RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	1

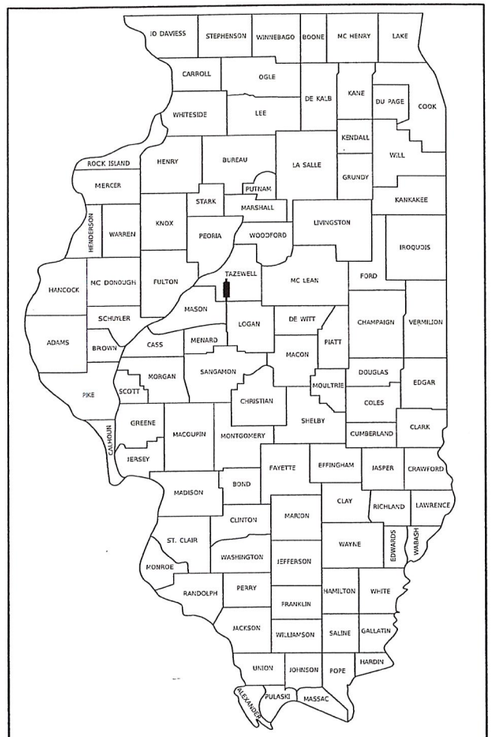
INDEX OF SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED LOCAL FUNDING PROJECT TAZEWELL COUNTY SECTION 23-00041-00-BR COUNTY HIGHWAY 11 OVER TRIBUTARY TO DRY CREEK

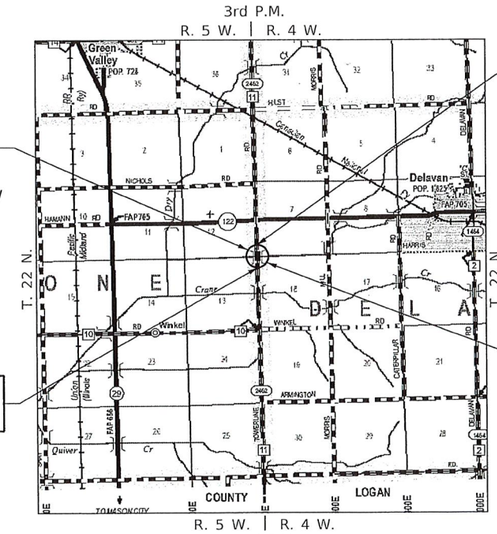
HIGHWAY STANDARDS (INCLUDED IN PROPOSAL)

000001–08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001–07	TEMPORARY EROSION CONTROL SYSTEMS
515001–04	NAME PLATE FOR BRIDGES
542401–04	METAL FLARED END SECTION FOR PIPE CULVERTS
630301–09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011–10	TRAFFIC BARRIER TERMINAL TYPE 2
701901–10	TRAFFIC CONTROL DEVICES
725001–01	OBJECT AND TERMINAL MARKERS
BLR 21–9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 22–7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 24–2	MAILBOX TURNOUT FOR LOCAL ROADS
BLR 26–3	STEEL PLATE BEAM GUARDRAIL, 29" (731mm) HEIGHT
BLR 27–1	TRAFFIC BARRIER TERMINAL TYPE 5A

SCALES
- PLAN / PROFILE HORIZ. } 25' 0 25'
- PROFILE VERT. 5' 0 5'
- CROSS SECTIONS HORIZ. / CROSS SECTIONS VERT. } 5' 0 5'



LOCATION OF SECTION INDICATED THUS: –



SECTION 23-00041-00-BR ENDS STATION 23+50.00

PROPOSED STRUCTURE SN 090-3260
SINGLE SPAN 21" PPC DK BM SUPERSTRUCTURE ON CONCRETE SPILL-THRU ABUTMENTS, 56'-0" BK TO BK, 30'-0" O TO O DECK, NO SKEW

EXISTING STRUCTURE SN 090-3030
SINGLE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAM ON CONCRETE ABUTMENT CAPS WITH PRECAST CONCRETE PILES, 43'-0" BK TO BK, AND 30'-0" O TO O DECK, NO SKEW. (TO BE REMOVED)

SECTION 23-00041-00-BR BEGINS STATION 16+50.00

LOCATION MAP

1 MI 0 1 MI
APPROXIMATE SCALE

NET LENGTH OF PROJECT = 700.00 FEET = 0.133 MILES

DESIGN CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)
DESIGN ADT = 475 (2045)
DESIGN SPEED = 50 MPH
3R DESIGN GUIDELINES ARE USED

UTILITY COMPANIES

MEDIACOM
RANTOUL, ILLINOIS

AT&T
OAK BROOK, ILLINOIS

AMEREN
COLLINSVILLE, ILLINOIS

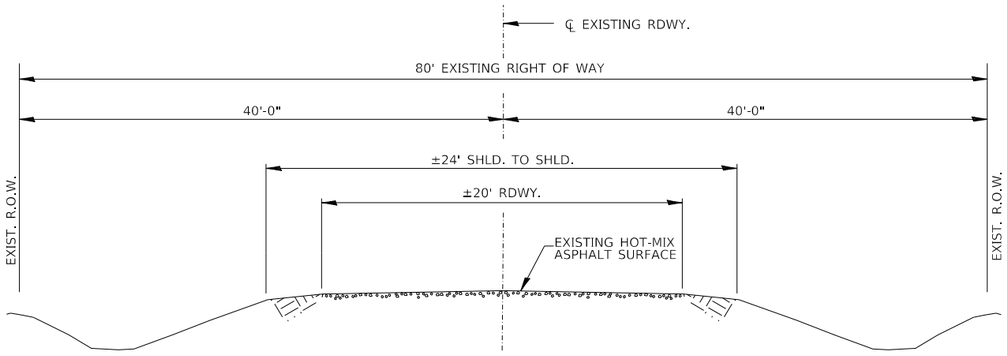
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1–800–892–0123
OR 811

DATE: 9/15/25
MATTHEW M. OGDEN
062-075436
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
EXP: 11/30/2025
SIGNATURE
ENGINEERS SEAL

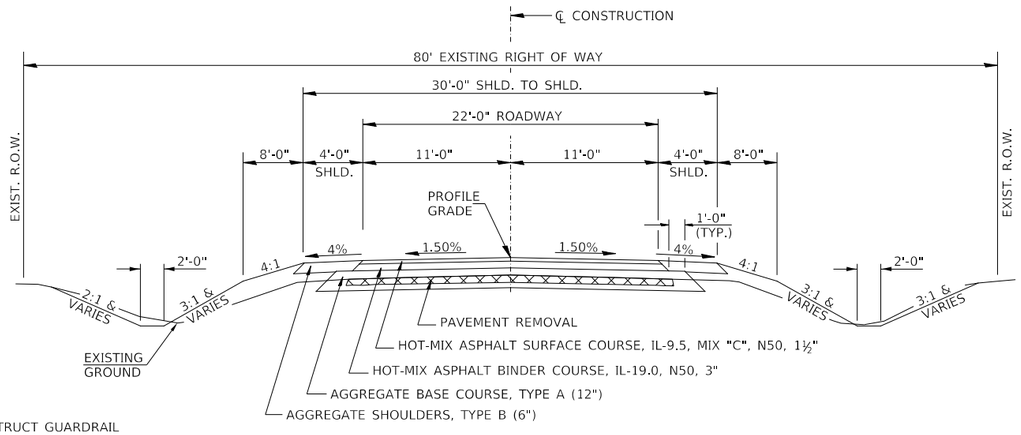
Hutchison Engineering, Inc.
2025 JOB#5269

APPROVED 16 Sep 2025 2025
TAZEWELL COUNTY ENGINEER

FILE NAME: V:\5269 - CH 11 over Tributary to Dry Creek (Tazewell)\8 - CADD\2 - CADD Sheets\5269-e001.dgn



EXISTING TYPICAL SECTION



CONSTRUCT GUARDRAIL SHOULDER WIDENING IN ACCORDANCE WITH STD 630301 AT SE CORNER OF BRIDGE

PROPOSED TYPICAL SECTION

STA. 16+50.00 TO STA. 19+72.00
STA. 20+28.00 TO STA. 23+50.00

EXCEPT TRANSITIONS

BRIDGE OMISSION
STA. 19+72.00 TO STA. 20+28.00

STRUCTURAL DESIGN INFORMATION
COUNTY HIGHWAY 11

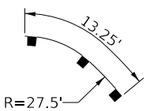
ROAD CLASSIFICATION: CLASS III 80,000 lb./20 YEAR DESIGN
STRUCTURAL DESIGN TRAFFIC:
PV = 418 SU = 33 MU = 24
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P = 88% S = 7% M = 5%
MINIMUM SUBGRADE SUPPORT RATING: FAIR
FLEXIBLE PAVEMENT DESIGN: MINIMUM TF = 0.129
ASPHALT PAVEMENT THICKNESS: 4½"
AGGREGATE BASE COURSE, TYPE A: 12"

COMMITMENTS

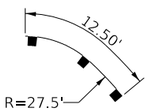
THERE ARE NO COMMITMENTS FOR THIS PROJECT.

GENERAL NOTES

1. THE REMOVAL OF EXISTING GRAVEL OR CRUSHED STONE BASE COURSE WHICH MAY BE NECESSARY FOR THE CONSTRUCTION OF THE PROJECT SHALL BE REMOVED AS EARTH EXCAVATION AND NO COMPENSATION WILL BE ALLOWED FOR ADDITIONAL LABOR OR EQUIPMENT REQUIRED.
2. ALL WASTE OR UNDESIRABLE MATERIAL AS IDENTIFIED BY THE ENGINEER SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY AT THE CONTRACTOR'S EXPENSE.
3. ALL EXISTING PRIVATELY OWNED UTILITIES REQUIRING ADJUSTMENT WILL BE MADE BY THE UTILITY COMPANY INVOLVED. WHERE NO PROVISIONS HAVE BEEN MADE FOR ADJUSTMENTS ON THE PLANS, NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO DELAYS OR INCONVENIENCES CAUSED BY THE SAID UTILITY ADJUSTMENTS.
4. THE PROFILE GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND IN THE STATION CROSS SECTIONS ARE TO THE TOP OF THE FINISHED SURFACE.
5. ALL EXISTING DRAINAGE STRUCTURES NOT BEING REMOVED BY THE CONTRACTOR THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
7. THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST KNOWLEDGE OF THE COUNTY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL INDEMNIFY THE COUNTY, ITS OFFICERS AND EMPLOYEES AGAINST ALL CLAIMS DUE TO DAMAGE TO CORPORATE OR PRIVATE PROPERTY RESULTING FROM HIS CONSTRUCTION OPERATIONS AS DESCRIBED IN ARTICLES 107.20 AND 107.26 OF THE STANDARD SPECIFICATIONS.
8. THE CONTRACTOR MAY BE REQUIRED TO CONDUCT SOME OF HIS GRADING AND TRENCHING OPERATIONS AROUND TRANSMISSION POLES AND UNDER TRANSMISSION LINES. THE ADDED COST OF SO DOING SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
9. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE PROPERTY MARKERS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
10. ALL ELEVATIONS SHOWN REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.



TRAFFIC BARRIER TERMINAL, TYPE 5A



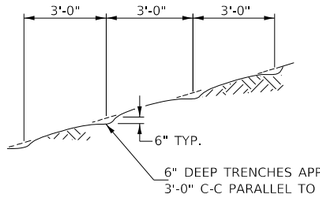
TRAFFIC BARRIER TERMINAL, TYPE 2

SHOP CURVE DETAILS
(FOR NW CORNER OF BRIDGE)

HOT–MIX ASPHALT MIXTURE REQUIREMENTS

	HMA BINDER	HMA SURFACE/INCIDENTAL HOT-MIX ASPHALT SURFACING
PG GRADE:	PG 64-22	PG 58-28
DESIGN AIR VOIDS:	4% @ N50	4% @ N50
MIXTURE COMPOSITION:	IL-19.0	IL-9.5
FRICTION AGGREGATE:		MIXTURE C
DENSITY TEST METHOD:	NUCLEAR DENSITY GAUGE	NUCLEAR DENSITY GAUGE
MIXTURE WEIGHT:	112#/SQ YD/IN	112#/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	LR1030-2	LR1030-2
SUBLOT SIZE:	N/A	N/A
LOCATION(S):	ENTIRE PROJECT	ENTIRE PROJECT

If RAP option is selected, the asphalt cement grade may need to be adjusted. This will be determined by the Engineer.



NOTE: ALL SLOPES 3:1 OR STEEPER AND GREATER THAN 5' IN HEIGHT SHALL BE CONTOUR PLOWED AS SHOWN IN DETAIL, COST SHALL BE INCLUDED WITH SEEDING, CLASS 2 (SPECIAL).

DETAIL OF CONTOUR PLOWING

MODEL: Default
FILE NAME: V:\5269 - CH 11 over Tributary to Dry Creek (Tazewell)\8 - CADD\2 - CADD Sheets\5269-001.dgn

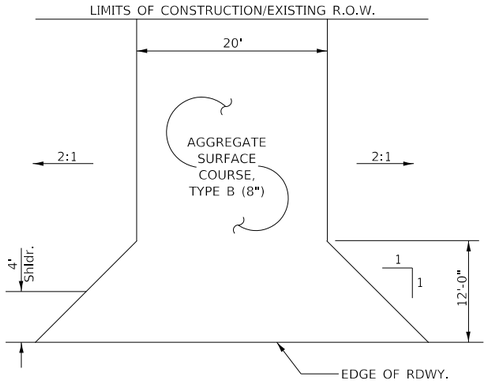
USER NAME = MOgden	DESIGNED - YP	REVISED - _____
	DRAWN - YP	REVISED - _____
PLOT SCALE = $SCALES	CHECKED - MMO	REVISED - _____
PLOT DATE = 9/15/2025	DATE - 2/27/2025	REVISED - _____

