

# HENRY COUNTY DEPARTMENT of HIGHWAYS TOWNSHIP ROAD T [TWP. RD. 15 to ST. RT. 108 (14)] STATE of OHIO

## 2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION (INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS) LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS, DECLARE THAT THIS IMPROVEMENT WILL REQUIRE TEMPORARY CLOSURE OF THE HIGHWAY/ROADWAY, AND AGREE THAT THE NECESSARY LIGHTS & SIGNS SHALL BE MAINTAINED.

APPROVED \_\_\_\_\_

DATE \_\_\_\_\_ HENRY COUNTY ENGINEER

APPROVED \_\_\_\_\_

DATE \_\_\_\_\_ TOWNSHIP TRUSTEE

APPROVED \_\_\_\_\_

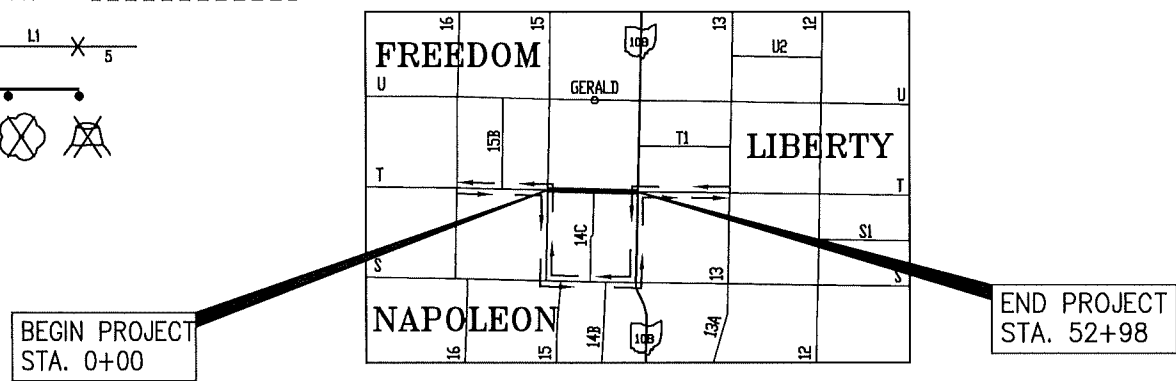
DATE \_\_\_\_\_ TOWNSHIP TRUSTEE

APPROVED \_\_\_\_\_

DATE \_\_\_\_\_ TOWNSHIP TRUSTEE

### CONVENTIONAL SIGNS

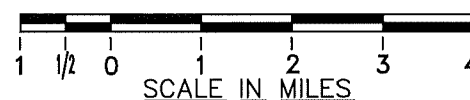
- TOWNSHIP LINE - - - - -
- SECTION LINE . . . . .
- CENTER LINE \_\_\_\_\_
- PROPERTY LINE \_\_\_\_\_
- RAILROAD ++++++
- FENCE LINE (EXISTING) —X—X— (PROPOSED) —X—X—
- GUARDRAIL (EXISTING) —○—○— (PROPOSED) —○—○—
- TREES (EX.) - ○ STUMPS (EX.) - △ (TO BE REMOVED) ⊗ ⊗
- UTILITY POLES: TELEPHONE - ⊗ POWER - ⊗ LIGHT - ⊗
- COUNTY LINE \_\_\_\_\_
- CORPORATION LIMITS \_\_\_\_\_
- CONSTRUCTION LIMITS . . . . .
- RIGHT of WAY \_\_\_\_\_
- UNDERGROUND UTILITIES - - - - -



### INDEX of SHEETS

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### LOCATION MAP



- DETOUR - - - - -
- PORTION TO BE IMPROVED - - - - -
- STATE & U.S. ROUTES - - - - -
- COUNTY & TOWNSHIP ROADS - - - - -

### SCALES

- PLAN - - - - -
- PROFILE - - - - - HORIZONTAL - - - - - VERTICAL - - - - -
- CROSS SECTION - HORIZONTAL - - - - - VERTICAL - - - - -

**UNDERGROUND UTILITIES**  
**\*\*CALL BEFORE YOU DIG\*\***  
 2 FULL WORKING DAYS (48 HOURS) PRIOR TO DIGGING, CALL 800-362-2764 OR 811 TO OBTAIN A REFERENCE NUMBER.  
 OHIO UTILITY PROTECTION SERVICE  
 NON-MEMBERS MUST BE CALLED DIRECTLY (OHIO REVISED CODE SEC. 3781.25)

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS			
BP-3.1	01-21-22		
BP-3.2	01-18-19		
BP-4.1	07-19-13		

