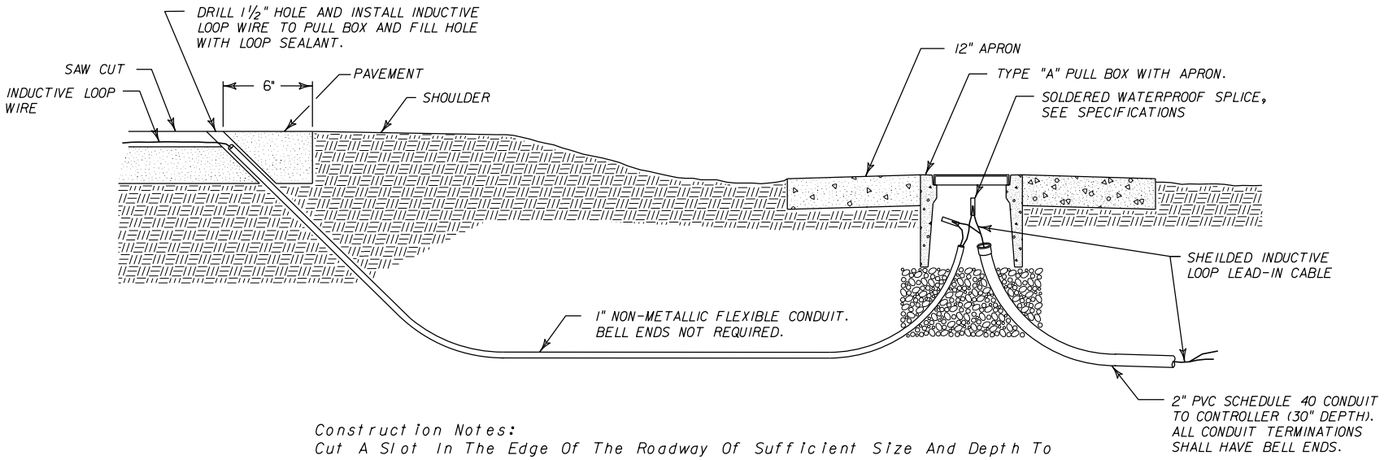


Construction Notes:
Cut A Slot In The Edge Of The Roadway Of Sufficient Size And Depth To Snugly Place The End Of The Non-Metallic Flexible Conduit. The End Of The Conduit Shall Be At Least 12" Into The Roadway And 3" Below The Top Of The Roadway Surface. The Departure Angle Of The Conduit From The Roadway Shall Be 30 To 45 degrees.

TYPICAL SECTION VIEW OF INDUCTIVE LOOP WIRE THROUGH PAVEMENT TO PULL BOX.

NOT TO SCALE

General Notes:

1. If the loop lead-in is 75' or less from the edge of the loop detector to controller cabinet, continue the twisted pair to the cabinet. If the loop lead-in is greater than 75' continue the twisted pair to the specified pull box, splice to shielded lead-in wire and continue to the controller cabinet.

2. The width of all saw cuts shall be sufficient to allow unforced placement of loop wires or lead-in cables into the saw cut. The depth of all saw cuts, except across expansion joints, shall be 3" standard with a maximum of 4".

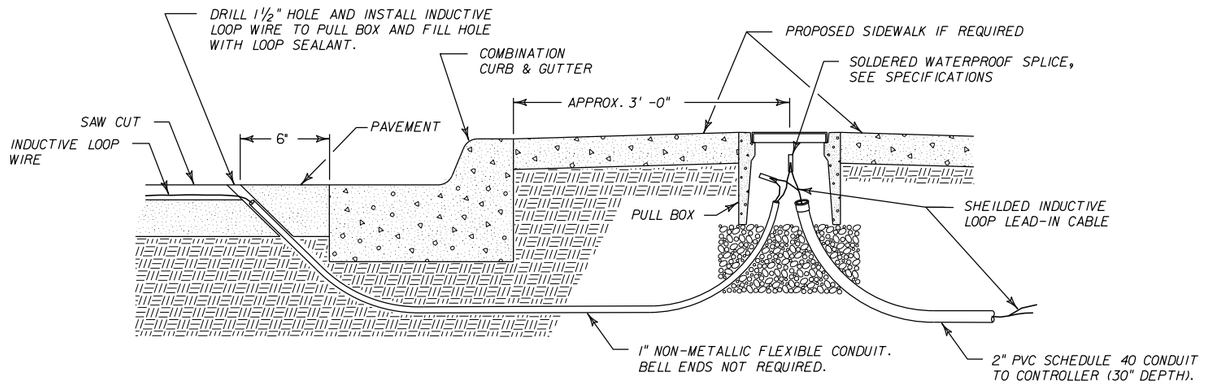
3. On resurfacing or new roadway construction projects, the loop wires and lead-in cables shall be installed in the asphalt structural course prior to the placement of the final asphalt wearing course. The loop wires and lead-in cables shall be placed in a saw cut in the structural course. The depth of the cables below the top of the final surface shall comply with note 2. Any deviation from this note shall be approved by the Signalization Engineer of Record.

