

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	1
		ILLINOIS	CONTRACT NO. 64P06	

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

TOWNSHIP: ROCKFORD
SECTION: 5 & 8

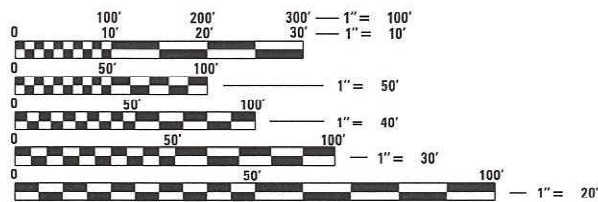
CLASSIFICATION: OTHER PRINCIPAL ARTERIAL
ADT (2024): 9,150
TRUCK PERCENTAGE: 4.9%
P.V. = 8,700
S.U. = 270
M.U. = 180
DESIGN SPEED: 60 MPH
POSTED SPEED: 55 MPH



Matthew J. Willey
DATE 8/6/2024
MATTHEW J. WILLEY
ILLINOIS REGISTERED STRUCTURAL ENGINEER NO. 081-006588
MY LICENSE EXPIRES ON 11-30-2025
APPLIES TO SHEETS: 21-61



John P. O'Neill
DATE 8/6/2024
JOHN P. O'NEILL
ILLINOIS REGISTERED PROFESSIONAL ENGINEER NO. 062-048834
MY LICENSE EXPIRES ON 11-30-2025
APPLIES TO SHEETS: 1-20, 62-91



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

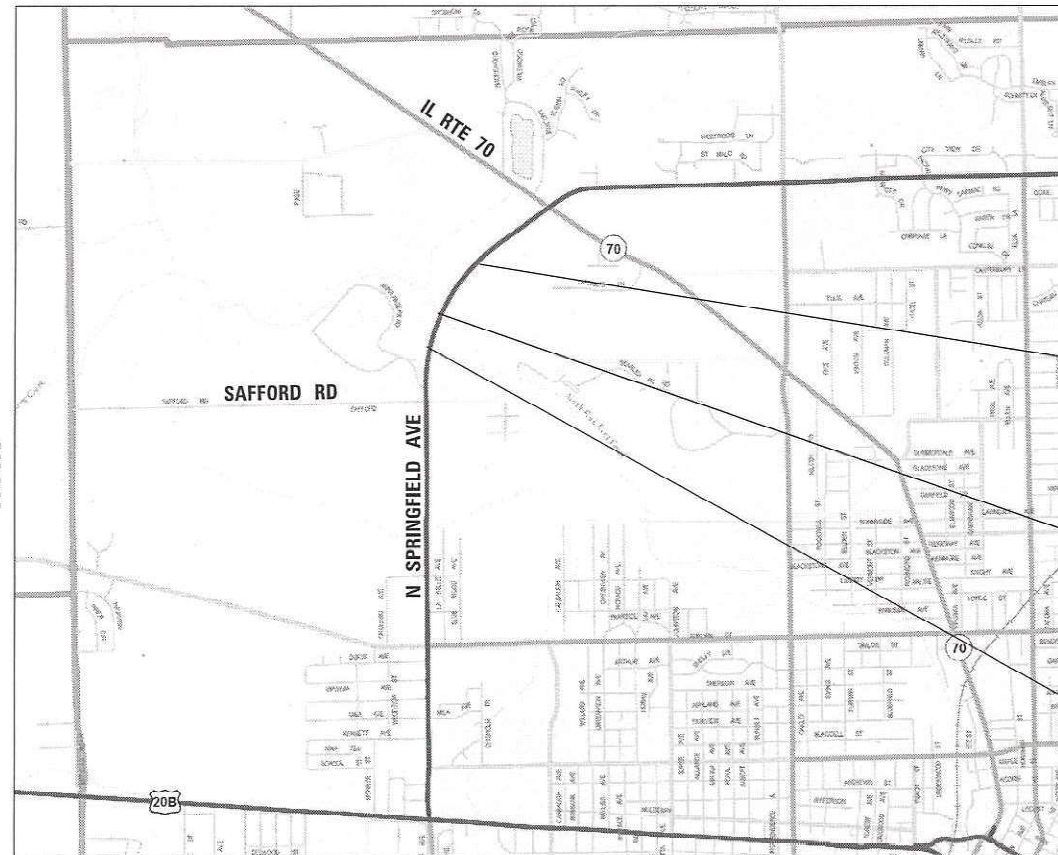
PROJECT ENGINEER: STEVE ROBERY
PROJECT MANAGER: COREY CONDERMAN (815) 284-5936

CONTRACT NO. 64P06

PROPOSED
HIGHWAY PLANS

FAP ROUTE 525 (SPRINGFIELD AVE)
OVER NORTH FORK KENT CREEK
SECTION 111BR
PROJECT NHPP-9287(977)
BRIDGE REPLACEMENT
WINNEBAGO COUNTY

C-92-104-23



PROJECT BEGINS
STA 173+51.0

EX. SN 101-0100
PR. SN 101-0229
3-SPAN BRIDGE
124'-8" BK. TO BK. OF ABUT.
OVER N FORK KENT CREEK
PR. CL STA 186+38.5

PROJECT ENDS
STA 193+62.0

GROSS LENGTH = 2011.0 FT. = 0.381 MILE
NET LENGTH = 2011.0 FT. = 0.381 MILE

D-92-009-20



LOCATION OF SECTION INDICATED THUS: - [shaded box] -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED August 16 2024
Risha Thompson
REGIONAL ENGINEER
October 4, 2024
Scott A. Etkin
ENGINEER OF DESIGN AND ENVIRONMENT
October 4, 2024
James J. Quinn
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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HIGHWAY STANDARDS

STD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
515001-04	NAME PLATE FOR BRIDGES
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
630001-13	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-02	DELINEATORS
701001-02	OFF-RD OPERATIONS, 2L 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L 2W MOVING OPERATIONS - DAY ONLY
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-09	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS, & DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS
780001-05	TYPICAL PAVEMENT MARKINGS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS & HIGHWAY STANDARDS
SPRINGFIELD AVENUE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	2
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY TRAFFIC OPERATIONS A MINIMUM OF 5 WORKING DAYS PRIOR TO PLACING PERMANENT PAVEMENT MARKING OR SIGNING.
2. THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 4 OR 2A SHALL BE USED, EXCEPT IN FRONT OF PROPERTIES WHERE THE GRASS WILL BE MOWED, THEN USE SEEDING CLASS 1A. CLASS 2A SHALL BE USED ON FRONT SLOPES AND DITCH BOTTOMS, CLASS 4 SHALL BE USED BEHIND TYPE A GUTTER, ON ALL BACKSLOPES AND AREAS BEHIND THE BACKSLOPE, AND BEYOND THE TOE OF FRONT SLOPE ON FILL SECTIONS WITHOUT DITCHES.
3. FERTILIZER NUTRIENTS SHALL BE APPLIED AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS SHALL BE INCLUDED IN THE COST OF THE SEEDING OR SODDING.
4. THE CONTRACTOR WILL BE REQUIRED TO FURNISH 5 1/2" HIGH BRASS STENCILS AS APPROVED BY THE ENGINEER AND INSTALL STATIONING AT 250' INTERVALS. STATIONING SHALL BE PLACED ON BOTH LANES OF 2-LANE HIGHWAYS AND ON THE OUTSIDE LANES IN BOTH DIRECTIONS ON 4-LANE HIGHWAYS. THE STATIONS SHALL BE PLACED 6" INSIDE THE PAVEMENT MARKING EDGE SO THEY CAN BE READ FROM THE SHOULDER. THIS WORK WILL BE INCLUDED IN THE COST OF THE FINAL PAVEMENT SURFACE.
5. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION AND MIXTURE USE(S):	FULL DEPTH PAVEMENT		SHOULDERS	
	SURFACE	BINDER	SURFACE	LOWER LIFTS
PG:	SBS PG 64-28	PG 58-28	PG 58-28	PG 58-28
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION:	IL 9.5	IL 19.0	IL 9.5	IL 19.0
FRICTION AGGREGATE:	D	N/A	C	N/A
MIXTURE WEIGHT:	112 LB/SY/IN	112 LB/SY/IN	112 LB/SY/IN	112 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A	N/A	N/A
MATERIAL TRANSFER DEVICE:	NO	NO	NO	NO

6. THE AREA TO BE TACKED OR PRIMED SHALL BE LIMITED TO THAT WHICH CAN BE COVERED WITH HMA ON THE NEXT DAY'S PRODUCTION, BUT NO MORE THAN FIVE DAYS IN ADVANCE OF THE PLACEMENT OF THE HMA, UNLESS APPROVED BY THE ENGINEER.
7. THE NEW NUMBER FOR THIS STRUCTURE WILL BE 101-0229.
8. CULVERT AND BRIDGE FLOWS MUST BE MAINTAINED THROUGHOUT THE PROJECT. NORMAL FLOW SHALL BE ALLOWED TO PASS AT THE RATE IT ENTERS THE JOBSITE. HIGH FLOWS SHALL BE ALLOWED TO PASS WITHOUT CAUSING DAMAGE TO UPSTREAM PROPERTIES.
9. THE CONTRACTOR SHALL SUPPLY THE RESIDENT ENGINEER WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS FOR THE TYPE OF STEEL PLATE BEAM GUARDRAIL TERMINAL TYPE 1 (SPECIAL) TANGENT OR STEEL PLATE BEAM GUARDRAIL TERMINAL TYPE 1 (SPECIAL) FLARED.
10. DELINEATORS SHALL BE INSTALLED AS SHOWN IN STANDARD 635001, EXCEPT THAT THE POST SHALL BE ROTATED 180° AND ONLY METAL-BACKED DELINEATORS SHALL BE PERMITTED. DELINEATORS SHALL BE PLACED AT THE ENDS OF APPROACH GUARDRAIL TERMINAL SECTIONS, AND AT EACH HEADWALL OR END SECTION OF AR CULVERTS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR DELINEATORS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTING AND MAINTAINING AN ELECTRONIC LOG OF ALL STAKEOUT SURVEY THAT IS PERFORMED ON THE JOB, EITHER BY HIM/HER OR ANY SUBCONTRACTOR PERFORMING THE STAKEOUT. UPON REQUEST, ALL LOGS SHALL BE SUBMITTED TO THE DEPARTMENT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK, BUT SHALL BE CONSIDERED INCLUDED IN THE COST FOR CONSTRUCTION LAYOUT.
12. PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:
 1. ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
 2. ALL NON-FREEWAY ARROWS SHALL BE LARGE SIZE.
 3. THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8 INCHES, NOT 7 INCHES, AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.
 4. CENTERLINE SKIP-DASH PAVEMENT MARKING ON MULTILANE DIVIDED, MULTILANE UNDIVIDED, AND ONE-WAY ROADWAY SHALL BE ACCORDING TO DISTRICT STANDARD 41.1.
13. PERMANENT SURVEY MARKERS, TYPE II, SHALL BE SET AT INTERVALS OF 1 MILE OR AS DIRECTED BY THE ENGINEER. BRIDGE OR CULVERT PROJECTS SHALL HAVE ONE SURVEY MARKER PLACED NEAR THE STRUCTURE. ESTIMATED: 1 EACH.
14. PERMANENT SURVEY MARKERS, TYPE II, SHALL BE CAST-IN-PLACE AS SHOWN ON DISTRICT STANDARD 66.2. ANOTHER OPTION WOULD BE TO INSTALL A VAULTED STYLE MONUMENT AS DESCRIBED BY NGS AS A 3D MONUMENT (TOP SECURITY SLEEVE ROD MONUMENT), WITH INSTALLATION INSTRUCTIONS PROVIDED BY THE DISTRICT CHIEF OF SURVEYS, IF POURED IN PLACE, THE BOTTOM OF THE MARKER SHALL BE 5'-0" BELOW THE GROUND SURFACE.
15. THE PERMANENT SURVEY MARKERS, IF POSSIBLE, SHALL BE INSTALLED AT THE BEGINNING OF THE JOB AND PROTECTED THROUGHOUT.

16. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A DESCRIPTION OF LOCATION, ELEVATION, AND COORDINATES FOR EACH PERMANENT SURVEY MARKER. THE HORIZONTAL COORDINATES MUST BE DERIVED BY GPS AND THE ELEVATION DERIVED USING AN ELECTRONIC LEVEL. THE METADATA, SUCH AS THE GEO-ID USED (NGS ADJUSTMENT IE: 97 HARN, 03, 07) AND THE BASE POINT(S) NAME OR NUMBER SHALL BE SUBMITTED ALONG WITH A COMPLETE COLLECTION LOG. IF COLLECTED USING RTK METHOD, IT WILL REQUIRE EITHER 3 COLLECTIONS (AVERAGED) FROM 2 DIFFERENT BASES, OR A MINIMUM OF 3 COLLECTIONS (AVERAGED), AT LEAST 2 HOURS APART, FROM THE SAME BASE. IF USING A CORS TYPE NETWORK, THE COLLECTION PROCEDURE SHALL INCLUDE LOCALIZING WITH CHECK SHOTS ON AT LEAST 2 DIFFERENT HARN MONUMENTS BOTH BEFORE AND AFTER COLLECTION. THE LEVEL CIRCUIT SHALL BE RUN FROM FURNISHED MARK TO FURNISHED MARK AND THEN ADJUSTED. THE ERROR OF CLOSURE SHALL BE SUBMITTED WITH THE ELECTRONIC LEVEL NOTES IN A RECOGNIZED FORMAT APPROVED BY THE ENGINEER AND/OR THE CHIEF OF SURVEYS. THE ENGINEER SHALL SUBMIT THIS INFORMATION TO THE DISTRICT CHIEF OF SURVEYS.
17. THE FOLLOWING LISTED UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS ARE MEMBERS OF JULIE:

1. NICOR GAS CO.	(630) 388-3019
2. FOUR RIVERS SANITATION AUTHORITY	(815) 387-7656
3. WISCONSIN INDEPENDENT NETWORK	(715) 838-4012
4. AT&T	(630) 573-5465
5. COMMONWEALTH EDISON COMPANY	(779) 231-1027

IDOT IS NOT A MEMBER OF JULIE. IF YOU ARE NEAR ANY OVERHEAD LIGHTING, INTERSECTION LIGHTING OR TRAFFIC SIGNALS, CONTACT THE IDOT TRAFFIC OFFICE AT 815/284-5469 AT LEAST 48 HOURS PRIOR TO WORK.
18. IDOT MAINTAINS THE TRAFFIC SIGNALS AT IL-70 & SPRINGFIELD RD.
19. FOR EXISTING PAVEMENT REMOVAL, ALL HMA AND AGGREGATE BASE THAT CONFLICTS WITH THE PROPOSED WORK SHALL BE REMOVED, AGGREGATE BASE THAT DOES NOT CONFLICT WITH THE PROPOSED WORK MAY REMAIN IN PLACE. THE FULL PLAN THICKNESS OF NEW AGGREGATE BASE SHALL BE CONSTRUCTED EVEN IF THERE IS EXISTING AGGREGATE PRESENT.

COMMITMENTS CONT.

1. CONSERVATION MEASURES FOR THE NORTHERN LONG EARED BAT (NLEB), INDIANA BAT (IBAT), AND THE RUSTY PATCH BUMBLE BEE (RPBB): TREES THREE (3) INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT SHALL BE CLEARED ONLY FROM AUGUST 1 TO OCTOBER 15 OF ANY GIVEN YEAR. THE US FISH AND WILDLIFE SERVICE CONCURRED WITH OUR DETERMINATION AND DATE RESTRICTION ON TREE CLEARING AND PROVIDED THE CONSERVATION MEASURES BELOW FROM COORDINATION DATE 5/30/2023 AND THEY MUST BE IMPLEMENTED

TO AVOID ADVERSELY AFFECTING THE NLEB, IBAT, AND RPBB, IDOT WILL COMMIT TO THE FOLLOWING MEASURES:

FORESTED AREAS WILL BE CLEARED BETWEEN AUGUST 1 AND OCTOBER 15 OF ANY CONSTRUCTION YEAR TO AVOID CLEARING DURING THE RPBB AND BAT ACTIVE SEASONS.

HERBACEOUS AREAS OF MEDIUM QUALITY HABITAT WITHIN THE PROJECT CONSTRUCTION LIMITS WILL BE MOWED (6-9 INCHES) AS NEEDED FROM MARCH 15 TO OCTOBER 14 THE YEAR OF CONSTRUCTION TO KEEP FLORAL RESOURCES FROM BLOOMING.

NO PARKING OR CONSTRUCTION STAGING SHALL OCCUR ALONG THE PROJECT LIMITS WITHIN ANY MEDIUM QUALITY HABITAT ZONES.

ANY DISTURBED GROUND SHALL BE RESEEDED WITH NATIVE PRAIRIE MIXES SUCH AS IDOT CLASS 4 OR 5, AS APPROPRIATE.
2. IDNR ALSO OFFERS THE FOLLOWING CONSERVATION MEASURES BE CONSIDERED TO HELP PROTECT NATIVE WILDLIFE AND ENHANCE NATURAL AREAS IN THE PROJECT AREA:

IF TEMPORARY OR PERMANENT LIGHTING IS REQUIRED, THE DEPARTMENT RECOMMENDS THE FOLLOWING LIGHTING RECOMMENDATION TO MINIMIZE ADVERSE EFFECTS TO WILDLIFE:

ALL LIGHTING SHOULD BE FULLY SHIELDED FIXTURES THAT EMIT NO LIGHT UPWARD.

ONLY "WARM-WHITE" OR FILTERED LEDES (CCT < 3,000 K; S/P RATIO < 1.2) SHOULD BE USED TO MINIMIZE BLUE EMISSION.

ONLY LIGHT THE EXACT SPACE WITH THE AMOUNT (LUMENS) NEEDED TO MEET FACILITY SAFETY REQUIREMENT.

IF LEDES ARE TO BE USED, AVOID THE TEMPTATION TO OVER-LIGHT BASED ON THE HIGHER LUMINOUS EFFICIENCY OF LEDES.

IF EROSION CONTROL BLANKET IS TO BE USED, THE DEPARTMENT ALSO RECOMMENDS THAT WILDLIFE-FRIENDLY PLASTICFREE BLANKET BE USED AROUND WETLANDS AND ADJACENT TO NATURAL AREAS, IF NOT FEASIBLE TO IMPLEMENT PROJECT WIDE, TO PREVENT THE ENTANGLEMENT OF NATIVE WILDLIFE.
3. IN REGARD TO ANNA PAGE PARK MULTI-USE PATH - ROCKFORD PARK DISTRICT

DURATION WILL BE TEMPORARY, ESTIMATED 20 CALENDAR DAYS FOR DEMOLITION OF THE STRUCTURE AND TWO CALENDAR DAYS FOR SETTING OF THE BEAMS ON THE NEW STRUCTURE, I.E., LESS THAN THE TIME NEEDED FOR CONSTRUCTION OF THE PROJECT, AND THERE SHOULD BE NO CHANGE IN OWNERSHIP OF THE LAND.

THE MULTI-USE PATH UNDER SPRINGFIELD AVENUE SHALL REMAIN OPEN DURING THE MONTH OF OCTOBER.

THE ROCKFORD PARK DISTRICT STAFF SHALL BE UPDATED ON THE CONSTRUCTION SCHEDULE AND PATH CLOSURE.

DURING CONSTRUCTION ACCESS SHALL BE PROVIDED TO ROCKFORD PARK DISTRICT STAFF TO GET EQUIPMENT FROM ONE SIDE OF SPRINGFIELD AVENUE TO THE OTHER SIDE.

CONTACT NAMES THAT THE CONTRACTOR SHALL KEEP IN COMMUNICATION WITH REGARDING THE PROJECT FROM THE START OF THE PROJECT AND CONTINUE THROUGHOUT THE DURATION OF THE PROJECT:

RAY MASON
SUPERVISOR NORTHWEST ZONE
ROCKFORD PARK DISTRICT
CELL: (608) 931-0225

MARC PACKARD
MAINTENANCE/PARK SUPERVISOR
LOCKWOOD PARK
CELL: (815) 289-9763

MODEL Path: H:\191176 IDOT Springfield Ave Phase II\CADD Sheets\2026\106_SUT_General Notes.dgn



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PLOT DATE = 7/22/2024	DATE - 7/26/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES & COMMITMENTS
SPRINGFIELD AVENUE**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	3
			CONTRACT NO. 64P06	
		ILLINOIS	FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				URBAN	
				80% FED 20% STATE	80% FED 20% STATE
				ROADWAY 0004	BRIDGE 0010
					S.N. 101-0229
20200100	EARTH EXCAVATION	CU YD	3298	3298	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	114	114	
20300100	CHANNEL EXCAVATION	CU YD	1045	1045	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	439	439	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	575	575	
25000210	SEEDING, CLASS 2A	ACRE	1	1	
# 25000750	MOWING	ACRE	1	1	
25100630	EROSION CONTROL BLANKET	SQ YD	4553	4553	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	300	300	
28000400	PERIMETER EROSION BARRIER	FOOT	3816	3816	
28100107	STONE RIPRAP, CLASS A4	SQ YD	17	17	
28100109	STONE RIPRAP, CLASS A5	SQ YD	1671		1671
28200200	FILTER FABRIC	SQ YD	1843	17	1826
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	50	50	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	7100	7100	

* SPECIALTY ITEM
 # NON-PARTICIPATING 100% STATE



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES SPRINGFIELD AVENUE			
SCALE: N.T.S.	SHEET 1	OF 6 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	4
				CONTRACT NO. 64P06
				ILLINOIS FED. AID PROJECT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				URBAN	
				80% FED 20% STATE	80% FED 20% STATE
				ROADWAY 0004	BRIDGE 0010
					S.N. 101-0229
30300118	AGGREGATE SUBGRADE IMPROVEMENT 18"	SQ YD	1433	1433	
30300124	AGGREGATE SUBGRADE IMPROVEMENT 24"	SQ YD	478	478	
40200900	AGGREGATE SURFACE COURSE, TYPE B	CU YD	67	67	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2027	2027	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	6028	6028	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	1828	1828	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	2425	2425	
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	787	787	
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	539	539	
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	139	139	
44000100	PAVEMENT REMOVAL	SQ YD	5058	5058	
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	1413	1413	
44004250	PAVED SHOULDER REMOVAL	SQ YD	3311	3311	
44200934	CLASS B PATCHES, TYPE II, 8 INCH	SQ YD	1172	1172	
44200942	CLASS B PATCHES, TYPE III, 8 INCH	SQ YD	1172	1172	

* SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
SPRINGFIELD AVENUE**

SCALE: N.T.S. SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	5
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				URBAN	
				80% FED 20% STATE	80% FED 20% STATE
				ROADWAY 0004	BRIDGE 0010 S.N. 101-0229
44200944	CLASS B PATCHES, TYPE IV, 8 INCH	SQ YD	1172	1172	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	229	229	
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	3227	3227	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	289		289
50200300	COFFERDAM EXCAVATION	CU YD	410		410
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1		1
50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1		1
50300225	CONCRETE STRUCTURES	CU YD	256.5		256.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	214		214
50300260	BRIDGE DECK GROOVING	SQ YD	784		784
50300265	SEAL COAT CONCRETE	CU YD	151.8		151.8
50300300	PROTECTIVE COAT	SQ YD	950		950
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	118.4		118.4
50401305	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BEAMS, IL27N	FOOT	720		720

* SPECIALTY ITEM

MODEL Path: \\01176 IDOT Springfield Ave Phase IICADD Sheets\061006_SHT_500.dwg
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	DATE - 7/26/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
SPRINGFIELD AVENUE**

SCALE: N.T.S. SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	6
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				URBAN	
				80% FED 20% STATE	80% FED 20% STATE
				ROADWAY 0004	BRIDGE 0010
					S.N. 101-0229
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	116960		116960
51201610	FURNISHING STEEL PILES HP12X63	FOOT	510		510
51201900	FURNISHING STEEL PILES HP14X89	FOOT	555		555
51202305	DRIVING PILES	FOOT	1065		1065
51203610	TEST PILE STEEL HP12X63	EACH	2		2
51203900	TEST PILE STEEL HP14X89	EACH	2		2
51204650	PILE SHOES	EACH	24		24
51500100	NAME PLATES	EACH	1		1
52200015	PERMANENT SHEET PILING	SQ FT	1645		1645
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	136		136
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	84		84
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	5	5	
60100080	FRENCH DRAINS	CU YD	9	9	
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	1845	1845	
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	139		139

* SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
SPRINGFIELD AVENUE**

SCALE: N.T.S. SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	7
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				URBAN	
				80% FED 20% STATE	80% FED 20% STATE
				ROADWAY 0004	BRIDGE 0010
					S.N. 101-0229
60146305	PIPE UNDERDRAINS FOR STRUCTURES (SPECIAL) 4"	FOOT	40		40
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	112.5	112.5	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2	
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	2	2	
63200310	GUARDRAIL REMOVAL	FOOT	260	260	
63500105	DELINEATORS	EACH	9	9	
* 66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	1	1	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	16	16	
67100100	MOBILIZATION	L SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	45	45	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	740	740	
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	2221	2221	
* 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2	

* SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
SPRINGFIELD AVENUE**

SCALE: N.T.S. SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	8
			CONTRACT NO. 64P06	
ILLINOIS FED. AID PROJECT				

21101615	TOPSOIL FURNISH AND PLACE, 4" LOCATION STA 173+51 TO BRIDGE BRIDGE TO STA 193+62	SQ YD 350 225 575	COMMENTS
25000210	SEEDING, CLASS 2A LOCATION STA 173+51 TO BRIDGE BRIDGE TO STA 193+62	ACRE 0.6 0.4 1.0	COMMENTS ROUNDED TO NEAREST 0.25
25000750	MOWING LOCATION STA 173+51 TO BRIDGE BRIDGE TO STA 193+62	ACRE 0.6 0.4 1.0	COMMENTS
25100630	EROSION CONTROL BLANKET LOCATION STA 173+51 TO BRIDGE BRIDGE TO STA 193+62	SQ YD 2831 1722 4553	COMMENTS SEE EC PLANS SEE EC PLANS
28000250	TEMPORARY EROSION CONTROL SEEDING LOCATION STA 173+51 TO BRIDGE BRIDGE TO STA 193+62	POUND 185 115 300	COMMENTS
28000400	PERIMETER EROSION BARRIER LOCATION STA 173+51 TO BRIDGE BRIDGE TO STA 193+62	FOOT 2465 1351 3816	COMMENTS SEE EC PLANS SEE EC PLANS
28100107	STONE RIPRAP, CLASS A4 LOCATION STA 185+47 LT	SQ YD 17 17	COMMENTS SEE EC PLANS
28200200	FILTER FABRIC LOCATION STA 185+47 LT SEE BRIDGE PLANS	SQ YD 17 1826 1843	COMMENTS SEE EC PLANS SEE BRIDGE PLANS
30300001	AGGREGATE SUBGRADE IMPROVEMENT LOCATION STA 173+51 TO 176+00 STA 180+00 TO BRIDGE	SQ YD 25 25 50	COMMENTS NOM QTY NOM QTY
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12" LOCATION STA 173+51 TO 176+00 STA 180+00 TO BRIDGE BRIDGE TO STA 193+62	SQ YD 1190 2752 3158 7100	COMMENTS
30300118	AGGREGATE SUBGRADE IMPROVEMENT 18" LOCATION STA 177+00 TO 180+00	CU YD 1433 1433	COMMENTS
30300124	AGGREGATE SUBGRADE IMPROVEMENT 24" LOCATION STA 176+00 TO 177+00	SQ YD 478 478	COMMENTS

40200900	AGGREGATE SURFACE COURSE, TYPE B LOCATION STA 186+00 TO 187+00	CU YD 67 67	COMMENTS RECREATIONAL TRAIL BELOW BRIDGE
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB LOCATION STA 173+51 TO BRIDGE BRIDGE TO STA 193+62	SQ YD 69.5 69.5 139	COMMENTS
44000100	PAVEMENT REMOVAL LOCATION STA 173+51 TO BRIDGE BRIDGE TO STA 193+62	SQ YD 3277 1781 5058	COMMENTS
44004250	PAVED SHOULDER REMOVAL LOCATION STA 173+51 TO BRIDGE BRIDGE TO STA 193+62	SQ YD 2177 1134 3311	COMMENTS
48101500	AGGREGATE SHOULDERS, TYPE B, 6" LOCATION STA 173+51 TO BRIDGE BRIDGE TO STA 193+62	SQ YD 112 117 229	COMMENTS
6010060	CONCRETE HEADWALLS FOR PIPE DRAINS LOCATION STA 177+53 LT STA 181.53 LT STA 183+96 LT STA 188+53 LT STA 191+03 LT	EACH 1 1 1 1 1 5	COMMENTS
60100080	FRENCH DRAINS LOCATION TBD BY ENGINEER	CU YD 9 9	COMMENTS AS NEEDED AND DETERMINED BY THE RESIDENT
60108204	PIPE UNDERDRAINS, TYPE 2, 4" LOCATION STA 173+51 TO BRIDGE BRIDGE TO STA 193+62	FOOT 1191 654 1845	COMMENTS
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS LOCATION STA 185+01 TO 185+38 RT STA 185+24 TO 185+37 LT STA 187+39 TO 187+52 RT STA 187+40 TO 187+91 LT	FOOT 37.5 12.5 12.5 50.0 112.5	COMMENTS
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6 LOCATION STA 185+37 TO 185+77 RT STA 185+37 TO 185+77 LT STA 187+00 TO 187+40 RT STA 187+00 TO 187+40 LT	EACH 1 1 1 1 4	COMMENTS
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT LOCATION STA 184+74 TO 185+24 LT STA 187+52 TO 188+02 RT	EACH 1 1 2	COMMENTS

63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED LOCATION STA 184+51 TO 185+01 RT STA 187+91 TO 188+41 LT	EACH 1 1 2	COMMENTS
63200310	GUARDRAIL REMOVAL LOCATION STA 185+18 TO 185+83 RT STA 185+18 TO 185+83 LT STA 186+94 TO 187+59 RT STA 186+94 TO 187+59 LT	FOOT 65 65 65 65 260	COMMENTS
63500105	DELINEATORS LOCATION STA 173+51 TO BRIDGE BRIDGE TO STA 193+62	EACH 5 4 9	COMMENTS
66700305	PERMANENT SURVEY MARKERS, TYPE II LOCATION TBD BY CHIEF OF SURVEYS	EACH 1 1	COMMENTS
70107025	CHANGEABLE MESSAGE SIGN LOCATION TBD BY ENGINEER	CAL DA 45 45	COMMENTS SEE DETOUR PLAN NOTES
70300150	SHORT TERM PAVEMENT MARKING REMOVAL LOCATION RIVERSIDE BLVD IL ROUTE 70	SQ FT 290 450 740	COMMENTS SEE DETOUR PLAN SEE DETOUR PLAN
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE LOCATION RIVERSIDE BLVD IL ROUTE 70	FOOT 869 1352 2221	COMMENTS SEE DETOUR PLAN SEE DETOUR PLAN
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A LOCATION 186+13.25, 37.36 RT	EACH 2 2	COMMENTS SEE PLAN AND PROF
72501000	TERMINAL MARKER - DIRECT APPLIED LOCATION STA 184+74 LT STA 184+51 RT STA 188+02 RT STA 188+41 LT	EACH 1 1 1 1 4	COMMENTS
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" LOCATION STA 173+51 TO STA 193+62 STA 173+51 TO STA 193+62	FOOT 4022 4022 8044	COMMENTS YLW CENTER LINES WHT EDGE LINES
78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5" LOCATION STA 173+51 TO STA 193+62 STA 173+51 TO STA 193+62	FOOT 4022 4022 8044	COMMENTS YLW CENTER LINES WHT EDGE LINES
X782007	GUARDRAIL REFLECTORS, TYPE C (SPECIAL) LOCATION STA 184+70 TO 188+32 LT STA 184+72 TO 188+05 RT	EACH 12 12 24	COMMENTS
Z0028415	GEOTECHNICAL REINFORCEMENT LOCATION STA 176+00 TO 180+00 STA 182+00 TO 183+00	SQ YD 1911 478 2389	COMMENTS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
SPRINGFIELD AVENUE**

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	11
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				

STATION	STATION	•40600275• BITUMINOUS MATERIALS (PRIME COAT) (POUNDS)	••40600290•• BITUMINOUS MATERIALS (TACK COAT) (POUNDS)	40600370 LONGITUDINAL JOINT SEALANT (FEET)	•••40603080••• HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (TONS)	••••40604050••• HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50 (TONS)	40604060 HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 (TONS)	44000157 HOT-MIX ASPHALT SURFACE REMOVAL, 2" (SQ YD)	48203021 HOT-MIX ASPHALT SHOULDERS, 6" (SQ YD)	44200934 CLASS B PATCHES, TYPE II, 8 INCH (SQ YD)	44200942 CLASS B PATCHES, TYPE III, 8 INCH (SQ YD)	44200944 CLASS B PATCHES, TYPE IV, 8 INCH (SQ YD)
173+51	BRIDGE	1317	3541	1196	1591	236	354	-	2113	-	-	-
BRIDGE	193+62	711	1852	632	834	125	185	-	1114	-	-	-
TBD BY ENGINEER (DETOUR) (10% HMA DETOUR PAVEMENT)		-	636	-	-	426	-	1413	-	1172	1172	1172
TOTAL		2,027	6,028	1,828	2,425	787	539	1,413	3,227	1,172	1,172	1,172

•BITUMINOUS MATERIALS (PRIME COAT) RATE OF APPLICATION = 0.25 LB / SQ FT ON AGGREGATE

••BITUMINOUS MATERIALS (TACK COAT) RATE OF APPLICATION = 0.05 LB / SQ FT ON EXISTING HMA, 0.025 LB / SQ FT BETWEEN HMA LIFTS

•••HOT-MIX ASPHALT RATE OF APPLICATION = 112 LB / SQ YD/ IN

EARTHWORK QUANTITIES SUMMARY TABLE

LOCATION	EARTH EXCAVATION (CU YD)	SAUITABLE EXCAVATION (ADJUSTED EARTH EXCAVATION 25%) (CU YD)	EMBANKMENT (CU YD)	BALANCE WASTE (+) OR SHORTAGE (-)	CHANNEL EXCAVATION (CU YD)	TOPSOIL STRIP (CU YD)	TOPSOIL RESPREAD (CU YD)	TOPSOIL EXCAVATION & PLACEMENT (CU YD)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS (CU YD)	
									BALANCE OF TOPSOIL WASTE (+) OR SHORTAGE (-) (CU YD)	UNDERCUT (CU YD) (NOMINAL QTY)
	20200100				20300100			21101505	20201200	
STA 173+51 TO BRIDGE	2462	1,847	48	1,799	555	272	234	272	39	25
BRIDGE TO STA 193+62	836	627	83	544	490	167	142	167	25	25
PROJECT TOTAL	3,298	2,474	131	2,343	1,045	439	376	439	64	50

NOTES:

CONTRACTOR SHALL STRIP AND STOCKPILE TOPSOIL UNDER PAY ITEM, TOPSOIL EXCAVATION AND PLACEMENT

CONTRACTOR TO EXCAVATE ANY NECESSARY UNDERCUT AREAS UNDER PAY ITEM REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS.

DIFFERENCE BETWEEN TOPSOIL RESPREAD (PAID AS TOPSOIL EXCAVATION AND PLACEMENT) AND REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS TO BE HAULED OFFSITE AND PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS.

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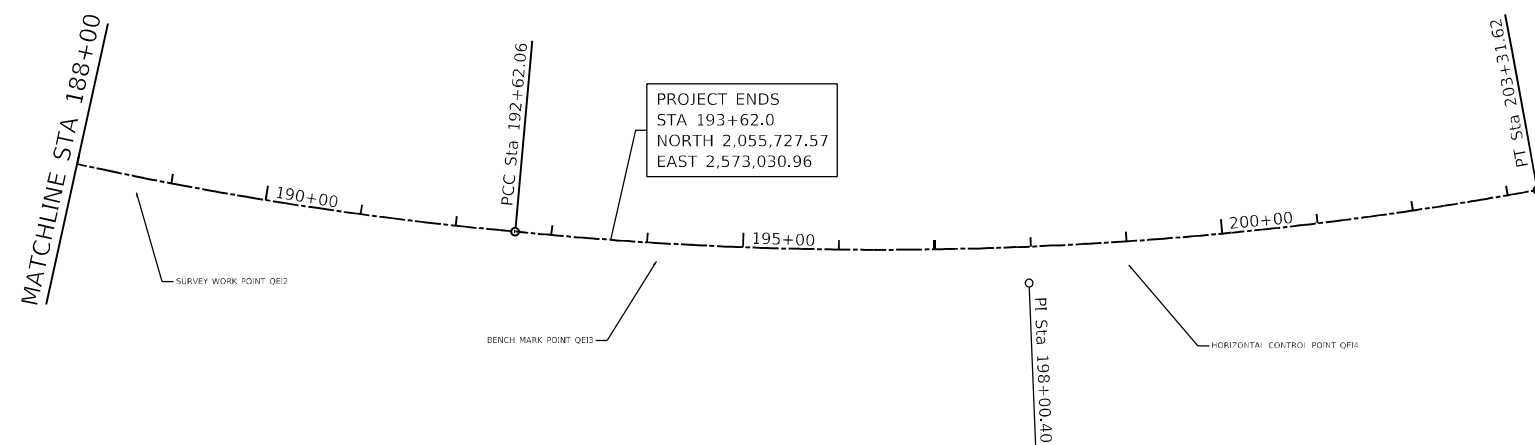
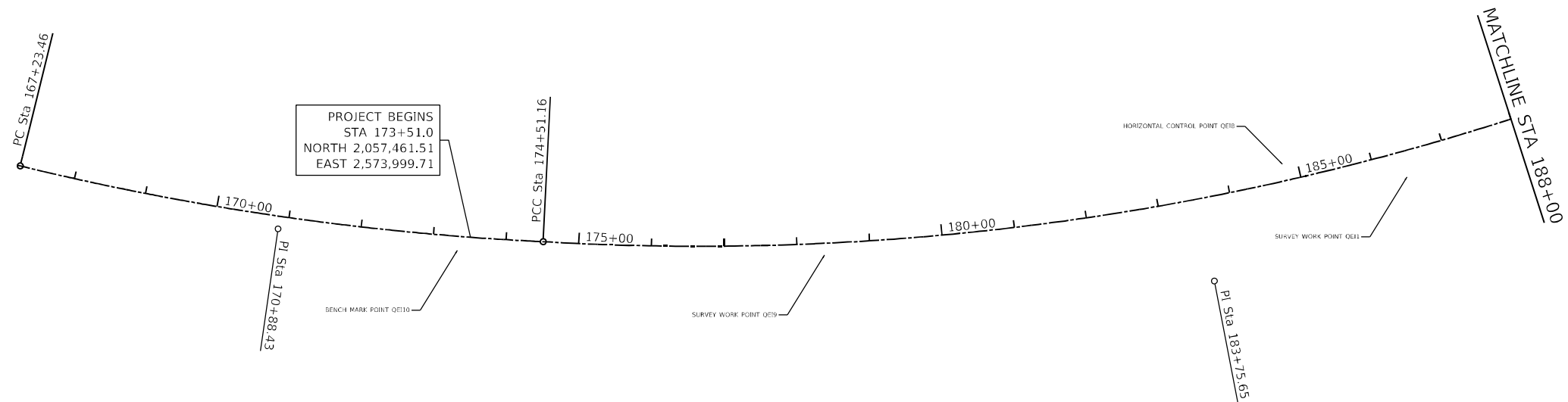
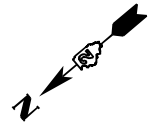
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
SPRINGFIELD AVENUE

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	12
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				

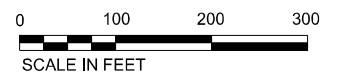
HORIZONTAL AND VERTICAL CONTROL



HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
OE14	2055200.208	2572912.814	775.257	PR_SPRFIELD	199+00.56	24.86 RT	105--SJR
OE18	2056542.366	2573358.433	744.506	PR_SPRFIELD	184+79.37	23.00 LT	105--MAG
OE11	2057920.301	2574503.504	768.873	PR_SPRFIELD	166+70.63	20.84 RT	105--MAG

BENCHMARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
OE13	2055684.625	2573000.651	764.25	EX_SPRFIELD	194+09.28	19.28 RT	105--MAG
OE110	2057486.929	2573997.426	752.542	EX_SPRFIELD	173+34.50	19.43 RT	105--MAG

SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
OE11	2056422.515	2573234.784	746.275	EX_SPRFIELD	186+40.06	39.79 RT	105--CC
OE12	2056206.221	2573163.632	747.7	EX_SPRFIELD	188+66.36	16.76 RT	105--MAG
OE19	2057104.719	2573667.543	747.503	EX_SPRFIELD	178+37.18	19.48 RT	105--MAG



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HORIZONTAL AND VERTICAL CONTROL SPRINGFIELD AVENUE			
SCALE: 1" = 100'	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	13
				CONTRACT NO. 64P06
ILLINOIS FED. AID PROJECT				

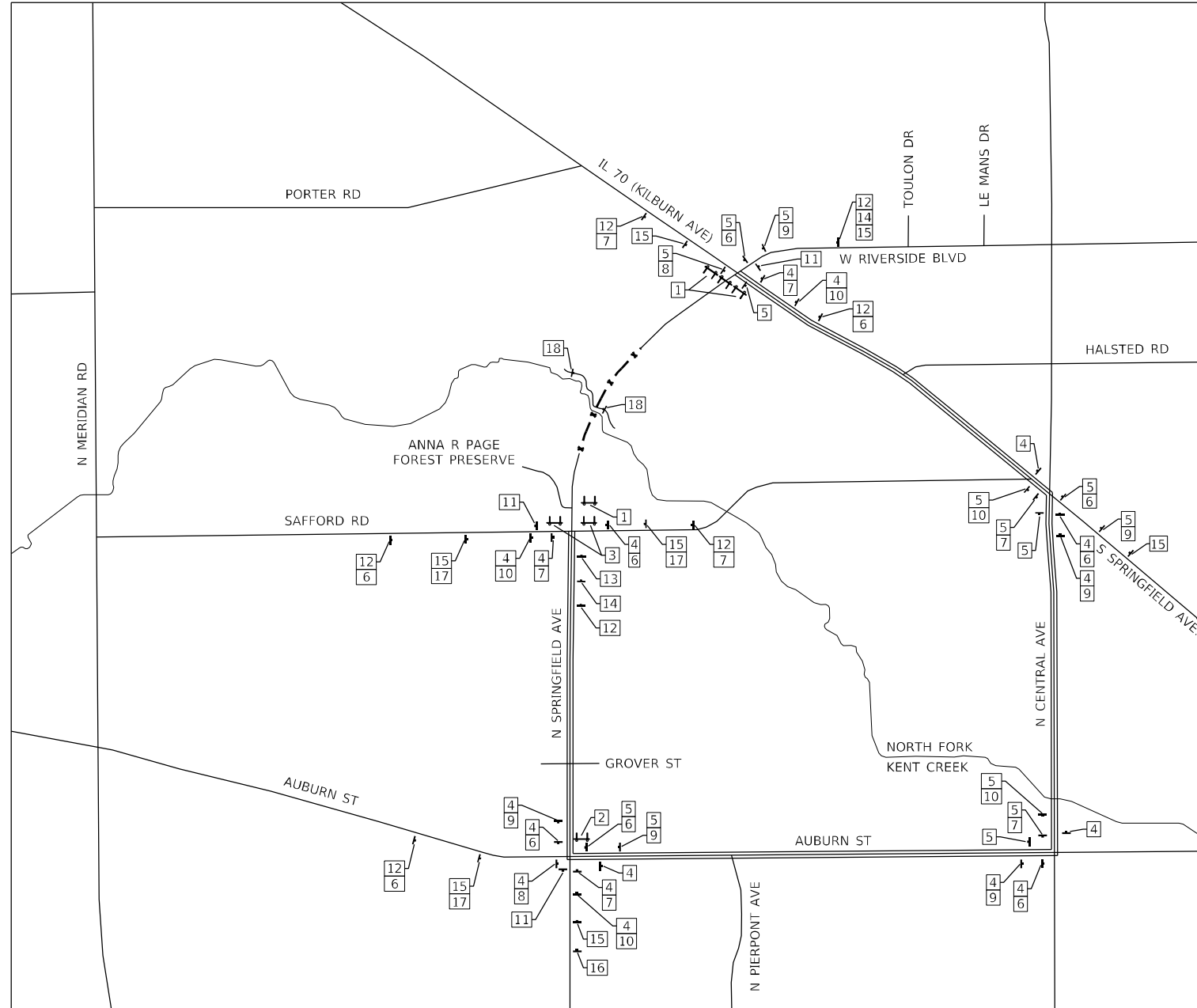


LEGEND

- PROJECT LIMITS
- DETOUR ROUTE

NOTES

1. ALL SIGNS THAT ARE NOT ATTACHED TO BARRICADES SHALL BE POST-MOUNTED.
2. SEE DISTRICT 2 STANDARD 40.1 AND HIGHWAY STANDARD 701901 FOR ADDITIONAL DETAILS.
3. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
4. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED TWO WEEKS PRIOR TO ROAD CLOSURE AND BE REMOVED ONE WEEK AFTER DETOUR IS IN PLACE.



ROAD CLOSED	1. R11-2-4830 *	
ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY	2. R11-3a-6030 *	
ROAD CLOSED TO THRU TRAFFIC	3. R11-4-6030 *	* MOUNTED ON TYPE III BARRICADE
DETOUR NORTH	4. M4-8(O)-2412	
Springfield Avenue	M3-1(WH)-2412	
Springfield Avenue	ROAD NAME SIGN 36" x 18" (WH)	
DETOUR SOUTH	5. M4-8(O)-2412	13.
Springfield Avenue	M3-3(WH)-2412	BARRICADE AHEAD
Springfield Avenue	ROAD NAME SIGN 36" x 18" (WH)	W21-i100(O)-36
	6. M6-1L(WH)-2115	14.
	7. M6-1R(WH)-2115	ROAD CLOSED 1000 FT
	8. M6-3(WH)-2115	W20-3(O)-36
	9. M5-1L(WH)-2115	15.
	10. M5-1R(WH)-2115	DETOUR AHEAD
END DETOUR	11. M4-8a(O)-2418	W20-2(O)-36
	12. W20-3(O)-48	16.
		ROAD CLOSED 1 MILE
		W20-3(O)-36
		17.
		Springfield Avenue
		18.
		TRAIL CLOSED

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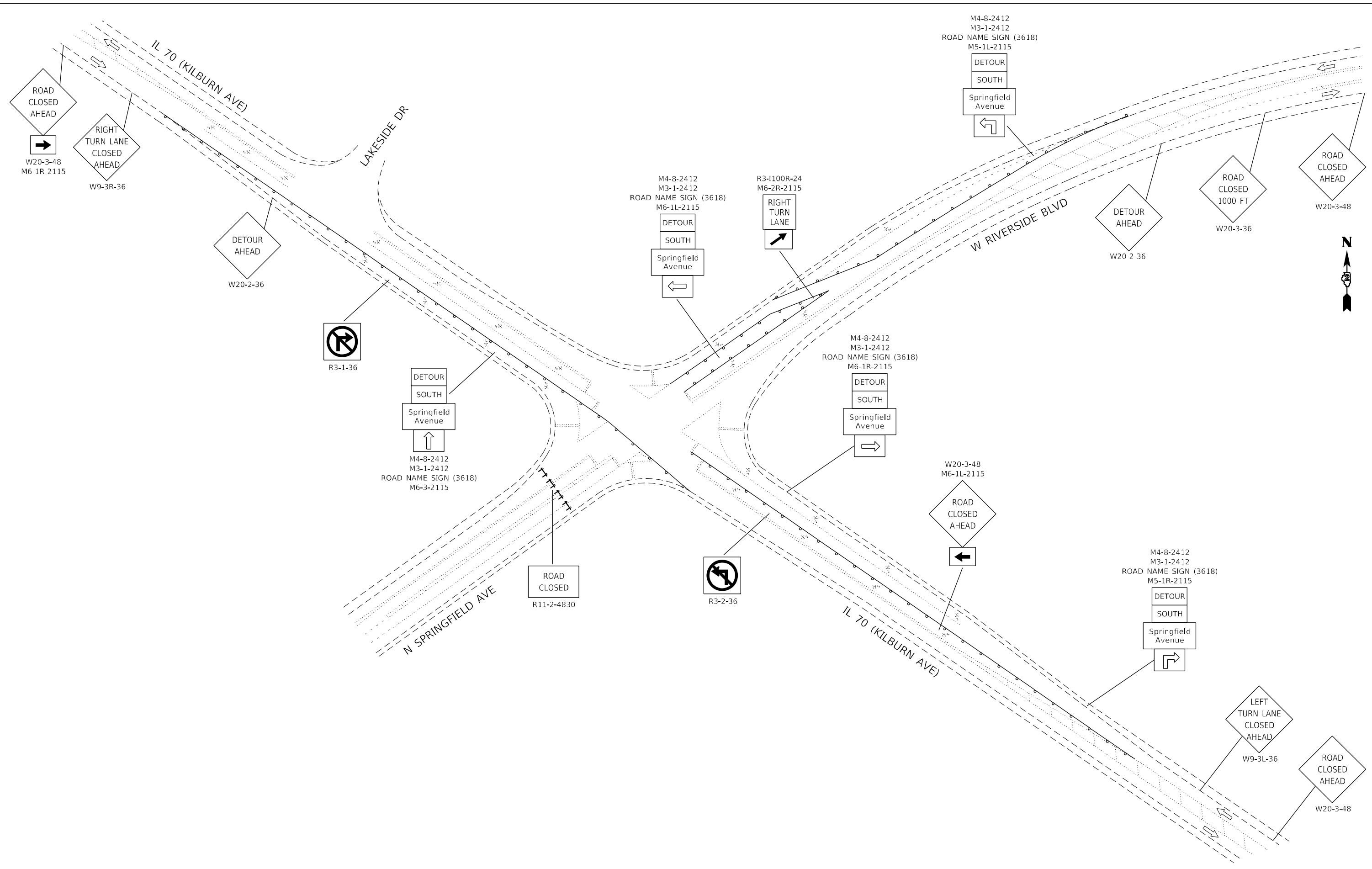
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR PLAN
SPRINGFIELD AVENUE**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	17
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				

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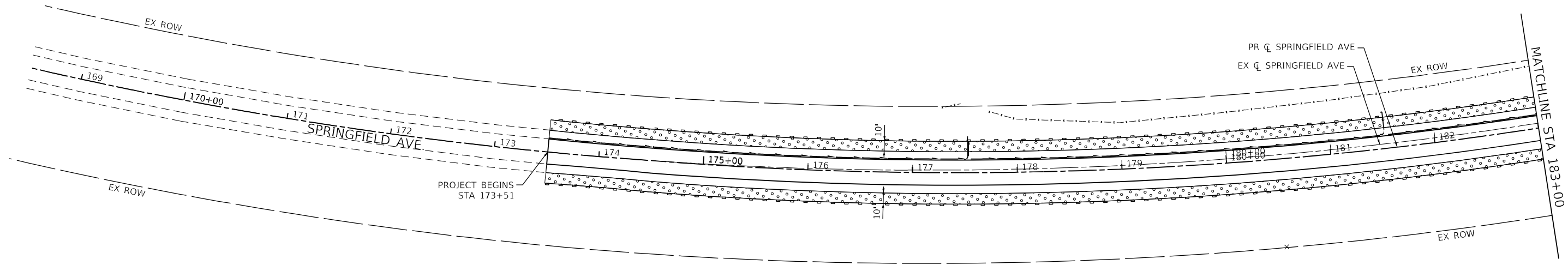
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**




**DETOUR PLAN
 SPRINGFIELD AVENUE**

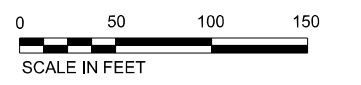
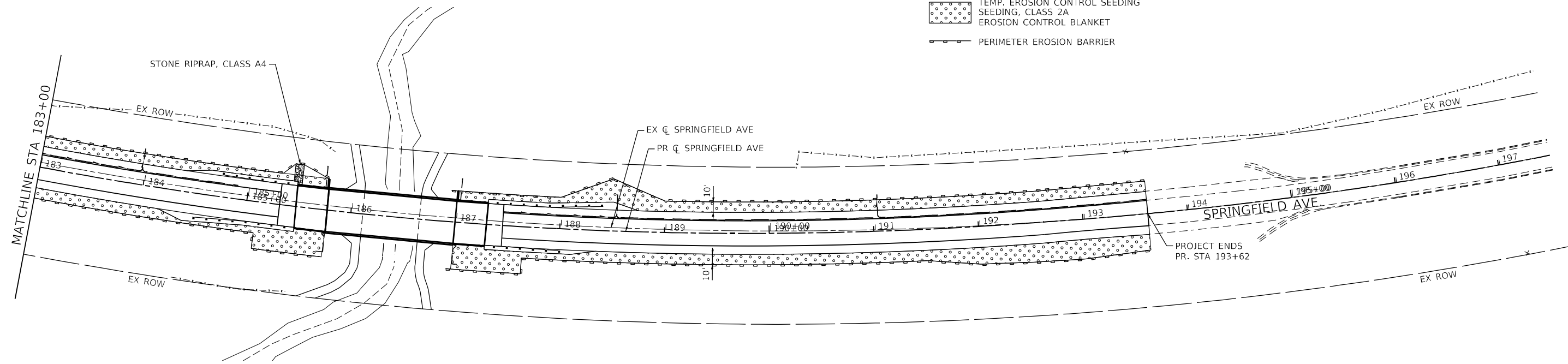
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	18
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				



LEGEND

-  TEMP. EROSION CONTROL SEEDING SEEDING, CLASS 2A
-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER



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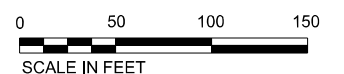
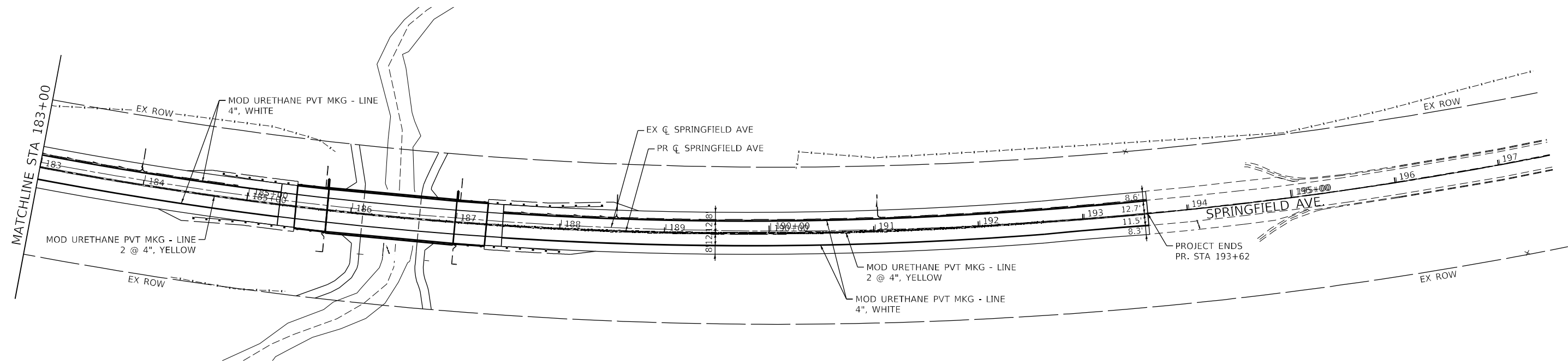
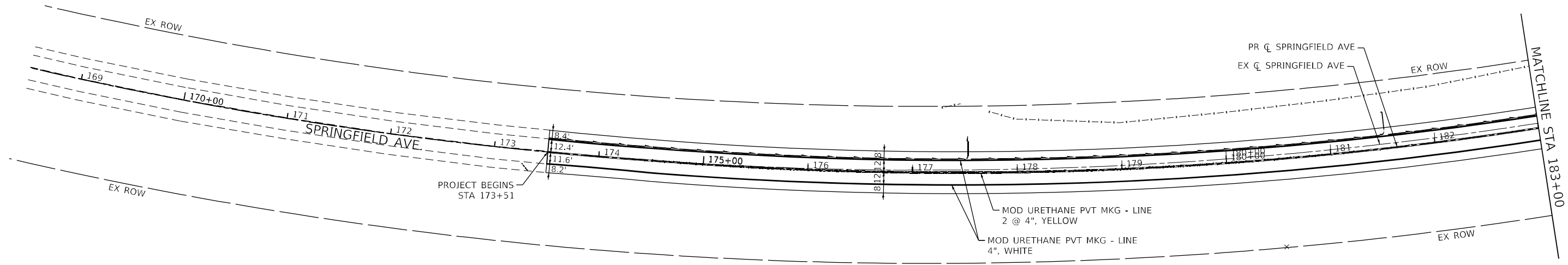


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DRAWN - WT	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - JPO	REVISED -
PLOT DATE = 7/22/2024	DATE - 7/26/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL AND SEEDING PLAN SPRINGFIELD AVENUE			
SCALE: 1" = 50'	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	19
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				



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USER NAME = gellwanger	DESIGNED - WT	REVISED -
DRAWN - WT	REVISOR -	
PLOT SCALE = 100,0000' / in.	CHECKED - JPO	REVISED -
PLOT DATE = 7/22/2024	DATE - 7/26/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLANS
SPRINGFIELD AVENUE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	20
			CONTRACT NO. 64P06	
ILLINOIS FED. AID PROJECT				

Benchmark: Cut cross in existing bridge deck, near \bar{C} span at west shoulder, Elevation 746.275

Existing Structure: Structure No. 101-0100 was originally constructed in 1959, F.A.S. Route 1058. It consists of non-composite three-span continuous steel beam bridge. The structure is 32'-8" from outside the east parapet to the centerline longitudinal joint and 65'-4" out to out of parapets full structure width, with the west half unused. It is 114'-4" along the centerline back to back abutments. The bridge will be closed and traffic will be detoured.