SUPPLEMENTAL SPECIFICATIONS	

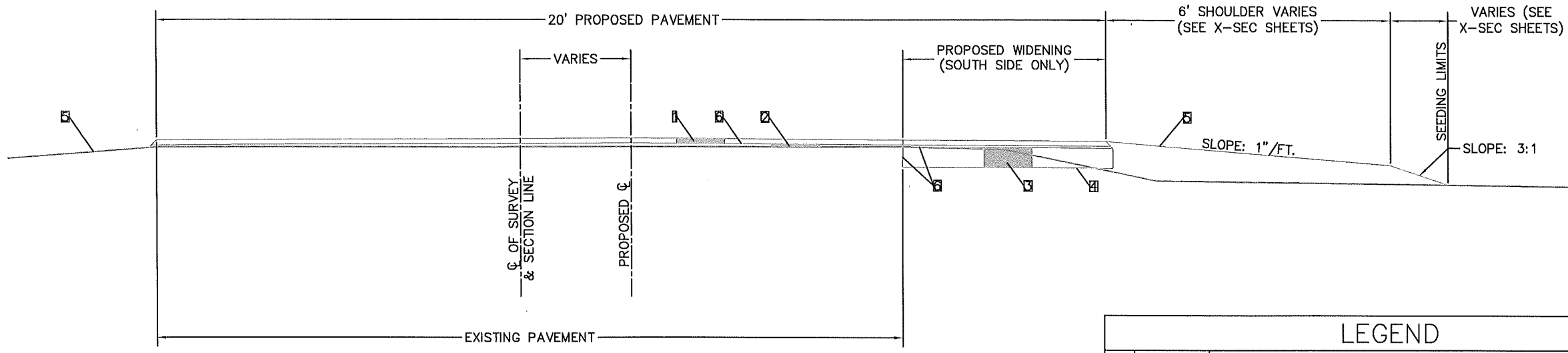
DRAWING CREATED 12/16/2022

DEPARTMENT of HIGHWAYS  
HENRY COUNTY, OHIO

TITLE SHEET  
TOWNSHIP ROAD T  
RESURFACING & WIDENING BETWEEN  
TOWNSHIP ROAD 15 & STATE ROUTE 108  
(FREEDOM TOWNSHIP)

Designed: HEN. CO. ENG.	Drawn: JTH	Checked: TJS	File Name: 20220115-14
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HENRY COUNTY TOWNSHIP ROAD T  
RESURFACING & WIDENING BETWEEN  
TOWNSHIP ROAD 15 & STATE ROUTE 108



TYPICAL WIDENING SECTION  
(NOT TO SCALE)

GENERAL NOTES

ELEVATION DATUM

All elevations are based on NAVD 988 datum.

UNDERGROUND UTILITIES

The locations of underground utilities shown on the plans are as obtained from the owners of the utility as required by Section 153.64 ORC.

UTILITY OWNERSHIP

The following utilities & owners are located within the work limits of this project:

**TELEPHONE:**  
Ridgeville Telephone  
S732 County Road 20B  
Archbold, OH 43502  
419-267-5185

**ELECTRIC:**  
Napoleon Power & Light  
1775 Industrial Drive  
Napoleon, OH 43545  
419-599-1891

**WATER:**  
City of Napoleon  
1775 Industrial Drive  
Napoleon, OH 43545  
419-599-1891

**GAS:**  
Ohio Gas Company  
200 West High Street  
Bryan, OH 43506  
800-331-7396 / 419-636-1117

SIGNS

**DETOUR** – for the required project detour, as indicted on Sheet 1, the Contractor shall provide, erect, maintain, and remove all necessary signs & sign supports.

**"ROAD CLOSED" SIGNS & LIGHTS @ ADJACENT INTERSECTIONS** – In addition to the general requirements of ITEM 614, the Contractor shall provide, erect, maintain, and remove standard 48"x30" "ROAD CLOSED" signs, sign supports, and lights at the following locations:

1. Intersection of State Route 108 and Township Road T
2. Intersections of Township Road T and Township Roads 14C & 15

All lights, signs, and sign supports shall conform to the details specified in the OHIO MANUAL of UNIFORM TRAFFIC CONTROL DEVICES.

Payment for these shall be included in the lump sum price bid for ITEM 614, MAINTAINING TRAFFIC.

DRIVEWAY ACCESS

Access to all residential drives shall be maintained at all times during the construction of this project. Temporary closure of any drive shall require permission from the Engineer prior to closure, and shall be as brief as necessary.

EROSION CONTROL

ITEM 601 is provided in the plans for erosion control. Rock of a stable nature will not be removed in order to place this item. The Engineer shall check & non-perform quantities, or adjust locations & quantities, for this item where indicated by field conditions during construction.

ITEM 611

Immediately after placement of any conduits, the Contractor shall construct end treatments, as required by the plans, at both the inlet & outlet ends. This shall include headwalls, wingwalls, end sections, concrete riprap, rock channel protection, sodding, etc.

Payment for manufactured end sections, coupling bands, and/or precast wingwalls & footers shall be included in the unit price bid for each conduit under this item.

Where plans call for conduits to cross over/under existing sewer or gas lines, or connected to existing pipes, it is the Contractor's responsibility to obtain the location & grade of the existing components prior to laying conduits.

Animal guards shall be provided at the outlet end of all pipes being constructed by the Contractor, as per Standard Construction Drawing DM-1.1, except when the pipes outlet into a drainage structure.

Payment for all operations described above shall be included in the unit price bid for pertinent ITEM 611 conduit items.

EXISTING STONE BERM

Existing stone berm shall be graded so no granular material is within 6" of the finished grade, as shown on the Cross Sections.

SEEDING

Quantities for seeding are calculated for the soils area from the edge of pavement to the end of work limits shown on the Typical Widening Section shown above, and at selected areas on the PLAN & PROFILE sheets.

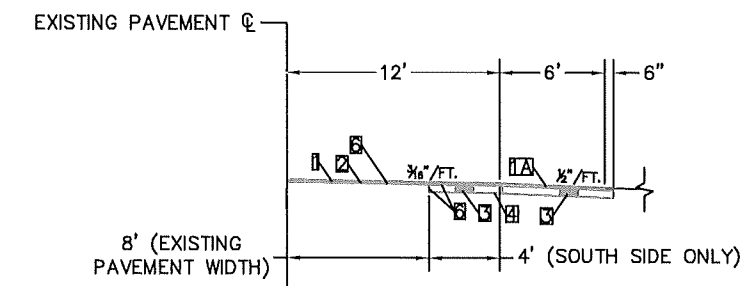
TEMPORARY PAVEMENT MARKINGS

Temporary pavement markings shall be applied to the centerline of the surface course, at approximately 50' intervals. These shall be paid for under ITEM 404.

