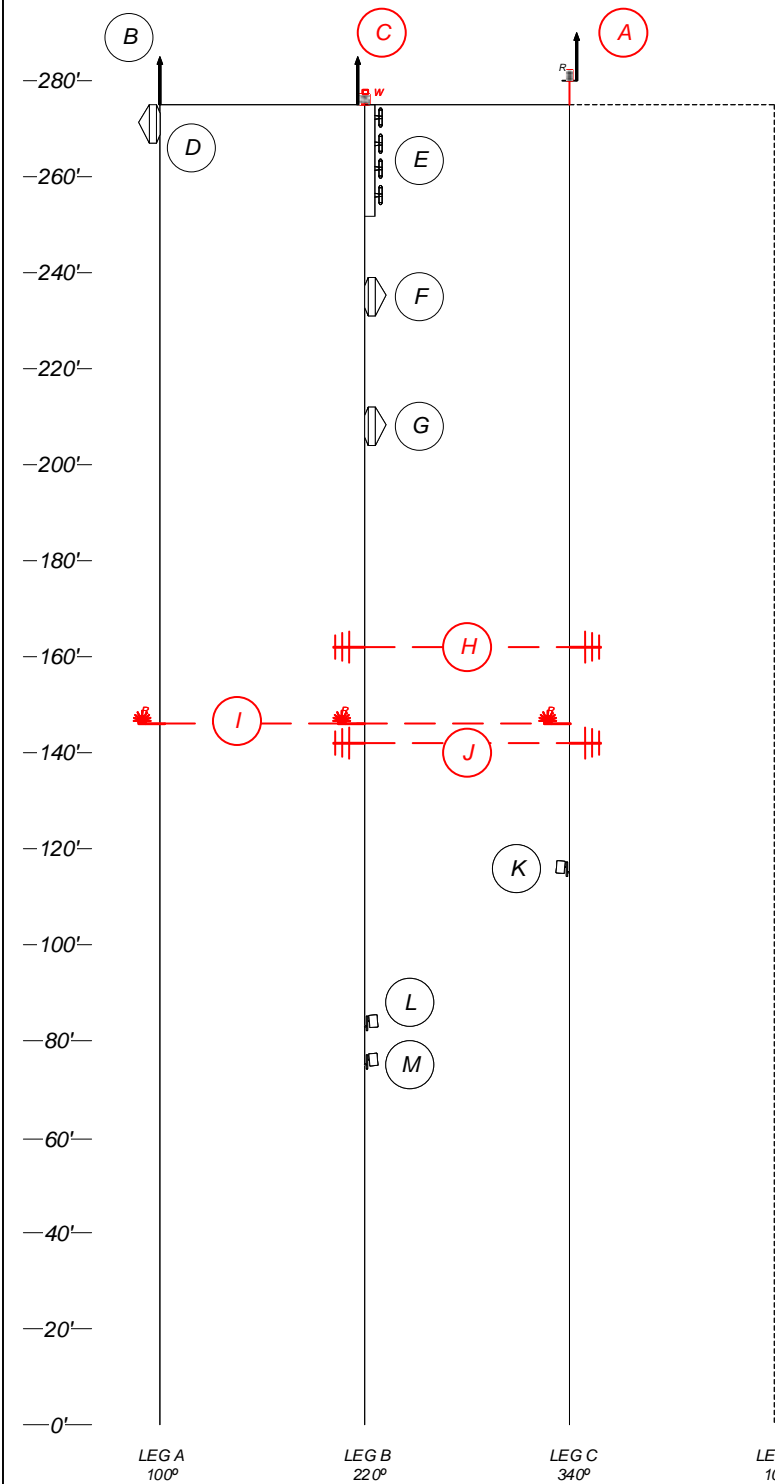
STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

SITE NAME	COUNTY	FINANCIAL PROJECT ID
JESSAMINE	PASCO	424401-1-52-01

JESSAMINE COMM  
BLDG PLANS

SHEET NO.