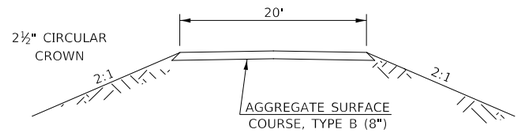
TAZEWELL COUNTY
COUNTY HIGHWAY 11
OVER TRIBUTARY TO DRY CREEK

GENERAL NOTES, TYPICAL SECTIONS, PAVEMENT DESIGN INFORMATION, DETAILS

SCALE: NONE | SHEET NO. 1 OF 2 SHEETS | STA. 16+50.00 TO STA. 23+50.00

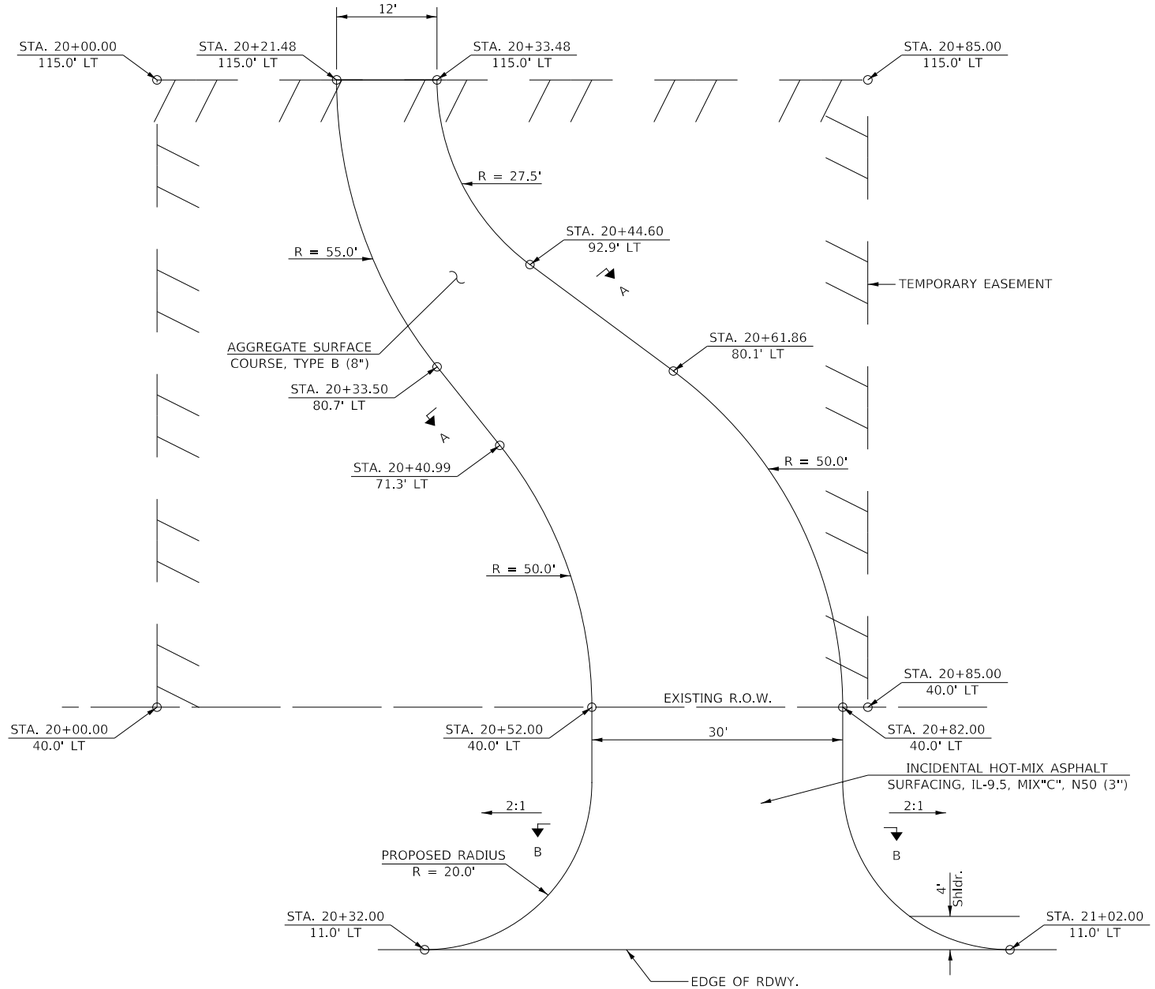
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	2
		ILLINOIS		





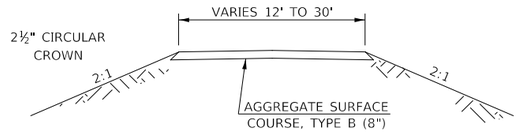
FIELD ENTRANCE

STA 18+75 RT
STA 19+50 LT
STA 20+50 RT

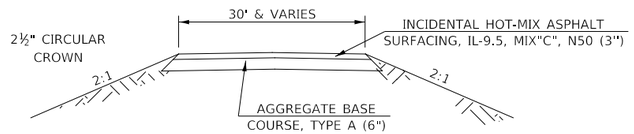


PRIVATE ENTRANCE

STA 20+67 LT



ENTRANCE DETAIL – SECTION A–A



ENTRANCE DETAIL – SECTION B–B

MODEL: Default
FILE NAME: V:\5269 - CH 11 over Tributary to Dry Creek (Tazewell)\8 - CADD\2 - CADD Sheets\5269-t002.dgn

USER NAME = MOgden	DESIGNED - YP	REVISED - _____	
	DRAWN - YP	REVISED - _____	
PLOT SCALE = $SCALE$	CHECKED - MMO	REVISED - _____	
PLOT DATE = 9/15/2025	DATE - 2/27/2025	REVISED - _____	

TAZEWELL COUNTY
COUNTY HIGHWAY 11
OVER TRIBUTARY TO DRY CREEK

GENERAL NOTES, TYPICAL SECTIONS, PAVEMENT DESIGN INFORMATION, DETAILS

SCALE: NONE | SHEET NO. 2 OF 2 SHEETS | STA. 16+50.00 TO STA. 23+50.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	3
	ILLINOIS			

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	UNIT	QUANTITY
	20200100	EARTH EXCAVATION	CU YD	380
	20300100	CHANNEL EXCAVATION	CU YD	240
CS	20400800	FURNISHED EXCAVATION	CU YD	370
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	800
	28000305	TEMPORARY DITCH CHECKS	FOOT	60
	28000400	PERIMETER EROSION BARRIER	FOOT	340
	28000500	INLET AND PIPE PROTECTION	EACH	1
	35100100	AGGREGATE BASE COURSE, TYPE A	TON	1,198
	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	191
BDE	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3,988
BDE	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	400
BDE	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	270
BDE	40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	155
BDE	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	19
SP	44000100	PAVEMENT REMOVAL	SQ YD	1,748
	48101200	AGGREGATE SHOULDERS, TYPE B	TON	163
SP	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
	50105220	PIPE CULVERT REMOVAL	FOOT	70
	50200100	STRUCTURE EXCAVATION	CU YD	60
	50300225	CONCRETE STRUCTURES	CU YD	24.3
	50300280	CONCRETE ENCASEMENT	CU YD	2.6
	50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	1,625
	50800105	REINFORCEMENT BARS	POUND	2,700
	51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	400
	51202305	DRIVING PILES	FOOT	400
	51203200	TEST PILE METAL SHELLS	EACH	2
	51500100	NAME PLATES	EACH	1
	54262724	METAL FLARED END SECTIONS 24"	EACH	2
	54262730	METAL FLARED END SECTIONS 30"	EACH	1
	54262736	METAL FLARED END SECTIONS 36"	EACH	1
SP	542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	34
SP	542D0235	PIPE CULVERTS, CLASS D, TYPE 1 30"	FOOT	76
SP	542D0241	PIPE CULVERTS, CLASS D, TYPE 1 36"	FOOT	52
BDE	58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	187
	58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	135
SP	59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	15.3
	60801030	FLAP GATE 30"	EACH	1
	60801036	FLAP GATE 36"	EACH	1
	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1
	63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2
	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1
	63200310	GUARDRAIL REMOVAL	FOOT	45
	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,575
SP	X2300017	STEEL RAILING, TYPE SM (SPECIAL)	FOOT	112
SP/BDE	X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.8
SP	X2810210	STONE RIPRAP, CLASS A5 (SPECIAL)	TON	400
SP	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
CS	Z0013798	CONSTRUCTION LAYOUT	L SUM	1

SP: SEE SPECIAL PROVISIONS
BDE: SEE BUREAU OF DESIGN AND ENVIRONMENT CHECK SHEET
CS: SEE CHECK SHEET FOR RECURRING SPECIAL PROVISIONS

PAVEMENT SCHEDULE

STATION TO STATION		WIDTH	LENGTH	AGGREGATE BASE CSE, TYPE A 140#/CF	BITUMINOUS MATERIALS (PRIME COAT) 0.25LBS/SQ FT	HOT-MIX ASPHALT BINDER CSE 112#/SQ YD/IN	BITUMINOUS MATERIALS (TACK COAT) 0.025LBS/SQ FT	HOT-MIX ASPHALT SURFACE CSE 112#/SQ YD/IN
				TON	POUND	TON	POUND	TON
16+50.00	17+00.00	25.87' AVG.	50.00'	91				
17+00.00	19+72.00	25.75'	272.00'	490				
20+28.00	23+00.00	25.75'	272.00'	490				
23+00.00	23+50.00	25.75' AVG	50.00'	91				
ENTR. - 20+67.00 LT		VARIES	29.00'	36				
16+50.00	17+00.00	24.87' AVG.	50.00'		331			
17+00.00	19+72.00	24.75'	272.00'		1,683			
20+28.00	23+00.00	24.75'	272.00'		1,683			
23+00.00	23+50.00	24.87' AVG.	50.00'		331			
16+50.00	17+00.00	22.62' AVG.	50.00'			21		
17+00.00	19+72.00	22.50'	272.00'			114		
20+28.00	23+00.00	22.50'	272.00'			114		
23+00.00	23+50.00	22.62' AVG.	50.00'			21		
16+50.00	17+00.00	22.37' AVG.	50.00'				28	
17+00.00	19+72.00	22.25'	272.00'				151	
20+28.00	23+00.00	22.25'	272.00'				151	
23+00.00	23+50.00	22.37' AVG.	50.00'				28	
16+50.00	17+00.00	22.25' AVG.	50.00'					10
17+00.00	19+72.00	22.13'	272.00'					56
BRIDGE DECK		30.00'	56.00'				42	23
20+28.00	23+00.00	22.13'	272.00'					56
23+00.00	23+50.00	22.25' AVG.	50.00'					10
TOTAL				1,198	3,988	270	400	155

EARTHWORK SUMMARY

STATION TO STATION	EARTH EXCAVATION	EARTH EXCAVATION ADJ. FOR SHRINKAGE	CHANNEL EXCAVATION	STRUCTURE EXCAVATION	FILL	WASTE (SHORTAGE)
	CU YD					
RDWY 16+50.00 - 19+72.00	178	134			263	(129)
RDWY 20+28.00 - 23+50.00	203	152			391	(239)
CHANNEL			240			
STRUCTURE				60		
TOTAL	381	286	240	60	654	(368)
USE	380	286	240	60	-	(370)*

*SUITABLE CHANNEL AND STRUCTURE EXCAVATION MAY BE USED AS EMBANKMENT. (@ 25% SHRINKAGE)

AGGREGATE SHOULDERS, TYPE B 140#/CF

STATION TO STATION		SIDE	WIDTH	LENGTH	TON
16+50.00	17+00.00	LT	VAR. 2.11' TO 4.00'	50.00'	5
16+50.00	17+00.00	RT	VAR. 1.92' TO 4.00'	50.00'	5
17+00.00	19+30.00	LT	4.00'	230.00'	32
17+00.00	18+55.00	RT	4.00'	155.00'	22
18+93.00	19+54.00	RT	8.00'	61.00'	17
19+54.00	19+72.00	RT	VAR. 5.00' TO 8.00'	18.00'	4
19+70.00	19+72.00	LT	VAR. 4.00' TO 5.00'	2.00'	1
20+28.00	20+52.00	LT	VAR. 5.00' TO 21.00'	26.00'	7
20+28.00	20+30.00	RT	VAR. 4.00' TO 5.00'	2.00'	1
20+90.00	21+02.00	LT	VAR. 0.00' TO 4.00'	12.00'	1
21+02.00	23+00.00	LT	4.00'	198.00'	28
20+89.00	23+00.00	RT	4.00'	211.00'	30
23+00.00	23+50.00	LT	VAR. 2.17' TO 4.00'	50.00'	5
23+00.00	23+50.00	RT	VAR. 2.09' TO 4.00'	50.00'	5
TOTAL					163

TRAFFIC BARRIER TERMINAL, TYPE 2

STATION TO STATION		SIDE	EACH
20+40.74	20+50.15	LEFT	1
TOTAL			1

TRAFFIC BARRIER TERMINAL, TYPE 5A

STATION TO STATION		SIDE	EACH
19+58.75	19+72.00	RIGHT	1
20+28.00	20+40.74	LEFT	1
TOTAL			2

AGGREGATE SURFACE COURSE, TYPE B 140#/CF

STATION	WIDTH	LENGTH	TON
ENTR. - 18+75.00 RT	20' & VAR.	29.00'	34
ENTR. - 19+50.00 LT	20' & VAR.	29.00'	34
ENTR. - 20+50.00 RT	20' & VAR.	29.00'	39
ENTR. - 20+67.00 LT	30' & VAR.	75.00'	84
TOTAL			191

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

STATION TO STATION		SIDE	EACH
19+08.75	19+58.75	RIGHT	1
TOTAL			1

GUARDRAIL REMOVAL

STATION TO STATION		SIDE	FOOT
20+21	20+21	LEFT	45
TOTAL			45

PERIMETER EROSION BARRIER

STATION TO STATION		SIDE	FOOT
18+58	18+92	RIGHT	35
19+40	19+72	LEFT	55
20+18	20+70	RIGHT	55
20+18	20+28	LEFT	95
20+40	20+95	LEFT	100
TOTAL			340

INLET AND PIPE PROTECTION

STATION	SIDE	EACH
18+92	RIGHT	1
TOTAL		1

INCIDENTAL HOT-MIX ASPHALT SURFACING

STATION	WIDTH	LENGTH	TON
ENTR. - 20+67.00 LT	30' & VAR.	29.00'	19
TOTAL			19

PIPE CULVERT REMOVAL

℄ STATION	SIZE	SIDE	FOOT
20+31	36"	RT	20
20+39	30"	LT	50
TOTAL			70

TEMPORARY DITCH CHECKS

STATION	SIDE	FOOT
16+50	LEFT	12
16+50	RIGHT	12
18+00	LEFT	12
23+50	RIGHT	12
23+50	LEFT	12
TOTAL		60

METAL FLARED END SECTIONS 24"

STATION	SIDE	EACH
18+58	RIGHT	1
18+92	RIGHT	1
TOTAL		2

PAINT PAVEMENT MARKING - LINE 4"

STATION TO STATION		SIDE	DESCRIPTION	FOOT
16+50.00	23+50.00	LEFT	WHITE SOLID	700
16+50.00	23+50.00	CENTER	YELLOW SKIP DASH	175
16+50.00	23+50.00	RIGHT	WHITE SOLID	700
TOTAL				1,575

PIPE CULVERTS, CLASS D, TYPE 1 24"

℄ STATION	SIDE	FOOT
18+75	RIGHT	34
TOTAL		34

FLAP GATE 36"

STATION	SIDE	EACH
20+18	RIGHT	1
TOTAL		1

METAL FLARED END SECTIONS 36"

STATION	SIDE	EACH
20+70	RIGHT	1
TOTAL		1

PAVEMENT REMOVAL

STATION TO STATION		WIDTH	LENGTH	SQ YD
16+50.00	19+79.00	22.55' AVG.	329.00'	824
20+21.00	23+50.00	22.50' AVG.	329.00'	822
EX. PRIVATE ENT.		VARIES	41.00'	102
TOTAL				1,748

PIPE CULVERTS, CLASS D, TYPE 1 36"

℄ STATION	SIDE	FOOT
20+44	RIGHT	52
TOTAL		52

FLAP GATE 30"

STATION	SIDE	EACH
20+19	LEFT	1
TOTAL		1

METAL FLARED END SECTIONS 30"

STATION	SIDE	EACH
20+95	LEFT	1
TOTAL		1

PIPE CULVERTS, CLASS D, TYPE 1 30"

℄ STATION	SIDE	FOOT
20+57	LEFT	76
TOTAL		76

MODEL: Default
FILE NAME: V:\5269 - CH 11 over Tributary to Dry Creek (Tazewell)\8 - CADD\2 - CADD Sheets\5269-sh002.dgn