CONTINGENCY QUANTITIES

Unless authorized by the Engineer, the Contractor shall not order any materials or perform any work listed in the GENERAL SUMMARY for items designated in the plan notes to be used "AS DIRECTED BY ENGINEER." At the Engineers discretion, the actual work locations and quantities used shall be made a matter of record by incorporation into the final Change Order governing completion of this project.

LEGEND		
1	ITEM 441	1- $\frac{1}{4}$ " ASPHALT CONCRETE SURFACE COURSE (823)
1A	ITEM 441	1- $\frac{3}{4}$ " ASPHALT CONCRETE SURFACE COURSE (823)
2	ITEM 823	$\frac{1}{2}$ " ASPHALT CONCRETE INTERMEDIATE COURSE (823)
3	ITEM 301	5" ASPHALT CONCRETE BASE (INCLUDES 407 TACK COAT ON VERTICAL FACE)
4	ITEM 204	SUB-GRADE COMPACTION (COST INCLUDED IN UNIT PRICE BID FOR ITEM 203 EXCAVATION)
5	ITEM 659	SEEDING & MULCHING
6	ITEM 407	TACK COAT – APPLIED @ RATE OF 0.05 GAL/SQ.YD. (BETWEEN 301 & INTERMEDIATE AND BETWEEN INTERMEDIATE & SURFACE)



MAILBOX TURNOUT & DRIVEWAY DETAIL  
(NOT TO SCALE)

DRAWING DETAILS	
DRAWN BY:	JTH 12/9/22
DESIGNED BY:	JTH 12/9/22
REVIEWED BY:	DH 12/19/22
REVISED	

TIMOTHY J. SCHUMM, P.E., P.S.  
HENRY COUNTY ENGINEER  
1823 OAKWOOD AVENUE  
NAPOLEON, OHIO 43545  
419-592-2976

Ohio Utilities Protection Service  
**Call 811**  
before you dig



HENRY COUNTY TOWNSHIP ROAD T  
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TOWNSHIP ROAD 15 & STATE ROUTE 108

### GENERAL SUMMARY

ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION
<b>ROADWAY</b>				
202		12	EACH	REMOVE & RELOCATE MAILBOX/PAPERBOX
202		1	EACH	REMOVE & RELOCATE CATCH BASIN (STA. 37+36.5, SOUTH SIDE) - ANY TAPS, CONDUIT, AND/OR OTHER NECESSARY EQUIPMENT SHALL BE INCLUDED IN THE UNIT PRICE BID
202		18	LIN. FT.	REMOVE PIPE - 24" & UNDER
203		327	CU. YARD	EXCAVATION (4' WIDENING ON SOUTH SIDE & MAILBOX TURNOUTS) - 75% MATERIAL LAID OVER AS ADDITIONAL EMBANKMENT (CANNOT BE USED FOR RESIDENTIAL YARDS)
203		1405	CU. YARD	ROADWAY EXCAVATION & EMBANKMENT (TO MOVE SWALE/DITCH)
204		2355	SQ. YARD	SUBGRADE COMPACTION
209		5295	LIN. FT.	LINEAR GRADING FOR WIDENING EXCAVATION
617		150	CU. YARD	PAVEMENT PLANING (20' LENGTH MILLED, INCLUDING RADIUS)
<b>EROSION CONTROL</b>				
601		---	CU. YARD	ROCK CHANNEL PROTECTION, TYPE D w/o FILTER, 18" THICK
659		8	M. GAL.	WATER
659		2330	SQ. YARD	SEEDING & MULCHING
659		0.5	TON	COMMERCIAL FERTILIZER
<b>DRAINAGE</b>				
---		---	---	---
<b>PAVEMENT</b>				
301		327	CU. YARD	BITUMINOUS AGGREGATE BASE (5" AVERAGE COMPACTED DEPTH, INCLUDES 407 TACK COAT ON VERTICAL FACE)
407		1190	GALLON	BITUMINOUS TACK COAT (APPLIED @ RATE OF 0.05 GAL./SQ.YD.)
823		165	CU. YARD	ASPHALT CONCRETE INTERMEDIATE COURSE (823) - APPLIED, SPREAD, & COMPACTED TO AN AVERAGE DEPTH OF 0.5"
441		412	CU. YARD	ASPHALT CONCRETE SURFACE COURSE (823) - APPLIED, SPREAD, & COMPACTED TO AN AVERAGE DEPTH OF 1.25"
SPECIAL		1	EACH	FORMED CONSTRUCTION JOINT (85.5 LINEAR FEET EACH) - S.R. 108
SPECIAL		1	EACH	FORMED CONSTRUCTION JOINT (79.5 LINEAR FEET EACH) - T.R. 15
SPECIAL		1	EACH	FORMED CONSTRUCTION JOINT (14 LINEAR FEET EACH) - T.R. 14C
<b>MISCELLANEOUS</b>				
614		1	LUMP	MAINTAINING TRAFFIC
623		1	LUMP	CONSTRUCTION LAYOUT STAKES
624		1	LUMP	MOBILIZATION
103.05		1	LUMP	CONTRACT PERFORMANCE & PAYMENT BOND

