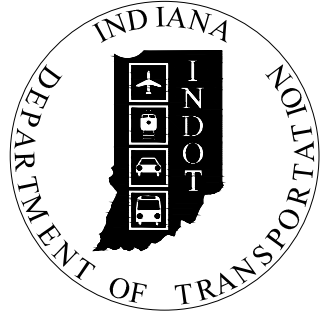


PROJECT	DESIGNATION
2200682	2200665
CONTRACT	BRIDGE FILE
R-44376	N/A

CULVERT ASSETS	
DES. NO.	CULVERT ASSET ID
2200665	CV 421-012-133.62

KIN PROJECT INFORMATION	
DESIGNATION	PROJECT DESCRIPTION
2200665	U.S. 421 OVER DRAINAGE SWALE SMALL STRUCTURE REPLACEMENT, 0.67 MILES SOUTH OF S.R. 26
2200667	U.S. 231 OVER ROADSIDE DITCH SMALL STRUCTURE REPLACEMENT, 1.44 MILES SOUTH OF S.R. 18
2200682 (LEAD)	S.R. 28 OVER C.B. WALLACE BRANCH 2 SMALL STRUCTURE PIPE LINING, 2.36 MILES WEST OF U.S. 421

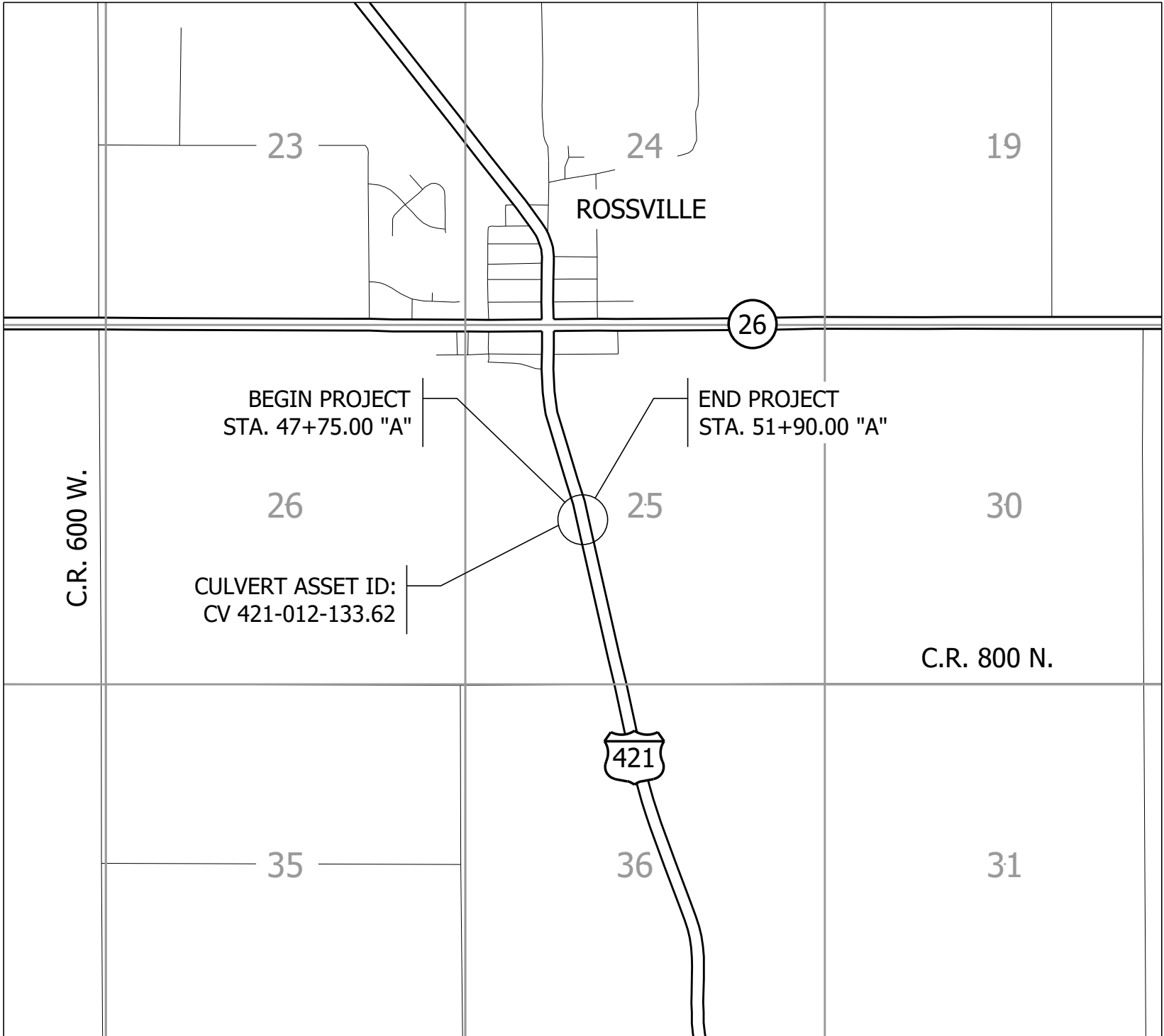
INDIANA DEPARTMENT OF TRANSPORTATION



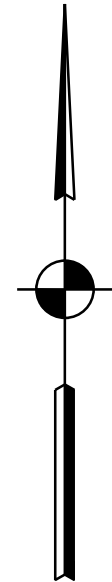
ROAD PLANS

ROUTE: U.S. 421 AT: RP 133+62
PROJECT NO. 2200665 P.E.
 2200665 R/W
 2200665 CONST.

SMALL STRUCTURE REPLACEMENT ON U.S. 421 OVER DRAINAGE SWALE, 0.67 MILES SOUTH OF S.R. 26 IN SECTION 25, T-23-N, R-2-W, ROSS TOWNSHIP, CLINTON COUNTY, INDIANA



ENV. DOCUMENT PLANS
MARCH 2025



SCALE:
1" = 2000'

TRAFFIC DATA	U.S. 421
A.A.D.T. (2027)	2,765 V.P.D.
A.A.D.T. (2047)	3,295 V.P.D.
D.H.V. (2047)	352 V.P.H.
DIRECTIONAL DISTRIBUTION	54.3% NORTH
TRUCKS	5.4% D.H.V.
	10.8% A.A.D.T.
DESIGN DATA	
DESIGN SPEED	55 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE



LATITUDE: 40°24'25" N LONGITUDE: 86°35'33" W

BRIDGE LENGTH:	0.000	MI.
ROADWAY LENGTH:	0.079	MI.
TOTAL LENGTH:	0.079	MI.
MAX. GRADE:	1.44	%

H.U.C. 051201070203



INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2024 TO
BE USED WITH THESE PLANS.

PRELIMINARY

PLANS PREPARED BY: CORRADINO, LLC	317-488-2363 PHONE NUMBER
CERTIFIED BY: _____	____/____/____ DATE
APPROVED FOR LETTING: _____	____/____/____ DATE
INDIANA DEPARTMENT OF TRANSPORTATION	

BRIDGE FILE	
N/A	
DESIGNATION	
2200665	
SHEET	
1	of 16
CONTRACT	PROJECT
R-44376	2200682

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Modified / By: August 12, 2024 9:42:40 AM / zhot
Plotted / By: March 3, 2025 12:08:50 PM / Zed Hot

UTILITIES

ELECTRIC:

DUKE ENERGY
DON MCDUFFY
1000 EAST MAIN STREET
PLAINFIELD, IN 46168
317-776-5320
DEI-DLINE-COORD@DUKE-ENERGY.COM

COMMUNICATION:

BRIGHTSPEED
MAX DOWNEY
248 W. MONROE STREET
DECATUR, IN 46733
MAXWELL.K.DOWNNEY@BRIGHTSPEED.COM
980-376-1443

COMCAST
DOUG FISHBURN
720 TAYLOR STREET
FORT WAYNE, IN 46802
260-410-3504
WILLIAM_FISHBURN@COMCAST.COM

MULBERRY TELECOMMUNICATIONS
TONY STEWART
116 S. GLICK STREET
MULBERRY, IN 46058
765-296-2885
MTCTONY@MINTEL.NET

DRAINAGE:

CLINTON COUNTY SURVEYOR'S OFFICE
DAN SHEETS
165 COURTHOUSE SQUARE
FRANKFORT, INDIANA 46041
765-659-6300
DSHEETS@CLINTONCO.COM

"HOLEY HOLEY SAYS"

DON'T
DIG
BLIND



1-800-382-5544
CALL TOLL FREE
1-800-428-5200
FOR CALLS OUTSIDE OF INDIANA

811

Know what's below.
Call before you dig.

GENERAL NOTES

1. ALL EARTHEN SHOULDERS, MEDIAN AREAS, AND CUT AND FILL SLOPES SHALL BE PLAIN OR MULCH SEEDED EXCEPT WHERE SODDING IS SPECIFIED.

INDEX	
SHEET NO.	DESIGNATION
1	TITLE
2	INDEX AND GENERAL NOTES
3	TYPICAL SECTIONS
4	PLAT NO. 1
5 - 6	MAINTENANCE OF TRAFFIC
7	PLAN AND PROFILE
8	GENERAL PLAN
9	CONSTRUCTION DETAILS
10	EROSION CONTROL DETAILS
11	SUMMARY TABLES
12 - 16	CROSS SECTIONS

REVISIONS		
SHEET NO.	DATE	REVISED

PRELIMINARY

RECOMMENDED
FOR APPROVAL

DESIGN ENGINEER

DATE

DESIGNED: ZZH

DRAWN: SEJ

CHECKED: BJM

CHECKED: ZZH

INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX AND GENERAL NOTES

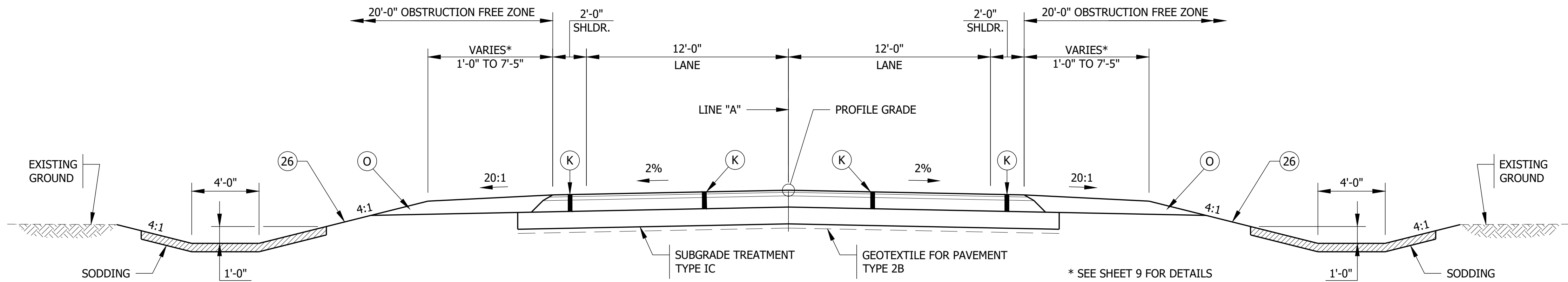
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VERTICAL SCALE

CONTRACT
R-44376

BRIDGE FILE
N/A
DESIGNATION
2200665

SHEET
2 of 16
PROJECT
2200682

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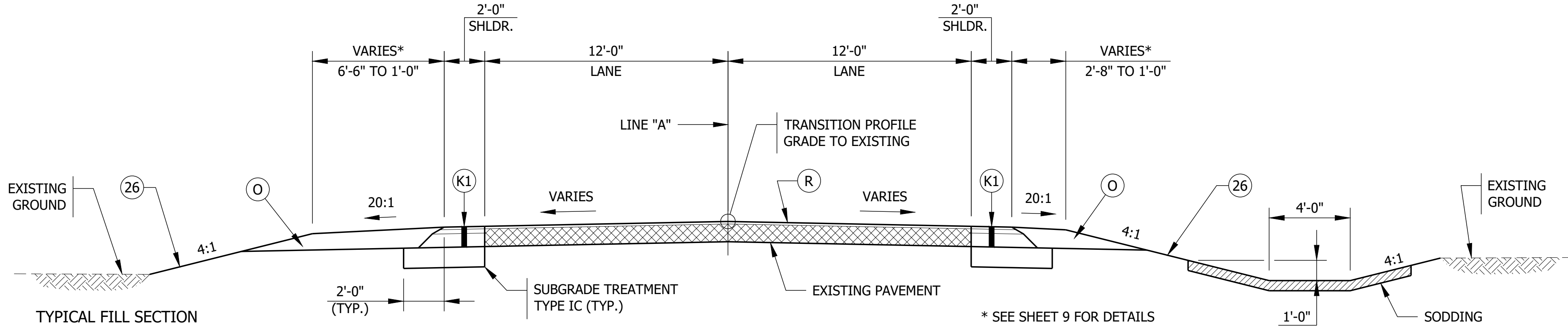


FULL DEPTH TYPICAL SECTION FOR U.S. 421

STA. 47+75.00 "A" TO STA. 51+90.00 "A"
SCALE: 1/4" = 1'-0"

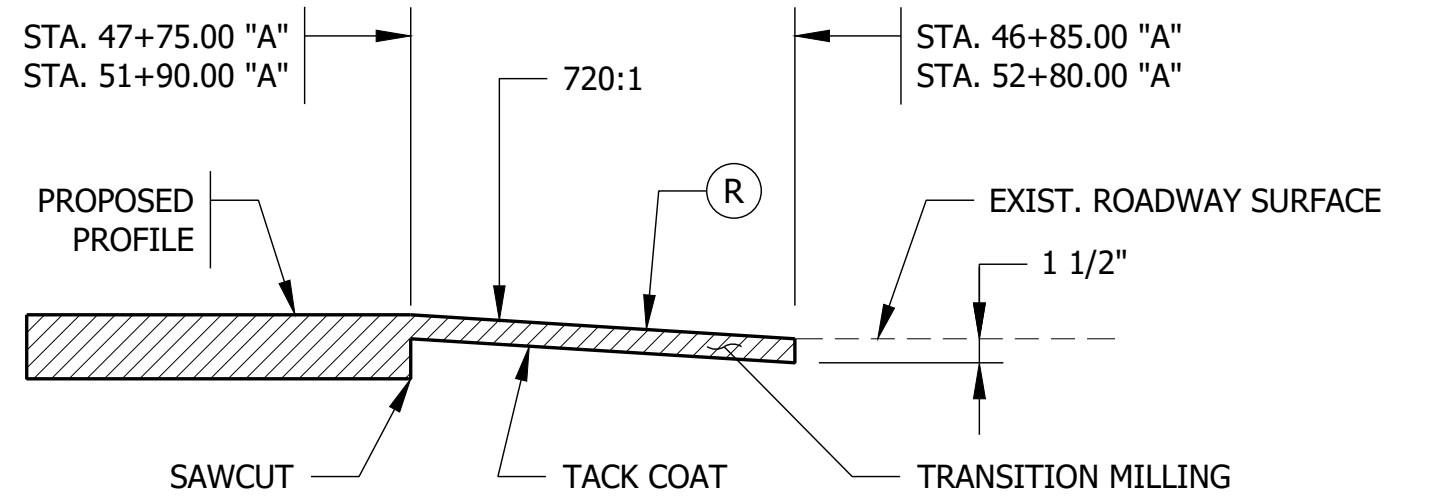
LEGEND

- (K) 165 LBS/SYD QC/QA HMA, 3, 58S, SURFACE, 9.5MM ON
275 LBS/SYD QC/QA HMA, 3, 58S, INTERMEDIATE, 19.0MM ON
660 LBS/SYD QC/QA HMA, 3, 58S, BASE, 25.0MM
- (K1) WIDENING WITH HMA TYPE B CONSISTING OF:
165 LBS/SYD QC/QA HMA, 3, 58S, SURFACE, 9.5MM ON
275 LBS/SYD HMA INTERMEDIATE, TYPE B ON
660 LBS/SYD HMA BASE, TYPE B
- TACK COAT TO BE PLACED BETWEEN HMA LAYERS. JOINT
ADHESIVE TO BE INSTALLED AT ALL LONGITUDINAL JOINTS IN
THE SURFACE AND INTERMEDIATE LAYER. LIQUID ASPHALT
SEALANT TO BE PLACED CENTERED ON THE LONGITUDINAL
JOINTS THAT HAVE JOINT ADHESIVE INSTALLED.
- (O) 10" COMPACTED AGGREGATE, NO. 53
- (26) MULCHED SEEDING, R
- (R) 165 LBS/SYD QC/QA HMA, 3, 58S, SURFACE, 9.5MM ON
TRANSITION MILLING



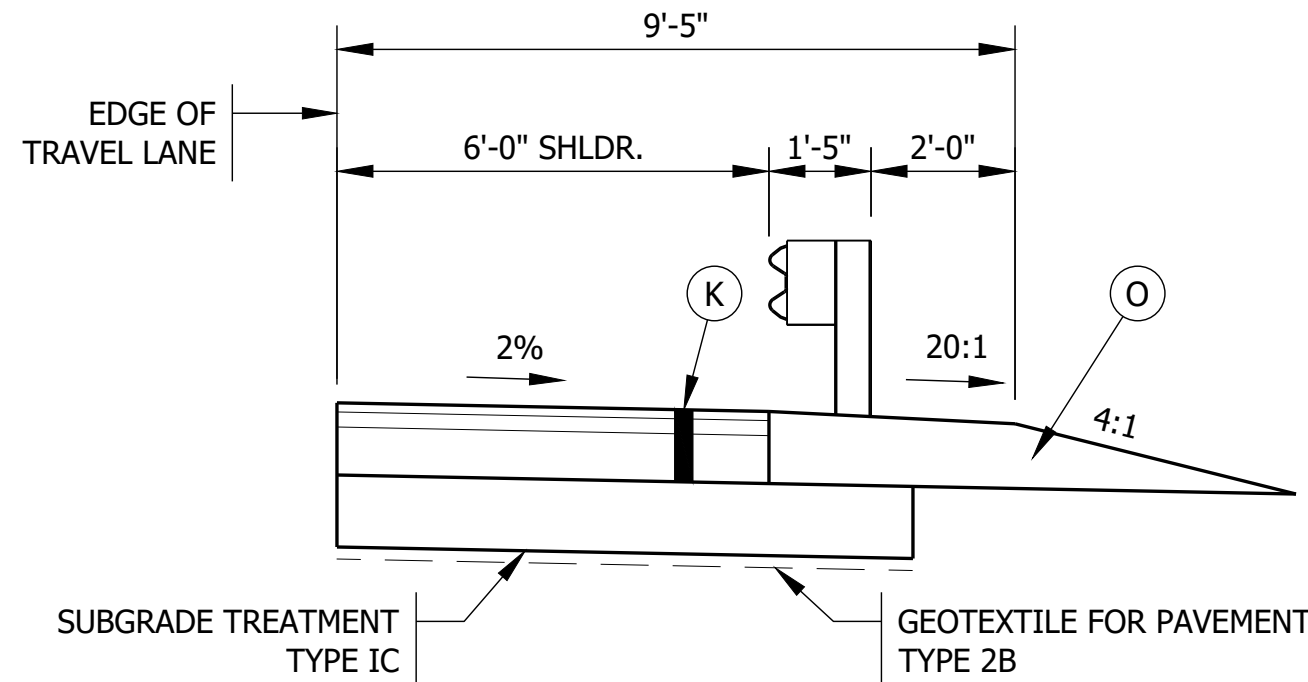
TYPICAL SECTION - INCIDENTAL CONSTRUCTION

STA. 46+85.00 "A" TO STA. 47+75.00 "A"
STA. 51+90.00 "A" TO STA. 52+80.00 "A"
SCALE: 1/4" = 1'-0"



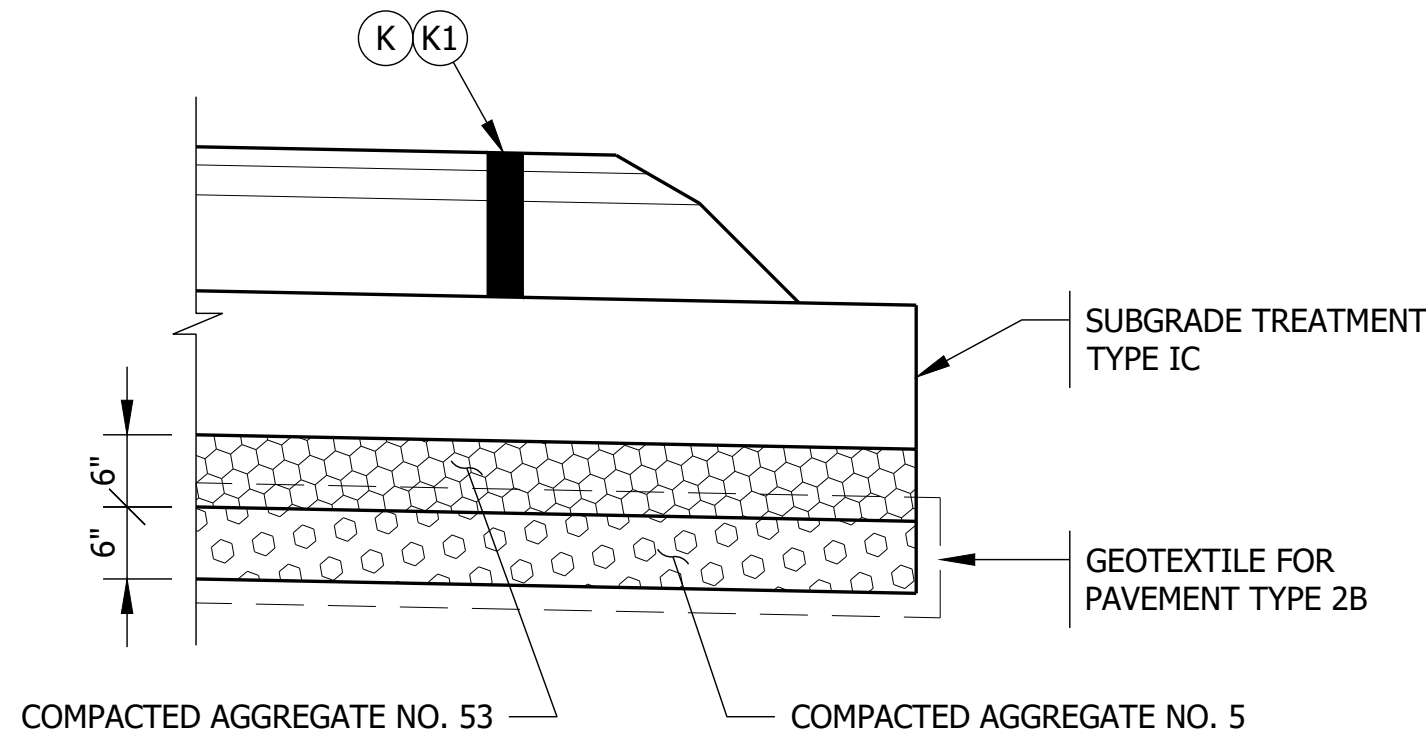
ASPHALT MILLING DETAIL

NOT TO SCALE



TYPICAL SECTION WITH GUARDRAIL

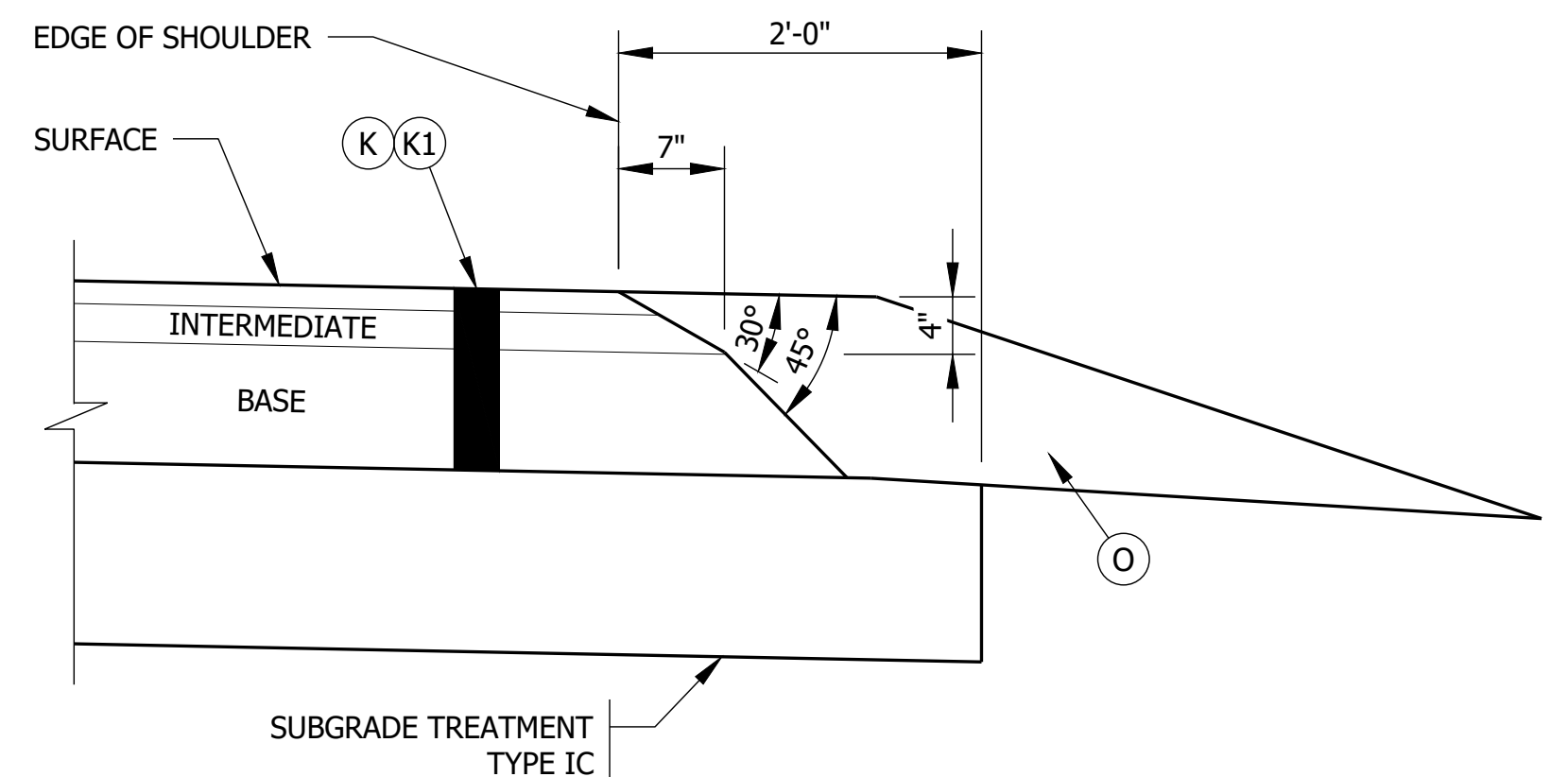
STA. 49+27.00 "A" TO STA. 51+70.75 "A" LT.
STA. 48+33.25 "A" TO STA. 50+77.00 "A" RT.
SCALE: 3/8" = 1'-0"



SUBGRADE IMPROVEMENT DETAIL

SCALE: 3/4" = 1'-0"

NOTE: SUBGRADE IMPROVEMENT REQUIRED ONLY IN
LOCATIONS OF UNSUITABLE SOILS IN ACCORDANCE WITH
THE GEOTECHNICAL REPORT.



SAFETY EDGE ON HMA PAVEMENT

SCALE: 1" = 1'-0"

NOTE: SAFETY EDGE IS NOT REQUIRED
IN FRONT OF GUARDRAIL.

PRELIMINARY

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: ZZH	DRAWN: SEJ	
CHECKED: BJM	CHECKED: ZZH	

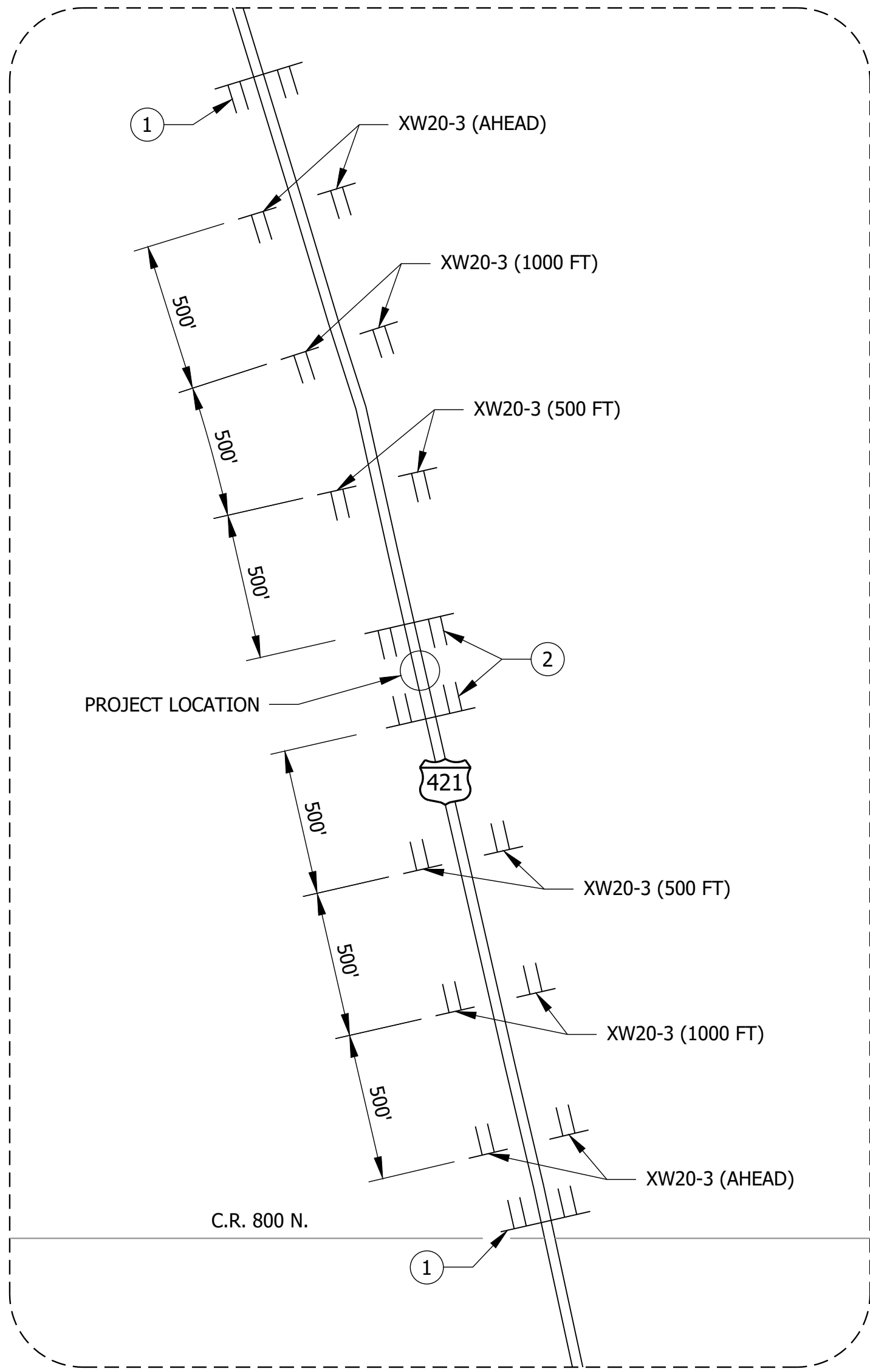
INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
	2200665
	SHEET
	3 of 16
CONTRACT	PROJECT
R-44376	2200682

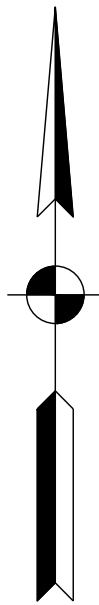
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March 3, 2025 12:09:00 PM / Zed Hot

File Name:
Modified / By:
Plotted / By:



PROJECT LOCATION DETAIL

NOT TO SCALE



LEGEND

- ① 24 LFT. OF TYPE III-B BARRICADES, STAGGERED WITH ROAD CLOSURE SIGN ASSEMBLY R11-4.
- ② 24 LFT. OF TYPE III-A BARRICADES WITH ROAD CLOSURE SIGN ASSEMBLY R11-2.
- ③ 24 LFT. OF TYPE III-B BARRICADES WITH ROAD CLOSURE SIGN R11-3A AND XM4-10 SIGN.

