



**TRANSPORTATION CABINET**

Frankfort, Kentucky 40622  
www.transportation.ky.gov/

**Steven L. Beshear**  
Governor

**Michael W. Hancock, P.E.**  
Secretary

September 16, 2013

CALL NO. 317  
CONTRACT ID NO. 131209  
Addendum # 1

Subject: Lyon County, FD04 SPP 072 0062 009-013  
Letting September 27, 2013

- (1) Revised - Plan Sheet R1
- (2) ADDED- Plan Sheets T17, T18, T19, T20, T21, T22, T23
- (3) ADDED - Proposal pages -37(a)& 37(B) of 249
- (4) Revised - Proposal pages - 244 thru 249 of 249
- (5) ADDED - Proposal page - 249(a) of 249

Proposal revisions are available at  
<http://transportation.ky.gov/Construction-Procurement>

Plan Revisions are available at: <http://www.lynnimaging.com/kytransportation/>

If you have any questions, please contact us at (502) 564-3500.

Sincerely,

A handwritten signature in blue ink that reads "Ryan Griffith".

Ryan Griffith  
Director  
Division of Construction Procurement

RG:jj

Enclosures



An Equal Opportunity Employer M/F/D

# Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

## PLANS OF PROPOSED PROJECT LYON COUNTY US 62 FD04 SPP 072 0062 009-013



INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
R1	LAYOUT SHEET
R2 - R2M	TYPICAL SECTIONS-SUMMARY OF QUANTITIES
R3 - R35	PLAN AND PROFILE SHEETS
R36 - R38	RIGHT OF WAY SUMMARY SHEETS
R39 - R52	RIGHT OF WAY STRIP MAP SHEETS
R53 - R60	DETAIL SHEETS
R61 - R77	TRAFFIC CONTROL SHEETS
R78 - R89	EROSION CONTROL SHEETS
R90	GEOMETRIC CONTROL COORDINATES
R91	CONTROL MONUMENTS AND BENCHMARKS
R92	RIGHT OF WAY MONUMENTS
R93 - R106	GEOTECHNICAL SHEETS
R107 - R123	PIPE DRAINAGE SHEETS
S1-S33,S1-S6,S1-S6	STRUCTURE PLANS (3 SETS)
T1 - T23	TRAFFIC PLANS
U1 - UX135	UTILITY RELOCATION PLANS
X1 - X141	CROSS SECTION SHEETS

TOTAL SHEETS	
(R) ROADWAY	123
(S) STRUCTURE	45
(T) TRAFFIC	23
(U) UTILITY	96
(X) CROSS SECTION	141

SHEETS NOT INCLUDED IN TOTAL SHEETS	
R2A-R2M	

STANDARD DRAWINGS			
NUMBER			
RBB-001-07	RDH-005-02	RDH-001-05	RPM-011-05
RBC-001-10	RDH-020-03	RDH-002-03	RPM-110-06
RBE-060-13	RDH-110-02	RDH-005-02	RPM-120-06
RBI-001-10	RDH-120-02	RDH-060-03	RPM-145-03
RBI-002-06	RDH-214-03	RDH-210-02	
RBM-115-09	RDH-330-04	RDH-215	RRE-002-04
RBR-010-05	RDH-1000-02	RDH-220-04	
RBR-015-04	RDH-1100-02	RDH-240-03	TPM-145-02
RBR-016-04	RDH-1140-02		TPM-140-02
RBR-020-05	RDH-1200-02	RFW-001-05	TTC-100-03
RBR-035-10	RDH-1210-02	RFW-005-07	TTC-115-02
	RDH-1300-03		TTC-120-02
	RDH-1328-03	RCS-001-06	TTC-135-01
RDB-003-07		RCS-002-05	TTC-145-02
RDB-150-01		RCX-001-05	TTC-146-02
RDB-155-01	RDI-001-09	RCX-010-03	TTC-155-01
RDB-160-01	RDI-002-04	RCX-100-05	TTC-160-01
RDB-280-05	RDI-020-08	RCX-105-07	TTD-110-01
RDB-281-02	RDI-025-04	RCX-200	TTD-120-01
RDB-282-03	RDI-035-01		
RDB-283-03	RDP-001-05		TTS-115-01
RDB-410-05	RDP-005-04		
RDD-040-04	RDP-006-03		
	RDP-010-08		

TOTAL NUMBER OF STANDARD DRAWINGS = 79

STA. 13 + 54.80  
BEGIN RIGHT OF WAY

END PROJECT  
STA. 166 + 00

THESE PLANS ARE FOR  
GRADE, DRAIN, AND SURFACING

THE CONTROL OF ACCESS ON THIS  
PROJECT SHALL BE BY PERMIT  
LT. STA. 11+00 TO LT. STA. 158+50.33  
RT. STA. 11+00 TO RT. STA. 158+24.06

FULLY CONTROLLED ACCESS HIGHWAY  
LT. STA. 158+50.33 TO LT. STA. 166+00.00  
RT. STA. 158+24.06 TO RT. STA. 166+00.00

STA. 165 + 58.87  
END RIGHT OF WAY

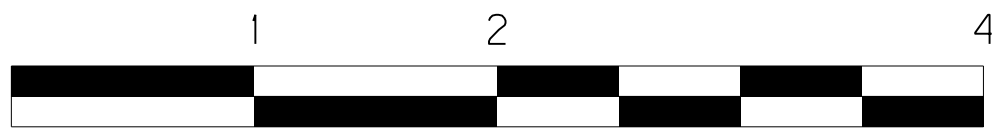
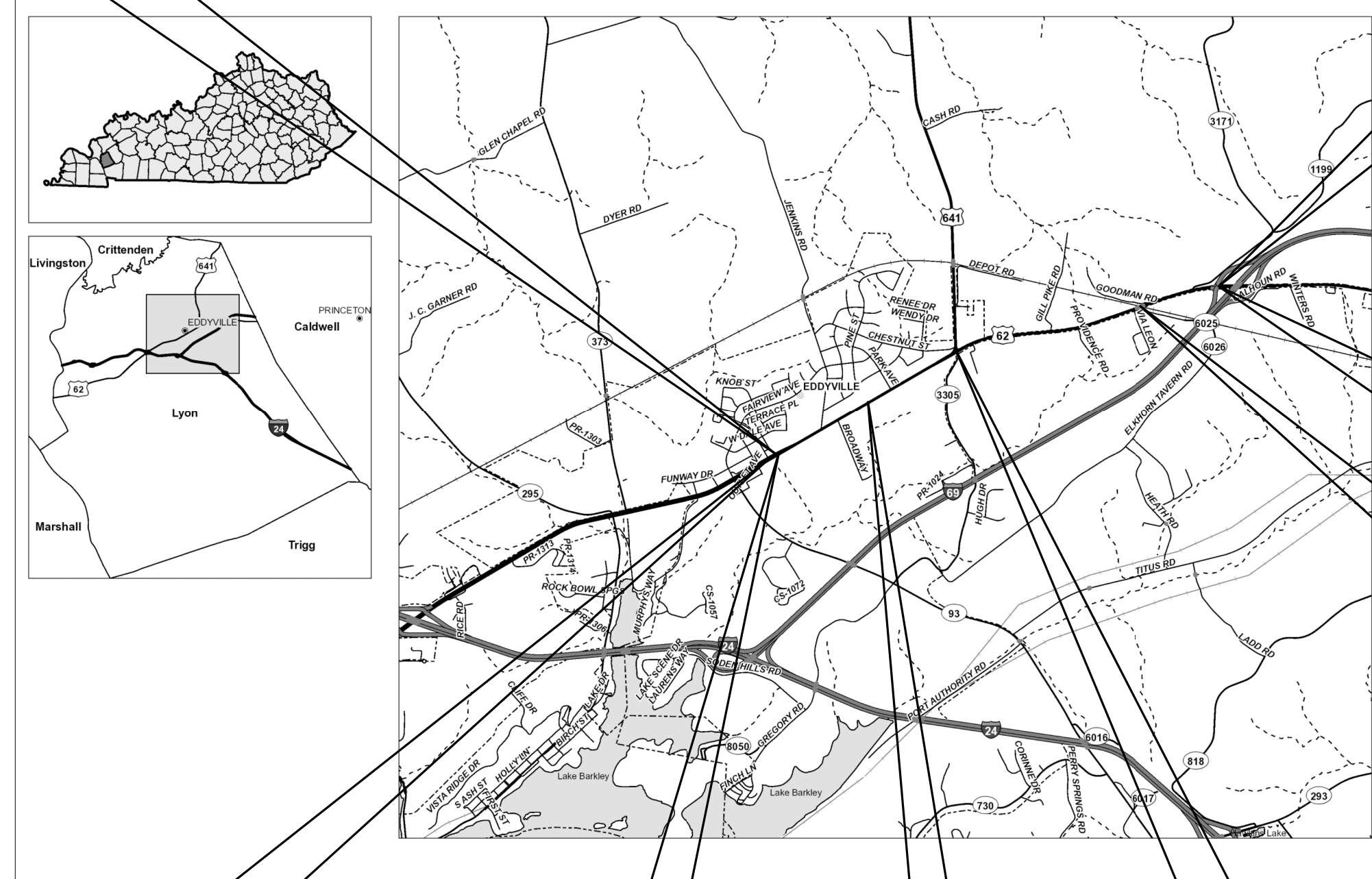
STA. 139 + 88.68 CONSTRUCT  
3 SPAN (83'- 4") S B 33 X 40  
BOX BEAM BRIDGE @  
60 SKEW

BEGIN PROJECT  
STA. 11 + 00

5' X 4' RCBC  
STA. 14 + 49.2

4' X 3' RCBC  
STA. 47 + 14

CORPORATE LIMITS  
STA. 79 + 37.95



GRAPHIC SCALE IN ..... MILES.....

### LAYOUT MAP

DESIGN CRITERIA	
CLASS OF HIGHWAY	RURAL MINOR ARTERIAL
TYPE OF TERRAIN	ROLLING
DESIGN SPEED	55 M.P.H.
REQUIRED NPSD	460 FT.
REQUIRED PSD	N/A
LEVEL OF SERVICE	'B'
ADT PRESENT ( 2000 )	7200
ADT FUTURE ( 2020 )	9800
DHV	1020
D %	50-50
T %	9

GEOGRAPHIC COORDINATES	
LATITUDE	37 DEGREES 05 MINUTES _____ SECONDS NORTH
LONGITUDE	88 DEGREES 04 MINUTES _____ SECONDS WEST

DESIGNED	
% RESTRICTED SD	N/A
LEVEL OF SERVICE	
MAX. DISTANCE W/O PASSING	N/A

CITY OF EDDYVILLE	LYON COUNTY	TOTAL PROJECT
LENGTH <u>6837.95</u> LIN. FT. <u>1.295</u> MILES	LENGTH <u>8662.05</u> LIN. FT. <u>1.641</u> MILES	LENGTH <u>15500</u> LIN. FT. <u>2.936</u> MILES
ADDED DEDUCTED] FOR EQUALITIES _____ LIN. FT. NOT INCLUDED	ADDED DEDUCTED] FOR EQUALITIES _____ LIN. FT. NOT INCLUDED	ADDED DEDUCTED] FOR EQUALITIES _____ LIN. FT. NOT INCLUDED
RAILROAD CROSSINGS NO. _____ LIN. FT. BRIDGES _____ LIN. FT.	RAILROAD CROSSINGS NO. _____ LIN. FT. BRIDGES _____ LIN. FT.	RAILROAD CROSSINGS NO. _____ LIN. FT. BRIDGES _____ LIN. FT.

**Commonwealth of Kentucky  
DEPARTMENT OF HIGHWAYS  
COUNTY OF**

**LYON**

US 62 FROM COMMERCE STREET IN  
EDDYVILLE TO THE WESTERN KY PARKWAY

ITEM NO. 1-307.00

PROJECT NUMBER: FD04 SPP 072 0062 009-013

LETTING DATE: \_\_\_\_\_

RECOMMENDED BY: MIKE MCGREGOR **8-13-13**  
PROJECT MANAGER DATE:

PLAN APPROVED BY: [Signature] **8-13-13**  
STATE HIGHWAY ENGINEER DATE:

ICA

Engineering

FILE NAME: H:\95123\01-0307.00\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\ROOT00LS.DGN  
 USER: jfreers  
 DATE PLOTTED: August 9, 2013  
 E-SHEET NAME:  
 MicroStation v8.11.7.443



\* REVISED SEPTEMBER 12, 2013



# Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

## PLANS OF PROPOSED PROJECT LYON COUNTY US 62 FD04 SPP 072 0062 009-013

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	RDH-210-02
	RDH-215
	RDH-220-04
	RDH-240-03
	RFW-001-05
	RFW-005-07
	RGS-001-06
	RGS-002-05
	RCX-001-05
	RCX-010-03
	RCX-100-05
	RCX-105-07
	RCX-200
	RRE-002-04
	TPM-145-02
	TPM-140-02
	TTC-100-03
	TTC-115-02
	TTC-120-02
	TTC-135-01
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	TTC-146-02
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	TTS-115-01

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STA. 13 + 54.80  
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END PROJECT  
STA. 166 + 00

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RT. STA. 158+24.06 TO RT. STA. 166+00.00

STA. 165 + 58.87  
END RIGHT OF WAY

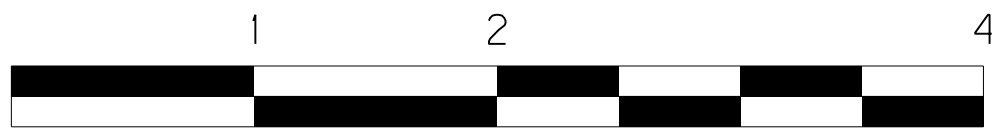
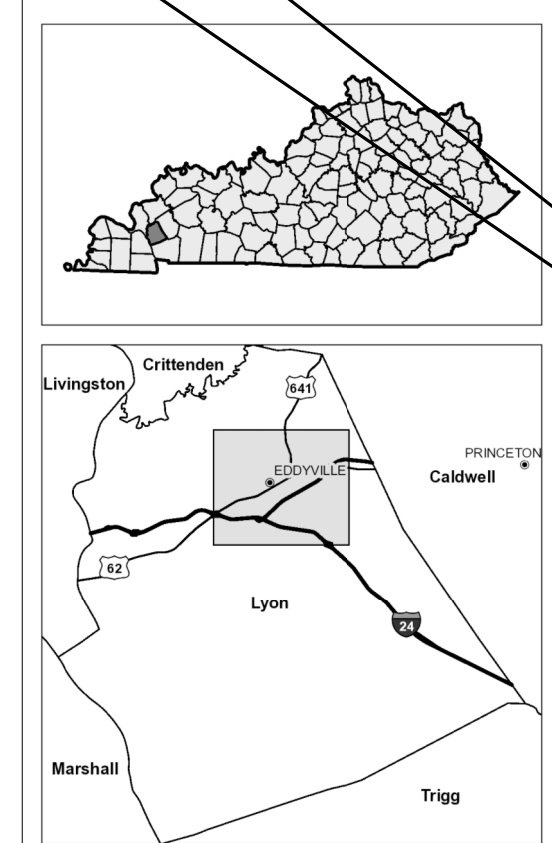
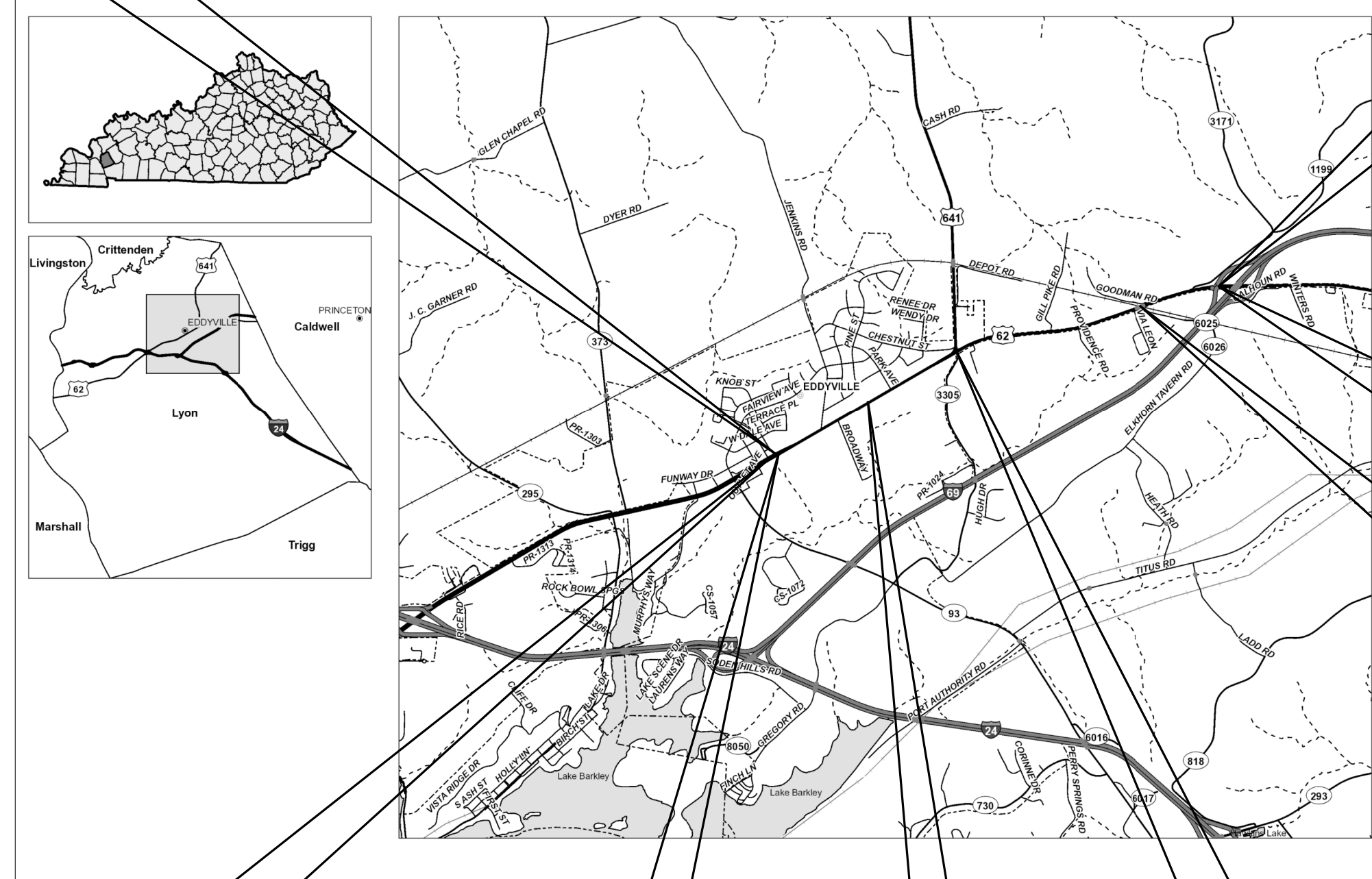
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BOX BEAM BRIDGE @  
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BRIDGES _____ LIN. FT.	BRIDGES _____ LIN. FT.	BRIDGES _____ LIN. FT.

**Commonwealth of Kentucky  
DEPARTMENT OF HIGHWAYS  
COUNTY OF**

**LYON**

US 62 FROM COMMERCE STREET IN  
EDDYVILLE TO THE WESTERN KY PARKWAY

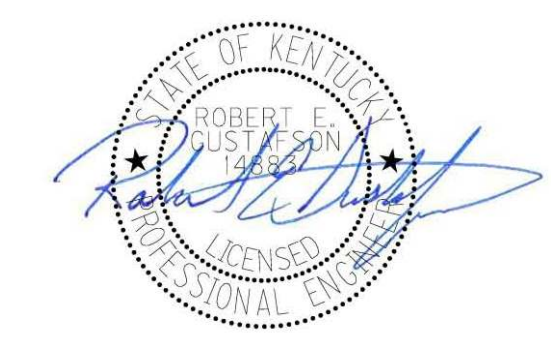
ITEM NO. 1-307.00

PROJECT NUMBER: FD04 SPP 072 0062 009-013

LETTING DATE: \_\_\_\_\_

RECOMMENDED BY: **MIKE MCGREGOR** 8-13-13  
PROJECT MANAGER DATE:

PLAN APPROVED BY: *[Signature]* 8-13-13  
STATE HIGHWAY ENGINEER DATE:



FILE NAME: H:\95123\01-0307.00\CONTRACT PLANS AND PROPOSAL\CONTRACT PLAN SET\ROADWAY\ROOT00LS.DGN  
 USER: jfreers  
 DATE PLOTTED: August 9, 2013  
 E-SHEET NAME:  
 MicroStation v8.11.7.443

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 723

SUBSECTION: 03.02 POLES AND BASES INSTALLATION.  
 PART: A) STEEL STRAIN AND MASTARM POLES INSTALLATION.  
 REVISION: REPLACE THE SECOND PARAGRAPH WITH THE FOLLOWING:

FOR CONCRETE BASE INSTALLATION, SEE SECTION 716.03.02, B), 2), PARAGRAPHS 2-7. DRILLED SHAFT DEPTH SHALL BE BASED ON THE SOIL CONDITIONS ENCOUNTERED DURING DRILLING AND SLOP CONDITION AT THE SITE. REFER TO THE DESIGN CHART BELOW.

SUBSECTION: 03.03 TRENCHING.  
 PART: A) UNDER ROADWAY.  
 REVISION: ADD THE FOLLOWING AFTER THE SECOND SENTENCE:

IF DEPTHS GREATER THAN 24 INCHES ARE NECESSARY, OBTAIN THE ENGINEER'S APPROVAL AND MAINTAIN THE REQUIRED CONDUIT DEPTHS COMING INTO THE JUNCTION BOXES. NO PAYMENT FOR ADDITIONAL JUNCTION BOXES FOR GREATER DEPTHS WILL BE ALLOWED.

SUBSECTION: 03.11 WIRING INSTALLATION  
 REVISION: ADD THE FOLLOWING SENTENCE BETWEEN THE FIFTH AND SIXTH SENTENCES:

PROVIDE AN EXTRA TWO FEET OF LOOP WIRE AND LEAD-IN PAST THE INSTALLED CONDUIT IN POLES, PEDESTALS, AND JUNCTION BOXES.

SUBSECTION: 03.12 LOOP INSTALLATION  
 REVISION: REPLACE THE FIFTH SENTENCE WITH THE FOLLOWING:

PROVIDE AN EXTRA TWO FEET OF LOOP WIRE AND LEAD-IN PAST THE INSTALLED CONDUIT IN POLES, PEDESTALS, AND JUNCTION BOXES.