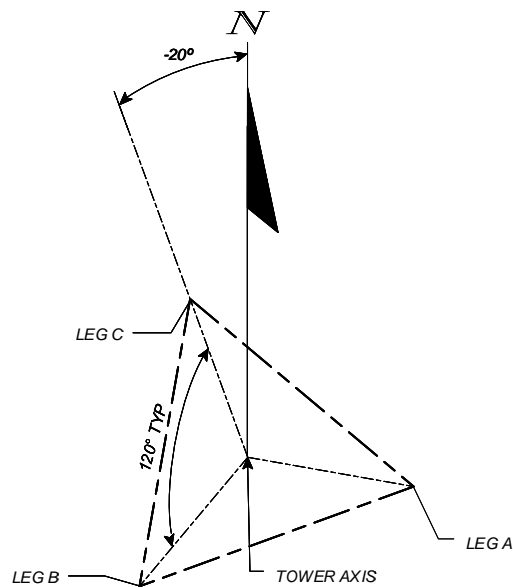
N-3



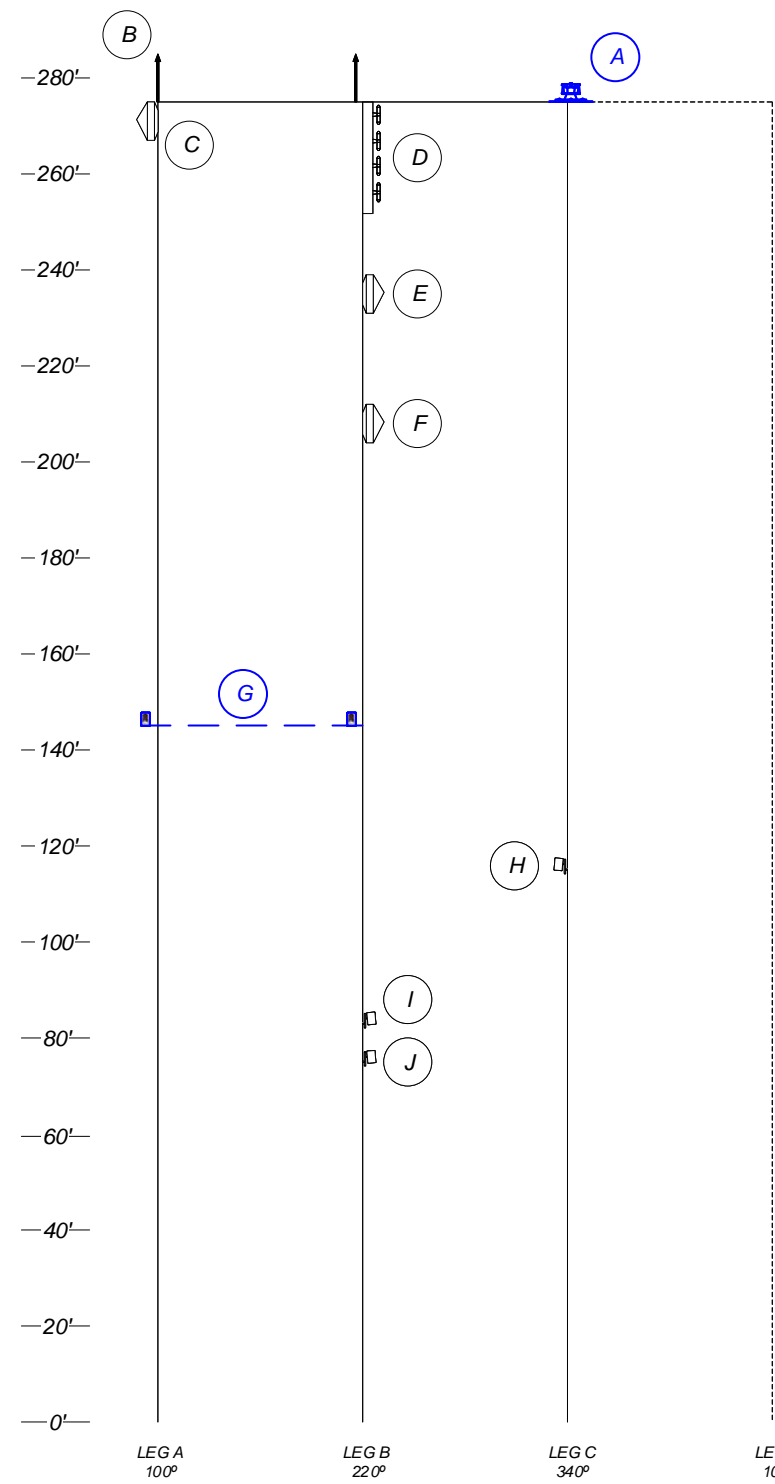
I.D.	TYPE	LEG	ELEV.	DEG.	FPE	TX. LINE	NOTE
A	RED BEACON	C	280' (BASE)	-	-	-	1
B	AIR TERMINAL	A	275' (BASE)	-	-	-	-
C	WHITE STROBE	B	275' (BASE)	-	-	-	1
D	PA8-65	A	271' (C.L.)	22.6	-	WE-65	-
E	DB224E	B	252' BASE	-	-	7/8"	-
F	PA8-65	B	235' (C.L.)	194.6	-	WE-65	-
G	PA8-65	B	208' (C.L.)	194.6	-	WE-65	-
H	DB230-2	B,C	162' (C.L.)	195/22	-	1/2"	2
I	SIDE MARKERS	A,B,C	146' (BASE)	-	-	-	1
J	DB230-2	B,C	142' (C.L.)	195/22	-	1/2"	2
K	KLM	C	115' (BASE)	-	-	-	-
L	KLM	B	83' (BASE)	-	-	-	-
M	KLM	B	75' (BASE)	-	-	-	-

NOTES:

1. REMOVE AND PROPERLY DISPOSE OF THE TOWER OBSTRUCTION LIGHTING SYSTEM, CONDUIT, AND ASSOCIATED MOUNTING HARDWARE PER THESE PLANS. THE STROBE SHALL BE PRESERVED AND DELIVERED TO THE MAINTENANCE CONTRACTOR IN ACCORDANCE WITH SHEET N-2 REMOVAL NOTE 1.
2. VENDOR SHALL REMOVE AND PROPERLY DISPOSE OF THE ANTENNAS, ASSOCIATED COAXIAL TRANSMISSION LINES, MOUNTING HARDWARE, AND SPDS.
3. RESTORE SITE COMPOUND PER THESE PLANS.



EXISTING TOWER LOADING DIAGRAM



I.D.	TYPE	LEG	ELEV.	DEG.	FPE	TX. LINE	NOTE
A	TECHNOSTROBE DUAL LED FLASH HEAD	C	280' (BASE)	-	-	CONDUIT	1
B	AIR TERMINAL	A	275' (BASE)	-	-	-	-
C	PA8-65	A	271' (C.L.)	22.6	-	WE-65	-
D	DB224E	B	252' BASE	-	-	7/8"	-
E	PA8-65	B	235' (C.L.)	194.6	-	WE-65	-
F	PA8-65	B	208' (C.L.)	194.6	-	WE-65	-
G	(2) LED SIDE MARKERS	A, B	146' (BASE)	-	-	SAME CONDUIT	1
H	KLM	C	115' (BASE)	-	-	-	-
I	KLM	B	83' (BASE)	-	-	-	-
J	KLM	B	75' (BASE)	-	-	-	-

NOTES:

1. THE VENDOR SHALL INSTALL THE NEW TECHNOSTROBE E1-LED-B-HYBRID-48VDC-SNMP-2M-C-APT-DS-G5 TOWER LIGHTING SYSTEM IN ACCORDANCE WITH SHEET A-3.

PROPOSED TOWER LOADING DIAGRAM

CONTRACT PLANS RECORD					
DATE	REV.	DESCRIPTION	DATE	REV.	DESCRIPTION



FLORIDA DEPARTMENT OF TRANSPORTATION  
 605 SUWANNEE ST. MS 90  
 TALLAHASSEE, FL 32399-0450  
 PH. (850)-410-5600  
 FAX. (850)-410-5501

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
SITE NAME	COUNTY	FINANCIAL PROJECT ID
JESSAMINE	PASCO	424401-1-52-01

JESSAMINE  
TOWER LOADING  
DIAGRAM

SHEET NO.

