



CALL NO. 300

CONTRACT ID. 181012

JEFFERSON COUNTY

FED/STATE PROJECT NUMBER FD04 SPP 056 1142 000-002

DESCRIPTION PALATKA ROAD(KY-1142)

WORK TYPE GRADE & DRAIN WITH ASPHALT SURFACE

PRIMARY COMPLETION DATE 8/15/2018

LETTING DATE: April 27,2018

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME April 27,2018. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

REQUIRED BID PROPOSAL GUARANTY: Not less than 5% of the total bid.

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PART I
SCOPE OF WORK

ADMINISTRATIVE DISTRICT - 05

CONTRACT ID - 181012

FD04 SPP 056 1142 000-002

COUNTY - JEFFERSON

PCN - DE05611421812

FD04 SPP 056 1142 000-002

PALATKA ROAD(KY-1142) SAFETY IMPROVEMENTS TO PALATKA ROAD(KY-1142) MP 0.198 TO MP 1.735, A
DISTANCE OF 01.50 MILES.GRADE & DRAIN WITH ASPHALT SURFACE SYP NO. 05-08803.00.
GEOGRAPHIC COORDINATES LATITUDE 38:09:07.00 LONGITUDE 85:47:06.00

COMPLETION DATE(S):

COMPLETED BY 08/15/2018

APPLIES TO ENTIRE CONTRACT

CONTRACT NOTES

PROPOSAL ADDENDA

All addenda to this proposal must be applied when calculating bid and certified in the bid packet submitted to the Kentucky Department of Highways. Failure to use the correct and most recent addenda may result in the bid being rejected.

BID SUBMITTAL

Bidder must use the Department's Expedite Bidding Program available on the Internet web site of the Department of Highways, Division of Construction Procurement. (www.transportation.ky.gov/construction-procurement)

The Bidder must download the bid file located on the Bid Express website (www.bidx.com) to prepare a bid packet for submission to the Department. The bidder must submit electronically using Bid Express.

JOINT VENTURE BIDDING

Joint venture bidding is permissible. All companies in the joint venture must be prequalified in one of the work types in the Qualifications for Bidders for the project. The bidders must get a vendor ID for the joint venture from the Division of Construction Procurement and register the joint venture as a bidder on the project. Also, the joint venture must obtain a digital ID from Bid Express to submit a bid. A joint bid bond of 5% may be submitted for both companies or each company may submit a separate bond of 5%.

UNDERGROUND FACILITY DAMAGE PROTECTION

The contractor shall make every effort to protect underground facilities from damage as prescribed in the Underground Facility Damage Protection Act of 1994, Kentucky Revised Statute KRS 367.4901 to 367.4917. It is the contractor's responsibility to determine and take steps necessary to be in compliance with federal and state damage prevention directives. When prescribed in said directives, the contractor shall submit Excavation Locate Requests to the Kentucky Contact Center (KY811) via web ticket entry. The submission of this request does not relieve the contractor from the responsibility of contacting non-member facility owners, whom shall be contacted through their individual Protection Notification Center. Non-compliance with these directives can result in the enforcement of penalties.

REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

Pursuant to KRS 176.085(1)(b), an agency, department, office, or political subdivision of the Commonwealth of Kentucky shall not award a state contract to a person that is a foreign entity required by [KRS 14A.9-010](#) to obtain a certificate of authority to transact business in the Commonwealth ("certificate") from the Secretary of State under [KRS 14A.9-030](#) unless the person produces the certificate within fourteen (14) days of the bid or proposal opening. If the

foreign entity is not required to obtain a certificate as provided in [KRS 14A.9-010](#), the foreign entity should identify the applicable exception. Foreign entity is defined within [KRS 14A.1-070](#).

For all foreign entities required to obtain a certificate of authority to transact business in the Commonwealth, if a copy of the certificate is not received by the contracting agency within the time frame identified above, the foreign entity's solicitation response shall be deemed non-responsive or the awarded contract shall be cancelled.

Businesses can register with the Secretary of State at <https://secure.kentucky.gov/sos/ftbr/welcome.aspx>.

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

Questions about projects during the advertisement should be submitted in writing to the Division of Construction Procurement. This may be done by fax (502) 564-7299 or email to kytc.projectquestions@ky.gov. The Department will attempt to answer all submitted questions. The Department reserves the right not to answer if the question is not pertinent or does not aid in clarifying the project intent.

The deadline for posting answers will be 3:00 pm Eastern Daylight Time, the day preceding the Letting. Questions may be submitted until this deadline with the understanding that the later a question is submitted, the less likely an answer will be able to be provided.

The questions and answers will be posted for each Letting under the heading "Questions & Answers" on the Construction Procurement website (www.transportation.ky.gov/contract). The answers provided shall be considered part of this Special Note and, in case of a discrepancy, will govern over all other bidding documents.

HARDWOOD REMOVAL RESTRICTIONS

The US Department of Agriculture has imposed a quarantine in Kentucky and several surrounding states, to prevent the spread of an invasive insect, the emerald ash borer. Hardwood cut in conjunction with the project may not be removed from the state. Chipping or burning on site is the preferred method of disposal.

INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

Identification of excess material sites and borrow sites shall be the responsibility of the Contractor. The Contractor shall be responsible for compliance with all applicable state and federal laws and may wish to consult with the US Fish and Wildlife Service to seek protection under Section 10 of the Endangered Species Act for these activities.

ACCESS TO RECORDS

The contractor, as defined in KRS 45A.030 (9) agrees that the contracting agency, the Finance and Administration Cabinet, the Auditor of Public Accounts, and the Legislative Research

Commission, or their duly authorized representatives, shall have access to any books, documents, papers, records, or other evidence, which are directly pertinent to this contract for the purpose of financial audit or program review. Records and other prequalification information confidentially disclosed as part of the bid process shall not be deemed as directly pertinent to the contract and shall be exempt from disclosure as provided in KRS 61.878(1)(c). The contractor also recognizes that any books, documents, papers, records, or other evidence, received during a financial audit or program review shall be subject to the Kentucky Open Records Act, KRS 61.870 to 61.884.

In the event of a dispute between the contractor and the contracting agency, Attorney General, or the Auditor of Public Accounts over documents that are eligible for production and review, the Finance and Administration Cabinet shall review the dispute and issue a determination, in accordance with Secretary's Order 11-004.

January 10, 2018

SPECIAL NOTE FOR RECIPROCAL PREFERENCE

Reciprocal preference to be given by public agencies to resident bidders

By reference, KRS 45A.490 to 45A.494 are incorporated herein and in compliance regarding the bidders residency. Bidders who want to claim resident bidder status should complete the Affidavit for Claiming Resident Bidder Status along with their bid in the Expedite Bidding Program. Submittal of the Affidavit should be done along with the bid in Bid Express.

03/01/2011

ASPHALT MIXTURE

Unless otherwise noted, the Department estimates the rate of application for all asphalt mixtures to be 110 lbs/sy per inch of depth.

DGA BASE

Unless otherwise noted, the Department estimates the rate of application for DGA Base to be 115 lbs/sy per inch of depth.

DGA BASE FOR SHOULDERS

Unless otherwise noted, the Department estimates the rate of application for DGA Base for Shoulders to be 115 lbs/sy per inch of depth. The Department will not measure necessary grading and/or shaping of existing shoulders prior to placing of DGA Base, but shall be incidental to the Contract unit price per ton for DGA Base.

Accept payment at the Contract unit price per ton as full compensation for all labor, materials, equipment, and incidentals for grading and/or shaping of existing shoulders and furnishing, placing, and compacting the DGA Base.

INCIDENTAL SURFACING

The Department has included in the quantities of asphalt mixtures established in the proposal estimated quantities required for resurfacing or surfacing mailbox turnouts, farm field entrances, residential and commercial entrances, curve widening, ramp gores and tapers, and road and street approaches, as applicable. Pave these areas to the limits as shown on Standard Drawing RPM-110-06 or as directed by the Engineer. In the event signal detectors are present in the intersecting streets or roads, pave the crossroads to the right of way limit or back of the signal detector, whichever is the farthest back of the mainline. Surface or resurface these areas as directed by the Engineer. The Department will not measure placing and compacting for separate payment but shall be incidental to the Contract unit price for the asphalt mixtures.

OPTION B

Be advised that the Department will control and accept compaction of asphalt mixtures furnished on this project under OPTION B in accordance with Sections 402 and 403.

PROJECT DESCRIPTION

Jefferson County
Safety Improvements to Palatka Road

EMARS# 92694 01D
Item No. 5-8803.00

PROJECT PURPOSE:

The purpose of this project is to improve the safety of Palatka Rd. (KY 1142) between St. Andrews Church R. (KY 1931) and Southside Dr. (KY 1020). Spot improvements will be made to intersection radii, drainage inlet/outlets, entrance/grading, and signal heads. The project will begin just west of Cardinal Hill Rd. and will end at the intersection with Southside Dr. Palatka Road is a two lane roadway with 11' lanes and minimal shoulders.

Specifically, the following will also be required:

- Saw cut existing asphalt pavement to construct additional pavement for a larger radius
- Extend existing culvert/entrance pipes and replace inlet/outlet boxes
- Replace a gravel driveway with a re-graded concrete entrance
- Improve ditch grading and erosion control blanket and turf reinforcement mat
- Construct sidewalk and ramps with detectable warnings
- Remove concrete masonry from existing headwalls
- Replace existing signal heads and add backer plates

GENERAL NOTES

PROJECT COORDINATES:

The coordinates for the center of the project are:

Northing: 3943184.53

Easting: 4911013.57

TRAFFIC VOLUME

The ADT for this project was obtained from Count Year 2008, and is as follows:

- 2016 ADT – 12,383

SURFACING AREAS

Full depth construction at intersection radii is estimated to vary from 4-8 ft wide.

Total asphalt area is estimated to be 120 square yards.

UNDERGROUND UTILITIES:

The contractor shall use all possible care in his operations to avoid damaging existing pipes and any underground existing utilities. He shall be responsible for any damages to the above mentioned items and shall repair or restore at his own expense any items damaged as the result of his operations.

OVERHEAD UTILITIES:

The minimum vertical clearance of existing overhead utilities should be 18 feet on state roads and 24 feet when crossing interstate or other limited access highway roadways and ramps.

Clearance must also adhere to the requirements of the National Electric Safety Code, American Standards Institute, and Institute of Electrical and Electronic Engineers, Inc. Any questions concerning working around the existing facilities in the area can be addressed at the preconstruction meeting.

UTILITIES (HAZARDOUS OR FLAMMABLE MATERIAL):

The contractor is advised to exercise caution in his operations in areas of gas line or other lines carrying hazardous material.

CONSTRUCTION MATERIAL DISPOSAL:

All pavement, asphalt material, and any other material that is required to be removed shall be disposed of off the Right-of-Way at sites acquired by the contractor and approved by the engineer, at no additional cost to the department, per section 204.03.08 of current KYTC Standard Specifications.

EXISTING SIGNS:

It is the contractor's responsibility to reset any signs inside the project limits that are affected by the project. This includes moving signs, adjusting the height, etc. This work will be directed by the engineer and considered incidental to the project.

AVOIDANCE OF UNDERGROUND TRAFFIC DEVICES:

It is the contractor's responsibility to coordinate with Central Office traffic through the engineer to determine where underground traffic control devices are located for the project. Locations of existing traffic devices may not be accurately reflected on the plans and should be addressed before beginning construction. The contractor shall be responsible for any damages to the above mentioned items and shall repair or restore at their own expense any items damaged as a result of his operations.

STANDARD DRAWINGS

RDB-011-08	Drop Box Inlet Type 11
RDB-010-08	Sloped Box Inlet or Outlet Type 1
RDH-030-03	Sloped and Parallel Headwalls 12"-21" Pipe
RDI-001-10	Culvert, Entrance, & Storm Sewer Pipe Types & Cover Heights
RDI-025-05	Pipe Bedding Trench Condition
RDI-026-01	Pipe Bedding Trench Condition Reinforced Concrete Pipe
RDI-035-02	Coatings, Linings and Pavings For Non-Structural Plate Pipe
RDI-041-01	Erosion Control blanket Channel Installation
RDX-210-03	Temporary Silt Fence
RDX-225-01	Silt Trap Type B
RDX-230-01	Silt Trap Type C
RGX-001-06	Miscellaneous Standards Part 1
RGX-040-03	Detectable Warnings
RPM-110-07	Approaches, Entrances and Mail Box Turnout
RPM-170-09	Sidewalk Ramps
TTC-100-04	Lane Closure Two-Lane Highway

TRAFFIC MANAGEMENT PLAN
Jefferson County
FD04 SPP 056 1142 000-002
Palatka Road (KY 1142) Safety Improvements
EMARS No. 92694 01D
Item No. 5-8803.00

TRAFFIC CONTROL GENERAL NOTES

Lane closures are to only occur between 9am and 3pm. Lane closures are anticipated on Palatka Rd. near the intersection with Southside Dr. and along Southside Dr. at the intersection with Palatka Rd. Flaggers are to be used on all legs of the intersection during the lane closures. No lane closures are allowed between the hours of 7am to 9am and 3pm to 6pm unless permission is otherwise granted by the engineer. All lane closures shall be in conformance with the current MUTCD & KYTC Standard Drawings.

In addition, lane closures will not be allowed during the following days:

July 4, 2018	Independence Day
Sept. 1-3, 2018	Labor Day Weekend
Nov. 22-26, 2018	Thanksgiving Weekend

At the discretion of the Engineer, additional days and hours may be added when lane closures will not be allowed.

Night work is NOT allowed on this project without the written permission of the Engineer.

TRAFFIC CONTROL GENERAL:

Except as provided herein, maintain and control traffic in accordance with the current Standard Specifications and Standard Drawings, current editions. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic will be paid at the lump sum bid price to "Maintain and Control Traffic."

Contrary to Section 106.01, traffic control devices used on this project may be new or used in like-new condition, at the beginning of work and maintained in like new condition until completion of the work.

The speed limit in the work area may be reduced by 10 MPH from the posted speed. The extent of these areas within the project limits will be restricted to the proximity of actual work areas as determined by the engineer.

Traffic control devices should follow the MUTCD and the standard drawings and must be approved by the engineer before placement. Lane closures will include signing present in MUTCD TA-15, TA-23 & TA-30 as applicable. Signing is not limited to these guidelines and should be placed only with the approval from the engineer so as not to block sight distance. All

lane closures shall be in conformance with the current MUTCD & KYTC Standard Drawings. The minimum clear lane width shall be **10 ft** (this may include a portion of the adjacent shoulder). If traffic should be stopped due to construction operations and a school bus or emergency vehicle on an official run arrives on the scene, make provisions for the passage of the bus as quickly as possible.

Once work begins at a site, promptly complete all work at that site. Maintain at least one access point to each parcel at all times. Keep the traveled way clear of mud and debris at all times during construction. Do not allow non-construction equipment, vehicles, or office trailers at work sites. Leave the right of way clear of all equipment, materials, and vehicles during non-working hours.

Take these restrictions into account when preparing bid. The Department will not consider any claims or allow additional payment for any delays to the Contractor as a result of these restrictions.

PROJECT PHASING AND CONSTRUCTION PROCEDURES:

Phase I (Work on South Side of the Road)

At Cardinal Hill Road (Section A)

- Taper both lanes to 10' minimum lane widths at the radius improvement
- Regrade ditch and install proposed pipe and outlet
- Remove existing pavement in area specified on the plan and replace with full-depth pavement

Right Sta. 29+65 to Sta. 29+97 (Section B)

- Taper the eastbound lane for shoulder closure
- Regrade ditch and install proposed pipe and drainage boxes

Right Sta. 66+44 to Sta. 67+30 (Section C)

- Taper both lanes to 10' minimum lane widths at the drainage improvement
- Regrade ditch, install proposed drainage structures and reconstruct entrance
- Maintain access to properties at all times
- Remove portions of the existing headwall at 69+09 Rt.

At Southside Drive (Section D)

- Taper and close the eastbound lane at the radius improvement
- Taper and close the southbound lane of Southside Dr.
- Regrade ditch and install proposed drainage structures
- Remove existing pavement in area specified on the plan and replace with full-depth pavement
- The lane closures shall be stopped and the road made passable to traffic at night

Phase II (Work on North Side of the Road)

Left Sta. 69+12 (Section C)

- Taper both lanes to 10' minimum lane widths existing headwall Sta. 69+12 Lt.
- Remove portions of the existing headwall at 69+12 Lt.

At Southside Drive (Section D)

- Taper and close the westbound lane at the radius improvement
- Taper and close the southbound lane of Southside Dr.
- Regrade ditch and install proposed drainage structures
- Remove existing pavement in area specified on the plan and replace with full-depth pavement
- The lane closures shall be stopped and the road made passable to traffic at night

The specified completion date for this project is **August 15th, 2018**.

PROJECT DISCRETION:

Refer to Section 108.09 of the current edition of the KENTUCKY STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION for the schedule of agreed liquidated damages should construction continue beyond the specified completion date.

In addition, Contrary to Section 108.09, Liquidated Damages shall be assessed for the following:

The contractor shall work in a continuous manner once temporary traffic control is in place. If the contractor stops work in an area for more than two calendar days, without the engineers approval, the liquidated damages will be assessed at the contract rate for every day until work resumes.

LANE CLOSURES:

Do not leave lane closures in place during non-working hours.

SIGNS:

The engineer may require additional traffic control signs in addition to normal lane closure signing detailed on the Standard Drawings.

Contrary to section 112.04.02, signs will not be measured for payment but shall be incidental to Maintain and Control Traffic. Replacements for damaged signs directed by the engineer to be replaced due to poor condition or reflectivity will not be measured for payment.

VARIABLE MESSAGE SIGNS:

If deemed necessary by the engineer, variable message signs will be installed, operated and maintained by the Department.

TRAFFIC COORDINATOR:

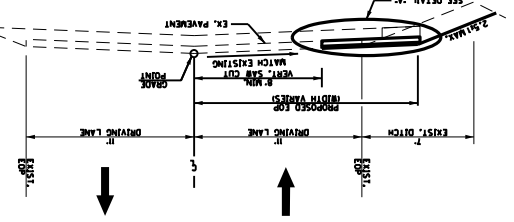
Designate an employee to be traffic coordinator during any work period when shoulder and/or lane closure is in place, the traffic coordinator shall arrange for personnel to be present on the project at all times to inspect the traffic control (at least once every two hours during active operations and at any time a lane closure is in effect) and to maintain the signing and devices. The personnel shall have access to on the project to a radio or telephone to be used in case of emergencies or accidents. The traffic coordinator shall

report all incidents throughout the work zone to the engineer. Furnish the engineer with the name and telephone number where the traffic coordinator can be contacted at all times.

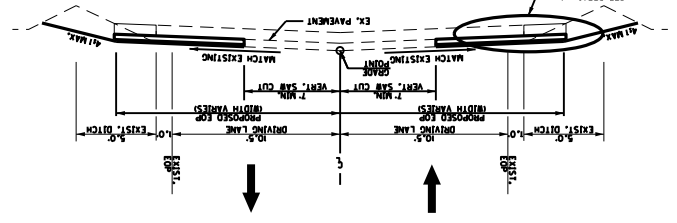
PAVEMENT EDGE DROP-OFFS:

Pavement edge drop offs must be designated with channelizing devices (warning light optional) every 15' or eliminated with a DGA taper at the end of each work period.

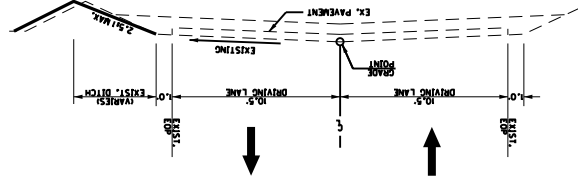
**SOUTHSIDE DRIVE (KY 907)
RADIUS IMPROVEMENTS
LEFT STA. 4+12.52 - STA. 5+59.19**



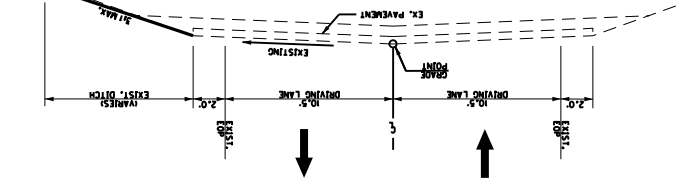
**PALATKA ROAD (KY 1142)
RADIUS IMPROVEMENTS AT
LEFT STA. 90+85.20 - STA. 91+73.14
RIGHT STA. 91+06.50 - STA. 91+35.30**



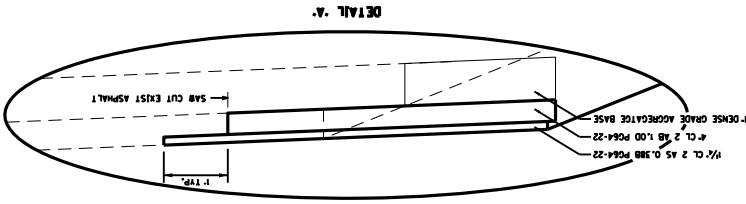
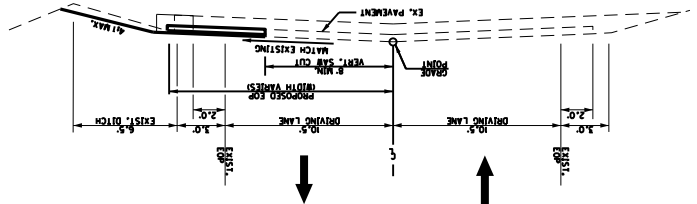
**PALATKA ROAD (KY 1142)
DRAINAGE IMPROVEMENTS
RIGHT STA. 66+43.90 - STA. 67+29.86**



**PALATKA ROAD (KY 1142)
DRAINAGE IMPROVEMENTS
RIGHT STA. 29+65.16 - STA. 29+97.46**



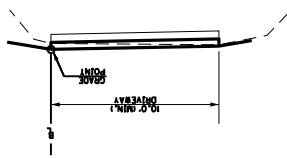
**PALATKA ROAD (KY 1142)
RADIUS IMPROVEMENTS AT
CARDINAL HILL DRIVE
RIGHT STA. 10+64.60 - STA. 11+14.68**



CONSTRUCTION GRADE, DRAIN & FLEXIBLE PAVEMENT USING
PALATKA ROAD (KY 1142)
PAVEMENT SCHEDULE
1.25" SURFACE
4" COMPACTED DEPTH CL 2 ASPHALT SURFACE, 0.388, PG64-22
4" ASPHALT BASE
4" COMPACTED DEPTH CL 2 ASPHALT SURFACE, 1.00, PG64-22
4" DENSE GRADE AGGREGATE
B COMPACTED DEPTH DGA

- GENERAL NOTES**
1. SAW CUT EXISTING PAVEMENT AS DIRECTED BY THE ENGINEER TO PROVIDE A UNIFORM EDGE TO ADJUT NEW PAVEMENT AGAINST. SAW CUT SHALL BE INCIDENTAL TO ROADWAY EXCAVATION.
 2. STEP OUT WIDTH TO MATCH THE THICKNESS OF THE COURSE ABOVE THE ASPHALT SEAL COAT REQUIRED FROM THE OUTSIDE EDGE OF THE PAVED APPLICATIONS AT THE RATE OF 20 LBS/SY ITEM 100 ASPHALT SEAL AGGREGATE (SIZE NO. 8 OR 9M.1) 2.40 LBS/SY ITEM 103 ASPHALT SEAL COAT
 3. SOOING PLACED BETWEEN EXISTING CURB AND PROPOSED SIDEWALK FOR ANTICIPATED REPAIRS NEEDED AFTER REMOVING EXISTING PERS AND PROPOSED CONSTRUCTION.

**ENTRANCE PROFILE
STA. 66+91 RT**



COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8803	

SCALE: 1"=NO SCALE

FD04 SPP 056 1142 000-002
PALATKA ROAD (KY 1142)

TYPICAL SECTIONS

5-8803.00
 Palatka Road Improvements
GENERAL SUMMARY

Item	Description	Unit	Qty	NOTES
1	DGA BASE	TON	58	
100	ASPHALT SEAL AGGREGATE	TON	2.36	1
103	ASPHALT SEAL COAT	TON	0.26	1
212	CL2 ASPH BASE 1.00D PG64-22	TON	31	
307	CL2 ASPH SURF 0.38B PG64-22	TON	10	
356	ASPHALT MATERIAL FOR TACK	TON	0.11	
462	CULVERT PIPE-18 IN	LF	7	
520	STORM SEWER PIPE-12 IN	LF	28	
521	STORM SEWER PIPE-15 IN	LF	24	
522	STORM SEWER PIPE-18 IN	LF	58	
1432	SLOPED BOX OUTLET TYPE 1-15 IN	EACH	2	
1433	SLOPED BOX OUTLET TYPE 1-18 IN	EACH	3	
1442	SLOPED AND PARALLEL HEADWALL-12 IN	EACH	2	
1544	DROP BOX INLET TYPE 11	EACH	2	
1726	SAFETY BOX INLET-18 IN SDB-1	EACH	1	
2157	PAVED DITCH TYPE 1	SOYD	7.5	
2403	REMOVE CONCRETE MASONRY	CUYD	11	2
2460	REMOVE TREES OR STUMPS	EACH	1	
2545	CLEARING AND GRUBBING	LS	1	
2562	TEMPORARY SIGNS	SOFT	61	
2569	DEMOBILIZATION	LS	1	
2575	DITCHING AND SHOULDERING	LF	143	
2650	MAINTAIN & CONTROL TRAFFIC	LS	1	
2701	TEMP SILT FENCE	LF	500	
2704	SILT TRAP TYPE B	EACH	3	
2705	SILT TRAP TYPE C	EACH	6	
2707	CLEAN SILT TRAP TYPE B	EACH	3	
2708	CLEAN SILT TRAP TYPE C	EACH	6	
2720	SIDEWALK-4 IN CONCRETE	SOYD	3	
2721	REMOVE CONCRETE SIDEWALK	SOYD	3	
2726	STAKING	LS	1	
5950	EROSION CONTROL BLANKET	SOYD	153	
5963	INITIAL FERTILIZER	TON	0.1	
5964	20-10-10 FERTILIZER	TON	0.1	
5985	SEEDING AND PROTECTION	SOYD	520	
5992	AGRICULTURAL LIMESTONE	TON	0.5	
6510	TEMP STRIPING-PERM PAINT-4 IN	LF	2785	
6517	PAVE STRIPING-PERM PAINT-12 IN	LF	94	
6568	PAVE MARKING-THERMO STOP BAR-24IN	LF	16	
21289ED	LONGITUDINAL EDGE KEY	LF	226	
23158ES505	DETECTABLE WARNINGS	SOFT	24	

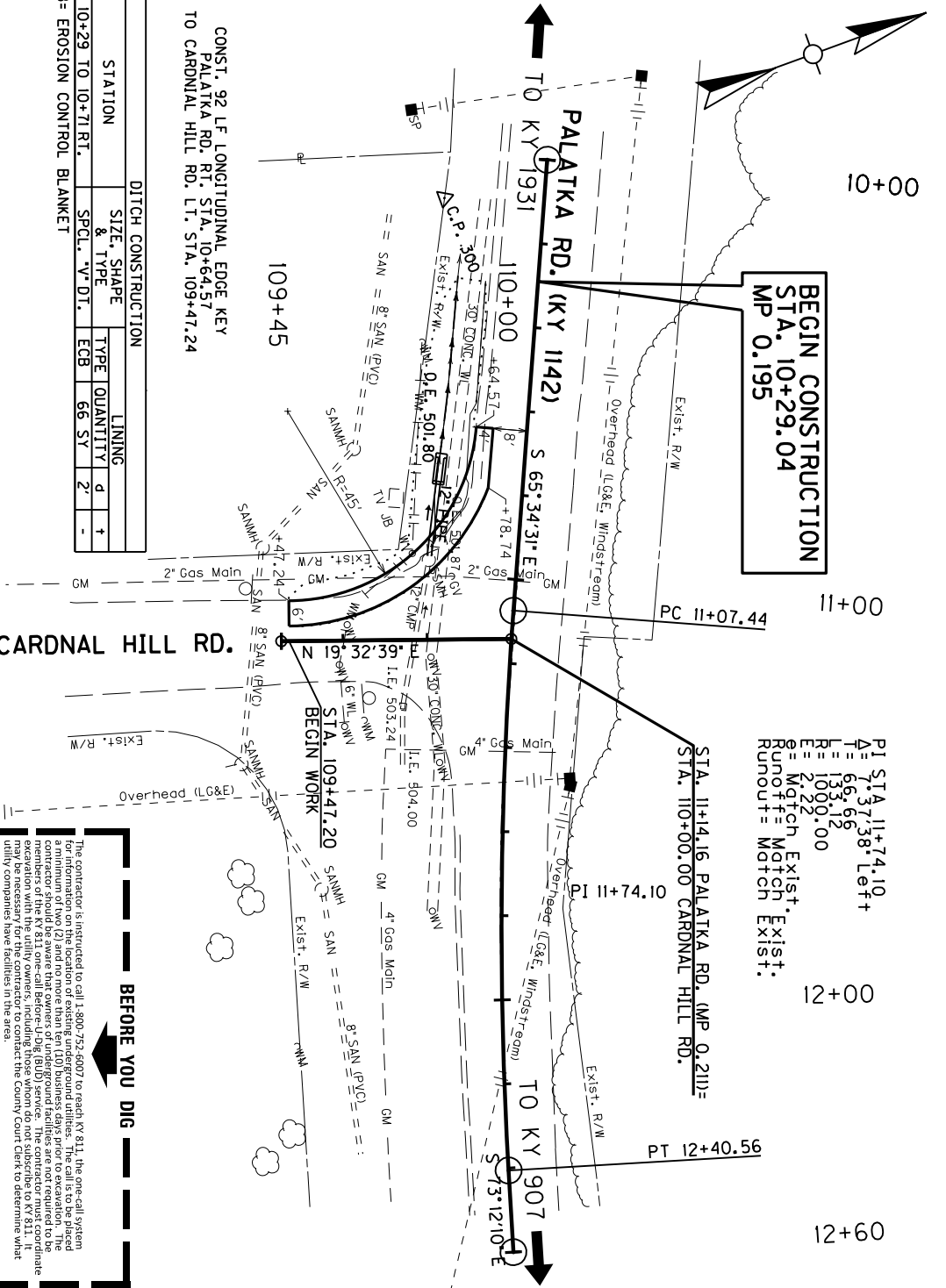
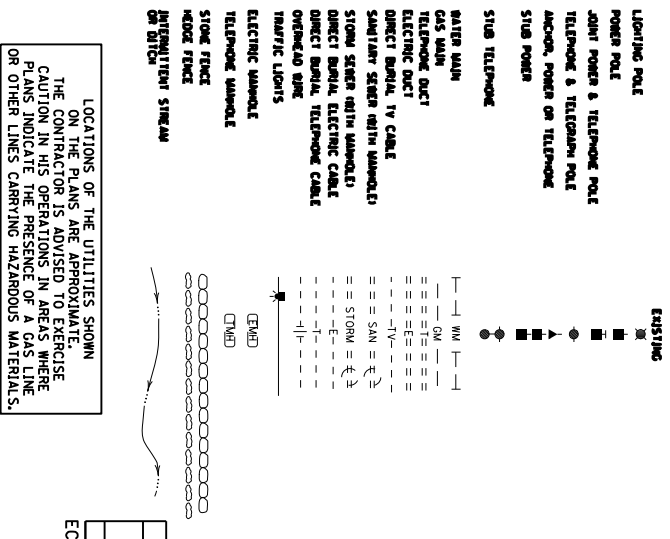
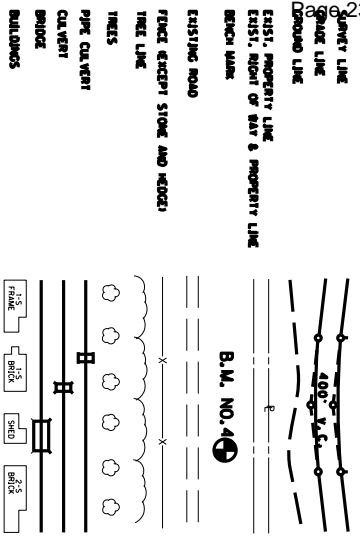
NOTE 1: TO BE PLACED AT DITCHING AND SHOULDERING LOCATIONS PER ENGINEER
 NOTE 2: ITEM FOR REDUCING THE HEIGHT OF 2 EXISTING CONCRETE HEAWALLS TO NO MORE THAN 4" ABOVE THE EXISTING GROUNDLINE.

5-8803.00
Palatka Road Improvements
PIPE QUANTITIES

Station	Mile Point	Existing				Proposed										Comments	
		Pipe Size, Type	Left Hdwl	Right Hdwl	Skew	Length (LF)	Remove Pipe (LF)	Culvert Pipe 18" (LF)	S.S. Pipe 12" (LF)	S.S. Pipe 15" (LF)	S.S. Pipe 18" (LF)	15' SLOPED BOX I/O	18" SLOPED BOX I/O	12" SLOPED & PARALLEL HDWL	DBI TY11		18" SAFETY TYPE BOX INLET
			Left	Right			Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	
Palatka Road																	
SEC A	0.21	12" RCP		none	0	18		4	18								
SEC B	0.56	15" RCP		HDWL Baffles	0	106		4									
	0.57	18" RCP		EL HDWL	30' RT	51		4			1					1	
SEC C	1.26	12" RCP		none	0	22		2						1			
	1.26	12" RCP		none	0	22		2							1		
	1.27	15" CMP		none	0	21		21			1						
SEC D	1.73	18" RCP	none	none	0	16	4					1					
	1.73	18" RCP		none	0	14	4								1		
Southside Drive																	
	3.01	18" RCP	none	none	0	41	8					1					
	3.02	18" RCP	none	none	0	16	4					1					
TOTALS:																	
			16	41	7	28	24	24	58	2	2	3	0	2	2	0	1

These Pipe and Drainage Item quantities and locations are approximate and are intended to provide a basis for bid. Final locations, flow line elevations, grate elevations, and quantities will be determined by the contractor and approved by the engineer in the field. Quantity for Remove Pipe shown for information only.