SUBSECTION: 04.03 TRENCHING AND BACKFILLING.  
 REVISION: REPLACE THE SECOND SENTENCE WITH THE FOLLOWING:

THE DEPARTMENT WILL NOT MEASURE EXCAVATION, BACKFILLING, UNDERGROUND UTILITY WARNING TAPE (IF REQUIRED), THE RESTORATION OF DISTURBED AREAS TO ORIGINAL CONDITION, AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.15 LOOP SAW SLOT AND FILL.  
 REVISION: REPLACE THE SECOND SENTENCE WITH THE FOLLOWING:

THE DEPARTMENT WILL NOT MEASURE SAWING, CLEANING AND FILLING INDUCTION LOOP SAW SLOT, LOOP SEALANT, BACKER ROD, AND GROUT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.20 INSTALL SIGNAL CONTROLLER TYPE I70.  
 REVISION: REPLACE THE ENTIRE NOTE WITH THE FOLLOWING:

THE DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT INSTALLED. THE DEPARTMENT WILL NOT MEASURE CONSTRUCTING THE CONCRETE BASE OR MOUNTING THE CABINET TO THE POLE, CONNECTING THE SIGNAL AND DETECTORS, BACKFILLING, RESTORATION AND ANY NECESSARY POLE MOUNTING HARDWARE, OR ELECTRICAL INSPECTION FEES AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL ALSO NOT MEASURE CONNECTING THE INDUCTION LOOP AMPLIFIERS, PEDESTRIAN, ISOLATORS, LOAD SWITCHES, MODEL 400 MODEM CARD; FURNISHING AND INSTALLING ELECTRICAL SERVICE CONDUCTORS, SPECIFIED CONDUITS, ANCHORS, METER BASE, FUSED CUTOUT, FUSES, GROUND RODS, GROUND WIRES AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.22 REMOVE SIGNAL EQUIPMENT. (CONSTRUCTION ONLY)  
 REVISION: REPLACE ENTIRE NOTE WITH THE FOLLOWING:

THE DEPARTMENT WILL MEASURE THE QUANTITY AS A LUMP SUM REMOVAL OF SIGNAL EQUIPMENT. DEPARTMENT WILL NOT MEASURE THE RETURNING OF CONTROL EQUIPMENT AND SIGNAL HEADS TO THE DEPARTMENT OF HIGHWAYS AS DIRECTED BY THE DISTRICT TRAFFIC ENGINEER. DEPARTMENT ALSO WILL NOT MEASURE THE DISPOSAL OF ALL OTHER EQUIPMENT AND MATERIALS OFF THE PROJECT BY THE CONTRACTOR. THE DEPARTMENT ALSO WILL NOT MEASURE THE TRANSPORTATION OF THE MATERIALS AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.36 TRAFFIC SIGNAL POLE BASE.  
 REVISION: REPLACE THE SECOND SENTENCE WITH THE FOLLOWING:

THE DEPARTMENT WILL NOT MEASURE EXCAVATION, REINFORCING STEEL, ANCHOR BOLTS, SPECIFIED CONDUITS, GROUND RODS, GROUND WIRES, BACKFILLING, OR RESTORATION AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT. SEE SECTION 706, 723, AND 112 FOR MEASUREMENT AND OTHER DETAILS. SEE SECTION 602 FOR SPRIAL REINFORCEMENT SPLICING.

THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS. SUBMISSIONS OF A BID WILL BE CONSIDERED AN AFFIRMATION OF THIS INSPECTION HAVING BEEN COMPLETED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PICKING UP INSTALL ITEMS FROM THE FRANKFORT POLE YARD AND DELIVERING THESE ITEMS TO THE SITE. THE CONTRACTOR SHALL CONTACT FRANKFORT POLE YARD PERSONNEL (502-564-3820) AND ARRANGE TO PICK UP INSTALL ITEMS A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO ARRIVAL. FAILURE TO PROVIDE POLE YARD PERSONNEL THIS ADVANCE NOTICE COULD RESULT IN LONG DELAYS OR REFUSAL TO DISTRIBUTE EQUIPMENT UPON ARRIVAL.

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

TOTAL UNITS	CODE	ITEM DESCRIPTION
25	LIN FT 4792	CONDUIT 1 INCH
545	LIN FT 4793	CONDUIT 1 1/4 INCH
595	LIN FT 4795	CONDUIT 2 INCH
8	EACH 4811	ELECTRICAL JUNCTION BOX TYPE B
1,165	LIN FT 4820	TRENCHING AND BACKFILLING
2,360	LIN FT 4830	LOOP WIRE
1,400	LIN FT 4844	CABLE-NO. 14/5C
6,025	LIN FT 4850	CABLE-NO. 14/1 PAIR
1	EACH 4873	POLE WOODEN
2	EACH 4884	ANCHOR
885	LIN FT 4885	MESSSENGER-10800 LB
940	LIN FT 4895	LOOP SAW SLOT AND FILL
1	EACH 4931	INSTALL SIG CONTROLLER-TYPE 170
4	EACH 4932	INSTALL STEEL STRAIN POLE
1	EACH 4950	REMOVE SIGNAL EQUIPMENT
11	EACH 20188NS835	INSTALL SIGNAL-3 SECTION LED
4	EACH 21659NN	RELOCATE SIGNAL HEAD
19.89	CU YD 23157EN	TRAFFIC SIGNAL POLE BASE
1	EACH 23982EC	INSTALL ANTENNA

FILE NAME: G:\PWORK\CHARLES.WEITZEL\082855\T01700SU.DGN

USER: Charles.Weitzel  
 DATE PLOTTED: September 11, 2013

E-SHEET NAME: T01700SU

MicroStation v8.11.7.180

5/2/2013

DESIGNED BY: ADAM PROCTOR
DATE SUBMITTED: 9/9/23013
<b>Commonwealth of Kentucky</b> <b>DEPARTMENT OF HIGHWAYS</b> <b>COUNTY OF</b>  <b>LYON</b>
PROJECT NUMBERS: FD04 SPP 072 0062 009-013
TRAFFIC SIGNAL ESTIMATE OF QUANTITIES MEASUREMENT, CONST, AND MISC NOTES

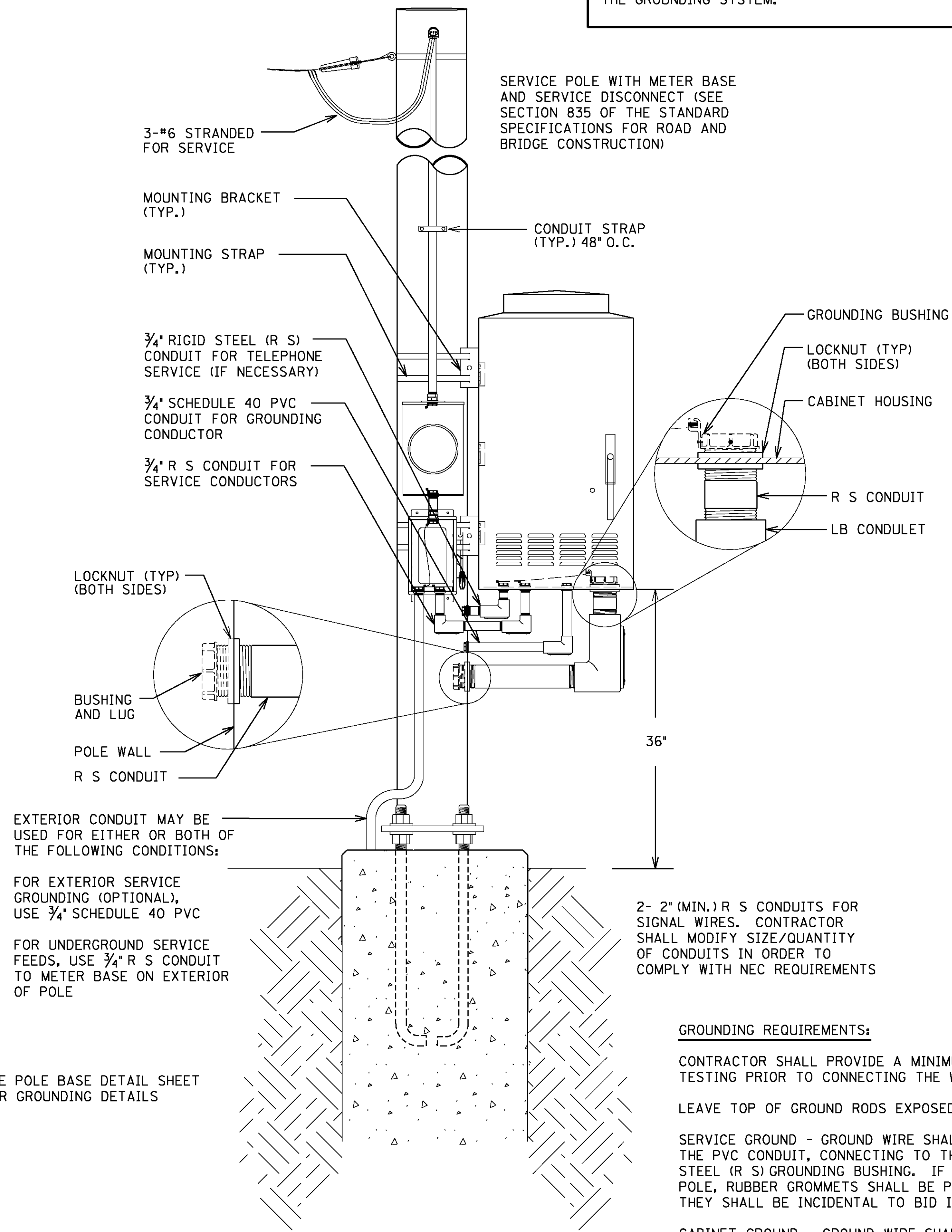


**NOTES:**

ALL CONDUITS USED FOR THE TELEPHONE, GROUNDING, SPARES, AND SERVICE (INCLUDING FLEX CONDUIT IF IT IS RUN INSIDE THE POLE) THAT ARE INSTALLED ON THE POLE AND/OR IN THE CABINET BASE ARE INCIDENTAL TO BID ITEM \*4931\*. THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE CONCRETE PAD.

ALL CONDUITS SHALL BE INSTALLED 6 INCHES ABOVE THE CONCRETE PAD.

SERVICE WIRES FOR BASE MOUNTED CABINETS MAY BE INSTALLED IN FLEXIBLE CONDUIT FROM THE DISCONNECT TO THE 3/4" RIGID STEEL CONDUIT INSIDE THE POLE BASE. USE THE PROPER CONNECTIONS FOR TRANSITION FROM FLEXIBLE CONDUIT TO R S CONDUIT. FLEXIBLE CONDUIT SHALL NOT BLOCK THE HAND HOLE OR THE ABILITY TO ACCESS THE GROUNDING SYSTEM.



SEE POLE BASE DETAIL SHEET FOR GROUNDING DETAILS

STEEL POLE MOUNT ENCLOSURE

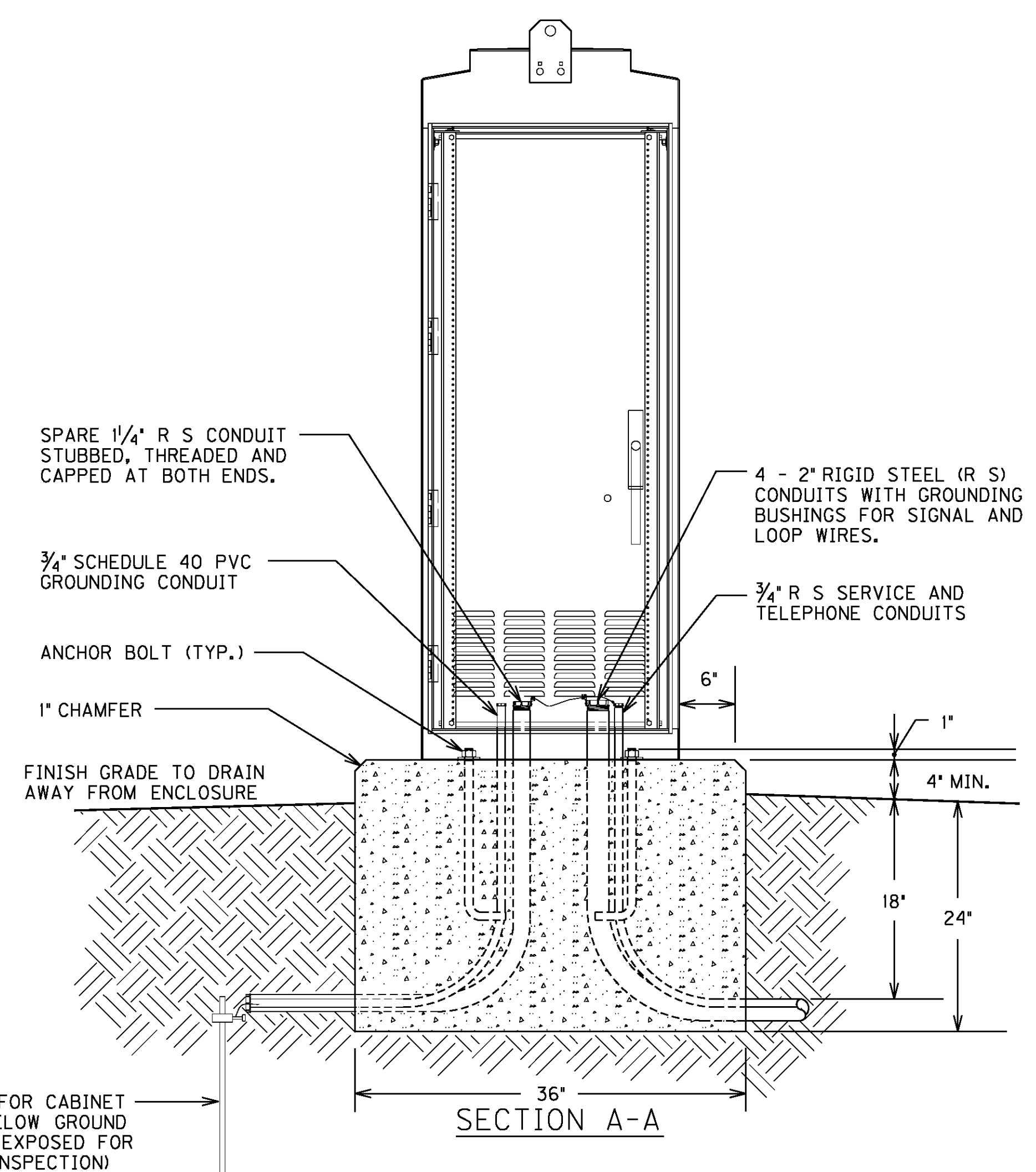
**GROUNDING REQUIREMENTS:**

CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE FOR TESTING PRIOR TO CONNECTING THE WIRE TO ANY DISCONNECT, CABINET OR POLE.

LEAVE TOP OF GROUND RODS EXPOSED FOR ELECTRICAL INSPECTION.

SERVICE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE DISCONNECT AND THEN TO EACH RIGID STEEL (R S) GROUNDING BUSHING. IF GROUND WIRE IS RUN ON THE INSIDE OF THE POLE, RUBBER GROMMETS SHALL BE PROVIDED AT DISCONNECT AND POLE CUT OUTS. THEY SHALL BE INCIDENTAL TO BID ITEM \*4931\*.

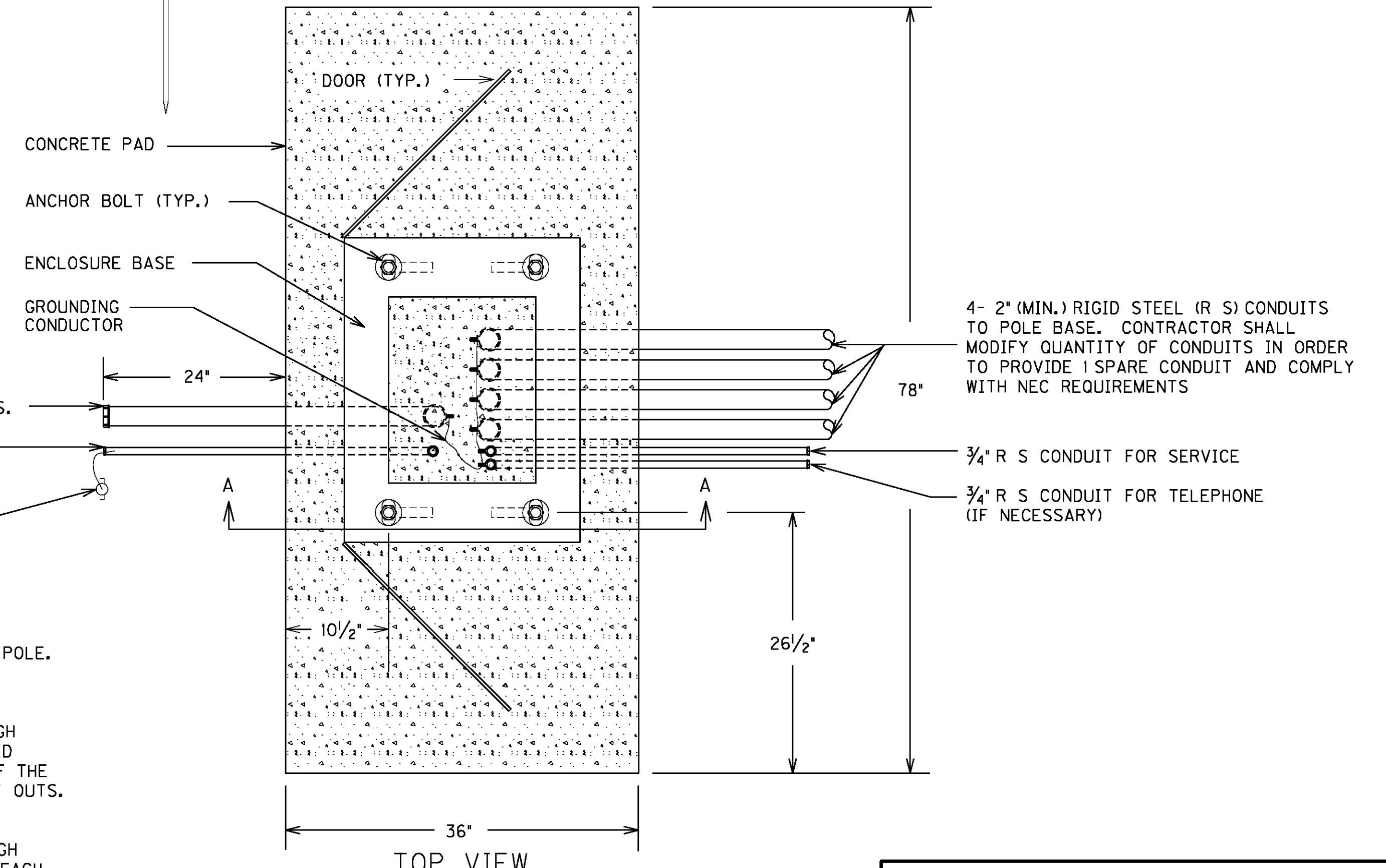
CABINET GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE CABINET GROUND BUS AND THEN TO EACH R S GROUNDING BUSHING.



1/4" SPARE R S CONDUIT; STUBBED OUT, THREADED, AND CAPPED AT BOTH ENDS.

3/4" SCHEDULE 40 PVC CONDUIT FOR GROUNDING CONDUCTOR(S)

