

TENNESSEE D.O.T.

DESIGN DIVISION

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ELECTRIC DETAILS

UTILITY INFORMATION

KNOXVILLE UTILITIES BOARD
4505 MIDDLEBROOK PIKE
KNOXVILLE, TN 37921-5599
DANIEL MCELYEA
(865) 558-2699
Daniel.McElyea@kub.org

KUB

KNOXVILLE
UTILITIES
BOARD

ITEM NO.

DESCRIPTION

UNIT

QUANTITY

% Utility
Betterment

%Project
Public

%Project
Private

790-03.03

POLE 40FT CLASS 4 WOOD

EACH

1

0.00%

100.00%

0.00%

790-04.03

POLE 45FT CLASS 3 WOOD

EACH

5

0.00%

100.00%

0.00%

790-05.01

POLE 50FT CLASS 1 WOOD

EACH

1

0.00%

100.00%

0.00%

790-05.02

POLE 50FT CLASS 2 WOOD

EACH

2

0.00%

100.00%

0.00%

790-06.01

POLE 55FT CLASS 1 WOOD

EACH

1

0.00%

100.00%

0.00%

790-07.05

POLE 60FT CLASS 1 METAL

EACH

1

0.00%

100.00%

0.00%

790-20.01

POLE(65FT CLASS1 DUCTILE IRON)

EACH

3

0.00%

100.00%

0.00%

790-21.08

1Ø DEADEND 15KV

EACH

2

0.00%

100.00%

0.00%

790-25.07

3Ø CROSSARM DBL LRG COND 15KV

EACH

2

0.00%

100.00%

0.00%

790-25.12

3Ø CROSSARM DBL 10FT PRIM SUP 15KV

EACH

2

0.00%

100.00%

0.00%

790-25.16

3Ø VERTICAL LRG COND 15KV

EACH

1

0.00%

100.00%

0.00%

790-25.19

3Ø VERTICAL DEADEND 15KV

EACH

1

0.00%

100.00%

0.00%

790-25.21

3Ø CROSSARM DEADEND SGL 15KV

EACH

10

0.00%

100.00%

0.00%

790-25.24

3Ø CROSSARM DDE LRG COND 15KV

EACH

4

0.00%

100.00%

0.00%

790-30.04

SECONDARY ASSEMBLIES MISC

EACH

16

0.00%

100.00%

0.00%

790-30.06

SECONDARY CONDUCTOR 6 AL DUPLEX

LF

1335

0.00%

100.00%

0.00%

790-30.13

SECONDARY CONDUCTOR 2 AL TRIPLEX

LF

512

0.00%

100.00%

0.00%

790-32.01

DOWN GUY - THROUGH BOLT TYPE

EACH

2

0.00%

100.00%

0.00%

790-32.02

DOWN GUY - THROUGH BOLT TYPE HEAVY DUTY

EACH

38

0.00%

100.00%

0.00%

790-32.08

OH GUY - THROUGH BOLT TYPE HEAVY DUTY

EACH

2

0.00%

100.00%

0.00%

790-33.03

SCREW TYPE ANCHOR 6,000LB-8,000LB

EACH

5

0.00%

100.00%

0.00%

790-33.04

SCREW TYPE ANCHOR 10,000LB-12,000LB

EACH

14

0.00%

100.00%

0.00%

790-36.01

SWITCH-900A-UNDERSLUNG

EACH

2

0.00%

100.00%

0.00%

790-36.06

TRANSFER LIGHT

EACH

11

0.00%

100.00%

0.00%

790-40.01

OH COND 4 7/1 ACSR SWANATE

LF

472

0.00%

100.00%

0.00%

790-40.03

OH COND 1/0 6/1 ACSR RAVEN

LF

240

0.00%

100.00%

0.00%

790-40.39

OH COND 4/0 7 AAC OXLIP

LF

2102

0.00%

100.00%

0.00%

790-40.49

OH COND 795 37 AAC ARBUTUS

LF

6306

0.00%

100.00%

0.00%

790-46.02

1Ø TRANSFORMER CONV W/POLE MTD FUSE & LA

EACH

5

0.00%

100.00%

0.00%

790-52.04

15KVA 1Ø OH XFORMER 7.2KV 120/240

EACH

1

0.00%

100.00%

0.00%

790-60.02

1Ø FUSE CUTOUT BRKT MOUNT 15KV

EACH

6

0.00%

100.00%

0.00%

790-68.01

POLE GROUND ROD TYPE

EACH

10

0.00%

100.00%

0.00%

790-68.03

POLE GROUND WRAP TYPE

EACH

3

0.00%

100.00%

0.00%

790-68.11

DEAD END SHOE

EACH

21

0.00%

100.00%

0.00%

790-69.24

EPOXY DEAD END

EACH

21

0.00%

100.00%

0.00%

790-69.32

ARM PIN

EACH

16

0.00%

100.00%

0.00%

790-69.33

DEADEND ASSEMBLY

EACH

7

0.00%

100.00%

0.00%

790-98.01

REMOVE WIRE

LF

19072

0.00%

100.00%

0.00%

790-98.02

REMOVE POLES

EACH

29

0.00%

100.00%

0.00%

790-98.03

REMOVE FRAMING/ASSOCIATED APPARATUS

EACH

109

0.00%

100.00%

0.00%

FOOTNOTE 1:
INCLUDES ALL LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION
INCLUDING BUT NOT LIMITED TO SETUP, TRAFFIC CONTROL, DIGGING
HOLE, POLE PLACEMENT, BACKFILLING, BLASTING, & NUMBERING POLE.

