

GENERAL NOTES:

1. THE FOLLOWING ITEMS AND OPERATIONS SHALL CONFORM TO THE STANDARD LISTED BELOW:
- SIGNAL POLE FOUNDATION..... PF-8
 - CONDUIT INSTALLATION..... ECI-1, ECI-2 OR BORED
 - SIGNAL HEAD HANGERS..... SM-3
 - SIGN HANGER..... SMD-2
 - JUNCTION BOXES..... JB-S1, JB-S2, JB-S3, JB-R1 OR JB-R2
2. TRAFFIC SIGNAL FOUNDATION DEPTHS AND ABOVE GROUND FOUNDATION PROJECTION/REVEAL (IF NEEDED) SHALL BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH PF-8 STANDARDS AFTER THE SIGNAL POLE SOIL TEST BORES ARE COMPLETED. SIGNAL POLES AND FOUNDATIONS SHALL BE IN ACCORDANCE WITH SPECIAL PROVISIONS OF THE CURRENT REGIONAL SIGNAL CONTRACT INCLUDING MAXIMUM LOADING CONDITIONS. THE POLE SUPPLIER SHALL PROVIDE FOUNDATION DESIGNS AND SHOP DRAWINGS THAT ARE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER. THE TOP OF ALL SIGNAL POLE FOUNDATIONS SHALL BE INSTALLED 4" ABOVE THE HIGHEST POINT OF THE ROADWAY PAVEMENT WHICH THE MAST IS EXTENDING OVER, TO ALLOW FOR REQUIRED SIGNAL HEAD TO PAVEMENT DISTANCES PER THE MUTCD. SEE NOTE 28.
3. ALL TRAFFIC SIGNAL WORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE CURRENT VERSIONS OF VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS, VDOT ROAD AND BRIDGE STANDARDS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), VIRGINIA SUPPLEMENT, NATIONAL ELECTRIC CODE AND SPECIAL PROVISION COPIED NOTED AND SPECIAL PROVISIONS AT THE TIME OF CONSTRUCTION.
4. SIGNAL POLE FOUNDATIONS MAY BE FIELD ADJUSTED WITHIN THE DESIGNATED CORNERS NO MORE THAN 2' IN ANY DIRECTION FROM THE PLAN LOCATIONS, PROVIDED THAT THE REVISED FOUNDATION LOCATION:
- REMAINS OUT OF THE CLEAR ZONE AND PAVEMENT SECTIONS.
 - REMAINS WITHIN THE RIGHT OF WAY.
 - DOES NOT CONFLICT WITH UTILITIES.
 - DOES NOT LIMIT SIGHT DISTANCE.
 - DOES NOT AFFECT DRAINAGE.
 - ALLOWS THE SIGNAL HEADS TO BE ADJUSTED WITH THE SAME ALIGNMENT WITH THE DESIGNATED TRAVEL LANES AS SHOWN ON THE PLANS, AND IS IN ACCORDANCE WITH THE PF-8 CONCRETE FOUNDATION STANDARD DETAIL REFERENCED TO THE INSTALLATION.