GROUND ROD

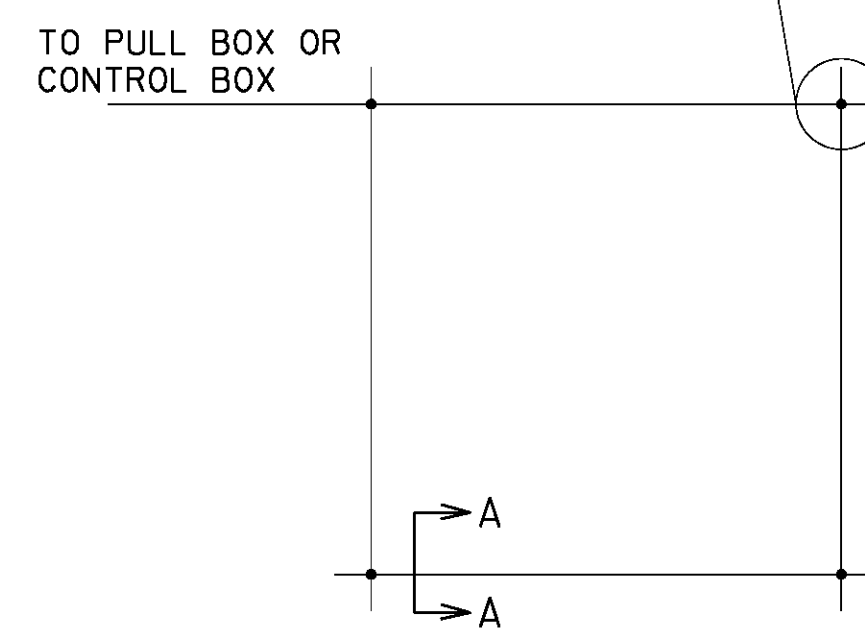
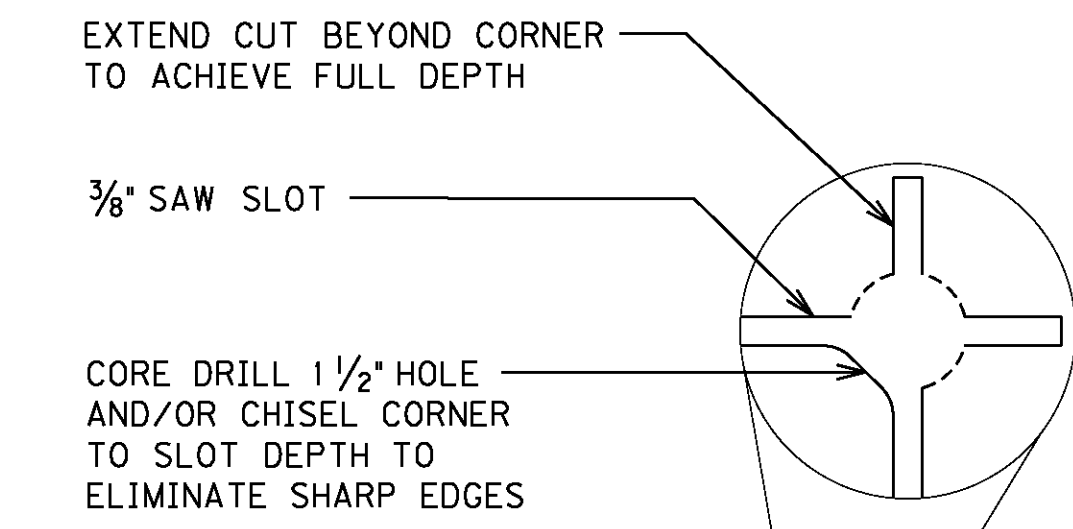
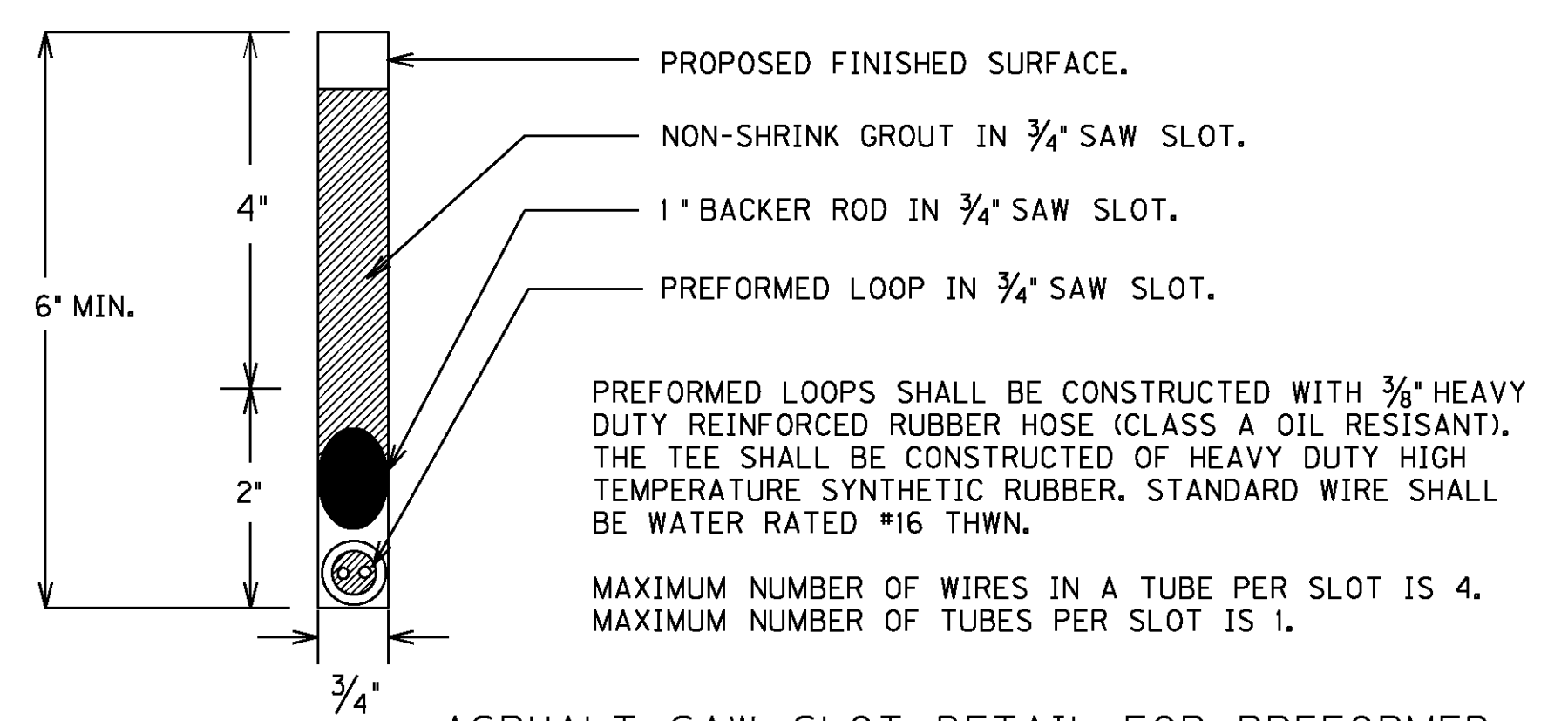
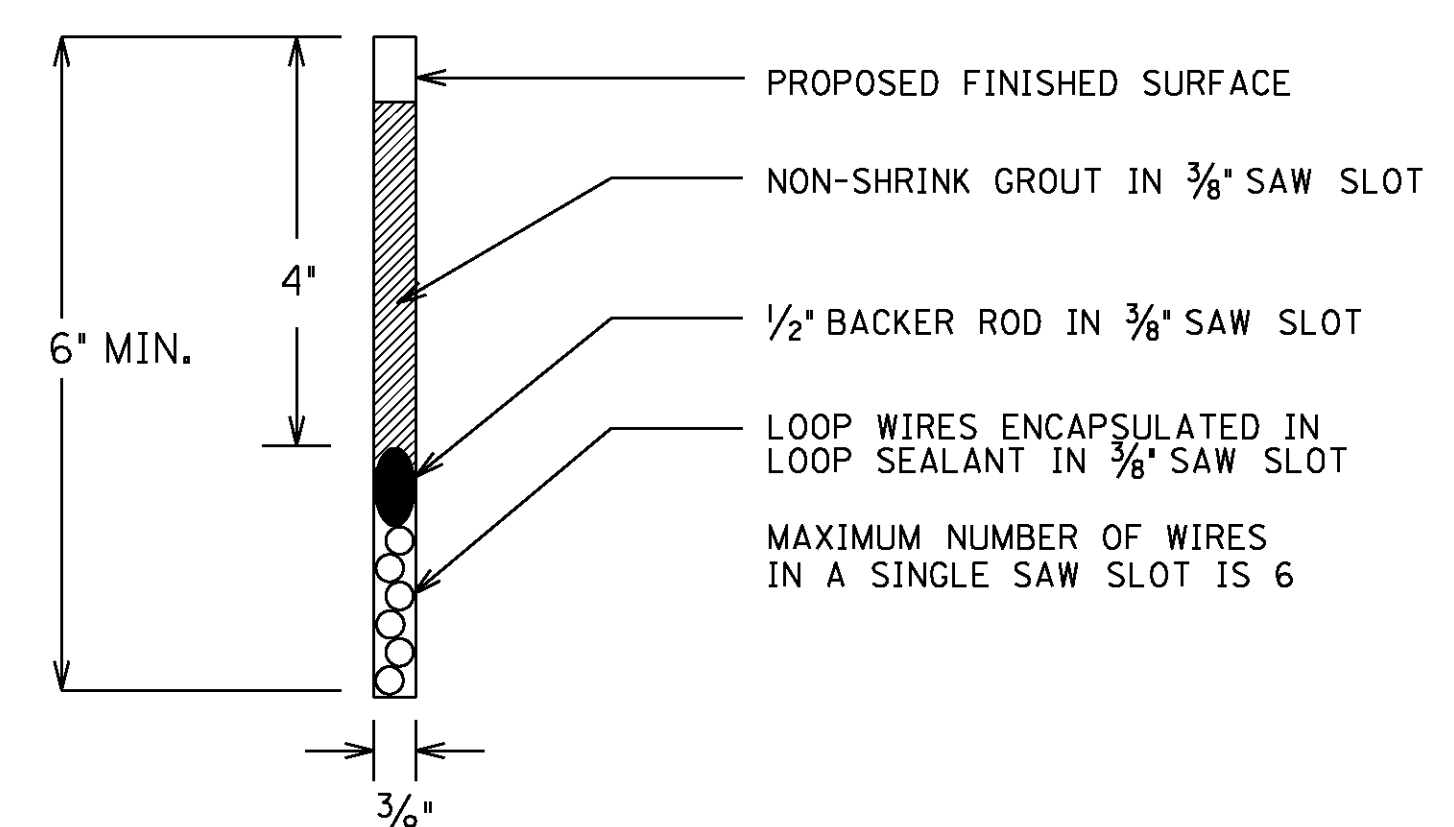


PAD MOUNT ENCLOSURE

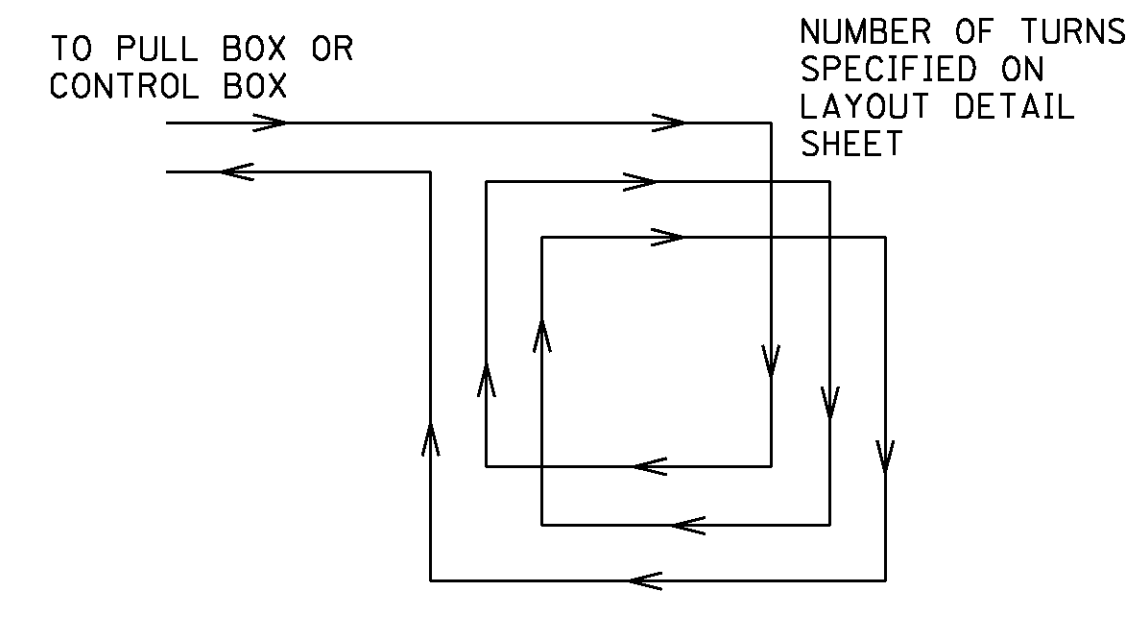
CONTROLLER CABINET DETAIL

FILE NAME: G:\USERS\CHARLES.WEITZEL\DESKTOP\DI LYON ESHEETS SIGNAL\ESHEETS\T0800CA.DGN  
 USER: charles.weitzel  
 DATE PLOTTED: September 9, 2013  
 E-SHEET NAME: T0800CA  
 E-SHEET: 7.443  
 MicroStation v8.11.7.443

FILE NAME: G:\USERS\CHARLES.WEITZEL\DESKTOP\DI LYON ESHEETS SIGNAL VESHEETS\T0900LP.DGN  
 USER: charles.weitzel  
 DATE PLOTTED: September 9, 2013  
 E-SHEET NAME: T0900LP  
 MicroStation v8.11.7.443  
 6/22/2012

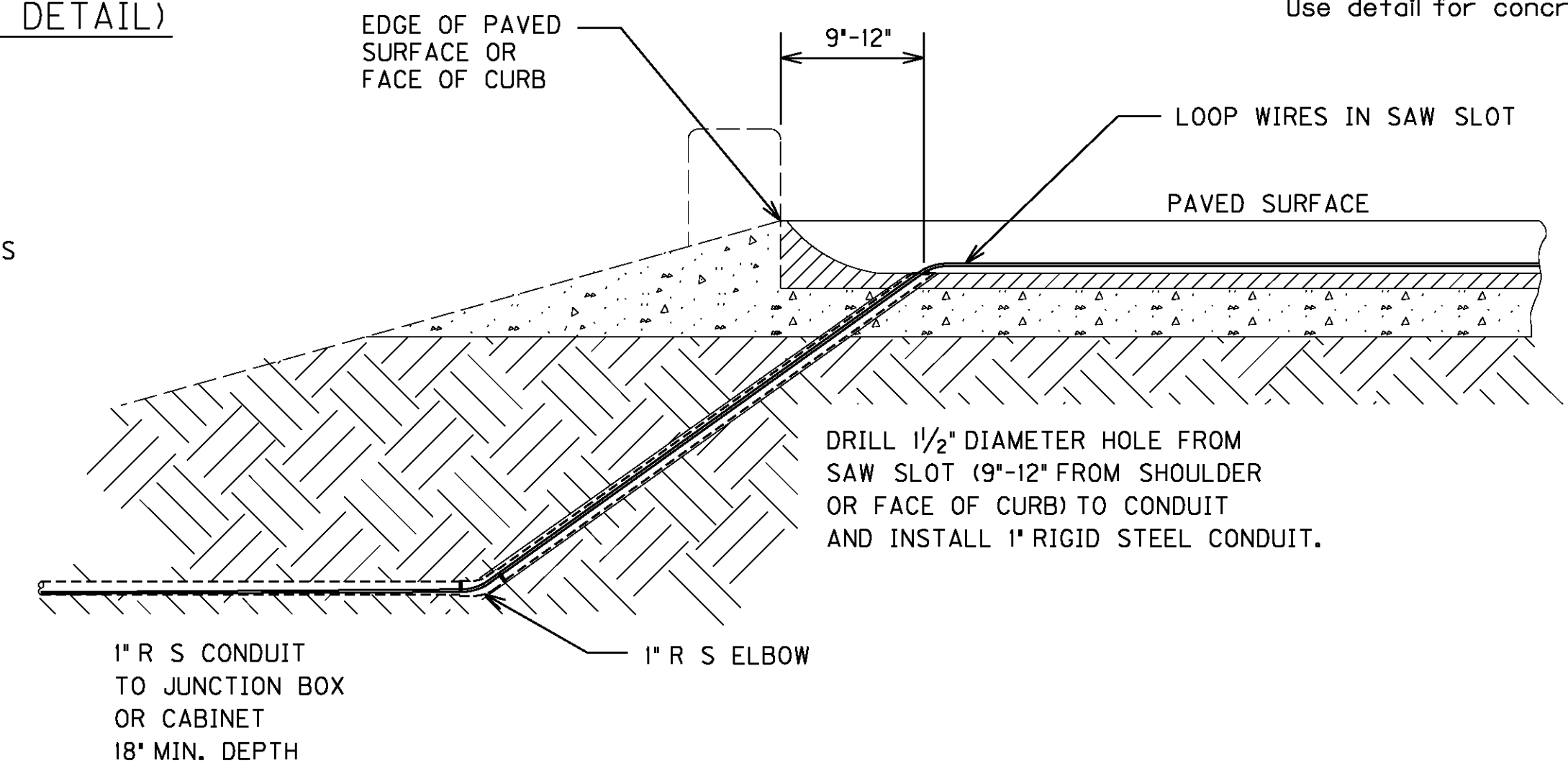


SAW CUT PLAN

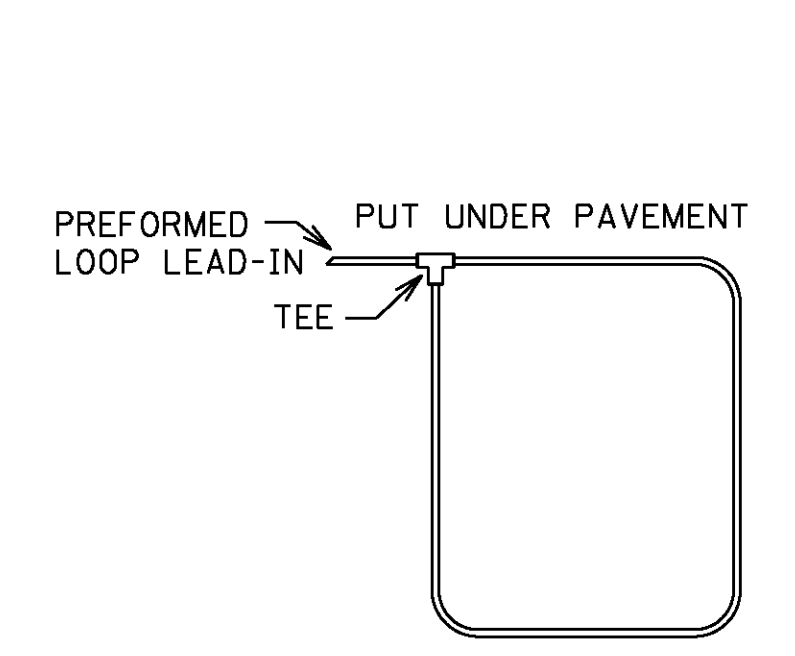


LOOP WIRE PLAN

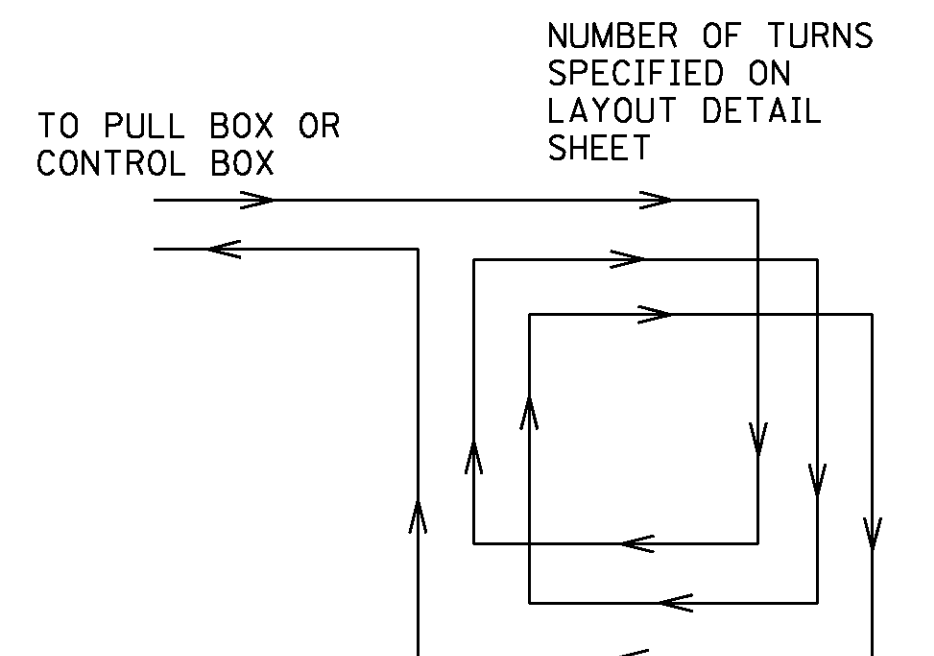
6'x6' LOOP



SAW SLOT EDGE OF PAVEMENT TRANSITION

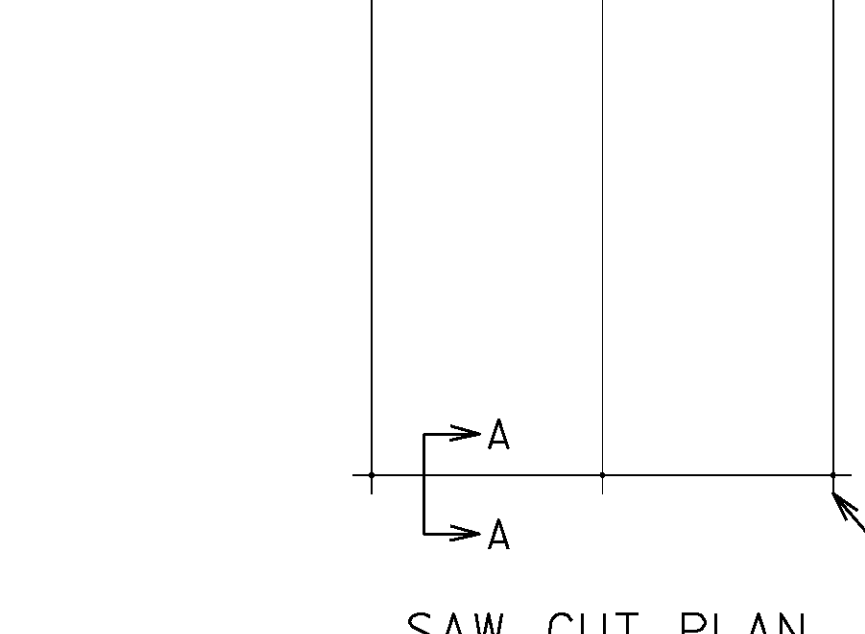
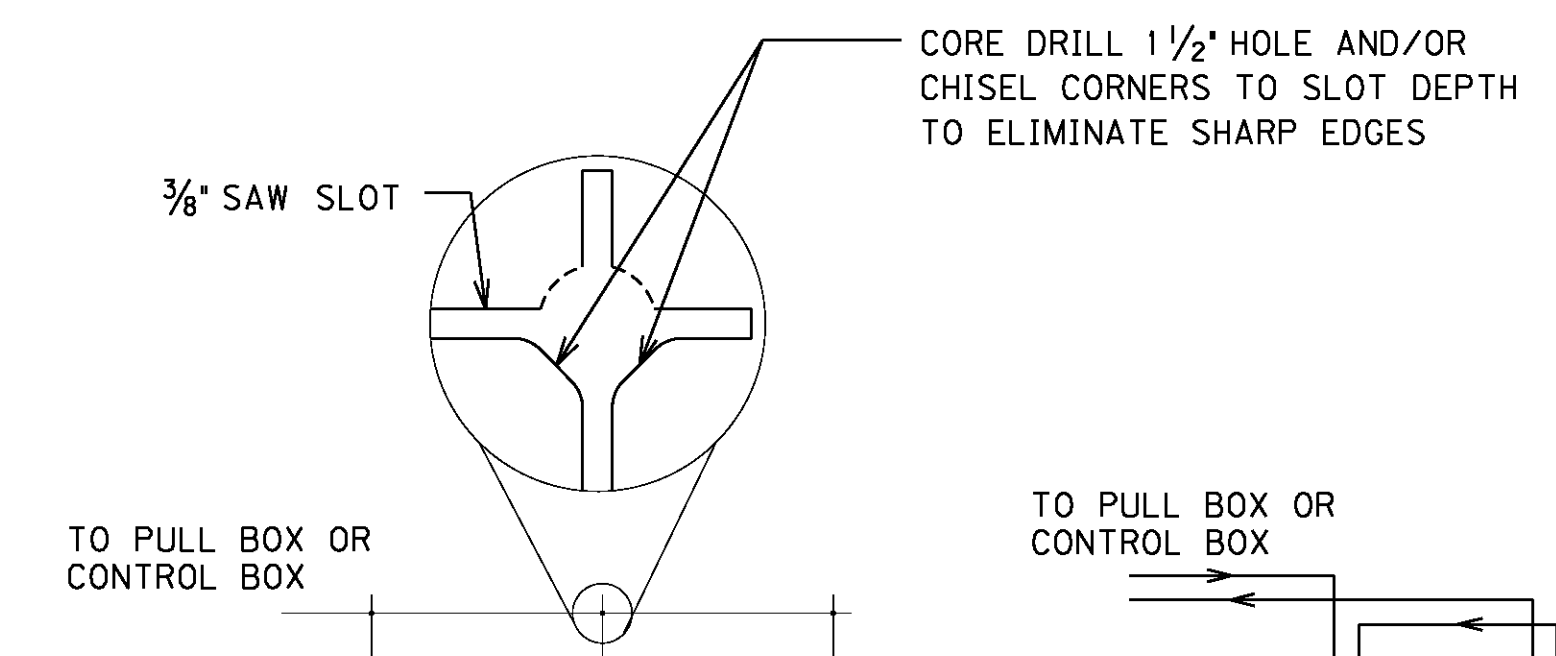