CONVENTIONAL SIGNS



CONST. 92 LF LONGITUDINAL EDGE KEY
 PALATKA RD. RT. STA. 10+64.57
 TO CARDINAL HILL RD. LT. STA. 109+47.24

STATION	DITCH CONSTRUCTION	SIZE, SHAPE & TYPE	TYPE	QUANTITY	d	t
10+29 TO 10+71 RT.	SPCL. 'V' DT.	ECB	66	SY	2'	-

ECB= EROSION CONTROL BLANKET

JEFFERSON COUNTY UTILITY OWNERS ON PROJECT

ELECTRIC
 LG&E KU (Electric)
 509 WEST BROADWAY
 LOUISVILLE, KY 40202
 LG&E Emergency Number (502) 589-1444
 LG&E and KU Emergency Number 1-800-331-7370

GAS
 LG&E (Gas)
 820 WEST BROADWAY
 LOUISVILLE, KY 40202
 Gas Emergency Number (502) 589-5511
 LG&E and KU Emergency Number 1-800-331-7370

WATER
 SHUISVILLE WATER CO.
 550 SOUTH THIRD STREET
 TOWNSVILLE, KY 40203

SEWER
 METROPOLITAN SEWER DISTRICT
 100 WEST LIBERTY STREET
 TOWNSVILLE, KY 40203

CONTACT: GREG GEISER, PROJECT MANAGER
 OFFICE: (502) 627-3708
 E-MAIL: greg.geiser@lge-ku.com

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 OFFICE: (502) 627-3708
 E-MAIL: greg.geiser@lge-ku.com

CONTACT: GREG POWELL, BRANDON FLAHERTY
 OFFICE: (502) 540-6532
 CELL: (502) 381-0804
 E-MAILS: br@rdowell@louisvilleksd.org
 br@rdon@tdaher@louisvilleksd.org

COMMUNICATIONS
 AIRT KY
 1340 E. JOHN ROMAN BLVD.
 BARDSTOWN, KY 40004

Other Communications
 1058 LUNA STATION ROAD SUITE 120
 LOUISVILLE, KY 40223

CONTACT: SCOTT ROCHE
 OFFICE: (502) 348-4528
 CELL: (502) 821-4703
 E-MAIL: sr@scottroche.com

CONTACT: DENN BARBOUR
 CELL: (502) 664-7395
 OFFICE: (502) 357-4376
 E-MAIL: Dmigh@barbour@wcbabe.com

Kevin Mercer
 CELL: (502) 817-5055
 OFFICE: (502) 357-4724
 E-MAIL: kevin.mercer@er-ter.com

Richard Bogst
 CELL: (502) 817-0734
 OFFICE: (502) 357-4118
 E-MAIL: rrichor@dostrichter.com

CONTACT: JAMES GALVIN, PROJECT MANAGER
 OFFICE: (270) 765-1818
 CELL: (270) 765-9249
 E-MAIL: jg@windsream.com

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 CELL: (270) 765-9249
 E-MAIL: jg@windsream.com

Send to both contacts

SCALE: 1"=40'

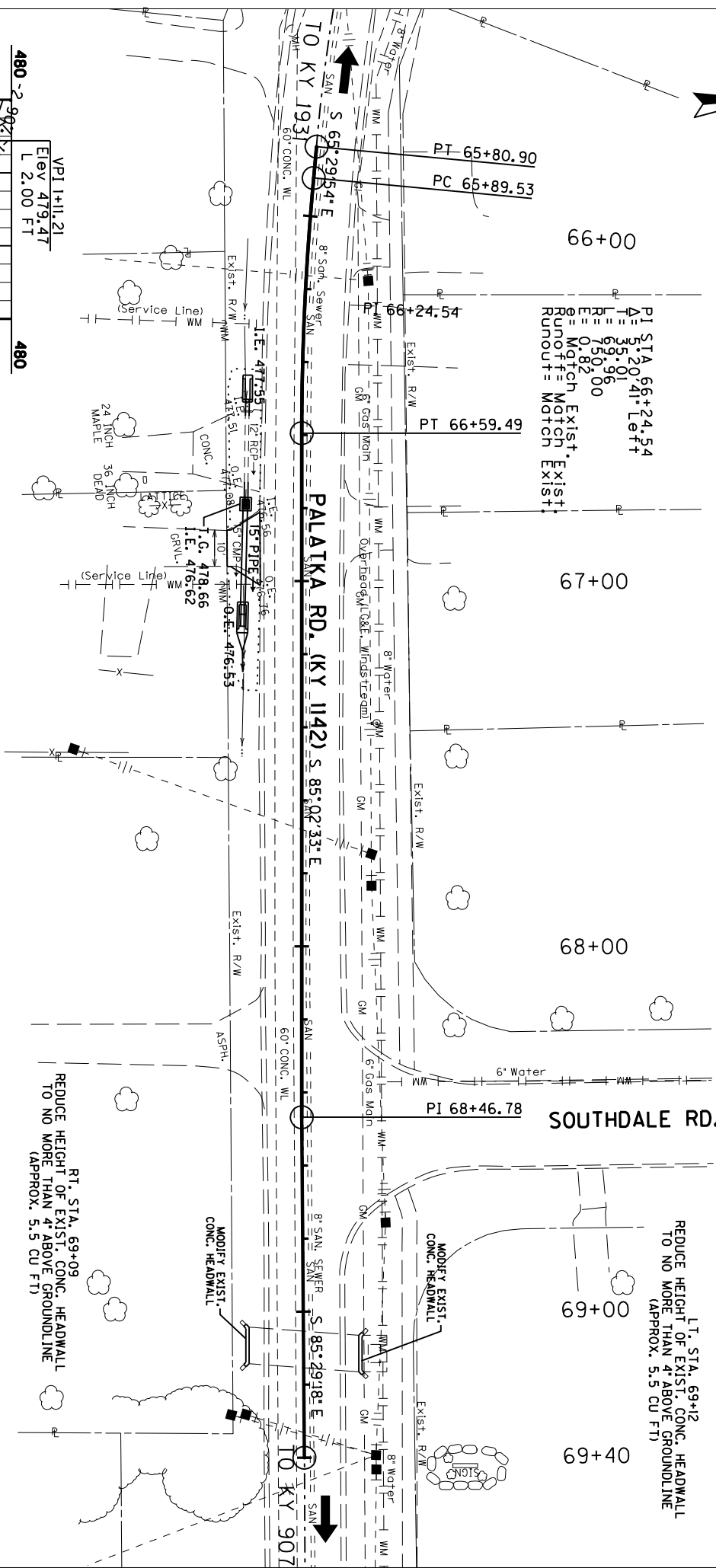
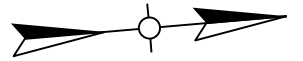
COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8803	

SECTION A
CARDINAL HILL DRIVE
PLAN SHEET

FD04 SPP 056 1142 000-002
PALATKA ROAD (KY 1142)

BEFORE YOU DIG

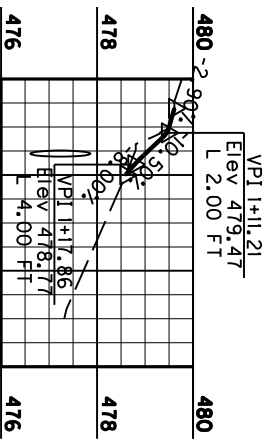
The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system. A minimum of two (2) and no more than ten (10) business days prior to excavation, the contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-You-Dig (BYD) service. The contractor must coordinate with the utility owners to determine the location of all underground facilities. The contractor may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.



PI STA 66+24.54
 ΔI = 5.20' 41" Left
 L = 35.01
 E = 69.96
 R = 750.00
 E = 0.82
 Runout = Match
 Match Exist.
 Match Exist.

LT. STA. 69+12
 REDUCE HEIGHT OF EXIST. CONC. HEADWALL
 TO NO MORE THAN 4' ABOVE GROUNDLINE
 (APPROX. 5.5 CU FT)

RT. STA. 69+09
 REDUCE HEIGHT OF EXIST. CONC. HEADWALL
 TO NO MORE THAN 4' ABOVE GROUNDLINE
 (APPROX. 5.5 CU FT)



ENTRANCE PROFILE
 STA. 66+91 RT

RT. STA. 66+91 CONSTRUCT
 19 SY OF CONCRETE ENTRANCE

STATION	SIZE, SHAPE & TYPE	DITCH CONSTRUCTION	LINING	QUANTITY	UNIT
67+14 TO 67+30 RT.	SPCL. V. DT.	ECB	11 SY	2'	-

ECB = EROSION CONTROL BLANKET

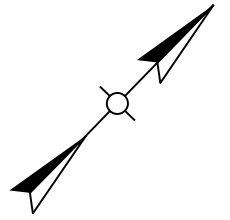
LOCATIONS OF THE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR IS ADVISED TO EXERCISE CAUTION IN HIS OPERATIONS IN AREAS WHERE PLANS INDICATE THE PRESENCE OF A GAS LINE OR OTHER LINES CARRYING HAZARDOUS MATERIALS.

SCALE: 1" = 40'

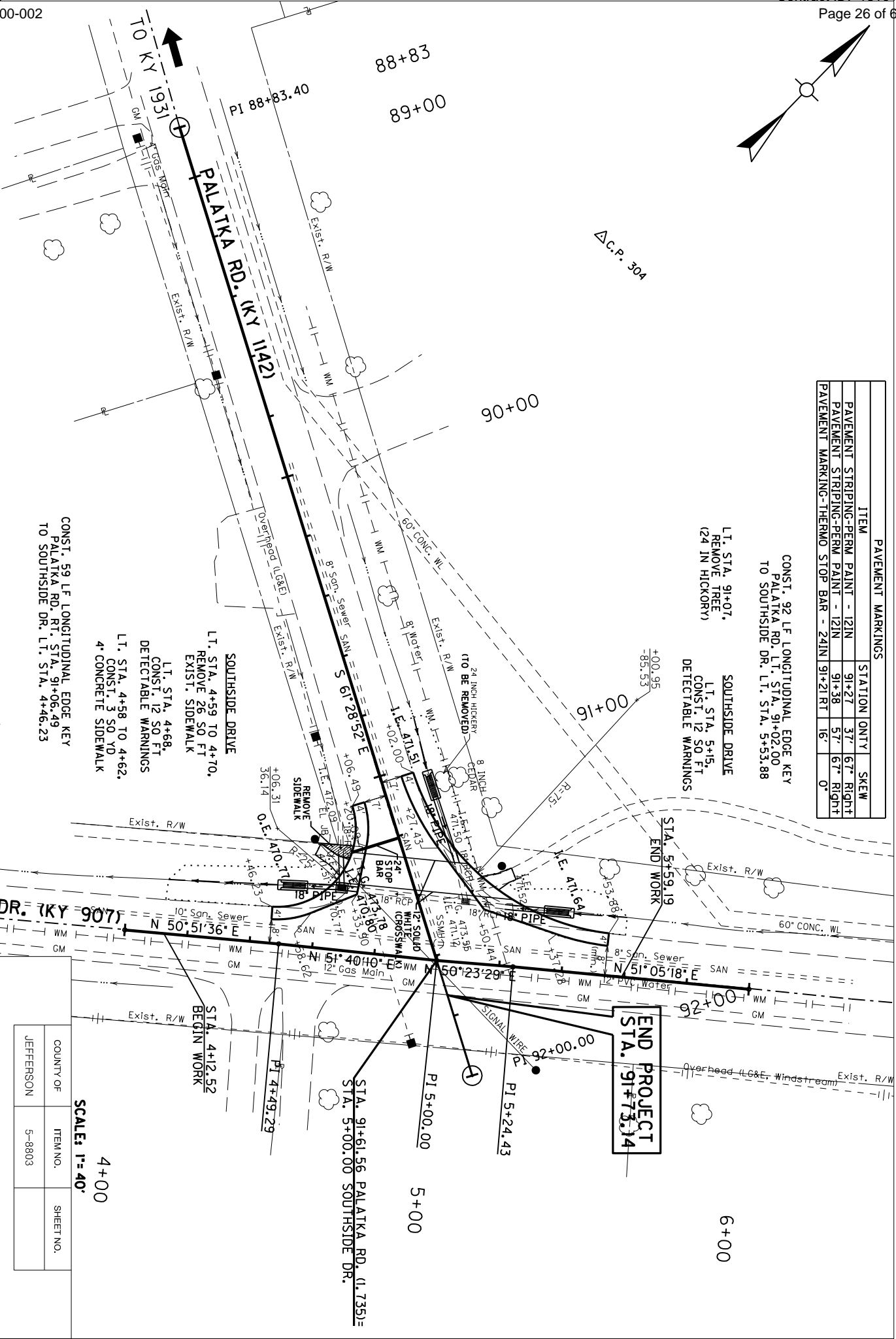
COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8803	

SECTION C
 DRAINAGE IMPROVEMENTS
 PLAN SHEET

PALATKA ROAD (KY 1142)



PAVEMENT MARKINGS			
ITEM	STATION	QNTY	SKEW
PAVEMENT STRIPING-PERM PAINT - 12IN	91+27	37	67° Right
PAVEMENT STRIPING-PERM PAINT - 12IN	91+38	57	67° Right
PAVEMENT MARKING-THERMO STOP BAR - 24IN	91+21 RT	16	0°



CONST. 59 LF LONGITUDINAL EDGE KEY
PALATKA RD. LT. STA. 91+06.49
TO SOUTHSIDE DR. LT. STA. 4+46.23

SOUTH SIDE DRIVE
LT. STA. 4+59 TO 4+70,
REMOVE 26 SO FT
EXIST. SIDEWALK
LT. STA. 4+68,
CONST. 12 SO FT
DETECTABLE WARNINGS
LT. STA. 4+58 TO 4+62,
CONST. 3 SO FT
4" CONCRETE SIDEWALK

SOUTH SIDE DRIVE
LT. STA. 5+15,
CONST. 12 SO FT
DETECTABLE WARNINGS

STA. 5+59.19
END WORK

END PROJECT
STA. 91+73.14

LOCATIONS OF THE UTILITIES SHOWN
ON THE PLANS ARE APPROXIMATE.
THE CONTRACTOR IS ADVISED TO EXERCISE
CAUTION IN HIS OPERATIONS IN AREAS WHERE
PLANS INDICATE THE PRESENCE OF A GAS LINE
OR OTHER LINES CARRYING HAZARDOUS MATERIALS.

STATION	DITCH CONSTRUCTION		LINING	
	SIZE & TYPE	TYPE	QUANTITY	d
90+85 TO 91+03 L.T.	PALATKA RD.	ECB	18 SY	2'
4+12 TO 4+47 L.T.	SOUTHSIDE DR.	ECB	39 SY	2'
5+42 TO 5+59 L.T.		SPCL. V. DT.	19 ST	2'

SOUTH SIDE DRIVE
STA. 4+12.52
BEGIN WORK

SECTION D
SOUTH SIDE DRIVE
PLAN SHEET

PALATKA ROAD (KY 1142)

COUNTY OF JEFFERSON
ITEM NO. 5-8803
SHEET NO.

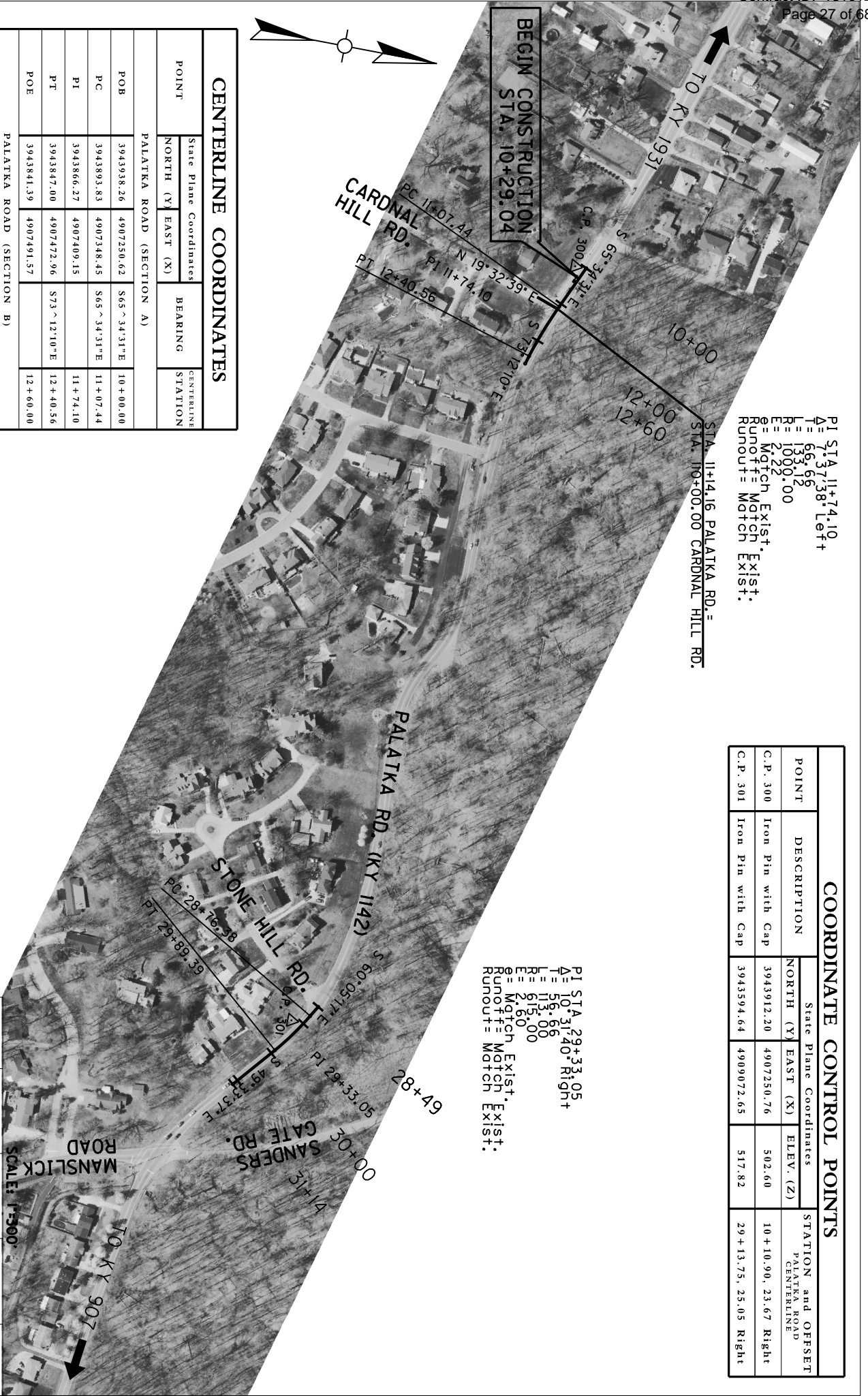
SCALE: 1"=40'

4+00

5+00

6+00

ECB= EROSION CONTROL BLANKET



PI STA. 11+74.10
 T = 66.66
 L = 132.98
 P = 100.00
 E = 2.22
 Runout = Match Exist.
 Runout = Match Exist.

COORDINATE CONTROL POINTS				
POINT	DESCRIPTION	State Plane Coordinates		STATION and OFFSET PALATKA ROAD CENTERLINE
		NORTH (Y)	EAST (X)	
C.P. 300	Iron Pin with Cap	3943912.20	4907250.76	502.60 10 + 10.90, 23.67 Right
C.P. 301	Iron Pin with Cap	3943394.64	4909072.65	517.82 29 + 13.75, 25.05 Right

PI STA. 29+33.05
 T = 56.66
 L = 113.00
 P = 615.00
 E = 2.60
 Runout = Match Exist.
 Runout = Match Exist.

CENTERLINE COORDINATES

POINT	State Plane Coordinates		BEARING	CENTERLINE STATION
	NORTH (Y)	EAST (X)		
PALATKA ROAD (SECTION A)				
POB	3943938.26	4907250.62	S65 ~ 34.31"E	10 + 00.00
PC	3943893.83	4907348.45	S65 ~ 34.31"E	11 + 07.44
P1	3943866.27	4907409.15		11 + 74.10
PT	3943847.00	4907472.96	S73 ~ 12.10"E	12 + 40.56
POE	3943841.39	4907491.57		12 + 60.00
PALATKA ROAD (SECTION B)				
POB	3943649.03	4909030.52	S60 ~ 05.17"E	28 + 48.56
PC	3943635.16	4909054.64	S60 ~ 05.17"E	28 + 76.48
P1	3943606.91	4909103.75		29 + 33.05
PT	3943570.15	4909146.87	S49 ~ 33.37"E	29 + 89.39
POE	3943489.56	4909241.43		31 + 13.63
CARDINAL HILL RD.				
POB	3943839.56	4907336.30	N19 ~ 32.59"E	109 + 45.34
POE	3943891.07	4907354.58		110 + 00.00

PROJECT COORDINATES

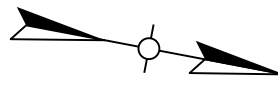
Horizontal coordinates on control point 2 was obtained from an OPUS solution dated May 29, 2014. Horizontal coordinates are based on the NAD83/BN system. The basis of elevations was also used by this solution and is based on the NAVD88 vertical datum. These coordinates are State Plane Coordinates (NAD83/BN) Kentucky Single Zone and in US Survey Feet. The Geoid Model used was GEOID12A.

COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8803	

SCALE: 1"=500'

COORDINATE CONTROL SHEET SECTIONS A&B

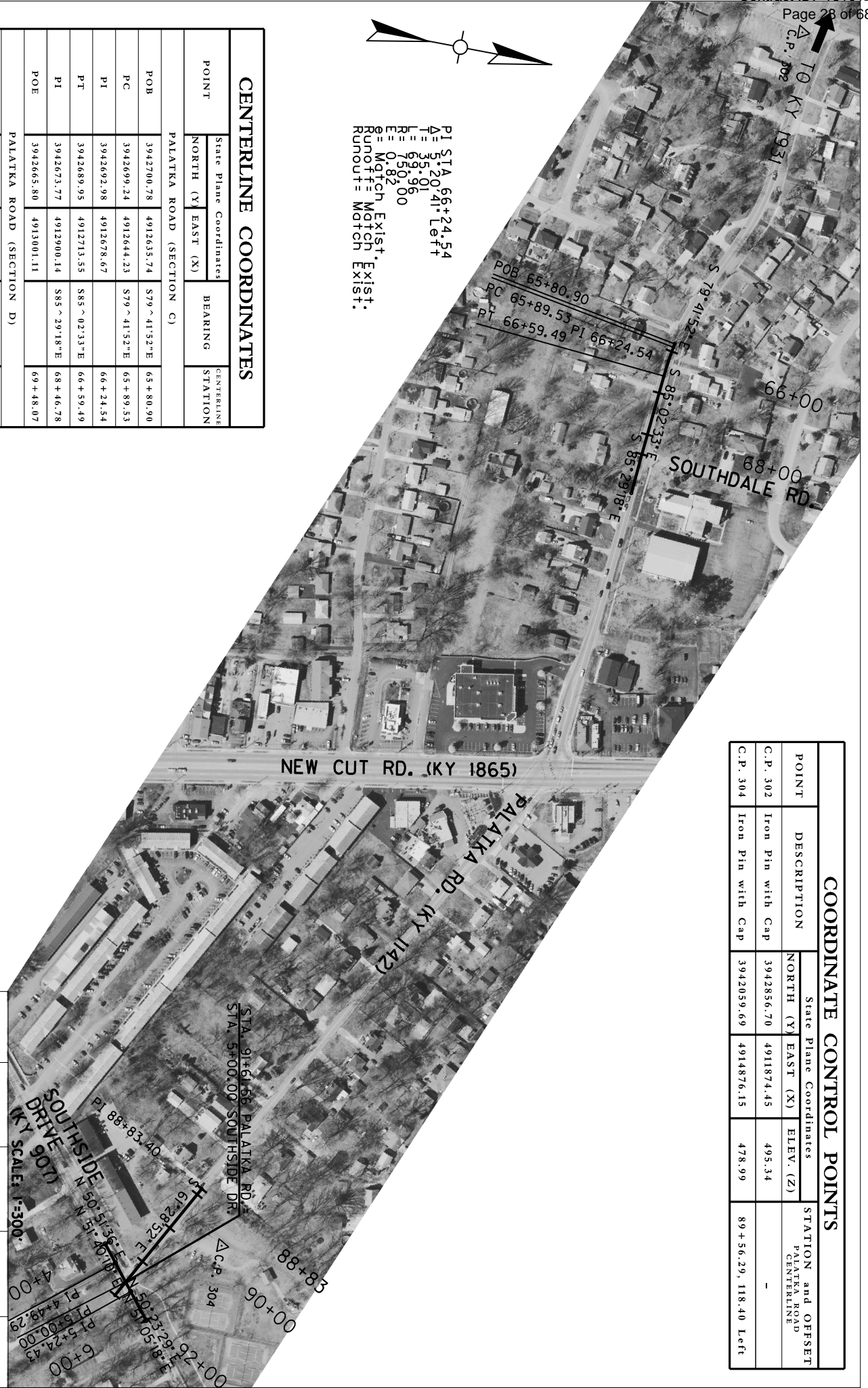
PALATKA ROAD (KY 1142)



PI STA. 66+24.54
 Δ = 5.20' 41" Left
 T = 35.01'
 L = 69.96'
 R = 750.00'
 E = 0.82'
 e = Match Exist.
 e = Match Exist.
 Runout = Match Exist.

CENTERLINE COORDINATES			
POINT	State Plane Coordinates		CENTERLINE STATION
	NORTH (Y)	EAST (X)	
PALATKA ROAD (SECTION C)			
POB	3942700.78	4912635.74	S79 ~ 41°52'E 65 + 80.90
PC	3942699.24	4912644.23	S79 ~ 41°52'E 65 + 89.53
PI	3942692.98	4912678.67	66 + 24.54
PT	3942689.95	4912713.55	S85 ~ 02°33'E 66 + 59.49
PI	3942673.77	4912900.14	S85 ~ 29°18'E 68 + 46.78
POE	3942665.80	4913001.11	69 + 48.07
PALATKA ROAD (SECTION D)			
POB	3941990.46	4914755.57	S61 ~ 28°52'E 88 + 83.40
POE	3941835.11	4915041.48	92 + 08.78
SOUTHSIDE DRIVE			
POB	3941795.09	4914921.98	N50 ~ 51°36'E 4 + 00.00
PI	3941826.20	4914960.21	N51 ~ 40°10'E 4 + 49.29
PI	3941857.65	4914999.99	N50 ~ 23°29'E 5 + 00.00
PT	3941873.23	4915018.81	N51 ~ 05°18'E 5 + 24.43
POE	3941941.33	4915103.17	6 + 32.85

COORDINATE CONTROL POINTS				
POINT	DESCRIPTION	State Plane Coordinates		STATION and OFFSET PALATKA ROAD CENTERLINE
		NORTH (Y)	EAST (X)	
C.P. 302	Iron Pin with Cap	3942856.70	4911874.45	495.34
C.P. 304	Iron Pin with Cap	3942059.69	4914876.15	478.99
				89 + 56.29, 118.40 Left

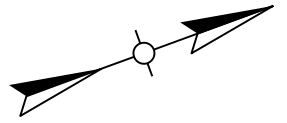


PROJECT COORDINATES

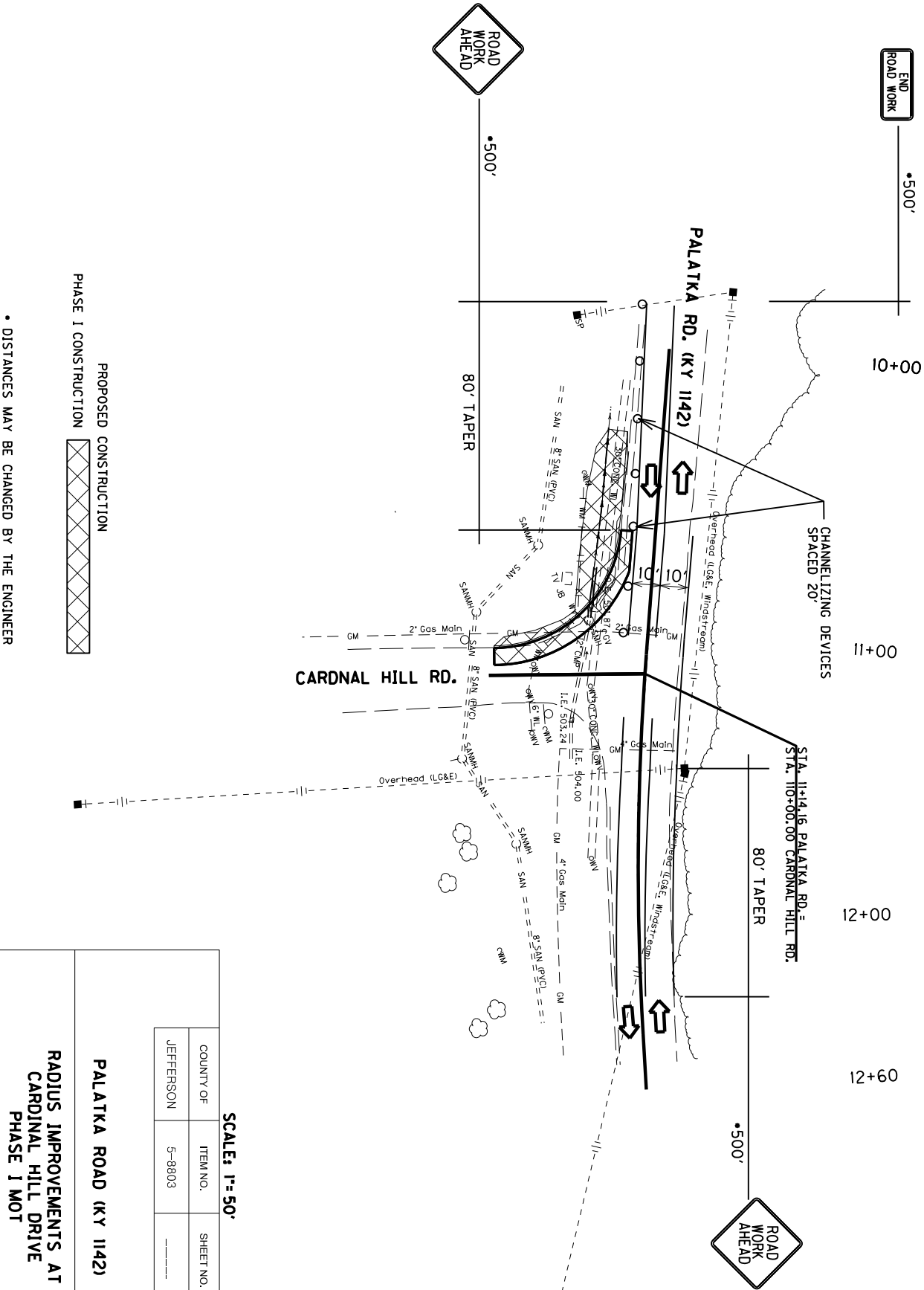
Horizontal coordinates on control point 2 was obtained from an OPUS solution dated May 29, 2014. Horizontal coordinates are based on the NAD83/BN system. The basis of elevations was also used by this solution and is based on the NAVD88 vertical datum. These coordinates are State Plane Coordinates (NAD83/FBN) Kentucky Single Zone and in US Survey Feet. The Geoid Model used was GEOID12A.

COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8803	

PALATKA ROAD (KY 1142)
 COORDINATE CONTROL SHEET SECTIONS C&D



PHASE I:
DITCH AS SHOWN AND INSTALL
REGRADE PIPE AND OUTLET.
REMOVE EXISTING PAVEMENT IN AREA SHOWN
AND REPLACE WITH FULL-DEPTH PAVEMENT.