USER NAME = MOgden	DESIGNED - YP	REVISED - _____	
	DRAWN - YP	REVISED - _____	
PLOT SCALE = 5SCALES	CHECKED - MMO	REVISED - _____	
PLOT DATE = 9/15/2025	DATE - 2/27/2025	REVISED - _____	

TAZEWELL COUNTY
COUNTY HIGHWAY 11
OVER TRIBUTARY TO DRY CREEK

SCHEDULES OF QUANTITIES

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. 16+50.00 | TO STA. 23+50.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	5
	ILLINOIS			

1	ROAD CLOSED ½ MILE AHEAD LOCAL TRAFFIC ONLY R11-3	ROAD CLOSED ½ MILE AHEAD LOCAL TRAFFIC ONLY
2	ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY R11-3	ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY
3	ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY R11-3	ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY
4	ROAD CLOSED AHEAD W20-3	ROAD CLOSED AHEAD
5	ROAD CLOSED 500 FT W20-3	ROAD CLOSED 500 FT
6		TYPE III BARRICADES
7		STAGGERED TYPE III BARRICADES

SEE STANDARD BLR 21, BLR 22, AND SPECIAL PROVISIONS

MODEL: Default
FILE NAME: V:\5269 - CH 11 over Tributary to Dry Creek (Tazewell)\B - CADD\2 - CADD Sheets\5269-H001.dgn

USER NAME = MOgden	DESIGNED - GMR	REVISED - _____	**TAZEWELL COUNTY** **COUNTY HIGHWAY 11** **OVER TRIBUTARY TO DRY CREEK**
	DRAWN - GMR	REVISED - _____	
PLOT SCALE = 5SCALES	CHECKED - MMO	REVISED - _____	
PLOT DATE = 3/27/2025	DATE - 2/27/2025	REVISED - _____	

TRAFFIC CONTROL PLAN

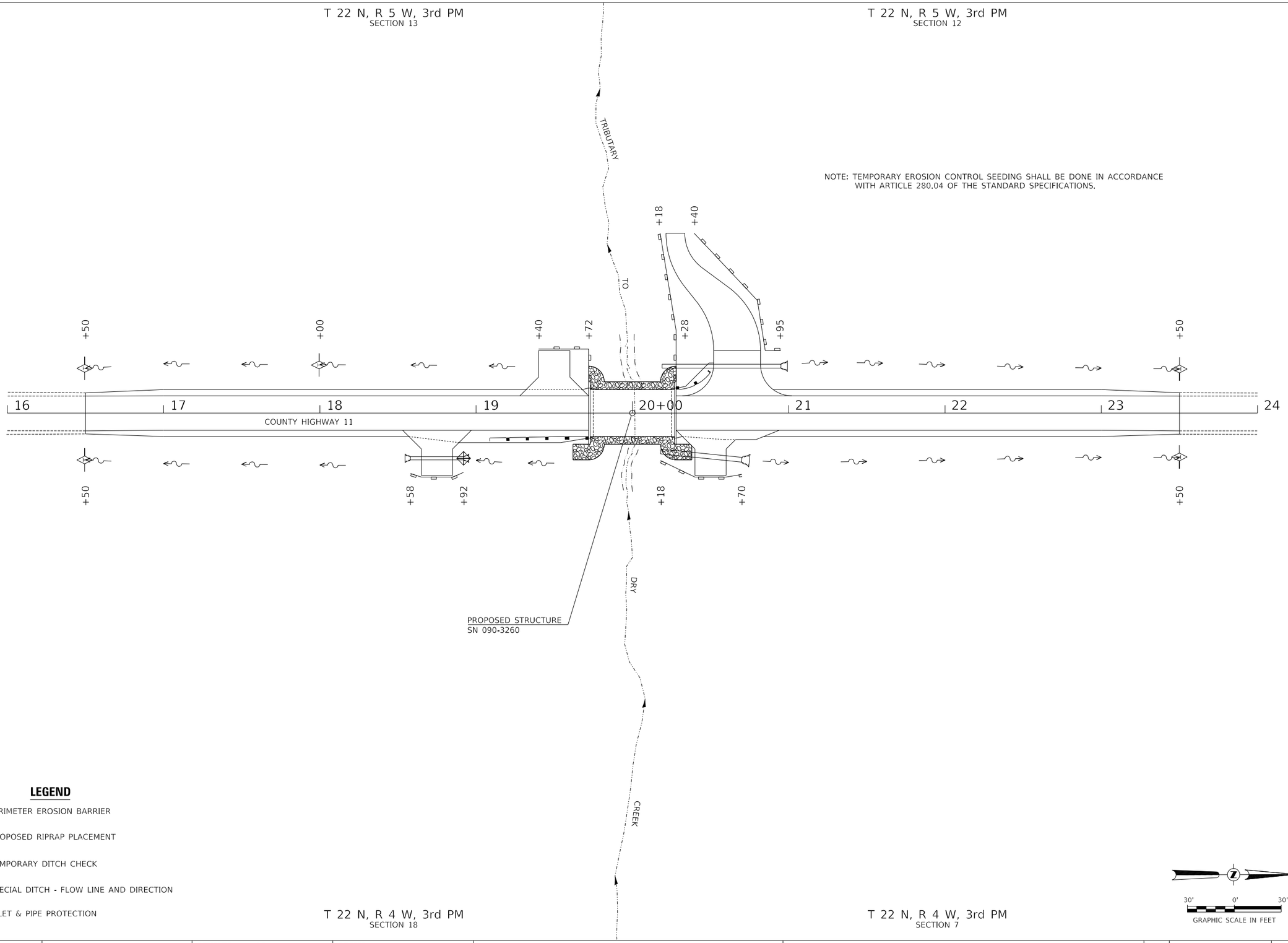
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. 16+50.00 | TO STA. 23+50.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	6
		ILLINOIS		

T 22 N, R 5 W, 3rd PM
SECTION 13

T 22 N, R 5 W, 3rd PM
SECTION 12

NOTE: TEMPORARY EROSION CONTROL SEEDING SHALL BE DONE IN ACCORDANCE WITH ARTICLE 280.04 OF THE STANDARD SPECIFICATIONS.



LEGEND

- PERIMETER EROSION BARRIER
- PROPOSED RIPRAP PLACEMENT
- TEMPORARY DITCH CHECK
- SPECIAL DITCH - FLOW LINE AND DIRECTION
- INLET & PIPE PROTECTION

T 22 N, R 4 W, 3rd PM
SECTION 18

T 22 N, R 4 W, 3rd PM
SECTION 7

30' 0' 30'
GRAPHIC SCALE IN FEET

MODEL: Default
FILE NAME: V:\5269 - CH 11 over Tributary to Dry Creek (Tazewell)\8 - CADD\2 - CADD Sheets\5269-d001.dgn

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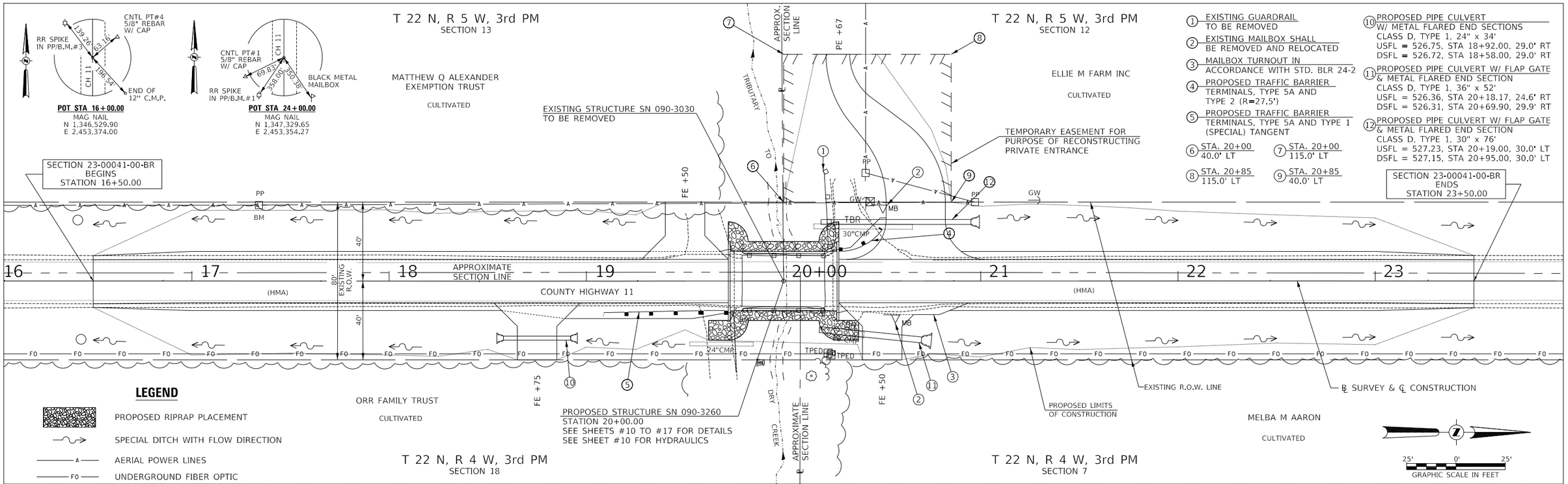
	DRAWN - YP	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - MMO	REVISED -	
PLOT DATE = 9/15/2025	DATE - 2/27/2025	REVISED -	

TAZEWELL COUNTY
COUNTY HIGHWAY 11
OVER TRIBUTARY TO DRY CREEK

STORMWATER POLLUTION PREVENTION PLAN

SCALE: 1"=30' | SHEET 1 OF 1 SHEETS | STA. 16+50.00 | TO STA. 23+50.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	7
	ILLINOIS			



USER NAME = MOgden	DESIGNED - YP	REVISED -	
	DRAWN - YP	REVISED -	
PLOT SCALE = $SCALES	CHECKED - MMO	REVISED -	
PLOT DATE = 9/15/2025	DATE - 3/25/2025	REVISED -	

TAZEWELL COUNTY
COUNTY HIGHWAY 11
OVER TRIBUTARY TO DRY CREEK

PLAN AND PROFILE

SCALE: 1"=25' | SHEET 1 OF 1 SHEETS | STA. 16+50.00 TO STA. 23+50.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	8
		ILLINOIS		

Default
V:\S269 - CH 11 over Tributary to Dry Creek (Tazewell)\8 - CADD\2 - CADD Sheets\S269-p001.dgn

T 22 N, R 5 W, 3rd PM
SECTION 13

T 22 N, R 5 W, 3rd PM
SECTION 12

TRIBUTARY TO DRY CREEK

Sta. 20+52.00, 32.00' Lt.
Sta. 20+49.00, 32.00' Lt.
Sta. 20+28.00, 42.50' Lt.
27.5' Radius (Guardrail)
*20' Radius (Edge of Entrance)
Sta. 20+32.00, 31.00' Lt.
Sta. 20+34.00, 17.00' Lt.
Sta. 20+28.00, 16.00' Lt.
Sta. 20+50.15, 26.20' Lt.
Sta. 21+02.00, 31.00' Lt.
Sta. 19+72.00, 16.00' Lt.
Sta. 19+32.00, 15.00' Lt.
Sta. 20+90.00, 15.00' Lt.
4' Shldr.
Sta. 19+68.00, 15.00' Lt.
Sta. 20+32.00, 11.00' Lt.
Sta. 20+28.00, 15.00' Lt.
Sta. 21+02.00, 11.00' Lt.
11' Lane
11' Lane
COUNTY HIGHWAY 11
19
20+00
21
11' Lane
11' Lane
Sta. 19+08.75, 16.00' Rt.
Sta. 19+72.00, 15.00' Rt.
Sta. 19+58.75, 15.00' Rt.
Sta. 20+32.00, 15.00' Rt.
4' Shldr.
8' Shldr.
6' Shldr.
4' Shldr.
Sta. 20+94.00, 11.00' Rt.
Sta. 20+84.00, 15.00' Rt.
Sta. 20+79.00, 17.00' Rt.
Sta. 20+66.00, 17.00' Rt.
Sta. 20+59.00, 17.00' Rt.
Sta. 19+72.00, 16.00' Rt.
Sta. 20+28.00, 16.00' Rt.
Sta. 18+89.00, 19.00' Rt.
Sta. 19+54.00, 19.00' Rt.
Sta. 18+57.00, 15.00' Rt.

DRY CREEK

T 22 N, R 4 W, 3rd PM
SECTION 18

T 22 N, R 4 W, 3rd PM
SECTION 7

10' 0' 10'
GRAPHIC SCALE IN FEET

MODEL: Default
FILE NAME: V:\5269 - CH 11 over Tributary to Dry Creek (Tazewell)\B - CADD\2 - CADD Sheets\5269-pp002.dgn

USER NAME = MOgden	DESIGNED - YP	REVISED - _____	**TAZEWELL COUNTY** **COUNTY HIGHWAY 11** **OVER TRIBUTARY TO DRY CREEK**
	DRAWN - YP	REVISED - _____	
PLOT SCALE = sSCALEs	CHECKED - MMO	REVISED - _____	
PLOT DATE = 9/15/2025	DATE - 3/27/2025	REVISED - _____	

PLAN – ROADWAY DETAILS

SCALE: 1"=10' | SHEET 1 OF 1 SHEETS | STA. 16+50.00 | TO STA. 23+50.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	9
	ILLINOIS			

B.M.: RR Spike in PP
Sta. 17+34, 38' Lt.
Elev. 529.57

B.M.: Cut "□" in Corner of
Concrete Wingwall
Sta. 19+79, 16' Rt.
Elev. 531.68

Existing Structure:

A single span precast prestressed concrete deck beam superstructure on concrete abutment caps with precast concrete piles. The structure is 43'-0" back to back of abutments, 30'-0" out to out of deck, and is not skewed. Str. No. 090-3030

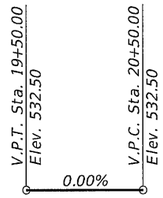
Salvage: None

Road to be closed to traffic during construction.

