

**Logan Todd Regional Water Commission**  
***Water System Expansion to Springfield TN***  
**Contract No. 3 – 24” Water Pipeline to Springfield**

**ADDENDUM No. 3**

April 24, 2018

This ADDENDUM to plans, specifications and bidding documents for the subject project modifies the referenced items to the extent described herein. Items not modified by this ADDENDUM remain unchanged and in full effect. Bidders are required to acknowledge receipt of this ADDENDUM on the Bid Form.

1. Documents: Appendix: **Add** Appendix 6 – Tennessee Right of Way Plans {prepared by American Engineers, Inc. on behalf of the City of Springfield, TN} (Attachments: 35 total sheets in the original water line plan set + 4 total sets in the Adams Revision set):

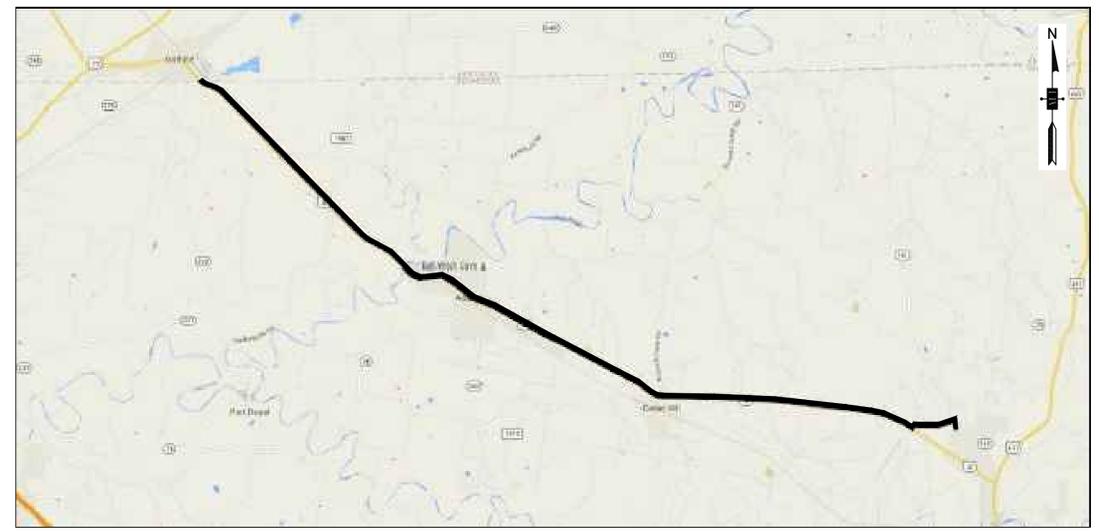
Kentucky easements were obtained by the Logan Todd Regional Water Commission (Owner), and include 20’ total permanent width and 30’ total temporary width, dictated by the center of the pipeline

END OF ADDENDUM NO. 3 TEXT  
This ADDENDUM consists of a total of 40 pages.

# LOGAN TODD REGIONAL WATER COMMISSION

## WATER SYSTEM EXPANSION TO SPRINGFIELD (TN)

### WATER LINE PLAN



LOCATION MAP  
NOT TO SCALE

SCALE:  
1" = 50' (H)  
1" = 5' (V)

No.	Revision	Date	By
1	FOR KODW REVIEW	09-02-11	CWW

REVISIONS

**LTRWC**  
Logan Todd  
Reg. Water Commission

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(270) 483-6990

**McGhee**  
Engineering

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**AEI**  
AMERICAN ENGINEERS, INC.  
PROFESSIONAL ENGINEERING

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Glasgow, KY 42141  
(270) 651-7220

FIRM: McGhee  
DES BY: MWM    CHK BY: ETH  
DWN BY: CWW    APP BY:  
SCALE: AS SHOWN  
PROJECT DATE: 2015  
PRINTED:  
LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING

Logan Todd Regional  
Water Commission  
**WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)**  
*Water Line: Plan & Profile*

**Quality On Tap!**

*SURVEYOR*  
**ROBERT NEUHAUS, P.L.S.**  
**AMERICAN ENGINEERS, INC.**  
65 ABERDEEN DRIVE  
GLASGOW, KENTUCKY 42141  
(270) 651-7220

DRAWING NO.  
**0**  
SHEET

#### LEGEND / ABBREVIATIONS

##### ABBREVIATIONS

<p>A AREA</p> <p>ALT ALTERNATE</p> <p>AMP AMPERE</p> <p>ARCH ARCHITECTURAL</p> <p>ASTM AMERICAN SOCIETY FOR TESTING &amp; MATERIALS</p> <p>BC BACK OF CURB</p> <p>BIT BITUMINOUS PAVEMENT</p> <p>BM BENCH MARK</p> <p>C CONDUIT</p> <p>CAL CALIPER</p> <p>CB CATCH BASIN</p> <p>CFH CUBIC FEET PER HOUR</p> <p>CI CURB ISLAND</p> <p>CIR CIRCUIT</p> <p>CONC CONCRETE</p> <p>DIA DIAMETER</p> <p>(E) EAST</p> <p>E.I.F.S. EXTERIOR INSULATION FINISHING SYSTEM</p> <p>EL ELEVATION</p> <p>EQ EQUIVALENT</p> <p>ES END SECTION</p> <p>ETC ETCETERA</p> <p>FH FIRE HYDRANT</p> <p>FF FINISHED FLOOR</p> <p>FS FOOT SQUARE</p> <p>GND, GRD GROUND</p> <p>GP GUTTER PAN</p> <p>GPD GALLONS PER DAY</p> <p>GPM GALLONS PER MINUTE</p> <p>GV&amp;BOX GATE VALVE AND BOX</p> <p>HC HIGH CAPACITY</p> <p>HD HEAVY DUTY</p> <p>HEX HEXAGON</p> <p>HT HEIGHT</p> <p>IE INVERT ELEVATION</p> <p>KVA KILAVOLT AMPERE</p> <p>LBS POUNDS</p> <p>LD LIGHT DUTY</p> <p>LED LIGHT EMITTING DIODE</p> <p>LF LINEAR FEET</p> <p>LG LARGE</p> <p>MANUF MANUFACTURE</p> <p>MATL MATERIAL</p> <p>MAX MAXIMUM</p> <p>MECH MECHANICAL</p> <p>MIN MINIMUM</p> <p>MH MANHOLE</p>	<p>(N) NORTH</p> <p>OC ON CENTER</p> <p>OSHA OCCUPATIONAL SAFETY &amp; HEALTH ADMINISTRATOR</p> <p>PC POINT OF CURVATURE</p> <p>PE POLYETHYLENE</p> <p>PH PHASE</p> <p>PSI POUNDS PER SQUARE INCH</p> <p>PT POINT OF TANGENCY</p> <p>PVC POLYVINYL CHLORIDE</p> <p>PWMT PAVEMENT WIDTH</p> <p>R RADIUS</p> <p>RCP REINFORCED CONCRETE PIPE</p> <p>RE REFERENCE</p> <p>REQD REQUIRED</p> <p>ROW RIGHT-OF-WAY</p> <p>RW RETAINING WALL</p> <p>(S) SOUTH</p> <p>SAN SANITARY SEWER</p> <p>SB SOIL BORING</p> <p>SF SQUARE FEET</p> <p>SQ SQUARE</p> <p>STM STORM SEWER</p> <p>STRUC STRUCTURE</p> <p>TC TOP OF CURB</p> <p>TEL TELEPHONE</p> <p>TP TOP OF PAVEMENT</p> <p>TRNF TRANSFORMER</p> <p>TS TOP OF SLAB</p> <p>TW TOP OF WALL</p> <p>TYP TYPICAL</p> <p>UC UTILITY CROSSING</p> <p>UD UNDER DRAIN</p> <p>W WIRE</p> <p>(W) WEST</p> <p>WT WITH</p> <p>WC WATER COLUMN</p> <p>WTR WATER</p> <p>WWF WELDED WIRE FABRIC</p>
--	--

##### LEGEND

<p>--- P.L. --- RIGHT OF WAY</p> <p>--- ADJOINING PROPERTY LINE</p> <p>--- EXISTING EASEMENT</p> <p>--- 67% --- EXISTING 1' CONTOUR</p> <p>--- 34% --- EXISTING 5' CONTOUR</p> <p>--- EXISTING CONCRETE CURB</p> <p>--- W/ DROP CURB</p> <p>--- EDGE OF PAVEMENT</p> <p>--- EXISTING OVERHEAD WIRES</p> <p>--- EXISTING UNDERGROUND ELECTRICAL LINE</p> <p>--- EXISTING WATER LINE</p> <p>--- EXISTING UNDERGROUND TELEPHONE LINE</p> <p>--- SS --- EXISTING SANITARY SEWER</p> <p>--- ST --- EXISTING STORM</p> <p>--- G --- EXISTING GASLINE</p> <p>--- X --- EXISTING FENCE</p> <p>⊕ F.H. EXISTING FIRE HYDRANT</p> <p>⊕ WATER VALVE</p> <p>⊕ WATER METER</p> <p>⊕ GAS METER</p> <p>⊕ EXISTING POWER POLE</p> <p>⊕ EXISTING LIGHT POLE (2 LIGHTS)</p> <p>⊕ EXISTING SANITARY SEWER MANHOLE</p> <p>⊕ EXISTING STORM SEWER MANHOLE</p> <p>⊕ DROP BOX INLET (DBI)</p> <p>⊕ EXISTING TRANSFORMER PAD</p>	<p>⊕ TELEPHONE PEDESTAL</p> <p>⊕ EXISTING TREE</p> <p>⊕ SPRINKLER HEAD</p> <p>⊕ EXISTING SIGN</p> <p>⊕ BENCH MARK</p> <p>⊕ DOWNSPOUT</p> <p>⊕ ELECTRIC JUNCTION BOX</p> <p>⊕ EXISTING GUIDE WIRE</p> <p>⊕ EXISTING CLEANOUT</p> <p>⊕ EXISTING BOLLARD</p> <p>⊕ 1/2" IRON PIN &amp; CAP (SET) R. NEUHAUS KY PL-3857 AS DESCRIBED</p> <p>⊕ IRON PIN AND CAP FOUND "RELINKS 347"</p> <p>⊕ IRON PIN AND CAP FOUND "T. JOBE 2025"</p> <p>⊕ IRON PIN AND CAP FOUND "SEA 1708"</p>	<p>▨ EXISTING STRUCTURE (AS NOTED)</p> <p>▨ EXISTING CONCRETE</p> <p>▨ EXISTING GRAVEL</p> <p>▨ EXISTING LANDSCAPED AREA</p>
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**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY
---	PROPERTY LINE
---	ADJOINING PROPERTY LINE
---	EXISTING EASEMENT
---	EDGE OF PAVEMENT
OH	EXISTING OVERHEAD WIRES
C	EXISTING UNDERGROUND ELECTRICAL LINE
W	EXISTING WATER LINE
T	EXISTING UNDERGROUND TELEPHONE LINE
SS	EXISTING SANITARY SEWER
G	EXISTING GASLINE
X	EXISTING FENCE
R	EXISTING RAILROAD
TREE	EXISTING TREE LINE
F.H.	EXISTING FIRE HYDRANT
W.V.	WATER VALVE
W.M.	WATER METER
G.M.	GAS METER
P.P.	EXISTING POWER POLE
L.P.	EXISTING LIGHT POLE (2 LIGHTS)
S.M.	EXISTING SANITARY SEWER MANHOLE
S.S.M.	EXISTING STORM SEWER MANHOLE
D.B.I.	DROP BOX INLET (DBI)
T.P.	EXISTING TRANSFORMER PAD
T.P.E.	TELEPHONE PEDESTAL
T.	EXISTING TREE
S.H.	SPRINKLER HEAD
S.	EXISTING SIGN
E.J.B.	ELECTRIC JUNCTION BOX
G.W.	EXISTING GUIDE WIRE

SCALE:  
1" = 50' (H)  
1" = 5' (V)

No.	Revision	Date	By
1	FOR KODW REVIEW	09-02-11	CWW

REVISIONS

**LTRWC**  
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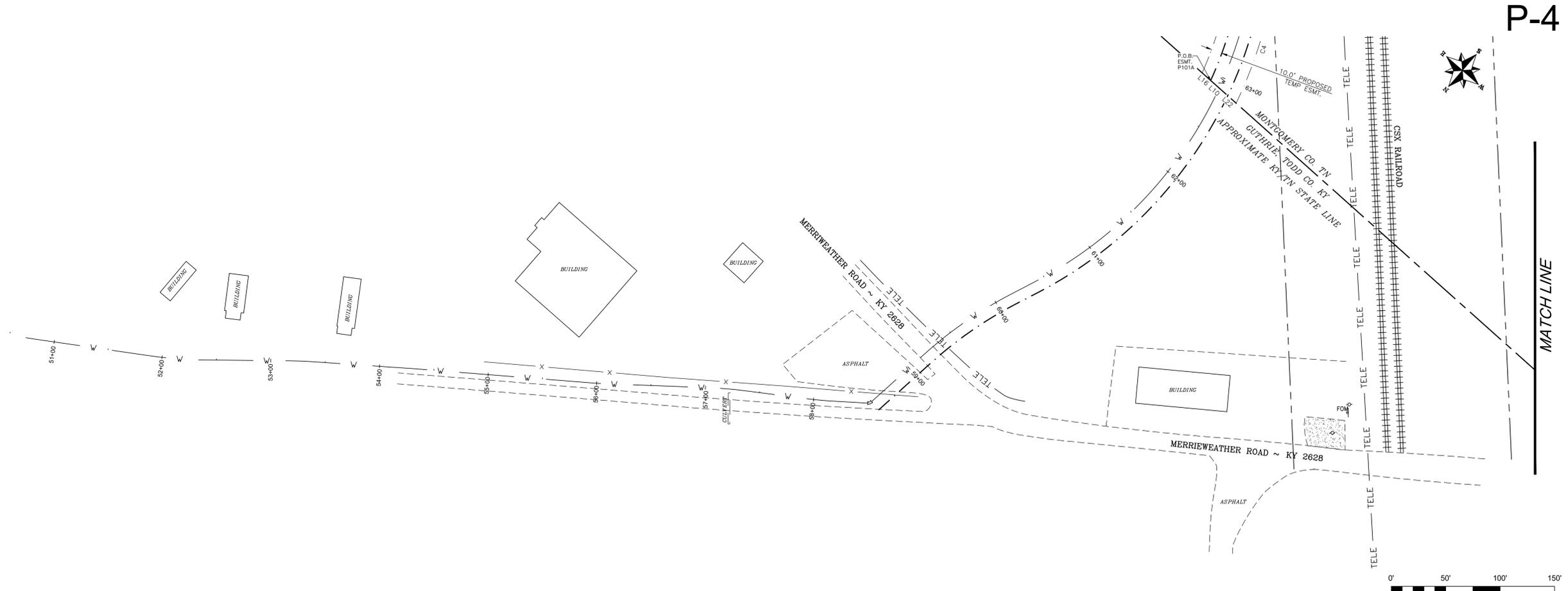
**ABJ**  
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FIRM: McGhee  
DES BY: MMW  
DWN BY: CWW  
SCALE: AS SHOWN  
PROJECT DATE: 2015  
PRINTED:  
LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING

Logan Todd Regional  
Water Commission  
**WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)**  
Water Line: Plan & Profile

**Quality**  
On Tap!

DRAWING NO.  
SHEET **1**

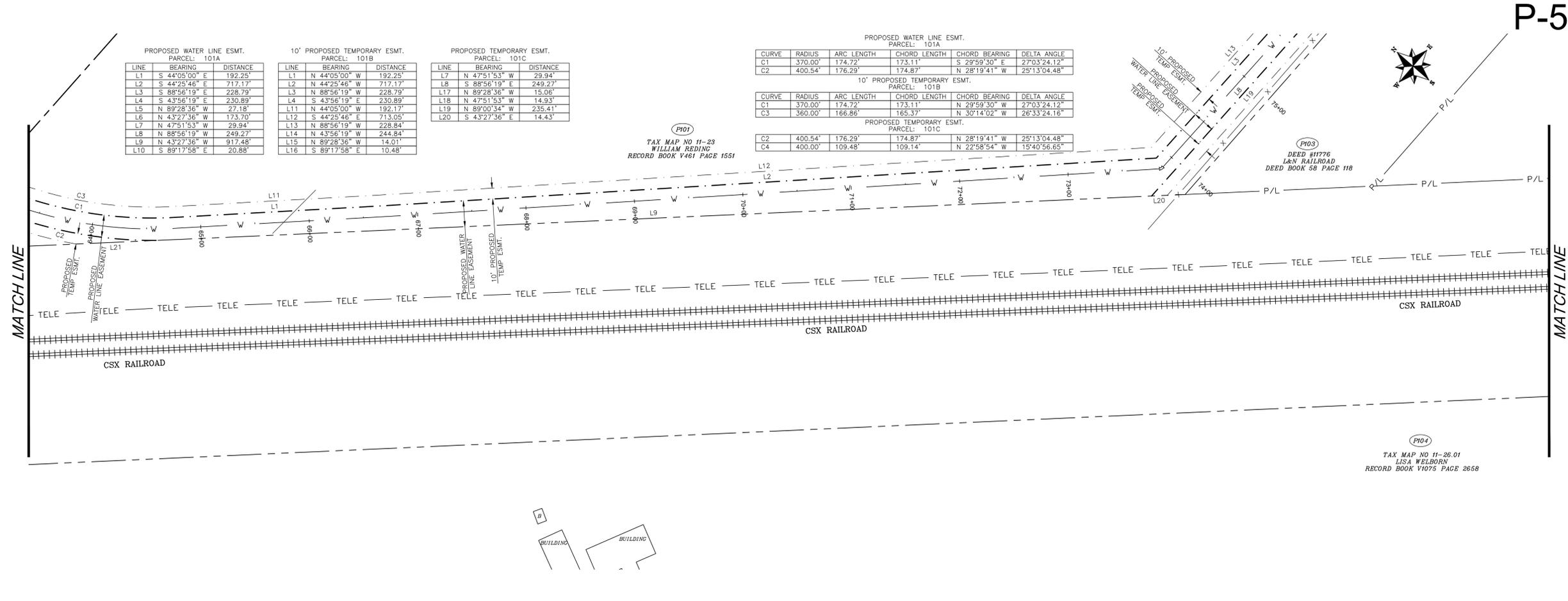


P-4

**LEGEND**

SYMBOLS THAT MAY APPEAR ON DRAWING

- RIGHT OF WAY PROPERTY LINE
- - - ADJOINING PROPERTY LINE
- - - - - EDDING EASEMENT
- EDGE OF PAVEMENT
- EXISTING OVERHEAD WIRES
- EXISTING UNDERGROUND ELECTRICAL LINE
- EXISTING WATER LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING SANITARY SEWER
- EXISTING GASLINE
- EXISTING RAILROAD
- EXISTING TREE LINE
- EXISTING FIRE HYDRANT
- WATER VALVE
- WATER METER
- GAS METER
- EXISTING POWER POLE
- EXISTING LIGHT POLE (2 LIGHTS)
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- DROP BOX INLET (DBI)
- EXISTING TRANSFORMER PAD
- TELEPHONE PEDESTAL
- EXISTING TREE
- SPRINKLER HEAD
- EXISTING SIGN
- ELECTRIC JUNCTION BOX
- EXISTING GUIDE WIRE



P-5



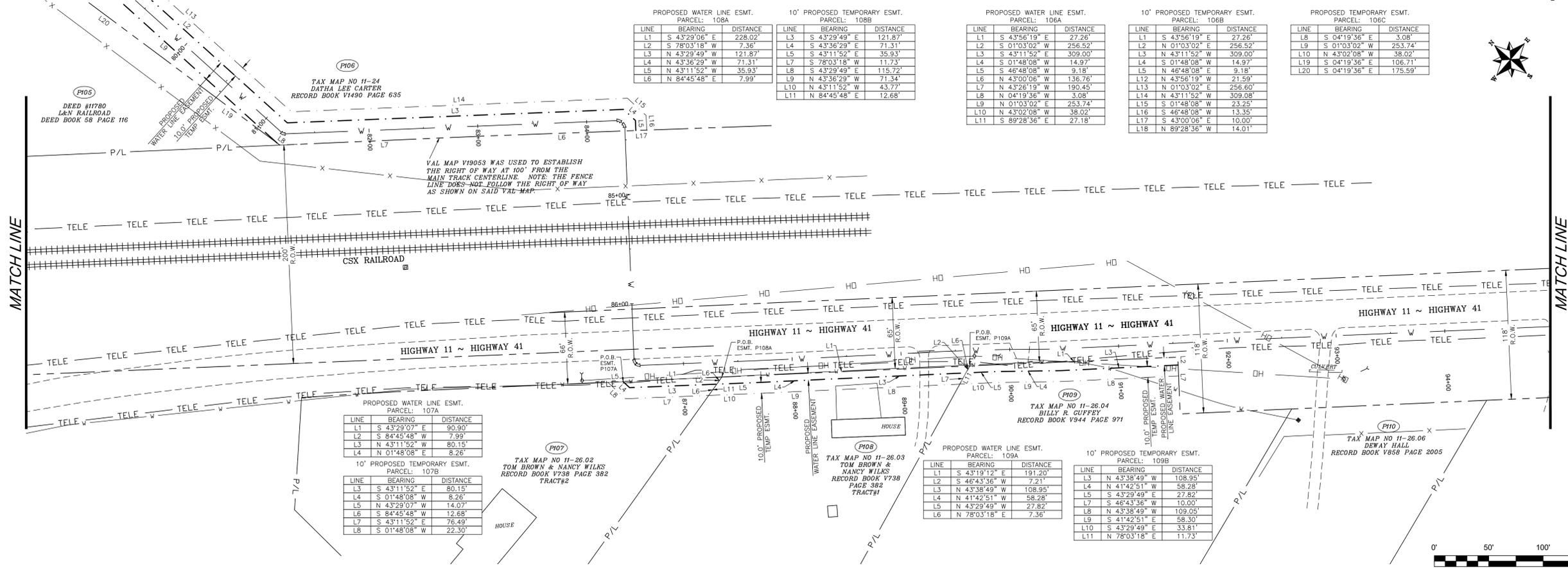
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P-6



FIRM: McGhee  
DES BY: MWM  
CHK BY: ETH  
DWN BY: CWW  
SCALE: AS SHOWN  
PROJECT DATE: 2015  
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LENGTH OF BAR IS 1"  
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Logan Todd Regional  
Water Commission  
**WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)**  
Water Line: Plan & Profile

**Quality On Tap!**

DRAWING NO. **2**  
SHEET

**LEGEND**

SYMBOLS THAT MAY APPEAR ON DRAWING

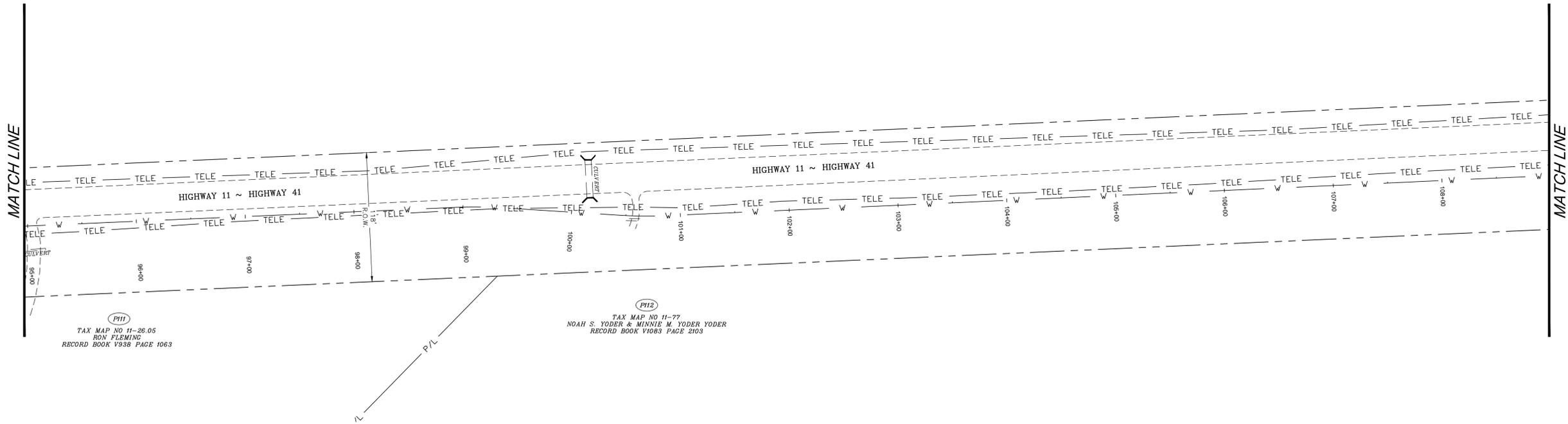
- RIGHT OF WAY
- PROPERTY LINE
- ADJOINING PROPERTY LINE
- EXISTING EASEMENT
- EDGE OF PAVEMENT
- EXISTING OVERHEAD WIRES
- EXISTING UNDERGROUND ELECTRICAL LINE
- EXISTING WATER LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING SANITARY SEWER
- EXISTING GAS LINE
- EXISTING FENCE
- EXISTING RAILROAD
- EXISTING TREE LINE
- F.H. EXISTING FIRE HYDRANT
- WATER VALVE
- WATER METER
- GAS METER
- EXISTING POWER POLE
- EXISTING LIGHT POLE (2 LIGHTS)
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- DROP BOX INLET (DBI)
- EXISTING TRANSFORMER PAD
- TELEPHONE PEDESTAL
- EXISTING TREE
- SPRINKLER HEAD
- EXISTING SIGN
- ELECTRIC JUNCTION BOX
- EXISTING GUIDE WIRE

P-7



SCALE:  
1" = 50' (H)  
1" = 5' (V)

No.	Revision	Date	By
1	FOR KODW REVIEW	09-02-11	CWW
REVISIONS			



TAX MAP NO 11-26.05  
RON FLEMING  
RECORD BOOK V938 PAGE 1063

TAX MAP NO 11-77  
NOAH S. YODER & MINNIE M. YODER  
RECORD BOOK Y1083 PAGE 2103

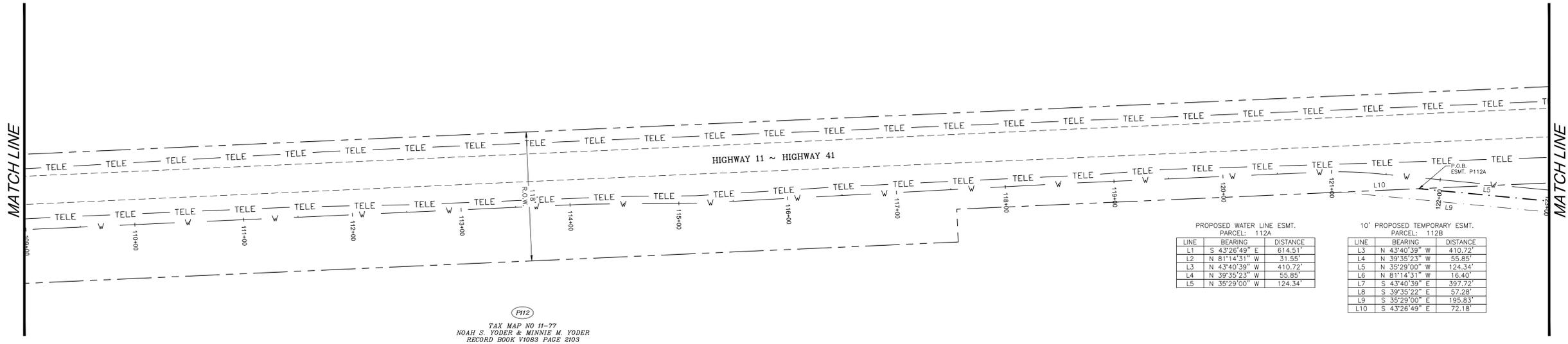
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Reg. Water Commission

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(270) 651-7220

FIRM: McGhee  
DES BY: MWM  
CHK BY: ETH  
DWN BY: CWW  
APP BY:  
PROJECT DATE: 2015  
SCALE: AS SHOWN  
PRINTED:  
LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING

P-8



TAX MAP NO 11-77  
NOAH S. YODER & MINNIE M. YODER  
RECORD BOOK Y1083 PAGE 2103

PROPOSED WATER LINE ESMT.  
PARCEL: 112A

LINE	BEARING	DISTANCE
L1	S 43°26'49" E	614.51'
L2	N 81°14'31" W	31.55'
L3	N 43°40'39" W	410.72'
L4	N 39°35'23" W	55.85'
L5	N 35°29'00" W	124.34'

10' PROPOSED TEMPORARY ESMT.  
PARCEL: 112B

LINE	BEARING	DISTANCE
L3	N 43°40'39" W	410.72'
L4	N 39°35'23" W	55.85'
L5	N 35°29'00" W	124.34'
L6	N 81°14'31" W	16.40'
L7	S 43°40'39" E	397.72'
L8	S 39°35'22" E	57.28'
L9	S 35°29'00" E	195.83'
L10	S 43°26'49" E	72.18'

Logan Todd Regional  
Water Commission  
**WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)**  
Water Line: Plan & Profile



DRAWING NO.  
SHEET **3**

**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY
---	PROPERTY LINE
---	ADJOINING PROPERTY LINE
---	EXISTING EASEMENT
---	EDGE OF PAVEMENT
---	EXISTING OVERHEAD WIRES
---	EXISTING UNDERGROUND ELECTRICAL LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND TELEPHONE LINE
---	EXISTING SANITARY SEWER
---	EXISTING GASLINE
---	EXISTING FENCE
---	EXISTING RAILROAD
---	EXISTING TREE LINE
---	F.H. EXISTING FIRE HYDRANT
---	WATER VALVE
---	WATER METER
---	GAS METER
---	EXISTING POWER POLE
---	EXISTING LIGHT POLE (2 LIGHTS)
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING STORM SEWER MANHOLE
---	DROP BOX INLET (DBI)
---	EXISTING TRANSFORMER PAD
---	TELEPHONE PEDESTAL
---	EXISTING TREE
---	SPRINKLER HEAD
---	EXISTING SIGN
---	ELECTRIC JUNCTION BOX
---	EXISTING GUIDE WIRE

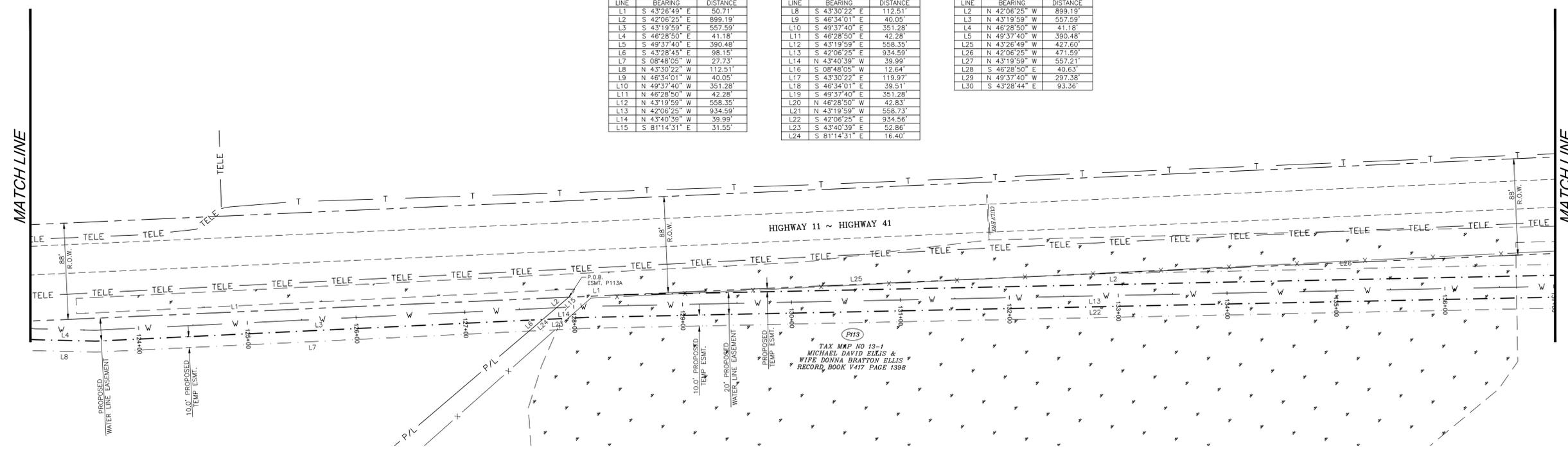
P-10



SCALE:  
1" = 50' (H)  
1" = 5' (V)

NO.	REVISIONS
1	FOR ROW REVIEW
2	DATE
3	BY
4	CWW

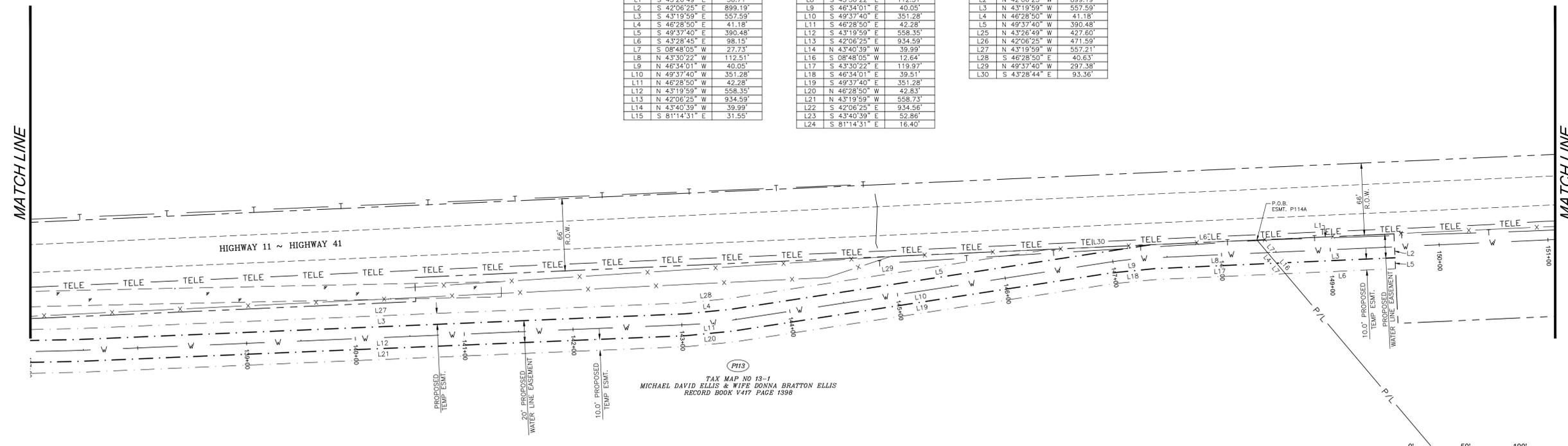
20' PROPOSED WATER LINE ESMT. PARCEL: 113A			10' PROPOSED TEMPORARY ESMT. PARCEL: 113B			PROPOSED TEMPORARY ESMT. PARCEL: 113C		
LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L1	S 43°26'49" E	50.71'	L8	S 43°30'22" E	112.51'	L2	N 42°06'25" W	899.19'
L2	S 42°06'25" E	899.19'	L9	S 46°34'01" E	40.05'	L3	N 43°19'59" W	557.59'
L3	S 43°19'59" E	557.59'	L10	S 49°37'40" E	351.28'	L4	N 46°28'50" W	41.18'
L4	S 46°28'50" E	41.18'	L11	S 46°28'50" E	42.28'	L5	N 49°37'40" W	390.48'
L5	S 49°37'40" E	390.48'	L12	S 43°19'59" E	558.35'	L25	N 43°28'49" W	427.60'
L6	S 43°28'45" E	98.15'	L13	S 42°06'25" E	934.59'	L13	S 42°06'25" E	934.59'
L7	S 08°48'05" W	27.73'	L14	N 43°40'39" W	39.99'	L16	S 08°48'05" W	12.64'
L8	N 43°30'22" W	112.51'	L15	S 81°14'31" E	31.55'	L17	S 43°30'22" E	119.97'
L9	N 46°34'01" W	40.05'				L18	S 46°34'01" E	39.51'
L10	N 49°37'40" W	351.28'				L19	S 49°37'40" E	351.28'
L11	N 46°28'50" W	42.28'				L20	N 46°28'50" W	42.83'
L12	N 43°19'59" W	558.35'				L21	N 43°19'59" W	558.73'
L13	N 42°06'25" W	934.59'				L22	S 42°06'25" E	934.56'
L14	N 43°40'39" W	39.99'				L23	S 43°40'39" E	52.86'
L15	S 81°14'31" E	31.55'				L24	S 81°14'31" E	16.40'



P-11



20' PROPOSED WATER LINE ESMT. PARCEL: 113A			10' PROPOSED TEMPORARY ESMT. PARCEL: 113B			PROPOSED TEMPORARY ESMT. PARCEL: 113C		
LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L1	S 43°26'49" E	50.71'	L8	S 43°30'22" E	112.51'	L2	N 42°06'25" W	899.19'
L2	S 42°06'25" E	899.19'	L9	S 46°34'01" E	40.05'	L3	N 43°19'59" W	557.59'
L3	S 43°19'59" E	557.59'	L10	S 49°37'40" E	351.28'	L4	N 46°28'50" W	41.18'
L4	S 46°28'50" E	41.18'	L11	S 46°28'50" E	42.28'	L5	N 49°37'40" W	390.48'
L5	S 49°37'40" E	390.48'	L12	S 43°19'59" E	558.35'	L25	N 43°28'49" W	427.60'
L6	S 43°28'45" E	98.15'	L13	S 42°06'25" E	934.59'	L26	N 42°06'25" W	471.59'
L7	S 08°48'05" W	27.73'	L14	N 43°40'39" W	39.99'	L27	N 43°19'59" W	557.21'
L8	N 43°30'22" W	112.51'	L15	S 81°14'31" E	31.55'	L28	S 46°28'50" E	40.63'
L9	N 46°34'01" W	40.05'				L29	N 49°37'40" W	297.38'
L10	N 49°37'40" W	351.28'				L30	S 43°28'44" E	93.36'
L11	N 46°28'50" W	42.28'						
L12	N 43°19'59" W	558.35'						
L13	N 42°06'25" W	934.59'						
L14	N 43°40'39" W	39.99'						
L15	S 81°14'31" E	31.55'						



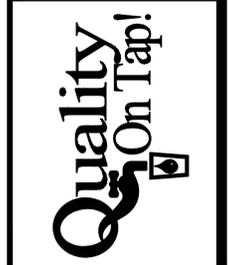
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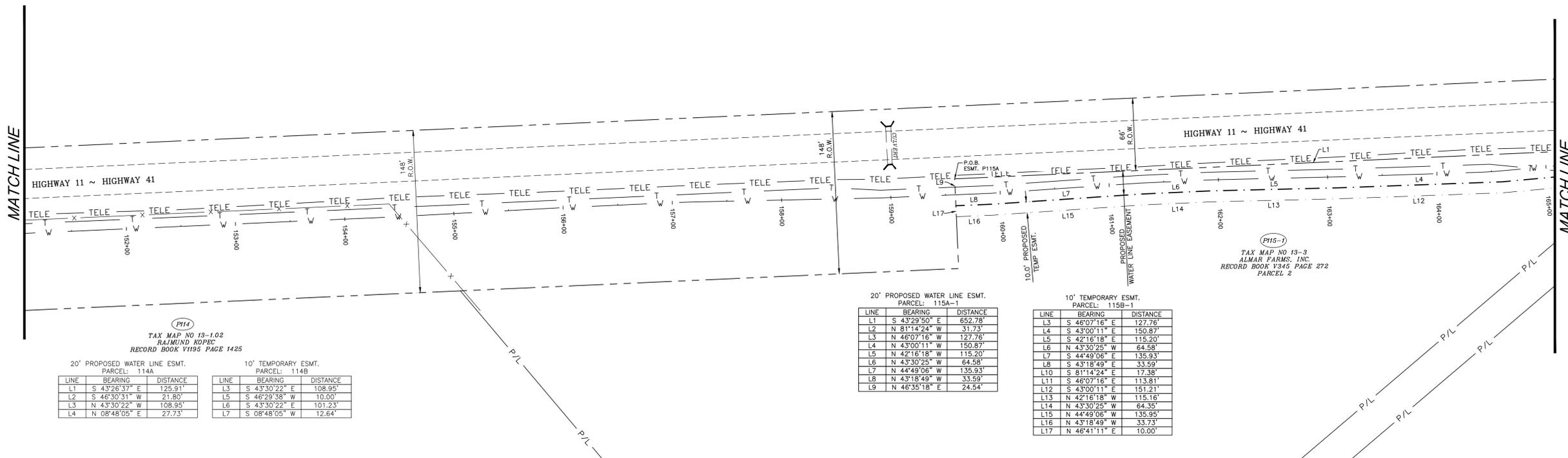