Salvage: No salvage.

WATERWAY INFORMATION

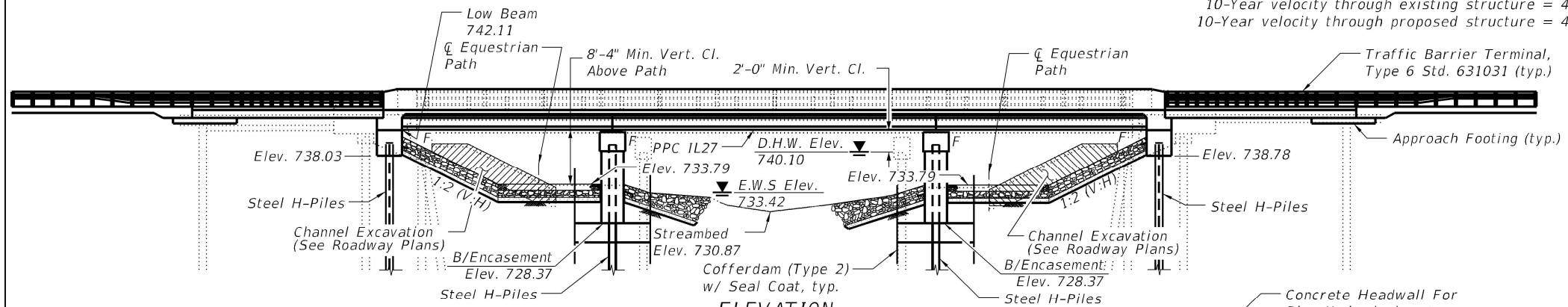
Drainage Area = 19.3 sq. mi. Exist. Overtopping Elev. 745.08 at Sta. 184+00
Prop. Overtopping Elev. 745.63 at Sta. 184+00

Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	1,665	471	573	738.8	0.2	0.2	739.0	739.0	
Base	50	2,982	596	718	740.1	0.5	0.4	740.6	740.5	
Overtopping	100	3,676	652	782	740.7	0.6	0.6	741.3	741.3	
Max. Calc.	500	5,445	783	926	741.9	0.9	0.9	742.8	742.8	

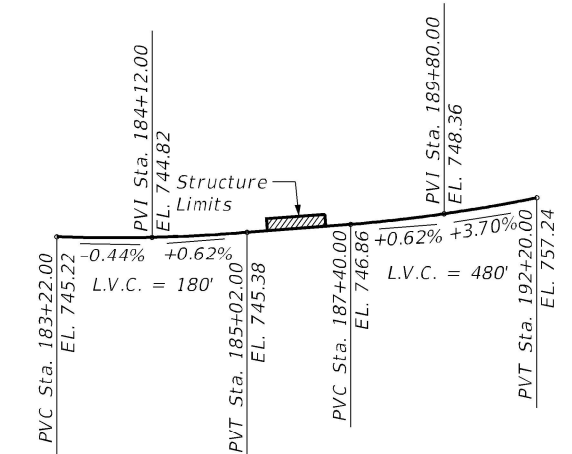
DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)				Item 113
	N. Abut.	Pier 1	Pier 2	S. Abut.	
Q100	738.06	724.43	723.63	738.29	5
Q200	738.06	721.84	721.04	738.29	
Design Check	738.06	724.43	723.63	738.29	

10-Year velocity through existing structure = 4.16 ft/s
10-Year velocity through proposed structure = 4.01 ft/s



ELEVATION



PROFILE GRADE

(Along \bar{C} Springfield Avenue)

SEISMIC DATA

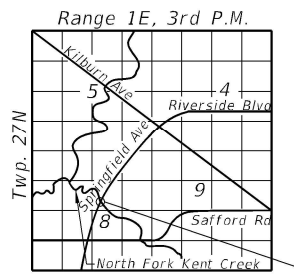
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.055g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.096g
Soil Site Class = C

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

LOADING HL-93

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



LOCATION SKETCH

APPROVED
For Structural Adequacy Only

Matthew J. Willey
Engineer of Bridges & Structures



Matthew J. Willey
DATE SIGNED: 08-06-2024
EXP. DATE: 11-30-2024

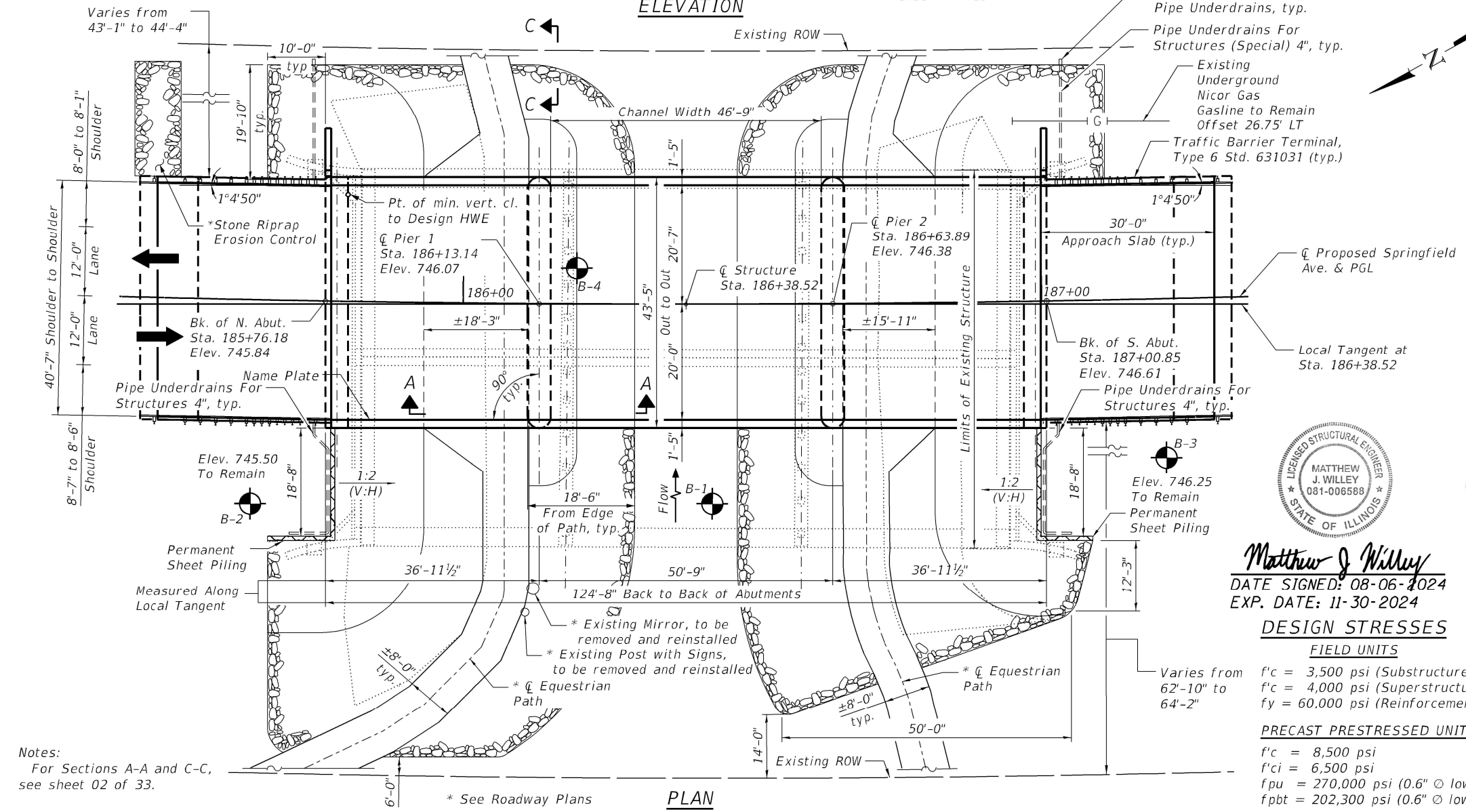
DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi (Substructure)
f'c = 4,000 psi (Superstructure)
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 8,500 psi
f'ci = 6,500 psi
fpu = 270,000 psi (0.6" \bar{O} low lax. strands)
fpbt = 202,300 psi (0.6" \bar{O} low lax. strands)

GENERAL PLAN & ELEVATION
SPRINGFIELD AVE OVER N. FORK OF KENT CREEK
FAP 0525 - SECTION 111BR
WINNEBAGO COUNTY
STATION 186+38.52
STRUCTURE NO. 101-0229



PLAN

Notes:
For Sections A-A and C-C, see sheet 02 of 33.



USER NAME =	DESIGNED - ES	REVISED -
PLOT SCALE =	CHECKED - MJW	REVISED -
PLOT DATE =	DRAWN - ES	REVISED -
	CHECKED - MJW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 101-0229

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	21
CONTRACT NO. 64P06				

SHEET 01 OF 33 SHEETS

ILLINOIS FED. AID PROJECT

MODEL: Default
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GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. The finishing machine rails shall be placed on the top flange of the exterior beams within the deck pour. Beam blocks shall be placed between beams at all tie locations in each bay for the full width of the deck pour.
3. The Seal coat design thickness is based on the Cofferdam Design Water Elevation (CDWE) shown. Final cofferdam design, details, and seal coat thickness shall be submitted to the Engineer for approval. The CDWE is equal to the Estimated Water Surface Elevations (EWSE) plus 3 feet.
4. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
5. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
6. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.

STA. 186+38.52
 BUILT 20__ BY
 STATE OF ILLINOIS
 F.A.P. RT. 0525-SEC 111BR
 LOADING HL-93
 STR. NO. 101-0229

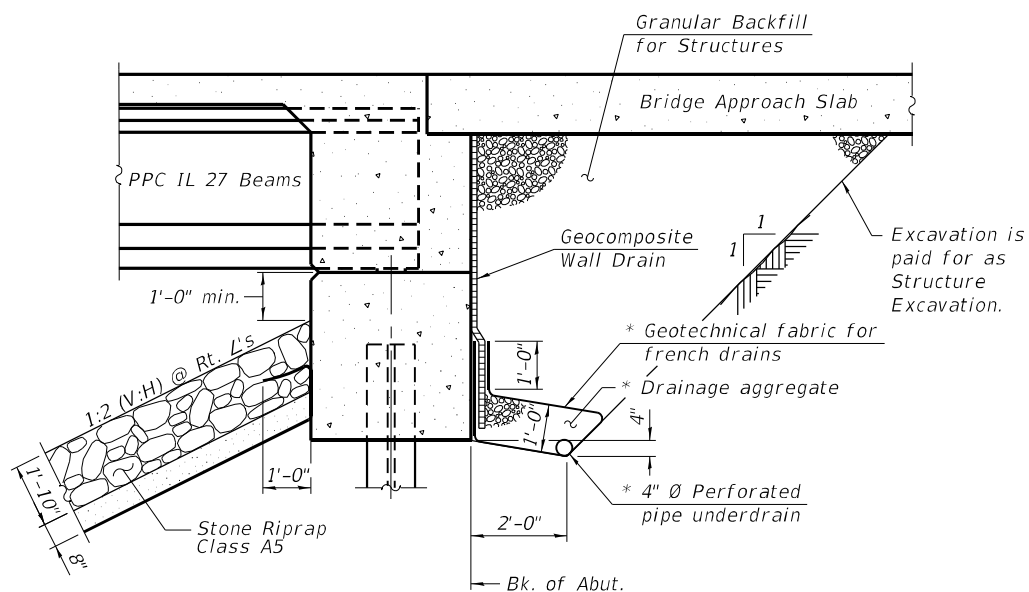
NAME PLATE
 See Std. 515001

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Substructure Layout
4. Permanent Soil Retention System
5. Permanent Soil Retention System Details
6. Top of Slab Elevations Layout
7. Top of Slab Elevations I
8. Top of Slab Elevations II
9. Top of North Approach Slab Elevations
10. Top of South Approach Slab Elevations
11. Superstructure Plan
12. Superstructure Cross Section
13. Superstructure Details I
14. Abutment Diaphragm Details
15. Pier Diaphragm Details
16. North Approach Slab Plan
17. South Approach Slab Plan
18. Approach Slab Details
19. Framing Plan
20. IL27N Beam (Spans 1 & 3)
21. IL27N Beam (Span 2)
22. IL27N Beam Details
23. North Abutment
24. South Abutment
25. Pier 1 & 2
26. Pier Details
27. Cofferdam and Seal Coat Details
28. HP Pile Details
29. Concrete Parapet Slipforming Option
30. Boring Logs I
31. Boring Logs II
32. Boring Logs III
33. Boring Logs IV

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq Yd	---	1,671	1,671
Filter Fabric	Sq Yd	---	1,826	1,826
Removal Of Existing Structures	Each	1	---	1
Structure Excavation	Cu Yd	---	289	289
Cofferdam Excavation	Cu Yd	---	410	410
Cofferdam (Type 2) (Location - 1)	Each	---	1	1
Cofferdam (Type 2) (Location - 2)	Each	---	1	1
Concrete Structures	Cu Yd	---	256.5	256.5
Concrete Superstructure	Cu Yd	214.0	---	214.0
Bridge Deck Grooving	Sq Yd	784.0	---	784.0
Seal Coat Concrete	Cu Yd	---	151.8	151.8
Protective Coat	Sq Yd	950	---	950
Concrete Superstructure (Approach Slab)	Cu Yd	118.4	---	118.4
Furnishing And Erecting Precast Prestressed Concrete Beams, IL27N	Foot	720.0	---	720.0
Reinforcement Bars, Epoxy Coated	Pound	89,590	27,370	116,960
Furnishing Steel Piles HP12x63	Foot	---	510	510
Furnishing Steel Piles HP14x89	Foot	---	555	555
Driving Piles	Foot	---	1,065	1,065
Test Pile Steel HP12x63	Each	---	2	2
Test Pile Steel HP14x89	Each	---	2	2
Pile Shoes	Each	---	24	24
Name Plates	Each	1	---	1
Permanent Sheet Piling	Sq Ft	---	1,645	1,645
Granular Backfill For Structures	Cu Yd	---	136	136
Geocomposite Wall Drain	Sq Yd	---	84	84
Pipe Underdrains For Structures 4"	Foot	---	139	139
Pipe Underdrains For Structures (Special) 4"	Foot	---	40	40
Bar Terminators	Each	---	304	304

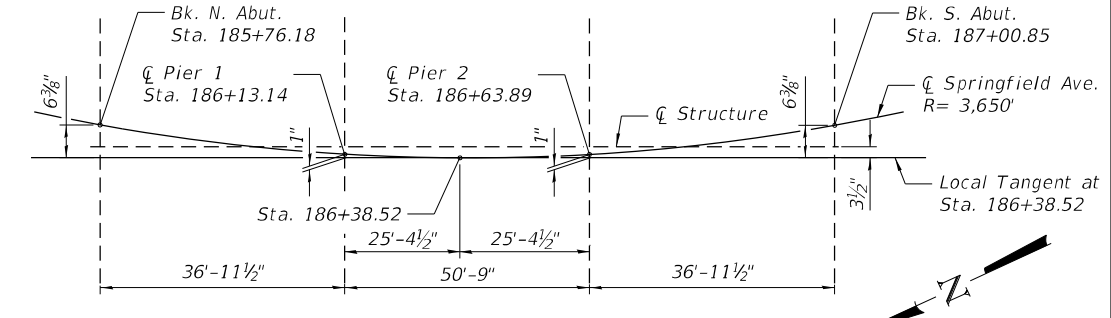


SECTION THRU INTEGRAL ABUTMENT
 (Horiz. dim. at Rt. L's)

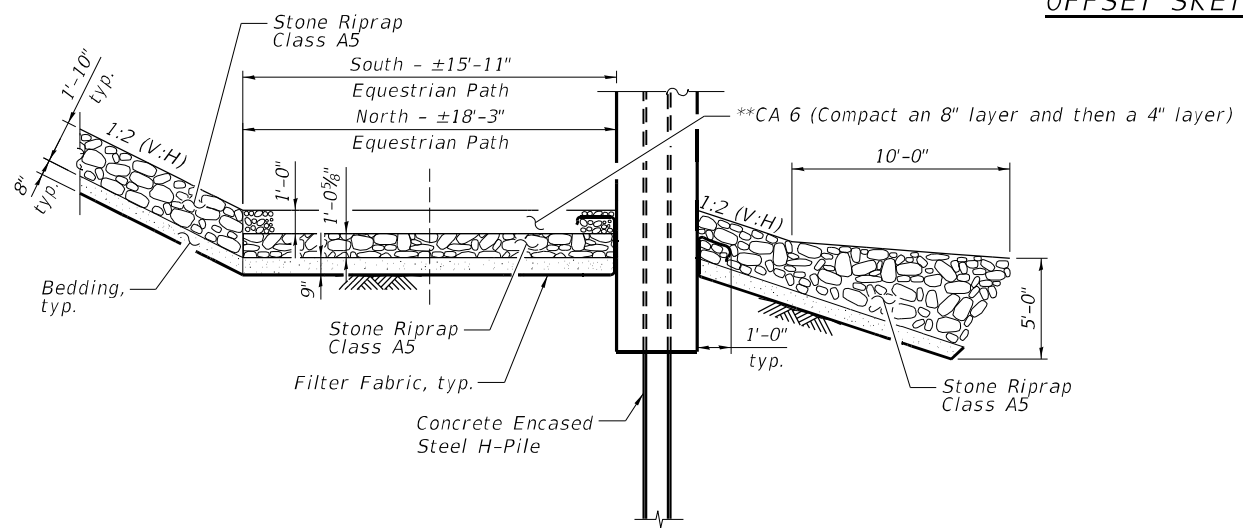
Notes:
 All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).
 Granular Backfill behind the abutments shall be compacted according to Article 205.06 of the Standard Specifications.

CURVE DATA

PI Sta. = 183+75.65
 $\Delta = 28^\circ 25' 36''$ (LT)
 $D = 1^\circ 34' 11''$
 $R = 3,650.00'$
 $T = 924.49'$
 $L = 1,810.90'$
 $E = 115.26'$
 P.C. Sta. = 174+51.16
 P.T. Sta. = 192+62.06



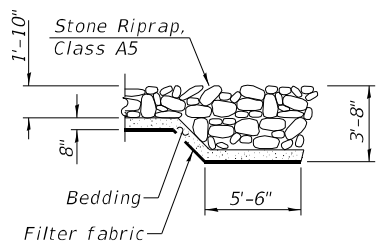
OFFSET SKETCH



SECTION A-A

(Section at Pier 1 Shown)
 (Section at Pier 2 Similar)

** See Roadway Plans for Quantity and Pay Item as "Aggregate Surface Course, Type B"



SECTION C-C

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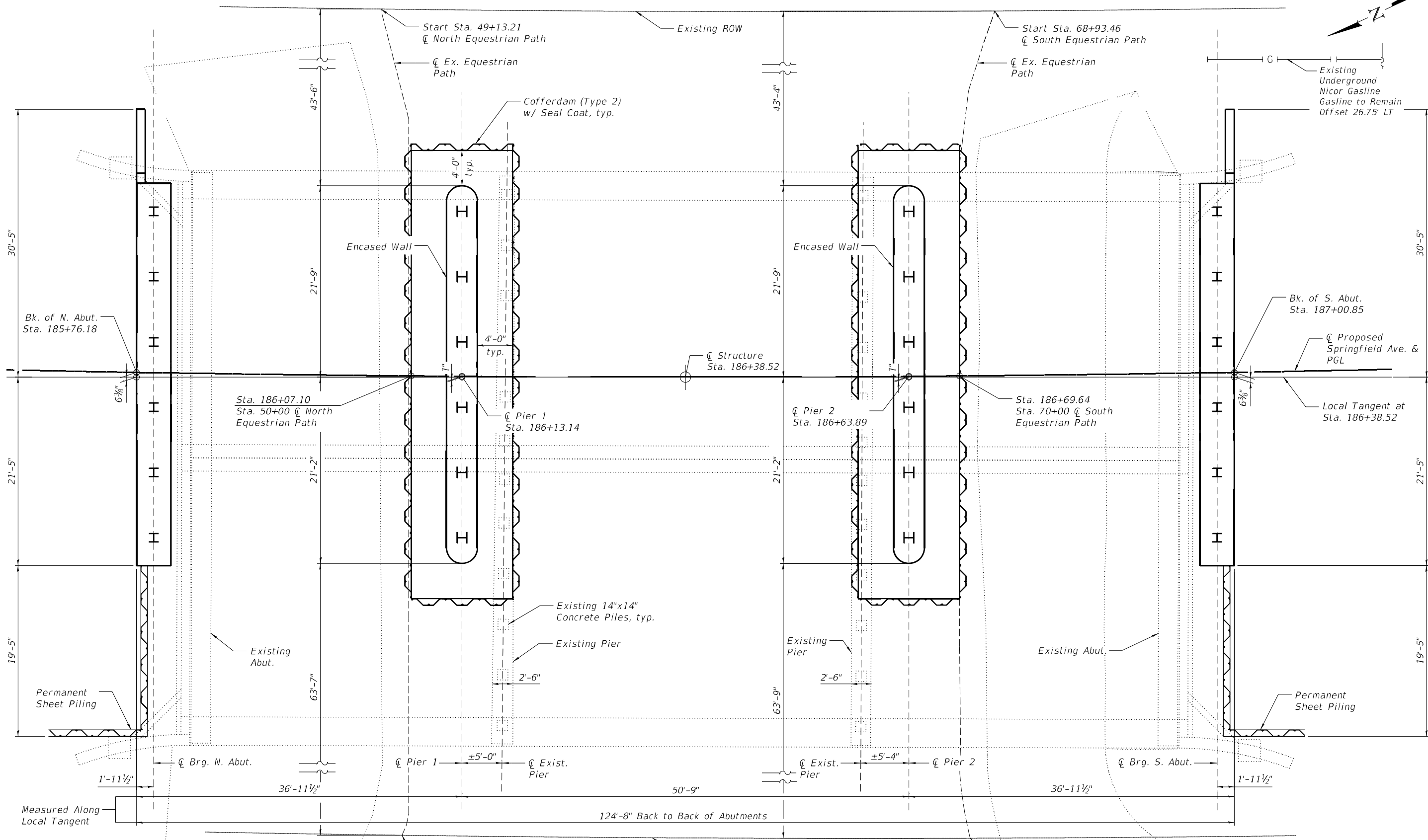
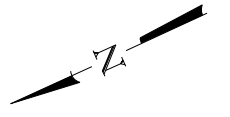


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PLOT SCALE =	CHECKED - MJW	REVISED -
PLOT DATE =	DRAWN - ES	REVISED -
	CHECKED - MJW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 101-0229

F.A.P. RTE. 525	SECTION 111BR	COUNTY WINNEBAGO	TOTAL SHEETS 80	SHEET NO. 22
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				



SUBSTRUCTURE LAYOUT

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUBSTRUCTURE LAYOUT
STRUCTURE NO. 101-0229**

SHEET 03 OF 33 SHEETS

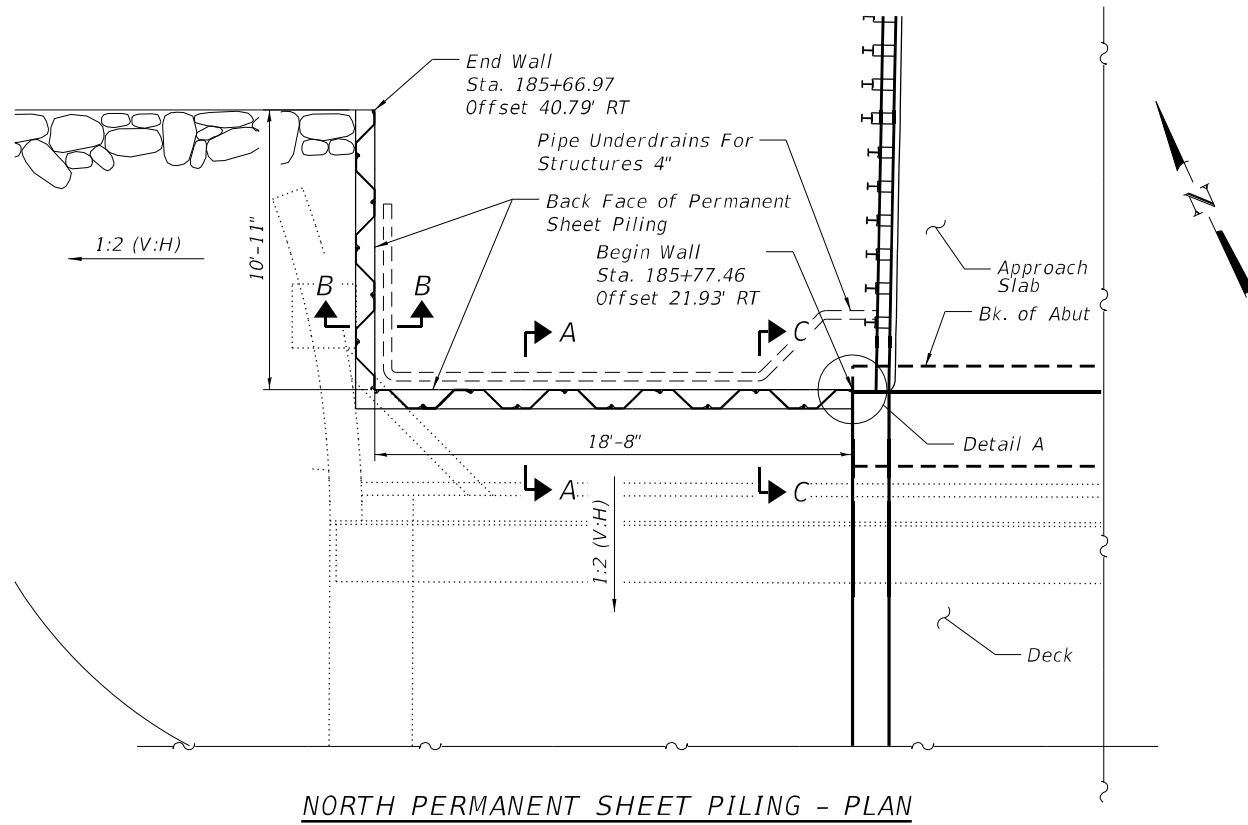
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	23
CONTRACT NO. 64P06				

ILLINOIS FED. AID PROJECT

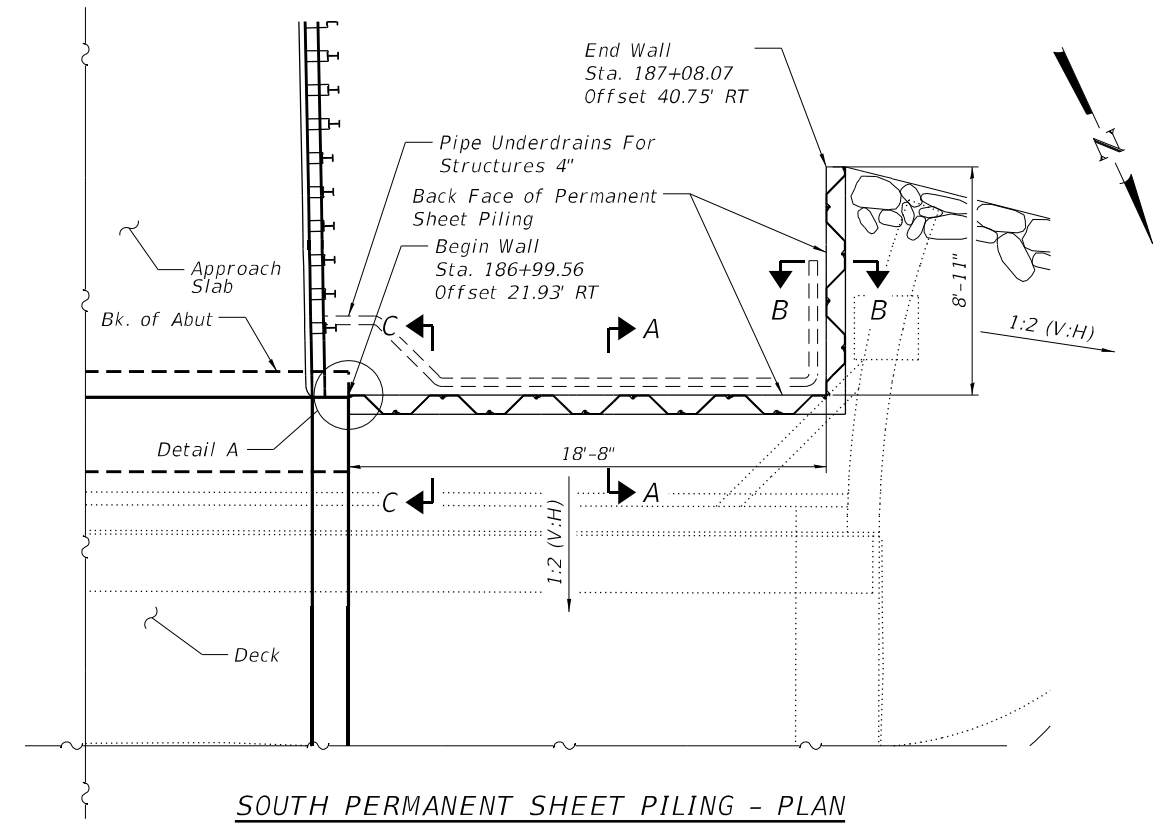
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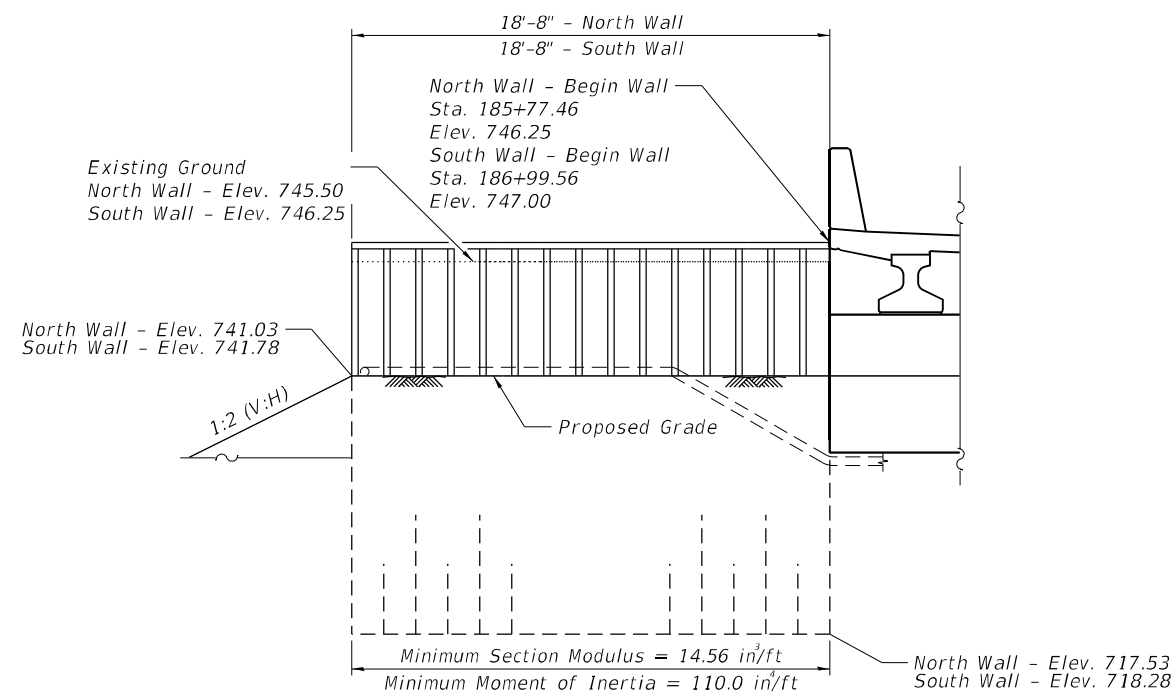
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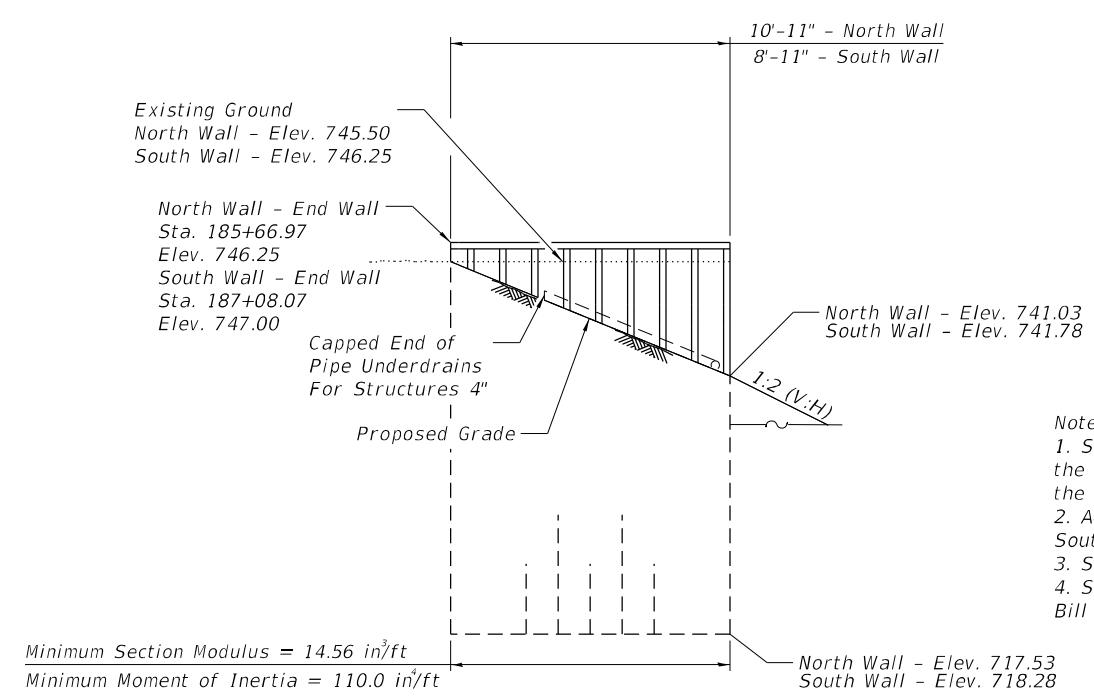
NORTH PERMANENT SHEET PILING - PLAN



SOUTH PERMANENT SHEET PILING - PLAN



PERMANENT SHEET PILING - ELEVATION
(Looking North - North Wall)
(South Wall Similar)



PERMANENT SHEET PILING - ELEVATION
(Looking East - North Wall)
(South Wall Similar)

DESIGN STRESSES
FIELD UNITS
 $f_y = 50,000 \text{ psi (M202 Grade 50)}$

- Notes:
1. Stations & Offsets are given to the back face of the Permanent Sheet Piling and are measured from the ϕ of Springfield Ave.
 2. Acceptable sheet pile section for the North and South wall is PZ 27.
 3. See sheet 01 of 33 for Underdrain Discharge.
 4. See sheet 05 of 33 for additional details and Bill of Material.

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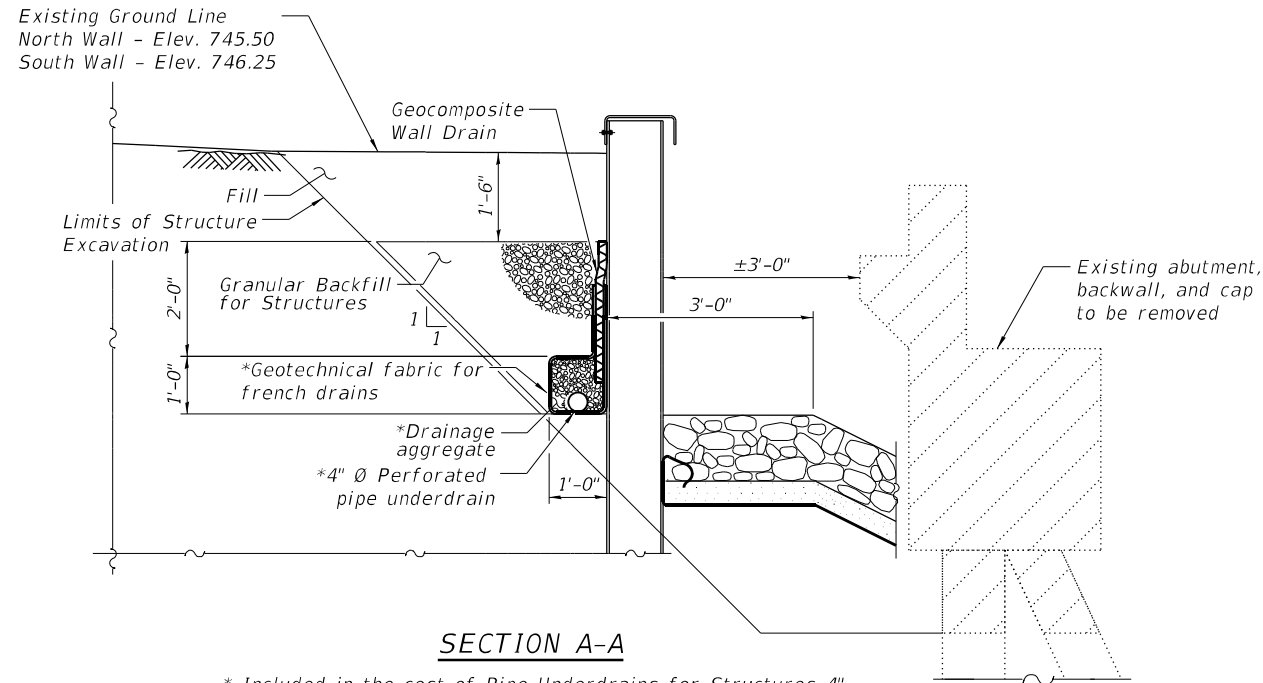
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PLOT SCALE =	CHECKED - MJW	REVISED -
PLOT DATE =	DRAWN - ES	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PERMANENT SOIL RETENTION SYSTEM
STRUCTURE NO. 101-0229

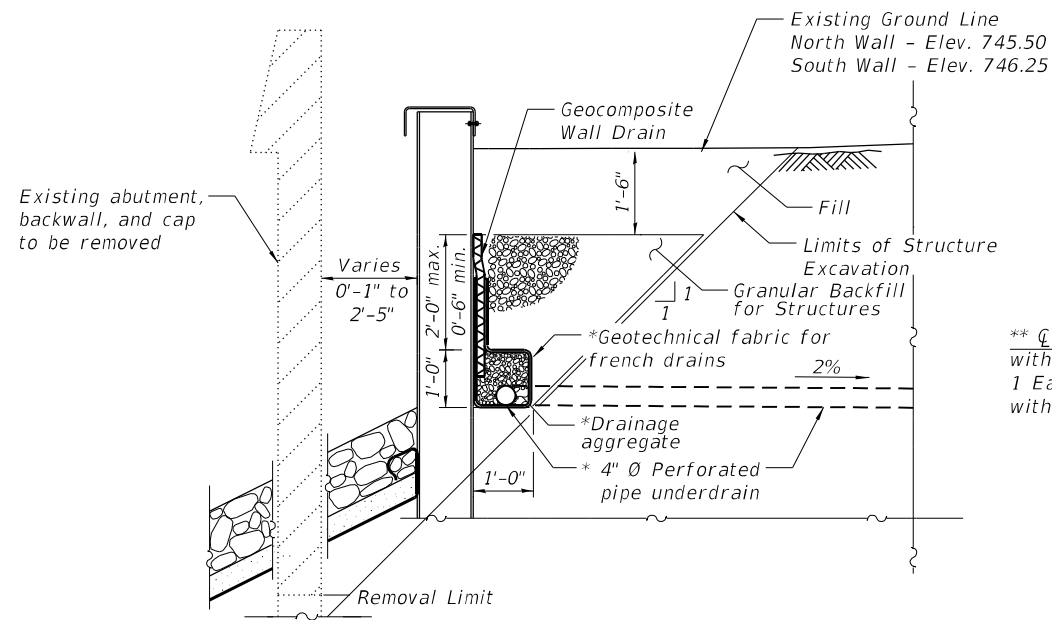
SHEET 04 OF 33 SHEETS

F.A.P. RTE. 525	SECTION 111BR	COUNTY WINNEBAGO	TOTAL SHEETS 80	SHEET NO. 24
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				



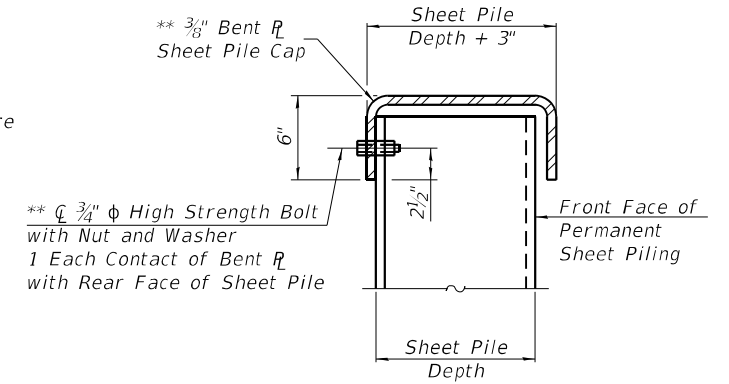
SECTION A-A

* Included in the cost of Pipe Underdrains for Structures 4".



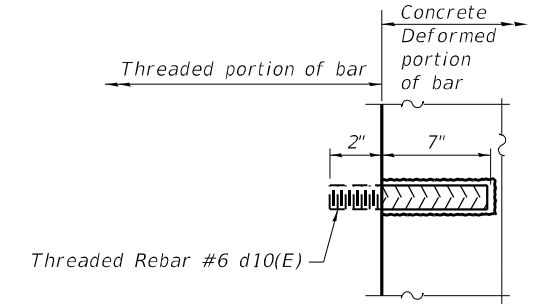
SECTION B-B

* Included in the cost of Pipe Underdrains for Structures 4".



