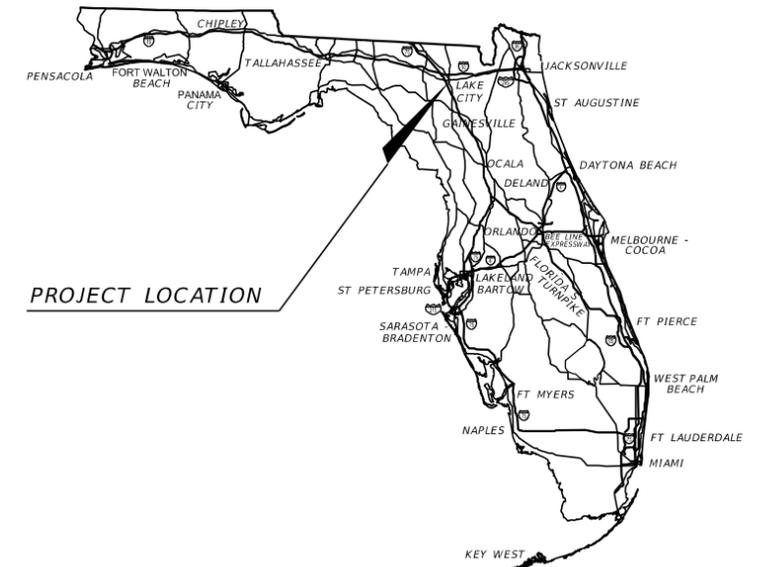




# BASCOM NORRIS DRIVE & LAKE JEFFREY ROAD SIGNALIZATION

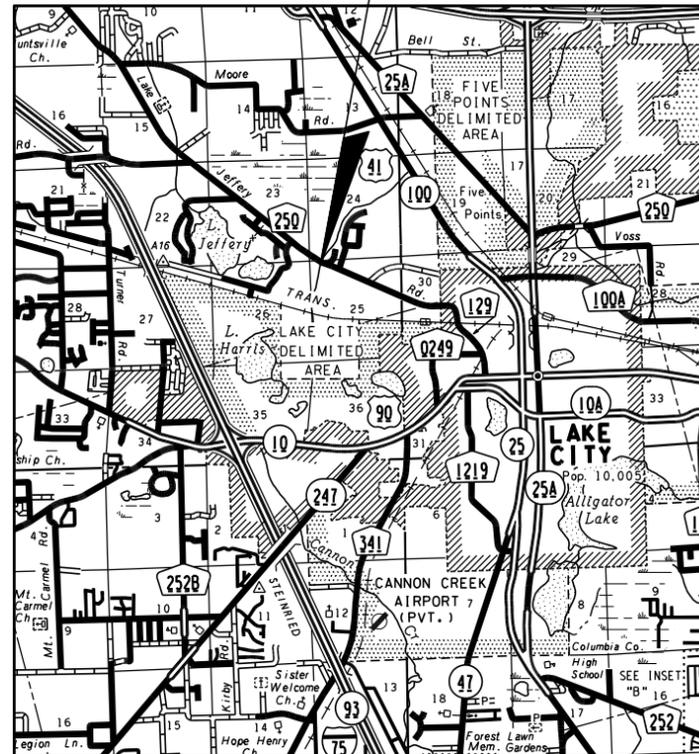
CONSTRUCTION CONTRACT NO.



PROJECT LOCATION

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ROADWAY SHOP DRAWINGS  
TO BE SUBMITTED TO:

PLANS PREPARED BY:



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

**PLANS PREPARED FOR:**  
COLUMBIA COUNTY BOARD OF  
COUNTY COMMISSIONERS  
PO DRAWER 1529  
LAKE CITY, FL. 32056-1529  
PHONE: (904) 758-1005

KEY SHEET REVISIONS	
DATE	DESCRIPTION

ROADWAY PLANS  
ENGINEER OF RECORD: GREGORY G. BAILEY, P.E.

P.E. NO.: 43858

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
###	###		



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ENG. LIC. 29011

**BASCOM NORRIS & LAKE JEFFREY**

DATE	COUNTY	PROJECT ID NUMBER
08/2014	COLUMBIA	L140810CCB

**KEY SHEET**

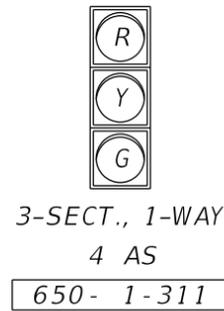
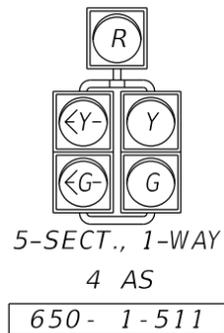
SHEET NO.