DRAWING NO.  
SHEET 4

**LEGEND**

SYMBOLS THAT MAY APPEAR ON DRAWING

- RIGHT OF WAY
- PROPERTY LINE
- ADJOINING PROPERTY LINE
- EXISTING EASEMENT
- EDGE OF PAVEMENT
- EXISTING OVERHEAD WIRES
- EXISTING UNDERGROUND ELECTRICAL LINE
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- EXISTING SANITARY SEWER
- EXISTING GASLINE
- EXISTING FENCE
- EXISTING RAILROAD
- EXISTING TREE LINE
- F.M. EXISTING FIRE HYDRANT
- WATER VALVE
- WATER METER
- GAS METER
- EXISTING POWER POLE
- EXISTING LIGHT POLE (2 LIGHTS)
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- DROP BOX INLET (DBI)
- EXISTING TRANSFORMER PAD
- TELEPHONE PEDESTAL
- EXISTING TREE
- SPRINKLER HEAD
- EXISTING SIGN
- ELECTRIC JUNCTION BOX
- EXISTING GUIDE WIRE



**P114**  
TAX MAP NO 13-1.02  
ALMAY FARMS, INC.  
RECORD BOOK V345 PAGE 1425

20' PROPOSED WATER LINE ESMT. PARCEL: 114A

LINE	BEARING	DISTANCE
L1	S 43°26'37" E	125.91'
L2	S 46°30'31" W	21.80'
L3	N 43°30'22" W	108.95'
L4	N 08°48'05" E	27.73'

10' TEMPORARY ESMT. PARCEL: 114B

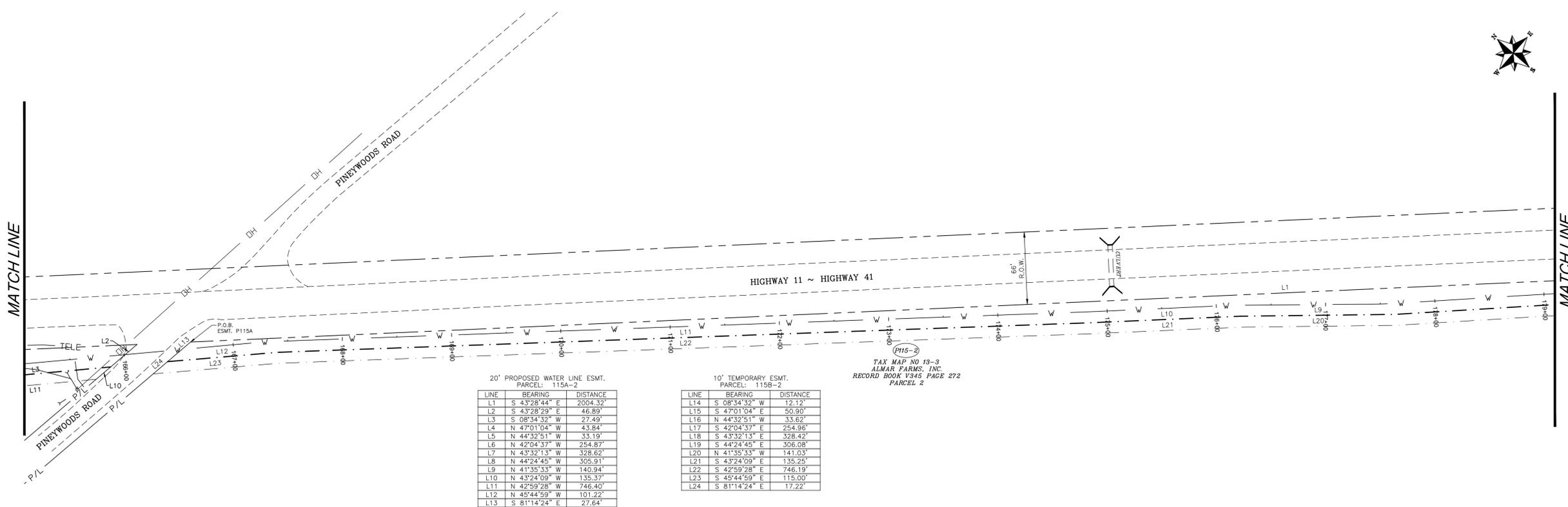
LINE	BEARING	DISTANCE
L1	S 43°30'22" E	108.95'
L2	S 46°29'38" W	10.00'
L3	S 43°30'22" E	101.23'
L4	S 08°48'05" W	12.64'

20' PROPOSED WATER LINE ESMT. PARCEL: 115A-1

LINE	BEARING	DISTANCE
L1	S 43°28'50" E	652.78'
L2	N 81°14'24" W	31.73'
L3	N 46°07'16" W	127.76'
L4	N 43°00'11" W	150.87'
L5	N 42°16'18" W	115.20'
L6	N 43°30'25" W	64.58'
L7	S 44°49'06" E	135.93'
L8	S 43°18'49" W	33.59'
L9	N 44°49'06" E	17.38'
L10	S 81°14'24" E	17.38'
L11	S 46°07'16" E	113.81'
L12	S 43°00'11" E	151.21'
L13	N 42°16'18" W	115.16'
L14	N 43°30'25" W	64.35'
L15	N 44°49'06" W	135.95'
L16	N 43°18'49" W	33.73'
L17	N 46°41'11" E	10.00'

10' TEMPORARY ESMT. PARCEL: 115B-1

LINE	BEARING	DISTANCE
L1	S 46°07'16" E	127.76'
L2	S 43°00'11" E	150.87'
L3	S 42°16'18" E	115.20'
L4	N 43°30'25" W	64.58'
L5	S 44°49'06" E	135.93'
L6	S 43°18'49" E	33.59'
L7	S 81°14'24" E	17.38'
L8	S 46°07'16" E	113.81'
L9	S 43°00'11" E	151.21'
L10	N 42°16'18" W	115.16'
L11	N 43°30'25" W	64.35'
L12	N 44°49'06" W	135.95'
L13	N 43°18'49" W	33.73'
L14	N 46°41'11" E	10.00'



20' PROPOSED WATER LINE ESMT. PARCEL: 115A-2

LINE	BEARING	DISTANCE
L1	S 43°28'44" E	2004.32'
L2	S 43°28'29" E	46.89'
L3	S 08°34'52" W	27.49'
L4	N 47°01'04" W	43.84'
L5	N 44°32'51" W	33.19'
L6	N 42°04'37" W	254.87'
L7	N 43°52'13" W	328.62'
L8	N 44°24'45" W	305.91'
L9	N 41°35'33" W	140.94'
L10	N 43°24'09" W	135.37'
L11	N 42°59'28" W	746.40'
L12	N 45°44'59" W	101.22'
L13	S 81°14'24" E	27.64'

10' TEMPORARY ESMT. PARCEL: 115B-2

LINE	BEARING	DISTANCE
L14	S 08°34'52" W	12.12'
L15	S 47°01'04" E	50.90'
L16	N 44°32'51" W	33.62'
L17	S 42°04'37" E	254.96'
L18	S 43°32'13" E	328.42'
L19	S 44°24'45" E	306.08'
L20	N 41°35'33" W	141.03'
L21	S 43°24'09" W	135.25'
L22	S 42°59'28" E	746.19'
L23	S 45°44'59" E	115.00'
L24	S 81°14'24" E	17.22'



P-12



SCALE:  
1" = 50' (H)  
1" = 5' (V)

NO.	REVISION	DATE	BY
1	FOR KODW REVIEW	09-02-11	CWW

**LTRWC**  
Logan Todd  
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65 Aberdeen Drive  
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(270) 651-7220

FIRM: McGhee  
DES BY: MWM  
CHK BY: ETH  
DWN BY: CWW  
APP BY:  
PROJECT DATE: 2015  
SCALE: AS SHOWN  
PRINTED:  
LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING

P-13



Logan Todd Regional  
Water Commission  
**WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)**  
Water Line: Plan & Profile

**Quality On Tap!**

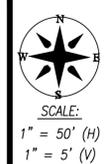
DRAWING NO.  
SHEET **5**

**LEGEND**

SYMBOLS THAT MAY APPEAR ON DRAWING

- RIGHT OF WAY
- PROPERTY LINE
- ADJOINING PROPERTY LINE
- EXISTING EASEMENT
- EDGE OF PAVEMENT
- EXISTING OVERHEAD WIRES
- EXISTING UNDERGROUND ELECTRICAL LINE
- EXISTING WATER LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING SANITARY SEWER
- EXISTING GASLINE
- EXISTING FENCE
- EXISTING RAILROAD
- EXISTING TREE LINE
- F.H. EXISTING FIRE HYDRANT
- WATER VALVE
- WATER METER
- GAS METER
- EXISTING POWER POLE
- EXISTING LIGHT POLE (2 LIGHTS)
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- DROP BOX INLET (DBI)
- EXISTING TRANSFORMER PAD
- TELEPHONE PEDESTAL
- EXISTING TREE
- SPRINKLER HEAD
- EXISTING SIGN
- ELECTRIC JUNCTION BOX
- EXISTING GUIDE WIRE

**P-14**



No.	Revision	Date	By
1	FOR R.O.W. REVIEW	09-02-11	CWW

20' PROPOSED WATER LINE ESMT. PARCEL: 115A-2

LINE	BEARING	DISTANCE
L1	S 43°28'44" E	2004.32'
L2	S 43°28'29" E	46.89'
L3	S 08°34'32" W	27.49'
L4	N 47°01'04" W	43.84'
L5	N 44°32'51" W	33.19'
L6	N 42°04'37" W	254.87'
L7	N 43°32'13" W	328.62'
L8	N 44°24'45" W	305.91'
L9	N 41°35'33" W	140.94'
L10	N 43°24'09" W	135.37'
L11	N 42°59'28" W	746.40'
L12	N 45°44'59" W	101.22'
L13	S 81°14'24" E	27.64'

20' PROPOSED WATER LINE ESMT. PARCEL: 115B-2

LINE	BEARING	DISTANCE
L14	S 08°34'32" W	12.12'
L15	S 47°01'04" E	50.90'
L16	N 44°32'51" W	33.62'
L17	S 42°04'37" E	254.96'
L18	S 43°32'13" E	328.42'
L19	S 44°24'45" E	306.08'
L20	N 41°35'33" W	141.03'
L21	S 43°24'09" E	135.25'
L22	S 42°59'28" E	746.19'
L23	S 45°44'59" E	115.00'
L24	S 81°14'24" E	17.22'

20' PROPOSED WATER LINE ESMT. PARCEL: 116A

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	371.72'	53.15'	53.11'	S 35°47'57" E	8°11'35"
C2	371.29'	76.22'	76.08'	S 37°35'00" E	11°45'42"
C3	391.30'	80.33'	80.19'	N 37°35'01" W	11°45'43"
C4	351.72'	117.64'	117.09'	N 41°17'04" W	19°09'49"
C5	370.00'	37.19'	37.17'	N 44°08'18" W	5°45'31"
C6	401.31'	82.38'	82.24'	N 37°35'01" W	11°45'43"
C7	341.73'	114.34'	113.80'	N 41°17'17" W	19°10'13"
C8	360.00'	36.19'	36.17'	N 44°08'16" W	5°45'35"

10' PROPOSED TEMPORARY ESMT. PARCEL: 116B

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	371.72'	53.15'	53.11'	S 35°47'57" E	8°11'35"
C2	371.29'	76.22'	76.08'	S 37°35'00" E	11°45'42"

20' PROPOSED WATER LINE ESMT. PARCEL: 116D

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	371.72'	53.15'	53.11'	S 35°47'57" E	8°11'35"
C2	371.29'	76.22'	76.08'	S 37°35'00" E	11°45'42"

VARIABLE WIDTH PROPOSED TEMPORARY ESMT. PARCEL: 116C

LINE	BEARING	DISTANCE
L2	S 41°19'33" E	183.11'
L3	S 43°28'48" E	137.44'
L4	S 48°06'49" E	29.65'
L5	S 50°23'42" E	17.71'
L6	S 48°57'29" E	24.59'
L25	S 43°28'44" E	392.04'

20' PROPOSED WATER LINE ESMT. PARCEL: 116A

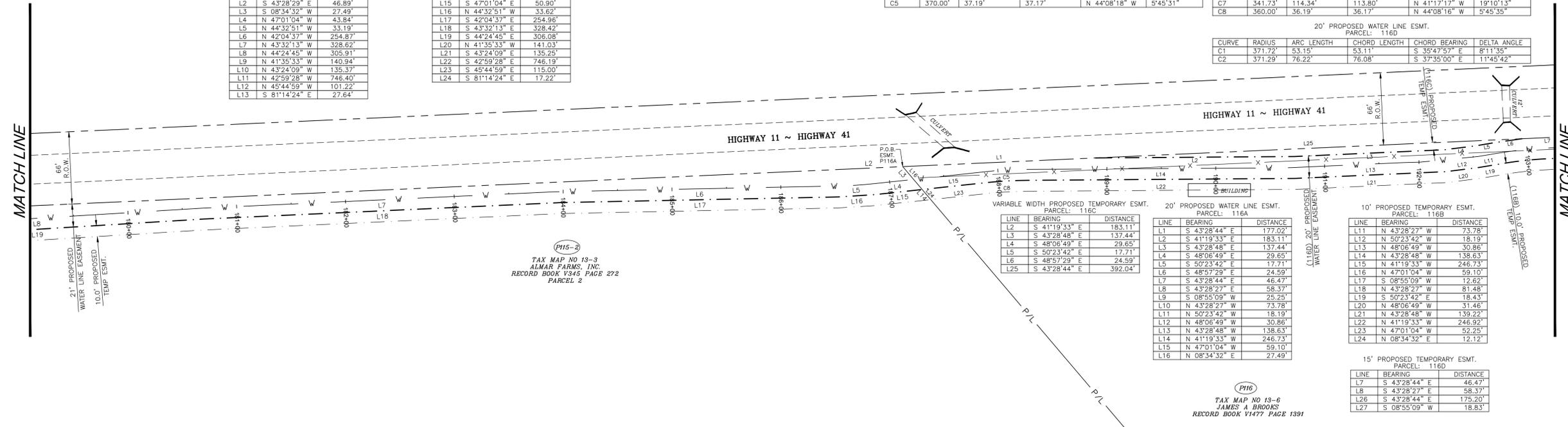
LINE	BEARING	DISTANCE
L1	S 43°28'44" E	177.02'
L2	S 41°19'33" E	183.11'
L3	S 43°28'48" E	137.44'
L4	S 48°06'49" E	29.65'
L5	S 50°23'42" E	17.71'
L6	S 48°57'29" E	24.59'
L7	S 43°28'44" E	46.47'
L8	S 43°28'27" E	58.37'
L9	S 08°55'09" W	25.25'
L10	N 43°28'27" W	73.78'
L11	N 50°23'42" W	18.19'
L12	N 48°06'49" W	30.86'
L13	N 43°28'48" W	138.63'
L14	N 41°19'33" W	246.73'
L15	N 47°01'04" W	59.10'
L16	N 08°34'32" E	27.49'

10' PROPOSED TEMPORARY ESMT. PARCEL: 116B

LINE	BEARING	DISTANCE
L11	N 43°28'27" W	73.78'
L12	N 50°23'42" W	18.19'
L13	N 48°06'49" W	30.86'
L14	N 43°28'48" W	138.63'
L15	N 41°19'33" W	246.73'
L16	N 47°01'04" W	59.10'
L17	S 08°55'09" W	12.62'
L18	N 43°28'27" W	81.48'
L19	S 50°23'42" E	18.43'
L20	N 48°06'49" W	31.46'
L21	N 43°28'48" W	139.22'
L22	N 41°19'33" W	246.92'
L23	N 47°01'04" W	52.25'
L24	N 08°34'32" E	12.12'

15' PROPOSED TEMPORARY ESMT. PARCEL: 116D

LINE	BEARING	DISTANCE
L7	S 43°28'44" E	46.47'
L8	S 43°28'27" E	58.37'
L26	S 43°28'44" E	175.20'
L27	S 08°55'09" W	18.83'



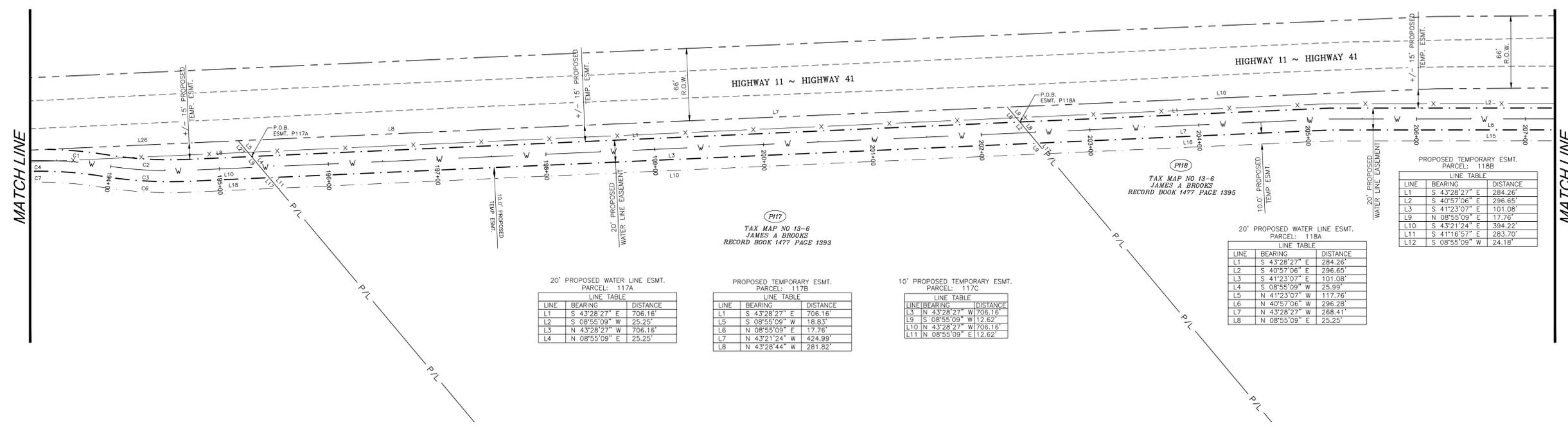
PH15-2  
TAX MAP NO 13-3  
ALMAR FARMS, INC.  
RECORD BOOK V345 PAGE 272  
PARCEL 2

PH16  
TAX MAP NO 13-6  
JAMES A BROOKS  
RECORD BOOK V1477 PAGE 1391

**P-15**



FIRM: McGhee  
DES BY: MWM  
CHK BY: ETH  
DWN BY: CWM  
APP BY:  
SCALE: AS SHOWN  
PROJECT DATE: 2015  
PRINTED:  
LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING



20' PROPOSED WATER LINE ESMT. PARCEL: 117A

LINE	BEARING	DISTANCE
L1	S 43°28'27" E	706.16'
L2	S 08°55'09" W	25.25'
L3	N 43°28'27" W	706.16'
L4	N 08°55'09" E	25.25'

PROPOSED TEMPORARY ESMT. PARCEL: 117B

LINE	BEARING	DISTANCE
L1	S 43°28'27" E	706.16'
L5	S 08°55'09" W	18.83'
L6	N 08°55'09" E	17.76'
L7	N 43°21'24" W	424.99'
L8	N 43°28'44" W	281.82'

10' PROPOSED TEMPORARY ESMT. PARCEL: 117C

LINE	BEARING	DISTANCE
L3	N 43°28'27" W	706.16'
L9	S 08°55'09" W	112.62'
L10	N 43°28'27" W	706.16'
L11	N 08°55'09" E	112.62'

20' PROPOSED WATER LINE ESMT. PARCEL: 118A

LINE	BEARING	DISTANCE
L1	S 43°28'27" E	284.26'
L2	S 40°57'06" E	296.65'
L3	S 41°23'07" E	101.08'
L4	S 08°55'09" W	25.99'
L5	N 41°23'07" W	117.76'
L6	N 40°57'06" W	296.28'
L7	N 43°28'27" W	268.41'
L8	N 08°55'09" E	25.25'

PROPOSED TEMPORARY ESMT. PARCEL: 118B

LINE	BEARING	DISTANCE
L1	S 43°28'27" E	284.26'
L2	S 40°57'06" E	296.65'
L3	S 41°23'07" E	101.08'
L9	N 08°55'09" E	17.76'
L10	S 43°21'24" E	384.22'
L11	S 41°16'57" E	283.70'
L12	S 08°55'09" W	24.18'

PH18  
TAX MAP NO 13-6  
JAMES A BROOKS  
RECORD BOOK 1477 PAGE 1395



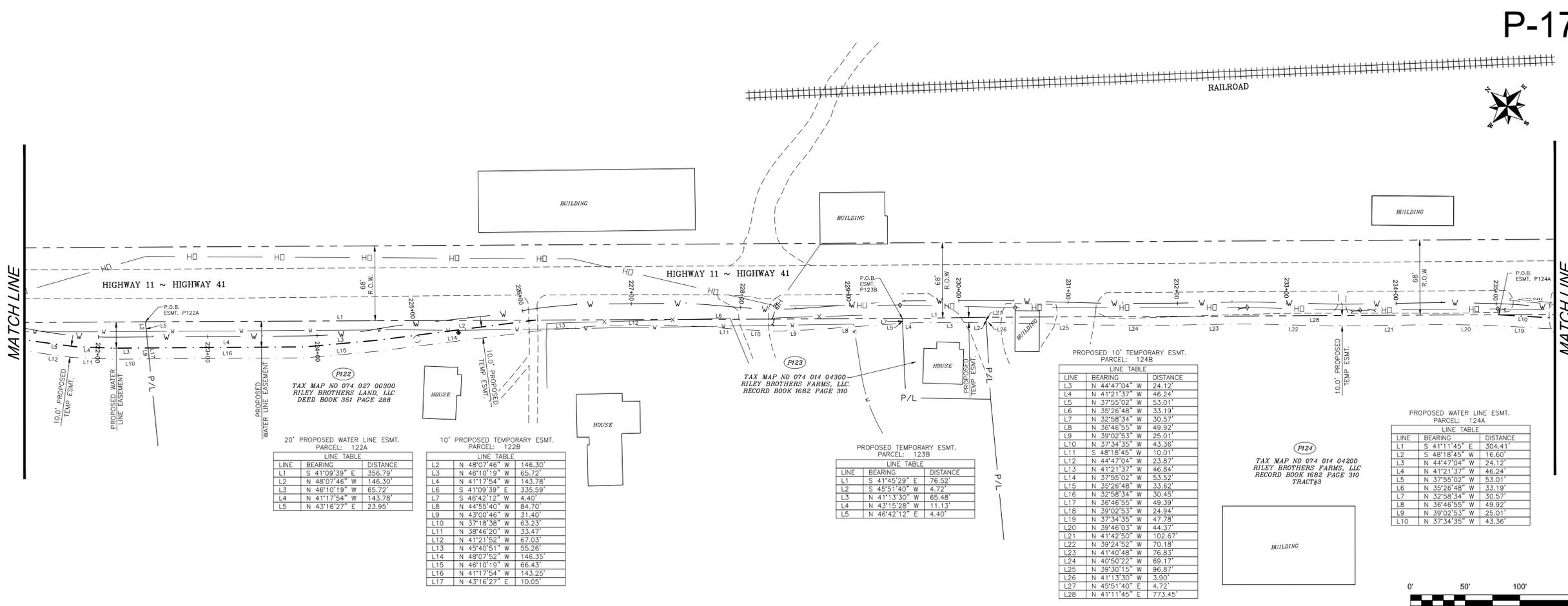
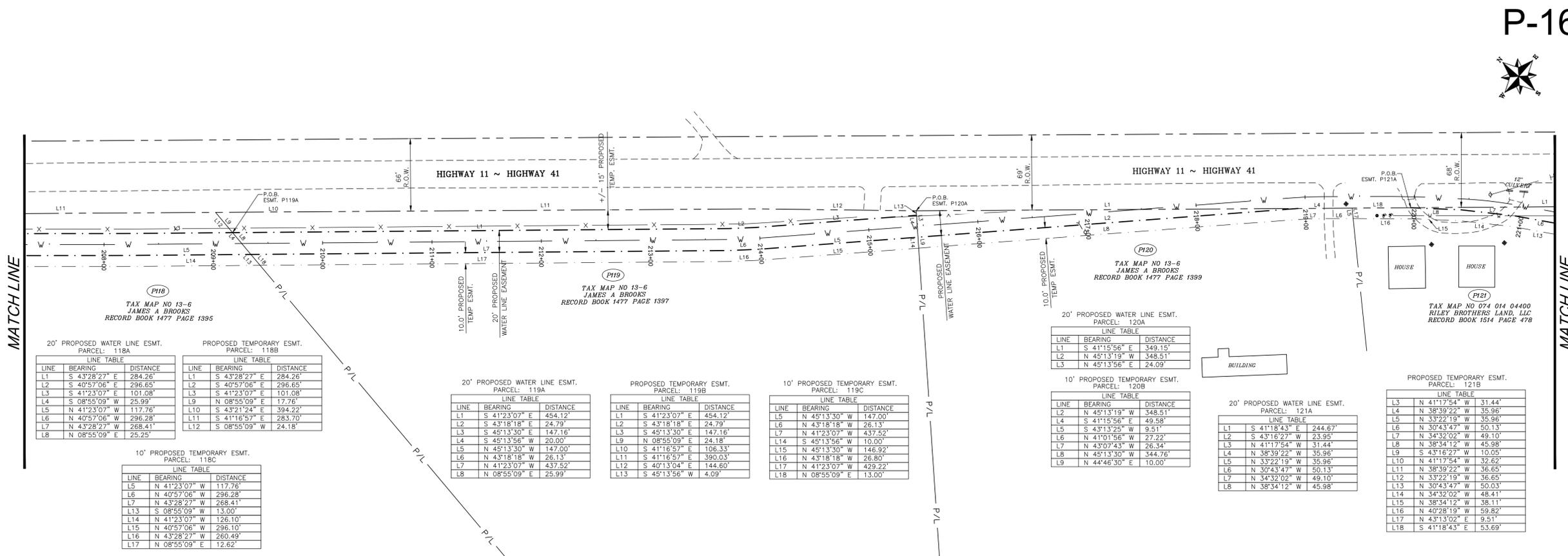
Logan Todd Regional  
Water Commission  
WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)  
Water Line: Plan & Profile



DRAWING NO.  
SHEET **6**

**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY
---	PROPERTY LINE
---	ADJOINING PROPERTY LINE
---	EXISTING EASEMENT
---	EDGE OF PAVEMENT
---	EXISTING OVERHEAD WIRES
---	EXISTING UNDERGROUND ELECTRICAL LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND TELEPHONE LINE
---	EXISTING SANITARY SEWER
---	EXISTING GASLINE
---	EXISTING FENCE
---	EXISTING RAILROAD
---	EXISTING TREE LINE
---	EXISTING FIRE HYDRANT
---	WATER VALVE
---	WATER METER
---	GAS METER
---	EXISTING POWER POLE
---	EXISTING LIGHT POLE (2 LIGHTS)
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING STORM SEWER MANHOLE
---	DROP BOX INLET (DBI)
---	EXISTING TRANSFORMER PAD
---	TELEPHONE PEDESTAL
---	EXISTING TREE
---	SPRINKLER HEAD
---	EXISTING SIGN
---	ELECTRIC JUNCTION BOX
---	EXISTING GUIDE WIRE



**P-16**

SCALE: 1" = 50' (H) 1" = 5' (V)

NO.	REVISION	DATE	BY
1	FOR KODW REVIEW	09-02-11	CWW

Logan Todd Reg. Water Commission

McGhee Engineering

AMERICAN ENGINEERS, INC. PROFESSIONAL ENGINEERING

65 Aberdeen Drive Glasgow, KY 42341 (270) 651-7220

FIRM: McGhee

DES BY: MWM

CHK BY: ETH

DWN BY: CWW

APP BY:

PROJECT DATE: 2015

SCALE: AS SHOWN

PRINTED: LENGTH OF BAR IS 1" ON ORIGINAL DRAWING

Logan Todd Regional Water Commission

**WATER SYSTEM EXPANSION TO SPRINGFIELD (TN)**

Water Line: Plan & Profile

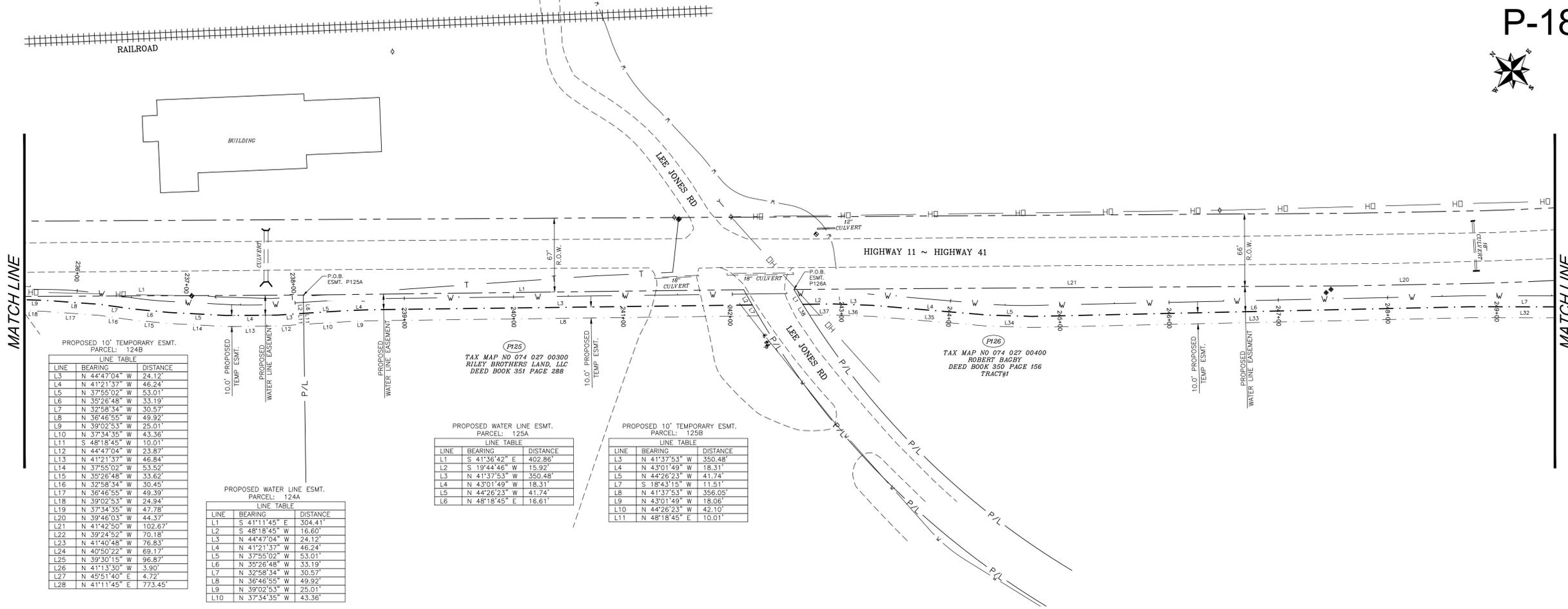
**Quality On Tap!**

DRAWING NO. 7

SHEET

**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY
---	PROPERTY LINE
---	ADJOINING PROPERTY LINE
---	EXISTING EASEMENT
---	EDGE OF PAVEMENT
---	EXISTING OVERHEAD WIRES
---	EXISTING UNDERGROUND ELECTRICAL LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND TELEPHONE LINE
---	EXISTING SANITARY SEWER
---	EXISTING GASLINE
---	EXISTING FENCE
---	EXISTING RAILROAD
---	EXISTING TREE LINE
---	F.H. EXISTING FIRE HYDRANT
---	WATER VALVE
---	WATER METER
---	GAS METER
---	EXISTING POWER POLE
---	EXISTING LIGHT POLE (2 LIGHTS)
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING STORM SEWER MANHOLE
---	DROP BOX INLET (DBI)
---	EXISTING TRANSFORMER PAD
---	TELEPHONE PEDESTAL
---	EXISTING TREE
---	SPRINKLER HEAD
---	EXISTING SIGN
---	ELECTRIC JUNCTION BOX
---	EXISTING GUIDE WIRE



P-18



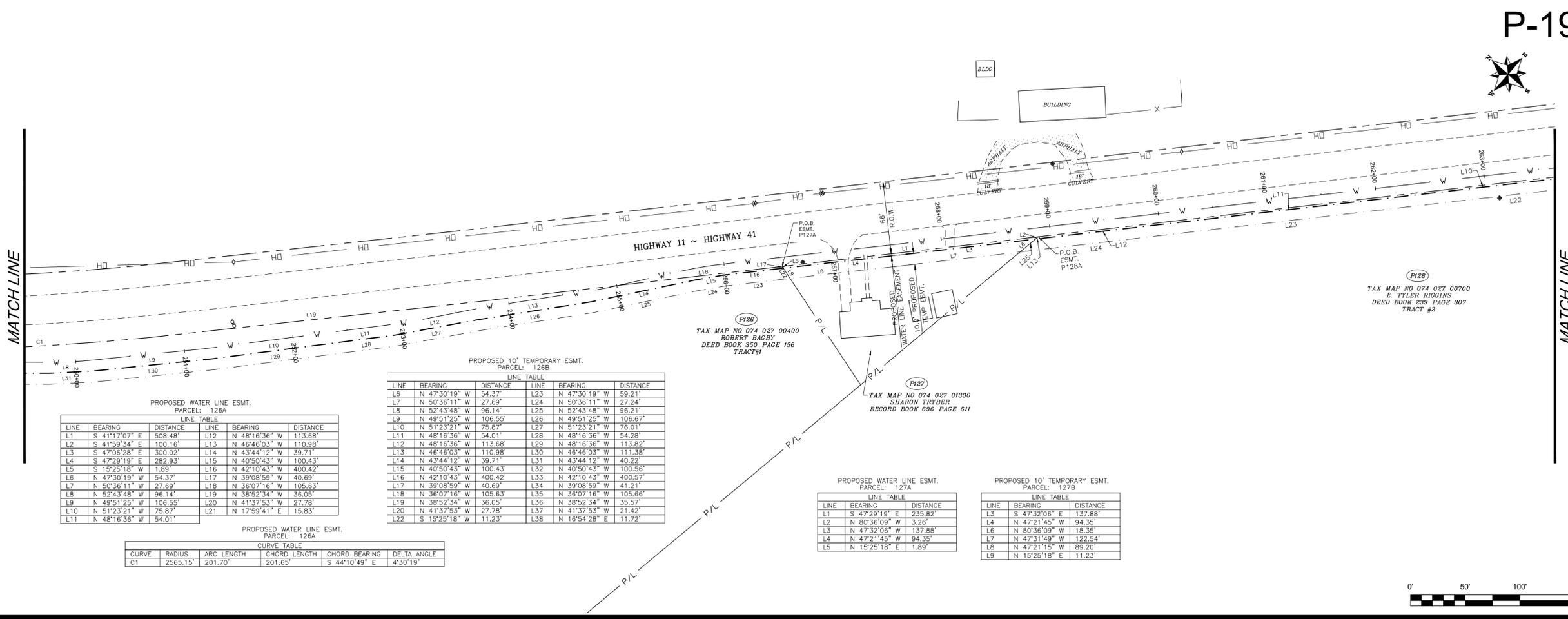
SCALE:  
1" = 50' (H)  
1" = 5' (V)

NO.	REVISION	DATE	BY
1	FOR ROW REVIEW	09-02-11	CWW

**LTRWC**  
Logan Todd  
Reg. Water Commission

**McGhee**  
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202 Ewing Street  
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(270) 483-9985

**ABJ**  
AMERICAN ENGINEERS, INC.  
PROFESSIONAL ENGINEERING  
65 Aberdeen Drive  
Glasgow, KY 42141  
(270) 651-7220



P-19



FIRM: McGhee  
DES BY: MWM  
CHK BY: ETH  
DWN BY: CWW  
APP BY:  
SCALE: AS SHOWN  
PROJECT DATE: 2015  
PRINTED:  
LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING

Logan Todd Regional  
Water Commission  
**WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)**  
Water Line: Plan & Profile

**Quality On Tap!**

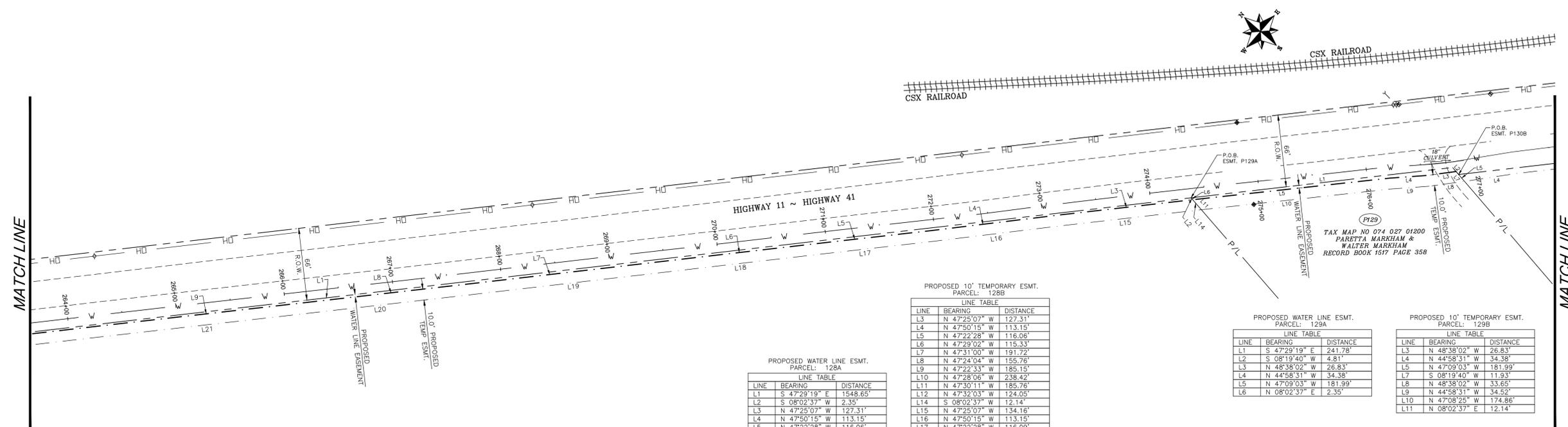
DRAWING NO.  
SHEET **8**



**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY PROPERTY LINE
---	ADJOINING PROPERTY LINE
---	EXISTING EASEMENT
---	EDGE OF PAVEMENT
---	EXISTING OVERHEAD WIRES
---	EXISTING UNDERGROUND ELECTRICAL LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND TELEPHONE LINE
---	EXISTING SANITARY SEWER
---	EXISTING GASLINE
---	EXISTING FENCE
---	EXISTING RAILROAD
---	EXISTING TREE LINE
---	F.H. EXISTING FIRE HYDRANT
---	WATER VALVE
---	WATER METER
---	GAS METER
---	EXISTING POWER POLE
---	EXISTING LIGHT POLE (2 LIGHTS)
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING STORM SEWER MANHOLE
---	DROP BOX INLET (DBI)
---	EXISTING TRANSFORMER PAD
---	TELEPHONE PEDESTAL
---	EXISTING TREE
---	SPRINKLER HEAD
---	EXISTING SIGN
---	ELECTRIC JUNCTION BOX
---	EXISTING GUIDE WIRE

P-20



(P128)  
TAX MAP NO 074 027 00700  
E. TYLER RIGGINS  
DEED BOOK 239 PAGE 307  
TRACT #2

PROPOSED WATER LINE ESMT.  
PARCEL: 128A

LINE	BEARING	DISTANCE
L1	S 47°29'19" E	1548.65'
L2	S 08°02'37" W	2.35'
L3	N 47°25'07" W	127.31'
L4	N 47°50'15" W	113.15'
L5	N 47°22'28" W	116.06'
L6	N 47°29'02" W	115.33'
L7	N 47°31'00" W	191.72'
L8	N 47°24'04" W	155.76'
L9	N 47°22'33" W	185.15'
L10	N 47°28'06" W	238.42'
L11	N 47°30'11" W	185.76'
L12	N 47°32'03" W	124.05'
L13	S 80°36'09" E	3.26'

PROPOSED 10' TEMPORARY ESMT.  
PARCEL: 128B

LINE	BEARING	DISTANCE
L3	N 47°25'07" W	127.31'
L4	N 47°50'15" W	113.15'
L5	N 47°22'28" W	116.06'
L6	N 47°29'02" W	115.33'
L7	N 47°31'00" W	191.72'
L8	N 47°24'04" W	155.76'
L9	N 47°22'33" W	185.15'
L10	N 47°28'06" W	238.42'
L11	N 47°30'11" W	185.76'
L12	N 47°32'03" W	124.05'
L13	S 80°36'09" E	3.26'
L14	S 08°02'37" W	12.14'
L15	N 47°25'07" W	134.16'
L16	N 47°50'15" W	113.15'
L17	N 47°22'28" W	116.09'
L18	N 47°29'02" W	115.32'
L19	N 47°31'00" W	191.73'
L20	N 47°24'04" W	155.78'
L21	N 47°22'33" W	185.14'
L22	N 47°28'06" W	238.41'
L23	N 47°30'11" W	185.76'
L24	N 47°32'19" W	139.42'
L25	S 80°36'10" E	18.35'

