

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22-00026-00-DR	TAZEWELL	40	1
ILLINOIS			

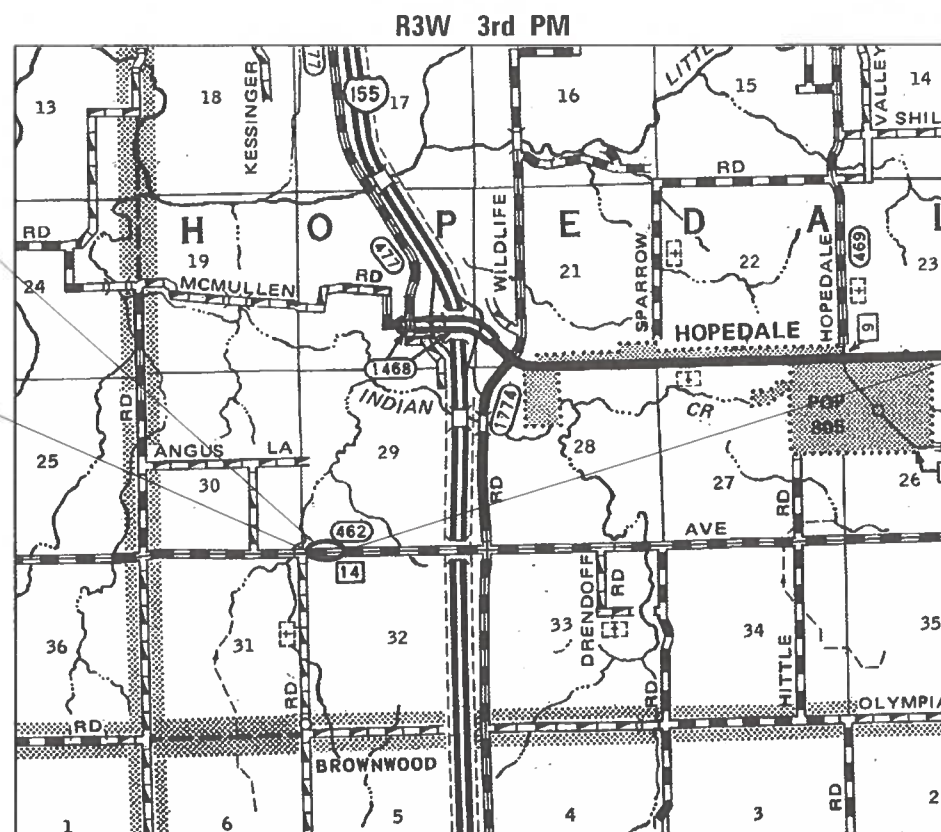
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
**PLANS FOR PROPOSED
COUNTY IMPROVEMENT**
COUNTY HIGHWAY 14 (TOBOGGAN AVENUE)
SECTION 22-00026-00-DR
TAZEWELL COUNTY

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

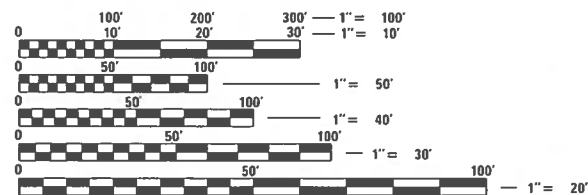


DRAINAGE IMPROVEMENTS TO THE SOUTH SIDE OF TOBOGGAN AVE. CONSISTING OF REBUILDING EXISTING DITCHES AND UPGRADING ENTRANCE CULVERTS. SLOPE STABILIZATION TO THE NORTH SIDE OF TOBOGGAN AVE. INCLUDING GRADING AND INSTALLING SOIL NAIL WALLS AND GABION BASKETS.

IMPROVEMENT BEGINS
STA. 6+80.90



IMPROVEMENT ENDS
STA. 17+56.67



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: GEORGE MERKLE, P.E.
PROJECT MANAGER: JEFFRY SPILLER, P.E.

MAURER-STUTZ
ENGINEERS SURVEYORS
3116 DRIES LN STE 100
PEORIA, ILLINOIS 61604
PH. (309) 693-7615
FAX (309) 693-7616
PROFESSIONAL DESIGN FIRM #184-005754

LOCATION MAP

ROADWAY CLASSIFICATION: MAJOR COLLECTOR
COUNTY HIGHWAY 14 (TOBOGGAN AVENUE)
ADT(2023) 625: 88% PV, 12% TRUCKS
DESIGN SPEED: 40 M.P.H.
DESIGN POLICY: 3R

GROSS LENGTH = 1075.77 FT. = 0.20 MILES
NET LENGTH = 1075.77 FT. = 0.20 MILES

COMMITMENTS: SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED January 28th, 2025 (date)
Don Kim
Tazewell County Engineer

PASSED February 4th 2025 (date)
Theresa Serris
District 4 Engineer of Local Roads & Streets

RELEASING FOR BID BASED ON LIMITED REVIEW February 18, 2025 (date)
Kevill P. Danforth, Inc.
Region 3 Engineer

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

George B. Merkle
George B. Merkle, PE
PE No. 042917
Exp. Date 11/30/2025
1/27/2025

INDEX OF SHEETS

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5-6	TYPICAL SECTIONS
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18	SLOPE STEPS DETAIL
19-30	DITCH CROSS SECTIONS
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36-40	EAST SLOPE REPAIR CROSS SECTIONS

LIST OF HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C AND D PATCHES
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS 2L, 2W DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701901-10	TRAFFIC CONTROL DEVICES

GENERAL NOTES

THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED JANUARY 1, 2022, AND THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2025, SHALL GOVERN THE CONSTRUCTION OF THE PROPOSED WORK EXCEPT AS MODIFIED BY THE DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES ON SITE PRIOR TO ANY CONSTRUCTION AND WILL BE HELD RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THEIR FACILITIES. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF THE UTILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. @ 1-800-892-0123 FOR UTILITY LOCATIONS.

THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.

ALL EXISTING SURROUNDING AREA AND PROPERTY SHALL BE PROTECTED FROM DAMAGE AND LEFT UNDAMAGED BY THE OPERATION OF THE CONTRACTOR. ANY OF THE SURROUNDING PROPERTY DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO AN EQUAL OR BETTER CONDITION THAN WHAT EXISTED PRIOR TO CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.

ADJUSTMENTS OF PROPOSED GRADES TO MATCH EXISTING ENTRANCES OR OTHER FIELD CONDITIONS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY IMMEDIATELY.

THE SUMMARY OF QUANTITIES HAS BEEN PROVIDED FOR THE CONTRACTOR'S REFERENCE. CONTRACTOR IS ALERTED TO THE FACT THAT THESE NUMBERS ARE ESTIMATES AND IT IS RECOMMENDED THAT THE CONTRACTOR VERIFY QUANTITIES PRIOR TO ORDERING MATERIALS.

EXCESS MATERIAL, IF NOT USED FOR OTHER ON-SITE PURPOSES, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 OF THE I.D.O.T. STANDARD SPECIFICATIONS, UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNER WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

THE WORK AREA SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.

CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED.

EROSION CONTROL IS A REQUIREMENT OF THIS PROJECT. ANY FINES OR PENALTIES LEVIED AGAINST THIS PROJECT FOR NONCOMPLIANCE WILL BE BORNE SOLELY BY THE CONTRACTOR.

PERIMETER EROSION BARRIER, TEMPORARY DITCH CHECKS, AND OTHER EROSION CONTROL ITEMS SHALL BE INSPECTED BY THE CONTRACTOR AFTER EACH RAIN EVENT AND REPAIRS SHALL BE MADE BY THE CONTRACTOR AS NEEDED.

THE FINAL 6 INCHES OF BACKFILL OR SOIL IN THE UNDERDRAIN AREAS AND THE FINAL 4 INCHES OF BACKFILL OR SOIL IN ANY OTHER RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM THE "A" HORIZON (ZERO TO 2' DEEP) OF SOIL PROFILES OF LOCAL SOILS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE EARTH EXCAVATION

PLAN ELEVATIONS

ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON N.A.V.D. 88.

ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (BORROW SITE REVIEW)
- BDE FORM 2290 (WASTE/USE AREA REVIEW)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM - D4 PI0101

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

BITUMINOUS MATERIALS RATES

Surface Type:	Residual Rate
Milled (HMA or PCC)	0.08 lb/sq ft
Existing Pavement	0.08 lb/sq ft
Fog Coat (Between Lifts)	0.08 lb/sq ft
Aggregate Base Course	0.25 lb/sq ft

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

The Following HMA Mixture Requirements Are Applicable For This Project

Location(s):	Private Entrances
Mixture Use(s):	HMA Surface Course
PG:	PG 58-28
Design Air Voids:	4.0% @ N=50
Mixture Composition:	IL-9.5
Friction Aggregate:	Mix "C"
Mixture Weight:	112.0 lb/sq yd/in
Quality Management Program:	QC/QA
Sublot Size:	N/A
Material Transfer Device(Required?)	No

- NOTE:
- 1) INDIVIDUAL LIFT THICKNESS OF EACH MIX TYPE WILL BE NO LESS THAN 3 TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 TIMES NOMINAL MAXIMUM AGGREGATE SIZE, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 - 2) FOR DESIGN PURPOSES, MIXTURE WEIGHT FOR ALL MIXES IS DETERMINED TO BE 112.0 LBS/S.Y./IN., UNLESS OTHERWISE NOTED.

COMMITMENTS

1) DUE TO THE POTENTIAL PRESENCE OF ENDANGERED BATS, TREES THREE (3) INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT WILL NOT BE CLEARED BETWEEN APRIL 1 AND SEPTEMBER 30.

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**TAZEWELL COUNTY
HIGHWAY DEPARTMENT**

**TOBOGGAN AVENUE EMBANKMENT STABILITY
INDEX, HIGHWAY STANDARDS, & GENERAL NOTES**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22-00026-00-DR	TAZEWELL	40	2

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	133
20200100	EARTH EXCAVATION	CU YD	585
20800150	TRENCH BACKFILL	CU YD	56
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	2,960
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	17
28000305	TEMPORARY DITCH CHECKS	FOOT	250
28000400	PERIMETER EROSION BARRIER	FOOT	258
28000500	INLET AND PIPE PROTECTION	EACH	5
28200200	FILTER FABRIC	SQ YD	408
28400100	GABIONS	CU YD	243
44201721	CLASS D PATCHES, TYPE III, 6 INCH	SQ YD	61
48101200	AGGREGATE SHOULDERS, TYPE B	TON	14
50105220	PIPE CULVERT REMOVAL	FOOT	145
54262718	METAL FLARED END SECTIONS 18"	EACH	6

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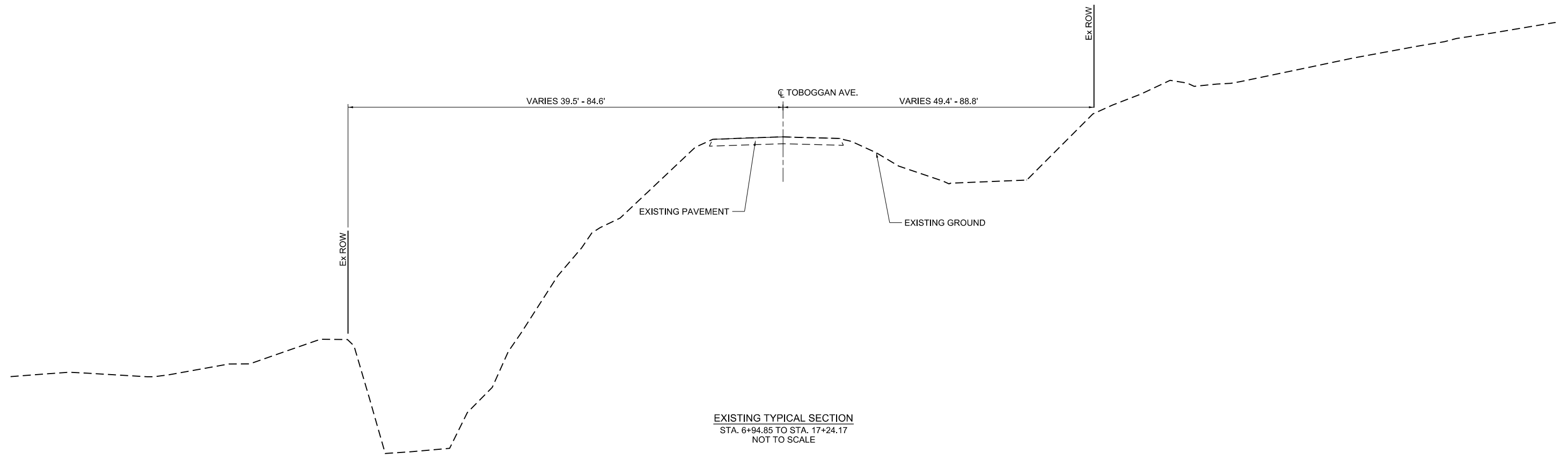
CODE NO.	ITEM	UNIT	TOTAL QUANTITY
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	48
542D1063	PIPE CULVERTS, CLASS D, TYPE 2 18"	FOOT	97
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	2
60108200	PIPE UNDERDRAINS 6" (SPECIAL)	FOOT	217
60108206	PIPE UNDERDRAINS, TYPE 2, 6"	FOOT	789
67100100	MOBILIZATION	L SUM	1
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
XX006343	SEEDING (COMPLETE)	SQ YD	2,960
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1
*	SLOPE STABILITY SYSTEM	FOOT	246
*	SPECIALTY ITEMS		

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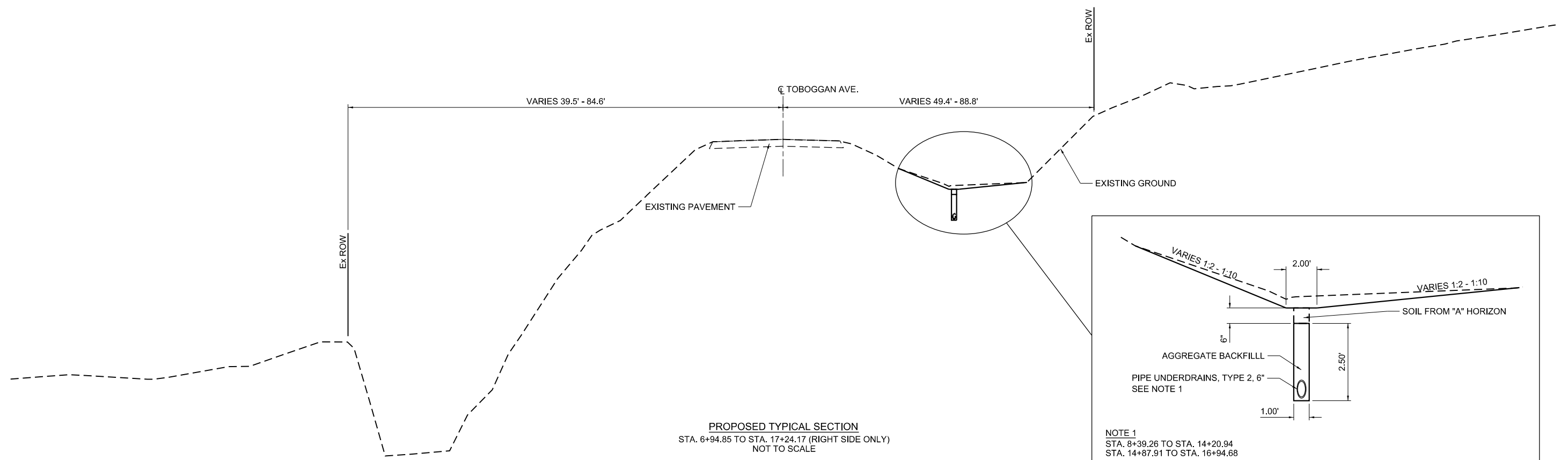
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ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

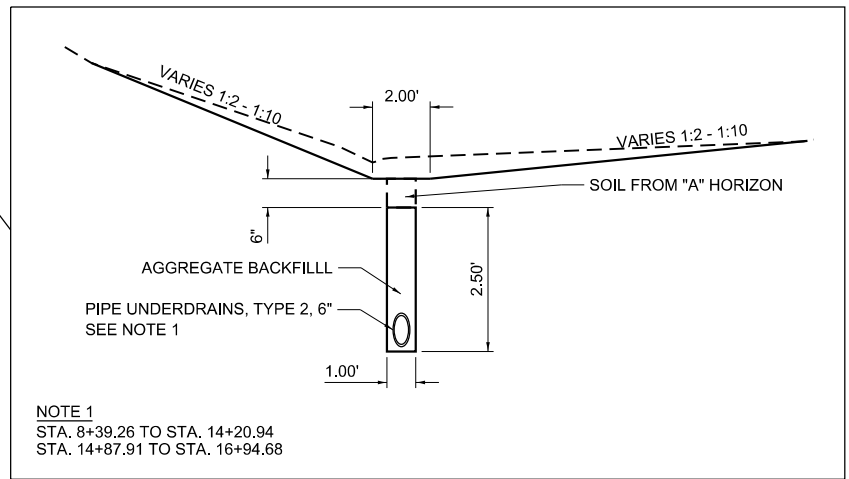
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EXISTING TYPICAL SECTION
 STA. 6+94.85 TO STA. 17+24.17
 NOT TO SCALE



PROPOSED TYPICAL SECTION
 STA. 6+94.85 TO STA. 17+24.17 (RIGHT SIDE ONLY)
 NOT TO SCALE



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	DRAWN -	REVISED -
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PLOT DATE = 1/24/2025	DATE -	REVISED -

TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

TOBOGGAN AVENUE EMBANKMENT STABILITY
 DITCH TYPICAL SECTIONS

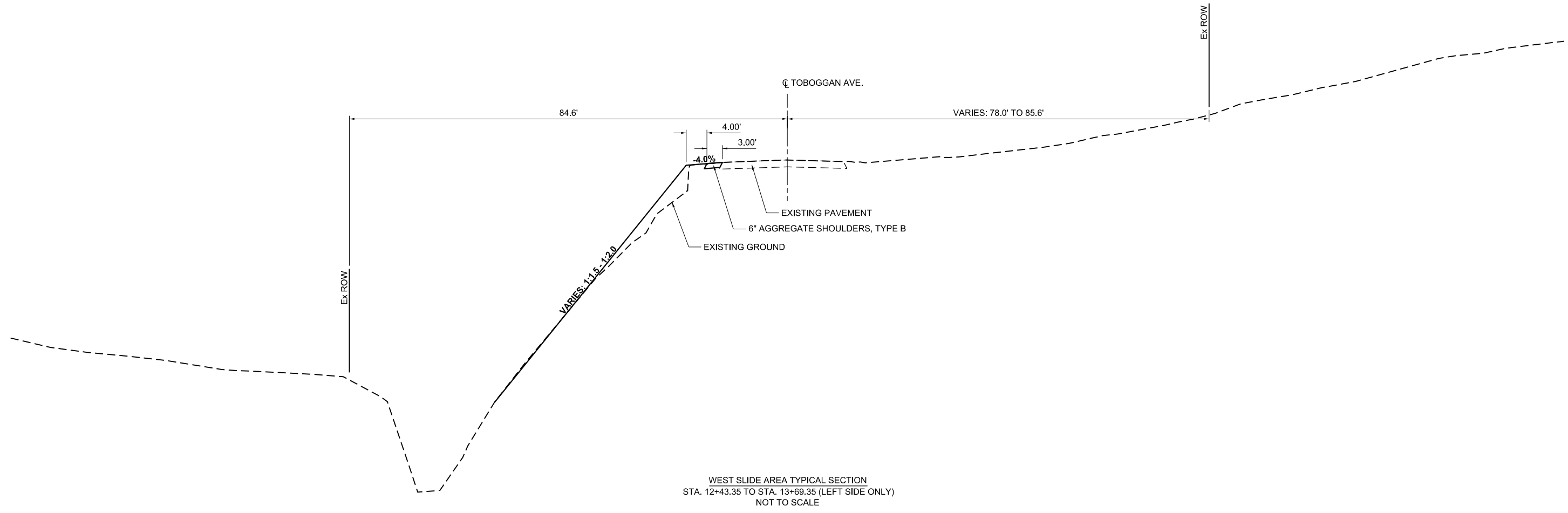
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SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22-00026-00-DR	TAZEWELL	40	5

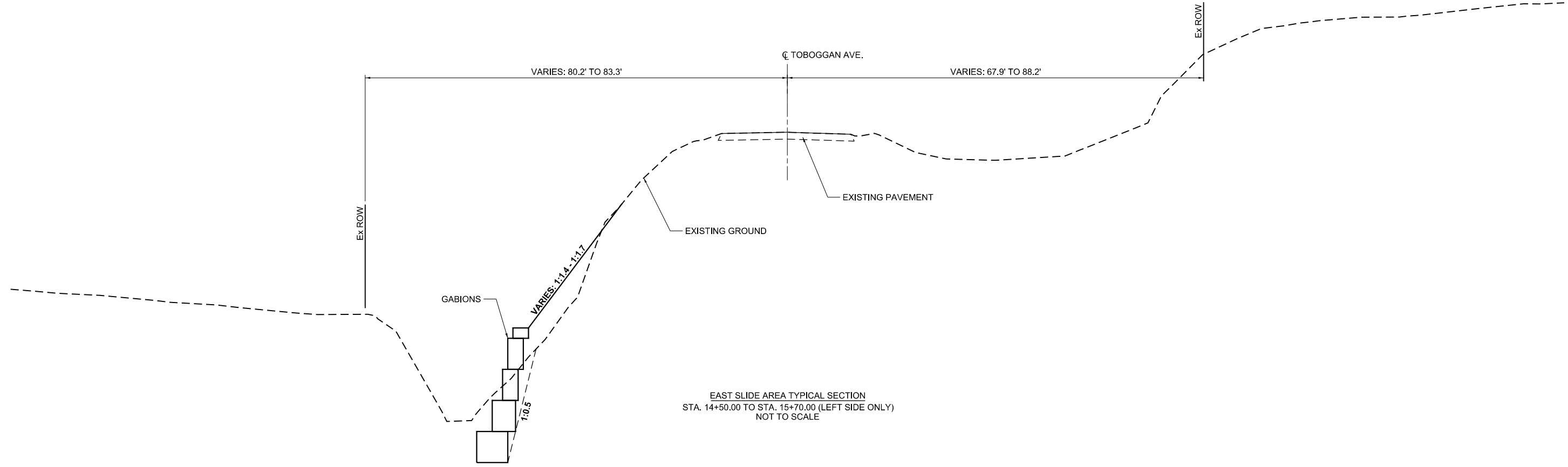
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ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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WEST SLIDE AREA TYPICAL SECTION
 STA. 12+43.35 TO STA. 13+69.35 (LEFT SIDE ONLY)
 NOT TO SCALE



EAST SLIDE AREA TYPICAL SECTION
 STA. 14+50.00 TO STA. 15+70.00 (LEFT SIDE ONLY)
 NOT TO SCALE



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PLOT DATE = 1/24/2025	CHECKED -	REVISED -
	DATE -	REVISED -

TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

TOBOGGAN AVENUE EMBANKMENT STABILITY
 SLOPE REPAIR TYPICAL SECTIONS

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	22-00026-00-DR	TAZEWELL	40	6
CONTRACT NO.				
ILLINOIS				

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)				
LOCATION			UNIT	REMARKS
12+47.38		55.1'	LT	6.0
12+50.85		51.6'	LT	10.0
12+54.22		44.6'	LT	8.0
12+55.78		40.7'	LT	9.0
12+57.81		51.3'	LT	6.0
14+52.42		46.6'	LT	6.0
14+53.43		60.0'	LT	13.0
14+54.85		45.9'	LT	6.0
14+66.94		46.9'	LT	7.0
14+91.71		49.2'	LT	12.0
15+03.27		59.7'	LT	6.0
15+06.84		56.7'	LT	9.0
15+49.93		47.8'	LT	15.0
15+62.36		48.4'	LT	8.0
15+70.97		51.6'	LT	12.0
TOTAL			133.0	

20800150 TRENCH BACKFILL				
LOCATION			CU YD	REMARKS
8+53.34	TO	8+70.96	RT	17.9
13+00.75	TO	13+21.45	RT	24.0
16+56.41	TO	16+85.27	RT	13.8
TOTAL			55.6	

25100635 HEAVY DUTY EROSION CONTROL BLANKET				
LOCATION			SQ YD	REMARKS
6+80.90	TO	8+55.25	RT	622.1
8+68.20	TO	13+01.45	RT	1228.9
12+43.35	TO	13+69.35	LT	365.4
13+19.01	TO	14+21.14	RT	208.4
14+40.00	TO	14+50.00	LT	11.1
14+87.27	TO	16+67.09	RT	407.0
15+70.00	TO	15+80.00	LT	11.1
16+80.74	TO	17+56.67	RT	106.3
TOTAL			2960.3	

28000250 TEMPORARY EROSION CONTROL SEEDING				
LOCATION			POUND	REMARKS
12+43.35	TO	13+69.35	LT	11.7
14+50.00	TO	15+70.00	LT	5.1
TOTAL			16.7	

28000305 TEMPORARY DITCH CHECKS				
LOCATION			FOOT	REMARKS
7+11.83	TO	8+30.83	RT	80.0
9+47.98	TO	12+57.98	RT	60.0
13+67.54	TO	14+00.54	RT	20.0
15+07.91	TO	16+27.91	RT	70.0
17+05.68	TO	17+16.68	RT	20.0
TOTAL			250.0	

28000400 PERIMETER EROSION BARRIER				
LOCATION			FOOT	REMARKS
12+43.09	TO	13+67.38	LT	137.5
14+50.00	TO	15+70.00	LT	120.0
TOTAL			257.5	

28000500 INLET AND PIPE PROTECTION				
LOCATION			EACH	REMARKS
6+90.60		26.5'	RT	1.0
8+85.98		29.7'	RT	1.0
11+15.22		27.3'	RT	1.0
13+34.04		36.0'	RT	1.0
16+45.69		26.3'	RT	1.0
TOTAL			5.0	

28200200 FILTER FABRIC				
LOCATION			SQ YD	REMARKS
14+50.00	TO	15+70.00	LT	408.3
TOTAL			408.3	

44201721 CLASS D PATCHES, TYPE III, 6 INCH				
LOCATION			SQ YD	REMARKS
8+53.34	TO	8+70.96	RT	16.5
13+00.75	TO	13+21.45	RT	21.3
16+56.41	TO	16+85.27	RT	23.5
TOTAL			61.3	

48101200 AGGREGATE SHOULDERS, TYPE B				
LOCATION			TON	REMARKS
12+43.35	TO	13+69.35	LT	14.3
TOTAL			14.3	

50105220 PIPE CULVERT REMOVAL				
LOCATION			FOOT	REMARKS
8+39.26	TO	8+85.98	RT	47.0
12+84.60	TO	13+34.54	RT	50.0
16+46.69	TO	16+94.68	RT	48.0
TOTAL			145.0	

54262718 METAL FLARED END SECTIONS 18"				
LOCATION			EACH	REMARKS
8+39.26		30.9'	RT	1.0
8+85.98		29.7'	RT	1.0
12+84.60		36.3'	RT	1.0
13+34.54		36.0'	RT	1.0
16+46.69		26.2'	RT	1.0
16+94.68		23.7'	RT	1.0
TOTAL			6.0	

542D0223 PIPE CULVERTS, CLASS D, TYPE 1 18"				
LOCATION			FOOT	REMARKS
16+46.69	TO	16+94.68	RT	48.0
TOTAL			48.0	

542D1063 PIPE CULVERTS, CLASS D, TYPE 2 18"				
LOCATION			FOOT	REMARKS
8+39.26	TO	8+85.98	RT	47.0
12+84.60	TO	13+34.54	RT	50.0
TOTAL			97.0	

60100060 CONCRETE HEADWALLS FOR PIPE DRAINS				
LOCATION			EACH	REMARKS
ENTIRE PROJECT			2.0	SEE SPECIAL PROVISIONS
TOTAL			2.0	

60108200 PIPE UNDERDRAINS 6" (SPECIAL)				
LOCATION			FOOT	REMARKS
ENTIRE PROJECT			216.6	UNDERDRAIN OUTLETS
TOTAL			216.6	

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PLOT SCALE = 0.167' / in.	DRAWN -	REVISED -
PLOT DATE = 1/24/2025	CHECKED -	REVISED -
	DATE -	REVISED -

**TAZEWELL COUNTY
HIGHWAY DEPARTMENT**

**TOBOGGAN AVENUE EMBANKMENT STABILITY
SCHEDULE OF QUANTITIES**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22-00026-00-DR	TAZEWELL	40	7

60108206 PIPE UNDERDRAINS, TYPE 2, 6"					
LOCATION			FOOT	REMARKS	
8+39.26	TO	14+20.94	RT	581.8	UNDER DITCHES
14+87.91	TO	16+94.68	RT	207.4	UNDER DITCHES
TOTAL			789.2		

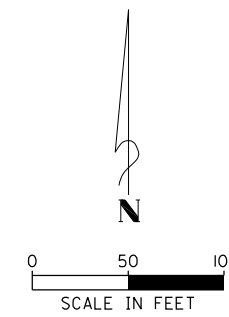
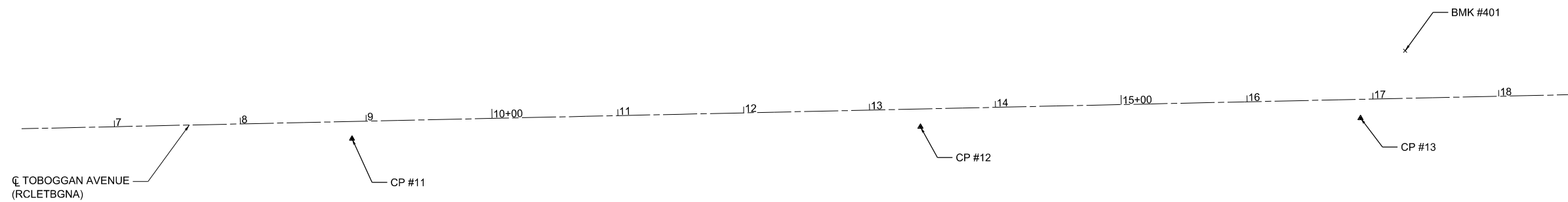
XX006343 SEEDING (COMPLETE)					
LOCATION			SQ YD	REMARKS	
6+80.90	TO	8+55.25	RT	622.1	
8+66.18	TO	13+02.12	RT	1228.9	
12+43.35	TO	13+69.35	LT	365.4	
13+16.80	TO	14+21.14	RT	208.4	
14+40.00	TO	14+50.00	LT	11.1	
14+87.27	TO	16+69.47	RT	407.0	
15+70.00	TO	15+80.00	LT	11.1	
16+80.74	TO	17+56.67	RT	106.3	
TOTAL			2960.3		

SLOPE STABILITY SYSTEM					
LOCATION			FOOT	REMARKS	
12+43.35	TO	13+69.35	LT	126.0	APPROX. 2016.0 SQ FT
14+50.00	TO	15+70.00	LT	120.0	APPROX. 2634.0 SQ FT
TOTAL			246.0		

LOCATION	EARTH EXCAVATION	EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT (FILL)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
TOBOGGAN AVENUE	CU YD	CU YD	CU YD	CU YD
TOBOGGAN AVE - DITCH AREAS				
STA. 6+94.85 - STA. 17+24.17	206.24	154.68	13.52	141.16
TOBOGGAN AVE - SLIDE AREAS				
STA. 12+43.35 - STA. 13+69.35	57.58	43.19	79.97	-36.78
STA. 14+50.00 - STA. 15+70.00	320.11	240.08	159.38	80.70
TOTAL	583.93	437.94	252.86	185.09

EARTHWORK SUMMARY			
20200100	EARTH EXCAVATION	585	CU YD

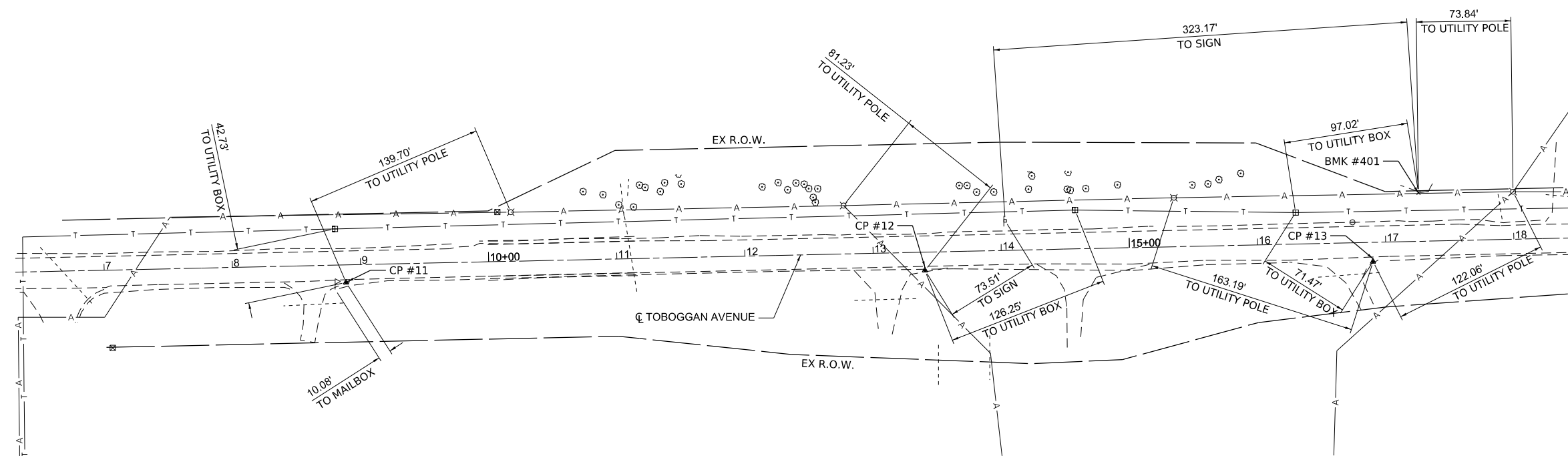
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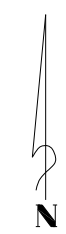
HORIZONTAL CONTROL POINTS						
POINT #	NORTHING	EASTING	CHAIN	STATION	OFFSET	DESCRIPTION
11	1363827.935	2489460.691	RCLETBGNA	8+88.45	13.8' RT	PK NAIL IN E. E.O.P. OF DRIVEWAY
12	1363837.384	2489912.342	RCLETBGNA	13+40.20	14.2' RT	PK NAIL IN E. E.O.P. OF DRIVEWAY
13	1363844.314	2490261.913	RCLETBGNA	16+89.83	15.0' RT	PK NAIL IN E. E.O.P. OF DRIVEWAY
BENCHMARK						
DESIGNATION	ELEVATION	STATION	OFFSET	DESCRIPTION		
BMK #401	610.95	17+26.40	37.8' LT	S.W. CORNER OF HEAD WALL, N. SIDE OF ROAD		

Alignment Name: **RCLETBGNA**

Element:	Station	Northing	Easting
START	() 626.123 R1	1363835.929	2489198.129
END	() 1865.486 R1	1363863.152	2490437.193
Tangential Direction:		N88.74°E	
Tangential Length:		1239.363	



BMK #401, CP #11, CP #12, CP #13
NOT TO SCALE



MODEL: Default
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	DATE -	REVISED -

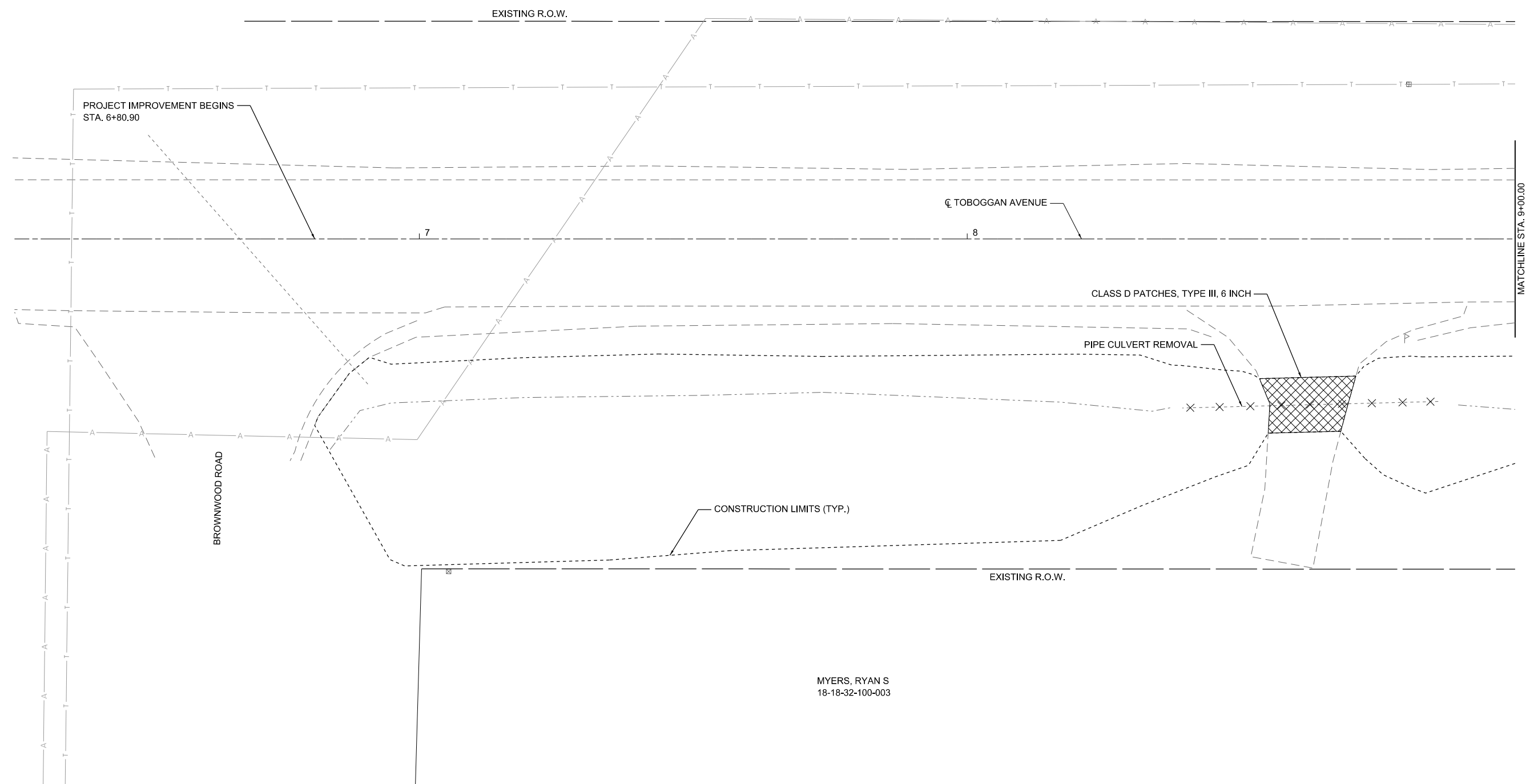
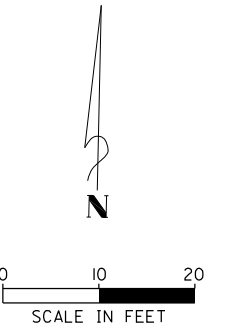
TAZEWELL COUNTY
HIGHWAY DEPARTMENT

TOBOGGAN AVENUE EMBANKMENT STABILITY
ALIGNMENT, TIES, AND BENCHMARKS

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. TO STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22-00026-00-DR	TAZEWELL	40	9

CANNOPY, ALAN & BARBARA
18-18-29-300-004



MYERS, RYAN S
18-18-32-100-003

MODEL: SHEET: PLOT: TBSGA - Plan 1-1
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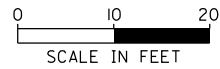
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	DATE -	REVISED -

**TAZEWELL COUNTY
HIGHWAY DEPARTMENT**

**TOBOGGAN AVENUE EMBANKMENT STABILITY
REMOVAL PLAN**

SCALE: 1" = 10' SHEET 1 OF 4 SHEETS STA. 6+26.12 TO STA. 9+00.00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22-00026-00-DR	TAZEWELL	40	10



CANNOPY, ALAN & BARBARA
18-18-29-300-004

EXISTING R.O.W.

TRIBUTARY TO INDIAN CREEK

EXISTING R.O.W.

MATCHLINE STA. 9+00.00

10+00

11

MATCHLINE STA. 12+00.00

TOBOGGAN AVENUE

CONSTRUCTION LIMITS (TYP.)

EXISTING R.O.W.

EXISTING R.O.W.

MYERS, RYAN S
18-18-32-100-003

GIBSON, JEREMY
18-18-32-100-010

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MAURER-STUTZ
ENGINEERS SURVEYORS

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PLOT DATE =	1/24/2025

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

TAZEWELL COUNTY
HIGHWAY DEPARTMENT

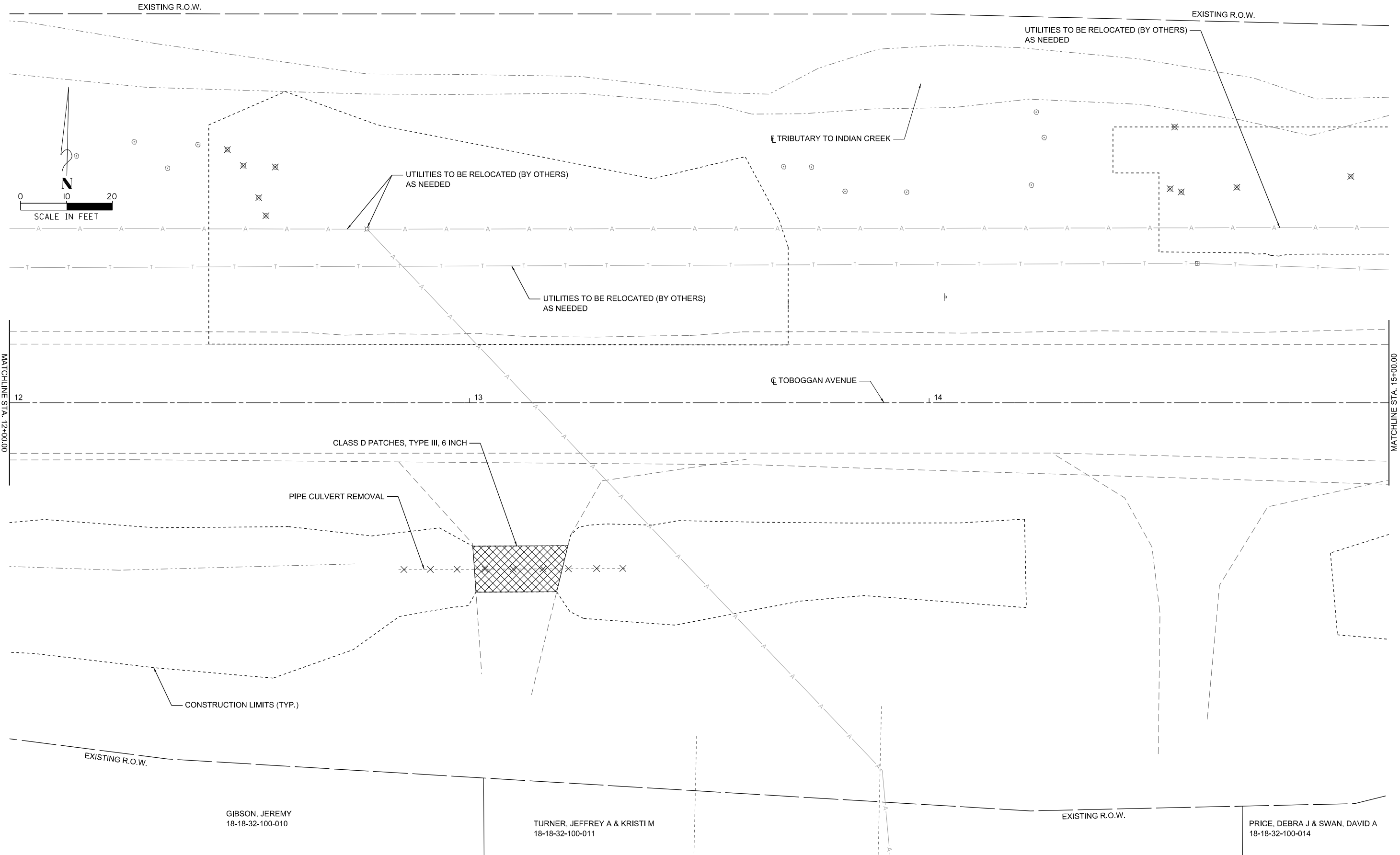
TOBOGGAN AVENUE EMBANKMENT STABILITY
REMOVAL PLAN

SCALE: 1" = 10' SHEET 2 OF 4 SHEETS STA. 9+00.00 TO STA. 12+00.00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22-00026-00-DR	TAZEWELL	40	11

LEGEND
 ☒ TREE REMOVAL (6 TO 15 UNITS DIAMETER)

CANNOPY, ALAN & BARBARA
 18-18-29-300-004



GIBSON, JEREMY
 18-18-32-100-010

TURNER, JEFFREY A & KRISTI M
 18-18-32-100-011

PRICE, DEBRA J & SWAN, DAVID A
 18-18-32-100-014

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	DATE -	REVISED -

**TAZEWELL COUNTY
 HIGHWAY DEPARTMENT**

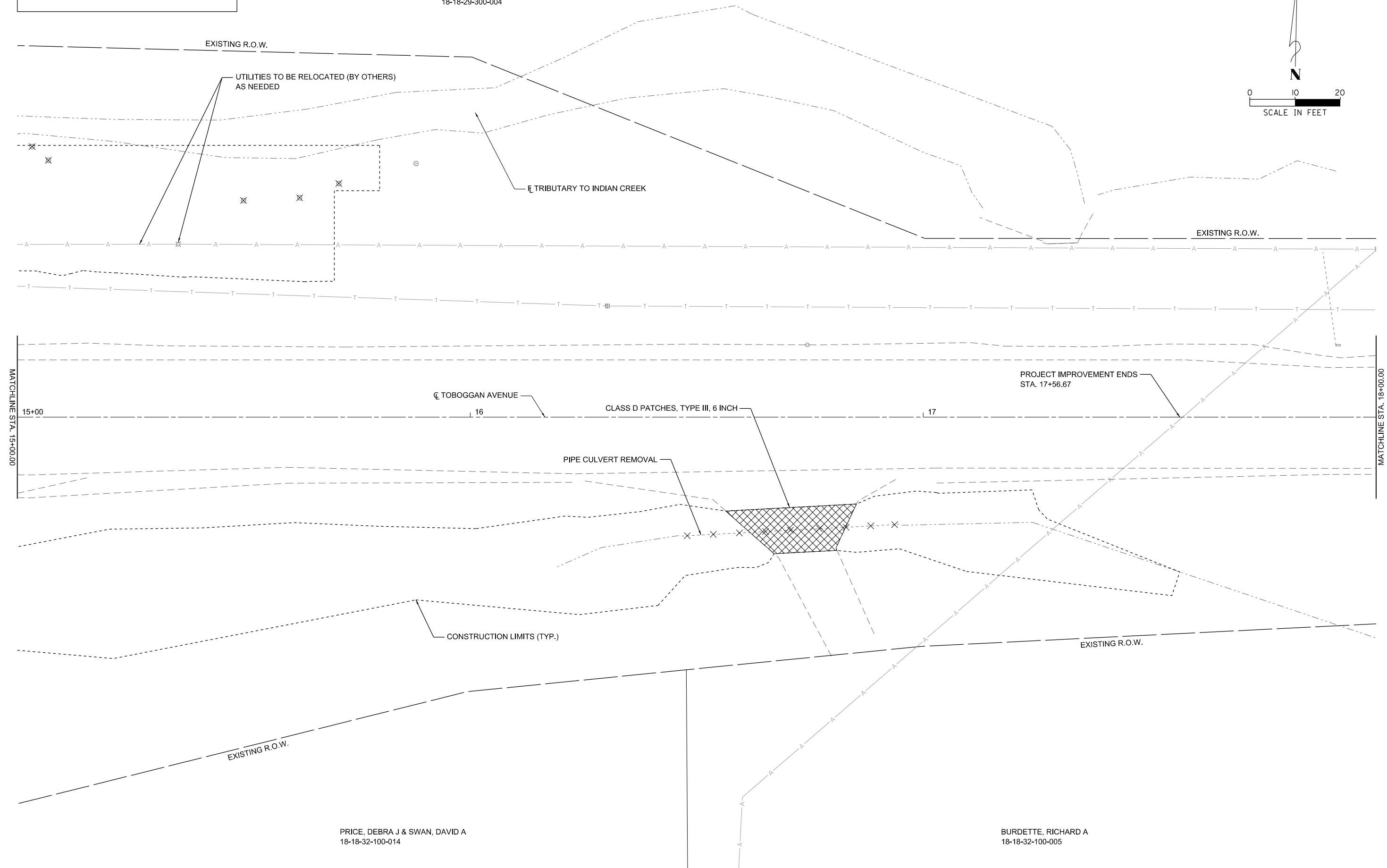
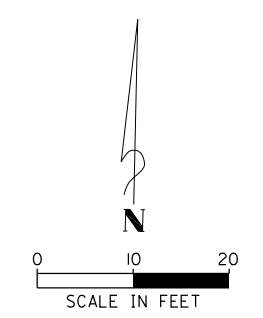
**TOBOGGAN AVENUE EMBANKMENT STABILITY
 REMOVAL PLAN**

SCALE: 1" = 10' SHEET 3 OF 4 SHEETS STA. 12+00.00 TO STA. 15+00.00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22-00026-00-DR	TAZEWELL	40	12

LEGEND
 ✕ TREE REMOVAL (6 TO 15 UNITS DIAMETER)

CANNOPY, ALAN & BARBARA
 18-18-29-300-004



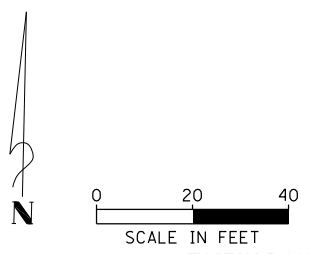
PRICE, DEBRA J & SWAN, DAVID A
 18-18-32-100-014