FOOTNOTE 2:
ASSEMBLIES OF SIMILAR CONSTRUCTION BUT DIFFERING ONLY IN USE OF
EPOXY VS. PORCELAIN INSULATORS OR FIBERGLASS VS. WOOD
CROSSARMS OR LACK OF NEUTRAL ASSEMBLY SHOULD BE GROUPED
WITHIN THE SAME ITEM.

FOOTNOTE 3:
TRANSFER EXISTING SECONDARY OR SERVICE TO NEW
POLES. INCLUDES SPLICING IN CONDUCTOR AS REQUIRED.

FOOTNOTE 4:
INCLUDES, WEDGE CLAMPS, AND CONNECTORS AT EACH END

FOOTNOTE 5:
INCLUDES YELLOW PLASTIC GUY MARKER, FIBERGLASS INSULATED
LINKS WHERE REQUIRED.

FOOTNOTE 6:
8 INCH SINGLE HELIX PISA

FOOTNOTE 7:
10 INCH DOUBLE HELIX PISA

FOOTNOTE 8:
INCLUDES 2 ARMS, BRACES, 3 SWITCHES, AND ALL MISCELLANEOUS
MATERIALS TO MAKE A COMPLETE THREE PHASE UNIT.

FOOTNOTE 9:
INCLUDES SAGGING AND TYING IN OF OH PRIMARY CONDUCTORS.
ALSO INCLUDES LINEGUARDS WITH TIES AND/OR PREFORMED TIES.

FOOTNOTE 10:
INCLUDES CUTOUT, ARRESTOR AND ALL MISCELLANEOUS MATERIALS
EXCEPT TRANSFORMERS.

FOOTNOTE 11:
TRANSFORMER TO BE FUNISHED BY KUB, LABOR ONLY TO INSTALL
TRANSFORMER

FOOTNOTE 12:
INCLUDES DROP WIRE, OH GUYS, MAIN LINE WIRE

FOOTNOTE 13:
INCLUDES MAINLINE POLES, SERVICE POLES, STUB POLES

FOOTNOTE 14:
INCLUDES CROSSARMS, TRANSFORMERS, SWITCHES, ETC.

FOOTNOTE 15:
METAL POLES TO BE DUCTILE IRON

GENERAL NOTES
PROJECT DESCRIPTION IN GENERAL, THE CONTRACTOR SHALL
REMOVE 1990 LINEAR FEET OF THREE PHASE OH POWER LINE AND
INSTALL 1467 LINEAR FEET OF THREE PHASE OVERHEAD POWER
LINE.

THE CONTRACTOR SHALL INSTALL 633 LINEAR FEET OF THREE
PHASE OVERHEAD POWER LINE ACROSS I-640 AND BROADWAY ONCE
WORK ON THESE OVERPASSES HAS BEEN COMPLETED.

ALSO, THE CONTRACTOR SHALL REMOVE 800 LINEAR FEET OF
SINGLE PHASE OVERHEAD POWER LINE AND 1331 LINEAR FEET OF
SECONDARY AND SERVICE CONDUCTORS THAT WILL NOT BE
REPLACED.

UTILITIES
(1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS
ARE APPROXIMATE ONLY. 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.

(2) 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.

(3) 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.

(4) 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.

(5) THE UTILITY OWNER WILL FURNISH ALL TRANSFORMERS TO BE
INSTALLED PER THE CONTRACT DRAWINGS. TRANSFORMERS TO BE
REMOVED WILL BE RETURNED TO THE UTILITY OWNER. ALL OTHER
MATERIAL TO BE KEPT BY THE CONTRACTOR.

(6) ALL POLE HEIGHTS ARE FOR FINAL GRADE. IN LOCATIONS
WHERE POLES ARE INSTALLED WITHIN PROPOSED GRADE WORK, IT
IS ASSUMED GRADE WORK WILL BE COMPLETED PRIOR TO POLE
INSTALLATION. IF NOT, COORDINATE ALL REQUIRED WORK WITH
DEPARTMENTS RPR AND UTILITY.

TYPE

YEAR

PROJECT NO.

SHEET NO.

ROW

2014

NH-I-640-7(161)

U3-1

CONST

2015

NH-I-640-7(161)

2B1

KNOX CO.

I-640

47008-3150-44 (CONST.)

CANNON & CANNON INC

CONSULTING ENGINEERS · FIELD SURVEYORS

Tel 865.670.8555

www.cannon-cannon.com

8550 Kingston Pike

Knoxville, TN 37919

KUB

KNOXVILLE
UTILITIES
BOARD

ELECTRIC RELOCATION

COVER SHEET

JEFF L. MEADOW

2015

AGRICULTURE

No. 23035

STATE OF TENNESSEE

CCI NO.

01009-0002

P.I.C.

JEFF MEADOW

DRAWN

WVH

Q.C.

SCALE:

1"=50'

DATE:

9/17/15

9/17/2015 3:44:36 PM
Z:\0009-0002\Utilities\B Date Microstation Files\U3-1.sht

ALL MATERIAL USED ON THIS PROJECT SHALL COMPLY
WITH TDOT'S BUY AMERICAN REQUIREMENTS