#### ROAD IMPACT FEE OFFSET AGREEMENT COF CONTRACT No. 2018-0228

This agreement is entered into between THE CITY OF FRANKLIN,	TENNESSEE
("City") and Embrey Partners Ltd., ("Developer"), on this the	day of
, 2018, pursuant to Title 16, Chapter 4 of the Franklin Municipal Code ("	FMC").

WHEREAS, the Developer has previously submitted to the Franklin Municipal Planning Commission a Development Plan for Carothers Crossing West PUD Subdivision (the "Development Project"); and

WHEREAS, the City has required the Developer to design and construct certain roadway improvements to include the dedication of arterial right-of-way, the engineering design of non-site related arterial improvements and/or the construction of certain non-site related arterial improvements as a requirement of the Development Project; and

WHEREAS, the estimated Arterial Impact Fees to be generated by the development is ONE MILLION THIRTY-SIX THOUSAND TWO HUNDRED NINETY-SIX AND 00/100 DOLLARS (\$1,036,296.00) (333 multi-family units at \$3,112/single-family home) and;

WHEREAS, the Developer has made application to offset a portion of the costs of construction of these improvements against any Road Impact Fees due from the Development Project, and the estimated amount of such eligible costs, and potential offset, was determined by the Road Impact Fee Administrator (City Engineer) on September 26, 2018, to be Two Hundred Forty-Nine Thousand Three Hundred Fifty-Eight and 30/100 Dollars (\$249,358.30), as shown on Exhibit A.

**NOW THEREFORE**, the City and the Developer, their successors and assigns, do hereby agree as follows:

- 1. The foregoing recitals are incorporated into this Agreement and made a part thereof.
- 2. Developer has submitted reliable information, as shown in Exhibit A, related to the costs of construction of the following arterial roadway improvements and/or works:

#### **Liberty Pike**

The total estimated costs of engineering/design, right-of-way and construction of the Improvements is Two Hundred Forty-Nine Thousand Three Hundred Fifty-Eight and 30/100 Dollars (\$249,358.30) for the Development Project and the total reimbursement to the Developer is the same amount. The following costs are specifically excluded: fiscal cost, including interest of money borrowed to finance the construction, cost for utility relocations, turn lanes, internal management fees and signals improvements that benefit solely the development and not the arterial roadway. At no time shall reimbursement exceed the Arterial Impact Fees collected as part of the Development Project.

3. The Developer shall be responsible for obtaining all offsite right-of-way and easements associated with the offsite arterial improvements. Should negotiations fail, the City agrees to acquire the right-of-way and easements necessary for the Arterial Roadway Improvements as shown in Exhibit A.

- 4. The City Engineer shall review and approve all design contracts, ROW acquisition offers, and construction bids prior to the spending of any funding in which the Developer is seeking reimbursement from the City. The Developer agrees that failure to obtain contract approval from the City Engineer may result in loss of City funding / reimbursement.
- 5. The Developer may submit periodic invoices to the City during the course of construction (not more frequently than every ninety (90) days), which invoices shall be payable within thirty (30) days after approval by the Road Impact Fee Administrator (City Engineer), subject to collected impact fees and paragraph 3 above. Invoices shall include copies of approved contracts and invoices associated with the arterial roadway improvements and copies of checks to show proof of payment.
- 6. Within 60 days of completion and acceptance of the improvements, the Developer and the City shall settle on a final billing. The Developer will provide reasonable documentation for all such cost and provide notarized release of liens.
- 7. The City and Developer agree that the terms and conditions contained herein shall be binding on and shall inure to their heirs, representatives, successors, and assigns and that there are no understandings or agreements between them except as contained in this instrument.
- 8. The City shall have no liability except as specifically provided in this Agreement.
- 9. Applicable Law/Choice of Forum and Venue. This Agreement is made under and will be construed in accordance with the laws of the State of Tennessee without giving effect to that state's choice of law rules. The parties' choice for forum and venue shall be exclusively in the courts of Williamson County, Tennessee.
- 10. Entire Agreement. This Agreement together with its exhibit(s) constitutes the entire agreement between the parties and may not be modified except as by a written agreement by both parties.

Approved by the Franklin Board of Mayor and Aldermen on	, 201
(Signatures on pages 3 and 4)	

#### WITNESS our hands on the dates as indicated.

## 

Notary Public

My Commission Expires:

#### **CITY**

		OF FRANKLIN, TENNI	ESSEE,
	DF Ma	R. KEN MOORE ayor	
	Date:_		
	ER	AIC S. STUCKEY ty Administrator	
	Date:_		
STATE OF TENNESSEE	)		
COUNTY OF WILLIAMSON	)		
Before me, the undersigned Notary DR. KEN MOORE and ERIC S. STUGOROVE to me on the basis of satisfactor themselves to be the Mayor and City A Tennessee, the within named bargainor, Administrator executed the foregoing instruction has been as the municipality by themselves the same of the municipality by themselves.	CKEY, with whory evidence), and dministrator, resea municipality, rument for the pu	som I am personally acquain nd who, upon oath, acknow spectively, of the City of F and that as such Mayor a rposes therein contained, by	nted (or wledged ranklin, nd City
Witness my hand and seal this	day of		·
	•	Public Pummission Expires:	
Approved as to form by:			
Γiffani M. Pope, Staff Attorney			



October 19, 2018

Mr. Paul Holzen
Director of Engineering
City of Franklin, Tennessee
109 3<sup>rd</sup> Avenue South
Franklin, Tennessee 37064

RE: Road Impact Fee Offset Agreement Request

**Carothers Crossing West** 

Northwest Corner of Carothers Parkway and Liberty Pike

Dear Paul,

Please consider this formal request for a road impact fee offset for the Carothers Crossing West Mixed Use Development located at the northwest corner of Carothers Parkway and Liberty Pike. This fee offset is estimated below and includes the costs associated with the extension of the eastbound left turn lane on Liberty Pike. The left turn lane extension has already been approved with another Development Plan, therefore the design fees are not included as part of this request. In addition, costs associated with the right-of-way dedication for Carothers Parkway (arterial roadway) right-of-way have been included with the estimate below.

The proposed development, Carothers Crossing West, consists of a mixed-use development. Phase one includes four multi-family buildings of 333 units by Embrey Partners Ltd. (Embrey). Through an agreement between Embrey and Southstar, the co-developer of Carothers Crossing West, Embrey will be responsible for constructing the offsite improvements outlined in this request. Therefore, the roadway impact fee offset request is for Embrey and the full design will be shown on Embrey's Site Plan, assuming the Development Plan is approved. Preliminary estimates of the anticipated Arterial Roadway Impact fees for this development have been estimated using the City of Franklin Road Impact Fees Outline totaling \$1,036,296.00. The fees required by the City of Franklin for the Road Impact fee have not yet been paid to the City of Franklin, but will be paid prior to plat recordation. We propose that the required roadway impact fees be reimbursed by the amount provided below after payment of roadway impact fees and documentation of work completed and ROW dedicated.

Left Turn Lane Extension on Liberty Pike \$149,358.30 R.O.W. Dedication Fee (0.113 Acres) \$100,000.00 \$249,358.30

#### TOTAL IMPACT FEE OFFSET ESTIMATE - \$249,358.30

The ROW dedication fee outlined above was based upon the recent appraisal performed by Boozer and Company, P.C. The appraisal and location of ROW dedication are attached to this letter for review. The cost for the Left Turn Lane Extension along Liberty Pike is based on cost estimates provided by the City of Franklin which are attached to this letter.



Mr. Holzen, October 19, 2018, Page 2 of 2

The total anticipated cost of these improvements does not exceed the Arterial Roadway Impact Fee estimate. As a result, we are requesting the roadway impact fees be reimbursed by the above costs associated with the left turn lane extension and ROW dedication, shown as \$249,358.30.

Please contact me at (615) 800-4004 or <a href="mary.mcgowan@kimley-horn.com">mary.mcgowan@kimley-horn.com</a> should you have any questions.

Sincerely,

Mary McGowan, P.E.

Attachments: Boozer and Company Appraisal

ROW and Access Plan from Development Plan Submittal City of Franklin Cost Estimate for Left Turn Lane Extension

CONTRACTOR		TDOT LINE ITEM INFORMATION	UNIT PRICING COMPARISON					UNIT PRICING COMPARISON				5VT 44401111	
ITEM NO.	ITEM NO.	TDOT DESCRIPTION	UNIT	TD	OT (2017)	TD	TDOT + 15%   COF (2018)			(ENGINEER)	QUANTITY	EX	T. AMOUNT
10	105-01	Construction Stakes, Lines and Grades	LS		N/A		N/A		N/A	\$ 15,000.00	1	\$	15,000.00
30	202-03.01	Removal of Asphalt Pavement	SY	\$	12.00	\$	13.80	\$	27.00	\$ 30.00	321	\$	9,630.00
40	202-03	Removal of Ridge Pavement, Sidewalk, Etc.	SY	\$	12.00	\$	13.80	\$	36.00	\$ 30.00	267	\$	8,010.00
50	203-01	Road & Drainage Excavation (Unclassified)	CY	\$	9.00	\$	10.35	\$	3.50	\$ 25.00	317	\$	7,925.00
60	203-05	Undercutting	CY	\$	29.00	\$	33.35	\$	55.00	\$ 50.00	135	\$	6,750.00
70	203-04	Placing and Spreading Topsoil	CY	\$	7.00	\$	8.05		N/A	\$ 25.00	25	\$	625.00
80	209-08.03	Temporary Silt Fence (Without Backing)	LF	\$	2.00	\$	2.30		N/A	\$ 3.00	300	\$	900.00
100	209-09.35/37	Silt Saver/Sack Inlet Protection	EACH		N/A		N/A		N/A	\$ 385.00	1	\$	385.00
110	303-01	Mineral Aggregate, Type A Base, Grading D	TON	\$	22.00	\$	25.30	\$	10.00	\$ 25.00	276	\$	6,900.00
120	307-02.01	AC Mix (PG70-22) (BPMB-HM) Grading A	TON	\$	69.00	\$	79.35	\$	60.00	\$ 120.00	80	\$	9,600.00
130	307-01.21	AC Mix (PG70-22) (BPMB-HM) Grading A-S	TON	\$	64.00	\$	73.60		N/A	\$ 120.00	80	\$	9,600.00
140	307-02.08	AC Mix (PG70-22) (BPMB-HM) Grading B-M2	TON	\$	75.00	\$	86.25	\$	82.00	\$ 140.00	42	\$	5,880.00
150	402-01	Bituminous Material for Prime Coat (PC)	TON	\$	683.00	\$	785.45	\$	200.00	\$ 1,000.00	1	\$	1,000.00
160	402-02	Aggregate for Cover Material (PC)	TON	\$	45.00	\$	51.75	\$	15.00	\$ 50.00	18	\$	900.00
170	403-01	Bituminous Material for Tack Coat (TC)	TON	\$	606.00	\$	696.90	\$	1,100.00	\$ 1,000.00	2	\$	2,000.00
180	411-02.10	ACS Mix (PG70-22) Grading D	TON	\$	85.00	\$	97.75	\$	102.00	\$ 100.00	130	\$	13,000.00
190	415-01.02	Cold Planing Bituminous Pavement	SY	\$	2.00	\$	2.30		N/A	\$ 3.00	1182	\$	3,546.00
280	611-09.01	Adjustment of Existing Catchbasin	EACH		N/A		N/A		N/A	\$ 2,500.00	1	\$	2,500.00
290	611-09.02	Rework Catchbasin	EACH		N/A		N/A		N/A	\$ 1,500.00	1	\$	1,500.00
350	702-03	Concrete Combined Curb & Gutter	CY	\$	323.00	\$	371.45	\$	2.85	\$ 400.00	26	\$	10,400.00
360	710-02	Aggregate Underdrains (With Pipe)	LF	\$	6.00	\$	6.90		N/A	\$ 25.00	300	\$	7,500.00
370	712-01	Traffic Control	LS		N/A		N/A		N/A	\$ 10,000.00	1	\$	10,000.00
380	712-04.01	Flexible Drums (Channelizing)	EACH	\$	27.00	\$	31.05		N/A	\$ 35.00	12	\$	420.00
390	712-06	Signs (Construction)	S.F.	\$	8.00	\$	9.20		N/A	\$ 10.00	90	\$	900.00
420	716-12.01	Enhanced Flatline Thermo Pvmt Mrkng (4IN Line)	LM	\$	3,326.00	\$	3,824.90	\$	4,200.00	\$ 5,000.00	0.3	\$	1,500.00
430	716-02.04	Plastic Pavement Marking (Channelization Striping)	SY	\$	18.00	\$	20.70		N/A	\$ 50.00	50	\$	2,500.00
450	716-02.06	Plastic Pavement Marking (Turn Lane Arrow)	EACH	\$	150.00	\$	172.50		N/A	\$ 375.00	2	\$	750.00
460	716-04.13	Plastic Pavement Marking (Bike Lane Symbol & Arrow)	EACH	\$	381.00	\$	438.15		N/A	\$ 375.00	2	\$	750.00
480	716-05.01	Painted Pavement Marking (4" Line)	LM	\$	805.00	\$	925.75	\$	2,200.00	\$ 2,500.00	0.1	\$	250.00
510	801-03	Water (Seeding & Sodding)	MG	\$	23.00	\$	26.45		N/A	\$ 25.00	5	\$	125.00
520	803-01	Sodding (New Sod)	SY	\$	4.00	\$	4.60		N/A	\$ 15.00	100	\$	1,500.00
490	717-01	Mobilization	LS		N/A		N/A		N/A	N/A	1		\$7,112.30
											TOTAL:	\$	149,358.30

## CITY OF FRANKLIN

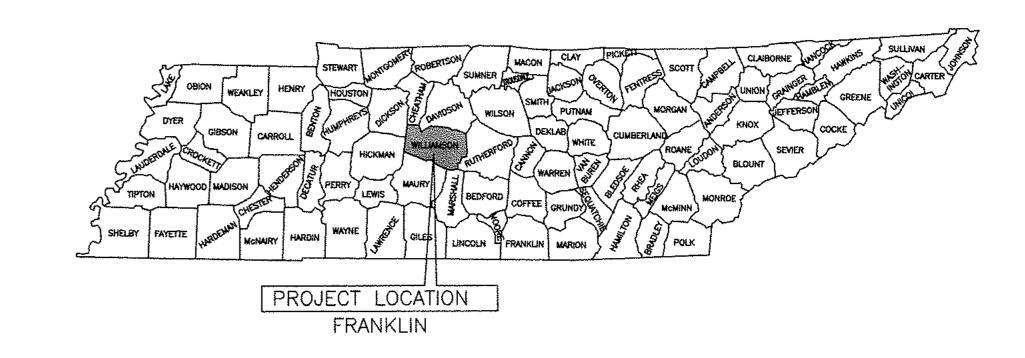
## DEPARTMENT OF ENGINEERING

LIBERTY PIKE WIDENING

CAROTHERS PKWY TO EAST OF KNOLL TOP LANE

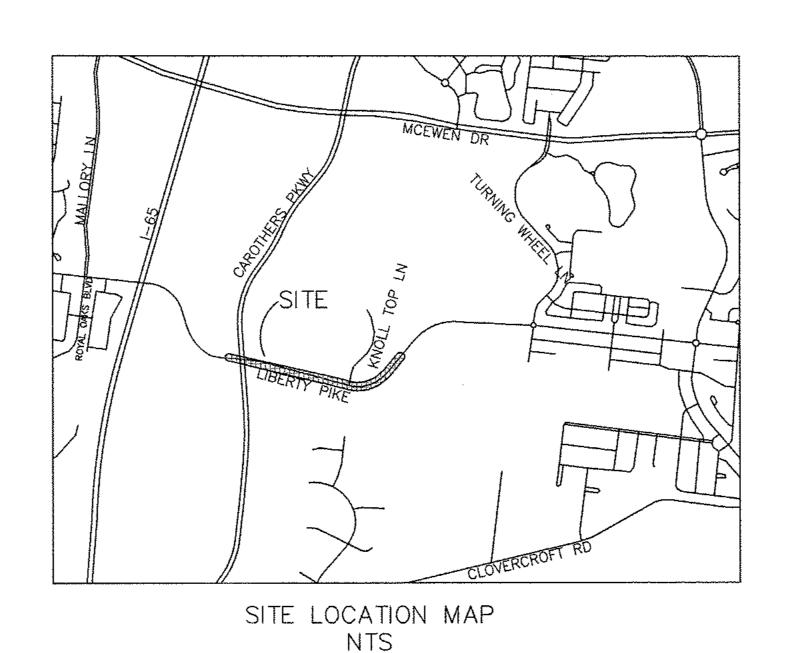
APPROXIMATE LENGTH 0.38 MILES

COF Project No. 6787



## INDEX OF DRAWINGS

SHEET NAME:	SHEET NO.
COVER SHEET	1
TYPICAL SECTIONS AND DRAINAGE TABLES	2-2A
GENERAL NOTES	2B
DETAILS	2C-2D
RIGHT OF WAY PLAN	3
EXISTING LAYOUT	4
PLAN AND PROFILE	5-6
LIBERTY PIKE WEST APPROACH	7
UTILITY PLAN	8
PAVEMENT MARKINGS AND SIGNS	9
TRAFFIC CONTROL PLAN	10
INITIAL ESPC PLAN	**************************************
FINAL ESPC PLAN	12
LIBERTY PIKE CROSS SECTIONS	XS1-XS4



#### **ENGINEERING APPROVAL**

FRANKLIN ENGINEERING DEPARTMENT CITY HALL
109 3RD AVE S #142
FRANKLIN, TN 37064
PHONE: (615) 791-3218

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SEC, Inc.

SITE ENGINEERING CONSULTANTS ENGINEERING · SURVEYING · LAND PLANNING

850 MIDDLE TENNESSEE BOULEVARD MURFREESBORO, TENNESSEE 37129
PH (615) 890-7901 DJENKINS@SEC-CIVIL.COM FAX (615) 895-2567

Douglas W. Jenkins, P.E.