TRIBUTARY TO DRY CREEK
BUILT 202_ BY
TAZEWELL COUNTY
SEC. 23-00041-00-BR
C.H. 11 STATION 20+00.00
STR. NO. 090-3260 LOADING HL-93

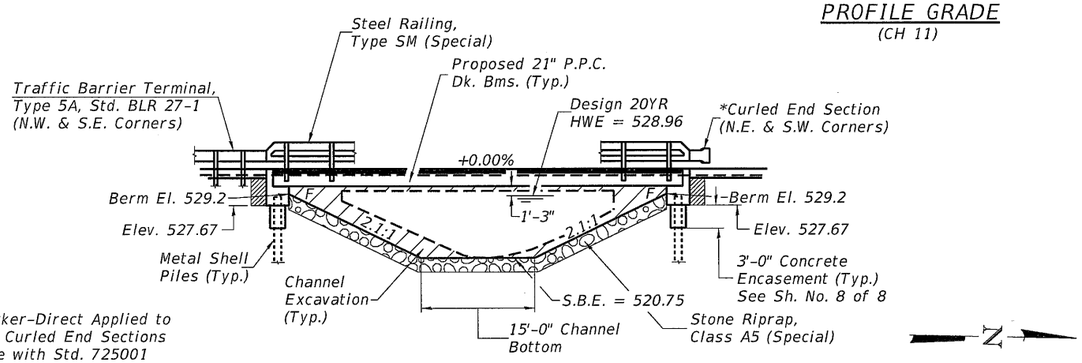
NAME PLATE

Locate Name Plate at S.E. Wingwall Corner of Bridge (See Std. 515001)



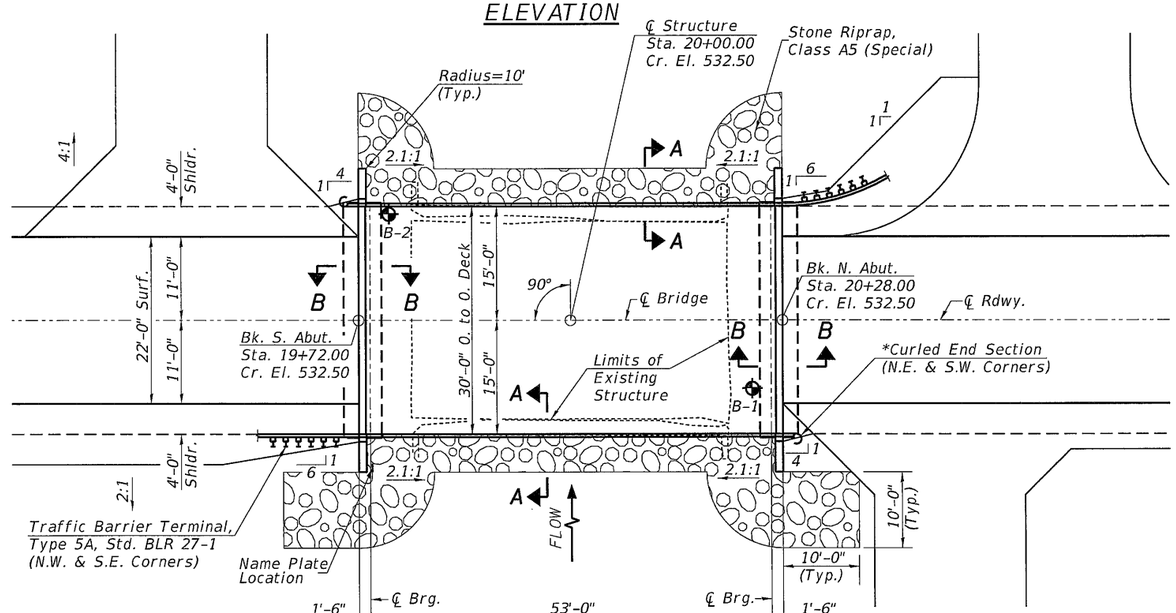
PROFILE GRADE

(CH 11)



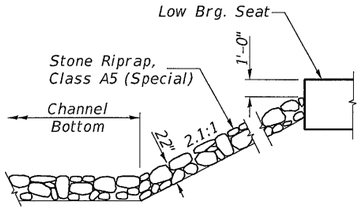
*Terminal Marker-Direct Applied to be placed on Curled End Sections in accordance with Std. 725001

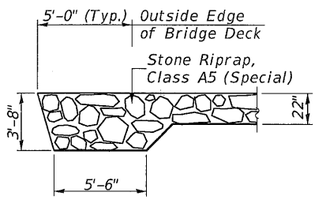
ELEVATION



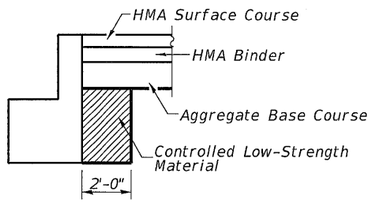
PLAN

STONE RIPRAP DETAIL





SECTION A-A



SECTION B-B

DESIGN SCOUR TABLE

Location	S. Abut.	N. Abut.
Design Scour Elevation	527.67	527.67

WATERWAY INFORMATION

Drainage Area = 8.45 Sq. Mi. Low Grade Elev. = 530.62 @ Sta. 24+00.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	20	2,249	190	263	528.96	1.68	1.66	530.64	530.62
Base	100	3,440	197	273	529.16	1.79	1.72	530.95	530.88

GENERAL NOTES

For Soil Boring Logs, See Special Provisions.

A Corrosion Inhibitor shall be used in the concrete for Precast Prestressed Concrete Deck Beams according to Articles 1020.05(b)(10) and 1021.07 of the Standard Specifications.

Reinforcement Bars designated (E) shall be epoxy coated.

Layout of the slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	TOTAL
	Channel Excavation	CU YD	———	240	240
	Bituminous Materials (Tack Coat)	POUND	42	———	42
	Hot-Mix Asphalt Surface Course, IL-9.5, Mix "C", N50	TON	23	———	23
(1)	Removal of Existing Structures	EACH	———	———	1
	Structure Excavation	CU YD	———	60	60
	Concrete Structures	CU YD	———	24.3	24.3
	Concrete Encasement	CU YD	———	2.6	2.6
	Precast Prestressed Concrete Deck Beams (21" Depth)	SQ FT	1,625	———	1,625
	Reinforcement Bars	POUND	———	2,700	2,700
	Furnishing Metal Shell Piles 12"x0.250"	FOOT	———	400	400
	Driving Piles	FOOT	———	400	400
	Test Pile Metal Shells	EACH	———	2	2
	Name Plates	EACH	———	1	1
(1)	Steel Railing, Type SM (Special)	FOOT	112	———	112
(1)	Stone Riprap, Class A5 (Special)	TON	———	400	400
(1)	Waterproofing Membrane System	SQ YD	187	———	187
	Portland Cement Mortar Fairing Course	FOOT	135	———	135
(1)	Controlled Low-Strength Material	CU YD	———	15.3	15.3
	Terminal Marker - Direct Applied	EACH	2	———	2

(1) See Special Provisions

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.

This design complies with all requirements of the current AASHTO Guide Specifications for Seismic Design of highway bridges.

4/9/25

Illinois Structural No. 6527
Expires 11/30/2026

BENJAMIN A. NEBEL
084-006527
LICENSED STRUCTURAL ENGINEER
4/9/25
ILLINOIS

lic exp. 11/30/26

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

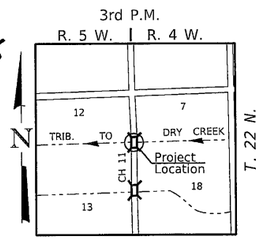
DESIGN STRESSES

(FIELD UNITS)
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (Rein.)

(PRECAST PRESTRESSED UNITS)
f'c = 6,000 p.s.i.
f'ci = 5,000 p.s.i.
f's = 270,000 p.s.i. (½" Strands)
f'si = 201,960 p.s.i. (½" Strands)

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.



LOCATION SKETCH

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	DRAWN - YP	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MMO/BAN	REVISED -	
PLOT DATE = 4/9/2025	DATE - 2/25/2025	REVISED -	

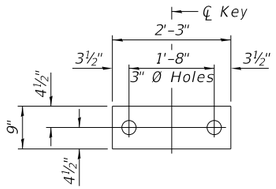
TAZEWELL COUNTY
COUNTY HIGHWAY 11
OVER TRIBUTARY TO DRY CREEK

GENERAL PLAN & ELEVATION

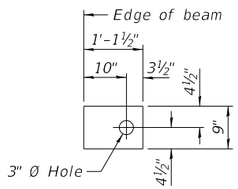
SCALE: NONE | SHEET 1 OF 8 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	10
	SN 090-3260			
	ILLINOIS			

5269-b001.dgn 4/9/2025 $TIME$

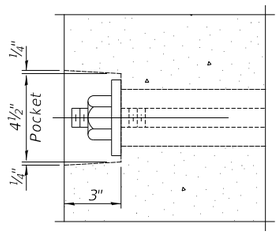


½" FABRIC BEARING PAD
(Interior) 18 Required

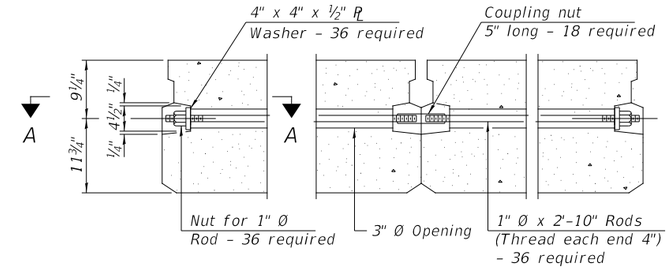


½" FABRIC BEARING PAD
(Exterior) 4 Required

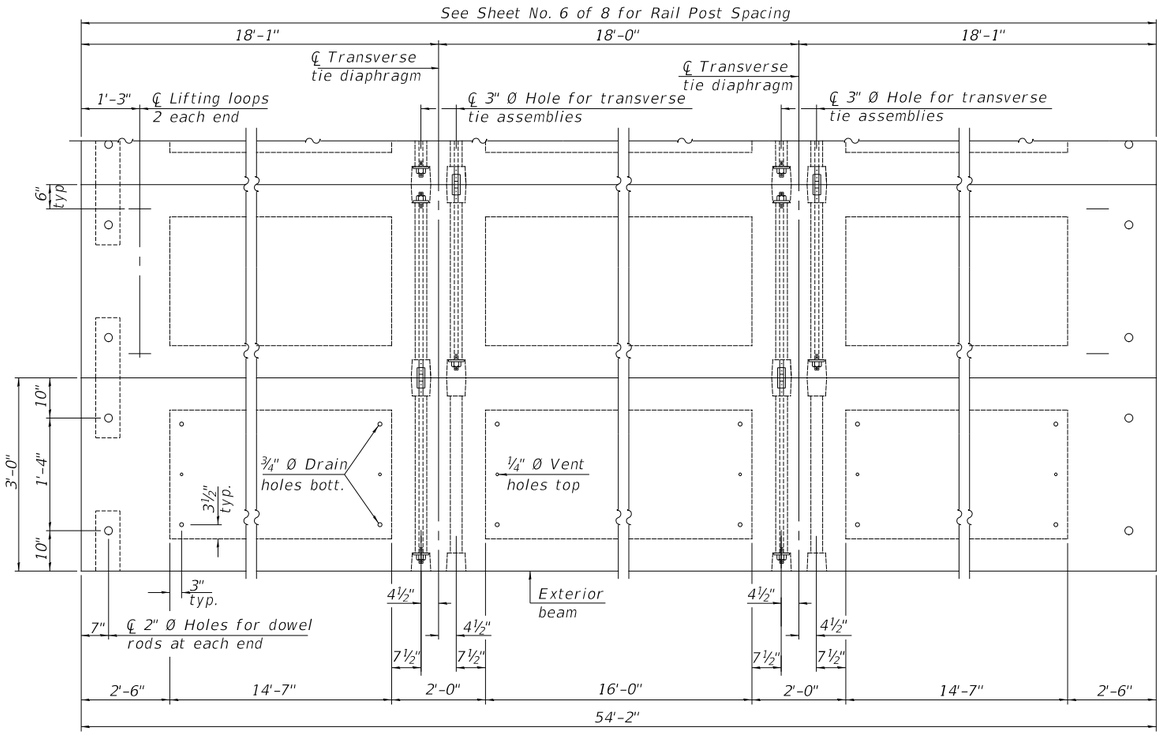
FIXED



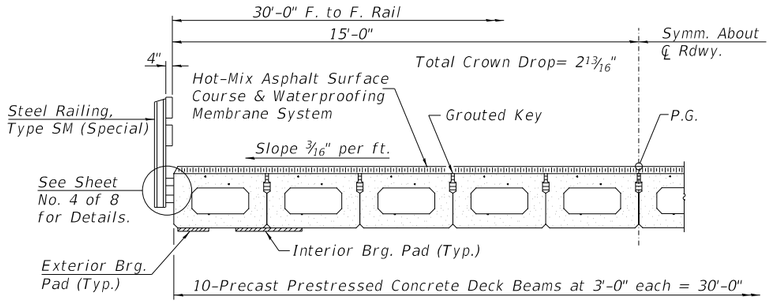
SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY



PLAN VIEW



HALF CROSS SECTION

Note: Connect beams in pairs with the transverse tie configuration shown.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Precast Prestressed Concrete Deck Beams (21" Depth)	SQ FT	1,625

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" Ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" Ø lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

5269-b001.dgn 9/27/2025 3:34:46 PM

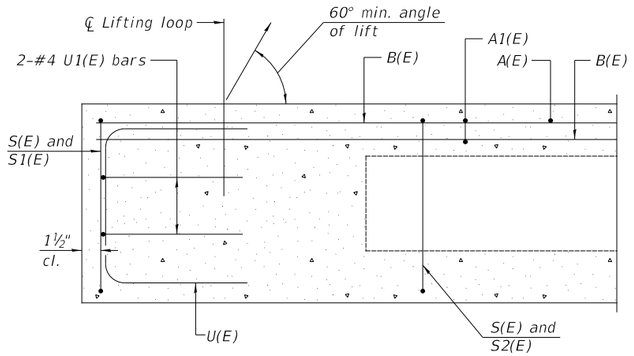
USER NAME = MOgden	DESIGNED - YP	REVISED -
	DRAWN - YP	REVISED -
PLOT SCALE = 5SCALES	CHECKED - MMO/BAN	REVISED -
PLOT DATE = 3/27/2025	DATE - 2/25/2025	REVISED -

TAZEWELL COUNTY
COUNTY HIGHWAY 11
OVER TRIBUTARY TO DRY CREEK

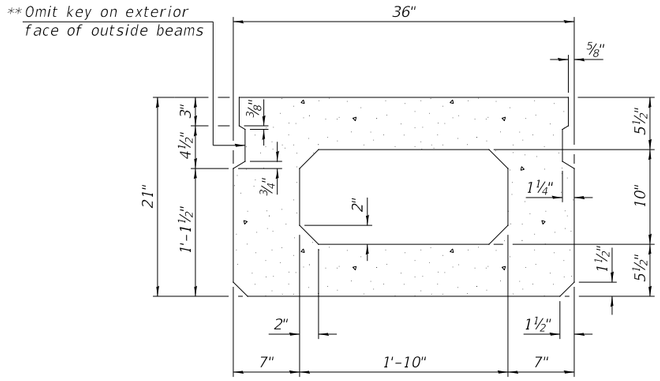
SUPERSTRUCTURE

SCALE: NONE | SHEET 2 OF 8 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	11
	SN 090-3260			
	ILLINOIS			

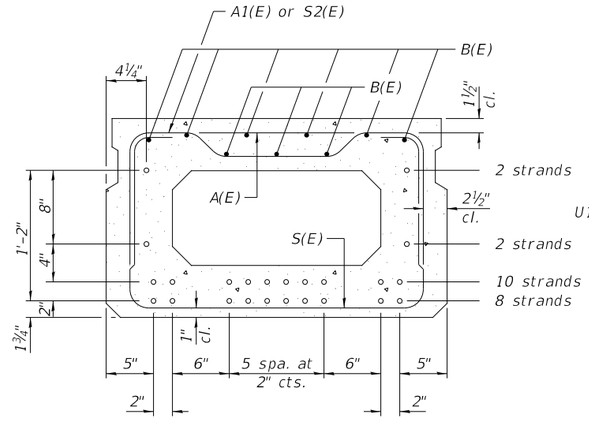


SECTION A-A

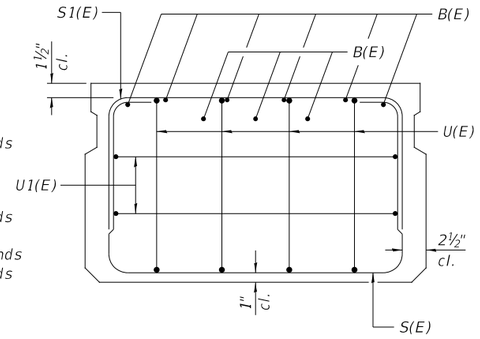


SECTION B-B
(Showing dimensions)

