03-08-2019 LETTING ITEM 126

126

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 64D70		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.U. ROUTE 5128 (IL RTE 251)
SECTION 105RS–6 & 105BR–1
PROJECT STP–J2LG(262)
ROADWAY RESURFACING &
CULVERT REPLACEMENT
WINNEBAGO COUNTY
C–92–037–13

FOR INDEX OF SHEETS AND
HIGHWAY STANDARDS SEE SHEET NO. 2

TOWNSHIP (SECTION): ROCKFORD (12,13,24)

D-92-121-07



LOCATION OF SECTION INDICATED THUS:- -■-

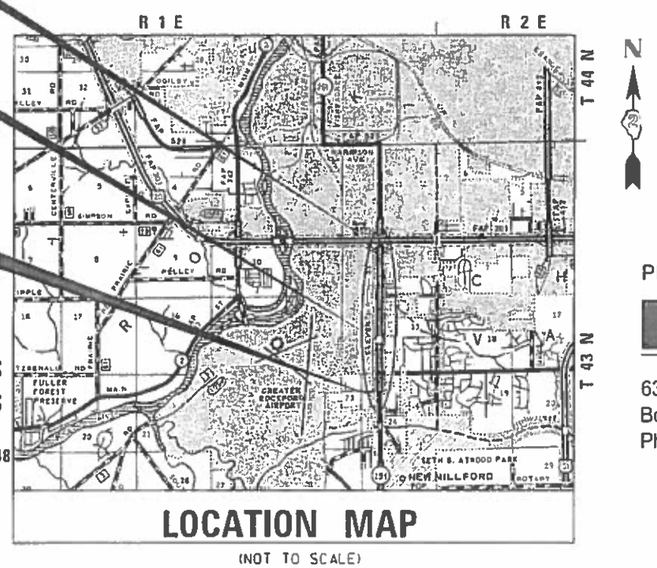
IL ROUTE 251 PROJECT ENDS
STA. 256+26.99

FRONTAGE RDS IMPROVEMENT ENDS
E FRNT RD STA. 243+09.90
W FRNT RD STA. 243+57.01

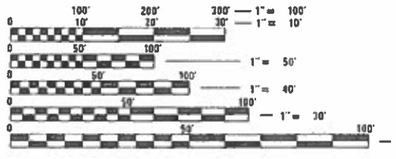
STRUCTURE REPLACEMENT
EX SN 101 – 0009
EX SN 101 – 0010
EX SN 101 – 2001
EX SN 101 – 2002
PR SN 101 – 2050

IL ROUTE 251 PROJECT BEGINS
NB: STA. 153+65.79
SB: STA. 158+11.45

FRONTAGE RDS IMPROVEMENT BEGINS
E FRNT RD: STA. 146+52.87
W FRNT RD: STA. 140+74.88



LOCATION MAP
(NOT TO SCALE)



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 – TRACI DUDEN (815) 284–5932
EMAIL: TRACI.DUDEN@ILLINOIS.GOV

CONTRACT NO. 64D70

PROJECT LENGTH

IL 251
GROSS LENGTH OF PROJECT= 10261.2 FEET = 1.94 MILES
NET LENGTH OF PROJECT= 10261.2 FEET = 1.94 MILES
FRONTAGE ROADS
GROSS LENGTH OF PROJECT= 10421.2 FEET = 1.97 MILES
NET LENGTH OF PROJECT= 10421.2 FEET = 1.87 MILES

PLANS PREPARED BY:

KNIGHT
Engineers & Architects
631 East Boughton Road
Bolingbrook, IL 60440
Phone: 708.342.1250

CLAYTON M. SHIPLEY
ILLINOIS P.E. 062–051269
DATE: 12/14/2018
EXPIRES 11/30/2019
SHEETS: 1–89, 105–154

FRANK WILLIAMS
ILLINOIS S.E. 081–005037
DATE: 12/14/2018
EXPIRES 11/30/2020
SHEETS: 90–104

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec 20th 2018
Kevin Muchek
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER
Feb 1 2019
ENGINEER OF DESIGN AND ENVIRONMENT
Feb 6 2019
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX /HIGHWAY STANDARDS

PLAN | SURVEYED | PLOTTED | DRAWN | CHECKED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE

PROFILE | SURVEYED | PLOTTED | DRAWN | CHECKED | B.M. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO. | BY | DATE

INDEX OF SHEETS

1	COVER SHEETS
2	INDEX OF SHEETS & IDOT HIGHWAY STANDARDS
3 - 4	GENERAL NOTES
5 - 15	SUMMARY OF QUANTITIES
16 - 21	TYPICAL SECTIONS
22 - 33	SCHEDULE OF QUANTITIES
34 - 36	ALIGNMENT, TIES, AND BENCHMARKS
37 - 44	ROADWAY PLANS
45 - 52	REMOVAL PLAN
53	ROCK RIVER WATER RECLAMATION DISTRICT STANDARD DETAILS
54 - 73	MAINTENANCE OF TRAFFIC
74 - 75	EROSION CONTROL PLANS
76 - 80	DRAINAGE PLAN & PROFILES
81	RIGHT-OF-WAY PLANS
82 - 89	SIGNING & PAVEMENT MARKING PLANS
90 - 91	STRUCTURE PLANS
92 - 96	SOIL BORINGS
97 - 104	EXISTING STRUCTURE PLANS
105	CATCH BASINS OR INLETS TO BE ADJUSTED OR RECONSTRUCTED (17.4)
	RIPRAP AT END SECTIONS (19.4)
	HOT-MIX ASPHALT SHOULDER (22.4)
	PAVEMENT PATCHING FOR HOT-MIX ASPHALT SURFACED PAVEMENT (32.4)
105	DELINEATOR AND POST ORIENTATION (37.4)
	TYPICAL MEDIAN CROSSOVER CLOSURE (WITH EMERGENCY OPENING) (87.4)
	SUBGRADE REPLACEMENT (97.4)
	TYPICAL MEDIAN CROSSOVER CLOSURE (98.4)
107	HOT-MIX ASPHALT APPROACHES & MAILBOX RETURNS (47.2)
108	TYPICAL AGGREGATE BASE SIDEROAD (93.2)
	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (94.2)
109 - 110	BOX CULVERT END SECTIONS (10.1)
111 - 113	CONCRETE END SECTIONS FOR PARALLEL PIPE CULVERTS 15" THRU 84" (11.1)
114	TRAVERSABLE PIPE GRATE FOR BOX CULVERT END SECTION (13.1)
115 - 119	TRAVERSABLE PIPE GRATE FOR PARALLEL DRAINAGE STRUCTURE (14.1)
120	HOT-MIX ASPHALT APPROACHES AND MAILBOX RETURNS (20.1)
121 - 124	WORK ZONE SIGN DETAILS (34.1)
125	TRAFFIC CONTROL TYPICAL WEAVE (39.1)
126	TRAFFIC CONTROL FOR ROAD CLOSURE (40.1)
127 - 129	TYPICAL PAVEMENT MARKINGS (41.1)
130	PAINTING DETAILS (44.1)
131	SLOTTED DRAIN PIPE (68.1)
132	40' SINGLE LANE MEDIAN CROSSOVER (45 MPH WORK ZONE SPEED LIMIT) (72.1)
133	BEVELED PIPE & GUARD DETAIL FOR MEDIAN CROSSOVER (86.1)
134	DETAILS OF PLANTING AND BRACING TREES (92.1)
135 - 154	CROSS SECTIONS

IDOT HIGHWAY STANDARDS

000001-07	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
420001-09	PAVEMENT JOINTS
420101-06	24' JOINTED PCC PAVEMENT
420106-06	36' JOINTED PCC PAVEMENT
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
442101-09	CLASS B PATCHES
515001-03	NAME PLATE FOR BRIDGES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375 mm) THRU 84" (1500 mm) DIA.
542411	SLOPED METAL END SECTIONS FOR PIPE CULVERTS 15" (375 mm) THRU 60" (1500 mm) DIA.
542311-07	TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTION
542531-04	INLET BOX TYPE 24 (600) G
542546-01	FLUSH INLET BOX FOR MEDIAN
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
635001-02	DELINEATORS
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L,2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701336-07	LANE CLOSURE, 2L,2W, WORK AREAS IN SERIES, FOR SPEEDS >= 45 MPH
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
701416-11	LANE CLOSURE, FREEWAY / EXPRESSWAY WITH CROSSOVER AND BARRIER
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS >= 45 MPH TO 55 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS >= 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS >= 45 MPH
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

FILE NAME = D264D70-sht-Index.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	2
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1. ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

2. THE REMOVAL OF BITUMINOUS SURFACING LESS THAN 6 INCH THICKNESS NOT ON A RIGID TYPE BASE REMOVED IN CONJUNCTION WITH THE BASE SHALL BE REMOVED AS EARTH EXCAVATION. THE REMOVAL OF BITUMINOUS SURFACING ON A RIGID TYPE BASE OR A THICKNESS OF 6 INCHES OR MORE ON A FLEXIBLE BASE REMOVED IN CONJUNCTION WITH THE BASE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PAVEMENT REMOVAL OF THE TYPE SPECIFIED.

3. THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM THE A HORIZON (ZERO TO 2' DEEP) OF SOIL PROFILES OF LOCAL SOILS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES BID AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

4. IT IS ESTIMATED THAT 210 CUBIC YARDS OF EARTH WILL BE HAULED TO THE JOB FROM OUTSIDE THE PROJECT LIMITS. A SHRINKAGE FACTOR OF 25% HAS BEEN USED.

5. THE TOPSOIL EXCAVATION QUANTITIES HAVE BEEN ADJUSTED TO ALLOW FOR 25% SHRINKAGE OF TOPSOIL BETWEEN REMOVAL AND REPLACEMENT.

6. 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.

7. 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.

8. PLACEMENT AND COMPACTION OF THE BACKFILL FOR PROPOSED ACROSS ROAD CULVERTS AND EXISTING ACROSS ROAD CULVERTS THAT ARE REMOVED SHALL CONFORM TO ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS, EXCEPT THAT THE MATERIAL SHALL CONFORM TO ARTICLE 208.02 OF THE STANDARD SPECIFICATIONS, AND SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD LABORATORY DENSITY. ANY MATERIAL CONFORMING TO THE REQUIREMENTS OF ARTICLE 1003.04 OR 1004.05 FOR TRENCH BACKFILL WHICH HAS BEEN EXCAVATED FROM THE TRENCHES SHALL BE USED FOR BACKFILLING THE TRENCHES. THE ENTIRE EXCAVATION, WITHIN 2 FEET OUTSIDE OF EACH SHOULDER, SHALL BE BACKFILLED WITH TRENCH BACKFILL MATERIAL TO THE BOTTOM OF THE PROPOSED SUBGRADE. IMPERVIOUS MATERIAL SHALL BE USED ON THE OUTER 3 FEET AT EACH END OF THE CULVERT. THIS TRENCH BACKFILL MATERIAL WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE ITEM OF THE WORK FOR WHICH IT IS REQUIRED.

9. ALL "AGGREGATE SUBGRADE IMPROVEMENT" (SECTION 303), SHALL BE COMPLETED IN ACCORDANCE WITH ARTICLES 311.04, 311.05, 311.05(a), 311.06 AND 311.07. ALL AGGREGATE SUBGRADE THICKNESSES EQUAL TO OR LESS THAN 12 INCHES SHALL BE CONSTRUCTED OF AGGREGATE OF CA02 GRADATION. ALL AGGREGATE SUBGRADE THICKNESSES GREATER THAN 12 INCHES SHALL BE CONSTRUCTED OF CS02.

10. CLOSED EXPANSION JOINTS ON JOINTED PAVEMENTS SHALL BE RE-ESTABLISHED DURING THE PATCHING OPERATIONS. CLASS B PATCHES - WHEN THE PAVEMENT REQUIRES PATCHING AT THE LOCATION OF THE EXPANSION JOINT, A NEW JOINT SHOULD BE ESTABLISHED USING A DOWELLED EXPANSION PATCH AS SHOWN ON HIGHWAY STANDARD 442101. WHEN THE JOINT IS CLOSED, BUT DOES NOT REQUIRE PATCHING, AN EXPANSION JOINT MAY BE FORMED BY SAWING THE PAVEMENT AND FILLING THE SAW CUT WITH A PREFORMED EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF SECTION 1051 OF THE STANDARD SPECIFICATIONS AS SHOWN ON STANDARD 420001.

11. WHEN LAYING OUT FOR PATCHING, THE MINIMUM DISTANCE BETWEEN NEW PATCHES (SAW CUT TO SAW CUT) SHALL BE 15 FEET. WHEN PATCH SPACING IS LESS THAN 15 FEET, THE PAVEMENT BETWEEN PATCHES SHALL ALSO BE REMOVED AND REPLACED.

12. ALL MANDATORY JOINT SEALING FOR CLASS B PATCHES AS SHOWN ON THE PLANS WILL NOT BE MEASURED FOR PAYMENT. OPTIONAL SAWING OF THE JOINT FOR THE SEALANT RESERVOIR WILL NOT BE MEASURED FOR PAYMENT.

12. CONT'D THE ENGINEER RESERVES THE RIGHT TO CHECK ALL PATCHES FOR SMOOTHNESS BY THE USE OF A 10' ROLLING STRAIGHT EDGE SET TO A 3/16" TOLERANCE IN THE WHEEL PATHS. ANY PATCH AREAS HIGHER THAN 3/16" MUST BE GROUND SMOOTH WITH AN APPROVAL GRINDING DEVICE CONSISTING OF MULTIPLE SAWS. THE USE OF BUSHHAMMER OR OTHER IMPACT DEVICES WILL NOT BE PERMITTED. ANY PATCH WITH DEPRESSIONS GREATER THAN 3"16" SHALL BE REPAIRED IN A MANNER APPROVED BY THE ENGINEER.

THE MANDATORY SAW CUTS FOR CLASS B PAVEMENT PATCHING ARE:

CUT TWO TRANSVERSE SAW CUTS OUTLINING THE PATCH AND ONE TRANSVERSE PRESSURE RELIEF SAW CUT. THE LONGITUDINAL EDGES OF THE PATCH SHALL BE CUT FULL DEPTH.

THE MANDATORY SAW CUTS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR SAW CUTS.

13. THE EXISTING HOT-MIX ASPHALT ON PRIVATE AND COMMERCIAL ENTRANCES SHALL BE BLADED OFF OR MILLED AND DISPOSED OF OUTSIDE THE PROJECT LIMITS. THIS COULD BE THE ENTIRE ENTRANCE OR TAPERED AT THE END DEPENDING ON IF THE MAINLINE IS RESURFACED OR MILLED AND RESURFACED. THE COST OF THE BLADING, MILLING, ROLLING AND DISPOSAL IS INCLUDED IN THE CONTRACT UNIT PRICE FOR "INCIDENTAL HOT-MIX ASPHALT SURFACING".

14. THE DROP OFF THAT OCCURS AT ENTRANCE EDGES AS A RESULT OF RESURFACING OF THE ENTRANCE SHALL BE CORRECTED USING AGGREGATE SHOULDER MATERIAL. THIS WORK SHALL BE PAID FOR BY THE TON FOR AGGREGATE SHOULDERS OF THE TYPE SPECIFIED IN THE PLANS.

15. MILLING MACHINES ON THIS PROJECT SHALL BE CAPABLE OF REMOVING A LAYER OF BITUMINOUS A MINIMUM 6' WIDE AND 1-1/2 INCHES IN DEPTH IN A SINGLE PASS.

16. AREAS OF SLAG MIXTURE ARE EXPECTED TO BE MILLED ON THIS PROJECT. RAP CONTAINING SLAG MIXTURE MUST BE STOCKPILED SEPARATELY.

17. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

LOCATIONS:	IL 251 RESURFACING		FRNT RD RESURFACING		SHLDR RESURFACING		C.E. RESURFACING	TEMP PAVEMENT
MIXTURE USES:	SURFACE	BINDER	SURFACE	LEVEL BINDER	SURFACE	BINDER	SURFACE	SURFACE
PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0 @ N70	4.0 @ N70	4.0 @ N50	4.0 @ N50	4.0 @ N50	3.0 @ N50	4.0 @ N50	4.0 @ N50
MIXTURE COMPOSITION (MIXTURE GRADATION)	IL 9.5	IL 19.0	IL 9.5	IL 9.5 OR IL 9.5FG	IL 9.5	IL 19.0	IL 9.5	IL 9.5
FRICTION AGGREGATE	F	N/A	C	N/A	C	N/A	C	C
MIXTURE WEIGHT	123 LBS/SY-IN	112 LBS/SY-IN	112 LBS/SY-IN	112 LBS/SY-IN	112 LBS/SY-IN	112 LBS/SY-IN	112 LBS/SY-IN	112 LBS/SY-IN
QUALITY MANAGEMENT PROGRAM:	QCP	QCP	QCP	QCP	QCP	QCP	QC/QA	QC/QA
SUBLOT SIZE:	1000	1000	1000	1000	1000	QC/QA	N/A	N/A
NUMBER OF ROLLER PASSES[1]:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

1) WHEN A NUMBER OF ROLLER PASSES IS SPECIFIED, THE CONTRACTOR MAY OPT TO USE INTELLIGENT COMPACTION IN LIEU OF DENSITY TESTING UNDER THE QUALITY CONTROL PERFORMANCE (QCP) PROGRAM.

18. THE CONTRACTOR SHALL PLACE TEMPORARY HOT-MIX ASPHALT TAPERS ALONG ALL SIDES OF OF THE UTILITY STRUCTURES PROTRUDING ABOVE THE MILLED SURFACE. THE TEMPORARY TAPERS SHALL EXTEND 2' OUTSIDE OF THE CASTINGS, EXCEPT FOR THE APPROACH SIDE TO TRAFFIC SHALL HAVE A 4' TAPER LENGTH. HOT-MIX ASPHALT MEETING THE APPROVAL OF THE ENGINEER SHALL BE USED, NO COLD MILLINGS WILL BE ALLOWED. THE COST OF THE MATERIAL, PLACEMENT, MAINTENANCE, REMOVAL AND DISPOSAL OF SAID WORK WILL BE INCLUDED IN THE PAY ITEM FOR "HOT-MIX ASPHALT SURFACE REMOVAL, 3¾"".

19. THE CONTRACTOR WILL BE REQUIRED TO FURNISH 5 ½" 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.

20. THE AREA TO BE TACKED OR PRIMED SHALL BE LIMITED TO THAT WHICH CAN BE COVERED BY 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.

21. REFLECTIVE CRACK CONTROL SHALL BE PLACED ON THE EXISTING SURFACE PRIOR TO RESURFACING ON THE FRONTAGE ROADS.

22. TO HELP AVOID EXCESS DROP OFFS AT THE EDGE OF PAVEMENT, AGGREGATE SHOULDER MATERIAL OF THE TYPE SPECIFIED IN THE PLANS SHALL BE PLACED PRIOR TO ANY BITUMINOUS MATERIAL. THE AGGREGATE MATERIAL SHALL BE PLACED FLUSH WITH THE EXISTING PAVEMENT OR AT THE ELEVATION OF ANY PROPOSED MILLING. AT NO TIME SHALL THE AGGREGATE SHOULDER MATERIAL BE HIGHER THAN THE EXISTING EDGE OF PAVEMENT. THIS WORK SHALL BE PAID FOR BY THE TON FOR AGGREGATE SHOULDERS OF TYPE SPECIFIED

23. A NATIONWIDE 404 PERMIT HAS BEEN ISSUED FOR THIS PROJECT AND THE CONDITIONS OF THAT PERMIT MUST BE ADHERED TO.

24. THE NEW NUMBER FOR THIS STRUCTURE WILL BE S.N. 101-2050

25. CULVERT & BRIDGE FLOWS MUST BE MAINTAINED THROUGHOUT THE PROJECT. NORMAL FLOW SHALL BE ALLOWED TO PASS AT A RATE IT ENTERS THE JOBSITE. HIGH FLOWS SHALL BE ALLOWED TO PASS WITHOUT CAUSING DAMAGE TO UPSTREAM PROPERTIES.

26. THE CONTRACTOR SHALL REMOVE ALL ENTRANCE CULVERTS IN CONDITION FOR REUSE WHICH ARE NOT TO BE LEFT IN PLACE. THEY SHALL BE CLEANED AND STORED ALONG THE RIGHT OF WAY AS DIRECTED. IN NO CASE SHALL THEY BE ROUGHLY HANDLED OR SHOVED BY HEAVY MACHINERY. UNUSABLE MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE. COST OF THE WORK TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.

27. THE PROPOSED PIPES FOR ENTRANCES AND SIDE ROADS SHALL BE PLACED IN LINE WITH THE EXISTING OR PROPOSED DITCH LINE.

28. CONNECTING BANDS FOR CORRUGATED METAL PIPES SHALL BE METAL AND SHALL BE COATED WITH THE SAME MATERIAL AS THE PIPE SECTIONS. THE CONNECTING BANDS SHALL BE A MINIMUM OF 18" WIDE.

29. IF, DURING THE GRINDING OR RESURFACING OPERATIONS, THE EXISTING MAILBOXES BECOME A HINDRANCE, THE CONTRACTOR SHALL BE REQUIRED TO CAREFULLY REMOVE AND REINSTALL THE MAILBOXES AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE INCIDENTAL HOT MIX ASPHALT SURFACING.

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO. ____, BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO. ____, BY, DATE

FILE NAME = D264D70-sht-GN01.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	3
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES (CONTINUED)

30. THE NEW MANHOLE LIDS ON THIS PROJECT SHALL HAVE THE WORD "STORM", "SANITARY", OR "WATER" ON THE LID. THE WORD TO BE USED IS NOTED ON THE PLANS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE WORD TO BE USED ON OTHER LIDS NOT NOTED ON THE PLANS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK.

31. THE EXCAVATED MATERIALS FROM EARTH EXCAVATION WIDENING, GRADING AND SHAPING DITCHES, AND EXCAVATING AND GRADING SHOULDERS SHALL BE USED TO BUILD UP THE SHOULDER THROUGHOUT THE JOB TO CONFORM WITH THE TYPICAL SECTIONS AND SHOULDER WIDENING FOR TERMINALS AS SHOWN ON THE PLANS.

32 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 EACH FOR DELINEATORS.

33. 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 SUB-CONTRACTOR 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 INCLUDED IN THE COST FOR "CONSTRUCTION LAYOUT".

34. TREE PLANTING LAYOUT SHALL BE PERFORMED BY THE DISTRICT ROADSIDE MANAGEMENT SPECIALIST. MULCH SHALL BE PLACED 4" THICK AND TO THE DIAMETER AROUND THE TREE AS SHOWN ON DISTRICT STANDARD 92.1. THE MULCH SHALL BE HARDWOOD WOOD CHIPS PLACED ON WEED BARRIER FABRIC. THIS WORK SHALL BE INCLUDED IN THE COST OF THE TREE.

35. 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 THE 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 MULTI-LANE DIVIDED, MULTI-LANE UNDIVIDED, AND ONE-WAY ROADWAY SHALL BE ACCORDING TO DISTRICT STANDARD 41.1.

36. THE CONTRACTOR SHALL PLACE CONTRACTION JOINTS IN PROLONGATION WITH JOINTS IN THE EXISTING PAVEMENT. THE JOINT SHALL BE A SAWED CONTRACTION JOINT WITH DOWEL BAR ASSEMBLY AS SHOWN ON HIGHWAY STANDARD 420001. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES BID AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

37. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123. THE FOLLOWING LISTED UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS ARE MEMBERS OF JULIE:

    -ALDRIDGE ELECTRIC.....(815) 467-0428
    -AT&T.....(630) 573-5465
    -BUCKEYE PARTNERS.....(219) 313-5321
    -COMCAST CABLE.....(224) 229-5432
    -COMMONWEALTH EDISON COMPANY.....(630) 985-4043
    -FRONTIER (NORTH).....(815) 573-5465
    -NICOR GAS COMPANY.....(630) 388-3046
    -PEG BANDWIDTH LLC/UNITI FIBER.....(847) 650-1348
    -ROCK RIVER WATER RECLAMATION DISTRICT.....(815) 387-7400
    -JUDE TORRE (RRWRD).....(815) 871-8072

    THE FOLLOWING ARE KNOWN UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS WHICH ARE NOT MEMBERS OF JULIE AND SHOULD BE NOTIFIED INDIVIDUALLY BY THE CONTRACTOR:

    -KENTUCKY DATA LINK, INC.
    13935 BISHOPS DRIVE
    BROOKFIELD, WI 53005

    -ROCKFORD WATER DEPARTMENT
    425 E. STATE STREET
    ROCKFORD, IL 61104

    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.

38. CADD DATA WILL BE AVAILABLE TO CONTRACTORS AND CONSULTANTS WORKING ON THIS PROJECT. THIS INFORMATION WILL BE PROVIDED UPON REQUEST AS MICROSTATION CADD FILES AND GEOPAK COORDINATE GEOMETRY FILES ONLY. IF DATA IS REQUIRED IN OTHER FORMATS IT WILL BE YOUR RESPONSIBILITY TO MAKE THESE CONVERSIONS. IF ANY DISCREPANCY OR INCONSISTENCY ARISES BETWEEN THE ELECTRONIC DATA AND THE INFORMATION ON THE HARD COPY, THE INFORMATION ON THE HARD COPY SHOULD BE USED. CONTACT THE DISTRICT'S PROJECT ENGINEER TO REQUEST THESE FILES.

39. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE MUNICIPALITY TO DETERMINE APPROVED METHODS OF UTILITY STRUCTURE ADJUSTMENT. UTILITY STRUCTURES MAY INCLUDE, BUT ARE NOT LIMITED TO, MANHOLES, WATER VALVES, HANDHOLES, ETC. ALL MATERIALS AND WORK NECESSARY TO COMPLETE ADJUSTMENTS PER MUNICIPALITY REQUIREMENTS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED ADJUSTMENT PAY ITEM.

40. EXCESS TREES THAT CANNOT BE PLANTED ALONG THE IL 251 PROJECT LIMITS SHALL BE PLANTED AT ALTERNATIVE LOCATIONS IN WINNEBAGO OR BOONE COUNTY AS DETERMINED BY THE DISTRICT ROADSIDE MANAGEMENT SPECIALIST.

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO. — BY — DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD — BY — DATE

FILE NAME = D264D70-sht-GN02.dgn

KNIGHT Engineers & Architects

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CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	4
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

				URBAN	CONSTRUCTION CODE		
					80% FED 20% STATE	80% FED 20% STATE	100% RRWRD
	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	STRUCTURES	SANITARY
					0005	0010	0043
*	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	40	40		
	20200100	EARTH EXCAVATION	CU YD	1,135	1,135		
	20400800	FURNISHED EXCAVATION	CU YD	210	210		
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1,270	1,270		
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	11,332	11,332		
*	25000210	SEEDING, CLASS 2A	ACRE	2.50	2.50		
**	25000750	MOWING	ACRE	2.50	2.50		
*	25100115	MULCH, METHOD 2	ACRE	2.50	2.50		
*	25100630	EROSION CONTROL BLANKET	SQ YD	11,332	11,332		
*	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	235	235		
*	28000305	TEMPORARY DITCH CHECKS	FOOT	60	60		
*	28000400	PERIMETER EROSION BARRIER	FOOT	1,157	1,157		
*	28000500	INLET AND PIPE PROTECTION	EACH	15	15		
*	28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	3,593	3,593		

* SPECIALTY ITEM

** NON-PARTICIPATING

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO. ____, BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO. ____, BY, DATE

FILE NAME = D264D70-sht-SOD.dgn

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	CHECKED - DMS	REVISED -
	DATE - 12/14/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET NO. 1 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	5
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

REV 1/15/19

				URBAN	CONSTRUCTION CODE		
					80% FED 20% STATE	80% FED 20% STATE	100% RRWRD
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY		ROADWAY	STRUCTURES	SANITARY
					0005	0010	0043
28100107	STONE RIPRAP, CLASS A4	SQ YD	324			324	
28200200	FILTER FABRIC	SQ YD	324			324	
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	1,031		1,031		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	3,169		3,169		
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	202		202		
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	539		539		
35102400	AGGREGATE BASE COURSE, TYPE B 12"	SQ YD	276		276		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	13,566		13,566		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	109,677		109,677		
40600627	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N50	TON	2,069		2,069		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	2,919		2,919		
40600990	TEMPORARY RAMP	SQ YD	1,888		1,888		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	12,768		12,768		
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	6,136		6,136		

* SPECIALTY ITEM

** NON-PARTICIPATING

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, PRT. OF MAX CHECKED, CADD FILE NAME, NOTE BOOK, NO. ____, BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO. ____, BY, DATE

FILE NAME = D264D70-sht-S100.dgn

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DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET NO. 2 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	6
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

REV 1/15/19

				URBAN	CONSTRUCTION CODE		
					80% FED 20% STATE	80% FED 20% STATE	100% RRWRD
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY		ROADWAY	STRUCTURES	SANITARY
					0005	0010	0043
40603390	HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N70	TON	7,240		7,240		
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	1,340		1,340		
42000060	WELDED WIRE REINFORCEMENT	SQ YD	2,140		2,140		
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	2,502		2,502		
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	100,772		100,772		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	67		67		
44002215	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3 3/4"	SQ YD	4,311		4,311		
44004250	PAVED SHOULDER REMOVAL	SQ YD	454		454		
44200944	CLASS B PATCHES, TYPE IV, 8 INCH	SQ YD	458		458		
44201007	CLASS B PATCHES, TYPE II, 13 INCH	SQ YD	3,093		3,093		
44201011	CLASS B PATCHES, TYPE III, 13 INCH	SQ YD	387		387		
44201013	CLASS B PATCHES, TYPE IV, 13 INCH	SQ YD	832		832		
44201299	DOWEL BARS 1 1/2"	EACH	5,688		5,688		
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	779		779		

* SPECIALTY ITEM

** NON-PARTICIPATING

PLAN: DATE | BY | SURVEYED | PLOTTED | ALIGNMENT CHECKED | PROF. OF MAX CHECKED | CADD FILE NAME | NOTE BOOK | NO.

PROFILE: DATE | BY | SURVEYED | PLOTTED | PROFILES CHECKED | B.M. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO.

FILE NAME = D264D70-sht-S100.dgn

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DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET NO. 3 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	7
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

REV1/15/19

			URBAN	CONSTRUCTION CODE		
				80% FED 20% STATE	80% FED 20% STATE	100% RRWRD
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	STRUCTURES	SANITARY
				0005	0010	0043
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	98	98		
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	98	98		
44213200	SAW CUTS	FOOT	8,529	8,529		
44213204	TIE BARS 3/4"	EACH	366	366		
44300100	AREA REFLECTIVE CRACK CONTROL TREATMENT	SQ YD	48,872.0	48,872.0		
48101498	AGGREGATE SHOULDERS, TYPE B 4"	SQ YD	1,440	1,440		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	3,665	3,665		
48203006	HOT-MIX ASPHALT SHOULDERS, 2 1/4"	SQ YD	23,457	23,457		
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	805	805		
48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SQ YD	484	484		
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1	
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1		1	
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1		1	
50100600	REMOVAL OF EXISTING STRUCTURES NO. 4	EACH	1		1	

* SPECIALTY ITEM

** NON-PARTICIPATING

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = D264D70-sht-S100.dgn

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	DRAWN - DJC	REVISED -
	CHECKED - DMS	REVISED -
	DATE - 12/14/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET NO. 4 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	8
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

REV 1/15/19

PLAN | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. ____ | BY | DATE

PROFILE | SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO. ____ | BY | DATE

URBAN

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FED 20% STATE ROADWAY 0005	80% FED 20% STATE STRUCTURES 0010	100% RRWRD SANITARY 0043
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	1039		1039	
51500100	NAME PLATES	EACH	1		1	
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	481		481	
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	8		8	
54011106	PRECAST CONCRETE BOX CULVERTS 11' X 6'	FOOT	1,064.0		1,064.0	
542A0235	PIPE CULVERTS, CLASS A, TYPE 1 30"	FOOT	63	63		
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	184	184		
542D0241	PIPE CULVERTS, CLASS D, TYPE 1 36"	FOOT	137	137		
54246405	INLET BOX, STANDARD 542531	EACH	4	4		
54260315	TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTION	FOOT	1,190		1,190	
54260636	SLOPED METAL END SECTION WITH GRATE, STANDARD 542411, 36", 1:4	EACH	2	2		
54260724	SLOPED METAL END SECTION WITH GRATE, STANDARD 542411, 24", 1:6	EACH	2	2		
54260736	SLOPED METAL END SECTION WITH GRATE, STANDARD 542411, 36", 1:6	EACH	4	4		
54261630	CONCRETE END SECTION, STANDARD 542001, 30", 1:6	EACH	2	2		
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4		

* SPECIALTY ITEM

** NON-PARTICIPATING

FILE NAME = D264D70-sht-S100.dgn

KNIGHT Engineers & Architects

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	DRAWN - DJC	REVISED -
	CHECKED - DMS	REVISED -
	DATE - 12/14/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET NO. 5 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	9
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

REV. 1/23/19 REV 1/15/19

PLAN | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. ____ | BY | DATE

PROFILE | SURVEYED | PLOTTED | PROFILE CHECKED | B.M. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO. ____ | BY | DATE

URBAN

CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% FED 20% STATE ROADWAY 0005	80% FED 20% STATE STRUCTURES 0010	100% RRWRD SANITARY 0043
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	272	272		
60108104	PIPE UNDERDRAINS, TYPE 1, 4"	FOOT	685	685		
60246605	MEDIAN INLET (604101)	EACH	2	2		
60260100	INLETS TO BE ADJUSTED	EACH	14	14		
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	3	3		
60266600	VALVE BOXES TO BE ADJUSTED	EACH	2	2		
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	27.0	27.0		
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	40.0	40.0		
63200310	GUARDRAIL REMOVAL	FOOT	2,755	2,755		
63500105	DELINEATORS	EACH	10	10		
63800920	MODULAR GLARE SCREEN SYSTEM, TEMPORARY	FOOT	2,150	2,150		
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	50	50		
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1		
* 66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	15	15		

* SPECIALTY ITEM

** NON-PARTICIPATING

FILE NAME = D264D70-sht-S100.dgn

KNIGHT Engineers & Architects

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DRAWN - DJC	REVISED -	
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DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET NO. 6 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	10
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

REV 1/15/19

				URBAN	CONSTRUCTION CODE		
					80% FED 20% STATE	80% FED 20% STATE	100% RRWRD
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY		ROADWAY	STRUCTURES	SANITARY
					0005	0010	0043
* 6691003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1		1		
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1		1		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7		7		
67100100	MOBILIZATION	L SUM	1		1		
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	LSUM	1		1		
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	LSUM	1		1		
70100410	TRAFFIC CONTROL AND PROTECTION, STANDARD 701416	EACH	2		2		
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	6		6		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1		1		
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1		1		
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	LSUM	1		1		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1		1		
* 70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	15		15		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	9,112		9,112		

* SPECIALTY ITEM
** NON-PARTICIPATING

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KNIGHT Engineers & Architects

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET NO. 7 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	11
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

REV 1/15/19

			URBAN	CONSTRUCTION CODE		
				80% FED 20% STATE	80% FED 20% STATE	100% RRWRD
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	STRUCTURES	SANITARY
				0005	0010	0043
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	3,038	3,038		
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	47	47		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	24,434	24,434		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	124	124		
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	492	492		
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	76	76		
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	11	11		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,862.5	1,862.5		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,862.5	1,862.5		
70600251	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1		
70600352	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1		
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1,142	1,142		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	96,825	96,825		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	4,934	4,934		

* SPECIALTY ITEM

** NON-PARTICIPATING

PLAN: DATE | BY | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO.

PROFILE: DATE | BY | SURVEYED | PLOTTED | GRADES CHECKED | BM. NOTED | STRUCTURE NOTATIONS CHKD | NOTE BOOK | NO.

FILE NAME = D264D70-sht-S00.dgn

KNIGHT Engineers & Architects

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DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET NO. 8 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	12
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

REV 1/15/19

				URBAN	CONSTRUCTION CODE		
					80% FED 20% STATE	80% FED 20% STATE	100% RRWRD
	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	STRUCTURES	SANITARY
					0005	0010	0043
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	11,529	11,529		
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2,469	2,469		
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	895	895		
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	687	687		
	78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	160	160		
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	17	17		
*	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	26	26		
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	584	584		
	X0322288	MEDIAN CLOSURE	EACH	2	2		
	X0322392	BEVELED PIPE AND GUARD	EACH	3	3		
	X0326649	LINEAR DELINEATOR PANELS, 6 INCH	EACH	66	66		
	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	3,533	3,533		
	X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	1,569		1,569.0	
	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	3	3		

* SPECIALTY ITEM
** NON-PARTICIPATING

PLAN: DATE | BY | SURVEYED | PLOTTED | ALIGNMENT CHECKED | PROF. OF MAX CHECKED | CADD FILE NAME | NOTE BOOK | NO.

PROFILE: DATE | BY | SURVEYED | PLOTTED | PROFILE CHECKED | B.M. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO.

FILE NAME = D264D70-sht-S100.dgn

KNIGHT Engineers & Architects

	DESIGNED - DJC	REVISED -
	DRAWN - DJC	REVISED -
	CHECKED - DMS	REVISED -
	DATE - 12/14/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET NO. 9 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	13
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

REV 1/15/19

				URBAN	CONSTRUCTION CODE		
					80% FED 20% STATE	80% FED 20% STATE	100% RRWRD
	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	STRUCTURES	SANITARY
					0005	0010	0043
	X4023000	TEMPORARY ACCESS (ROAD)	EACH	1	1		
	X4400110	TEMPORARY PAVEMENT REMOVAL	SQ YD	93	93		
	X4400196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	3,214	3,214		
	X5015225	PIPE CULVERT REMOVAL (SPECIAL)	FOOT	53	53		
**	X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	12			12
**	X6026056	SANITARY MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	5			5
**	X6026057	SANITARY MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	4			4
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
*	7010725	CHANGEABLE MESSAGE SIGN	CAL DA	70	70		
	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	3,484	3,484		
	X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	38	38		
*	X7830068	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS, NUMBERS AND SYMBOLS	SQ FT	2,210	2,210		
*	X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	38,583	38,583		
*	X7830074	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	4,934	4,934		

* SPECIALTY ITEM

** NON-PARTICIPATING

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, PROFILE CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO.

PROFILE: SURVEYED, PLOTTED, PROFILE CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO.

FILE NAME = D264D70-sht-S100.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SHEET NO. 10 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	14
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

REV 1/15/19

PLAN | DATE | BY | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO.

PROFILE | DATE | BY | SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO.

URBAN

	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: 80% FED 20% STATE ROADWAY 0005	80% FED 20% STATE STRUCTURES 0010	100% RRWRD SANITARY 0043
•	X7830076	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	10,841	10,841		
•	X7830078	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	2,129	2,129		
•	X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	337	337		
•	X8860400	DETECTOR LOOP, SPECIAL	FOOT	1,188	1,188		
•	A2000114	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	2	2		
	Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1		
	Z0028415	GEOTECHNICAL REINFORCEMENT	SQ YD	3,866	3,866		
	Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	20,522	20,522		
	Z0034105	MATERIAL TRANSFER DEVICE	TON	31,617	31,617		
*	Z0054500	ROCK FILL	TON	2,130		2,130	
	Z0062456	TEMPORARY PAVEMENT	SQ YD	93	93		
	Z0065752	SLOTTED DRAIN 12" WITH 6" SLOT	FOOT	497	497		
Ø	Z0076600	TRAINEES	HOUR	500	500		
Ø	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500		

Ø 0042
* SPECIALTY ITEM
** NON-PARTICIPATING

FILE NAME = D264D70-sht-SOD.dgn

KNIGHT Engineers & Architects

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	DRAWN - DJC	REVISED -
	CHECKED - DMS	REVISED -
	DATE - 12/14/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

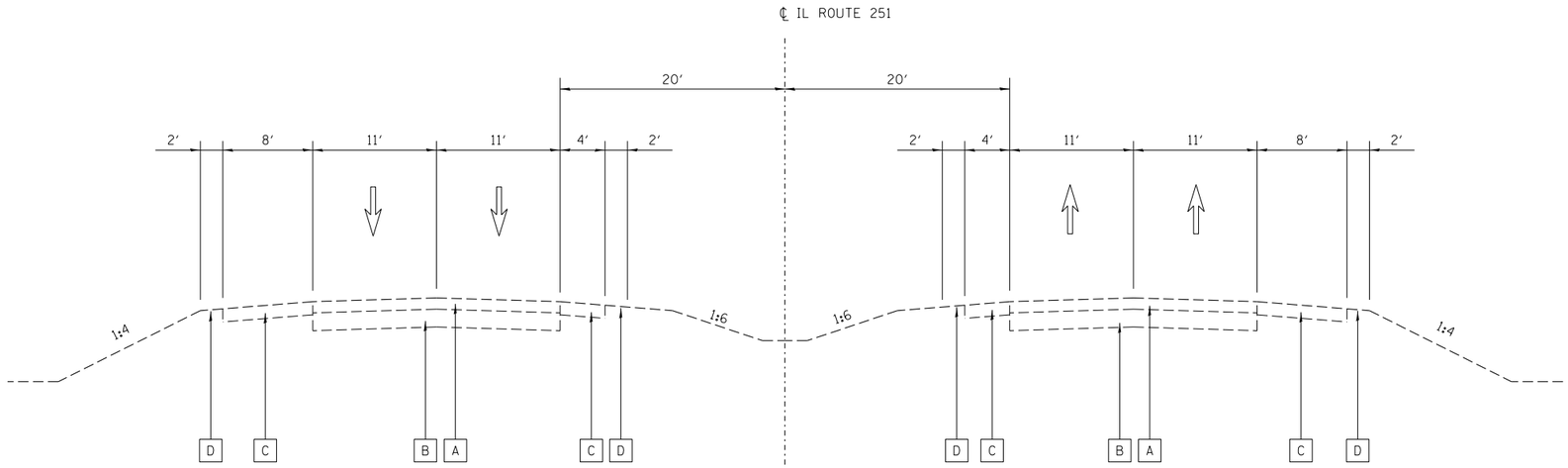
SHEET NO. 11 OF 11 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	15
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

REV. 2/4/19 REV 1/15/19

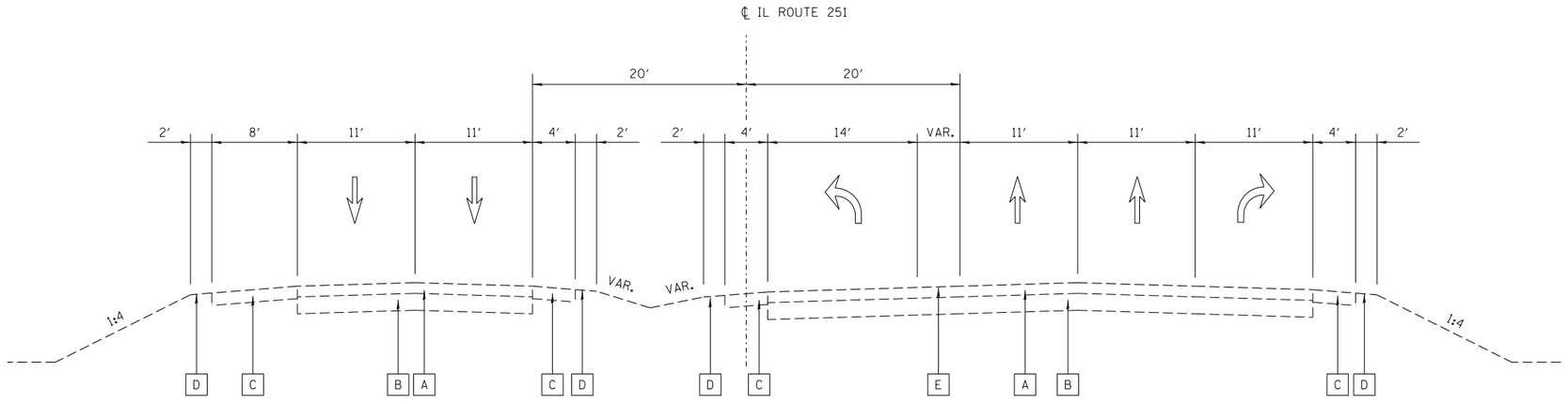
EXISTING LEGEND:

- A EXISTING 6" HOT-MIX ASPHALT OVERLAY
- B EXISTING 10" CONCRETE PAVEMENT
- C EXISTING 8" HOT-MIX ASPHALT SHOULDERS
- D EXISTING AGGREGATE SHOULDER
- E EXISTING PAINTED MEDIAN
- F EXISTING 8" HOT-MIX ASPHALT PAVEMENT
- G EXISTING BRIDGE SLAB



EXISTING IL ROUTE 251

STA. 167+58 TO STA. 184+67
STA. 185+75 TO STA. 206+38
STA. 233+92.26 TO STA. 248+82.18



EXISTING IL ROUTE 251

NB - STA. 153+65.79 TO STA. 160+93.38
SB - STA. 158+11.45 TO STA. 160+93.38
STA. 206+38 TO STA. 213+89.39
STA. 222+50 TO STA. 228+05.36

PLAN
NOTE BOOK
NO. ____
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK
NO. ____
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
BY
DATE

FILE NAME = D264D70-sht-Typicals.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

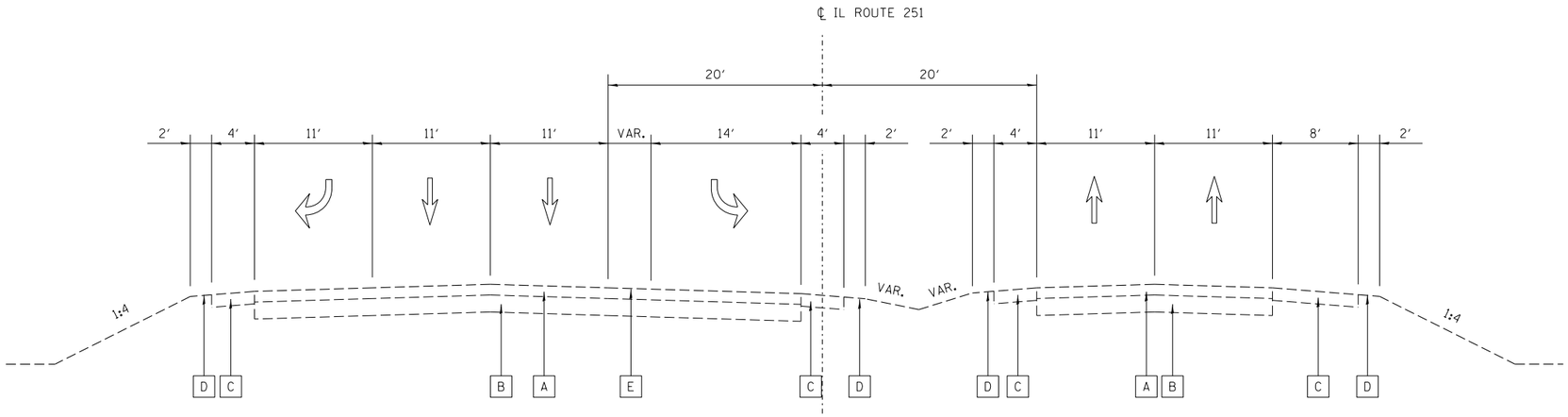
SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	16
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXISTING LEGEND:

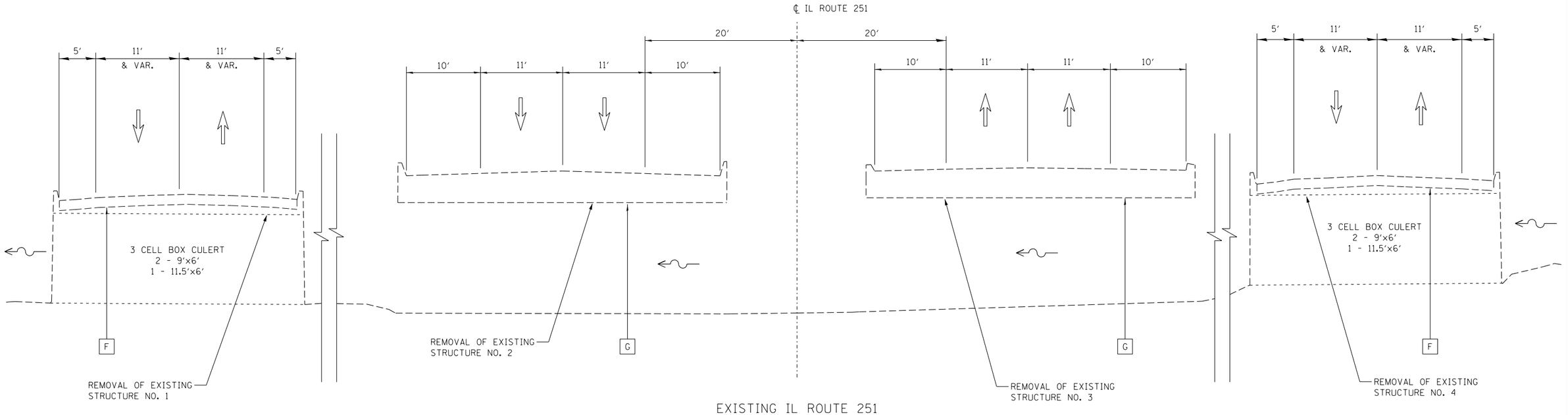
- A EXISTING 6'' HOT-MIX ASPHALT OVERLAY
- B EXISTING 10'' CONCRETE PAVEMENT
- C EXISTING 8'' HOT-MIX ASPHALT SHOULDERS
- D EXISTING AGGREGATE SHOULDER
- E EXISTING PAINTED MEDIAN
- F EXISTING 8'' HOT-MIX ASPHALT PAVEMENT
- G EXISTING BRIDGE SLAB

PLAN
DATE / BY
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.



EXISTING IL ROUTE 251
STA. 161+80 TO STA. 167+58
STA. 213+89.39 TO STA. 222+50
STA. 228+05.46 TO STA. 233+92.26

PROFILE
DATE / BY
SURVEYED
PLOTTED
DRAWN / CHECKED
B.M. NOTED
STRUCTURE NO'TA'NS CHK'D
NOTE BOOK
NO.



EXISTING IL ROUTE 251
CULVERT SECTION
STA. 184+67 TO STA. 185+75

FILE NAME = D264070-sht-typicals.dgn

KNIGHT
Engineers & Architects

	DESIGNED - DJC	REVISED -
	DRAWN - DJC	REVISED -
	CHECKED - DMS	REVISED -
	DATE - 12/14/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	17
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EXISTING LEGEND:

A EXISTING 6" HOT-MIX ASPHALT OVERLAY

B EXISTING 10" CONCRETE PAVEMENT

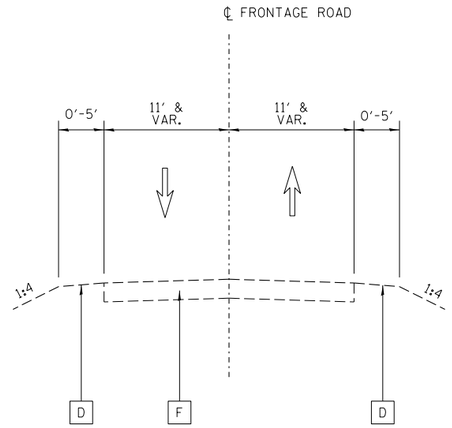
C EXISTING 8" HOT-MIX ASPHALT SHOULDERS

D EXISTING AGGREGATE SHOULDER

E EXISTING PAINTED MEDIAN

F EXISTING 8" HOT-MIX ASPHALT PAVEMENT

G EXISTING BRIDGE SLAB



EXISTING FRONTAGE ROADS

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

FILE NAME = D264D70-sht-Typicals.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

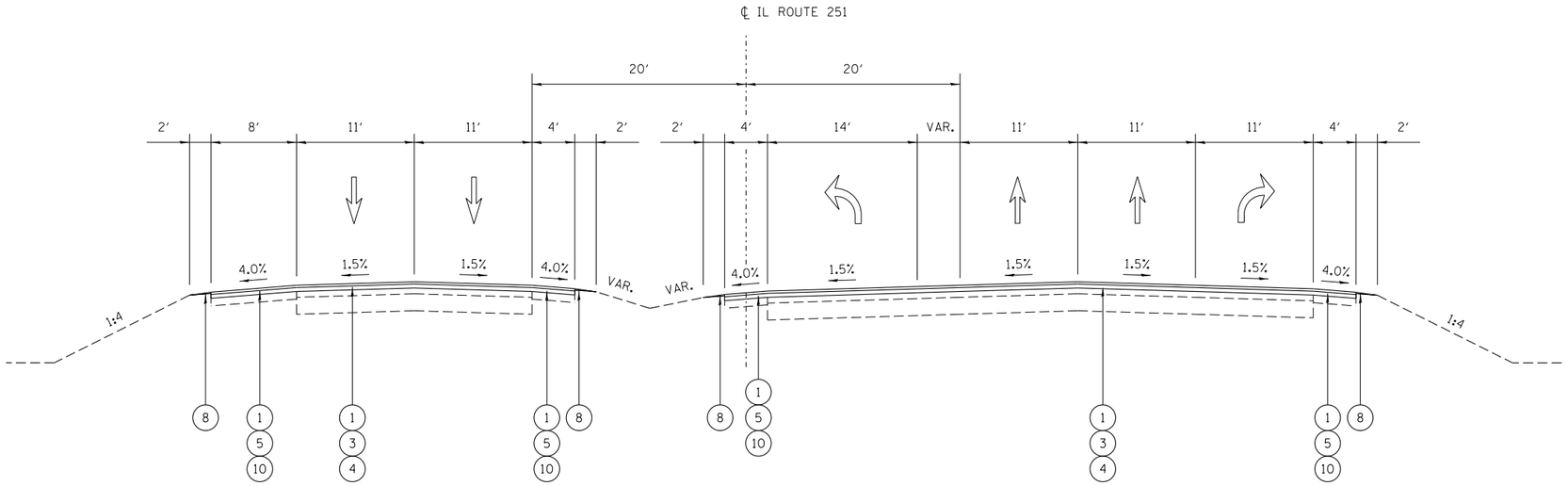
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	18
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROPOSED LEGEND:

1. HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"
2. AREA REFLECTIVE CRACK CONTROL TREATMENT
3. 1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N70
4. 2¼" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
5. HOT-MIX ASPHALT SHOULDERS, 2 ¼"
6. CLASS B PATCHES, TYPE IV, 8 INCH
7. CLASS B PATCHES, TYPE IV, 13 INCH
8. AGGREGATE WEDGE SHOULDER, TYPE B
9. HOT-MIX ASPHALT SHOULDERS, 6 ½"
10. 1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
11. ¾" LEVELING BINDER (MACHINE METHOD), N50
12. AGGREGATE SUBGRADE IMPROVEMENT, 12"
13. HOT-MIX ASPHALT SHOULDERS, 6 ½"
14. PIPE UNDERDRAINS, TYPE 1, 4"
15. TOPSOIL FURNISH AND PLACE, 4"

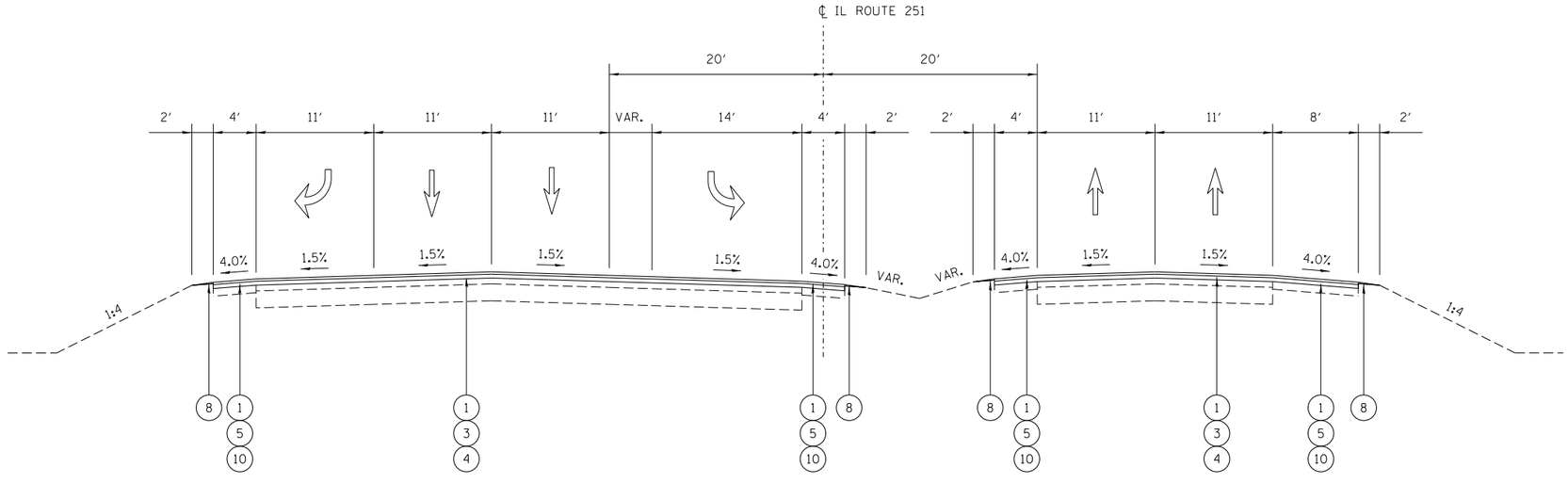
HOT-MIX ASPHALT RATE OF APPLICATION:
IL 251 SURFACE COURSE = 123 LBS / SQ YD INCH
ALL OTHER BITUMINOUS APPLICATIONS = 112 LBS / SQ YD INCH

PLAN
BY | DATE
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.



PROPOSED IL ROUTE 251
NB - STA. 153+65.79 TO STA. 160+93.38
SB - STA. 158+11.45 TO STA. 160+93.38
STA. 206+38 TO STA. 213+89.39
STA. 222+50 TO STA. 228+05.46

PROFILE
BY | DATE
SURVEYED
PLOTTED
CROSS CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.



PROPOSED IL ROUTE 251
STA. 160+93.38 TO STA. 167+58
STA. 213+89.39 TO STA. 222+50
STA. 228+05.46 TO STA. 233+92.26

FILE NAME = D264D70-sht-Typicals.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

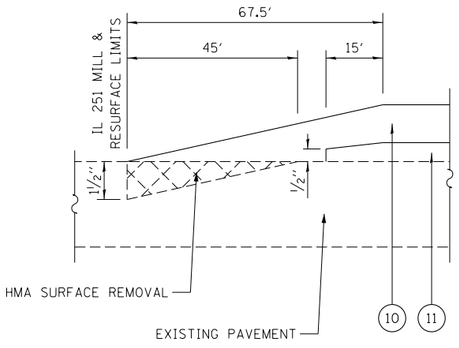
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	19
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROPOSED LEGEND:

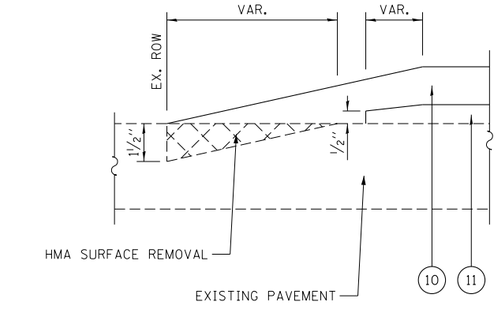
1. HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"
2. AREA REFLECTIVE CRACK CONTROL TREATMENT
3. 1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N70
4. 2¼" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
5. HOT-MIX ASPHALT SHOULDERS, 2 1/4"
6. CLASS B PATCHES, TYPE IV, 8 INCH
7. CLASS B PATCHES, TYPE IV, 13 INCH
8. AGGREGATE WEDGE SHOULDER, TYPE B
9. HOT-MIX ASPHALT SHOULDERS, 6 ½"
10. 1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
11. ¾" LEVELING BINDER (MACHINE METHOD), N50
12. AGGREGATE SUBGRADE IMPROVEMENT, 12"
13. HOT-MIX ASPHALT SHOULDERS, 6 ½"
14. PIPE UNDERDRAINS, TYPE 1, 4"
15. TOPSOIL FURNISH AND PLACE, 4"

HOT-MIX ASPHALT RATE OF APPLICATION:

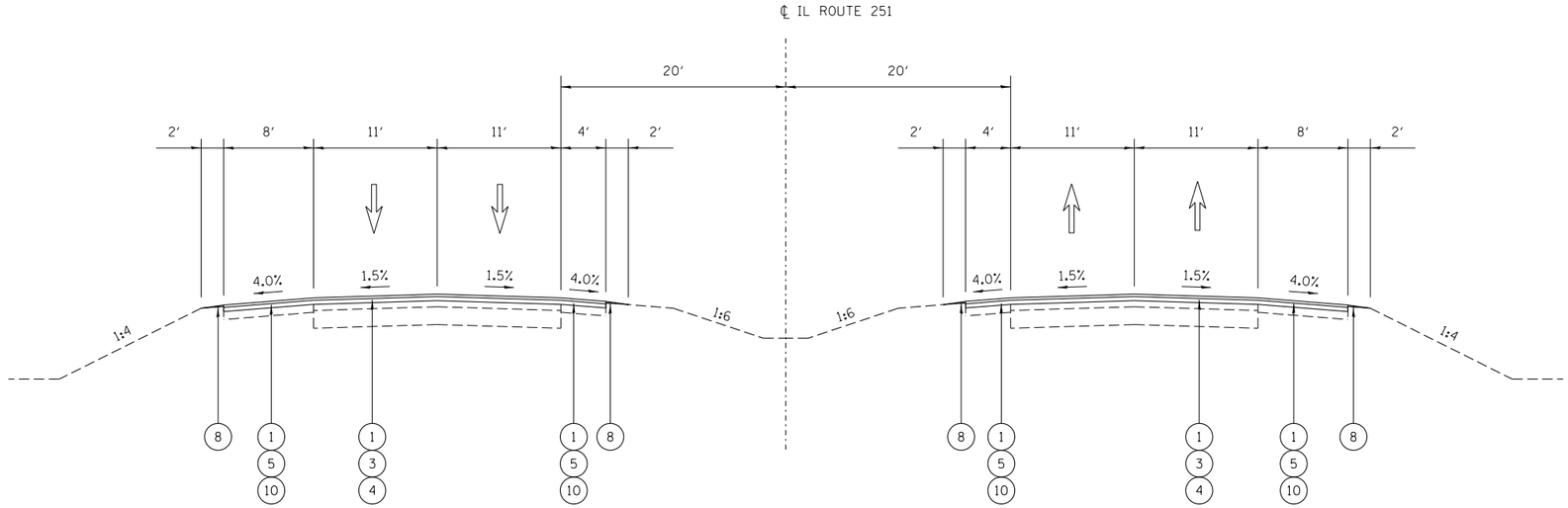
IL 251 SURFACE COURSE = 123 LBS / SQ YD INCH
ALL OTHER BITUMINOUS APPLICATIONS = 112 LBS / SQ YD INCH



BUTT-JOINT DETAIL

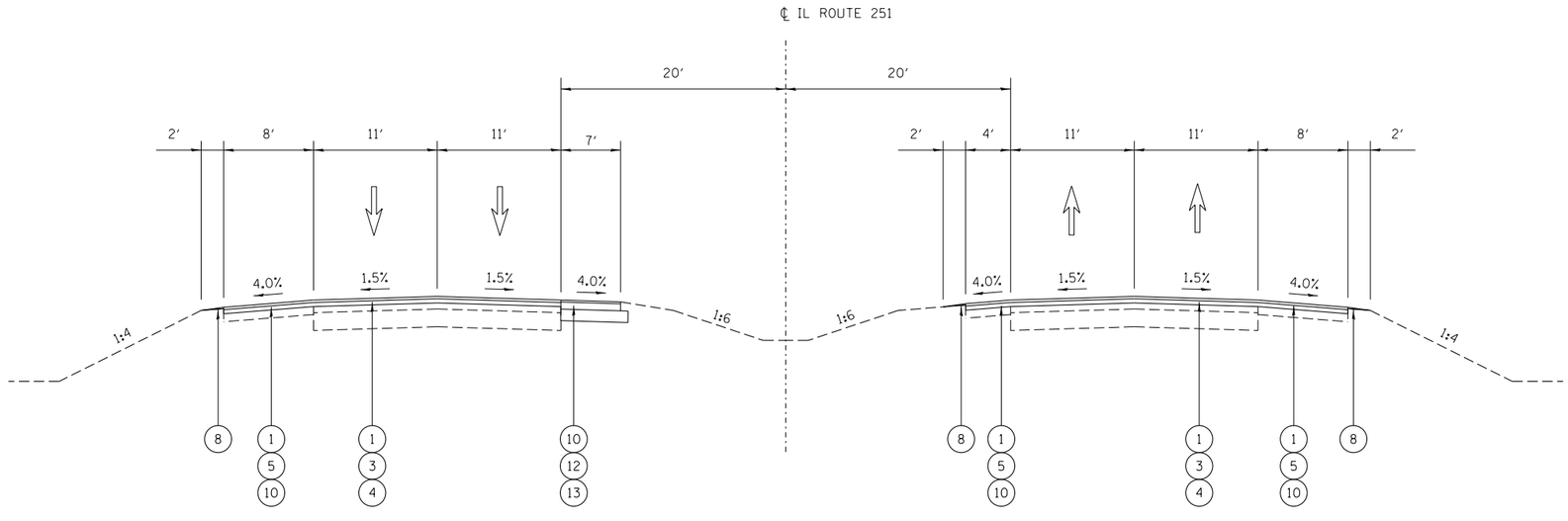


INCIDENTAL HMA SURFACING DETAIL AT COMMERCIAL ENTRANCES & SIDE ROADS



PROPOSED IL ROUTE 251

STA. 167+58 TO STA. 182+86
STA. 186+66 TO STA. 206+38
STA. 233+92.26 TO STA. 248+82.18



IL ROUTE 251
CULVERT SECTION
LT SIDE

STA. 182+86 TO STA. 184+73
STA. 185+64 TO STA. 186+66

IL ROUTE 251
CULVERT SECTION
RT SIDE

STA. 182+66 TO STA. 184+78
STA. 185+69 TO STA. 186+66

PLAN
SURVEYED
PLOTTED
QUANTITIES CHECKED
ALIGNMENT CHECKED
BM. NOTED
RT. OF WAY CHECKED
STRUCTURE NOTATNS CHKD
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
QUANTITIES CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

FILE NAME = D264070-sht-Typicals.dgn

KNIGHT
Engineers & Architects

	DESIGNED - DJC	REVISED -	
	DRAWN - DJC	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

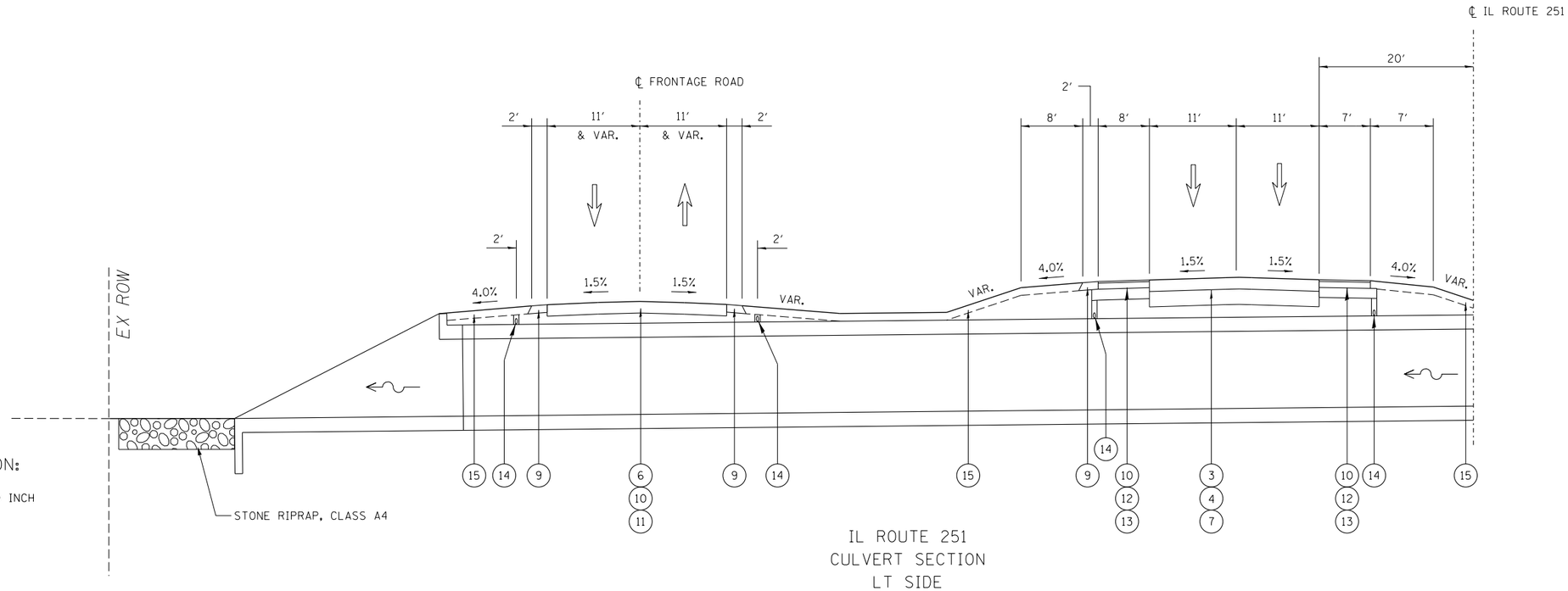
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	20
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROPOSED LEGEND:

1. HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"
2. AREA REFLECTIVE CRACK CONTROL TREATMENT
3. 1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N70
4. 2¼" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
5. HOT-MIX ASPHALT SHOULDERS, 2 ¼"
6. CLASS B PATCHES, TYPE IV, 8 INCH
7. CLASS B PATCHES, TYPE IV, 13 INCH
8. AGGREGATE WEDGE SHOULDER, TYPE B
9. AGGREGATE SHOULDERS, TYPE B 4"
10. 1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
11. ¾" LEVELING BINDER (MACHINE METHOD), N50
12. AGGREGATE SUBGRADE IMPROVEMENT, 12"
13. HOT-MIX ASPHALT SHOULDERS, 6 ½"
14. PIPE UNDERDRAINS, TYPE 1, 4"
15. TOPSOIL FURNISH AND PLACE, 4"

HOT-MIX ASPHALT RATE OF APPLICATION:
IL 251 SURFACE COURSE = 123 LBS / SQ YD INCH
ALL OTHER BITUMINOUS APPLICATIONS = 112 LBS / SQ YD INCH

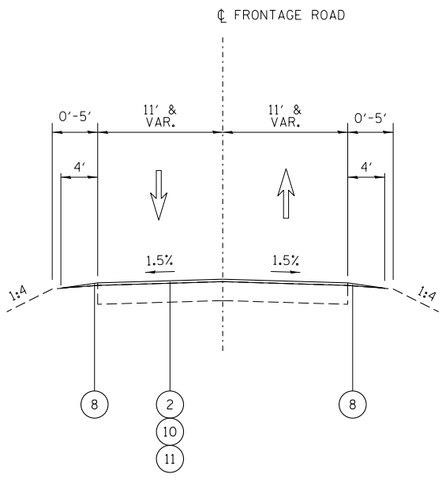
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DATE / BY
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.



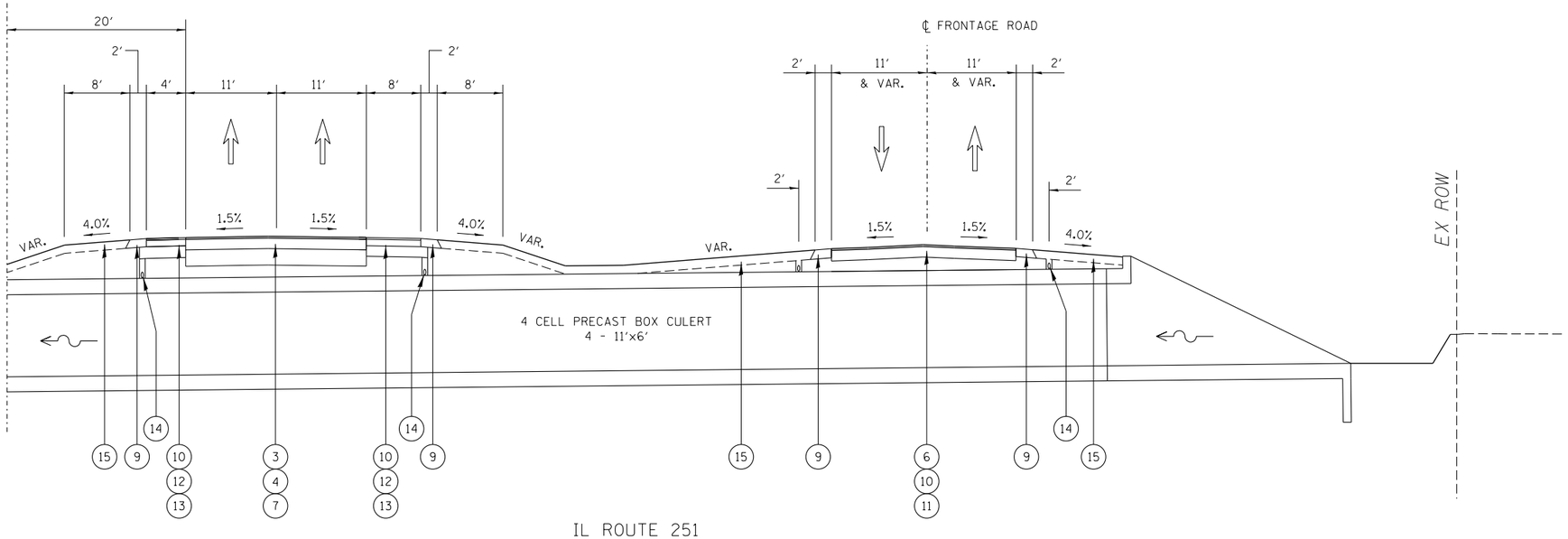
IL ROUTE 251
CULVERT SECTION
LT SIDE

STA. 184+73 TO STA. 185+64

PROFILE
DATE / BY
SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.



PROPOSED FRONTAGE ROADS



IL ROUTE 251
CULVERT SECTION
RT SIDE

STA. 184+78 TO STA. 185+69

FILE NAME = D264070-sht-Typicals.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	21
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

UNIT	STA	OFF	REMARKS
	IL 251		
20	1124+26	LT	W FRNT RD
20	1124+30	LT	W FRNT RD
40	**TOTAL**		

STAGE	LOCATION	20200100 EARTH EXCAVATION (CU YD)	EARTH EXCAVATION FOR EMBANKMENT ADJUSTED FOR SHRINKAGE (25%) (CU YD)	EMBANKMENT (CU YD)	20400800 EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (SEE NOTE 3) (CU YD)
STAGE 1	IL 251				
	STA 177+50 TO STA 179+42.21	0	0	62.1	-62.1
	STA 181+21.45 TO STA 183+00	0	0	66.3	-66.3
	STA 189+00 TO STA 190+70.38	0	0	73.9	-73.9
	STA 192+50 TO STA 194+50	0	0	66.2	-66.2
STAGE 1 SUBTOTAL		0	0	269.0	-269.0
STAGE 2	IL 251				
	STA 183+00 TO STA 184+23.11	40.7	31.0	26.9	4.1
	STA 184+43.20 TO STA 188+00	235.3	177.0	307.8	-130.8
	STA 188+27.14 TO STA 191+00	198.4	149.0	5.7	143.3
	FRONTAGE RD - DRIVEWAYS & CULVERTS				
	STA 1122+83.29 TO STA 1123+99.92	100.2	76.0	0.0	76.0
	STA 1124+47.23 TO STA 1125+34.90	118.6	89.0	0.0	89.0
	STA 1126+96.25 TO STA 1127+60.70	132.3	100.0	0.0	100.0
STAGE 2 SUBTOTAL		825	622	341	282
STAGE 3	IL 251				
	STA 182+50 TO STA 184+23	0	0	84.8	-84.8
	STA 184+50 TO STA 186+50	257.4	194	369.0	-175.0
	STA 254+33 TO STA 255+08	1.0	1	0.0	1.0
	FRONTAGE ROAD - DRIVEWAY				
	STA 2123+25.76 TO STA 2123+82.25	48.9	37.0	0.0	37.0
STAGE 3 SUBTOTAL		308	232	454	-222
TOTAL		1135	855	1065	-210

EARTHWORK NOTES:

1. EARTH EXCAVATION, STOCKPILE (IF REQUIRED) AND SUBSEQUENT PLACEMENT (WHEN APPLICABLE) SHALL ONLY BE MEASURED AND PAID FOR ONCE, AND NOT FOR EACH TRANSPORT. EARTH EXCAVATION TO BE STOCKPILED, REQUIRES APPROVAL BY THE ENGINEER. ALL STOCKPILES MUST BE REMOVED BY THE END OF PROJECT CONSTRUCTION.

2. SUITABLE EARTH EXCAVATION SHALL REMAIN ON SITE WITHIN THE PROJECT LIMITS AND BE PLACED AT THE DIRECTION OF THE ENGINEER.

3. (-) INDICATES SHORTAGE, FURNISHED EXCAVATION OR EARTH EXCAVATION IS REQUIRED.
   (+) INDICATES SURPLUS, EARTH EXCAVATION TO BE USED ELSEWHERE WITHIN PROJECT OR HAULED OFF.

4. EXISTING TOPSOIL EXCAVATION SHALL BE MEASURED IN PLACE AND PAID PER CUBIC YARD AS "TOPSOIL EXCAVATION AND PLACEMENT". EXISTING TOPSOIL THAT IS SUITABLE FOR USE AS PROPOSED TOPSOIL SHALL BE STOCKPILED AT THE DIRECTION OF THE ENGINEER AND PLACED TO THE LINES, GRADES, AND THICKNESSES AS SHOWN ON THE PLANS, AND THIS WORK SHALL BE INCLUDED IN "TOPSOIL EXCAVATION AND PLACEMENT".

5. ANY ADDITIONAL TOPSOIL PLACEMENT REQUIRED SHALL BE OBTAINED AND PLACED BY THE CONTRACTOR ACCORDING TO THE STANDARD SPECIFICATIONS AND PAID PER SQUARE YARD AS "TOPSOIL FURNISH AND PLACE, 4".

21101505 TOPSOIL EXCAVATION AND PLACEMENT

CU YD	STA	STA	LT/CTR/RT	*SQ FT	REMARKS
	IL 251				
34	177+78	179+42	CTR	2,709	
116	181+22	184+95	CTR	9,339	
49	183+43	184+08	LT	3,916	
35	183+77	184+32	RT	2,773	
46	184+00	184+90	LT	3,696	
56	184+00	185+00	RT	4,500	
159	184+30	185+64	LT	12,823	
202	184+55	187+50	RT	16,334	
48	185+41	186+33	LT	3,870	
177	185+47	190+70	CTR	14,295	
44	185+54	186+33	RT	3,514	
106	185+58	188+04	LT	8,551	
110	188+23	190+85	LT	8,890	
25	191+21	191+88	LT	1,954	
34	192+50	194+14	CTR	2,709	
27	254+33	255+08	CTR	2,113	
			* AREA MEASURED IN CAD		
1268	**TOTAL**				
1270	**ROUNDED**				

21101615 TOPSOIL FURNISH AND PLACE, 4"

SQ YD	STA	STA	LT/CTR/RT	*SQ FT	REMARKS
	IL 251				
301	177+78	179+42	CTR	2,709	
1038	181+22	184+95	CTR	9,339	
435	183+43	184+08	LT	3,916	
308	183+77	104+32	RT	2,773	
411	184+00	184+90	LT	3,696	
500	184+00	185+00	RT	4,500	
1425	184+30	185+64	LT	12,823	
1815	184+55	187+50	RT	16,334	
430	185+41	186+33	LT	3,870	
1588	185+47	190+70	CTR	14,295	
390	185+54	186+33	RT	3,514	
950	185+58	188+04	LT	8,551	
988	188+23	190+85	LT	8,890	
217	191+21	191+88	LT	1,954	
301	192+50	194+14	CTR	2,709	
235	254+33	255+08	CTR	2,113	
11331.78	**TOTAL**			*AREA MEASURED IN CAD	
11332	**ROUNDED**				

25000210 SEEDING, CLASS 2A

ACRE	STA	STA	LT/CTR/RT	*SQ FT	REMARKS
	IL 251				
0.062	177+78	179+42	CTR	2,709	
0.214	181+22	184+95	CTR	9,339	
0.090	183+43	184+08	LT	3,916	
0.064	183+77	104+32	RT	2,773	
0.085	184+00	184+90	LT	3,696	
0.103	184+00	185+00	RT	4,500	
0.294	184+30	185+64	LT	12,823	
0.375	184+55	187+50	RT	16,334	
0.089	185+41	186+33	LT	3,870	
0.328	185+47	190+70	CTR	14,295	
0.081	185+54	186+33	RT	3,514	
0.196	185+58	188+04	LT	8,551	
0.204	188+23	190+85	LT	8,890	
0.045	191+21	191+88	LT	1,954	
0.062	192+50	194+14	CTR	2,709	
0.049	254+33	255+08	CTR	2,113	
2.34	**TOTAL**			*AREA MEASURED IN CAD	
2.50	**ROUNDED**				

25000750 MOWING

ACRE	STA	STA	LT/CTR/RT	*SQ FT	REMARKS
	IL 251				
0.062	177+78	179+42	CTR	2,709	
0.214	181+22	184+95	CTR	9,339	
0.090	183+43	184+08	LT	3,916	
0.064	183+77	104+32	RT	2,773	
0.085	184+00	184+90	LT	3,696	
0.103	184+00	185+00	RT	4,500	
0.294	184+30	185+64	LT	12,823	
0.375	184+55	187+50	RT	16,334	
0.089	185+41	186+33	LT	3,870	
0.328	185+47	190+70	CTR	14,295	
0.081	185+54	186+33	RT	3,514	
0.196	185+58	188+04	LT	8,551	
0.204	188+23	190+85	LT	8,890	
0.045	191+21	191+88	LT	1,954	
0.062	192+50	194+14	CTR	2,709	
0.049	254+33	255+08	CTR	2,113	
2.34	**TOTAL**			*AREA MEASURED IN CAD	
2.50	**ROUNDED**				

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO. ____, BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, BM. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO. ____, BY, DATE

FILE NAME = D264070-sht-Schedules_200series_001.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SHEET NO. 1 OF 12 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	22
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

25100115 MULCH, METHOD 2

ACRE	STA	STA	LT/CTR/RT	*SQ FT	REMARKS
	IL 251				
0.062	177+78	179+42	CTR	2,709	CL 2A SEEDING
0.214	181+22	184+95	CTR	9,339	CL 2A SEEDING
0.090	183+43	184+08	LT	3,916	CL 2A SEEDING
0.064	183+77	104+32	RT	2,773	CL 2A SEEDING
0.085	184+00	184+90	LT	3,696	CL 2A SEEDING
0.103	184+00	185+00	RT	4,500	CL 2A SEEDING
0.294	184+30	185+64	LT	12,823	CL 2A SEEDING
0.375	184+55	187+50	RT	16,334	CL 2A SEEDING
0.089	185+41	186+33	LT	3,870	CL 2A SEEDING
0.328	185+47	190+70	CTR	14,295	CL 2A SEEDING
0.081	185+54	186+33	RT	3,514	CL 2A SEEDING
0.196	185+58	188+04	LT	8,551	CL 2A SEEDING
0.204	188+23	190+85	LT	8,890	CL 2A SEEDING
0.045	191+21	191+88	LT	1,954	CL 2A SEEDING
0.062	192+50	194+14	CTR	2,709	CL 2A SEEDING
0.049	254+33	255+08	CTR	2,113	CL 2A SEEDING

2.34 TOTAL *AREA MEASURED IN CAD
2.50 ROUNDED

25100630 EROSION CONTROL BLANKET

SQ YD	STA	STA	LT/CTR/RT	*SQ FT	REMARKS
	IL 251				
301	177+78	179+42	CTR	2,709	
1038	181+22	184+95	CTR	9,339	
435	183+43	184+08	LT	3,916	
308	183+77	104+32	RT	2,773	
411	184+00	184+90	LT	3,696	
500	184+00	185+00	RT	4,500	
1425	184+30	185+64	LT	12,823	
1815	184+55	187+50	RT	16,334	
430	185+41	186+33	LT	3,870	
1588	185+47	190+70	CTR	14,295	
390	185+54	186+33	RT	3,514	
950	185+58	188+04	LT	8,551	
988	188+23	190+85	LT	8,890	
217	191+21	191+88	LT	1,954	
301	192+50	194+14	CTR	2,709	
235	254+33	255+08	CTR	2,113	

11331.78 TOTAL *AREA MEASURED IN CAD
11332 ROUNDED

28000250 TEMPORARY EROSION CONTROL SEEDING

POUND	STA	STA	LT/CTR/RT	*ACRE	REMARKS
	IL 251				
6.22	177+78	179+42	CTR	0.062	
21.4	181+22	184+95	CTR	0.214	
8.99	183+43	184+08	LT	0.090	
6.37	183+77	104+32	RT	0.064	
8.5	184+00	184+90	LT	0.085	
10.3	184+00	185+00	RT	0.103	
29.4	184+30	185+64	LT	0.294	
37.50	184+55	187+50	RT	0.375	
8.9	185+41	186+33	LT	0.089	
32.82	185+47	190+70	CTR	0.328	
8.07	185+54	186+33	RT	0.081	
19.63	185+58	188+04	LT	0.196	
20.41	188+23	190+85	LT	0.204	
4.49	191+21	191+88	LT	0.045	
6.22	192+50	194+14	CTR	0.062	
4.85	254+33	255+08	CTR	0.049	

234.13 TOTAL *AREA MEASURED IN CAD
235 ROUNDED

28000305 TEMPORARY DITCH CHECKS

FOOT	STA	LT/CTR/RT
	IL 251	
15	182+36	CTR
15	183+30	CTR
15	186+81	CTR
15	188+16	CTR

60 TOTAL

28000400 PERIMETER EROSION BARRIER

FOOT	STA	STA	LT/CTR/RT	REMARKS
	W. FRONTAGE RD			
69	1122+56	1123+01	LT	
100	1123+44	1124+44	LT	
231	1125+01	1127+06	LT	
271	1127+49	1129+98	LT	
	E. FRONTAGE RD.			
486	2122+50	2127+32	RT	

1157 TOTAL

28000500 INLET AND PIPE PROTECTION

EACH	STA	LT/CTR/RT
	IL 251	
1	179+17	CTR
1	183+87	LT
1	184+02	RT
1	184+59	LT
1	184+63	RT
1	184+79	CTR
1	185+35	RT
1	185+62	CTR
1	185+69	LT
1	185+91	RT
1	186+11	LT
1	188+43	LT
1	189+83	CTR
1	190+08	CTR
1	193+41	CTR

15 TOTAL

28001100 TEMPORARY EROSION CONTROL BLANKET

SQ YD	STA	STA	LT/CTR/RT	*SQ FT	REMARKS
	IL 251				
1424.8	184+30	185+64	LT	12,823	
2167.9	184+55	187+50	RT	19,511	

3592.7 TOTAL *AREA MEASURED IN CAD
3593 ROUNDED

PLAN: SURVEYED, PLOTTED, QUANTITIES CHECKED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO. ____, BY, DATE

PROFILE: SURVEYED, PLOTTED, QUANTITIES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO. ____, BY, DATE

FILE NAME = D264D70-sht-Schedules-200series-002.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SHEET NO. 2 OF 12 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	23
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

30300001 AGGREGATE SUBGRADE IMPROVEMENT

CU YD	STA	STA	REMARKS
	FULL LENGTH IL 251		
1,031	153+66	256+27	OMIT PATCHES OVER CULVERTS
1,031	**TOTAL**		

30300112 AGGREGATE SUBGRADE IMPROVEMENT 12"

SQ YD	STA	STA	OFFSET	REMARKS
	IL 251			
1,341	177+78	182+86	MED.	CROSSOVER
76	184+73	185+64	LT	OUTSIDE SB 8' SHOULDER
296	182+86	186+66	LT	INSIDE SB 7' SHOULDER
39	184+78	185+69	RT	INSIDE NB 4' SHOULDER
76	184+78	185+69	RT	OUTSIDE NB 8' SHOULDER
1,341	189+06	194+14	MED.	CROSSOVER
3,169	**TOTAL**			

31101200 SUBBASE GRANULAR MATERIAL, TYPE B 4"

SQ YD	STAGE	STA	STA	LT/RT	REMARKS
93.0	1	185+35	188+04	RT	MEDIAN
69.0	2	182+85	184+92	LT	MEDIAN
40.0	2	185+47	186+66	LT	MEDIAN
202	**TOTAL**				

35102000 AGGREGATE BASE COURSE, TYPE B 8"

SQ YD	STA.	STA.	OFFSET	REMARKS
	W. FRONTAGE RD.			
227	1124+49	1125+35	LT	COMMERCIAL ENTRANCE
140	1126+96	1127+61	LT	COMMERCIAL ENTRANCE
	E. FRONTAGE RD.			
172	2123+26	2123+82	RT	COMMERCIAL ENTRANCE
539	**TOTAL**			

35102400 AGGREGATE BASE COURSE, TYPE B 12"

SQ YD	STA.	STA.	OFFSET	REMARKS
	W. FRONTAGE RD.			
276	1122+83	1124+00	LT	MILFORD AVE
276	**TOTAL**			

40600275 BITUMINOUS MATERIALS (PRIME COAT)

POUND	STA.	STA	SQ FT	LB/SQ FT	REMARKS
	IL 251				
907	177+87	182+87	3627	0.25	CROSSOVER #1 AGGREGATE
666	182+86	186+66	2664	0.25	SB IL 251 INSIDE SHOULDER AGGREGATE
171	184+73	185+64	684	0.25	SB IL 251 OUTSIDE SHOULDER AGGREGATE
81	184+78	185+69	324	0.25	NB IL 251 OUTSIDE SHOULDER AGGREGATE
171	184+78	185+69	684	0.25	NB IL 251 INSIDE SHOULDER AGGREGATE
907	189+07	194+14	3627	0.25	CROSSOVER #2 AGGREGATE
	EAST FRONTAGE ROAD				
387	2123+26	2123+82	1548	0.25	COMMERCIAL ENTRANCE AGGREGATE
	WEST FRONTAGE ROAD				
621	1122+83	1124+00	2484	0.25	MILFORD AVENUE AGGREGATE
511	1124+49	1125+35	2043	0.25	COMMERCIAL ENTRANCE AGGREGATE
387	1126+96	1127+61	1548	0.25	COMMERCIAL ENTRANCE AGGREGATE
	EAST AND WEST FRONTAGE ROADS				
7007	VARIOUS		28026	0.25	CLASS D PATCHES, TYPE II-AGGREGATE
876	VARIOUS		3503	0.25	CLASS D PATCHES, TYPE III-AGGREGATE
876	VARIOUS		3503	0.25	CLASS D PATCHES, TYPE IV-AGGREGATE
13,566	**TOTAL**				

40600290 BITUMINOUS MATERIALS (TACK COAT)

POUND	STA.	STA	SQ FT	LB/SQ FT	REMARKS
	IL 251				
158	147+14	148+05	3150	0.050	NB IL 251 AND LEONARD RD BUTT JT
79	147+14	148+05	3150	0.025	NB IL 251 AND LEONARD RD BINDER
229	147+23	148+29	4572	0.050	SB IL 251 AND LEONARD RD BUTT JT
114	147+23	148+29	4572	0.025	SB IL 251 AND LEONARD RD BUTT JT
10617	153+66	184+78	212340	0.050	NB/SB IL 251 MILLED SURFACE
5309	153+66	184+78	212340	0.025	NB/SB IL 251 BINDER
220	153+66	160+27	4409	0.050	NB/SB INSIDE SHOULDER MILLED SURFACE
110	153+66	160+27	4409	0.025	NB/SB INSIDE SHOULDER BINDER
218	153+66	160+67	4366	0.050	NB OUTSIDE SHOULDER MILLED SURFACE
109	153+66	160+67	4366	0.025	NB OUTSIDE SHOULDER BINDER
88	158+12	160+54	1760	0.050	SB OUTSIDE SHOULDER MILLED SURFACE
44	158+12	160+54	1760	0.025	SB OUTSIDE SHOULDER BINDER
922	161+27	184+78	18435	0.050	NB OUTSIDE SHOULDER MILLED SURFACE
461	161+27	184+78	18435	0.025	NB OUTSIDE SHOULDER BINDER
859	161+31	184+73	17175	0.050	SB OUTSIDE SHOULDER MILLED SURFACE
429	161+31	184+73	17175	0.025	SB OUTSIDE SHOULDER BINDER
655	161+64	177+78	13108	0.050	NB/SB INSIDE SHOULDER MILLED SURFACE
328	161+64	177+78	13108	0.025	NB/SB INSIDE SHOULDER BINDER
91	177+87	182+87	3627	0.025	CROSSOVER #1 AGGREGATE
34	182+86	184+73	686	0.050	SB INSIDE SHOULDER MILLED SURFACE
17	182+86	184+73	686	0.025	SB INSIDE SHOULDER BINDER
39	182+86	184+78	778	0.050	NB INSIDE SHOULDER MILLED SURFACE
19	182+86	184+78	778	0.025	NB INSIDE SHOULDER BINDER
67	184+73	185+64	2664	0.025	SB INSIDE SHOULDER OVER STRUCTURE BINDER
200	184+78	185+64	4007	0.050	NB/SB IL 251 OVER STRUCTURE PCC
100	184+78	185+64	4007	0.025	NB/SB IL 251 OVER STRUCTURE BINDER
24175	185+64	256+27	483507	0.050	NB/SB IL 251 MILLED SURFACE
12088	185+64	256+27	483507	0.025	NB/SB IL 251 BINDER
68	185+64	189+06	1356	0.050	SB INSIDE SHOULDER MILLED SURFACE
34	185+64	189+06	1356	0.025	SB INSIDE SHOULDER BINDER
65	185+69	189+06	1303	0.050	NB INSIDE SHOULDER MILLED SURFACE
33	185+69	189+06	1303	0.025	NB INSIDE SHOULDER BINDER
17	184+73	185+64	684	0.025	SB OUTSIDE SHOULDER BINDER
8	184+78	185+69	324	0.025	NB INSIDE SHOULDER BINDER
17	184+78	185+69	684	0.025	NB OUTSIDE SHOULDER BINDER
1043	185+64	213+36	20855	0.050	SB OUTSIDE SHOULDER MILLED SURFACE
521	185+64	213+36	20855	0.025	SB OUTSIDE SHOULDER BINDER
976	185+69	213+34	19511	0.050	NB OUTSIDE SHOULDER MILLED SURFACE
488	185+69	213+34	19511	0.025	NB OUTSIDE SHOULDER BINDER
91	189+07	194+14	3627	0.025	CROSSOVER #2 AGGREGATE
335	194+14	211+36	6703	0.050	NB INSIDE SHOULDER MILLED SURFACE
168	194+14	211+36	6703	0.025	NB INSIDE SHOULDER BINDER
355	194+14	212+83	7106	0.050	SB INSIDE SHOULDER MILLED SURFACE
178	194+14	212+83	7106	0.025	SB INSIDE SHOULDER BINDER
595	215+13	227+71	11891	0.050	NB OUTSIDE SHOULDER MILLED SURFACE
297	215+13	227+71	11891	0.025	NB OUTSIDE SHOULDER BINDER
419	215+18	226+70	8383	0.050	SB OUTSIDE SHOULDER MILLED SURFACE
210	215+18	226+70	8383	0.025	SB OUTSIDE SHOULDER BINDER
249	215+68	227+16	4987	0.050	NB INSIDE SHOULDER MILLED SURFACE
125	215+68	227+16	4987	0.025	NB INSIDE SHOULDER BINDER
213	217+09	226+94	4256	0.050	SB INSIDE SHOULDER MILLED SURFACE
106	217+09	226+94	4256	0.025	SB INSIDE SHOULDER BINDER
405	228+48	239+43	8093	0.050	NB OUTSIDE SHOULDER MILLED SURFACE
202	228+48	239+43	8093	0.025	NB OUTSIDE SHOULDER BINDER
565	228+82	256+27	11300	0.050	NB INSIDE SHOULDER MILLED SURFACE
283	228+82	256+27	11300	0.025	NB INSIDE SHOULDER BINDER
344	229+07	241+11	6872	0.050	SB OUTSIDE SHOULDER MILLED SURFACE
172	229+07	241+11	6872	0.025	SB OUTSIDE SHOULDER BINDER
494	230+43	256+27	9870	0.050	SB INSIDE SHOULDER MILLED SURFACE
247	230+43	256+27	9870	0.025	SB INSIDE SHOULDER BINDER
472	239+44	251+53	9443	0.050	NB OUTSIDE SHOULDER MILLED SURFACE
236	239+44	251+53	9443	0.025	NB OUTSIDE SHOULDER BINDER
337	241+24	250+31	6739	0.050	SB OUTSIDE SHOULDER MILLED SURFACE
168	241+24	250+31	6739	0.025	SB OUTSIDE SHOULDER BINDER
241	248+91	254+98	4819	0.050	SB OUTSIDE SHOULDER MILLED SURFACE
120	248+91	254+98	4819	0.025	SB OUTSIDE SHOULDER BINDER
255	250+07	256+22	5100	0.050	NB OUTSIDE SHOULDER MILLED SURFACE
128	250+07	256+22	5100	0.025	NB OUTSIDE SHOULDER BINDER
99	253+54	256+27	1976	0.050	SB OUTSIDE SHOULDER MILLED SURFACE
	IL 251				
49	253+54	256+27	1976	0.025	SB OUTSIDE SHOULDER BINDER