### SUB-SUMMARY

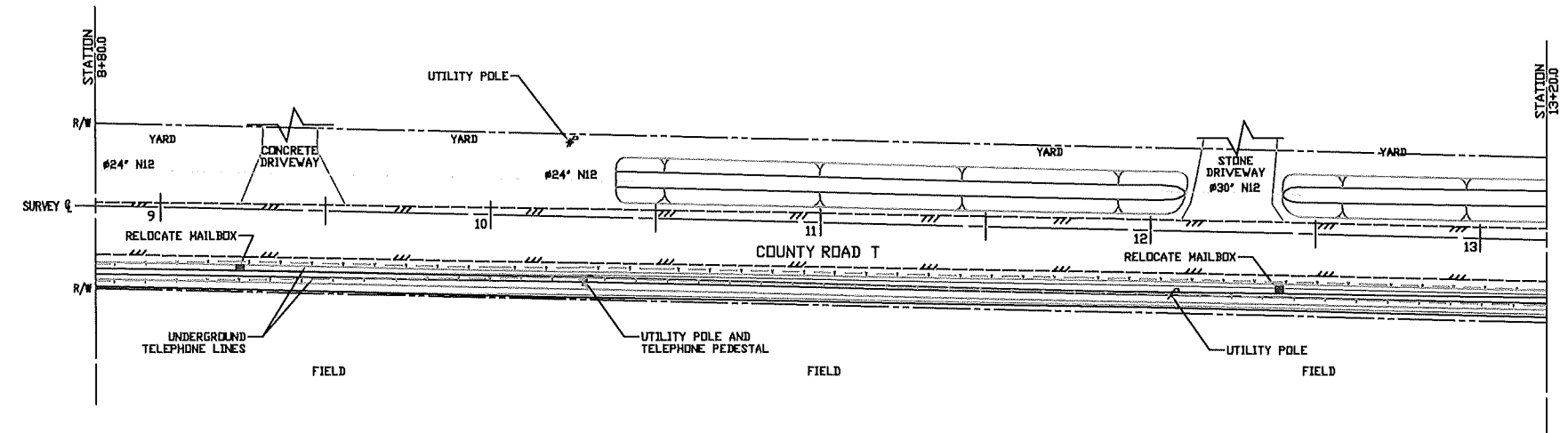
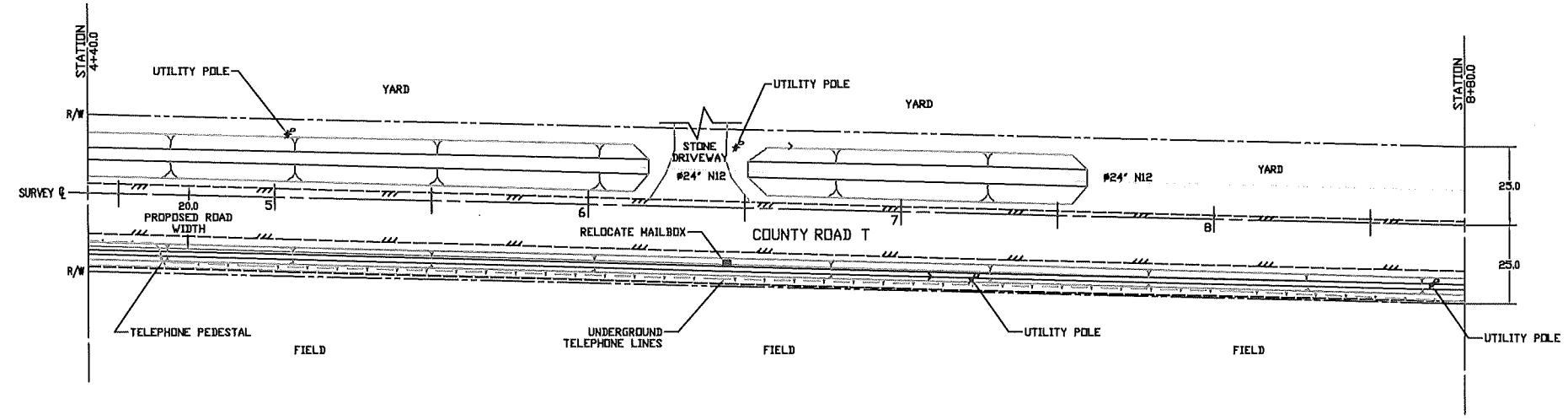
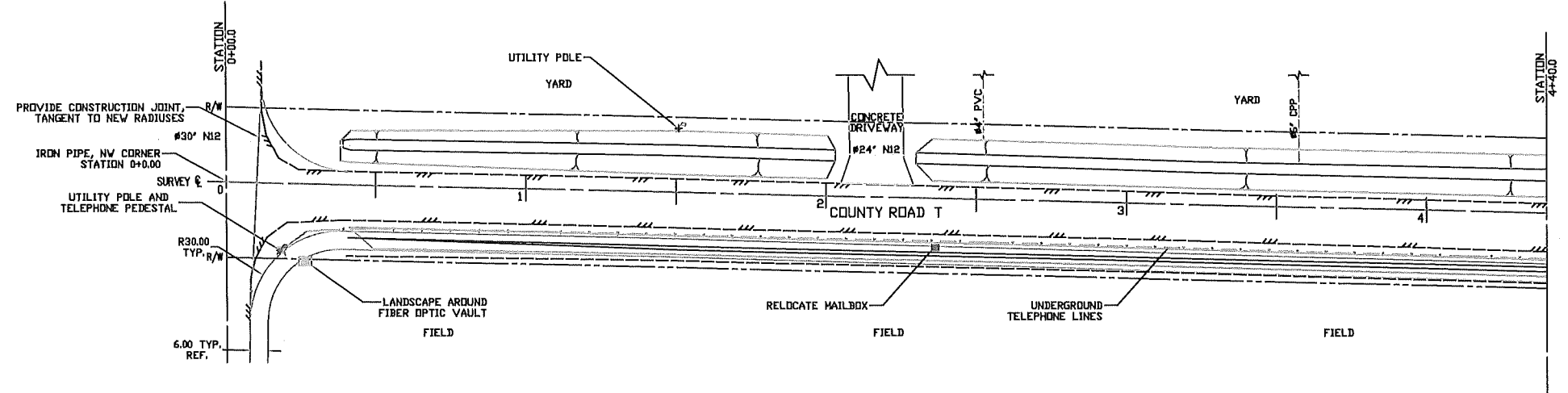
REFERENCE NUMBER	STATION		SIDE	ROAD	202	202	202	SHEET NUMBER
					REMOVE & RELOCATE MAILBOX / PAPERBOX)	REMOVE & RELOCATE CATCH BASIN	REMOVE PIPE - 24" & UNDER	
	FROM	TO	EACH	EACH	LIN. FT.			
1R	0+0.00	4+40.0	S	T	1			4,8
2R	4+40.0	8+80.0	S	T	1			4,8
3R	8+80.0	13+20.0	S	T	2			4,8
4R	13+20.0	17+60.0	S	T			18	5,8
5R	17+60.0	22+00.0	S	T				5,8
6R	22+00.0	26+40.0	S	T	1			5,8
7R	26+40.0	30+80.0	S	T				6,8
8R	30+80.0	35+20.0	S	T				6,8
9R	35+20.0	39+60.0	S	T		1		6,8
10R	39+60.0	44+00.0	S	T				7,8
11R	44+00.0	48+40.0	S	T				7,8
12R	48+40.0	52+98.1	S	T	3			7,8
1D	37+36.5	---	S	T				6
<b>TOTALS</b>					8.00	1.00	18.00	