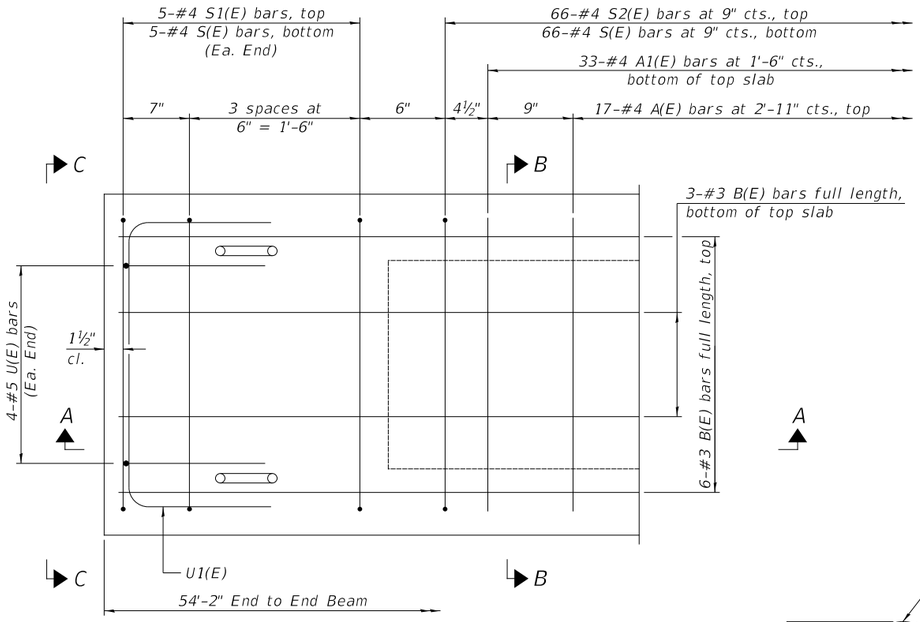
**Rail post anchor devices (Sheet No. 4 of 8) to be cast into exterior face of outside beams.



SECTION B-B
(Showing reinforcement and permissible strand locations)
22-½"Ø Strands Each Strand Stressed to 30,900 Lbs.
8-Strands 1¾" up, 10-Strands 3¾" up,
2-Strands 7¾" up, 2-Strands 15¾" up
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

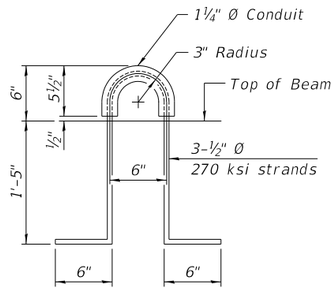


VIEW C-C

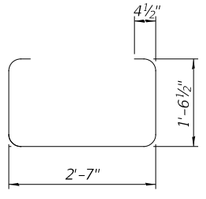


PLAN VIEW

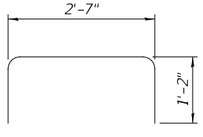
Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



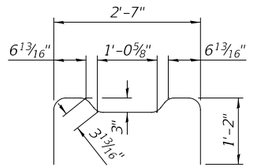
LIFTING LOOP DETAIL



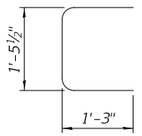
BAR S(E)



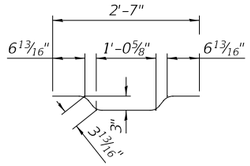
BAR S1(E)



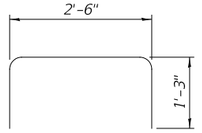
BAR S2(E)



BAR U(E)



BAR A1(E)



BAR U1(E)

BAR LIST
ONE BEAM ONLY
(For information only)

BAR	NO.	SIZE	LENGTH	SHAPE
A(E)	17	#4	2'-7"	—
A1(E)	33	#4	2'-10"	~
B(E)	9	#3	*53'-11"	—
S(E)	76	#4	6'-5"	⊔
S1(E)	10	#4	4'-11"	⊓
S2(E)	66	#4	5'-2"	⊓
U(E)	8	#5	4'-0"	⊏
U1(E)	4	#4	5'-0"	⊓

Note:
See Sheet No. 2 of 8 for additional details and Bill of Material.

*Total length, lap as necessary.

MINIMUM BAR LAP
#3 bar = 1'-6"

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USER NAME = MOgden	DESIGNED - YP	REVISED - _____	
	DRAWN - YP	REVISED - _____	
PLOT SCALE = sSCALE$	CHECKED - MMO/BAN	REVISED - _____	
PLOT DATE = 3/27/2025	DATE - 2/25/2025	REVISED - _____	

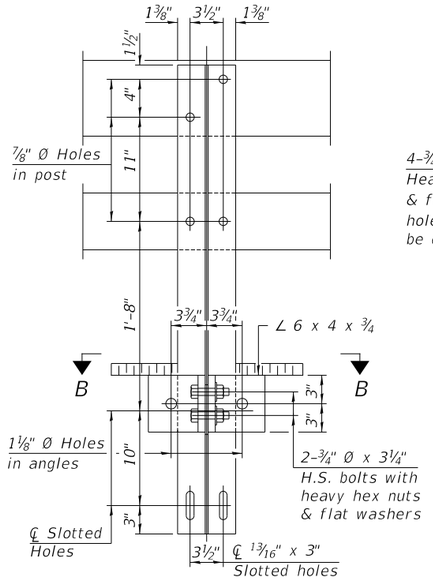
TAZEWELL COUNTY
COUNTY HIGHWAY 11
OVER TRIBUTARY TO DRY CREEK

SUPERSTRUCTURE DETAILS

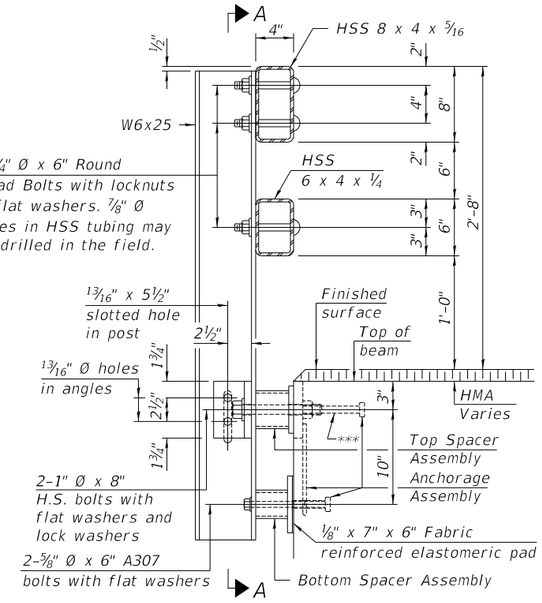
SCALE: NONE | SHEET 3 OF 8 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	12
	SN 090-3260			
	ILLINOIS			

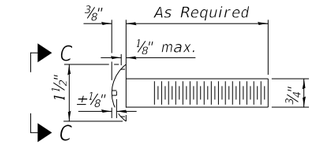
SEE SHEET NO. 6 OF 8 FOR RAIL POST SPACING



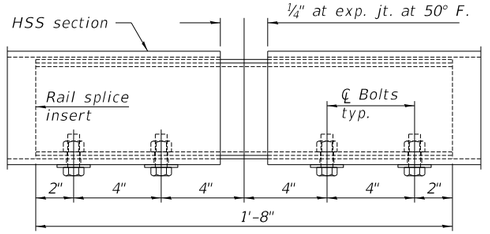
SECTION A-A



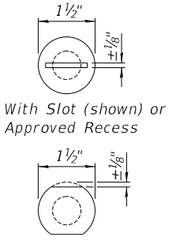
SECTION AT RAIL POST



ROUND HEAD BOLT DETAIL



RAIL SPLICE ELEVATION



VIEW C-C

NOTES

All field drilled holes shall be coated with an approved zinc rich paint before erection.

A sufficient number of shims of various thicknesses, sized to fit behind the top spacer assembly, 5" x 11½", and bottom spacer assembly, 6" x 7", shall be provided to adjust posts for proper alignment. If the summation of shims is greater than ¼" (top) or ½" (bottom), longer bolts are required. Cost included with Steel Railing, Type SM (Special).

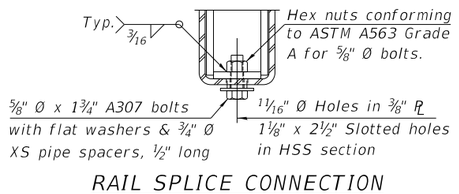
All steel rail elements including shims shall be galvanized according to Article 509.05 of the Standard Specifications.

All HSS tubing serving as railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.

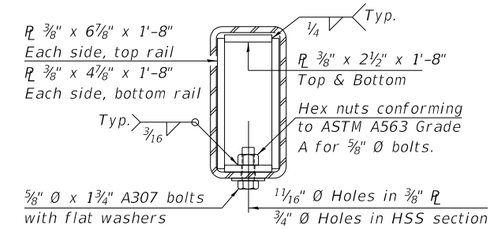
All round head bolts shall be ASTM A307 with locknuts according to ASTM A563 grade A.

Rail splice inserts may be built out of 2-⅜" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.

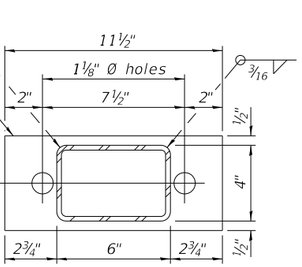
*** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



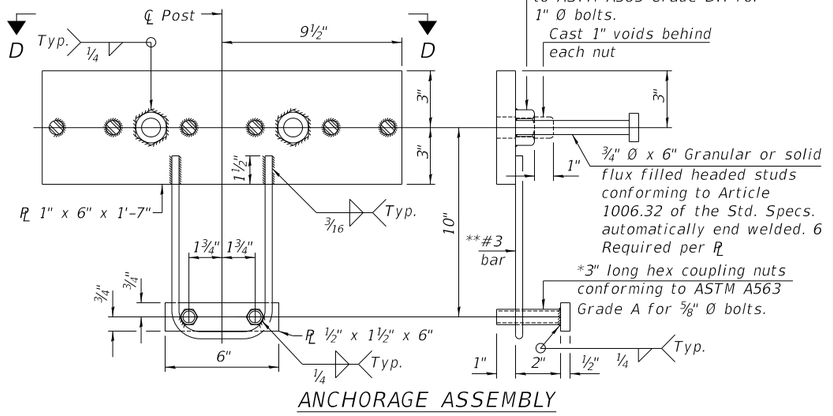
RAIL SPLICE CONNECTION AT EXPANSION JT.



SECTION AT RAIL SPLICE

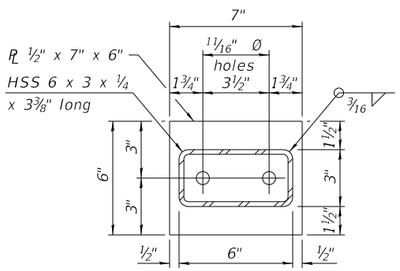


SECTION B-B

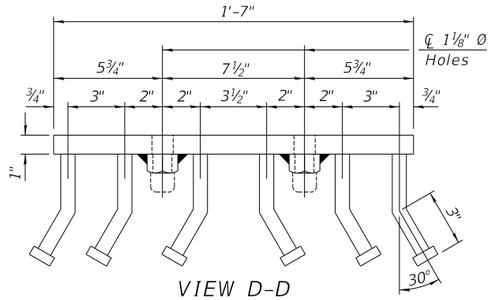


ANCHORAGE ASSEMBLY

TOP SPACER ASSEMBLY



BOTTOM SPACER ASSEMBLY



VIEW D-D

*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

**Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed ½".

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Steel Railing, Type SM (Special)	FOOT	112
Terminal Marker - Direct Applied	EACH	2

(Sheet 1 of 2)

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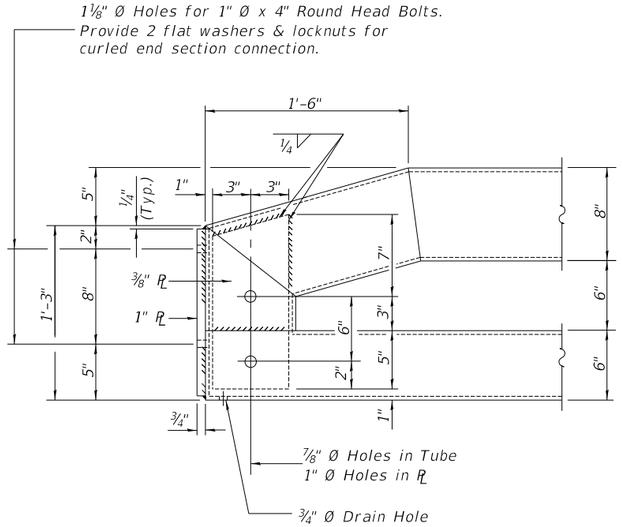
USER NAME = MOgden	DESIGNED - YP	REVISED -	
	DRAWN - YP	REVISED -	
PLOT SCALE = 1'SCALES	CHECKED - MMO/BAN	REVISED -	
PLOT DATE = 3/27/2025	DATE - 2/25/2025	REVISED -	

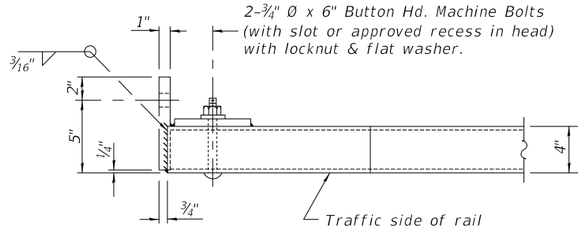
TAZEWELL COUNTY
COUNTY HIGHWAY 11
OVER TRIBUTARY TO DRY CREEK

STEEL RAILING, TYPE SM (SPECIAL)

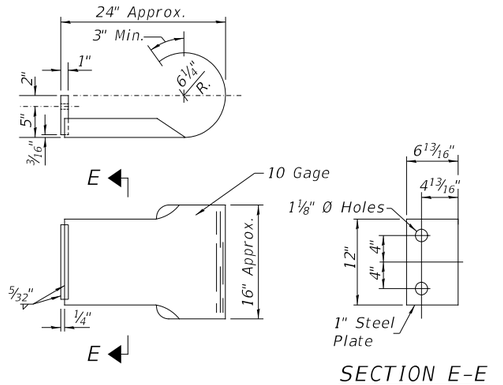
SCALE: NONE | SHEET 4 OF 8 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	13
	SN 090-3260			
	ILLINOIS			





END OF RAIL DETAILS



SECTION E-E

CURLED END SECTION

(2 Req'd) Cost Included with Steel Railing, Type SM (Special).
Terminal Markers – Direct Applied shall be placed on
end of each Curled End Section. (N.E. & S.W. Corners)

