ADDENDUM NO. 1

City of Franklin, TN	Project:	Franklin ITS Extension
Engineering Department		CEI Services
109 Third Avenue South, Suite 133	TDOT PIN:	116144.00
Franklin, TN 37064	Contract No:	2024-0247
	Federal Project No:	STP-M-9305(26)
	State Project No:	94LPLM-F3-039

Date of Issuance: July 3, 2024

You are directed to make the following change(s) in the Bidding Documents:

I) Questions Received from Consultant(s) (in RED) and City Responses (in BLUE):

A) Is it acceptable for the LOI to be emailed to you, or does it need to be hand delivered to you?

Either method is acceptable. However, it is the responsibility of the consultant to ensure that the Letter of Interest (LOI) is delivered by the deadline of **2:00 PM on July 11, 2024**, as no late submissions will be considered. Also, for any hard copy LOI submittal, the City respectfully requests that an *exact* copy of the LOI submittal be provided in a digital PDF format.

Also, while the Engineering Department entrance (shared with the Planning & Sustainability Department) is Suite 133 in City Hall, we do **not** have a permanent public reception area. Therefore, any hard copy LOIs will need to be delivered to the front desk of the **Building & Neighborhood Services (BNS) Department**, which is in **Suite 110** of City Hall.

Hard copy submittals, should be submitted in a **sealed envelope**, with the following details clearly written or labeled on the envelope:

Franklin ITS Extension – CEI Services Letter of Interest (LOI) Submittal Submittal Deadline – July 11, 2024, at 2:00 PM (CDT) TDOT PIN No. 116144.00 / COF Project No. 2014-018 Federal Project No. STP-M-9305(26) State Project No. 94LPLM-F3-039 Name of Prime Consultant

It is the responsibility of the delivering party to ensure that the envelope is date and time stamped by a City of Franklin employee prior to the stated submittal deadline. **No late submissions will be considered.** **B)** If a hard copy is to be submitted, how many copies should be delivered?

If hard copies are provided, please provide at least **three (3) hard copies**, along with an *exact* digital copy of the submittal in PDF format.

C) No page limit was mentioned on the LOI. Is there a page limit?

There is **no** page limit for this Letter of Interest (LOI) submittal.

D) At this point, are project plans available?

Yes, a "draft" set of construction plans is available and is included with this addendum. However, please note that these plans are "draft" and are subject to change.

E) What type of traffic signal controllers will need database conversion with these CEI services?

The firm/team selected to perform CEI services for this project is expected to assist with the configuration and installation of multiple Advanced Transportation Controllers (ATCs), which will require traffic signal timing database conversion from **Siemens SEPAC database to Q-Free ATC XN database**.

II) Additional Instructions:

Please **acknowledge all addenda** in the cover letter for your Letter of Interest (LOI) that is submitted to the City. A simple note stating that each addendum, referenced individually by number and data of issuance, has been received and reviewed is acceptable.

III) Attachment – "Draft" Construction Plans, dated June 13, 2024 (PDF format)

END of Addendum

	Index Of Sheets	
	SEE SHEET NO. 1A	CIJ
	THIS PROJECT DOES NOT REQUIRE ANY R.O.W.	١
	AQUISITION OR EASEMENTS.	
	SR 96 W @ FIFTH AVENUE N E 1710036.1667' N 580706.1971'	
	SR 96 W @ 11TH AVENUE N E 1708015.8184' N 580155.2491'	
	NO FIELD SURVEY WAS CONDUCTED.	
uộp	COORDINATES ARE BASED OFF OF THE CITY OF FRANKLIN GIS MAPPING.	
Title Sheet.dgn		
	SPECIAL NOTES	
0GN\062620	PROPOSALS MAY BE REJECTED BY THE DIRECTOR IF ANY OF THE UNIT PRICES Contained therein are obviously unbalanced, either excessive or below The reasonable cost analysis value.	
(Volker+)\DGN\06262020\00 -	THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2021 AND ADDITIONA	L
Design	SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.	
6/13/2024 10:23:05 AM Z:\4441 - Franklin ITS	DESIGNED BY <u>GERALD BOLDEN, P.E., P.T.O.E.</u> CHECKED BY <u>SMR</u>	
/13/2024 \$\444 - Fr	P.E. NO <u>. 94LPLM-F1-038</u> PIN NO <u>. 116144.00</u>	