**9-7-18**Date



KEN MOORE, MAYOR

ALDERMEN
BEVERLY BURGER ANN PETERSEN
DANA MCLENDON CLYDE BARNHILL
MICHAEL SKINNER BRANDY BLANTON
MARGARET MARTIN PEARL BRANSFORD

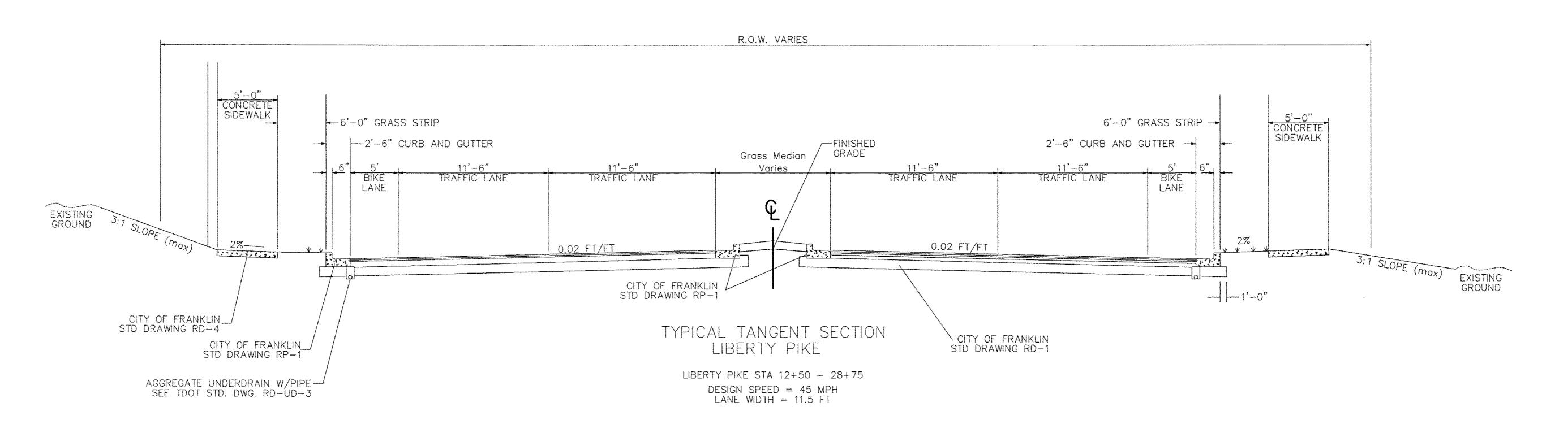
ERIC STUCKEY, CITY ADMINISTRATOR

Plans are based on a survey prepared by Barge Waggoner Sumner and Cannon, Inc. dated for General Issue Nov. 4, 2016. Survey North was based on the Tennessee Coordinate System of 1983(NAD—1983), Elevations are based on NAVD—1988, using GEOID 2003 for orthometric height determination.

Contours on Parcel 40.19 were updated using a survey provided by the City of Franklin. The survey was prepare by Barge Design Solutions, titled "Lot 1 The Standard at Cool Springs" and last revised on 8—14—18. Existing Easements were obtained from a Final Plat for the Waterford Subdivision, recorded in P.B. 55 Pg. 28

LIBERTY PIKE SEC# 14432 MARCH 2017

SITE ENGINEERING CONSULTANTS
ENGINEERING SURVEYING LAND PLANNING
LANDSCAPE ARCHITECTURE



## **ESTIMATED QUANTITIES**

			WEST SIDE	EAST SIDE
ITEM NO	DESCRIPTION	UNIT	QUANTITY	QUANTITY
105-01	STAKES, LINES AND GRADES	LS.	0.1	0.80
201-01 202-03.01	CLEARING AND GRUBBING REMOVAL OF ASPHALT PAVING	LS SY	0	2265
202-08.15	REMOVAL OF ASPITALI FAVING REMOVAL OF SIDEWALK & CURB AND GUTTER	SY	57	1130
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	CY	310	5300
203-01	UNDERCUTTING	CY	0	400
203-04	PLACING AND SPREADING TOPSOIL	ČÝ	5	462
209-08.03		l F	0	2074
209-00.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	<u> </u>	1	20/4
209-08.09	FILTER SOCK CHECK DAM	EA	0	
209-09.01	DROP INLET FILTER	EA	1	20
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	260	4986
307-02.01	ASPHALT CONCRETE MIX (PG70-22) GRADING A	TON	<u>55</u>	1377
307-02.02 307-02.08	ASPHALT CONCRETE MIX (PG70-22) GRADING AS ASPHALT CONCRETE MIX (PG70-22) GRADING B-M2	TÖN TON	55 30	1377 750
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	2	10
402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	7	34
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	,4	2.3
411-02.10	ACS MIX (PG70-22) GRADING D	TON	125	1188
415-01.01	ASPHALT MILLING	CY	400	2533
604-01.01	CLASS A CONCRETE	CY	Ŏ	-0
604-01.02	STEEL BAR REINFORCEMENT	LB	0	-8
607-02.02 607-03.02	15" CONCRETE PIPE CULVERT (CLASS III) 18" CONCRETE PIPE CULVERT (CLASS III)	F	0	681 424
607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	l F	1 ŏ	243
607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	l if	0	<del></del>
611-01.02	48" MANHOLE, 6' - 10' DEPTH	EACH	Ŏ	5 3
	CONNECT TO EXISTING BOX CULVERT	EACH	0	2
	EXISTING BASIN RELOCATED	EACH	11	4
611 0770	EXISTING BASIN CASTING REMOVED AND REPLACED	EACH	0	3
611-07.30 611-12.01	ENDWALL 15" RCP   #12 SINGLE INLET, 0' - 6' DEPTH	EACH EACH	1-0	9
611-12.02	#14 DOUBLE INLET. 4' - 10' DEPTH	EACH	1 0	5
701-01.01	CONCRETE SIDEWALK (4")	SF	Ŏ	14982
701-02.01	CONCRETE HANDICAP RAMP	SF	0	420
702-03	CONCRETE COMBINED CURB AND GUTTER	LF	263	5637
710-02	AGGREGATE UNDERDRAIN WITH PIPE	<u>LF</u>	260	3140
712-01	TRAFFIC CONTROL	LS EACH	0.1	0.90
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	LACH	0	40
712-06 712-07.03	SIGNS (CONSTRUCTION) TYPE III BARRICADE	SF I F	0	112.5
713-16.20	SIGNS (R1-1, R4-7, W4-2R, R6-1R)	<u>EA</u>	0	9
716-02.01 716-02.04	PLASTIC PAVEMENT MARKINGS (4" LINE) PLASTIC PAVEMENT MARKINGS (CHANNELIZATION STRIPING)	LF SY	980 0	8820 458
716-02.04	PLASTIC PAVEMENT MARKINGS (CHANNELIZATION STRIPING) PLASTIC PAVEMENT MARKINGS (24" STOP BAR)	I IF	0	450
716-02.06	PLASTIC PAVEMENT MARKINGS (TURN ARROWS)	T ĒA	1 2	
716-03.01	PLASTIC PAVEMENT MARKINGS (BIKE LANE SYMBOL)	EA	Ō	9 5
716-03.02	PLASTIC PAVEMENT MARKINGS (CROSS WALKS)	SF	0	1350
716-05.01	PAINTED PAVEMENT MARKINGS (4" LINE TEMPORARY)	LF	250	6250
·····				
717-01	MOBILIZATION	LS	0.10	0.90
801-01	SEEDING (WITH MULCH)	SY	140	8760
801-03	WATER (SEEDING)	MG	1	
803-01	SODDING (NEW SÓD)	SY	0	0
E-1	RELOCATED LIGHT POLE AND BASE	EA	2	13
Ē-2	12" SCHEDULE 40 PVC (LIGHTS)	LF	120	1326
E-2 E-3	STREET LIGHT JUNCTION BOX	ĒA	0	10
E-4	13" PVC (W/ 3 INNERDUCTS FOR FIBER OPTIC)	LF	0	1250
<u>E-5</u>	TYPE "A" PULL BOX	EA	<u> </u>	7
E-6	60F FIBER OPTIC LINE	LF	0	1250
<del></del>				
		<u> </u>	<u> </u>	<u></u>

NOTE: PRIOR TO THE INSTALLATION OF THE NEW PAVEMENT SECTION, THE CONTRACTOR SHALL SAWCUT THE EXISTING PAVEMENT AT A LOCATION SUFFICIENT TO INSURE THAT THE INTEGRITY OF THE EXISTING PAVEMENT SECTION IS MAINTAINED. WHERE SOUND PAVEMENT HAS BEEN GOUGED, TORN OR OTHERWISE DAMAGED DURING THE MILLING OPERATIONS OR DAMAGE IS DONE TO ANY OTHER PROPERTY OF ANY KIND INCLUDING UTILITY FRAMES, GRATES, COVERS AND DETECTOR LOOPS, THE CONTRACTOR IS TO MAKE REPAIRS AT NO COST TO THE CITY OF FRANKLIN.

NING PIKE

LIBERTY

DRAWN: MLG CHECKED: FILE NAME: 4432project 1"=50' JOB NO. 14432 SHEET:

PAVEMENT SCHEDULE 1.5" — BITUMINOUS SURFACE COURSE 411-02.10 ACS MIX(PG70-22) GRADING D TACK COA!

403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) @0.07 GAL/SY

(@0.10 GAL/SY MILLED SURFACES) 2" ASPHALT BINDER (226 LB/SQ, YD.) 307-02.08 ASPHALT CONCRETE MIX (PG70-22)(BPMB-HM) GRADING B-M2 4" ASPHALTIC AGGREGATE BASE BINDER (460 LBS/SQ. YD.) 307-02.01 ASPHALT CONCRETE MIX (PG70-22)(BPMB-HM) GRADING A 4" - ASPHALT AGGREGATE BASE (360 LBS./SQ. YD) 307-02.02 ASPHALT CEMENT (PG70-22) BPMB-HM GRADING "A-S" 307-02.03 AGGREGATE (BPMB-HM) GRADING "A-S" 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) \$0.30-0.35 GAL/SY 402-02 AGGREGATE FOR COVER MATERIAL (PC) 68-12LBS/SY 12" MINERAL AGGREGATE BASE 303-01 MINERAL 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING"O"

AGGREGATE UNDER DRAINS (W/PIPE)

GEOTECHNICAL DESIGN.

CITY OF FRANKLIN

MAJOR AND MINOR ARTERIAL PAVEMENT SECTION

DWG. NO. RD-1

(COORDINATE WITH STANDARD TOOT STD. DRAWING RD-UD-3)

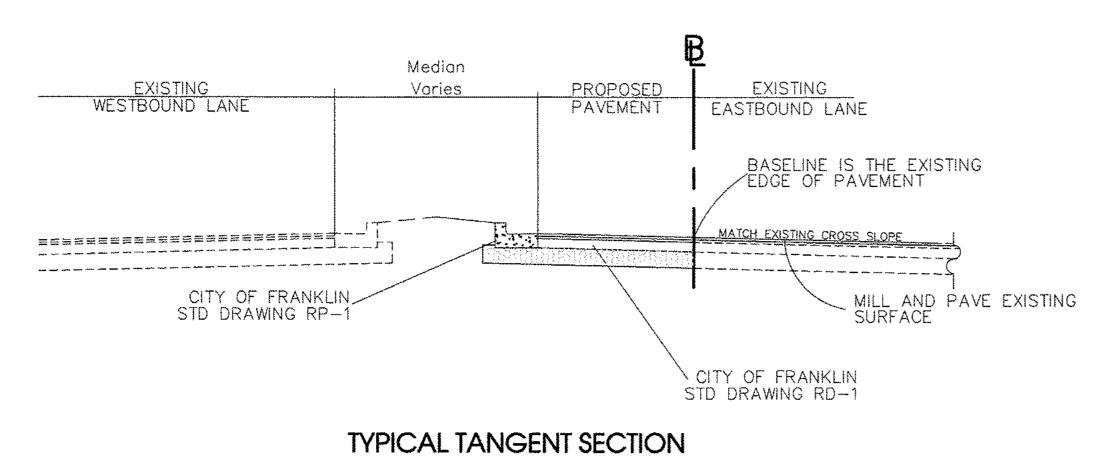
MAXIMUM SIDESLOPE WHETHER IN CUT OR FILL IS TO BE 3:1.

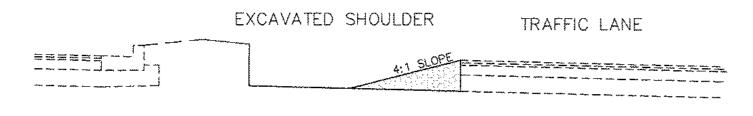
3. REFERENCE TOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE

EFFECTIVE DATE: 8/1/2018

N.T.S

ASPHALT THICKNESSES ARE MINIMUMS. THICKNESSES TO BE DETERMINED BY





## PAVEMENT EDGE DROP OFF

LIBERTY PIKE

Note: The Contractor shall eliminate the vertical difference in elevation by constructing a stone wedge or grading to a 4:1 slope or flatter.

STORM SEWER PIPES											
SHEET	F	ROM	BBBLL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TI	% CDADE	STO	ORM SEWER PIPES (RCP)				
ND	CODE	OUTLET ELEV.	CODE	INLET ELEV.	GRADE	15″	18"	24"	30″	36″	
5	2	775, 45	1	775. 91	0, 50		90				
5	1	775, 91	2B	783, 00	1, 23		236			· · · · · · · · · · · · · · · · · · ·	
5	2C	774. 06	2	775, 45	1, 50		93				
5	10	785, 58	6	786, 30	0, 50	144					
5	8A	785, 70	8	786, 10	1, 38	29					
5	8B	781, 25	88	785, 70	5, 11	87					
5	9	785, 21	10	785. 58	0. 50	74					
5	7	779, 94	11	785. 43	6. 17			89			
6	11	785, 53	13	786, 35	2, 10	39					
6	14	790, 10	16	790, 55	2, 25	20					
6	14	790, 10	18	799, 40	4, 95	188					
5	17	779, 75	9	781. 94	3. 13	70					
5	EX1	780, 00	4	779. 95	1.00				5		
6	11	785, 53	12	786, 57	3, 47	30					
6	EX3	790, 96	15	791.00	1,00		5			<del></del>	<u> </u>
6	11	785, 53	14	789, 90	2.84			154			
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NOTE: ALL PIPE TRENCHES ARE TO BE BACKFILLED WITH CRUSHED STONE TO ROADWAY SUBGRADE. COST OF BACKFILL TO BE INCLUDED IN COST OF PIPE.

NOTE: PRIOR TO THE INSTALLATION OF THE NEW PAVEMENT SECTION, THE CONTRACTOR SHALL SAWCUT THE EXISTING PAVEMENT AT A LOCATION SUFFICIENT TO INSURE THAT THE INTEGRITY OF THE EXISTING PAVEMENT SECTION IS MAINTAINED. WHERE SOUND PAVEMENT HAS BEEN GOUGED, TORN OR OTHERWISE DAMAGED DURING THE MILLING OPERATIONS OR DAMAGE IS DONE TO ANY OTHER PROPERTY OF ANY KIND INCLUDING UTILITY FRAMES, GRATES, COVERS AND DETECTOR LOOPS, THE CONTRACTOR IS TO MAKE

REPAIRS AT NO COST TO THE CITY OF FRANKLIN.

	CATCH BASINS AND MANHOLES										
SHEET NO	LOCATION	STATION	OFFSET (FT)	DRAINAGE CODE	GRATE/TOP ELEV.	INVERT ELEV.	STRUCTURE TYPE (Note)	DEPTH (FT)			
5	LIBERTY PIKE	14+75	53.57 LT	1	780.19	775.91	#14 Basin (1)	4.28			
5	LIBERTY PIKE	14+92	40.00 RT	2	781.19	775.45	#12 BASIN (1)	5.24			
5	LIBERTY PIKE	12+72	1.0 RT	2A	775.96	771.34	#3 MH (2)	4.62			
5	LIBERTY PIKE	17+22	40 LT	2B	787.00	783.10	#14 BASIN (1)	4,10			
5	LIBERTY PIKE	13+93	40 RT	2C	778.16	774.06	#12 BASIN (1)	4.06			
5	LIBERTY PIKE	18+57	8.48 LT	3	789.75	780.15	#3  MH  (2,3)	9.60			
5	LIBERTY PIKE	18+57	42.00 RT	4	788.64	779.95	#14 Basin (1)	8.69			
5	LIBERTY PIKE	18+59	42.00 LT	5	788.64	780.57	#14 Basin (1)	8.07			
5	LIBERTY PIKE	22+33	42.00 RT	6	790.32	786.30	#12 Basin (1)	4.02			
6	LIBERTY PIKE	24+73	6.20 RT	7	NA	779.94	(4)	NA			
5	KNOLL TOP DR	0+70	16.50 LT	8	790.10	786.10	#12 Basin (1)	4.00			
5	KNOLL TOP DR	0+70	16.50 RT	8A	789.90	785.70	#12 Basin (1)	4.20			
5	KNOLL TOP DR	0+97	103 RT	8B	NANA	781.25	HEADWALL	NA			
5	LIBERTY PIKE	23+83	42.00 RT	9	789.52	785.21/781.9		7.58			
5	LIBERTY PIKE	23+82	42.00 LT	10	789.52	785.58	#14 Basin (1)	3.94			
6	LIBERTY PIKE	25+52	5.81 RT	11	791.76	785.43	#3 MH (2)	6.33			
6	LIBERTY PIKE	25+52	42.00 RT	12	790.37	786.57	#12 BASIN (1)	3.80			
6	LIBERTY PIKE	25+52	42.00 LT	13	790.37	786.35	#12 Basin (1)	4.02			
6	LIBERTY PIKE	27+13	2.45 LT	14	795.53	789.91	#3 MH (2)	5.63			
6	LIBERTY PIKE	27+15	33.92 RT	15	796.74	791.00	(5)	5.74			
6	LIBERTY PIKE	27+14	34.53 LT	16	794.57	790.55	#12 Basin (1)	4.02			
6	LIBERTY PIKE	24+74	38.68 RT	17	NA	779.85	(4)	NA			
6	LIBERTY PIKE	29+13	21.47 LT	18	804.07	799.40	#12 Basin (1)	4.35			
7	LIBERTY PIKE	6+59	3.15 LT	19	770.82	766.40	(5)	4.42			

- 1. See TDOT Dwg. No. D-CB-14 & D-CB-12LP for Details. Casting shall be a NENA R-3067 Type "L" Grate with Environotice Plates R-3000-C Surface
- 2. See TDOT Dwg. No. D-MH-2 for Details.
- Remove casting and replace with manhole cover. Provide a top slab if required. See TDOT DWG. No. D-MH-2 for casting details.
   Connect to existing Box Culvert. Plug existing connection with
- non-shrinking grout.

