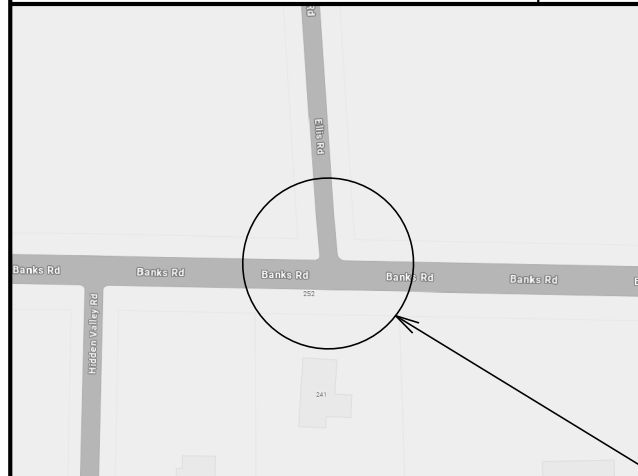


FAYETTE COUNTY DEPARTMENT OF PUBLIC WORKS

PLAN AND PROFILE OF PROPOSED BANKS RD AT ELLIS RD TRAFFIC SIGNAL IMPROVEMENTS



LOCATION SKETCH

PROJECT LOCATION

DESIGN SPEED:

BANKS RD: 35 MPH
ELLIS RD: 35 MPH

DESIGN DATA:

ROADWAY CLASSIFICATION
BANKS RD: MINOR ARTERIAL
ELLIS RD: LOCAL

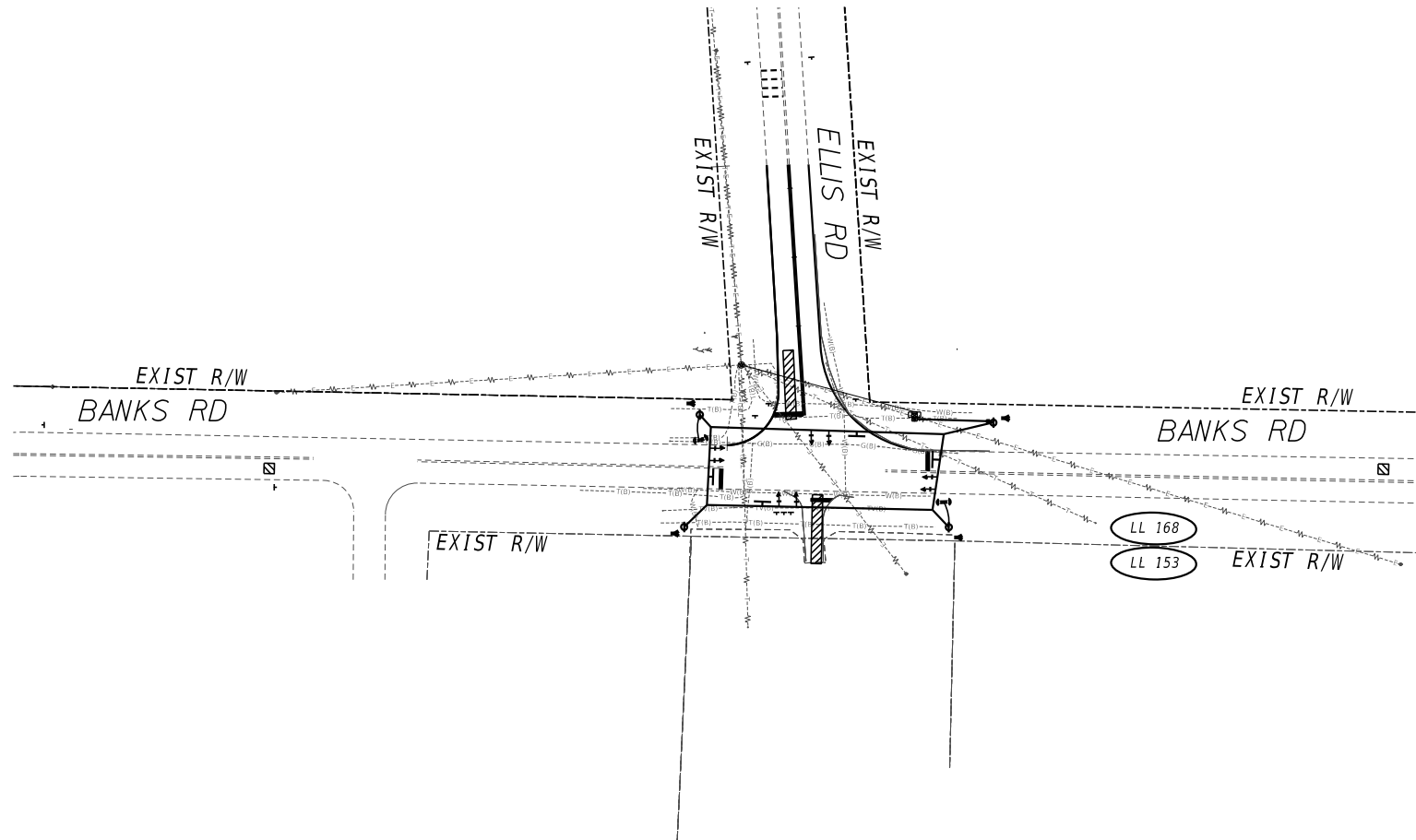
THIS PROJECT IS 100% IN
FAYETTE COUNTY AND IS
100% IN CONG. DIST. NO. 3.

ADT (2024)
BANKS RD - 9,726 VPD
ELLIS RD - 5,595 VPD

THIS PROJECT HAS BEEN PREPARED
USING THE HORIZONTAL GEORGIA
COORDINATE SYSTEM OF 1984 (NAD
1983)/94 WEST ZONE, AND THE
NORTH AMERICAN VERTICAL DATUM
(NAVD) OF 1988.

GDOT STATE FUNCTIONAL CLASSIFICATION MAP:
[HTTPS://IT05.MAPS.ARCGIS.COM/APPS/WEBAPPVIEWER/
INDEX.HTML?ID=962A2591F91A4303AEAFE016BA8DB96B](https://it05.maps.arcgis.com/apps/webappviewer/index.html?id=962a2591f91a4303aeafe016ba8db96b)

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND FAYETTE COUNTY IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.



NOTE :
THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE 2025 CONSTRUCTION STANDARDS AND DETAILS BOOK AND ATTACHED APPLICABLE REVISIONS. THE 2025 CONSTRUCTION STANDARDS AND DETAILS BOOK IS AVAILABLE AT: [HTTP://MYDOCS.DOT.GA.GOV/INFO/GDOTPUBS/CONSTRUCTIONSTANDARDSANDDETAILS/FORMS/ALLITEMS.ASPX](http://mydocs.dot.ga.gov/info/gdotpubs/constructionstandardsanddetails/forms/allitems.aspx). ANY REVISIONS CONTAINED WITHIN THIS PLAN SET SUPERSEDE THE 2025 CONSTRUCTION STANDARDS AND DETAILS BOOK WHICH THEY REVISE OR IN WHICH THERE IS A CONFLICT.

NOTE :
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO " STATE HIGHWAY DEPARTMENT OF GEORGIA ", " STATE HIGHWAY DEPARTMENT ", " GEORGIA STATE HIGHWAY DEPARTMENT ", " HIGHWAY DEPARTMENT ", OR " DEPARTMENT " WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.



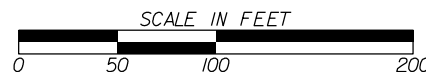
PREPARED BY : _____
DESIGN

DATE	
PLANS COMPLETED	03-13-2026
REVISIONS	







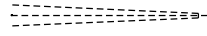













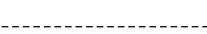




POND

3500 Parkway Lane
Suite 500
Peachtree Corners, Ga. 30092
Phone 678-336-7740
Fax 678-336-7744
Web www.pondco.com


















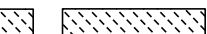
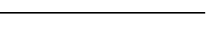








LEGEND - TRAFFIC SIGNALS






EXISTING

-  CONTROLLER CABINET
-  STRAIN POLE
-  TIMBER POLE
-  DOWN GUY
-  MAST ARM
-  STREET LIGHT
-  3 SECTION FACE
-  3 SECTION FACE W/BACKPLATE
-  4 SECTION FACE
-  4 SECTION FACE W/BACKPLATE
-  EXISTING PULLBOX, TP 2
-  EXISTING PULLBOX, TP 3
-  EXISTING PULLBOX, TP 6
-  OVERHEAD SIGN
-  PEDESTAL POLE
-  PED SIGNAL FACE
-  CURB CUT RAMP, ALL TYPE
-  VIRTUAL DETECTION ZONE RADAR
-  CONDUIT
-  SIGN POST
-  RADAR DETECTION DEVICE
-  MAGNETOMETER DETECTION DEVICE
-  VIDEO DETECTION DEVICE

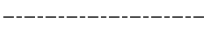
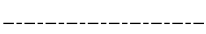
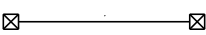

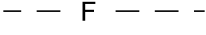
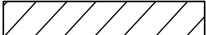








PROPOSED

-  CONTROLLER CABINET
-  STRAIN POLE
-  TIMBER POLE
-  DOWN GUY
-  MAST ARM
-  STREET LIGHT
-  3 SECTION FACE W/BACKPLATE
-  4 SECTION FACE W/BACKPLATE
-  4/5 SECTION (CLUSTER/T-SHAPE) FACE W/BACKPLATE
-  OVERHEAD SIGN
-  PEDESTAL POLE
-  PED SIGNAL FACE
-  CURB CUT RAMP
-  PULLBOX, TP 2
-  PULLBOX, TP 3
-  PULLBOX, TP 4S
-  PULLBOX, TP 6
-  VIRTUAL DETECTION ZONE RADAR
-  CONDUIT, (OPEN TRENCH)
-  CONDUIT, DIRECTIONAL BORE
-  SIGN POST
-  RADAR DETECTION DEVICE
-  MAGNETOMETER DETECTION DEVICE
-  VIDEO DETECTION DEVICE
-  POWER SERVICE

RELOCATED

-  3 SECTION FACE W/BACKPLATE
-  4 SECTION FACE W/BACKPLATE
-  4/5 SECTION (CLUSTER/T-SHAPE) FACE W/BACKPLATE
-  PEDESTAL POLE
-  PED SIGNAL FACE

AGENCY SPECIFIC

-  PROPERTY LINE
-  EXISTING R/W LINE
-  REQUIRED R/W LINE
-  CONSTRUCTION CUT LIMIT
-  CONSTRUCTION FILL LIMIT
-  EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES
-  EASEMENT FOR CONSTR OF SLOPES
-  EASEMENT FOR CONSTR OF DRIVES
-  BLA BEGIN LIMIT OF ACCESS
-  ELA END LIMIT OF ACCESS
-  REQ'D LIMIT OF ACCESS
-  REQ'D LIMIT OF ACCESS & R/W
-  ORANGE BARRIER FENCE
-  ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

REVISION DATES

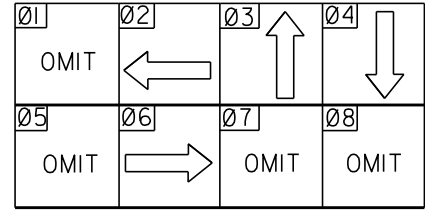
NO.	DATE	DESCRIPTION

SIGNAL PLANS
BANKS RD AT ELLIS RD

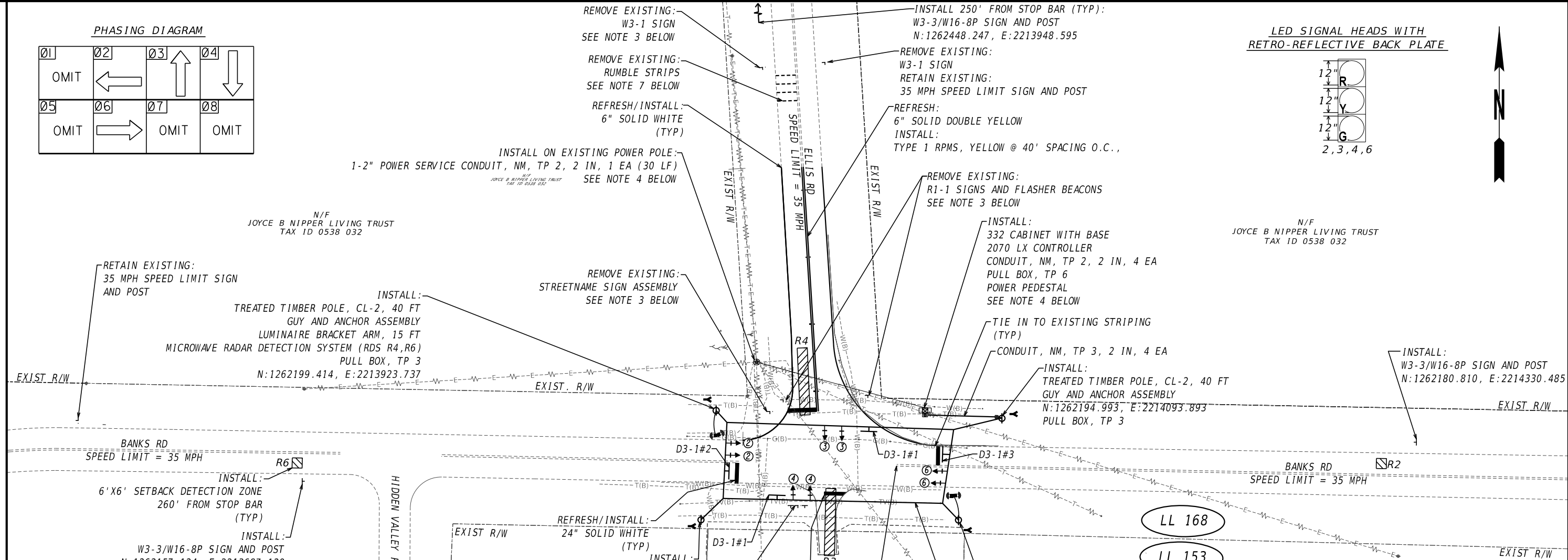
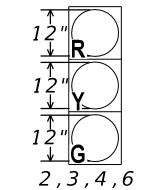
LEGEND

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	27-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

PHASING DIAGRAM



LED SIGNAL HEADS WITH RETRO-REFLECTIVE BACK PLATE



- NOTES:
- CONTRACTOR SHALL INSTALL LOUVERED COVERS ON PHASE 3 SIGNAL HEADS. COST TO BE INCLUDED IN PAY ITEM 647-1000 TRAFFIC SIGNAL INSTALLATION NO. 1.
 - CONTRACTOR SHALL REMOVE EXISTING 5" DOUBLE YELLOW STRIPING THAT EXTENDS PAST PROPOSED STOP BARS. CONTRACTOR SHALL UTILIZE HYDRO-BLASTING METHOD ONLY FOR ERADICATION.
 - CONTRACTOR SHALL REMOVE EXISTING D3-1 STREET SIGN ASSEMBLY, R1-1 STOP SIGN ASSEMBLIES WITH ASSOCIATED FLASHING BEACONS, AND W3-1 STOP AHEAD SIGN ASSEMBLY. PAYMENT SHALL INCLUDE THE REMOVAL OF ALL COMPONENTS.
 - REFER TO SHEET 27-0005 REGARDING POWER SERVICE POINT REQUIREMENTS.
 - CONTRACTOR SHALL PRUNE BACK TREES AS NEEDED TO ALLOW FOR INSTALLATION OF PROPOSED TIMBER AND TO ENSURE SUFFICIENT OPERATION OF RADAR DETECTION.
 - CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING UTILITIES PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL REMOVE THE EXISTING FOUR RUMBLE STRIP LOCATIONS AT 184', 260', 384' AND 584', RESPECTIVELY, FROM THE PROPOSED STOP BAR. HYDRO-BLASTING METHOD SHALL BE UTILIZED FOR REMOVAL. PAYMENT SHALL BE INCLUDED IN PAY ITEM 210-0100 GRADING COMPLETE.
 - ALL POLES, GUY WIRES AND RELATED EQUIPMENT SHALL BE INSTALLED WITHIN EXISTING RIGHT OF WAY.
 - DUE TO CONSTRAINED RIGHT OF WAY, IF CONTRACTOR DETERMINES THAT SIDEWALK GUY ANCHOR ASSEMBLY IS NEEDED, THIS ASSEMBLY SHALL BE INSTALLED TO AVOID ANY RIGHT OF WAY IMPACTS. SEE SHEET 27-0004 FOR INFORMATION REGARDING THIS BID ALT #1.

SIGNAL LEGEND

	PROPOSED SIGNAL HEAD		PROPOSED 4-SECTION SIGNAL HEAD
	EXISTING SIGNAL HEAD		PROPOSED 5-SECTION OR 4-SECTION SIGNAL HEAD
	RELOCATED SIGNAL HEAD		PEDESTRIAN SIGNAL HEAD

DETECTION LEGEND

	PROPOSED VIRTUAL DETECTION ZONE		PROPOSED INDUCTIVE LOOP
	PROPOSED VIDEO DETECTION CAMERA		PROPOSED MAGNETOMETER
	PROPOSED RADAR		

POND
Architects • Engineers • Planners

SCALE IN FEET

REVISION DATES

NO.	DATE	DESCRIPTION

SIGNAL PLANS

TRAFFIC SIGNAL INSTALLATION NO. 1
BANKS RD AT ELLIS RD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	27-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	

LIST OF MATERIALS

LIST OF MATERIALS IS FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL MATERIALS AND QUANTITIES REQUIRED FOR INSTALLATION.

MATERIALS	UNIT	QUANTITY
CABINET CONTROLLER ASSEMBLIES		
A. CONTROLLER UNIT, MODEL 2070LX	EA	1
E. CABINET ASSEMBLY, 332	EA	1
F. SWITCH PACK (LOAD SWITCH)	EA	4
L. 2018ECLIP SIGNAL MONITOR, TYPE B (ETHERNET)	EA	1
M. AUXILIARY OUTPUT FILE	EA	1
SIGNAL CABLE (14 AWG)		
A. 7 CONDUCTOR, PER 1000 FT	REEL	1
3-SECTION, 12' SIGNAL HEAD LED-, BLACK HOUSING W/BLACK FRONT, PLASTIC	EA	8
BACKPLATE FOR ONE-WAY, 3 SECTION, 12' SIGNAL HEAD, ABS PLASTIC, BLACK W/ RETROREFLECTIVE STRIP	EA	8
HARDWARE FOR SPAN WIRE MOUNTING	EA	8
PULL BOX, PB-2	EA	1
PULL BOX, PB-3	EA	1
PULL BOX, PB-6	EA	1
MISC. MATL. TO COMPLETE INSTALLATION	LUMP SUM	1

DETECTION SYSTEMS LIST OF MATERIALS

DESCRIPTION	UNIT	QUANTITY
937-6010 MICROWAVE DETECTION SYSTEM NO. 1 - BANKS RD AT ELLIS RD	LUMP SUM	1
A. MOUNTING ASSEMBLY	EA	4
B. CABLES	LF	400

PAY ITEMS

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
150-1000	TRAFFIC CONTROL	LUMP SUM	1
210-0100	GRADING COMPLETE	LUMP SUM	1
610-9001	REM SIGN	EA	5
636-1036	HIGHWAY SIGNS, TP 1 MATL. REFL SHEETING, TP 11	SF	81
636-2070	GALV STEEL POSTS, TP 7	LF	93
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 1 - BANKS RD AT ELLIS RD	LUMP SUM	1
639-1240	TREATED TIMBER POLE, CL 2, 40 FT (OVERALL POLE HEIGHT, INCL EMBEDDED DEPTH PLUS ABOVE GROUND)	EA	4
639-1600	GUY AND ANCHOR ASSEMBLY**	EA	4
639-2002	STEEL WIRE STRAIN CABLE, 3/8 IN	LF	450
653-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	120
653-1906	THERMOPLASTIC SOLID TRAF STRIPE, 6 IN, WHITE	LF	380
653-2602	THERMOPLASTIC SOLID TRAF STRIPE, 6 IN, YELLOW	LF	290
654-1001	RAISED PAVEMENT MARKERS TP 1	EA	8
656-0050	REMOVE EXIST SOLID TRAF STRIPE, 5 IN, THERMOPLASTIC	LF	300
680-5275	LUMINAIRE BRACKET ARM, 15 FT	EA	2
682-6120	CONDUIT, RIGID, 2 IN (INCL WEATHERHEAD)	LF	30
682-6233	CONDUIT, NONMETAL, TP 3, 2 IN	LF	120
682-9950	DIRECTIONAL BORE - 5 IN	LF	100
700-9300	SOD	SY	125
937-6010	MICROWAVE DETECTION SYSTEM NO. 1 - BANKS RD AT ELLIS RD	LUMP SUM	1
939-5010	ELECTRICAL POWER SERVICE ASSEMBLY (AERIAL SERVICE POINT)*	EA	1

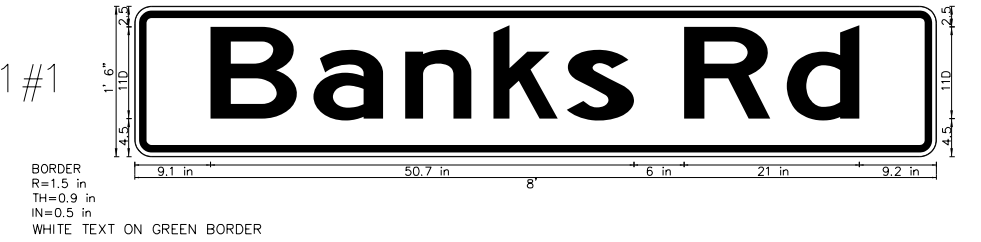
*THE CONTRACTOR SHALL COORDINATE WITH COMETA-FAYETTE EMC REGARDING POWER SERVICE POINT. PAYMENT FOR ALL NECESSARY COMPONENTS/EQUIPMENT SHALL BE INCLUDED IN PAY ITEM 939-5010
ELECTRICAL POWER SERVICE ASSEMBLY, AERIAL SERVICE POINT.

**BID ALT *1 - REPLACE GUY AND ANCHOR ASSEMBLY FOR GUY AND ANCHOR ASSEMBLY, SIDEWALK

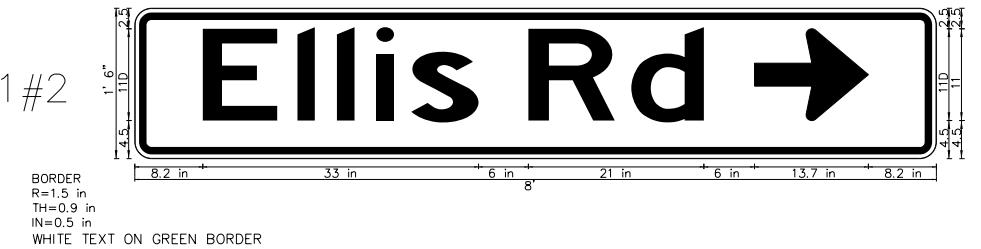
639-1600	GUY AND ANCHOR ASSEMBLY-SIDEWALK**	EA	4
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OVERHEAD STREET NAME SIGNS

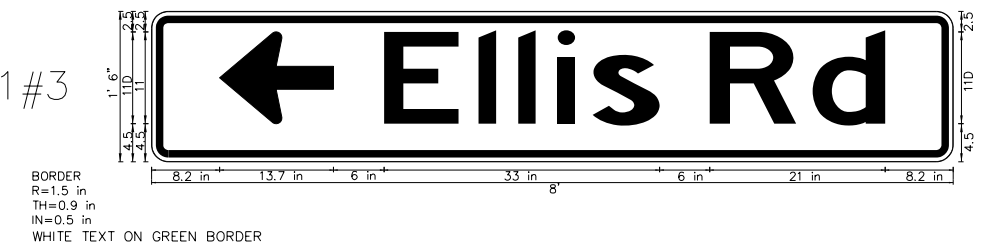
D3-1#1



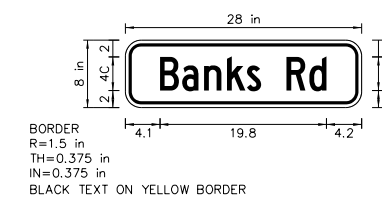
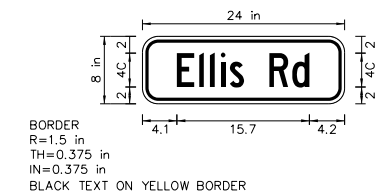
D3-1#2



D3-1#3



W16-8P WARNING SIGNS



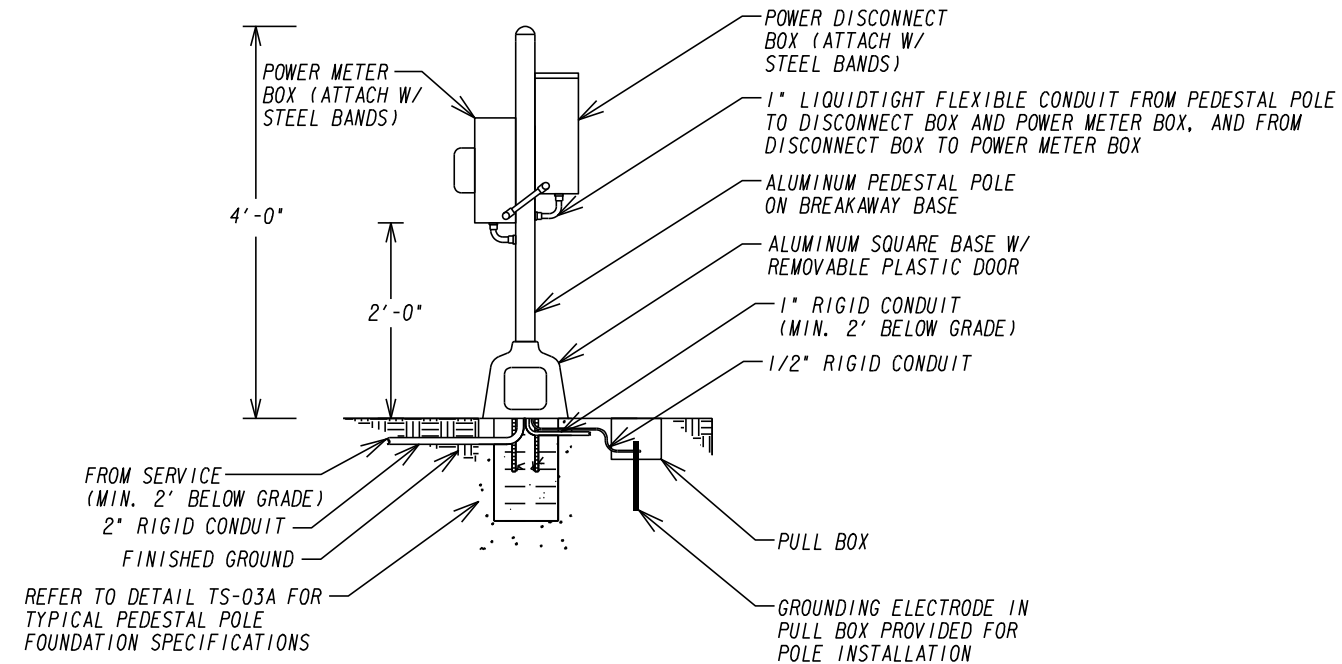
REVISION DATES

NO.	DATE	DESCRIPTION

SIGNAL PLANS BANKS RD AT ELLIS RD SUMMARY OF QUANTITIES

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	27-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	





ELECTRIC POWER SERVICE DETAIL
NTS

NOTES:

1. MOUNTING OF POWER METERS OR DISCONNECTS ON SIGNAL CONTROLLER CABINETS IS NOT PERMITTED.
2. PAYMENT FOR EQUIPMENT SHOWN ABOVE REQUIRED FOR POWER SERVICE CONNECTION SHALL BE INCLUDED IN PAY ITEM 939-5010 ELECTRICAL POWER SERVICE ASSEMBLY (AERIAL SERVICE POINT).