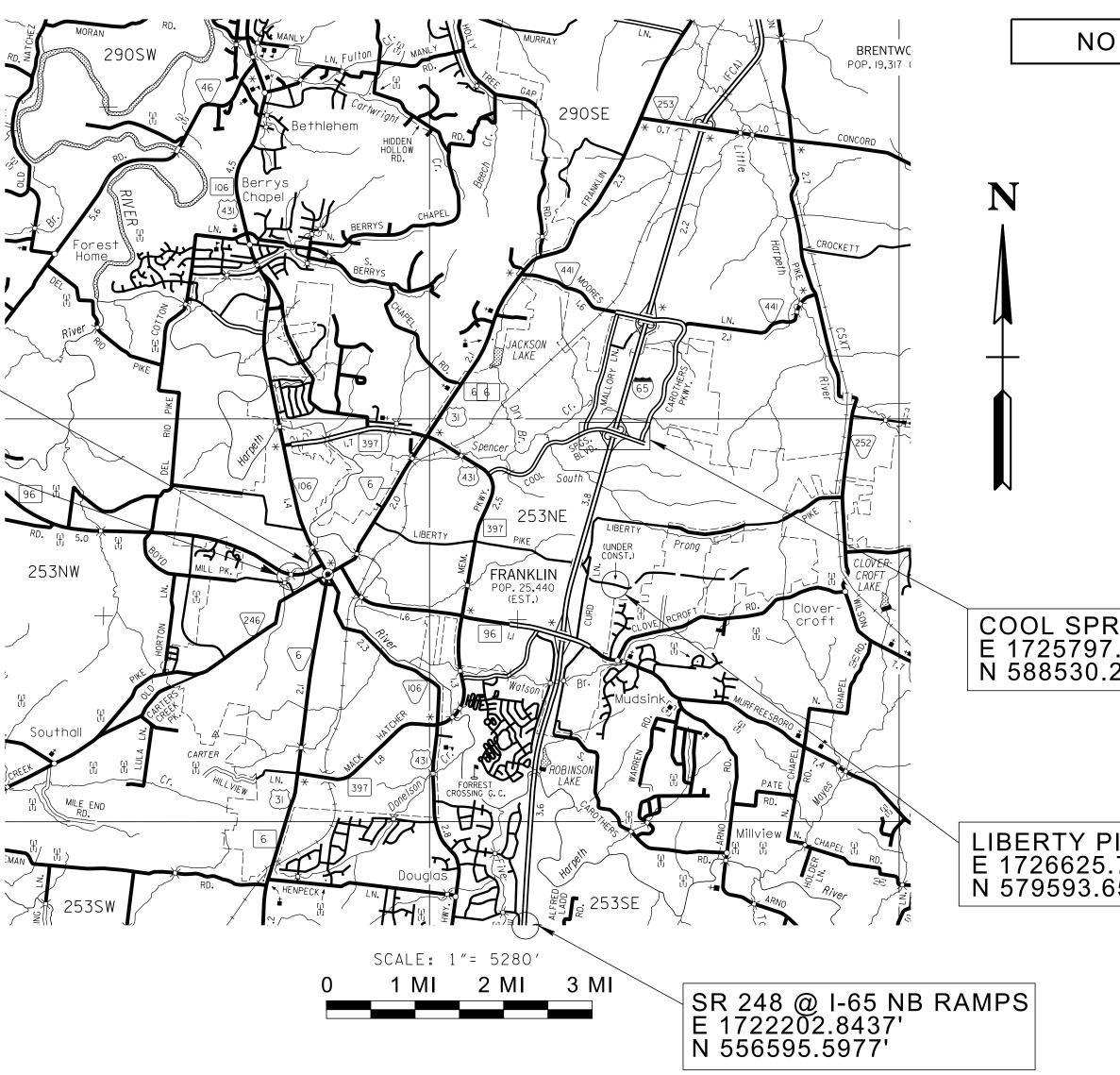
Y OF FRANKLIN, TENNESSEE

WILLIAMSON COUNTY

RIOUS CORRIDORS IN FRANKLIN - ITS INFRASTRUCTURE EXPANSION

CONSTRUCTION

STATE HIGHWAY NO. N/A F.A.H.S. NO. N/A



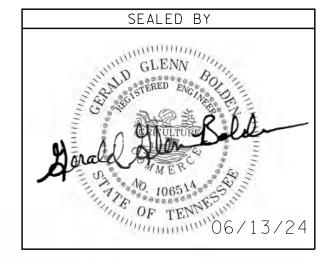
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TENN.	2024	1
FED. AID PROJ. NO.	STP-M-9305(26)	
STATE PROJ. NO.	94LPLM-F3-039	

LOCALLY LET PROJECT

LOCALLY MANAGED PROJECT

UNOFFICIAL SET NOT FOR BIDDING

NO EXCLUSIONS



COOL SPRINGS EXTENSION @ I-65 E 1725797.7372' N 588530.2739'

LIBERTY PIKE @ CAROTHERS PKWY E 1726625.7245' N 579593.6554'

APPROVED:

13, 2024 DATE

PAUL HOLZEN, P.E. Director / City Engineer

INDEX OF SHEETS

TITLE SHEET1
INDEX OF SHEETS AND STANDARD DRAWINGS
ESTIMATED QUANTITIES2
ESTIMATED QUANTITIES BY SHEET
GENERAL NOTES
SPECIAL NOTES & UTILITY NOTES
ENVIRONMENTAL NOTES
EPSC NOTES
CITY OF FRANKLIN GENERAL NOTES
PRESENT LAYOUTS
PROPOSED LAYOUTS

STANDARD ROADWAY DRAWINGS

DWG. NO. REV.

DESCRIPTION

	STANDARD ROADWAY	TITLE SHEET, ABBREVIATIONS, AND LEGENDS.
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	02-20-20	STANDARD LEGEND
RD-L-1A		STANDARD LEGEND
RD-L-2	02-20-20	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	03-01-23	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTI
RD-L-4	02-20-20	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTI

SAFETY DESIGN AND GUARDRAILS

S-CZ-1 06-28-19 CLEAR ZONE CRITERIA

DESIGN - TRAFFIC CONTROL

T – W Z – 4 O	03-05-17	RIGHT LANE CLOSURES AT NEAR SIDE OF INTERSEC
T-WZ-50	04-02-12	TRAFFIC CONTROL FOR SIGNALS ONLY PROJECTS ON
T-WZ-51	04-02-12	TRAFFIC CONTROL FOR SIGNALS ONLY PROJECTS ON
T-WZ-52	04-02-12	TRAFFIC CONTROL FOR SIGNALS ONLY PROJECTS ON
T-WZ-53	04-02-12	TRAFFIC CONTROL FOR SIGNALS ONLY PROJECTS ON
T-WZ-55	10-29-21	SIDEWALK TRAFFIC CONTROL
T-WZ-FAB1		FLASHING YELLOW ARROW BOARD

EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-37 06-10-14 SEDIMENT TUBE

STANDARD TRAFFIC OPERATIONS DRAWINGS

DWG.NO. REV. DESCRIPTION

LIGHTING AND UTILITY POLES

FIBER	OPTIC	AERIAL ENTRANCE DETAILS
		UNDERGROUND ENTRANCE DETAILS
		AFRIAL CONNECTION DETAILS
		PULL BOX, CABINET, & POLE DETA
T I DEN	01 110	TOLL DON, CADINEL, A TOLL DETA

SIGNALS

T-FO-1 T-F0-2 T-F0-3 T – F O – 4

T-SG-2	06-27-16	LOOP LEAD-INS, CONDUIT AND PULL BOXES
T-SG-3A	06-27-16	ALTERNATE DETECTION DETAILS
T-SG-5	06-27-16	CONTROLLER CABINET DETAILS
T-SG-8	06-27-16	STRAIN POLE DETAILS FOR SPAN MOUNTED SIGNALS
T-SG-10	09-12-23	MAST ARM POLE AND STRAIN POLES FOUNDATION DE
T-SG-12	12-20-19	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTIO

COF STANDARD DRAWINGS

DWG. NO.	REV.	DESCRIPTION
I T S - 1	07-01-21	CITY OF FRANKLIN FIBER OPTIC EMBLEM
I T S - 2	07-01-21	Conduit trench backfill

UTILITY OWNERS

ATMOS ENERGY CORPORATION ATTN: RYAN BATES SR. ENGINEER PHONE: (615) 771-8311 EMAIL: RYAN.BATES@ATMOSENERGY.COM

CITY OF FRANKLIN FIBER OPTIC ATTN: MIKE PROCTOR COMMUNICATIONS SYSTEMS MANAGER PHONE: (615) 550-6604 EMAIL: MIKEP@FRANKLINTN.GOV

CROWN CASTLE ATTN: TERRY CAMPBELL CONSTRUCTION MANAGER SCFS PHONE: (615) 708-9610 EMAIL: TERRY.CAMPBELL.VENDOR@CROWNCASTLE.COM

FRANKLIN WATER MANAGEMENT (SANITARY SEWER) ATTN: MICHELLE HATCHER DIRECTOR PHONE: (615) 794-4554 EMAIL: MICHELLE.HATCHER@FRANKLINTN.GOV