PREFORMED LOOP DIAGRAM

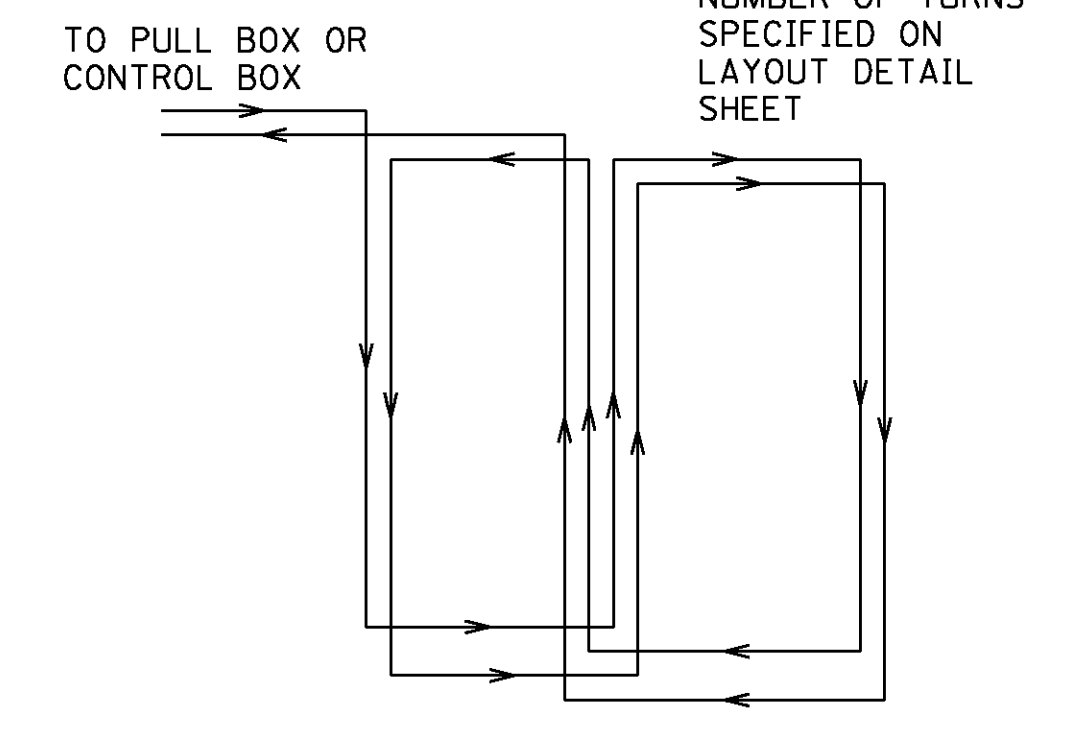


LOOP WIRE PLAN

6'x6' PREFORMED LOOP



SAW CUT PLAN

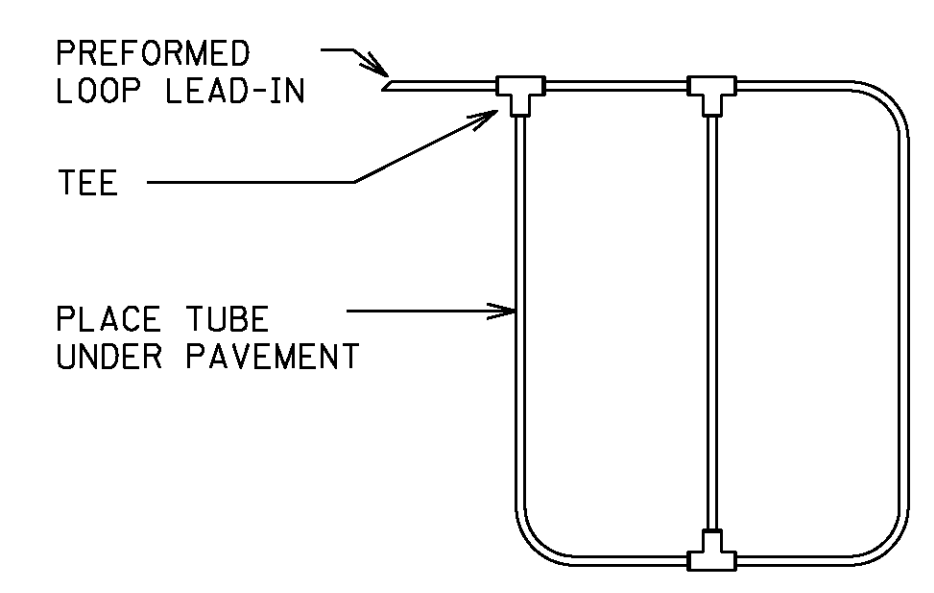


WIRING PLAN

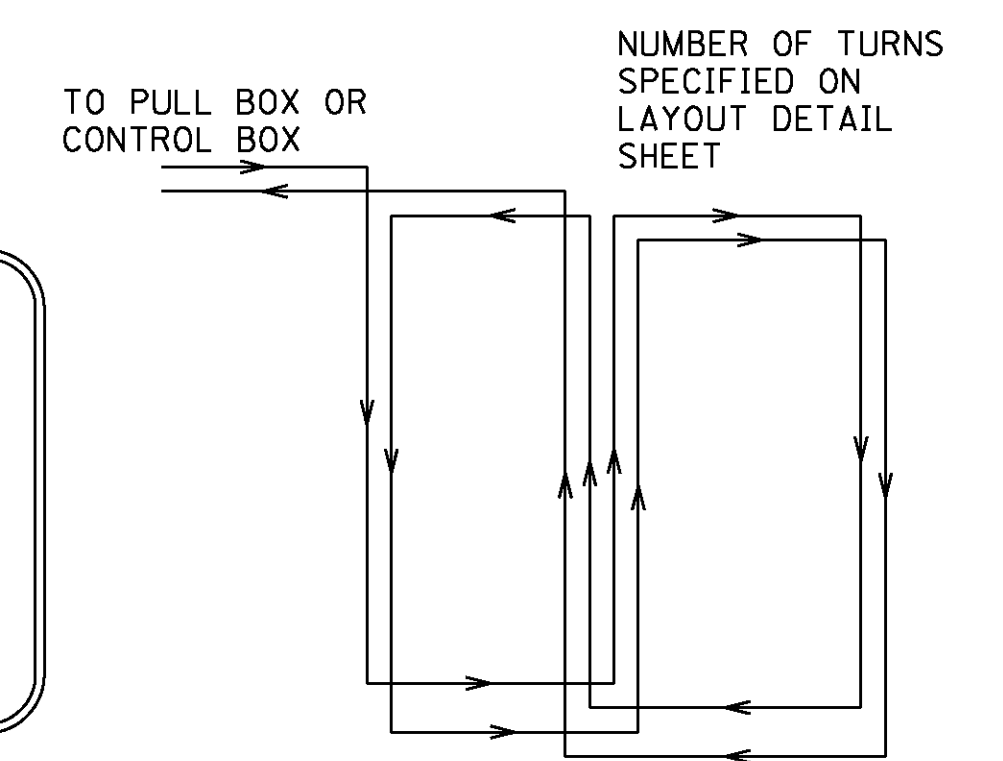
6'x30' QUADRAPOLE LOOP

- CONSTRUCTION DETAILS FOR LOOP SAW SLOT AND FILL BID ITEM:  
 THE FOLLOWING IS A TYPICAL STEP BY STEP PROCEDURE FOR THE INSTALLATION OF A LOOP.
- CAREFULLY MARK THE SLOT TO BE CUT, PERPENDICULAR TO THE FLOW OF TRAFFIC AND CENTERED IN THE LANE.
  - MAKE EACH SAW-CUT 3/8 INCH WIDE AND AT A DEPTH SUCH THAT THE TOP OF THE BACKER ROD IS A MINIMUM OF 4 INCHES BELOW THE SURFACE OF ASPHALT PAVEMENT.
  - DRILL A 1 1/2 INCH CORE HOLE AT EACH CORNER AND USE A CHISEL TO SMOOTH THE CORNERS TO PREVENT SHARP BENDS IN THE WIRE.
  - CLEAN ALL FOREIGN AND LOOSE MATTER OUT OF THE SLOTS, DRILLED CORES, AND WITHIN 1 FOOT ON ALL SIDES OF THE SLOTS USING A HIGH PRESSURE WASHER.
  - COMPLETELY DRY THE SLOTS, DRILLED CORES, AND WITHIN 1 FOOT ON ALL SIDES OF THE SLOTS.
  - MEASURE 9-12 INCHES FROM THE EDGE OF THE PAVED SURFACE (SHOULDER BREAK OR FACE OF CURB) AND DRILL A 1 1/2 INCH HOLE ON A 45 DEGREE ANGLE TO THE CONDUIT ADJACENT TO THE ROADWAY.
  - CLOSELY INSPECT ALL CUTS, CORES, AND SLOTS FOR JAGGED EDGES OR PROTRUSIONS PRIOR TO THE PLACEMENT OF THE WIRE. ALL JAGGED EDGES AND PROTRUSIONS SHALL BE GROUND OR RE-CUT AND CLEANED AGAIN.
  - INSTALL 1" RIGID STEEL CONDUIT IN 45 DEGREE DRILLED SLOT. CONNECT CONDUIT TO 1" RIGID STEEL CONDUIT ADJACENT TO THE ROADWAY WITH RIGID STEEL ELBOW.
  - PLACE THE LOOP WIRE SPLICE-FREE FROM THE TERMINATION POINT.
  - PUSH THE WIRE INTO THE SAW SLOT WITH A BLUNT OBJECT SUCH AS A WOODEN STICK. MAKE SURE THAT THE LOOP WIRE IS PUSHED FULLY TO THE BOTTOM OF THE SAW SLOT. SCREWDRIVERS SHALL NOT BE USED.
  - INSTALL DUCT SEALANT TO A MINIMUM OF 1 INCH DEEP INTO THE CORED 1 1/2 INCH HOLE.
  - APPLY LOOP SEALANT FROM THE BOTTOM UP AND FULLY ENCAPSULATE THE LOOP WIRES IN THE SAW SLOT. THE WIRE SHOULD NOT BE ABLE TO MOVE WHEN THE SEALANT HAS SET.
  - COVER THE ENCAPSULATED LOOP WIRE WITH A CONTINUOUS LAYER OF BACKER ROD ALONG THE ENTIRE LOOP AND HOME RUN SAW SLOTS SUCH THAT NO VOIDS ARE PRESENT BETWEEN THE LOOP SEALANT AND BACKER ROD.
  - FINISH FILLING THE SAW CUT WITH NON-SHRINKABLE GROUT PER MANUFACTURER'S INSTRUCTIONS. ALLEVIATE ALL AIR POCKETS AND REFILL LOW SPACES. THERE SHALL BE NO CONCAVE PORTION TO THE GROUT IN THE SAW SLOT. ANY EXCESS GROUT SHALL BE CLEANED FROM THE ROADWAY TO ALLEVIATE TRACKING.
  - CLEAN UP THE SITE AND DISPOSE OF ALL WASTE OFF THE PROJECT.
  - ENSURE THAT THE GROUT HAS COMPLETELY CURED PRIOR TO SUBJECTING THE LOOP TO TRAFFIC. CURING TIME VARIES WITH TEMPERATURE AND HUMIDITY.

PREFORMED LOOP LEAD-IN SHALL BE TWISTED WITH THREE TO FIVE TURNS PER FOOT UNTIL TERMINATED AT FIELD CONNECTIONS IN THE CABINET OR CONNECTED TO SHIELDED CABLE.



PREFORMED LOOP DIAGRAM



LOOP WIRE PLAN

6'x30' QUADRAPOLE PREFORMED LOOP

**NOTES:**

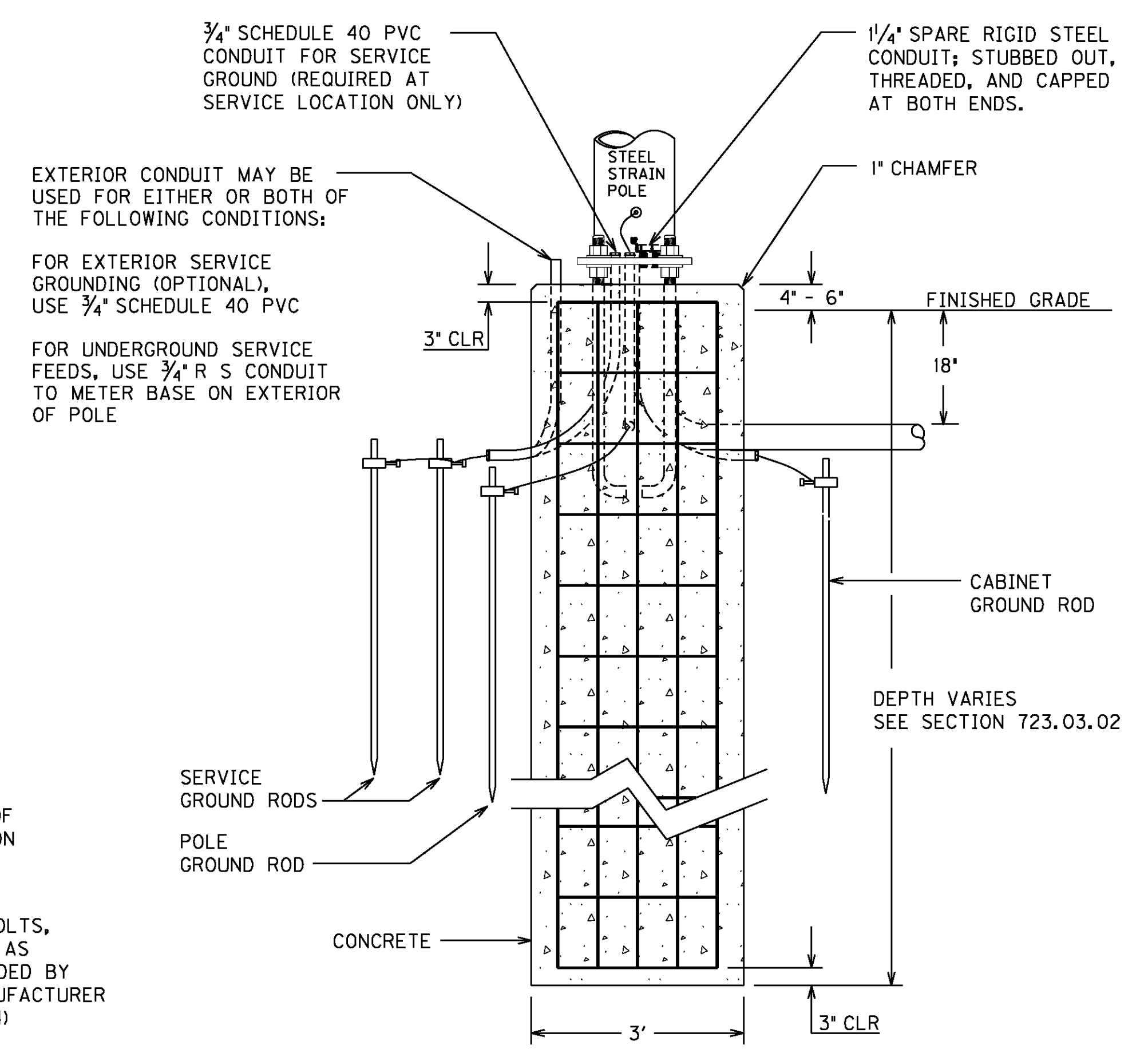
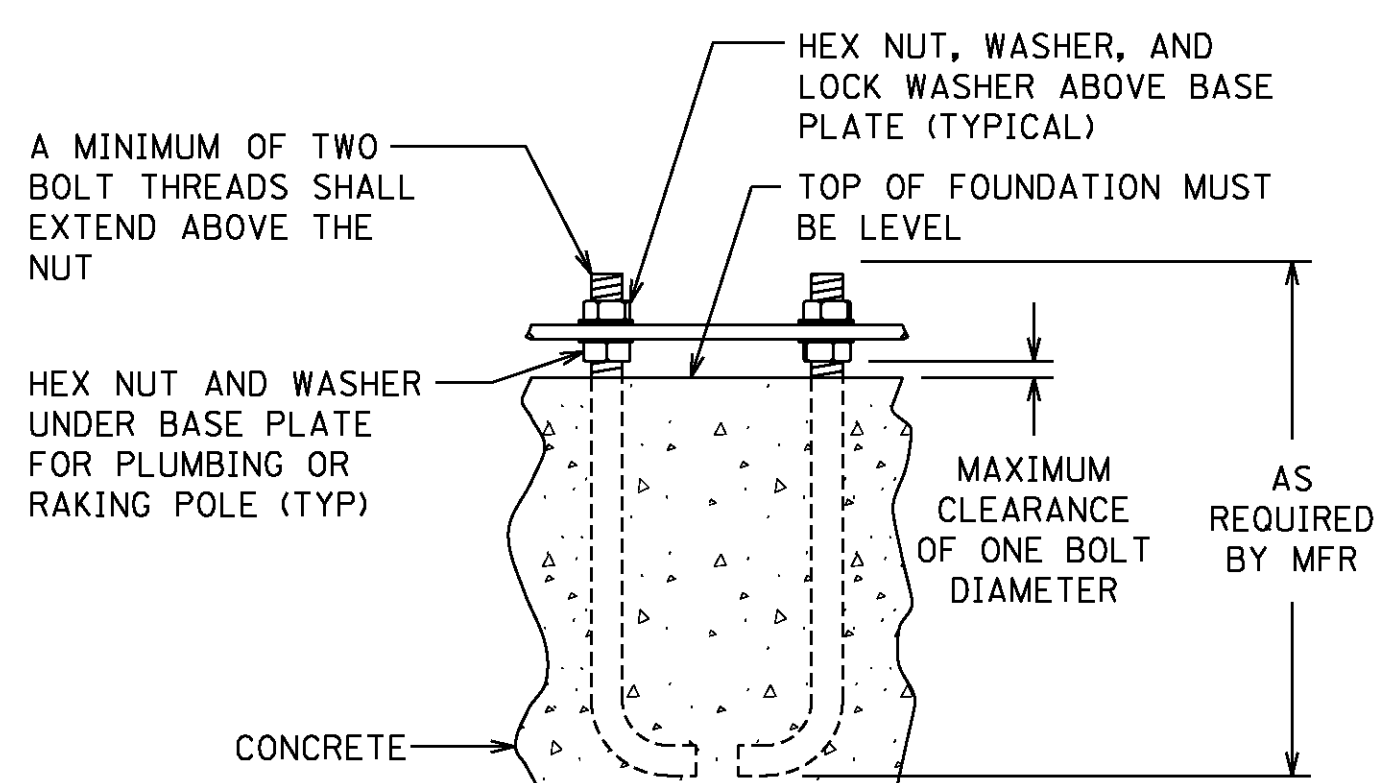
ALL CONDUITS USED FOR THE TELEPHONE, GROUNDING, SPARE, AND SERVICE THAT ARE INSTALLED IN THE POLE BASE ARE INCIDENTAL TO BID ITEM "23157EN". THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE CONCRETE POLE BASE.

ALL CONDUITS SHALL BE INSTALLED 6 INCHES ABOVE THE CONCRETE POLE BASE.

FOR POLE BASE DEPTH SEE CHART IN SECTION 723 OF THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.

OVERHEAD SERVICE WIRES SHALL BE INSTALLED ON THE EXTERIOR OF THE POLE IN A 3/4" RIGID STEEL CONDUIT WITH WEATHERHEAD, OR ON THE INSIDE THE STEEL STRAIN POLE IN FLEXIBLE CONDUIT.

UNDERGROUND SERVICE WIRES SHALL BE INSTALLED IN 3/4" RIGID STEEL CONDUIT AS SHOWN ON THE CONTROLLER CABINET DETAIL SHEET.



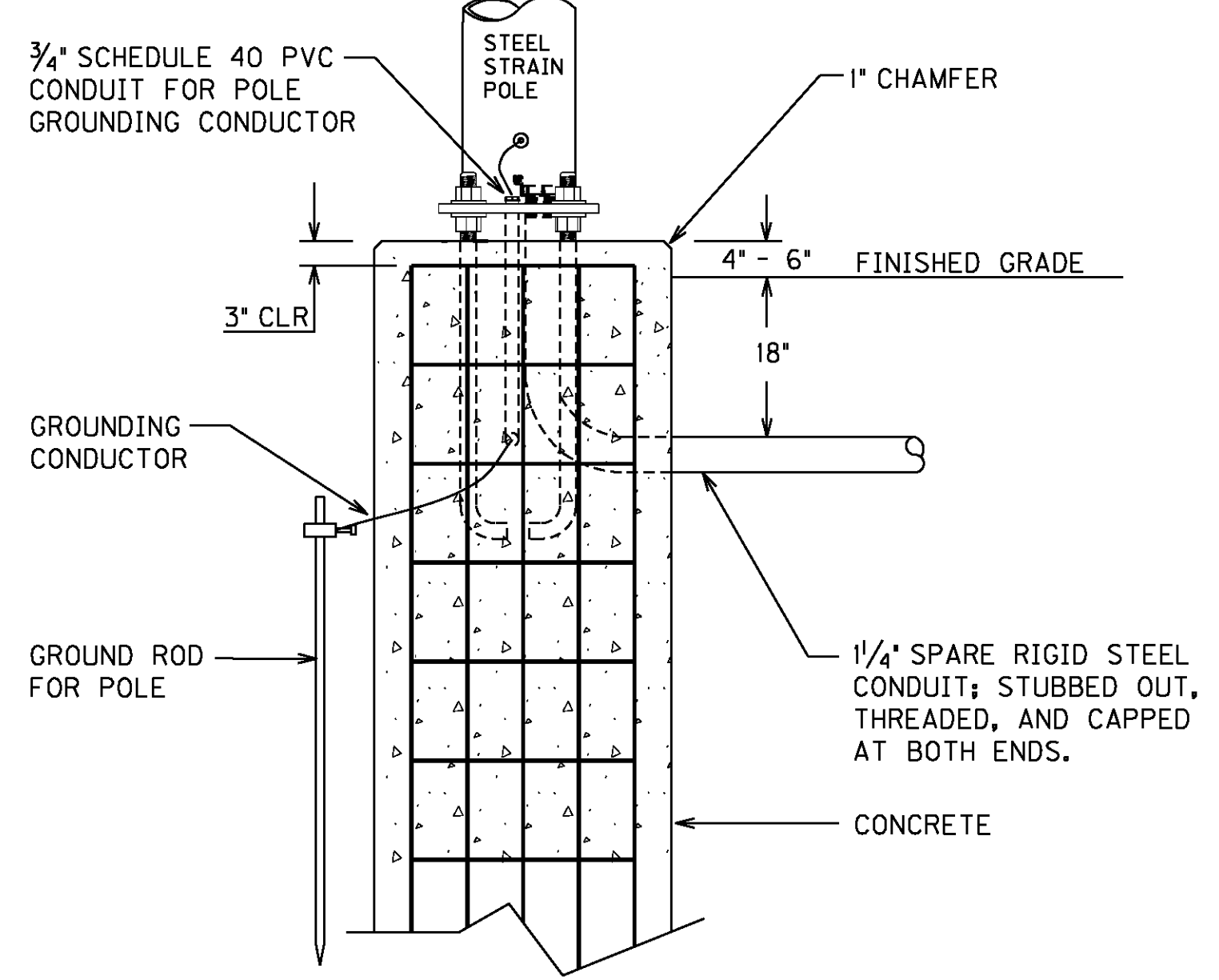
**STEEL STRAIN POLE BASE WITH SERVICE, POLE, AND POLE MOUNTED CABINET GROUNDING DETAILS**

**GROUNDING REQUIREMENTS:**

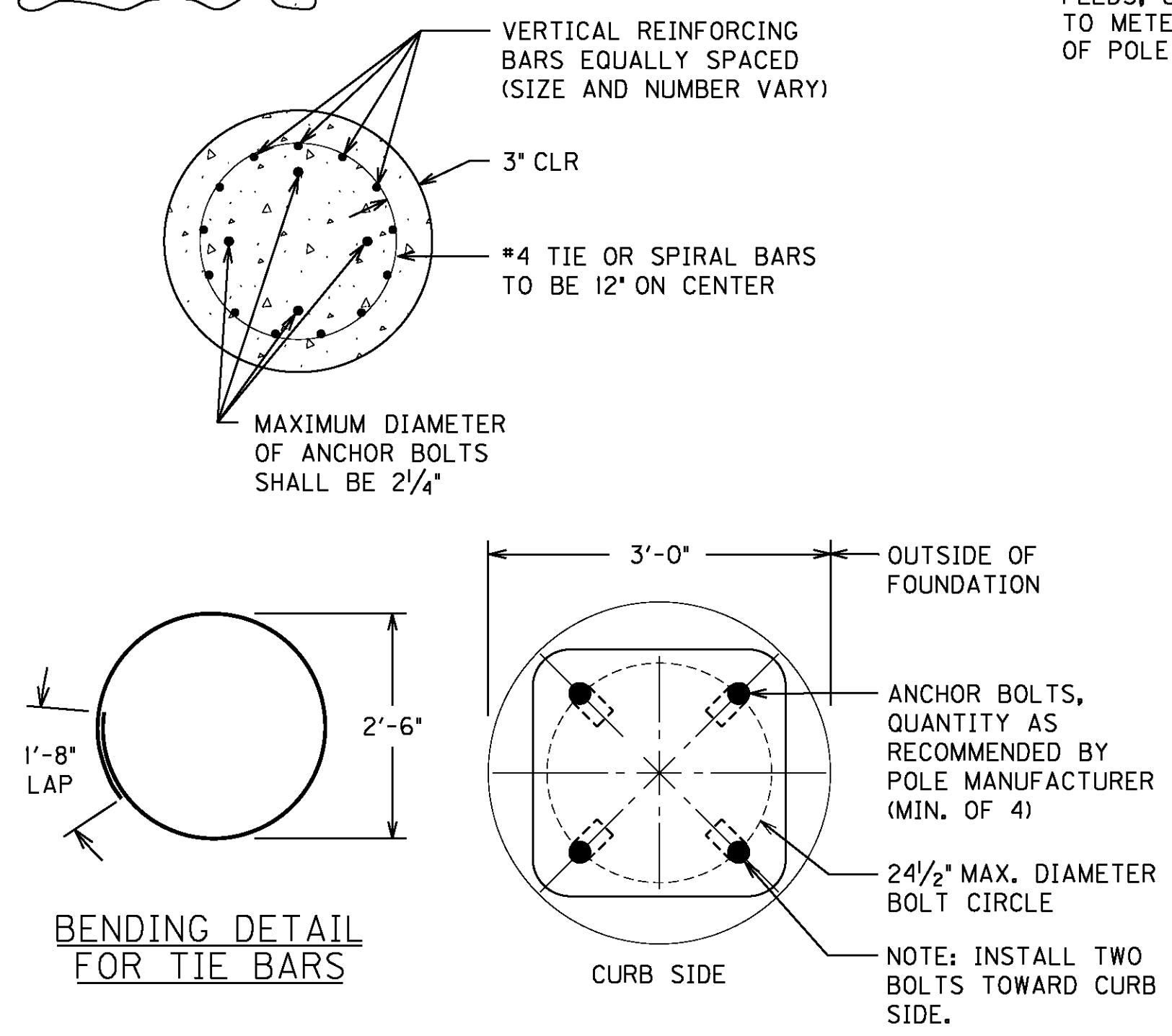
CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE FOR TESTING PRIOR TO CONNECTING THE WIRE TO ANY DISCONNECT, CABINET OR POLE.