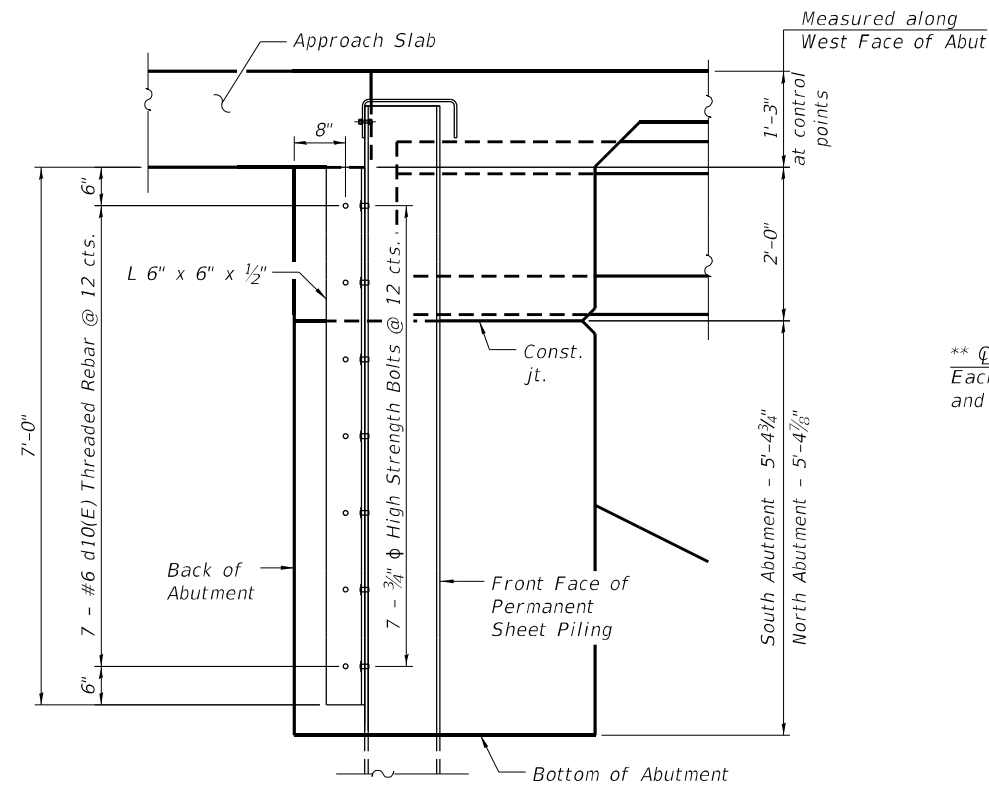
SECTION THRU CAP

** Included in the cost of Permanent Sheet Piling.



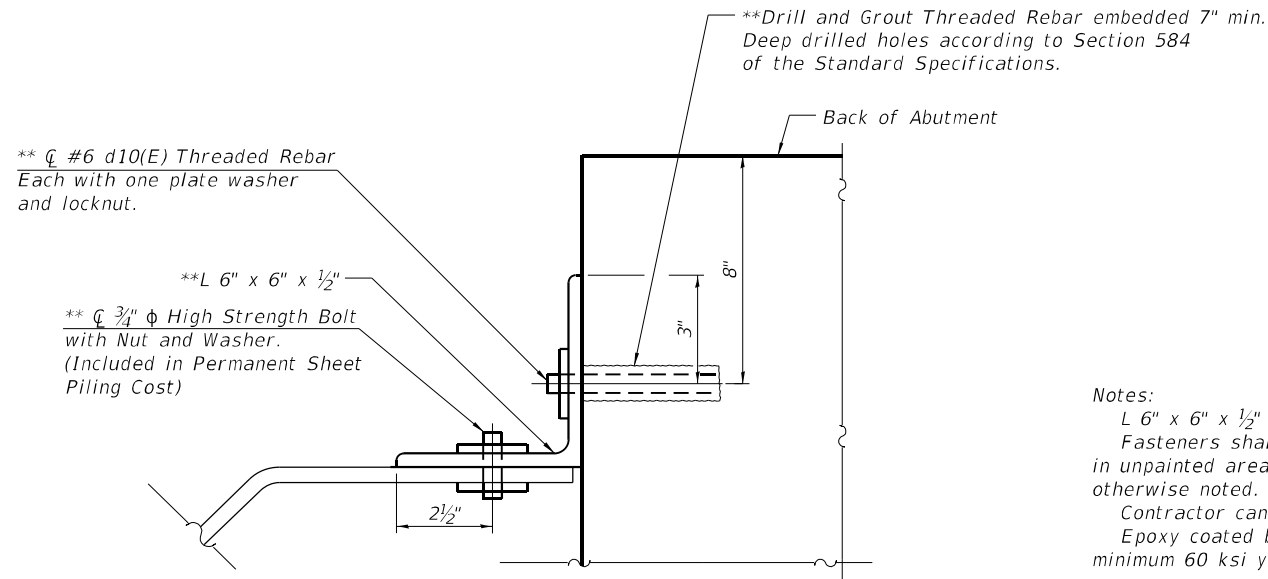
#6 THREADED REBAR

(7 required at each abutment)



SECTION C-C

(North abutment shown)
(South abutment similar)



DETAIL A

(North abutment shown)
(South abutment similar)

** Included in the cost of Permanent Sheet Piling.

SEQUENCE OF CONSTRUCTION

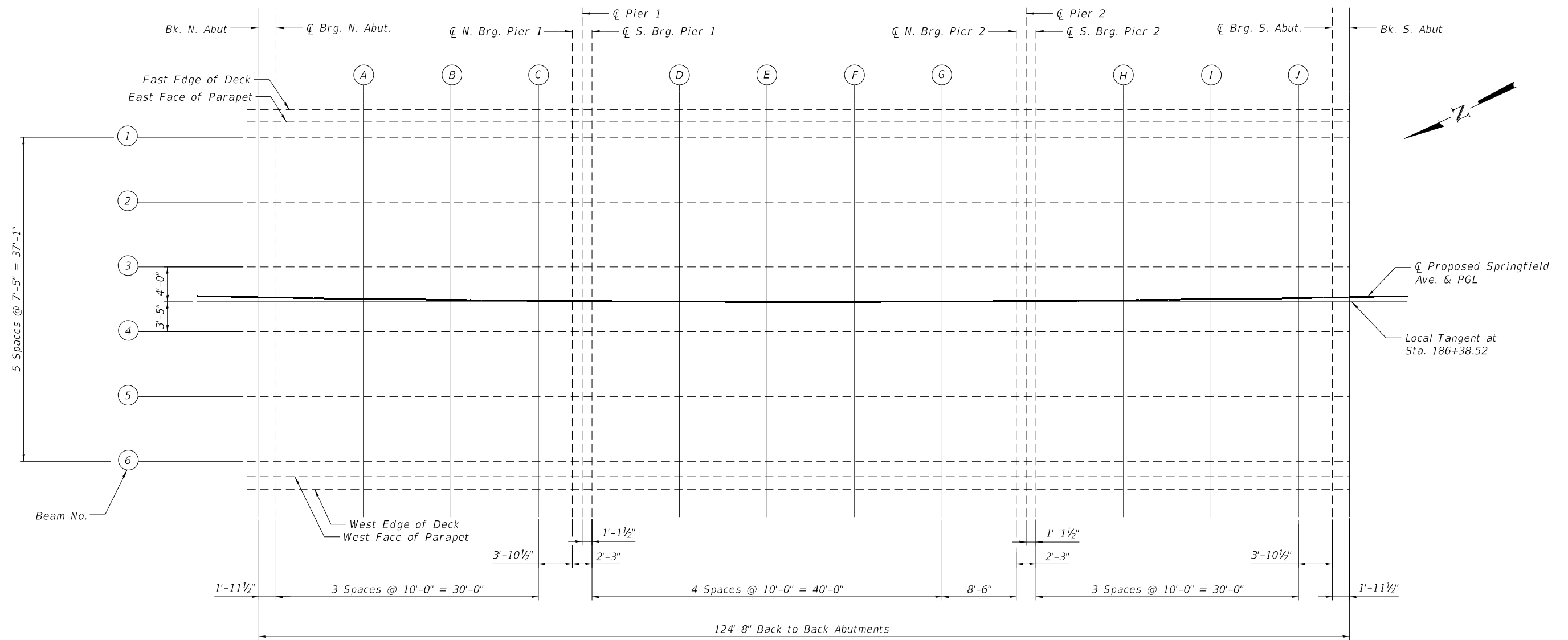
1. Demolish and remove existing structure
2. Cut and remove existing piles to at least 2'-0" below proposed ground surface.
3. Excavate
4. Drive abutment piles
5. Install abutment reinforcement and forms
6. Pour abutment cap concrete
7. Set beams
8. Pour abutment diaphragm
9. Install connection angle
10. Install sheet piling and bolt to connection angle
11. Backfill

Notes:

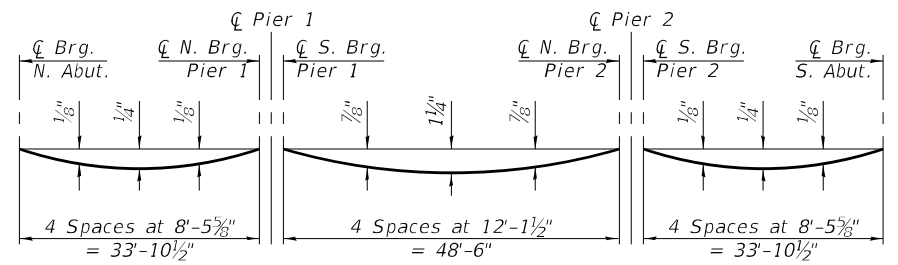
L 6" x 6" x 1/2" shall be Grade 50.
Fasteners shall be ASTM F3125 Grade A325 Type 3 weathering steel bolts in unpainted areas. Bolts 3/4 in. diameter, holes 15/16 in. diameter, unless otherwise noted. (For Permanent Sheet Piling)
Contractor can elect to drill and grout or to cast-in-place threaded rebar.
Epoxy coated bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

BILL OF MATERIAL

Item	Unit	Total
Permanent Sheet Piling	Sq. Ft.	1645

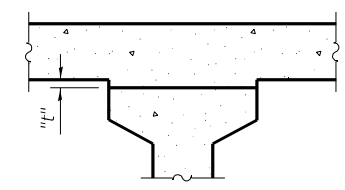


PLAN



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete, excluding beams).

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 07 thru 08 of 33.



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown on sheets 07 thru 08 of 33, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS

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USER NAME =	DESIGNED - ES	REVISED -
	CHECKED - MJW	REVISED -
PLOT SCALE =	DRAWN - ES	REVISED -
PLOT DATE =	CHECKED - MJW	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS LAYOUT
STRUCTURE NO. 101-0229**

SHEET 06 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	26
CONTRACT NO. 64P06				

ILLINOIS FED. AID PROJECT

East Edge of Deck

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	185+75.81	-21.46	745.15	745.15
CL Brg. N. Abut.	185+77.78	-21.50	745.16	745.16
A	185+87.84	-21.65	745.21	745.23
B	185+97.90	-21.78	745.27	745.29
C	186+07.96	-21.87	745.33	745.34
CL N. Brg. Pier 1	186+11.86	-21.90	745.35	745.35
CL Pier 1	186+12.99	-21.91	745.36	745.36
CL S. Brg. Pier 1	186+14.11	-21.92	745.37	745.37
D	186+24.18	-21.97	745.43	745.48
E	186+34.24	-22.00	745.49	745.58
F	186+44.30	-22.00	745.55	745.64
G	186+54.36	-21.97	745.61	745.66
CL N. Brg. Pier 2	186+62.92	-21.92	745.67	745.67
CL Pier 2	186+64.04	-21.91	745.68	745.68
CL S. Brg. Pier 2	186+65.17	-21.90	745.68	745.68
H	186+75.23	-21.82	745.75	745.77
I	186+85.29	-21.70	745.81	745.84
J	186+95.35	-21.56	745.88	745.89
CL Brg. S. Abut.	186+99.25	-21.50	745.91	745.91
Bk. S. Abut.	187+01.22	-21.46	745.92	745.92

East Face of Parapet

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	185+75.84	-20.05	745.07	745.07
CL Brg. N. Abut.	185+77.81	-20.08	745.08	745.08
A	185+87.86	-20.23	745.14	745.16
B	185+97.91	-20.36	745.20	745.22
C	186+07.97	-20.46	745.26	745.26
CL N. Brg. Pier 1	186+11.87	-20.49	745.28	745.28
CL Pier 1	186+13.00	-20.50	745.29	745.29
CL S. Brg. Pier 1	186+14.12	-20.50	745.29	745.29
D	186+24.18	-20.56	745.35	745.41
E	186+34.24	-20.58	745.42	745.51
F	186+44.30	-20.58	745.48	745.57
G	186+54.35	-20.55	745.54	745.59
CL N. Brg. Pier 2	186+62.91	-20.50	745.60	745.60
CL Pier 2	186+64.03	-20.50	745.60	745.60
CL S. Brg. Pier 2	186+65.16	-20.49	745.61	745.61
H	186+75.22	-20.40	745.68	745.69
I	186+85.27	-20.29	745.74	745.77
J	186+95.33	-20.14	745.81	745.82
CL Brg. S. Abut.	186+99.22	-20.08	745.84	745.84
Bk. S. Abut.	187+01.19	-20.05	745.85	745.85

Beam 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	185+75.87	-18.30	745.14	745.14
CL Brg. N. Abut.	185+77.83	-18.33	745.15	745.15
A	185+87.88	-18.48	745.21	745.23
B	185+97.93	-18.61	745.27	745.29
C	186+07.98	-18.71	745.32	745.33
CL N. Brg. Pier 1	186+11.88	-18.74	745.35	745.35
CL Pier 1	186+13.01	-18.75	745.35	745.35
CL S. Brg. Pier 1	186+14.13	-18.75	745.36	745.36
D	186+24.19	-18.81	745.42	745.48
E	186+34.24	-18.83	745.48	745.58
F	186+44.29	-18.83	745.54	745.63
G	186+54.35	-18.80	745.61	745.66
CL N. Brg. Pier 2	186+62.89	-18.75	745.66	745.66
CL Pier 2	186+64.02	-18.75	745.67	745.67
CL S. Brg. Pier 2	186+65.14	-18.74	745.68	745.68
H	186+75.20	-18.65	745.74	745.76
I	186+85.25	-18.54	745.81	745.83
J	186+95.30	-18.39	745.88	745.88
CL Brg. S. Abut.	186+99.19	-18.33	745.90	745.90
Bk. S. Abut.	187+01.16	-18.30	745.92	745.92

Beam 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	185+75.99	-10.88	745.42	745.42
CL Brg. N. Abut.	185+77.96	-10.92	745.43	745.43
A	185+87.99	-11.07	745.49	745.51
B	185+98.01	-11.19	745.55	745.57
C	186+08.04	-11.29	745.61	745.61
CL N. Brg. Pier 1	186+11.94	-11.32	745.63	745.63
CL Pier 1	186+13.06	-11.33	745.64	745.64
CL S. Brg. Pier 1	186+14.19	-11.34	745.64	745.64
D	186+24.22	-11.39	745.70	745.76
E	186+34.25	-11.41	745.76	745.86
F	186+44.28	-11.41	745.83	745.92
G	186+54.31	-11.38	745.89	745.94
CL N. Brg. Pier 2	186+62.84	-11.34	745.94	745.94
CL Pier 2	186+63.97	-11.33	745.95	745.95
CL S. Brg. Pier 2	186+65.09	-11.32	745.96	745.96
H	186+75.13	-11.23	746.02	746.04
I	186+85.16	-11.12	746.09	746.11
J	186+95.18	-10.98	746.16	746.17
CL Brg. S. Abut.	186+99.07	-10.92	746.18	746.18
Bk. S. Abut.	187+01.04	-10.88	746.20	746.20

Beam 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	185+76.12	-3.47	745.71	745.71
CL Brg. N. Abut.	185+78.08	-3.50	745.72	745.72
A	185+88.09	-3.65	745.77	745.79
B	185+98.10	-3.78	745.83	745.85
C	186+08.11	-3.87	745.89	745.90
CL N. Brg. Pier 1	186+11.99	-3.90	745.91	745.91
CL Pier 1	186+13.11	-3.91	745.92	745.92
CL S. Brg. Pier 1	186+14.24	-3.92	745.92	745.92
D	186+24.25	-3.97	745.99	746.05
E	186+34.26	-4.00	746.05	746.15
F	186+44.27	-4.00	746.11	746.20
G	186+54.28	-3.97	746.17	746.22
CL N. Brg. Pier 2	186+62.79	-3.92	746.23	746.23
CL Pier 2	186+63.92	-3.91	746.23	746.23
CL S. Brg. Pier 2	186+65.04	-3.90	746.24	746.24
H	186+75.05	-3.82	746.31	746.32
I	186+85.06	-3.70	746.37	746.40
J	186+95.07	-3.56	746.44	746.45
CL Brg. S. Abut.	186+98.95	-3.50	746.47	746.47
Bk. S. Abut.	187+00.91	-3.50	746.48	746.48

Proposed Springfield Ave. & PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	185+76.18	0.00	745.84	745.84
CL Brg. N. Abut.	185+78.14	0.00	745.85	745.85
A	185+88.14	0.00	745.91	745.93
B	185+98.14	0.00	745.97	746.00
C	186+08.14	0.00	746.04	746.04
CL N. Brg. Pier 1	186+12.02	0.00	746.06	746.06
CL Pier 1	186+13.14	0.00	746.07	746.07
CL S. Brg. Pier 1	186+14.27	0.00	746.07	746.07
D	186+24.27	0.00	746.14	746.20
E	186+34.27	0.00	746.20	746.30
F	186+44.27	0.00	746.26	746.36
G	186+54.27	0.00	746.32	746.37
CL N. Brg. Pier 2	186+62.77	0.00	746.37	746.37
CL Pier 2	186+63.89	0.00	746.38	746.38
CL S. Brg. Pier 2	186+65.02	0.00	746.39	746.39
H	186+75.02	0.00	746.45	746.47
I	186+85.02	0.00	746.51	746.54
J	186+95.02	0.00	746.57	746.58
CL Brg. S. Abut.	186+98.89	0.00	746.60	746.60
Bk. S. Abut.	187+00.85	0.00	746.61	746.61

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS I
STRUCTURE NO. 101-0229

SHEET 07 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	27
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				

Beam 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	185+76.25	3.95	745.99	745.99
CL Brg. N. Abut.	185+78.20	3.92	746.00	746.00
A	185+88.19	3.76	746.06	746.07
B	185+98.18	3.64	746.11	746.14
C	186+08.17	3.54	746.17	746.18
CL N. Brg. Pier 1	186+12.04	3.51	746.19	746.19
CL Pier 1	186+13.16	3.51	746.20	746.20
CL S. Brg. Pier 1	186+14.29	3.50	746.21	746.21
D	186+24.28	3.44	746.27	746.33
E	186+34.27	3.42	746.33	746.43
F	186+44.26	3.42	746.39	746.49
G	186+54.25	3.45	746.45	746.51
CL N. Brg. Pier 2	186+62.74	3.50	746.51	746.51
CL Pier 2	186+63.87	3.51	746.51	746.51
CL S. Brg. Pier 2	186+64.99	3.51	746.52	746.52
H	186+74.98	3.60	746.59	746.61
I	186+84.97	3.71	746.65	746.68
J	186+94.96	3.85	746.72	746.73
CL Brg. S. Abut.	186+98.83	3.92	746.75	746.75
Bk. S. Abut.	187+00.78	3.95	746.76	746.76

Beam 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	185+76.37	11.36	746.27	746.27
CL Brg. N. Abut.	185+78.33	11.33	746.28	746.28
A	185+88.29	11.18	746.34	746.36
B	185+98.26	11.06	746.40	746.42
C	186+08.23	10.96	746.45	746.46
CL N. Brg. Pier 1	186+12.09	10.93	746.48	746.48
CL Pier 1	186+13.22	10.92	746.48	746.48
CL S. Brg. Pier 1	186+14.34	10.91	746.49	746.49
D	186+24.31	10.86	746.55	746.61
E	186+34.28	10.84	746.61	746.71
F	186+44.25	10.84	746.67	746.77
G	186+54.22	10.87	746.73	746.79
CL N. Brg. Pier 2	186+62.69	10.91	746.79	746.79
CL Pier 2	186+63.81	10.92	746.80	746.80
CL S. Brg. Pier 2	186+64.94	10.93	746.80	746.80
H	186+74.91	11.02	746.87	746.89
I	186+84.87	11.13	746.93	746.96
J	186+94.84	11.27	747.00	747.01
CL Brg. S. Abut.	186+98.70	11.33	747.03	747.03
Bk. S. Abut.	187+00.66	11.36	747.04	747.04

Beam 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	185+76.50	18.78	746.55	746.55
CL Brg. N. Abut.	185+78.45	18.75	746.56	746.56
A	185+88.40	18.60	746.62	746.64
B	185+98.34	18.47	746.68	746.70
C	186+08.29	18.38	746.74	746.74
CL N. Brg. Pier 1	186+12.14	18.35	746.76	746.76
CL Pier 1	186+13.27	18.34	746.76	746.76
CL S. Brg. Pier 1	186+14.39	18.33	746.77	746.77
D	186+24.34	18.28	746.83	746.89
E	186+34.29	18.25	746.89	746.98
F	186+44.24	18.25	746.95	747.04
G	186+54.19	18.28	747.02	747.06
CL N. Brg. Pier 2	186+62.64	18.33	747.07	747.07
CL Pier 2	186+63.76	18.34	747.08	747.08
CL S. Brg. Pier 2	186+64.89	18.35	747.09	747.09
H	186+74.83	18.43	747.15	747.17
I	186+84.78	18.54	747.22	747.24
J	186+94.73	18.69	747.28	747.29
CL Brg. S. Abut.	186+98.58	18.75	747.31	747.31
Bk. S. Abut.	187+00.53	18.78	747.32	747.32

West Face of Parapet

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	185+76.53	20.53	746.62	746.62
CL Brg. N. Abut.	185+78.48	20.50	746.63	746.63
A	185+88.42	20.35	746.69	746.71
B	185+98.36	20.22	746.74	746.77
C	186+08.31	20.13	746.80	746.81
CL N. Brg. Pier 1	186+12.16	20.10	746.82	746.82
CL Pier 1	186+13.28	20.09	746.83	746.83
CL S. Brg. Pier 1	186+14.41	20.08	746.84	746.84
D	186+24.34	20.03	746.90	746.95
E	186+34.29	20.00	746.96	747.05
F	186+44.23	20.00	747.02	747.11
G	186+54.18	20.03	747.08	747.13
CL N. Brg. Pier 2	186+62.63	20.08	747.14	747.14
CL Pier 2	186+63.75	20.09	747.14	747.14
CL S. Brg. Pier 2	186+64.88	20.10	747.15	747.15
H	186+74.81	20.18	747.22	747.23
I	186+84.76	20.29	747.28	747.30
J	186+94.70	20.43	747.35	747.36
CL Brg. S. Abut.	186+98.55	20.50	747.38	747.38
Bk. S. Abut.	187+00.50	20.53	747.39	747.39

West Edge of Deck

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	185+76.56	21.95	746.80	746.80
CL Brg. N. Abut.	185+78.50	21.91	746.81	746.81
A	185+88.44	21.76	746.87	746.88
B	185+98.38	21.64	746.92	746.94
C	186+08.32	21.54	746.98	746.99
CL N. Brg. Pier 1	186+12.17	21.51	747.00	747.00
CL Pier 1	186+13.29	21.51	747.01	747.01
CL S. Brg. Pier 1	186+14.42	21.50	747.02	747.02
D	186+24.35	21.44	747.08	747.13
E	186+34.29	21.42	747.14	747.23
F	186+44.23	21.42	747.20	747.29
G	186+54.17	21.45	747.26	747.31
CL N. Brg. Pier 2	186+62.62	21.50	747.32	747.32
CL Pier 2	186+63.74	21.51	747.32	747.32
CL S. Brg. Pier 2	186+64.87	21.51	747.33	747.33
H	186+74.80	21.60	747.40	747.41
I	186+84.74	21.71	747.46	747.48
J	186+94.68	21.85	747.53	747.54
CL Brg. S. Abut.	186+98.53	21.91	747.55	747.55
Bk. S. Abut.	187+00.48	21.95	747.57	747.57

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DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS II
STRUCTURE NO. 101-0229

SHEET 08 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	28
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				

East Edge of Shoulder

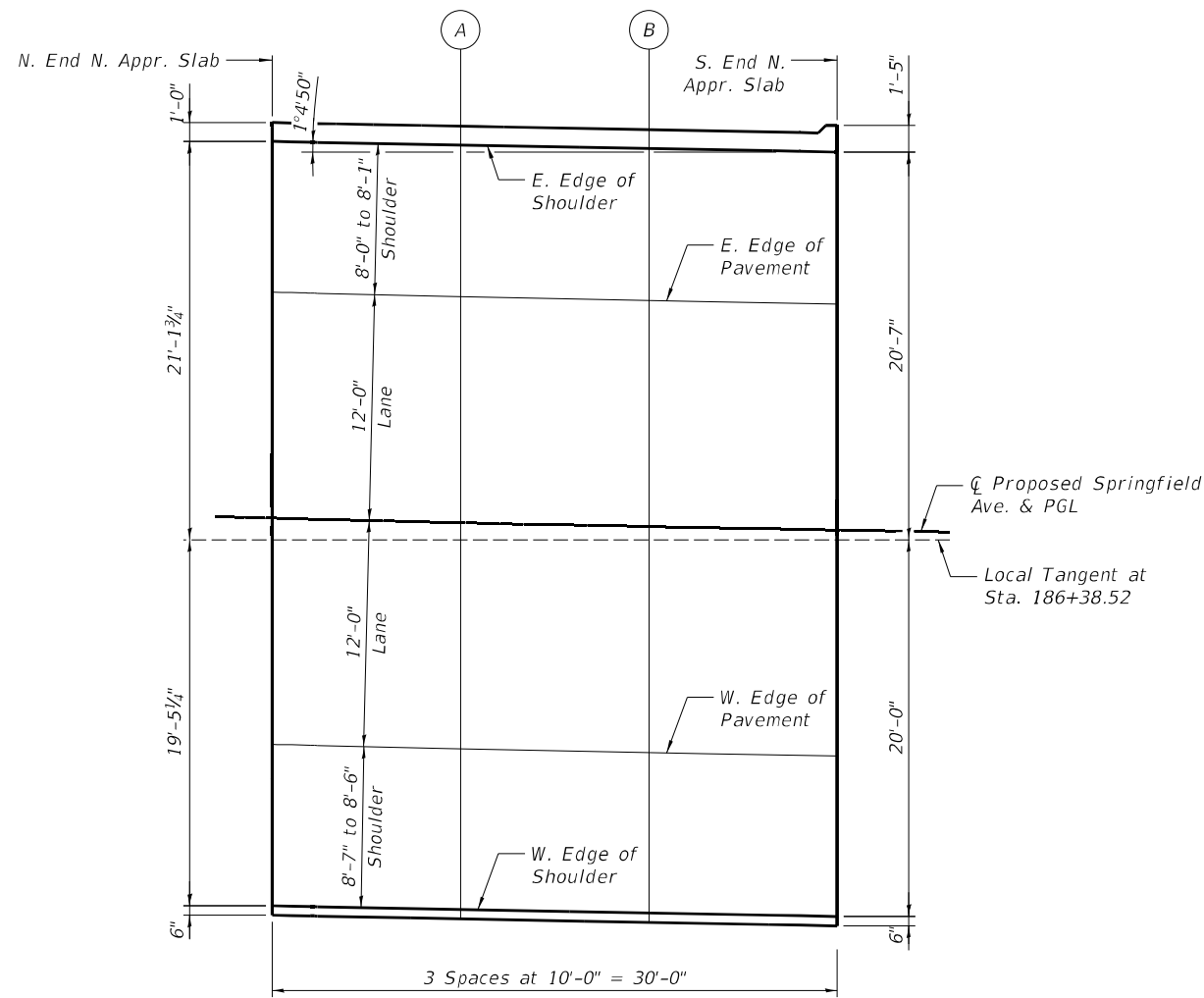
Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Slab	185+46.68	-20.00	744.90
A	185+56.73	-20.05	744.96
B	185+66.79	-20.07	745.02
S. End N. Appr. Slab	185+76.84	-20.07	745.08

East Edge of Pavement

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Slab	185+46.88	-12.00	745.20
A	185+56.91	-12.00	745.26
B	185+66.95	-12.00	745.32
S. End N. Appr. Slab	185+76.98	-12.00	745.39

℄ Proposed Springfield Ave. & PGL

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Slab	185+47.18	0.00	745.66
A	185+57.18	0.00	745.72
B	185+67.18	0.00	745.78
S. End N. Appr. Slab	185+77.18	0.00	745.84



NORTH APPROACH PLAN

West Edge of Pavement

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Slab	185+47.48	12.00	746.12
A	185+57.45	12.00	746.18
B	185+67.41	12.00	746.24
S. End N. Appr. Slab	185+77.38	12.00	746.30

West Edge of Shoulder

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Slab	185+47.69	20.57	746.44
A	185+57.64	20.52	746.50
B	185+67.58	20.50	746.56
S. End N. Appr. Slab	185+77.52	20.51	746.63

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TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 101-0229

SHEET 09 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	29
CONTRACT NO. 64P06				

ILLINOIS FED. AID PROJECT

East Edge of Shoulder

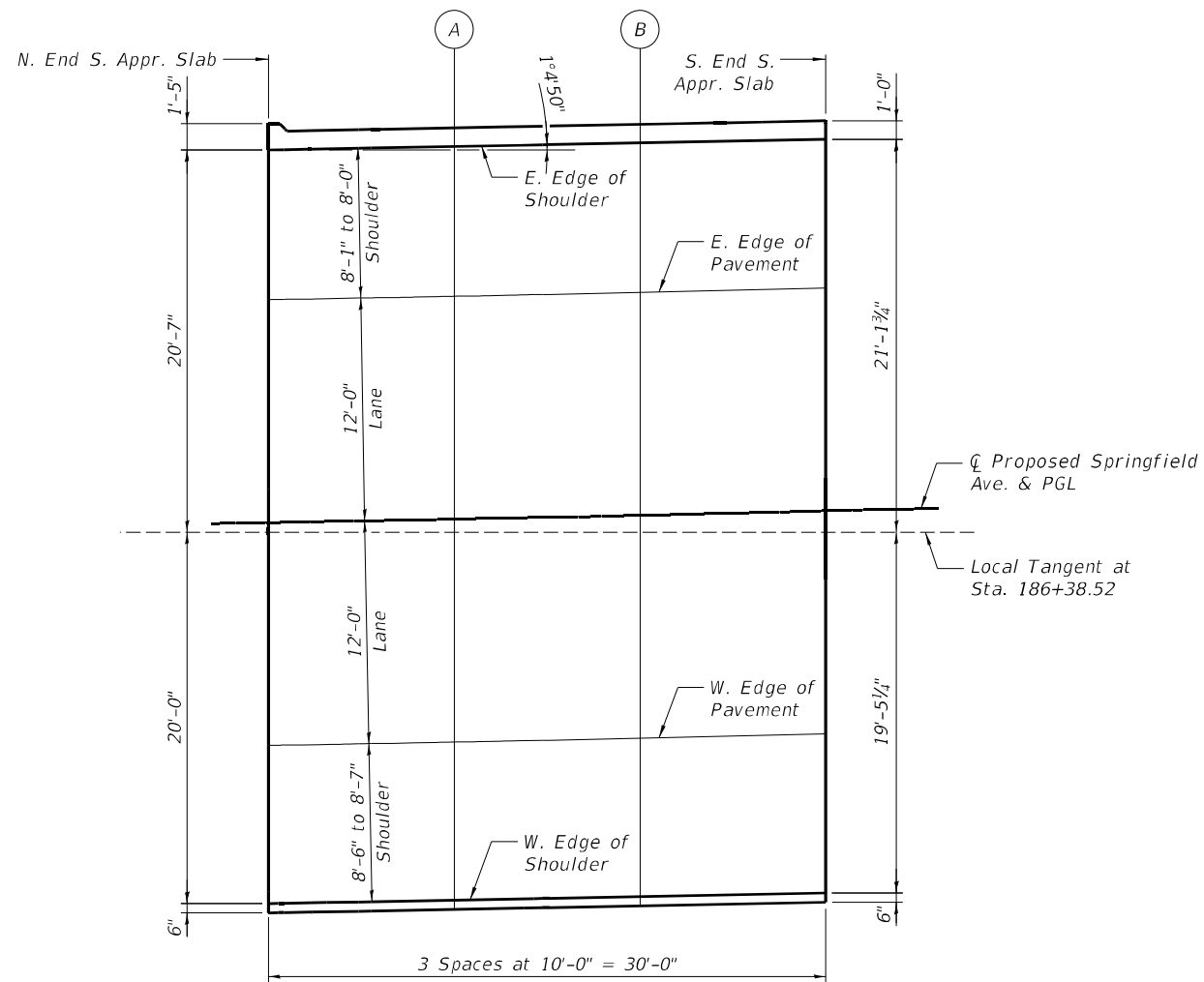
Location	Station	Offset	Theoretical Grade Elevations
N. End S. Appr. Slab	187+00.19	-20.07	745.84
A	187+10.24	-20.07	745.91
B	187+20.30	-20.05	745.97
S. End S. Appr. Slab	187+30.35	-20.00	746.03

East Edge of Pavement

Location	Station	Offset	Theoretical Grade Elevations
N. End S. Appr. Slab	187+00.05	-12.00	746.15
A	187+10.08	-12.00	746.21
B	187+20.12	-12.00	746.27
S. End S. Appr. Slab	187+30.15	-12.00	746.34

℄ Proposed Springfield Ave. & PGL

Location	Station	Offset	Theoretical Grade Elevations
N. End S. Appr. Slab	186+99.85	0.00	746.60
A	187+09.85	0.00	746.67
B	187+19.85	0.00	746.73
S. End S. Appr. Slab	187+29.85	0.00	746.79



SOUTH APPROACH PLAN

West Edge of Pavement

Location	Station	Offset	Theoretical Grade Elevations
N. End S. Appr. Slab	186+99.65	12.00	747.06
A	187+09.62	12.00	747.12
B	187+19.58	12.00	747.18
S. End S. Appr. Slab	187+29.55	12.00	747.24

West Edge of Shoulder

Location	Station	Offset	Theoretical Grade Elevations
N. End S. Appr. Slab	186+99.51	20.51	747.38
A	187+09.45	20.50	747.44
B	187+19.39	20.52	747.51
S. End S. Appr. Slab	187+29.34	20.57	747.57

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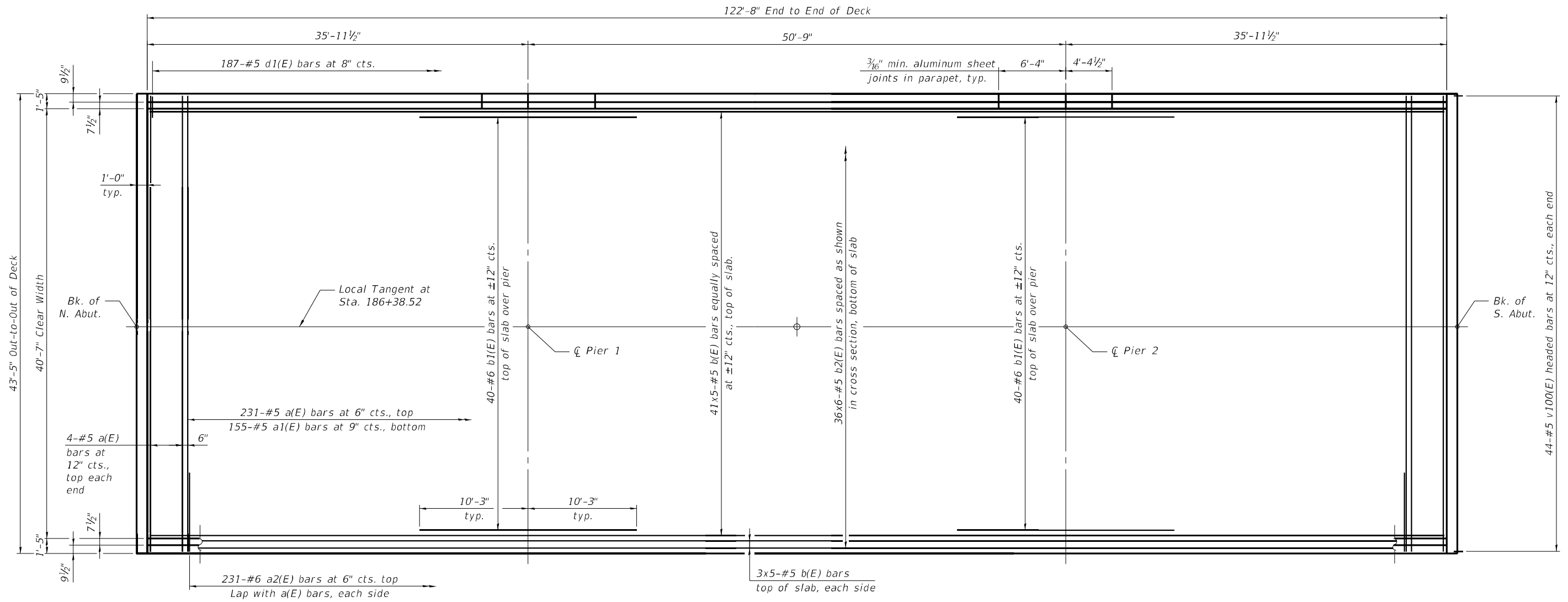
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DEPARTMENT OF TRANSPORTATION

TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 101-0229

SHEET 10 OF 33 SHEETS

F.A.P. RTE. 525	SECTION 111BR	COUNTY WINNEBAGO	TOTAL SHEETS 80	SHEET NO. 30
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				



PLAN

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



Notes:
See sheet 12 of 33 for cross section.
See sheet 13 of 33 for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

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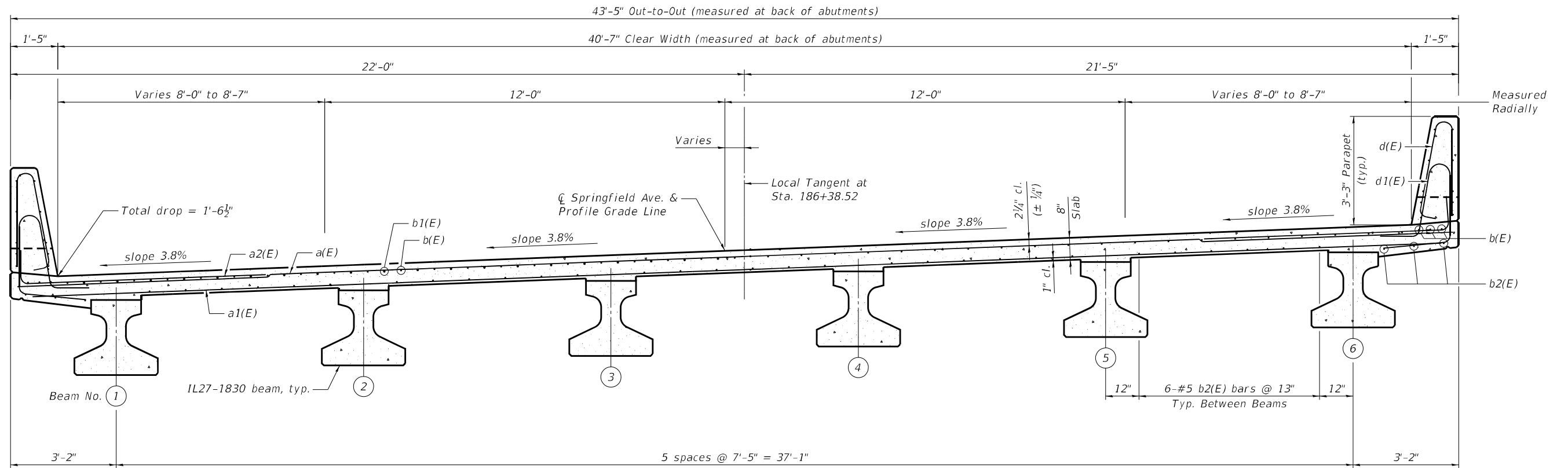
SUPERSTRUCTURE PLAN
STRUCTURE NO. 101-0229

SHEET 11 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	31
CONTRACT NO. 64P06				

ILLINOIS FED. AID PROJECT

Notes:
See sheet 13 of 33 for superstructure details and Bill of Material.



NEAR PIER

CROSS SECTION

(Looking South)
Measured perpendicular to Local Tangent

NEAR MIDSPAN

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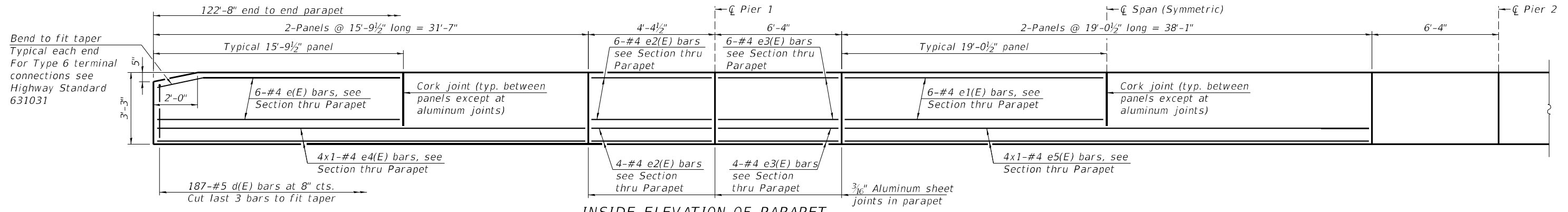
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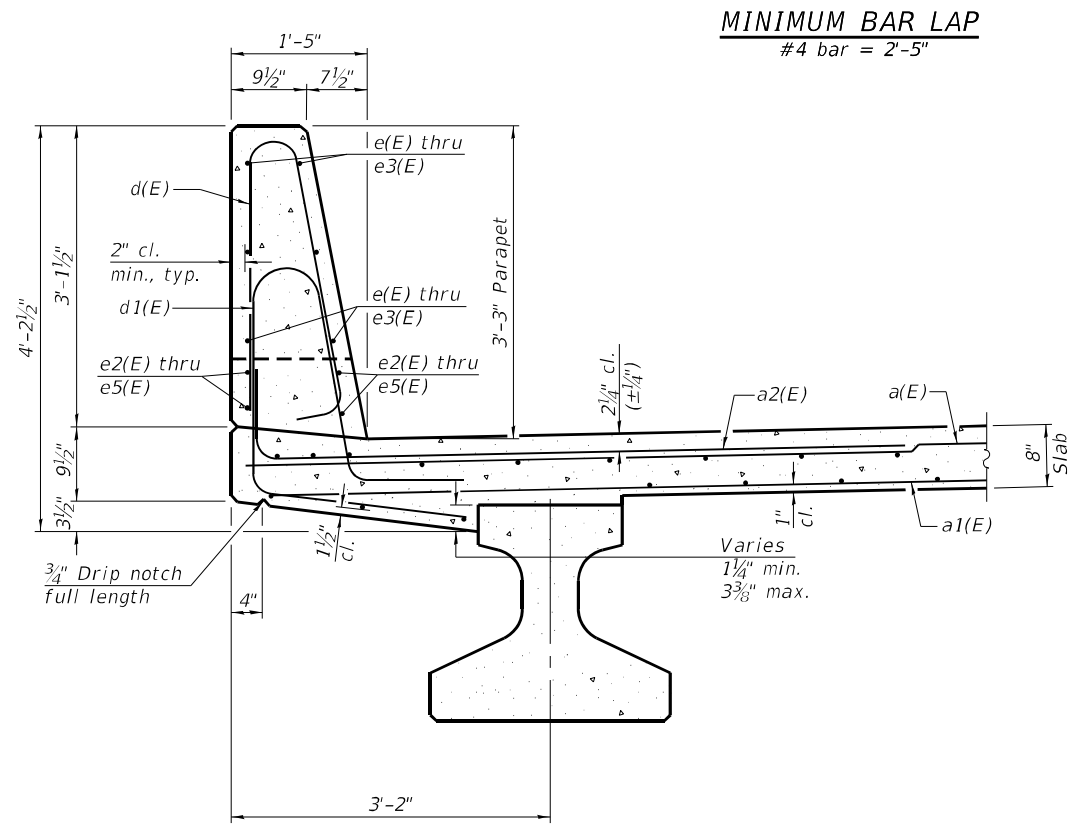
SUPERSTRUCTURE CROSS SECTION
STRUCTURE NO. 101-0229

SHEET 12 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	32
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				

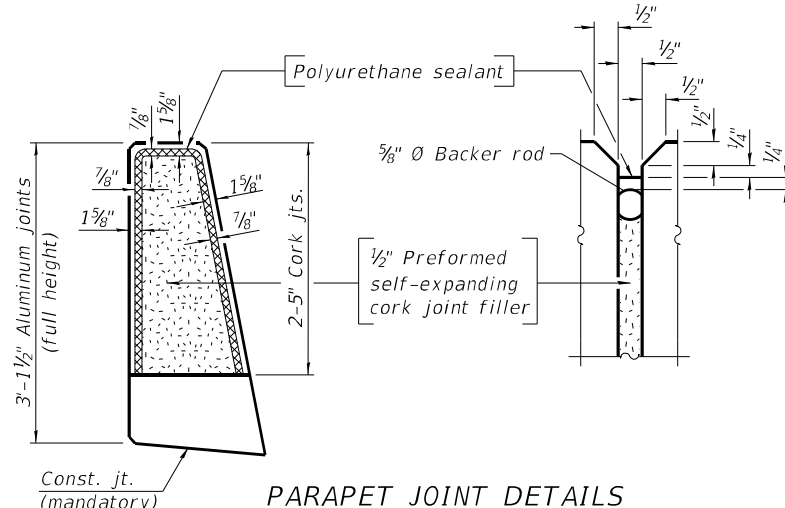


INSIDE ELEVATION OF PARAPET
(Looking East)



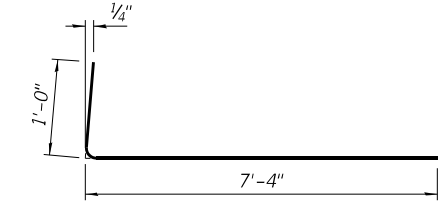
SECTION THRU PARAPET

MINIMUM BAR LAP
#4 bar = 2'-5"

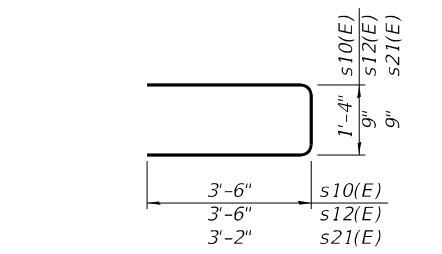


PARAPET JOINT DETAILS

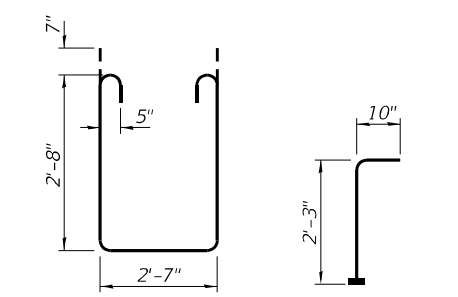
Notes:
The 3/16" min. aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated with 5 mils of either bitumen paint or epoxy paint to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
Bar terminators, paid for separately. See Total Bill of Material.



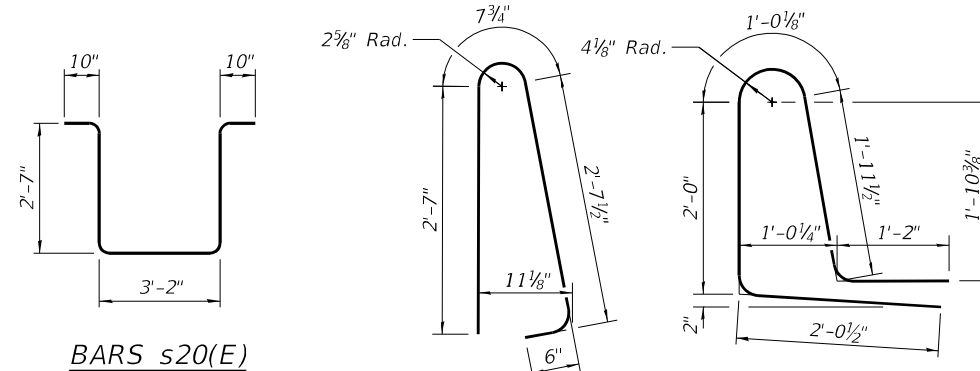
BAR a2(E)



BARS s10(E), s12(E) & s21(E)



BAR s11(E) BAR v100(E)
(Headed. 88-#5 Bar terminators)



BARS s20(E)

BAR d(E)

BAR d1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	239	#5	43'-1"	—
a1(E)	155	#5	42'-3"	—
a2(E)	462	#5	8'-4"	—
b(E)	235	#5	27'-3"	—
b1(E)	80	#6	20'-6"	—
b2(E)	216	#5	23'-4"	—
d(E)	374	#5	6'-4"	—
d1(E)	374	#5	8'-2"	—
e(E)	48	#4	15'-5"	—
e1(E)	24	#4	18'-8"	—
e2(E)	40	#4	4'-0"	—
e3(E)	40	#4	6'-0"	—
e4(E)	16	#4	31'-3"	—
e5(E)	8	#4	37'-9"	—
m10(E)	16	#6	23'-7"	—
m11(E)	20	#6	6'-3"	—
m12(E)	8	#6	2'-5"	—
m13(E)	10	#6	4'-7"	—
m14(E)	4	#6	1'-7"	—
m15(E)	24	#5	4'-0"	—
m20(E)	20	#6	4'-7"	—
m21(E)	40	#6	6'-3"	—
m22(E)	24	#5	4'-0"	—
s10(E)	72	#5	8'-4"	—
s11(E)	72	#5	9'-1"	—
s12(E)	48	#5	7'-9"	—
s20(E)	60	#5	10'-0"	—
s21(E)	40	#5	7'-1"	—
v100(E)	88	#5	3'-1"	—
Reinforcement Bars, Epoxy Coated		Pound	47,720	
Concrete Superstructure		Cu. Yds.	214.0	

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

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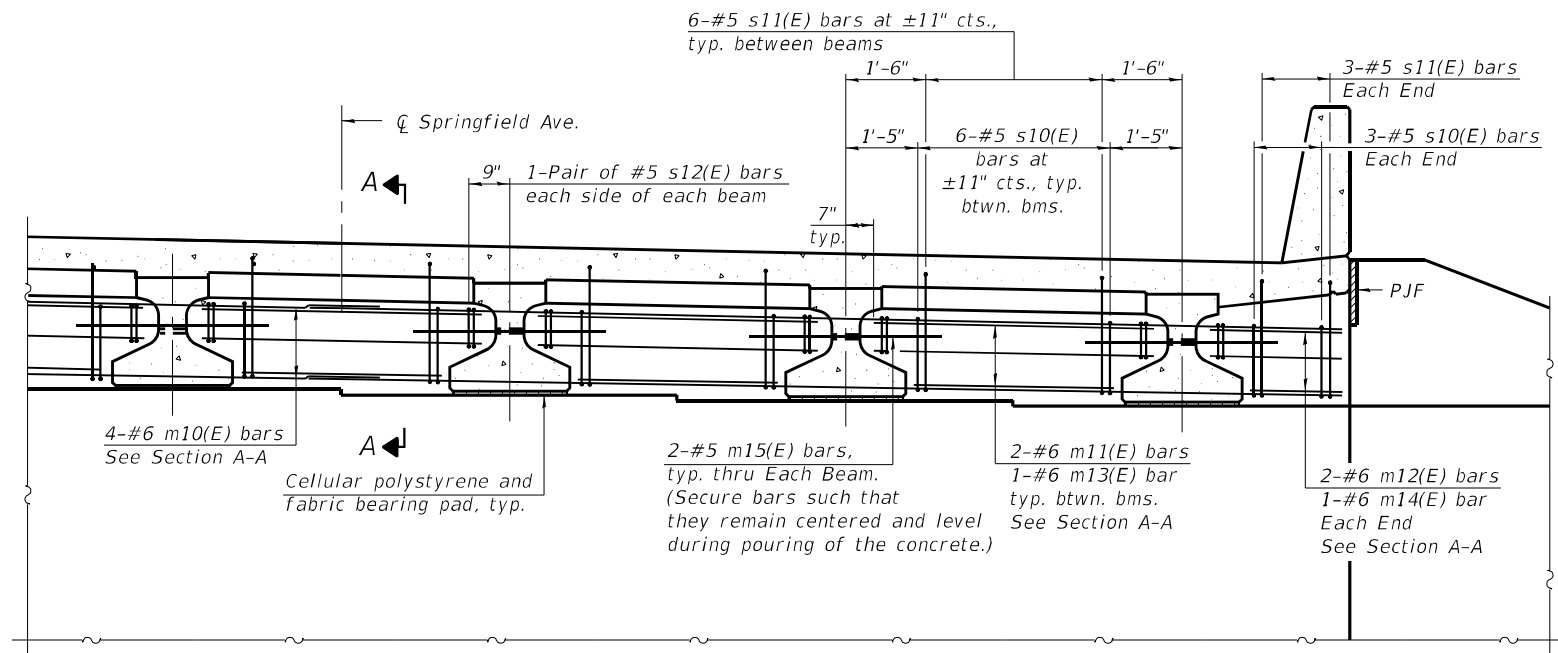
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PLOT SCALE =	CHECKED - ES	REVISED -
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

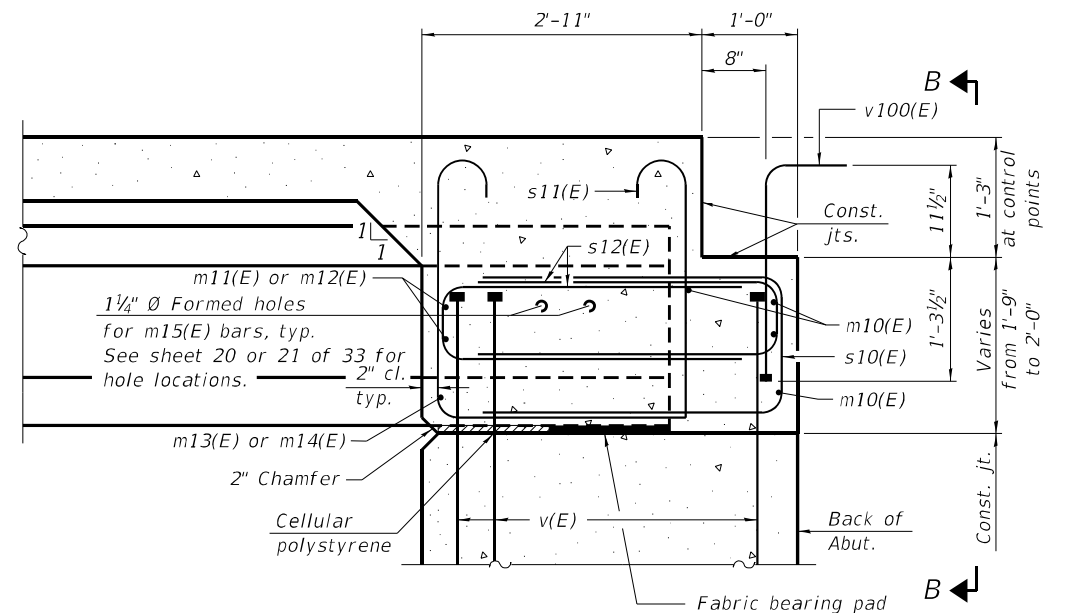
SUPERSTRUCTURE DETAILS STRUCTURE NO. 101-0229

SHEET 13 OF 33 SHEETS

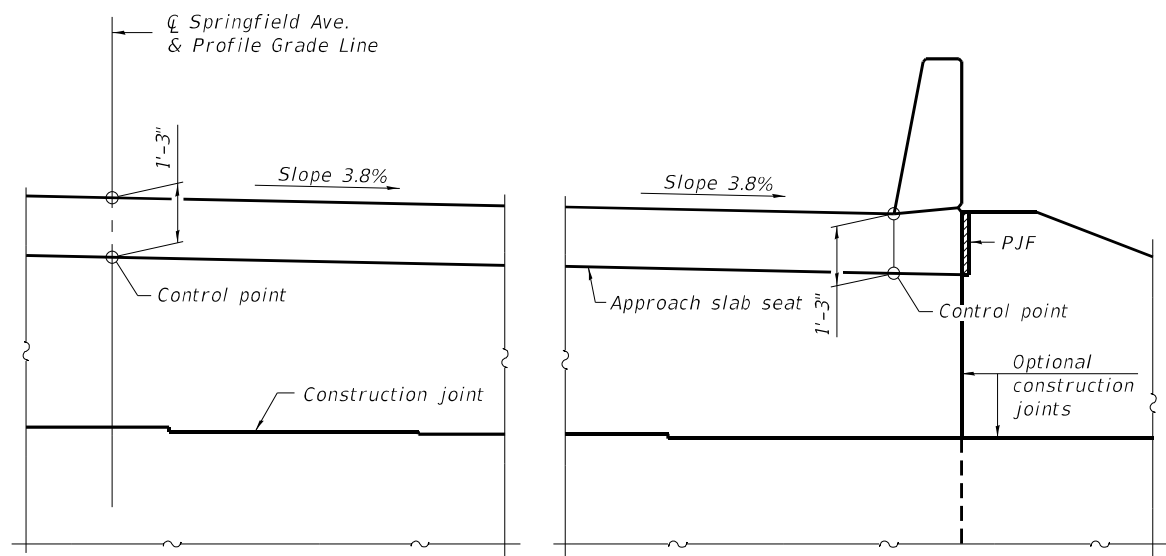
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	33
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				



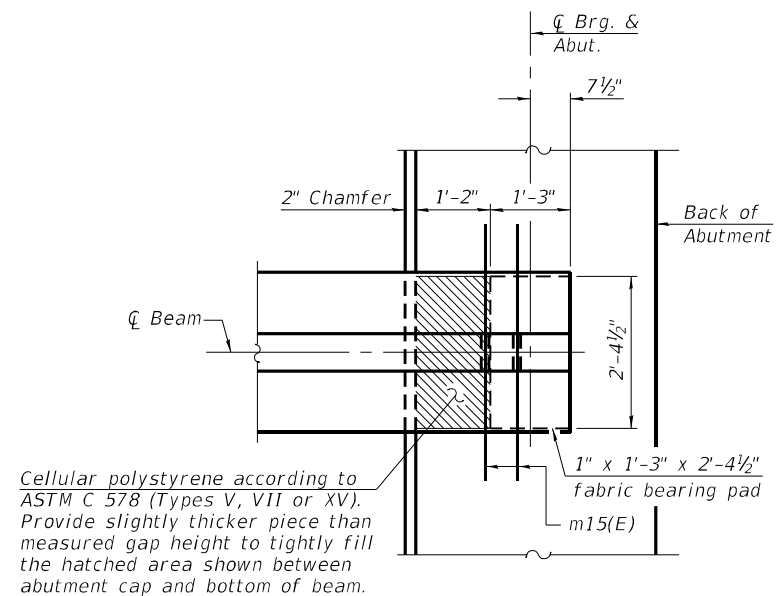
DIAPHRAGM AT ABUTMENT



SECTION A-A



VIEW B-B



PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
 See sheet 13 of 33 for superstructure details and Bill of Material.
 See sheet 16 or 17 of 33 for P.J.F. details.
 The approach slab seat shall have a constant slope determined from the control points shown.
 Cost of cellular polystyrene is included with Concrete Superstructure.