PROPOSED WATER LINE ESMT.  
PARCEL: 129A

LINE	BEARING	DISTANCE
L1	S 47°29'19" E	241.78'
L2	S 08°19'40" W	4.81'
L3	N 48°38'02" W	26.83'
L4	N 44°58'31" W	34.38'
L5	N 47°09'03" W	181.99'
L6	N 08°02'37" E	2.35'

PROPOSED 10' TEMPORARY ESMT.  
PARCEL: 129B

LINE	BEARING	DISTANCE
L3	N 48°38'02" W	26.83'
L4	N 44°58'31" W	34.38'
L5	N 47°09'03" W	181.99'
L6	N 08°19'40" W	11.93'
L7	S 08°19'40" W	11.93'
L8	N 48°38'02" W	33.65'
L9	N 44°58'31" W	34.52'
L10	N 47°08'25" W	174.86'
L11	N 08°02'37" E	12.14'

SCALE:  
1" = 50' (H)  
1" = 5' (V)

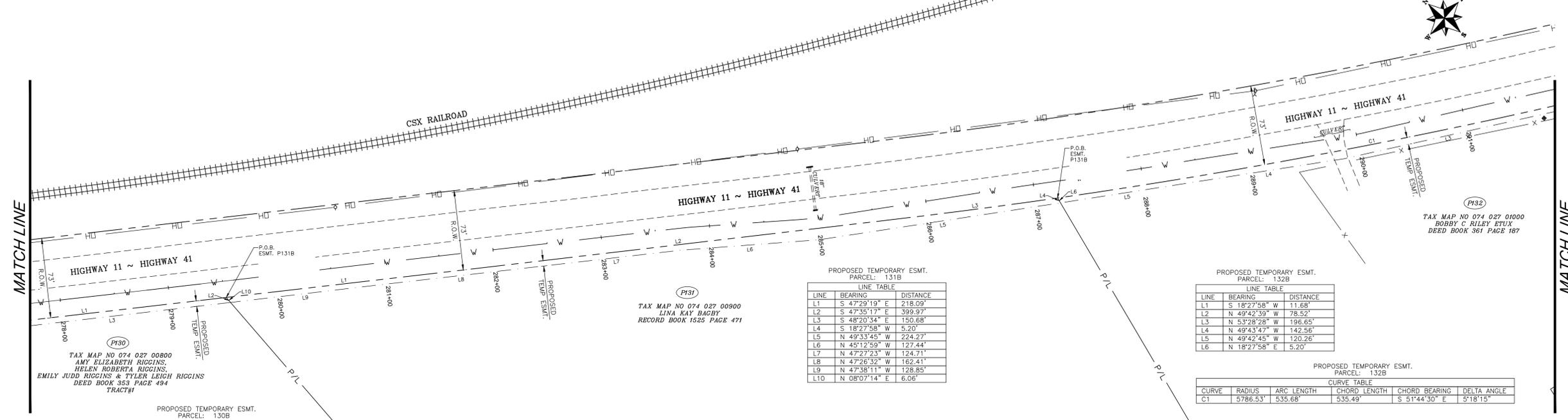
NO.	REVISIONS	DATE	BY
1	FOR KODW REVIEW	09-02-11	CWW

**LTRWC**  
Logan Todd  
Reg. Water Commission  
P.O. Box 400  
Guthrie, KY 42234  
(270) 483-6990

**McGhee**  
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(270) 483-9985

**ABJ**  
AMERICAN ENGINEERS, INC.  
PROFESSIONAL ENGINEERING  
65 Aberdeen Drive  
Glasgow, KY 42141  
(270) 651-7220

P-21



(P130)  
TAX MAP NO 074 027 00800  
AMY ELIZABETH RIGGINS,  
HELEN ROBERTA RIGGINS,  
EMILY JUDD RIGGINS & TYLER LEIGH RIGGINS  
DEED BOOK 353 PAGE 494  
TRACT#1

(P131)  
TAX MAP NO 074 027 00900  
LINA KAY BAGBY  
RECORD BOOK 1525 PAGE 471

PROPOSED TEMPORARY ESMT.  
PARCEL: 130B

LINE	BEARING	DISTANCE
L1	S 47°29'19" E	267.86'
L2	S 08°07'14" W	6.03'
L3	N 47°31'54" W	219.36'
L4	N 49°33'21" W	47.29'
L5	N 08°19'40" E	8.28'

PROPOSED TEMPORARY ESMT.  
PARCEL: 131B

LINE	BEARING	DISTANCE
L1	S 47°29'19" E	218.09'
L2	S 47°35'17" E	399.97'
L3	S 48°20'34" E	150.68'
L4	S 18°27'58" W	5.20'
L5	N 49°33'45" W	224.27'
L6	N 45°12'59" W	127.44'
L7	N 47°27'23" W	124.71'
L8	N 47°26'32" W	162.41'
L9	N 47°38'11" W	128.85'
L10	N 08°07'14" E	6.06'

PROPOSED TEMPORARY ESMT.  
PARCEL: 132B

LINE	BEARING	DISTANCE
L1	S 18°27'58" W	11.68'
L2	N 49°42'39" W	78.52'
L3	N 53°28'28" W	196.65'
L4	N 49°43'47" W	142.56'
L5	N 49°42'45" W	120.26'
L6	N 18°27'58" E	5.20'

PROPOSED TEMPORARY ESMT.  
PARCEL: 132B

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	5786.53'	535.68'	535.49'	S 51°44'30" E	9°18'15"

FIRM: McGhee  
DES BY: MWM  
CHK BY: ETH  
DWN BY: CWW  
APP BY:  
PROJECT DATE: 2015  
SCALE: AS SHOWN  
PRINTED:  
LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING

Logan Todd Regional  
Water Commission  
**WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)**  
Water Line: Plan & Profile

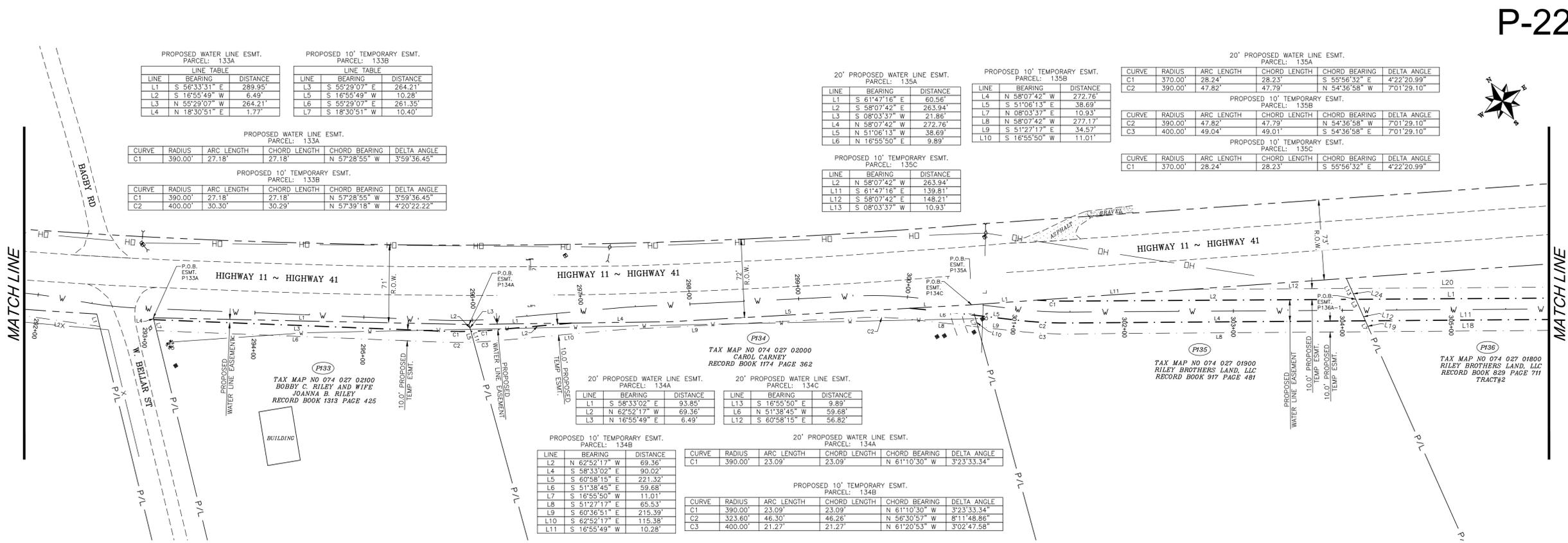
**Quality On Tap!**



**LEGEND**

SYMBOLS THAT MAY APPEAR ON DRAWING

- RIGHT OF WAY
- PROPERTY LINE
- ADJOINING PROPERTY LINE
- EXISTING EASEMENT
- EDGE OF PAVEMENT
- EXISTING OVERHEAD WIRES
- EXISTING UNDERGROUND ELECTRICAL LINE
- EXISTING WATER LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING SANITARY SEWER
- EXISTING GASLINE
- EXISTING FENCE
- EXISTING RAILROAD
- EXISTING TREE LINE
- F.H. EXISTING FIRE HYDRANT
- WATER VALVE
- WATER METER
- GAS METER
- EXISTING POWER POLE
- EXISTING LIGHT POLE (2 LIGHTS)
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- DROP BOX INLET (DBI)
- EXISTING TRANSFORMER PAD
- TELEPHONE PEDESTAL
- EXISTING TREE
- SPRINKLER HEAD
- EXISTING SIGN
- ELECTRIC JUNCTION BOX
- EXISTING GUIDE WIRE



P-22

SCALE:  
1" = 50' (H)  
1" = 5' (V)

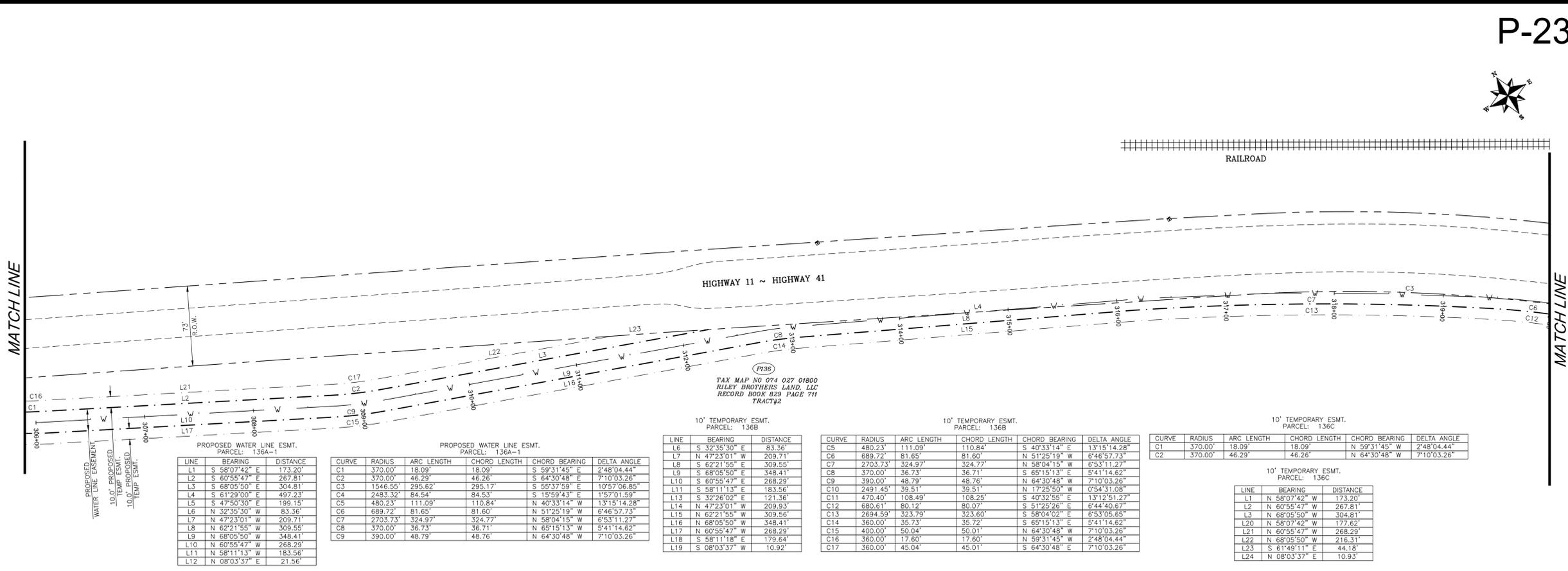
NO.	REVISION	DATE	BY
1	FOR ROW REVIEW	09-02-11	CWW

**LTRWC**  
Logan Todd  
Reg. Water CommissionP.O. Box 400  
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(270) 483-6990

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(270) 651-7220

P-23



FIRM: McGhee  
DES BY: MWM  
CHK BY: ETH  
DWN BY: CWW  
APP BY:  
SCALE: AS SHOWN  
PROJECT DATE: 2015  
PRINTED:  
LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING

Logan Todd Regional  
Water Commission  
**WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)**  
Water Line: Plan & Profile

**Quality On Tap!**

DRAWING NO.  
SHEET **10**

**LEGEND**

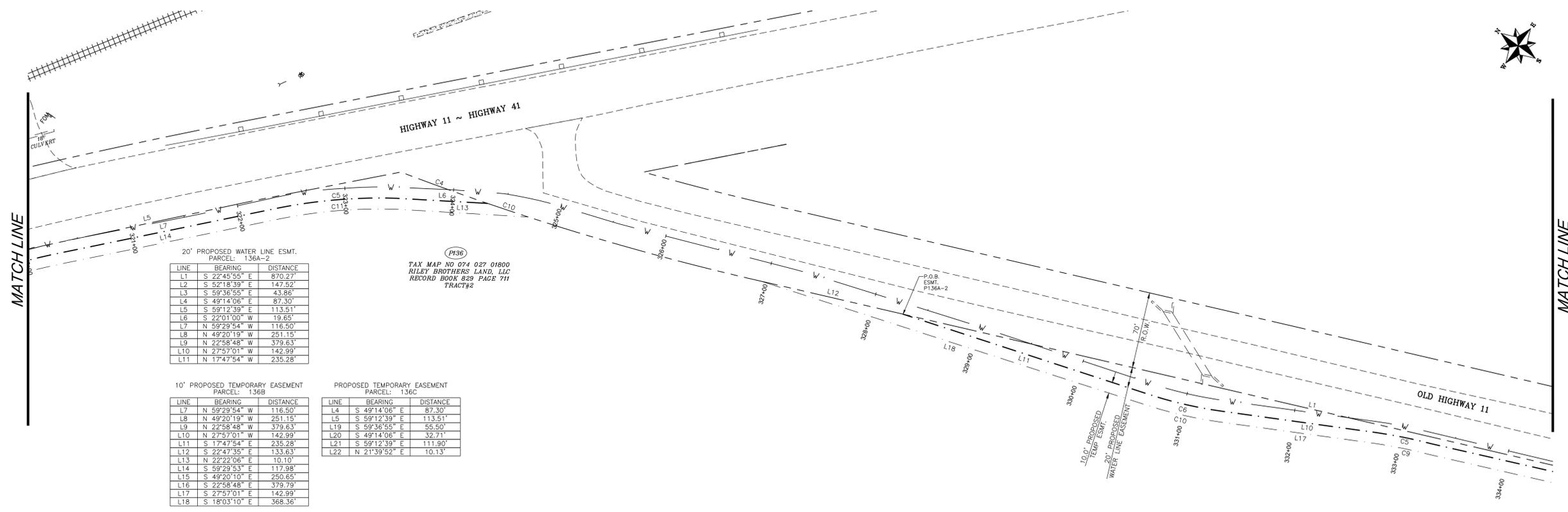
SYMBOLS THAT MAY APPEAR ON DRAWING

- RIGHT OF WAY
- PROPERTY LINE
- ADJOINING PROPERTY LINE
- EXISTING EASEMENT
- EDGE OF PAVEMENT
- EXISTING OVERHEAD WIRES
- EXISTING UNDERGROUND ELECTRICAL LINE
- EXISTING WATER LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING SANITARY SEWER
- EXISTING GASLINE
- EXISTING FENCE
- EXISTING RAILROAD
- EXISTING TREE LINE
- F.H. EXISTING FIRE HYDRANT
- WATER VALVE
- WATER METER
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- EXISTING STORM SEWER MANHOLE
- DROP BOX INLET (DBI)
- EXISTING TRANSFORMER PAD
- TELEPHONE PEDESTAL
- EXISTING TREE
- SPRINKLER HEAD
- EXISTING SIGN
- ELECTRIC JUNCTION BOX
- EXISTING GUIDE WIRE

P-24



SCALE:	1" = 50' (H)	1" = 5' (V)
FOR ROW REVIEW	09-02-11	CWW
Revision	Date	By
No.		
REVISIONS		



20' PROPOSED WATER LINE ESMT.  
PARCEL: 136A-2

LINE	BEARING	DISTANCE
L1	S 22°45'55" E	870.27'
L2	S 52°18'39" E	147.52'
L3	S 59°36'55" E	43.86'
L4	S 49°14'06" E	87.30'
L5	S 59°12'39" E	113.51'
L6	S 22°01'00" W	19.65'
L7	N 59°29'54" W	116.50'
L8	N 49°20'19" W	251.15'
L9	N 22°58'48" W	379.63'
L10	N 27°57'01" W	142.99'
L11	N 17°47'54" W	235.28'

10' PROPOSED TEMPORARY EASEMENT  
PARCEL: 136B

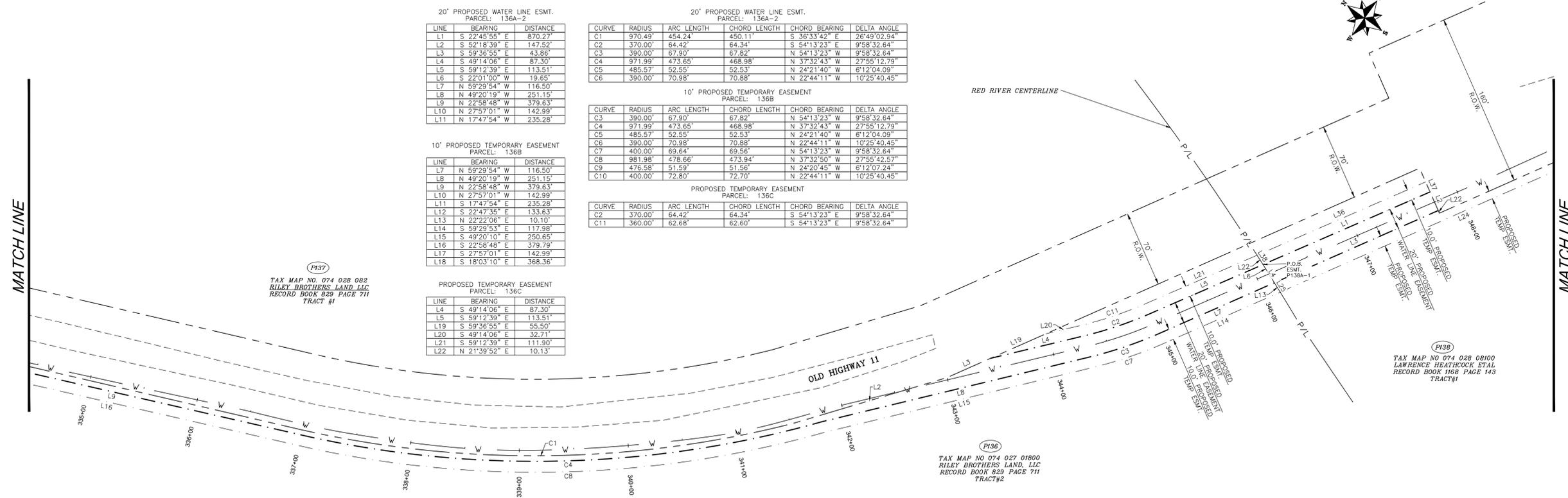
LINE	BEARING	DISTANCE
L7	N 59°29'54" W	116.50'
L8	N 49°20'19" W	251.15'
L9	N 22°58'48" W	379.63'
L10	N 27°57'01" W	142.99'
L11	S 17°47'54" E	235.28'
L12	S 22°47'35" E	133.63'
L13	N 22°22'06" E	10.10'
L14	S 59°29'53" E	117.98'
L15	N 49°20'10" E	250.65'
L16	S 22°58'48" E	379.79'
L17	S 27°57'01" E	142.99'
L18	S 18°03'10" E	368.36'

PROPOSED TEMPORARY EASEMENT  
PARCEL: 136C

LINE	BEARING	DISTANCE
L4	S 49°14'06" E	87.30'
L5	S 59°12'39" E	113.51'
L19	S 59°36'55" E	55.50'
L20	S 49°14'06" E	32.71'
L21	S 59°12'39" E	111.90'
L22	N 21°39'52" E	10.13'

PI36  
TAX MAP NO 074 027 01800  
RILEY BROTHERS LAND, LLC  
RECORD BOOK 829 PAGE 711  
TRACT#2

P-25



20' PROPOSED WATER LINE ESMT.  
PARCEL: 136A-2

LINE	BEARING	DISTANCE
L1	S 22°45'55" E	870.27'
L2	S 52°18'39" E	147.52'
L3	S 59°36'55" E	43.86'
L4	S 49°14'06" E	87.30'
L5	S 59°12'39" E	113.51'
L6	S 22°01'00" W	19.65'
L7	N 59°29'54" W	116.50'
L8	N 49°20'19" W	251.15'
L9	N 22°58'48" W	379.63'
L10	N 27°57'01" W	142.99'
L11	N 17°47'54" W	235.28'

10' PROPOSED TEMPORARY EASEMENT  
PARCEL: 136B

LINE	BEARING	DISTANCE
L7	N 59°29'54" W	116.50'
L8	N 49°20'19" W	251.15'
L9	N 22°58'48" W	379.63'
L10	N 27°57'01" W	142.99'
L11	S 17°47'54" E	235.28'
L12	S 22°47'35" E	133.63'
L13	N 22°22'06" E	10.10'
L14	S 59°29'53" E	117.98'
L15	N 49°20'10" E	250.65'
L16	S 22°58'48" E	379.79'
L17	S 27°57'01" E	142.99'
L18	S 18°03'10" E	368.36'

PROPOSED TEMPORARY EASEMENT  
PARCEL: 136C

LINE	BEARING	DISTANCE
L4	S 49°14'06" E	87.30'
L5	S 59°12'39" E	113.51'
L19	S 59°36'55" E	55.50'
L20	S 49°14'06" E	32.71'
L21	S 59°12'39" E	111.90'
L22	N 21°39'52" E	10.13'

20' PROPOSED WATER LINE ESMT.  
PARCEL: 136A-2

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	970.49'	454.24'	450.11'	S 36°33'42" E	26°49'02.94"
C2	370.00'	64.42'	64.34'	S 54°13'23" E	9°58'32.64"
C3	390.00'	67.90'	67.82'	N 54°13'23" W	9°58'32.64"
C4	971.99'	473.65'	468.98'	N 37°32'43" W	27°55'12.79"
C5	485.57'	52.55'	52.53'	N 24°21'40" W	6°12'04.09"
C6	390.00'	70.98'	70.88'	N 22°44'11" W	10°25'40.45"

10' PROPOSED TEMPORARY EASEMENT  
PARCEL: 136B

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C3	390.00'	67.90'	67.82'	N 54°13'23" W	9°58'32.64"
C4	971.99'	473.65'	468.98'	N 37°32'43" W	27°55'12.79"
C5	485.57'	52.55'	52.53'	N 24°21'40" W	6°12'04.09"
C6	390.00'	70.98'	70.88'	N 22°44'11" W	10°25'40.45"
C7	400.00'	69.64'	69.56'	N 54°13'23" W	9°58'32.64"
C8	981.98'	478.66'	473.94'	N 37°32'50" W	27°55'42.57"
C9	476.58'	51.59'	51.56'	N 24°20'45" W	6°12'07.24"
C10	400.00'	72.80'	72.70'	N 22°44'11" W	10°25'40.45"

PROPOSED TEMPORARY EASEMENT  
PARCEL: 136C

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C2	370.00'	64.42'	64.34'	S 54°13'23" E	9°58'32.64"
C11	360.00'	62.68'	62.60'	S 54°13'23" E	9°58'32.64"

PI37  
TAX MAP NO. 074 028 082  
RILEY BROTHERS LAND LLC  
RECORD BOOK 829 PAGE 711  
TRACT #1

PI36  
TAX MAP NO 074 027 01800  
RILEY BROTHERS LAND, LLC  
RECORD BOOK 829 PAGE 711  
TRACT#2

PI38  
TAX MAP NO 074 028 08100  
LAWRENCE HEATHCOCK ETAL  
RECORD BOOK 1168 PAGE 143  
TRACT#1



FIRM: McGhee  
DES BY: MWM  
CHK BY: ETH  
DWN BY: CWW  
APP BY:  
PROJECT: AS SHOWN  
SCALE: AS SHOWN  
PROJECT DATE: 2015  
PRINTED:  
LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING

Logan Todd Regional  
Water Commission  
WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)  
Water Line: Plan & Profile



DRAWING NO.  
SHEET 11

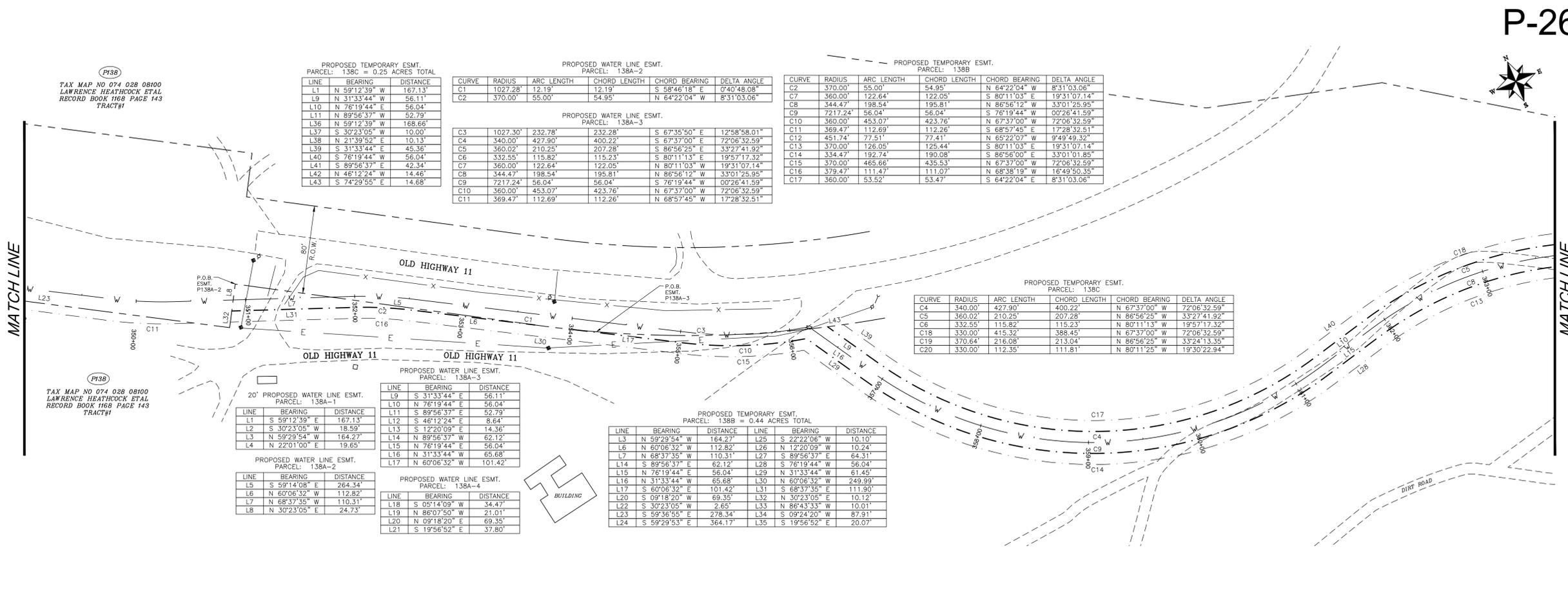
LTRWC  
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Reg. Water Commission  
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(270) 483-6990

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AMERICAN ENGINEERS, INC.  
PROFESSIONAL ENGINEERING  
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Glasgow, KY 42141  
(270) 651-7220

**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY
---	PROPERTY LINE
---	ADJOINING PROPERTY LINE
---	EXISTING EASEMENT
---	EDGE OF PAVEMENT
---	EXISTING OVERHEAD WIRES
---	EXISTING UNDERGROUND ELECTRICAL LINE
---	EXISTING WATER LINE
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---	EXISTING GASLINE
---	EXISTING FENCE
---	EXISTING RAILROAD
---	EXISTING TREE LINE
---	F.H. EXISTING FIRE HYDRANT
---	WATER VALVE
---	WATER METER
---	GAS METER
---	EXISTING POWER POLE
---	EXISTING LIGHT POLE (2 LIGHTS)
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING STORM SEWER MANHOLE
---	DROP BOX (INLET) (DB)
---	EXISTING TRANSFORMER PAD
---	TELEPHONE PEDESTAL
---	EXISTING TREE
---	SPRINKLER HEAD
---	EXISTING SIGN
---	ELECTRIC JUNCTION BOX
---	EXISTING GUIDE WIRE



**P-26**

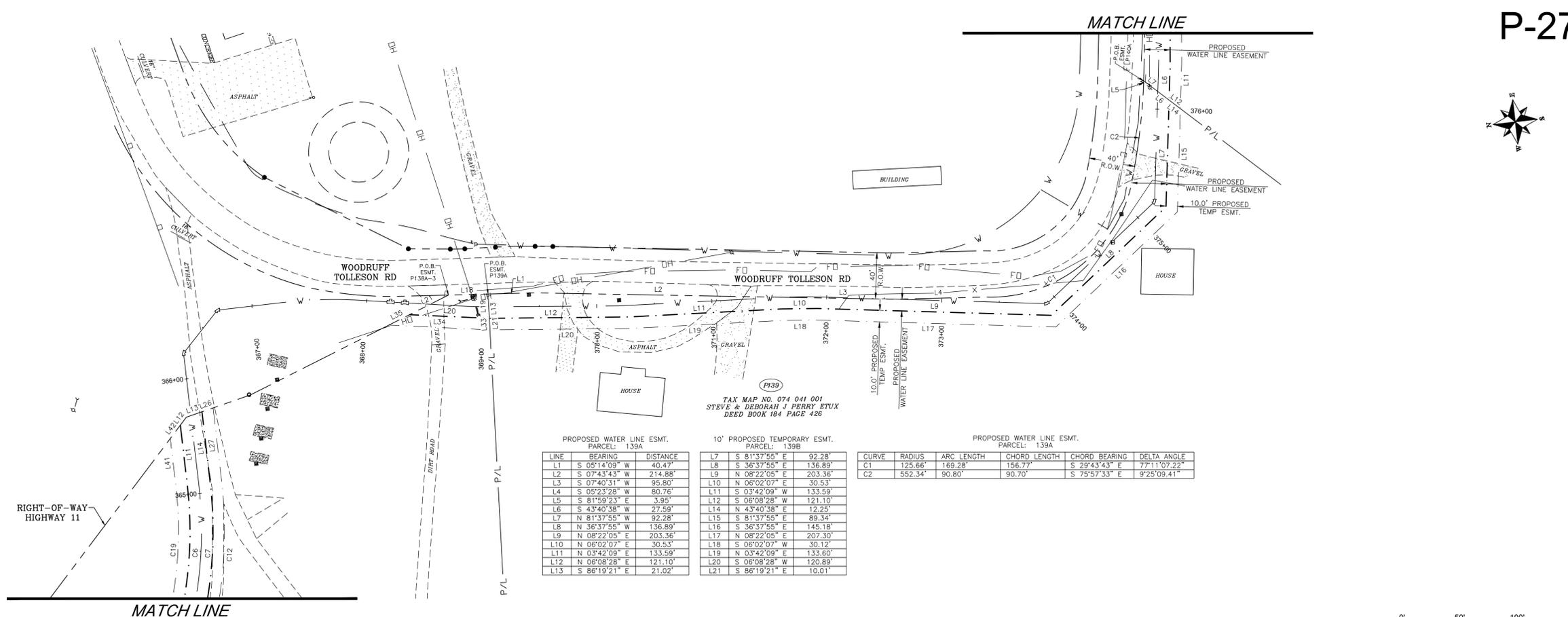
SCALE: 1" = 50' (H)  
1" = 5' (V)

NO.	REVISION	DATE	BY
1	FOR ROW REVIEW	09-02-11	CWW

Logan Todd Regional Water Commission  
P.O. Box 400  
Guthrie, KY 42234  
(270) 483-6990

McGhee Engineering  
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**P-27**

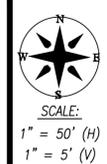
SCALE: 1" = 50' (H)  
1" = 5' (V)

Logan Todd Regional Water Commission  
WATER SYSTEM EXPANSION TO SPRINGFIELD (TN)  
Water Line: Plan & Profile

DES BY: MMW  
CHK BY: ETH  
DWN BY: CWW  
APP BY:  
PROJECT: AS SHOWN  
SCALE: AS SHOWN  
PRINTED DATE: 2015  
PRINTED: [ ]  
LENGTH OF BAR IS 1" ON ORIGINAL DRAWING

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(270) 651-7220

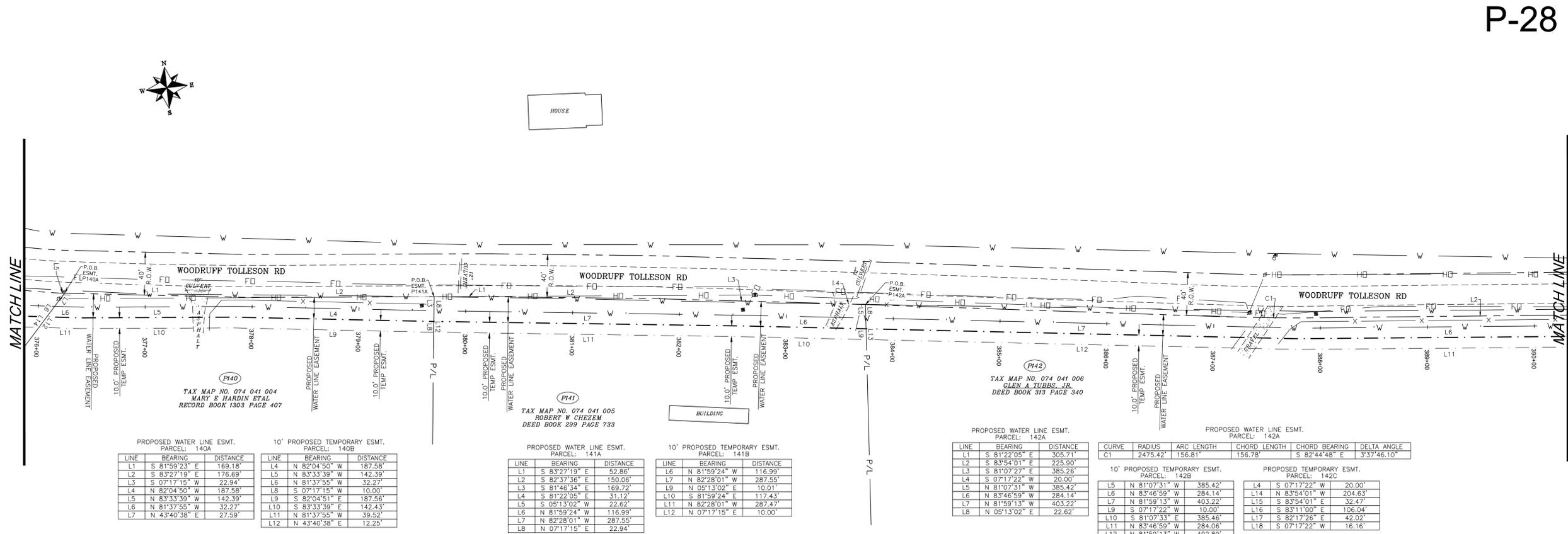
DRAWING NO. 12  
SHEET



NO.	REVISION	DATE	BY
1	FOR KODW REVIEW	09-02-11	CWW

**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

- RIGHT OF WAY
- PROPERTY LINE
- ADJOINING PROPERTY LINE
- EXISTING EASEMENT
- EDGE OF PAVEMENT
- EXISTING OVERHEAD WIRES
- EXISTING UNDERGROUND ELECTRICAL LINE
- EXISTING WATER LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING SANITARY SEWER
- EXISTING GAS LINE
- EXISTING FENCE
- EXISTING RAILROAD
- EXISTING TREE LINE
- F.H. EXISTING FIRE HYDRANT
- WATER VALVE
- WATER METER
- GAS METER
- EXISTING POWER POLE
- EXISTING LIGHT POLE (2 LIGHTS)
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- DROP BOX INLET (DBI)
- EXISTING TRANSFORMER PAD
- TELEPHONE PEDESTAL
- EXISTING TREE
- SPRINKLER HEAD
- EXISTING SIGN
- ELECTRIC JUNCTION BOX
- EXISTING GUIDE WIRE



PROPOSED WATER LINE ESMT. PARCEL: 140A

LINE	BEARING	DISTANCE
L1	S 81°59'23" E	169.18'
L2	S 83°27'19" E	176.69'
L3	S 07°17'15" W	22.94'
L4	N 82°04'50" W	187.58'
L5	N 83°33'39" W	142.39'
L6	N 81°37'55" W	32.27'
L7	N 43°40'38" E	27.59'

10' PROPOSED TEMPORARY ESMT. PARCEL: 140B

LINE	BEARING	DISTANCE
L4	N 82°04'50" W	187.58'
L5	N 83°33'39" W	142.39'
L6	N 81°37'55" W	32.27'
L8	S 07°17'15" W	10.00'
L9	S 82°04'51" E	187.56'
L10	S 83°33'39" E	142.43'
L11	N 81°37'55" W	39.52'
L12	N 43°40'38" E	12.25'

PROPOSED WATER LINE ESMT. PARCEL: 141A

LINE	BEARING	DISTANCE
L1	S 83°27'19" E	52.86'
L2	S 82°37'36" E	150.06'
L3	S 81°48'34" E	169.72'
L4	S 81°22'05" E	31.12'
L5	S 05°13'02" W	22.62'
L6	N 81°59'24" W	116.99'
L7	N 82°28'01" W	287.47'
L8	N 07°17'15" E	22.94'

10' PROPOSED TEMPORARY ESMT. PARCEL: 141B

LINE	BEARING	DISTANCE
L6	N 81°59'24" W	116.99'
L7	N 82°28'01" W	287.55'
L9	N 05°13'02" E	10.01'
L10	S 81°59'24" E	31.12'
L11	N 82°28'01" W	287.47'
L12	N 07°17'15" E	10.00'

PROPOSED WATER LINE ESMT. PARCEL: 142A

LINE	BEARING	DISTANCE
L1	S 81°22'05" E	305.71'
L2	S 83°54'01" E	225.90'
L3	S 81°07'27" E	385.26'
L4	S 07°17'22" W	20.00'
L5	N 81°07'31" W	385.42'
L6	N 83°46'59" W	284.14'
L7	N 81°59'13" W	403.22'
L8	N 05°13'02" E	22.62'

10' PROPOSED TEMPORARY ESMT. PARCEL: 142B

LINE	BEARING	DISTANCE
L5	N 81°07'31" W	385.42'
L6	N 83°46'59" W	284.14'
L7	N 81°59'13" W	403.22'
L9	S 07°17'22" W	10.00'
L10	S 81°07'33" E	385.46'
L11	N 83°46'59" W	284.06'
L12	N 81°59'13" W	402.89'
L13	S 05°13'02" W	10.01'