40600290 BITUMINOUS MATERIALS (TACK COAT) (CONTINUED)

POUND	STA.	STA	SQ FT	LB/SQ FT	REMARKS
46	255+53	256+27	929	0.050	NB OUTSIDE SHOULDER MILLED SURFACE
23	255+53	256+27	929	0.025	NB OUTSIDE SHOULDER BINDER
	WEST FRONTAGE ROAD				
2592	1079+20	972+46	51833	0.050	WEST FRONTAGE COMMERCIAL ENTRANCES INCIDENTAL SURFACE NON-MILLED HMA
2314	1079+82	1099+03	46280	0.050	WEST FRONTAGE NON-MILLED HMA
1157	1079+82	1099+03	46280	0.025	WEST FRONTAGE BINDER
70	1098+58	1099+03	1395	0.050	WEST FRONTAGE AND BLACKHAWK RD BUTT JOINT
35	1098+58	1099+03	1395	0.025	WEST FRONTAGE AND BLACKHAWK RD BINDER
2604	1101+08	1123+80	52086	0.050	WEST FRONTAGE NON-MILLED HMA
1302	1101+08	1123+80	52086	0.025	WEST FRONTAGE BINDER
63	1101+08	1101+53	1260	0.050	WEST FRONTAGE AND BLACKHAWK RD BUTT JOINT
32	1101+08	1101+53	1260	0.025	WEST FRONTAGE AND BLACKHAWK RD BINDER
107	1123+80	1124+69	2133	0.050	WEST FRONTAGE OVER STRUCTURE PCC
53	1123+80	1124+69	2133	0.025	WEST FRONTAGE OVER STRUCTURE BINDER
3044	1124+69	1151+87	60877	0.050	WEST FRONTAGE NON-MILLED HMA
1522	1124+69	1151+87	60877	0.025	WEST FRONTAGE BINDER
56	1151+42	1151+87	1125	0.050	WEST FRONTAGE AND SAMUELSON RD BUTT JOINT
28	1151+42	1151+87	1125	0.025	WEST FRONTAGE AND SAMUELSON RD BINDER
1010	1000+06	991+37	20198	0.050	WEST FRONTAGE NON-MILLED HMA
505	1000+06	991+37	20198	0.025	WEST FRONTAGE BINDER
88	1000+06	999+61	1755	0.050	WEST FRONTAGE AND SAMUELSON RD BUTT JOINT
44	1000+06	999+61	1755	0.025	WEST FRONTAGE AND SAMUELSON RD BINDER
50	991+37	991+82	990	0.050	WEST FRONTAGE NON-MILLED HMA
25	991+37	991+82	990	0.025	WEST FRONTAGE BINDER
1990	985+75	970+53	39796	0.050	WEST FRONTAGE NON-MILLED HMA
995	985+75	970+53	39796	0.025	WEST FRONTAGE BINDER
143	985+02	985+75	2853	0.050	WEST FRONTAGE AND AIRPORT DR BUTT JOINT
71	985+02	985+75	2853	0.025	WEST FRONTAGE AND AIRPORT DR BINDER
25	970+75	970+53	504	0.050	WEST FRONTAGE AND AIRPORT DR BUTT JOINT
13	970+75	970+53	504	0.025	WEST FRONTAGE AND AIRPORT DR BINDER
	EAST FRONTAGE ROAD				
2094	2086+56	1973+46	41888	0.050	EAST FRONTAGE COMMERCIAL ENTRANCES INCIDENTAL SURFACE NON-MILLED HMA
41	2085+50	2085+98	828	0.050	EAST FRONTAGE RD BUTT JOINT
21	2085+50	2085+98	828	0.025	EAST FRONTAGE ROAD BINDER
1365	2085+50	2098+32	27299	0.050	EAST FRONTAGE NON-MILLED HMA
682	2085+50	2098+32	27299	0.025	EAST FRONTAGE BINDER
50	2097+87	2098+32	990	0.050	EAST FRONTAGE RD AND BLACKHAWK RD BUTT JOINT
25	2097+87	2098+32	990	0.025	EAST FRONTAGE RD AND BLACKHAWK RD BINDER
2566	2101+12	2124+03	51318	0.050	EAST FRONTAGE NON-MILLED HMA
1283	2101+12	2124+03	51318	0.025	EAST FRONTAGE BINDER
63	2101+12	2101+57	1260	0.050	EAST FRONTAGE ROAD AND BLACKHAWK RD BUTT JOINT
32	2101+12	2101+57	1260	0.025	EAST FRONTAGE ROAD AND BLACKHAWK RD BINDER
99	2124+03	2124+91	1989	0.050	EAST FRONTAGE OVER STRUCTURE PCC
50	2124+03	2124+91	1989	0.025	EAST FRONTAGE OVER STRUCTURE BINDER
3139	2124+91	2152+17	62788	0.050	EAST FRONTAGE NON-MILLED HMA
1570	2124+91	2152+17	62788	0.025	EAST FRONTAGE BINDER
108	2151+17	2151+72	2160	0.050	EAST FRONTAGE AND SAMUELSON RD BUTT JOINT
54	2151+17	2151+72	2160	0.025	EAST FRONTAGE AND SAMUELSON RD BINDER
3960	1999+35	1968+03	79207	0.050	EAST FRONTAGE NON-MILLED HMA
1980	1999+35	1968+03	79207	0.025	EAST FRONTAGE BINDER
52	1999+35	1998+90	1035	0.050	EAST FRONTAGE AND SAMUELSON RD BUTT JOINT
26	1999+35	1998+90	1035	0.025	EAST FRONTAGE AND SAMUELSON RD BINDER
70	1981+53	1982+80	1404	0.050	EAST FRONTAGE ROAD AND ROSS LANE BUTT JOINT
35	1981+53	1982+80	1404	0.025	EAST FRONTAGE ROAD AND ROSS LANE BINDER
50	1968+03	1968+48	990	0.050	EAST FRONTAGE ROAD BUTT JOINT
25	1968+03	1968+48	990	0.025	EAST FRONTAGE ROAD BINDER
	EAST AND WEST FRONTAGE ROADS				
701	VARIOUS		28026	0.025	CLASS D PATCHES, TYPE II-BINDER
88	VARIOUS		3503	0.025	CLASS D PATCHES, TYPE III-BINDER
88	VARIOUS		3503	0.025	CLASS D PATCHES, TYPE IV-BINDER
	IL 251 JOINT TRIMMING				
128	153+66	256+27	5131	0.025	FULL LENGTH EDGELINES
8	248+91	254+98	304	0.025	SB RAMP INSIDE EDGELINE
2	248+86	250+31	73	0.025	SB RAMP OUTSIDE EDGELINE
3	253+52	256+27	138	0.025	SB RAMP OUTSIDE EDGELINE
8	250+07	256+27	310	0.025	NB RAMP INSIDE EDGELINE
2	250+04	251+53	75	0.025	NB RAMP OUTSIDE EDGELINE
1	255+55	256+27	36	0.025	NB RAMP OUTSIDE EDGELINE
109,677	**TOTAL**				

PLAN / PROFILE — SURVEYED, PLOTTED, CHECKED, ALIGNMENT CHECKED, BM. NOTED, RT. OF WAY CHECKED, STRUCTURE NOTATNS CHKD, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

FILE NAME = D264070-sht-Schedules_300-400series_001.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC		REVISED -
DRAWN - DJC		REVISED -
CHECKED - DMS		REVISED -
DATE - 12/14/2018		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SHEET NO. 3 OF 12 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	24
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

40600627 LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N50

TON	STA.	STA	SQ FT	SQ YD	REMARKS
	FRONTAGE ROADS				
216	1079+82	1098+58	46280	5142	SB FRONTAGE
128	2085+98	2097+87	27299	3033	NB FRONTAGE
244	1101+53	1123+80	52086	5787	SB FRONTAGE
240	2101+57	2124+03	51318	5702	NB FRONTAGE
10	1123+80	1124+69	2133	237	SB FRONTAGE OVER STRUCTURE
10	2124+03	2124+91	1989	221	NB FRONTAGE OVER STRUCTURE
285	1124+69	1151+42	60877	6764	SB FRONTAGE
294	2124+91	2151+72	62788	6976	NB FRONTAGE
368	1998+90	1968+48	78850	8761	NB FRONTAGE
95	999+61	991+82	20198	2244	SB FRONTAGE
179	985+02	972+75	38209	4245	SB FRONTAGE

2,069 TOTAL

40600982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

SQ YD	STA.	STA	OFFSET	REMARKS	LENGTH	WIDTH
	W. FRONTAGE RD.					
155	1098+58	1099+03	LT	W. FRNT. RD.	45	31
140	1101+08	1101+53	LT	W. FRNT. RD.	45	28
125	1151+42	1151+87	LT	W. FRNT. RD.	45	25
195	999+61	1000+06	LT	W. FRNT. RD.	45	39
110	991+37	991+82	LT	W. FRNT. RD.	45	22
317	985+02	985+75	LT	W. FRNT. RD.	62	46
56	970+75	970+53	LT	W. FRNT. RD.	22	23
	E. FRONTAGE RD.					
92	2085+50	2085+98	RT	E. FRNT. RD.	46	18
110	2097+87	2098+32	RT	E. FRNT. RD.	45	22
140	2101+12	2101+57	RT	E. FRNT. RD.	45	28
240	2151+72	2151+17	RT	E. FRNT. RD.	45	48
115	1998+90	199+35	RT	E. FRNT. RD.	45	23
110	1968+48	1968+03	RT	E. FRNT. RD.	45	22
156	1981+53	1982+30	RT	ROSS LN	40	35
	IL 251					
350	147+14	148+05	RT	LEONARD RD	45	70
508	147+23	148+29	LT	LEONARD RD	61	75

2,919 TOTAL

40600990 TEMPORARY RAMP

SQ YD	STA.	STA	OFFSET	REMARKS	LENGTH	WIDTH
	W. FRONTAGE RD.					
50	1099+03	1099+18	LT	W. FRNT. RD.	15	30
55	1100+93	1101+08	LT	W. FRNT. RD.	15	33
43	1151+87	1152+02	LT	W. FRNT. RD.	15	26
73	1999+21	1999+36	LT	W. FRNT. RD.	15	44
	E. FRONTAGE RD.					
37	2098+32	2098+47	RT	E. FRNT. RD.	15	22
47	2100+97	2101+12	RT	E. FRNT. RD.	15	28
87	2152+20	2152+35	RT	E. FRNT. RD.	15	52
38	1000+20	1000+05	RT	E. FRNT. RD.	15	23
	IL 251					
57	153+65	153+80	RT	NB IL 251	15	34
58	158+12	158+27	LT	SB IL 251	15	35
40	239+29	239+44	RT	NB IL 251 RAMP	15	24
47	240+95	241+10	LT	SB IL 251 RAMP	15	28
27	249+89	250+04	LT	SB IL 251 RAMP	15	16
27	250+06	250+21	RT	NB IL 251 RAMP	15	16
27	254+84	254+99	LT	SB IL 251 RAMP	15	16
30	256+10	256+25	RT	NB IL 251 RAMP	15	18
43	255+12	256+27	LT	NB IL 251	15	26
55	255+12	256+27	RT	SB IL 251	15	33
	BLACKHAWK RD					
67	602+70	602+85	LT	BLACKHAWK RD	15	40
60	597+58	597+73	RT	BLACKHAWK RD	15	36
	SAMUELSON RD					
75	497+98	498+13	LT	SAMUELSON RD	15	45
70	502+34	502+49	RT	SAMUELSON RD	15	42

40600990 TEMPORARY RAMP (CONTINUED)

SQ YD	STA.	STA	OFFSET	REMARKS	LENGTH	WIDTH
	AIRPORT DR					
452	3001+63	3001+78	RT	AIRPORT DR	15	271
118	2999+51	2999+66	LT	AIRPORT DR	15	71
90	2999+51	2999+66	LT	AIRPORT DR	15	54
117	2999+49	2999+64	LT	AIRPORT DR	15	70

1,888 TOTAL

40603085 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70

TON	STA.	STA	SQ FT	SQ YD	REMARKS
	IL 251				
3823	153+66	184+78	273058	30340	NB/SB IL 251
56	184+78	185+64	4007	445	NB/SB IL 251 OVER STRUCTURE
8890	185+64	256+27	634970	70552	NB/SB IL 251

12,768 TOTAL

40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

TON	STA.	STA	SQ FT	SQ YD	REMARKS
	IL 251				
41	153+66	160+27	4409	490	NB/SB INSIDE SHOULDER
41	153+66	160+67	4366	485	NB OUTSIDE SHOULDER
16	158+12	160+54	1760	196	SB OUTSIDE SHOULDER
172	161+27	184+78	18435	2048	NB OUTSIDE SHOULDER
160	161+31	184+73	17175	1908	SB OUTSIDE SHOULDER
122	161+64	177+78	13108	1456	NB/SB INSIDE SHOULDER
25	182+86	186+66	2663	296	SB INSIDE SHOULDER
7	182+86	184+78	778	86	NB INSIDE SHOULDER
6	184+73	185+64	684	76	SB OUTSIDE SHOULDER
3	184+78	185+69	324	36	NB INSIDE SHOULDER
6	184+78	185+69	684	76	NB OUTSIDE SHOULDER
195	185+64	213+36	20855	2317	SB OUTSIDE SHOULDER
12	185+69	189+06	1303	145	NB INSIDE SHOULDER
182	185+69	213+34	19511	2168	NB OUTSIDE SHOULDER
9	186+66	189+06	949	105	SB INSIDE SHOULDER
63	194+14	211+36	6703	745	NB INSIDE SHOULDER
66	194+14	212+83	7106	790	SB INSIDE SHOULDER
111	215+13	227+71	11891	1321	NB OUTSIDE SHOULDER
78	215+18	226+70	8383	931	SB OUTSIDE SHOULDER
47	215+68	227+16	4987	554	NB INSIDE SHOULDER
40	217+09	226+94	4256	473	SB INSIDE SHOULDER
76	228+48	239+43	8093	899	NB OUTSIDE SHOULDER
105	228+82	256+27	11300	1256	NB INSIDE SHOULDER
64	229+07	241+11	6872	764	SB OUTSIDE SHOULDER
92	230+13	256+27	9870	1097	SB INSIDE SHOULDER
88	239+44	251+53	9443	1049	NB OUTSIDE SHOULDER
63	241+24	250+31	6739	749	SB OUTSIDE SHOULDER
45	248+91	254+98	4819	535	SB OUTSIDE SHOULDER
48	250+07	256+22	5100	567	NB OUTSIDE SHOULDER
18	253+54	256+27	1976	220	SB OUTSIDE SHOULDER
9	255+53	256+27	929	103	NB OUTSIDE SHOULDER
	FRONTAGE ROADS				
432	1079+82	1099+03	46280	5142	SB FRONTAGE
255	2085+50	2098+32	27299	3033	NB FRONTAGE
486	1101+08	1123+80	52086	5787	SB FRONTAGE
479	2101+12	2124+03	51318	5702	NB FRONTAGE
10	1123+80	1124+69	2133	237	SB FRONTAGE OVER STRUCTURE
10	2124+03	2124+91	1989	221	NB FRONTAGE OVER STRUCTURE
568	1124+69	1151+87	60877	6764	SB FRONTAGE
586	2124+91	2152+17	62788	6976	NB FRONTAGE
739	1999+35	1968+03	79207	8801	NB FRONTAGE
189	1000+06	991+37	20198	2244	SB FRONTAGE
371	985+75	970+53	39796	4422	SB FRONTAGE

6,136 TOTAL

40603390 HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N70

TON	STA.	STA	SQ FT	SQ YD	REMARKS
	IL 251				
2176	153+66	184+78	212340	23593	NB/SB IL 251
41	184+78	185+64	4007	445	NB/SB IL 251 OVER STRUCTURE
4956	185+64	256+27	483507	53723	NB/SB IL 251
	IL 251 JOINT TRIMMING				
53	153+66	256+27	5131	570	6" FOR JOINT TRIMMING
4	248+91	254+98	304	34	SB RAMP INSIDE EDGELINE
1	248+86	250+31	73	8	SB RAMP OUTSIDE EDGELINE
2	253+52	256+27	138	15	SB RAMP OUTSIDE EDGELINE
4	250+07	256+27	310	34	NB RAMP INSIDE EDGELINE
1	250+04	251+53	75	8	NB RAMP OUTSIDE EDGELINE
1	255+55	256+27	36	4	NB RAMP OUTSIDE EDGELINE

7,240 TOTAL

40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING

TON	STA.	OFFSET	REMARKS
	W. FRONT. RD.		
4.5	1079+20	LT	COMMERCIAL ENTRANCE
6.8	1080+72	LT	COMMERCIAL ENTRANCE
9.3	1081+78	LT	COMMERCIAL ENTRANCE
5.9	1085+05	LT	COMMERCIAL ENTRANCE
6.6	1086+50	LT	COMMERCIAL ENTRANCE
13.0	1087+10	LT	COMMERCIAL ENTRANCE
8.9	1088+09	LT	COMMERCIAL ENTRANCE
9.5	1090+36	LT	COMMERCIAL ENTRANCE
10.5	1091+78	LT	COMMERCIAL ENTRANCE
35.7	1095+78	LT	COMMERCIAL ENTRANCE
10.2	1097+16	LT	COMMERCIAL ENTRANCE
15.3	1098+72	LT	COMMERCIAL ENTRANCE
25.3	1105+19	LT	COMMERCIAL ENTRANCE
31.9	1113+49	LT	COMMERCIAL ENTRANCE
22.2	1116+58	LT	COMMERCIAL ENTRANCE
26.0	1118+23	LT	COMMERCIAL ENTRANCE
34.8	1123+40	LT	MILFORD AVENUE
28.7	1124+94	LT	COMMERCIAL ENTRANCE
17.6	1127+29	LT	COMMERCIAL ENTRANCE
36.0	1130+20	LT	COMMERCIAL ENTRANCE
24.1	1139+20	LT	COMMERCIAL ENTRANCE
15.9	1145+78	LT	COMMERCIAL ENTRANCE
35.3	1150+65	LT	COMMERCIAL ENTRANCE
27.5	1151+99	LT	COMMERCIAL ENTRANCE
16.5	999+17	LT	COMMERCIAL ENTRANCE
14.9	996+77	LT	COMMERCIAL ENTRANCE
51.3	993+81	LT	COMMERCIAL ENTRANCE
29.8	992+08	LT	COMMERCIAL ENTRANCE
15.3	991+31	LT	COMMERCIAL ENTRANCE
18.8	981+35	LT	COMMERCIAL ENTRANCE
52.9	978+10	LT	COMMERCIAL ENTRANCE
19.5	976+16	LT	COMMERCIAL ENTRANCE
16.3	973+95	LT	COMMERCIAL ENTRANCE
20.3	973+28	LT	COMMERCIAL ENTRANCE
14.1	972+46	LT	COMMERCIAL ENTRANCE
	E. FRONT. RD.		
12.2	2086+56	RT	COMMERCIAL ENTRANCE
11.6	2088+06	RT	COMMERCIAL ENTRANCE
14.5	2089+94	RT	COMMERCIAL ENTRANCE
14.3	2097+99	RT	COMMERCIAL ENTRANCE
27.6	2106+51	RT	COMMERCIAL ENTRANCE
55.0	2114+45	RT	COMMERCIAL ENTRANCE
28.5	2119+24	RT	COMMERCIAL ENTRANCE
21.7	2123+54	RT	COMMERCIAL ENTRANCE
27.3	2127+45	RT	COMMERCIAL ENTRANCE
7.9	2130+47	RT	COMMERCIAL ENTRANCE
19.8	2134+44	RT	COMMERCIAL ENTRANCE
24.5	2136+47	RT	COMMERCIAL ENTRANCE
8.7	2139+67	RT	COMMERCIAL ENTRANCE
25.7	2142+04	RT	COMMERCIAL ENTRANCE
49.5	2148+53	RT	COMMERCIAL ENTRANCE

PLAN — NOTE BOOK NO. ____ — SURVEYED — PLOTTED — ALIGNMENT CHECKED — RT. OF WAY CHECKED — CADD FILE NAME ____ — BY — DATE

PROFILE — NOTE BOOK NO. ____ — SURVEYED — PLOTTED — GRADES CHECKED — B.M. NOTED — STRUCTURE NOTATIONS CHKD — BY — DATE

FILE NAME = D264D70-sht-Schedules_300-400series_002.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SHEET NO. 4 OF 12 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	25
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING CONT'D

TON	STA.	OFFSET	REMARKS
19.2	2150+66	RT	COMMERCIAL ENTRANCE
21.1	2152+14	RT	COMMERCIAL ENTRANCE
14.1	1995+76	RT	COMMERCIAL ENTRANCE
25.5	1994+54	RT	COMMERCIAL ENTRANCE
19.4	1991+84	RT	COMMERCIAL ENTRANCE
17.1	1989+95	RT	COMMERCIAL ENTRANCE
22.4	1987+77	RT	COMMERCIAL ENTRANCE
11.1	1979+06	RT	COMMERCIAL ENTRANCE
35.6	1977+88	RT	COMMERCIAL ENTRANCE
29.3	1976+65	RT	COMMERCIAL ENTRANCE
26.1	1974+44	RT	COMMERCIAL ENTRANCE
18.7	1973+46	RT	COMMERCIAL ENTRANCE

1339.6 TOTAL
1340 ROUNDED

42000060 WELDED WIRE REINFORCEMENT

SQ YD	STA	STA	LENGTH	WIDTH	AREA	REMARKS
	IL 251		FT	FT	SQ FT	
237	1123+80	1124+69	89	24	2136	W. FRONTAGE RD
223	184+73	185+64	91.1	22	2004.2	SB IL 251
222	184+78	185+69	90.9	22	1999.8	NB IL 251
221	2124+03	2124+92	89	23	2047	E.FRONTAGE RD
	FULL LENGTH IL 251					
619	153+66	256+27			695844	TYPE III PATCH
619	153+66	256+27			695844	TYPE IV PATCH

2140 TOTAL

42000501 PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)

SQ YD	STA.	STA	REMARKS
	IL 251		
1251	177+78	182+86	CROSSOVER
1251	189+06	194+14	CROSSOVER

2,502 TOTAL

44000164 HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"

SQ YD	STA.	STA	REMARKS
	IL 251		
30264	153+66	184+78	NB/SB IL 251
70508	185+64	256+27	NB/SB IL 251

100,772 TOTAL

44000500 COMBINATION CURB AND GUTTER REMOVAL

FOOT	STA	STA	OFF	REMARKS
	W. FRONTAGE RD.			
27	1124+54	1124+66	LT	
10	984+04	984+14	RT	
	IL 251			
10	213+32	213+39	CT	NB IL 251 LEFT TURN MEDIAN
10	214+14	214+20	RT	SB IL 251 LEFT TURN MEDIAN
10	227+47	227+53	CT	NB IL 251 LEFT TURN MEDIAN

67 TOTAL

44002215 HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3 3/4"

SQ YD	STA.	STA	REMARKS
	IL 251		
223	184+73	185+64	SB IL 251
222	184+78	185+69	NB IL 251
	FULL LENGTH IL 251		
3866	153+66	256+27	ESTIMATED

4,311 TOTAL

44004250 PAVED SHOULDER REMOVAL

SQ YD	STA.	STA	REMARKS
	IL 251		
210	182+86	186+66	SB INSIDE SHOULDER
97	184+73	185+64	SB OUTSIDE SHOULDER
60	184+78	185+69	NB INSIDE SHOULDER
88	184+78	185+69	NB OUTSIDE SHOULDER

454 TOTAL

44200944 CLASS B PATCHES, TYPE IV, 8 INCH

SQ YD	STA.	STA.	OFFSET	REMARKS
	IL 251			
237	1123+80	1124+69	LT	W. FRONTAGE ROAD
221	2124+03	2124+91	RT	E. FRONTAGE ROAD

458 TOTAL

44201007 CLASS B PATCHES, TYPE II, 13 INCH

SQ YD	STA.	STA	REMARKS
	FULL LENGTH IL 251		
3093	153+66	256+27	ESTIMATED

3,093 TOTAL

44201011 CLASS B PATCHES, TYPE III, 13 INCH

SQ YD	STA.	STA	REMARKS
	FULL LENGTH IL 251		
387	153+66	256+27	ESTIMATED

387 TOTAL

44201013 CLASS B PATCHES, TYPE IV, 13 INCH

SQ YD	STA.	STA	REMARKS
	IL 251		
223	184+73	185+64	SB IL 251
222	184+78	185+69	NB IL 251
	FULL LENGTH IL 251		
387	153+66	256+27	ESTIMATED

832 TOTAL

44201299 DOWEL BARS 1 1/2"

EACH	STA	STA	Length	REMARKS
24	184+73	185+64	91.1	SB IL 251
24	184+78	185+69	90.9	NB IL 251
	FULL LENGTH IL 251			
4968	153+66	256+27		TYPE II PATCH
384	153+66	256+27		TYPE III PATCH
288	153+66	256+27		TYPE IV PATCH

5688 TOTAL

44201741 CLASS D PATCHES, TYPE II, 8 INCH

SQ YD	LOCATION	SQ FT	TON	REMARKS
779	EAST AND WEST FRONTAGE ROADS	7006	349	ESTIMATED

779 TOTAL

44201745 CLASS D PATCHES, TYPE III, 8 INCH

SQ YD	LOCATION	SQ FT	TON	REMARKS
98	EAST AND WEST FRONTAGE ROADS	876	44	ESTIMATED

98 TOTAL

44201747 CLASS D PATCHES, TYPE IV, 8 INCH

SQ YD	LOCATION	SQ FT	TON	REMARKS
98	EAST AND WEST FRONTAGE ROADS	876	44	ESTIMATED

98 TOTAL

44213200 SAW CUTS

FEET	STA.	STA	LENGTH 1	LENGTH 2
	W. FRONTAGE ROAD			
48	1124+80	1125+69	24	24
	E. FRONTAGE ROAD			
46	2124+03	2124+92	23	23
	IL 251			
69	184+73	185+64	34	35
68	184+78	185+69	34	34
	FULL LENGTH IL 251			
7038	153+66	256+27	TYPE II PATCH ESTIMATED	
672	153+66	256+27	TYPE III PATCH ESTIMATED	
588	153+66	256+27	TYPE IV PATCH ESTIMATED	

8,529 TOTAL

44213204 TIE BARS 3/4"

EACH	STA	STA	Length	REMARKS
46	1123+80	1124+69	89	W. FRONTAGE RD
47	184+73	185+64	91.1	SB IL 251
47	184+78	185+69	90.9	NB IL 251
46	2124+03	2124+92	89	E. FRONTAGE RD
	FULL LENGTH IL 251			
180	153+66	256+27		TYPE IV PATCH

366 TOTAL

44300100 AREA REFLECTIVE CRACK CONTROL TREATMENT

SQ YD	STA.	STA	SQ FT	REMARKS
	FRONTAGE ROADS			
5142.2	1079+82	1099+03	46280	SB FRONTAGE
3033.2	2085+50	2093+32	27299	NB FRONTAGE
5787.3	1101+08	1123+80	52086	SB FRONTAGE
5702.0	2101+12	2124+03	51318	NB FRONTAGE
6764.1	1124+69	1151+87	60877	SB FRONTAGE
6976.4	2124+91	2152+17	62788	NB FRONTAGE
8800.7	1999+35	1968+03	79206	NB FRONTAGE
2244.2	1000+06	991+37	20198	SB FRONTAGE
4421.8	985+75	970+53	39796	SB FRONTAGE

48,871.9 TOTAL
48,872.0 ROUNDED

48101498 AGGREGATE SHOULDER, TYPE B 4"

TON	STA.	STA	REMARKS
356	1123+80	1124+69	W. FRONTAGE ROAD
364	184+73	185+64	SB IL 251
364	184+78	185+69	NB IL 251
356	2124+03	2124+91	E. FRONTAGE ROAD

1,440 TOTAL

48102100 AGGREGATE WEDGE SHOULDER, TYPE B

TON	STA.	STA	OFFSET	SQ FT	SQ YD	REMARKS
1.62	1080+10	1080+49	LT	72.75	8.08	West side of west frontage road
2.65	1080+94	1081+56	LT	118.88	13.21	West side of west frontage road
12.76	1082+00	1084+88	LT	573.80	63.76	West side of west frontage road
4.69	1085+23	1086+31	LT	210.88	23.43	West side of west frontage road
0.50	1086+70	1086+83	LT	22.39	2.49	West side of west frontage road
6.72	1087+36	1088+89	LT	302.23	33.58	West side of west frontage road
3.45	1089+27	1090+06	LT	154.96	17.22	West side of west frontage road
3.57	1090+61	1091+45	LT	160.48	17.83	West side of west frontage road
16.13	1092+08	1095+40	LT	725.64	80.63	West side of west frontage road
3.72	1096+16	1097+02	LT	167.10	18.57	West side of west frontage road
4.27	1097+37	1098+46	LT	191.91	21.32	West side of west frontage road
4.78	1098+97	1099+81	LT	215.00	23.89	West side of west frontage road
21.47	1100+20	1104+89	LT	966.12	107.35	West side of west frontage road
33.56	1105+81	1113+07	LT	1509.86	167.76	West side of west frontage road
10.25	1113+93	1116+28	LT	461.20	51.24	West side of west frontage road
4.66	1116+89	1117+99	LT	209.40	23.27	West side of west frontage road
21.92	1118+48	1123+19	LT	986.08	109.56	West side of west frontage road
3.07	1123+55	1124+00	LT	137.80	15.31	West side of west frontage road
2.79	1124+49	1124+69	LT	125.18	13.91	West side of west frontage road
11.78	1125+03	1127+15	LT	529.99	58.89	West side of west frontage road
10.99	1127+40	1129+65	LT	494.44	54.94	West side of west frontage road
35.23	1130+82	1138+82	LT	1585.11	176.12	West side of west frontage road
26.86	1139+61	1145+52	LT	1208.72	134.30	West side of west frontage road
18.32	1146+03	1150+17	LT	824.23	91.58	West side of west frontage road
1.20	1151+14	1151+43	LT	53.70	5.97	West side of west frontage road
4.52	999+50	1000+54	RT	203.18	22.58	West side of west frontage road
7.51	997+04	998+82	RT	337.60	37.51	West side of west frontage road
8.59	994+51	996+50	RT	386.49	42.94	West side of west frontage road
2.87	992+47	993+16	RT	128.92	14.32	West side of west frontage road
9.49	978+84	981+14	RT	426.75	47.42	West side of west frontage road
4.24	976+46	977+40	RT	190.75	21.19	West side of west frontage road
7.18	974+26	975+86	RT	322.81	35.87	West side of west frontage road
7.40	970+53	972+31	RT	332.91	36.99	West side of west frontage road
29.07	1079+73	1086+30	RT	1307.98	145.33	East side of west frontage road
52.79	1087+16	1099+02	RT	2375.33	263.93	East side of west frontage road
99.23	1102+06	1123+80	RT	4465.23	496.14	East side of west frontage road
119.72	1124+69	1152+10	RT	5387.04	598.56	East side of west frontage road
38.65	991+37	1000+01	LT	1739.14	193.24	East side of west frontage road
50.22	970+53	981+68	LT	2259.64	251.07	East side of west frontage road
2.83	2085+50	2086+15	LT	127.29	14.14	West side of east frontage road
49.66	2086+91	2098+07	LT	2234.59	248.29	West side of east frontage road
100.06	2101+13	2123+03	LT	4502.72	500.30	West side of east frontage road
119.85	2124+91	2151+14	LT	5393.00	599.22	West side of east frontage road
51.84	1986+70	1999+81	LT	2332.80	259.20	West side of east frontage road
75.89	1968+03	1984+97	RT	3414.73	379.41	West side of east frontage road
3.93	2085+50	2086+41	RT	176.83	19.65	East side of east frontage road
4.06	2086+75	2087+69	RT	182.38	20.26	East side of east frontage road
5.64	2088+22	2089+53	RT	253.71	28.19	East side of east frontage road
32.41	2090+18	2097+54	RT	1458.35	162.04	East side of east frontage road
7.63	2098+30	2099+90	RT	343.09	38.12	East side of east frontage road
27.83	2100+11	2106+23	RT	1252.05	139.12	East side of east frontage road
30.31	2106+82	2113+70	RT	1363.59	151.51	East side of east frontage road
17.17	2115+03	2118+94	RT	772.41	85.82	East side of east frontage road
16.73	2119+65	2123+46	RT	752.66	83.63	East side of east frontage road
3.31	2123+74	2124+03	RT	148.62	16.51	East side of east frontage road
8.97	2124+91	2126+05	RT	403.65	44.85	East side of east frontage road
10.83	2127+85	2130+32	RT	487.26	54.14	East side of east frontage road
23.85	2130+63	2134+24	RT	1072.85	119.21	East side of east frontage road
6.44	2134+66	2136+15	RT	289.84	32.20	East side of east frontage road
14.41	2136+78	2139+57	RT	648.28	72.03	East side of east frontage road
7.81	2139+79	2141+69	RT	351.35	39.04	East side of east frontage road
24.19	2142+39	2147+89	RT	1088.23	120.91	East side of east frontage road
6.37	2148+98	2150+38	RT	286.37	31.82	East side of east frontage road
3.82	2150+96	2151+85	RT	171.85	19.09	East side of east frontage road
13.81	1996+10	1999+28	LT	621.27	69.03	East side of east frontage road

PLAN | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE

PROFILE | SURVEYED | PLOTTED | DRAWING CHECKED | BM. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO. | BY | DATE

FILE NAME = D264D70-sht-Schedules_300-400series_003.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SHEET NO. 5 OF 12 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	26
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

48102100 AGGREGATE WEDGE SHOULDER, TYPE B (CONT.)

TON	STA.	STA	OFFSET	SQ FT	SQ YD	REMARKS
2.82	1994+86	1995+83	LT	126.80	14.09	East side of east frontage road
7.84	1992+16	1994+00	LT	352.56	39.17	East side of east frontage road
5.20	1990+27	1991+53	LT	233.96	26.00	East side of east frontage road
4.64	1988+56	1989+64	LT	208.80	23.20	East side of east frontage road
7.37	1979+26	1980+97	LT	331.50	36.83	East side of east frontage road
2.68	1978+29	1978+93	LT	120.25	13.36	East side of east frontage road
1.57	1977+06	1977+50	LT	70.25	7.81	East side of east frontage road
6.12	1974+83	1976+29	LT	275.12	30.57	East side of east frontage road
1.42	1973+80	1974+14	LT	63.83	7.09	East side of east frontage road
11.40	1970+56	1973+12	LT	512.81	56.98	East side of east frontage road
8.91	1968+03	1970+03	LT	400.91	44.55	East side of east frontage road
3.63	158+11	158+93	LT	163.29	18.14	West side of IL 251 SB
100.21	162+18	184+73	LT	4509.38	501.04	West side of IL 251 SB
76.17	185+64	212+78	LT	3427.27	380.81	West side of IL 251 SB
53.21	214+75	226+70	LT	2394.23	266.03	West side of IL 251 SB
53.53	229+07	241+10	LT	2408.46	267.61	West side of IL 251 SB
23.84	243+43	248+84	LT	1072.69	119.19	West side of IL 251 SB
28.12	248+94	254+96	LT	1265.38	140.60	West side of IL 251 SB
5.45	255+01	256+27	LT	245.20	27.24	West side of IL 251 SB
6.03	158+12	159+46	LT	271.24	30.14	East side of IL 251 SB
69.45	162+16	177+78	RT/LT	3125.27	347.25	East side of IL 251 SB
8.36	182+86	184+73	LT	375.85	41.76	East side of IL 251 SB
15.23	185+64	189+06	LT	685.02	76.11	East side of IL 251 SB
76.82	194+14	211+36	LT	3456.93	384.10	East side of IL 251 SB
42.84	216+09	225+72	RT/LT	1927.41	214.16	East side of IL 251 SB
114.88	230+43	256+27	LT	5169.41	574.38	East side of IL 251 SB
25.85	153+66	159+44	RT/LT	1163.14	129.24	West side of IL 251 NB
69.42	162+16	177+78	RT	3123.59	347.07	West side of IL 251 NB
8.56	182+86	184+78	RT	385.16	42.80	West side of IL 251 NB
14.99	185+69	189+06	RT	674.45	74.94	West side of IL 251 NB
76.97	194+14	211+36	RT/LT	3463.67	384.85	West side of IL 251 NB
47.35	214+68	225+72	RT/LT	2130.79	236.75	West side of IL 251 NB
114.88	230+43	256+27	RT	5169.41	574.38	West side of IL 251 NB
26.60	153+66	159+64	RT	1196.96	133.00	East side of IL 251 NB
100.18	162+24	184+78	RT	4508.07	500.90	East side of IL 251 NB
119.76	185+69	212+63	RT	5389.01	598.78	East side of IL 251 NB
53.33	215+04	227+05	RT	2399.46	266.61	East side of IL 251 NB
556.47	229+23	239+43	RT	25040.80	2782.31	East side of IL 251 NB
38.09	241+13	250+04	RT	1713.71	190.41	East side of IL 251 NB
26.78	250+09	256+19	RT	1205.06	133.90	East side of IL 251 NB
11.86	598+31	599+47	RT	533.64	59.29	SW Corner of Blackhawk Intersection
13.00	598+32	599+42	LT	584.91	64.99	NW Corner of Blackhawk Intersection
7.26	498+52	499+40	RT	326.48	36.28	SW Corner of Samuelson Intersection
6.60	498+67	499+41	LT	296.85	32.98	NW Corner of Samuelson Intersection
14.26	600+58	601+85	RT	641.37	71.26	SE Corner of Blackhawk Intersection
10.70	600+58	602+00	LT	481.48	53.50	NE Corner of Blackhawk Intersection
6.49	500+59	501+34	RT	291.87	32.43	SE Corner of Samuelson Intersection
9.31	500+59	501+42	LT	418.91	46.55	NE Corner of Samuelson Intersection
6.49	3000+54	3001+39	RT	291.87	32.43	SE Corner of Airport Interesection
8.64	3000+67	3001+90	LT	388.80	43.20	NE Corner of Airport Intersection

3,490 **Subtotal**

175.00 Including additional 5% of total quantity for areas where adjacent shoulder is low

3,665 **TOTAL**

48203006 HOT-MIX ASPHALT SHOULDERS, 2 1/4"

SQ YD	STA.	STA	REMARKS
	IL 251		
490	153+66	160+27	NB/SB INSIDE SHOULDER
485	153+66	160+67	NB OUTSIDE SHOULDER
196	158+12	160+54	SB OUTSIDE SHOULDER
2048	161+27	184+78	NB OUTSIDE SHOULDER
1908	161+31	184+73	SB OUTSIDE SHOULDER
1456	161+64	177+78	NB/SB INSIDE SHOULDER
86	182+86	184+78	NB INSIDE SHOULDER
145	185+69	189+06	NB INSIDE SHOULDER
2317	185+64	213+36	SB OUTSIDE SHOULDER
2168	185+69	213+34	NB OUTSIDE SHOULDER
105	186+66	189+06	SB INSIDE SHOULDER
745	194+14	211+36	NB INSIDE SHOULDER
790	194+14	212+83	SB INSIDE SHOULDER
1321	215+13	227+71	NB OUTSIDE SHOULDER
931	215+18	226+70	SB OUTSIDE SHOULDER
554	215+68	227+16	NB INSIDE SHOULDER
473	217+09	226+94	SB INSIDE SHOULDER
899	228+48	239+43	NB OUTSIDE SHOULDER
1256	228+82	256+27	NB INSIDE SHOULDER
764	229+07	241+11	SB OUTSIDE SHOULDER
1097	230+43	256+27	SB INSIDE SHOULDER
1049	239+44	251+53	NB OUTSIDE SHOULDER
749	241+24	250+31	SB OUTSIDE SHOULDER
535	248+91	254+96	SB OUTSIDE SHOULDER
567	250+07	256+22	NB OUTSIDE SHOULDER
220	253+54	256+27	SB OUTSIDE SHOULDER
103	255+53	256+27	NB OUTSIDE SHOULDER

23,457 **TOTAL**

48203021 HOT-MIX ASPHALT SHOULDERS, 6"

SQ YD	STA.	SQ FT	REMARKS
	IL 251		
402.5	180+00	3623	CROSSOVER #1
402.5	191+50	3623	CROSSOVER #2

805 **TOTAL**

48203023 HOT-MIX ASPHALT SHOULDERS, 6 1/2"

SQ YD	STA.	STA	REMARKS
	IL 251		
296	182+86	186+66	SB IL 251 7' INSIDE SHOULDER
76	184+73	185+64	SB IL 251 8' OUTSIDE SHOULDER
36	184+78	185+69	NB IL 251 4' INSIDE SHOULDER
76	184+78	185+69	NB IL 251 8' OUTSIDE SHOULDER

484 **TOTAL**

PLAN — BY | DATE | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO.

PROFILE — BY | DATE | SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO.

FILE NAME = D264D70-sht-Schedules_300-400series_004.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SHEET NO. 6 OF 12 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	27
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

542A0235 PIPE CULVERTS, CLASS A, TYPE 1 30"

FOOT	PIPE RUN No.	STA	STA
	ROUTE 251		
63.0	210	2123+30	2123+92
63	**TOTAL**		

542D0229 PIPE CULVERTS, CLASS D, TYPE 1 24"

FOOT	PIPE RUN No.	STA	STA
	ROUTE 251		
79.0	200	1122+98	1123+75
21.0	204	184+68	184+89
20.0	205	185+40	185+60
9.0	206	184+87	184+96
16.0	207	185+46	185+62
19.0	208	184+83	185+02
20.0	209	185+53	185+73
184	**TOTAL**		

542D0241 PIPE CULVERTS, CLASS D, TYPE 1 36"

FOOT	PIPE RUN No.	STA	STA
	ROUTE 251		
55	201	1124+62	1125+18
41.0	202	1127+07	1127+47
41.0	203	1127+07	1127+47
137	**TOTAL**		

54246405 INLET BOX, STANDARD 542531

EACH	STRUCTURE NO.	STATION	OFFSET	
	IL 251			
1	108	184+68	76.3	LT
1	109	185+60	75.1	LT
1	112	184+84	76.2	RT
1	113	185+73	76.3	RT
4	**TOTAL**			

54260636 SLOPED METAL END SECTION WITH GRATE, STANDARD 542411, 36", 1:4

EACH	STRUCTURE NO.	STATION	OFFSET	
	W. FRONT. RD			
1	102	1124+61	60.0	LT
1	103	1125+19	44.0	LT
2	**TOTAL**			

54260724 SLOPED METAL END SECTION WITH GRATE, STANDARD 542411, 24", 1:6

EACH	STRUCTURE NO.	STATION	OFFSET	
	W. FRONT. RD.			
1	100	1122+98	41.0	LT
1	101	1123+75	55.0	LT
2	**TOTAL**			

54260736 SLOPED METAL END SECTION WITH GRATE, STANDARD 542411, 36", 1:6

EACH	STRUCTURE NO.	STATION	OFFSET	
	W. FRONT. RD			
1	104	1127+07	33.0	LT
1	105	1127+07	38.0	LT
1	106	1127+48	33.0	LT
1	107	1127+48	38.0	LT
4	**TOTAL**			

54261630 CONCRETE END SECTION, STANDARD 542001, 30", 1:6

EACH	STRUCTURE NO.	STATION	OFFSET	
	E. FRONT. RD.			
1	114	2123+30	53.0	RT
1	115	2123+92	63.0	RT
2	**TOTAL**			

60100060 CONCRETE HEADWALLS FOR PIPE DRAINS

EACH	STRUCTURE NO.	STATION	OFFSET	
	W. FRONT. RD			
1	10	1123+80	36.3	LT
1	11	1124+62	31.6	LT
	E. FRONT. RD			
1	12	2124+12	45.3	RT
1	13	2124+91	25.2	RT
4	**TOTAL**			

60108100 PIPE UNDERDRAINS 4" (SPECIAL)

FOOT	PIPE RUN No.	FROM STA	O/S	LT/RT	TO STA	O/S	LT/RT
	W. FRONTAGE RD.						
20.0	10	1123+80	16.3	LT	1123+80	36.3	LT
15.0	12	1124+62	16.6	LT	1124+62	31.6	LT
15.0	13	1123+80	14.6	RT	1123+80	29.5	RT
18.0	15	1124+69	14.4	RT	1124+77	30.9	RT
	ROUTE 251						
24.0	16	184+73	50.6	LT	184+67	74.5	LT
23.0	18	185+64	50.6	LT	185+64	73.2	LT
8.0	19	184+83	11.7	LT	184+83	3.9	LT
8.0	21	185+64	11.8	LT	185+66	4.1	LT
11.0	22	184+83	14.9	RT	184+83	4.1	RT
11.0	24	185+66	15.2	RT	185+66	3.9	RT
21.0	25	184+78	53.4	RT	184+78	74.3	RT
22.0	27	185+69	53.3	RT	185+75	74.4	RT
	E. FRONTAGE RD.						
19.0	28	2124+03	14.9	LT	2123+95	31.9	LT
17.0	30	2124+91	15.0	LT	2124+91	31.9	LT
30.0	31	2124+12	15.3	RT	2124+12	45.3	RT
10.0	33	2124+91	15.2	RT	2124+91	25.2	RT
272	**TOTAL**						

60108104 PIPE UNDERDRAINS, TYPE 1, 4"

FOOT	PIPE RUN No.	FROM STA	O/S		TO STA	O/S	
	W. FRONTAGE RD.						
82.0	11	1123+80	16.3	LT	1124+62	16.6	LT
89.0	14	1123+80	14.6	RT	1124+69	14.4	RT
	ROUTE 251						
91.0	17	184+73	50.6	LT	185+64	50.6	LT
80.0	20	184+83	11.7	LT	185+64	11.8	LT
81.0	23	184+83	14.9	RT	185+66	15.2	RT
82.0	26	184+78	53.4	RT	185+69	53.3	RT
	E. FRONTAGE RD.						
89.0	29	2124+03	14.9	LT	2124+91	15.0	LT
91.0	32	2124+12	15.3	RT	2124+91	15.2	RT
685	**TOTAL**						

60246605 MEDIAN INLET (604101)

EACH	STRUCTURE NO.	STATION	OFFSET	
	IL 251			
1	110	184+87	0.1	RT
1	111	185+62	0.1	LT
2	**TOTAL**			

60260100 INLETS TO BE ADJUSTED

EACH	STATION	OFFSET
	IL 251	
1	179+17	0' CTR
1	189+83	0' CTR
1	190+08	0' CTR
1	193+41	0' CTR
	E. FRONT. RD.	
1	1999+96	63' LT
1	1988+52	16' LT
1	1986+92	23' LT
1	1986+23	24' LT
1	1982+36	13' LT
1	1973+89	13' LT
	W. FRONT. RD.	
1	985+58	32' LT
1	985+82	22' RT
1	984+06	16' LT
1	984+09	16' RT
14	**TOTAL**	

60265700 VALVE VAULTS TO BE ADJUSTED

EACH	STATION	OFFSET
	E. FRONT. RD.	
1	1981+56	14' LT
	W. FRONT. RD.	
1	1129+33	42' LT
1	1129+45	41' LT
3	**TOTAL**	

60266600 VALVE BOXES TO BE ADJUSTED

EACH	STATION	OFFSET
	E. FRONT. RD.	
1	1981+62	8' LT
1	1999+91	52' LT
2	**TOTAL**	

60604400 COMBINATION CONCRETE CURB & GUTTER TYPE B-6.18

FOOT	STA	STA	OFFSET	REMARKS
	W. FRONT. RD.			
27	1124+56	1124+73	LT	COMMERCIAL ENTRANCE
27.0	**TOTAL**			

60605000 COMBINATION CONCRETE CURB & GUTTER TYPE B-6.24

FOOT	STA	STA	OFF	REMARKS
	W. FRONT. RD.			
10	984+04	984+14	CT	NB IL 251 LEFT TURN MEDIAN
	IL 251			
10	213+32	213+39	CT	NB IL 251 LEFT TURN MEDIAN
10	214+14	214+20	RT	SB IL 251 LEFT TURN MEDIAN
10	227+47	227+53	CT	NB IL 251 LEFT TURN MEDIAN
40.0	**TOTAL**			

63200310 GUARDRAIL REMOVAL

FOOT	STA	STA	OFF
	IL 251		
252	182+52	185+04	RT
176	183+28	185+04	RT
190	185+36	187+25	LT
252	185+36	187+88	LT
8	185+48	185+52	LT
280	223+90	226+70	LT
394	228+76	232+17	LT
400	228+84	232+17	LT
	W. FRONTAGE RD		
215	1123+13	1125+28	RT
119	1123+78	1124+78	LT
41	1125+03	1125+17	LT
41	1126+04	1126+17	LT
41	1126+39	1126+50	LT
	E. FRONTAGE RD		
204	2123+54	2125+56	LT
142	2123+79	2125+19	RT
2755	**TOTAL**		

63500105 DELINEATORS

EACH	LOC	STA	REMARKS
1	E FRONTAGE RD	2123+40	DRIVEWAY CULVERT
1	E FRONTAGE RD	2123+80	DRIVEWAY CULVERT
1	E FRONTAGE RD	2124+00	BOX CULVERT
1	W FRONTAGE RD	1127+55	DRIVEWAY CULVERT
1	W FRONTAGE RD	1127+00	DRIVEWAY CULVERT
1	W FRONTAGE RD	1125+20	DRIVEWAY CULVERT
1	W FRONTAGE RD	1124+70	DRIVEWAY CULVERT
1	W FRONTAGE RD	1124+60	BOX CULVERT
1	W FRONTAGE RD	1123+70	DRIVEWAY CULVERT
1	W FRONTAGE RD	1123+00	DRIVEWAY CULVERT
10	**TOTAL**		

63800920 MODULAR GLARE SCREEN SYSTEM, TEMPORARY

FOOT	STAGE	STA	STA
1,050	2	180+50	191+00
1,100	3	180+50	191+50
2,150	**TOTAL**		

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / CROSS SECT. CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY / DATE

FILE NAME = D2640?0-sht-Schedules_500-600series_001.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SHEET NO. 7 OF 12 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	28
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

70100410 TRAFFIC CONTROL AND PROTECTION, STANDARD 701416

EACH	STA	STA	STAGE	REMARKS
1	179+34	182+70	2	South Cross-Over
1	189+23	193+02	3	North Cross-Over
2	**TOTAL**			

70100420 TRAFFIC CONTROL AND PROTECTION, STANDARD 701411

EACH	STA	REMARKS
	NB IL 251	
1	239+43	NB IL 251 Ramp to EB US 20
1	250+07	EB US 20 Ramp to NB IL 251
1	256+22	NB IL 251 Ramp to WB US 20
	SB IL 251	
1	254+98	WB US 20 Ramp to SB IL 251
1	248+91	SB IL 251 Ramp to EB IL 251
1	241+10	EB US 20 Ramp to SB IL 251
6	**TOTAL**	

70300100 SHORT TERM PAVEMENT MARKING

FOOT	STA	STA	REMARKS
	EAST FRONTAGE ROAD		
972	147+96	244+57	4" YELLOW 4' SKIPS AT 40' CENTERS
720	147+96	244+57	12" WHITE STOP BARS (3 ROWS OF 4" WHITE)
360	147+96	244+57	4" WHITE SYMBOLS
	WEST FRONTAGE ROAD		
816	142+57	223+48	4" YELLOW 4' SKIPS AT 40' CENTERS
148	228+82	243+00	4" YELLOW 4' SKIPS AT 40' CENTERS
648	142+57	223+48	12" WHITE STOP BARS (3 ROWS OF 4" WHITE)
456	142+57	223+48	4" WHITE SYMBOLS
	NB IL 251		
1,032	153+66	256+25	4" WHITE 4' SKIPS AT 40' CENTERS
416	153+66	256+25	4" WHITE 4' RIGHT EDGE DIAGONALS AT 100' CENTERS
416	153+66	256+25	4" WHITE 4' LEFT EDGE DIAGONALS AT 100' CENTERS
432	153+66	256+25	12" WHITE STOP BARS (3 ROWS OF 4" WHITE)
200	153+66	256+25	4" WHITE SYMBOLS
	SB IL 251		
988	158+12	256+25	4" WHITE 4' SKIPS AT 40' CENTERS
400	158+12	256+25	4" WHITE 4' RIGHT EDGE DIAGONALS AT 100' CENTERS
400	158+12	256+25	4" WHITE 4' LEFT EDGE DIAGONALS AT 100' CENTERS
468	158+12	256+25	12" WHITE STOP BARS (3 ROWS OF 4" WHITE)
240	158+12	256+25	4" WHITE SYMBOLS
9,112	**TOTAL**		

70300150 SHORT TERM PAVEMENT MARKING REMOVAL

SQ FT	REMARKS
3,038	IL 251 AND FRONTAGE ROADS
3,038	**TOTAL**

70300210 TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS

SQ FT	STAGE	STA	LT/ RT	REMARKS
15.6	1	145+97	RT	LT ARROW
15.6	1	146+58	RT	LT ARROW
15.6	1	146+10	RT	LT ARROW
47	**TOTAL**			

70300220 TEMPORARY PAVEMENT MARKING - LINE 4"

FOOT	STA	STA	STAGE	REMARKS
	NB IL 251			
940	137+45	147+26	1	YELLOW LT EDGE LINE
622	148+07	154+20	1	YELLOW LT EDGE LINE
268	157+33	160+00	1	WHITE TURN LANE RT EDGE LINE
321	157+33	160+54	1	YELLOW LT EDGE LINE
3438	161+77	196+14	1	YELLOW LT EDGE LINE
	SB IL 251			
2856	175+78	204+33	1	YELLOW LT EDGE LINE

70300220 TEMPORARY PAVEMENT MARKING - LINE 4" (CONTINUED)

FOOT	STA	STA	STAGE	REMARKS
	NB IL 251			
1686	174+68	191+53	2	YELLOW LT EDGE LINE
1685	174+68	191+53	2	WHITE RT EDGE LINE
50	194+10	196+14	2	WHITE SKIP-DASH
	SB IL 251			
50	175+78	177+83	2	WHITE SKIP-DASH
2656	177+83	204+33	2	WHITE RT EDGE LINE
1721	177+83	194+98	2	YELLOW LT EDGE LINE
	NB IL 251			
303	171+00	174+02	3	YELLOW LT EDGE LINE
2321	171+00	194+11	3	WHITE RT EDGE LINE
1633	177+88	194+10	3	YELLOW LT EDGE LINE
	SB IL 251			
2656	177+78	204+33	3	YELLOW LT EDGE LINE
1228	180+67	192+95	3	WHITE RT EDGE LINE
24,434	**TOTAL**			

70300240 TEMPORARY PAVEMENT MARKING - LINE 6"

FOOT	STA	STA	STAGE	REMARKS
	SB IL 251			
124	145+90	147+14	1	WHITE LT TURN LANE
124	**TOTAL**			

70300250 TEMPORARY PAVEMENT MARKING - LINE 8"

FOOT	STA	STA	STAGE	REMARKS
246	154+87	157+33	1	TURN LANE WHITE
246	154+87	157+33	1	MAIN LINE WHITE
492	**TOTAL**			

70300260 TEMPORARY PAVEMENT MARKING - LINE 12"

FOOT	STAGE	STA	STA	OS	REMARKS
76	1	154+87	157+32	RT	WHITE GORE CHEVRONS
76	**TOTAL**				

70300280 TEMPORARY PAVEMENT MARKING - LINE 24"

FOOT	STA	STA	STAGE	REMARKS
11	160+54		1	STOP BAR
11	**TOTAL**			

70400100 TEMPORARY CONCRETE BARRIER

FOOT	STAGE	STA	STA	OS	REMARKS
1,537.5	2	179+31	193+97	33.0	NB & SB LANE DIVIDER
325.0	2	185+04	187+68	15.0	SB RT LANE BARRIER
1,862.5	**TOTAL**				

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

FOOT	STAGE	STA	STA	OS	REMARKS
1,537.5	3	177+78	193+03	-33.0	NB & SB LANE DIVIDER
325.0	3	183+00	186+20	-15.0	NB RT LANE BARRIER
1,862.5	**TOTAL**				

70600251 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3

EACH	STAGE	STA	OS	REMARKS
1	2	187+69	15.0	SB
1	**TOTAL**			

70600352 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3

EACH	STAGE	STA	OS	REMARKS
1	3	183+00	-15.0	NB
1	**TOTAL**			

78000100 THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS

SQ FT	LOC	STA	OFF	REMARKS
15.6	NB IL 251	157+34	47	RIGHT ARROW
15.6	NB IL 251	157+43	12	LEFT ARROW
15.6	NB IL 251	158+74	5	LEFT ARROW
15.6	NB IL 251	158+85	49	RIGHT ARROW
15.6	NB IL 251	160+05	-1	LEFT ARROW
15.6	NB IL 251	160+26	59	RIGHT ARROW
15.6	NB IL 251	208+79	15	LEFT ARROW
15.6	NB IL 251	209+97	9	LEFT ARROW
15.6	NB IL 251	209+98	48	RIGHT ARROW
15.6	NB IL 251	211+36	3	LEFT ARROW
15.6	NB IL 251	211+42	48	RIGHT ARROW
15.6	NB IL 251	212+64	-1	LEFT ARROW
15.6	NB IL 251	212+71	47	RIGHT ARROW
15.6	NB IL 251	221+98	48	RIGHT ARROW
15.6	NB IL 251	223+22	48	RIGHT ARROW
15.6	NB IL 251	223+83	15	LEFT ARROW
15.6	NB IL 251	224+45	48	RIGHT ARROW
15.6	NB IL 251	224+98	10	LEFT ARROW
15.6	NB IL 251	225+47	48	RIGHT ARROW
15.6	NB IL 251	225+47	49	RIGHT ARROW
15.6	NB IL 251	225+99	4	LEFT ARROW
15.6	NB IL 251	226+45	47	RIGHT ARROW
15.6	NB IL 251	227+01	0	LEFT ARROW
15.6	NB IL 251	227+30	51	RIGHT ARROW
15.6	SB IL 251	161+51	-61	RIGHT ARROW
15.6	SB IL 251	161+78	1	LEFT ARROW
15.6	SB IL 251	162+75	-48	RIGHT ARROW
15.6	SB IL 251	163+19	-6	LEFT ARROW
15.6	SB IL 251	164+48	-48	RIGHT ARROW
15.6	SB IL 251	164+92	-14	LEFT ARROW
15.6	SB IL 251	214+49	-48	RIGHT ARROW
15.6	SB IL 251	214+55	0	LEFT ARROW
15.6	SB IL 251	215+61	-48	RIGHT ARROW
15.6	SB IL 251	215+78	-3	LEFT ARROW
15.6	SB IL 251	216+86	-48	RIGHT ARROW
15.6	SB IL 251	217+21	-9	LEFT ARROW
15.6	SB IL 251	218+58	-17	LEFT ARROW
15.6	SB IL 251	228+94	-48	RIGHT ARROW
15.6	SB IL 251	228+95	1	LEFT ARROW
15.6	SB IL 251	229+95	-4	LEFT ARROW
15.6	SB IL 251	230+76	-48	RIGHT ARROW
15.6	SB IL 251	231+06	-9	LEFT ARROW
15.6	SB IL 251	232+25	-13	LEFT ARROW
15.6	SB IL 251	232+93	-48	RIGHT ARROW
15.6	SB IL 251	234+82	-48	RIGHT ARROW
15.6	BLACKHAWK	598+73	26	RIGHT ARROW
11.5	BLACKHAWK	598+74	12	THRU ARROW
15.6	BLACKHAWK	598+75	1	LEFT ARROW
15.6	BLACKHAWK	599+21	41	RIGHT ARROW
11.5	BLACKHAWK	599+38	12	THRU ARROW
15.6	BLACKHAWK	599+38	1	LEFT ARROW
15.6	BLACKHAWK	600+71	-1	LEFT ARROW
11.5	BLACKHAWK	600+74	-13	THRU ARROW
15.6	BLACKHAWK	600+82	-40	RIGHT ARROW
15.6	BLACKHAWK	601+79	-1	LEFT ARROW
15.6	BLACKHAWK	601+79	-28	RIGHT ARROW
11.5	BLACKHAWK	601+80	-13	THRU ARROW
15.6	SAMUELSON	498+74	6	LEFT ARROW
26.0	SAMUELSON	498+75	18	COMBO LEFT/THRU ARROW
15.6	SAMUELSON	498+79	36	RIGHT ARROW
15.6	SAMUELSON	499+10	6	LEFT ARROW
15.6	SAMUELSON	499+25	40	RIGHT ARROW
26.0	SAMUELSON	499+27	18	COMBO LEFT/THRU ARROW
15.6	SAMUELSON	500+93	6	LEFT ARROW
11.5	SAMUELSON	500+93	-7	THRU ARROW
15.6	SAMUELSON	500+96	-18	RIGHT ARROW
15.6	SAMUELSON	501+28	6	LEFT ARROW
11.5	SAMUELSON	501+28	-7	THRU ARROW
15.6	SAMUELSON	501+28	-18	RIGHT ARROW
15.6	AIRPORT	3000+95	4	LEFT ARROW
11.5	AIRPORT	3000+95	15	THRU ARROW
15.6	AIRPORT	3001+25	4	LEFT ARROW
11.5	AIRPORT	3001+25	15	THRU ARROW
15.6	AIRPORT	3001+25	27	RIGHT ARROW
1142	**TOTAL**			

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO. — BY — DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO. — BY — DATE

FILE NAME = D264D70-sht-Schedules_700-800series_001.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SHEET NO. 8 OF 12 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	29
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

78000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4"

FOOT	LOC	STA	STA	REMARKS
2,032	W FRNT RD	1079+82	1099+83	OUTSIDE EDGE LINE - WHITE
711	W FRNT RD	1079+82	1086+41	INSIDE EDGE LINE - WHITE
933	W FRNT RD	1081+54	1086+20	CENTERLINE - DOUBLE YELLOW
1,339	W FRNT RD	1086+98	1099+49	INSIDE EDGE LINE - WHITE
2,249	W FRNT RD	1087+28	1098+53	CENTERLINE - DOUBLE YELLOW
436	W FRNT RD	1098+53	1099+62	CENTERLINE - DOUBLE YELLOW
5,171	W FRNT RD	1100+17	1152+85	OUTSIDE EDGE LINE - WHITE
517	W FRNT RD	1100+30	1101+32	CENTERLINE - DOUBLE YELLOW
5,272	W FRNT RD	1100+41	1152+44	INSIDE EDGE LINE - WHITE
148	W FRNT RD	1101+32	1107+25	CENTERLINE - YELLOW SKIP
1,800	W FRNT RD	1107+25	1116+25	CENTERLINE - DOUBLE YELLOW
719	W FRNT RD	1116+25	1122+00	CENTERLINE - YELLOW SOLID & SKIP
419	W FRNT RD	1122+00	1138+75	CENTERLINE - YELLOW SKIP
781	W FRNT RD	1138+75	1145+00	CENTERLINE - YELLOW SOLID & SKIP
1,466	W FRNT RD	1145+00	1152+33	CENTERLINE - DOUBLE YELLOW
203	W FRNT RD	991+37	999+50	CENTERLINE - YELLOW SKIP
208	W FRNT RD	999+50	1000+54	CENTERLINE - DOUBLE YELLOW
946	W FRNT RD	991+37	1000+81	OUTSIDE EDGE LINE - WHITE
949	W FRNT RD	991+37	1000+63	INSIDE EDGE LINE - WHITE
1,161	W FRNT RD	970+53	985+80	OUTSIDE EDGE LINE - WHITE
1,528	W FRNT RD	970+53	985+54	INSIDE EDGE LINE - WHITE
419	W FRNT RD	984+62	985+68	CENTERLINE - DOUBLE YELLOW
352	W FRNT RD	970+53	984+62	CENTERLINE - YELLOW SKIP
1,462	E FRNT RD	2085+50	2099+86	OUTSIDE EDGE LINE - WHITE
97	E FRNT RD	2085+50	2086+23	INSIDE EDGE LINE - WHITE
1,492	E FRNT RD	2086+72	2099+58	INSIDE EDGE LINE - WHITE
660	E FRNT RD	2086+95	2090+25	CENTERLINE - DOUBLE YELLOW
531	E FRNT RD	2090+25	2094+50	CENTERLINE - YELLOW SOLID & SKIP
103	E FRNT RD	2094+50	2098+61	CENTERLINE - YELLOW SKIP
395	E FRNT RD	2098+61	2099+58	CENTERLINE - DOUBLE YELLOW
5,200	E FRNT RD	2100+09	2152+92	OUTSIDE EDGE LINE - WHITE
266	E FRNT RD	2100+46	2101+12	CENTERLINE - DOUBLE YELLOW
5,273	E FRNT RD	2100+50	2152+50	INSIDE EDGE LINE - WHITE
947	E FRNT RD	2101+12	2139+00	CENTERLINE - YELLOW SKIP
344	E FRNT RD	2139+00	2141+75	CENTERLINE - YELLOW SOLID & SKIP
2,160	E FRNT RD	2141+75	2152+55	CENTERLINE - DOUBLE YELLOW
1,816	E FRNT RD	1981+79	2000+00	OUTSIDE EDGE LINE - WHITE
1,423	E FRNT RD	1986+38	1999+96	INSIDE EDGE LINE - WHITE
54	E FRNT RD	1999+50	1999+77	CENTERLINE - DOUBLE YELLOW
279	E FRNT RD	1988+34	1999+50	CENTERLINE - YELLOW SKIP
853	E FRNT RD	1986+33	1988+34	CENTERLINE - DOUBLE YELLOW
700	E FRNT RD	1983+77	1985+46	CENTERLINE - DOUBLE YELLOW
1,804	E FRNT RD	1968+03	1985+61	INSIDE EDGE LINE - WHITE
394	E FRNT RD	1968+03	1983+77	CENTERLINE - YELLOW SKIP
1,312	E FRNT RD	1968+03	1981+53	OUTSIDE EDGE LINE - WHITE
667	NB IL 251	153+66	160+27	INSIDE EDGE LINE - YELLOW
742	NB IL 251	153+66	160+43	OUTSIDE EDGE LINE - WHITE
5,147	NB IL 251	161+65	213+08	INSIDE EDGE LINE - YELLOW
5,289	NB IL 251	161+26	213+34	OUTSIDE EDGE LINE - WHITE
1,425	NB IL 251	214+12	227+71	OUTSIDE EDGE LINE - WHITE
1,287	NB IL 251	214+39	227+19	INSIDE EDGE LINE - YELLOW
2,749	NB IL 251	228+79	256+27	INSIDE EDGE LINE - YELLOW
1,134	NB IL 251	228+48	239+43	OUTSIDE EDGE LINE - WHITE
891	NB IL 251	241+13	250+04	OUTSIDE EDGE LINE - WHITE
618	NB IL 251	250+07	256+22	RAMP OUTSIDE WHITE
218	SB IL 251	158+12	160+27	INSIDE EDGE LINE - YELLOW
275	SB IL 251	158+11	160+54	OUTSIDE EDGE LINE - WHITE
5,258	SB IL 251	161+30	213+37	OUTSIDE EDGE LINE - WHITE
5,151	SB IL 251	161+65	213+08	INSIDE EDGE LINE - YELLOW
1,287	SB IL 251	214+39	227+19	INSIDE EDGE LINE - YELLOW
1,277	SB IL 251	214+17	226+70	OUTSIDE EDGE LINE - WHITE
1,179	SB IL 251	229+31	241+10	OUTSIDE EDGE LINE - WHITE
2,748	SB IL 251	228+79	256+27	INSIDE EDGE LINE - YELLOW
507	SB IL 251	243+28	248+35	OUTSIDE EDGE LINE - WHITE
608	SB IL 251	248+91	254+98	RAMP OUTSIDE WHITE
126	SB IL 251	255+01	256+27	OUTSIDE EDGE LINE - WHITE
169	BLACKHAWK	598+63	599+48	CENTERLINE - DOUBLE YELLOW
255	BLACKHAWK	600+63	601+91	CENTERLINE - DOUBLE YELLOW
20	SAMUELSON	497+98	498+08	CENTERLINE - DOUBLE YELLOW
97	SAMUELSON	498+68	499+16	CENTERLINE - DOUBLE YELLOW
94	SAMUELSON	500+84	501+31	CENTERLINE - DOUBLE YELLOW
283	AIRPORT	3000+74	3001+42	CENTERLINE - DOUBLE YELLOW

96,825 TOTAL

78000400 THERMOPLASTIC PAVEMENT MARKING - LINE 6"

FOOT	LOC	STA	STA	SKIP %	REMARKS
172	NB IL 251	153+66	160+54	25%	SKIP DASH - WHITE
1,303	NB IL 251	161+20	213+33	25%	SKIP DASH - WHITE
325	NB IL 251	214+56	227+54	25%	SKIP DASH - WHITE
683	NB IL 251	228+97	256+27	25%	SKIP DASH - WHITE
87	NB IL 251	251+53	255+01	25%	SKIP DASH - WHITE
65	SB IL 251	158+12	160+71	25%	SKIP DASH - WHITE
1,289	SB IL 251	161+36	212+90	25%	SKIP DASH - WHITE
318	SB IL 251	214+22	226+94	25%	SKIP DASH - WHITE
693	SB IL 251	228+55	256+27	25%	SKIP DASH - WHITE

4,934 TOTAL

78000500 THERMOPLASTIC PAVEMENT MARKING - LINE 8"

FOOT	LOC	STA	STA	SKIP %	REMARKS
84	NB IL 251	153+94	157+30	25%	MINI SKIP DASH - WHITE
78	NB IL 251	154+19	157+30	25%	MINI SKIP DASH - WHITE
700	NB IL 251	157+30	160+71	100%	LEFT TURN ISLAND - WHITE
286	NB IL 251	157+30	160+16	100%	SOLID - WHITE
177	NB IL 251	160+16	160+73	100%	RIGHT TURN ISLAND - WHITE
71	NB IL 251	206+39	209+22	25%	MINI SKIP DASH - WHITE
57	NB IL 251	207+03	209+32	25%	MINI SKIP DASH - WHITE
801	NB IL 251	209+22	213+33	100%	LEFT TURN ISLAND - WHITE
401	NB IL 251	209+32	213+33	100%	SOLID - WHITE
76	NB IL 251	217+95	221+00	25%	MINI SKIP DASH - WHITE
56	NB IL 251	218+87	221+13	25%	MINI SKIP DASH - WHITE
291	NB IL 252	221+00	223+91	100%	SOLID - WHITE
641	NB IL 253	221+13	227+54	100%	SOLID - WHITE
572	NB IL 254	223+91	227+54	100%	LEFT TURN ISLAND - WHITE
100	NB IL 254	227+54	227+82	100%	RIGHT TURN ISLAND - WHITE
85	NB IL 241	236+04	239+44	25%	MINI SKIP DASH - WHITE
169	NB IL 241	239+44	241+13	100%	RAMP GORE SOLID - WHITE
299	NB IL 241	250+04	251+53	100%	RAMP GORE SOLIDS - WHITE
233	NB IL 241	255+11	256+27	100%	RAMP GORE SOLIDS - WHITE
163	SB IL 251	161+14	161+66	100%	RIGHT TURN ISLAND - WHITE
735	SB IL 251	161+51	164+77	100%	LEFT TURN ISLAND - WHITE
290	SB IL 251	161+66	164+56	100%	SOLID - WHITE
58	SB IL 251	164+56	166+88	25%	MINI SKIP DASH - WHITE
70	SB IL 251	164+77	167+58	25%	MINI SKIP DASH - WHITE
116	SB IL 251	214+03	214+34	100%	RIGHT TURN ISLAND - WHITE
717	SB IL 251	214+22	218+51	100%	LEFT TURN ISLAND - WHITE
276	SB IL 251	214+34	217+10	100%	SOLID - WHITE
91	SB IL 251	217+10	220+74	25%	MINI SKIP DASH - WHITE
73	SB IL 251	218+51	221+43	25%	MINI SKIP DASH - WHITE
80	SB IL 251	228+32	228+82	100%	RIGHT TURN ISLAND - WHITE
560	SB IL 251	228+54	232+09	100%	LEFT TURN ISLAND - WHITE
594	SB IL 251	228+82	234+76	100%	SOLID - WHITE
71	SB IL 251	232+09	234+92	25%	MINI SKIP DASH - WHITE
159	SB IL 251	234+76	241+10	25%	MINI SKIP DASH - WHITE
217	SB IL 251	241+10	243+28	100%	RAMP GORE SOLID - WHITE
366	SB IL 251	248+35	250+43	100%	RAMP GORE SOLIDS - WHITE
295	SB IL 251	253+53	255+01	100%	RAMP GORE SOLIDS - WHITE
99	BLACKHAWK	598+46	599+45	100%	SOLID - WHITE
50	BLACKHAWK	598+46	598+96	100%	SOLID - WHITE
205	BLACKHAWK	598+96	599+58	100%	RIGHT TURN ISLAND - WHITE
180	BLACKHAWK	600+42	600+93	100%	RIGHT TURN ISLAND - WHITE
124	BLACKHAWK	600+64	601+88	100%	SOLID - WHITE
97	BLACKHAWK	600+93	601+88	100%	SOLID - WHITE
72	SAMUELSON	498+68	499+40	100%	SOLID - WHITE
36	SAMUELSON	498+68	499+04	100%	SOLID - WHITE
150	SAMUELSON	499+04	499+57	100%	RIGHT TURN ISLAND - WHITE
47	SAMUELSON	500+84	501+31	100%	SOLID - WHITE
47	SAMUELSON	500+84	501+31	100%	SOLID - WHITE
82	AIRPORT	2999+49	2999+57	100%	RIGHT TURN ISLAND - WHITE
116	AIRPORT	3000+56	3000+94	100%	RIGHT TURN ISLAND - WHITE
66	AIRPORT	3000+78	3001+43	100%	SOLID - WHITE
50	AIRPORT	3000+94	3001+43	100%	SOLID - WHITE

11,529 TOTAL

78000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12"

FOOT	LOC	STA	STA	REMARKS
31	W FRNT RD	1098+53	1099+61	MEDIAN DIAGONALS 15' C-C - YELLOW
31	W FRNT RD	1100+31	1101+59	MEDIAN DIAGONALS 15' C-C - YELLOW
59	W FRNT RD	984+62	985+70	MEDIAN DIAGONALS 15' C-C - YELLOW
35	E FRNT RD	2098+61	2099+58	MEDIAN DIAGONALS 15' C-C - YELLOW
18	E FRNT RD	2100+47	2101+12	MEDIAN DIAGONALS 15' C-C - YELLOW
70	E FRNT RD	1986+33	1988+34	MEDIAN DIAGONALS 15' C-C - YELLOW
64	E FRNT RD	1983+87	1985+46	MEDIAN DIAGONALS 15' C-C - YELLOW
161	NB IL 251	157+30	160+71	LT TURN CHEVRONS 20' C-C - WHITE
98	NB IL 251	160+16	160+73	SE QUADRANT ISLAND - WHITE
184	NB IL 251	209+22	213+33	LT TURN CHEVRONS 20' C-C - WHITE
121	NB IL 251	223+91	227+54	LT TURN CHEVRONS 20' C-C - WHITE
115	NB IL 251	227+54	227+82	SE QUADRANT ISLAND - WHITE
109	SB IL 251	161+14	161+66	NW QUADRANT ISLAND - WHITE
185	SB IL 251	161+20	164+77	LT TURN CHEVRONS 20' C-C - WHITE
130	SB IL 251	214+03	214+34	NW QUADRANT ISLAND - WHITE
202	SB IL 251	214+22	218+51	LT TURN CHEVRONS 20' C-C - WHITE
57	SB IL 251	228+32	228+82	NW QUADRANT ISLAND - WHITE
126	SB IL 251	228+54	232+09	LT TURN CHEVRONS 20' C-C - WHITE
146	BLACKHAWK	598+96	599+58	SW QUADRANT ISLAND - WHITE
130	BLACKHAWK	600+42	600+93	NE QUADRANT ISLAND - WHITE
173	SAMUELSON	499+04	499+57	SW QUADRANT ISLAND - WHITE
62	AIRPORT	2999+49	2999+57	SW QUADRANT ISLAND - WHITE
130	AIRPORT	3000+56	3000+94	NE QUADRANT ISLAND - WHITE
32	AIRPORT	3000+73	3001+43	MEDIAN DIAGONALS 15' C-C - YELLOW

2,469 TOTAL

78000650 THERMOPLASTIC PAVEMENT MARKING - LINE 24"

FOOT	LOC	STA	LT/RT/CT	REMARKS
11	W FRNT RD	1086+20	RT	THRU & RT TURN STOP BAR - WHITE
30	W FRNT RD	1086+55	RT	LT & RT TURN STOP BAR - WHITE
14	W FRNT RD	1087+28	LT	THRU & LT TURN STOP BAR - WHITE
24	W FRNT RD	1099+55	RT	THRU & RT TURN STOP BAR - WHITE
23	W FRNT RD	1100+34	LT	THRU & RT TURN STOP BAR - WHITE
24	W FRNT RD	1152+33	RT	THRU & RT TURN STOP BAR - WHITE
13	W FRNT RD	1000+54	LT	RT TURN STOP BAR - WHITE
27	E FRNT RD	2086+60	LT	LT & RT TURN STOP BAR - WHITE
16	E FRNT RD	2099+52	RT	THRU & RT TURN STOP BAR - WHITE
33	E FRNT RD	2100+52	RT	THRU & RT TURN STOP BAR - WHITE
16	E FRNT RD	2152+55	RT	THRU & RT TURN STOP BAR - WHITE
23	E FRNT RD	1999+78	RT	THRU & RT TURN STOP BAR - WHITE
15	E FRNT RD	1986+57	RT	THRU & LT TURN STOP BAR - WHITE
23	E FRNT RD	1985+39	RT	RT TURN STOP BAR - WHITE
14	NB IL 251	160+25	CT	LT TURN STOP BAR - WHITE
23	NB IL 251	160+53	RT	RT TURN STOP BAR - WHITE
22	NB IL 251	160+54	RT	THRU LANE STOP BAR - WHITE
14	NB IL 251	213+03	LT	LT TURN STOP BAR - WHITE
51	NB IL 251	213+33	RT	THRU & RT TURN STOP BAR - WHITE
14	NB IL 251	227+13	CT	LT TURN STOP BAR - WHITE
47	NB IL 251	227+54	RT	THRU & RT TURN STOP BAR - WHITE
25	SB IL 251	161+35	LT	RT TURN STOP BAR - WHITE
22	SB IL 251	161+35	LT	THRU LANE STOP BAR - WHITE
14	SB IL 251	161+66	CT	LT TURN STOP BAR - WHITE
22	SB IL 251	214+22	LT	THRU LANE STOP BAR - WHITE
20	SB IL 251	214+23	LT	RT TURN STOP BAR - WHITE
13	SB IL 251	214+43	CT	LT TURN STOP BAR - WHITE
22	SB IL 251	228+54	LT	THRU LANE STOP BAR - WHITE
14	SB IL 251	228+82	CT	LT TURN STOP BAR - WHITE
25	BLACKHAWK	599+32	RT	RT TURN STOP BAR - WHITE
23	BLACKHAWK	599+46	CT	THRU & LT TURN STOP BAR - WHITE
24	BLACKHAWK	600+63	CT	THRU & LT TURN STOP BAR - WHITE
25	BLACKHAWK	600+68	LT	RT TURN STOP BAR - WHITE
31	SAMUELSON	498+07	RT	THRU & RT TURN STOP BAR - WHITE
12	SAMUELSON	499+16	RT	LT TURN STOP BAR - WHITE
12	SAMUELSON	499+40	RT	THRU & LT TURN STOP BAR - WHITE
26	SAMUELSON	499+43	RT	RT TURN STOP BAR - WHITE
40	SAMUELSON	500+84	LT	THRU & LT & RT TURN STOP BAR - WHITE
24	AIRPORT	3000+78	RT	THRU & LT TURN STOP BAR - WHITE
24	AIRPORT	3000+79	RT	RT TURN STOP BAR - WHITE

895 TOTAL

78100100 RAISED REFLECTIVE PAVEMENT MARKER

EACH	LOC	STA	TO STA	REMARKS
9	NB IL 251	153+66	160+54	LANE LINE 1-2
15	NB IL 251	157+30	160+25	LEFT TURN LANE RT
17	NB IL 251	157+30	160+54	LANE 1 LT
17	NB IL 251	157+30	160+54	LANE 2 RT
66	NB IL 251	161+20	213+33	LANE LINE 1-2
13	NB IL 251	209+22	211+75	LEFT TURN LANE RT
21	NB IL 251	209+22	213+33	LANE 1 LT
21	NB IL 251	209+30	213+33	LANE 2 RT
17	NB IL 251	214+56	227+54	LANE LINE 1-2
25	NB IL 251	221+00	225+90	LEFT TURN LANE RT
33	NB IL 251	221+00	227+54	LANE 1 LT
33	NB IL 251	221+13	227+54	LANE 2 RT
35	NB IL 251	228+97	256+27	LANE LINE 1-2
4	SB IL 251	158+12	160+71	LANE LINE 1-2
16	SB IL 251	161+66	164+77	LEFT TURN LANE RT
18	SB IL 251	161+36	164+77	LANE 1 LT
16	SB IL 251	161+36	164+56	LANE 2 RT
65	SB IL 251	161+36	212+90	LANE LINE 1-2
15	SB IL 251	215+68	218+51	LEFT TURN LANE RT
22	SB IL 251	214+22	218+51	LANE 1 LT
15	SB IL 251	214+22	217+10	LANE 2 RT
16	SB IL 251	214+22	226+94	LANE LINE 1-2
10	SB IL 251	230+10	232+09	LEFT TURN LANE RT
18	SB IL 251	228+54	232+09	LANE 1 LT
32	SB IL 251	228+54	234+76	LANE 2 RT
35	SB IL 251	228+54	256+27	LANE LINE 1-2
3	BLACKHAWK RD	598+63	599+48	WB CENTERLINE
5	BLACKHAWK RD	598+63	599+48	EB CENTERLINE
6	BLACKHAWK RD	598+46	599+48	EB LEFT TURN
6	BLACKHAWK RD	598+46	599+48	EB THRU
4	BLACKHAWK RD	600+63	601+89	EB CENTERLINE
7	BLACKHAWK RD	600+63	601+89	WB CENTERLINE
7	BLACKHAWK RD	600+63	601+89	WB LEFT TURN
7	BLACKHAWK RD	600+63	601+89	WB THRU
2	SAMUELSON RD	498+68	499+16	WB CENTERLINE
3	SAMUELSON RD	498+68	499+16	EB CENTERLINE
4	SAMUELSON RD	498+68	499+40	EB LEFT TURN
4	SAMUELSON RD	498+68	499+40	EB THRU
2	SAMUELSON RD	500+84	501+31	EB CENTERLINE
3	SAMUELSON RD	500+84	501+31	WB CENTERLINE
3	SAMUELSON RD	500+84	501+31	WB LEFT TURN
3	SAMUELSON RD	500+84	501+31	WB THRU
2	SAMUELSON RD	3000+77	3001+43	EB CENTERLINE
4	SAMUELSON RD	3000+77	3001+43	WB CENTERLINE
4	SAMUELSON RD	3000+77	3001+43	WB LEFT TURN
4	SAMUELSON RD	3000+77	3001+43	WB THRU

687 TOTAL

78100200 TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER

EACH	STAGE	STA	STA	REMARKS
40	2	177+84	182+70	SB CROSS OVER
40	2	189+22	194+00	SB CROSS OVER
40	3	177+88	182+68	NB CROSS OVER
40	3	189+22	194+10	NB CROSS OVER

160 TOTAL

78200005 GUARDRAIL REFLECTORS, TYPE A

EACH	STAGE	STA	STA	OFFSET	REMARKS
10	2	182+52	185+03	LT	MOT STAGE 2
7	2	183+27	185+03	RT	MOT STAGE 2

17 TOTAL

PLAN — SURVEYED / PLOTTED / DRAWN / CHECKED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / DRAWN / CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY / DATE

FILE NAME = D264D70-sht-Schedules.700-800series.002.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SHEET NO. 9 OF 12 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	30
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

78200011 BARRIER WALL REFLECTORS, TYPE C

EACH	STAGE	STA	STA	REMARKS
2	2	185+04	185+35	NB BRIDGE PARAPET
11	2	185+04	187+69	SB BARRIER WALL
13	3	183+00	186+20	NB BARRIER WALL
26	**TOTAL**			

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

EACH	LOC	STA	STA	REMARKS	LENGTH	SPACING	MULTIPLIER
40	STAGE 2	177+84	182+70	SB CROSS OVER			
40	STAGE 2	189+22	194+00	SB CROSS OVER			
40	STAGE 3	177+88	182+68	NB CROSS OVER			
40	STAGE 3	189+22	194+10	NB CROSS OVER			
9	NB IL 251	153+66	160+54	SKIP-DASH	688	80	1
7	NB IL 251	157+30	160+00	TURN LANE SOLID	270	40	1
9	NB IL 251	157+30	160+54	TURN LANE SOLID	324	40	1
9	NB IL 251	157+30	160+54	TURN LANE SOLID	324	40	1
66	NB IL 251	161+20	213+33	SKIP-DASH	5,213	80	1
7	NB IL 251	209+22	211+75	TURN LANE SOLID	253	40	1
11	NB IL 251	209+22	213+33	TURN LANE SOLID	411	40	1
11	NB IL 251	209+32	213+33	TURN LANE SOLID	401	40	1
17	NB IL 251	214+57	227+54	SKIP-DASH	1,297	80	1
13	NB IL 251	221+00	225+88	TURN LANE SOLID	488	40	1
17	NB IL 251	221+00	227+54	TURN LANE SOLID	654	40	1
17	NB IL 251	221+13	227+54	TURN LANE SOLID	641	40	1
35	NB IL 251	228+97	256+27	SKIP-DASH	2,730	80	1
4	SB IL 251	158+12	160+71	SKIP-DASH	259	80	1
9	SB IL 251	161+36	164+77	TURN LANE SOLID	341	40	1
65	SB IL 251	161+36	212+90	SKIP-DASH	5,154	80	1
8	SB IL 251	161+64	164+56	TURN LANE SOLID	292	40	1
8	SB IL 251	161+81	164+77	TURN LANE SOLID	296	40	1
11	SB IL 250	214+22	218+51	TURN LANE SOLID	429	40	1
16	SB IL 251	214+22	226+94	SKIP-DASH	1,272	80	1
7	SB IL 252	214+35	217+10	TURN LANE SOLID	275	40	1
7	SB IL 251	215+75	218+51	TURN LANE SOLID	276	40	1
9	SB IL 251	228+56	232+09	TURN LANE SOLID	353	40	1
35	SB IL 251	228+56	256+27	SKIP-DASH	2,771	80	1
15	SB IL 251	228+82	234+75	TURN LANE SOLID	593	40	1
5	SB IL 251	230+10	232+09	TURN LANE SOLID	199	40	1
2	BLACKHAWK RD	598+46	599+21	TURN LANE SOLID	75	40	1
3	BLACKHAWK RD	598+46	599+46	TURN LANE SOLID	100	40	1
4	BLACKHAWK RD	598+63	599+46	CENTERLINE	83	40	2
3	BLACKHAWK RD	600+63	601+91	TURN LANE SOLID	128	40	1
4	BLACKHAWK RD	600+63	601+91	TURN LANE SOLID	128	40	1
6	BLACKHAWK RD	600+76	601+91	CENTERLINE	115	40	2
2	SAMUELSON RD	498+68	499+16	TURN LANE SOLID	48	40	1
2	SAMUELSON RD	498+68	499+16	TURN LANE SOLID	48	40	1
4	SAMUELSON RD	498+68	499+33	CENTERLINE	65	40	2
2	SAMUELSON RD	500+84	501+31	TURN LANE SOLID	47	40	1
2	SAMUELSON RD	500+84	501+31	TURN LANE SOLID	47	40	1
3	SAMUELSON RD	500+84	501+31	CENTERLINE	47	40	2
2	AIRPORT RD	3000+78	3001+43	TURN LANE SOLID	65	40	1
2	AIRPORT RD	3000+78	3001+43	TURN LANE SOLID	65	40	1
3	AIRPORT RD	3000+94	3001+43	CENTERLINE	49	40	2

160	TEMPORARY SUBTOTAL
471	PERMANENT SUBTOTAL
-47	10% OF PERMANENT MISSING
584	**TOTAL**

PLAN / PROFILE — DATE / BY / SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / B.M. NOTED / STRUCTURE NOTATNS CHKD

FILE NAME = D264D70-sht-Schedules_700-800series_003.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SHEET NO. 10 OF 12 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	31
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

X0322288 MEDIAN CLOSURE

EACH	STATION	REMARKS
	IL 251	
1	180+32	CROSSOVER #1
1	191+60	CROSSOVER #2
2	**TOTAL**	

X0322392 BEVELED PIPE AND GUARD

EACH	STATION	REMARKS
	IL 251	
1	181+76	FOR CROSSOVER
1	190+40	NO. 1 & 2 - SEE D2
1	193+04	STD. 86.1
3	**TOTAL**	

X0326649 LINEAR DELINEATOR PANELS, 6 INCH

EACH	STAGE	STA	STA	REMARKS
10	2	181+00	183+50	NB BARRIER WALL
12	2	180+50	183+50	SB BARRIER WALL
10	2	188+50	191+00	SB BARRIER WALL
12	3	180+50	183+50	NB BARRIER WALL
12	3	188+50	191+50	NB BARRIER WALL
10	3	188+50	191+00	SB BARRIER WALL
66	**TOTAL**			

X0327980 PAVEMENT MARKING REMOVAL - WATER BLASTING

SQ FT	STA	STA	STAGE	REMARKS
	NB IL 251			
70	138+00	146+00	1	4" WHITE SKIP DASH
107	148+34	160+54	1	4" WHITE SKIP DASH
197	157+30	160+25	1	8" SOLID WHITE LT EDGE GORE
227	157+30	160+70	1	8" SOLID WHITE RT EDGE GORE
116	157+30	160+70	1	12" SOLID WHITE GORE CHEVRONS
22	160+54	160+54	1	24" SOLID WHITE STOP BAR
293	161+64	196+14	1	4" WHITE SKIP DASH
	SB IL 251			
243	175+78	204+33	1	4" WHITE SKIP DASH
	NB IL 251			
562	174+68	191+53	2	4" WHITE RT EDGE LINE
543	177+83	194+10	2	4" YELLOW LT EDGE LINE
	SB IL 251			
198	177+78	182+86	2	4" YELLOW LT EDGE LINE
170	189+06	194+98	2	4" YELLOW LT EDGE LINE
410	180+67	192+95	3	4" WHITE RT EDGE LINE
375	182+86	194+10	3	4" YELLOW LT EDGE LINE
3,533	**TOTAL**			

X4022000 TEMPORARY ACCESS (COMMERCIAL ENTRANCE)

EACH	STA	REMARKS
1	1124+90	W. FRONTAGE RD
1	1127+28	W. FRONTAGE RD
1	2123+60	E. FRONTAGE RD
3	**TOTAL**	

X4023000 TEMPORARY ACCESS (ROAD)

EACH	STA	REMARKS
1	1123+38	W. FRONTAGE RD
1	**TOTAL**	

X4400110 TEMPORARY PAVEMENT REMOVAL

SQ YD	STAGE	STA	STA	LT/RT	REMARKS
93	1	185+35	188+04	RT	MEDIAN
93	**TOTAL**				

X4400196 HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL

SQ YD	STA.	STA	REMARKS
	IL 251 JOINT TRIMMING		
2280	153+66	256+27	FULL LENGTH EDGELINES
304	248+91	254+98	SB RAMP INSIDE EDGELINE
73	248+86	250+31	SB RAMP OUTSIDE EDGELINE
138	253+52	256+27	SB RAMP OUTSIDE EDGELINE
310	250+07	256+27	NB RAMP INSIDE EDGELINE
75	250+04	251+53	NB RAMP OUTSIDE EDGELINE
36	255+55	256+27	NB RAMP OUTSIDE EDGELINE
3,214	**TOTAL**		

X5015225 PIPE CULVERT REMOVAL (SPECIAL)

FOOT	STA.	STA.	NO.	REMARKS
	IL 251			
53	2123+39	2123+81	5	30" RCP
53	**TOTAL**			

X6026050 SANITARY MANHOLES TO BE ADJUSTED

EACH	STATION	OFFSET	RRWRD STRUCTURE ID	REMARKS
	East Frontage Road			
1	2127+42	48' RT	165-065	RRWRD
1	2130+46	46' RT	165-066	RRWRD
1	2134+43	44' RT	165-067	RRWRD
1	2136+47	41' RT	165-068	RRWRD
1	2139+67	40' RT	165-069	RRWRD
1	2152+16	43' RT	129-127	RRWRD
1	1994+63	29' LT	129-039	RRWRD
1	1981+28	11' LT	129-098	RRWRD
1	1977+83	37' LT	129-028	RRWRD
	West Frontage Road			
1	1087+12	18' LT	160-036	RRWRD
1	981+36	24' RT	129-116	RRWRD
1	977+84	22' RT	129-115	RRWRD
12	**TOTAL**			

X6026056 SANITARY MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID

EACH	STATION	OFFSET	RRWRD STRUCTURE ID	REMARKS
	East Frontage Road			
1	2123+71	48' RT	165-002	RRWRD
1	2148+90	32' RT	129-128	RRWRD
1	1981+58	4' RT	129-034	RRWRD
	West Frontage Road			
1	1090+21	25' LT	160-035	RRWRD
1	1097+18	27' LT	160-033	RRWRD
5	**TOTAL**			

X6026057 SANITARY MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID

EACH	STATION	OFFSET	RRWRD STRUCTURE ID	REMARKS
	East Frontage Road			
1	1991+89	39' LT	129-050	RRWRD
1	1989+78	18' LT	129-038	RRWRD
1	1987+92	7' RT	129-037	RRWRD
1	1985+40	38'RT	129-100	RRWRD
4	**TOTAL**			

X7030005 TEMPORARY PAVEMENT MARKING REMOVAL

SQ FT	STA	STA	STAGE	REMARKS
	NB IL 251			
716	174+68	196+14	2	4" SOLID YELLOW LT EDGE LINE
	SB IL 251			
952	175+78	204+33	2	4" SOLID YELLOW LT EDGE LINE
	NB IL 251			
400	171+00	183+00	3	4" SOLID YELLOW LT EDGE LINE
400	171+00	183+00	3	4" SOLID WHITE RT EDGE LINE
	SB IL 251			
167	177+83	182+86	3	4" SOLID YELLOW LT EDGE LINE (SOUTH X-OVER)
167	177+83	182+86	3	4" SOLID WHITE RT EDGE LINE (SOUTH X-OVER)
171	189+06	194+98	3	4" SOLID YELLOW LT EDGE LINE (NORTH X-OVER)
171	189+06	194+98	3	4" SOLID WHITE RT EDGE LINE (NORTH X-OVER)
340	194+98	204+33	3	4" SOLID WHITE RT EDGE LINE
3,484	**TOTAL**			

X7040125 PINNING TEMPORARY CONCRETE BARRIER

EACH	STAGE	STA	STA	REMARKS
38	3	184+32	185+67	PROTECTION OF BOX CULVERT DUE TO STAGING (NB)
38	**TOTAL**			

X7830060 GROOVING FOR RECESSED PAVEMENT MARKING, LETTER AND SYMBOLS

SQ FT	LOC	STA	OFF	REMARKS
49.1	NB IL 251	157+34	47	RIGHT ARROW
49.1	NB IL 251	157+43	12	LEFT ARROW
49.1	NB IL 251	158+74	5	LEFT ARROW
49.1	NB IL 251	158+85	49	RIGHT ARROW
49.1	NB IL 251	160+05	-1	LEFT ARROW
49.1	NB IL 251	160+26	59	RIGHT ARROW
49.1	NB IL 251	208+79	15	LEFT ARROW
49.1	NB IL 251	209+97	9	LEFT ARROW
49.1	NB IL 251	209+98	48	RIGHT ARROW
49.1	NB IL 251	211+36	3	LEFT ARROW
49.1	NB IL 251	211+42	48	RIGHT ARROW
49.1	NB IL 251	212+64	-1	LEFT ARROW
49.1	NB IL 251	212+71	47	RIGHT ARROW
49.1	NB IL 251	221+98	48	RIGHT ARROW
49.1	NB IL 251	223+22	48	RIGHT ARROW
49.1	NB IL 251	223+83	15	LEFT ARROW
49.1	NB IL 251	224+45	48	RIGHT ARROW
49.1	NB IL 251	224+98	10	LEFT ARROW
49.1	NB IL 251	225+47	48	RIGHT ARROW
49.1	NB IL 251	225+47	49	RIGHT ARROW
49.1	NB IL 251	225+99	4	LEFT ARROW
49.1	NB IL 251	226+45	47	RIGHT ARROW
49.1	NB IL 251	227+01	0	LEFT ARROW
49.1	NB IL 251	227+30	51	RIGHT ARROW
49.1	SB IL 251	161+51	-61	RIGHT ARROW
49.1	SB IL 251	161+78	1	LEFT ARROW
49.1	SB IL 251	162+75	-48	RIGHT ARROW
49.1	SB IL 251	163+19	-6	LEFT ARROW
49.1	SB IL 251	164+48	-48	RIGHT ARROW
49.1	SB IL 251	164+92	-14	LEFT ARROW
49.1	SB IL 251	214+49	-48	RIGHT ARROW
49.1	SB IL 251	214+55	0	LEFT ARROW
49.1	SB IL 251	215+61	-48	RIGHT ARROW
49.1	SB IL 251	215+78	-3	LEFT ARROW
49.1	SB IL 251	216+86	-48	RIGHT ARROW
49.1	SB IL 251	217+21	-9	LEFT ARROW
49.1	SB IL 251	218+58	-17	LEFT ARROW
49.1	SB IL 251	228+94	-48	RIGHT ARROW
49.1	SB IL 251	228+95	1	LEFT ARROW
49.1	SB IL 251	229+95	-4	LEFT ARROW
49.1	SB IL 251	230+76	-48	RIGHT ARROW
49.1	SB IL 251	231+06	-9	LEFT ARROW
49.1	SB IL 251	232+25	-13	LEFT ARROW
49.1	SB IL 251	232+93	-48	RIGHT ARROW
49.1	SB IL 251	234+82	-48	RIGHT ARROW
2210	**TOTAL**			

PLAN — DATE | BY | SURVEYED | PLOTTED | DRAWN | CHECKED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. ____

PROFILE — DATE | BY | SURVEYED | PLOTTED | DRAWN | CHECKED | B.M. NOTED | STRUCTURE NO'S CHKD | NOTE BOOK | NO. ____

FILE NAME = D264070-sht-Schedules_X-Z series_001.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SHEET NO. 11 OF 12 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	32
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN | SURVEYED | PLOTTED | DRAWN | CHECKED | NOTE BOOK | NO. ____ | BY | DATE | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME

PROFILE | SURVEYED | PLOTTED | DRAWN | CHECKED | NOTE BOOK | NO. ____ | BY | DATE | B.M. NOTED | STRUCTURE NOTATNS CHKD

X7830070 GROOVING FOR RECESSED PAVEMENT MARKING 5"

FOOT	LOC	STA	STA	REMARKS
667	NB IL 251	153+66	160+27	INSIDE EDGE LINE - YELLOW
742	NB IL 251	153+66	160+43	OUTSIDE EDGE LINE - WHITE
5,147	NB IL 251	161+65	213+08	INSIDE EDGE LINE - YELLOW
5,289	NB IL 251	161+26	213+34	OUTSIDE EDGE LINE - WHITE
1,425	NB IL 251	214+12	227+71	OUTSIDE EDGE LINE - WHITE
1,287	NB IL 251	214+39	227+19	INSIDE EDGE LINE - YELLOW
2,749	NB IL 251	228+79	256+27	INSIDE EDGE LINE - YELLOW
1,134	NB IL 251	228+48	239+43	OUTSIDE EDGE LINE - WHITE
891	NB IL 251	241+13	250+04	OUTSIDE EDGE LINE - WHITE
618	NB IL 251	250+07	256+22	RAMP OUTSIDE WHITE
218	SB IL 251	158+12	160+27	INSIDE EDGE LINE - YELLOW
275	SB IL 251	158+11	160+54	OUTSIDE EDGE LINE - WHITE
5,258	SB IL 251	161+30	213+37	OUTSIDE EDGE LINE - WHITE
5,151	SB IL 251	161+65	213+08	INSIDE EDGE LINE - YELLOW
1,287	SB IL 251	214+39	227+19	INSIDE EDGE LINE - YELLOW
1,277	SB IL 251	214+17	226+70	OUTSIDE EDGE LINE - WHITE
1,179	SB IL 251	229+31	241+10	OUTSIDE EDGE LINE - WHITE
2,748	SB IL 251	228+79	256+27	INSIDE EDGE LINE - YELLOW
507	SB IL 251	243+28	248+35	OUTSIDE EDGE LINE - WHITE
608	SB IL 251	248+91	254+98	RAMP OUTSIDE WHITE
126	SB IL 251	255+01	256+27	OUTSIDE EDGE LINE - WHITE

38,583 TOTAL

X7830074 GROOVING FOR RECESSED PAVEMENT MARKING 7"

FOOT	LOC	STA	STA	SKIP %	REMARKS
172	NB IL 251	153+66	160+54	25%	SKIP DASH - WHITE
1,303	NB IL 251	161+20	213+33	25%	SKIP DASH - WHITE
325	NB IL 251	214+56	227+54	25%	SKIP DASH - WHITE
683	NB IL 251	228+97	256+27	25%	SKIP DASH - WHITE
87	NB IL 251	251+53	255+01	25%	SKIP DASH - WHITE
65	SB IL 251	158+12	160+71	25%	SKIP DASH - WHITE
1,289	SB IL 251	161+36	212+90	25%	SKIP DASH - WHITE
318	SB IL 251	214+22	226+94	25%	SKIP DASH - WHITE
693	SB IL 251	228+55	256+27	25%	SKIP DASH - WHITE

4,934 TOTAL

X7830076 GROOVING FOR RECESSED PAVEMENT MARKING 9"

FOOT	LOC	STA	STA	SKIP %	REMARKS
84	NB IL 251	153+94	157+30	25%	MINI SKIP DASH - WHITE
78	NB IL 251	154+19	157+30	25%	MINI SKIP DASH - WHITE
700	NB IL 251	157+30	160+71	100%	LEFT TURN ISLAND - WHITE
286	NB IL 251	157+30	160+16	100%	SOLID - WHITE
177	NB IL 251	160+16	160+73	100%	RIGHT TURN ISLAND - WHITE
71	NB IL 251	206+39	209+22	25%	MINI SKIP DASH - WHITE
57	NB IL 251	207+03	209+32	25%	MINI SKIP DASH - WHITE
801	NB IL 251	209+22	213+33	100%	LEFT TURN ISLAND - WHITE
401	NB IL 251	209+32	213+33	100%	SOLID - WHITE
76	NB IL 251	217+95	221+00	25%	MINI SKIP DASH - WHITE
56	NB IL 251	218+87	221+13	25%	MINI SKIP DASH - WHITE
291	NB IL 252	221+00	223+91	100%	SOLID - WHITE
641	NB IL 253	221+13	227+54	100%	SOLID - WHITE
572	NB IL 254	223+91	227+54	100%	LEFT TURN ISLAND - WHITE
100	NB IL 254	227+54	227+82	100%	RIGHT TURN ISLAND - WHITE
85	NB IL 241	236+04	239+44	25%	MINI SKIP DASH - WHITE
169	NB IL 241	239+44	241+13	100%	RAMP GORE SOLID - WHITE
299	NB IL 241	250+04	251+53	100%	RAMP GORE SOLIDS - WHITE
233	NB IL 241	255+11	256+27	100%	RAMP GORE SOLIDS - WHITE
163	SB IL 251	161+14	161+66	100%	RIGHT TURN ISLAND - WHITE
735	SB IL 251	161+20	164+77	100%	LEFT TURN ISLAND - WHITE
290	SB IL 251	161+66	164+56	100%	SOLID - WHITE
58	SB IL 251	164+56	166+88	25%	MINI SKIP DASH - WHITE
70	SB IL 251	164+77	167+58	25%	MINI SKIP DASH - WHITE
116	SB IL 251	214+03	214+34	100%	RIGHT TURN ISLAND - WHITE
717	SB IL 251	214+22	218+51	100%	LEFT TURN ISLAND - WHITE
276	SB IL 251	214+34	217+10	100%	SOLID - WHITE
91	SB IL 251	217+10	220+74	25%	MINI SKIP DASH - WHITE
73	SB IL 251	218+51	221+43	25%	MINI SKIP DASH - WHITE
80	SB IL 251	228+32	228+82	100%	RIGHT TURN ISLAND - WHITE
560	SB IL 251	228+54	232+09	100%	LEFT TURN ISLAND - WHITE
594	SB IL 251	228+82	234+76	100%	SOLID - WHITE
71	SB IL 251	232+09	234+92	25%	MINI SKIP DASH - WHITE
159	SB IL 251	234+76	241+10	25%	MINI SKIP DASH - WHITE
217	SB IL 251	241+10	243+28	100%	RAMP GORE SOLID - WHITE
366	SB IL 251	248+35	250+43	100%	RAMP GORE SOLIDS - WHITE
295	SB IL 251	253+53	255+01	100%	RAMP GORE SOLIDS - WHITE
205	BLACKHAWK	598+96	599+58	100%	RIGHT TURN ISLAND - WHITE
180	BLACKHAWK	600+42	600+93	100%	RIGHT TURN ISLAND - WHITE
150	SAMUELSON	499+04	499+57	100%	RIGHT TURN ISLAND - WHITE
82	AIRPORT	2999+49	2999+57	100%	RIGHT TURN ISLAND - WHITE
116	AIRPORT	3000+56	3000+94	100%	RIGHT TURN ISLAND - WHITE

10,841 TOTAL

X7830078 GROOVING FOR RECESSED PAVEMENT MARKING 13"

FOOT	LOC	STA	STA	REMARKS
161	NB IL 251	157+30	160+71	LT TURN CHEVRONS 20' C-C - WHITE
98	NB IL 251	160+16	160+73	SE QUADRANT ISLAND - WHITE
184	NB IL 251	209+22	213+33	LT TURN CHEVRONS 20' C-C - WHITE
121	NB IL 251	223+91	227+54	LT TURN CHEVRONS 20' C-C - WHITE
115	NB IL 251	227+54	227+82	SE QUADRANT ISLAND - WHITE
109	SB IL 251	161+14	161+66	NW QUADRANT ISLAND - WHITE
185	SB IL 251	161+20	164+77	LT TURN CHEVRONS 20' C-C - WHITE
130	SB IL 251	214+03	214+34	NW QUADRANT ISLAND - WHITE
202	SB IL 251	214+22	218+51	LT TURN CHEVRONS 20' C-C - WHITE
57	SB IL 251	228+32	228+82	NW QUADRANT ISLAND - WHITE
126	SB IL 251	228+54	232+09	LT TURN CHEVRONS 20' C-C - WHITE
146	BLACKHAWK	598+96	599+58	SW QUADRANT ISLAND - WHITE
130	BLACKHAWK	600+42	600+93	NE QUADRANT ISLAND - WHITE
173	SAMUELSON	499+04	499+57	SW QUADRANT ISLAND - WHITE
62	AIRPORT	2999+49	2999+57	SW QUADRANT ISLAND - WHITE
130	AIRPORT	3000+56	3000+94	NE QUADRANT ISLAND - WHITE

2,129 TOTAL

X7830090 GROOVING FOR RECESSED PAVEMENT MARKING 25"

FOOT	LOC	STA	LT/RT/CT	REMARKS
14	NB IL 251	160+25	CT	LT TURN STOP BAR - WHITE
23	NB IL 251	160+53	RT	RT TURN STOP BAR - WHITE
22	NB IL 251	160+54	RT	THRU LANE STOP BAR - WHITE
14	NB IL 251	213+03	LT	LT TURN STOP BAR - WHITE
51	NB IL 251	213+33	RT	THRU & RT TURN STOP BAR - WHITE
14	NB IL 251	227+13	CT	LT TURN STOP BAR - WHITE
47	NB IL 251	227+54	RT	THRU & RT TURN STOP BAR - WHITE
25	SB IL 251	161+35	LT	RT TURN STOP BAR - WHITE
22	SB IL 251	161+35	LT	THRU LANE STOP BAR - WHITE
14	SB IL 251	161+66	CT	LT TURN STOP BAR - WHITE
22	SB IL 251	214+22	LT	THRU LANE STOP BAR - WHITE
20	SB IL 251	214+23	LT	RT TURN STOP BAR - WHITE
13	SB IL 251	214+43	CT	LT TURN STOP BAR - WHITE
22	SB IL 251	228+54	LT	THRU LANE STOP BAR - WHITE
14	SB IL 251	228+82	CT	LT TURN STOP BAR - WHITE

337 TOTAL

X8860400 DETECTOR LOOP, SPECIAL

FOOT	STA.	OFFSET	REMARKS
	IL 251		
87	156+55	RT	NB IL 251
119	158+53	RT	NB IL 251
100	163+35	LT	SB IL 251
80	165+35	LT	SB IL 252
87	209+23	RT	NB IL 251
91	211+23	RT	NB IL 251
95	216+30	LT	SB IL 251
102	218+30	LT	SB IL 252
94	223+35	RT	NB IL 251
94	225+33	RT	NB IL 251
96	230+30	LT	SB IL 251
143	232+30	LT	SB IL 252

1,188 TOTAL

Z0028415 GEOTECHNICAL REINFORCEMENT

SQ YD	STA	STA	REMARKS
	FULL LENGTH IL 251		
3,866	153+66	256+27	OMIT PATCHES OVER CULVERTS

3,866 TOTAL

Z0033700 LONGITUDINAL JOINT SEALANT

FOOT	STA.	STA	REMARKS
	IL 251		
10261	153+66	256+27	SB FULL LENGTH CENTERLINE
10261	153+66	256+27	NB FULL LENGTH CENTERLINE

20,522 TOTAL

Z0034105 MATERIAL TRANSFER DEVICE

TON	SQ YD	REMARKS
		IL-251 AND FRONTAGE ROADS
2069		LEVELING BINDER (MACHINE METHOD, IL-9.5FG, N50
12768		HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
6136		HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
7240		HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N70
2956	23457	HOT-MIX ASPHALT SHOULDERS, 2 1/4"
271	805	HOT-MIX ASPHALT SHOULDERS, 6"
177	484	HOT-MIX ASPHALT SHOULDERS, 6 1/2"

31,617 TOTAL

Z0062456 TEMPORARY PAVEMENT

SQ YD	STAGE	STA	STA	LT/RT	REMARKS
93	1	185+35	188+04	RT	MEDIAN

93 TOTAL

Z0065740 SLOTTED DRAIN 12" WITH 6" SLOT

FOOT	STA	STA	REMARKS
	IL 251		
233	179+42	181+75	CROSSOVER #1
264	190+40	193+04	CROSSOVER #2

497 TOTAL

FILE NAME = D264D70-sht-Schedules-X-Z series.002.dgn

KNIGHT
Engineers & Architects

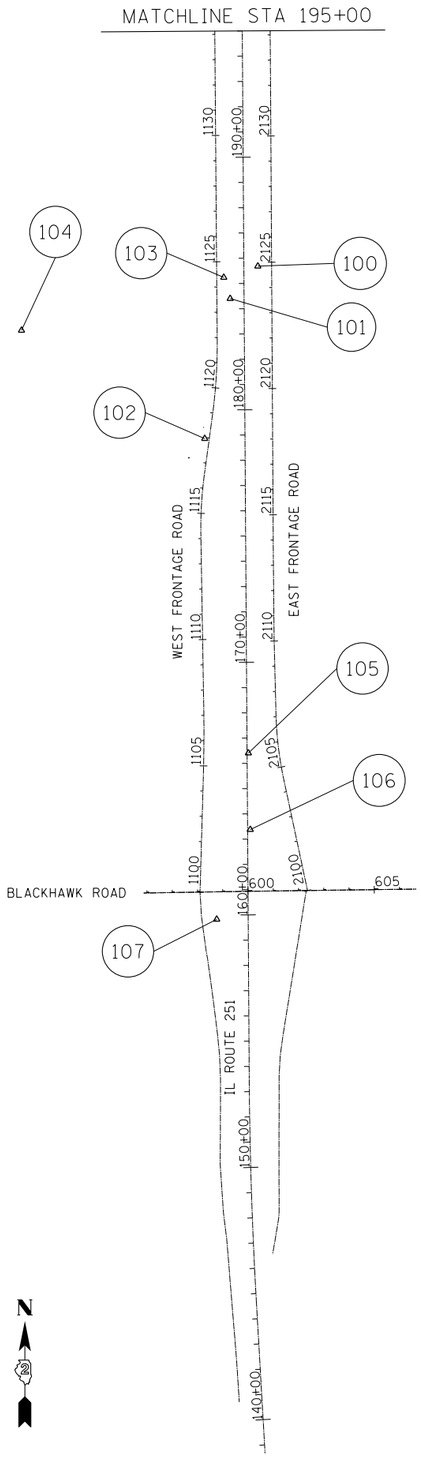
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CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SHEET NO. 12 OF 12 SHEETS | STA. | TO STA.