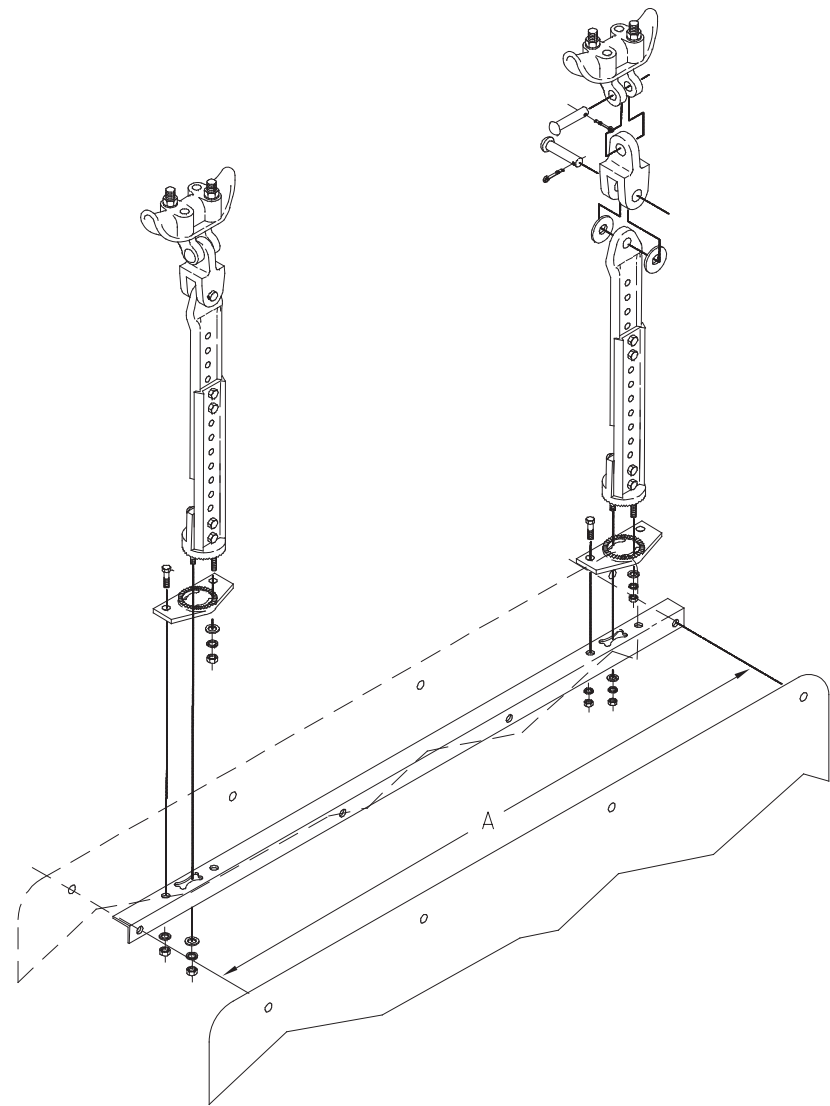
REVISION DATES

NO.	DATE	DESCRIPTION

SIGNAL PLANS
BANKS RD AT ELLIS RD
POWER PEDESTAL POLE DETAIL

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	27-0005
CORRECTED:	DATE:	
VERIFIED:	DATE:	

SPAN WIRE SIGN BRACKET



MOUNTING DIMENSIONS			
H	A	B	C
12"	9"	1 1/2"	36"
18"	15"	1 1/2"	24"
24"	18"	1 1/2"	18"
30"	24"	3"	12"

GENERAL NOTES FOR OVERHEAD STREET NAME SIGNS

- 1) ALL LETTERS SHALL BE 8" U.C. & L.C. SERIES "D". ALL ARROWS SHALL BE 6" TALL & 9" LONG.
- 2) BORDER SHALL BE 1/2". RADIUS SHALL BE 1/2".
- 3) SIGN PANELS SHALL BE FABRICATED OF ONE CONTINUOUS UNSPLICED PIECE OF ALUMINUM.
- 4) ALL SIGNS SHALL BE WHITE TYPE 9 REFLECTORIZED LEGEND AND BORDER ON STANDARD INTERSTATE GREEN TYPE 9 REFLECTORIZED BACKGROUND.
- 5) FOR MOUNTING ON SIGNAL SPAN WIRE:
USE (1) ONE PELCO SP-5262-L (L=LENGTH OF SIGN MINUS 6 INCHES) OR EQUIVALENT, SIGN HANGER PER SIGN OR PER PAIR OF BACK-TO-BACK MOUNTED SIGNS. HANGER SHALL CONSIST OF A CONTINUOUS ANGLE BRACKET, RUNNING THE LENGTH OF THE SIGN, WITH TWO (2) ADJUSTABLE SPAN WIRE ATTACHMENTS. HANGER SHALL BE CONSTRUCTED OF ALUMINUM WITH STAINLESS STEEL FASTENERS. AFTER ATTACHING TO SPAN WIRE, HANGER AND SIGN SHALL BE CHECKED WITH A SPIRIT LEVEL AND ADJUSTED SO THAT SIGN IS LEVEL. ATTACH BACK-TO-BACK SIGNS TO OPPOSITE SIDES OF SIGN BRACKET SO THAT NO AREA OF SIGN SURFACE IS COVERED. RIVET SIGN BLADES TOGETHER ALONG BOTTOM EDGE.
- 6) ENSURE SIGNS ARE MOUNTED TO AVOID BLOCKING VIEW OF SIGNAL HEADS FROM APPROACHING TRAFFIC.