

# QUANTITY SUMMARIES

[illegible]

SUMMARY NOTES:

- ① EIGHT (8) PHASE CONTROLLER (INCLUDING EAGLE SIGNAL EQUIPMENT, PS-2, TYPE 1 WITH TS-1 EAGLE E-PAC M40 PLUS CONTROL EQUIPMENT WITH 9" BLACK AND WHITE MONITOR), AND CABINET SHALL MEET ALL REQUIREMENTS OF THE VDOT SPECS, SECTION 703, BE COMPATIBLE WITH THE SALEM DISTRICT VDOT STANDARDS AND BE SUPPLIED AND INSTALLED BY THE CONTRACTOR, WIRED WITH ALL CIRCUITRY AND LOGIC NECESSARY TO PROVIDE THE FUNCTION OF EIGHT(8) PHASE OPERATION. THE CONTROLLER CABINET SHALL INCLUDE ALL CORRESPONDING RELAYS, AUXILIARY EQUIPMENT AND SIGNAL MONITORING UNIT CAPABLE OF MONITORING A COMPLETE EIGHT(8) PHASE OPERATION ALTHOUGH THE CONTROLLER SHALL INITIALLY BE USED TO OPERATE PHASES AS SHOWN IN THE PHASING DIAGRAM AND COLOR SEQUENCE CHART OF THE PLAN SHEET. THE CONTROLLER SHALL BE CAPABLE OF SERVING AS A STAND ALONE CONTROLLER OPERATING IN AN ACTUATED OR NON-ACTUATED MODE. 3M PREEMPTION CIRCUITS SHALL BE PROVIDED IN CONTROLLER. CONTROLLER CABINET SHALL HAVE A NUMBER 2 KEY LOCK.
- ⑤ COMBINATION LUMINAIRE MAST ARM. POLES SHALL BE STANDARD MP-1. THE NUMBER OF ANCHOR RODS SHALL BE AS REQUIRED BY MANUFACTURE. THE COMBINATION LUMINAIRE POLES SHALL HAVE LUMINAIRE EXTENSION WITH 10" ELLIPTICAL ARMS, 2" SUPPITTERS, AND ORIENTATION AS SHOWN ON THE PLAN SHEET. CONTRACTOR SHALL SUPPLY COBRA HEAD LUMINAIRES.
- ⑥ THE RTE. 460/WAL-MART SIGNALS, AND THE EXISTING SIGNALS AT RTE. 460/ALT. 220 SHALL BE INTERCONNECTED. THE CONTRACTOR SHALL INSTALL SPREAD SPECTRUM REMOTE RADIO IN EACH CONTROLLER CABINET AND YAGC ANTENNA MOUNTED ON TOP OF THE MAST ARM POLE AT BOTH INTERSECTIONS. CONTRACTOR COORDINATE THIS WORK WITH VDOT.
- ⑦ LOOP DETECTOR WIRE SHALL BE #14 STRANDED XHHW, LEAD IN CABLE 3M #30003 AND LOOP SEALANT SHALL BE 3M PRODUCT.

- 9 THIS BID ITEM INCLUDES ITERIS VANTAGE PLUS 4 CHANNEL PROCESSOR WITH TWO CAMERAS, MASTER ARM MOUNTED, VANTAGE PLUS DETECTORS, AND ALL OTHER EQUIPMENT REQUIRED FOR A COMPLETE IN PLACE SYSTEM THAT IS COMPATIBLE TO SALEM DISTRICT VDOT STANDARDS.
- 10 EMERGENCY PREEMPTION CONDUCTOR CABLE.
- 11 ELECTRICAL SERVICE FOR STREET LIGHTS SHALL BE STD. SE-3 (OVERHEAD DROP), 60 AMP SERVICE, 2 POLE, 240V FUSED DISCONNECT SWITCH, NEMA 4 ENCLOSURE TO BE MOUNTED BELOW METER, METER BASE SUPPLIED BY CONTRACTOR SHALL BE MOUNTED ON SAME POLE AS SERVICE FOR SIGNALS AND LABELED "STREET LIGHTS".
- 12 THIS BID ITEM INCLUDES COAXIAL CABLE FOR SPREAD SPECTRUM REMOTE RADIO AND YAGE ANTENNA AND COAXIAL CABLE FOR VIDEO CAMERA CONNECTION.
- 13 LOOP DETECTOR AMPLIFIERS SHALL BE SINGLE CHANNEL, STAND ALONE LOOP AMPLIFIERS.

