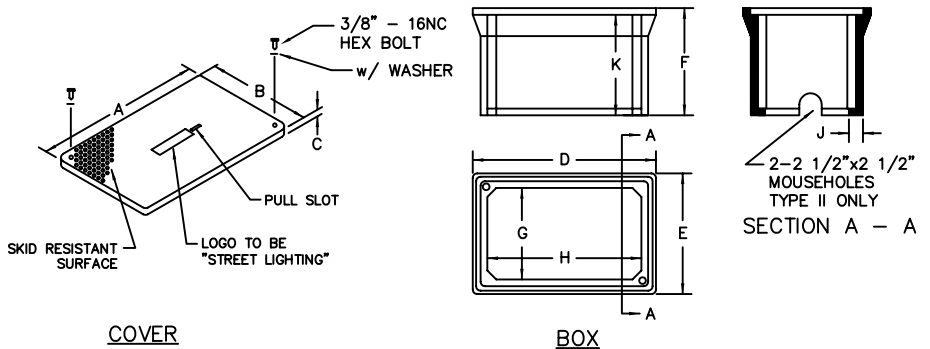


**SERVICE BOX NOTES:**

- SERVICE BOX MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH A CONTINUOUS WOVEN GLASS STRANDS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES:  
 COMPRESSIVE STRENGTH - 11,000 PSI  
 TENSILE STRENGTH - 1700 PSI  
 FLEXURAL STRENGTH - 7500 PSI
- SERVICE BOX WITH ADJUSTABLE TOP RING MAY BE ACCEPTABLE UPON APPROVAL BY THE ENGINEER.

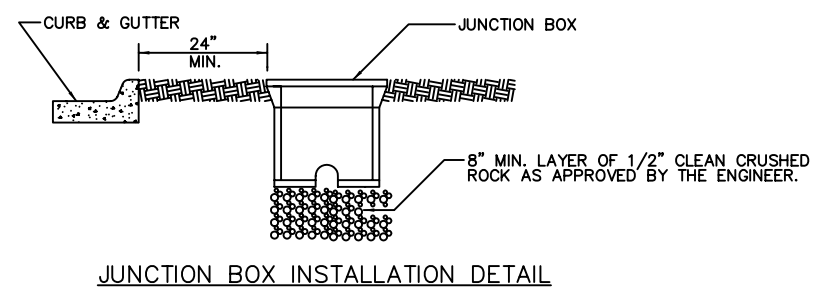


TYPE	DIMENSIONS (IN.) *									
	A	B	C	D	E	F	G	H	J	K
I	12 7/8	12 7/8	3/4	14	14	12 3/4	10 1/2	10 1/2	1	12
II	18 1/2	11 1/2	3/4	20 1/2	13 1/2	12	10 1/4	17 1/4	3/8	11 1/4

\* TOLERANCE ±1/4" IN ANY DIMENSION

FIBERGLASS REINFORCED POLYMER CONCRETE JUNCTION BOX DETAILS

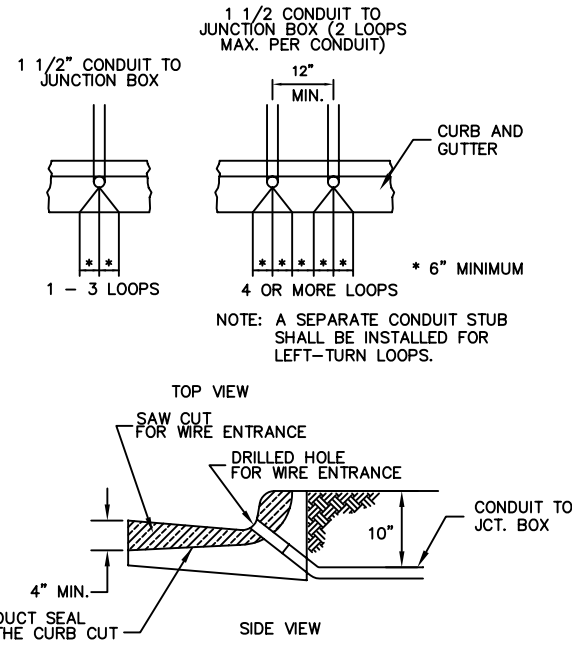
NOT TO SCALE



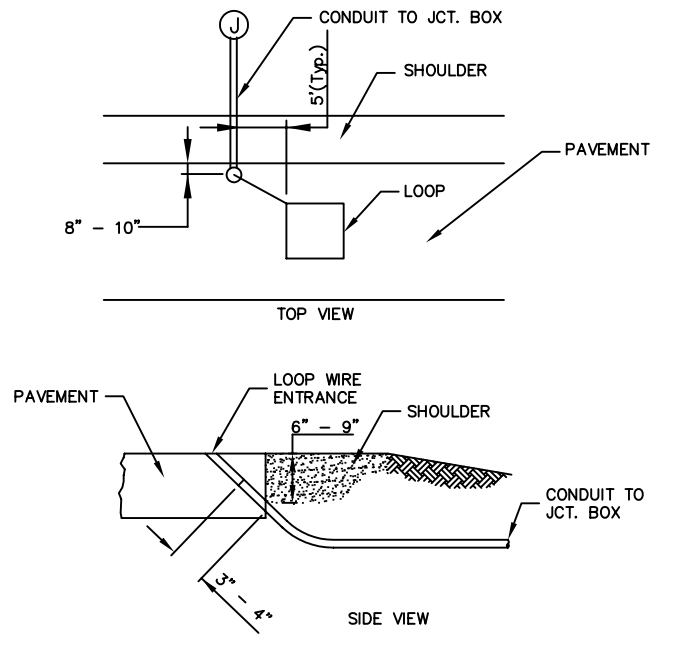
LOOP WIRE ENTRANCE DETAIL

- LOOP WIRE ENTRANCE NOTES:
- SAW CUT IN THE CURB AND GUTTER SECTION AND CONDUIT ENTRANCE TO BE SEALED WITH A Pliable, NON-HARDENING DUCT SEALANT. NO LOOP SEALANT SHALL BE APPLIED IN THE CURB AND GUTTER SECTION OR AT CONDUIT ENTRANCE.
  - GROUT AROUND CONDUIT INSERTED INTO CURB OR PAVEMENT SECTION.
  - EACH LOOP SHALL HAVE A SEPARATE LEAD-IN-SAW CUT TO THE LOOP WIRE ENTRANCE IN THE CURB OR AT THE EDGE OF PAVEMENT.

CURBED SECTION

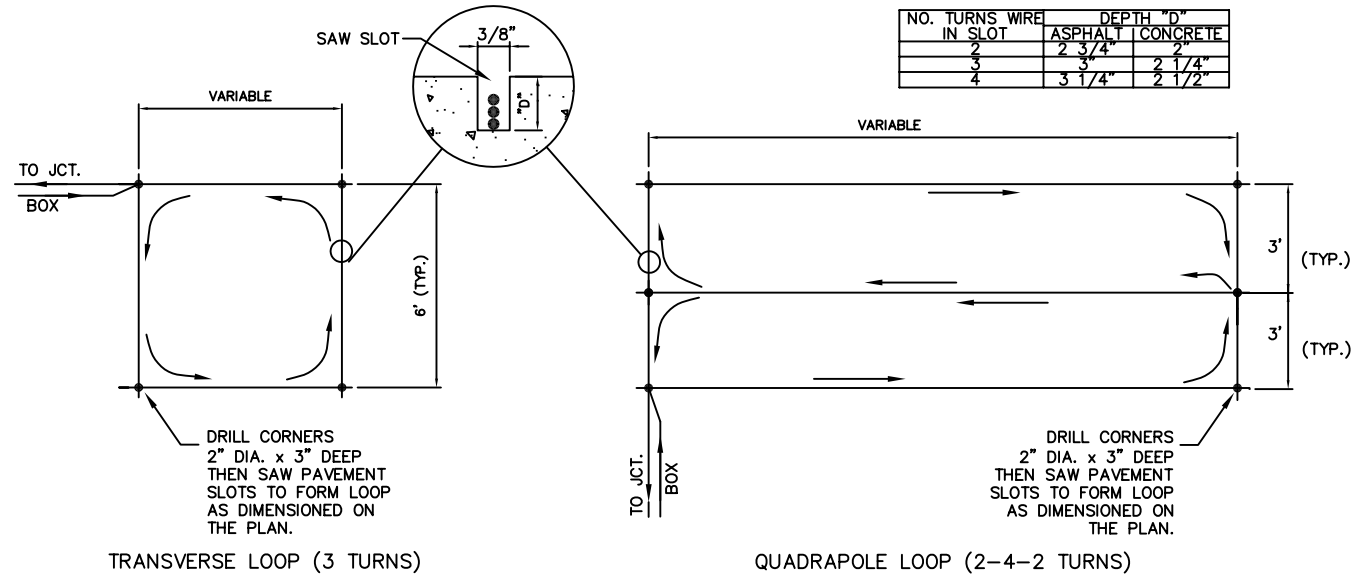


NON - CURBED SECTION

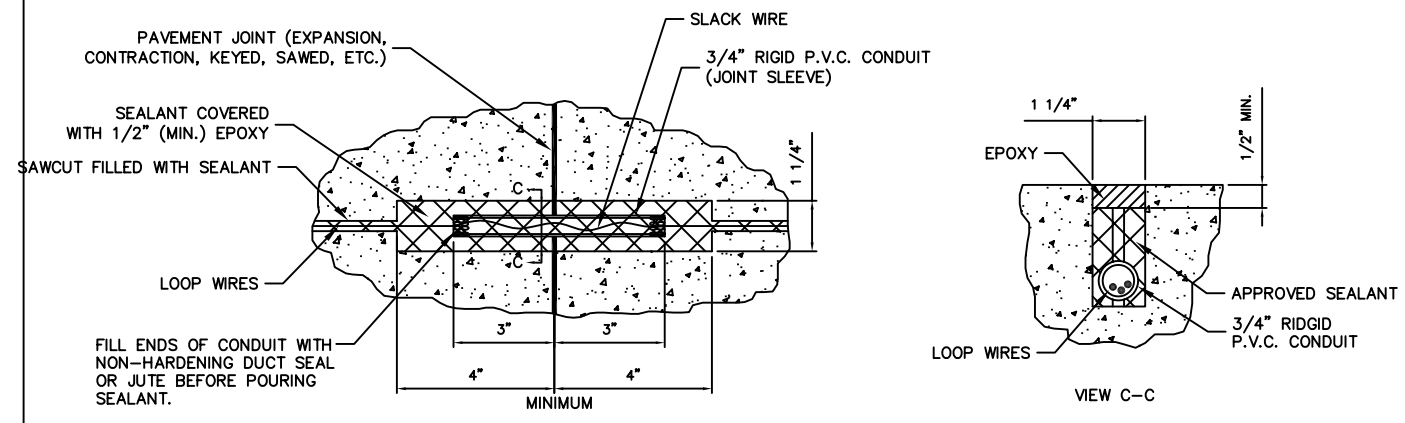


- DETECTOR LOOP INSTALLATION NOTES:
- QUADRAPOLE LOOP TO BE ONE CONTINUOUS WIRE PLACED IN TWO TURNS. ALL LOOPS TO BE WOUND IN SAME DIRECTION, WITH START AND END CLEARLY MARKED AT JUNCTION BOX.
  - TRANSVERSE LOOP TO BE ONE CONTINUOUS WIRE PLACED IN THREE TURNS. ALL LOOPS TO BE WOUND IN SAME DIRECTION, WITH START AND END CLEARLY MARKED AT JUNCTION BOX.
  - SLOT IN PAVEMENT FOR LOOPS TO BE CUT 3/8" WIDE AT MINIMUM DEPTH "D" AS INDICATED IN CHART. FILL SLOTS WITH AN APPROVED ASPHALT SEALER (ASPHALT PAVEMENT-AP) OR AN APPROVED ELASTIC EPOXY SEALANT (CONCRETE PAVEMENT-CP) TO WITHIN 1/8" OF PAVEMENT SURFACE.
  - OTHER THAN SOLDERED TYPE SPLICE OR SPLICE MADE WITH WIRE NUTS AT THEIR JUNCTION, FEEDER CABLE AND LOOP WIRE SHALL BE OF CONTINUOUS RUN WITH NO SPLICES. ALL CONNECTIONS TO BE WATERTIGHT WITH APPROVED SPLICE KITS. WATERTIGHT CONNECTIONS SHALL EXTEND TO AND ENCOMPASS EACH OUTER JACKET OF THE DETECTOR FEEDER AND LOOP WIRE CABLES.
  - ALL LEADS FOR INDIVIDUAL LOOPS TO BE KEPT SEPARATE AND LOOP WIRE BETWEEN THE LOOP AND THE FEEDER CABLE CONNECTION SHALL BE TWISTED 3 TURNS PER FOOT.
  - ALL LOOPS SHALL BE WET CUT WITH EQUIPMENT APPROVED BY THE ENGINEER.
  - WHERE LOOPS ARE TO BE INSTALLED ON PROJECTS INVOLVING EITHER ASPHALT PAVEMENT CONSTRUCTION OR MILLING AND OVERLAY OF AN EXISTING ASPHALT PAVEMENT, LOOPS SHALL BE INSTALLED IN THE BASE COURSE PRIOR TO PLACEMENT OF THE ASPHALT SURFACE COURSE.

NO. TURNS WIRE IN SLOT	DEPTH "D"	
	ASPHALT	CONCRETE
2	2 3/4"	2"
3	3"	2 1/4"
4	3 1/4"	2 1/2"



TYPICAL LOOP DETECTORS



JOINT CROSSING DETAIL

DATE	REVISION	BY	APPR

TRAFFIC SIGNAL INSTALLATION  
SERVICE BOXES, JUNCTION BOXES AND LOOP DETECTORS

PROJECT  
PUBLIC WORKS - ENGINEERING

PROJ. NO.	XX-XXXX	TSDETAIL06.DWG	02 JAN 02
DATE	XX-XX-XXXX	DETAIL 6 of 6	
DESIGNED	XXX		
DESIGN CK	XXX		
DETAILED	XXX		
DETAIL CK	XXX		

SHEET X OF XX