PROPOSED WATER LINE ESMT. PARCEL: 142A

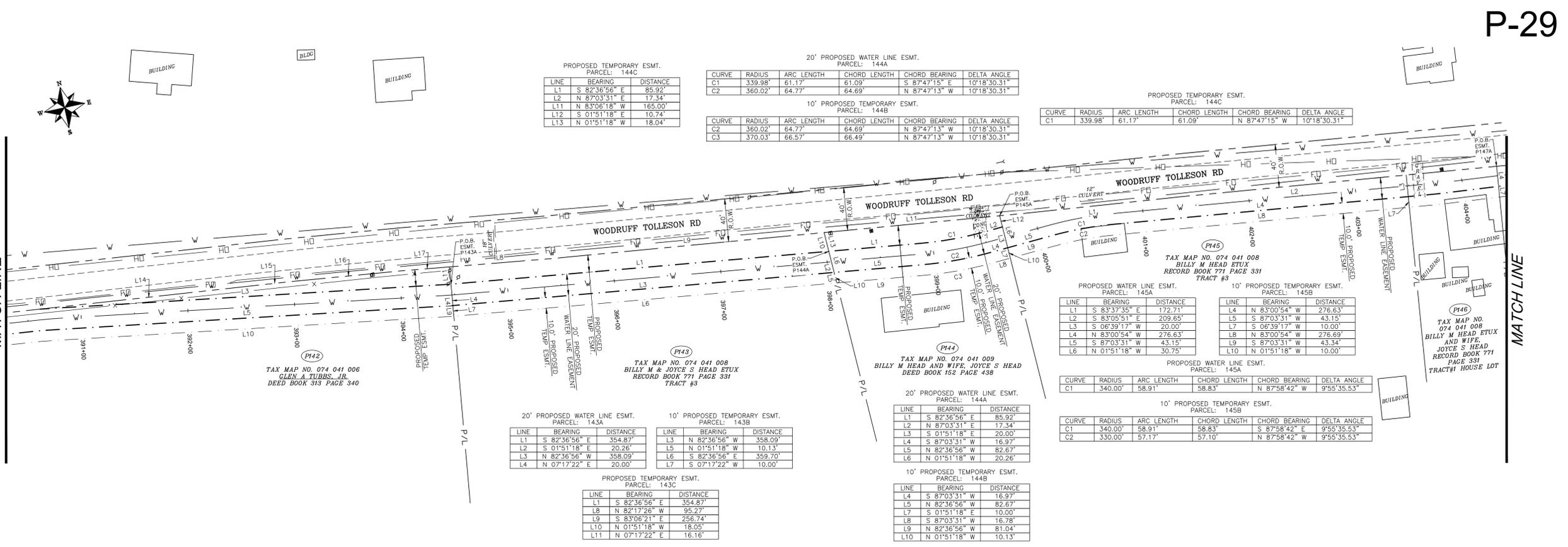
CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	2475.42'	156.81'	156.78'	S 82°44'48" E	3°37'46.10"

PROPOSED TEMPORARY ESMT. PARCEL: 142C

LINE	BEARING	DISTANCE
L4	S 07°17'22" W	20.00'
L14	N 83°54'01" W	204.63'
L15	S 83°54'01" E	32.47'
L16	S 83°11'00" E	106.04'
L17	S 82°17'26" E	42.02'
L18	S 07°17'22" W	16.16'



FIRM: McGhee  
DES BY: MWM  
CHK BY: ETH  
DWN BY: CWW  
SCALE: AS SHOWN  
PROJECT DATE: 2015  
PRINTED: ON ORIGINAL DRAWING  
LENGTH OF BAR IS 1" ON ORIGINAL DRAWING



PROPOSED TEMPORARY ESMT. PARCEL: 144C

LINE	BEARING	DISTANCE
L1	S 82°36'56" E	85.92'
L2	N 87°03'31" E	17.34'
L11	N 83°06'18" W	165.00'
L12	S 01°51'18" E	10.74'
L13	N 01°51'18" W	18.04'

20' PROPOSED WATER LINE ESMT. PARCEL: 144A

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	339.98'	61.17'	61.09'	S 87°47'15" E	10°18'30.31"
C2	360.02'	64.77'	64.69'	N 87°47'13" W	10°18'30.31"

10' PROPOSED TEMPORARY ESMT. PARCEL: 144B

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C2	360.02'	64.77'	64.69'	N 87°47'13" W	10°18'30.31"
C3	370.03'	66.57'	66.49'	N 87°47'13" W	10°18'30.31"

PROPOSED TEMPORARY ESMT. PARCEL: 144C

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	339.98'	61.17'	61.09'	N 87°47'15" W	10°18'30.31"

PROPOSED WATER LINE ESMT. PARCEL: 145A

LINE	BEARING	DISTANCE
L1	S 83°37'35" E	172.71'
L2	S 83°05'51" E	209.65'
L3	S 06°39'17" W	20.00'
L4	N 83°00'54" W	276.63'
L5	S 87°03'31" W	43.15'
L6	N 01°51'18" W	30.75'

10' PROPOSED TEMPORARY ESMT. PARCEL: 145B

LINE	BEARING	DISTANCE
L4	N 83°00'54" W	276.63'
L5	S 87°03'31" W	43.15'
L7	S 06°39'17" W	10.00'
L8	N 83°00'54" W	276.69'
L9	S 87°03'31" W	43.34'
L10	N 01°51'18" W	10.00'

PROPOSED WATER LINE ESMT. PARCEL: 145A

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	340.00'	58.91'	58.83'	N 87°58'42" W	9°55'35.53"

10' PROPOSED TEMPORARY ESMT. PARCEL: 145B

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	340.00'	58.91'	58.83'	S 87°58'42" E	9°55'35.53"
C2	330.00'	57.17'	57.10'	N 87°58'42" W	9°55'35.53"

20' PROPOSED WATER LINE ESMT. PARCEL: 143A

LINE	BEARING	DISTANCE
L1	S 82°36'56" E	354.87'
L2	S 01°51'18" E	20.26'
L3	N 82°36'56" W	358.09'
L4	N 07°17'22" E	20.00'

10' PROPOSED TEMPORARY ESMT. PARCEL: 143B

LINE	BEARING	DISTANCE
L3	N 82°36'56" W	358.09'
L5	N 01°51'18" W	10.13'
L6	S 82°36'56" E	359.70'
L7	S 07°17'22" W	10.00'

PROPOSED TEMPORARY ESMT. PARCEL: 143C

LINE	BEARING	DISTANCE
L1	S 82°36'56" E	354.87'
L8	N 82°17'26" W	95.27'
L9	S 83°06'21" E	256.74'
L10	N 01°51'18" W	18.03'
L11	N 07°17'22" E	16.16'

10' PROPOSED TEMPORARY ESMT. PARCEL: 144B

LINE	BEARING	DISTANCE
L4	S 87°03'31" W	16.97'
L5	N 82°36'56" W	82.67'
L7	S 01°51'18" E	10.00'
L8	S 87°03'31" W	16.78'
L9	N 82°36'56" W	81.04'
L10	N 01°51'18" W	10.13'

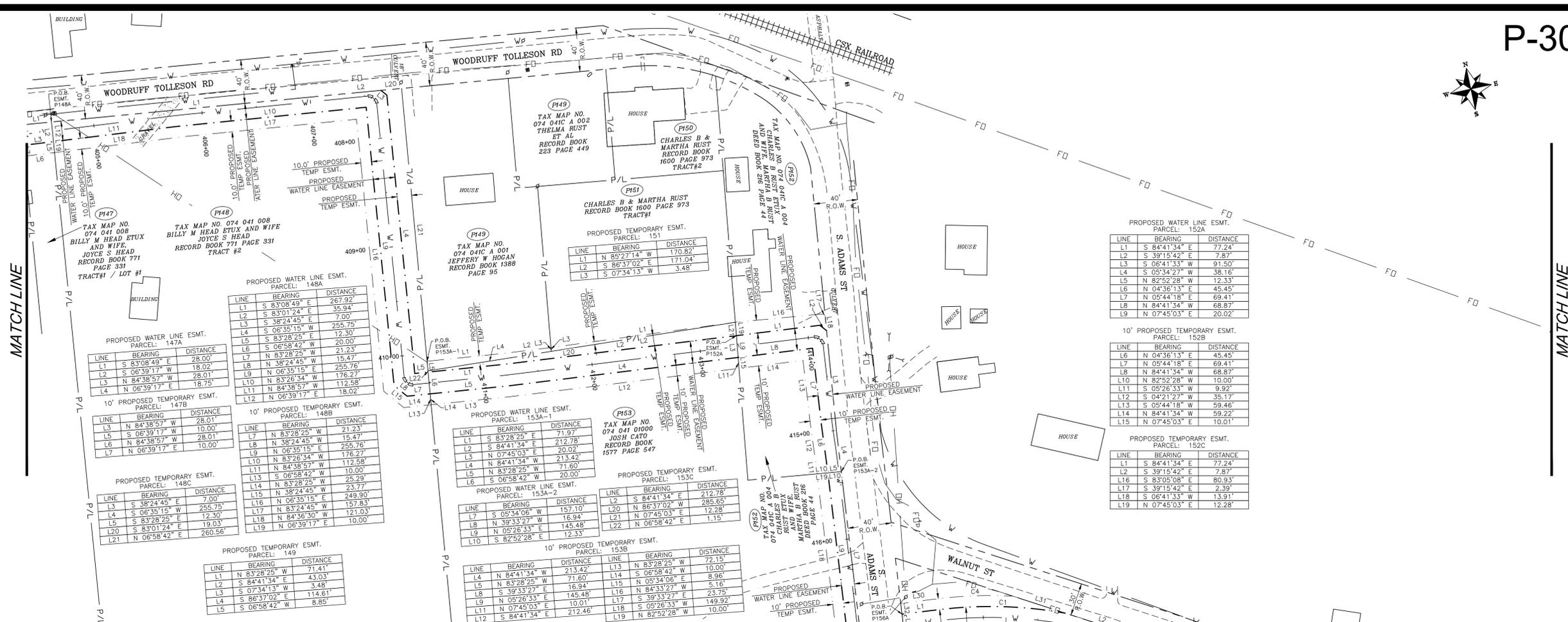


Logan Todd Regional  
Water Commission  
WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)  
Water Line: Plan & Profile

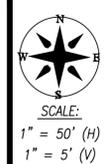


**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY
---	PROPERTY LINE
---	ADJOINING PROPERTY LINE
---	EXISTING EASEMENT
---	EDGE OF PAVEMENT
---	EXISTING OVERHEAD WIRES
---	EXISTING UNDERGROUND ELECTRICAL LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND TELEPHONE LINE
---	EXISTING SANITARY SEWER
---	EXISTING GASLINE
---	EXISTING FENCE
---	EXISTING RAILROAD
---	EXISTING TREE LINE
---	EXISTING FIRE HYDRANT
---	WATER VALVE
---	WATER METER
---	GAS METER
---	EXISTING POWER POLE
---	EXISTING LIGHT POLE (2 LIGHTS)
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING STORM SEWER MANHOLE
---	DROP BOX INLET (DBI)
---	EXISTING TRANSFORMER PAD
---	TELEPHONE PEDAESTAL
---	EXISTING TREE
---	SPRINKLER HEAD
---	EXISTING SIGN
---	ELECTRIC JUNCTION BOX
---	EXISTING GUIDE WIRE



P-30



SCALE:  
1" = 50' (H)  
1" = 5' (V)

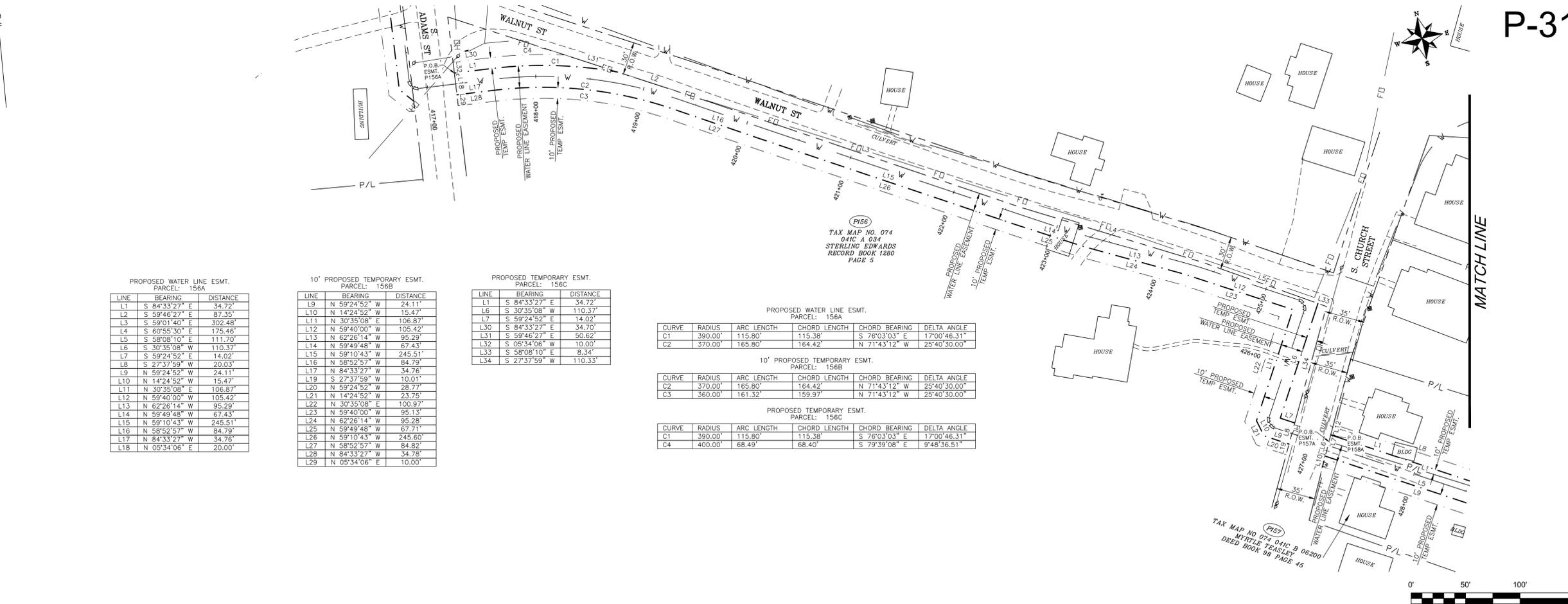
No.	Revision	Date	By
1	FOR KODW REVIEW	09-02-11	CWW
2			
3			

**LTRWC**  
Logan Todd  
Reg. Water Commission

**McGhee**  
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**AEI**  
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Glasgow, KY 42411  
(270) 651-7220

FIRM: McGhee  
DES BY: MMW  
CHK BY: ETH  
DWN BY: CWW  
SCALE: AS SHOWN  
PROJECT DATE: 2015  
APP BY:  
PRINTED:  
LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING



P-31



PROPOSED WATER LINE ESMT.  
PARCEL: 156A

LINE	BEARING	DISTANCE
L1	S 84°33'27" E	34.72'
L2	S 59°46'27" E	87.35'
L3	S 59°01'40" E	302.48'
L4	S 60°55'30" E	175.46'
L5	S 58°08'10" E	111.70'
L6	S 30°35'08" W	110.37'
L7	S 59°24'52" E	14.02'
L8	S 27°37'59" W	20.03'
L9	N 59°24'52" W	24.11'
L10	N 14°24'52" W	15.47'
L11	N 30°35'08" E	106.87'
L12	N 59°40'00" W	105.42'
L13	N 62°26'14" W	95.29'
L14	N 59°49'48" W	67.43'
L15	N 59°10'43" W	245.51'
L16	N 58°52'57" W	84.79'
L17	N 84°33'27" W	34.76'
L18	N 05°34'06" E	20.00'

10' PROPOSED TEMPORARY ESMT.  
PARCEL: 156B

LINE	BEARING	DISTANCE
L9	N 59°24'52" W	24.11'
L10	N 14°24'52" W	15.47'
L11	N 30°35'08" E	106.87'
L12	N 59°40'00" W	105.42'
L13	N 62°26'14" W	95.29'
L14	N 59°49'48" W	67.43'
L15	N 59°10'43" W	245.51'
L16	N 58°52'57" W	84.79'
L17	N 84°33'27" W	34.76'
L18	N 05°34'06" E	20.00'
L19	S 27°37'59" W	10.01'
L20	N 59°24'52" W	28.77'
L21	N 14°24'52" W	23.75'
L22	N 30°35'08" E	100.97'
L23	N 59°40'00" W	95.13'
L24	N 62°26'14" W	95.28'
L25	N 59°49'48" W	67.71'
L26	N 59°10'43" W	245.60'
L27	N 58°52'57" W	84.82'
L28	N 84°33'27" W	34.78'
L29	N 05°34'06" E	10.00'

PROPOSED TEMPORARY ESMT.  
PARCEL: 156C

LINE	BEARING	DISTANCE
L1	S 84°33'27" E	34.72'
L6	S 30°35'08" W	110.37'
L7	S 59°24'52" E	14.02'
L30	S 84°33'27" E	34.70'
L31	S 59°46'27" E	50.62'
L32	S 05°34'06" W	10.00'
L33	S 58°08'10" E	8.34'
L34	S 27°37'59" W	110.33'

PROPOSED WATER LINE ESMT.  
PARCEL: 156A

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	390.00'	115.80'	115.38'	S 76°03'03" E	17°00'46.31"
C2	370.00'	165.80'	164.42'	N 71°43'12" W	25°40'30.00"

10' PROPOSED TEMPORARY ESMT.  
PARCEL: 156B

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C2	370.00'	165.80'	164.42'	N 71°43'12" W	25°40'30.00"
C3	360.00'	161.32'	159.97'	N 71°43'12" W	25°40'30.00"

PROPOSED TEMPORARY ESMT.  
PARCEL: 156C

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	390.00'	115.80'	115.38'	S 76°03'03" E	17°00'46.31"
C4	400.00'	68.49'	66.40'	S 79°39'08" E	9°48'36.51"

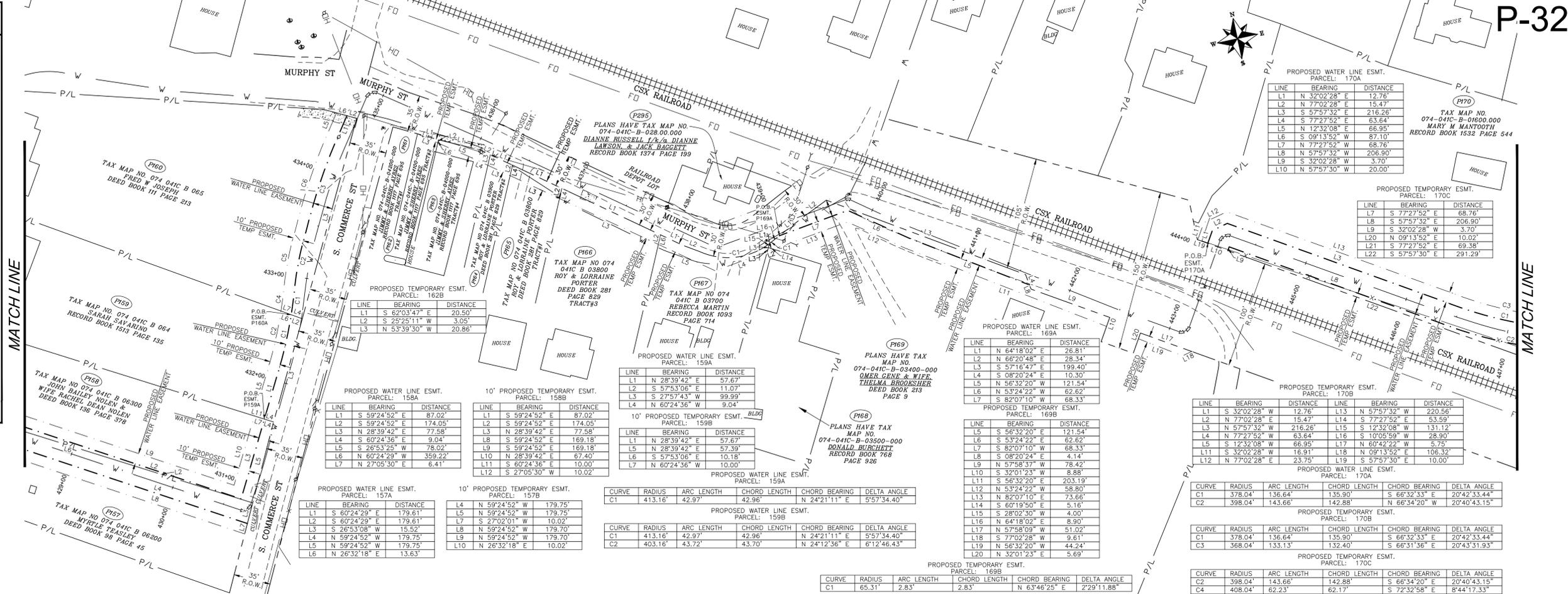
Logan Todd Regional  
Water Commission  
**WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)**  
Water Line: Plan & Profile

**Quality On Tap!**

DRAWING NO.  
SHEET **14**

**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY
---	PROPERTY LINE
---	ADJOINING PROPERTY LINE
---	EXISTING EASEMENT
---	EDGE OF PAVEMENT
---	EXISTING OVERHEAD WIRES
---	EXISTING UNDERGROUND ELECTRICAL LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND TELEPHONE LINE
---	EXISTING SANITARY SEWER
---	EXISTING GASLINE
---	EXISTING FENCE
---	EXISTING RAILROAD
---	EXISTING TREE LINE
---	EXISTING FIRE HYDRANT
---	WATER VALVE
---	WATER METER
---	GAS METER
---	EXISTING POWER POLE
---	EXISTING LIGHT POLE (2 LIGHTS)
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING STORM SEWER MANHOLE
---	DROP BOX (INLET) (DB)
---	EXISTING TRANSFORMER PAD
---	TELEPHONE PEDESTAL
---	EXISTING TREE
---	SPRINKLER HEAD
---	EXISTING SIGN
---	ELECTRIC JUNCTION BOX
---	EXISTING GUIDE WIRE



**P-32**

SCALE: 1" = 50' (H)  
1" = 5' (V)

NO.	REVISION	DATE	BY
1	FOR R.O.W. REVIEW	09-02-11	CWW

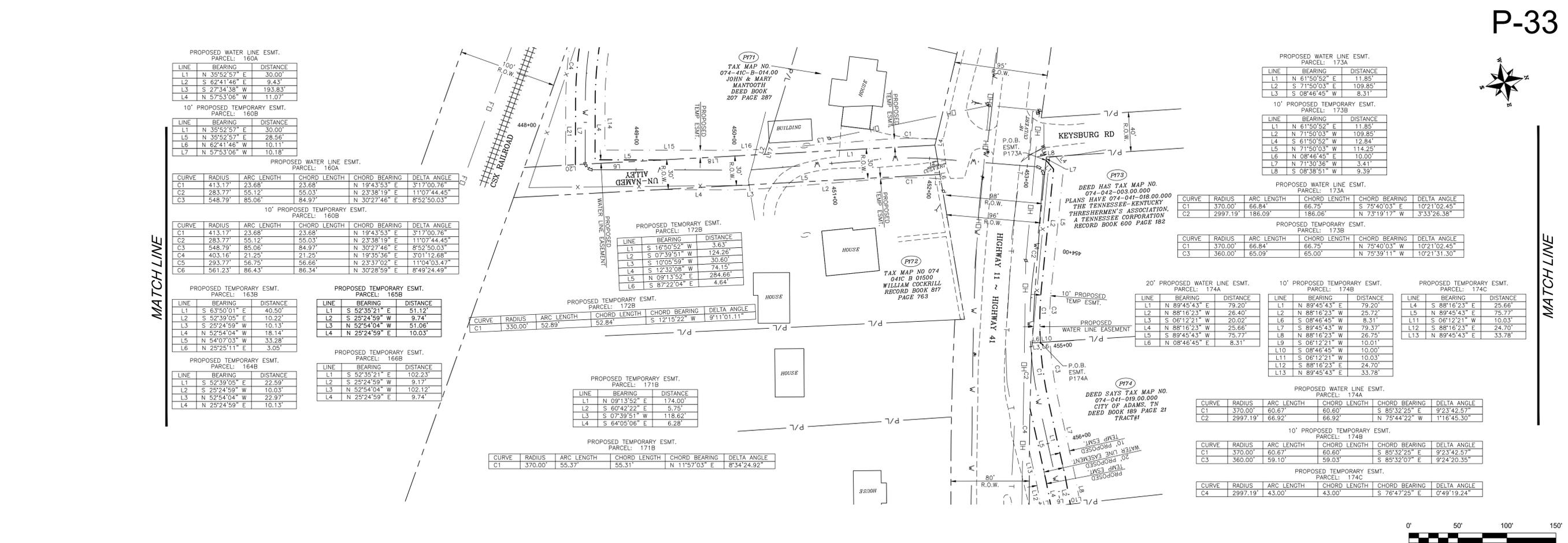
REVISIONS

**LTRWC**  
Logan Todd  
Reg. Water Commission

**McGhee**  
Engineering

**AMERICAN ENGINEERS, INC.**  
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Guthrie, KY 42334  
(270) 483-6990



**P-33**

SCALE: 1" = 50' (H)  
1" = 5' (V)

LENGTH OF BAR IS 1" ON ORIGINAL DRAWING

**Logan Todd Regional Water Commission**  
**WATER SYSTEM EXPANSION TO SPRINGFIELD (TN)**  
*Water Line: Plan & Profile*

**Quality On Tap!**

DRAWING NO. **15**  
SHEET

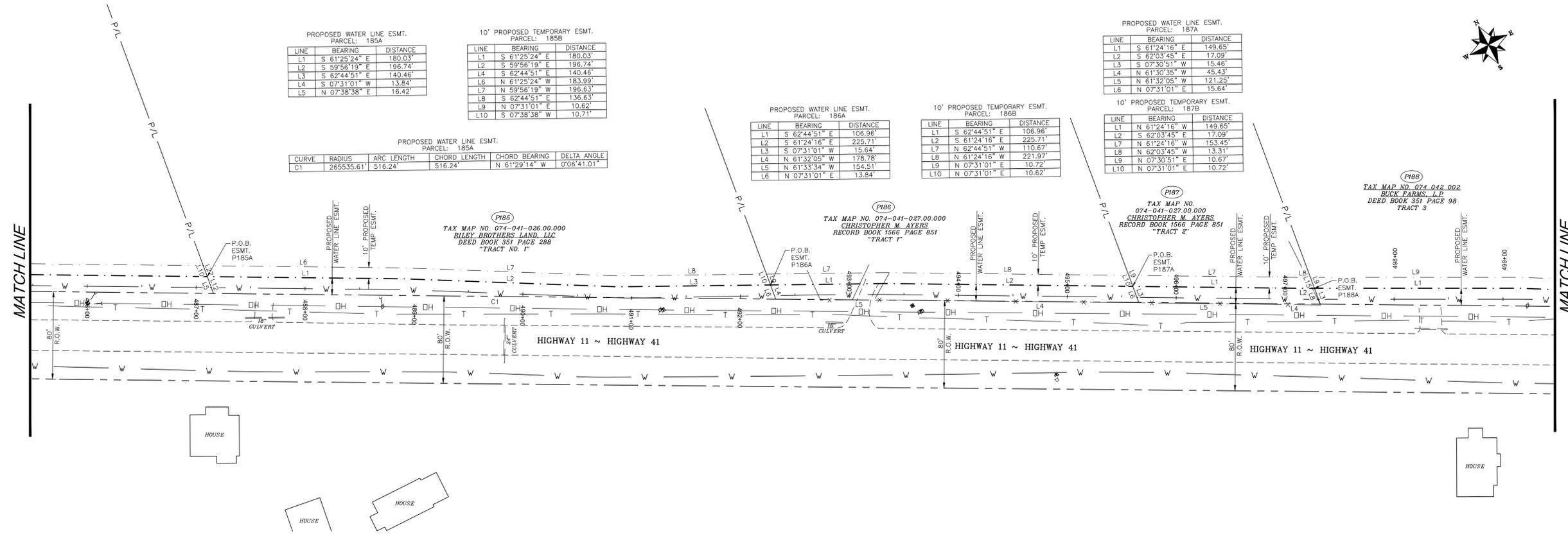


**LEGEND**

SYMBOLS THAT MAY APPEAR ON DRAWING

- RIGHT OF WAY
- - - - - PROPERTY LINE
- - - - - ADJOINING PROPERTY LINE
- - - - - EXISTING EASEMENT
- - - - - EDGE OF PAVEMENT
- - - - - EXISTING OVERHEAD WIRES
- - - - - EXISTING UNDERGROUND ELECTRICAL LINE
- - - - - EXISTING WATER LINE
- - - - - EXISTING UNDERGROUND TELEPHONE LINE
- - - - - EXISTING SANITARY SEWER
- - - - - EXISTING GASLINE
- - - - - EXISTING FENCE
- - - - - EXISTING RAILROAD
- - - - - EXISTING TREE LINE
- ⊕ F.M. EXISTING FIRE HYDRANT
- ⊕ WATER VALVE
- ⊕ WATER METER
- ⊕ GAS METER
- ⊕ EXISTING POWER POLE
- ⊕ EXISTING LIGHT POLE (2 LIGHTS)
- ⊕ EXISTING SANITARY SEWER MANHOLE
- ⊕ EXISTING STORM SEWER MANHOLE
- ⊕ DROP BOX INLET (DBI)
- ⊕ EXISTING TRANSFORMER PAD
- ⊕ TELEPHONE PEDESTAL
- ⊕ EXISTING TREE
- ⊕ SPRINKLER HEAD
- ⊕ EXISTING SIGN
- ⊕ ELECTRIC JUNCTION BOX
- ⊕ EXISTING GUIDE WIRE

P-36



SCALE:  
1" = 50' (H)  
1" = 5' (V)

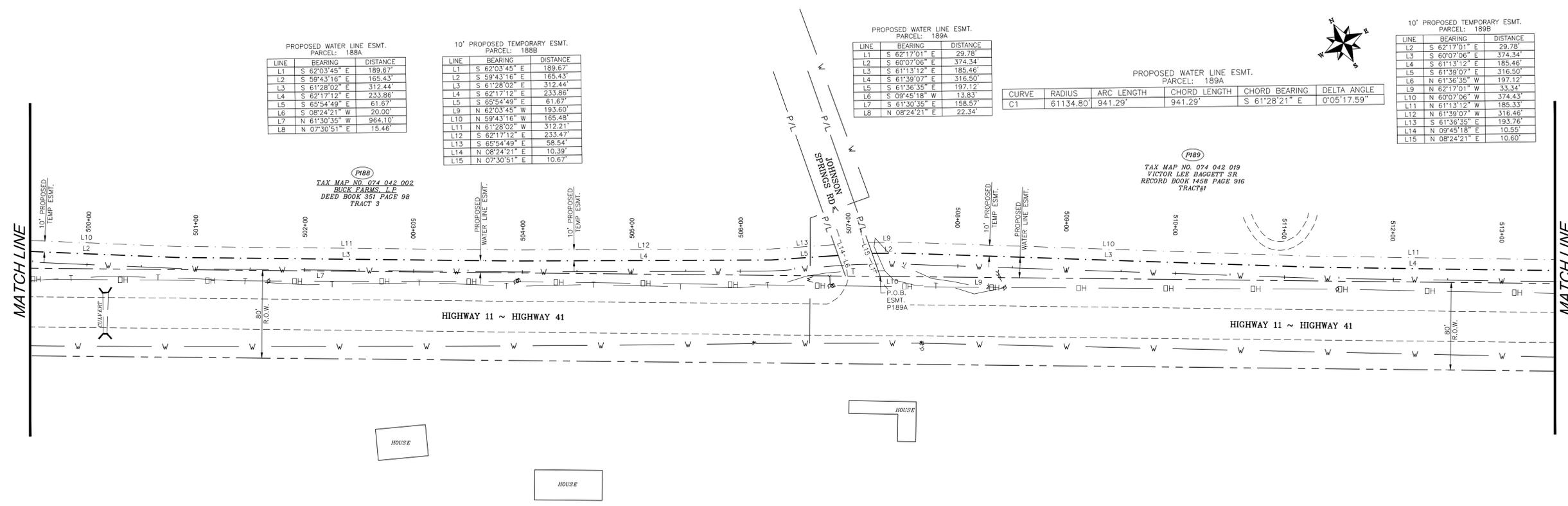
NO.	REVISION	DATE	BY
1	FOR KODW REVIEW	09-02-11	CWW

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P-37



FIRM: McGhee  
DES BY: MWM  
CHK BY: ETH  
DWN BY: CWW  
APP BY:  
SCALE: AS SHOWN  
PROJECT DATE: 2015  
PRINTED:  
LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING

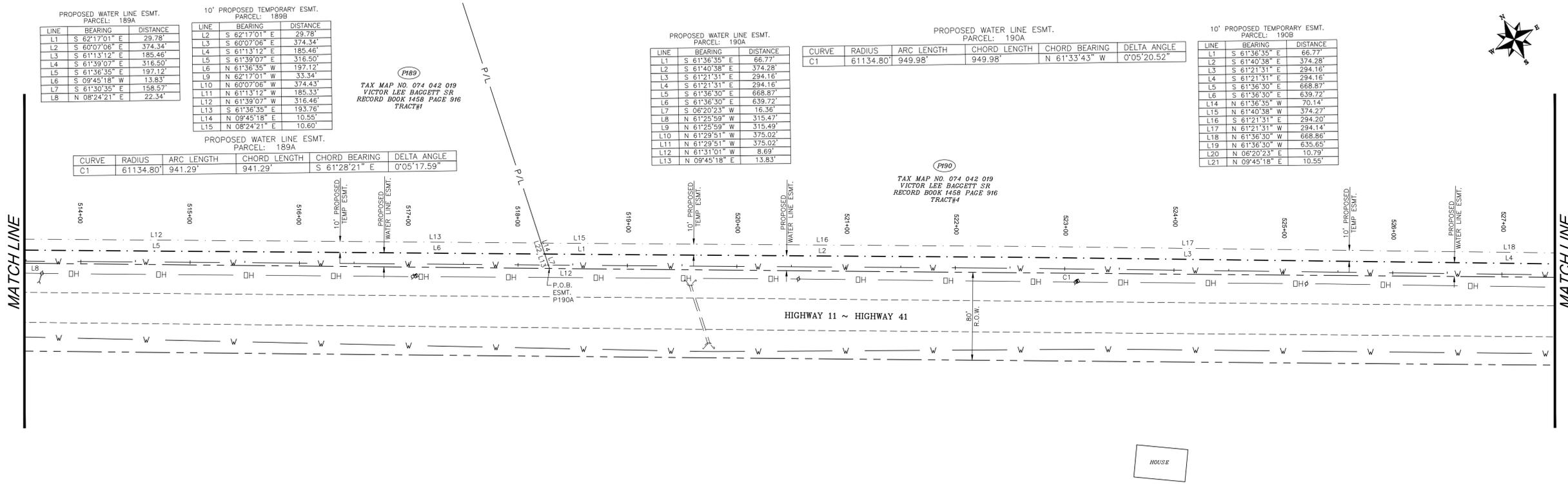
Logan Todd Regional  
Water Commission  
WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)  
Water Line: Plan & Profile

Quality  
On Tap!



**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY
---	PROPERTY LINE
---	ADJOINING PROPERTY LINE
---	EXISTING EASEMENT
---	EDGE OF PAVEMENT
---	EXISTING OVERHEAD WIRES
---	EXISTING UNDERGROUND ELECTRICAL LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND TELEPHONE LINE
---	EXISTING SANITARY SEWER
---	EXISTING GASLINE
---	EXISTING FENCE
---	EXISTING RAILROAD
---	EXISTING TREE LINE
---	F.H. EXISTING FIRE HYDRANT
---	WATER VALVE
---	WATER METER
---	GAS METER
---	EXISTING POWER POLE
---	EXISTING LIGHT POLE (2 LIGHTS)
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING STORM SEWER MANHOLE
---	DROP BOX (INLET, DBI)
---	EXISTING TRANSFORMER PAD
---	TELEPHONE PEDESTAL
---	EXISTING TREE
---	SPRINKLER HEAD
---	EXISTING SIGN
---	ELECTRIC JUNCTION BOX
---	EXISTING GUIDE WIRE

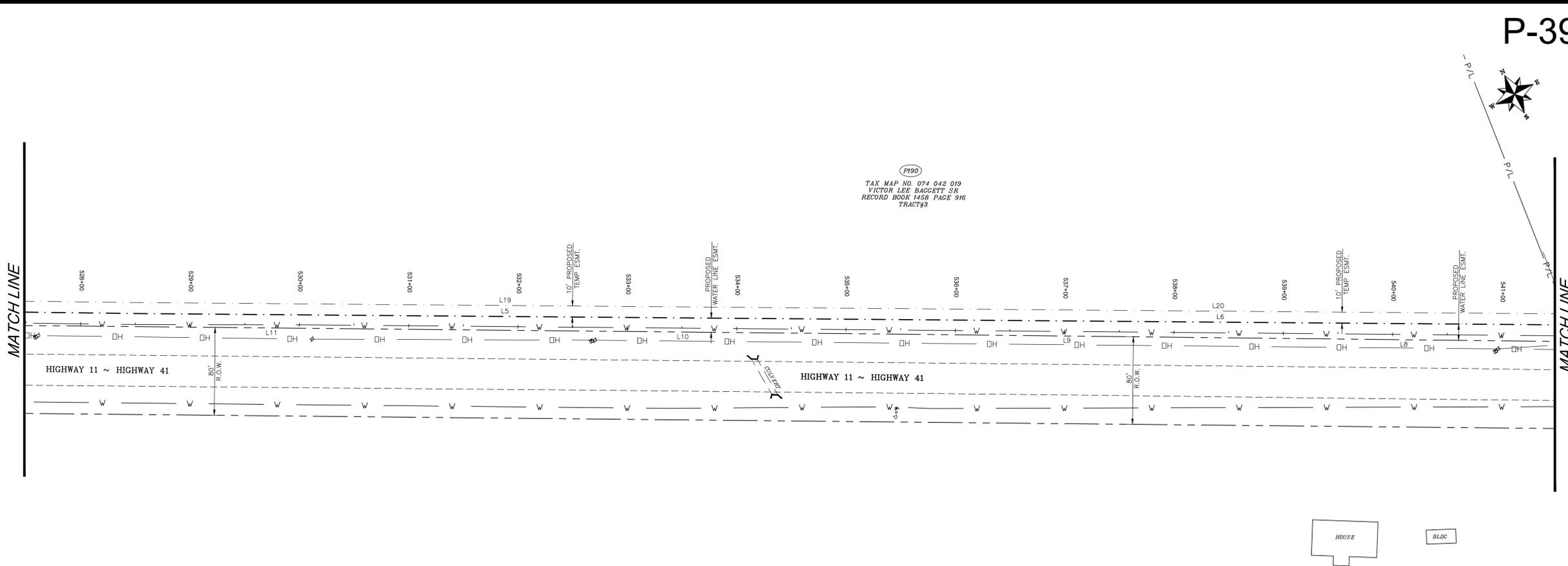


P-38



SCALE:  
1" = 50' (H)  
1" = 5' (V)

NO.	REVISION	DATE	BY
1	FOR ROW REVIEW	09-02-11	CWW
2			
3			



P-39



SCALE:  
1" = 50' (H)  
1" = 5' (V)

NO.	REVISION	DATE	BY
1	FOR ROW REVIEW	09-02-11	CWW
2			
3			

FIRM: McGhee  
DES BY: MWM  
CHK BY: ETH  
DWN BY: CWW  
APP BY:  
PROJECT: AS SHOWN  
SCALE: AS SHOWN  
PROJECT DATE: 2015  
PRINTED:  
LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING

Logan Todd Regional  
Water Commission  
WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)  
Water Line: Plan & Profile

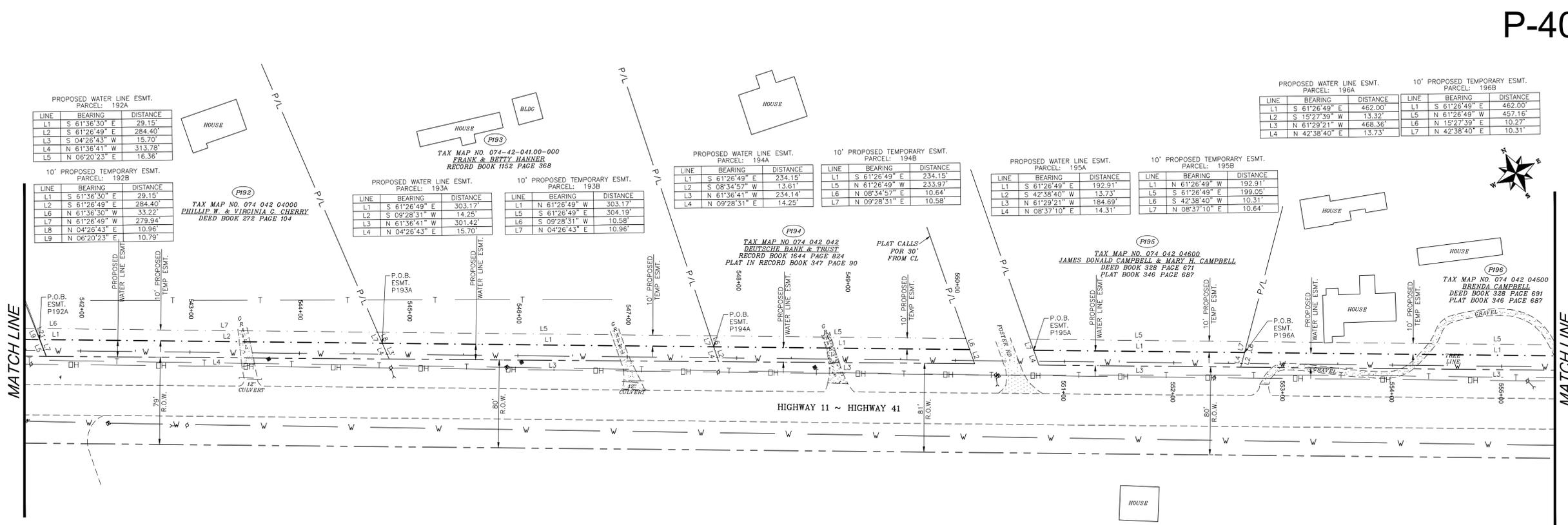


DRAWING NO.  
SHEET 18



**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY
---	PROPERTY LINE
---	ADJOINING PROPERTY LINE
---	EXISTING EASEMENT
---	EDGE OF PAVEMENT
---	EXISTING OVERHEAD WIRES
---	EXISTING UNDERGROUND ELECTRICAL LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND TELEPHONE LINE
---	EXISTING SANITARY SEWER
---	EXISTING GAS LINE
---	EXISTING FENCE
---	EXISTING RAILROAD
---	EXISTING TREE LINE
---	EXISTING FIRE HYDRANT
---	WATER VALVE
---	WATER METER
---	GAS METER
---	EXISTING POWER POLE
---	EXISTING LIGHT POLE (2 LIGHTS)
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING STORM SEWER MANHOLE
---	DROP BOX INLET (DBI)
---	EXISTING TRANSFORMER PAD
---	TELEPHONE PEDESTAL
---	EXISTING TREE
---	SPRINKLER HEAD
---	EXISTING SIGN
---	ELECTRIC JUNCTION BOX
---	EXISTING GUIDE WIRE