5. THE CONTRACTOR SHALL VERIFY MAST ARMS LENGTHS AND SIGNAL HEAD LANE COVERAGE PRIOR TO THE INSTALLATION OF SIGNAL POLE FOUNDATIONS.
6. ALL UNUSED WIRES IN THE SIGNAL HEADS SHALL BE CAPPED INDIVIDUALLY WITH CRIMP TYPE CAPS.
7. JUNCTION BOXES MAY BE RELOCATED IN THE FIELD AS NECESSARY PROVIDED THEY REMAIN WITHIN THE RIGHT OF WAY, DO NOT CONFLICT WITH UTILITIES AND REMAIN OUTSIDE THE PAVEMENT SECTION. JUNCTION BOXES SHALL BE SPACED NO MORE THAN 195' APART EXCEPT FOR COMMUNICATION CABLE CONDUITS BETWEEN INTERSECTIONS WHICH SHALL BE SPACED NO MORE THAN 500' APART.
8. VIDEO DETECTION ZONES (VDZ) SHALL BE PLACED AS SHOWN ON SHEET PLAN SHEET. THE VIDEO CAMERA PLACEMENTS AND VDZ'S MAY BE FIELD ADJUSTED AS NECESSARY IN COORDINATION WITH DISTRICT SIGNAL SHOP SUPERVISOR (540) 387-5449 TO PROVIDE OPTIMAL DETECTION CAPABILITIES. LOADING SHALL REMAIN WITHIN THE LIMITS OF THE CURRENT SWRO REGIONAL SIGNAL CONTRACT SPECIFICATIONS. WIRING SHALL BE ADJUSTED AS NECESSARY IF THE CAMERA LOCATIONS ARE MODIFIED.
9. EMERGENCY PREEMPTION DETECTORS AND CONFIRMATION LIGHTS SHALL BE LOCATED AS SHOWN ON THE PLANS, HOWEVER, MAY BE FIELD ADJUSTED AS NECESSARY TO PROVIDE OPTIMAL DETECTION CAPABILITIES. WIRING SHALL BE ADJUSTED AS NECESSARY IF THE DETECTOR AND CONFIRMATION LIGHT LOCATIONS ARE MODIFIED.
10. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY AND MAY NOT BE COMPLETE. AT LEAST 72 HOURS PRIOR TO BEGINNING SIGNAL WORK, THE CONTRACTOR SHALL CONTACT "MISS UTILITY OF VIRGINIA" AT 1-800-552-7001 IN ORDER TO DETERMINE THE EXTENT, LOCATION, AND IDENTIFICATION OF ALL OF THE UTILITIES WITHIN THE WORK AREA. IF THE CONTRACTOR PERCEIVES A CONFLICT BETWEEN UTILITIES AND THE PROPOSED TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE REVIEWED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT THEIR OWN EXPENSE, ANY EXISTING UTILITIES, PAVEMENT, CONCRETE ITEMS, ETC. THAT ARE DAMAGED OR DISTURBED DURING CONSTRUCTION.

