

TRAFFIC SIGNAL DESIGN NOTES

1. THE COMPLETE SIGNAL INSTALLATION SHALL CONFORM TO ALL APPROPRIATE PARTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES CURRENT EDITION, INCLUDING SUBSEQUENT PUBLISHED RULINGS.
2. SIGNAL HEADS SHALL BE PAINTED YELLOW AND ERECTED TO PROVIDE AT LEAST 17 FEET BUT NO MORE THAN 19 FEET CLEARANCE FROM BOTTOM OF SIGNAL HEADS TO TOP OF ROAD SURFACE AND A MINIMUM OF 8 FEET MEASURED HORIZONTALLY BETWEEN CENTERS OF SIGNAL FACES.
3. ALL MATERIALS AND WORK SHALL BE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS AND STANDARD DETAILS FOR TRAFFIC SIGNAL INSTALLATION. INSTALLATION SHALL MEET CURRENT NFPA NATIONAL ELECTRICAL CODE AND ANSI NATIONAL ELECTRICAL SAFETY CODE.
4. SHIELDED CABLE WILL BE USED FOR DETECTOR RUNS AS SHOWN ON THE DETAIL SHEET. DETECTORS SHALL HAVE SEPARATE LEAD-INS TO THE CONTROL CABINET.
5. THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES IN VICINITY OF NEW TRAFFIC SIGNAL POLES BEFORE INSTALLATION. MINOR SHIFTS (UP TO A MAXIMUM OF 5 FEET) IN LOCATION OF NEW SIGNAL POLES, AT THE DISCRETION OF THE ENGINEER, ARE ACCEPTABLE TO AVOID UNDERGROUND UTILITIES. MINIMUM CLEARANCES FROM EDGE OF PAVEMENT SHALL BE MAINTAINED. PLACEMENT OF THE SIGNAL HEADS SHALL BE RETAINED AS SHOWN ON THE PLANS.
6. CONTRACTOR SHALL SUBMIT LOAD CALCULATIONS, SHOP DRAWINGS AND FOUNDATION DIMENSIONS OF POLES AND CATALOG CUTS OF PROPOSED SIGNAL EQUIPMENT AND ELECTRICAL/LINE HARDWARE MATERIALS TO THE PROJECT ENGINEER FOR APPROVAL.
7. INSTALLATION IS TO BE CHECKED AND ACCEPTED BY THE GEORGIA DEPARTMENT OF TRANSPORTATION ENGINEER PRIOR TO FINAL ACCEPTANCE.
8. MATERIAL CERTIFICATION IS REQUIRED PRIOR TO BEGINNING ANY SIGNAL INSTALLATION WORK. THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE DOT SPECIFICATION.
9. WHEN APPLICABLE TO THE PLANS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A NEW RISER, CONDUIT, CONDUCTORS AND DISCONNECT TO PROVIDE POWER SERVICE INTO THE CONTROLLER CABINET.
10. ALL EXISTING STOP BARS, WORDS, ARROWS AND CROSSWALKS THAT ARE NOT REMOVED OR RELOCATED SHALL BE REPLACED IN ACCORDANCE WITH CURRENT GDOT STANDARDS.
11. PROPOSED SIGNAL SUPPORT WIRE ATTACHMENT HEIGHTS ON POLES ARE PROVIDED AS GENERAL GUIDELINES TO INSTALLER. ACTUAL ATTACHMENT HEIGHTS SHALL BE FIELD DETERMINED BY INSTALLER TO PROVIDE REQUIRED SIGNAL HEAD MOUNTING HEIGHTS AND CLEARANCE FROM EXISTING UTILITIES.
12. SAWCUTS AND REMOVAL OF ALL CONCRETE ASSOCIATED WITH CURB CUT RAMPS SHALL BE INCLUDED IN THE SIDEWALK PAY ITEM.
13. THE CONTRACTOR SHALL REPLACE IN KIND AND SIZE, AT NO SEPARATE EXPENSE TO THE DEPARTMENT, ANY BARRIER WALL, FENCE, DITCH PAVING, CURBING, SIDEWALK, GUTTER, SLOPE PAVEMENT, SIGNS, GUARDRAILS, LANDSCAPING, GRASSINGS, UTILITY SERVICE LINES, STORM DRAIN PIPES, MASONRY WALLS AND PAVING THAT IS REMOVED, DAMAGED OR DESTROYED, DUE TO CONTRACTOR'S ACTIVITY.
14. ANY TRAFFIC MARKING, SYMBOLS OR STRIPING TO BE REMOVED, REPAINTED, AND/OR REPLACED SHALL BE PAID FOR IN THE TRAFFIC CONTROL LUMP SUM ITEM.
15. VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL BE ALL YELLOW IN COLOR. VEHICLE SIGNAL HEADS SHALL HAVE TUNNEL VISORS AND, EXCEPT FOR OPTICALLY PROGRAMMED SIGNALS, SHALL BE MADE OF POLYCARBONATE MATERIAL. VEHICLE SIGNAL HEADS SHALL BE EQUIPPED WITH GELCORE, OR EQUIVALENT, EXPANDED VIEW PIXEL DISPLAY LED MODULES.
16. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH "CLAMSHELL" TYPE BRACKET ASSEMBLIES AND SHALL BE EQUIPPED WITH GELCORE, OR EQUIVALENT, FULL HAND/MAN LED MODULES.
17. PUSH BUTTON STATIONS THAT ARE INSTALLED ON A PEDESTAL POLE FOR TWO PERPENDICULAR CROSSINGS SHALL BE MOUNTED ON A "DOUBLE PUSHBUTTON STATION ADAPTER". PEDESTRIAN PUSHBUTTONS SHALL BE INSTALLED WITHIN 10" OF SIDEWALK WITH SIGN ARROW INDICATING THE CROSSING DIRECTION. PEDESTRIAN PUSHBUTTONS AND SIGNS SHALL BE RIO-3E, POLARA (9"X15"), OR EQUIVALENT.
18. HOT DIP GALVANIZED WELDLESS RINGS SHALL BE USED FOR SPAN WIRE JUNCTIONS. GUY ANCHORS SHALL BE GALVANIZED.

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 Heath & Lineback Engineers INCORPORATED 2390 CANTON ROAD, BUILDING 200 MARIETTA, GEORGIA 30066-5393 (770)424-1668
 Kimley-Horn and Associates, Inc. Engineering, Planning, and Environmental Consultants Suite 220, 2 Sun Court Norcross, Georgia 30092

REVISION DATES	

STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: CONSULTANT DESIGN SIGNAL PLANS
NHSTP-0075-03 (203) UNION GROVE RD AT I-75
DRAWING No. 27-002