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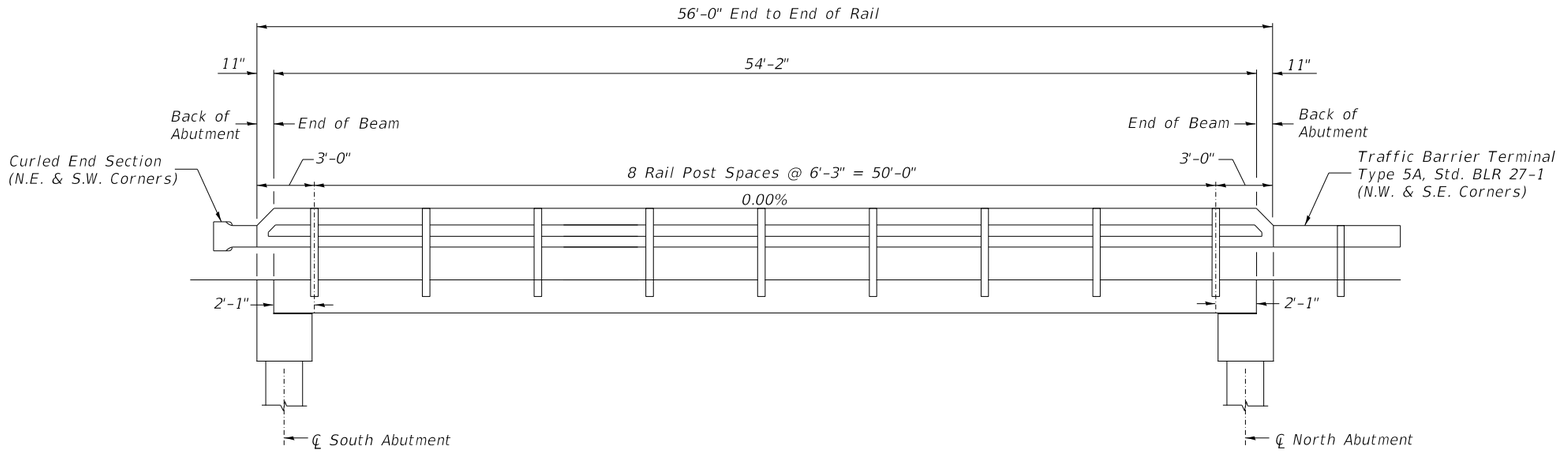
USER NAME = MOgden	DESIGNED - YP	REVISED - _____	**TAZEWELL COUNTY** **COUNTY HIGHWAY 11** **OVER TRIBUTARY TO DRY CREEK**
	DRAWN - YP	REVISED - _____	
PLOT SCALE = $SCALE$	CHECKED - MMO/BAN	REVISED - _____	
PLOT DATE = 3/27/2025	DATE - 2/25/2025	REVISED - _____	

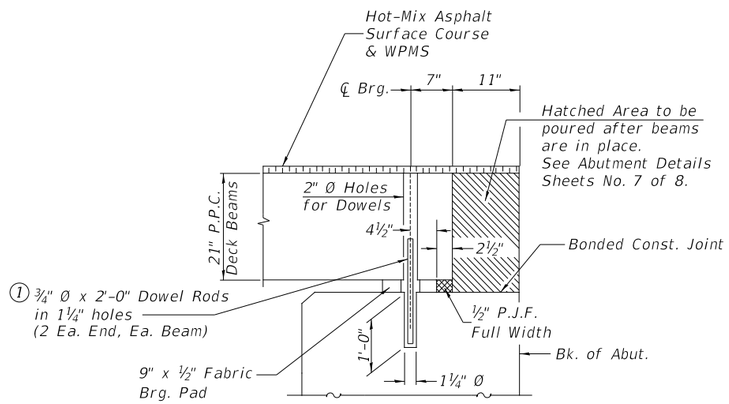
STEEL RAILING, TYPE SM (SPECIAL)

SCALE: NONE | SHEET 5 OF 8 SHEETS

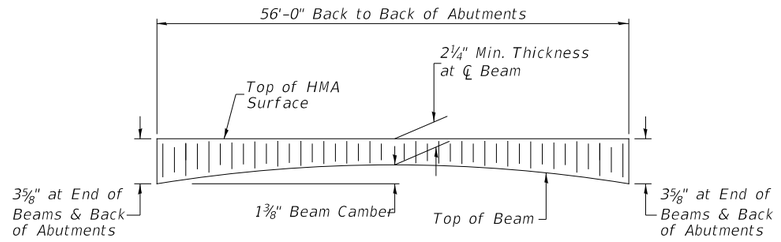
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	14
	SN 090-3260			
	ILLINOIS			



RAIL POST SPACING



SECTION THRU ABUTMENTS



HOT-MIX ASPHALT SURFACE PROFILE

Includes Waterproofing Membrane System (±¾)

① Dowel Rods to be grouted after beams are in place and allowed to cure (Min. 24 hr.) prior to grouting the shear keys.

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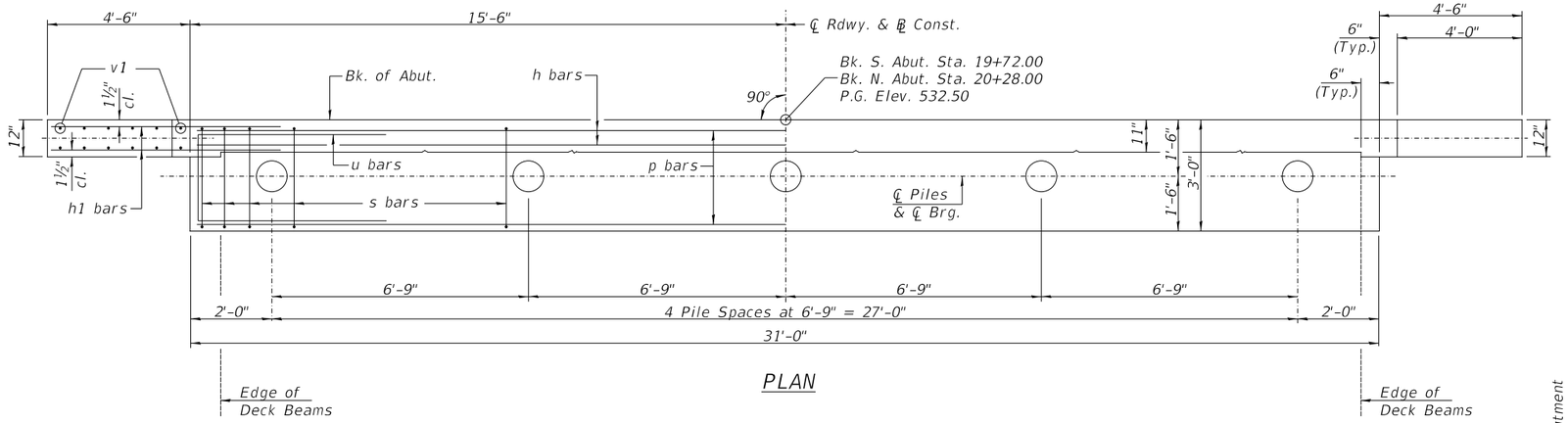
USER NAME = MOgden	DESIGNED - YP	REVISED - _____
	DRAWN - YP	REVISED - _____
PLOT SCALE = sSCALEs	CHECKED - MMO/BAN	REVISED - _____
PLOT DATE = 3/27/2025	DATE - 2/25/2025	REVISED - _____

TAZEWELL COUNTY
COUNTY HIGHWAY 11
OVER TRIBUTARY TO DRY CREEK

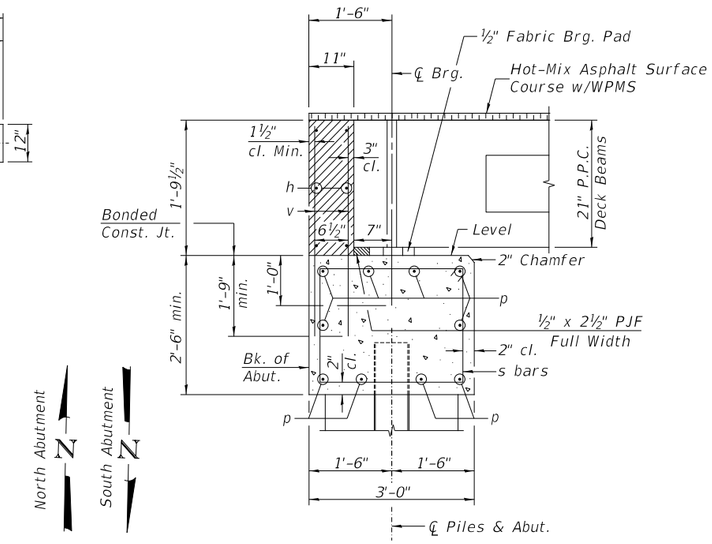
RAIL POST SPACING AND SUPERSTRUCTURE DETAILS

SCALE: NONE | SHEET 6 OF 8 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	15
	SN 090-3260			
	ILLINOIS			



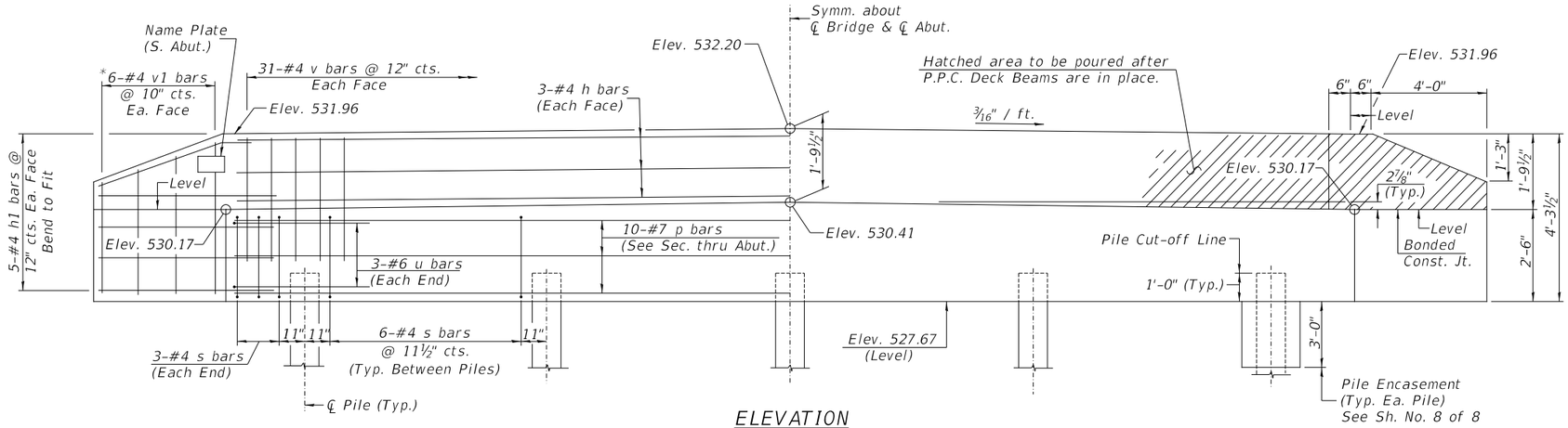
PLAN



North Abutment N

South Abutment N

SECTION THRU ABUT.



ELEVATION

(Front View of Abutment)

TWO ABUTMENTS BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h	12	#4	30'-9"	——
h1	40	#4	6'-6"	——
p	20	#7	30'-9"	——
s	60	#4	10'-5"	□
u	12	#6	11'-7"	⊏
v	124	#4	3'-6"	——
v1	24	#4	6'-9"	——

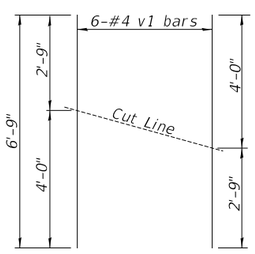
Structure Excavation	CU YD	60
Concrete Structures	CU YD	24.3
Concrete Encasement	CU YD	2.6
Reinforcement Bars	POUND	2,700
Furnishing Metal Shell Piles 12"x0.250"	FOOT	400
Driving Piles	FOOT	400
Test Pile Metal Shells	EACH	2
Name Plates	EACH	1

NOTES

1. The backwall and the portion of the wingwalls above the bonded construction joint shall be cast against the in-place beam.
2. All edges shall have standard ¾" chamfer.

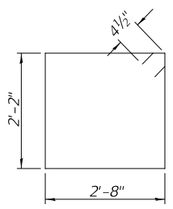
PILE DATA

Type & Size: Metal Shell 12" x 0.250" walls
Nominal Required Bearing: 273 kips
Factored Resistance Available: 150 kips
Est. Length: 50' S. Abut.
50' N. Abut.
No. Req'd.: 10 (Includes 1 Test Pile at Each Abut.)

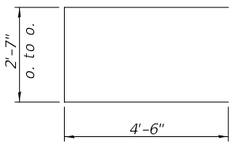


BAR CUTTING DIAGRAM

*Order v1 bars full length. Cut as shown and use remainder of bars in opposite face.



BAR s



BAR u

USER NAME = MOgden	DESIGNED - YP	REVISED - _____	TAZEWELL COUNTY COUNTY HIGHWAY 11 OVER TRIBUTARY TO DRY CREEK	ABUTMENTS
	DRAWN - YP	REVISED - _____		
PLOT SCALE = sSCALE$	CHECKED - MMO/BAN	REVISED - _____		SCALE: NONE SHEET 7 OF 8 SHEETS
PLOT DATE = 3/27/2025	DATE - 2/25/2025	REVISED - _____		

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	16
	SN 090-3260			
	ILLINOIS			

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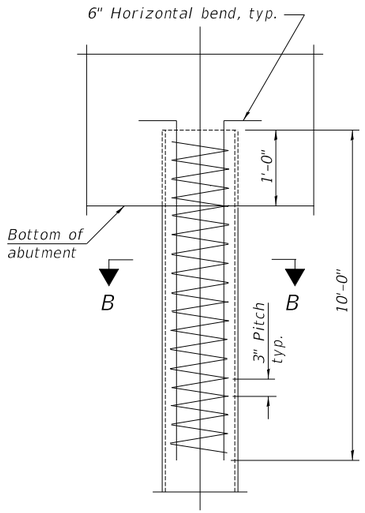
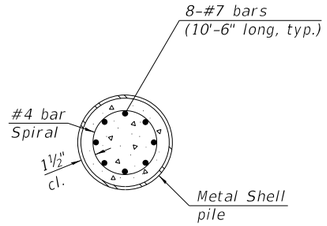


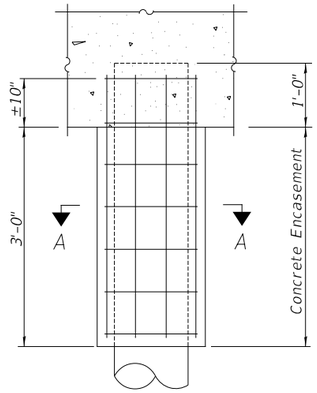
ELEVATION



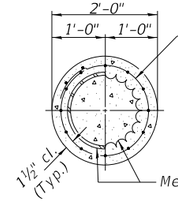
SECTION B-B

The cost of Reinforcement is included with Furnishing Metal Shell Piles 12"x0.250"

REINFORCEMENT AT ABUTMENTS



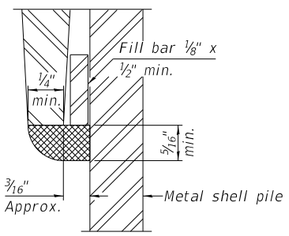
ELEVATION



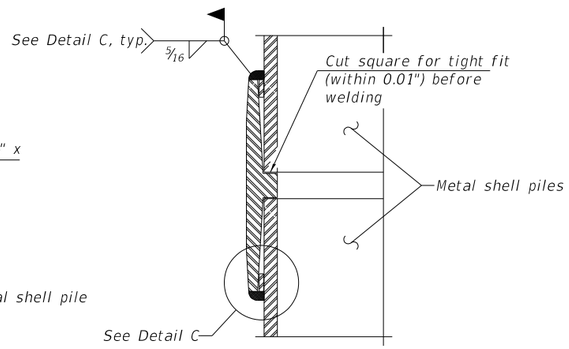
Welded wire fabric 6x6-W4.0xW4.0 weighing 58/100 sq. ft. The cost of Reinforcement and Excavation are included with Concrete Encasement. Forms for encasement may be omitted when soil conditions will permit.