4. A nonmetallic hold down material shall be used to secure loop wires and lead-ins to the bottom of saw-cuts. Hold down material shall be placed at approximately 12" intervals around loops and 24" intervals on lead-ins.

5. The minimum distance between the twisted pairs of loop lead-in wire is 6" from the loop to 12" from the pavement edge or curb.

6. Splice Connections in pull boxes with U.L. listed, watertight, insulated enclosures. Place one enclosure over the end of each conductor and place a third enclosure over the exposed end of the shielded cable.

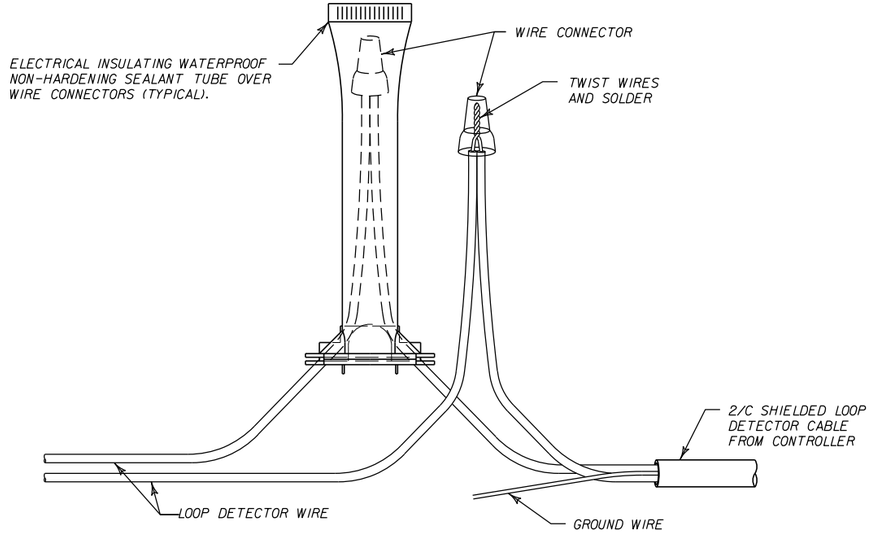
7. The maximum area of asphalt to be disturbed shall be 4"x 4". This area shall be restored as directed by the Engineer.



Construction Notes:
Drill A Hole ½" To 1" Larger In Diameter Than The Flexible Conduit To Be Used Through The Roadway Asphalt (Or Concrete) Surface And Base At An Appropriate Angle To Intercept The Trench Or Pull Box Hole. Place A Predetermined Length Of Non-Metallic Flexible Conduit In The Hole And Drive The Conduit Into The Trench Or Hole. The Top Of The Conduit Shall Be Approximately 3" Below The Roadway Surface. Fill The Hole With Loop Sealant To The Level Of The Roadway Surface. A Nonmetallic Material Should Be Used To Prevent Excessive Loop Sealant From Entering The Non-Metallic Flexible Conduit.

TYPICAL SECTION VIEW OF INDUCTIVE LOOP WIRE THROUGH CURB TO PULL BOX.