MODEL: Default
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DIA-IL27-0

6-15-2019



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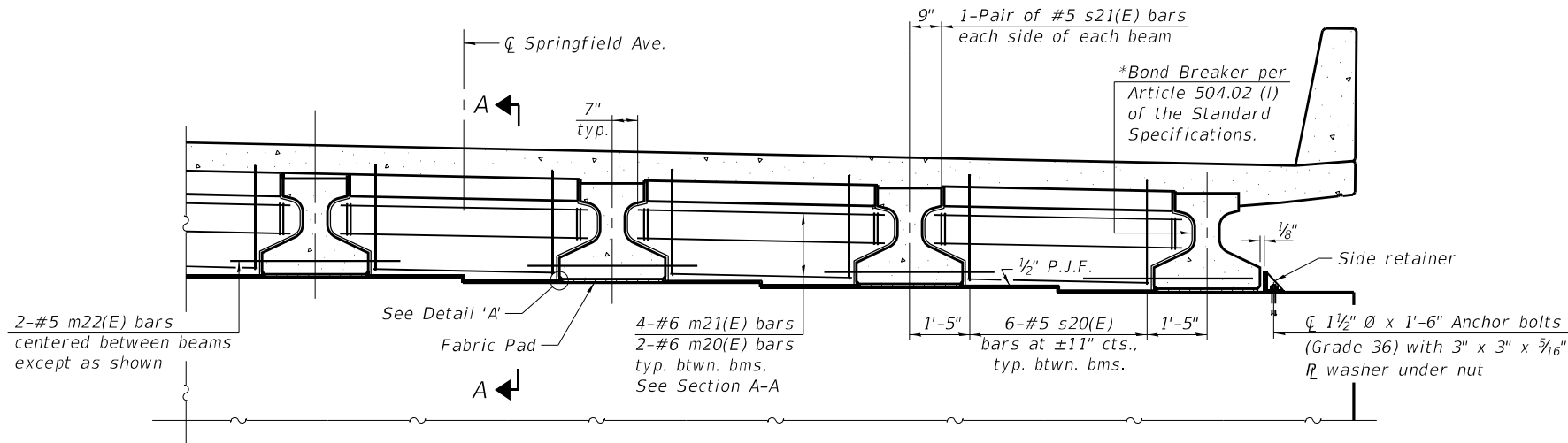
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ABUTMENT DIAPHRAGM DETAILS
 STRUCTURE NO. 101-0229**

SHEET 14 OF 33 SHEETS

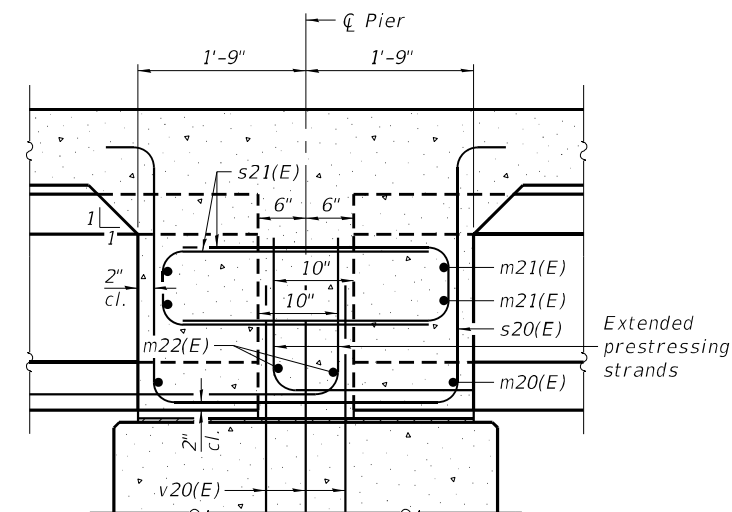
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	34
CONTRACT NO. 64P06				

ILLINOIS FED. AID PROJECT

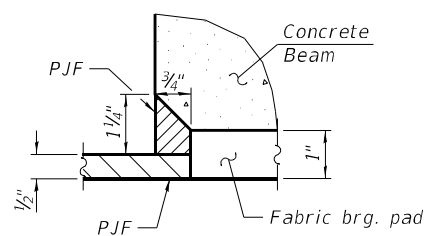


DIAPHRAGM AT PIER

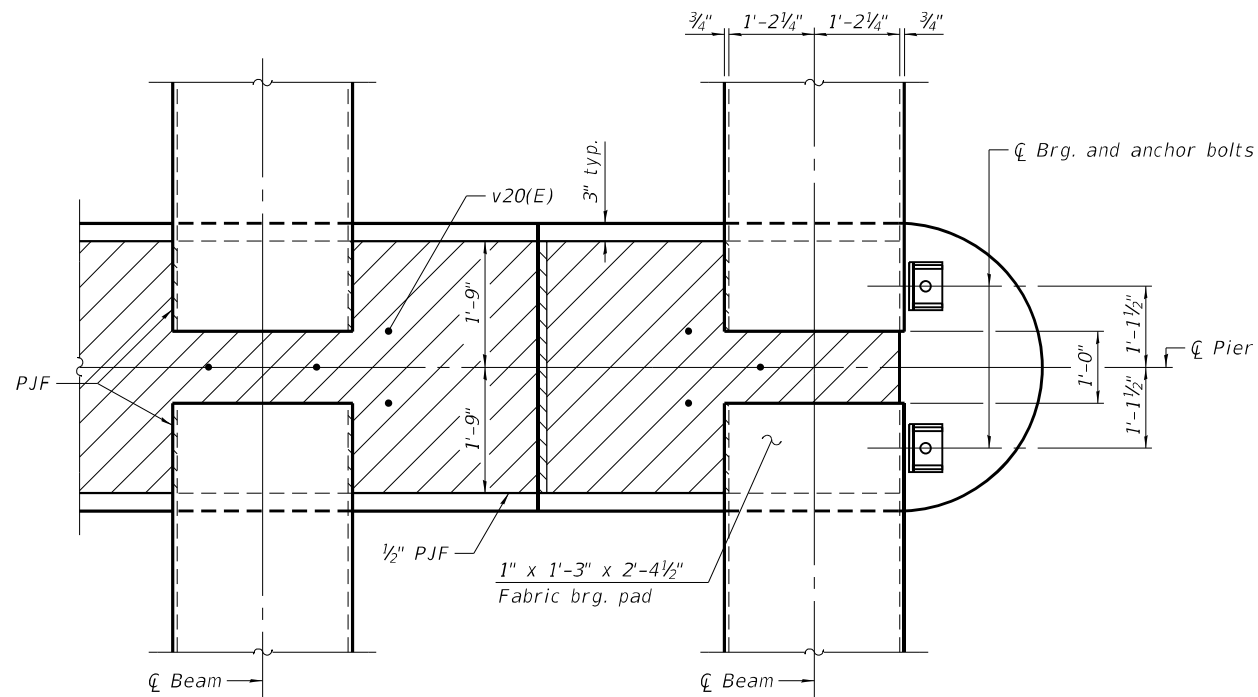
*Bonded to sides of beams embedded into diaphragm.



SECTION A-A

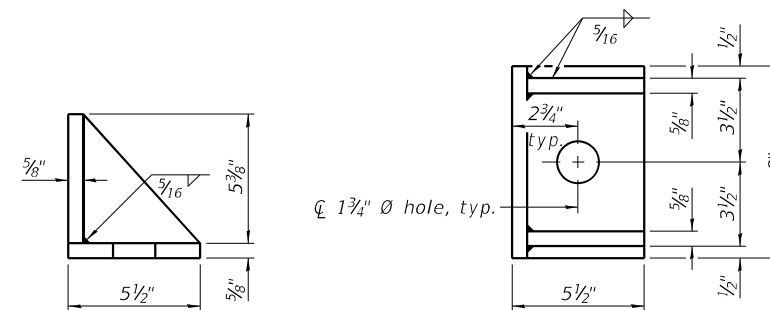


DETAIL 'A'



PLAN AT PIER

(Showing bearing pads and P.J.F. details)



SIDE RETAINER

(2 required each side of pier).
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

Notes:

- See sheet 13 of 33 for superstructure details and Bill of Material.
- Cost of side retainer and anchor bolts shall be included with Concrete Structures.
- Anchor bolts and side retainers shall be according to Article 521.06 of the Standard Specifications. Side retainers shall be hot dip galvanized.
- Anchor bolts and side retainers shall be installed as each exterior beam is erected unless an equivalent temporary means of lateral restraint is used.

MODEL: Default
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

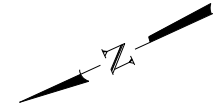
**PIER DIAPHRAGM DETAILS
STRUCTURE NO. 101-0229**

SHEET 15 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	35
CONTRACT NO. 64P06				

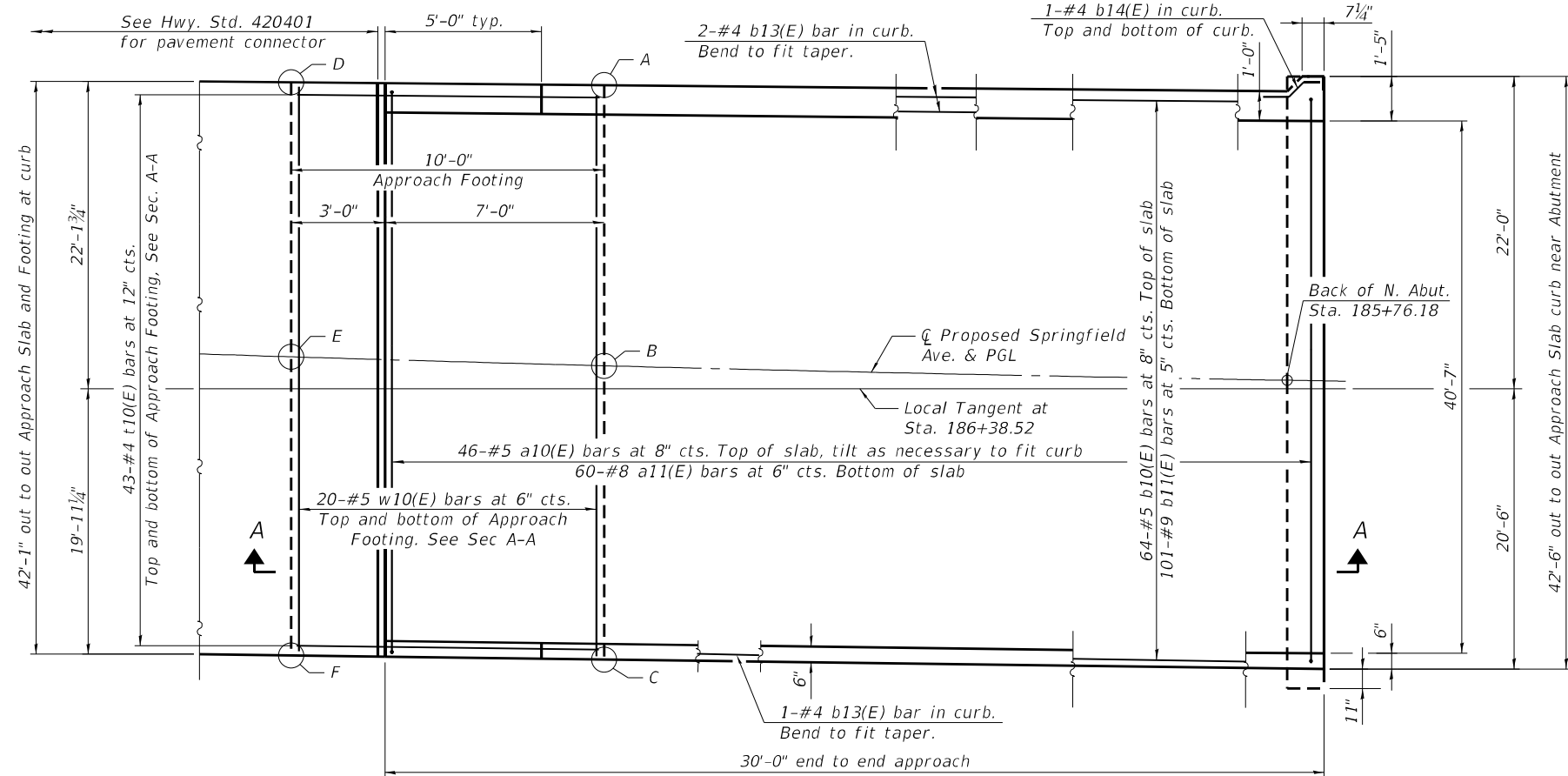
ILLINOIS FED. AID PROJECT

Notes:
See sheet 18 of 33 for Section A-A

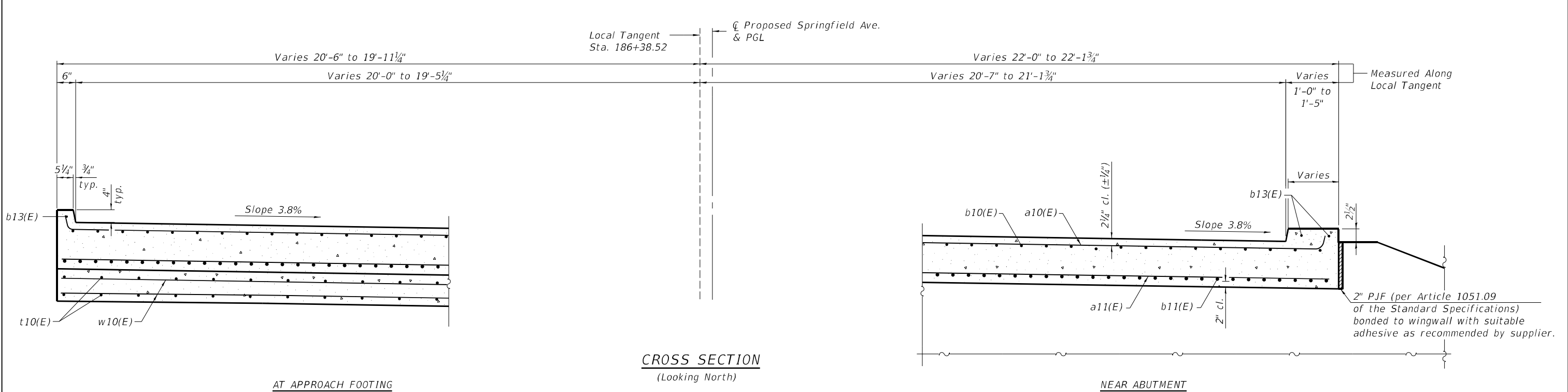


**TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

Point/ Location	Approach	
	Top	Bottom
A - SE	743.65	742.82
B - S \bar{C}	744.45	743.62
C - SW	745.25	744.42
D - NE	743.59	742.76
E - N \bar{C}	744.39	743.56
F - NW	745.19	744.36



NORTH APPROACH - PLAN



AT APPROACH FOOTING

**CROSS SECTION
(Looking North)**

NEAR ABUTMENT

MODEL: Default
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**STATE OF ILLINOIS
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**NORTH APPROACH SLAB PLAN
STRUCTURE NO. 101-0229**

SHEET 16 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	36
CONTRACT NO. 64P06				

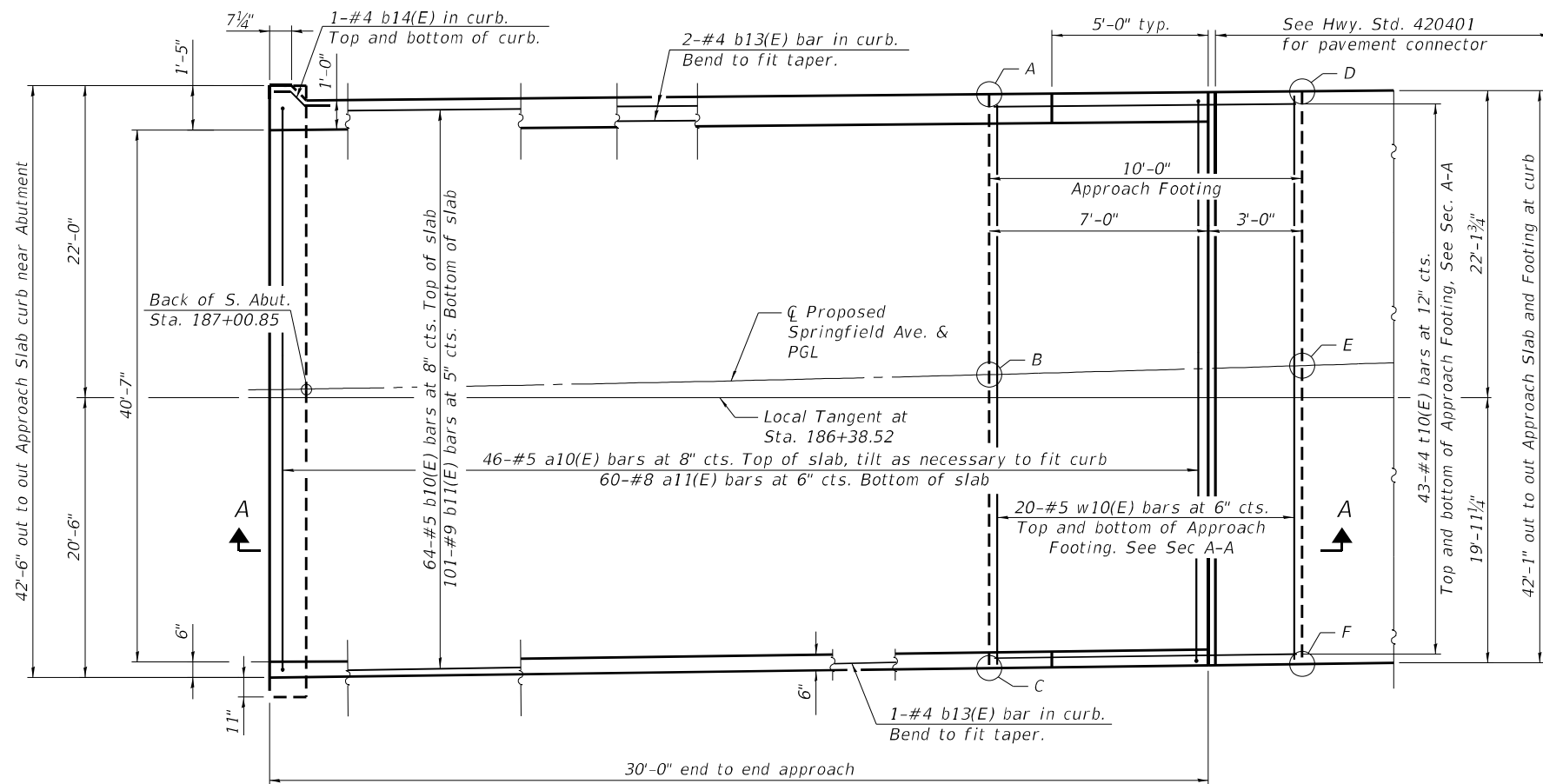
ILLINOIS FED. AID PROJECT

Notes:
See sheet 18 of 33 for Section A-A

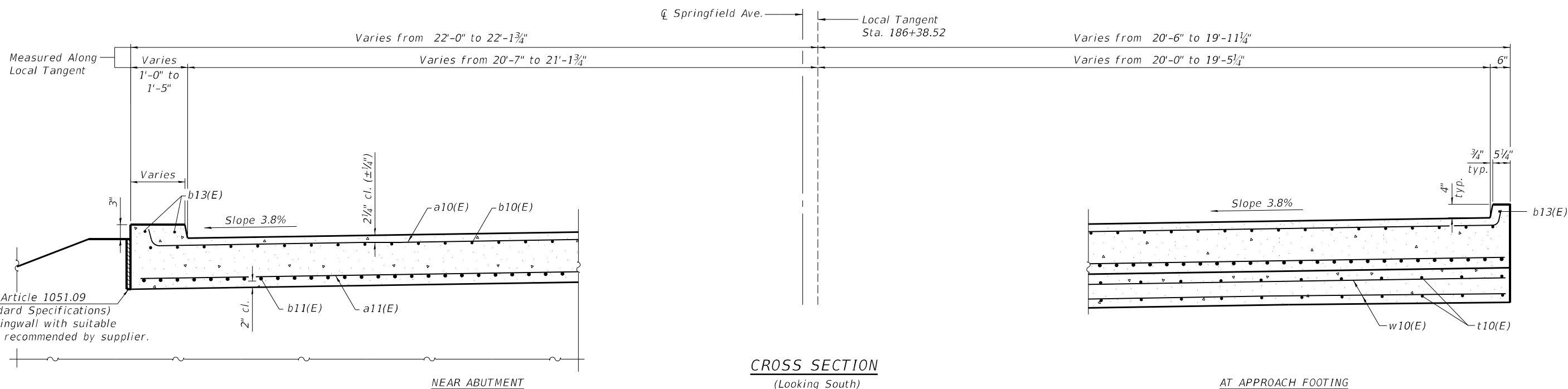


**TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

Point/ Location	Approach	
	Top	Bottom
A - NE	744.70	743.87
B - N \bar{C}	745.50	744.66
C - NW	746.29	745.46
D - SE	744.77	743.93
E - S \bar{C}	745.56	744.73
F - SW	746.36	745.52



SOUTH APPROACH - PLAN



**CROSS SECTION
(Looking South)**

AT APPROACH FOOTING

MODEL: Default
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DEPARTMENT OF TRANSPORTATION**

**SOUTH APPROACH SLAB PLAN
STRUCTURE NO. 101-0229**

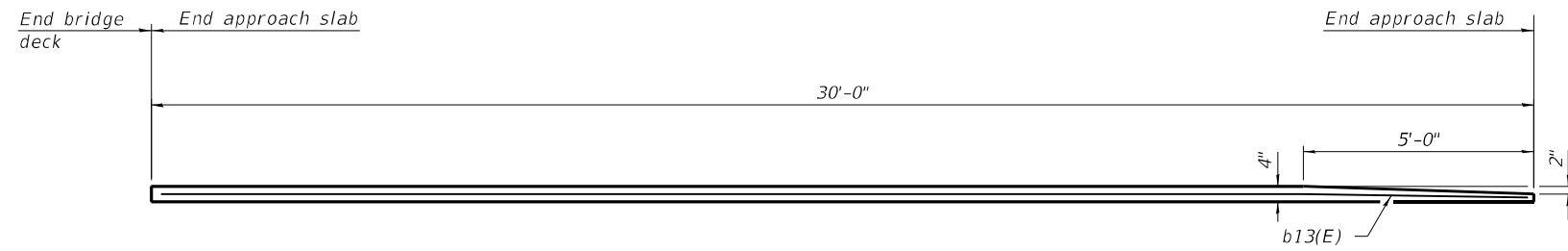
SHEET 17 OF 33 SHEETS

F.A.P. RTE. 525	SECTION 111BR	COUNTY WINNEBAGO	TOTAL SHEETS 80	SHEET NO. 37
CONTRACT NO. 64P06				

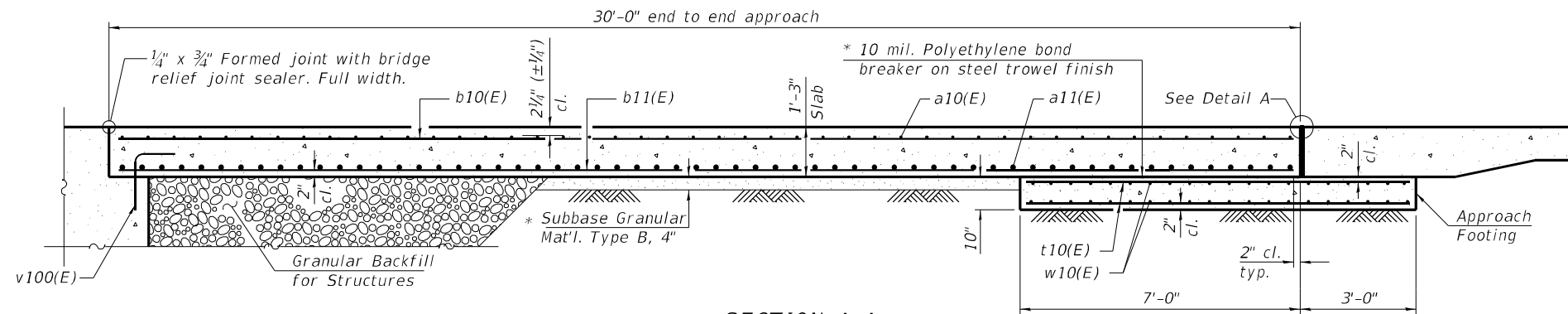
ILLINOIS FED. AID PROJECT

Notes:

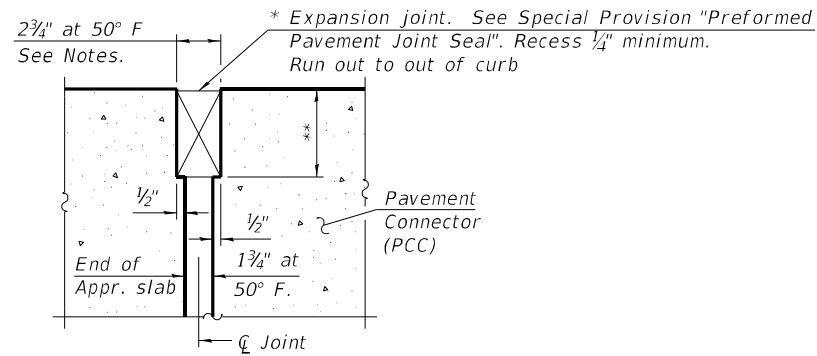
The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 33.



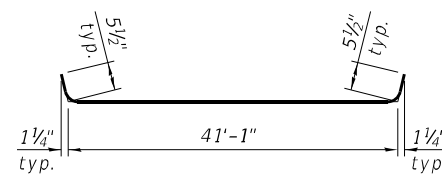
INSIDE ELEVATION OF CURB



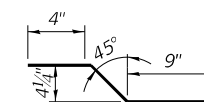
SECTION A-A



DETAIL A



BAR a10(E)



BAR b14(E)

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	92	#5	42'-0"	U
a11(E)	120	#8	41'-9"	—
b10(E)	128	#5	29'-8"	—
b11(E)	202	#9	29'-8"	—
b13(E)	6	#4	28'-8"	—
b14(E)	4	#4	1'-7"	~
t10(E)	172	#4	9'-8"	—
w10(E)	80	#5	41'-9"	—
Concrete Superstructure (Approach Slab)			Cu. Yd.	118.4
Concrete Structures			Cu. Yd.	26.0
Reinforcement Bars, Epoxy Coated			Pound	46,470

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

MODEL: Default
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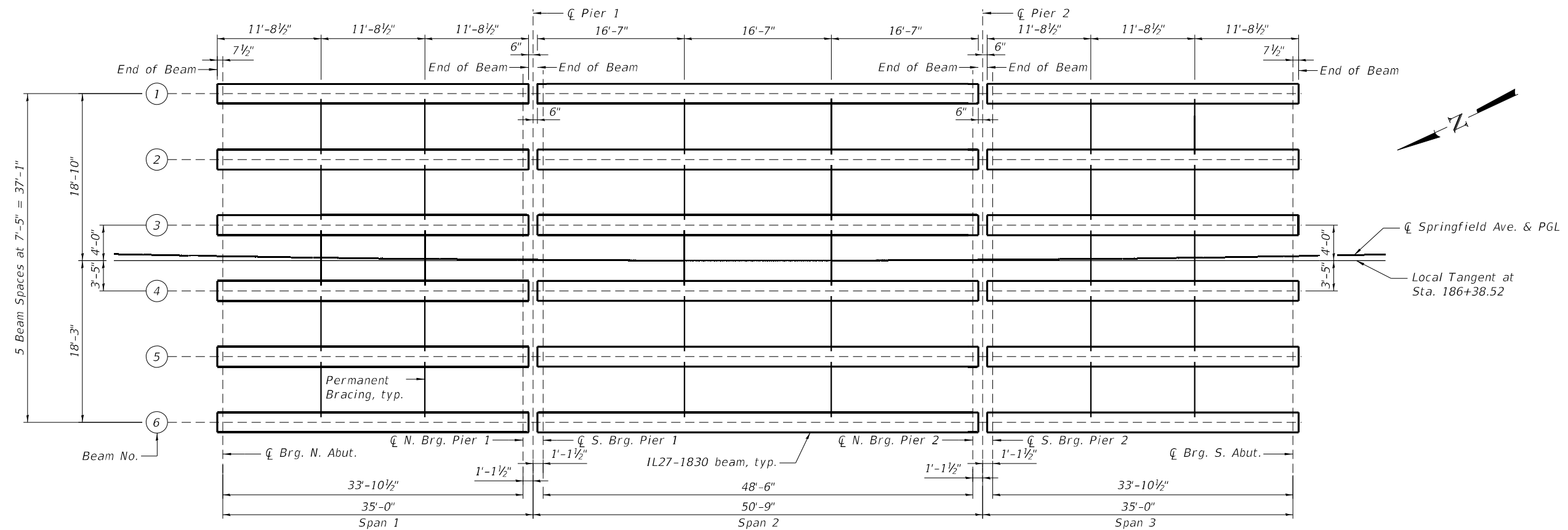
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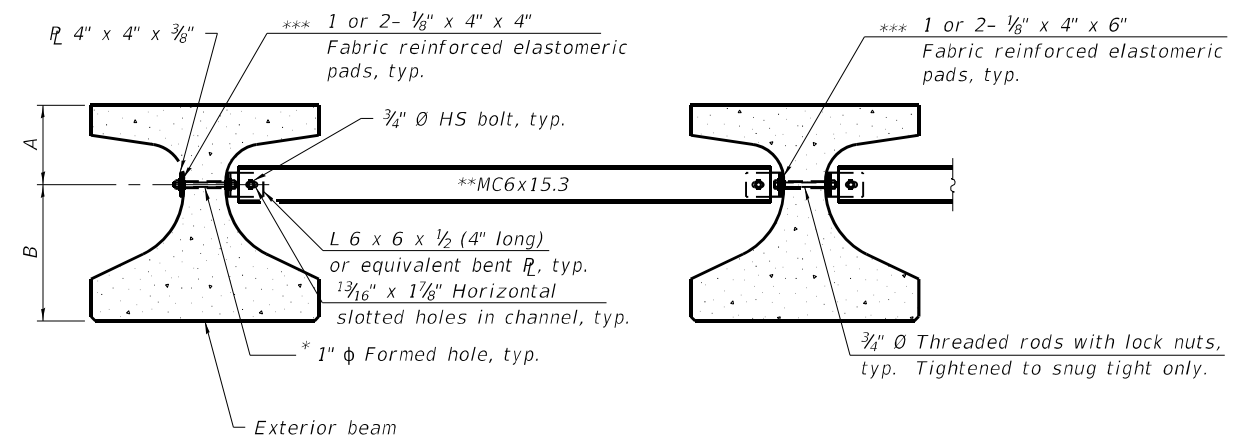
APPROACH SLAB DETAILS
STRUCTURE NO. 101-0229

SHEET 18 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	38
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				



FRAMING PLAN



Notes:
 All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.
 Two hardened washers are required for each set of oversized holes.
 All holes shall be $1\frac{5}{16}$ " \emptyset unless otherwise noted.
 $\frac{5}{16}$ " x 3" x 3" plate washers are required over all slotted holes.
 All bolts, threaded rods, and hardware shall be galvanized according to AASHTO M232.
 Threaded rods shall be ASTM F 1554 Grade 55.
 Bracing shall be installed as beams are erected and tightened as soon as possible during erection.
 Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Beams.

Beam	A	B
IL27	11 $\frac{1}{4}$ "	1'-3 $\frac{3}{4}$ "

- * Fabricator shall locate to miss strands within permissible tolerances.
- ** Alternate MC6x18 channels are permitted to facilitate material acquisition.
- *** Place pads as necessary to provide a flat mounting surface between the steel and concrete.

	0.4 Sp. 1 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. 2
I	(in ⁴) 33,879	33,879	33,879
I'	(in ⁴) 133,900	133,900	133,900
S _b	(in ³) 3,060	3,060	3,060
S _b '	(in ³) 6,164	6,164	6,164
S _t	(in ³) 2,127	2,127	2,127
S _t '	(in ³) 25,373	25,373	25,373
DC1	(k/ft.) 1.263	1.263	1.263
M _{DC1}	(k) 174	0	371
DC2	(k/ft.) 0.175	0.175	0.175
M _{DC2}	(k) 12	-34	22
DW	(k/ft.) 0.338	0.338	0.338
M _{DW}	(k) 24	-66	43
LLDF	(k) 0.727	0.688	0.658
M _{L + IM}	(k) 369	-355	402

- I: Non-composite moment of inertia of beam section (in⁴).
- I': Composite moment of inertia of beam section (in⁴).
- S_b: Non-composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_b': Composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_t: Non-composite section modulus for the top fiber of the prestressed beam (in³).
- S_t': Composite section modulus for the top fiber of the prestressed beam (in³).
- DC1: Un-factored non-composite dead load (kips/ft.).
- M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- LLDF: Live load distribution factor for moment and shear (kip-ft.) or (kip).
- M_{L + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- OCF: Obtuse correction factor (kip).

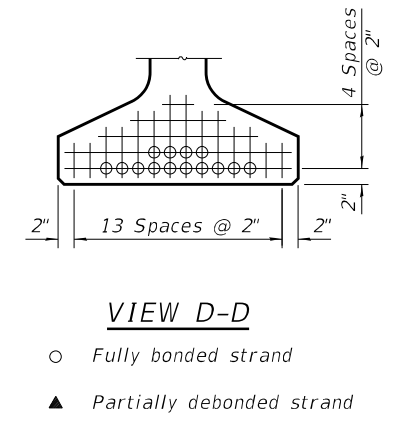
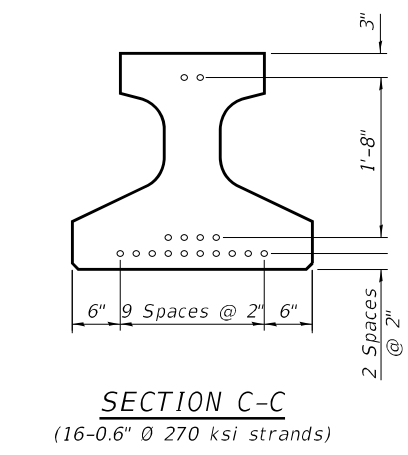
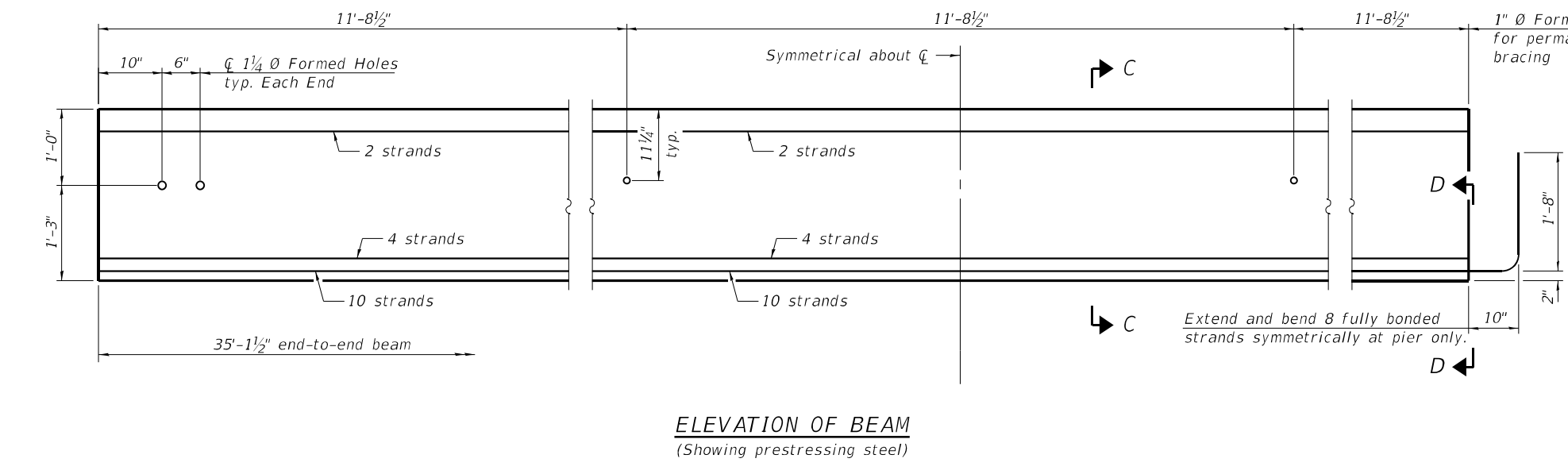
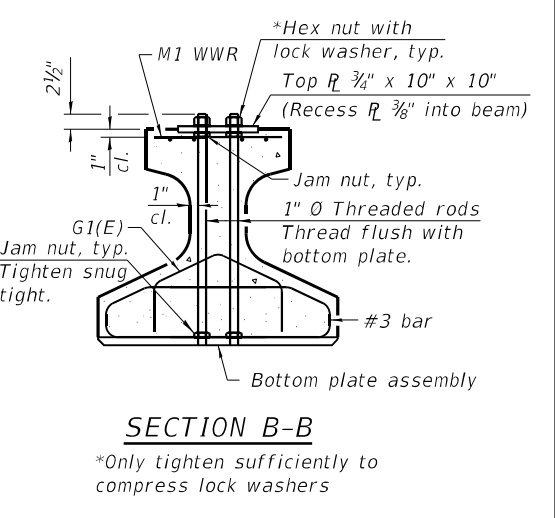
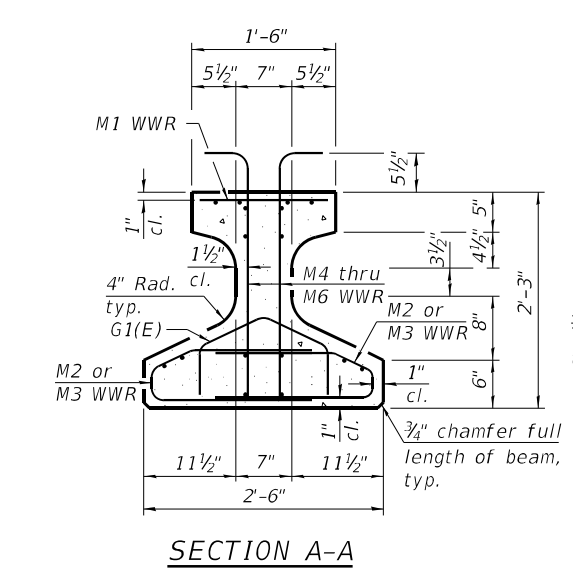
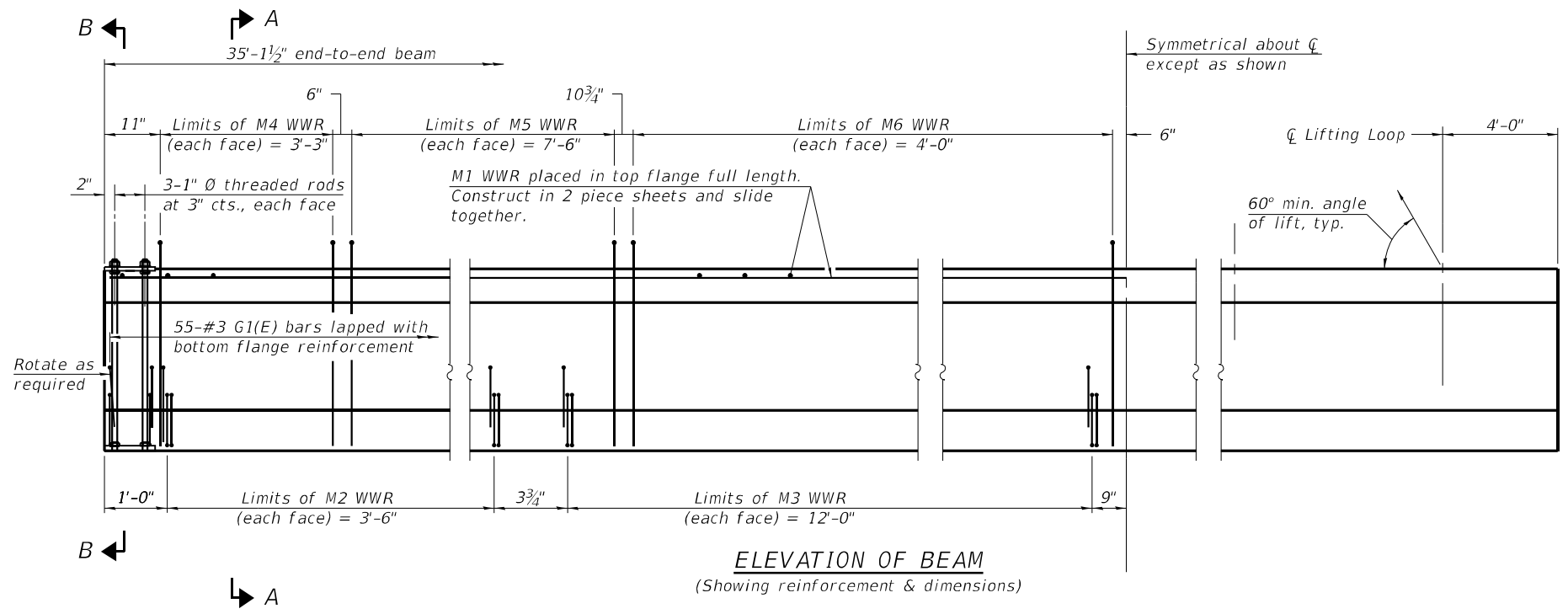
	Abutments	Pier 1 Span 1 Pier 2 Span 3	Pier 1 Span 2 Pier 2 Span 2
LLDF	(k) 0.773	0.773	0.773
OCF	(k) 1.000	-	-
R _{DC1}	(k) 21.4	21.4	30.6
* R _{DC2}	(k) 2.1	4.2	4.2
* R _{DW}	(k) 4.0	8.2	8.2
* R _{L + IM}	(k) 59.3	47.0	47.0
R _{Total (Strength I)(Impact)}	(k) 139.1	126.5	138.0
R _{Total (Strength I)(No Impact)}	(k) 116.9	111.6	123.1

* At continuous piers, reactions from composite loads are assumed to be equally distributed to each bearing line.

PERMANENT BRACING DETAILS FOR IL27 BEAMS

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SPANS 1 & 3
 IL27-1830 Beam
 Strand Pattern = 14B-2T-0db-0d

Note:
 See sheet 22 of 33 for additional details and Bill of Material.

IL27-1830

8-13-2021



USER NAME =	DESIGNED - MJW	REVISED -
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PLOT DATE =	DRAWN - MJW	REVISED -
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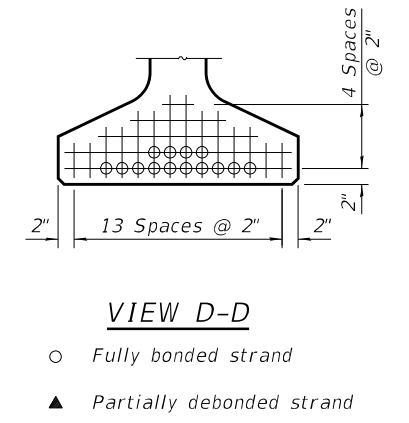
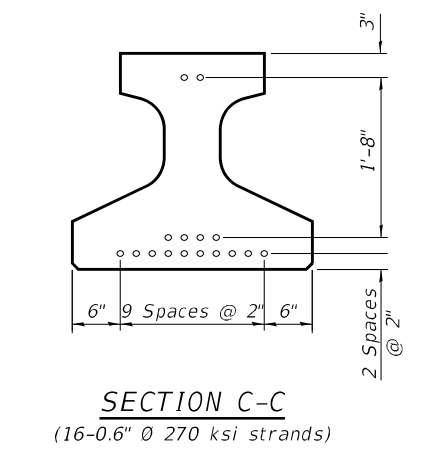
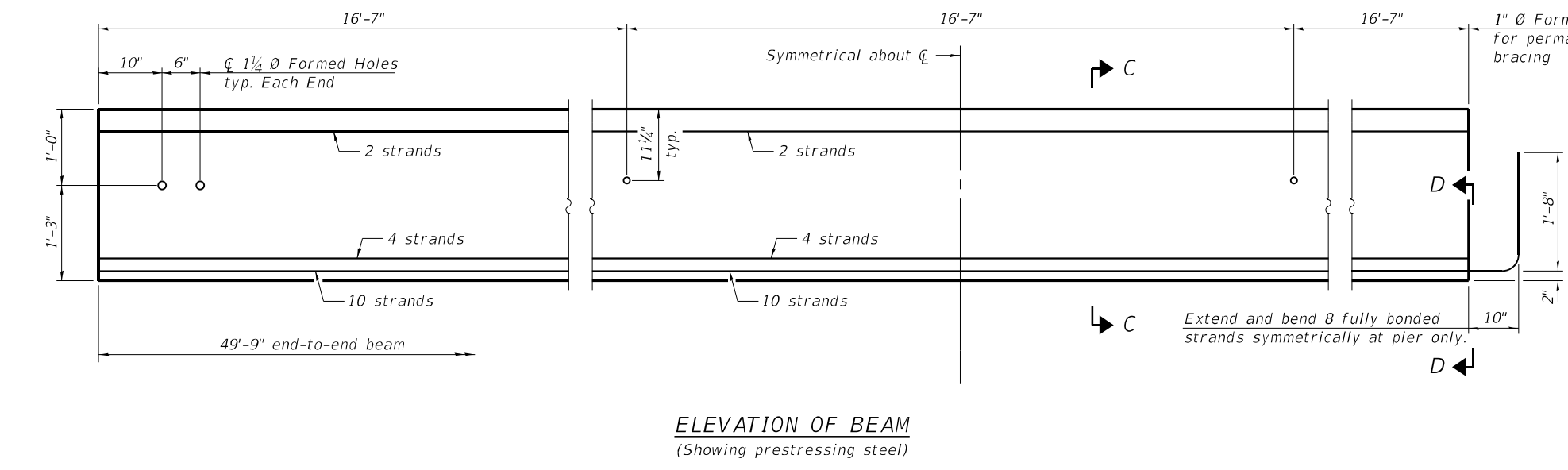
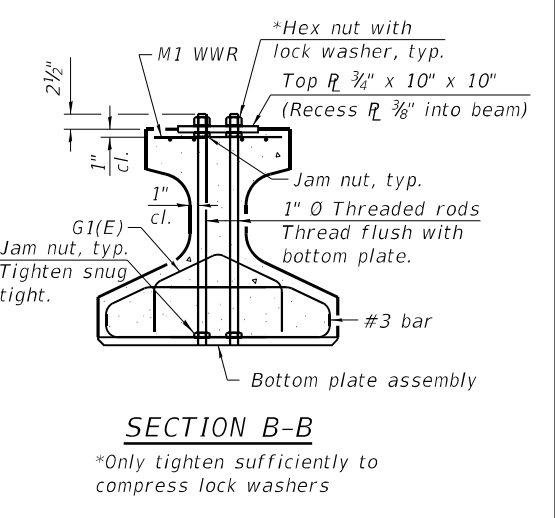
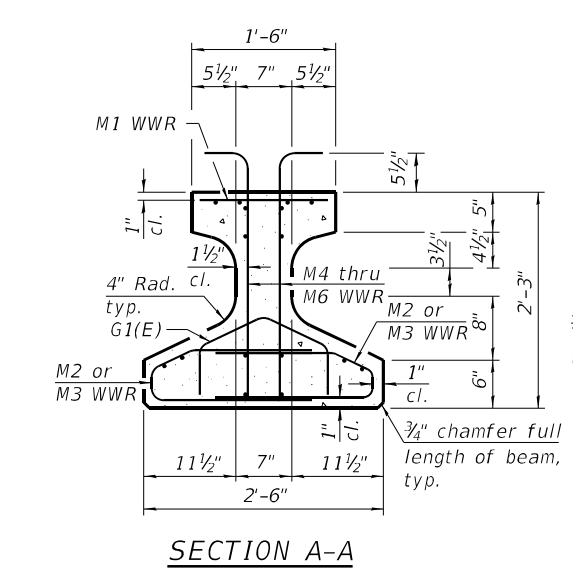
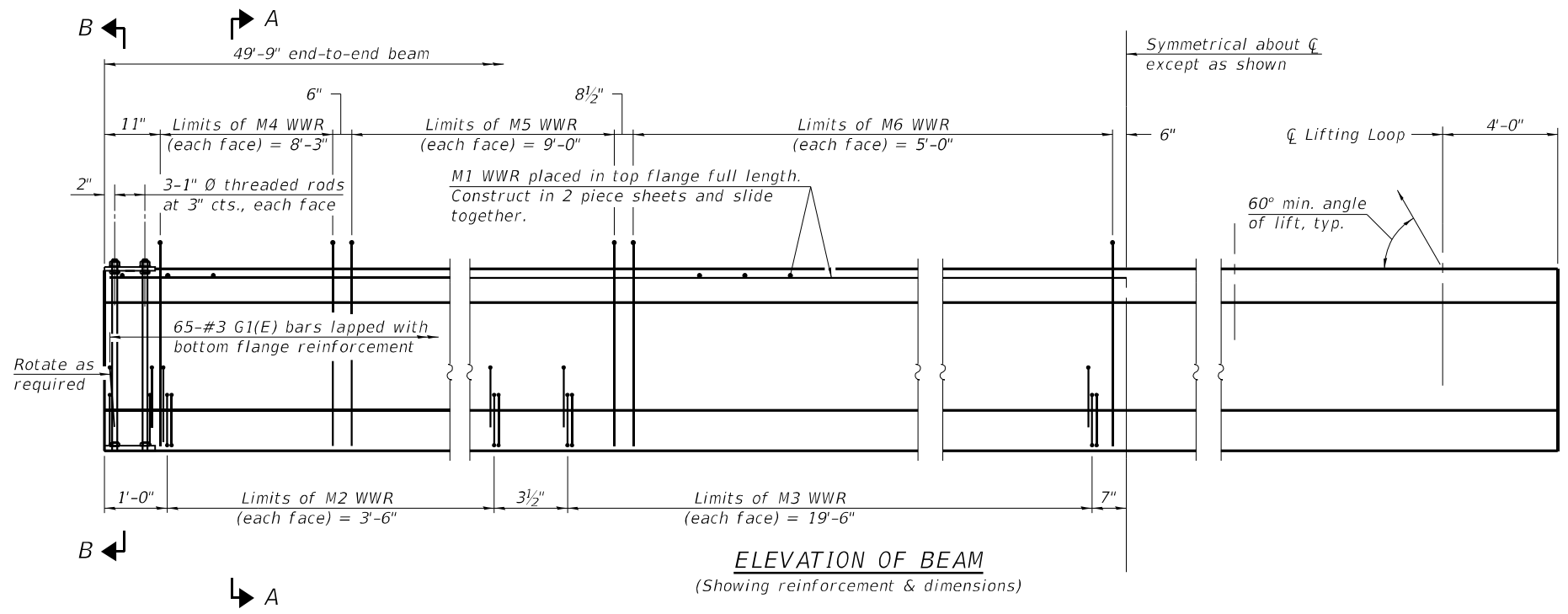
IL27N BEAM (SPANS 1 & 3)
 STRUCTURE NO. 101-0229

SHEET 20 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	40
CONTRACT NO. 64P06				

ILLINOIS FED. AID PROJECT

MODEL: Default
 FILE NAME: W:\191-176 IDOT_Springfield Ave Phase I\CADD_Sheets\Structural\1010229-D264P06-02-1-IL27-1830 Beam (Span 2).dgn



SPAN 2
 IL27-1830 Beam
 Strand Pattern = 14B-2T-0db-0d

Note:
 See sheet 22 of 33 for additional details and Bill of Material.

