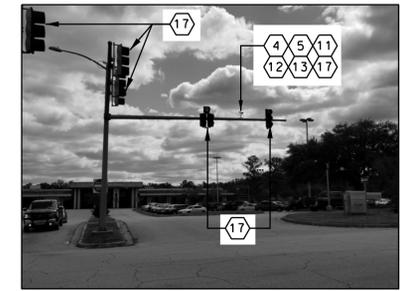
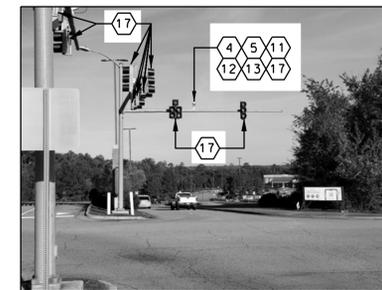


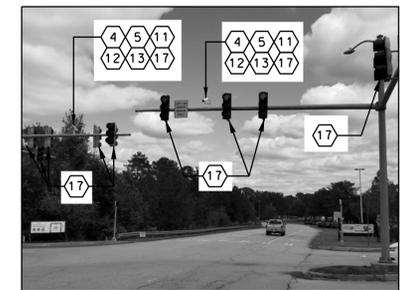
PHOTOGRAPH A



PHOTOGRAPH B



PHOTOGRAPH C



PHOTOGRAPH D

1 TRAFFIC LIGHT CONTROLLER SITE PLAN I NO SCALE
E1 (MARNE ROAD AND B9220 ACCESS ROAD) 1 2 18 19

SPECIAL ELECTRICAL KEYED NOTES:

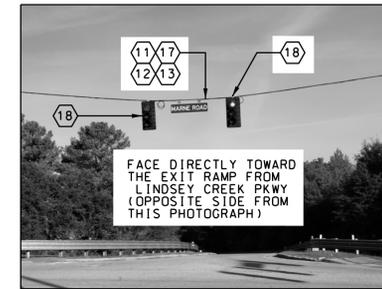
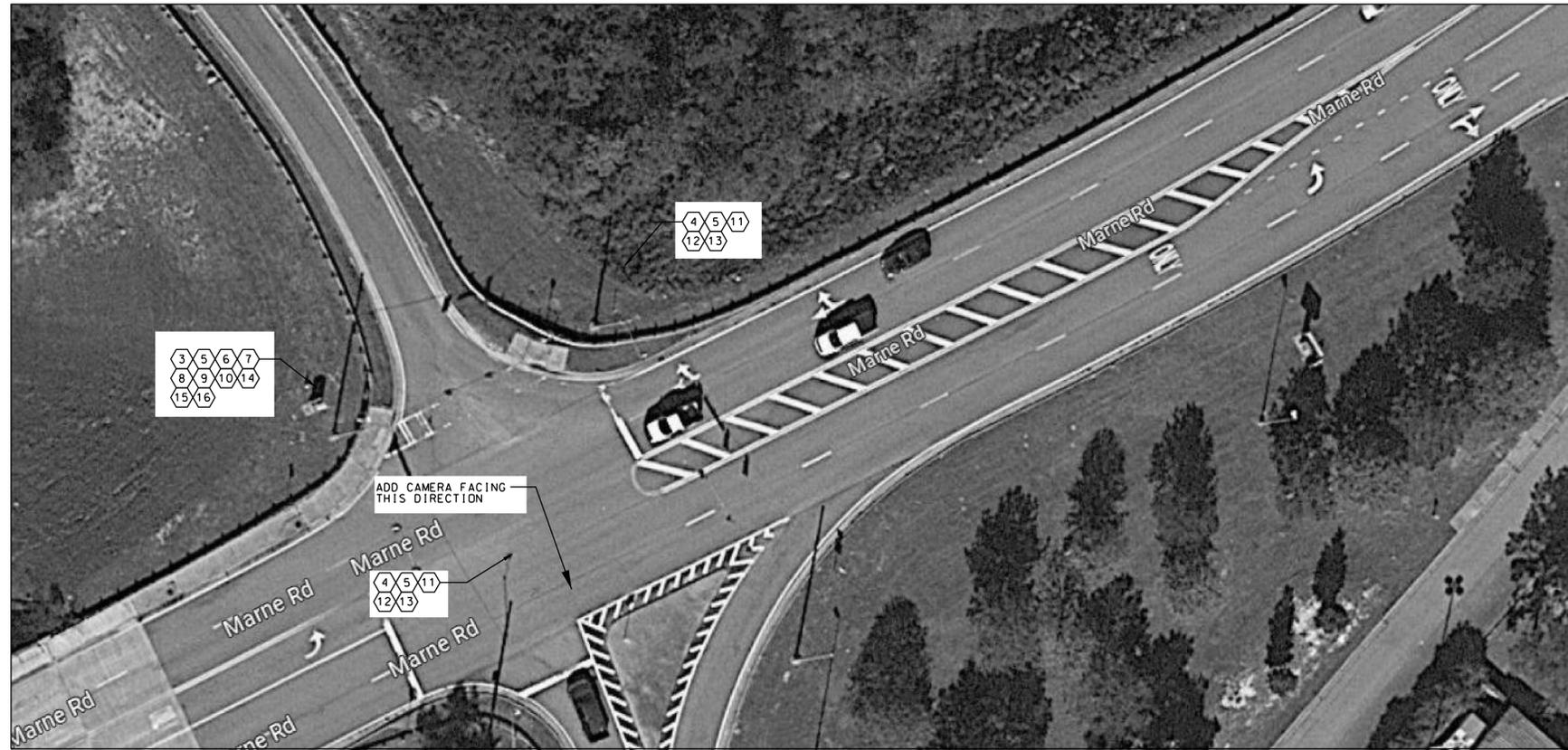
- 1 THIS PROJECT SHALL INCLUDE ALL NECESSARY EQUIPMENT (HARDWARE) AND SOFTWARE REQUIRED TO REPLACE EXISTING TRAFFIC SIGNAL SYSTEM LOCATED AT MARNE ROAD AND B9220 ACCESS ROAD INTERSECTION.
- 2 CONTRACTOR SHALL PERFORM THE FOLLOWING TASKS: (1) MOBILIZATION, (2) REMOVAL OF SIGNAL EQUIPMENT, AS NEEDED, (3) FURNISHING AND INSTALLING REQUIRED SIGNAL EQUIPMENT, (4) REQUIRED TRAFFIC SIGNAL CONTROLLER AND CABINET UPGRADES, (5) REQUIRED VIDEO DETECTION SYSTEM UPGRADES, AND (6) TRAFFIC CONTROL PLANS FOR CONSTRUCTION EFFORTS.
- 3 COMPLETELY REMOVE EXISTING NEMA CABINET WITH ALL COMPONENTS INSIDE THE CABINET FROM THE CONCRETE SLAB. REMOVE ALL THE COMPONENTS FIRST AND THEN REMOVE THE CABINET.
- 4 COMPLETELY REMOVE EXISTING FOUR (4) IVDS VIDEO CAMERAS, POWER AND CONTROL CABLES FROM THE TRAFFIC LIGHT POLES. REPLACE EXISTING VIDEO CAMERAS WITH NEW AUTOSCOPE VISION 4 CAMERA SYSTEM WITH 1000 FEET FIELD CABLE FOR NEMA TS2 CONTROLLER CABINET.
- 5 TRANSPORT THE REMOVAL ITEMS TO TIYA FOR FUTURE USE. COORDINATE WITH PROJECT MANAGER AND TIYA PERSONNEL.
- 6 PROVIDE AND INSTALL A NEW HYBRID NEMA 332 CABINET WITH ALL THE NEW COMPONENTS INSTALLED INSIDE THE CABINET NEEDED TO RUN THE INTERSECTION. INSTALL HYBRID NEMA 332 CABINET PER MANUFACTURER'S RECOMMENDATIONS.
- 7 PROVIDE AND INSTALL A NEW COBALT'S RACKMOUNT ATC CONTROLLER OR EQUAL, A NEW MALFUNCTION MANAGEMENT UNIT (MMU) AND ALL NEW PLUG-INS. INSTALL RACKMOUNT ATC CONTROLLER, MMU, AND ALL PLUG-INS PER MANUFACTURER'S RECOMMENDATIONS.
- 8 THE ATC CONTROLLER SHALL SUPPORT ECONOLITE LINUX-BASED SOFTWARE OR OTHER PREQUALIFIED ATC/LINUX SOFTWARE.
- 9 SEE HYBRID RACK MOUNTED CABINET AND ADVANCED TRANSPORTATION CONTROLLER REQUIREMENTS AS INDICATED ON THE SCOPE OF WORK.