11. AT LEAST TWO WEEKS PRIOR TO BEGINNING SIGNAL WORK, THE CONTRACTOR SHALL CONTACT SALEM SIGNAL SHOP AT 540-387-5449 TO DETERMINE THE LOCATION OF EXISTING SIGNAL EQUIPMENT.
12. CONDUIT SYSTEMS SHALL BE BONDED IN ACCORDANCE WITH SECTION 700 OF THE ROAD & BRIDGE SPECIFICATIONS. EQUIPMENT GROUNDING CONDUCTOR (EGC) NOTED IN THE CABLE & CONDUIT LEGEND IN NEW CONDUITS, ARE REQUIRED ONLY IF NECESSARY TO PROVIDE A BONDED SYSTEM.
13. AT LEAST 72 HOURS PRIOR TO THE ACTIVATION OF THE CONTROLLER THE CONTRACTOR SHALL CONTACT SALEM SIGNAL SHOP AT 540-387-5449 TO RECEIVE FINAL SIGNAL TIMINGS.
14. VERIFY EXISTING UTILITY LOCATIONS: THIS WORK SHALL CONSIST OF DIGGING TEST HOLES AT LOCATIONS SPECIFIED BY THE ENGINEER FOR THE PURPOSE OF VERIFYING THE LOCATION OF UNDERGROUND UTILITIES. EARTHEN MATERIAL, AGGREGATE, HYDRAULIC CEMENT CONCRETE OR ASPHALT USED TO BACKFILL TEST HOLES SHALL BE THE SAME QUALITY AS EXISTING.
15. ALL REMOVED SIGNAL EQUIPMENT SHALL BE DELIVERED TO THE DISTRICT SIGNAL SHOP, 731 HARRISON AVENUE, SALEM VA 24153. THE CONTRACTOR SHALL CONTACT THE DISTRICT SIGNAL SHOP AT (540) 387-5449 AT LEAST 48 HOURS PRIOR TO SCHEDULED DELIVERY.
16. CONTRACTOR SHALL REMOVE EXISTING SIGNAL POLE, MAST ARM AND ASSOCIATED EQUIPMENT ON MAST ARM AFTER NEW SIGNALS ARE IN OPERATION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK ZONE SIGNING, DELINEATION, PAVEMENT MARKINGS AND ANY OTHER TRAFFIC CONTROL DEVICES NECESSARY TO PERFORM THE WORK. UPON COMPLETION OF THE PROJECT THE CONTRACTOR WILL REMOVE ALL SUCH TEMPORARY DEVICES.
17. DISCREPANCIES BETWEEN DRAWING AND CONTRACTOR SPECIFICATION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY FOR CLARIFICATION.
18. NEW TRAFFIC SIGNAL HEADS AND OVERHEAD TRAFFIC SIGNAL SIGN SHALL BE COVERED WITH A DURABLE NON-TRANSPARENT COVER UPON INSTALLATION. THE CONTRACTOR SHALL MAINTAIN THE COVERS UNTIL THE NEW TRAFFIC SIGNAL SYSTEM IS OPERATIONAL.
19. THE CONTRACTOR SHALL EXTEND AND CAP ALL CONDUITS STUBBED FROM JUNCTION BOXES AND FOUNDATION A MINIMUM OF SIX INCHES BEYOND THE OUTER EDGE OF THE BOX OR FOUNDATION.
20. THE CONTRACTOR WILL PERMANENTLY MARK EACH CABINET AND POLE FOUNDATION INDICATING THE LOCATION OF ALL CONDUITS THAT ARE CAST IN THE FOUNDATION. THE MARKINGS WILL CONSIST OF AN ARROW FOUR TO SIX INCHES LONG WITH A LETTER DESIGNATION AS FOLLOWS: (S) - SPAR CONDUITS; (T) - CONDUITS WITH SIGNAL, LIGHTING OR DETECTION CABLES; (E) - CONDUITS WITH ELECTRICAL SERVICE CONDUCTORS FOR THE TRAFFIC SIGNAL; (G) - CONDUITS FOR GROUNDING CONDUCTORS. THE CONTRACTOR SHALL MARK PF-8 AND THE FOUNDATION DEPTH ON THE FOUNDATION. THE MARKINGS SHALL ETCHED WITH A TROWEL ONE QUARTER INCH DEEP INTO THE CONCRETE WHILE THE CONCRETE IS BEING FINISHED
21. ALL SIGNAL EQUIPMENT SHALL BE WIRED WITH A CONTINUOUS RUN FROM THE EQUIPMENT TO THE CONTROLLER CABINET. U.N.O.
22. ALL TRAFFIC SIGNAL HEAD SECTION SHALL BE 12 INCH LED AND WITH BACK PLATES EXCEPT AS OTHERWISE NOTED.
23. CONTRACTOR SHALL SUPPLY AND INSTALL ANY AND ALL EQUIPMENT REQUIRED FOR THE SIGNAL CONNECTION TO THE CONTROLLER AND ALL ITEMS REQUIRED IN THE CABINET TO PROVIDE A COMPLETE WORKING SIGNAL SYSTEM.
24. VIDEO DETECTION CAMERAS SHALL MATCH EXISTING CAMERAS (AUTOSCOPE TERRA) USED AT THE INTERSECTION UNLESS THE CONTRACTOR WISHES TO REPLACE ALL VIDEO DETECTION EQUIPMENT AT THE SIGNAL WITH APPROVED VDOT DETECTION. VDOT TRAFFIC ENGINEERING MUST APPROVE ALTERNATIVE VIDEO DETECTION EQUIPMENT.
25. CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE INTERSECTION SIGNALIZED FOR