BURDETTE, RICHARD A
 18-18-32-100-005

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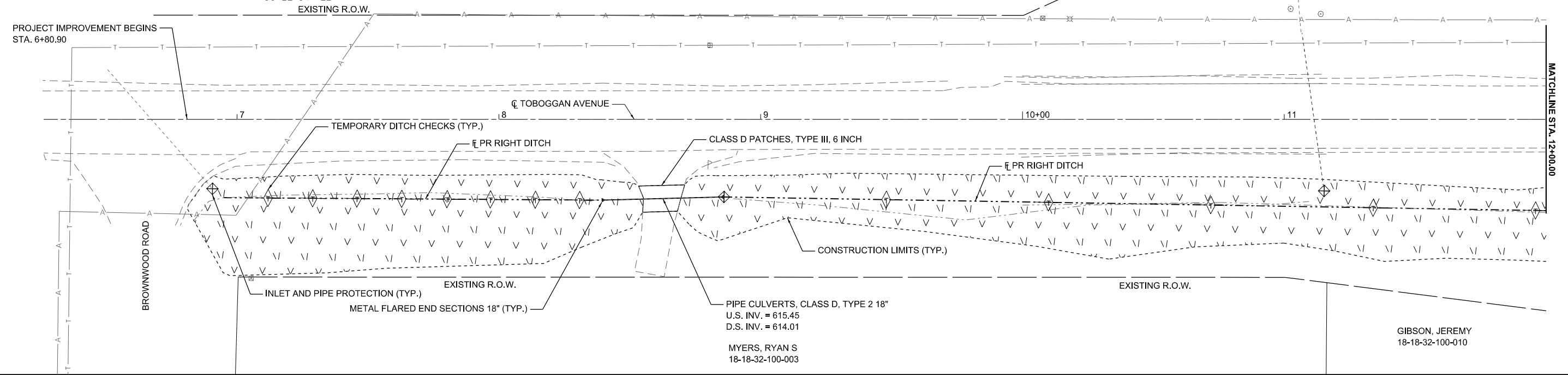
LEGEND
 HEAVY DUTY EROSION CONTROL BLANKET AND SEEDING (COMPLETE)



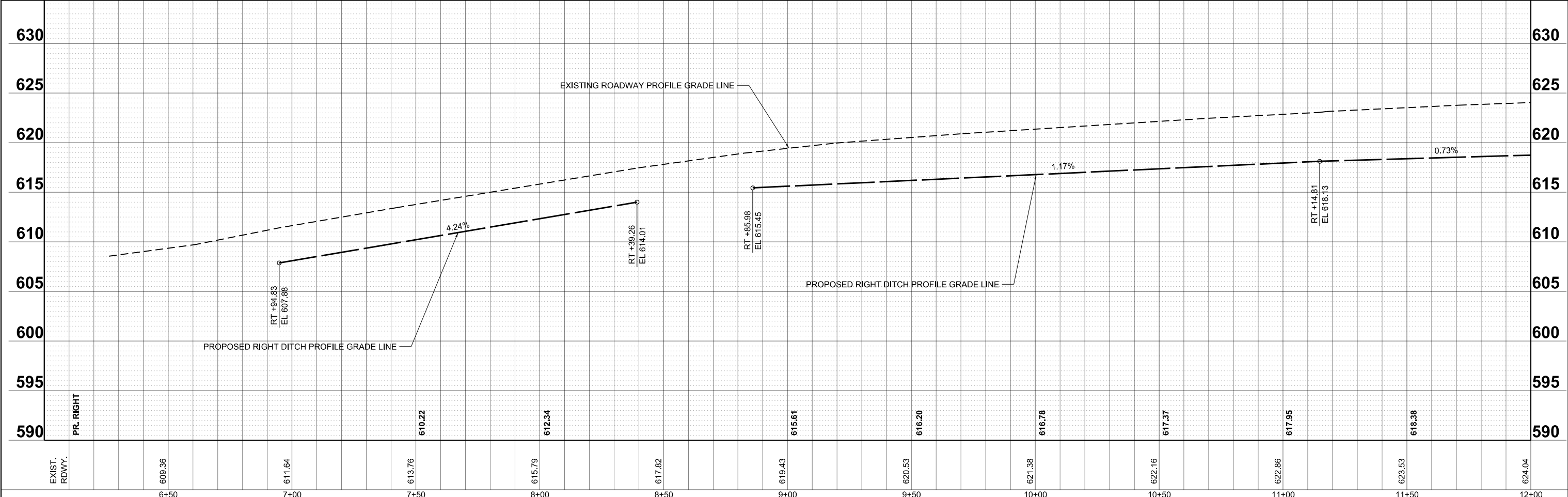
CANNOPY, ALAN & BARBARA
 18-18-29-300-004

TRIBUTARY TO INDIAN CREEK

DATE	
BY	
REVIEWED	
PLANNED	
ALIGNED	
CHECKED	
NO. _____	
NOTE BOOK	
NO. _____	
CADD FILE NAME	



DATE	
BY	
REVIEWED	
PLANNED	
GRADES CHECKED	
NO. _____	
NOTE BOOK	
NO. _____	
STRUCTURE NOTATIONS CHRD	



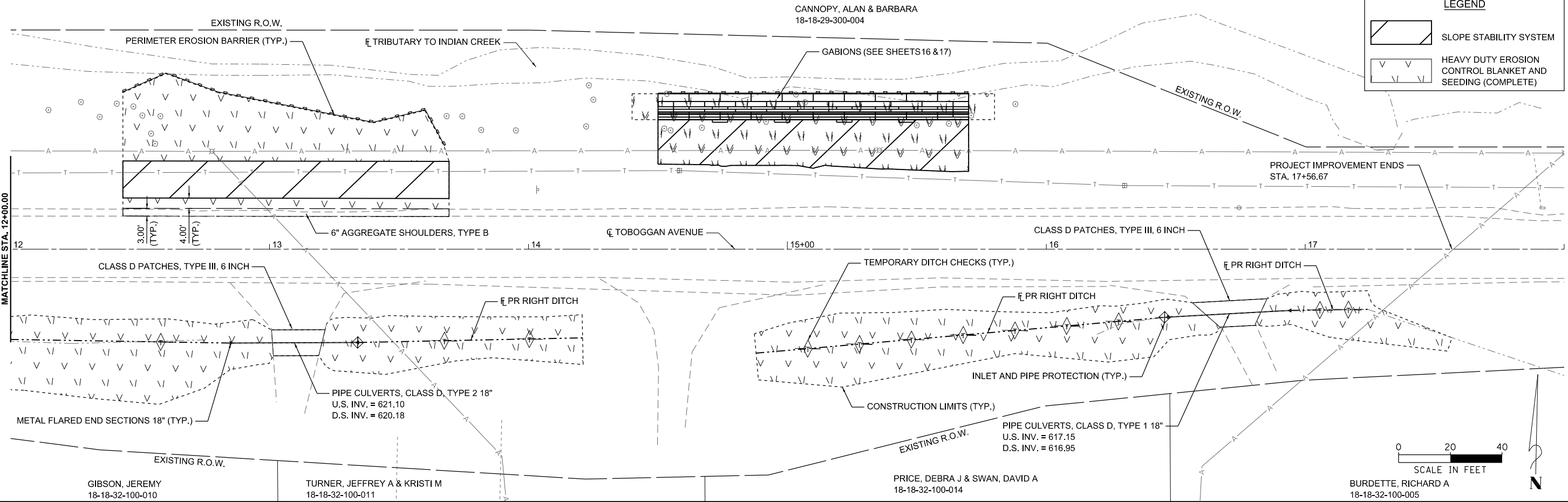
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	PLOT DATE = 1/24/2025	CHECKED -	REVISED -		SCALE: 1" = 20'	SHEET 1	OF 2 SHEETS	STA.	TO STA.		
		DATE -	REVISED -								

DATE	
BY	
REVIEWED	
PLANNED	
ALIGNED	
CHECKED	
NO. _____	
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NO. _____	

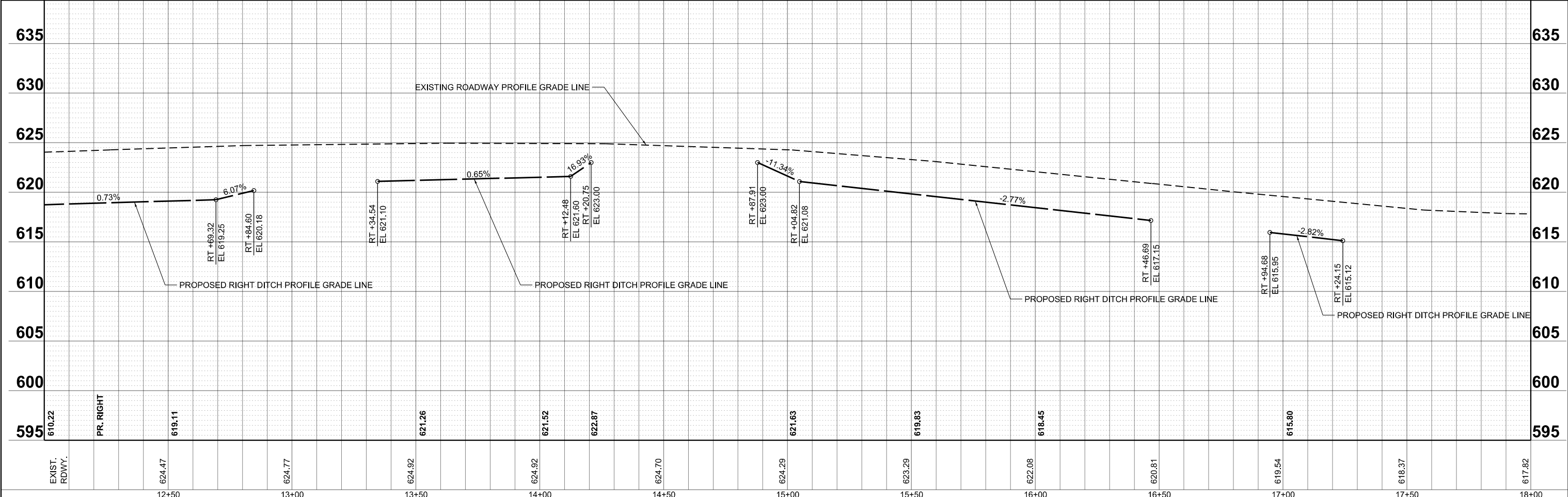
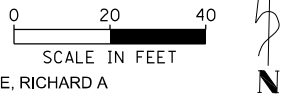
DATE	
BY	
REVIEWED	
PLANNED	
ALIGNED	
CHECKED	
NO. _____	
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NO. _____	

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 Phase II (CADD) CADD Sheets.dwg (1) - RCLTBGNA.dwg



LEGEND

- SLOPE STABILITY SYSTEM
- HEAVY DUTY EROSION CONTROL BLANKET AND SEEDING (COMPLETE)



12+50	13+00	13+50	14+00	14+50	15+00	15+50	16+00	16+50	17+00	17+50	18+00
610.22	619.11	621.26	621.52	622.87	621.63	619.83	618.45	620.81	615.80	618.37	617.82
610.22	619.11	621.26	621.52	622.87	621.63	619.83	618.45	620.81	615.80	618.37	617.82

MAURER-STUTZ
ENGINEERS SURVEYORS

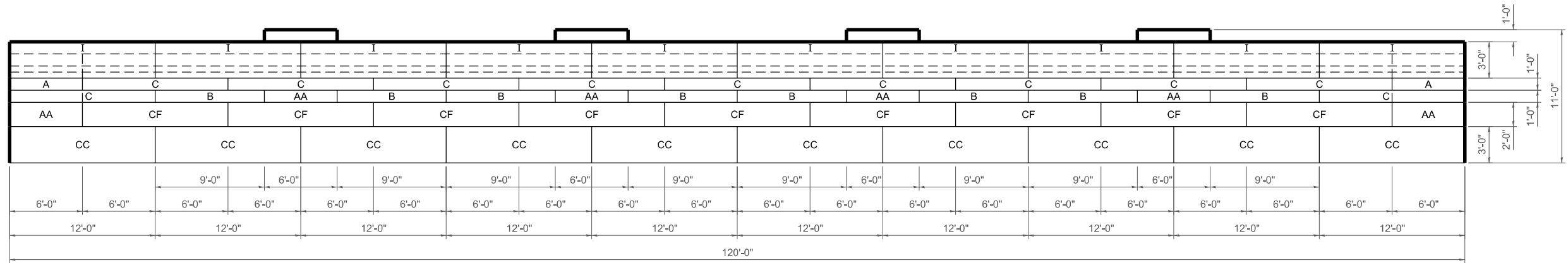
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	DATE -	REVISD -

TAZEWELL COUNTY
HIGHWAY DEPARTMENT

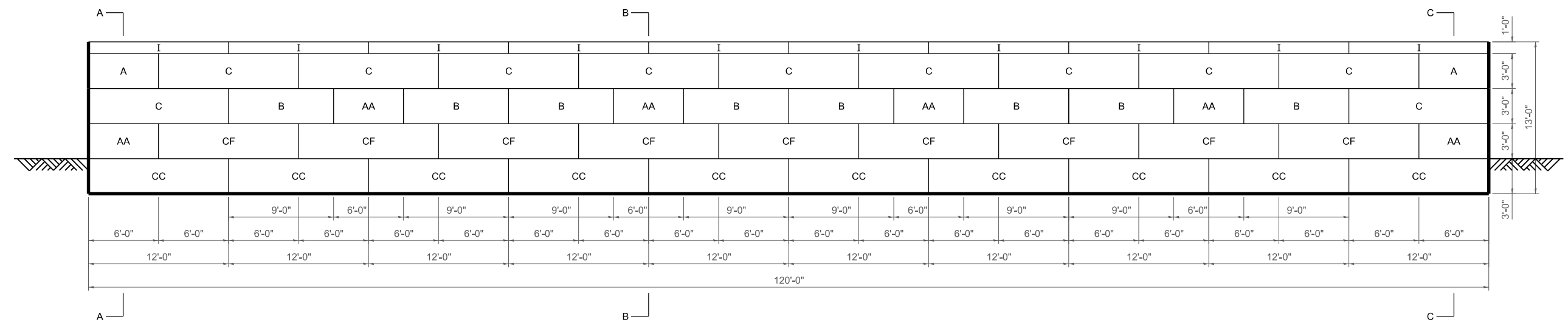
TOBOGGAN AVENUE EMBANKMENT STABILITY
PLAN AND PROFILE SHEET

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. 12+00.00 TO STA. 18+00.00

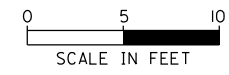
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22-00026-00-DR	TAZEWELL	40	15



TOP VIEW



FRONT VIEW



- FILTER FABRIC
- APPROX. STREAM BED

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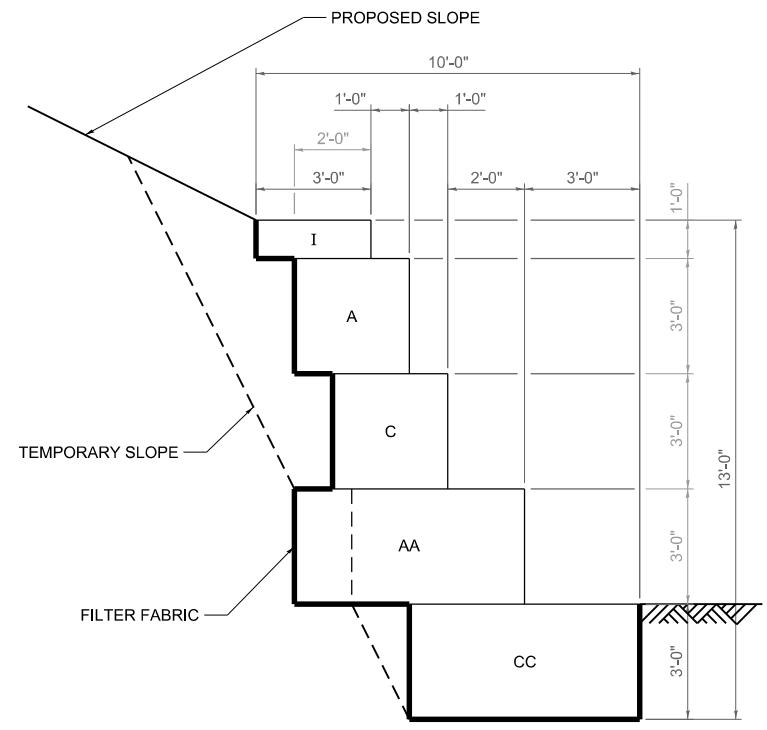
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DRAWN -		REVISOR -	
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PLOT DATE	= 1/24/2025	DATE -	REVISED -

TAZEWELL COUNTY
HIGHWAY DEPARTMENT

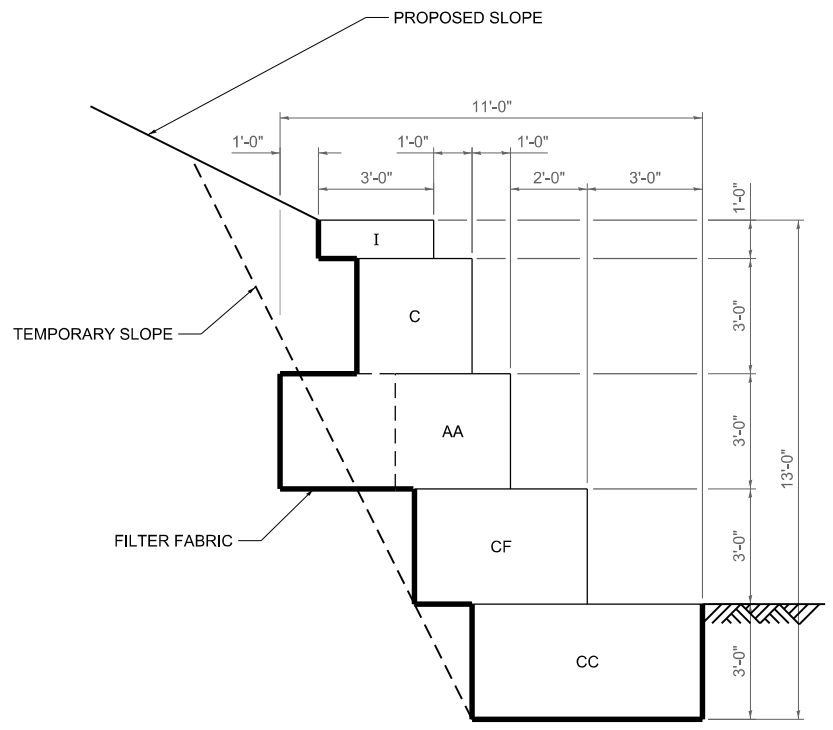
TOBOGGAN AVENUE EMBANKMENT STABILITY
GABION BASKET DETAIL

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

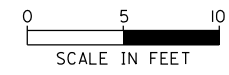
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22-00026-00-DR	TAZEWELL	40	16



SECTION A-A AND C-C
NOT TO SCALE



SECTION B-B
NOT TO SCALE



- FILTER FABRIC
- APPROX. STREAM BED

28400100		GABIONS				
GABION BASKET STANDARD SIZE						
CODE	LENGTH	WIDTH	HEIGHT	CUBIC YARDS	QUANTITY	TTL CU YDS
A	6'-0"	3'-0"	3'-0"	2	2	4.0
B	9'-0"	3'-0"	3'-0"	3	8	24.0
C	12'-0"	3'-0"	3'-0"	4	11	44.0
I	12'-0"	3'-0"	1'-0"	1.33	10	13.3
AA	6'-0"	6'-0"	3'-0"	4	6	24.0
CC	12'-0"	6'-0"	3'-0"	8	10	80.0
CF	12'-0"	4'-6"	3'-0"	6	9	54.0
TOTAL CU YDS						243.3

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TAZEWELL COUNTY
HIGHWAY DEPARTMENT

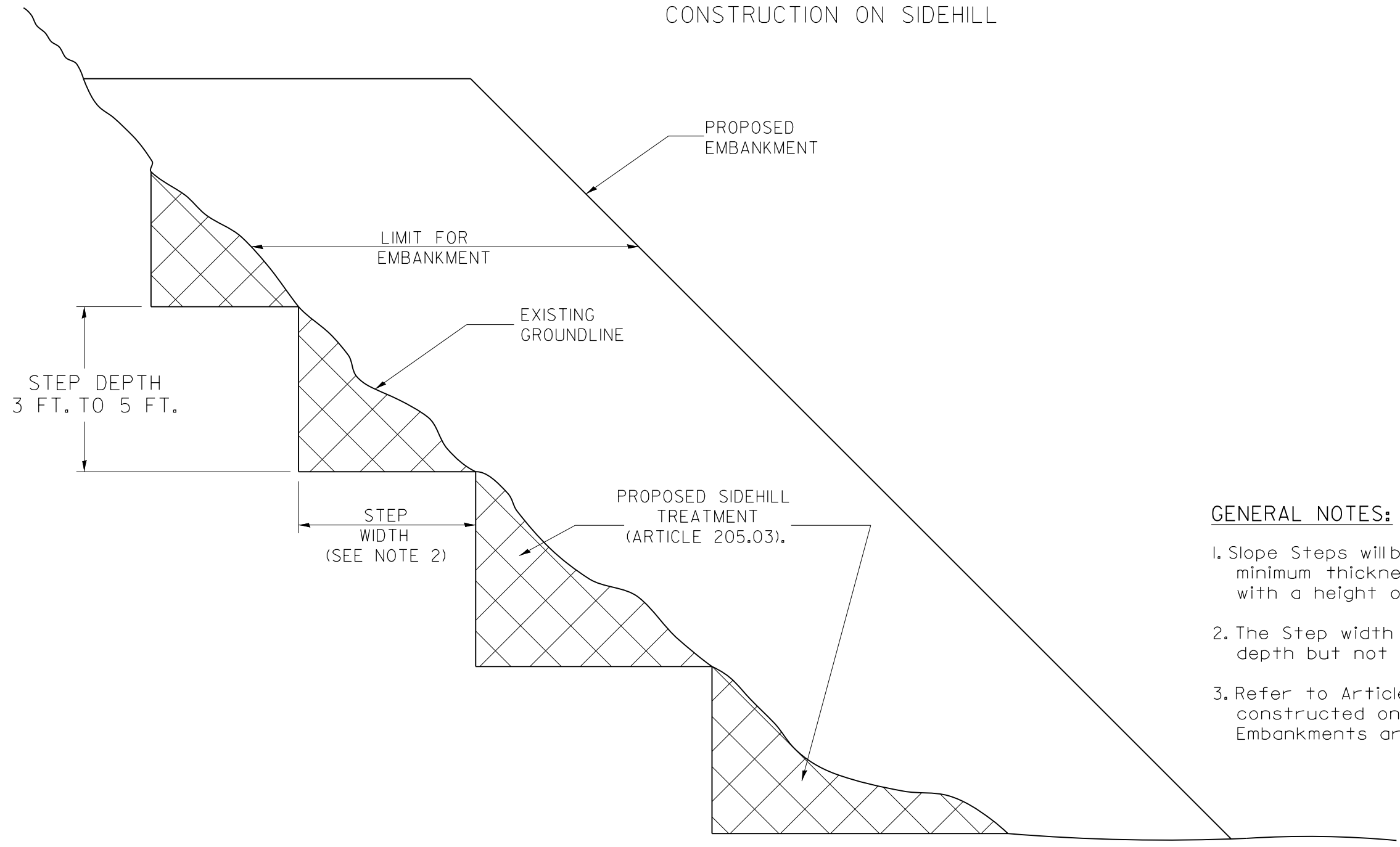
TOBOGGAN AVENUE EMBANKMENT STABILITY
GABION BASKET DETAIL

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22-00026-00-DR	TAZEWELL	40	17

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL

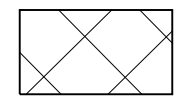


GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "sliver fills" and on all fills with a height of 10 feet or greater.
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

DESIGNER NOTE:
 1. EACH PROJECT SHOULD BE REVIEWED INDEPENDENTLY FOR TREATMENT REQUIRED.
 2. REFER TO THIS DETAIL WITH NOTE ON APPLICABLE TYPICAL SECTIONS.

REPLACEMENT MATERIAL:



STANDARD EMBANKMENT
(IN ACCORDANCE WITH
205 OF THE STANDARD SPECIFICATION).

All dimensions are in inches (millimeters) unless otherwise noted.

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE BOX, REVISED GENERAL NOTES.	T.P.				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SLOPE STEPS DETAIL	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-16-06	REVISED TO 2007 SPEC.	M.A.						22-00026-00-DR	TAZEWELL	40	18	
5-30-18	MINOR CORRECTION	R.D.						CONTRACT NO.				
										FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

NOT TO SCALE

CADD STD. 205001-D4

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

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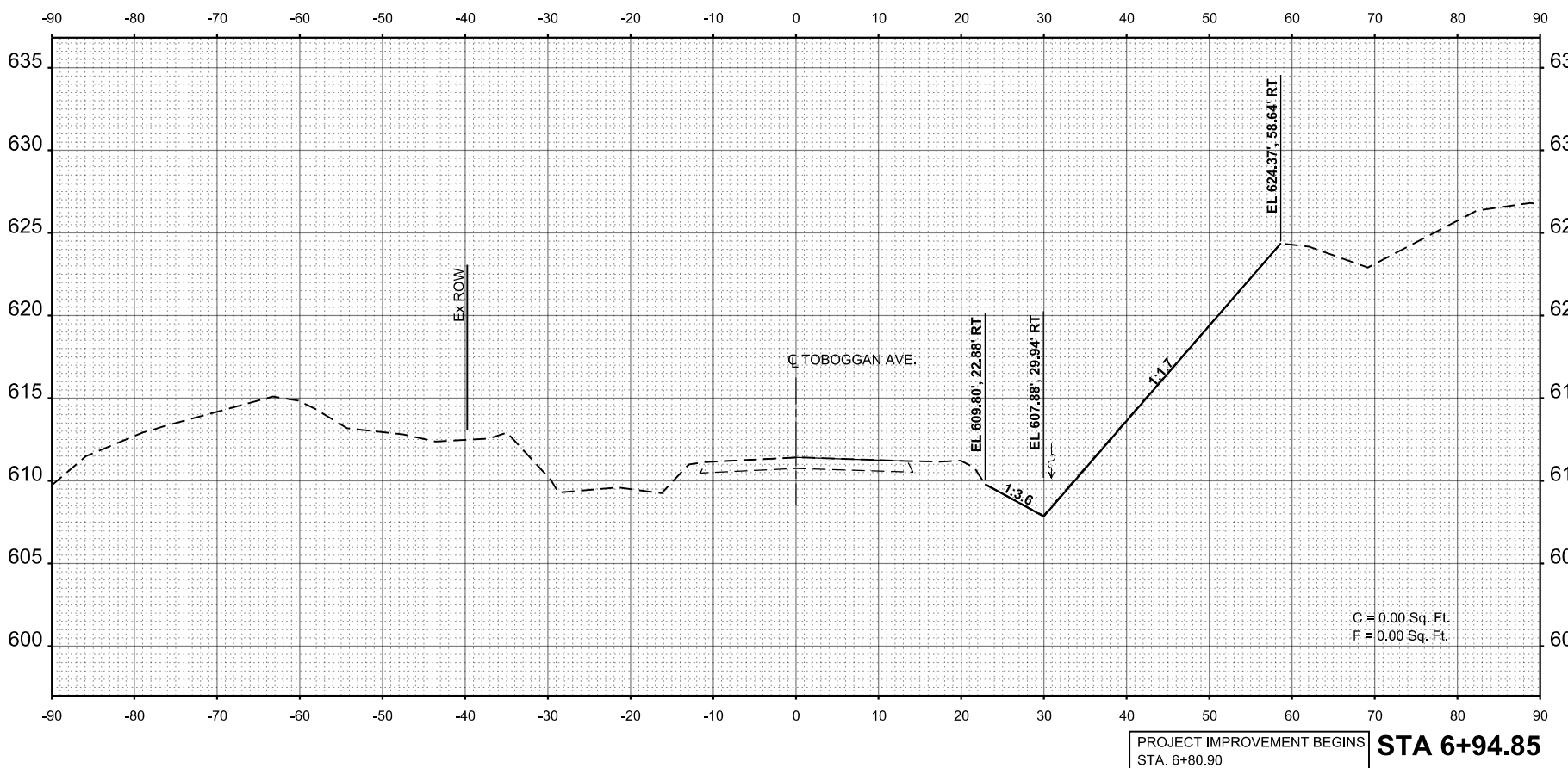
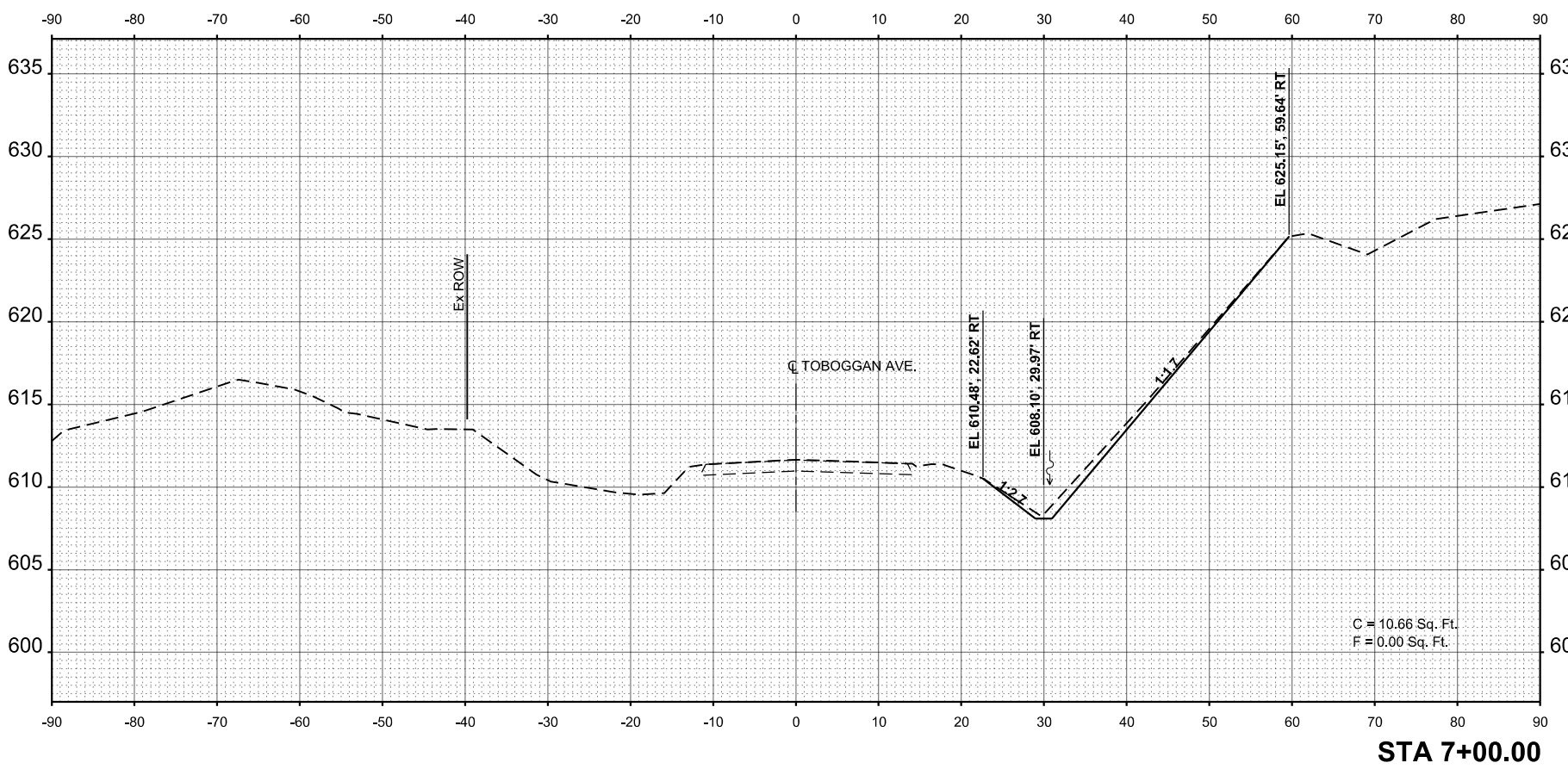
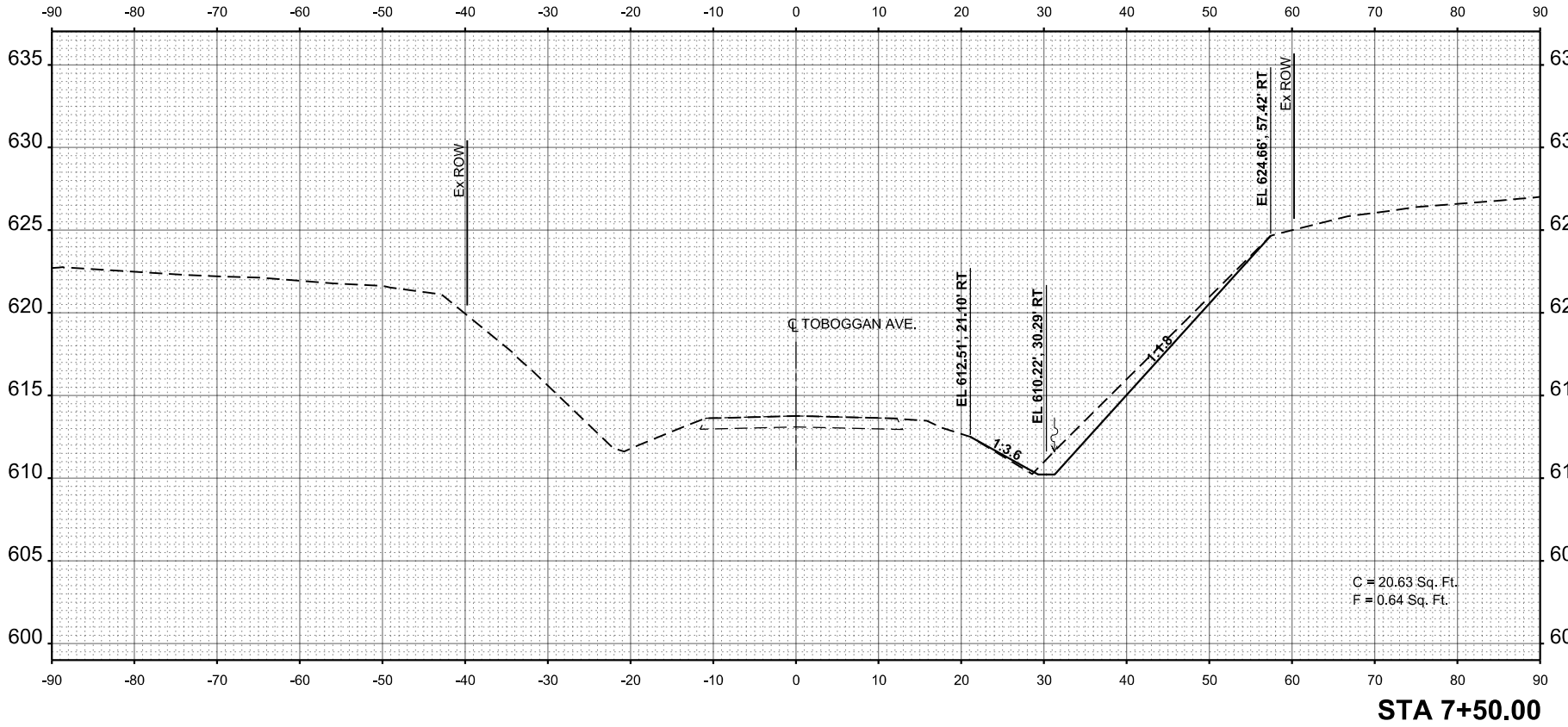
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	DATE -

REVISED -	REVISED -
REVISED -	REVISED -
REVISED -	REVISED -

TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

TOBOGGAN AVENUE EMBANKMENT STABILITY
 DITCH CROSS SECTIONS

SECTION	COUNTY	TOTAL SHEET NO.
22-00025-00-DR	TAZEWELL	40
		19



PROJECT IMPROVEMENT BEGINS
 STA. 6+80.90

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
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	AREAS _____		
NO. _____	AREAS CHECKED _____		

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 DATE = 1/24/2025

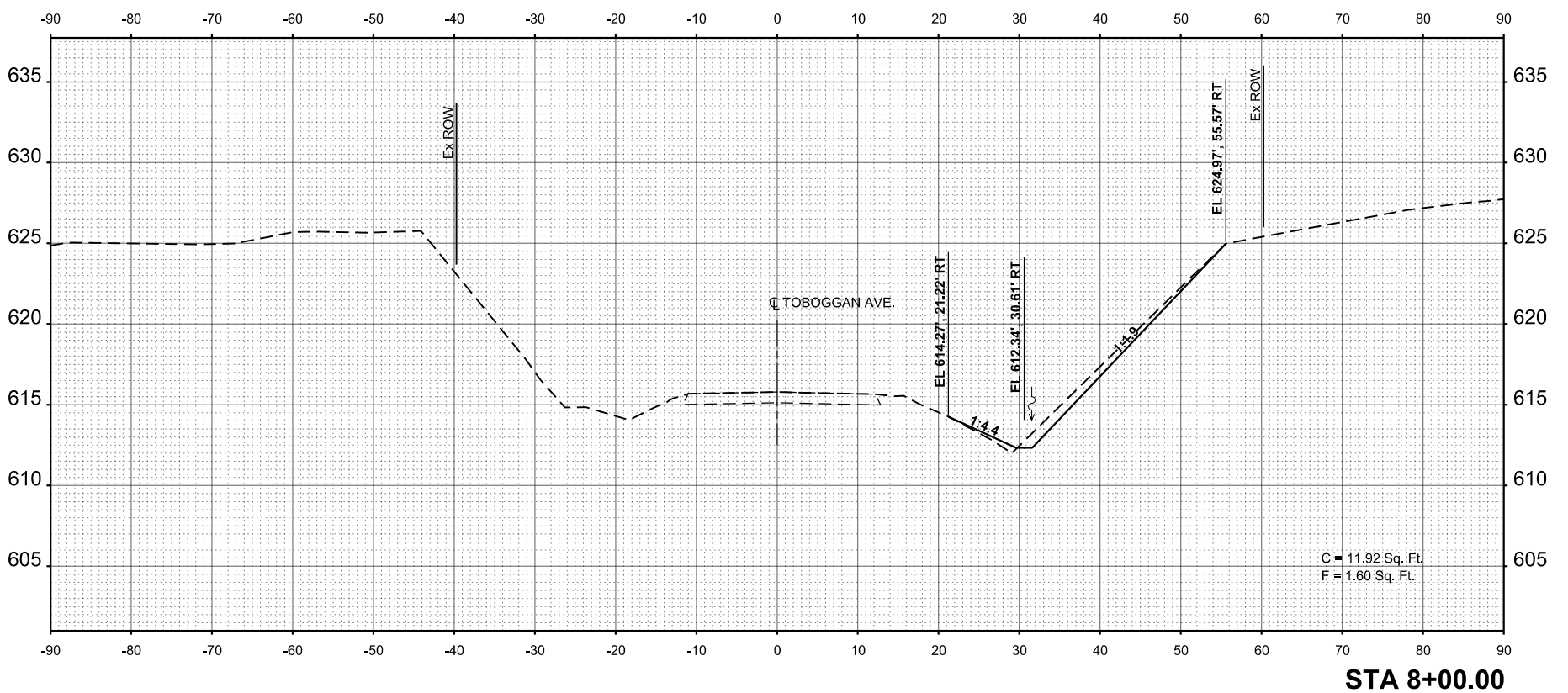
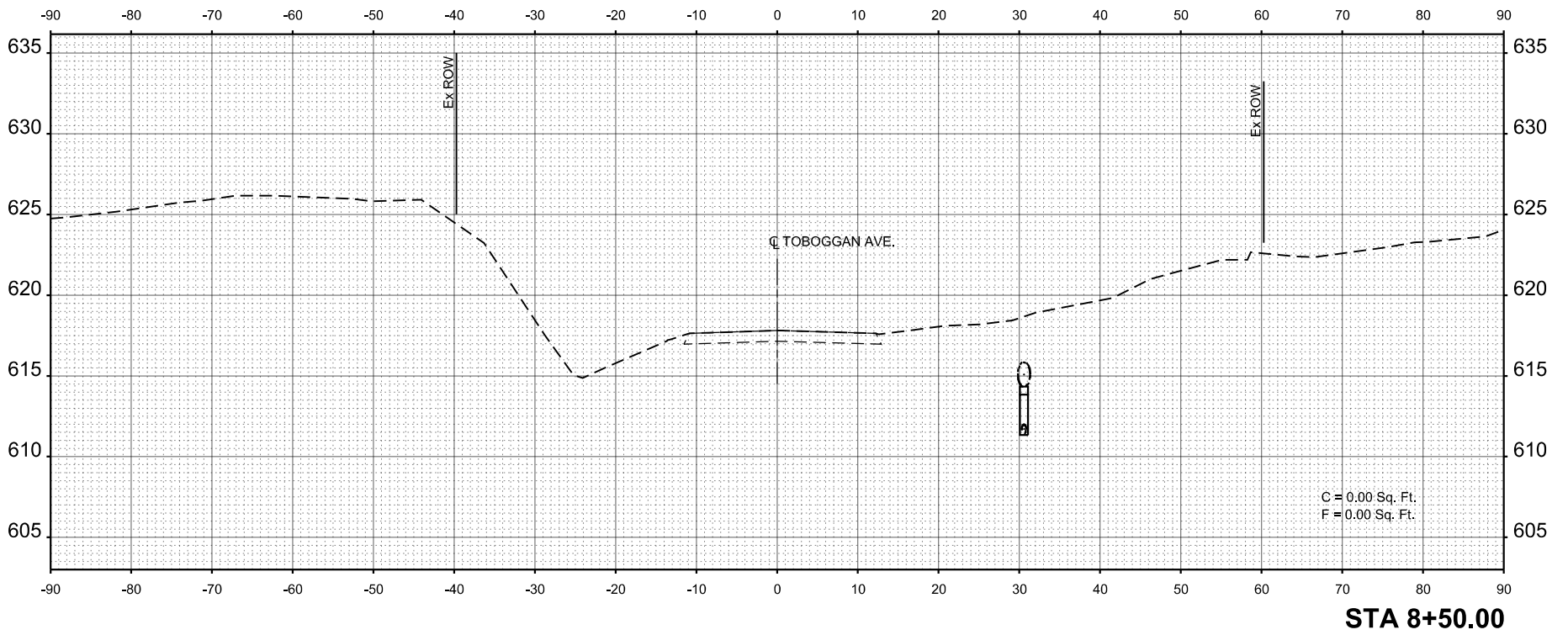
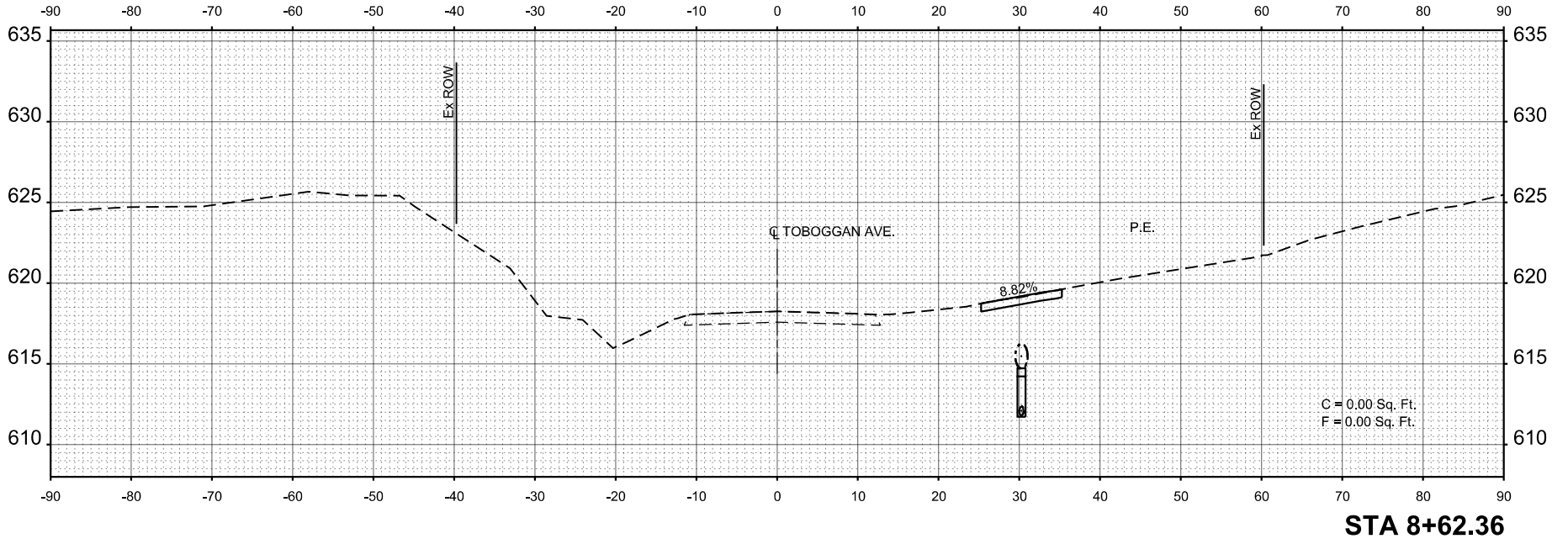
DESIGNED =
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 CHECKED =
 DATE =

REVISED =
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 REVISED =
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TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