• DISTANCES MAY BE CHANGED BY THE ENGINEER

PROPOSED CONSTRUCTION

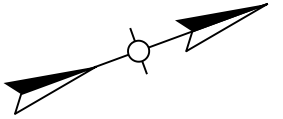


SCALE: 1"=50'

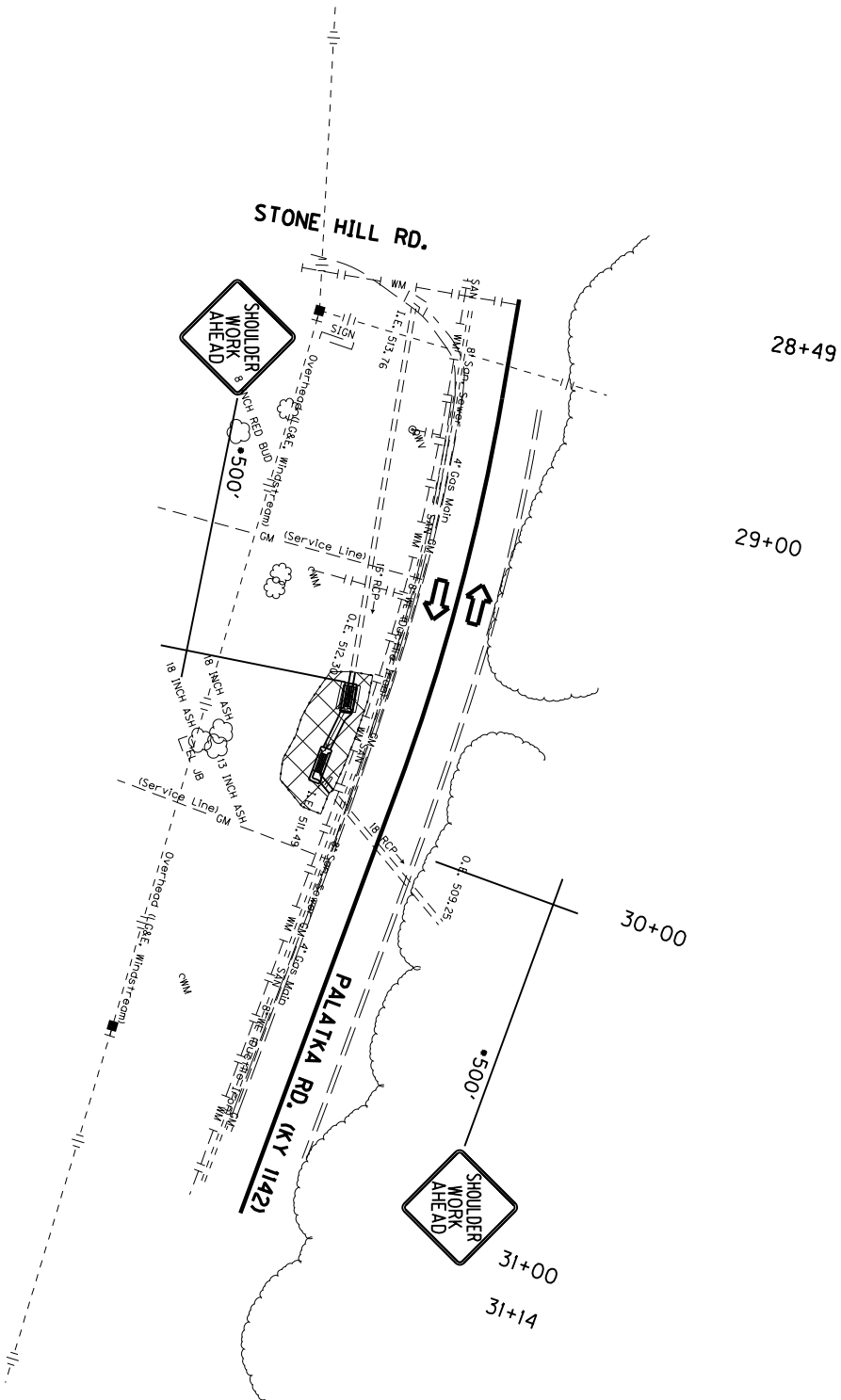
COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8803	

PALATKA ROAD (KY 1142)

**RADIUS IMPROVEMENTS AT
CARDINAL HILL DRIVE
PHASE I MOT**



**PHASE I:
REGRADE DITCH AS SHOWN AND INSTALL
PROPOSED PIPE AND DRAINAGE BOXES.**



PROPOSED CONSTRUCTION

PHASE I CONSTRUCTION

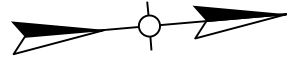
• DISTANCES MAY BE CHANGED BY THE ENGINEER

SCALE: 1"=50'

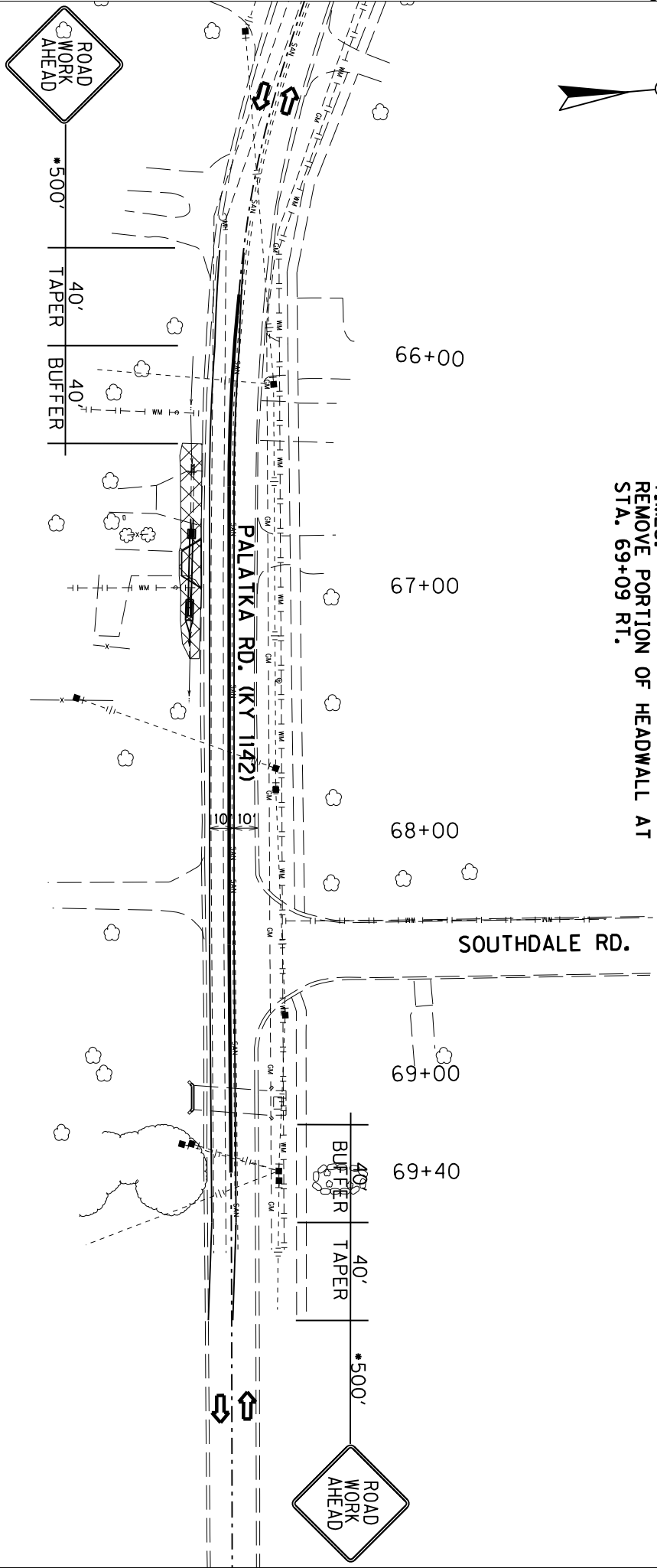
COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8803	

PALATKA ROAD (KY 1142)

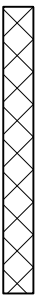
DRAINAGE IMPROVEMENTS
RIGHT STA. 29+65.16 - STA. 29+97.46
PHASE I MOT



PHASE I:
REGRADE DITCH AS SHOWN AND INSTALL
PROPOSED DRAINAGE STRUCTURES.
MAINTAIN ACCESS TO PROPERTIES AT ALL
TIMES.
REMOVE PORTION OF HEADWALL AT
STA. 69+09 RT.



PROPOSED CONSTRUCTION
PHASE I CONSTRUCTION



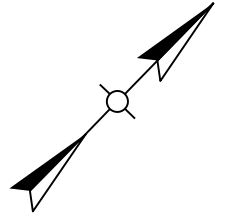
• DISTANCES MAY BE CHANGED BY THE ENGINEER

SCALE: 1"=60'

COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8803	

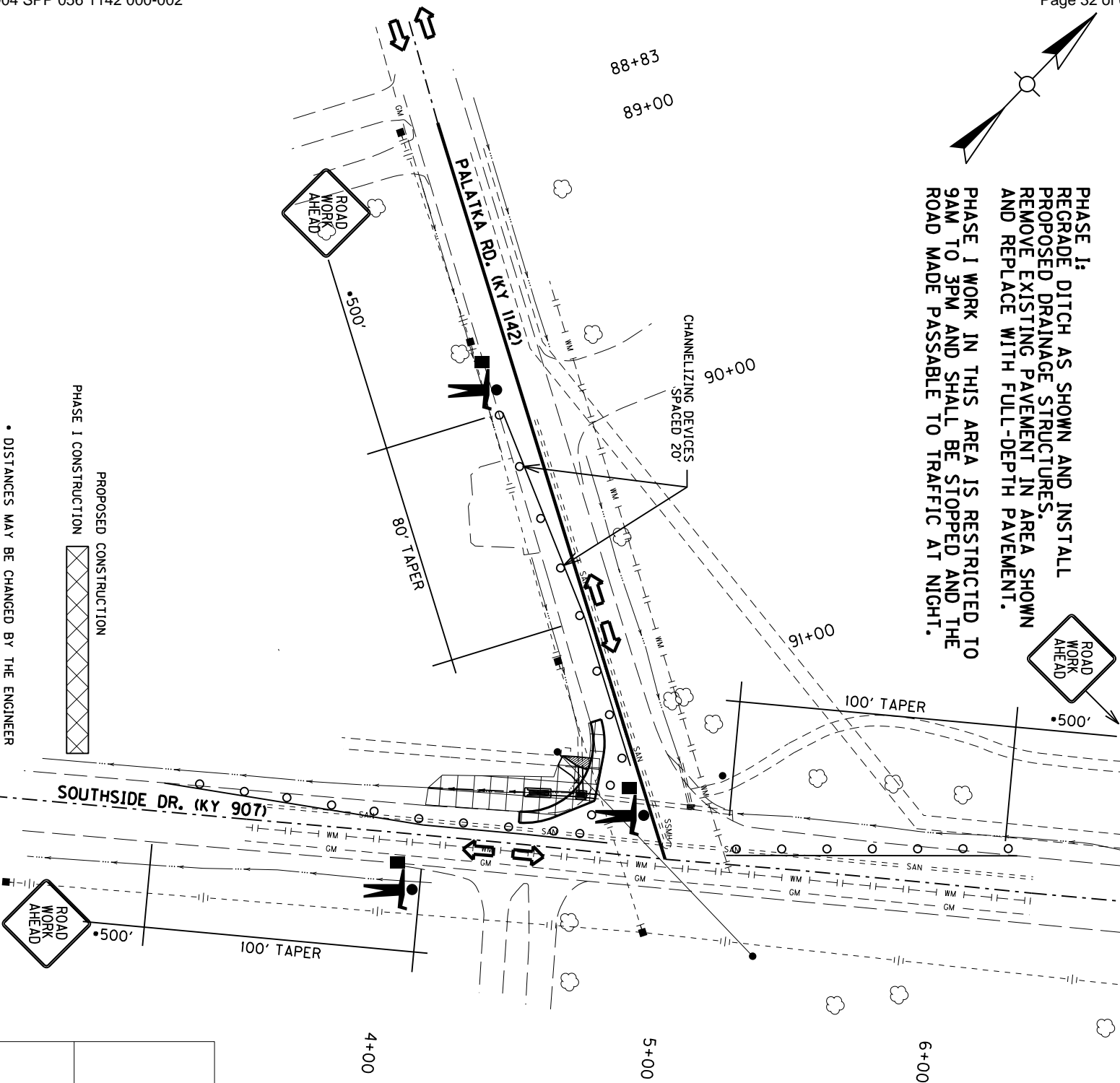
PALATKA ROAD (KY 1142)

DRAINAGE IMPROVEMENTS
RIGHT STA. 66+43.90 - STA. 67+29.86
PHASE I MOT



PHASE I:
REGRADE DITCH AS SHOWN AND INSTALL
PROPOSED DRAINAGE STRUCTURES.
REMOVE EXISTING PAVEMENT IN AREA SHOWN
AND REPLACE WITH FULL-DEPTH PAVEMENT.

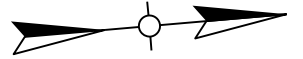
PHASE I WORK IN THIS AREA IS RESTRICTED TO
9AM TO 3PM AND SHALL BE STOPPED AND THE
ROAD MADE PASSABLE TO TRAFFIC AT NIGHT.



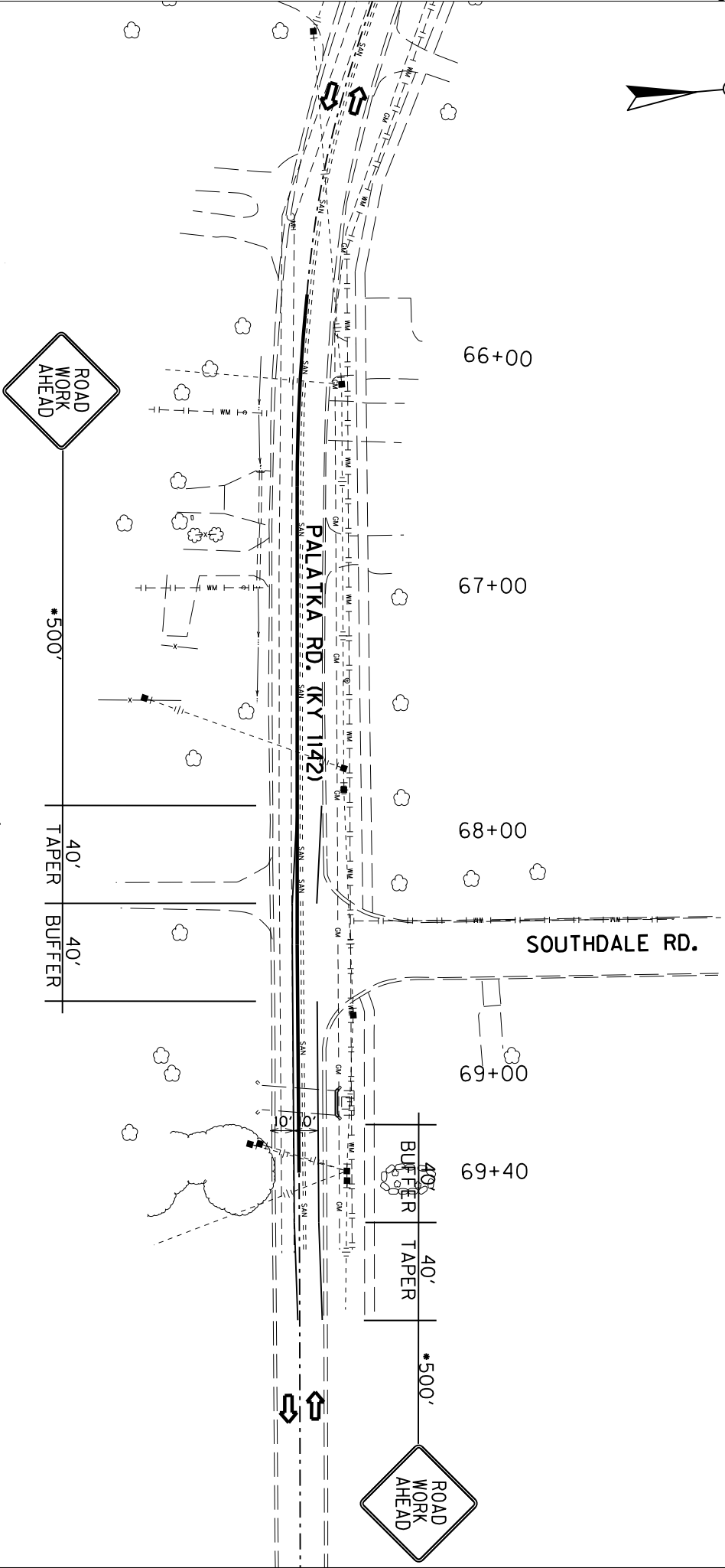
• DISTANCES MAY BE CHANGED BY THE ENGINEER

PROPOSED CONSTRUCTION
PHASE I CONSTRUCTION

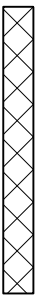
SCALE: 1"=50'		
COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8803	
PALATKA ROAD (KY 1142)		
RADIUS IMPROVEMENTS AT SOUTHSIDE DRIVE PHASE I MOT		



**PHASE II:
REMOVE PORTION OF HEADWALL AT
STA. 69+12 LT.**



PROPOSED CONSTRUCTION
 PHASE I CONSTRUCTION



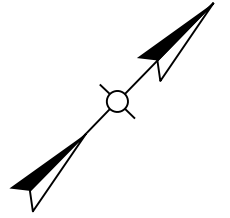
• DISTANCES MAY BE CHANGED BY THE ENGINEER

SCALE: 1"=60'

COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8803	

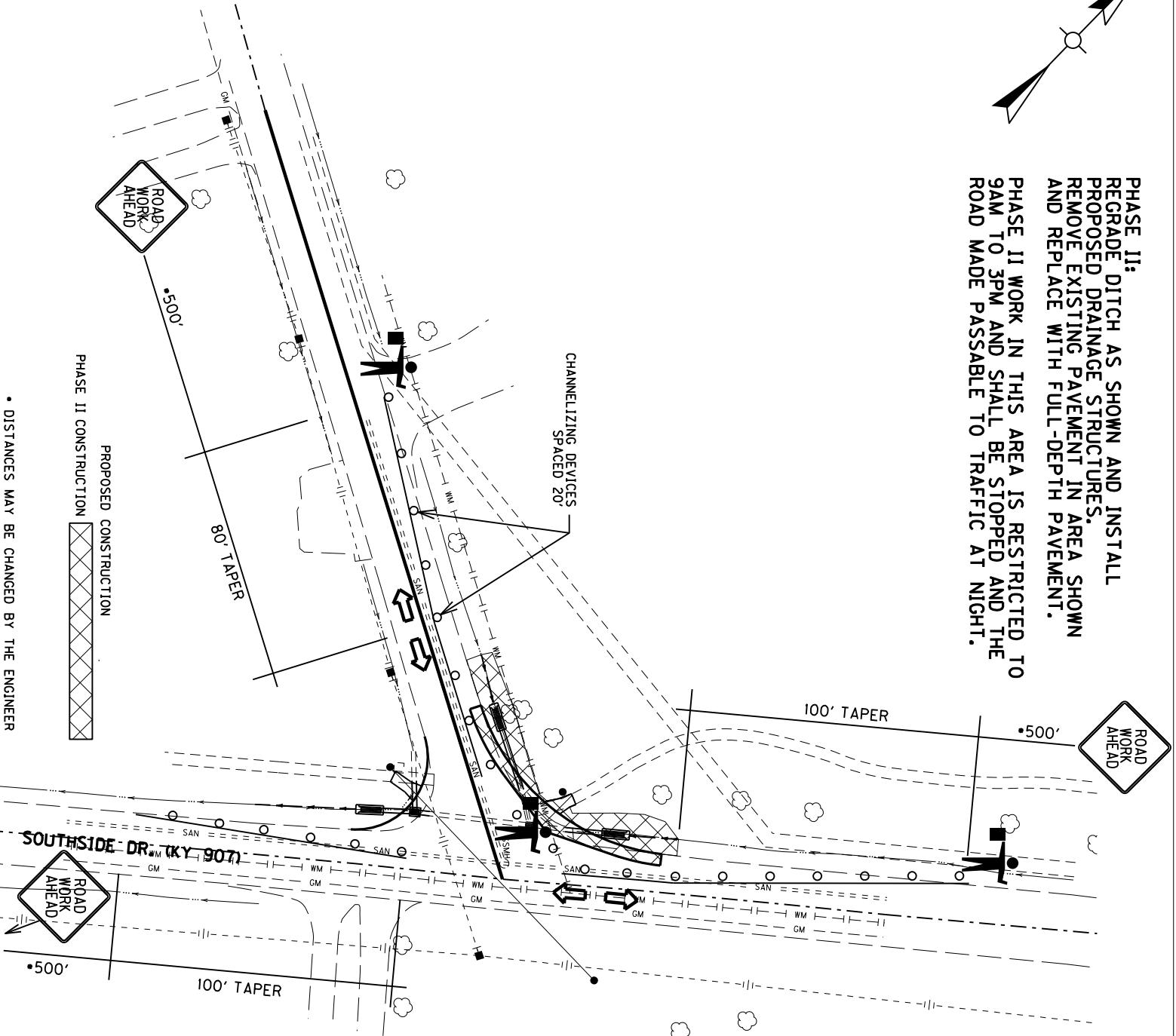
PALATKA ROAD (KY 1142)

**CLEARZONE IMPROVEMENTS
 LEFT STA. 69+12
 PHASE II MOT**



PHASE II: DITCH AS SHOWN AND INSTALL REGRADE DRAINAGE STRUCTURES. REMOVE EXISTING PAVEMENT IN AREA SHOWN AND REPLACE WITH FULL-DEPTH PAVEMENT.

PHASE II WORK IN THIS AREA IS RESTRICTED TO 9AM TO 3PM AND SHALL BE STOPPED AND THE ROAD MADE PASSABLE TO TRAFFIC AT NIGHT.



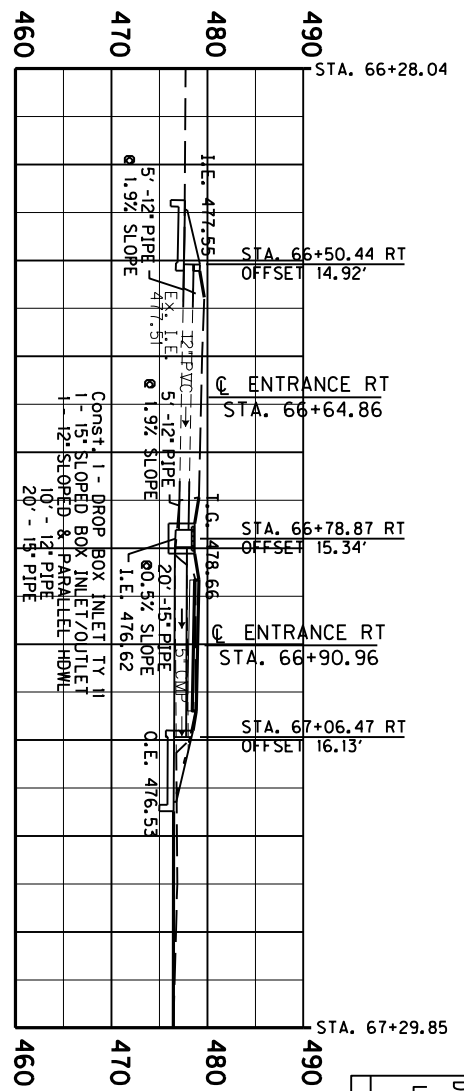
• DISTANCES MAY BE CHANGED BY THE ENGINEER

SCALE: 1" = 50'

COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8803	

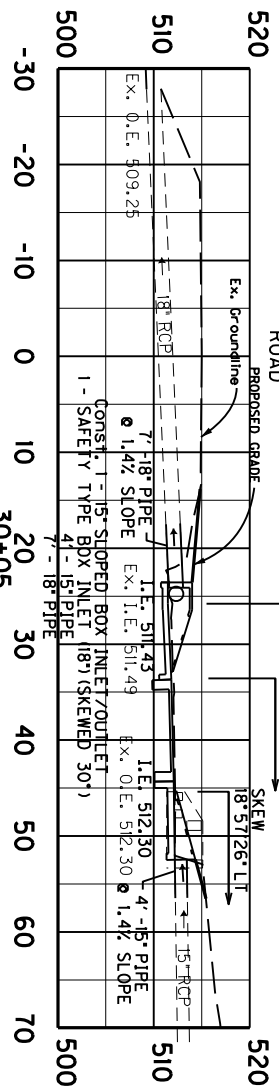
PALATKA ROAD (KY 1142)

RADIUS IMPROVEMENTS AT SOUTHSIDE DRIVE PHASE II MOT



DESIGN PH LEVEL	COVER HEIGHT FEET	S.S. PIPE LF	S.S. PIPE LF	S&P HDWL EA	S&P HDWL EA	DROP BOX INLET TY II EA	SLPD BOX 1/0 EA
MED	1.3	10	20	1	1	1	1

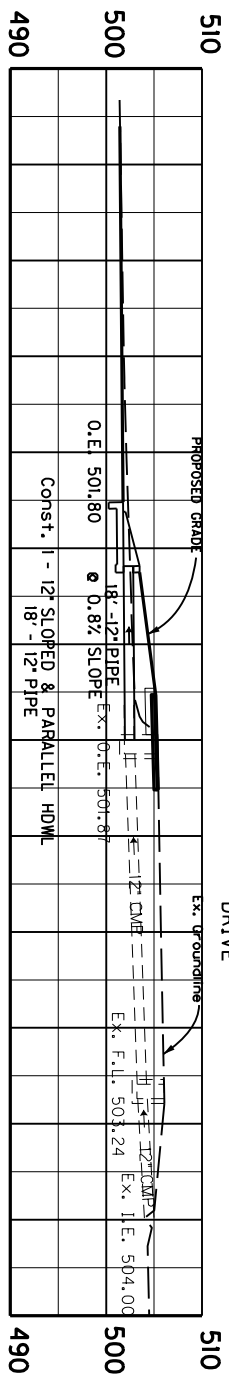
DESIGN PH LEVEL	COVER HEIGHT FEET	S.S. PIPE LF	CULV. PIPE LF	SAFETY TY BOX INLET EA	SAFETY TY BOX INLET EA	SLPD BOX 1/0 EA
MED	1.9	4	7	1	1	1



DESIGN PH LEVEL	COVER HEIGHT FEET	S.S. PIPE LF	S&P HDWL EA
MED	2.3	18	1

Skew 29°58'58\"/>

CARDINAL HILL DRIVE



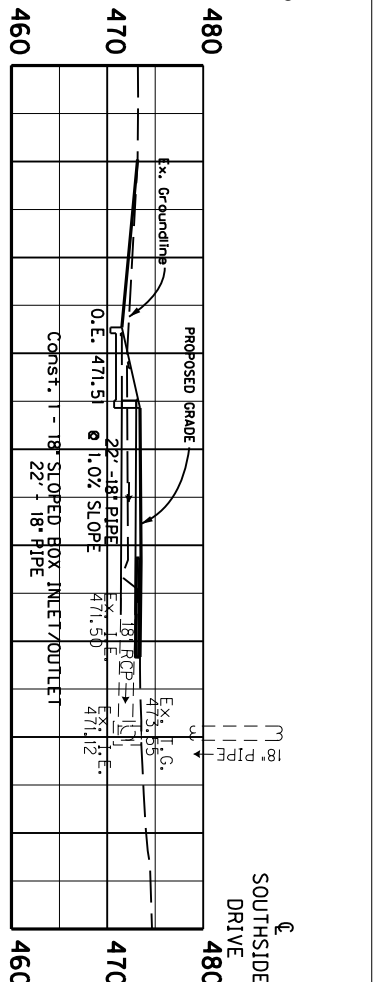
Skew 9°20'17\"/>

SCALE: 1\"/>

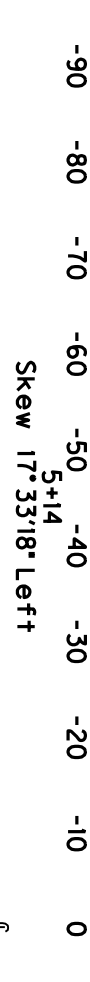
COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8803	

PALATKA ROAD (KY 1142)

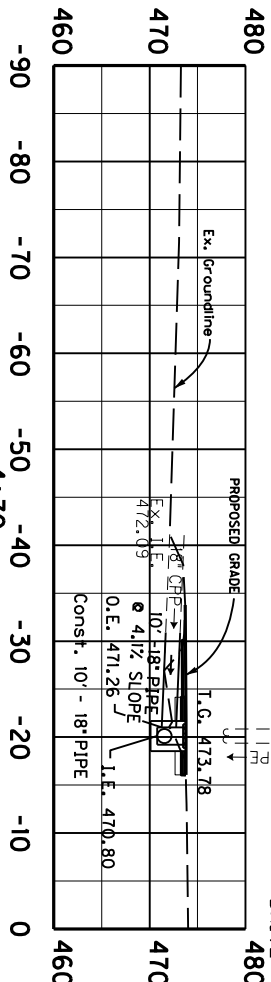
PALATKA RD & CARDINAL HILL DRIVE
& DRAINAGE IMPROVEMENTS
PIPE SECTIONS



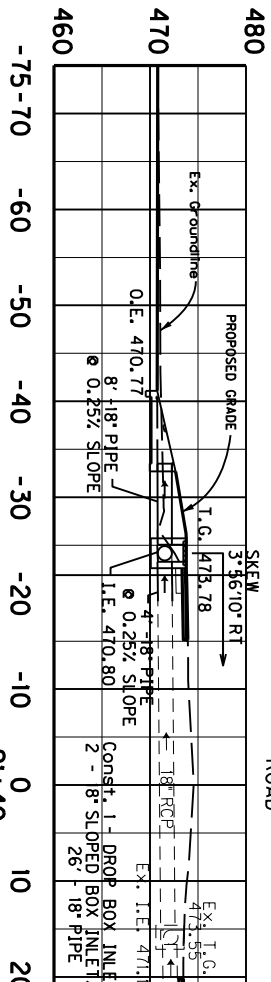
DESIGN PH LEVEL	COVER HEIGHT FEET	S.S. PIPE LF	SLPD BOX I/O LF
MED	0.6	22	1



DESIGN PH LEVEL	COVER HEIGHT FEET	S.S. PIPE LF
MED	1.5	10



DESIGN PH LEVEL	COVER HEIGHT FEET	S.S. PIPE LF	SLPD BOX I/O LF	DROP BOX INLET TY II EA
MED	1.5	26	2	1



DESIGN PH LEVEL	COVER HEIGHT FEET	S.S. PIPE LF	SLPD BOX I/O LF	DROP BOX INLET TY II EA
MED	0.6	22	1	1

SCALE: 1"=20'

COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8803	

PALATKA ROAD (KY 1142)

PALATKA RD & SOUTHSIDE DRIVE

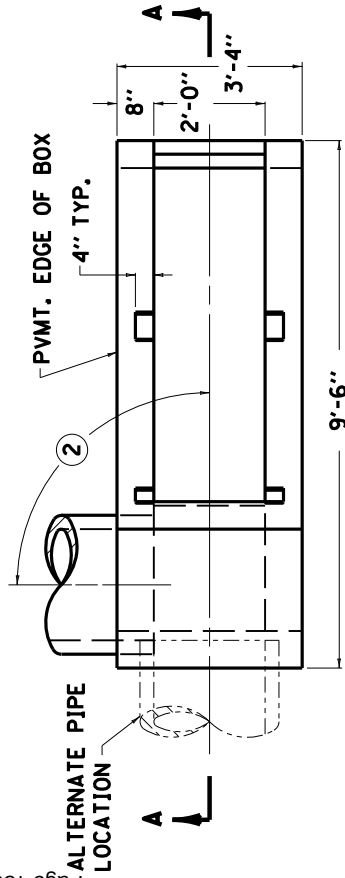
PIPE SECTIONS

COUNTY OF	ITEM NO.	SHEET

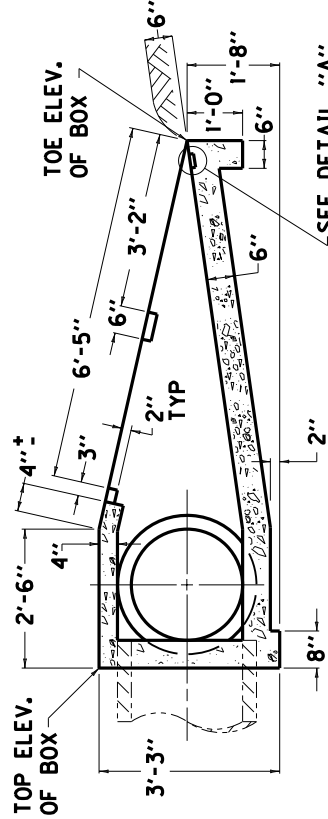
NOTES

- | | | |
|-----------|--------------------------------|------|
| ITEM CODE | BID ITEM | UNIT |
| 1726 | SAFETY BOX INLET-18 INCH SDB-1 | EACH |
| 1727 | SAFETY BOX INLET-24 INCH SDB-1 | EACH |
- THE UNIT BID FOR EACH STRUCTURE SHALL INCLUDE ALL CONCRETE, STRUCTURAL STEEL GRATING, EXCAVATION, LABOR AND INCIDENTALS NECESSARY FOR ITS CONSTRUCTION AS DETAILED ON THIS SHEET.
- ① TOE OF BOX SHALL BE RAISED OR LOWERED TO FIT EXISTING FIELD CONDITIONS.
 ② SKEW OF BOX SHALL VARY TO FIT EXISTING FIELD CONDITIONS.