LEAVE TOP OF GROUND RODS EXPOSED FOR ELECTRICAL INSPECTION.

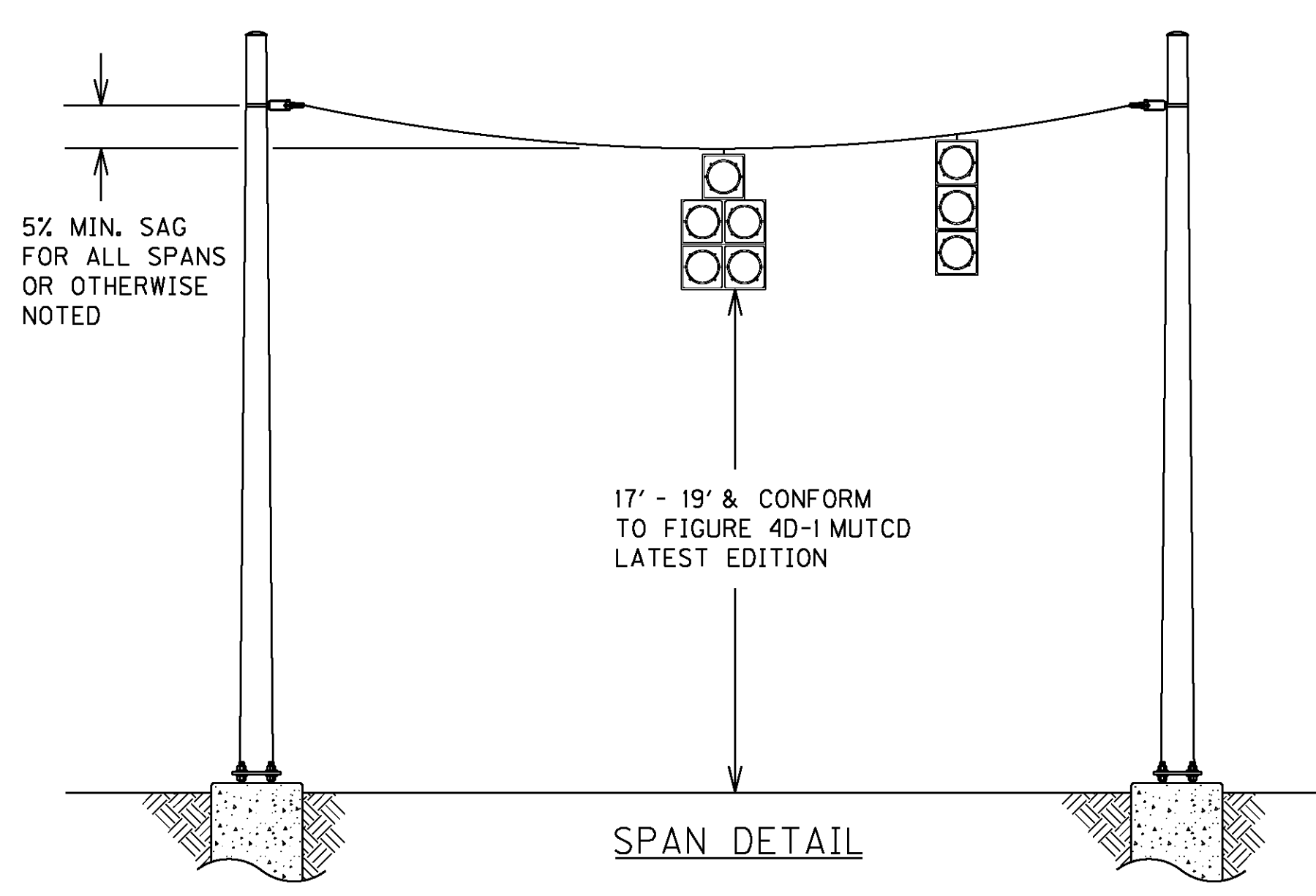
POLE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE POLE AND THEN TO EACH RIGID STEEL GROUNDING BUSHING.



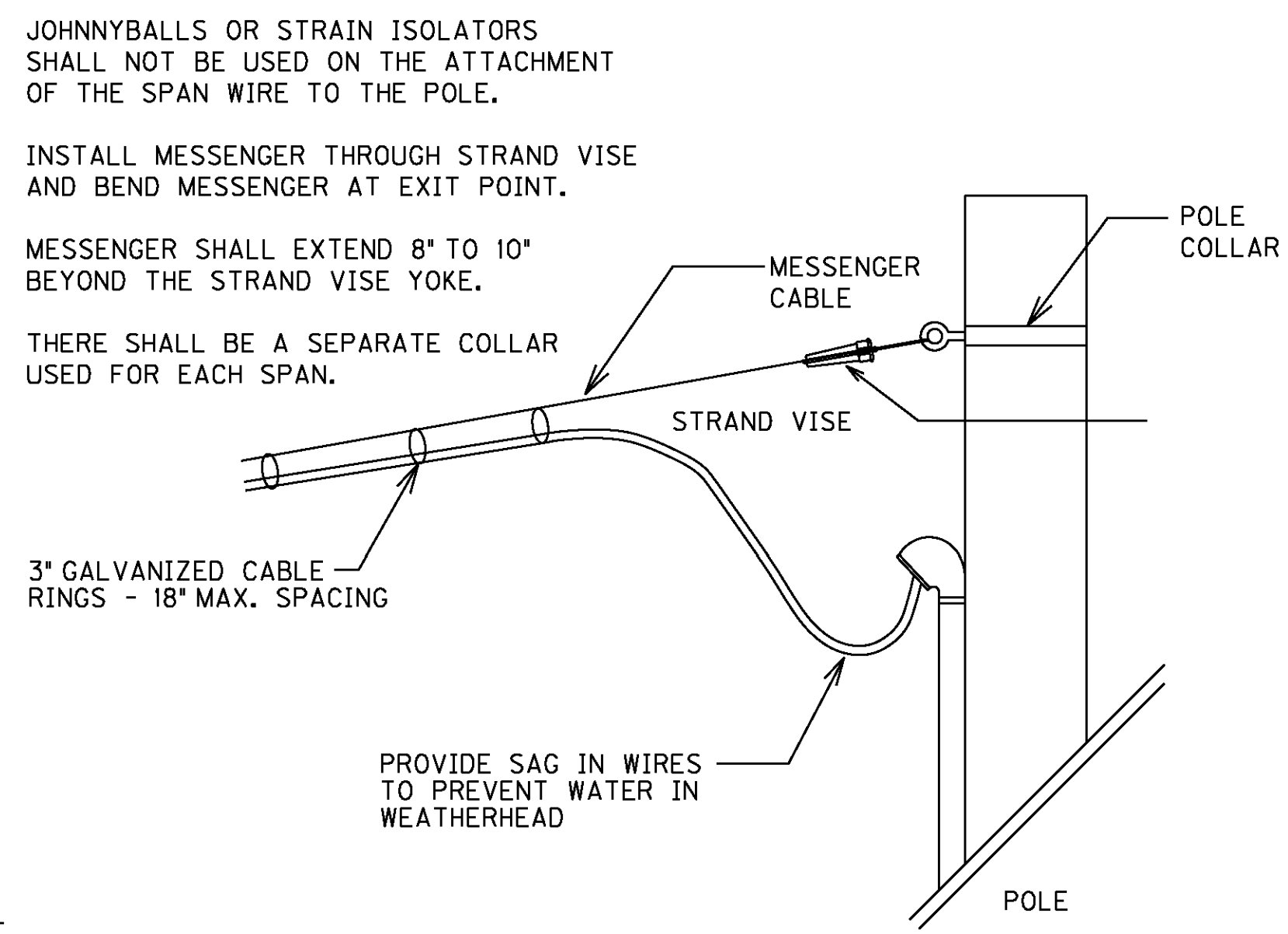
**STEEL STRAIN POLE BASE WITH POLE GROUND DETAIL**



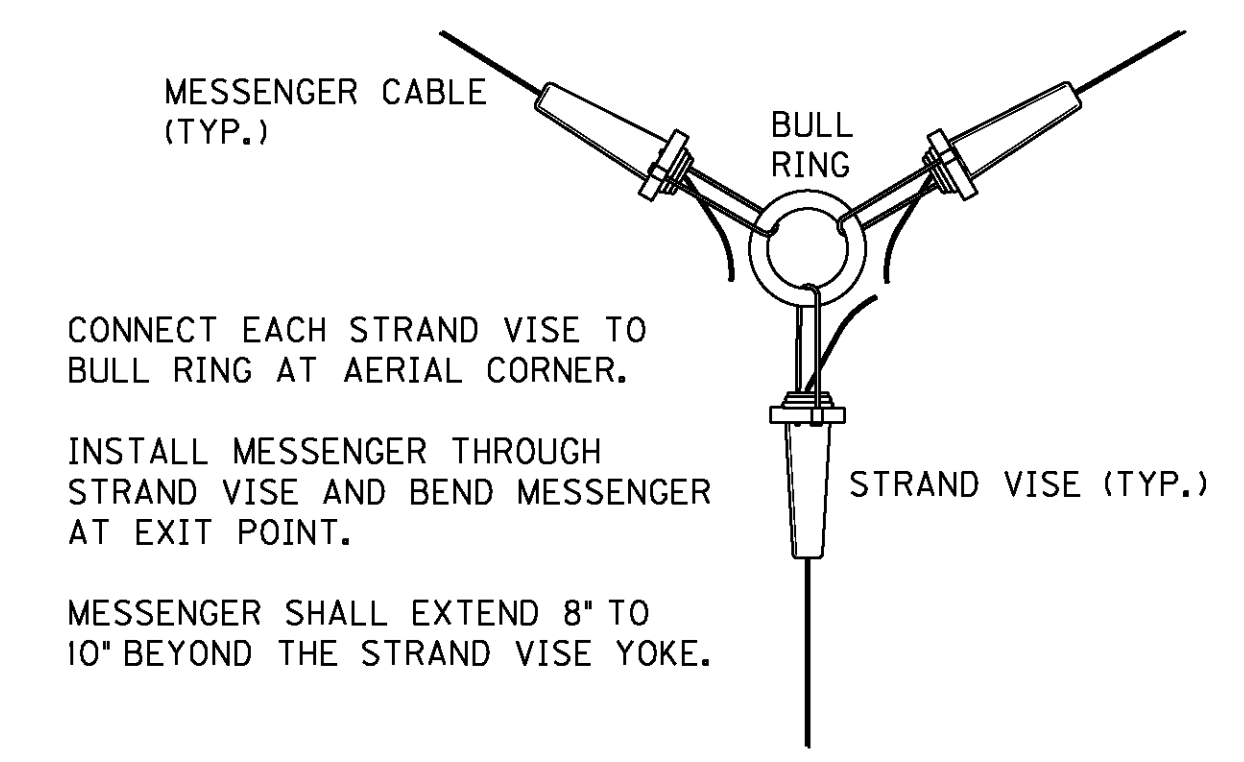
**BENDING DETAIL FOR TIE BARS**



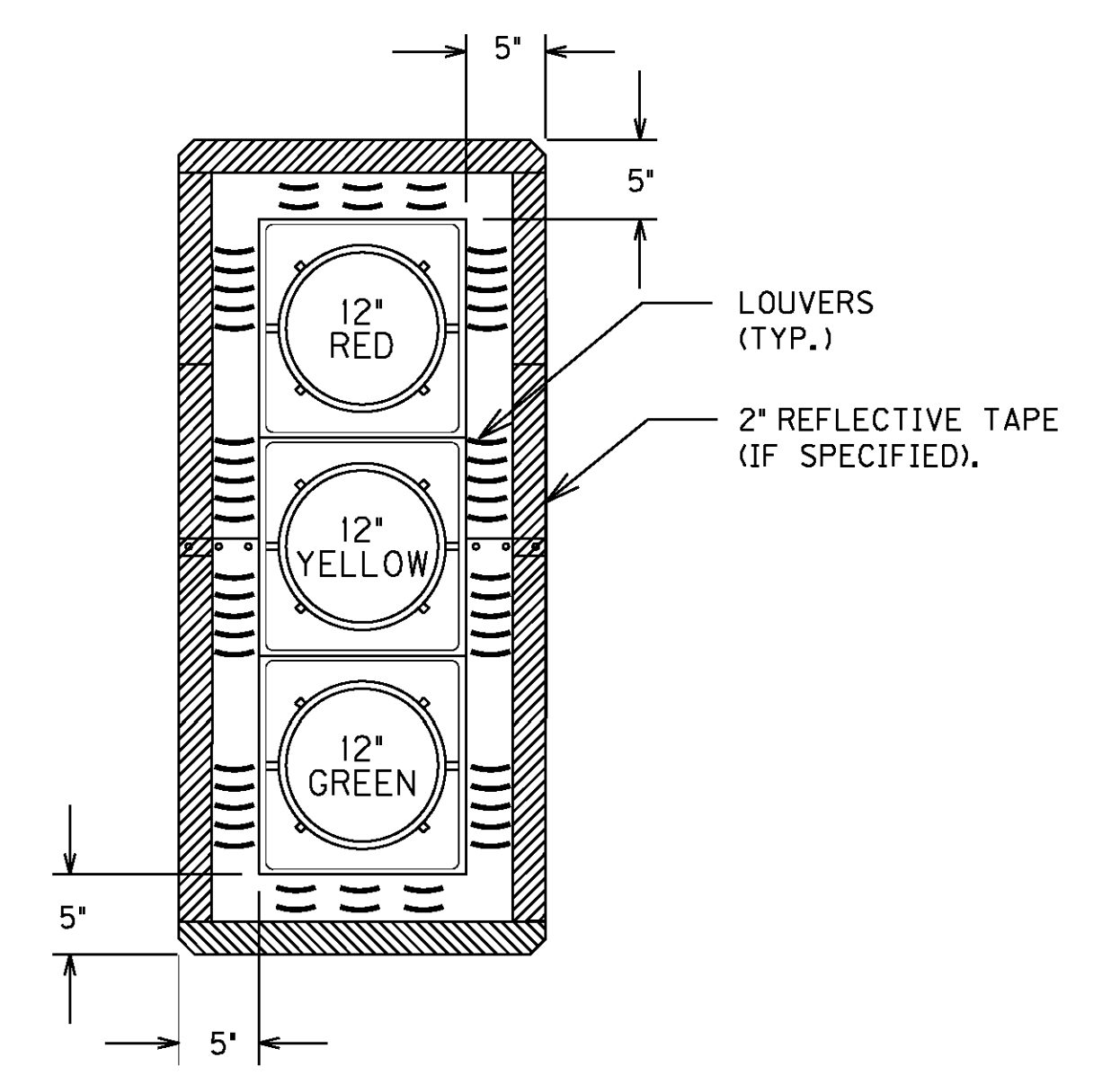
**SPAN DETAIL**



**SPAN WIRE DETAIL**



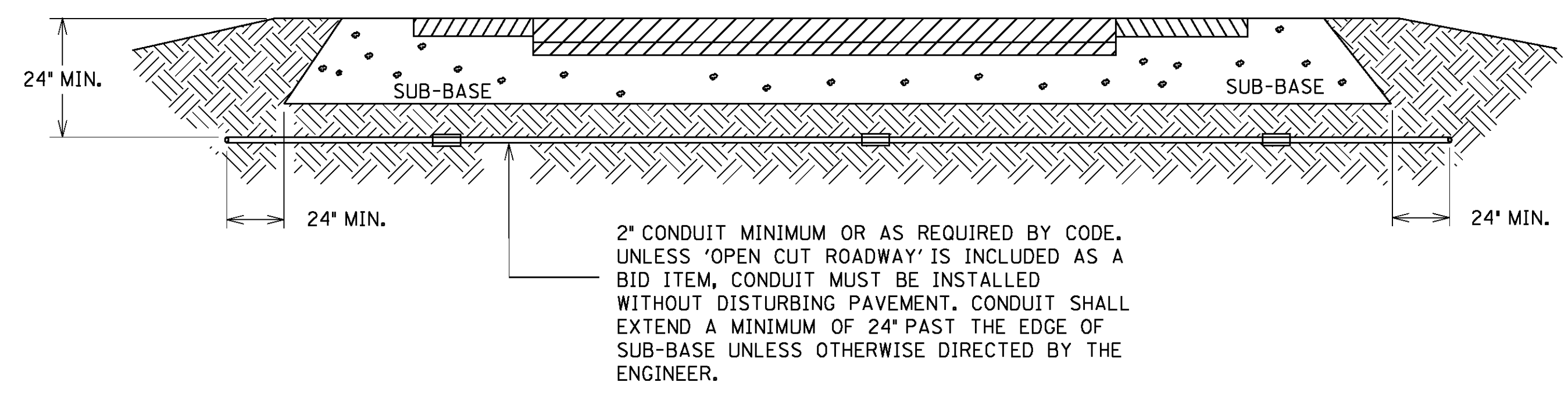
**DROP BOX AERIAL CORNER DETAIL**



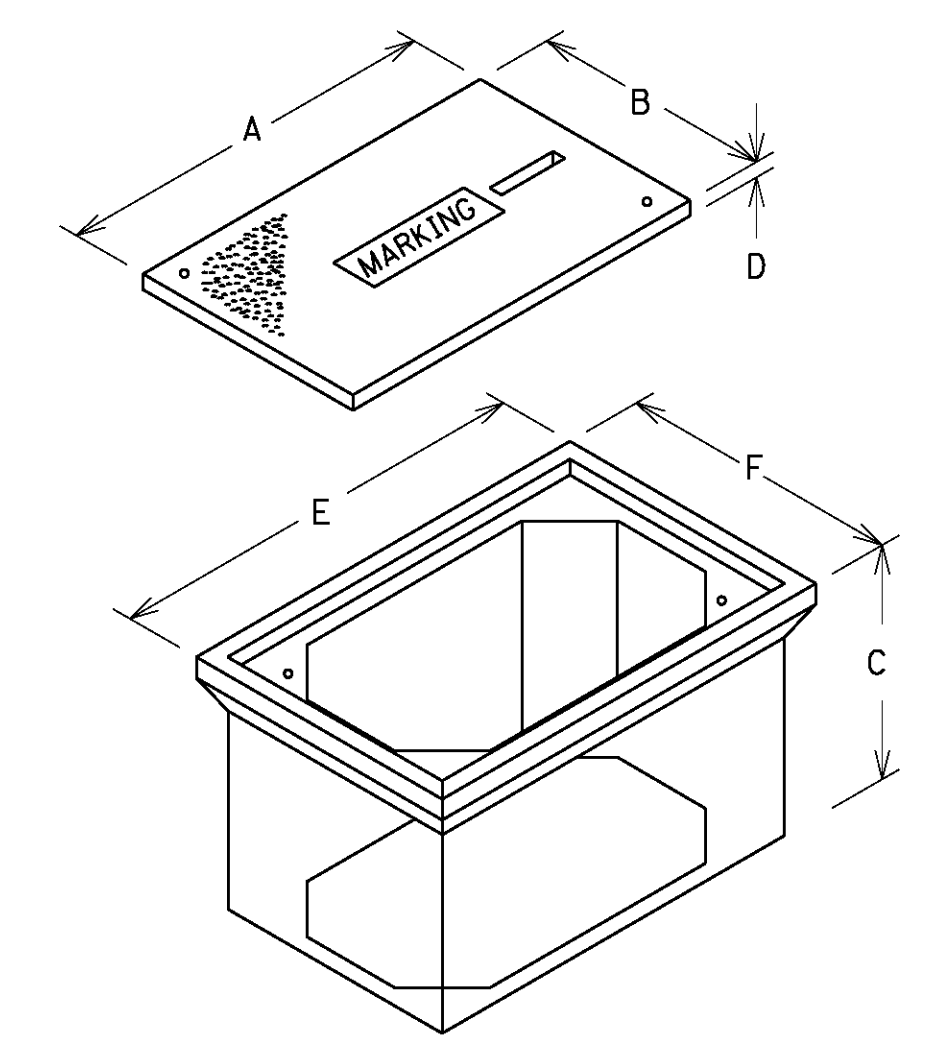
**BACKPLATE DETAIL**

**POLE BASE/SIGNAL HEAD DETAILS**

FILE NAME: G:\USERS\CHARLES.WEITZEL\DESKTOP\DI\LYON ESHEETS SIGNAL SHEETS\T02000PO.DGN  
 USER: charles.weitzel  
 DATE PLOTTED: September 9, 2013  
 E-SHEET NAME: T02000PO  
 MicroStation v8.11.7.443