ATT ASS PHO	LOR` N: H IST/ NE: IL:	ARI ANT (6
MEM	DLE BERS N: [SHI

DEVELOPMENT PHONE: (615 EMAIL: ERIK

MILCROFTON ATTN: MIKE GENERAL MAN PHONE: (615 EMAIL: MIKE

PIEDMONT NA ATTN: JENNI DISTRIBUTIO PHONE: (615 EMAIL: JENN

TING TING

SECTIONS ON 2 OR 3 LANE MAJOR ROUTES ON 4 OR 5 LANE MAJOR ROUTES

ON 4 OR 5 LANE MAJOR AND MINOR ROUTES ON 4 OR MORE LANE DIVIDED MAJOR ROUTES

TAILS

AL S DETAILS TION LOOPS

	LEGEND
SYMBOL	DESCRIPTION
	EXISTING PULL BOX
	EXISTING CABINET
	EXISTING POLE
	PROPOSED POLE
•	PROPOSED CCTV CAMER

VALLEY UTILITY DISTRICT (MVUD AREN YORK NT GENERAL MANAGER (615) 628-0237 (YORK@MVUD.ORG TENNESSEE ELECTRIC HIP CORPORATION (MTEMC) RIK HALE WENT ENGINEER (615) 595-4669 ERIK.HALE@MTEMC.COM TON UTILITY DISTRICT IKE JONES MANAGER (615) 791-5947 WIKE@MILCROFTON.COM T NATURAL GAS ENNI SHIPMAN JTION PROJECT SPECIALIST (615) 872-2353 JENNI.SHIPMAN@DUKE-ENERGY.COM		REVISIONS NO DATE BY DESCRIPTION 1 10/1/23 GGB UPDATED STD. DWGS. DATES 1 10/1/23 GGB UPDATED STD. DWGS. DATES
		INDEX OF SHEETS AND STANDARD DRAWINGS FRANKLIN ITS DESIGN FRANKLIN, TENNESSEE
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	ITEM NO.
	209-05
	712-01
	712-06
	717-01
	725-02.79
2	725-03.80
	725-20.01
	725-20.03
5	725-21.32
4	725-23.12
	725-24.55
	730-03.23
	730-12.03
	730-12.24
3	730-13.15
6	730-15.11
1	730-16.04
	740-11.02
1	FOOTNOTES
	1

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3

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5

6

ESTIMATED ROADWAY QUANTIT	IES	-
DESCRIPTION	UNIT	QUANTITY
SEDIMENT REMOVAL	CY	25
TRAFFIC CONTROL	LS	1
SIGNS (CONSTRUCTION)	S.F.	178
MOBILIZATION	LS	1
FIBER SPLICE ENCLOSURE (48F)	EACH	2
CCTV CAMERA SYSTEM	EACH	5
CCTV POLE & FOUNDATION (50FT POLE W/LWRNG DEVICE)	EACH	2
LOWERING TOOL FOR CAMERA LOWERING DEVICE	EACH	1
CAT 6 CABLE	L.F.	1000
FIBER OPTIC CABLE (48 F)	L.F.	5000
AS-BUILT PLANS	LS	1
INSTALL PULL BOX (FIBER OPTIC-TYPE A)	EACH	9
CONDUIT 3" DIAMETER (PVC SCHEDULE 40)	L.F.	1500
CONDUIT 3" DIAMETER (DIRECTIONAL BORE)	L.F.	700
VEHICLE DETECTOR (TWO 360-DEGREE CAMERA)	EACH	1
MODIFY CABINET (FO COMMUNICATIONS AND DETAILS)	EACH	7
CONTROLLER (ATC)	EACH	75
TEMPORARY SEDIMENT TUBE 12IN	L.F.	160

PAY ITEM 730-16.04 CONTROLLER (ATC) IS A FURNISH ONLY ITEM TO BE DELIVERED TO THE CITY TRAFFIC OPERATIONS CENTER (TOC). THE CONTROLLER (ATC) IS SPECIFIED IN THE CITY OF FRANKLIN 730FR SPECIFICATION. THE CONTRACTOR IS NOT RESPONSIBLE FOR INSTALLATION. THE CITY OF FRANKLIN WILL CONFIGURE AND INSTALL THE ATC CONTROLLERS.

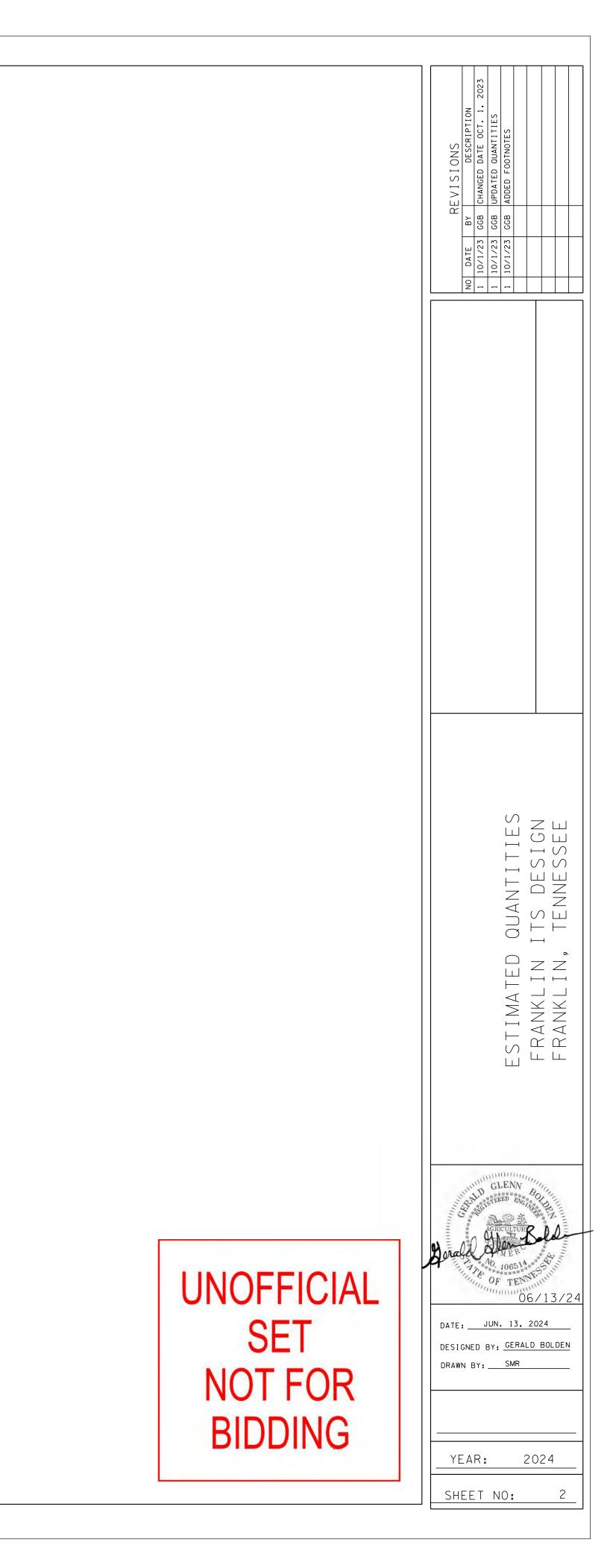
INCLUDES SURGE PROTECTION(POE) DEVICE AND POE EXTENDER UNIT. ITEM ALSO INCLUDES 12 FOOT EXTENSION ARM FOR THREE LOCATIONS AS SHOWN ON PLANS.