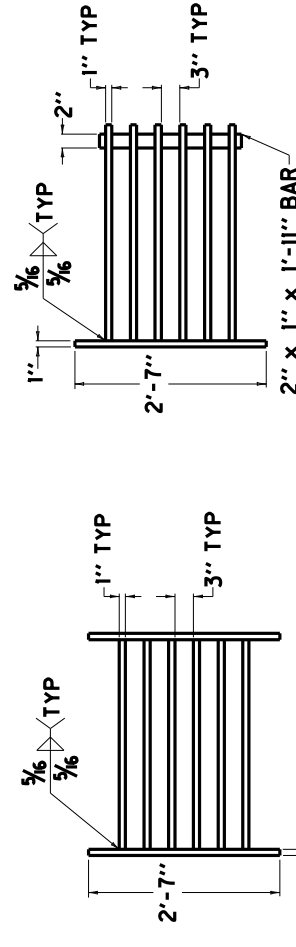
APPROXIMATE QUANTITIES			
CLASS "A"	GRATE	LBS. STRUCTURAL STEEL	TOTAL POUNDS
CUBIC YARDS	NUMBER	EACH GRATE	
1.44	1	145	298
	2	153	



PLAN VIEW



SECTION A-A



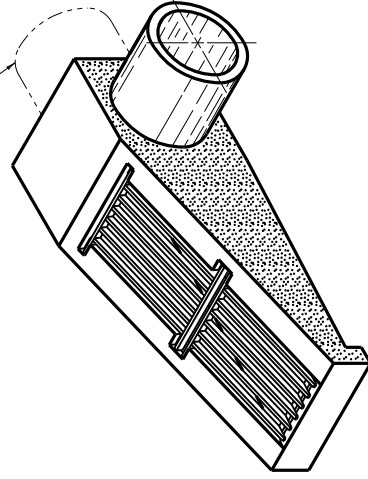
**GRATE NO. 1
 PLAN VIEW**

**GRATE NO. 1
 SIDE ELEVATION**

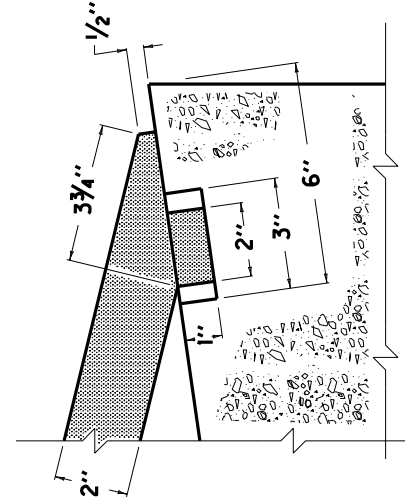
**GRATE NO. 2
 PLAN VIEW**

**GRATE NO. 2
 SIDE ELEVATION**

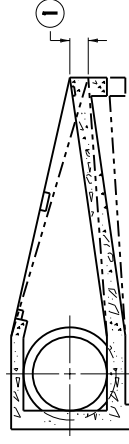
ALTERNATE PIPE LOCATION



ISOMETRIC VIEW



DETAIL "A"



SECTIONAL VIEW

KENTUCKY
 DEPARTMENT OF HIGHWAYS

**SAFETY TYPE
 BOX INLET
 (18" OR 24")**

Contract No. 05-043208
 Page 37 of 60
 APPROVED: [Signature]
 PROJECT ENGINEER

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

TOTAL UNITS	CODE	ITEM DESCRIPTION
20	LIN FT 4792	CONDUIT 1 INCH
3	EACH 4811	ELECTRICAL JUNCTION BOX TYPE B
50	LIN FT 4820	TRENCHING AND BACKFILLING
895	LIN FT 4830	LOOP WIRE
1,275	LIN FT 4844	CABLE-NO. 14/5C
75	LIN FT 4850	CABLE-NO. 14/1 PAIR
4	EACH 4884	ANCHOR
420	LIN FT 4885	MESSENGER-10800 LB
350	LIN FT 4895	LOOP SAW SLOT AND FILL
2	EACH 4932	INSTALL STEEL STRAIN POLE
1	EACH 249556d	REMOVE SIGNAL EQUIPMENT
2	EACH 20093NS835	INSTALL PEDESTRIAN HEAD LED
16	EACH 20094ES835	TEMPORARY RELOCATION OF SIGNAL HEAD
8	EACH 20188NS835	INSTALL SIGNAL-3 SECTION LED
1	EACH 20390NS835	INSTALL COORDINATING UNIT
2	EACH 21743NN	INSTALL PEDESTRIAN DETECTOR
9	CU YD 23157EN	TRAFFIC SIGNAL POLE BASE
50	LIN FT 24900EC	PVC CONDUIT - 1 1/4 INCH - SCHEDULE 80
40	SOYD 2720	SIDEWALK-4 IN CONCRETE
55	SOFT 231585505	DETECTABLE WARNINGS

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 723

SUBSECTION:
REVISION:
04-22 REMOVE SIGNAL EQUIPMENT. (CONSTRUCTION ONLY)
REPLACE THE PARAGRAPH WITH THE FOLLOWING: BY EACH, THE DEPARTMENT WILL NOT MEASURE BACKFILLING AND THE DISPOSAL OR TRANSPORTATION OF EQUIPMENT AND MATERIALS ASSOCIATED WITH ANY STRUCTURAL OR ELECTRICAL COMPONENT OF THE SIGNAL SYSTEM INCLUDING, BUT NOT LIMITED TO POLE BASES, POLES, JUNCTION BOXES, CABINETS, AND WOOD POLES FOR PAYMENT 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 SERIAL 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 (502-782-8994/ 502-330-8153 OR EMAIL KIM.STAMPER@KY.GOV) AND ARRANGE TO PICK UP INSTALL ITEMS A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO ARRIVAL. THE CONTRACTOR SHALL ALSO CONTACT THE SIGNAL SYSTEM BRANCH (502-782-5543/502-782-5547 OR EMAIL JOE.THOMPSON@KY.GOV/ LARRY.IRISH@KY.GOV) TO ARRANGE PROGRAMMING OF THE ROUTER USED FOR COMMUNICATION IN THE TRAFFIC SIGNAL A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO ARRIVAL. FAILURE TO PROVIDE POLE YARD PERSONNEL/ SIGNAL SYSTEM BRANCH THIS ADVANCE NOTICE COULD RESULT IN LONG DELAYS OR REFUSAL TO DISTRIBUTE EQUIPMENT UPON ARRIVAL.

ADD SENTENCE TO SECTION 835.15: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES : "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

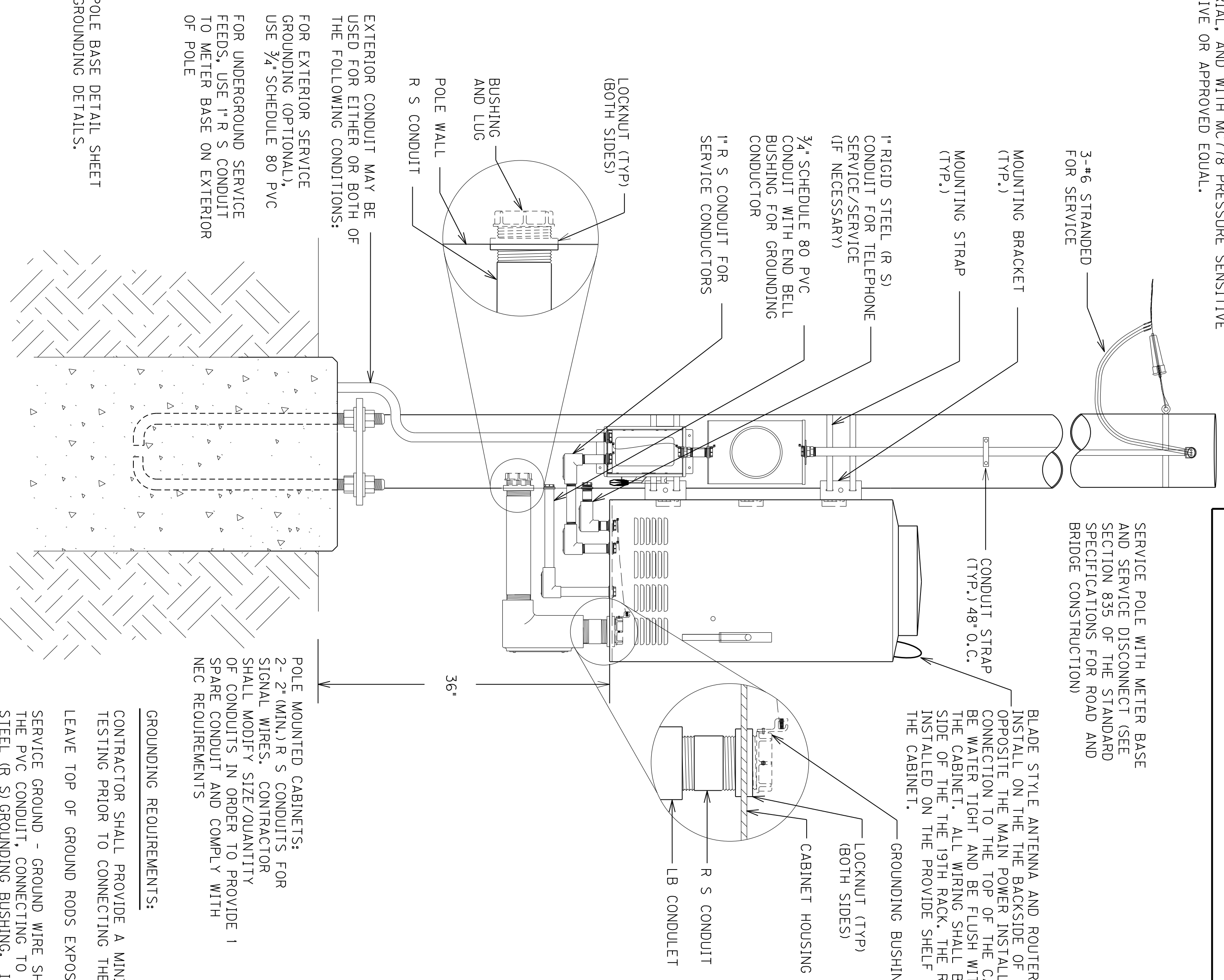
Contract ID: 181012
Page 38 of 68

6-5-2017

DESIGNED BY: CW	DATE SUBMITTED: 3/21/18
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY OF JEFFERSON	
PROJECT NUMBERS: FD04 SPP 056 1142 000-002	TRAFFIC SIGNAL ESTIMATE OF QUANTITIES MEASUREMENT, CONST, AND MISC NOTES

SPECIAL NOTE:
 DISCONNECTS (SAFETY SWITCH) AND METER BASE SHALL BE UL RATED FOR COMMERCIAL USE. DISCONNECTS (SAFETY SWITCH) AND METER BASE SHALL BE ALUMINUM ENCLOSURE. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATED THE MAXIMUM AVAILABLE FAULT CURRENT FOR THE SERVICE EQUIPMENT THAT IS INSTALLED. THE CONTRACTOR SHALL SUPPLY A STICKER THAT WILL BE INSTALLED IN THE DISCONNECT WITH THE SYMMETRICAL RMS AMPERES AND THE DATE THAT THIS FAULT CURRENT IS CALCULATED. THE STICKER SHALL BE 4" LONG AND 4" WIDE AND BE METALCRAFT PLY425 PREM STYLEMARK LABEL (OR APPROVED EQUAL) WITH .007 THICKNESS, WITH UV WHITE POLYCARBONATE MATERIAL, AND WITH MCT78 PRESSURE SENSITIVE ADHESIVE OR APPROVED EQUAL.

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 BETWEEN 4 TO 6 INCHES ABOVE THE CONCRETE PAD, AND THEY CANNOT EXCEED THE 6 INCH HEIGHT.
 SERVICE WIRES FOR BASE MOUNTED CABINETS MAY BE INSTALLED IN FLEXIBLE CONDUIT FROM THE DISCONNECT TO THE 1" 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.

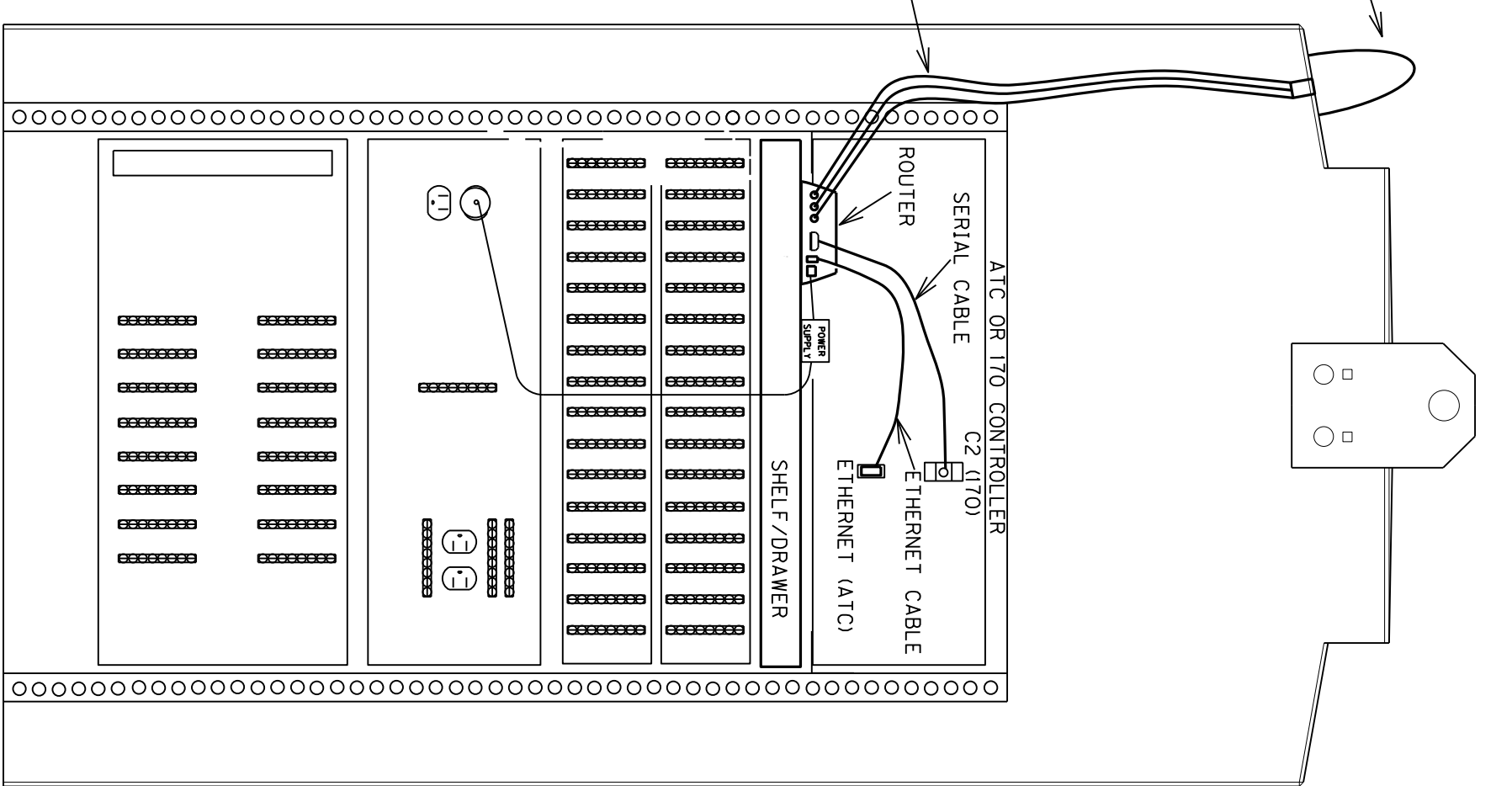
POLE MOUNTED CABINETS:
 2-2" (MIN.) R/S CONDUITS FOR SIGNAL WIRES. CONTRACTOR SHALL MODIFY SIZE/QUANTITY OF CONDUITS IN ORDER TO PROVIDE 1 SPARE CONDUIT AND COMPLY WITH NEC REQUIREMENTS.

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.

ROUTER INSTALLATION (REAR OF CABINET)



STEEL POLE MOUNT ENCLOSURE

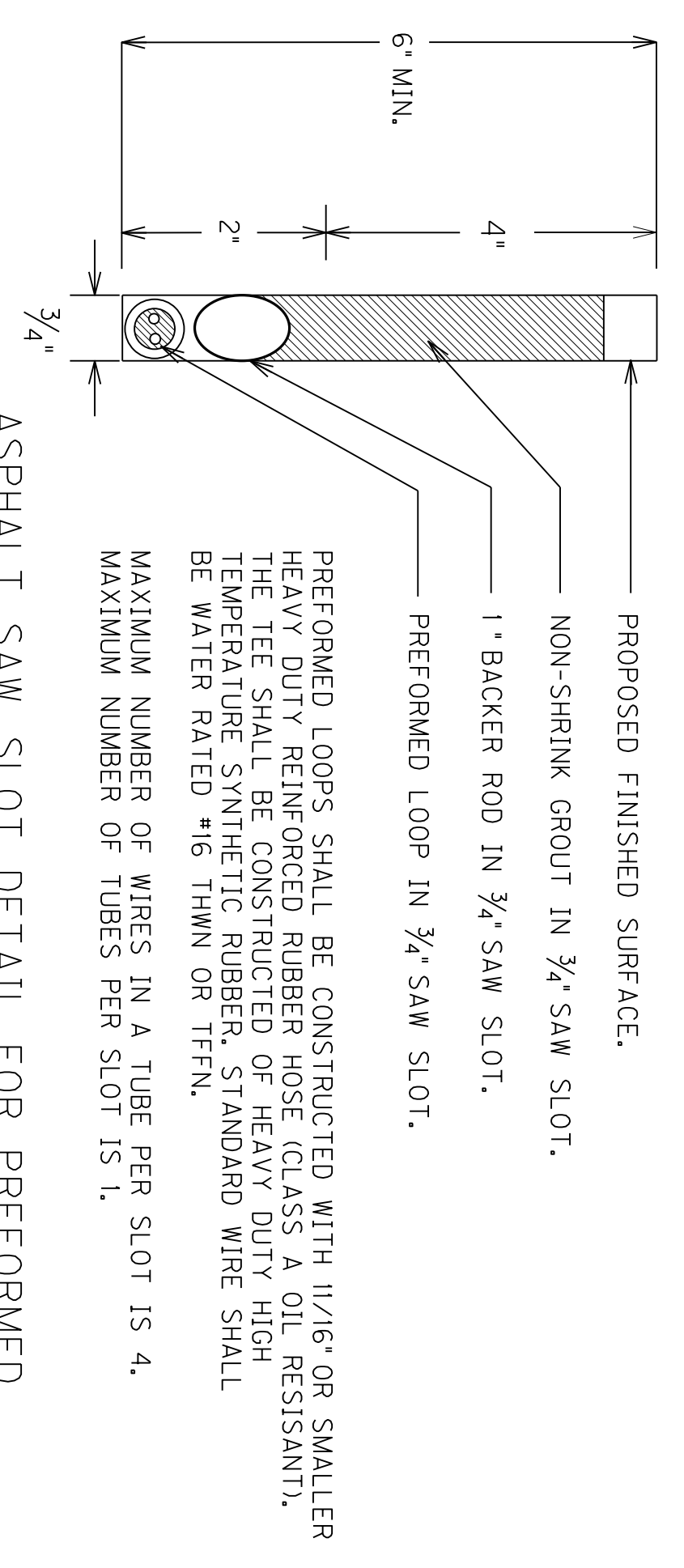
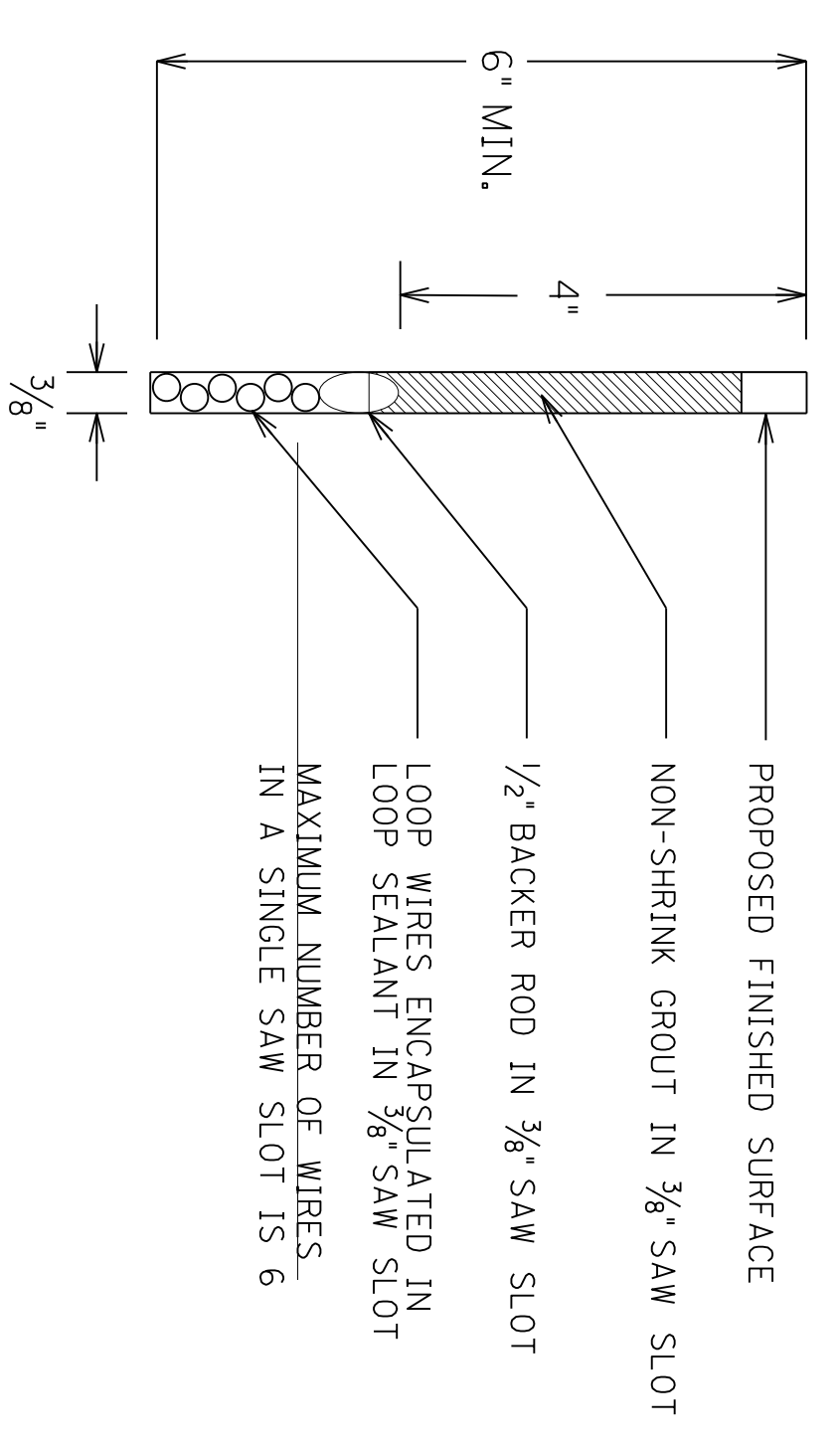
PAD MOUNT ENCLOSURE

CONTROLLER CABINET AND ANTENNA/ROUTER DETAIL

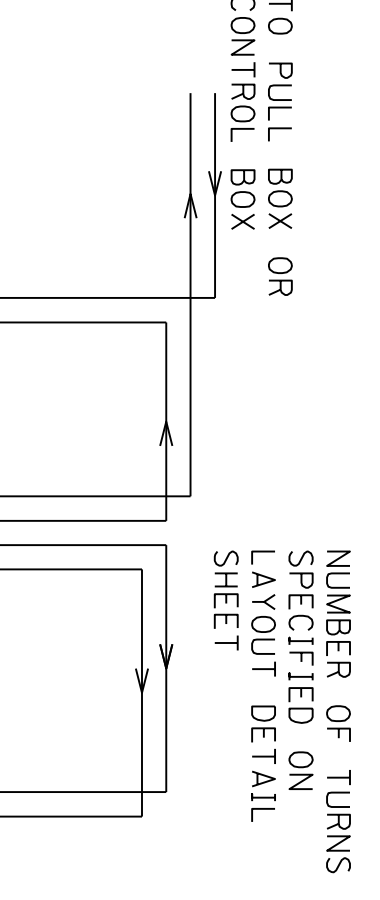
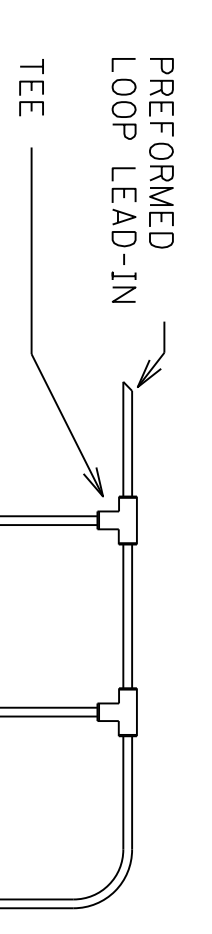
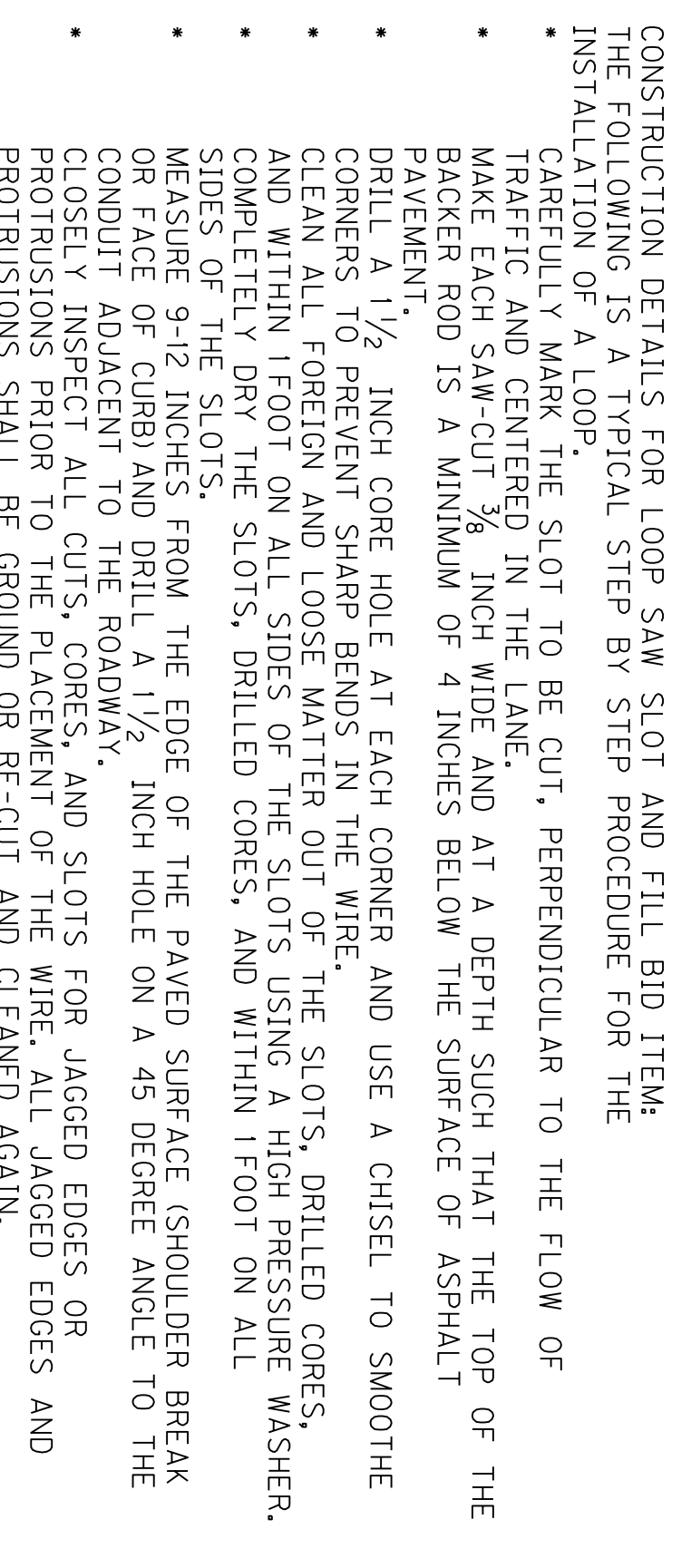
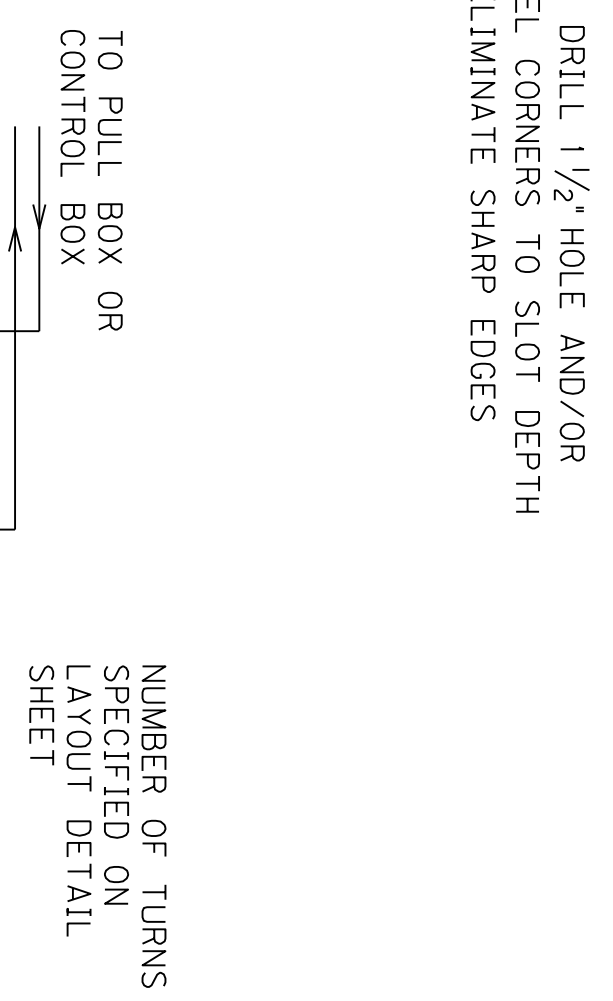
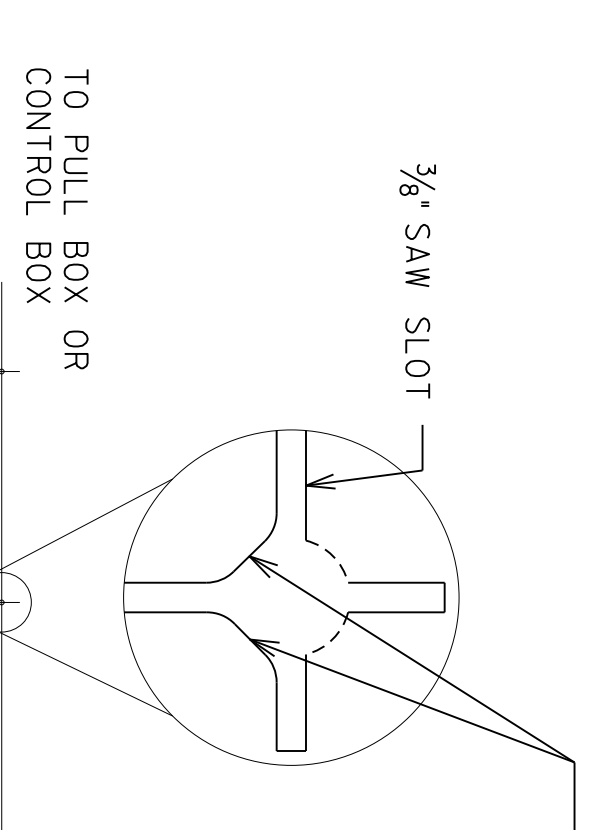
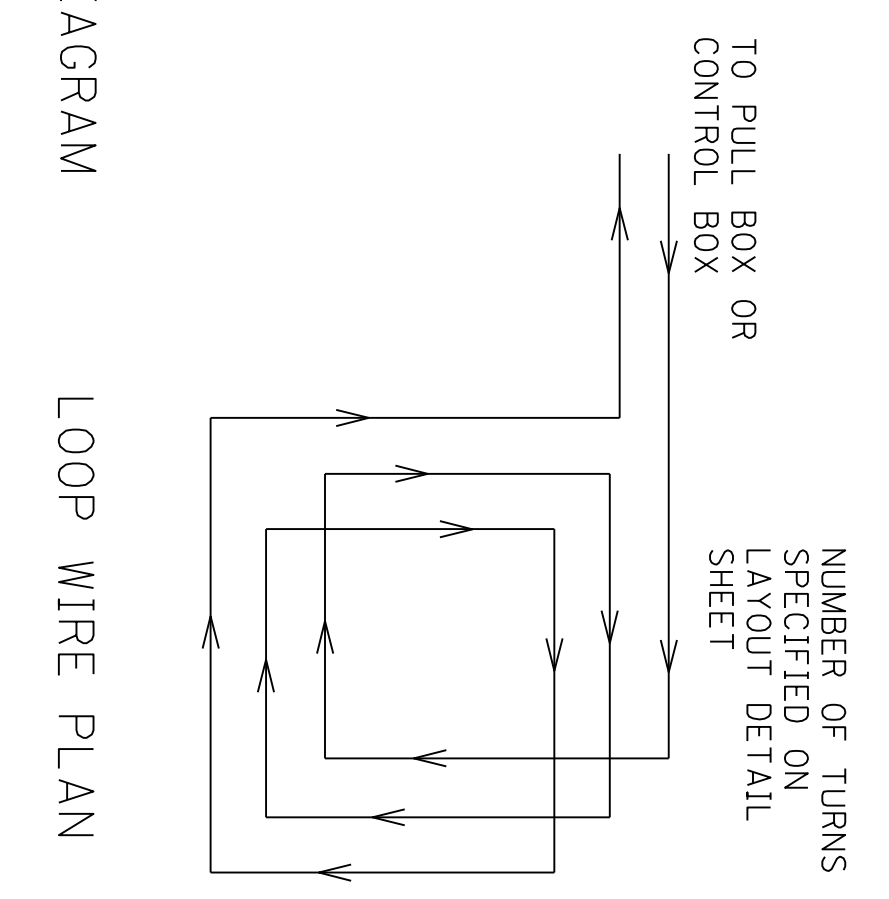
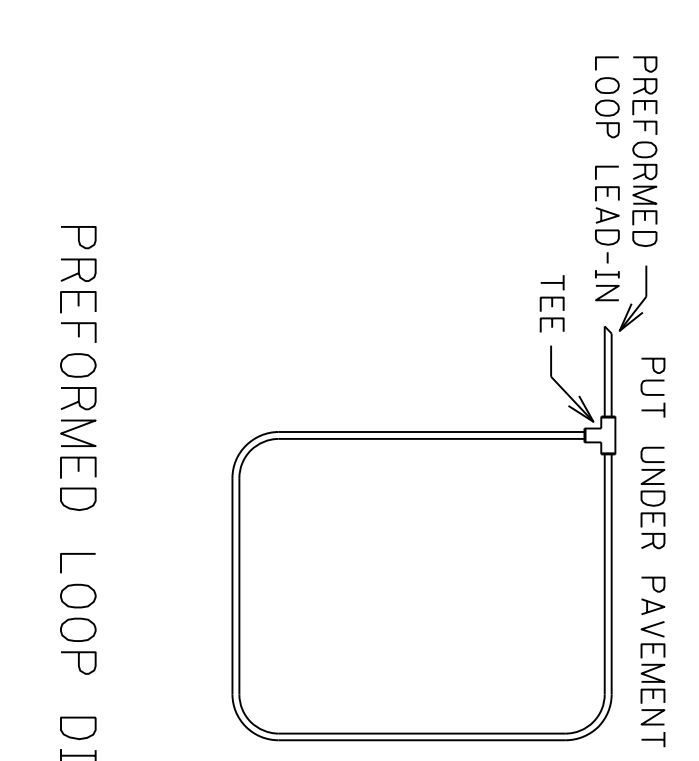
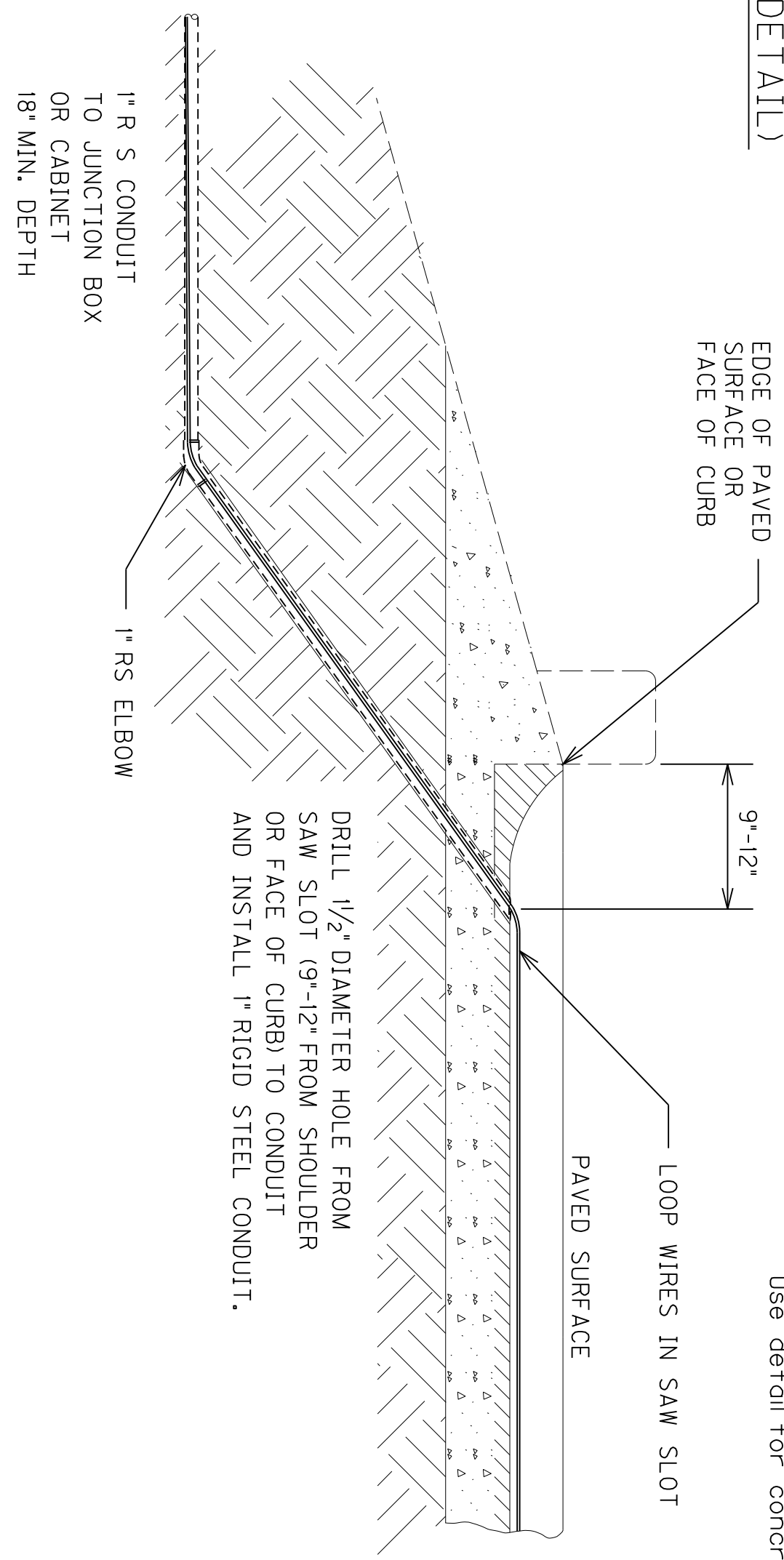
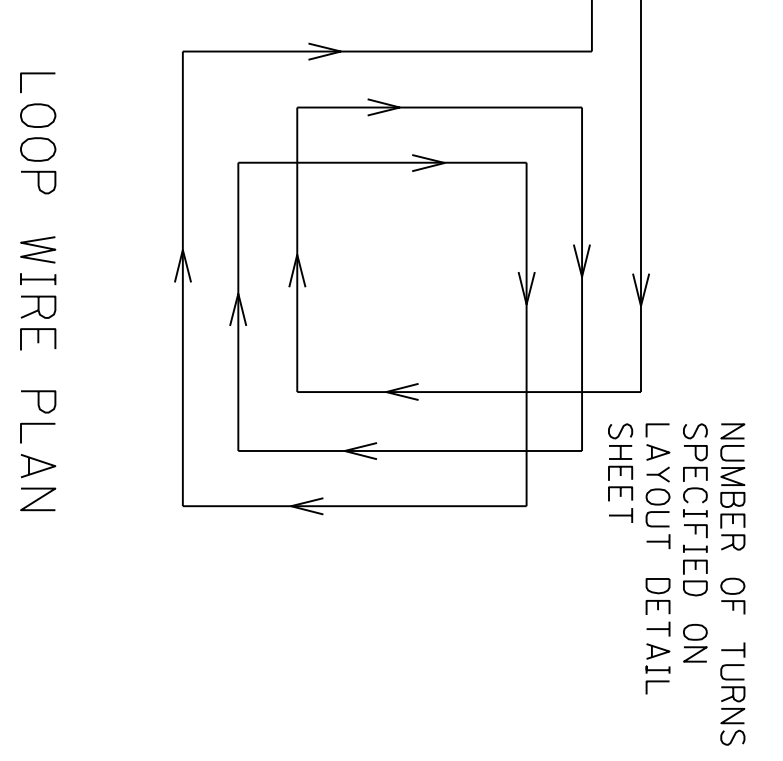
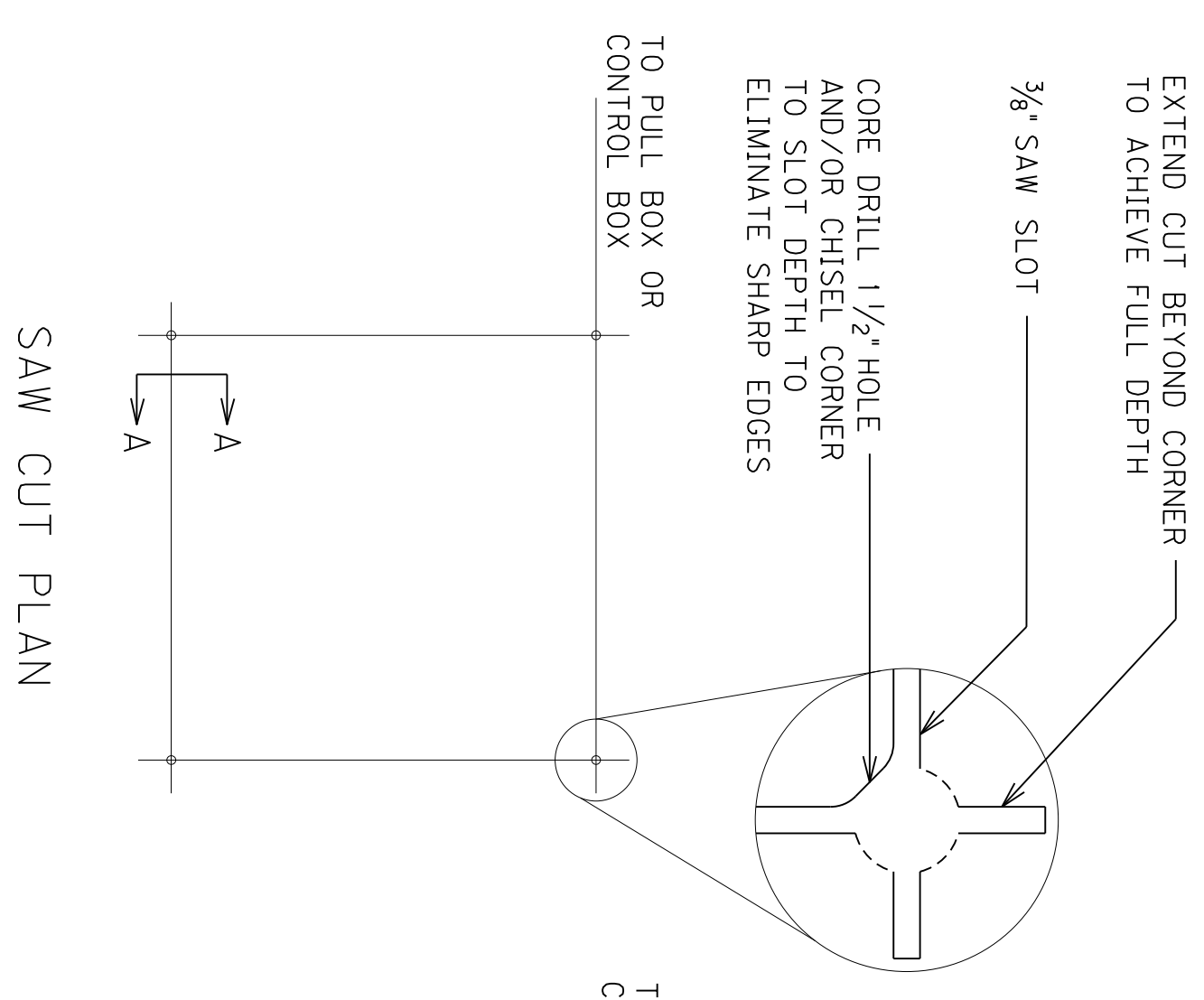
5/30/2017