- 10 RECONNECT EXISTING POWER SERVICE TO THE NEW HYBRID NEMA 332 CABINET.
- 11 PROVIDE AND INSTALL A NEW AUTOSCOPE "VISION" CAMERAS SYSTEM WITH FOUR (4) SENSOR CAMERAS ON THIS INTERSECTION.
- 12 PROVIDE AND INSTALL THE BROADBAND-OVER-POWER CONNECTION (VIA THE SAME THREE-CONDUCTOR CABLE THAT POWERS THE UNIT) FROM THE SENSOR CAMERAS TO THE TRAFFIC CONTROL CABINET. INSTALL THE SURVEILLANCE VIDEO CAMERAS PER MANUFACTURER'S RECOMMENDATIONS.
- 13 SEE VIDEO DETECTION SYSTEM REQUIREMENT INDICATED ON THE SCOPE OF WORK.
- 14 PROVIDE AND INSTALL A NEW 1400W UNINTERRUPTIBLE POWER SUPPLY (UPS) FOR THIS INTERSECTION PER ATC CONTROLLER MANUFACTURER'S RECOMMENDATIONS.
- 15 REPLACE EXISTING CONCRETE SLAB WITH NEW PRECAST CONCRETE SLAB.
- 16 REPLACE NEW BATTERIES POWER SUPPLY INSIDE THE CABINET WITH NEW 2000WH X2 GRAPHENE SUPER CAPACITOR MODULE(S).
- 17 PROVIDE AND INSTALL SIGNAL DEVICE SYSTEM THAT CONTROLS TRAFFIC LIGHTS WHEN EMS VEHICLE ARE RESPONDING TO EMERGENCIES ON ALL TRAFFIC LIGHTS IN THIS PROJECT.
- 18 PEDESTRIAN CROSSING CONTROLS TO REMAIN.
- 19 REPLACE EXISTING POWER CABLES TO THE RYG (RED, YELLOW, GREEN) SIGNALS WITH THE NEW POWER CABLES.

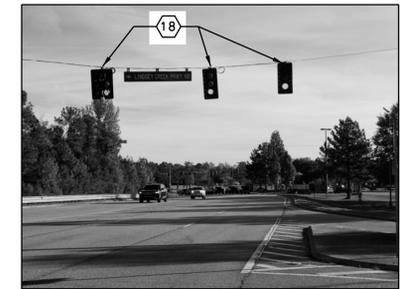


PHOTOGRAPH E

TRAFFIC LIGHT CONTROLLER SITE PLAN I			
DIRECTORATE OF PUBLIC WORKS FORT BENNING, GEORGIA			
REPLACE TRAFFIC LIGHT INFRASTRUCTURE MARNE ROAD AND B9220 ACCESS ROAD FORT MOORE, GEORGIA			
DRAWN BY: K. CHAN	DRAWING NUMBER: 44448-E1	SCALE: AS NOTED	DATE: 27 OCT 2023
APPROVED BY: J.C. VANTLAND	L&E NO:		