**P-40**

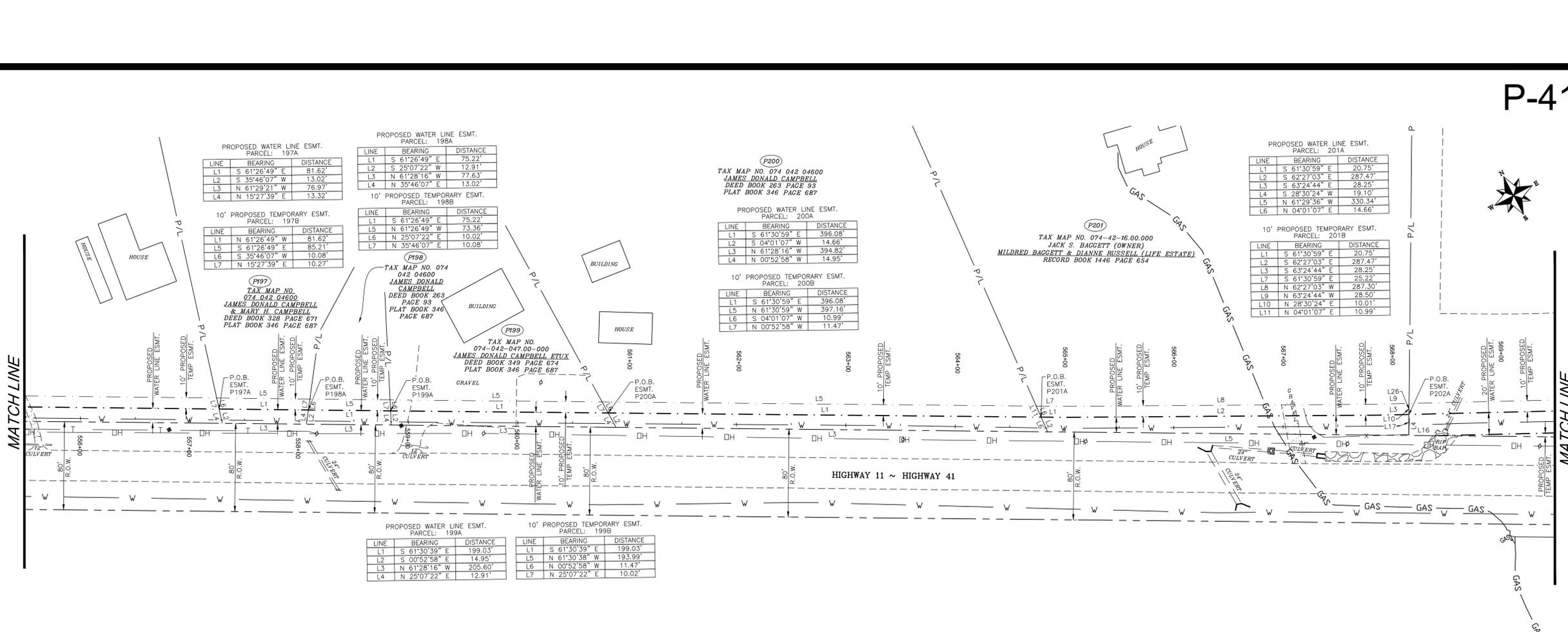
SCALE:  
1" = 50' (H)  
1" = 5' (V)

NO.	REVISION	DATE	BY
1	FOR R.O.W. REVIEW	09-02-11	CWW

**LTRWC**  
Logan Todd Regional Water Commission

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(270) 651-7220



**P-41**

SCALE:  
1" = 50' (H)  
1" = 5' (V)

NO.	REVISION	DATE	BY
1	FOR R.O.W. REVIEW	09-02-11	CWW

**LTRWC**  
Logan Todd Regional Water Commission

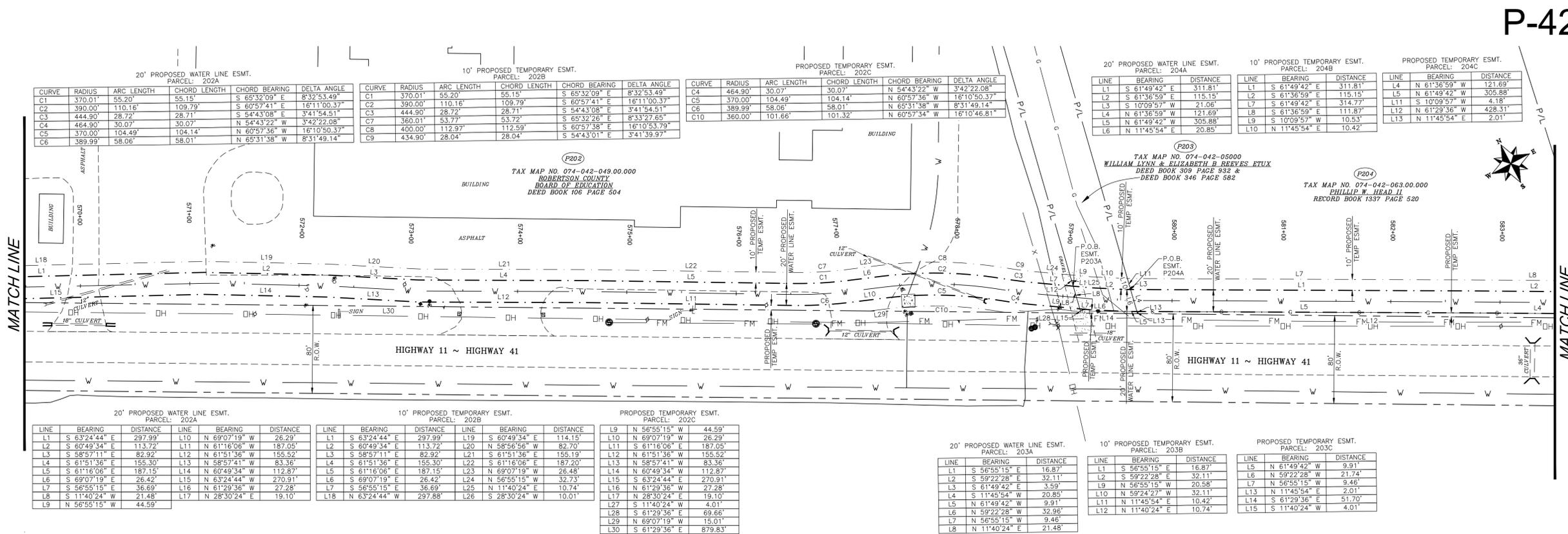
**McGhee Engineering**  
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(270) 483-9985

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DRAWING NO. **19**  
SHEET

**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY
---	PROPERTY LINE
---	ADJOINING PROPERTY LINE
---	EXISTING EASEMENT
---	EDGE OF PAVEMENT
---	EXISTING OVERHEAD WIRES
---	EXISTING UNDERGROUND ELECTRICAL LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND TELEPHONE LINE
---	EXISTING SANITARY SEWER
---	EXISTING GASLINE
---	EXISTING FENCE
---	EXISTING RAILROAD
---	EXISTING TREE LINE
---	EXISTING FIRE HYDRANT
---	WATER VALVE
---	WATER METER
---	GAS METER
---	EXISTING POWER POLE
---	EXISTING LIGHT POLE (2 LIGHTS)
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING STORM SEWER MANHOLE
---	DROP BOX (INLET, DBI)
---	EXISTING TRANSFORMER PAD
---	TELEPHONE PEDESTAL
---	EXISTING TREE
---	SPRINKLER HEAD
---	EXISTING SIGN
---	ELECTRIC JUNCTION BOX
---	EXISTING GUIDE WIRE

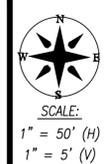


**LEGEND**

SYMBOLS THAT MAY APPEAR ON DRAWING

- RIGHT OF WAY
- - - - - PROPERTY LINE
- - - - - ADJOINING PROPERTY LINE
- - - - - EXISTING EASEMENT
- - - - - EDGE OF PAVEMENT
- - - - - EXISTING OVERHEAD WIRES
- - - - - EXISTING UNDERGROUND ELECTRICAL LINE
- - - - - EXISTING WATER LINE
- - - - - EXISTING UNDERGROUND TELEPHONE LINE
- - - - - EXISTING SANITARY SEWER
- - - - - EXISTING GASLINE
- - - - - EXISTING RAILROAD
- - - - - EXISTING TREE LINE
- F.M. EXISTING FIRE HYDRANT
- WATER VALVE
- WATER METER
- GAS METER
- EXISTING POWER POLE
- EXISTING LIGHT POLE (2 LIGHTS)
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- DROP BOX INLET (DBI)
- EXISTING TRANSFORMER PAD
- TELEPHONE PEDESTAL
- EXISTING TREE
- SPRINKLER HEAD
- EXISTING SIGN
- ELECTRIC JUNCTION BOX
- EXISTING GUIDE WIRE

**P-44**



NO.	REVISION	DATE	BY
1	FOR KODW REVIEW	09-02-11	CWW

PROPOSED WATER LINE ESMT. PARCEL: 208A

LINE	BEARING	DISTANCE
L1	S 70°08'34" E	54.03'
L2	S 61°48'27" E	175.57'
L3	S 59°11'28" E	88.85'
L4	S 61°44'10" E	233.52'
L5	S 62°54'37" E	128.72'
L6	S 61°07'02" E	330.54'
L7	S 62°14'13" E	39.84'
L8	S 08°05'48" W	13.30'
L9	N 61°29'36" W	724.63'
L10	N 61°29'36" W	386.85'

PROPOSED WATER LINE ESMT. PARCEL: 208A

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	390.00'	56.74'	56.69'	S 65°58'30" E	8°20'07"

10' PROPOSED TEMPORARY ESMT. PARCEL: 208B

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C2	400.00'	58.19'	58.14'	S 65°58'30" E	8°20'07"

10' PROPOSED TEMPORARY ESMT. PARCEL: 208B

LINE	BEARING	DISTANCE
L1	S 70°08'34" E	54.03'
L2	S 61°48'27" E	175.57'
L3	S 59°11'28" E	88.85'
L4	S 61°44'10" E	233.52'
L5	S 62°54'37" E	128.72'
L6	S 61°07'02" E	330.54'
L7	S 62°14'13" E	39.84'
L8	S 08°05'48" W	13.30'
L9	N 61°29'36" W	724.63'
L10	N 61°29'36" W	386.85'
L11	S 70°04'00" E	120.82'
L12	S 61°48'27" E	175.80'
L13	S 59°11'28" E	88.86'
L14	S 61°44'10" E	233.20'
L15	S 62°54'37" E	128.77'
L16	S 61°07'02" E	330.60'
L17	S 62°14'13" E	36.17'
L18	S 08°05'48" W	10.62'
L19	N 61°29'36" W	67.56'

PROPOSED WATER LINE ESMT. PARCEL: 209A

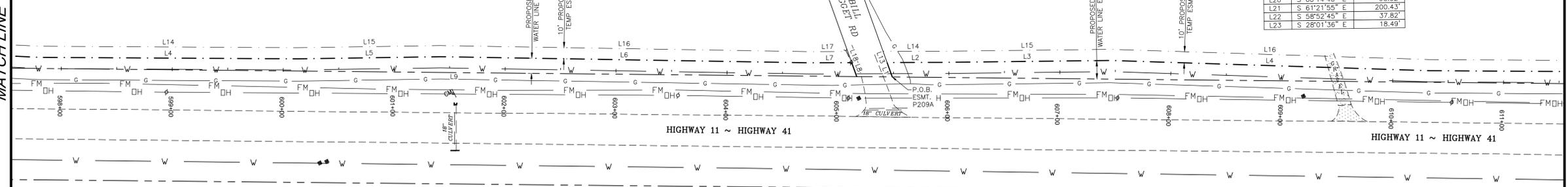
LINE	BEARING	DISTANCE
L1	N 08°05'48" E	13.74'
L2	S 62°14'13" E	51.11'
L3	S 62°42'32" E	150.39'
L4	S 60°13'51" E	286.88'
L5	S 61°42'05" E	306.49'
L6	S 63°09'24" E	218.58'
L7	S 61°41'21" E	114.74'
L8	S 60°14'40" E	98.49'
L9	S 61°21'55" E	200.30'
L10	S 59°26'08" E	53.49'
L11	S 28°01'36" E	24.93'
L12	N 61°29'36" W	1496.22'

10' PROPOSED TEMPORARY ESMT. PARCEL: 209B

LINE	BEARING	DISTANCE
L1	S 62°14'13" E	51.11'
L2	S 62°42'32" E	150.39'
L3	S 60°13'51" E	286.88'
L4	S 61°42'05" E	306.49'
L5	S 63°09'24" E	218.58'
L6	S 61°41'21" E	114.74'
L7	S 60°14'40" E	98.49'
L8	S 61°21'55" E	200.30'
L9	S 59°26'08" E	53.49'
L10	N 08°05'48" E	10.62'
L11	S 62°14'13" E	54.65'
L12	S 62°42'32" E	150.56'
L13	S 60°13'51" E	286.96'
L14	S 61°42'05" E	306.24'
L15	S 63°09'24" E	218.59'
L16	S 61°41'21" E	115.00'
L17	S 60°14'40" E	98.52'
L18	S 61°21'55" E	200.43'
L19	S 58°52'45" E	37.82'
L20	S 28°01'36" E	18.49'

MATCH LINE

MATCH LINE



P209  
PVA MAP NO. 074.054.01300  
CARL BREWER  
RECORD BOOK 1746 PAGE 148

P209  
PVA MAP NO. 074.054.01300  
CARL BREWER  
RECORD BOOK 1746 PAGE 148

HIGHWAY 11 ~ HIGHWAY 41

**P-45**



NO.	REVISION	DATE	BY
1	FOR KODW REVIEW	09-02-11	CWW

PROPOSED WATER LINE ESMT. PARCEL: 209A

LINE	BEARING	DISTANCE
L1	N 08°05'48" E	13.74'
L2	S 62°14'13" E	51.11'
L3	S 62°42'32" E	150.39'
L4	S 60°13'51" E	286.88'
L5	S 61°42'05" E	306.49'
L6	S 63°09'24" E	218.58'
L7	S 61°41'21" E	114.74'
L8	S 60°14'40" E	98.49'
L9	S 61°21'55" E	200.30'
L10	S 59°26'08" E	53.49'
L11	S 28°01'36" E	24.93'
L12	N 61°29'36" W	1496.22'

10' PROPOSED TEMPORARY ESMT. PARCEL: 209B

LINE	BEARING	DISTANCE
L1	S 62°14'13" E	51.11'
L2	S 62°42'32" E	150.39'
L3	S 60°13'51" E	286.88'
L4	S 61°42'05" E	306.49'
L5	S 63°09'24" E	218.58'
L6	S 61°41'21" E	114.74'
L7	S 60°14'40" E	98.49'
L8	S 61°21'55" E	200.30'
L9	S 59°26'08" E	53.49'
L10	N 08°05'48" E	10.62'
L11	S 62°14'13" E	54.65'
L12	S 62°42'32" E	150.56'
L13	S 60°13'51" E	286.96'
L14	S 61°42'05" E	306.24'
L15	S 63°09'24" E	218.59'
L16	S 61°41'21" E	115.00'
L17	S 60°14'40" E	98.52'
L18	S 61°21'55" E	200.43'
L19	S 58°52'45" E	37.82'
L20	S 28°01'36" E	18.49'

20' PROPOSED WATER LINE ESMT. PARCEL: 210A

LINE	BEARING	DISTANCE
L1	S 60°46'17" E	38.01'
L2	S 65°04'09" E	179.98'
L3	S 63°11'26" E	554.63'
L4	S 53°38'51" W	21.10'
L5	N 63°11'26" W	554.31'
L6	N 65°04'09" W	72.57'
L7	N 61°29'17" W	125.33'
L8	N 28°01'36" W	24.93'

10' PROPOSED TEMPORARY ESMT. PARCEL: 210B

LINE	BEARING	DISTANCE
L1	S 60°46'17" E	38.01'
L2	N 65°04'09" E	179.98'
L3	N 63°11'26" E	554.63'
L4	S 53°38'51" W	21.10'
L5	N 63°11'26" W	554.31'
L6	N 65°04'09" W	72.57'
L7	N 61°29'17" W	125.33'
L8	N 28°01'36" W	18.49'

20' PROPOSED WATER LINE ESMT. PARCEL: 210A

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	390.02'	59.46'	59.40'	S 58°49'24" E	8°44'04.62"
C2	370.00'	49.85'	49.81'	N 59°19'51" W	7°43'08.80"

10' PROPOSED TEMPORARY ESMT. PARCEL: 210B

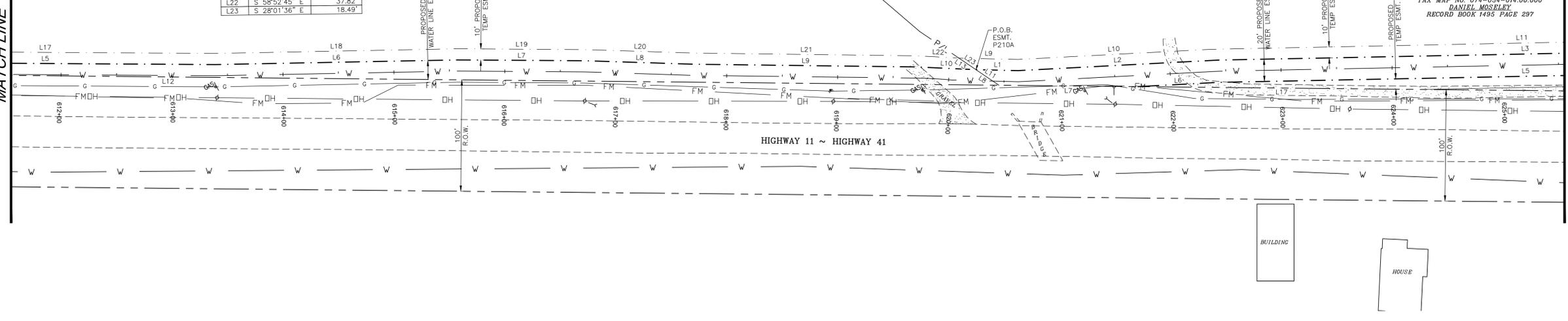
CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	390.02'	59.46'	59.40'	N 58°49'24" W	8°44'04.62"
C3	400.04'	64.25'	64.18'	N 58°35'23" W	9°12'08.12"

PROPOSED TEMPORARY ESMT. PARCEL: 210C

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C2	370.00'	49.85'	49.81'	S 59°19'51" E	7°43'08.80"
C4	359.52'	39.99'	39.97'	S 59°58'53" E	6°22'25.13"

MATCH LINE

MATCH LINE



P209  
PVA MAP NO. 074.054.01300  
CARL BREWER  
RECORD BOOK 1746 PAGE 148

P210  
TAX MAP NO. 074-054-014-00.000  
DANIEL MOSELEY  
RECORD BOOK 1465 PAGE 297



FIRM: McGhee  
DES BY: MWM  
CHK BY: ETH  
DWN BY: CWW  
APP BY:  
SCALE: AS SHOWN  
PROJECT DATE: 2015  
PRINTED:  
LENGTH OF BAR IS 1" ON ORIGINAL DRAWING

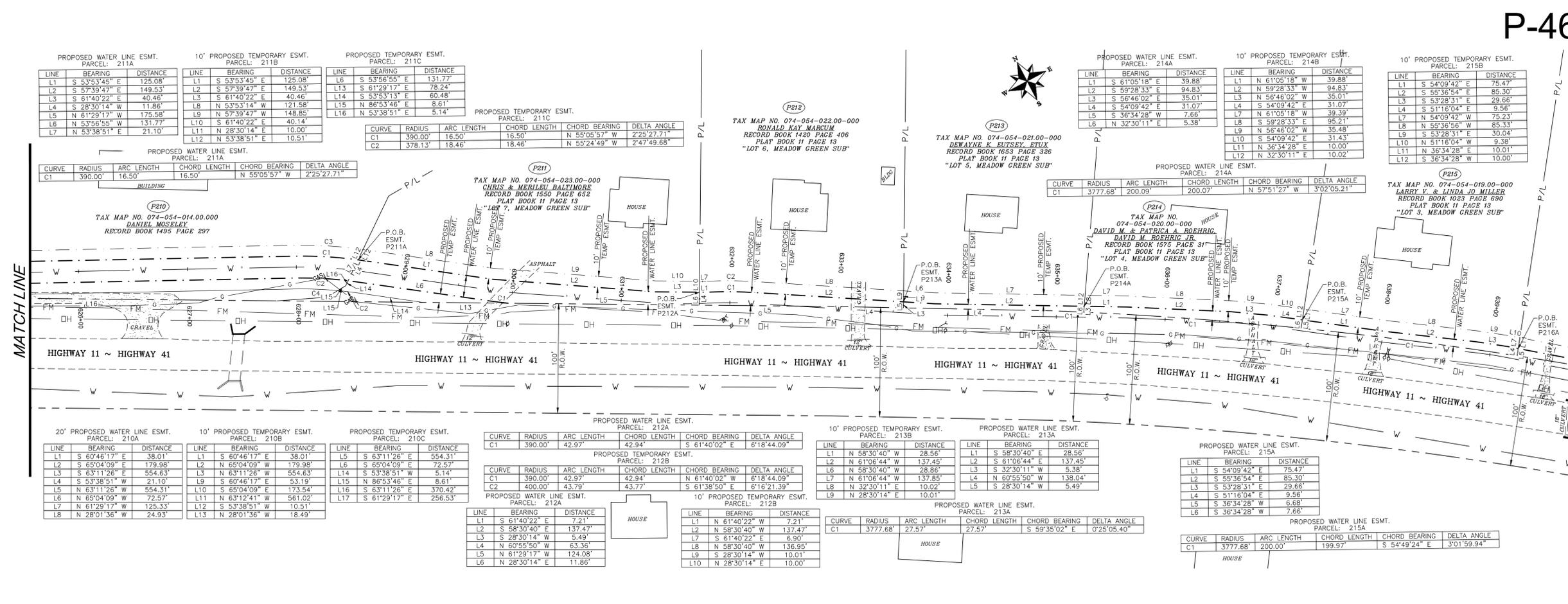
Logan Todd Regional  
Water Commission  
WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)  
Water Line: Plan & Profile



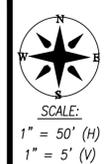
DRAWING NO.  
SHEET **21**

**LEGEND**

- SYMBOLS THAT MAY APPEAR ON DRAWING
- RIGHT OF WAY
  - - - - - PROPERTY LINE
  - - - - - ADJOINING PROPERTY LINE
  - - - - - EXISTING EASEMENT
  - - - - - EDGE OF PAVEMENT
  - - - - - EXISTING OVERHEAD WIRES
  - - - - - EXISTING UNDERGROUND ELECTRICAL LINE
  - - - - - EXISTING WATER LINE
  - - - - - EXISTING UNDERGROUND TELEPHONE LINE
  - - - - - EXISTING SANITARY SEWER
  - - - - - EXISTING GASLINE
  - - - - - EXISTING FENCE
  - - - - - EXISTING RAILROAD
  - - - - - EXISTING TREE LINE
  - - - - - F.M. EXISTING FIRE HYDRANT
  - - - - - WATER VALVE
  - - - - - WATER METER
  - - - - - GAS METER
  - - - - - EXISTING POWER POLE
  - - - - - EXISTING LIGHT POLE (2 LIGHTS)
  - - - - - EXISTING SANITARY SEWER MANHOLE
  - - - - - EXISTING STORM SEWER MANHOLE
  - - - - - DROP BOX (INLET) (DBI)
  - - - - - EXISTING TRANSFORMER PAD
  - - - - - TELEPHONE PEDESTAL
  - - - - - EXISTING TREE
  - - - - - SPRINKLER HEAD
  - - - - - EXISTING SIGN
  - - - - - ELECTRIC JUNCTION BOX
  - - - - - EXISTING GUIDE WIRE



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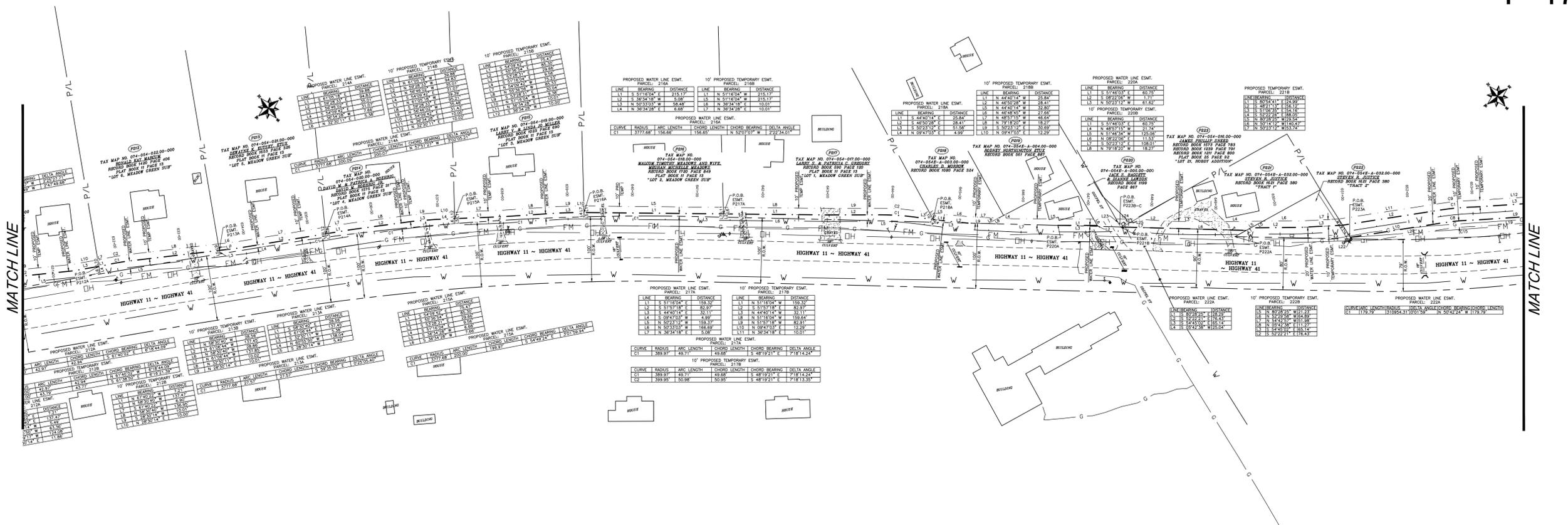
NO.	FOR	DATE	BY
1	FOR	09-02-11	CWW
2	REVISION		
3	REVISION		

**LTRWC**  
Logan Todd  
Reg. Water Commission

**McGhee**  
Engineering

**AMERICAN ENGINEERS, INC.**  
PROFESSIONAL ENGINEERING  
65 Aberdeen Drive  
Glasgow, KY 42341  
(270) 651-7220

P-47



FIRM: McGhee  
DES BY: MWM  
CHK BY: ETH  
DWN BY: CWW  
SCALE: AS SHOWN  
PROJECT: WATER SYSTEM EXPANSION TO SPRINGFIELD (TN)  
DATE: 2015  
PRINTED: ON ORIGINAL DRAWING  
LENGTH OF BAR IS 1"

**Logan Todd Regional Water Commission**  
**WATER SYSTEM EXPANSION TO SPRINGFIELD (TN)**  
*Water Line: Plan & Profile*

**Quality On Tap!**

DRAWING NO. **22**  
SHEET



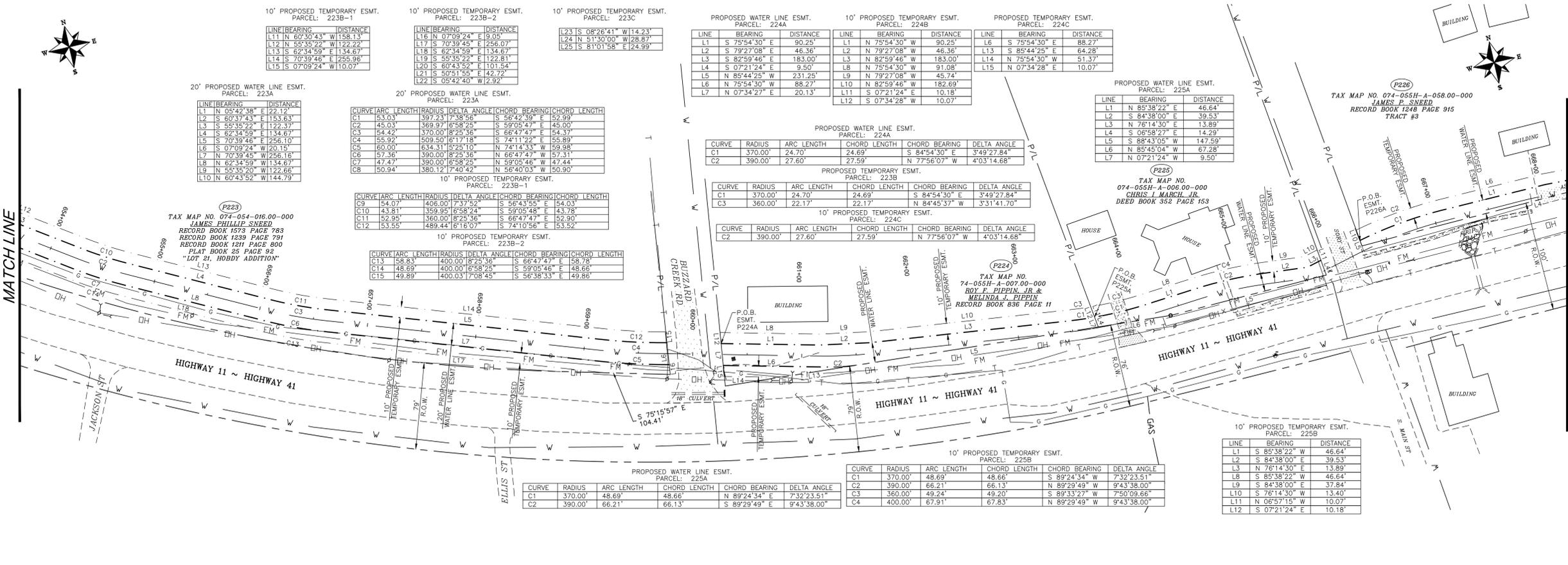
**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY PROPERTY LINE
---	ADJOINING PROPERTY LINE
---	EXISTING EASEMENT
---	EDGE OF PAVEMENT
---	EXISTING OVERHEAD WIRES
---	EXISTING UNDERGROUND ELECTRIC LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND TELEPHONE LINE
---	EXISTING SANITARY SEWER
---	EXISTING GASLINE
---	EXISTING POWER POLE
---	EXISTING LIGHT POLE (2 LIGHTS)
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING STORM SEWER MANHOLE
---	DROP BOX (INLET) (DB)
---	EXISTING TRANSFORMER PAD
---	TELEPHONE PEDESTAL
---	EXISTING TREE
---	SPRINKLER HEAD
---	EXISTING SIGN
---	ELECTRIC JUNCTION BOX
---	EXISTING GUIDE WIRE



SCALE:  
1" = 50' (H)  
1" = 5' (V)

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10' PROPOSED TEMPORARY ESMT. PARCEL: 223B-1

LINE	BEARING	DISTANCE
L1	N 60°20'43" W	158.13
L2	N 55°35'22" W	122.22
L3	S 62°34'59" E	134.67
L4	S 70°39'40" E	125.98
L5	S 07°09'24" W	10.07

20' PROPOSED WATER LINE ESMT. PARCEL: 223A

LINE	BEARING	DISTANCE
L1	N 05°42'36" E	22.12
L2	S 60°37'43" E	115.63
L3	S 55°35'22" E	122.37
L4	S 62°34'59" E	134.67
L5	S 70°39'40" E	125.10
L6	S 07°09'24" W	20.15
L7	N 70°39'45" W	256.16
L8	N 62°34'59" W	134.67
L9	N 55°35'20" W	122.66
L10	N 60°43'52" W	144.79

10' PROPOSED TEMPORARY ESMT. PARCEL: 223B-2

LINE	BEARING	DISTANCE
L1	N 07°09'24" E	9.05
L2	S 70°39'45" E	256.07
L3	S 62°34'59" E	134.67
L4	S 55°35'22" E	122.81
L5	S 07°09'24" W	10.07
L6	S 05°42'40" W	12.92

10' PROPOSED TEMPORARY ESMT. PARCEL: 223B-1

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	53.03	397.23	738.96	S 56°42'39" E	52.99
C2	45.03	369.97	658.25	S 59°05'47" E	45.00
C3	54.42	370.00	825.36	S 66°47'47" E	54.37
C4	55.92	509.50	6117.18	S 74°11'22" E	55.89
C5	60.00	634.31	525.10	N 74°14'33" W	59.98
C6	57.36	390.00	825.36	N 66°47'47" W	57.31
C7	47.47	390.00	658.25	N 59°05'46" W	47.44
C8	50.94	380.12	740.42	N 56°40'03" W	50.90

10' PROPOSED TEMPORARY ESMT. PARCEL: 223B-2

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C9	54.07	406.00	1737.50	S 56°43'55" E	54.03
C10	43.81	359.85	658.24	S 59°05'46" E	43.78
C11	52.95	360.00	825.36	S 66°47'47" E	52.90
C12	53.55	489.44	616.07	S 74°10'56" E	53.52

10' PROPOSED TEMPORARY ESMT. PARCEL: 223B-1

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C13	58.83	400.00	825.36	S 66°47'47" E	58.78
C14	48.69	400.00	658.25	S 59°05'46" E	48.66
C15	49.89	400.03	708.45	S 56°38'33" E	49.86

PROPOSED WATER LINE ESMT. PARCEL: 224A

LINE	BEARING	DISTANCE
L1	S 75°54'30" E	90.25
L2	S 79°27'08" E	46.36
L3	S 82°59'46" E	183.00
L4	S 07°21'24" E	9.50
L5	N 85°44'25" W	231.25
L6	N 75°54'30" W	88.27
L7	N 07°34'27" E	20.13

10' PROPOSED TEMPORARY ESMT. PARCEL: 224B

LINE	BEARING	DISTANCE
L1	N 75°54'30" W	90.25
L2	N 79°27'08" W	46.36
L3	N 82°59'46" W	183.00
L4	N 07°21'24" W	9.50
L5	N 75°54'30" W	91.08
L6	N 85°44'25" W	45.74
L7	N 82°59'46" W	182.69
L8	S 07°21'24" E	10.18
L9	S 07°34'28" W	10.07

PROPOSED WATER LINE ESMT. PARCEL: 224C

LINE	BEARING	DISTANCE
L1	N 85°38'22" E	46.64
L2	S 84°38'00" E	39.53
L3	N 76°14'30" E	13.89
L4	S 06°58'27" E	14.29
L5	S 88°43'05" W	147.59
L6	N 85°45'04" W	67.28
L7	N 07°21'24" W	9.50

PROPOSED WATER LINE ESMT. PARCEL: 224A

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	370.00	24.70	24.69	S 84°54'30" E	3°49'27.84"
C2	390.00	27.60	27.59	N 77°56'07" W	4°03'14.68"

10' PROPOSED TEMPORARY ESMT. PARCEL: 224B

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	370.00	24.70	24.69	S 84°54'30" E	3°49'27.84"
C2	390.00	27.60	27.59	N 77°56'07" W	4°03'14.68"

10' PROPOSED TEMPORARY ESMT. PARCEL: 224C

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	370.00	48.69	48.66	S 89°24'34" E	7°32'23.51"
C2	390.00	66.21	66.13	S 89°29'49" E	9°43'38.00"
C3	360.00	49.24	49.20	S 89°33'27" W	7°50'09.66"
C4	400.00	67.91	67.83	N 89°29'49" W	9°43'38.00"

PROPOSED WATER LINE ESMT. PARCEL: 225A

LINE	BEARING	DISTANCE
L1	N 85°38'22" E	46.64
L2	S 84°38'00" E	39.53
L3	N 76°14'30" E	13.89
L4	S 06°58'27" E	14.29
L5	S 88°43'05" W	147.59
L6	N 85°45'04" W	67.28
L7	N 07°21'24" W	9.50

10' PROPOSED TEMPORARY ESMT. PARCEL: 225B

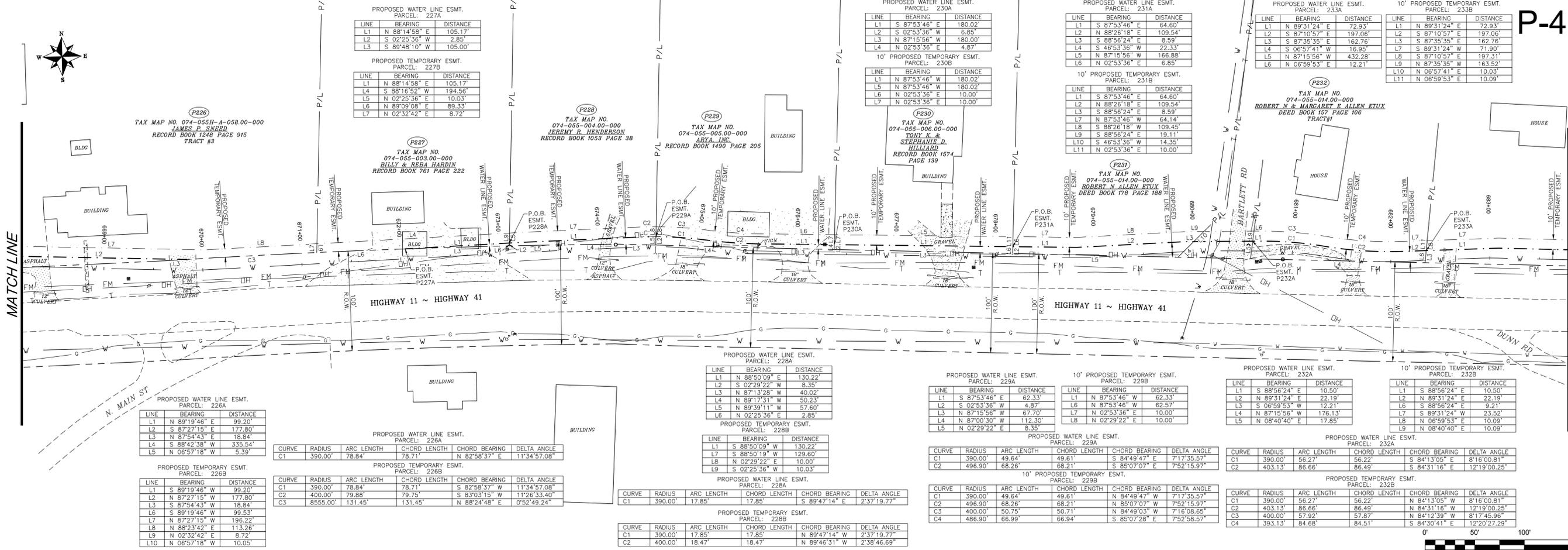
LINE	BEARING	DISTANCE
L1	N 85°38'22" W	46.64
L2	S 84°38'00" E	39.53
L3	N 76°14'30" E	13.89
L4	S 06°58'27" E	14.29
L5	S 88°43'05" W	147.59
L6	N 85°45'04" W	67.28
L7	N 07°21'24" W	10.18

10' PROPOSED TEMPORARY ESMT. PARCEL: 225B

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	370.00	48.69	48.66	S 89°24'34" E	7°32'23.51"
C2	390.00	66.21	66.13	S 89°29'49" E	9°43'38.00"
C3	360.00	49.24	49.20	S 89°33'27" W	7°50'09.66"
C4	400.00	67.91	67.83	N 89°29'49" W	9°43'38.00"

10' PROPOSED TEMPORARY ESMT. PARCEL: 225B

LINE	BEARING	DISTANCE
L1	N 85°38'22" W	46.64
L2	S 84°38'00" E	39.53
L3	N 76°14'30" E	13.89
L4	S 06°58'27" E	14.29
L5	S 88°43'05" W	147.59
L6	N 85°45'04" W	67.28
L7	N 07°21'24" W	10.18



