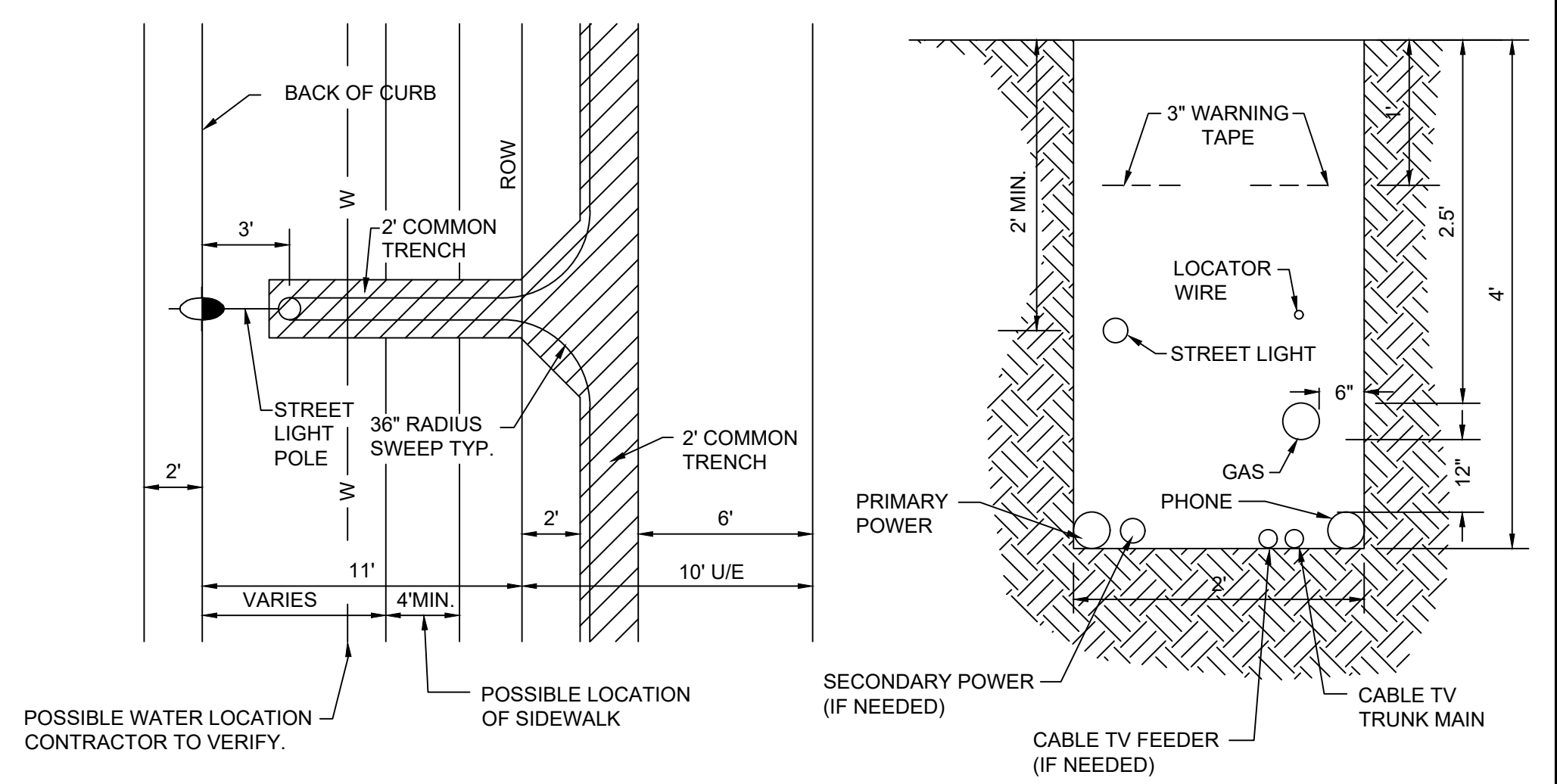
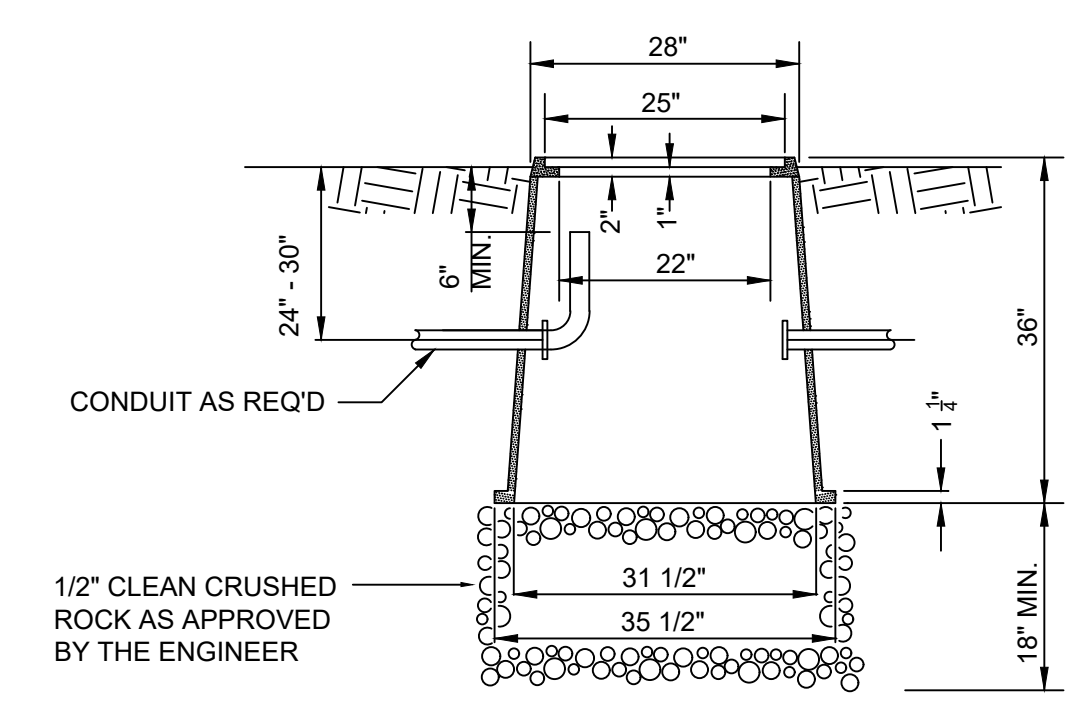


- CONDUIT MARKING NOTES:**
- CONDUIT SHALL BE PLACED 2'-0" TO 3'-0" BELOW THE TOP OF CURB ELEVATION AND SHALL EXTEND 2'-0" MINIMUM BEYOND THE BACK OF CURB. CONDUIT SHALL BE INSTALLED TO DRAIN, AND ALL ENDS SHALL BE THREADED AND CAPPED. AN ALUMINUM MARKER SHALL BE PLACED IN THE TOP OF THE CURB DIRECTLY OVER THE CONDUIT AND SHALL BE FLUSH WITH THE CURB. ALUMINUM MARKERS WILL BE FURNISHED BY THE CONTRACTOR.
  - THE CONTRACTOR SHALL NOTIFY THE CITY OF LENEXA, DEPARTMENT OF MUNICIPAL SERVICES TRAFFIC DIVISION (913-477-7835) FOR INSPECTION OF THE CONDUIT INSTALLATION. AT LEAST 24 HOURS NOTICE SHALL BE PROVIDED. THE CONDUIT SHALL NOT BE COVERED SO AS TO ENSURE PROPER DEPTH, CORRECT CONDUIT MATERIAL, AND PROPER CONDUIT END TREATMENT AS DESCRIBED ABOVE.

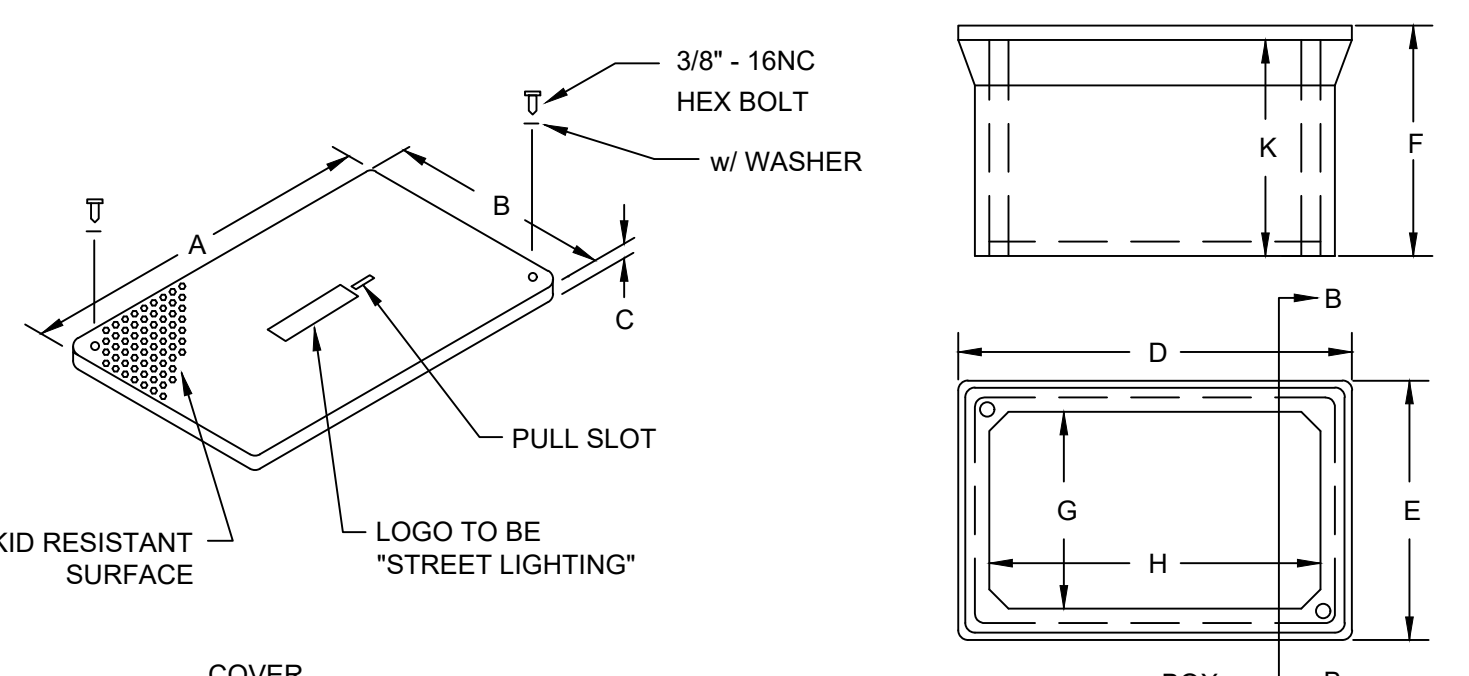
**CONDUIT MARKING DETAIL**



**ALTERNATE TRENCHING DETAIL**

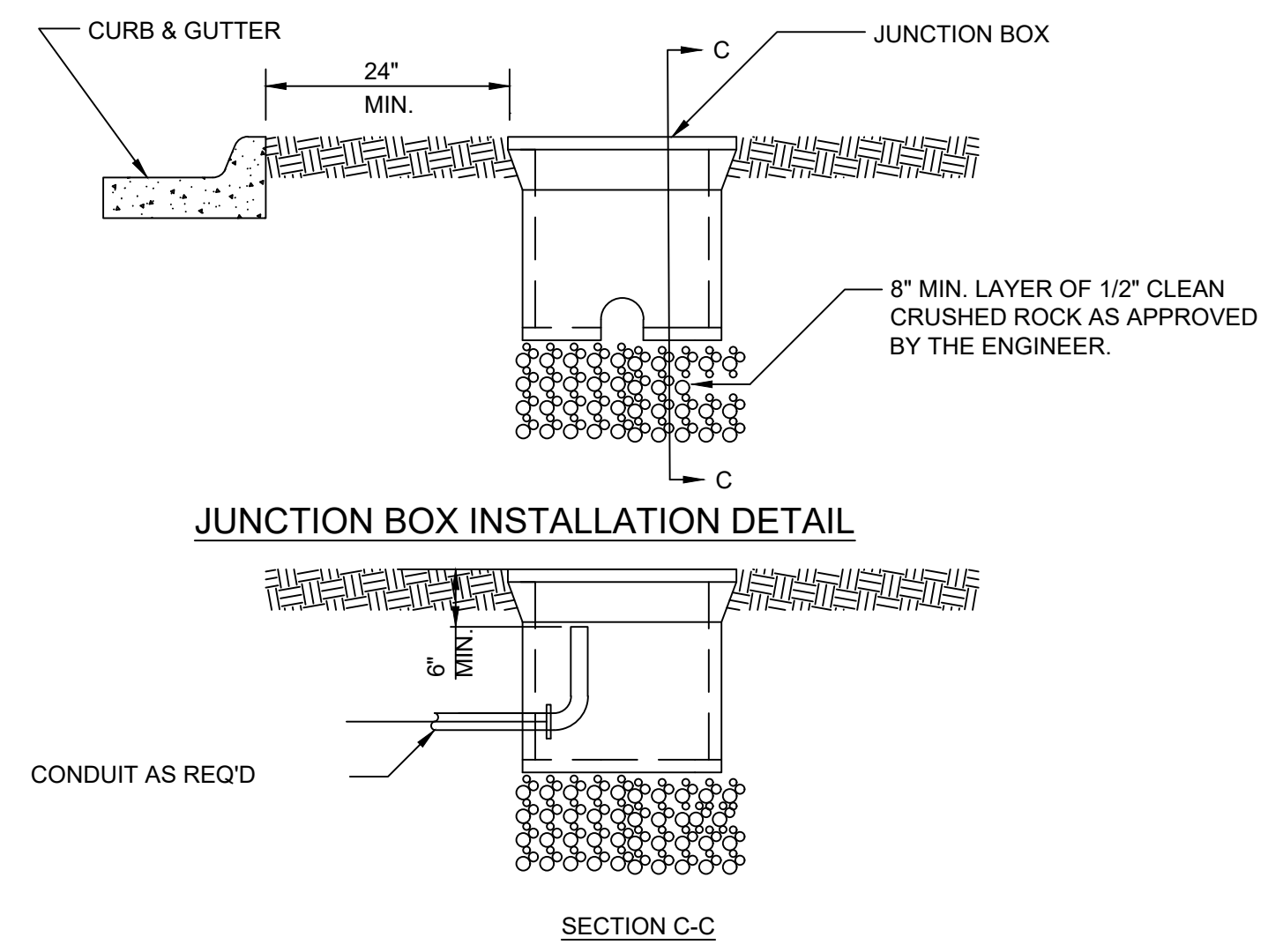


**FIBERGLASS REINFORCED POLYMER CONCRETE SERVICE BOX**

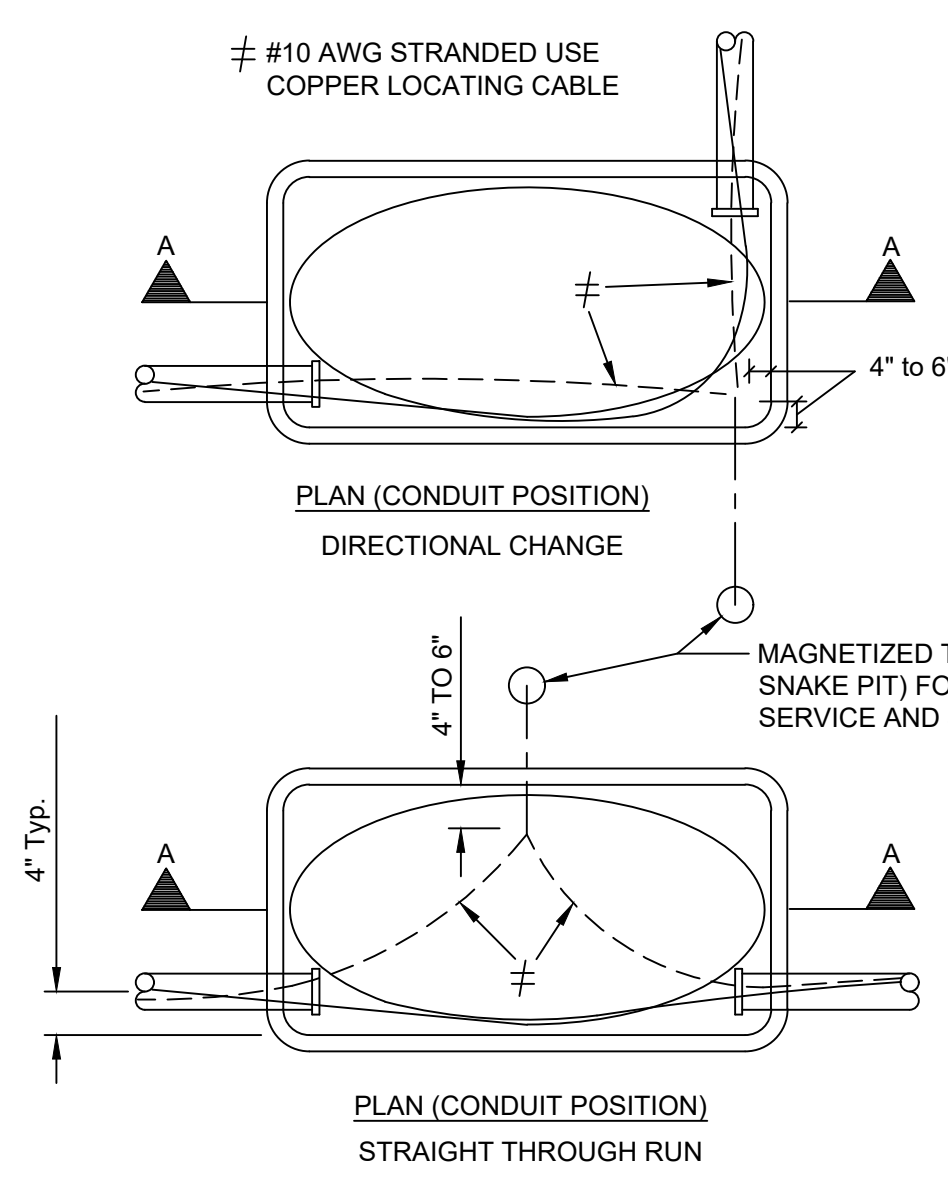


\* TOLERANCE ±1/4" IN ANY DIMENSION

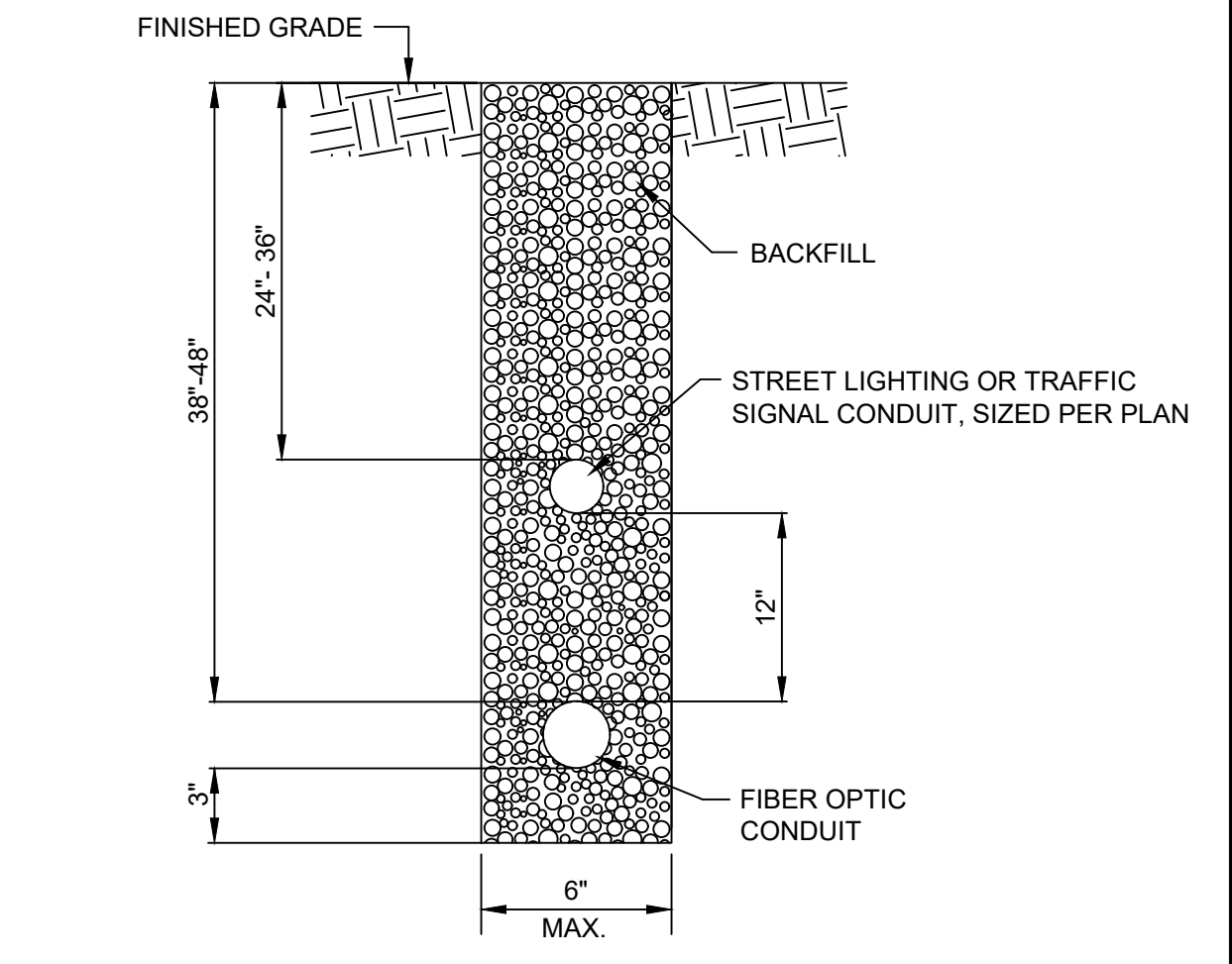
TYPE	DIMENSIONS (IN.) *									
	A	B	C	D	E	F	G	H	J	K
I	12 7/8	12 7/8	1 1/2	14	14	12 3/4	10 1/2	10 1/2	1	12
II	18 1/2	11 1/2	1 1/2	20 1/2	13 1/2	12	10 1/4	17 1/4	3/8	11 1/4
III	30 1/2	17 1/2	1 3/4-2		30	15 1/2	28 1/2			



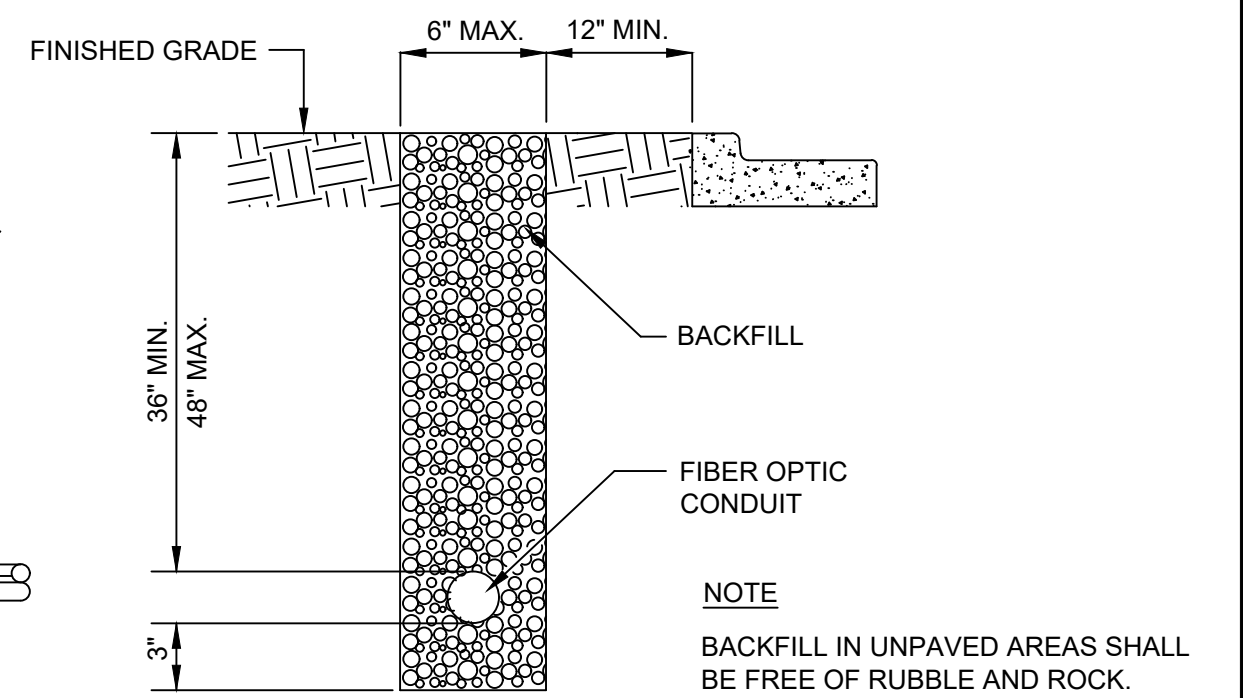
**JUNCTION BOX INSTALLATION DETAIL**



**INITIAL BOX INSTALLATION DETAIL**

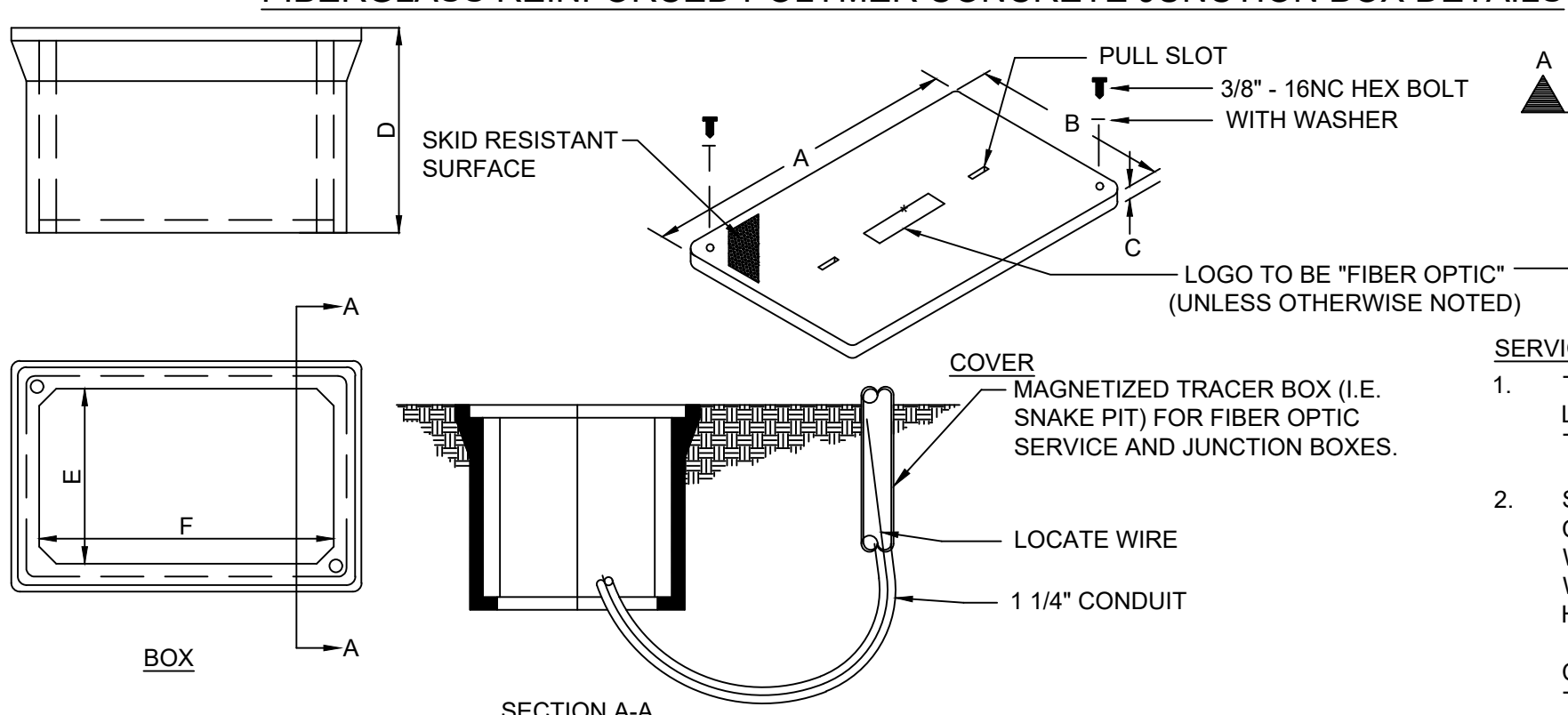


**TRENCHING IN UNPAVED AREAS**



**TRENCHING IN UNPAVED AREAS**

**FIBERGLASS REINFORCED POLYMER CONCRETE JUNCTION BOX DETAILS**



- SERVICE BOX NOTES:**
- THE FIBER OPTIC SERVICE BOX SHALL BE RATED FOR NO LESS THAN 22,500 LBS VERTICAL TEST LOAD AND NO LESS THAN 15,000 LBS. COVER LOAD OVER A 10"x10" AREA
  - SERVICE BOX MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES:  
COMPRESSIVE STRENGTH - 20,000 PSI ASTM C-109  
TENSILE STRENGTH - 1,700 PSI ASTM C-496  
FLEXURAL STRENGTH - 7,500 PSI ASTM D-790
  - A 1/2" x 8'-0" GROUND ROD SHALL BE INSTALLED IN EACH SERVICE BOX.
  - 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 - 20,000 PSI  
TENSILE STRENGTH - 1,700 PSI  
FLEXURAL STRENGTH - 7,500 PSI
  - SERVICE BOX WITH ADJUSTABLE TOP RING SHALL NOT BE PERMITTED.

- SIGNAL INTERCONNECT NOTES:**
- THE CONDUIT SHALL ENTER AND EXIT THE SERVICE BOX BETWEEN 36" AND 48" AND SHALL BE 4" CENTERED OFF THE EDGE OF THE SERVICE BOX WALL. THE FIBER CABLE SHALL AT NO TIME HAVE LESS THAN AN 8" RADIUS BEND.