DRAWING DETAILS  
 DRAWN BY: JTH 12/14/22  
 DESIGNED BY: JTH 12/14/22  
 REVIEWED BY: DH 12/19/22  
 REVISED

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PLAN

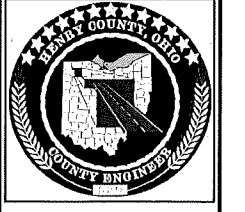
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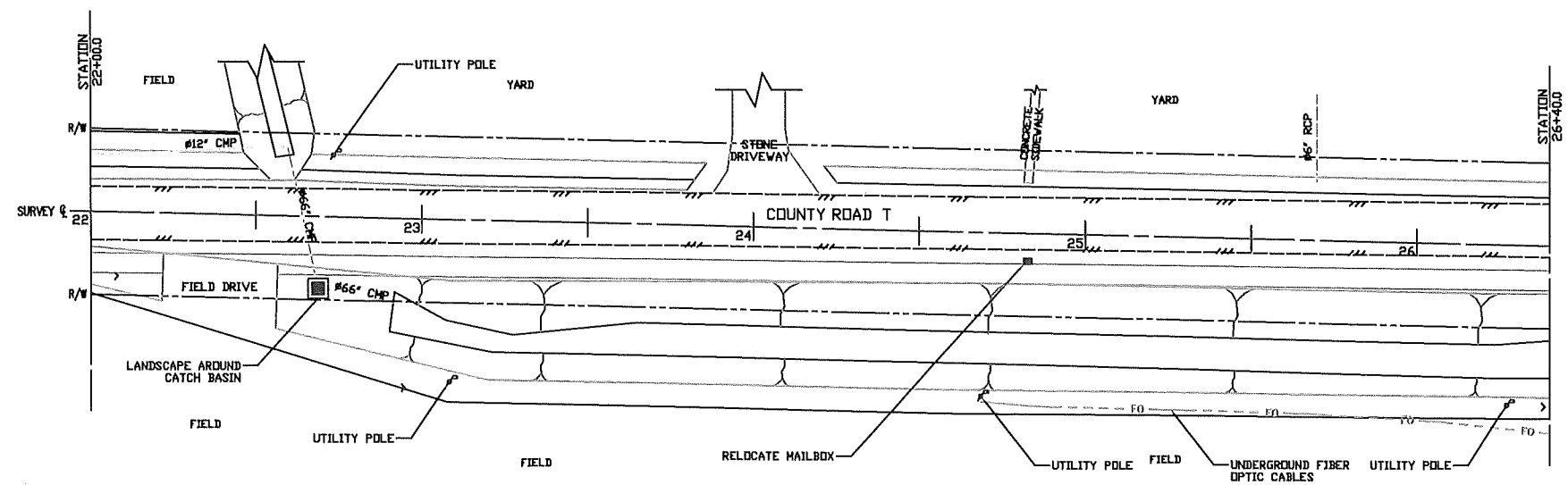
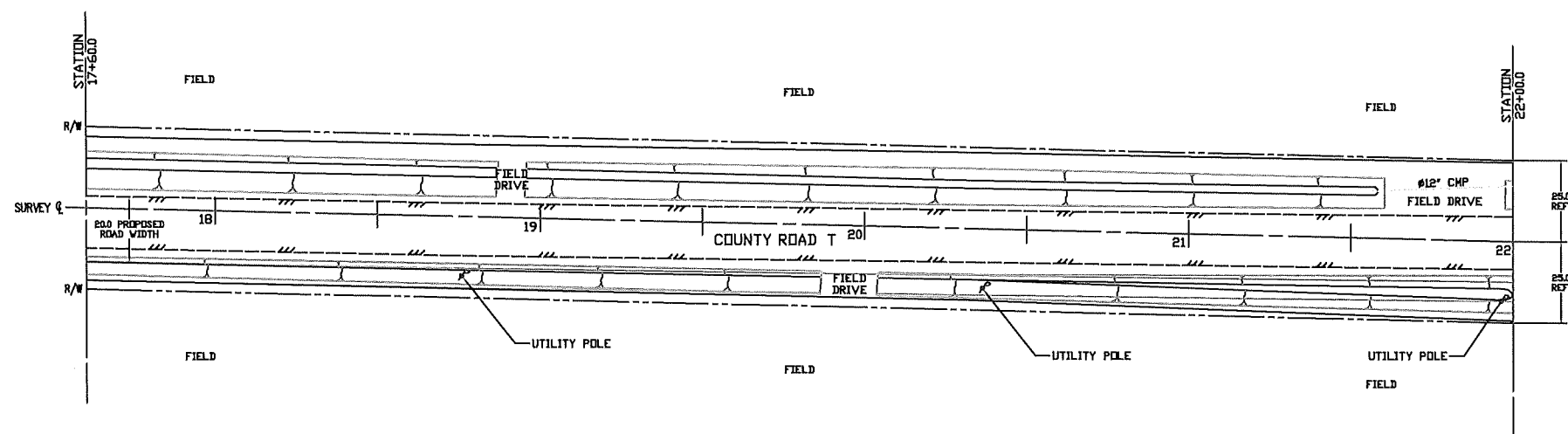
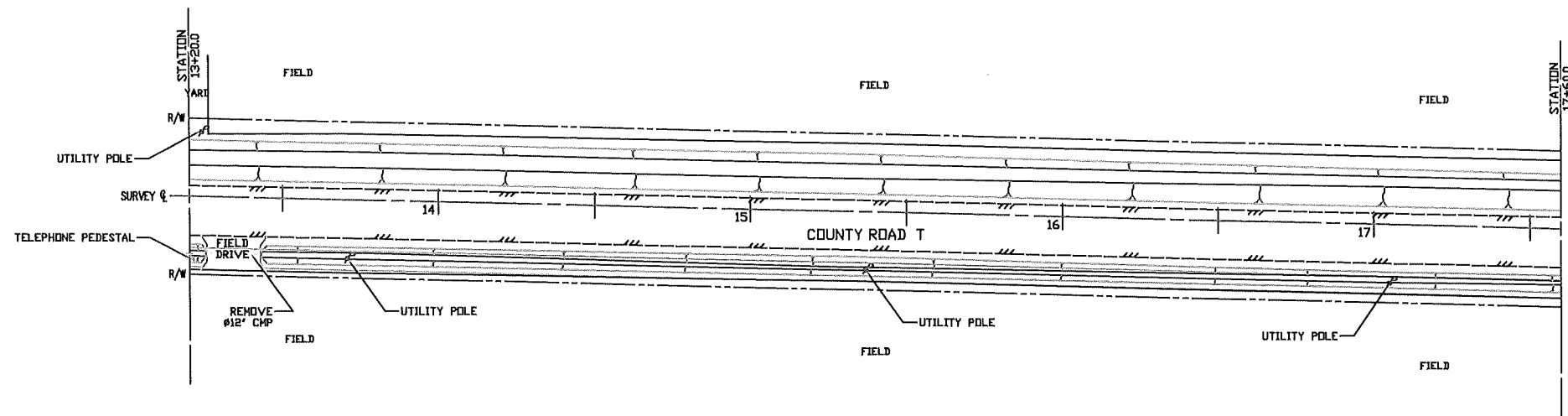
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DRAWN BY:	JTH 08/02/22
DESIGNED BY:	JTH 08/02/22
REVIEWED BY:	DH 08/03/22
REVISED	