- THE DURATION OF CONSTRUCTION. IF ANY EXISTING SIGNAL EQUIPMENT IS DAMAGED DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT AND MAINTAINING CONTINUES OPERATION OF THE SIGNAL.
26. THIS PLAN DOES NOT GUARANTEE THE LOCATION OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR TO DETERMINE ACTUAL LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO MOBILIZATION. IF CONFLICTS EXIST, NOTIFY ENGINEER.
27. SIGNAL HEADS SHALL HAVE BLACK BACKPLATES THAT MATCH EXISTING BACKPLATES AND STANDARD VISORS, UNLESS NOTED OTHERWISE. BODY COLOR OF SIGNALS AND VISORS SHALL BE FEDERAL YELLOW, MOUNTED VIA ASTRO-BRACKETS. SIGNAL HEADS SHALL BE ALUMINUM BODY WITH GLASS LENS.
28. THE CONTRACTOR SHALL FURNISH THE FOUNDATION DESIGNER WITH THE SOIL CONDITION, SLOPE CONDITION, AND ANY OTHER FIELD DATA NECESSARY TO DESIGN THE POLE FOUNDATIONS. THESE FOUNDATIONS SHALL MEET ALL THE REQUIREMENTS OF STANDARD PF-8 EXCEPT SIZE AND REBAR REQUIREMENTS WHICH WILL BE THE RESPONSIBILITY OF THE FOUNDATION DESIGNER. MAST ARM POLE FOUNDATION DESIGN SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL PRIOR TO CONSTRUCTION. FOUNDATION DESIGN SHALL INCLUDE ADDITION OF FUTURE STREET SIGNS ON THE MAST ARM. FOUNDATION DESIGNER NOTE THAT DISTURBED AREA FOR PIPE INSTALLATION IS ADJACENT TO PROPOSED SIGNAL POLE FOUNDATION AND ADJUSTMENT TO POLE FOUNDATION DESIGN MAY BE REQUIRED DUE TO DEPTH OF ADJACENT PIPE.
29. MAST ARM POLE SHALL BE STANDARD MP-1, B=20', WITH TERMINAL STRIP. MAST ARM POLE SHALL HAVE A MINIMUM OF 8 ANCHOR BOLTS. MAST ARM ATTACHMENT TO MAST ARM POLE SHALL BE A MINIMUM OF 8 BOLTS. SIGNAL POLE, MAST ARM AND FOUNDATION SHALL BE DESIGNED PER REGIONAL SIGNAL CONTRACT LOADING. MAST ARM POLE FOUNDATION SHALL BE STD. PF-8.
30. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE OR DESTROY EXISTING CONDUITS OR LOOP DURING GRADING.
31. INSTALL CONDUITS PER STD. ECI-1.
32. EMERGENCY PREEMPTION CONDUCTOR CABLE SHALL BE 3 CONDUCTOR 3M MODEL 138. CONFORMATION LIGHT SHALL BE #14-3 CONDUCTOR.
33. CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUCTOR CABLE AND CONDUIT REQUIRED FOR A COMPLETE WORKING SIGNAL SYSTEM.
34. 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 2007, AND AS AMENDED BY CONTRACT PROVISIONS AND THESE PLANS.
35. PAVEMENT MARKINGS SHALL CONSIST OF CENTER LINES (6"), LANE LINES (6"), STOP LINES (24"), AND SYMBOL MARKERS (ELONGATED ARROWS) AS DEPICTED ON THE PLAN SHEET.
36. CENTER LINES AND LANE LINES SHALL BE YELLOW AND WHITE PAINT MATERIAL, RESPECTIVELY. STOP BARS AND ELONGATED ARROWS SHALL BE TYPE B, CLASS IV PAVEMENT MARKINGS.
37. THE CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC ON ALL ROADWAYS AT ALL TIMES IN ACCORDANCE WITH THE VDOT WORK AREA PROTECTION MANUAL DATED 2011 AND/OR AS DIRECTED BY THE ENGINEER, UNLESS NOTED OTHERWISE.
38. TRENCH EXCAVATION SHALL INCLUDE, TOP SOIL AND SEEDING AS WELL AS ALL OTHER ITEMS COVERED IN SECTION 700 OF VDOT SPECIFICATIONS. ALL CONDUITS UNDER PAVED AREAS SHALL BE BORED.
39. PAINT, LIQUID ASPHALT OR TAPE WILL NOT BE ALLOWED FOR ERADICATING EXISTING PAVEMENT MARKINGS.
40. THE CONTRACTOR SHALL COORDINATE VIDEO CAMERA PLACEMENT ON THE MAST ARMS WITH VDOT, (540)387-5449.
41. PRIOR TO INSTALLATION, ALL TRAFFIC SIGNAL POLE FOUNDATIONS SHALL BE STAKED BY THE CONTRACTOR, AND REVIEWED BY SALEM DISTRICT TRAFFIC ENGINEERING PER VDOT SPEC. SECTION 700.04, (540)387-5449.
42. THE AS-BUILT AND P.E. SEALED CLEARANCE INTERVALS SHEET SHALL BE PLACED IN THE CABINET AT THE COMPLETION OF THE CONSTRUCTION.