N-4



**STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION**

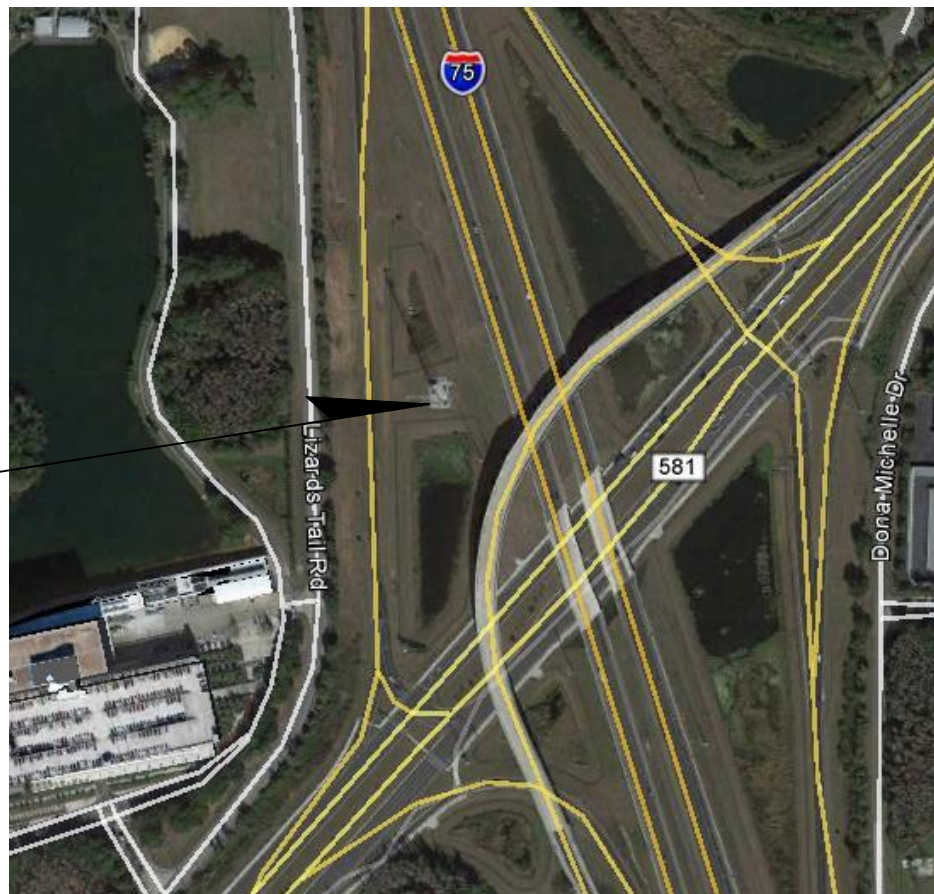
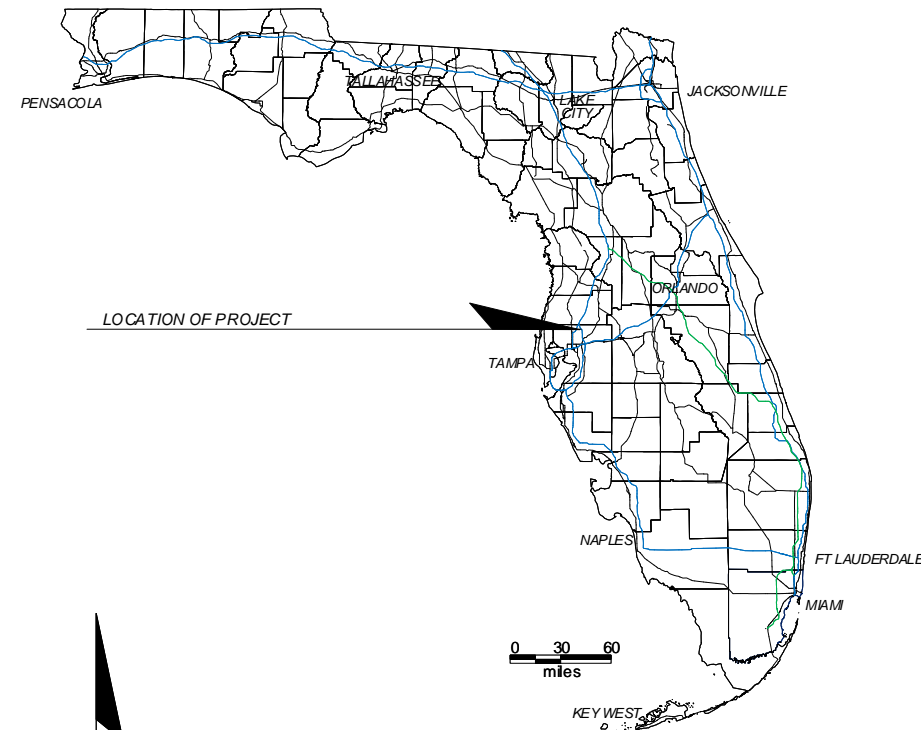
**APPENDIX O**

FINANCIAL PROJECT ID 424401-1-52-01  
HILLSBOROUGH COUNTY  
TEMPLE TERRACE (7-7339) LED TOWER OBSTRUCTION LIGHTING UPGRADE

**INTELLIGENT TRANSPORTATION SYSTEMS PLANS**

**INDEX OF PLANS**

SHEET NO.	SHEET DESCRIPTION
O-1	KEY SHEET
O-2	TEMPLE TERRACE REMOVAL AND INSTALLATION NOTES
O-3	TEMPLE TERRACE COMMUNICATIONS BUILDING DETAIL
O-4	TEMPLE TERRACE TOWER LOADING DIAGRAM



TEMPLE TERRACE TOWER SITE


TOWER SITE ADDRESS:  
TEMPLE TERRACE  
17304 BRUCE B. DOWNS BLVD.  
TAMPA, FL 33647  
LATITUDE: 28-07-22.6 N (NAD 83)  
LONGITUDE: 82-22-31.1 W

NOTE: THE SCALE OF THESE PLANS MAY  
HAVE CHANGED DUE TO REPRODUCTION.

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS (CURRENT EDITION),  
AND STANDARD SPECIFICATIONS FOR ROAD AND  
BRIDGE CONSTRUCTION (CURRENT EDITION),  
AS AMENDED BY CONTRACT DOCUMENTS.

**FLORIDA DEPARTMENT OF  
TRANSPORTATION  
LED TOWER OBSTRUCTION LIGHTING  
UPGRADE PROJECT**

FDOT PROJECT MANAGER: RANDY PIERCE

CONTRACT PLANS RECORD						 FLORIDA DEPARTMENT OF TRANSPORTATION 605 SUWANNEE ST. MS 90 TALLAHASSEE, FL 32399-0450 PH. (850)-410-5600 FAX. (850)-410-5501	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPLE TERRACE KEY SHEET	SHEET NO. O-1
DATE	REV.	DESCRIPTION	DATE	REV.	DESCRIPTION		SITE NAME	COUNTY	FINANCIAL PROJECT ID		
						TEMPLE TERRACE	HILLSBOROUGH	424401-1-52-01			

**REMOVAL NOTES:**

1. THE VENDOR SHALL REMOVE THE OLD OBSTRUCTION LIGHTING SYSTEM, INCLUDING BUT NOT LIMITED TO, POWER SUPPLIES, CONTROLLERS, SPDS, CONDUITS, TOWER LIGHT PHOTOCCELL, AND ALL ASSOCIATED ELECTRICAL AND GROUNDING CONDUCTORS. THE VENDOR SHALL LEAVE THE CIRCUIT BREAKER IN PLACE AND SWITCH IT TO THE "OFF" POSITION. THE VENDOR SHALL DELIVER THE OLD TOWER LIGHT CONTROLLER AND BEACON TO THE MAINTENANCE CONTRACTOR ON SITE, AND PROPERLY DISPOSE OF THE REMAINING MATERIALS.  
  
THE VENDOR SHALL PATCH ALL WALL PENETRATIONS WITH AN APPROPRIATE MORTAR MIX AND SHALL APPROPRIATELY PLUG ALL OPENINGS TO ELECTRICAL BOXES THAT ARE A RESULT OF CONDUIT REMOVAL WITH METALLIC PLUGS.
2. THE VENDOR SHALL DISCONNECT AND PROPERLY REMOVE AND DISPOSE OF THE DB-230 ANTENNAS LABELED "I" THROUGH "L" AND THE ASSOCIATED TRANSMISSION LINES AND ANTENNA MOUNTS ON THE EXISTING TOWER LOADING DETAIL ON SHEET O-4. THE VENDOR SHALL REMOVE AND PROPERLY DISPOSE OF THE TRANSMISSION LINE SPDS LOCATED INSIDE THE COMMUNICATIONS SHELTER UPON THE TRANSMISSION LINES ENTERING THE SHELTER, AND RETURN TO THE FDOT. THE VENDOR SHALL INSTALL NEW ENTRY PORT BOOTS ON THE BULKHEAD.