PROPOSED WATER LINE ESMT. PARCEL: 227A

LINE	BEARING	DISTANCE
L1	N 88°14'58" E	105.17
L2	S 02°25'36" W	2.85
L3	S 89°48'10" W	105.00

PROPOSED TEMPORARY ESMT. PARCEL: 227B

LINE	BEARING	DISTANCE
L1	N 88°14'58" E	105.17
L2	S 02°25'36" W	194.56
L3	N 02°25'36" E	10.03
L4	N 89°09'08" E	89.33
L5	N 02°32'42" E	8.72

PROPOSED WATER LINE ESMT. PARCEL: 227A

LINE	BEARING	DISTANCE
L1	N 88°14'58" E	105.17
L2	S 02°25'36" W	2.85
L3	S 89°48'10" W	105.00

PROPOSED TEMPORARY ESMT. PARCEL: 227B

LINE	BEARING	DISTANCE
L1	N 88°14'58" E	105.17
L2	S 02°25'36" W	194.56
L3	N 02°25'36" E	10.03
L4	N 89°09'08" E	89.33
L5	N 02°32'42" E	8.72

PROPOSED WATER LINE ESMT. PARCEL: 230A

LINE	BEARING	DISTANCE
L1	S 87°53'46" E	180.02
L2	S 02°53'36" W	6.85
L3	N 87°15'56" W	180.00
L4	N 02°53'36" E	4.87

10' PROPOSED TEMPORARY ESMT. PARCEL: 230B

LINE	BEARING	DISTANCE
L1	N 87°53'46" W	180.02
L2	N 87°53'46" W	180.02
L3	N 02°53'36" E	10.00
L4	N 02°53'36" E	10.00

PROPOSED WATER LINE ESMT. PARCEL: 230A

LINE	BEARING	DISTANCE
L1	S 87°53'46" E	180.02
L2	S 02°53'36" W	6.85
L3	N 87°15'56" W	180.00
L4	N 02°53'36" E	4.87

10' PROPOSED TEMPORARY ESMT. PARCEL: 230B

LINE	BEARING	DISTANCE
L1	N 87°53'46" W	180.02
L2	N 87°53'46" W	180.02
L3	N 02°53'36" E	10.00
L4	N 02°53'36" E	10.00

PROPOSED WATER LINE ESMT. PARCEL: 231A

LINE	BEARING	DISTANCE
L1	S 87°53'46" E	64.60
L2	N 88°26'18" E	109.54
L3	S 88°56'24" E	8.59
L4	S 46°53'36" W	22.33
L5	N 87°15'56" W	166.88
L6	N 02°53'36" E	6.85

10' PROPOSED TEMPORARY ESMT. PARCEL: 231B

LINE	BEARING	DISTANCE
L1	S 87°53'46" E	64.60
L2	N 88°26'18" E	109.54
L3	S 88°56'24" E	8.59
L4	N 87°53'46" W	64.14
L5	N 88°26'18" W	109.45
L6	S 88°56'24" E	19.11
L7	N 02°53'36" W	14.35
L8	N 02°53'36" E	10.00

PROPOSED WATER LINE ESMT. PARCEL: 231A

LINE	BEARING	DISTANCE
L1	S 87°53'46" E	64.60
L2	N 88°26'18" E	109.54
L3	S 88°56'24" E	8.59
L4	N 87°53'46" W	64.14
L5	N 88°26'18" W	109.45
L6	S 88°56'24" E	19.11
L7	N 02°53'36" W	14.35
L8	N 02°53'36" E	10.00

10' PROPOSED TEMPORARY ESMT. PARCEL: 231B

LINE	BEARING	DISTANCE
L1	S 87°53'46" E	64.60
L2	N 88°26'18" E	109.54
L3	S 88°56'24" E	8.59
L4	N 87°53'46" W	64.14
L5	N 88°26'18" W	109.45
L6	S 88°56'24" E	19.11
L7	N 02°53'36" W	14.35
L8	N 02°53'36" E	10.00

P-49

FIRM: McGhee  
DES BY: MMW  
CHK BY: ETH  
DWN BY: CWV  
APP BY:  
SCALE: AS SHOWN  
PROJECT DATE: 2015  
PRINTED:  
LENGTH OF BAR IS 1" ON ORIGINAL DRAWING

Logan Todd Regional Water Commission  
WATER SYSTEM EXPANSION TO SPRINGFIELD (TN)  
Water Line: Plan & Profile

Quality On Tap!  
DRAWING NO. SHEET 23

REVISIONS

No.	By	Date	Revision
1	CWV	09-02-11	FOR KODW REVIEW

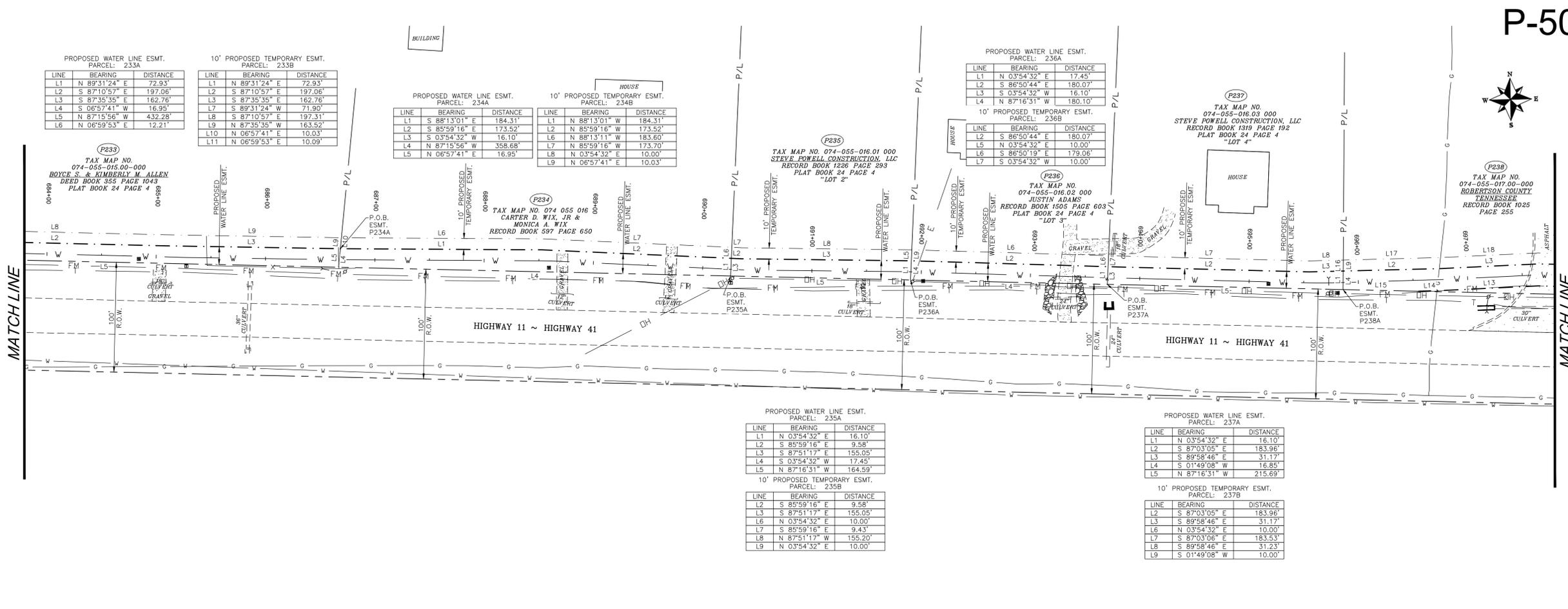
Logan Todd  
Reg. Water Commission  
P.O. Box 400  
Guthrie, KY 42324  
(270) 483-6990

McGhee  
Engineering  
202 Ewing Street  
Guthrie, KY 42341  
(270) 483-9985

AMERICAN ENGINEERS, INC.  
PROFESSIONAL ENGINEERING  
65 Aberdeen Drive  
Glasgow, KY 42141  
(270) 651-7220

**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY
---	PROPERTY LINE
---	ADJOINING PROPERTY LINE
---	EXISTING EASEMENT
---	EDGE OF PAVEMENT
---	EXISTING OVERHEAD WIRES
---	EXISTING UNDERGROUND CULVERT LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND TELEPHONE LINE
---	EXISTING SANITARY SEWER
---	EXISTING GASLINE
---	EXISTING RAILROAD
---	EXISTING TREE LINE
---	F.M. EXISTING FIRE HYDRANT
---	WATER VALVE
---	WATER METER
---	GAS METER
---	EXISTING POWER POLE
---	EXISTING LIGHT POLE (2 LIGHTS)
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING STORM SEWER MANHOLE
---	DROP BOX INLET (DBI)
---	EXISTING TRANSFORMER PAD
---	TELEPHONE PEDESTAL
---	EXISTING TREE
---	SPRINKLER HEAD
---	EXISTING SIGN
---	ELECTRIC JUNCTION BOX
---	EXISTING GUIDE WIRE



**P-50**

SCALE: 1" = 50' (H) 1" = 5' (V)

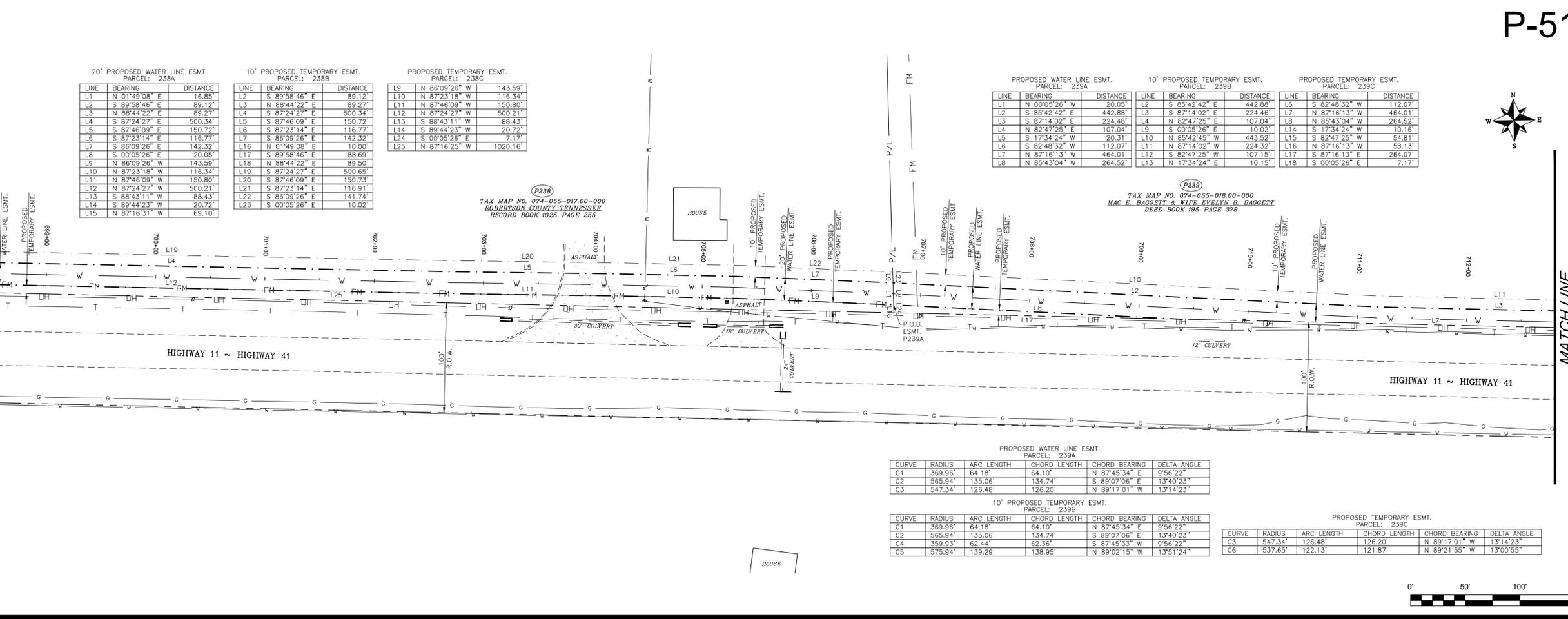
NO.	REVISIONS	DATE	BY
1	FOR KODW REVIEW	09-02-11	CWW

**LTRWC**  
Logan Todd  
Reg. Water Commission

**McGhee**  
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**ABJ**  
AMERICAN ENGINEERS, INC.  
PROFESSIONAL ENGINEERING  
65 Aberdeen Drive  
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FIRM: McGhee  
DES BY: MWM  
CHK BY: ETH  
DWN BY: CWW  
APP BY:  
PROJECT DATE: 2015  
SCALE: AS SHOWN  
PRINTED:  
LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING



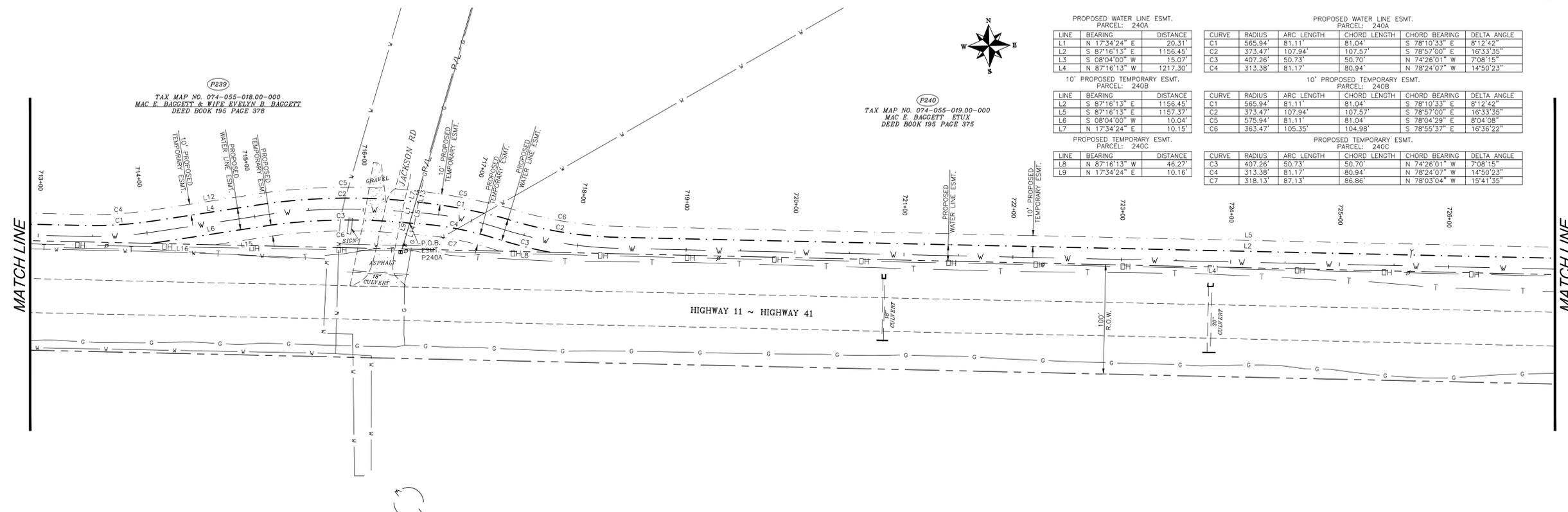
**Logan Todd Regional Water Commission**  
WATER SYSTEM EXPANSION TO SPRINGFIELD (TN)  
Water Line: Plan & Profile

**Quality On Tap!**

DRAWING NO. SHEET 24

**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY
-P.L.-	PROPERTY LINE
-A.D.-	ADJOINING PROPERTY LINE
-E.E.-	EXISTING EASEMENT
-E.P.-	EDGE OF PAVEMENT
-O.H.-	EXISTING OVERHEAD WIRES
-C.-	EXISTING UNDERGROUND ELECTRICAL LINE
-W.-	EXISTING WATER LINE
-T.-	EXISTING UNDERGROUND TELEPHONE LINE
-S.S.-	EXISTING SANITARY SEWER
-G.-	EXISTING GASLINE
-M.P.-	EXISTING MANHOLE
-R.R.-	EXISTING RAILROAD
-T.L.-	EXISTING TREE LINE
-F.H.-	EXISTING FIRE HYDRANT
-W.V.-	WATER VALVE
-G.M.-	GAS METER
-E.M.P.-	EXISTING POWER POLE
-E.L.P.-	EXISTING LIGHT POLE (2 LIGHTS)
-M.P.-	EXISTING SANITARY SEWER MANHOLE
-S.S.M.-	EXISTING STORM SEWER MANHOLE
-D.B.I.-	DROP BOX INLET (DBI)
-T.P.-	EXISTING TRANSFORMER PAD
-P.E.-	TELEPHONE PEDESTAL
-T.-	EXISTING TREE
-S.H.-	SPRINKLER HEAD
-S.-	EXISTING SIGN
-E.J.B.-	ELECTRIC JUNCTION BOX
-G.W.-	EXISTING GUIDE WIRE



PROPOSED WATER LINE ESMT. PARCEL: 240A

LINE	BEARING	DISTANCE
L1	N 17°34'24" E	20.31'
L2	S 87°16'13" E	1156.45'
L3	S 08°04'00" W	15.07'
L4	S 87°16'13" W	1217.30'

10' PROPOSED TEMPORARY ESMT. PARCEL: 240B

LINE	BEARING	DISTANCE
L1	N 17°34'24" E	10.15'
L2	S 87°16'13" E	1156.45'
L3	S 87°16'13" E	1156.37'
L4	S 08°04'00" W	10.04'
L5	S 87°16'13" W	10.15'
L6	S 87°16'13" W	46.27'
L7	N 17°34'24" E	10.16'

PROPOSED WATER LINE ESMT. PARCEL: 240C

LINE	BEARING	DISTANCE
L1	N 17°34'24" E	20.31'
L2	S 87°16'13" E	1156.45'
L3	S 08°04'00" W	15.07'
L4	S 87°16'13" W	1217.30'

10' PROPOSED TEMPORARY ESMT. PARCEL: 240C

LINE	BEARING	DISTANCE
L1	N 17°34'24" E	10.15'
L2	S 87°16'13" E	1156.45'
L3	S 87°16'13" E	1156.37'
L4	S 08°04'00" W	10.04'
L5	S 87°16'13" W	10.15'
L6	S 87°16'13" W	46.27'
L7	N 17°34'24" E	10.16'

SCALE:  
1" = 50' (H)  
1" = 5' (V)

NO.	REVISION	DATE	BY
1	FOR ROW REVIEW	09-02-11	CWW

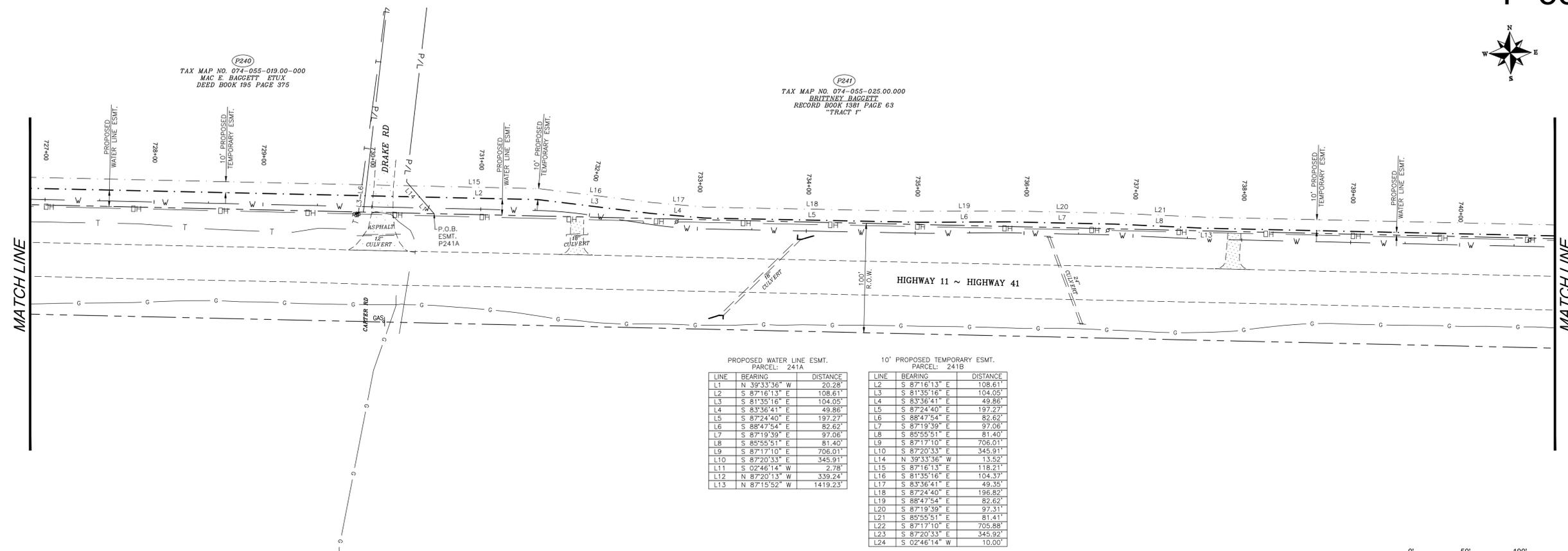
**LTRWC**  
Logan Todd  
Reg. Water Commission

**McGhee**  
Engineering

**ABJ**  
AMERICAN ENGINEERS, INC.  
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P.O. Box 400  
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(270) 483-6990

202 Ewing Street  
Guthrie, KY 42334  
(270) 483-9985



PROPOSED WATER LINE ESMT. PARCEL: 241A

LINE	BEARING	DISTANCE
L1	N 39°33'36" W	20.28'
L2	S 87°16'13" E	108.61'
L3	S 81°35'16" E	104.05'
L4	S 83°36'41" E	49.86'
L5	S 87°24'40" E	197.27'
L6	S 88°47'54" E	82.62'
L7	S 87°19'39" E	97.06'
L8	S 85°55'51" E	81.40'
L9	S 87°17'10" E	706.01'
L10	S 87°20'33" E	345.91'
L11	S 87°20'33" E	345.91'
L12	N 87°20'13" W	339.24'
L13	N 87°15'52" W	1419.23'

10' PROPOSED TEMPORARY ESMT. PARCEL: 241B

LINE	BEARING	DISTANCE
L2	S 87°16'13" E	108.61'
L3	S 81°35'16" E	104.05'
L4	S 83°36'41" E	49.86'
L5	S 87°24'40" E	197.27'
L6	S 88°47'54" E	82.62'
L7	S 87°19'39" E	97.06'
L8	S 85°55'51" E	81.40'
L9	S 87°17'10" E	706.01'
L10	S 87°20'33" E	345.91'
L11	N 39°33'36" W	13.52'
L12	S 87°16'13" E	118.21'
L13	S 81°35'16" E	104.37'
L14	S 83°36'41" E	49.35'
L15	S 87°24'40" E	196.82'
L16	S 88°47'54" E	82.62'
L17	S 87°19'39" E	97.31'
L18	S 85°55'51" E	81.41'
L19	S 87°17'10" E	705.88'
L20	S 87°20'33" E	345.92'
L21	S 87°20'33" E	345.92'
L22	S 87°20'33" E	345.92'
L23	S 87°20'33" E	345.92'
L24	S 02°46'14" W	10.00'

FIRM: McGhee  
DES BY: MWM  
CHK BY: ETH  
DWN BY: CWW  
APP BY:  
SCALE: AS SHOWN  
PROJECT DATE: 2015  
PRINTED:  
LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING

Logan Todd Regional  
Water Commission  
**WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)**  
Water Line: Plan & Profile

**Quality**  
On Tap!

**LEGEND**

SYMBOLS THAT MAY APPEAR ON DRAWING

- RIGHT OF WAY
- - - PROPERTY LINE
- - - ADJOINING PROPERTY LINE
- - - EXISTING EASEMENT
- - - EDGE OF PAVEMENT
- - - EXISTING OVERHEAD WIRES
- - - EXISTING UNDERGROUND ELECTRICAL LINE
- - - EXISTING WATER LINE
- - - EXISTING UNDERGROUND TELEPHONE LINE
- - - EXISTING SANITARY SEWER
- - - EXISTING GASLINE
- - - EXISTING FENCE
- - - EXISTING RAILROAD
- - - EXISTING TREE LINE
- F.H. EXISTING FIRE HYDRANT
- WATER VALVE
- WATER METER
- GAS METER
- EXISTING POWER POLE
- EXISTING LIGHT POLE (2 LIGHTS)
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- DROP BOX INLET (DBI)
- EXISTING TRANSFORMER PAD
- TELEPHONE PEDESTAL
- EXISTING TREE
- SPRINKLER HEAD
- EXISTING SIGN
- ELECTRIC JUNCTION BOX
- EXISTING GUIDE WIRE

PROPOSED WATER LINE ESMT. PARCEL: 241A

LINE	BEARING	DISTANCE
L1	N 39°33'36" W	20.28'
L2	S 87°16'13" E	108.61'
L3	S 81°35'16" E	104.05'
L4	S 83°36'41" E	49.86'
L5	S 87°24'40" E	197.27'
L6	S 88°47'54" E	82.62'
L7	S 87°19'39" E	97.06'
L8	S 85°55'51" E	81.40'
L9	S 87°17'10" E	706.01'
L10	S 87°20'33" E	345.91'
L11	S 87°20'33" E	345.91'
L12	N 02°46'14" W	2.78'
L13	N 87°20'13" W	339.24'
L14	N 87°15'52" W	1419.23'

10' PROPOSED TEMPORARY ESMT. PARCEL: 241B

LINE	BEARING	DISTANCE
L1	S 87°16'13" E	108.61'
L2	S 81°35'16" E	104.05'
L3	S 83°36'41" E	49.86'
L4	S 87°24'40" E	197.27'
L5	S 88°47'54" E	82.62'
L6	S 87°19'39" E	97.06'
L7	S 85°55'51" E	81.40'
L8	S 87°17'10" E	706.01'
L9	S 87°20'33" E	345.91'
L10	N 39°33'36" W	13.52'
L11	S 87°16'13" E	118.21'
L12	S 81°35'16" E	104.37'
L13	S 83°36'41" E	49.35'
L14	S 87°24'40" E	196.82'
L15	S 88°47'54" E	82.62'
L16	S 87°19'39" E	97.31'
L17	S 85°55'51" E	81.41'
L18	S 87°17'10" E	705.88'
L19	S 87°20'33" E	345.92'
L20	S 87°20'33" E	10.00'
L21	S 02°46'14" W	10.00'
L22	S 87°20'33" E	10.00'
L23	S 87°20'33" E	10.00'
L24	S 02°46'14" W	10.00'

PROPOSED WATER LINE ESMT. PARCEL: 242A

LINE	BEARING	DISTANCE
L1	N 02°48'24" E	16.18'
L2	S 87°20'33" E	46.48'
L3	N 84°54'40" E	50.66'
L4	N 84°54'40" E	47.71'
L5	N 88°41'57" E	50.87'
L6	S 87°30'46" E	5.34'
L7	S 02°48'24" W	16.18'
L8	N 87°20'13" W	200.35'

PROPOSED WATER LINE ESMT. PARCEL: 243A

LINE	BEARING	DISTANCE
L1	N 02°48'24" E	16.18'
L2	S 87°30'32" E	200.15'
L3	S 06°40'59" W	16.82'
L4	N 87°20'13" W	199.01'

10' PROPOSED TEMPORARY ESMT. PARCEL: 243B

LINE	BEARING	DISTANCE
L1	S 87°30'32" E	200.15'
L2	N 02°48'24" E	10.00'
L3	S 87°30'25" E	200.82'
L4	S 06°40'59" W	10.02'

10' PROPOSED TEMPORARY ESMT. PARCEL: 242B

LINE	BEARING	DISTANCE
L1	S 87°20'33" E	46.48'
L2	N 84°54'40" E	47.71'
L3	N 88°41'57" E	50.87'
L4	S 87°30'46" E	5.34'
L5	N 02°46'14" E	10.00'
L6	S 87°20'33" E	46.12'
L7	N 88°47'03" E	49.98'
L8	N 84°54'40" E	47.70'
L9	N 88°41'57" E	51.53'
L10	S 87°30'46" E	5.72'
L11	S 02°48'24" W	10.00'

PROPOSED WATER LINE ESMT. PARCEL: 244A

LINE	BEARING	DISTANCE
L1	N 06°40'59" E	16.82'
L2	S 86°55'59" E	353.86'
L3	S 87°34'13" E	68.20'
L4	S 85°30'27" E	29.42'
L5	S 83°45'46" E	178.70'
L6	S 87°08'44" E	226.24'
L7	S 87°08'44" E	226.24'
L8	S 87°16'48" E	450.92'
L9	S 85°13'39" E	256.17'
L10	N 86°11'53" W	219.42'
L11	N 86°38'09" W	143.12'
L12	N 87°03'09" W	201.56'
L13	N 87°23'33" W	82.81'
L14	N 87°24'13" W	382.23'
L15	N 87°09'45" W	761.31'

PROPOSED TEMPORARY ESMT. PARCEL: 244B

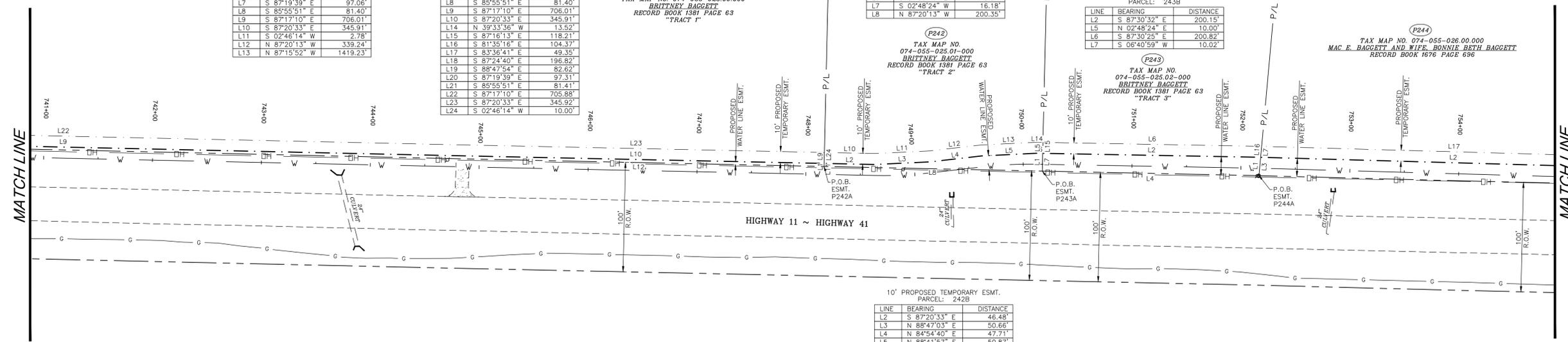
LINE	BEARING	DISTANCE
L1	S 86°55'59" E	353.86'
L2	S 87°34'13" E	68.20'
L3	S 85°30'27" E	29.42'
L4	S 83°45'46" E	178.70'
L5	S 87°08'44" E	226.24'
L6	S 87°08'44" E	226.24'
L7	S 87°16'48" E	450.92'
L8	S 85°13'39" E	256.17'
L9	N 06°40'59" E	10.02'
L10	S 86°55'59" E	353.18'
L11	S 87°34'13" E	68.33'
L12	S 85°30'27" E	29.75'
L13	S 83°45'46" E	178.56'
L14	S 87°08'44" E	226.08'
L15	S 87°08'44" E	226.08'
L16	S 87°16'48" E	451.08'
L17	S 85°13'39" E	762.31'
L18	S 08°32'25" W	9.17'
L19	N 84°46'21" W	47.93'
L20	N 85°03'37" W	190.62'
L21	N 85°26'47" W	130.62'
L22	N 85°46'14" W	136.20'

P-54

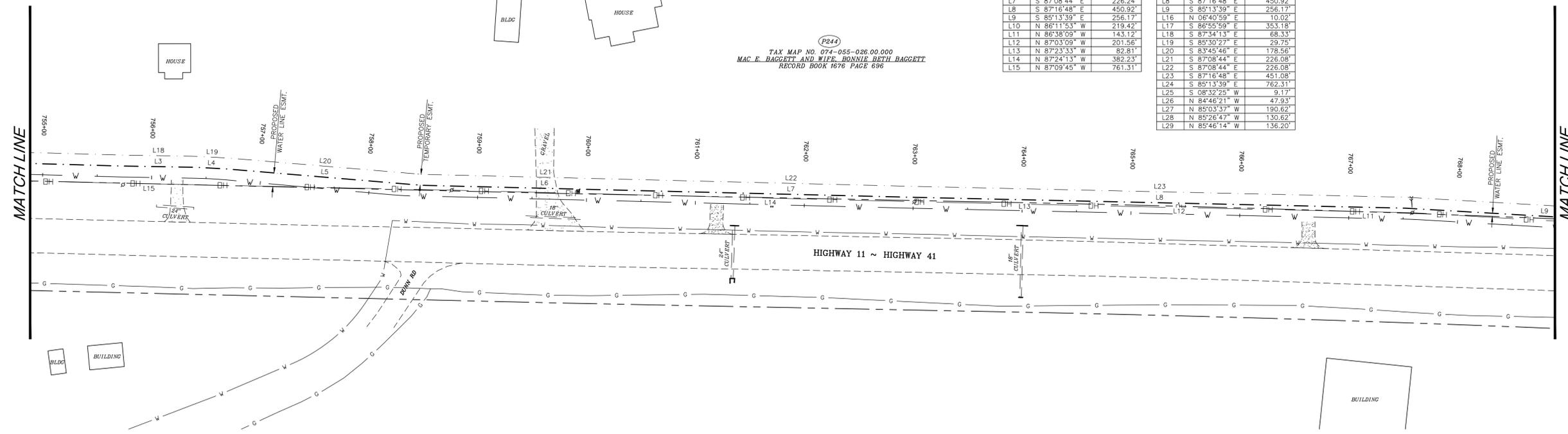


SCALE:  
1" = 50' (H)  
1" = 5' (V)

NO.	REVISION	DATE	BY
1	FOR ROW REVIEW	09-02-11	CWW



P-55



LTRWC  
Logan Todd  
Reg. Water Commission

McGhee  
Engineering

AMERICAN ENGINEERS, INC.  
PROFESSIONAL ENGINEERING  
65 Aberdeen Drive  
Glasgow, KY 42341  
(270) 651-7220

FIRM: McGhee  
DES BY: MWM  
CHK BY: ETH  
DWN BY: CWW  
APP BY:  
SCALE: AS SHOWN  
PROJECT DATE: 2015  
PRINTED:  
LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING

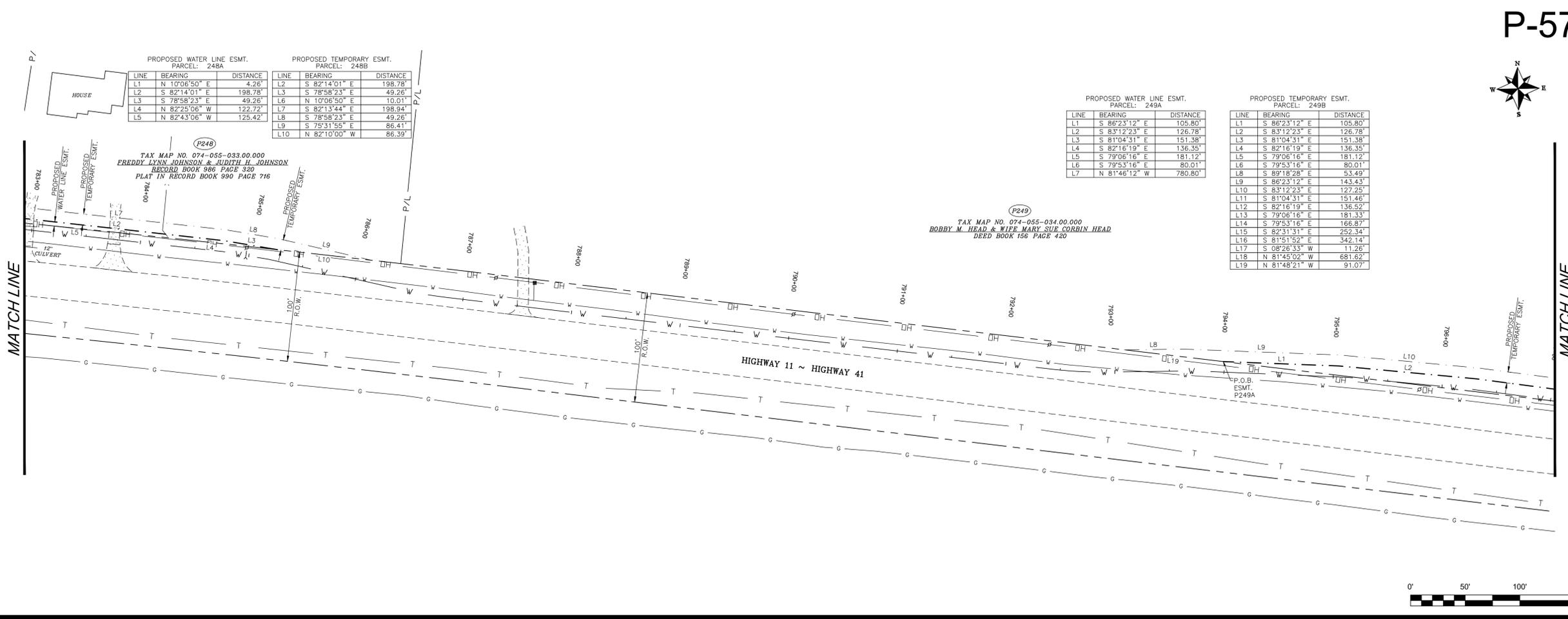
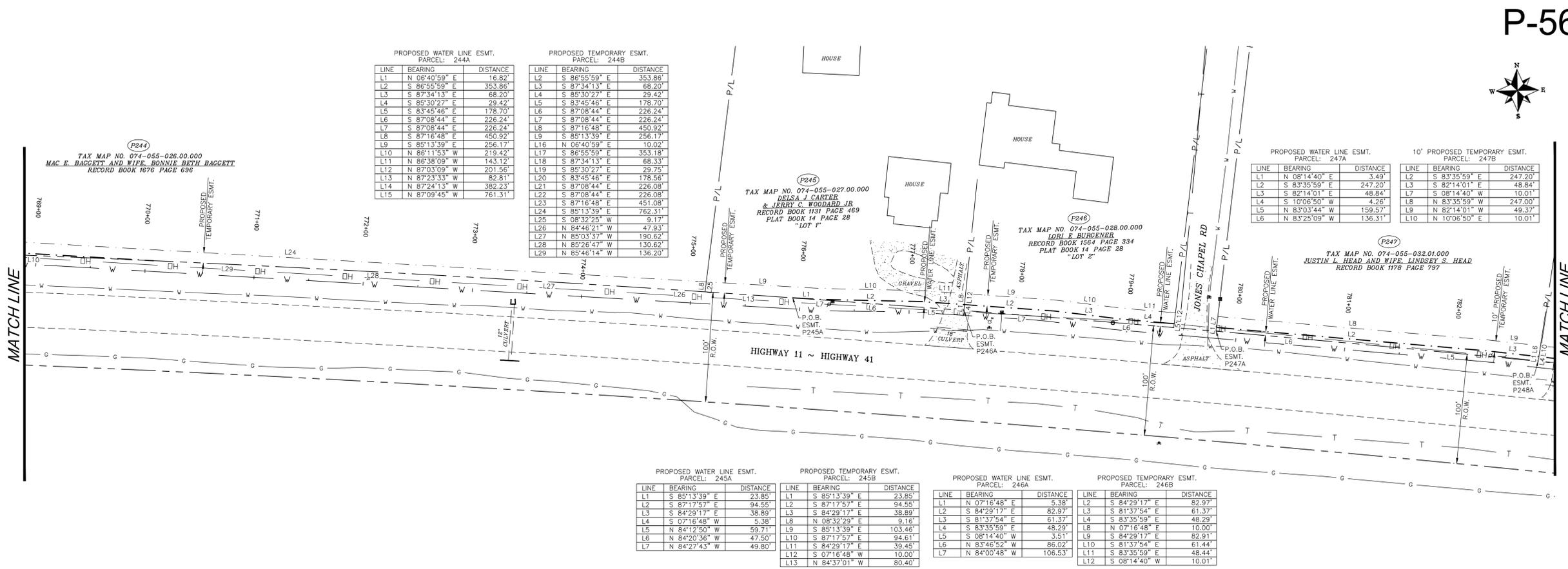
Logan Todd Regional  
Water Commission  
WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)  
Water Line: Plan & Profile

Quality  
On Tap!