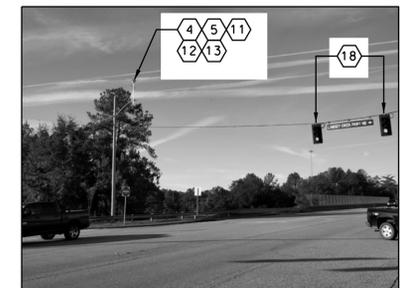
PHOTOGRAPH A



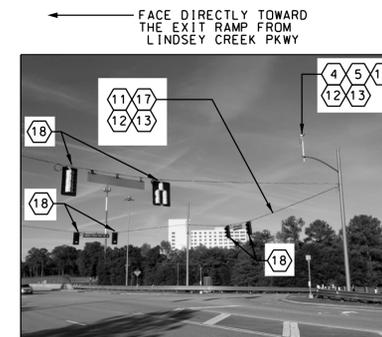
PHOTOGRAPH B



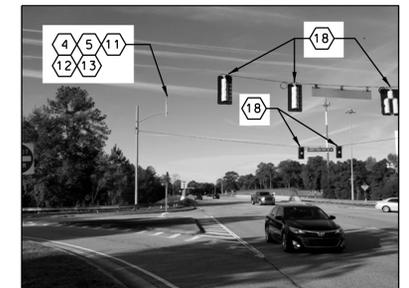
PHOTOGRAPH C



PHOTOGRAPH D



PHOTOGRAPH E



PHOTOGRAPH F

1 TRAFFIC LIGHT CONTROLLER SITE PLAN II NO SCALE
 E2 (MARNE ROAD AND LINDSEY CREEK PKWY) 1 2 19

SPECIAL ELECTRICAL KEYED NOTES:

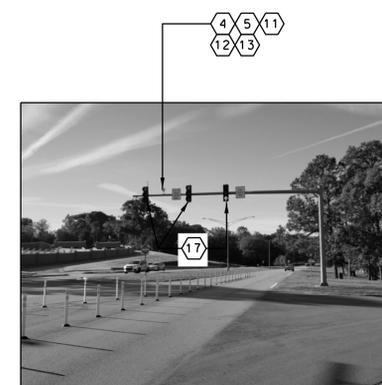
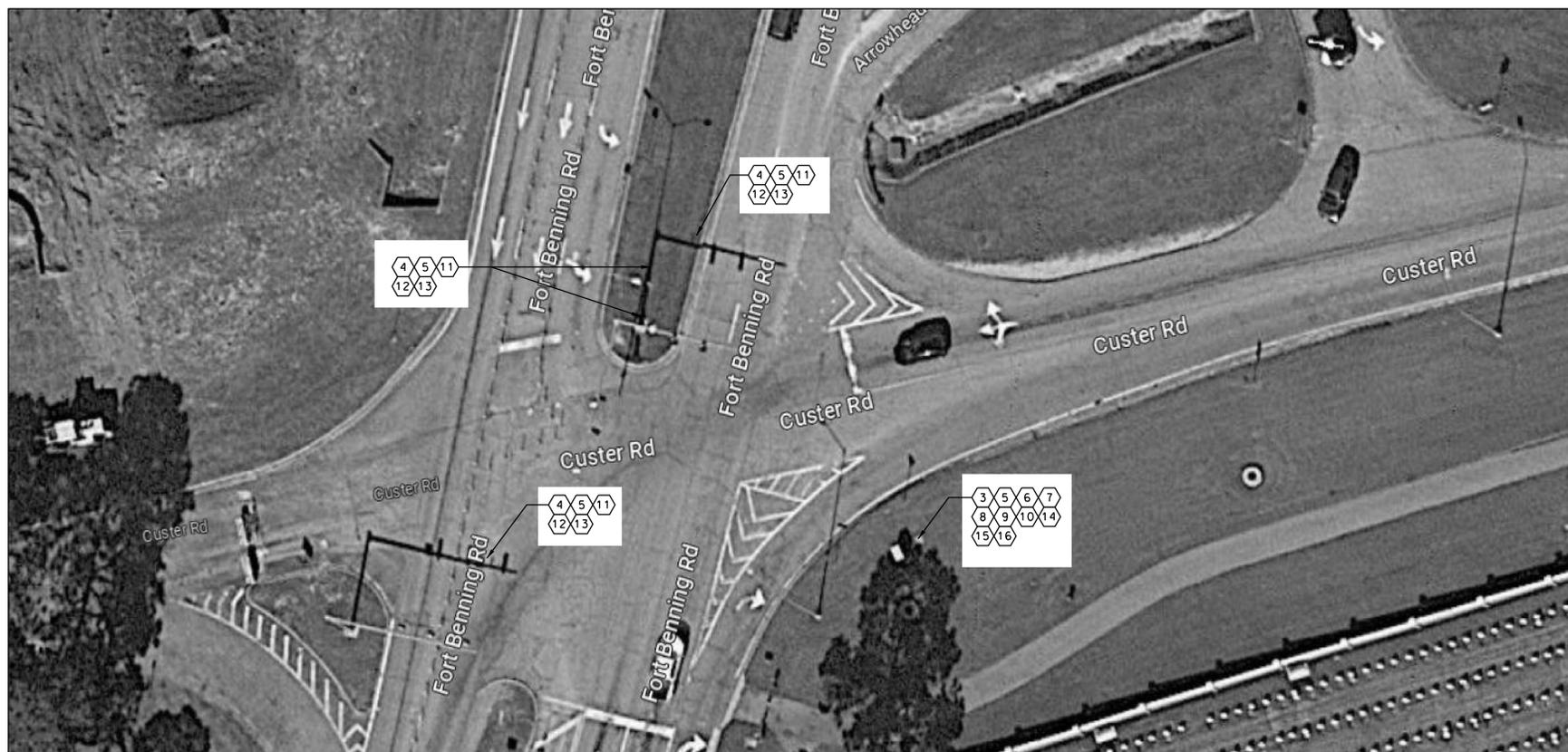
- 1 THIS PROJECT SHALL INCLUDE ALL NECESSARY EQUIPMENT (HARDWARE) AND SOFTWARE REQUIRED TO REPLACE EXISTING TRAFFIC SIGNAL SYSTEM LOCATED AT MARNE ROAD AND LINDSEY CREEK PKWY INTERSECTION.
- 2 CONTRACTOR SHALL PERFORM THE FOLLOWING TASKS: (1) MOBILIZATION, (2) REMOVAL OF SIGNAL EQUIPMENT, AS NEEDED, (3) FURNISHING AND INSTALLING REQUIRED SIGNAL EQUIPMENT, (4) REQUIRED TRAFFIC SIGNAL CONTROLLER AND CABINET UPGRADES, (5) REQUIRED VIDEO DETECTION SYSTEM UPGRADES, AND (6) TRAFFIC CONTROL PLANS FOR CONSTRUCTION EFFORTS.
- 3 COMPLETELY REMOVE EXISTING NEMA CABINET WITH ALL COMPONENTS INSIDE THE CABINET FROM THE CONCRETE SLAB. REMOVE ALL THE COMPONENTS FIRST AND THEN REMOVE THE CABINET.
- 4 COMPLETELY REMOVE EXISTING TWO (2) IVDS VIDEO CAMERAS, POWER AND CONTROL CABLES FROM THE TRAFFIC LIGHT POLES. REPLACE EXISTING VIDEO CAMERAS WITH NEW AUTOSCOPE VISION 4 CAMERA SYSTEM WITH 1000 FEET FIELD CABLE FOR NEMA TS2 CONTROLLER CABINET.
- 5 TRANSPORT THE REMOVAL ITEMS TO TIYA FOR FUTURE USE. COORDINATE WITH PROJECT MANAGER AND TIYA PERSONNEL.
- 6 PROVIDE AND INSTALL A NEW HYBRID NEMA 332 CABINET WITH ALL THE NEW COMPONENTS INSTALLED INSIDE THE CABINET NEEDED TO RUN THE INTERSECTION. INSTALL HYBRID NEMA 332 CABINET PER MANUFACTURER'S RECOMMENDATIONS.
- 7 PROVIDE AND INSTALL A NEW COBALT'S RACKMOUNT ATC CONTROLLER OR EQUAL, A NEW MALFUNCTION MANAGEMENT UNIT (MMU) AND ALL NEW PLUG-INS. INSTALL RACKMOUNT ATC CONTROLLER, MMU, AND ALL PLUG-INS PER MANUFACTURER'S RECOMMENDATIONS.
- 8 THE ATC CONTROLLER SHALL SUPPORT ECONOLITE LINUX-BASED SOFTWARE OR OTHER PREQUALIFIED ATC/LINUX SOFTWARE.
- 9 SEE HYBRID RACK MOUNTED CABINET AND ADVANCED TRANSPORTATION CONTROLLER REQUIREMENTS AS INDICATED ON THE SCOPE OF WORK.