UTILITY CONTACTS:

TRAFFIC ENGINEERING
AGENCY: VIRGINIA DEPARTMENT OF TRANSPORTATION
ADDRESS: 714 BROAD ST, P.O. BOX 3071 SALEM, VA 24153
CONTACT: BRIAN BLEVINS
PHONE: (757) 387-5502
CELL: (540) 491-3774
EMAIL: BRIAN.BLEVINS@VDOT.VIRGINIA.GOV

SANITARY SEWER & WATER

AGENCY: WESTERN VIRGINIA WATER AUTHORITY
ADDRESS: 201 S. JEFFERSON ST., SUITE 300, ROANOKE, VA 24011
CONTACT: DAVID VOGELSONG
PHONE: (540) 853-6888
FAX: (540) 853-1217
EMAIL: DAVID.VOGELSONG@WESTERNVIAWATER.ORG

STORM DRAINAGE & EROSION CONTROL

AGENCY: CITY OF ROANOKE DEPT. OF COMMUNITY DEVELOPMENT
ADDRESS: 5224 BERNARD DR, SW, P.O. BOX 23800, ROANOKE VA 24018
CONTACT: ROBERT K. ATKINSON
PHONE: (540) 772-2095, EXT. 281
FAX: (540) 776-7155
EMAIL: RATKINSON@ROANOKECOUNTYVA.GOV

GAS UTILITY

AGENCY: ROANOKE GAS COMPANY
ADDRESS: 519 KIMBALL AVENUE, ROANOKE, VIRGINIA
CONTACT: BRETT BENNETT
PHONE: (540) 793-6104
EMAIL: BRETT.BENNETT@ROANOKEGAS.COM

ELECTRIC

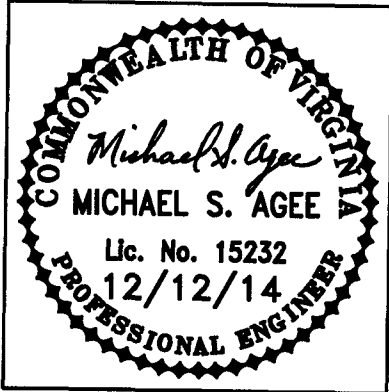
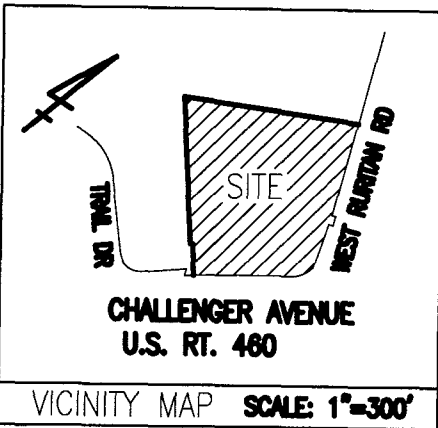
AGENCY: AMERICAN ELECTRIC POWER
ADDRESS: 802 RIVER AVENUE, ROANOKE, VA 24002
CONTACT: JR. BAILEY
PHONE: (540) 501-1343
EMAIL: J.BAILEY@AEP.COM