JEFFERSON COUNTY
 FD04 SFP 056 1142 0000

COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8803.00	12



Use detail for concrete application if concrete is 4" or less



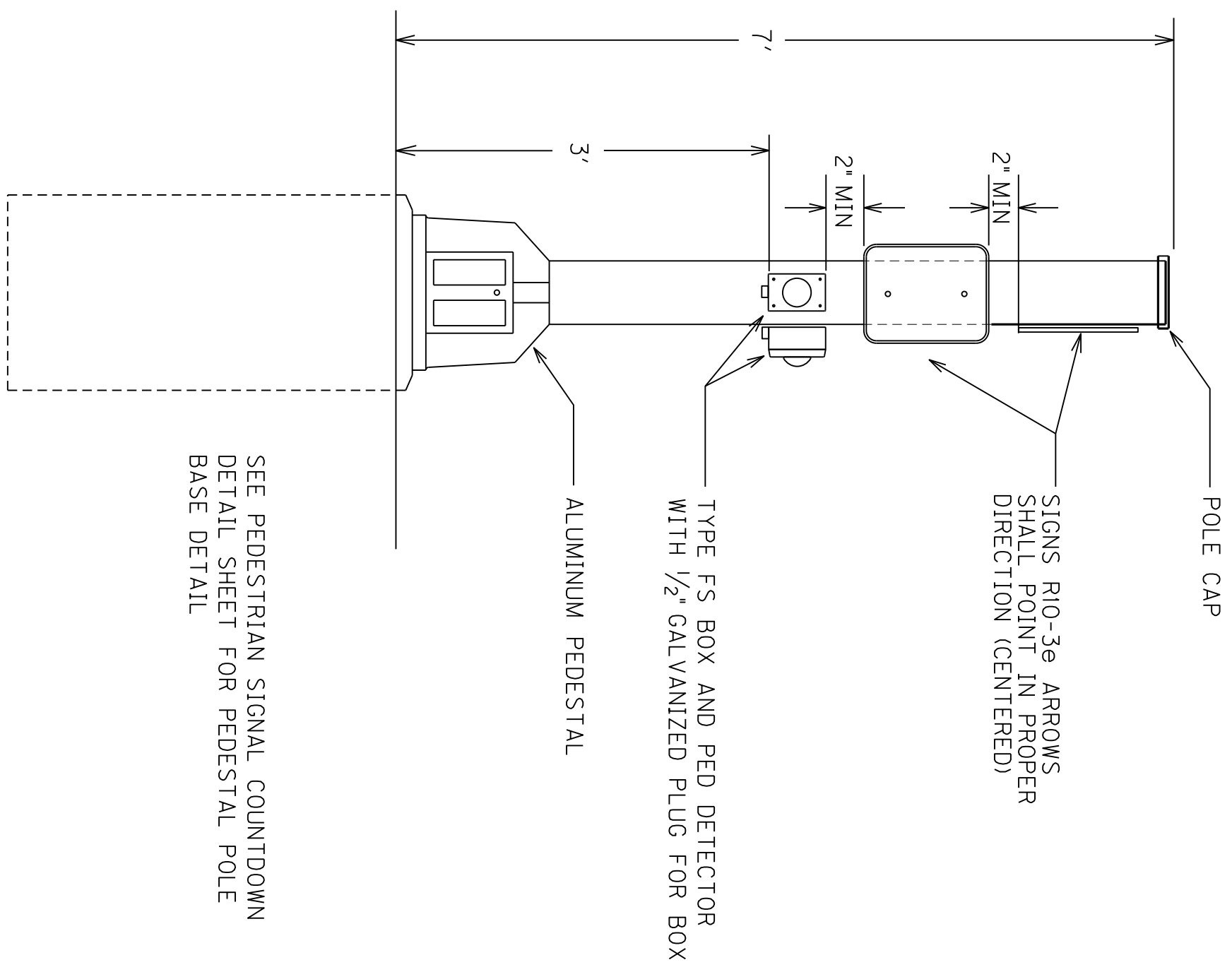
CONSTRUCTION DETAILS FOR LOOP SAW SLOT AND FILL BID ITEM:
 THE FOLLOWING IS A TYPICAL STEP BY STEP PROCEDURE FOR THE INSTALLATION OF A LOOP.
 CAREFULLY MARK THE SLOT TO BE CUT, PERPENDICULAR TO THE FLOW OF TRAFFIC AND CENTERED IN THE LANE.
 MAKE EACH SAW-CUT 3/8 INCH WIDE AND AT A DEPTH SUCH THAT THE 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. ALEVATE 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 ALEVATE 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.

Contract ID: 181012
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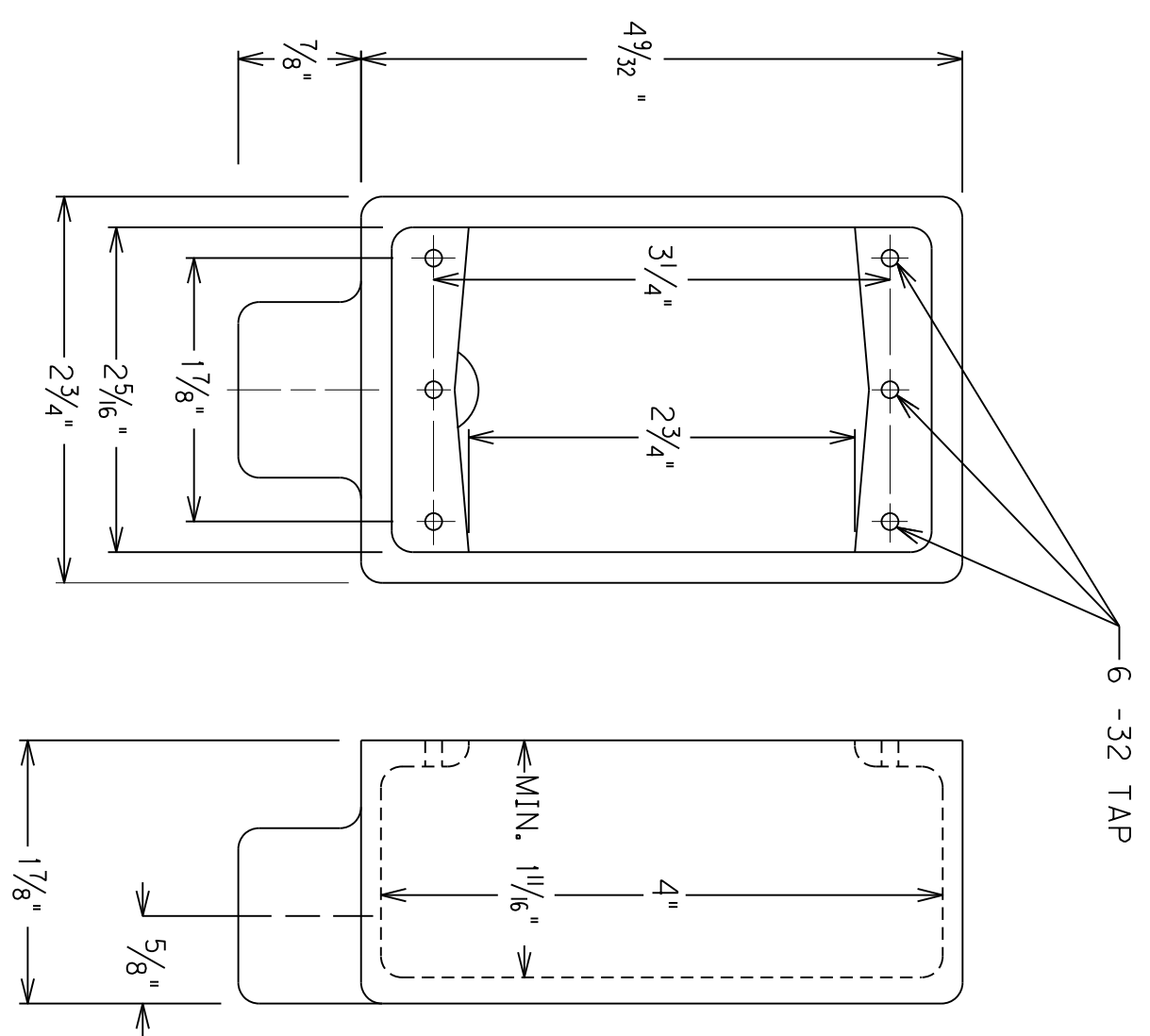
PREFORMED LOOP LEAD-IN SHALL BE TWISTED WITH THREE TO FIVE TURNS PER FOOT UNTIL TERMINATED AT FIELD SHIELDED CABLE.

6/22/2012

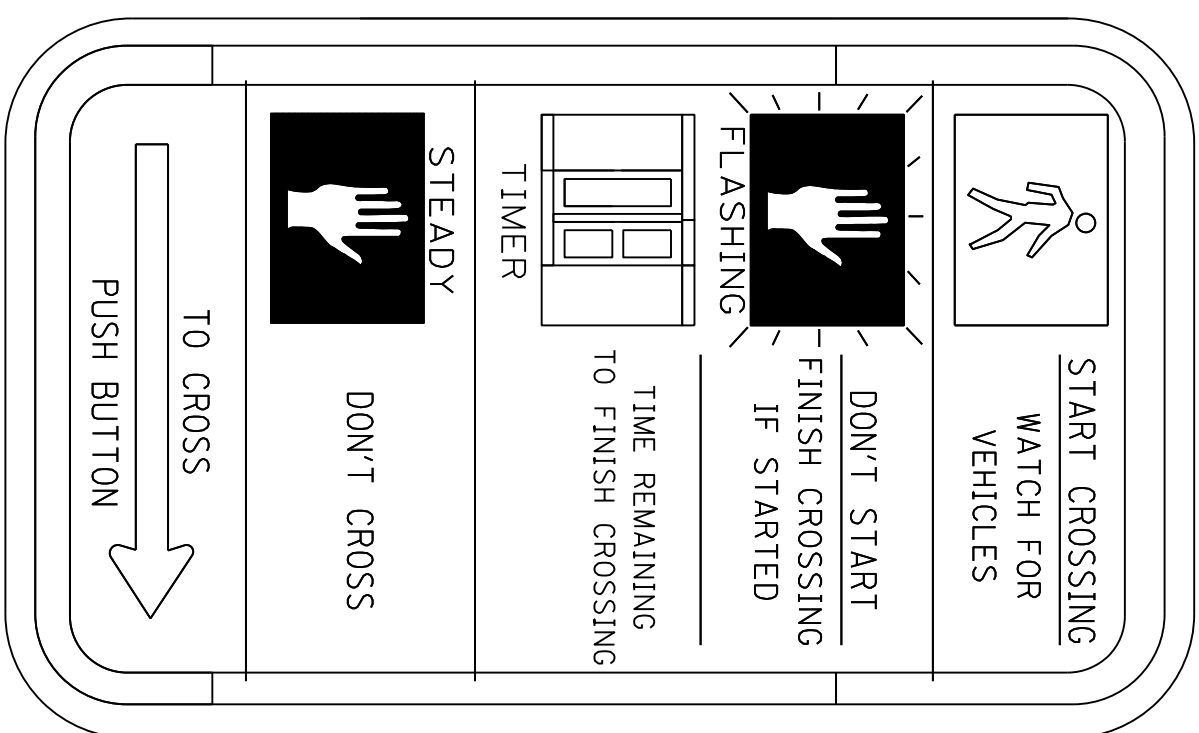
PEDESTAL POST DETAIL FOR PED DETECTORS & SIGNS



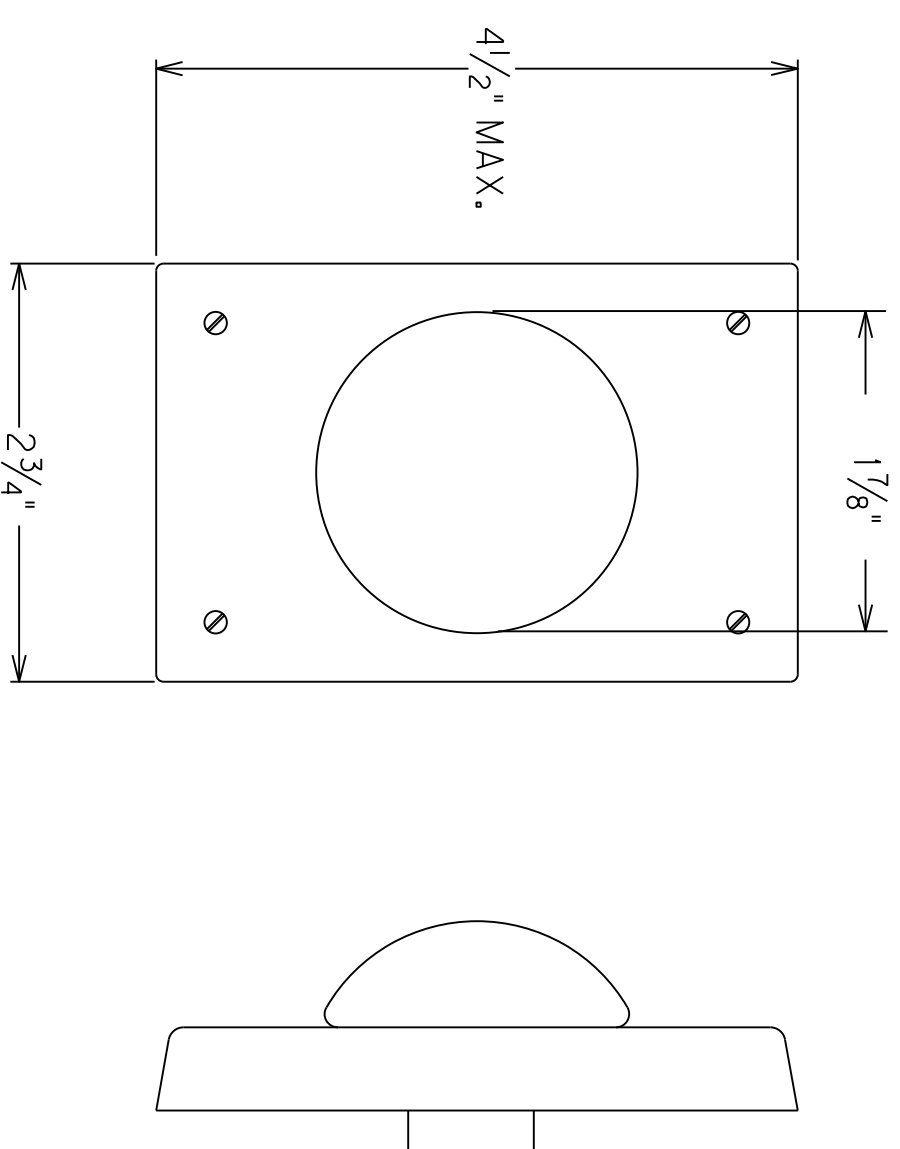
TYPE FS BOX FOR USE WITH STEEL STRAIN POLE, WOOD POST, PEDESTAL, AND WOOD POLE



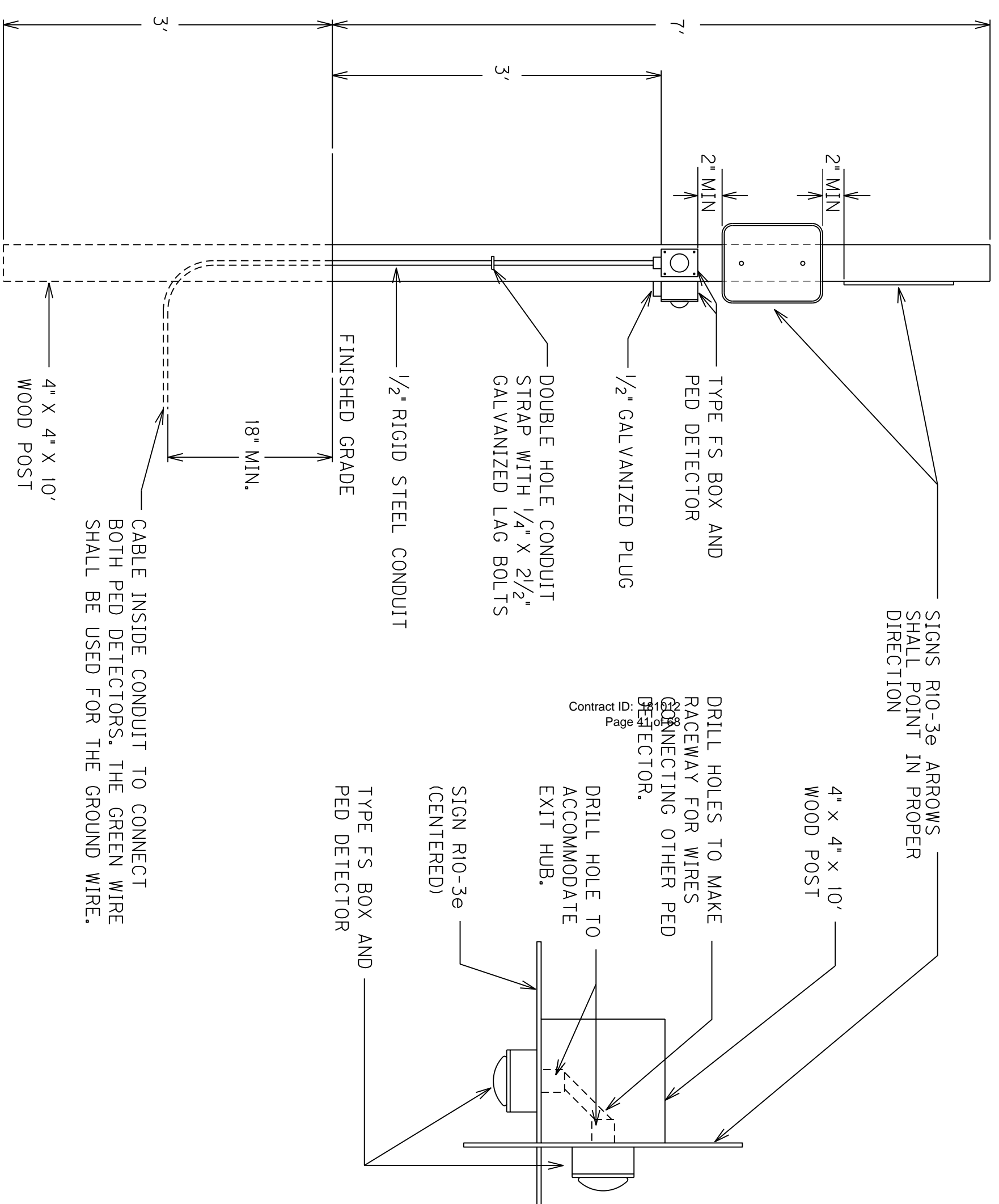
RIO-3e SIGN (9" X 15") FOR COUNTDOWN ONLY



PEDE DETECTOR



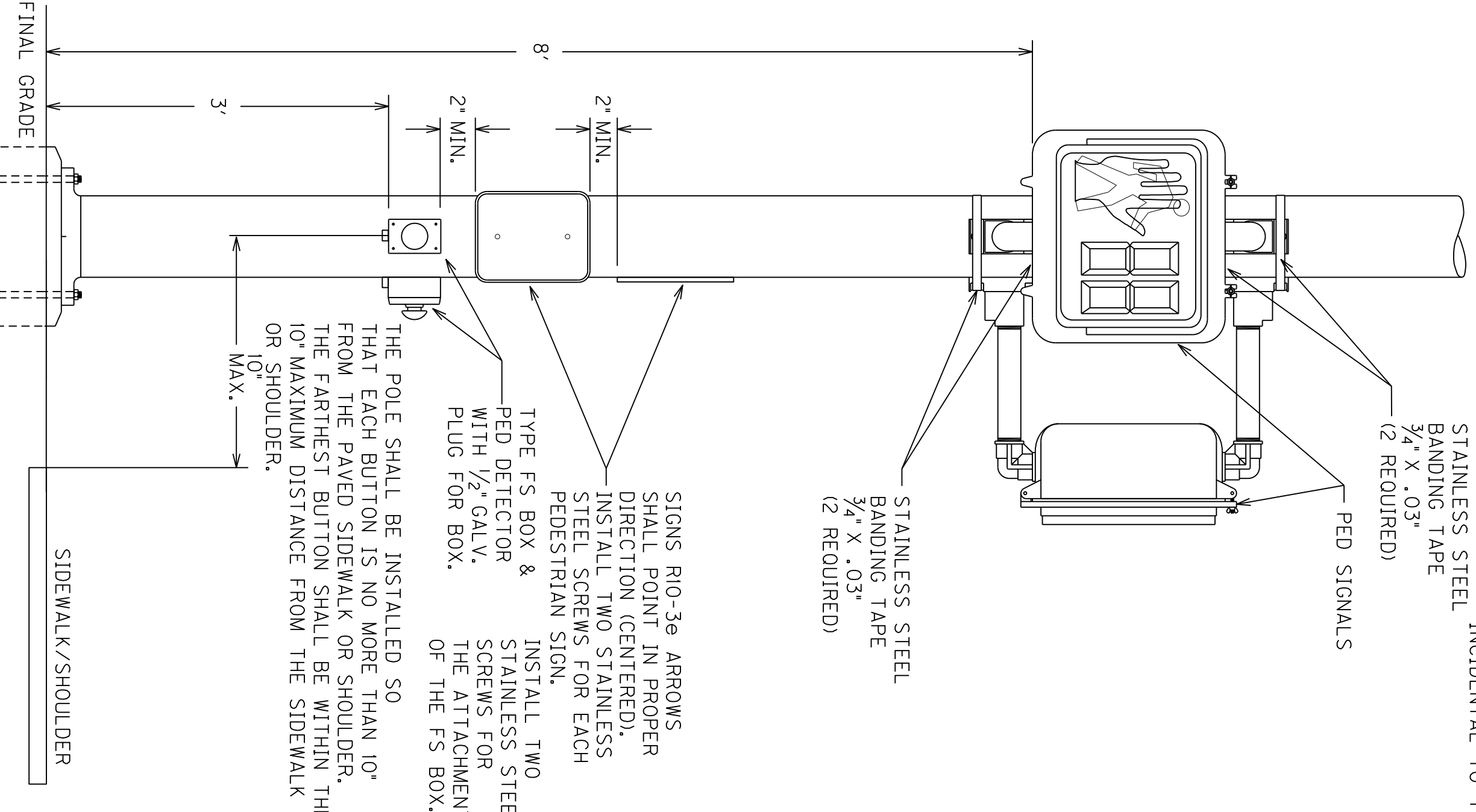
#9 X 1/2" PAN HEAD OR ROUND HEAD WOOD SCREWS TO SECURE BOX TO POST. MINIMUM OF 2 SCREWS FOR EACH BOX. SCREWS SHALL BE INSTALLED DIAGONALLY.



PEDE DETECTOR ON WOOD POST DETAIL

PEDESTRIAN DETECTOR DETAIL

NOTE:
THE PEDESTAL BASE DOOR SHALL HAVE A 4" BY 6" ARC FLASH WARNING STICKER INSTALL 3" FROM THE TOP OF THE DOOR. THE STICKER SHALL BE METALGRAF T PL1695 PREM STYLEMARK LABEL WITH .007 THICKNESS, WITH UV WHITE POLYCARBONATE MATERIAL, AND WITH MC53FL PRESSURE SENSITIVE ADHESIVE OR APPROVAL EQUAL. THIS SHALL BE INCIDENTAL TO THE PROJECT.



STAINLESS STEEL BANDING TAPE (2 REQUIRED) 3/4" X .03"

PED SIGNALS

STAINLESS STEEL BANDING TAPE (2 REQUIRED) 3/4" X .03"

SIGNS RIO-3ø ARROWS SHALL POINT IN PROPER DIRECTION (CENTERED). INSTALL TWO STAINLESS STEEL SCREWS FOR EACH PEDESTRIAN SIGN.

INSTALL TWO STAINLESS STEEL SCREWS FOR THE ATTACHMENT OF THE FS BOX.

TYPE FS BOX & PED DETECTOR WITH 1/2" GALV. PLUG FOR BOX.

THE POLE SHALL BE INSTALLED SO THAT EACH BUTTON IS NO MORE THAN 10" FROM THE PAVED SIDEWALK OR SHOULDER. THE FARTHEST BUTTON SHALL BE WITHIN THE 10" MAXIMUM DISTANCE FROM THE SIDEWALK OR SHOULDER.

8'

2" MIN.

2" MIN.

3'

FINAL GRADE

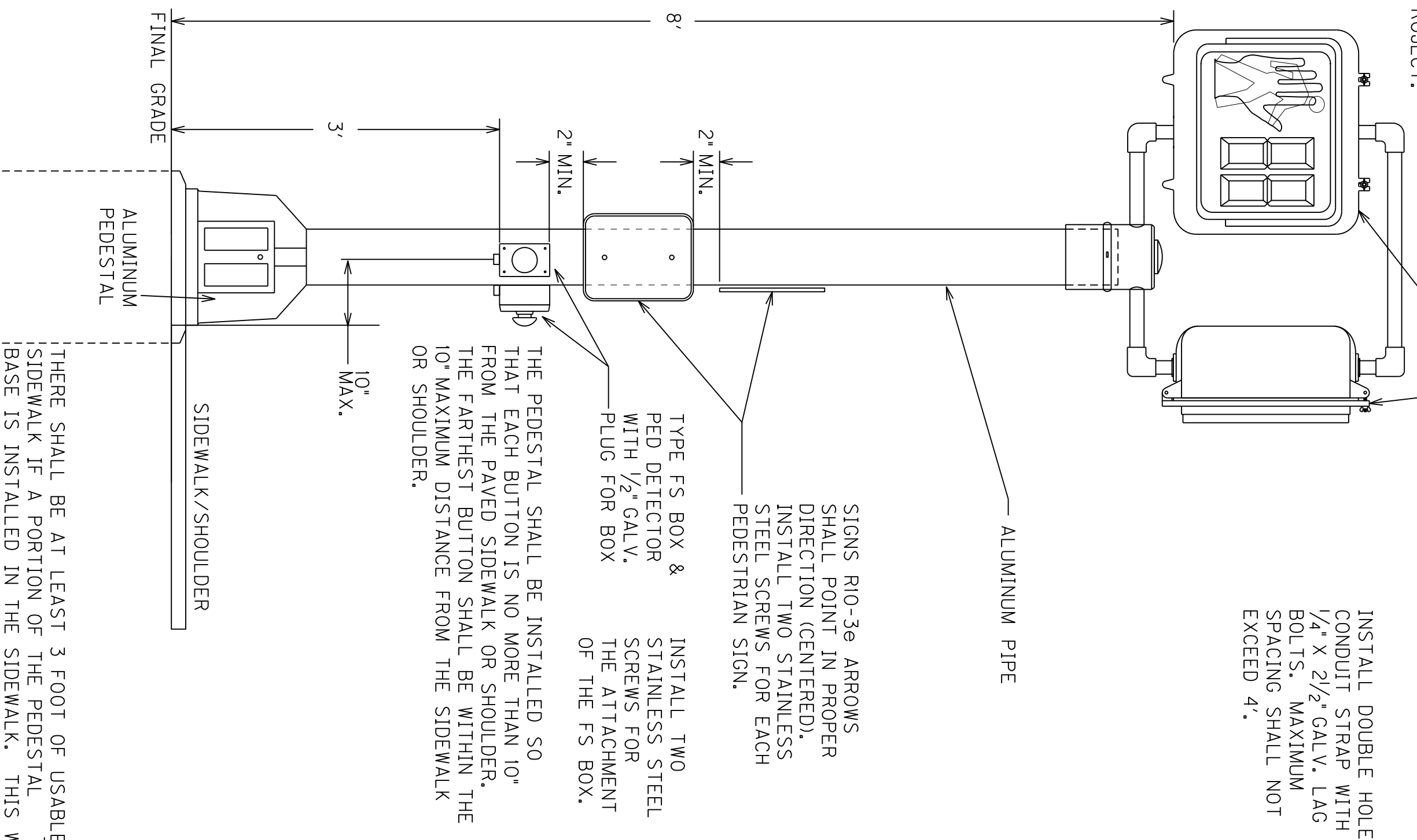
SIDEWALK/SHOULDER

SEE POLE BASE DETAIL SHEET FOR CONCRETE BASE DETAIL AND GROUNDING DETAILS

THERE SHALL BE AT LEAST 3 FOOT OF USABLE SIDEWALK IF A PORTION OF THE POLE BASE IS INSTALLED IN THE SIDEWALK. THE POLE BASE SHALL BE INSTALLED FLUSH WITH THE GRADE IF IN SIDEWALK.

CONTRACTOR SHALL DRILL HOLES IN THE STEEL STRAIN POLE AND THE TYPE FS BOX NOT EXCEEDING 1/2" IN DIAMETER. CONTRACTOR SHALL USE A ROUND FILE TO REMOVE ALL BURRS AND SHARP EDGES FROM THE HOLES. WIRES SHALL BE PROTECTED WITH HEAT SHRINK TUBING OR VINYL TAPE WHERE THEY PASS THROUGH THE HOLES.

STEEL STRAIN POLE DETAIL FOR PED DETECTORS AND PED SIGNALS



PED SIGNALS

INSTALL TWO DOUBLE HOLE CONDUIT STRAP WITH 1/4" X 2 1/2" GALV. LAG BOLTS. MAXIMUM SPACING SHALL NOT EXCEED 4'.

ALUMINUM PIPE

SIGNS RIO-3ø ARROWS SHALL POINT IN PROPER DIRECTION (CENTERED). INSTALL TWO STAINLESS STEEL SCREWS FOR EACH PEDESTRIAN SIGN.

INSTALL TWO STAINLESS STEEL SCREWS FOR THE ATTACHMENT OF THE FS BOX.

TYPE FS BOX & PED DETECTOR WITH 1/2" GALV. PLUG FOR BOX.

THE PEDESTAL SHALL BE INSTALLED SO THAT EACH BUTTON IS NO MORE THAN 10" FROM THE PAVED SIDEWALK OR SHOULDER. THE FARTHEST BUTTON SHALL BE WITHIN THE 10" MAXIMUM DISTANCE FROM THE SIDEWALK OR SHOULDER.

8'

2" MIN.

2" MIN.

3'

FINAL GRADE

SIDEWALK/SHOULDER

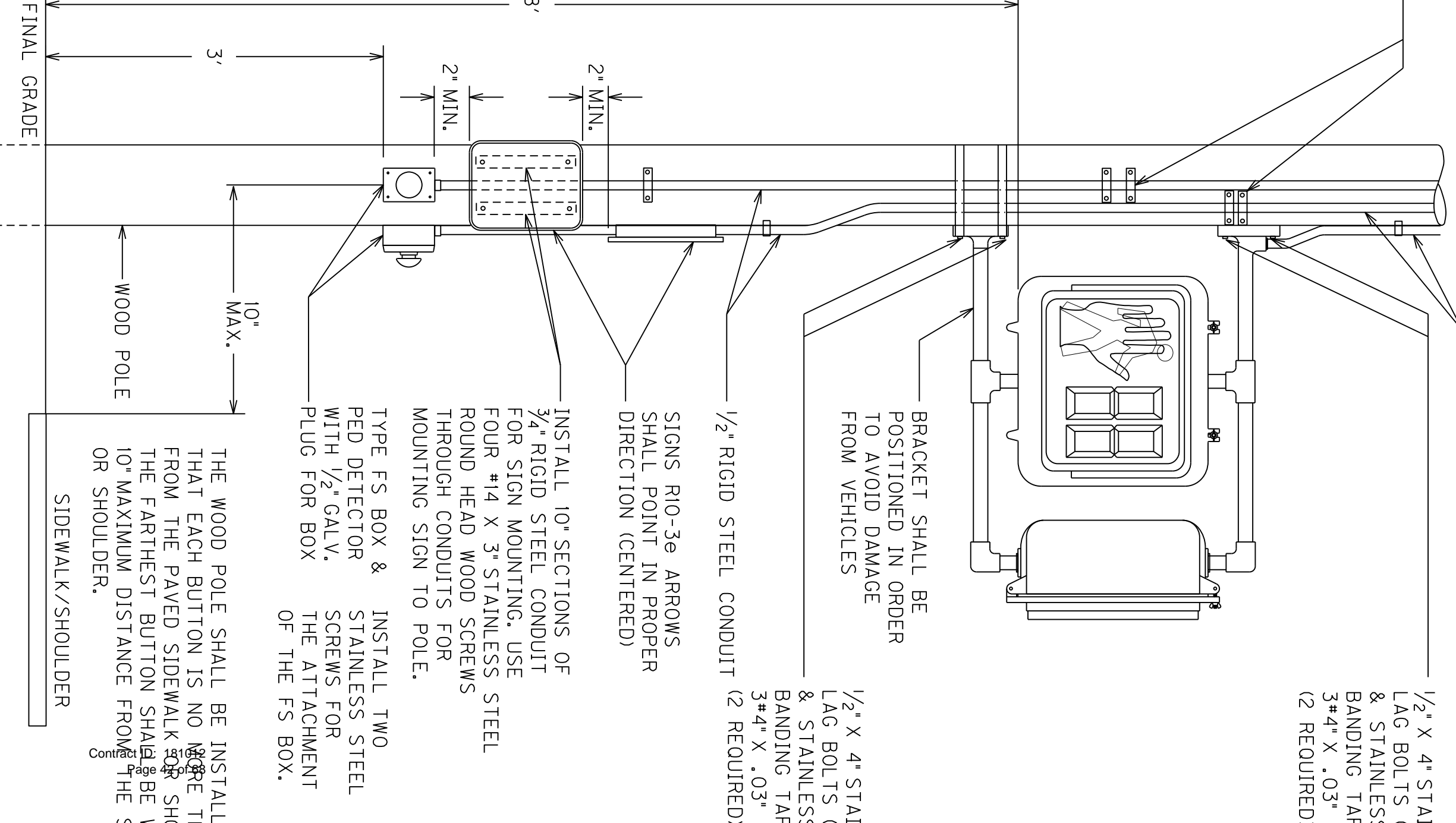
ALUMINUM PEDESTAL

SEE PEDESTAL POLE BASE DETAIL FOR CONCRETE BASE DETAIL AND GROUNDING DETAILS

THERE SHALL BE AT LEAST 3 FOOT OF USABLE SIDEWALK IF A PORTION OF THE PEDESTAL BASE IS INSTALLED IN THE SIDEWALK. THIS WILL BE APPROXIMATELY ABOUT 2 INCH OF THE PEDESTAL BASE INTO THE SIDEWALK. THE PEDESTAL SHALL BE INSTALLED FLUSH WITH THE GRADE.

CONTRACTOR SHALL DRILL HOLES IN THE PIPE AND THE TYPE FS BOX NOT EXCEEDING 1/2" IN DIAMETER. CONTRACTOR SHALL USE A ROUND FILE TO REMOVE ALL BURRS AND SHARP EDGES FROM THE HOLES. WIRES SHALL BE PROTECTED WITH HEAT SHRINK TUBING OR VINYL TAPE WHERE THEY PASS THROUGH THE HOLES.

PEDESTAL POLE DETAIL FOR PED DETECTORS AND PED SIGNALS



1/4" RIGID STEEL CONDUIT

BRACKET SHALL BE POSITIONED IN ORDER TO AVOID DAMAGE FROM VEHICLES

1/2" X 4" STAINLESS STEEL LAG BOLTS (2 REQUIRED) & STAINLESS STEEL BANDING TAPE (2 REQUIRED) 3/4" X .03"

1/2" X 4" STAINLESS STEEL LAG BOLTS (2 REQUIRED) & STAINLESS STEEL BANDING TAPE (2 REQUIRED) 3/4" X .03"

1/2" RIGID STEEL CONDUIT

SIGNS RIO-3ø ARROWS SHALL POINT IN PROPER DIRECTION (CENTERED)

INSTALL 10' SECTIONS OF 1/2" RIGID STEEL CONDUIT FOR SIGN MOUNTING. USE FOUR #14 X 3" STAINLESS STEEL ROUND HEAD WOOD SCREWS THROUGH CONDUITS FOR MOUNTING SIGN TO POLE.

INSTALL TWO STAINLESS STEEL SCREWS FOR THE ATTACHMENT OF THE FS BOX.

TYPE FS BOX & PED DETECTOR WITH 1/2" GALV. PLUG FOR BOX.

8'

2" MIN.

2" MIN.

3'

FINAL GRADE

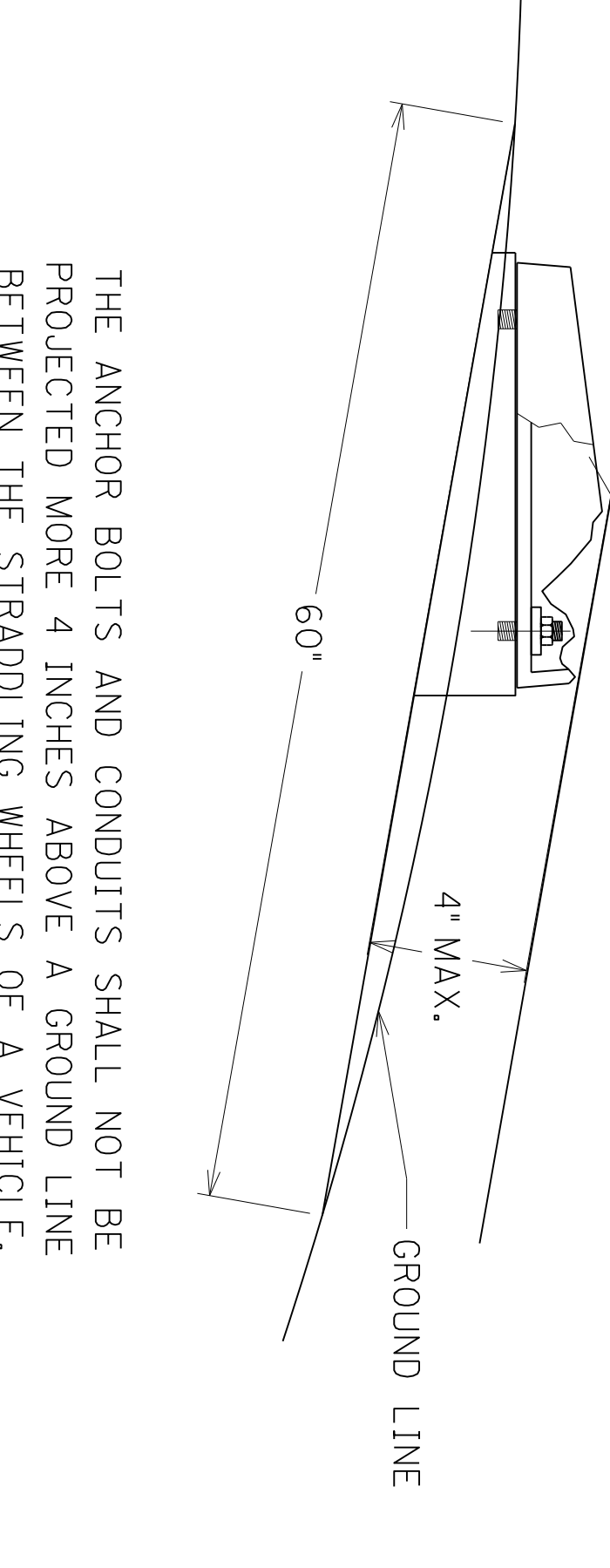
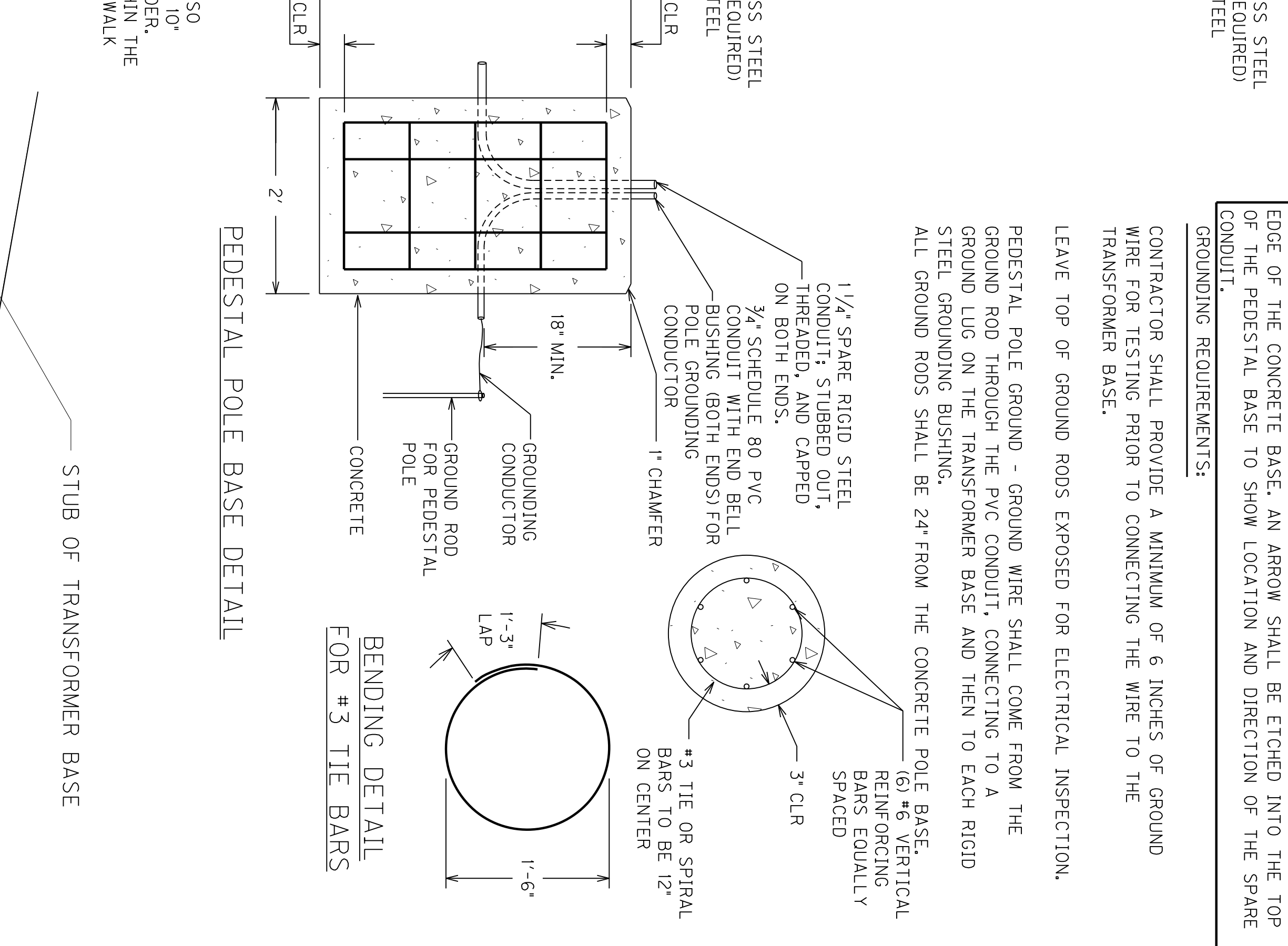
WOOD POLE

SIDEWALK/SHOULDER

THE WOOD POLE SHALL BE INSTALLED SO THAT EACH BUTTON IS NO MORE THAN 10" FROM THE PAVED SIDEWALK OR SHOULDER. THE FARTHEST BUTTON SHALL BE WITHIN THE 10" MAXIMUM DISTANCE FROM THE SIDEWALK OR SHOULDER.

9 X 1 1/2" STAINLESS STEEL PAN HEAD OR ROUND HEAD WOOD SCREWS SHALL BE USED TO SECURE TYPE FS BOX TO POLE. A MINIMUM OF 2 SCREWS PER BOX. INSTALLED DIAGONALLY. SHALL BE USED.

WOOD POLE DETAIL FOR PED DETECTORS AND PED SIGNALS



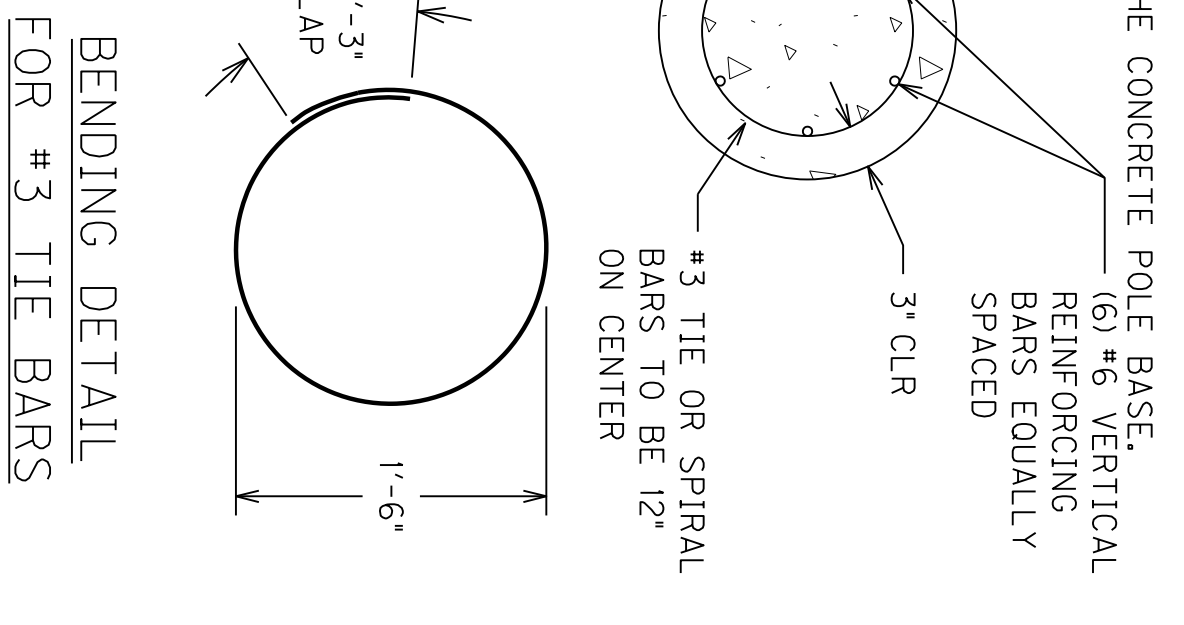
NOTE:
ALL GROUNDING AND SPARE CONDUITS THAT ARE INSTALLED IN THE CONCRETE PEDESTAL POLE BASE ARE INCIDENTAL TO BID ITEM 23222EC. THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE CONCRETE BASE. AN ARROW SHALL BE ETCHED INTO THE TOP OF THE PEDESTAL BASE TO SHOW LOCATION AND DIRECTION OF THE SPARE CONDUIT.

GROUNDING REQUIREMENTS:
CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE FOR TESTING PRIOR TO CONNECTING THE WIRE TO THE TRANSFORMER BASE.

LEAVE TOP OF GROUND RODS EXPOSED FOR ELECTRICAL INSPECTION.

PEDESTAL POLE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO A GROUND LUG ON THE TRANSFORMER BASE AND THEN TO EACH RIGID STEEL GROUNDING BUSHING.

ALL GROUND RODS SHALL BE 24" FROM THE CONCRETE POLE BASE.

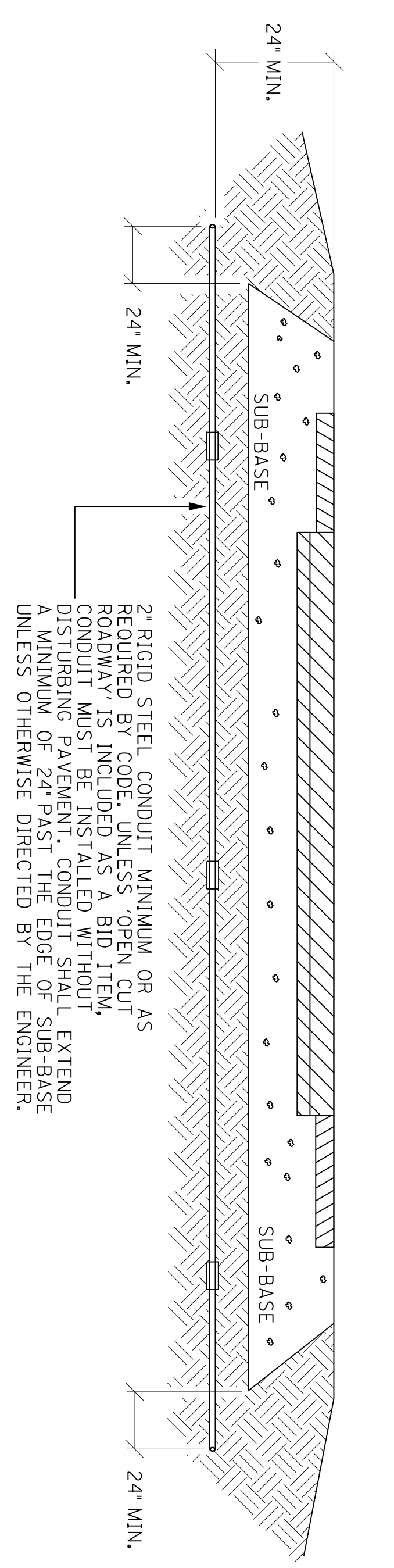


2/12/2018

COUNTY OF	ITEM NO.	SHEET NO.
JEFFERSON	5-8803.00	15

PEDESTRIAN SIGNAL COUNTDOWN DETAIL

BREAKAWAY SUPPORT STUB HEIGHT MEASUREMENT



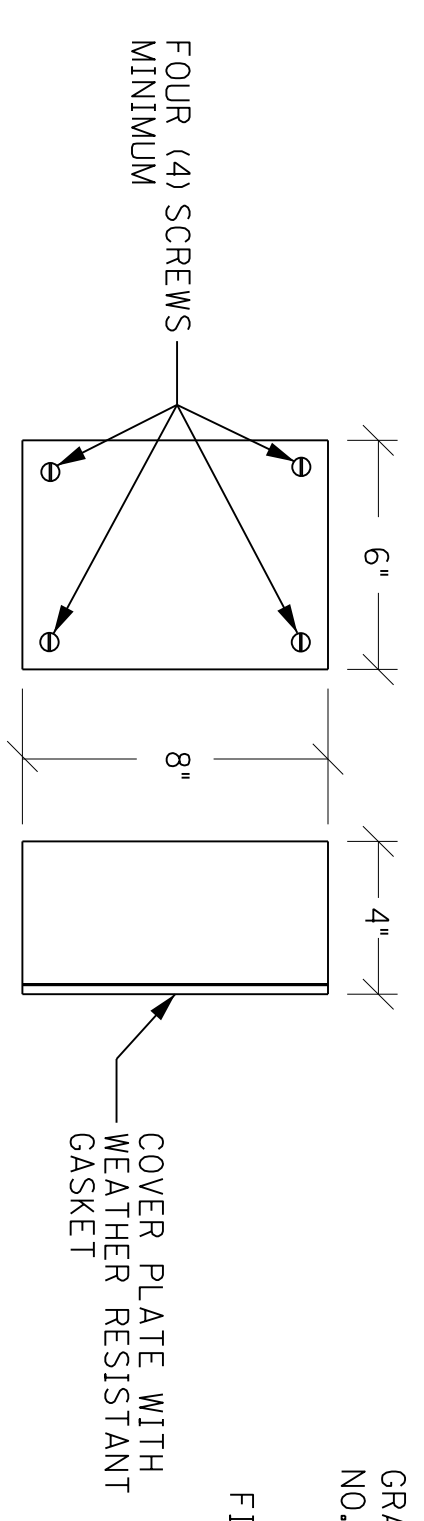
CONDUIT INSTALLATION UNDER EXISTING PAVEMENT DETAIL

DEPTHS SHOWN FOR CONDUIT AND DUCTED CABLE ARE MINIMUMS. CONTRACTOR SHALL PLACE AND COMPACT BACKFILL IN 9" MAXIMUM LIFTS AND RETORE DISTURBED AREA TO THE SATISFACTION OF THE ENGINEER.

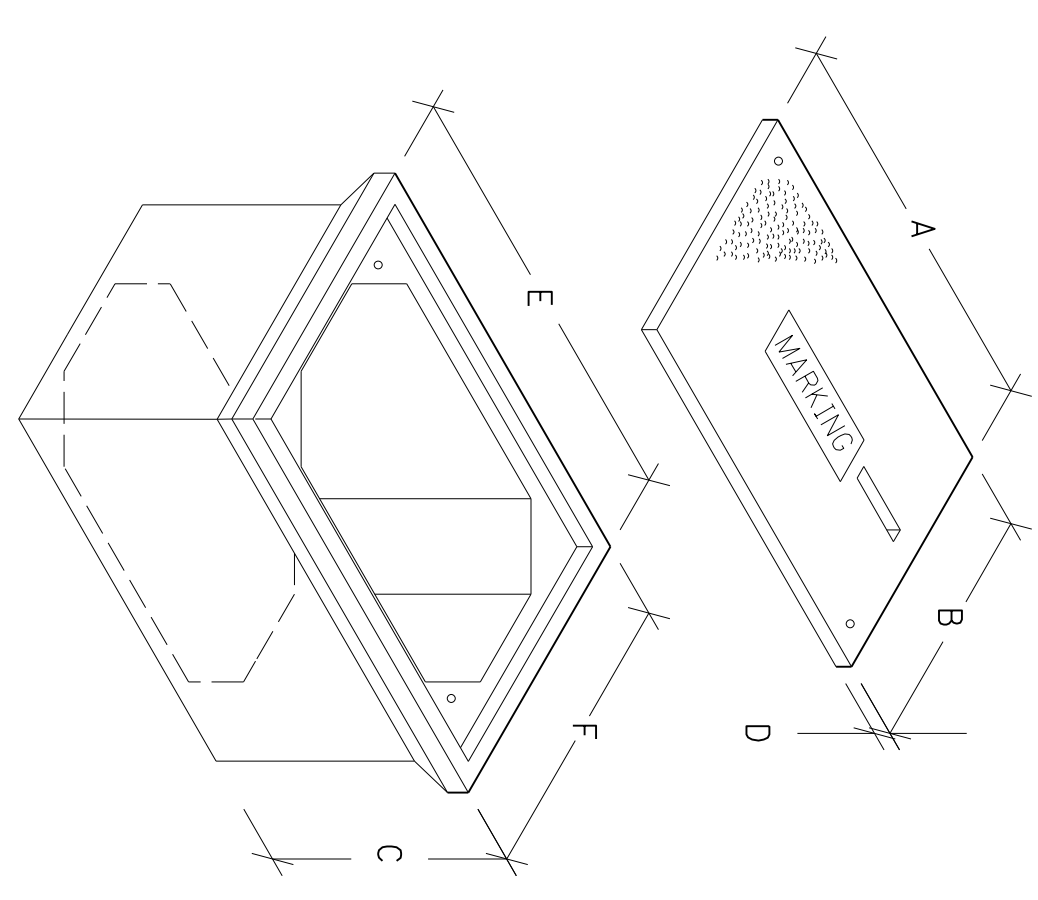
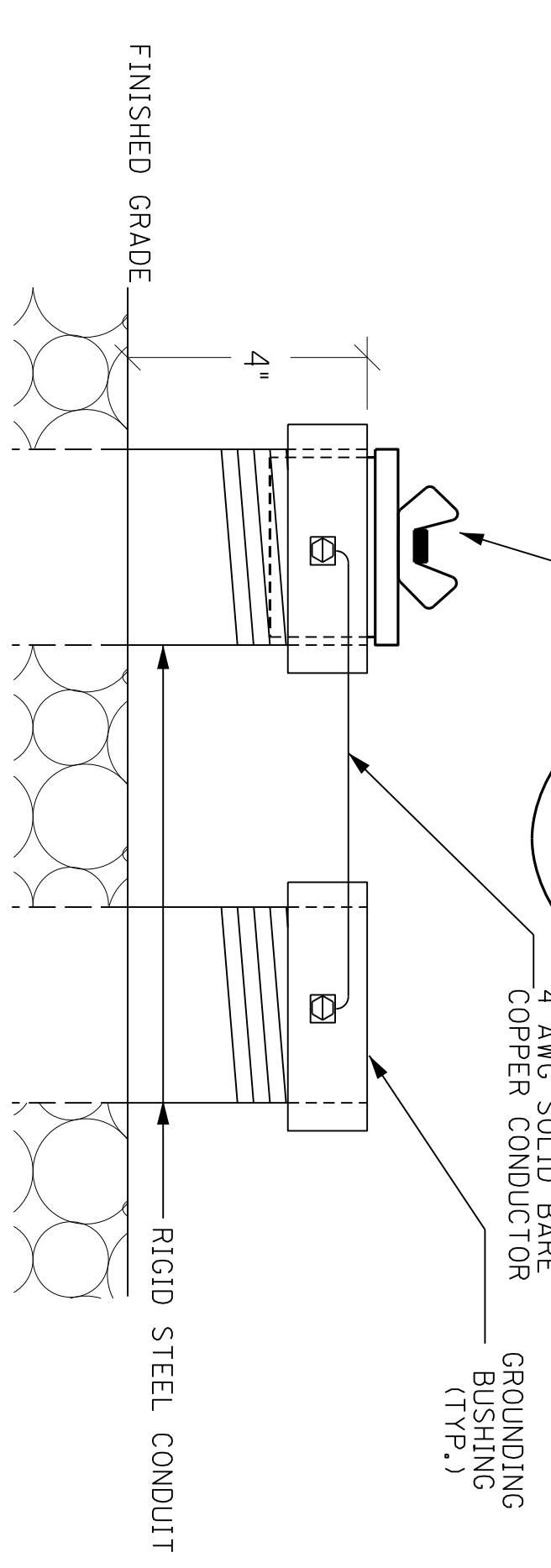
CONDUIT, DUCTED CABLE, AND WARNING TAPE TRENCH

ABOVE GROUND 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.

ABOVE GROUND BOX



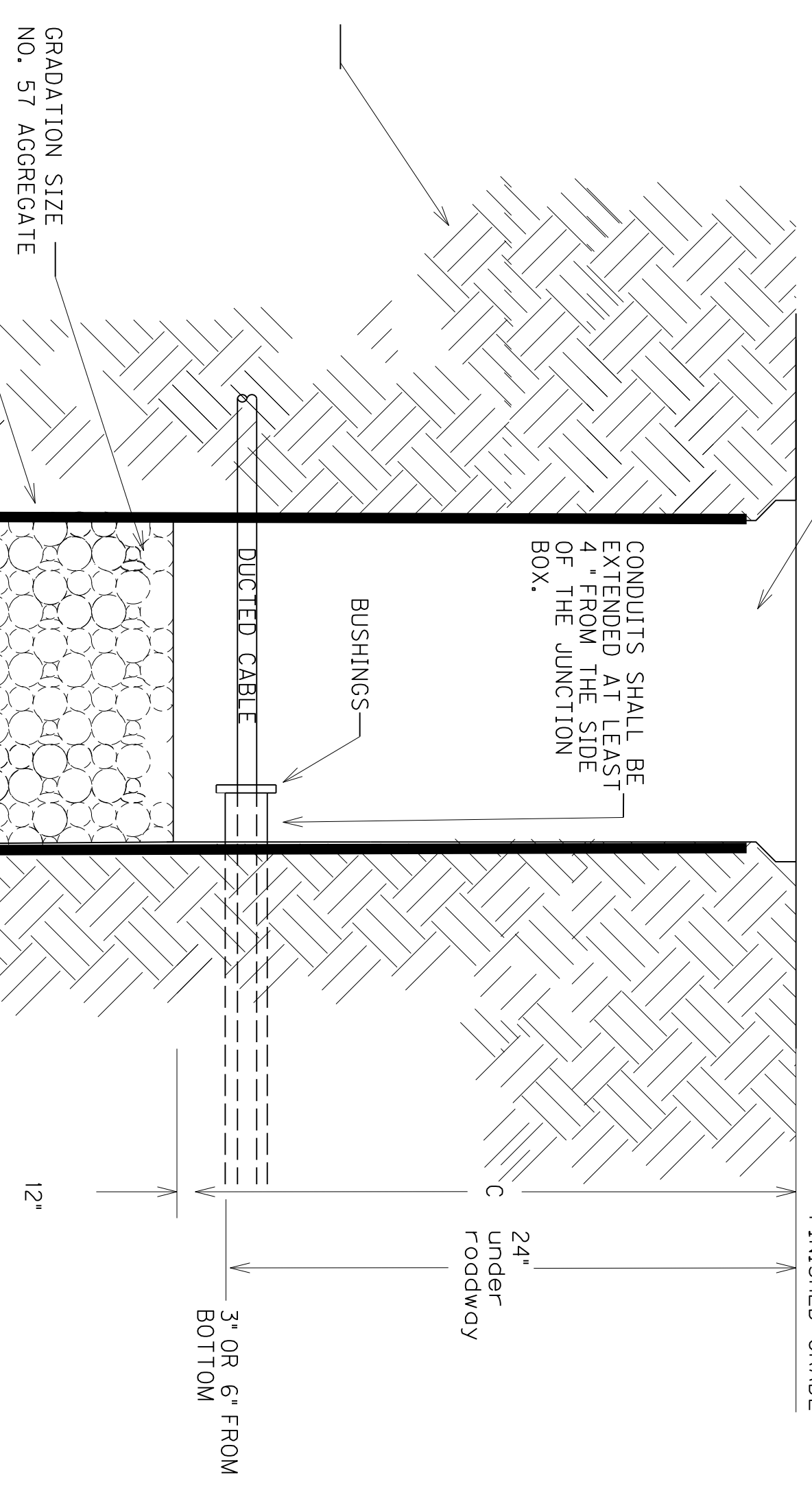
TEST/PIPE PLUG (FOR SPARE CONDUITS) CAPPED ON BOTH ENDS



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 JUNCTION BOX

CONDUITS SHALL BE EXTENDED AT LEAST 6" FROM THE SIDE OF THE JUNCTION BOX.

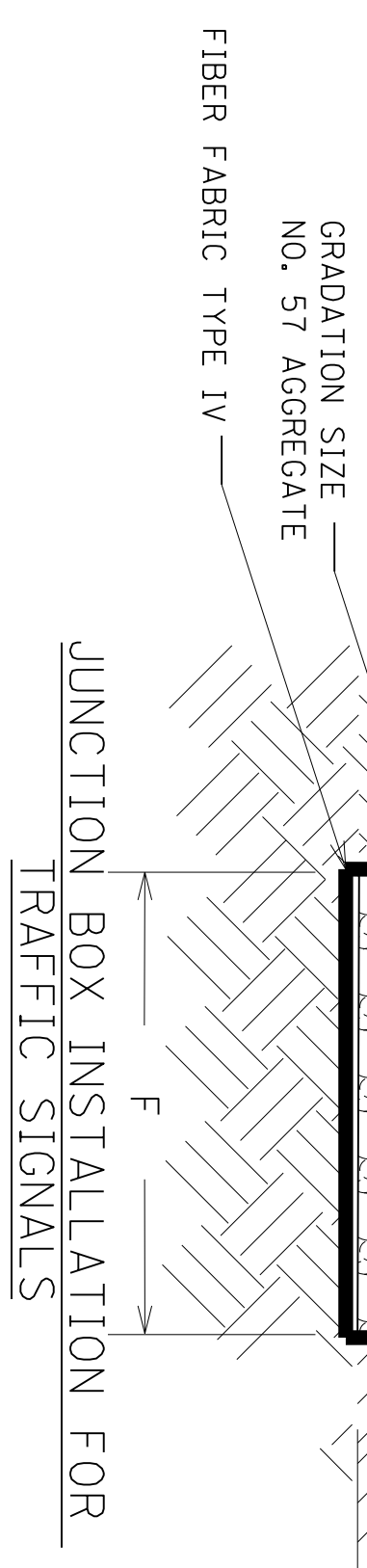
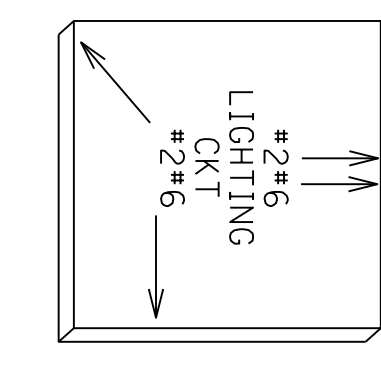
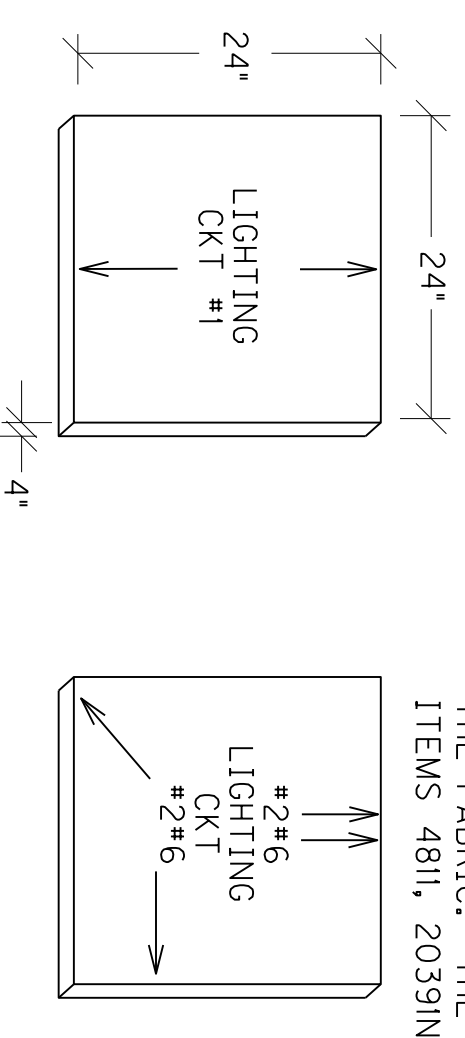


JUNCTION BOX INSTALLATION FOR HIGHMAST LIGHTING

JUNCTION BOX INSTALLATION FOR CONVENTIONAL LIGHTING

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 4811, 20339NS835, OR 20339NS835.

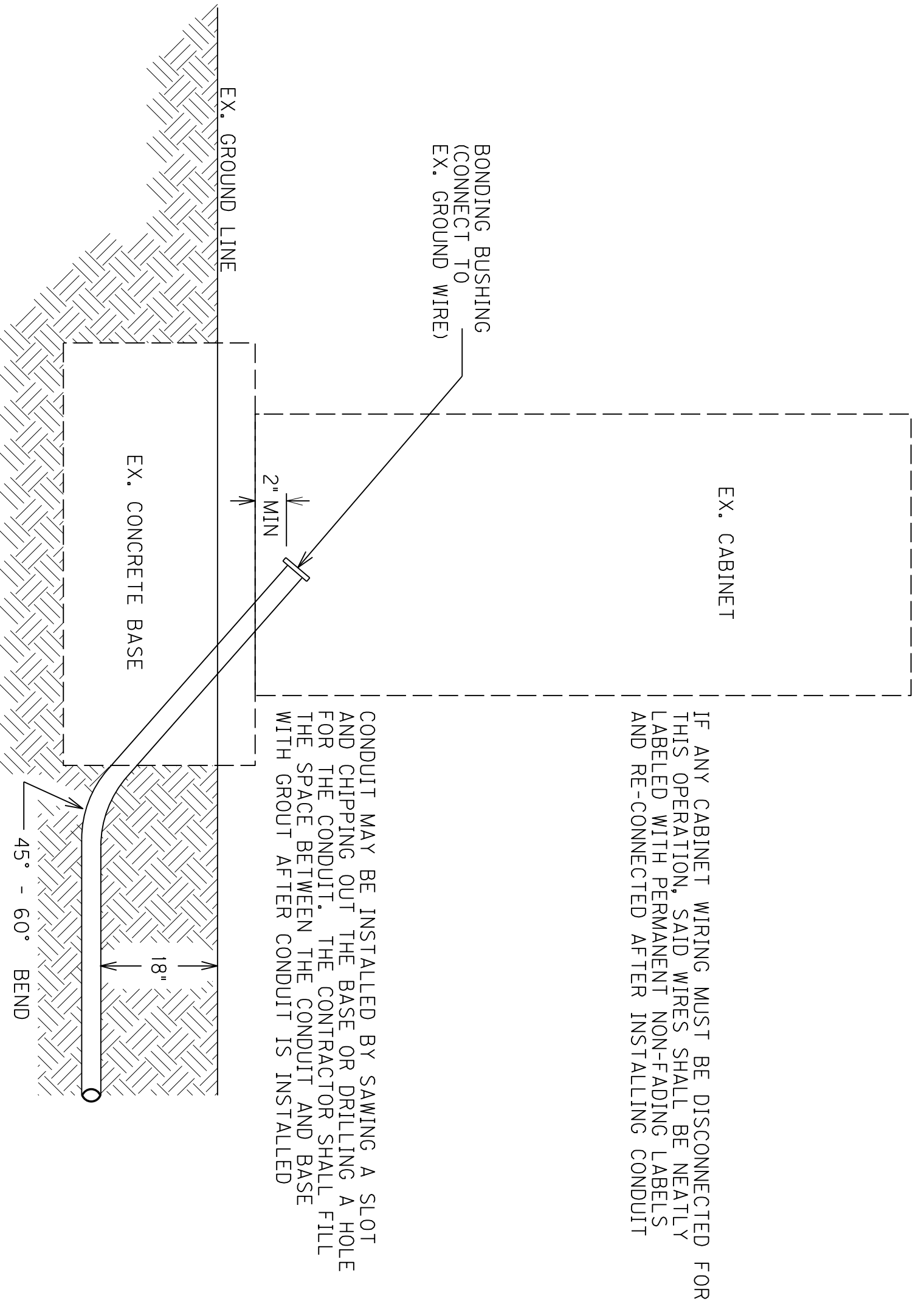
CONDUCTOR INSTALLATIONS- CONDUIT SHALL BE EXPOSED 4" FROM BOTTOM OF BOX



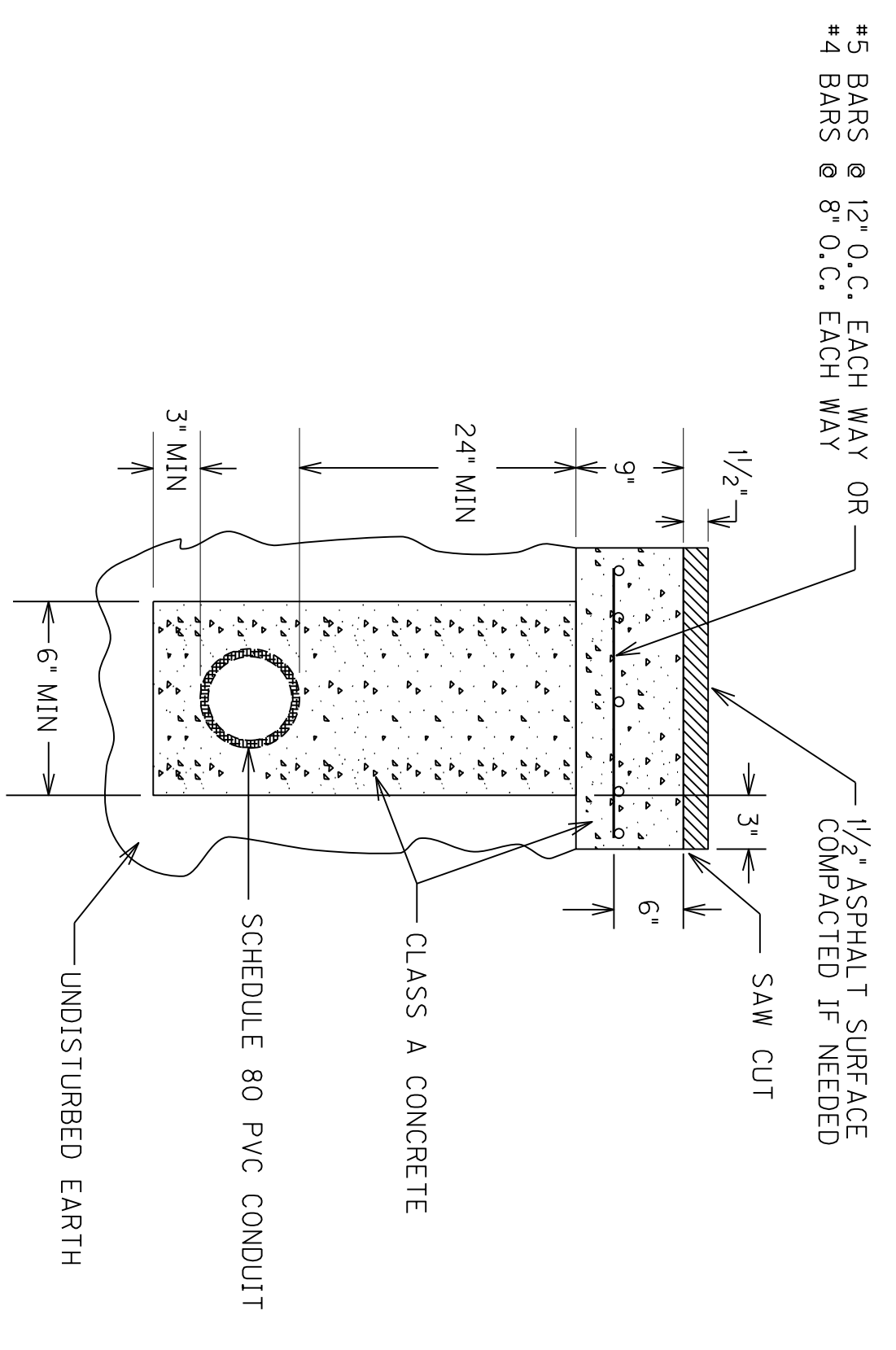
TEST/PIPE PLUG(FOR SPARE CONDUITS) AND GROUNDING DETAIL CONCRETE CABLE MARKERS

3/10/2017

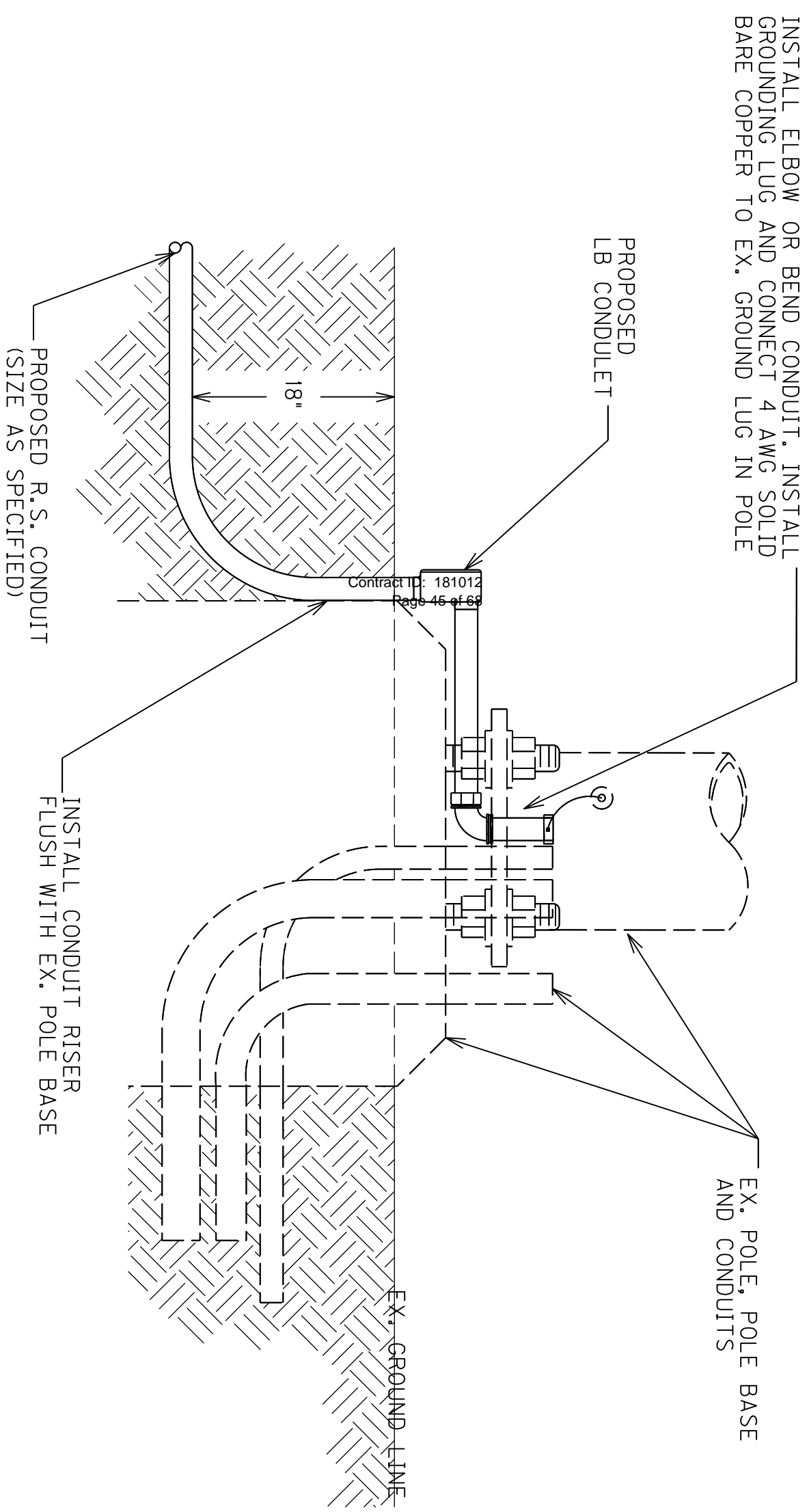
CONDUIT INSTALLATION IN EX. CABINET BASE



OPEN CUT PAVEMENT DETAIL

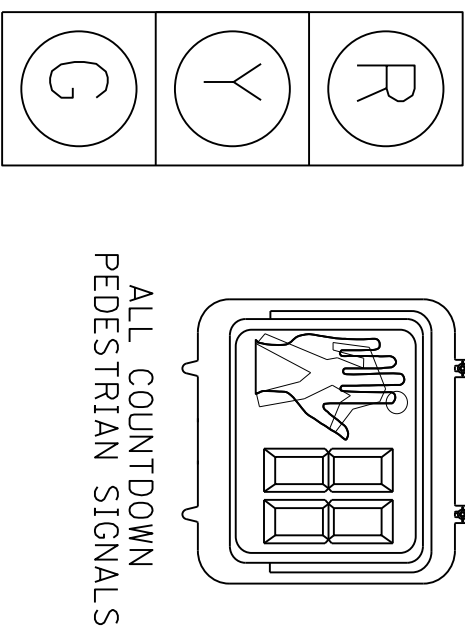


CONDUIT INSTALLATION IN EX. POLE BASE



CONDUIT INSTALLATIONS IN EXISTING LOCATIONS

SIGNAL HEADS



ALL COUNTDOWN PEDESTRIAN SIGNALS

HEAD #
2A, 2B, 4A, 4B,
6A, 6B, 8A, & 8B

ALL INDICATIONS, I.E.D.
ALL SIGNAL HEADS
REFLECTIVE BACKPLATES

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

CONTRACTOR SHALL VERIFY ALL ATTACHMENT HEIGHTS IN THE FIELD SO THAT ALL SIGNAL HEADS AND SIGNS ARE BETWEEN 17' AND 19' FROM FINISHED GRADE TO BOTTOM OF SIGNAL HEAD OR SIGN.
CONTRACTOR SHALL VERIFY PHASING WITH DISTRICT TRAFFIC AND/OR LOUISVILLE METRO TRAFFIC

THE CABINET SHALL SUPPLY CLAMP ASSEMBLIES FOR MESSENGER CABLE ATTACHMENTS BASED ON THE PRELIMINARY DESIGN OF THE POLES. IF THE ATTACHMENT LOCATIONS FOR CLAMP ASSEMBLIES ARE MORE THAN 2 FEET FROM THE TOP OF THE POLE, THE CONTRACTOR SHALL PROVIDE REPLACEMENT CLAMP ASSEMBLIES THAT WILL FACILITATE THE INSTALLATION. CONTRACTOR SUPPLIED CLAMP ASSEMBLIES SHALL BE IDENTICAL TO THE INSTALLATION OF THE STEEL STRAIN POLE. CONTRACTOR SUPPLIED CLAMP ASSEMBLIES SHALL CONFORM TO THE SPECIFICATIONS STATED ON THE POLE BASE/SIGNAL HEAD DETAILS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE REPLACEMENT ASSEMBLIES TO THE DIVISION OF TRAFFIC OPERATIONS FOR APPROVAL.

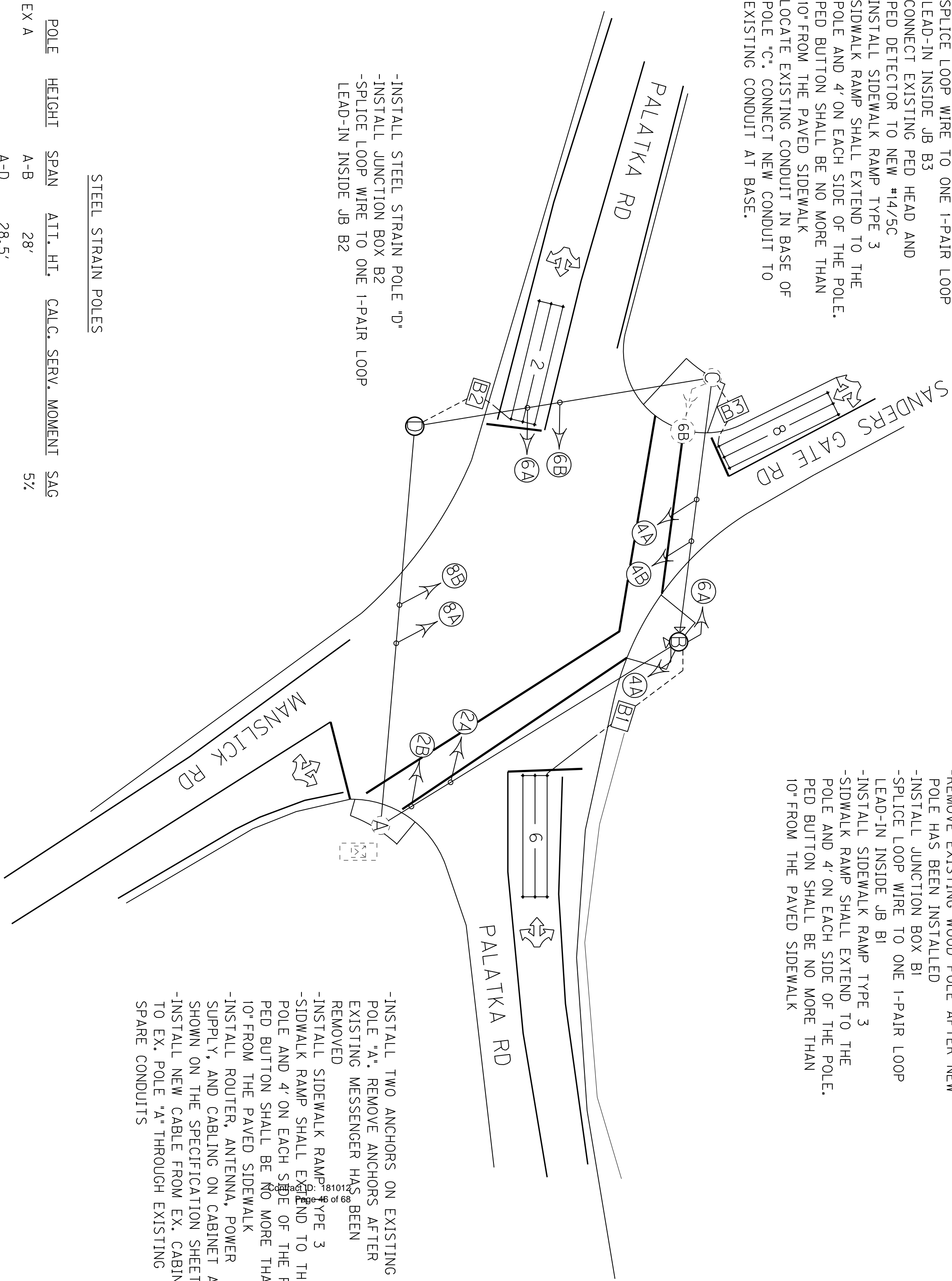
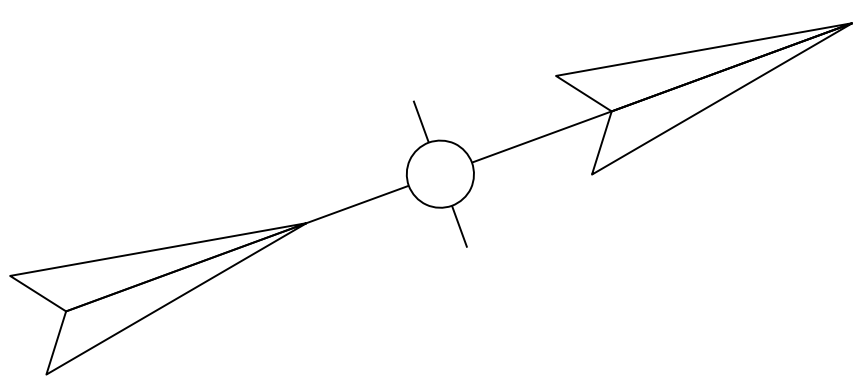
POLE	NORTHING/ EXISTING COORDINATES	GPS COORDINATES
B	N 3943394.86 E 4903454.08	L 47+38° 9'10.580"N L 07+85° 47' 27.684"W
D	N 3943341.88 E 4903381.42	L 47+38° 9'10.155"N L 07+85° 47' 28.5942"W

- INSTALL TWO ANCHORS ON EXISTING POLE 'C'. REMOVE ANCHORS AFTER EXISTING MESSENGER HAS BEEN REMOVED
- INSTALL JUNCTION BOX B3
- SPICE LOOP WIRE TO ONE 1-PAIR LOOP LEAD-IN INSIDE JB B3
- CONNECT EXISTING PED HEAD AND PED DETECTOR TO NEW #14/5C
- INSTALL SIDEWALK RAMP TYPE 3
- SIDEWALK RAMP SHALL EXTEND TO THE POLE AND 4' ON EACH SIDE OF THE POLE. PED BUTTON SHALL BE NO MORE THAN 10' FROM THE PAVED SIDEWALK
- LOCATE EXISTING CONDUIT IN BASE OF POLE 'C'. CONNECT NEW CONDUIT TO EXISTING CONDUIT AT BASE.