ITEM TO INCLUDE CABLE, EQUIPMENT, AND ALL MATERIAL NECESSARY TO INSTALL A COMPLETE AND OPERATIONAL SYSTEM.

TO BE SINGLE-MODE FIBER-OPTIC CABLE.

TO BE CAT 6 POWER-OVER-ETHERNET CABLE (OUTDOOR RATED).

TO INCLUDE RUNNING COMMUNICATIONS AND INSTALLING ETHERNET CABLE FOR CCTV CAMERA AND 360 DEGREE CAMERA.



ITEM NO.	DESCRIPTION	UNIT	3A	4A	5A	6A	7A	7B	8A	PROJECT TOTAL
725-02.79	FIBER SPLICE ENCLOSURE (48F)	EACH						1	1	2
725-20.01	CCTV POLE & FOUNDATION (50FT POLE W/LWRNG DEVICE)	EACH	1			1				2
725-03.80	CCTV CAMERA SYSTEM	EACH	1	1	1	1		1		5
725-21.32	CAT 6 CABLE	L.F.	215	100	265	150		270	· · · · · · · · · · · · · · · · · · ·	1000
725-23.12	FIBER OPTIC CABLE (48 F)	L.F.					1790	640	2570	5000
730-03.23	INSTALL PULL BOX (FIBER OPTIC-TYPE A)	EACH			2	2	4		3	9
730-12.03	CONDUIT 3" DIAMETER (PVC SCHEDULE 40)	L.F.	80		30	50	730		610	1500
730-12.24	CONDUIT 3" DIAMETER (DIRECTIONAL BORE)	L.F.			220		360		120	700
730-13.15	VEHICLE DETECTOR (TWO 360-DEGREE CAMERA)	EACH						1		1
730-15.11	MODIFY CABINET (FO COMMUNICATIONS AND DETAILS)	EACH	1	1	1	1	1	1	1	7

FOOTNOTES:

1

CABLE (L.F.) = CABLE RUN + CABLE COIL

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QUANTITIES BY SHEET LIN ITS DESIGN LIN, TENNESSEE
E S T I MA TED F RANK F RANK
DATE: JUN. 13, 2024 DESIGNED BY: <u>GERALD BOLDEN</u> DRAWN BY: <u>SMR</u>
YEAR: 2024 Sheet No: 2A



GENERAL NOTES

GRADING

- (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.
- (2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.
- (3) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) WITHOUT APPROVAL BY FEMA. 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.

MISCELLANEOUS

- (8) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES AND POSTS WHERE AND AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR OTHER CONSTRUCTION ITEMS.
- (9) 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 AREA.

SIGNALIZATION AND ITS DEVICES

(10) EQUIPMENT AND INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS, SECTION 730 AND CITY OF FRANKLIN STANDARD SPECIFICATIONS, SECTION 730FR.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- (11) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.
- (12) 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.
- (13) 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 COVERED.
- (14) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- (15) USE OF BARRICADES, PORTABLE BARRIER RAILS, 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 FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. 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 REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(16) 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 FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. 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 FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK. THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

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AL NOTES ITS DESIGN TENNESSEE						
GENERA FRANKLIN						
DATE: JUN. 13, 2024 DESIGNED BY: <u>GERALD BOLDEN</u> DRAWN BY: <u>SMR</u>						
YEAR: 2024 SHEET NO: 2B						

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BIDDING

SPECIAL NOTES

SIGNALIZATION

(1) THE DESIGN OF TRAFFIC SIGNAL SUPPORT POLES, MAST ARMS, STRAIN POLES, ETC. SHALL BE IN CONFORMANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, CURRENT EDITION. OVERHEAD CANTILEVERED TRAFFIC SIGNAL STRUCTURES SHALL BE DESIGNED FOR FATIGUE CATEGORY 1.

UTILITY NOTES

- (2) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. ABOVE GRADE AND UNDERGROUND UTILITIES SHOWN WERE TAKEN FROM VISIBLE APPURTENANCES AT THE SITE, PUBLIC RECORDS, AND/OR MAPS PREPARED BY OTHERS. THEREFORE, RELIANCE UPON THE TYPE, SIZE, AND LOCATION OF UTILITIES SHOWN SHOULD BE DONE SO WITH THIS CIRCUMSTANCE CONSIDERED. DETAILED VERIFICATION OF EXISTENCE, LOCATION, AND DEPTH SHOULD ALSO BE MADE PRIOR TO ANY DECISION RELATIVE THERETO IS MADE. AVAILABILITY AND COST OF SERVICE SHOULD BE CONFIRMED WITH THE APPROPRIATE UTILITY COMPANY. IN TENNESSEE, IT IS A REQUIREMENT, PER "THE UNDERGROUND UTILITY DAMAGE PREVENTION ACT", THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNERS, NO LESS THAN THREE (3) OR NOT MORE THAN TEN (10) WORKING DAYS PRIOR TO THE DATE OF THEIR INTENT TO EXCAVATE AND ALSO TO AVOID ANY POSSIBLE HAZARD OR CONFLICT. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED
- (3) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR ITS REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.
- (4) 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.
- (5) 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.
- (6) 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. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC AT 1-800-351-1111 WILL BE REQUIRED.

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NOTES & UTILITY NOTE Anklin its design Anklin, tennessee							
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DATE: JUN. 13, 2024 DESIGNED BY: <u>GERALD BOLDEN</u> DRAWN BY: <u>SMR</u>							
YEAR: 2024 Sheet No: 2C							