DRAWING NO.  
SHEET 26

**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY
- - - -	PROPERTY LINE
- - - -	ADJOINING PROPERTY LINE
- - - -	EXISTING EASEMENT
- - - -	EDGE OF PAVEMENT
- - - -	EXISTING OVERHEAD WIRES
- - - -	EXISTING UNDERGROUND ELECTRICAL LINE
- - - -	EXISTING WATER LINE
- - - -	EXISTING UNDERGROUND TELEPHONE LINE
- - - -	EXISTING SANITARY SEWER
- - - -	EXISTING GASLINE
- - - -	EXISTING FENCE
- - - -	EXISTING RAILROAD
- - - -	EXISTING TREE LINE
- - - -	F.H. EXISTING FIRE HYDRANT
- - - -	WATER VALVE
- - - -	WATER METER
- - - -	GAS METER
- - - -	EXISTING POWER POLE
- - - -	EXISTING LIGHT POLE (2 LIGHTS)
- - - -	EXISTING SANITARY SEWER MANHOLE
- - - -	EXISTING STORM SEWER MANHOLE
- - - -	DROP BOX INLET (DBI)
- - - -	EXISTING TRANSFORMER PAD
- - - -	TELEPHONE PEDESTAL
- - - -	EXISTING TREE
- - - -	SPRINKLER HEAD
- - - -	EXISTING SIGN
- - - -	ELECTRIC JUNCTION BOX
- - - -	EXISTING GUIDE WIRE



**P-56**

SCALE: 1" = 50' (H) 1" = 5' (V)

NO.	REVISION	DATE	BY
1	FOR KODW REVIEW	09-02-11	CWW

Logan Todd  
Reg. Water Commission

McGhee  
Engineering

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Guthrie, KY 42334  
(270) 483-6990

**P-57**

LOGAN TODD REGIONAL WATER COMMISSION  
WATER SYSTEM EXPANSION TO SPRINGFIELD (TN)  
Water Line: Plan & Profile

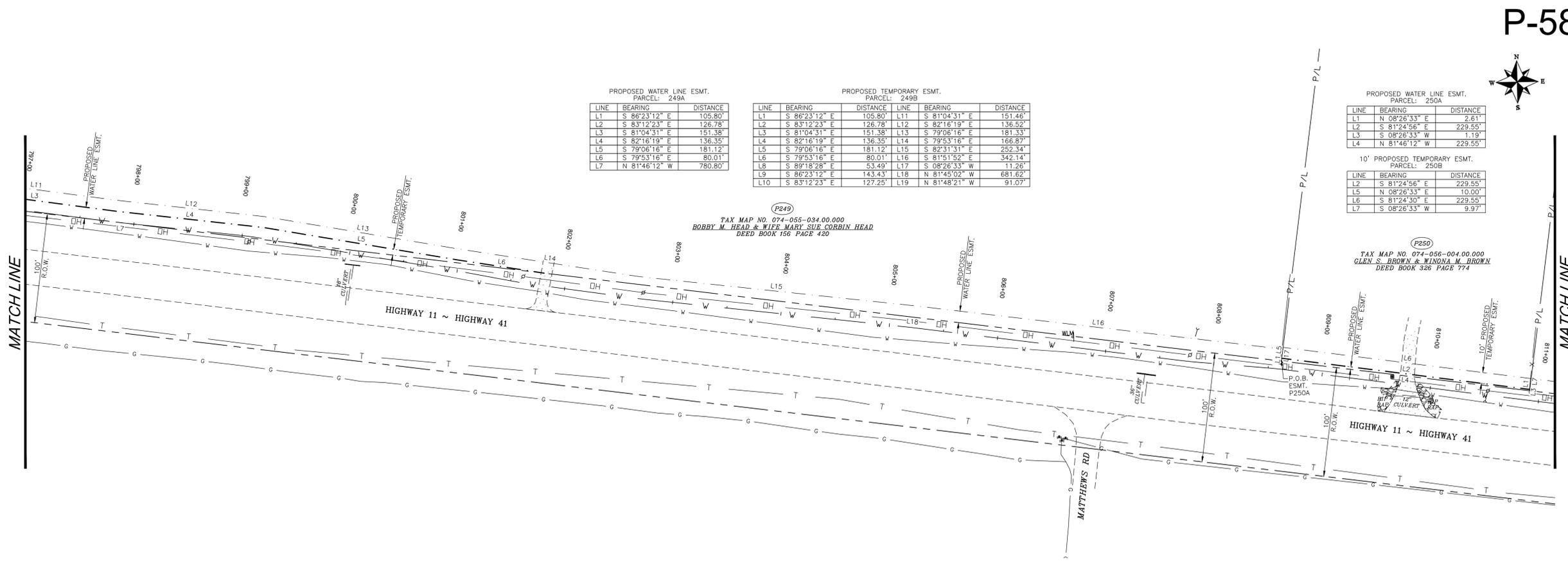
DES BY: MWM CHK BY: ETH  
DWN BY: CWW APP BY:  
SCALE: AS SHOWN  
PROJECT DATE: 2015  
PRINTED:  
LENGTH OF BAR IS 1" ON ORIGINAL DRAWING

0' 50' 100' 150'

DRAWING NO. SHEET 27

**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

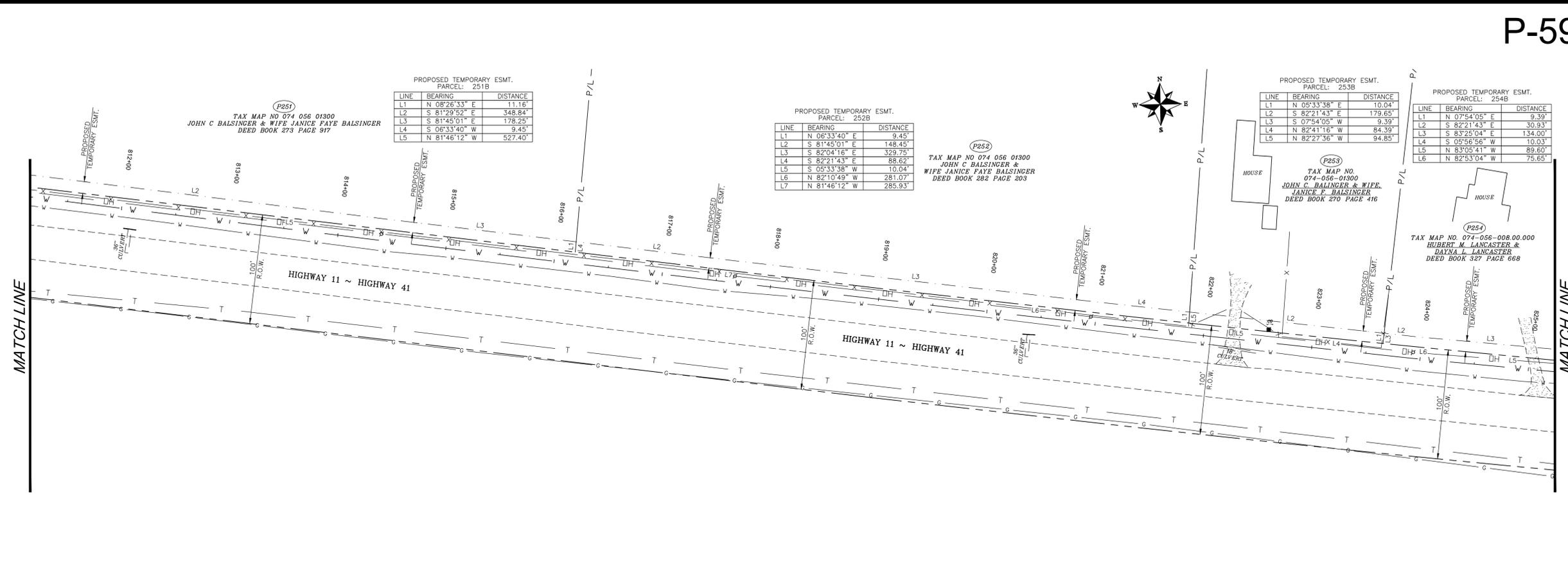
---	RIGHT OF WAY
- - -	PROPERTY LINE
- - -	ADJOINING PROPERTY LINE
- - -	EXISTING EASEMENT
- - -	EDGE OF PAVEMENT
- - -	EXISTING OVERHEAD WIRES
- - -	EXISTING UNDERGROUND ELECTRICAL LINE
- - -	EXISTING WATER LINE
- - -	EXISTING UNDERGROUND TELEPHONE LINE
- - -	EXISTING SANITARY SEWER
- - -	EXISTING GASLINE
- - -	EXISTING RAILROAD
- - -	EXISTING TREE LINE
○	F.H. EXISTING FIRE HYDRANT
○	WATER VALVE
○	WATER METER
○	GAS METER
○	EXISTING POWER POLE
○	EXISTING LIGHT POLE (2 LIGHTS)
○	EXISTING SANITARY SEWER MANHOLE
○	EXISTING STORM SEWER MANHOLE
○	DROP BOX (INLET, DBI)
○	EXISTING TRANSFORMER PAD
○	TELEPHONE PEDESTAL
○	EXISTING TREE
○	SPRINKLER HEAD
○	EXISTING SIGN
○	ELECTRIC JUNCTION BOX
○	EXISTING GUIDE WIRE



P-58

SCALE: 1" = 50' (H)  
1" = 5' (V)

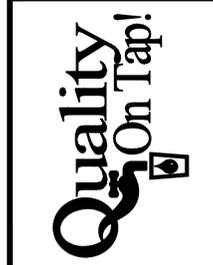
NO.	REVISION	DATE	BY
1	FOR R.O.W. REVIEW	09-02-11	CWW



P-59

FIRM: McGhee  
DES BY: MWM  
CHK BY: ETH  
DWN BY: CWW  
APP BY:  
SCALE: AS SHOWN  
PROJECT DATE: 2015  
PRINTED:  
LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING

Logan Todd Regional  
Water Commission  
WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)  
Water Line: Plan & Profile



DRAWING NO. SHEET 28

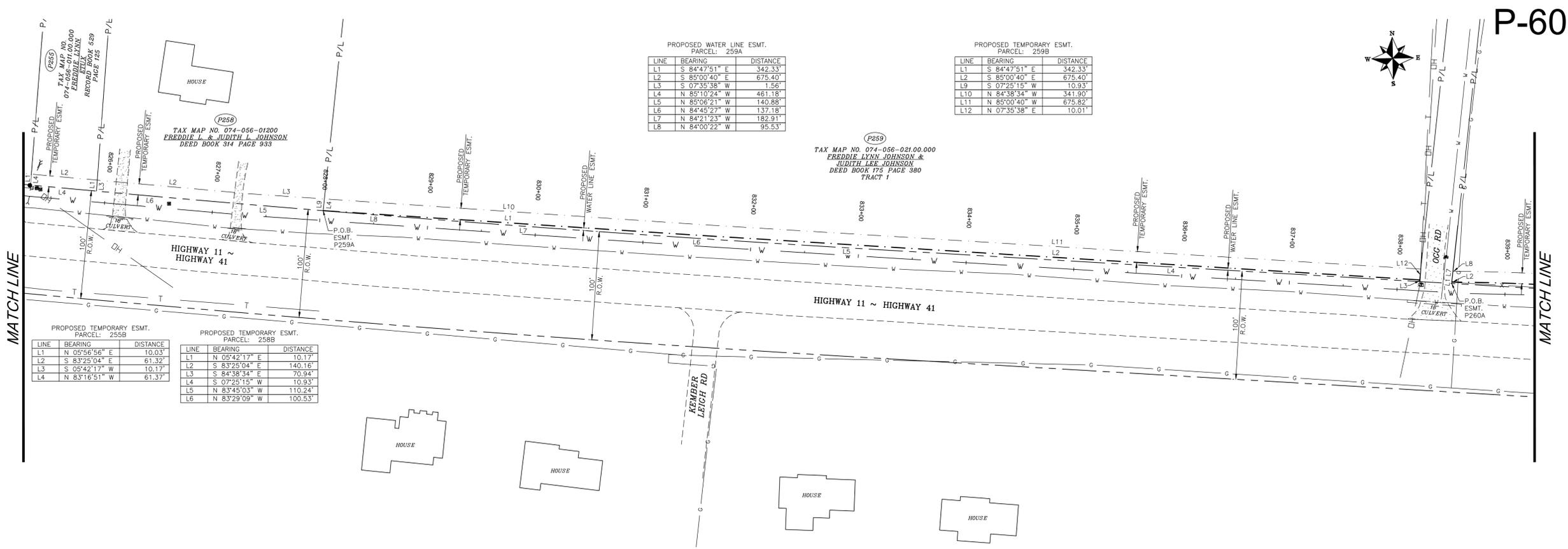
**LTRWC**  
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Reg. Water Commission  
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(270) 483-6990

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(270) 483-9985

**ABJ**  
AMERICAN ENGINEERS, INC.  
PROFESSIONAL ENGINEERING  
65 Aberdeen Drive  
Glasgow, KY 42141  
(270) 651-7220

**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY
- - -	PROPERTY LINE
- - -	ADJOINING PROPERTY LINE
- - -	EXISTING EASEMENT
- - -	EDGE OF PAVEMENT
- - -	EXISTING OVERHEAD WIRES
- - -	EXISTING UNDERGROUND ELECTRICAL LINE
- - -	EXISTING WATER LINE
- - -	EXISTING UNDERGROUND TELEPHONE LINE
- - -	EXISTING SANITARY SEWER
- - -	EXISTING GASLINE
- - -	EXISTING FENCE
- - -	EXISTING RAILROAD
- - -	EXISTING TREE LINE
○	F.H. EXISTING FIRE HYDRANT
○	WATER VALVE
○	WATER METER
○	GAS METER
○	EXISTING POWER POLE
○	EXISTING LIGHT POLE (2 LIGHTS)
○	EXISTING SANITARY SEWER MANHOLE
○	EXISTING STORM SEWER MANHOLE
○	DROP BOX (INLET) (DB)
○	EXISTING TRANSFORMER PAD
○	TELEPHONE PEDESTAL
○	EXISTING TREE
○	SPRINKLER HEAD
○	EXISTING SIGN
○	ELECTRIC JUNCTION BOX
○	EXISTING GUIDE WIRE



PROPOSED TEMPORARY ESMT.  
PARCEL: 255B

LINE	BEARING	DISTANCE
L1	N 05°46'56" E	10.03'
L2	S 83°25'04" E	61.32'
L3	S 05°42'17" W	10.17'
L4	N 83°16'51" W	61.37'

PROPOSED TEMPORARY ESMT.  
PARCEL: 258B

LINE	BEARING	DISTANCE
L1	N 05°42'17" E	10.17'
L2	S 83°25'04" E	140.16'
L3	S 84°38'34" E	70.94'
L4	S 07°25'15" W	10.93'
L5	N 83°45'03" W	110.24'
L6	N 83°29'09" W	100.53'

PROPOSED WATER LINE ESMT.  
PARCEL: 259A

LINE	BEARING	DISTANCE
L1	S 84°47'51" E	342.33'
L2	S 85°00'40" E	675.40'
L3	S 07°35'38" W	1.56'
L4	N 85°10'24" W	461.18'
L5	N 85°06'21" W	140.88'
L6	N 84°45'27" W	137.18'
L7	N 84°21'23" W	182.91'
L8	N 84°00'22" W	95.53'

PROPOSED TEMPORARY ESMT.  
PARCEL: 259B

LINE	BEARING	DISTANCE
L1	S 84°47'51" E	342.33'
L2	S 85°00'40" E	675.40'
L9	S 07°25'15" W	10.93'
L10	N 84°38'34" W	341.90'
L11	N 85°00'40" W	675.82'
L12	N 07°35'38" E	10.01'

P-60

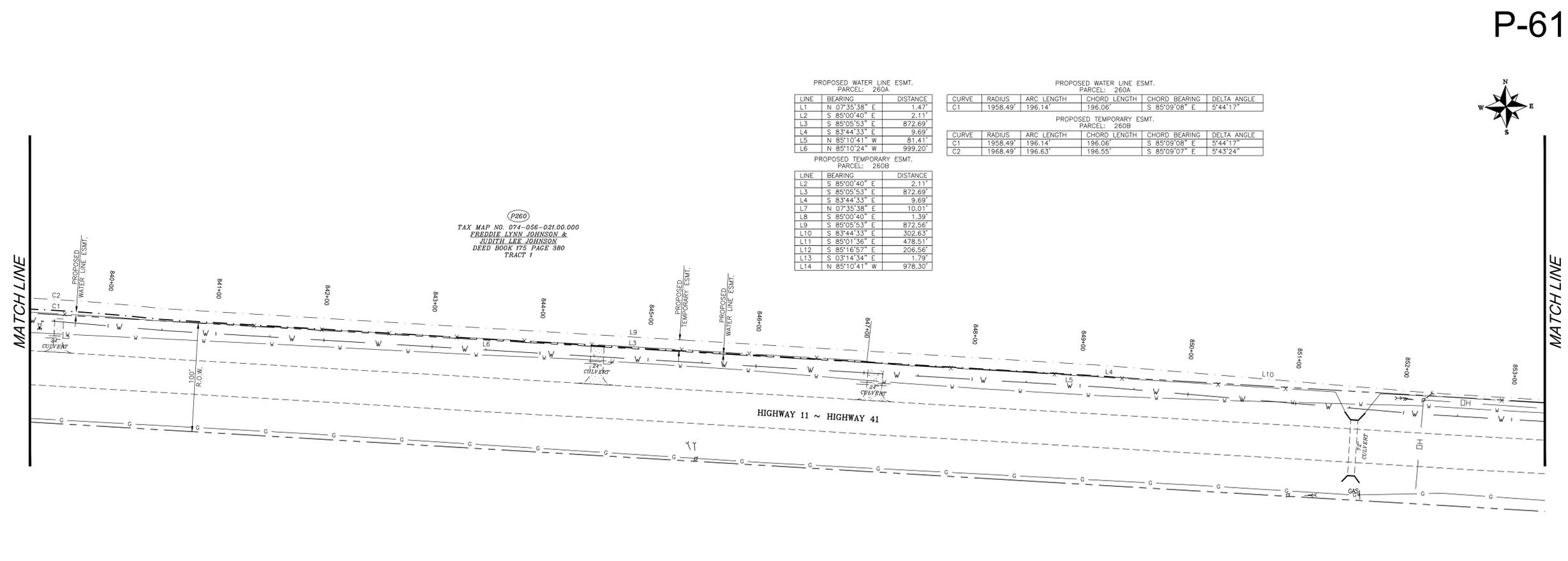
SCALE:  
1" = 50' (H)  
1" = 5' (V)

NO.	REVISION	DATE	BY
1	FOR R.O.W. REVIEW	09-02-11	CWW

**LTRWC**  
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Reg. Water Commission  
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Glasgow, KY 42141  
(270) 651-7220



PROPOSED WATER LINE ESMT.  
PARCEL: 260A

LINE	BEARING	DISTANCE
L1	N 07°35'38" E	1.47'
L2	S 85°00'40" E	2.11'
L3	S 85°05'53" E	872.69'
L4	S 83°44'33" E	9.69'
L5	N 85°10'41" W	81.41'
L6	N 85°10'24" W	999.20'

PROPOSED TEMPORARY ESMT.  
PARCEL: 260B

LINE	BEARING	DISTANCE
L2	S 85°00'40" E	2.11'
L3	S 85°05'53" E	872.69'
L4	S 83°44'33" E	9.69'
L7	N 07°35'38" E	10.01'
L8	S 85°00'40" E	1.39'
L9	S 85°05'53" E	872.56'
L10	S 83°44'33" E	302.63'
L11	S 85°01'36" E	478.51'
L12	S 85°16'57" E	206.56'
L13	S 03°14'34" E	1.79'
L14	N 85°10'41" W	978.30'

PROPOSED WATER LINE ESMT.  
PARCEL: 260A

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	1958.49'	196.14'	196.06'	S 85°09'08" E	5°44'17"

PROPOSED TEMPORARY ESMT.  
PARCEL: 260B

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	1958.49'	196.14'	196.06'	S 85°09'08" E	5°44'17"
C2	1968.49'	196.63'	196.55'	S 85°09'07" E	5°43'24"

P-61

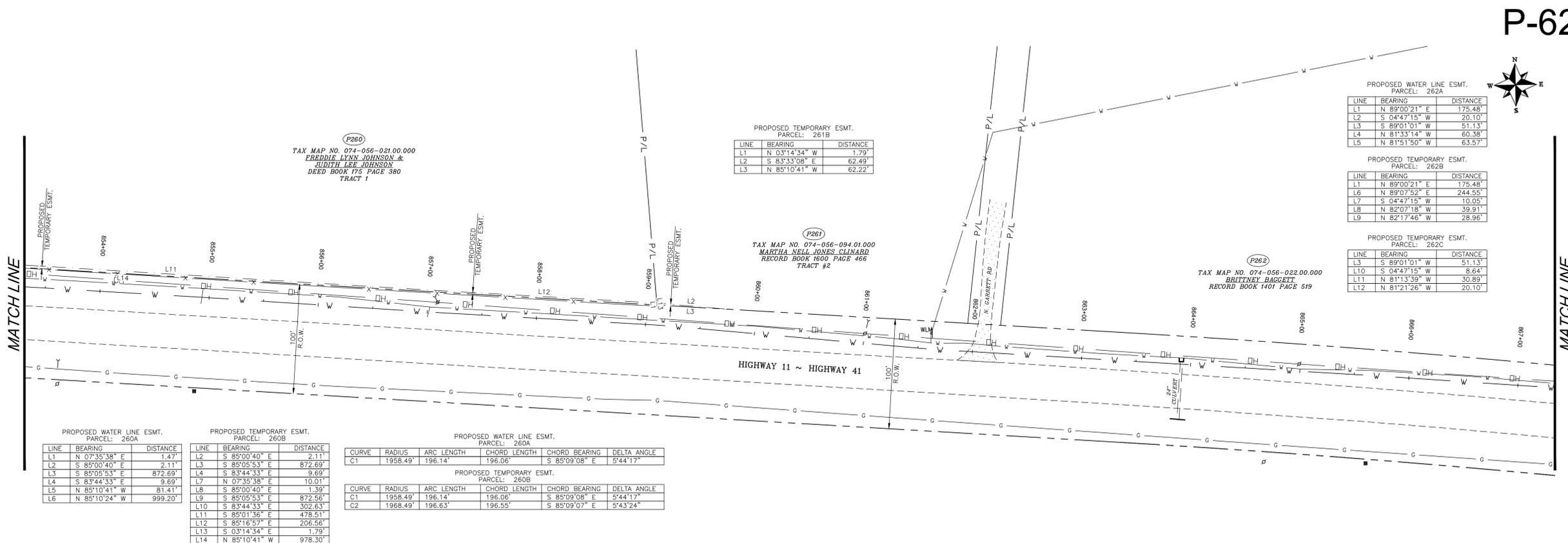
FIRM: McGhee  
DES BY: MWM  
CHK BY: ETH  
DWN BY: CWW  
APP BY:  
PROJECT DATE: 2015  
SCALE: AS SHOWN  
PRINTED:  
LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING

Logan Todd Regional  
Water Commission  
**WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)**  
Water Line: Plan & Profile

**Quality On Tap!**

**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY
- - -	PROPERTY LINE
- - -	ADJOINING PROPERTY LINE
- - -	EXISTING EASEMENT
- - -	EDGE OF PAVEMENT
- - -	EXISTING OVERHEAD WIRES
- - -	EXISTING UNDERGROUND ELECTRICAL LINE
- - -	EXISTING WATER LINE
- - -	EXISTING UNDERGROUND TELEPHONE LINE
- - -	EXISTING SANITARY SEWER
- - -	EXISTING GASLINE
- - -	EXISTING FENCE
- - -	EXISTING RAILROAD
- - -	EXISTING TREE LINE
○	F.H. EXISTING FIRE HYDRANT
○	WATER VALVE
○	WATER METER
○	GAS METER
○	EXISTING POWER POLE
○	EXISTING LIGHT POLE (2 LIGHTS)
○	EXISTING SANITARY SEWER MANHOLE
○	EXISTING STORM SEWER MANHOLE
○	DROP BOX INLET (DBI)
○	EXISTING TRANSFORMER PAD
○	TELEPHONE PEDESTAL
○	EXISTING TREE
○	SPRINKLER HEAD
○	EXISTING SIGN
○	ELECTRIC JUNCTION BOX
○	EXISTING GUIDE WIRE



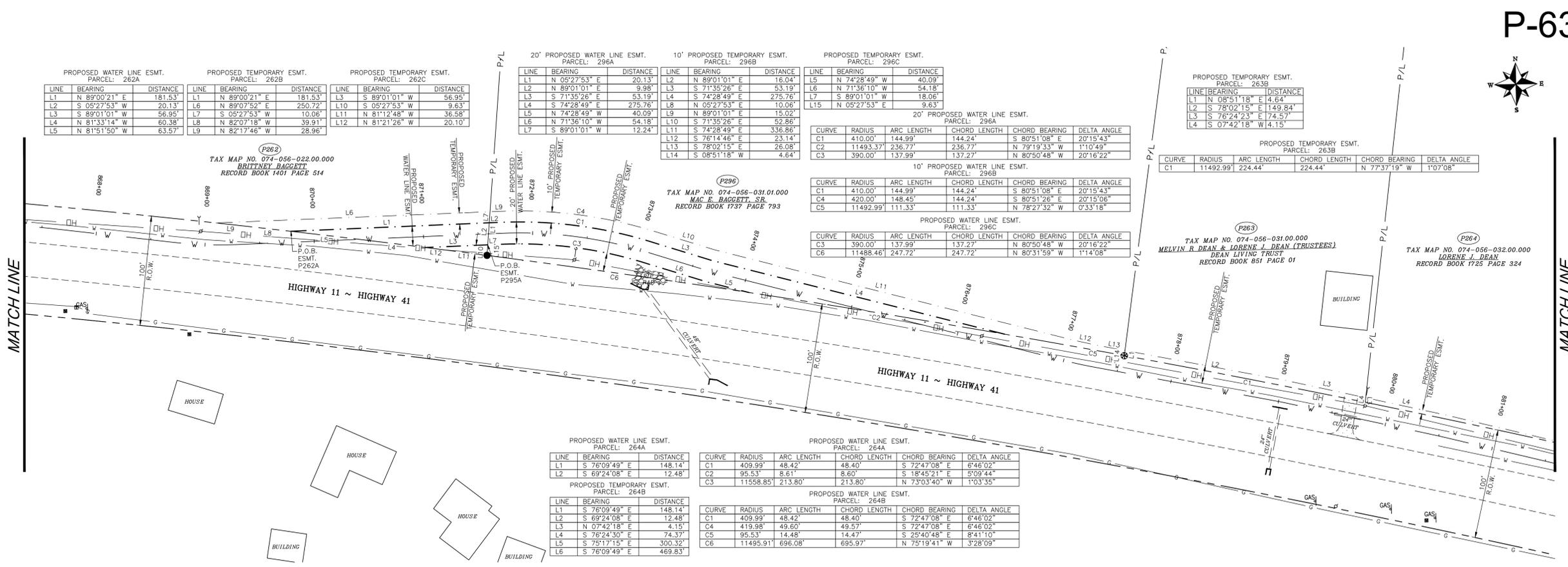
**SCALE:**  
1" = 50' (H)  
1" = 5' (V)

NO.	DATE	REVISIONS
1	09-02-11	CW
2		BY

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Logan Todd  
Reg. Water Commission

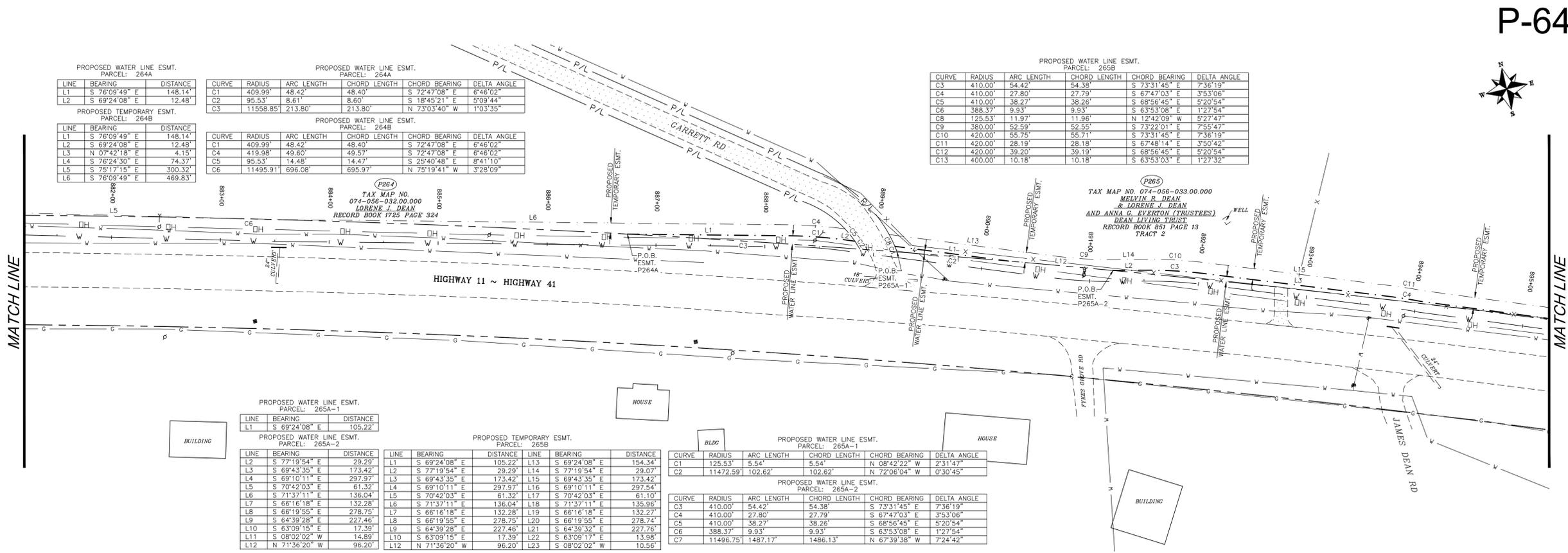
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**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY
- - -	PROPERTY LINE
- - -	ADJOINING PROPERTY LINE
- - -	EXISTING EASEMENT
- - -	EDGE OF PAVEMENT
- - -	EXISTING OVERHEAD WIRES
- - -	EXISTING UNDERGROUND ELECTRICAL LINE
- - -	EXISTING WATER LINE
- - -	EXISTING UNDERGROUND TELEPHONE LINE
- - -	EXISTING SANITARY SEWER
- - -	EXISTING GASLINE
- - -	EXISTING EXISTING
- - -	EXISTING RAILROAD
- - -	EXISTING TREE LINE
- - -	F.H. EXISTING FIRE HYDRANT
- - -	WATER VALVE
- - -	WATER METER
- - -	GAS METER
- - -	EXISTING POWER POLE
- - -	EXISTING LIGHT POLE (2 LIGHTS)
- - -	EXISTING SANITARY SEWER MANHOLE
- - -	EXISTING STORM SEWER MANHOLE
- - -	DROP BOX INLET (DBI)
- - -	EXISTING TRANSFORMER PAD
- - -	TELEPHONE PEDESTAL
- - -	EXISTING TREE
- - -	SPRINKLER HEAD
- - -	EXISTING SIGN
- - -	ELECTRIC JUNCTION BOX
- - -	EXISTING GUIDE WIRE



P-64

SCALE:  
1" = 50' (H)  
1" = 5' (V)

NO.	REVISIONS
09-02-11	CWW
09-02-11	By

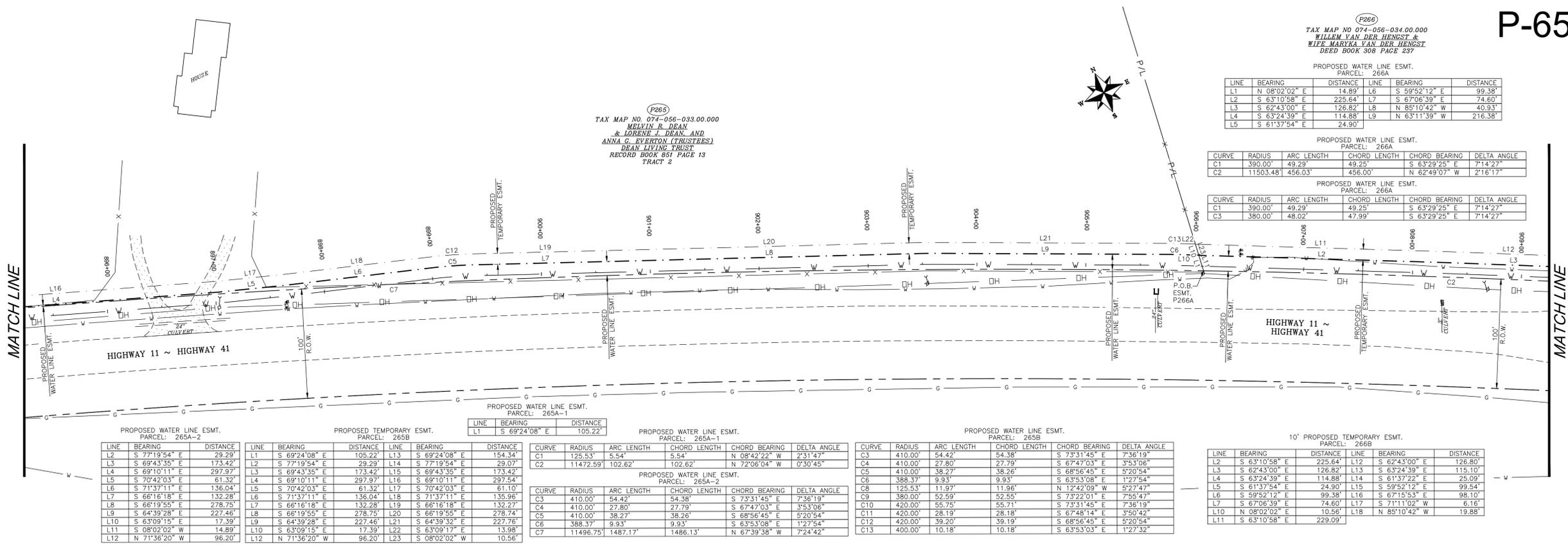
**LTRWC**  
Logan Todd  
Reg. Water Commission

**McGhee**  
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(270) 651-7220

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(270) 483-6990

202 Ewing Street  
Guthrie, KY 42334  
(270) 483-9985



P-65

SCALE:  
1" = 50' (H)  
1" = 5' (V)

LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING

**Logan Todd Regional Water Commission**  
WATER SYSTEM EXPANSION TO SPRINGFIELD (TN)  
Water Line: Plan & Profile

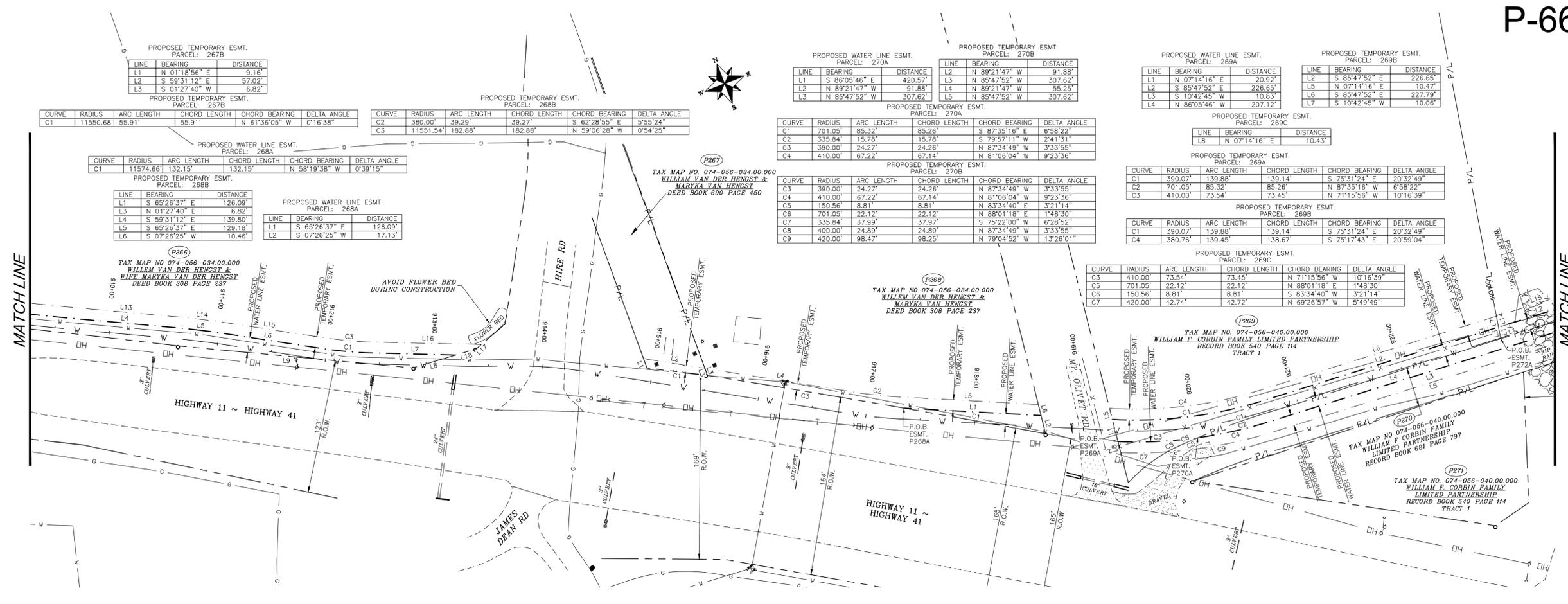
**Quality On Tap!**

DRAWING NO. SHEET 31



**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY
---	PROPERTY LINE
---	ADJOINING PROPERTY LINE
---	EXISTING EASEMENT
---	EDGE OF PAVEMENT
DH	EXISTING OVERHEAD WIRES
---	EXISTING UNDERGROUND ELECTRICAL LINE
---	EXISTING WATER LINE
---	EXISTING UNDERGROUND TELEPHONE LINE
---	EXISTING SANITARY SEWER
---	EXISTING GASLINE
---	EXISTING FENCE
---	EXISTING RAILROAD
---	EXISTING TREE LINE
F.H.	EXISTING FIRE HYDRANT
---	WATER VALVE
---	WATER METER
---	GAS METER
---	EXISTING POWER POLE
---	EXISTING LIGHT POLE (LIGHTS)
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING STORM SEWER MANHOLE
---	DROP BOX (DB)
---	EXISTING TRANSFORMER PAD
---	TELEPHONE PEDESTAL
---	EXISTING TREE
---	SPRINKLER HEAD
---	EXISTING SIGN
---	ELECTRIC JUNCTION BOX
---	EXISTING GUIDE WIRE



**P-66**

SCALE:  
1" = 50' (H)  
1" = 5' (V)

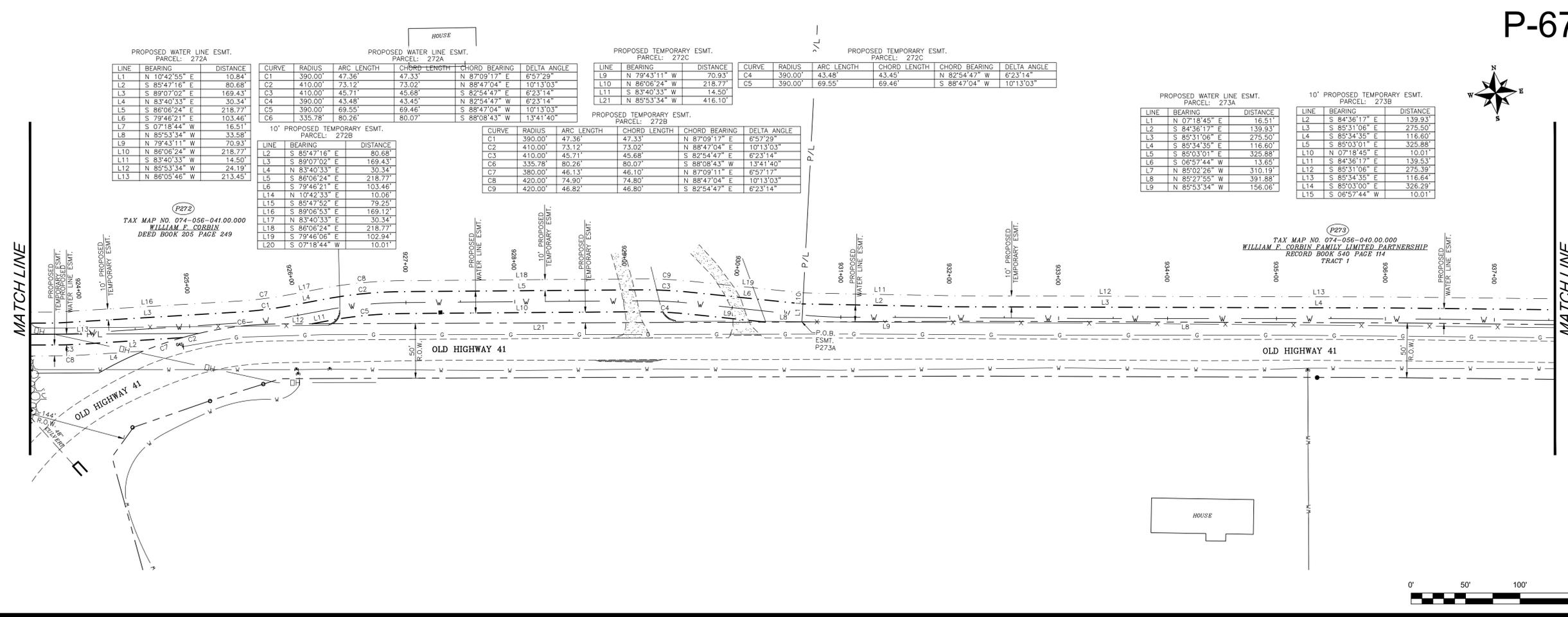
NO.	REVISIONS	DATE	BY
1	FOR ROW REVIEW	09-02-11	CWW

**LTRWC**  
Logan Todd  
Reg. Water Commission

**McGhee**  
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Glasgow, KY 42141  
(270) 651-7220



**P-67**

SCALE:  
1" = 50' (H)  
1" = 5' (V)

LENGTH OF BAR IS 1" ON ORIGINAL DRAWING

**Logan Todd Regional Water Commission**

**WATER SYSTEM EXPANSION TO SPRINGFIELD (TN)**

Water Line: Plan & Profile

**Quality On Tap!**

DRAWING NO. SHEET **32**

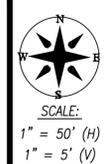
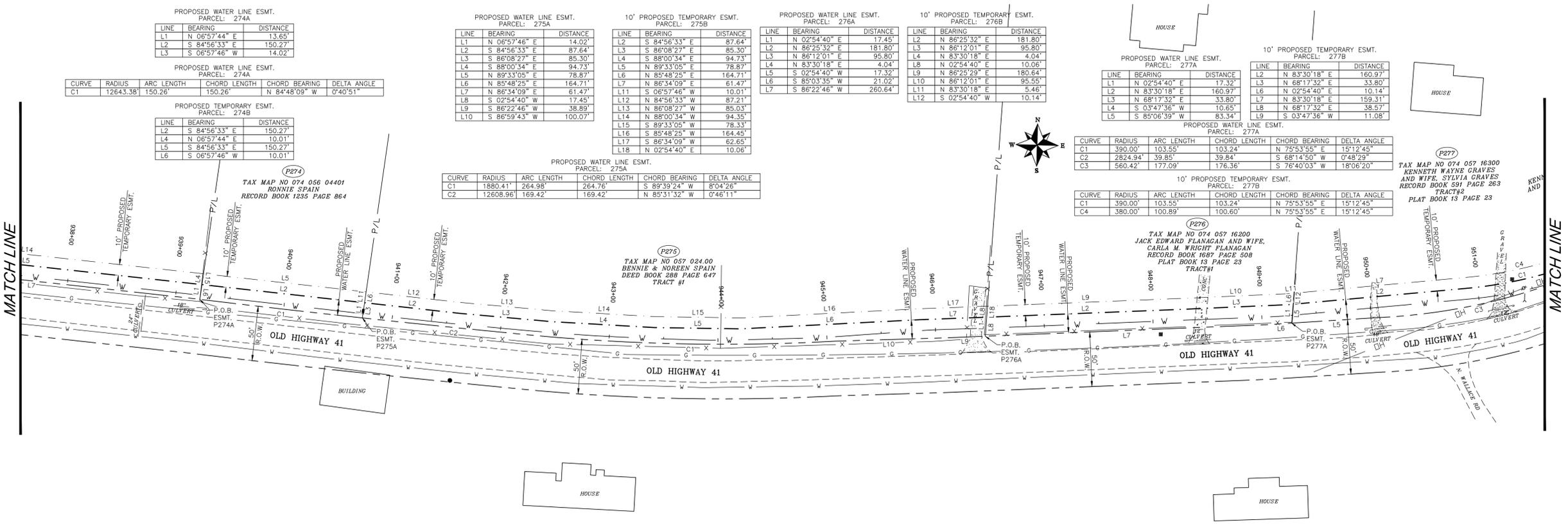


Table with columns for No., Date, Revision, and Revisions. Includes a signature line for Logan Todd, Reg. Water Commissioner.