- INSTALL STEEL STRAIN POLE 'B'
- INSTALL 2 PED HEADS & 2 PED DETECTORS ON POLE 'B'
- REMOVE EXISTING WOOD POLE AFTER NEW POLE HAS BEEN INSTALLED
- INSTALL JUNCTION BOX B1
- SPICE LOOP WIRE TO ONE 1-PAIR LOOP LEAD-IN INSIDE JB B1
- INSTALL SIDEWALK RAMP TYPE 3
- SIDEWALK RAMP SHALL EXTEND TO THE POLE AND 4' ON EACH SIDE OF THE POLE. PED BUTTON SHALL BE NO MORE THAN 10' FROM THE PAVED SIDEWALK

STEEL STRAIN POLES

POLE	HEIGHT	SPAN	ATT. HI.	CALC. SERV. MOMENT	SAG
EX A	A-B	28'			5%
	A-D	28.5'			
B	B-A	28'		110 Kip-ft	5%
	B-C	27.5'			
EX C	C-B	27'			5%
	C-D	27.5			
D	D-C	28.5'		125 Kip-ft	5%
	D-A	28'			



- INSTALL TWO ANCHORS ON EXISTING POLE 'A'. REMOVE ANCHORS AFTER EXISTING MESSENGER HAS BEEN REMOVED
- INSTALL SIDEWALK RAMP TYPE 3
- SIDEWALK RAMP SHALL EXTEND TO THE POLE AND 4' ON EACH SIDE OF THE POLE. PED BUTTON SHALL BE NO MORE THAN 10' FROM THE PAVED SIDEWALK
- INSTALL ROUTER, ANTENNA, POWER SUPPLY, AND CABLING ON CABINET AS SHOWN ON THE SPECIFICATION SHEETS
- INSTALL NEW CABLE FROM EX. CABINET TO EX. POLE 'A' THROUGH EXISTING SPARE CONDUITS

WIRING SCHEDULE

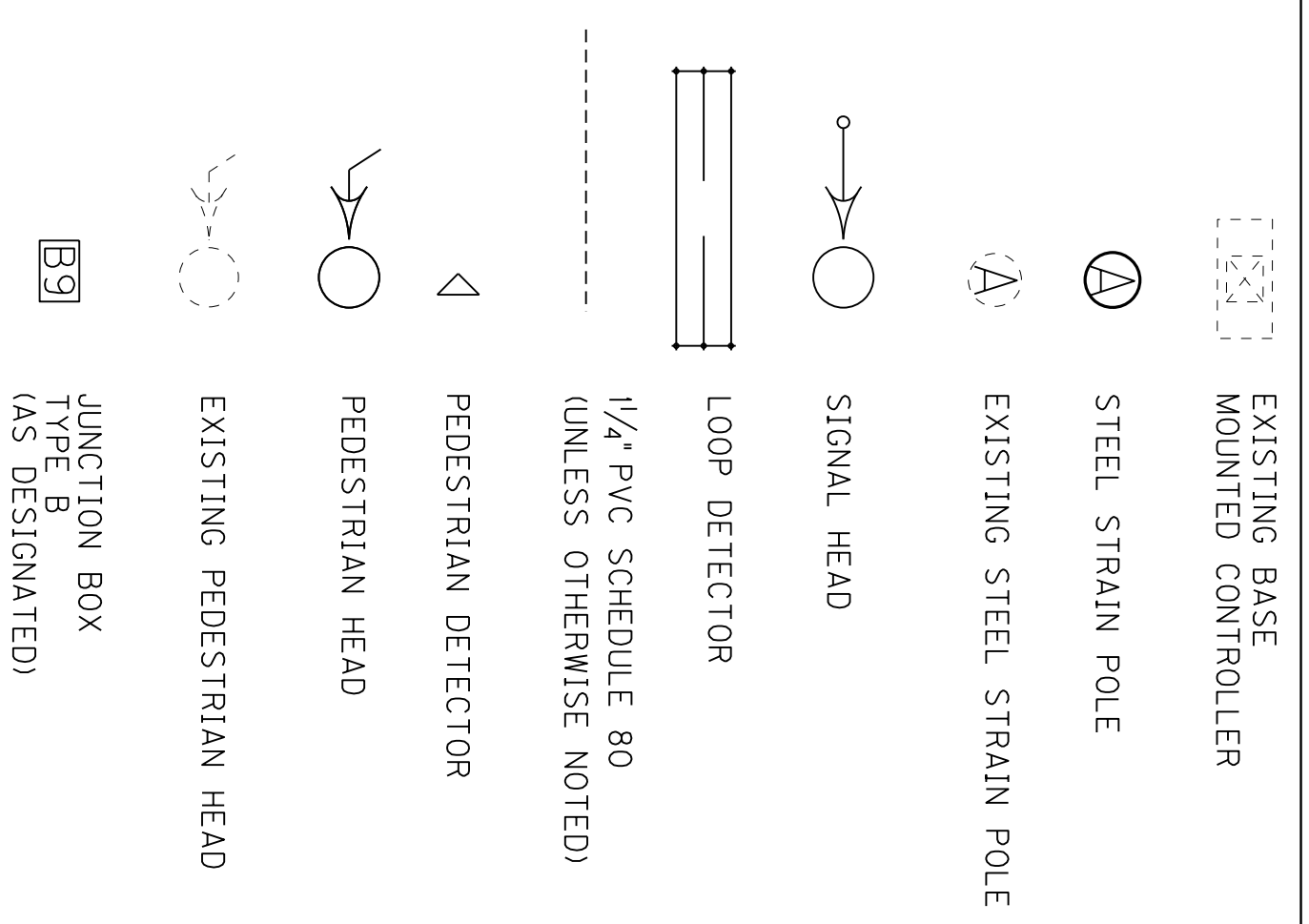
CABLE	ORIGIN	ENDING	CONNECTING
1-#14/5C	CONTROLLER	SH 2A & 2B	SH 2A & 2B
1-#14/5C	CONTROLLER	SH 4A & 4B	SH 4A & 4B
1-#14/5C	CONTROLLER	SH 6A & 6B	SH 6A & 6B
1-#14/5C	CONTROLLER	SH 8A & 8B	SH 8A & 8B
1-#14/5C	CONTROLLER	POLE B	PH 6A & 1 PED DETECTOR
1-#14/1 PAIR	CONTROLLER	POLE B	PH 4A & 1 PED DETECTOR
1-#14/1 PAIR	CONTROLLER	JB1	LOOP 6
1-#14/1 PAIR	CONTROLLER	JB2	LOOP 2
1-#14/5C	CONTROLLER	EX POLE C	LOOP 8
			EX PH 6B & EX PED DET

LOOP SCHEDULE

LOOP	PHASE	SLOT	CHANNEL	SIZE	# OF TURNS	DIST. FROM STOP BAR
2	2	12	1	6X30	2	0'
6	6	J2	1	6X30	2	0'
8	8	J6	1	6X30	2	0'

SCALE 1" = 20'

LEGEND



TRAFFIC SIGNAL PLAN SHEET
PALATKA RD / MANSLICK RD/
SANDERS GATE RD

SPECIAL NOTE FOR PROJECT RELATED INFORMATION

A full-size set of plans for this project may be found at the following KYTC link.

<https://transportation.ky.gov/Construction-Procurement/Pages/project-information.aspx?letting=4/27/2018>



KENTUCKY TRANSPORTATION CABINET
Department of Highways
DIVISION OF RIGHT OF WAY & UTILITIES

TC 62-226
Rev. 01/2016
Page 1 of 1

RIGHT OF WAY CERTIFICATION

<input checked="" type="checkbox"/> Original	<input type="checkbox"/> Re-Certification	RIGHT OF WAY CERTIFICATION	
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ITEM #	COUNTY	PROJECT # (STATE)	PROJECT # (FEDERAL)
5-8803.00	Jefferson	1100 FD04 056 926940	

PROJECT DESCRIPTION

Safety Improvements to Palatka Road (KY-1142) MP 0.0 to MP 1.73

No Additional Right of Way Required

Construction will be within the limits of the existing right of way. The right of way was acquired in accordance to FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional right of way or relocation assistance were required for this project.

Condition # 1 (Additional Right of Way Required and Cleared)

All necessary right of way, including control of access rights when applicable, have been acquired including legal and physical possession. Trial or appeal of cases may be pending in court but legal possession has been obtained. There may be some improvements remaining on the right-of-way, but all occupants have vacated the lands and improvements, and KYTC has physical possession and the rights to remove, salvage, or demolish all improvements and enter on all land. Just Compensation has been paid or deposited with the court. All relocations have been relocated to decent, safe, and sanitary housing or that KYTC has made available to displaced persons adequate replacement housing in accordance with the provisions of the current FHWA directive.

Condition # 2 (Additional Right of Way Required with Exception)

The right of way has not been fully acquired, the right to occupy and to use all rights-of-way required for the proper execution of the project has been acquired. Some parcels may be pending in court and on other parcels full legal possession has not been obtained, but right of entry has been obtained, the occupants of all lands and improvements have vacated, and KYTC has physical possession and right to remove, salvage, or demolish all improvements. Just Compensation has been paid or deposited with the court for most parcels. Just Compensation for all pending parcels will be paid or deposited with the court prior to AWARD of construction contract

Condition # 3 (Additional Right of Way Required with Exception)

The acquisition or right of occupancy and use of a few remaining parcels are not complete and/or some parcels still have occupants. All remaining occupants have had replacement housing made available to them in accordance with 49 CFR 24.204. KYTC is hereby requesting authorization to advertise this project for bids and to proceed with bid letting even though the necessary right of way will not be fully acquired, and/or some occupants will not be relocated, and/or the just compensation will not be paid or deposited with the court for some parcels until after bid letting. KYTC will fully meet all the requirements outlined in 23 CFR 635.309(c)(3) and 49 CFR 24.102(j) and will expedite completion of all acquisitions, relocations, and full payments after bid letting and prior to AWARD of the construction contract or force account construction.

Total Number of Parcels on Project	EXCEPTION (S) Parcel #	ANTICIPATED DATE OF POSSESSION WITH EXPLANATION
Number of Parcels That Have Been Acquired		
Signed Deed		
Condemnation		
Signed ROE		

Notes/ Comments (Use Additional Sheet if necessary)

LPA RW Project Manager		Right of Way Supervisor	
Printed Name		Printed Name	Tom Boykin
Signature		Signature	<i>[Signature]</i>
Date		Date	8-14-17
Right of Way Director		FHWA	
Printed Name	DM Log	Printed Name	
Signature	<i>[Signature]</i>	Signature	
Date	14 Aug 17	Date	

UTILITIES AND RAIL CERTIFICATION NOTE

**JEFFERSON COUNTY, FD04 056 92694 01C
SAFETY IMPROVEMENTS TO PALATKA ROAD (KY-1142) MP 0.0
TO MP 1.73.
5-8803.00)**

Utility coordination efforts conducted by the project sponsor have determined that no significant utility relocation work is required to complete the project. Any work pertaining to these utility facilities is defined in the bid package and is to be carried out as instructed by the Kentucky Transportation Cabinet. The contractor will be responsible for any coordination or adjustments that are discussed or quantified in the proposal.

THE FOLLOWING RAIL COMPANIES HAVE FACILITIES IN CONJUNCTION WITH THIS PROJECT AS NOTED

No Rail Involved Minimal Rail Involved (See Below) Rail Involved (See Below)

UNDERGROUND FACILITY DAMAGE PROTECTION – BEFORE YOU DIG

The contractor shall make every effort to protect underground facilities from damage as prescribed in the Underground Facility Damage Protection Act of 1994, Kentucky Revised Statute KRS 367.4901 to 367.4917. It is the contractor's responsibility to determine and take steps necessary to be in compliance with federal and state damage prevention directives. The contractor is instructed to contact KY 811 for the location of existing underground utilities. Contact shall be made a minimum of two (2) and no more than ten (10) business days prior to excavation.

The contractor shall submit Excavation Locate Requests to the Kentucky Contact Center (KY 811) via web ticket entry. The submission of this request does not relieve the contractor from the responsibility of contacting non-member facility owners, whom are to be contacted through their individual Protection Notification Center. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area. Non-compliance with these directives can result in the enforcement of penalties.

SPECIAL CAUTION NOTE – PROTECTION OF UTILITIES

The contractor will be responsible for contacting all utility facility owners on the subject project to coordinate his activities. The contractor will coordinate his activities to minimize and, where possible, avoid conflicts with utility facilities. Due to the nature of the work proposed, it is unlikely to conflict with the existing utilities beyond minor facility adjustments. Where conflicts with utility facilities are unavoidable, the contractor will coordinate any necessary relocation work with the facility owner and Resident Engineer. The

Kentucky Transportation Cabinet maintains the right to remove or alter portions of this contract if a utility conflict occurs.

UTILITIES AND RAIL CERTIFICATION NOTE

**JEFFERSON COUNTY, FD04 056 92694 01C
 SAFETY IMPROVEMENTS TO PALATKA ROAD (KY-1142) MP 0.0
 TO MP 1.73.
 5-8803.00)**

The utility facilities as noted in the previous section(s) have been determined using data garnered by varied means and with varying degrees of accuracy: from the facility owners, a result of S.U.E., field inspections, and/or reviews of record drawings. The facilities defined may not be inclusive of all utilities in the project scope and are not Level A quality, unless specified as such. It is the contractor’s responsibility to verify all utilities and their respective locations before excavating.

Please Note: The information presented in this Utility Note is informational in nature and the information contained herein is not guaranteed.

AREA UTILITIES CONTACT LIST AS PROVIDED BY KY 811

	<u>Utility Company/Agency</u>	<u>Contact Name</u>	<u>Contact Information</u>
1.	LG&E KU (Electric) 820 West Broadway Louisville, KY 40202 LG&E Emergency Number (502) 589-1444 LG&E and KU Emergency Number 1-800-331-7370		Greg Geiser work: (502) 627-3708 Greg.Geiser@LGE-KU.com
2.	LG&E (Gas) 820 West Broadway Louisville, KY 40202 Gas Emergency Number (502) 589-5511 LG&E and KU Emergency Number 1-800-331-7370		Greg Geiser work: (502) 627-3708 Greg.Geiser@LGE-KU.com
3.	Louisville Water Company 550 South Third Street Louisville, KY 40202		Daniel Tegene, PE (502) 569-3649 DTegene@LWCKy.com
4.	AT&T KY 1350 E. John Rowan Blvd Bardstown, KY 40004		Scott Roche sr8832@att.com (502) 348-4528
5.	Metropolitan Sewer District 700 West Liberty Street Louisville, KY 40203-1911		Brandon Flaherty Brandon.Flaherty@LouisvilleMSD.org Office: (502) 540-6632 Cell: (502) 381-0804

UTILITIES AND RAIL CERTIFICATION NOTE

**JEFFERSON COUNTY, FD04 056 92694 01C
SAFETY IMPROVEMENTS TO PALATKA ROAD (KY-1142) MP 0.0
TO MP 1.73.
5-8803.00)**

- Greg Powell
Greg.Powell@LouisvilleMSD.org
6. Charter Communications
10168 Linn Station Road
Suite 120
Louisville, KY 40223
- Deno Barbour
Cell: (502) 664-7395
Office: (502) 357-4376
Dwight.Barbour@TWCable.com
Kevin Mercer
(502) 817-5055 – Cell
(502) 357-4724 - Office
kevin.mercer@charter.com
7. Texas Gas Transmission Corporation
10327 Gaslight Way
Louisville, KY 40299
- John Weaver
(502) 438-2407
John.Weaver@BWPMLP.com

Howard Menser
Howard.Menser@BWPMLP.com
Office: (502) 491-0251
Cell: (502) 396-2418
8. Marathon Pipeline, LLC
539 S Main St, Rm 7642
Findlay, OH 45840
- Greg Newman
gcneman@marathonpetroleum.com
(419) 884-0800 ext. 236
9. Indiana Gas Company Inc
d.b.a. Vectren Energy Delivery of Indiana, Inc
or
Ohio River Pipeline Corporation
2520 Lincoln Drive
Clarksville, Indiana 47129
- Mary Barber
MBarber@Vectren.com
(812) 948-4952
- Line Maintained By**
Texas Gas Transmission, LLC
3800 Frederica Street
Owensboro, Kentucky 42302
Cell: (270) 485-1152
10. Indiana Utilities Corporation
- Scott Schmitt

UTILITIES AND RAIL CERTIFICATION NOTE

**JEFFERSON COUNTY, FD04 056 92694 01C
SAFETY IMPROVEMENTS TO PALATKA ROAD (KY-1142) MP 0.0
TO MP 1.73.
5-8803.00)**

123 West Chestnut Street
Corydon, Indiana 47112
(812) 738-3235

- 11.** Sprint - Fiber Optics
11370 Enterprise Park Dr.
Sharonville, OH 45241

- 12.** Mid-Valley Pipeline Company
4910 Limaburg Road
Burlington, KY 41005
FAX (866) 699-1185

- 13.** Level 3 Communications (Transmission)
848 S. 8th St.
Louisville, KY 40203

Level 3 Communications (Distribution)
11857 Commonwealth Drive
Louisville, KY 40299

3770 Lucius Rd.
Columbia, SC 29201

scotts@indianautilitiescorp.com

Corey Thatcher

coreyt@indianautilitiescorp.com

Kevin Kinney

Ron Timberlake

Jackie Rogers

JackieR@IndianaUtilitiesCorp.com

Joe Thomas

Joeseph.J.Thomas@sprint.com

Office (440) 447-6163

Cell (937) 209-9754

Todd Calfee (Richard)
(859) 371-4469 ext. 14
(859) 630-8271

RTCALFEE@SunocoLogistics.com

Kevin Webster

Kevin.Webster@Level3.com

Office (502) 777-8622

Cell (502) 777-8622

Fax (502) 561-6950

Mark Sewell

Mark.Sewell@Level3.com

Office (502) 389-4811

Cell (502) 295-0939

Harold Waters

Harold.Waters@Level3.com

Office (502) 719-2393

Cell (502) 435-0956

Russ Wheat, Relocation Project Manager

russ.wheat@level3.com

Office (803) 239-1116

Cell (803) 206-9563

UTILITIES AND RAIL CERTIFICATION NOTE

**JEFFERSON COUNTY, FD04 056 92694 01C
SAFETY IMPROVEMENTS TO PALATKA ROAD (KY-1142) MP 0.0
TO MP 1.73.
5-8803.00)**

Send to Relocations Email

Relocations

relo@level3.com

- | | |
|---|--|
| <p>14. Jefferson County Public Schools (JCPS)
C B Young
Building 7
3001 Crittenden Dr.
Louisville. KY 40209</p> | <p>Jeff Hardy
Jeff.Hardy@Jefferson.kyschools.us
(502) 485-7975
Scott McMahan (Team Fishel)
cell: (502) 664-9312
office: (502) 456-2900</p> |
| <p>15. Kentucky Data Link (KDL now Windstream)
Project Manager
111 S. Main St.
Elizabethtown, KY 42701</p> | <p>James Galvin
Office: (270) 765-1818
Cell: (TBD)
Email – james.galvin@windstream.com
Mark Ware
Mark.Ware@windstream.com</p> |
| <p>16. AT&T Legacy
7555 E. Pleasant Valley Rd. – Suite 140
Independence, OH 44131</p> | <p>Mike Diederich
MD4145@att.com
PHONE - (216) 750.0135
CELL - (216) 212-8556
Don Garr
DRGarr@Hughes.net
Cell: (502) 741-8374</p> |
| <p>17. TWTelecom (now Level3 Comm.)
11857 Commonwealth Drive
Louisville, KY 40299</p> <p>333 West Vine Street, Suite 330
Lexington, KY 40507</p> | <p>Harold Waters
harold.waters@level3.com
(502) 435-0956</p> <p>Gerald Long
Gerald.Long@level3.com
(859) 550-2201</p> |
| <p>18. City of Taylorsville Sewer & Water
70 Taylorsville Rd., P O Box 279
Taylorsville, KY 40071</p> | <p>Harold Compton
HCompton@TaylorsvilleWater.org
(502) 477-3235
Fax: (502) 477-1310</p> |
| <p>19. CenturyLink
260 Winn Ave</p> | <p>Jim Trapnell
jim.trapnell@centurylink.com</p> |

UTILITIES AND RAIL CERTIFICATION NOTE

**JEFFERSON COUNTY, FD04 056 92694 01C
SAFETY IMPROVEMENTS TO PALATKA ROAD (KY-1142) MP 0.0
TO MP 1.73.
5-8803.00)**

- | | |
|---|--|
| Winchester, KY 40391
CenturyLink National Network Construction
3625 Brookside Parkway Suite 400
Alpharetta, GA 30022 | Cell (859) 806-5833
Chad Kirkland
Chadrick.kirkland@centurylink.com
Cell (770) 328-2449 |
| Qwest Communications Company, LLC
700 W Mineral Ave, UTD2734
Littleton, Colorado 80120 | George McElvain
George.McElvain@Qwest.com
(303) 992-9931
Cell: (720) 260-2514
Fax: (303) 707-3252 |
| 21. Shelby Energy Cooperative
P.O. Box 311, 620 Old Finchville Road
Shelbyville, KY 40065
(502) 633-4420 | Jason Ginn
Jason@ShelbyEnergy.com
cell: (502) 643-2778 |
| 22. Atmos Energy
105 Hudson Blvd
Shelbyville, KY 40065
(502) 633-2831 ext. 104 | Bernie Anderson
cell: (502) 321-8073
Bernie.Anderson@AtmosEnergy.com
OR
Ryne White
Ryne.white@atmosenergy.com
(270) 929-1706
Send to all contacts |
| 23. Crown Castle Network Operations
10300 Ormsby Park Place
Suite 501
Louisville, KY 40223 | Rebecca Gray
rebecca.gray@CrownCastle.com
(502)318-1313
Chris Gladstone
Chris.Gladstone@CrownCastle.com
(502) 689-2162 |
| 24. Zayo
9209 Castlegate Dr
Indianapolis, IN 46256 | Manny Naves
manuel.naves@zayo.com
(812) 459-9696 |
| 25. MCI/Verizon(Owns WUTEL)
MCI/Verizon
730 West Henry Street | David Dickerson
david.b.dickerson@xo.com
Office: (615) 777-7855 |

UTILITIES AND RAIL CERTIFICATION NOTE

**JEFFERSON COUNTY, FD04 056 92694 01C
SAFETY IMPROVEMENTS TO PALATKA ROAD (KY-1142) MP 0.0
TO MP 1.73.
5-8803.00)**

Indianapolis, IN 46225

Cell: (615) 507-5287

Dave Wiley (Field)
(502) 439-8783
dave.wiley@verizon.com

26. TRIMARC
Public Safety & Transportation Systems
901 West Main Street
Louisville, KY 40202

Todd Hood
Todd.Hood@ngc.com
Office: (502) 587-6624
Cell: (502) 307-7456

27. Lighttower Network LLC
2701 Michell Arc
Lexington, KY 40511

Mike Prather
Office-585-445-5823
Cell: 585-330-7825
mprather@lighttower.com

28. Google Fiber
101 N. 7th Street, Ste 400

Louisville, KY 40202

Paul Cobb
cell 650-253-7860

pcobb@google.com

AIRPORT CONTACTS

Bruce Little (502) 375-7363 – FAA Location Manager
Jack Stauble (502) 664-9637 cell – FAA Location Technician

Chuck Hensley (502) 380-8356 ext. 356 –
Construction Manager
Louisville Regional Airport Authority

Andy Hepfinger (502) 329-3706 – UPS Construction
Brian Knesco (502) 741-2922 – UPS Construction

PART II
SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

Any reference in the plans or proposal to previous editions of the *Standard Specifications for Road and Bridge Construction* and *Standard Drawings* are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2012* and *Standard Drawings, Edition of 2016*.

SUPPLEMENTAL SPECIFICATIONS

The contractor shall use the Supplemental Specifications that are effective at the time of letting.
The Supplemental Specifications can be found at the following link:

<http://transportation.ky.gov/Construction/Pages/Kentucky-Standard-Specifications.aspx>

PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

**TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS**

**LABOR AND WAGE REQUIREMENTS
APPLICABLE TO OTHER THAN FEDERAL-AID SYSTEM PROJECTS**

- I. Application
- II. Nondiscrimination of Employees (KRS 344)

I. APPLICATION

1. These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work or by subcontract. The contractor's organization shall be construed to include only workmen employed and paid directly by the contractor and equipment owned or rented by him, with or without operators.

2. The contractor shall insert in each of his subcontracts all of the stipulations contained in these Required Provisions and such other stipulations as may be required.

3. A breach of any of the stipulations contained in these Required Provisions may be grounds for termination of the contract.

3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual because of his race, color, religion, national origin, sex, disability or age forty (40) and over, in admission to, or employment in any program established to provide apprenticeship or other training.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor will take such action with respect to any subcontract or purchase order as the administrating agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

Revised: January 25, 2017

II. NONDISCRIMINATION OF EMPLOYEES

**AN ACT OF THE KENTUCKY
GENERAL ASSEMBLY TO PREVENT
DISCRIMINATION IN EMPLOYMENT
KRS CHAPTER 344
EFFECTIVE JUNE 16, 1972**

The contract on this project, in accordance with KRS Chapter 344, provides that during the performance of this contract, the contractor agrees as follows:

1. The contractor shall not fail or refuse to hire, or shall not discharge any individual, or otherwise discriminate against an individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, national origin, sex, disability or age (forty and above); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age forty (40) and over. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, except that such a notice or advertisement may indicate a preference, limitation, or specification based on religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, when religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, is a bona fide occupational qualification for employment.

EXECUTIVE BRANCH CODE OF ETHICS

In the 1992 regular legislative session, the General Assembly passed and Governor Brereton Jones signed Senate Bill 63 (codified as KRS 11A), the Executive Branch Code of Ethics, which states, in part:

KRS 11A.040 (7) provides:

No present or former public servant shall, within six (6) months following termination of his office or employment, accept employment, compensation, or other economic benefit from any person or business that contracts or does business with, or is regulated by, the state in matters in which he was directly involved during the last thirty-six (36) months of his tenure. This provision shall not prohibit an individual from returning to the same business, firm, occupation, or profession in which he was involved prior to taking office or beginning his term of employment, or for which he received, prior to his state employment, a professional degree or license, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved during the last thirty-six (36) months of his tenure in state government. This subsection shall not prohibit the performance of ministerial functions, including but not limited to filing tax returns, filing applications for permits or licenses, or filing incorporation papers, nor shall it prohibit the former officer or public servant from receiving public funds disbursed through entitlement programs.

KRS 11A.040 (9) states:

A former public servant shall not represent a person or business before a state agency in a matter in which the former public servant was directly involved during the last thirty-six (36) months of his tenure, for a period of one (1) year after the latter of:

- a) The date of leaving office or termination of employment; or
- b) The date the term of office expires to which the public servant was elected.

This law is intended to promote public confidence in the integrity of state government and to declare as public policy the idea that state employees should view their work as a public trust and not as a way to obtain private benefits.

If you have worked for the executive branch of state government within the past six months, you may be subject to the law's prohibitions. The law's applicability may be different if you hold elected office or are contemplating representation of another before a state agency.

Also, if you are affiliated with a firm which does business with the state and which employs former state executive-branch employees, you should be aware that the law may apply to them.

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, 3 Fountain Place, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Revised: January 27, 2017

Kentucky Equal Employment Opportunity Act of 1978

The requirements of the Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) shall apply to this Contract. The apparent low Bidder will be required to submit EEO forms to the Division of Construction Procurement, which will then forward to the Finance and Administration Cabinet for review and approval. No award will become effective until all forms are submitted and EEO/CC has certified compliance. The required EEO forms are as follows:

- EEO-1: Employer Information Report
- Affidavit of Intent to Comply
- Employee Data Sheet
- Subcontractor Report

These forms are available on the Finance and Administration's web page under ***Vendor Information, Standard Attachments and General Terms*** at the following address:
<https://www.eProcurement.ky.gov>.

Bidders currently certified as being in compliance by the Finance and Administration Cabinet may submit a copy of their approval letter in lieu of the referenced EEO forms.

For questions or assistance please contact the Finance and Administration Cabinet by email at **finance.contractcompliance@ky.gov** or by phone at 502-564-2874.

EMPLOYEE RIGHTS UNDER THE FAIR LABOR STANDARDS ACT

THE UNITED STATES DEPARTMENT OF LABOR WAGE AND HOUR DIVISION

FEDERAL MINIMUM WAGE

\$7.25

 PER HOUR

BEGINNING JULY 24, 2009

OVERTIME PAY

At least 1½ times your regular rate of pay for all hours worked over 40 in a workweek.

CHILD LABOR

An employee must be at least **16** years old to work in most non-farm jobs and at least **18** to work in non-farm jobs declared hazardous by the Secretary of Labor.

Youths **14** and **15** years old may work outside school hours in various non-manufacturing, non-mining, non-hazardous jobs under the following conditions:

No more than

- **3** hours on a school day or **18** hours in a school week;
- **8** hours on a non-school day or **40** hours in a non-school week.

Also, work may not begin before **7 a.m.** or end after **7 p.m.**, except from June 1 through Labor Day, when evening hours are extended to **9 p.m.** Different rules apply in agricultural employment.

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TIP CREDIT

Employers of “tipped employees” must pay a cash wage of at least \$2.13 per hour if they claim a tip credit against their minimum wage obligation. If an employee's tips combined with the employer's cash wage of at least \$2.13 per hour do not equal the minimum hourly wage, the employer must make up the difference. Certain other conditions must also be met.

ENFORCEMENT

The Department of Labor may recover back wages either administratively or through court action, for the employees that have been underpaid in violation of the law. Violations may result in civil or criminal action.

Employers may be assessed civil money penalties of up to \$1,100 for each willful or repeated violation of the minimum wage or overtime pay provisions of the law and up to \$11,000 for each employee who is the subject of a violation of the Act's child labor provisions. In addition, a civil money penalty of up to \$50,000 may be assessed for each child labor violation that causes the death or serious injury of any minor employee, and such assessments may be doubled, up to \$100,000, when the violations are determined to be willful or repeated. The law also prohibits discriminating against or discharging workers who file a complaint or participate in any proceeding under the Act.

ADDITIONAL INFORMATION

- Certain occupations and establishments are exempt from the minimum wage and/or overtime pay provisions.
- Special provisions apply to workers in American Samoa and the Commonwealth of the Northern Mariana Islands.
- Some state laws provide greater employee protections; employers must comply with both.
- The law requires employers to display this poster where employees can readily see it.
- Employees under 20 years of age may be paid \$4.25 per hour during their first 90 consecutive calendar days of employment with an employer.
- Certain full-time students, student learners, apprentices, and workers with disabilities may be paid less than the minimum wage under special certificates issued by the Department of Labor.

For additional information:



1-866-4-USWAGE

(1-866-487-9243)

TTY: 1-877-889-5627



WWW.WAGEHOUR.DOL.GOV

U.S. Department of Labor | Wage and Hour Division

PART IV
INSURANCE

INSURANCE

The Contractor shall procure and maintain the following insurance in addition to the insurance required by law:

- 1) Commercial General Liability-Occurrence form – not less than \$2,000,000 General aggregate, \$2,000,000 Products & Completed Aggregate, \$1,000,000 Personal & Advertising, \$1,000,000 each occurrence.
- 2) Automobile Liability- \$1,000,000 per accident
- 3) Employers Liability:
 - a) \$100,000 Each Accident Bodily Injury
 - b) \$500,000 Policy limit Bodily Injury by Disease
 - c) \$100,000 Each Employee Bodily Injury by Disease
- 4) The insurance required above must be evidenced by a Certificate of Insurance and this Certificate of Insurance must contain one of the following statements:
 - a) "policy contains no deductible clauses."
 - b) "policy contains _____ (amount) deductible property damage clause but company will pay claim and collect the deductible from the insured."
- 5) **KENTUCKY WORKMEN'S COMPENSATION INSURANCE.** The contractor shall furnish evidence of coverage of all his employees or give evidence of self-insurance by submitting a copy of a certificate issued by the Workmen's Compensation Board.

The cost of insurance is incidental to all contract items. All subcontractors must meet the same minimum insurance requirements.

PART V
BID ITEMS

PROPOSAL BID ITEMS

181012

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Report Date 3/29/18

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	58.00	TON		\$	
0020	00100		ASPHALT SEAL AGGREGATE	2.36	TON		\$	
0030	00103		ASPHALT SEAL COAT	.26	TON		\$	
0040	00212		CL2 ASPH BASE 1.00D PG64-22	31.00	TON		\$	
0050	00307		CL2 ASPH SURF 0.38B PG64-22	10.00	TON		\$	
0060	00356		ASPHALT MATERIAL FOR TACK	.11	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0070	02403		REMOVE CONCRETE MASONRY	11.00	CUYD		\$	
0080	02460		REMOVE TREES OR STUMPS	1.00	EACH		\$	
0090	02545		CLEARING AND GRUBBING 0.02 ACRES	1.00	LS		\$	
0100	02562		TEMPORARY SIGNS	61.00	SQFT		\$	
0110	02575		DITCHING AND SHOULDERING	143.00	LF		\$	
0120	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0130	02720		SIDEWALK-4 IN CONCRETE	3.00	SQYD		\$	
0140	02721		REMOVE CONCRETE SIDEWALK	3.00	SQYD		\$	
0150	02726		STAKING	1.00	LS		\$	
0160	05950		EROSION CONTROL BLANKET	153.00	SQYD		\$	
0170	06510		PAVE STRIPING-TEMP PAINT-4 IN	2,785.00	LF		\$	
0180	06517		PAVE STRIPING-PERM PAINT-12 IN	94.00	LF		\$	
0190	06568		PAVE MARKING-THERMO STOP BAR-24IN	16.00	LF		\$	
0200	21289ED		LONGITUDINAL EDGE KEY	226.00	LF		\$	
0210	23158ES505		DETECTABLE WARNINGS	24.00	SQFT		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0220	00462		CULVERT PIPE-18 IN	7.00	LF		\$	
0230	00520		STORM SEWER PIPE-12 IN	28.00	LF		\$	
0240	00521		STORM SEWER PIPE-15 IN	24.00	LF		\$	
0250	00522		STORM SEWER PIPE-18 IN	58.00	LF		\$	
0260	01432		SLOPED BOX OUTLET TYPE 1-15 IN THIS IS ESTIMATED-FIELD VERIFY	2.00	EACH		\$	
0270	01433		SLOPED BOX OUTLET TYPE 1-18 IN	3.00	EACH		\$	
0280	01442		SLOPED AND PARALLEL HEADWALL-12 IN	2.00	EACH		\$	
0290	01544		DROP BOX INLET TYPE 11	2.00	EACH		\$	
0300	01726		SAFETY BOX INLET-18 IN SDB-1	1.00	EACH		\$	
0310	02157		PAVED DITCH TYPE 1	7.50	SQYD		\$	
0320	02701		TEMP SILT FENCE	500.00	LF		\$	
0330	02704		SILT TRAP TYPE B	3.00	EACH		\$	
0340	02705		SILT TRAP TYPE C	6.00	EACH		\$	
0350	02707		CLEAN SILT TRAP TYPE B	3.00	EACH		\$	

PROPOSAL BID ITEMS

181012

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Report Date 3/29/18

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0360	02708		CLEAN SILT TRAP TYPE C	6.00	EACH		\$	
0370	05963		INITIAL FERTILIZER	.10	TON		\$	
0380	05964		20-10-10 FERTILIZER	.10	TON		\$	
0390	05985		SEEDING AND PROTECTION	520.00	SQYD		\$	
0400	05992		AGRICULTURAL LIMESTONE	.50	TON		\$	

Section: 0004 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0410	04792		CONDUIT-1 IN	20.00	LF		\$	
0420	04811		ELECTRICAL JUNCTION BOX TYPE B	3.00	EACH		\$	
0430	04820		TRENCHING AND BACKFILLING	50.00	LF		\$	
0440	04830		LOOP WIRE	895.00	LF		\$	
0450	04844		CABLE-NO. 14/5C	1,275.00	LF		\$	
0460	04850		CABLE-NO. 14/1 PAIR	75.00	LF		\$	
0470	04884		ANCHOR	4.00	EACH		\$	
0480	04885		MESSENGER-10800 LB	420.00	LF		\$	
0490	04895		LOOP SAW SLOT AND FILL	350.00	LF		\$	
0500	04932		INSTALL STEEL STRAIN POLE	2.00	EACH		\$	
0510	20093NS835		INSTALL PEDESTRIAN HEAD-LED	2.00	EACH		\$	
0520	20094ES835		TEMP RELOCATION OF SIGNAL HEAD	16.00	EACH		\$	
0530	20188NS835		INSTALL LED SIGNAL-3 SECTION	8.00	EACH		\$	
0540	20390NS835		INSTALL COORDINATING UNIT	1.00	EACH		\$	
0550	21743NN		INSTALL PEDESTRIAN DETECTOR	2.00	EACH		\$	
0560	24955ED		REMOVE SIGNAL EQUIPMENT	1.00	EACH		\$	

Section: 0005 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0570	02569		DEMOBILIZATION	1.00	LS		\$	