**TEMPLE TERRACE INSTALLATION NOTES:**

1. THE VENDOR SHALL FURNISH AND INSTALL A NEW -48 VDC LED DUAL DAYTIME/NIGHT-TIME TOWER OBSTRUCTION LIGHTING SYSTEM IN ACCORDANCE WITH THESE PLANS. THE TOWER OBSTRUCTION LIGHTING SYSTEM SHALL BE TECHNOSTROBE E1-LED-B-HYBRID-48VDC-SNMP-2M-C-APT-DS-G5 DUAL LED FLASH HEAD. TOWER LIGHTS TO BE INSTALLED ARE LABELED "A" AND "I" ON THE PROPOSED TOWER LOADING DETAIL ON SHEET O-4.  
  
THE TOWER OBSTRUCTION LIGHTING SYSTEM AND CONDUIT SHALL BE MOUNTED TO THE TOWER AND HORIZONTAL TRANSMISSION LINE BRIDGE WITH GALVANIZED OR STAINLESS STEEL BOLT-ON HARDWARE. SNAP-ON HANGERS ARE NOT PERMITTED. ALL EXTERIOR TOWER LIGHTING CABLES SHALL BE INSTALLED IN APPROPRIATELY SIZED RIGID GALVANIZED STEEL (RGS) CONDUIT.  
  
THE TOWER LIGHT CONTROLLER SHALL BE MOUNTED INSIDE THE COMMUNICATIONS SHELTER. SEE SHEET O-3.
2. THE VENDOR SHALL FURNISH AND INSTALL NEW ELECTRICAL METALLIC TUBING (EMT) CONDUIT INSIDE THE COMMUNICATIONS SHELTER BETWEEN THE TOWER LIGHT CONTROLLER AND THE -48VDC DISTRIBUTION RACK. THE VENDOR SHALL FURNISH AND INSTALL NEW EMT CONDUIT FOR THE PHOTOCCELL AND CONTROL WIRING BETWEEN THE TOWER LIGHT CONTROLLER AND ENTRY PORT INSIDE THE SHELTER, AND IT SHALL BE LOCATED SO AS NOT TO OBSCURE ANY PORTION OF AN ELECTRICAL OUTLET OR JUNCTION BOX, PER NEC, ITEM 11, 'APPLICABLE PUBLICATIONS AND STANDARDS' OR OBSTRUCT ANY EMPTY ENTRY PORTS. THE VENDOR SHALL REUSE THE EXISTING EXTERIOR PHOTOCCELL METALLIC CONDUIT. THE VENDOR SHALL TERMINATE THE EXTERIOR EMT CONDUIT AT BOTH ENDS WITH AN END BUSHING.
3. THE VENDOR SHALL INSTALL THE LOAD CONDUCTORS BETWEEN THE TOWER LIGHTING SYSTEM, AND THE -48VDC DISTRIBUTION PANEL, IN ACCORDANCE WITH SHEET A-4. THE 10A BREAKER MODEL AIRPAX MODEL: LML1-1RLS4R-29954-10
4. THE VENDOR SHALL CONFIGURE THE TECHNOSTROBE TOWER LIGHT CONTROLLER WITH THE FOLLOWING NETWORK INFORMATION:  
  
IP ADDRESS: 172.16.102.14  
SUBNET MASK: 255.255.254.0  
DEFAULT GATEWAY: 172.16.102.19
5. THE VENDOR SHALL CONFIGURE THE TECHNOSTROBE TOWER LIGHT CONTROLLER WITH THE FOLLOWING SNMP INFORMATION:  
  
STATE: ENABLED  
READ COMMUNITY: PUBLIC  
WRITE COMMUNITY: PUBLIC  
SYSTEM NAME: TEMPLE TERRACE TECHNOSTROBE  
SYSTEM DESCRIPTION: TEMPLE TERRACE TECHNOSTROBE TOWER LIGHTS  
SYSTEM LOCATION: TEMPLE TERRACE  
TRAP STATE: TEMPLE TERRACE  
TRAPS PRIMARY DESTINATION: 172.16.221  
TRAPS SECONDARY DESTINATION: 172.16.1621
6. THE VENDOR SHALL NOTIFY THE FDOT UPON COMPLETION OF ALL TOWER OBSTRUCTION LIGHTING SYSTEM INSTALLATION WORK.
7. THE FDOT WILL INSPECT THE TOWER OBSTRUCTION LIGHTING SYSTEM INSTALLATION FOR COMPLIANCE WITH THESE SPECIFICATIONS.
8. THE FDOT WILL WITNESS COMMISSIONING AND TESTING OF THE NEW TOWER OBSTRUCTION LIGHTING SYSTEM AND NOTIFY THE VENDOR OF FINAL ACCEPTANCE.