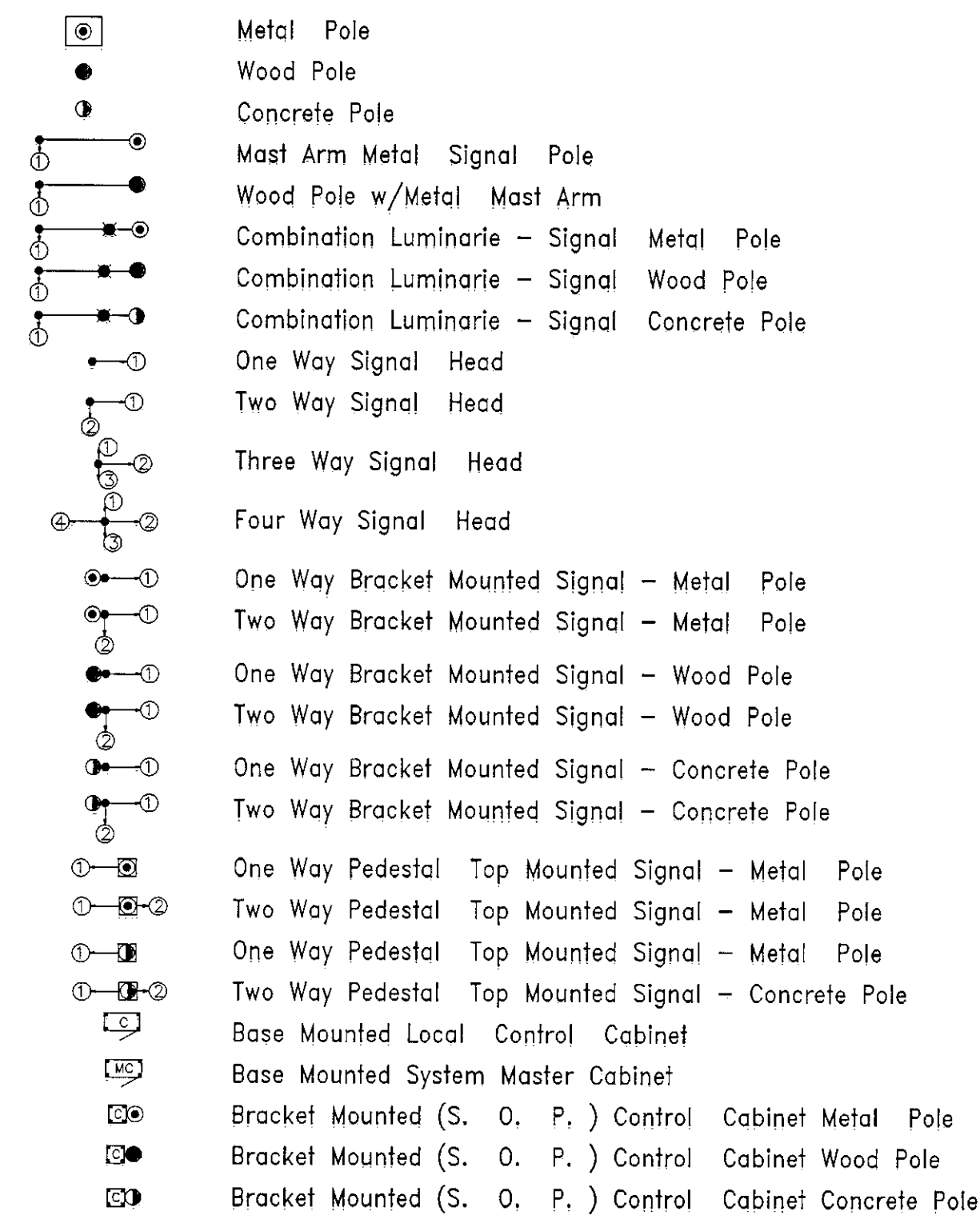
8. PRICE BID FOR TRENCH EXCAVATION SHALL INCLUDE PAVEMENT REMOVAL, PAVEMENT RESTORATION, TOP SOIL AND SEEDING AS WELL AS ALL OTHER ITEMS COVERED IN SECTION 700 OF VDOT SPECIFICATIONS.
9. PAINT, LIQUID ASPHALT OR TAPE WILL NOT BE ALLOWED FOR ERADICATING EXISTING PAVEMENT WORKINGS.
10. THE CONTRACTOR SHALL COORDINATE VIDEO CAMERA PLACEMENT ON THE MAJOR ARMS WITH VDOT, BOB PERDUE, (540) 387-5449.
11. ALL VIDEO EQUIPMENT SHALL BE COMPATIBLE TO SALEM DISTRICT STANDARDS.
12. CONTROLLER CABINET, VIDEO DETECTION, EMERGENCY PREEMPTION AND SPREAD SPECTRUM TRANSCIVER EQUIPMENT SHALL BE AS DESCRIBED IN SECTION 703 SPECIAL PROVISIONS FOR "SALEM DISTRICT".
13. PRIOR TO INSTALLATION, ALL TRAFFIC SIGNAL POLE FOUNDATIONS SHALL BE STAKED BY THE CONTRACTOR, AND REVIEWED BY SALEM DISTRICT TRAFFIC ENGINEERING, (540)387-5468.
14. SEE SHEET C-43 FOR PAVEMENT MARKING PLAN.