■■■ DETOUR ROUTE

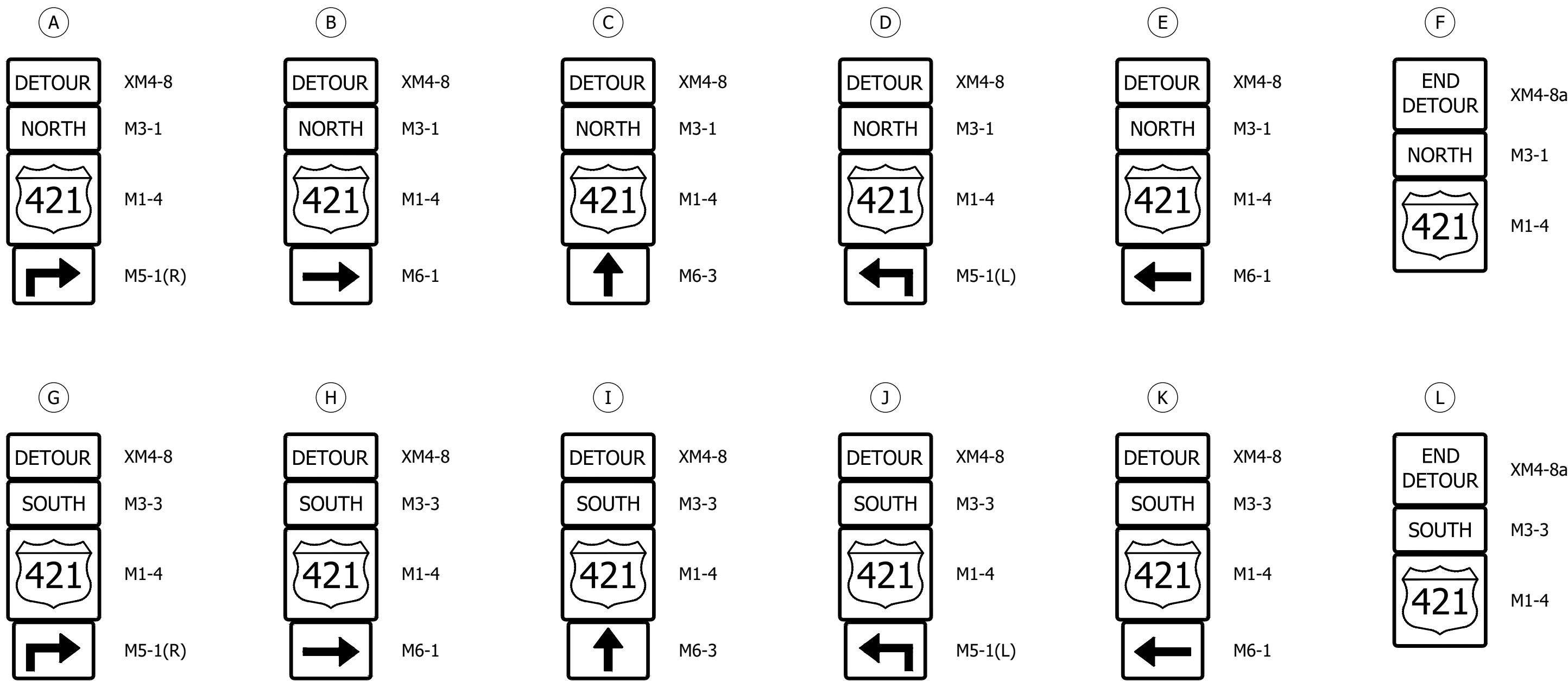
TT SIGN ASSEMBLY

	PRELIMINARY	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 4000' UNLESS NOTED		BRIDGE FILE N/A	
						VERTICAL SCALE		DESIGNATION 2200665	
		DESIGNED: ZZH		DRAWN: SEJ				SHEET 5 of 16	
		CHECKED: BJM		CHECKED: ZZH		CONTRACT R-44376		PROJECT 2200682	

PRELIMINARY

RECOMMENDED FOR APPROVAL _____		
DESIGN ENGINEER _____ DATE _____		
DESIGNED: ZZH	DRAWN: SEJ	
CHECKED: BJM	CHECKED: ZZH	

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Modified / By:
Plotted / By:



U.S. 421
CLOSED ON OR AFTER
XXXX

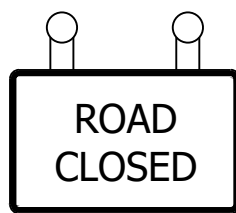
XG20-5



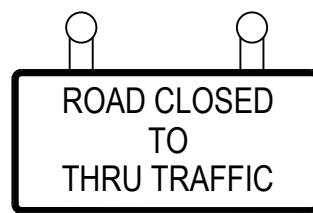
XW20-2



XW20-3



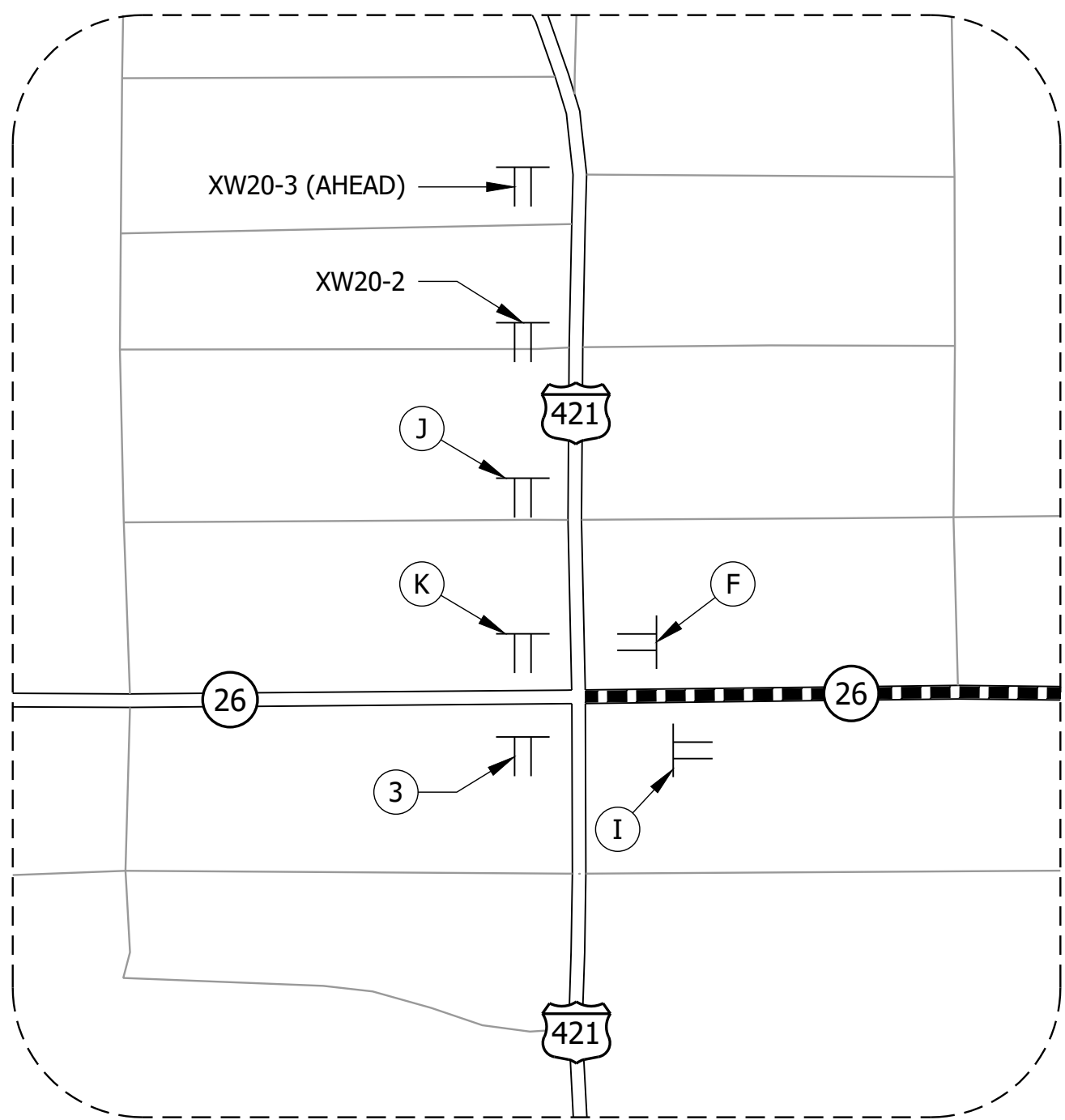
R11-2



R11-4

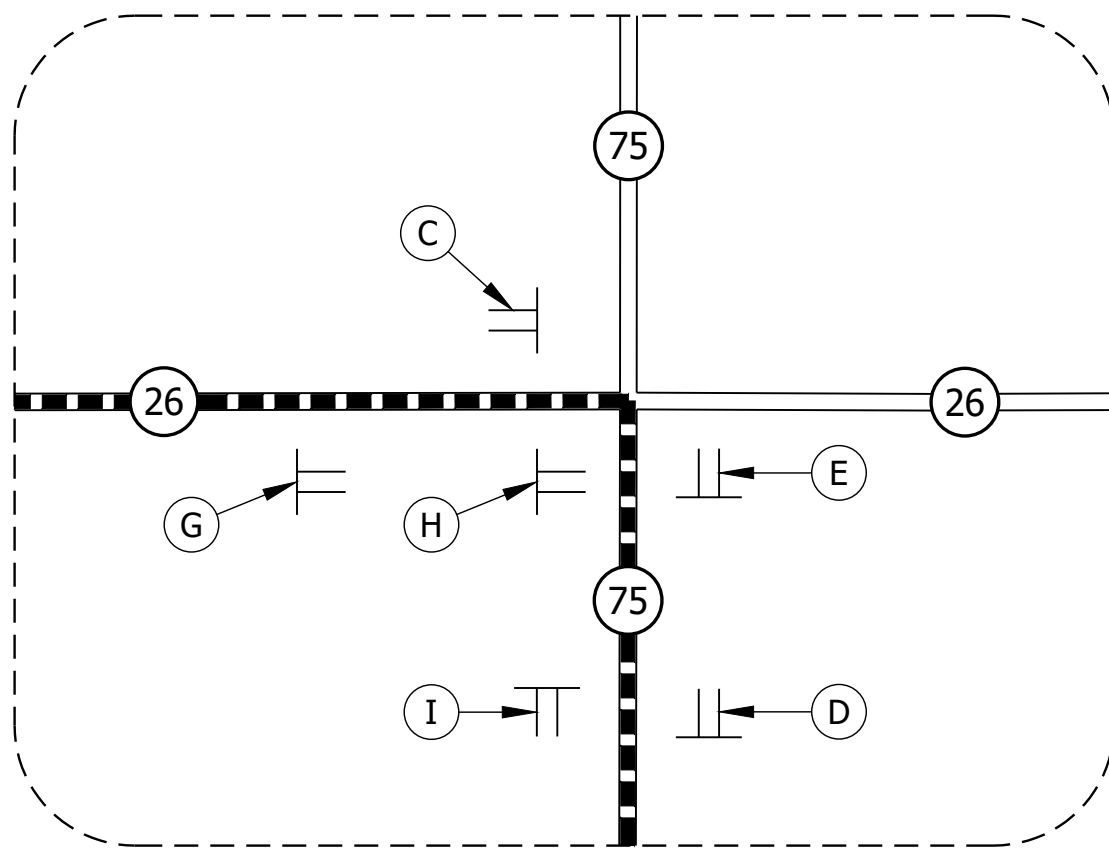


R11-3A
XM4-10



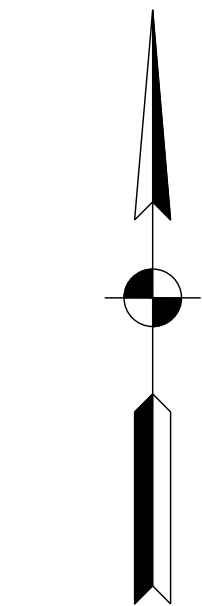
ROSSVILLE DETAIL

NOT TO SCALE



S.R. 26/S.R. 75 INTERSECTION DETAIL

NOT TO SCALE

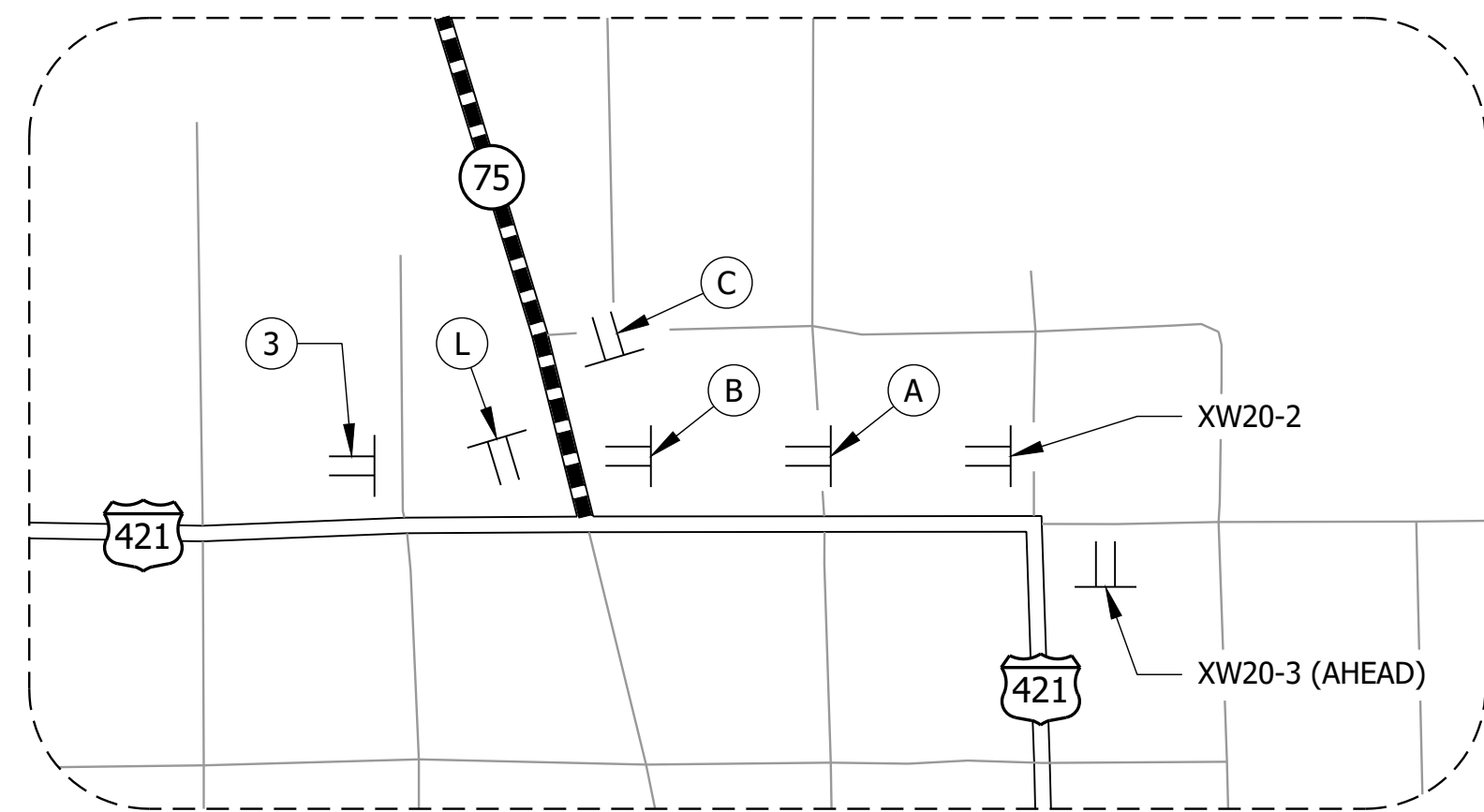


LEGEND

- 24 LFT. OF TYPE III-B BARRICADES, STAGGERED WITH ROAD CLOSURE SIGN ASSEMBLY R11-4.
- 24 LFT. OF TYPE III-A BARRICADES WITH ROAD CLOSURE SIGN ASSEMBLY R11-2.
- 24 LFT. OF TYPE III-B BARRICADES WITH ROAD CLOSURE SIGN R11-3A AND XM4-10 SIGN.

DETOUR ROUTE

SIGN ASSEMBLY



FRANKFORT DETAIL

NOT TO SCALE

CONSTRUCTION SIGN SCHEDULE

SIGN NO.	DESCRIPTION	SIZE (FT.)	TYPE	EST. QTY.
XG20-5	U.S. 421 CLOSED ON OR AFTER XX	5 X 3	A	2
XW20-2	DETOUR AHEAD	4 X 4	A	2
XW20-3	ROAD CLOSED XXXX	4 X 4	A	14
R11-2	ROAD CLOSED	4 X 2.5	-	2
R11-3A XM4-10	ROAD CLOSED XX MILES DETOUR (INSIDE ORANGE ARROW)	5 X 2.5 4 X 1.5	-	2
R11-4	ROAD CLOSED TO THRU TRAFFIC	5 X 2.5	-	2

DETOUR ROUTE MARKER ASSEMBLIES: 22 REQ'D
TYPE III-A BARRICADES: 48 LFT.
TYPE III-B BARRICADES: 96 LFT.

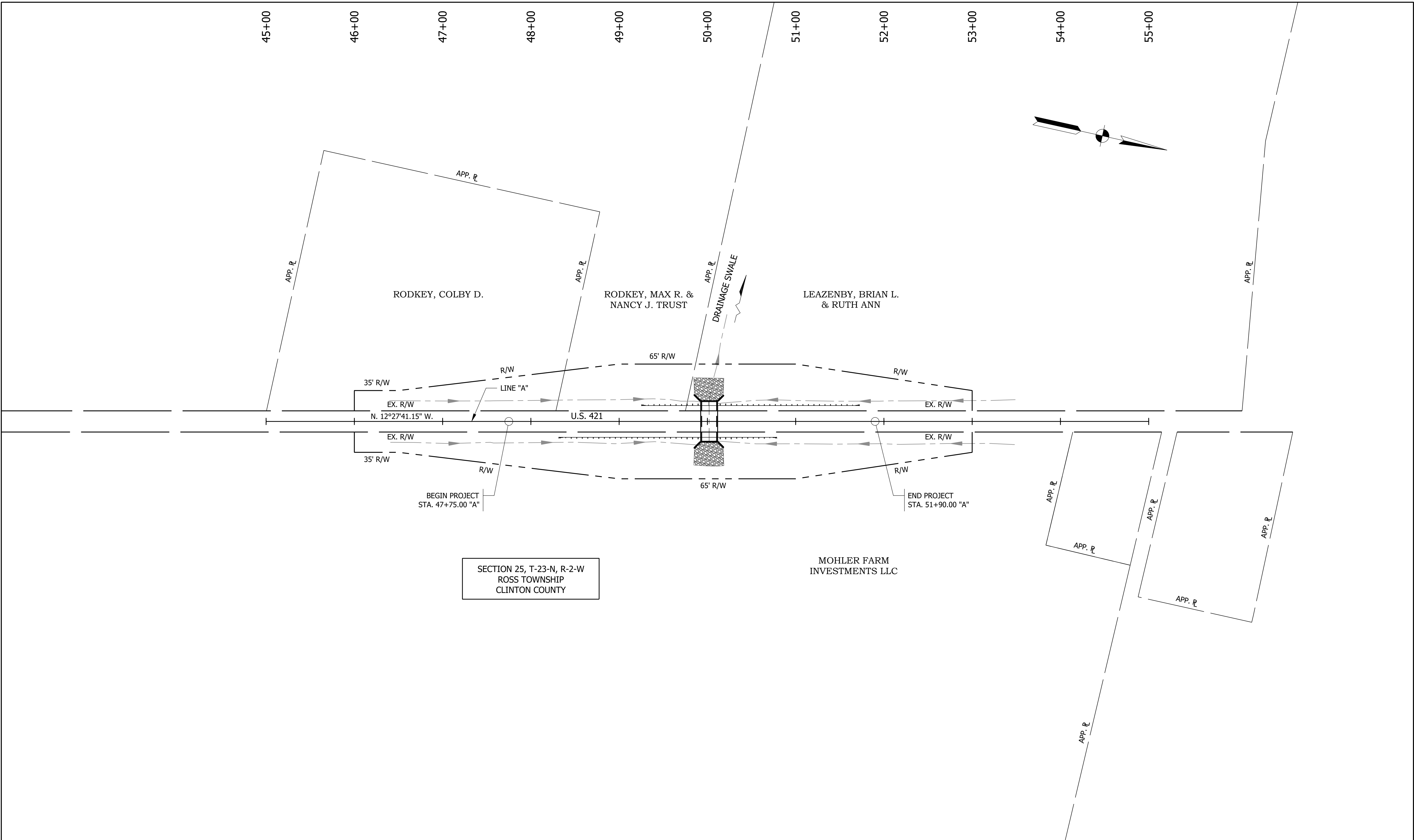
* DETOUR ROUTE MARKER ASSEMBLIES SHALL BE IN ACCORDANCE WITH STD. DWG. 801-TCDDT-04.

* TYPE B CONSTRUCTION WARNING LIGHTS SHALL BE USED WITH ALL SIGNS LOCATED ON BARRICADES AND AS SHOWN. TYPE A CONSTRUCTION WARNING LIGHTS SHALL BE USED ON ALL OTHER CONSTRUCTION SIGNS. (NOT PAY ITEMS.)

* TWO XG20-5 SIGNS TO BE PLACED AS DIRECTED BY THE ENGINEER.