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PLAN

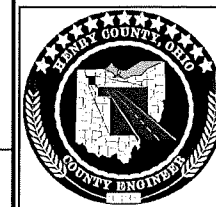
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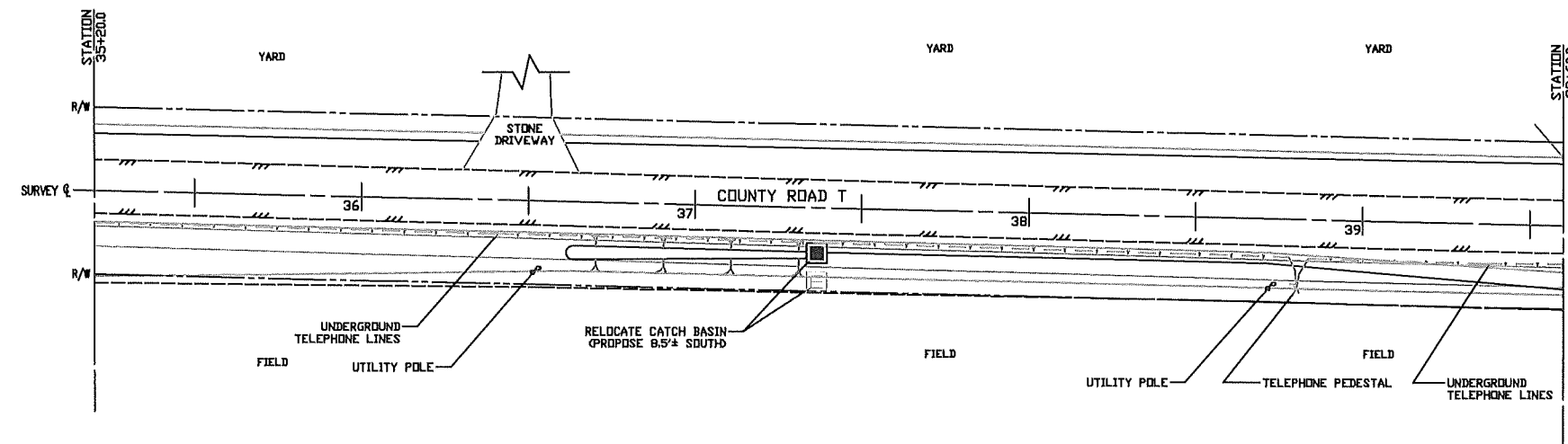
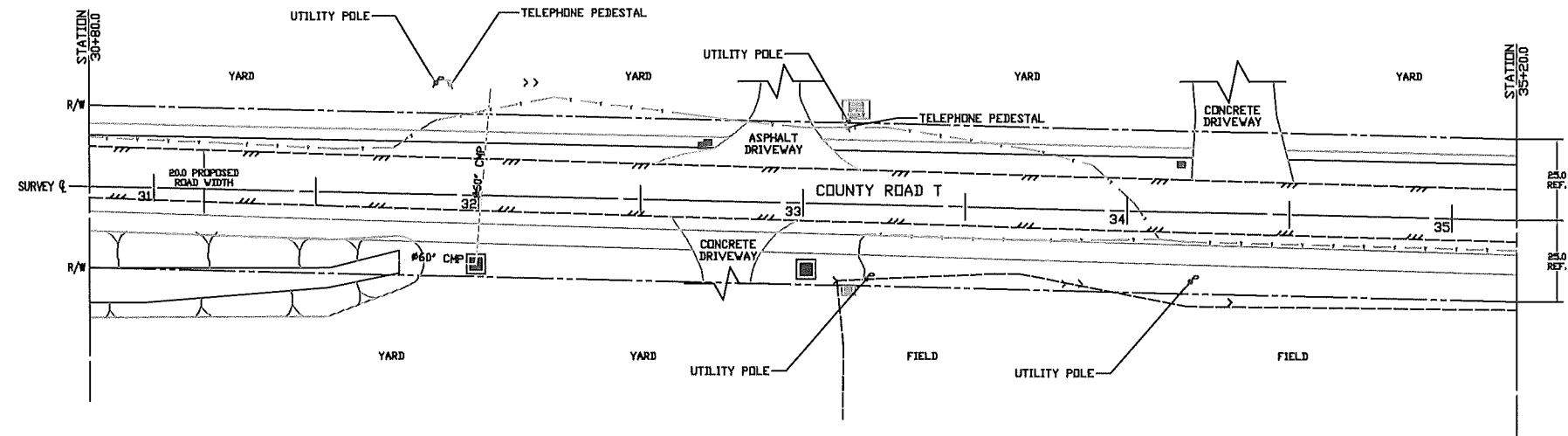
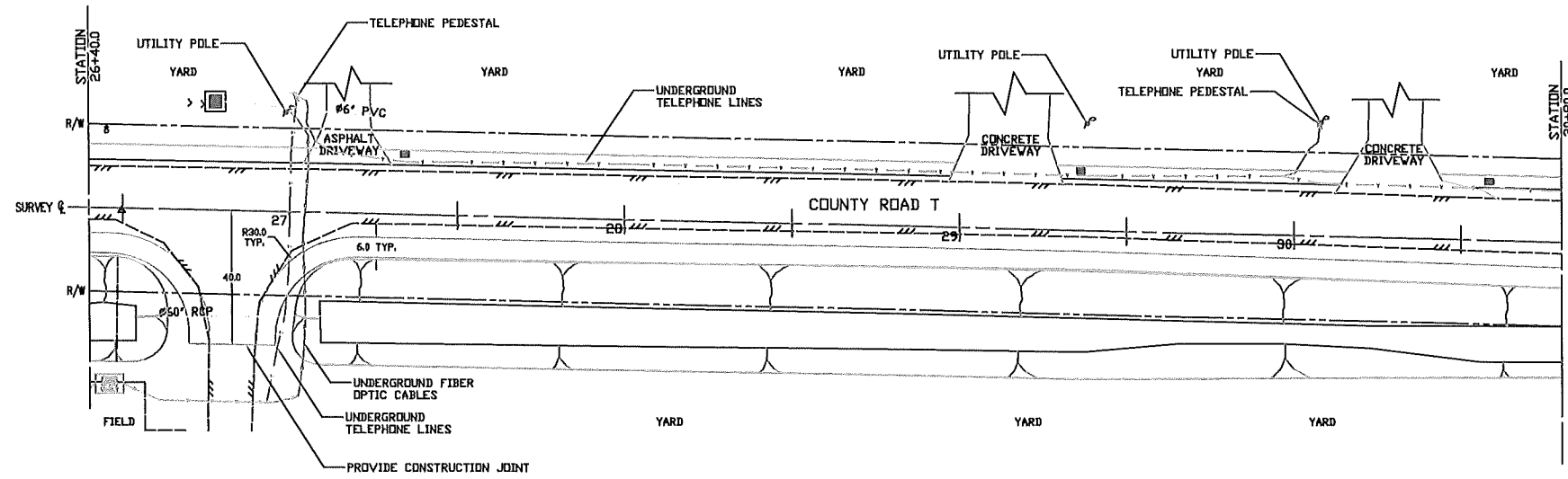
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PLAN