  - 18" MIN. LAYER OF 1/2" CLEAN CRUSHED ROCK SHALL BE CONSTRUCTED BELOW THE SERVICE BOX FOR DRAINAGE PURPOSES.
  - MAGNETIZED TRACER BOX (I.E. SNAKE PIT) FOR FIBER OPTIC SERVICE AND JUNCTION BOXES.
- CONDUIT NOTES:**
- THE CONDUIT SHALL BE SIZED ACCORDING TO PLAN.
  - THE CONDUIT SHALL BE SMOOTH WALLED INSIDE AND OUT AND BE ORANGE IN COLOR.
  - A #10 AWG STRANDED USE COPPER LOCATING CABLE SHALL BE LOCATED INSIDE THE CONDUIT.
  - THE CONDUIT SHALL BE BORED UNDER ALL EXISTING PAVEMENTS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
  - DUCT SEAL SHALL BE APPLIED AT ALL CONDUIT ENTRANCES AFTER INSTALLATION REGARDLESS OF CABLE INSTALLATION OR EMPTY.

- NOTES:**
- BOXES SHALL BE STACKABLE FOR EXTRA DEPTH.
  - BOXES AND COVERS SHALL BE RATED FOR NO LESS THAN 15,000 POUNDS OVER A 10 in x 10 in AREA.

UNITS	DIMENSION					
	A	B	C	D	E	F
Inches	47 5/8	30 1/8	3	36	28 1/8	45 5/8

**FIBERGLASS REINFORCED POLYMER CONCRETE FIBER OPTIC SERVICE BOX DETAILS**

www.lenexa.com 2017

REVISED DATE: 08/17  
 DETAILED: BKC  
 APPROVED: ---

**Lenexa**  
 KANSAS

**BOXES, MARKING, FIBER DETAILS**

SHEET D-704