UNOFFICIAL SET NOT FOR BIDDING

ENVIRONMENTAL NOTES

ENVIRONMENTAL GENERAL NOTES

NATURAL RESOURCES

(1)	SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT NATURAL RESOURCES AND WATER QUALITY SHALL BE MAINTAINED THROUGHOUT THE	(10
	CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG NATURAL RESOURCES IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS, WETLANDS OR OTHER NATURAL FEATURES IN ACCORDANCE WITH TDOT STANDARDS. EPSC MEASURES SHALL BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.	(1
(2)	NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL.	(12
(3)	INSTREAM EPSC DEVICES REQUIRE A REVIEW BY THE CITY ENGINEER TO DETERMINE IF WATER QUALITY PERMITS SHOULD BE OBTAINED.	
(4)	THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS, IS NOT ALLOWED.	PE
(5)	THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING, NOT TO EXCEED THE WIDTH SPECIFIED IN THE STANDARD DRAWING.	(13
(6)	STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CULVERT CROSSINGS SHALL BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES SHALL BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK SHALL BE USED AT THE CROSSING POINT AND CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, WHICH CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS. OTHER MATERIALS USED FOR ALL TEMPORARY FILLS SHALL BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO PREEXISTING ELEVATIONS. ALL TEMPORARY CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG.	(14 (14
	EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (E.G. BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.) FROM TOP OF BANK TO TOP OF BANK OR THE APPROPRIATE USE OF BARGES AT THE CROSSING TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.	(16
(7)	HEAVY EQUIPMENT WORKING IN WETLANDS WITH PERMITTED TEMPORARY IMPACTS SHALL BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE AND COMPACTION UNLESS SPECIFICALLY ADDRESSED IN THE CONSTRUCTION PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT SHALL BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED. ALL AFFECTED AREAS SHOULD BE RETURNED TO PRE-EXISTING CONDITIONS.	(17
(8)	WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION PLANS AND PERMITS.	
(9)	THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS PRIOR TO ANY CONSTRUCTION AND MAINTENANCE ACTIVITIES TO ENSURE THAT ENVIRONMENTAL FEATURES (E.G., STREAMS, WETLANDS, SPRINGS, ETC.) ARE NOT IMPACTED BEYOND PERMITTED LOCATIONS. IF THE CONTRACTOR OR PROJECT INSPECTOR IS UNSURE OF THE IDENTITY OF AN ENVIRONMENTAL FEATURE, THE INSPECTOR SHALL CONTACT THE CITY ENGINEER IMMEDIATELY.	SI (18

SPECIES

- 0) NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY. INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA
- SHOULD CLIFF SWALLOW OR BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG AND ADULTS) BE PRESENT, THE CONTRACTOR SHALL CONTACT THE LOCAL U.S. FISH & WILDLIFE SERVICE OFFICE TO DETERMINE IF SEASONAL RESTRICTIONS WILL BE NECESSARY. GENERALLY, BIRDS, NESTS, AND EGGS MAY NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS CAN BE REMOVED OR DESTROYED SO LONG AS BIRDS OR EGGS ARE NOT PRESENT, AND MEASURES IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (I.E., CLOSING OFF AREA USING NETTING).
- 2) IF THE REMOVAL OF ANY TREES WITH A DIAMETER AT BREAST HEIGHT (DBH) GREATER THAN 3 INCHES IS DEEMED NECESSARY THE ENGINEER SHALL CONTACT THE LOCAL U.S. FISH & WILDLIFE SERVICE OFFICE IMMEDIATELY.

ERMITS, PLANS & RECORDS

- 3) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO ARCHAEOLOGY, ECOLOGY, HISTORICAL, HAZARDOUS MATERIALS, AIR AND NOISE, TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING ANY MATERIAL AND STAGING AREAS AND THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS TO BE USED. ANY SUCH PERMITS SHALL BE SUPPLIED TO THE ENGINEER PRIOR TO THE USE OF THE PERMITTED AREA(S).
- ANY DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CITY ENGINEER SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED IN GENERAL. PERMIT CONDITIONS WILL PREVAIL.
- 5) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE CITY ENGINEER SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS ARE NEEDED. THE ENGINEER SHALL BE CONTACTED TO DETERMINE IF ANY PLAN **REVISIONS ARE NEEDED**
- 6) THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATE. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES THE CONTRACTOR SHALL CONTACT THE CITY ENGINEER TO COMMENCE PERMIT RENEWAL PROCESS.
- 7) ALL WATER QUALITY PERMITS SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BRIEF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

UPPORT ACTIVITIES

8) MATERIALS AND STAGING AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY ENVIRONMENTAL PERMITS, OBTAINED SOLELY BY THE CONTRACTOR. THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATES. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE CITY ENGINEER TO COMMENCE PERMIT RENEWAL PROCESS.

ENVIRONMENTAL

ENVIRONMENTAL

MEETINGS.

ECOLOGY

- (2)
- THAT MUST BE FOLLOWED
- (4)

SCOPE OF WORK

THIS PROJECT INCLUDES: (6)

(19) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING. GRUBBING. EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL. **ENVIRONMENTAL SPECIAL NOTES** (1) THE CITY ENGINEER SHALL BE INVITED TO ALL PRE-CONSTRUCTION THE CITY ENGINEER OR A DESIGNEE SHALL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING WHEN THE CITY ENGINEER OR A DESIGNATED CONSULTANT WILL NEED TO BE ONSITE FOR WORK BEING DONE WHICH COULD AFFECT WATERS OF THE STATE/U.S. OR SPECIES. THE CITY ENGINEER OR A DESIGNEE SHALL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECTS WHICH HAVE THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT PROXIMAL TO SCHEDULED WORK. THIS WILL PROVIDE THE OPPORTUNITY TO ENSURE THAT PERSONNEL INCLUDING THE CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE MADE AWARE OF THE NECESSARY PRECAUTIONS ALL PROJECTS WITH LEGALLY PROTECTED SPECIES OR CRITICAL HABITAT IDENTIFIED SHALL HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER WATERS OF THE STATE/U.S. ШNN \vdash \vdash \bigcirc \circ N U N N D INSTALLATION OF NEW ITS DEVICES AND FIBER OPTIC CABLE ALONG COOL A L F N SPRINGS BOULEVARD @ I-65, LIBERTY PIKE @ CAROTHERS PKWY, SR 96W @ 5TH AVENUE N., SR 96W @ 11TH AVENUE N, AND SR 248 @ I-65 NB RAMPS, \vdash \vdash \vdash VIRONMENT Anklin I⁻ Anklin, I AND NEW TRAFFIC SIGNAL DEVICES AT THE INTERSECTION OF COOL SPRINGS BOULEVARD @ MALLORY LANE. $> \triangleleft \triangleleft$ Z K K GLENN 1) Hen Belde gerald UNOFFICIAL 06/13/24 DATE: ____JUN. 13, 2024 SET DESIGNED BY: GERALD BOLDEN DRAWN BY: SMR NOT FOR BIDDING YEAR: 2024 SHEET NO: 2D

EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES

DISTURBED AREA

- (1) IF DISTURBED ACREAGE IS EQUAL TO ONE ACRE OR MORE, PLEASE CONTACT THE CITY ENGINEER AS SOON AS POSSIBLE BECAUSE AN NPDES PERMIT WILL BE REQUIRED.
- AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD **BEFORE CONSTRUCTION ACTIVITIES BEGIN**
- UNLESS OTHERWISE NOTED IN THE PLANS, THE CONTRACTOR SHALL NOT (3) CLEAR/DISTURB ANY AREA BEYOND 15 FEET FROM SLOPE LINES.
- PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE (4)DESTROYED, REMOVED OR DISTURBED (I.E. CLEARING AND GRUBBING INITIATED) MORE THAN 14 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS MULCHED, SEEDED WITH MULCH, OR OTHER TEMPORARY COVER IS APPLIED.
- (5) CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION, INCLUDING STREAM AND WETLAND BUFFERS (UNLESS PERMITTED). SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.