TOBOGGAN AVENUE EMBANKMENT STABILITY
 DITCH CROSS SECTIONS
 SCALE: SHEET 2 OF 12 SHEETS STA. 8+00.00 TO STA. 8+62.36

SECTION 22-00025-00-DR
 COUNTY TAZEWELL
 TOTAL SHEET NO. 40
 SHEETS NO. 20



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

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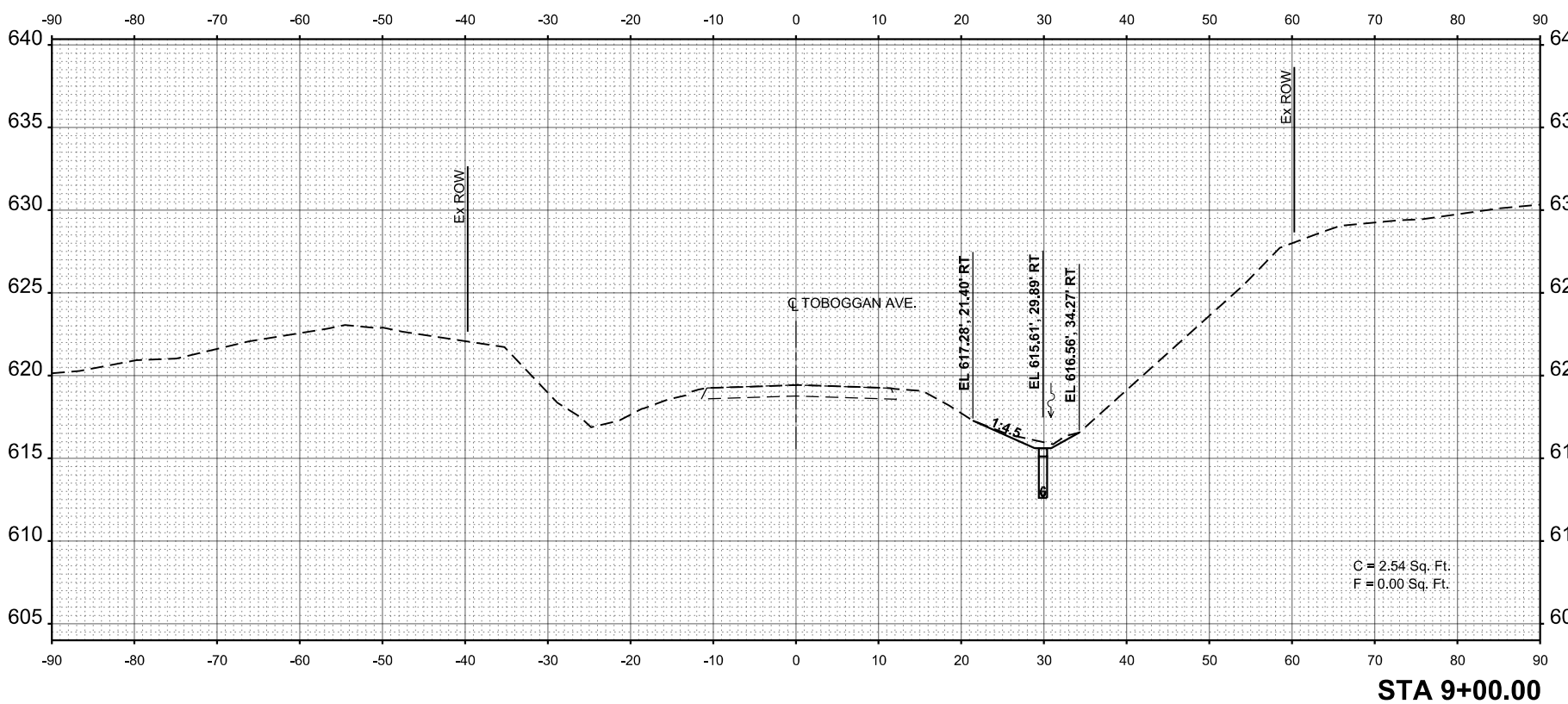
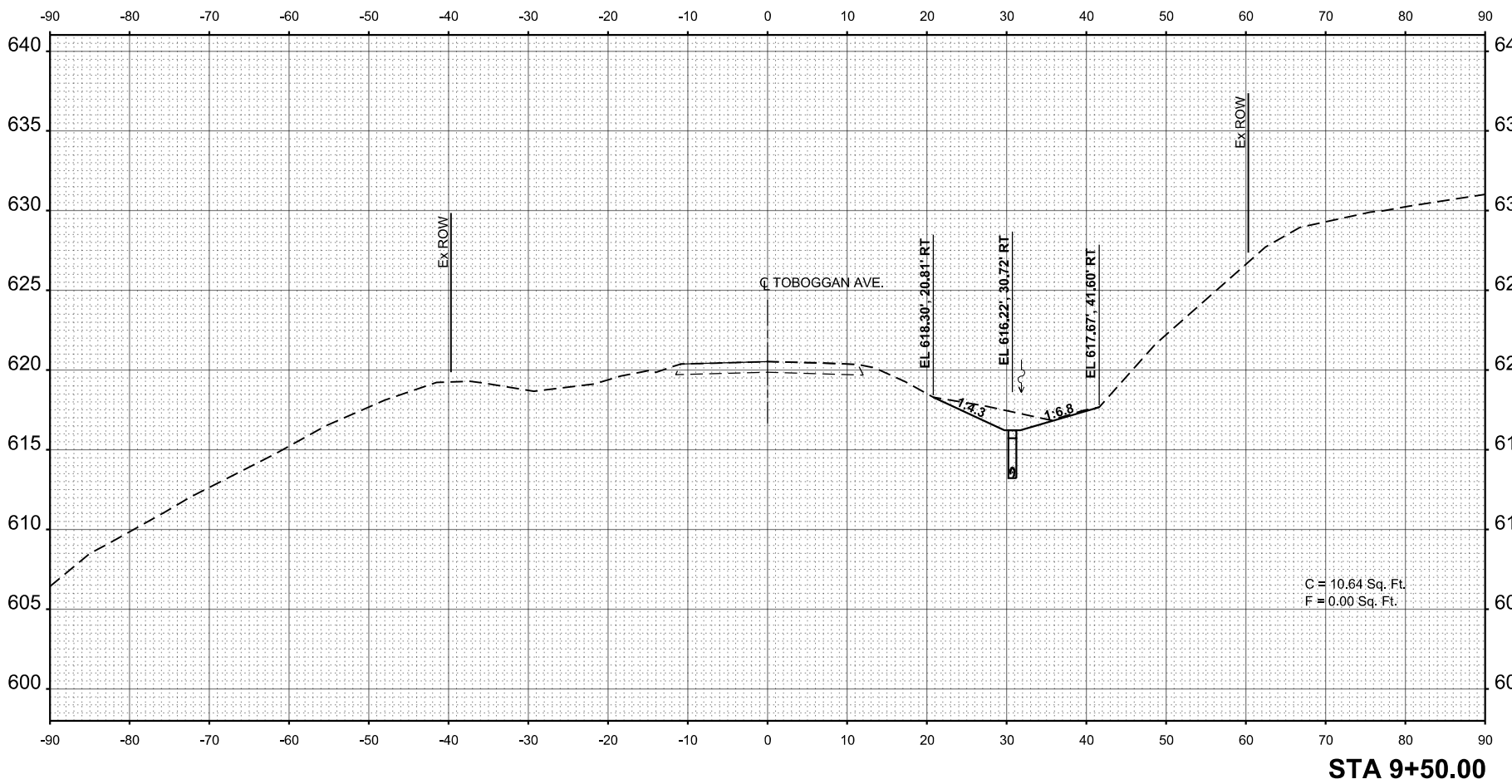
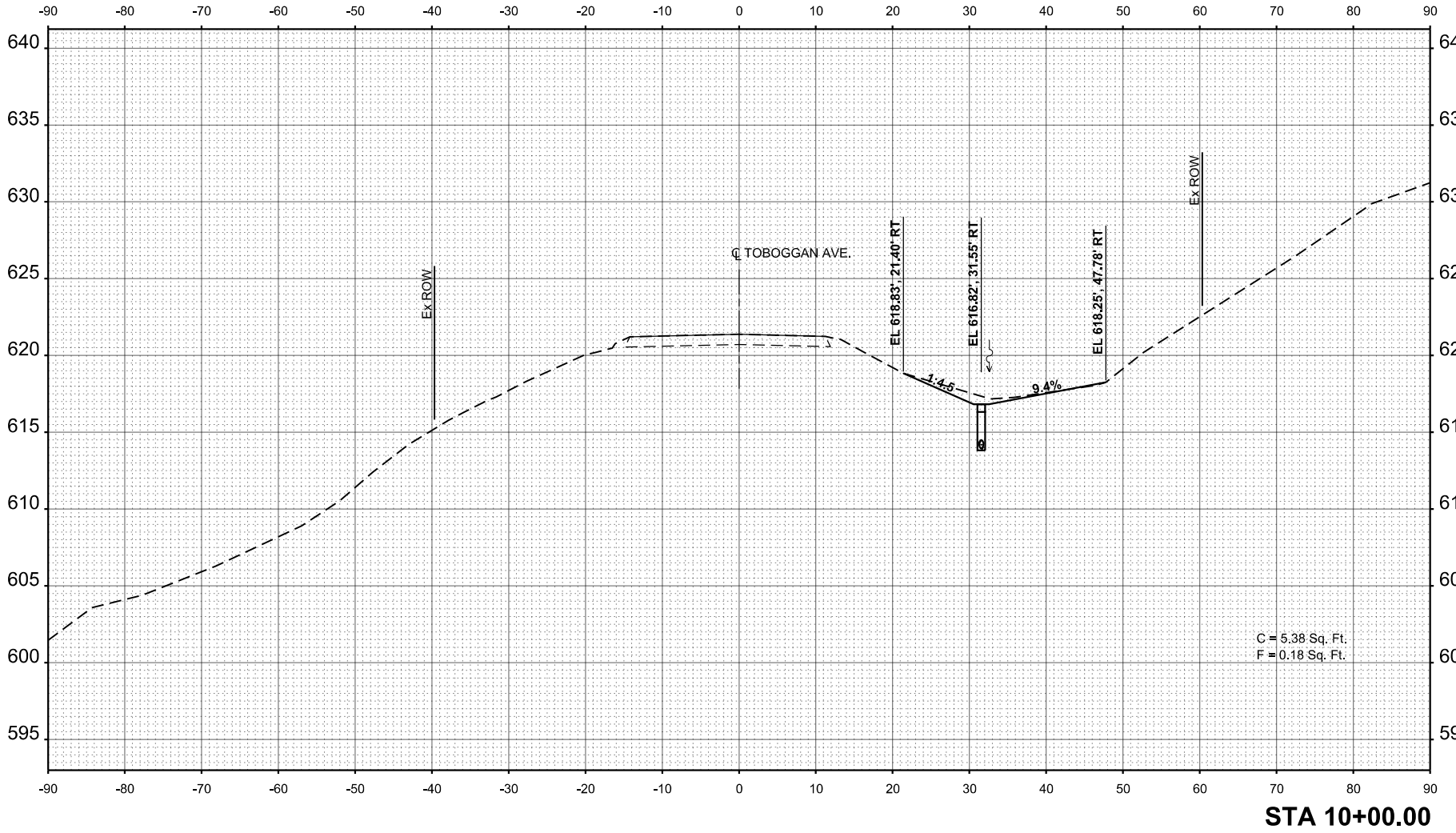
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 DATE -

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TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

TOBOGGAN AVENUE EMBANKMENT STABILITY
 DITCH CROSS SECTIONS
 SCALE: SHEET 3 OF 12 SHEETS STA. 9+00.00 TO STA. 10+00.00

SECTION	COUNTY	TOTAL SHEET NO.
22-00026-00-DR	TAZEWELL	40
		21



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

MODEL: SHEET-RCLETRGNA - 10+50.00
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MAURER-STUTZ
 ENGINEERS
 SURVEYORS

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 CHECKED -
 DATE -

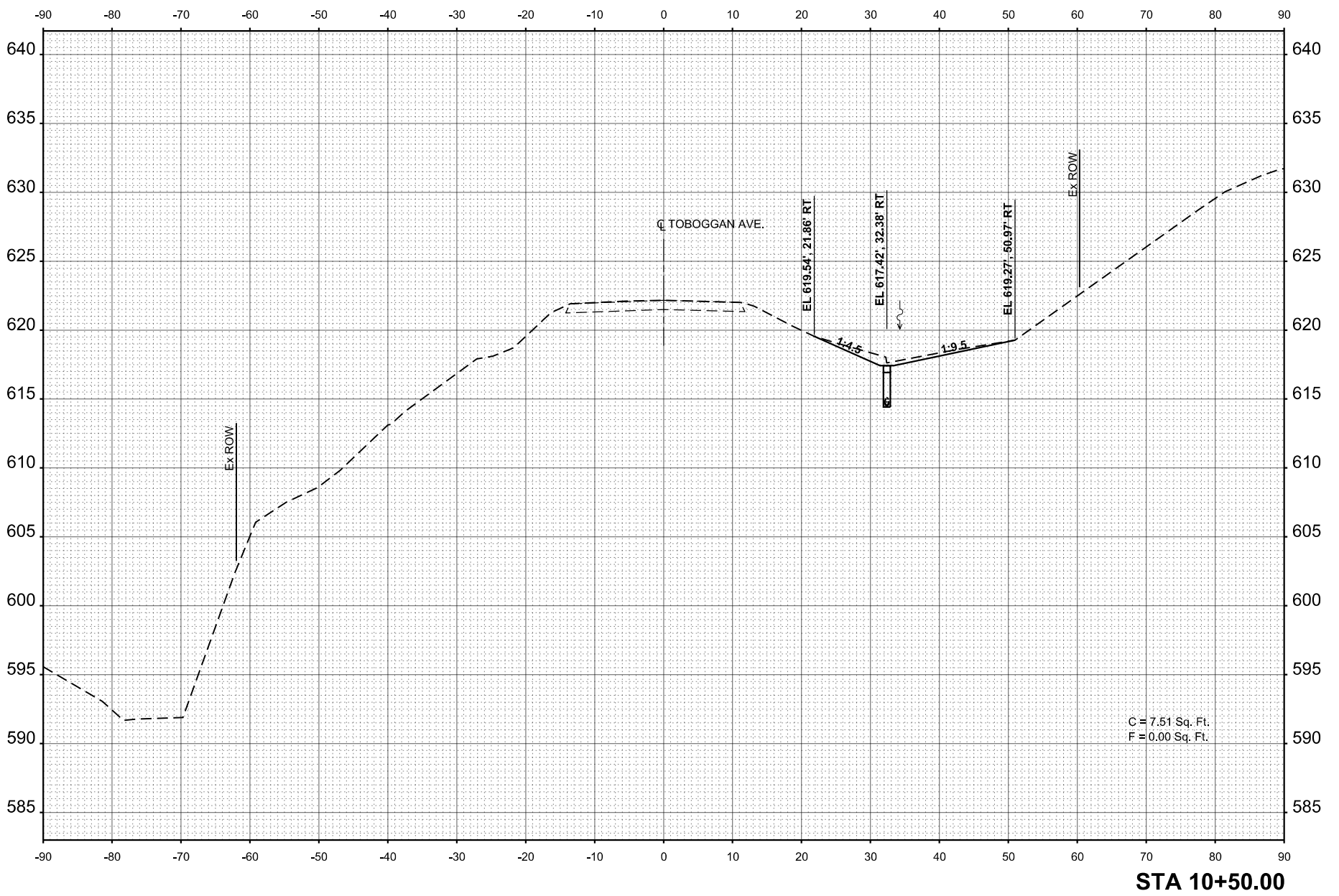
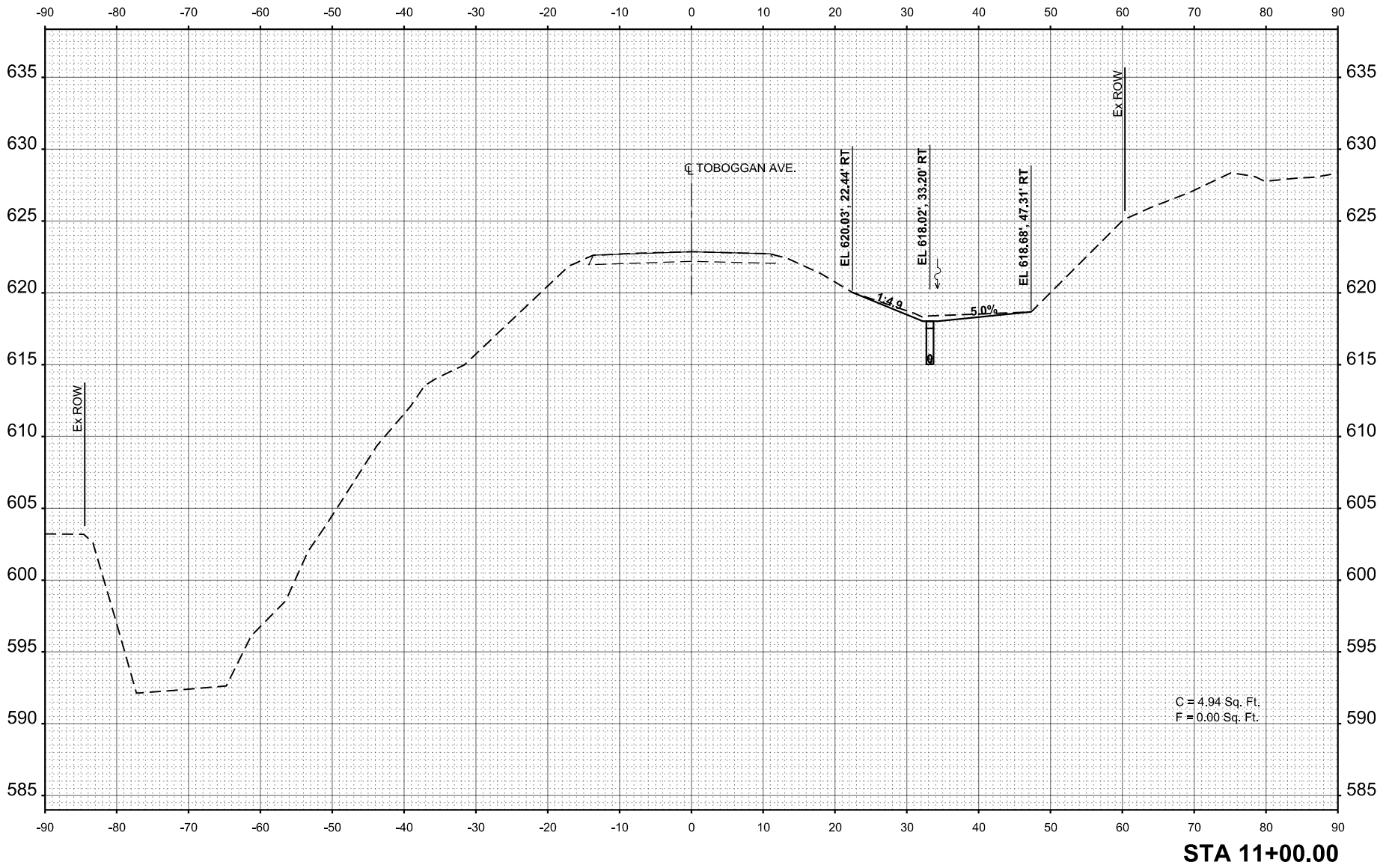
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 REVISIONS -

REVISIONS -
 REVISIONS -

TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

SCALE: SHEET 4 OF 12 SHEETS STA. 10+50.00 TO STA. 11+00.00

SECTION 22-00025-00-DR COUNTY TAZEWELL TOTAL SHEET SHEETS NO. 40 22



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

MODEL: SHEET-RCLETRGNA - 11+50.00
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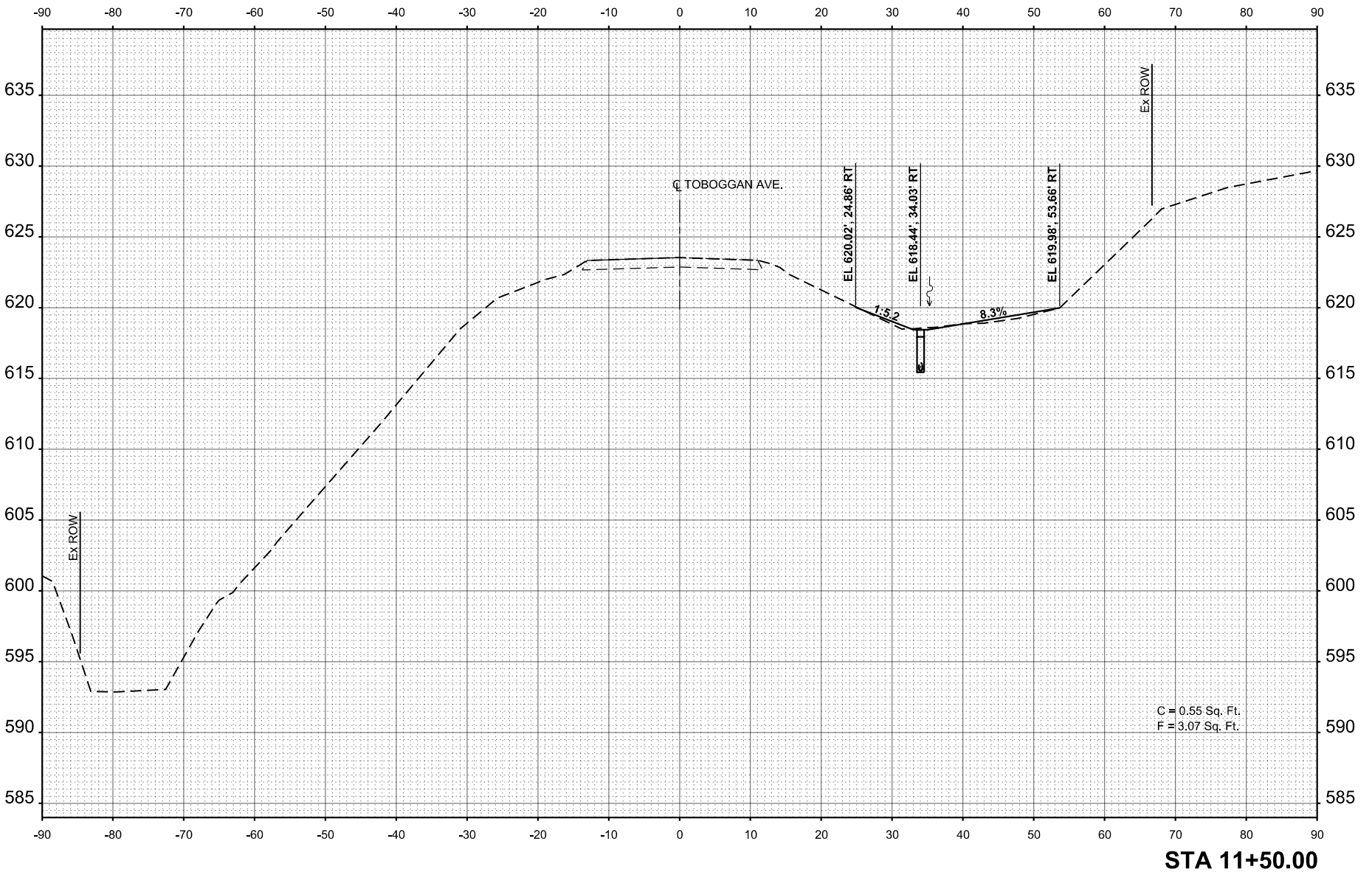
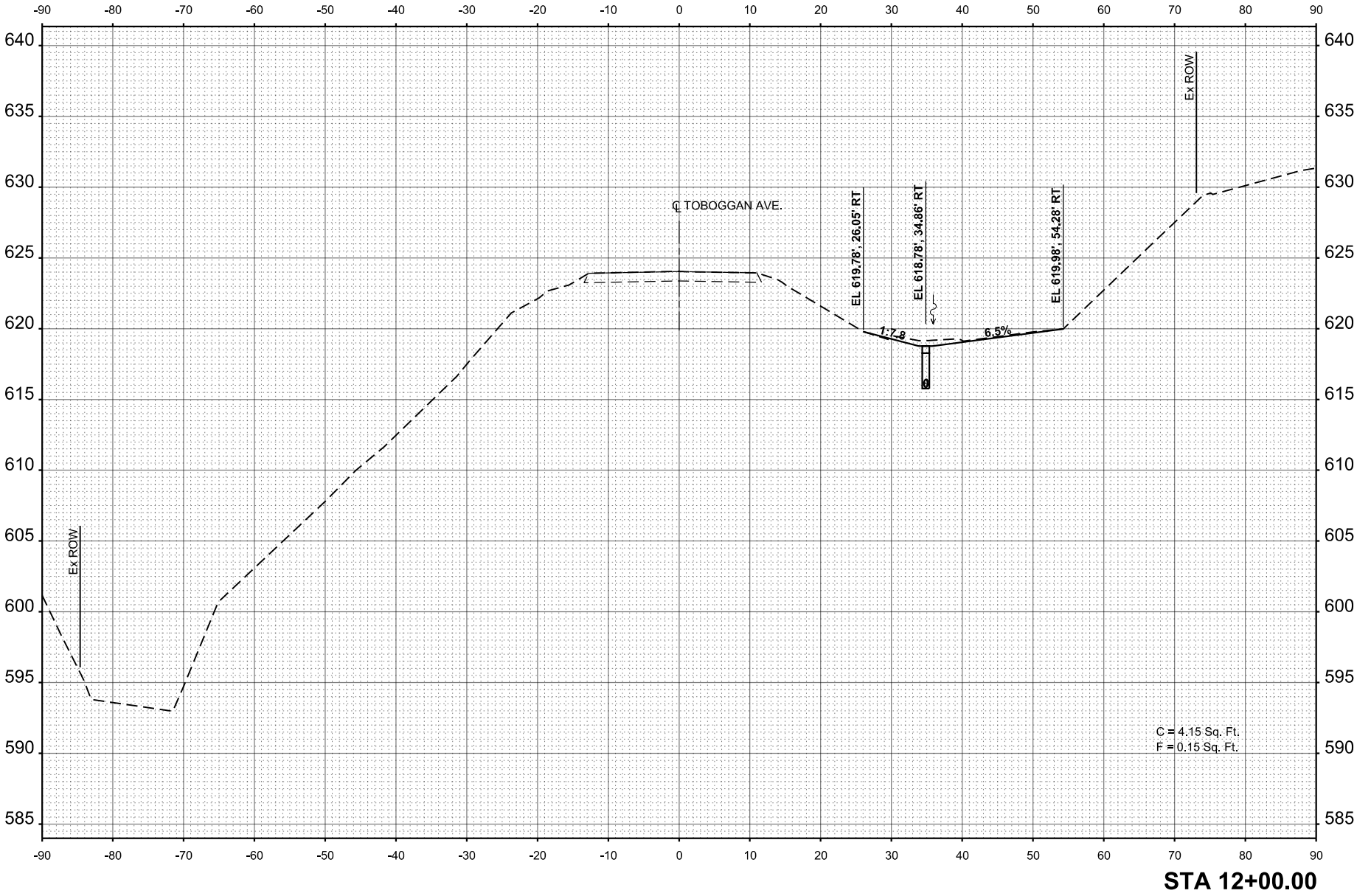
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TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

SCALE: SHEET 5 OF 12 SHEETS STA. 11+50.00 TO STA. 12+50.00
 TOBOGGAN AVENUE EMBANKMENT STABILITY
 DITCH CROSS SECTIONS

SECTION	COUNTY	TOTAL SHEET NO.
22-00026-00-DR	TAZEWELL	40
		23



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

MODEL: SHEET-RCLETRBNA - 12+50.00
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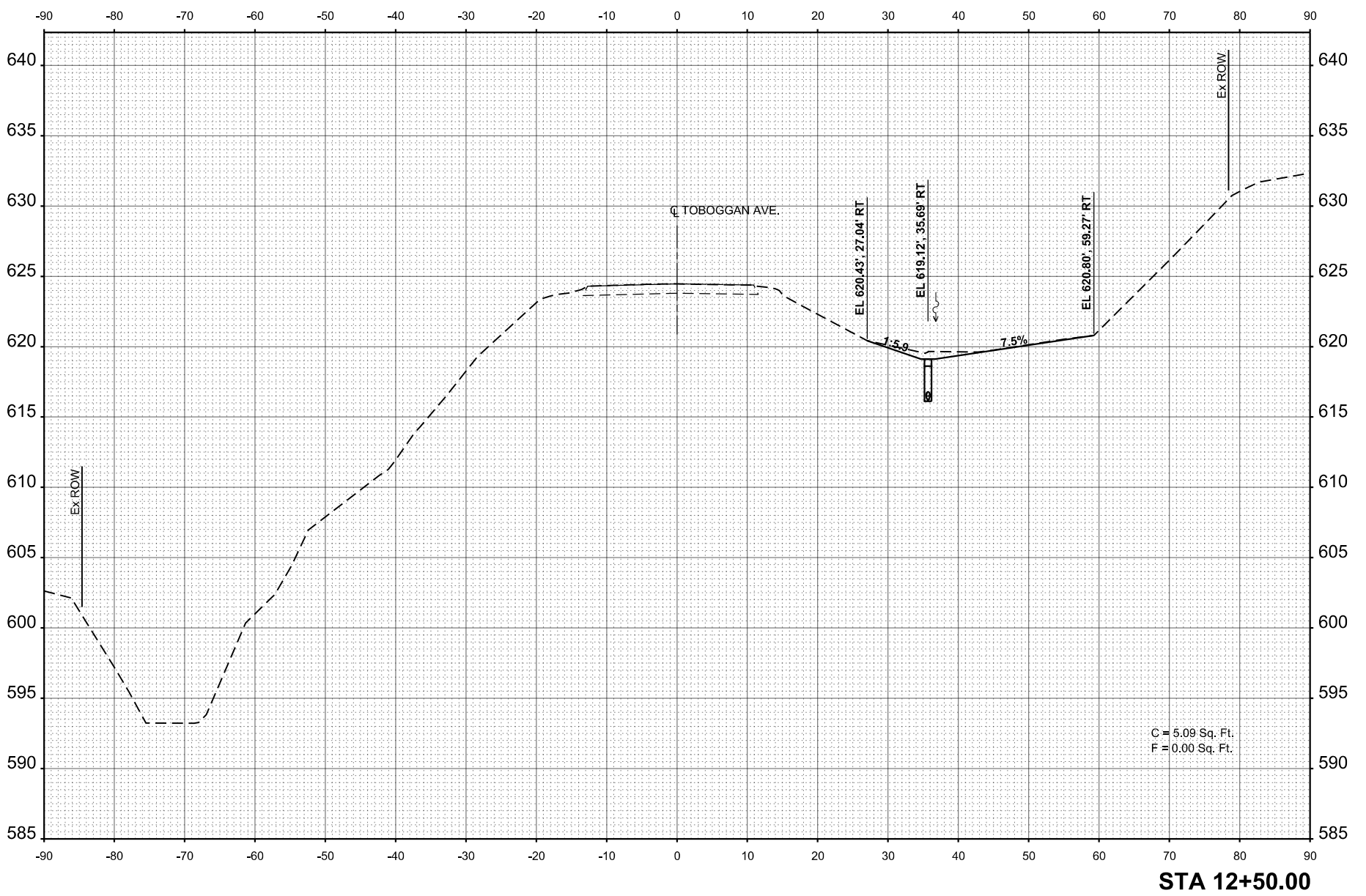
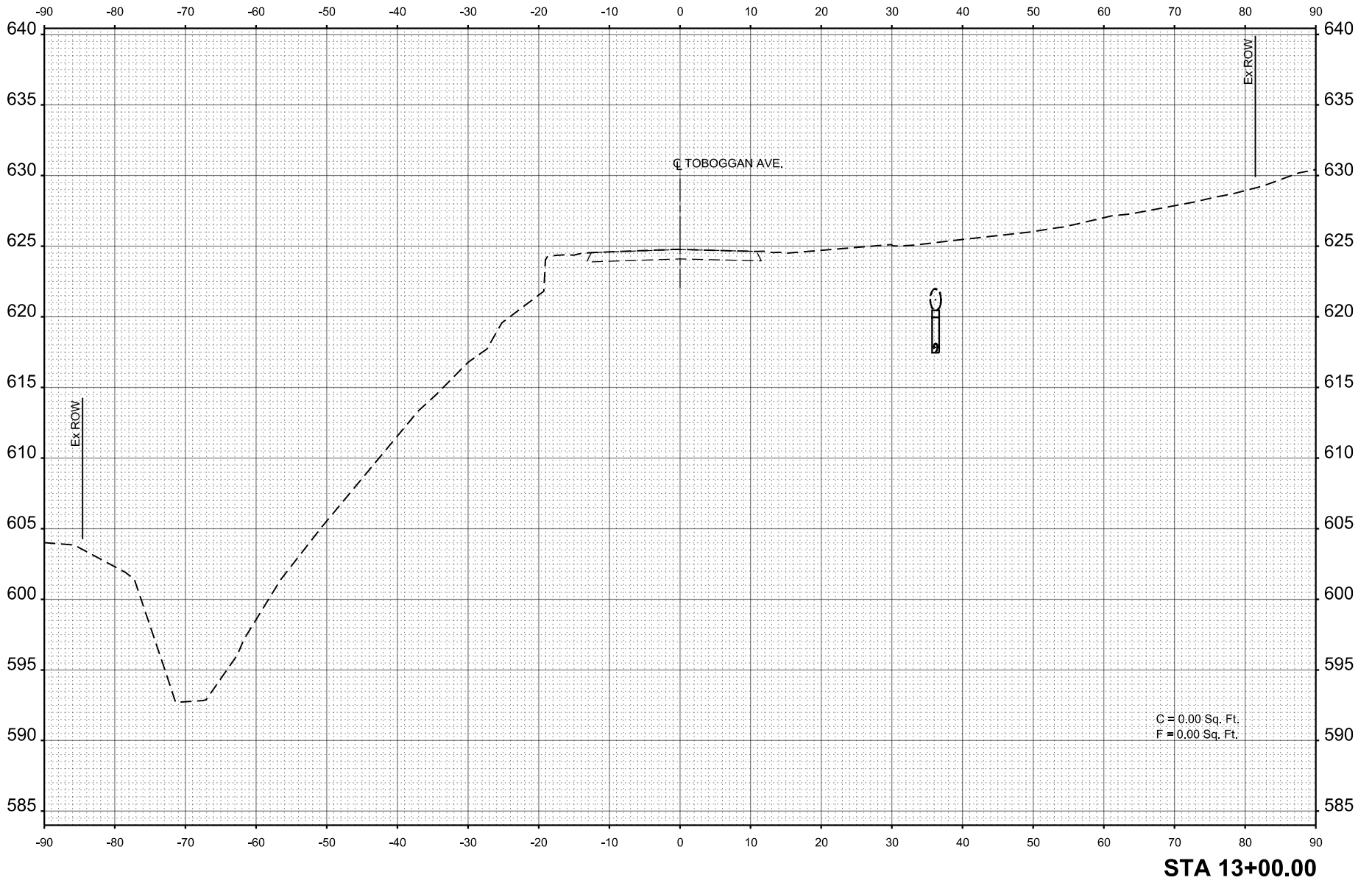
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TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

SCALE: SHEET 6 OF 12 SHEETS STA. 12+50.00 TO STA. 13+00.00
 TOBOGGAN AVENUE EMBANKMENT STABILITY
 DITCH CROSS SECTIONS

SECTION	COUNTY	TOTAL SHEET NO.
22-00025-00-DR	TAZEWELL	40
		24



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

MODEL: SHEET-RCLETRGNA - 13+11.08
 FILE NAME: S:\237\2021\23721016.01 (Tazewell County - Toboggan Ave Embankment Stability - Phase II)\CADD\CADD Sheets\1421016-sh-XSC.dgn

MAURER-STUTZ
 ENGINEERS
 SURVEYORS

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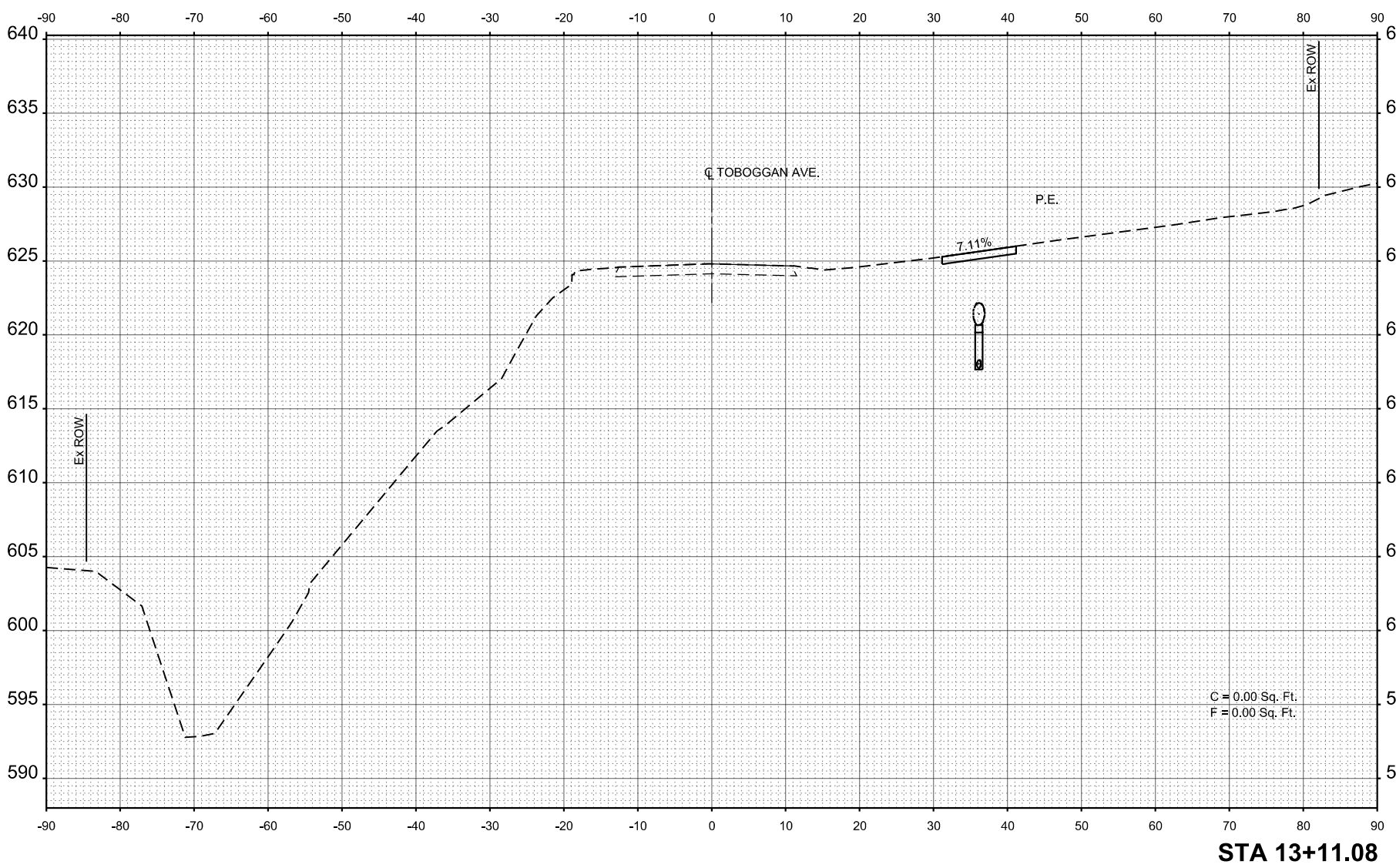
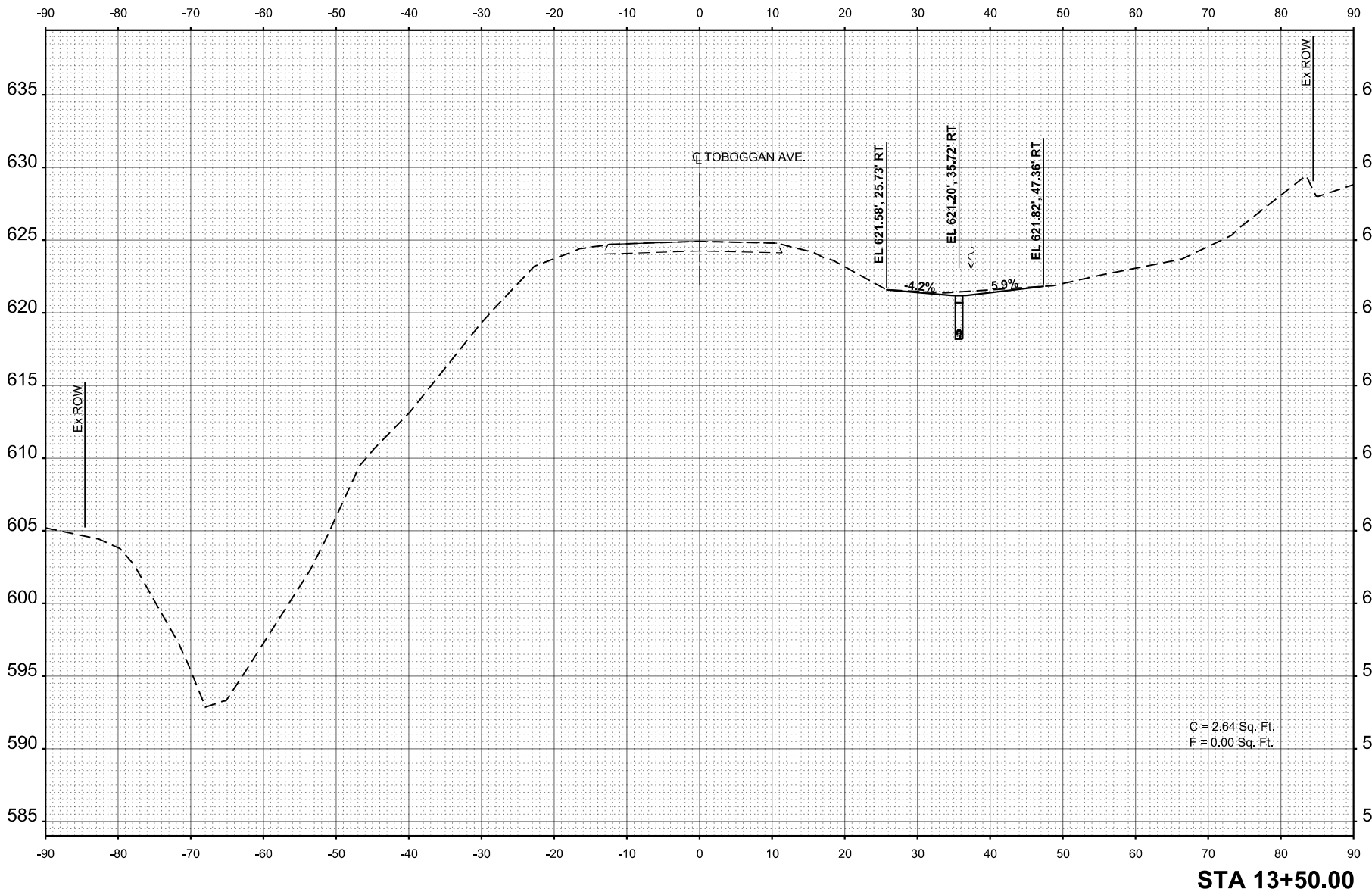
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REVISED =
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TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

SCALE: SHEET 7 OF 12 SHEETS STA. 13+11.08 TO STA. 13+50.00
 TOBOGGAN AVENUE EMBANKMENT STABILITY
 DITCH CROSS SECTIONS

SECTION 22-00025-00-DR COUNTY TAZEWELL TOTAL SHEET SHEETS NO. 40 25



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

MODEL: SHEET-RCLETRGNA - 14+00.00
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 2. REVISION
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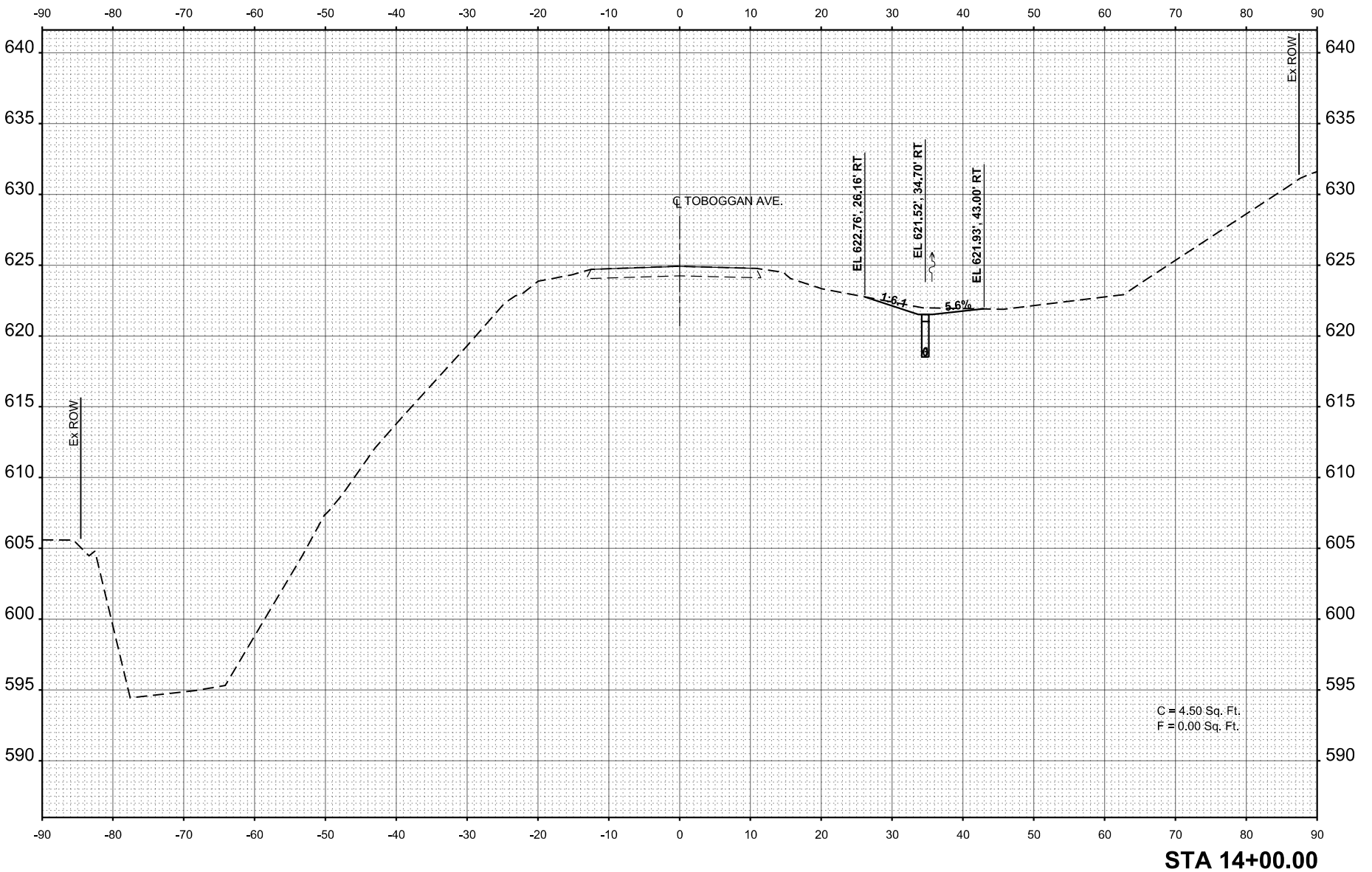
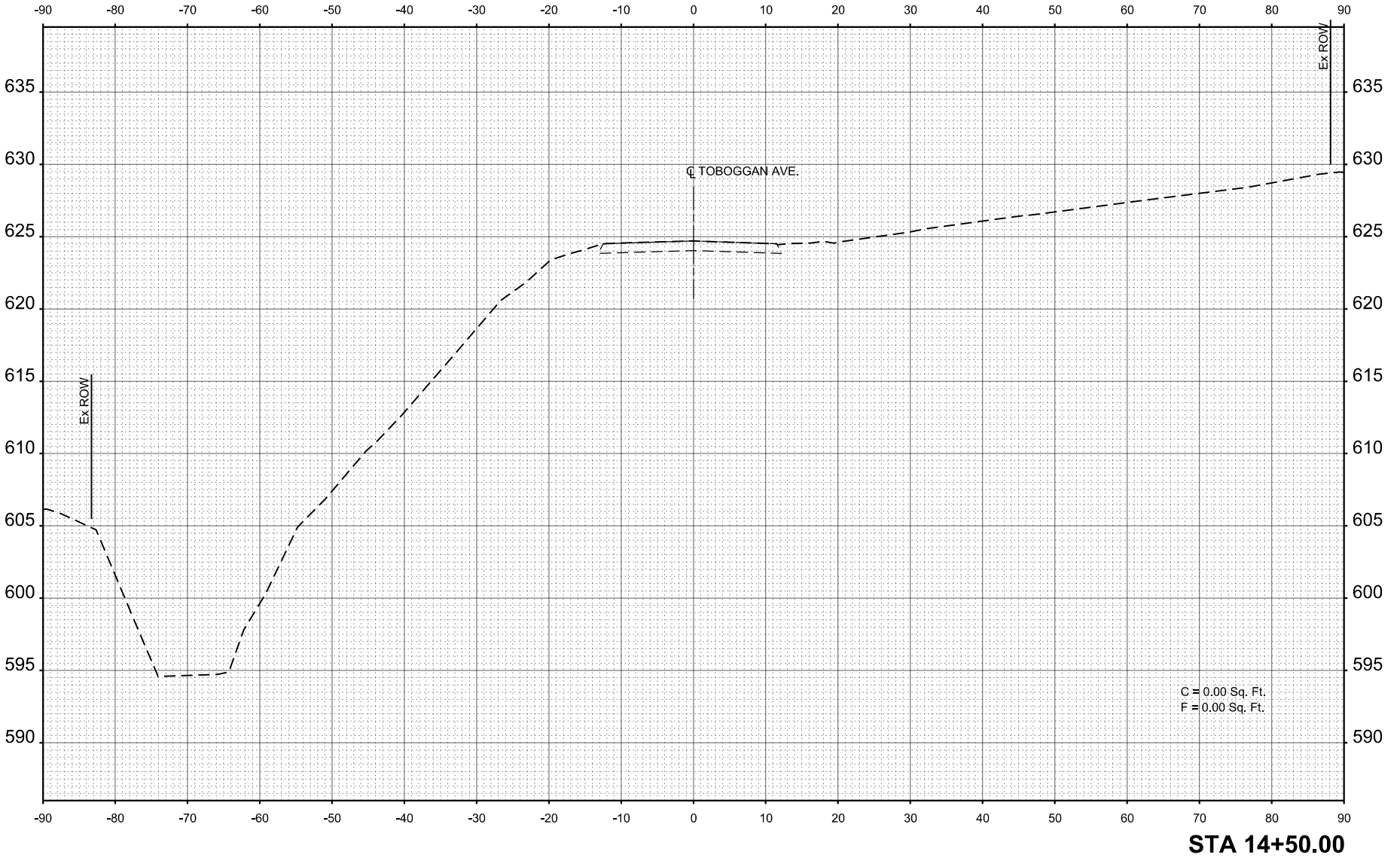
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TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

SCALE:
 SHEET 8 OF 12 SHEETS
 STA. 14+00.00 TO STA. 14+50.00

TOBOGGAN AVENUE EMBANKMENT STABILITY
 DITCH CROSS SECTIONS

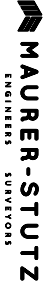
SECTION	COUNTY	TOTAL SHEET NO.
22-00025-00-DR	TAZEWELL	40
		28