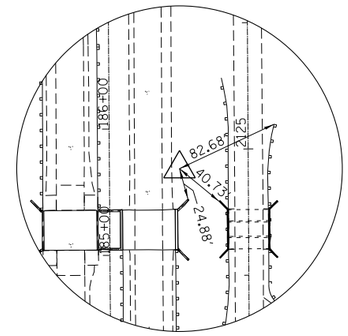
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	33
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



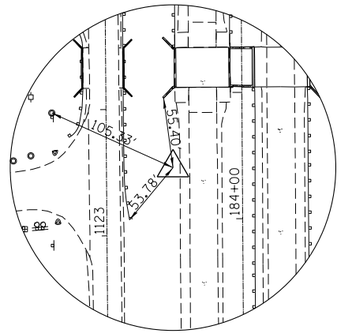
HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	2017748.3470	2593161.0936	730.6442	D2_NB251WINNB	185+68.27	55.54	PIN & CAP
101	2017620.0764	2593051.5073	730.6942	D2_NB251WINNB	184+40.73	-54.89	PIN & CAP
102	2017065.7037	2592950.6607	737.7905	D2_NB251WINNB	178+87.04	-159.41	PIN & CAP
103	2017703.7576	2593026.1192	723.2628	D2_NB251WINNB	185+24.58	-79.72	NAIL
104	2017494.1603	2592225.0605	724.9285	D2_NB251WINNB	183+20.30	-882.15	NAIL
105	2015820.5220	2593123.6731	736.1188	D2_NB251WINNB	166+40.74	5.34	NAIL
106	2015517.6364	2593130.8955	739.4639	D2_NB251WINNB	163+37.81	10.56	NAIL
107	2015162.1874	2592998.1840	747.1022	D2_NB251WINNB	159+83.25	-124.51	PIN & CAP

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
400	2018508.6757	2593193.3373	730.1213	D2_NB251WINNB	193+28.37	92.83	CHISELED SQUARE - CENTER OF HEADWALL
401	2017571.1882	2593277.9986	727.7987	D2_NB251WINNB	183+90.34	171.27	TOP OF BOLT STEM-BASE OF P-POLE - STAMPED X
402	2016400.0256	2593293.9775	734.1370	D2_NB251WINNB	172+19.10	179.49	CHISELED SQUARE - P-POLE FOUNDATION
403	2017715.0538	2593097.8469	732.0542	D2_NB251WINNB	185+35.40	-7.92	CHISELED SQUARE - TOP OF WINGWALL

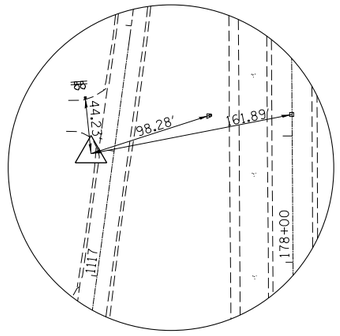
REFERENCE TIES				
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
500	D2_NB251WINNB	193+04.23	-16.18	PK NAIL, SHOULDER EDGE
501	D2_NB251WINNB	193+40.82	-0.06	CENTER OF DROP BOX
502	D2_NB251WINNB	193+02.90	16.54	PK NAIL, SHOULDER EDGE
503	D2_NB251WINNB	172+67.29	-0.07	CENTER OF DROP BOX
504	D2_NB251WINNB	172+38.47	-15.91	PK NAIL, SHOULDER EDGE
505	D2_NB251WINNB	172+38.05	16.22	PK NAIL, SHOULDER EDGE
506	D2_NB251WINNB	186+39.83	88.04	END OF GUARDRAIL
507	D2_NB251WINNB	185+42.19	87.03	CORNER OF WINGWALL - BOX CULVERT
508	D2_NB251WINNB	185+43.87	62.00	CORNER OF WINGWALL - BRIDGE
509	D2_NB251WINNB	184+96.03	-62.03	CORNER OF WINGWALL - BRIDGE
510	D2_NB251WINNB	184+97.34	-87.29	CORNER OF WINGWALL - BOX CULVERT
511	D2_NB251WINNB	183+99.53	-88.49	END OF GUARDRAIL
512	D2_NB251WINNB	179+31.12	-163.89	STEEL GUARDRAIL POST
513	D2_NB251WINNB	178+84.56	-152.89	CORNER OF COMM ENTRANCE & FRONTAGE RD
514	D2_NB251WINNB	178+11.63	-222.82	CORNER OF TELEPHONE SPLICE BOX



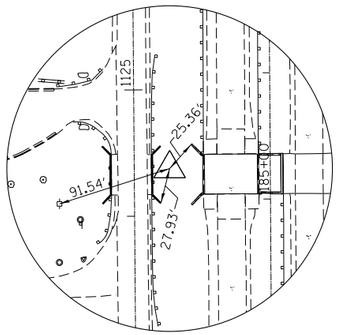
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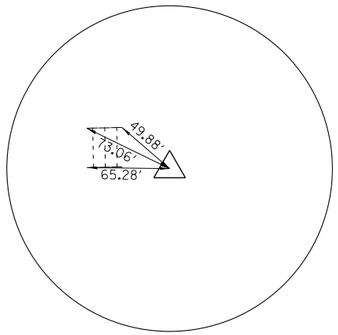
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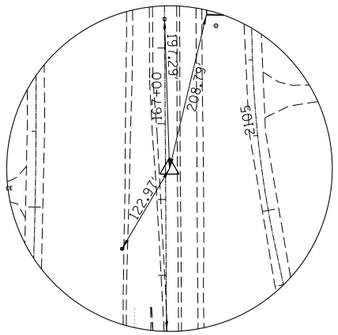
HORIZONTAL CONTROL POINT NO. 102



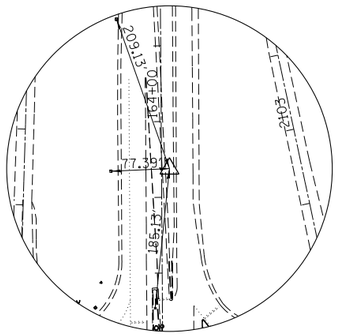
HORIZONTAL CONTROL POINT NO. 103



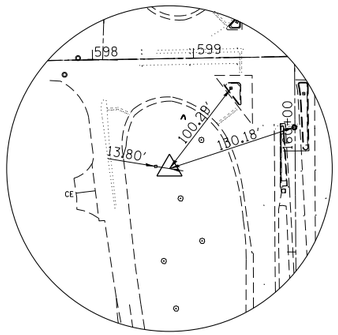
HORIZONTAL CONTROL POINT NO. 104



HORIZONTAL CONTROL POINT NO. 105



HORIZONTAL CONTROL POINT NO. 106



HORIZONTAL CONTROL POINT NO. 107

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = D264070-sht-align-001.dgn

KNIGHT Engineers & Architects

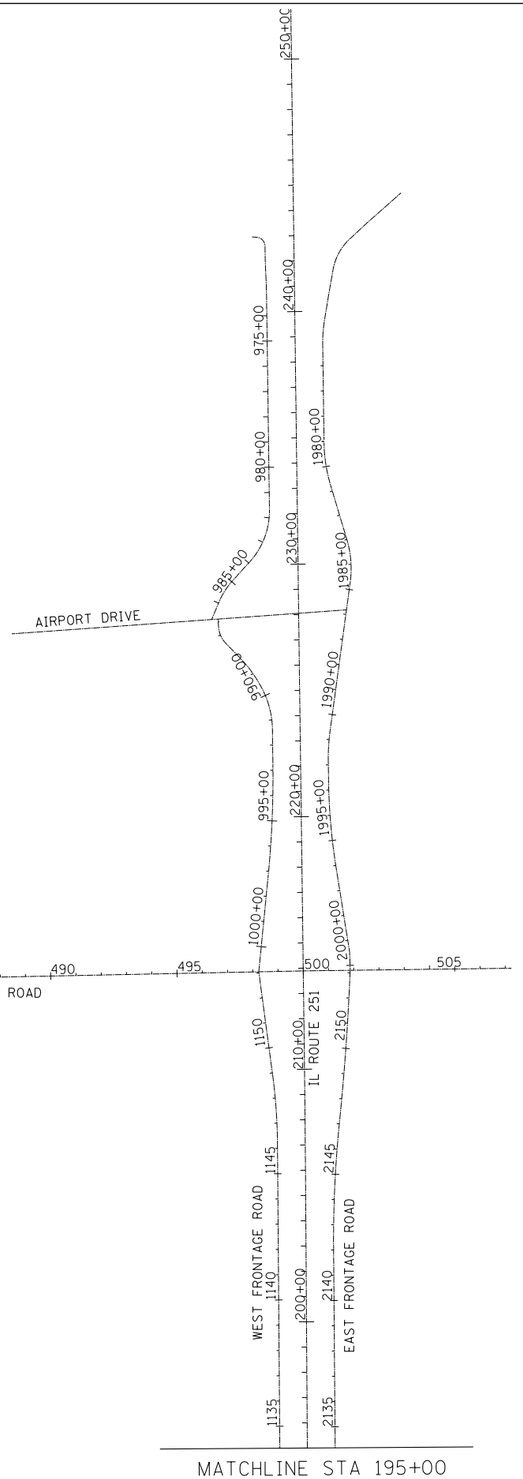
DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS

SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	34
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



Beginning chain D2_NB251WINNB description

Point 330 N 2,007,695.51 E 2,593,322.38 Sta 85+12.23

Course from 330 to PC 340 N 1° 07′ 50.83″ W Dist 4,133.14

Curve Data

Curve 340
P.I. Station 131+40.58 N 2,012,322.96 E 2,593,231.04
Delta = 2° 08′ 42.90″ (LT)
Degree = 0° 12′ 59.85″
Tangent = 495.21
Length = 990.31
Radius = 26,449.42
External = 4.64
Long Chord = 990.25
Mid. Ord. = 4.63
P.C. Station 126+45.37 N 2,011,827.85 E 2,593,240.82
P.T. Station 136+35.68 N 2,012,817.37 E 2,593,202.74
C.C. N 2,011,305.88 E 2,566,796.55
Back = N 1° 07′ 50.83″ W
Ahead = N 3° 16′ 33.73″ W
Chord Bear = N 2° 12′ 12.28″ W

Course from PT 340 to PC 350 N 3° 16′ 33.73″ W Dist 836.80

Curve Data

Curve 350
P.I. Station 149+12.31 N 2,014,091.91 E 2,593,129.79
Delta = 2° 53′ 46.34″ (RT)
Degree = 0° 19′ 45.53″
Tangent = 439.83
Length = 879.47
Radius = 17,398.52
External = 5.56
Long Chord = 879.37
Mid. Ord. = 5.56
P.C. Station 144+72.48 N 2,013,652.80 E 2,593,154.92
P.T. Station 153+51.95 N 2,014,531.73 E 2,593,126.87
C.C. N 2,014,647.06 E 2,610,525.01
Back = N 3° 16′ 33.73″ W
Ahead = N 0° 22′ 47.39″ W
Chord Bear = N 1° 49′ 40.56″ W

Course from PT 350 to PC 200 N 0° 22′ 47.39″ W Dist 5,104.20

Curve Data

Curve 200
P.I. Station 208+19.73 N 2,019,999.39 E 2,593,090.62
Delta = 0° 21′ 40.75″ (LT)
Degree = 0° 02′ 58.88″
Tangent = 363.58
Length = 727.15
Radius = 115,307.08
External = 0.57
Long Chord = 727.15
Mid. Ord. = 0.57
P.C. Station 204+56.15 N 2,019,635.82 E 2,593,093.04
P.T. Station 211+83.30 N 2,020,362.93 E 2,593,085.92
C.C. N 2,018,871.42 E 2,477,788.49
Back = N 0° 22′ 47.39″ W
Ahead = N 0° 44′ 28.13″ W
Chord Bear = N 0° 33′ 37.76″ W

Course from PT 200 to 63 N 0° 44′ 28.13″ W Dist 5,119.32

Point 63 N 2,025,481.82 E 2,593,019.70 Sta 263+02.62

Ending chain D2_NB251WINNB description

Beginning chain BLACKHAWK description

Point 1011 N 2,015,266.40 E 2,592,708.87 Sta 595+86.86

Course from 1011 to 1038 N 89° 03′ 54.36″ E Dist 413.14

Point 1038 N 2,015,273.14 E 2,593,121.96 Sta 600+00.00

Course from 1038 to 1013 N 89° 14′ 36.38″ E Dist 665.77

Point 1013 N 2,015,281.93 E 2,593,787.67 Sta 606+65.77

Ending chain BLACKHAWK description

Beginning chain FRONTAGE_EAST description

Point 1037 N 2,015,276.25 E 2,593,357.61 Sta 2100+00.00

Course from 1037 to PC 1230 N 12° 03′ 43.45″ W Dist 450.99

Curve Data

Curve 1230
P.I. Station 2105+81.48 N 2,015,844.89 E 2,593,236.09
Delta = 10° 36′ 59.05″ (RT)
Degree = 4° 04′ 46.87″
Tangent = 130.49
Length = 260.23
Radius = 1,404.42
External = 6.05
Long Chord = 259.85
Mid. Ord. = 6.02
P.C. Station 2104+50.99 N 2,015,717.28 E 2,593,263.36
P.T. Station 2107+11.22 N 2,015,975.33 E 2,593,232.80
C.C. N 2,016,010.77 E 2,594,636.77
Back = N 12° 03′ 43.45″ W
Ahead = N 1° 26′ 44.40″ W
Chord Bear = N 6° 45′ 13.92″ W

Course from PT 1230 to 1030 N 1° 26′ 44.40″ W Dist 296.59

Point 1030 N 2,016,271.83 E 2,593,225.32 Sta 2110+07.81

Course from 1030 to 7207 N 0° 31′ 55.19″ W Dist 322.72

Point 7207 N 2,016,594.53 E 2,593,222.32 Sta 2113+30.53

Course from 7207 to 31 N 0° 20′ 17.52″ W Dist 1,889.67

Point 31 N 2,018,484.18 E 2,593,211.17 Sta 2132+20.20

Course from 31 to PC 270 N 0° 27′ 16.73″ W Dist 986.16

Curve Data

Curve 270
P.I. Station 2144+50.34 N 2,019,714.28 E 2,593,201.41
Delta = 6° 05′ 10.32″ (RT)
Degree = 1° 14′ 54.36″
Tangent = 243.98
Length = 487.51
Radius = 4,589.41
External = 6.48
Long Chord = 487.28
Mid. Ord. = 6.47
P.C. Station 2142+06.36 N 2,019,470.31 E 2,593,203.34
P.T. Station 2146+93.87 N 2,019,957.09 E 2,593,225.35
C.C. N 2,019,506.72 E 2,597,792.61
Back = N 0° 27′ 16.73″ W
Ahead = N 5° 37′ 53.59″ E
Chord Bear = N 2° 35′ 18.43″ E

Course from PT 270 to PC 280 N 5° 37′ 53.59″ E Dist 40.66

Curve Data

Curve 280
P.I. Station 2149+95.40 N 2,020,257.16 E 2,593,254.94
Delta = 3° 03′ 12.82″ (LT)
Degree = 0° 35′ 07.40″
Tangent = 260.88
Length = 521.63
Radius = 9,787.63
External = 3.48
Long Chord = 521.57
Mid. Ord. = 3.47
P.C. Station 2147+34.53 N 2,019,997.55 E 2,593,229.34
P.T. Station 2152+56.15 N 2,020,517.78 E 2,593,266.67
C.C. N 2,020,958.02 E 2,583,488.95
Back = N 5° 37′ 53.59″ E
Ahead = N 2° 34′ 40.76″ E
Chord Bear = N 4° 06′ 17.17″ E

Course from PT 280 to 290 N 2° 34′ 40.76″ E Dist 53.65

Point 290 N 2,020,571.38 E 2,593,269.09 Sta 2153+09.81

Ending chain FRONTAGE_EAST description

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE — SURVEYED, PLOTTED, CROSS'S CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = D264D70-sht-Align-002.dgn

KNIGHT Engineers & Architects

	DESIGNED - DJC	REVISED -
	DRAWN - DJC	REVISED -
	CHECKED - DMS	REVISED -
	DATE - 12/14/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS

SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	35
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Beginning chain FRONTAGE_WEST description

Point 1036 N 2,015,270.04 E 2,592,932.01 Sta 1100+00.00

Course from 1036 to PC 1220 N 1° 38′ 40.64″ E Dist 444.98

Curve Data

Curve 1220
P.I. Station 1105+96.40 N 2,015,866.19 E 2,592,949.13
Delta = 2° 36′ 22.48″ (LT)
Degree = 0° 51′ 38.70″
Tangent = 151.42
Length = 302.79
Radius = 6,656.50
External = 1.72
Long Chord = 302.76
Mid. Ord. = 1.72
P.C. Station 1104+44.98 N 2,015,714.83 E 2,592,944.78
P.T. Station 1107+47.76 N 2,016,017.59 E 2,592,946.58
C.C. N 2,015,905.87 E 2,586,291.03
Back = N 1° 38′ 40.64″ E
Ahead = N 0° 57′ 41.84″ W
Chord Bear = N 0° 20′ 29.40″ E

Course from PT 1220 to PC 1210 N 0° 57′ 41.84″ W Dist 667.83

Curve Data

Curve 1210
P.I. Station 1115+37.89 N 2,016,807.60 E 2,592,933.32
Delta = 8° 45′ 59.20″ (RT)
Degree = 3° 35′ 27.41″
Tangent = 122.30
Length = 244.13
Radius = 1,595.56
External = 4.68
Long Chord = 243.89
Mid. Ord. = 4.67
P.C. Station 1114+15.59 N 2,016,685.32 E 2,592,935.38
P.T. Station 1116+59.71 N 2,016,928.77 E 2,592,949.93
C.C. N 2,016,712.09 E 2,594,530.71
Back = N 0° 57′ 41.84″ W
Ahead = N 7° 48′ 17.35″ E
Chord Bear = N 3° 25′ 17.76″ E

Course from PT 1210 to PC 1200 N 7° 48′ 17.35″ E Dist 224.05

Curve Data

Curve 1200
P.I. Station 1120+37.74 N 2,017,303.29 E 2,593,001.27
Delta = 8° 15′ 27.31″ (LT)
Degree = 2° 41′ 09.89″
Tangent = 153.98
Length = 307.42
Radius = 2,133.06
External = 5.55
Long Chord = 307.16
Mid. Ord. = 5.54
P.C. Station 1118+83.76 N 2,017,150.74 E 2,592,980.36
P.T. Station 1121+91.19 N 2,017,457.27 E 2,593,000.05
C.C. N 2,017,440.41 E 2,590,867.06
Back = N 7° 48′ 17.35″ E
Ahead = N 0° 27′ 09.95″ W
Chord Bear = N 3° 40′ 33.70″ E

Course from PT 1200 to 20 N 0° 27′ 09.95″ W Dist 1,030.26

Point 20 N 2,018,487.50 E 2,592,991.91 Sta 1132+21.45

Course from 20 to PC 220 N 0° 26′ 27.53″ W Dist 1,395.87

Curve Data

Curve 220
P.I. Station 1147+56.17 N 2,020,022.18 E 2,592,980.10
Delta = 7° 12′ 21.82″ (LT)
Degree = 2° 35′ 53.86″
Tangent = 138.85
Length = 277.34
Radius = 2,205.13
External = 4.37
Long Chord = 277.16
Mid. Ord. = 4.36
P.C. Station 1146+17.32 N 2,019,883.33 E 2,592,981.17
P.T. Station 1148+94.66 N 2,020,159.80 E 2,592,961.62
C.C. N 2,019,866.36 E 2,590,776.10
Back = N 0° 26′ 27.53″ W
Ahead = N 7° 38′ 49.35″ W
Chord Bear = N 4° 02′ 38.44″ W

Course from PT 220 to 250 N 7° 38′ 49.35″ W Dist 409.25

Point 250 N 2,020,565.41 E 2,592,907.16 Sta 1153+03.91

Ending chain FRONTAGE_WEST description

Beginning chain FRONT_E_2 description

Point H18 N 2,022,665.45 E 2,593,165.44 Sta 1979+00.00

Course from H18 to PC FRONT_E_21 S 0° 46′ 00.11″ E Dist 4.94

Curve Data

Curve FRONT_E_21
P.I. Station 1979+11.12 N 2,022,654.33 E 2,593,165.59
Delta = 1° 09′ 05.88″ (LT)
Degree = 9° 18′ 58.99″
Tangent = 6.18
Length = 12.36
Radius = 615.00
External = 0.03
Long Chord = 12.36
Mid. Ord. = 0.03
P.C. Station 1979+04.94 N 2,022,660.51 E 2,593,165.51
P.T. Station 1979+17.30 N 2,022,648.15 E 2,593,165.80
C.C. N 2,022,668.74 E 2,593,780.45
Back = S 0° 46′ 00.11″ E
Ahead = S 1° 55′ 06.00″ E
Chord Bear = S 1° 20′ 33.05″ E

Curve Data

Curve FRONT_E_22
P.I. Station 1979+97.08 N 2,022,568.42 E 2,593,168.47
Delta = 14° 46′ 59.14″ (LT)
Degree = 9° 18′ 58.99″
Tangent = 79.78
Length = 158.68
Radius = 615.00
External = 5.15
Long Chord = 158.24
Mid. Ord. = 5.11
P.C. Station 1979+17.30 N 2,022,648.15 E 2,593,165.80
P.T. Station 1980+75.98 N 2,022,492.00 E 2,593,191.40
C.C. N 2,022,668.74 E 2,593,780.45
Back = S 1° 55′ 06.00″ E
Ahead = S 16° 42′ 05.14″ E
Chord Bear = S 9° 18′ 35.57″ E

Course from PT FRONT_E_22 to PC FRONT_E_23 S 16° 42′ 05.14″ E Dist 224.48

Curve Data

Curve FRONT_E_23
P.I. Station 1983+86.97 N 2,022,194.13 E 2,593,280.77
Delta = 24° 24′ 21.49″ (RT)
Degree = 14° 19′ 26.20″
Tangent = 86.50
Length = 170.39
Radius = 400.00
External = 9.25
Long Chord = 169.10
Mid. Ord. = 9.04
P.C. Station 1983+00.46 N 2,022,276.99 E 2,593,255.91
P.T. Station 1984+70.85 N 2,022,108.41 E 2,593,269.17
C.C. N 2,022,162.03 E 2,592,872.78
Back = S 16° 42′ 05.14″ E
Ahead = S 7° 42′ 16.35″ W
Chord Bear = S 4° 29′ 54.39″ E

Course from PT FRONT_E_23 to PC FRONT_E_24 S 7° 42′ 16.35″ W Dist 594.47

Curve Data

Curve FRONT_E_24
P.I. Station 1991+24.56 N 2,021,460.60 E 2,593,181.53
Delta = 8° 28′ 11.39″ (LT)
Degree = 7° 09′ 43.10″
Tangent = 59.24
Length = 118.26
Radius = 800.00
External = 2.19
Long Chord = 118.15
Mid. Ord. = 2.18
P.C. Station 1990+65.32 N 2,021,519.30 E 2,593,189.48
P.T. Station 1991+83.58 N 2,021,401.37 E 2,593,182.33
C.C. N 2,021,412.05 E 2,593,982.25
Back = S 7° 42′ 16.35″ W
Ahead = S 0° 45′ 55.04″ E
Chord Bear = S 3° 28′ 10.66″ W

Course from PT FRONT_E_24 to PC FRONT_E_25 S 0° 45′ 55.04″ E Dist 76.83

Curve Data

Curve FRONT_E_25
P.I. Station 1994+34.01 N 2,021,150.95 E 2,593,185.67
Delta = 8° 19′ 10.00″ (LT)
Degree = 2° 24′ 01.14″
Tangent = 173.60
Length = 346.60
Radius = 2,387.01
External = 6.30
Long Chord = 346.29
Mid. Ord. = 6.29
P.C. Station 1992+60.41 N 2,021,324.54 E 2,593,183.35
P.T. Station 1996+07.01 N 2,020,979.53 E 2,593,213.08
C.C. N 2,021,356.42 E 2,595,570.15
Back = S 0° 45′ 55.04″ E
Ahead = S 9° 05′ 05.04″ E
Chord Bear = S 4° 55′ 30.04″ E

Course from PT FRONT_E_25 to H19 S 9° 05′ 05.04″ E Dist 341.07

Point H19 N 2,020,642.74 E 2,593,266.93 Sta 1999+48.07

Course from H19 to H20 S 1° 43′ 39.73″ E Dist 69.40

Point H20 N 2,020,573.38 E 2,593,269.03 Sta 2000+17.47

Ending chain FRONT_E_2 description

Beginning chain SAMUELSN description

Point 58 N 2,020,539.53 E 2,591,638.59 Sta 485+55.03

Course from 58 to 210 N 88° 49′ 52.10″ E Dist 1,444.97

Point 210 N 2,020,569.00 E 2,593,083.25 Sta 500+00.00

Course from 210 to 55 N 89° 16′ 03.90″ E Dist 824.58

Point 55 N 2,020,579.54 E 2,593,907.77 Sta 508+24.58

Ending chain SAMUELSN description

Beginning chain FRONT_W_2 description

Point H21 N 2,021,663.06 E 2,592,959.22 Sta 990+00.00

Course from H21 to PC FRONT_W_21 S 0° 46′ 21.06″ E Dist 276.68

Curve Data

Curve FRONT_W_21
P.I. Station 994+95.91 N 2,021,167.19 E 2,592,965.91
Delta = 6° 20′ 52.52″ (RT)
Degree = 1° 26′ 57.19″
Tangent = 219.24
Length = 438.02
Radius = 3,953.56
External = 6.07
Long Chord = 437.80
Mid. Ord. = 6.06
P.C. Station 992+76.68 N 2,021,386.41 E 2,592,962.95
P.T. Station 997+14.70 N 2,020,949.00 E 2,592,944.61
C.C. N 2,021,333.11 E 2,589,009.75
Back = S 0° 46′ 21.06″ E
Ahead = S 5° 34′ 31.46″ W
Chord Bear = S 2° 24′ 05.20″ W

Course from PT FRONT_W_21 to H22 S 5° 34′ 31.46″ W Dist 385.41

Point H22 N 2,020,565.41 E 2,592,907.16 Sta 1001+00.11

Ending chain FRONT_W_2 description

Beginning chain FRONT_W_3 description

Point I30 N -124,320.72 E 445,455.35 Sta 974+00.00

Course from I30 to I31 S 0° 46′ 21.06″ E Dist 667.73

Point I31 N -124,988.39 E 445,464.35 Sta 980+67.73

Course from I31 to PC FRONT_W_31 S 0° 46′ 20.60″ E Dist 100.58

Curve Data

Curve FRONT_W_31
P.I. Station 982+86.70 N -125,207.34 E 445,467.30
Delta = 43° 04′ 13.14″ (RT)
Degree = 19° 05′ 54.94″
Tangent = 118.39
Length = 225.52
Radius = 300.00
External = 22.51
Long Chord = 220.24
Mid. Ord. = 20.94
P.C. Station 981+68.31 N -125,088.96 E 445,465.71
P.T. Station 983+93.83 N -125,294.90 E 445,387.63
C.C. N -125,093.01 E 445,165.73
Back = S 0° 46′ 20.60″ E
Ahead = S 42° 17′ 52.54″ W
Chord Bear = S 20° 45′ 45.97″ W

Course from PT FRONT_W_31 to PC FRONT_W_32 S 42° 17′ 52.54″ W Dist 100.01

Curve Data

Curve FRONT_W_32
P.I. Station 985+45.37 N -125,406.99 E 445,285.64
Delta = 19° 29′ 34.05″ (LT)
Degree = 19° 05′ 54.94″
Tangent = 51.53
Length = 102.06
Radius = 300.00
External = 4.39
Long Chord = 101.57
Mid. Ord. = 4.33
P.C. Station 984+93.84 N -125,368.88 E 445,320.32
P.T. Station 985+95.91 N -125,454.50 E 445,265.67
C.C. N -125,570.78 E 445,542.22
Back = S 42° 17′ 52.54″ W
Ahead = S 22° 48′ 18.48″ W
Chord Bear = S 32° 33′ 05.51″ W

Course from PT FRONT_W_32 to I32 S 22° 48′ 18.48″ W Dist 74.74

Point I32 N -125,523.40 E 445,236.70 Sta 986+70.65

Ending chain FRONT_W_3 description

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / BM. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY / DATE

FILE NAME = D264070-sht-align-003.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS

SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	36
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

HOT-MIX ASPHALT SHOULDERS, 2¼"
1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

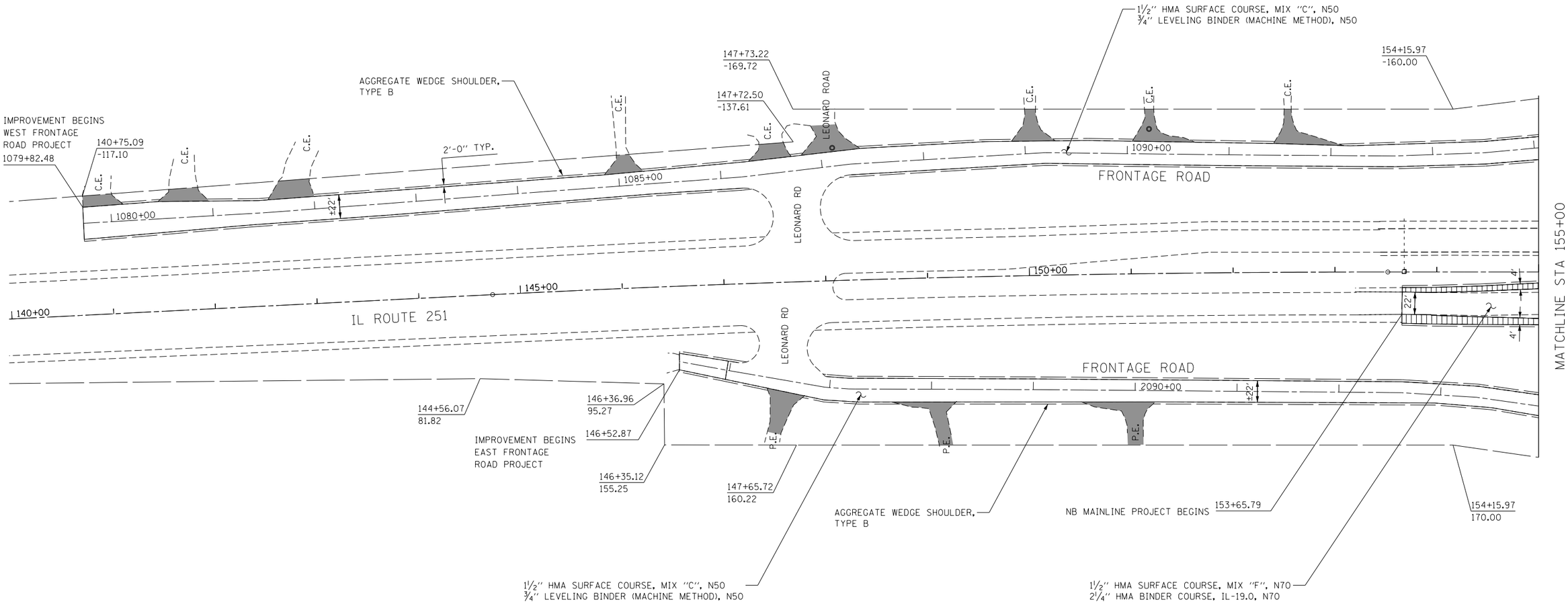
HOT-MIX ASPHALT SHOULDERS, 6½"
1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
AGGREGATE SUBGRADE IMPROVEMENT, 12"

INCIDENTAL HOT-MIX ASPHALT SURFACING (2¼")

XXX-XXX RRWRD SANITARY MANHOLE ID

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADE CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE



FILE NAME = 0264D70-sht-Plan-001.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
PLAN

SHEET NO. 1 OF 8 SHEETS | STA. 140+00 | TO STA. 155+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	37
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

HOT-MIX ASPHALT SHOULDERS, 2¼"
1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

HOT-MIX ASPHALT SHOULDERS, 6½"
1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
AGGREGATE SUBGRADE IMPROVEMENT, 12"

INCIDENTAL HOT-MIX ASPHALT SURFACING (2¼")

XXX-XXX RRWRD SANITARY MANHOLE ID

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, ALIGNMENTS CHECKED, BM. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

MATCHLINE STA 155+00

MATCHLINE STA 170+00

BLACKHAWK ROAD

160+56.72
-349.99

161+23.88
-240.00

IMPROVEMENT BEGINS 597+56.97

160+27.40
-236.20

1½" HMA SURFACE COURSE, MIX "C", N50
¾" LEVELING BINDER (MACHINE METHOD), N50

AGGREGATE WEDGE SHOULDER, TYPE B

EXIST ROW

C.E.

FRONTAGE ROAD

1095+00

1100+00

1105+00

±22'

SB MAINLINE PROJECT BEGINS 158+11.45

DETECTOR LOOP, SPECIAL (100')

DETECTOR LOOP, SPECIAL (80')

22'

33'

14'

155+00

160+00

165+00

IL ROUTE 251

DETECTOR LOOP, SPECIAL (87')

DETECTOR LOOP, SPECIAL (119')

2095+00

2100+00

2105+00

AC

AGC

167+15.97
185.00

162+02.93
244.26

161+42.86
293.00

602+84.75

IMPROVEMENT ENDS

160+40.99
260.00

160+48.74
278.27

1½" HMA SURFACE COURSE, MIX "F", N70
2¼" HMA BINDER COURSE, IL-19.0, N70

50 0 50 100
HORIZONTAL SCALE: 1"=50'-0"

FILE NAME = D264D70-sht-Plan-002.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
PLAN

SHEET NO. 2 OF 8 SHEETS | STA. 155+00 | TO STA. 170+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	38
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

HOT-MIX ASPHALT SHOULDERS, 2¼"
1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

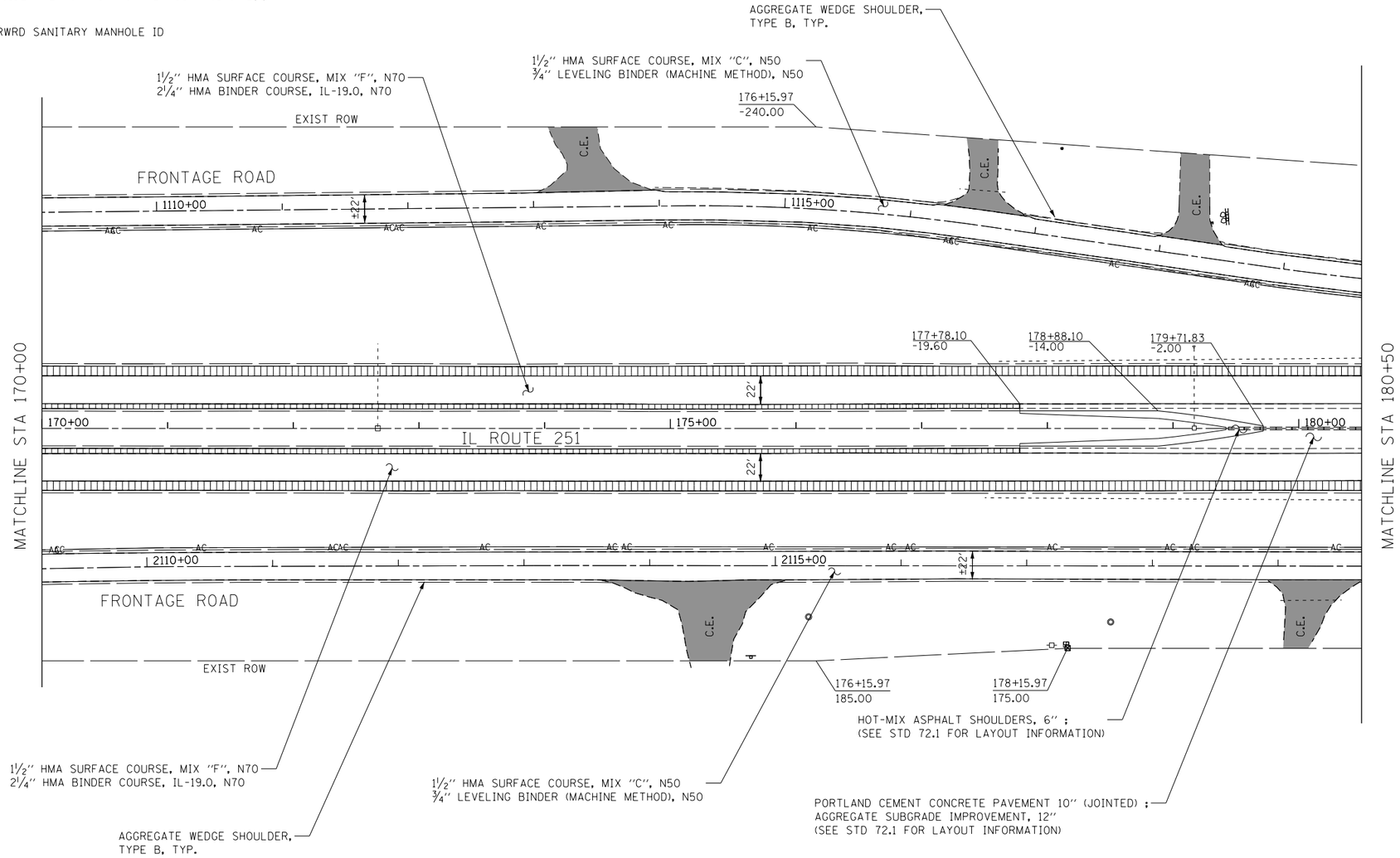
HOT-MIX ASPHALT SHOULDERS, 6½"
1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
AGGREGATE SUBGRADE IMPROVEMENT, 12"

INCIDENTAL HOT-MIX ASPHALT SURFACING (2¼")

XXX-XXX RRWRD SANITARY MANHOLE ID

PLAN
DATE | BY | SURVEYED | PLOTTED | DRAWN | CHECKED | QUANTITY CHECKED | R.P. OF MAX CHECKED | CADD FILE NAME | NOTE BOOK | NO.

PROFILE
DATE | BY | SURVEYED | PLOTTED | DRAWN | CHECKED | DGNS CHECKED | B.M. NOTED | STRUCTURE NOTATNS CHK'D | NOTE BOOK | NO.



50 0 50 100
HORIZONTAL SCALE: 1"=50'-0"

FILE NAME = D264D70-sht-Plan-003.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
PLAN

SHEET NO. 3 OF 8 SHEETS | STA. 170+00 | TO STA. 180+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	39
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

- HOT-MIX ASPHALT SHOULDERS, 2¼"
  1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
- HOT-MIX ASPHALT SHOULDERS, 6½"
  1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
  AGGREGATE SUBGRADE IMPROVEMENT, 12"
- INCIDENTAL HOT-MIX ASPHALT SURFACING (2¼")
- XXX-XXX RRWRD SANITARY MANHOLE ID

NOTES

1. SEE REMOVAL PLANS FOR LOCATIONS OF CLASS B PATCHING
2. CLASS B PATCHING SHALL BE IN ACCORDANCE WITH THE PAVEMENT PATCHING DETAIL.

MILFORD AVENUE

1124+55.54 -81.61
1124+59.70 -79.23
1124+63.87 -76.86
1124+70.00 -67.31
1124+72.74 -63.12
R=5'
R=5'
PR ROW

COMBINATION CONCRETE CURB & GUTTER TYPE B-6.18
(27 FOOT)
(FIRST 5' OF CC&G TB-6.18 TO BE DEPRESSED)

AGGREGATE BASE COURSE, TYPE B 8"
INCIDENTAL HOT-MIX ASPHALT SURFACING (2¼")
(227 SQ YD) (SEE D.S. 20.1)

1124+49.40 -13.22
1125+34.90 -13.68

STA 184+72.63 TO STA 185+63.75
CLASS B PATCHES, TYPE IV, 10 INCH (223 SQ YD);
1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N70"
2¼" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70

1½" HMA SURFACE COURSE, MIX "F", N70
2¼" HMA BINDER COURSE, IL-19.0, N70

AGGREGATE WEDGE SHOULDER, TYPE B

1½" HMA SURFACE COURSE, MIX "C", N50
¾" LEVELING BINDER (MACHINE METHOD), N50

184+61.50 -265.00
185+40.00 -265.00
184+73.39 -190.00
184+75.08 -179.34
185+40.00 -190.00
TEMP. EASE.
C.E.
PR ROW

STA 184+67.08 TO STA 185+55.80
CLASS B PATCHES, TYPE IV, 8 INCH (237 SQ YD);
1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
¾" LEVELING BINDER (MACHINE METHOD), N50

AGGREGATE WEDGE SHOULDER, TYPE B, TYP.

183+44.37 -188.57
C.E.

AGGREGATE BASE COURSE, TYPE B 12"
INCIDENTAL HOT-MIX ASPHALT SURFACING (3")
(276 SQ YD) (SEE D.S. 20.1 & D.S. 93.2)

186+25.00 -168.75
187+48.97 -160.00
SAN MH 131-157

AGGREGATE BASE COURSE, TYPE B 8"
INCIDENTAL HOT-MIX ASPHALT SURFACING (2¼")
(140 SQ YD) (SEE D.S. 20.1)

CONSTRUCTION LIMITS
EXIST ROW
FRONTAGE ROAD

1120+00 1125+00 1130+00
±22'

1122+83.29 -13.66
1123+99.92 -13.87
1126+96.25 -14.08
1127+60.70 -14.02
180+91.83 -2.00
181+75.56 -14.00
182+86.16 -19.42
189+06.27 -20.36
190+16.27 -14.00
191+00.00 -2.00
192+20.00 -2.00
193+03.73 -14.00
194+13.73 -20.05

185+69.04
184+72.97
185+63.75
185+69.04
22'
185+00
190+00
195+00
IL ROUTE 251

184+72.97
185+69.04
186+66.03
EX 42" SANITARY SEWER

MATCHLINE STA 180+50

2123+25.76 11.99
2123+82.25 11.73
2120+00 2125+00 2130+00

184+00.00 175.00
185+00.00 200.00
186+50.00 180.00
187+50.00 175.00
PR ROW
C.E.

CONSTRUCTION LIMITS

EXIST ROW
FRONTAGE ROAD
AGGREGATE WEDGE SHOULDER, TYPE B

MATCHLINE STA 195+50

HOT-MIX ASPHALT SHOULDERS, 6" ;
(SEE STD 72.1 FOR LAYOUT INFORMATION)

PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED) ;
AGGREGATE SUBGRADE IMPROVEMENT, 12"
(SEE STD 72.1 FOR LAYOUT INFORMATION)

1½" HMA SURFACE COURSE, MIX "F", N70
2¼" HMA BINDER COURSE, IL-19.0, N70

HOT-MIX ASPHALT SHOULDERS, 6" ;
(SEE STD 72.1 FOR LAYOUT INFORMATION)

STA 184+78.14 TO STA 185+69.04
CLASS B PATCHES, TYPE IV, 10 INCH (222 SQ YD);
1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N70"
2¼" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70

STA 184+86.12 TO STA 185+74.97
CLASS B PATCHES, TYPE IV, 8 INCH (221 SQ YD);
1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
¾" LEVELING BINDER (MACHINE METHOD), N50

STA 185+21 S.N. 101-2050
4 - PRECAST CONCRETE BOX CULVERTS 11' X 6' @ 5° SKEW - 1.064';
BOX CULVERT END SECTIONS, CULVERT NO. 1

AGGREGATE BASE COURSE, TYPE B 8"
INCIDENTAL HOT-MIX ASPHALT SURFACING (2¼")
(172 SQ YD) (SEE D.S. 20.1)

PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED) ;
AGGREGATE SUBGRADE IMPROVEMENT, 12"
(SEE STD 72.1 FOR LAYOUT INFORMATION)

HOT-MIX ASPHALT SHOULDERS, 6" ;
(SEE STD 72.1 FOR LAYOUT INFORMATION)

1½" HMA SURFACE COURSE, MIX "C", N50
¾" LEVELING BINDER (MACHINE METHOD), N50

1½" HMA SURFACE COURSE, MIX "F", N70
2¼" HMA BINDER COURSE, IL-19.0, N70

N

50 0 50 100
HORIZONTAL SCALE: 1"=50'-0"

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

FILE NAME = D264D70-sht-Plan-0004.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
PLAN

SHEET NO. 4 OF 8 SHEETS | STA. 180+50 | TO STA. 195+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	40
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

HOT-MIX ASPHALT SHOULDERS, 2¼"
1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

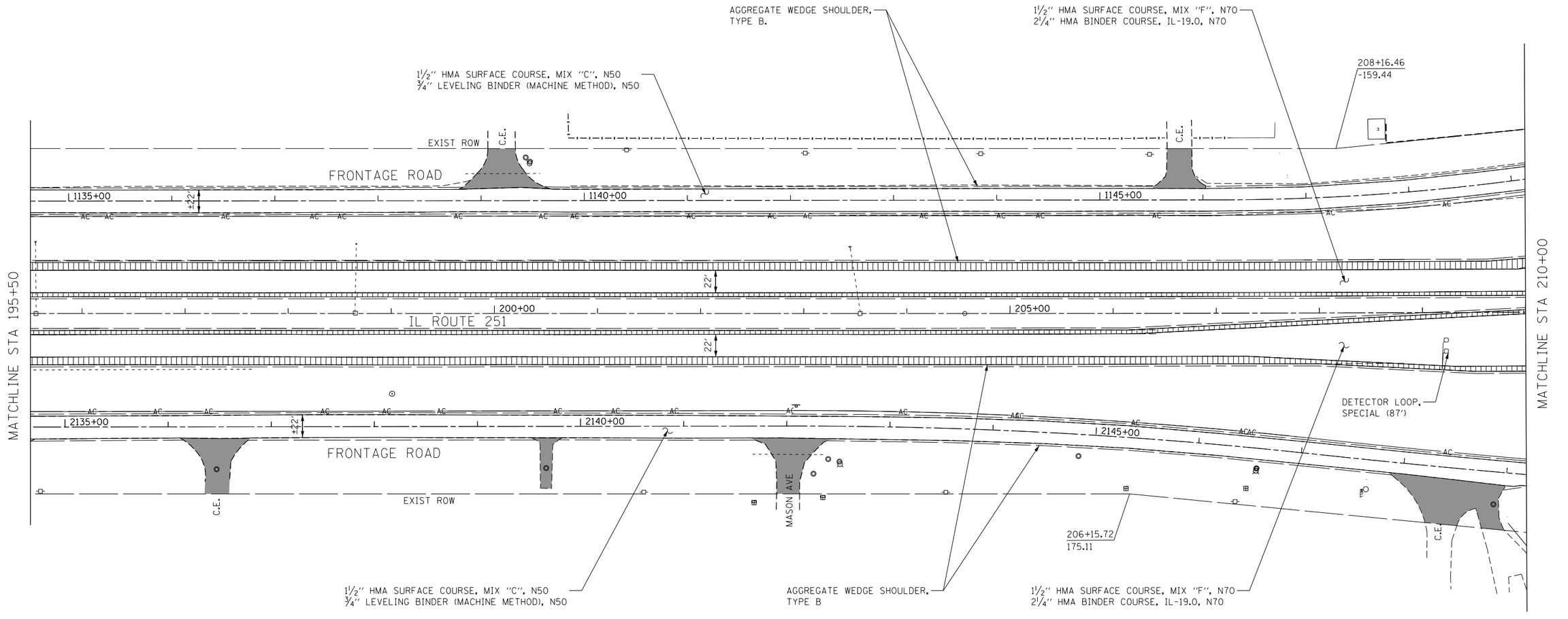
HOT-MIX ASPHALT SHOULDERS, 6½"
1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
AGGREGATE SUBGRADE IMPROVEMENT, 12"

INCIDENTAL HOT-MIX ASPHALT SURFACING (2¼")

XXX-XXX RRWRD SANITARY MANHOLE ID

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
BY
DATE



50 0 50 100
HORIZONTAL SCALE: 1"=50'-0"

FILE NAME = D264070-sht-Plan-005.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
PLAN

SHEET NO. 5 OF 8 SHEETS | STA. 195+50 | TO STA. 210+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	41
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

- HOT-MIX ASPHALT SHOULDERS, 2¼"
  1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
- HOT-MIX ASPHALT SHOULDERS, 6½"
  1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
  AGGREGATE SUBGRADE IMPROVEMENT, 12"
- INCIDENTAL HOT-MIX ASPHALT SURFACING (2¼")
- XXX-XXX RRWRD SANITARY MANHOLE ID

PLAN: SURVEYED, PLOTTED, PLOTTING CHECKED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, NOTE BOOK, NO., CADD FILE NAME, BY, DATE

PROFILE: SURVEYED, PLOTTED, PLOTTING CHECKED, BM. NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO., BY, DATE

497+97.97 IMPROVEMENT BEGINS

STA 213+32 TO STA 213+39
COMB CC&G TB6.24
(10 FOOT)

214+15.75
-210.00

213+37.75
-210.00

SAMUELSON ROAD

AGGREGATE WEDGE SHOULDER, TYPE B

1½" HMA SURFACE COURSE, MIX "C", N50
¾" LEVELING BINDER (MACHINE METHOD), N50

C.E.

DETECTOR LOOP, SPECIAL (95')

AGGREGATE WEDGE SHOULDER, TYPE B

1½" HMA SURFACE COURSE, MIX "C", N50
¾" LEVELING BINDER (MACHINE METHOD), N50

223+47.80
-120.78

991+37.00 IMPROVEMENT OMISSION BEGINS

220+13.77
-160.00

FRONTAGE ROAD

1150+00 1000+00 995+00 990+00

±22' AC

DETECTOR LOOP, SPECIAL (102')

MATCHLINE STA 210+00

210+00 215+00 220+00 225+00

IL ROUTE 251

14' 33' 22'

COMB CC&G TB6.24
(10 FOOT)

500+00

DETECTOR LOOP, SPECIAL (91')

DETECTOR LOOP, SPECIAL (94')

2150+00 2000+00 1995+00 1990+00

FRONTAGE ROAD

DELROY AVE

YORK AVE

224+96.83
174.79

220+13.77
175.00

214+24.03
249.12

214+09.48
248.86

213+51.03
250.00

AGGREGATE WEDGE SHOULDER, TYPE B

AGGREGATE WEDGE SHOULDER, TYPE B

1½" HMA SURFACE COURSE, MIX "C", N50
¾" LEVELING BINDER (MACHINE METHOD), N50

STA 2000+69 TO STA 214+64
CC&G TB6.24
(5 FOOT)

502+48.65 IMPROVEMENT ENDS

1½" HMA SURFACE COURSE, MIX "F", N70
2¼" HMA BINDER COURSE, IL-19.0, N70

MATCHLINE STA 225+00

N

50 0 50 100
HORIZONTAL SCALE: 1"=50'-0"

FILE NAME = D264D70-sht-Plan-0006.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
PLAN

SHEET NO. 6 OF 8 SHEETS | STA. 210+00 | TO STA. 225+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	42
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ABSENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
ABSENT CHECKED
R.O.W. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

AIRPORT DRIVE

1½" HMA SURFACE COURSE, MIX "F", N70
2¼" HMA BINDER COURSE, IL-19.0, N70

229+09.46
-340.37

229+20.77
-336.24

985+74.80
20.56

985+67.03
IMPROVEMENT OMISSION ENDS

985+00

985+53.93
-28.91

COMB CC&G TB6.24
(10 FOOT)

231+10.63
-160.00

981+68.31
15.00

227+06.97
-160.00

1½" HMA SURFACE COURSE, MIX "C", N50
¾" LEVELING BINDER (MACHINE METHOD), N50

CAPITAL DRIVE

AGGREGATE WEDGE SHOULDER, TYPE B, TYP.

C.E.

FRONTAGE ROAD

980+00

975+00

±22'

981+68.31
-15.00

DETECTOR LOOP, SPECIAL (94')

DETECTOR LOOP, SPECIAL (96')

MATCHLINE STA 225+00

225+00

230+00

235+00

IL ROUTE 251

33'

14'

22'

239+42.91
58.78

1975+00

1980+00

1988+56.31
-14.86

STA 227+46.60 TO STA 227+53.00
COMB CC&G TB6.24
(10 FOOT)

DETECTOR LOOP, SPECIAL (143')

1980+96.68
-12.35

232+52.49
174.45

1985+00

225+45.90
184.76

226+86.30
205.60

231+01.70
218.78

230+19.20
235.58

1981+79.85
-74.95

1981+52.88
-82.83

IMPROVEMENT ENDS 1981+66.80

ROSS LANE

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

1½" HMA SURFACE COURSE, MIX "C", N50
¾" LEVELING BINDER (MACHINE METHOD), N50

MATCHLINE STA 240+00

LEGEND

HOT-MIX ASPHALT SHOULDERS, 2¼"
1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

HOT-MIX ASPHALT SHOULDERS, 6½"
1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
AGGREGATE SUBGRADE IMPROVEMENT, 12"

INCIDENTAL HOT-MIX ASPHALT SURFACING (2¼")

XXX-XXX RRWRD SANITARY MANHOLE ID

N

50 0 50 100
HORIZONTAL SCALE: 1"=50'-0"

FILE NAME = D264D70-sht-Plan-007.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
PLAN

SHEET NO. 7 OF 8 SHEETS | STA. 225+00 | TO STA. 240+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	43
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

HOT-MIX ASPHALT SHOULDERS, 2¼"
1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

HOT-MIX ASPHALT SHOULDERS, 6½"
1½" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
AGGREGATE SUBGRADE IMPROVEMENT, 12"

INCIDENTAL HOT-MIX ASPHALT SURFACING (2¼")

XXX-XXX RRWRD SANITARY MANHOLE ID

PLAN — SURVEYED / PLOTTED / PROJECT CHECKED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / PROJECT CHECKED / BM. NOTED / STRUCTURE NOTATIONS CHKD / NOTE BOOK / NO. / BY / DATE

240+31.05
-160.00

1½" HMA SURFACE COURSE, MIX "C", N50
¾" LEVELING BINDER (MACHINE METHOD), N50

240+74.17
-163.37

241+53.70
-162.27

END WEST FRONTAGE ROAD PROJECT
970+52.96
0.00

C.E.

FRONTAGE ROAD

AC

AGGREGATE WEDGE SHOULDER, TYPE B

241+10.38
-61.75

MATCHLINE STA 240+00

240+00

IL ROUTE 251

245+00

250+00

22'

1½" HMA SURFACE COURSE, MIX "F", N70
2¼" HMA BINDER COURSE, IL-19.0, N70

248+90.94
-77.66

EXISTING EARTH CROSSOVER TO BE REMOVED BY GRADING AND SHAPING TO MEET THE EXISTING LINES AND GRADES. MAXIMUM SLOPE SHALL BE 1:10. AREA IS TO BE PERMANENTLY SEEDED. THIS WORK WILL BE PAID FOR AS:
EARTH EXCAVATION
SEEDING, CLASS 2A
TOPSOIL FURNISH AND PLACE, 4" (235 SQ YD)

US ROUTE 20

254+97.58
-69.90

16'

MATCHLINE STA 255+00

250+07.05
-70.06

GATEWAY ROAD

240+32.09
174.11

FRONTAGE ROAD

1968+00

1½" HMA SURFACE COURSE, MIX "F", N70
2¼" HMA BINDER COURSE, IL-19.0, N70

AGGREGATE WEDGE SHOULDER, TYPE B

1½" HMA SURFACE COURSE, MIX "C", N50
¾" LEVELING BINDER (MACHINE METHOD), N50

1968+02.86
0.00
END EAST FRONTAGE ROAD PROJECT

MATCHLINE STA 255+00

255+00

256+22.07
80.10

1½" HMA SURFACE COURSE, MIX "F", N70
2¼" HMA BINDER COURSE, IL-19.0, N70

256+26.99
0.00
PROJECT ENDS - MAINLINE

50 0 50 100
HORIZONTAL SCALE: 1"=50'-0"

FILE NAME = D264D70-sht-Plan-0008.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
PLAN

SHEET NO. 8 OF 8 SHEETS | STA. 240+00 | TO STA. 255+00

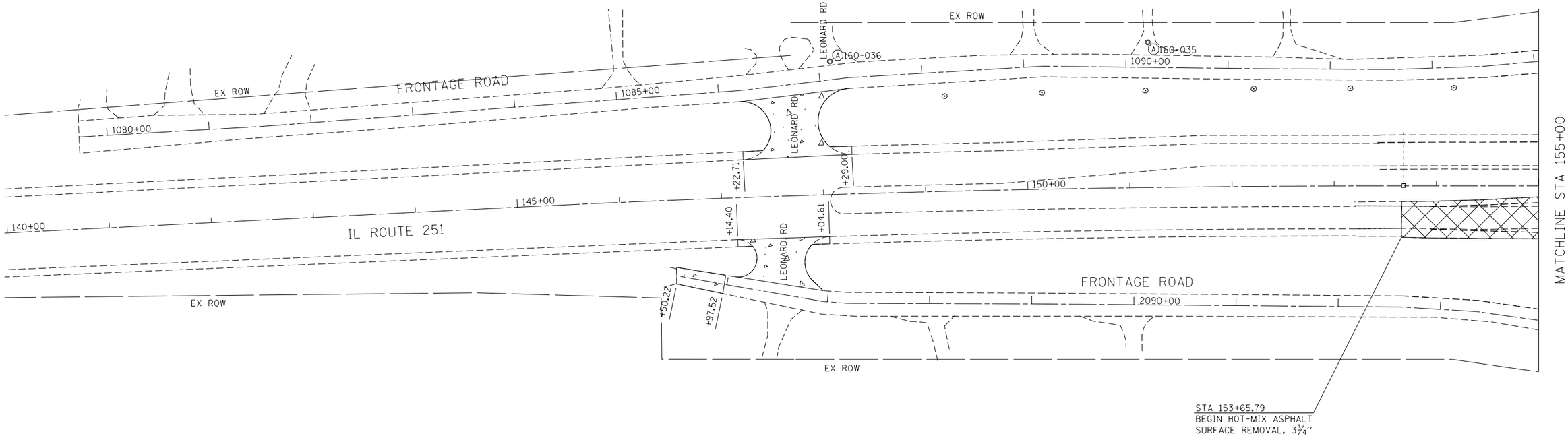
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	44
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

- TREE REMOVAL
- BUTT-JOINT
- LINEAR REMOVAL
- FRAMES, LIDS & INLETS TO BE ADJUSTED OR RECONSTRUCTED
- CLASS B PATCHES
- XXX-XXX RRWRD SANITARY MANHOLE ID
- HOT-MIX ASPHALT SURFACE REMOVAL, 3¾"
- DRIVEWAY PAVEMENT REMOVAL (PAID AS EARTH EXCAVATION - SEE GENERAL NOTE)
- PAVED SHOULDER REMOVAL (8")

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE



50 0 50 100
HORIZONTAL SCALE: 1"=50'-0"

FILE NAME = D264070-sht-Removal-001.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
REMOVAL PLAN

SHEET NO. 1 OF 8 SHEETS | STA. 140+00 | TO STA. 155+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	45
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

- TREE REMOVAL
- LINEAR REMOVAL
- CLASS B PATCHES
- HOT-MIX ASPHALT SURFACE REMOVAL, 3¾''
- DRIVEWAY PAVEMENT REMOVAL (PAID AS EARTH EXCAVATION - SEE GENERAL NOTE)
- PAVED SHOULDER REMOVAL (8'')
- BUTT-JOINT
- (A) FRAMES, LIDS & INLETS TO BE ADJUSTED OR RECONSTRUCTED
- XXX-XXX RRWRD SANITARY MANHOLE ID

PLAN — SURVEYED / PLOTTED / QUANTITIES CHECKED / R.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. ____ / BY / DATE

PROFILE — SURVEYED / PLOTTED / QUANTITIES CHECKED / R.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. ____ / BY / DATE

BLACKHAWK ROAD

EXIST ROW

FRONTAGE ROAD

STA 597+56.97
BEGIN HOT-MIX ASPHALT SURFACE REMOVAL, 3¾''

STA 159+94.36
BEGIN HOT-MIX ASPHALT SURFACE REMOVAL, 3¾''

STA 1101+08.19
END HOT-MIX ASPHALT SURFACE REMOVAL, 3¾''

(A) 160-032

(A) 160-033

1100+00

1105+00

1095+00

+08.19

+53.19

+57.98

+02.99

AC

STA 158+11.45
BEGIN HOT-MIX ASPHALT SURFACE REMOVAL, 3¾''

155+00

160+00

165+00

IL ROUTE 251

MATCHLINE STA 155+00

MATCHLINE STA 170+00

2095+00

2100+00

2105+00

+86.64

+31.66

+11.89

+56.89

A&C

STA 2098+31.66
BEGIN HOT-MIX ASPHALT SURFACE REMOVAL, 3¾''

STA 2101+11.89
END HOT-MIX ASPHALT SURFACE REMOVAL, 3¾''

STA 602+84.75
END HOT-MIX ASPHALT SURFACE REMOVAL, 3¾''

N

50 0 50 100

HORIZONTAL SCALE: 1''=50'-0''

FILE NAME = D264070-sht-Removal-002.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

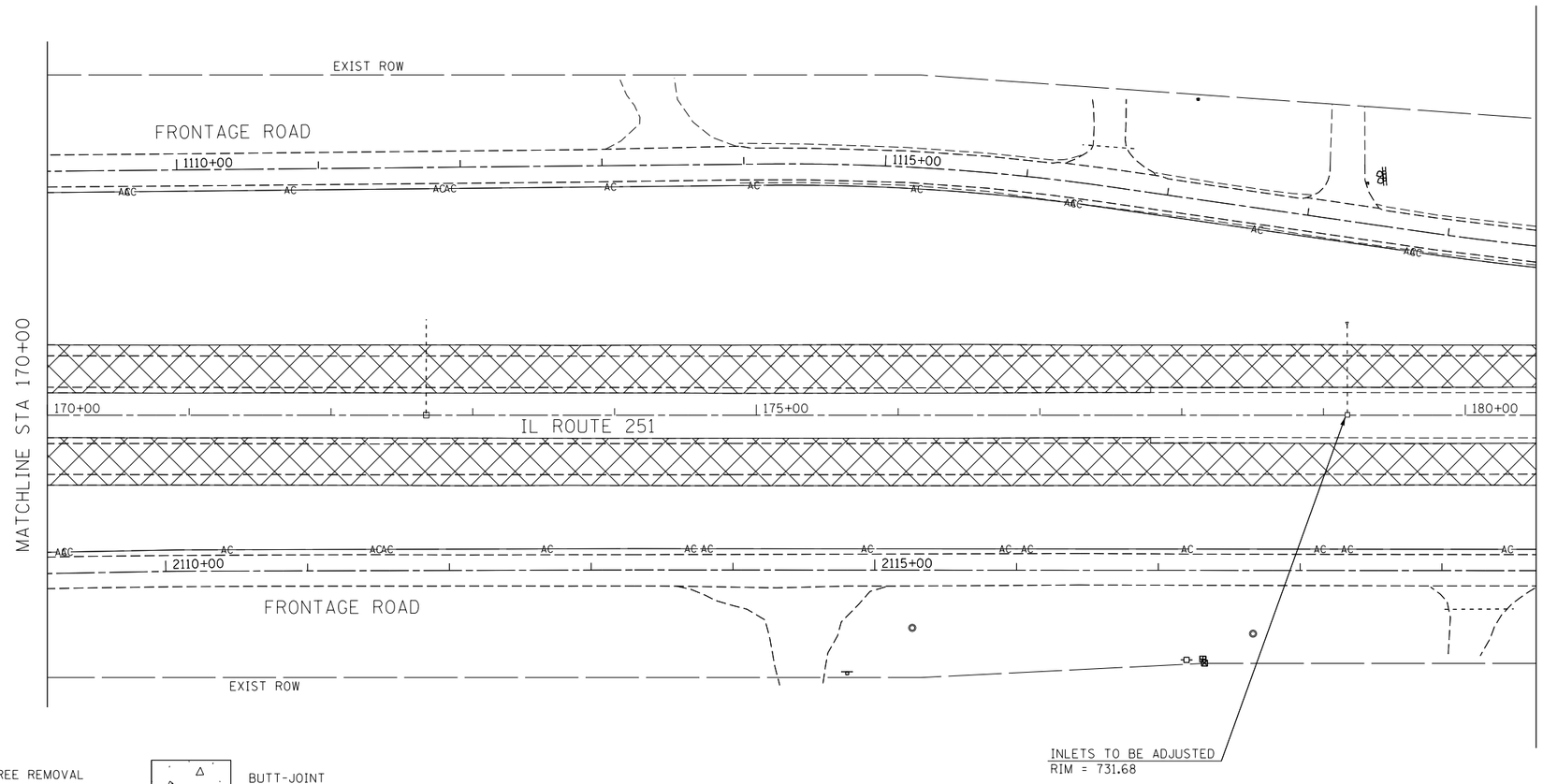
IL. ROUTE 251
REMOVAL PLAN

SHEET NO. 2 OF 8 SHEETS | STA. 155+00 | TO STA. 170+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	46
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
DRAWN
CHECKED
QUANT. CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
DRAWN
CHECKED
QUANT. CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE



LEGEND

- TREE REMOVAL
- LINEAR REMOVAL
- CLASS B PATCHES
- HOT-MIX ASPHALT SURFACE REMOVAL, 3¾''
- DRIVEWAY PAVEMENT REMOVAL (PAID AS EARTH EXCAVATION - SEE GENERAL NOTE)
- PAVED SHOULDER REMOVAL (8'')
- BUTT-JOINT
- (A) FRAMES, LIDS & INLETS TO BE ADJUSTED OR RECONSTRUCTED
- XXX-XXX RRWRD SANITARY MANHOLE ID

N

50 0 50 100
HORIZONTAL SCALE: 1''=50'-0''

FILE NAME = D264070-sht-Removal-003.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
REMOVAL PLAN

SHEET NO. 3 OF 8 SHEETS | STA. 170+00 | TO STA. 180+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	47
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES

ALL STATION / OFFSETS USE IL 251 ALIGNMENT

CLASS B PATCHING SHALL BE DONE IN ACCORDANCE WITH THE PAVEMENT PATCHING DETAIL.

LEGEND

- TREE REMOVAL
- BUTT-JOINT
- LINEAR REMOVAL
- FRAMES, LIDS & INLETS TO BE ADJUSTED OR RECONSTRUCTED
- CLASS B PATCHES
- XXX-XXX RRWRD SANITARY MANHOLE ID
- HOT-MIX ASPHALT SURFACE REMOVAL, 3¾''
- DRIVEWAY PAVEMENT REMOVAL (PAID AS EARTH EXCAVATION - SEE GENERAL NOTE)
- PAVED SHOULDER REMOVAL (8'')

MILFORD AVENUE

1123+99.92
-13.87

1123+53.43
-57.56

1123+21.11
-55.33

TEMP. EASE.

PR ROW

STA 1123+10.15 TO STA 1123+67.10
PIPE CULVERT REMOVAL
(24'' CMP, 58')
(PAID AS EARTH EXCAVATION - SEE GENERAL NOTE)

STA 1123+13.64 TO STA 1125+28.79
GUARDRAIL REMOVAL
(215')

STA 1123+78.28 TO STA 1124+74.78
GUARDRAIL REMOVAL (119')

1124+55.54
-81.61

REMOVAL OF EXISTING STRUCTURE NO. 1 (S.N. 101-2002)
SEE STRUCTURAL DRAWINGS

STA 1124+54 TO STA 1124+66
CURB AND GUTTER REMOVAL
(27')

1124+99.75
-70.15

STA 1124+69.13 TO STA 1125+13.39
PIPE CULVERT REMOVAL
(2-36'' CMP, 45')
(PAID AS EARTH EXCAVATION - SEE GENERAL NOTE)

STA 1125+02.77 TO STA 1125+16.73
GUARDRAIL REMOVAL (41')

1125+34.90
-13.68

STA 1126+03.73 TO STA 1126+16.61
GUARDRAIL REMOVAL (41')

1127+16.80
-51.91

STA 1126+96.85 TO STA 1127+59.56
PIPE CULVERT REMOVAL
(2-36'' CMP, 62')
(PAID AS EARTH EXCAVATION - SEE GENERAL NOTE)

1127+38.43
-51.88

STA 1126+38.60 TO STA 1126+50.04
GUARDRAIL REMOVAL (41')

131+57

EXIST ROW

FRONTAGE ROAD

1120+00 | 1125+00 | 1130+00

1122+83.29
-13.66

1123+80.02

1124+68.71

1124+49.40
-13.22

1126+96.25
-14.08

1127+60.70
-14.02

MATCHLINE STA 180+50

182+86.16

185+00 | 190+00 | 195+00

186+66.41

IL ROUTE 251

184+78.14

185+69.04

2124+02.58

2120+00 | 2125+00 | 2130+00

2123+25.76
11.99

2124+91.34

165-002

165-001
165-022

165-065

165-066

165-067

FRONTAGE ROAD

EXIST ROW

PR ROW

STA 182+51.96 TO STA 185+03.95
GUARDRAIL REMOVAL
(252')

STA 183+27.63 TO STA 185+03.90
GUARDRAIL REMOVAL
(176')

STA 185+35.72 TO STA 187+25.32
GUARDRAIL REMOVAL
(190')

STA 185+35.99 TO STA 187+88.15
GUARDRAIL REMOVAL
(252')

2123+82.25
11.73

REMOVAL OF EXISTING STRUCTURE NO. 2 (S.N. 101-0009)
SEE STRUCTURAL DRAWINGS

INLETS TO BE ADJUSTED
RIM = 729.58

INLETS TO BE ADJUSTED
RIM = 728.92

INLETS TO BE ADJUSTED
RIM = 729.66

STA 2123+53.728 TO STA 2125+56.42
GUARDRAIL REMOVAL
(204')

STA 2123+29.39 TO STA 2123+81.98
NO. 5
PIPE CULVERT REMOVAL
(30'' RCP, 53')

2123+48.04
65.05

2123+71.68
65.10

STA 2125+53.72 TO STA 2125+19.38
GUARDRAIL REMOVAL
(142')

REMOVAL OF EXISTING STRUCTURE NO. 3 (S.N. 101-0010)
SEE STRUCTURAL DRAWINGS

REMOVAL OF EXISTING STRUCTURE NO. 4 (S.N. 101-2001)
SEE STRUCTURAL DRAWINGS

MATCHLINE STA 195+50

N

50 0 50 100
HORIZONTAL SCALE: 1''=50'-0''

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO.

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO.

BY | DATE

FILE NAME = 0264D70-sht-Removal-004.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
REMOVAL PLAN

SHEET NO. 4 OF 8 SHEETS | STA. 180+50 | TO STA. 195+50

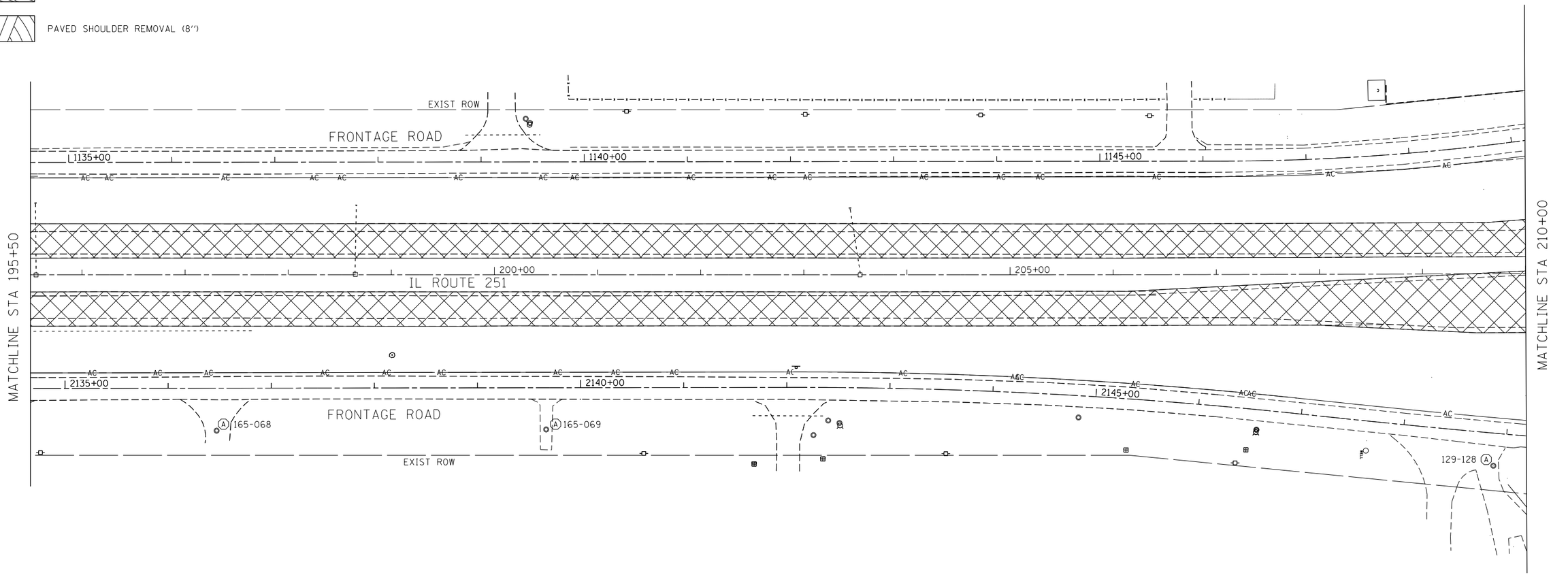
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	48
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

- TREE REMOVAL
- LINEAR REMOVAL
- CLASS B PATCHES
- HOT-MIX ASPHALT SURFACE REMOVAL, 3¾"
- DRIVEWAY PAVEMENT REMOVAL (PAID AS EARTH EXCAVATION - SEE GENERAL NOTE)
- PAVED SHOULDER REMOVAL (8")
- BUTT-JOINT
- (A) FRAMES, LIDS & INLETS TO BE ADJUSTED OR RECONSTRUCTED
- XXX-XXX RRWRD SANITARY MANHOLE ID

PLAN: SURVEYED | PLOTTED | DRAWN | CHECKED | NOTE BOOK | NO. | BY | DATE

PROFILE: SURVEYED | PLOTTED | DRAWN | CHECKED | BM. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO. | BY | DATE



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HORIZONTAL SCALE: 1"=50'-0"

FILE NAME = D264D70-sht-Removal-005.dgn

KNIGHT
Engineers & Architects

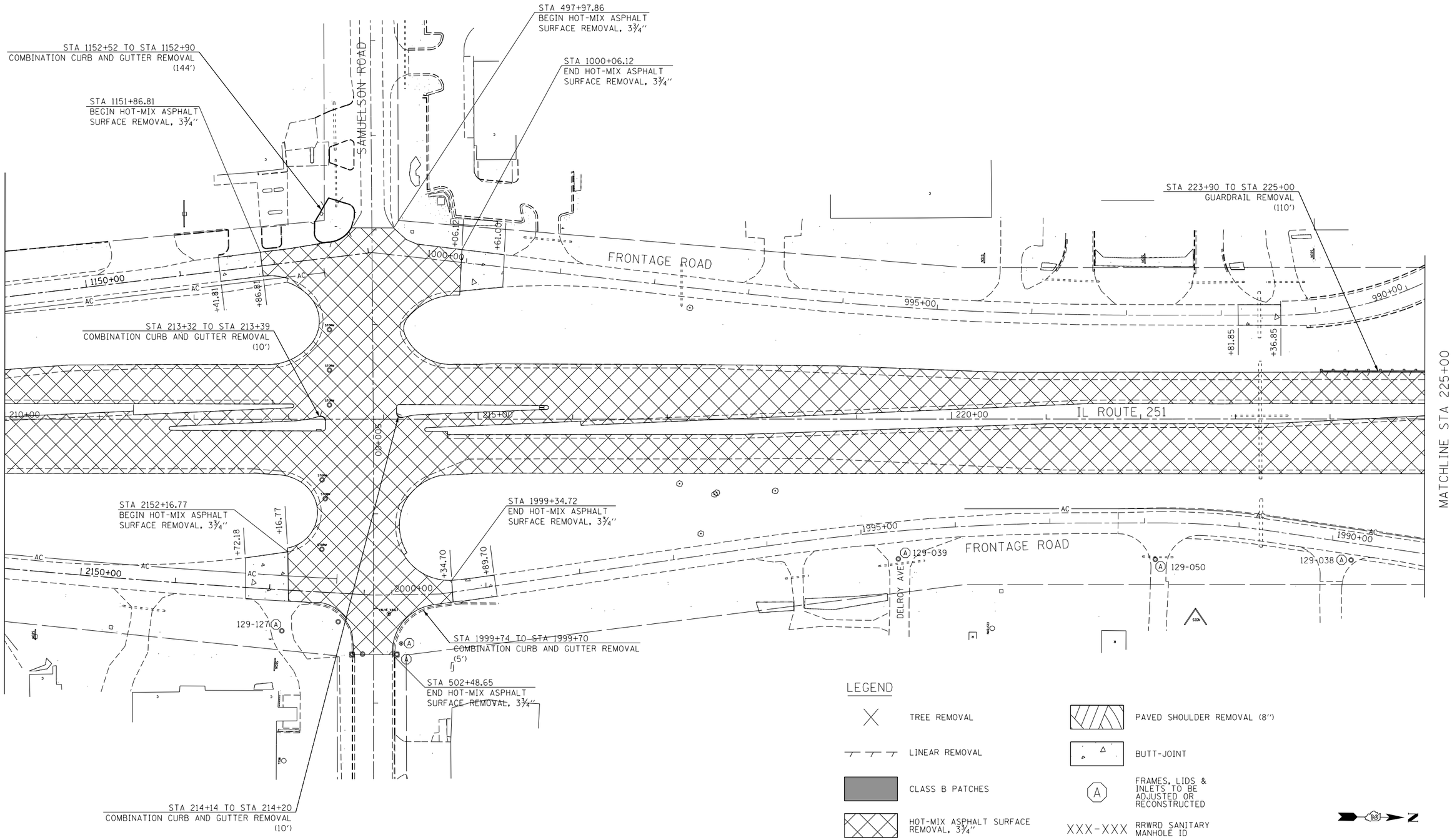
DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
REMOVAL PLAN

SHEET NO. 5 OF 8 SHEETS | STA. 195+50 | TO STA. 210+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	49
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN — SURVEYED / PLOTTED / QUANTITY CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / QUANTITY CHECKED / BM. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY / DATE

FILE NAME = D264D70-sht-Removal-005.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
REMOVAL PLAN

SHEET NO. 6 OF 8 SHEETS | STA. 210+00 | TO STA. 225+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	50
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STA 225+00 TO STA 226+70
GUARDRAIL REMOVAL
(170')

STA 227+47 TO STA 227+53
COMBINATION CURB AND GUTTER REMOVAL
(10')

STA 984+04 TO STA 984+14
COMBINATION CURB AND GUTTER REMOVAL
(10')

AIRPORT DRIVE

CAPITAL DRIVE

FRONTAGE ROAD

IL ROUTE 251

ROSS LANE

MATCHLINE STA 225+00

MATCHLINE STA 240+00

STA 1987+71.84
BEGIN HOT-MIX ASPHALT
SURFACE REMOVAL, 3¾"

STA 1985+00.40
END HOT-MIX ASPHALT
SURFACE REMOVAL, 3¾"

1981+79.85
74.95

1981+52.88
82.83

STA 239+42.91
66.75

LEGEND

- TREE REMOVAL
- LINEAR REMOVAL
- CLASS B PATCHES
- HOT-MIX ASPHALT SURFACE REMOVAL, 3¾"
- DRIVEWAY PAVEMENT REMOVAL (PAID AS EARTH EXCAVATION - SEE GENERAL NOTE)
- PAVED SHOULDER REMOVAL (8")
- BUTT-JOINT
- (A) FRAMES, LIDS & INLETS TO BE ADJUSTED OR RECONSTRUCTED
- XXX-XXX RRWRD SANITARY MANHOLE ID

HORIZONTAL SCALE: 1"=50'-0"

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, PROFILE CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = D264070-sht-Removal-007.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
REMOVAL PLAN

SHEET NO. 7 OF 8 SHEETS | STA. 225+00 | TO STA. 240+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	51
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

- TREE REMOVAL
- BUTT-JOINT
- LINEAR REMOVAL
- (A) FRAMES, LIDS & INLETS TO BE ADJUSTED OR RECONSTRUCTED
- CLASS B PATCHES
- XXX-XXX RRWRD SANITARY MANHOLE ID
- HOT-MIX ASPHALT SURFACE REMOVAL, 3¾''
- DRIVEWAY PAVEMENT REMOVAL (PAID AS EARTH EXCAVATION - SEE GENERAL NOTE)
- PAVED SHOULDER REMOVAL (8'')

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
PROFILE CHECKED
BM. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
BY
DATE

MATCHLINE STA 240+00

MATCHLINE STA 255+00

240+00 | 245+00 | 250+00

IL ROUTE 251

US ROUTE 20

STA 241+10.38
-69.68

+52.86

+74.92

SCRUB

AC

AC

248+90.94
-77.66

254+97.58
-69.90

250+07.05
-70.06

GATEWAY ROAD

FRONTAGE ROAD

STA 1970+00

+47.85

+62.86

STA 256+26.99
END HOT-MIX ASPHALT
SURFACE REMOVAL, 3¾''

255+00

256+22.07
80.10

STA 256+26.99
END HOT-MIX ASPHALT
SURFACE REMOVAL, 3¾''

N

50 0 50 100
HORIZONTAL SCALE: 1''=50'-0''

FILE NAME = D264D70-sht-Removal-008.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
REMOVAL PLAN

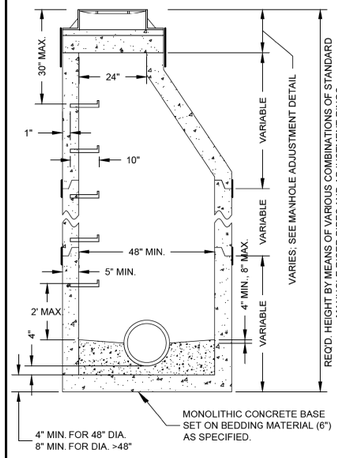
SHEET NO. 8 OF 8 SHEETS | STA. 240+00 | TO STA. 256+26.99

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	52
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN | NOTE BOOK NO. ____ | SURVEYED | PLOTTED | CHECKED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | BY | DATE

PROFILE | NOTE BOOK NO. ____ | SURVEYED | PLOTTED | CHECKED | B.M. NOTED | STRUCTURE NOTATNS CHKD | BY | DATE

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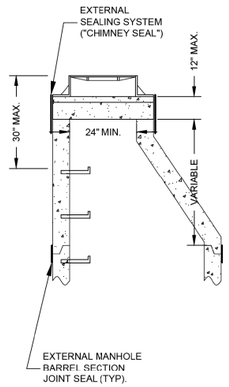


NOTES:
1. THE MAX. DROP FROM THE INVERT OF ANY PIPE TO THE CONCRETE CHANNEL UNDER THAT PIPE SHALL BE 8".
2. MANHOLES LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY SHALL BE MARKED WITH A STEEL FENCE POST AS DIRECTED.
3. ALL NEW MANHOLES SHALL BE VACUUM TESTED PER A.S.T.M. C-1244 PRIOR TO ACCEPTANCE.
4. ALL BARREL JOINTS SHALL BE SEALED WITH 3 $\frac{1}{4}$" x $\frac{3}{8}$" BITUMINOUS MATERIAL ON THE LOWER SHIPLAP.
5. ALL BARREL JOINTS SHALL BE SEALED WITH AN EXTERNAL BARREL SEAL CENTERED ON THE JOINT (MAR MAC MAC WRAP OR EQ.)
6. MANHOLE STRUCTURE SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE MANHOLE RISER SECTIONS IN ACCORDANCE WITH A.S.T.M. C478-90 OR THE LATEST DESIGNATION.
7. PRECAST FLAT TOPS ARE NOT APPROVED FOR USE.
8. SEE *'MANHOLE ADJUSTMENT DETAIL'* FOR ADJUSTMENT REQUIREMENTS.
9. PIPE CONNECTIONS TO NEW MANHOLES SHALL BE MADE BY MEANS OF EITHER RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM F-477 CAST INTEGRALLY IN MANHOLE WALL, OR RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923. FOR PIPE CONNECTIONS WITH A DEPTH OF >20 FT., A RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM F-477 CAST INTEGRALLY IN MANHOLE WALL SHALL BE USED.
10. PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE BY MEANS OF CORE DRILLING MANHOLE WALL AND INSTALLING RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923.