TELEPHONE AND INTERNET SERVICE

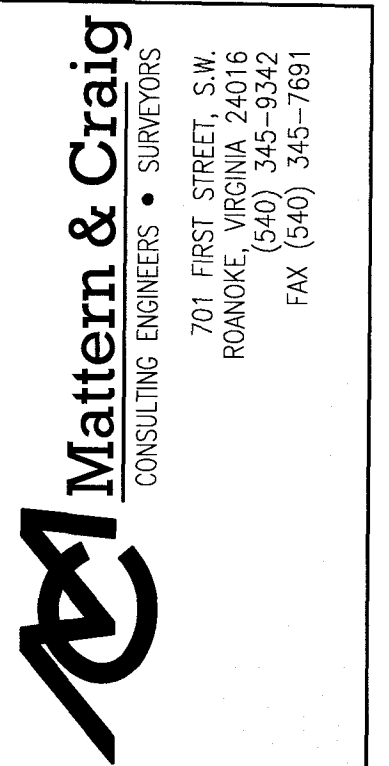
AGENCY: VERIZON
ADDRESS: 4843 OAKLAND BLVD., ROANOKE, VA 24012
CONTACT: RODNEY G. PRICE
PHONE: (540) 265-7578
EMAIL: RODNEY.G.PRICE@VERIZON.COM

CABLE

AGENCY: COX COMMUNICATIONS
ADDRESS: NOT IDENTIFIED AT THIS TIME
CONTACT: MS. ANARIZA FIGUEROA
PHONE: (757) 369-4359



Issue Date:	Dec. 12, 2014
Drawn By:	WCB
Designed By:	RSN
Checked By:	THL
Date:	Dec. 1, 2014



COLOR SEQUENCE CHART

NOTES: CONTROLLER TO REST Ø2-6 GREEN
CONTROLLER TO START/RESTART Ø2-6 GREEN

SIGNAL	R/W	Ø1-5							
		CLEAR TO Ø1-6	CLEAR TO Ø2-5	CLEAR TO Ø2-6	CLEAR TO Ø3	CLEAR TO Ø4			
1	Ø	1	2	1	2	1	2	1	2
2	R	R	R	R	R	R	R	R	R
2A	R	R	R	R	R	R	R	R	R
3	R	R	R	R	R	R	R	R	R
3A	R	R	R	R	R	R	R	R	R
5	Ø	★	R	Ø	Ø	★	FY	★	★
6	R	R	R	R	R	R	R	R	R
6A	R	R	R	R	R	R	R	R	R
4	R	R	R	R	R	R	R	R	R

SIGNAL	R/W	Ø1-6							
		CLEAR TO Ø1-5	CLEAR TO Ø2-5	CLEAR TO Ø2-6	CLEAR TO Ø3	CLEAR TO Ø4			
1	Ø	1	2	1	2	1	2	1	2
2	R	R	R	R	R	R	R	R	R
2A	R	R	R	R	R	R	R	R	R
3	R	R	R	R	R	R	R	R	R
3A	R	R	R	R	R	R	R	R	R
5	FY	FY	FY	FY	FY	FY	★	★	★
6	G	A	R	A	R	G	G	A	R
6A	Ø	★	R	★	R	Ø	Ø	Ø	★
4	R	R	R	R	R	R	R	R	R

SIGNAL	R/W	Ø2-5							
		CLEAR TO Ø1-5	CLEAR TO Ø1-6	CLEAR TO Ø2-6	CLEAR TO Ø3	CLEAR TO Ø4			
1	FY	FY	FY	FY	FY	FY	★	★	★
2	G	A	R	A	R	G	G	A	R
2A	Ø	★	R	★	R	Ø	Ø	★	★
3	R	R	R	R	R	R	R	R	R
3A	R	R	R	R	R	R	R	R	R
5	Ø	Ø	Ø	★	FY	★	FY	★	★
6	R	R	R	R	R	R	R	R	R
6A	R	R	R	R	R	R	R	R	R
4	R	R	R	R	R	R	R	R	R