  5. Existing Basin relocated to proposed curb location.

NING 6787 PIKE

LIBERTY COF Pr

DRAWN: MLG DATE: 3-10-17 CHECKED: FILE NAME: 14432project 1"=50'

JOB NO. 14432

2A

TILE NAME:

SCALE:

JOB NO.

SHEET:

14432project

1"=50'

14432

2B

- (1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF CITY OR STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THE AREAS ON WHICH THE TOPSOIL MATERIAL SHALL BE STOCKPILED. THE COST OF THIS SHALL NOT BE PAID DIRECTLY BUT SHALL BE INCLUDED UNDER THE COST OF OTHER ITEMS.
- ANY GRADED OR DISTURBED AREAS SHALL HAVE 2 INCHES OF TOPSOIL, SEED, MULCH, FERTILIZER AND WATER APPLIED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. THE RESTORATION SHALL CLOSELY FOLLOW CONSTRUCTION.
- WHERE CONSTRUCTION LIMITS INCLUDE EXISTING TREES, ONLY THE TREES OBSTRUCTING CONSTRUCTION SHALL BE REMOVED. ALL OTHER TREES SHALL BE PROTECTED FROM DAMAGE.

#### Drainage Notes:

**Grading Notes:** 

- THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
- THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).
- WHERE A CULVERT (PIPE, SLAB OR BOX) IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION, NO INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT WILL BE MADE DUE TO SUCH CHANGE.
- DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.
- EXISTING STRUCTURES TO BE RELOCATED (HEADWALLS, CULVERTS, ETC.) MAY BE REINSTALLED ONLY IF UNDAMAGED AND APPROVED BY THE CITY'S PUBLIC WORKS INSPECTOR PRIOR TO BACKFILL OF TRENCH.
- EXCAVATION FOR PIPE CULVERTS SHALL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT SHALL BE INCLUDED UNDER THE COST OF OTHER ITEMS.
- ALL PIPE TRENCHES ARE TO BE BACKFILLED WITH STONE TO SUBGRADE.

#### **Utilities Notes:**

- THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.
- THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE. OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.
- THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.
- ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, AND ANY OTHER MISCELLANEOUS), SHALL BE IN-PLACE PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL.
- ALL EXCAVATION FOR UNDERGROUND UTILITIES SHALL CONSIST OF 100% STONE BACKFILL. COST TO BE INCLUDED IN THE COST FOR PIPE.
- (7) THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH HIS WORK.

#### Miscellaneous:

- ALL DETOUR, ACCESS, SERVICE AND FRONTAGE ROADS SHALL BE CONSTRUCTED WITH A MINIMUM OF ONE (1) COURSE OF BASE MATERIAL BEFORE TRAFFIC IS INTERRUPTED ON EXISTING ROADS.
- THE CONTRACTOR SHALL COORDINATE ADJUSTMENT OF MANHOLE CASTINGS WITH
- NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION
- CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOUND BETWEEN THESE PLANS AND FIELD CONDITIONS PRIOR TO OR DURING CONSTRUCTION.
- APPARENT ERRORS, DISCREPANCIES, OR OMISSIONS ON THE DRAWING SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID SUBMITTAL. THE CONTRACTOR MAY NOT USE APPARENT ERRORS, DISCREPANCIES, OR OMISSIONS PRESENT ON THE DRAWINGS PRESENTED FOR BIDDING FOR ADDITIONAL CHARGES AFTER BIDS HAVE BEEN SUBMITTED. THE ENGINEER SHALL BE PERMITTED TO MAKE CORRECTIONS AND INTERPRETATIONS AS MAY BE DEEMED NECESSARY FOR THE FULFILLMENT OF THE INTENT OF THE CONTRACT DOCUMENTS.
- ANY ITEMS NOT SPECIFICALLY LISTED IN THE BID FORM BUT REQUIRED FOR CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND THE COST SHALL BE INCLUDED IN THE PRICE OF OTHER ITEMS OF WORK.
- ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THIS WORK SHALL BE SECURED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE NOTES AND PLANS SHOWN CALL ATTENTION TO CERTAIN REQUIRED FEATURES OF THE CONSTRUCTION BUT DO NOT CLAIM TO COVER ALL DETAILS OF DESIGN AND CONSTRUCTION. THE CONTRACTOR SHALL FURNISH AND INSTALL THE WORK COMPLETE AND READY FOR OPERATION.
- AFTER COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PERFORM SITE CLEANUP TO REMOVE ALL TRASH, DEBRIS, EXCESS MATERIALS, EQUIPMENT, AND OTHER DELETERIOUS MATERIALS ASSOCIATED WITH CONSTRUCTION. THE CONTRACTOR IS EXPRESSLY RESPONSIBLE FOR ENSURING THE SITE IS CLEAN AND IN OPERABLE CONDITION AT THE TIME OF FINAL ACCEPTANCE.
- NOT USED.
- (11) THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND REPLACEMENT OF ALL PROPERTY PINS ON THIS PROJECT.
- (12) THESE DRAWINGS ARE INTENDED FOR USE ON THIS SITE ONLY AND AS AN INTEGRATED SET FOR THIS SPECIFIC PROJECT. THESE DRAWINGS MAY NOT BE USED IN WHOLE OR IN PART ON ANY OTHER PROJECT UNDER THE PROFESSIONAL ENGINEER'S SEAL, THE OWNER SHALL HOLD HARMLESS AND INDEMNIFY THE OWNER AND ENGINEER FROM AND AGAINST ANY AND ALL CLAIMS OF ANY NATURE WHATSOEVER ARISING FROM SUCH USE.
- (13) CURB TURNOUTS TO EXISTING SHOULDER SHALL BE TAPERED TO FORM A SMOOTH TRANSITION TO EXISTING GRADE.
- (14) INGRESS AND EGRESS TO ALL PROPERTIES MUST BE MAINTAINED WHEN FEASIBLY
- (15) THE CONTRACTOR SHALL PROTECT PRIVATE PROPERTY AND RESTORE ANY DAMAGED PROPERTY TO A CONDITION SIMILAR TO THAT EXISTING PRIOR TO WORK. THE RESTORATION SHALL CLOSELY FOLLOW CONSTRUCTION.

## Road Closure Notes:

NO LESS THAN SEVEN (7) DAYS PRIOR TO THE CLOSURE OF THE ROAD, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES COMPLETELY DESCRIBING THE AFFECTED ROADS AND THE APPROXIMATE DURATION OF THE CONSTRUCTION: THESE PARTIES INCLUDE, BUT ARE NOT LIMITED TO: LOCAL LAW ENFORCEMENT OFFICE, (2) LOCAL FIRE DEPARTMENT, (3) AMBULANCE SERVICE, (4) LOCAL SCHOOL SUPERINTENDENT, (5) UNITED STATES POSTAL SERVICE, AND (6) LOCAL ROAD SUPERINTENDENT.

#### Storm Water Pollution Prevention Notes:

- 1. The site contractor is responsible for establishing and maintaining suitable erosion and sediment control devices on-site during construction as required to prevent silt from leaving site. Silt will not be allowed beyond construction limits.
- 2. The contractor is responsible for removing silt from site if not reusable on-site and assuring plan alignment and grade in all ditches at completion of construction.
- 3. Erosion control measures shall be provided for all cut and fill operations within the limits of the construction site, throughout the construction period to provide the site with maximum protection from erosion at all times.
- 4. Erosion control measures are to be installed prior to any grading on-site and are to be maintained in place until stabilization of erodable soils has been accomplished.
- 5. The Storm Water Pollution Prevention Plan (SWPPP) is an integral part of the Erosion Prevention and Sediment Control (EPSC) Plan and should be followed during all phases of construction (bidding, site work, final stabilization).
- 6. The construction drawings shall be made available on site at all times and presented upon request. If unforeseen storm water pollution prevention is encountered, additional Storm Water Pollution Prevention (SWPP) measures may be requested by the engineer.
- 7. Apply temporary seeding and mulching in all areas that shall be inactive for 15 days or more. All disturbed and eroded earth shall be regraded and seeded within 7 days with seeding, as defined above and as shown on the table below to establish stability and provided sediment control.
- 8. Permanent vegetation shall be installed within 7 days at the completion of any graded area, weather permitting.
- 9. At such time rough grading or the site is complete and drainage diverts to inlets, inlet sediment filters shall be installed at all inlet structures to keep piping systems free of siltation.
- 10. Storm water pollution prevention measures shall be installed around all dirt or topsoil stockpiles and other temporarily disturbed areas.
- 11. Contractor shall inspect all SWPPP measures daily and repair as necessary to prevent erosion. Siltation shall be removed from areas where failures have occurred and corrective action taken within 24 hours to maintain all SWPPP items
- 12. Silt barriers, construction entrances, and silt fences shall remain in place until a good stand of grass has been obtained and/or paving operations are complete. Contractor shall keep silt from entering any storm drainage system. Once site has been completely stabilized, and silt in pipes and drainage swales shall be removed within 10 days.
- 13. All storm water pollution prevention practices shall be installed before any other earth moving occurs.
- 14. The following storm water pollution prevention and sediment control measures will be used on this site:
- A) Silt fence
- B) Filter fabric inlet protection
- D) Erosion EELs E) Temporary seeding
- C) Concrete washout facility
- F) Permanent seeding or sodding
- 15. Sediment shall be removed from sediment controls as necessary but at least when the design capacity of the control has been reduced by 50%.

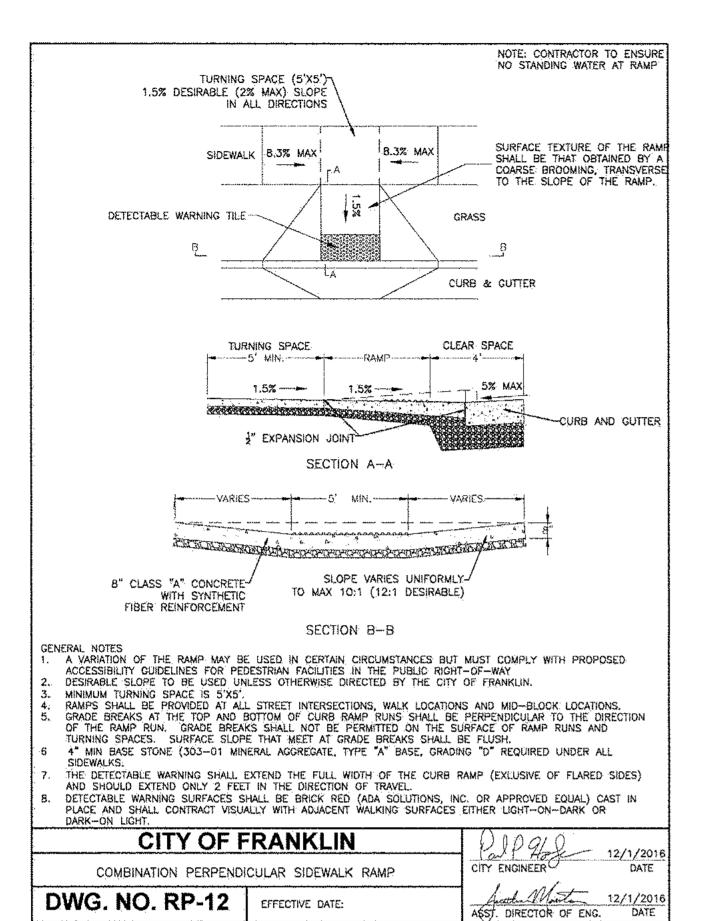
THE CONTRACTOR IS REQUIRED TO ATTEND A PRE-CONSTRUCTION MEETING WITH THE CITY OF FRANKLIN ENGINEERING DEPARTMENT AND STREET DEPARTMENT PRIOR TO THE COMMENCEMENT OF THE PROJECT. CONTACT DERRICK MCCORD AT 615-478-0359 TO SCHEDULE A MEETING.

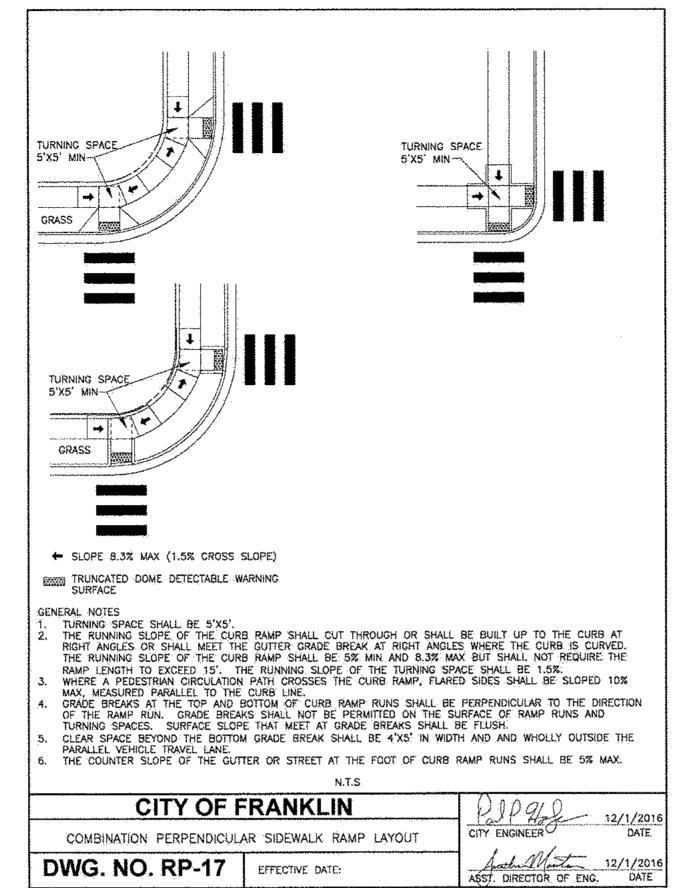
ROAD AND LANE CLOSURES SHALL BE LIMITED TO THE HOURS OF 9AM TO 3PM UNLESS SPECIAL APPROVAL IS RECEIVED FROM THE ENGINEERING DEPARTMENT. EACH SUCH CLOSURE SHALL BE CALLED IN TO THE ENGINEERING DEPARTMENT TRAFFIC OPERATIONS CENTER AT 615-791-3218 WITH 72 HOURS PRIOR NOTICE.