SEDIMENT CONTROL

- EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY (6) EARTH MOVING OPERATIONS AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.
- TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF (7)THE WORKDAY BUT MUST BE REINSTALLED AT THE END OF THE WORKDAY OR BEFORE/DURING A PRECIPITATION EVENT.
- THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE (8) METHOD TO PREVENT THE OFFSITE MIGRATION OR DEPOSIT OF SEDIMENT OFF THE PROJECT LIMITS (E.G. R.O.W., EASEMENTS, ETC.), INTO WATERS OF THE STATE/U.S., OR ONTO ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE. OFFSITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE NEGOTIATED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT.
- OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF (9) DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION EXIT (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.
- (10) THE DEWATERING OF WORK AREAS, TRENCHES, FOUNDATIONS, EXCAVATIONS, ETC. THAT HAVE COLLECTED STORMWATER, WATER FROM VEHICLE WASH AREAS, OR GROUNDWATER SHALL BE EITHER HELD IN SETTLING BASINS OR TREATED BY FILTRATION AND/OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED IN THE EPSC PLANS. WATER DISCHARGED SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE TOP BANK OF A STREAM. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL-VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT, DISCHARGES FROM BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. DISCHARGES MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITH THE RECEIVING STREAM.

INSPECTION, MAINTENANCE & REPAIR

- (12) THE ENGINEER (OR THEIR DESIGNEE) AND THE CONTRACTOR'S RESPONSIBLE PARTY ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER OR THEIR DESIGNEE SHALL COMPLETE THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.
- (13) CONSULTANTS AND CONTRACTOR STAFF RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE, AND/OR REPAIR OF EPSC MEASURES SHALL SUCCESSFULLY COMPLETE THE TDEC "LEVEL 1 -FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY REFRESHER COURSES AS REQUIRED TO MAINTAIN CERTIFICATION. STAFF AND SUPERVISORS RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE. AND/OR REPAIR OF EPSC MEASURES SHALL SUCCESSFULLY COMPLETE THE "FUNDAMENTALS OF EROSION AND SEDIMENT CONTROL" CLASS AND ANY REFRESHER COURSES AS REQUIRED TO MAINTAIN CERTIFICATION
- (14) EPSC CONTROLS SHALL BE INSPECTED ACCORDING TO PERMIT REQUIREMENTS TO VERIFY MEASURES HAVE BEEN INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS. SPECIFICATIONS, AND GOOD ENGINEERING PRACTICES. EPSC INSPECTIONS SHALL BE DOCUMENTED ON THE EPSC INSPECTION REPORT.
- (15) DISCHARGE POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE ROADWAY SEDIMENT TRACKING.
- (16) UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT. IF POSSIBLE, BUT IN NO CASE MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE 24 HOUR TIMEFRAME, WRITTEN DOCUMENTATION SHALL BE PROVIDED IN THE FIELD DIARY AND EPSC INSPECTION REPORT. AN ESTIMATED REPAIR. REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION.
- (17) INSPECTION, REPAIR, AND MAINTENANCE OF EPSC MEASURES SHALL BE PERFORMED ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%), DURING SEDIMENT REMOVAL. THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE EPSC MEASURES AT THE CONTRACTOR'S OWN EXPENSE.
- (18) THE EPSC PLAN SHALL BE UPDATED WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY.
- (19) SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS AND DOES NOT MIGRATE ONTO ADJACENT PROPERTIES AND INTO WATERS OF THE STATE/U.S. COST FOR THIS TREATMENT SHALL BE INCLUDED IN PRICE BID FOR ITEM NO. 209-05 SEDIMENT REMOVAL, C.Y.

EROSION PREVENTION

- (20) CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION.
- (21) THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EPSC MEASURES BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CULVERT OR BRIDGE CONSTRUCTION, CUTTING, FILLING, OR ANY OTHER EARTHWORK OCCURS. EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.

- DEVICES ON THE EPSC PLAN.
- CONSTRUCTION.
- HEIGHT.
- MEASURES ON ALL PROJECTS.
- (26)STABILIZATION.
- OR DRY MONTHS SHOULD BE AVOIDED

PERMITS. PLANS & RECORDS

OF THE CONSTRUCTION PROJECT.

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

- SHALL BE REMOVED FROM THE SITE.
- AREAS SHALL BE USED.
- REGULATIONS.

NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE CITY ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE BASIC EPSC

TEMPORARY STABILIZATION SHALL BE INITIATED WITHIN 14 CALENDAR DAYS WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT **RESUME UNTIL AFTER 14 CALENDAR DAYS. PERMANENT STABILIZATION** MEASURES IN DISTURBED AREAS SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OF ANY PHASE OF

(24) STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF

PERMANENT STABILIZATION WILL REPLACE TEMPORARY MEASURES AS SOON AS PRACTICABLE, PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC

TEMPORARY OR PERMANENT STABILIZATION MUST BE FREE OF FINES (SILT AND CLAY SIZED PARTICLES). UNPACKED GRAVEL CONTAINING FINES OR CRUSHER-RUN WILL NOT BE CONSIDERED SUFFICIENT

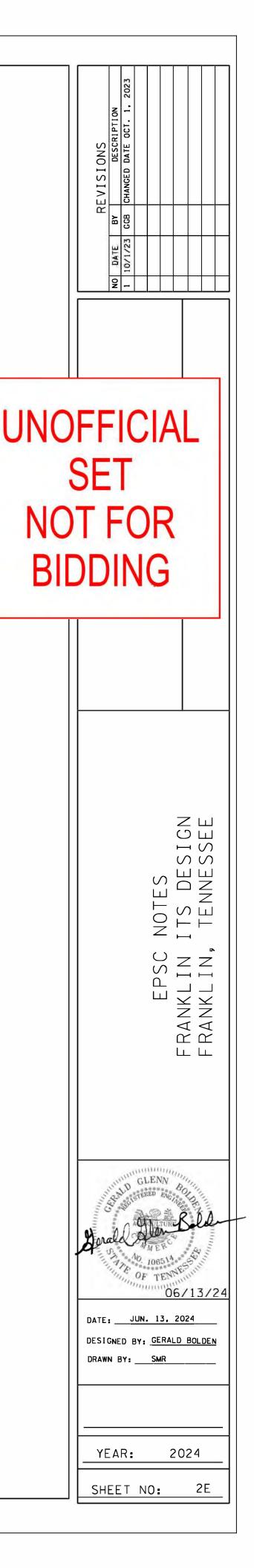
(27) DELAYING THE PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS

(28) THE EPSC PLAN IS TO SERVE AS AN INITIAL GUIDE FOR SITE PERSONNEL AS THE CONSTRUCTION PROCESS DEVELOPS. IT MUST BE AMENDED. MODIFIED, AND UPDATED WHENEVER A CHANGE IN THE DESIGN OR CONSTRUCTION OF THE PROJECT OCCURS. THE STAGES DEPICTED IN THE EPSC PLANS MAY NOT COINCIDE WITH THE ACTUAL PHASES OF CONSTRUCTION ESTABLISHED BY THE CONTRACTOR DURING CONSTRUCTION, THUS MODIFICATIONS WILL BE REQUIRED TO ENSURE THE EPSC PLAN IS MAINTAINED TO DEPICT CURRENT SITE CONDITIONS. IT SHOULD BE MAINTAINED SUCH THAT IT WILL ALWAYS REFLECT THE MEASURES THAT ARE INSTALLED DURING THE VARIOUS PHASES OF CONSTRUCTION. IT IS IMPRACTICAL TO DETERMINE ALL THE INTERMEDIATE PHASES OF CONSTRUCTION THAT WILL OCCUR; THUS THESE DOCUMENTS WILL HAVE TO BE UPDATED THROUGHOUT THE LIFE

(29) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS SHALL BE REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFFSITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EPSC

(30) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION. APPROPRIATE CONTAINMENT MEASURES FOR THESE

(31) CONTRACTORS SHALL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED, NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS SHALL NOT BE PERMITTED ONSITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL



EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES (CONT'D)

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

- (32) WHEEL WASH WATER SHALL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER SHALL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM.
- (33) IF PORTABLE SANITARY FACILITIES ARE PROVIDED ON CONSTRUCTION SITES, SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY REGULATIONS. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.
- (34) ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ONSITE BY THE CONTRACTOR. THE CONTRACTOR SHALL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR'S RESPONSIBLE PARTY SHALL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL.
- (35) WHEN POSSIBLE, ALL PRODUCTS SHALL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFFSITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS SHALL BE FOLLOWED.
- (36) ALL PAINT CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL BE DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.
- (37) ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.
- (38) OPEN BURNING IS PROHIBITED UNLESS IT IS SPECIFICALLY ALLOWED BY LAW. IF ALLOWED, NATURAL VEGETATION, TREES, AND UNTREATED LUMBER SHALL BE THE ONLY MATERIALS THAT CAN BE OPEN BURNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE STATE AND LOCAL PERMITS PRIOR TO ANY BURNING.
- (39) DISPOSAL OF ONSITE VEGETATION AND TREES BY CHIPPING THEM INTO MULCH IS PREFERABLE TO OPEN BURNING. THIS MULCH MAY BE USED AS AN ONSITE SOIL STABILIZATION MEASURE WHERE APPROPRIATE.
- (40) WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S), CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.

SUPPORT ACTIVITIES

- (41) IF OFFSITE BORROW AND WASTE AREAS BECOME NECESSARY DURING THE LIFE OF THE PROJECT, THIS SUPPORT ACTIVITY SHALL BE ADDRESSED PER THE TDOT WASTE AND BORROW MANUAL.
- (42) MATERIALS AND STAGING AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN.
- (43) IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY EPSC PLANS FOR THE MATERIAL AND STAGING AREAS TO THE CITY ENGINEER FOR REVIEW.

SPILL PREVENTION, MANAGEMENT & NOTIFICATION

- (44) ALL ONSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE **REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF** LEAKAGE AND SPILLS.
- (45) FOR ALL HAZARDOUS MATERIALS STORED ONSITE, THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP SHALL BE CLEARLY POSTED. SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.
- (46) APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT SHALL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ONSITE AND UNDER COVER. SPILL RESPONSE EQUIPMENT SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR AS NECESSARY TO REPLACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.
- (47) ALL SPILLS SHALL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- (48) THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING. SPILL MANAGEMENT, AND CLEANUP.
- (49) IF AN OIL SHEEN IS OBSERVED ON SURFACE WATER (E.G. SETTLING PONDS, DETENTION PONDS, SWALES), ACTION SHALL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR SHALL USE APPROPRIATE MATERIALS TO CONTAIN AND ABSORB THE SPILL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE IDENTIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT FURTHER RELEASES.
- (50) FERTILIZERS SHALL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED. ONCE APPLIED, FERTILIZERS SHALL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER.
- (51) IF A SPILL OCCURS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE CITY OF FRANKLIN, ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY. AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.
- (52) WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD. SEE THE LATEST TENNESSEE GENERAL PERMIT NO. **TNR100000 STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES** SECTION 5.1 FOR REPORTING REQUIREMENTS.
- (53) CONTRACTOR'S BULK FUEL AND PETROLEUM PRODUCTS STORED ONSITE OR ADJACENT TO THE R.O.W. IN ABOVE GROUND STORAGE CONTAINERS WITH A COMBINED CAPACITY OF 1320 GALLONS OR MORE SHALL HAVE SECONDARY CONTAINMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN FOR THE BULK STORAGE AND BE SOLELY RESPONSIBLE FOR OBTAINING ANY NECESSARY LOCAL, STATE, AND FEDERAL PERMITS. THE SPCC PLAN AND/OR PERMITS SHALL BE KEPT ONSITE AND A COPY PROVIDED TO THE CITY ENGINEER PRIOR TO STORING 1320 GALLONS ON SITE.

EROSION PREVENTION AND SEDIMENT CONTROL SPECIAL NOTES

STREAMS, WETLANDS & BUFFER ZONES

- (1)FEET AT ANY MEASURED LOCATION.
- (2)ZONES.
- (3)

FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, A 60 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM WITH THIS DESIGNATION SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 60 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT. AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 30

A 30 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE, THE 30 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER

BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND MUST NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY BE USED. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.