- 10 RECONNECT EXISTING POWER SERVICE TO THE NEW HYBRID NEMA 332 CABINET.
- 11 PROVIDE AND INSTALL A NEW AUTOSCOPE "VISION" CAMERAS SYSTEM WITH TWO (2) SENSOR CAMERAS ON THIS INTERSECTION.
- 12 PROVIDE AND INSTALL THE BROADBAND-OVER-POWER CONNECTION (VIA THE SAME THREE-CONDUCTOR CABLE THAT POWERS THE UNIT) FROM THE SENSOR CAMERAS TO THE TRAFFIC CONTROL CABINET. INSTALL THE SURVEILLANCE VIDEO CAMERAS PER MANUFACTURER'S RECOMMENDATIONS.
- 13 SEE VIDEO DETECTION SYSTEM REQUIREMENT INDICATED ON THE SCOPE OF WORK.
- 14 PROVIDE AND INSTALL A NEW 1400W UNINTERRUPTIBLE POWER SUPPLY (UPS) FOR THIS INTERSECTION PER ATC CONTROLLER MANUFACTURER'S RECOMMENDATIONS.
- 15 REPLACE EXISTING CONCRETE SLAB WITH NEW PRECAST CONCRETE SLAB.
- 16 REPLACE NEW BATTERIES POWER SUPPLY INSIDE THE CABINET WITH NEW 2000WH X2 GRAPHENE SUPER CAPACITOR MODULE(S).
- 17 PROVIDE AND INSTALL AN ADDITIONAL AUTOSCOPE VISION 4 CAMERA FOR THIS INTERSECTION. NEW CAMERA SHALL BE FACING THE EXIT RAMP FROM LINDSEY CREEK PKWY AS INDICATED ON DETAIL 1, THIS SHEET.
- 18 PROVIDE AND INSTALL SIGNAL DEVICE SYSTEM THAT CONTROLS TRAFFIC LIGHTS WHEN EMS VEHICLE ARE RESPONDING TO EMERGENCIES ON ALL TRAFFIC LIGHTS IN THIS PROJECT.
- 19 PEDESTRIAN CROSSING CONTROLS TO REMAIN.

