CONTRACTOR TO REFERENCE AND
INSTALL DETECTOR LOOPS IN SAME
LOCATION AS EXISTING LOOPS.

SEE DETAIL A

EXISTING
PULL BOX

TYPICAL LOOP LAYUP
1-2-1 QUADROPOLE

CONDUCTORS IN CENTER SLOT
MUST BE LAID UP IN SAME
DIRECTION.

DETECTOR LOOP
(QUADRAPOLE)

RED
WIRE

YELLOW
WIRE

GREEN
WIRE

YELLOW LANE
MARKERS

YELLOW LANE
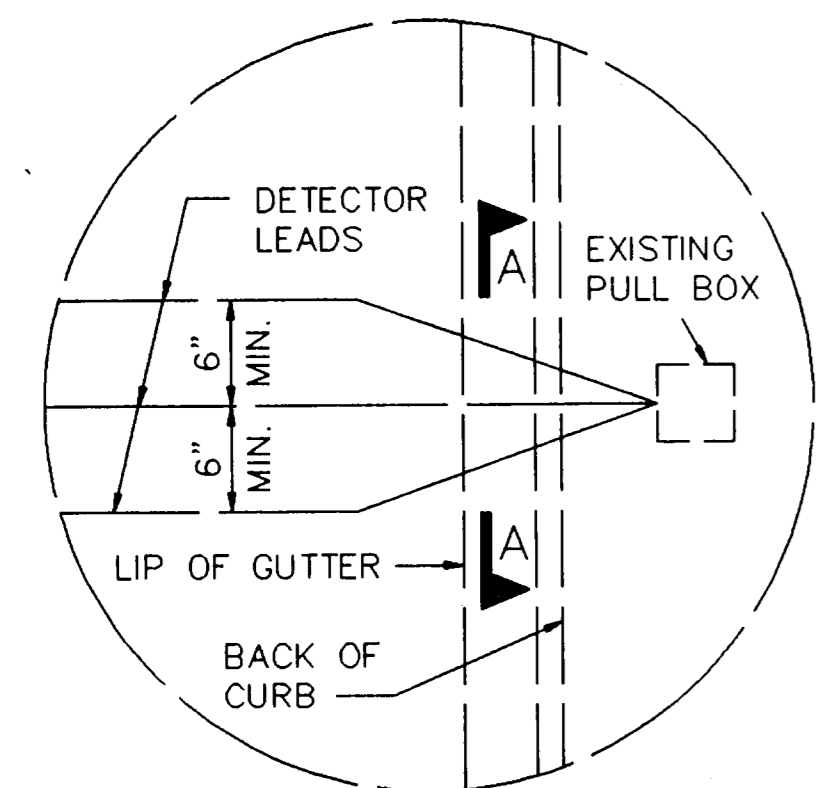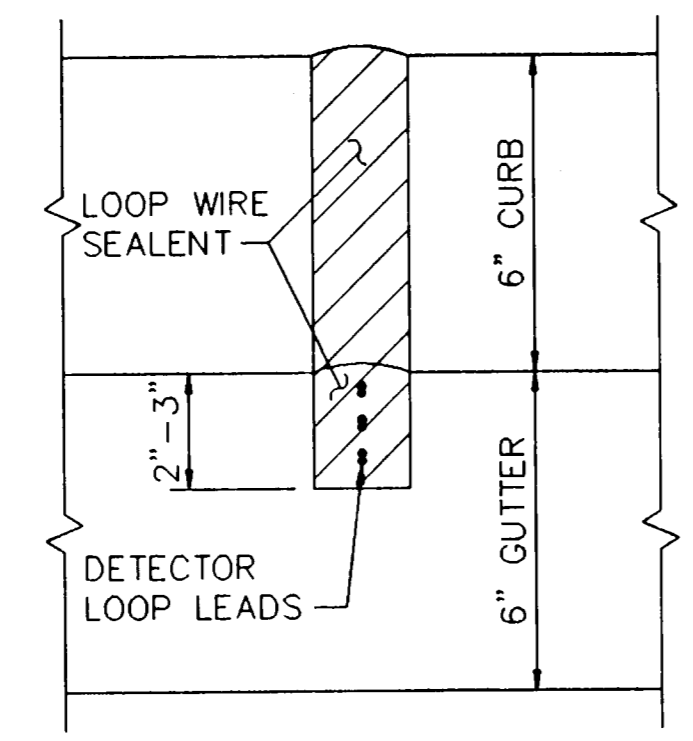MARKERS

60'

SINGLE CONDUCTOR #12 AWG, TYPE THHN

GENERAL NOTES:

1. NO NEW LOOPS ARE REQUIRED FOR WESTBOUND BELT LINE ROAD APPROACH.

2. CONTRACTOR SHALL COMPLETE ALL TRAFFIC SIGNAL IMPROVEMENT AND
   RELOCATION WORK REQUIRED FOR THIS PROJECT TO ENSURE AN OPERATIONAL
   SIGNAL SYSTEM CONSISTENT WITH THE EXISTING SYSTEM.

3. CONTRACTOR MAY OBTAIN EXISTING TRAFFIC SIGNAL LAYOUT PLANS FOR THE
   ADDISON ROAD – BELT LINE ROAD INTERSECTION FROM THE TOWN OF ADDISON.

NOTE:

WHEN SAW CUT CROSSES A TRANSVERSE EXPANSION JOINT
LOWER THE DEPTH 2" WHEN SAW IS CENTERED OVER EXPANSION
JOINT.

2.5' | 6' | 2.5' | 2.5' | 6' | 2.5' | 2.5' | 6'

WIRES TWISTED IN LEAD RUN CUT
AT LEAST, 2 TURNS PER FOOT

SAW BLADE

2" SAW CUT

APPROVED EPOXY SEALING COMPOUND

DETECTOR WIRE

EXPANSION JOINT

SAG LOOP

NOTES :

1. CONTRACTOR TO PROVIDE INDIVIDUAL
   SAWED CHANNELS THRU CURB & GUTTER
   FOR EACH WIRE LOOP.
2. SPLICE IN PULL BOXES SHALL BE
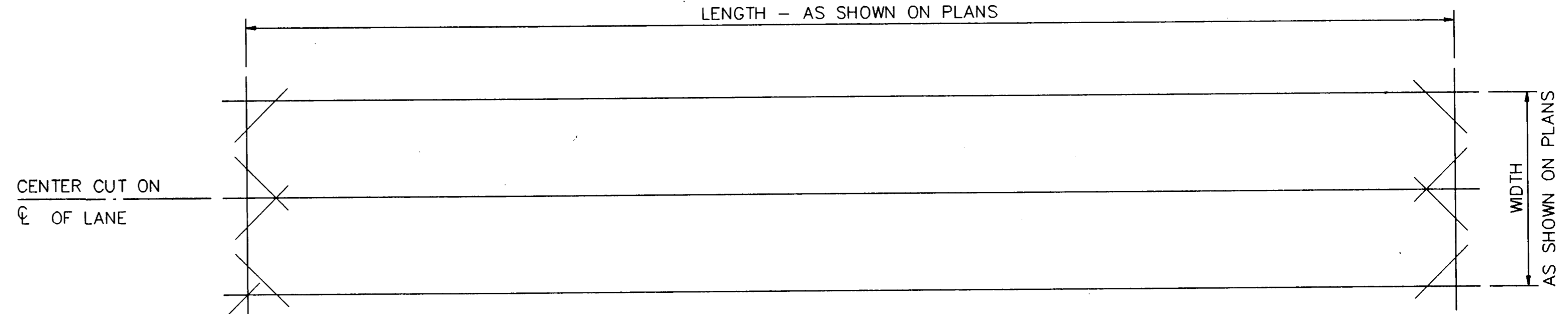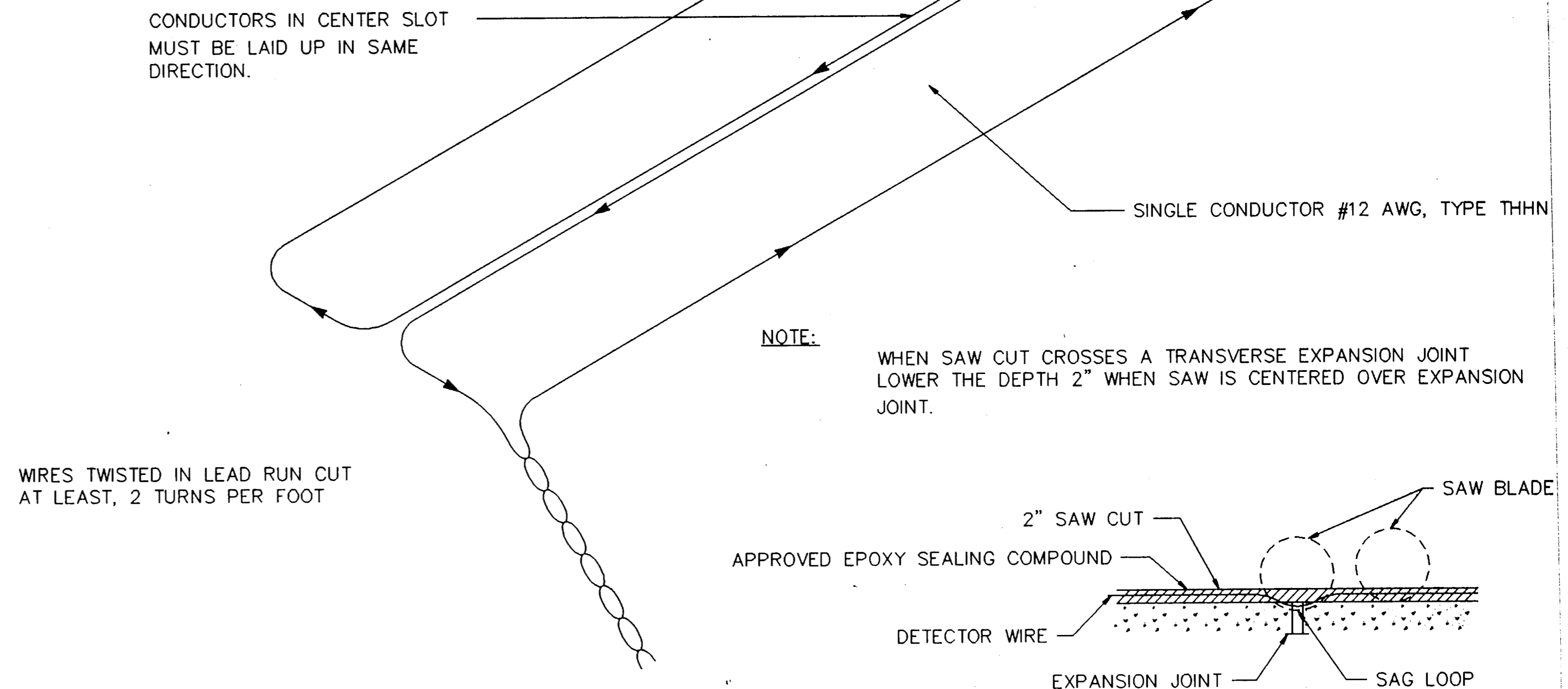   SOLDERED AND WEATHER SEALED.