**CONTRACT PLANS RECORD**

DATE	REV.	DESCRIPTION	DATE	REV.	DESCRIPTION



FLORIDA DEPARTMENT OF TRANSPORTATION  
605 SUWANNEE ST. MS 90  
TALLAHASSEE, FL 32399-0450  
PH. (850)-410-5600  
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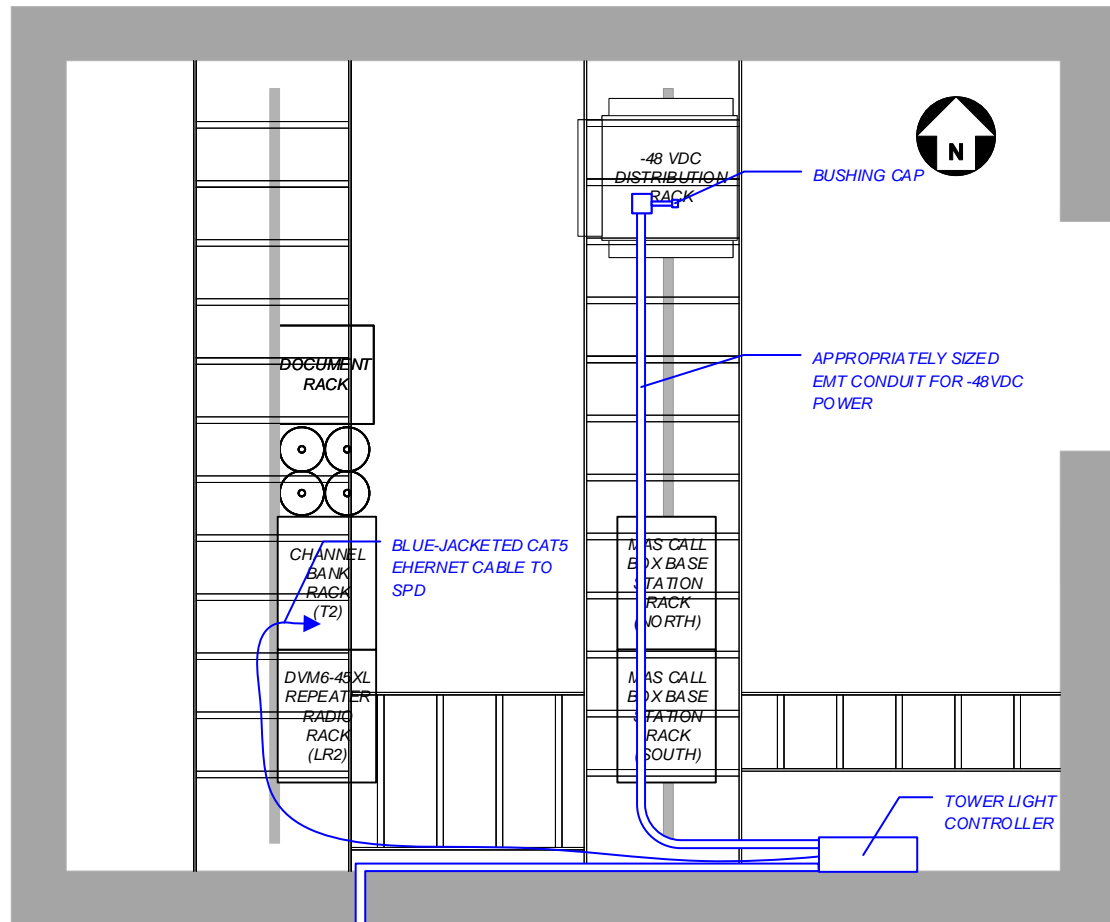
**STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION**

SITE NAME	COUNTY	FINANCIAL PROJECT ID
TEMPLE TERRACE	HILLSBOROUGH	424401-1-52-01

**TEMPLE TERRACE  
REMOVAL AND  
INSTALLATION NOTES**

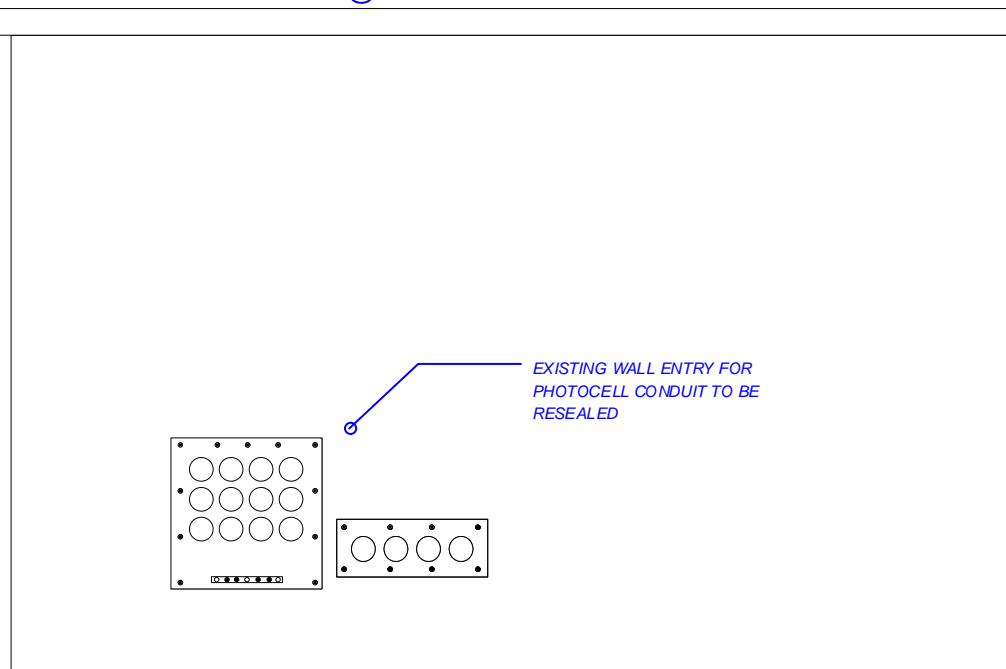
SHEET NO.