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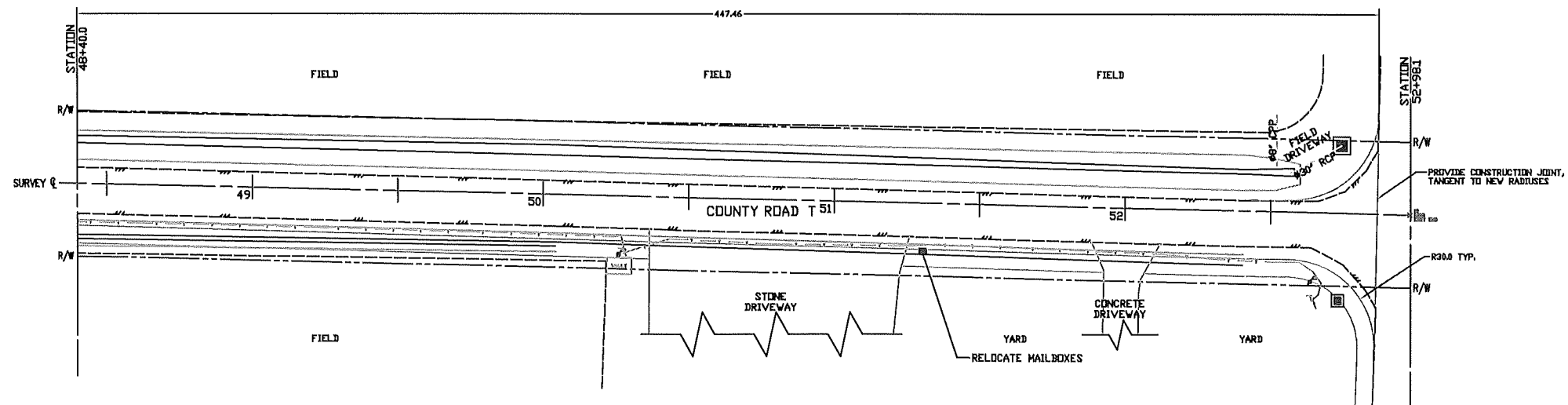
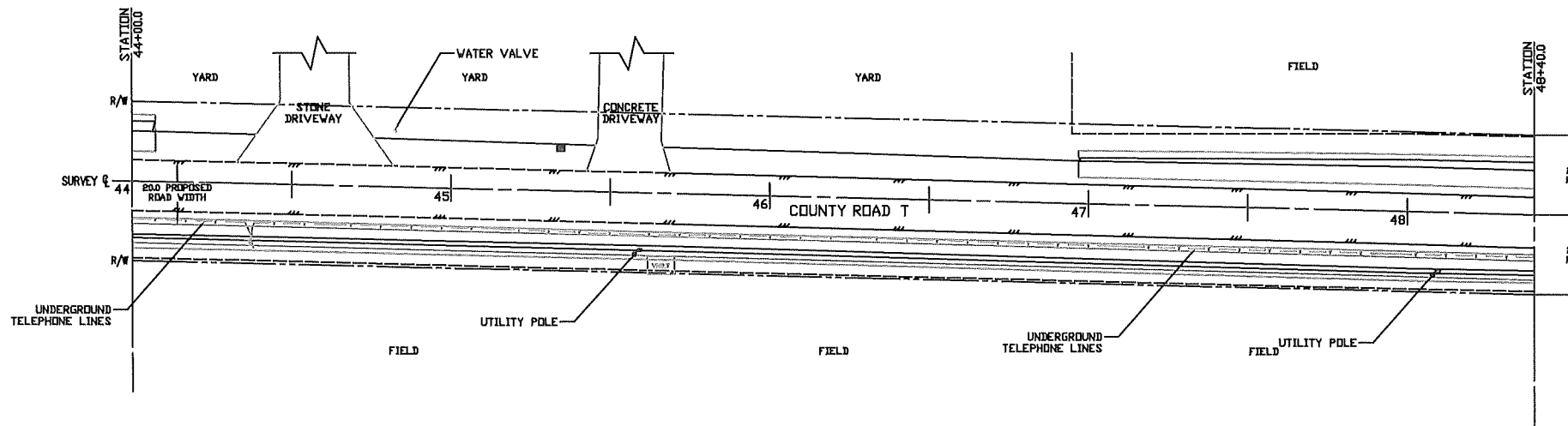
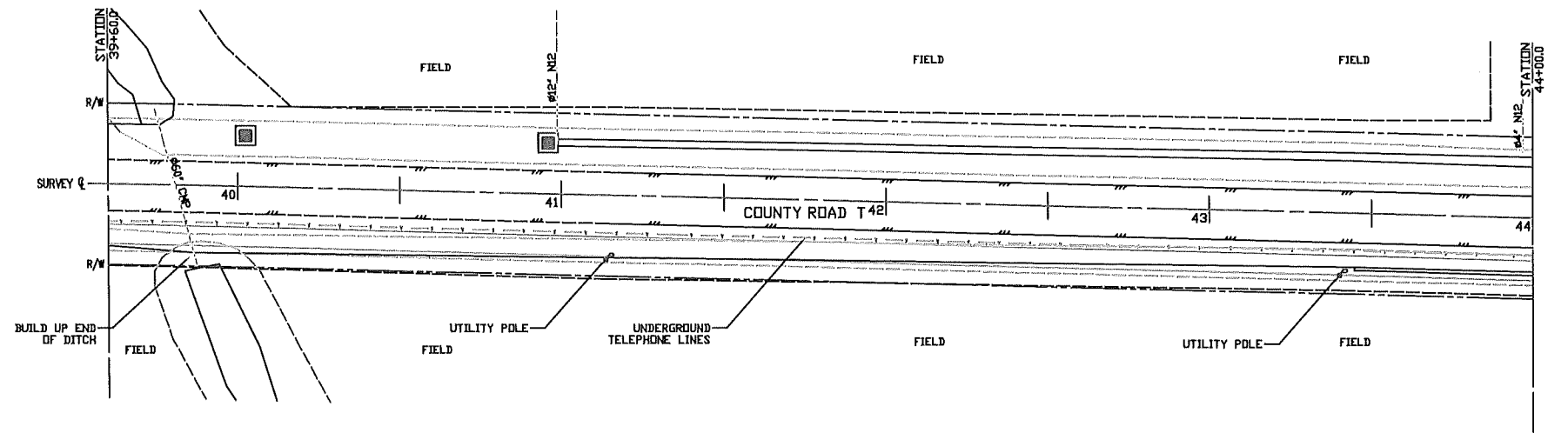
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PLAN

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