IL27-1830

8-13-2021

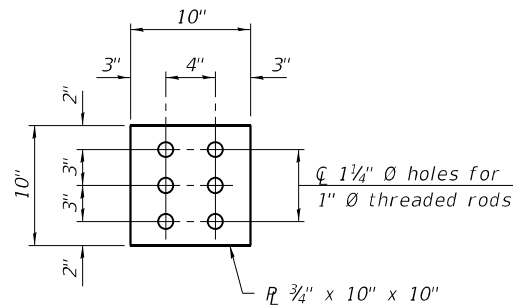


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PLOT SCALE =	CHECKED - ES	REVISED -
PLOT DATE =	DRAWN - MJW	REVISED -
	CHECKED - ES	REVISED -

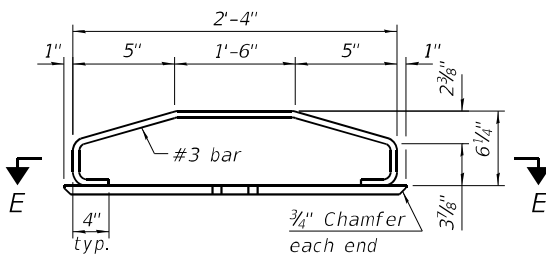
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL27N BEAM (SPAN 2)
 STRUCTURE NO. 101-0229

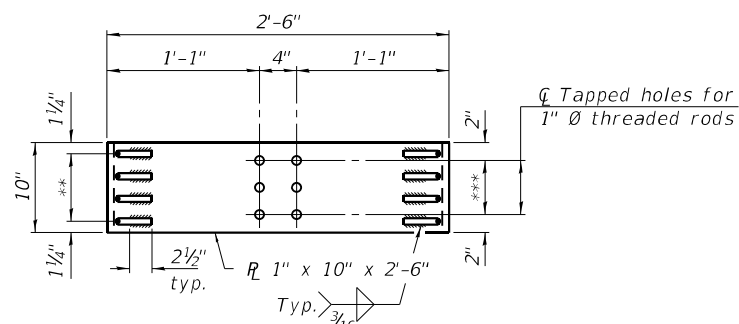
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	41
CONTRACT NO. 64P06				



PLAN - TOP PLATE



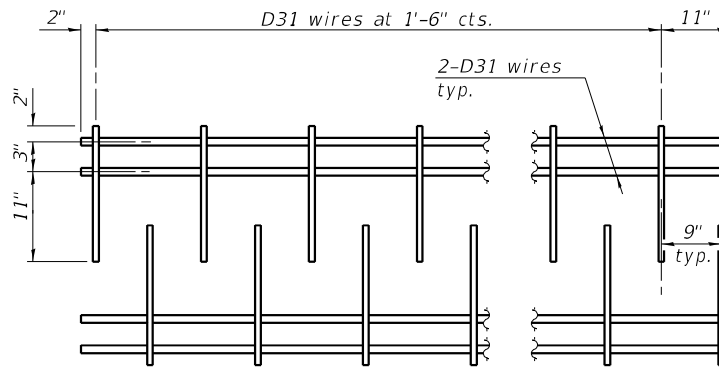
ELEVATION - BOTTOM PLATE ASSEMBLY



SECTION E-E

** 3 Spaces at 2 1/2" = 7 1/2"

*** 2 Spaces at 3" = 6"



M1 WWR DETAIL

When multiple sheets of M1 WWR are required along the beam length, #5(E) bars (5'-0" long) shall be used to splice the longitudinal D31 wires together (Min. Lap 2'-2").

TABLE OF DIMENSIONS

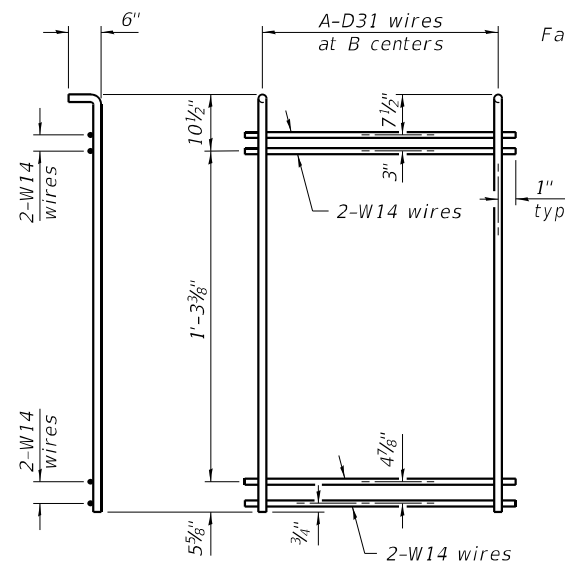
(The WWR designs assume grade 60. If necessary, this permits the fabricator to directly substitute grade 60 rebar as detailed in the Manual for Fabrication of Precast Prestressed Concrete Products.)

SPANS 1 & 3

WWR	A	B
M2	15	3"
M3	9	1'-6"
M4	14	3"
M5	16	6"
M6	5	1'-0"

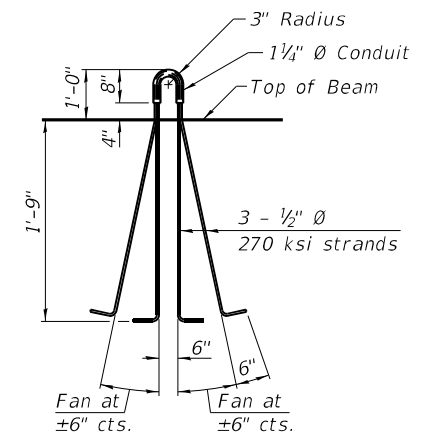
SPAN 2

WWR	A	B
M2	15	3"
M3	14	1'-6"
M4	34	3"
M5	19	6"
M6	6	1'-0"

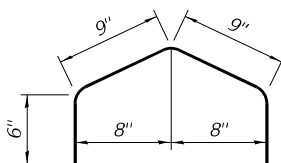


M4 THRU M6 WWR DETAIL

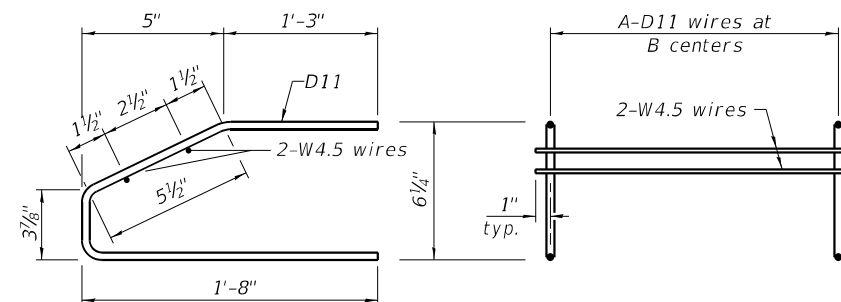
(See Table of Dimensions)



LIFTING LOOP DETAIL



BAR G1(E)



M2 AND M3 WWR DETAIL

(See Table of Dimensions)

NOTES

Inserts for 3/4" diameter threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter for beam strands shall be 0.6" and the nominal cross-sectional area shall be 0.217 sq. in. The nominal diameter for lifting loops shall be 1/2" and the nominal cross sectional area shall be 0.153 sq. in. The beams shall have a final concrete compressive strength, f'c, of 8500 psi and a release concrete compressive strength, f'ci, of 6500 psi. A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling. Bend the extended strands inward on the fascia beams to maintain 1 1/2" clearance inside the pier diaphragm. The top and bottom plates shall be AASHTO M270 Grade 50. The top plates and bottom plate assemblies shall be galvanized according to AASHTO M111. The threaded rods, nuts and washers shall be galvanized according to AASHTO M232. Threaded rods shall be ASTM F 1554 Grade 55. Welded Wire Reinforcement (WWR) shall conform to ASTM A884 with a Class A, Type 1 epoxy coating or ASTM A1060, Table 3 galvanized coating.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Beams, IL27N	Foot	720

MODEL: Default
FILE NAME: W:\191-176 IDOT_Springfield Ave Phase II\CADD_Sheets\Structural\1010229-D264P06-02-IL27-1830 Beam Details.dgn

IL27-1830D

8-13-2021



USER NAME	DESIGNED	REVISIONS
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	- ES	-
PLOT SCALE	- MJW	-
	- ES	-
PLOT DATE	-	-

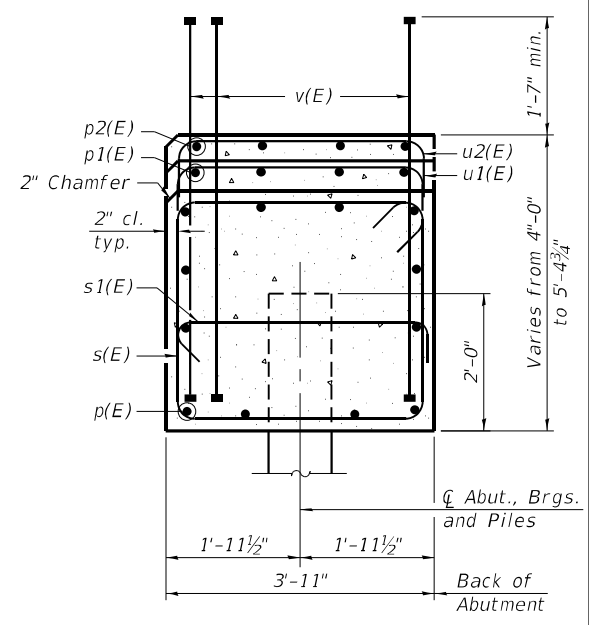
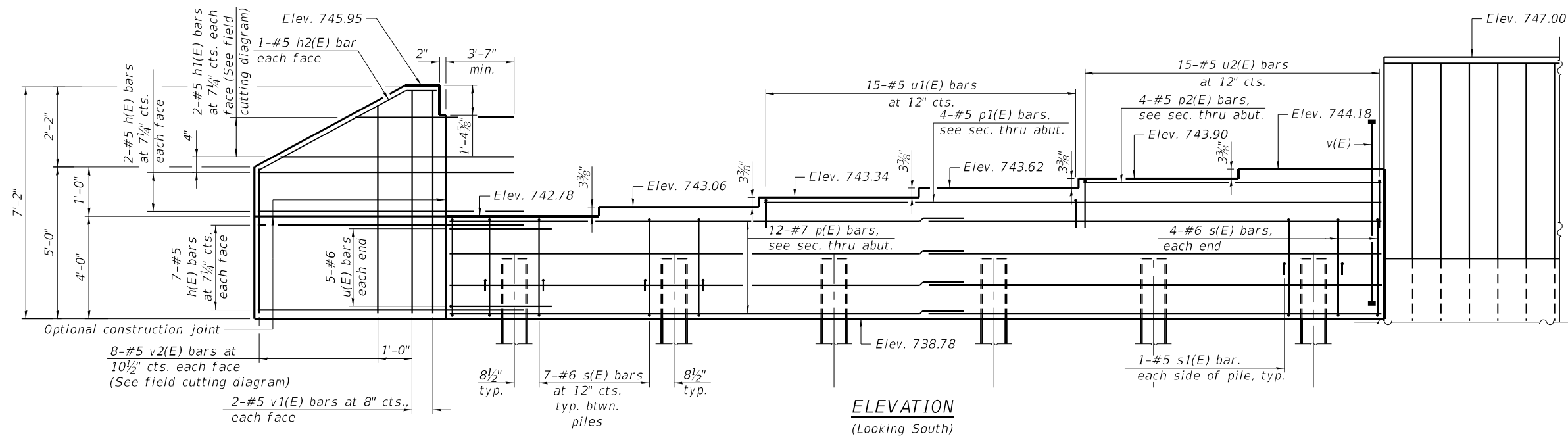
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL27N BEAM DETAILS
STRUCTURE NO. 101-0229

SHEET 22 OF 33 SHEETS

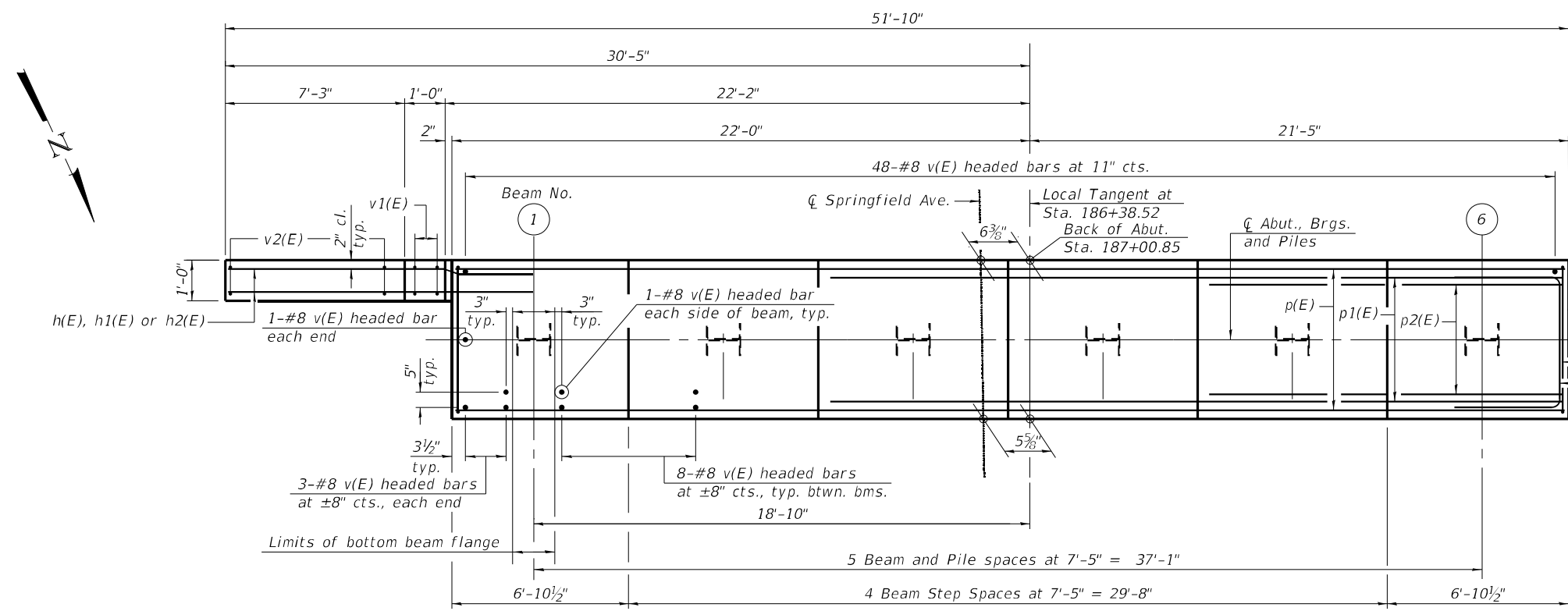
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	42
CONTRACT NO. 64P06				

ILLINOIS FED. AID PROJECT



ELEVATION
(Looking South)

SEC. THRU ABUT.



Permanent Sheet Piling attached with Threaded Rebar #6 d10(E) (See sheets 04 and 05 of 33)

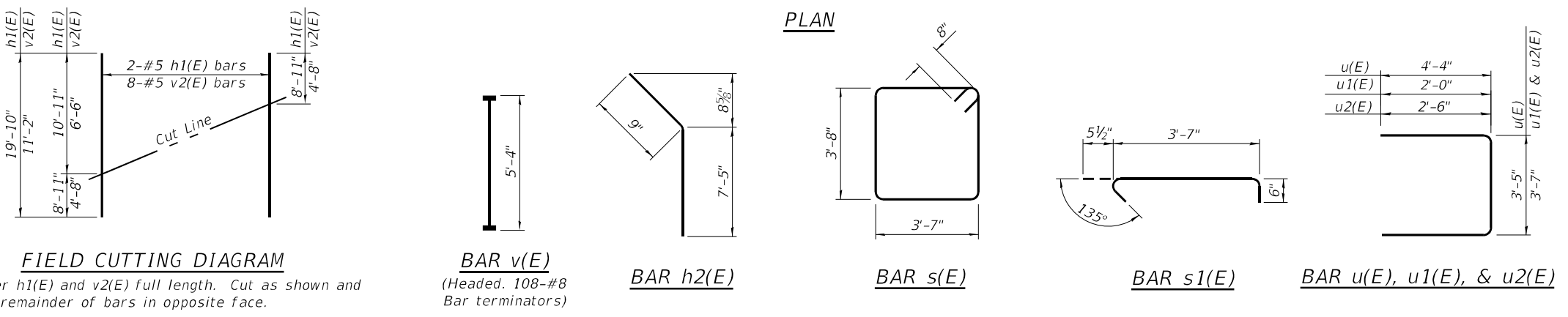
PILE DATA
Type: HP 12x63 with pile shoes
Nominal Required Bearing: 497 kips
Factored Resistance Available: 273 kips
Est. Length: 46 feet
No. Production Piles: 5
No. Test Piles: 1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
* d10(E)	7	#6	9"	—
h(E)	18	#5	11'-10"	—
h1(E)	2	#5	19'-10"	—
h2(E)	2	#5	8'-2"	—
p(E)	24	#7	23'-11"	—
p1(E)	4	#5	28'-9"	—
p2(E)	4	#5	13'-11"	—
s(E)	43	#6	15'-10"	□
s1(E)	12	#5	4'-7"	┌
u(E)	10	#6	12'-1"	┌
u1(E)	15	#5	7'-7"	┌
u2(E)	15	#5	8'-7"	┌
v(E)	108	#8	5'-4"	—
v1(E)	4	#5	6'-10"	—
v2(E)	8	#5	11'-2"	—
Structure Excavation			Cu. Yd.	144
Concrete Structures			Cu. Yd.	31.6
Reinforcement Bars, Epoxy Coated			Pound	4,810
Furnishing Steel Piles HP12x63			Foot	230
Driving Piles			Foot	230
Test Pile Steel HP12x63			Each	1
Pile Shoes			Each	6

* Included in the cost of Permanent Sheet Piling. Not included in quantity of Reinforcement Bars, Epoxy Coated.

Notes:
Pour steps monolithically with cap.
Bar terminators, paid for separately. See Total Bill of Material.
For details of piles see sheet 28 of 33.



FIELD CUTTING DIAGRAM

Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite face.

BAR v(E)
(Headed, 108-#8 Bar terminators)

BAR h2(E)

BAR s(E)

BAR s1(E)

BAR u(E), u1(E), & u2(E)

MODEL: Default
FILE NAME: W:\191-176 IDOT Springfield Ave Phase II\CADD Sheets\Structural\1010229-D264P06-024-South Abutment.dgn



USER NAME =	DESIGNED - ES	REVISED -
PLOT SCALE =	CHECKED - MJW	REVISED -
PLOT DATE =	DRAWN - ES	REVISED -
	CHECKED - MJW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
STRUCTURE NO. 101-0229

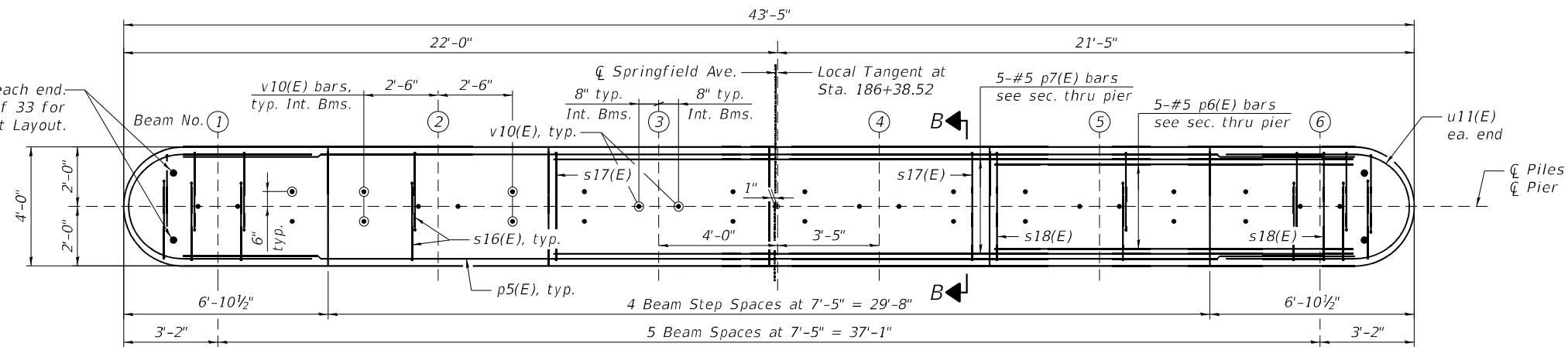
SHEET 24 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	44
CONTRACT NO. 64P06				

ILLINOIS FED. AID PROJECT



Anchor bolts, each end.
See sheet 26 of 33 for
Anchor Bolt Layout.

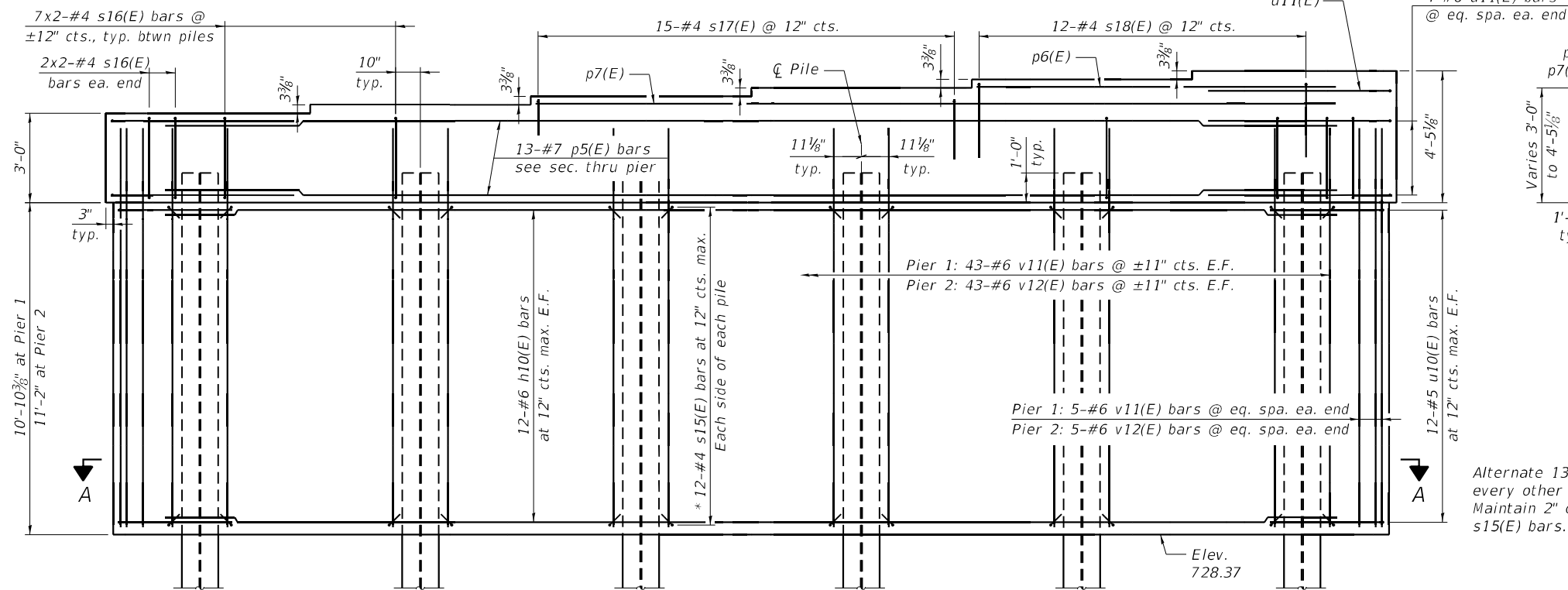


TOP PLAN

(Pier 1 & Pier 2)

MINIMUM BAR LAP

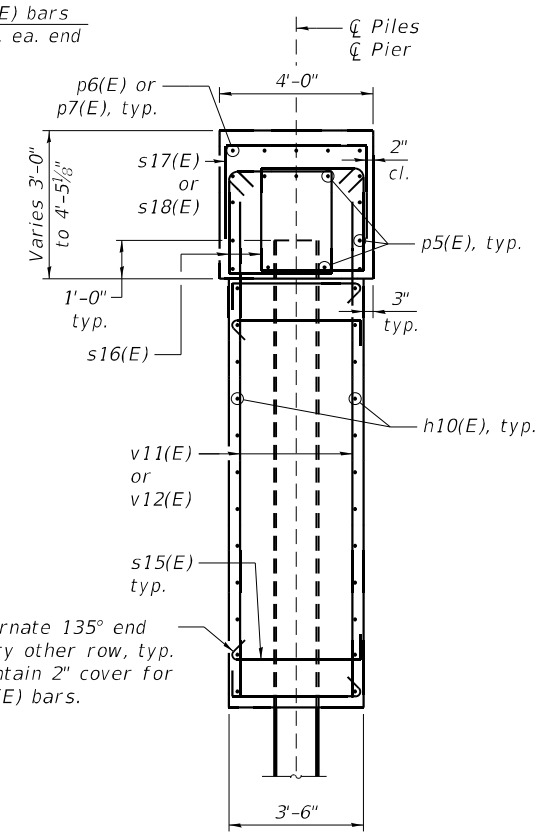
#5 Bars = 3'-7"
#6 Bars = 4'-4"



ELEVATION

(Looking South)

* Hook s15(E) bar around h10(E) and v11(E) or v12(E) bars.

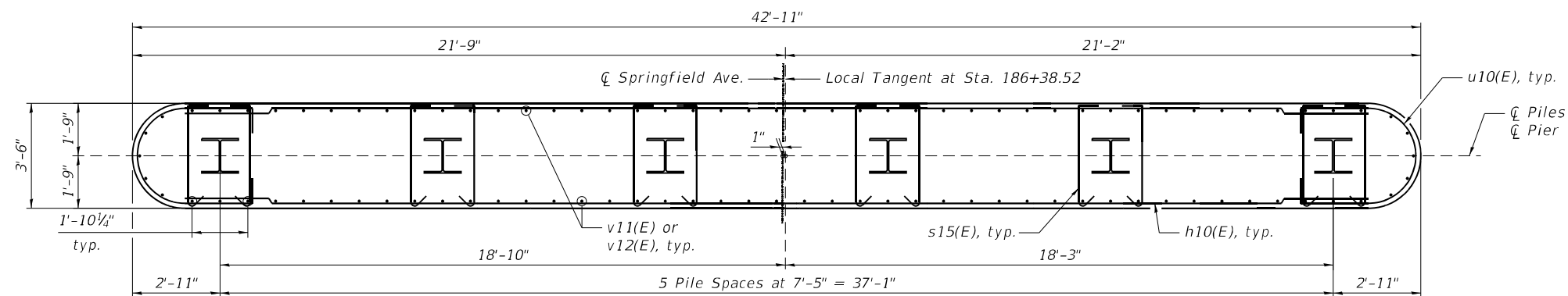


SECTION THRU PIER

(Pier 1 & Pier 2)

BEARING SEAT ELEVATIONS

Beam	Pier 1 Elev.	Pier 2 Elev.
1	742.22	742.54
2	742.50	742.82
3	742.79	743.10
4	743.07	743.38
5	743.35	743.66
6	743.63	743.95



SECTION A-A

(Pier 1 & Pier 2)

NOTES:

1. Cast steps monolithically with cap.
2. Space cap reinforcement to miss anchor bolts.
3. See sheet 26 of 33 for Section B-B, additional details, and Bill of Material.

MODEL: Default
FILE NAME: W:\191-176 IDOT_Springfield Ave Phase II\CADD_Sheets\Structural\1010229-D264P06-025-Pier 1 & 2.dgn



USER NAME =	DESIGNED - MJW	REVISED -
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PLOT DATE =	DRAWN - MJW	REVISED -
	CHECKED - ES	REVISED -

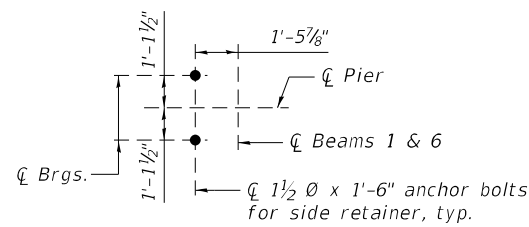
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1 & 2
STRUCTURE NO. 101-0229

SHEET 25 OF 33 SHEETS

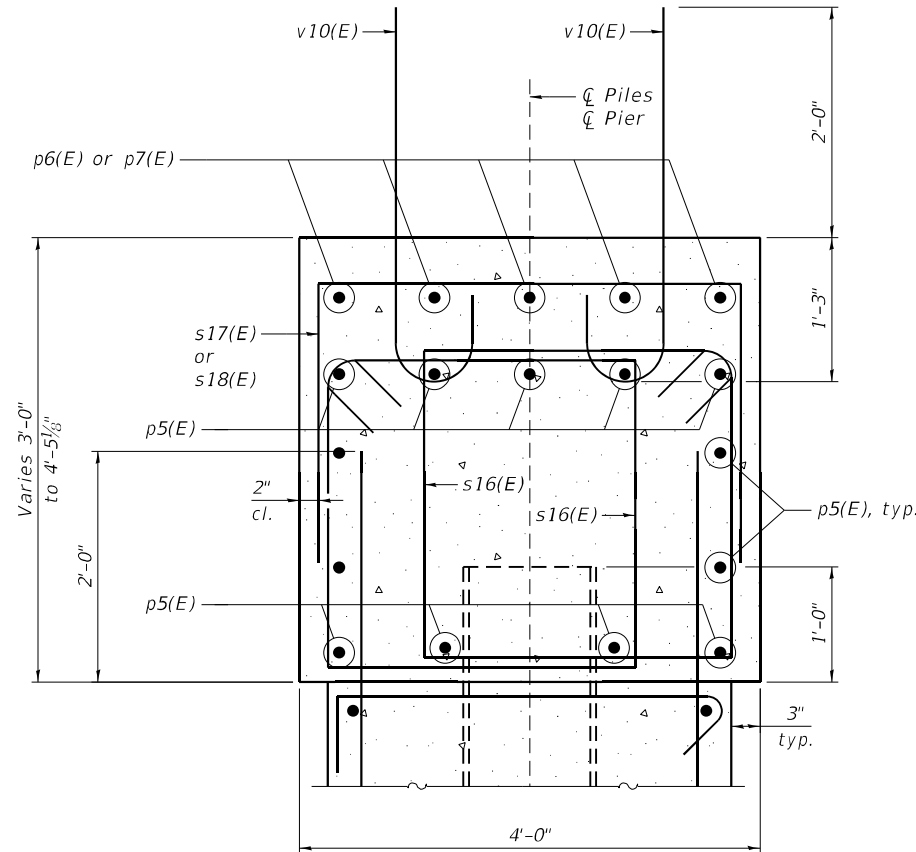
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	45
CONTRACT NO. 64P06				

ILLINOIS FED. AID PROJECT



ANCHOR BOLT LAYOUT

(Anchor bolts are on exterior side of beams.)
(See sheet 15 of 33)



SECTION B-B

**PIER 1
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h10(E)	24	#6	39'-5"	—
p5(E)	13	#7	39'-5"	—
p6(E)	5	#5	12'-2"	—
p7(E)	5	#5	27'-0"	—
s15(E)	144	#4	4'-3"	└┘
s16(E)	78	#4	11'-7"	▣
s17(E)	15	#4	7'-8"	└┘
s18(E)	12	#4	8'-8"	└┘
u10(E)	24	#5	11'-2"	U
u11(E)	9	#6	14'-5"	U
v10(E)	32	#8	4'-2"	└┘
v11(E)	96	#6	13'-1"	—
Cofferdam Excavation		Cu. Yd.	209	
Cofferdam (Type 2) (Location - 1)		Each	1	
Concrete Structures		Cu. Yd.	82.8	
Seal Coat Concrete		Cu. Yd.	75.9	
Reinforcement Bars, Epoxy Coated		Pound	6,550	
Furnishing Steel Piles HP14x89		Foot	260	
Driving Piles		Foot	260	
Test Pile Steel HP14x89		Each	1	
Pile Shoes		Each	6	

**PIER 2
BILL OF MATERIAL**

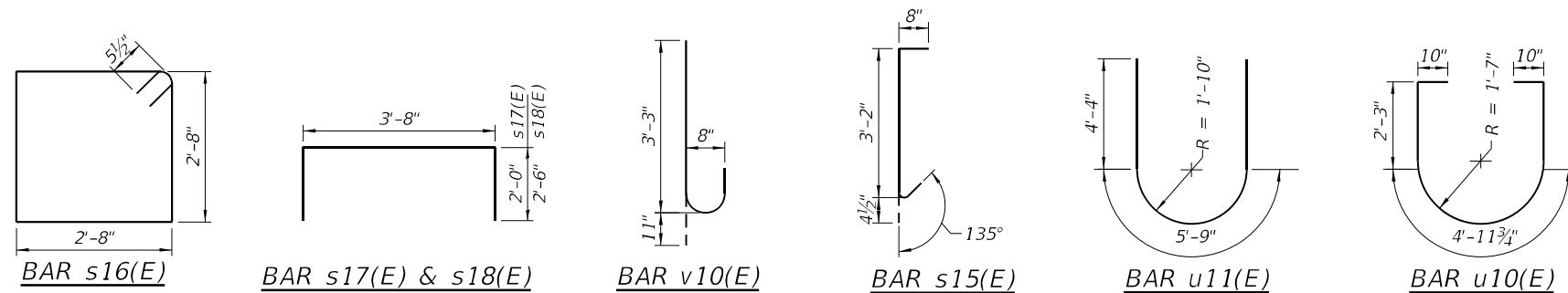
Bar	No.	Size	Length	Shape
h10(E)	24	#6	39'-5"	—
p5(E)	13	#7	39'-5"	—
p6(E)	5	#5	12'-2"	—
p7(E)	5	#5	27'-0"	—
s15(E)	144	#4	4'-3"	└┘
s16(E)	78	#4	11'-7"	▣
s17(E)	15	#4	7'-8"	└┘
s18(E)	12	#4	8'-8"	└┘
u10(E)	24	#5	11'-2"	U
u11(E)	9	#6	14'-5"	U
v10(E)	32	#8	4'-2"	└┘
v12(E)	96	#6	13'-5"	—
Cofferdam Excavation		Cu. Yd.	201	
Cofferdam (Type 2) (Location - 2)		Each	1	
Concrete Structures		Cu. Yd.	84.5	
Seal Coat Concrete		Cu. Yd.	75.9	
Reinforcement Bars, Epoxy Coated		Pound	6,600	
Furnishing Steel Piles HP14x89		Foot	295	
Driving Piles		Foot	295	
Test Pile Steel HP14x89		Each	1	
Pile Shoes		Each	6	

**PIER 1
PILE DATA**

Type: HP 14x89 with pile shoes
Nominal Required Bearing: 705 kips
Factored Resistance Available: 388 kips
Est. Length: 52 feet
No. Production Piles: 5
No. Test Piles: 1

**PIER 2
PILE DATA**

Type: HP 14x89 with pile shoes
Nominal Required Bearing: 705 kips
Factored Resistance Available: 388 kips
Est. Length: 59 feet
No. Production Piles: 5
No. Test Piles: 1



NOTES:

1. Cast steps monolithically with cap.
2. Space cap reinforcement to miss anchor bolts.
3. For pile details see sheet 28 of 33.

MODEL: Default
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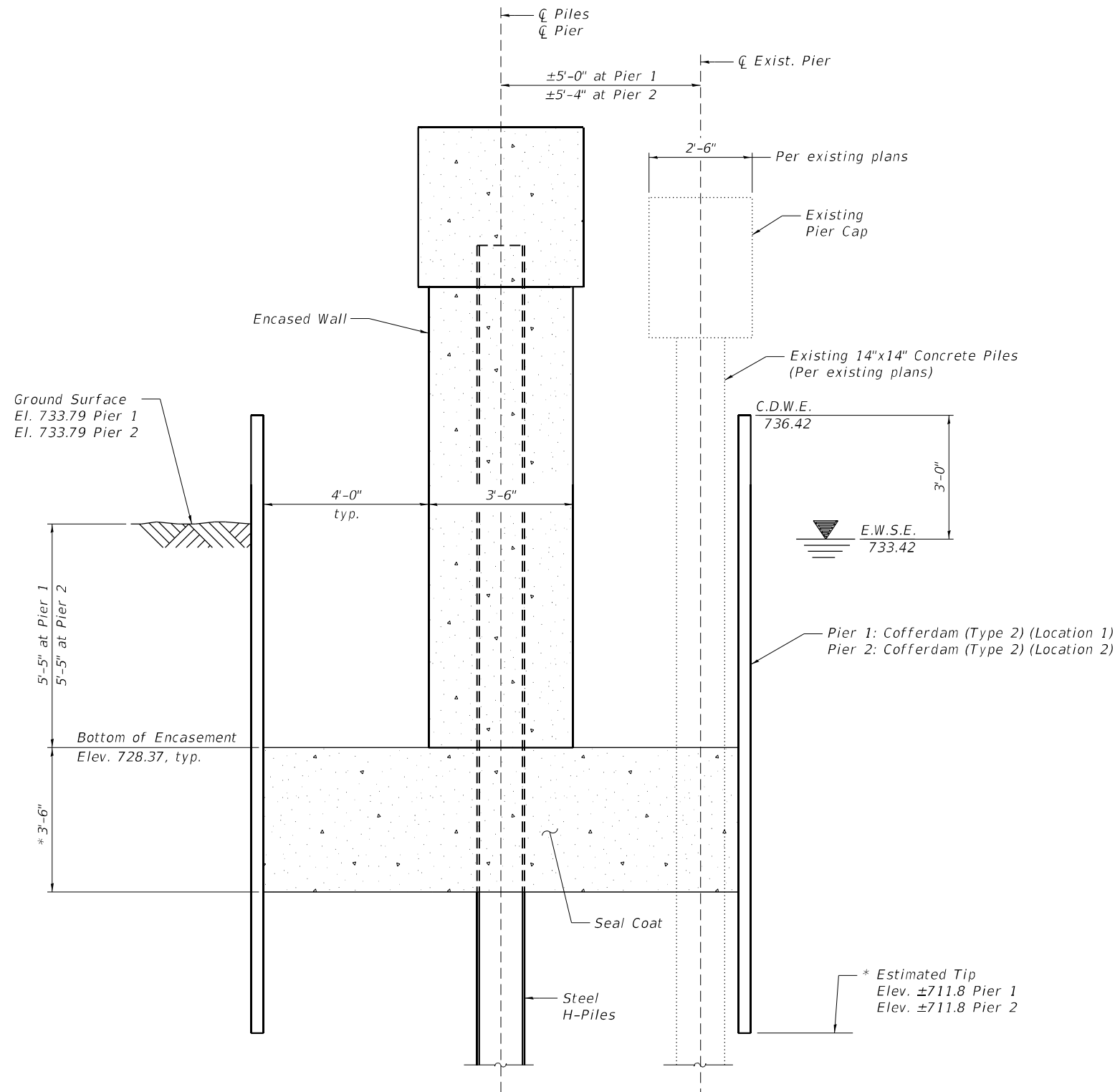
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PLOT SCALE =	CHECKED - ES	REVISED -
PLOT DATE =	DRAWN - MJW	REVISED -
	CHECKED - ES	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER DETAILS
STRUCTURE NO. 101-0229**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	46
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: W:\191-176 IDOT Springfield Ave Phase II\CADD Sheets\Structural\1010229-D264P06-027-Cofferdam & Seal Coat_Details.dgn



SECTION THRU COFFERDAM
 (Pier 1 & Pier 2)

* Final design by contractor.

Notes:
 See sheet 26 of 33 for Bill of Material.



USER NAME =	DESIGNED - MJW	REVISED -
	CHECKED - ES	REVISED -
PLOT SCALE =	DRAWN - MJW	REVISED -
PLOT DATE =	CHECKED - ES	REVISED -

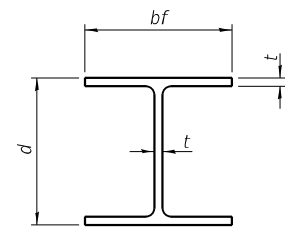
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**COFFERDAM AND SEAL COAT DETAILS
 STRUCTURE NO. 101-0229**

SHEET 27 OF 33 SHEETS

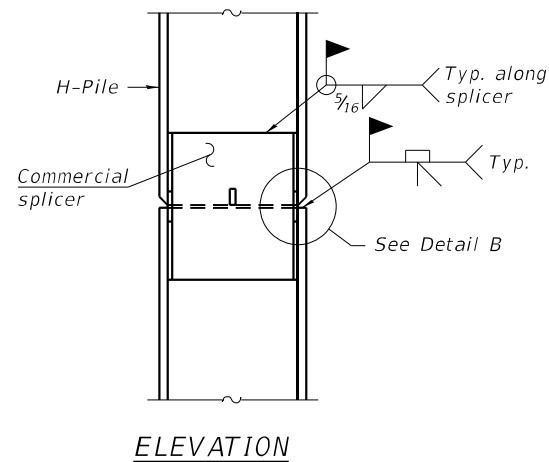
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	47
CONTRACT NO. 64P06				

ILLINOIS FED. AID PROJECT

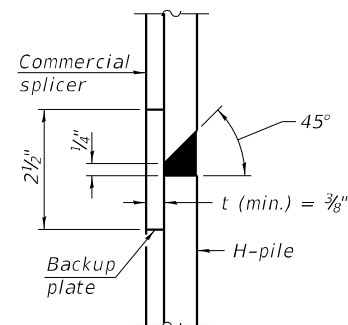


STEEL PILE TABLE

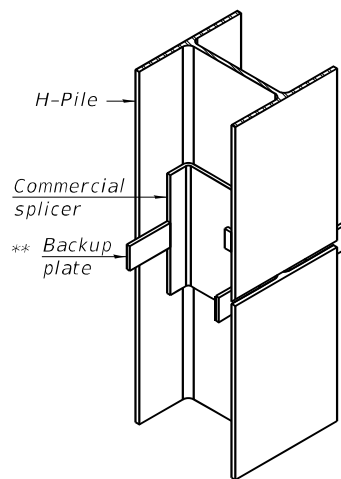
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 3/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

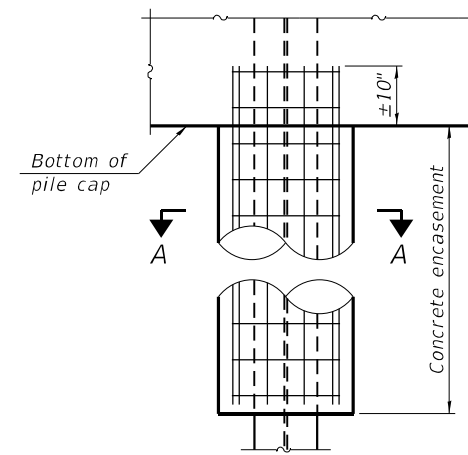


DETAIL "B"

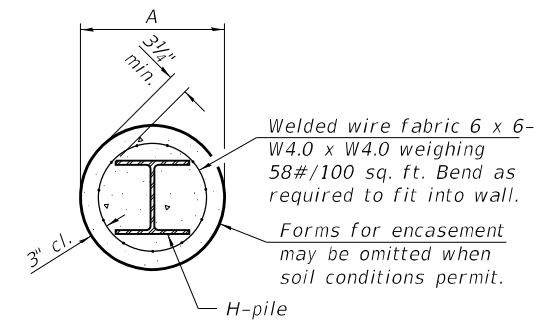


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

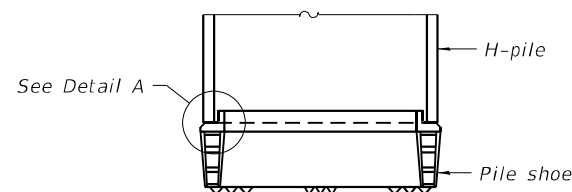


ELEVATION

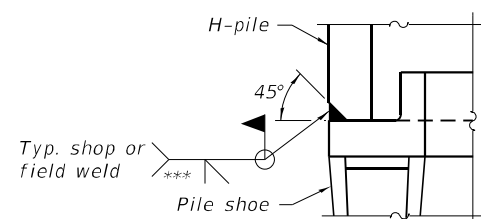


SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASUREMENT
(when specified)



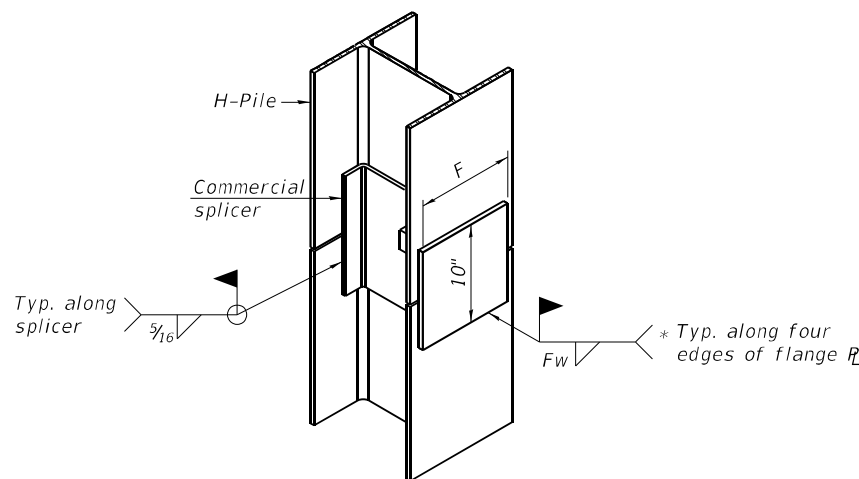
ELEVATION



DETAIL A

SHOE ATTACHMENT

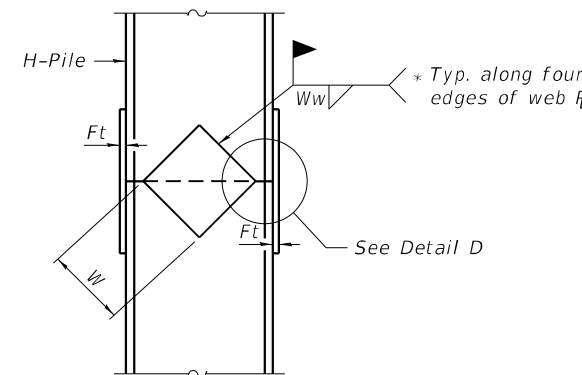
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



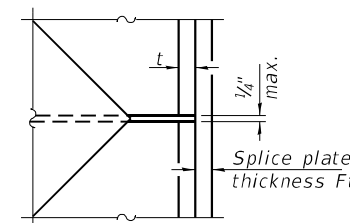
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

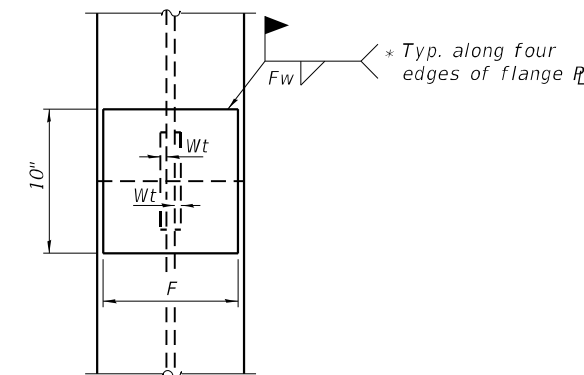


ELEVATION



DETAIL D

WELDED PLATE FIELD SPLICE



END VIEW

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

MODEL: Default
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F-HP 2-1-2023



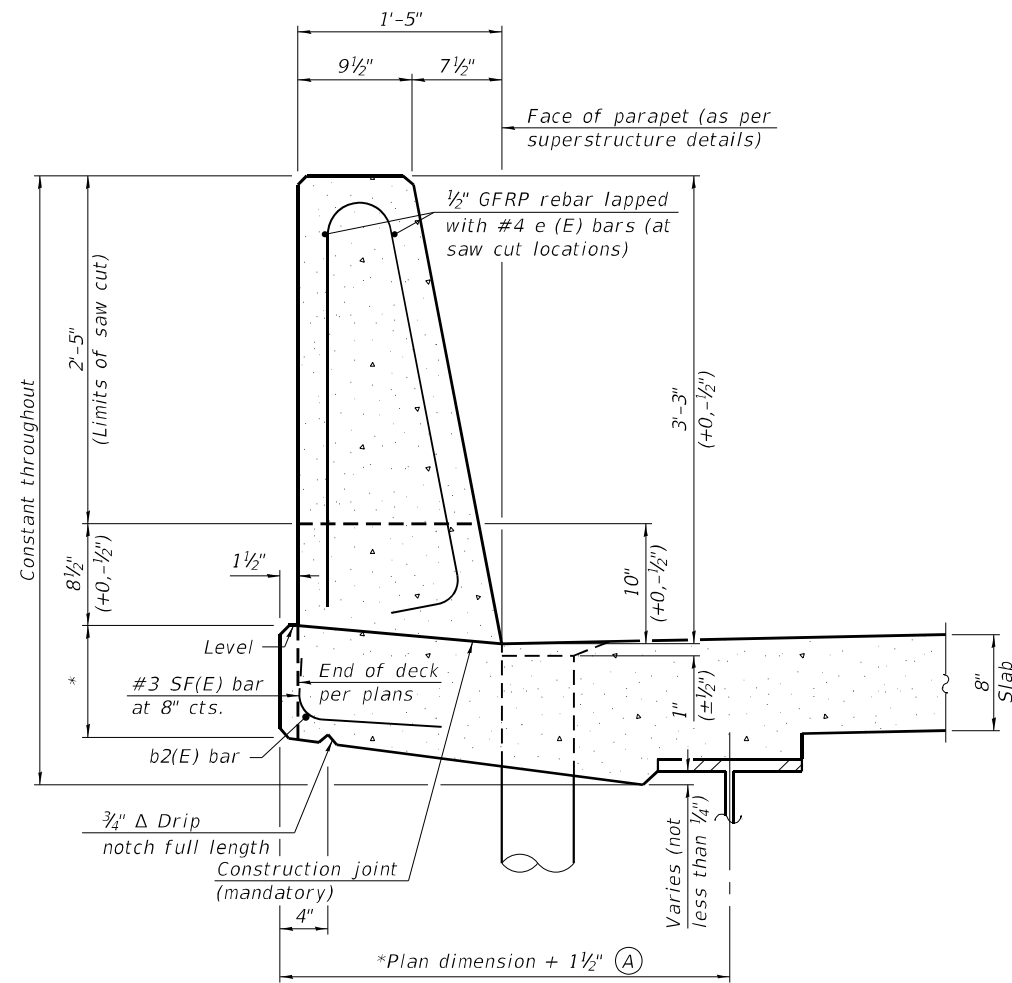
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PLOT DATE =	DRAWN - MJW	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 101-0229

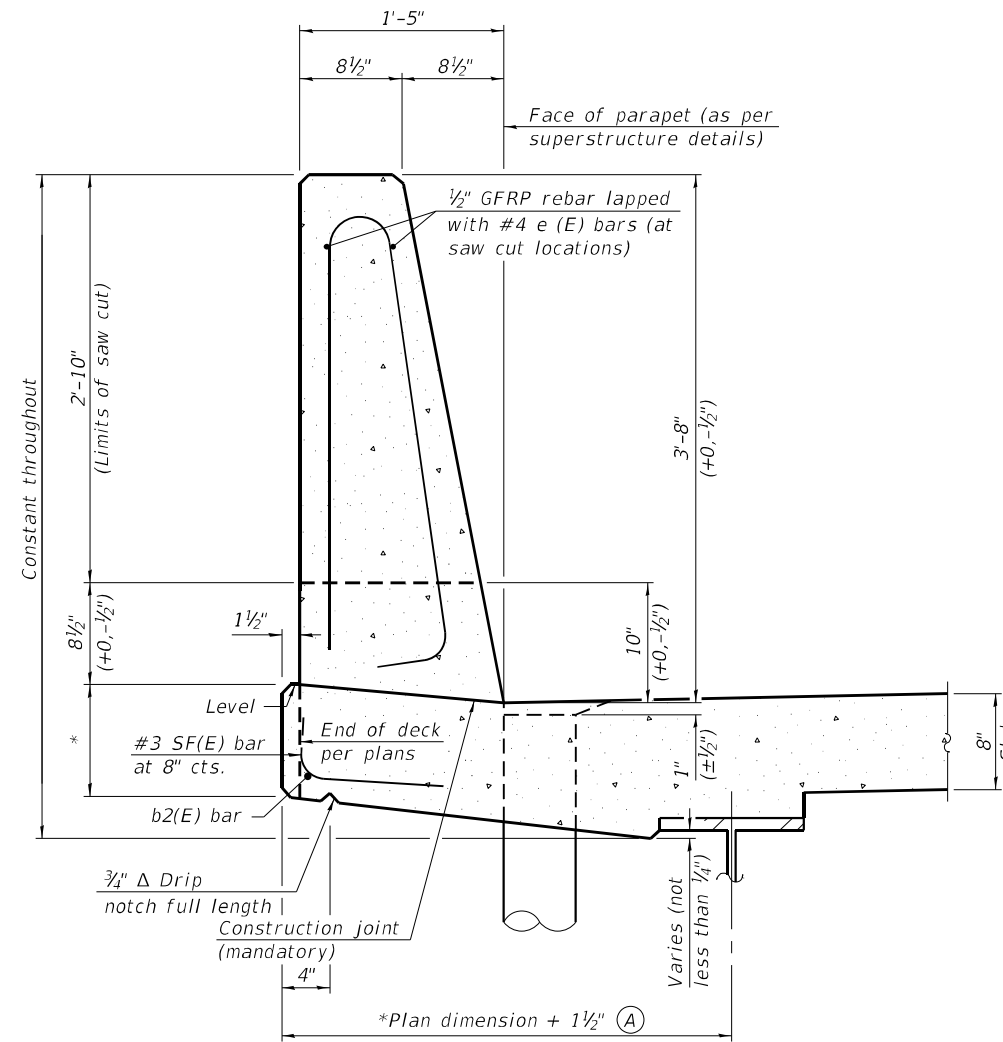
SHEET 28 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	48
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				



**39" CONSTANT-SLOPE
PARAPET SECTION**

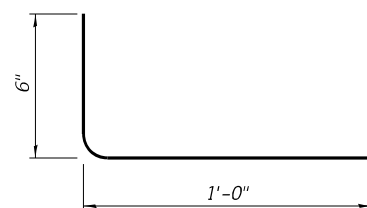
(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)



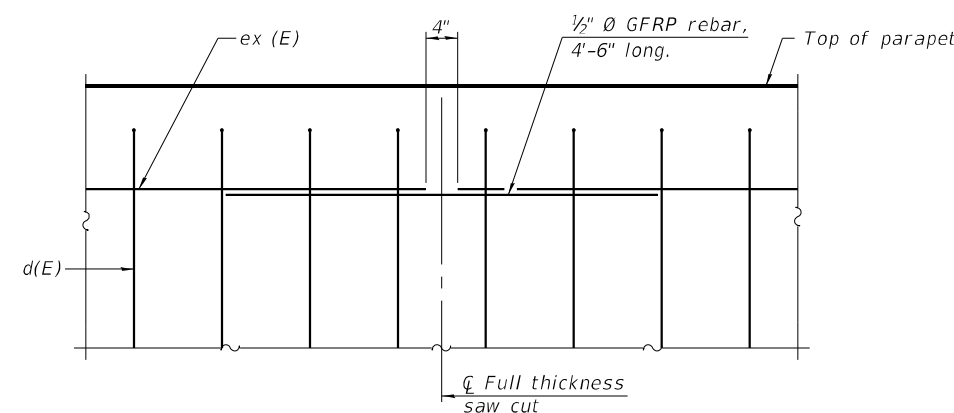
**44" CONSTANT-SLOPE
PARAPET SECTION**

(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)

*See Superstructure Details.