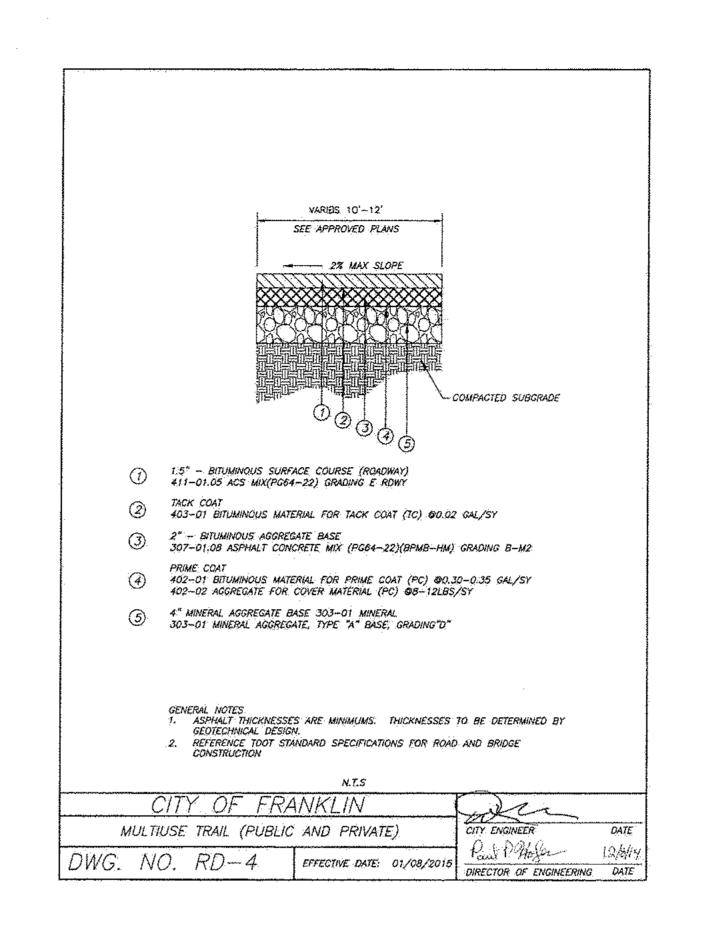
ENGINEERING CONSULTANTS
INEERING SURVEYING LAND PLANNING
LANDSCAPE ARCHITECTURE

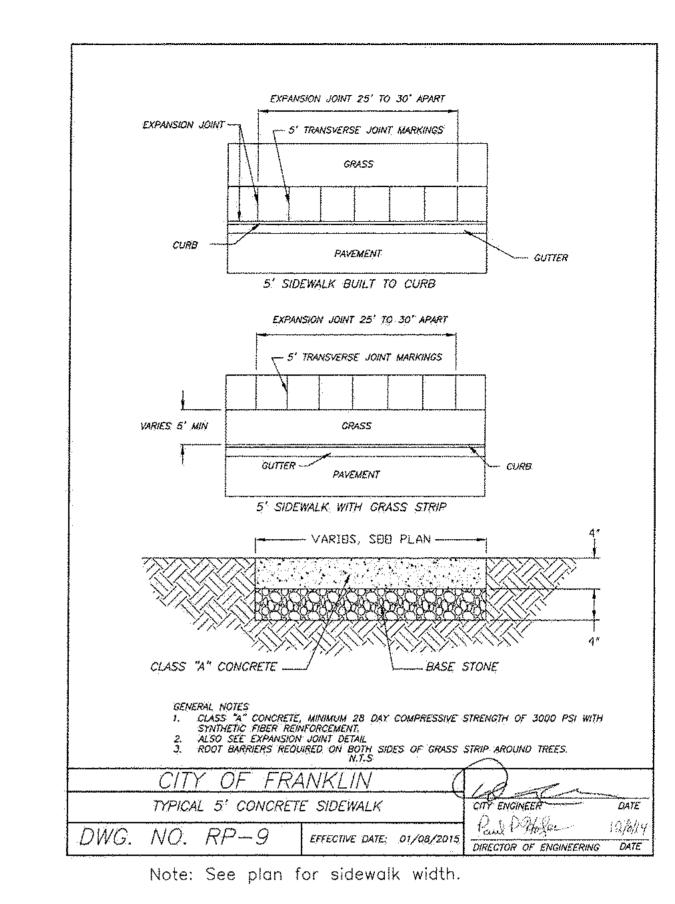
SITE

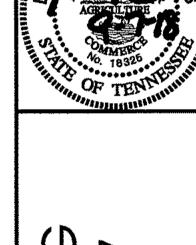
Exhibit A











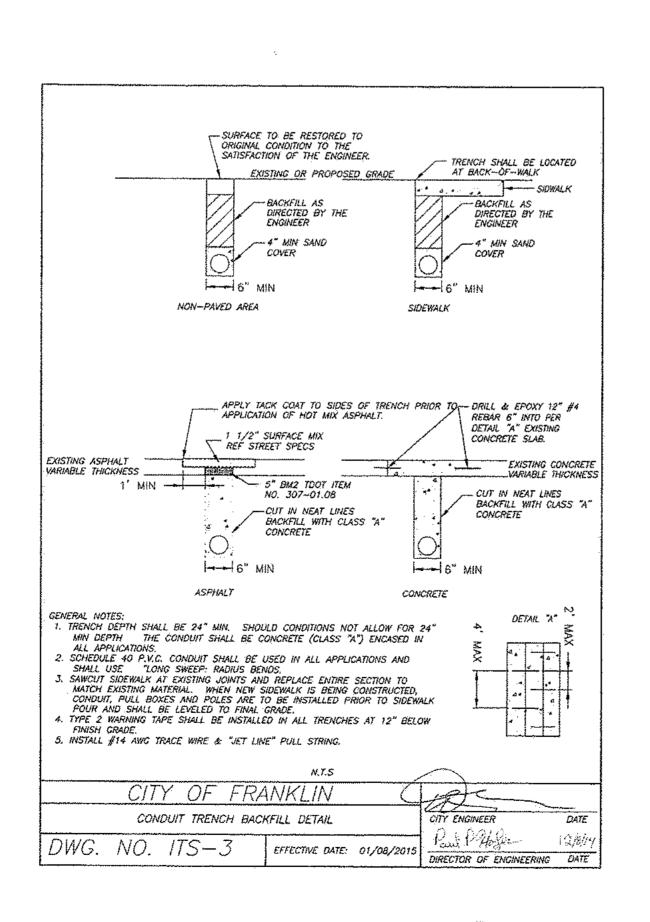


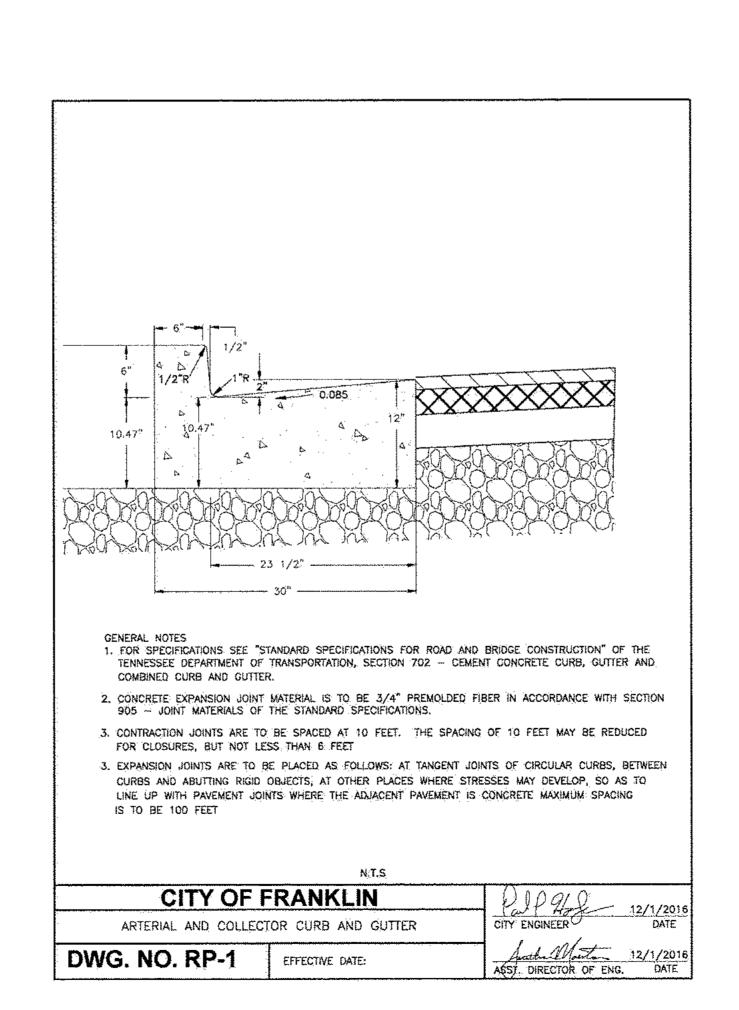
TYPE	TDOT STANDARD DRAWINGS
CATCH BASINS	TDOT CATCH BASINS 10, 12, 13, 14, 16 AND 17 TYPE
CATCH BASINS GRATES	D-CBB-12A AND D-CBB-13 (SEE NOTE 1 AND 2 BELOW)
AREA DRAINS - 1 GRATE	D-CB-42 SERIES
AREA DRAINS - 2 GRATES	D-CB-43 SERIES
AREA DRAIN GRATES	D-CBB-42
JUNCTION BOX	D-JBS-1 THRU D-JBS-5
MANHOLES	D-MH-2 THRU DRF-1
TRENCH DRAINS	D-TD-1
PROTECTED ENDWALLS	D-PE1 THRU D-PE-9F
PIPE CULVERTS AND FLUMES	D-FLU-1, D-PB-1 THRU D-PB-3

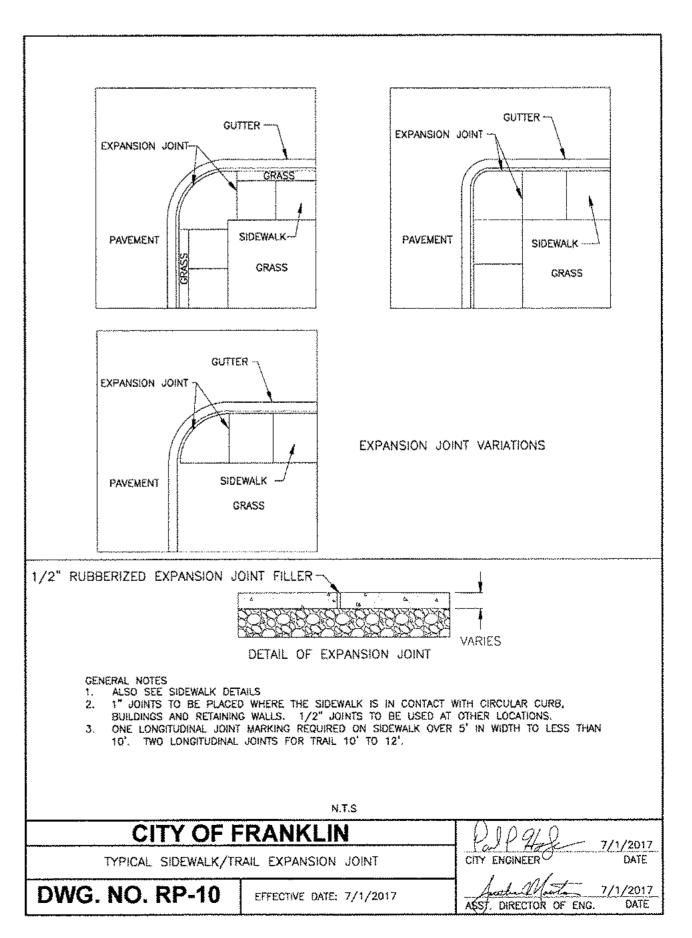
1. USE OF ROLLOVER CURB & GUTTER SHALL BE USED WITH A NENA R-3501-TR, R-3501-TL TYPE "L" GRATE WITH ENVIRONOTICE PLATES R-3000-C SURFACE MOUNT OR APPROVED EQUAL.

2. USE OF 24" CURB AND GUTTER SECTION SHALL BE USED WITH A NENA R~3067 TYPE "L" GRATE WITH ENVIRONOTICE PLATES R-3000-C SURFACE MOUNT. 3. INLETS, DRAINS, GRATES, MANHOLES AND ENDWALLS TO BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE TOOT STANDRAD DRAWINGS

W.T.S			
 CITY OF FRANKLIN		Jalus 16 -	<del></del>
 DRAIANGE STRUCTURES, MANHOLES, GRATES AND ENDWALLS		CITY ENGINEER	DATE
 DWG. NO. D-1 EFFECTIVE DATE: 01/08/2:	015	Paul Policy DIRECTOR OF ENGINEERING	12/8/
		UNINECTOR OF ENGINEERING	DATE



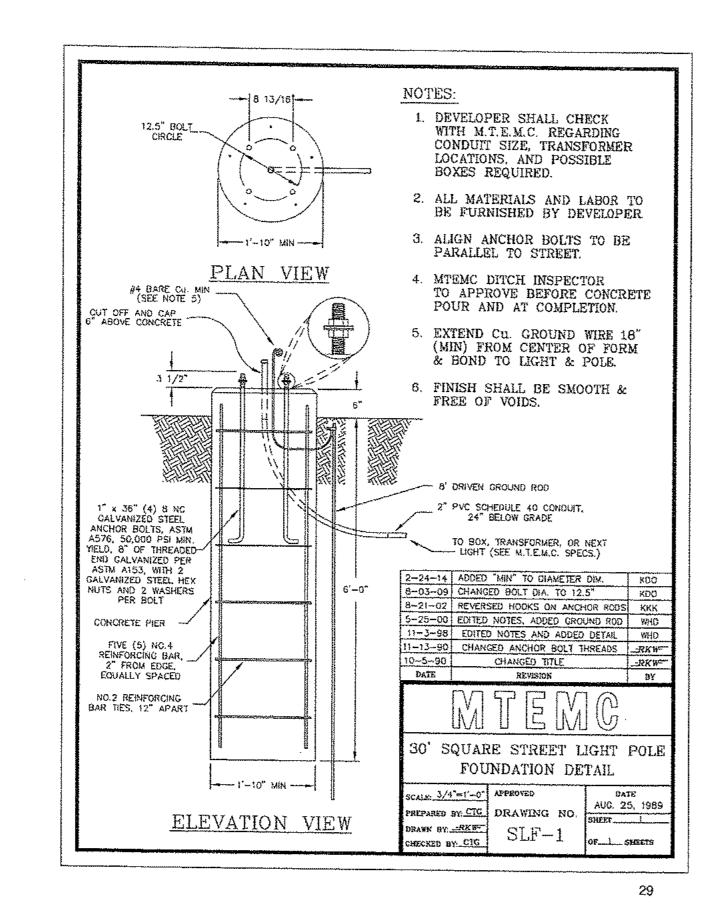




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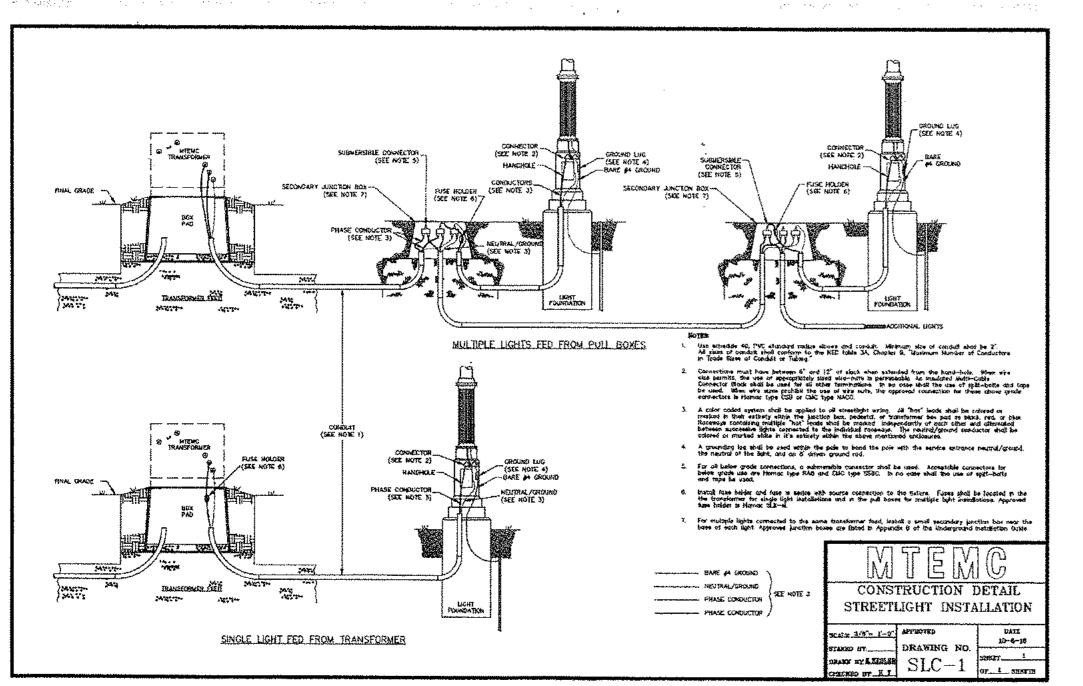
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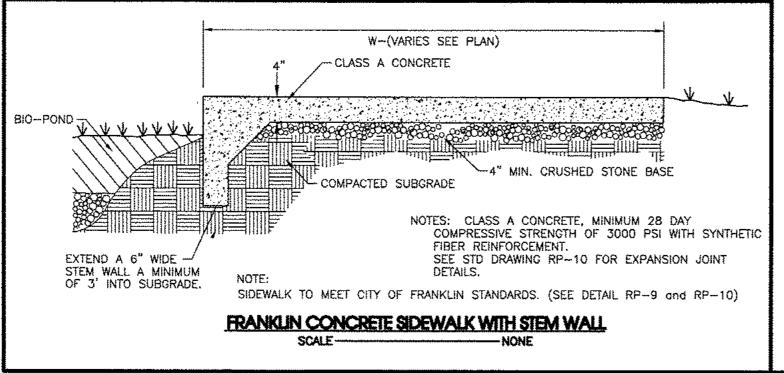


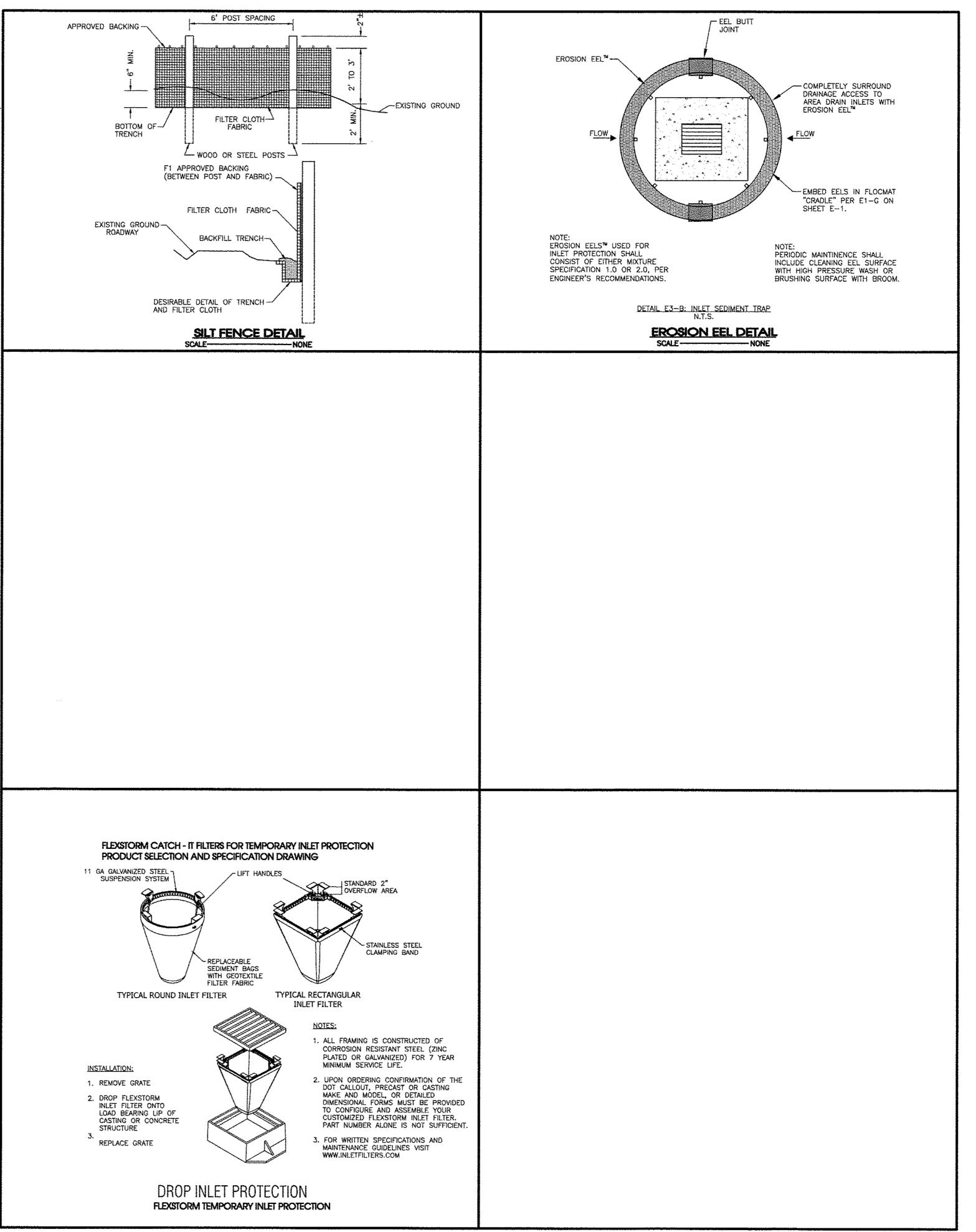
NOTE: MTEMC APPPROVED UNDERGROUND BOXES (AS OF 11-13-2014)

SECONDARY JUNCTION BOX (SMALL) STREET LIGHT INSTALLATION ONLY:
HUBBELL QUAZITE PG1324Z594MT
HIGHLINE PHA132418SE732
OLDCASTLE 13246038

ALL WORK AND EQUIPMENT SHALL MEET THE SPECIFICATIONS OF MTEMC AND SHALL BE APPROVED BY MTEMC.