GENERAL NOTES:

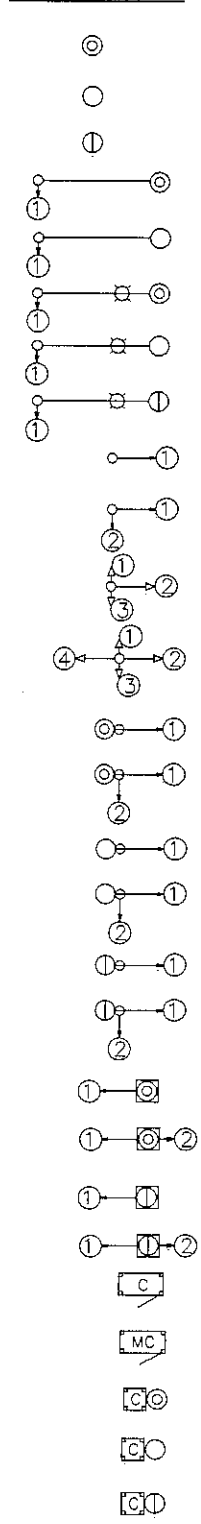
1. THE CONSTRUCTION ITEMS ON THIS PROJECT ARE TO BE INSTALLED IN ACCORDANCE WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS DATED JANUARY 1994, ROAD AND BRIDGE STANDARDS DATED JANUARY 1, 1993 AND AS AMENDED BY CONTRACT PROVISIONS AND THESE PLANS.
2. THE CONTRACTOR SHALL CONTACT "MISS UTILITY" (1-800-552-7001) AT LEAST 48 HOURS BEFORE BEGINNING EXCAVATION OR TRENCHING TO OBTAIN FIELD UTILITY LOCATIONS.
3. TRAFFIC SIGNAL CONTROL EQUIPMENT SHALL BE PROGRAMMED WITH INITIAL TIMINGS BY "SALEM DISTRICT TRAFFIC SIGNAL SHOP". PLEASE CONTACT BOB PERDUE AT 540-387-5468, 72 HOURS PRIOR TO TURNING SIGNALS ON, IN ORDER TO HAVE AMPLE TIME TO PROGRAM EQUIPMENT.
4. PAVEMENT MARKINGS ON THIS PROJECT ARE TO BE INSTALLED IN ACCORDANCE WITH SECTION 704 OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS DATED JANUARY, 1994, AND AS AMENDED BY CONTRACT PROVISIONS AND THESE PLANS.
5. PAVEMENT MARKINGS SHALL CONSIST OF CENTER LINES (4"), LANE LINES (4"), STOP LINES (24"), AND SYMBOL MARKERS (ELONGATED ARROWS) AS DEPICTED ON THE PLAN SHEET.
6. CENTER LINES AND LANE LINES SHALL BE YELLOW AND WHITE PAINT MATERIAL, RESPECTIVELY.
7. THE CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC ON ALL ROADWAYS AT ALL TIMES IN ACCORDANCE WITH THE VDOT WORK AREA PROTECTION MANUAL DATED JANUARY, 1996 AND/OR AS DIRECTED BY THE ENGINEER.