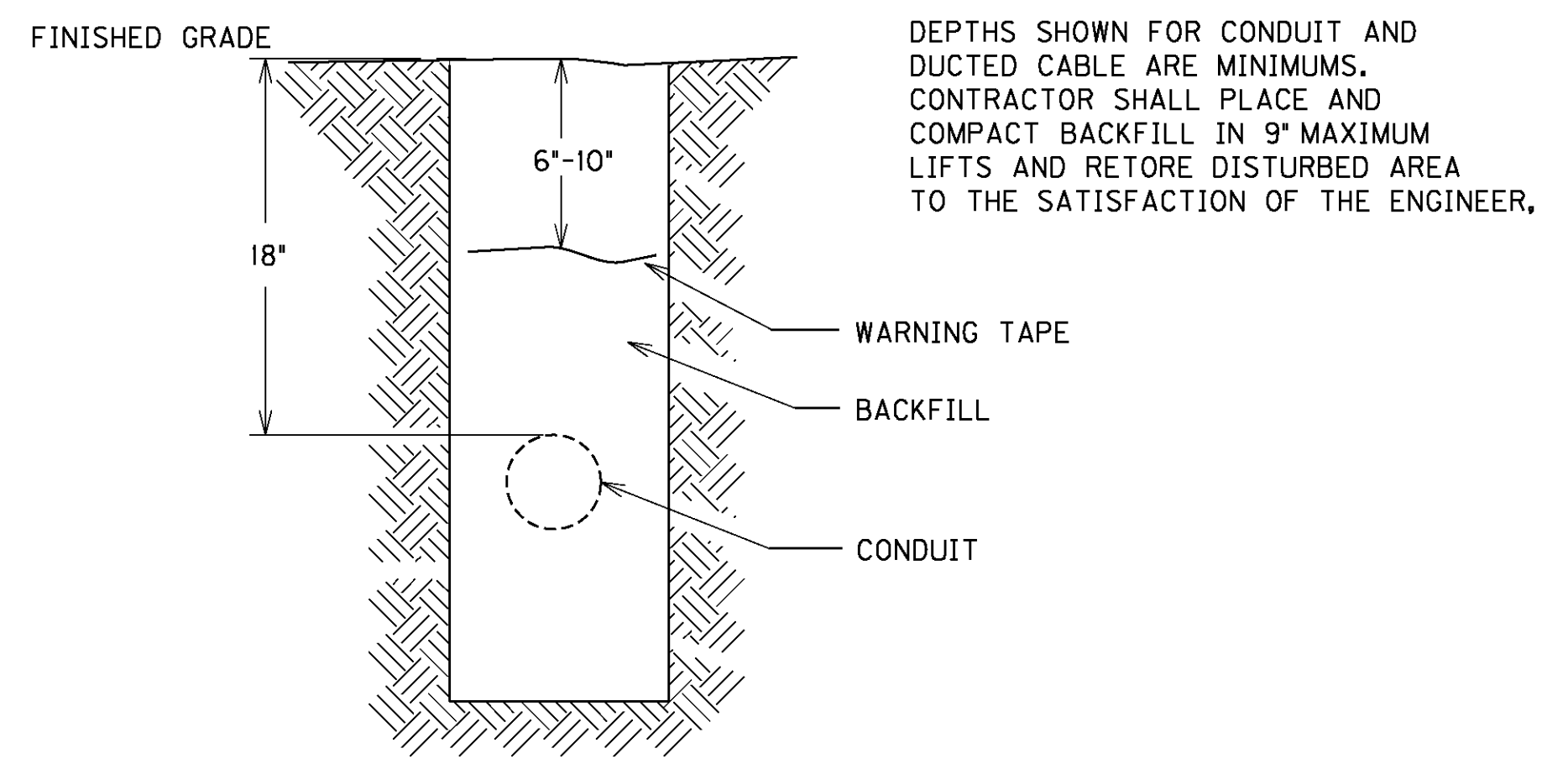


CONDUIT INSTALLATION UNDER EXISTING PAVEMENT DETAIL

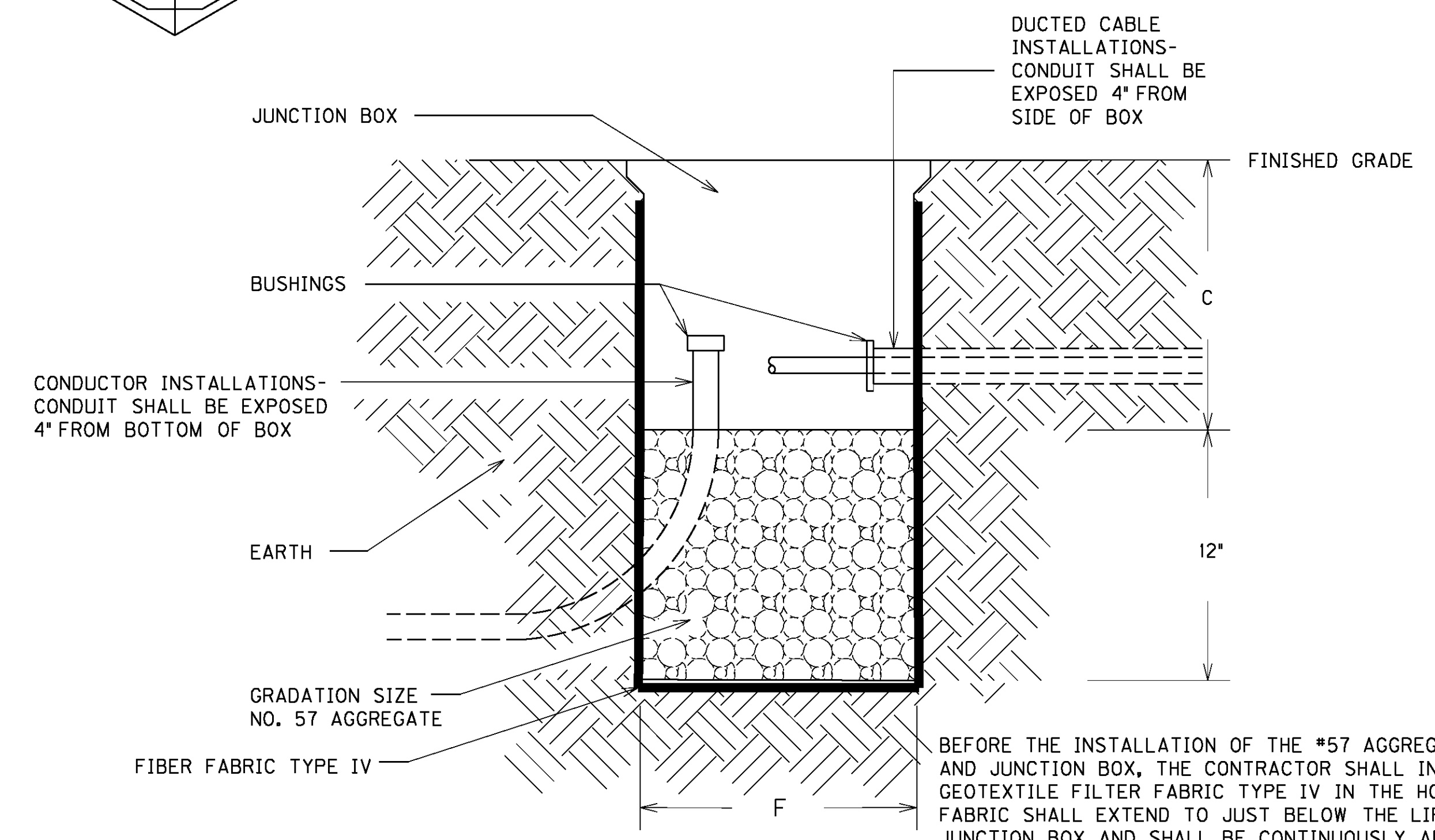


JUNCTION BOX DIMENSIONS (NOMINAL)						
	A	B	C	D	E	F
TYPE A	23"	14"	27"	2"	25"	15"
TYPE B	18"	11"	12"	1 3/4"	20"	13"
TYPE C	36"	24"	30"	3"	38"	26"

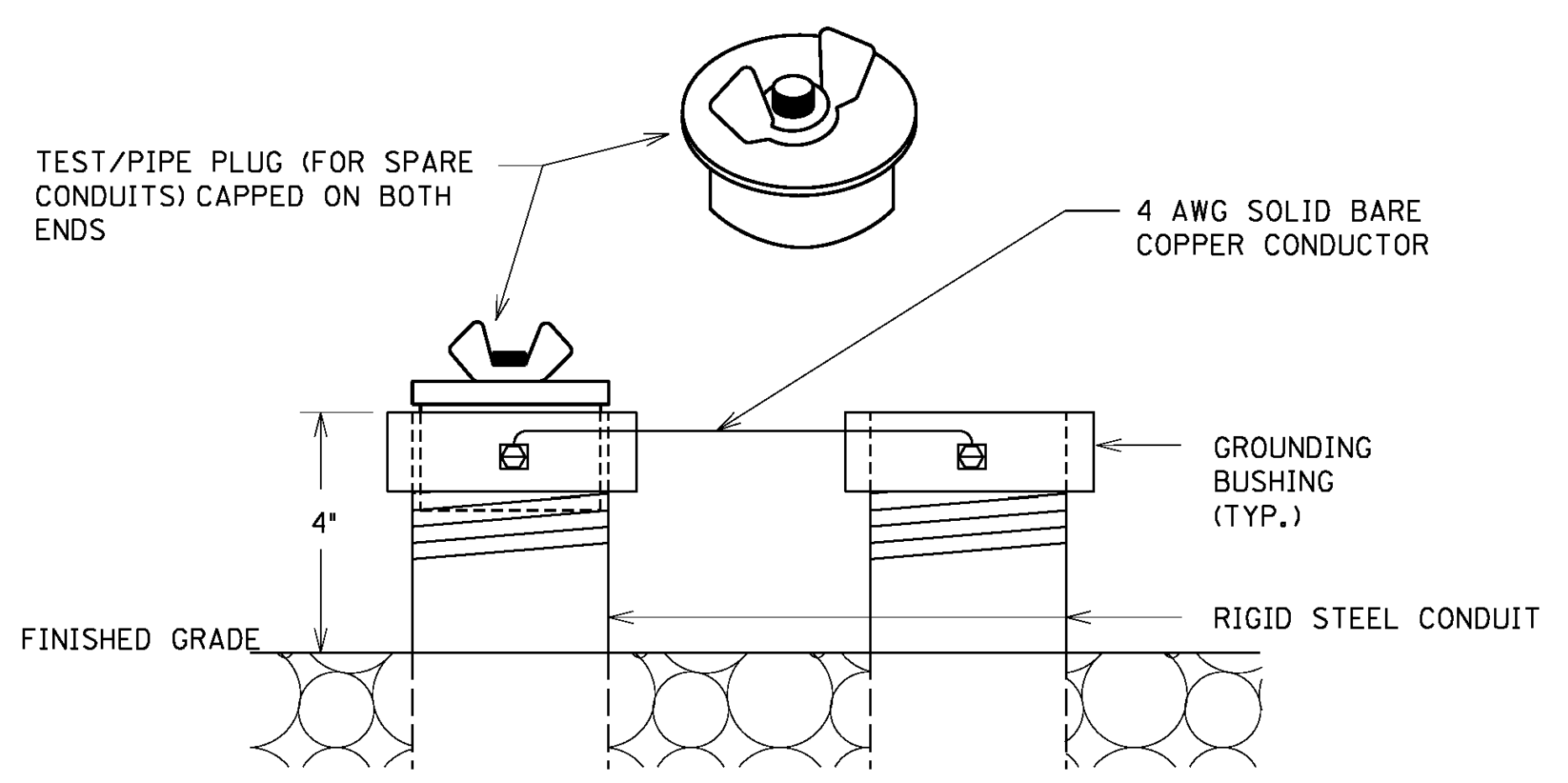
• MINIMUM  
NOTE: STACKABLE BOXES ARE PERMITTED



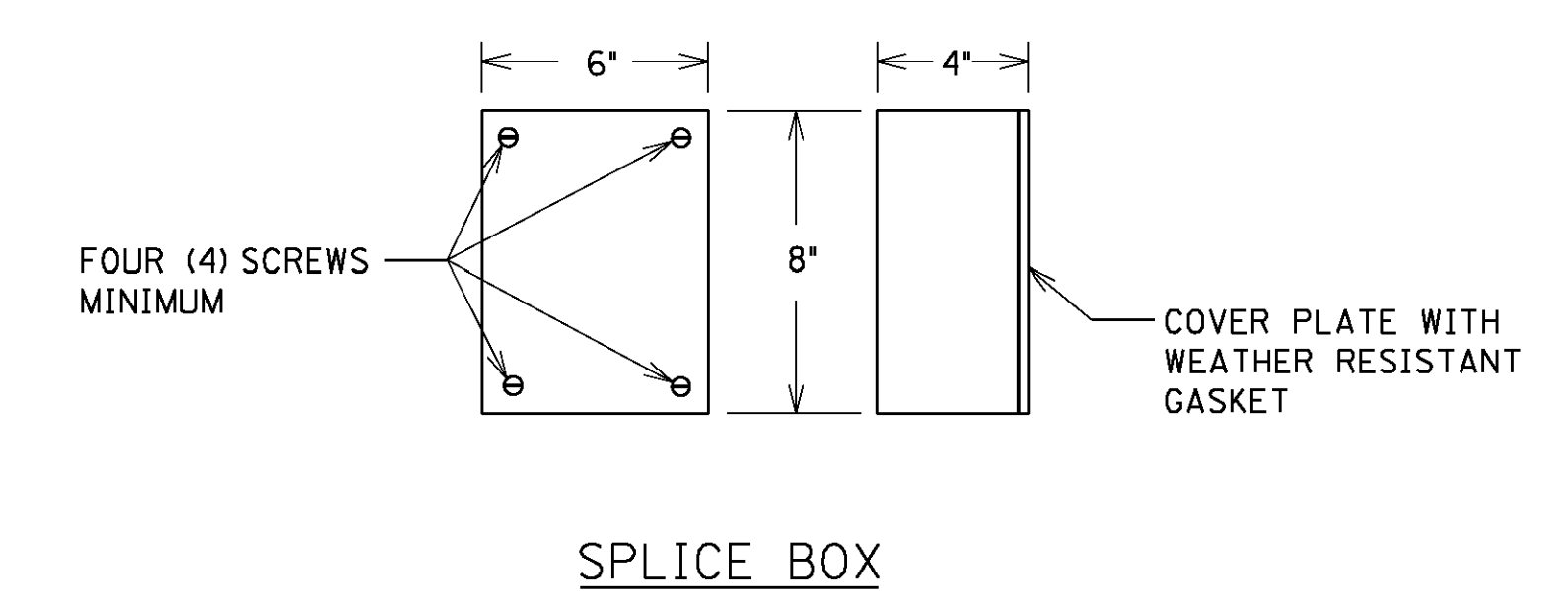
CONDUIT AND WARNING TAPE TRENCH



BEFORE THE INSTALLATION OF THE #57 AGGREGATE AND JUNCTION BOX, THE CONTRACTOR SHALL INSTALL GEOTEXTILE FILTER FABRIC TYPE IV IN THE HOLE. THE FABRIC SHALL EXTEND TO JUST BELOW THE LIP OF THE JUNCTION BOX AND SHALL BE CONTINUOUSLY ADHERED TO THE EXTERIOR OF THE BOX WITH ADHESIVE. ANY LOCATIONS WHERE CONDUITS ENTER THE BOX, THE FABRIC SHALL BE "X CUT" ONLY AS MUCH AS NECESSARY TO ALLOW PASSAGE OF EACH INDIVIDUAL CONDUIT THROUGH THE FABRIC. THE FABRIC SHALL BE INCIDENTAL TO BID ITEMS 48H, 2039INS835, OR 20392NS835.



TEST/PIPE PLUG(FOR SPARE CONDUITS) AND GROUNDING DETAIL



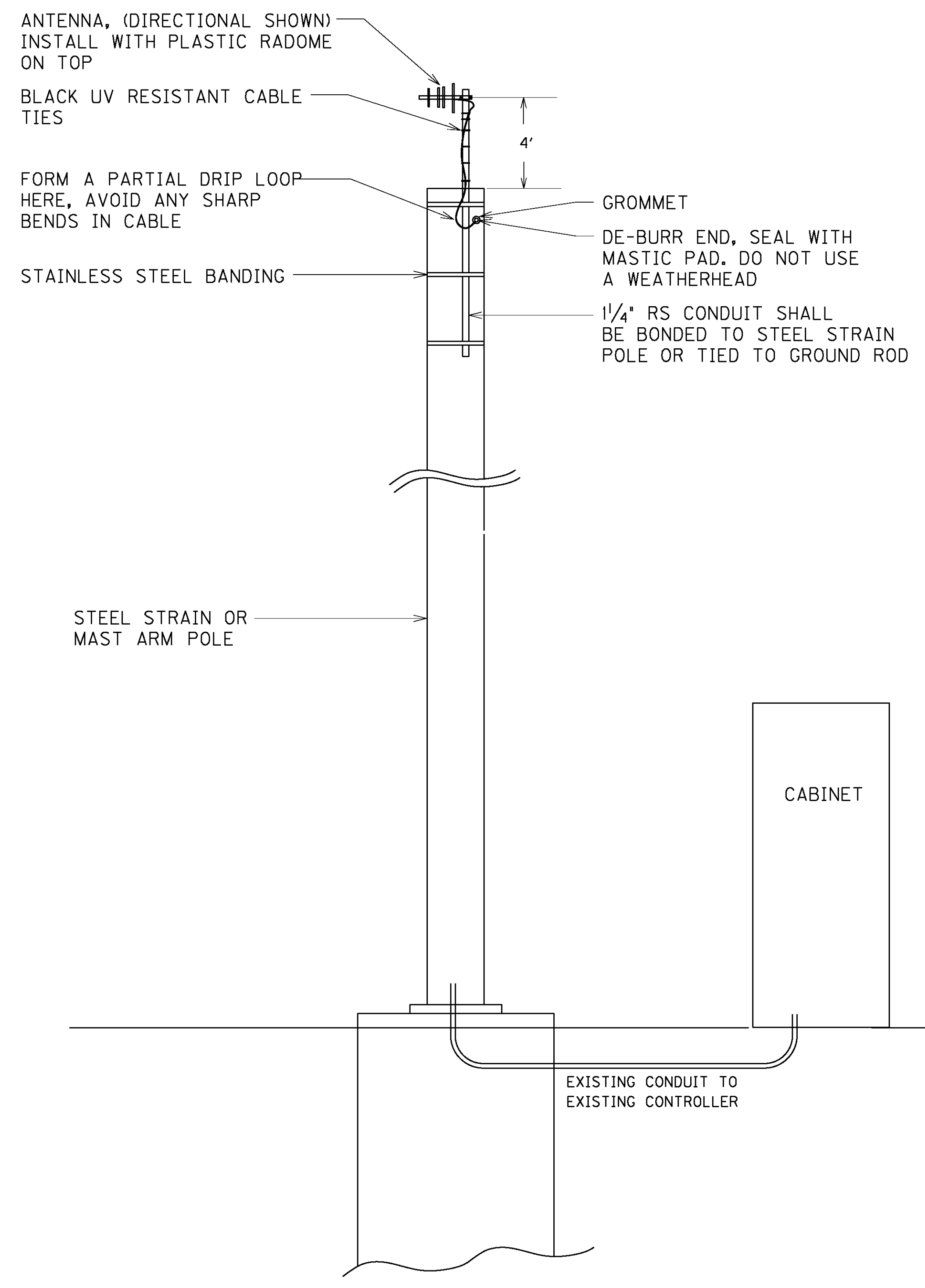
SPLICE BOX

SPLICE BOX SHALL BE FABRICATED FROM MINIMUM 12 GAUGE STEEL AND GALVANIZED AFTER FABRICATION. BOXES SHALL HAVE NO KNOCKOUTS AND SHALL BE PROVIDED WITH A PLATE COVER WITH A WEATHER RESISTANT GASKET AND A MINIMUM OF FOUR SCREWS FOR ATTACHING THE PLATE COVER TO THE BOX. CABLE CLAMPS SHALL BE PROVIDED FOR CABLES ENTERING AND EXITING THE BOX.