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

MODEL: SHEET-RCLETRBNA - 15+00.00
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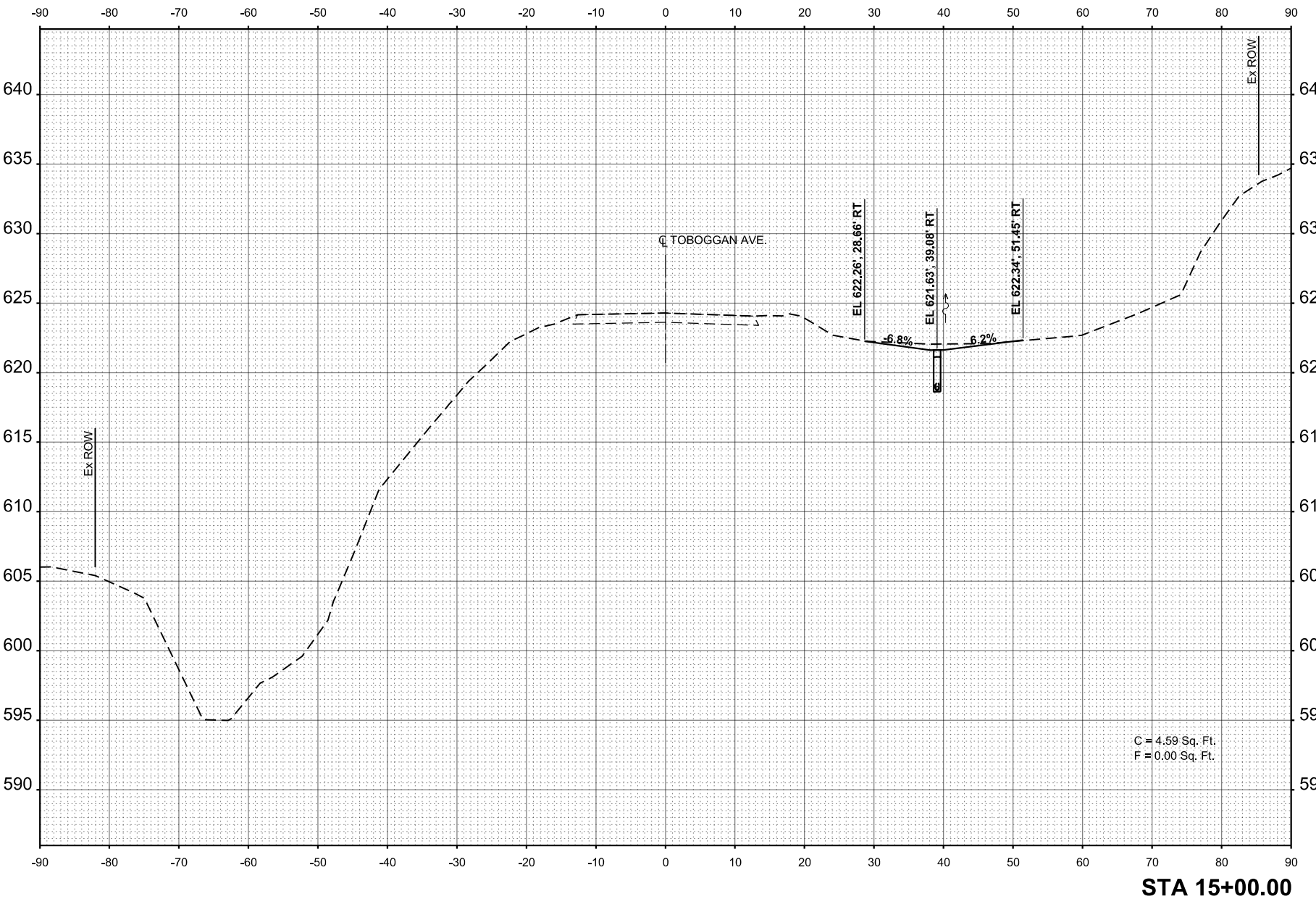
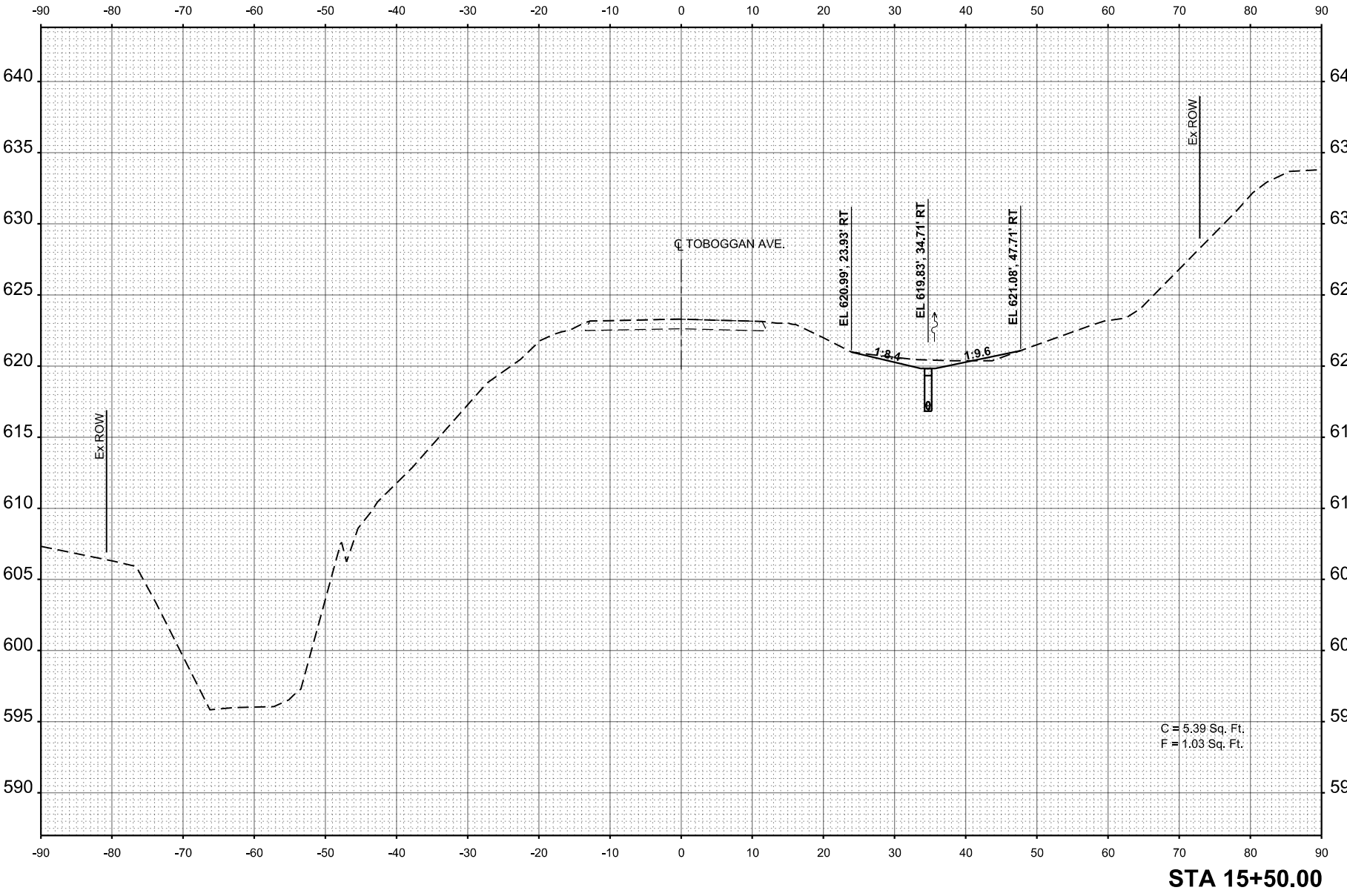
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 CHECKED -
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REVISED -
 REVISED -
 REVISED -
 REVISED -

TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

SCALE: SHEET 9 OF 12 SHEETS STA. 15+00.00 TO STA. 15+50.00
 TOBOGGAN AVENUE EMBANKMENT STABILITY
 DITCH CROSS SECTIONS

SECTION	COUNTY	TOTAL SHEET NO.
22-00025-00-DR	TAZEWELL	40
		27



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

MODEL: SHEET-RCLETRGNA - 16+00.00
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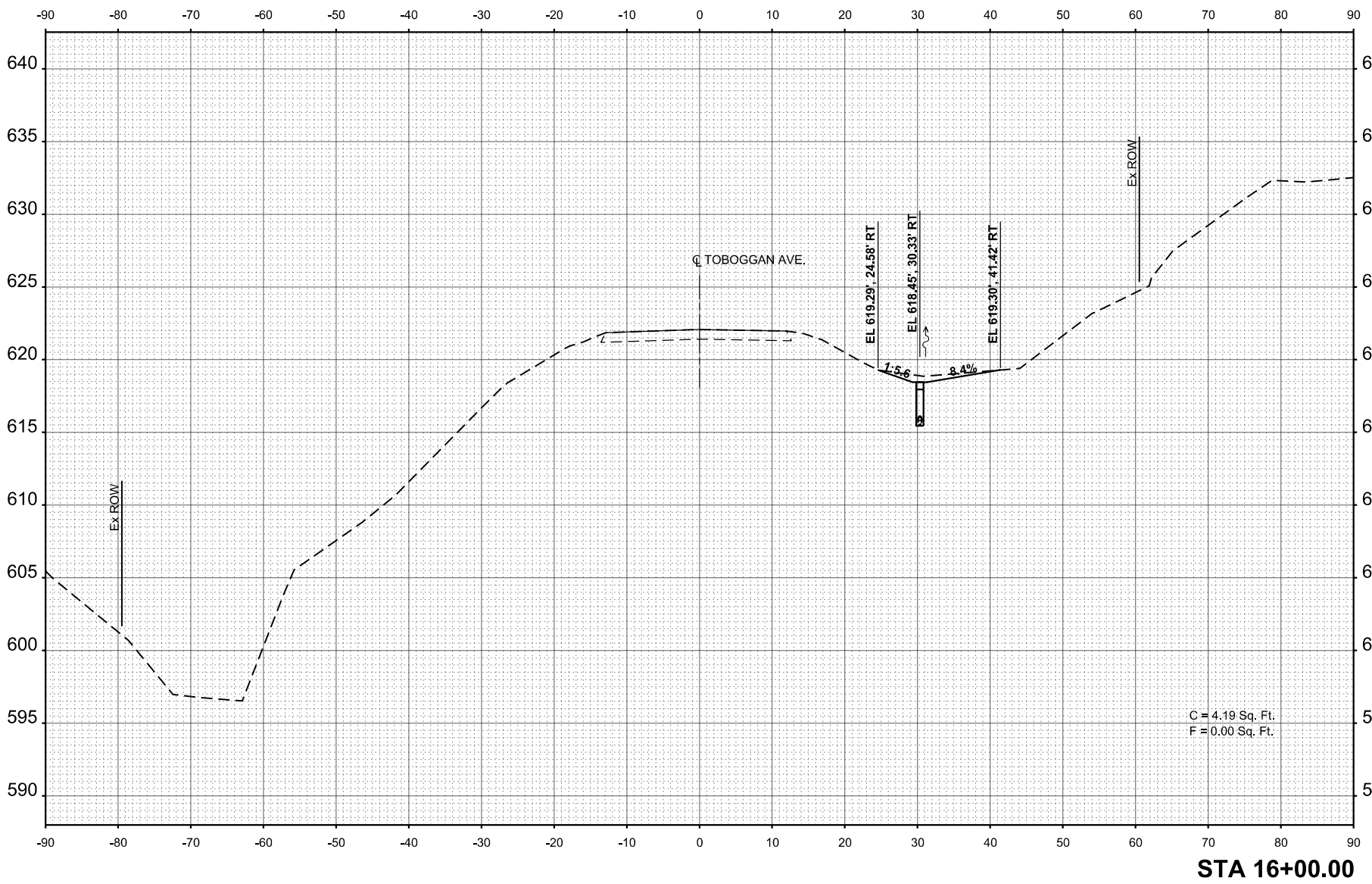
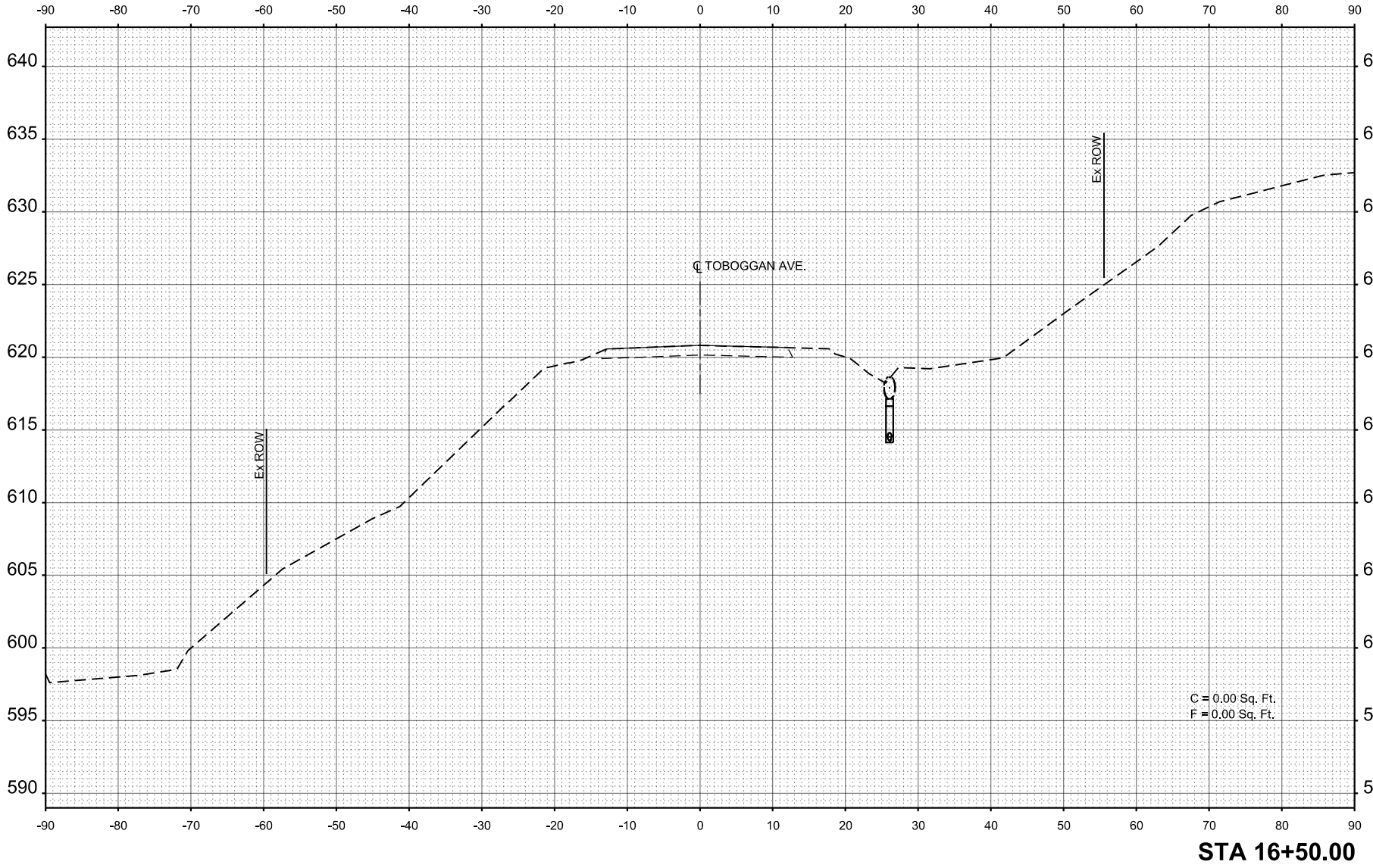
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TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

SCALE:
 SHEET 10 OF 12 SHEETS
 STA. 16+00.00 TO STA. 16+50.00

TOBOGGAN AVENUE EMBANKMENT STABILITY
 DITCH CROSS SECTIONS

SECTION	COUNTY	TOTAL SHEET NO.
22-00025-00-DR	TAZEWELL	40
		28



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

MODEL: SHEET-RCLETRBNA - 16+74.42
 FILE NAME: S:\237\2021\23721016.01 (Tazewell County - Toboggan Ave Embankment Stability - Phase II)\CADD\CADD Sheets\16-sh-XSC.dgn

MAURER-STUTZ
 ENGINEERS
 SURVEYORS

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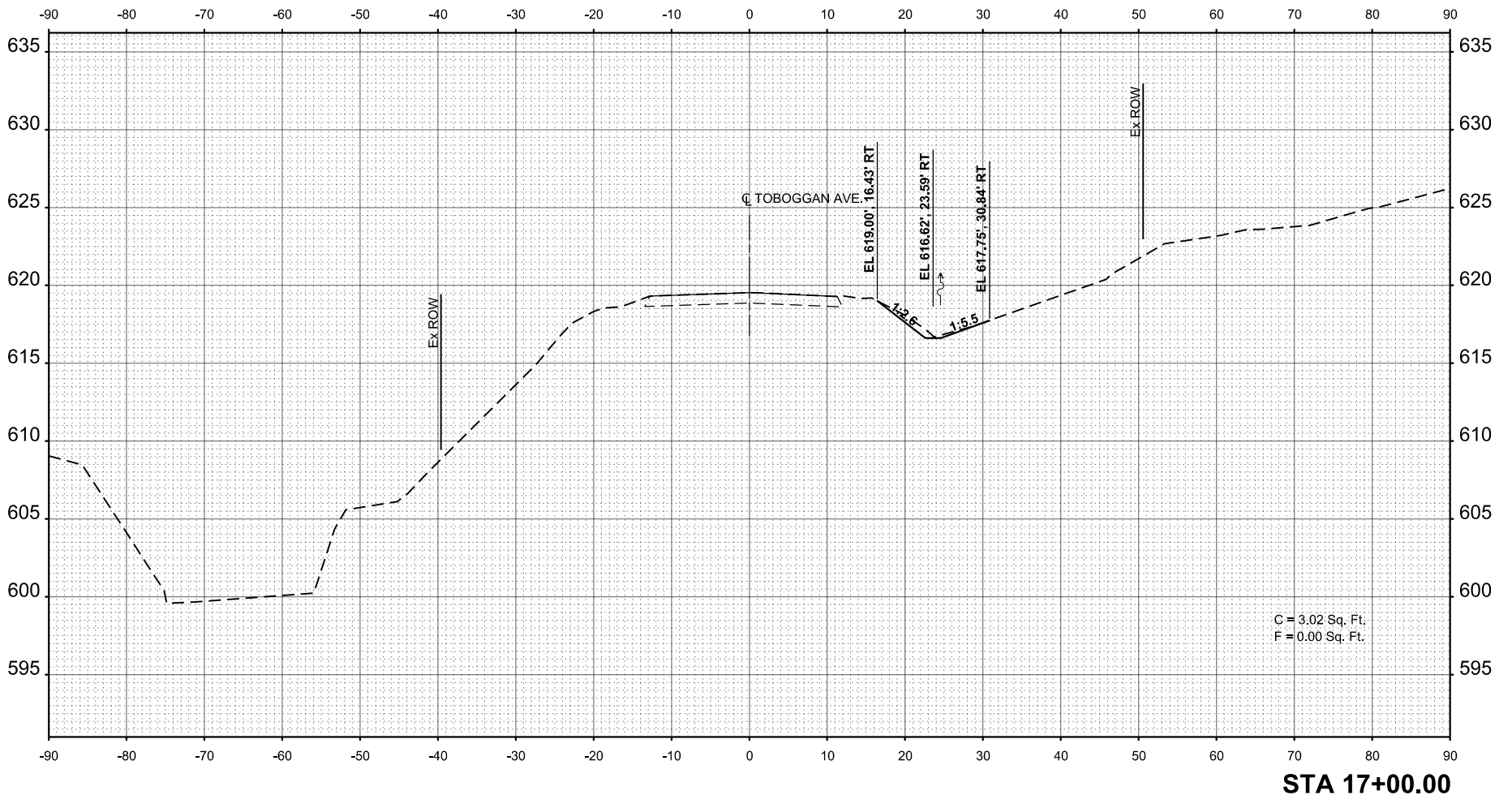
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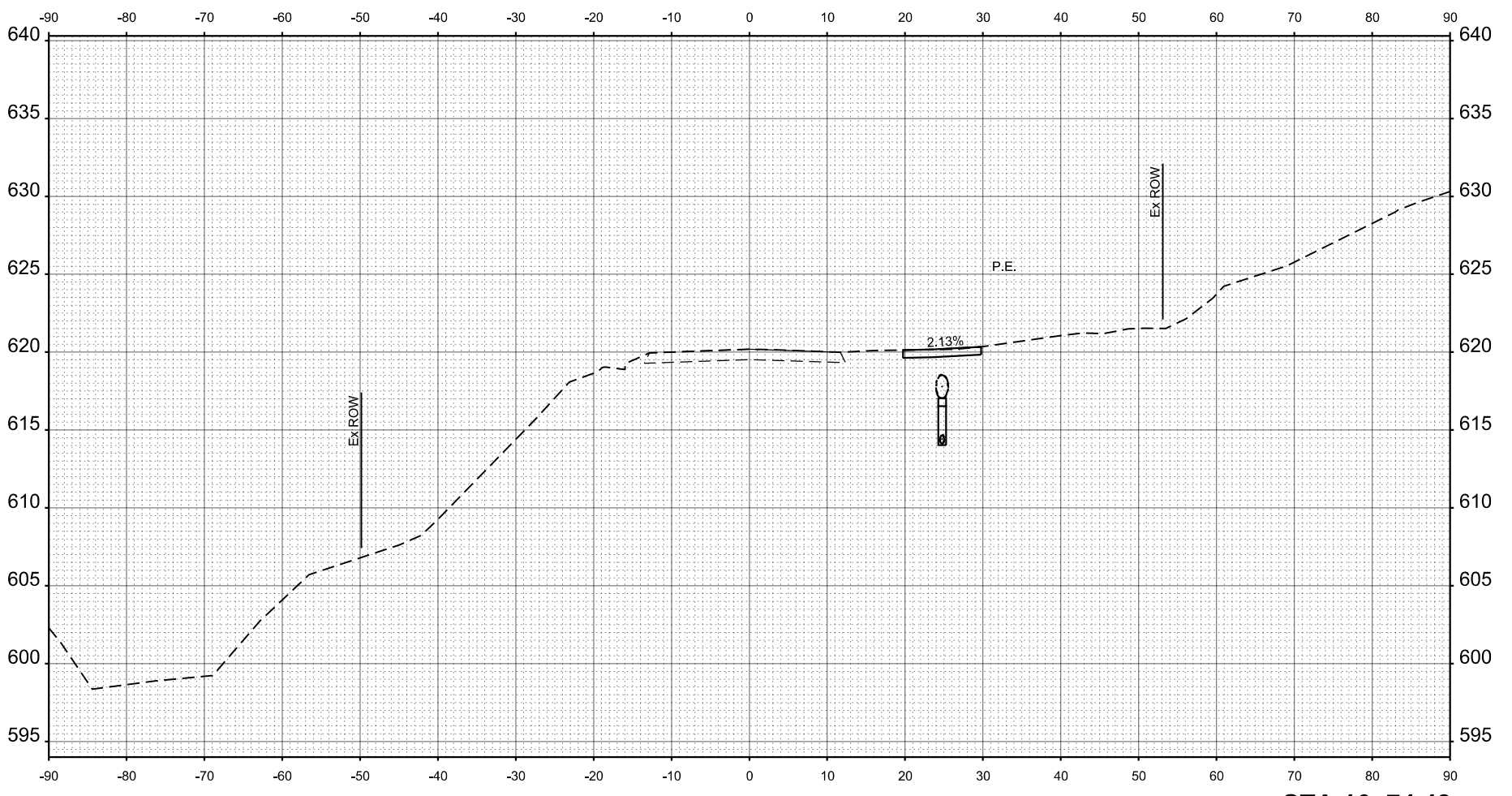
TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

SCALE: _____
 SHEET 11 OF 12 SHEETS STA. 16+74.42 TO STA. 17+00.00
 TOBOGGAN AVENUE EMBANKMENT STABILITY
 DITCH CROSS SECTIONS

SECTION	COUNTY	TOTAL SHEET NO.
22-00026-00-DR	TAZEWELL	40
		29



STA 17+00.00



STA 16+74.42

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

MODEL: SHEET-RCLETRBNA - 17+24.00
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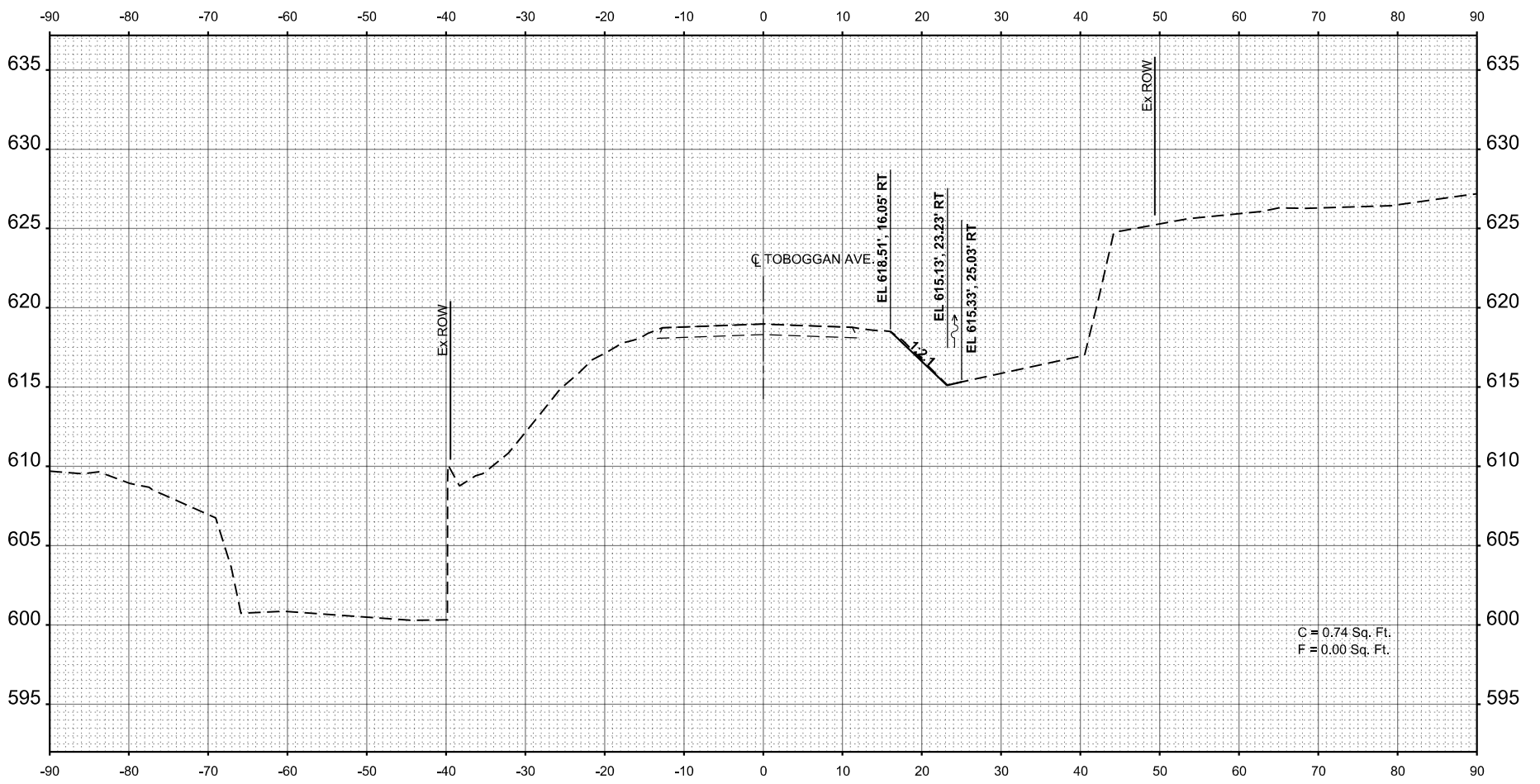
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TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

SCALE:

TOBOGGAN AVENUE EMBANKMENT STABILITY
 DITCH CROSS SECTIONS
 SHEET 12 OF 12 SHEETS STA. 17+24.00 TO STA. 17+24.00

SECTION	COUNTY	TOTAL SHEET
22-00025-00-DR	TAZEWELL	NO. 40
		30



PROJECT IMPROVEMENT ENDS
 STA. 17+56.67

STA 17+24.17

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

MODEL: SHEET-RCLETRGNA - 12+23.35
 FILE NAME: S:\237\2021\23721016.01 (Tazewell County - Toboggan Ave Embankment Stability - Phase II)\CADD\CADD Sheets\12+23.35-Slide Areas.dgn



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DESIGNED -
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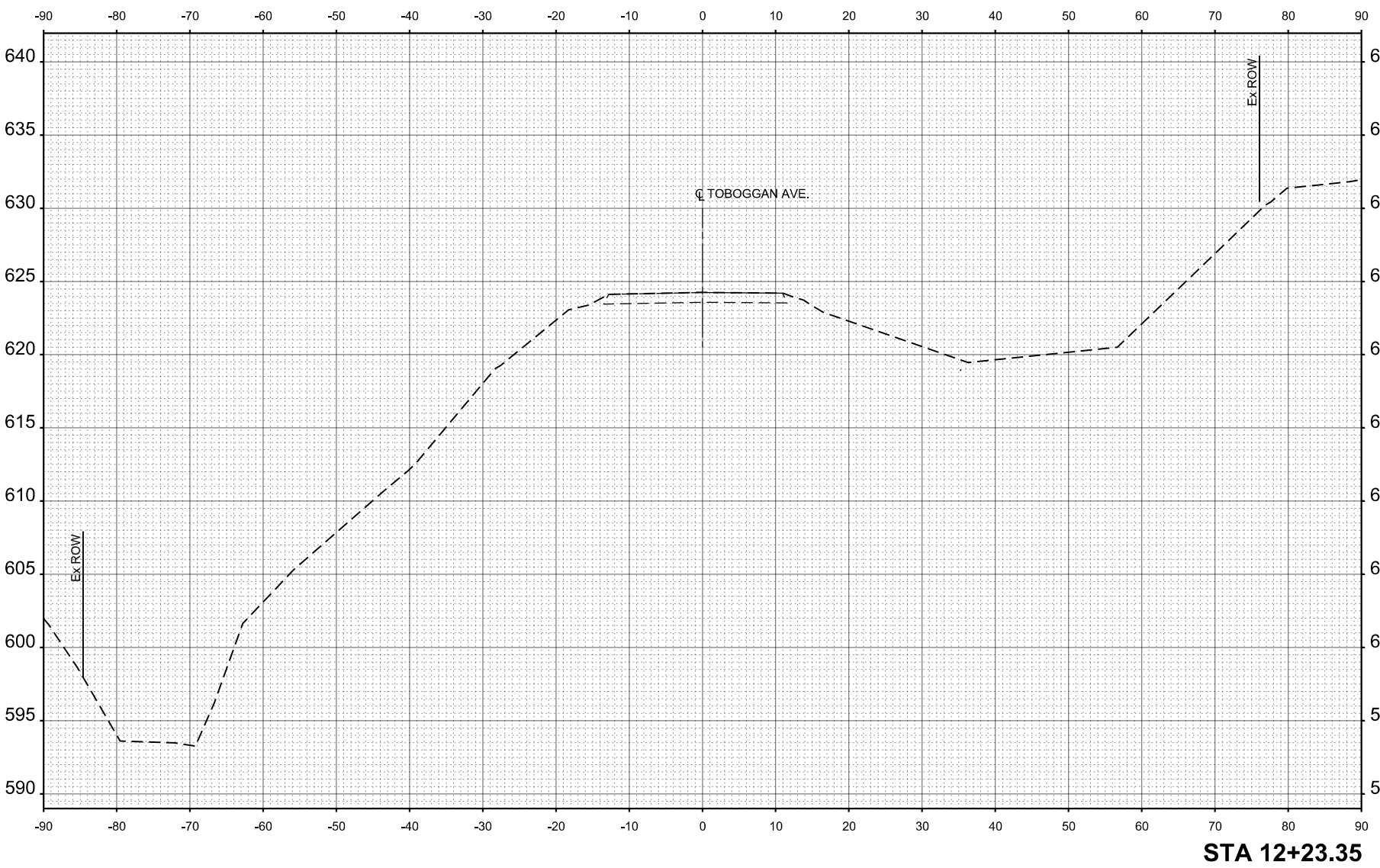
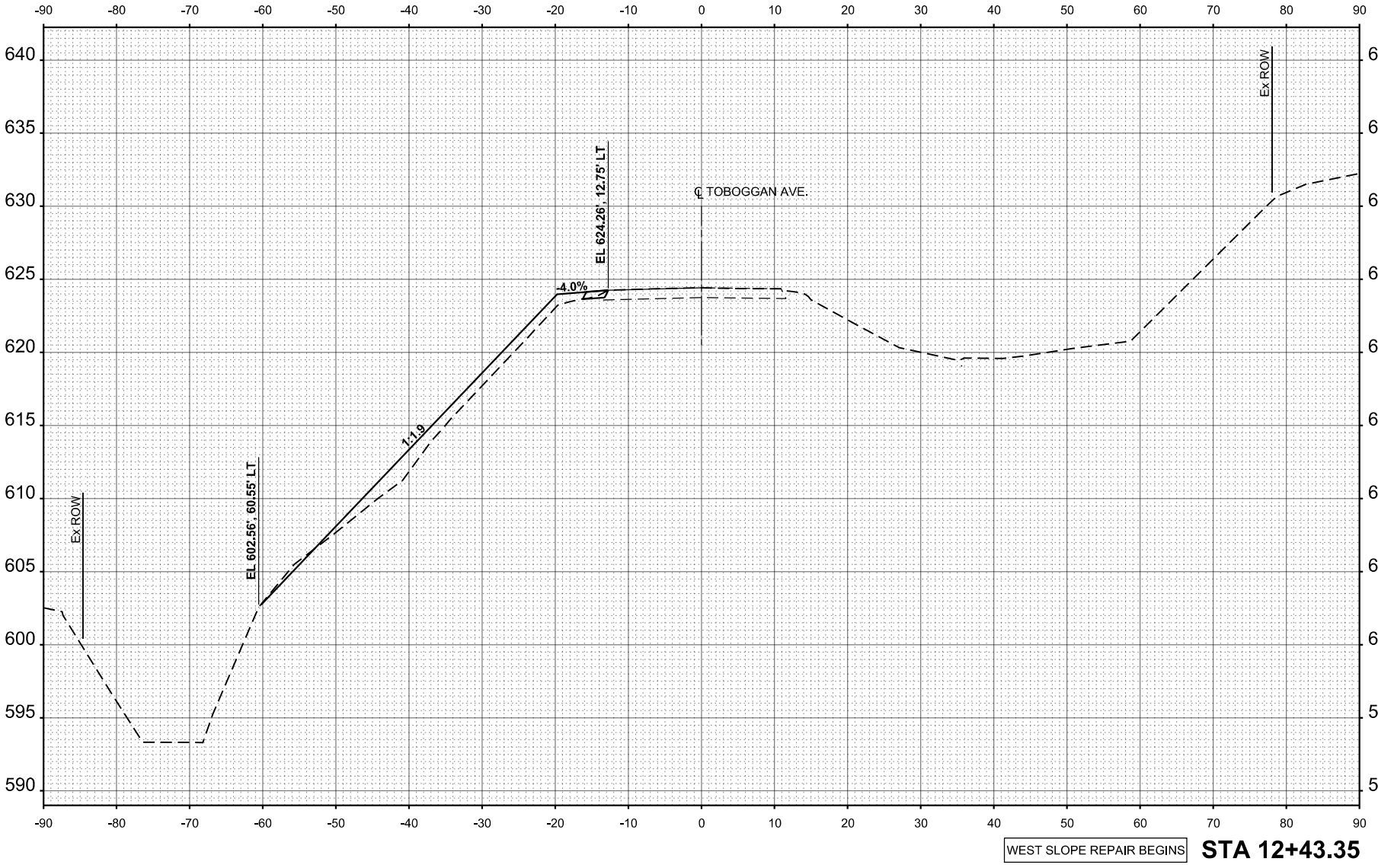
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TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

SCALE: SHEET 1 OF 5 SHEETS STA. 12+23.35 TO STA. 12+43.35

TOBOGGAN AVENUE EMBANKMENT STABILITY
 WEST SLOPE REPAIR CROSS SECTIONS

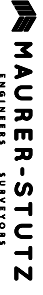
SECTION 22-00026-00-DR COUNTY TAZEWELL TOTAL SHEET NO. 40 SHEETS 31



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

MODEL: SHEET-RCLETRBNA - 12+60.00
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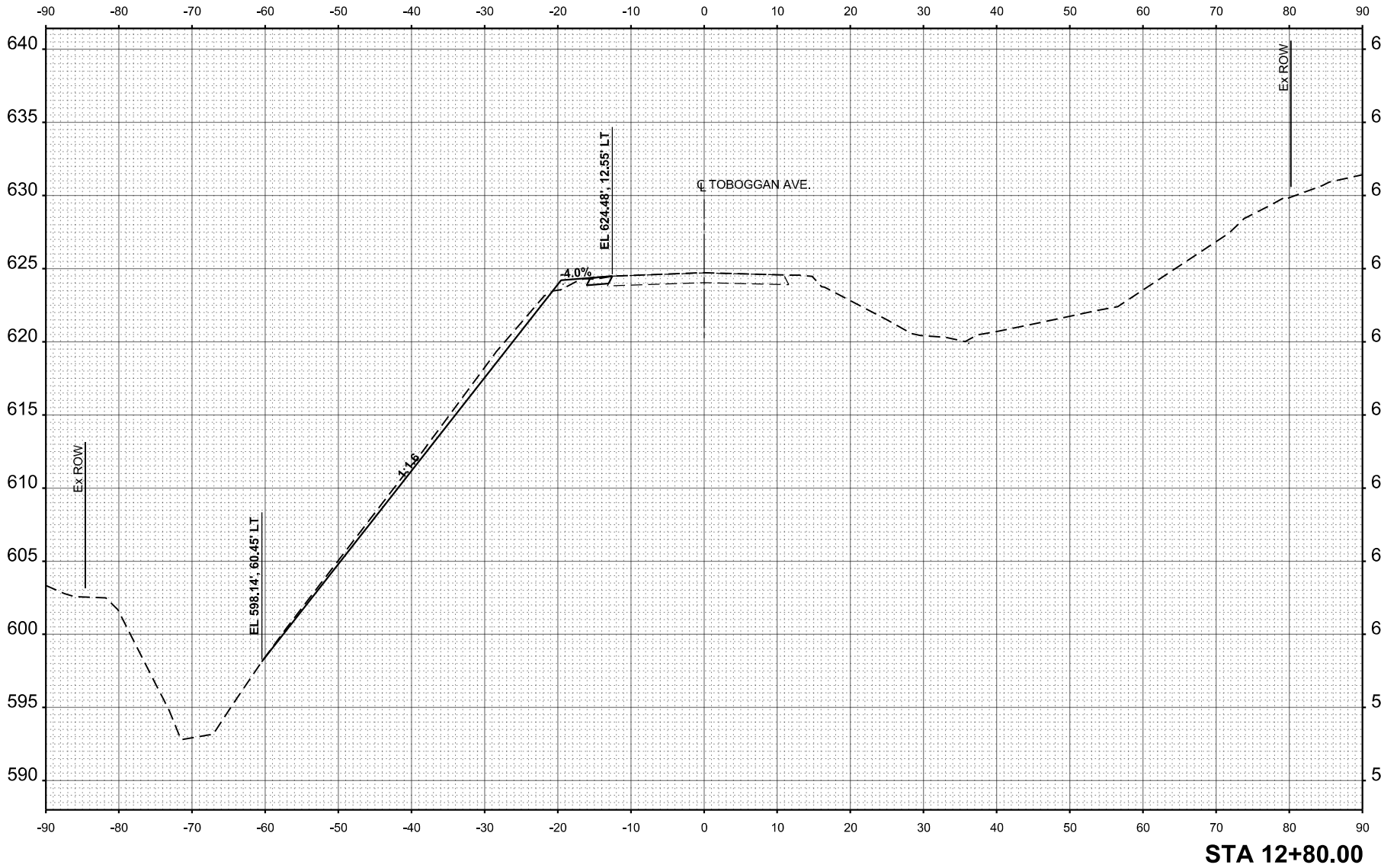
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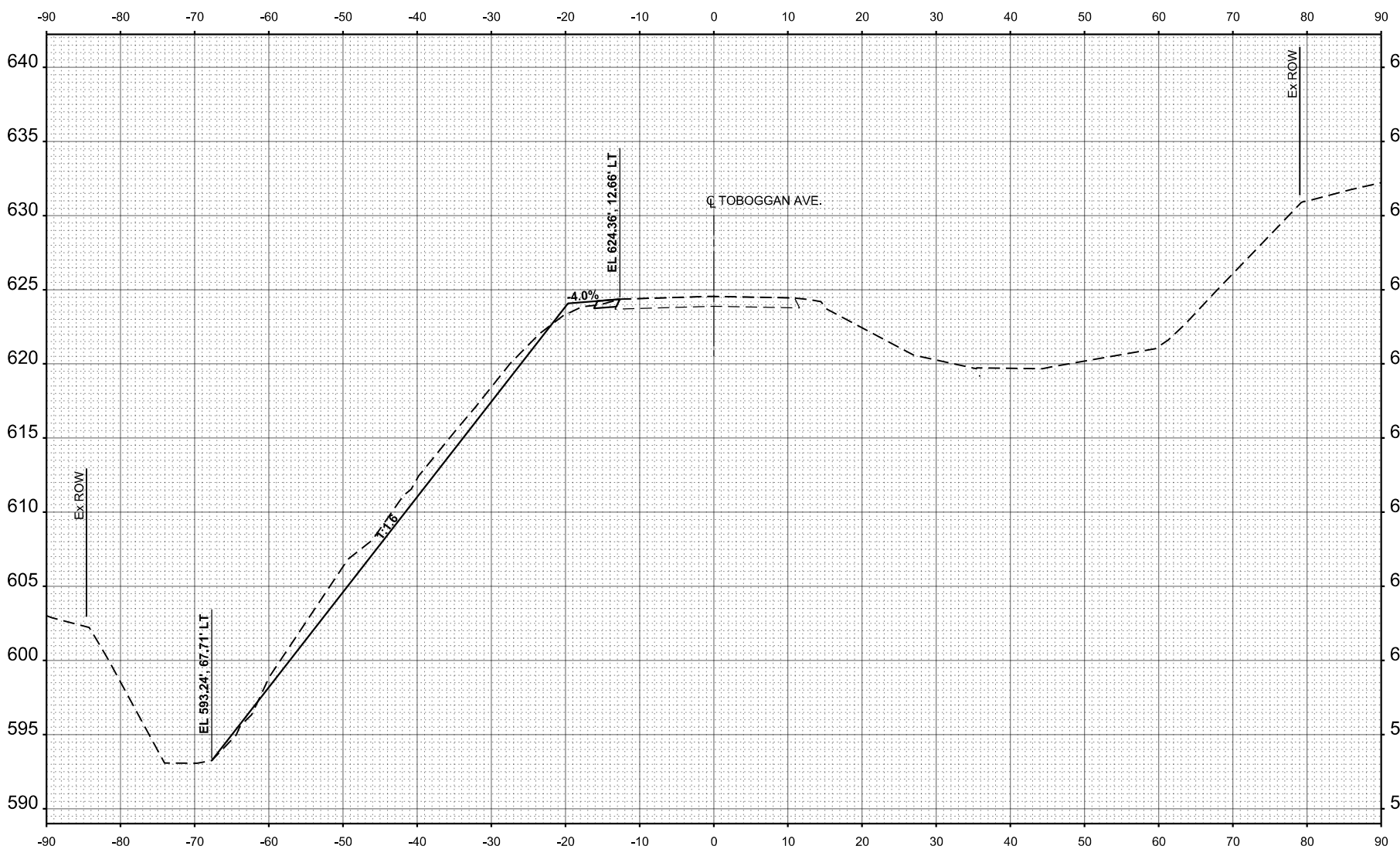
TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

SCALE: SHEET 2 OF 5 SHEETS STA. 12+60.00 TO STA. 12+80.00

SECTION: 22-00026-00-DR
 COUNTY: TAZEWELL
 TOTAL SHEET NO.: 40
 SHEETS: 32



STA 12+80.00



STA 12+60.00

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

MODEL: SHEET-RCLETRGNA - 13+00.00
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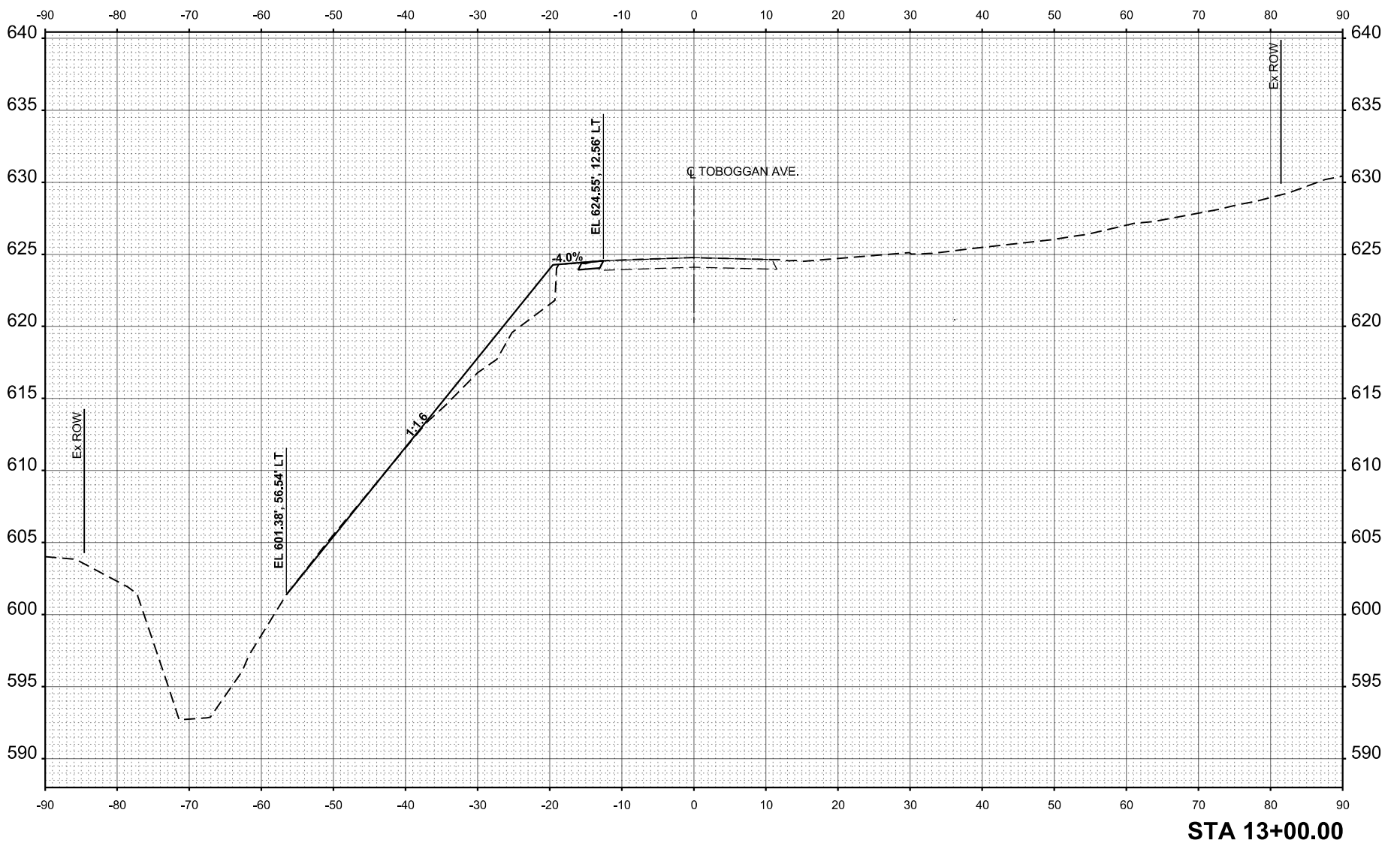
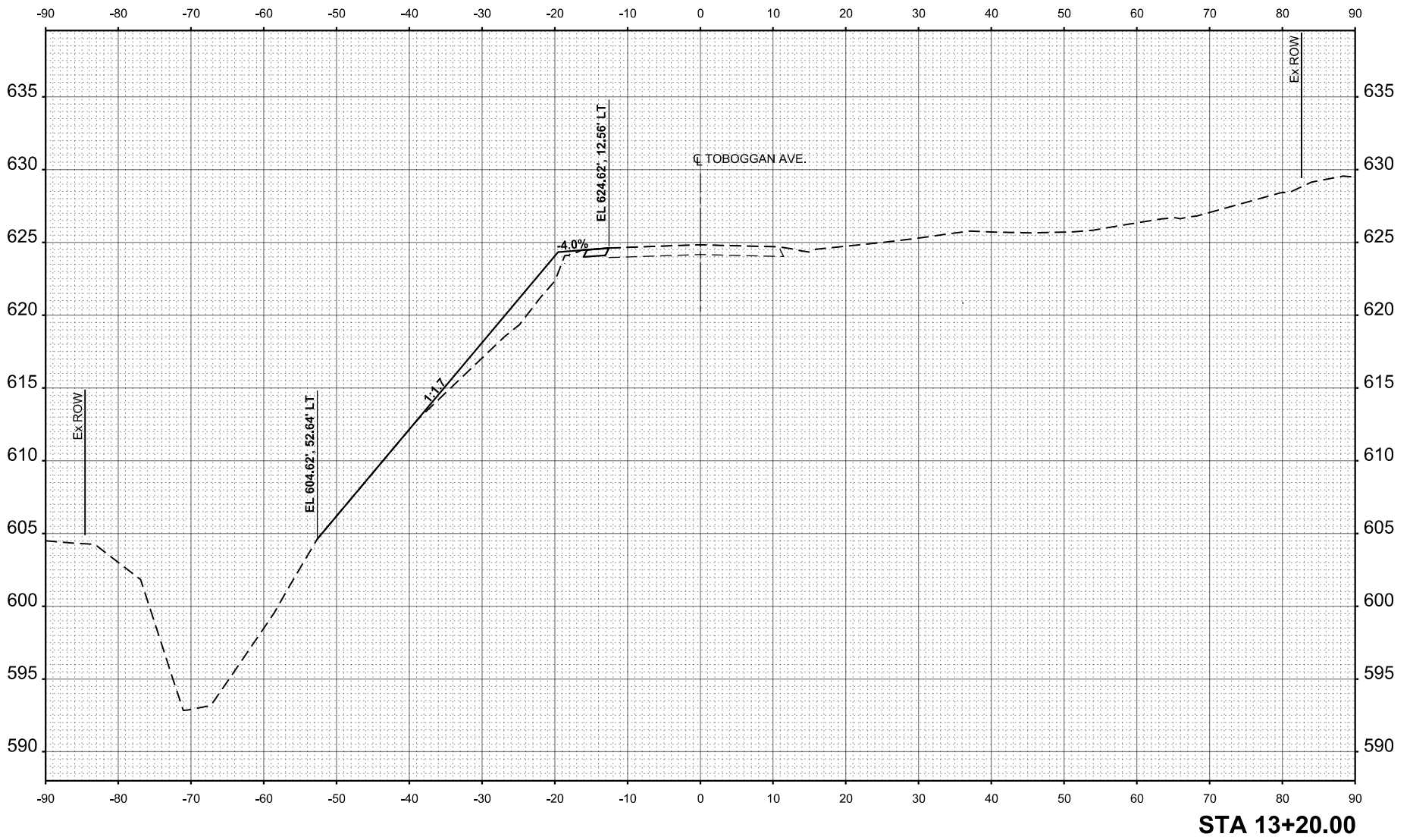
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TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

SCALE: _____
 SHEET 3 OF 5 SHEETS
 STA. 13+00.00 TO STA. 13+20.00

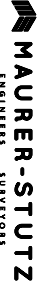
SECTION 22-00025-00-DR
 COUNTY TAZEWELL
 TOTAL SHEET NO. 40
 SHEETS 33