STANDARD MANHOLE DETAIL
(*MANHOLE ADJUSTMENT DETAIL* SHALL APPLY)

rev. 3-20-18

NOTES:
1. MANHOLE FRAME & LID SHALL BE NEENAH R-1670 OR EAST JORDAN E-1117 WITH NON-ROCKING & SELF-SEALING LID.
2. LID SHALL HAVE 2" HIGH "SANITARY" LETTERING & A CONCEALED PICK HOLE.
3. ALL ADJUSTMENT RING JOINTS SHALL BE SEALED WITH (2) 1" BEADS OF APPROVED BITUMINOUS MATERIAL, INCLUDING FRAME TO CONCRETE JOINT.
4. NO TARRING OR GROUTING IS ALLOWED ON THE INSIDE OF MANHOLE OR ADJUSTMENT JOINTS.
5. 2" RINGS ALLOWED ONLY IN THE CITY OF ROCKFORD RIGHT-OF-WAY; ALL OTHER 2" RINGS SHALL BE RRWRD APPROVED RUBBER ADJUSTING RING.
6. ONLY (1) 2" RING ALLOWED PER MANHOLE. MAXIMUM ADJUSTMENT IS 12". MINIMUM ADJUSTMENT IS 4" UNLESS OFF-ROAD OR IN CURB & GUTTER ROADWAY.
7. WHEN A FRAME REQUIRES PITCHING, A MIN. OF 3 SHIMS EQUALLY SPACED SHALL BE INSTALLED BETWEEN THE FRAME AND CONCRETE AND HYDRAULIC CEMENT SHALL BE USED TO FILL THE VOID BETWEEN THE FRAME & CONCRETE.
8. FLAT-TOPS ARE NOT PERMITTED ON 4' OR 5' DIA. MANHOLES.
9. REPLACEMENT OF EXISTING BARREL SECTIONS MAY BE REQUIRED TO MEET THE ABOVE REQUIREMENTS.



MANHOLE ADJUSTMENT DETAIL
(FOR ADJUSTMENT OF BOTH NEW & EXISTING MANHOLES)

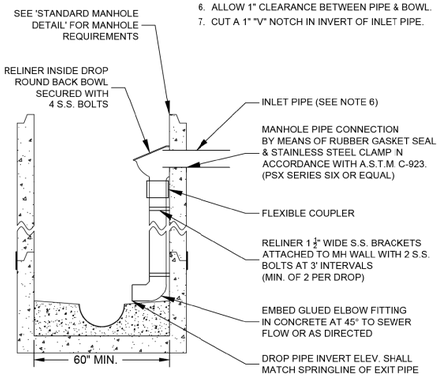
rev. 3-20-18

DROP BOWL & DROP PIPE SIZING

INLET PIPE DIA.	DROP PIPE DIA. (MIN.)
4-6 INCH	4 INCH
8 INCH	6 INCH
10 INCH	8 INCH
>10 INCH	*

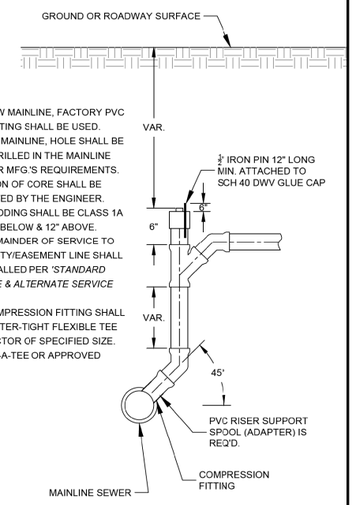
* PER MFG. OR AS DIRECTED BY RRWRD

NOTES:
1. INSIDE DROP TYPE MANHOLES SHALL BE 5' MIN. INSIDE DIA.
2. ALL INSIDE DROP TYPE CONNECTIONS FOR SERVICES AND COLLECTOR SEWERS SHALL USE THE DROP AS PRODUCED BY RELINER-DURAN INC. OR EQUAL.
3. SEE TABLE FOR DROP BOWL AND DROP PIPE SIZES.
4. ALL INSIDE DROP PIPING SHALL BE PVC SDR35 ASTM-D3034.
5. ATTACH THE ROUND BACK DROP BOWL & EACH CLAMPING BRACKET TO THE MANHOLE WALL WITH $\frac{3}{8}$" x 1" MIN. S.S. BOLTS AND EPOXY IMPREGNATED LUGS PER MFG. RECOMMENDATION.
6. ALLOW 1" CLEARANCE BETWEEN PIPE & BOWL.
7. CUT A 1" "V" NOTCH IN INVERT OF INLET PIPE.



INSIDE DROP MANHOLE DETAIL
(*STANDARD MANHOLE DETAIL* SHALL APPLY)

rev. 3-20-18

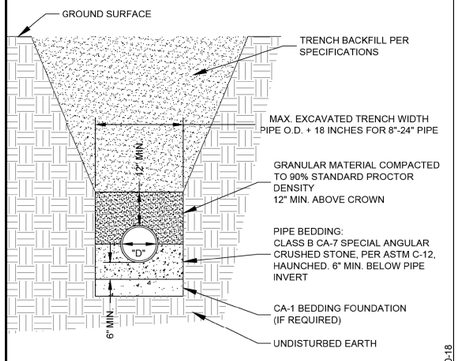


NOTES:
1. FOR NEW MAINLINE, FACTORY PVC WYE FITTING SHALL BE USED.
2. FOR EX. MAINLINE, HOLE SHALL BE CORE DRILLED IN THE MAINLINE PIPE PER MFG.'S REQUIREMENTS. LOCATION OF CORE SHALL BE APPROVED BY THE ENGINEER.
3. PIPE BEDDING SHALL BE CLASS 1A OR B, 6" BELOW & 12" ABOVE.
4. THE REMAINDER OF SERVICE TO PROPERTY/EASEMENT LINE SHALL BE INSTALLED PER *'STANDARD SERVICE & ALTERNATE SERVICE DETAIL'*.
5. THE COMPRESSION FITTING SHALL BE A WATER-TIGHT FLEXIBLE TEE CONNECTOR OF SPECIFIED SIZE. (INSERT-A-TEE OR APPROVED EQUAL.

VERTICAL SERVICE RISER DETAIL
(FOR MAINLINE DIA. 8" - 18")

rev. 3-20-18

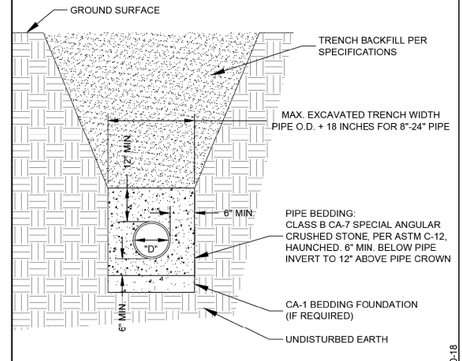
NOTES:
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
2. LOOSE MATERIAL TO BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.



RIGID PIPE BEDDING DETAIL

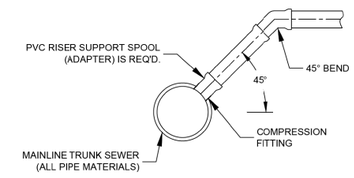
rev. 3-20-18

NOTES:
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
2. LOOSE MATERIAL TO BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.



FLEXIBLE PIPE BEDDING DETAIL

rev. 3-20-18

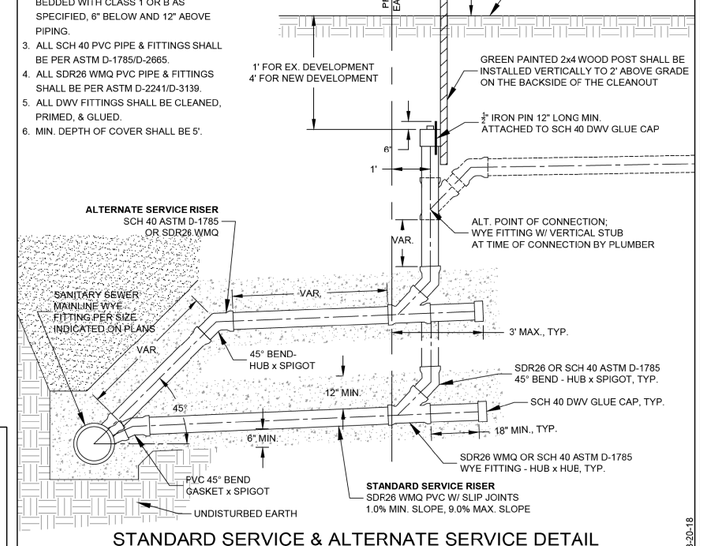


NOTES:
1. HOLE SHALL BE CORE DRILLED IN THE MAINLINE PIPE PER MFG.'S REQUIREMENTS.
2. LOCATION OF CORE SHALL BE APPROVED BY THE ENGINEER.
3. PIPE BEDDING SHALL BE CLASS 1A OR B, 6" BELOW & 12" ABOVE.
4. THE REMAINDER OF SERVICE TO PROPERTY/EASEMENT LINE SHALL BE INSTALLED PER *'STANDARD SERVICE & ALTERNATE SERVICE DETAIL'*.
5. THE COMPRESSION FITTING SHALL BE A WATER-TIGHT FLEXIBLE TEE CONNECTOR OF SPECIFIED SIZE. (INSERT-A-TEE OR APPROVED EQUAL.

SERVICE CONNECTION DETAIL FOR CONNECTION TO 18" DIA. OR LARGER PIPE

rev. 3-20-18

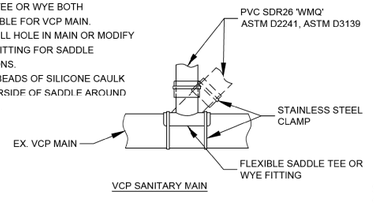
NOTES:
1. SANITARY SEWER MAINLINE SHALL BE INSTALLED PER *'FLEXIBLE PIPE BEDDING DETAIL'*.
2. SANITARY SERVICE PIPING SHALL BE BEDDED WITH CLASS 1 OR B AS SPECIFIED, 6" BELOW AND 12" ABOVE PIPING.
3. ALL SCH 40 PVC PIPE & FITTINGS SHALL BE PER ASTM D-1785/D-2665.
4. ALL SDR26 WMQ PVC PIPE & FITTINGS SHALL BE PER ASTM D-2241/D-3139.
5. ALL DWV FITTINGS SHALL BE CLEANED, PRIMED, & GLUED.
6. MIN. DEPTH OF COVER SHALL BE 5'.



STANDARD SERVICE & ALTERNATE SERVICE DETAIL
(FOR MAINLINE DIA. 8" - 18")

rev. 3-20-18

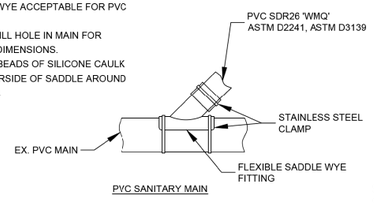
NOTES:
1. SADDLE TEE OR WYE BOTH ACCEPTABLE FOR VCP MAIN.
2. CORE DRILL HOLE IN MAIN OR MODIFY EX. VCP FITTING FOR SADDLE DIMENSIONS.
3. APPLY 2 BEADS OF SILICONE CAULK TO UNDERSIDE OF SADDLE AROUND OPENING.



FLEXIBLE SADDLE CONNECTION DETAIL

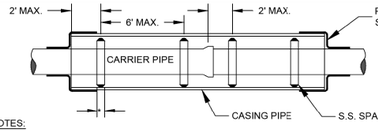
rev. 3-20-18

NOTES:
1. SADDLE WYE ACCEPTABLE FOR PVC MAIN.
2. CORE DRILL HOLE IN MAIN FOR SADDLE DIMENSIONS.
3. APPLY 2 BEADS OF SILICONE CAULK TO UNDERSIDE OF SADDLE AROUND OPENING.



FLEXIBLE SADDLE CONNECTION DETAIL

rev. 3-20-18



NOTES:
* 8" MIN. WIDTH FOR CARRIER PIPE < 48" DIA.
12" MIN. WIDTH FOR CARRIER PIPE ≥ 48" DIA.
1. CASING END SEALS & SPACERS SHALL BE AS MFG. BY CASCADE MFG., OR APPROVED EQUAL.
2. FOR FLEXIBLE CARRIER PIPE, SPACING OF SPACERS TO BE AS SHOWN AT A MINIMUM, OR BY MFG.'S RECOMMENDATION.
3. FOR RIGID CARRIER PIPE, SPACING SHALL BE PER MFG.'S RECOMMENDATION.

CASING & SPACER DETAIL

rev. 3-20-18

Rock River Water Reclamation District

ROCK RIVER WATER RECLAMATION DISTRICT
STANDARD DETAILS
(NOT TO SCALE)
3501 KISHWAUKEE ST. P.O. BOX 7480
ROCKFORD, ILLINOIS 61109 PH. (815) 387-7660

KNIGHT
Engineers & Architects

	DESIGNED - DJC	REVISED -	
	DRAWN - DJC	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RRWRD STANDARD DETAILS

SHEET NO. OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	53
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN
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PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CHKD
NOTE BOOK
NO.
BY
DATE

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A MINIMUM OF ONE 11' THROUGH TRAFFIC LANES IN EACH DIRECTION ON IL ROUTE 251, EXCEPT AS OTHERWISE INDICATED ON THE PLANS. OFF-PEAK PERIOD LANE CLOSURES WILL BE ALLOWED FOR CONSTRUCTION ACTIVITY ONLY AS APPROVED BY THE ENGINEER. SEE SPECIAL PROVISIONS FOR ALLOWABLE OFF-PEAK PERIOD LANE CLOSURE TIMES.

2. THE CONTRACTOR SHALL PROVIDE ALL SIGNS, VERTICAL PANELS, TYPE III BARRICADES, CHANNELIZATION DRUMS, TYPE II BARRICADES, ALL TEMPORARY CONCRETE BARRIERS AND PROTECTION NECESSARY FOR WORK ZONE TRAFFIC CONTROL AND PROTECTION, OR AS DIRECTED BY THE ENGINEER.

3. THE CONTRACTOR SHALL INSTALL AND MAINTAIN PROPOSED AND TEMPORARY DRAINAGE SYSTEMS, AND EROSION CONTROL MEASURES DURING STAGE CONSTRUCTION THROUGHOUT THE DURATION OF THE PROJECT. THIS WORK SHALL BE INCLUDED IN THE COST OF THE PAY ITEMS ASSOCIATED WITH THE APPLICABLE DRAINAGE SYSTEMS AND EROSION CONTROL MEASURES. SEE EROSION CONTROL PLANS.

4. THE CONTRACTOR SHALL USE TEMPORARY PAVEMENT MARKING ON SURFACES TO BE REMOVED AND IN AREAS THAT DO NOT CONFLICT WITH OTHER STAGES. DURING ALL WINTER STAGING MONTHS (NOVEMBER 1 - APRIL 1) PAVEMENT MARKINGS SHALL BE OF THE TYPE SPECIFIED IN THE "PAVEMENT MARKING" SPECIAL PROVISION. THE PLACEMENT AND REMOVAL OF PAVEMENT MARKINGS FOR WINTER MONTHS SHALL BE PAID FOR AT THE CONTRACT UNIT COST FOR TEMPORARY PAVEMENT MARKING AND TEMPORARY PAVEMENT MARKING REMOVAL OF THE SIZE SPECIFIED ON THE PLANS.

5. 4 INCH SOLID WHITE PAVEMENT MARKING LINES SHALL BE USED TO DEFINE THE OUTSIDE EDGE LINE.

6. 4 INCH SOLID YELLOW PAVEMENT MARKING LINE SHALL BE USED TO DEFINE THE INSIDE EDGE LINE.

7. ALL DOUBLE YELLOW CENTERLINE MARKING LINES SHALL BE SPACED AT 12 INCHES CENTER TO CENTER.

8. 6 INCH SOLID WHITE PAVEMENT MARKING LINES ARE TO BE USED TO DEFINE TURN LANES.

9. 12 INCH SOLID YELLOW PAVEMENT MARKING LINES ARE TO BE USED FOR TEMPORARY FLUSH MEDIAN DIAGONAL LINES AT LOCATIONS AS SHOWN ON THE PLANS.

10. 24 INCH SOLID WHITE PAVEMENT MARKING LINES ARE TO BE USED FOR STOP BARS.

11. ALL DRUMS, VERTICAL PANELS, AND TYPE II BARRICADES (IF REQUIRED) SHALL BE EQUIPPED WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS ON MULTILANE ROADWAYS, WHILE BI-DIRECTIONAL LIGHTS ARE REQUIRED ON ALL, TWO-WAY, TWO-LANE ROADWAYS.

12. ALL DRUMS, VERTICAL PANELS, AND TYPE II BARRICADES SHALL BE SPACED AT 40 FEET CENTER TO CENTER THROUGHOUT THE WORK ZONE, EXCEPT IN TAPER AREAS, GORE AREAS, AND ALONG CORNER RADII, WHERE THEY SHALL BE SPACED AT 20 FEET CENTER TO CENTER EXCEPT AS OTHERWISE INDICATED ON THE PLANS.

13. TYPE II BARRICADES SHALL BE USED IN LIEU OF DRUMS IN LOCATIONS WHERE TYPE II MUST BE PLACED IN EXCAVATED AREAS DUE TO LIMITED SPACE. THESE BARICADES SHALL HAVE LEG EXTENSIONS INSTALLED SUCH THAT THE TOP OF THE BARRICADE IS IN COMPLIANCE WITH IDOT HIGHWAY STANDARD 701901. DRUMS AND BARRICADES SHALL NOT BE PLACED TOGETHER WITHIN AN INDIVIDUAL RUN OF DEVICES.

14. TEMPORARY CONCRETE BARRIERS SHALL BE EQUIPPED WITH TYPE "C" REFLECTORS, IN ACCORDANCE WITH HIGHWAY STANDARD 704001 SPACED AT 25' CENTERS.

15. ALL CONSTRUCTION WARNING SIGNS SHALL BE BLACK LEGEND ON ORANGE BACKGROUND.

16. ALL CONSTRUCTION WARNING SIGN DIMENSIONS SHALL BE 48" X 48", EXCEPT AS OTHERWISE STATED ON THE PLANS.

17. ALL "ROAD CONSTRUCTION AHEAD" WARNING SIGNS SHALL BE EQUIPPED WITH HIGH INTENSITY MONO-DIRECTIONAL FLASHING LIGHTS.

18. ALL EXISTING SIGNS (i.e. STREET NAME SIGNS, ADVANCE STREET NAME SIGNS, ROUTE MARKERS, ETC.) SHALL BE MAINTAINED AND VISIBLE TO TRAFFIC DURING CONSTRUCTION.

19. EXISTING AND TEMPORARY TRAFFIC/GUIDE SIGNS IN CONFLICT WITH STAGING SHALL BE COVERED AS INDICATED ON THE MAINTENANCE OF TRAFFIC PLANS AND/OR AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT COST FOR TRAFFIC CONTROL AND PROTECTION, OF THE STANDARD SPECIFIED.

20. DIRECTION INDICATOR BARRICADES SHALL BE USED AT LANE CLOSURE TAPER LOCATIONS FOR ROADWAYS WITH SPEEDS GREATER THAN OR EQUAL TO 45 MPH OR AS OTHERWISE DIRECTED BY THE ENGINEER.

21. TEMPORARY CONCRETE BARRIER SHALL BE CONTINUOUSLY PINNED TO THE PAVEMENT WHEREVER A 37 INCH CLEAR ZONE (FREE OF DROP-OFFS, FIXED OBJECTS, OR OTHER OBSTACLES) CANNOT BE PROVIDED FOR BEHIND THE BARRIER. THIS WORK SHALL BE PAID FOR SEPARATELY AT THE CONTRACT UNIT PRICE FOR PINNING TEMPORARY CONCRETE BARRIER.

22. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE TO THE MAINTENANCE OF TRAFFIC PLAN.

23. EXISTING OR TEMPORARY PAVEMENT MARKINGS REMOVED AS A RESULT OF PAVEMENT REMOVAL WILL NOT BE PAID FOR SEPARATELY.

24. BARRIER WALL OFFSETS SHOWN ARE TO CENTERLINE OF THE WALL.

25. RELOCATE TEMPORARY IMPACT ATTENUATORS SHALL INCLUDE STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE DEVICE IS NOT NEEDED FOR A TIME, AS SHOWN ON THE STAGING PLANS. THIS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FROM 'IMPACT ATTENUATORS, RELOCATE, OF THE TYPE SPECIFIED'.

26. WHEN RELOCATE TEMPORARY CONCRETE BARRIER IS SPECIFIED, THE WALL SHALL BE REMOVED, STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE WALL IS NOT NEEDED FOR A TIME AS SHOWN ON THE STAGING PLANS, RELOCATED AND REINSTATED AT THE NEW LOCATION. THE REINSTALLATION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR A NEW INSTALLATION. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR 'RELOCATE TEMPORARY CONCRETE BARRIER'.

27. THE TEMPORARY CONCRETE BARRIER SHALL BE PINNED TO THE PAVEMENT WITH 3 ANCHOR PINS PER SECTION ON THE TRAFFIC SIDE OF THE BARRIER WALL AT THE FOLLOWING LOCATIONS:

    STAGE 3 FROM STATION 184+32 TO STATION 185+67

    THE BARRIER UNIT AT EACH END SHALL BE ANCHORED AS SPECIFIED IN ARTICLE 704.04. ALL ANCHORING AND PINNING HOLES SHALL BE CORE DRILLED.

FILE NAME = D264870-sht-General Notes.dgn

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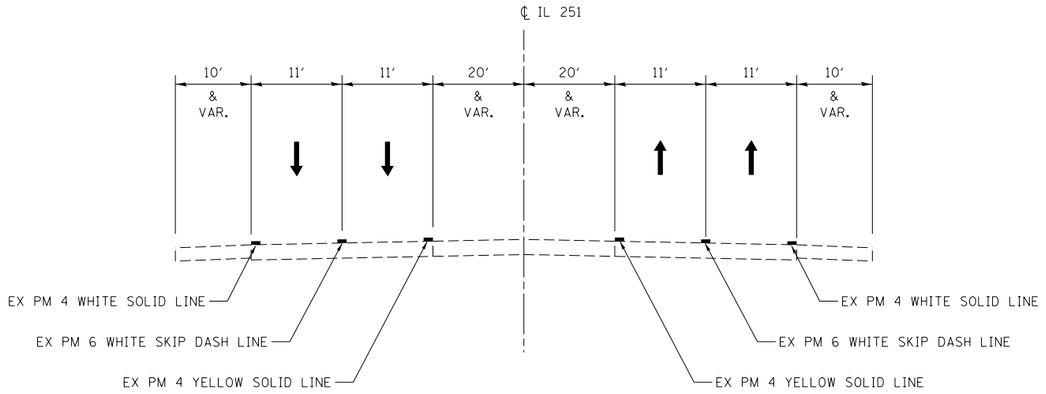
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DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC GENERAL NOTES

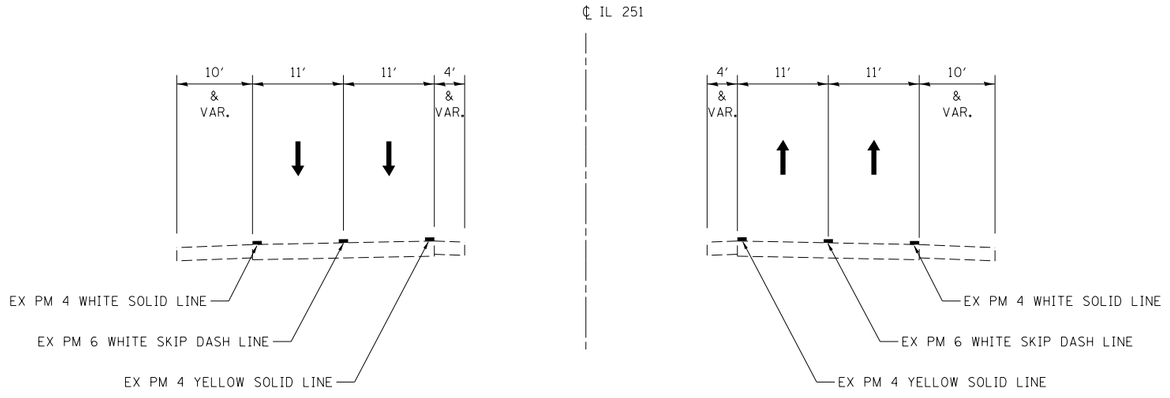
SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	54
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING CONDITIONS

IL ROUTE 251
STA. 137+45 TO STA. 148+07



EXISTING CONDITIONS

IL ROUTE 251
STA. 148+07 TO STA. 205+43

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DATE

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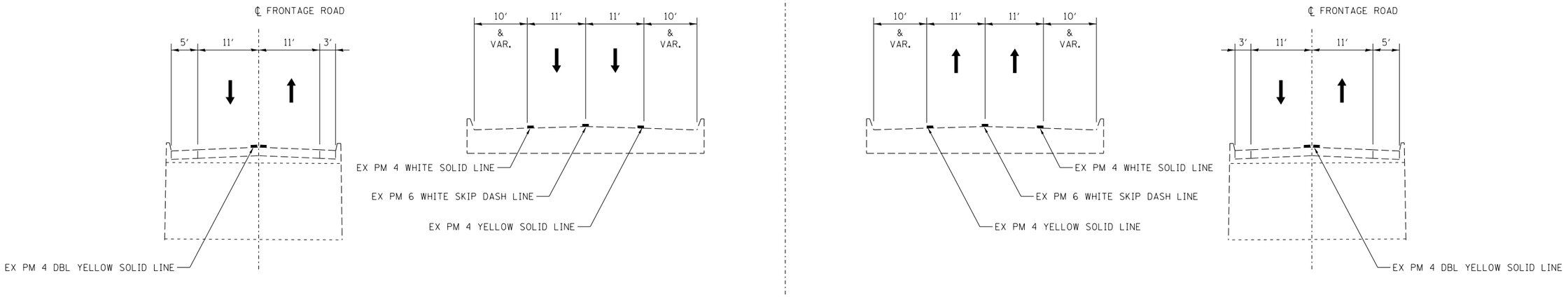
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DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS – IL ROUTE 251

SHEET NO. 1 OF 8 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	55
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING CONDITIONS

IL ROUTE 251
BRIDGE SECTION
STA 185+21

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DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

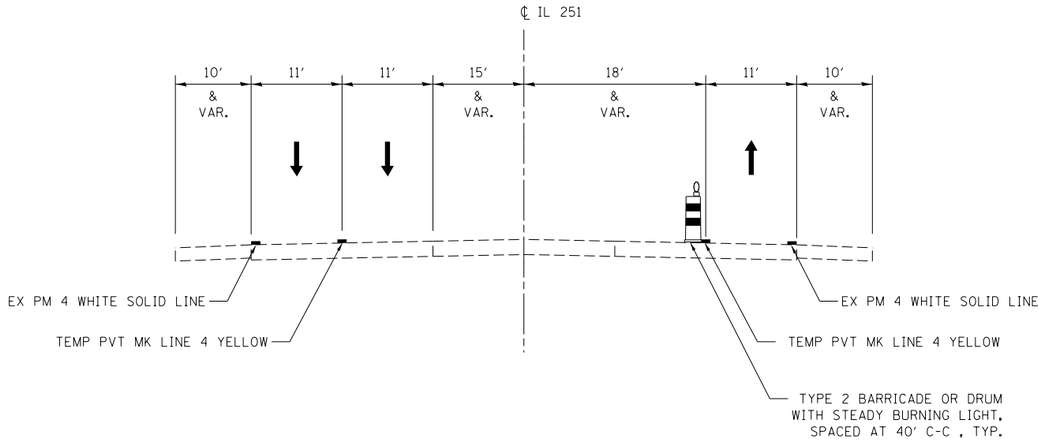
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS – IL ROUTE 251

SHEET NO. 2 OF 8 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	56
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

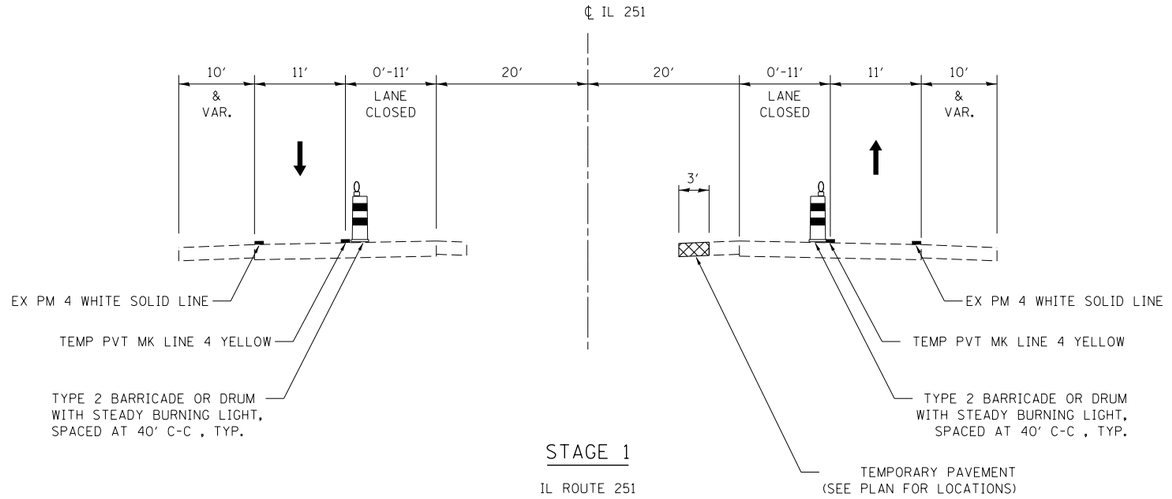
STAGE 1

- SET UP TRAFFIC CONTROL AND TEMPORARY SIGNING ALONG IL 251 - SWITCH TRAFFIC TO STAGE I CONFIGURATION
- CONSTRUCT MEDIAN CROSSOVERS
- PLACE TEMPORARY PAVEMENT AS SHOWN ON PLANS



STAGE 1, 2 & 3

IL ROUTE 251
STA. 138+00 TO STA. 175+78



STAGE 1

IL ROUTE 251
STA. 175+78 TO STA. 204+33

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PROFILE: SURVEYED, PLOTTED, CROSS CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO. ____, BY, DATE

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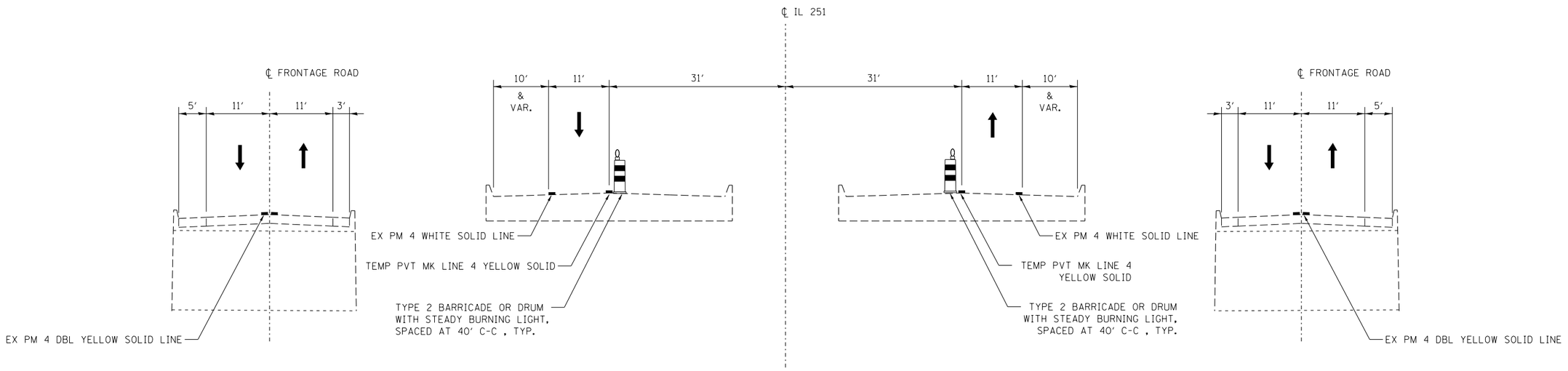
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DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS – IL ROUTE 251

SHEET NO. 3 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	57
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STAGE 1

IL ROUTE 251
BRIDGE SECTION
STA 185+21

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PROFILE: SURVEYED / PLOTTED / QUANTITIES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY / DATE

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DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

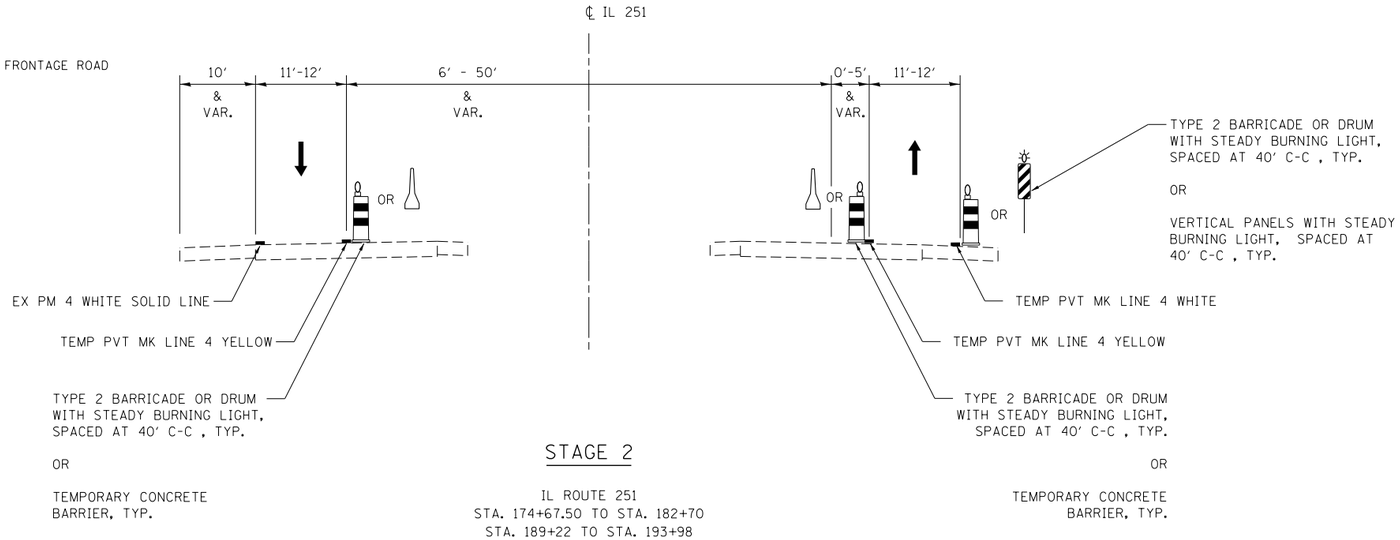
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS – IL ROUTE 251

SHEET NO. 4 OF 8 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	58
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

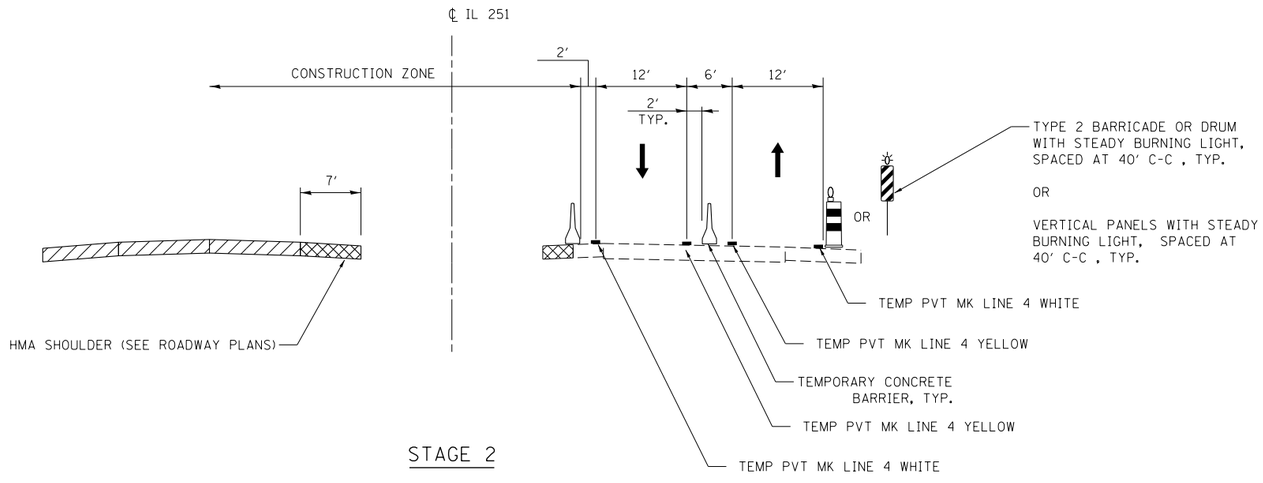
STAGE 2

- SWITCH TRAFFIC TO STAGE II CONFIGURATION
- SWITCH TRAFFIC TO NORTHBOUND LANES
- REMOVE EXISTING STRUCTURES AS SHOWN ON PLANS
- CONSTRUCT SN 101-2050 TO THE LIMITS SHOWN
- CONSTRUCT PAVEMENT PATCHES ON SOUTHBOUND IL 251 LANES AND ON WEST FRONTAGE ROAD



STAGE 2

IL ROUTE 251
STA. 174+67.50 TO STA. 182+70
STA. 189+22 TO STA. 193+98



STAGE 2

IL ROUTE 251
STA. 182+70 TO STA 185+05
STA. 185+36 TO STA. 189+22

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KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

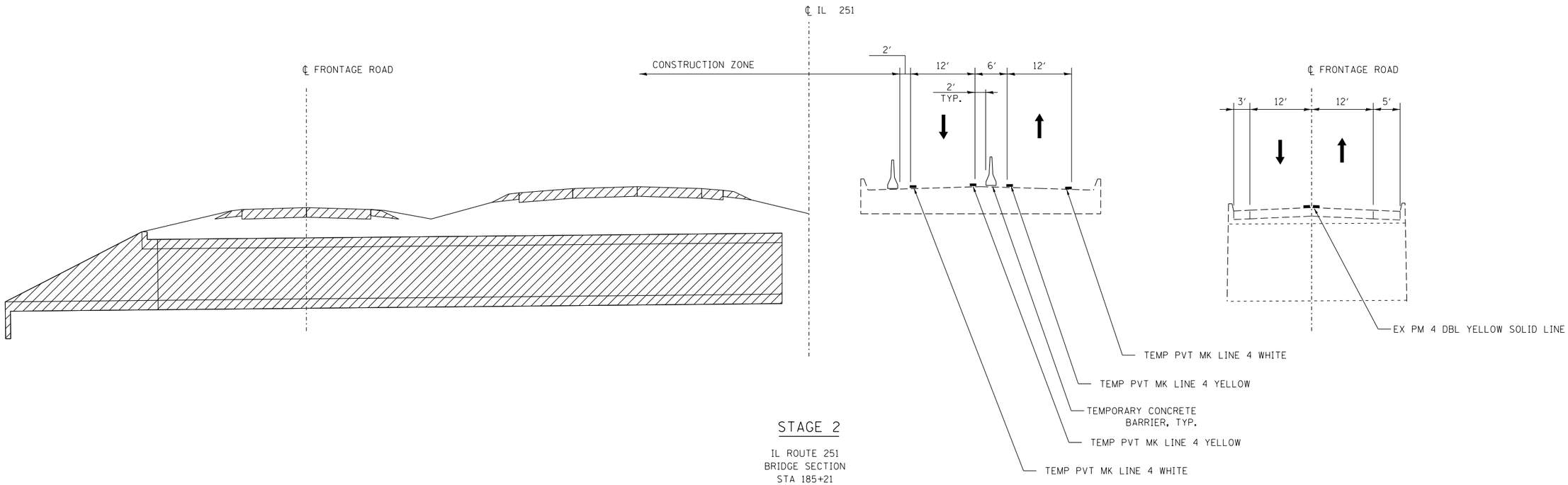
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS – IL ROUTE 251

SHEET NO. 5 OF 8 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	59
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
HORIZ. CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
VERT. CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE



STAGE 2

IL ROUTE 251
BRIDGE SECTION
STA 185+21

FILE NAME = D264D70-sht-Staging_Typicals.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

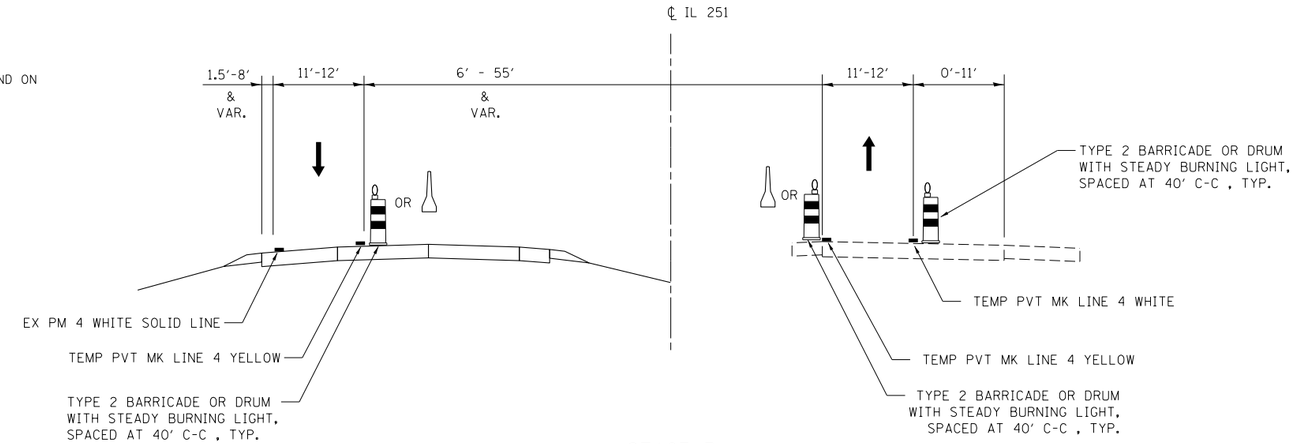
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS – IL ROUTE 251

SHEET NO. 6 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	60
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

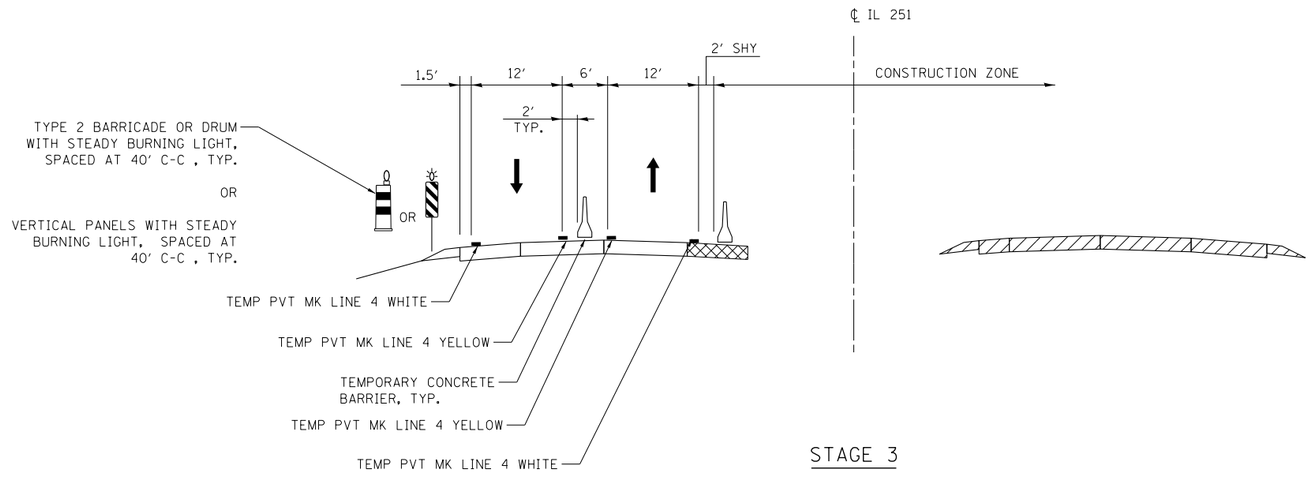
STAGE 3

- SWITCH TRAFFIC TO STAGE III CONFIGURATION
- SWITCH TRAFFIC TO SOUTHBOUND LANES
- REMOVE EXISTING STRUCTURES AS SHOWN ON PLANS
- CONSTRUCT THE REMAINING LENGTH OF SN 101-2050
- CONSTRUCT PAVEMENT PATCHES ON NORTHBOUND IL 251 LANES AND ON EAST FRONTAGE ROAD



STAGE 3

IL ROUTE 251
STA. 171+00 TO STA. 182+68
STA. 189+22 TO STA. 194+11



STAGE 3

IL ROUTE 251
STA. 182+70 TO STA 185+05
STA. 185+36 TO STA. 189+22

PLAN — NOTE BOOK NO. ____ — SURVEYED — PLOTTED — QUANTITIES CHECKED — ALIGNMENT CHECKED — RT. OF WAY CHECKED — CADD FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO. ____ — SURVEYED — PLOTTED — CROSS SECTIONS CHECKED — B.M. NOTED — STRUCTURE NOTATIONS CHKD — BY — DATE

FILE NAME = D264870-sht-Staging_Typicals.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

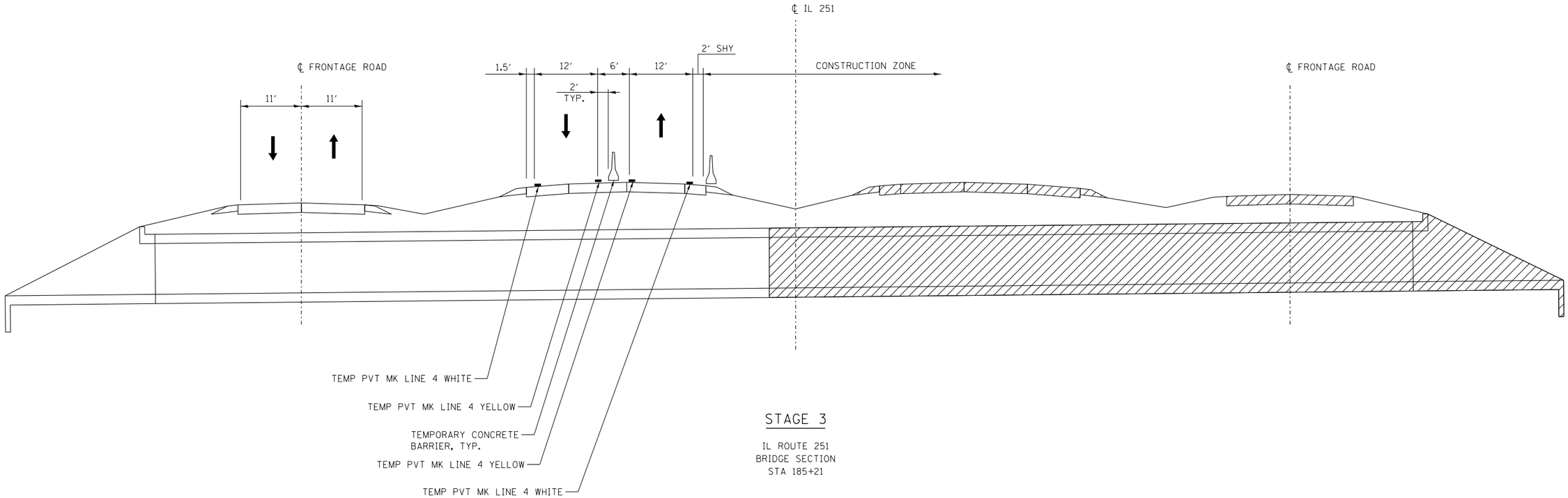
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS – IL ROUTE 251

SHEET NO. 7 OF 8 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	61
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
DRAWN
CHECKED
QUANTITIES CHECKED
R.P. OF MAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
DRAWN
CHECKED
QUANTITIES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOL
NO.
BY
DATE



STAGE 3

IL ROUTE 251
BRIDGE SECTION
STA 185+21

FILE NAME = D264870-sht-Staging_Typicals.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS – IL ROUTE 251

SHEET NO. 8 OF 8 SHEETS | STA. | TO STA.

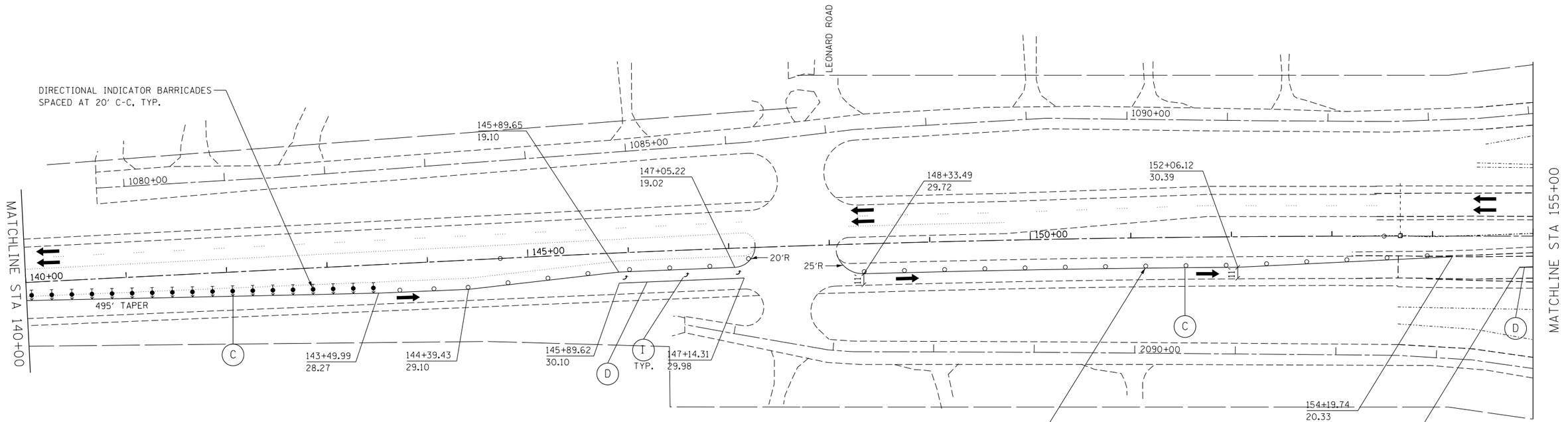
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	62
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

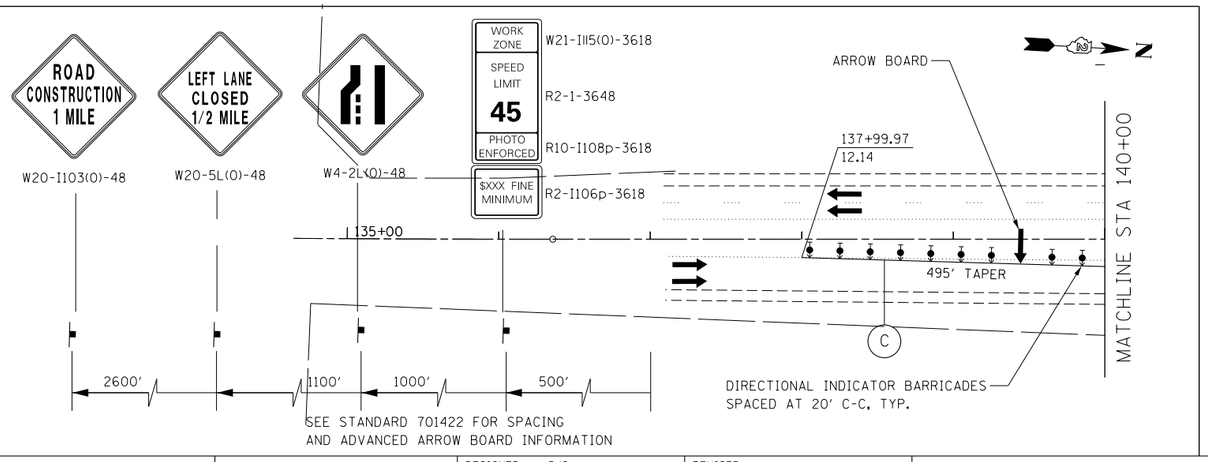
MOT PAVEMENT MARKING LEGEND

- (A) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID WHITE
- (B) TEMPORARY PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) (UNLESS OTHERWISE NOTED)
- (C) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID YELLOW
- (D) TEMPORARY PAVEMENT MARKING - LINE 6", SOLID WHITE
- (E) TEMPORARY PAVEMENT MARKING - LINE 8 ", SOLID WHITE
- (F) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID WHITE
- (G) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID YELLOW
- (H) TEMPORARY PAVEMENT MARKING - LINE 24", SOLID WHITE
- (I) TEMPORARY PAVEMENT MARKING, LETTERS & SYMBOLS

LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- DIRECTION OF TRAFFIC
- CHANNELIZATION DRUM WITH STEADY BURNING LIGHT (SEE MOT GENERAL NOTE 11)
- DIRECTIONAL BARRICADE
- TEMPORARY IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- VERTICAL PANEL
- SIGN
- TYPE III BARRICADE LOCATION





50 0 50 100
HORIZONTAL SCALE: 1"=50'-0"

PLAN — SURVEYED — PLOTTED — HORIZ. CHECKED — VERT. CHECKED — R.P. OF MAX CHECKED — CADD FILE NAME — NOTE BOOK — NO. — BY — DATE

PROFILE — SURVEYED — PLOTTED — HORIZ. CHECKED — B.M. NOTED — STRUCTURE NOTATNS CHKD — NOTE BOOK — NO. — BY — DATE

FILE NAME = D264D70-sht-Stage_1-001.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
MAINTENANCE OF TRAFFIC – STAGE 1
SHEET NO. 1 OF 5 SHEETS | STA. 140+00 | TO STA. 155+00

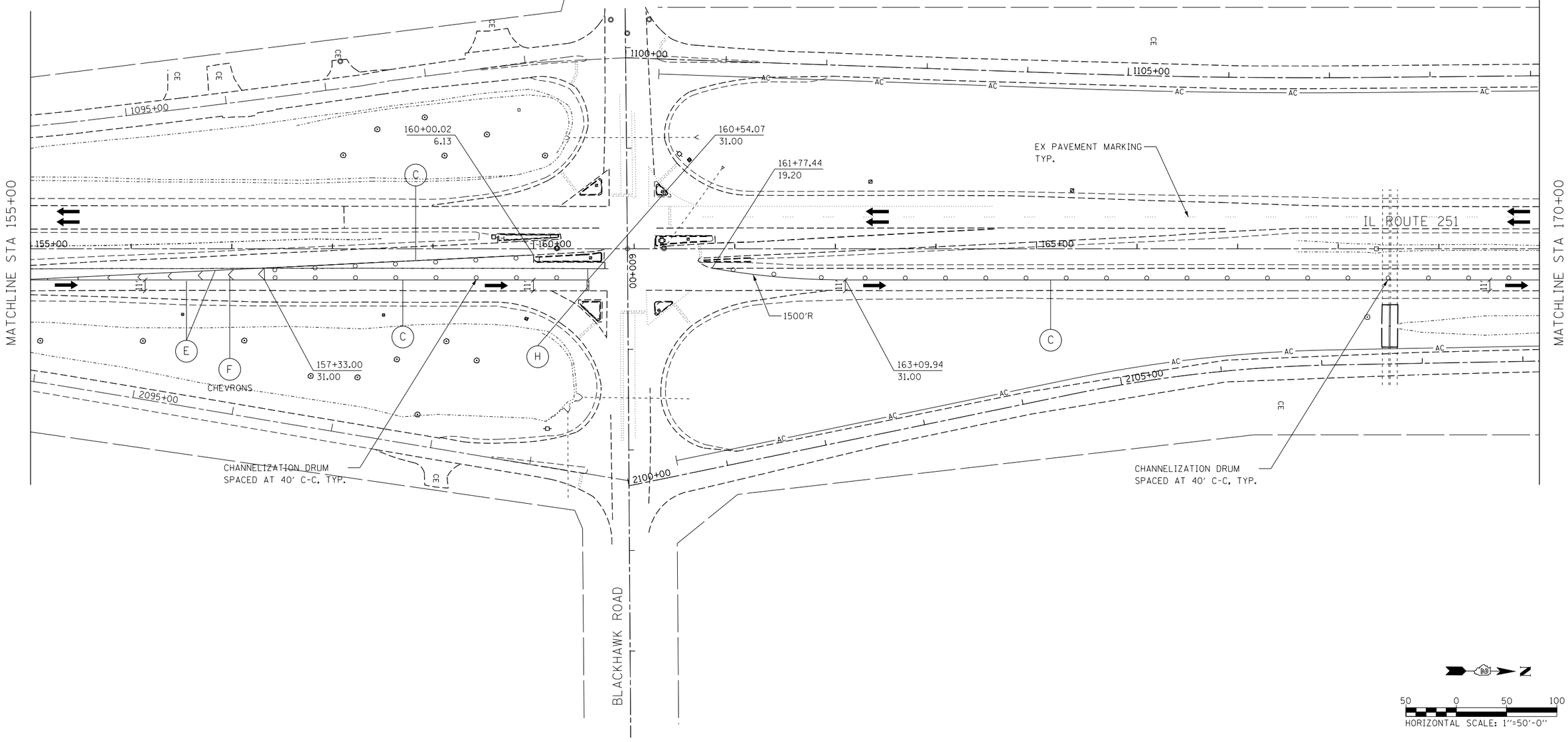
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	63
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

MOT PAVEMENT MARKING LEGEND

- (A) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID WHITE
- (B) TEMPORARY PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) (UNLESS OTHERWISE NOTED)
- (C) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID YELLOW
- (D) TEMPORARY PAVEMENT MARKING - LINE 6", SOLID WHITE
- (E) TEMPORARY PAVEMENT MARKING - LINE 8 ", SOLID WHITE
- (F) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID WHITE
- (G) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID YELLOW
- (H) TEMPORARY PAVEMENT MARKING - LINE 24", SOLID WHITE
- (I) TEMPORARY PAVEMENT MARKING, LETTERS & SYMBOLS

LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- DIRECTION OF TRAFFIC
- CHANNELIZATION DRUM WITH STEADY BURNING LIGHT (SEE MOT GENERAL NOTE 11)
- DIRECTIONAL BARRICADE
- TEMPORARY IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- VERTICAL PANEL
- SIGN
- TYPE III BARRICADE LOCATION



50 0 50 100
HORIZONTAL SCALE: 1"=50'-0"

PLAN — SURVEYED / PLOTTED / DRAWN / CHECKED / QUANT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / DRAWN / CHECKED / BM. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY / DATE

FILE NAME = D264070-sht-Stage1-002.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
MAINTENANCE OF TRAFFIC – STAGE 1

SHEET NO. 2 OF 5 SHEETS | STA. 155+00 | TO STA. 170+00

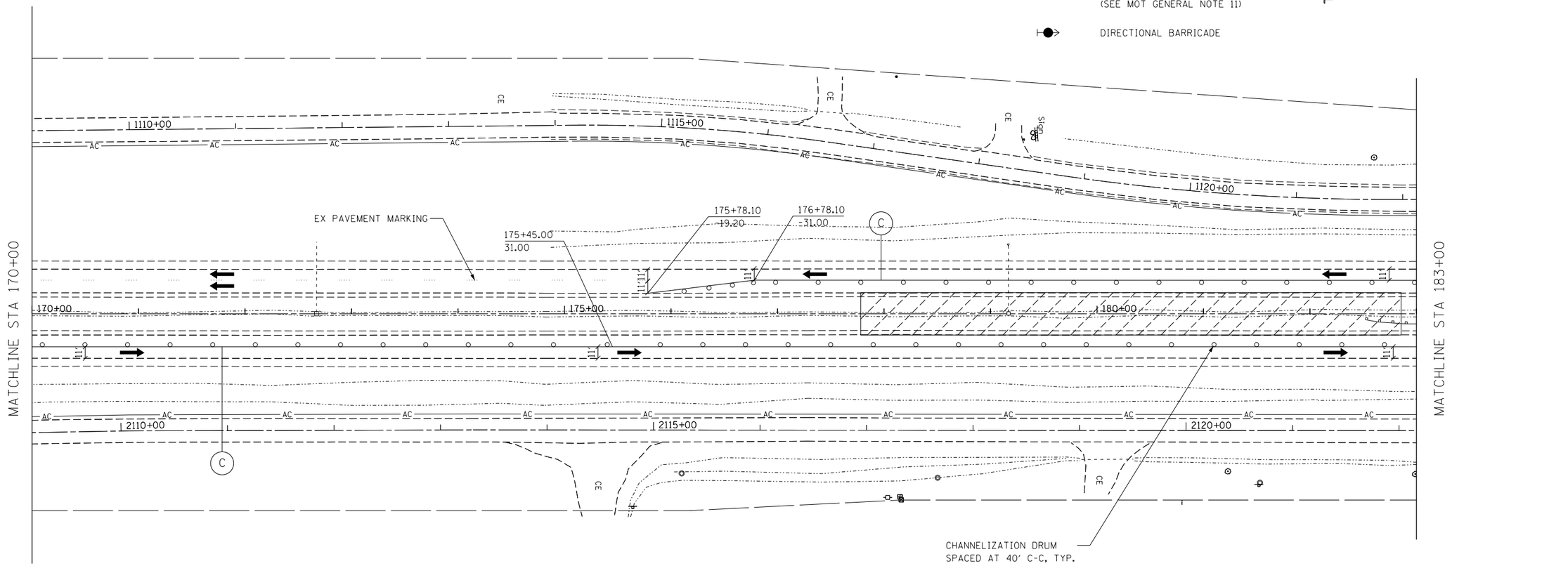
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	64
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

MOT PAVEMENT MARKING LEGEND

- (A) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID WHITE
- (B) TEMPORARY PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) (UNLESS OTHERWISE NOTED)
- (C) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID YELLOW
- (D) TEMPORARY PAVEMENT MARKING - LINE 6", SOLID WHITE
- (E) TEMPORARY PAVEMENT MARKING - LINE 8 ", SOLID WHITE
- (F) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID WHITE
- (G) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID YELLOW
- (H) TEMPORARY PAVEMENT MARKING - LINE 24", SOLID WHITE
- (I) TEMPORARY PAVEMENT MARKING, LETTERS & SYMBOLS

LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- DIRECTION OF TRAFFIC
- CHANNELIZATION DRUM WITH STEADY BURNING LIGHT (SEE MOT GENERAL NOTE 11)
- DIRECTIONAL BARRICADE
- TEMPORARY IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- VERTICAL PANEL
- SIGN
- TYPE III BARRICADE LOCATION



HORIZONTAL SCALE: 1"=50'-0"

PLAN — SURVEYED / PLOTTED / DESIGN CHECKED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / DESIGN CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY / DATE

FILE NAME = D264D70-sht-Stage1-803.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
MAINTENANCE OF TRAFFIC – STAGE 1

SHEET NO. 3 OF 5 SHEETS | STA. 170+00 | TO STA. 183+00

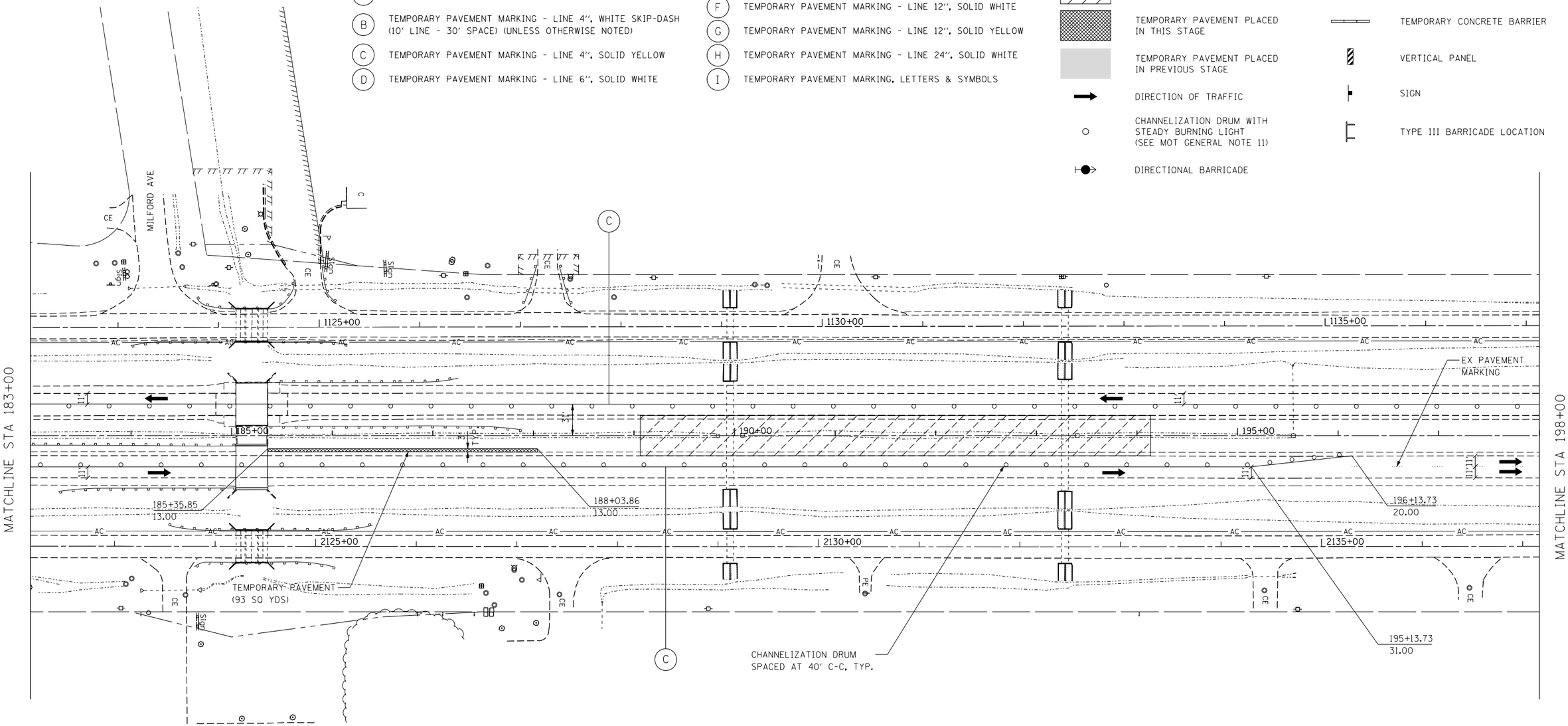
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	65
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

MOT PAVEMENT MARKING LEGEND

- (A) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID WHITE
- (B) TEMPORARY PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) (UNLESS OTHERWISE NOTED)
- (C) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID YELLOW
- (D) TEMPORARY PAVEMENT MARKING - LINE 6", SOLID WHITE
- (E) TEMPORARY PAVEMENT MARKING - LINE 8 ", SOLID WHITE
- (F) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID WHITE
- (G) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID YELLOW
- (H) TEMPORARY PAVEMENT MARKING - LINE 24", SOLID WHITE
- (I) TEMPORARY PAVEMENT MARKING, LETTERS & SYMBOLS

LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- DIRECTION OF TRAFFIC
- CHANNELIZATION DRUM WITH STEADY BURNING LIGHT (SEE MOT GENERAL NOTE 11)
- DIRECTIONAL BARRICADE
- TEMPORARY IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- VERTICAL PANEL
- SIGN
- TYPE III BARRICADE LOCATION



50 0 50 100
HORIZONTAL SCALE: 1"=50'-0"

KNIGHT Engineers & Architects	DESIGNED - DJC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - DJC	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 12/14/2018	REVISED -	

IL. ROUTE 251
MAINTENANCE OF TRAFFIC – STAGE 1
SHEET NO. 4 OF 5 SHEETS STA. 183+00 TO STA. 198+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	66
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN — SURVEYED, PLOTTED, QUANTITIES CHECKED, BM. NOTED, STRUCTURE NOTATNS CHK'D, NOTE BOOK, NO.
PROFILE — SURVEYED, PLOTTED, QUANTITIES CHECKED, BM. NOTED, STRUCTURE NOTATNS CHK'D, NOTE BOOK, NO.
DATE, BY

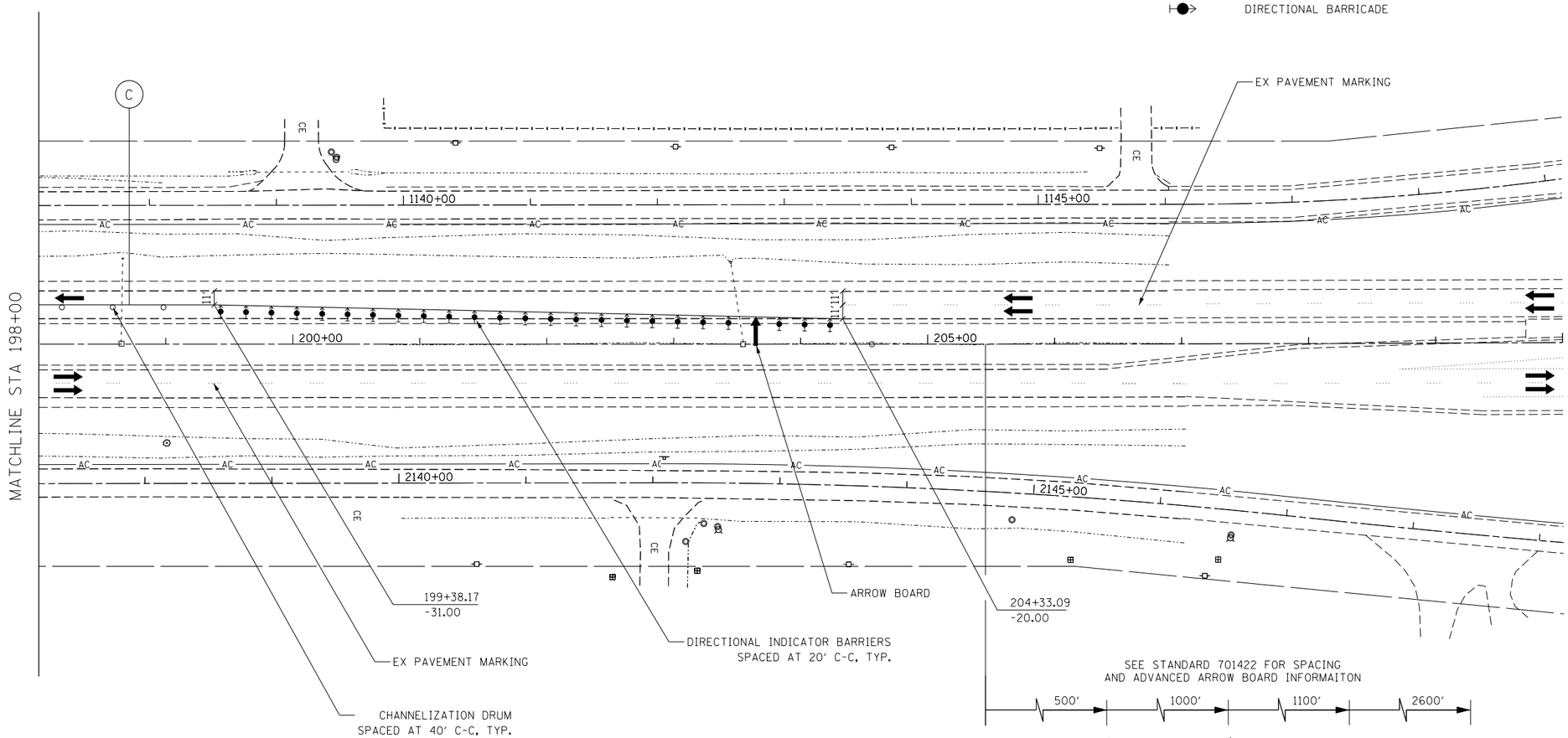
FILE NAME = D264070-sht-Stage_1-004.dgn

MOT PAVEMENT MARKING LEGEND

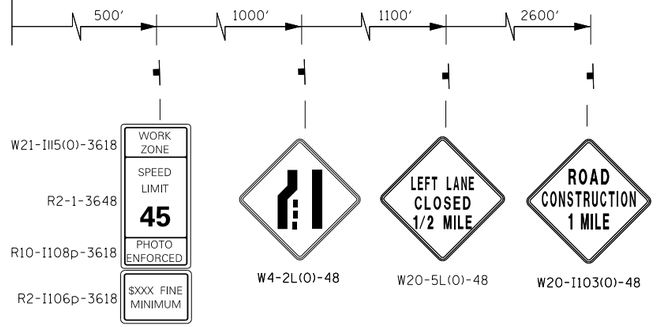
- (A) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID WHITE
- (B) TEMPORARY PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) (UNLESS OTHERWISE NOTED)
- (C) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID YELLOW
- (D) TEMPORARY PAVEMENT MARKING - LINE 6", SOLID WHITE
- (E) TEMPORARY PAVEMENT MARKING - LINE 8 ", SOLID WHITE
- (F) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID WHITE
- (G) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID YELLOW
- (H) TEMPORARY PAVEMENT MARKING - LINE 24", SOLID WHITE
- (I) TEMPORARY PAVEMENT MARKING, LETTERS & SYMBOLS

LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- DIRECTION OF TRAFFIC
- CHANNELIZATION DRUM WITH STEADY BURNING LIGHT (SEE MOT GENERAL NOTE 11)
- DIRECTIONAL BARRICADE
- TEMPORARY IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- VERTICAL PANEL
- SIGN
- TYPE III BARRICADE LOCATION



SEE STANDARD 701422 FOR SPACING AND ADVANCED ARROW BOARD INFORMAITON



N

50 0 50 100

HORIZONTAL SCALE: 1"=50'-0"

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / CROSS SECS CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY / DATE

FILE NAME = D264D70-sht-Stage_1-005.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
MAINTENANCE OF TRAFFIC – STAGE 1

SHEET NO. 5 OF 5 SHEETS | STA. 198+00 | TO STA. 210+00

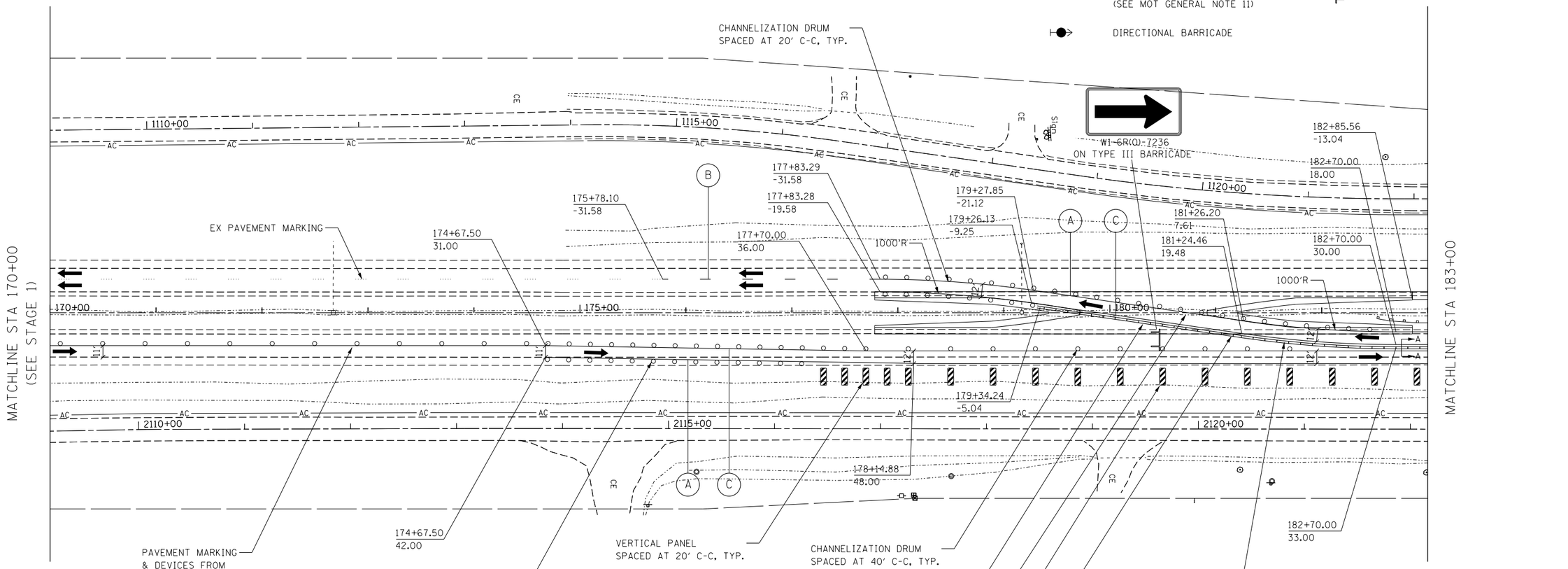
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	67
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

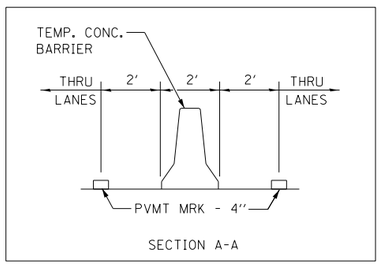
MOT PAVEMENT MARKING LEGEND

- (A) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID WHITE
- (B) TEMPORARY PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) (UNLESS OTHERWISE NOTED)
- (C) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID YELLOW
- (D) TEMPORARY PAVEMENT MARKING - LINE 6", SOLID WHITE
- (E) TEMPORARY PAVEMENT MARKING - LINE 8 ", SOLID WHITE
- (F) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID WHITE
- (G) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID YELLOW
- (H) TEMPORARY PAVEMENT MARKING - LINE 24", SOLID WHITE
- (I) TEMPORARY PAVEMENT MARKING, LETTERS & SYMBOLS

LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- DIRECTION OF TRAFFIC
- CHANNELIZATION DRUM WITH STEADY BURNING LIGHT (SEE MOT GENERAL NOTE 11)
- DIRECTIONAL BARRICADE
- TEMPORARY IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- VERTICAL PANEL
- SIGN
- TYPE III BARRICADE LOCATION





HORIZONTAL SCALE: 1"=50'-0"

PLAN — SURVEYED, PLOTTED, DGN'S CHECKED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE — SURVEYED, PLOTTED, DGN'S CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = D264D70-sht-Stage_2-003.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
MAINTENANCE OF TRAFFIC – STAGE 2

SHEET NO. 1 OF 3 SHEETS | STA. 170+00 | TO STA. 183+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	68
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

MOT PAVEMENT MARKING LEGEND

- (A) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID WHITE
- (B) TEMPORARY PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) (UNLESS OTHERWISE NOTED)
- (C) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID YELLOW
- (D) TEMPORARY PAVEMENT MARKING - LINE 6", SOLID WHITE
- (E) TEMPORARY PAVEMENT MARKING - LINE 8 ", SOLID WHITE
- (F) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID WHITE
- (G) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID YELLOW
- (H) TEMPORARY PAVEMENT MARKING - LINE 24", SOLID WHITE
- (I) TEMPORARY PAVEMENT MARKING, LETTERS & SYMBOLS

LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- DIRECTION OF TRAFFIC
- CHANNELIZATION DRUM WITH STEADY BURNING LIGHT (SEE MOT GENERAL NOTE 11)
- TEMPORARY IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- VERTICAL PANEL
- SIGN
- TYPE III BARRICADE LOCATION
- DIRECTIONAL BARRICADE

MILFORD RD

ROAD CLOSED

R11-2-4830 ON TYPE III BARRICADE

TEMPORARY ACCESS (ROAD)

TEMPORARY PAVEMENT (69 SQ YD)

TEMPORARY ACCESS (COMMERCIAL ENTRANCE)

TEMPORARY CONCRETE BARRIER, TYP

BARRIER WALL REFLECTORS, TYPE C STA 185+04 TO STA 187+69 (25' SPACING)

HMA SHOULDER MONOLITHIC TO ADJACENT PAVEMENT (SEE ROADWAY PLANS)

TEMPORARY ACCESS (COMMERCIAL ENTRANCE)

IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3

LINEAR DELINEATION PANELS, 6 INCH ON TEMP. CONC. BARRIER SPACED AT 25' C-C, TYP SB STA 188+50 TO STA 191+00

CHANNELIZATION DRUM SPACED AT 20' C-C, TYP.

CHANNELIZATION DRUM SPACED AT 40' C-C, TYP.

MATCHLINE STA 183+00

MATCHLINE STA 198+00

1125+00 | 1130+00 | 1135+00 | 2125+00 | 2130+00 | 2135+00 | 185+00 | 190+00 | 195+00

185+04.27, 15.00

186+66.03, -13.25

187+68.86, 15.00

188+76.83, 48.00

189+21.83, 30.00

189+21.83, 18.00

189+21.83, 33.00

189+21.83, 36.00

190+66.91, 19.55

191+00.00, 2.00

191+52.56, 30.87

191+52.56, 41.87

192+50.48, -20.18

192+54.81, -7.67

193+98.17, -31.00

193+98.17, -18.00

193+97.13, 17.50

194+98.17, -20.11

194+10.30, 30.70

196+14.03, 30.66

1000'R

7' TYP.

GUARDRAIL REFLECTORS, TYPE A, SPACED AT 25' C-C, TYP SB STA 182+52 TO STA 185+03

GUARDRAIL REFLECTORS, TYPE A, SPACED AT 25' C-C, TYP SB STA 183+27 TO STA 185+03

BARRIER WALL REFLECTORS, TYPE C STA 185+04 TO STA 185+35 (25' SPACING)

W1-4R(O)-48

W1-4L(O)-48

VERTICAL PANEL SPACED AT 40' C-C, TYP.

CHANNELIZATION DRUM SPACED AT 40' C-C, TYP.

MODULAR GLARE SCREEN SYSTEM, TEMPORARY ON TEMP. CONC. BARRIER STA 180+50 TO STA 191+00

TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER (SPACED 25' C-C) OUTSIDE AND INSIDE EDGES OF LANE STA 189+22 TO STA 194+00

TEMPORARY CONCRETE BARRIER, TYP

W1-6L(O)-7236 ON TYPE III BARRICADE

EX PAVEMENT MARKING

W1-4L(O)-48

℄ TEMP. CONC. BARRIER

THRU LANES | 3' TYP. | 3' TYP. | THRU LANES

PVMT MRK - 4"

SECTION A-A

50 0 50 100

HORIZONTAL SCALE: 1"=50'-0"

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE — SURVEYED, PLOTTED, DRAWN, CHECKED, B.M. NOTED, STRUCTURE NO/ATN'S CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = D264D70-sht-Stage_2-004.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
MAINTENANCE OF TRAFFIC – STAGE 2

SHEET NO. 2 OF 3 SHEETS | STA. 183+00 | TO STA. 198+00

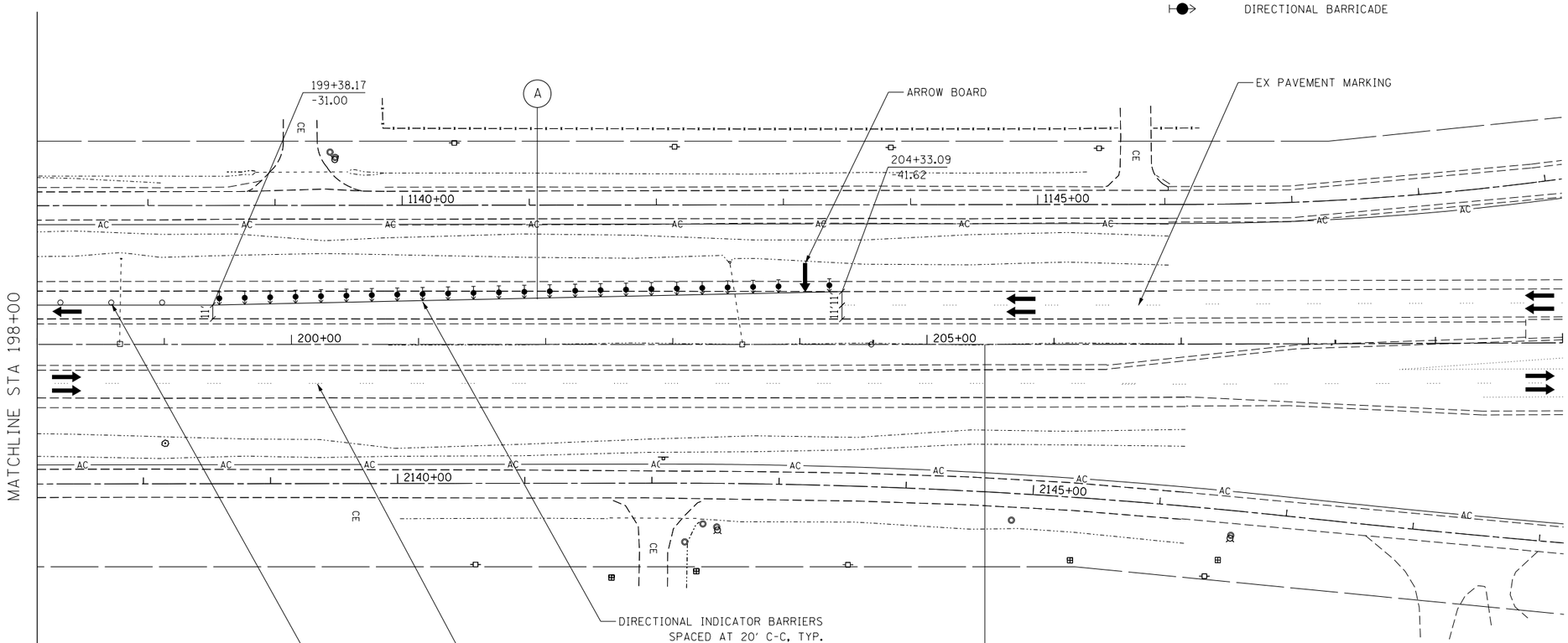
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	69
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

MOT PAVEMENT MARKING LEGEND

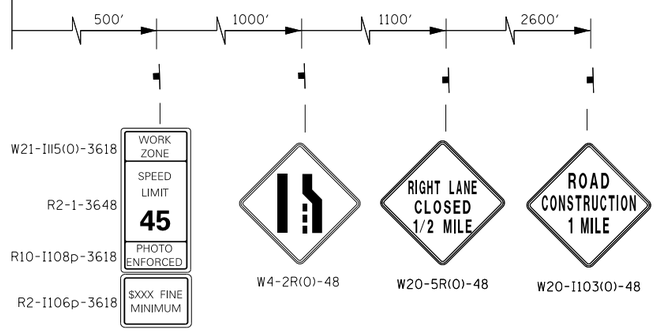
- (A) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID WHITE
- (B) TEMPORARY PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) (UNLESS OTHERWISE NOTED)
- (C) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID YELLOW
- (D) TEMPORARY PAVEMENT MARKING - LINE 6", SOLID WHITE
- (E) TEMPORARY PAVEMENT MARKING - LINE 8 ", SOLID WHITE
- (F) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID WHITE
- (G) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID YELLOW
- (H) TEMPORARY PAVEMENT MARKING - LINE 24", SOLID WHITE
- (I) TEMPORARY PAVEMENT MARKING, LETTERS & SYMBOLS

LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- DIRECTION OF TRAFFIC
- CHANNELIZATION DRUM WITH STEADY BURNING LIGHT (SEE MOT GENERAL NOTE 11)
- DIRECTIONAL BARRICADE
- TEMPORARY IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- VERTICAL PANEL
- SIGN
- TYPE III BARRICADE LOCATION



SEE STANDARD 701422 FOR SPACING AND ADVANCED ARROW BOARD INFORMATION



50 0 50 100
HORIZONTAL SCALE: 1"=50'-0"

PLAN — SURVEYED / PLOTTED / QUANTITIES CHECKED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / QUANTITIES CHECKED / BM. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY / DATE

FILE NAME = D264D70-sht-Stage_2-005.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
MAINTENANCE OF TRAFFIC – STAGE 2

SHEET NO. 3 OF 3 SHEETS | STA. 198+00 | TO STA. 210+00

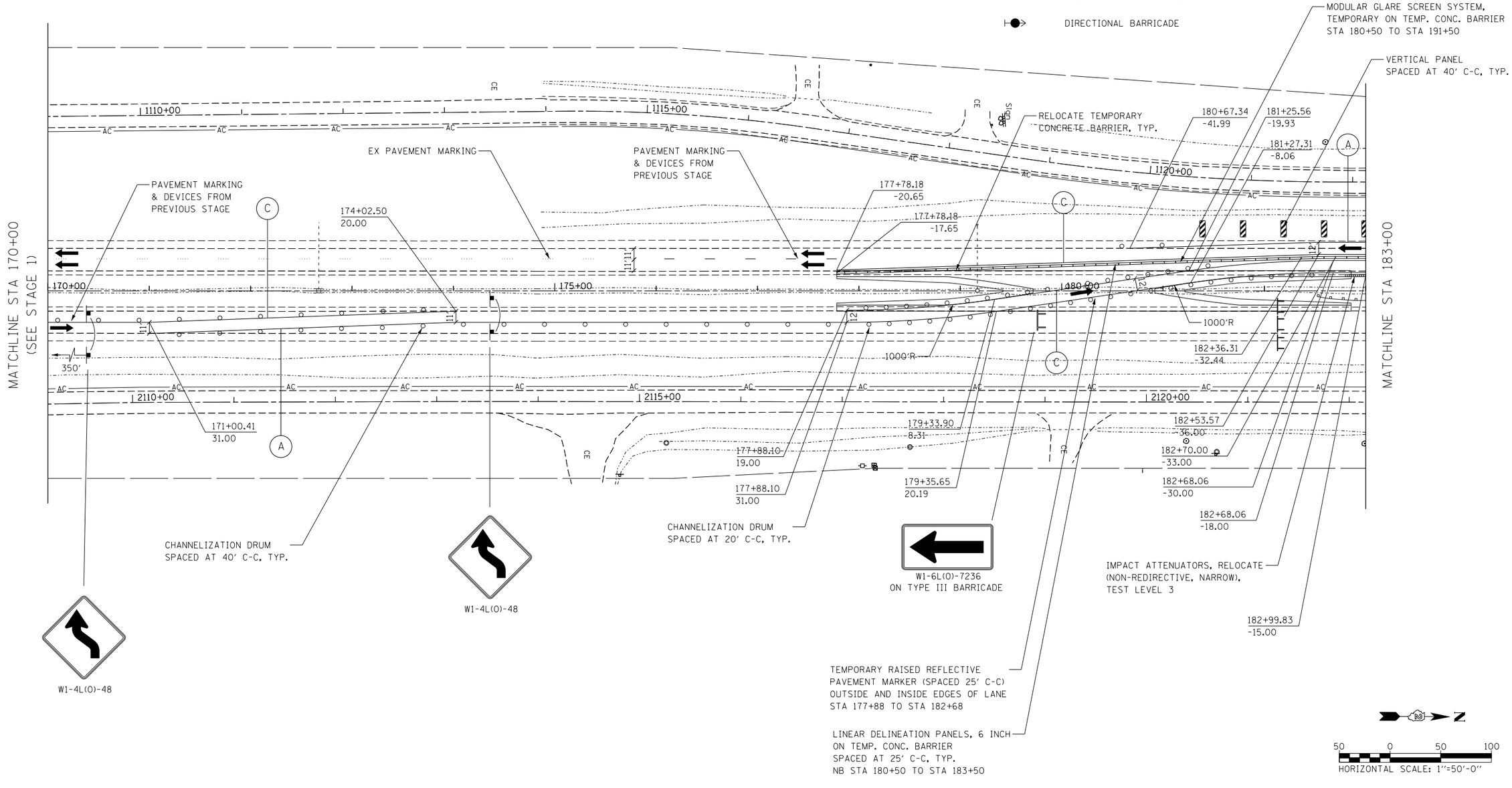
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	70
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

MOT PAVEMENT MARKING LEGEND

- (A) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID WHITE
- (B) TEMPORARY PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) (UNLESS OTHERWISE NOTED)
- (C) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID YELLOW
- (D) TEMPORARY PAVEMENT MARKING - LINE 6", SOLID WHITE
- (E) TEMPORARY PAVEMENT MARKING - LINE 8 ", SOLID WHITE
- (F) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID WHITE
- (G) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID YELLOW
- (H) TEMPORARY PAVEMENT MARKING - LINE 24", SOLID WHITE
- (I) TEMPORARY PAVEMENT MARKING, LETTERS & SYMBOLS

LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- DIRECTION OF TRAFFIC
- CHANNELIZATION DRUM WITH STEADY BURNING LIGHT (SEE MOT GENERAL NOTE 11)
- DIRECTIONAL BARRICADE
- TEMPORARY IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- VERTICAL PANEL
- SIGN
- TYPE III BARRICADE LOCATION



PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / CROSS SECTIONS CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD / NOTE BOOK / NO. / BY / DATE

FILE NAME = D264D70-sht-Stage-3-003.dgn

KNIGHT Engineers & Architects	DESIGNED - DJC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - DJC	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 12/14/2018	REVISED -	

IL. ROUTE 251
MAINTENANCE OF TRAFFIC – STAGE 3

SHEET NO. 1 OF 3 SHEETS | STA. 170+00 TO STA. 183+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	71
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

MOT PAVEMENT MARKING LEGEND

- (A) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID WHITE
- (B) TEMPORARY PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) (UNLESS OTHERWISE NOTED)
- (C) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID YELLOW
- (D) TEMPORARY PAVEMENT MARKING - LINE 6", SOLID WHITE
- (E) TEMPORARY PAVEMENT MARKING - LINE 8 ", SOLID WHITE
- (F) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID WHITE
- (G) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID YELLOW
- (H) TEMPORARY PAVEMENT MARKING - LINE 24", SOLID WHITE
- (I) TEMPORARY PAVEMENT MARKING, LETTERS & SYMBOLS

LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- DIRECTION OF TRAFFIC
- CHANNELIZATION DRUM WITH STEADY BURNING LIGHT (SEE MOT GENERAL NOTE 11)
- DIRECTIONAL BARRICADE
- TEMPORARY IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- VERTICAL PANEL
- SIGN
- TYPE III BARRICADE LOCATION

MATCHLINE STA 183+00

MILFORD RD.

W1-4L(O)-48

RELOCATE TEMPORARY CONCRETE BARRIER, TYP.

VERTICAL PANEL SPACED AT 40' C-C, TYP.

MODULAR GLARE SCREEN SYSTEM, TEMPORARY ON TEMP. CONC. BARRIER STA 180+50 TO STA 191+50

CHANNELIZATION DRUM SPACED AT 40' C-C, TYP.

W1-4R(O)-48

1000'R

1000'R

186+20.00
-15.00

189+22.51
-33.00

190+70.49
-22.15

191+24.49
-48.00

191+57.18
-36.00

192+95.00
-41.80

192+95.00
-31.00

1125+00

1130+00

1135+00

185+00

190+00

195+00

189+22.51
-30.00

193+02.41
12.02

194+10.30
20.27

2125+00

2130+00

2135+00

194+10.62
32.27

192+65.29
9.58

189+22.51
-18.00

190+70.06
-19.19

190+68.31
-7.31

192+63.54
21.46

BARRIER WALL REFLECTORS, TYPE C STA 183+00 TO STA 186+20 (25' SPACING)

TEMPORARY ACCESS (COMMERCIAL ENTRANCE)

ROAD CLOSED

R11-2-4830
ON TYPE III BARRICADE

W1-4R(O)-48

W1-6L(O)-7236
ON TYPE III BARRICADE

TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER (SPACED 25' C-C) OUTSIDE AND INSIDE EDGES OF LANE STA 177+88 TO STA 182+68

LINEAR DELINEATION PANELS, 6 INCH ON TEMP. CONC. BARRIER SPACED AT 25' C-C, TYP.
NB STA 188+50 TO STA 191+50
SB STA 188+50 TO STA 191+00

EX PAVEMENT MARKING

PAVEMENT MARKING FROM PRIOR STAGE

MATCHLINE STA 198+00

50 0 50 100
HORIZONTAL SCALE: 1"=50'-0"

PLAN — DATE / BY / SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO.

PROFILE — DATE / BY / SURVEYED / PLOTTED / GRADES CHECKED / BM. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO.