O-2

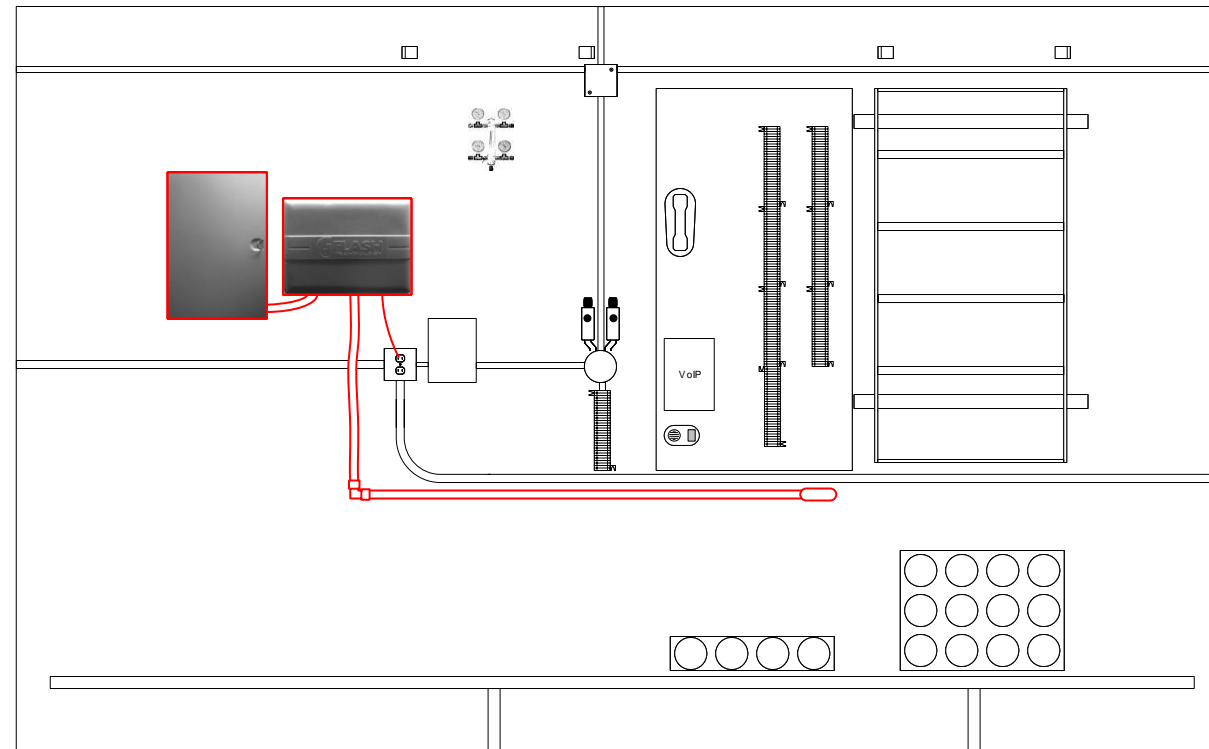


**SHELTER CABLE TRAY PLAN**

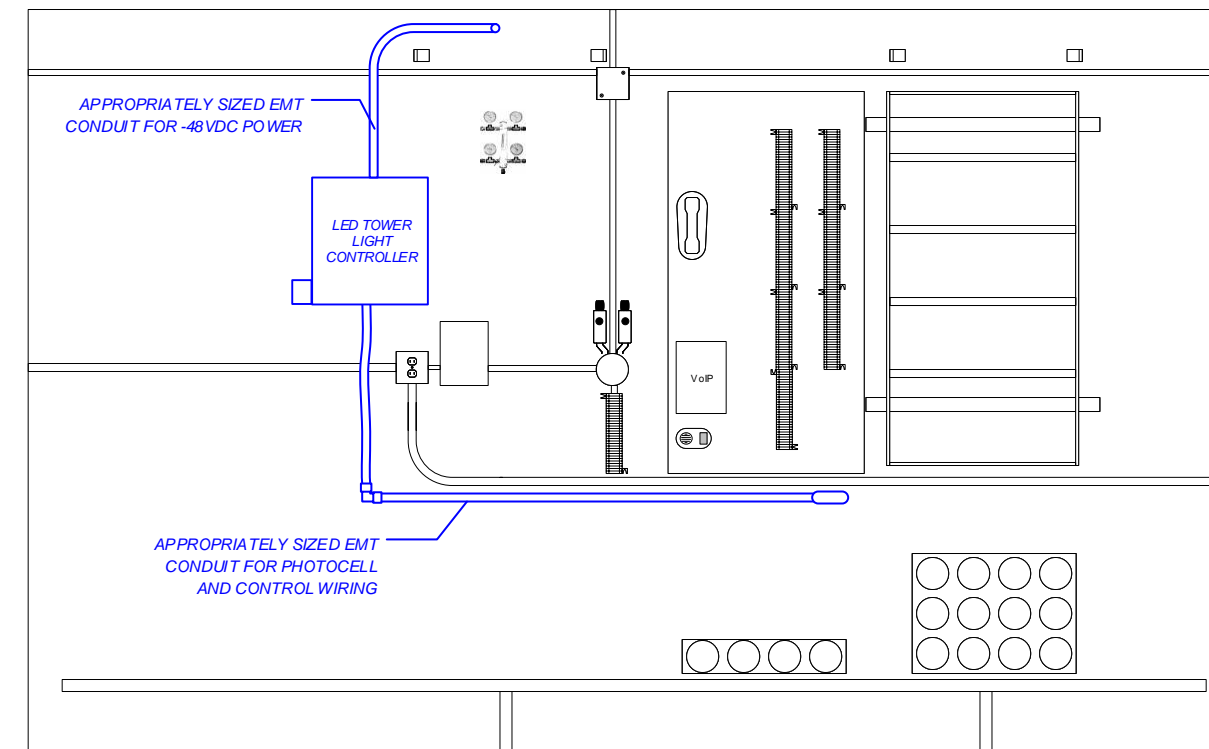
NEW PHOTOCELL LOCATED ON VERTICAL TRANSMISSION LINE LADDER USE APPROPRIATELY SIZED CONDUIT



**EXTERIOR SOUTH WALL**



**EXISTING INTERIOR SOUTH WALL**



**PROPOSED INTERIOR SOUTH WALL**

**NOTES**

1. THE APPROXIMATE LOCATION OF THE EQUIPMENT IS FOR DIAGRAMMATICAL PURPOSES ONLY. THE VENDOR IS RESPONSIBLE FOR DETERMINING THE BEST LOCATIONS FOR EQUIPMENT AND ALL ASSOCIATED CONDUITS AND MOUNTING AND GROUNDING HARDWARE. THE VENDOR SHALL SUBMIT DETAILED PLANS FOR APPROVAL BY THE FDOT.
2. THE VENDOR SHALL PATCH ALL WALL PENETRATIONS WITH AN APPROPRIATE MORTAR MIX AND SHALL APPROPRIATELY PLUG ALL OPENINGS TO ELECTRICAL BOXES THAT ARE A RESULT OF CONDUIT REMOVAL WITH METALLIC PLUGS.
3. THE VENDOR SHALL INSTALL THE NEW TECHNOSTROBE -48 VDC TOWER OBSTRUCTION LIGHTING SYSTEM MODEL E1-LED-B-HYBRID-48VDC-SNMP-2M-C-APT-DS-G5 DUAL LED FLASH HEAD WITH ASSOCIATED PHOTOCELL, SURGE PROTECTION, GROUNDING, AND CONDUIT.
4. THE VENDOR SHALL FURNISH AND INSTALL ONE (1) ETHERNET SURGE PROTECTIVE DEVICE (SPD), MTL-SURGE MODEL NUMBER ZB24540. THIS SPD SHALL BE MOUNTED ON THE DIN RAIL IN THE CHANNEL BANK RACK.
5. THE VENDOR SHALL INSTALL CUSTOM LENGTH BLUE-JACKETED CAT 5 CABLE FROM THE TECHNOSTROBE ETHERNET PORT TO THE NEWLY INSTALLED ETHERNET SPD IN THE CHANNEL BANK RACK, AND FROM THE SPD TO THE BPS 2000, PORT #22.  
  
THE VENDOR SHALL ROUTE THE NEW BLUE-JACKETED CAT 5 ETHERNET CABLE ALONG THE OVERHEAD CABLE TRAYS, PARALLEL TO EXISTING ETHERNET CABLES TO THE CHANNEL BANK RACK. THE VENDOR SHALL INDEPENDENTLY SECURE THE ETHERNET CABLE TO THE OVERHEAD CABLE TRAYS WITH ZIP TIES OR LACING STRING, AT 36 IN. INTERVALS, MAXIMUM.
6. THE VENDOR SHALL MECHANICALLY GROUND THE TECHNOSTROBE TOWER LIGHT CONTROLLER TO THE GROUND HALO USING #6 AWG GREEN JACKETED CONDUCTOR. THE GROUND SHALL BE DOWNWARD COURSING, AND AS STRAIGHT AND SHORT AS POSSIBLE.  
  
THE VENDOR SHALL CLEAN AND PREPARE ALL GROUND CONDUCTORS AND SURFACES PRIOR TO BONDS. ALL NON-CONDUCTING SURFACE COATINGS SHALL BE REMOVED BEFORE EACH CONNECTION IS MADE.