SF(E) BAR



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)

Notes:
All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.00348 cu. yds./ft. for 39" and 44" parapets.
Place full depth aluminum sheets as shown on superstructure details.
Replace all cork joint filler locations with a full thickness saw cut.
Steel superstructure shown. Other superstructure types similar.

MODEL: Default
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SFP 39-44

11-1-2022



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	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 101-0229

SHEET 29 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	49
CONTRACT NO. 64P06				

ILLINOIS FED. AID PROJECT



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 2

ROUTE FAP 525 (Springfield Ave) DESCRIPTION P92-004-20 Bridge over Kent Creek, 0.5 mi S of IL 70 LOGGED BY W. Garza

SECTION 111BR LOCATION Rockford, NE8, SEC., TWP. 44N, RNG. 1E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-75 Automatic

STRUCT. NO. 101-0100 Station Latitude 42° 18' 28.78" Longitude -89° 08' 38.00" Northing 2,056,420.2160 Easting 2,573,234.9583

BORING NO. B-1 Station 272+96 Offset 21.00ft Lt of CL Ground Surface Elev. 745.34 ft	D E P T H H S	B L O W S Qu	U C S Qu	M O I S T T	Surface Water Elev. 731.79 ft Stream Bed Elev. 730.09 ft		Groundwater Elev.: First Encounter Upon Completion Wash After Hrs.		D E P T H H S	B L O W S Qu	U C S Qu	M O I S T T
					(ft)	(/6")	(tsf)	(%)				

Bridge Deck												
						No Recovery SAND? (continued)						
						VERY SOFT gray SILT						
						LOOSE/MEDIUM tan FINE SAND						
						MEDIUM tan MEDIUM SAND with MEDIUM GRAVEL						
						DENSE tan SANDY GRAVEL						
						36" Wash						
Top H2O												
Stream Bed						VERY DENSE tan SANDY GRAVEL						
						6" Wash						
						MEDIUM tan FINE SAND						
						No Recovery SAND?						
						MEDIUM gray SILTY LOAM with SAND LENS						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Boring No. B-1 at Sta. 186+43 measured along
C Proposed Springfield Ave. & PGL



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 2 of 2

ROUTE FAP 525 (Springfield Ave) DESCRIPTION P92-004-20 Bridge over Kent Creek, 0.5 mi S of IL 70 LOGGED BY W. Garza

SECTION 111BR LOCATION Rockford, NE8, SEC., TWP. 44N, RNG. 1E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-75 Automatic

STRUCT. NO. 101-0100 Station Latitude 42° 18' 28.78" Longitude -89° 08' 38.00" Northing 2,056,420.2160 Easting 2,573,234.9583

BORING NO. B-1 Station 272+96 Offset 21.00ft Lt of CL Ground Surface Elev. 745.34 ft	D E P T H H S	B L O W S Qu	U C S Qu	M O I S T T	Surface Water Elev. 731.79 ft Stream Bed Elev. 730.09 ft		Groundwater Elev.: First Encounter Upon Completion Wash After Hrs.		D E P T H H S	B L O W S Qu	U C S Qu	M O I S T T
					(ft)	(/6")	(tsf)	(%)				

						MEDIUM gray SILTY LOAM (continued)						
						STIFF gray SILTY LOAM						
						STIFF gray CLAY LOAM						
						VERY STIFF gray SILTY CLAY						
						MEDIUM gray SILTY LOAM						
						SOFT gray SILT						
						SOFT gray SILTY LOAM						
						SOFT gray SILTY LOAM						
						MEDIUM gray SILTY LOAM						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Boring No. B-1 at Sta. 186+43 measured along
C Proposed Springfield Ave. & PGL

MODEL: Default
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS I
STRUCTURE NO. 101-0229

SHEET 30 OF 33 SHEETS

F.A.P. RTE. 525	SECTION 111BR	COUNTY WINNEBAGO	TOTAL SHEETS 80	SHEET NO. 50
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

ROUTE FAP 525 (Springfield Ave) DESCRIPTION P92-004-20 Bridge over Kent Creek, 0.5 mi S of IL 70 LOGGED BY W. Garza

SECTION 111BR LOCATION Rockford, NE8, SEC., TWP. 44N, RNG. 1E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-75 Automatic

STRUCT. NO. 101-0100 Station 273+82 Latitude 42° 18' 29.49" N Longitude -89° 08' 37.54" W Northing 2,056,492.7837 Easting 2,573,268.4436

BORING NO. B-2 Station 273+82 Offset 20.00ft Lt of CL of bridge Ground Surface Elev. 744.41 ft

Table with columns for Soil Description, Depth (ft), Blows (6"), SPT (tsf), and Moisture (%). Includes soil types like MEDIUM brown SANDY LOAM, VERY STIFF brown SANDY LOAM, etc.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Boring No. B-2 at Sta. 185+64 measured along Proposed Springfield Ave. & PGL



SOIL BORING LOG

ROUTE FAP 525 (Springfield Ave) DESCRIPTION P92-004-20 Bridge over Kent Creek, 0.5 mi S of IL 70 LOGGED BY W. Garza

SECTION 111BR LOCATION Rockford, NE8, SEC., TWP. 44N, RNG. 1E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-75 Automatic

STRUCT. NO. 101-0100 Station 273+82 Latitude 42° 18' 29.49" N Longitude -89° 08' 37.54" W Northing 2,056,492.7837 Easting 2,573,268.4436

BORING NO. B-2 Station 273+82 Offset 20.00ft Lt of CL of bridge Ground Surface Elev. 744.41 ft

Table with columns for Soil Description, Depth (ft), Blows (6"), SPT (tsf), and Moisture (%). Includes soil types like STIFF gray SILTY CLAY, STIFF gray SILTY LOAM, etc.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Boring No. B-2 at Sta. 185+64 measured along Proposed Springfield Ave. & PGL



ROCK CORE LOG

ROUTE FAP 525 (Springfield Ave) DESCRIPTION P92-004-20 Bridge over Kent Creek, 0.5 mi S of IL 70 LOGGED BY W. Garza

SECTION 111BR LOCATION Rockford, NE8, SEC., TWP. 44N, RNG. 1E

COUNTY Winnebago CORING METHOD Diamond bit core barrel

STRUCT. NO. 101-0100 Station 273+82 Latitude 42° 18' 29.49" N Longitude -89° 08' 37.54" W Northing 2,056,492.7837 Easting 2,573,268.4436

BORING NO. B-2 Station 273+82 Offset 20.00ft Lt of CL of bridge Ground Surface Elev. 744.41 ft

Table with columns for Core Description, Depth (ft), Recovery (%), and Strength (tsf). Includes Dolostone and T.S.F. data.

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938) BBS, form 138 (Rev. 8-99)

Boring No. B-2 at Sta. 185+64 measured along Proposed Springfield Ave. & PGL

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Table with columns for USER NAME, DESIGNED, CHECKED, PLOT SCALE, PLOT DATE, and their respective values.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS II STRUCTURE NO. 101-0229 SHEET 31 OF 33 SHEETS

Table with columns for F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., and CONTRACT NO.



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 2

Date 1/29/20

ROUTE FAP 525 (Springfield Ave) DESCRIPTION P92-004-20 Bridge over Kent Creek, 0.5 mi S of IL 70 LOGGED BY W. Garza

SECTION 111BR LOCATION Rockford, NE8, SEC., TWP. 44N, RNG. 1E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-75 Automatic

STRUCT. NO. 101-0100 Station Latitude 42° 18' 28.04" Longitude -89° 08' 38.35" Northing 2,056,345.5562 Easting 2,573,209.3433

BORING NO. Station Offset Ground Surface Elev. ft	D E P T H S ft	B L O W S Qu T	U C S Qu T	M O I S T %	Description	Elev. ft	D E P T H S ft	B L O W S Qu T	U C S Qu T	M O I S T %
			1.8	14.0	STIFF light brown SANDY LOAM with GRAVEL					
						741.50				
			4	2.3	VERY STIFF gray CLAY LOAM					
			5	P		740.00				
					No Recovery					
			4							
			4			737.50				
			5							
			2		STIFF gray CLAY LOAM					
			3	1.2	MEDIUM light brown MEDIUM COARSE SAND					
			4	B		735.00				
					5' Run					
			2		MEDIUM/Stiff gray LOAM with SAND LENS					
			3	2.0						
			4	P		732.50				
					MEDIUM gray SANDY LOAM					
			2							
			6	0.8	VERY DENSE tan SANDY GRAVEL					
			6	P		711.50				
					5' Run					
			1		Wash					
			4							
			6			710.00				
					LOOSE/MEDIUM gray MEDIUM COARSE SAND					
			1							
			4			729.00				
			6							
					LOOSE/MEDIUM light brown FINE SAND					
			2							
			5		DENSE tan SANDY GRAVEL					
			5			706.50				
					Wash					
						705.00				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Boring No. B-3 at Sta. 187+21 measured along
⊥ Proposed Springfield Ave. & PGL



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 2 of 2

Date 1/29/20

ROUTE FAP 525 (Springfield Ave) DESCRIPTION P92-004-20 Bridge over Kent Creek, 0.5 mi S of IL 70 LOGGED BY W. Garza

SECTION 111BR LOCATION Rockford, NE8, SEC., TWP. 44N, RNG. 1E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-75 Automatic

STRUCT. NO. 101-0100 Station Latitude 42° 18' 28.04" Longitude -89° 08' 38.35" Northing 2,056,345.5562 Easting 2,573,209.3433

BORING NO. Station Offset Ground Surface Elev. ft	D E P T H S ft	B L O W S Qu T	U C S Qu T	M O I S T %	Description	Elev. ft	D E P T H S ft	B L O W S Qu T	U C S Qu T	M O I S T %
					DENSE tan FINE SAND					
			14							
			14		Wash					
			18			702.50				
					DENSE tan FINE SAND					
			10							
			15		Wash					
			20			700.00				
					VERY DENSE tan FINE SAND					
			12							
			27		Wash					
			41			697.50				
					VERY DENSE tan WEATHERED LIMESTONE					
			10							
			13							
			100		Auger refusal @ 50' End of Boring					
			3			695.00				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

Boring No. B-3 at Sta. 187+21 measured along
⊥ Proposed Springfield Ave. & PGL

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS III
STRUCTURE NO. 101-0229
SHEET 32 OF 33 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	52
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				

F.A.S. ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	S. NO.
1058 III B	WINNEBAGO	9	1	
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT S-1097(I)			

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
FEDERAL-AID SECONDARY PROJECT**

INDEX OF SHEETS

SHEET NO. 1	COVER SHEET
SHEET NO. 2	PLAN AND PROFILE - TYPICAL SECTIONS
SHEET NO. 3	GENERAL PLAN AND ELEVATION BRIDGE
SHEET NO. 4	DECK DETAILS
SHEET NO. 5	STRUCTURAL STEEL
SHEET NO. 6	HANDRAIL DETAILS
SHEET NO. 7	PIERS 1 AND 2
SHEET NO. 8	ABUTMENTS
SHEET NO. 9	STANDARD 2113

PLAN 1 INCH = 100 FEET
PROFILE HOR. 1 INCH = 100 FEET
PROFILE VERT. 1 INCH = 10 FEET

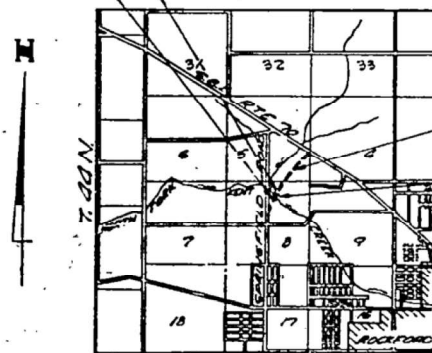
**F.A.S. ROUTE 1058 SECTION III B WINNEBAGO COUNTY
PROJECT S-1097(I)**

NET LENGTH OF SECTION III B = 114.33' = .022 MILES
NET LENGTH OF PROJECT S-1097(I) = 114.33' = .022 MILES

SUMMARY OF QUANTITIES

4,600	CU. YDS.	EARTH EXCAVATION
4000	CU. YDS.	CHANNEL EXCAVATION
310.6	CU. YDS.	CLASS X CONCRETE
4.9	CU. YDS.	HANDRAIL CONCRETE
145,570	LBS.	FURNISHING AND ERECTING STRUCTURAL STEEL
224	LIN. FT.	FURNISHING AND ERECTING METAL HANDRAIL
44,490	LBS.	REINFORCEMENT BARS
1,222	LIN. FT.	FURNISHING PRECAST CONCRETE PILES, 14 IN.
1,222	LIN. FT.	DRIVING PRECAST CONCRETE PILES
2	EACH	TEST PILES (PRECAST CONCRETE)
540	LIN. FT.	FURNISHING CREOSOTED PILES, UP TO 20 FT.
540	LIN. FT.	DRIVING TIMBER PILES
1	EACH	TEST PILES (TIMBER)
1	EACH	NAME PLATES
1,094	SQ. YDS.	SLOPE WALL

SECTION III B BEGINS STA. 272+52.83
SECTION III B ENDS STA. 273+67.16



PROPOSED ROAD ALIGNMENT

SECTION III B INCLUDES

THREE SPAN - FOUR LANE CONTINUOUS STEEL I^w BEAM BRIDGE; SPANS 35'-0\"/>

GEORGE R. SCHROEDER
COUNTY SUPT. OF HIGHWAYS

EXAMINED June 30, 1959
K.M. Romine
ENGINEER OF BRIDGE & TRAFFIC STRUCTURES

N. Fork of KENT CREEK
Reel 12-52
273+10
111B

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS			
SUBMITTED	June 7, 1959	M.M. Humber DISTRICT ENGINEER	
PASSED	6-30-59	K.M. Romine ENGINEER OF LOCAL ROADS AND STREETS	
APPROVED	6-30-59	R.R. Bartelmann CHIEF HIGHWAY ENGINEER	
APPROVED	6-30-59	E.A. Rose DIRECTOR	

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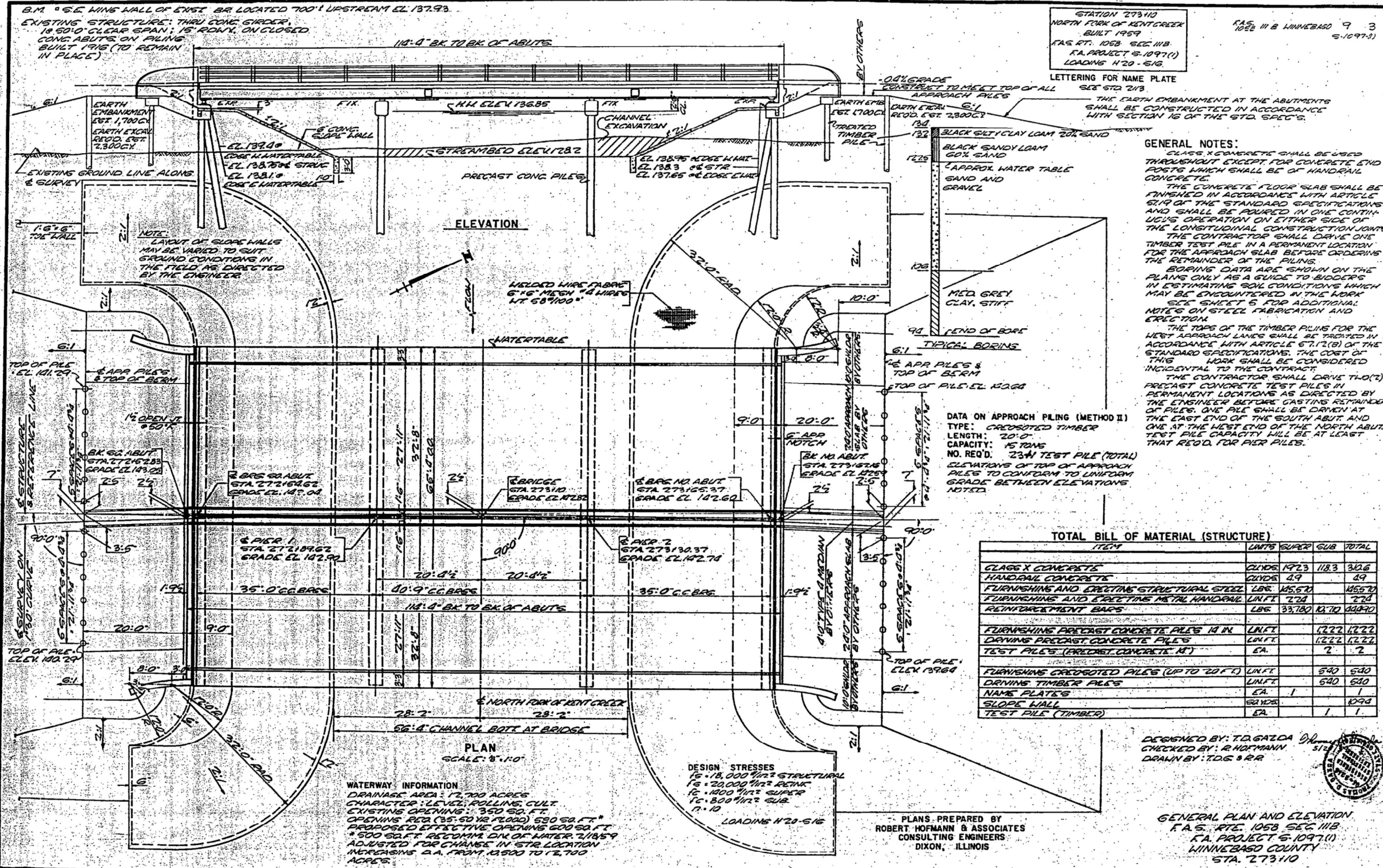
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PLOT DATE =	DRAWN - ES	REVISED -
	CHECKED - MJW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS I
STRUCTURE NO. 101-0229

SHEET EX1 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	54
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				



STATION 27310
 NORTH FORK OF KENT CREEK
 BUILT 1959
 F.A.S. RT. 1068 SEC. 11B
 F.A. PROJECT 5-1097(1)
 LOADINGS H 20-516

LETTERING FOR NAME PLATE
 SEE STD 213
 THE EARTH EMBANKMENT AT THE ABUTMENTS
 SHALL BE CONSTRUCTED IN ACCORDANCE
 WITH SECTION 16 OF THE STD. SPEC'S.

GENERAL NOTES:
 CLASS X CONCRETE SHALL BE USED
 THROUGHOUT EXCEPT FOR CONCRETE END
 POSTS WHICH SHALL BE OF HANDRAIL
 CONCRETE.
 THE CONCRETE FLOOR SLAB SHALL BE
 FINISHED IN ACCORDANCE WITH ARTICLE
 519 OF THE STANDARD SPECIFICATIONS
 AND SHALL BE POURED IN ONE CONTINU-
 UOUS OPERATION ON EITHER SIDE OF
 THE LONGITUDINAL CONSTRUCTION JOINTS.
 THE CONTRACTOR SHALL DRIVE ONE
 TIMBER TEST PILE IN A PERMANENT LOCATION
 FOR THE APPROACH SLAB BEFORE ORDERING
 THE REMAINDER OF THE PILING.
 BORING DATA ARE SHOWN ON THE
 PLANS ONLY AS A GUIDE TO BIDDERS
 IN ESTIMATING SOIL CONDITIONS WHICH
 MAY BE ENCOUNTERED IN THE WORK.
 SEE SHEET 5 FOR ADDITIONAL
 NOTES ON STEEL FABRICATION AND
 ERECTION.
 THE TOPS OF THE TIMBER PILING FOR THE
 WEST APPROACH LANES SHALL BE TREATED IN
 ACCORDANCE WITH ARTICLE 67.12(B) OF THE
 STANDARD SPECIFICATIONS. THE COST OF
 THIS WORK SHALL BE CONSIDERED
 INCIDENTAL TO THE CONTRACT.
 THE CONTRACTOR SHALL DRIVE TWO (2)
 PRECAST CONCRETE TEST PILES IN
 PERMANENT LOCATIONS AS DIRECTED BY
 THE ENGINEER BEFORE CASTING REMAINDER
 OF PILES. ONE PILE SHALL BE DRIVEN AT
 THE EAST END OF THE SOUTH ABUT. AND
 ONE AT THE WEST END OF THE NORTH ABUT.
 TEST PILE CAPACITY WILL BE AT LEAST
 THAT REQ'D. FOR PIER PILES.

DATA ON APPROACH PILING (METHOD II)
 TYPE: CRODNOTED TIMBER
 LENGTH: 20'-0"
 CAPACITY: 15 TONS
 NO. REQ'D: 2341 TEST PILE (TOTAL)
 ELEVATIONS OF TOP OF APPROACH
 PILES TO CONFORM TO UNIFORM
 GRADE BETWEEN ELEVATIONS
 NOTED.

TOTAL BILL OF MATERIAL (STRUCTURE)

ITEM	UNITS	SUPER	SUB	TOTAL
CLASS X CONCRETE	CYDS	1923	118.3	310.6
HANDRAIL CONCRETE	CYDS	49		49
FURNISHING AND ERECTING STRUCTURAL STEEL	LBS.	145,570		145,570
FURNISHING AND ERECTING METAL HANDRAIL	LNFT	228		228
REINFORCEMENT BARS	LBS.	33,780	12,170	45,950
FURNISHING PRECAST CONCRETE PILES 14 IN.	LNFT		1222	1222
DRIVING PRECAST CONCRETE PILES	LNFT		1222	1222
TEST PILES (PRECAST CONCRETE RT)	EA.		2	2
FURNISHING CRODNOTED PILES (UP TO 20 FT)	LNFT		540	540
DRIVING TIMBER PILES	LNFT		540	540
NAME PLATES	EA.	1		1
SLOPE WALL	CYDS			1098
TEST PILE (TIMBER)	EA.		1	1

DESIGNED BY: T.D. GAZDA
 CHECKED BY: R. HOFFMANN
 DRAWN BY: T.D.G. & R.R.

GENERAL PLAN AND ELEVATION
 F.A.S. RT. 1068 SEC. 11B
 F.A. PROJECT 5-1097(1)
 WINNEBAGO COUNTY
 STA. 27310

PLANS PREPARED BY
 ROBERT HOFFMANN & ASSOCIATES
 CONSULTING ENGINEERS
 DIXON, ILLINOIS

DESIGN STRESSES
 15 - 18,000 #/sq IN STRUCTURAL
 16 - 20,000 #/sq RETAIN
 16 - 1400 #/sq SUPER
 16 - 800 #/sq SUB.
 12 - 10
 LOADINGS H 20-516

WATERWAY INFORMATION
 DRAINAGE AREA: 17,700 ACRES
 CHARACTER: LEVEL, ROLLING, CULT
 EXISTING OPENING: 350 SQ. FT.
 OPENING REQ (35-50 YR FLOOD): 530 SQ. FT.
 PROPOSED EFFECTIVE OPENING: 600 SQ. FT.
 * 500 SQ. FT. RESERVING DIA. OF WATER: 21859
 ADJUSTED FOR CHANGE IN STR. LOCATION
 INCREASING D.A. FROM 14,500 TO 17,700
 ACRES.

For Reference Only

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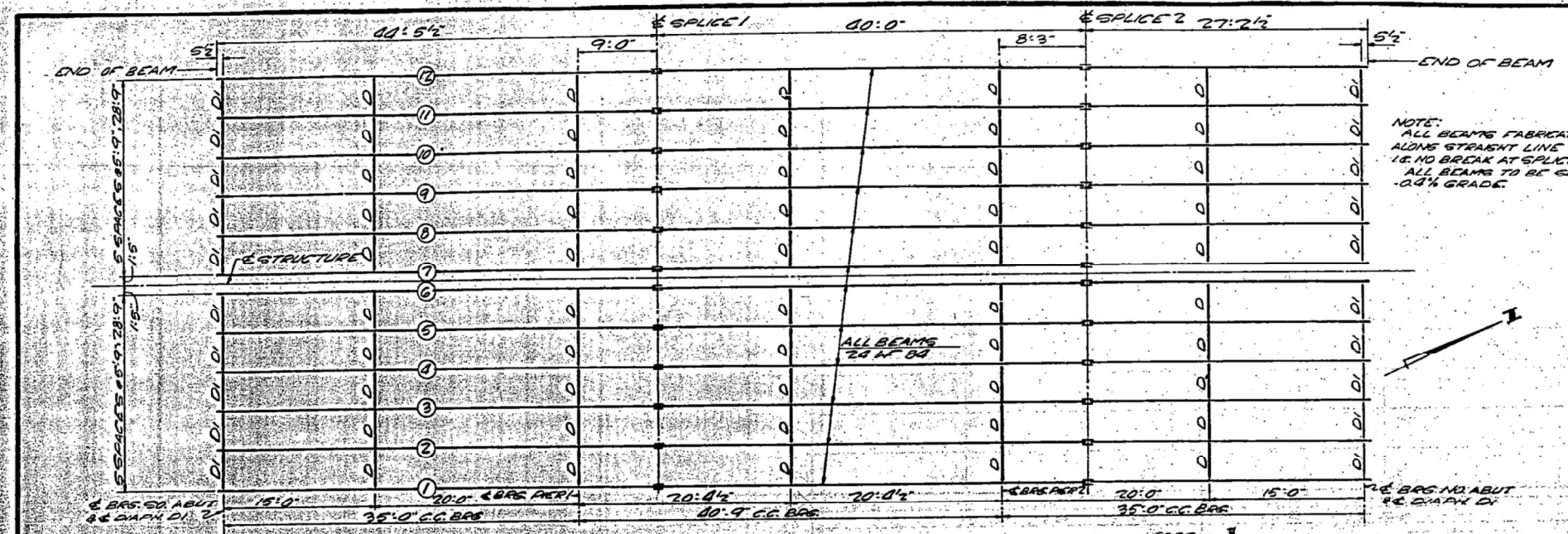
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PLOT SCALE =	CHECKED - MJW	REVISED -
PLOT DATE =	DRAWN - ES	REVISED -
	CHECKED - MJW	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING PLANS II
 STRUCTURE NO. 101-0229
 SHEET EX2 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	55
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				

F.A. ROUTE	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
1058	11B	WINNEBAGO	9	5



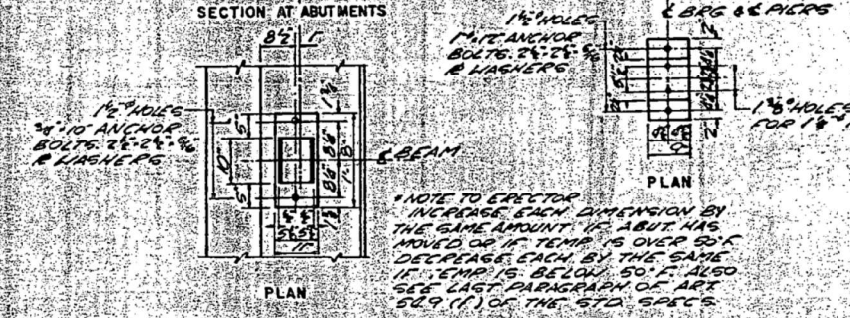
NOTE:
ALL BEAMS FABRICATED ALONG STRAIGHT LINE PROFILES 1/8" NO BREAK AT SPLICE.
ALL BEAMS TO BE SET AT 0.4% GRADE.

GENERAL NOTES:
ANCHOR BOLTS SHALL BE SET BEFORE RIVETING DIAPHRAGMS OVER SUPPORTS.
ALL STEEL CONNECTIONS SHALL BE RIVETED EXCEPT FOR THE CONTRACTOR'S OPTION TO USE HIGH STRENGTH BOLTS AS NOTED IN ARTICLE 54.9 (1) OF THE STANDARD SPECIFICATIONS.
ALL RIVETS 3/8" AND OPEN HOLE 3/8" EXCEPT IN BEAM SPLICES. ALL WF BEAM SPLICES SHALL SUB-PUNCHED, REAMED AND MATCH-MARKED. SUB-PUNCHED AND REAM TO PROPER SIZE.
ALL WF BEAMS SHALL BE SHOP ASSEMBLED TO THEIR PROPER GRADE AND ALIGNMENT, WITH OR WITHOUT DIAPHRAGMS, INSPECTED AND REPAIRED WHILE SO ASSEMBLED.
STRUCTURAL STEEL SHALL BE INSPECTED BY THE ILLINOIS DIVISION OF HIGHWAYS BEFORE PAINTING.
WELDING SHALL CONFORM WITH ARTICLE 54.5 (5) OF THE STANDARD SPECIFICATIONS.
ALL BEARING PLATES, ROLLERS, PINTLES AND ANCHOR BOLTS SHALL BE FABRICATED AND SET IN ACCORDANCE WITH SECTION 59 AND ARTICLE 51 OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN QUANTITY OF STRUCTURAL STEEL EST. 8,140 LBS.
THE ROADWAY EXPANSION GUARD SHALL BE FABRICATED AND ERECTED TO FIT THE CROWN OF THE ROADWAY. EXPANSION GUARDS ARE INCLUDED IN QUANTITY OF STRUCTURAL STEEL EST. 3,110 LBS.
ALL SURFACES OF THE ROADWAY EXPANSION GUARD EXCEPT THOSE TO BE IN CONTACT WITH CONCRETE, SHALL BE GIVEN TWO COATS OF RED LEAD AND TWO FIELD COATS OF ALUMINUM PAINT EXCEPT AS OTHERWISE PROVIDED. ALL STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COAT OF RED LEAD PAINT AND TWO FIELD COATS OF ALUMINUM PAINT. SEE ARTICLE 56.1 TO 56.5 INCLUSIVE OF THE STANDARD SPECIFICATIONS.
ALL PAINT SHALL BE FURNISHED AND APPLIED BY THE CONTRACTOR.

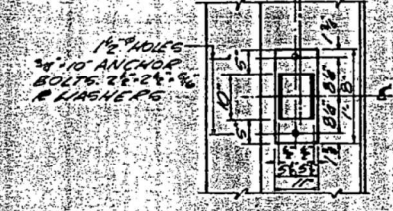
FRAMING PLAN



DIAPHRAGM DETAILS

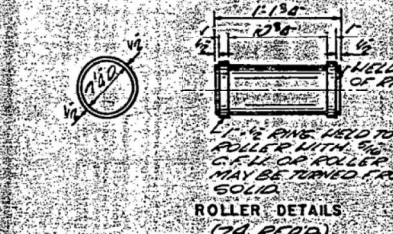


SECTION AT ABUTMENTS

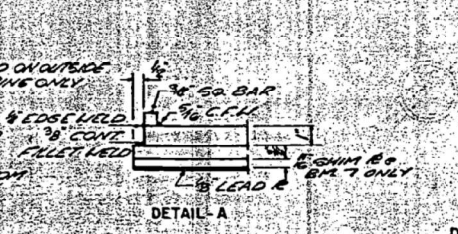


PLAN

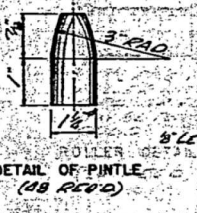
*NOTE TO ERECTOR INCREASE EACH DIMENSION BY THE SAME AMOUNT IF ABUT HAS MOVED OR IF TEMP IS OVER 50°F DECREASE EACH BY THE SAME IF TEMP IS BELOW 50°F ALSO SET LAST PARAGRAPH OF ART 54.9 (1) OF THE STD. SPECS.



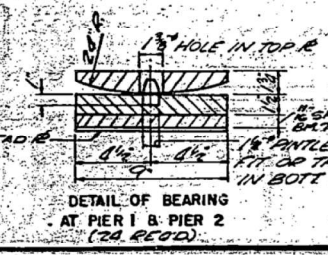
ROLLER DETAILS (20 REOD)



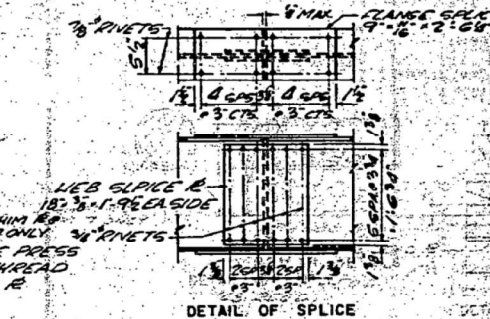
DETAIL A



DETAIL OF PINTLE (18 REOD)



DETAIL OF BEARING AT PIER 1 & PIER 2 (20 REOD)



DETAIL OF SPLICE

ELEVATIONS TOP OF WF BEAMS													
LOCATION	BM NO.	1	2	3	4	5	6	7	8	9	10	11	12
EBRG DA ABUT	1118.0	1119.25	1120.0	1121.5	1122.0	1123.5	1124.2	1125.7	1126.0	1127.0	1128.0	1129.0	1130.7
EBRG PIER 1	1167.0	1178.5	1189.0	1199.5	1210.0	1220.5	1231.0	1241.5	1252.0	1262.5	1273.0	1283.5	1294.0
ESPLICE 1	1167.4	1178.9	1189.4	1199.9	1210.4	1220.9	1231.4	1241.9	1252.4	1262.9	1273.4	1283.9	1294.4
EBRG PIER 2	1167.7	1179.2	1189.7	1199.2	1209.7	1220.2	1230.7	1241.2	1251.7	1262.2	1272.7	1283.2	1293.7
ESPLICE 2	1117.0	1158.9	1170.4	1181.9	1193.4	1204.9	1216.4	1227.9	1239.4	1250.9	1262.4	1273.9	1285.4
EBRG NO ABUT	1134.7	1145.2	1155.7	1166.2	1176.7	1187.2	1197.7	1208.2	1218.7	1229.2	1239.7	1250.2	1260.7

STRUCTURAL STEEL
F.A.S. RTE. 1058 SEC. 11B
F.A. PROJECT 1058-11B
WINNEBAGO COUNTY
STA. 273+10 OF SPLICE

For Reference Only

MODEL: Default
FILE NAME: WA\191-176 IDOT Springfield Ave Phase II\CADD_Sheets\Structural\1010229-D264P06-037-Existing Plans IV.dgn



USER NAME =	DESIGNED - ES	REVISED -
CHECKED - MJW	REVISED -	
PLOT SCALE =	DRAWN - ES	REVISED -
PLOT DATE =	CHECKED - MJW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS IV
STRUCTURE NO. 101-0229

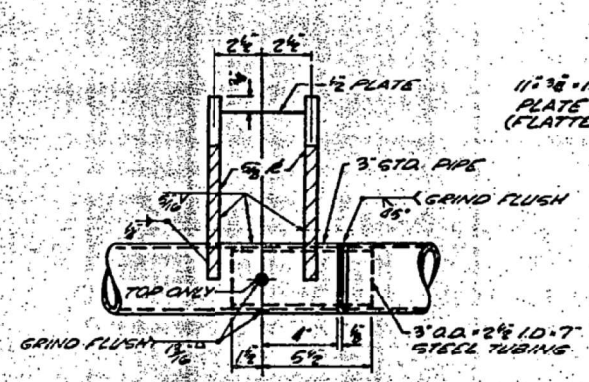
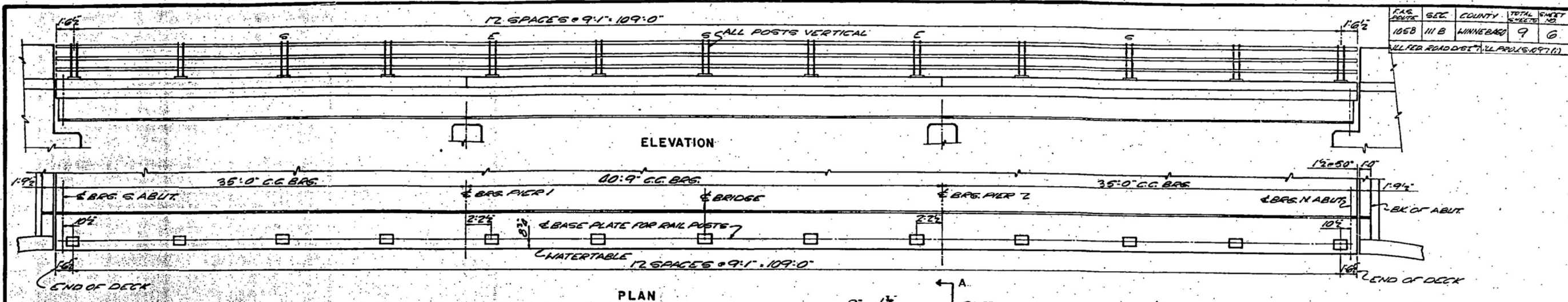
SHEET EX4 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	57

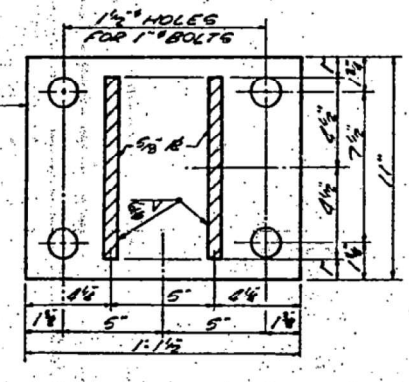
CONTRACT NO. 64P06

F.A.S. DISTRICT	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
1058	111 B	WINNEBAGO	9	6

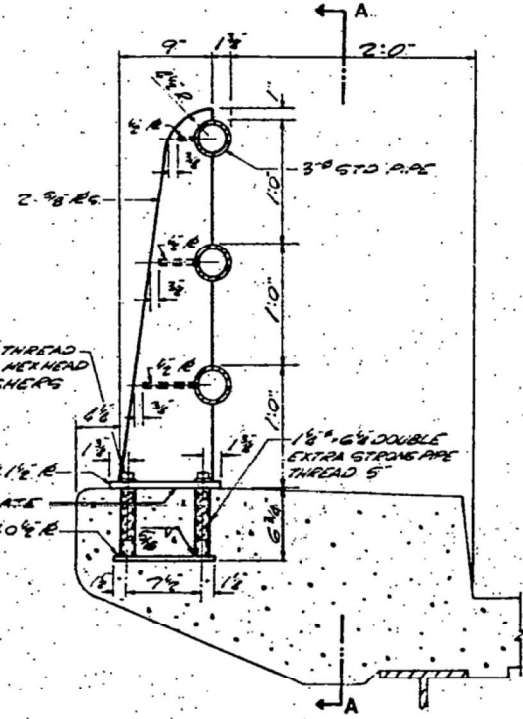
ILLINOIS ROAD & UTIL. PROJ. 5-1097(1)



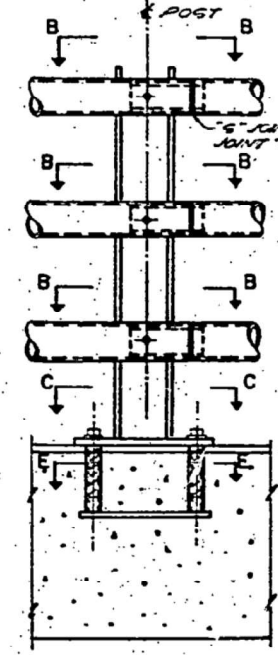
SECTION B-B AT JOINT "S"



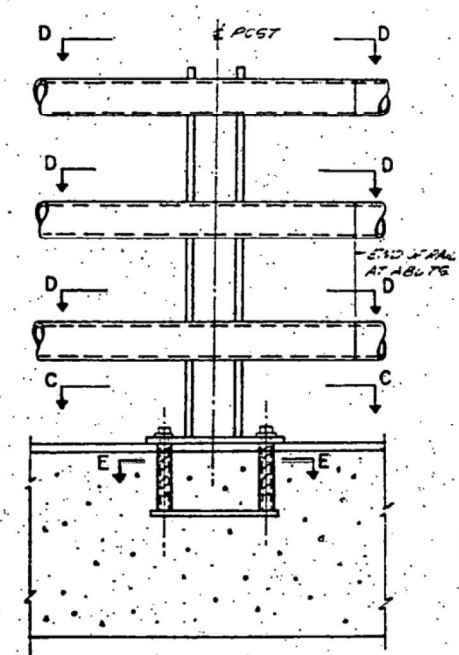
SECTION C-C



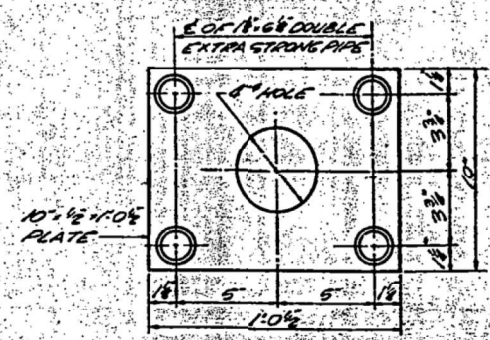
TYPICAL SECTION THRU RAILINGS



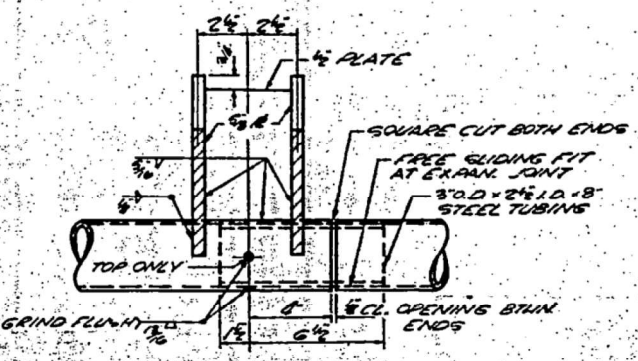
SECTION A-A FOR TYPICAL POST AT SPLICES "S"



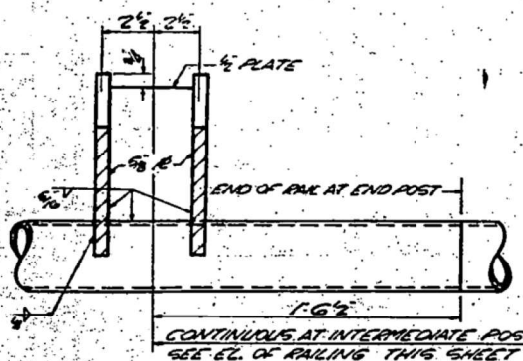
SECTION A-A FOR INTERMEDIATE AND END POSTS



SECTION E-E



SECTION B-B AT EXPANSION JOINT "E"



SECTION D-D

GRIND ALL TOUGH BURNED EDGES AND ALL WELDS SMOOTH AND FLUSH.
 ALL 3/4" PLATE FOR RAIL POSTS SHALL BE FLATTENED AFTER SHARPING AND BEFORE ASSEMBLING FOR WELDING WITH PIPE RAILS.
 FURNISH GRIND PLATES 1/4" & 2/4" FOR 1/2" OF ALL RAIL POSTS.
 RAIL PIPE SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR WELDED AND SEAMLESS STEEL PIPE ASTM A170 MIN. TENSILE STRENGTH OF 45,000 P.S.I.
 THE INSIDE OF THE PIPE RAILS SHALL BE GIVEN ONE SHARP COAT OF RED LEAD PAINT.