LEGEND

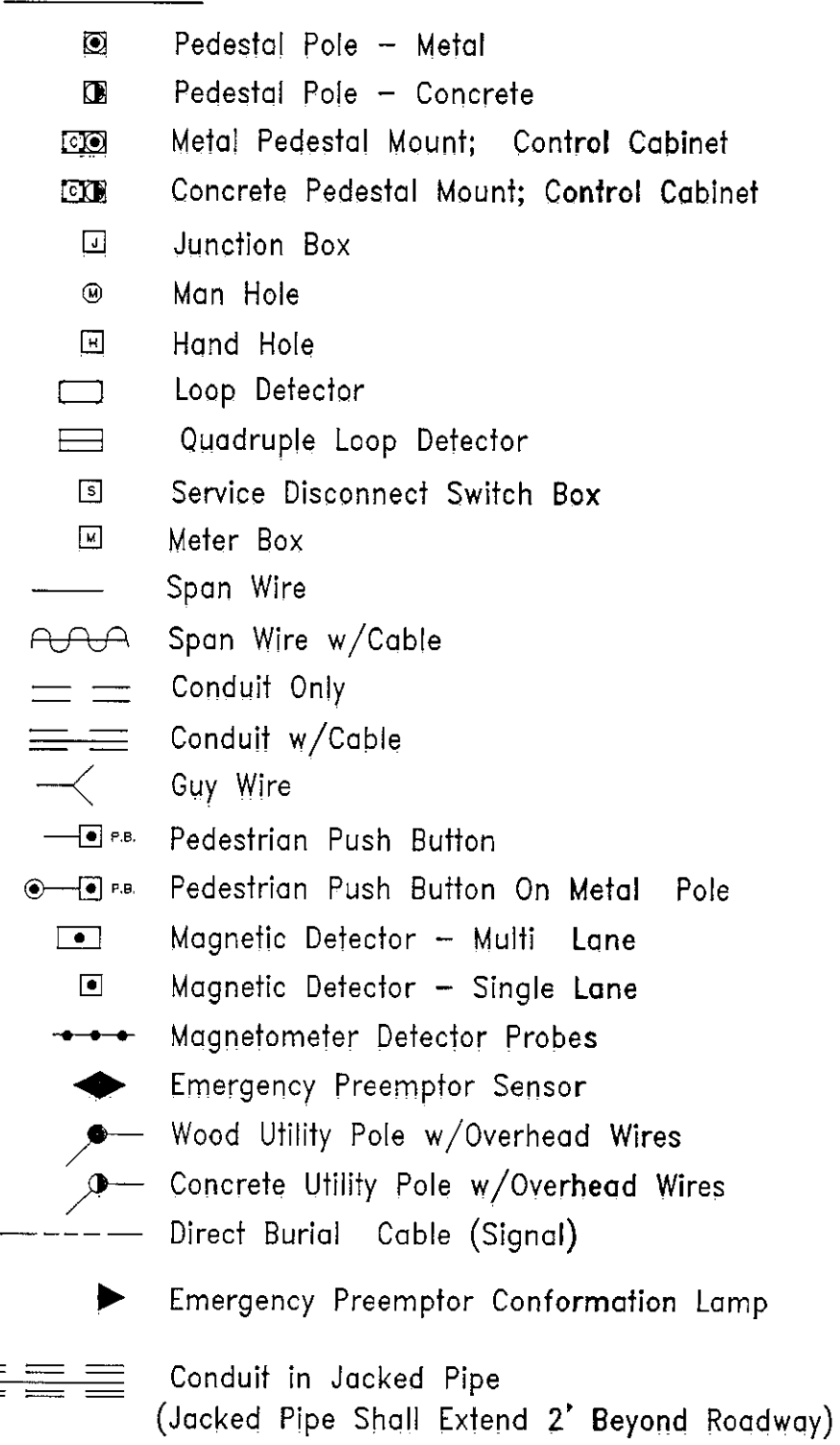
PROPOSED



EXISTING



PROPOSED



EXISTING