FILE NAME = D264070-sht-Stage_3-004.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
MAINTENANCE OF TRAFFIC – STAGE 3

SHEET NO. 2 OF 3 SHEETS | STA. 183+00 TO STA. 198+00

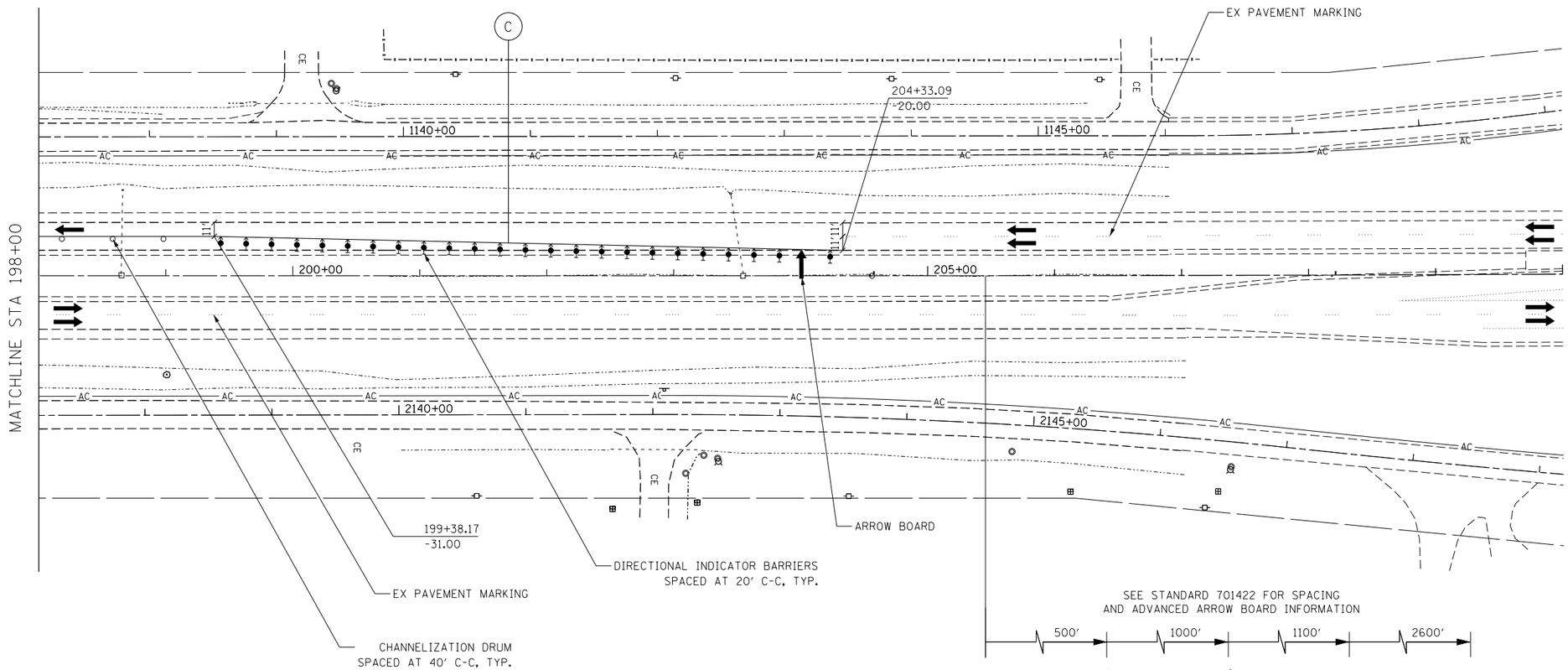
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	72
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

MOT PAVEMENT MARKING LEGEND

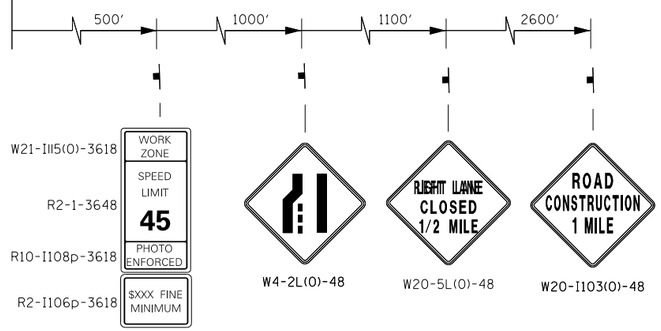
- (A) TEMPORARY PAVEMENT MARKING - LINE 4", SOLID WHITE
- (B) TEMPORARY PAVEMENT MARKING - LINE 4", WHITE SKIP-DASH (10' LINE - 30' SPACE) (UNLESS OTHERWISE NOTED)
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- (G) TEMPORARY PAVEMENT MARKING - LINE 12", SOLID YELLOW
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- (I) TEMPORARY PAVEMENT MARKING, LETTERS & SYMBOLS

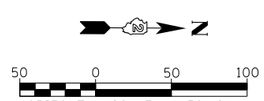
LEGEND

- CONSTRUCTION WORK ZONE
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- DIRECTION OF TRAFFIC
- CHANNELIZATION DRUM WITH STEADY BURNING LIGHT (SEE MOT GENERAL NOTE 11)
- DIRECTIONAL BARRICADE
- TEMPORARY IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER
- VERTICAL PANEL
- SIGN
- TYPE III BARRICADE LOCATION



SEE STANDARD 701422 FOR SPACING AND ADVANCED ARROW BOARD INFORMATION





PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / CROSS SECT CHECKED / BM. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY / DATE

FILE NAME = D264D70-sht-Stage_3-005.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
MAINTENANCE OF TRAFFIC – STAGE 3

SHEET NO. 3 OF 3 SHEETS | STA. 198+00 | TO STA. 210+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	73
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EROSION CONTROL GENERAL NOTES

1. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER. EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RESIDENT ENGINEER.

2. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL FOLLOW IEPA & IDOT CONSTRUCTION MEMORANDUM NO. 02-60.

3. THE MAINTENANCE AND REPAIR OR REPLACEMENT OF EROSION CONTROL ITEMS, WHEN DIRECTED BY THE ENGINEER, WILL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED PAY ITEMS. ALL EROSION CONTROL MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES MAINTENANCE GUIDE: (http://www.idot.illinois.gov/transportation-system/environment/Erosion-and-sediment-control)

4. ALL STORM SEWER FACILITIES THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT. MUD AND SEDIMENT DEPOSITS SHALL BE REMOVED FROM THE ROADWAY AT THE END OF EACH WORK DAY BY SHOVELING AND/OR SWEEPING.

5. TEMPORARY EROSION CONTROL SEEDING MIXTURE WILL DEPEND ON THE TIME OF YEAR SEED IS TO BE APPLIED AND SHALL BE IN ACCORDANCE WITH ARTICLE 1081.15(G) OF THE STANDARD SPECIFICATIONS. STABILIZATION OF ALL AREAS DISTURBED BY CONSTRUCTION SHALL COMMENCE WITHIN 1 DAY AND BE COMPLETE WITHIN 14 DAYS FOR ANY PORTION OF THE SITE THAT WILL BE IDLE FOR MORE THAN 14 DAYS. IF THAT PORTION OF THE SITE WILL BECOME ACTIVE AGAIN AFTER 14 DAYS, TEMPORARY STABILIZATION MEASURES CAN BE USED.

6. DUST CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 107.36 OF THE STANDARD SPECIFICATIONS.

7. WHENEVER DURING CONSTRUCTION OPERATIONS, LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC., SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPEARTELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

8. BROADCASTING OF THE SEED BY MACHINE, HAND METHODS, HYDRAULIC SEEDING OR OTHER METHODS APPROVED BY THE ENGINEER WILL BE ALLOWED FOR TEMPORARY EROSION CONTROL SEEDING.

9. TOPSOIL AND FERTILIZER NUTRIENTS ARE NOT REQUIRED FOR TEMPORARY EROSION CONTROL SEEDING.

10. SEED BED PREPARATION WILL NOT BE REQUIRED FOR TEMPORARY EROSION CONTROL SEEDING IF THE SOIL IS IN A LOOSE CONDITION. LIGHT DISKING SHALL BE DONE IF THE SOIL IS HARD PACKED OR CAKED.

11. ALL PERIMETER EROSION BARRIER AND TEMPORARY FENCE SHALL BE INSTALLED WITHIN THE TEMPORARY EASEMENT, PROPOSED RIGHT-OF-WAY OR EXISTING RIGHT-OF-WAY.

12. ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES SHOULD BE CHECKED WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED AFTER EACH SIGNIFICANT SNOWFALL.

13. THE CONTRACTOR SHOULD PROVIDE TO THE RESIDENT ENGINEER A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO. ____, BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTAT'NS CHK'D, NOTE BOOK, NO. ____, BY, DATE

FILE NAME = D264D70-sht-EC GN-001.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

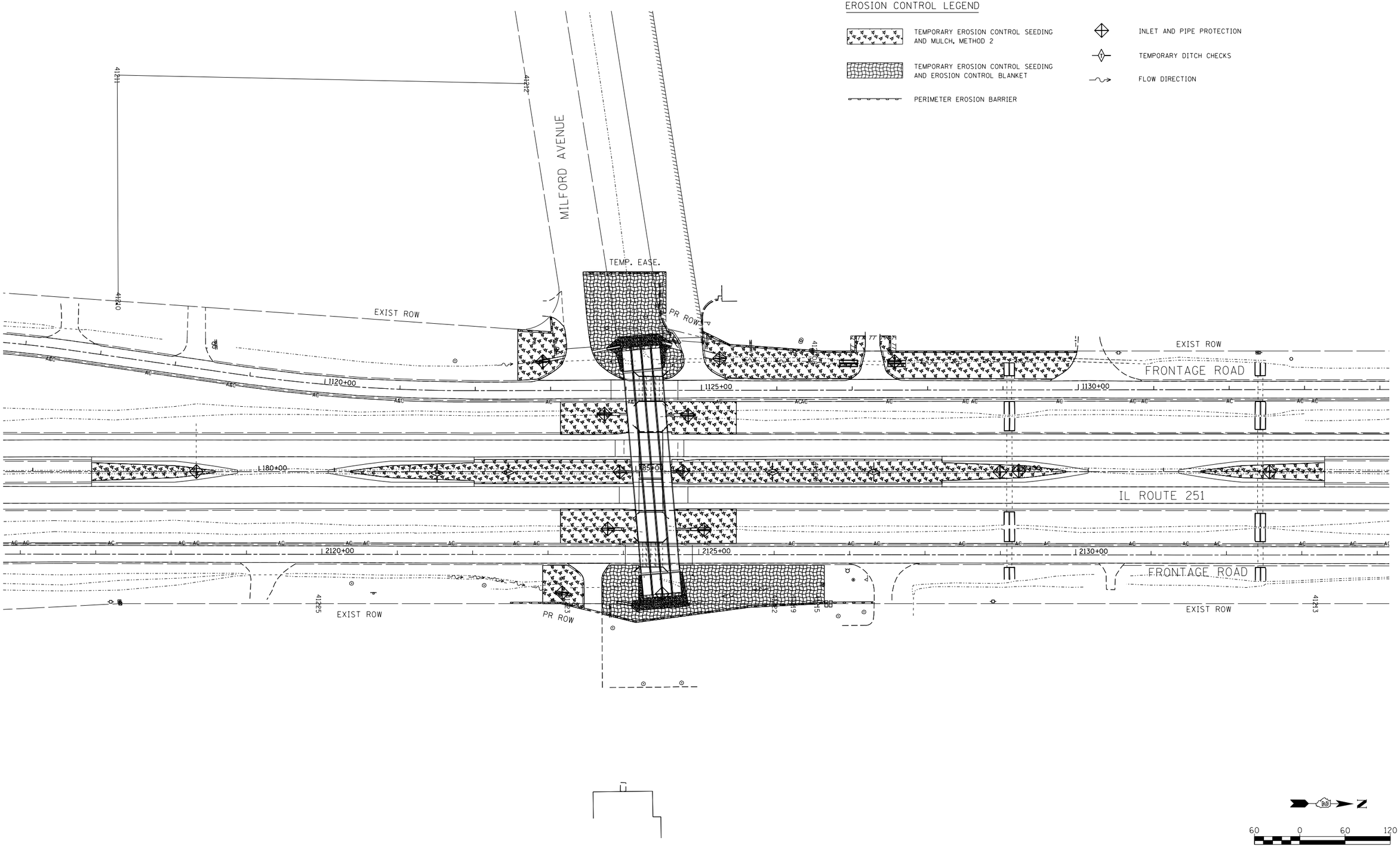
EROSION CONTROL NOTES

SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	74
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EROSION CONTROL LEGEND

- TEMPORARY EROSION CONTROL SEEDING AND MULCH, METHOD 2
- TEMPORARY EROSION CONTROL SEEDING AND EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER
- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECKS
- FLOW DIRECTION



60 0 60 120

HORIZONTAL SCALE: 1"=60'-0"

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHK'D, NOTE BOOK, NO., BY, DATE

FILE NAME = D264D70-sht-EC-001.dgn

KNIGHT
Engineers & Architects

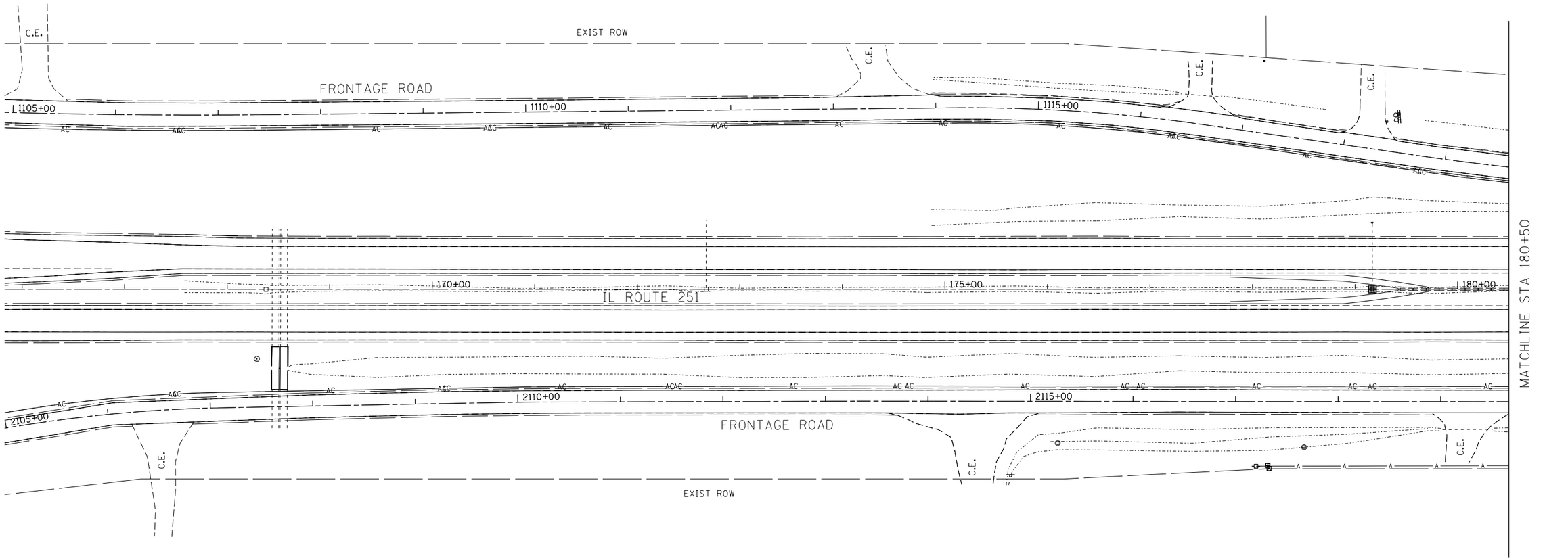
DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
EROSION CONTROL PLAN

SHEET NO. 2 OF 2 SHEETS | STA. 178+00 | TO STA. 194+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	75
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN
SURVEYED
PLOTTED
DRAWING CHECKED
R/T. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSSES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

50 0 50 100
HORIZONTAL SCALE: 1"=50'-0"

FILE NAME = D264D70-sht-Drain-001.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

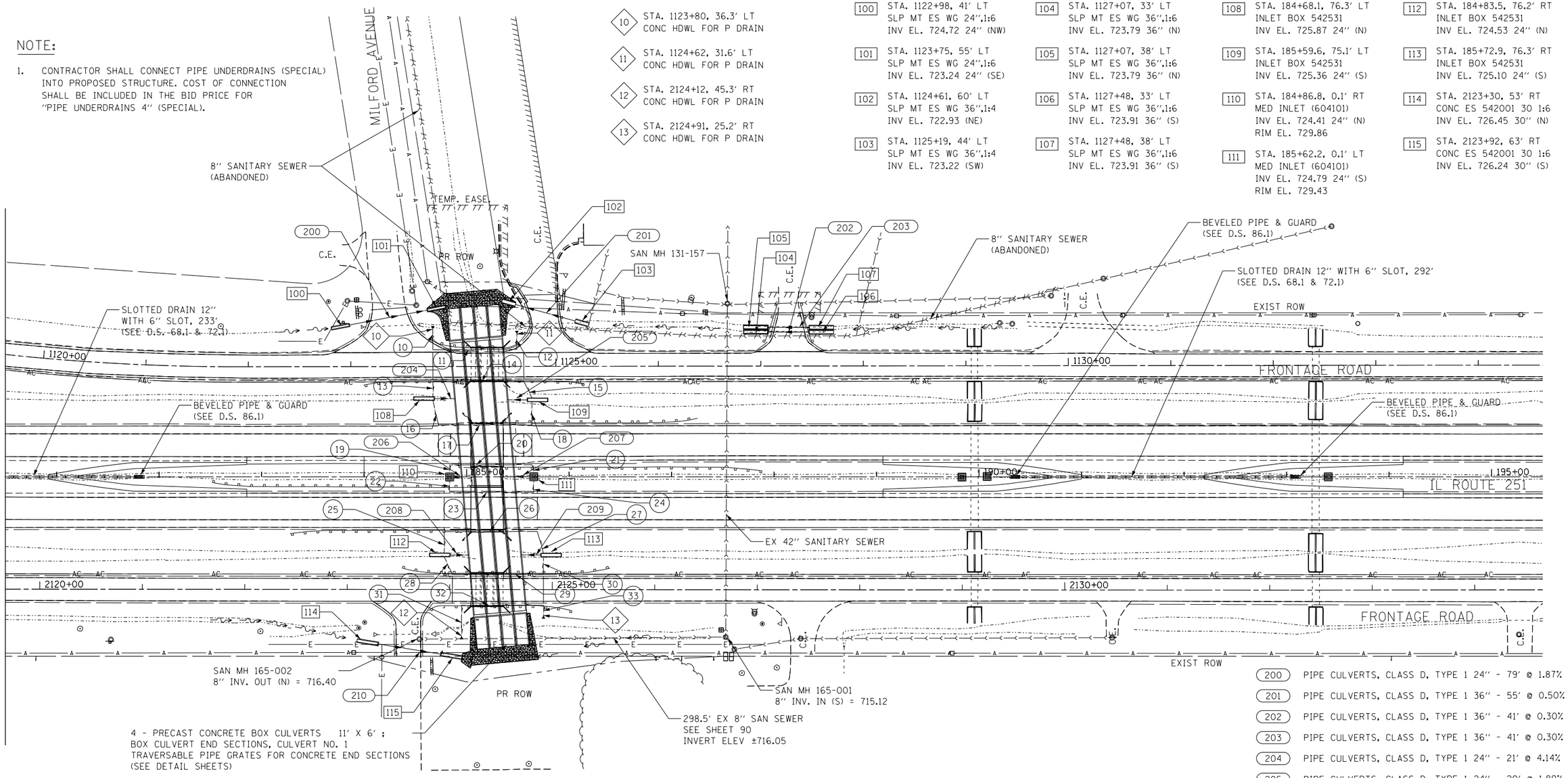
IL. ROUTE 251
DRAINAGE PLAN

SHEET NO. 1 OF 2 SHEETS | STA. 166+00 | TO STA. 180+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	76
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTE:

1. CONTRACTOR SHALL CONNECT PIPE UNDERDRAINS (SPECIAL) INTO PROPOSED STRUCTURE. COST OF CONNECTION SHALL BE INCLUDED IN THE BID PRICE FOR "PIPE UNDERDRAINS 4" (SPECIAL).



10 STA. 1123+80, 36.3' LT
CONC HDWL FOR P DRAIN

11 STA. 1124+62, 31.6' LT
CONC HDWL FOR P DRAIN

12 STA. 2124+12, 45.3' RT
CONC HDWL FOR P DRAIN

13 STA. 2124+91, 25.2' RT
CONC HDWL FOR P DRAIN

100 STA. 1122+98, 41' LT
SLP MT ES WG 24",1:6
INV EL. 724.72 24" (NW)

101 STA. 1123+75, 55' LT
SLP MT ES WG 24",1:6
INV EL. 723.24 24" (SE)

102 STA. 1124+61, 60' LT
SLP MT ES WG 36",1:4
INV EL. 722.93 (NE)

103 STA. 1125+19, 44' LT
SLP MT ES WG 36",1:4
INV EL. 723.22 (SW)

104 STA. 1127+07, 33' LT
SLP MT ES WG 36",1:6
INV EL. 723.79 36" (N)

105 STA. 1127+07, 38' LT
SLP MT ES WG 36",1:6
INV EL. 723.79 36" (N)

106 STA. 1127+48, 33' LT
SLP MT ES WG 36",1:6
INV EL. 723.91 36" (S)

107 STA. 1127+48, 38' LT
SLP MT ES WG 36",1:6
INV EL. 723.91 36" (S)

108 STA. 184+68.1, 76.3' LT
INLET BOX 542531
INV EL. 725.87 24" (N)

109 STA. 185+59.6, 75.1' LT
INLET BOX 542531
INV EL. 725.36 24" (S)

110 STA. 184+86.8, 0.1' RT
MED INLET (604101)
INV EL. 724.41 24" (N)
RIM EL. 729.86

111 STA. 185+62.2, 0.1' LT
MED INLET (604101)
INV EL. 724.79 24" (S)
RIM EL. 729.43

112 STA. 184+83.5, 76.2' RT
INLET BOX 542531
INV EL. 724.53 24" (N)

113 STA. 185+72.9, 76.3' RT
INLET BOX 542531
INV EL. 725.10 24" (S)

114 STA. 2123+30, 53' RT
CONC ES 542001 30 1:6
INV EL. 726.45 30" (N)

115 STA. 2123+92, 63' RT
CONC ES 542001 30 1:6
INV EL. 726.24 30" (S)

(10) PIPE UNDERDRAINS 4" (SPECIAL) - 20'
(11) PIPE UNDERDRAINS, TYPE 1, 4" - 82'
(12) PIPE UNDERDRAINS 4" (SPECIAL) - 15'
(13) PIPE UNDERDRAINS 4" (SPECIAL) - 15' (SEE NOTE 1)
(14) PIPE UNDERDRAINS, TYPE 1, 4" - 89'
(15) PIPE UNDERDRAINS 4" (SPECIAL) - 18' (SEE NOTE 1)
(16) PIPE UNDERDRAINS 4" (SPECIAL) - 24' (SEE NOTE 1)
(17) PIPE UNDERDRAINS, TYPE 1, 4" - 91'
(18) PIPE UNDERDRAINS 4" (SPECIAL) - 23' (SEE NOTE 1)
(19) PIPE UNDERDRAINS 4" (SPECIAL) - 8' (SEE NOTE 1)
(20) PIPE UNDERDRAINS, TYPE 1, 4" - 80'
(21) PIPE UNDERDRAINS 4" (SPECIAL) - 8' (SEE NOTE 1)
(22) PIPE UNDERDRAINS 4" (SPECIAL) - 11' (SEE NOTE 1)
(23) PIPE UNDERDRAINS, TYPE 1, 4" - 81'
(24) PIPE UNDERDRAINS 4" (SPECIAL) - 11' (SEE NOTE 1)
(25) PIPE UNDERDRAINS 4" (SPECIAL) - 21' (SEE NOTE 1)
(26) PIPE UNDERDRAINS, TYPE 1, 4" - 82'
(27) PIPE UNDERDRAINS 4" (SPECIAL) - 22' (SEE NOTE 1)
(28) PIPE UNDERDRAINS 4" (SPECIAL) - 19' (SEE NOTE 1)
(29) PIPE UNDERDRAINS, TYPE 1, 4" - 89'
(30) PIPE UNDERDRAINS 4" (SPECIAL) - 17' (SEE NOTE 1)
(31) PIPE UNDERDRAINS 4" (SPECIAL) - 30'
(32) PIPE UNDERDRAINS, TYPE 1, 4" - 91'
(33) PIPE UNDERDRAINS 4" (SPECIAL) - 10'

(200) PIPE CULVERTS, CLASS D, TYPE 1 24" - 79' @ 1.87%
(201) PIPE CULVERTS, CLASS D, TYPE 1 36" - 55' @ 0.50%
(202) PIPE CULVERTS, CLASS D, TYPE 1 36" - 41' @ 0.30%
(203) PIPE CULVERTS, CLASS D, TYPE 1 36" - 41' @ 0.30%
(204) PIPE CULVERTS, CLASS D, TYPE 1 24" - 21' @ 4.14%
(205) PIPE CULVERTS, CLASS D, TYPE 1 24" - 20' @ 1.89%
(206) PIPE CULVERTS, CLASS D, TYPE 1 24" - 9' @ 1.00%
(207) PIPE CULVERTS, CLASS D, TYPE 1 24" - 16' @ 1.00%
(208) PIPE CULVERTS, CLASS D, TYPE 1 24" - 19' @ 1.00%
(209) PIPE CULVERTS, CLASS D, TYPE 1 24" - 20' @ 1.00%
(210) PIPE CULVERTS, CLASS A, TYPE 1 30" - 63' @ 0.35%

N

50 0 50 100
HORIZONTAL SCALE: 1"=50'-0"

PLAN — SURVEYED, PLOTTED, DRAWN, CHECKED, QUANTITY CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE — SURVEYED, PLOTTED, DRAWN, CHECKED, BM. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = 0264070-sht-Drain-002.dgn

KNIGHT
Engineers & Architects

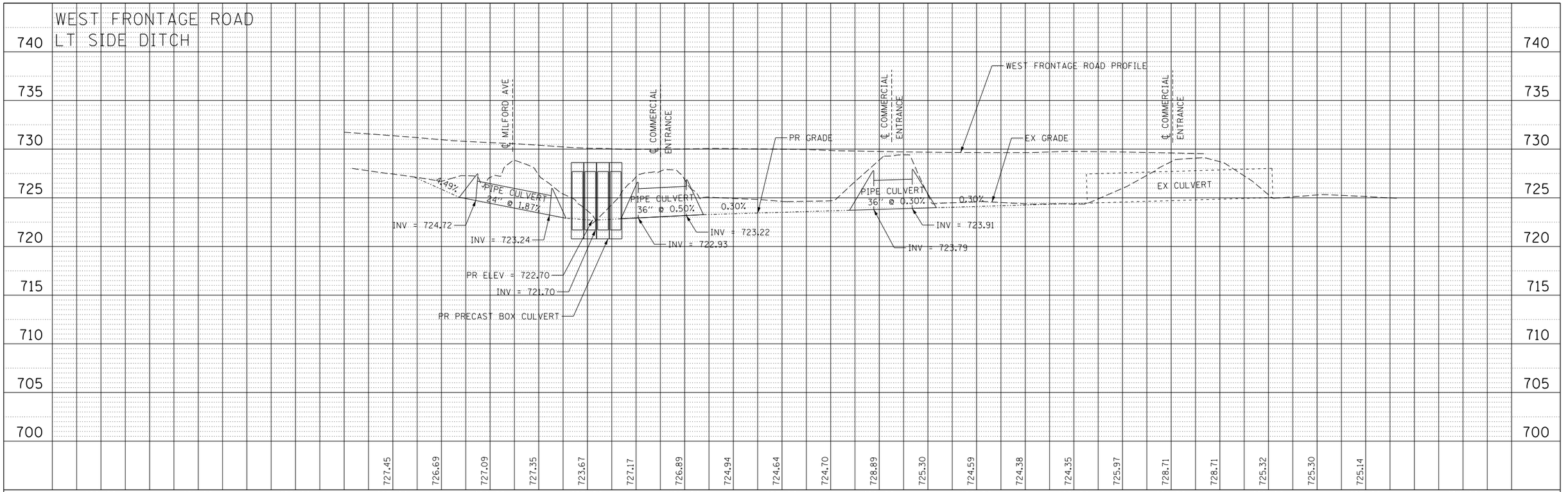
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DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

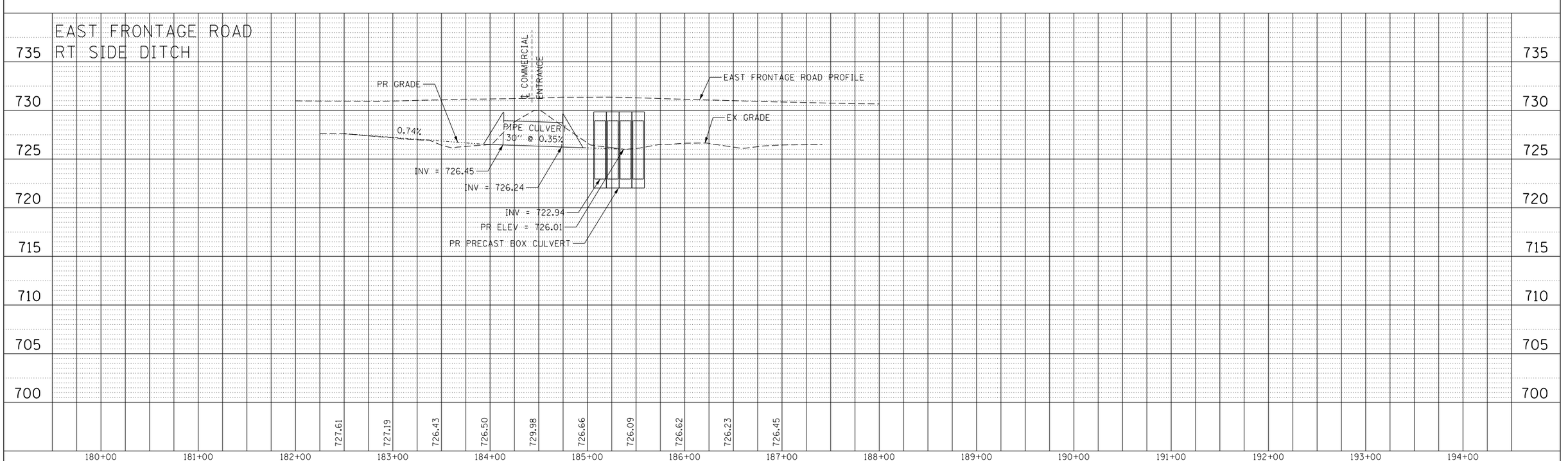
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
DRAINAGE PLAN

SHEET NO. 2 OF 2 SHEETS | STA. 180+50 | TO STA. 195+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	77
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





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

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

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
DRAINAGE PROFILE

SCALE: 1" = 50' | SHEET 1 OF 3 SHEETS | STA. 179+50 | TO STA. 194+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	78
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			

SB IL 251
WEST DITCH

740
735
730
725
720
715
710
705

SB IL 251 ROADWAY PROFILE
PR GRADE
EX GRADE
PR INV = 725.87
STORM SEWER, 24" @ 4.14%
PR INV = 725.00
PR INV = 725.36
STORM SEWER, 24" @ 1.89%
PR INV = 725.00

729.43	728.71	728.63	728.62	728.35	728.06	727.92	728.01	727.72	727.35	727.14	726.98	726.89	724.88	725.63	726.55	726.51	726.51	726.59	726.32	726.30	726.43	726.23	724.50	726.23	726.43	726.60	726.65	726.64	726.51	725.98
179+00			180+00			181+00			182+00			183+00			184+00			185+00			186+00			187+00			188+00			189+00		
190+00			191+00			192+00			193+00																					

IL 251
MEDIAN DITCH

740
735
730
725
720
715
710
705

PR RIM ELEV = 731.68
PR GRADE
EX INLET BOX
PR RIM ELEV = 729.86
PR INLET BOX
INV = 724.41
STORM SEWER, 12" @ 1.00%
INV = 724.32
PR RIM ELEV = 729.43
NB IL 251 ROADWAY PROFILE
EX GRADE
PR INLET BOX
INV = 724.79
STORM SEWER, 12" @ 1.00%
INV = 724.33
PR RIM ELEV = 728.92
EX INLET BOX
PR RIM ELEV = 729.58
EX INLET BOX
PR RIM ELEV = 729.66
EX INLET BOX

731.81	731.36	731.52	731.71	731.66	731.41	731.20	731.01	730.98	730.72	730.49	730.24	730.03	729.23	729.75	729.62	729.69	729.55	729.60	729.62	729.62	729.51	729.25	729.79	729.39	729.67	729.70	729.77	729.85	730.04	729.85
179+00			180+00			181+00			182+00			183+00			184+00			185+00			186+00			187+00			188+00			189+00		
190+00			191+00			192+00			193+00																					

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

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

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

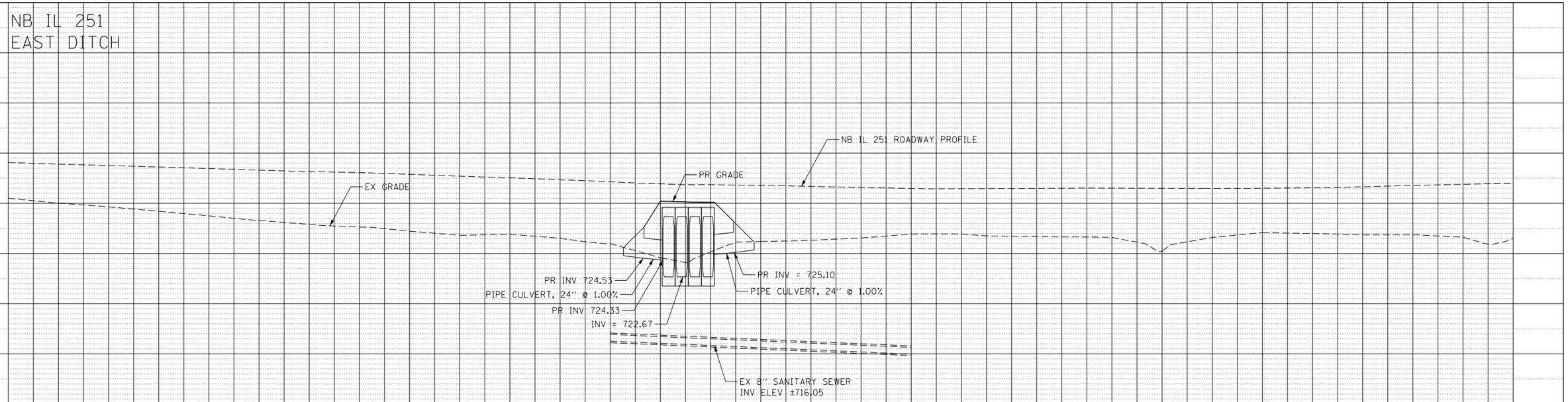
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
DRAINAGE PROFILE

SCALE: 1" = 50' | SHEET 2 OF 3 SHEETS | STA. 178+50 | TO STA. 193+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	79
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			

NB IL 251
EAST DITCH



730.51	730.02	729.65	729.22	728.75	728.29	727.90	727.64	727.21	726.81	726.91	726.52	725.98	724.57	725.16	726.20	726.31	726.55	726.94	726.94	726.72	726.66	726.60	725.23	726.60	727.07	726.99	726.86	726.86	726.63	726.50
179+00			180+00			181+00			182+00			183+00			184+00			185+00			186+00			187+00			188+00			189+00			190+00			191+00			192+00			193+00

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

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

KNIGHT
Engineers & Architects

	DESIGNED - DJC	REVISED -	
	DRAWN - DJC	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

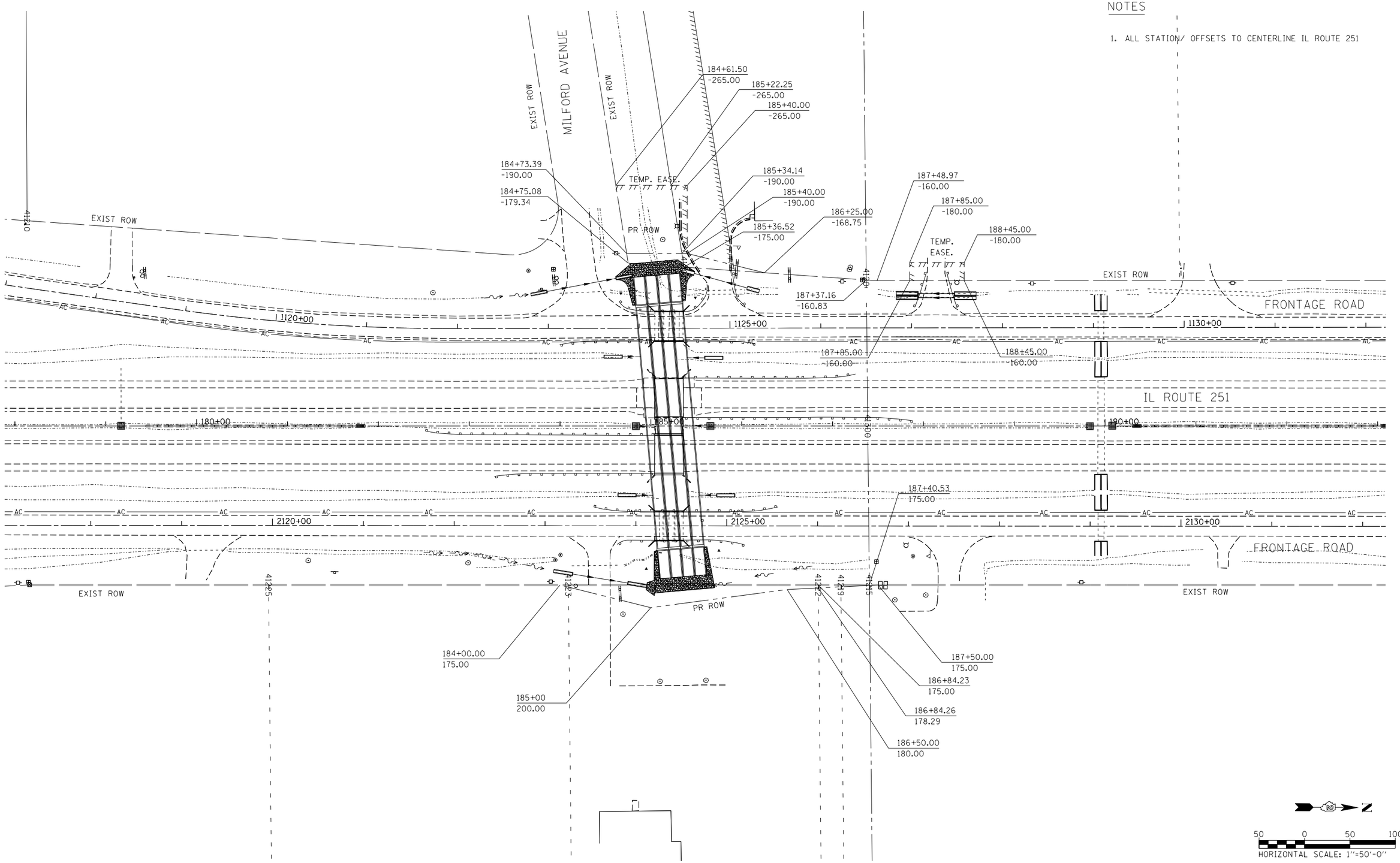
IL. ROUTE 251
DRAINAGE PROFILE

SCALE: 1" = 50' | SHEET 3 OF 3 SHEETS | STA. 178+50 | TO STA. 193+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	80
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			

NOTES

1. ALL STATION/ OFFSETS TO CENTERLINE IL ROUTE 251



PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / PRT. OF MAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY / DATE

FILE NAME = D264D70-sht-ROW-001.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
RIGHT–OF–WAY PLAN

SHEET NO. 1 OF 1 SHEETS | STA. 178+00 | TO STA. 193+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	81
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT MARKING LEGEND

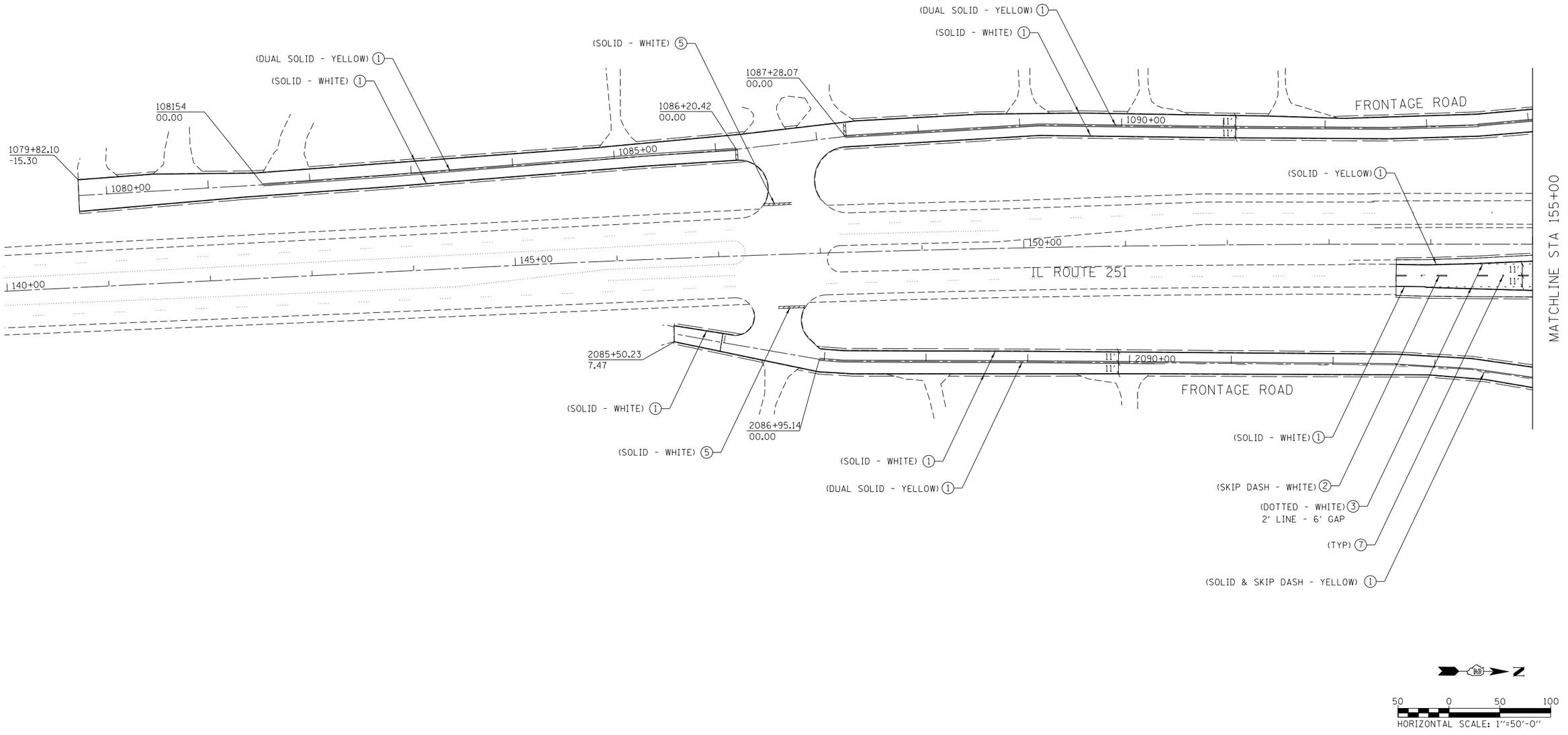
1. THERMOPLASTIC PAVEMENT MARKING - LINE 4''
2. THERMOPLASTIC PAVEMENT MARKING - LINE 6''
3. THERMOPLASTIC PAVEMENT MARKING - LINE 8''
4. THERMOPLASTIC PAVEMENT MARKING - LINE 12''
5. THERMOPLASTIC PAVEMENT MARKING - LINE 24''
6. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
7. RAISED REFLECTIVE PAVEMENT MARKER (STD 781001 & D2 STD 41.1)

NOTE:

THERMOPLASTIC PAVEMENT MARKINGS ON IL RTE 251 SHALL BE PLACED IN RECESSED GROOVES ACCORDING TO THE SPECIAL PROVISION.

PLAN — DATE / BY / SURVEYED / PLOTTED / PAVEMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO.

PROFILE — DATE / BY / SURVEYED / PLOTTED / PAVEMENT CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO.



FILE NAME = D264D70-sht-Sign_Pmk-001.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
SIGNING AND PAVEMENT MARKING PLAN

SHEET NO. 1 OF 8 SHEETS | STA. 140+00 | TO STA. 155+00

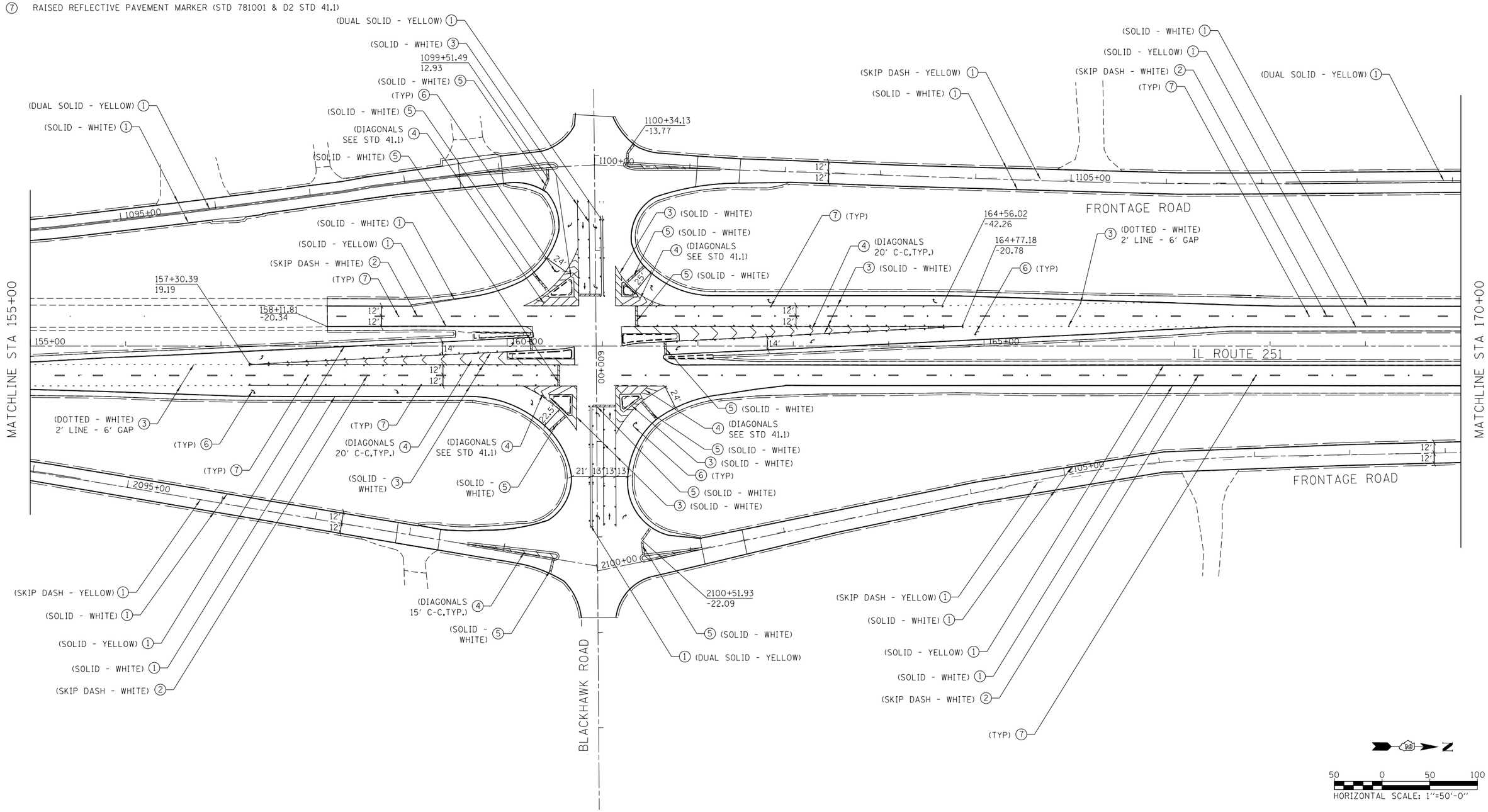
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	82
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT MARKING LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 4''
2. THERMOPLASTIC PAVEMENT MARKING - LINE 6''
3. THERMOPLASTIC PAVEMENT MARKING - LINE 8''
4. THERMOPLASTIC PAVEMENT MARKING - LINE 12''
5. THERMOPLASTIC PAVEMENT MARKING - LINE 24''
6. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
7. RAISED REFLECTIVE PAVEMENT MARKER (STD 781001 & D2 STD 41.1)

NOTE:

THERMOPLASTIC PAVEMENT MARKINGS ON IL RTE 251 SHALL BE PLACED IN RECESSED GROOVES ACCORDING TO THE SPECIAL PROVISION.



PLAN: SURVEYED, PLOTTED, QUANTITIES CHECKED, R.P. OF MAY CHECKED, CADD FILE NAME, NOTE BOOK NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, QUANTITIES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK NO., BY, DATE

FILE NAME = D264D70-sht-Sign_Pmk-002.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
SIGNING AND PAVEMENT MARKING PLAN

SHEET NO. 2 OF 8 SHEETS | STA. 155+00 | TO STA. 170+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	83
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT MARKING LEGEND

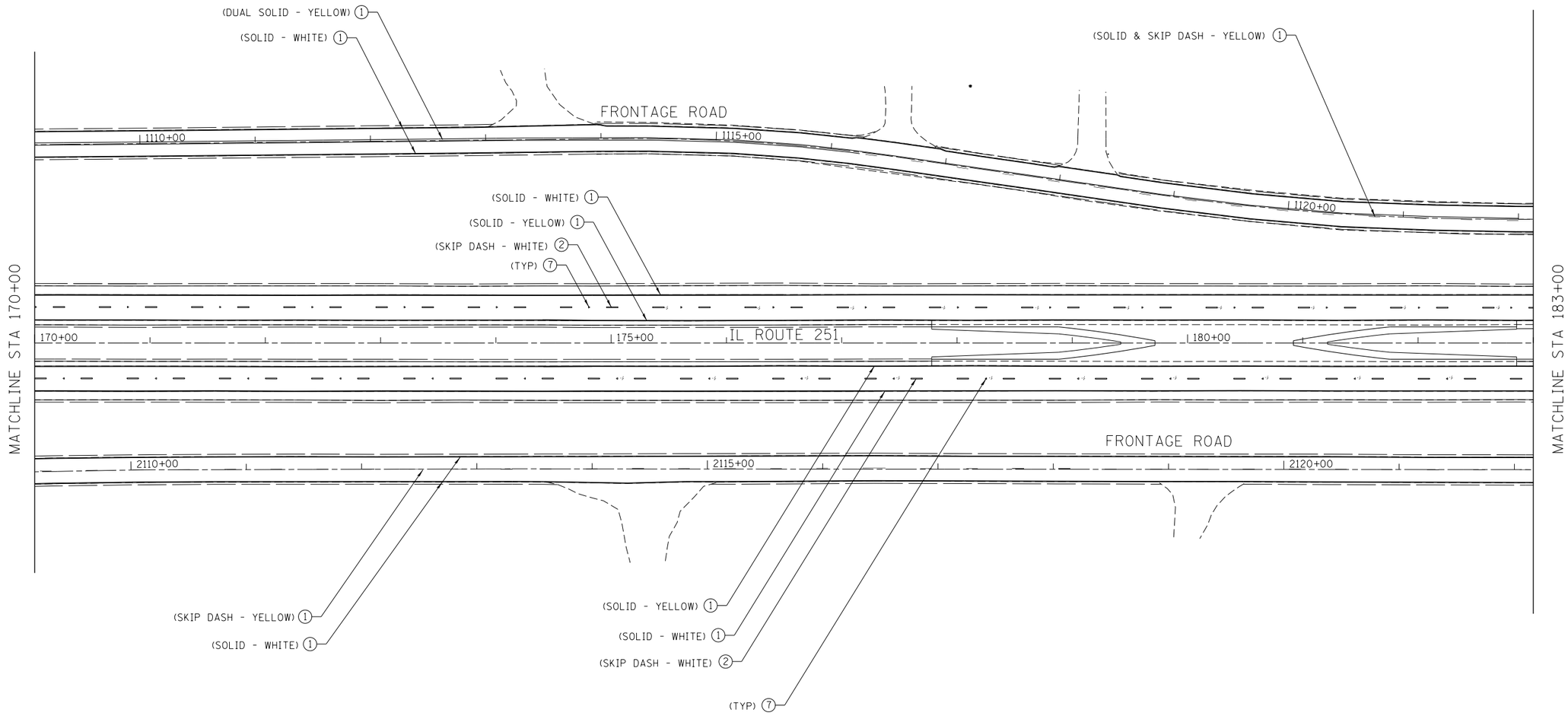
1. THERMOPLASTIC PAVEMENT MARKING - LINE 4''
2. THERMOPLASTIC PAVEMENT MARKING - LINE 6''
3. THERMOPLASTIC PAVEMENT MARKING - LINE 8''
4. THERMOPLASTIC PAVEMENT MARKING - LINE 12''
5. THERMOPLASTIC PAVEMENT MARKING - LINE 24''
6. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
7. RAISED REFLECTIVE PAVEMENT MARKER (STD 781001 & D2 STD 41.1)

NOTE:

THERMOPLASTIC PAVEMENT MARKINGS ON IL RTE 251 SHALL BE PLACED IN RECESSED GROOVES ACCORDING TO THE SPECIAL PROVISION.

PLAN | SURVEYED | PLOTTED | QUANTITIES CHECKED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE

PROFILE | SURVEYED | PLOTTED | QUANTITIES CHECKED | BM. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO. | BY | DATE



N

50 0 50 100

HORIZONTAL SCALE: 1''=50'-0''

FILE NAME = D264D70-sht-Sygn_Pmk-003.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
SIGNING AND PAVEMENT MARKING PLAN

SHEET NO. 3 OF 8 SHEETS | STA. 170+00 | TO STA. 183+00

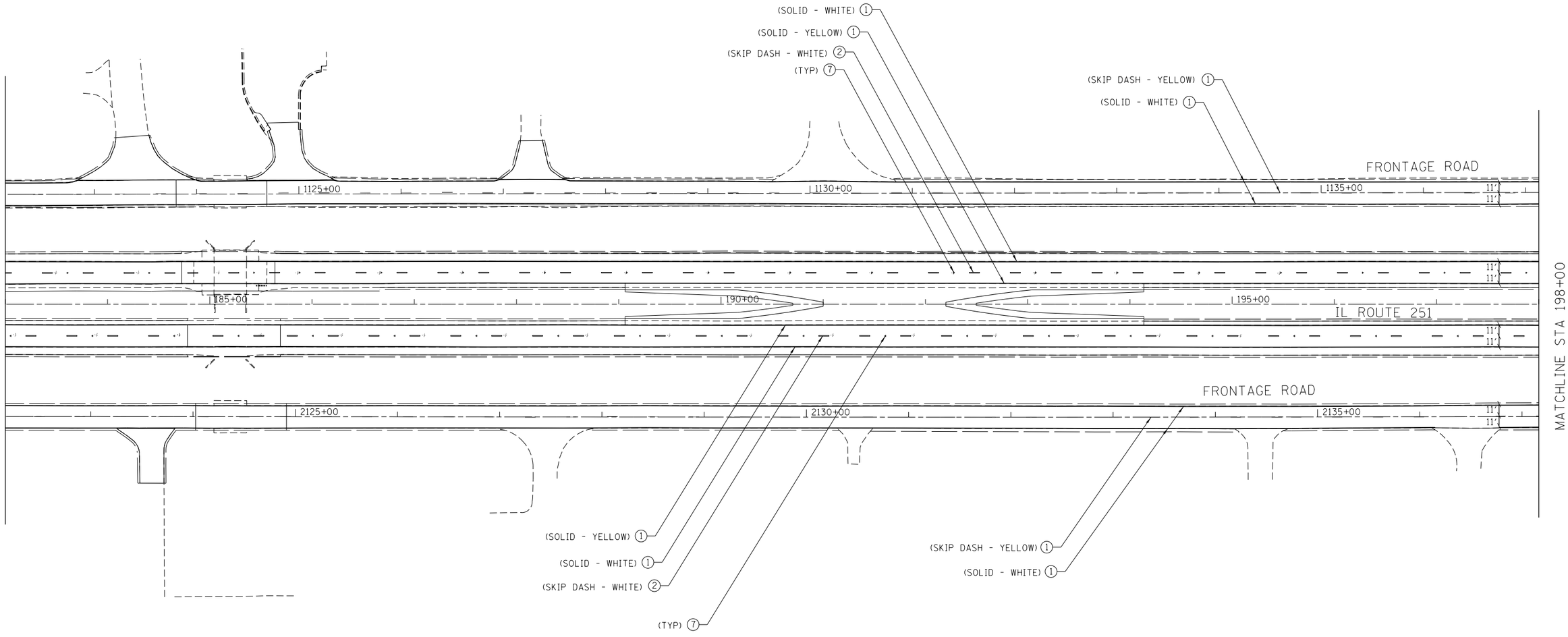
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5128	105RS-6 & 105BR-1	WINNEBAGO	154	84
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTE:

THERMOPLASTIC PAVEMENT MARKINGS ON IL RTE 251 SHALL BE PLACED IN RECESSED GROOVES ACCORDING TO THE SPECIAL PROVISION.

PAVEMENT MARKING LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 4''
2. THERMOPLASTIC PAVEMENT MARKING - LINE 6''
3. THERMOPLASTIC PAVEMENT MARKING - LINE 8''
4. THERMOPLASTIC PAVEMENT MARKING - LINE 12''
5. THERMOPLASTIC PAVEMENT MARKING - LINE 24''
6. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
7. RAISED REFLECTIVE PAVEMENT MARKER (STD 781001 & D2 STD 41.1)



N

50 0 50 100

HORIZONTAL SCALE: 1''=50'-0''

PLAN: SURVEYED, PLOTTED, DRAWN, CHECKED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, DRAWN, CHECKED, BM. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = D264070-sht-Sign_Pmk-004.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
SIGNING AND PAVEMENT MARKING PLAN

SHEET NO. 4 OF 8 SHEETS | STA. 183+00 | TO STA. 198+00

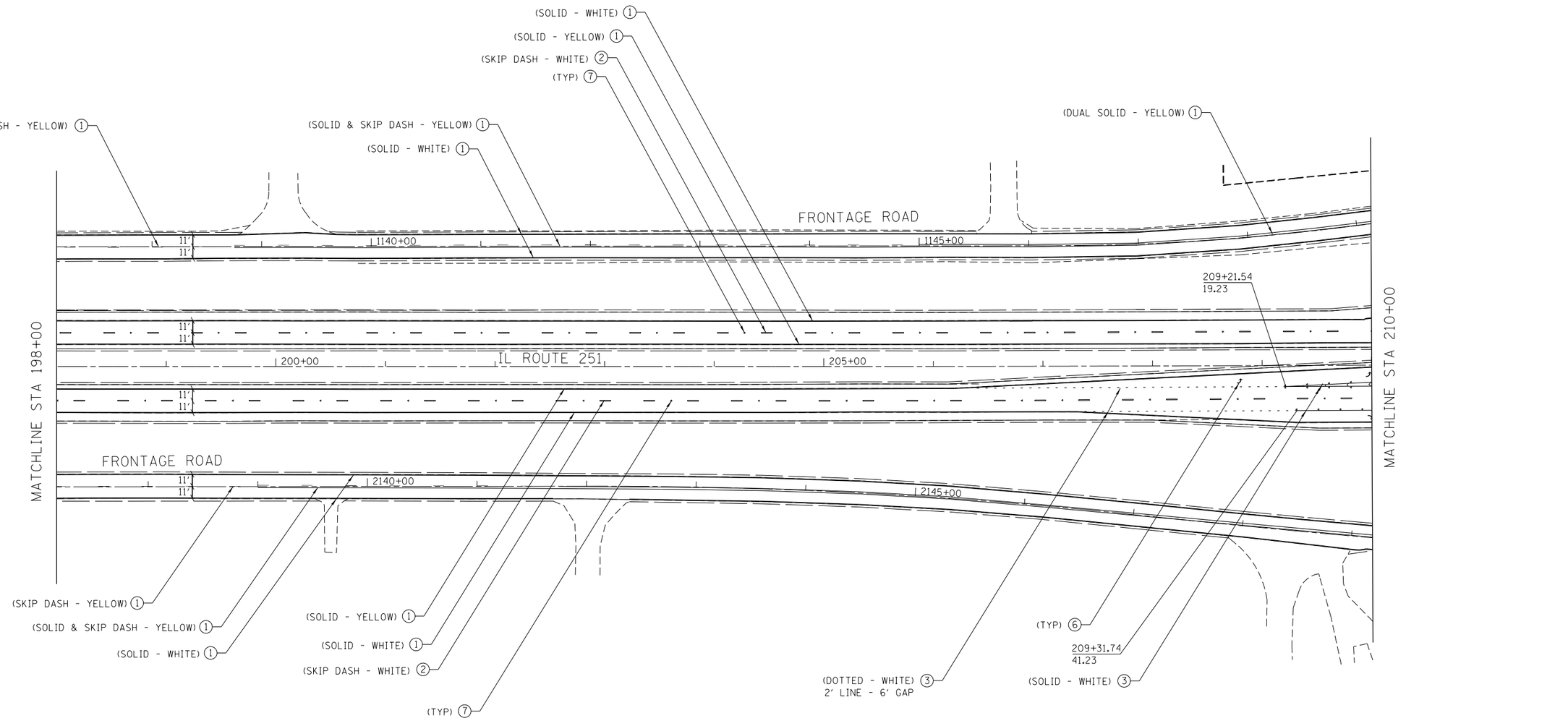
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	85
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT MARKING LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 4''
2. THERMOPLASTIC PAVEMENT MARKING - LINE 6''
3. THERMOPLASTIC PAVEMENT MARKING - LINE 8''
4. THERMOPLASTIC PAVEMENT MARKING - LINE 12''
5. THERMOPLASTIC PAVEMENT MARKING - LINE 24''
6. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
7. RAISED REFLECTIVE PAVEMENT MARKER (STD 781001 & D2 STD 41.1)

NOTE:

THERMOPLASTIC PAVEMENT MARKINGS ON IL RTE 251 SHALL BE PLACED IN RECESSED GROOVES ACCORDING TO THE SPECIAL PROVISION.



50 0 50 100
HORIZONTAL SCALE: 1''=50'-0''

PLAN: SURVEYED | PLOTTED | PLANS CHECKED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE

PROFILE: SURVEYED | PLOTTED | PLANS CHECKED | B.M. NOTED | STRUCTURE NOTAT'NS CHKD | NOTE BOOK | NO. | BY | DATE

FILE NAME = D264070-sht-Sign_Pmk-005.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
SIGNING AND PAVEMENT MARKING PLAN
SHEET NO. 5 OF 8 SHEETS | STA. 198+00 | TO STA. 210+00

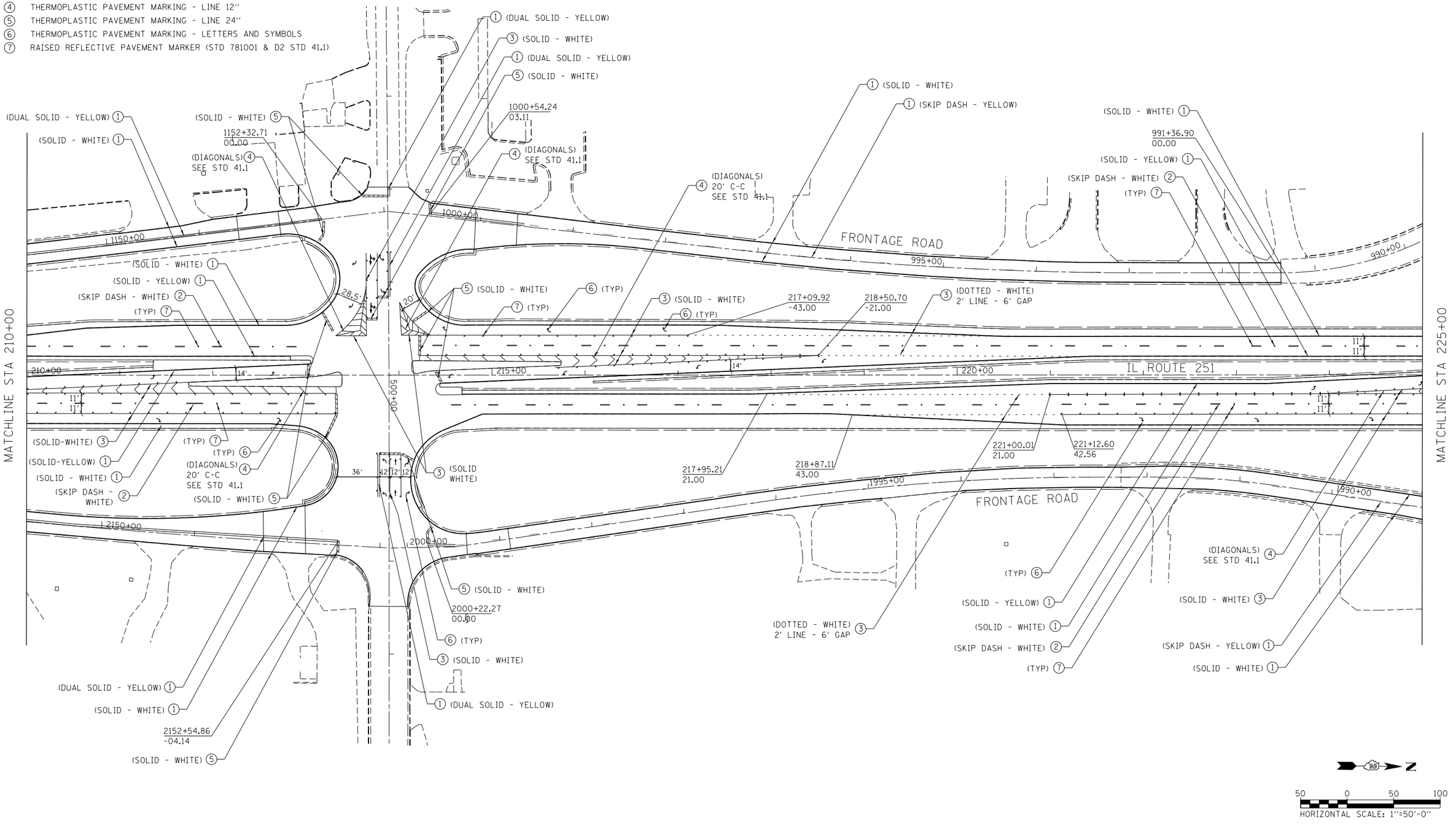
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	86
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAVEMENT MARKING LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 4''
2. THERMOPLASTIC PAVEMENT MARKING - LINE 6''
3. THERMOPLASTIC PAVEMENT MARKING - LINE 8''
4. THERMOPLASTIC PAVEMENT MARKING - LINE 12''
5. THERMOPLASTIC PAVEMENT MARKING - LINE 24''
6. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
7. RAISED REFLECTIVE PAVEMENT MARKER (STD 781001 & D2 STD 41.1)

NOTE:

THERMOPLASTIC PAVEMENT MARKINGS ON IL RTE 251 SHALL BE PLACED IN RECESSED GROOVES ACCORDING TO THE SPECIAL PROVISION.



HORIZONTAL SCALE: 1''=50'-0''

KNIGHT Engineers & Architects	DESIGNED - DJC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - DJC	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 12/14/2018	REVISED -	

IL. ROUTE 251
SIGNING AND PAVEMENT MARKING PLAN
SHEET NO. 6 OF 8 SHEETS | STA. 210+00 | TO STA. 225+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	87
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, PROFILE CHECKED, B.M. NOTED, STRUCTURE NOTAT'NS CHKD, NOTE BOOK, NO., BY, DATE

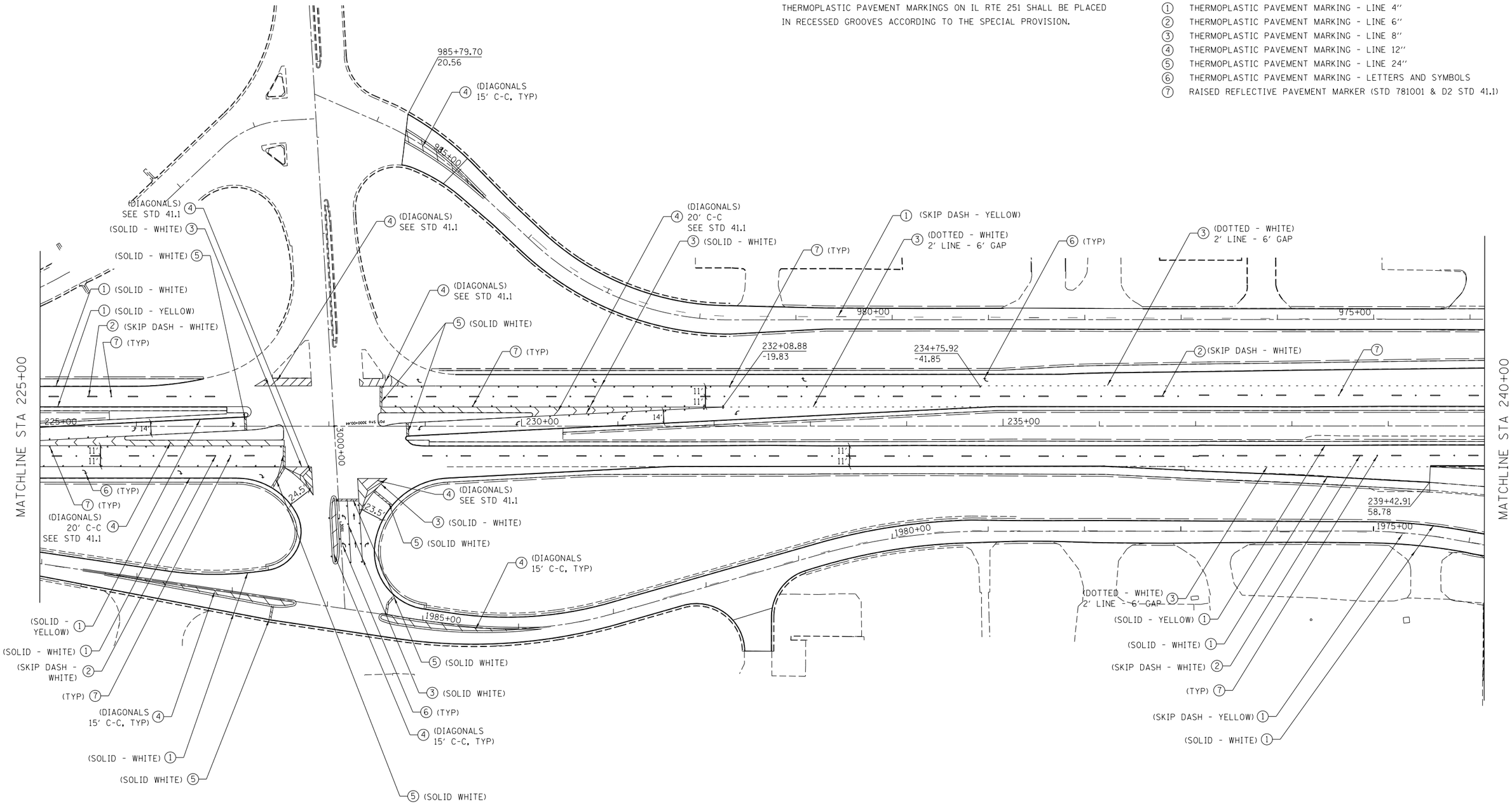
FILE NAME = D264D70-sht-Sign_Pmk-006.dgn

NOTE:

THERMOPLASTIC PAVEMENT MARKINGS ON IL RTE 251 SHALL BE PLACED IN RECESSED GROOVES ACCORDING TO THE SPECIAL PROVISION.

PAVEMENT MARKING LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 4''
2. THERMOPLASTIC PAVEMENT MARKING - LINE 6''
3. THERMOPLASTIC PAVEMENT MARKING - LINE 8''
4. THERMOPLASTIC PAVEMENT MARKING - LINE 12''
5. THERMOPLASTIC PAVEMENT MARKING - LINE 24''
6. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
7. RAISED REFLECTIVE PAVEMENT MARKER (STD 781001 & D2 STD 41.1)



50 0 50 100

HORIZONTAL SCALE: 1''=50'-0''

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, CROSS SECT. CHECKED, B.M. NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = D264D70-sht-Sign_Pmk-007.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
SIGNING AND PAVEMENT MARKING PLAN

SHEET NO. 7 OF 8 SHEETS | STA. 225+00 | TO STA. 240+00

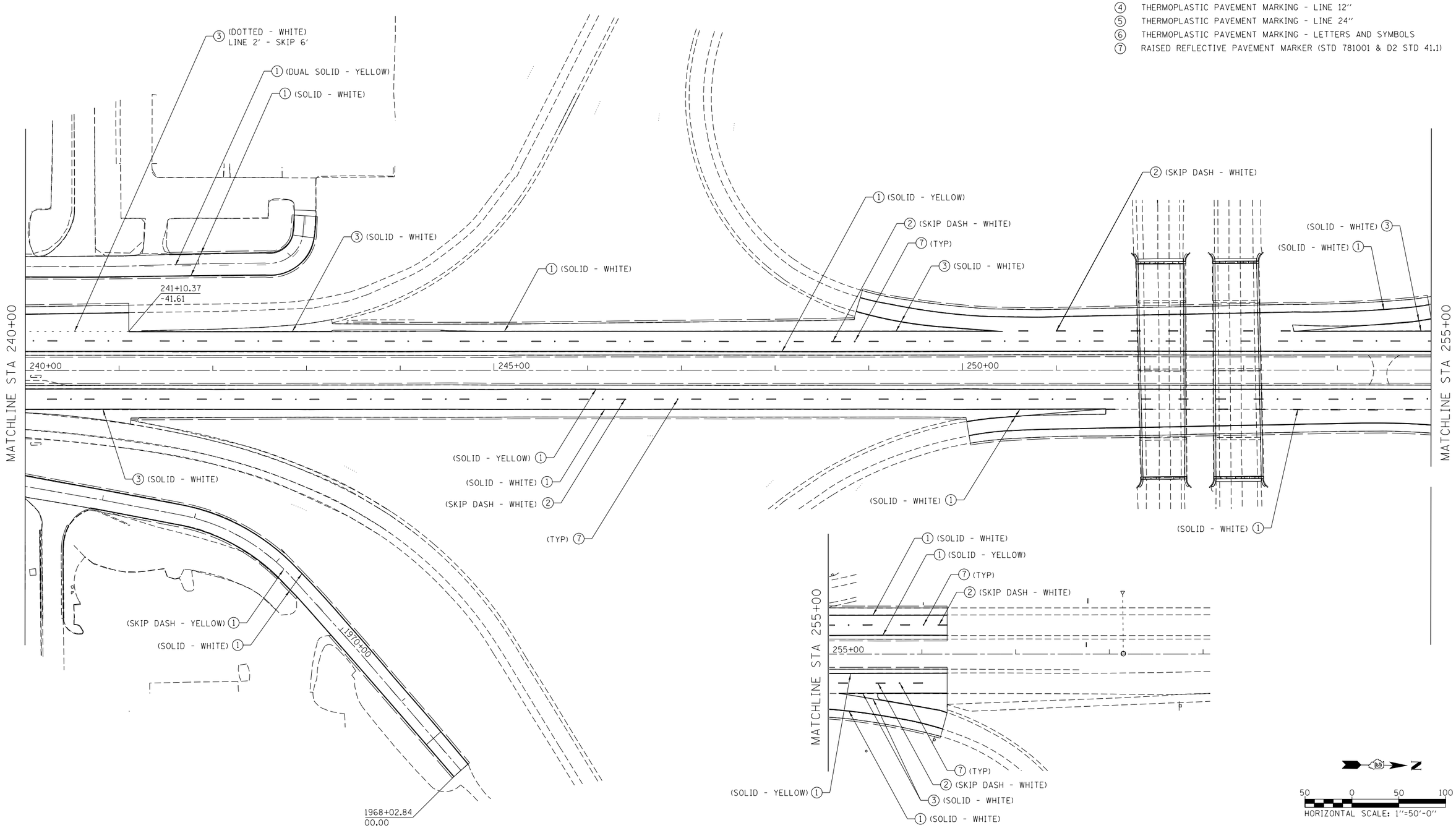
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	88
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTE:

THERMOPLASTIC PAVEMENT MARKINGS ON IL RTE 251 SHALL BE PLACED IN RECESSED GROOVES ACCORDING TO THE SPECIAL PROVISION.

PAVEMENT MARKING LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 4''
2. THERMOPLASTIC PAVEMENT MARKING - LINE 6''
3. THERMOPLASTIC PAVEMENT MARKING - LINE 8''
4. THERMOPLASTIC PAVEMENT MARKING - LINE 12''
5. THERMOPLASTIC PAVEMENT MARKING - LINE 24''
6. THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS
7. RAISED REFLECTIVE PAVEMENT MARKER (STD 781001 & D2 STD 41.1)



PLAN — SURVEYED, PLOTTED, PROJECT CHECKED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, NOTE BOOK, NO. ____, CADD FILE NAME ____, BY, DATE

PROFILE — SURVEYED, PLOTTED, PROJECT CHECKED, BM. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO. ____, BY, DATE

FILE NAME = D264D70-sht-Sign_Pmk-008.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 251
SIGNING AND PAVEMENT MARKING PLAN

SHEET NO. 8 OF 8 SHEETS | STA. 240+00 | TO STA. 256+27

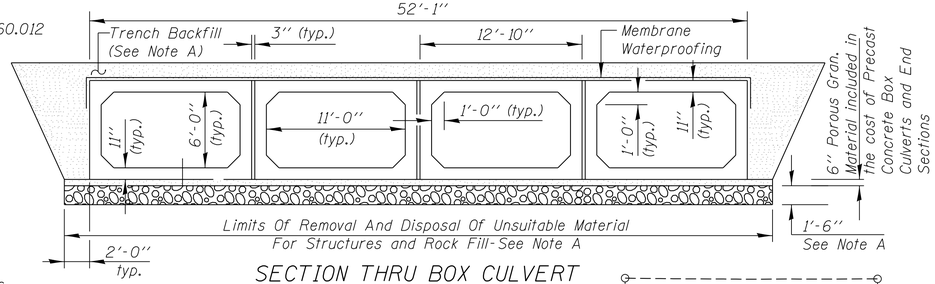
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	89
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Bench Mark: 89° 04′ 16.59245″ W 42° 12′ 33.05440″ N Cut Sq; W Edge of old sign foundation E of E Frontage Rd - Northeast corner IL 251 & Samuelson; Elev. 760.012

Existing Structure: The existing bridge structures numbered 101-0009 and 101-0010 are reinforced concrete slab bridges originally constructed in 1951 and reconstructed in 1985. Structure Numbers 101-2001 and 101-2002 are three (3) celled reinforced concrete box culverts and were constructed in 1958 with no work since.

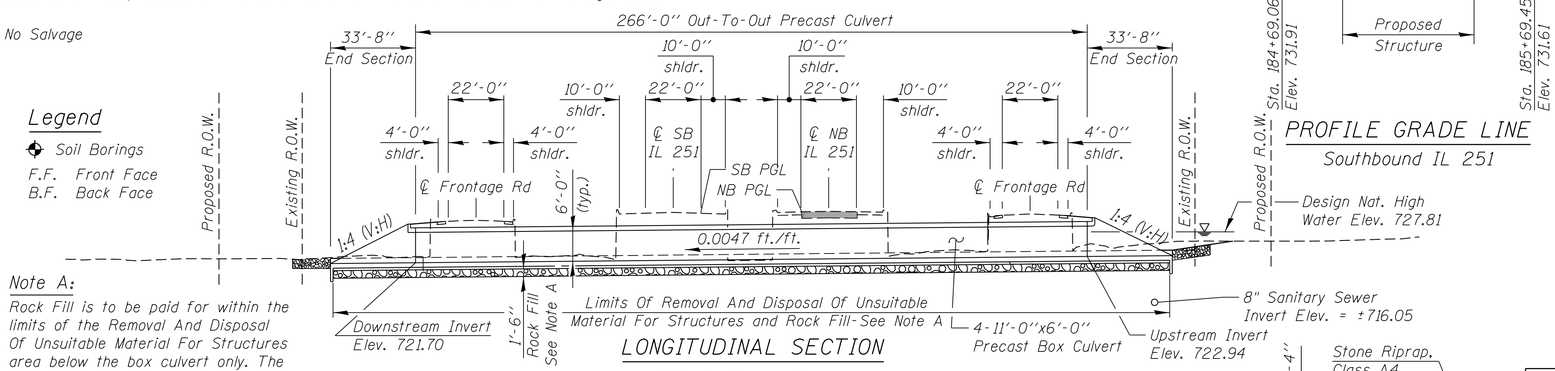
Proposed Structure: The proposed structure number 101-2050 will be a 266′ long (4) 11′x6′ precast concrete box culvert that will replace all four (4) of the existing structures and will extend across all four (4) roadways, medians and shoulders.

Staging: During construction one lane of traffic in each direction will be maintained on the northbound lanes with median cross-overs for Stage I, and will be moved to the southbound lanes via median cross-overs for Stage II construction. Road closures will be provided for the construction of the culvert across the frontage roads.



SECTION THRU BOX CULVERT

No Salvage



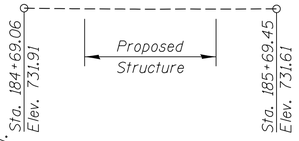
LONGITUDINAL SECTION

Legend

- Soil Borings
- F.F. Front Face
- B.F. Back Face

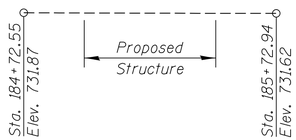
Note A:

Rock Fill is to be paid for within the limits of the Removal And Disposal Of Unsuitable Material For Structures area below the box culvert only. The remainder of the area needing to be backfilled shall be Trench Backfill and shall not be paid for separately. See General Note No. 8 on plan sheet No. 3.



PROFILE GRADE LINE

Southbound IL 251



PROFILE GRADE LINE

Northbound IL 251

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Stone Riprap, Class A4	Sq. Yd.	324
Filter Fabric	Sq. Yd.	324
Removal Of Existing Structures No. 1	Each	1
Removal Of Existing Structures No. 2	Each	1
Removal Of Existing Structures No. 3	Each	1
Removal Of Existing Structures No. 4	Each	1
Removal And Disposal Of Unsuitable Material For Structures	Cu. Yd.	1039
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 1	Each	8
Precast Concrete Box Culverts, 11′x6′	Foot	1064.0
Traversable Pipe Grate For Concrete End Sections	Foot	1190
Rock Fill	Ton	2130
Temporary Soil Retention System	Sq. Ft.	481
Membrane Waterproofing System For Buried Structures	Sq. Yd.	1569.0

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition, with 2015 & 2016 Interim Revisions

LOADING HL-93

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

PRECAST UNITS

f'_c = 5,000 psi

f_y = 65,000 psi (welded wire reinforcement)

WATERWAY INFORMATION

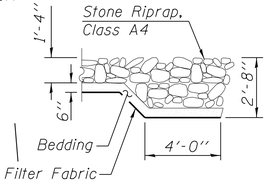
Drainage Area = 4.3 Sq. Mi.

Exisitng Low Grade Elev. 731.41 @ Sta. 188+45
Proposed Low Grade Elev. 731.41 @ Sta. 188+45

Flood	Freq. Yr.	Q C.F.S. Exist.	Q C.F.S. Prop.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
✳ Main Channel #1	10	480.95	-	31.7	31.7	727.52	0.02	0.01	727.54	727.53
✳ Relief Structure #2		85.33	-	22.8	22.8	727.52	0.02	0.01	727.54	727.53
✳ Relief Structure #3		139.71	-	96.9	147.0	727.52	0.02	0.01	727.54	727.53
Total		705.99	706	-	-	-	-	-	-	-
Main Channel #1	50	814.97	934.8	35.2	35.2	727.81	0.55	0.08	728.36	727.89
Relief Structure #2		196.38	130.07	26.3	26.3	727.81	0.55	0.08	728.36	727.89
Relief Structure #3		244.65	191.05	105.3	159.7	727.81	0.55	0.08	728.36	727.89
Total		1256	1256	-	-	-	-	-	-	-
Main Channel #1	100	1031	1165	36.6	36.6	727.93	1.14	0.33	729.07	728.26
Relief Structure #2		250	180	27.7	27.7	727.93	1.14	0.33	729.07	728.26
Relief Structure #3		30	236	108.8	165.0	727.93	1.14	0.33	729.07	728.26
Total		1581	1581	-	-	-	-	-	-	-
Main Channel #1	500	1915.25	2273.65	42.6	42.6	728.43	2.69	2.42	731.12	730.85
Relief Structure #2		850.65	582.75	33.7	33.7	728.43	2.69	2.42	731.12	730.85
Relief Structure #3		508.113	417.6	81.5	187.0	727.43	2.69	2.42	731.12	730.85
Total		3274.01	3274	-	-	-	-	-	-	-

10-Year Velocity through Existing Bridge = 3.1 fps
10-Year Velocity through Proposed Bridge = 4.84 fps

✳ Main Channel # 1 consists of existing Structure Numbers 101-0009, 0010, 2001 & 2002. Proposed Main Channel Structure Number is 101-2050
Relief Structure # 2 is Structure Number 101-1343 and is located 0.6 Miles north of Blackhawk Road
Relief Structure # 3 is Structure Number 101-1344 and is located 0.5 Miles north of Blackhawk Road

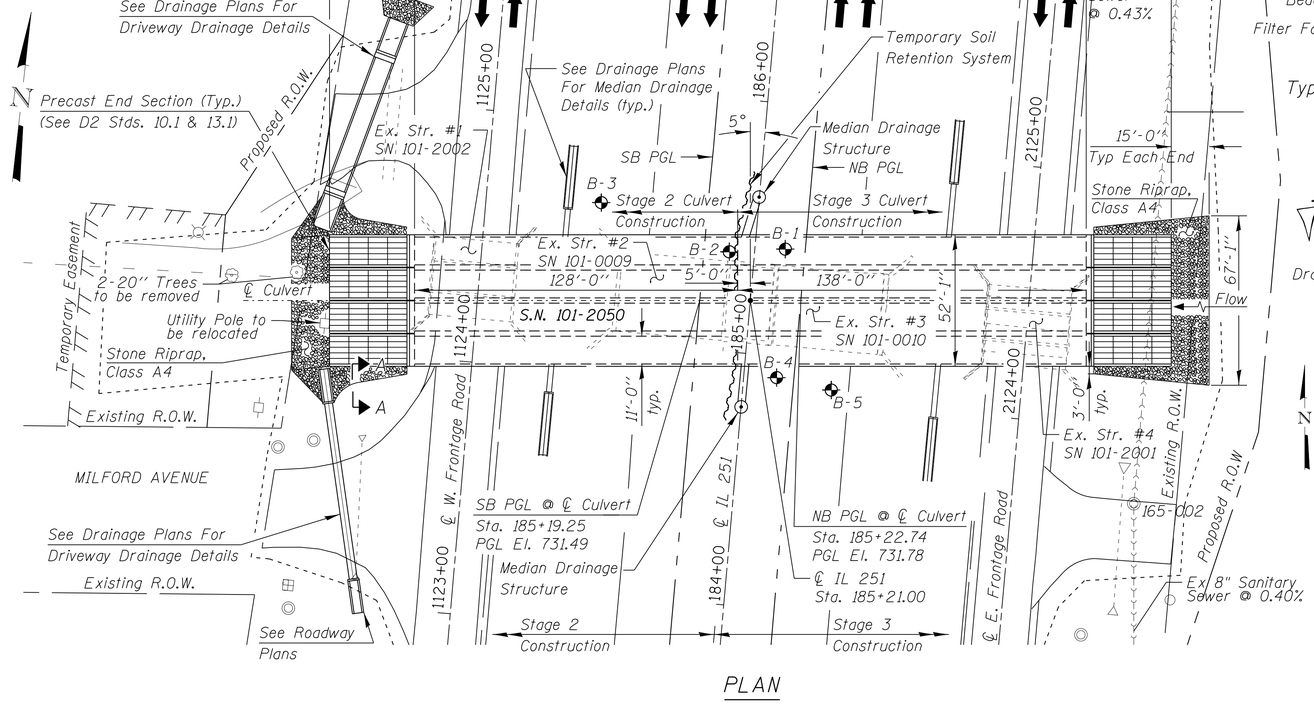


SECTION A-A

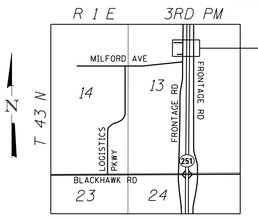
Typical at Riprap Sides

LICENSED STRUCTURAL ENGINEER
FRANK J. WILLIAMS
081-005037
STATE OF ILLINOIS

Expires 11-30-2020
Date: 1/21/2019
Drawings: SA-01 thru SA-02
Sheet Nos. 90 thru 91



PLAN



LOCATION SKETCH

PRECAST BOX CULVERT SCHEDULE (ASTM C 1577)

Station	Size (Span x Height)	Design Fill (ft.) Edge of Shldr. (min.)	Design Fill (ft.) Maximum	Rock Fill Required
185+21	(4) 11′ x 6′	1′	2.6′	Yes

GENERAL PLAN

IL 251 OVER UNNAMED DITCH
F.A.U. RTE. 5128
SEC. 105RS-6 & 105BR-1
WINNEBAGO COUNTY
STA. 185+21
STRUCTURE NO. 101-2050

KNIGHT
Engineers & Architects

	DESIGNED - FW	REVISED	
	CHECKED -	REVISED	
SCALE - NONE	DRAWN - DC	REVISED	
DATE - 1/21/2019	CHECKED - FW	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NUMBER 101–2050
DRAWING NO. SA-01 OF 15 DRAWINGS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	90
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES:

Reinforcement bars shall conform to the requirements of ASTM A706 GR 60 (IL modified). See Special Provision.

Exposed edges shall have a $\frac{3}{4}$" chamfer.

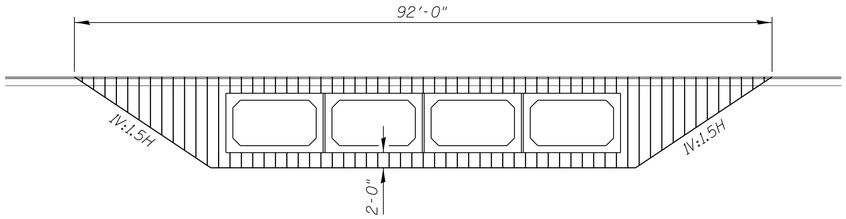
Precast concrete box culvert slab & wall thickness taken from ASTM material specifications. If fabricator chooses to alter dimensions, it must be approved by the Engineer, and the calculations shall be prepared and sealed by an Illinois Licensed Structural Engineer.

Box culvert end sections are to be precast. Contractor has the option of using cast-in-place end sections, but the design of the reinforcement is the Contractor's responsibility and shall be sealed by a Licensed Structural Engineer. If the Contractor elects to use cast-in-place end sections, no adjustments in costs of the end sections will be allowed.

The precast concrete box culvert shall conform to the requirements of ASTM C 1577 (Design fill height < 2')

A cantilevered sheet pilling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

Structure Excavation below the box culvert and end sections, and grading around ends of the culvert shall not be paid for separately, but shall be included in the contract unit price for Precast Concrete Box Culverts 11'x6'.



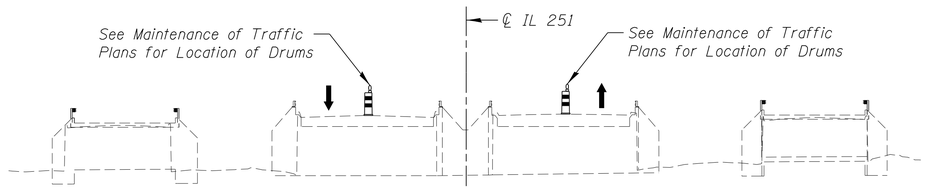
TEMPORARY SOIL RETENTION LIMITS ELEVATION VIEW

Stage 2 (Refer to MOT Plans for Plan View)

STATION 185+21.00
BUILT 20 BY
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. RTE. 5128 SEC. 105BR-1
LOADING HL-93
STRUCTURE NO. 101-2050

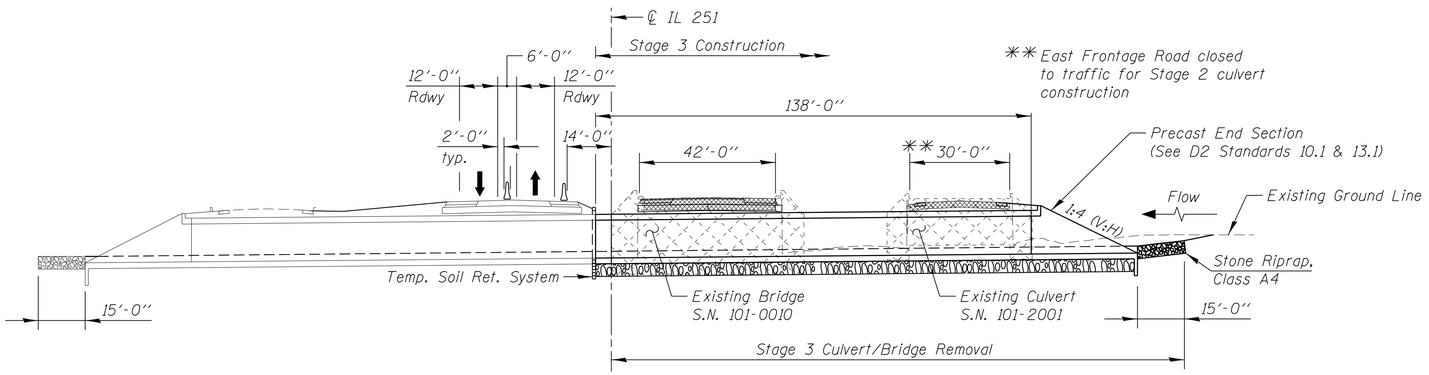
NAME PLATE

See Std. 515001



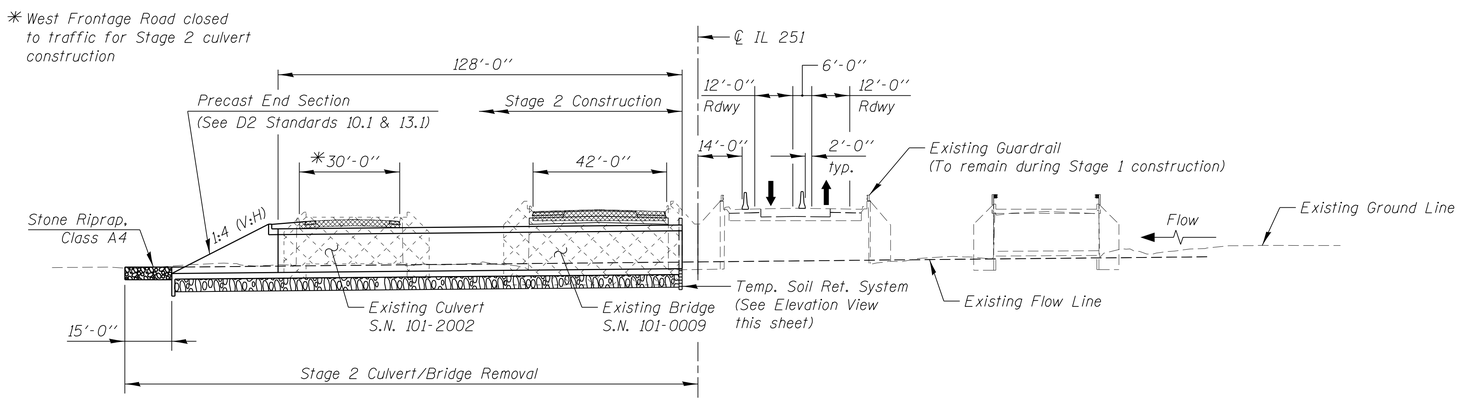
STAGE 1 CONSTRUCTION SECTION

(Looking North @ Rt. Angle to ℄ IL-251)



STAGE 3 CONSTRUCTION SECTION

(Looking North @ Rt. Angle to ℄ IL-251)



STAGE 2 CONSTRUCTION SECTION

(Looking North @ Rt. Angle to ℄ IL-251)

Culvert Related Construction Staging Notes and Sequence:

Stage 1:
1. Construct median crossovers and Temporary Pavement

Stage 2:
1. Switch traffic to Northbound lanes
2. Remove existing bridge 101-0009 and existing culvert 101-2002
3. Construct proposed box culvert 101-2050 from downstream end to stage construction line
4. Construct median and driveway culverts
5. Install Temporary Soil Retention System and backfill culvert
6. Construct permanent pavement patches across Southbound roadway and West Frontage Road.

Stage 3:
1. Switch traffic to Southbound lanes
2. Remove existing bridge 101-0010 and existing culvert 101-2001
3. Construct proposed box culvert 101-2050 from stage construction line to upstream end.
4. Construct median and driveway culverts
5. Backfill culvert and remove Temporary Soil Retention System.
6. Construct permanent pavement patches across Northbound roadway and East Frontage Road.

Note: Milling and resurfacing will be done at the completion of Stage 3.