SECTION A-A

DETAIL OF METAL SHELL PILE ENCASEMENT AT ABUTMENTS

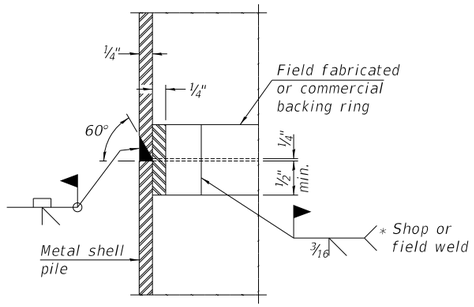


DETAIL C



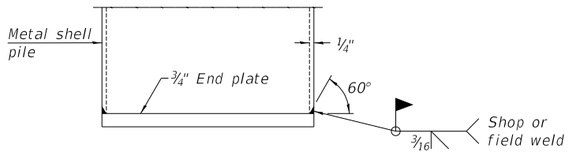
Notes:
The ⅛" x ½" min. fill bar may be constructed of 2 bars with a ⅛" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

WELDED COMMERCIAL SPLICE



COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



END PLATE ATTACHMENT

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

USER NAME = MOgden	DESIGNED - YP	REVISED - _____	**TAZEWELL COUNTY** **COUNTY HIGHWAY 11** **OVER TRIBUTARY TO DRY CREEK**
	DRAWN - YP	REVISED - _____	
PLOT SCALE = sSCALEs	CHECKED - MMO/BAN	REVISED - _____	
PLOT DATE = 3/27/2025	DATE - 2/25/2025	REVISED - _____	

METAL SHELL PILE DETAILS

SCALE: NONE | SHEET 8 OF 8 SHEETS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	17
	SN 090-3260			
	ILLINOIS			

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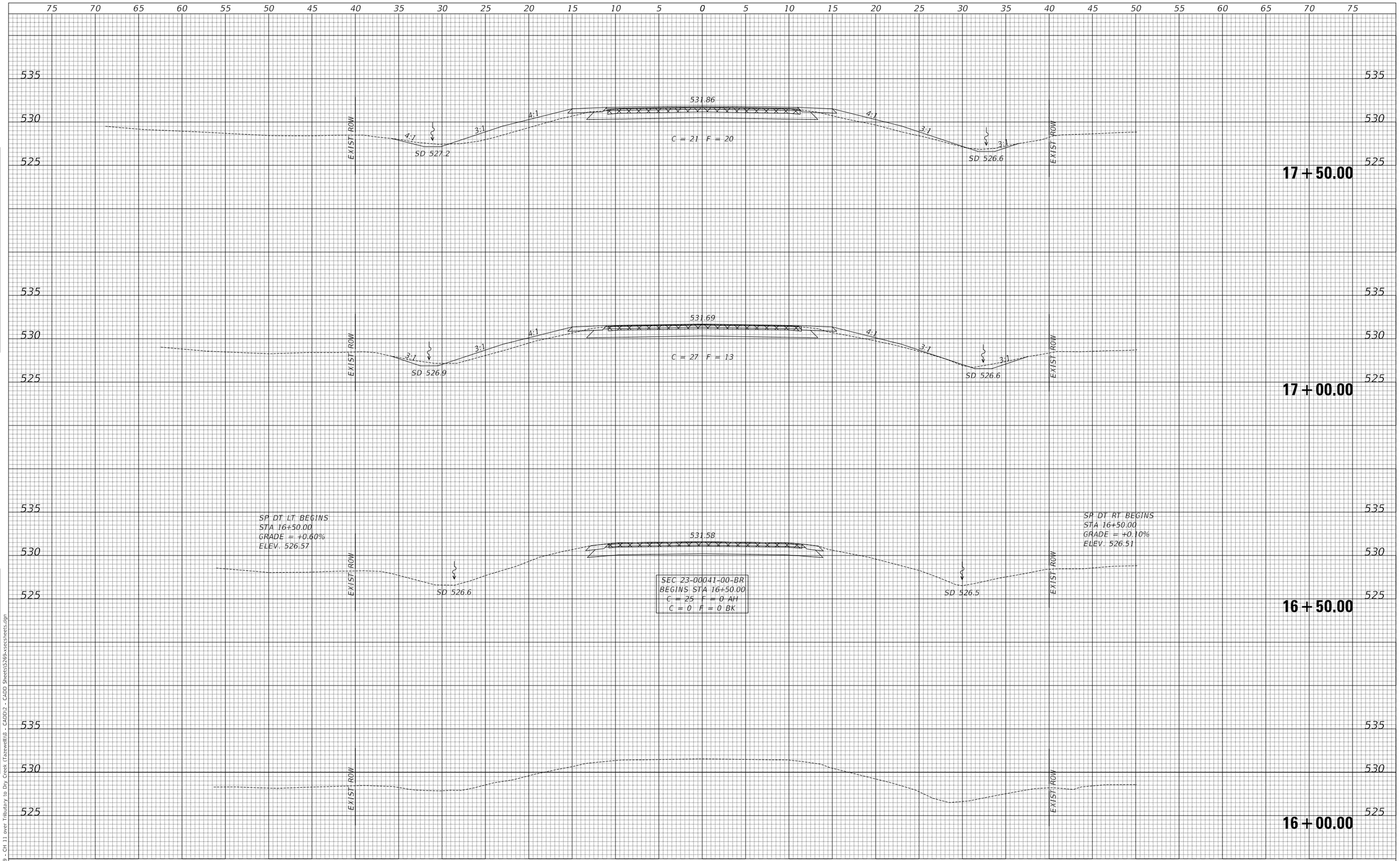


FINAL SURVEY | NOTE BOOK | NO.
SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED
BY | DATE

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

MODEL: Default
FILE NAME: V:\5269 - CH 11 over Tributary to Dry Creek (Tazewell)\8 - CADD\2 - CADD Sheets\5269-xsecsheets.dgn

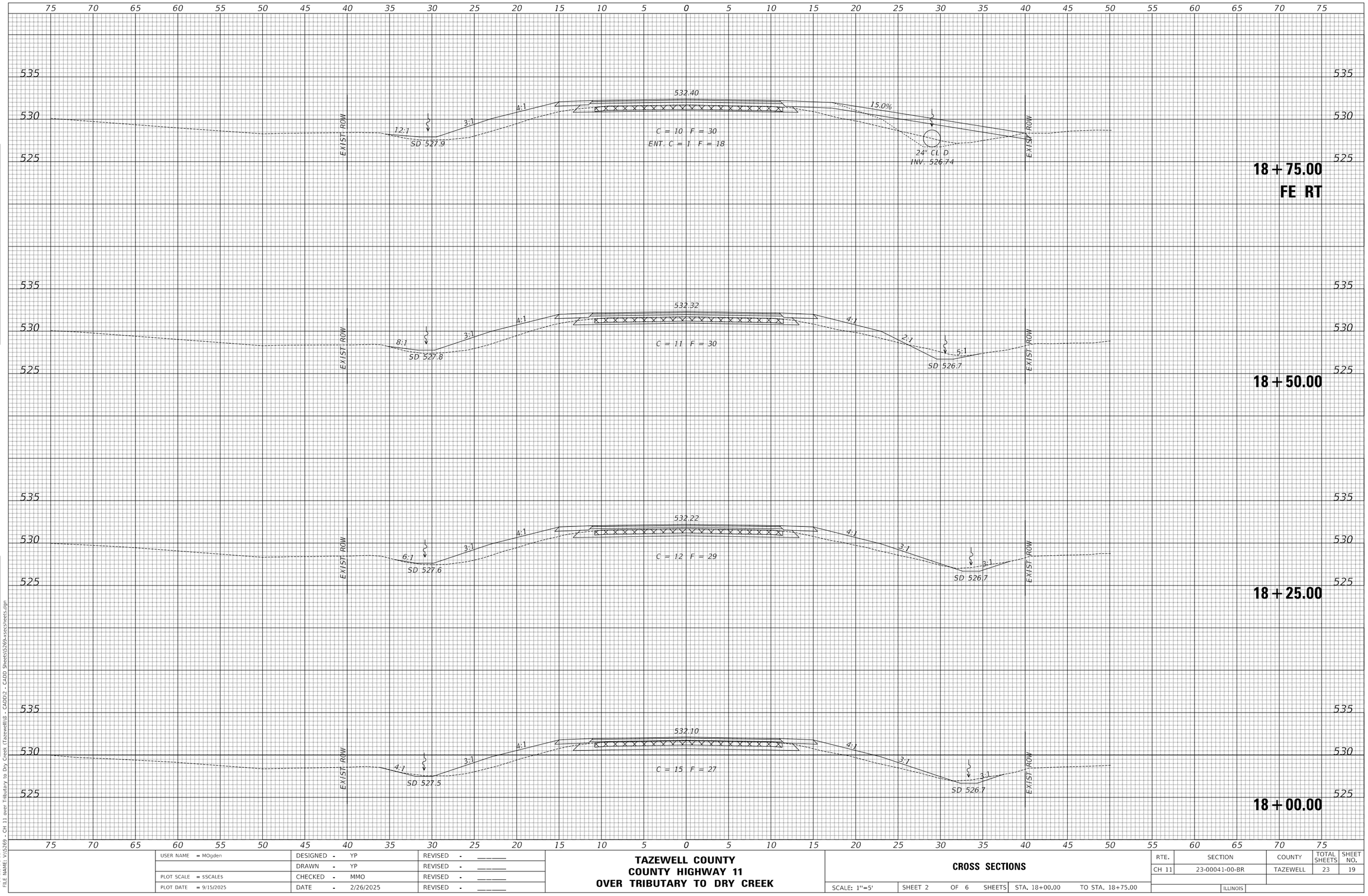
USER NAME = MOgden	DESIGNED - YP	REVISED -	
	DRAWN - YP	REVISED -	
PLOT SCALE = 5SCALE5	CHECKED - MMO	REVISED -	
PLOT DATE = 9/15/2025	DATE - 2/26/2025	REVISED -	

TAZEWELL COUNTY
COUNTY HIGHWAY 11
OVER TRIBUTARY TO DRY CREEK

CROSS SECTIONS

SCALE: 1"=5' | SHEET 1 OF 6 SHEETS | STA. 16+00.00 | TO STA. 17+50.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	18
		ILLINOIS		



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

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

MODEL: Default
FILE NAME: V:\5269 - CH 11 over Tributary to Dry Creek (Tazewell)\8 - CADD\2 - CADD Sheets\5269-xsecsheets.dgn

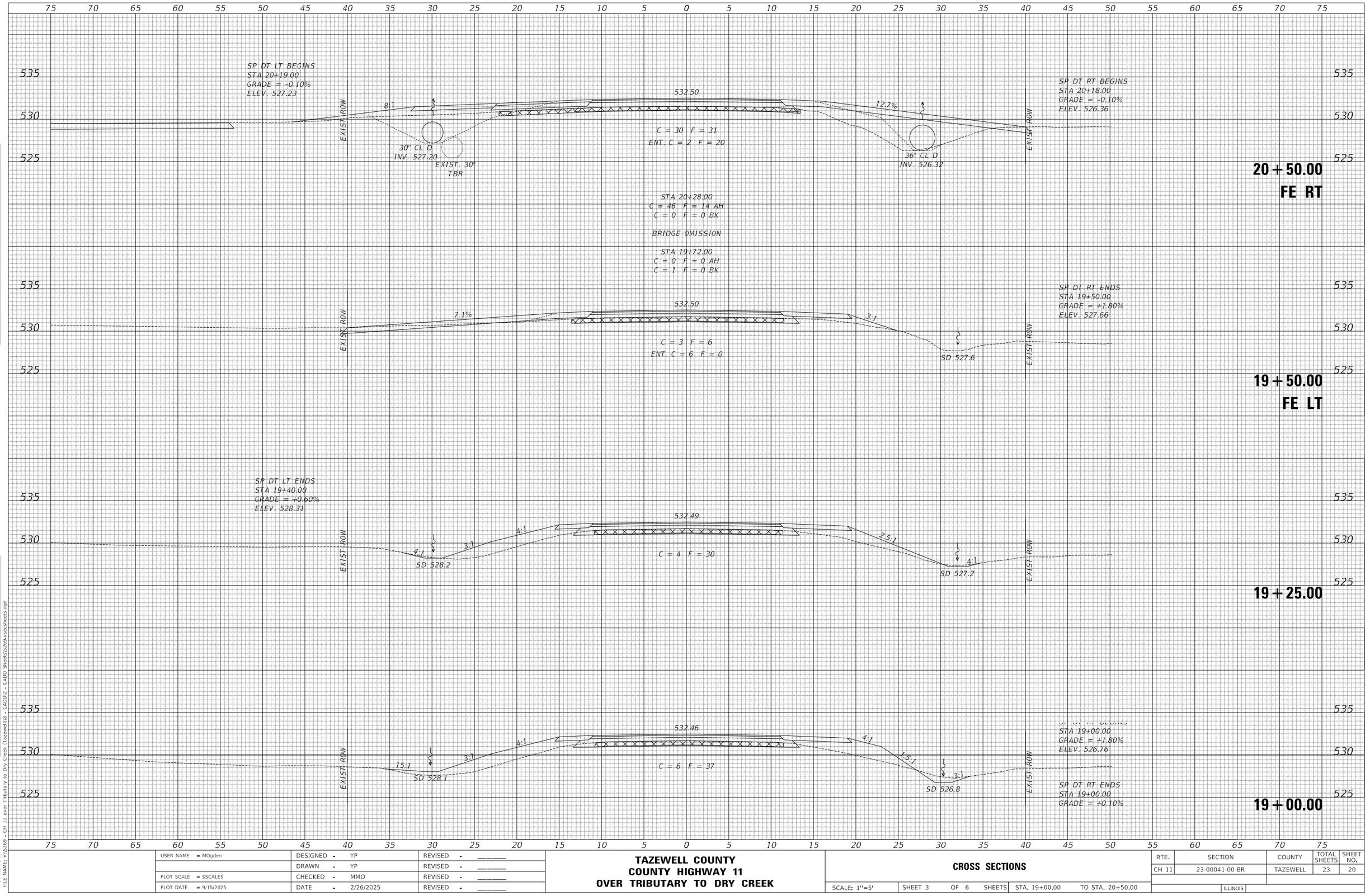
USER NAME = MOgden	DESIGNED - YP	REVISED - _____	
	DRAWN - YP	REVISED - _____	
PLOT SCALE = $SCALES	CHECKED - MMO	REVISED - _____	
PLOT DATE = 9/15/2025	DATE - 2/26/2025	REVISED - _____	