SITE ENGINEERING SURVEYING CONSULTANTS

ENGINEERING SURVEYING CONSULTANTS

ENGINEERING SURVEYING CAND PLANNING

LANDSCAPE ARCHITECTURE

B50 MIDDLE TENNESSEE BOULEVARD MURFREESBORO, TENNESSEE 37129

NO PORTION OF THIS DRAWING MAY BE REPRODUCED WITHOUT THE EXPRESSED WRITEN CONSENT OF S.E.C. INC.

The site as shown on these construction drawings is intended to achieve specific engineering design criteria and objectives. It is the sold presentability of the construction drawings is intended to achieve specific engineering design criteria and objectives. It is

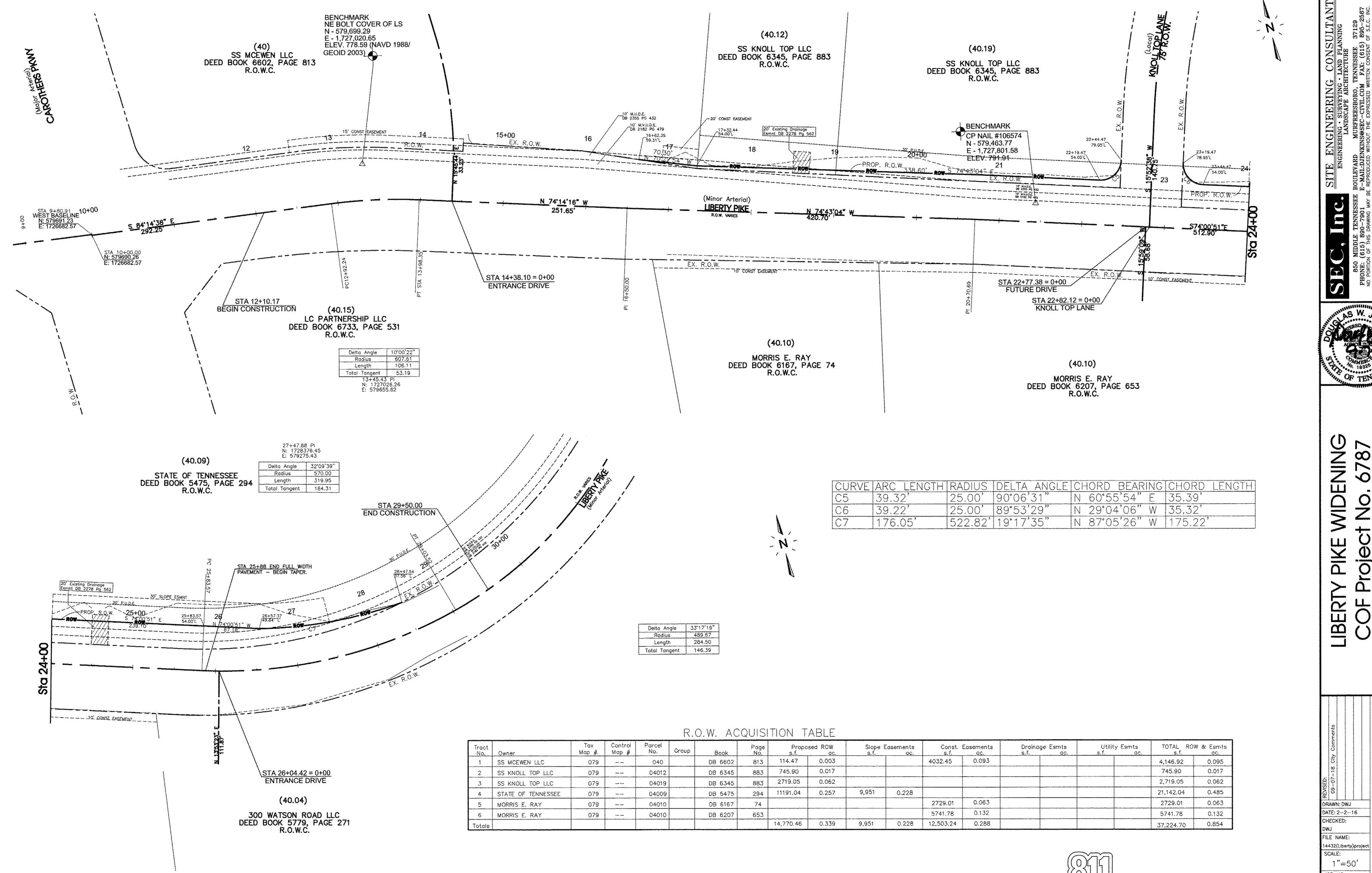
IDENING Vo. 6787

LIBERTY PIKE WIDE COF Project No.

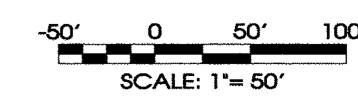
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14432project
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1"=50'
JOB NO.
14432

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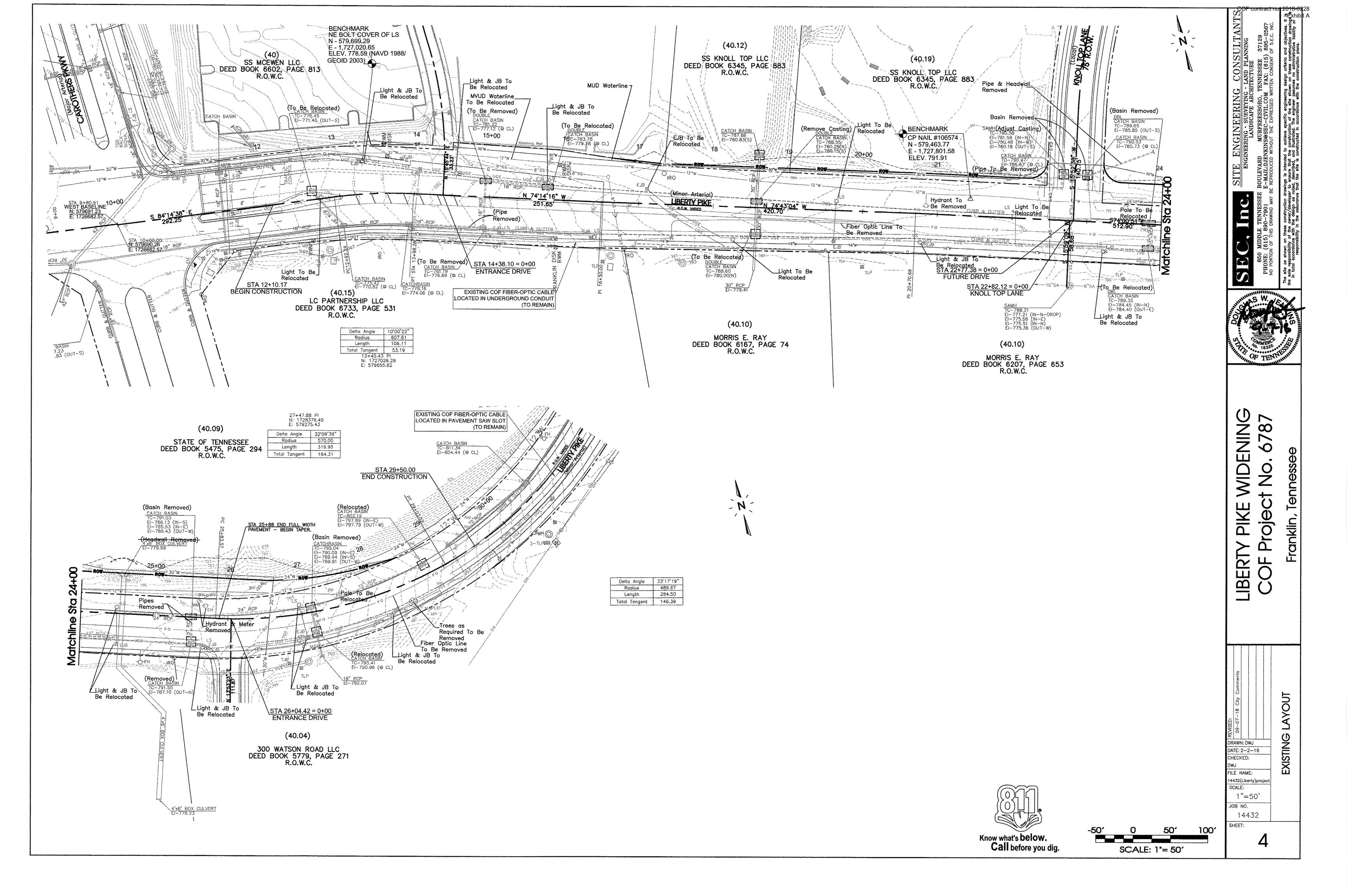


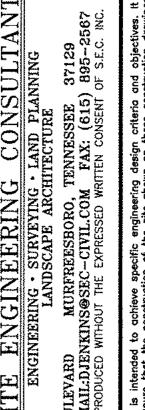




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**DNIN** WIDE **Project** LIBERTY COF Pr

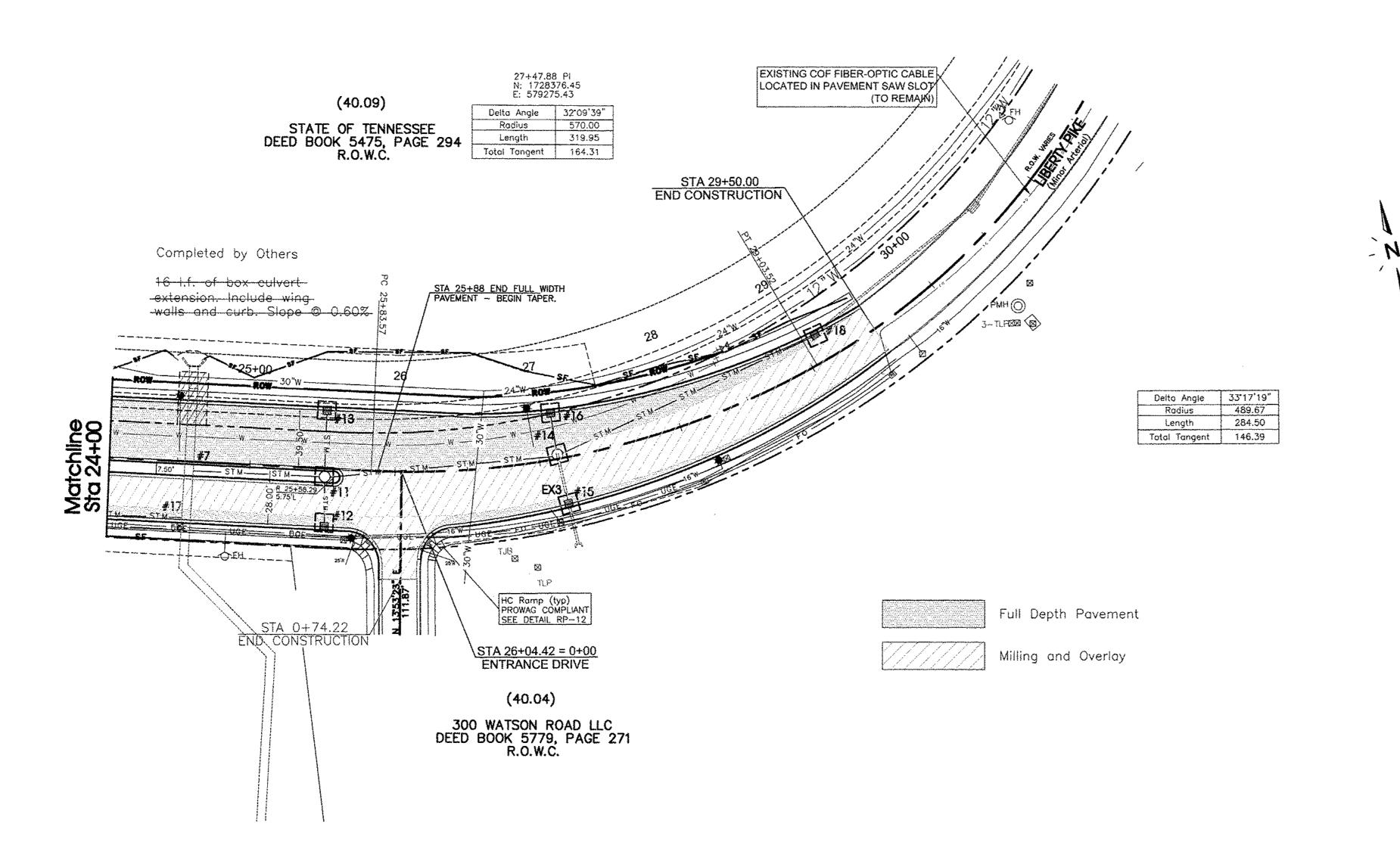
Tennesse

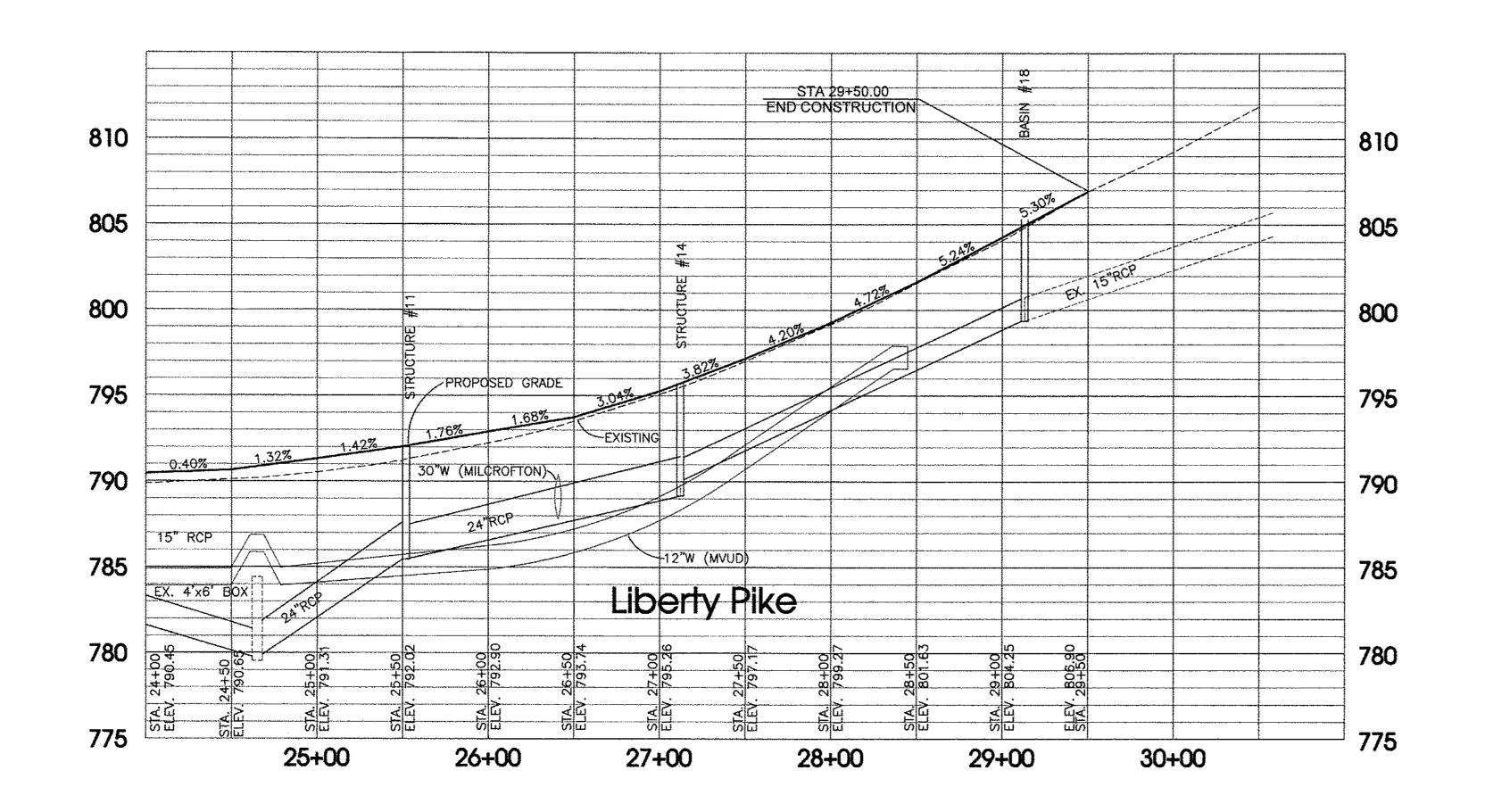
Franklin,

DRAWN: MLG DATE: 2-2-16 FILE NAME: 15316project SCALE: 1"=50" JOB NO.