KNIGHT
Engineers & Architects

		DESIGNED - FW	REVISED
		CHECKED -	REVISED
SCALE - NONE		DRAWN - DC	REVISED
DATE - 1/21/2019		CHECKED - FW	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION
STRUCTURE NUMBER 101-2050
DRAWING NO. SA-02 OF 15 DRAWINGS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	91
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 8/15/06

ROUTE FAU 5128 **DESCRIPTION** P92-121-07 Box culvert on West Frontage, IL 251, .5m. N. of Blackhawk Road **LOGGED BY** W. Garza

SECTION (105 BR-1, 105FB-1 & 105FB-2_ **LOCATION** Rockford Twp. - 13 NW, **SEC.** , **TWP.** 43N, **RNG.** 1E,
Latitude , **Longitude**

COUNTY Winnebago **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME-45 Automatic

STRUCT. NO. _____
Station 133+96

BORING NO. B-1
Station 134+18
Offset 12.0 ft Rt CL
Ground Surface Elev. 731.30 ft

Surface Water Elev. 724.50 ft
Stream Bed Elev. 724.50 ft

Groundwater Elev.:
First Encounter 699.3 ft ▼
Upon Completion Dry ft
After _____ **Hrs.** _____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6" Asphalt				
				10
MEDIUM brown SANDY LOAM				
	729.30			
MEDIUM tan LOAM with GRAVEL		3		
		2	0.8	9
	727.80	3	P	
STIFF brown SANDY LOAM				
	-5	2		
		2	1.1	14
	725.30	5	S	
MEDIUM brown SANDY LOAM		1		
		2	0.6	14
		4	S	
	722.30			
MEDIUM tan clean medium coarse dry SAND	-10	2		
		5		
	720.30	13		
		8		
MEDIUM tan fine SAND		9		
		10		
	717.30			
STIFF tan SILTY CLAY				
	-15	1		
		3	1.2	23
	715.30	4	B	
VERY STIFF tan CLAY LOAM with SILTY LOAM lens		2		
		3	2.1	23
		5	B	
	712.30			
	-20	7		

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM tan dry clean medium coarse SAND *(continued)*		9		
	710.30	12		
DENSE tan dry clean medium coarse SAND with GRAVEL		15		
		19		
	707.80	26		
	-25	5		
MEDIUM tan fine SAND with moist SILT lens		10		
		11		
	704.80			
MEDIUM tan SILT with SAND lens		5		
		5	0.6	22
	702.80	6	B	
	-30	4		
VERY SOFT tan SILT		5	0.2	27
		8	P	
	699.80			
	▼	8		
MEDIUM tan fine SAND		9		
	697.80	12		
MEDIUM tan fine SAND with medium SAND lens	-35	9		
		12		
	695.30	13		
End of Boring				
	-40			

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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 8/15/06

ROUTE FAU 5128 **DESCRIPTION** P92-121-07 Box culvert on West Frontage, IL 251, .5m. N. of Blackhawk Road **LOGGED BY** W. Garza

SECTION (105 BR-1, 105FB-1 & 105FB-2_ **LOCATION** Rockford Twp. - 13 NW, **SEC.** , **TWP.** 43N, **RNG.** 1E,
Latitude , **Longitude**

COUNTY Winnebago **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME-45 Automatic

STRUCT. NO. _____
Station 133+96

BORING NO. B-2
Station 134+15
Offset 10.0 ft Lt CL
Ground Surface Elev. 731.10 ft

Surface Water Elev. _____ ft
Stream Bed Elev. 723.80 ft

Groundwater Elev.:
First Encounter 699.1 ft ▼
Upon Completion _____ ft
After _____ **Hrs.** _____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM black SILTY CLAY LOAM			0.8 P	15
	729.10			
VERY STIFF dark gray SILTY CLAY LOAM		2		
	728.10	3 5	2.3 B	21
VERY STIFF dark brown LOAM	-5	3		
		5 7	2.1 P	24
	725.10			
MEDIUM brown LOAM		1		
		3 5	0.9 B	21
	722.10			
LOOSE tan fine SAND	-10	3		
		2 3		
	719.60			
VERY STIFF tan SILTY CLAY with sine SAND lens		2		
	718.10	3 4	2.3 B	23
MEDIUM tan SILTY LOAM	-15	1		
		1 3	0.8 B	23
	715.10			
MEDIUM tan SILTY LOAM		1		
		2 2	0.8 S	24
	712.60			
	-20	3		
STIFF tan SILTY LOAM with fine SAND lens		6 8	1.8 S	14
	709.60			
MEDIUM tan dry clean medium coarse SAND with GRAVEL		6		
		12 17		
	707.10			
STIFF tan medium SAND with SILTY LOAM lens	-25	7		
		8 15	1.5 P	16
	705.10			
MEDIUM tan fine SAND with SILT lens		5		
		5 5		24
	702.10			
MEDIUM tan fine SAND with SILT lens	-30	2		
		5 8		
	700.10			
MEDIUM tan fine SAND		11		
		14 15		
	697.60			
LOOSE tan fine SAND	-35	1		
		3 6		
	695.10			
LOOSE/MEDIUM tan clean medium coarse SAND with GRAVEL		1		
		3 7		
	692.60			
	-40	1		

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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 8/15/06

ROUTE FAU 5128 **DESCRIPTION** P92-121-07 Box culvert on West Frontage, IL 251, .5m. N. of Blackhawk Road **LOGGED BY** W. Garza

SECTION (105 BR-1, 105FB-1 & 105FB-2_ **LOCATION** Rockford Twp. - 13 NW, **SEC.** , **TWP.** 43N, **RNG.** 1E,
Latitude , **Longitude**

COUNTY Winnebago **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME-45 Automatic

STRUCT. NO. _____
Station 133+96

BORING NO. B-2
Station 134+15
Offset 10.0 ft Lt CL
Ground Surface Elev. 731.10 ft

Surface Water Elev. _____ ft
Stream Bed Elev. 723.80 ft

Groundwater Elev.:
First Encounter 699.1 ft ▼
Upon Completion _____ ft
After _____ **Hrs.** _____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
DENSE tan fine SAND with medium GRAVEL *(continued)*	690.10	12 25		
End of Boring				
	-45			
	-50			
	-55			
	-60			

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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 8/17/06

ROUTE FAU 5128 **DESCRIPTION** P92-121-07 Box culvert on West Frontage, IL 251, .5m. N. of Blackhawk Road **LOGGED BY** W. Garza

SECTION (105 BR-1, 105FB-1 & 105FB-2_____) **LOCATION** Rockford Twp. - 13 NW, **SEC.** , **TWP.** 43N, **RNG.** 1E,
Latitude , **Longitude**

COUNTY Winnebago **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME-45 Automatic

STRUCT. NO. _____
Station 134+30

BORING NO. B-3
Station 134+30
Offset 31.0 ft Lt CL
Ground Surface Elev. 729.30 ft

Surface Water Elev. 723.00 ft
Stream Bed Elev. 722.50 ft

Groundwater Elev.:
First Encounter 696.8 ft ▼
Upon Completion Wash ft
After _____ **Hrs.** _____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
DRY tan LOAM				9
	726.80			
STIFF black SILTY CLAY LOAM		4		
		5	1.9	18
	725.30	7	B	
	-5			
VERY STIFF black LOAM		6		
		6	2.1	25
	722.80	8	P	
MEDIUM brown SANDY LOAM		3		
		3	0.6	13
	720.30	5	S	
	-10			
VERY SOFT tan dirty SAND with GRAVEL		1		
		2	0.3	21
	717.30	1	P	
MEDIUM tan dry fine SAND		3		
		5		
	714.80	9		
	-15			
MEDIUM tan SILTY CLAY with SAND lens		5		
		3	0.7	24
	712.80	3	P	
MEDIUM tan SILTY CLAY		3		
		3	0.8	24
	710.30	5	B	
	-20			

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
		4		
STIFF tan CLAY LOAM with clean medium SAND lens		9	1.8	21
		12	B	
	707.30			
MEDIUM tan dirty SAND & GRAVEL		3		
		5		
	705.30	9		
	-25			
MEDIUM tan fine SAND		6		
		8		
	702.30	6		
SOFT tan SILTY LOAM		0		
		1	0.3	25
	699.80	3	B	
	-30			
LOOSE tan moist fine SAND with SILTY LOAM		1		
		3		
	697.80	5		
MEDIUM tan fine SAND		7		
		8		
	695.30	12		
	-35			
MEDIUM tan fine SAND		3		
		5		
	692.80	6		
MEDIUM tan fine SAND		5		
		9		
	690.30	13		
	-40			

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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 8/17/06

ROUTE FAU 5128 **DESCRIPTION** P92-121-07 Box culvert on West Frontage, IL 251, .5m. N. of Blackhawk Road **LOGGED BY** W. Garza

SECTION (105 BR-1, 105FB-1 & 105FB-2_____) **LOCATION** Rockford Twp. - 13 NW, **SEC.** , **TWP.** 43N, **RNG.** 1E,
Latitude , **Longitude**

COUNTY Winnebago **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME-45 Automatic

STRUCT. NO. _____
Station 134+30

BORING NO. B-3
Station 134+30
Offset 31.0 ft Lt CL
Ground Surface Elev. 729.30 ft

Surface Water Elev. 723.00 ft
Stream Bed Elev. 722.50 ft

Groundwater Elev.:
First Encounter 696.8 ft ▼
Upon Completion Wash ft
After _____ **Hrs.** _____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
DENSE tan SAND & GRAVEL		20		
		17		
	687.80	23		
DENSE tan SAND & GRAVEL		16		
		16		
	685.30	25		
	-45			
VERY DENSE tan clean medium coarse SAND with GRAVEL		13		
		100/7"		
	682.80			
Wash		8		
DENSE tan clean medium coarse SAND with GRAVEL	680.30	13		
		20		
	-50			
VERY DENSE tan clean medium coarse SAND with GRAVEL		1		
		26		
	677.80	27		
Wash		19		
VERY DENSE tan SAND & GRAVEL	675.30	36		
		34		
End of Boring				
	-55			
	-60			

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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 8/18/06

ROUTE FAU 5128 **DESCRIPTION** P92-121-07 Box culvert on West Frontage, IL 251, .5m. N. of Blackhawk Road **LOGGED BY** W. Garza

SECTION (105 BR-1, 105FB-1 & 105FB-2_____ **LOCATION** Rockford Twp. - 13 NW, **SEC.** , **TWP.** 43N, **RNG.** 1E,
Latitude , **Longitude**

COUNTY Winnebago **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME-45 Automatic

STRUCT. NO. _____
Station 133+96

BORING NO. B-4
Station 133+67
Offset 44.5 ft Rt CL
Ground Surface Elev. 725.20 ft

Surface Water Elev. _____ ft
Stream Bed Elev. 722.70 ft

Groundwater Elev.:
First Encounter 693.2 ft ▼
Upon Completion Wash ft
After _____ **Hrs.** _____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM brown LOAM				
			0.9 P	13
	723.20			
		5		
STIFF brown LOAM		5	1.2 P	12
		6		
	721.20			
MEDIUM brown fine SAND	-5	7		
		6		
	719.20	6		
		8		
MEDIUM tan dry fine SAND		10		
	716.70	16		
		8		
MEDIUM tan dry fine SAND	-10	8		
		10		
	713.70			
SOFT tan SILT		2		
		1	0.3 P	27
	711.70	4		
MEDIUM tan SILTY CLAY	-15	2		
		3	0.8 B	22
	709.20	3		
		2		
STIFF tan SILTY CLAY with SAND lens		3	1.1 B	22
		5		
	706.20			
	-20	18		
DENSE tan dry clean medium coarse SAND *(continued)*				
	704.20	25		
		24		
		5		
MEDIUM tan fine SAND		12		
	701.20	14		
SOFT tan SILT	-25	3		
		3	0.3 B	25
	699.20	5		
		2		
MEDIUM tan SILT		4	0.3 B	23
	696.70	8		
	-30	6		
MEDIUM tan moist fine SAND with SILT lens		7	0.4 P	22
	694.20	12		
		7		
VERY STIFF tan CLAY LOAM with SAND lens		6	2.7 B	23
	691.20	7		
Wash	-35	2		
MEDIUM gray fine SAND		4		
	689.20	7		
	687.20			
	-40	4		

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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 8/18/06

ROUTE FAU 5128 **DESCRIPTION** P92-121-07 Box culvert on West Frontage, IL 251, .5m. N. of Blackhawk Road **LOGGED BY** W. Garza

SECTION (105 BR-1, 105FB-1 & 105FB-2_____ **LOCATION** Rockford Twp. - 13 NW, **SEC.** , **TWP.** 43N, **RNG.** 1E,
Latitude , **Longitude**

COUNTY Winnebago **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME-45 Automatic

STRUCT. NO. _____
Station 133+96

BORING NO. B-4
Station 133+67
Offset 44.5 ft Rt CL
Ground Surface Elev. 725.20 ft

Surface Water Elev. _____ ft
Stream Bed Elev. 722.70 ft

Groundwater Elev.:
First Encounter 693.2 ft ▼
Upon Completion Wash ft
After _____ **Hrs.** _____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Wash		6		
MEDIUM tan fine SAND *(continued)*	684.20	15		
	682.20			
VERY DENSE tan fine SAND with medium GRAVEL	-45	13		
		18		
	679.20	36		
	676.70			
VERY DENSE tan SAND & GRAVEL	-50	20		
		25		
	674.20	30		
End of Boring				
	-55			
	-60			

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, form 137 (Rev. 8-99)

KNIGHT
Engineers & Architects

	DESIGNED - GSG	REVISED
	CHECKED -	REVISED
SCALE - NONE	DRAWN - DC	REVISED
DATE - 12/20/2018	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NUMBER 101-2050
DRAWING NO. SA-06 OF 15 DRAWINGS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	95
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 8/21/06

ROUTE FAU 5128 **DESCRIPTION** P92-121-07 Box culvert on West Frontage, IL 251, .5m. N. of Blackhawk Road **LOGGED BY** W. Garza

SECTION (105 BR-1, 105FB-1 & 105FB-2_____) **LOCATION** Rockford Twp. - 13 NW, **SEC.** , **TWP.** 43N, **RNG.** 1E,
Latitude , **Longitude**

COUNTY Winnebago **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME-45 Automatic

STRUCT. NO. _____
Station 133+96

BORING NO. B-5
Station 133+64
Offset 35.0 ft Rt
Ground Surface Elev. 725.50 ft

Surface Water Elev. _____ ft
Stream Bed Elev. 722.50 ft

Groundwater Elev.:
First Encounter 695.5 ft ▼
Upon Completion Wash ft
After _____ **Hrs.** _____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
STIFF brown LOAM			1.2 P	14
	723.00			
VERY STIFF brown LOAM		6		
		8 8	2.9 S	15
	721.50			
	-5			
SOFT brown SANDY LOAM with SAND lens		3		
		1 1	0.3 B	22
	719.00			
STIFF tan SILTY CLAY with SAND lens		3		
		3 5	1.5 P	21
	716.50			
	-10			
STIFF tan SILTY CLAY		1		
		2 4	1.0 S	24
	714.00			
STIFF tan SILTY CLAY		2		
		2 4	1.0 B	24
	711.00			
	-15			
MEDIUM tan dry fine SAND		5		
		11 18		
	709.00			
DENSE tan dry fine SAND		10		
		15 32		
	706.00			
	-20			

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM tan SILT		8		
		9 12	0.5 S	20
	703.50			
MEDIUM tan fine SAND with medium GRAVEL		11		
		13 16		
	701.00			
	-25			
SOFT tan SILT		4		
		6 5	0.3 B	22
	698.50			
MEDIUM tan fine moist SAND		5		
		8 11		
	696.50			
	▼-30			
MEDIUM tan fine SAND		2		
		7 12		
	694.00			
	691.50			
	-35			
MEDIUM tan medium SAND with fine SAND lens		10		
	689.00	7 26		
	686.50			
	-40			

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, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 8/21/06

ROUTE FAU 5128 **DESCRIPTION** P92-121-07 Box culvert on West Frontage, IL 251, .5m. N. of Blackhawk Road **LOGGED BY** W. Garza

SECTION (105 BR-1, 105FB-1 & 105FB-2_____) **LOCATION** Rockford Twp. - 13 NW, **SEC.** , **TWP.** 43N, **RNG.** 1E,
Latitude , **Longitude**

COUNTY Winnebago **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** CME-45 Automatic

STRUCT. NO. _____
Station 133+96

BORING NO. B-5
Station 133+64
Offset 35.0 ft Rt
Ground Surface Elev. 725.50 ft

Surface Water Elev. _____ ft
Stream Bed Elev. 722.50 ft

Groundwater Elev.:
First Encounter 695.5 ft ▼
Upon Completion Wash ft
After _____ **Hrs.** _____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM tan fine SAND		9		
		10		
	684.00	13		
Wash	-45			
DENSE tan medium coarse SAND with GRAVEL		27		
		19 15		
	679.00			
	676.50			
	-50			
Wash		12		
DENSE tan fine SAND with GRAVEL		15 17		
	674.00			
	671.50			
	-55			
Wash		5		
MEDIUM tan fine SAND		11 17		
	669.00			
	666.50			
	-60			

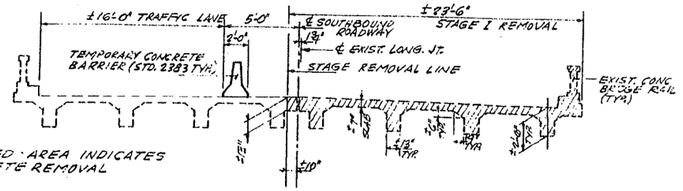
	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Wash		4		
MEDIUM light gray clean medium coarse SAND	664.00	8 17		
End of Boring				
	-65			
	-70			
	-75			
	-80			

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, form 137 (Rev. 8-99)

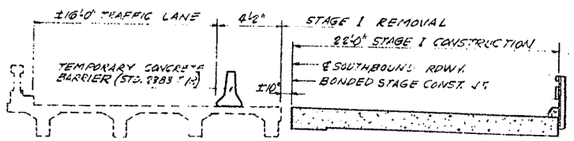
DESCRIPTION OF EXISTING BRIDG

S.N. 101-0009 THE EXISTING STRUCTURE WAS BUILT IN 1948 AS F.A. RT. 2, SECTION 105R-18. THE EXISTING SINGLE SPAN R.C. DECK GIRDER BRIDGE MEASURES 38'-0" BK TO BK. OF ABUTMENTS AND HAS A 45°-0" WATERTABLE. THE EXISTING R.C. DECK GIRDERS AND DECK SLAB AND ABUTMENT DIAPHRAGMS ARE TO BE REMOVED. ONE LANE TRAFFIC SHALL BE MAINTAINED AT ALL TIMES UTILIZING STAGE CONSTRUCTION.

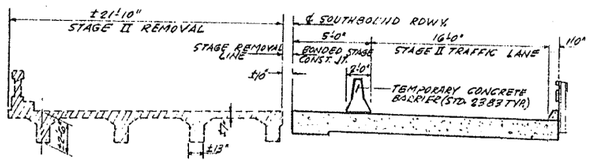


NOTE: HATCHED AREA INDICATES CONCRETE REMOVAL

STAGE I REMOVAL
(LOOKING SOUTH)

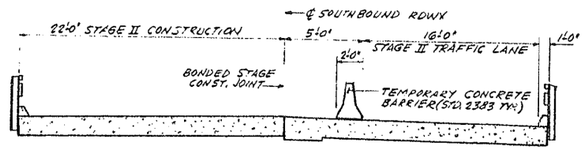


STAGE I CONSTRUCTION
(LOOKING SOUTH)



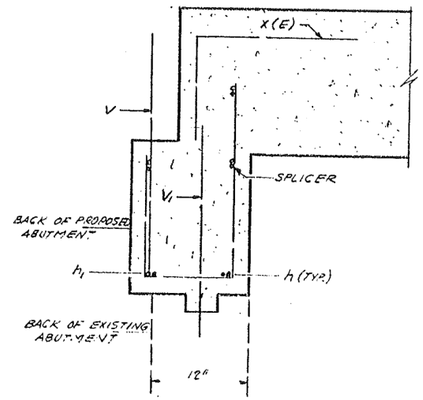
NOTE: REMOVAL OF EXISTING BRIDGE RAIL IS INCLUDED IN CONCRETE REMOVAL

STAGE II REMOVAL
(LOOKING SOUTH)



STAGE II CONSTRUCTION
(LOOKING SOUTH)

STAGE CONSTRUCTION DETAILS



SECTION B-B

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER.	SUB.	TOTAL
CLASS X CONCRETE (SPECIAL)	CU. YD.	83.6		83.6
REINFORCEMENT BARS	LBS.	11,070		11,070
REINF. BARS (EPOXY CTD.)	LBS.	3,140		3,140
PROTECTIVE COAT	SQ. YD.	158		158
NAME PLATES	EACH	1		1
STEEL RAILING, TYPE T-1	LIN. FT.	63		63
CONCRETE REMOVAL (SPECIAL)	CU. YD.	65.5		65.5
FLOOR DRAINS	EACH	2		2
EPOXY CRACK SEALING	LIN. FT.		40	40
REPAIR CONC. STRUCTURES	SQ. FT.		20	20
STRUCTURE EXCAVATION	CU. YD.		14	14

THE CONTRACTOR SHALL MAKE ALLOWANCE FOR THE DEFLECTION OF FORMS, SHRINKAGE AND SETTLEMENT OF FALSEWORK, IN ADDITION TO ALLOWANCE FOR DEAD LOAD DEFLECTION.

REVISIONS TO CONTRACT PLANS

CONTRACT PLANS SHEET NO.	DESCRIPTION OF REVISION	ALTERNATE PLANS SHEET NO.
1 OF 11	REVISE EXISTING STRUCTURE DESCRIPTION DELETE DESIGN STRESSES ** (WORKING STRESS) REVISE TOTAL BILL OF MATERIAL	SEE SHEET 1A
2 OF 11	DELETE ENTIRE SHEET	SEE SHEET 1A
4 OF 11	REVISE SECTION B-B REVISE NUMBER OF BAR SPLICERS REQD.	SEE SHEET 1A
5 OF 11	DELETE ENTIRE SHEET	SEE SHEET 2A
6 OF 11	DELETE ENTIRE SHEET	SEE SHEET 3A
7 OF 11	REVISE SECTION A-A REVISE SECTION B-B REVISE BILL OF MATERIAL	SEE SHEET 3A
9 OF 11	DISREGARD CONFIGURATION OF PROPOSED SUPERSTRUCTURE SHOWN ON SECTION C-C AND SECTION D-D	SEE CROSS SECTION SHEET 3A
10 & 11 OF 11	DELETE ENTIRE SHEETS	

DONALD E. HUFFMAN
81-2432
REGISTERED STRUCTURAL ENGINEER OF ILLINOIS
Donald E. Huffman
6/28/85

ALTERNATE PLANS

ILL. RT. 251 OVER
TRIBUTARY OF KISHWAUKEE RIVER
F.A.U. RT. 5129 SECTION 105R-18-M
WINNEBAGO COUNTY

CIVIL CONSTRUCTORS
FREEPORT, ILLINOIS

DESIGNED BY: D.E. HUFFMAN DATE: MAY 1985	WILLETT HOFMANN & ASSOCIATES, Inc. Consulting Engineers	REVISIONS BY DATE
DRAWN BY: D.E. HUFFMAN DATE: MAY 1985		D.E.H. 6/28/85
CHECKED BY: B. THOMPSON DATE: MAY 1985		
APPROVED BY: DATE:		

JOB/FILE NO. 85073

TAN-CITY BLUE

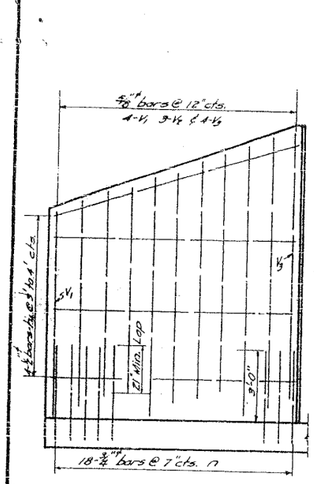
FOR INFORMATION ONLY

FIGURE 8
SHEET 27 OF 112

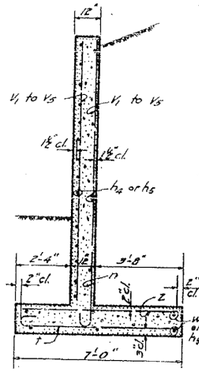
KNIGHT Engineers & Architects		DESIGNED - GSG	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN 101-0009 EXISTING PLANS STRUCTURE NUMBER 101-2050
		CHECKED -	REVISED		
	SCALE - NONE	DRAWN - DC	REVISED		DRAWING NO. SA-08 OF 15 DRAWINGS
	DATE - 12/20/2018	CHECKED -	REVISED		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	97
		CONTRACT NO. 64D70		
	ILLINOIS	FED. AID PROJECT		

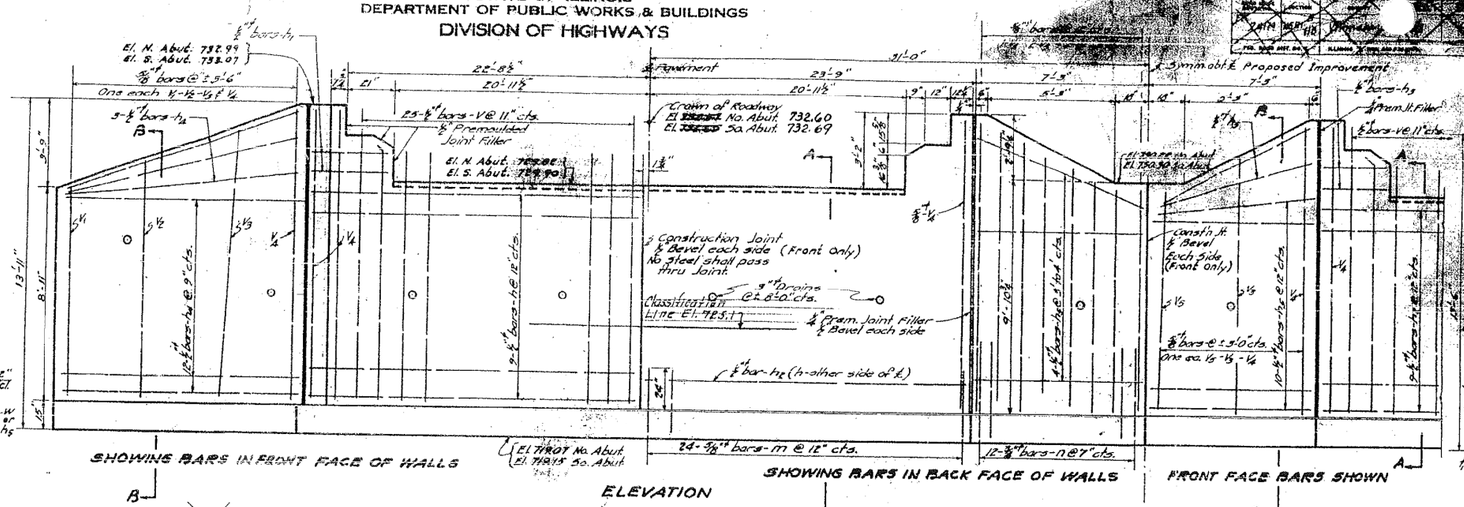
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS



WING ELEVATION
SHOWING BARS IN BACK FACE



SECTION B-B



SHOWING BARS IN FRONT FACE OF WALLS

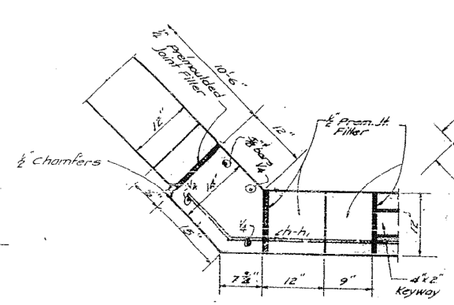
ELEVATION

SHOWING BARS IN BACK FACE OF WALLS

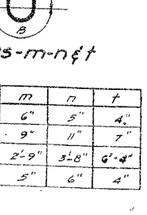
FRONT FACE BARS SHOWN

SECTION A-A

Note:-
Abutments on East Bridge to be built in line and conformity with existing abutments on West Bridge.

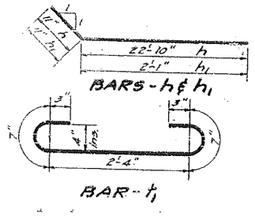


DETAIL AT CORNER OF WALLS



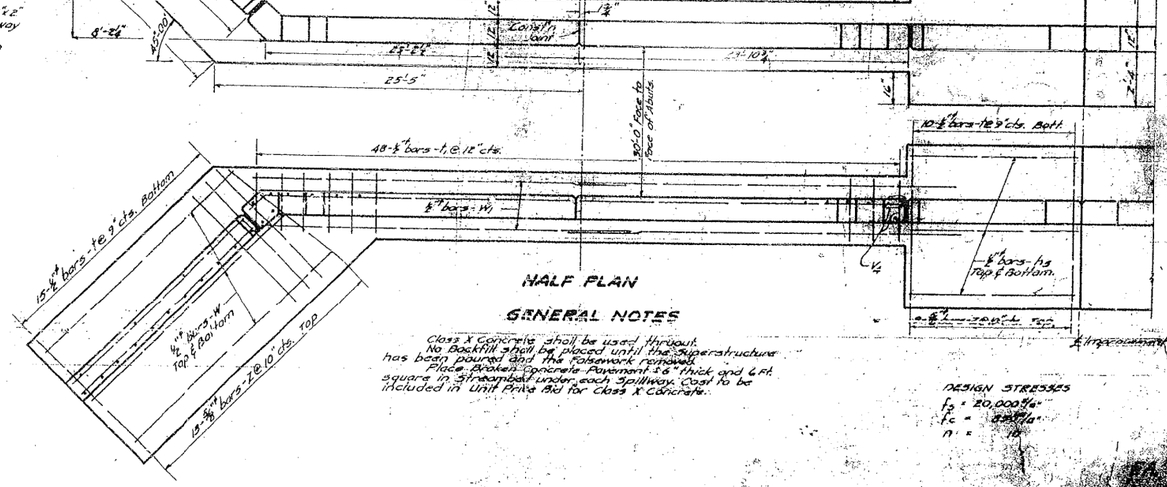
BARS-m-n&t

	m	n	t
A	6"	5"	4"
B	9"	11"	7"
C	2'-9"	3'-8"	6'-8"
D	5"	6"	4"



BARS-h & h1

BAR-h1



HALF PLAN

GENERAL NOTES

Class X Concrete shall be used throughout.
No Backfill shall be placed until the Superstructure has been poured and the Falsework removed.
Place Broken Concrete Pavement 6" thick and 6 Ft. square in Streambed under each Spillway. Cost to be included in Unit Price Bid for Class X Concrete.

DESIGN STRESSES
f_s = 20,000#/in²
f_c = 900#/in²
n = 10

BILL OF MATERIAL

SUBSTRUCTURE TWO SPANS

BAR	NO.	SIZE	
A	40	#9	
B			
C			
D			
E			
m	196	#8	1760
n	160	#6	520
t		#4	
t1	192	#9	4608
Z	88	#5	
W	24	#4	
W1	16	#3	
V	200	#4	
V1	20	#5	
V2	24	"	
V3	32	"	
V4	40	"	
V5	16	"	

Class X Concrete
Reinforcement Bars
Class A Epoxy for Structure
Class A Epoxy for Structure

STANDARD	COMPUTED	Harry P. Graham
	CHECKED	Joseph J. Ramey
	DRAWN	H.P.G. at Urbana
	CHECKED	J.J.R.
SPECIAL	ASSEMBLED	
	CHECKED	

EXAMINED 19
BRIDGE ENGINEER
PASSED
ENGINEER OF DESIGN
APPROVED
CHIEF ENGINEER & DIRECTOR

FOR INFORMATION ONLY

FIGURE 8
SHEET 28 OF 112

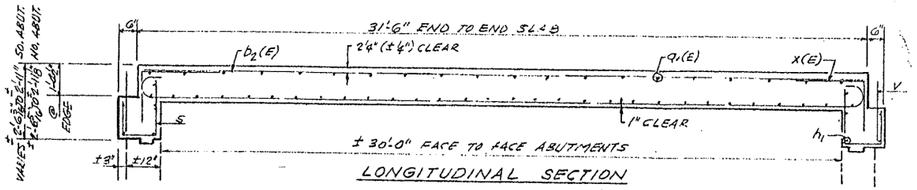
KNIGHT
Engineers & Architects

		DESIGNED -	REVISED
		CHECKED -	REVISED
SCALE - NONE		DRAWN -	REVISED
DATE - 12/20/2018		CHECKED -	REVISED

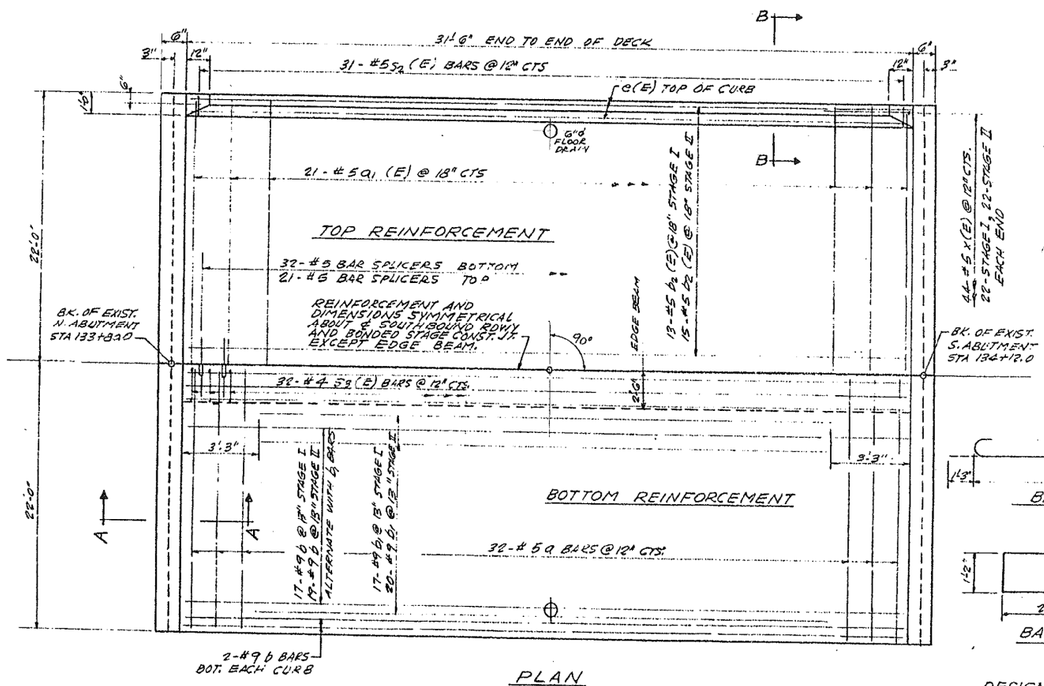
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 101-0009 EXISTING PLANS
STRUCTURE NUMBER 101-2050
DRAWING NO. SA-09 OF 15 DRAWINGS

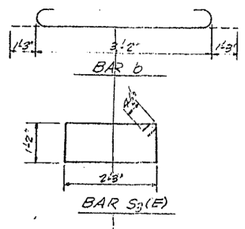
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	98
		CONTRACT NO. 64D70		
	ILLINOIS	FED. AID PROJECT		



LONGITUDINAL SECTION

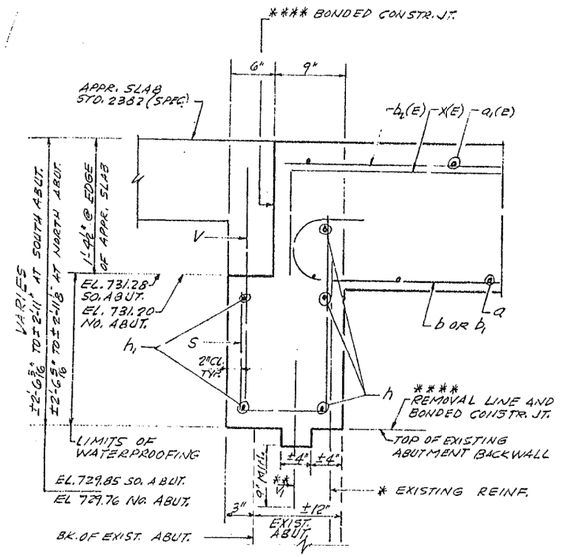


PLAN

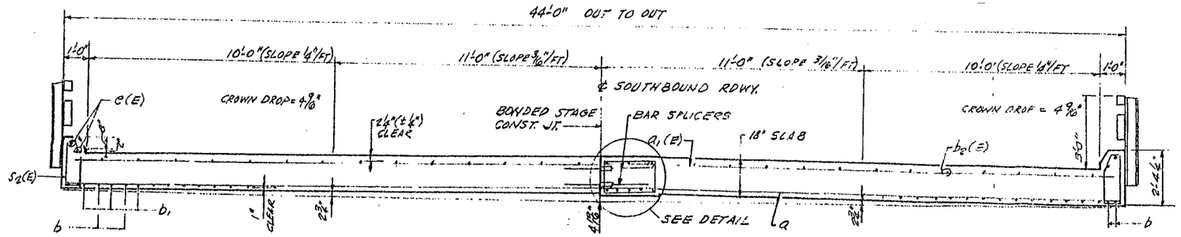


DESIGN STRESSES (LOAD FACTOR)

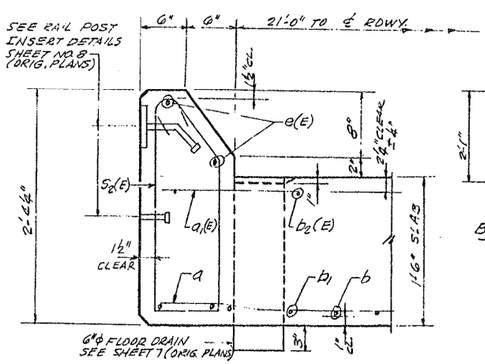
F'_c = 3,500 P.S.I.
F_y = 60,000 P.S.I. (REINF)



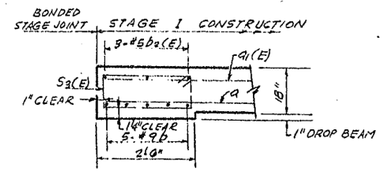
SECTION A-A



CROSS SECTION (LOOKING SOUTH)



SECTION B-B



EDGE BEAM DETAIL

* EXISTING REINFORCEMENT SHALL BE CLEANED AND INCORPORATED INTO NEW CONSTRUCTION.

** DRILL 1"ø HOLES. EPOXY GROUT V_1 BARS. SEE SPECIAL PROVISIONS. FOR LOCATION AND QUANTITY OF V_1 BARS, SEE SHEET NO. 9. (ORIGINAL PLANS)

**** BONDED CONSTRUCTION JOINT IN ACCORDANCE WITH ARTICLE 504.13 (a)(2) OF THE STD. SPECS.

FOR LOCATION OF BARS h, h_1, AND S BARS, SEE SHEET NO. 9, (ORIGINAL PLANS)

DIAPHRAGMS SHALL BE POURED MONOLITHICALLY WITH THE CONCRETE SLAB.

SUPERSTRUCTURE
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a	64	#5	21'-9"	
a_1(E)	42	#5	21'-9"	
b	45	#9	33'-9"	
b_1	37	#9	25'-0"	
b_2(E)	31	#5	31'-2"	
x(E)	88	#5	5'-9"	
S	84	#5	4'-3"	
S_2(E)	62	#5	6'-0"	
S_3(E)	32	#4	7'-7"	
V	84	#5	2'-3"	
h	12	#5	20'-6"	
h_1	8	#5	21'-9"	
e(E)	4	#6	17'-0"	
REINFORCEMENT BARS			LBS.	10,750
REINFORCEMENT BARS (EPOXY COATED)			LBS.	3040
CLASS X CONCRETE (SPECIAL)			CU. YD.	82.2
CONCRETE REMOVAL (SPECIAL)			CU. YD.	46.2

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

4 - e(E) ARE BILLED ON SHEET 8 (ORIG PLANS)

SEE SHEET 2 (ORIG. PLANS) FOR CONCRETE REMOVAL DETAILS.

BAR V_1 IS BILLED ON SHEET 9 (ORIG. PLANS)

ALTERNATE PLANS
F.A.U. RT. 5128 SECTION 105R-18-M
WINNEBAGO COUNTY
CIVIL CONSTRUCTORS - FREEPORT

SLAB DETAILS, SECTIONS, SUPER. BILL OF MATL.

DESIGNED BY: D. E. HUFFMAN DATE: MAY 1985
DRAWN BY: D.E. HUFFMAN DATE: MAY 1985
CHECKED BY: B. THOMASON DATE: MAY 1985
APPROVED BY: DATE:

WILLETT HOFMANN & ASSOCIATES, Inc. Consulting Engineers

REVISIONS	
BY	DATE
D.E.H.	6/28/85

FIGURE 8
SHEET 29 OF 112

FOR INFORMATION ONLY

Attachment I.

KNIGHT Engineers & Architects

	DESIGNED -	REVISED	
	CHECKED -	REVISED	
SCALE - NONE	DRAWN -	REVISED	
DATE - 12/20/2018	CHECKED -	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 101-0009 EXISTING PLANS
STRUCTURE NUMBER 101-2050
DRAWING NO. SA-10 OF 15 DRAWINGS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	99
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			

FACE OF EAST & WEST CURBS

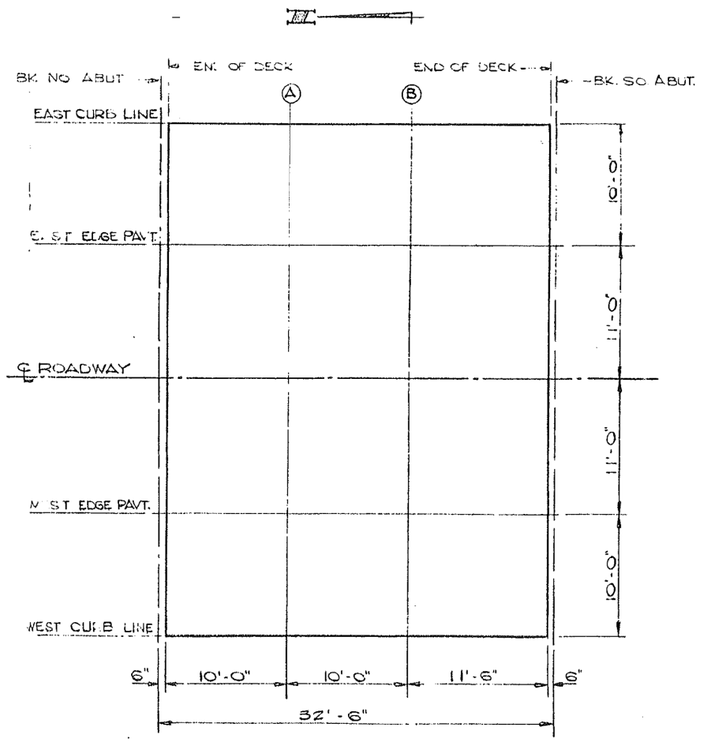
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVS. ADJUSTED FOR DEAD LOAD DEFLECTIONS
BACK NORTH ABUTMENT	133+79.75	21.000'	732.305	732.305
NORTH END OF DECK	133+80.25	21.000'	732.306	732.306
A	133+90.25	21.000'	732.332	732.359
B	134+00.25	21.000'	732.358	732.387
SOUTH END OF DECK	134+11.75	21.000'	732.390	732.390
BACK SOUTH ABUTMENT	134+12.25	21.000'	732.391	732.391

EAST AND WEST EDGE OF PAVEMENT

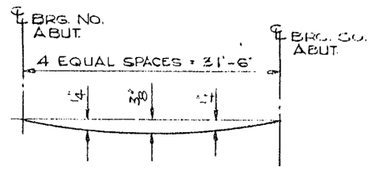
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVS. ADJUSTED FOR DEAD LOAD DEFLECTIONS
BACK NORTH ABUTMENT	133+79.75	11.000'	732.513	732.513
NORTH END OF DECK	133+80.25	11.000'	732.514	732.514
A	133+90.25	11.000'	732.540	732.567
B	134+00.25	11.000'	732.566	732.595
SOUTH END OF DECK	134+11.75	11.000'	732.598	732.598
BACK SOUTH ABUTMENT	134+12.25	11.000'	732.599	732.599

℄ SOUTHBOUND ROADWAY AND BONDED CONSTRUCTION JOINT

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVS. ADJUSTED FOR DEAD LOAD DEFLECTIONS
BACK NORTH ABUTMENT	133+79.75	0.000'	732.685	732.685
NORTH END OF DECK	133+80.25	0.000'	732.686	732.686
A	133+90.25	0.000'	733.712	732.739
B	134+00.25	0.000'	733.738	732.767
SOUTH END OF DECK	134+11.75	0.000'	732.770	732.770
BACK SOUTH ABUTMENT	134+12.25	0.000'	732.771	732.771



PLAN



DEAD LOAD DEFLECTION DIAGRAM
(INCLUDES WEIGHT OF CONCRETE ONLY)

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.

ALTERNATE PLANS
F.A.U. RT. 5128 SECTION 105R-18-M
WINNEBAGO COUNTY
CIVIL CONSTRUCTORS - FREEPORT

TOP OF DECK ELEVATIONS

DESIGNED BY: D.E. HUFFMAN
DATE: MAY 1985
DRAWN BY: R. RHOADS
DATE: MAY 1985
CHECKED BY: R. THOMPSON
DATE: MAY 1985
APPROVED BY:
DATE:

WILLETT HOFMANN & ASSOCIATES, Inc.
Consulting Engineers

REVISIONS	
BY	DATE
D.E.H.	6/28/85

FOR INFORMATION ONLY

JOB/FILE NO. 85073

FIGURE 8
SHEET 30 OF 112

KNIGHT Engineers & Architects		DESIGNED -	REVISED
		CHECKED -	REVISED
	SCALE - NONE	DRAWN -	REVISED
	DATE - 12/20/2018	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

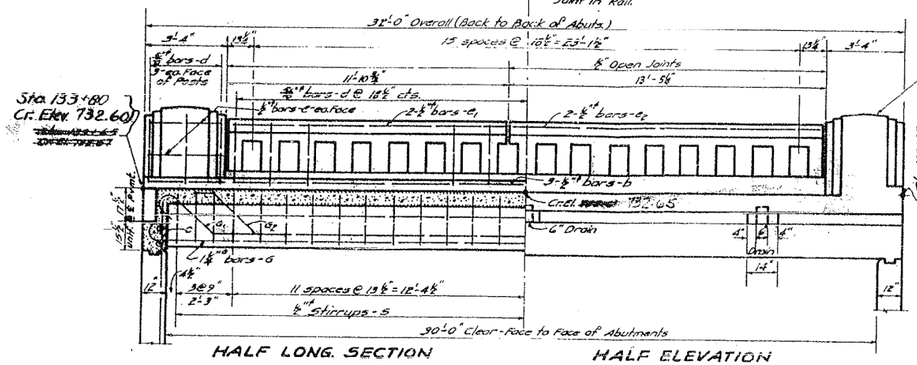
SN 101-0009 EXISTING PLANS
STRUCTURE NUMBER 101-2050
DRAWING NO. SA-11 OF 15 DRAWINGS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	100
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			

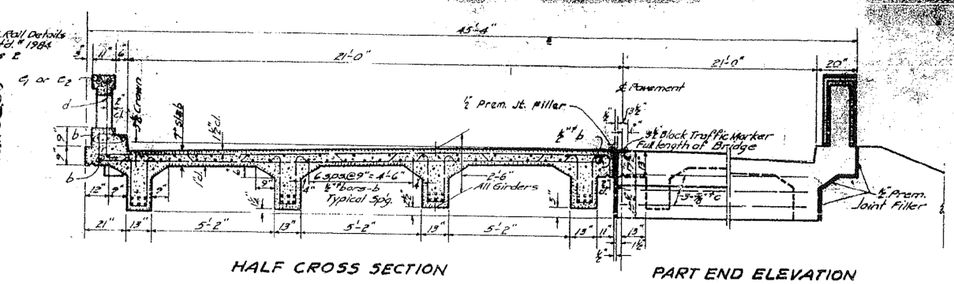
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

B.M. Top of Right of Way Marker - 68' Lt. Sta 135 El. 734.56

Existing Bridge over Creek to be removed

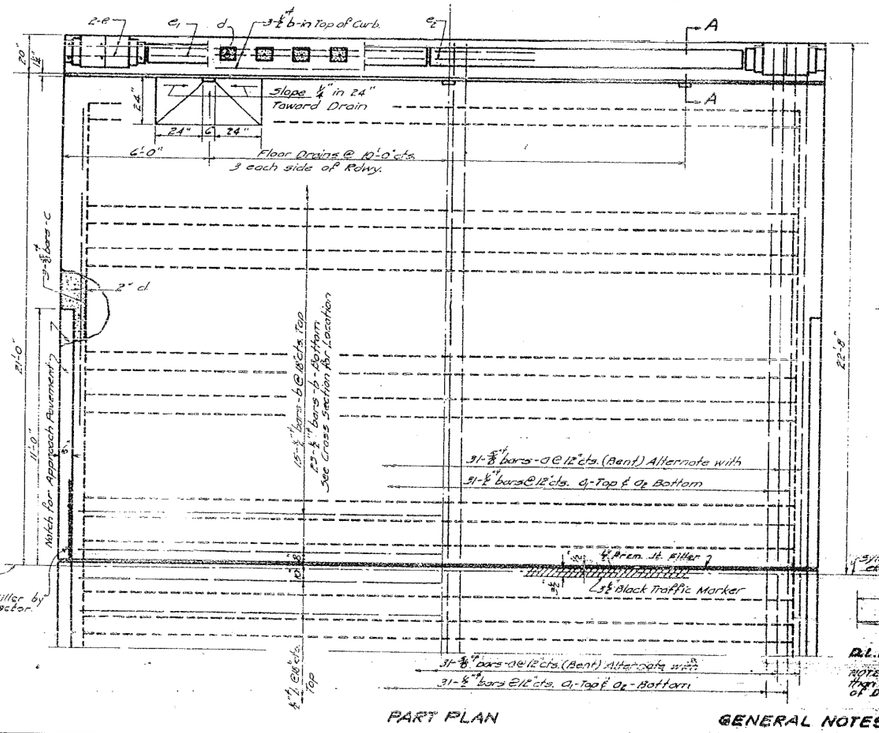


HALF LONG. SECTION HALF ELEVATION

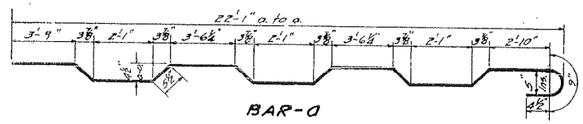


HALF CROSS SECTION

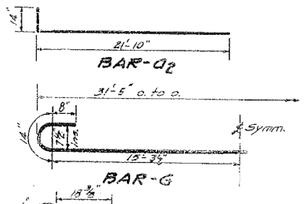
PART END ELEVATION



PART PLAN

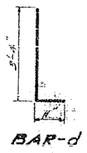


BAR-a

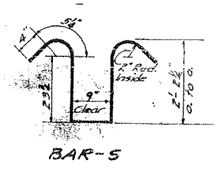


BAR-a_2

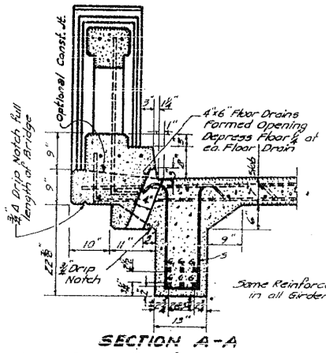
BAR-G



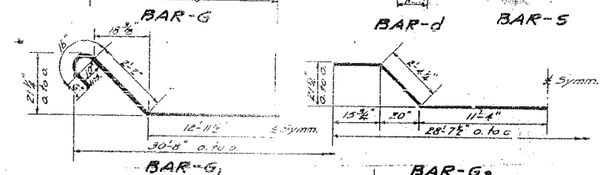
BAR-d



BAR-S

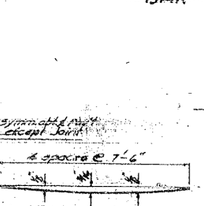


SECTION A-A



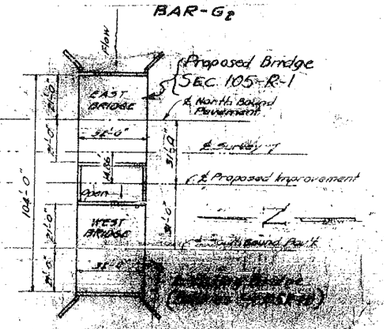
BAR-G_1

BAR-G_2



D.L. DEFLECTION DIAGRAM

NOTE: Centerline Floor higher than Elevations shown by the amount of Dead Load Deflection



LOCATION SKETCH

BILL OF MATERIAL
SUPERSTRUCTURE - TWO BRIDGES - (Revised)

SEC. 105-R1
Use one-half of Quantities

BAR	NO.	SIZE	LENGTH	SHAPE
a	124	#5	23'-9"	
a_1	124	#4	22'-0"	
a_2	124	#4	23'-0"	
b	184	#4	30'-6"	
c	24	#5	20'-9"	
d	116	#5	4'-5"	
e	32	#4	9'-0"	
e_1	8	#4	11'-6"	
e_2	8	#4	13'-0"	
G	43	#11	34'-3"	
G_1	32	#11	34'-6"	
G_2	16	#11	30'-0"	
S	464	#4	6'-7"	
Monolithic Concrete				
Class X Concrete				
Reinforcement Bars				

SUPERSTRUCTURE STRESSES
f_c = 1350 lbs/sq in
f_s = 18,000 lbs/sq in
n = 10

STANDARD	COMPUTED	Henry P. Graham
	CHECKED	Joseph J. Ramsey
	DRAWN	H.P.G. A.V.
	CHECKED	J.J.R.
SPECIAL	ASSEMBLED	
	CHECKED	

EXAMINED 19--

PASSED

APPROVED

BRIDGES ENGINEER
ENGINEER OF DESIGN
DIVISION OF HIGHWAYS
CHIEF HIGHWAY ENGINEER

GENERAL NOTES

Class X Concrete shall be used, throughout except in Handrail Rail Posts.
The Concrete Floor Slab shall be finished in accordance with Art. 613(e) of the Standard Specifications.
The Concrete Girders and Floor Slab on one side of the Centerline Joint shall be poured complete in one continuous operation.
The Falsework on one side of Centerline Joint shall not be removed until after Girders and Floor are poured on other side of Joint.
The Handrail shall not be poured until after the Falsework has been removed.
Handrail Concrete shall be used in Handrail and Posts.

F.A. ROUTE 2

FOR INFORMATION ONLY

FIGURE 8
SHEET 58 OF 112

KNIGHT
Engineers & Architects

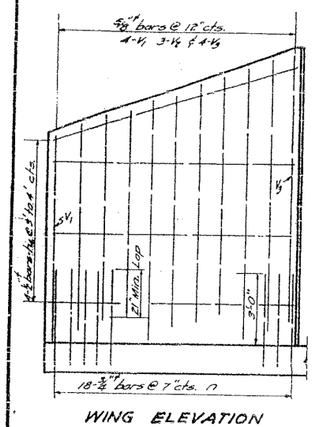
	DESIGNED - GSG	REVISED
	CHECKED -	REVISED
SCALE - NONE	DRAWN - DC	REVISED
DATE - 12/20/2018	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

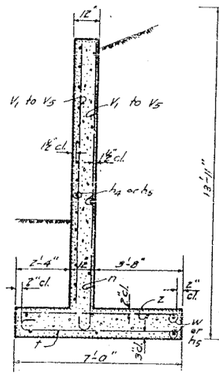
SN 101-0010 EXISTING PLANS
STRUCTURE NUMBER 101-2050
DRAWING NO. SA-12 OF 15 DRAWINGS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	101
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			

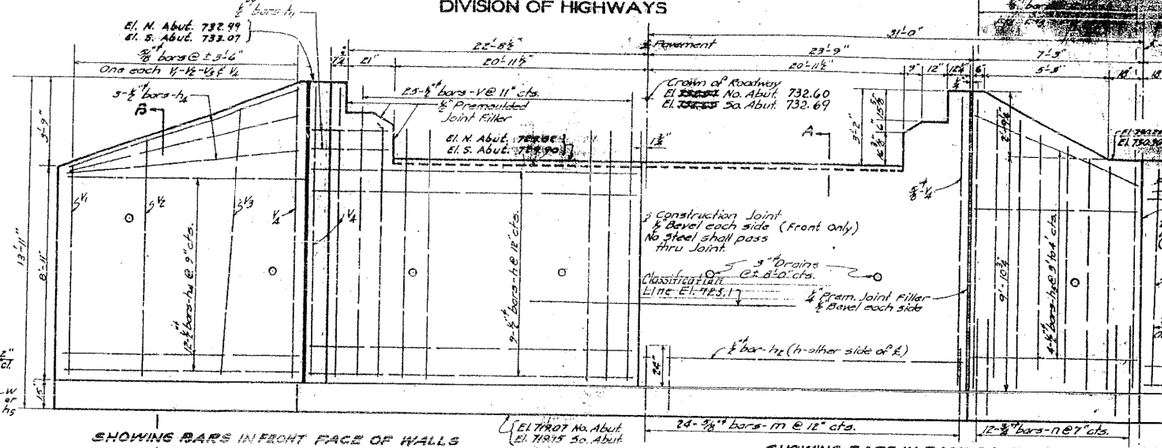
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS



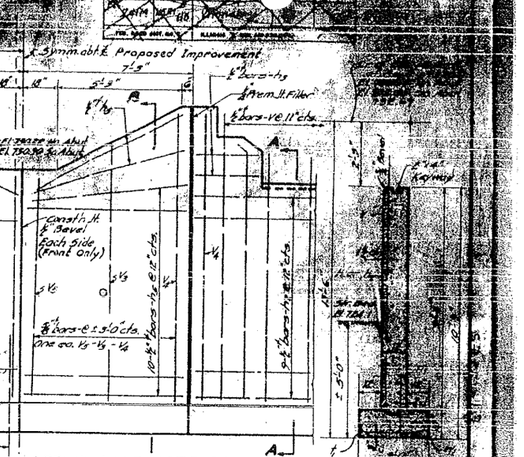
WING ELEVATION
SHOWING BARS IN BACK FACE



SECTION B-B



SHOWING BARS IN FRONT FACE OF WALLS
ELEVATION
SHOWING BARS IN BACK FACE OF WALLS

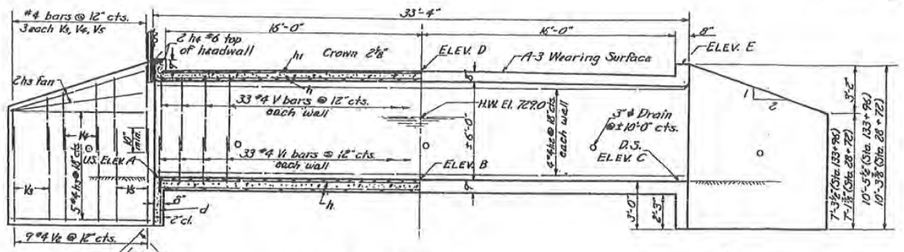

Prem. Jt. Filler
V2 bars-V@ 11" cts.
Const'n Jt. & Bevel Each Side (Front only)
V2 bars-h@ 12" cts.
V2 bars-h@ 12" cts.
V2 bars-h@ 12" cts.

BM Top SE Wingwall of West Bridge (S. Bo- ane)
Sta. 133+96 Elev. 733.03

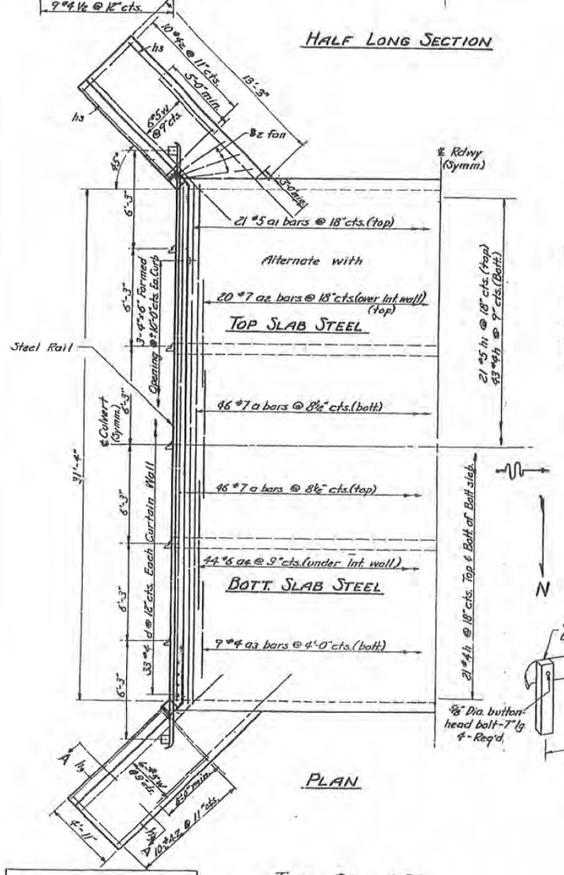
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

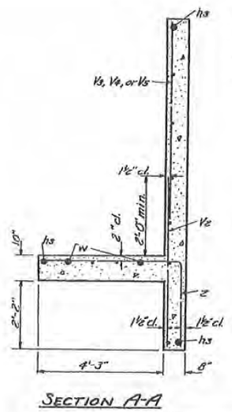
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 70	105RI-1	Winnebago	23	10
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. / / SHEETS



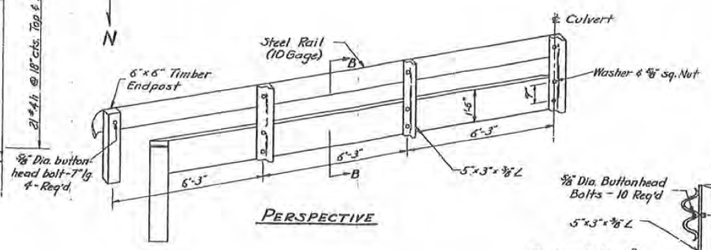
HALF LONG SECTION





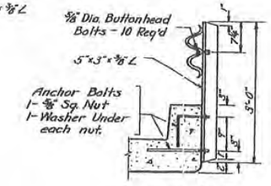
SECTION A-A

STATION	ELEV. A	ELEV. B	ELEV. C	ELEV. D	ELEV E
133+96	725.15	725.10	725.05	731.95	732.52
28+72	724.05	724.00	723.95	730.70	731.27

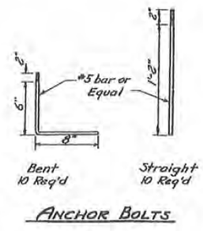


PERSPECTIVE

Design Stresses
f_s = 20000 #/"
f_a = 1400 #/" (Barrel)
f_a = 1000 #/" (Wall & Wings)
n = 10
Loading H15-S12-44



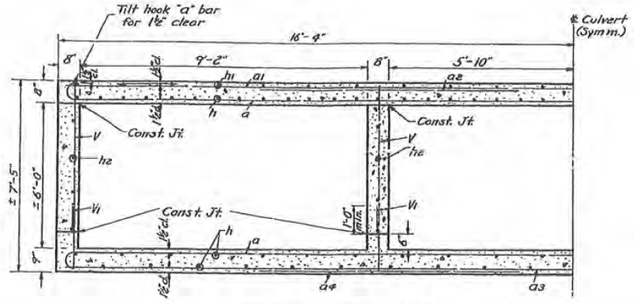
SECTION B-B



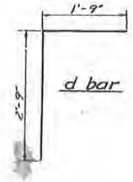
ANCHOR BOLTS

GENERAL NOTES

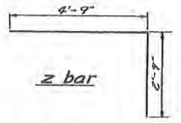
Class X Concrete shall be used throughout.
Exposed edges shall be beveled ¾" except as shown.
All bars shall be lapped 70 diam. unless otherwise shown.
The following surfaces of the culvert shall be waterproofed; back of wingwalls from lower slab to 12" below top, outside of exterior walls above lower const. joint and top of culvert.



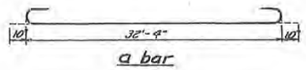
SECTION THRU BARREL



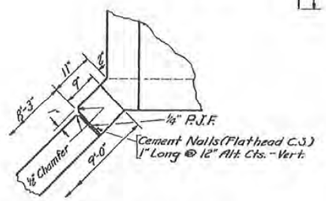
d bar



z bar



a bar



DETAIL @ CORNER

BILL OF MATERIAL - EACH CULVERT

BAR	No.	SIZE	LENGTH	BAR	No.	SIZE	LENGTH
a	92	#7	34'-0"	h	85	#4	32'-9"
a1	21	#5	32'-4"	h1	21	#5	32'-9"
a2	40	#7	9'-9"	he	16	#4	32'-9"
a3	9	#4	32'-4"	hs	36	#4	6'-0"
a4	88	#6	9'-9"	h4	4	#6	32'-3"
V	132	#4	6'-0"	w	24	#5	13'-0"
V1	132	#4	2'-0"				
Vz	36	#4	4'-9"	z	52	#4	7'-6"
V3	12	#4	4'-0"				
V4	12	#4	5'-0"				
V5	12	#4	6'-0"				
d	66	#4	4'-6"				

Class "X" Concrete	Cu. Yd.	95.4
Reinforcement Bars	Lbs.	4420
Metal Plate Bridge Rail	Lin. ft.	75

DESIGNED	M Tamashiro
CHECKED	T. Tanaka
DRAWN	M.S.T. F. Tiley
CHECKED	

JUNE 20 1957

EXAMINED — ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED — ENGINEER OF DESIGN
APPROVED — CHIEF HIGHWAY ENGINEER

PROJECT F-142 (30)
CULVERT ON FRONTAGE ROADS
S.B.I. RT. 70 - SEC 105 RI-I
WINNEBAGO COUNTY
STA. (133+96E & 28+72W)

FOR INFORMATION ONLY

FIGURE 8
SHEET 86 OF 112

KNIGHT
Engineers & Architects

	DESIGNED - GSG	REVISED
	CHECKED -	REVISED
SCALE - NONE	DRAWN - DC	REVISED
DATE - 12/20/2018	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 101-2001 EXISTING PLANS
STRUCTURE NUMBER 101-2050
DRAWING NO. SA-14 OF 15 DRAWINGS

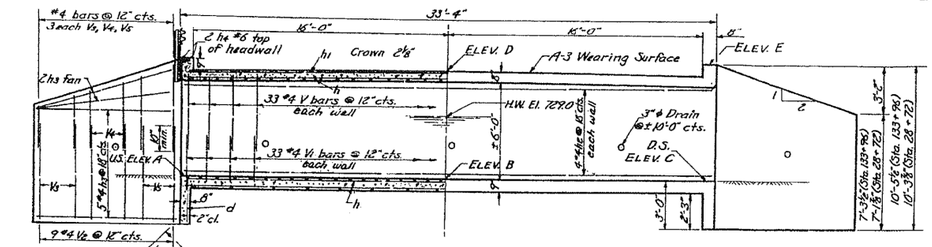
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	103
		CONTRACT NO. 64D70		
	ILLINOIS	FED. AID PROJECT		

BM Top SE Wingwall of West Bridge (S. Bou. ane)
Sta. 133+96 Elev. 793.03

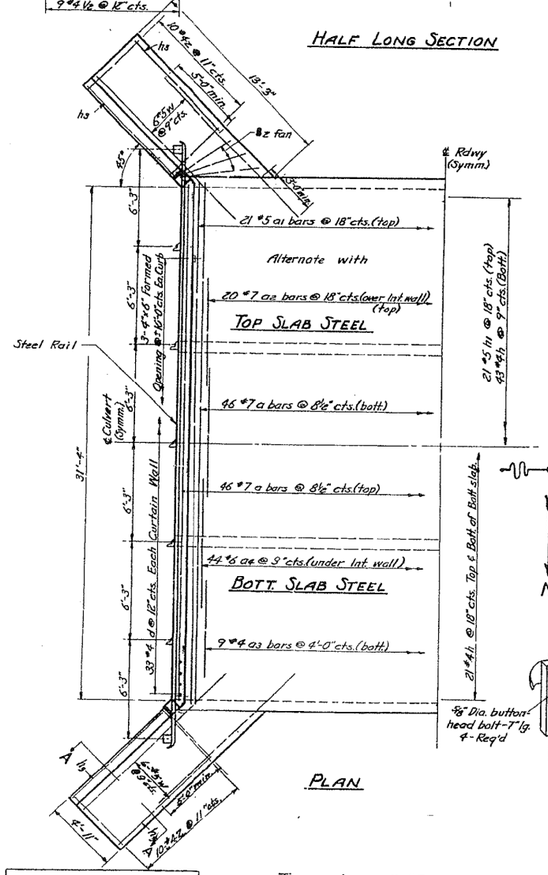
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

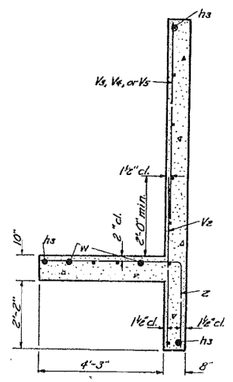
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 70 F.A.	105RI-1	Winnebago	23	10
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SHEET NO. 1 / SHEETS



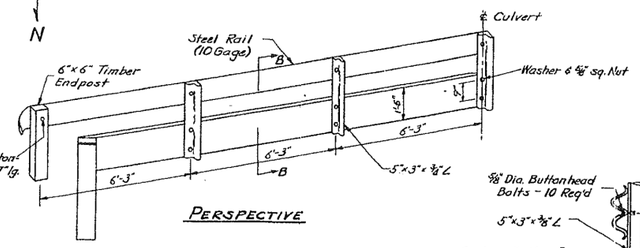
HALF LONG SECTION





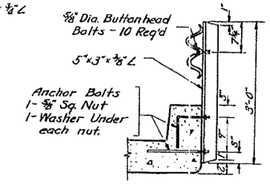
SECTION A-A

STATION	ELEV. A	ELEV. B	ELEV. C	ELEV. D	ELEV. E
133+96	725.15	725.10	725.05	731.95	732.52
28+72	724.05	724.00	723.95	730.70	731.27



PERSPECTIVE

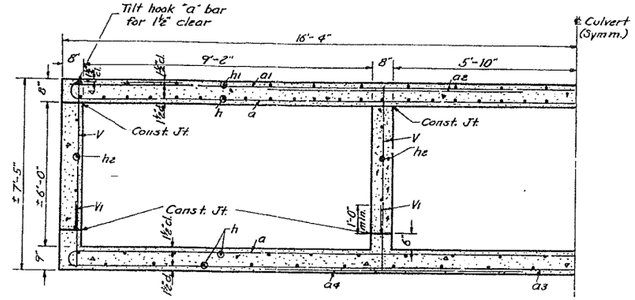
Design Stresses
f_s = 20,000 #/□"
f_c = 1,400 #/□" (Barrel)
f_c = 1,000 #/□" (Walls & Wings)
n = 10
Loading H15-S12-44



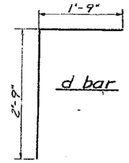
SECTION B-B

GENERAL NOTES

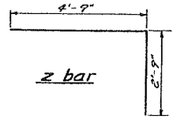
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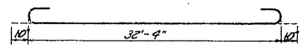
SECTION THRU BARREL



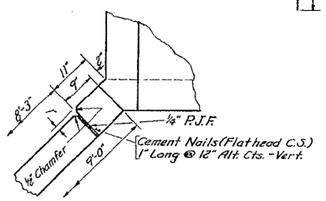
d bar



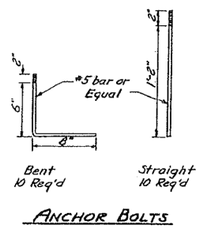
z bar



a bar



DETAIL @ CORNER



ANCHOR BOLTS

BILL OF MATERIAL - EACH CULVERT

BAR	No.	SIZE	LENGTH	BAR	No.	SIZE	LENGTH
a	92	#7	34'-0"	h	85	#4	32'-9"
a1	21	#5	32'-4"	h1	21	#5	32'-9"
a2	40	#7	9'-9"	h2	16	#4	32'-9"
a3	9	#4	32'-4"	h3	36	#4	8'-0"
a4	88	#6	9'-9"	h4	4	#6	32'-3"
V	132	#4	6'-0"	w	24	#5	13'-0"
V1	132	#4	2'-0"				
V2	38	#4	4'-9"	z	58	#4	7'-6"
V3	12	#4	4'-0"				
V4	12	#4	5'-0"				
V5	12	#4	6'-0"				
d	66	#4	4'-6"				

Class 'X' Concrete	Cu. Yd.	95.4
Reinforcement Bars	Lbs.	14420
Metal Plate Bridge Rail	Lin. ft.	75

PROJECT F-142 (30)
CULVERT ON FRONTAGE ROADS
S.B.I. Rt. 70 - SEC 105 RI-I
WINNEBAGO COUNTY
STA. (133+96E & 28+72W)

DESIGNED	M Tamashiro
CHECKED	T. Tanaka
DRAWN	MST. F. Tiley
CHECKED	

JUNE 20 19 57

EXAMINED — DIVISION OF BRIDGE AND TRAFFIC STRUCTURES
PASSED — ENGINEER OF DESIGN
APPROVED — CHIEF HIGHWAY ENGINEER

FOR INFORMATION ONLY

FIGURE 8
SHEET 112 OF 112

KNIGHT Engineers & Architects			
	DESIGNED - GSG	REVISED	
	CHECKED -	REVISED	
SCALE - NONE	DRAWN - DC	REVISED	
DATE - 12/20/2018	CHECKED -	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 101-2002 EXISTING PLANS
STRUCTURE NUMBER 101-2050
DRAWING NO. SA-15 OF 15 DRAWINGS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	104
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			

PLAN | SURVEYED | PLOTTED | PROJECT CHECKED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE

CATCH BASIN OR INLETS TO BE ADJUSTED OR RECONSTRUCTED
(DETAILS FOR CURB & GUTTER REPLACEMENT)

CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, STANDARD 606001 AND THIS DRAWING.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. A HOLE 1-1/2 IN DIAMETER AND 9 DEEP SHALL BE DRILLED IN THE EXISTING CONCRETE CURB AS SHOWN. A 1-1/4 X 18 SMOOTH DOWEL BAR SHALL BE GROUTED IN THE HOLE LONGITUDINALLY.

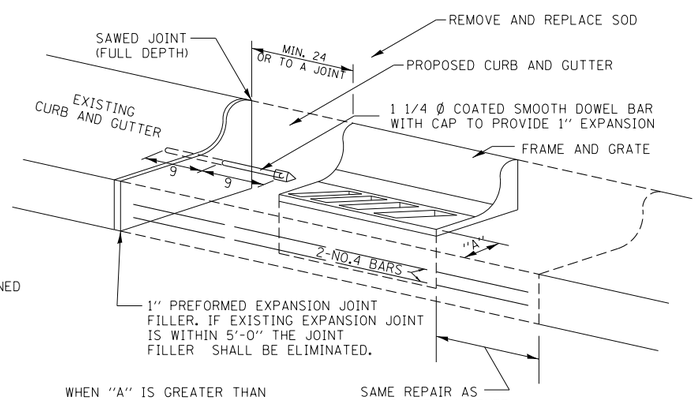
JOINTS OF A TYPE SIMILAR TO THAT IN THE UNDERLYING PAVEMENT (EXPANSION OR CONTRACTION) SHALL BE INSTALLED IN THE CONCRETE CURB IN ALIGNMENT WITH THE JOINTS IN THE PAVEMENT.

THE PROPOSED CONFIGURATION OF THE CURB AND GUTTER SHALL MATCH THAT REMOVED.

THE LOCATION OF THE DOWEL BAR SHALL BE DETERMINED BY THE ENGINEER.

ALL EXISTING TIE BARS IN EDGE OF PAVEMENT SLAB THRU REPLACEMENT AREA SHALL BE CUT OFF.

THE WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS AND INCLUDES THE REMOVAL AND REPLACEMENT OF SOD, CONCRETE PAVEMENT AND/OR CURB AND GUTTER ADJACENT TO CATCH BASINS OR INLETS TO BE ADJUSTED OR RECONSTRUCTED AND SHALL BE INCLUDED IN THE PAY ITEM OF CATCH BASINS OR INLETS TO BE ADJUSTED OR RECONSTRUCTED AS SPECIFIED.



WHEN "A" IS GREATER THAN 2 , 2-NO. 4 BARS SHALL BE PLACED AS SHOWN.

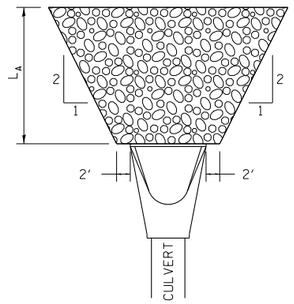
SAME REPAIR AS INDICATED ON OTHER SIDE OF FRAME AND GRATE.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 9-30-11

CATCH BASIN OR INLETS TO BE ADJUSTED OR RECONSTRUCTED 17.4

RIPRAP AT END SECTIONS

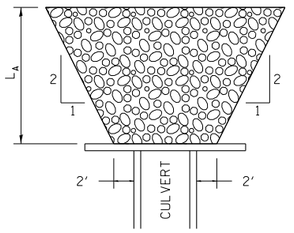


FLARED END SECTION

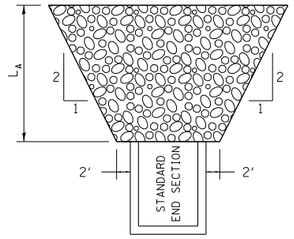
L_A = APRON LENGTH (ft)

IF THE CULVERT OUTLETS INTO A DEFINED CHANNEL, RIPRAP BANK TO BANK FOR LENGTH (L_A).

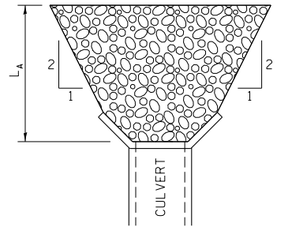
STANDARD END SECTION:
542001 (PIPE), 542011 (ELLIPTICAL)
DISTRICT STANDARD 10.1 (BOX).



CULVERT WITH HEADWALL



STANDARD END SECTION



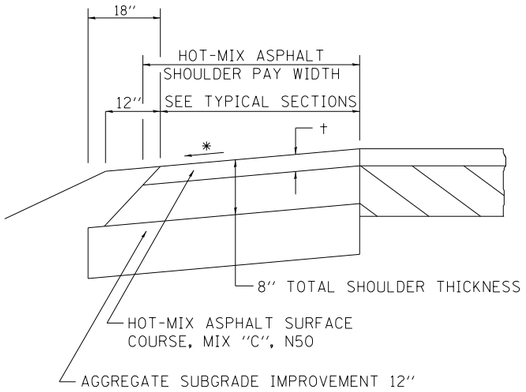
CULVERT WITH WING WALLS

REVISED - 7-13-16
REVISED - 11-12-14
REVISED - 2-10-14

RIPRAP AT END SECTIONS 19.4

PROFILE | SURVEYED | PLOTTED | PROJECT CHECKED | R.M. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO. | BY | DATE

HOT-MIX ASPHALT SHOULDER



† = SEE TYPICAL SECTIONS FOR THICKNESS

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.

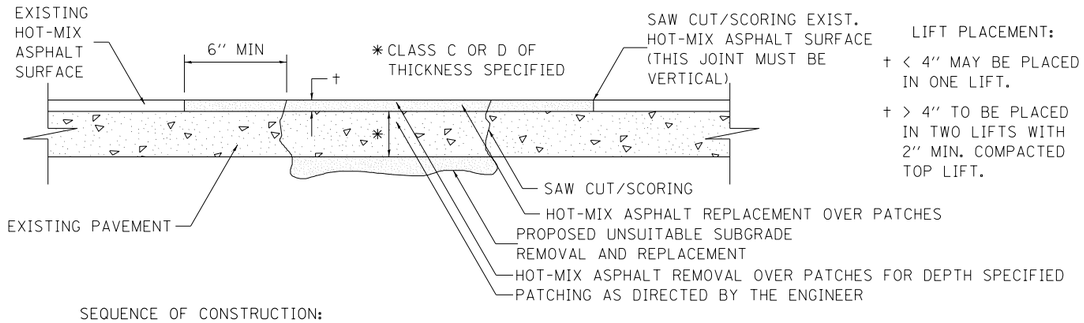
REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

* 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

PAVEMENT PATCHING FOR HOT-MIX ASPHALT SURFACED PAVEMENT



LIFT PLACEMENT:

† < 4" MAY BE PLACED IN ONE LIFT.

† > 4" TO BE PLACED IN TWO LIFTS WITH 2" MIN. COMPACTED TOP LIFT.

SEQUENCE OF CONSTRUCTION:

1. REMOVE THE EXISTING HOT-MIX ASPHALT SURFACE.
2. RESIDENT ENGINEER WILL DETERMINE IF LOCATION IS TO BE PATCHED OR TO ONLY REPLACE HOT-MIX ASPHALT SURFACE.
3. REMOVE AND REPLACE FULL DEPTH PATCHES AT LOCATIONS DIRECTED BY THE ENGINEER.
4. REPLACE HOT-MIX ASPHALT SURFACE OVER FULL DEPTH PATCHES AND AT LOCATIONS OF HOT-MIX ASPHALT SURFACE REMOVAL.

GENERAL NOTES:

1. FOR BASIS OF PAYMENT: SEE THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-03-11

PAVEMENT PATCHING FOR HOT-MIX ASPHALT SURFACED PAVEMENT 32.4

FILE NAME = D264070-sht-Detail-001.dgn

KNIGHT
Engineers & Architects

	DESIGNED - DJC	REVISED -
	DRAWN - DJC	REVISED -
	CHECKED - DMS	REVISED -
	DATE - 12/14/2018	REVISED -

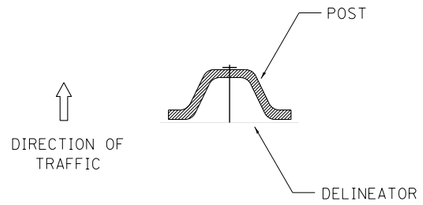
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS STA. TO STA.

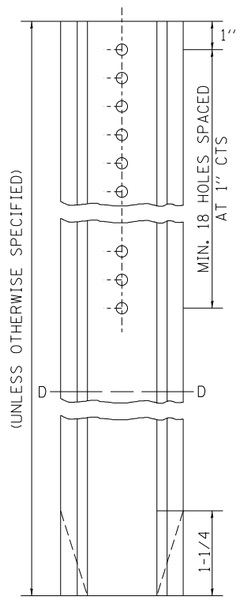
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	105
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DELINEATOR AND POST ORIENTATION





SECTION D-D



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 ATTACHECD AS SHOWN ABOVE.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-03-11

DELINEATOR AND POST ORIENTATION 37.4

TYPICAL MEDIAN CROSSOVER CLOSURE
(WITH EMERGENCY OPENING)

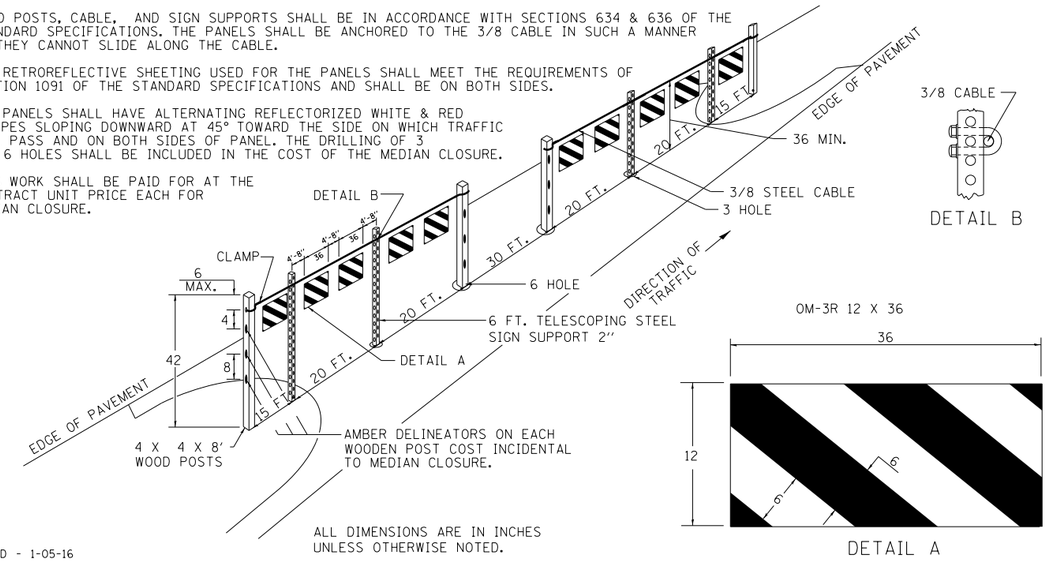
GENERAL NOTES

WOOD POSTS, CABLE, AND SIGN SUPPORTS SHALL BE IN ACCORDANCE WITH SECTIONS 634 & 636 OF THE STANDARD SPECIFICATIONS. THE PANELS SHALL BE ANCHORED TO THE 3/8 CABLE IN SUCH A MANNER SO THEY CANNOT SLIDE ALONG THE CABLE.

THE RETROREFLECTIVE SHEETING USED FOR THE PANELS SHALL MEET THE REQUIREMENTS OF SECTION 1091 OF THE STANDARD SPECIFICATIONS AND SHALL BE ON BOTH SIDES.

ALL PANELS SHALL HAVE ALTERNATING REFLECTORIZED WHITE & RED STRIPES SLOPING DOWNWARD AT 45° TOWARD THE SIDE ON WHICH TRAFFIC WILL PASS AND ON BOTH SIDES OF PANEL. THE DRILLING OF 3 AND 6 HOLES SHALL BE INCLUDED IN THE COST OF THE MEDIAN CLOSURE.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR MEDIAN CLOSURE.

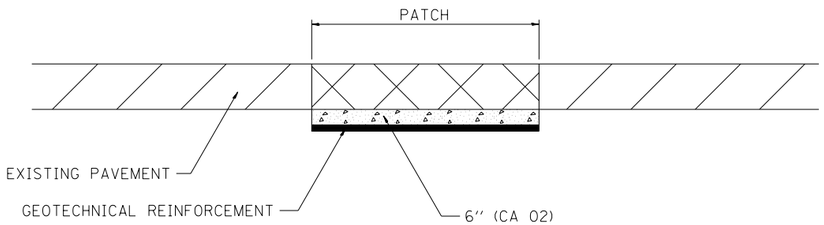


ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 1-05-16
REVISED - 1-17-12

TYPICAL MEDIAN CROSSOVER CLOSURE (WITH EMERGENCY OPENING) 87.4

SUBGRADE REPLACEMENT



NOTES:

THE CA 02 SHALL BE COMPACTED IN A MANNER APPROVED BY THE ENGINEER. IF THE MOISTURE CONTENT OF THE MATERIAL IS SUCH THAT COMPACTION SATISFACTORY TO THE ENGINEER CANNOT BE OBTAINED, SUFFICIENT WATER SHALL BE ADDED SO THAT SATISFACTORY COMPACTION CAN BE OBTAINED.

THE CA 02 SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CU YD FOR AGGREGATE SUBGRADE IMPROVEMENT WHICH SHALL ALSO INCLUDE ALL EARTH EXCAVATION.

THE GEOTECHNICAL REINFORCEMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ YD FOR GEOTECHNICAL REINFORCEMENT.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 3-13-13

SUBGRADE REPLACEMENT 97.4

TYPICAL MEDIAN CROSSOVER CLOSURE

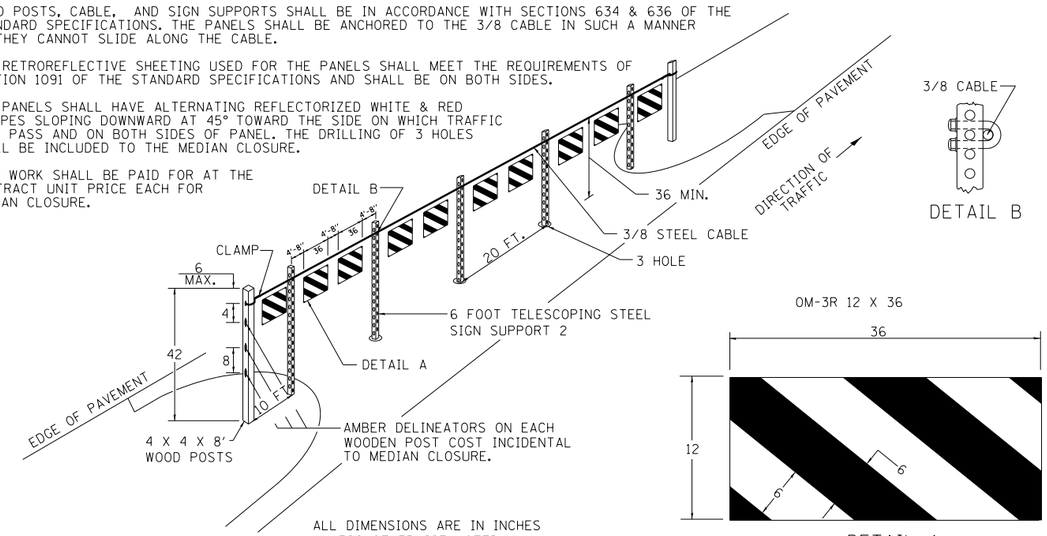
GENERAL NOTES

WOOD POSTS, CABLE, AND SIGN SUPPORTS SHALL BE IN ACCORDANCE WITH SECTIONS 634 & 636 OF THE STANDARD SPECIFICATIONS. THE PANELS SHALL BE ANCHORED TO THE 3/8 CABLE IN SUCH A MANNER SO THEY CANNOT SLIDE ALONG THE CABLE.

THE RETROREFLECTIVE SHEETING USED FOR THE PANELS SHALL MEET THE REQUIREMENTS OF SECTION 1091 OF THE STANDARD SPECIFICATIONS AND SHALL BE ON BOTH SIDES.

ALL PANELS SHALL HAVE ALTERNATING REFLECTORIZED WHITE & RED STRIPES SLOPING DOWNWARD AT 45° TOWARD THE SIDE ON WHICH TRAFFIC WILL PASS AND ON BOTH SIDES OF PANEL. THE DRILLING OF 3 HOLES SHALL BE INCLUDED TO THE MEDIAN CLOSURE.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR MEDIAN CLOSURE.



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 1-05-16
REVISED - 1-16-12

TYPICAL MEDIAN CROSSOVER CLOSURE 98.4

PLAN: SURVEYED | PLOTTED | DRAWN | CHECKED | QUANTITY CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE

PROFILE: SURVEYED | PLOTTED | DRAWN | CHECKED | B.M. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO. | BY | DATE

FILE NAME = D264D70-sht-Detail-001.dgn

KNIGHT Engineers & Architects

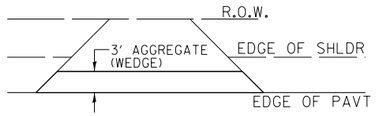
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DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

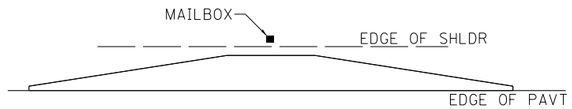
SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

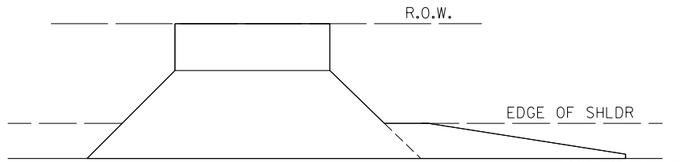
HOT–MIX ASPHALT APPROACHES & MAILBOX RETURNS FOR TWO LIFT (3P) RESURFACING PROJECTS



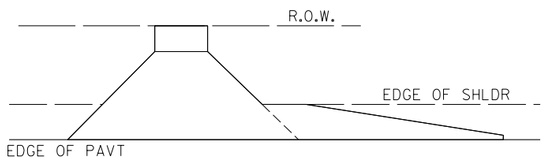
FIELD ENTRANCE



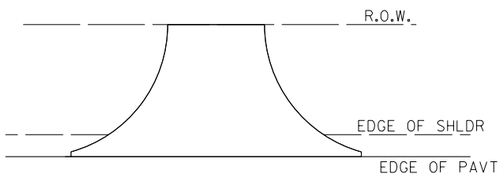
MAILBOX TURNOUT



COMMERCIAL ENTRANCE



PRIVATE ENTRANCE



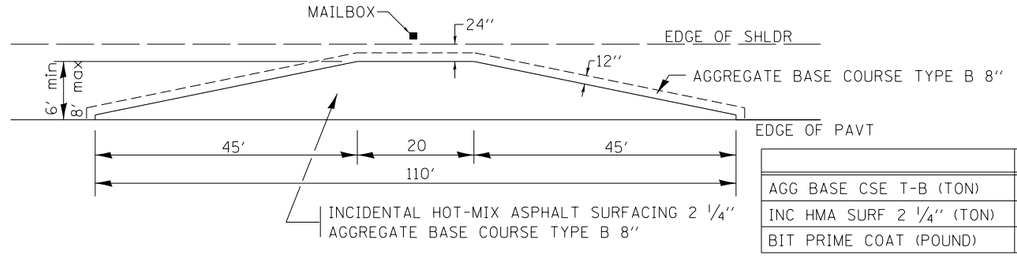
SIDE ROAD RETURN

NOTE: EXISTING HMA PE's, CE's, SR's, & MB TURNOUTS
Place 2 1/4" Incidental Hot-Mix Asphalt Surfacing on entrance to conform to the existing configuration.

EXISTING AGG. PE's & CE's
Place 2 1/4" Incidental Hot-Mix Asphalt Surfacing on existing entrance to conform to the present configuration.

EXISTING AGG. SIDEROADS
Place 3" Incidental Hot-Mix Asphalt Surfacing on sideroad to conform to the present configuration.

EXISTING AGG. MAILBOX TURNOUTS
Existing Agg. Mailbox Turnouts shall be constructed as shown below.



	6'	8'
AGG BASE CSE T-B (TON)	24.5	31.1
INC HMA SURF 2 1/4" (TON)	8.2	11.0
BIT PRIME COAT (POUND)	120	161

PLAN: SURVEYED / PLOTTED / QUANTITIES CHECKED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / PROFILES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY / DATE

FILE NAME = D264070-sht-Detail-001.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED	REVISED - 1-05-16
DRAWN - DJC	REVISED	REVISED - 7-21-15
CHECKED - DMS	REVISED	REVISED - 6-27-14
DATE - 12/14/2018	REVISED	REVISED - 10-21-08

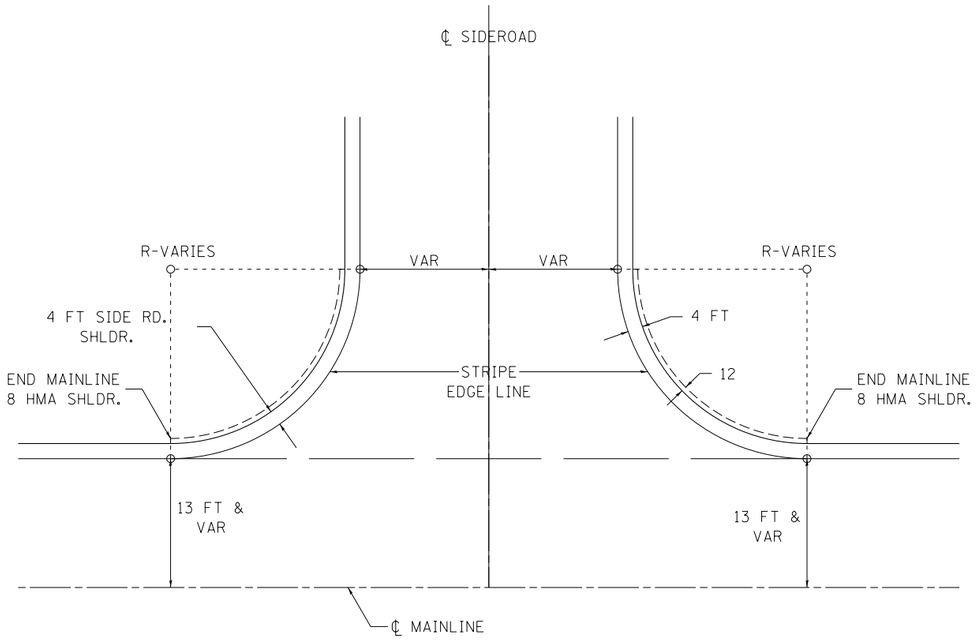
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

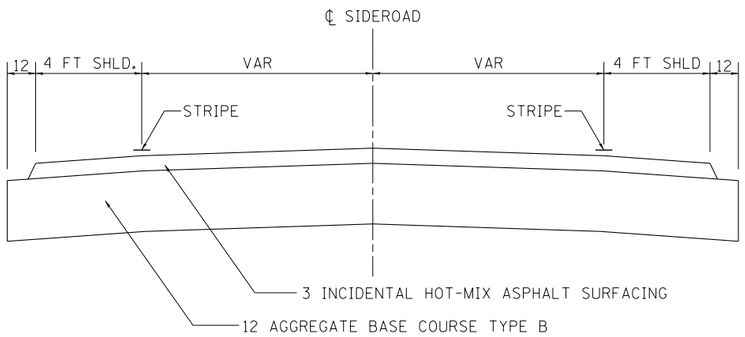
REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	107
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

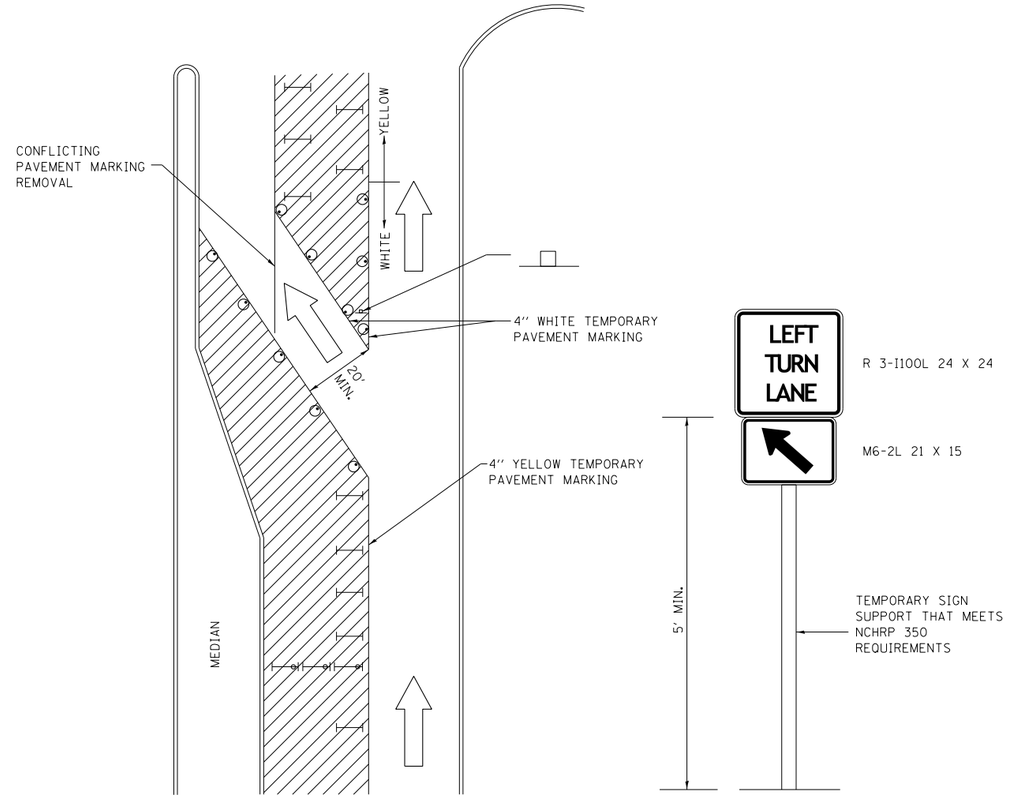
TYPICAL AGGREGATE BASE SIDEROAD





ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)



LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- TYPE I OR II BARRICADE OR DRUM WITH FLASHING BURNING LIGHT
- DRUM OR BARRICADE WITH STEADY BURN LIGHT
- SIGN (SEE DETAIL)
- TYPE I OR II CHECK BARRICADE WITH STEADY LIGHT BURN

GENERAL NOTES

CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 IN HEIGHT.

STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS WILL BE MONODIRECTIONAL.

TEMPORARY PAVEMENT MARKING SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.

THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 X 24 AND M6-2R 21 X 15 SHALL BE USED.

THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-14-11

PLAN — SURVEYED; PLOTTED; DESIGN CHECKED; ALIGNMENT CHECKED; RT. OF WAY CHECKED; CADD FILE NAME; NOTE BOOK; NO.; BY; DATE

PROFILE — SURVEYED; PLOTTED; DESIGN CHECKED; B.M. NOTED; STRUCTURE NOTATNS CHKD; NOTE BOOK; NO.; BY; DATE

FILE NAME = D264070-sht-Detail-001.dgn

TYPICAL AGGREGATE BASE SIDEROAD **93.2**

Traffic Control and Protection at Turn Bays (To Remain Open to Traffic) **94.2**

KNIGHT Engineers & Architects

	DESIGNED - DJC	REVISED - 10-14-11
	DRAWN - DJC	REVISED -
	CHECKED - DMS	REVISED -
	DATE - 12/14/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

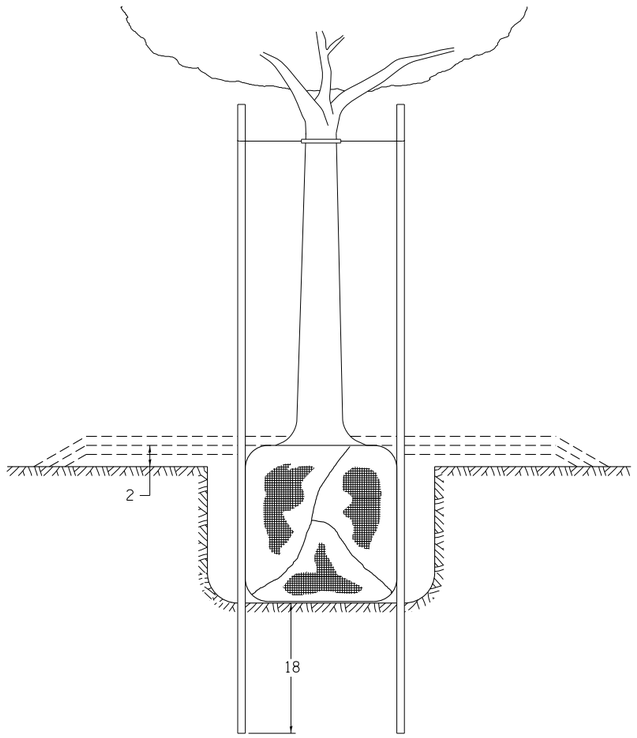
SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

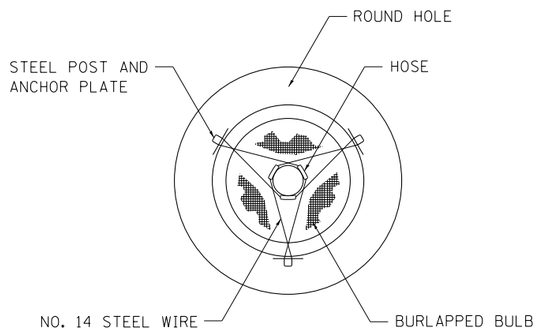
DETAILS OF PLANTING AND BRACING TREES

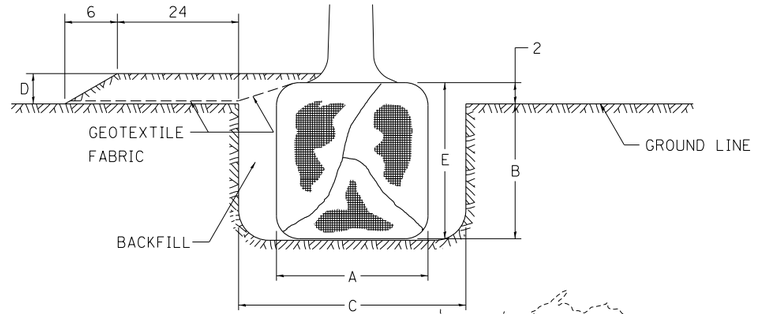
SMALL TREE SIZE	A DIAMETER OF BALL OR ROOT SYS.	B DEPTH OF HOLE EXCAVATION	C WIDTH OF HOLE EXCAVATION	D THICKNESS OF MULCH COVER	E DEPTH OF BALL OR ROOT SYS.	F VOLUME OF MULCH COVER CU. YDS.
5'-6'	16	10	30	4	12	0.54
5'-6' BB	16	10	30	4	12	0.54
6'-7' BB	18	12	30	4	14	0.54
7'-8' BB	20	11	30	4	13	0.54
8'-10' BB	24	14	36	4	16	0.61
10'-12' BB	26	15	36	4	17	0.61

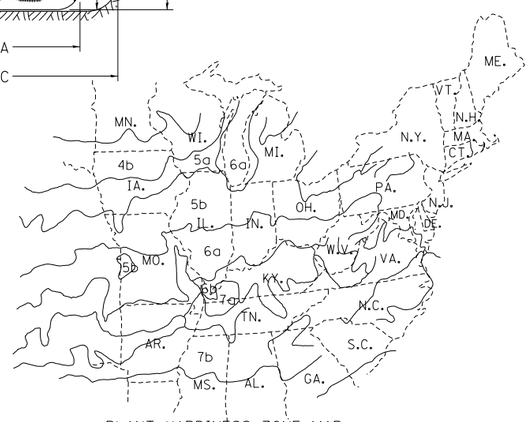
LARGE TREE SIZE	A DIAMETER OF BALL OR ROOT SYS.	B DEPTH OF HOLE EXCAVATION	C WIDTH OF HOLE EXCAVATION	D THICKNESS OF MULCH COVER	E DEPTH OF BALL OR ROOT SYS.	F VOLUME OF MULCH COVER CU. YDS.
0-2	20	11	36	4	13	0.61
2-2½ BB	24	14	48	4	16	0.78
2½-3 BB	28	17	48	4	19	0.78
3-3½ BB	32	17	60	4	19	0.96
3½-4 BB	36	20	60	4	22	0.96
4-4½ BB	40	22	72	4	24	1.16
4½-5 BB	44	24	72	4	26	1.16
5-5½ BB	48	27	84	4	29	1.38



TREES SMALLER THAN 4½ IN DIAMETER

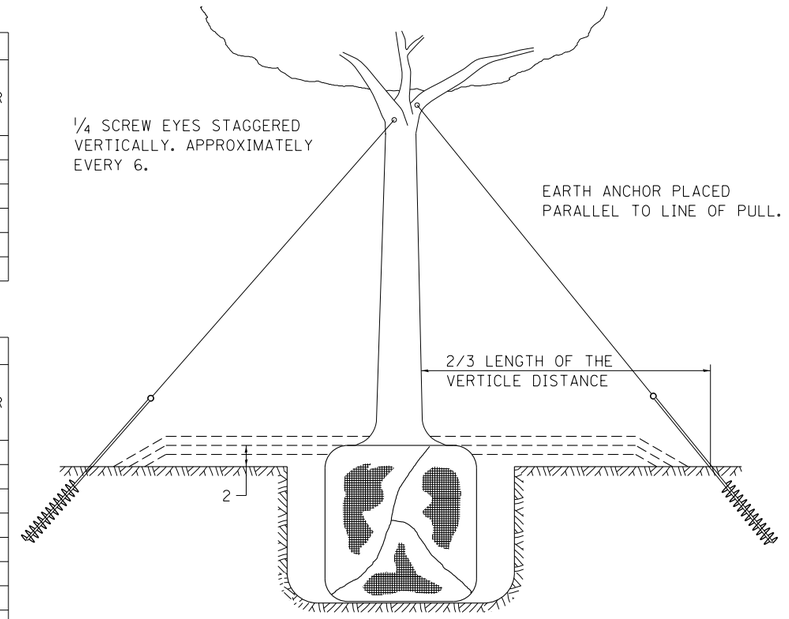




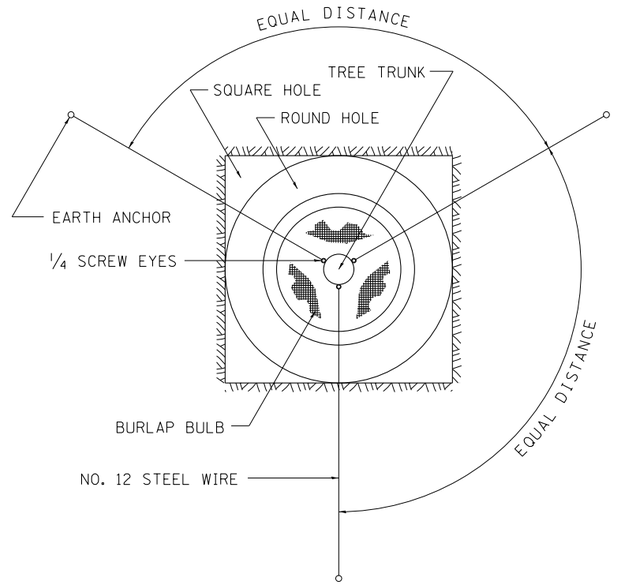


PLANT HARDINESS ZONE MAP

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814



TREES OVER 4½ IN DIAMETER



ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE NOTED.

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, PROFILE CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO. ____, BY, DATE

PROFILE: SURVEYED, PLOTTED, PROFILE CHECKED, BM. NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO. ____, BY, DATE

FILE NAME = D264D70-sht-Detail-001.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED - 10-18-11	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

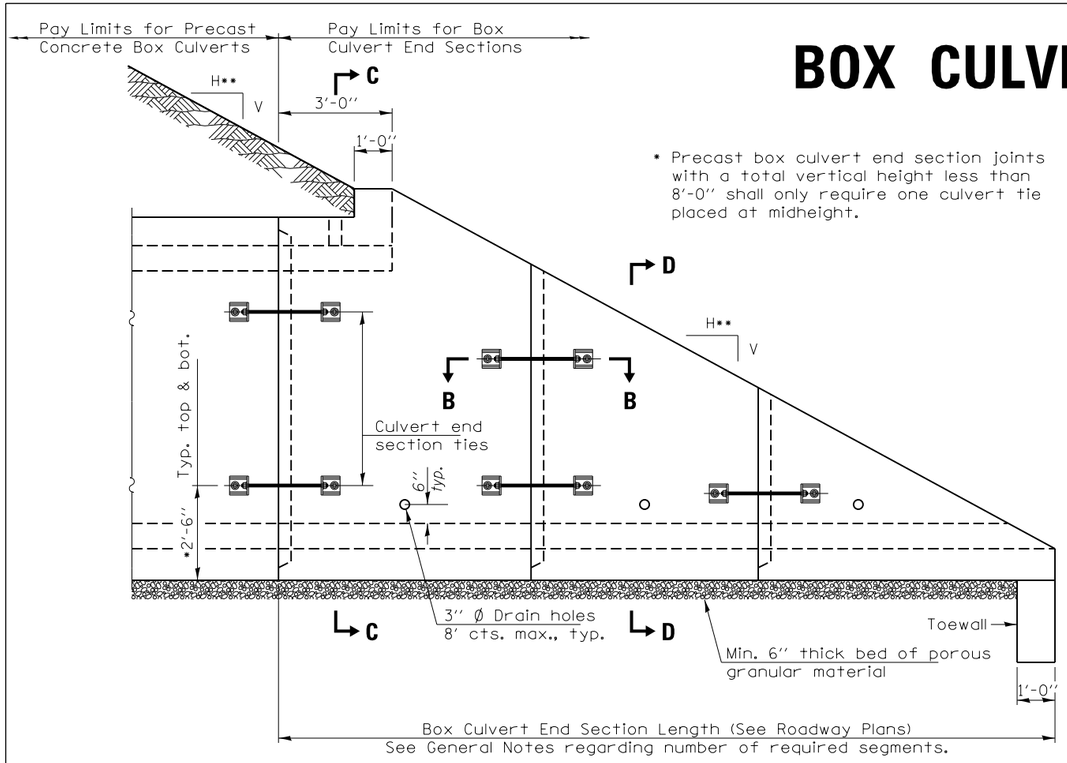
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS STA. TO STA.

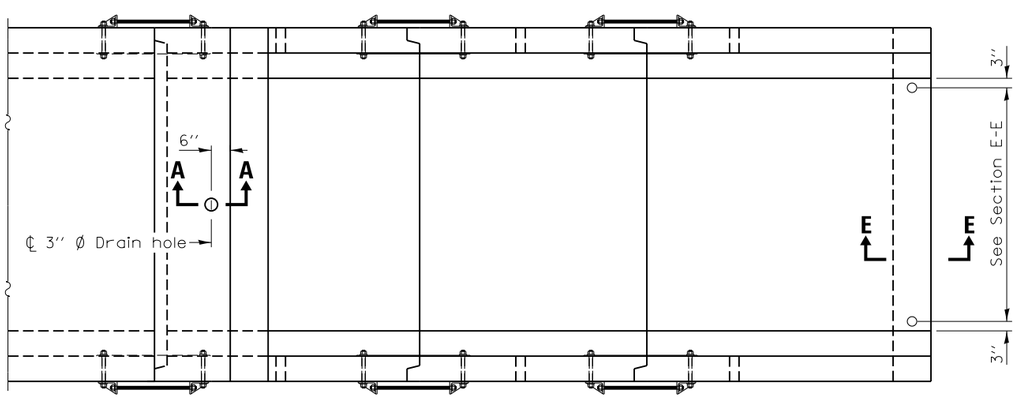
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	109
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BOX CULVERT END SECTIONS

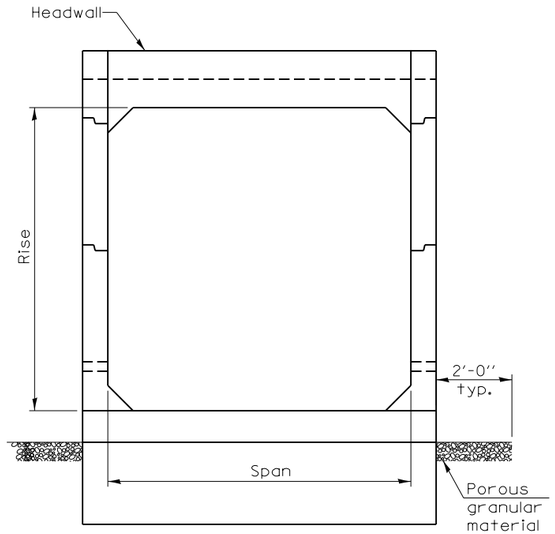


* Precast box culvert end section joints with a total vertical height less than 8'-0" shall only require one culvert tie placed at midheight.

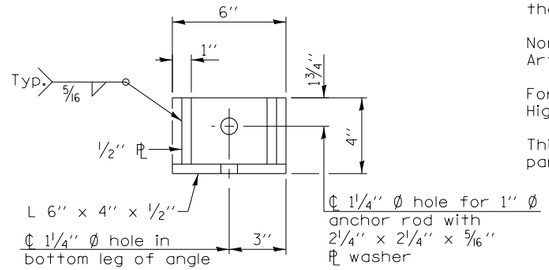
ELEVATION



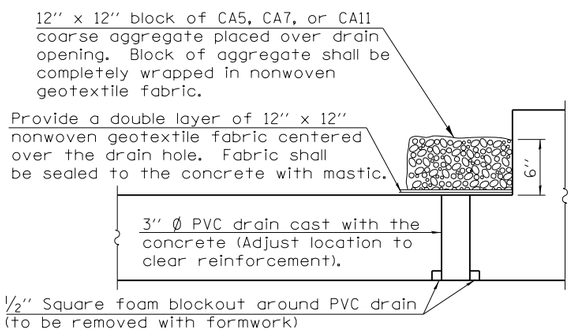
PLAN



END VIEW

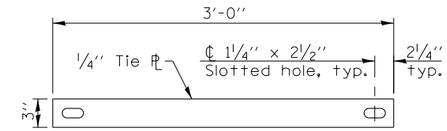


RESTRAINT ANGLE DETAIL

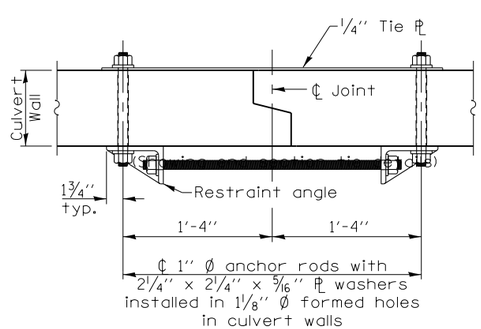


SECTION A–A

(All costs associated with furnishing and constructing the above drain details will not be measured for payment but shall be included in the contract unit price for the end section.)



TIE PLATE DETAIL



SECTION B–B

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. This work will be measured for payment as each, with each end of each culvert being one each. End sections will be paid for at the contract unit price per each for Box Culvert End Sections of the culvert number specified.

Typical box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements of ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

Number of segments shown in Side Elevation is for example only. Length and number of precast box sections required to construct Box Culvert End Sections shall be determined by the Contractor.

**See roadway plans for embankment slope (V:H). The Slope Must Match.

1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2¼" x 2¼" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional ½ turn on one of the nuts. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

All costs associated with furnishing and installing or constructing the geotextile fabric, toewall, and culvert ties will not be measured for payment but shall be included in the contract unit price for Box Culvert End Sections of the culvert number specified.

Reinforcement bars designated (E) shall be epoxy coated.

Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications unless noted otherwise.

Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01. The minimum weight of the fabric shall be 6 oz. / sq. yd..

For end sections with traversable pipe grate systems, see Highway Standard 542311 for required modifications.

This standard can be used for either cross drainage structures or parallel drainage structures.

PLAN — SURVEYED / PLOTTED / QUANTITIES CHECKED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

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FILE NAME = D264D70-sht-Detail-001.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED - 1-05-16	
DRAWN - DJC	REVISED - 5-09-14	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

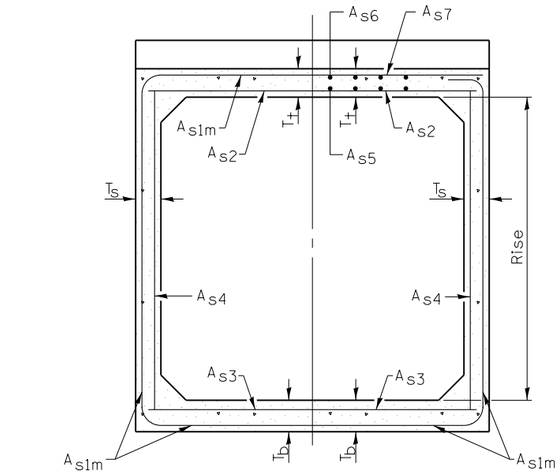
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS STA. TO STA.

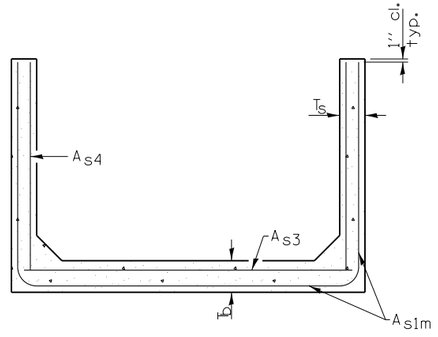
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	110
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BOX CULVERT END SECTIONS

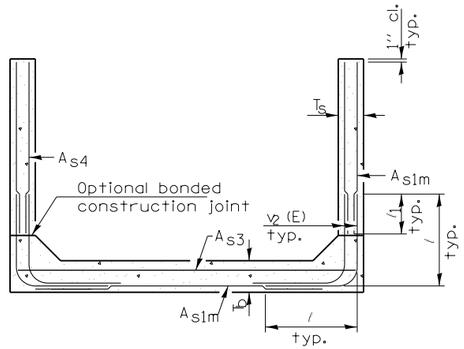


(Design Earth Cover < 2 ft.) (Design Earth Cover > 2 ft.)

SECTION C–C



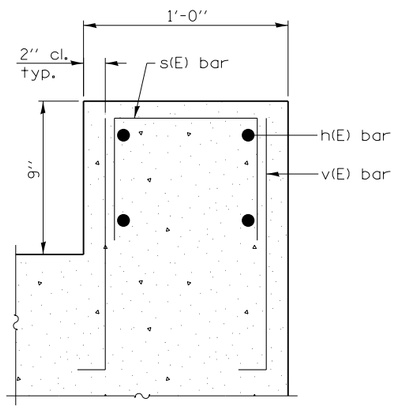
SECTION D–D



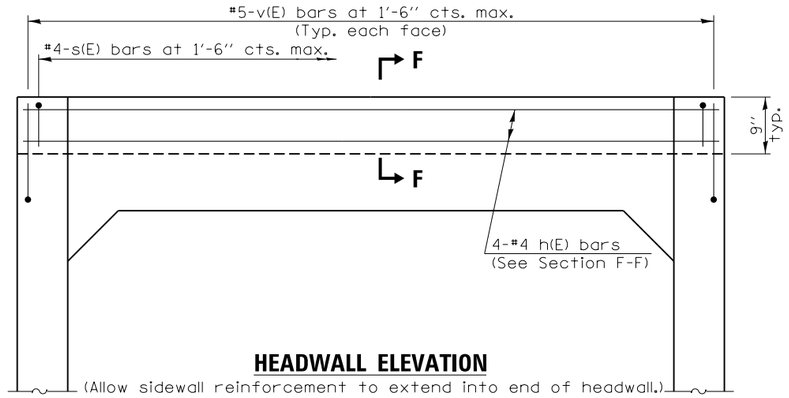
ALTERNATE SECTION D–D

Rise (ft.) / T(in.), Ts (in.)	Reinforcing Steel A_{s1m} (in.²/ft.)										
	2	3	4	5	6	7	8	9	10	11	12
4	0.19	0.17									
5	0.26	0.21	0.18								
6		0.26	0.23	0.22							
7		0.33	0.59	0.27	0.28						
8			0.43	0.39	0.36	0.34	0.40				
9				0.43	0.40	0.37	0.36	0.48			
10				0.47	0.44	0.41	0.38	0.42	0.56		
11			0.54		0.46		0.41		0.50	0.65	
12			0.58		0.50		0.45		0.46		0.75

(A_{s1m} reinforcement based upon welded wire reinforcement conforming to AASHTO M 55 or M 221).



SECTION F–F



HEADWALL ELEVATION

(Allow sidewall reinforcement to extend into end of headwall.)

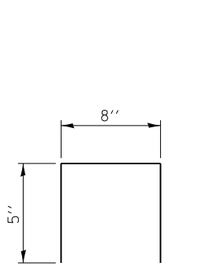
l_1 DIMENSION

#3 bar = 2'-0"
#4 bar = 2'-8"
#5 bar = 3'-4"
#6 bar = 3'-11"

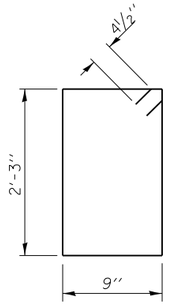
Notes:
Alternate Section D-D is provided to allow the Contractor the option of casting the bottom slab of the end section first followed by construction of the sidewalls using conventional forming methods. Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval when using Alternate Section D-D.

The size and spacing of the v_2(E) bars shall provide a minimum reinforcement area along each face of the walls (in.²/ft.) equal to 1.10•(A_{s1m}). v_2(E) bars may consist of #3 thru #6 size reinforcement bars and the longitudinal spacing shall not exceed the lesser of the wall thickness or 8 inches.

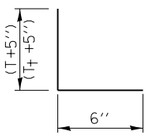
Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.



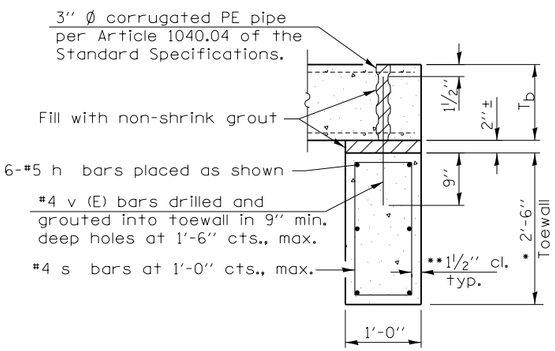
BAR s(E)



BAR s_1



BAR v(E)



SECTION E–E

TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
2. Backfill according to the applicable paragraphs of Article 502.10 of the Standard Specifications and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and grout reinforcement in toewall using approved chemical adhesive in accordance with Section 1027 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Article 1024.02 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling the method.

** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

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PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO.

FILE NAME = D264D70-sht-Detail-001.dgn

KNIGHT Engineers & Architects

	DESIGNED - DJC	REVISED - 1-05-16	
	DRAWN - DJC	REVISED - 5-09-14	
	CHECKED - DMS	REVISED -	
	DATE - 12/14/2018	REVISED -	

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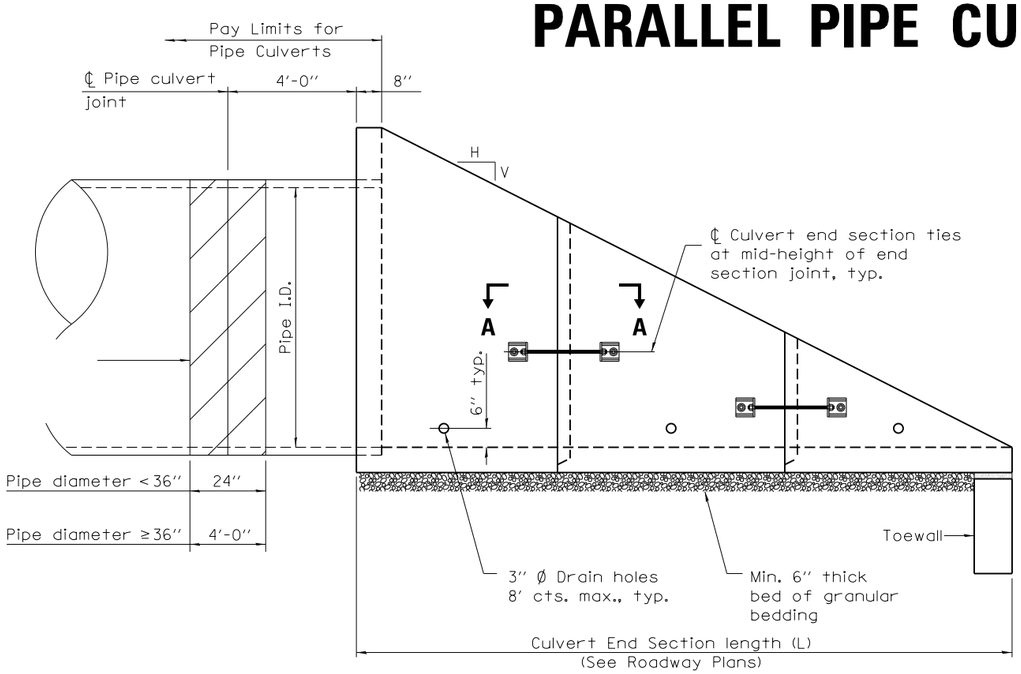
REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS STA. TO STA.

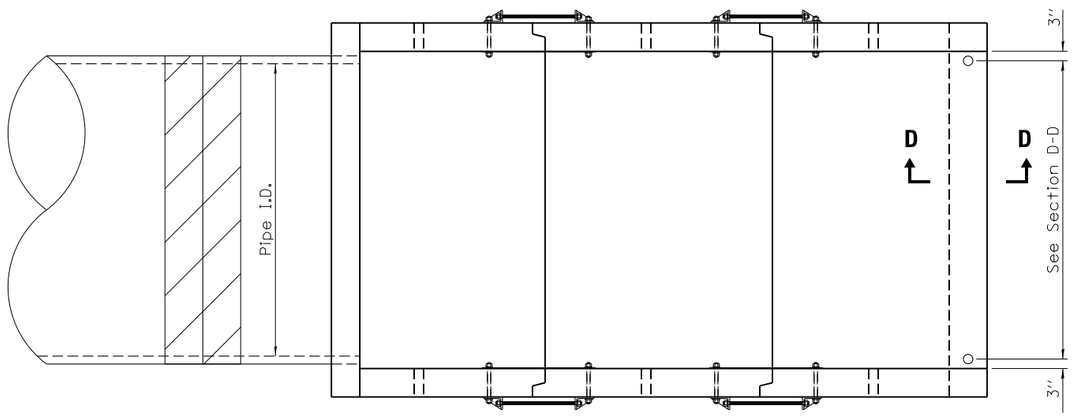
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	111
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BOX CULVERT END SECTIONS 2 OF 2 **10.1**

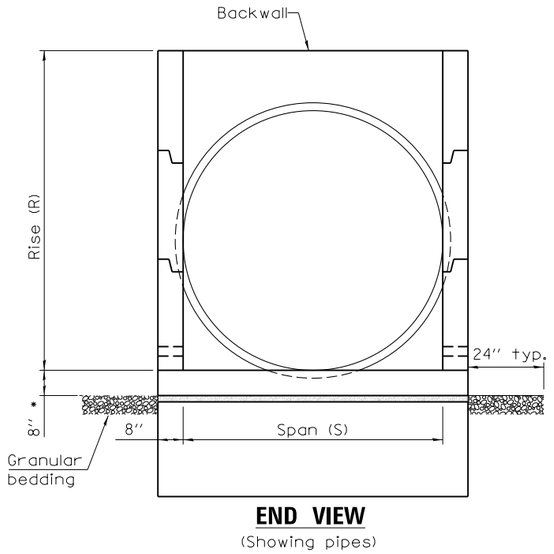
CONCRETE END SECTIONS FOR PARALLEL PIPE CULVERTS 15" THRU 84" DIA.



ELEVATION

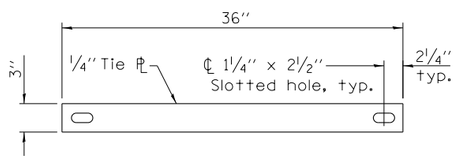


PLAN

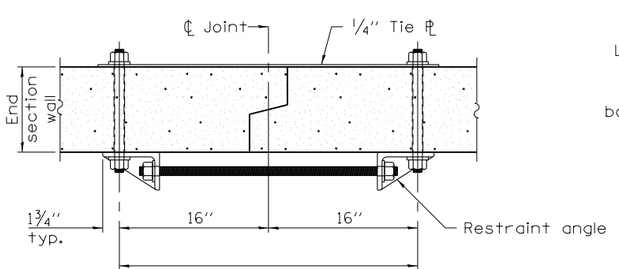


END VIEW
(Showing pipes)

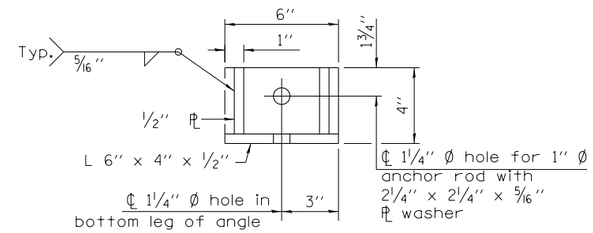
- This dimension shall be increased by 1½" for CIP field construction. See General Notes.



TIE PLATE DETAIL



SECTION A–A



RESTRAINT ANGLE DETAIL

GENERAL NOTES

The concrete end sections detailed herein for flexible type pipe culverts are restricted to use with parallel type drainage structures only and traversable pipe grating placed perpendicular to the sidewalls. When traversable pipe grating placed parallel to the sidewalls is required, use standard 542001 or 542011.

A segment of pipe culvert shall be cast into the backwall of the concrete end section such that a minimum of 4 ft of pipe culvert extends from the back face of the end section as shown in Elevation.

Segments of pipe culvert shall be joined in accordance with Article 542 of the Standard Specifications except bands for corrugated steel or aluminum culverts shall conform to the length requirements shown in elevation and have the same corrugations as the culvert pipe. These bands will be included in cost of the pipe.

The number of segments shown in elevation is for example only. The length and number of precast sections required to construct the end section shall be determined by the Contractor.

See roadway plans for slope (V:H) and pipe inside diameter.

2¼" x 2¼" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of formed holes.

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

All dimensions are in inches unless otherwise shown.

PLAN: SURVEYED, PLOTTED, QUANTITIES CHECKED, R.T. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO. — BY, DATE

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FILE NAME = D264D70-sht-Detail-001.dgn

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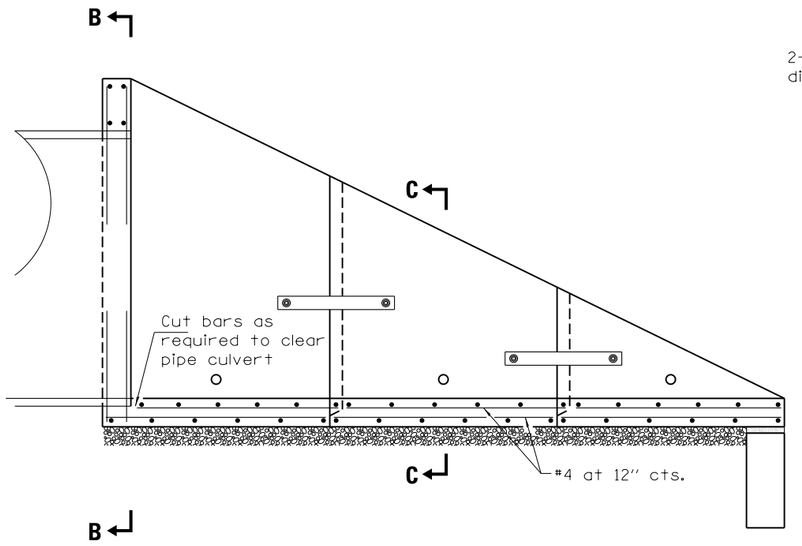
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	112
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

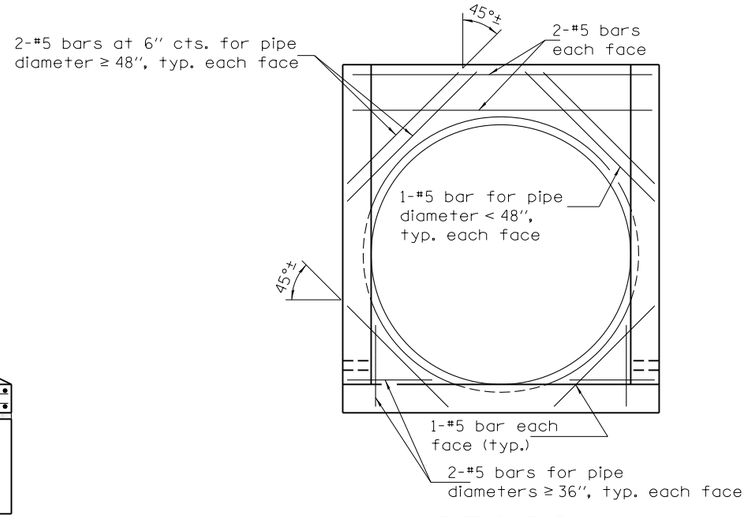
SHEET NO. OF SHEETS STA. TO STA.

CONCRETE END SECTIONS FOR PARALLEL PIPE CULVERTS 15" THRU 84" DIA.



LONGITUDINAL SECTION

(Showing bottom slab and backwall reinforcement.)



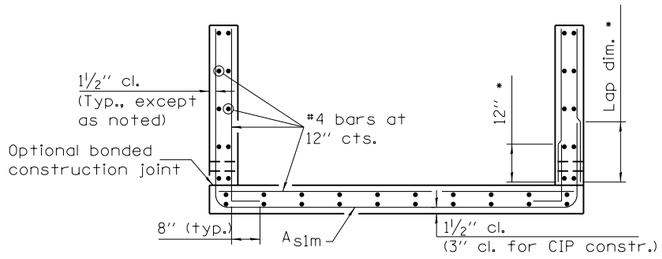
SECTION B–B

(Showing backwall reinforcement for pipes.)

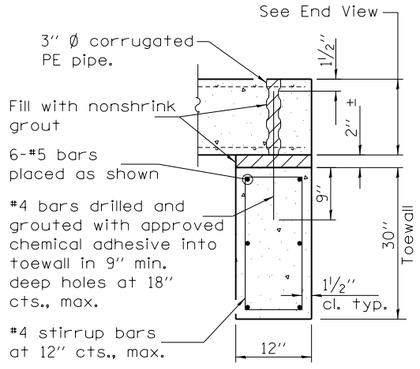
LAP DIMENSION

#4 bar = 17"
#5 bar = 21"
#6 bar = 25"

* The Contractor may use lap splices for the sidewall reinforcement at the locations shown.



SECTION C–C



SECTION D–D

PARALLEL PIPE CULVERT END SECTION DIMENSIONS

Pipe I.D.	Tables IB, IC, IIIA, IIIB, AND IIIC				
	R	S	L Slope of End Section 1:4	1:6	1:10
15"	25"	16"	9'-0"	13'-2"	21'-6"
18"	28"	18"	10'-0"	14'-8"	24'-0"
21"	31"	22"	11'-0"	16'-2"	26'-6"
24"	35"	24"	12'-4"	18'-2"	29'-10"
30"	3'-5"	30"	14'-4"	21'-2"	34'-10"
36"	3'-11"	36"	16'-4"	24'-2"	39'-10"
42"	4'-5"	3'-6"	18'-4"	27'-2"	44'-10"
48"	5'-0"	4'-0"	20'-8"	30'-8"	50'-8"
54"	5'-4"	4'-6"	22'-0"	32'-8"	54'-0"
60"	5'-10"	5'-0"	24'-0"	35'-8"	59'-0"
66"	6'-4"	5'-6"	26'-0"	38'-8"	64'-0"
72"	6'-10"	6'-0"	28'-0"	41'-8"	69'-0"
78"	7'-4"	6'-6"	30'-0"	44'-8"	74'-0"
84"	7'-10"	7'-0"	32'-0"	47'-8"	79'-0"

REINFORCEMENT SCHEDULE

PIPES		
Pipe I.D.	Asim Bar Size	Asim Bar Spacing
15"	#4	12"
18"	#4	12"
21"	#4	12"
24"	#4	12"
30"	#4	12"
36"	#4	12"
42"	#4	12"
48"	#4	8"
54"	#4	8"
60"	#5	8"
66"	#5	8"
72"	#5	8"
78"	#5	8"
84"	#6	8"

The above "Tables" are referenced from Article 542.03 of the Standard Specifications.

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTAT'NS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = D264070-sht-Detail-001.dgn

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CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	113
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONCRETE END SECTIONS FOR PARALLEL PIPE CULVERTS 15" THRU 84" DIA.

PLAN | SURVEYED | PLOTTED | QUANTITIES CHECKED | ALIGNMENT CHECKED | BM. NOTED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE

PROFILE | SURVEYED | PLOTTED | CROSS SECTIONS CHECKED | B.M. NOTED | STRUCTURE NOTATIONS CHKD | NOTE BOOK | NO. | BY | DATE

QUANTITIES

Pipe I.D.	Tables IB, IC, IIIA, IIIB, and IIIC								
	Concrete yd^3			Reinforcement without Lap lbs.			Reinforcement with Lap lbs.		
	Slope of End Section			Slope of End Section			Slope of End Section		
	1:4	1:6	1:10	1:4	1:6	1:10	1:4	1:6	1:10
15"	1.4	1.9	2.8	250	330	510	270	350	540
18"	1.6	2.2	3.4	290	400	600	310	420	640
21"	2.0	2.7	4.2	330	450	690	360	480	740
24"	2.3	3.2	5.0	370	510	790	400	550	850
30"	3.1	4.3	6.7	490	680	1060	520	720	1130
36"	3.9	5.5	8.7	580	810	1270	620	870	1360
42"	4.9	6.9	10.9	720	1020	1610	770	1080	1710
48"	6.0	8.6	13.7	940	1320	2090	1010	1420	2240
54"	6.9	9.8	15.7	1090	1540	2440	1160	1650	2610
60"	8.1	11.6	18.6	1410	2000	3190	1530	2180	3480
66"	9.5	13.6	21.8	1650	2360	3780	1780	2560	4100
72"	10.9	15.7	25.2	1840	2630	4220	1990	2850	4580
78"	12.4	17.9	28.9	2110	3040	4900	2280	3280	5290
84"	14.1	20.3	32.8	2710	3910	6320	2970	4290	6950

The above quantities are estimates and provided for information only. Actual quantities may vary depending upon the final layout of reinforcement and number of segments determined by the Contractor.

For cast-in-place construction, increase concrete volumes by approximately 12%.

FILE NAME = D264D70-sht-Detail-001.dgn

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DESIGNED - DJC	REVISED - 5-09-14	
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DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	114
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAVERSABLE PIPE GRATE FOR BOX CULVERT END SECTIONS

PLAN | SURVEYED | PLOTTED | CROSS CHECKED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE

PROFILE | SURVEYED | PLOTTED | CROSS CHECKED | B.M. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO. | BY | DATE

PIPE-GRATE SCHEDULE FOR BOX CULVERT END SECTIONS

Precast Box Culvert Dimensions			Slope of End Section								
			1:3			1:4			1:6		
S (ft)	R (ft)	T, (in)	Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe	Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe	Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe
4	2	7.5	1 @ 8'-10"	N/A	8'-10"	1 @ 11'-7"	N/A	11'-7"	1 @ 17'-2"	N/A	17'-2"
4	2	5	1 @ 8'-2"	N/A	8'-2"	1 @ 10'-8"	N/A	10'-8"	1 @ 15'-11"	N/A	15'-11"
4	3	7.5	1 @ 12'-0"	N/A	12'-0"	1 @ 15'-8"	N/A	15'-8"	1 @ 23'-3"	1 @ 3'-7"	26'-10"
4	3	5	1 @ 11'-4"	N/A	11'-4"	1 @ 14'-10"	N/A	14'-10"	1 @ 22'-0"	1 @ 3'-7"	25'-7"
4	4	7.5	1 @ 15'-2"	N/A	15'-2"	1 @ 19'-10"	1 @ 3'-7"	23'-5"	1 @ 29'-4"	2 @ 3'-7"	36'-6"
4	4	5	1 @ 14'-6"	N/A	14'-6"	1 @ 18'-11"	N/A	18'-11"	1 @ 28'-1"	2 @ 3'-7"	35'-3"
5	2	8	1 @ 8'-11"	N/A	8'-11"	1 @ 11'-9"	N/A	11'-9"	1 @ 17'-5"	N/A	17'-5"
5	2	6	1 @ 8'-5"	N/A	8'-5"	1 @ 11'-1"	N/A	11'-1"	1 @ 16'-5"	N/A	16'-5"
5	3	8	1 @ 12'-1"	N/A	12'-1"	1 @ 15'-10"	N/A	15'-10"	1 @ 23'-6"	1 @ 4'-7"	28'-1"
5	3	6	1 @ 11'-7"	N/A	11'-7"	1 @ 15'-2"	N/A	15'-2"	1 @ 22'-6"	1 @ 4'-7"	27'-1"
5	4	8	1 @ 15'-3"	N/A	15'-3"	1 @ 20'-0"	1 @ 4'-7"	24'-7"	1 @ 29'-7"	2 @ 4'-7"	38'-9"
5	4	6	1 @ 14'-9"	N/A	14'-9"	1 @ 19'-3"	N/A	19'-3"	1 @ 28'-7"	2 @ 4'-7"	37'-9"
5	5	8	1 @ 18'-5"	N/A	18'-5"	1 @ 24'-1"	2 @ 4'-7"	33'-3"	1 @ 35'-8"	3 @ 4'-7"	49'-5"
5	5	6	1 @ 17'-11"	N/A	17'-11"	1 @ 23'-5"	1 @ 4'-7"	28'-0"	1 @ 34'-8"	2 @ 4'-7"	43'-10"
6	2	8	2 @ 8'-11"	N/A	17'-10"	2 @ 11'-9"	N/A	23'-6"	2 @ 17'-5"	N/A	34'-10"
6	2	7	2 @ 8'-8"	N/A	17'-4"	2 @ 11'-5"	N/A	22'-10"	2 @ 16'-11"	N/A	33'-10"
6	3	8	2 @ 12'-1"	N/A	24'-2"	2 @ 15'-10"	N/A	31'-8"	2 @ 23'-6"	1 @ 5'-7"	52'-7"
6	3	7	2 @ 11'-10"	N/A	23'-8"	2 @ 15'-6"	N/A	31'-0"	2 @ 23'-0"	1 @ 5'-7"	51'-7"
6	4	8	2 @ 15'-3"	N/A	30'-6"	2 @ 20'-0"	1 @ 5'-7"	45'-7"	2 @ 29'-7"	2 @ 5'-7"	70'-4"
6	4	7	2 @ 15'-0"	N/A	30'-0"	2 @ 19'-8"	1 @ 5'-7"	44'-11"	2 @ 29'-1"	2 @ 5'-7"	69'-4"
6	5	8	2 @ 18'-5"	N/A	36'-10"	2 @ 24'-1"	2 @ 5'-7"	59'-4"	2 @ 35'-8"	3 @ 5'-7"	88'-1"
6	5	7	2 @ 18'-2"	N/A	36'-4"	2 @ 23'-9"	2 @ 5'-7"	58'-8"	2 @ 35'-2"	2 @ 5'-7"	81'-6"
6	6	8	2 @ 21'-7"	1 @ 5'-7"	48'-9"	2 @ 28'-3"	2 @ 5'-7"	67'-8"	2 @ 41'-9"	3 @ 5'-7"	100'-3"
6	6	7	2 @ 21'-4"	1 @ 5'-7"	48'-3"	2 @ 27'-11"	2 @ 5'-7"	67'-0"	2 @ 41'-3"	3 @ 5'-7"	99'-3"
7	2	8	2 @ 8'-11"	N/A	17'-10"	2 @ 11'-9"	N/A	23'-6"	2 @ 17'-5"	N/A	34'-10"
7	3	8	2 @ 12'-1"	N/A	24'-2"	2 @ 15'-10"	N/A	31'-8"	2 @ 23'-6"	2 @ 6'-7"	60'-2"
7	4	8	2 @ 15'-3"	N/A	30'-6"	2 @ 20'-0"	2 @ 6'-7"	53'-2"	2 @ 29'-7"	3 @ 6'-7"	78'-11"
7	5	8	2 @ 18'-5"	N/A	36'-10"	2 @ 24'-1"	3 @ 6'-7"	67'-11"	2 @ 35'-8"	4 @ 6'-7"	97'-8"
7	6	8	2 @ 21'-7"	2 @ 6'-7"	56'-4"	2 @ 28'-3"	3 @ 6'-7"	76'-3"	2 @ 41'-9"	5 @ 6'-7"	116'-5"
7	7	8	2 @ 24'-9"	3 @ 6'-7"	69'-3"	2 @ 32'-4"	4 @ 6'-7"	91'-0"	2 @ 47'-10"	6 @ 6'-7"	135'-2"
8	2	8	3 @ 8'-11"	N/A	26'-9"	3 @ 11'-9"	N/A	35'-3"	3 @ 17'-5"	N/A	52'-3"
8	3	8	3 @ 12'-1"	N/A	36'-3"	3 @ 15'-10"	N/A	47'-6"	3 @ 23'-6"	2 @ 7'-7"	85'-8"
8	4	8	3 @ 15'-3"	N/A	45'-9"	3 @ 20'-0"	2 @ 7'-7"	75'-2"	3 @ 29'-7"	3 @ 7'-7"	111'-6"
8	5	8	3 @ 18'-5"	N/A	55'-3"	3 @ 24'-1"	3 @ 7'-7"	95'-0"	3 @ 35'-8"	4 @ 7'-7"	137'-4"
8	6	8	3 @ 21'-7"	2 @ 7'-7"	79'-11"	3 @ 28'-3"	3 @ 7'-7"	107'-6"	3 @ 41'-9"	5 @ 7'-7"	163'-2"
8	7	8	3 @ 24'-9"	3 @ 7'-7"	97'-0"	3 @ 32'-4"	4 @ 7'-7"	127'-4"	3 @ 47'-10"	6 @ 7'-7"	189'-0"
8	8	8	3 @ 27'-11"	3 @ 7'-7"	106'-6"	3 @ 36'-6"	4 @ 7'-7"	139'-10"	3 @ 53'-11"	6 @ 7'-7"	207'-3"
9	2	9	3 @ 9'-3"	N/A	27'-9"	3 @ 12'-1"	N/A	36'-3"	3 @ 17'-11"	N/A	53'-9"
9	3	9	3 @ 12'-4"	N/A	37'-0"	3 @ 16'-2"	N/A	48'-6"	3 @ 24'-0"	3 @ 8'-7"	97'-9"
9	4	9	3 @ 15'-6"	N/A	46'-6"	3 @ 20'-4"	2 @ 8'-7"	78'-2"	3 @ 30'-1"	3 @ 8'-7"	116'-0"
9	5	9	3 @ 18'-8"	N/A	56'-0"	3 @ 24'-5"	3 @ 8'-7"	99'-0"	3 @ 36'-2"	4 @ 8'-7"	142'-10"
9	6	9	3 @ 21'-10"	2 @ 8'-7"	82'-8"	3 @ 28'-7"	3 @ 8'-7"	111'-6"	3 @ 42'-3"	5 @ 8'-7"	169'-8"
9	7	9	3 @ 25'-0"	3 @ 8'-7"	100'-9"	3 @ 32'-8"	4 @ 8'-7"	132'-4"	3 @ 48'-4"	6 @ 8'-7"	196'-6"
9	8	9	3 @ 28'-2"	3 @ 8'-7"	110'-3"	3 @ 36'-10"	4 @ 8'-7"	144'-10"	3 @ 54'-5"	6 @ 8'-7"	214'-9"
9	9	9	3 @ 31'-4"	3 @ 8'-7"	119'-9"	3 @ 40'-11"	5 @ 8'-7"	165'-8"	3 @ 60'-6"	7 @ 8'-7"	241'-7"
10	2	10	3 @ 9'-6"	N/A	28'-6"	3 @ 12'-5"	N/A	37'-3"	3 @ 18'-5"	N/A	55'-3"
10	3	10	3 @ 12'-8"	N/A	38'-0"	3 @ 16'-6"	N/A	49'-6"	3 @ 24'-6"	3 @ 9'-7"	102'-3"
10	4	10	3 @ 15'-10"	N/A	47'-6"	3 @ 20'-8"	2 @ 9'-7"	81'-2"	3 @ 30'-7"	3 @ 9'-7"	120'-6"
10	5	10	3 @ 19'-0"	N/A	57'-0"	3 @ 24'-9"	3 @ 9'-7"	103'-0"	3 @ 36'-8"	4 @ 9'-7"	148'-4"
10	6	10	3 @ 22'-1"	2 @ 9'-7"	85'-5"	3 @ 28'-11"	3 @ 9'-7"	115'-6"	3 @ 42'-9"	5 @ 9'-7"	176'-2"
10	7	10	3 @ 25'-3"	3 @ 9'-7"	104'-6"	3 @ 33'-0"	4 @ 9'-7"	137'-4"	3 @ 48'-10"	6 @ 9'-7"	204'-0"
10	8	10	3 @ 28'-5"	3 @ 9'-7"	114'-0"	3 @ 37'-2"	4 @ 9'-7"	149'-10"	3 @ 54'-11"	6 @ 9'-7"	222'-3"
10	9	10	3 @ 31'-7"	4 @ 9'-7"	133'-1"	3 @ 41'-3"	5 @ 9'-7"	171'-8"	3 @ 61'-0"	7 @ 9'-7"	250'-1"
10	10	10	3 @ 34'-9"	4 @ 9'-7"	142'-7"	3 @ 45'-5"	5 @ 9'-7"	184'-2"	3 @ 67'-1"	8 @ 9'-7"	277'-11"
11	2	11	4 @ 9'-9"	N/A	39'-0"	4 @ 12'-9"	N/A	51'-0"	4 @ 18'-11"	N/A	75'-8"
11	3	11	4 @ 12'-11"	N/A	51'-8"	4 @ 16'-11"	N/A	67'-8"	4 @ 25'-0"	3 @ 10'-7"	131'-9"
11	4	11	4 @ 16'-1"	N/A	64'-4"	4 @ 21'-0"	2 @ 10'-7"	105'-2"	4 @ 31'-1"	3 @ 10'-7"	156'-1"
11	6	11	4 @ 22'-5"	2 @ 10'-7"	110'-10"	4 @ 29'-3"	3 @ 10'-7"	148'-9"	4 @ 43'-3"	5 @ 10'-7"	225'-11"
11	8	11	4 @ 28'-9"	3 @ 10'-7"	146'-9"	4 @ 37'-6"	4 @ 10'-7"	192'-4"	4 @ 55'-5"	6 @ 10'-7"	285'-2"
11	10	11	4 @ 35'-0"	4 @ 10'-7"	182'-4"	4 @ 45'-9"	5 @ 10'-7"	235'-11"	4 @ 67'-7"	8 @ 10'-7"	355'-0"
11	11	11	4 @ 38'-2"	4 @ 10'-7"	195'-0"	4 @ 49'-10"	6 @ 10'-7"	262'-10"	4 @ 73'-8"	9 @ 10'-7"	389'-11"
12	2	12	4 @ 10'-0"	N/A	40'-0"	4 @ 13'-1"	N/A	52'-4"	4 @ 19'-5"	N/A	77'-8"
12	3	12	4 @ 13'-2"	N/A	52'-8"	4 @ 17'-3"	N/A	69'-0"	4 @ 25'-6"	3 @ 11'-7"	136'-9"
12	4	12	4 @ 16'-4"	N/A	65'-4"	4 @ 21'-4"	2 @ 11'-7"	108'-6"	4 @ 31'-7"	4 @ 11'-7"	172'-8"
12	6	12	4 @ 22'-8"	2 @ 11'-7"	113'-10"	4 @ 29'-7"	3 @ 11'-7"	153'-1"	4 @ 43'-9"	5 @ 11'-7"	232'-11"
12	8	12	4 @ 29'-0"	3 @ 11'-7"	150'-9"	4 @ 37'-10"	4 @ 11'-7"	197'-8"	4 @ 55'-11"	7 @ 11'-7"	304'-9"
12	10	12	4 @ 35'-4"	4 @ 11'-7"	187'-8"	4 @ 46'-1"	5 @ 11'-7"	242'-3"	4 @ 68'-1"	8 @ 11'-7"	365'-0"
12	12	12	4 @ 41'-8"	5 @ 11'-7"	224'-7"	4 @ 54'-4"	6 @ 11'-7"	286'-10"	4 @ 80'-3"	10 @ 11'-7"	436'-10"

GENERAL NOTES

For layout of traversable pipe grate system, see Highway Standard 542311.

This table is only to be used for cross drainage structures.

FILE NAME = D264070-sht-Detail-001.dgn

KNIGHT Engineers & Architects

	DESIGNED - DJC	REVISED - 5-09-14
	DRAWN - DJC	REVISED -
	CHECKED - DMS	REVISED -
	DATE - 12/14/2018	REVISED -

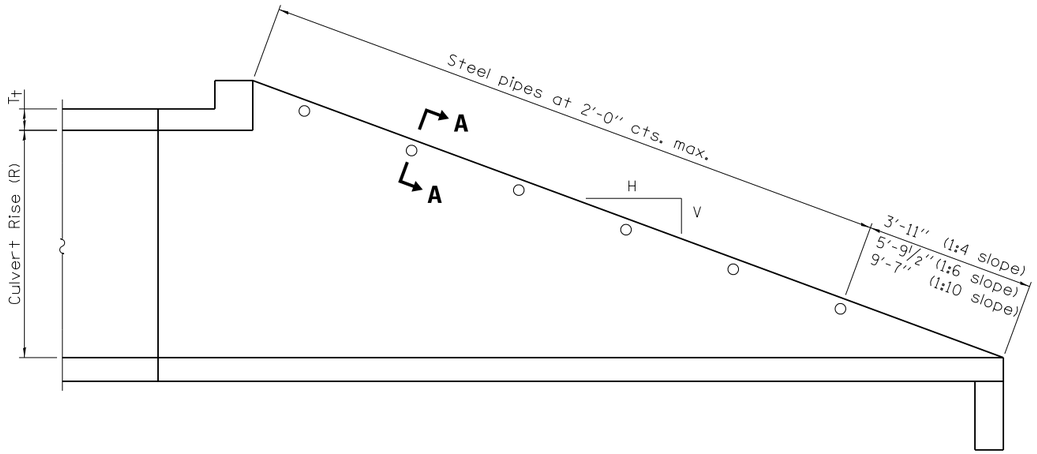
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

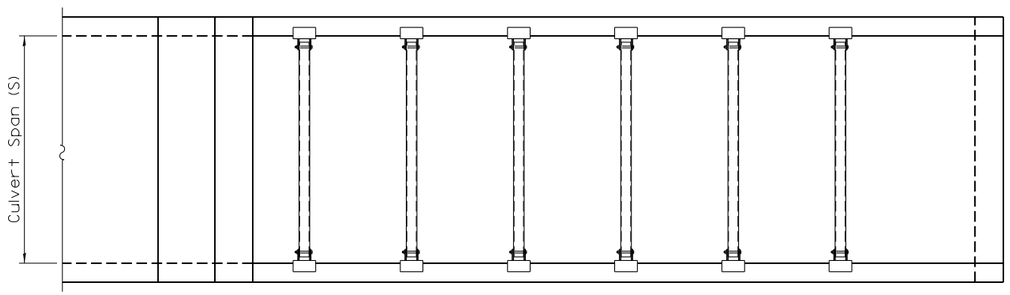
SHEET NO. OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	115
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAVERSABLE PIPE GRATE FOR PARALLEL DRAINAGE STRUCTURE



LONGITUDINAL SECTION



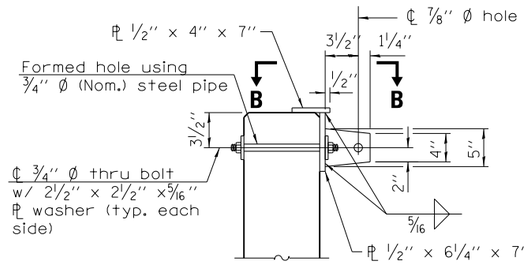
PLAN VIEW

GENERAL NOTES

The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 1½" unless noted otherwise.

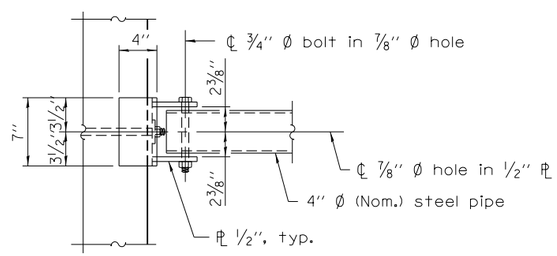
This standard shall only be used on concrete end sections for parallel drainage structures.

The Contractor may install the thru bolts using drilling and grouting in lieu of providing a formed hole using steel pipe. Installation shall be in accordance with Article 509.06 using a method that results in the annulus surrounding the bolt being completely filled with adhesive. The method of drilling shall not result in spalled concrete at the exit face. Epoxy grouted thru bolts shall be snug tightened followed by an additional 1/3 turn on the interior nut at final installation. Cost included with Traversable Pipe Grate.



SECTION A–A

(4" Ø pipe not shown for clarity.)



VIEW B–B

PLAN — SURVEYED / PLOTTED / QUANTITIES CHECKED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / QUANTITIES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY / DATE

FILE NAME = D264D70-sht-Detail-001.dgn

KNIGHT Engineers & Architects

	DESIGNED - DJC	REVISED - 5-09-14
	DRAWN - DJC	REVISED -
	CHECKED - DMS	REVISED -
	DATE - 12/14/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	116
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAVERSABLE PIPE GRATE FOR PARALLEL DRAINAGE STRUCTURE

PIPE GRATE SCHEDULE FOR PARALLEL BOX CULVERTS

(<2 FT COVER)							
BOX SIZE		SLOPE OF END SECTION					
		1:4		1:6		1:10	
SPAN (FT.)	RISE (FT.)	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe
3	2	5 @ 2'-7"	12'-11"	8 @ 2'-7"	20'-8"	12 @ 2'-7"	31'-0"
3	3	7 @ 2'-7"	18'-1"	11 @ 2'-7"	28'-5"	17 @ 2'-7"	43'-11"
4	2	5 @ 3'-7"	17'-11"	8 @ 3'-7"	28'-8"	13 @ 3'-7"	46'-7"
4	3	8 @ 3'-7"	28'-8"	11 @ 3'-7"	39'-5"	18 @ 3'-7"	64'-6"
4	4	10 @ 3'-7"	35'-10"	14 @ 3'-7"	50'-2"	23 @ 3'-7"	82'-5"
5	2	6 @ 4'-7"	27'-6"	8 @ 4'-7"	36'-8"	13 @ 4'-7"	59'-7"
5	3	8 @ 4'-7"	36'-8"	11 @ 4'-7"	50'-5"	18 @ 4'-7"	82'-6"
5	4	10 @ 4'-7"	45'-10"	14 @ 4'-7"	64'-2"	23 @ 4'-7"	105'-5"
5	5	12 @ 4'-7"	55'-0"	17 @ 4'-7"	77'-11"	28 @ 4'-7"	128'-4"
6	2	6 @ 5'-7"	33'-6"	8 @ 5'-7"	44'-8"	13 @ 5'-7"	72'-7"
6	3	8 @ 5'-7"	44'-8"	11 @ 5'-7"	61'-5"	18 @ 5'-7"	100'-6"
6	4	10 @ 5'-7"	55'-10"	14 @ 5'-7"	78'-2"	23 @ 5'-7"	128'-5"
6	5	12 @ 5'-7"	67'-0"	17 @ 5'-7"	94'-11"	28 @ 5'-7"	156'-4"
6	6	14 @ 5'-7"	78'-2"	20 @ 5'-7"	111'-8"	33 @ 5'-7"	184'-3"
7	2	6 @ 6'-7"	39'-6"	8 @ 6'-7"	52'-8"	13 @ 6'-7"	85'-7"
7	3	8 @ 6'-7"	52'-8"	11 @ 6'-7"	72'-5"	18 @ 6'-7"	118'-6"
7	4	10 @ 6'-7"	65'-10"	14 @ 6'-7"	92'-2"	23 @ 6'-7"	151'-5"
7	5	12 @ 6'-7"	79'-0"	17 @ 6'-7"	111'-11"	28 @ 6'-7"	184'-4"
7	6	14 @ 6'-7"	92'-2"	20 @ 6'-7"	131'-8"	33 @ 6'-7"	217'-3"
7	7	16 @ 6'-7"	105'-4"	23 @ 6'-7"	151'-5'	38 @ 6'-7"	250'-2"
8	2	6 @ 7'-7"	45'-6"	8 @ 7'-7"	60'-8"	13 @ 7'-7"	98'-7"
8	3	8 @ 7'-7"	60'-8"	11 @ 7'-7"	83'-5"	18 @ 7'-7"	136'-6"
8	4	10 @ 7'-7"	75'-10"	14 @ 7'-7"	106'-2"	23 @ 7'-7"	174'-5"
8	5	12 @ 7'-7"	91'-0"	17 @ 7'-7"	128'-11"	28 @ 7'-7"	212'-4"
8	6	14 @ 7'-7"	106'-2"	20 @ 7'-7"	151'-8"	33 @ 7'-7"	250'-3"
8	7	16 @ 7'-7"	121'-4"	23 @ 7'-7"	174'-5"	38 @ 7'-7"	288'-2"
8	8	18 @ 7'-7"	136'-6"	26 @ 7'-7"	197'-2"	43 @ 7'-7"	326'-1"
9	2	6 @ 8'-7"	51'-6"	8 @ 8'-7"	68'-8"	13 @ 8'-7"	111'-7"
9	3	8 @ 8'-7"	68'-8"	11 @ 8'-7"	94'-5"	18 @ 8'-7"	154'-6'
9	4	10 @ 8'-7"	85'-10"	14 @ 8'-7"	120'-2"	23 @ 8'-7"	197'-5"
9	5	12 @ 8'-7"	103'-0"	17 @ 8'-7"	145'-11"	28 @ 8'-7"	240'-4"
9	6	14 @ 8'-7"	120'-2"	20 @ 8'-7"	171'-8"	33 @ 8'-7"	283'-3"
9	7	16 @ 8'-7"	137'-4"	23 @ 8'-7"	197'-5"	38 @ 8'-7"	326'-2"
9	8	18 @ 8'-7"	154'-6"	26 @ 8'-7"	223'-2"	43 @ 8'-7"	369'-1"
9	9	20 @ 8'-7"	171'-8"	30 @ 8'-7"	257'-6"	48 @ 8'-7"	412'-0"
10	2	6 @ 9'-7"	57'-6"	9 @ 9'-7"	86'-3"	14 @ 9'-7"	134'-2"
10	3	8 @ 9'-7"	76'-8"	12 @ 9'-7"	115'-0"	19 @ 9'-7"	182'-1"
10	4	10 @ 9'-7"	95'-10"	15 @ 9'-7"	143'-9"	24 @ 9'-7"	230'-0"
10	5	12 @ 9'-7"	115'-0"	18 @ 9'-7"	172'-6"	29 @ 9'-7"	277'-11"
10	6	14 @ 9'-7"	134'-2"	21 @ 9'-7"	201'-3"	34 @ 9'-7"	325'-10"
10	7	16 @ 9'-7"	153'-4"	24 @ 9'-7"	230'-0"	39 @ 9'-7"	373'-9"
10	8	18 @ 9'-7"	172'-6"	27 @ 9'-7"	258'-9"	44 @ 9'-7"	421'-8"
10	9	20 @ 9'-7"	191'-8"	30 @ 9'-7"	287'-5"	49 @ 9'-7"	469'-7"
10	10	22 @ 9'-7"	210'-10"	33 @ 9'-7"	316'-3"	54 @ 9'-7"	517'-6"

PIPE GRATE SCHEDULE FOR PARALLEL BOX CULVERTS

(<2 FT COVER)							
BOX SIZE		SLOPE OF END SECTION					
		1:4		1:6		1:10	
SPAN (FT.)	RISE (FT.)	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe
11	2	6 @ 10'-7"	63'-6"	9 @ 10'-7"	95'-3"	14 @ 10'-7"	148'-2"
11	3	8 @ 10'-7"	84'-8"	12 @ 10'-7"	127'-0"	19 @ 10'-7"	201'-1"
11	4	10 @ 10'-7"	105'-10"	15 @ 10'-7"	158'-9"	24 @ 10'-7"	254'-0"
11	6	14 @ 10'-7"	148'-2"	21 @ 10'-7"	222'-3"	34 @ 10'-7"	359'-10"
11	8	18 @ 10'-7"	190'-6"	27 @ 10'-7"	285'-9"	44 @ 10'-7"	465'-8"
11	10	23 @ 10'-7"	243'-5"	33 @ 10'-7"	349'-3"	54 @ 10'-7"	571'-6"
11	11	25 @ 10'-7"	264'-7"	36 @ 10'-7"	381'-0"	59 @ 10'-7"	624'-5"
12	2	6 @ 11'-7"	69'-6"	9 @ 11'-7"	104'-3"	15 @ 11'-7"	173'-9"
12	3	8 @ 11'-7"	92'-8"	12 @ 11'-7"	139'-0"	20 @ 11'-7"	231'-8"
12	4	10 @ 11'-7"	115'-10"	15 @ 11'-7"	173'-9"	25 @ 11'-7"	289'-7"
12	6	15 @ 11'-7"	173'-9"	21 @ 11'-7"	243'-3"	35 @ 11'-7"	405'-5"
12	8	19 @ 11'-7"	220'-1"	27 @ 11'-7"	312'-9"	45 @ 11'-7"	521'-3"
12	10	23 @ 11'-7"	266'-5"	33 @ 11'-7"	382'-3"	55 @ 11'-7"	637'-1"
12	12	27 @ 11'-7"	312'-9"	39 @ 11'-7"	451'-9"	65 @ 11'-7"	752'-11"

PIPE GRATE SCHEDULE FOR PARALLEL BOX CULVERTS

(>2 FT COVER)							
BOX SIZE		SLOPE OF END SECTION					
		1:4		1:6		1:10	
SPAN (FT.)	RISE (FT.)	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe
3	2	5 @ 2'-7"	12'-11"	7 @ 2'-7"	18'-1"	11 @ 2'-7"	28'-5"
3	3	7 @ 2'-7"	18'-1"	10 @ 2'-7"	25'-10"	16 @ 2'-7"	41'-4"
4	2	5 @ 3'-7"	17'-11"	7 @ 3'-7"	25'-1"	12 @ 3'-7"	43'-0"
4	3	7 @ 3'-7"	25'-1"	10 @ 3'-7"	35'-10"	17 @ 3'-7"	60'-11"
4	4	9 @ 3'-7"	32'-3"	13 @ 3'-7"	46'-7"	22 @ 3'-7"	78'-10"
5	2	5 @ 4'-7"	22'-11"	7 @ 4'-7"	32'-1"	12 @ 4'-7"	55'-0"
5	3	7 @ 4'-7"	32'-1"	11 @ 4'-7"	50'-5"	17 @ 4'-7"	77'-11"
5	4	9 @ 4'-7"	41'-3"	14 @ 4'-7"	64'-2"	22 @ 4'-7"	100'-10"
5	5	11 @ 4'-7"	50'-5"	17 @ 4'-7"	77'-11"	27 @ 4'-7"	123'-9"
6	2	5 @ 5'-7"	27'-11"	8 @ 5'-7"	44'-8"	12 @ 5'-7"	67'-0"
6	3	7 @ 5'-7"	39'-1"	11 @ 5'-7"	61'-5"	17 @ 5'-7"	94'-11"
6	4	10 @ 5'-7"	55'-10"	14 @ 5'-7"	78'-2"	23 @ 5'-7"	128'-5"
6	5	12 @ 5'-7"	67'-0"	17 @ 5'-7"	94'-11"	28 @ 5'-7"	156'-4"
6	6	14 @ 5'-7"	78'-2"	20 @ 5'-7"	111'-8"	33 @ 5'-7"	184'-3"
Follow (<2 FT Cover) table for all other sizes							

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY / DATE

FILE NAME = D264D70-sht-Detail-001.dgn

KNIGHT
Engineers & Architects

DESIGNED	- DJC	REVISED	- 5-09-14
DRAWN	- DJC	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 12/14/2018	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	117
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAVERSABLE PIPE GRATE FOR PARALLEL DRAINAGE STRUCTURE

PIPE GRATE SCHEDULE FOR PARALLEL PIPE CULVERTS 15" THRU 84" DIA.

Pipe I.D.	SLOPE OF END SECTION					
	1:4		1:6		1:10	
	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe
15"	3 @ 0'-11"	2'-9"	4 @ 0'-11"	3'-8"	6 @ 0'-11"	5'-6"
18"	3 @ 1'-1"	3'-3"	5 @ 1'-1"	5'-5"	7 @ 1'-1"	7'-7"
21"	4 @ 1'-5"	5'-8"	5 @ 1'-5"	7'-1"	9 @ 1'-5"	12'-9"
24"	5 @ 1'-7"	7'-11"	6 @ 1'-7"	9'-6"	10 @ 1'-7"	15'-10"
30"	6 @ 2'-1"	12'-6"	8 @ 2'-1"	16'-8"	13 @ 2'-1"	27'-1"
36"	7 @ 2'-7"	18'-1"	10 @ 2'-7"	25'-10"	15 @ 2'-7"	38'-9"
42"	8 @ 3'-1"	24'-8"	11 @ 3'-1"	33'-11"	18 @ 3'-1"	55'-6"
48"	9 @ 3'-7"	32'-3"	13 @ 3'-7"	46'-7"	21 @ 3'-7"	75'-3"
54"	10 @ 4'-1"	40'-10"	14 @ 4'-1"	57'-2"	23 @ 4'-1"	93'-11"
60"	11 @ 4'-7"	50'-5"	15 @ 4'-7"	68'-9"	25 @ 4'-7"	114'-7"
66"	12 @ 5'-1"	61'-0"	17 @ 5'-1"	86'-5"	28 @ 5'-1"	142'-4"
72"	13 @ 5'-7"	72'-7"	18 @ 5'-7"	100'-6"	30 @ 5'-7"	167'-6"
78"	14 @ 6'-1"	85'-2"	20 @ 6'-1"	121'-8"	33 @ 6'-1"	200'-9"
84"	15 @ 6'-7"	98'-9"	21 @ 6'-7"	138'-3"	35 @ 6'-7"	230'-5"

PLAN
SURVEYED
PLOTTED
HORIZ. CHECKED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO. ____
BY
DATE

PROFILE
SURVEYED
PLOTTED
VERT. CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO. ____
BY
DATE

FILE NAME = D264D70-sht-Detail-001.dgn

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED - 5-09-14	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	118
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAVERSABLE PIPE GRATE FOR PARALLEL DRAINAGE STRUCTURE

PIPE GRATE SCHEDULE FOR PARALLEL PIPE ARCH CULVERTS 15" THRU 84" DIA.

SLOPE OF END SECTION						
Pipe I.D.	Table IIA, Corrugation : 2⅔" x ½"					
	1:4		1:6		1:10	
	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe
15"	2 @ 1'-1"	2'-2"	3 @ 1'-1"	3'-3"	5 @ 1'-1"	5'-5"
18"	3 @ 1'-5"	4'-3"	4 @ 1'-5"	5'-8"	6 @ 1-5"	8'-6"
21"	3 @ 1'-7"	4'-9"	5 @ 1'-7"	7'-11"	7 @ 1'-7"	11'-1"
24"	4 @ 1'-11"	7'-8"	5 @ 1'-11"	9'-7"	8 @ 1'-11"	15'-4"
30"	4 @ 2'-7"	10'-4"	6 @ 2'-7"	15'-6"	10 @ 2'-7"	25'-10"
36"	5 @ 3'-1"	15'-5"	7 @ 3'-1"	21'-7"	12 @ 3'-1"	37'-0"
42"	6 @ 3'-9"	22'-6"	9 @ 3'-9"	33'-9"	14 @ 3'-9"	52'-6"
48"	7 @ 4'-5"	30'-11"	10 @ 4'-5"	44'-2"	16 @ 4'-5"	70'-8"
54"	8 @ 4'-11"	39'-4"	11 @ 4'-11"	54'-1"	18 @ 4'-11"	88'-6"
60"	8 @ 5'-7"	44'-8"	12 @ 5'-7"	67'-0"	20 @ 5'-7"	111'-8"
66"	9 @ 6'-1"	54'-9"	13 @ 6'-1"	79'-1"	22 @ 6'-1"	133'-10"
72"	10 @ 6'-7"	65'-10"	15 @ 6'-7"	98'-9"	24 @ 6'-7"	158'-0"
78"	-	-	-	-	-	-
84"	-	-	-	-	-	-

PIPE GRATE SCHEDULE FOR PARALLEL PIPE ARCH CULVERTS 15" THRU 84" DIA.

SLOPE OF END SECTION						
Pipe I.D.	Table IIA, Corrugation : 3" x 1"					
	1:4		1:6		1:10	
	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe
15"	-	-	-	-	-	-
18"	-	-	-	-	-	-
21"	-	-	-	-	-	-
24"	-	-	-	-	-	-
30"	-	-	-	-	-	-
36"	6 @ 2'-11"	17'-6"	8 @ 2'-11"	23'-4"	13 @ 2'-11"	37'-11"
42"	7 @ 3'-5"	23'-11"	10 @ 3'-5"	34'-2"	15 @ 3'-5"	51'-3"
48"	8 @ 4'-1"	32'-8"	11 @ 4'-1"	44'-11"	18 @ 4'-1"	73'-6"
54"	9 @ 4'-7"	41'-3"	12 @ 4'-7"	55'-0"	20 @ 4'-7"	91'-10"
60"	9 @ 5'-1"	45'-9"	14 @ 5'-1"	71'-2"	22 @ 5'-1"	111'-10"
66"	10 @ 5'-9"	57'-6"	15 @ 5'-9"	86'-3"	24 @ 5'-9"	138'-0"
72"	11 @ 6'-5"	70'-7"	16 @ 6'-5"	102'-8"	26 @ 6'-5"	166'-10"
78"	12 @ 6'-11"	83'-0"	17 @ 6'-11"	117'-7"	28 @ 6'-11"	193'-8"
84"	12 @ 7'-7"	91'-0"	18 @ 7'-7"	136'-6"	30 @ 7'-7"	227'-6"

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO. ____, BY, DATE

PROFILE — SURVEYED, PLOTTED, PROFILE CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO. ____, BY, DATE

FILE NAME = D264070-sht-Detail-001.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED - 5-09-14	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	119
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAVERSABLE PIPE GRATE FOR PARALLEL DRAINAGE STRUCTURE

PIPE GRATE SCHEDULE FOR PARALLEL ELLIPTICAL PIPE CULVERTS 15" THRU 72" DIA.

Pipe I.D.	SLOPE OF END SECTION					
	1:4		1:6		1:10	
	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe	Pipes No. / Length	Total Length of Pipe
15''	3 @ 2'-7''	7'-9''	5 @ 2'-7''	12'-11''	7 @ 2'-7''	18'-1''
18''	3 @ 2'-7''	7'-9''	5 @ 2'-7''	12'-11''	7 @ 2'-7''	18'-1''
21''	5 @ 3'-3''	16'-3''	7 @ 3'-3''	22'-9''	12 @ 3'-3''	39'-0''
24''	5 @ 3'-3''	16'-3''	7 @ 3'-3''	22'-9''	12 @ 3'-3''	39'-0''
27''	6 @ 3'-7''	21'-6''	8 @ 3'-7''	28'-8''	13 @ 3'-7''	46'-7''
30''	6 @ 3'-11''	23'-6''	9 @ 3'-11''	35'-3''	14 @ 3'-11''	54'-10''
36''	7 @ 4'-7''	32'-1''	10 @ 4'-7''	45'-10''	16 @ 4'-7''	73'-4''
42''	8 @ 5'-5''	43'-4''	11 @ 5'-5''	59'-7''	18 @ 5'-5''	97'-6''
48''	9 @ 6'-1''	54'-9''	13 @ 6'-1''	79'-1''	20 @ 6'-1''	121'-8''
54''	10 @ 6'-9''	67'-6''	14 @ 6'-9''	94'-6''	23 @ 6'-9''	155'-3''
60''	11 @ 7'-7''	83'-5''	15 @ 7'-7''	113'-9''	25 @ 7'-7''	189'-7''
66''	11 @ 8'-3''	90'-9''	17 @ 8'-3''	140'-3''	27 @ 8'-3''	222'-9''
72''	12 @ 8'-11''	107'-0''	18 @ 8'-11''	160'-6''	30 @ 8'-11''	267'-6''

PLAN
SURVEYED
PLOTTED
HORIZ. CHECKED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO. ____
BY
DATE

PROFILE
SURVEYED
PLOTTED
VERT. CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO. ____
BY
DATE

FILE NAME = D264D70-sht-Detail-001.dgn

KNIGHT
Engineers & Architects

DESIGNED	- DJC	REVISED - 5-09-14
DRAWN	- DJC	REVISED -
CHECKED	- DMS	REVISED -
DATE	- 12/14/2018	REVISED -

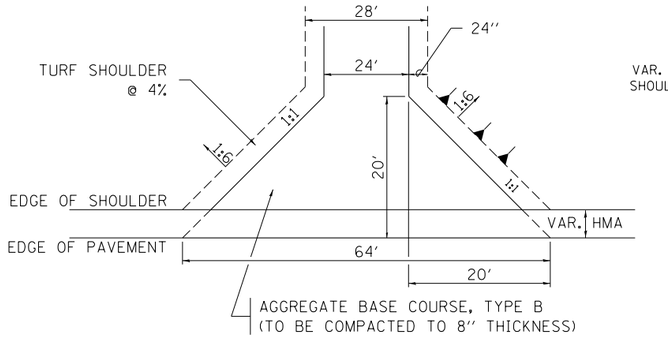
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

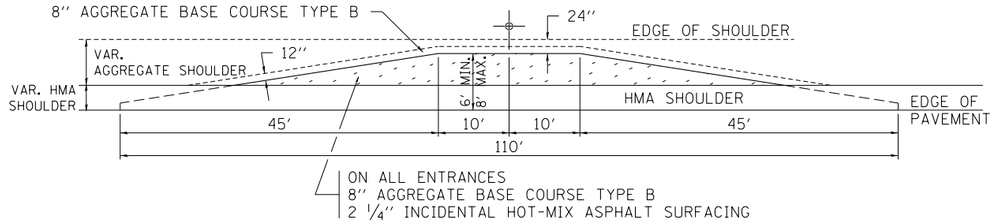
SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	120
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HOT–MIX ASPHALT APPROACHES AND MAILBOX RETURNS



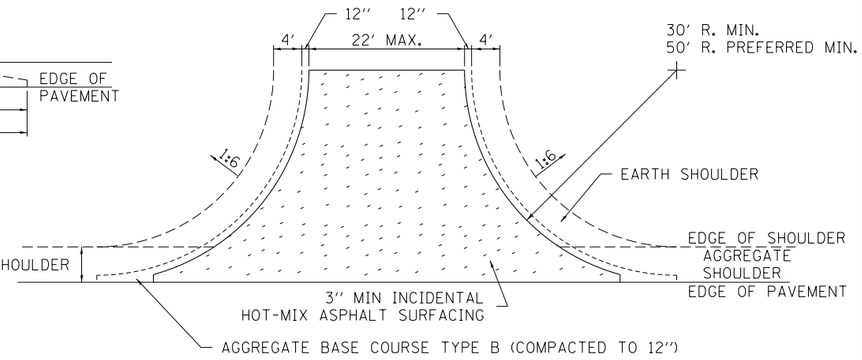
FIELD ENTRANCE



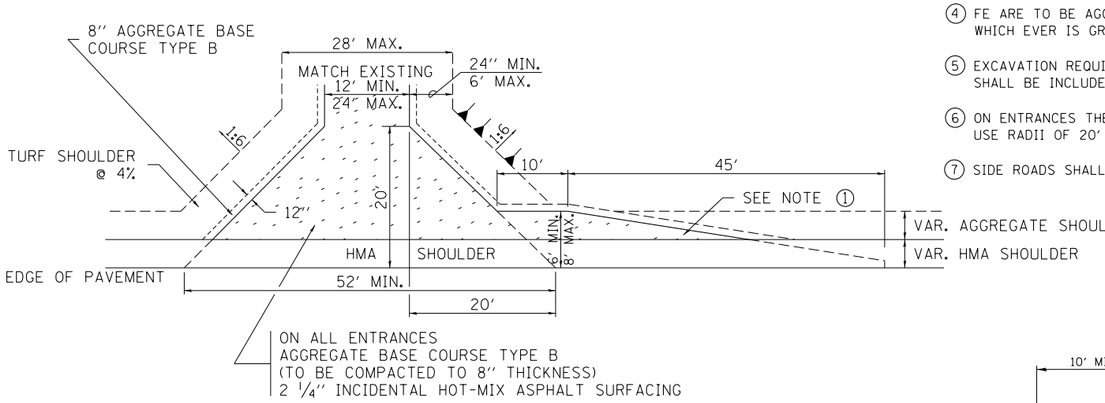
MAILBOX TURNOUT

NOTE

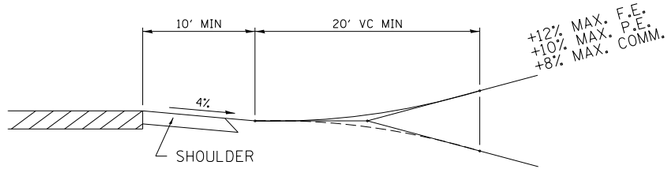
1. TURNOUTS ARE TO BE CONSTRUCTED ON THE APPROACH SIDE OF ALL PE & CE REGARDLESS IF A MAILBOX IS PRESENT.
2. ALL PE & CE ARE TO BE SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
3. ALL PE & CE TO BE CONSTRUCTED WITH AN 8″ AGGREGATE BASE COURSE, TYPE B AND WITH A 2 1/4″ INCIDENTAL HOT-MIX ASPHALT SURFACING, UNLESS OTHERWISE NOTED.
4. FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN, WHICH EVER IS GREATEST.
5. EXCAVATION REQUIRED FOR PLACEMENT OF AGGREGATE BASE COURSE SHALL BE INCLUDED IN THE COST OF THE AGGREGATE BASE COURSE.
6. ON ENTRANCES THE CONTRACTOR HAS THE OPTION OF USING RADIUS RETURNS. USE RADII OF 20′ TO 60′.
7. SIDE ROADS SHALL HAVE 3″ INCIDENTAL PLACED IN TWO 1½″ LIFTS.



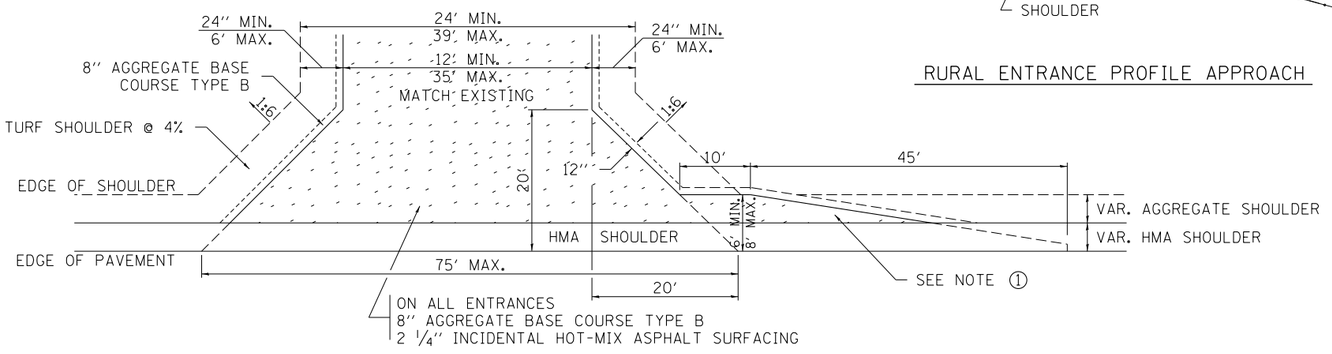
SIDE ROAD RETURN/EARTH SHOULDER



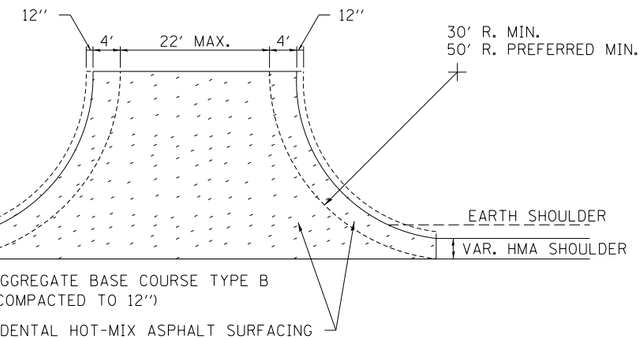
PRIVATE ENTRANCE



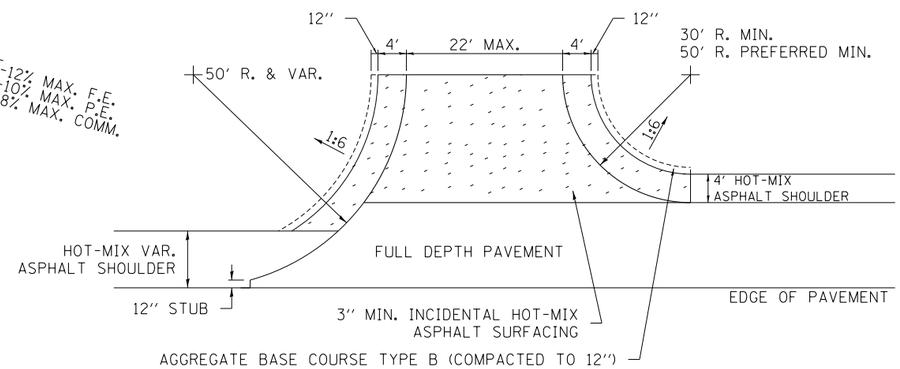
RURAL ENTRANCE PROFILE APPROACH



COMMERCIAL ENTRANCE



SIDE ROAD RETURN/HMA SHOULDER



SIDE ROAD RETURN WITH RIGHT TURN LANE

PLAN — DATE | BY | SURVEYED | PLOTTED | DESIGN CHECKED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO.

PROFILE — DATE | BY | SURVEYED | PLOTTED | DESIGN CHECKED | B.M. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO.

FILE NAME = D264070-sht-Detail-001.dgn

KNIGHT
Engineers & Architects

	DESIGNED - DJC	REVISED -	6-27-14
	DRAWN - DJC	REVISED -	8-27-13
=	CHECKED - DMS	REVISED -	12-07-10
=	DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

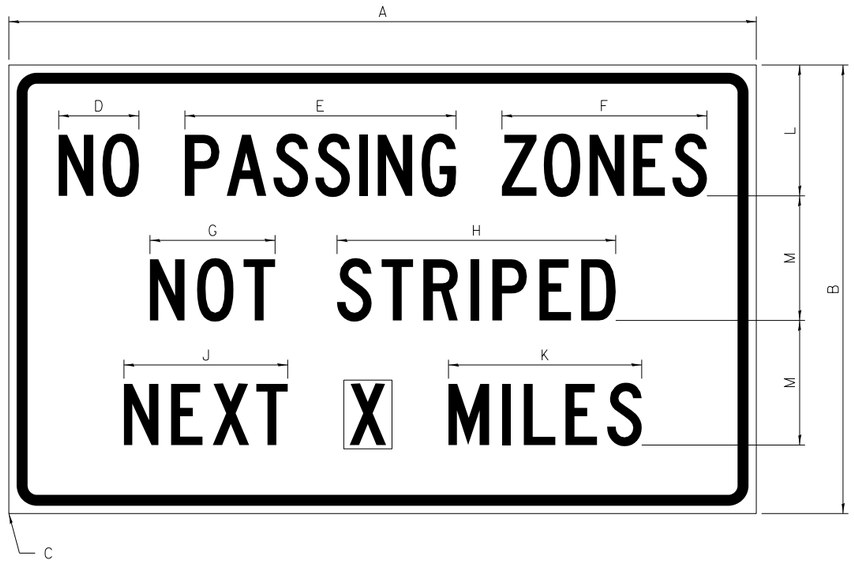
SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	121
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HOT–MIX ASPHALT APPROACHES AND MAILBOX RETURNS 20.1

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD G20–I100



COLOR	LEGEND AND BORDER	BLACK
	BACKGROUND	ORANGE
		NON-REFLECTORIZED
		REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
60 x 36	60.00	36.00	2.25	6.4	21.80	16.40	10.00	22.40	13.20	15.50	10.50	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
60 x 36	5C	5C	5C	0.625	0.875

Sign not to scale

GENERAL NOTES

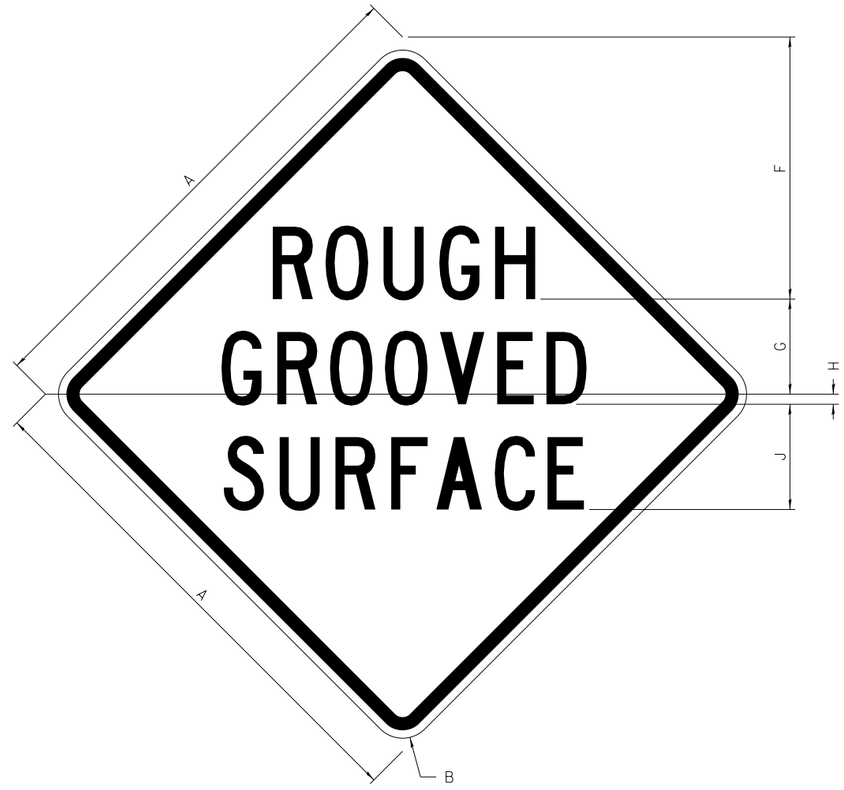
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

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.

ILLINOIS STANDARD W8–I107



COLOR	LEGEND AND BORDER	BLACK
	BACKGROUND	ORANGE
		NON-REFLECTORIZED
		REFLECTORIZED

SIGN SIZE	DIMENSIONS								
	A	B	C	D	E	F	G	H	J
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
48 x 48	7C	7C	7C	1.250	0.750

Sign not to scale

PLAN — SURVEYED, PLOTTED, DRAWN, CHECKED, QUANT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE — SURVEYED, PLOTTED, DRAWN, CHECKED, BM. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = D264D70-sht-Detail-001.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED - 3-02-16	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

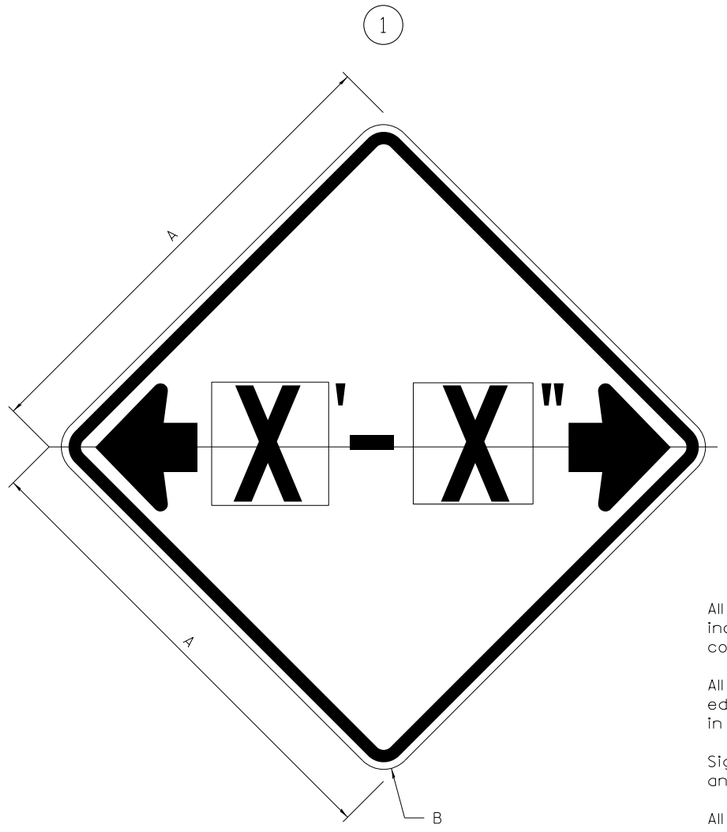
REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	122
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD W12–I102



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

SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

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

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.

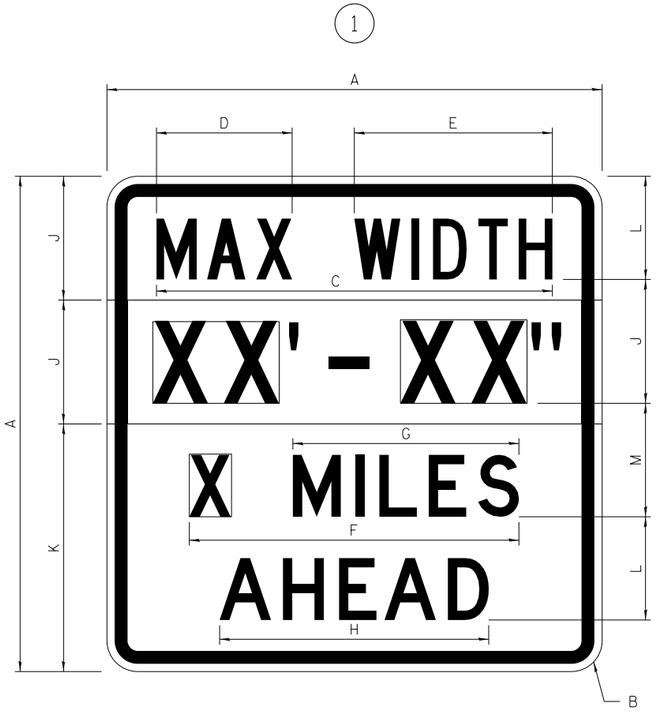
All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

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

All dimensions are in inches unless otherwise noted.

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

ILLINOIS STANDARD W12–I103



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

PLAN — SURVEYED / PLOTTED / QUANTITIES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / QUANTITIES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. / BY / DATE

FILE NAME = D2640?0-sht-Detail-001.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED - 3-02-16	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

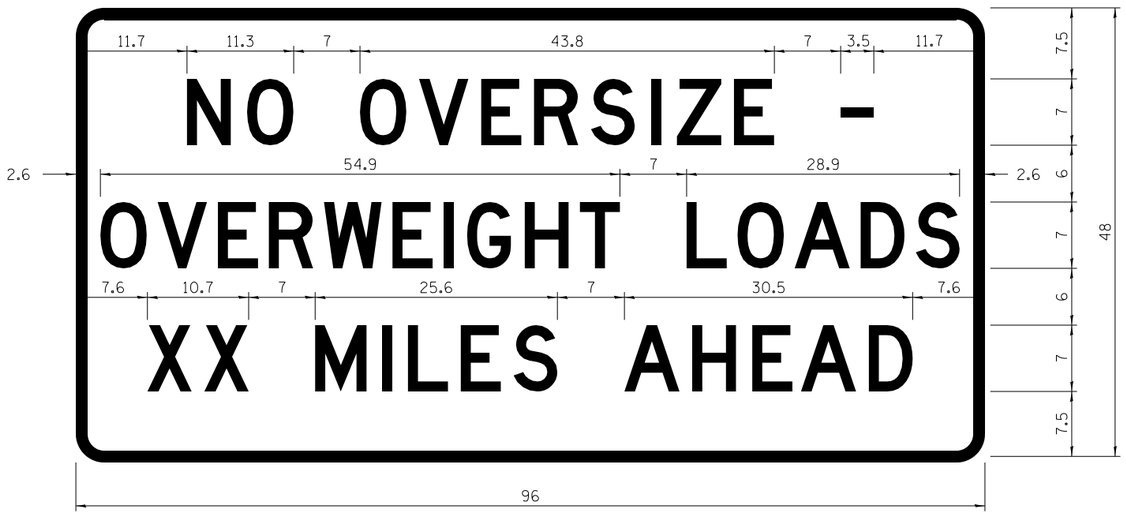
REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	123
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

WORK ZONE SIGN DETAILS

ROAD CLOSED TO OVERSIZED LOADS



COLOR LEGEND AND BORDER BLACK NON-REFLECTORIZED
BACKGROUND ORANGE 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.

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

STOP LINE SIGN FOR TEMPORARY SIGNALS



COLOR LEGEND AND BORDER BLACK NON-REFLECTORIZED
BACKGROUND WHITE REFLECTORIZED

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

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.