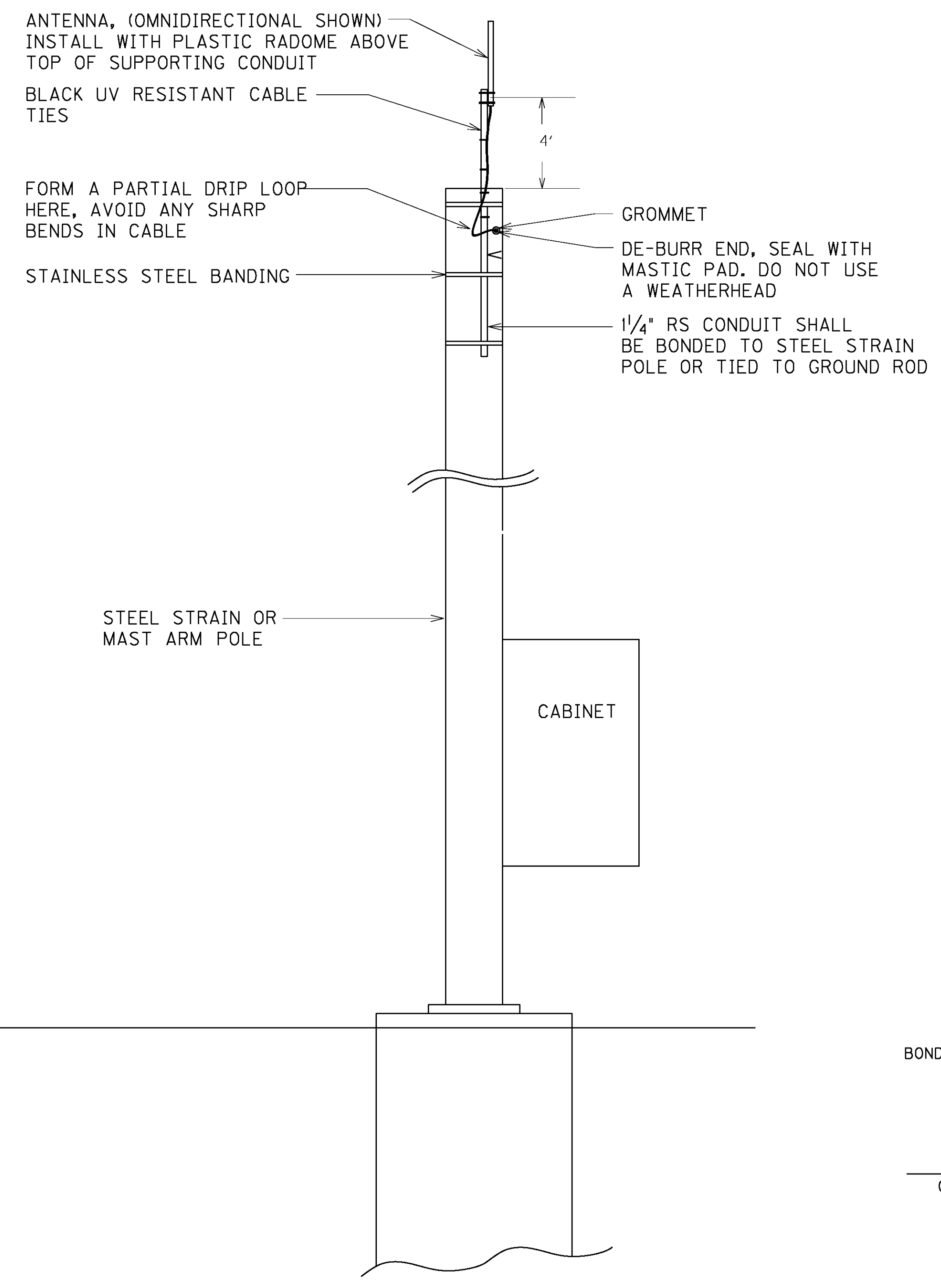
FILE NAME: G:\USERS\CHARLES.WEITZEL\DESKTOP\DI LYON ESHEETS SIGNAL ESHEETS\T02100J.B.DGN  
 USER: charles.weitzel  
 DATE PLOTTED: September 9, 2013  
 E-SHEET NAME: T02100J.B  
 MicroStation v8.11.7.443



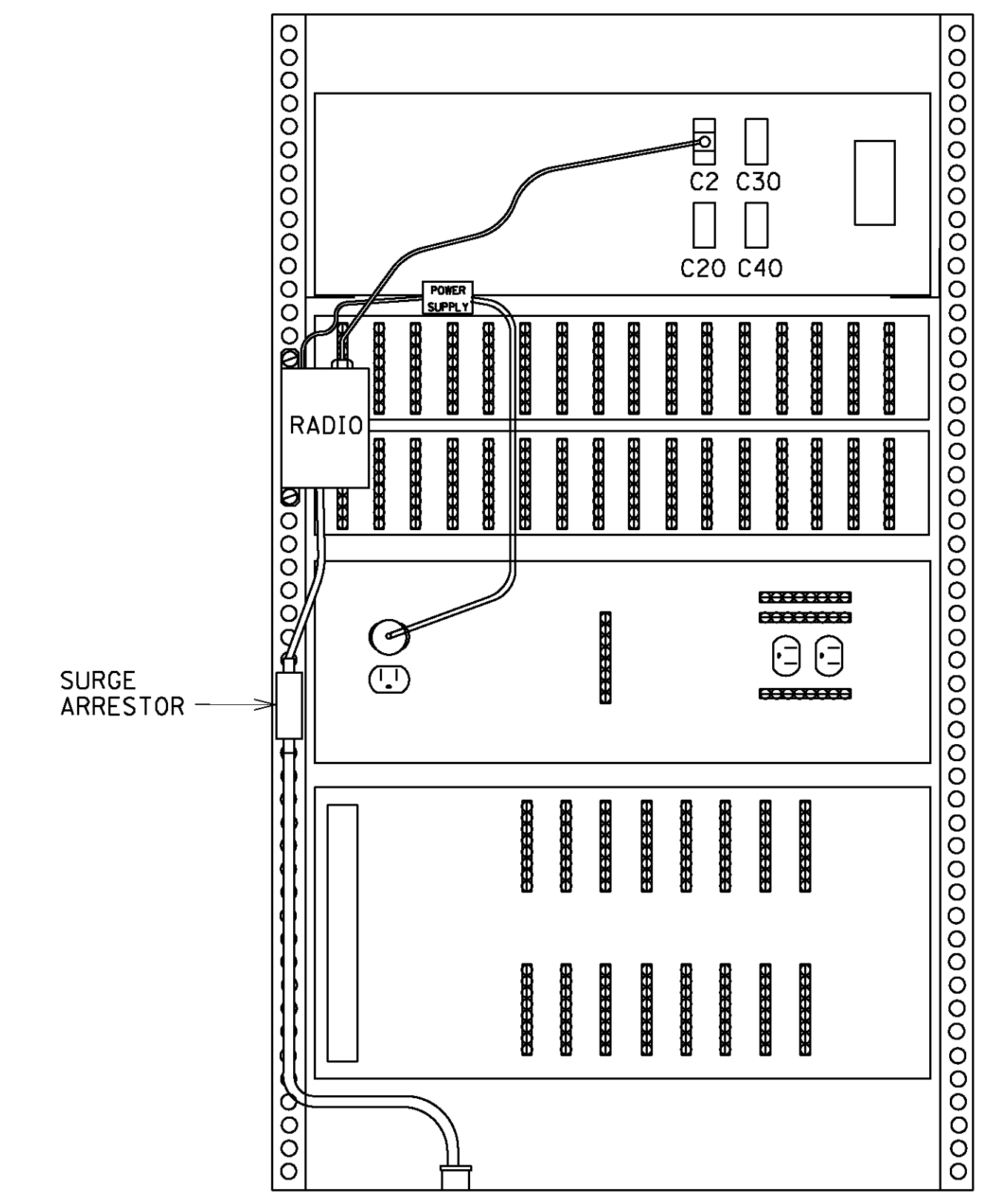
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 USER: charles.weitzel  
 DATE PLOTTED: September 9, 2013  
 E-SHEET NAME: T02200RA  
 MicroStation v8.11.7.443



TYPICAL ANTENNA INSTALLATION FOR STEEL AND MAST ARM POLES WITH BASE MOUNT CONTROLLER CABINET

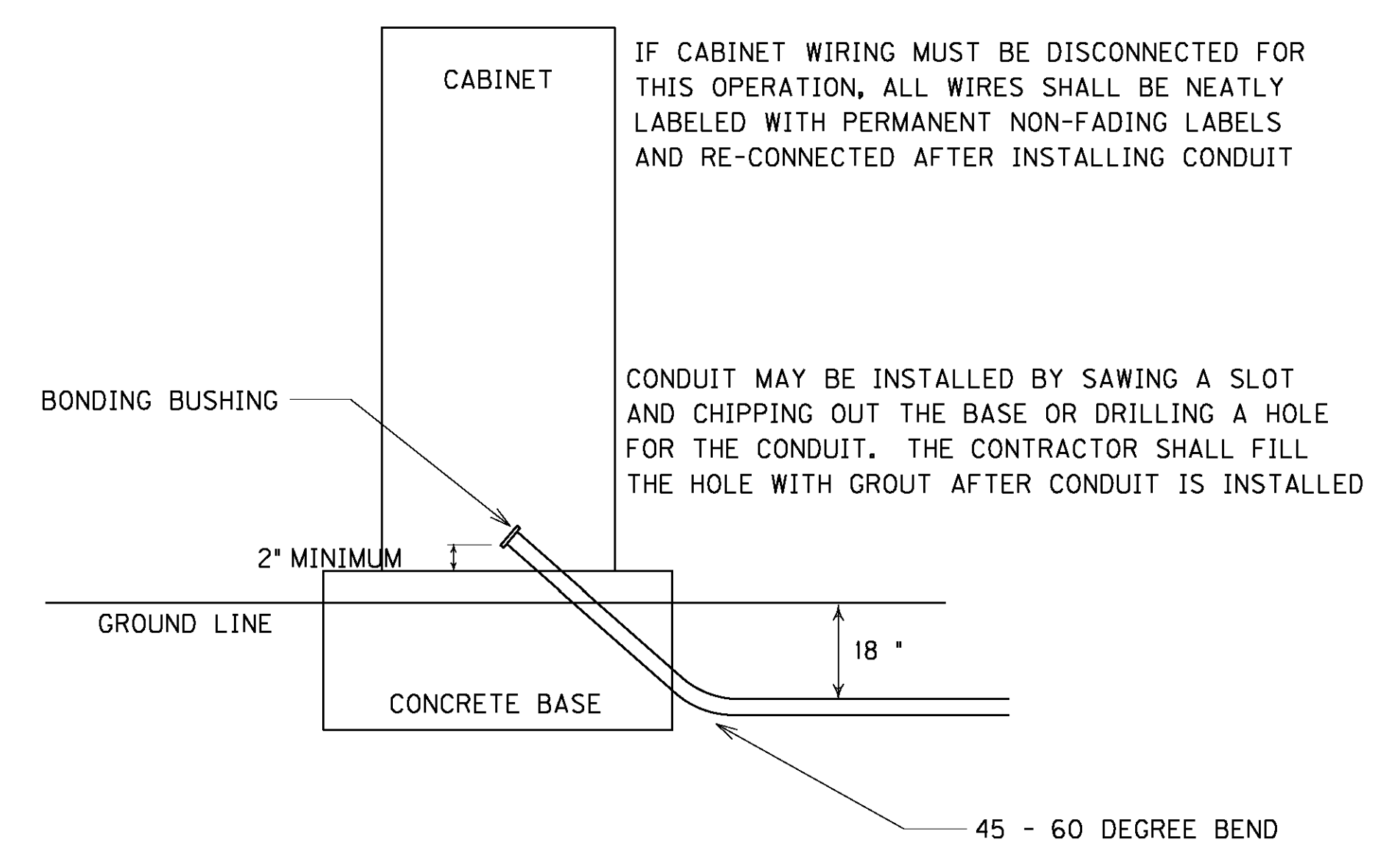


TYPICAL ANTENNA INSTALLATION FOR STEEL AND MAST ARM POLES WITH POLE MOUNT CONTROLLER CABINET



RADIO INSTALLATION (REAR OF CABINET)

Surge protector shall be mounted to cabinet. There shall be no sharp bends in the coaxial cable.



ADDING NEW CONDUIT TO EXISTING BASE

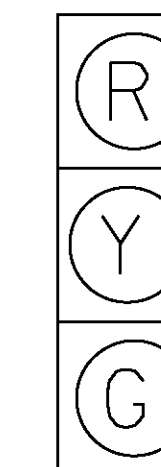
### WIRING SCHEDULE

CABLE	ORIGIN	ENDING	CONNECTING
2-#14/1 PAIR	CONTROLLER	JB 2	LOOP 1
2-#14/1 PAIR	CONTROLLER	JB 7	LOOPS 2A & 2B
2-#14/1 PAIR	CONTROLLER	JB 8	LOOPS 2C & 2D
2-#14/1 PAIR	CONTROLLER	JB 5	LOOP 4
2-#14/1 PAIR	CONTROLLER	JB 6	LOOP 5
2-#14/1 PAIR	CONTROLLER	JB 3	LOOPS 6A & 6B
2-#14/1 PAIR	CONTROLLER	JB 4	LOOPS 6C & 6D
2-#14/1 PAIR	CONTROLLER	JB 1	LOOPS 8A & 8B
1-#14/5C	CONTROLLER	SH 2A	SH 2A & 2B
1-#14/5C	CONTROLLER	SH 4A	SH 4A & 4B
1-#14/5C	CONTROLLER	TEMP SH6B	TEMP SH 6B & 6A
1-#14/5C	CONTROLLER	SH 6B	SH 6B & SH 6A
1-#14/5C	CONTROLLER	TEMP SH 4A	TEMP SH 4A & 4B
1-#14/5C	CONTROLLER	SH 8A	SH 8A

### STEEL STRAIN POLES

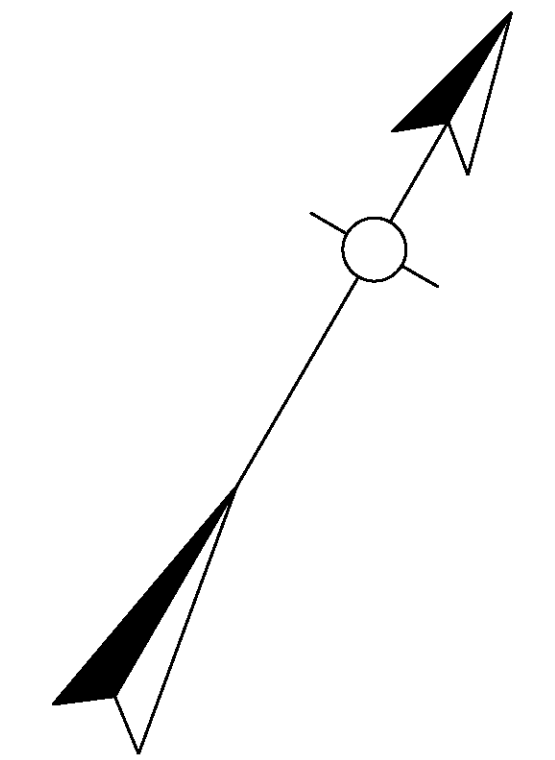
POLE	HEIGHT	SPAN	ATT. HT.	CALC. SERV. MOMENT	SAG
A	34'	A-B	32'	162 KP/FT	5%
B	34'	B-A	30'	184 KP/FT	5%
		B-C	31'		
C	34'	C-B	29'	106 KP/FT	5%
		C-D	32'		
D	34'	D-A	30'	109 KP/FT	5%
		D-C	32'		

### SIGNAL HEADS



ALL HEADS

ALL INDICATIONS L.E.D.

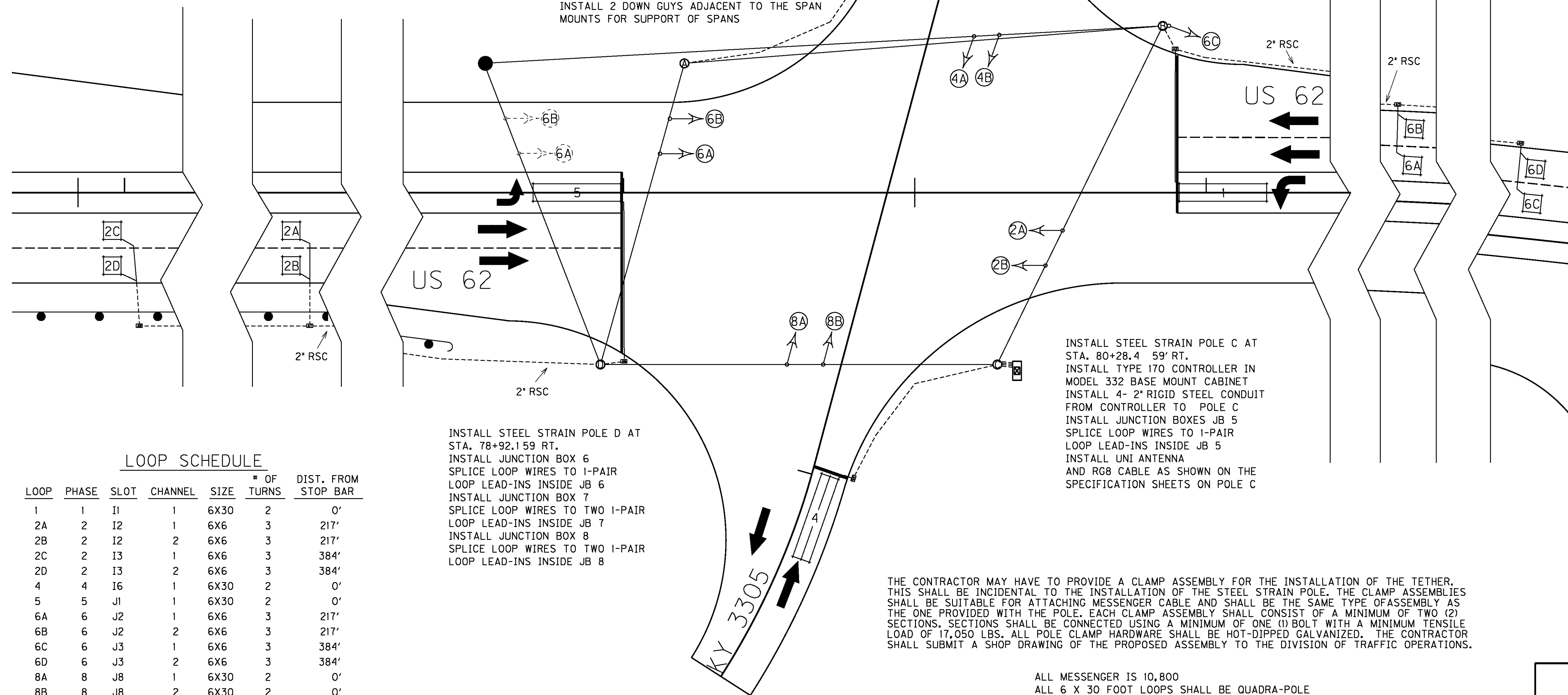


FILE NAME: C:\USERS\CHARLES.WEITZEL\DESKTOP\DI LYON SIGNAL ESHEETS.DGN

USER: charles.weitzel  
DATE PLOTTED: June 5, 2009

E-SHEET NAME: T02300SP

MicroStation v8.11.7.443



INSTALL STEEL STRAIN POLE A AT STA. 79+21.44, 36 LT.  
INSTALL JUNCTION BOX 1  
SPlice LOOP WIRES TO TWO 1-PAIR LOOP LEAD-INS INSIDE JB 1  
INSTALL TEMPORARY WOOD POLE AT STA. 78+52.6 44,36 LT  
ATTACH TEMPORARY SPANS TO WOOD POLE  
INSTALL 2 DOWN GUYS ADJACENT TO THE SPAN MOUNTS FOR SUPPORT OF SPANS

INSTALL STEEL STRAIN POLE B AT STA. 80+85.0 57.2 LT.  
INSTALL JUNCTION BOX 2  
SPlice LOOP WIRES TO 1-PAIR LOOP LEAD-INS INSIDE JB 2  
INSTALL JUNCTION BOX 3  
SPlice LOOP WIRES TO 2-1-PAIR LOOP LEAD-INS INSIDE JB 3  
INSTALL JUNCTION BOX 4  
SPlice LOOP WIRES TO 2-1-PAIR LOOP LEAD-INS INSIDE JB 4

INSTALL STEEL STRAIN POLE C AT STA. 80+28.4 59' RT.  
INSTALL TYPE 170 CONTROLLER IN MODEL 332 BASE MOUNT CABINET  
INSTALL 4- 2" RIGID STEEL CONDUIT FROM CONTROLLER TO POLE C  
INSTALL JUNCTION BOXES JB 5  
SPlice LOOP WIRES TO 1-PAIR LOOP LEAD-INS INSIDE JB 5  
INSTALL UNI ANTENNA AND R88 CABLE AS SHOWN ON THE SPECIFICATION SHEETS ON POLE C

INSTALL STEEL STRAIN POLE D AT STA. 78+92.159 RT.  
INSTALL JUNCTION BOX 6  
SPlice LOOP WIRES TO 1-PAIR LOOP LEAD-INS INSIDE JB 6  
INSTALL JUNCTION BOX 7  
SPlice LOOP WIRES TO TWO 1-PAIR LOOP LEAD-INS INSIDE JB 7  
INSTALL JUNCTION BOX 8  
SPlice LOOP WIRES TO TWO 1-PAIR LOOP LEAD-INS INSIDE JB 8

THE CONTRACTOR MAY HAVE TO PROVIDE A CLAMP ASSEMBLY FOR THE INSTALLATION OF THE TETHER. THIS SHALL BE INCIDENTAL TO THE INSTALLATION OF THE STEEL STRAIN POLE. THE CLAMP ASSEMBLIES SHALL BE SUITABLE FOR ATTACHING MESSENGER CABLE AND SHALL BE THE SAME TYPE OF ASSEMBLY AS THE ONE PROVIDED WITH THE POLE. EACH CLAMP ASSEMBLY SHALL CONSIST OF A MINIMUM OF TWO (2) SECTIONS. SECTIONS SHALL BE CONNECTED USING A MINIMUM OF ONE (1) BOLT WITH A MINIMUM TENSILE LOAD OF 17,050 LBS. ALL POLE CLAMP HARDWARE SHALL BE HOT-DIPPED GALVANIZED. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PROPOSED ASSEMBLY TO THE DIVISION OF TRAFFIC OPERATIONS.

ALL MESSENGER IS 10,800  
ALL 6 X 30 FOOT LOOPS SHALL BE QUADRA-POLE

### LOOP SCHEDULE

LOOP	PHASE	SLOT	CHANNEL	SIZE	# OF TURNS	DIST. FROM STOP BAR
1	1	I1	1	6X30	2	0'
2A	2	I2	1	6X6	3	217'
2B	2	I2	2	6X6	3	217'
2C	2	I3	1	6X6	3	384'
2D	2	I3	2	6X6	3	384'
4	4	I6	1	6X30	2	0'
5	5	J1	1	6X30	2	0'
6A	6	J2	1	6X6	3	217'
6B	6	J2	2	6X6	3	217'
6C	6	J3	1	6X6	3	384'
6D	6	J3	2	6X6	3	384'
8A	8	J8	1	6X30	2	0'
8B	8	J8	2	6X30	2	0'

SCALE 1" = 20'

### LEGEND

- BASE MOUNTED CONTROLLER
- STEEL STRAIN POLE
- TEMPORARY WOOD POLE
- JUNCTION BOXES TYPES B
- SIGNAL HEAD
- TEMPORARY SIGNAL HEAD
- LOOP DETECTOR
- 1/4" RIGID STEEL CONDUIT (UNLESS OTHERWISE NOTED)

US 62 @ US 641 SIGNAL



Note: No work can take place on Parcel Number 077 Paducah & Louisville Railroad crossing for a Minimum of 6 months or notification that the parcel has been acquired and cleared for construction.