TOTAL TYPE "A" SIGNS	18
ROAD CLOSURE SIGN ASSEMBLIES	6

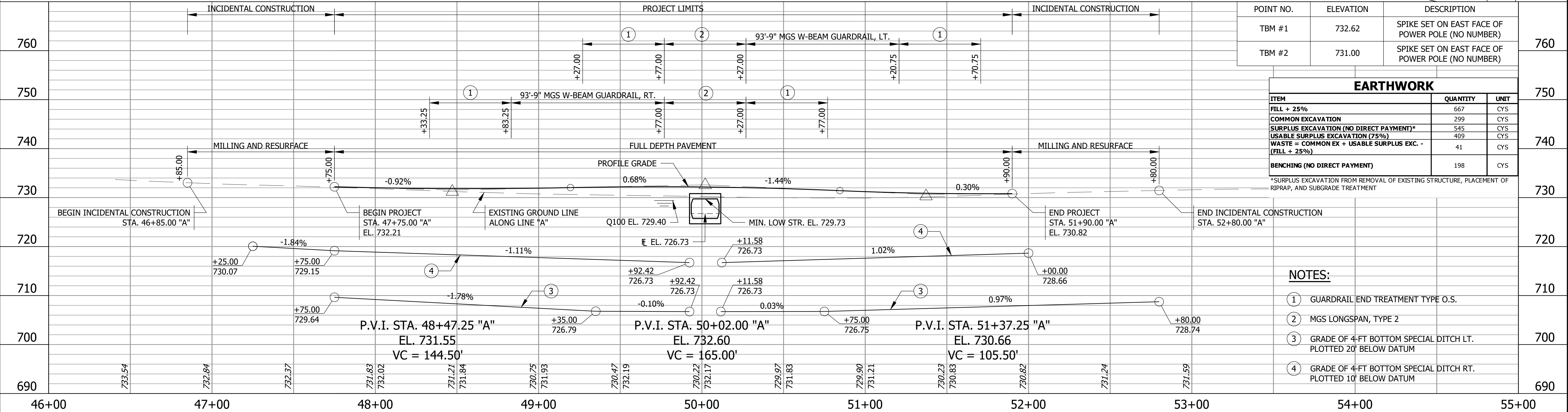
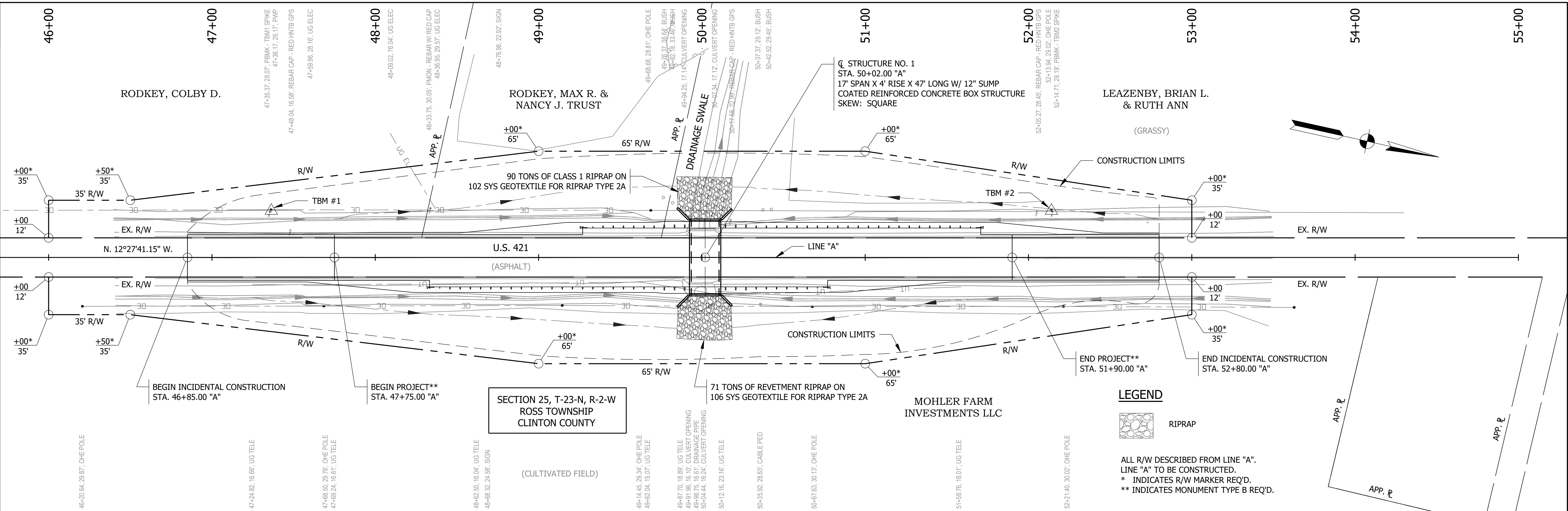
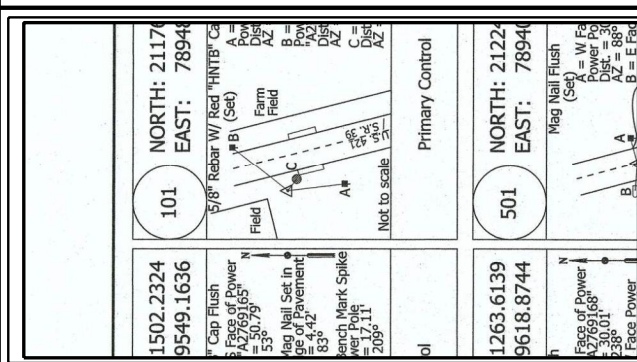
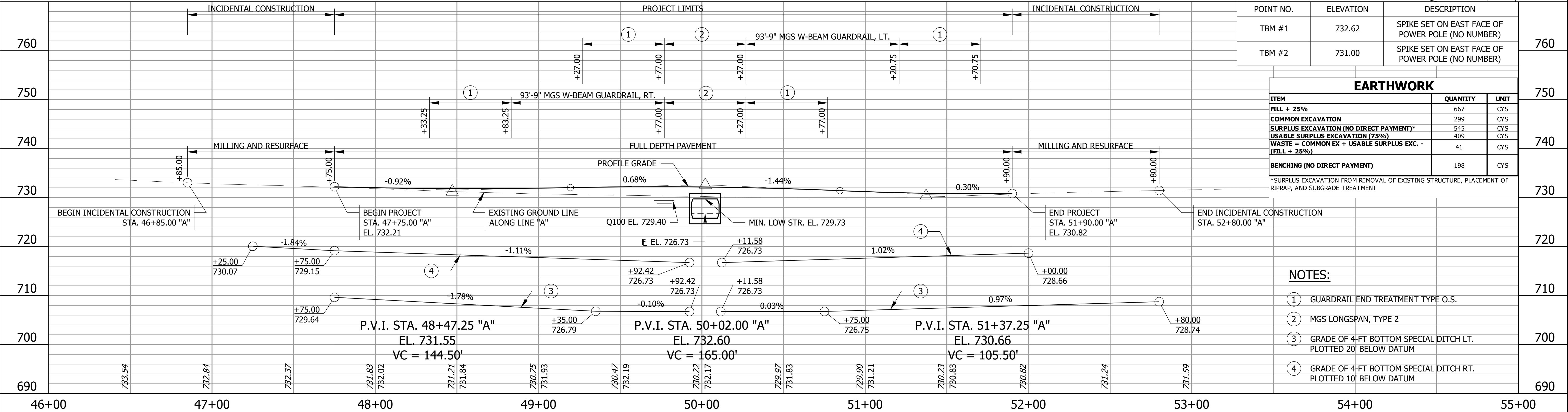
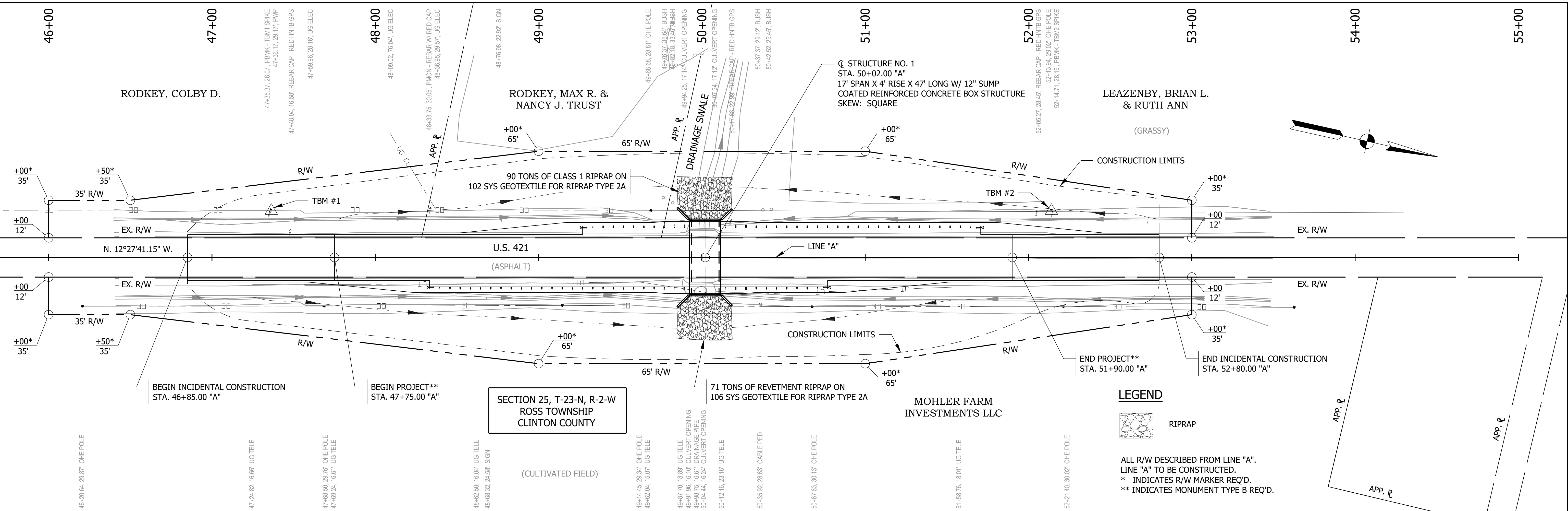
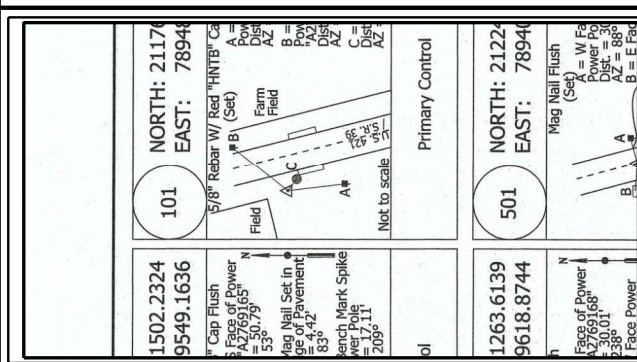
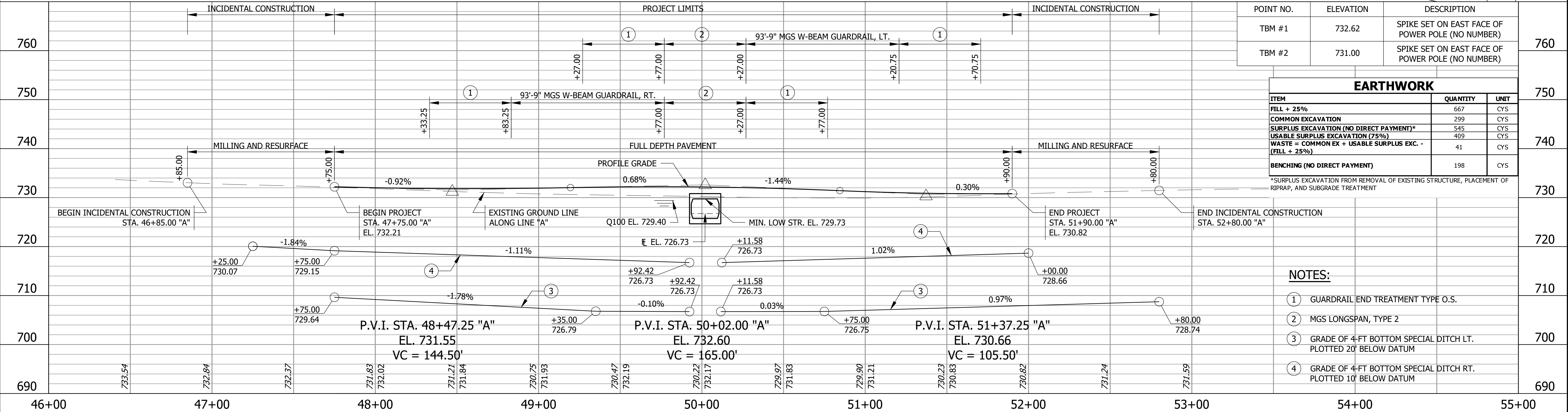
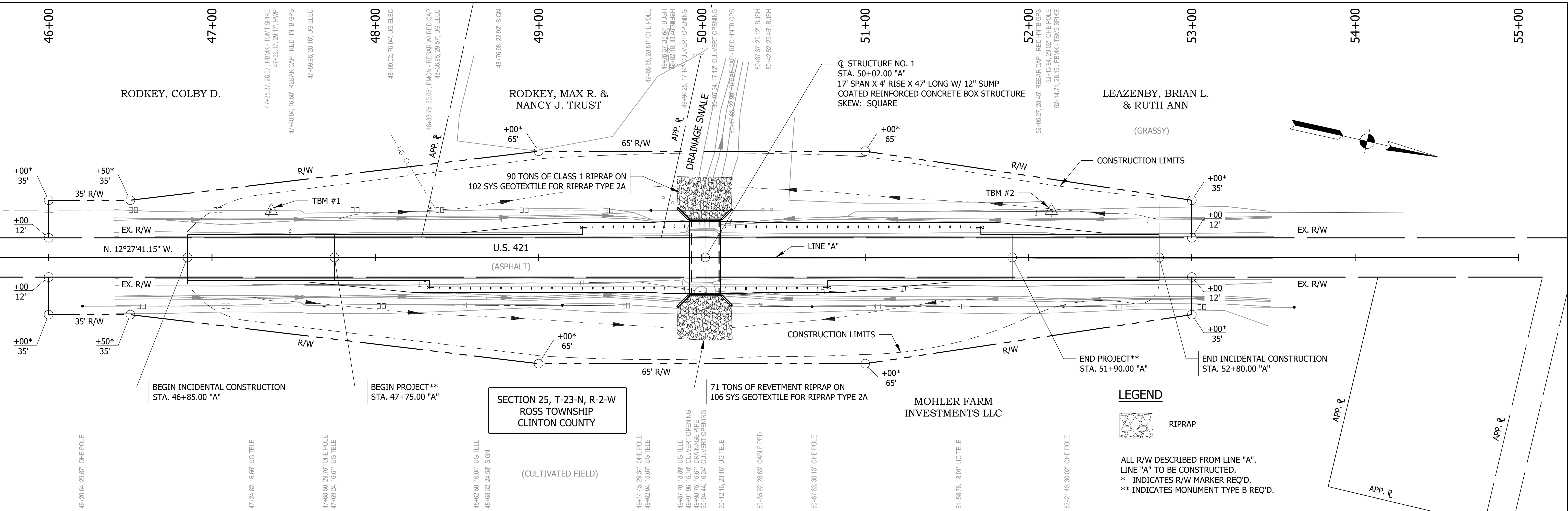
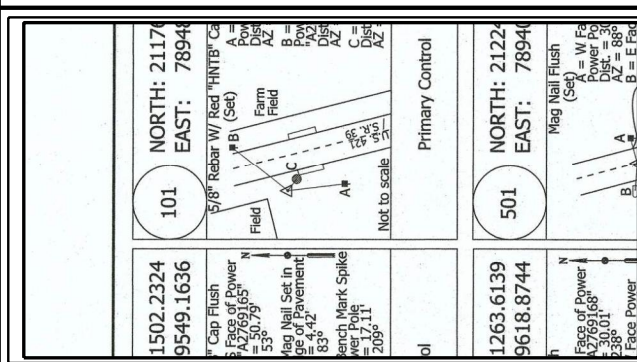
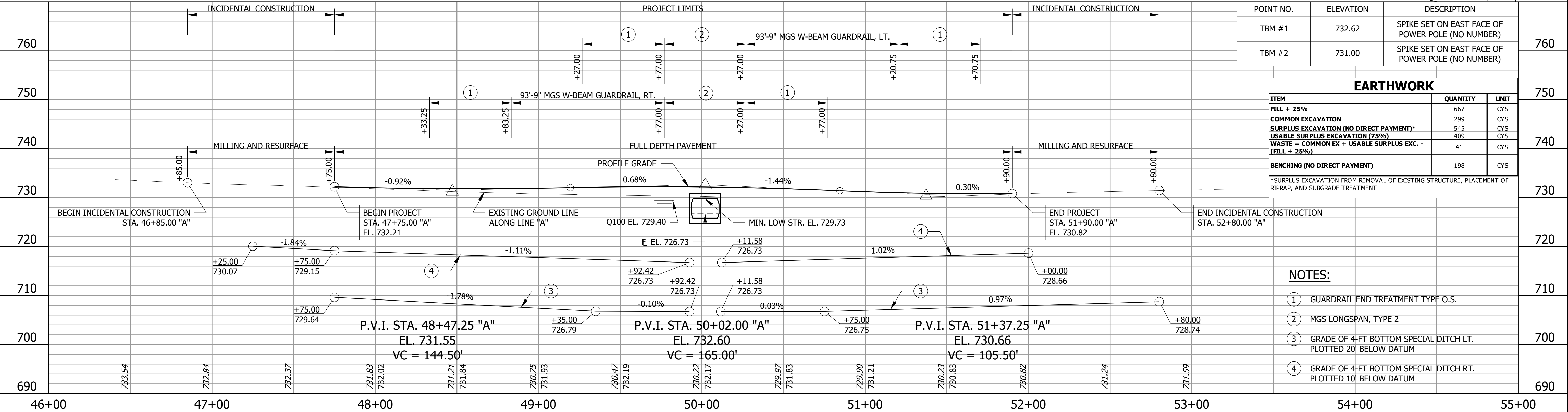
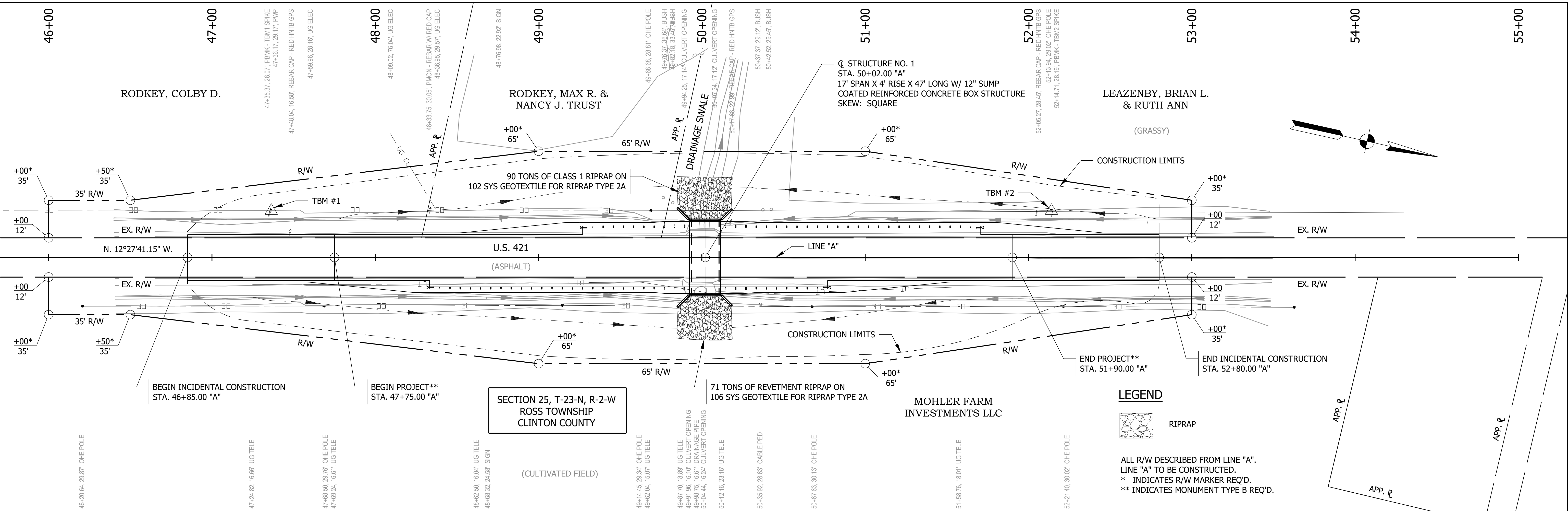
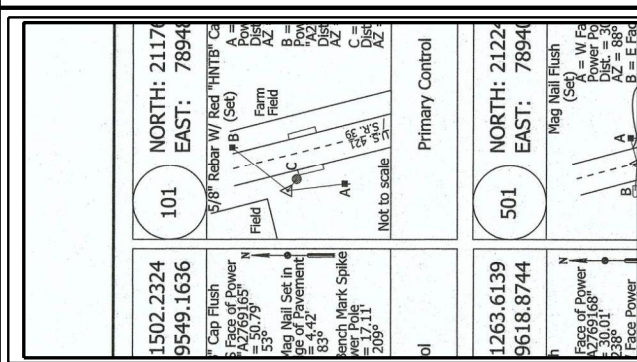
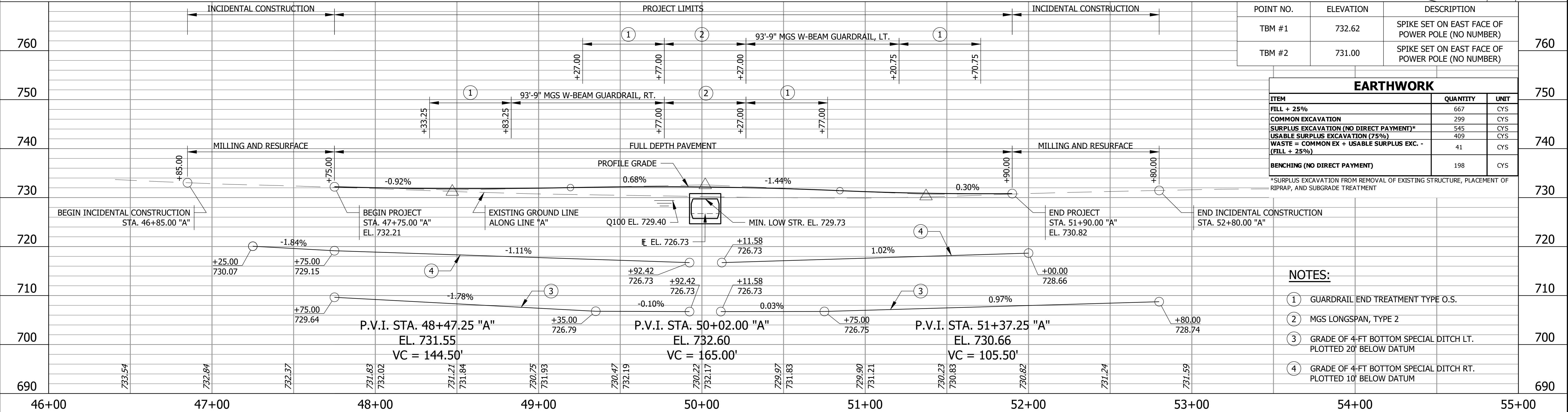
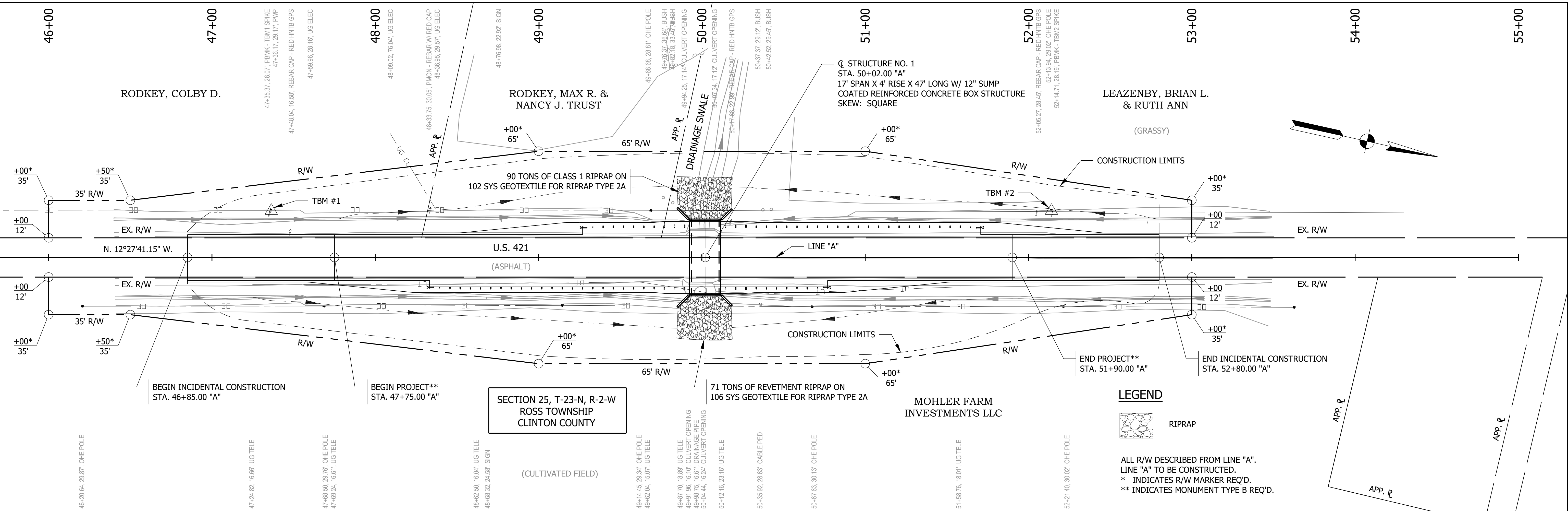
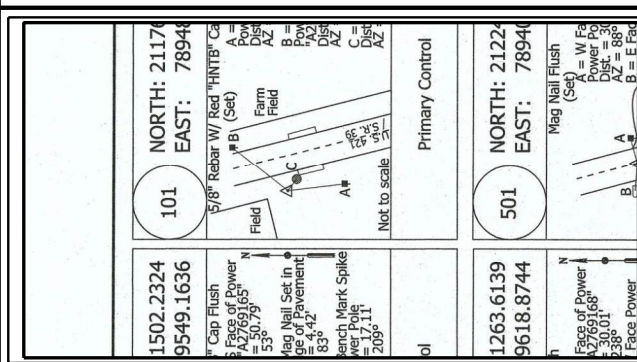
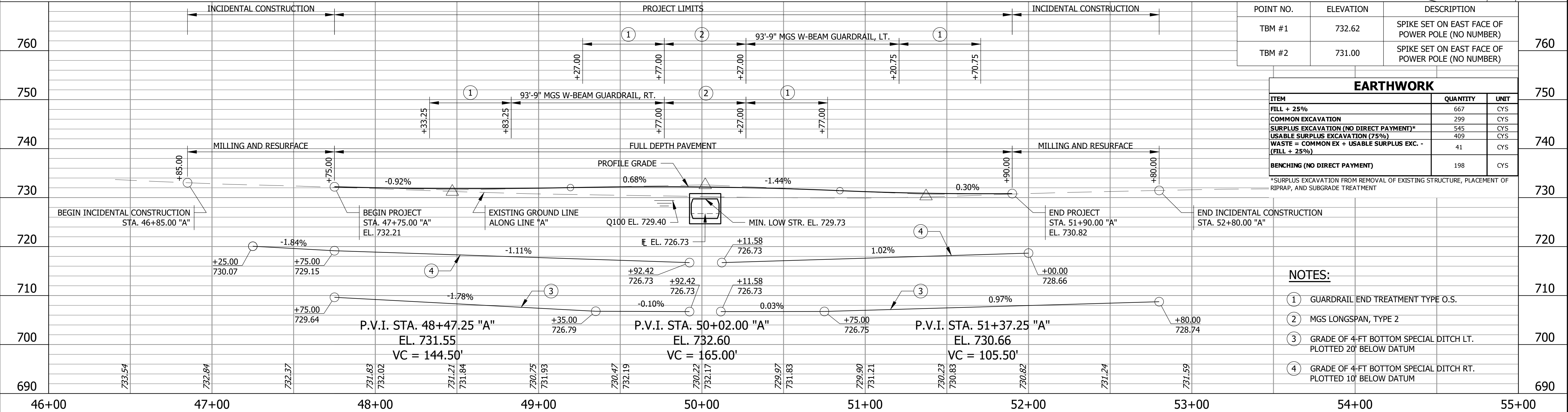
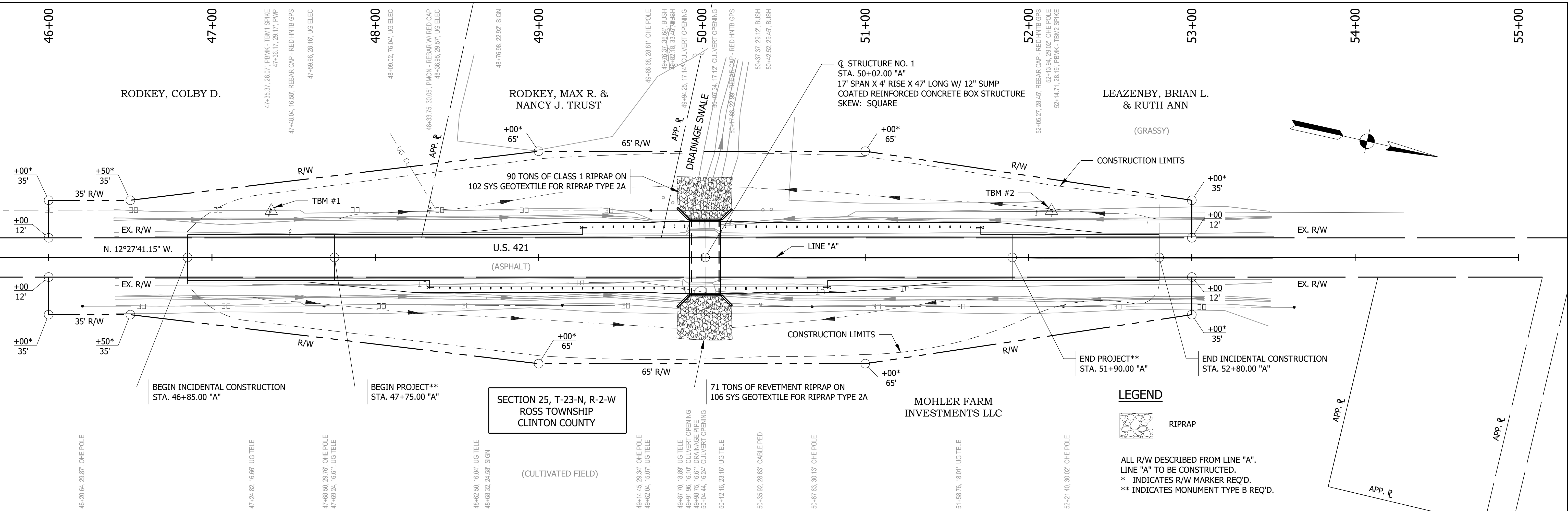
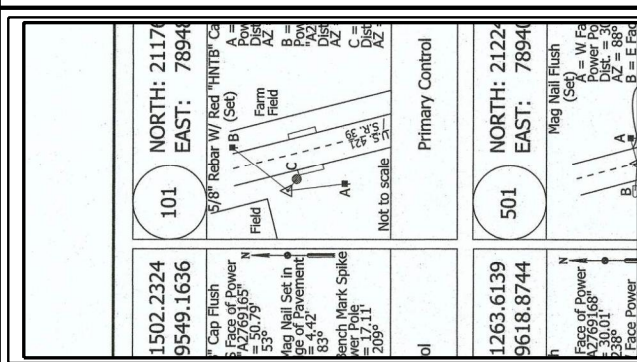
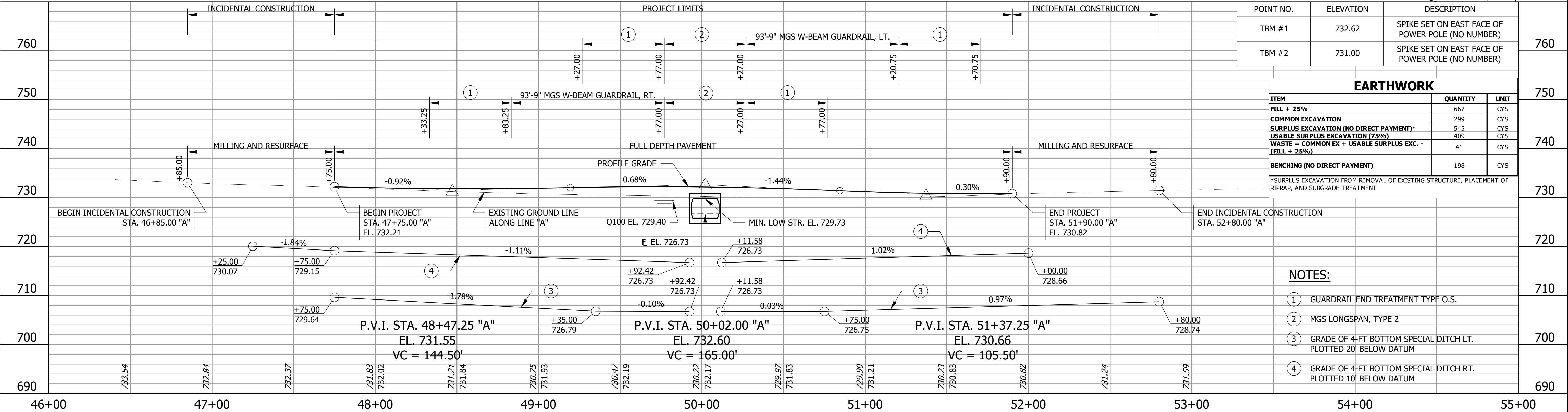
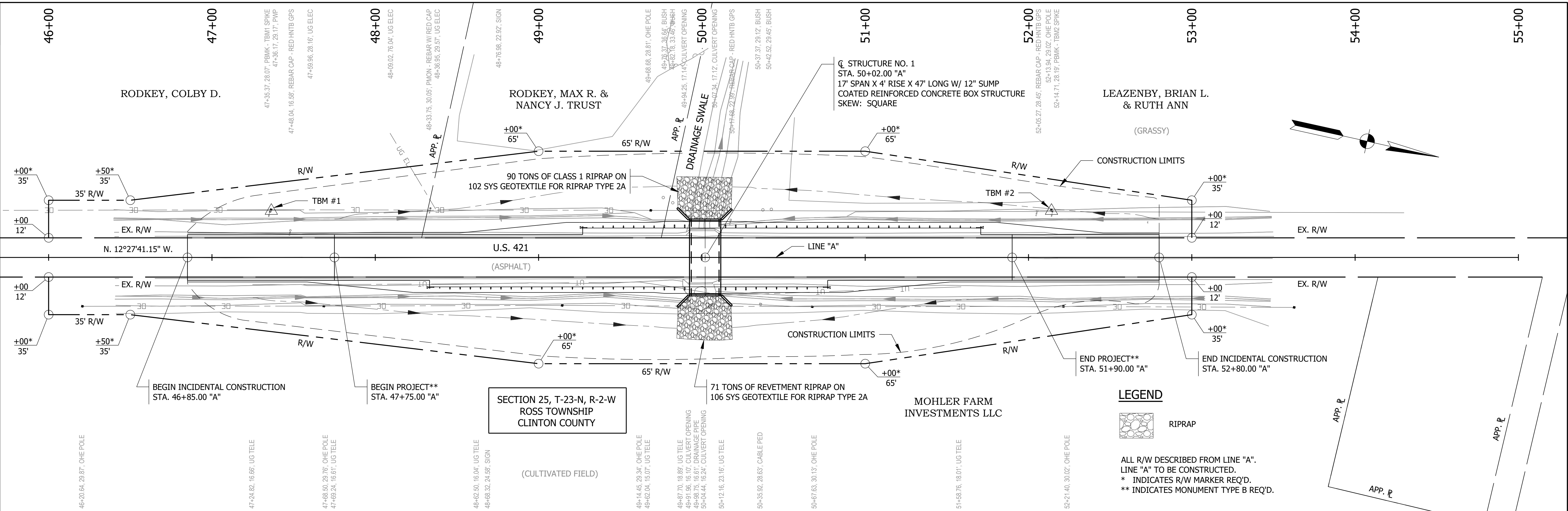
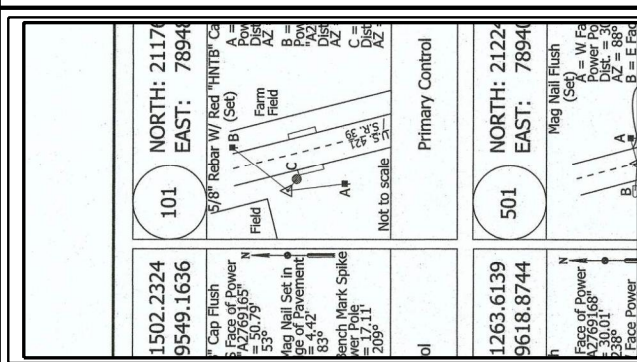
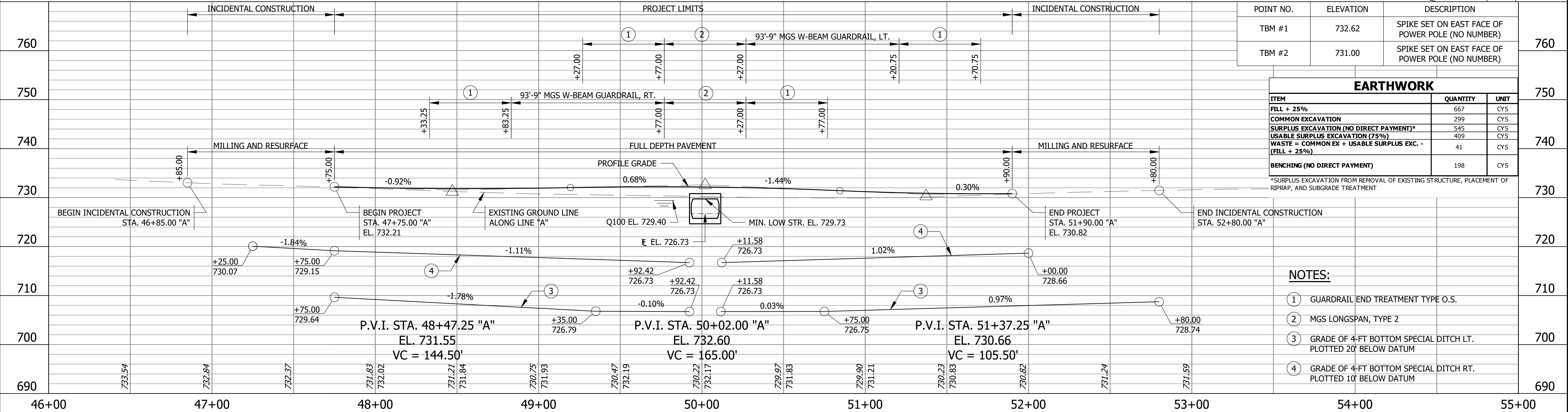
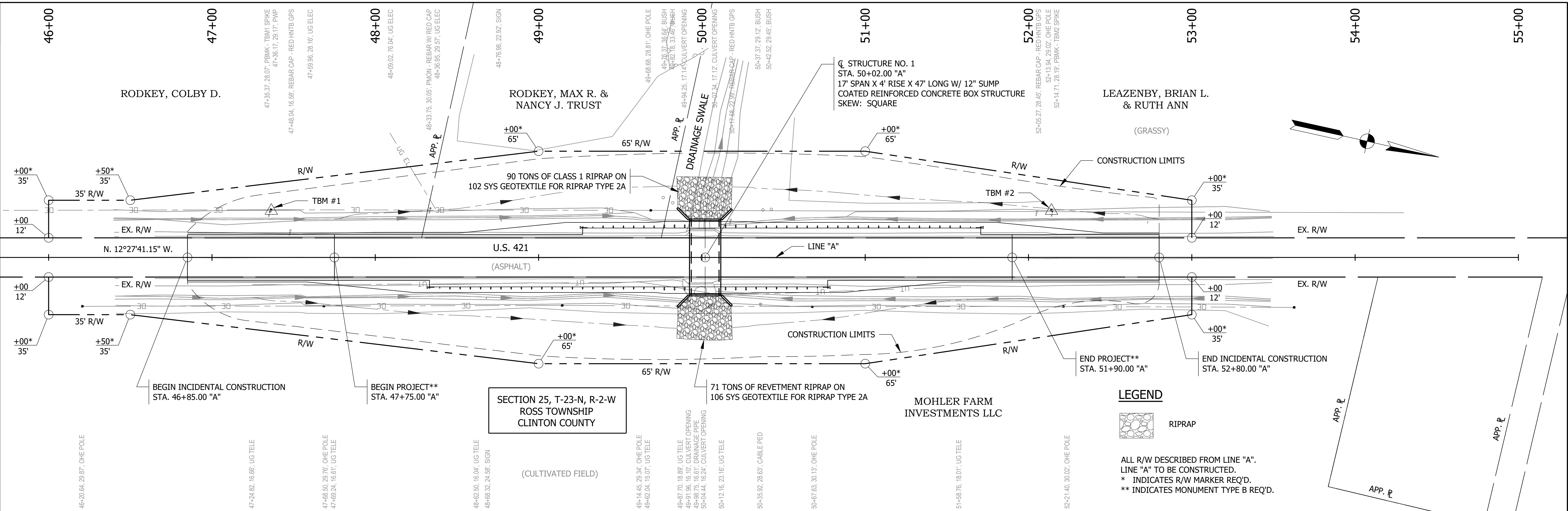
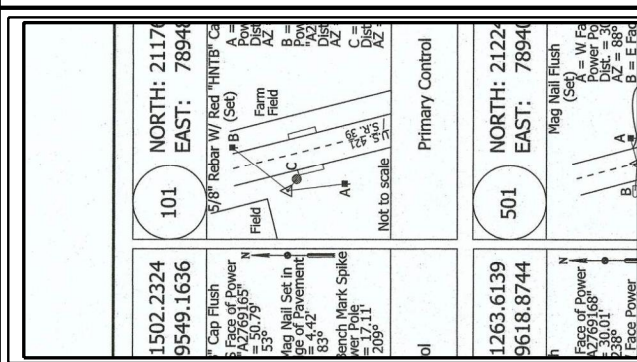
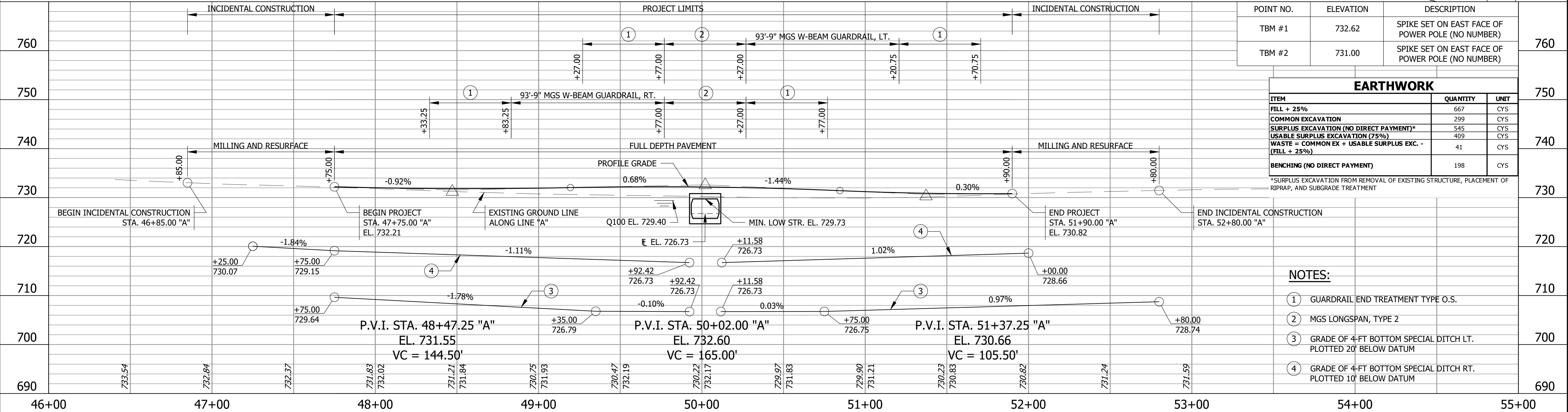
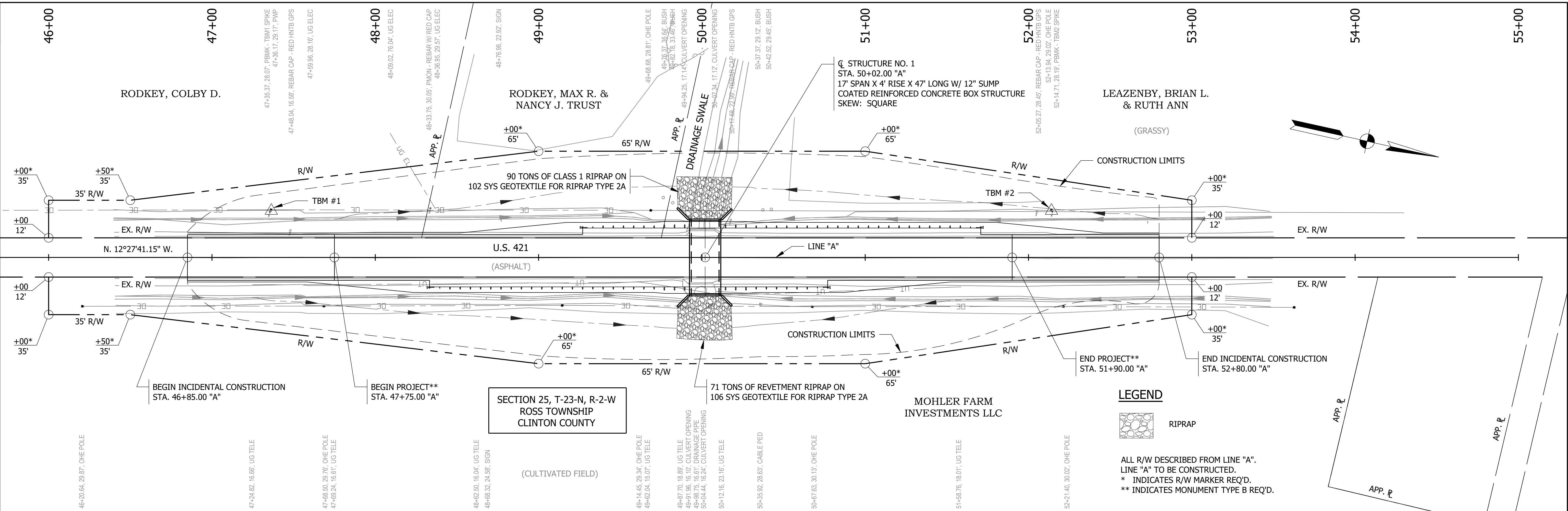
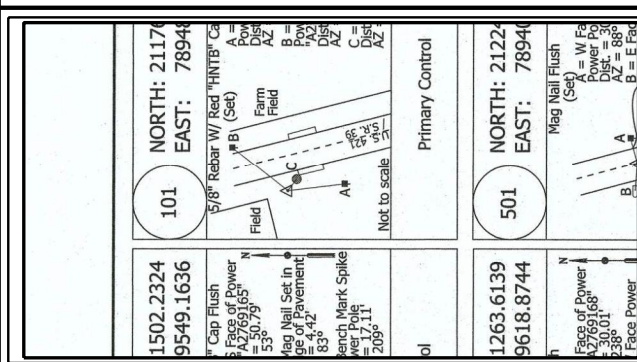
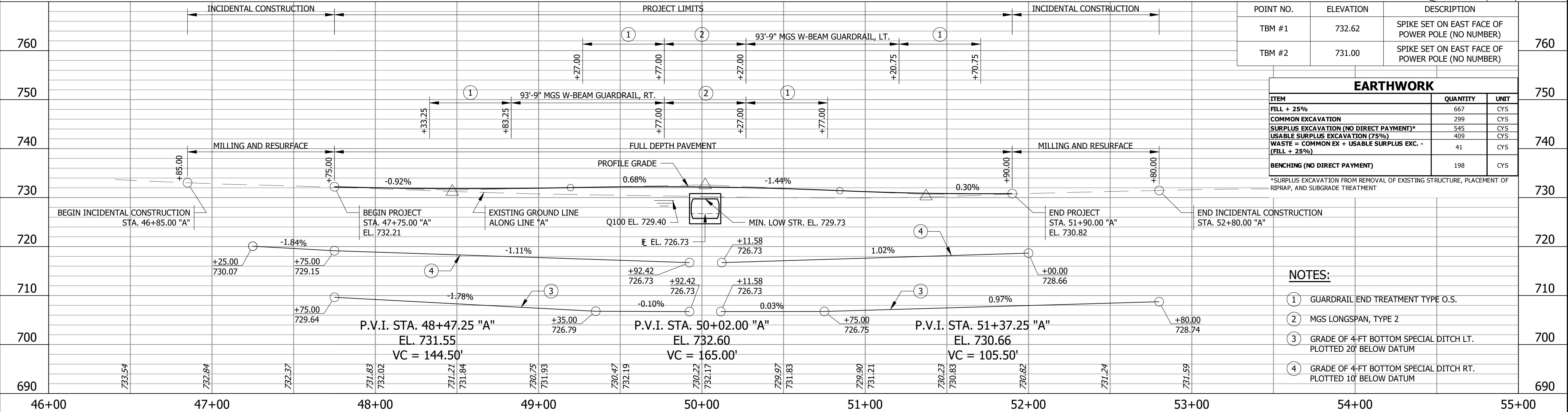
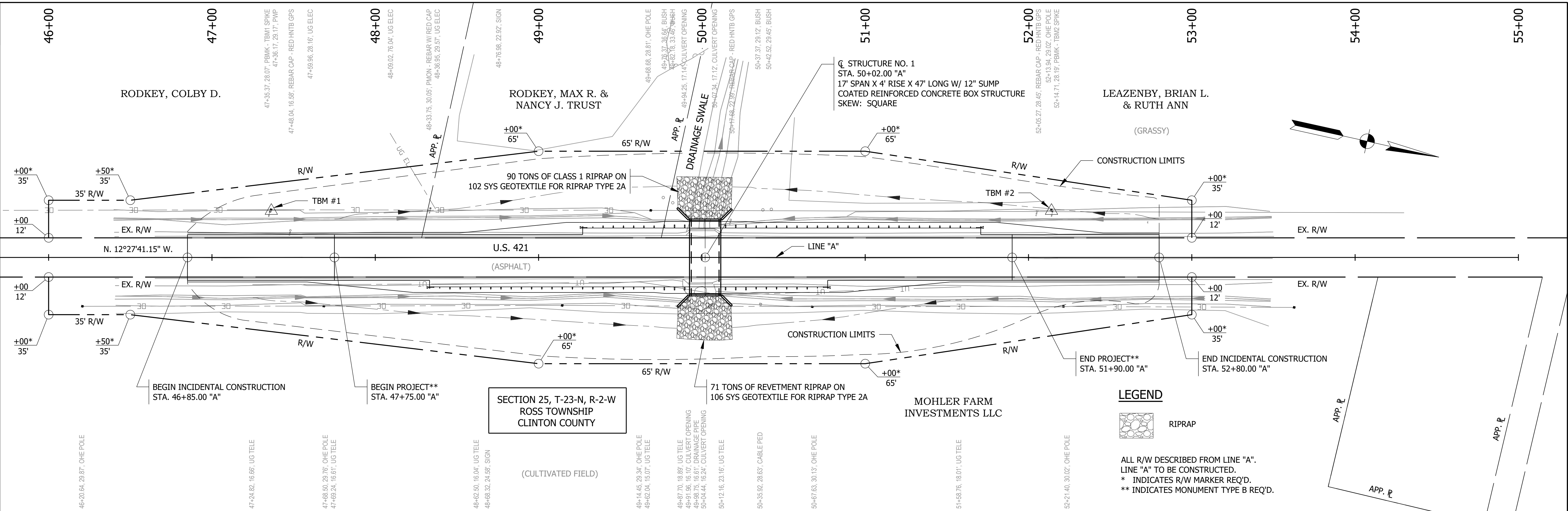
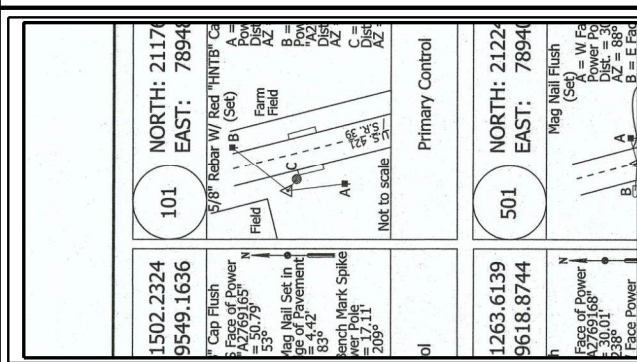
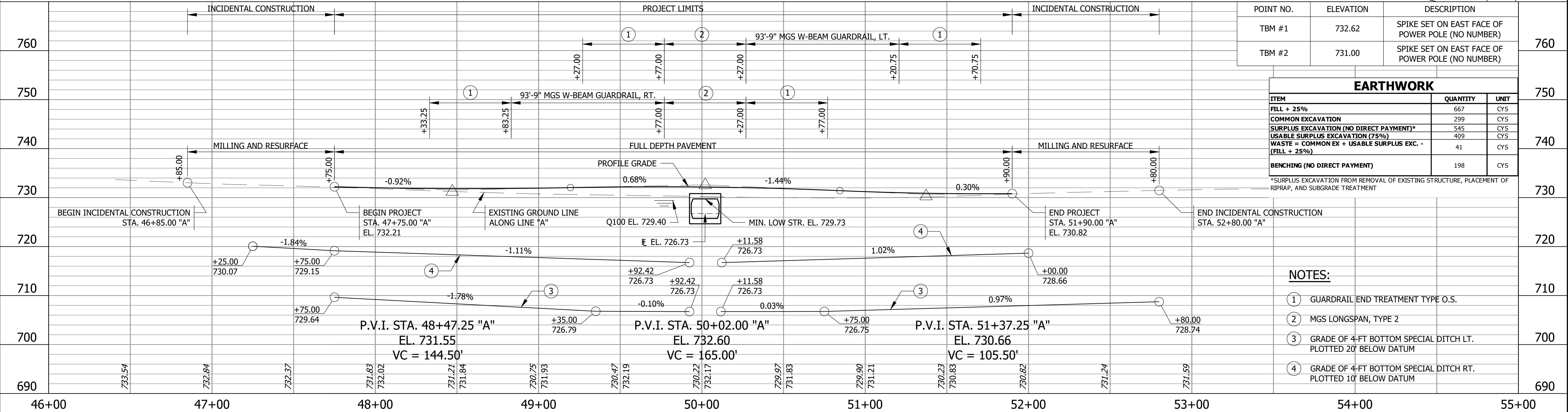
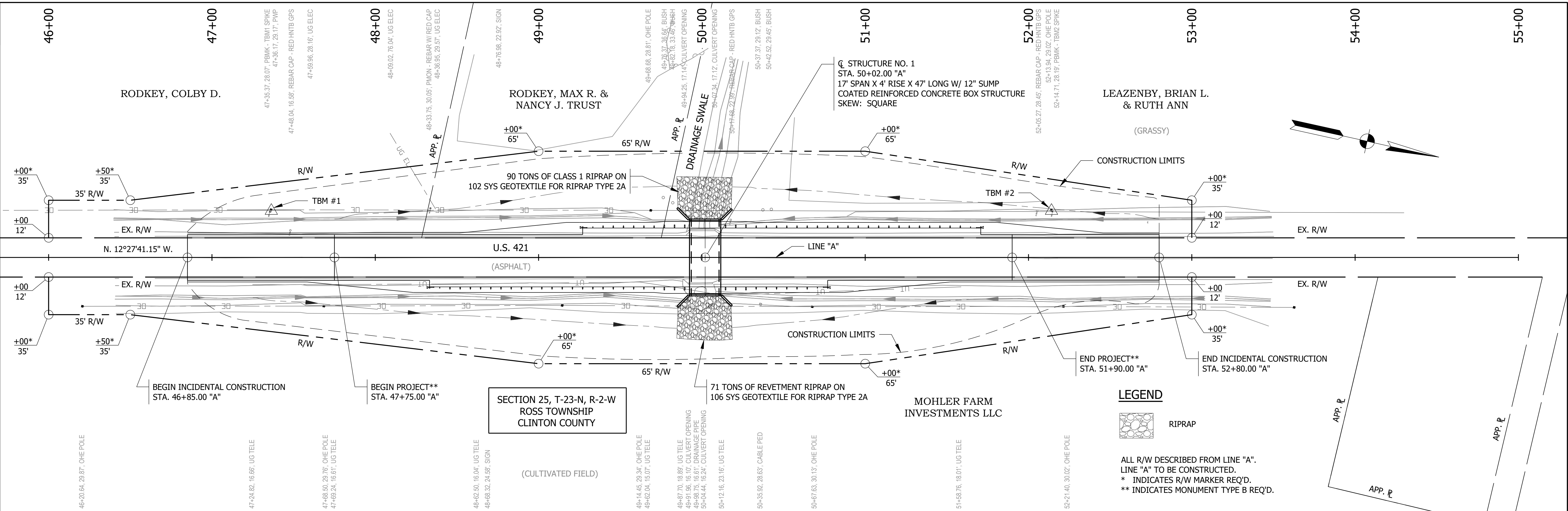
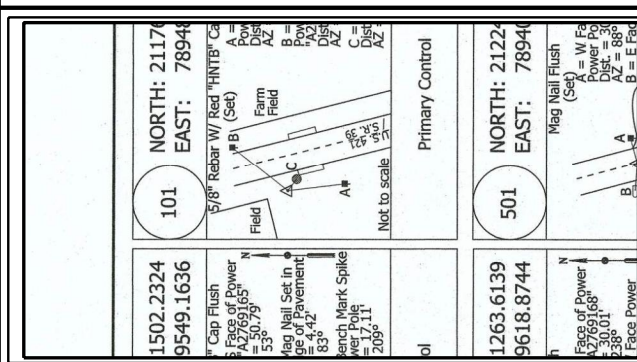
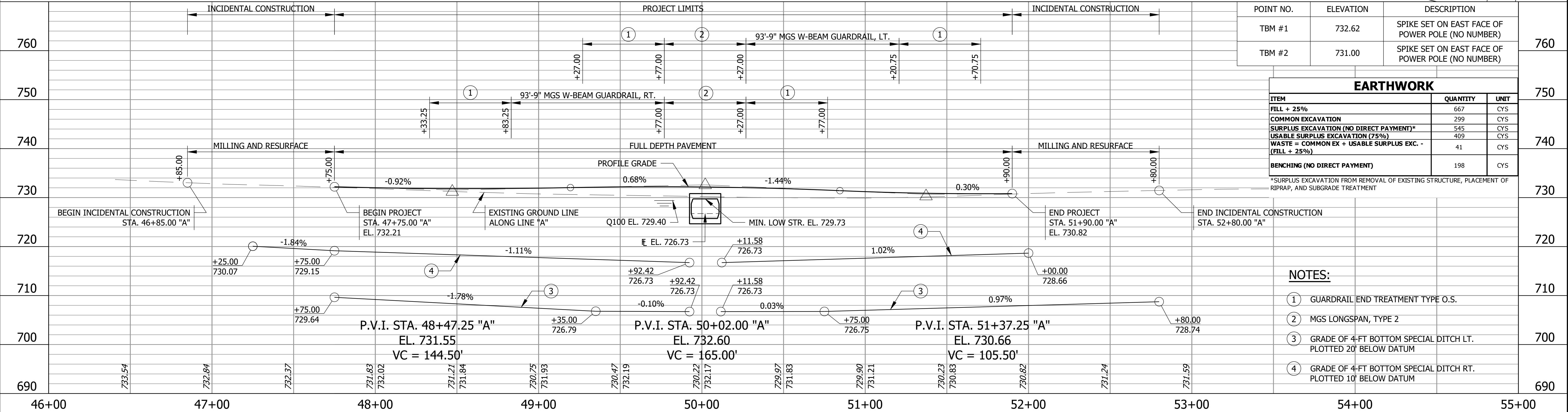
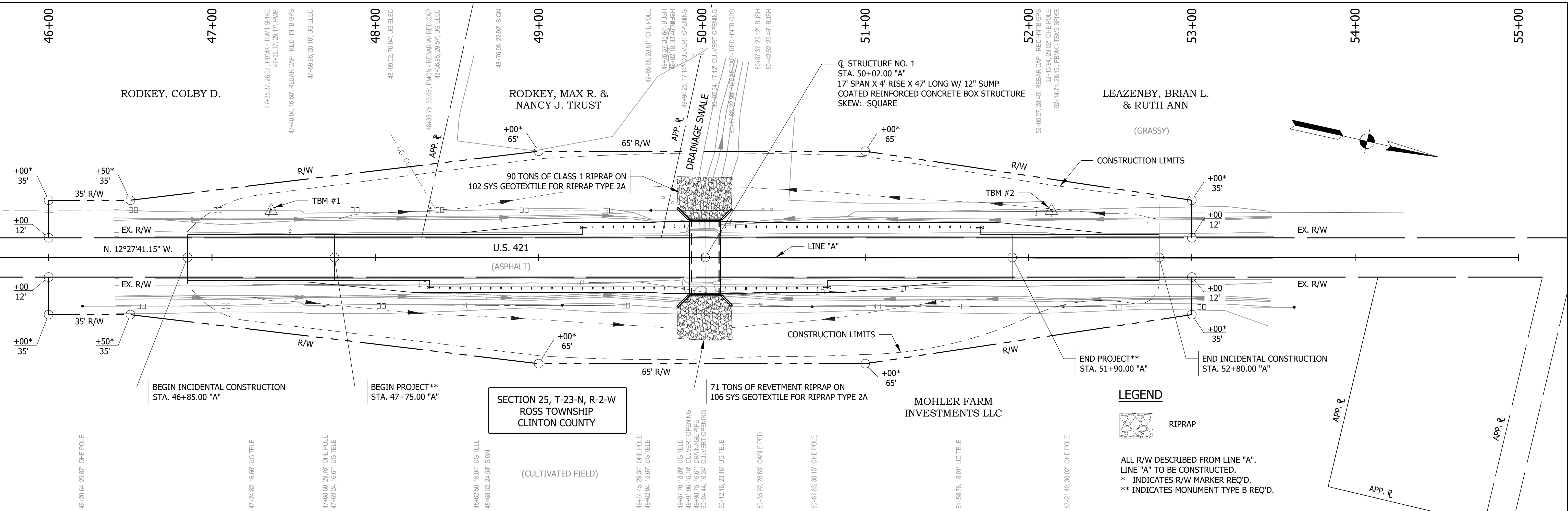