NOT TO SCALE



TYPICAL INDUCTIVE LOOP WIRE CONNECTION DETAIL

NOT TO SCALE

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

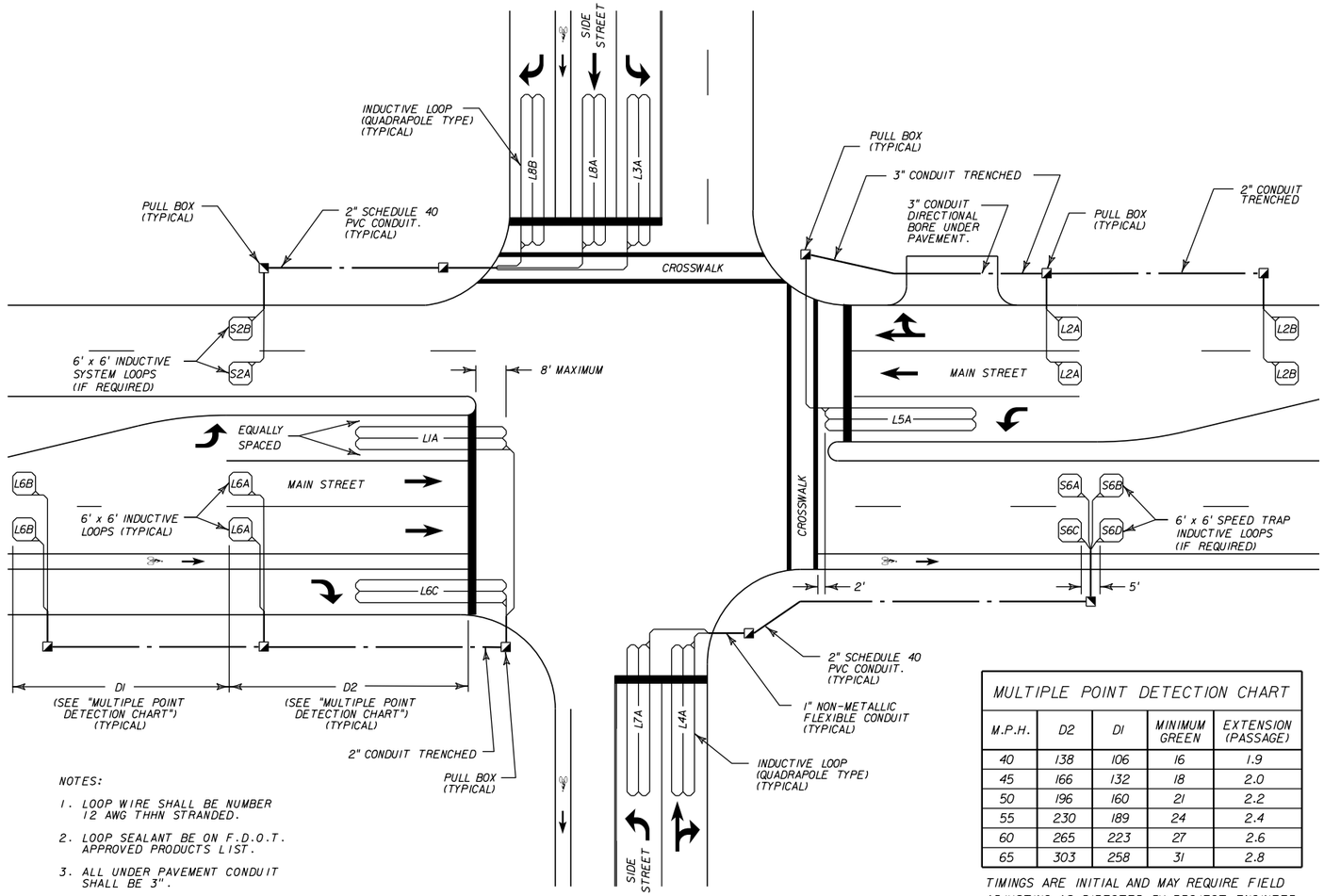
Collier County Traffic Operations
2885 South Horseshoe Drive
Naples, Florida 34104

Phone: (239) 252-8260
Fax: (239) 252-5868

COLLIER COUNTY
GROWTH MANAGEMENT DIVISION

INDUCTIVE LOOP DETECTION DETAILS

SHEET NO.
TSP-26



NOTES:

1. LOOP WIRE SHALL BE NUMBER 12 AWG THHN STRANDED.
2. LOOP SEALANT BE ON F.D.O.T. APPROVED PRODUCTS LIST.
3. ALL UNDER PAVEMENT CONDUIT SHALL BE 3".

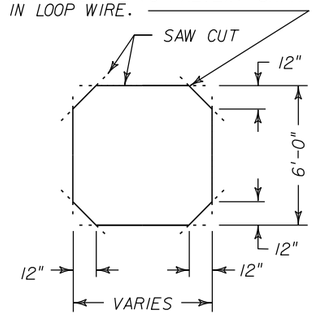
TYPICAL INDUCTIVE LOOP INSTALLATION

NOT TO SCALE

MULTIPLE POINT DETECTION CHART				
M.P.H.	D2	D1	MINIMUM GREEN	EXTENSION (PASSAGE)
40	138	106	16	1.9
45	166	132	18	2.0
50	196	160	21	2.2
55	230	189	24	2.4
60	265	223	27	2.6
65	303	258	31	2.8

TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER. INSTALL CONCURRENT TIMING OF INITIAL AND EXTENSION INTERVALS.