Jeff Wolfe - Director  
 Phone (502) 564-3020  
 FAX (502) 564-7759

**RECOMMENDATION FOR PICKUP OF ITEMS TO BE INSTALLED  
 ON TRAFFIC SIGNALS/LIGHTING**

Item Number: 1-307.01

County: LYON

Description: US 62 @ US 641

Cabinets	Master code	Description of Item
1	T-01-0020	Base Mounted 332 Cabinet
1	T-01-0100	170 Controller
8	T-01-0600	Loop Detector, Model 222
4	T-01-0700	Load Switches

Signals		
13	T-02-0009	Siemens 3 Section Signal
13	T-02-0330	LED Module 12" red ball
13	T-02-0340	LED Module 12" yellow ball
13	T-02-0350	LED Module 12" green ball

Special items		
1	T-02-0520	Antenna 10 db yagi
1	T-03-0240	Jumper 60' N-N RG-213

Poles		
4	T-04-0040	Steel Strain Pole 34 foot

Electrical Contractor Name \_\_\_\_\_  
 Electrical Contractor Supervisor \_\_\_\_\_ Contact number for Supervisor \_\_\_\_\_  
 Project Engineer \_\_\_\_\_ Contact number for Project Engineer \_\_\_\_\_  
 Project Engineer attests that the mentioned contractor is the actual electrical contractor on this project  
 Signature of Project Engineer or Designee \_\_\_\_\_



**PROPOSAL BID ITEMS**

Report Date 9/16/13

**Section: 0001 - PAVING**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0010	00001		DGA BASE	62,931.00	TON		\$	
0020	00018		DRAINAGE BLANKET-TYPE II-ASPH	18,861.00	TON		\$	
0030	00100		ASPHALT SEAL AGGREGATE	360.00	TON		\$	
0040	00103		ASPHALT SEAL COAT	44.00	TON		\$	
0050	00190		LEVELING & WEDGING PG64-22	570.00	TON		\$	
0060	00212		CL2 ASPH BASE 1.00D PG64-22	6,945.00	TON		\$	
0070	00214		CL3 ASPH BASE 1.00D PG64-22	47,130.00	TON		\$	
0080	00309		CL2 ASPH SURF 0.50D PG64-22	3,155.00	TON		\$	
0090	00324		CL3 ASPH SURF 0.50B PG64-22	9,160.00	TON		\$	
0100	02081		JPC PAVEMENT-8 IN SHLD	84.00	SQYD		\$	
0110	02223		GRANULAR EMBANKMENT	350.00	CUYD		\$	

**Section: 0002 - ROADWAY**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0120	00078		CRUSHED AGGREGATE SIZE NO 2	53.00	TON		\$	
0130	01310		REMOVE PIPE	42.00	LF		\$	
0140	01791		ADJUST MANHOLE FRAME TO GRADE	2.00	EACH		\$	
0150	01845		ISLAND INTEGRAL CURB	50.00	LF		\$	
0160	01986		DELINEATOR FOR BARRIER WALL-B/Y	6.00	EACH		\$	
0170	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	48.00	EACH		\$	
0180	02014		BARRICADE-TYPE III	50.00	EACH		\$	
0190	02091		REMOVE PAVEMENT	2,380.00	SQYD		\$	
0200	02200		ROADWAY EXCAVATION	160,945.00	CUYD		\$	
0210	02242		WATER	15.00	MGAL		\$	
0220	02262		FENCE-WOVEN WIRE TYPE 1	968.00	LF		\$	
0230	02265		REMOVE FENCE	966.00	LF		\$	
0240	02351		GUARDRAIL-STEEL W BEAM-S FACE	4,737.50	LF		\$	
0250	02360		GUARDRAIL TERMINAL SECTION NO 1	9.00	EACH		\$	
0260	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	4.00	EACH		\$	
0270	02367		GUARDRAIL END TREATMENT TYPE 1	8.00	EACH		\$	
0280	02381		REMOVE GUARDRAIL	6,334.00	LF		\$	
0290	02391		GUARDRAIL END TREATMENT TYPE 4A	6.00	EACH		\$	
0300	02404		SEPTIC TANK TREATMENT	2.00	EACH		\$	
0310	02429		RIGHT-OF-WAY MONUMENT TYPE 1	206.00	EACH		\$	
0320	02432		WITNESS POST	3.00	EACH		\$	
0330	02483		CHANNEL LINING CLASS II	9,194.00	TON		\$	
0340	02484		CHANNEL LINING CLASS III	2,088.00	TON		\$	
0350	02545		CLEARING AND GRUBBING APPROXIMATELY 93 ACRES.	1.00	LS		\$	
0360	02585		EDGE KEY	410.00	LF		\$	
0370	02598		FABRIC-GEOTEXTILE TYPE III	520.00	SQYD		\$	
0380	02599		FABRIC-GEOTEXTILE TYPE IV	5,500.00	SQYD		\$	
0390	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0400	02653		LANE CLOSURE	2.00	EACH		\$	

**PROPOSAL BID ITEMS**

Report Date 9/16/13

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0410	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0420	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0430	02677		ASPHALT PAVE MILLING & TEXTURING	2,780.00	TON		\$	
0440	02690		SAFELoADING	24.00	CUYD		\$	
0450	02696		SHOULDER RUMBLE STRIPS-SAWED	31,000.00	LF		\$	
0460	02701		TEMP SILT FENCE	270.00	LF		\$	
0470	02704		SILT TRAP TYPE B	27.00	EACH		\$	
0480	02705		SILT TRAP TYPE C	168.00	EACH		\$	
0490	02707		CLEAN SILT TRAP TYPE B	27.00	EACH		\$	
0500	02708		CLEAN SILT TRAP TYPE C	168.00	EACH		\$	
0510	02709		CLEAN TEMP SILT FENCE	270.00	LF		\$	
0520	02726		STAKING	1.00	LS		\$	
0530	02731		REMOVE STRUCTURE	1.00	LS		\$	
0540	02775		ARROW PANEL	2.00	EACH		\$	
0550	03171		CONCRETE BARRIER WALL TYPE 9T	520.00	LF		\$	
0560	04953		TEMP RELOCATION OF SIGNAL HEAD	4.00	EACH		\$	
0570	05950		EROSION CONTROL BLANKET	34,688.00	SQYD		\$	
0580	05952		TEMP MULCH	642.00	SQYD		\$	
0590	05953		TEMP SEEDING AND PROTECTION	642.00	SQYD		\$	
0600	05966		TOPDRESSING FERTILIZER	3.00	TON		\$	
0610	05985		SEEDING AND PROTECTION	130,286.00	SQYD		\$	
0620	05989		SPECIAL SEEDING CROWN VETCH	17,947.00	SQYD		\$	
0630	05990		SODDING	9,000.00	SQYD		\$	
0640	06510		PAVE STRIPING-TEMP PAINT-4 IN	85,572.00	LF		\$	
0650	06514		PAVE STRIPING-PERM PAINT-4 INYELLOW	39,532.00	LF		\$	
0660	06514		PAVE STRIPING-PERM PAINT-4 INWHITE	48,963.00	LF		\$	
0670	06517		PAVE STRIPING-PERM PAINT-12 IN	502.00	LF		\$	
0680	06550		PAVE STRIPING-TEMP REM TAPE-W	3,925.00	LF		\$	
0690	06551		PAVE STRIPING-TEMP REM TAPE-Y	6,860.00	LF		\$	
0700	06568		PAVE MARKING-THERMO STOP BAR-24IN	329.00	LF		\$	
0710	06569		PAVE MARKING-THERMO CROSS-HATCH	16,708.00	SQFT		\$	
0720	06570		PAVE MARKING-PAINT CROSS-HATCH	2,071.00	SQFT		\$	
0730	06574		PAVE MARKING-THERMO CURV ARROW	30.00	EACH		\$	
0740	06575		PAVE MARKING-THERMO COMB ARROW	1.00	EACH		\$	
0750	06576		PAVE MARKING-THERMO ONLY	4.00	EACH		\$	
0760	06586		PAVEMENT MARKER TY IVA-MY TEMP	18.00	EACH		\$	
0770	06588		PAVEMENT MARKER TY IVA-BY TEMP	277.00	EACH		\$	
0780	06589		PAVEMENT MARKER TYPE V-MW	353.00	EACH		\$	
0790	06591		PAVEMENT MARKER TYPE V-BY	655.00	EACH		\$	
0800	08100		CONCRETE-CLASS A	95.00	CUYD		\$	
0810	08150		STEEL REINFORCEMENT	3,678.00	LB		\$	
0820	08903		CRASH CUSHION TY VI CLASS BT TL3	2.00	EACH		\$	
0830	10020NS		FUEL ADJUSTMENT	173,472.00	DOLL	\$1.00	\$	\$173,472.00
0840	10030NS		ASPHALT ADJUSTMENT	251,856.00	DOLL	\$1.00	\$	\$251,856.00
0850	23131ER701		PIPELINE VIDEO INSPECTION	3,678.00	LF		\$	

**Section: 0003 - DRAINAGE**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
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**PROPOSAL BID ITEMS**

Report Date 9/16/13

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
0860	00440		ENTRANCE PIPE-15 IN	2,077.00	LF		\$	
0870	00441		ENTRANCE PIPE-18 IN	859.00	LF		\$	
0880	00445		ENTRANCE PIPE-30 IN15" CMP 16 GAGE	59.00	LF		\$	
0890	00461		CULVERT PIPE-15 IN	64.00	LF		\$	
0900	00462		CULVERT PIPE-18 IN	1,444.00	LF		\$	
0910	00464		CULVERT PIPE-24 IN	464.00	LF		\$	
0920	00468		CULVERT PIPE-36 IN	208.00	LF		\$	
0930	01000		PERFORATED PIPE-4 IN	13,338.00	LF		\$	
0940	01001		PERFORATED PIPE-6 IN	13,850.00	LF		\$	
0950	01002		PERFORATED PIPE-8 IN	74.00	LF		\$	
0960	01010		NON-PERFORATED PIPE-4 IN	977.00	LF		\$	
0970	01011		NON-PERFORATED PIPE-6 IN	860.00	LF		\$	
0980	01012		NON-PERFORATED PIPE-8 IN	10.00	LF		\$	
0990	01015		INSPECT & CERTIFY EDGE DRAIN SYSTEM	1.00	LS		\$	
1000	01020		PERF PIPE HEADWALL TY 1-4 IN	2.00	EACH		\$	
1010	01025		PERF PIPE HEADWALL TY 2-6 IN	9.00	EACH		\$	
1020	01028		PERF PIPE HEADWALL TY 3-4 IN	23.00	EACH		\$	
1030	01029		PERF PIPE HEADWALL TY 3-6 IN	1.00	EACH		\$	
1040	01030		PERF PIPE HEADWALL TY 3-8 IN	5.00	EACH		\$	
1050	01032		PERF PIPE HEADWALL TY 4-4 IN	12.00	EACH		\$	
1060	01033		PERF PIPE HEADWALL TY 4-6 IN	1.00	EACH		\$	
1070	01212		PIPE CULVERT HEADWALL-36 IN	2.00	EACH		\$	
1080	01370		METAL END SECTION TY 1-15 IN	26.00	EACH		\$	
1090	01371		METAL END SECTION TY 1-18 IN	4.00	EACH		\$	
1100	01391		METAL END SECTION TY 3-18 IN	15.00	EACH		\$	
1110	01393		METAL END SECTION TY 3-24 IN	1.00	EACH		\$	
1120	01411		METAL END SECTION TY 4-18 IN	3.00	EACH		\$	
1130	01413		METAL END SECTION TY 4-24 IN	3.00	EACH		\$	
1140	01480		CURB BOX INLET TYPE B	2.00	EACH		\$	
1150	01490		DROP BOX INLET TYPE 1	5.00	EACH		\$	
1160	01642		JUNCTION BOX-18 IN	1.00	EACH		\$	

**Section: 0004 - BRIDGE**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
1170	02231		STRUCTURE GRANULAR BACKFILL	595.00	CUYD		\$	
1180	02403		REMOVE CONCRETE MASONRY	11.90	CUYD		\$	
1190	02998		MASONRY COATING	825.00	SQYD		\$	
1200	03299		ARMORED EDGE FOR CONCRETE	308.80	LF		\$	
1210	08001		STRUCTURE EXCAVATION-COMMON	3,965.20	CUYD		\$	
1220	08002		STRUCTURE EXCAV-SOLID ROCK	108.00	CUYD		\$	
1230	08003		FOUNDATION PREPARATIONCULVERT 27022	1.00	LS		\$	
1240	08019		CYCLOPEAN STONE RIP RAP	1,531.00	TON		\$	
1250	08033		TEST PILES	92.00	LF		\$	
1260	08046		PILES-STEEL HP12X53	1,248.00	LF		\$	
1270	08094		PILE POINTS-12 IN	42.00	EACH		\$	
1280	08100		CONCRETE-CLASS A	692.80	CUYD		\$	
1290	08104		CONCRETE-CLASS AA	784.70	CUYD		\$	

**PROPOSAL BID ITEMS**

Report Date 9/16/13

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
1300	08150		STEEL REINFORCEMENT	69,415.00	LB		\$	
1310	08151		STEEL REINFORCEMENT-EPOXY COATED	225,321.00	LB		\$	
1320	08500		APPROACH SLAB	455.60	SQYD		\$	
1330	08713		BRIDGE CHAIN LINK FENCE-9 FT	216.00	LF		\$	
1340	21532ED		RAIL SYSTEM TYPE III	500.00	LF		\$	
1350	23981EC		PPC I-BEAM TYPE HN42-49	2,174.00	LF		\$	

**Section: 0005 - UTILITY**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
1360	00003		CRUSHED STONE BASECOMPACTED SELECT FILL	1,920.00	TON		\$	
1370	01069		STEEL ENCASEMENT PIPE-12 INBORE & JACK	840.00	LF		\$	
1380	01069		STEEL ENCASEMENT PIPE-12 INOPEN CUT	190.00	LF		\$	
1390	01073		STEEL ENCASEMENT PIPE-16 IN	170.00	LF		\$	
1400	01076		STEEL ENCASEMENT PIPE-20 IN	100.00	LF		\$	
1410	02220		FLOWABLE FILL	100.00	CUYD		\$	
1420	02483		CHANNEL LINING CLASS II	30.00	TON		\$	
1430	02555		CONCRETE-CLASS B	103.00	CUYD		\$	
1440	03360		COPPER PIPE-3/4 IN	265.00	LF		\$	
1450	03361		COPPER PIPE-1 INBORE	875.00	LF		\$	
1460	03361		COPPER PIPE-1 INTRENCH	120.00	LF		\$	
1470	03363		COPPER PIPE-2 IN	30.00	LF		\$	
1480	03383		PVC PIPE-4 IN	100.00	LF		\$	
1490	03391		PVC PIPE-12 IN	330.00	LF		\$	
1500	03423		REMOVE METER	11.00	EACH		\$	
1510	03434		REMOVE FIRE HYDRANT	5.00	EACH		\$	
1520	03438		RECONNECT TO MAIN	1.00	EACH		\$	
1530	03538		BEND 11.25 DEG 6 IN	4.00	EACH		\$	
1540	03541		BEND 11.25 DEG 12 IN	1.00	EACH		\$	
1550	03543		BEND 11.25 DEG 16 IN	1.00	EACH		\$	
1560	03545		BEND 22.50 DEG 6 IN	10.00	EACH		\$	
1570	03547		BEND 22.50 DEG 10 IN	2.00	EACH		\$	
1580	03554		BEND 45 DEG 6 IN	39.00	EACH		\$	
1590	03555		BEND 45 DEG 10 IN	11.00	EACH		\$	
1600	03556		BEND 45 DEG 12 IN	2.00	EACH		\$	
1610	03558		BEND 45 DEG 16 IN	4.00	EACH		\$	
1620	03560		BEND 90 DEG 6 IN	2.00	EACH		\$	
1630	05985		SEEDING AND PROTECTION	19,615.00	SQYD		\$	
1640	08100		CONCRETE-CLASS A	20.00	CUYD		\$	
1650	20056NN		REDUCER16 INCH X 12 INCH	2.00	EACH		\$	
1660	20120EC		SOLID SLEEVE-6 IN	15.00	EACH		\$	
1670	20127EC		SOLID SLEEVE-12 IN	3.00	EACH		\$	
1680	20156EC		FIRE HYDRANT ASSEMBLY	13.00	EACH		\$	
1690	20425ED		ABANDON MANHOLE	1.00	EACH		\$	
1700	20821ND		TEE 12 IN X 12 IN	1.00	EACH		\$	
1710	20822ED		TEE 12 IN X 6 IN	1.00	EACH		\$	
1720	20951ND		TAPPING SLEEVE AND VALVE-6IN X 6 IN	15.00	EACH		\$	

**PROPOSAL BID ITEMS**

Report Date 9/16/13

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
1730	20955ND		TEE-10 IN X 6 IN	1.00	EACH		\$	
1740	20961ND		PLUG-6 IN	1.00	EACH		\$	
1750	20966ND		THRUST RESTRAINT GLAND-8 IN	8.00	EACH		\$	
1760	20967ND		THRUST RESTRAINT GLAND-6 IN	241.00	EACH		\$	
1770	20981ND		PRECAST MANHOLE-4 FT	3.00	EACH		\$	
1780	21099ND		CAP 12 IN	4.00	EACH		\$	
1790	21179ND		TAPPING SLEEVE & VALVE 12 X 12W/CUT & CAP (HOT CAP)	3.00	EACH		\$	
1800	21251ED		RAISE MANHOLE TO GRADE	1.00	VTFT		\$	
1810	21346ND		WATER SERVICE RECONNECT-3/4 IN-1 IN	15.00	EACH		\$	
1820	21353ND		TIE-IN TO FORCE MAIN	2.00	EACH		\$	
1830	21354ND		CUT CAP AND BLOCK FORCE MAIN8-INCH FORCE MAIN	1.00	EACH		\$	
1840	21354ND		CUT CAP AND BLOCK FORCE MAIN6-INCH FORCE MAIN	1.00	EACH		\$	
1850	21788ED		OPEN CUT W/ STEEL ENCASMENT26 INCH	90.00	LF		\$	
1860	22788NN		AIR RELEASE VALVE W/MANHOLE CHAMBER	5.00	EACH		\$	
1870	22984EN		PVC FORCE MAIN-6 INHDD	430.00	LF		\$	
1880	22984EN		PVC FORCE MAIN-6 INTRENCH	250.00	LF		\$	
1890	23125EN		BORE AND JACK PIPE-20 IN	160.00	LF		\$	
1900	23126EN		BORE AND JACK PIPE-18 IN	145.00	LF		\$	
1910	23308EC		WATER METER WITH BOX5/8" X 3/4" METER SETTING	12.00	EACH		\$	
1920	23308EC		WATER METER WITH BOX2-INCH METER SETTING	1.00	EACH		\$	
1930	23308EC		WATER METER WITH BOX5/8" X 1" METER SETTING	1.00	EACH		\$	
1940	23311EC		SOLID SLEEVE-10 IN	3.00	EACH		\$	
1950	23358EC		TEE-6 IN X 6 IN	4.00	EACH		\$	
1960	23705EC		CUT-CAP AND BLOCK-6 IN	15.00	EACH		\$	
1970	23708EC		CUT-CAP AND BLOCK-10 IN	2.00	EACH		\$	
1980	23720EC		RESTRAINED JOINT PVC FORCE MAIN-6 INWATERMAIN (W/IN ENCASMENT)	980.00	LF		\$	
1990	23722EC		TAPPING SLEEVE AND VALVE-10 X 10 INW/ CUT & CAP (HOT CAP)	3.00	EACH		\$	
2000	23735EC		REDUCER-12 X 10 IN	1.00	EACH		\$	
2010	24060EC		FORCE MAIN BEND-8 IN22.5 MJ FITTING	1.00	EACH		\$	
2020	24060EC		FORCE MAIN BEND-8 IN45 MJ FITTING	3.00	EACH		\$	
2030	24240ED		OPEN CUT W/ STEEL ENCASMENT-18 IN	85.00	LF		\$	
2040	24241EN		PVC FORCE MAIN-8 INWITHIN ENCASMENT	190.00	LF		\$	
2050	24241EN		PVC FORCE MAIN-8 INHDD	430.00	LF		\$	
2060	24241EN		PVC FORCE MAIN-8 INTRENCH	250.00	LF		\$	
2070	24260EC		DIP 6 IN-RESTRAINED IN 12 IN STEEL ENCASMENTCL 350 PIPE (W/IN ENCASMENT) W/PETROLEUM RESISTENT GASKETS	160.00	LF		\$	
2080	24260EC		DIP 6 IN-RESTRAINED IN 12 IN STEEL ENCASMENTCL 350 PIPE (TRENCH) W/ PETROLEUM RESISTENT GASKETS	465.00	LF		\$	
2090	24446EC		ASPHALT PAVING	48.00	TON		\$	
2100	24556ED		VALVE & METER BOX12 INCH GATE	2.00	EACH		\$	
2110	24556ED		VALVE & METER BOX6 INCH GATE	18.00	EACH		\$	



**PROPOSAL BID ITEMS**

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
2120	24556ED		VALVE & METER BOX2 INCH BALL	1.00	EACH		\$	
2130	24556ED		VALVE & METER BOX16 INCH GATE	1.00	EACH		\$	
2140	24556ED		VALVE & METER BOX10 INCH GATE	2.00	EACH		\$	
2150	24564EN		PVC PIPE6 INCH SDR 21 WATERMAIN (TRENCH)	7,570.00	LF		\$	
2160	24564EN		PVC PIPE16 INCH SDR 21 WATERMAIN (TRENCH)	600.00	LF		\$	
2170	24564EN		PVC PIPE12 INCH SDR 21 WATERMAIN (TRENCH)	380.00	LF		\$	
2180	24564EN		PVC PIPE10 INCH SDR 21 FUSIBLE (HDD)	575.00	LF		\$	
2190	24564EN		PVC PIPE10 INCH SDR 21 WATERMAIN (TRENCH)	1,920.00	LF		\$	
2200	24564EN		PVC PIPE16 INCH SDR RESTRAINED JOINT WATERMAIN (W/IN ENCASEMENT)	110.00	LF		\$	
2210	24564EN		PVC PIPE12 INCH SDR RESTRAINED JOINT WATERMAIN (W/IN ENCASEMENT)	350.00	LF		\$	
2220	24564EN		PVC PIPE10 INCH RESTRAINED JOINT WATERMAIN (W/IN ENCASEMENT)	300.00	LF		\$	
2230	24571EC		GASKET6 INCH FIELD LOK	10.00	EACH		\$	
2240	24598EC		THRUST RESTRAINT GLAND10 INCH	49.00	EACH		\$	
2250	24598EC		THRUST RESTRAINT GLAND16 INCH	16.00	EACH		\$	
2260	24598EC		THRUST RESTRAINT GLAND12 INCH	32.00	EACH		\$	

**Section: 0006 - SIGNING**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
2270	02562		TEMPORARY SIGNS	2,240.00	SQFT		\$	
2280	06406		SBM ALUM SHEET SIGNS .080 IN	557.00	SQFT		\$	
2290	06411		STEEL POST TYPE 2	1,016.00	LF		\$	
2300	06412		STEEL POST MILE MARKERS	6.00	EACH		\$	
2310	24584EC		BARCODE SIGN INVENTORY	126.00	EACH		\$	

**Section: 0007 - SIGNALIZATION**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
2320	04792		CONDUIT-1 IN ADDED: 9-16-13	25.00	LF		\$	
2330	04793		CONDUIT-1 1/4 IN ADDED: 9-16-13	545.00	LF		\$	
2340	04795		CONDUIT-2 IN ADDED: 9-16-13	595.00	LF		\$	
2350	04811		ELECTRICAL JUNCTION BOX TYPE B ADDED: 9-16-13	8.00	EACH		\$	
2360	04820		TRENCHING AND BACKFILLING ADDED: 9-16-13	1,165.00	LF		\$	
2370	04830		LOOP WIRE ADDED: 9-16-13	2,360.00	LF		\$	
2380	04844		CABLE-NO. 14/5C ADDED: 9-16-13	1,400.00	LF		\$	
2390	04850		CABLE-NO. 14/1 PAIR ADDED: 9-16-13	1.39	LF		\$	
2400	04873		POLE 45 FT WOODEN ADDED: 9-16-13	1.00	EACH		\$	
2410	04884		ANCHOR ADDED: 9-16-13	2.00	EACH		\$	
2420	04885		MESSENGER-10800 LB ADDED: 9-16-13	885.00	LF		\$	
2430	04895		LOOP SAW SLOT AND FILL ADDED: 9-16-13	940.00	LF		\$	

**PROPOSAL BID ITEMS**

Report Date 9/16/13

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
2440	04931		INSTALL CONTROLLER TYPE 170 ADDED: 9-16-13	1.00	EACH		\$	
2450	04932		INSTALL STEEL STRAIN POLE ADDED: 9-16-13	4.00	EACH		\$	
2460	04950		REMOVE SIGNAL EQUIPMENT ADDED: 9-16-13	1.00	EACH		\$	
2470	20188NS835		INSTALL LED SIGNAL-3 SECTION ADDED: 9-16-13	11.00	EACH		\$	
2480	21659NN		RELOCATE SIGNAL HEAD ADDED: 9-16-13	4.00	EACH		\$	
2490	23157EN		TRAFFIC SIGNAL POLE BASE ADDED: 9-16-13	19.89	CUYD		\$	
2500	23982EC		INSTALL ANTENNA ADDED: 9-16-13	1.00	EACH		\$	

**Section: 0008 - DEMOBILIZATION AND MOBILIZATION**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	FP	AMOUNT
2510	02568		MOBILIZATION	1.00	LS		\$	
2520	02569		DEMOBILIZATION	1.00	LS		\$	