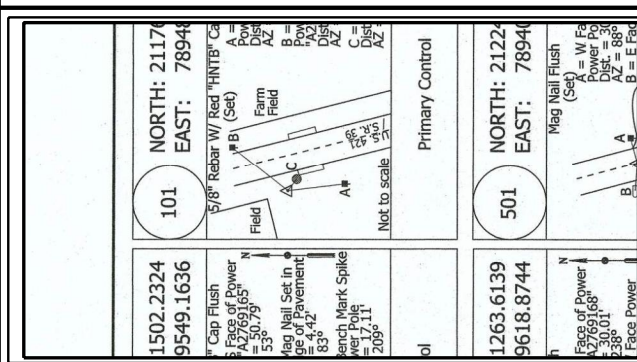
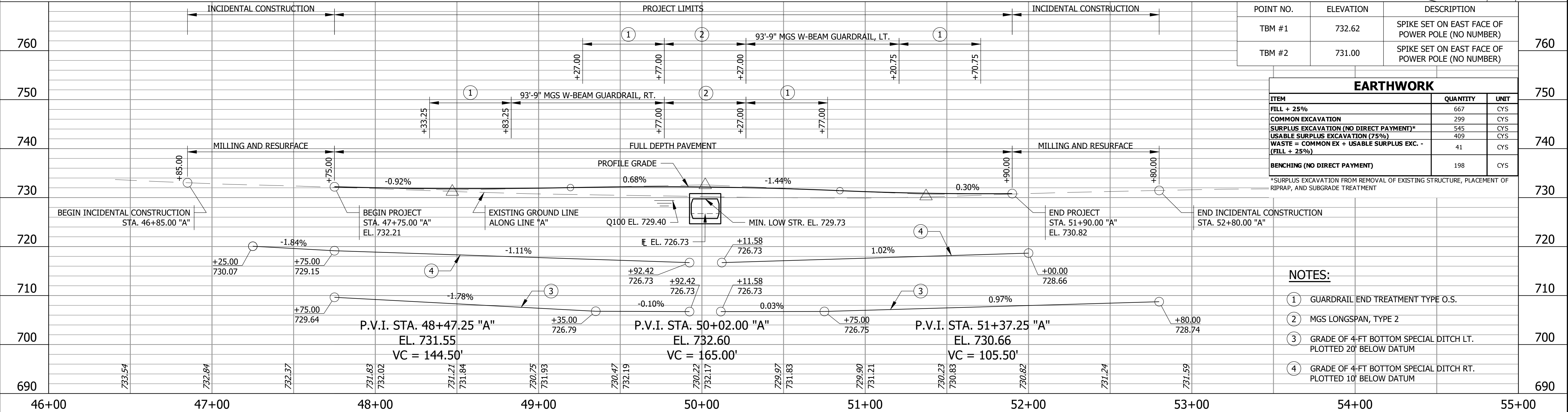
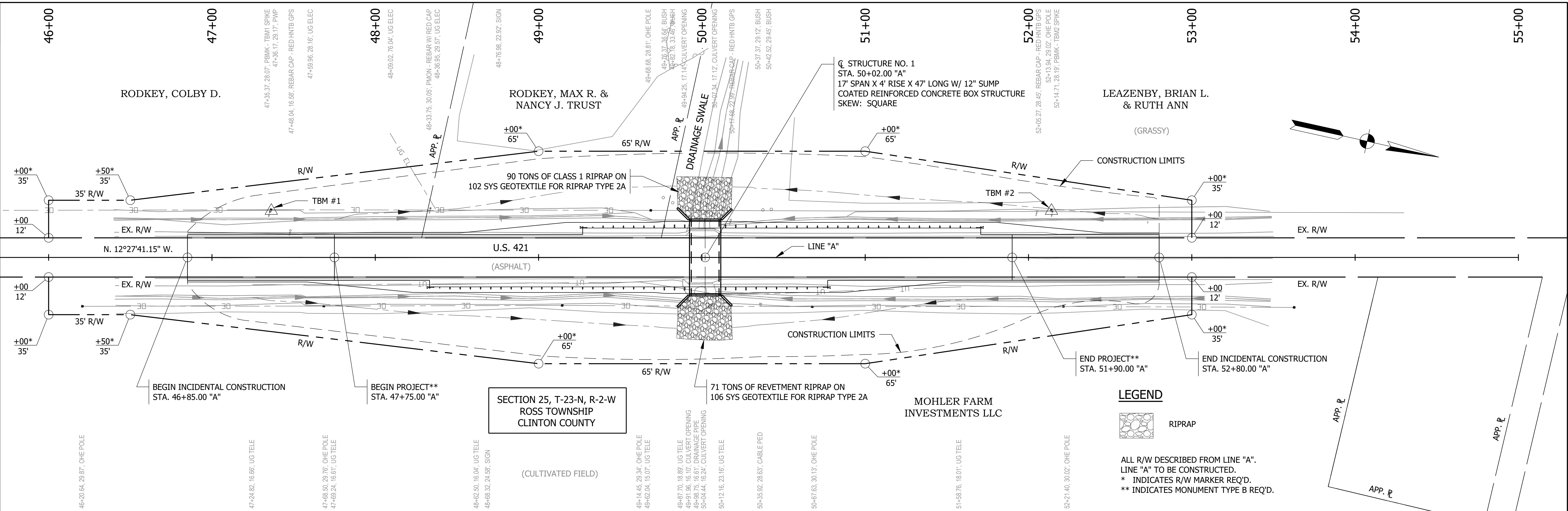
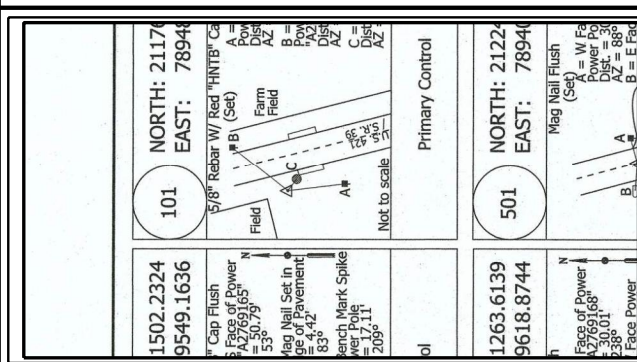
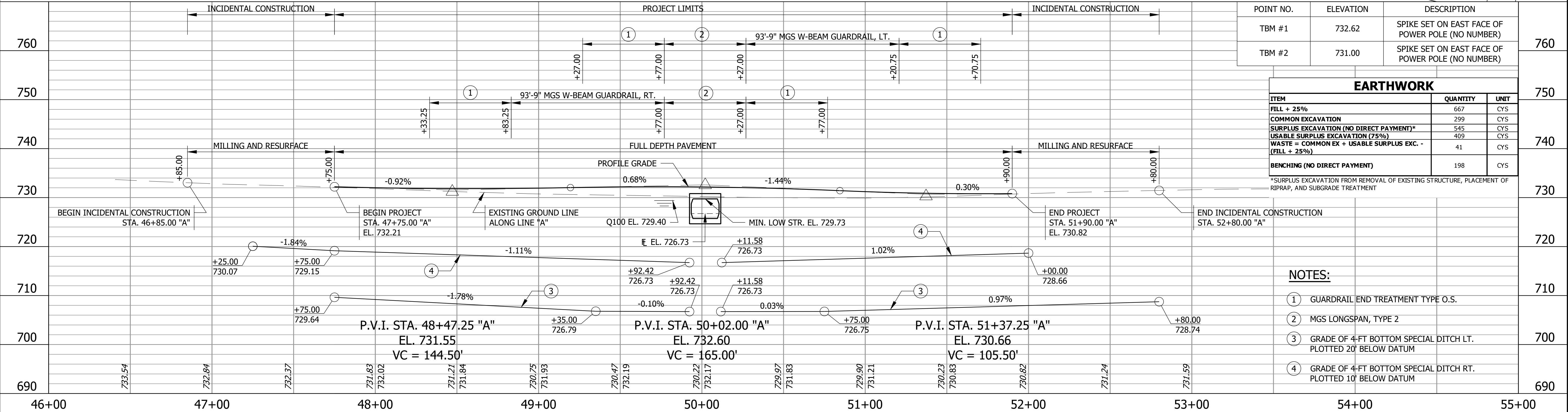
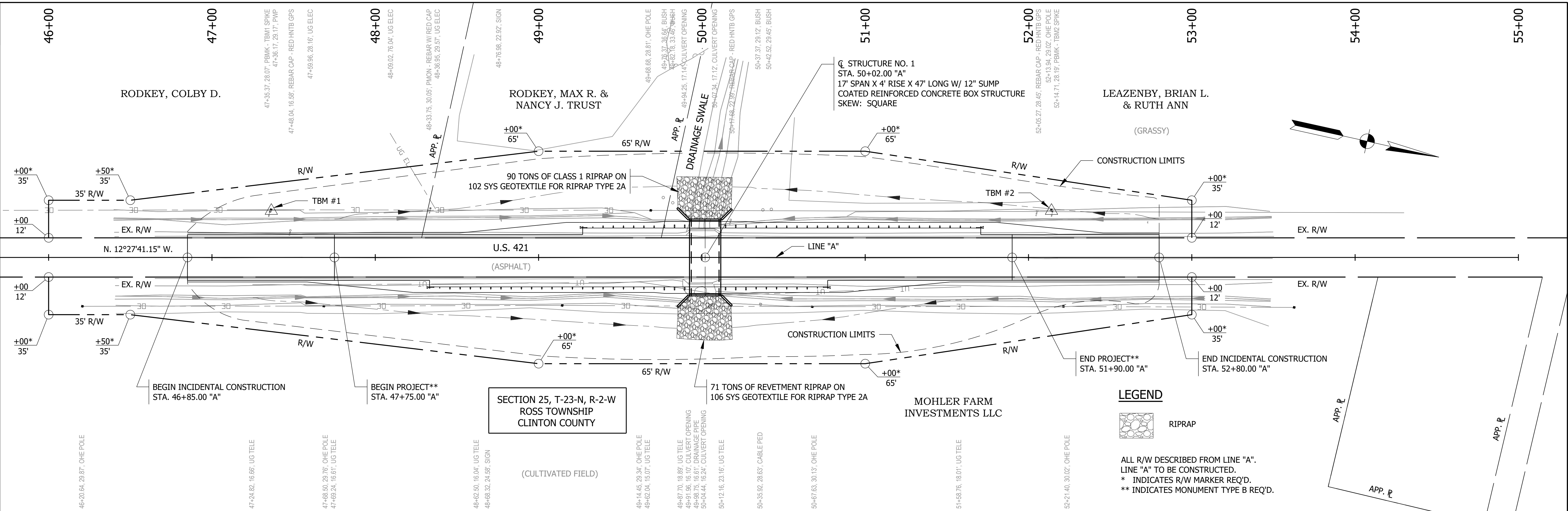
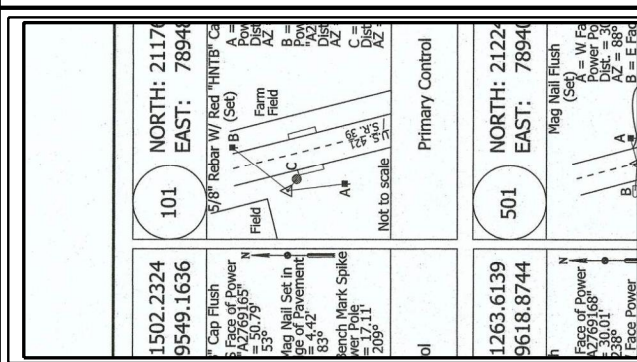
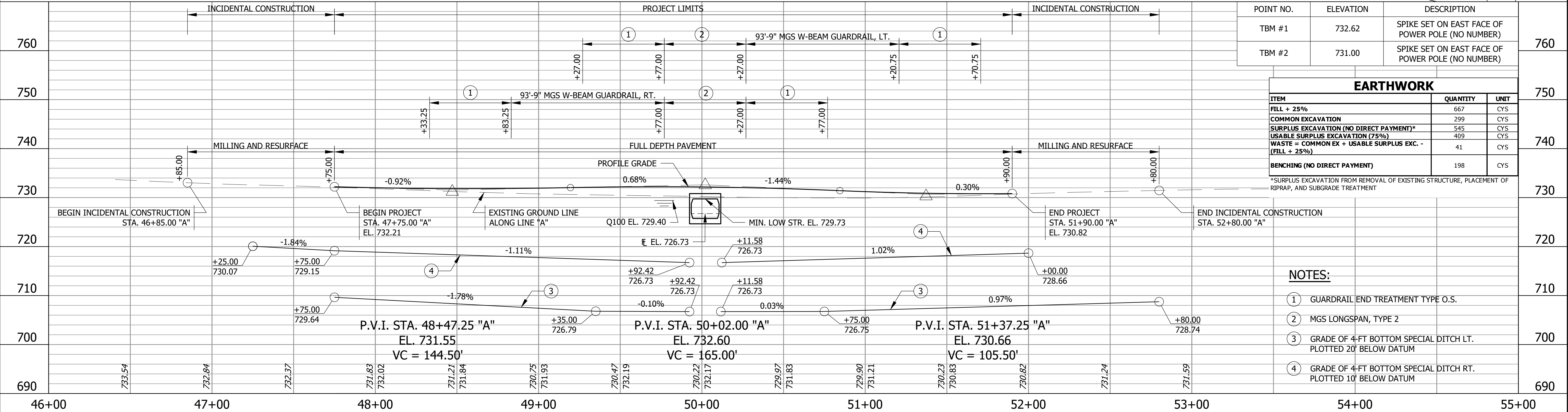
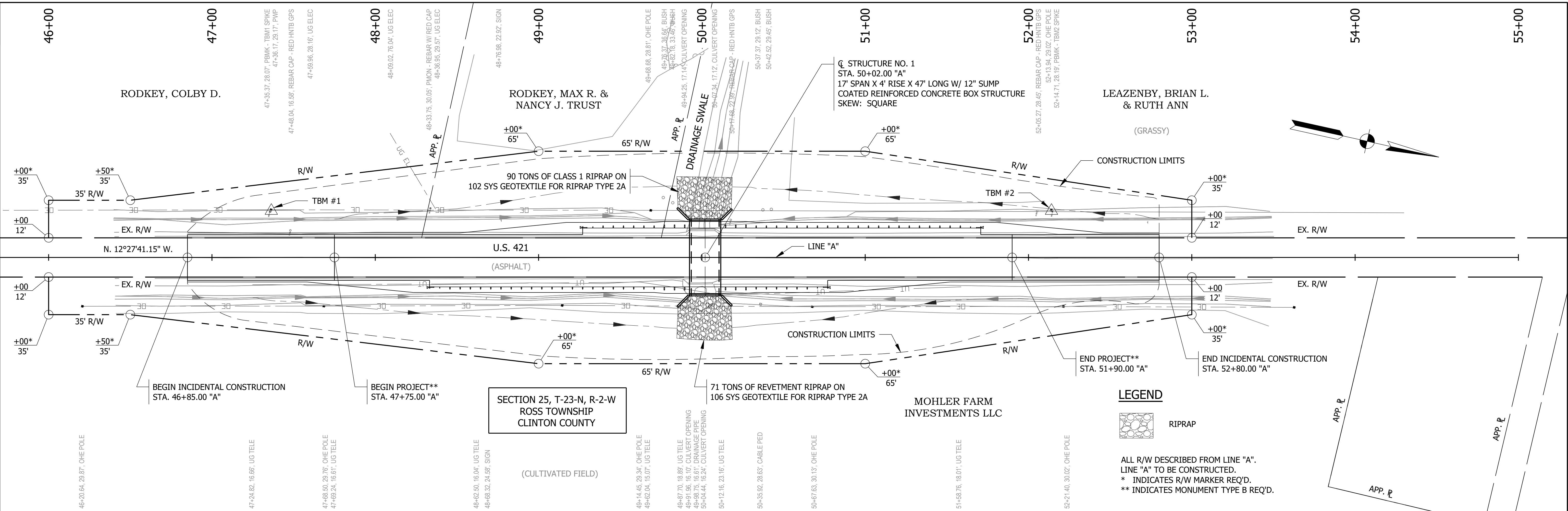
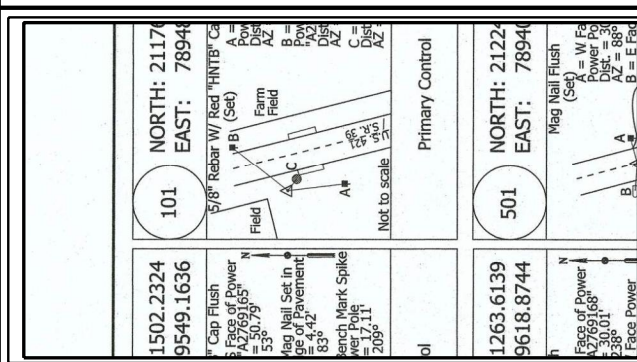
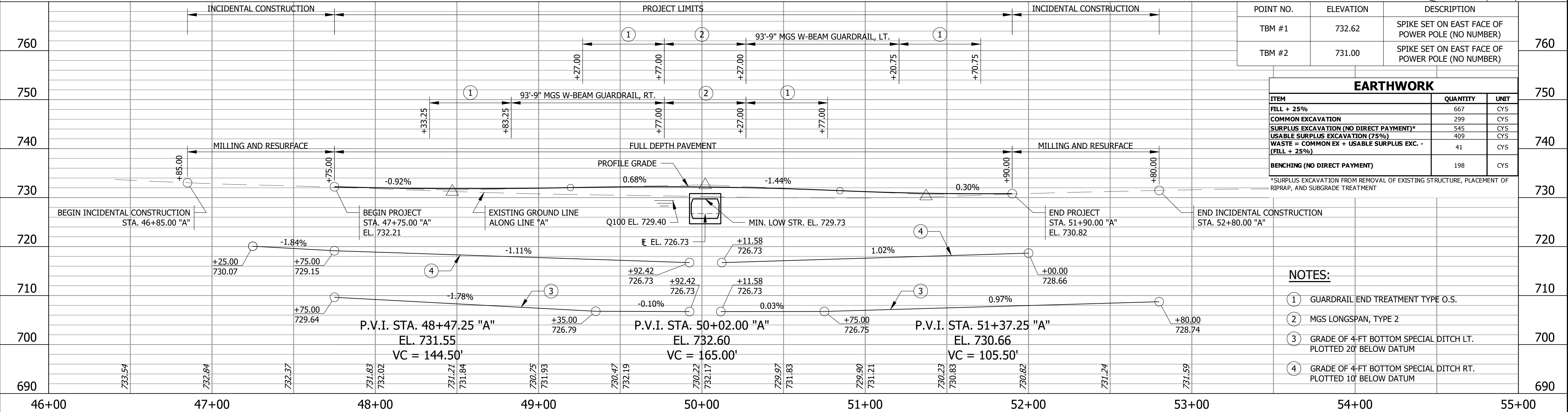
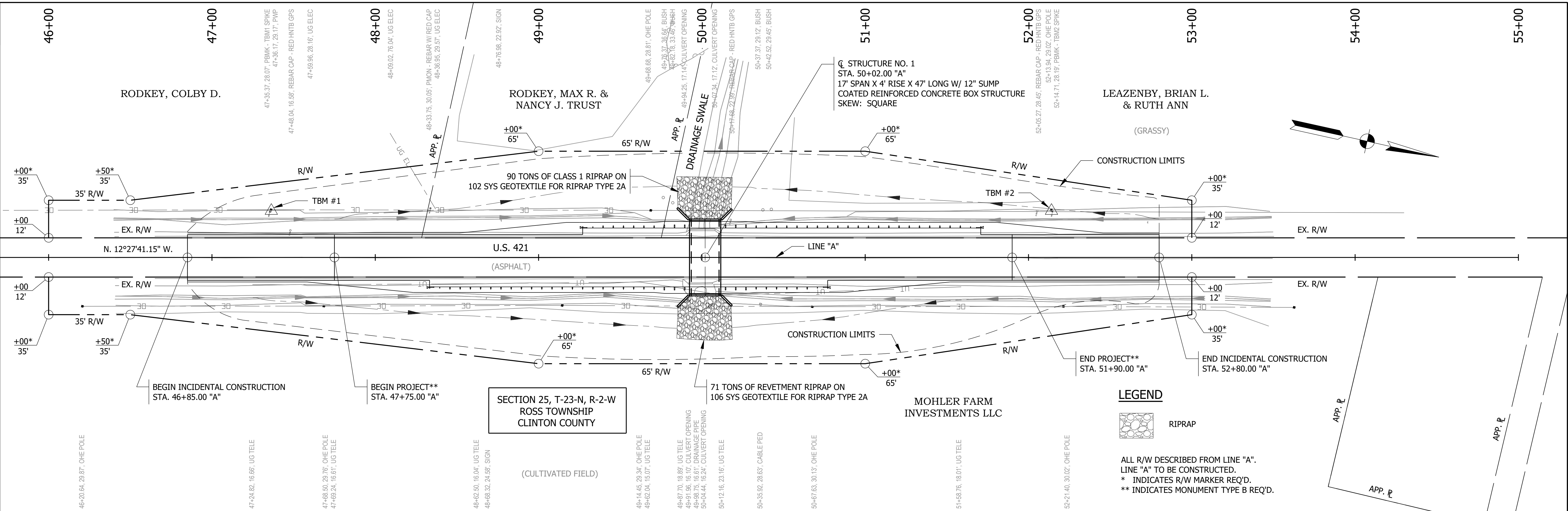
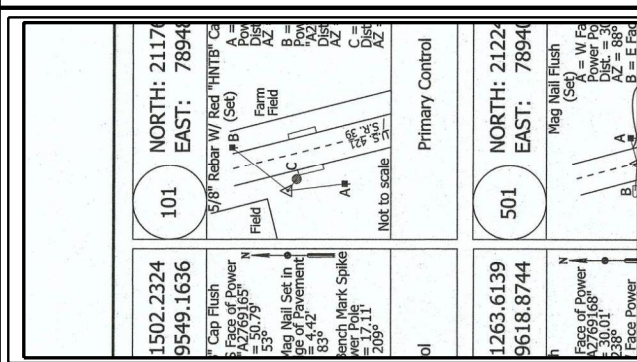
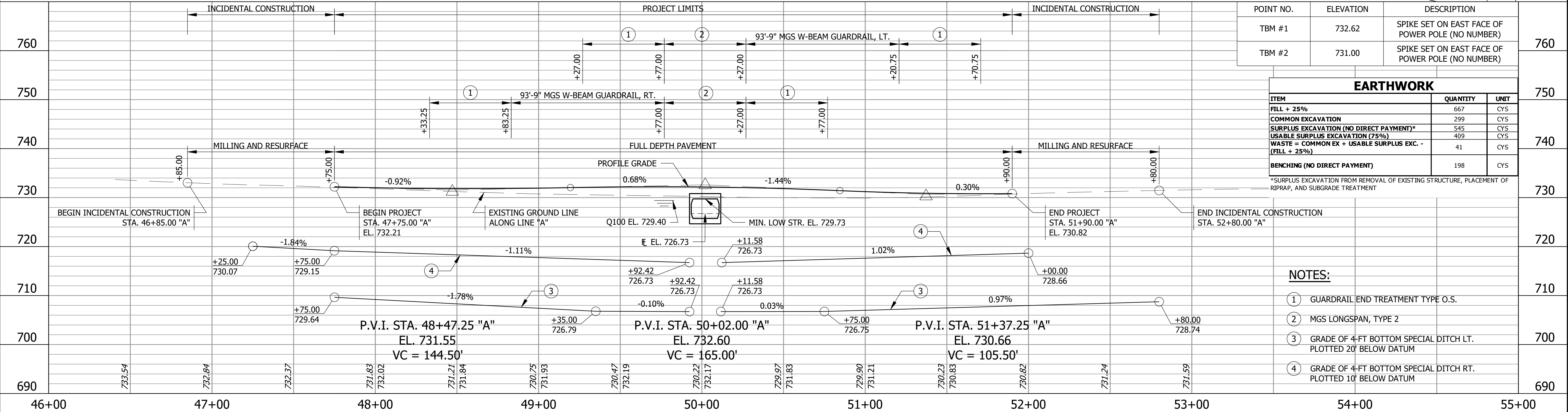
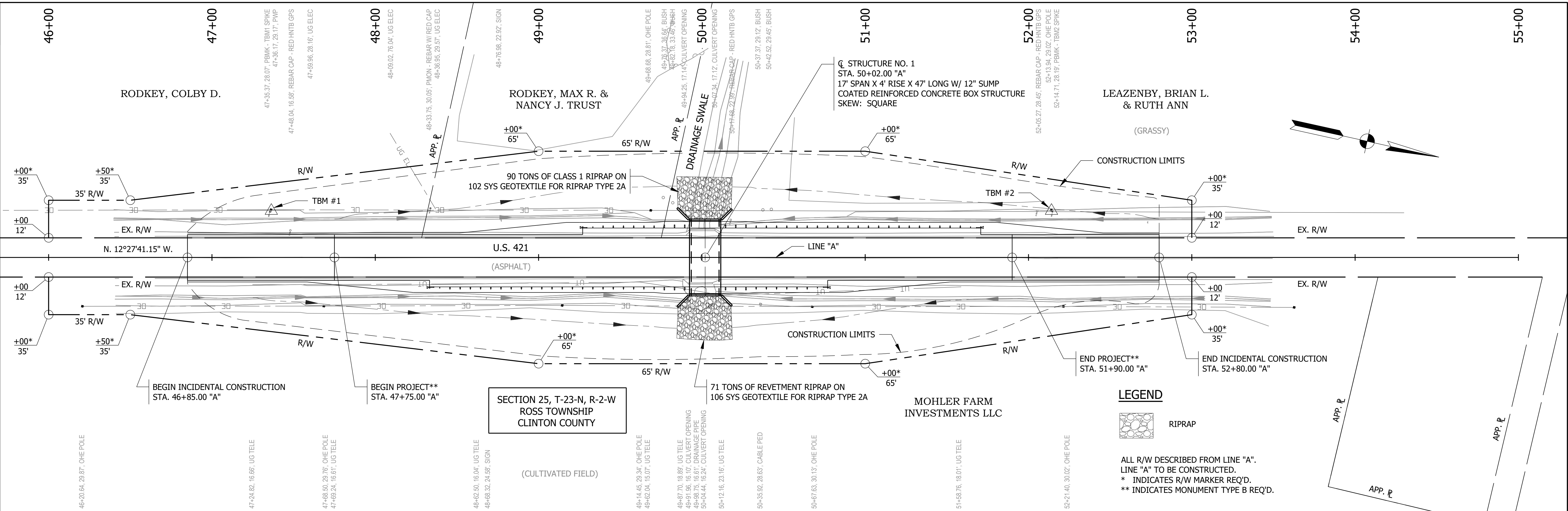
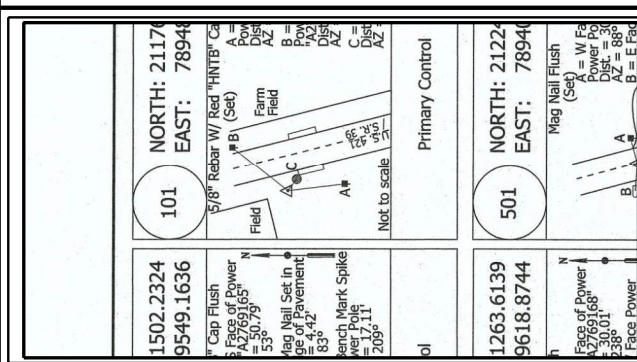
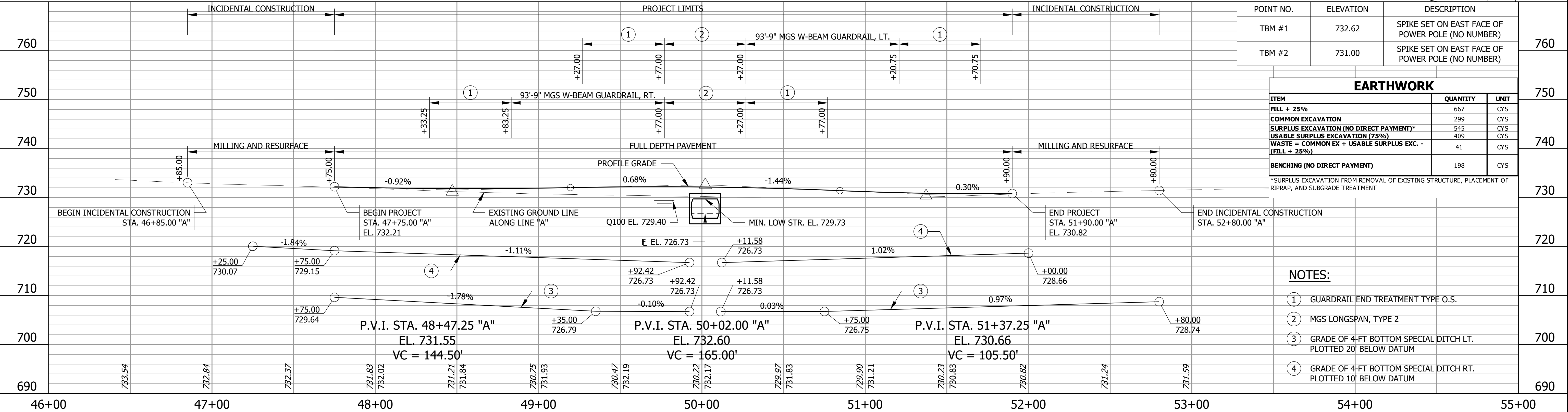
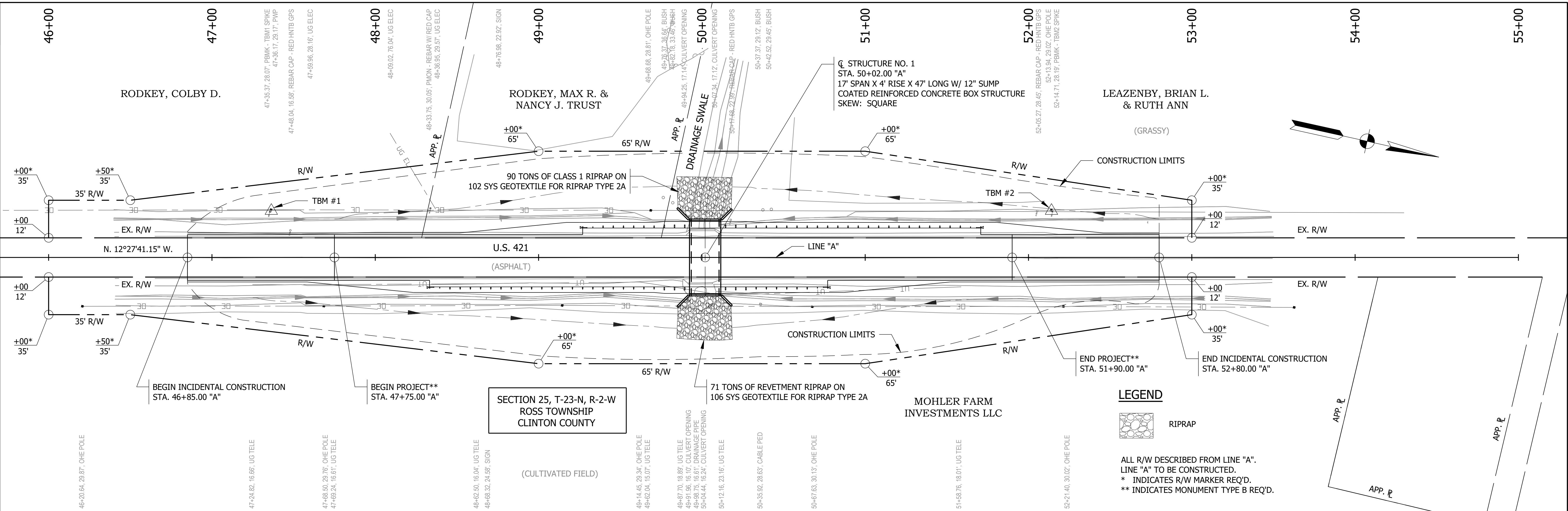
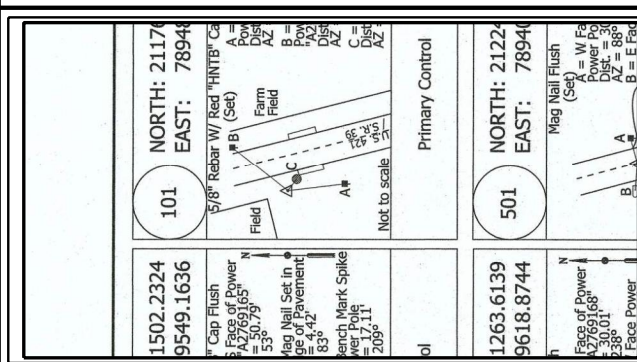
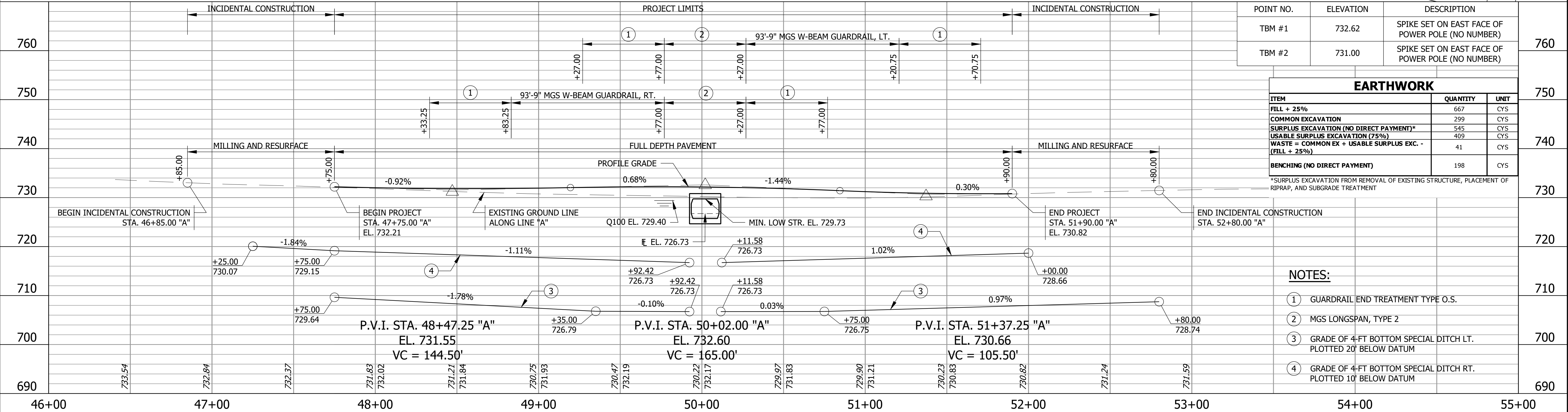
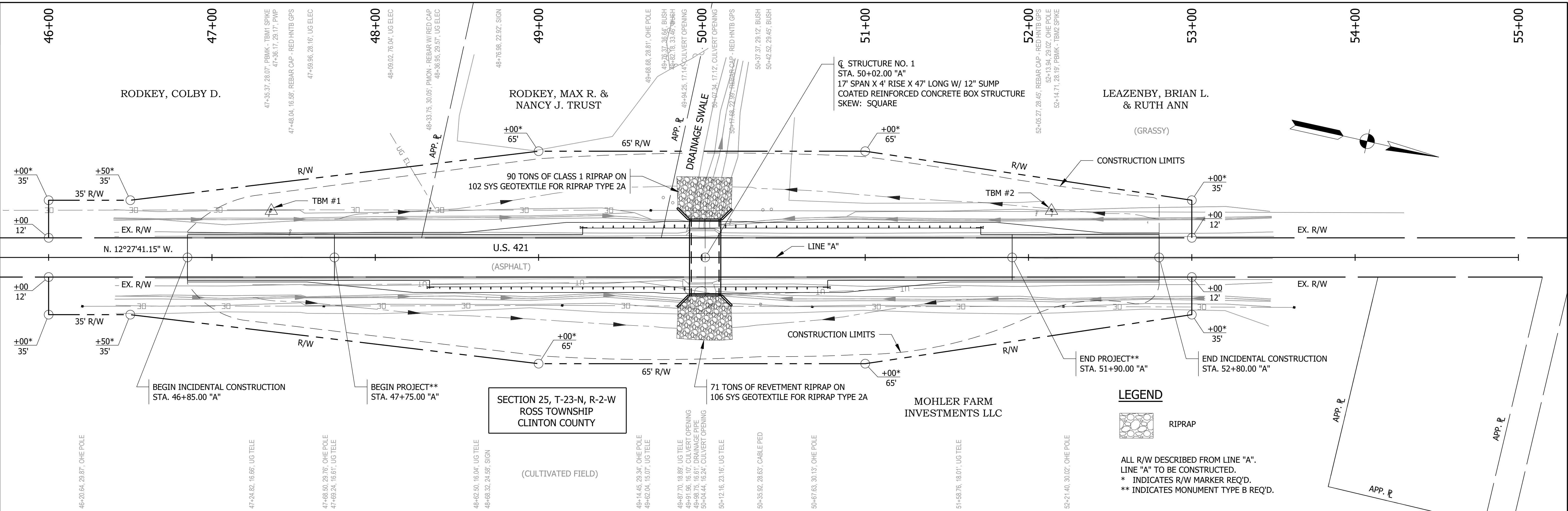
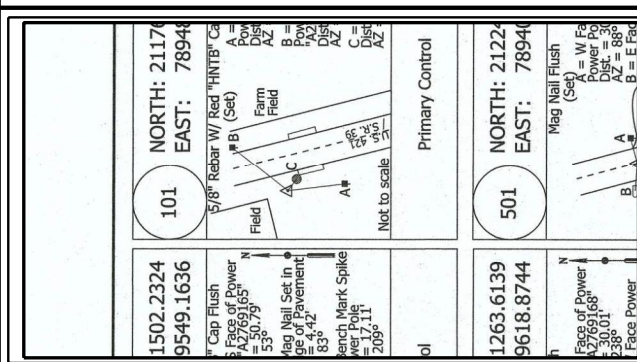
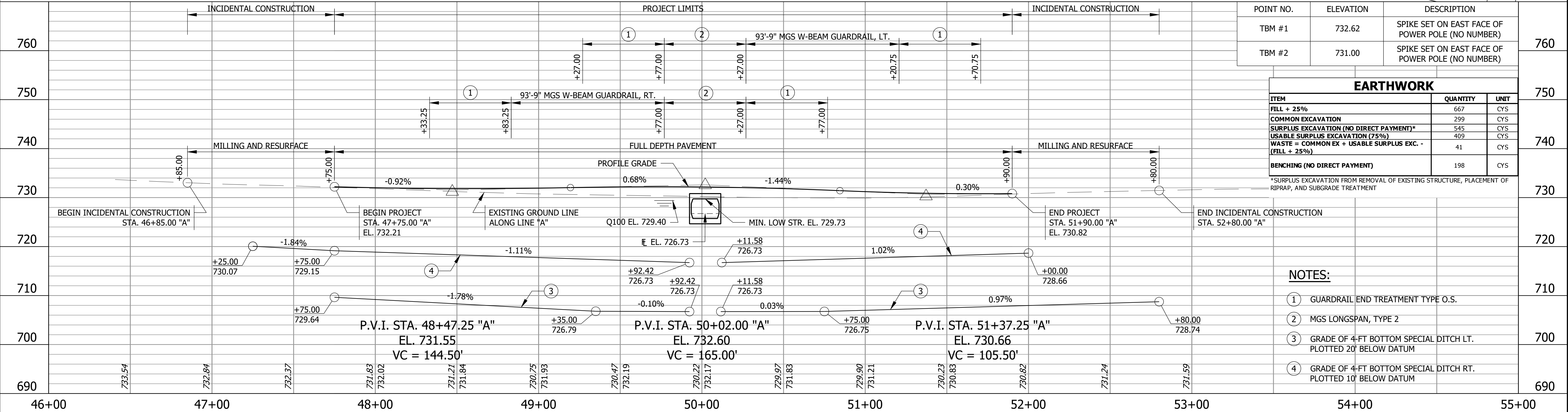
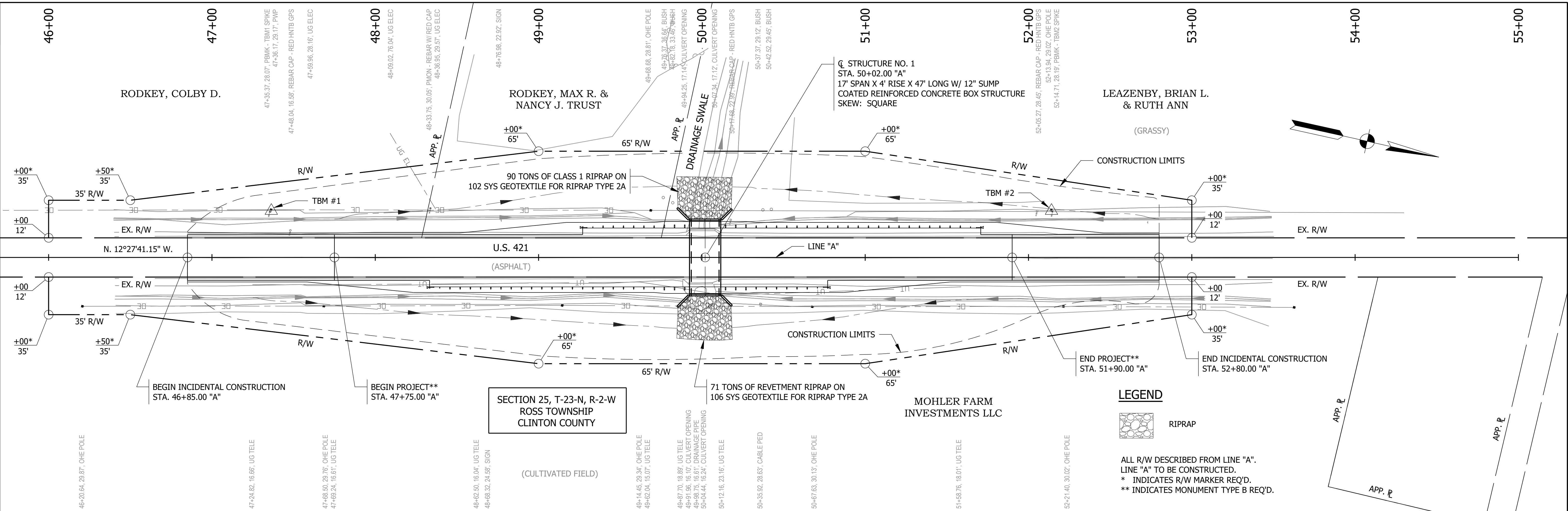
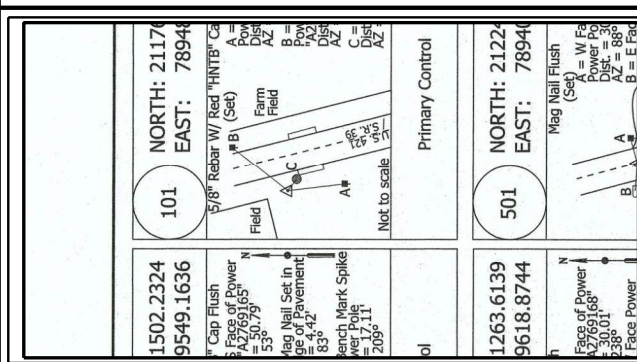
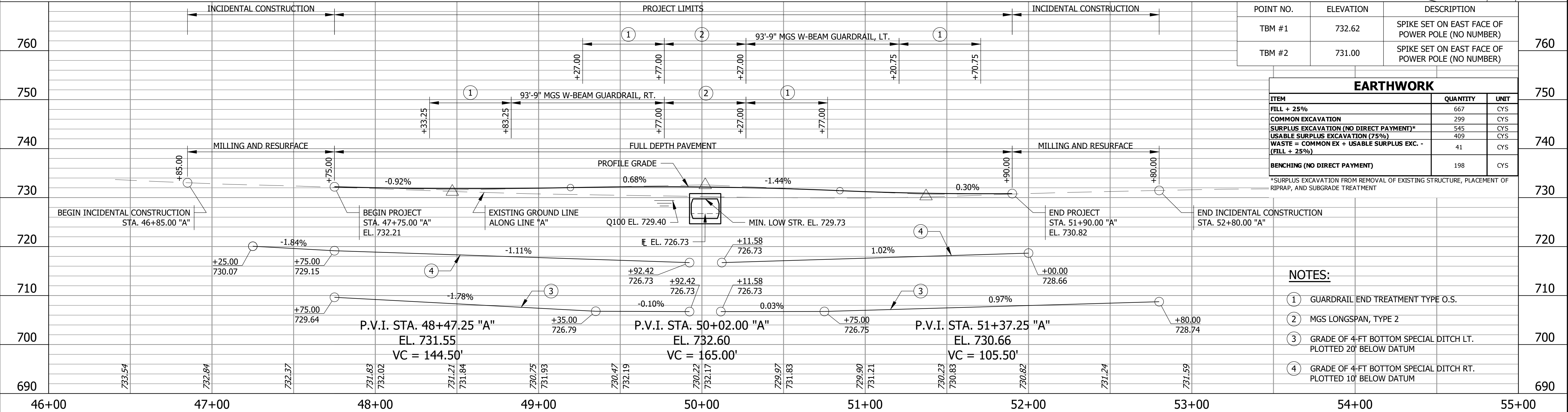
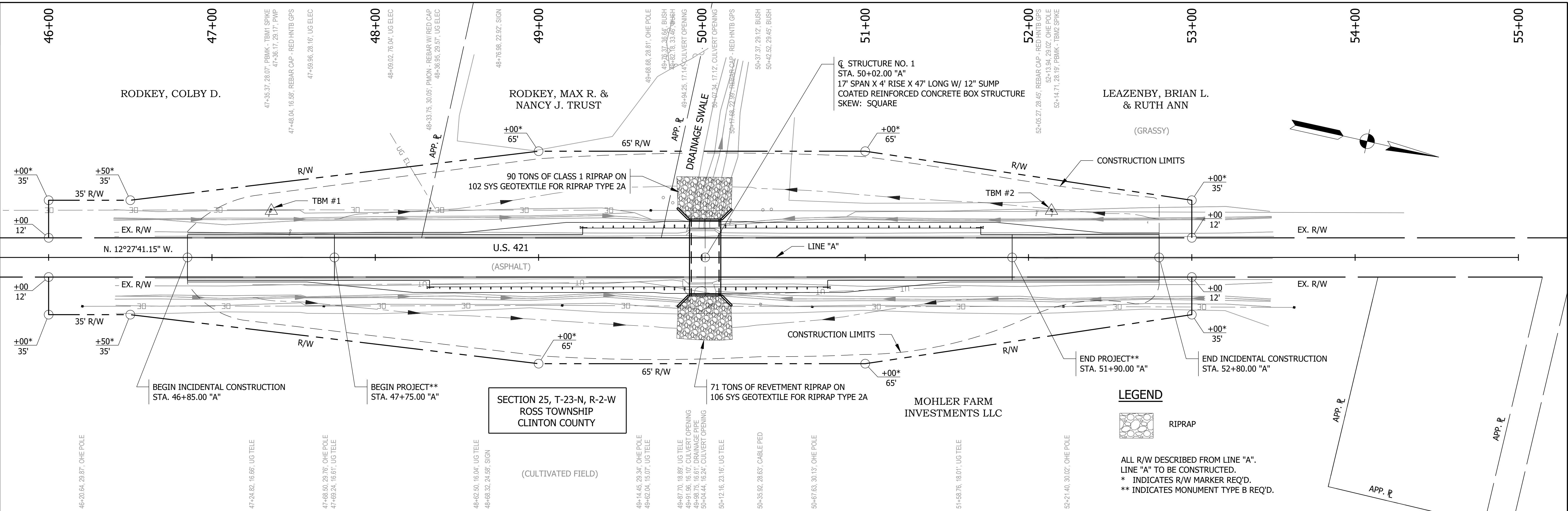
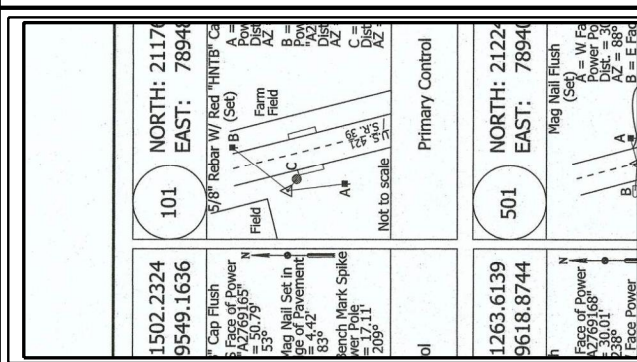
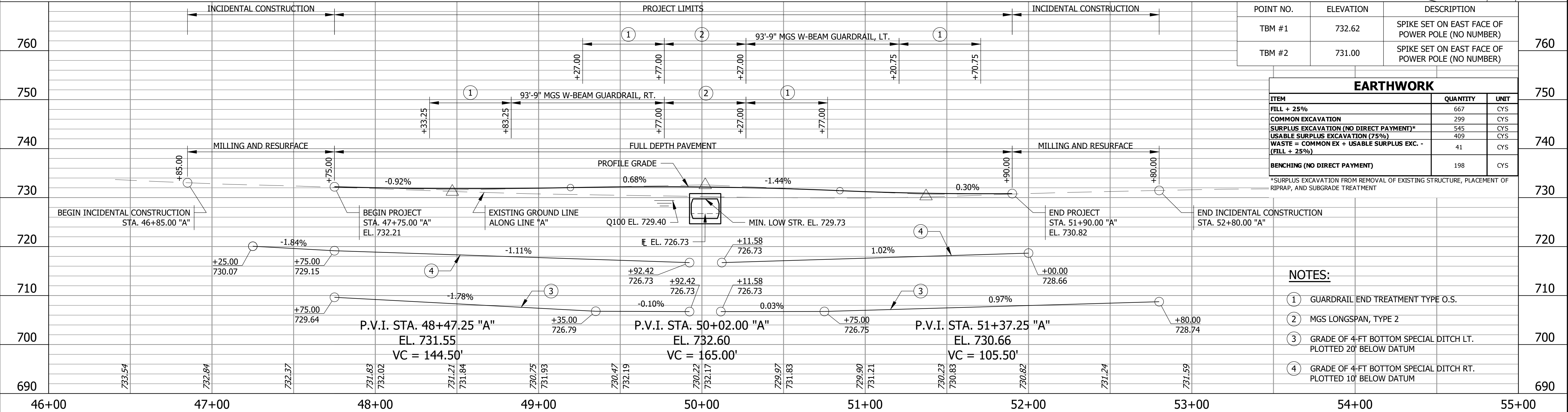
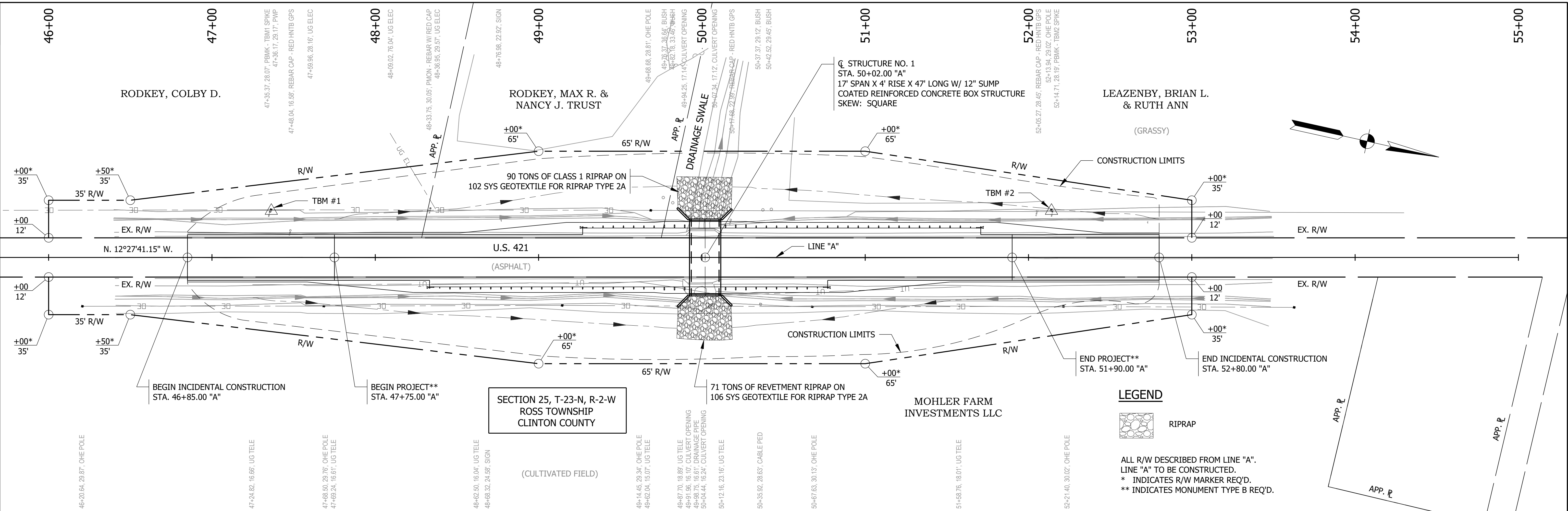
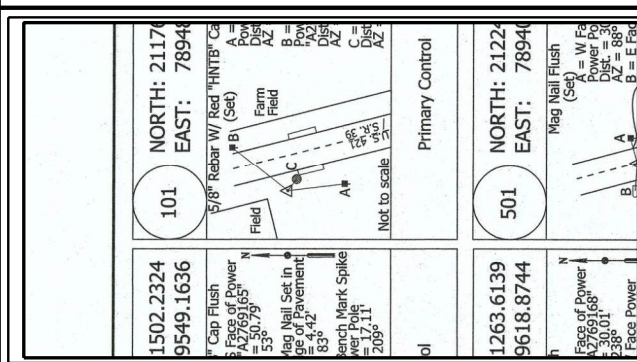
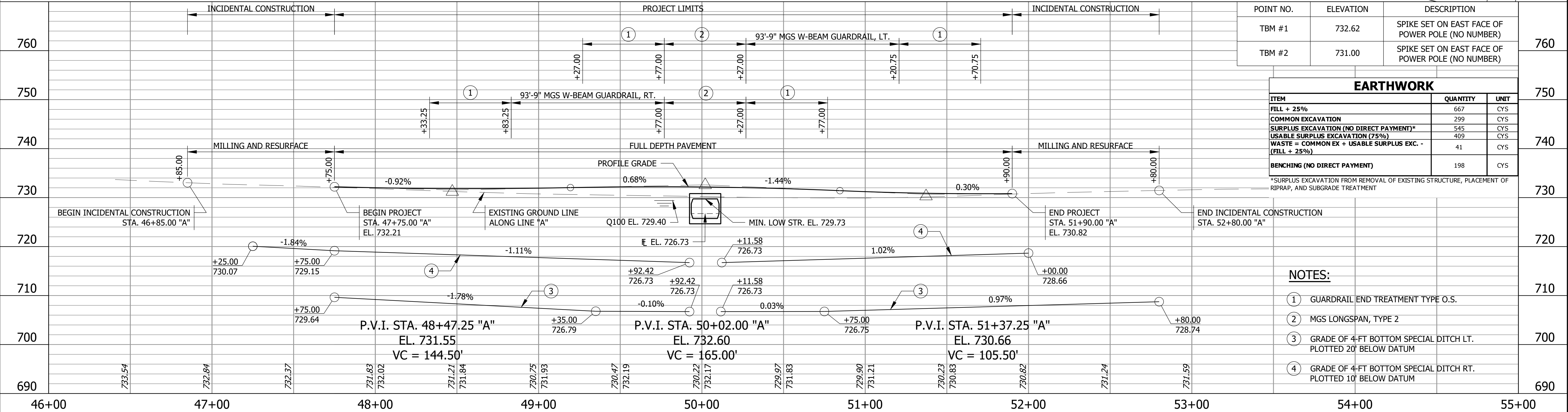
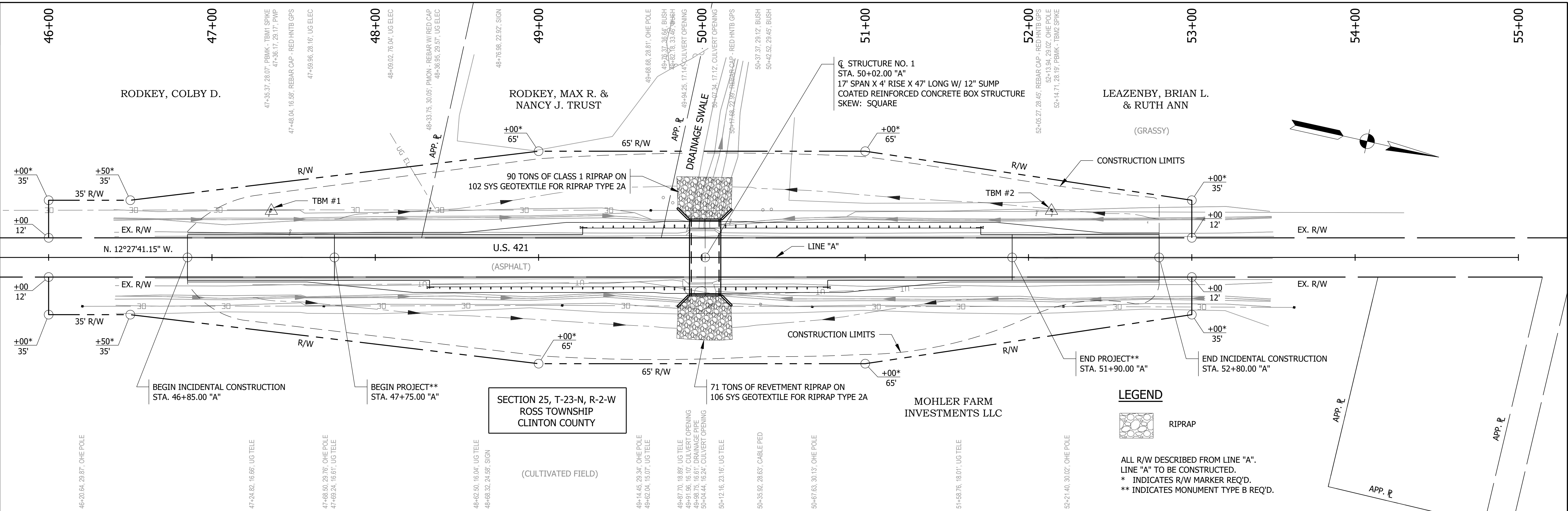
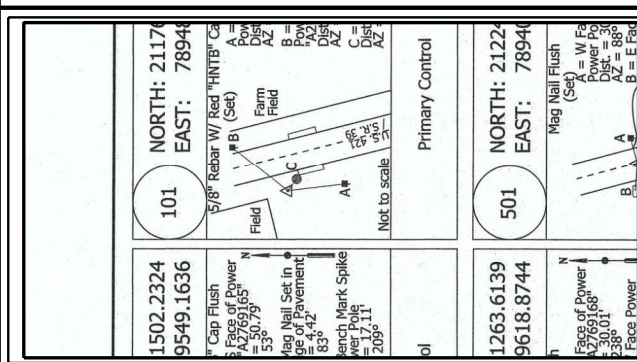
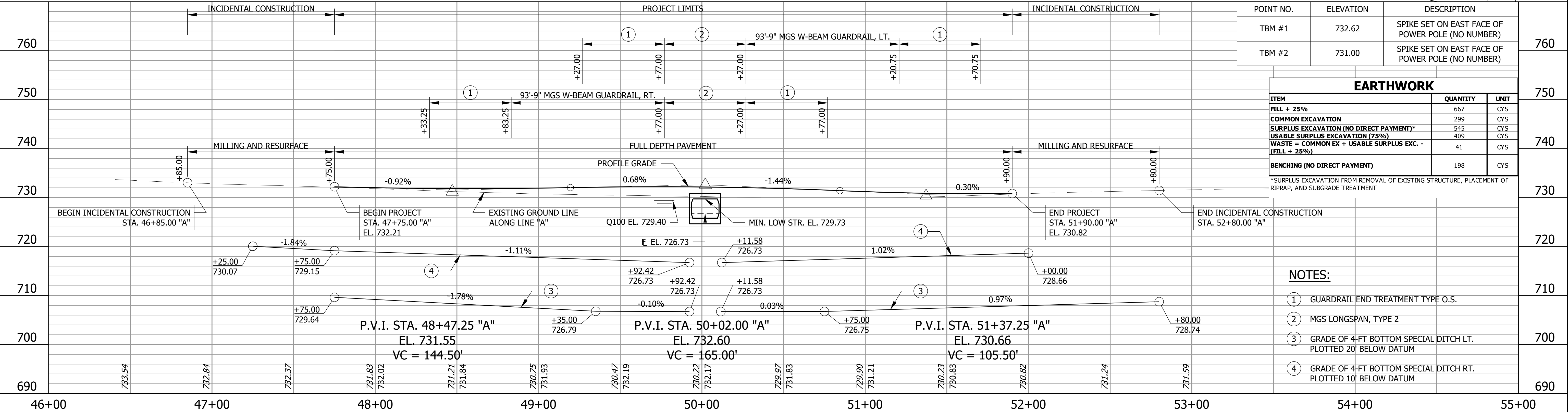
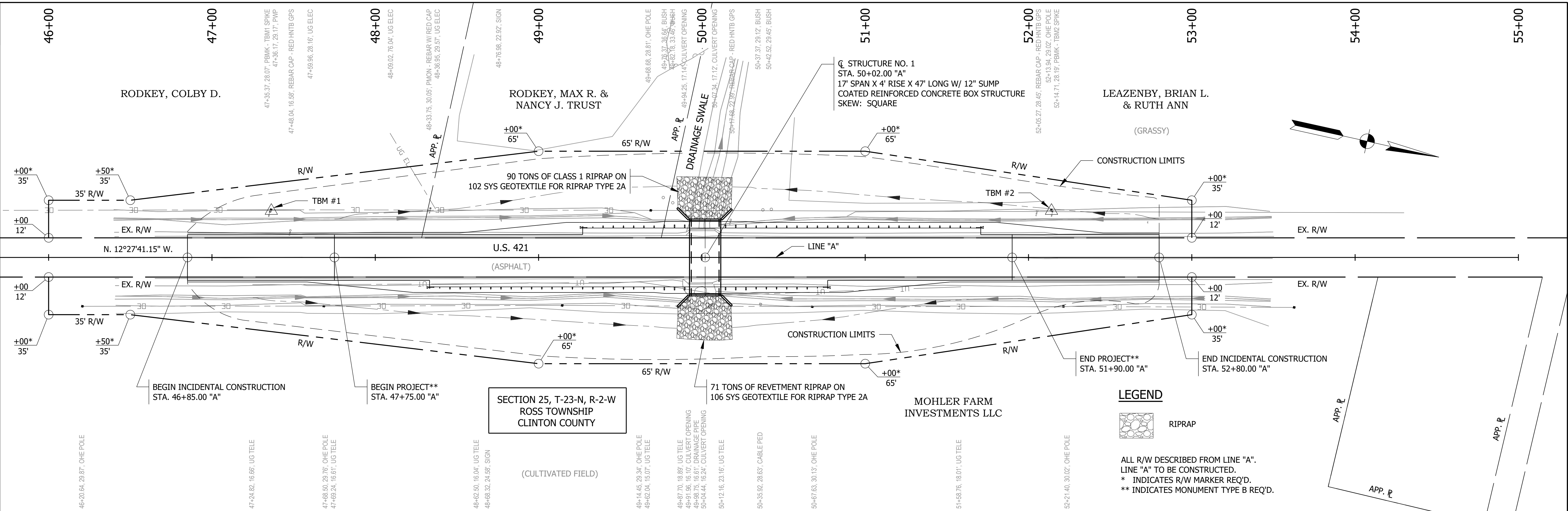