**LEGEND**

- EXISTING
- VENDOR FURNISHED AND INSTALLED
- TO BE REMOVED BY VENDOR

**CONTRACT PLANS RECORD**

DATE	REV.	DESCRIPTION	DATE	REV.	DESCRIPTION



FLORIDA DEPARTMENT OF TRANSPORTATION  
605 SUWANNEE ST. MS 90  
TALLAHASSEE, FL 32399-0450  
PH. (850)-410-5600  
FAX. (850)-410-5501

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

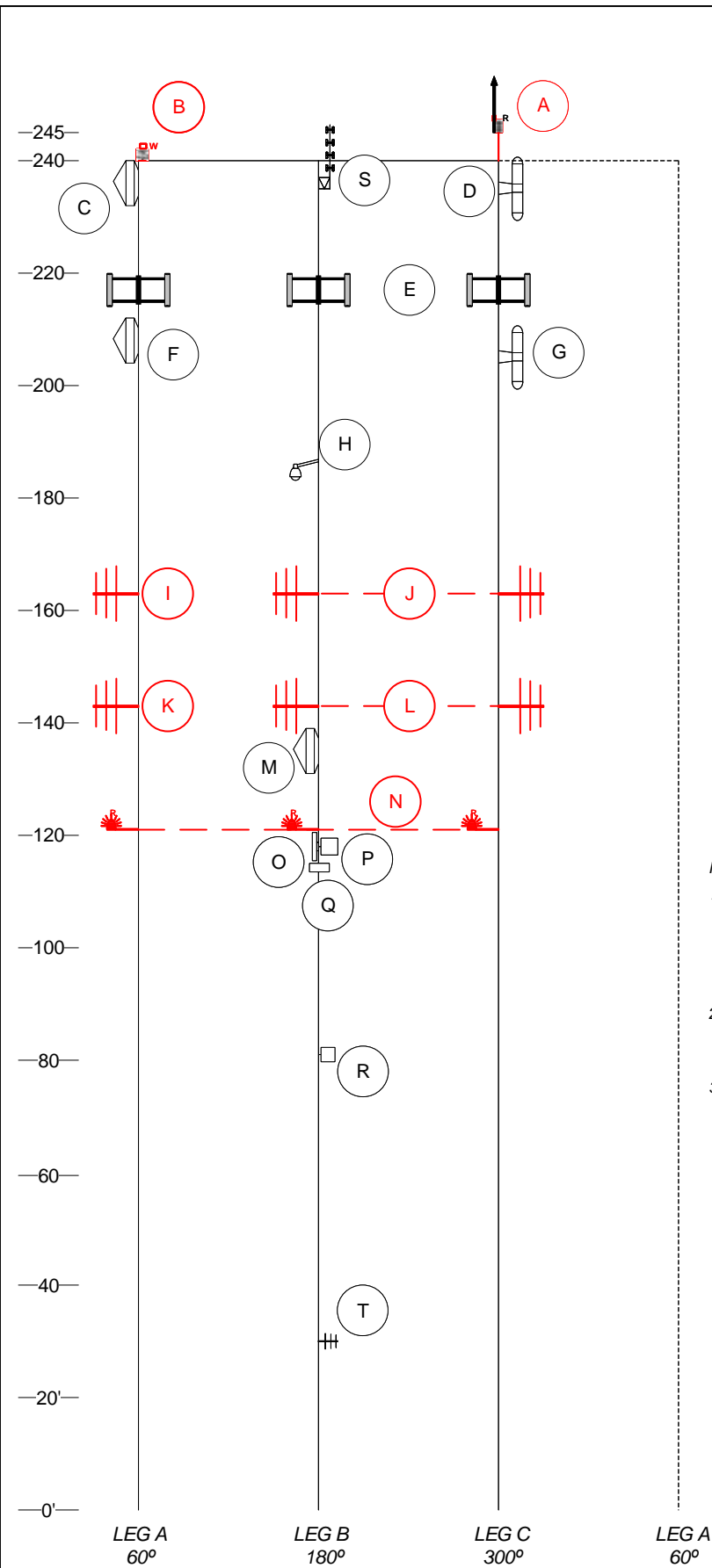
SITE NAME	COUNTY	FINANCIAL PROJECT ID
TEMPLE TERRACE	HILLSBOROUGH	424401-1-52-01

TEMPLE TERRACE  
COMM BLDG PLANS

SHEET NO.

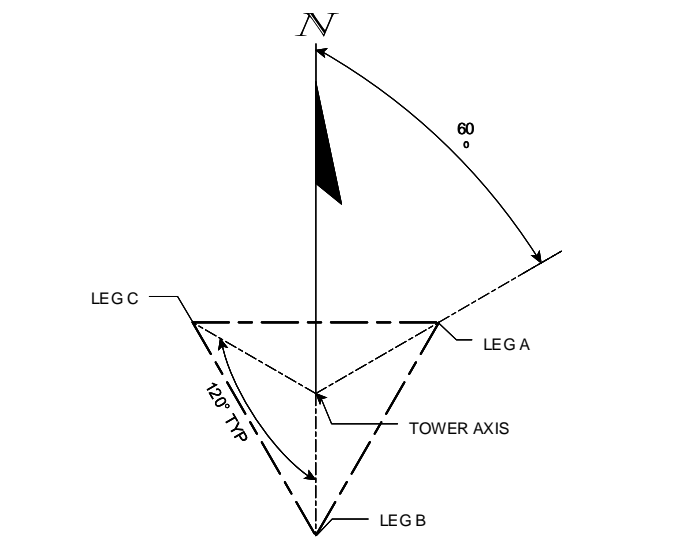
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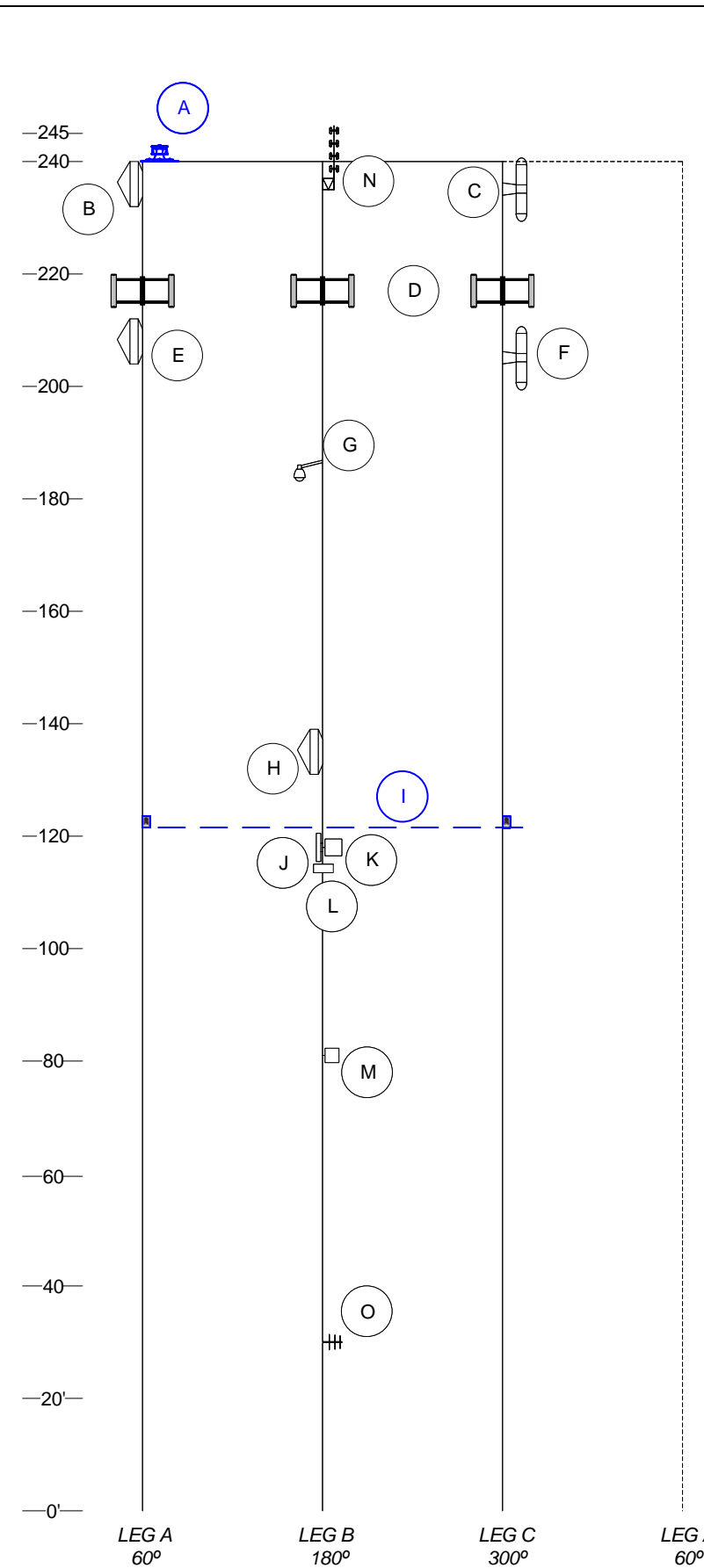