HANDRAIL DETAILS & SPACING
 F.A.S. RTE. 1058 SEC. 111 B
 F.A. PROJECT 5-1097(1)
 WINNEBAGO COUNTY
 STA. 273+10

MODEL: Default
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For Reference Only



USER NAME =	DESIGNED - ES	REVISED -
PLOT SCALE =	CHECKED - MJW	REVISED -
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	CHECKED - MJW	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

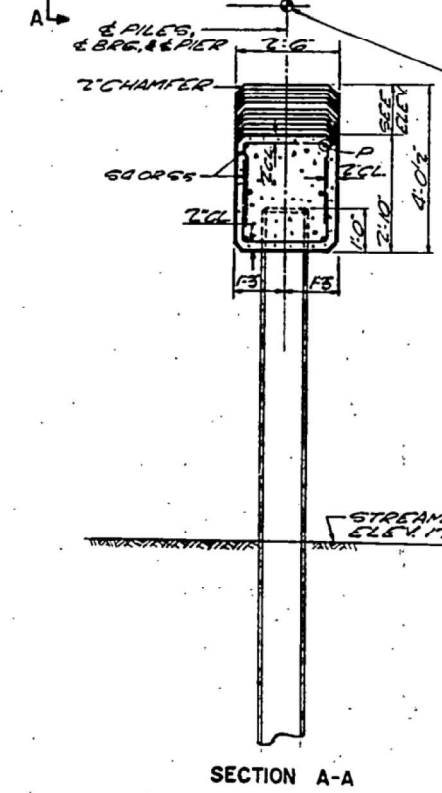
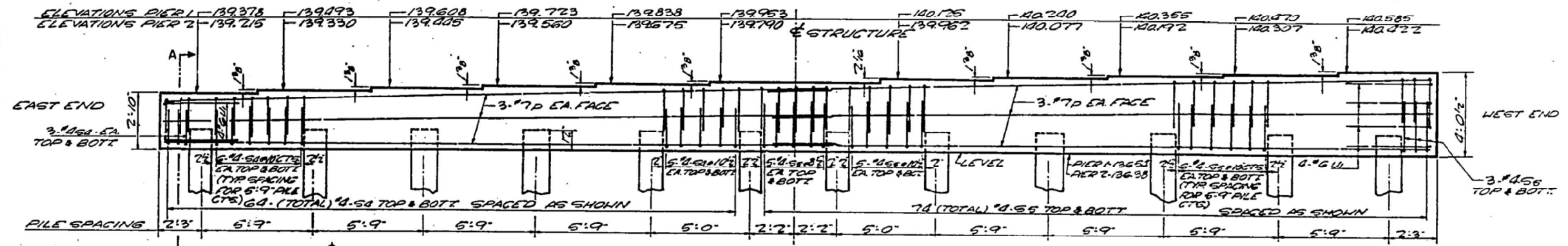
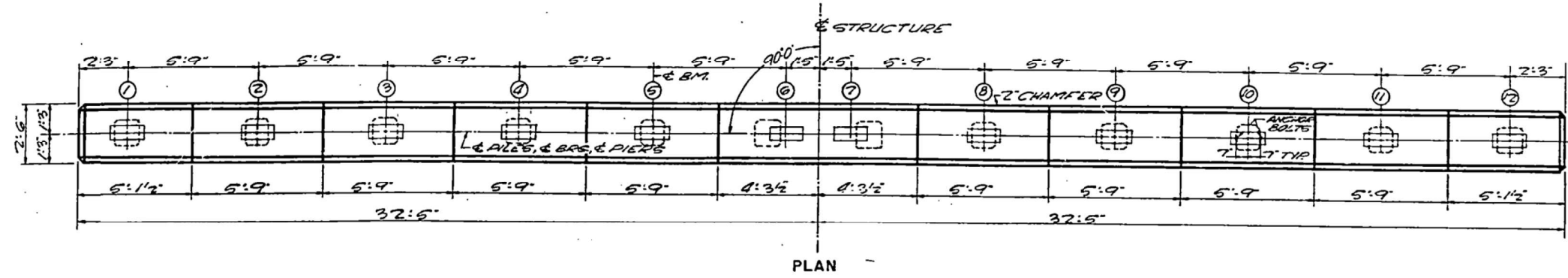
EXISTING PLANS V
 STRUCTURE NO. 101-0229

SHEET EX5 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	58

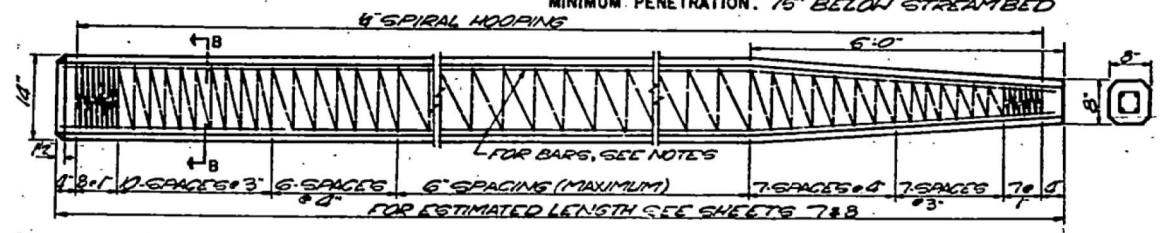
CONTRACT NO. 64P06

ILLINOIS FED. AID PROJECT

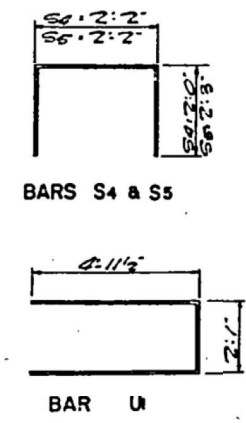


PIER 1
STA. 272189.62
GRADE ELEV. 142.90

PIER 2
STA. 273130.37
GRADE ELEV. 142.74



PILE DATA
TYPE: PRECAST CONCRETE PILES, 14 IN
MIN. CAPACITY: 35 TONS
EST. LENGTH: 28 FT.
NO. REQ'D.: 12 (EACH PIER)
MINIMUM PENETRATION: 15' BELOW STREAMBED



BILL OF MATERIAL - 2 PIERS

BAR NO.	SIZE	LENGTH	SHAPE
P	20	17	33:9
U	16	16	12:0
S4	128	14	6:2
S5	148	14	6:8

CLASS X CONC. CLYDS. 201
REINFORCEMENT BARS LBS. 3120
PRECAST CONC PILES LIN. FT. 672

NOTE:
FOR 14" PILES 45' LONG OR MORE USE 8" B BARS
FOR THE FULL LENGTH AND 4" TO THE POINT OF BEVEL
FOR 14" PILES UNDER 45' LONG USE 4" B BARS
THE FULL LENGTH.
HANDLING:
FOR PILE LENGTHS UP TO 45' USE TWO SLINGS
PLACED AT A DISTANCE OF 0.21 L FROM EACH END.
FOR PILES LONGER THAN 45' USE THREE SLINGS
PLACED AT A DISTANCE OF 0.21 L FROM EACH
END AND AT MID-POINT OF PILE.
*L OVER ALL LENGTH OF PILE TO HANDLED

PIERS 1 AND 2
F.A.S. RTE. 1068 SEC. 111B
F.A. PROJECT 5-1097(1)
WINNEBAGO COUNTY
STA. 273110

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FILE NAME: WA\191-176 IDOT_Springfield Ave Phase IICADD_Sheets\Structural\1010229-D264P06-039-Existing Plans_Vldgn

For Reference Only



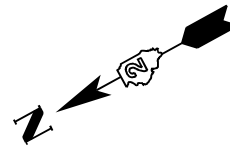
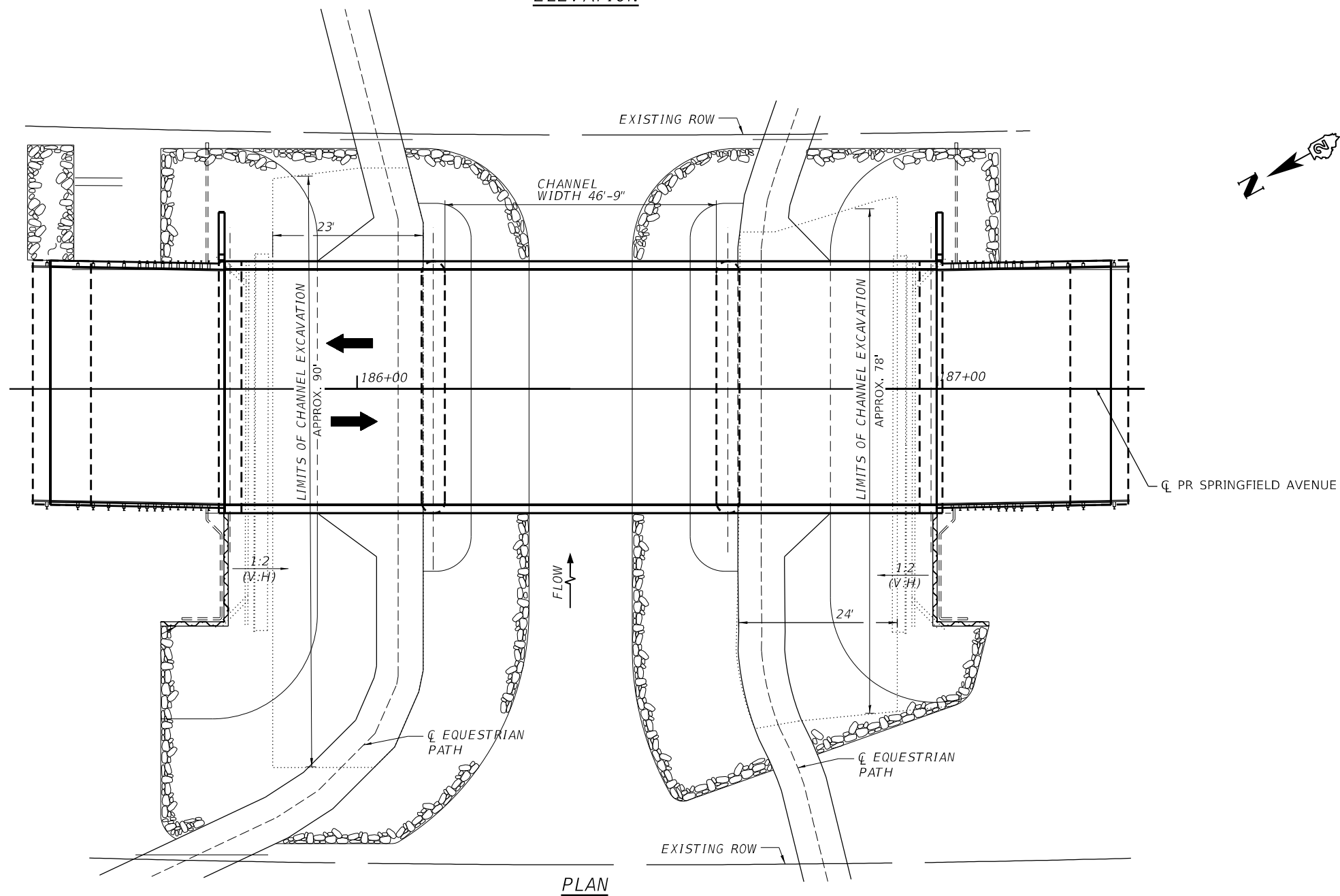
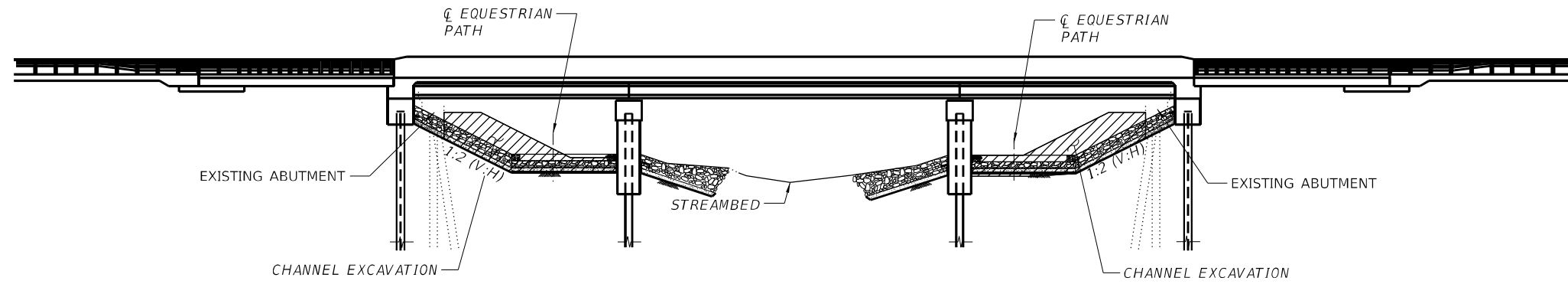
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PLOT DATE =	DRAWN - ES	REVISED -
	CHECKED - MJW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS VI
STRUCTURE NO. 101-0229

SHEET EX6 OF 7 SHEETS

F.A.P. RTE. 525	SECTION 111BR	COUNTY WINNEBAGO	TOTAL SHEETS 80	SHEET NO. 59
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				



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PLOT DATE = 7/22/2024	DATE -	REVISED -

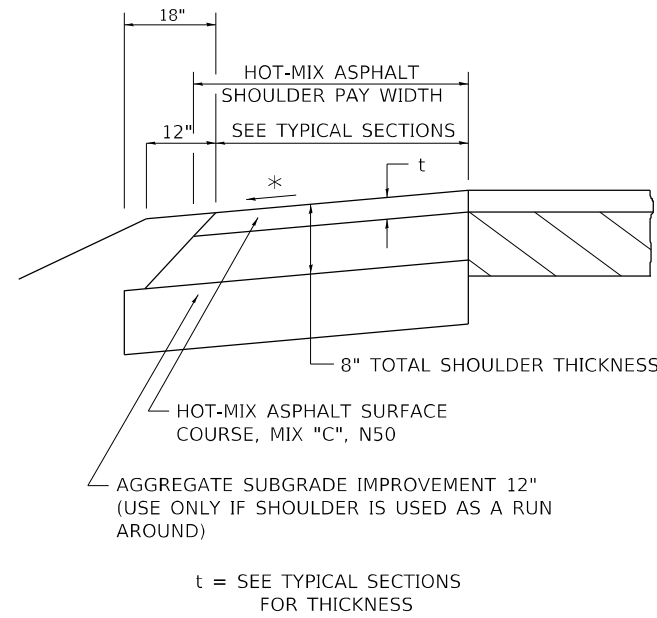
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHANNEL EXCAVATION DETAIL

SCALE: SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	61
				CONTRACT NO. 64P06
ILLINOIS FED. AID PROJECT				

HOT-MIX ASPHALT SHOULDER



GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50.

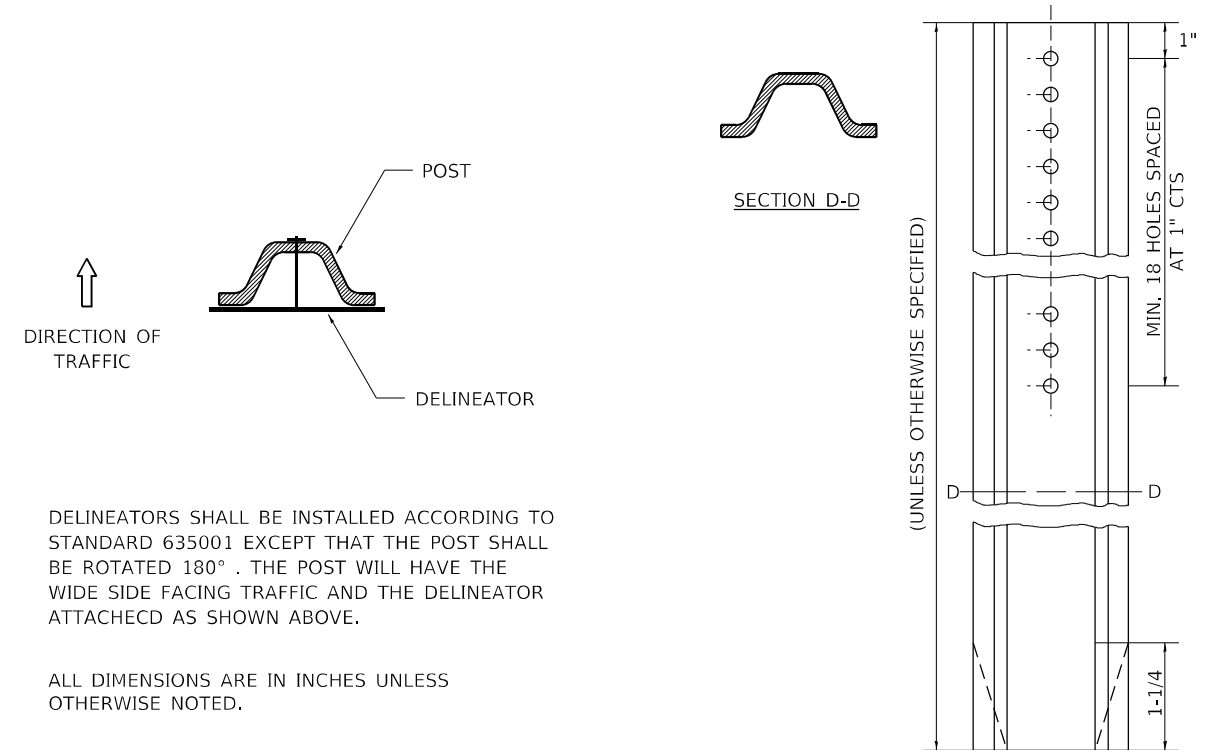
REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

REVISED - 1-05-16
REVISED - 3-13-13

HOT-MIX ASPHALT SHOULDER 22.4

DELINEATOR AND POST ORIENTATION



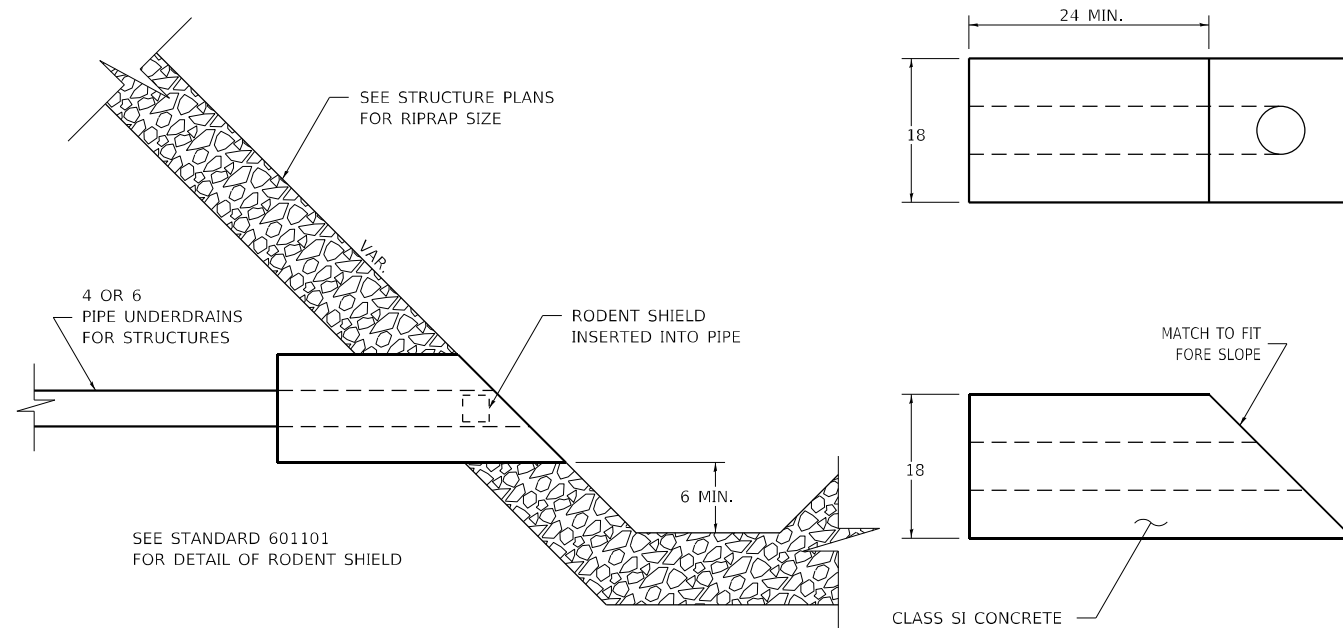
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-03-11

DELINEATOR AND POST ORIENTATION 37.4

CONCRETE HEADWALLS FOR PIPE UNDERDRAINS FOR STRUCTURES

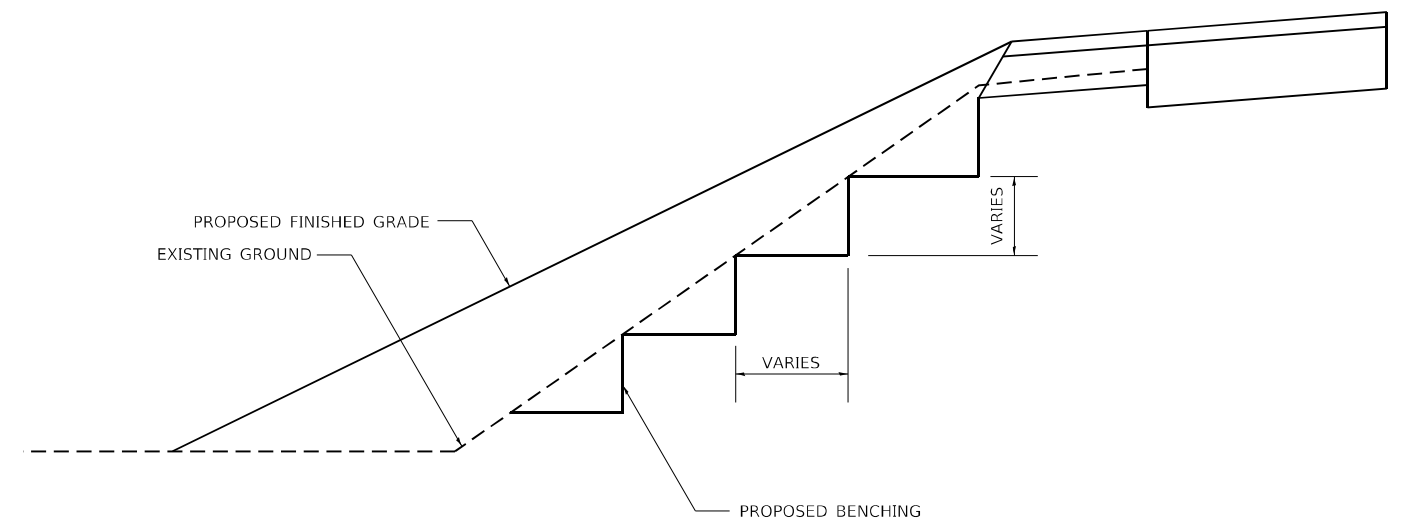


ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 9-28-17
REVISED - 11-12-14
REVISED - 10-03-11

CONCRETE HEADWALLS FOR PIPE UNDERDRAINS FOR STRUCTURES 27.4

TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

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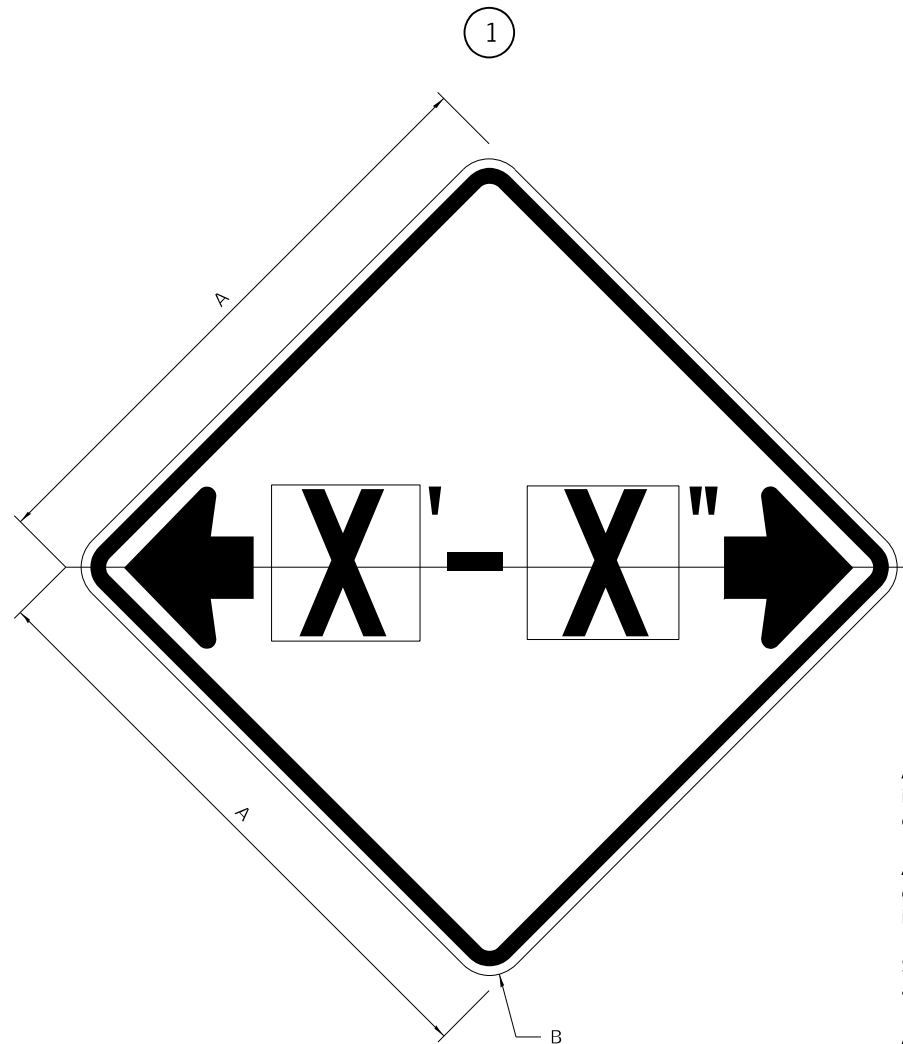
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD			
SCALE:	SHEET 2	OF SHEETS	STA. TO STA.

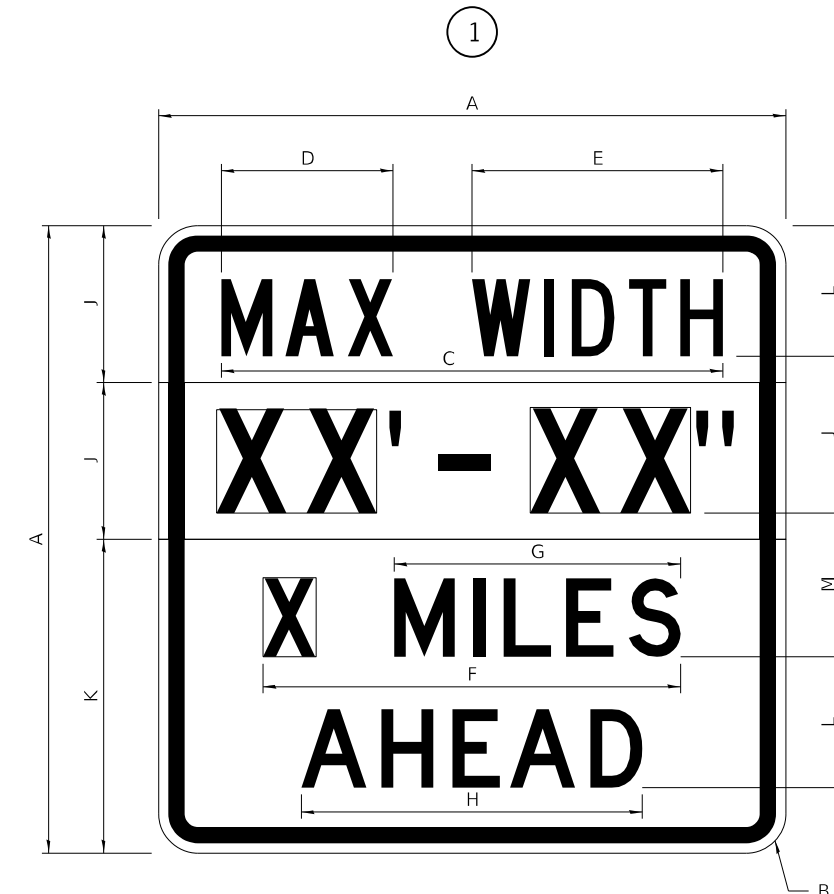
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	62
				CONTRACT NO. 64P06
ILLINOIS FED. AID PROJECT				

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD W12-I102



ILLINOIS STANDARD W12-I103



GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

COLOR LEGEND AND BORDER BACKGROUND BLACK FL ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

① Illinois Standard signs W12-I102 and W12-I103 shall be used as described in the special provisions.

SIGN SIZE	SERIES BY LINE	MARGIN	BORDER
	1		
48 x 48	12C	0.750	1.250

Sign not to scale

COLOR LEGEND AND BORDER BACKGROUND BLACK WHITE FL ORANGE NON-REFLECTORIZED REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
48 x 48	48.00	3.00	38.40	13.20	19.20	32.00	22.00	26.20	12.00	24.00	10.00	11.00

SIGN SIZE	SERIES BY LINE				MARGIN	BORDER
	1	2	3	4		
48 x 48	6C	8D	6D	6D	0.750	1.250

Sign not to scale

XX'-XX" WIDTH AND X MILES ARE VARIABLE TOP AND BOTTOM OF BACKGROUND WHITE

USER NAME = gellwanger	DESIGNED -	REVISED - 3-02-16
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PLOT DATE = 7/22/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

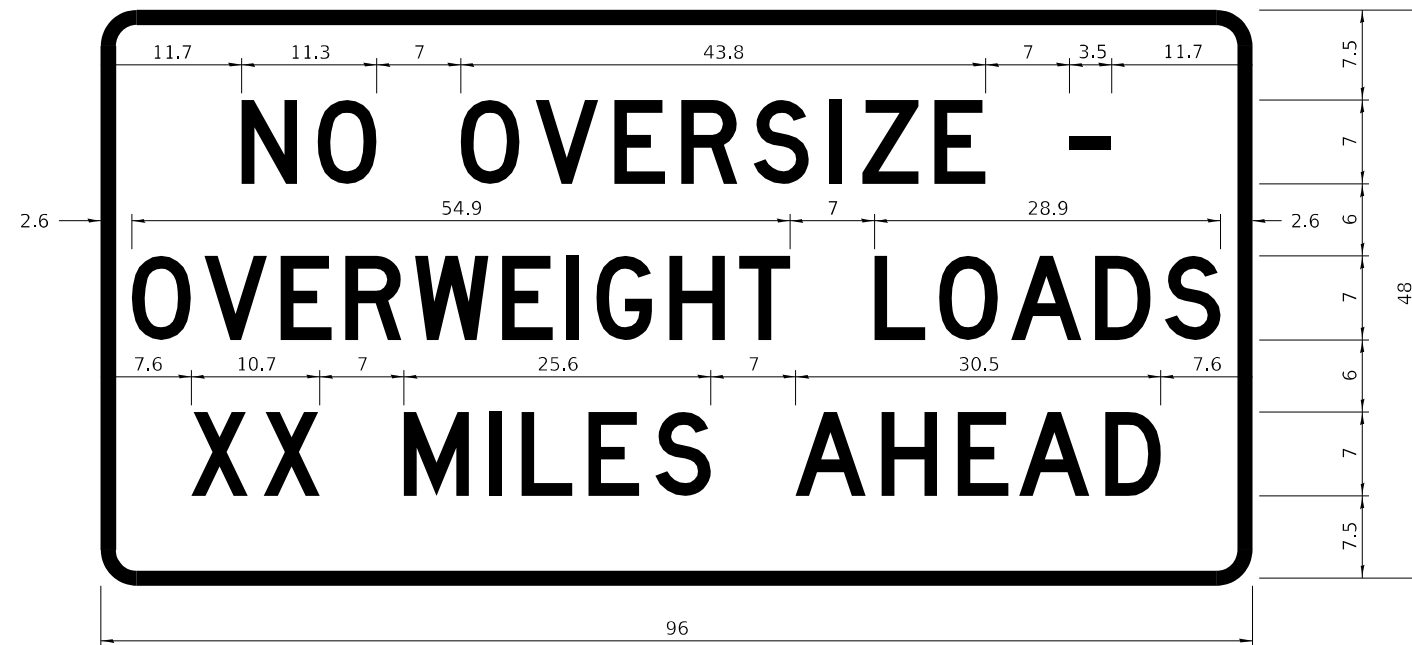
SCALE: SHEET 6 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	66
CONTRACT NO. 64P06				

WORK ZONE SIGN DETAILS

ROAD CLOSED TO OVERSIZED LOADS

STOP LINE SIGN FOR TEMPORARY SIGNALS



COLOR	LEGEND AND BORDER BACKGROUND	BLACK ORANGE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	--------------	---------------------------------

COLOR	LEGEND AND BORDER BACKGROUND	BLACK WHITE	NON-REFLECTORIZED REFLECTORIZED
-------	------------------------------	-------------	---------------------------------

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border;
 [NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D;
 Table of letter and object lefts.

SIGN SIZE	SERIES BY LINE		
	1	2	3
24 x 24	4C	4C	4C

N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.8	48.4	54.4	60.7	63.5	69.5	80.8

O	V	E	R	W	E	I	G	H	T	L	O	A	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7

X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	76.6	83.7

Sign not to scale

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

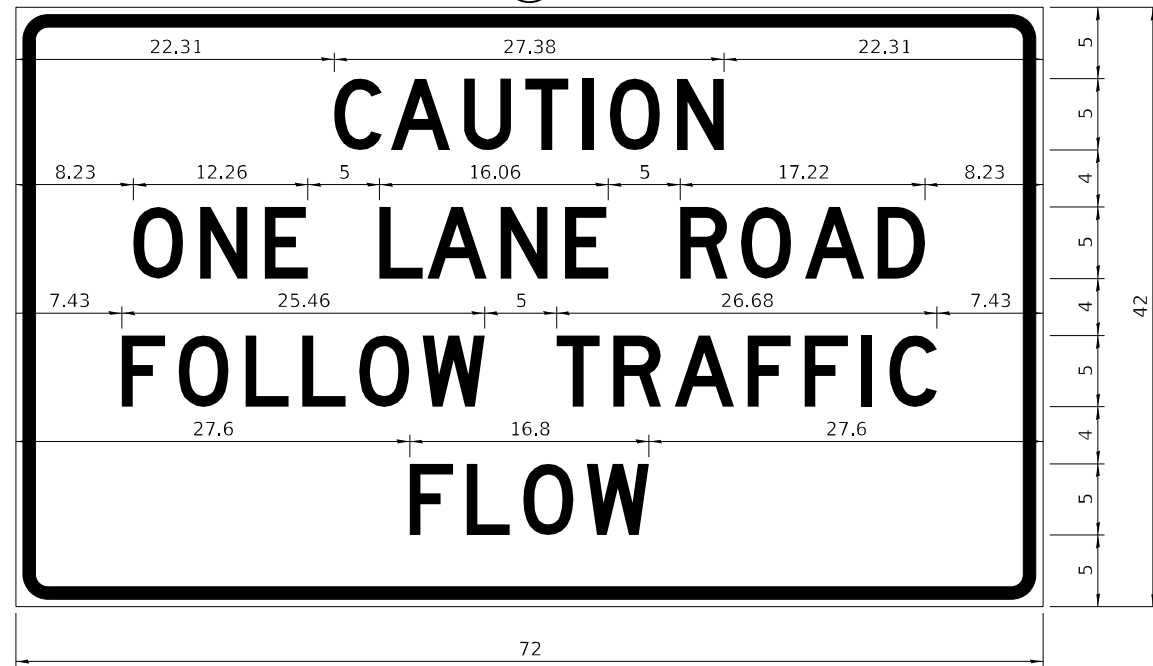
FILE NAME: W:\191-176 IDOT Springfield Ave Phase II\CADD Sheets\I264P06_SHT_Details.dgn	USER NAME = gellwanger	DESIGNED -	REVISED - 3-02-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 20,0000 * / in.	DRAWN -	REVISED -	525			111BR	WINNEBAGO	80	67	
PLOT DATE = 7/22/2024	CHECKED -	REVISED -	CONTRACT NO. 64P06							
	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

SCALE: SHEET 7 OF SHEETS STA. TO STA.

**ENTRANCE SIGN FOR USE
WITH TEMPORARY SIGNALS**

WORK ZONE SIGN DETAILS

2



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" Indent;
[CAUTION] D; [ONE LANE ROAD] D;
[FOLLOW TRAFFIC] D; [FLOW] D

2 This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

Table Of Widths And Spaces

22.31	C	0.62	A	0.94	U	0.94	T	0.94	I	1.17	O	1.17	N	3.36	22.31
	3.36		4.18		3.36		3.04		0.78		3.52		3.36		

8.23	O	1.17	N	1.18	E
	3.51		3.36		3.04

5.00	L	0.31	A	0.94	N	1.17	E
	3.05		4.18		3.36		3.05

5.00	R	0.93	O	0.94	A	0.93	D	8.23
	3.36		3.52		4.18		3.36	

7.43	F	0.94	O	1.17	L	0.94	L	0.94	O	0.94	W
	3.04		3.52		3.04		3.05		3.51		4.37

5.00	T	0.94	R	0.94	A	0.93	F	0.94	F	0.94	I	1.18	C	7.43
	3.05		3.36		4.18		3.05		3.04		0.78		3.35	

27.60	F	0.94	L	0.94	O	0.93	W	27.60
	3.05		3.04		3.52		4.38	

Sign not to scale

GENERAL NOTES

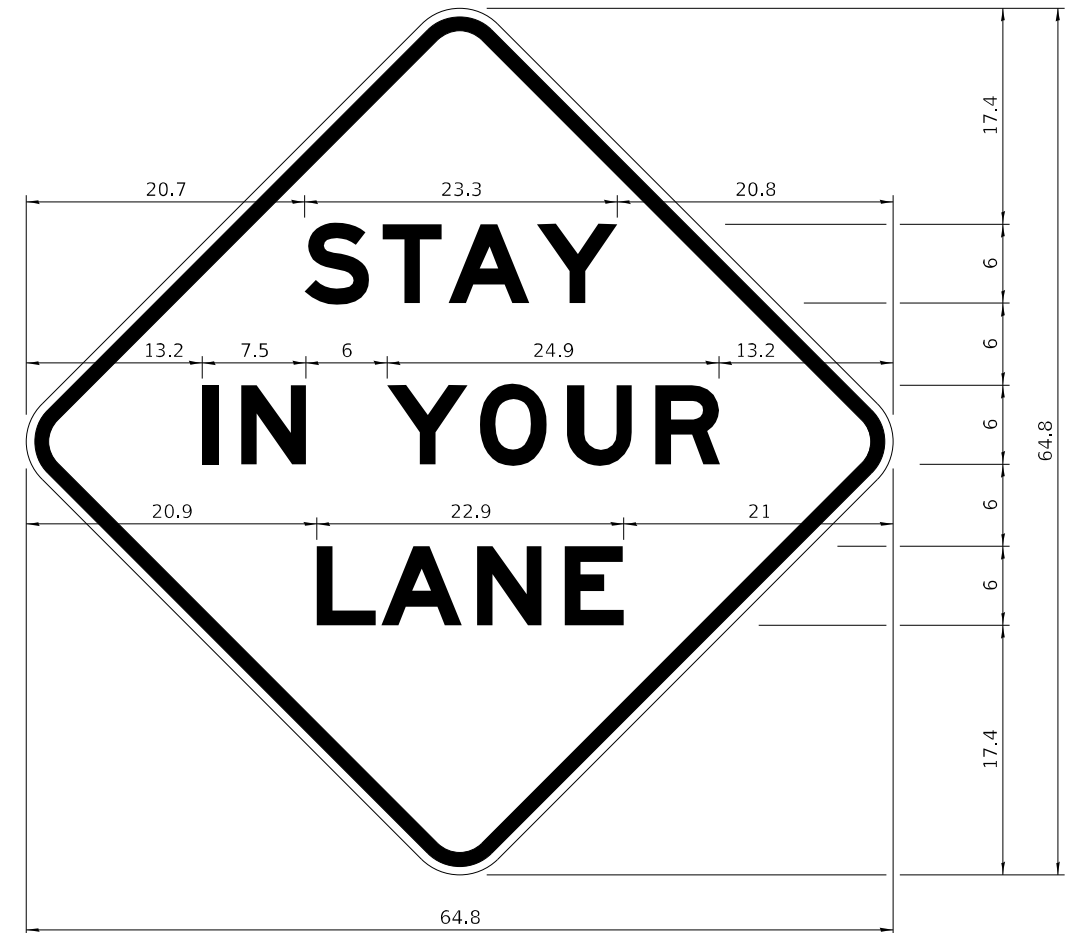
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

STAY IN YOUR LANE



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;
"STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

Table of Letter and Object Lefts

S	T	A	Y
20.7	26.8	31.6	38.0

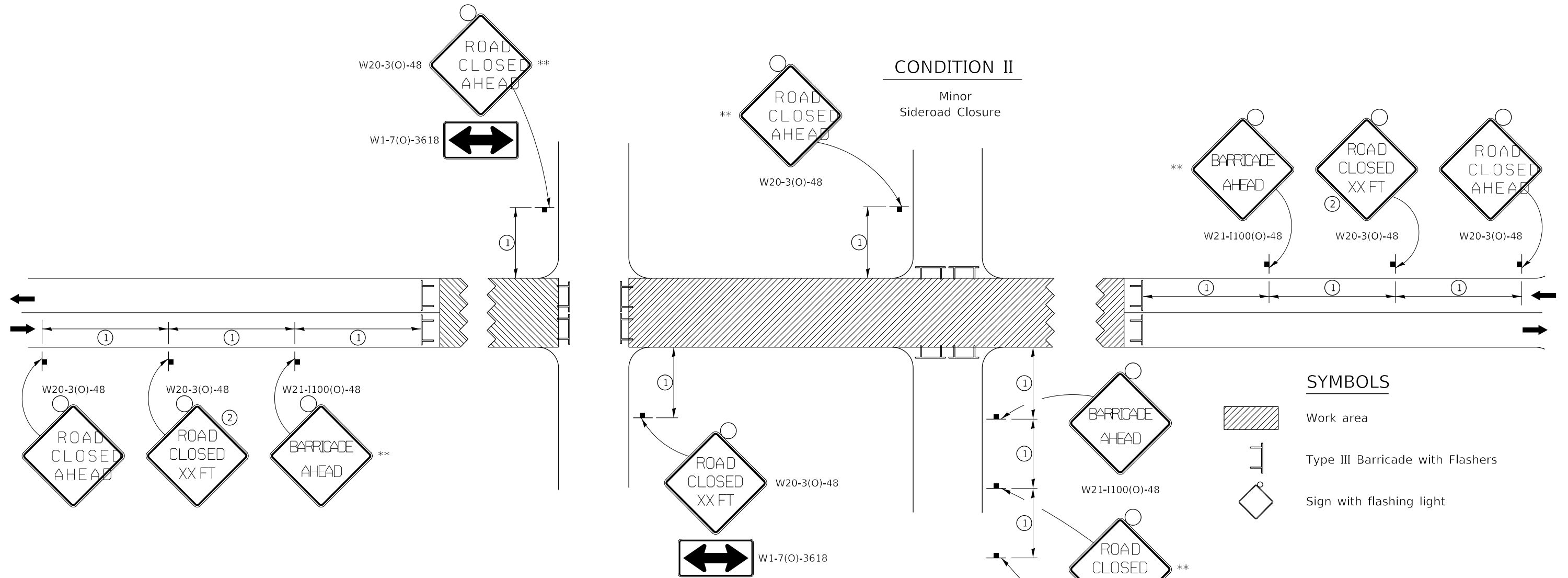
I	N	Y	O	U	R
13.2	15.9	26.7	33.9	40.5	46.8

L	A	N	E
20.9	25.8	33.1	39.4




Sign not to scale

FILE NAME: W:\191-176 IDOT Springfield Ave Phase II\CADD Sheets\D264P06_SHT_Details.dgn	USER NAME = gellwanger	DESIGNED -	REVISED - 3-02-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -	525			111BR	WINNEBAGO	80	68	
PLOT DATE = 7/22/2024	DATE -	REVISED -	CONTRACT NO. 64P06							
			SCALE:			SHEET 8 OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		

TRAFFIC CONTROL FOR ROAD CLOSURE



SYMBOLS

-  Work area
-  Type III Barricade with Flashers
-  Sign with flashing light

GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

** Where local access is to be maintained, barricades are to be set up as shown in "Road Closed to Thru Traffic". Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

All dimensions are in inches unless otherwise shown.

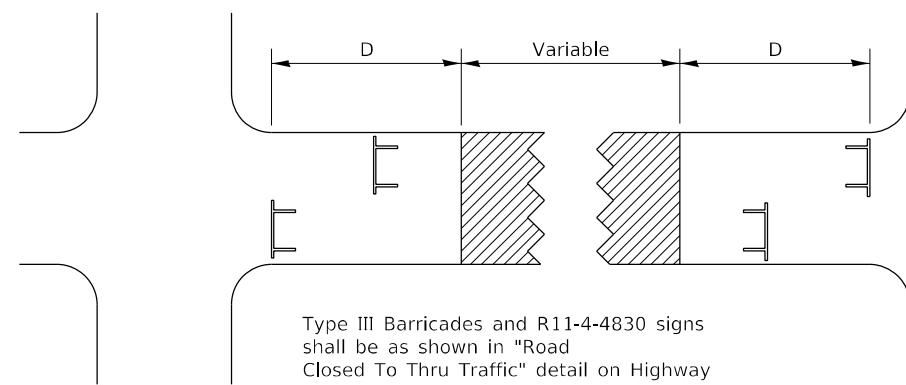
①

SIGN SPACING TABLE	
Posted Speed	Sign Spacing
45 MPH and above	500'
Below 45 MPH	250'

②

SIGN LEGEND	
Posted Speed Limit	Distance
45 MPH and above	1000'
Below 45 MPH	500'

ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



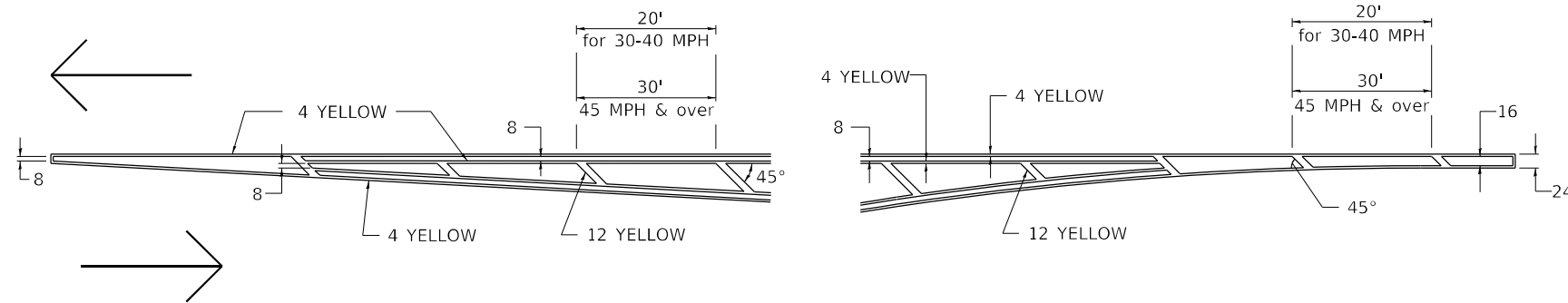
Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 2000' an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

TYPICAL APPLICATION FOR ROAD CLOSURE

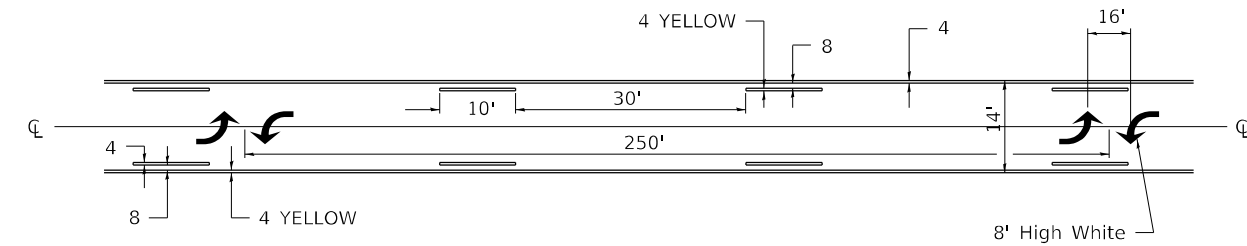
FILE NAME: W:\191-176 IDOT Springfield Ave Phase II\CADD Sheets\D264P06_SHT_Details.dgn	USER NAME = gellwanger	DESIGNED -	REVISED - 8-03-17	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
		DRAWN -	REVISED - 1-05-16		SCALE:	SHEET 9	OF	SHEETS	STA.	TO STA.	525	111BR	WINNEBAGO	80	69
		CHECKED -	REVISED - 8-27-13												
		DATE -	REVISED - 10-17-11												

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

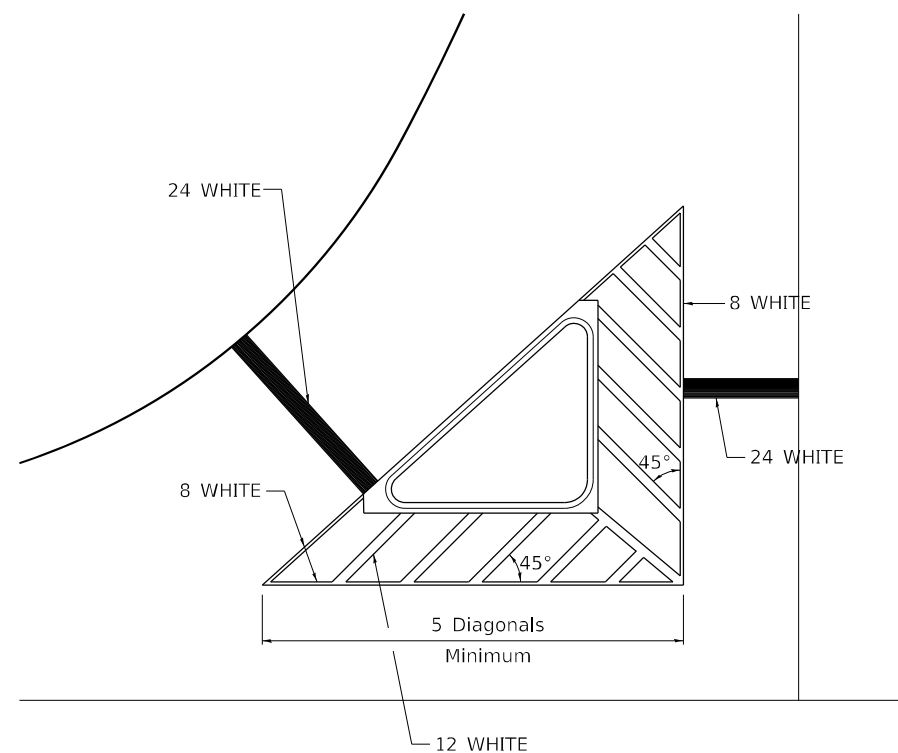


MEDIAN PAVEMENT MARKING



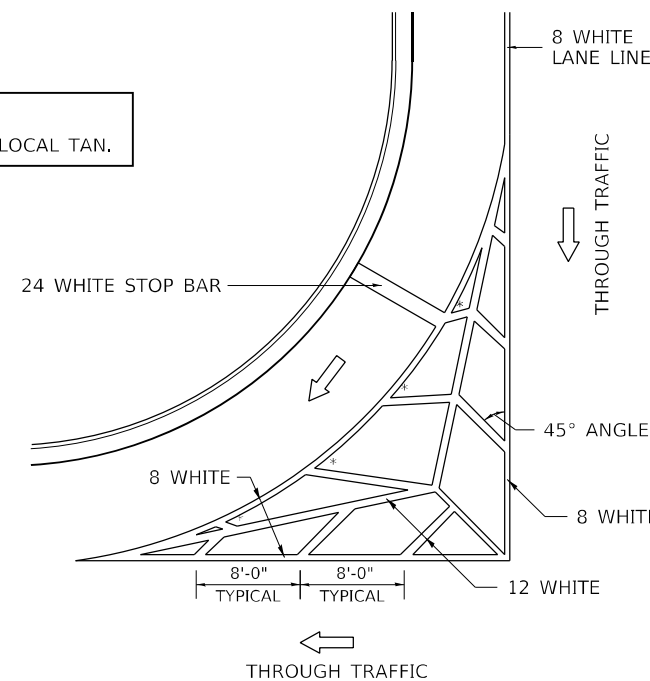
** ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



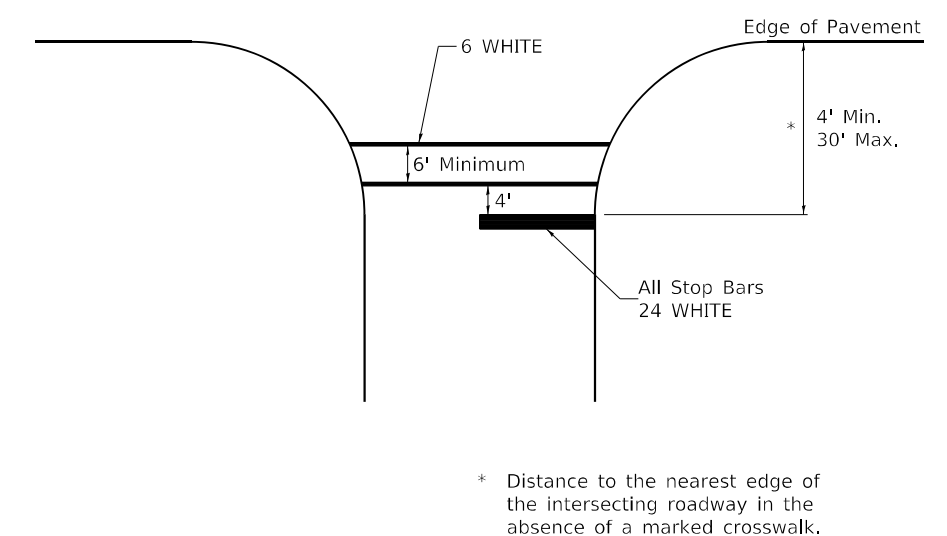
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations

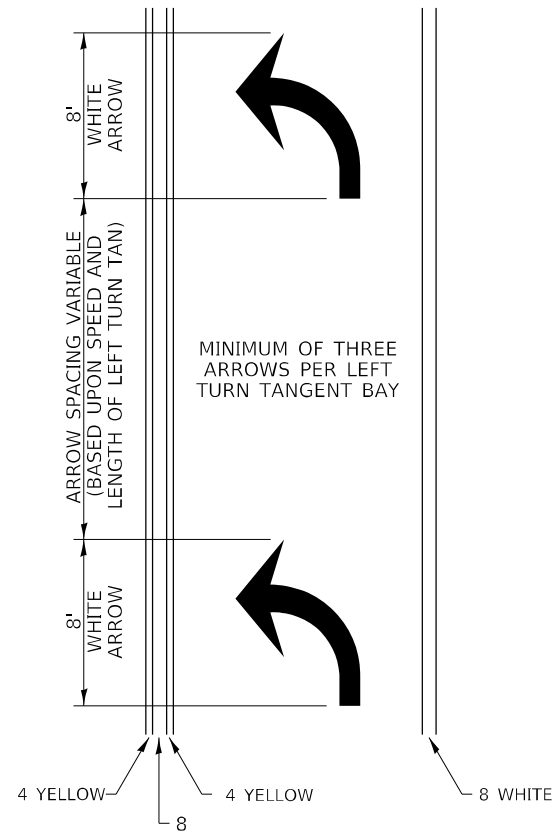


* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME: W:\191-176 IDOT Springfield Ave Phase II\CADD Sheets\I264P06_SHT_Details.dgn	USER NAME = gellwanger	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 20,0000 * / in.	DRAWN -	REVISED - 3-05-12					525	111BR	WINNEBAGO	80	70	
PLOT DATE = 7/22/2024	CHECKED -	REVISED -	SCALE:		SHEET 10	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT		
	DATE -	REVISED -	TYPICAL PAVEMENT MARKINGS SHEET 1 OF 3 41.1										