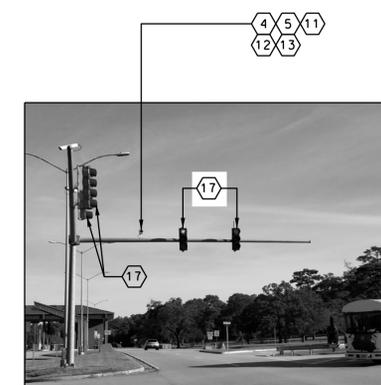


PHOTOGRAPH G

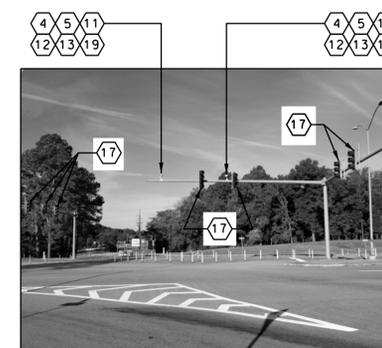
TRAFFIC LIGHT CONTROLLER SITE PLAN II			
DIRECTORATE OF PUBLIC WORKS FORT BENNING, GEORGIA			
REPLACE TRAFFIC LIGHT INFRASTRUCTURE MARNE ROAD AND LINDSEY CREEK PKWY FORT MOORE, GEORGIA			
DRAWN BY: K. CHAN	APPROVED BY: J.C. VANTLAND	DRAWING NUMBER: 44448-E2	SCALE: AS NOTED
		L&E NO.:	DATE: 27 OCT 2023



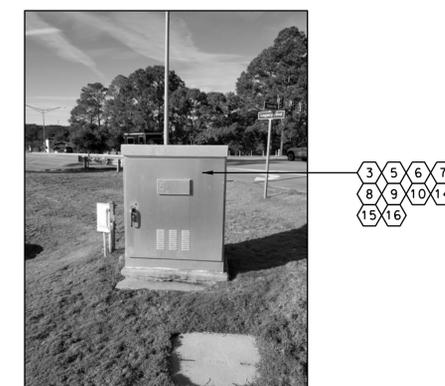
PHOTOGRAPH A



PHOTOGRAPH B



PHOTOGRAPH C



PHOTOGRAPH D

1 TRAFFIC LIGHT CONTROLLER SITE PLAN V NO SCALE
 E5 (CUSTER ROAD AND FORT MOORE ROAD) 1 2 18

SPECIAL ELECTRICAL KEYED NOTES:

- 1 THIS PROJECT SHALL INCLUDE ALL NECESSARY EQUIPMENT (HARDWARE) AND SOFTWARE REQUIRED TO REPLACE EXISTING TRAFFIC SIGNAL SYSTEM LOCATED AT CUSTER ROAD AND FORT MOORE ROAD INTERSECTION.
- 2 CONTRACTOR SHALL PERFORM THE FOLLOWING TASKS: (1) MOBILIZATION, (2) REMOVAL OF SIGNAL EQUIPMENT, AS NEEDED, (3) FURNISHING AND INSTALLING REQUIRED SIGNAL EQUIPMENT, (4) REQUIRED TRAFFIC SIGNAL CONTROLLER AND CABINET UPGRADES, (5) REQUIRED VIDEO DETECTION SYSTEM UPGRADES, AND (6) TRAFFIC CONTROL PLANS FOR CONSTRUCTION EFFORTS.
- 3 COMPLETELY REMOVE EXISTING NEMA CABINET WITH ALL COMPONENTS INSIDE THE CABINET FROM THE CONCRETE SLAB. REMOVE ALL THE COMPONENTS FIRST AND THEN REMOVE THE CABINET.
- 4 COMPLETELY REMOVE EXISTING FOUR (4) IVDS VIDEO CAMERAS, POWER AND CONTROL CABLES FROM THE TRAFFIC LIGHT POLES. REPLACE EXISTING VIDEO CAMERAS WITH NEW AUTOSCOPE VISION 4 CAMERA SYSTEM WITH 1000 FEET FIELD CABLE FOR NEMA TS2 CONTROLLER CABINET.
- 5 TRANSPORT THE REMOVAL ITEMS TO TIYA FOR FUTURE USE. COORDINATE WITH PROJECT MANAGER AND TIYA PERSONNEL.
- 6 PROVIDE AND INSTALL A NEW HYBRID NEMA 332 CABINET WITH ALL THE NEW COMPONENTS INSTALLED INSIDE THE CABINET NEEDED TO RUN THE INTERSECTION. INSTALL HYBRID NEMA 332 CABINET PER MANUFACTURER'S RECOMMENDATIONS.
- 7 PROVIDE AND INSTALL A NEW COBALT'S RACKMOUNT ATC CONTROLLER OR EQUAL, A NEW MALFUNCTION MANAGEMENT UNIT (MMU) AND ALL NEW PLUG-INS. INSTALL RACKMOUNT ATC CONTROLLER, MMU, AND ALL PLUG-INS PER MANUFACTURER'S RECOMMENDATIONS.
- 8 THE ATC CONTROLLER SHALL SUPPORT ECONOLITE LINUX-BASED SOFTWARE OR OTHER PREQUALIFIED ATC/LINUX SOFTWARE.
- 9 SEE HYBRID RACK MOUNTED CABINET AND ADVANCED TRANSPORTATION CONTROLLER REQUIREMENTS AS INDICATED ON THE SCOPE OF WORK.
- 10 RECONNECT EXISTING POWER SERVICE TO THE NEW HYBRID NEMA 332 CABINET.
- 11 PROVIDE AND INSTALL THE NEW AUTOSCOPE "VISION" CAMERAS SYSTEM WITH THREE (3) SENSOR CAMERAS ON THIS INTERSECTION.
- 12 PROVIDE AND INSTALL THE BROADBAND-OVER-POWER CONNECTION (VIA THE SAME THREE-CONDUCTOR CABLE THAT POWERS THE UNIT) FROM THE SENSOR CAMERAS TO THE TRAFFIC CONTROL CABINET. INSTALL THE SURVEILLANCE VIDEO CAMERAS PER MANUFACTURER'S RECOMMENDATIONS.
- 13 SEE VIDEO DETECTION SYSTEM REQUIREMENT INDICATED ON THE SCOPE OF WORK.
- 14 PROVIDE AND INSTALL A NEW 1400WH UNINTERRUPTIBLE POWER SUPPLY (UPS) FOR THIS INTERSECTION PER ATC CONTROLLER MANUFACTURER'S RECOMMENDATIONS.
- 15 REPLACE EXISTING CONCRETE SLAB WITH NEW PRECAST CONCRETE SLAB.
- 16 REPLACE NEW BATTERIES POWER SUPPLY INSIDE THE CABINET WITH NEW 2000WH X2 GRAPHENE SUPER CAPACITOR MODULE(S).
- 17 PROVIDE AND INSTALL SIGNAL DEVICE SYSTEM THAT CONTROLS TRAFFIC LIGHTS WHEN EMS VEHICLE ARE RESPONDING TO EMERGENCIES ON ALL TRAFFIC LIGHTS IN THIS PROJECT.
- 18 REPLACE EXISTING POWER CABLES FOR THE RYG (RED, YELLOW, GREEN) SIGNALS WITH NEW POWER CABLES AT THIS INTERSECTION.
- 19 ONLY ONE CAMERA IS NEEDED HERE, THE OTHER IS NOT WORKING AND SHOULD BE REMOVED. COORDINATE WITH TIYA FOR DETAILS.

TRAFFIC LIGHT CONTROLLER SITE PLAN V			
DIRECTORATE OF PUBLIC WORKS FORT BENNING, GEORGIA			
REPLACE TRAFFIC LIGHT INFRASTRUCTURE CUSTER ROAD AND FORT MOORE ROAD FORT MOORE, GEORGIA			
	DRAWN BY: K. CHAN	DRAWING NUMBER: 44448-E5	SCALE: AS NOTED
	APPROVED BY: J.C. VANTLAND	L&E NO.:	DATE: 27 OCT 2023
	BY:	DATE:	REVISIONS:
	SYMBOL:	DATE:	REVISIONS: