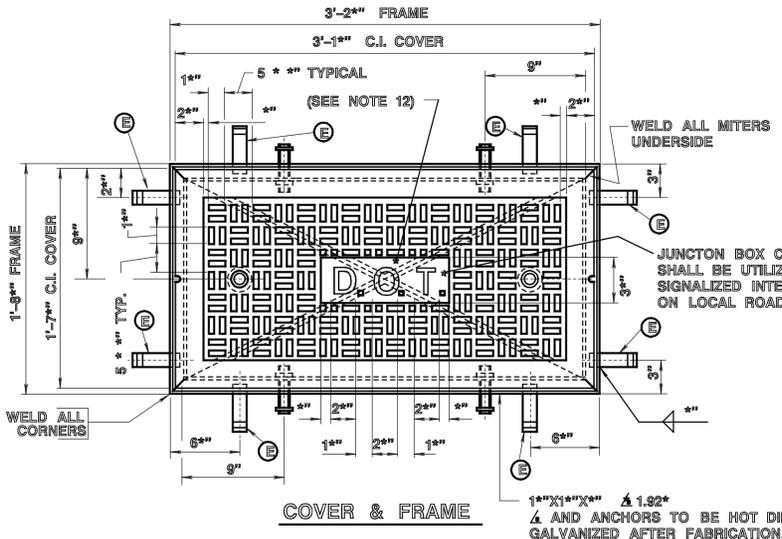
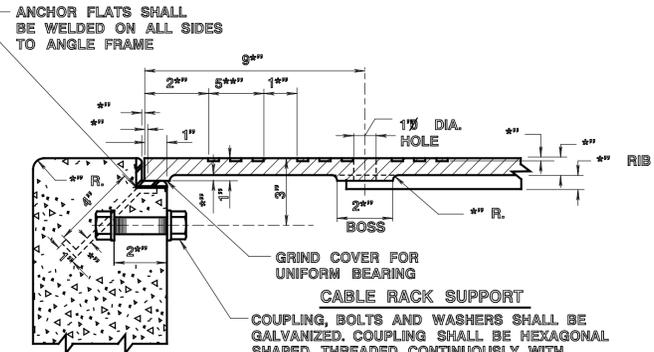


**18" X 36" JUNCTION BOX - CLASS "JB"**  
**CONCRETE CLASS "B"**  
 USING APPROVED \*\* AGGREGATE  
 0.8 CU. YD.

**NOTES**  
 MINIMUM WEIGHT OF FRAME \* 16 LBS.  
 MINIMUM WEIGHT OF C.I. COVER \* 150 LBS.  
 FRAME AND ANCHORS OF STRUCTURAL STEEL  
 (B) - DENOTES 1" X \*\* X 6" STL. ANCHORS (8 REQUIRED)

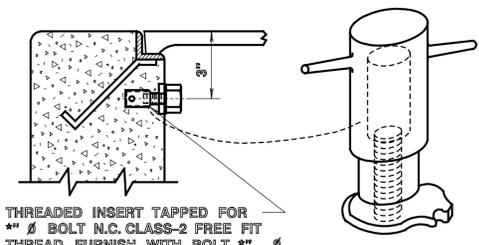


**COVER & FRAME**  
 1/4 ANCHORS TO BE HOT DIP GALVANIZED AFTER FABRICATION.

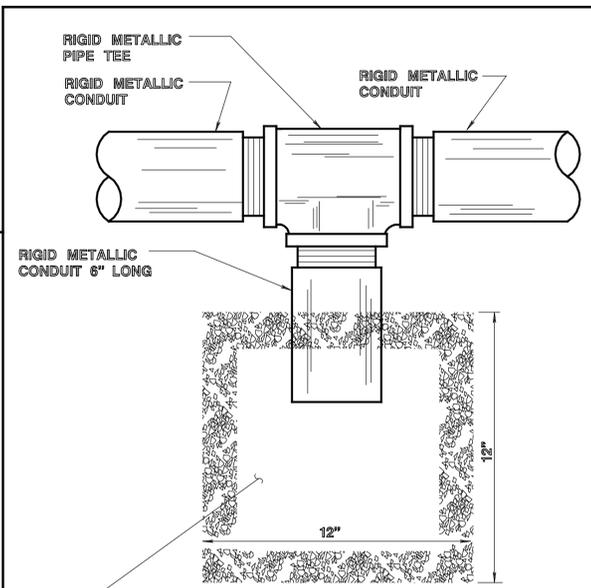


**SECTION THRU JUNCTION BOX**

**ALTERNATE CABLE RACK SUPPORT**

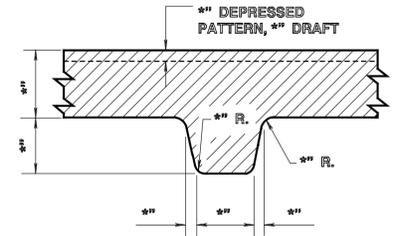


THREADED INSERT TAPPED FOR \*\* BOLT N.C. CLASS-2 FREE FIT THREAD. FURNISH WITH BOLT \*\* N.C. CLASS-2 FREE FIT THREAD, 1" LONG AND FLAT WASHER \*\* I.D. X 1" O.D. BOLTS AND WASHERS SHALL BE GALVANIZED. INSERTS SHALL BE FILLED THERMOPLASTIC MATERIAL. FURNISH HARDWARE AS REQUIRED ABOVE.



**TYPICAL TEE DRAIN**

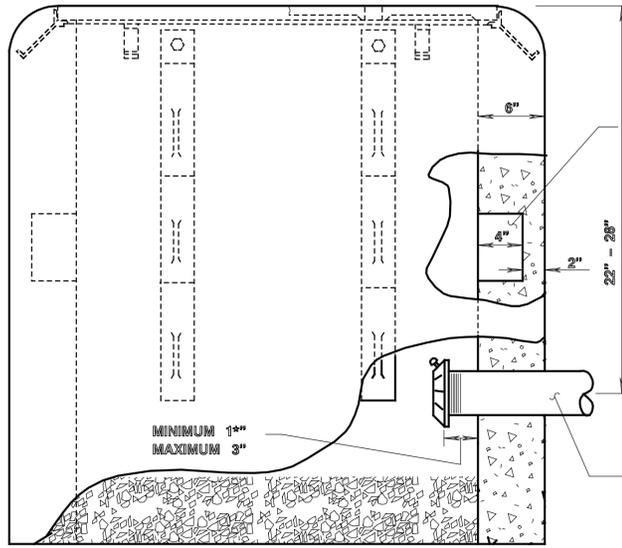
ONE CUBIC FOOT OF \*\* AGGREGATE SHALL CONSIST OF BROKEN STONE, WASHED GRAVEL OR BLAST FURNACE SLAG FOR DRAIN. COVER WITH TAR PAPER TO PREVENT BACK FILL FROM ENTERING DRAIN.



**SECTION OF RIB**

**NOTES:**

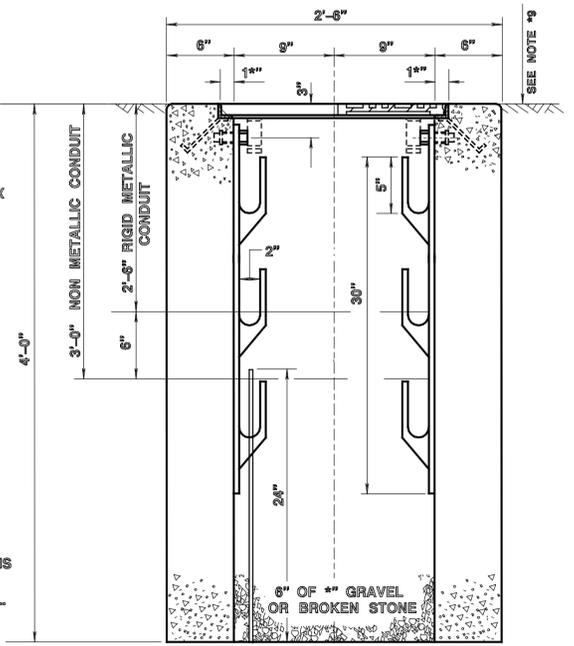
- 1.) JUNCTION BOX FOUNDATION SHALL BE SET PARALLEL TO THE CURB AND TOP OF JUNCTION BOX SHALL BE SET AT GRADE IN SIDEWALK, PAVED AREA, IN GRASS OR DIRT AREAS.
- 2.) CABLE RACKS FURNISHED AND INSTALLED AS INDICATED.
- 3.) BONDING AND GROUNDING INSULATED BUSHINGS SHALL BE INSTALLED ON METALLIC CONDUITS TERMINATING IN JUNCTION BOXES AND/OR FOUNDATIONS AND SHALL HAVE A FITTING TO PREVENT ENTRY OF FOREIGN MATTER PRIOR TO INSTALLATION OF WIRING.
- 4.) A NYLON CORD, 125 POUND MINIMUM TEST STRENGTH, SHALL BE FURNISHED AND INSTALLED IN ALL CONDUITS. SEE SPECIFICATIONS.
- 5.) CONDUITS SHALL ENTER JUNCTION BOX PERPENDICULAR TO WALLS OR AS APPROVED BY THE ENGINEER. A 2" SEPARATION SHALL BE MAINTAINED BETWEEN ADJACENT WALLS, CONDUITS, AND CABLE RACK LOCATIONS.
- 6.) TERMINAL ENDS OF ALL METALLIC CONDUIT SHALL BE THREADED.
- 7.) ALL NON-METALLIC CONDUITS SHALL TERMINATE WITH BELL END CONSTRUCTION IN JUNCTION BOX.
- 8.) ALL UNUSED CONDUITS SHALL BE PLUGGED OR CAPPED.
- 9.) ENGINEER MAY REQUIRE TOP OF JUNCTION BOX TO BE INCLINED IN ORDER TO CONFORM WITH FIELD CONDITIONS. JUNCTION BOX SHALL BE SET TO GRADE IN SIDEWALK AREA AND IN ALL OTHER AREAS.
- 10.) WARNING TAPE SHALL BE A RED 4 MIL. FLEXIBLE POLYETHYLENE FILM WHICH IS RESISTANT TO ACIDS, BASES, HYDROCARBONS AND WATER.
- 11.) IN INCLINE AREA, NO PART OF THE JUNCTION BOX SHALL EXTEND MORE THAN 4" ABOVE THE FINISH GRADE.
- 12.) JUNCTION BOX COVER WITHOUT D.O.T. LOGO SHALL BE UTILIZED FOR ALL LOCAL SIGNALIZED INTERSECTIONS AND BRIDGES ON LOCAL ROADS.



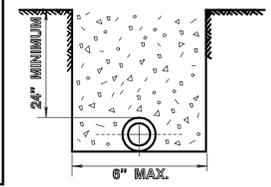
**ELEVATION**

6"X18"X4" RECESS IN END WALLS OF JUNCTION BOX FOR INSERTING REQUIRED CONDUITS. NUMBER OF CONDUITS ENTERING JUNCTION BOX SHALL BE DETERMINED FROM THE GENERAL PLANS. WALL OF RECESS SHALL BE BROKEN, CONDUIT(S) INSERTED AND REMAINING AREA OF WALL AND RECESS SHALL BE COMPLETELY SEALED WITH GROUT.

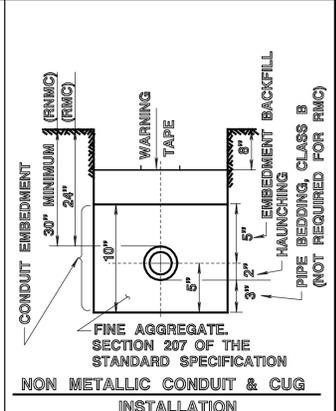
ADDITIONAL OPENINGS SHALL BE PROVIDED AT APPROVED ELEVATIONS FOR UNDER ROADWAY CONDUITS ENTERING JUNCTION BOX - TYPICAL.



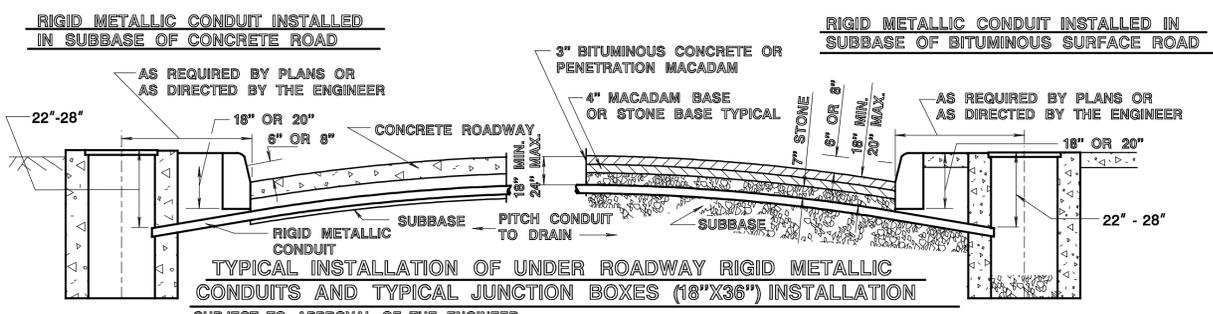
**SECTION A-A**



**CONDUITS INSTALLATION- OPEN CUT METHOD**



**NON METALLIC CONDUIT & CUG INSTALLATION**



**TYPICAL INSTALLATION OF UNDER ROADWAY RIGID METALLIC CONDUITS AND TYPICAL JUNCTION BOXES (18"X36") INSTALLATION**  
 SUBJECT TO APPROVAL OF THE ENGINEER

WARNING TAPE  
 CAUTION CAUTION CAUTION  
 ELECTRIC LINE BURIED BELOW  
 6" TYP. BLACK LETTERS ON RED BACKGROUND

NEW JERSEY DEPARTMENT OF TRANSPORTATION

**ELECTRICAL DETAILS**

N.T.S.

18" X 36" JUNCTION BOX CAST IN PLACE TYPE  
 TYPICAL INSTALLATION OF JUNCTION BOX  
 & UNDER ROADWAY CONDUIT