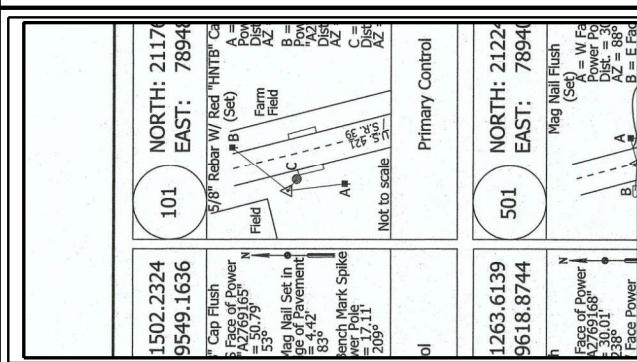
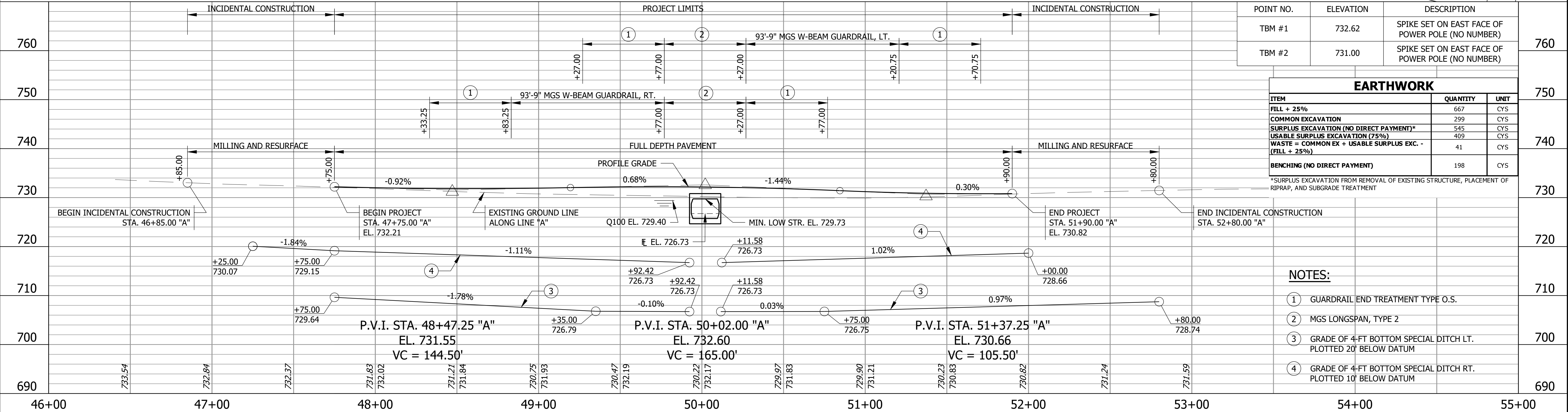
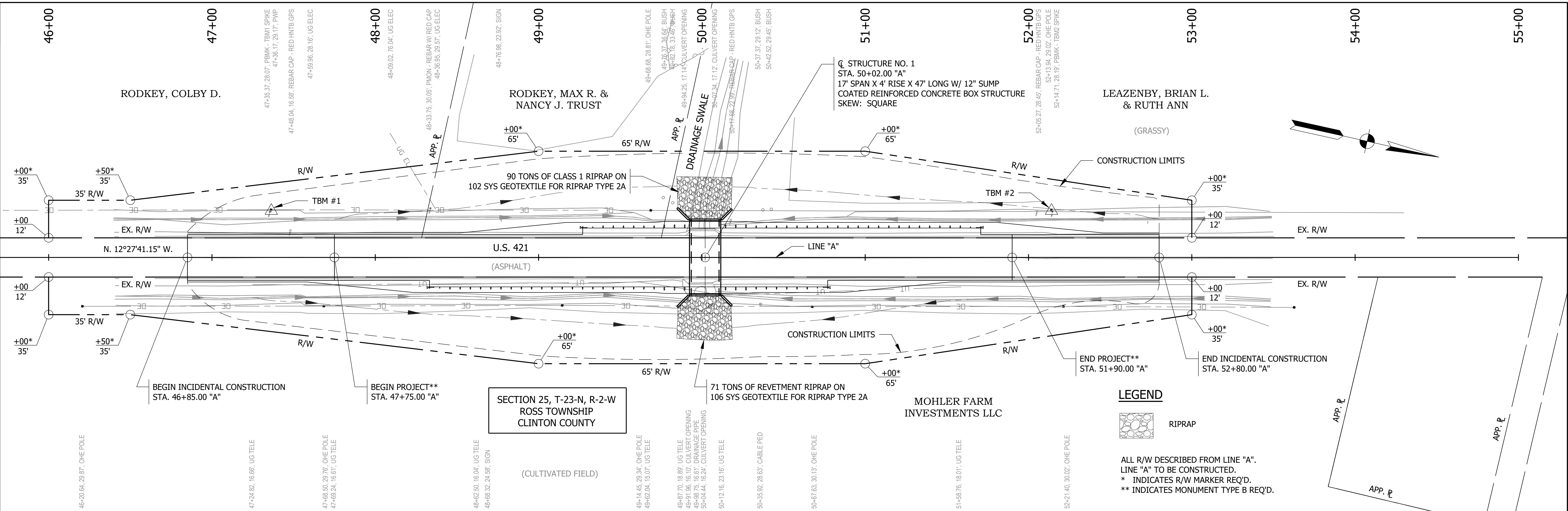
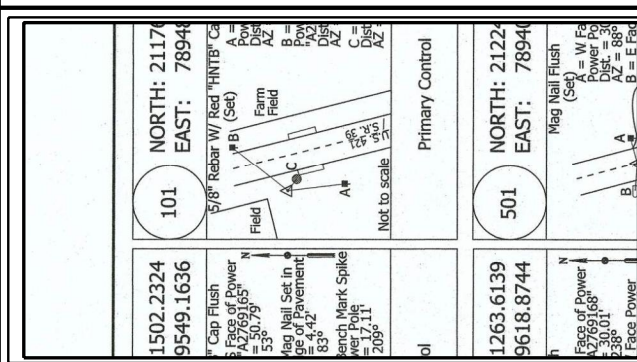
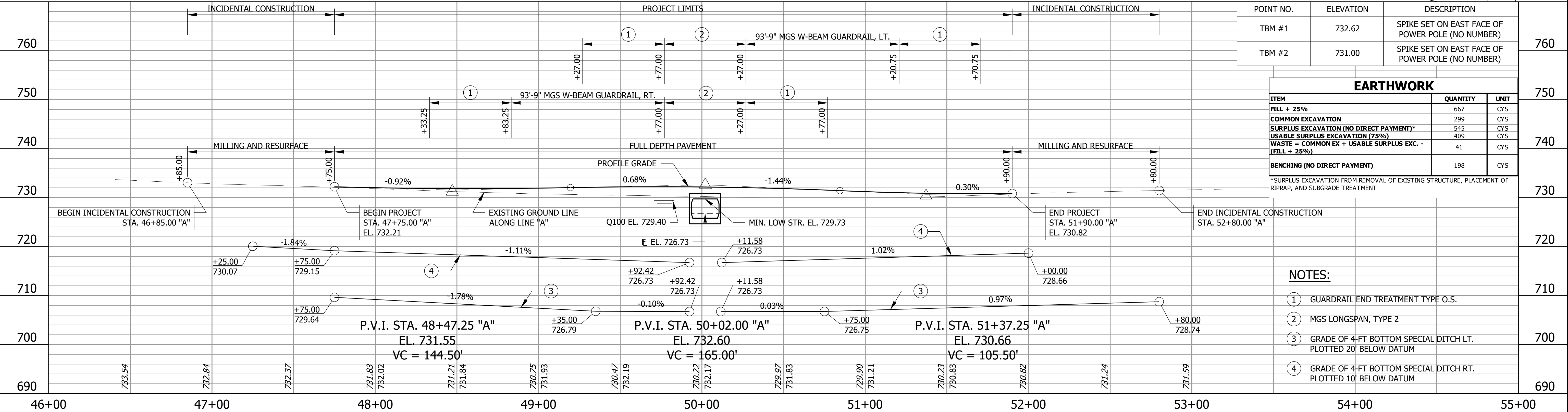
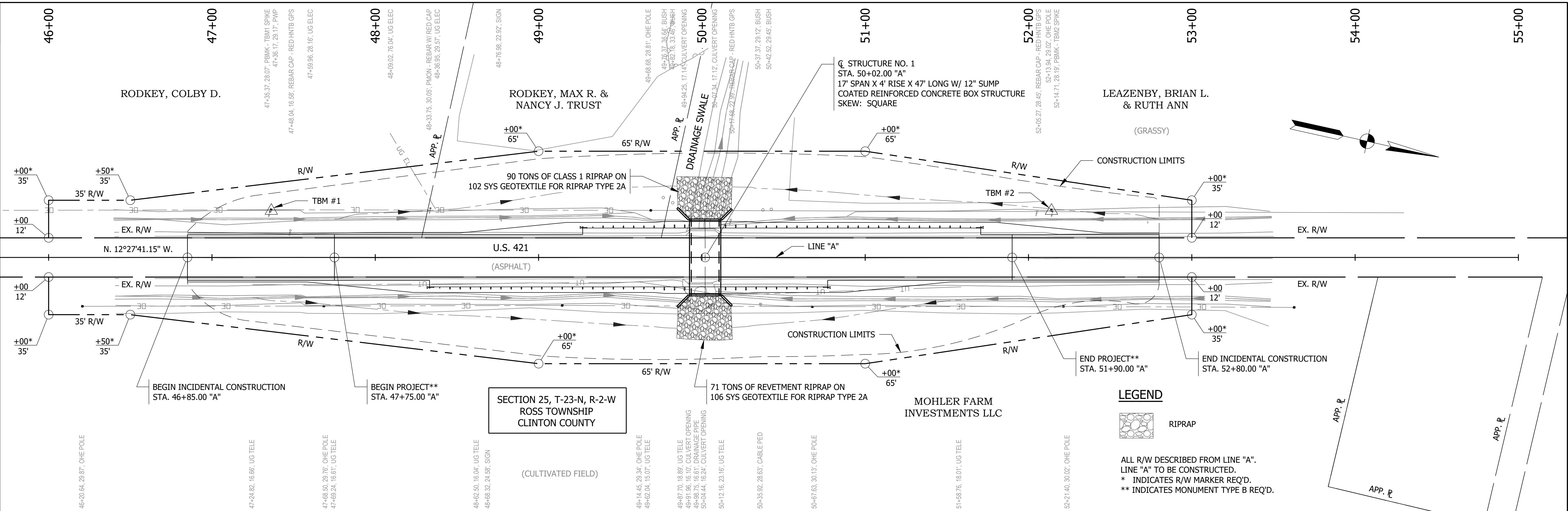
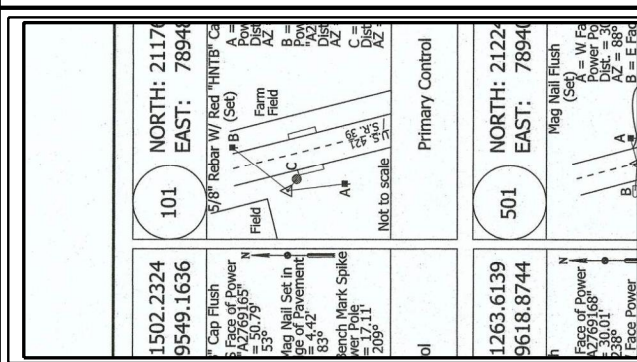
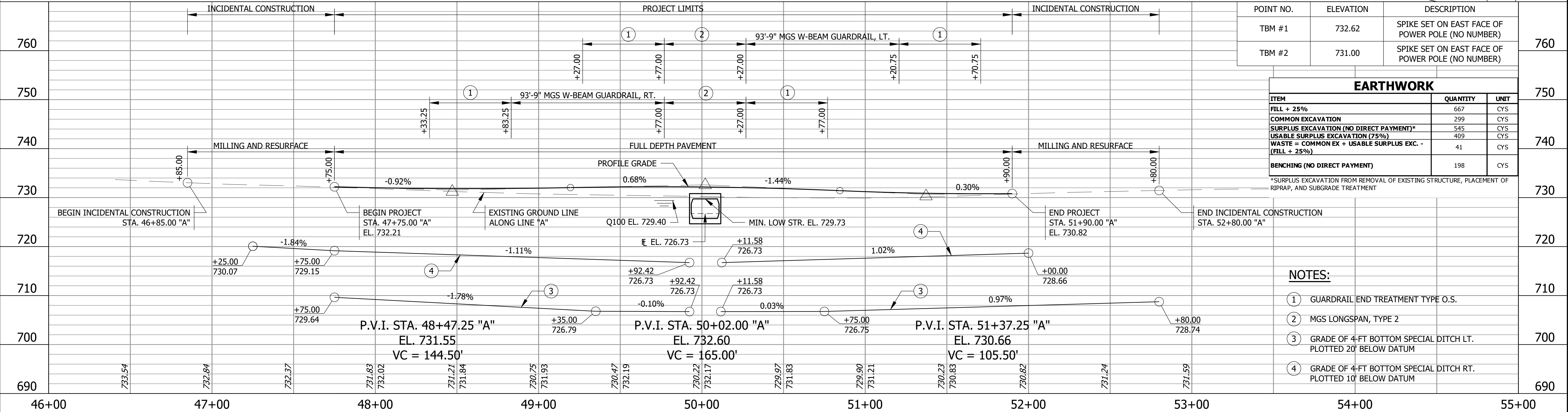
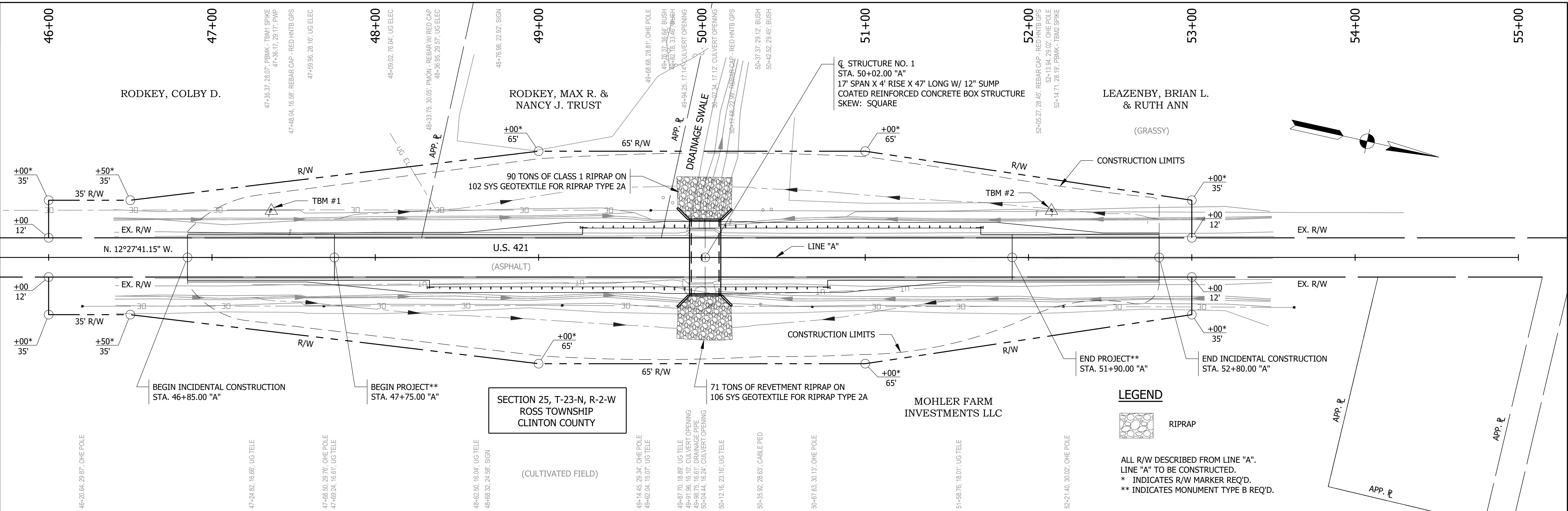
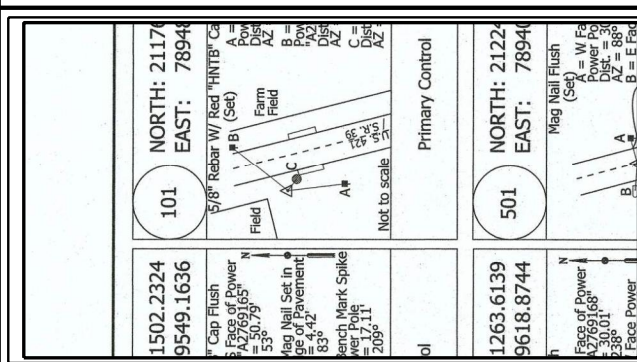
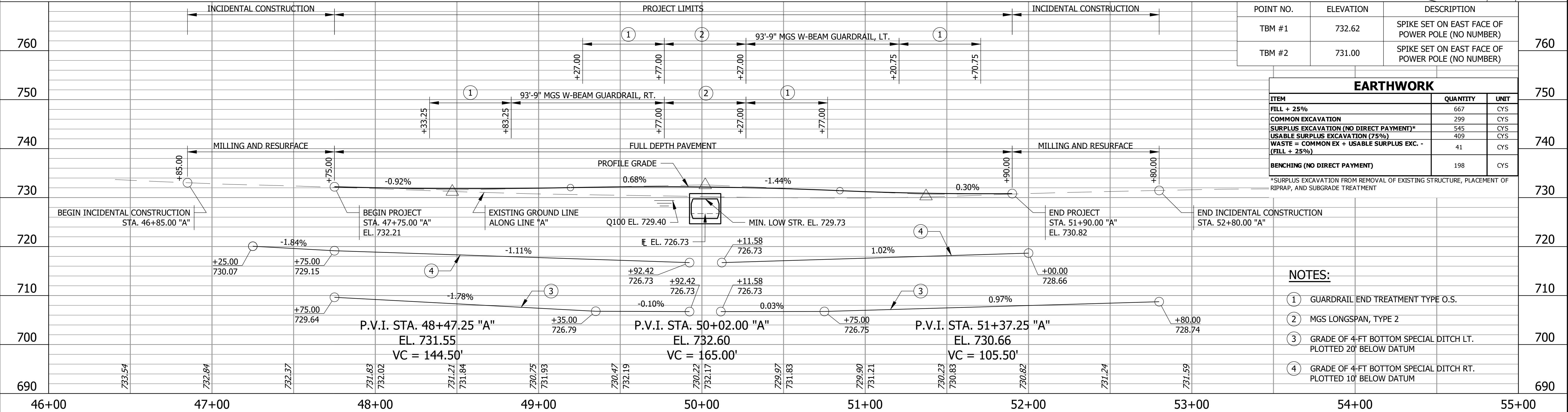
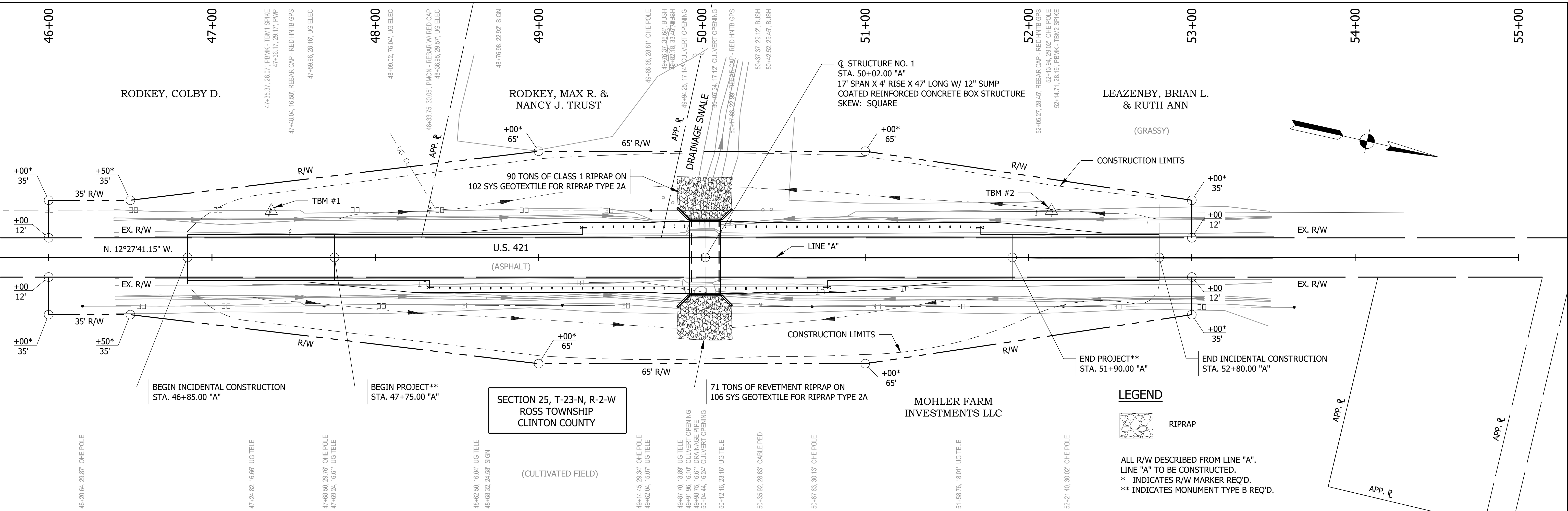
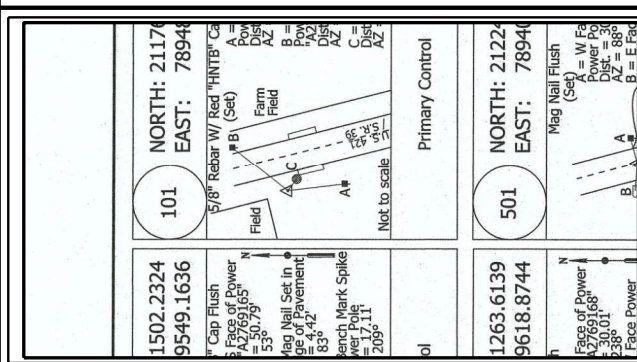
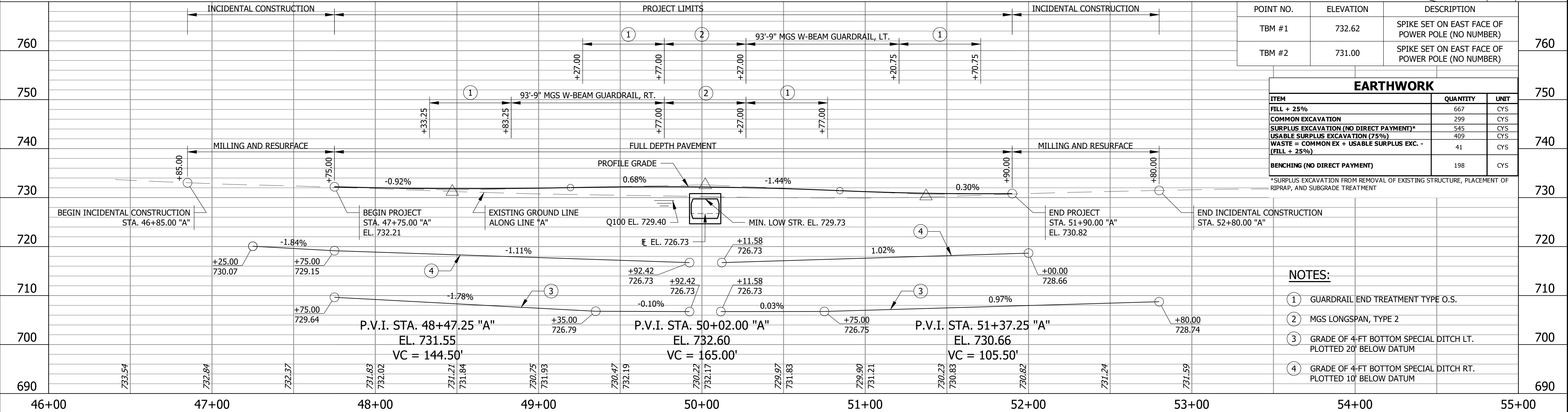
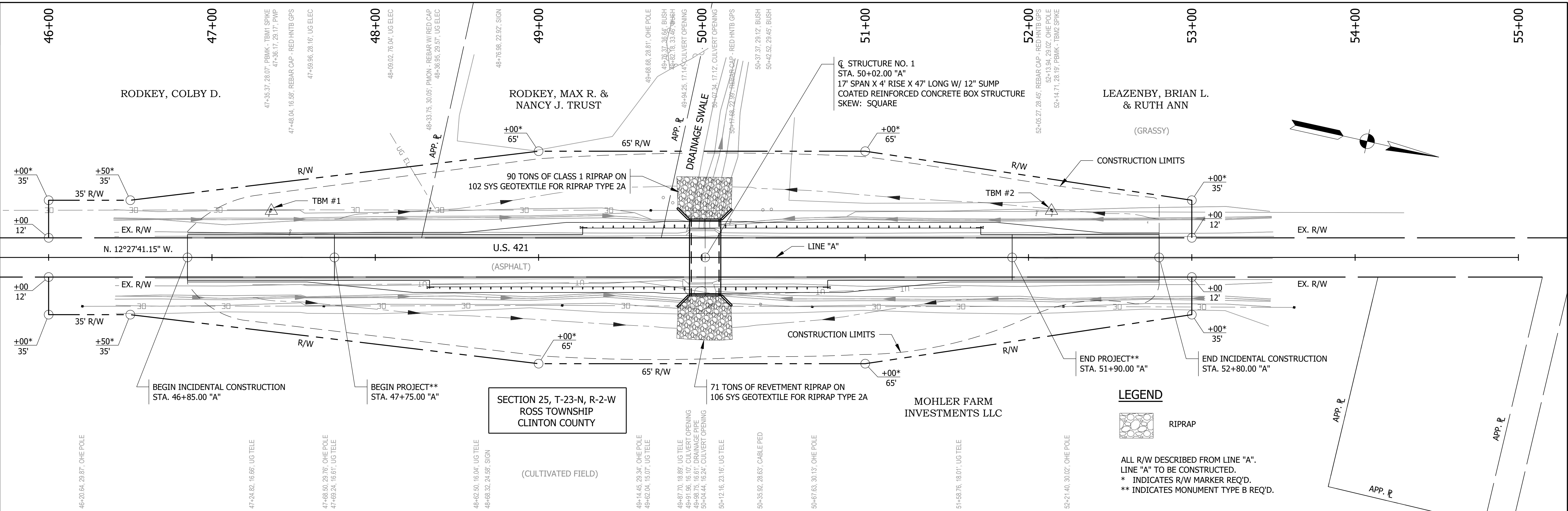
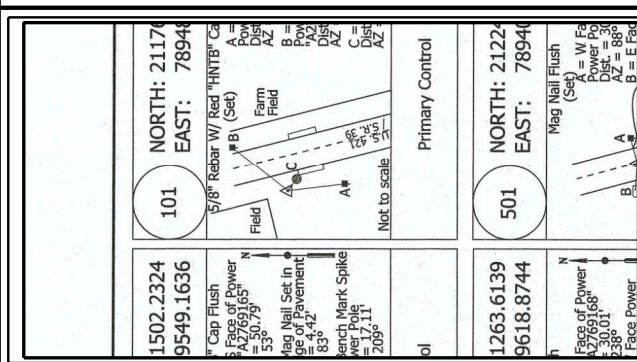
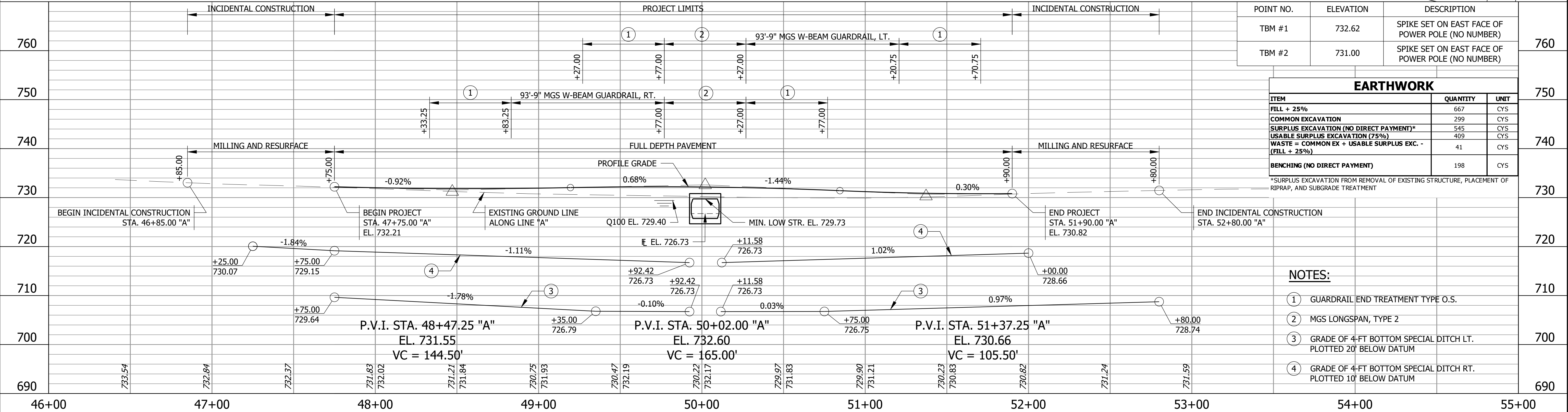
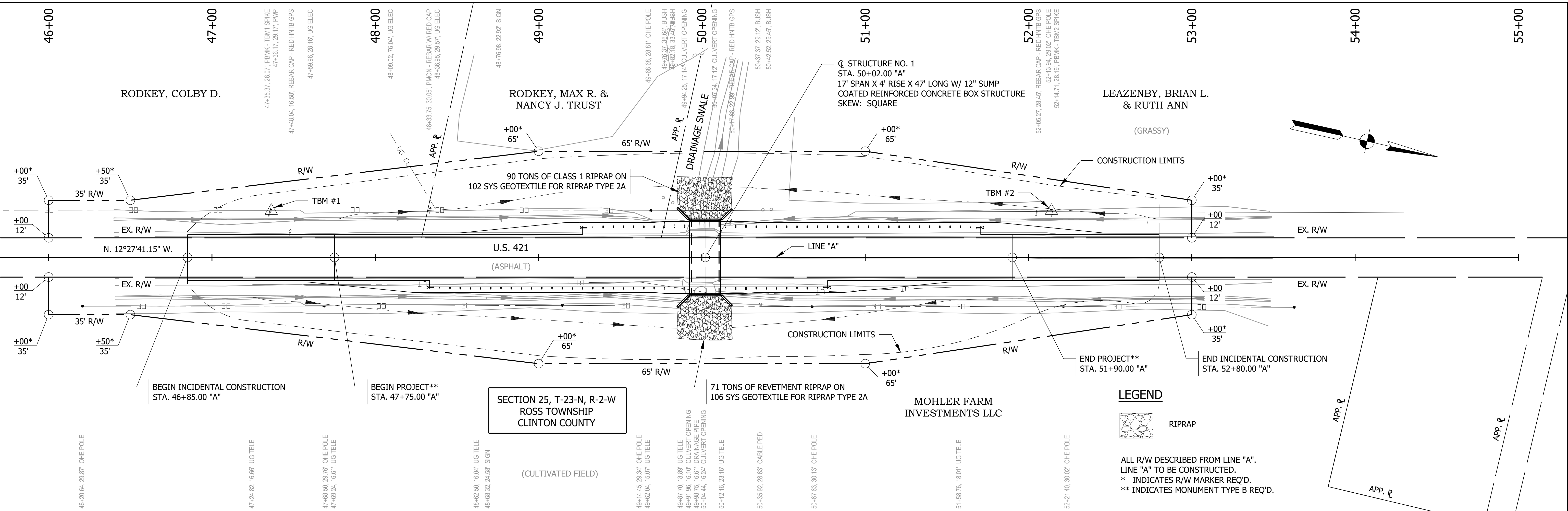
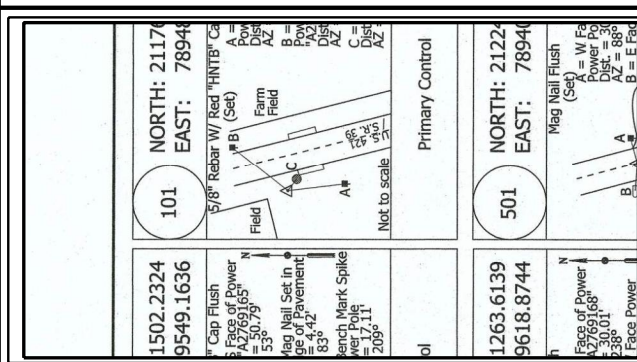
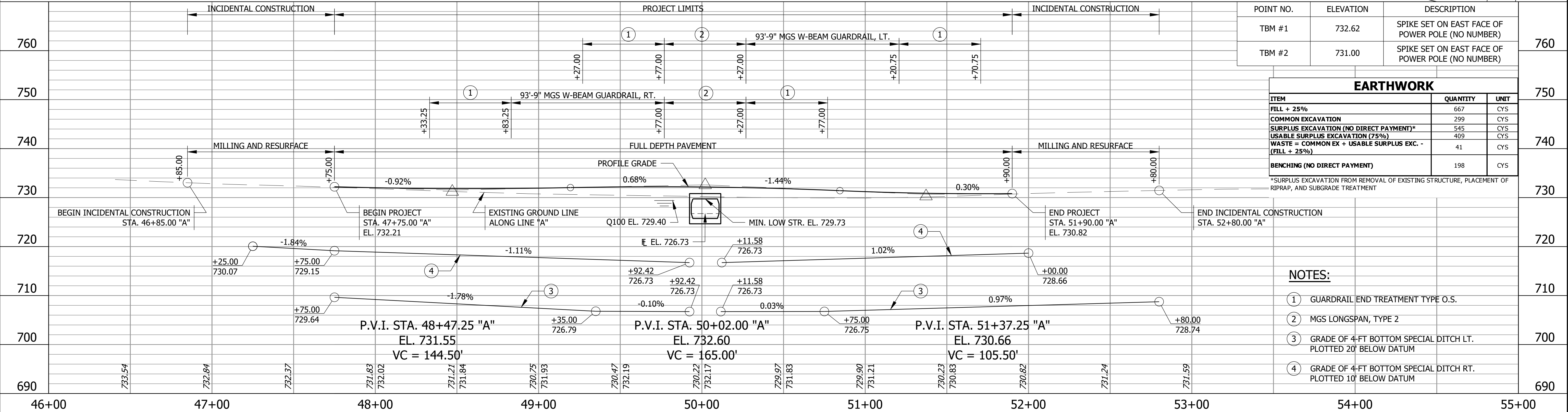
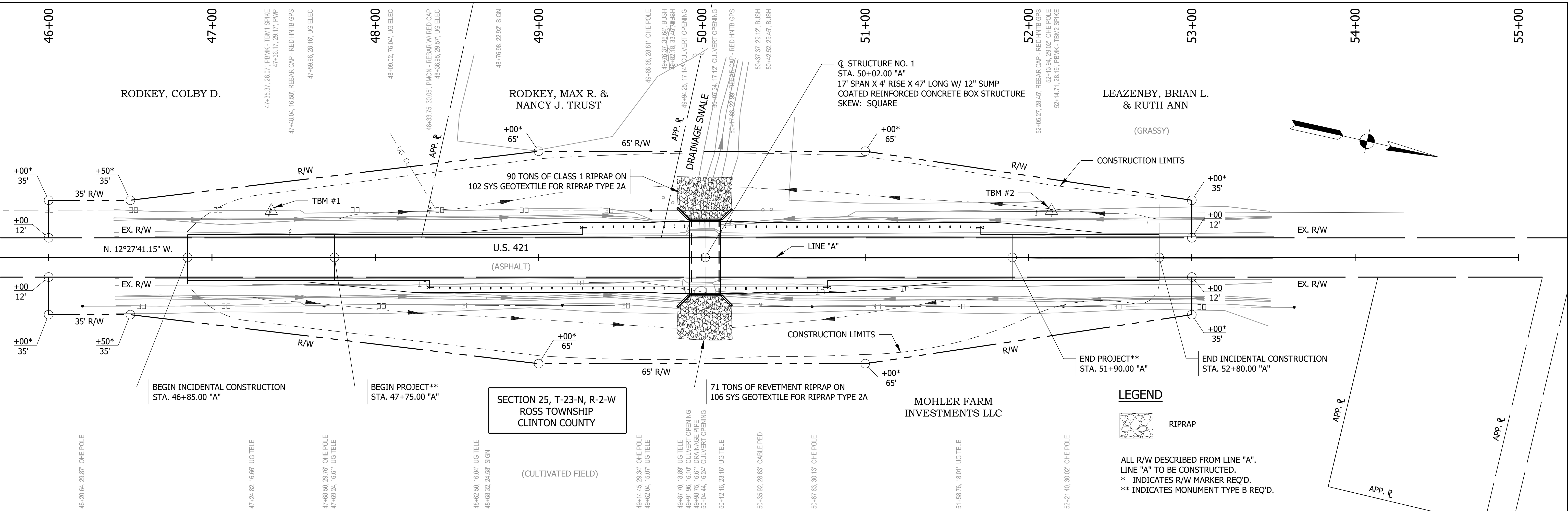
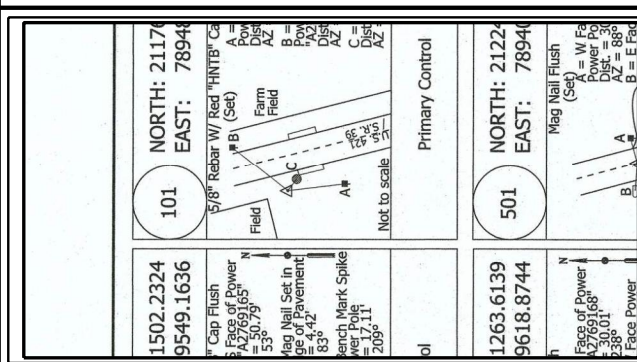
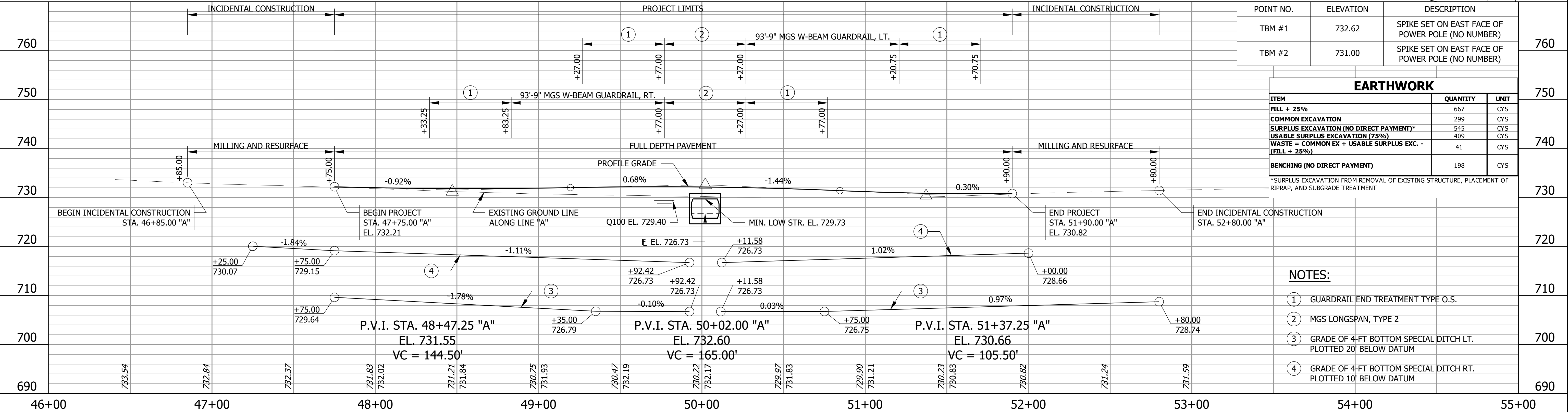
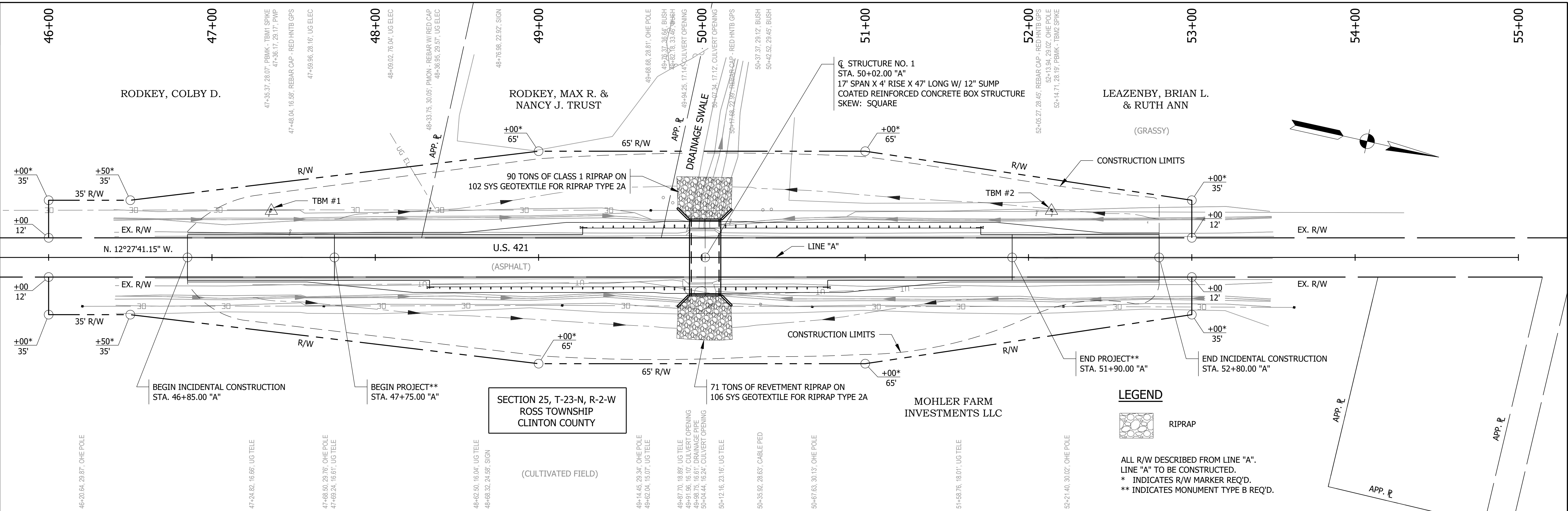
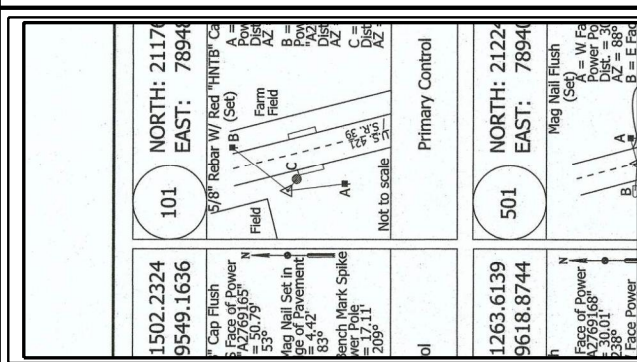
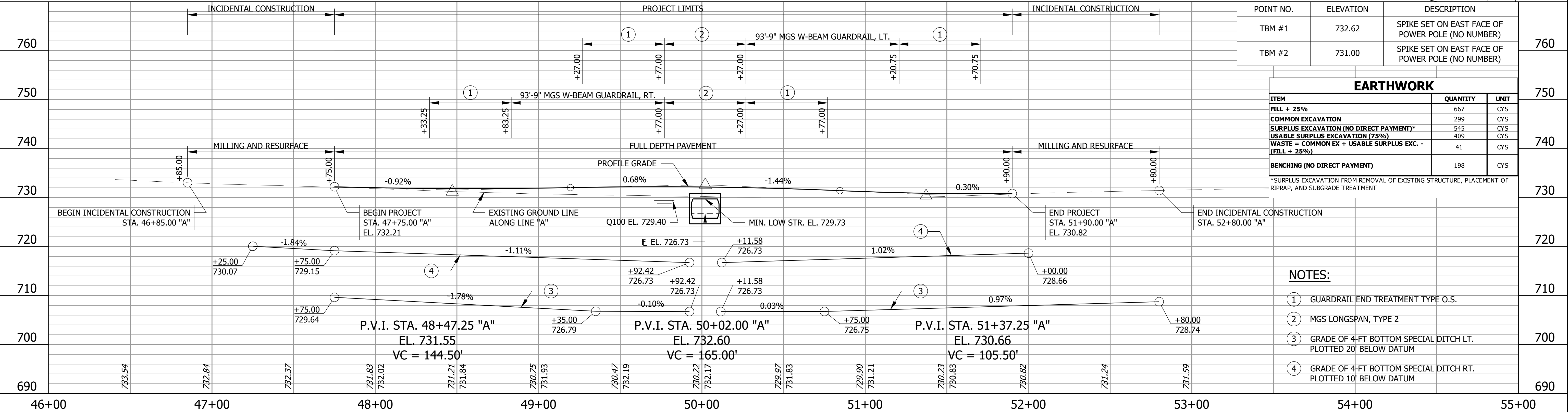
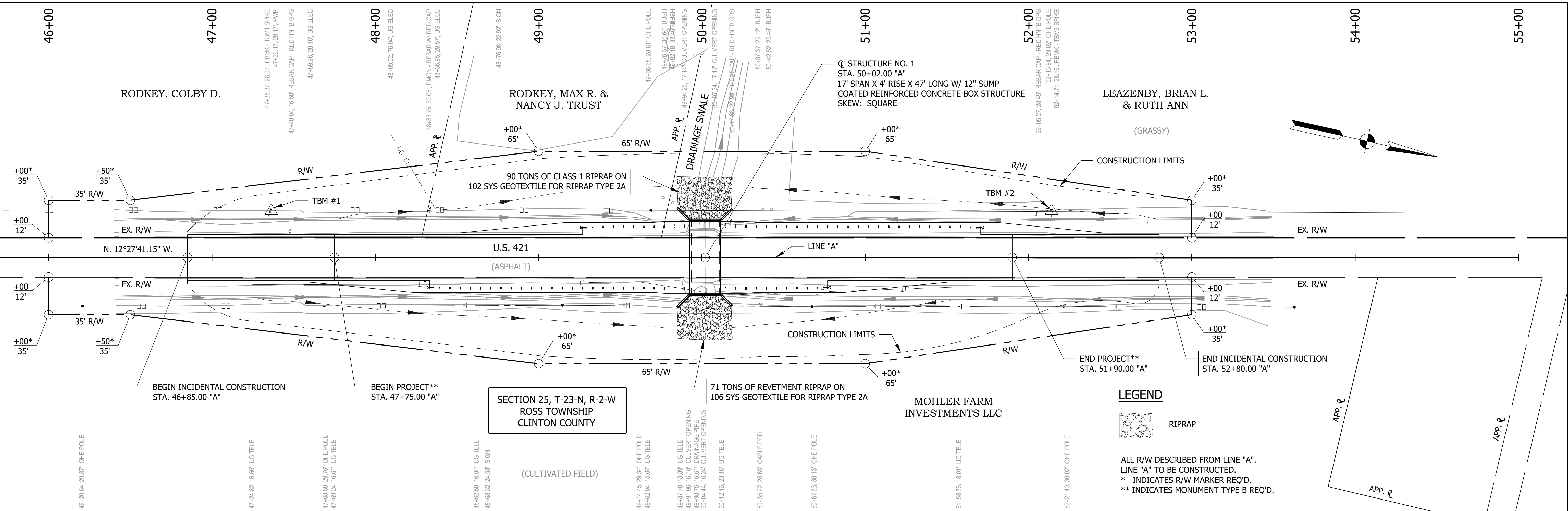
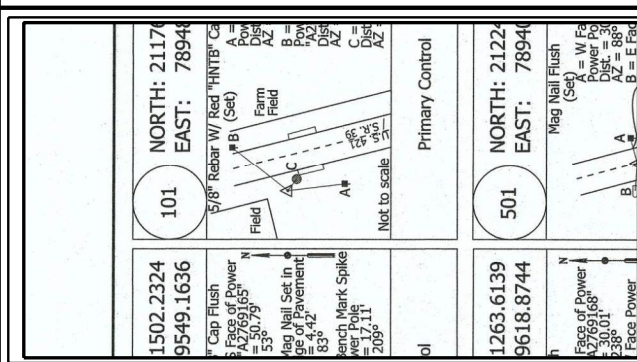
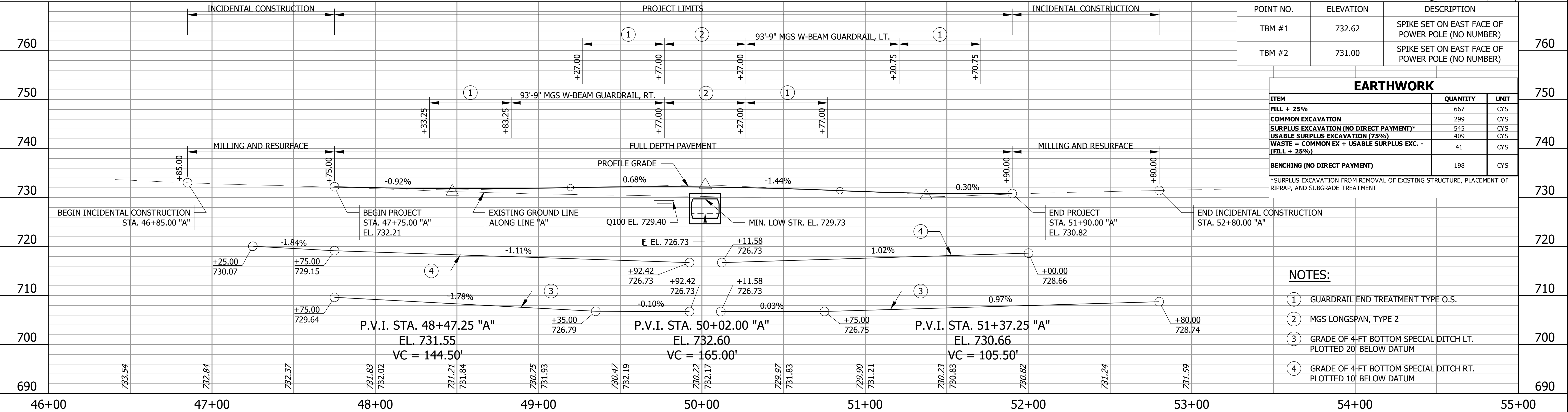
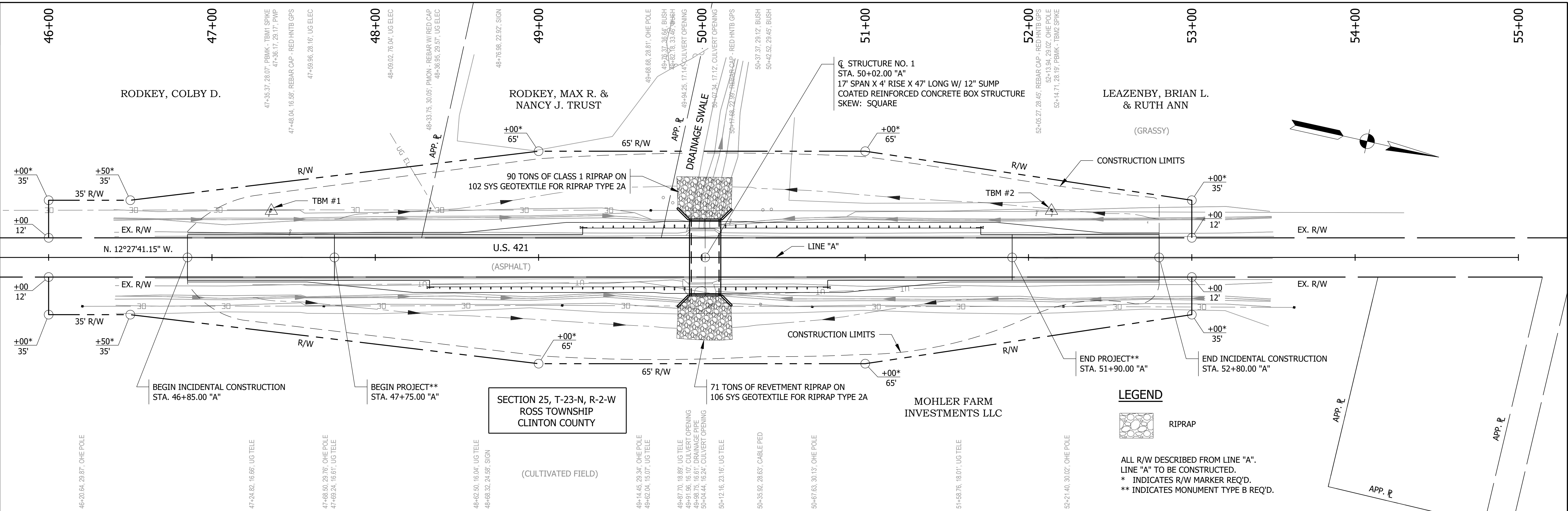
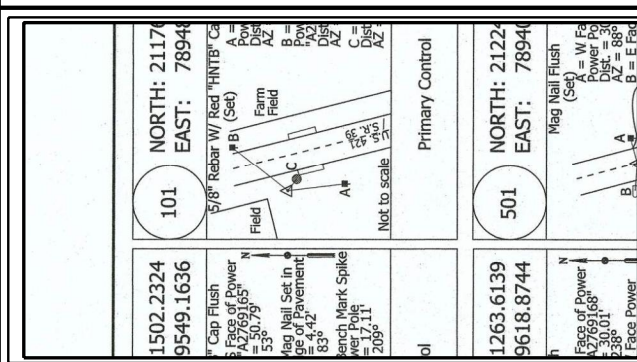
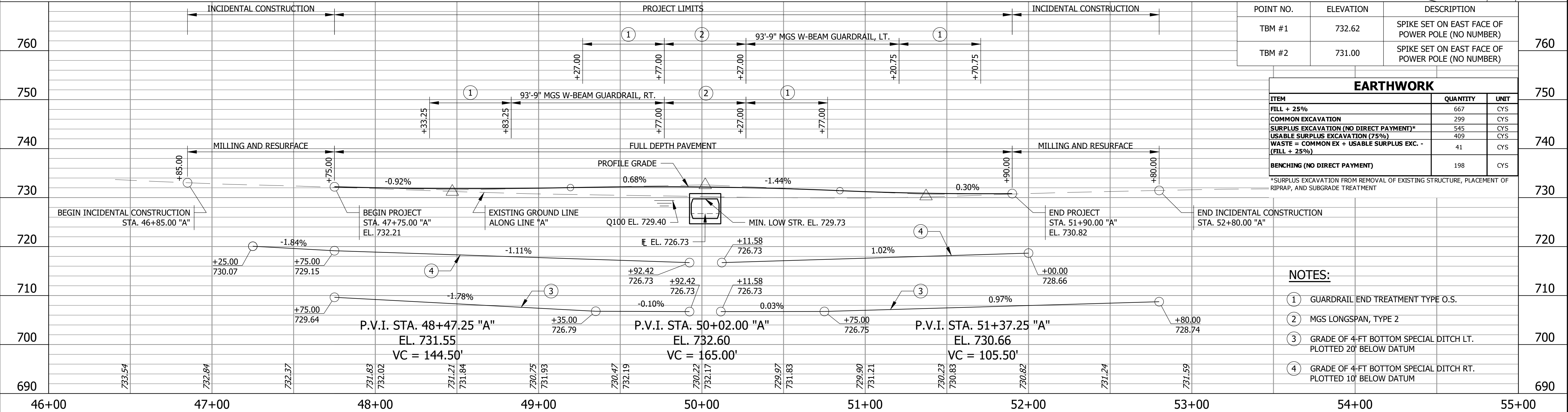
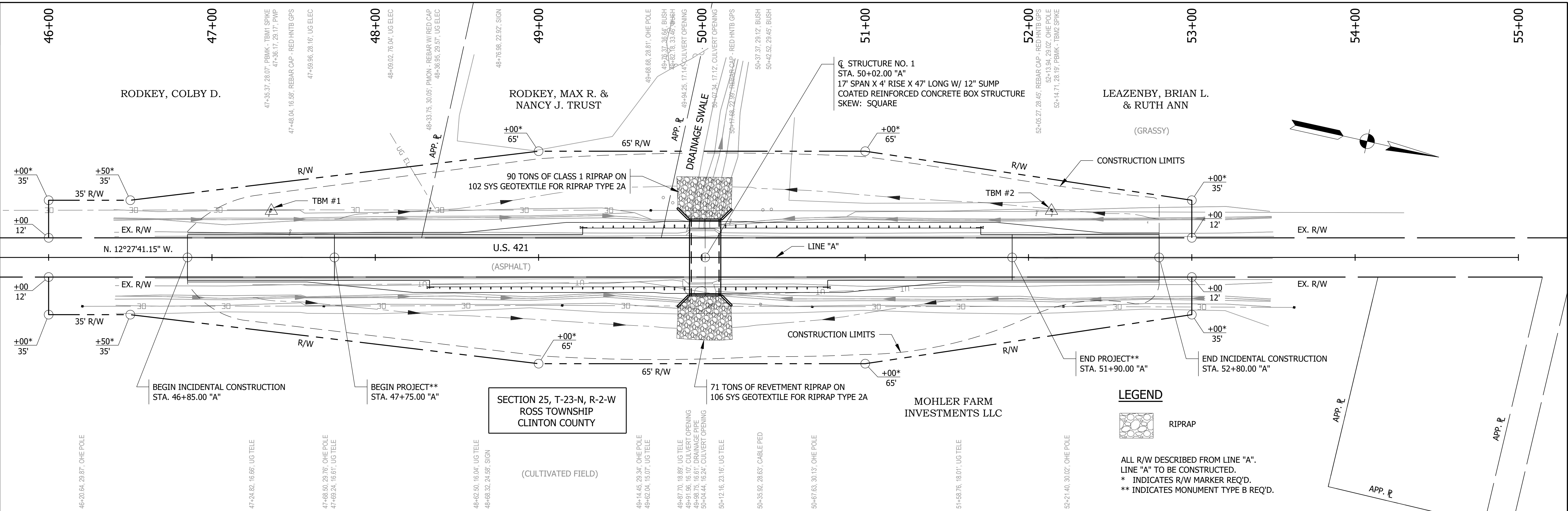
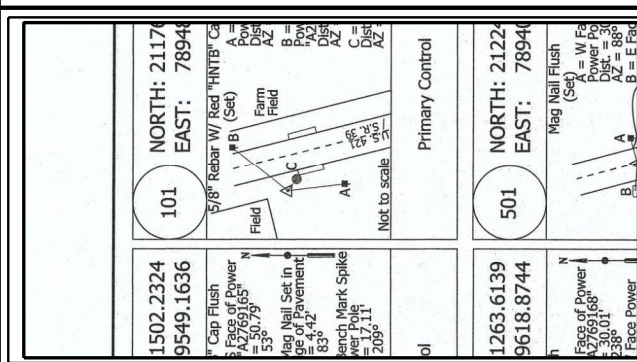
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Plotted / By: March 3, 2025 12:09:12 PM / Zed Hot