ID	MODEL	LEG/FACE	MNT. HGT.	TX LINE	AZIM.	NOTES
A	RED BEACON	C	245' BASE	-	-	1
B	WHITE BEACON	A	240' BASE	-	-	1
C	PA8-65	A	236' (C.L.)	WE-65	-	TX RX
D	531-70 HDB	C	235' (C.L.)	7/8"	-	RX
E	PCS	A,B,C	215' BASE	1-5/8"	100.1°	-
F	PA8-65	A	208' (C.L.)	WE-65	100.1°	TX RX
G	531-70 HDB	C	205' (C.L.)	7/8"	-	TX
H	CAMERA	B	185' TOP	RS-232	-	1
I	DB-230	A	163' (C.L.)	1/2"	53°	2
J	DB-230-2	B,C	163' (C.L.)	1/2"	185° 253°	2
K	DB-230	A	143' (C.L.)	1/2"	53°	2
L	DB-230-2	B,C	143' (C.L.)	1/2"	180° 250°	2
M	PA8-65	B	135' (C.L.)	WE-65	-	TX RX
N	SIDE MARKERS	A,B,C	121' (C.L.)	-	278°	1
O	AN-206	B	118' (C.L.)	-	43.1°	-
P	AN-196	B	118' (C.L.)	-	216.8°	-
Q	5.8 GHZ RADIO	B	115' (C.L.)	CAT 5E	-	-
R	4.9 GHZ RADIO	A	81' (C.L.)	POE	14.59°	-
S	DB408	B	235' BASE	7/8"	-	-
T	LAIRD YS2203	B	30' (C.L.)	1/2"	-	-

- NOTES:
- REMOVE AND PROPERLY DISPOSE OF THE TOWER OBSTRUCTION LIGHTING SYSTEM, CONDUIT, AND ASSOCIATED MOUNTING HARDWARE PER THESE PLANS. THE STROBE SHALL BE PRESERVED AND DELIVERED TO THE MAINTENANCE CONTRACTOR IN ACCORDANCE WITH SHEET O-2 REMOVAL NOTE 1.
  - VENDOR SHALL REMOVE AND PROPERLY DISPOSE OF THE ANTENNAS, ASSOCIATED COAXIAL TRANSMISSION LINES, MOUNTING HARDWARE, AND SPDS.
  - RESTORE SITE COMPOUND PER THESE PLANS.



EXISTING TOWER LOADING DIAGRAM



ID	MODEL	LEG/FACE	MNT. HGT.	TX LINE	AZIM.	NOTES
A	TECHNOSTROBE DUAL LED FLASH HEAD	A	240' BASE	CONDUIT	-	1
B	PA8-65	A	236' (C.L.)	WE-65	-	TX RX
C	531-70 HDB	C	235' (C.L.)	7/8"	-	RX
D	PCS	A,B,C	215' BASE	1-5/8"	100.1°	-
E	PA8-65	A	208' (C.L.)	WE-65	100.1°	TX RX
F	531-70 HDB	C	205' (C.L.)	7/8"	-	TX
G	CAMERA	B	185' TOP	RS-232	-	-
H	PA8-65	B	135' (C.L.)	WE-65	-	TX RX
I	(2) LED SIDE MARKERS	A, C	121' (C.L.)	SAME CONDUIT	278°	1
J	AN-206	B	118' (C.L.)	-	43.1°	-
K	AN-196	B	118' (C.L.)	-	216.8°	-
L	5.8 GHZ RADIO	B	115' (C.L.)	CAT 5E	-	-
M	4.9 GHZ RADIO	A	81' (C.L.)	POE	14.59°	-
N	DB408	B	235' BASE	7/8"	-	-
O	LAIRD YS2203	B	30' (C.L.)	1/2"	-	-

- NOTES:
- THE VENDOR SHALL INSTALL THE NEW TECHNOSTROBE E1-LED-B-HYBRID-48VDC-SNMP-2M-C-APT-DS-G5 TOWER LIGHTING SYSTEM IN ACCORDANCE WITH SHEET A-3.

PROPOSED TOWER LOADING DIAGRAM

CONTRACT PLANS RECORD					
DATE	REV.	DESCRIPTION	DATE	REV.	DESCRIPTION

**FLORIDA DEPARTMENT OF TRANSPORTATION**  
 605 SUWANNEE ST. MS 90  
 TALLAHASSEE, FL 32399-0450  
 PH. (850)-410-5600  
 FAX. (850)-410-5501

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
SITE NAME	COUNTY	FINANCIAL PROJECT ID
TEMPLE TERRACE	HILLSBOROUGH	424401-1-52-01

**TEMPLE TERRACE  
TOWER LOADING  
DIAGRAM**

SHEET NO. O-4

https://skms-my.sharepoint.com/personal/sean\_kane\_akinsj@fla.com/Documents/Desktop/Multiple Tower Light Upgrade Plans 20190329.vsd