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

MODEL: SHEET-RCLETRGNA - 13+40.00
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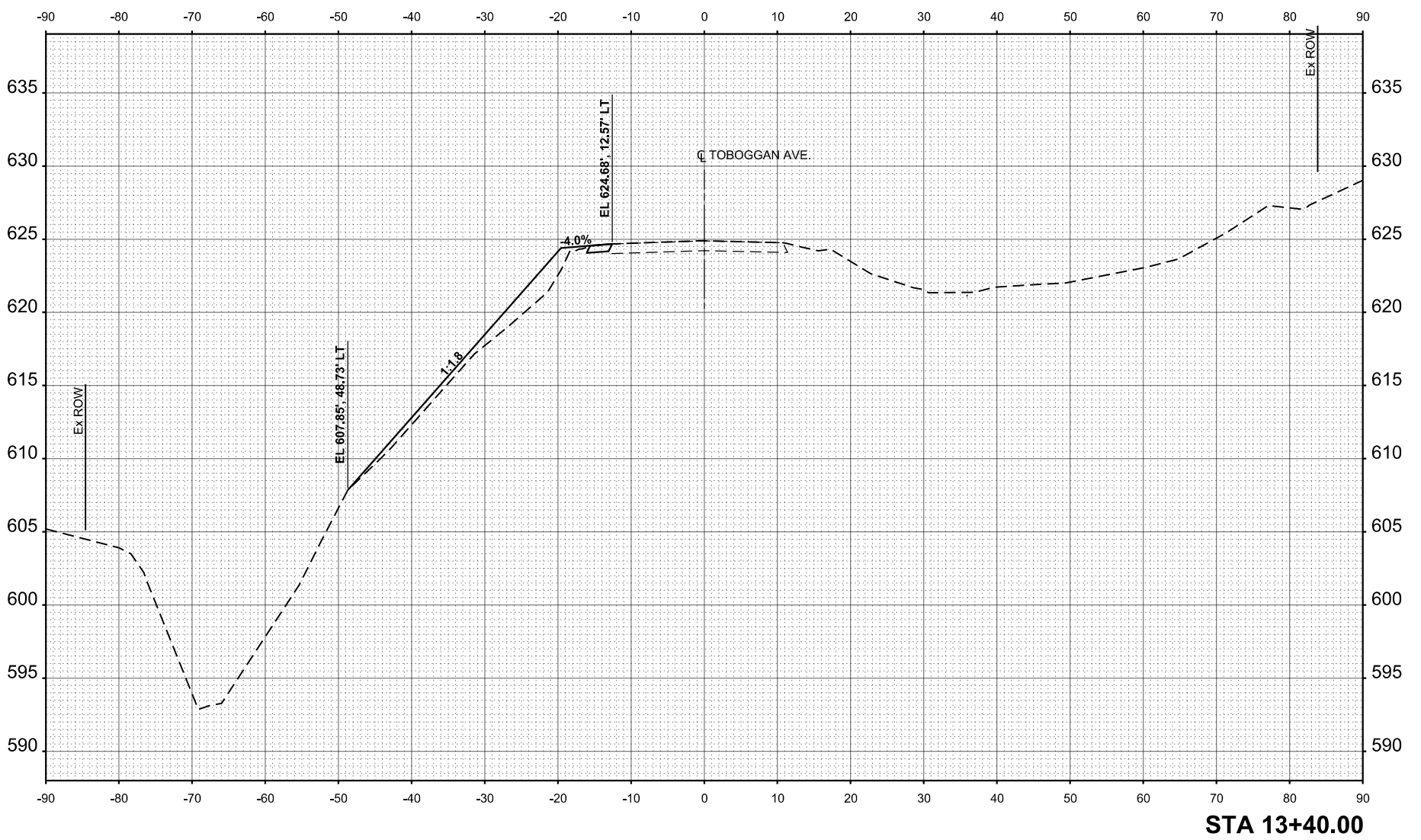
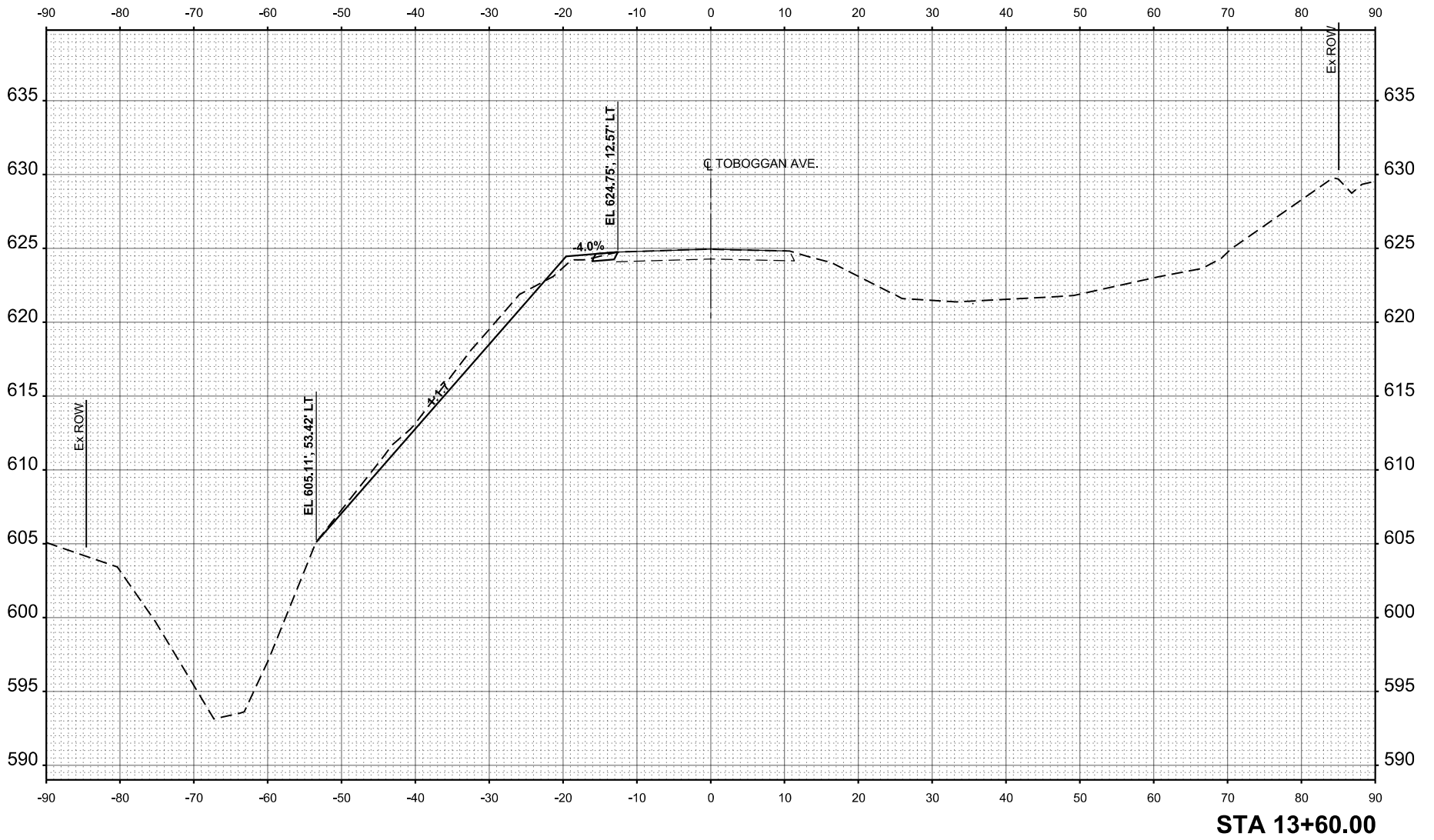
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TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

SCALE: SHEET 4 OF 5 SHEETS STA. 13+40.00 TO STA. 13+60.00
 TOBOGGAN AVENUE EMBANKMENT STABILITY
 WEST SLOPE REPAIR CROSS SECTIONS

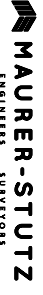
SECTION	COUNTY	TOTAL SHEET NO.
22-00025-00-DR	TAZEWELL	40
		34



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

MODEL: SHEET-RCLETRBNA - 13+69.35
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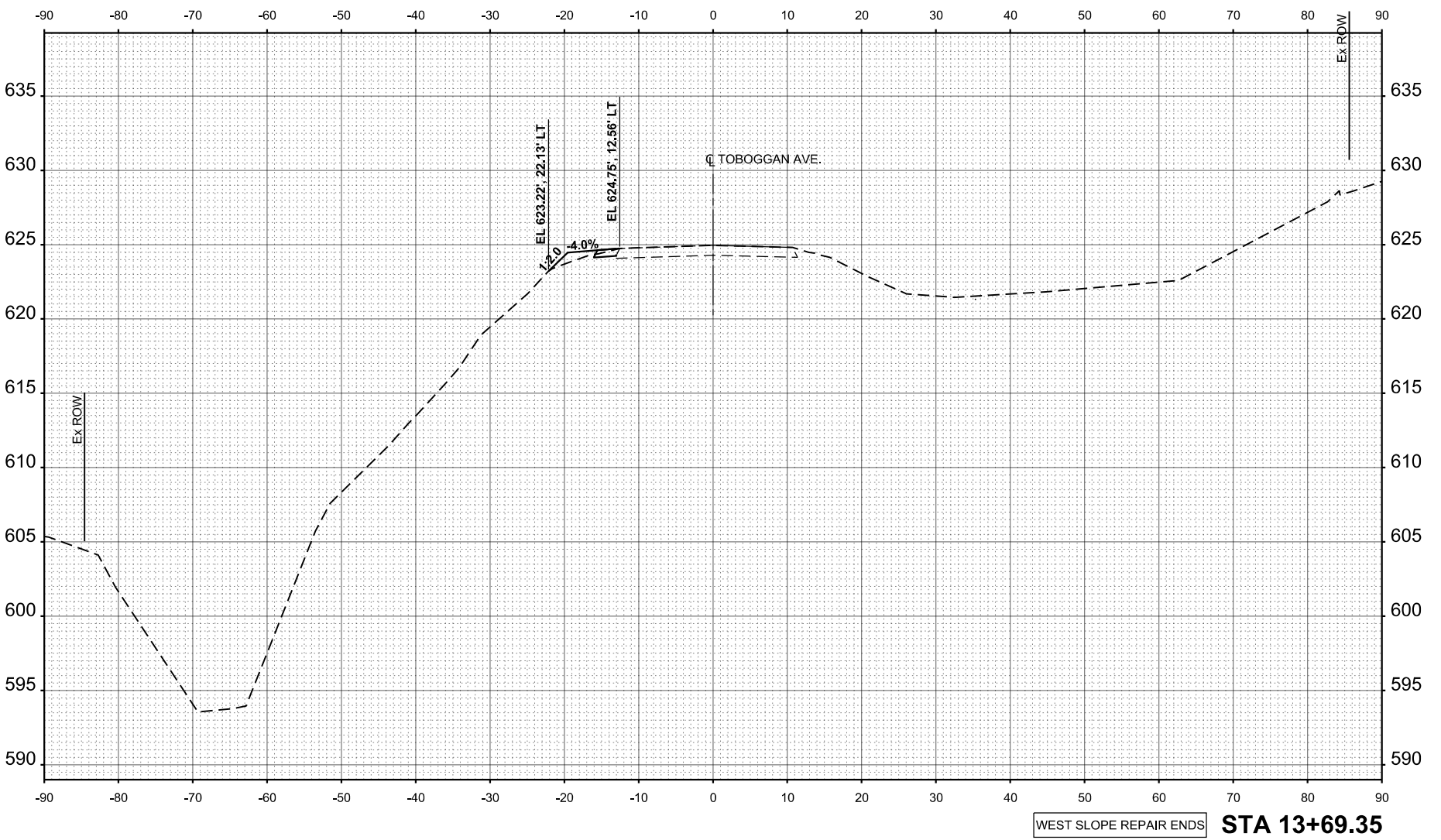
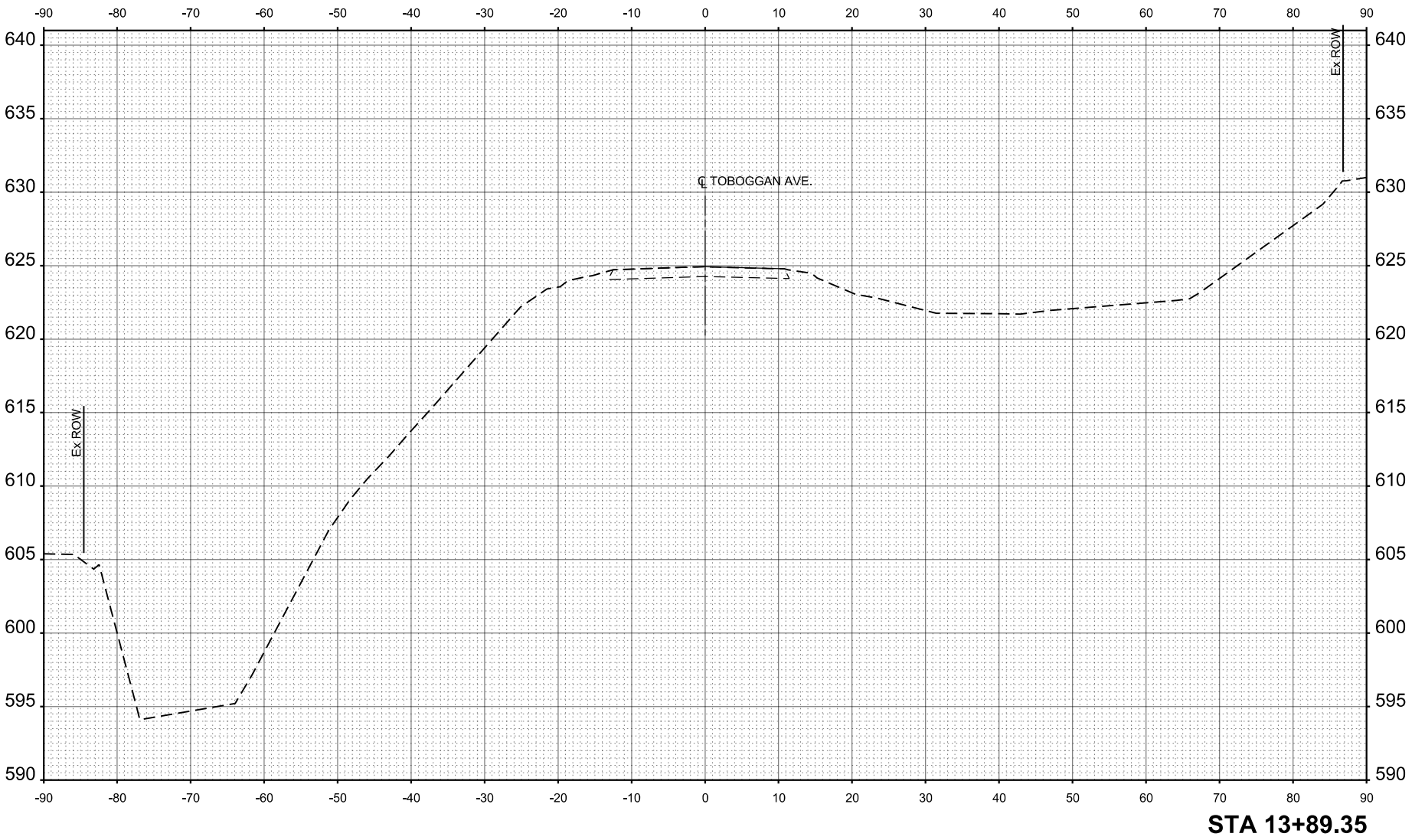
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TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

SCALE: _____
 SHEET 5 OF 5 SHEETS STA. 13+69.35 TO STA. 13+89.35

SECTION 22-00025-00-DR COUNTY TAZEWELL TOTAL SHEET SHEETS NO. 40 36



WEST SLOPE REPAIR ENDS STA 13+69.35

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

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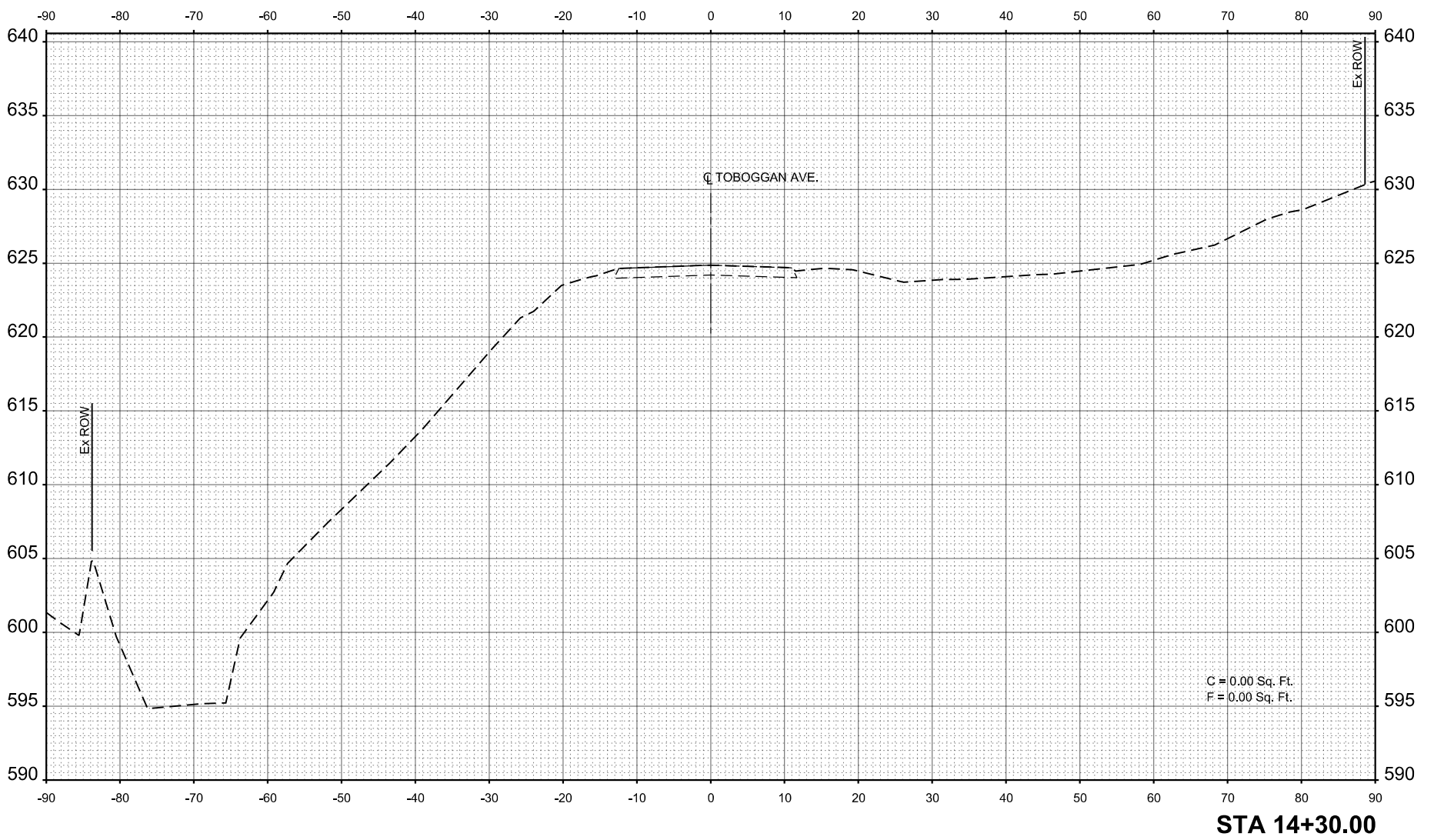
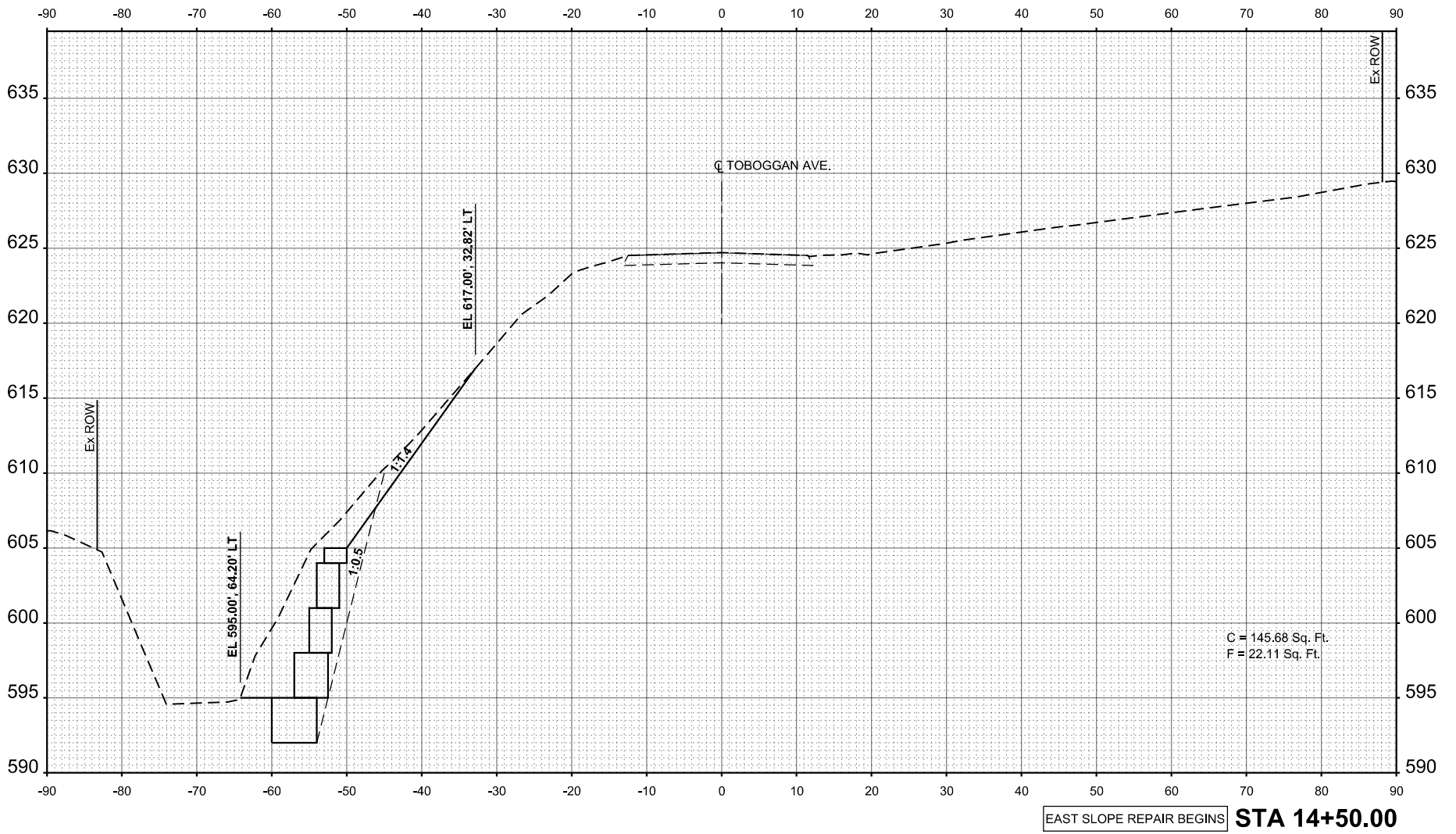
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 DATE -

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TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

SCALE: _____
 SHEET 1 OF 5 SHEETS
 STA. 14+30.00 TO STA. 14+50.00

SECTION	COUNTY	TOTAL SHEET NO.
22-00025-00-DR	TAZEWELL	40
		38



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

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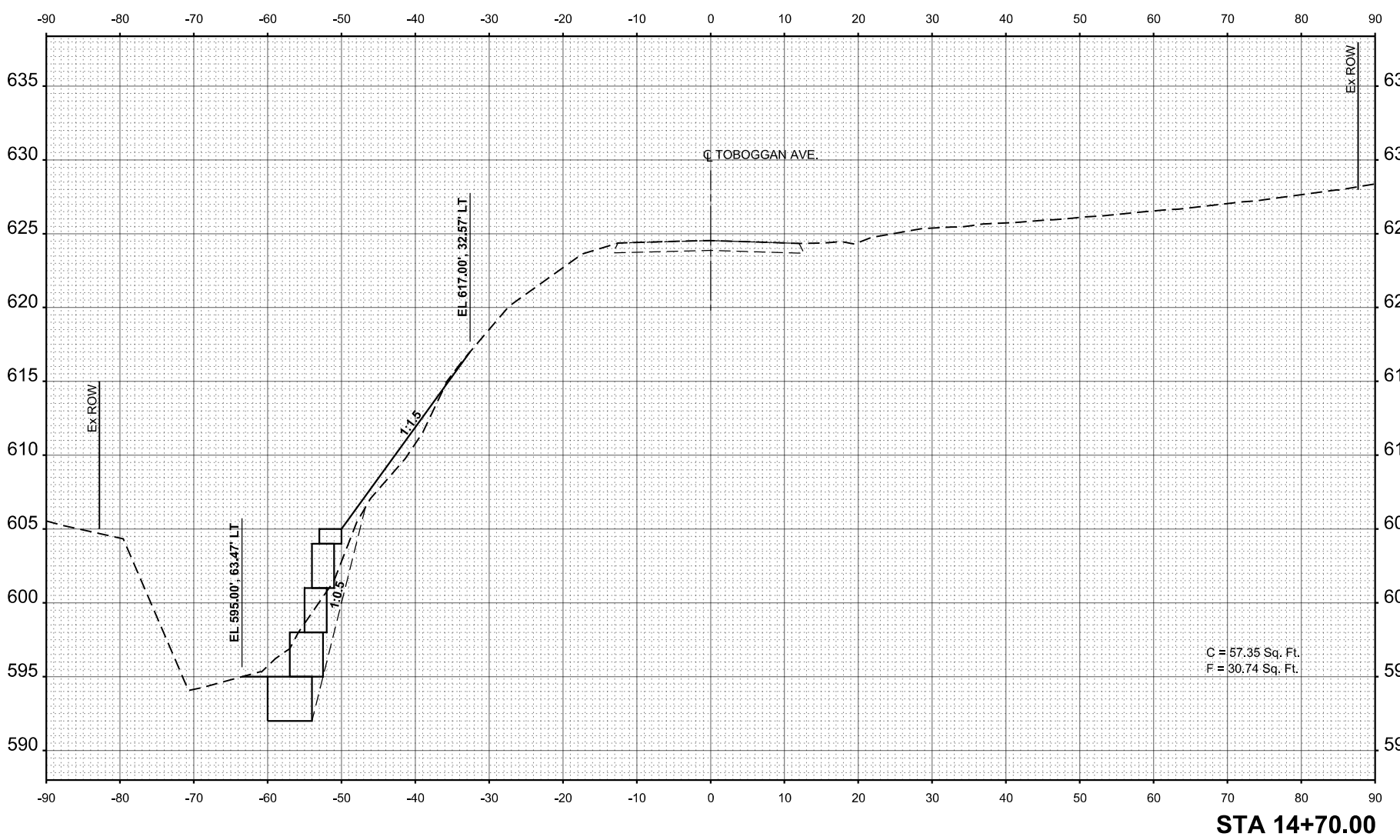
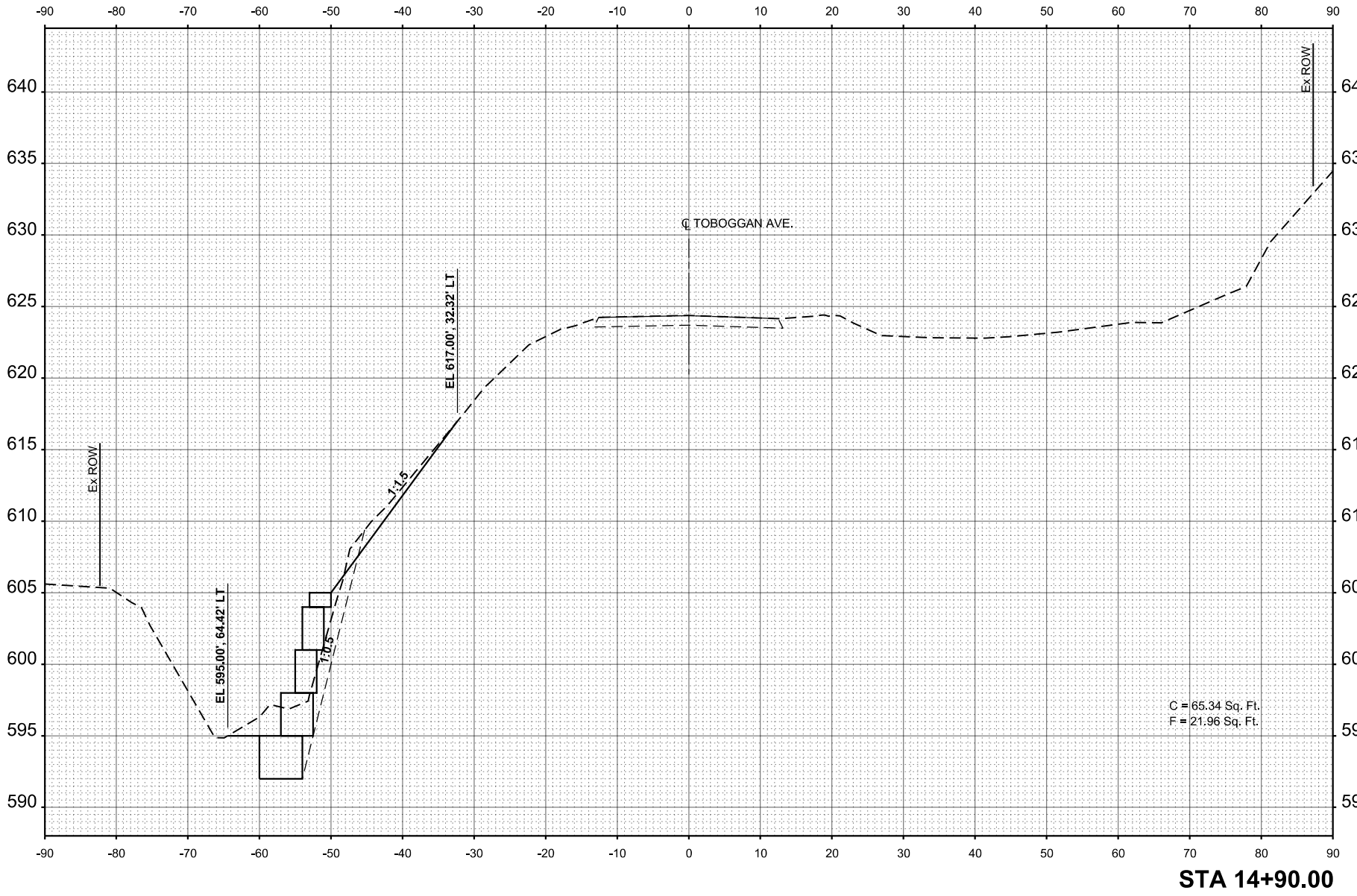
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TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

SCALE: _____
 SHEET 2 OF 5 SHEETS
 STA. 14+70.00 TO STA. 14+90.00

SECTION	COUNTY	TOTAL SHEET NO.
22-00025-00-DR	TAZEWELL	40
		37



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

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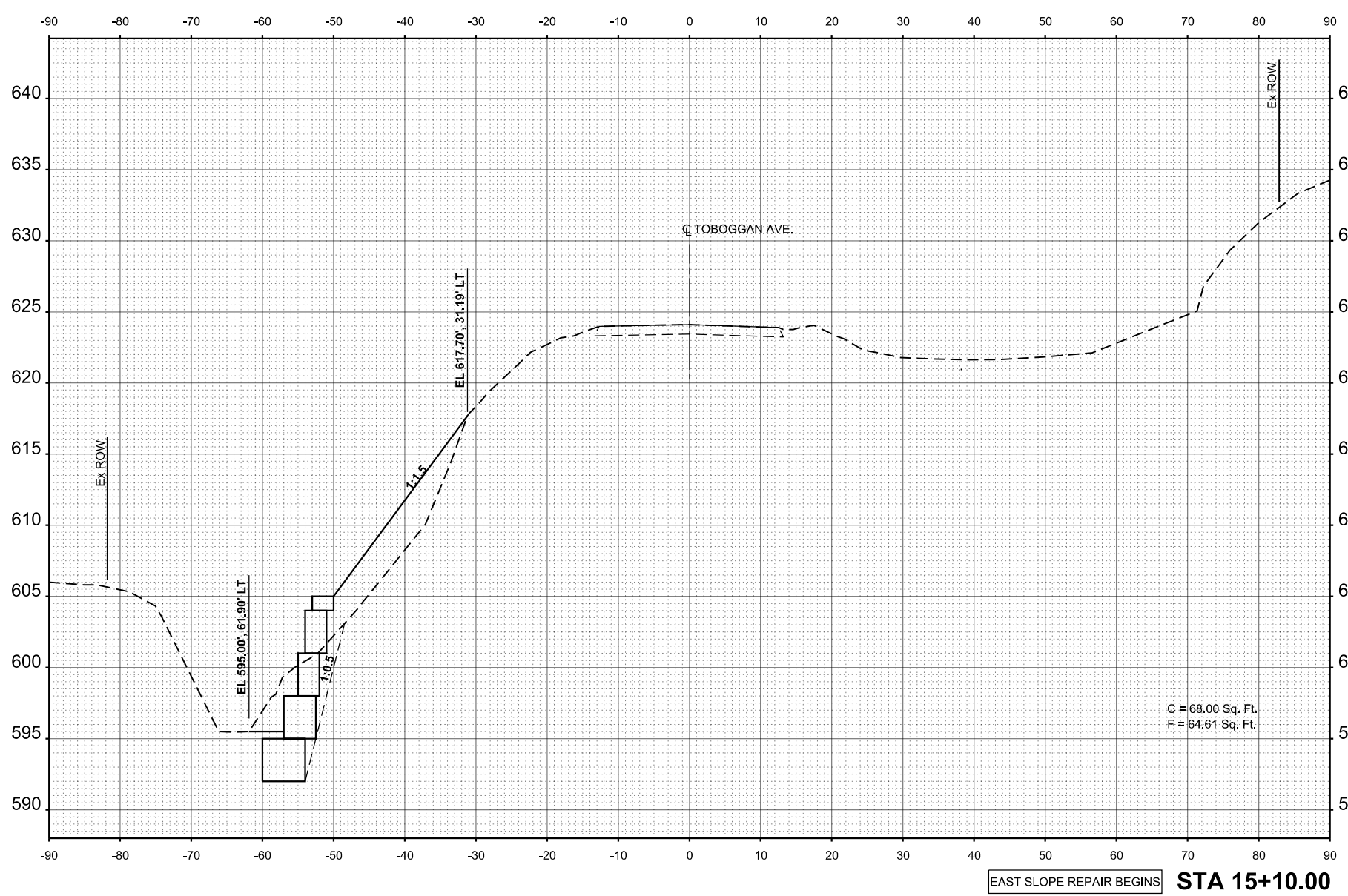
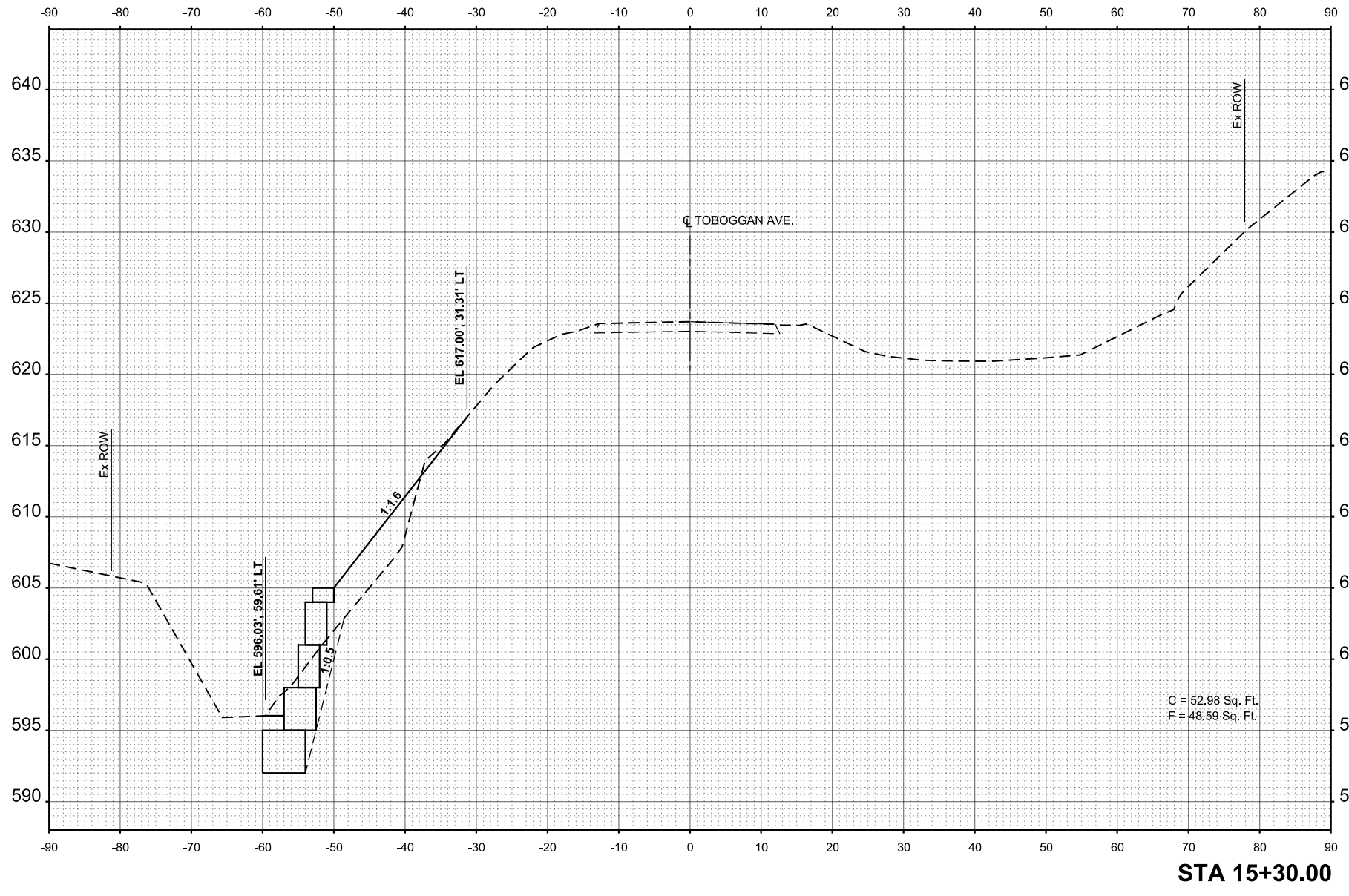
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TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

SCALE:
 SHEET 3 OF 5 SHEETS
 STA. 15+10.00 TO STA. 15+30.00

TOBOGGAN AVENUE EMBANKMENT STABILITY
 EAST SLOPE REPAIR CROSS SECTIONS

SECTION	COUNTY	TOTAL SHEET NO.
22-00025-00-DR	TAZEWELL	40
		38



EAST SLOPE REPAIR BEGINS STA 15+10.00

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

MODEL: SHEET-RCLETRBNA-1 - 15+50.00
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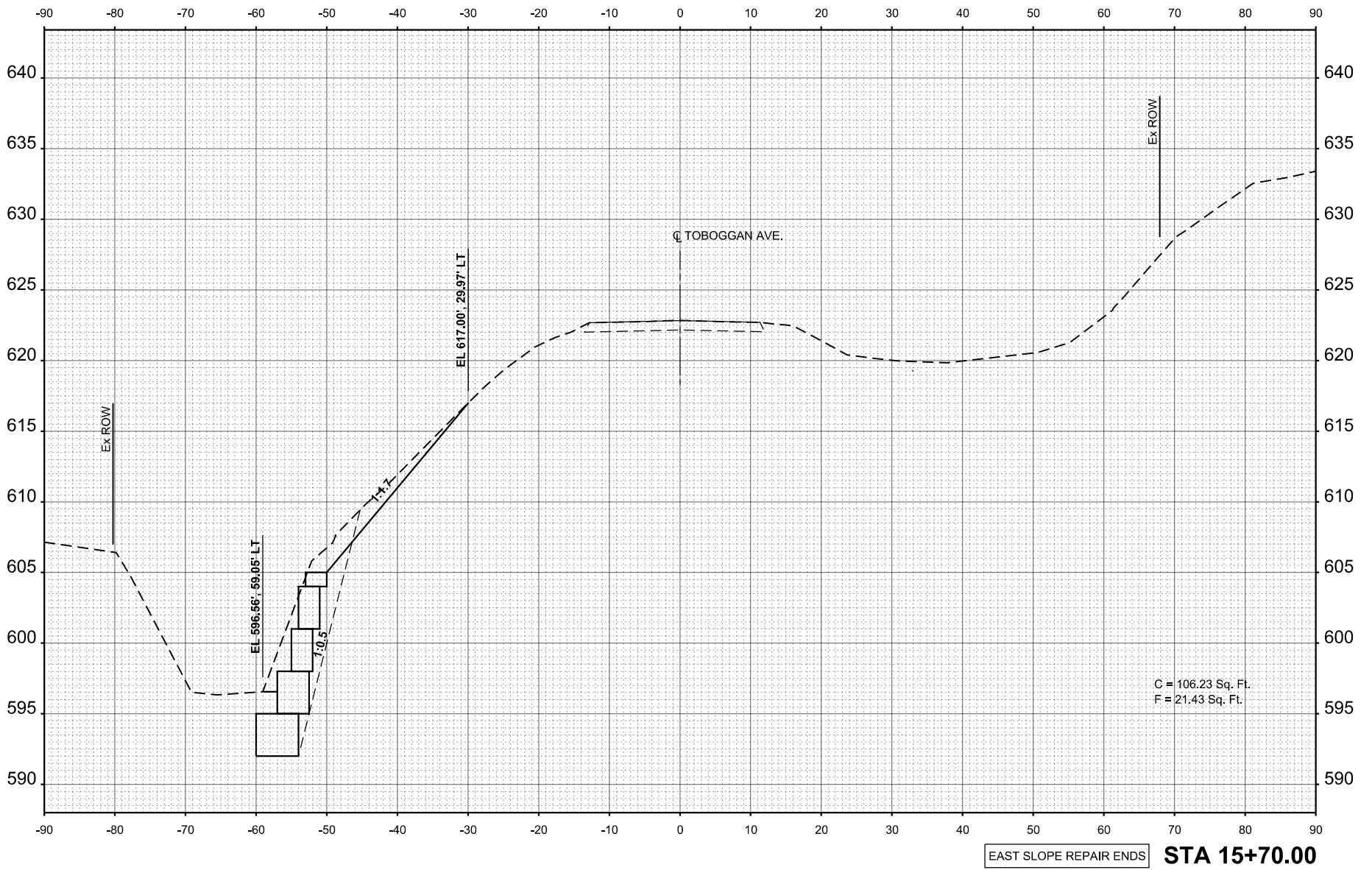
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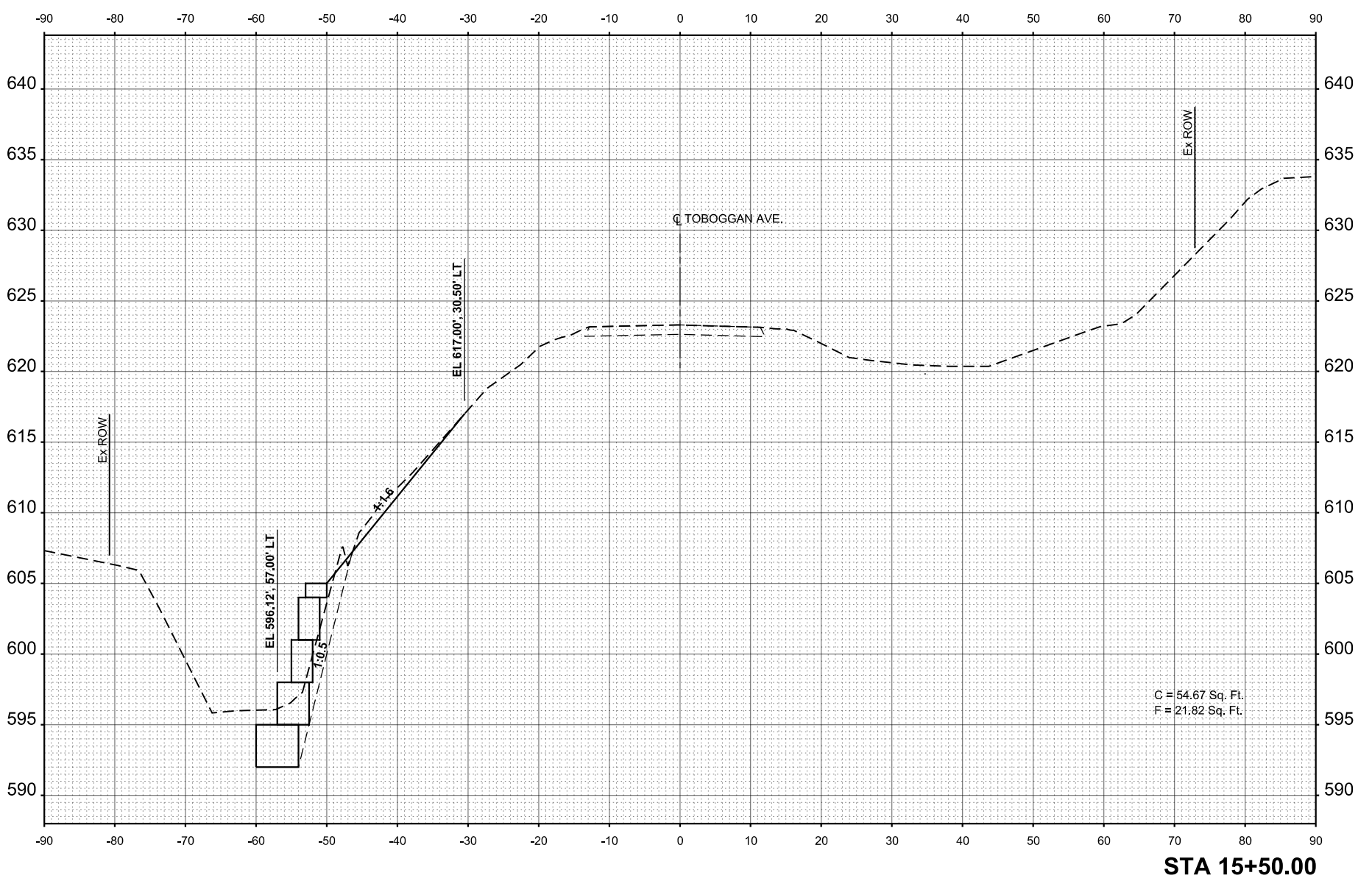
TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

SCALE: SHEET 4 OF 5 SHEETS STA. 15+50.00 TO STA. 15+70.00
 TOBOGGAN AVENUE EMBANKMENT STABILITY
 EAST SLOPE REPAIR CROSS SECTIONS

SECTION 22-00025-00-DR COUNTY TAZEWELL TOTAL SHEET SHEETS NO. 40 39



EAST SLOPE REPAIR ENDS **STA 15+70.00**



STA 15+50.00

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
NO. _____	AREAS CHECKED _____		

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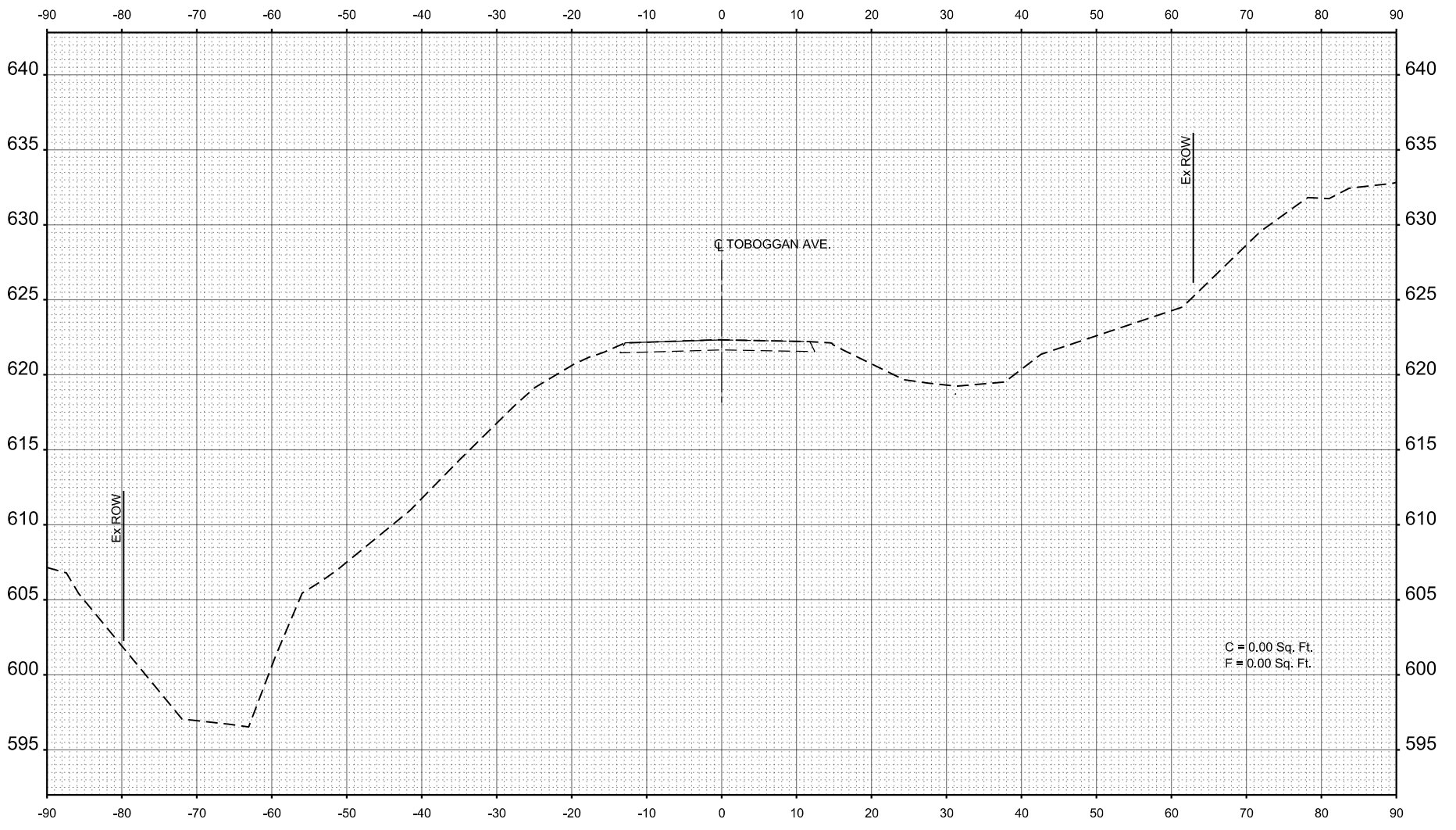
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TAZEWELL COUNTY
 HIGHWAY DEPARTMENT