	PRELIMINARY	RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE DESIGNED: ZZH DRAWN: SEJ CHECKED: BJM CHECKED: ZZH	INDIANA DEPARTMENT OF TRANSPORTATION PLAT NO. 1	HORIZONTAL SCALE 1" = 50'-0" UNLESS NOTED	BRIDGE FILE N/A
				VERTICAL SCALE	DESIGNATION 2200665
					SHEET 4 of 16
				CONTRACT R-44376	PROJECT 2200682

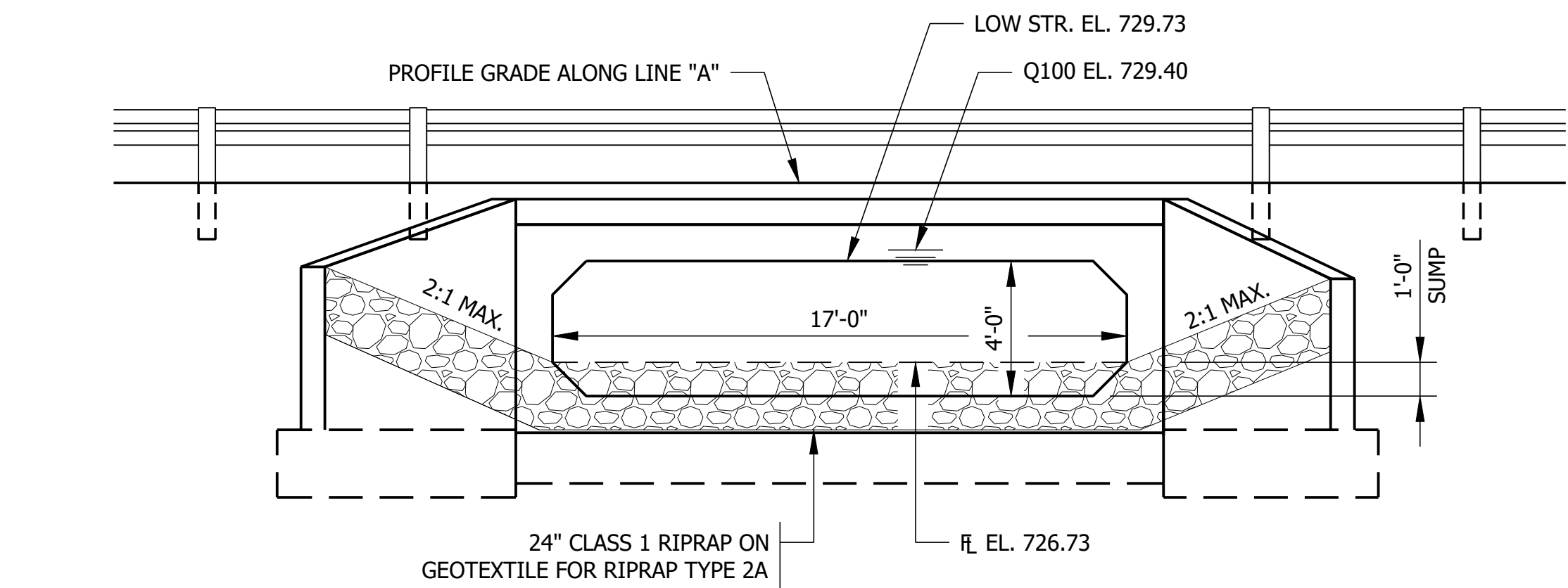
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Plotted / By:



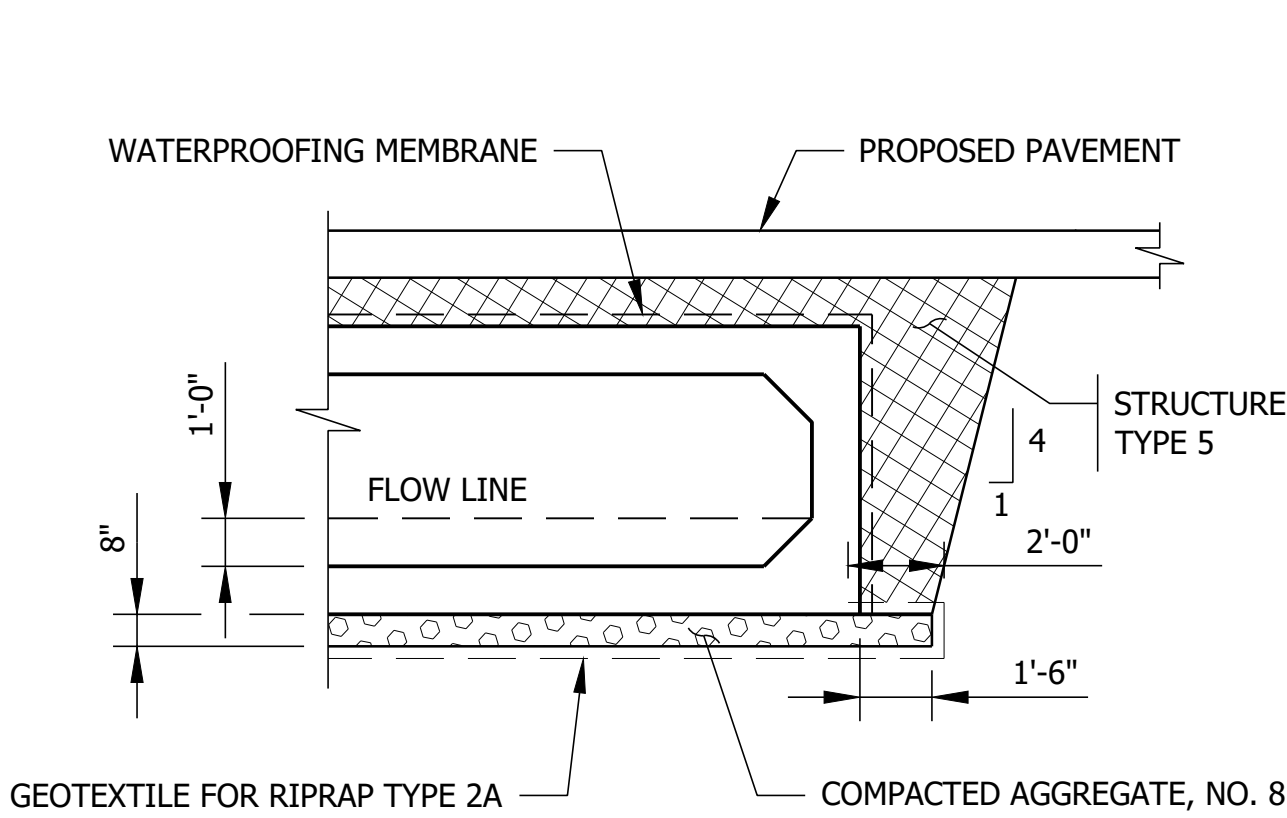
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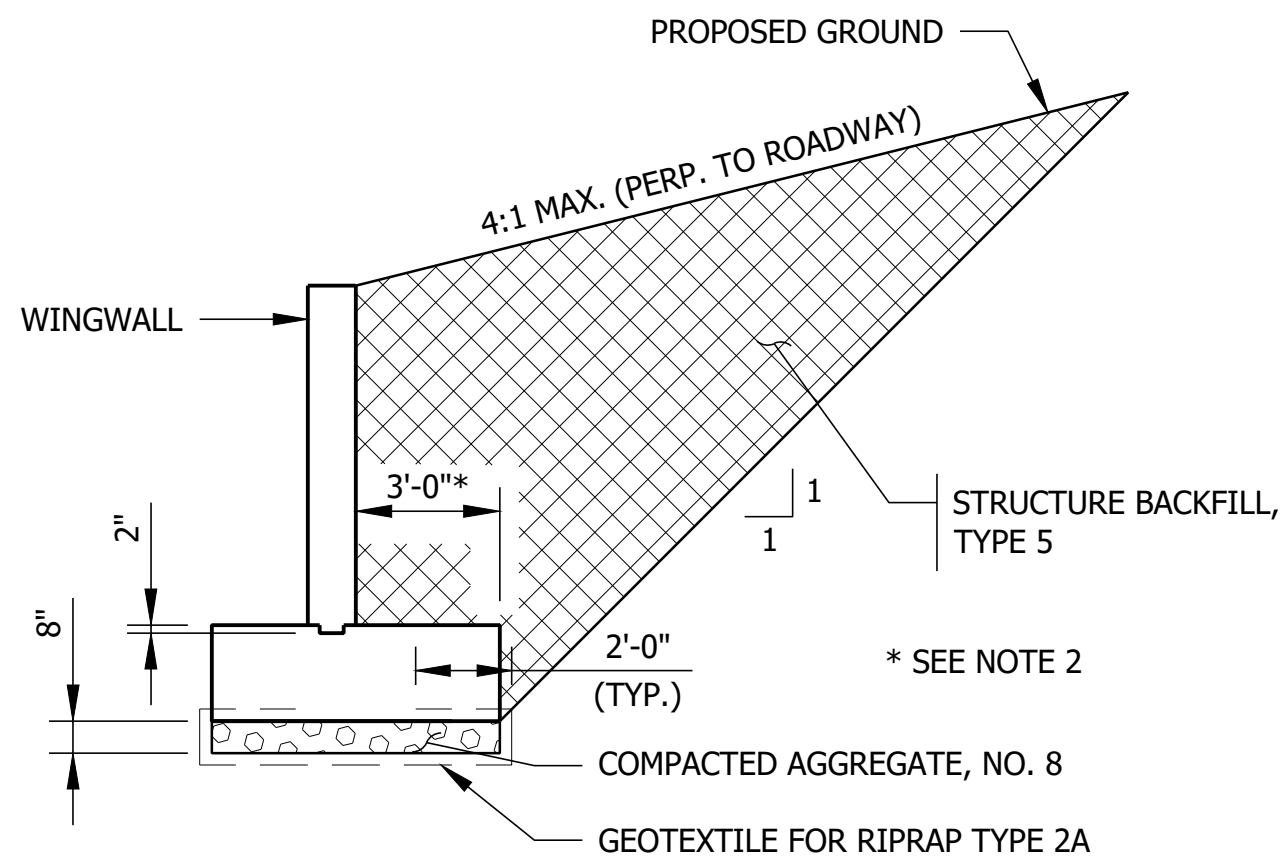
OUTLET ELEVATION

SCALE: 1/4" = 1'-0"



STRUCTURE BACKFILL AT STRUCTURE

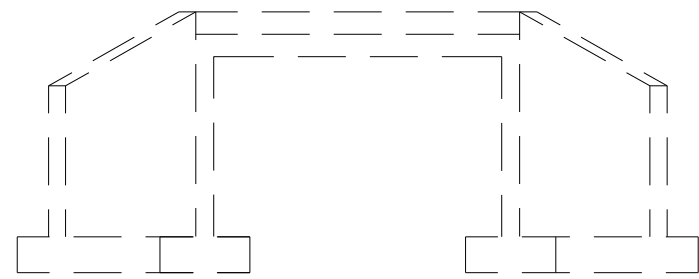
NOT TO SCALE



STRUCTURE BACKFILL AT WINGWALL

NOT TO SCALE

EXISTING STRUCTURE



THE EXISTING STRUCTURE IS A SINGLE SPAN REINFORCED CONCRETE SLAB TOP STRUCTURE WITH A 13' SPAN BY 2.5' RISE AND 0° SKEW. THE EXISTING STRUCTURE SHALL BE REMOVED.

DESIGN DATA

LIVE LOAD:

DESIGNED FOR HL-93 LOADING IN ACCORDANCE WITH SECTION 714 OF THE STANDARD SPECIFICATIONS.

DEAD LOAD:

ACTUAL WEIGHT PLUS 35 PSF (COMPOSITE) FOR FUTURE WEARING SURFACE.

DESIGN STRENGTHS:

TO BE IN ACCORDANCE WITH SECTION 714 OF THE STANDARD SPECIFICATIONS.

HYDRAULIC DATA

DRAINAGE AREA: 0.58 SQ. MI.
Q100 DISCHARGE: 381.40 CFS
Q100 ELEVATION: 729.40 FT.
APPROXIMATE SKEW: 0°0'0"

PROPOSED VELOCITY: 8.02 FT./SEC.
PROPOSED BACKWATER: 1.67 FT.
MINIMAL LOW STRUCTURE ELEVATION: 729.73 FT.

EXISTING BACKWATER: 2.22 FT.
EXISTING LOW STRUCTURE: 727.75 FT.

NOTES:

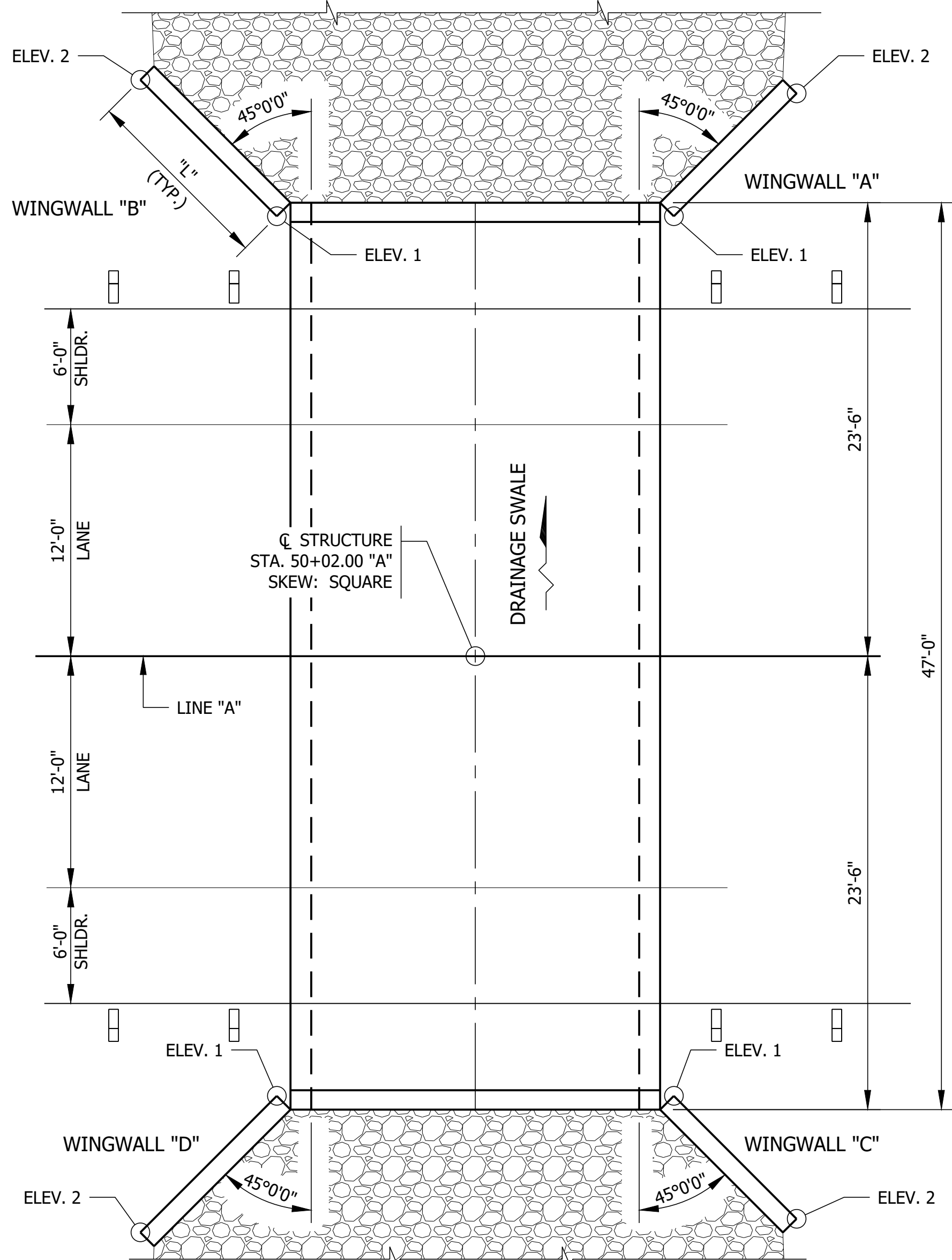
- BOTTOM OF FOOTING FOR THE PROPOSED WINGWALL SHALL BE 4'-0" BELOW THE FLOWLINE.
- ASSUMED DIMENSION TO ESTABLISH NEAT LINE FOR STRUCTURAL BACKFILL QUANTITY. DIMENSION MAY VARY PER WORKING DRAWINGS. ADDITIONAL STRUCTURAL BACKFILL OUTSIDE OF THE NEAT LINE ESTABLISHED ON THIS SHEET WILL NOT BE PAID FOR DIRECTLY AND SHALL BE INCLUDED IN THE COST OF OTHER ITEMS.

COATED REINFORCED
CONCRETE
BOX STRUCTURE
SPAN: 17'-0"
RISE: 4'-0"
SKEW: SQUARE
U.S. 421 OVER
DRAINAGE SWALE
CLINTON COUNTY

WINGWALL TABLE				
WING	"L"	ELEV. 1	ELEV. 2	AREA (SFT)
"A"	9.0 FT.	731.56	729.73	54.77
"B"	10.0 FT.	731.56	729.73	60.85
"C"	9.0 FT.	731.56	729.73	54.77
"D"	10.0 FT.	731.56	729.73	60.85

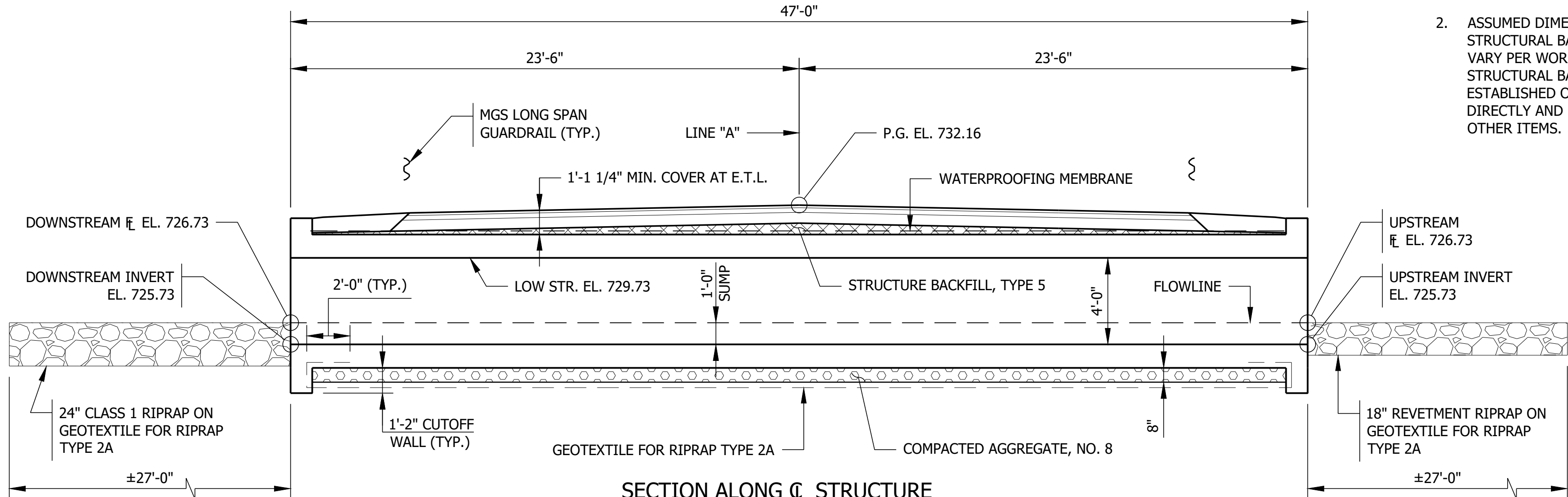
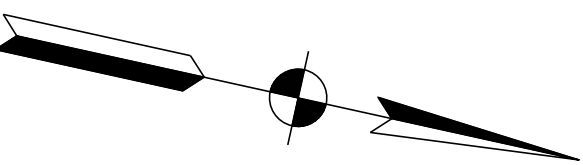
ESTIMATED QUANTITY OF HEADWALLS: 28.74 SFT.

RECOMMENDED PARAMETERS FOR WINGWALL FOOTINGS	VALUE
Resistance Factor	0.45
Nominal Bearing Resistance (psf)	7000
Factored Bearing Resistance (psf)	3150
Adhesion between Footings and Foundation Soil, Ca (psf)	1000
Total Unit Weight of Backfill Material (pcf)	125
The Angle of Internal Friction Between Wall and Backfill, δ (deg)	21
The Angle of Internal Friction of Foundation Material (deg) at RT End	30
The Cohesion of Foundation Material (psf) at LT End	1500
Minimum Footing Width (ft)	3



PLAN

SCALE: 3/16" = 1'-0"



SECTION ALONG C.C. STRUCTURE

SCALE: 1/4" = 1'-0"

PRELIMINARY

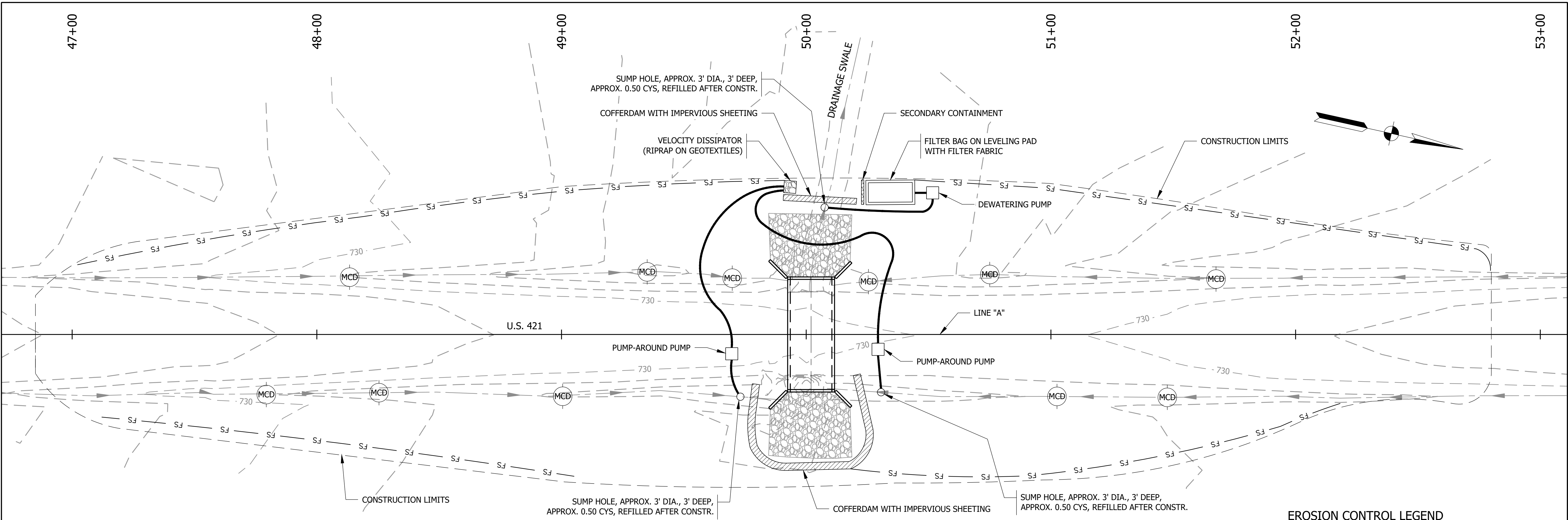
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: ZZH	DRAWN: SEJ	
CHECKED: BJM	CHECKED: ZZH	

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

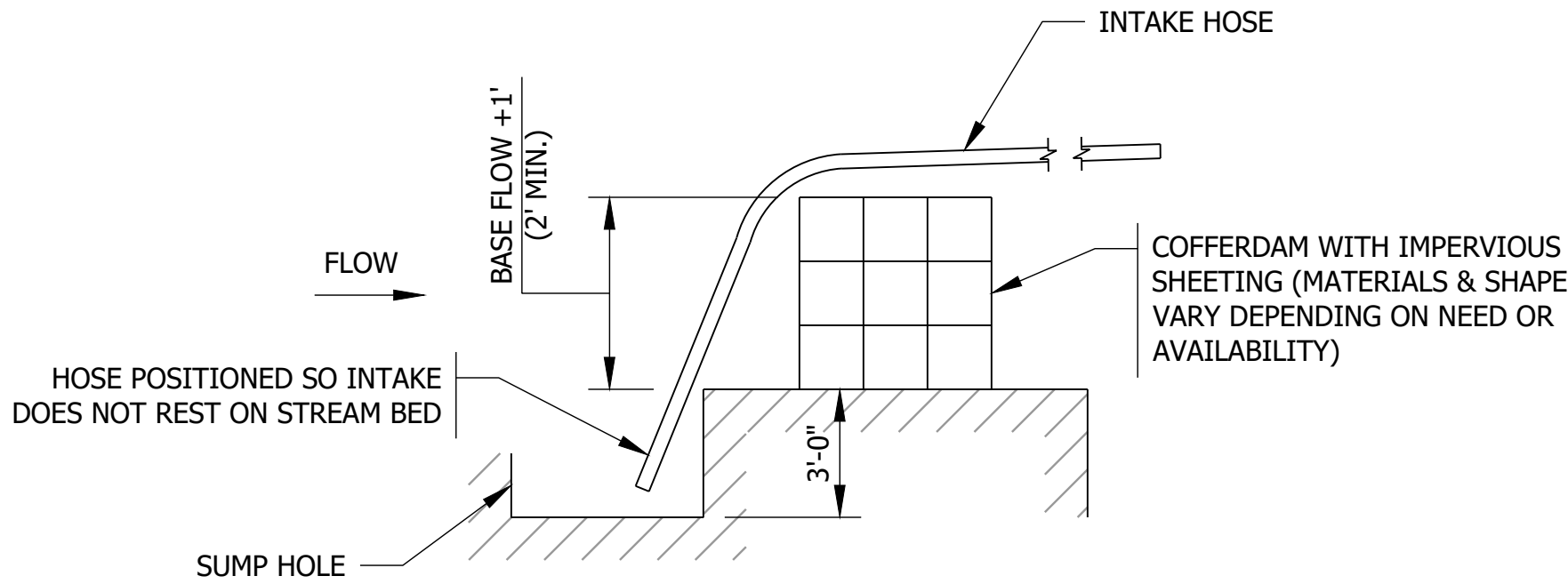
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
	2200665
	SHEET
	8 of 16
CONTRACT	PROJECT
R-44376	2200682

File Name: F:\4828 - Crawfordsville Small Str (3)A - 2200665_US421\50 Plans\30 Sheet Drawings\10 Design Sheets\S-EROS-CTRL-01.dwg - Layout1
Modified / By: March 3, 2025 11:57:49 AM / zhot
Plotted / By: March 3, 2025 12:09:37 PM / Zed Hot



EROSION CONTROL LEGEND

- FS FILTER SOCK
- RIPRAP
- DISCHARGE WATER MUST FILTER THROUGH A SEDIMENT TRAP OR OTHER SEDIMENT CONTROL MEASURES PRIOR TO REACHING WATERWAY
- MCD TEMPORARY CHECK DAM, MODIFIED



COFFERDAM/SUMP HOLE WORK AREA

NOT TO SCALE

NOTES:

- ALL DISTURBANCES FROM CONSTRUCTION OPERATIONS ABOVE THE OHWM SHALL BE REFILLED AND RESEEDED WITH INDOT SEED MIX, TYPE R.
- TEMPORARY DEWATERING MEASURES ARE EXPECTED TO BE IN PLACE FOR 6 WEEKS.
- FILTER SOCK SHALL NOT CROSS STREAM.

