TYPICAL NMC LOOP DETECTOR LAYOUT

6' X 15' NMC LOOP DETECTOR (CENTERED IN THE LANE)

TRAFFIC LANE 3 FLOW

6' X 6' NMC LOOP DETECTOR (CENTERED IN THE LANE)

TRAFFIC LANE 2 FLOW

6' X 6' NMC LOOP DETECTOR (CENTERED IN THE LANE)

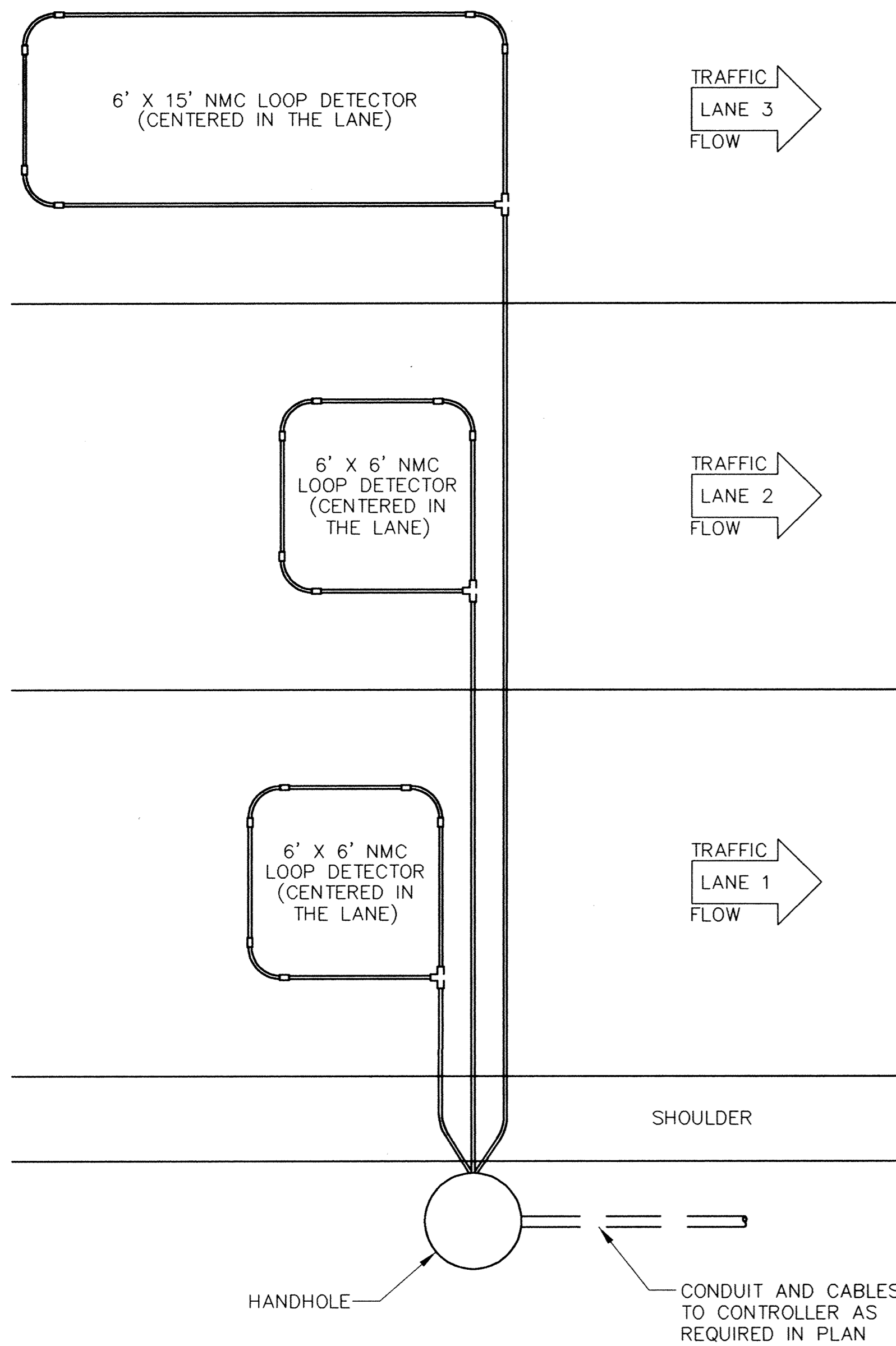TRAFFIC LANE 1 FLOW

SHOULDER

HANDHOLE

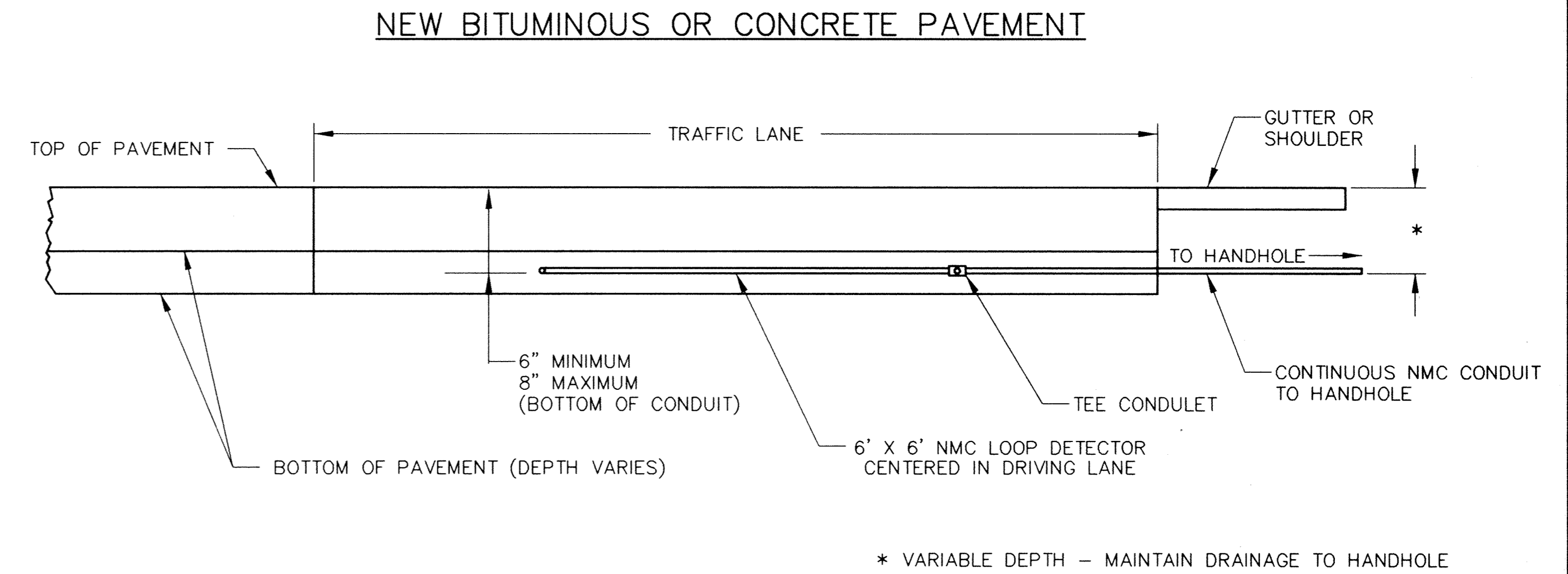CONDUIT AND CABLES TO CONTROLLER AS REQUIRED IN PLAN

GENERAL NOTES:

1. SEE SPECIAL PROVISIONS FOR REQUIRED LOOP DETECTOR CONDUCTORS, SPLICE KITS, TESTS AND ACCEPTANCE PARAMETERS.

2. THE 3/4" NON-METALLIC CONDUIT (NMC) AND FITTINGS SHALL BE SCHEDULE 40 HEAVY WALL RIGID POLYVINYL CHLORIDE (PVC). SEE SPEC. 3803.

3. THREE CORNERS OF EACH LOOP DETECTOR SHALL BE A 90° FACTORY ELBOW (6" RADIUS). THE FOURTH SHALL BE A NMC TEE CONDULET.

4. APPROVED PVC PRIMER AND CEMENT SHALL BE USED FOR THE PVC JOINTS.

5. ALL SLACK MUST BE REMOVED FROM LOOP DETECTOR CONDUCTORS WITHIN THE NMC

6. THE LOOP DETECTOR CONDUCTORS (1/C#14) SHALL BE TWISTED THREE TURNS PER FOOT FROM THE NMC TEE CONDULET TO THE HANDHOLE.