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CITY OF FRANKLIN GENERAL NOTES FOR TRAFFIC SIGNAL CONSTRUCTION

WORKMANSHIP:

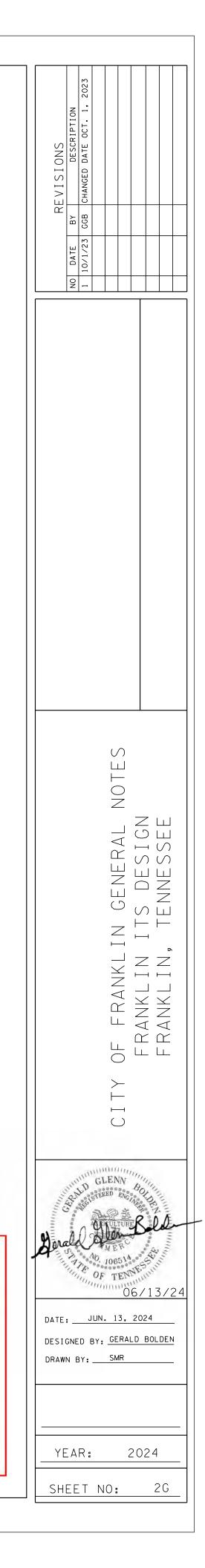
- (1) ALL CONSTRUCTION, EQUIPMENT AND INSTALLATION PROCEDURES SHALL COMPLY WITH CURRENT T.D.O.T. AND CITY OF FRANKLIN STANDARDS AND SPECIFICATIONS. WHERE APPLICABLE
- (2) ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CURRENT T.D.O.T. AND CITY OF FRANKLIN STANDARDS AND SPECIFICATIONS. WHERE APPLICABLE.
- (3) ALL TRAFFIC SIGNAL, SIGN, PAVEMENT MARKINGS AND TEMPORARY TRAFFIC CONTROL APPARATUS INSTALLATION, MAINTENANCE PROCEDURES, AND EQUIPMENT SHALL MEET THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.)
- ALL TRAFFIC CONTROL DURING THROUGHOUT THE PROJECT SHALL BE IN STRICT (4) ACCORDANCE WITH THE CURRENT EDITION OF THE M.U.T.C.D. AND IS SUBJECT TO REVIEW AND APPROVAL BY THE CITY OF FRANKLIN'S ENGINEERING DEPARTMENT.
- (5) THE CONTRACTOR SHALL, AS DETERMINED BY THE CITY OF FRANKLIN EITHER:
 - (A) CONSTRUCT THE CONTROLLER CABINET AND FOUNDATION IN ACCORDANCE WITH TDOT TYPE IV CONTROLLER CABINET: OR
 - CONSTRUCT THE TDOT TYPE IV CONTROLLER CABINET AND FOUNDATION IN (B) ACCORDANCE WITH CITY OF FRANKLIN TOC-04, A TDOT TYPE IV CABINET WITH BACKUP POWER SUPPLY AND FOUNDATION.
- CONTRACTOR SHALL NOTIFY THE TENNESSEE ONE CALL SYSTEM, INC. AND ALL (6) POSSIBLY AFFECTED INDIVIDUAL UTILITY OWNERS, INCLUDING THE CITY OF FRANKLIN, A MINIMUM OF THREE (3) DAYS PRIOR TO COMMENCEMENT OF OPERATIONS, AND REQUEST THEM TO PROPERLY FIELD LOCATE AND MARK RESPECTIVE UTILITIES ALONG THE GROUND.
- ALL UTILITY LOCATIONS, AS SHOWN ON PLAN SET, ARE APPROXIMATE. IT IS THE (7)RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

MATERIALS & INSTALLATION:

- (8) ALL CONDUIT SHALL BE SCHEDULE 40 P.V.C. UNLESS OTHERWISE NOTED. CONDUIT SHALL BE INSTALLED AT A MINIMUM DEPTH OF 24" BELOW FINISHED GRADE AND SHALL COMPLY WITH THE CITY OF FRANKLIN'S TRENCHING DETAILS AND CONDUIT PLACEMENT PER CITY OF FRANKLIN STANDARD DETAIL ITS-2.
- THE PROPOSED LOCATIONS OF SUPPORT POLES AND CONTROLLER MAY BE SLIGHTLY (9) ADJUSTED TO ACCOMMODATE FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND STAKING OPTIMUM LOCATIONS FOR POLES AND CONTROLLER. CONTRACTOR SHALL OBTAIN APPROVAL BY THE CITY OF FRANKLIN ENGINEERING DEPARTMENT PRIOR TO INSTALLATION.
- (10) THE CONTRACTOR AND/OR THE POLE FABRICATOR SHALL DETERMINE THE SIZE AND DESIGN OF ALL STEEL SUPPORT POLES AND FOUNDATIONS. SHOP DRAWINGS FOR THE PROPOSED POLES SHALL BE SUBMITTED TO THE CITY OF FRANKLIN ENGINEERING DEPARTMENT FOR REVIEW AND APPROVAL. THE STEEL SUPPORTS SHALL BE FINISHED BY THE MANUFACTURER IN A BLACK GLOSS COLOR AND SHALL BE TOUCHED UP AS NEEDED BY THE CONTRACTOR.
- (11) THE CONTRACTOR SHALL LABEL ALL NEW AND EXISTING CABLES IN THE CABINET POLE/PEDESTAL BASES AND PULL BOXES USING THE CONVENTION OF DRAWING T-SG-12. EACH WIRE SHALL BE IDENTIFIED BY A CIRCULAR PLASTIC TAG, 1 3/8" DIAMETER WITH PREPRINTED LETTERING DIES OF MINIMUM 1/4" HEIGHT. TAGS SHALL BE PERMANENTLY FASTENED TO WIRE BY MEANS OF NYLON SELF CLINCHING STRAPS. MARKING SHALL INDICATE "GRD" FOR ALL GROUND AND GROUNDED NEUTRAL CONDUCTORS. COMPANION CIRCUIT CONDUCTORS SHALL BE MARKED "CKT" FOLLOWED BY THE DESIGNATED CHARACTERS AS SHOWN ON THE PLANS.
- (12) THE CONTRACTOR SHALL SEAL ALL OPEN CONDUIT ENTRANCE HOLES, WITH OR WITHOUT CABLES, WITH CONDUIT DUCT SEAL PUTTY. WHERE CABLES ENTER THE CONDUIT, THE SEALANT SHALL BE APPLIED AFTER INSTALLING THE CABLE. THESE LOCATIONS SHALL CONSIST OF CONDUIT ENDS IN PULL BOXES, CABINET BASES AND WEATHERHEADS.
- (13) THE CONTRACTOR IS REQUIRED TO ATTEND A PRE-CONSTRUCTION MEETING WITH THE CITY OF FRANKLIN ENGINEERING AND STREETS DEPARTMENTS PRIOR TO THE COMMENCEMENT OF THE PROJECT. CALL (615) 791-3218 FOR MEETING SCHEDULE.
- (14) INSPECTIONS OF ALL ASPECTS OF THE TRAFFIC SIGNAL INSTALLATION AND OF THE INTELLIGENT TRANSPORTATION SYSTEMS (ITS) WILL BE PERFORMED. THE CONTRACTOR SHALL NOTIFY THE CITY DAILY OF THEIR INTENDED ACTIVITIES.

CONDUIT:

- (15) MULTIPLE RUNS OF CONDUIT SHALL BE PLACED IN THE SAME TRENCH.
- (16) ALL ELECTRICAL WORK AND POWER SERVICE DUCT SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE "NATIONAL ELECTRICAL CODE". "NATIONAL ELECTRICAL SAFETY CODE", LOCAL BUILDING CODES, AND TO THE REQUIREMENTS OF TDOT AND ALL UTILITIES INVOLVED.



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