TEMPORARY EROSION CONTROL

LOCATION		LEFT	RIGHT	* FILTER SOCK	* TEMPORARY CHECK DAMS STRAW BALES	* TEMPORARY CHECK DAMS REVETMENT RIPRAP	* TEMPORARY FILTER STONE	*TEMPORARY GEOTEXTILES	*TEMPORARY REVETMENT RIPRAP	*TEMPORARY SLOPE DRAIN	*TEMPORARY SEEDING	*TEMPORARY MULCH	*TEMPORARY MULCH STABILIZATION	*TEMPORARY INLET PROTECTION	*MOBILIZATION AND DEMOBILIZATION FOR SURFACE STABILIZATION	* NO. 2 STONE FOR CONSTRUCTION ENTRANCE
FROM STATION	TO STATION			FT	FT	TON	TON	SYS	TON	FT	LBS	TON	SYS	EACH	EACH	TON
46+85.00 "A"	52+80.00 "A"	X		550		30	1.0	150	5		89	1.5				
46+85.00 "A"	52+80.00 "A"		X	400		35	1.5	175			89	1.5				100
CONSTRUCTION ENTRANCE								120								
TOTALS				1025		65	2.5	445	5		178	3.0			1	100

*QUANTITY SHOWN FOR INFORMATION ONLY. COST INCLUDED IN "STORM WATER MANAGEMENT BUDGET".

File Name: F:\4828 - Crawfordsville Small Str (3)A - 2200665_US421\50 Plans\30 Sheet Drawings\10 Design Sheets\S-EROS-CTRL-01.dwg - Layout1
Modified / By: March 3, 2025 11:57:49 AM / zhot
Plotted / By: March 3, 2025 12:09:37 PM / Zed Hot

PRELIMINARY

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: ZZH	DRAWN: SEJ	
CHECKED: BJM	CHECKED: ZZH	

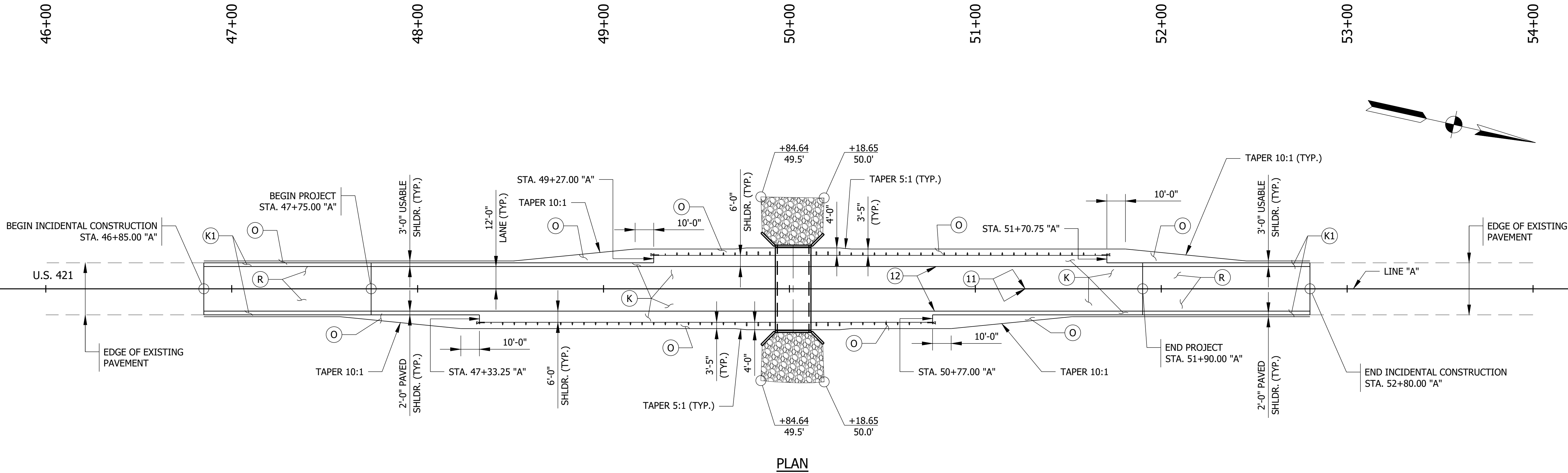
INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

HORIZONTAL SCALE 1" = 20'-0" UNLESS NOTED	BRIDGE FILE N/A
VERTICAL SCALE	DESIGNATION 2200665
	SHEET 10 of 16
CONTRACT R-44376	PROJECT 2200682

F:\4828 - Crawfordsville Small Str (3)A - 2200665_US421\50 Plans\30 Sheet Drawings\10 Design Sheets\CONSTR-DTLS-01.dwg - Layout1
August 12, 2024 9:42:29 AM / zhot
March 3, 2025 12:09:44 PM / Zed Hot

File Name:
Modified / By:
Plotted / By:



LEGEND

- (K) 165 LBS/SYD QC/QA HMA, 3, 58S, SURFACE, 9.5MM ON
275 LBS/SYD QC/QA HMA, 3, 58S, INTERMEDIATE, 19.0MM ON
660 LBS/SYD QC/QA HMA, 3, 58S, BASE, 25.0MM
- (K1) WIDENING WITH HMA TYPE B CONSISTING OF:
165 LBS/SYS QC/QA HMA, 3, 58S, SURFACE, 9.5 MM ON
275 LBS/SYD HMA INTERMEDIATE, TYPE B ON
660LBS/SYD HMA BASE, TYPE B
- (R) 165 LBS/SYD QC/QA HMA, 3, 58S, SURFACE, 9.5MM ON
TRANSITION MILLING
- TACK COAT TO BE PLACED BETWEEN HMA LAYERS. JOINT
ADHESIVE TO BE INSTALLED AT ALL LONGITUDINAL JOINTS IN
THE SURFACE AND INTERMEDIATE LAYER. LIQUID ASPHALT
SEALANT TO BE PLACED CENTERED ON THE LONGITUDINAL
JOINTS THAT HAVE JOINT ADHESIVE INSTALLED.
- (O) 10" COMPACTED AGGREGATE, NO. 53
- (11) LINE, PAINT, SOLID, YELLOW, 6IN
- (12) LINE, PAINT, SOLID, WHITE, 6IN

RIPRAP

SHEET SIGN, MAILBOX, AND POST SUMMARY

SHEET SIGN, MAILBOX, AND POST SUMMARY											
SIGN							POSTS			MAILBOX APPROACHES	REMARKS
LINE	SIGN LOCATION (STA.)	SIGN CODE	SIGN SIZE (IN X IN)	SIGN, SHEET, WITH LEGEND, 0.080 IN. THICKNESS	SIGN, GROUND MOUNTED, RESET	SIGN, DO NOT MOW OR SPRAY	SQUARE, TYPE 1, UNREINFORCED ANCHOR BASE			MAILBOX ASSEMBLY, SINGLE	
							SFT	EACH	EACH	LENGTH	
"A"	48+00.00, 25.0' LT.	R8-1	30 x 20		1.0		11	1	11		RESET EXISTING SIGN ON NEW POST
"A"	48+00.00, 26.5' LT.	R8-1	30 x 20		1.0		11	1	11		RESET EXISTING SIGN ON NEW POST
TOTALS					2.0				22.0		

PAVEMENT MARKINGS TABLE

LOCATION					
FROM STATION	TO STATION	LEFT	CENTER	RIGHT	LINE, PAINT, SOLID, WHITE, 6 IN.
					LFT
46+85.00 "A"	52+80.00 "A"	X			595
46+85.00 "A"	52+80.00 "A"		X		1190
46+85.00 "A"	52+80.00 "A"			X	595
TOTALS					1190

PRELIMINARY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____

DESIGNED: ZZH DRAWN: SEJ

CHECKED: BJM CHECKED: ZZH

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

HORIZONTAL SCALE
1" = 30'-0" UNLESS NOTED
VERTICAL SCALE

CONTRACT
R-44376

BRIDGE FILE
N/A
DESIGNATION
2200665

SHEET
9 of 16
PROJECT
2200682

F:\4828 - Crawfordville Small Str (3)A - 2200665_US421\50 Plans\30 Sheet Drawings\10 Design Sheets\S-SUMMARY.01.dwg - Layout1
August 12, 2024 9:42:22 AM / zhot
March 3, 2025 12:09:54 PM / Zed Hot

File Name:
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PAVEMENT QUANTITES AND APPROACH TABLE																															
LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII in/out	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADE (LESS THEN 10% NOT SHOWN)		EXCAVATION		QC/QA HMA, 3, 38S, 9.5mm	QC/QA HMA, 3, 58S, 19.0mm	QC/QA HMA, 3, 58S, 25.0mm	WIDENING WITH HMA, TYPE B	ASPHALT FOR TACK COAT	SUBGRADE IMPROVEMENT			COMPACTED AGGREGATE No. 53	SUBGRADE TREATMENT, TYPE 1C	GEOTEXTILE FOR PAVEMENT, TYPE 2B	HMA FOR APPROACHES, TYPE B	COMPACTED AGGREGATE No. 53	SUBGRADE TREATMENT, TYPE II	TRANSITION MILLING	JOINT ADHESIVE		LIQUID ASPHALT SEALANT	REMARKS
						COMPACTED AGGREGATE	HMA	CONCRETE										COMPACTED AGGREGATE NO. 5	COMPACTED AGGREGATE NO. 53	GEOTEXTILE FOR PAVT., TYPE 2B											
						1	2	CYS	165	275	660																				
						%	%	CUT	FILL	TON	TON	TON	TON	TON	CYS	CYS	SYS	TON	SYS	SYS	TON	SYS	SYS	TON	CYS	SYS	SYS	LFT	INTER.	LFT	
U.S. 421 LINE "A"		36	415								299	533	171	210	511	53	1	50	50	100	290	1853	1693				480	1785	1605	1785	
TOTALS											299	533	171	210	511	53	1	50	50	100	290	1853	1693				480	1785	1605	1785	

STRUCTURE DATA																																								
STRUCTURE NUMBER	LOCATION					SIZE	PIPE TYPE	DESCRIPTION MANHOLE, INLET, CATCH BASIN OR SPECIALTY STRUCTURE	LENGTH	VIDEO INSPECTION LENGTH	SKEW	COVER		FLOW LINE		SERVICE LIFE	SITE DESIGNATION	PH	BACKFILL METHOD	STRUCTURE BACKFILL, TYPE 1	STRUCTURE BACKFILL, TYPE 2	STRUCTURE BACKFILL, TYPE 5	SCOUR PROTECTION			SUMP DEPTH	STR. FDN. IMPROVEMENT				WATERPROOFING MEMBRANE, TYPE 3	SAFETY METAL END SECTION		CONNECT TO STR.	CULVERT ASSET ID	REMARKS				
	STATION	LEFT	RIGHT	CROSS	FT							FT	MAX	MIN	UPSTREAM								DOWNSTREAM	TON	TON		SYS	IN.	CYS	CYS							SYS	SFT	SLOPE	EA.
1	50+02.00 "A"			X		17 X 4		REINFORCED CONCRETE BOX STRUCTURE	47		0	1.33	1.11	726.73	726.73	75						134	71	90	208	12	31		190	1481				CV 421-012-133.62	EPOXY COATED REINFORCEMENT					

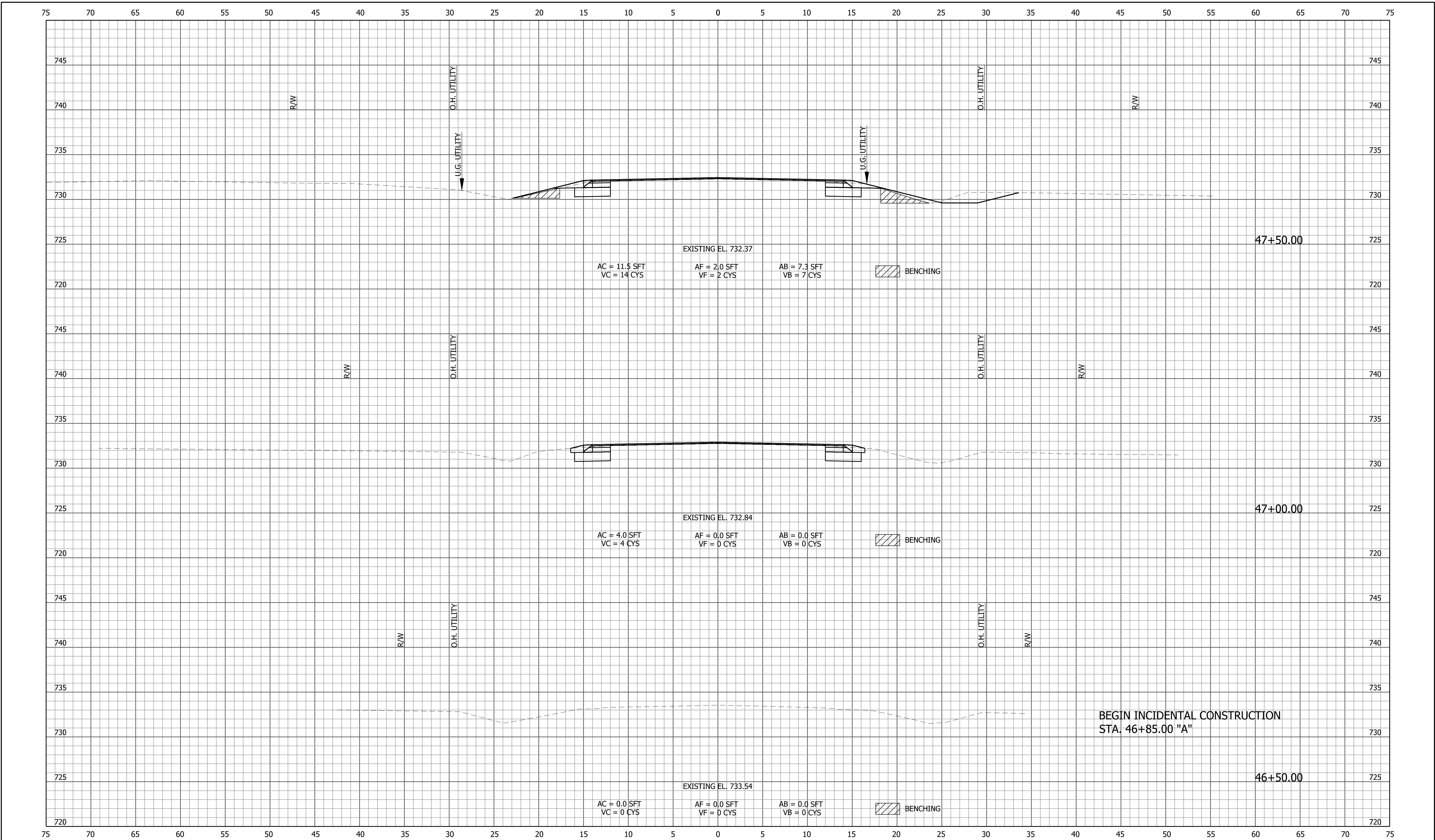
GUARDRAIL SUMMARY TABLE						
LOCATION				MGS GUARDRAIL		
FROM STATION	TO STATION	LEFT	RIGHT	STANDARD POST AT 6 FT. 3 IN. SPA.	MGS LONGSPAN, TYPE 2	GUARDRAIL END TREATMENT, TYPE OS
				LFT	EACH	EACH
49+27.00 "A"	49+77.00 "A"	X			1.0	1.0
49+77.00 "A"	50+27.00 "A"	X				
50+27.00 "A"	51+20.75 "A"	X		93.75		
51+20.75 "A"	51+70.75 "A"	X				1.0
48+33.25 "A"	48+83.25 "A"		X		1.0	1.0
48+83.25 "A"	49+77.00 "A"		X	93.75		
49+77.00 "A"	50+27.00 "A"		X			1.0
50+27.00 "A"	50+77.00 "A"		X			1.0
TOTALS				187.50	2.0	4.0

MONUMENT SUMMARY TABLE						
LOCATION						
STATION	OFFSET	LEFT	RIGHT	MONUMENT, TYPE B	RIGHT-OF-WAY MARKER	
	FT					
47+75.00 "A", BEGIN PROJECT				X		
51+90.00 "A", END PROJECT				X		
46+00.00 "A"	35	X			X	
46+50.00 "A"	35	X			X	
49+00.00 "A"	65	X			X	
51+00.00 "A"	65	X			X	
53+00.00 "A"	35	X			X	
46+00.00 "A"	35		X		X	
46+50.00 "A"	35		X		X	
49+00.00 "A"	65		X		X	
51+00.00 "A"	65		X		X	
53+00.00 "A"	35		X		X	
TOTALS				2	10	

RIPRAP, SEEDING, AND SODDING SUMMARY TABLE								
LOCATION					LENGTH	SODDING	MULCHED SEEDING, R	MOBILIZATION AND DEMOLIZATION FOR SEEDING
FROM STATION	TO STATION	LEFT	MEDIAN	RIGHT				
					LFT	SYS	SYS	EACH
46+85.00 "A"	52+80.00 "A"	X		X	595		2873	1
47+75.00 "A"	49+84.63 "A"	X			209.6	280		
50+18.66 "A"	52+80.00 "A"	X			261.3	349		
47+25.00 "A"	49+84.63 "A"			X	259.6	347		
50+18.66 "A"	52+00.00 "A"			X	181.3	242		
TOTALS						1218	2873	1

	PRELIMINARY	RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE N/A		BRIDGE FILE N/A	
		DESIGNED: ZZH		DRAWN: SEJ		SUMMARY TABLES		VERTICAL SCALE		DESIGNATION 2200665	
		CHECKED: BJM		CHECKED: ZZH						SHEET 11 of 16	
								CONTRACT R-44376		PROJECT 2200682	

File Name: F:\4828 - Crawfordsville Small Str (3)A - 2200665_US421140 Design\40 Junk\2200665.dwg - Section Sheet - (1)
August 12, 2024 8:58:37 AM / zhot
Plotted / By: August 12, 2024 9:18:30 AM / Zed Hott



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Plotted / By: August 12, 2024 9:18:30 AM / Zed Hott

PRELIMINARY

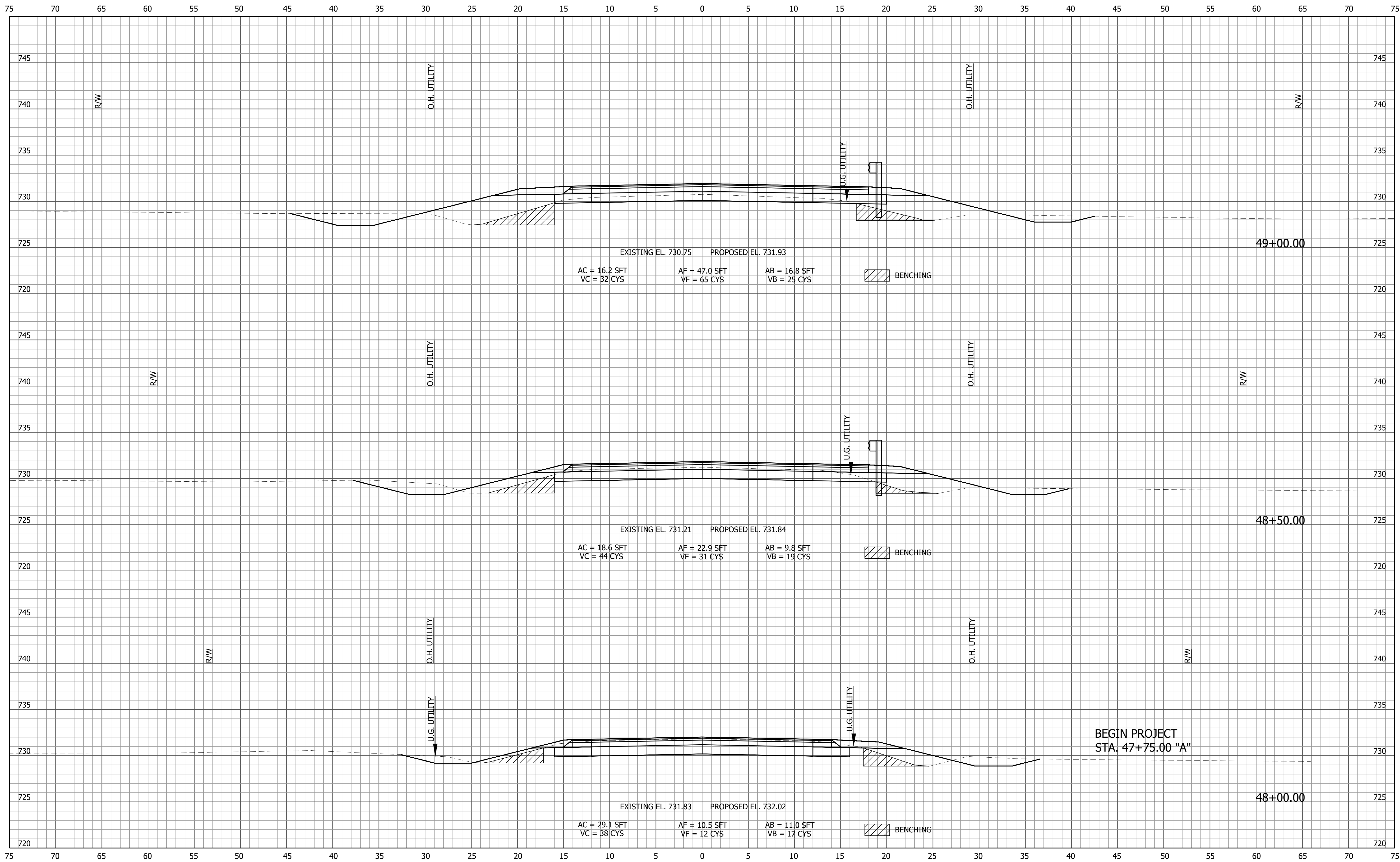
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____
DESIGNED: ZZH DRAWN: SEJ
CHECKED: BJM CHECKED: ZZH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 5'	DESIGNATION 2200665
	SHEET 12 of 16
	PROJECT 2200682

File Name: F:\4828 - Crawfordsville Small Str (3)A - 2200665_US421140 Design\40 Junk\2200665.dwg - Section Sheet - (2)
August 12, 2024 8:58:37 AM / zhot
Plotted / By: August 12, 2024 9:19:35 AM / Zed Hott



File Name: F:\4828 - Crawfordsville Small Str (3)A - 2200665_US421140 Design\40 Junk\2200665.dwg - Section Sheet - (2)
August 12, 2024 8:58:37 AM / zhot
Plotted / By: August 12, 2024 9:19:35 AM / Zed Hott

PRELIMINARY

RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER _____ DATE _____
DESIGNED: ZZH DRAWN: SEJ
CHECKED: BJM CHECKED: ZZH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

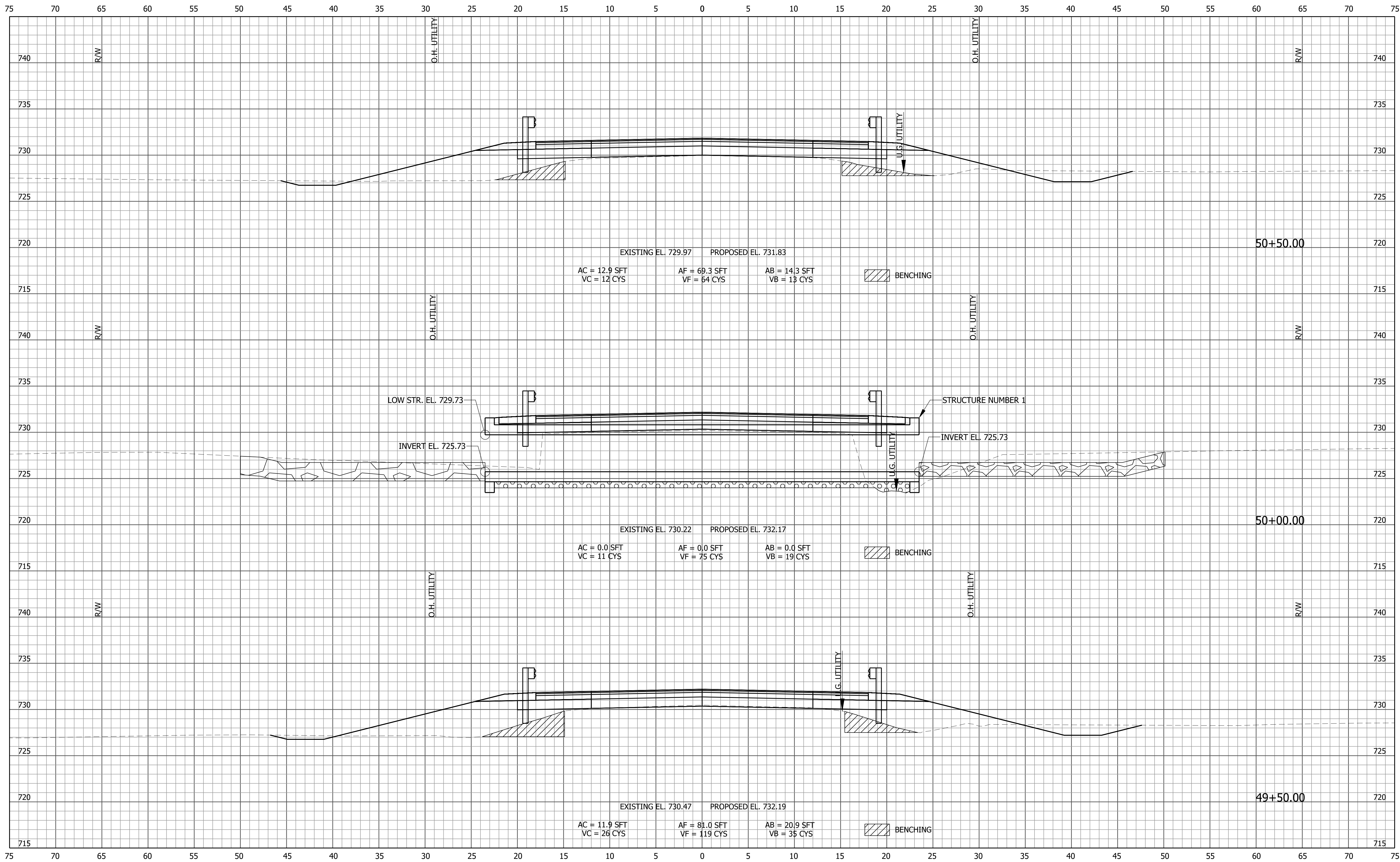
HORIZONTAL SCALE
1" = 5'
VERTICAL SCALE
1" = 5'

CONTRACT
R-44376

BRIDGE FILE
N/A
DESIGNATION
2200665

SHEET
13 of 16
PROJECT
2200682

File Name: F:\4828 - Crawfordsville Small Str (3)A - 2200665_US421140 Design\40 Junk\2200665.dwg - Section Sheet - (3)
August 12, 2024 8:58:37 AM / zhot
Plotted / By: August 12, 2024 9:19:40 AM / Zed Hott



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August 12, 2024 8:58:37 AM / zhot
Plotted / By: August 12, 2024 9:19:40 AM / Zed Hott

PRELIMINARY

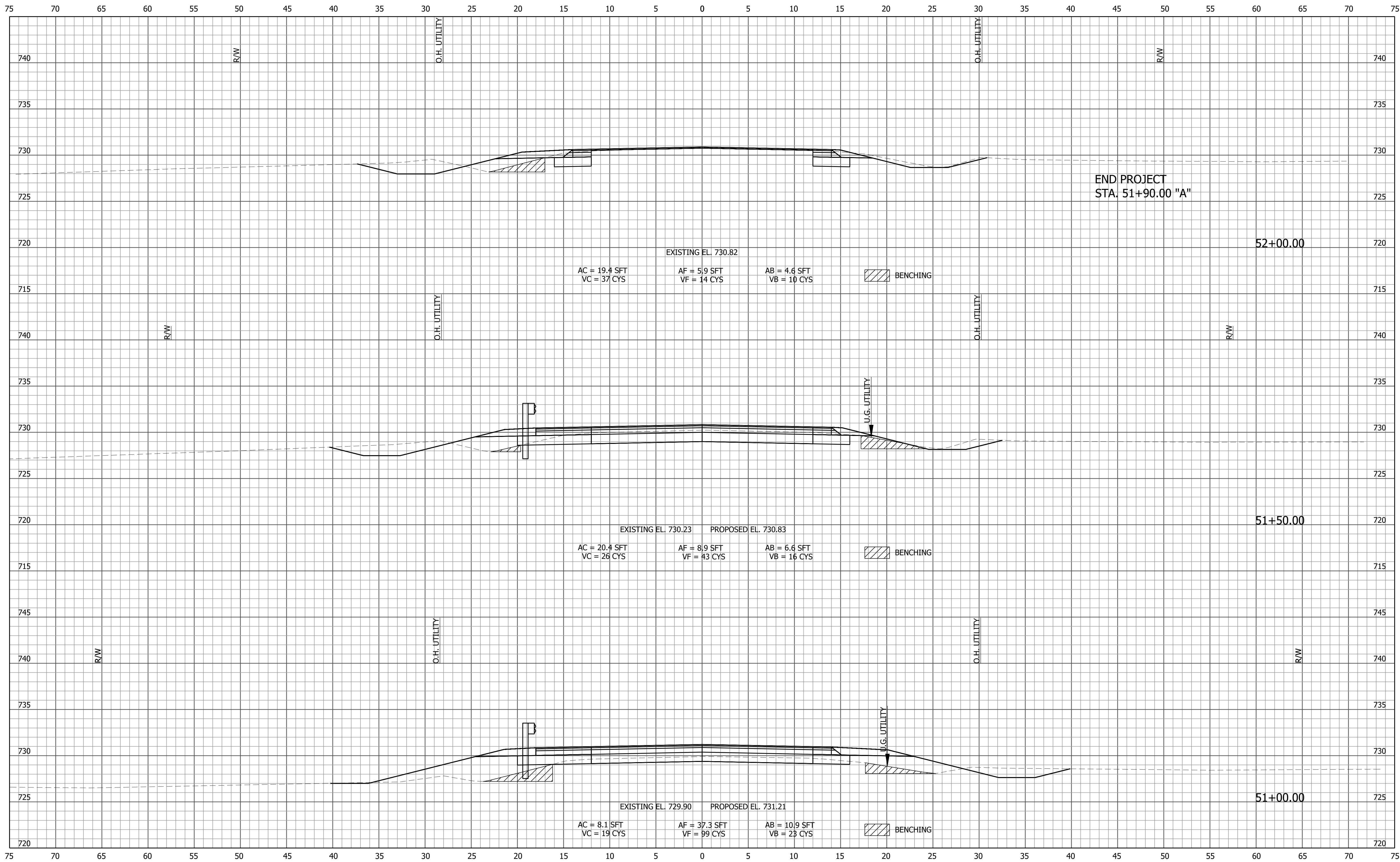
RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER _____ DATE _____
DESIGNED: ZZH DRAWN: SEJ
CHECKED: BJM CHECKED: ZZH

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 5'	DESIGNATION 2200665
	SHEET 14 of 16
	PROJECT 2200682
	CONTRACT R-44376

File Name: F:\4828 - Crawfordsville Small Str (3)A - 2200665_US421140 Design\40 Junk\2200665.dwg - Section Sheet - (4)
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Plotted / By: August 12, 2024 9:19:51 AM / Zed Hott



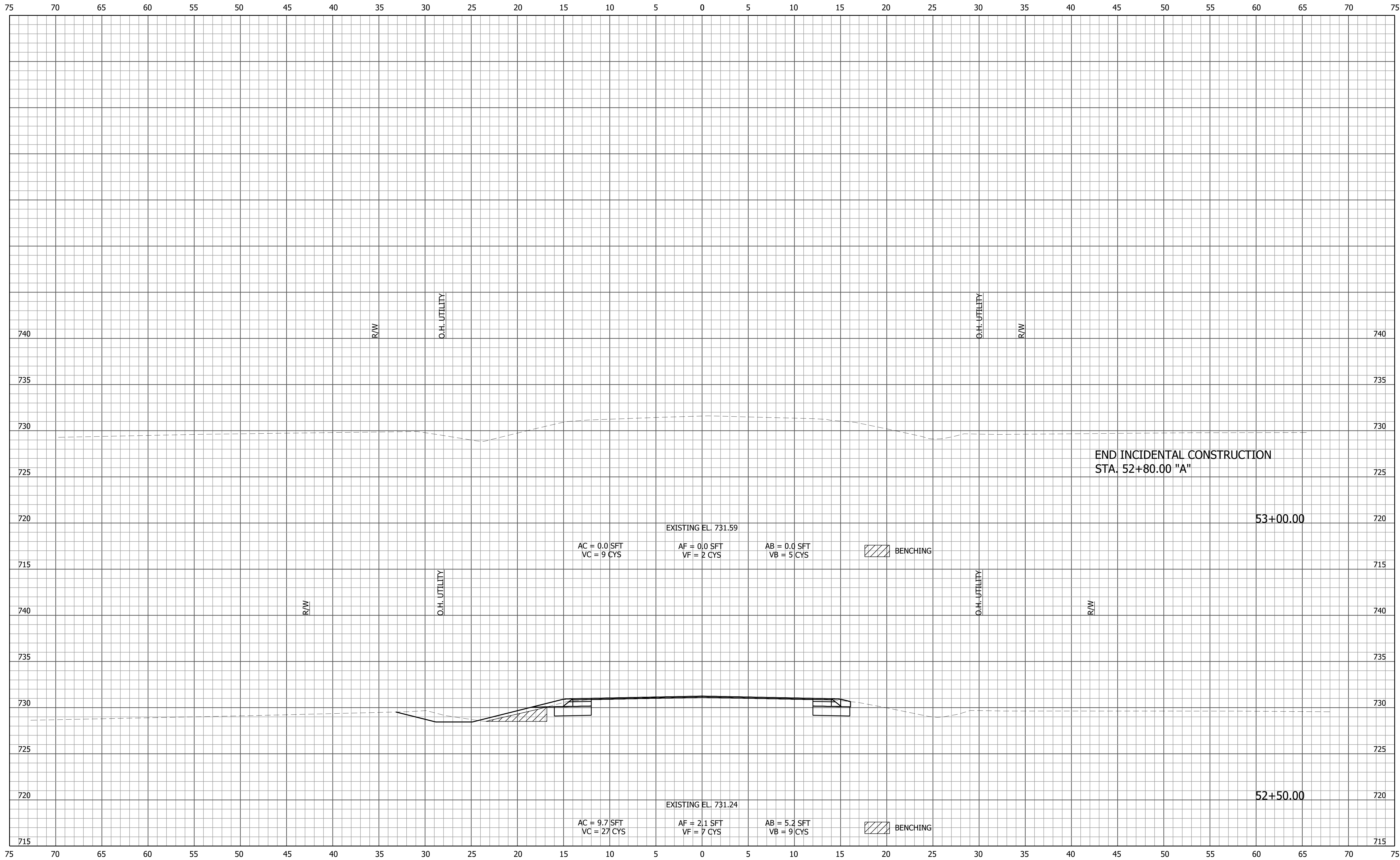
PRELIMINARY

RECOMMENDED
FOR APPROVAL _____
DESIGNED: ZZH DRAWN: SEJ
CHECKED: BJM CHECKED: ZZH

INDIANA
DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 5'	DESIGNATION 2200665
	SHEET 15 of 16
CONTRACT R-44376	PROJECT 2200682

File Name: F:\4828 - Crawfordsville Small Str (3)A - 2200665_US421140 Design\40 Junk\2200665.dwg - Section Sheet - (5)
August 12, 2024 8:58:37 AM / zhot
Plotted / By: August 12, 2024 9:19:58 AM / Zed Hott



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August 12, 2024 8:58:37 AM / zhot
Plotted / By: August 12, 2024 9:19:58 AM / Zed Hott

PRELIMINARY

RECOMMENDED FOR APPROVAL _____
DESIGNED: ZZH DRAWN: SEJ
CHECKED: BJM CHECKED: ZZH

INDIANA
DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 5'	DESIGNATION 2200665
	SHEET 16 of 16
	PROJECT 2200682