PLAN

LENGTH – AS SHOWN ON PLANS

WIDTH
AS SHOWN ON PLANS

CENTER CUT ON
℄ OF LANE

DETECTOR
LEADS

EXISTING
PULL BOX

6" MIN.

6" MIN.

LIP OF GUTTER

BACK OF
CURB

LOOP WIRE
SEALENT

6" CURB

2"-3"

6" GUTTER

DETECTOR
LOOP LEADS

ENTRY ANGLE FOR
LEAD RUN VARIES

CUT FOR LEAD RUN
TO PULL BOX AT CURB

PLAN
SAW – CUT PATTERN FOR DETECTOR LOOPS

DETAIL A

SECTION A–A
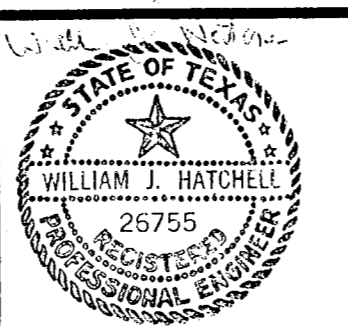### VEHICLE LOOP DETECTOR LAYOUT

1. INSTALLATION OF WIRE LOOPS IS TO BE MADE IN THE SHORTEST TIME
   PRACTICAL, NOT TO EXCEED A 4 HR. MAX. AND SCHEDULED DURING OFF
   PEAK HOURS TO MINIMIZE DELAY TO VEHICLE TRAFFIC.
2. THE PAVEMENT CUT IS TO BE CUT WITH A CONCRETE SAW TO NEAT LINES
   AND LOOSE MATERIAL REMOVED. THE CUT SHOULD BE CLEAN AND DRY WHEN
   THE SEALING COMPOUND IS PLACED.
3. THE LEAD-IN WIRES ARE TO BE TWISTED A MINIMUM OF TWO TURNS PER
   FOOT AND REMAIN UNDISTURBED AFTER THE LOOP HAS BEEN TUNED.
4. EACH LOOP IS TO BE RETURNED TO CONTROLLER VIA ONE PAIR OF UNSPLICED
   SHIELDED LEAD-IN WIRES. MULTIPLE, TWISTED LEADS TO MORE THAN ONE
   LOOP IN SINGLE LEAD RUN SAW SLOT ARE NOT PERMISSIBLE.
5. ALL LOOPS TO PENETRATE CURB IN A SEPERATE CONDUIT.

2" TO 3"

LOOPS ARE NO. 12
AWG, TYPE THHN
STRANDED SINGLE
CONDUCTOR WIRE

SEALING COMPOUND

SECTION THROUGH CUT-WIRES
INSTALLED