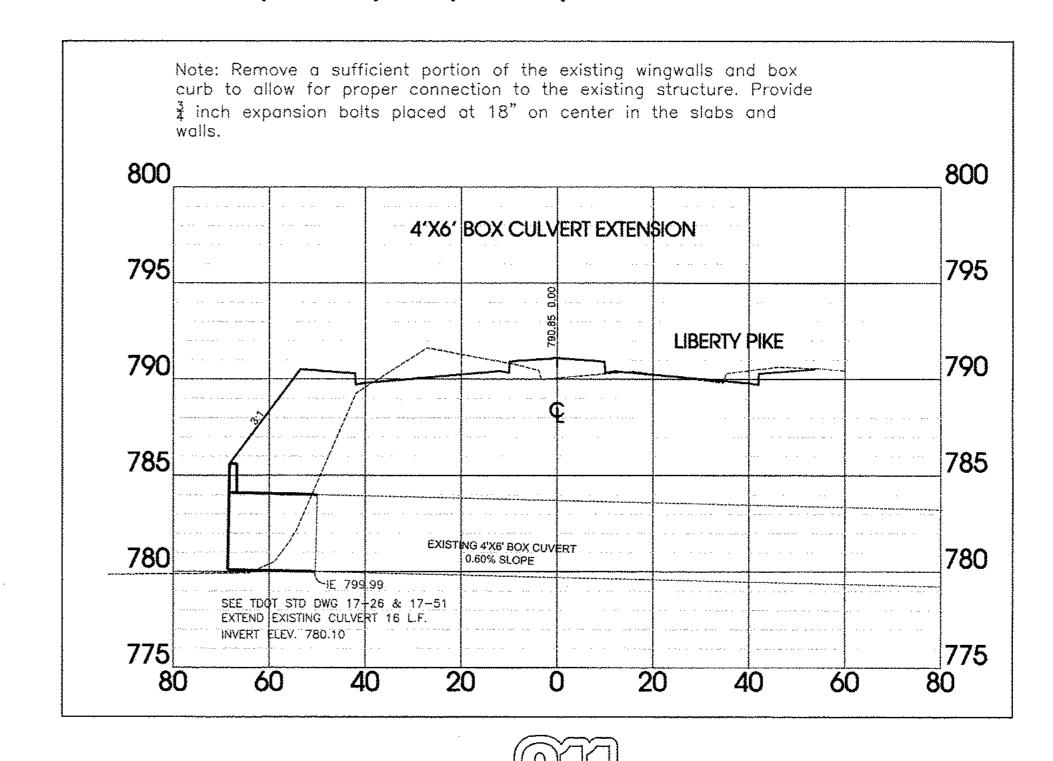
15316

SCALE: 1"= 50'



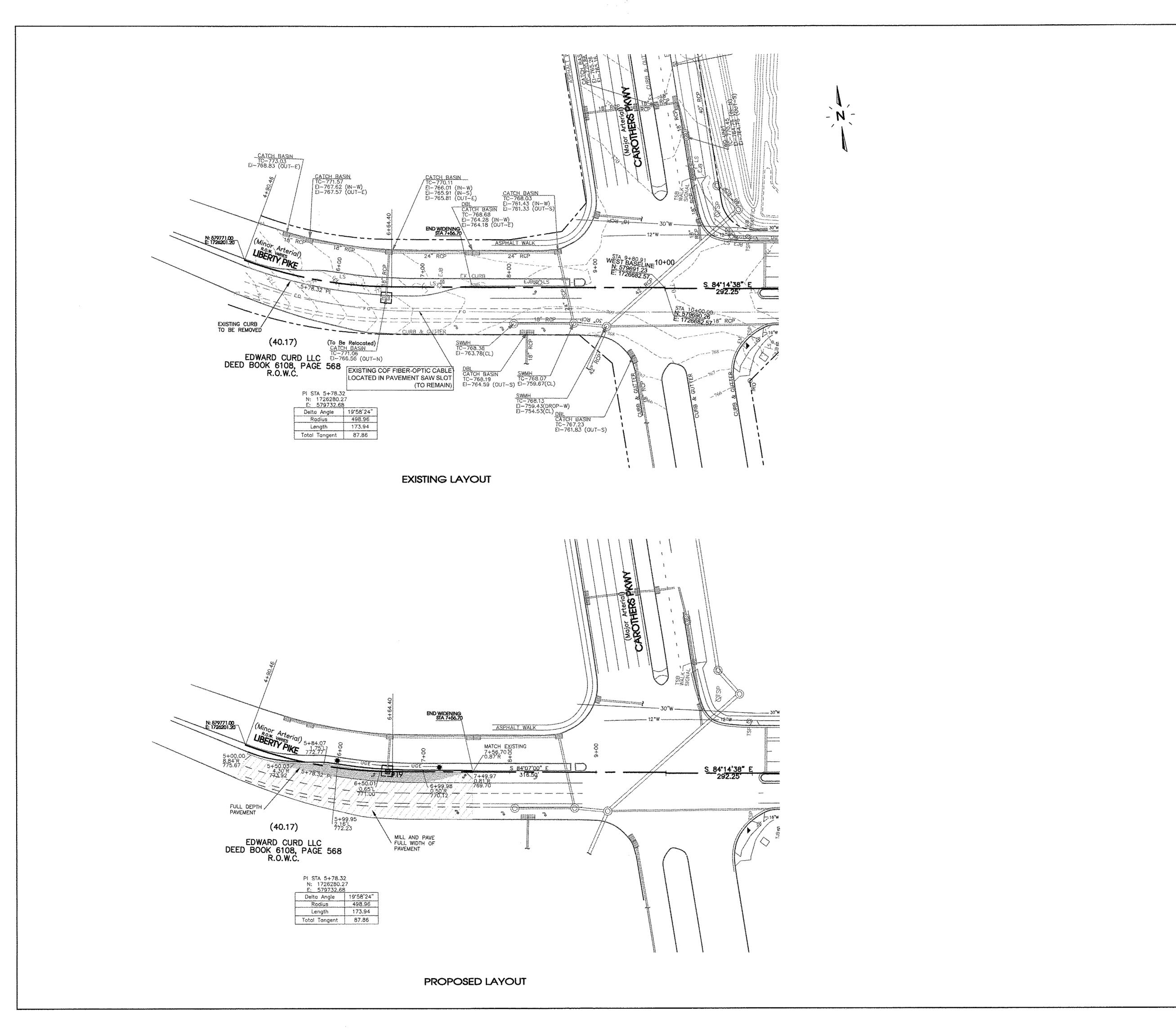


## The Box Culvert Extension has been previously completed by others.



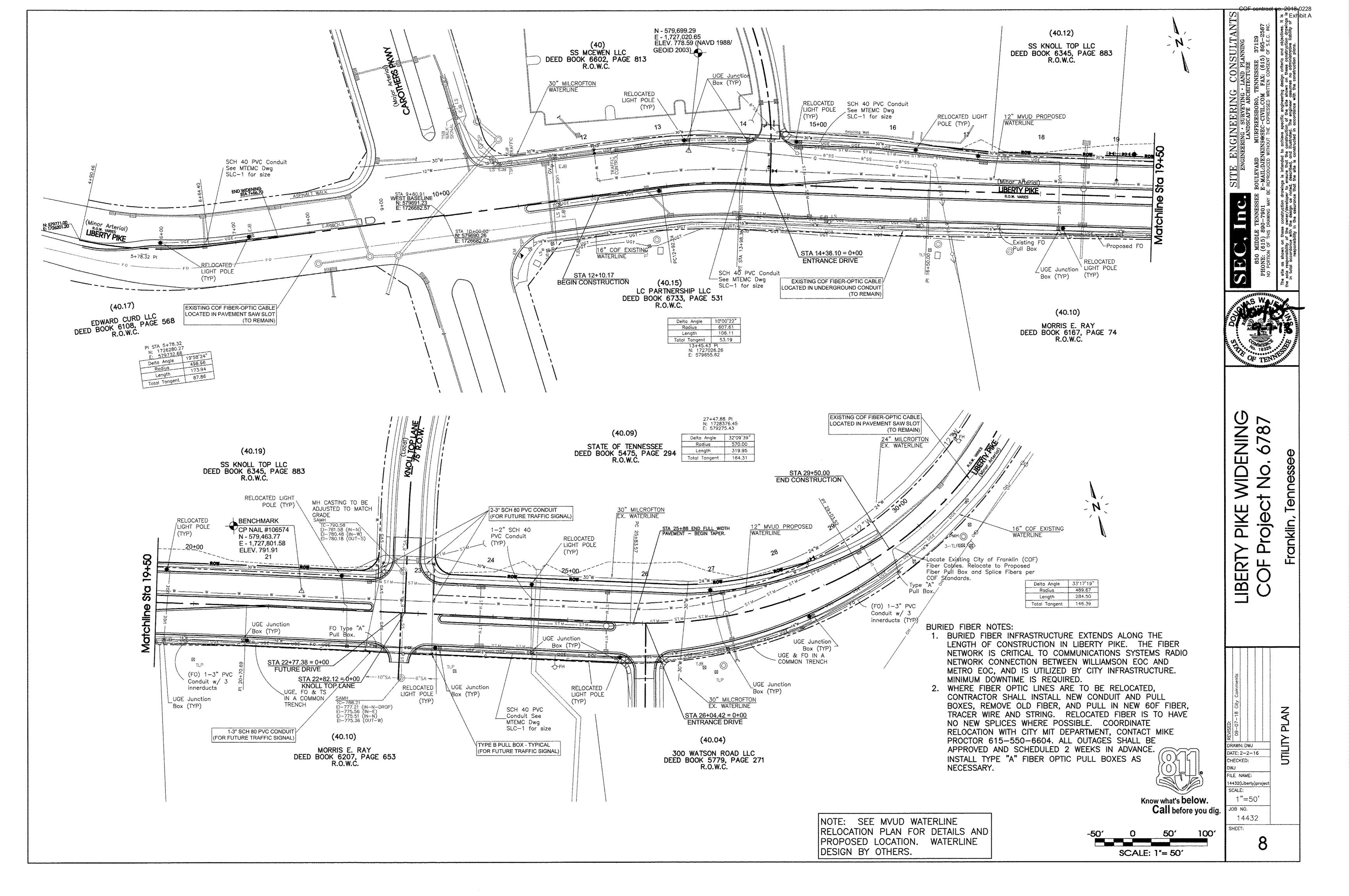
Know what's below.

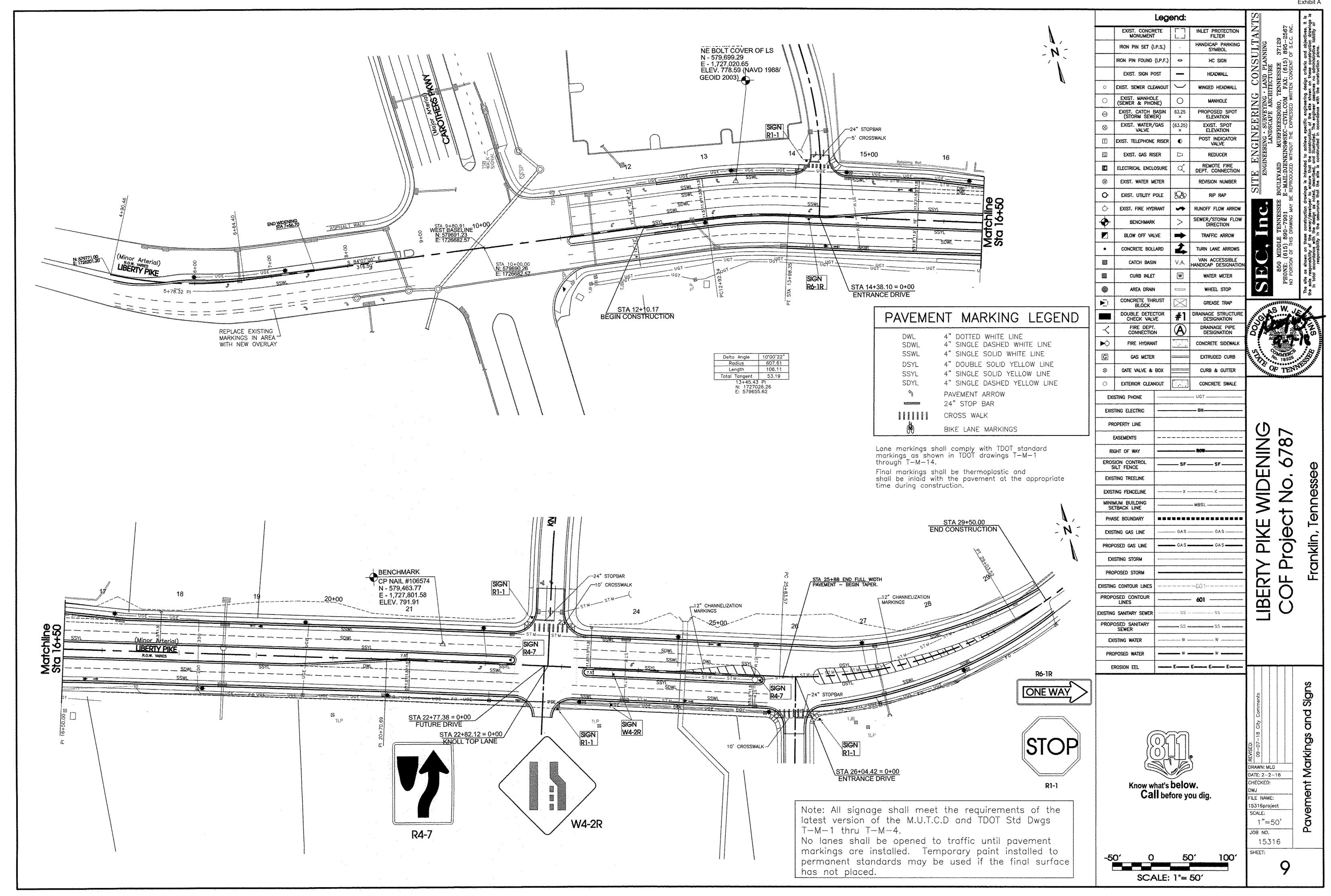
Call before you dig.

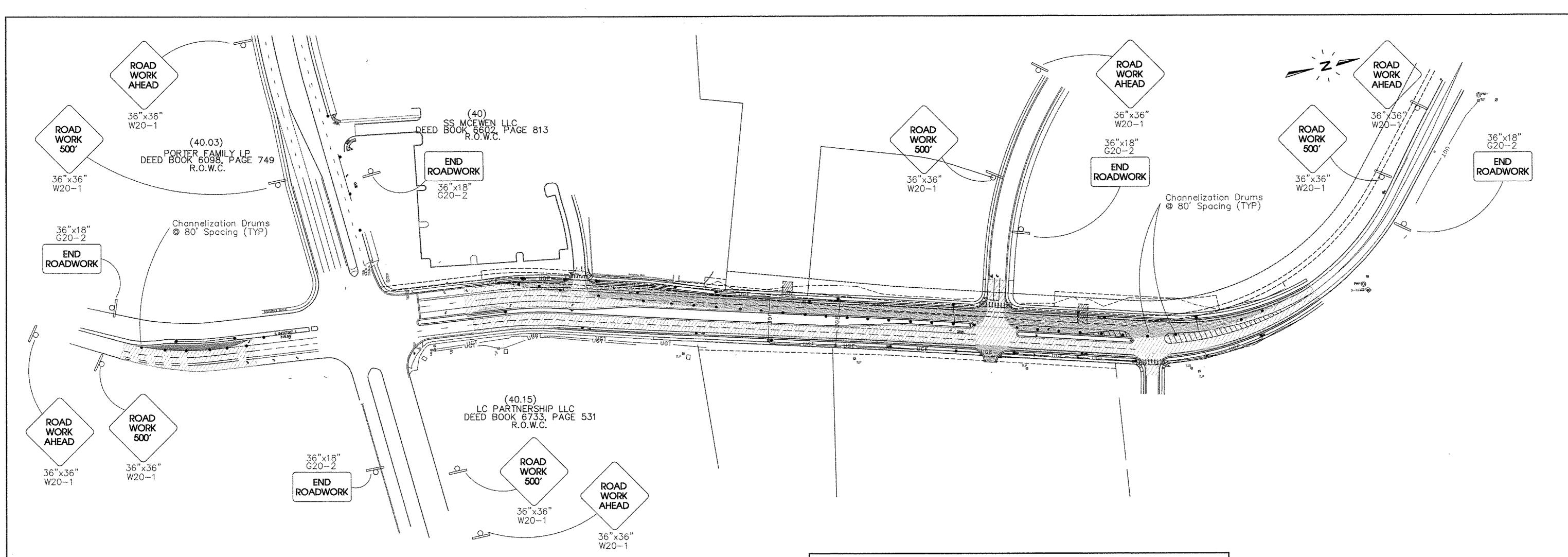


Legend: INLET PROTECTION FILTER EXIST. CONCRETE MONUMENT HANDICAP PARKING SYMBOL IRON PIN SET (I.P.S.) IRON PIN FOUND (I.P.F.) EXIST. SIGN POST HEADWALL. EXIST. SEWER CLEANOUT WINGED HEADWALL EXIST. MANHOLE (SEWER & PHONE) MANHOLE EXIST. CATCH BASIN 63.25 (STORM SEWER) × PROPOSED SPOT ELEVATION EXIST. SPOT ELEVATION EXIST. WATER/GAS (63.25)
VALVE × POST INDICATOR VALVE REDUCER EXIST. GAS RISER REMOTE FIRE DEPT. CONNECTION ELECTRICAL ENCLOSURE EXIST. WATER METER REVISION NUMBER EXIST. UTILITY POLE RIP RAP EXIST. FIRE HYDRANT RUNOFF FLOW ARROW SEWER/STORM FLOW DIRECTION BLOW OFF VALVE CONCRETE BOLLARD VAN ACCESSIBLE HANDICAP DESIGNATION CATCH BASIN CURB INLET WATER METER WHEEL STOP area drain CONCRETE THRUST BLOCK GREASE TRAP DOUBLE DETECTOR CHECK VALVE DRAINAGE STRUCTURE DESIGNATION DRAINAGE PIPE DESIGNATION FIRE DEPT. CONNECTION FIRE HYDRANT CONCRETE SIDEWALK EXTRUDED CURB GAS METER CURB & GUTTER GATE VALVE & BOX EXTERIOR CLEANOUT CONCRETE SWALE EXISTING PHONE EXISTING ELECTRIC PROPERTY LINE Widening † No. 6787 EASEMENTS  $\infty$ 9 SILT FENCE EXISTING TREELINE EXISTING FENCELINE MINIMUM BUILDING SETBACK LINE PHASE BOUNDARY EXISTING GAS LINE PROPOSED GAS LINE EXISTING STORM Liberty PROPOSED STORM EXISTING CONTOUR LINES PROPOSED CONTOUR LINES EXISTING SANITARY SEWER PROPOSED SANITARY SEWER EXISTING WATER PROPOSED WATER EROSION EEL DRAWN: MLG DATE: 2-2-16 Know what's below.

Call before you dig. CHECKED: FILE NAME: 14432project SCALE: 1"=50' JOB NO. 14432 SHEET: SCALE: 1"= 50'







TRAFFIC CONTROL NOTES

- (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.
- IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.
- A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY
- USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS 30-FOOT SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC. UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS 30-FOOT SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- THIS SET OF PLANS IS NOT INTENDED TO SUPERSEDE OR RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY TOWARD MOTORISTS OR PROPERTY OWNERS WITHIN THE CONSTRUCTION LIMITS.
- THE CONSTRUCTION SIGNING IS TO SERVE AS A GUIDE ONLY. OTHER SIGNS MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION. ALL REGULATORY AND WARNING SIGNS WHICH ARE NO LONGER APPROPRIATE BECAUSE OF THE CONSTRUCTION SHALL BE COVERED OR REMOVED.
- (10) THE APPROPRIATE TRAFFIC CONTROL SHALL BE INSTALLED AT THE INCEPTION OF EACH STAGE OF CONSTRUCTION AND SHALL BE PROPERLY MAINTAINED AND/OR OPERATED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED AND SHALL BE IMMEDIATELY REMOVED THEREAFTER.
- (11) ALL TRAFFIC CONTROL DEVICES AND THEIR INSTALLATION SHALL MEET THE STANDARD PRESCRIBED IN THE STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL COMPLY WITH THE STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION, BUREAU OF HIGHWAYS, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 712 - TEMPORARY TRAFFIC CONTROL.
- (12) BARRICADE WARNING LIGHTS SHALL BE ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD FOR FLASHING AND STEADY BURN BARRICADE WARNING LIGHTS 1978.