S1

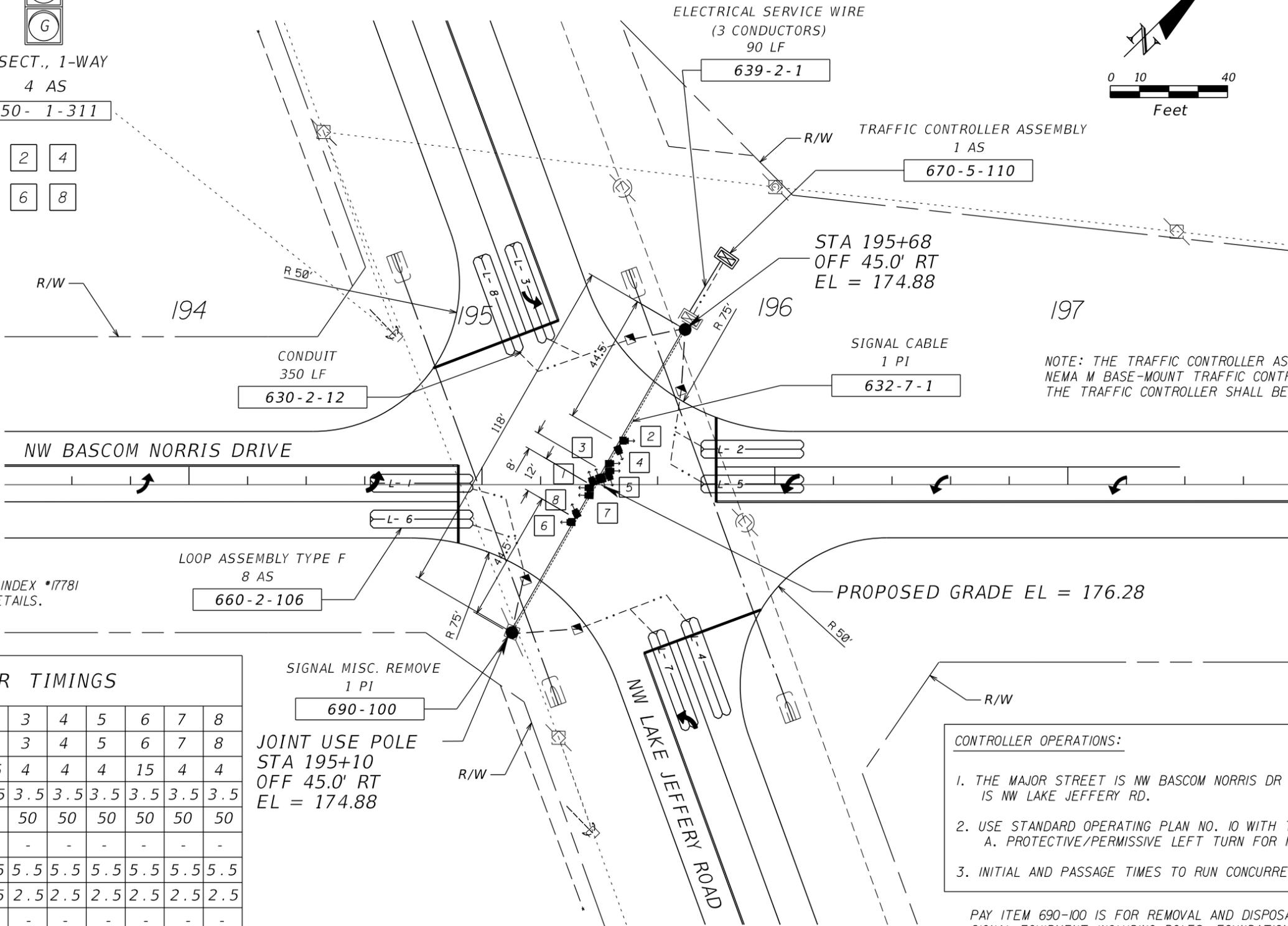
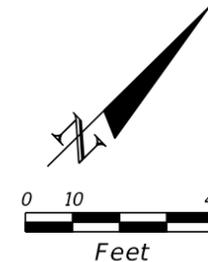
**GENERAL NOTES:**