TAZEWELL COUNTY
COUNTY HIGHWAY 11
OVER TRIBUTARY TO DRY CREEK

CROSS SECTIONS

SCALE: 1"=5' | SHEET 2 OF 6 SHEETS | STA. 18+00.00 | TO STA. 18+75.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	19
		ILLINOIS		



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

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

MODEL: Default
FILE NAME: V:\5269 - CH 11 over Tributary to Dry Creek (Tazewell)\8 - CADD\2 - CADD Sheets\5269-xsecsheets.dgn

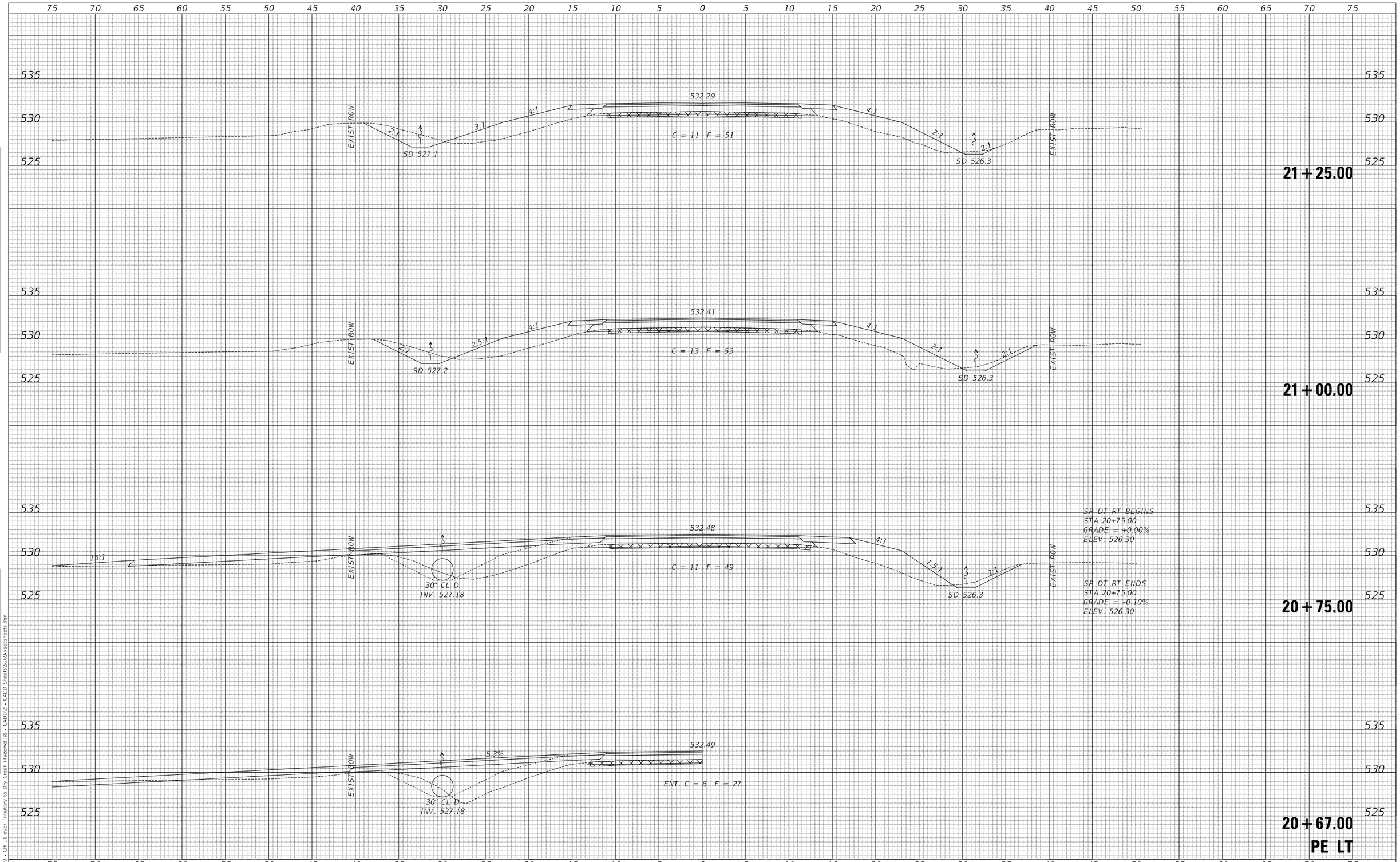
USER NAME = MOgden	DESIGNED - YP	REVISED -	
	DRAWN - YP	REVISED -	
PLOT SCALE = 5SCALES	CHECKED - MMO	REVISED -	
PLOT DATE = 9/15/2025	DATE - 2/26/2025	REVISED -	

TAZEWELL COUNTY
COUNTY HIGHWAY 11
OVER TRIBUTARY TO DRY CREEK

CROSS SECTIONS

SCALE: 1"=5' | SHEET 3 OF 6 SHEETS | STA. 19+00.00 TO STA. 20+50.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	20
		ILLINOIS		



USER NAME = MOgden	DESIGNED - YP	REVISED - _____	**TAZEWELL COUNTY** **COUNTY HIGHWAY 11** **OVER TRIBUTARY TO DRY CREEK**
	DRAWN - YP	REVISED - _____	
PLOT SCALE = 5SCALES	CHECKED - MMO	REVISED - _____	
PLOT DATE = 9/16/2025	DATE - 2/26/2025	REVISED - _____	

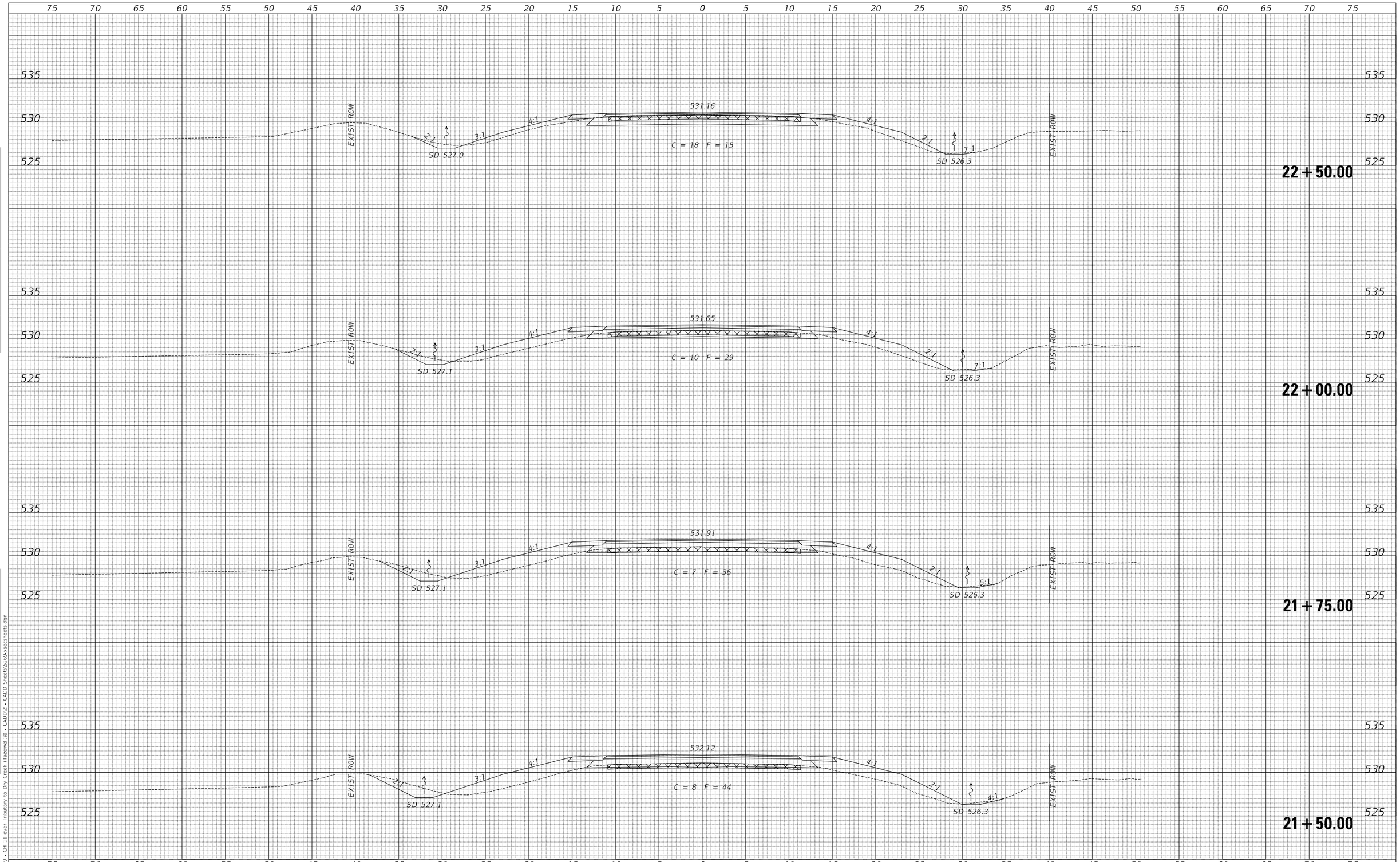
CROSS SECTIONS

SCALE: 1"=5' | SHEET 4 OF 6 SHEETS | STA. 20+67.00 | TO STA. 21+25.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	21
		ILLINOIS		

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

MODEL: Default
FILE NAME: V:\5269 - CH 11 over Tributary to Dry Creek (Tazewell)\8 - CADD\2 - CADD Sheets\5269-xsecsheets.dgn



USER NAME = MOgden	DESIGNED - YP	REVISED -	
	DRAWN - YP	REVISED -	
PLOT SCALE = $SCALES	CHECKED - MMO	REVISED -	
PLOT DATE = 9/15/2025	DATE - 2/26/2025	REVISED -	

TAZEWELL COUNTY
COUNTY HIGHWAY 11
OVER TRIBUTARY TO DRY CREEK

CROSS SECTIONS

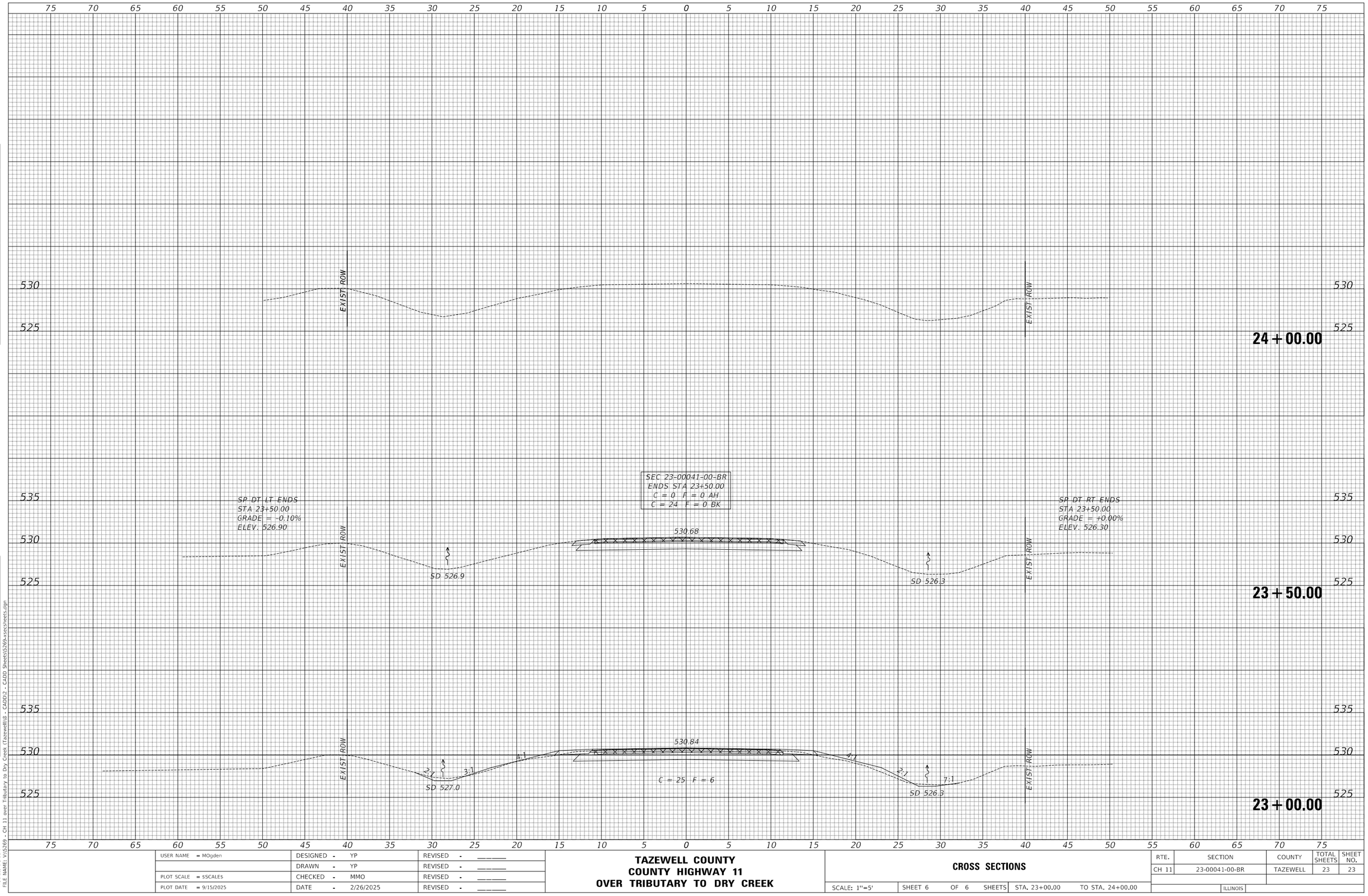
SCALE: 1"=5' | SHEET 5 OF 6 SHEETS | STA. 21+50.00 | TO STA. 22+50.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	22
		ILLINOIS		

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

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

MODEL: Default
FILE NAME: V:\5269 - CH 11 over Tributary to Dry Creek (Tazewell)\8 - CADD\2 - CADD Sheets\5269-xsecsheets.dgn



USER NAME = MOgden	DESIGNED - YP	REVISED - _____	
	DRAWN - YP	REVISED - _____	
PLOT SCALE = $SCALES	CHECKED - MMO	REVISED - _____	
PLOT DATE = 9/15/2025	DATE - 2/26/2025	REVISED - _____	

TAZEWELL COUNTY
COUNTY HIGHWAY 11
OVER TRIBUTARY TO DRY CREEK

CROSS SECTIONS

SCALE: 1"=5' | SHEET 6 OF 6 SHEETS | STA. 23+00.00 TO STA. 24+00.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 11	23-00041-00-BR	TAZEWELL	23	23
		ILLINOIS		

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

MODEL: Default
FILE NAME: V:\5269 - CH 11 over Tributary to Dry Creek (Tazewell)\8 - CADD\2 - CADD Sheets\5269-xsecsheets.dgn