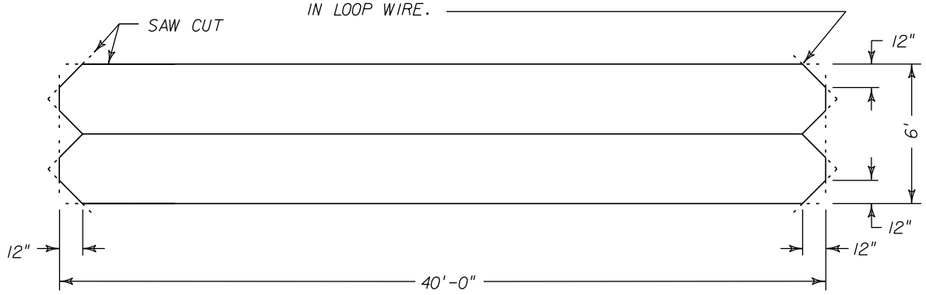
OVERLAP SHALL BE CUT SO THAT SLOTS AT ALL CORNERS HAVE FULL DEPTH AND CUT DIAGONAL TO PREVENT SHARP BENDS IN LOOP WIRE.



TYPICAL "TYPE B" VEHICLE INDUCTIVE LOOP

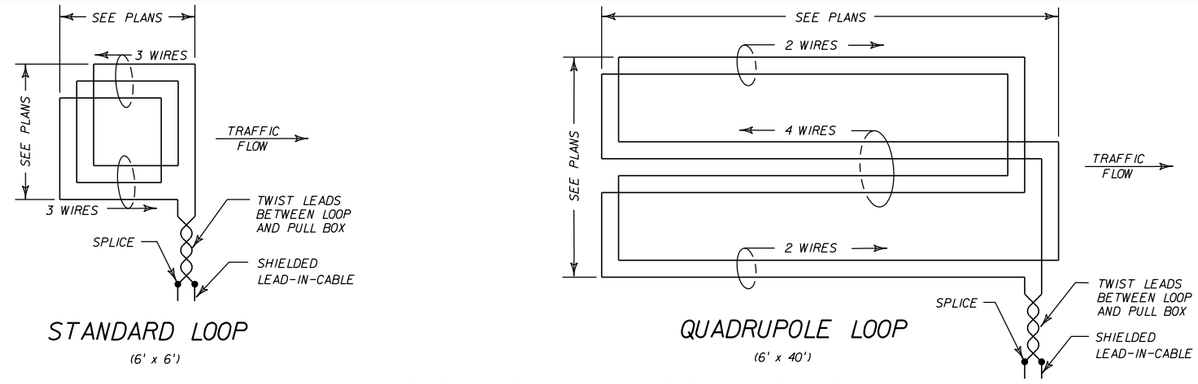
NOT TO SCALE

OVERLAP SHALL BE CUT SO THAT SLOTS AT ALL CORNERS HAVE FULL DEPTH AND CUT DIAGONAL TO PREVENT SHARP BENDS IN LOOP WIRE.



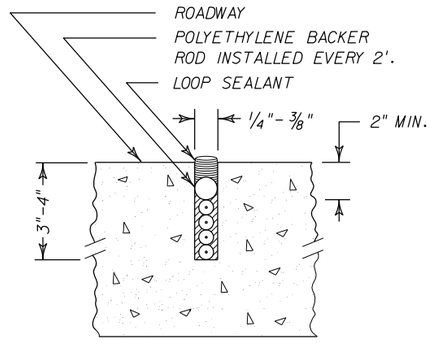
TYPICAL "TYPE F" VEHICLE INDUCTIVE LOOP

NOT TO SCALE



TYPICAL DETECTOR LOOP WIRE CONFIGURATION

NOT TO SCALE



LOOP SECTION

NOT TO SCALE

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Collier County Traffic Operations
2885 South Horseshoe Drive
Naples, Florida 34104

Phone: (239) 252-8260
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COLLIER COUNTY
GROWTH MANAGEMENT DIVISION

INDUCTIVE LOOP DETECTION DETAILS

SHEET NO.
TSP-27