1. UNLESS SPECIFIED OTHERWISE, ALL PULL BOX COVERS TO BE FURNISHED AND INSTALLED SHALL BE NON- METALLIC.
2. ALL CONDUIT SHALL BE 2 IN. MINIMUM UNLESS OTHERWISE SPECIFIED IN PLANS, EXCEPT ELECTRICAL POWER SERVICE DUCT.
3. THERE SHALL BE NO LOOP LEAD- INS AND SIGNAL CABLE IN THE SAME CONDUIT OR PULL BOX.
4. ONE SPARE CONDUIT RUN FROM CONTROLLER BASE SHALL TERMINATE IN THE NEAREST LOOP LEAD -IN PULL BOX AND ONE SHALL TERMINATE IN THE NEAREST SIGNAL CABLE PULL BOX.
5. WHEN A CONTRACTOR IS WORKING ON SIGNAL WORK IN AN INTERSECTION (INSTALLING CONDUIT IN THE STREET, REMOVING EXISTING SIGNAL EQUIPMENT, INSTALLING NEW TRAFFIC EQUIPMENT, INSTALLING LOOPS AND RUNS, AND TURNING ON OF NEW SIGNALS.) WHERE A LANE IS CLOSED AN OFF- DUTY LAW ENFORCEMENT OFFICER SHALL DIRECT TRAFFIC. THE HOURLY RATE OF PAY FOR AN OFF- DUTY POLICE OFFICER CAN BE OBTAINED FROM THE OFFICE OF THE LAW ENFORCEMENT OFFICE.
6. LOOP TYPES OR DETAILS ARE NOT DRAWN TO SCALE
7. THE CONTRACTOR SHALL PROVIDE A TWO MAN BUCKET TRUCK AND ASSIST THE INSPECTOR IN PHYSICALLY EXAMINING EACH SIGNAL HEAD THE SAME DAY IT IS ERECTED. COST TO PROVIDE THIS EQUIPMENT AND ASSISTANCE SHALL BE INCLUDED IN THE SIGNAL HEAD ASSEMBLY PAY ITEMS.
8. A MANUAL PUSH BUTTON CORD SHALL BE FURNISHED IN ALL CONTROLLER CABINETS.
9. ALL SIGNAL INDICATIONS SHALL BE LED. THE SIGNAL VISORS SHALL BE FULL TUNNEL VISORS. NO POLYCARBONATE HOUSING OR MOUNTING HARDWARE WILL BE PERMITTED FOR VEHICULAR OR PEDESTRIAN SIGNAL HEAD ASSEMBLIES. ALL LENSES FOR SAME SHALL BE GLASS.
10. EACH LOOP SHALL BE TREATED AS AN INDIVIDUAL LOOP WITH SEPARATE LEAD- INS FORM SPLICE POINT TO CABINET TERMINAL
11. AS DIRECTED BY THE PROJECT ENGINEER, THE CONTRACTOR SHALL ADJUST CONDUIT HORIZONTALLY AND VERTICALLY TO AVOID ANY POSSIBLE CONFLICTS WITH UNDERGROUND UTILITIES. IF NECESSARY TO AVOID CONFLICTS WITH EXISTING UTILITIES, THE CONTRACTOR SHALL ADJUST ALL OPEN TRENCHES.
12. AS DIRECTED BY THE PROJECT ENGINEER, THE CONTRACTOR SHALL FIELD ADJUST SIGNAL POLES, SIGNS, ETC. TO AVOID UTILITY CONFLICTS. THE CONTRACTOR SHALL HAND DIG THE FIRST 4 FT. FOR ALL FOUNDATIONS/FOOTERS.
13. PAYMENT FOR ELECTRICAL SERVICE WIRE NOT IN THE VERTICAL ASSEMBLY WILL BE PAID FOR PER LINEAR FT. FOR EACH WIRE REQUIRED.
14. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ( CURRENT EDITION ) AND THE DESIGN STANDARDS ( CURRENT EDITION ) UNLESS OTHERWISE NOTED.
15. LOOP TYPES ARE CENTERED IN A SINGLE LANE EXCEPT TYPE E WHICH IS CENTERED IN TWO LANES.
16. LEAD -IN MAY BE CONNECTED TO EITHER END OF LOOP.
17. THE LEADING EDGE OF LOOP TYPES A,C,D, & F MAY EXTEND PAST THE STOP LINE A MAXIMUM OF 10'. THE LENGTH OF THESE LOOPS MAY BE EXTENDED TO A MAXIMUM OF 60'. EACH INTERSECTION SHOULD BE INDIVIDUALLY DESIGNED AND IF THE MODIFICATIONS NOTED ABOVE IS REQUIRED IT MUST BE NOTED OR DETAILED IN THE PLANS.
18. USE ANCHOR BOLTS TO FASTEN BASE MOUNTED CABINETS TO THE CONCRETE BASE.
19. SEAL THE JOINT BETWEEN THE BOTTOM OF THE CABINET AND THE CONCRETE BASE (INSIDE AND OUT OF THE CABINET) WITH A CLEAR SILICONE RUBBER SEALANT.
20. CONSTRUCT THE BASE FOR THE CABINETS WITH CONCRETE IN ACCORDANCE WITH SECTION 347. MAKE THE CONCRETE BASE FOR THE CABINET LEVEL, FREE OF HONEYCOMBS AND AS SMOOTH AS POSSIBLE. TEMPORARILY SEAL THE END OF THE CONDUIT RISERS LOCATED IN THE BASE BEFORE PLACING THE CONCRETE. POSITION THE END OF THE CONDUIT RISERS A MINIMUM OF 2" ABOVE THE FINISHED SURFACE OF THE CONCRETE BASE.
21. BACK PLATES SHOULD BE INSTALLED ON ALL SIGNAL HEADS AND SHALL BE FEDERAL YELLOW IN COLOR.
22. REMOVE AND REUSE THE EXISTING STREET SIGNS.