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT

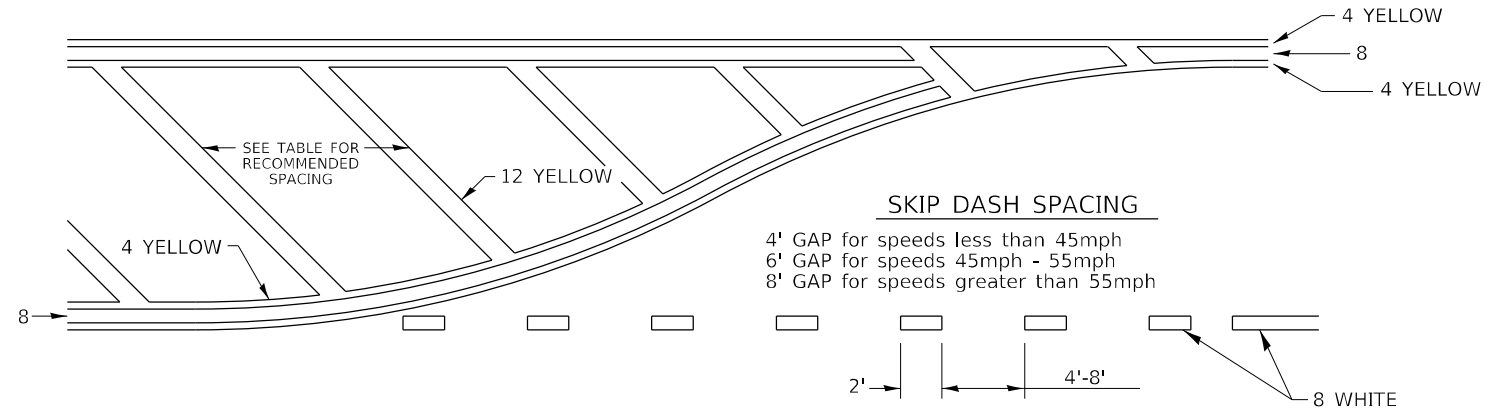


- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

6 at 40' O.C. APPROACH SIDE ONLY

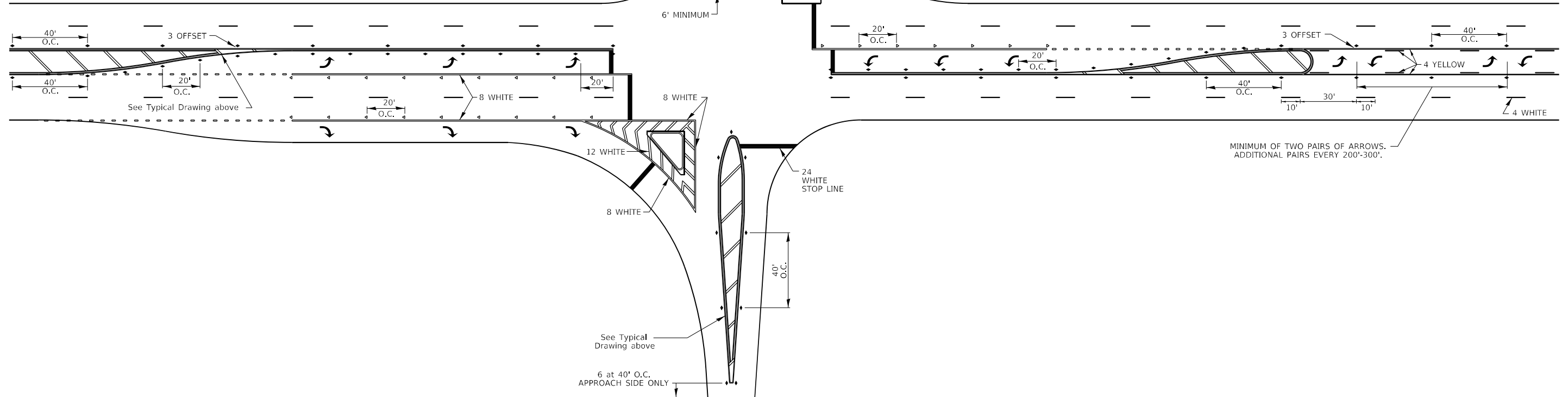
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

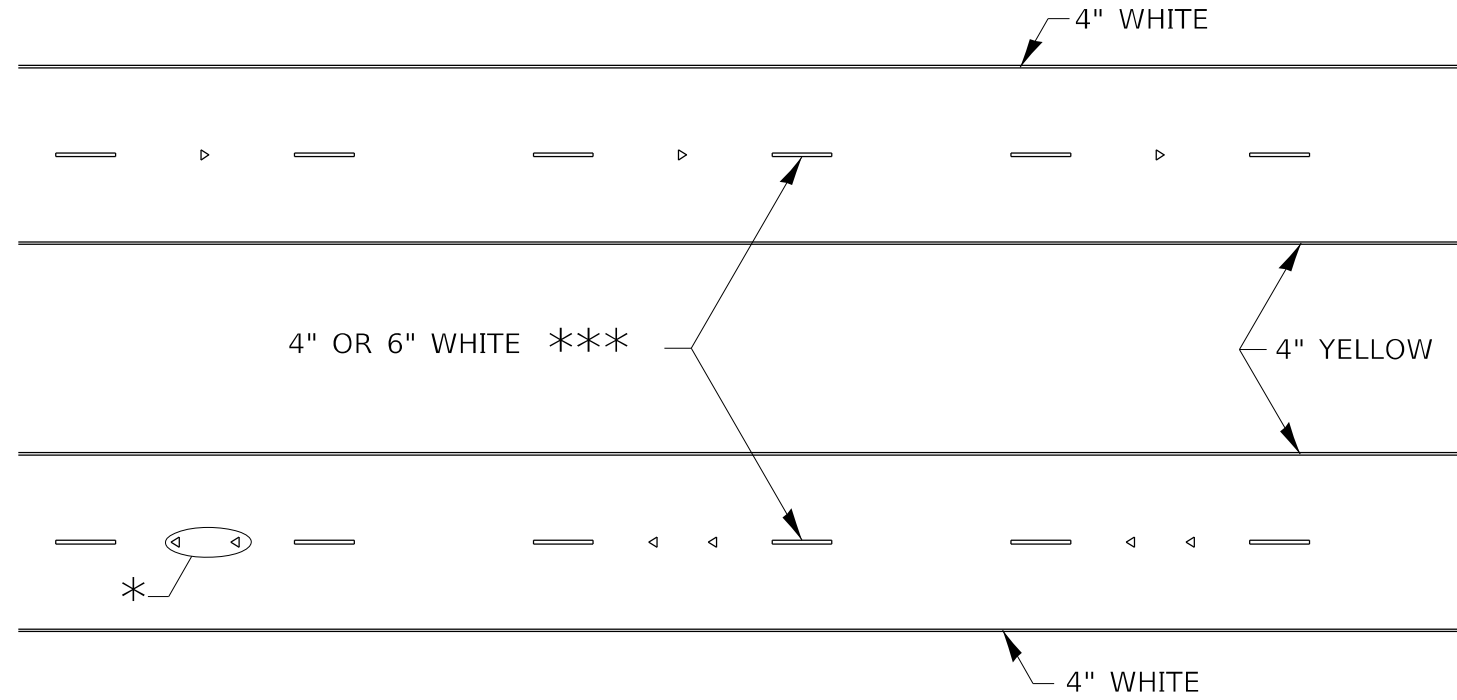
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



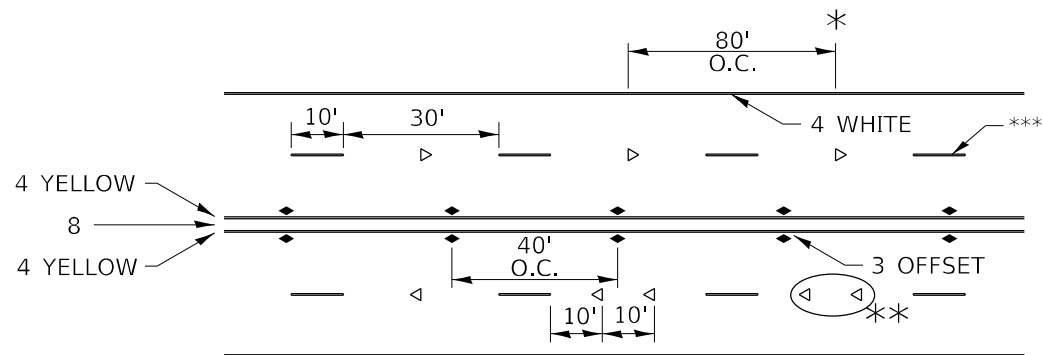
FILE NAME: W:\191-176 IDOT Springfield Ave Phase II\CADD Sheets\D264P06_SHT_Details.dgn	USER NAME = gellwanger	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE. = 525	SECTION = 111BR	COUNTY = WINNEBAGO	TOTAL SHEETS = 80	SHEET NO. = 71
	PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED - 3-05-12		SCALE:	SHEET 11	OF SHEETS	STA. TO STA.	CONTRACT NO. 64P06			
PLOT DATE = 7/22/2024	DATE -	REVISED -	REVISED -					ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT ≥ 20,000.

MULTI-LANE / DIVIDED



* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

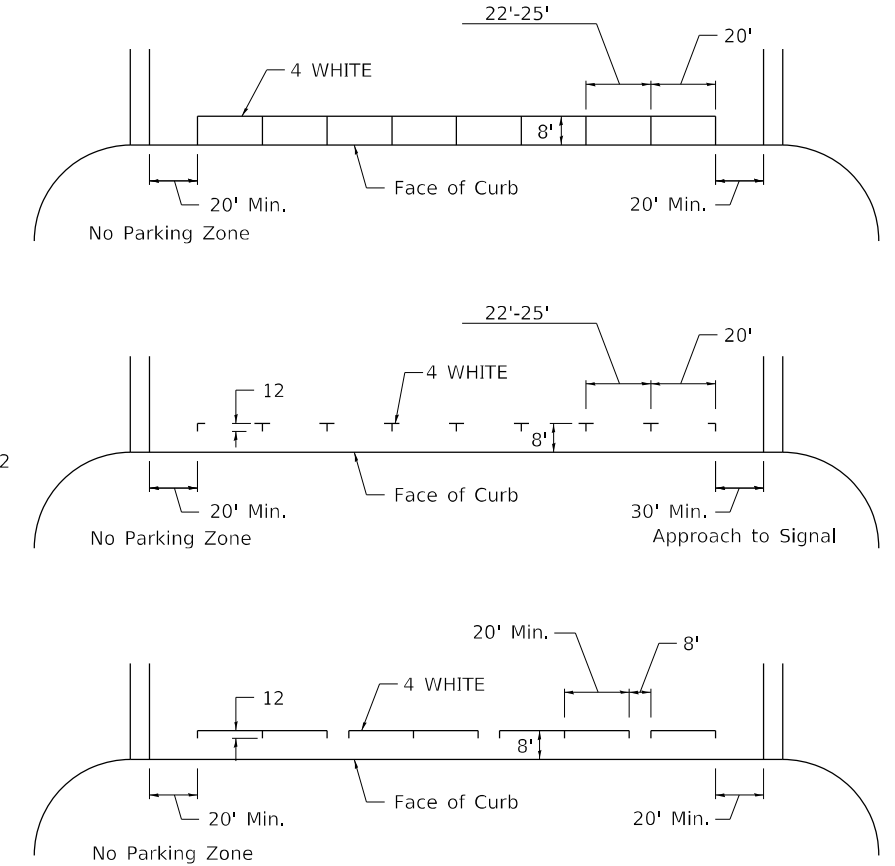
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

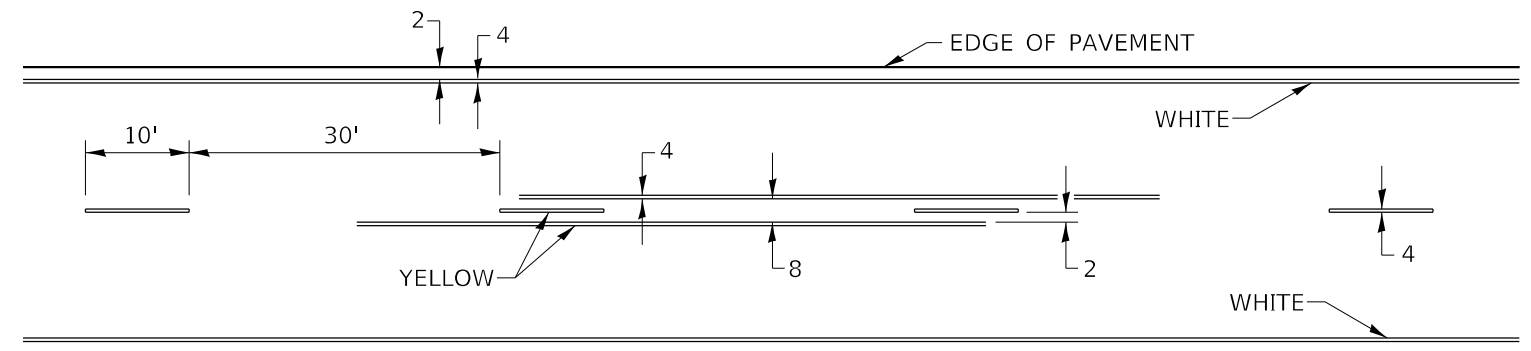
MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS DETAIL NOT HIGHWAY STANDARD 781001)

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



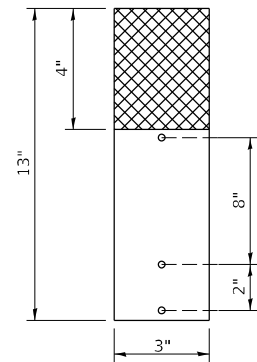
SYMBOLS

FILE NAME: W:\191-176 IDOT Springfield Ave Phase II\CADD Sheets\D264P06_SHT_Details.dgn	USER NAME = gellwanger	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20,0000 * / in.	DRAWN -	REVISED - 8-27-13				525	111BR	WINNEBAGO	80	72
	PLOT DATE = 7/22/2024	CHECKED -	REVISED - 11-28-12		SCALE:	SHEET 12 OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

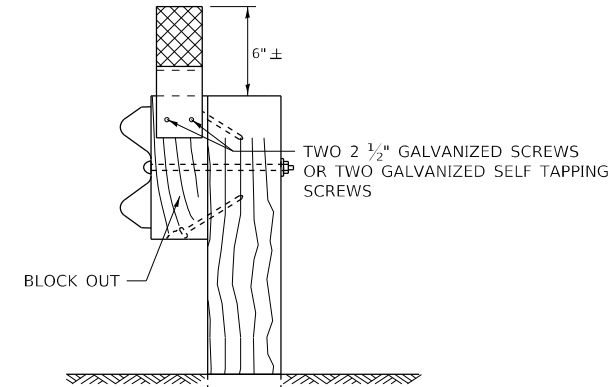
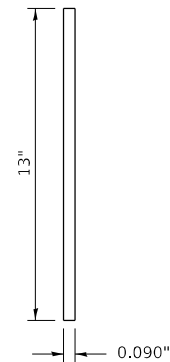
GUARDRAIL REFLECTORS, TYPE C (SPECIAL)

REFLECTORS FOR GUARDRAIL BLOCK OUT OR DELINEATOR POST

STRAIGHT REFLECTOR / DELINEATOR



SIDE VIEW

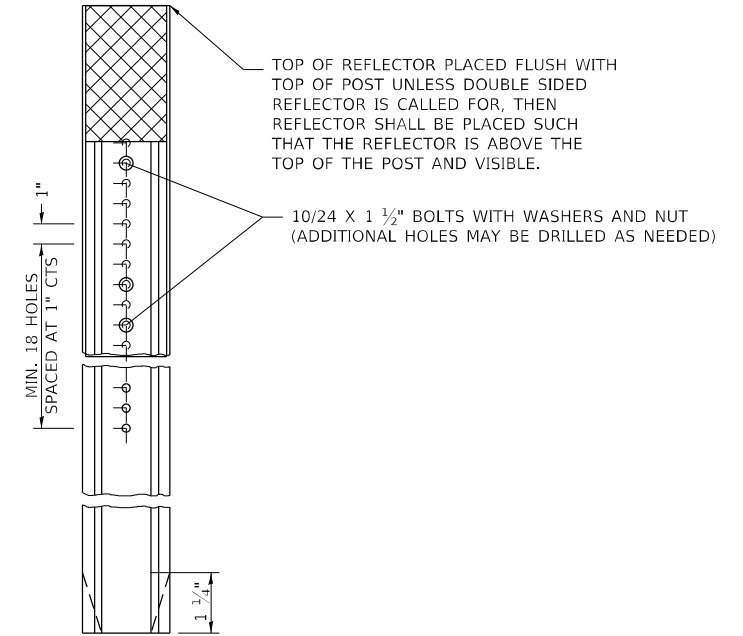


MOUNTED ON A GUARDRAIL BLOCK OUT

REFLECTORS SHALL BE MOUNTED DIRECTLY TO BLOCK OUTS.

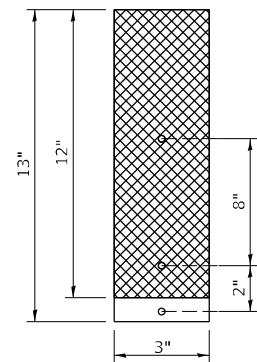
REFLECTORS MOUNTED ON WOODEN OR PLASTIC OR METAL BLOCK OUT SHALL BE MOUNTED USING TWO 2 1/2" GALVANIZED SCREWS WITH WASHERS OR TWO SELF TAPPING GALVANIZED SCREWS WITH WASHERS.

ADDITIONAL SHEETING MAY BE ADDED AS NEEDED FOR TURN AROUNDS AS SHOWN IN THE PLANS

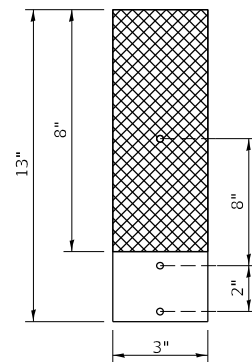


MOUNTED ON A DELINEATOR POST

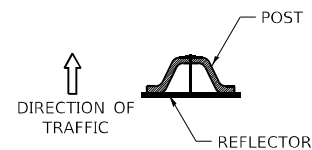
REPLACING 3 BUTTON DELINEATOR



REPLACING 2 BUTTON DELINEATOR



ADDITIONAL HOLES SHALL BE DRILLED IN THE REFLECTORS AS SHOWN ABOVE.



DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE REFLECTOR ATTACHED AS SHOWN ABOVE.

NOTE:

REFLECTORS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR GUARDRAIL REFLECTORS, TYPE C (SPECIAL), WHICH PRICE SHALL ALSO INCLUDE SCREWS, WASHERS OR AN APPROVED BONDING AGENT.

REFLECTORS INSTALLED ON TWO LANE ROADS SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE CRYSTAL.

REFLECTORS INSTALLED ON CENTER BARRIER OR IN THE MEDIAN SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE AMBER.

REFLECTORS INSTALLED ON DIVIDED HIGHWAYS ON THE OUTSIDE OF THE ROADWAY SHALL BE DOUBLE SIDED CRYSTAL.

SPACING FOR REFLECTORS SHALL BE ACCORDING TO STANDARD 782006 UNLESS OTHERWISE NOTED IN THE PLANS.

NOTE:

REFLECTORS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR GUARDRAIL REFLECTORS, TYPE C (SPECIAL), WHICH PRICE SHALL ALSO INCLUDE SCREWS, WASHERS OR AN APPROVED BONDING AGENT.

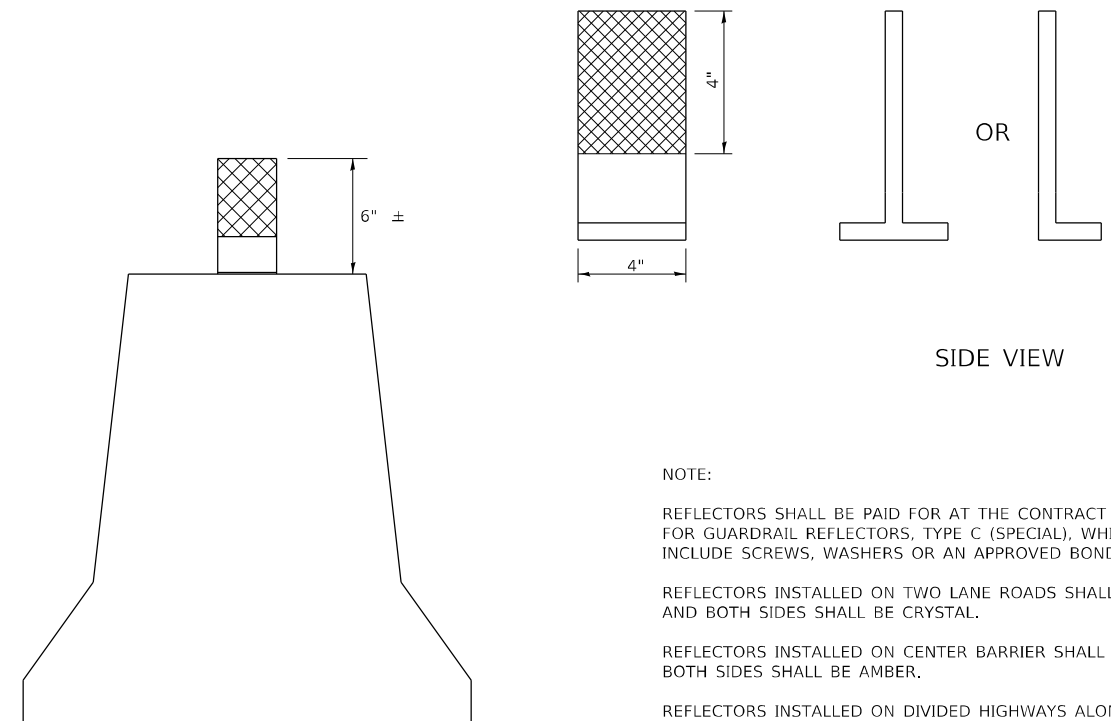
REFLECTORS INSTALLED ON TWO LANE ROADS SHALL BE DOUBLE SIDED AND BOTH SIDES SHALL BE CRYSTAL.

REFLECTORS INSTALLED ON CENTER BARRIER SHALL BE DOUBLE SIDE AND BOTH SIDES SHALL BE AMBER.

REFLECTORS INSTALLED ON DIVIDED HIGHWAYS ALONG THE OUSTIDE OF THE HIGHWAY SHALL BE DOUBLE SIDED CRYSTAL.

SPACING FOR REFLECTORS SHALL BE ACCORDING TO STANDARD 782006 UNLESS OTHERWISE NOTED IN THE PLANS.

REFLECTORS MOUNTED ON BARRIER WALL



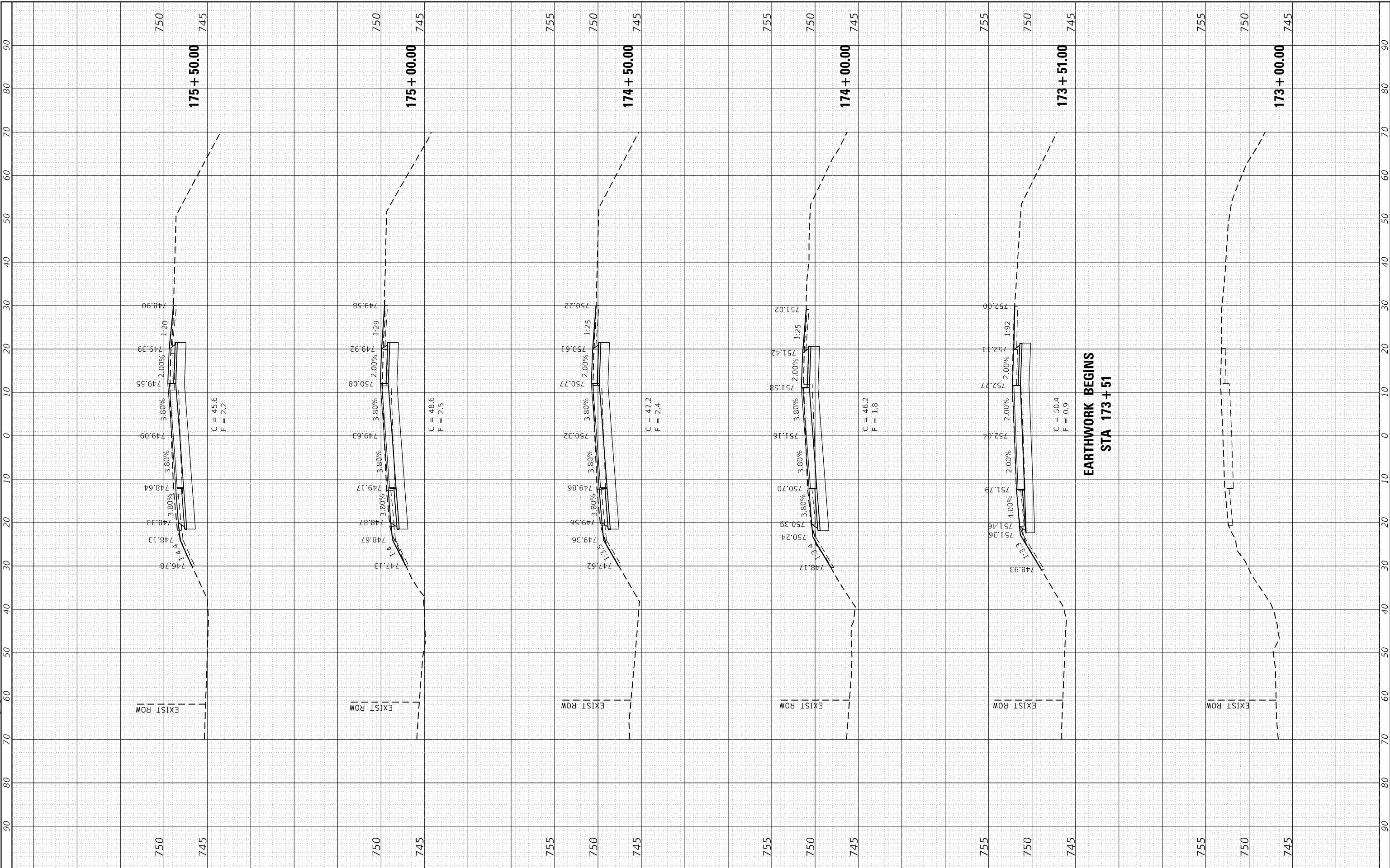
REFLECTORS MOUNTED ON BARRIER WALL

FILE NAME: W:\191-176 IDOT Springfield Ave Phase II\CADD Sheets\D264P06_SHT_Details.dgn	USER NAME = gellwanger	DESIGNED -	REVISED - 4-27-23	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20,0000 * / in.	DRAWN -	REVISED - 4-27-23					525	111BR	WINNEBAGO	80	73
	PLOT DATE = 7/22/2024	CHECKED -	REVISED - 6-21-21		SCALE:	SHEET 13 OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 64P06				

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

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

MODEL Default
 FILE NAME: W:\191176 IDOT Springfield Ave Phase II\CADD Sheets\241P06 STA Cross Sections.dgn



**EARTHWORK BEGINS
 STA 173+51**



USER NAME =	gellwanger
DESIGNED -	WT
DRAWN -	WT
CHECKED -	JPO
DATE -	7/26/2024

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

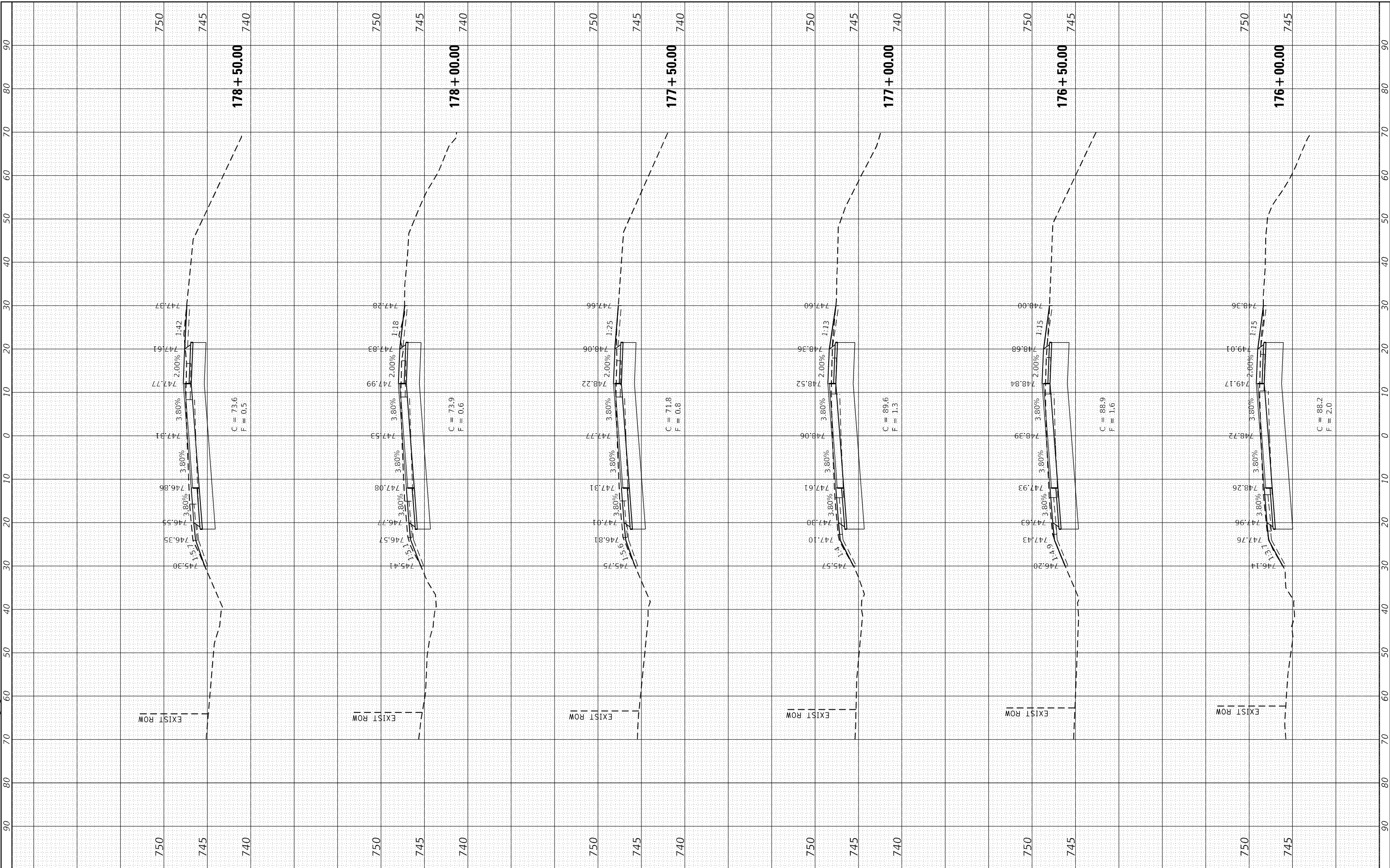
CROSS SECTIONS SPRINGFIELD AVENUE	
SCALE: 1:10V, 1:5V	SHEET 1 OF 7 SHEETS
STA.	TO STA.

F.A.P. RTE. 525	SECTION 111BR	COUNTY WINNEBAGO	TOTAL SHEETS 80	SHEET NO. 74
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				

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

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

MODEL Default
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USER NAME =	gellwanger
DESIGNED -	WT
DRAWN -	WT
CHECKED -	JPO
DATE -	7/26/2024

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 SPRINGFIELD AVENUE**

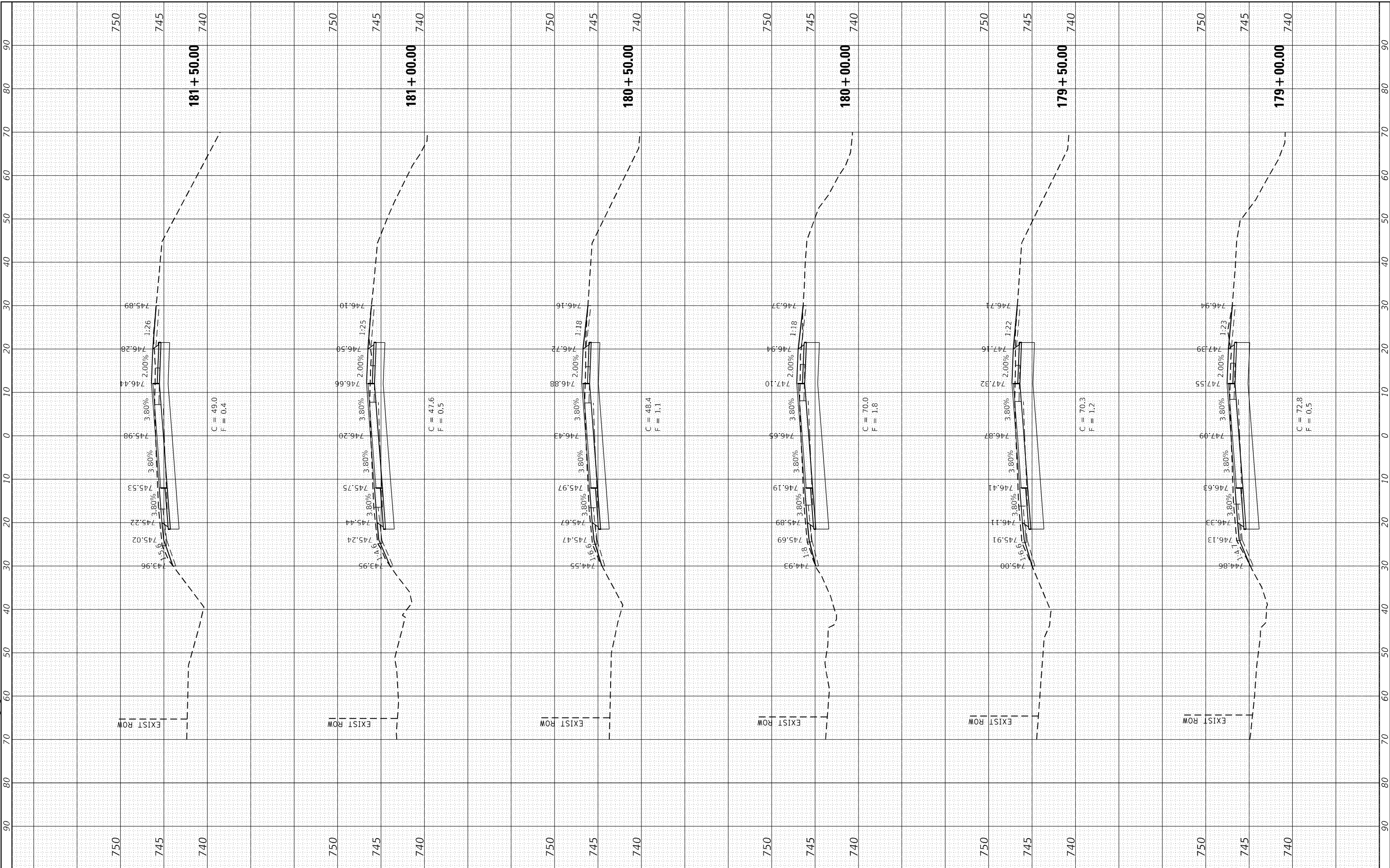
SCALE: 1:10V, 1:5V SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	75
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default
 FILE NAME: W:\191176 D01 Springfield Ave Phase III\CADD Sheets\2241P06_SRT_Cross_Section.dgn



USER NAME = gellwanger	DESIGNED - WT	REVISED -
	DRAWN - WT	REVISED -
	CHECKED - JPO	REVISED -
	DATE - 7/26/2024	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 SPRINGFIELD AVENUE

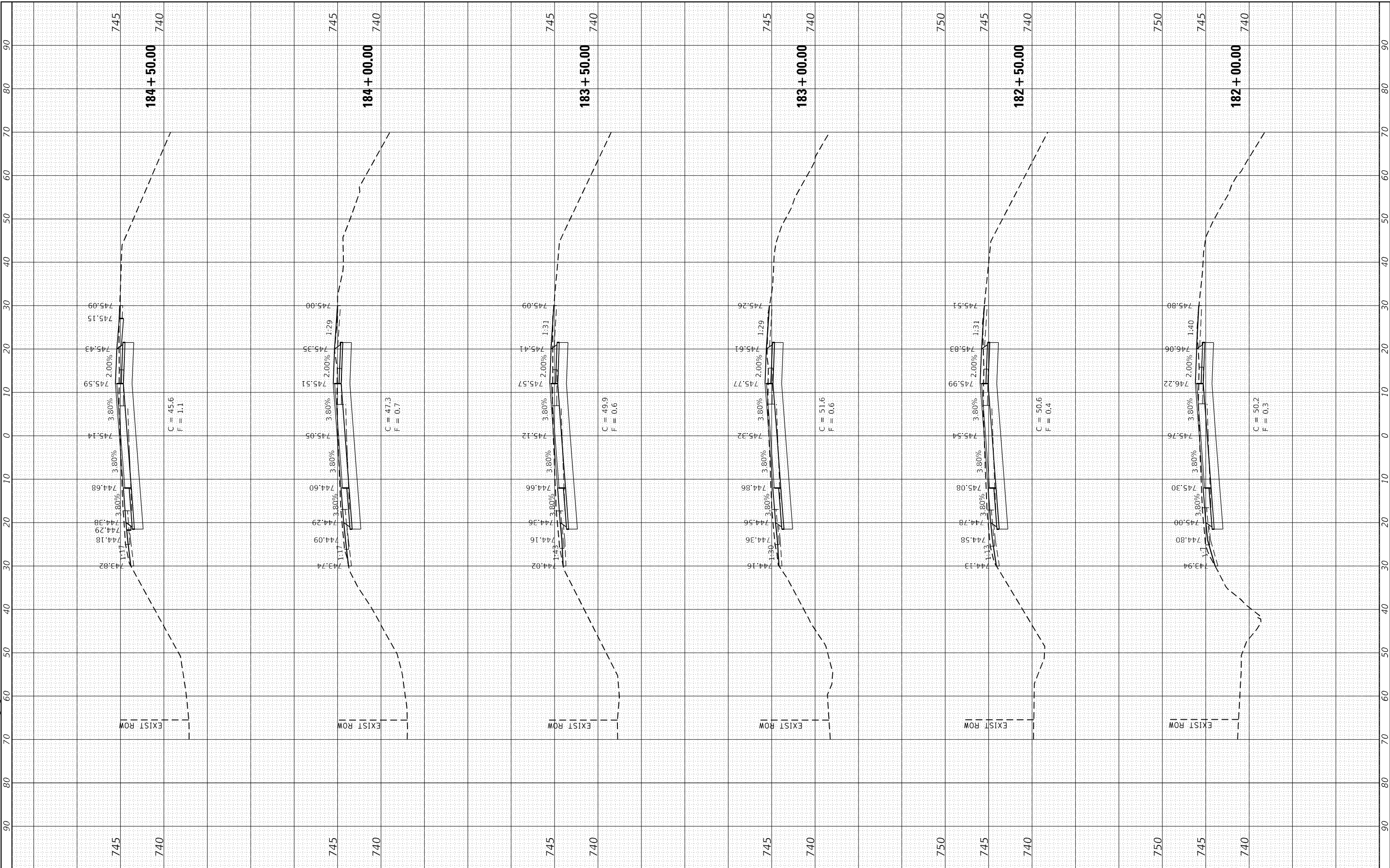
SCALE: 1:10V, 1:5V SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	76
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				

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

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

MODEL Default
 FILE NAME: W:\191176 DD1 Springfield Ave Phase III\CADD Sheets\241P4P_SHT_Cross Sections.dgn



USER NAME =	gellwanger
DESIGNED -	WT
DRAWN -	WT
CHECKED -	JPO
DATE -	7/26/2024

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 SPRINGFIELD AVENUE**

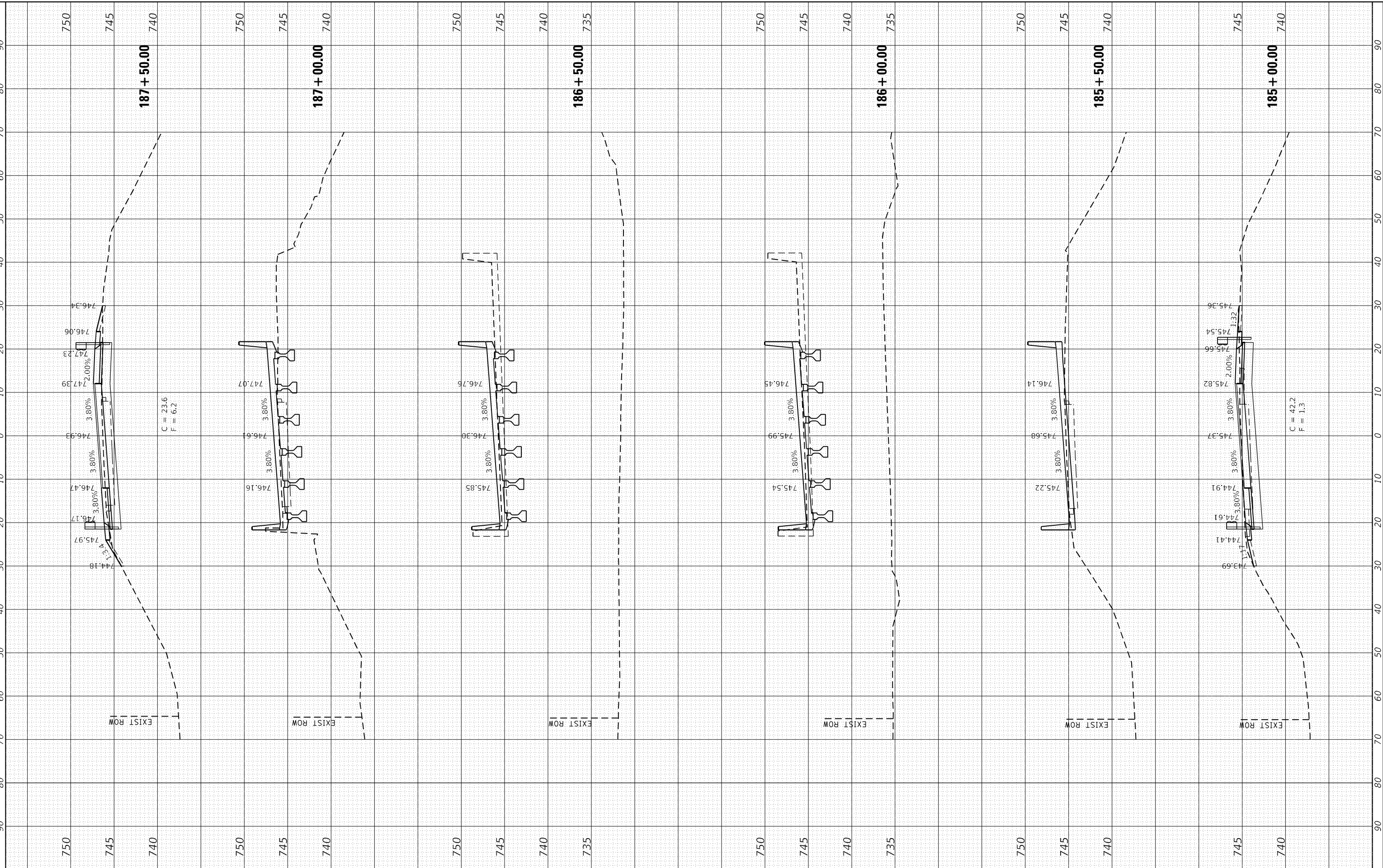
SCALE: 1:10V, 1:5V SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	77
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default
 FILE NAME: W:\191176 DDT Springfield Ave Phase III\CADD Sheets\241P06_SRT_Cross_Section.dgn



BLA, Inc.
 ITASCA, ILLINOIS

USER NAME =	gellwanger
DESIGNED -	WT
DRAWN -	WT
CHECKED -	JPO
DATE -	7/26/2024

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 SPRINGFIELD AVENUE**

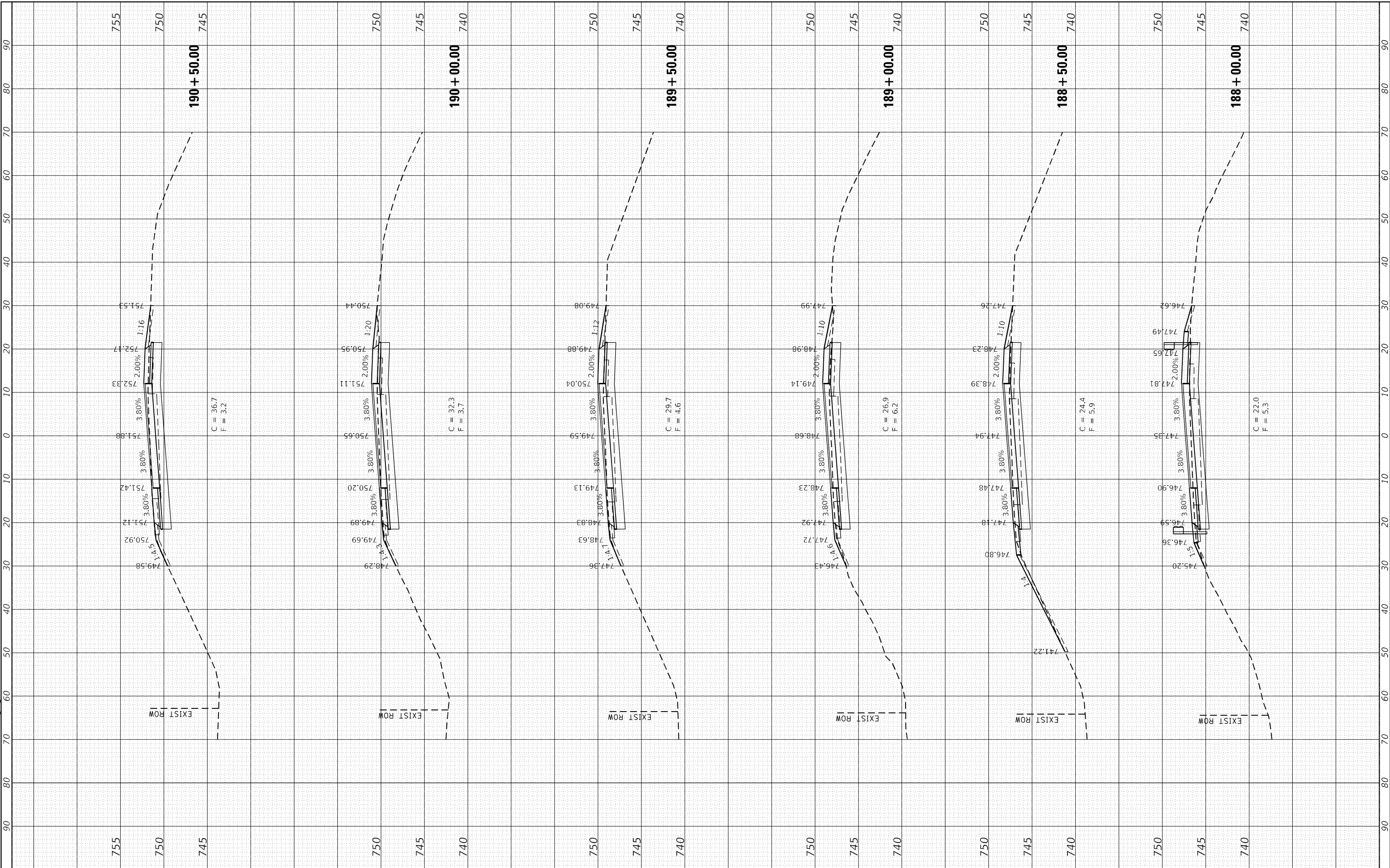
SCALE: 1:10V, 1:5V SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	78
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default
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USER NAME =	gellwanger
DESIGNED -	WT
DRAWN -	WT
CHECKED -	JPO
DATE -	7/26/2024

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 SPRINGFIELD AVENUE**

SCALE: 1:10V, 1:5V SHEET 6 OF 7 SHEETS STA. TO STA.

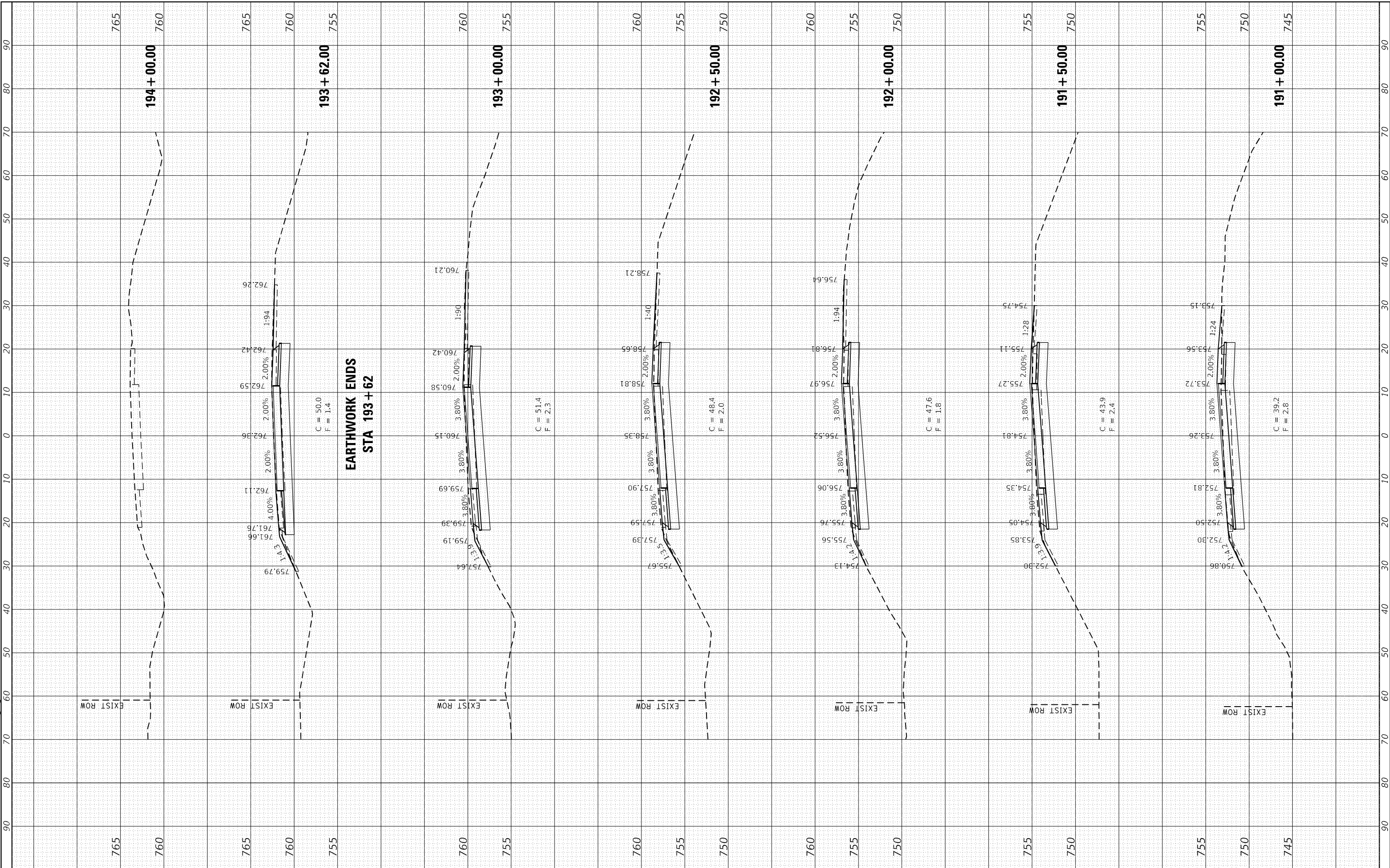
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	111BR	WINNEBAGO	80	79
CONTRACT NO. 64P06				

ILLINOIS FED. AID PROJECT

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

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

MODEL: Default
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USER NAME = gellwanger	DESIGNED - WT	REVISIONS
	DRAWN - WT	REVISIONS
PLOT SCALE = 20.0000' / in.	CHECKED - JPO	REVISIONS
PLOT DATE = 7/22/2024	DATE - 7/26/2024	REVISIONS

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 SPRINGFIELD AVENUE**

SCALE: 1:10V, 1:5V SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 525	SECTION 111BR	COUNTY WINNEBAGO	TOTAL SHEETS 80	SHEET NO. 80
CONTRACT NO. 64P06				
ILLINOIS FED. AID PROJECT				