SCALE: SHEET 5 OF 5 SHEETS STA. 15+90.00 TO STA. 15+90.00

TOBOGGAN AVENUE EMBANKMENT STABILITY
 EAST SLOPE REPAIR CROSS SECTIONS

SECTION	COUNTY	TOTAL SHEET NO.
22-00025-00-DR	TAZEWELL	40
		40



STA 15+90.00

ABV	ABOVE	CU YD	CUBIC YARD	HATCH	HATCHING	PM	PAVEMENT MARKING	STD	STANDARD
A/C	ACCESS CONTROL	CULV	CULVERT	HD	HEAD	PED	PEDESTAL	SBI	STATE BOND ISSUE
AC	ACRE	C&G	CURB & GUTTER	HDW	HEADWALL	PNT	POINT	SR	STATE ROUTE
ADJ	ADJUST	D	DEGREE OF CURVE	HDUTY	HEAVY DUTY	PC	POINT OF CURVATURE	STA	STATION
AS	AERIAL SURVEYS	DC	DEPRESSED CURVE	ha	HECTARE	PI	POINT OF INTERSECTION OF HORIZONTAL CURVE	SPBGR	STEEL PLATE BEAM GUARDRAIL
AGG	AGGREGATE	DET	DETECTOR	HMA	HOT MIX ASPHALT	PRC	POINT OF REVERSE CURVE	SS	STORM SEWER
AH	AHEAD	DIA	DIAMETER	HWY	HIGHWAY	PT	POINT OF TANGENCY	STY	STORY
APT	APARTMENT	DIST	DISTRICT	HORIZ	HORIZONTAL	POT	POINT ON TANGENT	ST	STREET
ASPH	ASPHALT	DOM	DOMESTIC	HSE	HOUSE	POLYETH	POLYETHYLENE	STR	STRUCTURE
AUX	AUXILIARY	DBL	DOUBLE	IL	ILLINOIS	PCC	PORTLAND CEMENT CONCRETE	e	SUPERELEVATION RATE
AGS	AUXILIARY GAS VALVE (SERVICE)	DSEL	DOWNSTREAM ELEVATION	IMP	IMPROVEMENT	PP	POWER POLE OR PRINCIPAL POINT	S.E. RUN.	SUPERELEVATION RUNOFF LENGTH
AVE	AVENUE	DSFL	DOWNSTREAM FLOWLINE	IN DIA	INCH DIAMETER	PRM	PRIME	SURF	SURFACE
AX	AXIS OF ROTATION	DR	DRAINAGE OR DRIVE	INL	INLET	PE	PRIVATE ENTRANCE	SMK	SURVEY MARKER
BK	BACK	DI	DRAINAGE INLET OR DROP INLET	INST	INSTALLATION	PROF	PROFILE	T	TANGENT DISTANCE
B-B	BACK TO BACK	DRV	DRIVEWAY	IDS	INTERSECTION DESIGN STUDY	PGL	PROFILE GRADELINE	T.R.	TANGENT RUNOUT DISTANCE
BKPL	BACKPLATE	DCT	DUCT	INV	INVERT	PROJ	PROJECT	TEL	TELEPHONE
B	BARN	EA	EACH	IP	IRON PIPE	P.C.	PROPERTY CORNER	TB	TELEPHONE BOX
BARR	BARRICADE	EB	EASTBOUND	IR	IRON ROD	PL	PROPERTY LINE	TP	TELEPHONE POLE
BL	BASELINE	EOP	EDGE OF PAVEMENT	JT	JOINT	PR	PROPOSED	TEMP	TEMPORARY
BGN	BEGIN	E-CL	EDGE TO CENTERLINE	kg	KILOGRAM	R	RADIUS or RESIDENTUAL	TBM	TEMPORARY BENCH MARK
BM	BENCHMARK	E-E	EDGE TO EDGE	km	KILOMETER	RR	RAILROAD	TD	TILE DRAIN
BIND	BINDER	ELEC	ELECRICAL	LS	LANDSCAPING	RRS	RAILROAD SPIKE	TBE	TO BE EXTENDED
BIT	BITUMINOUS	EL	ELEVATION	LN	LANE	RPS	REFERENCE POINT STAKE	TBR	TO BE REMOVED
BTM	BOTTOM	ENTR	ENTRANCE	LT	LEFT	REF	REFLECTIVE	TBS	TO BE SAVED
BLVD	BOULEVARD	EXC	EXCAVATION	LIDAR	LIGHT DETECTION AND RANGING	RCCP	REINFORCED CONCRETE CULVERT PIPE	TWP	TOWNSHIP
BRK	BRICK	EX	EXISTING	LP	LIGHT POLE	REINF	REINFORCEMENT	TR	TOWNSHIP ROAD
BBOX	BUFFALO BOX	EXPWAY	EXPRESSWAY	LGT	LIGHTING	REM	REMOVAL	TS	TRAFFIC SIGNAL
BLDG	BUILDING	E	EXTERNAL DISTANCE OF HORIZONTAL CURVE	LF	LINEAL FEET OR LINEAR FEET	RC	REMOVE CROWN	TSCB	TRAFFIC SIGNAL CONTROL BOX
CATV	CABLE	E	OFFSET DISTANCE TO VERTICAL CURVE	L	LITER OR CURVE LENGTH	REP	REPLACEMENT	TSC	TRAFFIC SYSTEMS CENTER
CIP	CAST IRON PIPE	F-F	FACE TO FACE	LC	LONG CHORD	REST	RESTAURANT	TRVS	TRANSVERSE
CB	CATCH BASIN	FA	FEDERAL AID	LNG	LONGITUDINAL	RESURF	RESURFACING	TRVL	TRAVEL
C-C	CENTER TO CENTER	FAI	FEDERAL AID INTERSTATE	L SUM	LUMP SUM	RET	RETAINING	TRN	TURN
CL	CENTERLINE OR CLEARANCE	FAP	FEDERAL AID PRIMARY	MACH	MACHINE	RT	RIGHT	TY	TYPE
CL-E	CENTERLINE TO EDGE	FAS	FEDERAL AID SECONDARY	MB	MAIL BOX	ROW	RIGHT-OF-WAY	T-A	TYPE A
CL-F	CENTERLINE TO FACE	FAUS	FEDERAL AID URBAN SECONDARY	MH	MANHOLE	RD	ROAD	TYP	TYPICAL
CTS	CENTERS	FP	FENCE POST	MATL	MATERIAL	RDWY	ROADWAY	UNDGND	UNDERGROUND
CERT	CERTIFIED	OPT	FIBER OPTIC	MED	MEDIAN	RTE	ROUTE	USGS	U.S. GEOLOGICAL SURVEY
CHSLD	CHISELED	FE	FIELD ENTRANCE	m	METER	SAN	SANITARY	USEL	UPSTREAM ELEVATION
CS	CITY STREET	FH	FIRE HYDRANT	METH	METHOD	SANS	SANITARY SEWER	USFL	UPSTREAM FLOWLINE
CP	CLAY PIPE	FL	FLOW LINE	M	MID-ORDINATE	SEC	SECTION	UTIL	UTILITY
CLSD	CLOSED	FB	FOOT BRIDGE	mm	MILLIMETER	SEED	SEEDING	VBOX	VALVE BOX
CLID	CLOSED LID	FDN	FOUNDATION	mm DIA	MILLIMETER DIAMETER	SHAP	SHAPING	VV	VALVE VAULT
CT	COAT OR COURT	FR	FRAME	MIX	MIXTURE	S	SHED	VLT	VAULT
COMB	COMBINATION	F&G	FRAME & GRATE	MBH	MOBILE HOME	SH	SHEET	VEH	VEHICLE
C	COMMERCIAL BUILDING	FRWAY	FREEWAY	MOD	MODIFIED	SHLD	SHOULDER	VP	VENT PIPE
CE	COMMERCIAL ENTRANCE	GAL	GALLON	MFT	MOTOR FUEL TAX	SW	SIDEWALK OR SOUTHWEST	VERT	VERTICAL
CONC	CONCRETE	GALV	GALVANIZED	N & BC	NAIL & BOTTLE CAP	SIG	SIGNAL	VC	VERTICAL CURVE
CONST	CONSTRUCT	G	GARAGE	N & C	NAIL & CAP	SOD	SODDING	VPC	VERTICAL POINT OF CURVATURE
CONTD	CONTINUED	GM	GAS METER	N & W	NAIL & WASHER	SM	SOLID MEDIATE	VPI	VERTICAL POINT OF INTERSECTION
CONT	CONTINUOUS	GV	GAS VALVE	NC	NORMAL CROWN	SB	SOUTHBOUND	VPT	VERTICAL POINT OF TANGENCY
COR	CORNER	GIS	GEOGRAPHICAL INFORMATION SYSTEM	NB	NORTHBOUND	SE	SOUTHEAST	WM	WATER METER
CORR	CORRUGATED	GRAN	GRANULAR	NE	NORTHEAST	SPL	SPECIAL	WV	WATER VALVE
CMP	CORRUGATED METAL PIPE	GR	GRATE	NW	NORTHWEST	SD	SPECIAL DITCH	WMAIN	WATER MAIN
CNTY	COUNTY	GRVL	GRAVEL	O/S	OFFSET	SQ FT	SQUARE FEET	WB	WESTBOUND
CH	COUNTY HIGHWAY	GND	GROUND	O&C	OIL AND CHIP	m ²	SQUARE METER	WILDFL	WILDFLOWERS
CSE	COURSE	GUT	GUTTER	OLID	OPEN LID	mm ²	SQUARE MILLIMETER	W	WITH
XSECT	CROSS SECTION	GP	GUY POLE	PAT	PATTERN	SQ YD	SQUARE YARD	WO	WITHOUT
m ³	CUBIC METER	GW	GUY WIRE	PVD	PAVED	STB	STABILIZED		
mm ³	CUBIC MILLIMETER	HH	HANDHOLE	PVMT	PAVEMENT				

Illinois Department of Transportation

RECEIVED January 1, 2021

APPROVED *[Signature]*
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-21	Updated fonts, abbreviations, and symbols.
1-1-19	Added new symbols.

STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS

(Sheet 1 of 9)

STANDARD 000001-08

<u>ADJUSTMENT ITEMS</u>		<u>EX</u>	<u>PR</u>	<u>ALIGNMENT ITEMS</u>		<u>EX</u>	<u>PR</u>	<u>DRAINAGE ITEMS</u>		<u>EX</u>	<u>PR</u>
Structure To Be Adjusted			ADJ	Baseline	_____	_____		Channel or Stream Line	-----	-----	
Structure To Be Cleaned			C	Centerline	_____	_____		Culvert Line	-----	_____	
Main Structure To Be Filled			FM	Centerline Break Circle		○	○	Grading & Shaping Ditches	-----	-----	
Structure To Be Filled			F	Baseline Symbol	⊥	⊥		Drainage Boundary Line	-----	-----	
Structure To Be Filled Special			FSP	Centerline Symbol		⊥		Paved Ditch	-----	-----	
Structure To Be Removed			R	PI Indicator	△	△		Aggregate Ditch	-----	-----	
Structure To Be Reconstructed			REC	Point Indicator	○	○		Pipe Underdrain	-----	-----	
Structure To Be Reconstructed Special			RSP	Horizontal Curve Data (Half Size)	EX. CURVE P.I. STA= Δ= D= R= T= L= E= e= T.R.= S.E. RUN= P.C. STA= P.T. STA=	CURVE P.I. STA= Δ= D= R= T= L= E= e= T.R.= S.E. RUN= P.C. STA= P.T. STA=		Storm Sewer	-----	-----	
Frame and Grate To Be Adjusted			A	<u>BOUNDARIES ITEMS</u>		<u>EX</u>	<u>PR</u>	Flowline	⊥	⊥	
Frame and Lid To Be Adjusted			A	Dashed Property Line	-----	-----		Ditch Check	◆	◆	
Domestic Service Box To Be Adjusted			A	Solid Property/Lot Line	_____	_____		Headwall	—	—	
Valve Vault To Be Adjusted			A	Section/Grant Line	-----	-----		Inlet	□	□	
Special Adjustment			SP	Quarter Section Line	-----	-----		Manhole	⊙	⊙	
Item To Be Abandoned			AB	Quarter/Quarter Section Line	-----	-----		Summit	↔	↔	
Item To Be Moved			M	County/Township Line	-----	-----		Roadway Ditch Flow	~→	~→	
Item To Be Relocated			REL	State Line	-----	-----		Swale	—▶	—▶	
Pavement Removal and Replacement				Chiseled Square Found	□	□		Catch Basin	○	●	
				Iron Pipe Found	○	○		Culvert End Section	◁	◁	
				Iron Pipe Set	●	●		Water Surface Indicator	▽	▽	
				Survey Marker	⊕	⊕		Riprap			
				Property Line Symbol	⊥	⊥		<u>HYDRAULICS ITEMS</u>		<u>EX</u>	<u>PR</u>
				Same Ownership Symbol (Half Size)	↗	↗		Overflow	↪	↪	
				Northwest Quarter Corner (Half Size)				Sheet Flow	↪	↪	
				Section Corner (Half Size)				Hydrant Outlet	➔	➔	
				Southeast Quarter Corner (Half Size)							

**STANDARD SYMBOLS,
ABBREVIATIONS,
AND PATTERNS**

(Sheet 2 of 9)

STANDARD 000001-08

Illinois Department of Transportation

APPROVED January 1, 2021
Michael Bond
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021
Scott E. G.
ENGINEER OF DESIGN AND ENVIRONMENT

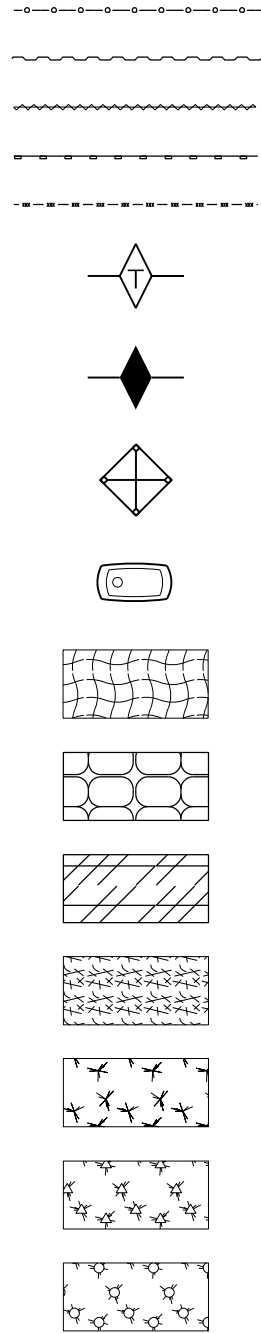
ISSUED 1-1-97

EROSION & SEDIMENT CONTROL ITEMS

EX

PR

- Cleaning & Grading Limits
- Dike
- Erosion Control Fence
- Perimeter Erosion Barrier
- Temporary Fence
- Ditch Check Temporary
- Ditch Check Permanent
- Inlet & Pipe Protection
- Sediment Basin
- Erosion Control Blanket
- Fabric Formed Concrete Revetment Mat
- Turf Reinforcement Mat
- Mulch Temporary
- Mulch Method 1
- Mulch Method 2 Stabilized
- Mulch Method 3 Hydraulic

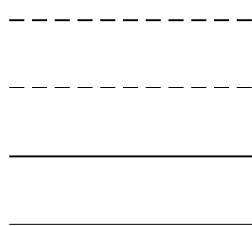


CONTOUR ITEMS

EX

PR

- Approx. Index Line
- Approx. Intermediate Line
- Index Contour
- Intermediate Contour

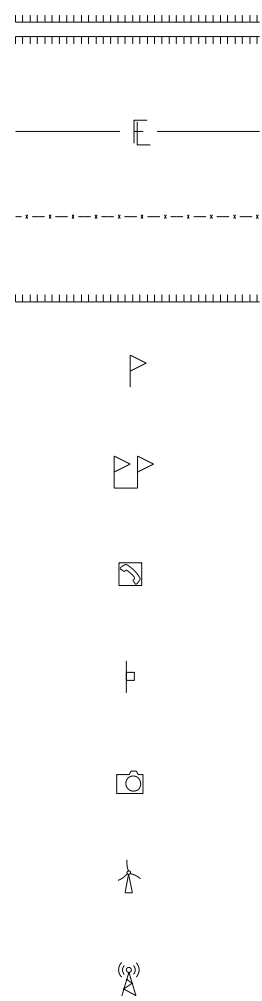


NON-HIGHWAY IMPROVEMENT ITEMS

EX

PR

- Noise Attn./Levee
- Field Line
- Fence
- Base of Levee
- Mailbox
- Multiple Mailboxes
- Pay Telephone
- Advertising Sign
- *ITS Camera
- Wind Turbine
- Cellular Tower
- *Intelligent Transportation Systems

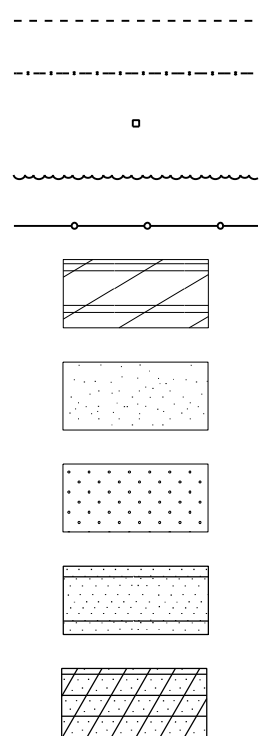


LANDSCAPING ITEMS

EX

PR

- Contour Mounding Line
- Fence
- Fence Post
- Shrubs
- Mowline
- Perennial Plants
- Seeding Class 2
- Seeding Class 2A
- Seeding Class 4
- Seeding Class 4 & 5 Combined

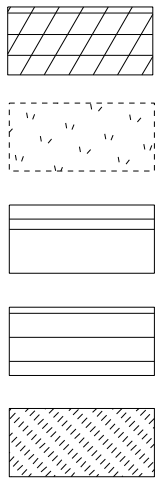


EXISTING LANDSCAPING ITEMS (contd.)

EX

PR

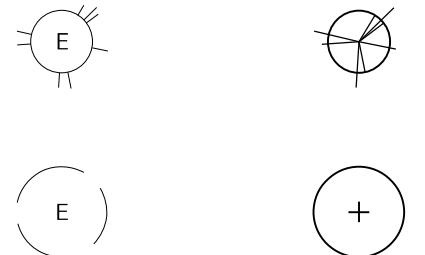
- Seeding Class 5
- Seeding Class 7
- Seedlings Type 1
- Seedlings Type 2
- Sodding



- Mowstake w/Sign
- Tree Trunk Protection



- Evergreen Tree
- Shade Tree

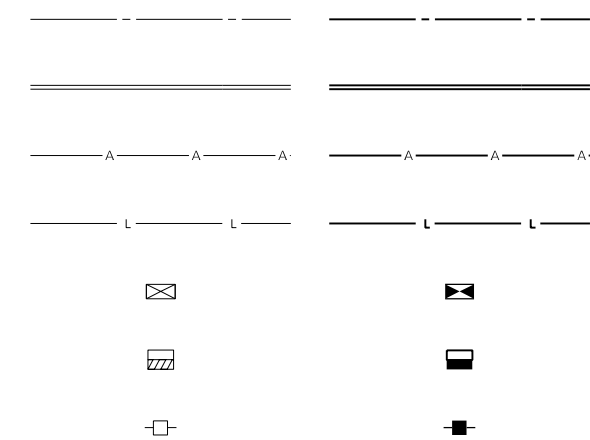


LIGHTING

EX

PR

- Duct
- Conduit
- Electrical Aerial Cable
- Electrical Buried Cable
- Controller
- Underpass Luminaire
- Power Pole



STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS

(Sheet 3 of 9)

STANDARD 000001-08

Illinois Department of Transportation

APPROVED January 1, 2021

 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2021

 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

**LIGHTING
(contd.)**

EX

PR

Pull Point



Handhole



Heavy Duty Handhole



Junction Box



Light Unit Comb.



Electrical Ground



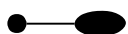
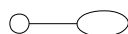
Traffic Flow Arrow



High Mast Pole
(Half Size)



Light Unit-1



PAVEMENT (MISC.)

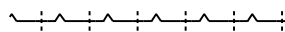
EX

PR

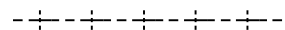
Keyed Long. Joint



Keyed Long. Joint w/Tie Bars



Sawed Long. Joint w/Tie Bars



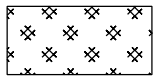
Bituminous Shoulder



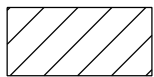
Bituminous Taper



Stabilized Driveway



Widening



PAVEMENT MARKINGS

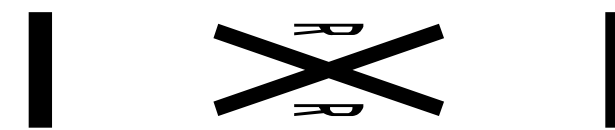
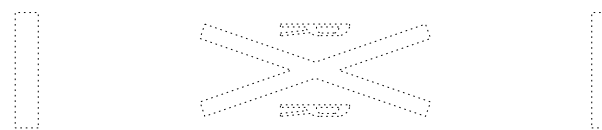
EX

PR

Handicap Symbol



RR Crossing



Raised Marker Amber 1 Way



Raised Marker Amber 2 Way



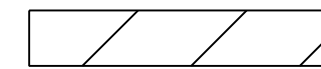
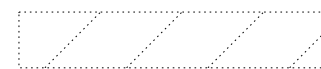
Raised Marker Crystal 1 Way



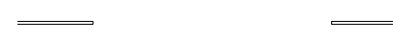
Two Way Turn Left



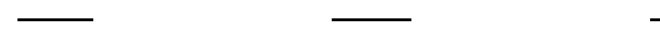
Shoulder Diag. Pattern



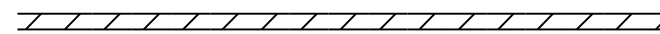
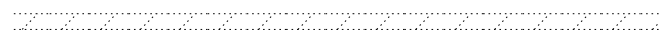
Skip-Dash White



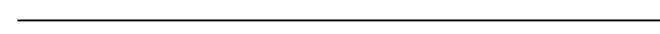
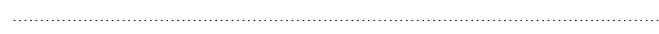
Skip-Dash Yellow



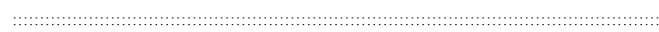
Stop Line



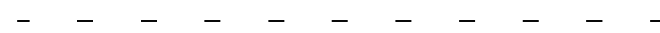
Solid Line



Double Centerline



Dotted Lines



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**STANDARD SYMBOLS,
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(Sheet 4 of 9)

STANDARD 000001-08

PAVEMENT MARKINGS
(contd.)

CL 2Ln 2Way
RRPM 12.2 m (40') o.c.

CL 2Ln 2Way
RRPM 80' (24.4 m) o.c.

CL Multilane Div.
RRPM 40' (12.2 m) o.c.

CL Multilane Div.
RRPM 80' (24.4 m) o.c.

CL Multilane Div. Dbl.
RRPM 80' (24.4 m) o.c.

CL Multilane Undiv.

Two Way Turn Left Line

Urban Combination Left

Urban Combination Right

Urban Left Turn Arrow

Urban Right Turn Arrow

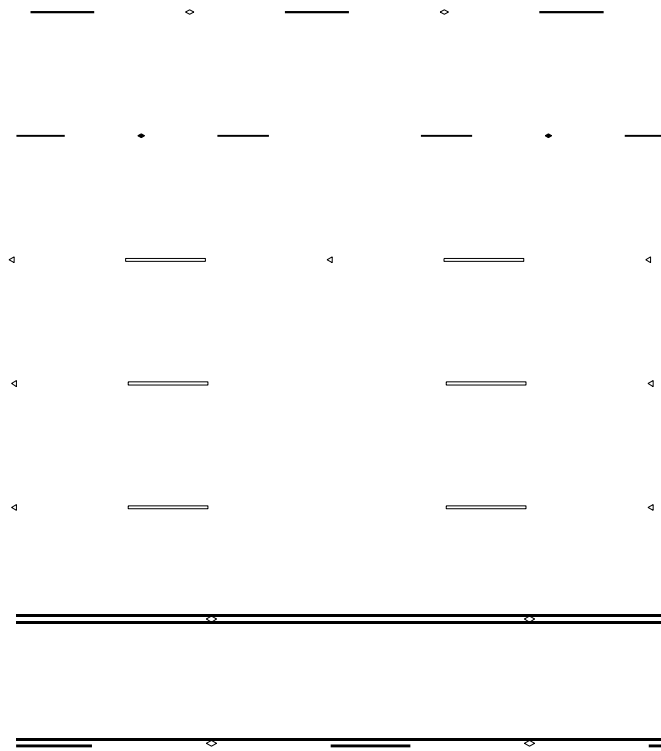
Urban Left Turn Only

Urban Right Turn Only

Urban Thru Only

EX

PR



ONLY
ONLY
ONLY

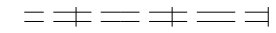


RAILROAD ITEMS

EX

PR

Abandoned Railroad



Railroad



Railroad Point



Control Box



Crossing Gate



Flashing Signal



Railroad Cant. Mast Arm



Crossbuck

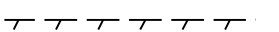


REMOVAL ITEMS

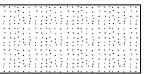
EX

PR

Removal Tic



Bituminous Removal



Hatch Pattern



Tree Removal Single



RIGHT OF WAY ITEMS

EX

PR

Future ROW Corner Monument



ROW Marker



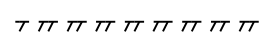
ROW Line



Easement



Temporary Easement



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Urban LT & RT Turn Arrow

Urban Thru Arrow

**STANDARD SYMBOLS,
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AND PATTERNS**

(Sheet 5 of 9)

STANDARD 000001-08

PAVEMENT MARKINGS
(contd.)

EX

PR

Urban U-Turn



Urban Combined U-Turn



Rural Combination Left



Rural Combination Right



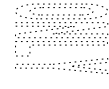
Rural Left Turn Arrow



Rural Right Turn Arrow

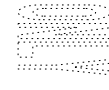


Rural Left Turn Only

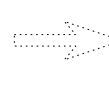
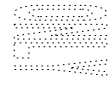


ONLY ONLY ONLY

Rural Right Turn Only



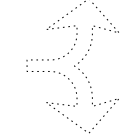
Rural Thru Only



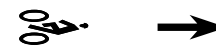
Rural Thru Arrow



Rural Lt & Rt Turn Arrow



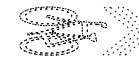
Bike Lane Symbol



Bike Lane Text



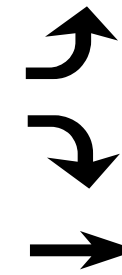
Bike Path Shared



Bike Shared Roadway



Lane Drop Symbol



Wrong Way Arrow

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**STANDARD SYMBOLS,
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 (Sheet 6 of 9)
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**RIGHT OF WAY ITEMS
(contd.)**

	<u>EX</u>	<u>PR</u>
Access Control Line		
Access Control Line & ROW		
Access Control Line & ROW with Fence		
Excess ROW Line		

**ROADWAY PLAN
ITEMS**

	<u>EX</u>	<u>PR</u>
Cable Barrier		
Concrete Barrier		
Edge of Pavement		
Bit Shoulders, Medians and C&G Line		
Aggregate Shoulder		
Sidewalks, Driveways		
Guardrail		
Guardrail Post		
Traffic Sign		
Corrugated Median		
Impact Attenuator		
North Arrow with District Office (Half Size)		
Match Line		
Slope Limit Line		
Typical Cross-Section Line		

ROADWAY PROFILES

	<u>EX</u>	<u>PR</u>
P.I. Indicator		
Point Indicator		
Earthworks Balance Point		
Begin Point		
Vert. Curve Data	VPI = ELEV = L = E =	VPI = ELEV = L = E =
Ditch Profile Left Side		
Ditch Profile Right Side		
Roadway Profile Line		
Storm Sewer Profile Left Side		
Storm Sewer Profile Right Side		

SIGNING ITEMS

	<u>EX</u>	<u>PR</u>
Cone, Drum or Barricade		
Barricade Type II		
Barricade Type III		
Barricade With Edge Line		
Flashing Light Sign		
Panels I		
Panels II		
Direction of Traffic		
Sign Flag (Half Size)		

**SIGNING ITEMS
(contd.)**

	<u>EX</u>	<u>PR</u>
Reverse Left W1-4L (Half Size)		
Reverse Right W1-4R (Half Size)		
Two Way Traffic Sign W6-3 (Half Size)		
Detour Ahead W20-2(O) (Half Size)		
Left Lane Closed Ahead W20-5L(O) (Half Size)		
Right Lane Closed Ahead W20-5R(O) (Half Size)		
Road Closed Ahead W20-3(O) (Half Size)		
Road Construction Ahead W20-1(O) (Half Size)		
Single Lane Ahead (Half Size)		
Transition Left W4-2L (Half Size)		
Transition Right W4-2R (Half Size)		

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**STANDARD SYMBOLS,
ABBREVIATIONS,
AND PATTERNS**

(Sheet 7 of 9)

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SIGNING ITEMS
(contd.)

EX

PR

One Way Arrow Lrg. W1-6-(O)
(Half Size)



Two Way Arrow Large W1-7-(O)
(Half Size)



Detour M4-10L-(O)
(Half Size)



Detour M4-10R-(O)
(Half Size)



One Way Left R6-1L
(Half Size)



One Way Right R6-1R
(Half Size)



Left Turn Lane R3-1100L
(Half Size)



Keep Left R4-7AL
(Half Size)



Keep Left R4-7BL
(Half Size)



Keep Right R4-7AR
(Half Size)



Keep Right R4-7BR
(Half Size)



Stop Here On Red R10-6-AL
(Half Size)



Stop Here On Red R10-6-AR
(Half Size)



No Left Turn R3-2
(Half Size)



No Right Turn R3-1
(Half Size)



Road Closed R11-2
(Half Size)



Road Closed Thru Traffic R11-2
(Half Size)

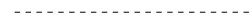


STRUCTURES ITEMS

EX

PR

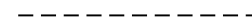
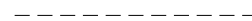
Box Culvert Barrel



Box Culvert Headwall



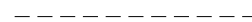
Bridge Pier



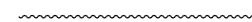
Bridge



Retaining Wall



Temporary Sheet Piling



TRAFFIC SHEET ITEMS

EX

PR

Cable Number



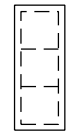
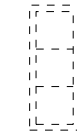
Left Turn Green



Left Turn Yellow



Signal Backplate



Signal Section 8" (200 mm)



Signal Section 12" (300 mm)



Walk/Don't Walk Letters



Walk/Don't Walk Symbols

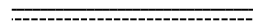
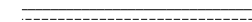


TRAFFIC SIGNAL ITEMS

EX

PR

Galv. Steel Conduit



Underground Cable



Detector Loop Line



Detector Loop Large



Detector Loop Small



Detector Loop Quadrapole



**STANDARD SYMBOLS,
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(Sheet 8 of 9)

STANDARD 000001-08

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**TRAFFIC SIGNAL
ITEMS (contd.)**

EX

PR

Detector Raceway



Aluminum Mast Arm



Steel Mast Arm



Veh. Detector Magnetic



Conduit Splice



Controller



Gulfbox Junction



Wood Pole



Temp. Signal Head



Handhole



Double Handhole



Heavy Duty Handhole



Junction Box



Ped. Pushbutton Detector



Ped. Signal Head



Power Pole Service



Priority Veh. Detector



Signal Head



Signal Head w/Backplate



Signal Post



Closed Circuit TV



Video Detector System



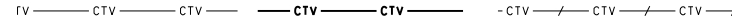
**UNDERGROUND
UTILITY ITEMS**

EX

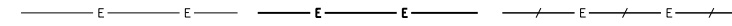
PR

ABANDONED

Cable TV



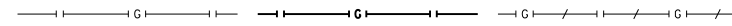
Electric Cable



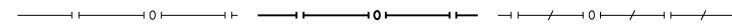
Fiber Optic



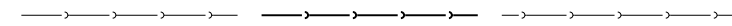
Gas Pipe



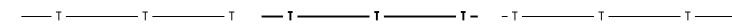
Oil Pipe



Sanitary Sewer



Telephone Cable



Water Pipe



UTILITIES ITEMS

EX

PR

Controller



Double Handhole



Fire Hydrant



GuyWire or Deadman Anchor



Handhole



Heavy Duty Handhole



Junction Box



Light Pole



Manhole



Monitoring Well (Gasoline)



Pipeline Warning Sign



Power Pole



Power Pole with Light



Sanitary Sewer Cleanout



Splice Box Above Ground



Telephone Splice Box Above Ground



Telephone Pole



**UTILITY ITEMS
(contd.)**

EX

PR

Traffic Signal



Traffic Signal Control Box



Water Meter



Water Meter Valve Box



Profile Line



Aerial Power Line



VEGETATION ITEMS

EX

PR

Deciduous Tree



Bush or Shrub



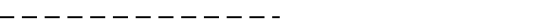
Evergreen Tree



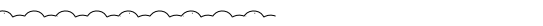
Stump



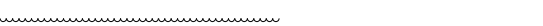
Orchard/Nursery Line



Vegetation Line



Woods & Bush Line

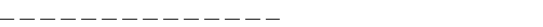


**WATER FEATURE
ITEMS**

EX

PR

Stream or Drainage Ditch



Waters Edge



Water Surface Indicator



Water Point



Disappearing Ditch



Marsh



Marsh/Swamp Boundary



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STANDARD 000001-08

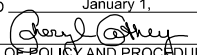
DECIMAL OF AN INCH AND OF A FOOT

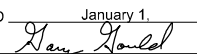
A		B		A		B		A		B		A		B			
1/64	0.0052	1/16	11/64	0.171875	2 1/16	11/32	0.3385	4 1/16	33/64	0.5052	6 1/16	43/64	0.671875	8 1/16	27/32	0.8385	10 1/16
	0.0104	1/8		0.1771	2 1/8		0.34375	4 1/8		0.5104	6 1/8		0.6771	8 1/8		0.84375	10 1/8
	0.015625	3/16		0.1823	2 3/16		0.3490	4 3/16		0.515625	6 3/16		0.6823	8 3/16		0.8490	10 3/16
	0.0208	1/4		0.1875	2 1/4		0.3542	4 1/4		0.5208	6 1/4		0.6875	8 1/4		0.8542	10 1/4
1/32	0.0260	5/16	13/64	0.1927	2 5/16	23/64	0.359375	4 5/16	17/32	0.5260	6 5/16	45/64	0.6927	8 5/16	55/64	0.859375	10 5/16
	0.03125	3/8		0.1979	2 3/8		0.3646	4 3/8		0.53125	6 3/8		0.6979	8 3/8		0.8646	10 3/8
	0.0365	7/16		0.203125	2 7/16		0.3698	4 7/16		0.5365	6 7/16		0.703125	8 7/16		0.8698	10 7/16
	0.0417	1/2		0.2083	2 1/2		0.3750	4 1/2		0.5417	6 1/2		0.7083	8 1/2		0.8750	10 1/2
3/64	0.046875	9/16	7/32	0.2135	2 9/16	25/64	0.3802	4 9/16	35/64	0.546875	6 9/16	23/32	0.7135	8 9/16	57/64	0.8802	10 9/16
	0.0521	5/8		0.21875	2 5/8		0.3854	4 5/8		0.5521	6 5/8		0.71875	8 5/8		0.8854	10 5/8
	0.0573	1 1/16		0.2240	2 1 1/16		0.390625	4 1 1/16		0.5573	6 1 1/16		0.7240	8 1 1/16		0.890625	10 1 1/16
	0.0625	3/4		0.2292	2 3/4		0.3958	4 3/4		0.5625	6 3/4		0.7292	8 3/4		0.8958	10 3/4
1/16	0.0677	13/16	15/64	0.234375	2 13/16	13/32	0.4010	4 13/16	9/16	0.5677	6 13/16	47/64	0.734375	8 13/16	29/32	0.9010	10 13/16
	0.0729	7/8		0.2396	2 7/8		0.40625	4 7/8		0.5729	6 7/8		0.7396	8 7/8		0.90625	10 7/8
	0.078125	15/16		0.2448	2 15/16		0.4115	4 15/16		0.578125	6 15/16		0.7448	8 15/16		0.9115	10 15/16
	0.0833	1		0.2500	3		0.4167	5		0.5833	7		0.7500	9		0.9167	11
3/32	0.0885	1 1/16	17/64	0.2552	3 1/16	27/64	0.421875	5 1/16	19/32	0.5885	7 1/16	49/64	0.7552	9 1/16	59/64	0.921875	11 1/16
	0.09375	1 1/8		0.2604	3 1/8		0.4271	5 1/8		0.59375	7 1/8		0.7604	9 1/8		0.9271	11 1/8
	0.0990	1 3/16		0.265625	3 3/16		0.4323	5 3/16		0.5990	7 3/16		0.765625	9 3/16		0.9323	11 3/16
	0.1042	1 1/4		0.2708	3 1/4		0.4375	5 1/4		0.6042	7 1/4		0.7708	9 1/4		0.9375	11 1/4
7/64	0.109375	1 5/16	9/32	0.2760	3 5/16	29/64	0.4427	5 5/16	39/64	0.609375	7 5/16	25/32	0.7760	9 5/16	61/64	0.9427	11 5/16
	0.1146	1 3/8		0.28125	3 3/8		0.4479	5 3/8		0.6146	7 3/8		0.78125	9 3/8		0.9479	11 3/8
	0.1198	1 7/16		0.2865	3 7/16		0.453125	5 7/16		0.6198	7 7/16		0.7865	9 7/16		0.953125	11 7/16
	0.1250	1 1/2		0.2917	3 1/2		0.4583	5 1/2		0.6250	7 1/2		0.7917	9 1/2		0.9583	11 1/2
9/64	0.1302	1 9/16	19/64	0.296875	3 9/16	15/32	0.4635	5 9/16	41/64	0.6302	7 9/16	51/64	0.796875	9 9/16	31/32	0.9635	11 9/16
	0.1354	1 5/8		0.3021	3 5/8		0.46875	5 5/8		0.6354	7 5/8		0.8021	9 5/8		0.96875	11 5/8
	0.140625	1 11/16		0.3073	3 11/16		0.4740	5 11/16		0.640625	7 11/16		0.8073	9 11/16		0.9740	11 11/16
	0.1458	1 3/4		0.3125	3 3/4		0.4792	5 3/4		0.6458	7 3/4		0.8125	9 3/4		0.9792	11 3/4
5/32	0.1510	1 13/16	21/64	0.3177	3 13/16	31/64	0.484375	5 13/16	21/32	0.6510	7 13/16	53/64	0.8177	9 13/16	63/64	0.984375	11 13/16
	0.15625	1 7/8		0.3229	3 7/8		0.4896	5 7/8		0.65625	7 7/8		0.8229	9 7/8		0.9896	11 7/8
	0.1615	1 15/16		0.328125	3 15/16		0.4948	5 15/16		0.6615	7 15/16		0.828125	9 15/16		0.9948	11 15/16
	0.1667	2		0.3333	4		0.5000	6		0.6667	8		0.8333	10		1.0000	12

A = Fractions of Inch or Foot

B = Inch Equivalents to Foot Fractions

Illinois Department of Transportation

APPROVED January 1, 1997

 ENGINEER OF POLICY AND PROCEDURES

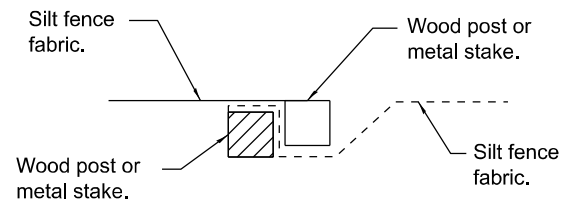
APPROVED January 1, 1997

 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-97	New Standard.

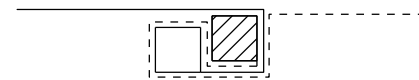
**DECIMAL OF AN INCH
AND OF A FOOT**

STANDARD 001006



Place end-post (stake) of first silt fence adjacent to end-post (stake) of second silt fence with fabric positioned as shown.

STEP 1

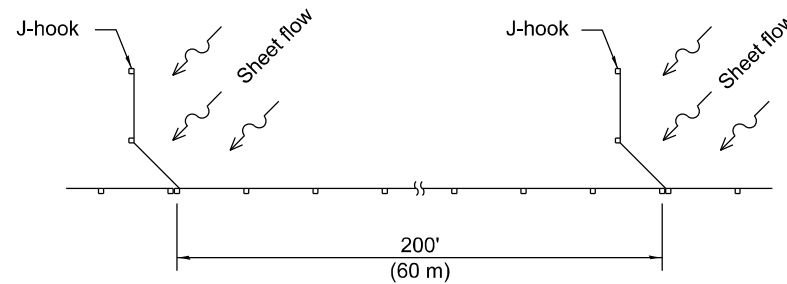


Rotate posts (stakes) together 180° clockwise and drive both posts (stakes) 18 (450) into ground.

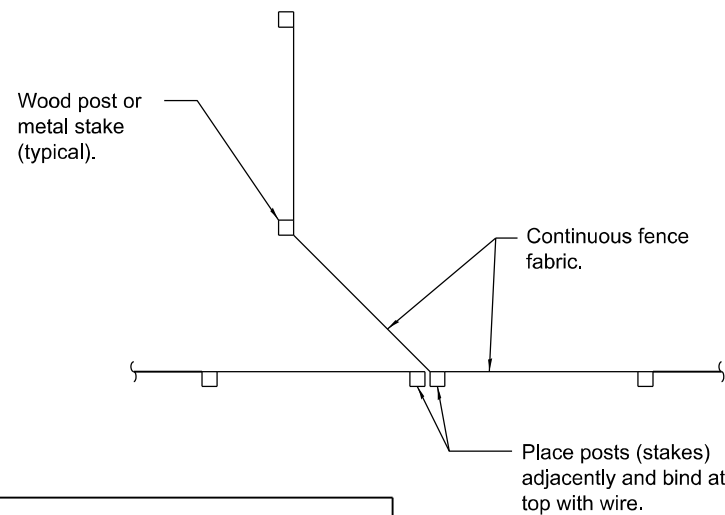
STEP 2

ATTACHING TWO SILT FILTER FENCES

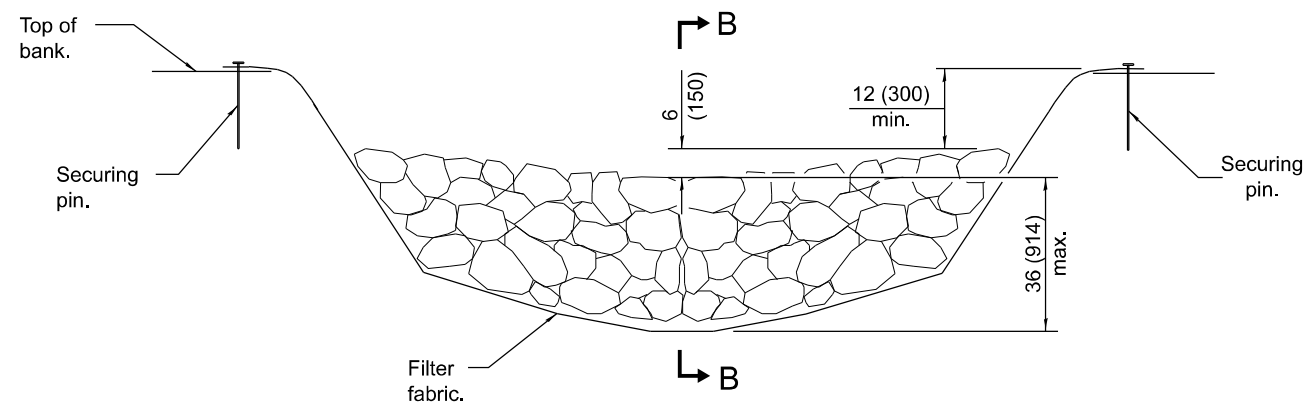
(Not applicable for J-hooks)



SILT FILTER J-HOOK PLACEMENT

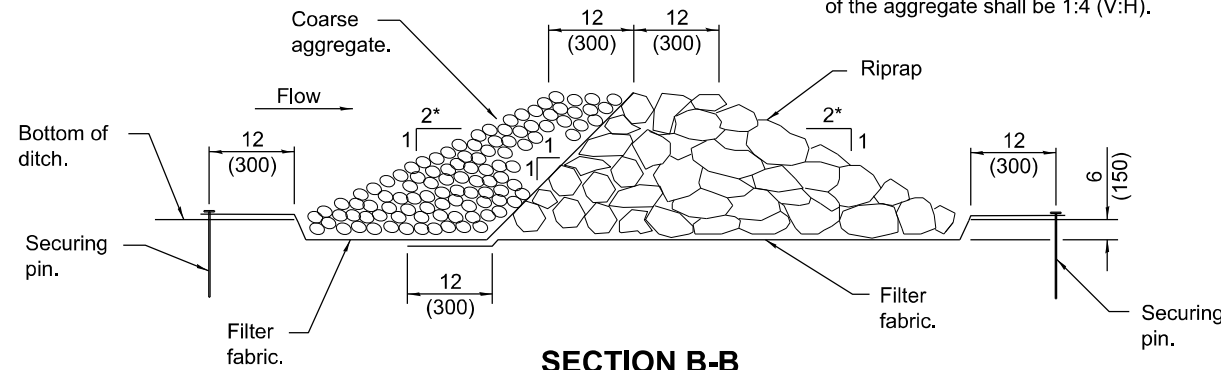


J-HOOK



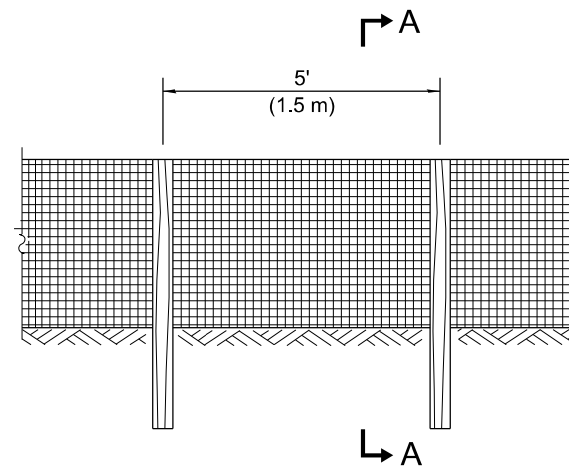
ELEVATION

* When the ditch check is within the clear zone and the road is open to traffic, the traffic approach slope of the aggregate shall be 1:4 (V:H).



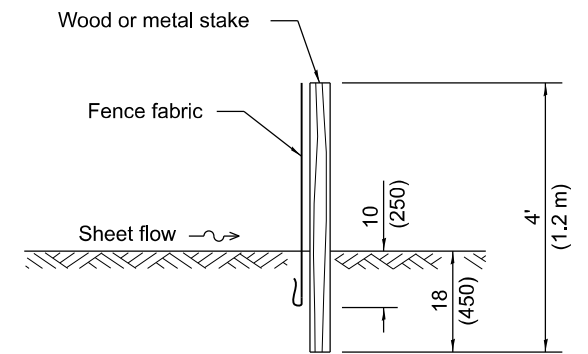
SECTION B-B

AGGREGATE DITCH CHECK

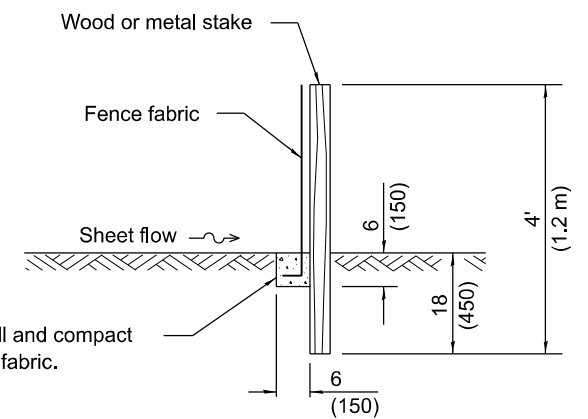


ELEVATION

SILT FILTER FENCE AS A PERIMETER EROSION BARRIER



SLICE METHOD



TRENCH METHOD

SECTION A-A

Excavate, backfill and compact trench to secure fabric.