REVISIONS				 <b>NORTH FLORIDA PROFESSIONAL SERVICES, INC.</b> P.O. BOX 3823 LAKE CITY, FL 32025 PH. 386-752-4675 FAX. 386-752-4674 P.O. BOX 180998 TALLAHASSEE, FL 32318 PH. 877-335-1525 ENG. LIC.29011	BASCOM NORRIS & LAKE JEFFREY			SHEET NO.  <b>GENERAL NOTES</b>  S2
DATE	DESCRIPTION	DATE	DESCRIPTION		DATE	COUNTY	PROJECT ID NUMBER	
###	###				08/2014	COLUMBIA	L140810CCB	



NOTE: TYPE F LOOP SHALL BE 40' LONG AND EXTEND 5' IN FRONT OF STOP BAR.



NOTE: REFER TO FDOT STANDARD INDEX #17781 FOR VEHICLE LOOP INSTALLATION DETAILS.

NOTE: THE TRAFFIC CONTROLLER ASSEMBLY CABINET SHALL BE NEMA M BASE-MOUNT TRAFFIC CONTROLLER CABINET AND THE TRAFFIC CONTROLLER SHALL BE A NEMA TSI.

CONTROLLER TIMINGS								
TIMING FUNCTION	1	2	3	4	5	6	7	8
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
MINIMUM GREEN	4	15	4	4	4	15	4	4
EXTENSION	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
MAXIMUM GREEN 1	50	50	50	50	50	50	50	50
MAXIMUM GREEN 2	-	-	-	-	-	-	-	-
YELLOW CLEARANCE	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
ALL RED	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
PEDESTRIAN WALK	-	-	-	-	-	-	-	-
PED. CLEARANCE	-	-	-	-	-	-	-	-
RECALL	OFF	MIN	OFF	OFF	OFF	MIN	OFF	OFF

NOTE: TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTING.

SIGNAL MISC. REMOVE  
1 PI  
690-100

JOINT USE POLE  
STA 195+10  
OFF 45.0' RT  
EL = 174.88

SOP 10

NOTE: REFER TO FDOT STANDARD INDEX #17870 FOR STANDARD SIGNAL OPERATIONS PLANS.

- CONTROLLER OPERATIONS:
1. THE MAJOR STREET IS NW BASCOM NORRIS DR AND THE MINOR STREET IS NW LAKE JEFFERY RD.
  2. USE STANDARD OPERATING PLAN NO. 10 WITH THE FOLLOWING:
    - A. PROTECTIVE/PERMISSIVE LEFT TURN FOR MOVEMENT 1,3,5,7.
  3. INITIAL AND PASSAGE TIMES TO RUN CONCURRENTLY.