7. ATTACH A FERROUS METAL ITEM TO THE INTERIOR OF THE TEE CONDULET COVER.

8. EACH LOOP DETECTOR CONDUIT TO THE HANDHOLE SHALL BE SLOPED TOWARDS THE HANDHOLE.

9. LOOP DETECTOR CONDUITS TO THE HANDHOLE MAY BE PLACED WITHIN THE SAME TRENCH.

10. THE LOOP DETECTOR CONDUCTORS SHALL END IN THE HANDHOLE.

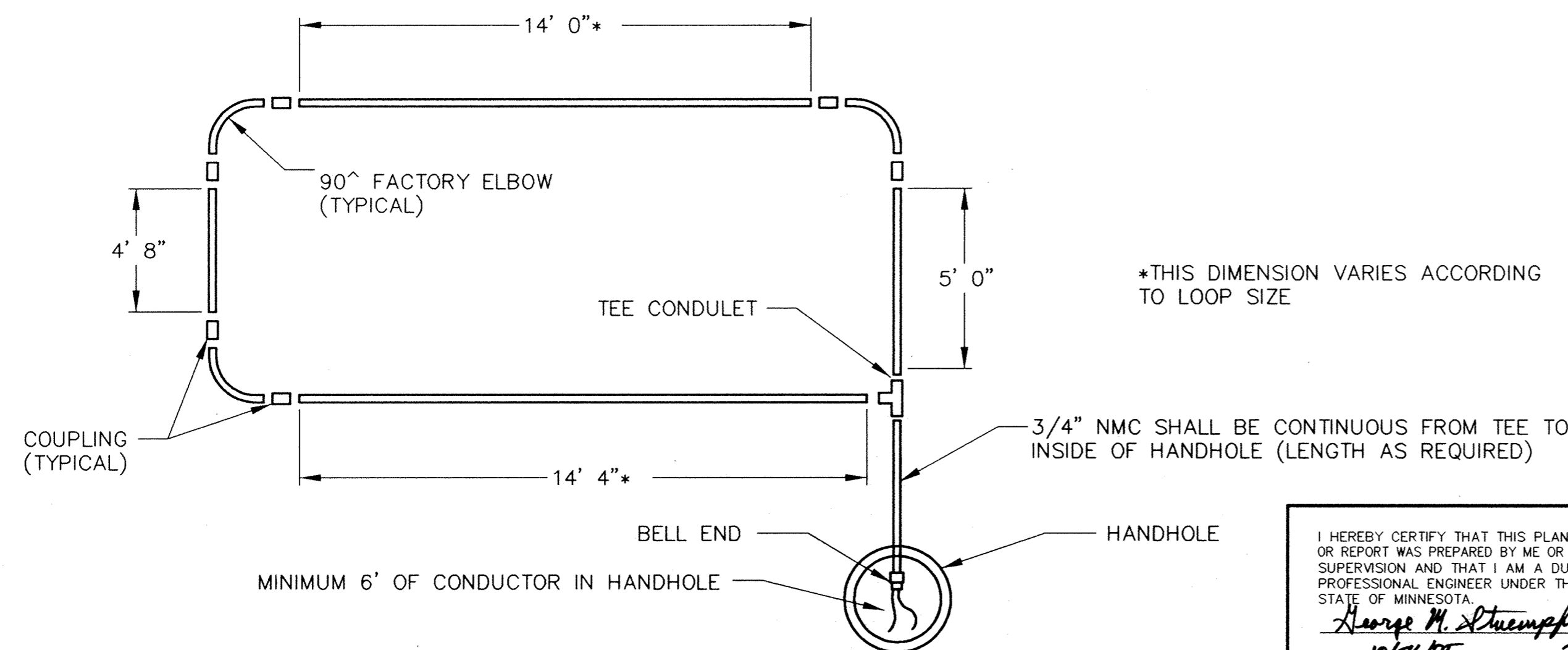11. NO SPLICES ALLOWED IN CONDUIT OR TEE CONDULET.

LOOP DETECTOR TURNS IN BITUMINOUS OR CONCRETE PAVEMENT

SIZE OF LOOP DETECTOR	6' X 6'	6' X 10'	6' X 15'	6' X 20'
NUMBER OF LOOP DETECTOR TURNS	4 TURNS	4 TURNS	4 TURNS	4 TURNS

TYPICAL NMC LOOP DETECTOR INSTALLATION

NEW BITUMINOUS OR CONCRETE PAVEMENT

TOP OF PAVEMENT

TRAFFIC LANE

GUTTER OR SHOULDER

TO HANDHOLE

6" MINIMUM 8" MAXIMUM (BOTTOM OF CONDUIT)

BOTTOM OF PAVEMENT (DEPTH VARIES)

TEE CONDULET

6' X 6' NMC LOOP DETECTOR CENTERED IN DRIVING LANE

CONTINUOUS NMC CONDUIT TO HANDHOLE

* VARIABLE DEPTH – MAINTAIN DRAINAGE TO HANDHOLE

TYPICAL NMC LOOP DETECTOR DETAIL- (6' X 15' LOOP)

14' 0"*

90° FACTORY ELBOW (TYPICAL)

4' 8"

5' 0"

*THIS DIMENSION VARIES ACCORDING TO LOOP SIZE

TEE CONDULET

3/4" NMC SHALL BE CONTINUOUS FROM TEE TO INSIDE OF HANDHOLE (LENGTH AS REQUIRED)

COUPLING (TYPICAL)

14' 4"*

BELL END

HANDHOLE

MINIMUM 6' OF CONDUCTOR IN HANDHOLE

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

George M. Stuempfig
DATE 10/26/95   REG.NO. 21849

DATE	DESCRIPTION

REVISIONS

DESIGNED GMS
CHECKED
DRAWN JL
GRAPHIC SCALE
0   N/A
0   VERT. N/A

CITY OF ELK RIVER
TRAFFIC CONTROL SIGNAL SYSTEM
SIGNAL SYSTEM DETAILS
T.H. 10 AT JOPLIN AVE./185TH AVE.

DATE SEPT 1995   SHEET 34 OF 41 SHEETS   PROJECT NO. 230-277

DRAWING NUMBER
185AV.96
27 (34 of 41)

ER277SD1

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