LEGEND: SYMBOLS THAT MAY APPEAR ON DRAWING. Lists various symbols for utility lines, easements, structures, and features.

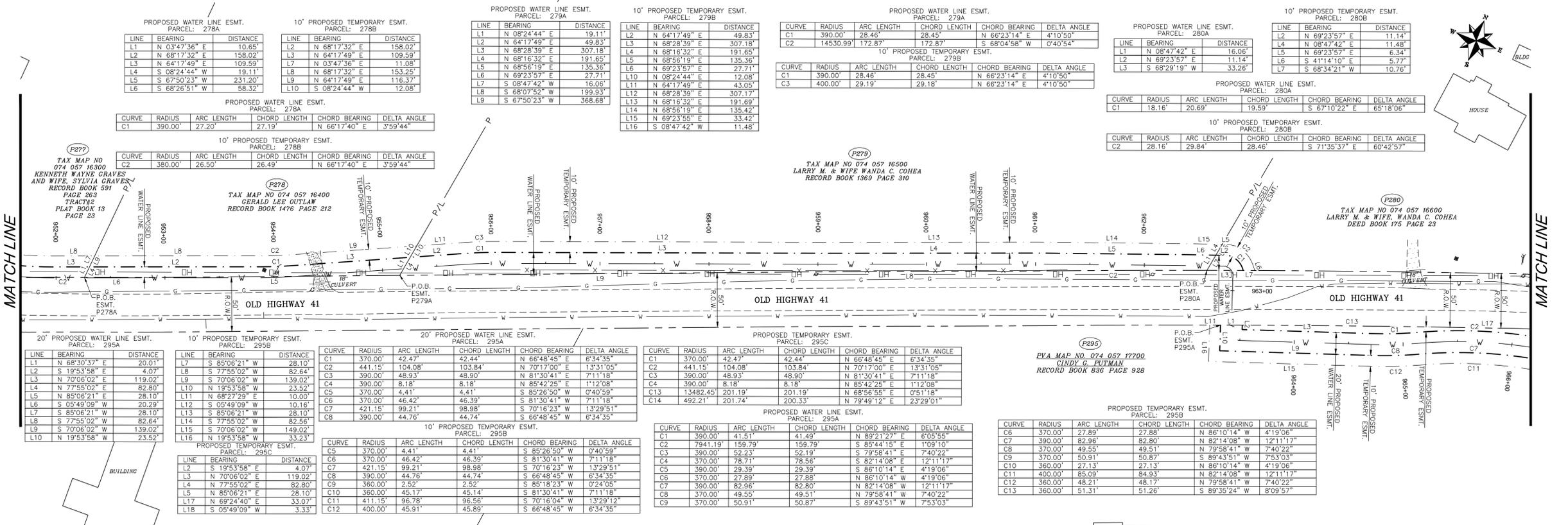


MATCH LINE

MATCH LINE



Table with columns for No., Date, Revision, and Revisions. Includes a signature line for Logan Todd, Reg. Water Commissioner.



MATCH LINE

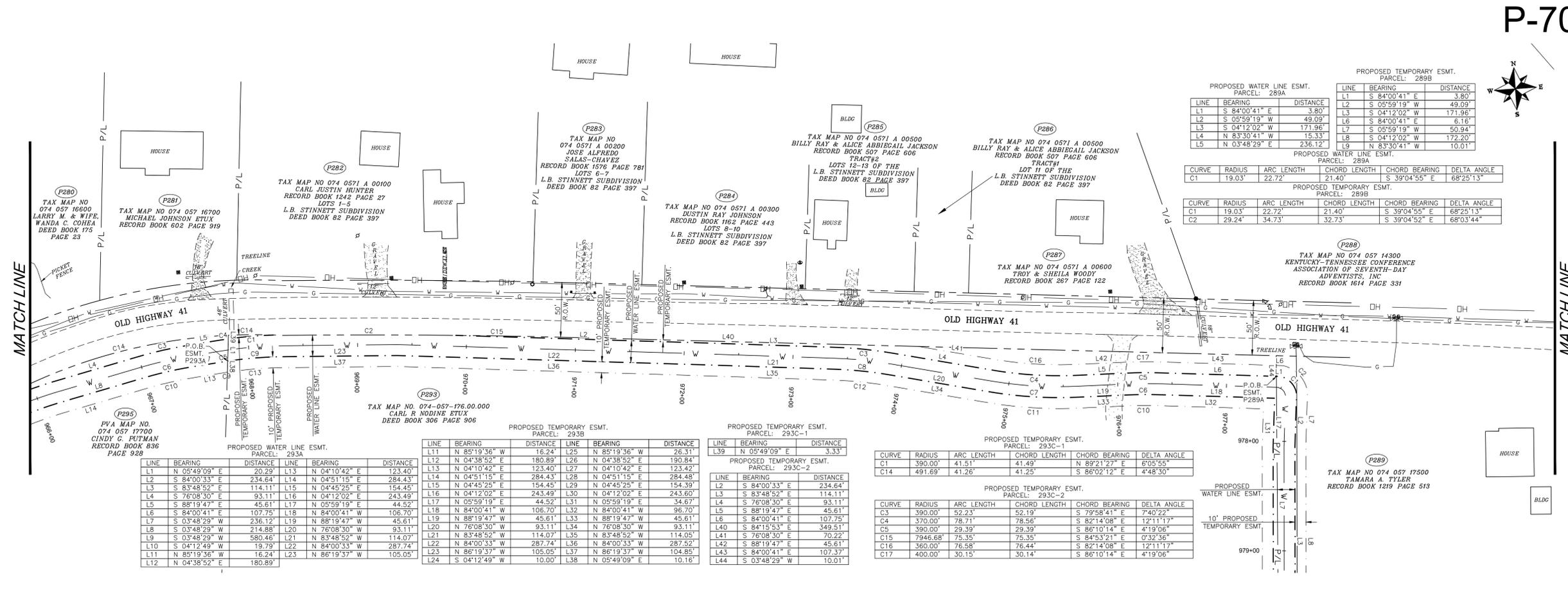
MATCH LINE

Logan Todd Regional Water Commission WATER SYSTEM EXPANSION TO SPRINGFIELD (TN) Water Line: Plan & Profile

Quality On Tap! logo and text.

**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

---	RIGHT OF WAY
- - -	PROPERTY LINE
- - -	ADJOINING PROPERTY LINE
- - -	EXISTING EASEMENT
- - -	EDGE OF PAVEMENT
DH	EXISTING OVERHEAD WIRES
C	EXISTING UNDERGROUND ELECTRICAL LINE
V	EXISTING WATER LINE
SS	EXISTING UNDERGROUND TELEPHONE LINE
SS	EXISTING SANITARY SEWER
X	EXISTING GASLINE
X	EXISTING FENCE
---	EXISTING RAILROAD
---	EXISTING TREE LINE
○	F.H. EXISTING FIRE HYDRANT
○	WATER VALVE
○	WATER METER
○	GAS METER
○	EXISTING POWER POLE
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○	EXISTING SANITARY SEWER MANHOLE
○	EXISTING STORM SEWER MANHOLE
○	DROP BOX INLET (DBI)
○	EXISTING TRANSFORMER PAD
○	TELEPHONE PEDESTAL
○	EXISTING TREE
○	SPRINKLER HEAD
○	EXISTING SIGN
○	ELECTRIC JUNCTION BOX
○	EXISTING GUIDE WIRE



**P-70**

SCALE:  
1" = 50' (H)  
1" = 5' (V)

NO.	REVISIONS
1	FOR ROW REVIEW
2	DATE
3	BY
4	DATE
5	BY

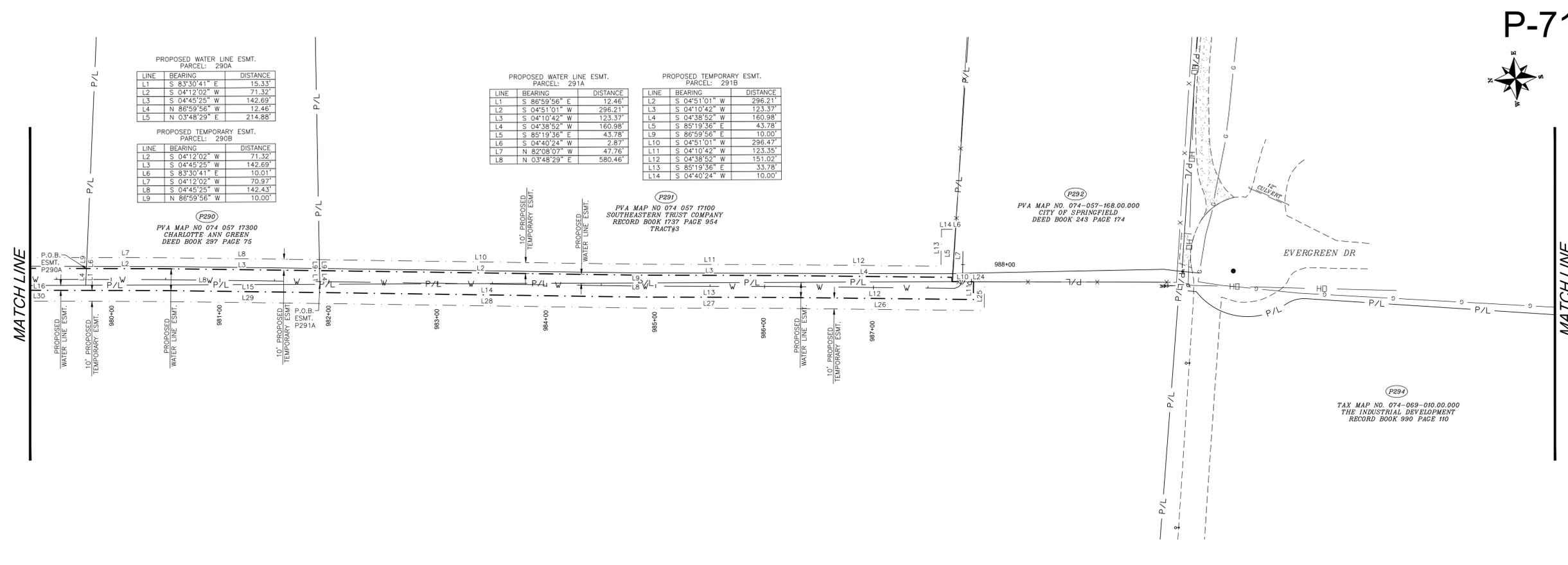
**LTRWC**  
Logan Todd  
Reg. Water Commission

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**P-71**

FIRM: McGhee  
DES BY: MMW  
CHK BY: ETH  
DWN BY: CWV  
APP BY:  
SCALE: AS SHOWN  
PROJECT DATE: 2015  
PRINTED:  
LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING

Logan Todd Regional  
Water Commission  
**WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)**  
Water Line: Plan & Profile

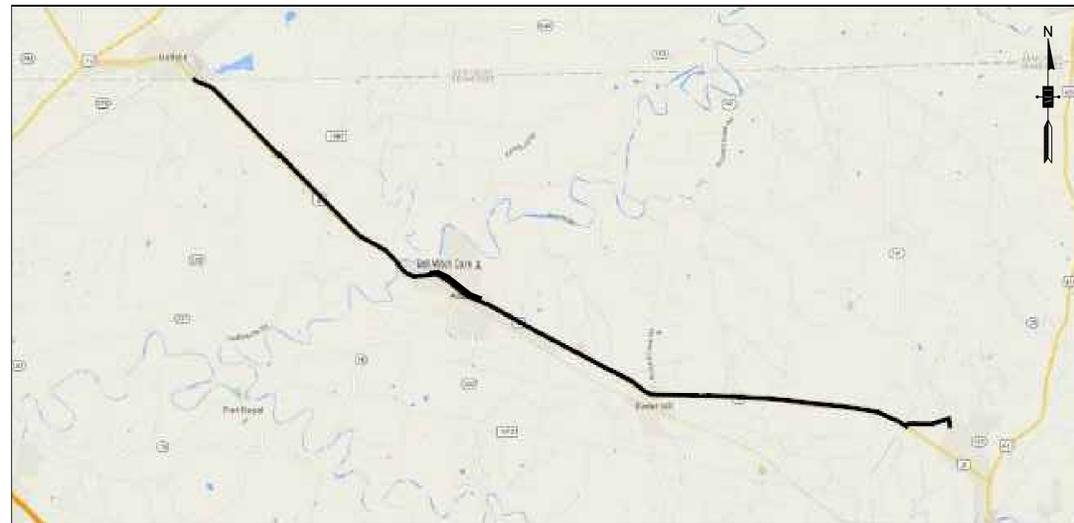
**Quality On Tap!**



# LOGAN TODD REGIONAL WATER COMMISSION

## WATER SYSTEM EXPANSION TO SPRINGFIELD (TN)

### (ADAMS REVISION)



LOCATION MAP  
NOT TO SCALE

#### LEGEND / ABBREVIATIONS

##### ABBREVIATIONS

A	AREA	(N)	NORTH
ALT	ALTERNATE	OC	ON CENTER
AMP	AMPERE	OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
ARCH	ARCHITECTURAL	PC	POINT OF CURVATURE
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	PE	POLYETHYLENE
B/C	BACK OF CURB	PH	PHASE
BIT	BITUMINOUS PAVEMENT	PSI	POUNDS PER SQUARE INCH
BM	BENCH MARK	PT	POINT OF TANGENCY
C	CONDUIT	PVC	POLYVINYL CHLORIDE
CAL	CALIPER	PVMT	PAVEMENT
CB	CATCH BASIN	R	RADIUS
CFH	CUBIC FEET PER HOUR	RCP	REINFORCED CONCRETE PIPE
C.I.	CURB ISLAND	RE	REFERENCE
CIR	CIRCUIT	REQD	REQUIRED
CONC	CONCRETE	ROW	RIGHT-OF-WAY
DIA	DIAMETER	RW	RETAINING WALL
(E)	EAST	(S)	SOUTH
E.I.F.S.	EXTERIOR INSULATION FINISHING SYSTEM	SAN	SOIL BORING
EL ELEV	ELEVATION	SB	SOIL BORING
EQ	EQUIVALENT	SF, SQFT	SQUARE FEET
ES	END SECTION	SO	SQUARE
ETC	ETCETERA	STM	STORM SEWER
FH	FIRE HYDRANT	STRUC	STRUCTURE
FF	FINISHED FLOOR	TC	TOP OF CURB
FT	FOOT SQUARE	TEL	TELEPHONE
GND, GRD	GROUND	TH	TOP OF PAVEMENT
GP	GUTTER PAN	TRNF	TRANSFORMER
GPD	GALLONS PER DAY	TS	TOP OF SLAB
GPM	GALLONS PER MINUTE	TW	TOP OF WALL
GV&BOX	GATE VALVE AND BOX	TYP	TYPICAL
HC	HIGH CAPACITY	UC	UTILITY CROSSING
HD	HEAVY DUTY	UD	UNDER DRAIN
HEX	HEXAGON	W	WIRE
HT	HEIGHT	(W)	WEST
IE	INVERT ELEVATION	W	WITH
KVA	KILOVOLT AMPERE	WC	WATER COLUMN
LIBS	POUNDS	WTR	WATER
LD	LIGHT DUTY	WWF	WELDED WIRE FABRIC
LED	LIGHT EMITTING DIODE		
LF	LINEAR FEET		
LG	LARGE		
MANUF	MANUFACTURE		
MATL	MATERIAL		
MAX	MAXIMUM		
MECH	MECHANICAL		
MIN	MINIMUM		
MH	MANHOLE		

##### LEGEND

---	RIGHT OF WAY	□	TELEPHONE PEDESTAL	▨	EXISTING STRUCTURE (AS NOTED)
---	PROPERTY LINE	○	EXISTING TREE	▩	EXISTING CONCRETE
---	ADJOINING PROPERTY LINE	☀	SPRINKLER HEAD	▩	EXISTING GRAVEL
---	EXISTING EASEMENT	⊥	EXISTING SIGN	▩	EXISTING LANDSCAPED AREA
---	EXISTING 1' CONTOUR	⊥	BENCH MARK		
---	EXISTING 5' CONTOUR	⊥	DOWNSPOUT		
---	EXISTING CONCRETE CURB W/ DROP CURB	⊥	ELECTRIC JUNCTION BOX		
---	EDGE OF PAVEMENT	⊥	EXISTING GUIDE WIRE		
---	EXISTING OVERHEAD WIRES	⊥	EXISTING CLEANOUT		
---	EXISTING UNDERGROUND ELECTRICAL LINE	⊥	EXISTING BOLLARD		
---	EXISTING WATER LINE	⊥	1/2" IRON PIN & CAP (SET) R. NEUHAUS TN RLS-2593 AS DESCRIBED		
---	EXISTING UNDERGROUND TELEPHONE LINE	⊥	IRON PIN AND CAP FOUND "SEA 1708"		
---	EXISTING SANITARY SEWER	⊥	IRON PIN AND CAP FOUND "BURNS 1053"		
---	EXISTING STORM	⊥	IRON PIN AND CAP FOUND "1770"		
---	EXISTING GASLINE	⊥	T-POST FOUND		
---	EXISTING FENCE				
○ F.H.	EXISTING FIRE HYDRANT				
⊥	WATER VALVE				
⊥	WATER METER				
⊥	GAS METER				
⊥	EXISTING POWER POLE				
○	EXISTING LIGHT POLE (2 LIGHTS)				
⊥	EXISTING SANITARY SEWER MANHOLE				
⊥	EXISTING STORM SEWER MANHOLE				
⊥	DROP BOX INLET (DBI)				
⊥	EXISTING TRANSFORMER PAD				

SCALE:  
1" = 50' (H)  
1" = 5' (V)

NO.	REVISION	DATE	BY
1	FOR KDDW REVIEW	09-02-11	CWW

**LTRWC**  
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Reg. Water Commission  
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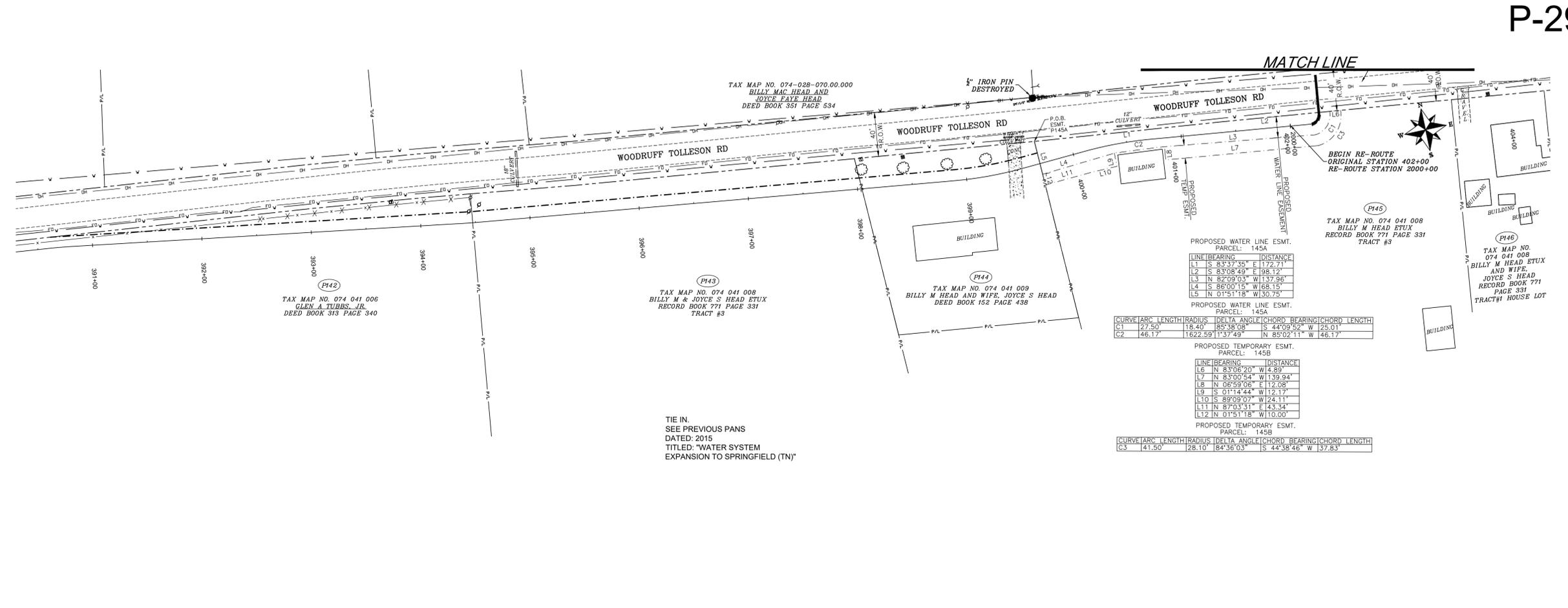
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DWN BY: CWW    APP BY:  
SCALE: AS SHOWN  
PROJECT DATE: 2015  
PRINTED:  
LENGTH OF BAR IS 1"  
ON ORIGINAL DRAWING

Logan Todd Regional  
Water Commission  
**WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)**  
Water Line: Plan & Profile

**Quality On Tap!**  
**SURVEYOR**  
ROBERT NEUHAUS, R.L.S.  
AMERICAN ENGINEERS, INC.  
65 ABERDEEN DRIVE  
GLASGOW, KENTUCKY 42141  
(270) 651-7220

**LEGEND**  
SYMBOLS THAT MAY APPEAR ON DRAWING

	RIGHT OF WAY
	PROPERTY LINE
	ALIGNING PROPERTY LINE
	EXISTING EASEMENT
	EDGE OF PAVEMENT
	EXISTING OVERHEAD WIRES
	EXISTING UNDERGROUND ELECTRICAL LINE
	EXISTING UNDERGROUND TELEPHONE LINE
	EXISTING SANITARY SEWER
	EXISTING GASLINE
	EXISTING FENCE
	EXISTING RAILROAD
	EXISTING TREE LINE
	F.A. EXISTING FIRE HYDRANT
	WATER VALVE
	WATER METER
	GAS METER
	EXISTING POWER POLE
	EXISTING LIGHT POLE (LIGHTS)
	EXISTING SANITARY SEWER MANHOLE
	EXISTING STORM SEWER MANHOLE
	DROP BOX INLET (DBI)
	EXISTING TRANSFORMER PAD
	TELEPHONE PEDESTAL
	EXISTING TREE
	SPRINKLER HEAD
	EXISTING SIGN
	ELECTING JUNCTION BOX
	EXISTING GUIDE WIRE



P-29

SCALE:  
1" = 50' (H)  
1" = 5' (V)

FOR KDW REVIEW	09-02-11	CWW
Revision	Date	By
No		

REVISIONS

**LTRWC**  
Logan Todd  
Reg. Water Commissioner

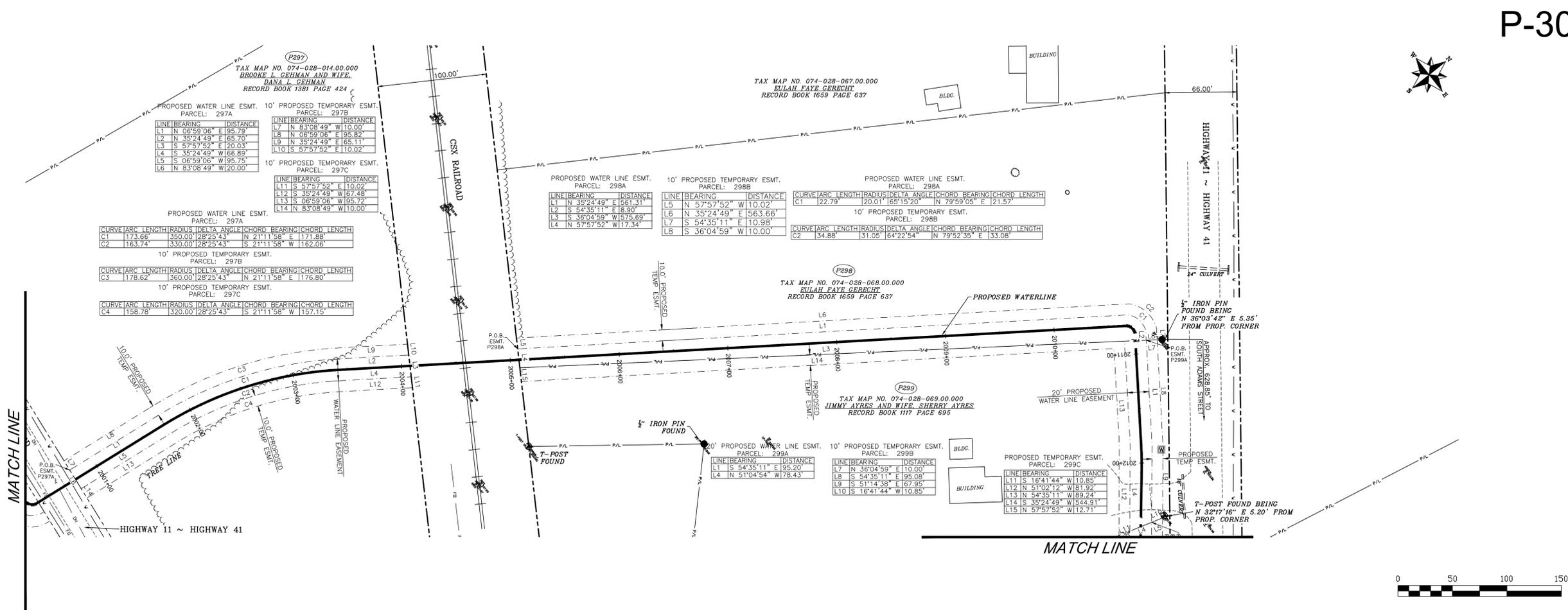
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P-30

Logan Todd Regional  
Water Commission  
WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)  
Water Line: Plan & Profile

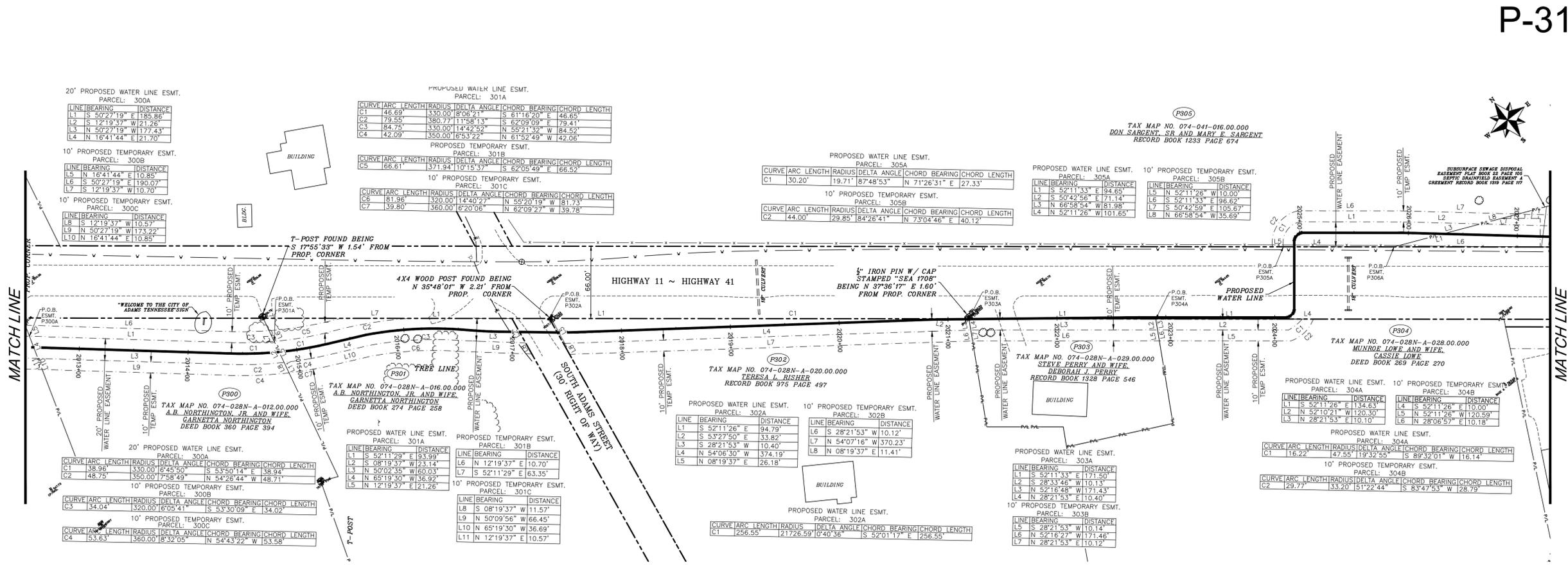
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DRAWING NO. 1  
SHEET 1

**LEGEND**

SYMBOLS THAT MAY APPEAR ON DRAWING

- PA — RIGHT OF WAY
- PL — PROPERTY LINE
- - - - - ADJOINING PROPERTY LINE
- - - - - EXISTING EASEMENT
- - - - - EDGE OF PAVEMENT
- - - - - EXISTING OVERHEAD WIRES
- - - - - EXISTING UNDERGROUND ELECTRICAL LINE
- - - - - EXISTING WATER LINE
- - - - - EXISTING UNDERGROUND TELEPHONE LINE
- - - - - EXISTING SANITARY SEWER
- - - - - EXISTING GASLINE
- - - - - EXISTING FENCE
- - - - - EXISTING TEMPORARY ESMT.
- - - - - EXISTING RAILROAD
- - - - - EXISTING TREE LINE
- - - - - EXISTING FIRE HYDRANT
- FA — EXISTING FIRE HYDRANT
- W — WATER VALVE
- M — WATER METER
- G — GAS METER
- — — — — EXISTING POWER POLE
- — — — — EXISTING LIGHT POLE (2 LIGHTS)
- — — — — EXISTING SANITARY SEWER MANHOLE
- — — — — EXISTING STORM SEWER MANHOLE
- — — — — DROP BOX INLET (DBI)
- — — — — EXISTING TRANSFORMER PAD
- — — — — TELEPHONE PEDESTAL
- — — — — EXISTING TREE
- — — — — SPRINKLER HEAD
- — — — — EXISTING SIGN
- — — — — ELECTRIC JUNCTION BOX
- — — — — EXISTING GUIDE WIRE



P-31

SCALE:  
1" = 50' (H)  
1" = 5' (V)

FOR KDW REVIEW  
Revision No. 09-02-11  
Date By: CWW

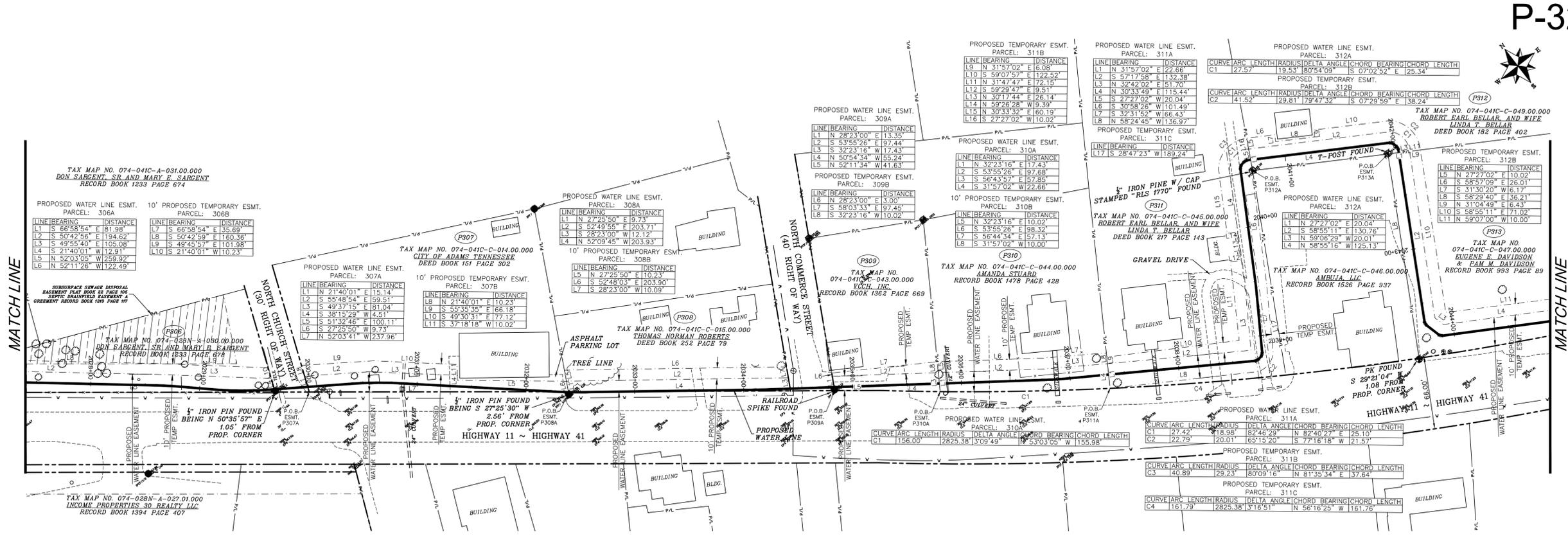
REVISIONS

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P-32



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DES BY: MWM CHK BY: ETH  
DWN BY: CWW APP BY:  
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Logan Todd Regional  
Water Commission  
WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)  
Water Line: Plan & Profile

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DRAWING NO. 2  
SHEET



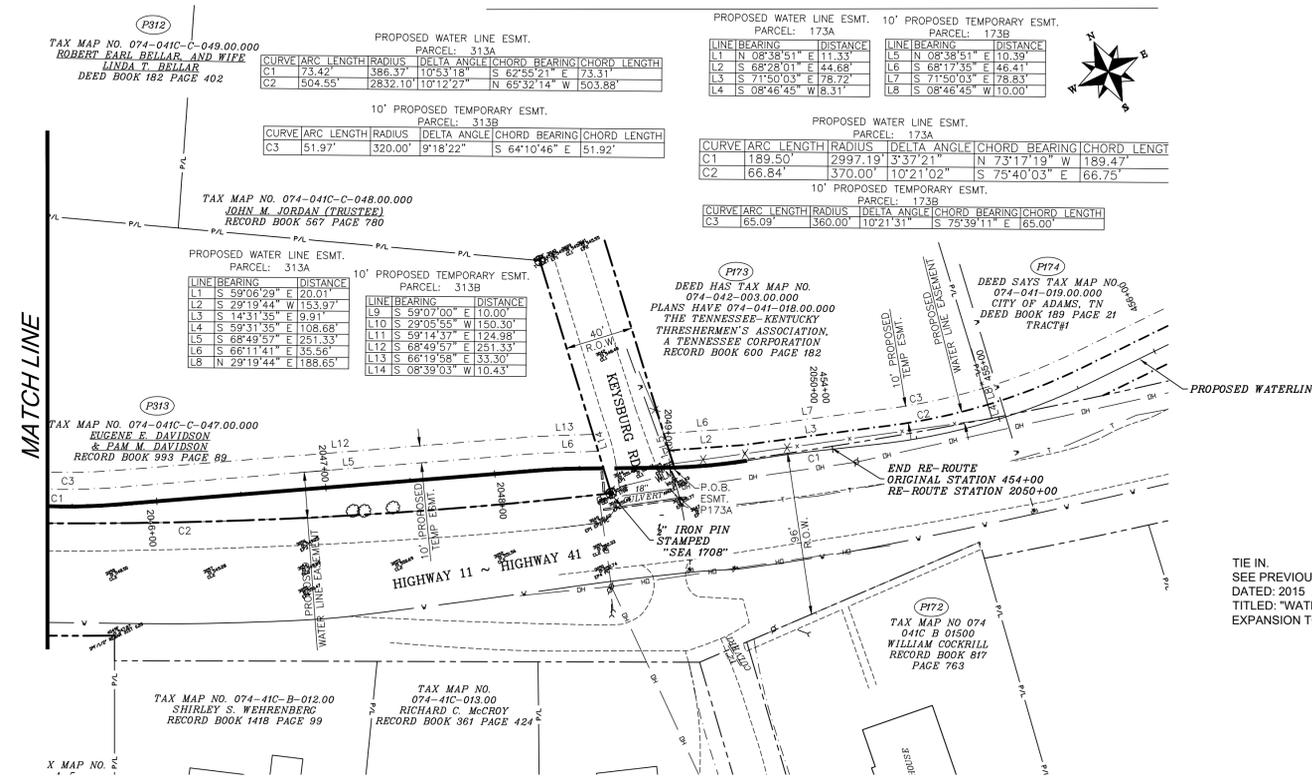
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NO.	DATE	BY
1	09-02-11	CWW
2		
3		
4		

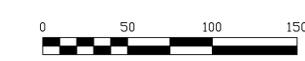
REVISIONS

**LEGEND**  
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	TELEPHONE PEDESTAL
	EXISTING TREE
	SPRINKLER HEAD
	EXISTING SIGN
	ELECTRIC JUNCTION BOX
	EXISTING GUIDE WIRE



TIE IN.  
SEE PREVIOUS PANS  
DATED: 2015  
TITLED: "WATER SYSTEM  
EXPANSION TO SPRINGFIELD (TN)"



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**WATER SYSTEM EXPANSION  
TO SPRINGFIELD (TN)**  
Water Line: Plan & Profile

**Quality On Tap!**

DRAWING NO.  
**3**

SHEET