PAY ITEM 690-100 IS FOR REMOVAL AND DISPOSAL OF ALL EXISTING SIGNAL EQUIPMENT INCLUDING POLES, FOUNDATIONS AND JUNCTION BOXES. THE REMOVAL OF EXISTING INTERCONNECT CABLE FROM INTERSECTION TO NEAREST POLE WHERE IT CAN BE CUT AND REMOVED IS TO BE PAID FOR AS 690-100.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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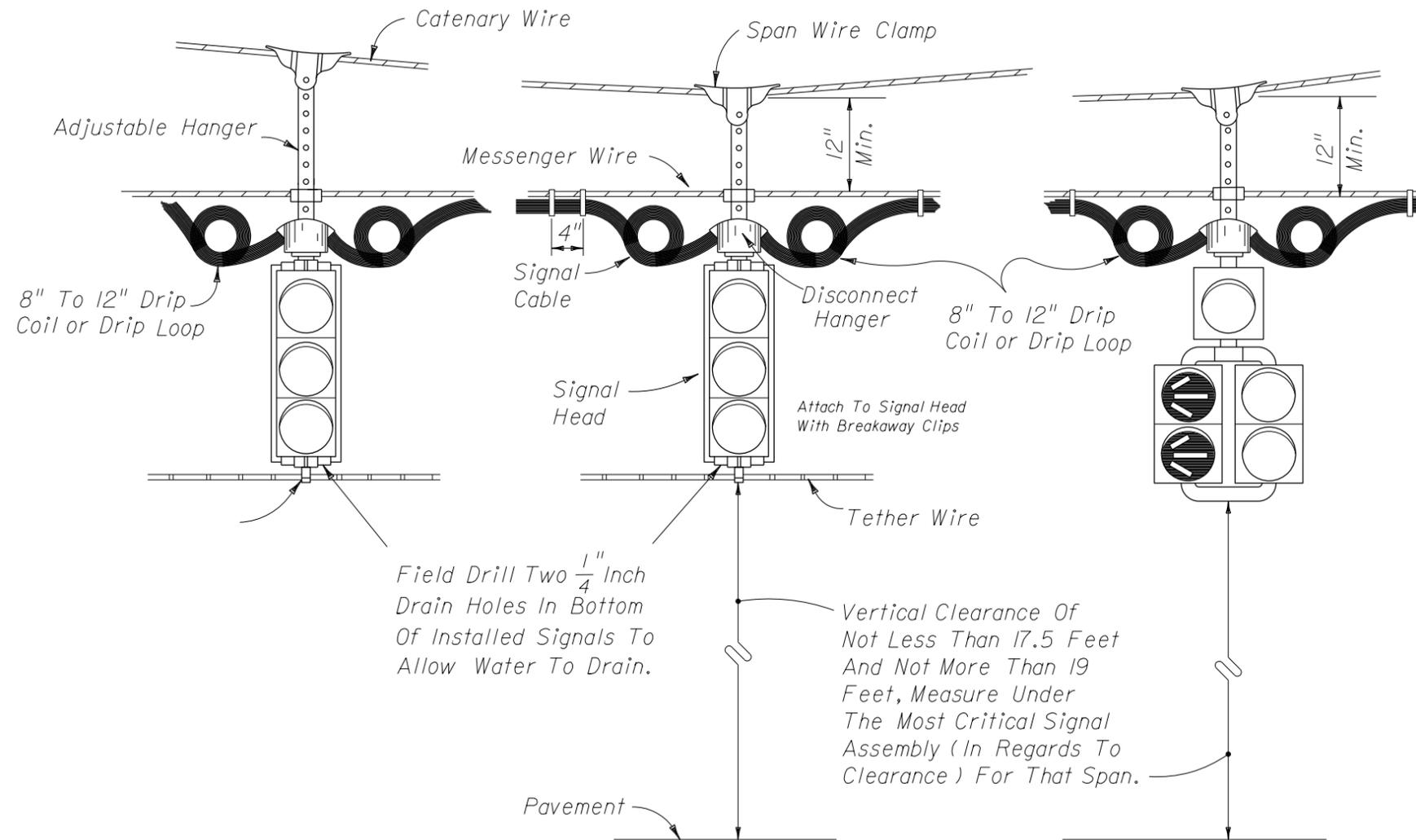
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**SIGNALIZATION PLAN**

SHEET NO.  
**53**



## SIGNAL DETAIL

### Notes:

1. With the approval of the resident engineer, the service head hole for joint use poles may be drilled by the utility company at an angle of 90° but not less than 45° to the face of the pole.
2. Lashing wire should normally be used for distances of 12' feet or greater.
3. The overlapped connection of adjustable hangers shall use a minimum of 2 bolts with a minimum spacing between bolts of 2".

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DATE	DESCRIPTION	DATE	DESCRIPTION		DATE	COUNTY	PROJECT ID NUMBER		
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