- (14) THE TRAFFIC CONTROL PLAN AS SHOWN SHALL BE CONSIDERED AS A MINIMUM OTHER DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER. EXTRA PAYMENT WILL BE MADE UNDER THE APPROPRIATE ITEM.
- (15) ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED IMMEDIATELY UPON COMPLETION OF THE PROJECT.
- TYPE III BARRICADES OR DRUMS WITH ATTACHED TYPE C WARNING LIGHTS BE PROVIDED AS NECESSARY TO PROVIDE SAFE MOVEMENT OR TRAFFIC THROUGH CONSTRUCTION ZONE AT 40' C TO C. PARTICULAR ATTENTION SHALL BE PAID AT PAVEMENT EDGES WHERE CURB & GUTTER OR SHOULDERS ARE REMOVED OR TO BE
- (23) ANY LANE CLOSURES SHALL BE SIGNED IN ACCORDANCE WITH SECTION VI OF
- (24) THE CONTRACTOR IS DIRECTLY RESPONSIBLE FOR THE PROVISION OF ANY AND ALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH MUTCD AND SECTION 712 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- (25) ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED IMMEDIATELY UPON COMPLETION OF THE PORTION OF THE PROJECT. DURING CONSTRUCTION CONTRACTOR SHALL FOLLOW T.D.O.T.'S "GUIDELINES FOR HANDLING DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS".
- (26) PRIOR TO CLOSING ANY ROAD TO THROUGH TRAFFIC, THE CONTRACTOR WILL BE REQUIRED TO NOTIFY ALL AFFECTED LOCAL AGENCIES CONCERNING THE ROAD CLOSURE. THE AGENCIES TO BE CONTACTED SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: FIRE DEPT., SHERIFFS DEPT., POST OFFICE, BOARD OF EDUCATION, ETC.
- (27) SIGNAGE SHALL COMPLY WITH M.U.T.C.D. AND WITH T.D.O.T. STD. DWGS. T-M-1 THROUGH T-M-4.
- (28) TRAFFIC AND STREET NAME SIGNS SHALL BE RELOCATED AND RESET AS AN INTEGRAL PART OF THE WORK.
- (29) TRENCHES IN STREETS TEMPORARILY REOPENED TO TRAFFIC SHALL BE MAINTAINED AND SURFACED WITH COLD MIX OR BINDER UNTIL FINAL CONSTRUCTION.
- (30) THE CONTRACTOR MAY DEVELOP AN ALTERNATE TRAFFIC CONTROL PLAN IF APPROVED BY THE CITY TRAFFIC DEPT AND CITY ENGINEER.
- (31) ACCESS TO PROPERTY WITHIN CONSTRUCTION LIMITS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- (32) CONTRACTOR SHALL FURNISH FLAGGER(S) AS NECESSARY. COST IS TO BE INCLUDED IN ITEM FOR TRAFFIC CONTROL.
- (33) THESE PLANS ARE NOT INTENDED TO SUPERSEDE OR RELEIVE THE CONTRACTOR OF ANY RESPONSIBILITY TOWARD MOTORISTS OR PROPERTY OWNERS WITHIN CONSTRUCTION LIMITS OR TOWARD INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH CURRENT M.U.T.C.D. REQUIREMENTS.

ROAD AND LANE CLOSURE SHALL BE LIMITED TO THE HOURS OF 9AM TO 3PM UNLESS SPECIAL APPROVAL IS RECEIVED FROM THE ENGINEERING DEPARTMENT. EACH SUCH CLOSURE SHALL BE CALLED IN TO THE ENGINEERING DEPARTMENT TRAFFIC OPERATIONS CENTER 615-791-3218 WITH 72 HOURS PRIOR NOTICE.

	CONSTRUCT	ION SIGNS	5	
ITEM	DESCRIPTION	SIZE	# REQ'D	SF
G20-2	END ROAD WORK	36" x 18"	5	22.5
W20-1	ROAD CONSTRUCTION AHEAD	36" x 36"	10	90
	TOTAL			112.5

## TRAFFIC CONTROL LEGEND

TRAFFIC DIRECTION OF FLOW FLEXIBLE DRUM

AREA OF CONSTRUCTION

TEMPORARY CONSTRUCTION SIGN BARRIER WALL

TYPE III BARRICADE

WARNING SIGN



Know what's below. Call before you dig.

100'

200' **SCALE: 1"= 100'** 

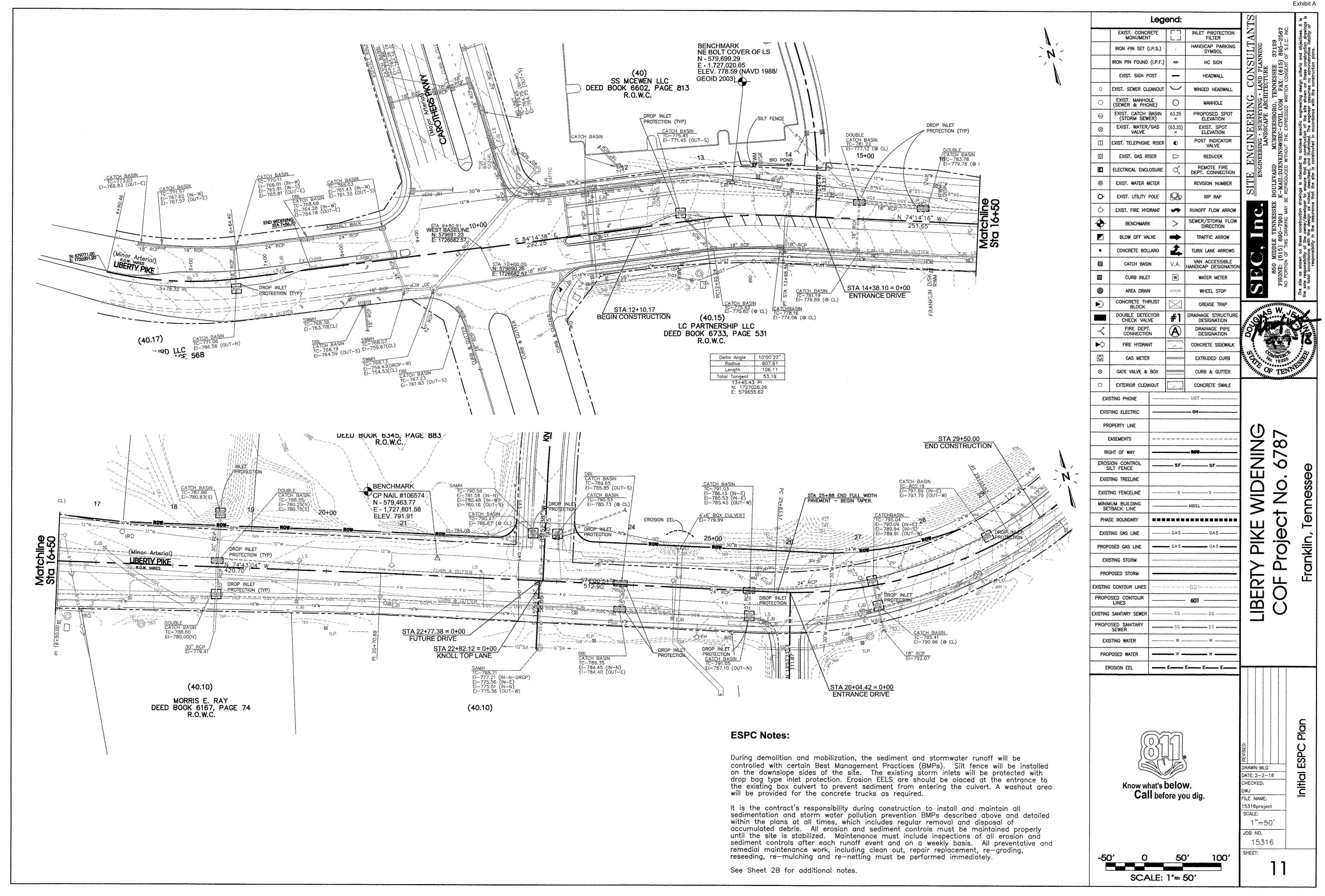
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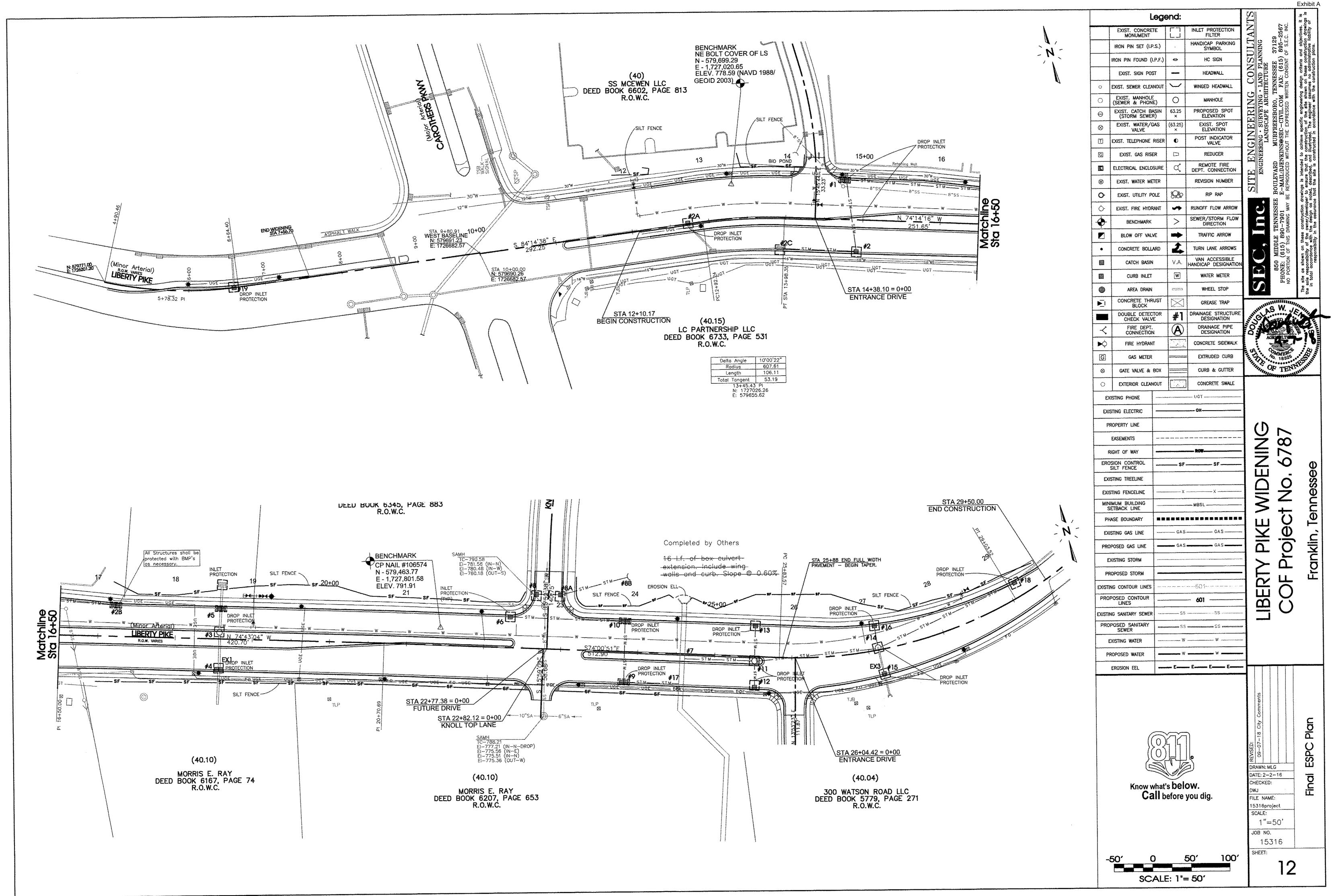
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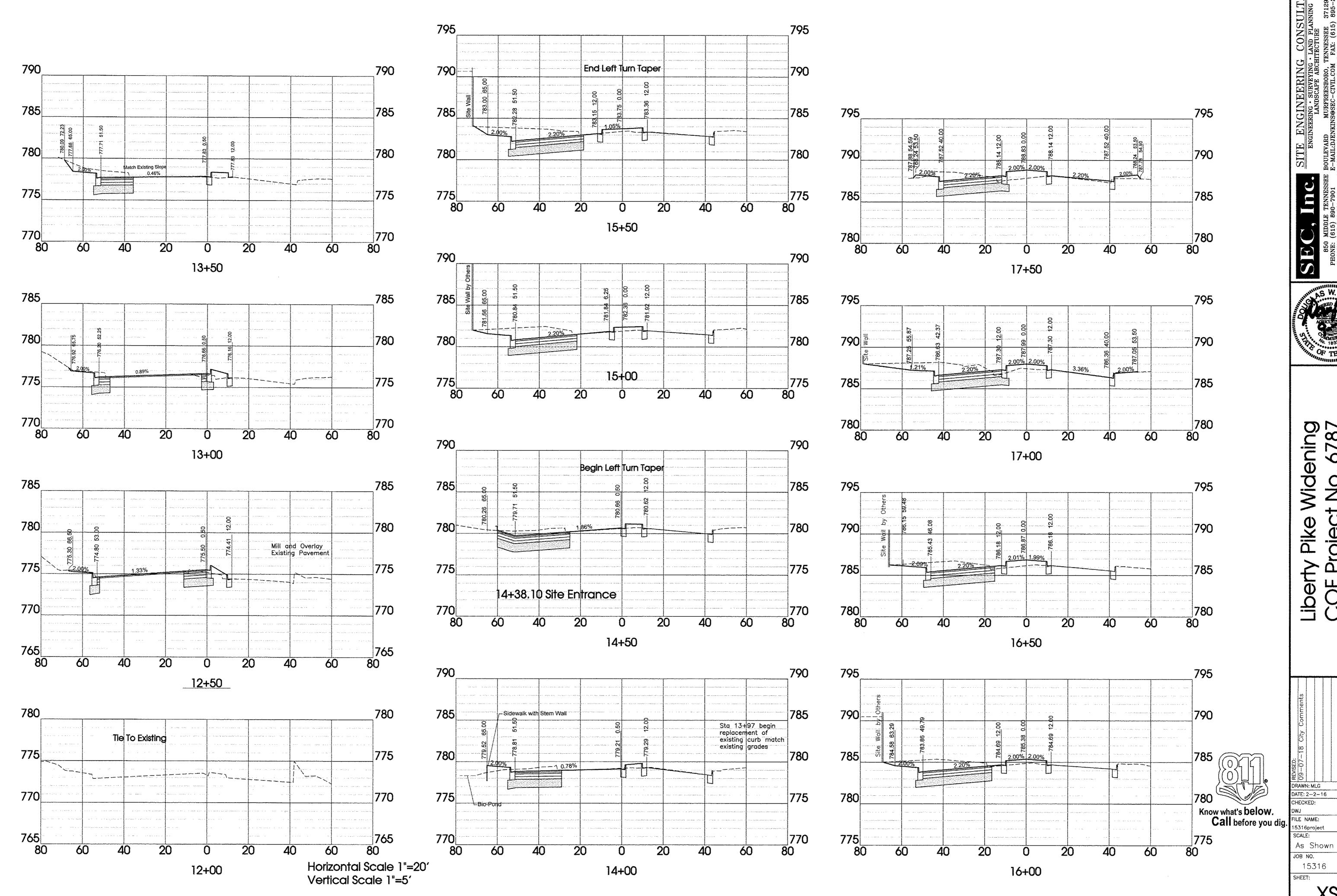
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15316







Widening t No. 6787 Project No. Pike Liberty COF Pr

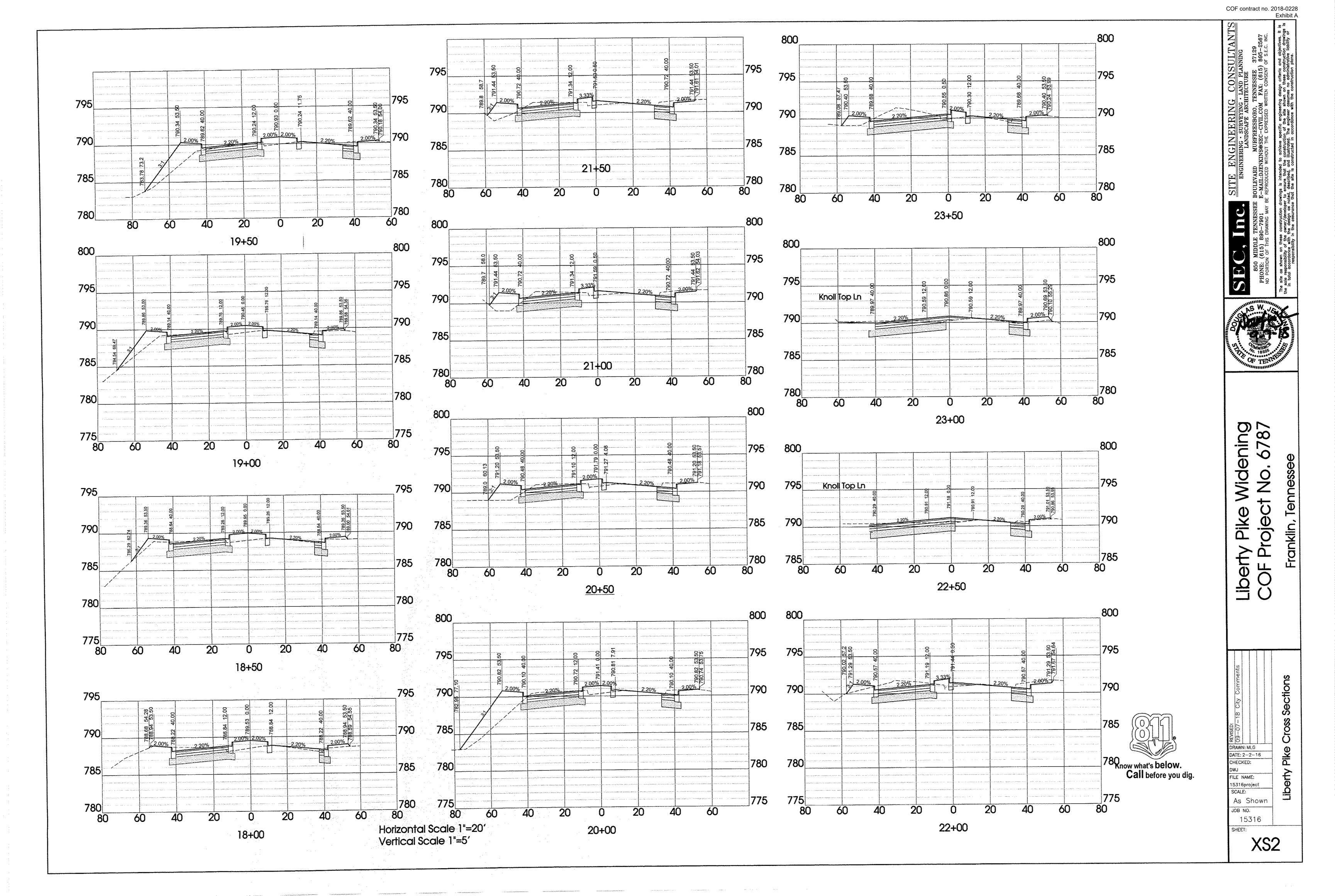
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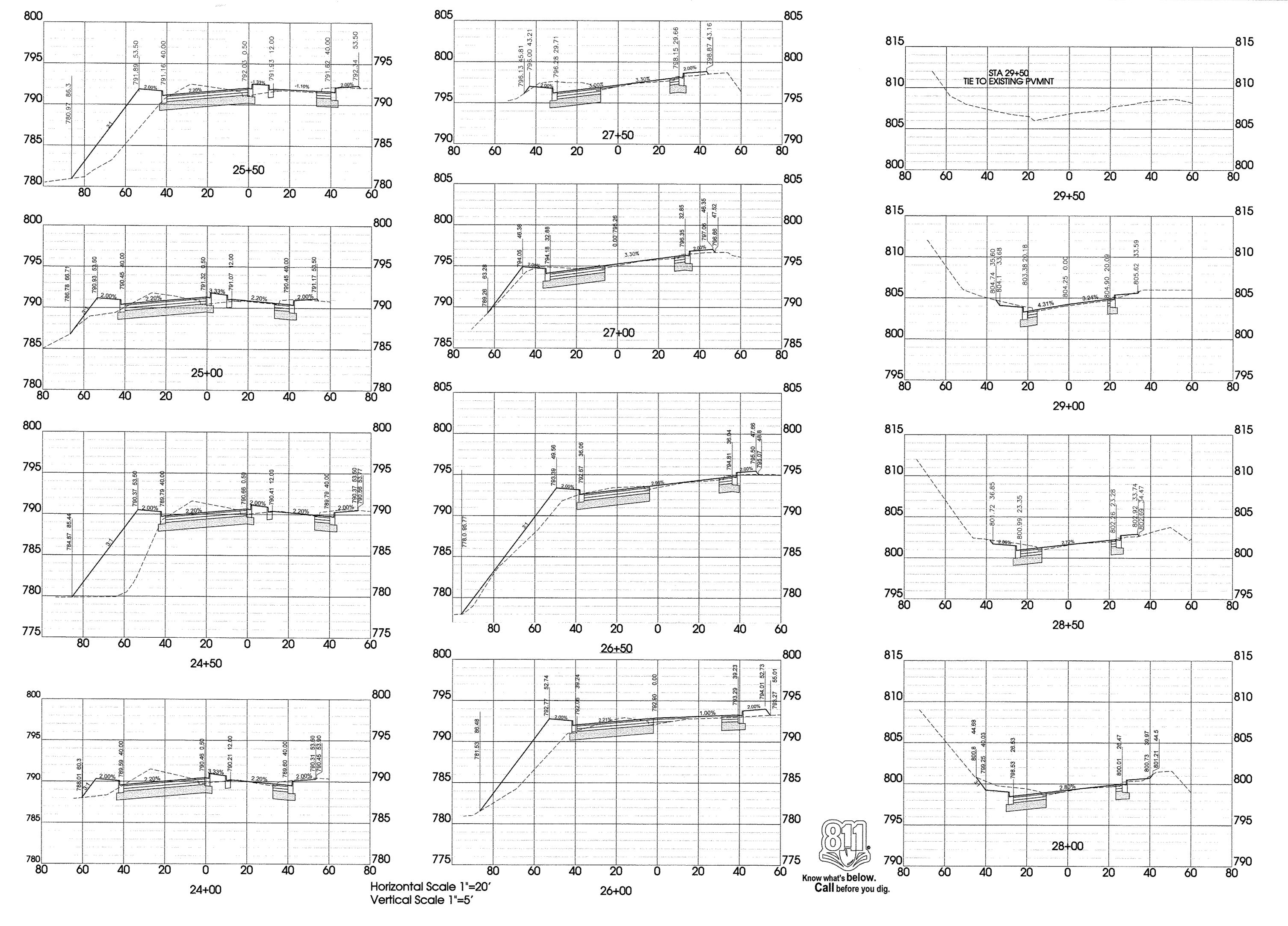
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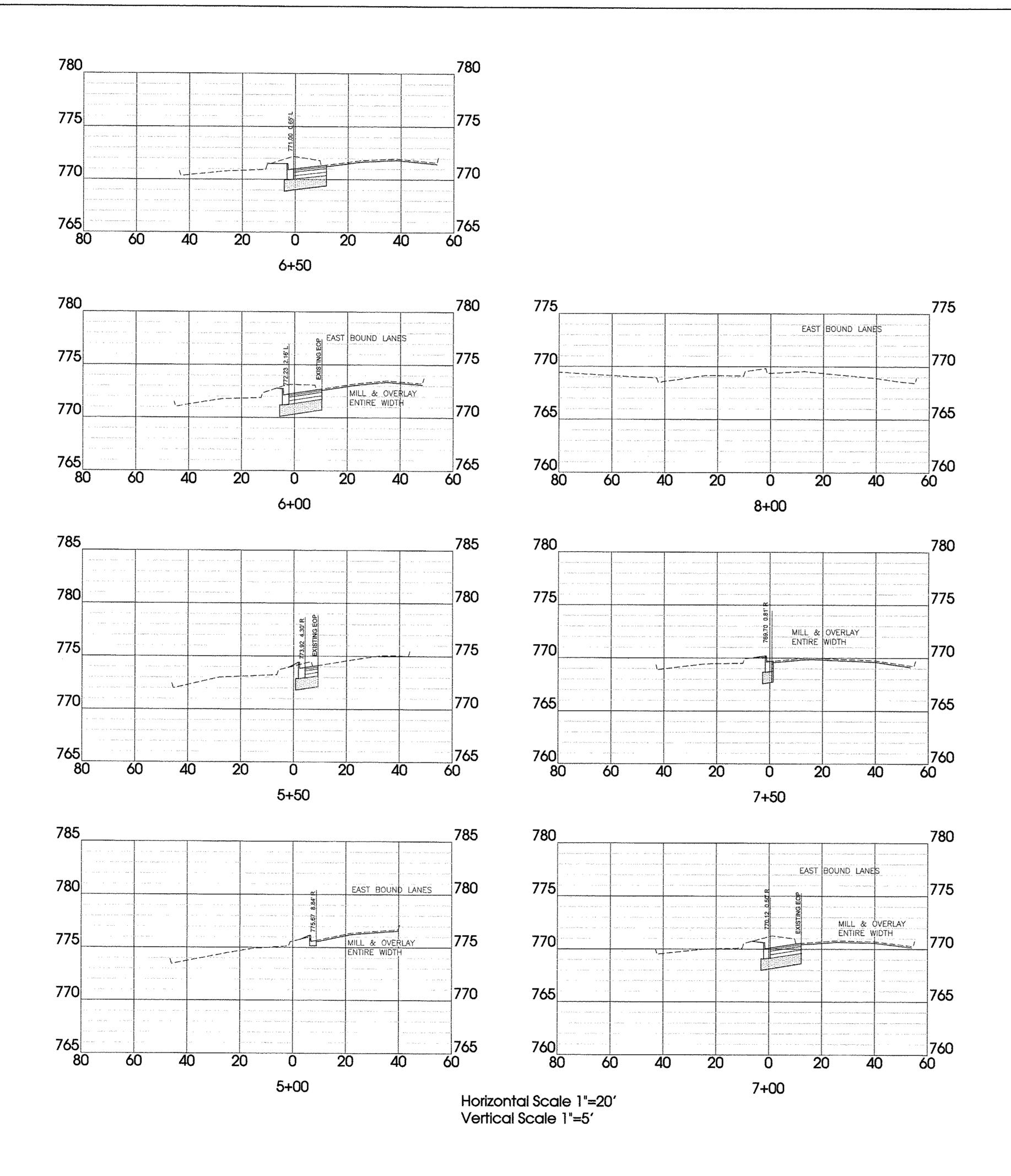
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DATE: 2-2-16 As Shown

15316

XS1









Wide Liberty COF Pr

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As Shown JOB NO. 15316

XS4

## Williamson County Property Assessment

## **Database**

# Property Details for: 5060 CAROTHERS PKWY

County Number 94

Current Tax Year 2018

## **Property Owner and Address**

Owner

TRI STAR ENERGY LLC

Address

1740 ED TEMPLE BLVD

NASHVILLE, TN 37208

## **Property Location**

Address

Ctr

5060 CAROTHERS PKWY

DI

09 079

Map Parcel 079

Group

04022

PI

SI

000

148

## Value Information

Valuation Year 2017

**Market Appraisal** 

Land Market Value \$1,254,000

Improvement Value \$0

Total Market Appraisal \$1,254,000

Assessment % 40%

Assessment \$501,600

## **General Information**

**Lot Dimensions** 0.0 × 0.0 **Legal Acreage** 2.2800

Property Class 108 Commercial

City Franklin (263264)

Subdivision & Lot 1. CAROTHERS CROSSING EAST, lot Plat Book & Page 1. Book: 64, Page:

0004

## **Building Information**

No buildings on record

## **Features**

No features on record

## Sales Information

Sales Date	Price	Deed Book	Deed Page
2016-10-27	\$3,809,322	6915	810

#### Facilities Tax

Residential – Single-Family Detached Dwellings	\$.89 Per Gross SQ. FT. to include heated and unheated			
Non-Residential	\$1.18 Per Gross SQ. FT.			
Other Residential – including Condos, Townhomes, Duplexes, and Apartments	\$.71 Per SQ. FT.			

#### Road Impact Fees Implementation of Fee Schedule

Land Use Type	Unit	Pre-2011	Effective <sup>1</sup> 1-Jul-11	Effective <sup>2</sup> 1-Jul-12	Effective <sup>3</sup> 1-Jul-13	Effective 4 1-Sep-14
Single-Family Detached	Dwelling	\$2,191.00	\$2,700.00	\$3,514.00	\$4,227.00	\$4,911.00
Multi-Family	Dwelling	\$1,537.00	\$1,844.00	\$2,336.00	\$2,766.00	\$3,112.00
Mobile Home Park	Site	\$1,144.00	\$1,378.00	\$1,752.00	\$2,079.00	\$2,338.00
Congregate Care Facility	Dwelling	\$440.00	\$566.00	\$767.00	\$943.00	\$1,093.00
Hotel/Motel	Room	\$1,126.00	\$1,432.00	\$1,922.00	\$2,350.00	\$2,567.00
Retail/Commercial				- Paperanios	\$2,000.00	92,307.00
Shopping Center/General Retail	1000 sq. ft.	\$2,681.00	\$3,510.00	\$4,836.00	\$5,996.00	\$6,484.00
Restaurant, Quality	1000 sq. ft.	\$4,964.00	\$6,499.00	\$8,955.00	\$11,104.00	\$12,069.00
Restaurant, Fast Food	1000 sq. ft.	\$7,177.00	\$9,426.00	\$13,023.00	\$16,171.00	\$17,442.00
Office/Institutional				7-2,522.00	VX0,X72.00	VX7,142.00
Office	1000 sq. ft.	\$1,891.00	\$2,430.00	\$3,291.00	\$4,045.00	\$4,632.00
Hospital	1000 sq. ft.	\$2,867.00	\$3,595.00	\$4,760.00	\$5,779.00	\$5,359.00
Nursing Home	1000 sq. ft.	\$996.00	\$1,411.00	\$2,074.00	\$2,654.00	\$3,082.00
Church	1000 sq. ft.	\$1,127.00	\$1,447.00	\$1,958.00	\$2,406.00	\$3,258.00
Elementary/Sec. School	1000 sq. ft.	\$543.00	\$704.00	\$960.00	\$1,185.00	\$1,606.00
Industrial				4500.00	V2,103.00	\$1,000.00
Manufacturing	1000 sq. ft.	\$830.00	\$1,067.00	\$1,445.00	\$1,776.00	\$2,030.00
ndustrial Park	1000 sq. ft.	\$1,513.00	\$1,944.00	\$2,634.00	\$3,237.00	\$3,636.00
Business Park	1000 sq. ft.	\$2,773.00	\$3,563.00	\$4,828.00	\$5,934.00	\$6,613.00
Warehouse	1000 sq. ft.	\$1,078.00	\$1,222.00	\$1,453.00	\$1,655.00	\$1,893.00
Mini-Warehouse	1000 sq. ft.	\$388.00	\$493.00	\$662.00	\$809.00	\$885.00

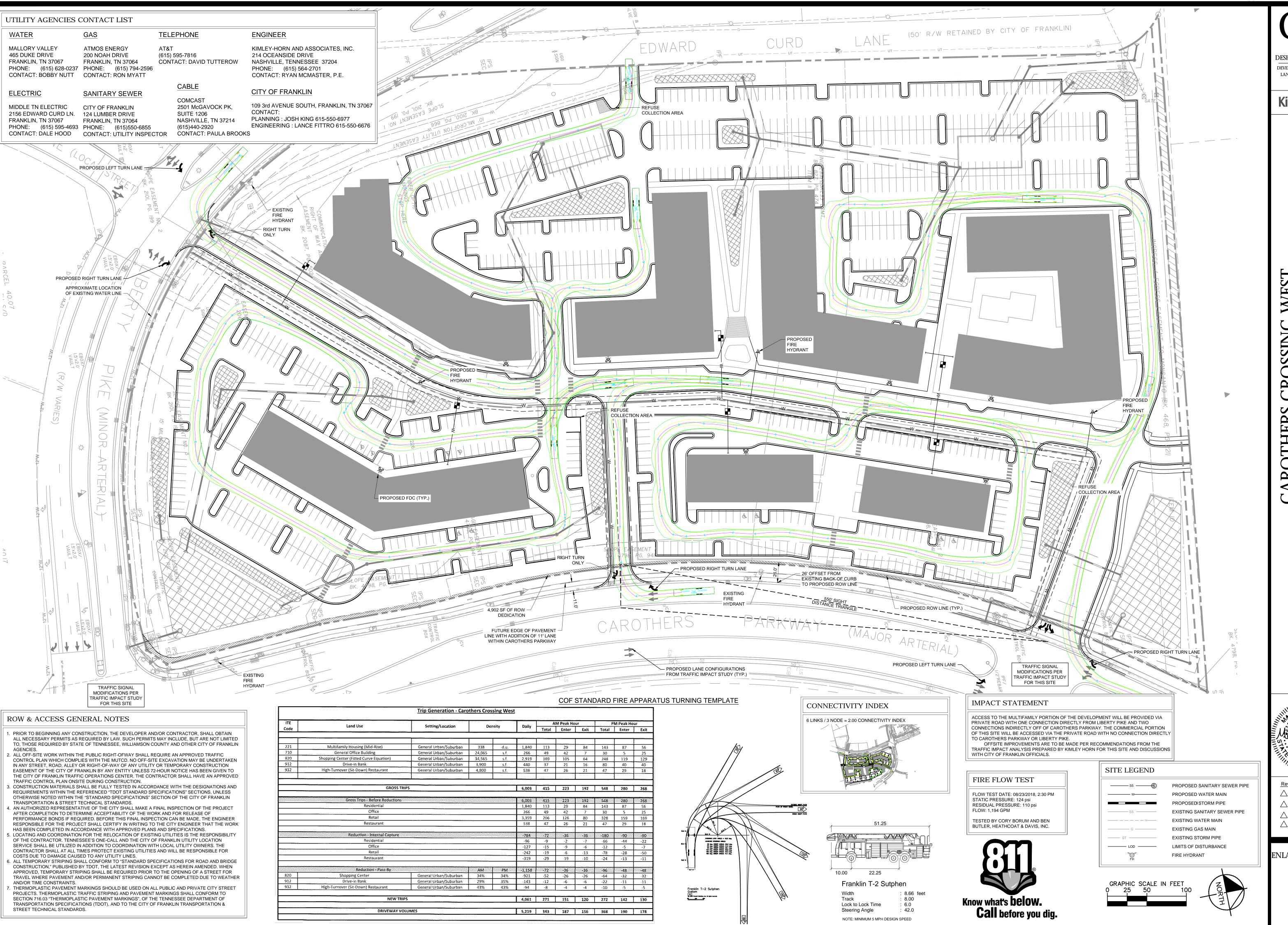
The impact fees effective July 1, 2011 are calculated at 25 percent of the increase for fees from the current fee schedule to that as indicated being needed by the November 2010 Road Impact Fee Update Study.

All Fees are taken from Appendix A - Title 12 of the City of Franklin Municipal Code.

<sup>&</sup>lt;sup>2</sup>The impact fees effective July 1, 2012, are calculated at 65 percent of increase for fees from the current fee schedule to that as indicated being needed by the November 2010 Road Impact Fee Update Study.

<sup>&</sup>lt;sup>3</sup>The impact fees effective July 1, 2013, are the impact fees needed as indicated in the November 2010 Road Impact Fee Update Study.

<sup>&</sup>lt;sup>4</sup>The impact fees effective September 1, 2014, are the impact fees needed as indicated in the March 2014 Road Impact Fee Update Study.



DESIGN COLLABORATIV DEVELOPMENT PLANNING AND LANDSCAPE ARCHITECTURE

**Kimley** » Horn

Revision Date

ENLARGED ROW AND **ACCESS** SHEET

COF # 6793