GENERAL NOTES

The installation details and dimensions shown for perimeter erosion barriers shall also apply for inlet and pipe protection.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
 APPROVED January 1, 2013
 Michael Brand
 ENGINEER OF POLICY AND PROCEDURES
 APPROVED January 1, 2013
 ENGINEER OF DESIGN AND ENVIRONMENT

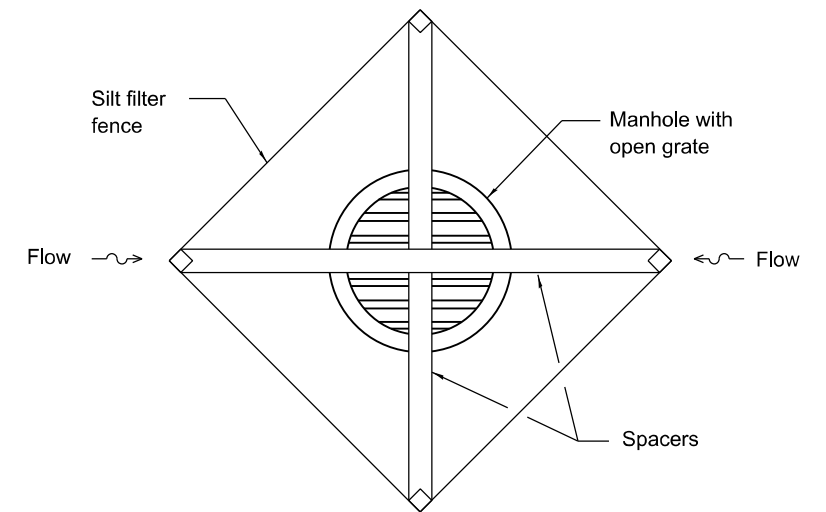
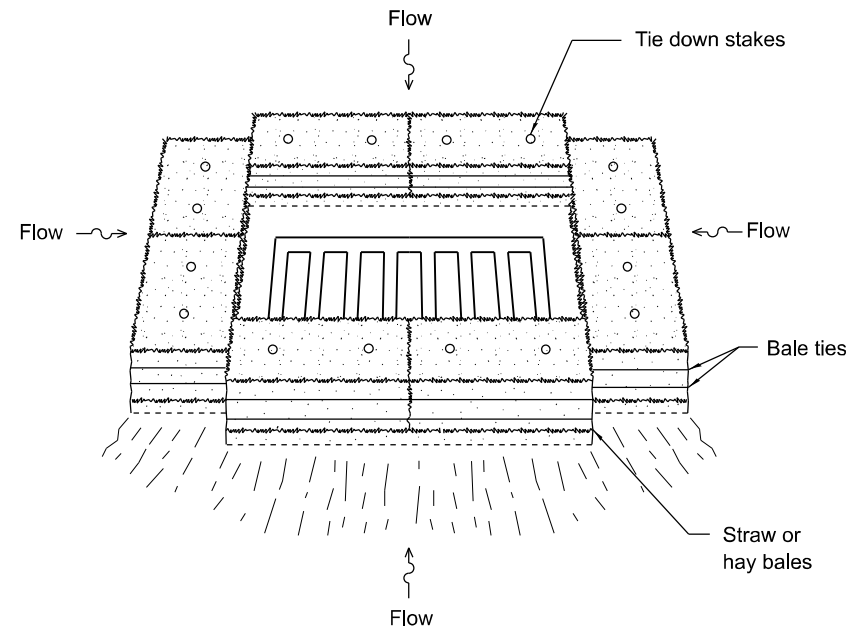
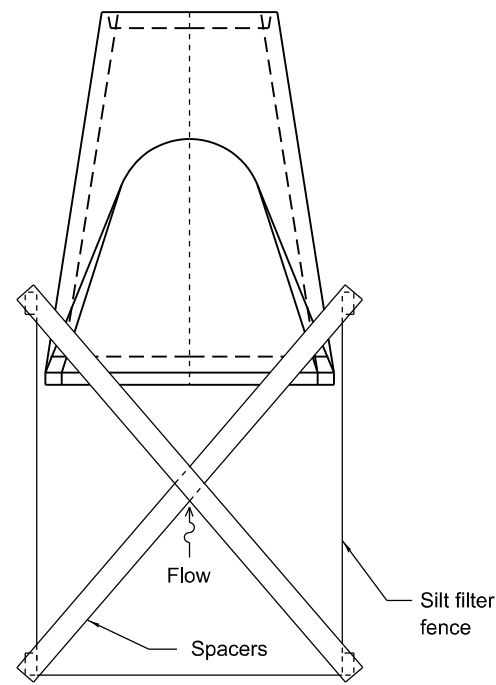
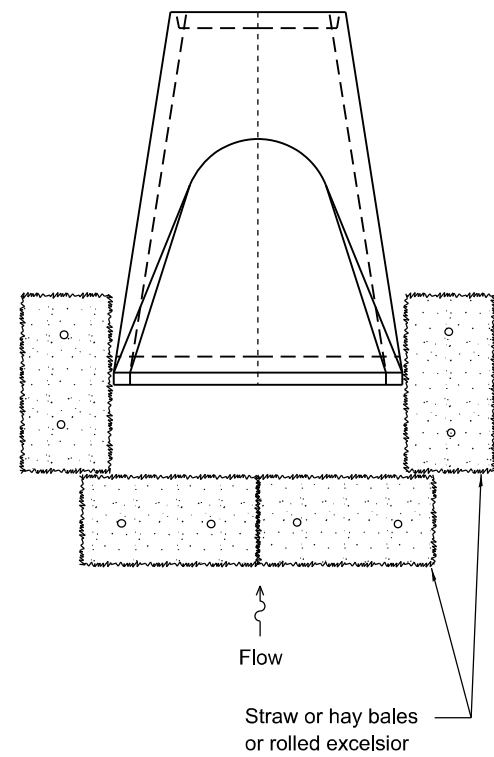
ISSUED 1-1-97

DATE	REVISIONS
1-1-13	Corrected notation for flowline (f) on SEDIMENT BASIN ELEVATION
1-1-12	Omitted hay/straw perimeter barrier. Added SLICE METHOD to SECTION A-A

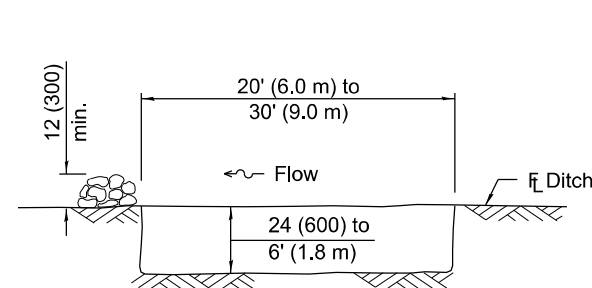
TEMPORARY EROSION CONTROL SYSTEMS

(Sheet 1 of 2)

STANDARD 280001-07

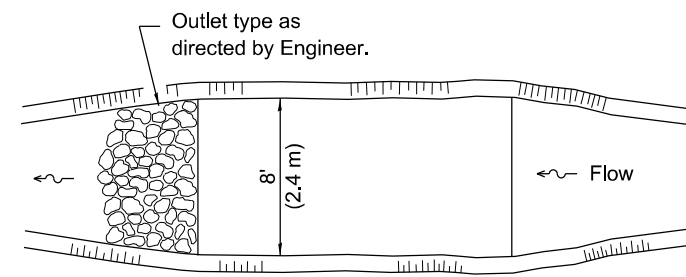


INLET AND PIPE PROTECTION



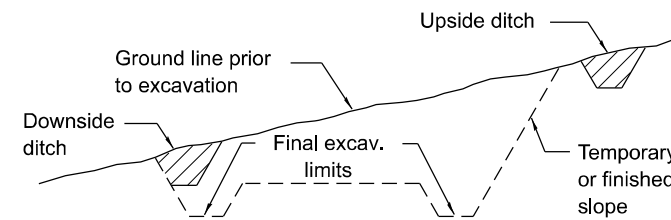
The performance of the basin will improve if put into a series.

ELEVATION

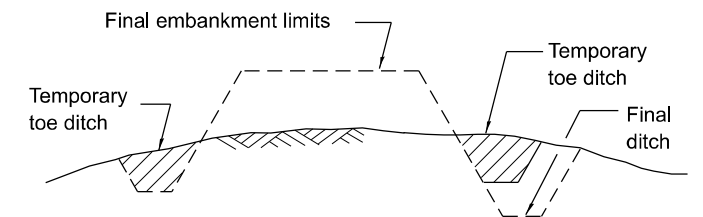


The long dimension should be parallel with the direction of the flow. Accumulated silt shall be removed anytime the basins become 75% filled.

PLAN



TYPICAL CUT CROSS-SECTION



TYPICAL FILL CROSS-SECTION

TEMPORARY DITCHES FOR CUT & FILL SECTIONS

SEDIMENT BASIN

Illinois Department of Transportation

APPROVED January 1, 2013
Michael Brand
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APPROVED January 1, 2013
[Signature]
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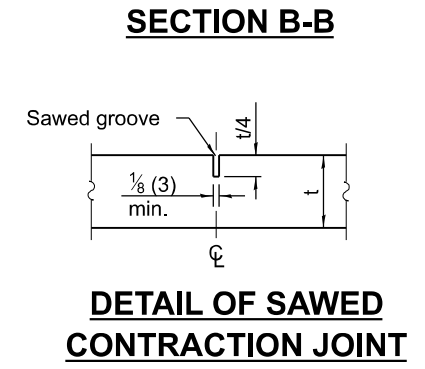
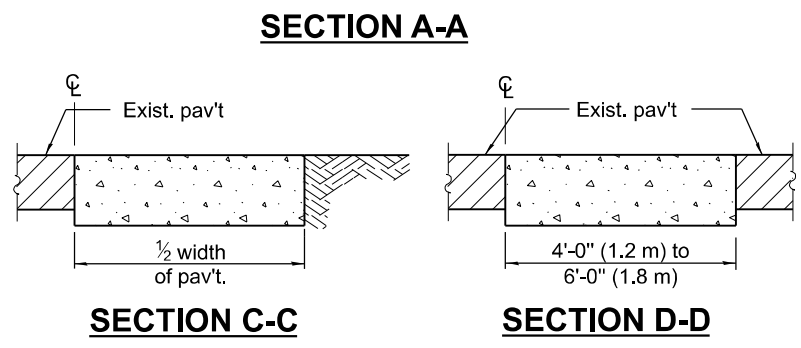
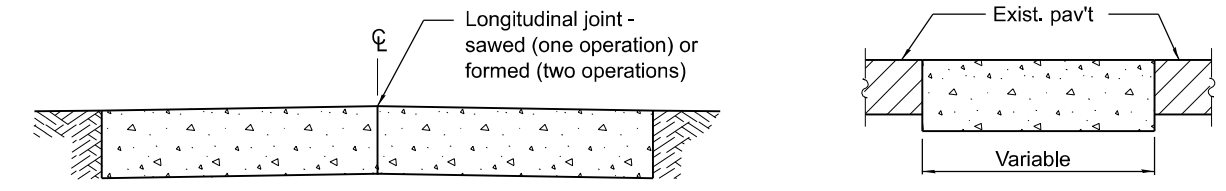
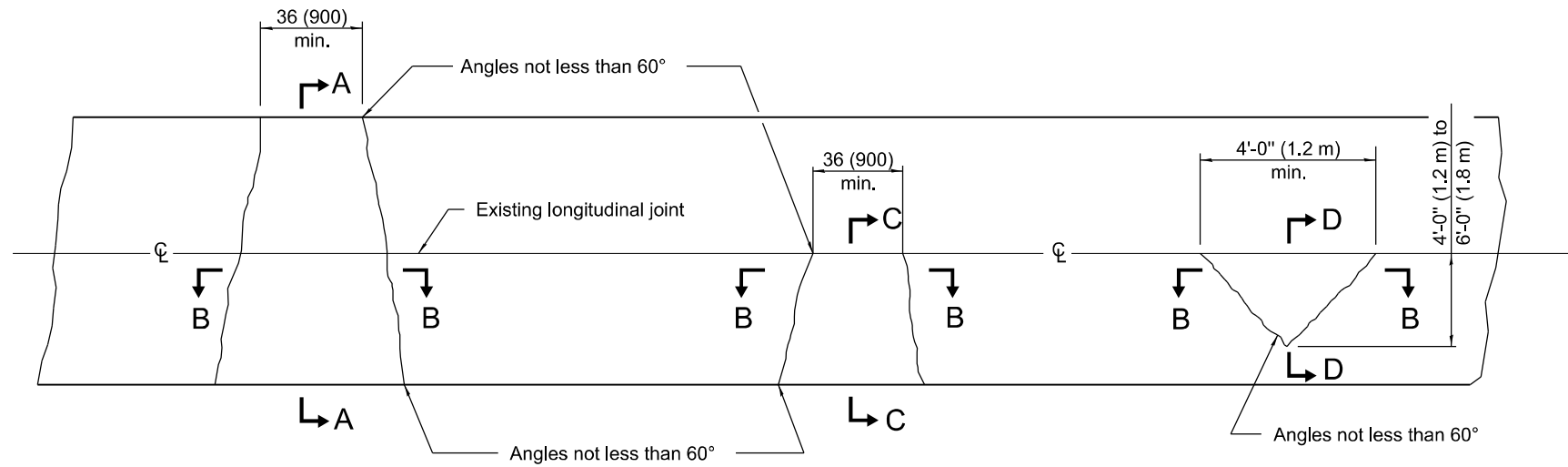
ISSUED 1-1-97

TEMPORARY EROSION CONTROL SYSTEMS

(Sheet 2 of 2)

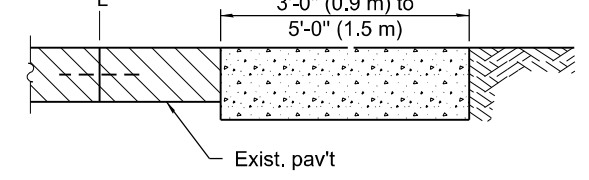
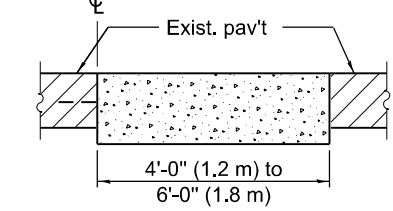
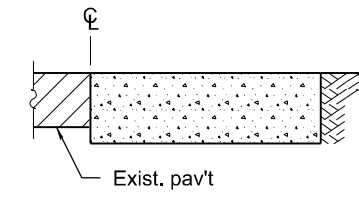
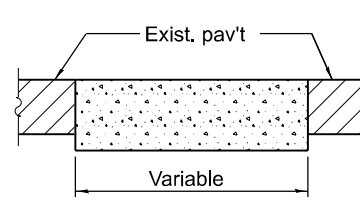
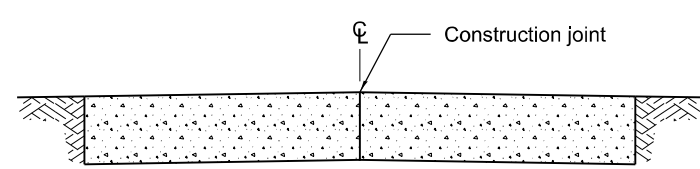
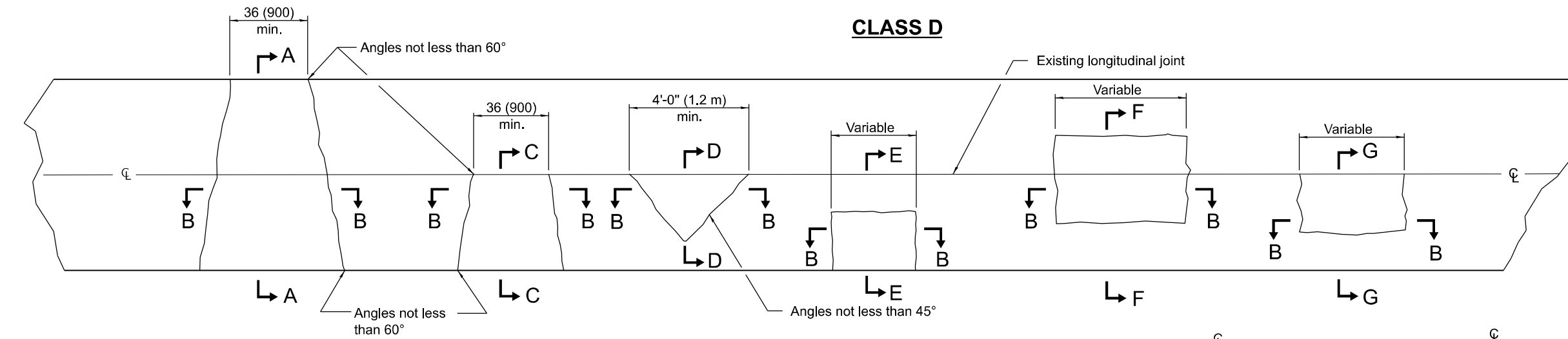
STANDARD 280001-07

CLASS C



Note:
Longitudinal joints shall be as detailed on Standard 420001, except tie bars are not required for patches 20'-0" (6.0 m) or less in length.

CLASS D



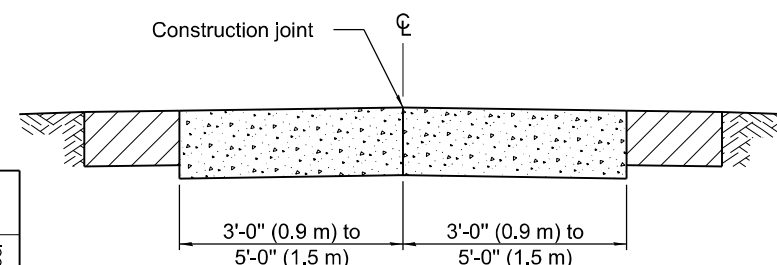
SECTION A-A
(Built in two operations)

SECTION B-B

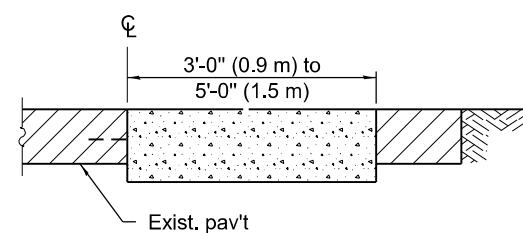
SECTION C-C

SECTION D-D

SECTION E-E



SECTION F-F
(Built in two operations)



SECTION G-G

GENERAL NOTES

Existing tie bars shall be either cut or removed. Marginal bars shall be cut.

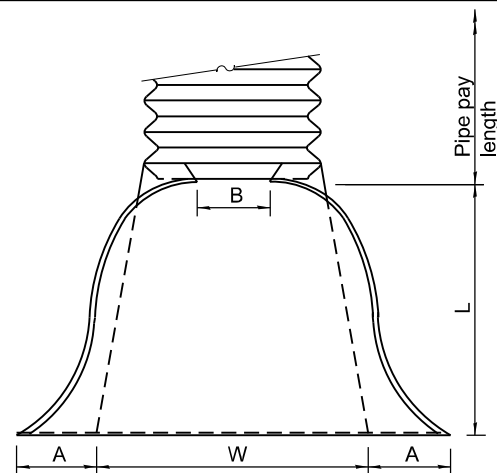
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-08	Switched units to English (metric).
1-1-07	Revised Note for Class C patches.

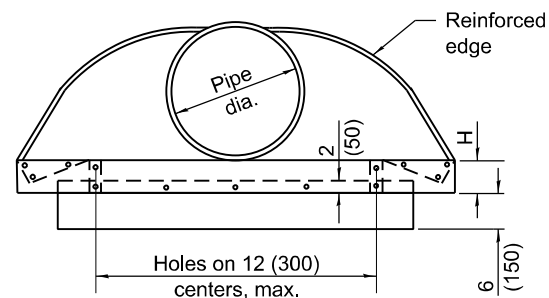
CLASS C and D PATCHES

STANDARD 442201-03

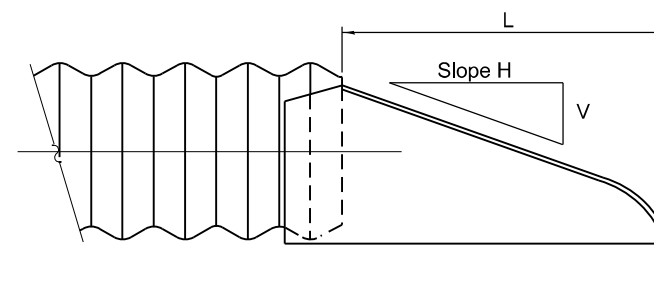
PIPE DIA.	THICKNESS	DIMENSIONS					SLOPE (Approx.) (V:H)	BODY
		A 1± (25)	B (max.)	H 1± (25)	L 1½± (38)	W 2± (50)		
12 (300)	0.064 (1.63)	6 (150)	6 (150)	6 (150)	21 (535)	24 (610)	1:2½	1 Pc.
15 (375)	0.064 (1.63)	7 (180)	8 (205)	6 (150)	26 (660)	30 (760)	1:2½	1 Pc.
18 (450)	0.064 (1.63)	8 (205)	10 (255)	6 (150)	31 (785)	36 (915)	1:2½	1 Pc.
21 (525)	0.064 (1.63)	9 (230)	12 (305)	6 (150)	36 (915)	42 (1,065 m)	1:2½	1 Pc.
24 (600)	0.064 (1.63)	10 (255)	13 (330)	6 (150)	41 (1,040 m)	48 (1,220 m)	1:2½	1 Pc.
30 (750)	0.079 (2.01)	12 (305)	16 (405)	8 (205)	51 (1,295 m)	60 (1,525 m)	1:2½	1 Pc.
36 (900)	0.079 (2.01)	14 (355)	19 (480)	9 (230)	60 (1,525 m)	72 (1,830 m)	1:2½	2 Pc.
42 (1050)	0.109 (2.77)	16 (405)	22 (560)	11 (280)	69 (1,750 m)	84 (2,135 m)	1:2½	2 Pc.
48 (1200)	0.109 (2.77)	18 (455)	27 (685)	12 (305)	78 (1,980 m)	90 (2,285 m)	1:2¼	2 Pc.
54 (1350)	0.109 (2.77)	18 (455)	30 (760)	12 (305)	84 (2,135 m)	102 (2,590 m)	1:2	2 Pc.
60 (1500)	0.109 (2.77)	18 (455)	33 (840)	12 (305)	87 (2,210 m)	114 (2,895 m)	1:1¾	3 Pc.
66 (1650)	0.109 (2.77)	18 (455)	36 (915)	12 (305)	87 (2,210 m)	120 (3,050 m)	1:1½	3 Pc.
72 (1800)	0.109 (2.77)	18 (455)	39 (990)	12 (305)	87 (2,210 m)	126 (3,200 m)	1:1½	3 Pc.
78 (1950)	0.109 (2.77)	18 (455)	42 (1,065 m)	12 (305)	87 (2,210 m)	132 (3,355 m)	1:1¼	3 Pc.
84 (2250)	0.109 (2.77)	18 (455)	45 (1,145 m)	12 (305)	87 (2,210 m)	138 (3,505 m)	1:1¼	3 Pc.



PLAN



END VIEW



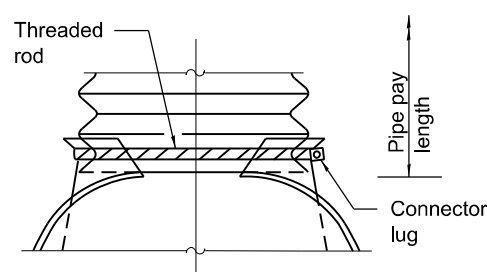
SIDE VIEW

END SECTION

NOTES

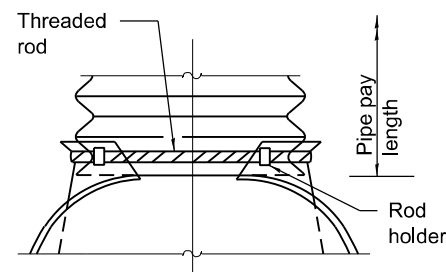
For 60 (1500) thru 84 (2250) sizes, reinforced edges shall be supplemented with stiffener angles. The angles shall be 2 x 2 x ¼ (51 x 51 x 6.4) for 60 (1500) thru 72 (1800) diameter and 2½ x 2½ x ¼ (64 x 64 x 6.4) for 78 (1950) thru 84 (2250) diameter. The angles shall be attached by ⅜ (M10) rivets or bolts.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).



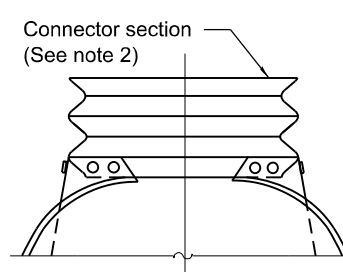
TYPE 1

For 12 (300) thru 24 (600) only
(See Note 1)



TYPE 2

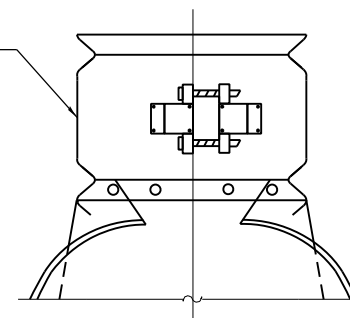
For 30 (750) and 36 (900) only
(See Note 1)



TYPE 3

(See Note 2)

Band shop bolted to end section with ⅜ (M10) bolts.



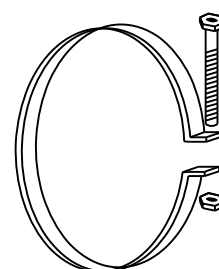
TYPE 4

(See Note 3)

NOTES

- Types 1 and 2 for pipes with annular ends only.
- Type 3 connection may be used for all pipe sizes and includes 12 (300) of the pipe length. The connector section shall be attached to the end section by rivets or bolts and shall be the same metal thickness as the end section. Stub shall be either 2⅔ (68) pitch x ½ (13) depth or 3 (75) pitch x 1 (25) depth annular corrugated pipe.
- Type 4 connection can be used for all pipe sizes. Coupler shall be 2⅔ x ½ (68 x 13) dimple, hugger, or annular band of 3 x 1 (75 x 25). The dimple, hugger, or annular band may be used with corrugated metal pipes having annular ends. For corrugated metal pipes having helical ends, only the dimple band will be allowed.

All dimensions are in inches (millimeters) unless otherwise shown.



ALTERNATE STRAP CONNECTOR

(For Type 1 only)

1 (25) wide, 0.109 (2.77) thick strap with standard ½ x 6 (M12x150) band bolt and nut.

CONNECTIONS OF END SECTIONS

DATE	REVISIONS
1-1-21	Revised THICKNESS values in table.
1-1-18	Renamed standard.

METAL FLARED END SECTION FOR PIPE CULVERTS

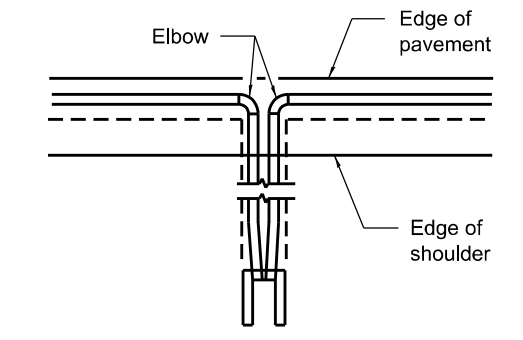
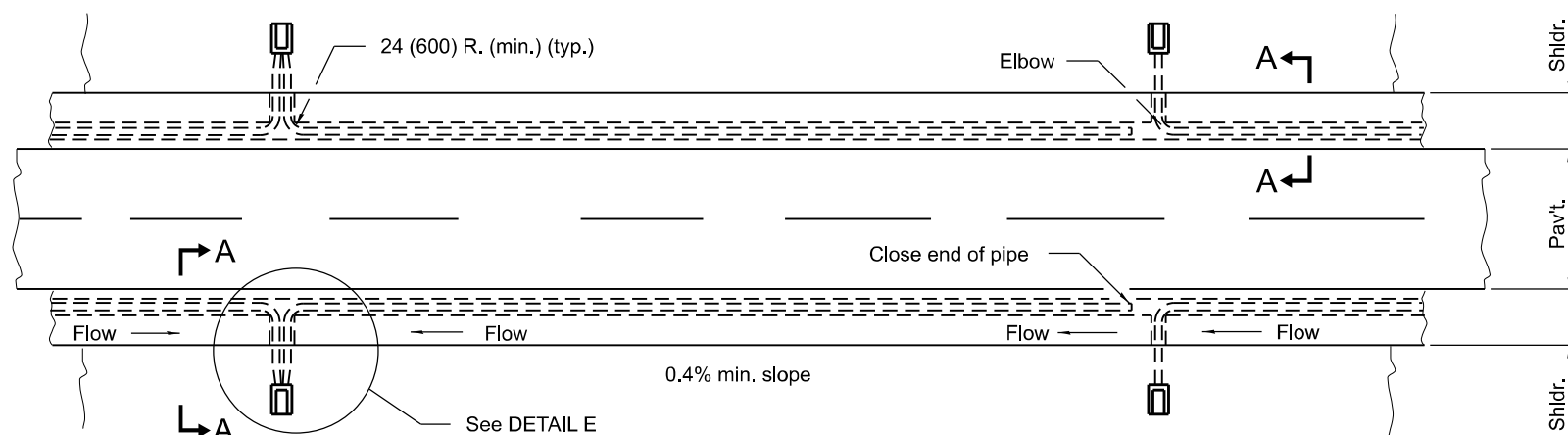
STANDARD 542401-04

Illinois Department of Transportation

APPROVED January 1, 2021
Michael Bond
ENGINEER OF POLICY AND PROCEDURES

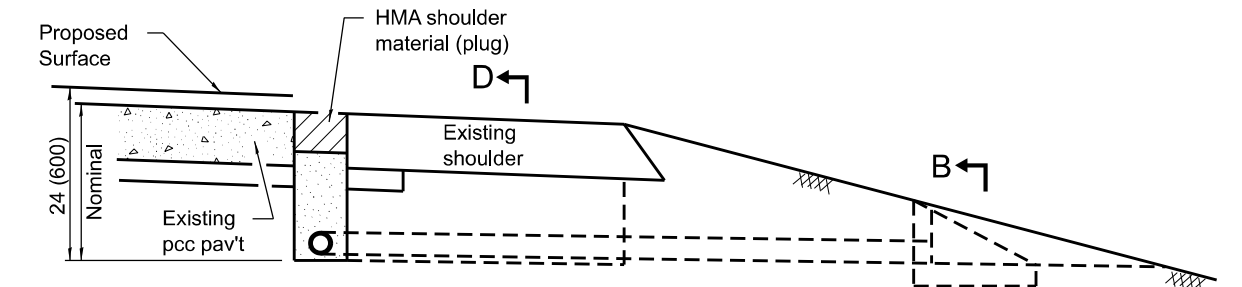
APPROVED January 1, 2021
Scott E. G...
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

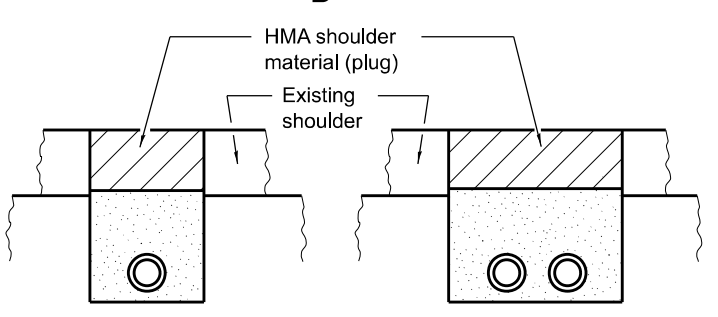
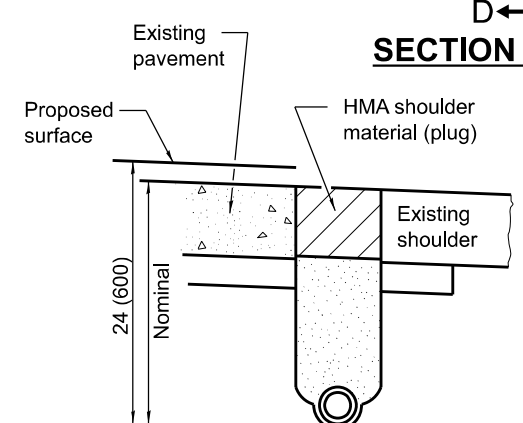


DETAIL E

PLAN



SECTION A-A



SECTION D-D
SECTION D-D
(Sag Locations)

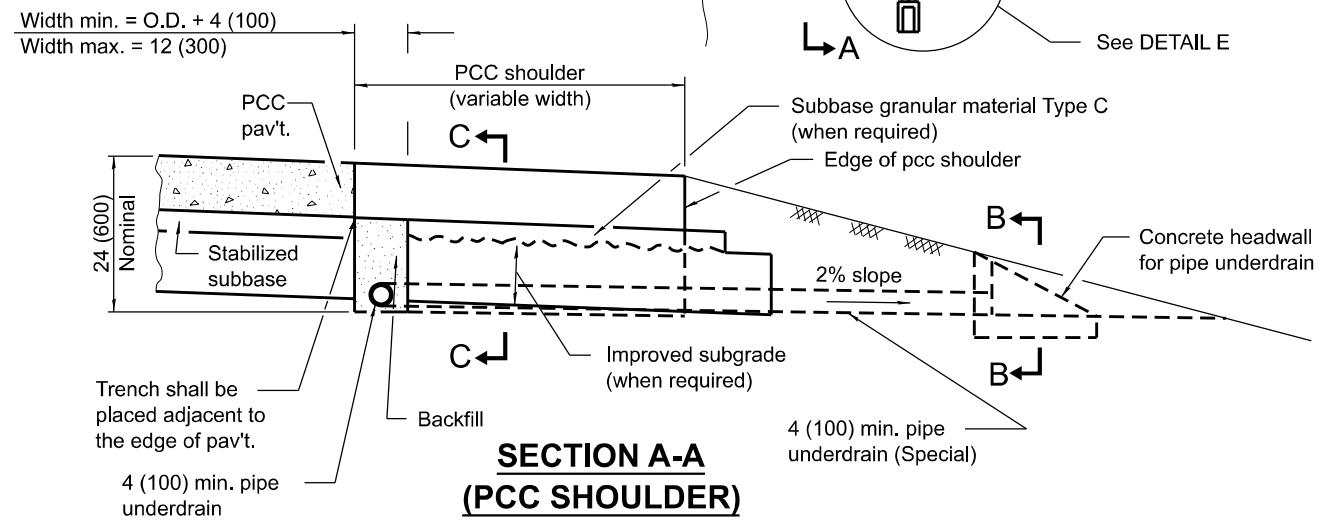
TRENCH FOR CORRUGATED POLYETHYLENE TUBING ALTERNATE

EXISTING CONSTRUCTION

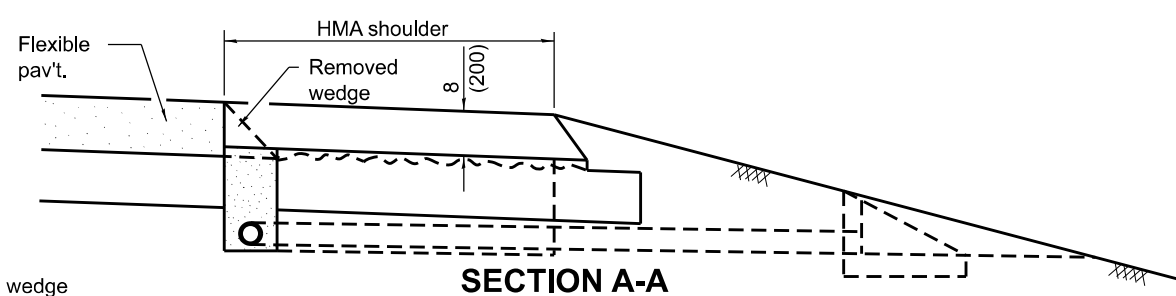
(Except as noted or shown, dimensions and notes specified for Existing Construction are the same as those of New Construction)

GENERAL NOTES

- See Standard 601101 for details of concrete headwall.
- See Standards 482001, 482006 and 483001 for details of shoulders not shown.
- The 24 (600) radius on the drainage fitting is only a minimum. Larger radii meeting the approval of the Engineer may be substituted.
- All dimensions are in inches (millimeters) unless otherwise shown.

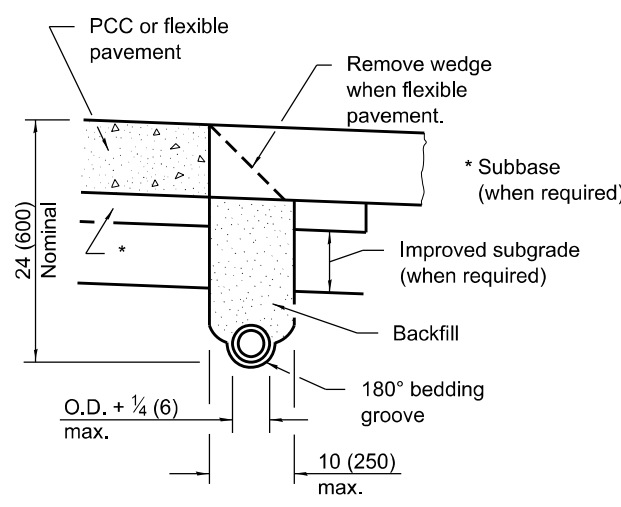


SECTION A-A
(PCC SHOULDER)

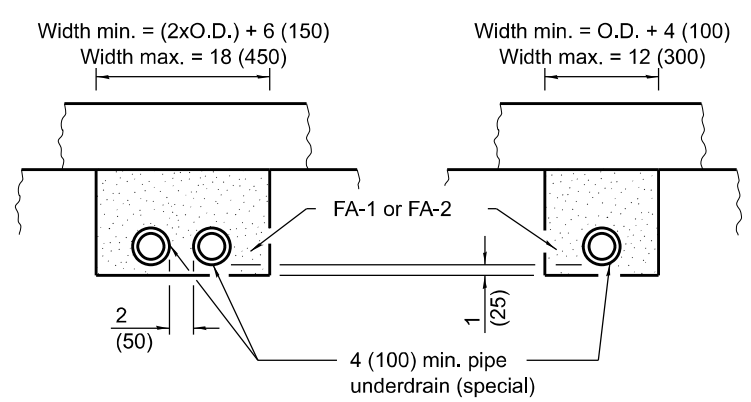


SECTION A-A
(HMA SHOULDER)

(Dimensions and notes not shown shall be as shown in the above Section A-A)

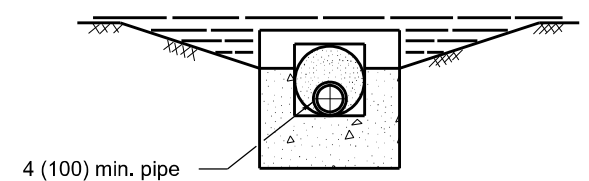


TRENCH FOR CORRUGATED POLYETHYLENE TUBING ALTERNATE

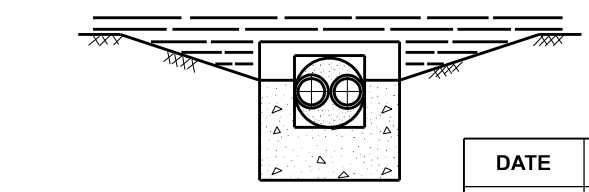


SECTION C-C
(Sag locations)

NEW CONSTRUCTION



SECTION B-B



SECTION B-B
(Sag locations)

DATE	REVISIONS
4-1-16	Renamed standard. Omitted drainage mat option.
1-1-11	Added 'PCC' and 'HMA' to SECTION A-A titles on Sheet 2.

PIPE UNDERDRAINS

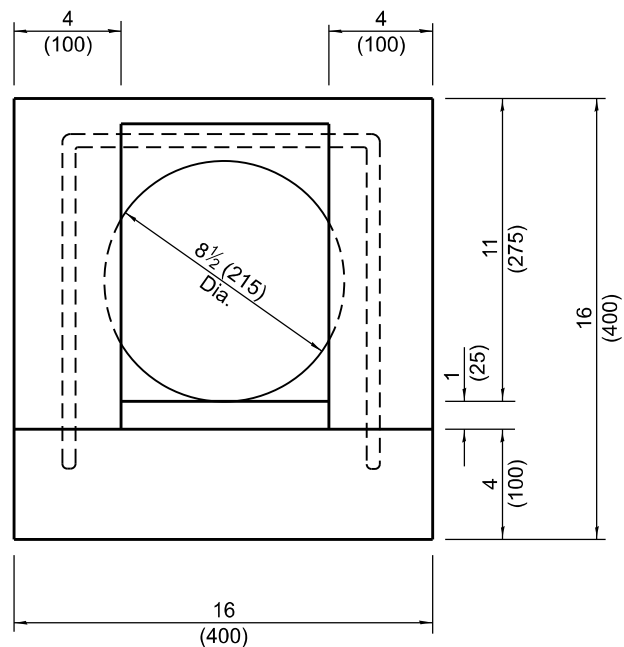
STANDARD 601001-05

Illinois Department of Transportation

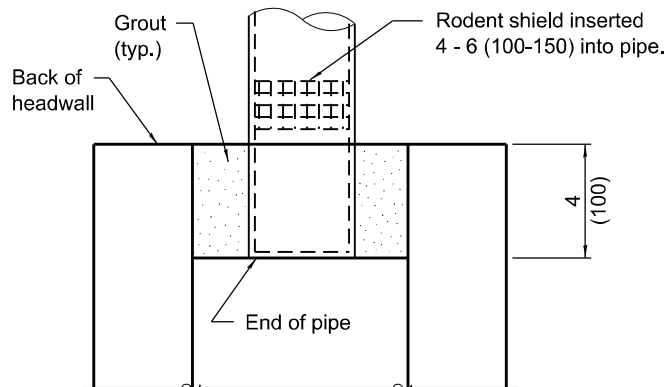
APPROVED April 1, 2016
Michael Brand
ENGINEER OF POLICY AND PROCEDURES

APPROVED April 1, 2016
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

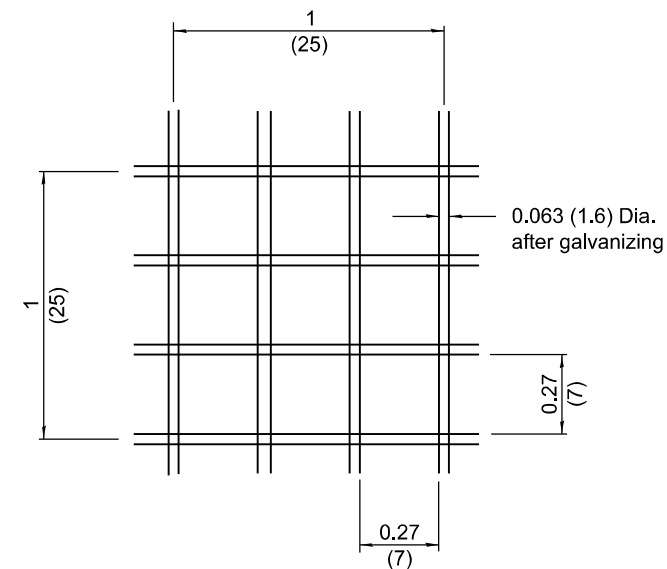
ISSUED 1-1-97



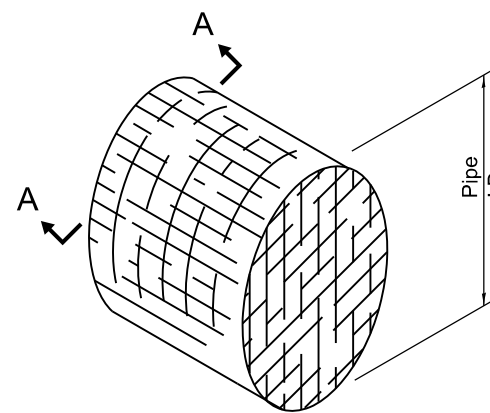
FRONT VIEW



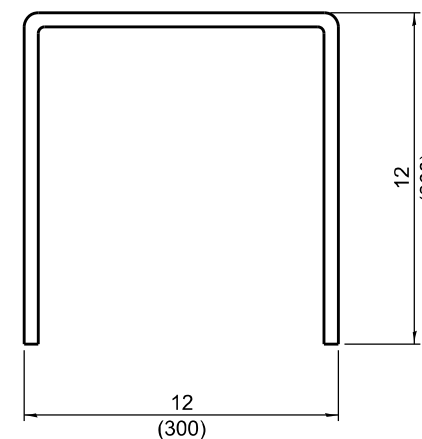
RODENT SHIELD PLACEMENT



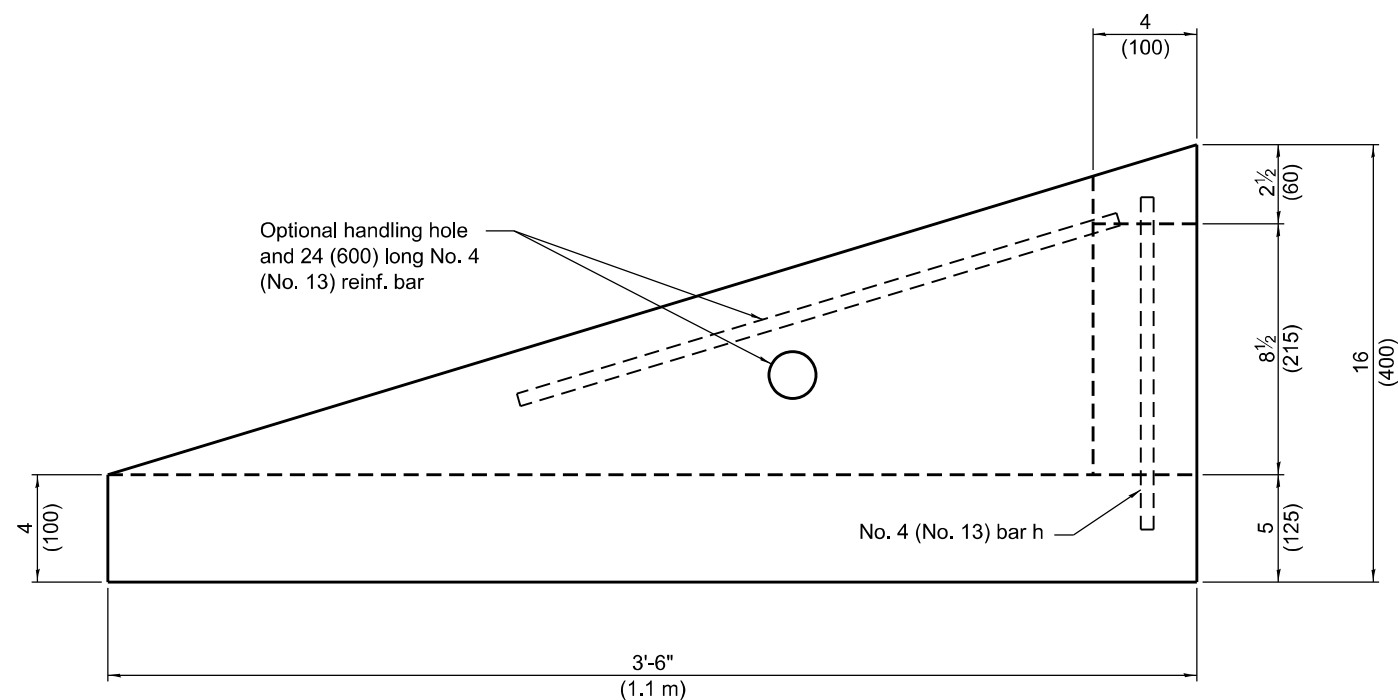
SECTION A-A



DETAIL OF RODENT SHIELD



BAR h



SIDE VIEW

GENERAL NOTES

An alternate paved invert meeting the approval of the Engineer may be substituted for that shown in side view.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
4-1-16	Renamed standard to be consistent with specs and other standards.
1-1-09	Switched units to English (metric).

CONCRETE HEADWALL FOR PIPE UNDERDRAINS

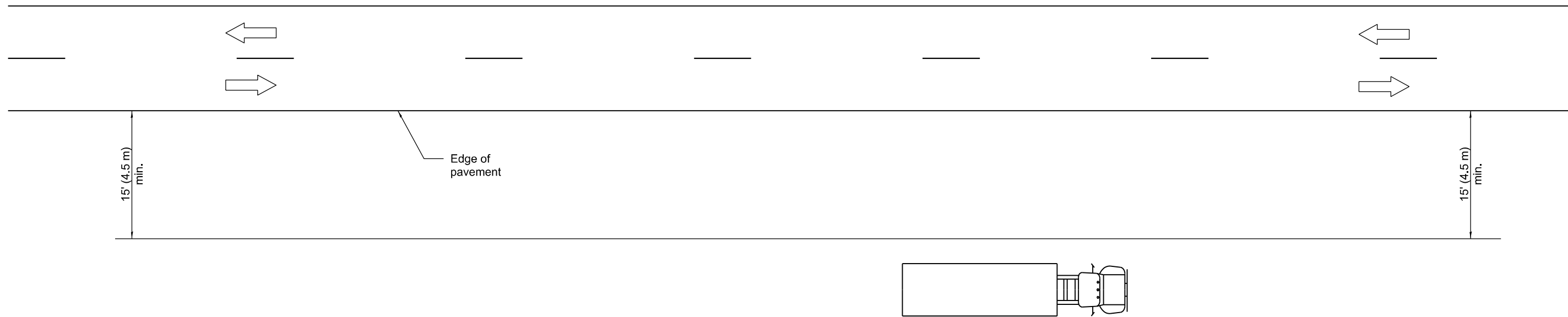
STANDARD 601101-02

Illinois Department of Transportation

APPROVED Michael Brand April 1, 2016
ENGINEER OF POLICY AND PROCEDURES

APPROVED [Signature] April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



TYPICAL APPLICATIONS

- Landscaping work
- Utility work
- Fencing contracts and maintenance
- Cleaning culverts

GENERAL NOTES

This Standard is used where at all times all vehicles, equipment, workers or their activities are more than 15' (4.5 m) from the edge of pavement.

When the work operation requires that two or more work vehicles cross the 15' (4.5 m) clear zone in any one hour, traffic control shall be according to Standard 701006.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2009
 ENGINEER OF OPERATIONS

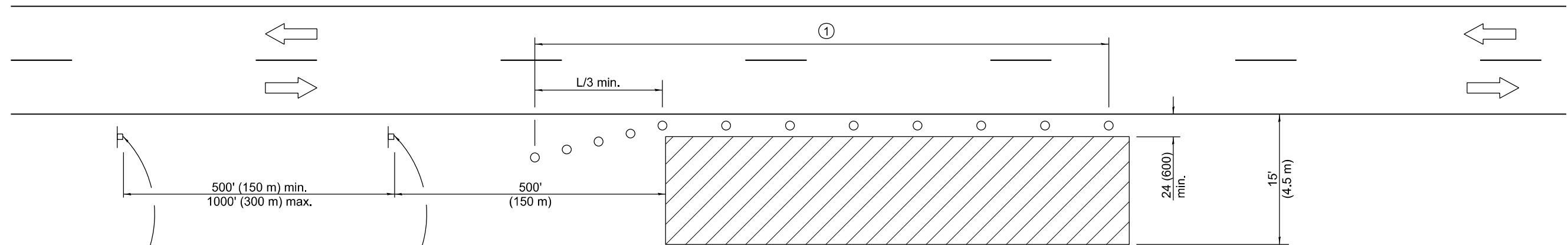
APPROVED January 1, 2009
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-05	Revised title and notes.