SIGNAL	R/W	Ø2-6							
		CLEAR TO Ø1-5	CLEAR TO Ø1-6	CLEAR TO Ø2-5	CLEAR TO Ø3	CLEAR TO Ø4			
1	FY	FY	FY	FY	FY	FY	★	★	★
2	G	A	R	A	R	G	G	A	R
2A	Ø	★	R	★	R	Ø	Ø	★	★
3	R	R	R	R	R	R	R	R	R
3A	R	R	R	R	R	R	R	R	R
5	FY	FY	FY	FY	FY	FY	★	★	★
6	G	A	R	G	A	R	A	R	A
6A	Ø	★	R	Ø	Ø	★	R	Ø	Ø
4	R	R	R	R	R	R	R	R	R

SIGNAL	R/W	Ø3							
		CLEAR TO Ø1-5	CLEAR TO Ø1-6	CLEAR TO Ø2-5	CLEAR TO Ø2-6	CLEAR TO Ø4			
1	★	★	★	★	★	★	★	★	★
2	R	R	R	R	R	R	R	R	R
2A	R	R	R	R	R	R	R	R	R
3	G	A	R	A	R	A	A	R	A
3A	G	A	R	A	R	A	A	R	A
5	★	★	★	★	★	★	★	★	★
6	R	R	R	R	R	R	R	R	R
6A	Ø	★	R	Ø	Ø	★	R	Ø	Ø
4	R	R	R	R	R	R	R	R	R

SIGNAL	R/W	Ø4							
		CLEAR TO Ø1-5	CLEAR TO Ø2-5	CLEAR TO Ø2-6	CLEAR TO Ø3	CLEAR TO Ø1-6			
1	★	★	★	★	★	★	★	★	★
2	R	R	R	R	R	R	R	R	R
2A	R	R	R	R	R	R	R	R	R
3	R	R	R	R	R	R	R	R	R
3A	R	R	R	R	R	R	R	R	R
5	★	★	★	★	★	★	★	★	★
6	R	R	R	R	R	R	R	R	R
6A	R	R	R	R	R	R	R	R	R
4	G	A	R	A	R	A	A	R	R

TRAFFIC SIGNAL HEAD	FOUNDATION	MAST ARM POLE MP-1	CONDUCTOR CABLE					CONDUIT	HANGER ASSEMBLY	TRENCH EXCAVATION	VIDIO DETECTION EQUIP.	SIGNS		TEST BORE (SIG. POLE FIN.)	RELOCATE EXIST. VIDEO DETECTION EQUIPMENT	RELOCATE EXIST. ENERG. PREEMPTION EQUIPMENT	PLUG HOLES IN EXIST. MAST ARM	REMOVE EXIST. MAST ARM, SIGNAL POLE AND FOUNDATION
12" STANDARD	CONCRETE FOUNDATION SIGNAL POLE	ONE ARM, 54'	14/4	14/7	16/3	14/3	3M MOD. 138	#8 BONDED GND.	2"	3"	SM-3, ONE WAY	SMD-2	TRENCH EXCAVATION ECI-1	CAMERA	R3-5	R3-6		
EA.	EA.	EA.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	EA.	L.F.	EA.	SF.	SF.		EA.	EA.
20	1	1	660	1070	1165	415	415	30	20	40	6	3	15	1	15	7.5	1	2
														1	2	1	1	1

FOR CONSTRUCTION

NOTE: FY DENOTES FLASHING AMBER ARROW FOR YIELDING LEFT TURN. (3RD SIGNAL HEAD DOWN FROM TOP ON A 4 HEAD SIGNAL SECTION).
★ DENOTES AMBER ARROW IN AMBER CHANGE SEQUENCE, STEADY YELLOW (2ND SIGNAL HEAD DOWN ON A 4 HEAD SIGNAL SECTION).