**OFF-RD OPERATIONS,
 2L, 2W, MORE THAN
 15' (4.5 m) AWAY**

STANDARD 701001-02



For contract construction projects



W20-1103(0)-48



W21-1(0)-48

For maintenance and utility projects



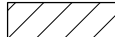


W20-1(0)-48

TYPICAL APPLICATIONS

Utility operations
 Culvert extensions
 Side slope changes
 Guardrail installation and maintenance
 Delineator installation
 Landscaping operations
 Shoulder repair
 Sign installation and maintenance

① When the work operation exceeds one hour, cones, drums or barricades shall be placed at 25' (8 m) centers for L/3 distance, and at 50' (15 m) centers through the remainder of the work area.

SYMBOLS

-  Work area
-  Sign
-  Cone, drum or barricade

GENERAL NOTES

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24' (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT	FORMULAS	
	English	(Metric)
40 mph (70 km/h) or less:	$L = \frac{WS^2}{60}$	$L = \frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L = (W)(S)$	$L = 0.65(W)(S)$

W = Width of offset in feet (meters).

S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-14	Revised workers sign number to agree with current MUTCD.
1-1-13	Omitted text 'WORKERS' sign.

OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

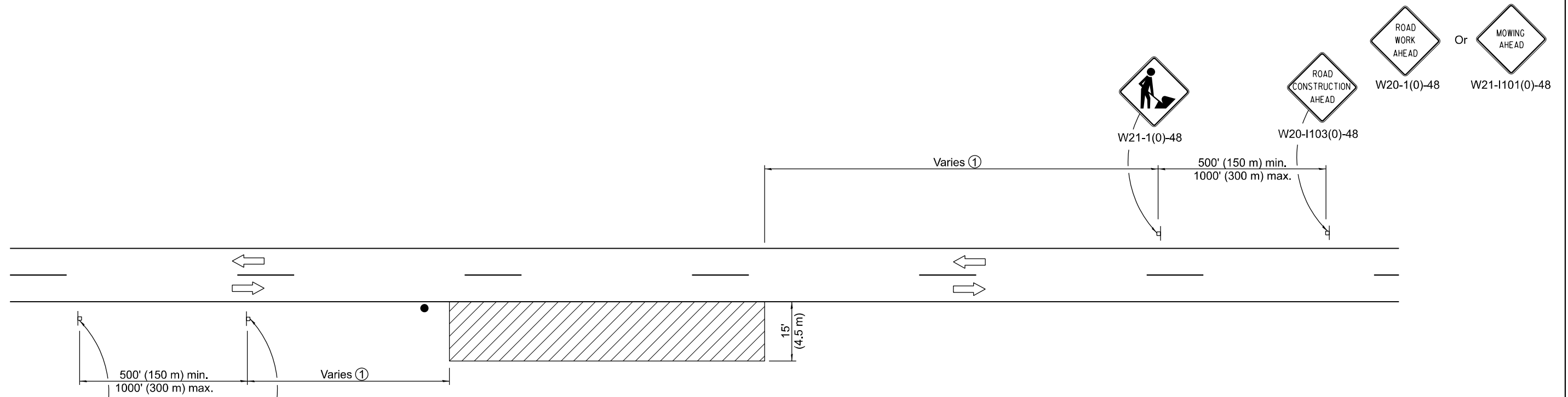
STANDARD 701006-05

Illinois Department of Transportation

APPROVED January 1, 2014
James A. DeSantis
 ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2014
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



TYPICAL APPLICATIONS

Shoulder work
Utility operations

For contract construction projects



W20-1103(0)-48



W21-1(0)-48

For maintenance and utility projects

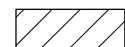


W20-1(0)-48



W21-1101(0)-48

SYMBOLS



Work area



Sign



Flagger with traffic control sign when required

① Minimum distance is 200' (60 m). Maximum distance to be determined by the Engineer but should not exceed 1/2 the length required for one normal working day's operation, or 4 miles (6.4 km) whichever is less.

GENERAL NOTES

This Standard is used where at any time, any vehicle, equipment, workers or their activities require an intermittent or continuous moving operation on the shoulder, where the average speed is 1 mph (2 km/h) or less.

When the work operation does not exceed 60 minutes, traffic control may be according to Standard 701301.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-14	Revised workers sign number to agree with current MUTCD.
1-1-13	Omitted text 'WORKERS' sign.

**OFF-RD MOVING OPERATIONS
2L, 2W, DAY ONLY**

STANDARD 701011-04

Illinois Department of Transportation

APPROVED January 1, 2014

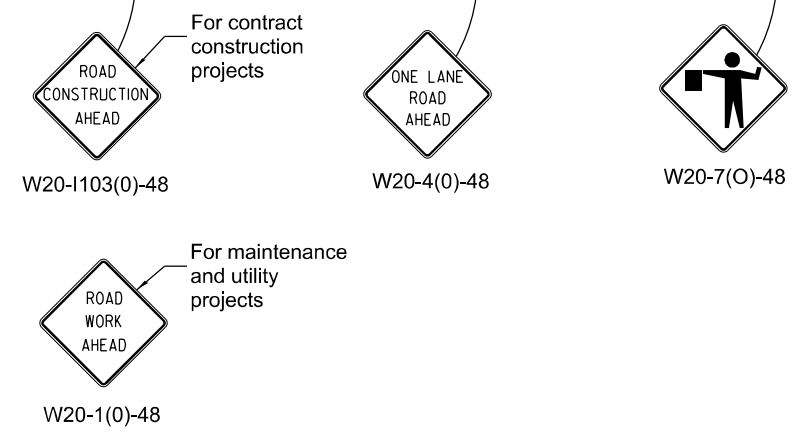
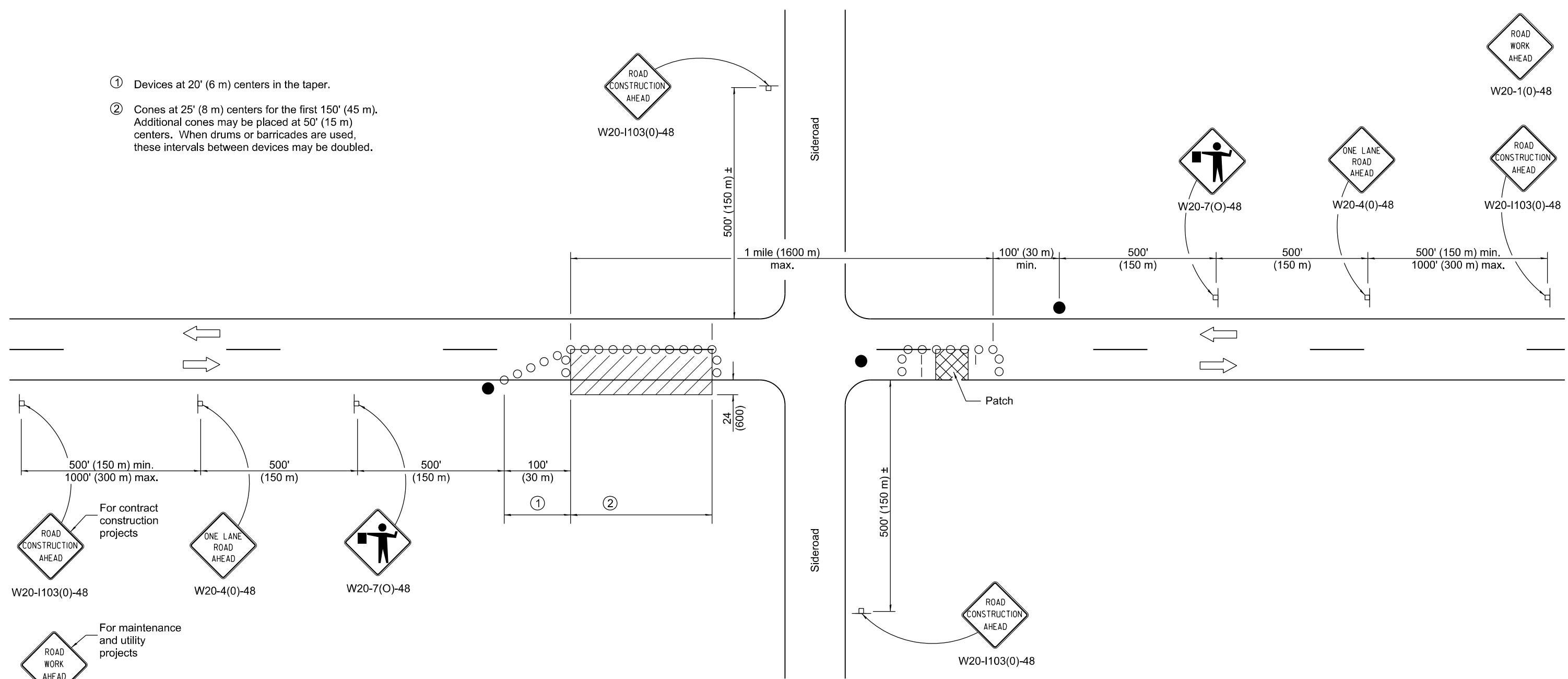
James A. Stas
ENGINEER OF SAFETY ENGINEERING

APPROVED January 1, 2014

OR
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

- ① Devices at 20' (6 m) centers in the taper.
- ② Cones at 25' (8 m) centers for the first 150' (45 m). Additional cones may be placed at 50' (15 m) centers. When drums or barricades are used, these intervals between devices may be doubled.



TYPICAL APPLICATIONS

- Isolated patching
- Utility operations
- Storm sewer
- Culverts
- Cable placement

SYMBOLS

- Work area
- Sign
- Barricade or drum
- Cone, drum or barricade
- Flagger with traffic control sign

GENERAL NOTES

This Standard is used where at any time, any vehicles, equipment, workers or their activities will encroach in the area between the center line and a line 24 (600) outside the edge of pavement for daylight operation.

When the distance between successive work areas exceeds 2000' (600 m), additional warning signs, flaggers, and taper shall be placed as shown.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2019
Cynthia Watt
 ENGINEER OF SAFETY PROG. AND ENGINEERING

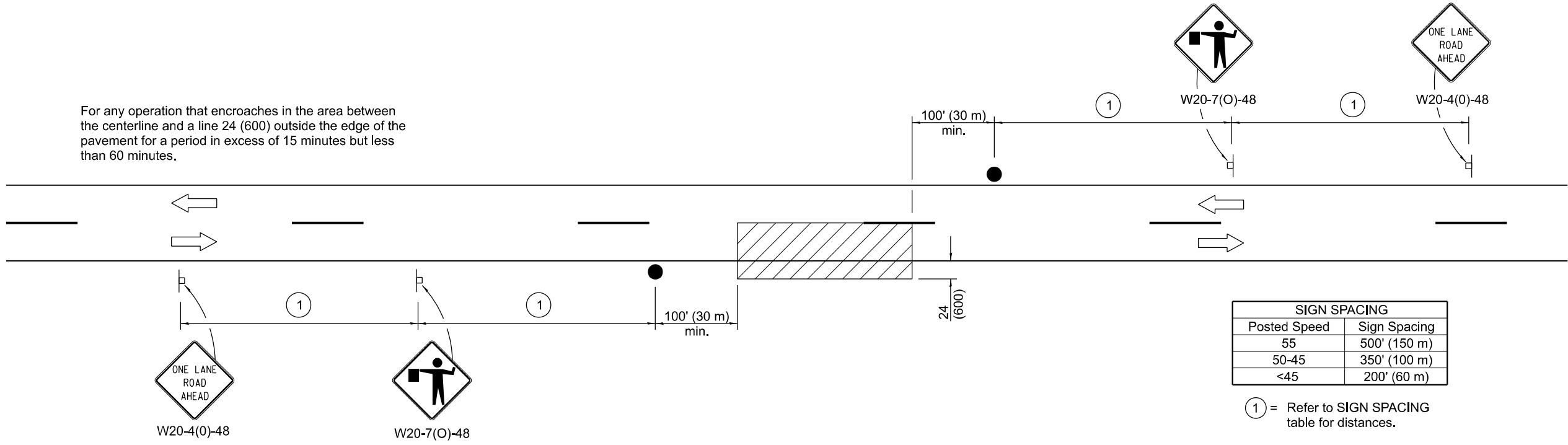
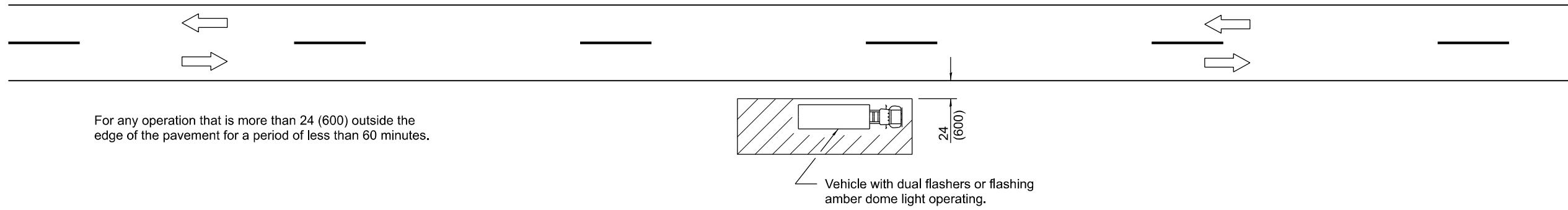
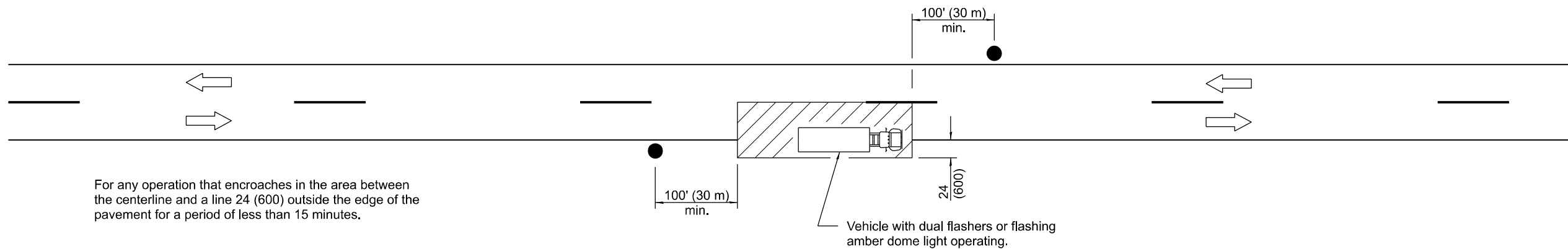
APPROVED January 1, 2019
Scott Egan
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-19	Revised device spacing in taper.
1-1-11	Revised flagger sign.

**LANE CLOSURE, 2L 2W,
 DAY ONLY,
 FOR SPEEDS ≥ 45 MPH**

STANDARD 701201-05



TYPICAL APPLICATIONS

- Marking patches
- Field survey
- String line
- Utility operations
- Cleaning up debris on pavement

SYMBOLS

- Work area
- Sign on portable or permanent support
- Flagger with traffic control sign

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

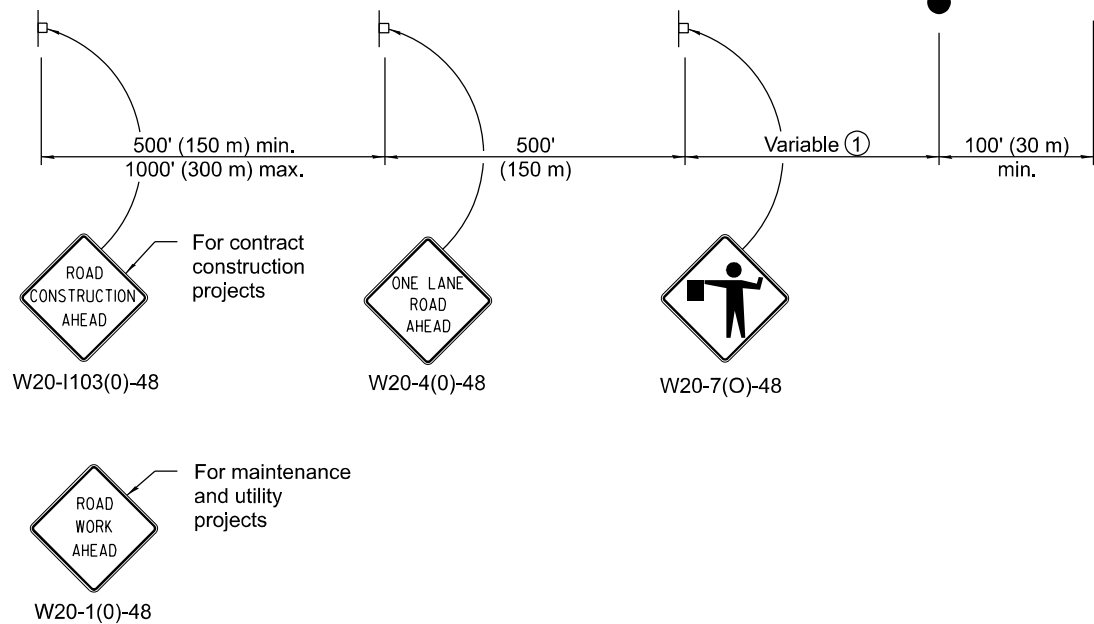
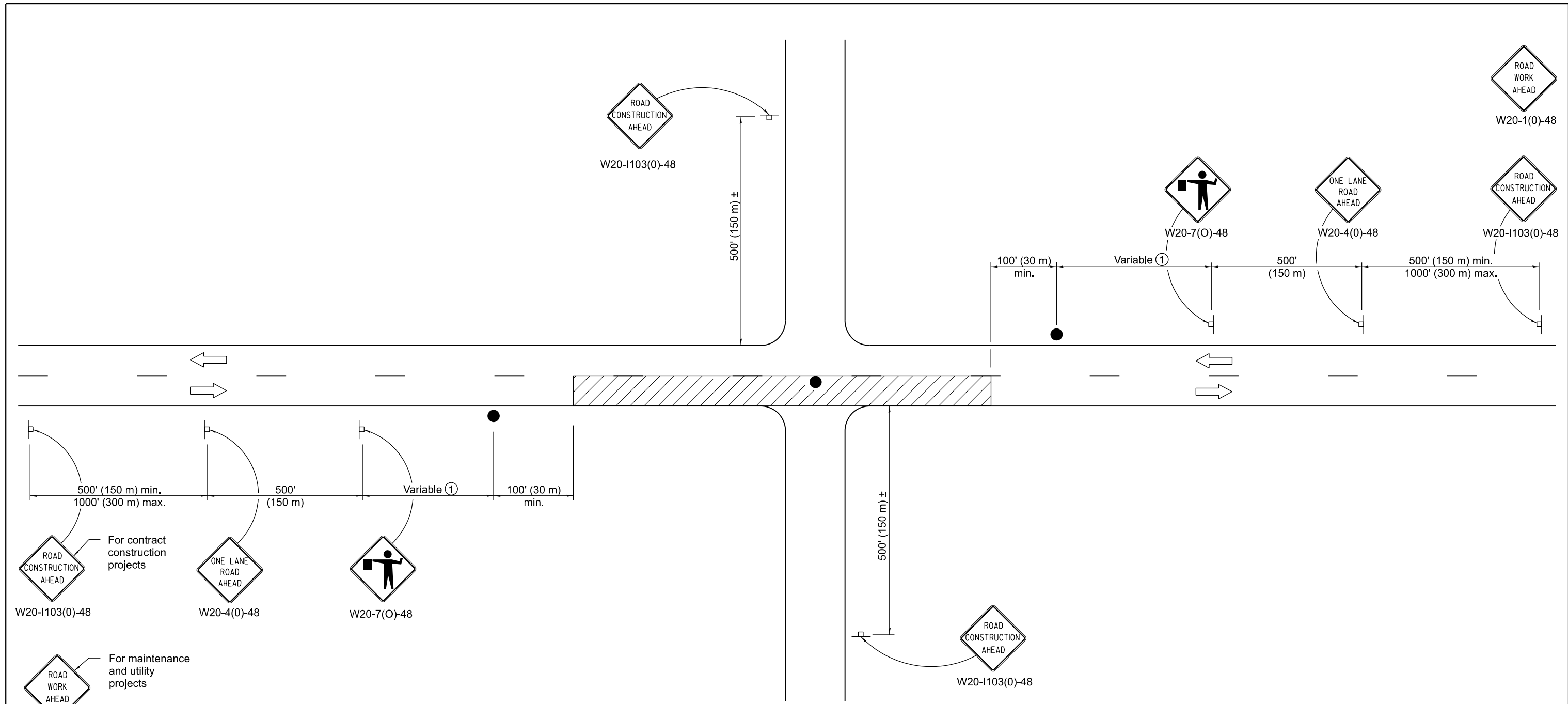
STANDARD 701301-04

Illinois Department of Transportation

APPROVED January 1, 2011
Amelia A. Davis
 ENGINEER OF SAFETY ENGINEERING

ISSUED 1-1-97

APPROVED January 1, 2011
Scott Schick
 ENGINEER OF DESIGN AND ENVIRONMENT



TYPICAL APPLICATIONS

- Bituminous resurfacing
- Milling operations
- Utility operations
- Shoulder operations

SYMBOLS

- Work area
- Sign on portable or permanent support
- Flagger with traffic control sign

① Minimum distance is 200' (60 m). Maximum distance to be determined by the Engineer but should not exceed 1/2 the length required for one normal working day's operation or 2 miles (3200 m), whichever is less.

GENERAL NOTES

This Standard is used where at any time, any vehicle, equipment, workers or their activities require an intermittent or continuous moving operation on the pavement where the average speed of movement is greater than 1/2 mph (1 km/h) and less than 4 mph (6 km/h).

When the operation does not exceed 60 minutes, traffic control may be according to Standard 701301.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2018
Paul Lark
 ENGINEER OF SAFETY PROG. AND ENGINEERING

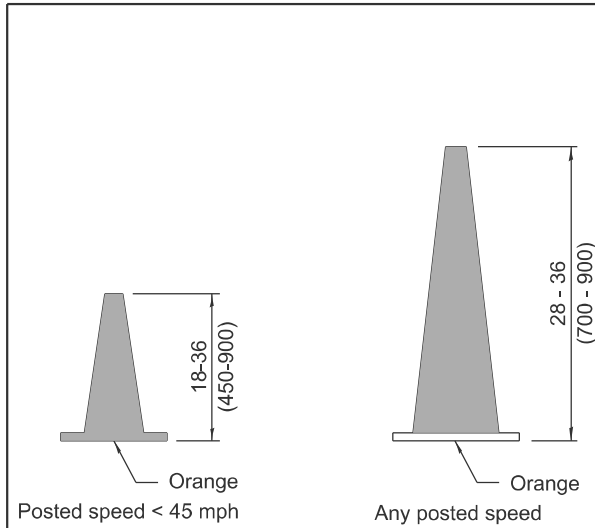
APPROVED January 1, 2018
Walter M. DeLo
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

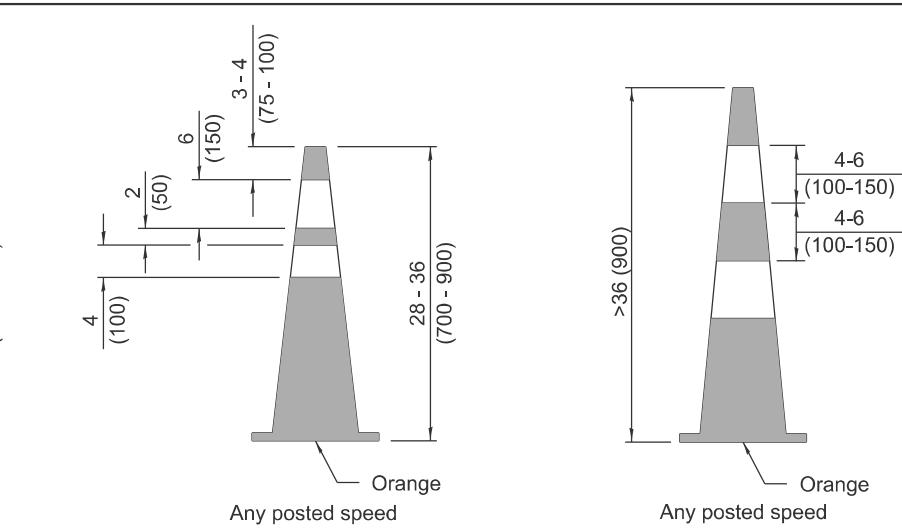
DATE	REVISIONS
1-1-18	Revised lower speed limit for operation to 1/2 mph.
1-1-11	Revised flagger sign.

LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH

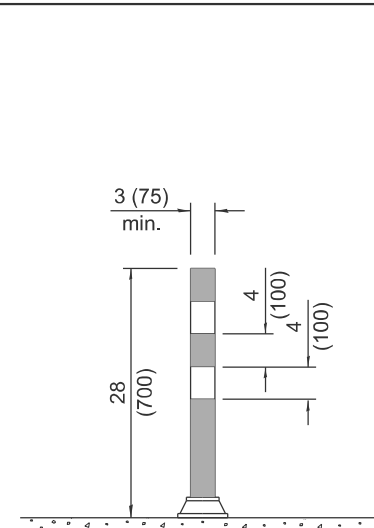
STANDARD 701306-04



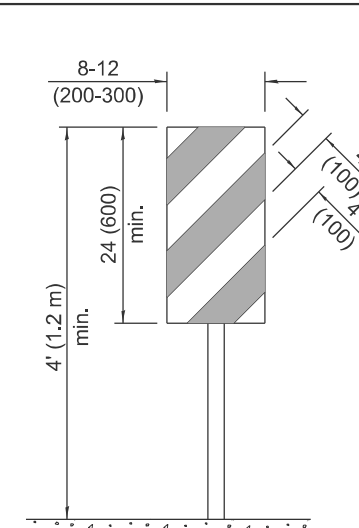
DAYTIME USE



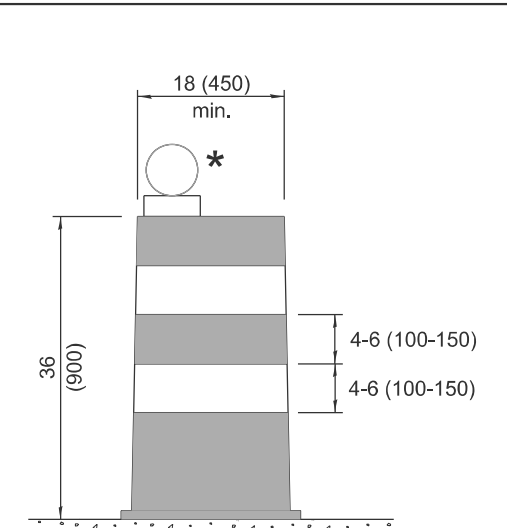
DAY OR NIGHTTIME USE



TUBULAR MARKER

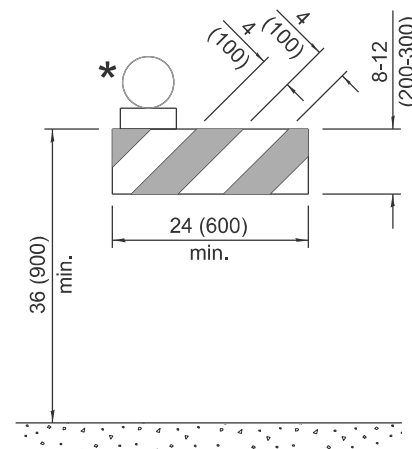


**VERTICAL PANEL
POST MOUNTED**

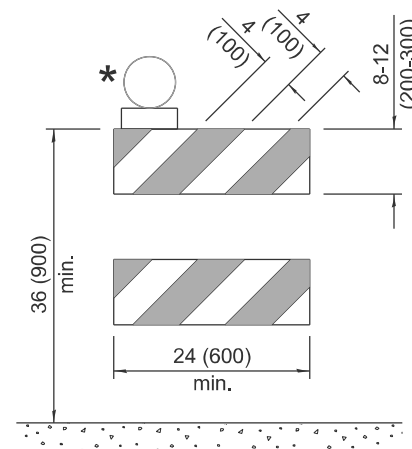


DRUM

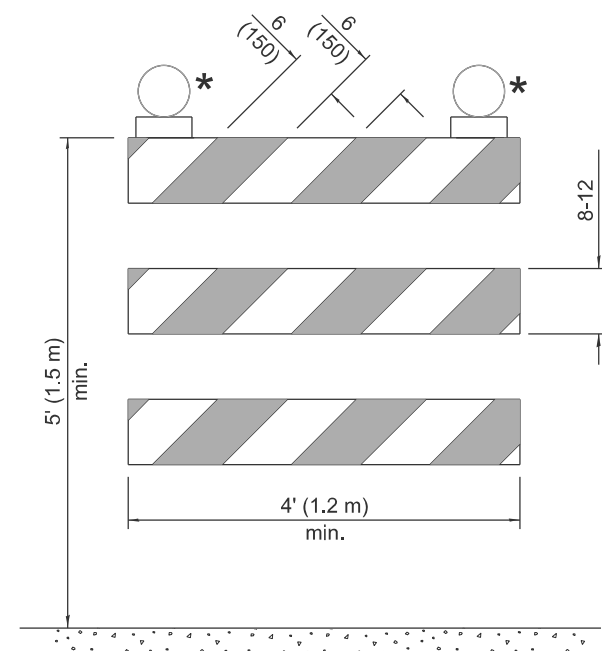
CONES



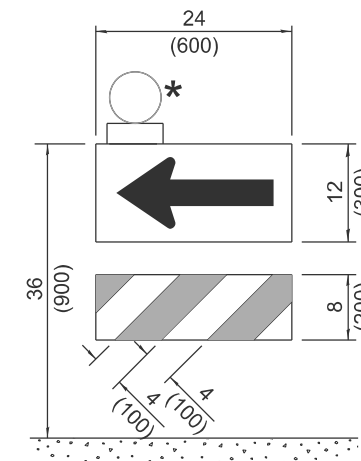
TYPE I BARRICADE



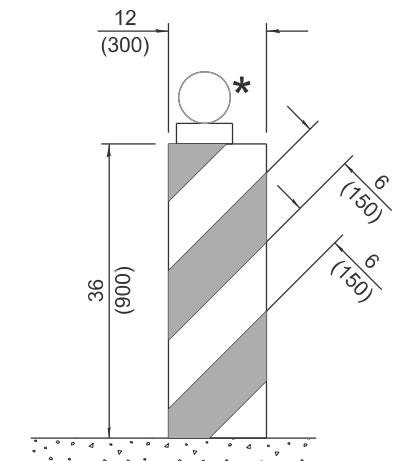
TYPE II BARRICADE



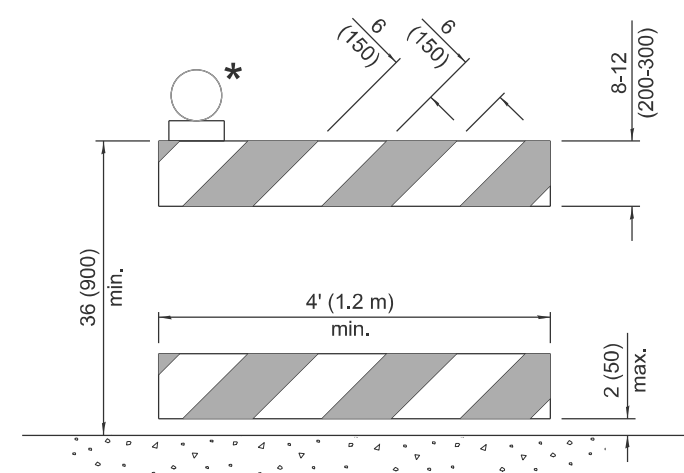
TYPE III BARRICADE



**DIRECTION INDICATOR
BARRICADE**



VERTICAL BARRICADE



**DETECTABLE PEDESTRIAN
CHANNELIZING BARRICADE**

* Warning lights (if required)

GENERAL NOTES

All heights shown shall be measured above the pavement surface.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-25	Updated Temporary Rumble Strip Detail (sht. 3).
1-1-24	Revised Type III Barricade notes (sht. 3) & moved warning light on post mounted signs to top center.

**TRAFFIC CONTROL
DEVICES**

(Sheet 1 of 3)

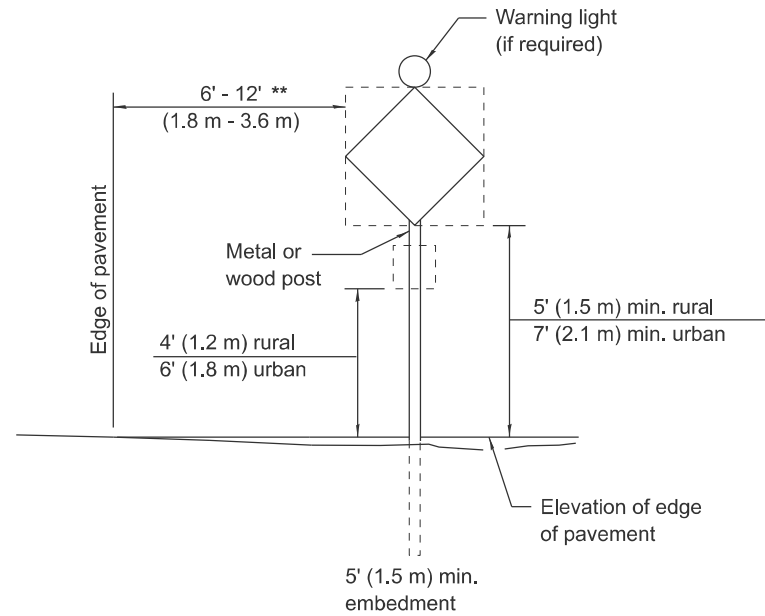
STANDARD 701901-10

Illinois Department of Transportation

APPROVED January 1, 2025
ENGINEER OF SAFETY PROG. AND ENGINEERING

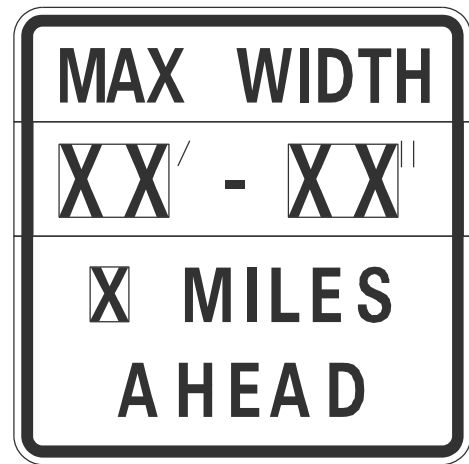
APPROVED January 1, 2025
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13



POST MOUNTED SIGNS

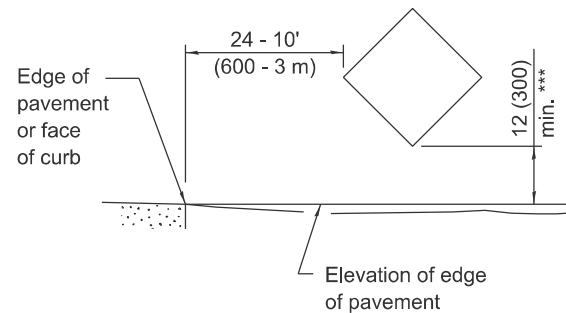
** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.



W12-I103-4848

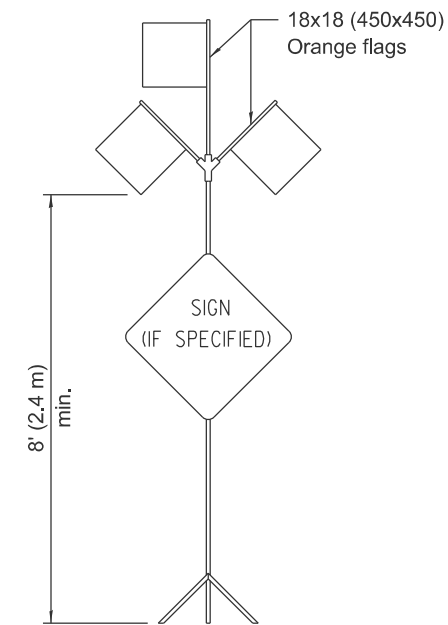
WIDTH RESTRICTION SIGN

XX'-XX" width and X miles are variable.

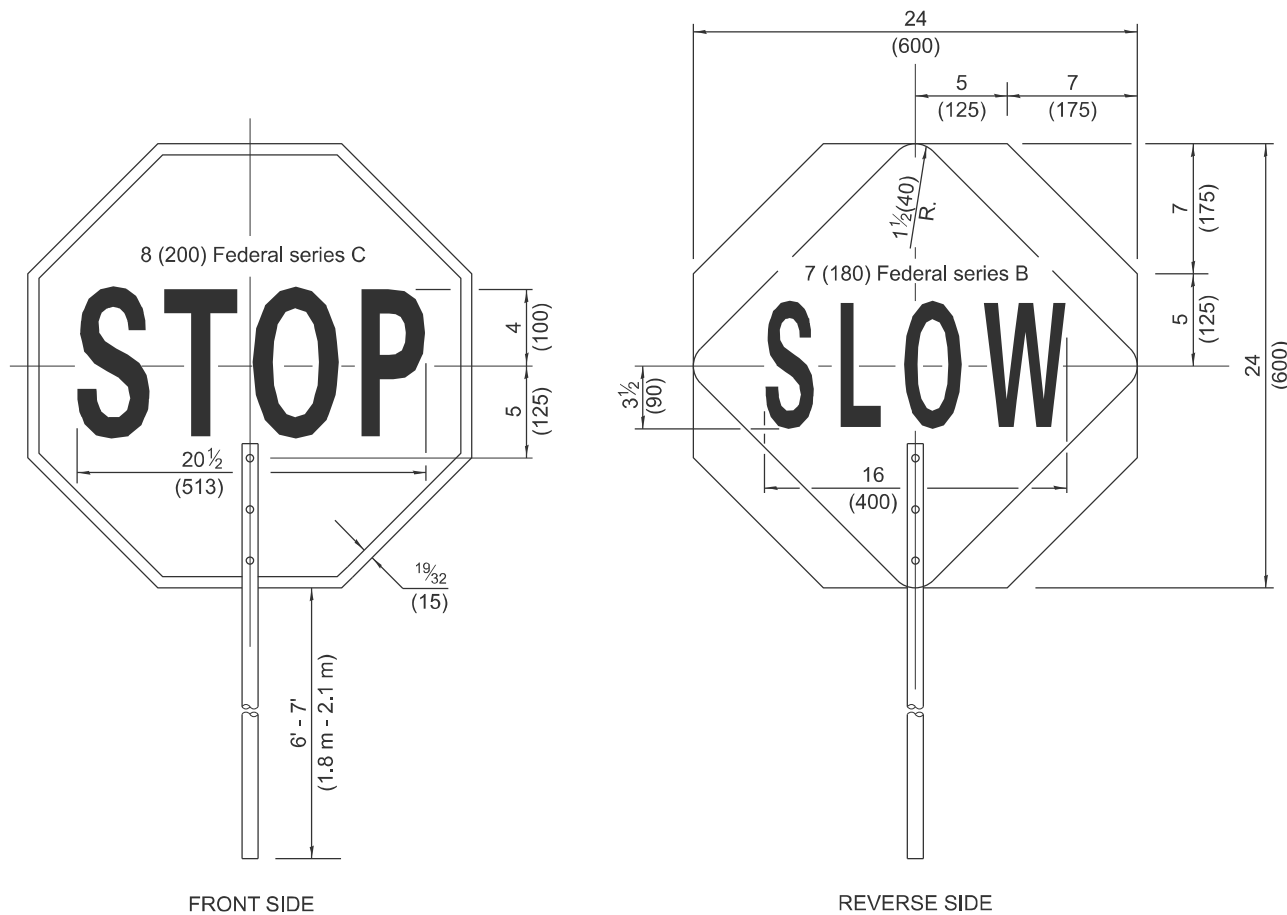


SIGNS ON TEMPORARY SUPPORTS

*** When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



HIGH LEVEL WARNING DEVICE



FLAGGER TRAFFIC CONTROL SIGN



G20-I104(0)-6036



G20-I105(0)-6024

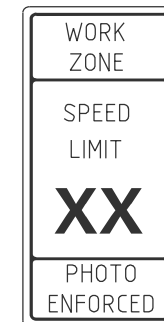
This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

Dual sign displays shall be utilized on multi-lane highways.

WORK LIMIT SIGNING



W21-III5(0)-3618

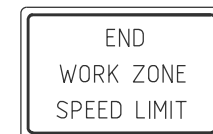
R2-1-3648

R10-I108p-3618 ****



R2-I106p-3618

Sign assembly as shown on Standards or as allowed by District Operations.



G20-I103-6036

This sign shall be used when the above sign assembly is used.

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

**** R10-I108p shall only be used along roadways under the jurisdiction of the State.

TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

STANDARD 701901-10

Illinois Department of Transportation

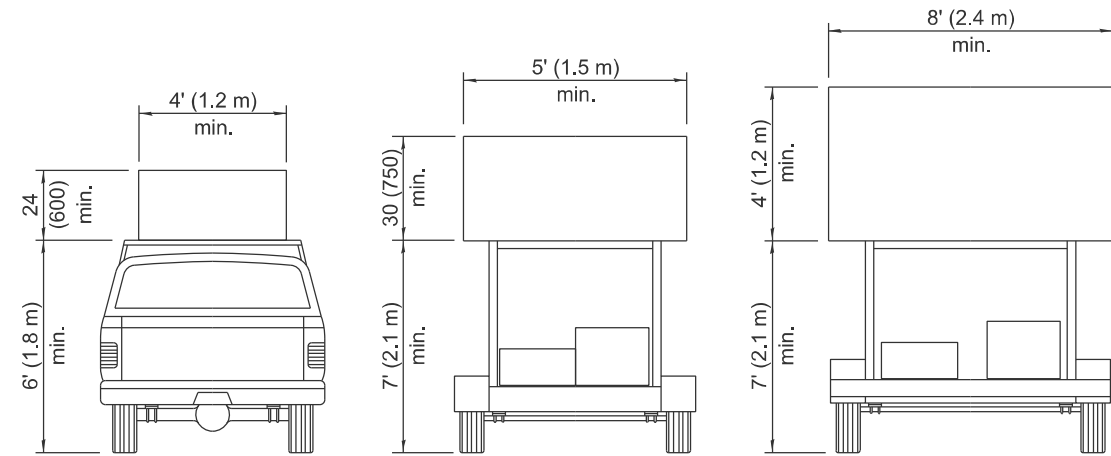
APPROVED January 1, 2025

 ENGINEER OF SAFETY, PROG. AND ENGINEERING

APPROVED January 1, 2025

 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-13

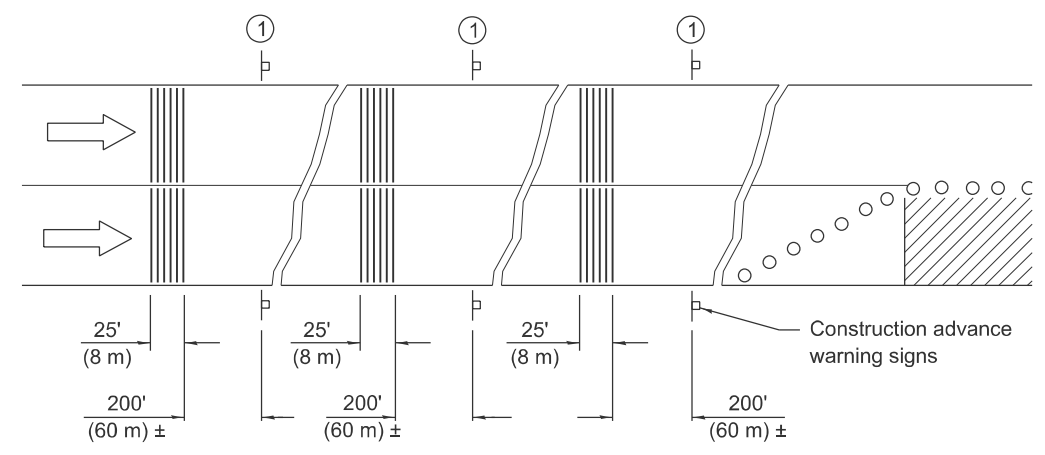


**TYPE A
ROOF
MOUNTED**

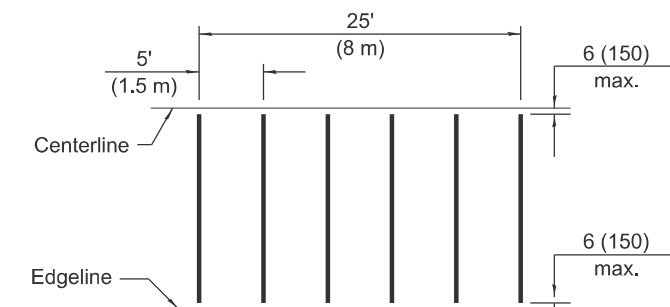
**TYPE B
ROOF OR TRAILER
MOUNTED**

**TYPE C
TRAILER
MOUNTED**

ARROW BOARDS

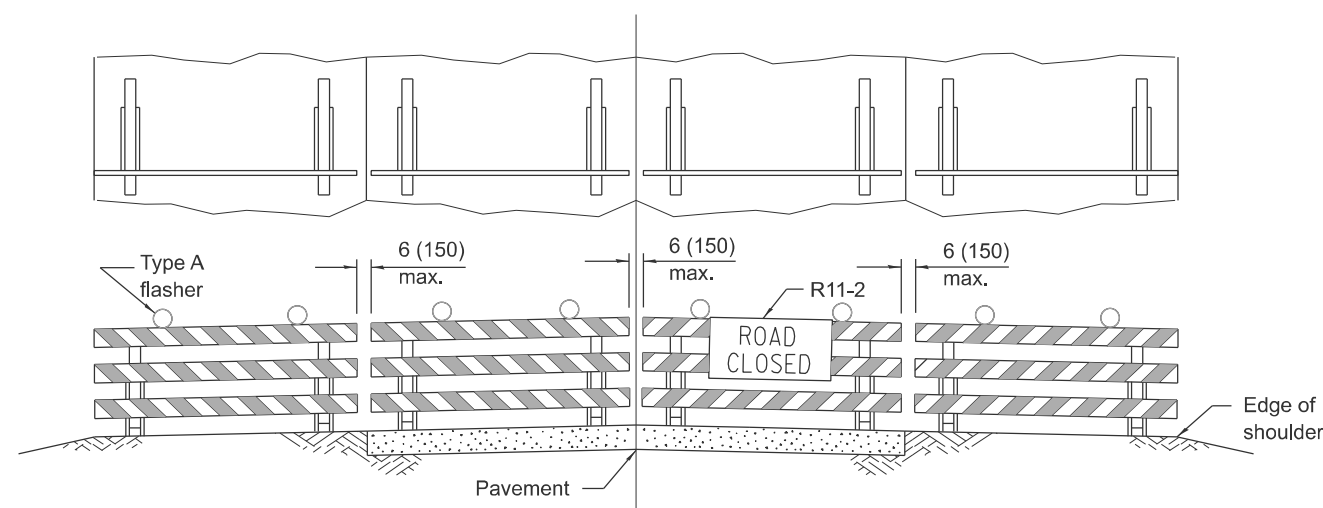


① This sign shall be omitted when median width is less than 10' (3 m).

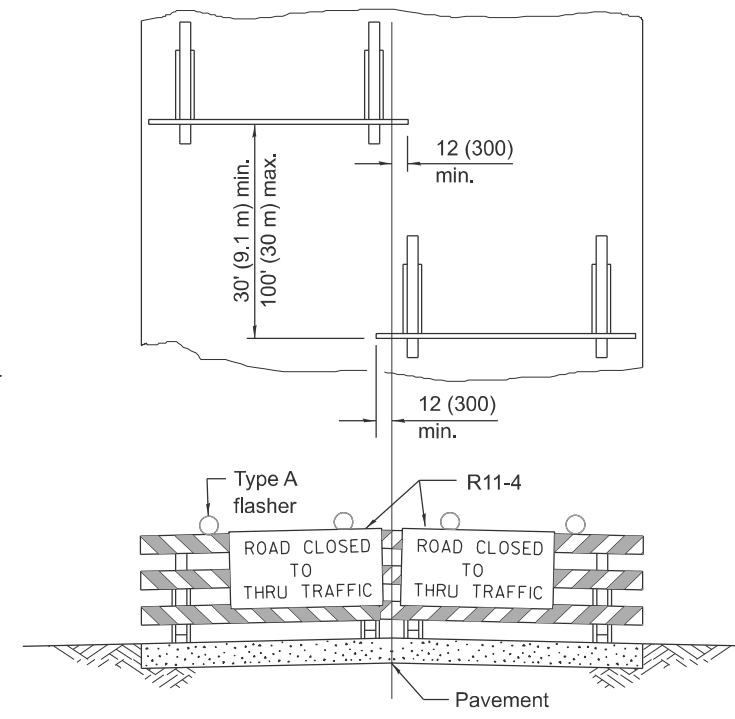


TYPICAL INSTALLATION

TEMPORARY RUMBLE STRIPS



ROAD CLOSED TO ALL TRAFFIC
 Reflectorized striping may be omitted on the back side of the barricades.



ROAD CLOSED TO THRU TRAFFIC
 Reflectorized striping shall appear on both sides of the barricades.

**TYPICAL APPLICATIONS OF
TYPE III BARRICADES CLOSING A ROAD**

If a Type III barricade with an attached sign panel which meets NCHRP 350 or MASH is not available, the sign may be mounted on an NCHRP 350 or MASH temporary sign support directly in front of the barricade.

Illinois Department of Transportation
 APPROVED January 1, 2025
 ENGINEER OF SAFETY PROG. AND ENGINEERING
 APPROVED January 1, 2025
 ENGINEER OF DESIGN AND ENVIRONMENT
 ISSUED 1-1-13

**TRAFFIC CONTROL
DEVICES**
 (Sheet 3 of 3)
STANDARD 701901-10