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = D264D70-sht-Detail-001.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	3-02-16
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

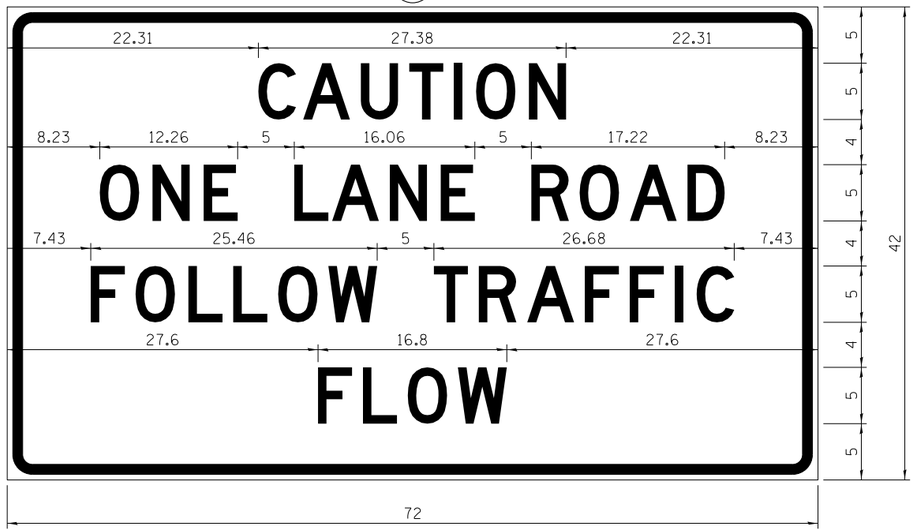
REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	124
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

WORK ZONE SIGN DETAILS

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS (2)



COLOR	LEGEND AND BORDER	BLACK	NON-REFLECTORIZED
	BACKGROUND	ORANGE	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 3.36	0.62	A 4.18	0.94	U 3.36	0.94	T 3.04	0.94	I 0.78	1.17	O 3.52	1.17	N 3.36	22.31

8.23	O 3.51	1.17	N 3.36	1.18	E 3.04

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

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

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

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

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

Sign not to scale

GENERAL NOTES

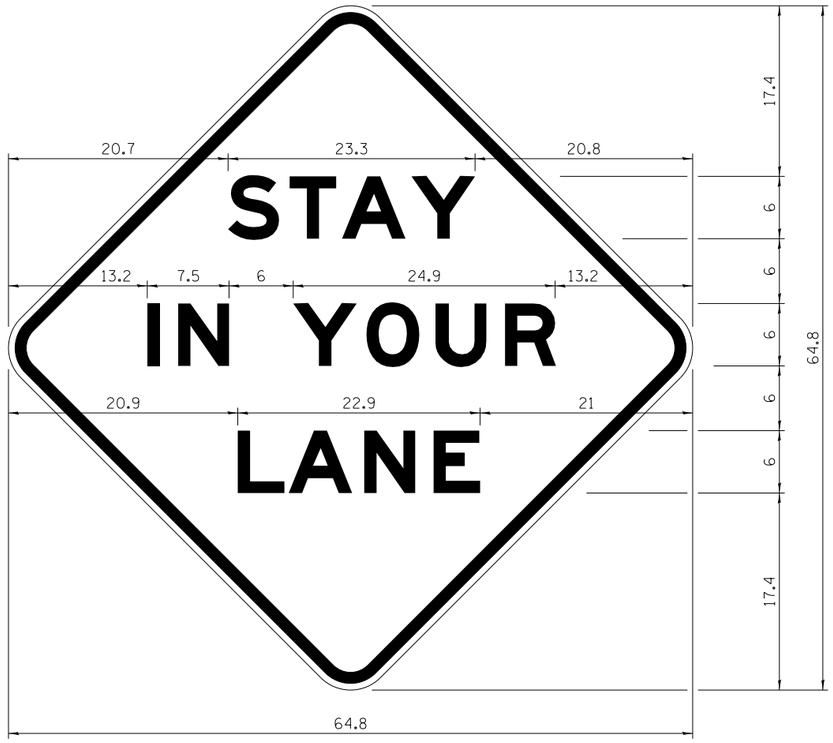
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

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	BLACK	NON-REFLECTORIZED
	BACKGROUND	ORANGE	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 20.7	T 26.8	A 31.6	Y 38.0

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

L 20.9	A 25.8	N 33.1	E 39.4

Sign not to scale

PLAN: SURVEYED, PLOTTED, DRAWN, CHECKED, QUANTITY CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, DRAWN, CHECKED, H.W., B.M., NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = D264D70-sht-Detail-001.dgn

KNIGHT Engineers & Architects

	DESIGNED - DJC	REVISED -	3-02-16
	DRAWN - DJC	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 12/14/2018	REVISED -	

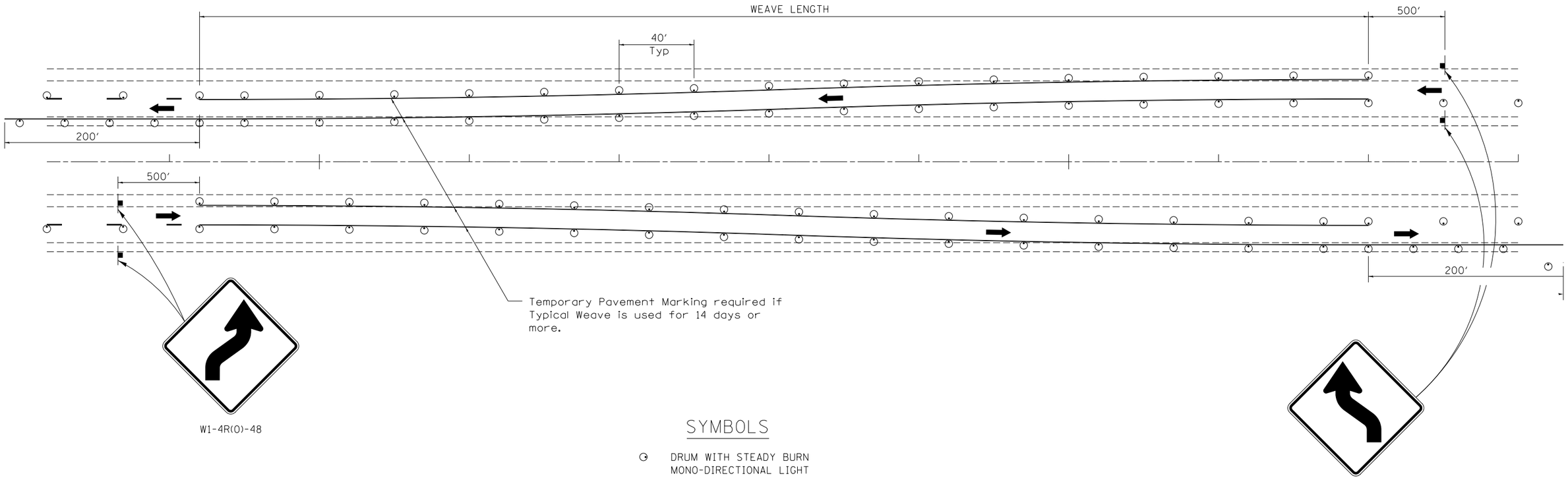
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	125
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC CONTROL TYPICAL WEAVE



W1-4R(0)-48

W1-4L(0)-48

SYMBOLS

DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT

SIGN

STANDARD WEAVE CONDITIONS FOR DIFFERENT SPEED LIMITS

POSTED SPEED LIMIT	WEAVE LENGTH
65 MPH OR HIGHER	780 FT.
55 MPH	660 FT.
45 MPH	540 FT.

GENERAL NOTES:

USE ON LONG 4-LANE PROJECTS WHERE THE CONTRACTOR MAY CHANGE A PORTION OF THE WORK TO THE OPPOSITE LANE.

USE WHERE THE PROJECT IS ADJACENT TO ANOTHER AND THE CONTRACTOR COULD BE WORKING ON DIFFERENT LANES.

TEMPORARY PAVEMENT MARKING SHALL BE USED WHEN TYPICAL WEAVE IS USED FOR 14 DAYS OR MORE.

TRAFFIC CONTROL TYPICAL WEAVE SHALL BE INCLUDED IN THE COST OF THE SPECIFIC TRAFFIC CONTROL STANDARDS OF ITEMS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

PLAN: SURVEYED, PLOTTED, DRAWN, CHECKED, QUANT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO.

PROFILE: SURVEYED, PLOTTED, DRAWN, CHECKED, BM. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO.

BY | DATE

FILE NAME = D264070-sht-Detail-001.dgn

KNIGHT Engineers & Architects

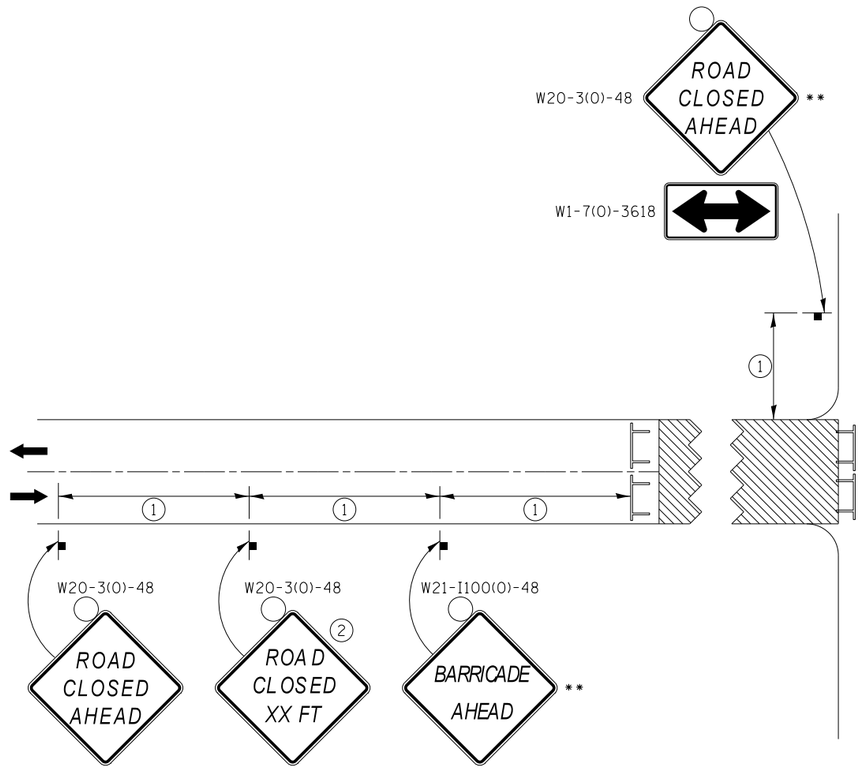
DESIGNED - DJC	REVISED - 1-05-16	
DRAWN - DJC	REVISED - 6-27-14	
CHECKED - DMS	REVISED - 8-27-13	
DATE - 12/14/2018	REVISED - 10-17-11	

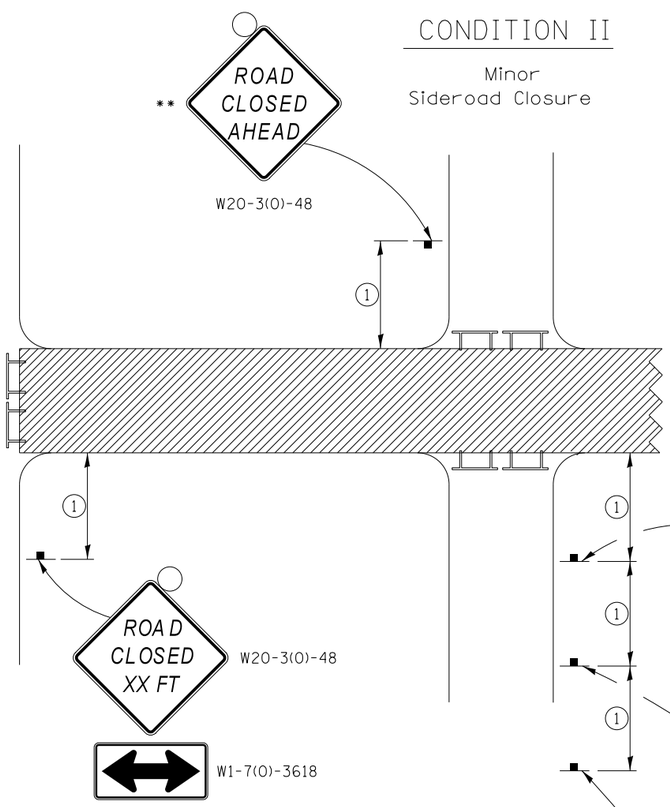
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

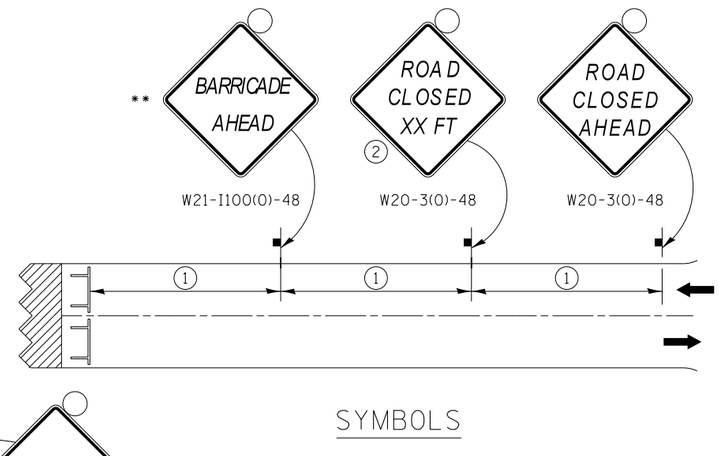
SHEET NO. OF SHEETS STA. TO STA.

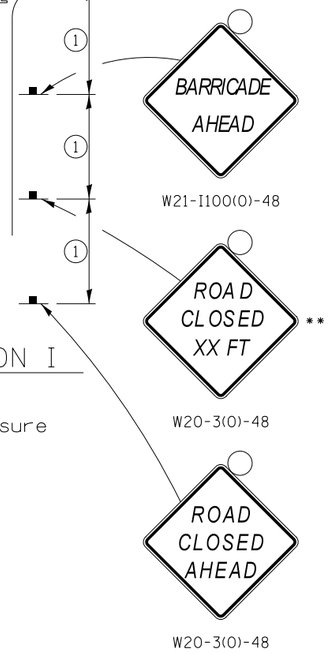
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	126
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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.

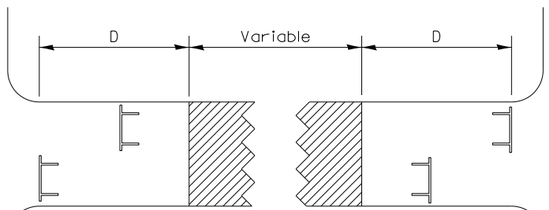
① SIGN SPACING TABLE

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

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = D264070-sht-Detail-001.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	8-03-17
DRAWN - DJC	REVISED -	1-05-16
CHECKED - DMS	REVISED -	8-27-13
DATE - 12/14/2018	REVISED -	10-17-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

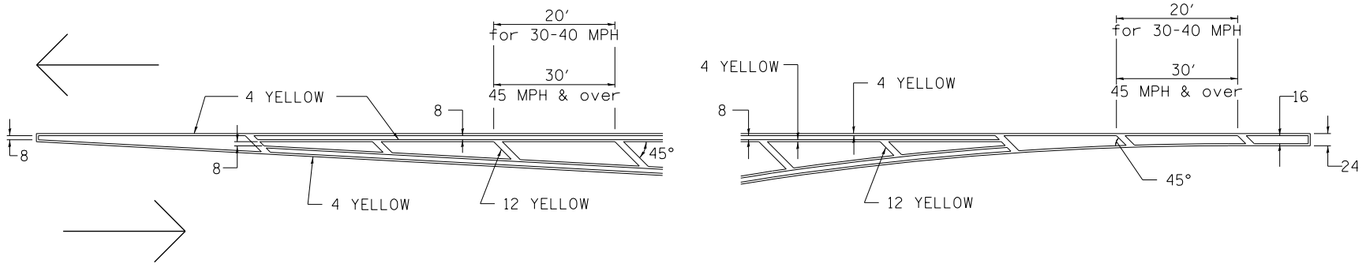
REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS STA. TO STA.

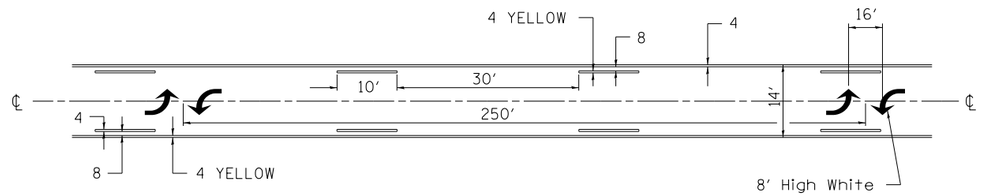
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	127
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

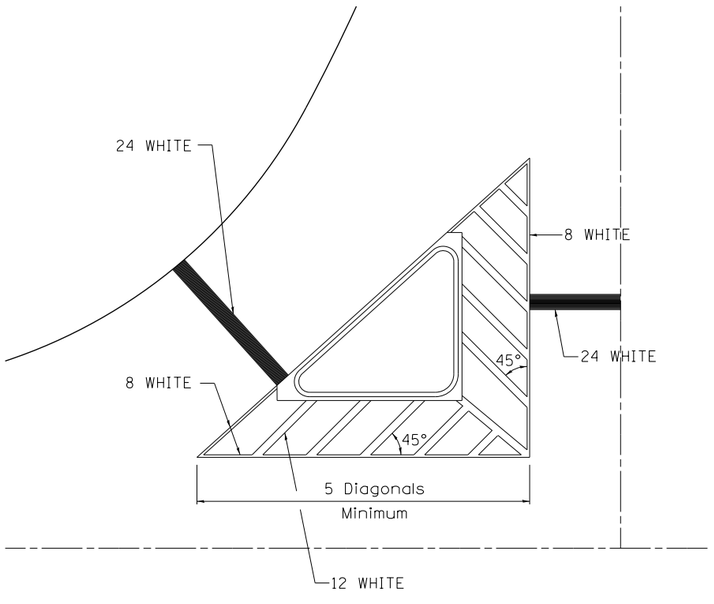


MEDIAN PAVEMENT MARKING



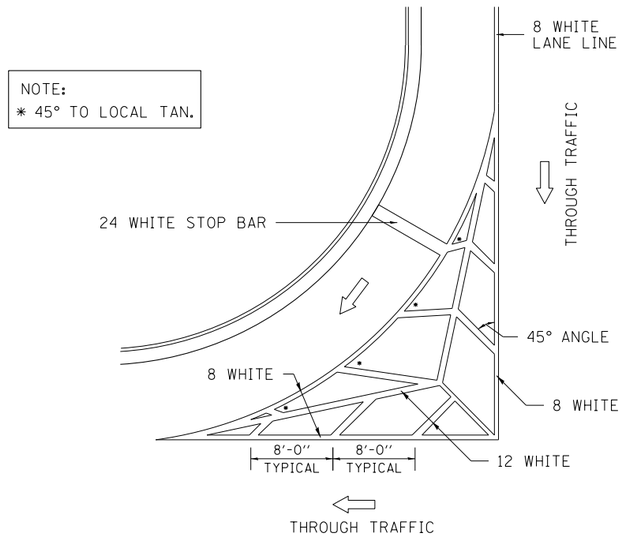
** ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



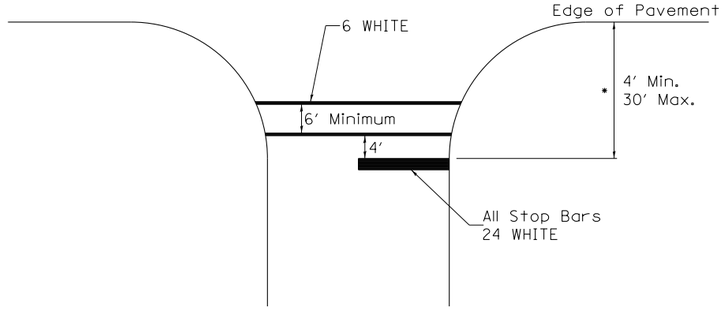
TYPICAL MARKING FOR PAINTED ISLANDS

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.

PLAN
SURVEYED
PLOTTED
DRAWN
CHECKED
NOTE BOOK
NO.
BY
DATE
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME

PROFILE
SURVEYED
PLOTTED
DRAWN
CHECKED
NOTE BOOK
NO.
BY
DATE
BASES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD

FILE NAME = D264D70-sht-Detail-001.dgn

KNIGHT
Engineers & Architects

	DESIGNED - DJC	REVISED -	6-27-14
	DRAWN - DJC	REVISED -	3-05-12
	CHECKED - DMS	REVISED -	
	DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

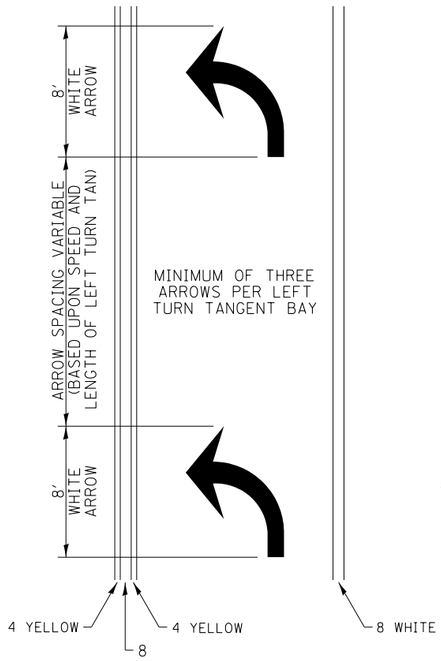
REGION 2 / DISTRICT 2 STANDARD

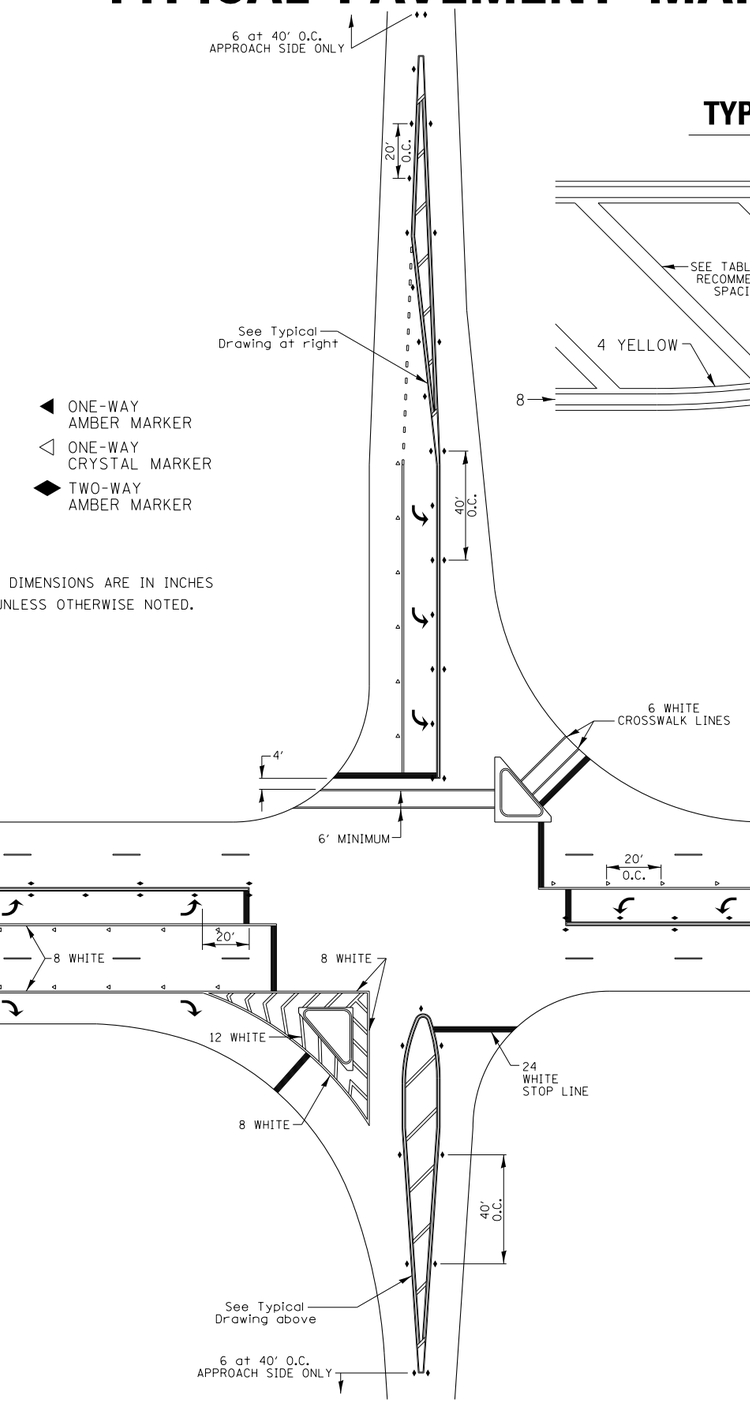
SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	128
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

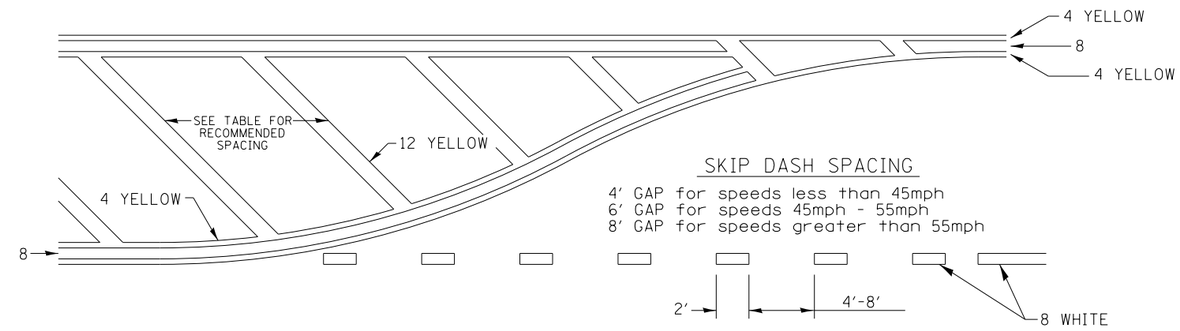
TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT





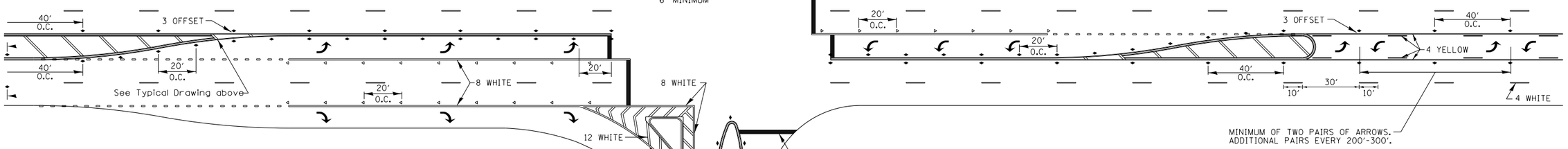
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



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.



PLAN: SURVEYED, PLOTTED, DRAWN, CHECKED, ALIGNMENT CHECKED, R.O.W. CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, DRAWN, CHECKED, B.M. NOTED, STRUCTURE NO., TAINS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = D264D70-sht-Detail-001.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED - 6-27-14	
DRAWN - DJC	REVISED - 3-05-12	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

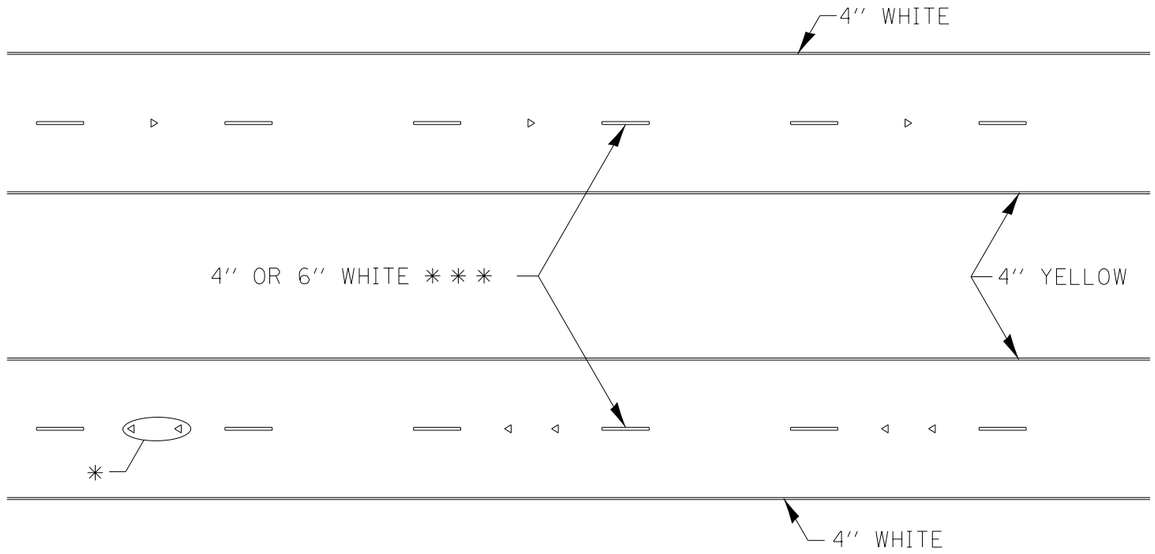
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS STA. TO STA.

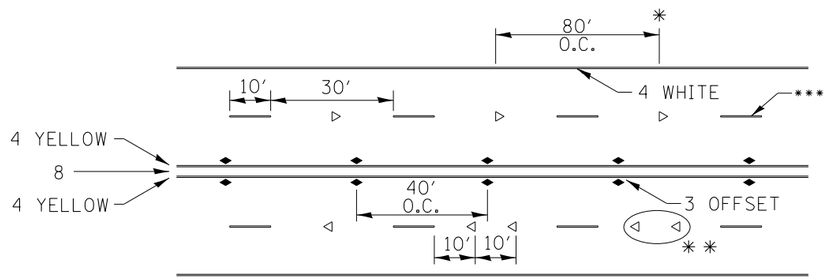
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	129
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS



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

MULTI–LANE / DIVIDED



SYMBOLS

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

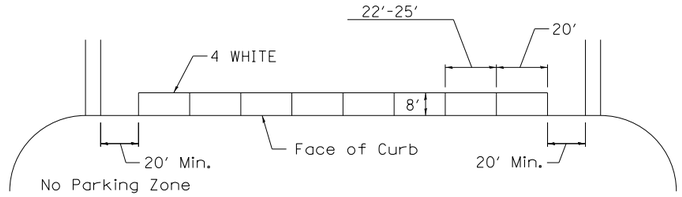
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

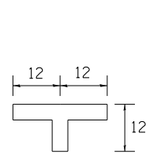
*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4'' LINE. SPEED LIMIT 40 MPH AND OVER USE 6'' LINE.

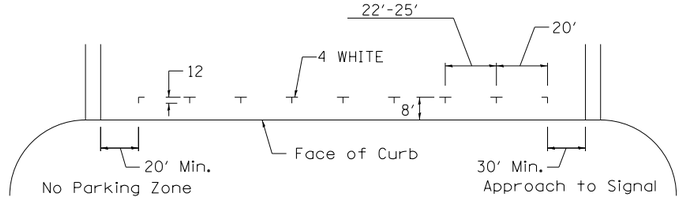
MULTI–LANE / UNDIVIDED & ONE WAY

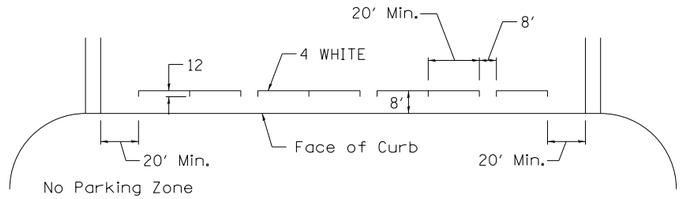
(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS DETAIL NOT HIGHWAY STANDARD 781001)

TYPICAL PARKING SPACING

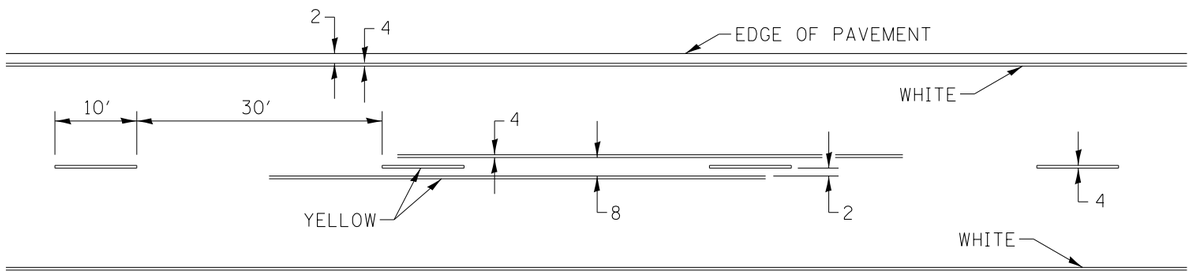








TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



KNIGHT Engineers & Architects	DESIGNED - DJC	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - DJC	REVISED - 8-27-13	REGION 2 / DISTRICT 2 STANDARD
	CHECKED - DMS	REVISED - 11-28-12	SHEET NO. OF SHEETS STA. TO STA.
	DATE - 12/14/2018	REVISED -	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	130
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN: SURVEYED, PLOTTED, QUANTITIES CHECKED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

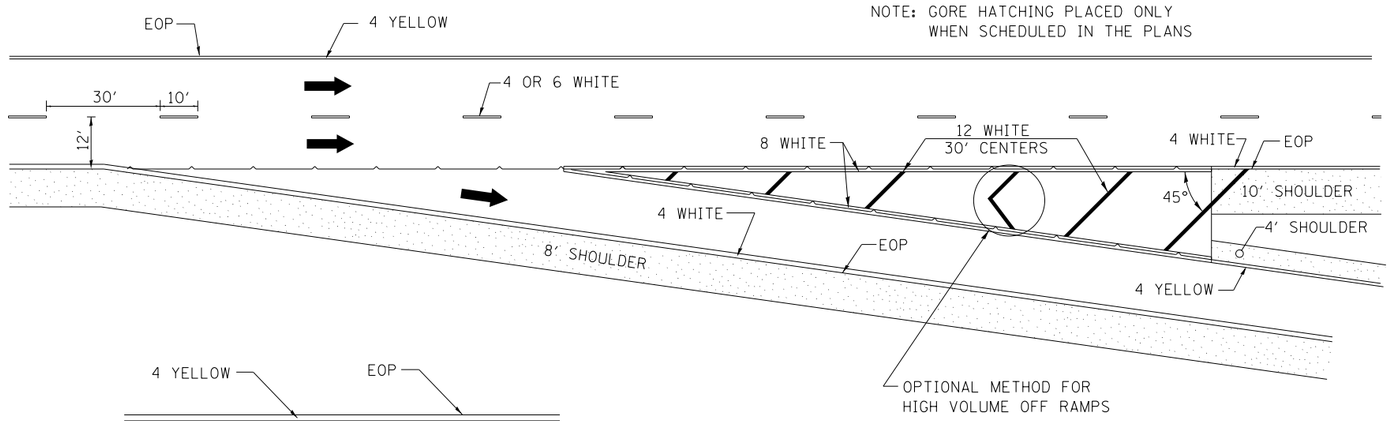
PROFILE: SURVEYED, PLOTTED, QUANTITIES CHECKED, B.M. NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = D264D70-sht-Detail-001.dgn

PAINTING DETAILS

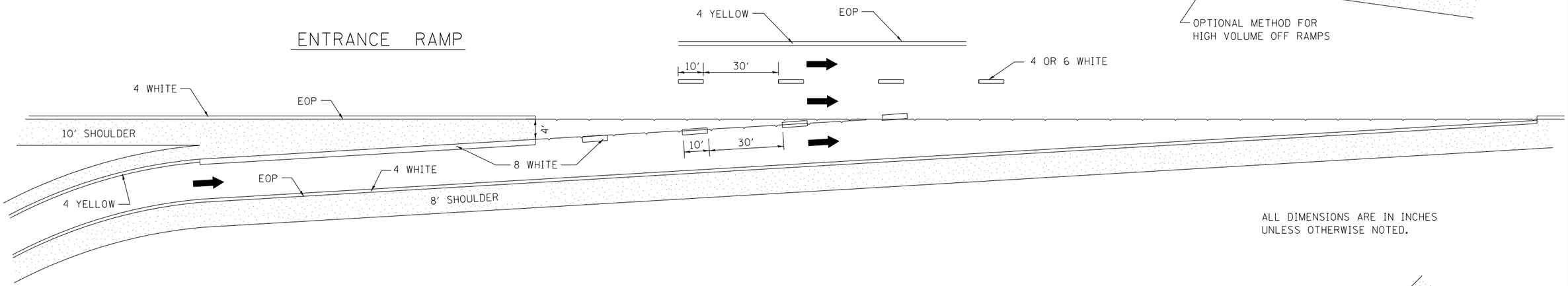
CENTERLINE SKIP DASH PAVEMENT MARKING WIDTH SHALL BE 4'' WHEN THE POSTED SPEED LIMIT IS UNDER 40 MPH AND 6'' WHEN THE POSTED SPEED LIMIT IS 40 MPH AND OVER.

EXIT RAMP



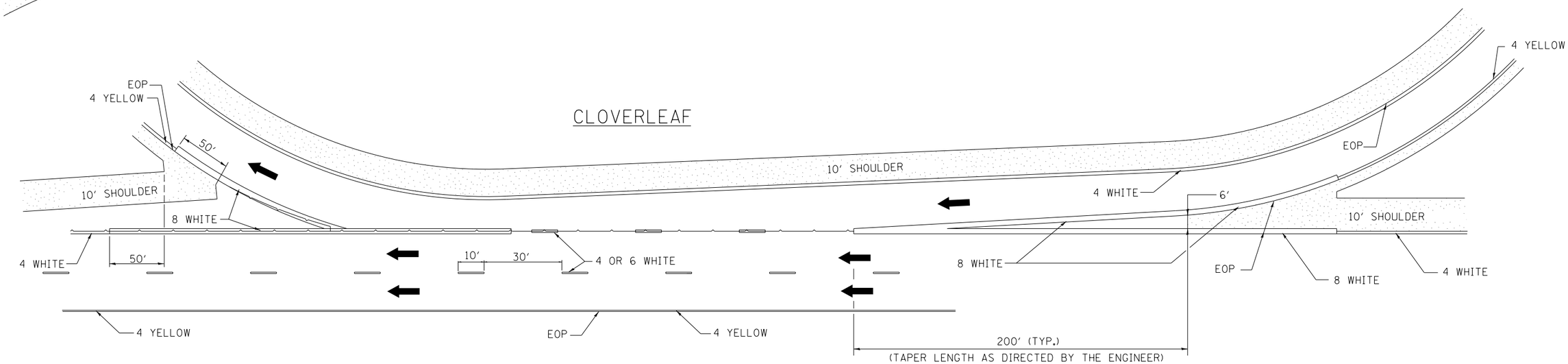
NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN THE PLANS

ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

CLOVERLEAF



PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, CROSS SECTIONS CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME = D264D70-sht-Detail-001.dgn

KNIGHT Engineers & Architects

	DESIGNED - DJC	REVISED -	8-27-13
	DRAWN - DJC	REVISED -	10-18-11
	CHECKED - DMS	REVISED -	
	DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

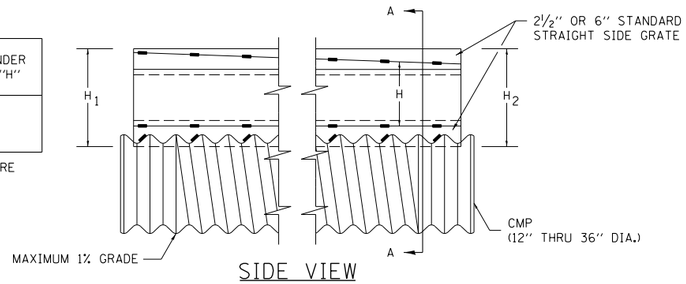
SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	131
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SLOTTED DRAIN PIPE

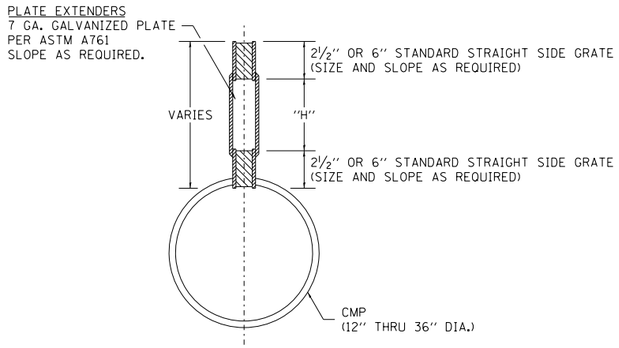
LOADING CONDITION	MAX. EXTENDER HEIGHT - "H"
H20/H25 • 750 PSI CONCRETE	19"

• 125 PSI TIRE PRESSURE



SIDE VIEW

DETAIL WITH VARIABLE HEIGHT GRATE



SECTION A-A

GENERAL

Class SI Concrete shall be used throughout.
This specification covers Slottted Drain used for the removal of water as shown on the plans.
The Slotted Drain shall be Corrugated Pipe Culvert with Integral Slotted Drains.
Before placing the concrete adjacent to the pipe, the slot shall be covered by either thin, flat metal sheeting or by a board notched to fit over the grate bars. This covering must fit closely in the slot to prevent entry of concrete into the pipe. Paving over the slotted drain will then be one continuous operation over the protected drain. The protection for the drain slot shall then be removed. The pipe shall drain into the side of the inlet. The opening where the slot is removed shall be covered to prevent concrete from entering the pipe.
The Corrugated Steel Pipe used in the Slotted Drain shall meet the requirements of AASHTO M36/ASTM A760.
The CMP shall be ALUMINIZED STEEL Type 2.
The diameter shall be as shown on the plans.
Steel grating shall meet the galvanizing requirements of AASHTO M111.
This work will be paid for at the contract unit price per foot for SLOTTED DRAIN of the pipe diameter specified WITH VARIABLE SLOT,or SLOTTED DRAIN, of the pipe diameter specified, WITH 6" SLOT, and shall include concrete and grating for depth specified on plans.
Use approved end cap to prevent concrete entry into the pipe during gutter construction on the upstream end of the pipe.

CONNECTIONS

The Corrugated Steel Pipe shall have a minimum of two rerolled annular ends.
The Slotted Drain bands shall be modified HUGGER Bands to secure the pipe and prevent infiltration of the backfill.
When the Slotted Drain is banded together, the adjacent grates shall have a maximum 3" gap.

GRATES

The grates shall be manufactured from ASTM A670, Grade 36 steel. The spacers and bearing bars (sides) shall be 3/16 " material ±0.008".
The spacers shall be on 6" centers and welded on both sides to each bearing bar (sides) with four (4) 1- 1/4 " long 3/16 " fillet welds on each side of the bearing bar.
The plate extender shall be 7 gage steel meeting ASTM A761.
The engineer may call for tensile strength tests on the grate if the grate is not in compliance with the above spacer specifications. If tensile strength tests are called for, minimum results for an in-place spacer pulled perpendicular to the bearing bar shall be:
T= 12,000 pounds for 2- 1/2 " grate
T= 15,000 pounds for 6" grate

GALVANIZING

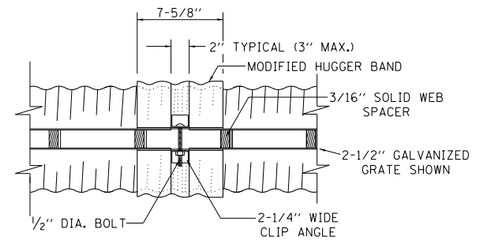
The grate and plate extenders shall be galvanized in accordance with ASTM A123 except with a 2 oz. galvanized coating.

GRATE ATTACHED TO CSP

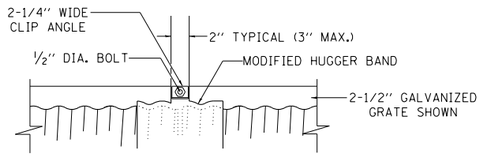
The grate shall be fillet welded with a minimum weld 1" long to the CSP on each side of the grate at every other corrugation.

TOLERANCES - FINISHED SLOTTED DRAIN - 20' LENGTHS

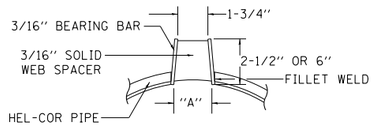
Vertical Bow= ± 3/8 "
Horizontal Bow= ± 5/8 "
Twist= ± 1/2 "



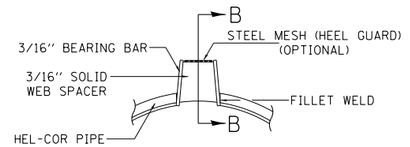
TOP VIEW



SIDE VIEW



SECTION A-A
STANDARD DETAIL



SECTION A-A
DETAIL WITH MESH

(TRAPEZOIDAL GALVANIZED GRATE SHOWN)

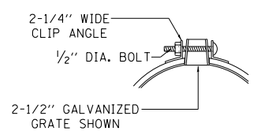
STANDARD SIZES						
GAGE OF PIPE	DIAMETER OF PIPE					
	12"	15"	18"	24"	30"	36"
16	X	X	X	X	X	X
14	X	X	X	X	X	X
12	N.A.	N.A.	N.A.	N.A.	X	X

GRATE TYPE		"A"
VERT	2-1/2"	1-3/4"
VERT	6"	1-3/4"
TRAP	2-1/2"	2-1/4"
TRAP	6"	3"

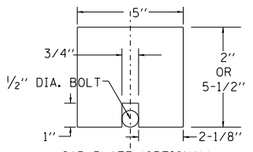
VERT = VERTICAL
TRAP = TRAPIZOIDAL

SLOTTED DRAIN NOTES

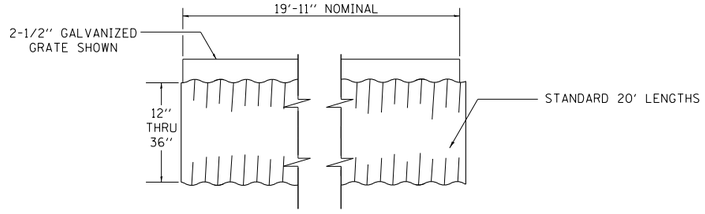
1. GRATING IS AVAILABLE IN DEPTHS OF 2-1/2" AND 6".
2. VERTICAL GRATING (STRAIGHT SIDES) WITH VERTICAL SPACERS IS ALSO AVAILABLE.
3. FOR 6" VERTICAL & TRAPIZOIDAL REQUIREMENTS, THE SLOTTED DRAIN BAND MAY BE FURNISHED WITH THE 4" TECHCO BAND ANGLE.
4. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
5. DIMENSIONS FOR H_1 AND H_2 AS REQUIRED.
6. H_1 AND H_2 MEASURED FROM TOP OF GRATE TO BOTTOM OF GRATE.



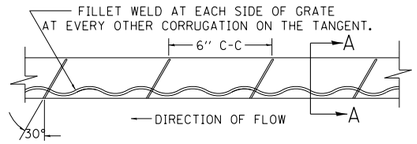
END VIEW



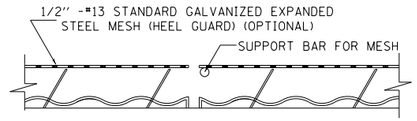
GAP PLATE (OPTIONAL)
MAY BE PLACED DIRECTLY OVER BAND BOLT TO PROVIDE CONTINUOUS FORM FOR GROUTING.



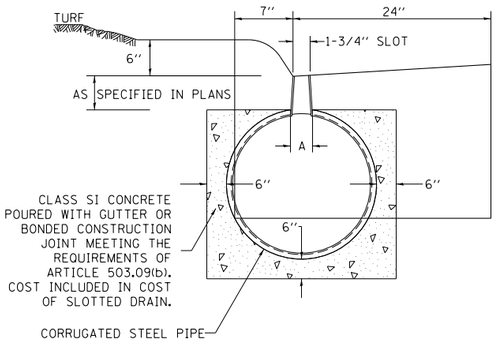
TYPICAL PIPE SECTION



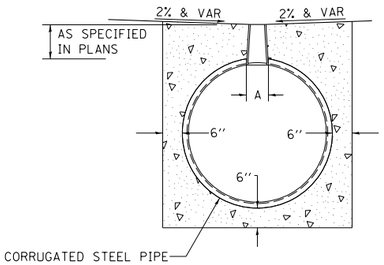
GRATE WELDING DETAIL



SECTION B-B



DETAIL FOR CURB & GUTTER



DETAIL FOR CROSSOVERS, DRIVEWAYS, OR PARKING LOTS

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

PLAN: SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE

PROFILE: SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO. | BY | DATE

FILE NAME = D264D70-sht-Detail-001.dgn

KNIGHT Engineers & Architects

	DESIGNED - DJC	REVISED -	
	DRAWN - DJC	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	132
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

40′ SINGLE LANE MEDIAN CROSSOVER

(POSTED SPEED LIMIT 55 MPH, WORK ZONE SPEED LIMIT 45 MPH)

TYPICAL SECTION

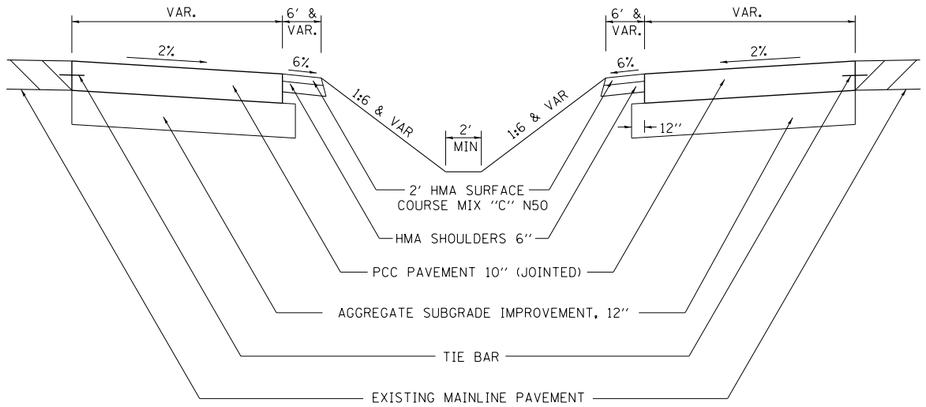
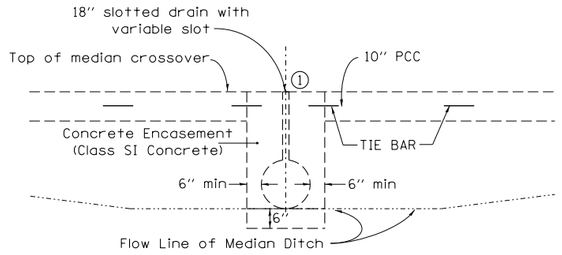
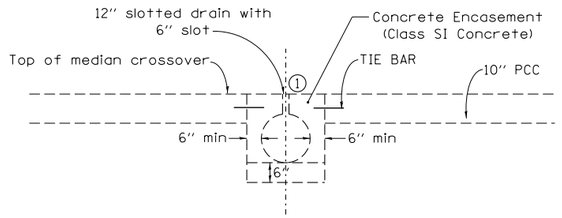


TABLE OF OFFSETS AND DROPS						
Distance feet from location station	0	60′ (B)	75′	100′	125′	143.73′ (C)
Offsets feet from inside edge of pavement	20′ (℄)	18′	15.32′	11.37′	8.06′	6.00′
Drop feet from inside edge of pavement	0.0′	0.0′	0.0′	0.0′	0.0′	0.0′



SECTION A–A

(USE TO MAINTAIN MEDIAN DRAINAGE THROUGH THE CROSSOVER)



① Duct tape or wood blocks shall be used to cover slotted drain during construction of crossover paving

SECTION A–A

(WHEN CROSSOVER IS AT MEDIAN HIGH POINT)

GENERAL NOTES

Construction of median crossover shall conform to the requirement of current Standard Specifications.

Slotted drain shall be constructed of 14 or 16 gauge corrugated metal roadway pipe modified to accommodate slotted drain as shown.

Pavement, subbase, & shoulder quantities are:

(1340.88 Sq. Yds.)	AGGREGATE SUBGRADE IMPROVEMENT, 12″
(1250.80 Sq. Yds.)	P.C.C. PAVEMENT 10″ (JOINTED)
(45.1 Tons)	2″ HMA SURFACE COURSE, MIX "C", N50
(402.52 Sq. Yds.)	HMA SHOULDERS 6″

Elbows and Caps shall be considered included to the SLOTTED DRAIN 12″ WITH 6″ SLOT.

See District Standard 61.2 or 68.1 for details for the slotted drain.

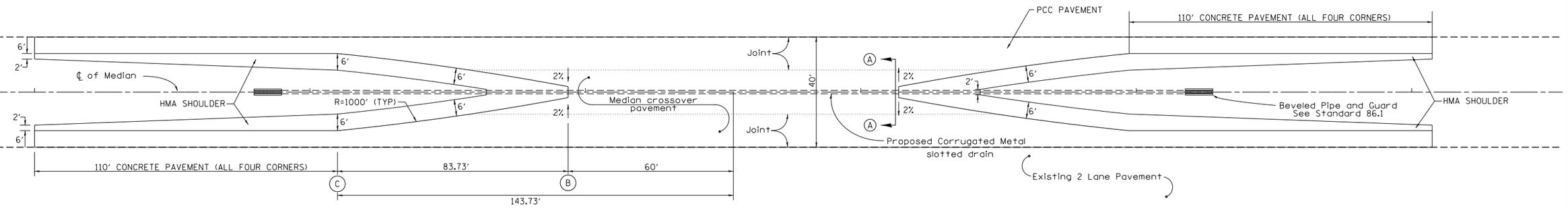
See District Standard 86.1 for details for the beveled pipe & guard.

The crossover is designed using a 45mph design speed.

The end of the pipe guard shall be set where a minimum 1:4 front slope can be constructed from each side of pipe guard to the HMA shoulder.

The PCC Pavement 10″ (Jointed) shall be constructed according to Section 420 of the Standard Specifications and Highway Standards 420001, 420101, & 420106

The PCC Pavement 10″ (Jointed) shall be tied to adjacent existing concrete pavement and the concrete encasement for the slotted drain. The tie bars shall be No.6 bars 24″ long @ 30″ cts, and installed according to the applicable portions of Article 420.05(b) of the Standard Specifications. The cost of the bars to be included in the cost of the PCC Pavement 10″ (Jointed).



TYPICAL PLAN

Unless otherwise specified, when the median crossover is to be removed, the Contractor shall be required to saw full-depth along the shoulder line 6′ from edge of pavement). The 6′ adjacent to the edge of pavement shall remain in place and be used as shoulders. The cost of Sawing shall be included in the Pavement Removal.

Longitudinal joints shall be sawed at a max 12′ width. All joints shall be sealed.

TRAFFIC CONTROL STANDARD 701416 IS TO BE USED WITH THIS DETAIL

PLAN: DATE | BY | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO.

PROFILE: DATE | BY | SURVEYED | PLOTTED | CROSS SECT. CHECKED | BM. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO.

FILE NAME = 0264070-sht-Detail-001.dgn

KNIGHT Engineers & Architects

	DESIGNED - DJC	REVISED - 1-05-16	
	DRAWN - DJC	REVISED - 8-27-13	
	CHECKED - DMS	REVISED - 12-07-10	
	DATE - 12/14/2018	REVISED -	

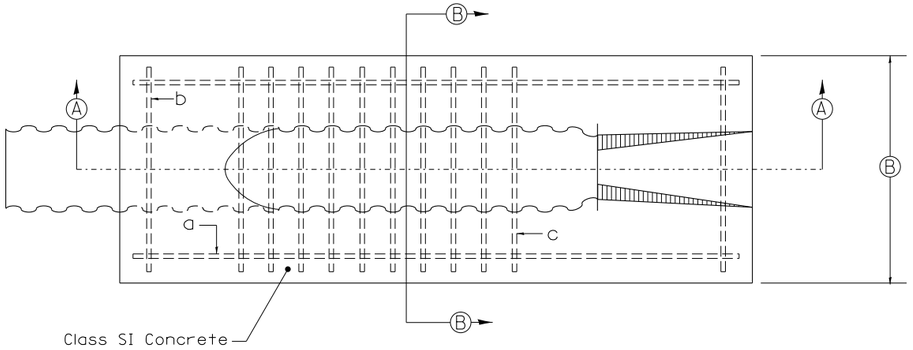
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105RS-6 & 105BR-1	WINNEBAGO	154	133
		CONTRACT NO. 64D70		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BEVELED PIPE & GUARD DETAIL FOR MEDIAN CROSSOVER



PLAN VIEW

12 PIPE REINFORCING SCHEDULE			
Mark Req'd	Bar Size	Length	No.
a	5	110	2
b	5	32	2
c	8	34	10

18 PIPE REINFORCING SCHEDULE			
Mark Req'd	Bar Size	Length	No.
a	5	162	2
b	5	38	2
c	8	40	18

GENERAL NOTES:

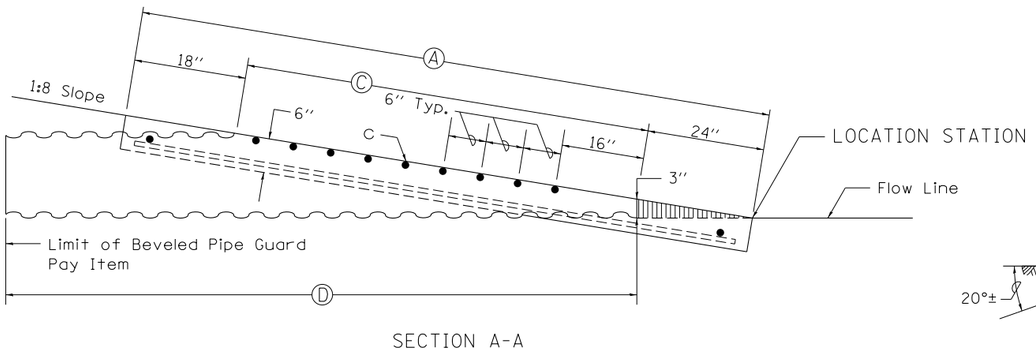
Details shown hereon are for the construction of beveled pipe and guard. Alternate designs, methods of construction or materials may be submitted to the Engineer for approval. All methods of construction and materials involved shall conform to current Standard Specifications.

Reinforcing steel used in construction of "Beveled Pipe and Guard" shall be deformed bars meeting the requirements of Article 1006.10 of the Standard Specifications. All steel bars shall be hot-dip galvanized in accordance with ASTM A 123 specifications.

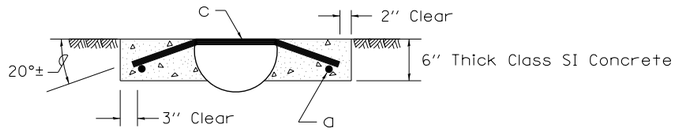
Concrete used in construction of the beveled pipe and guard shall be Class "SI" Concrete.

The corrugated metal pipe shall be cut to fit the 1:8 foreslope. Slots shall be cut into the C.M.P. for placement of the 'b' and 'c' bars. After the foreslope has been placed, the 'b' and 'c' bars shall be fitted into the slots cut in the C.M.P. so they will be in proper position when the concrete collar is poured.

This work shall be paid for at the contract unit price per Each for "Beveled Pipe and Guard", as shown hereon and as directed by the Engineer.



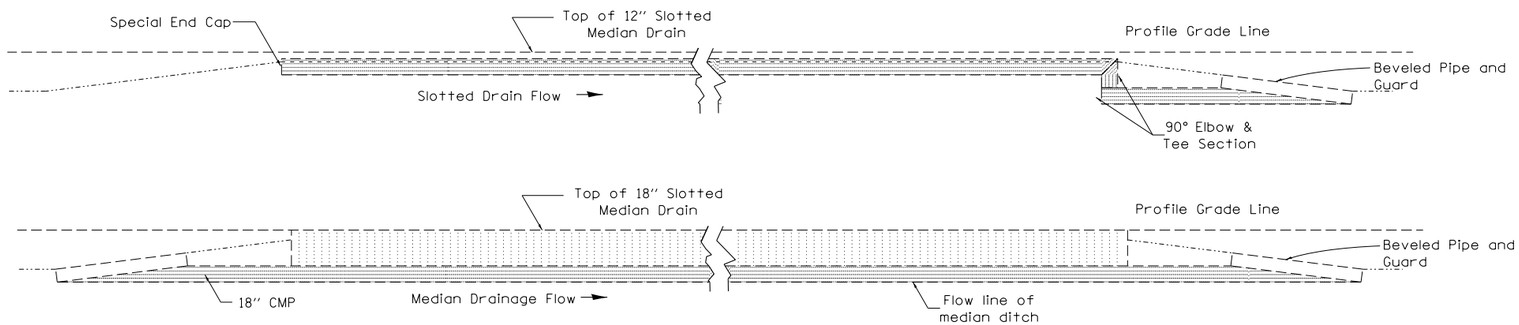
SECTION A-A



SECTION B-B

TABLE OF DIMENSIONS				
PIPE SIZE	A	B	C	D
12	9'-6"	36	6'	10'
18	13'-10"	42	10'-4"	14'-10"

TYPICAL SECTION THRU CENTERLINE OF MEDIAN CROSSOVER



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO. — DATE, BY

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD — DATE, BY

FILE NAME = D264D70-sht-Detail-001.dgn

KNIGHT Engineers & Architects

DESIGNED - DJC	REVISED -	5-27-09
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

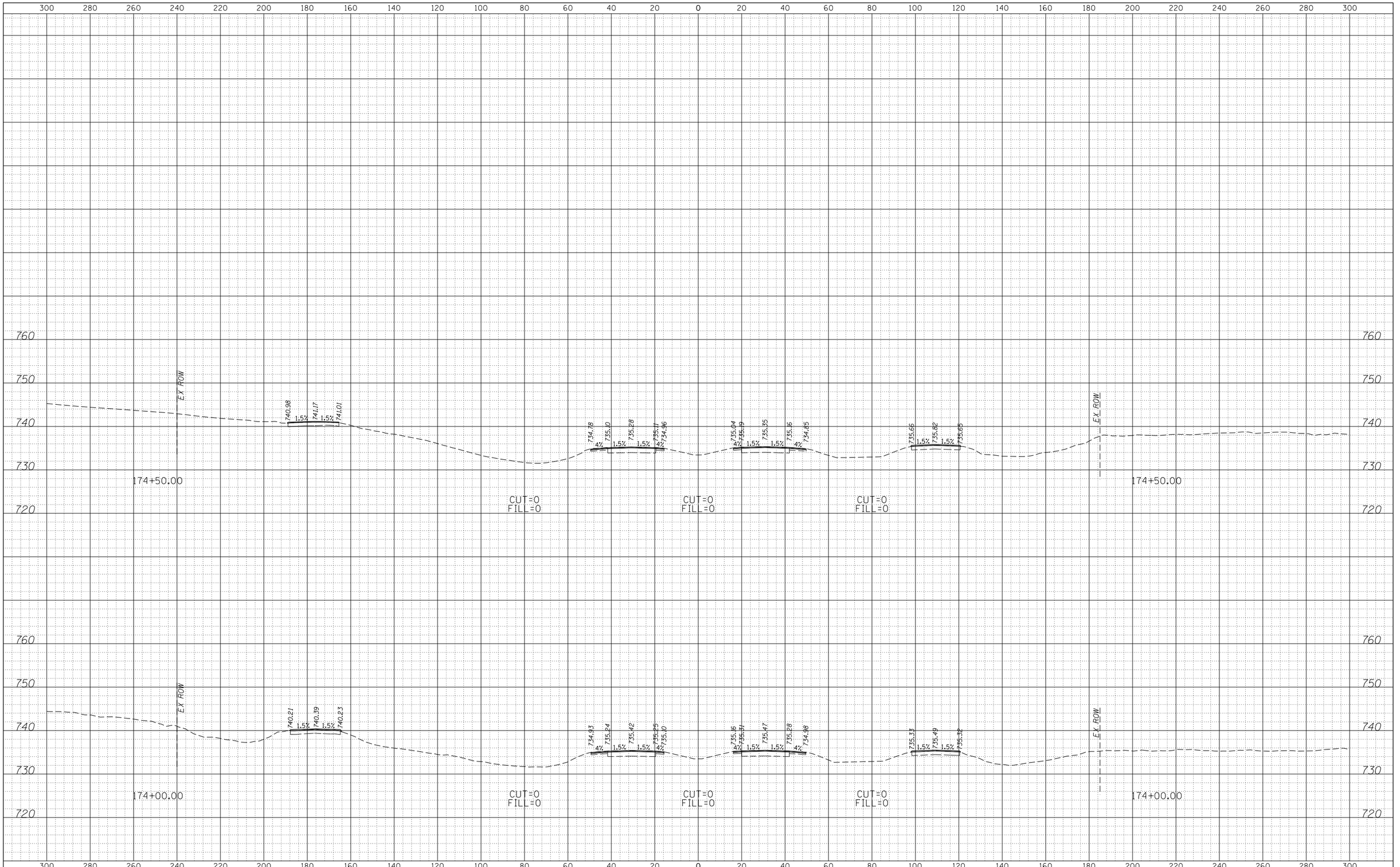
REGION 2 / DISTRICT 2 STANDARD

SHEET NO. OF SHEETS STA. TO STA.

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5128	105RS-6 & 105BR-1	WINNEBAGO	154	134
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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



	DESIGNED - DJC	REVISED -
	DRAWN - DJC	REVISED -
	CHECKED - DMS	REVISED -
	DATE - 12/14/2018	REVISED -

KNIGHT
Engineers & Architects

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

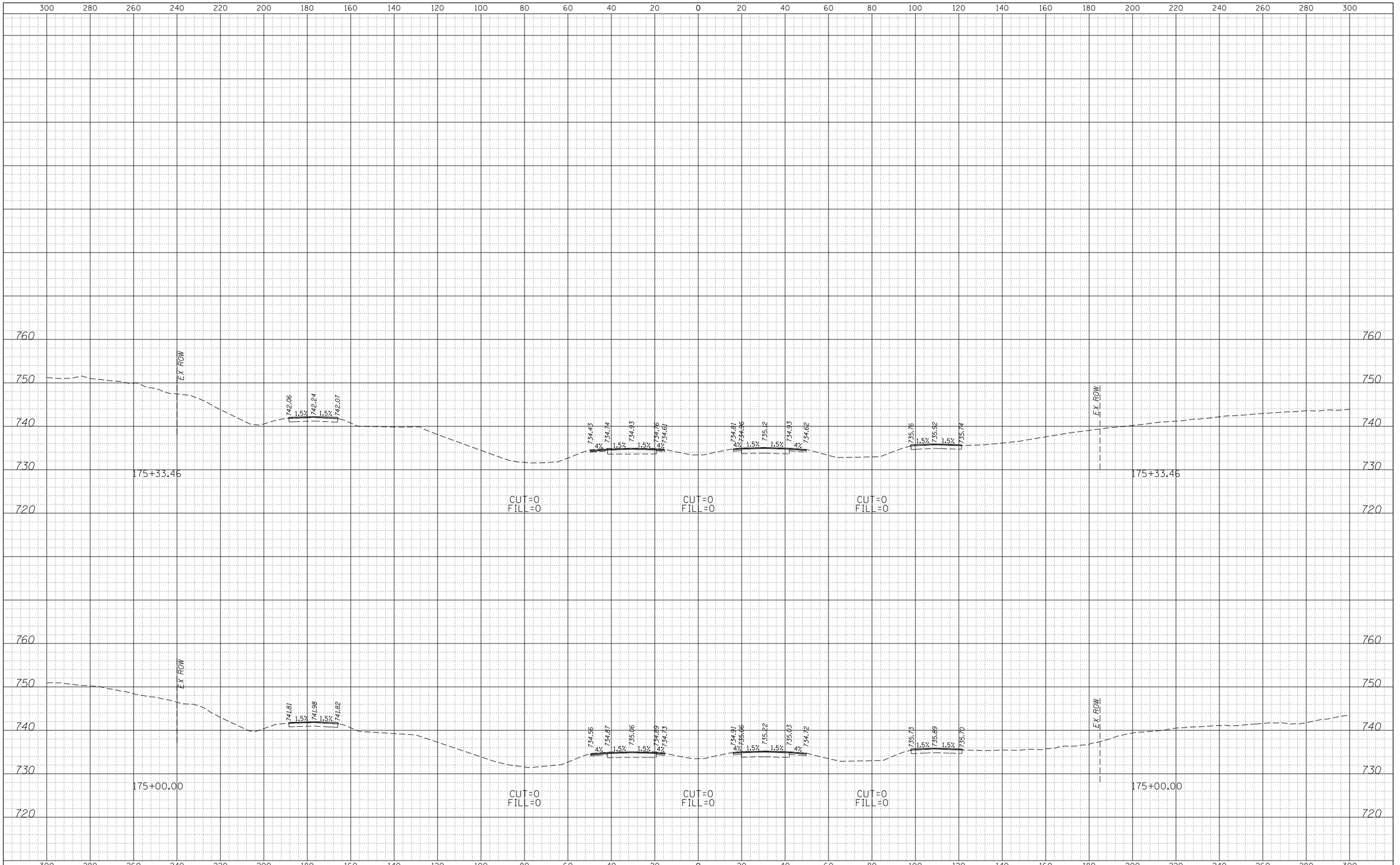
IL 251
CROSS SECTIONS

SCALE: 1" = 20' | SHEET 1 OF 20 SHEETS | STA. 174+00.00 TO STA.174+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	135
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			

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

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



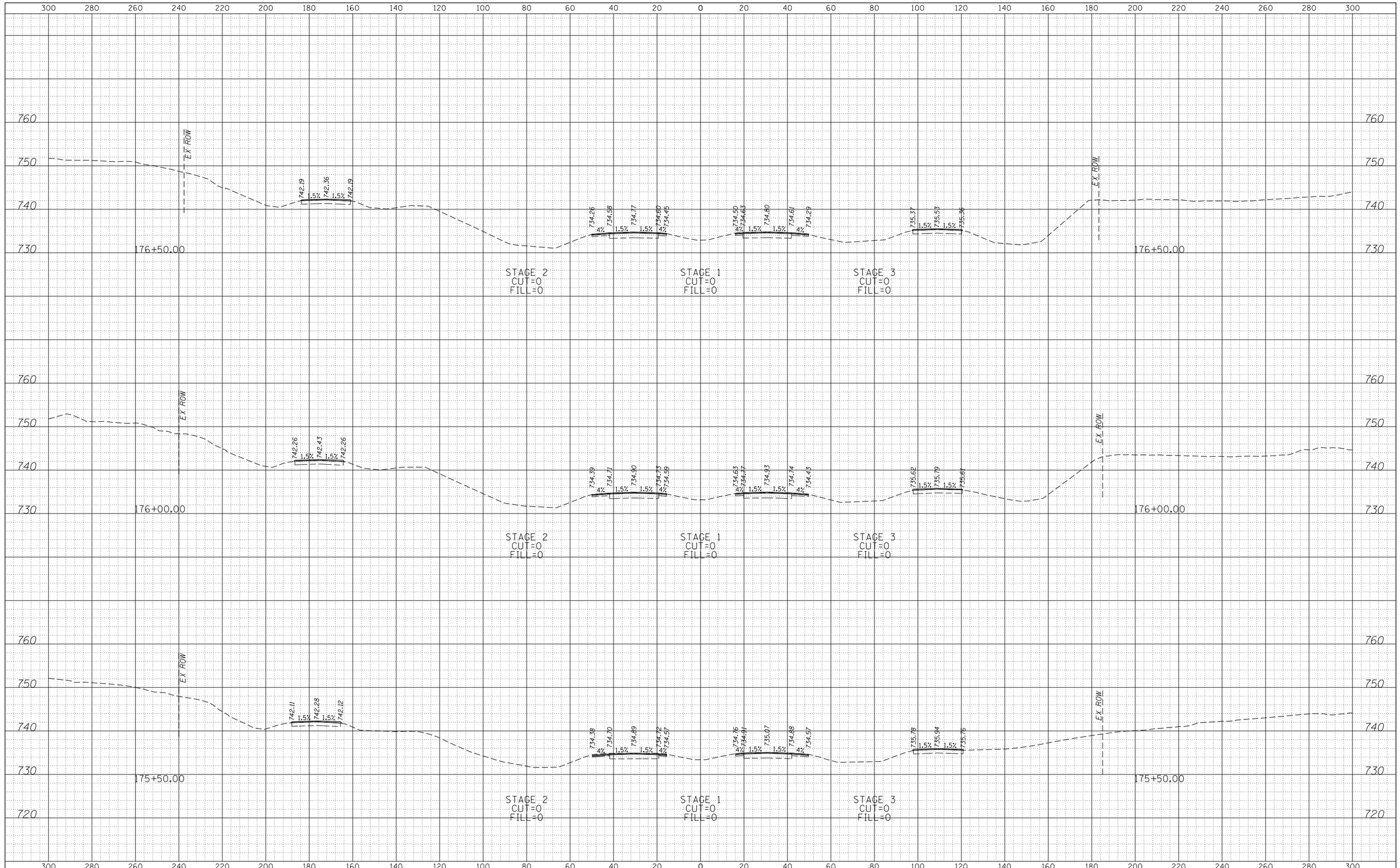
KNIGHT Engineers & Architects		DESIGNED - DJC	REVISED -
		DRAWN - DJC	REVISED -
		CHECKED - DMS	REVISED -
		DATE - 12/14/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 251
CROSS SECTIONS

SCALE: 1" = 20' | SHEET 2 OF 20 SHEETS | STA. 175+00.00 | TO STA.175+33.46

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	136
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			



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

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

KNIGHT
Engineers & Architects

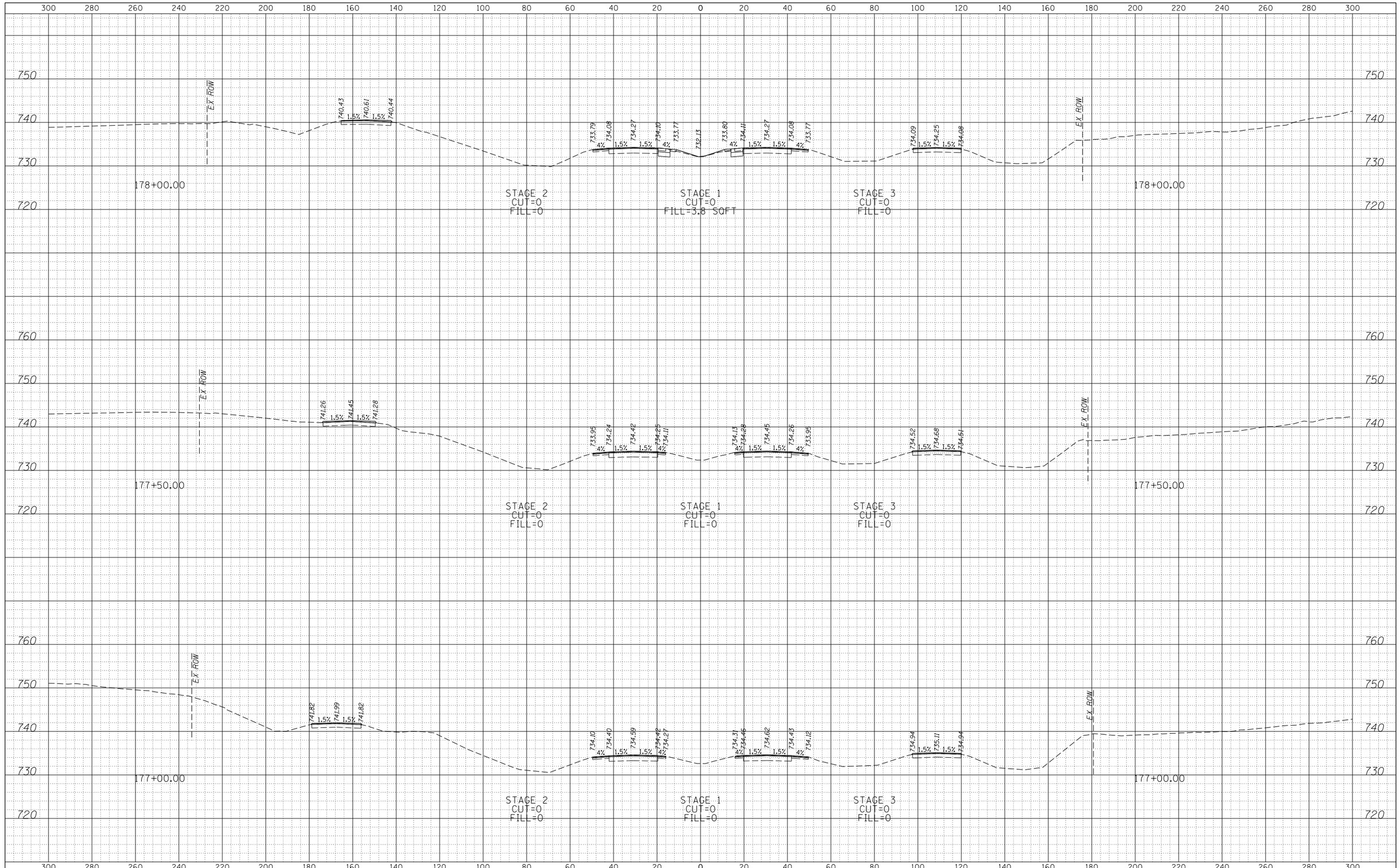
DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 251
CROSS SECTIONS

SCALE: 1" = 20' | SHEET 3 OF 20 SHEETS | STA. 175+50.00 TO STA. 176+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	137
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			



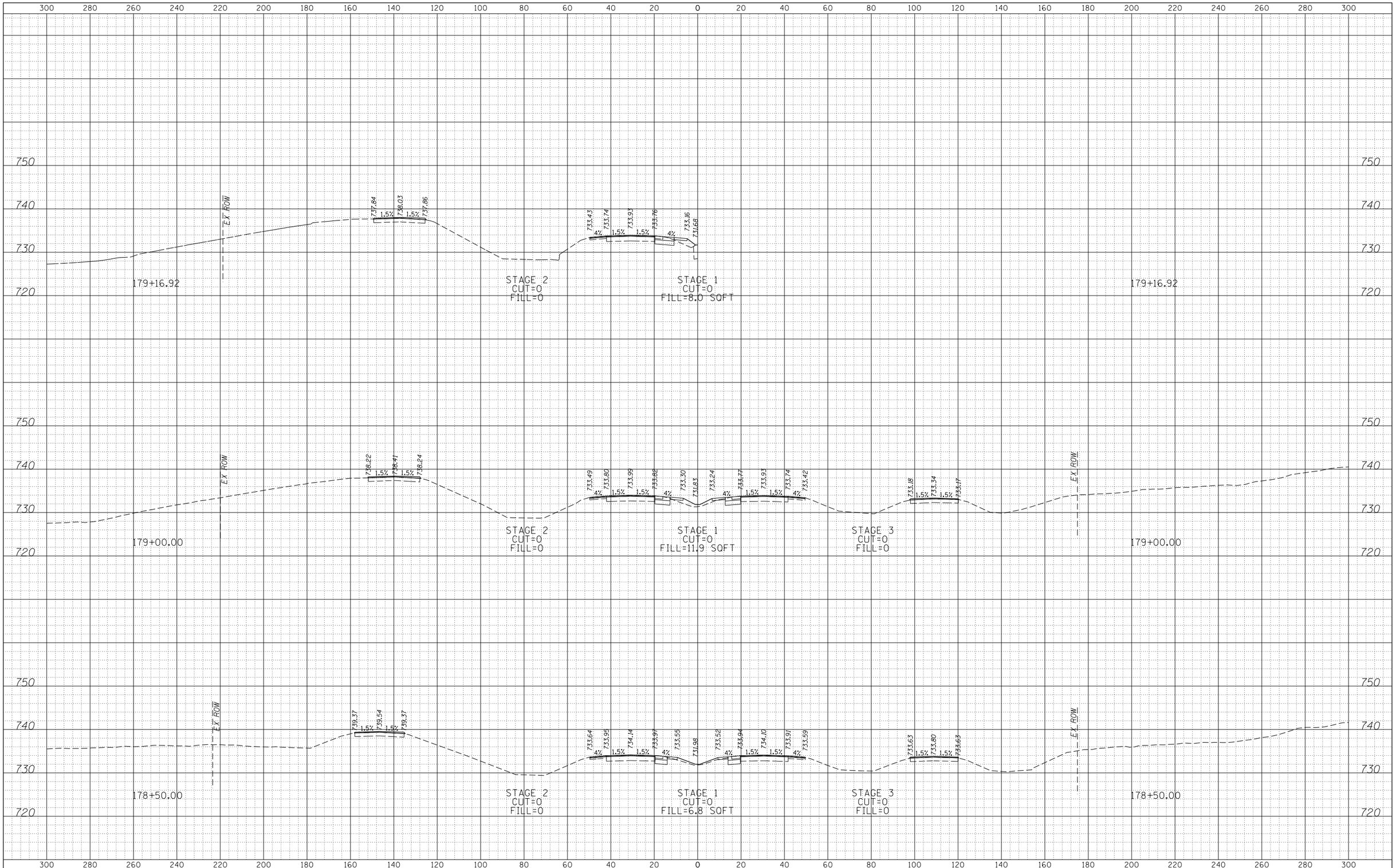
DESIGNED - DJC	REVISED -	**STATE OF ILLINOIS**	**IL 251**
DRAWN - DJC	REVISED -	**DEPARTMENT OF TRANSPORTATION**	**CROSS SECTIONS**
CHECKED - DMS	REVISED -		SCALE: 1" = 20' | SHEET 4 OF 20 SHEETS | STA. 177+00.00 TO STA.178+00.00
DATE - 12/14/2018	REVISED -		

KNIGHT
Engineers & Architects

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	138
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			

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

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



FINAL SURVEY — NOTE BOOK — NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY — NOTE BOOK — NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

KNIGHT
Engineers & Architects

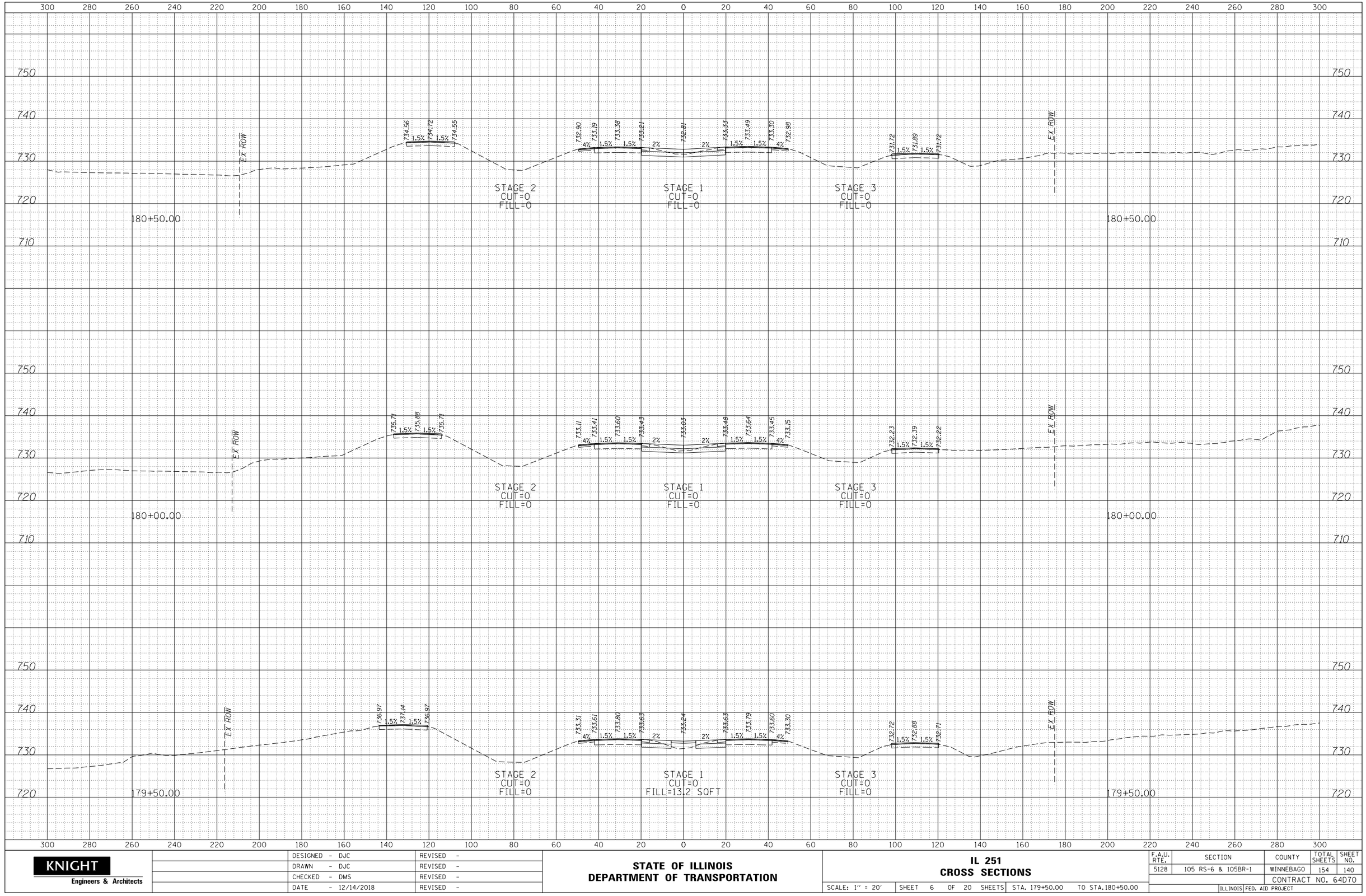
DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 251
CROSS SECTIONS

SCALE: 1" = 20' | SHEET 5 OF 20 SHEETS | STA. 178+50.00 TO STA. 179+16.92

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	139
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			



	DESIGNED - DJC	REVISED -	
	DRAWN - DJC	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 12/14/2018	REVISED -	

KNIGHT
Engineers & Architects

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

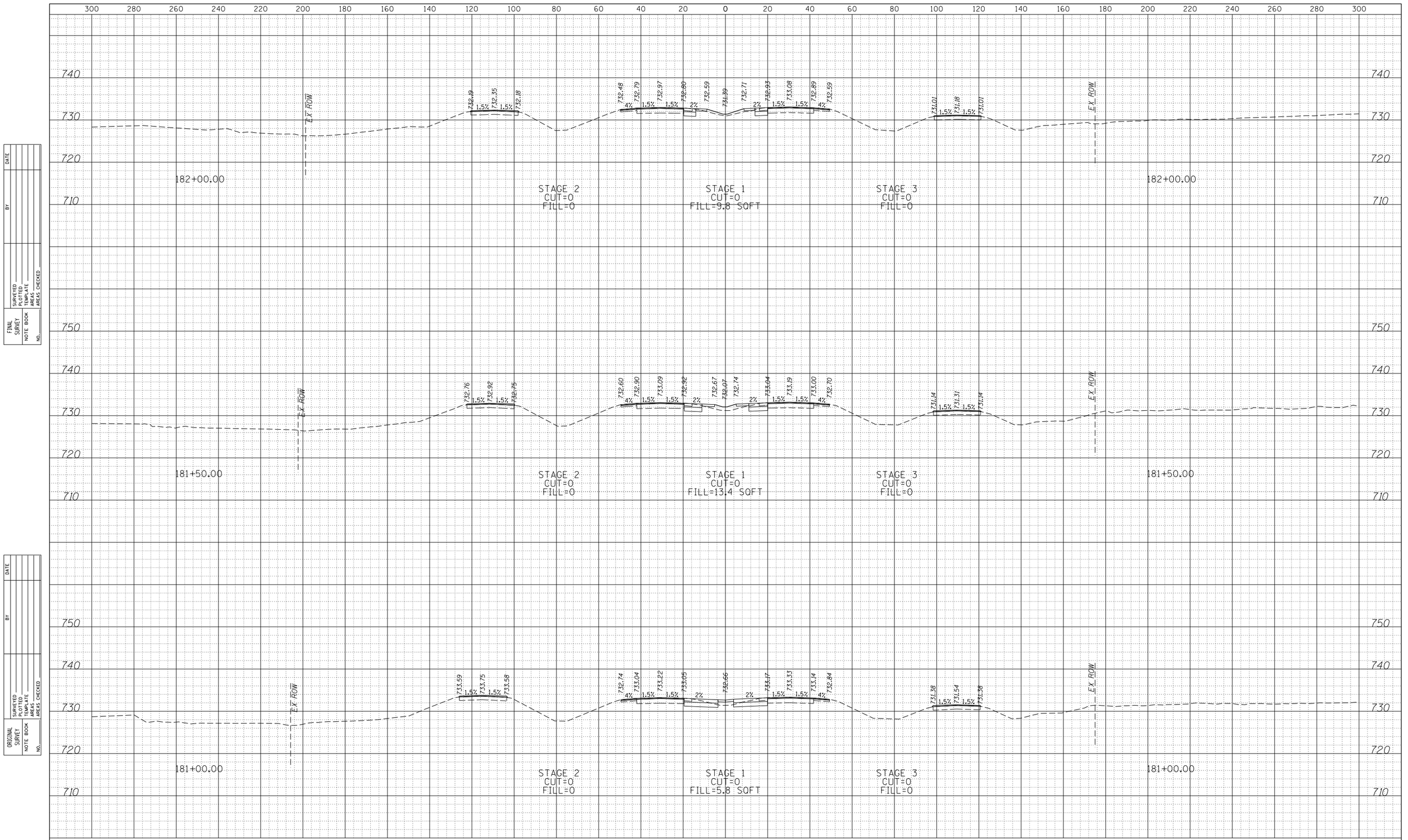
IL 251
CROSS SECTIONS

SCALE: 1" = 20' | SHEET 6 OF 20 SHEETS | STA. 179+50.00 TO STA.180+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	140
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			

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

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



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

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

KNIGHT
Engineers & Architects

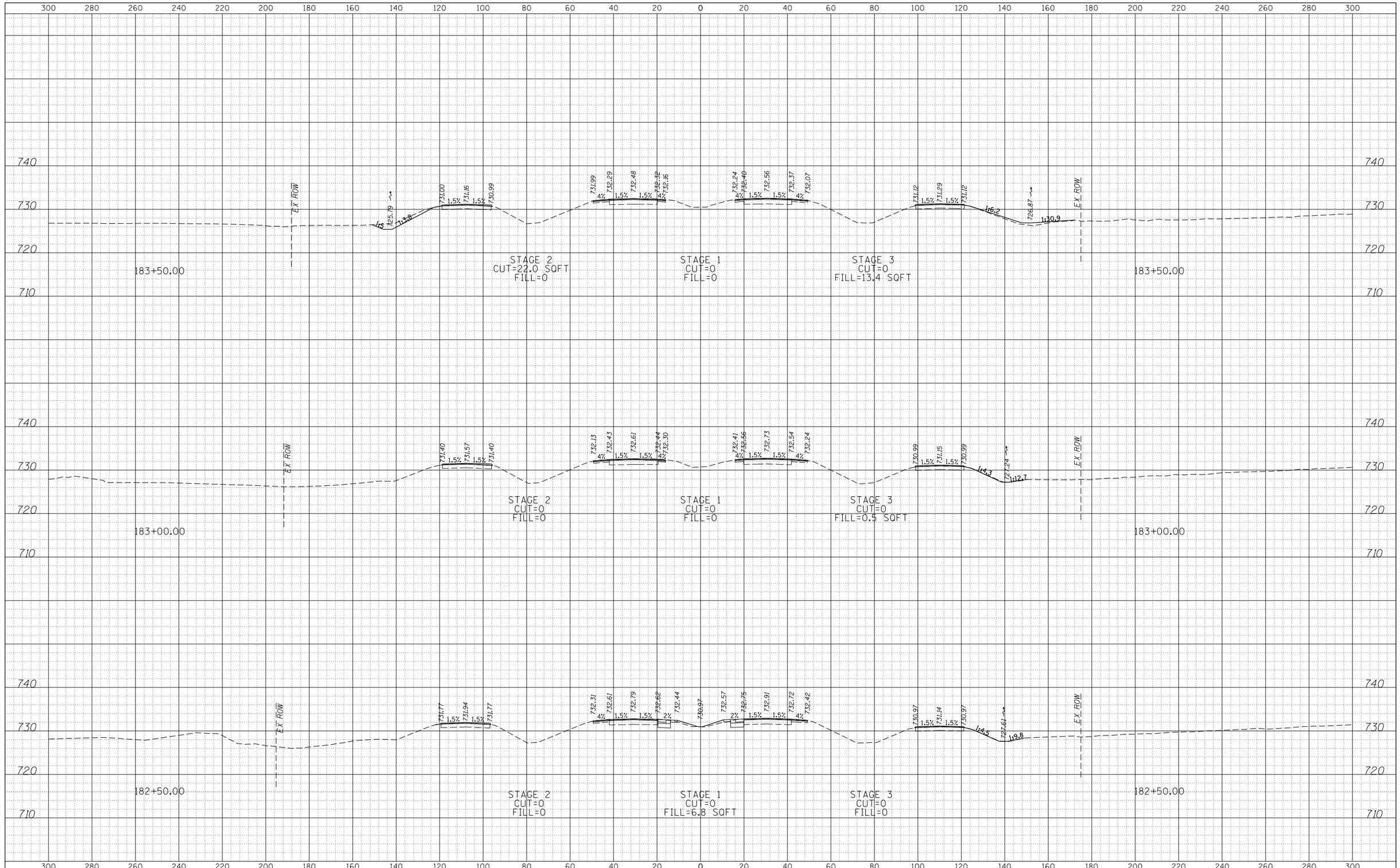
DESIGNED	- DJC	REVISED	-
DRAWN	- DJC	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 12/14/2018	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 251
CROSS SECTIONS

SCALE: 1" = 20' | SHEET 7 OF 20 SHEETS | STA. 181+00.00 TO STA.182+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	141
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			



FINAL SURVEY

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

ORIGINAL SURVEY

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

KNIGHT
Engineers & Architects

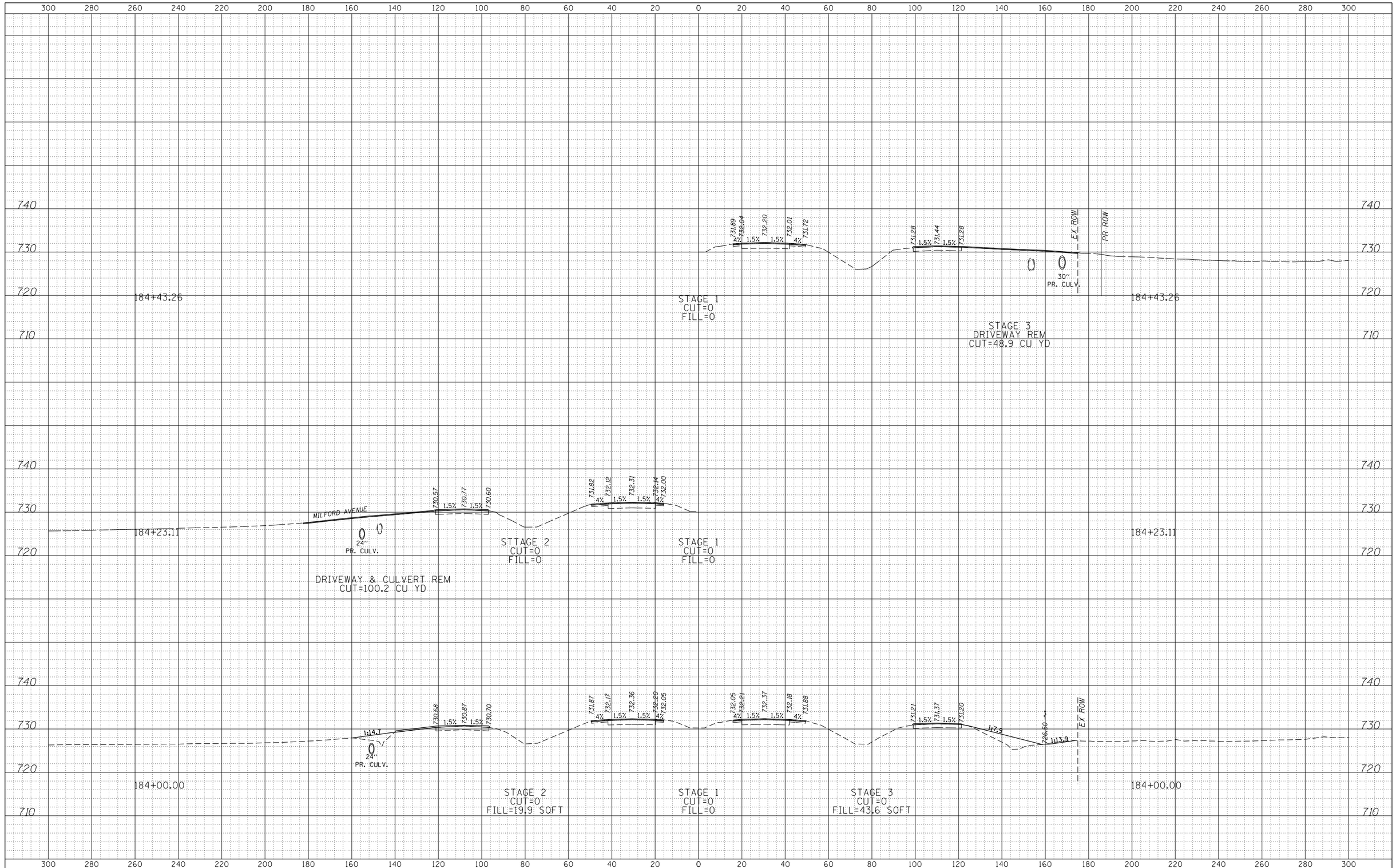
DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 251
CROSS SECTIONS

SCALE: 1" = 20' | SHEET 8 OF 20 SHEETS | STA. 182+50.00 TO STA. 183+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	142
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			



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

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

KNIGHT
Engineers & Architects

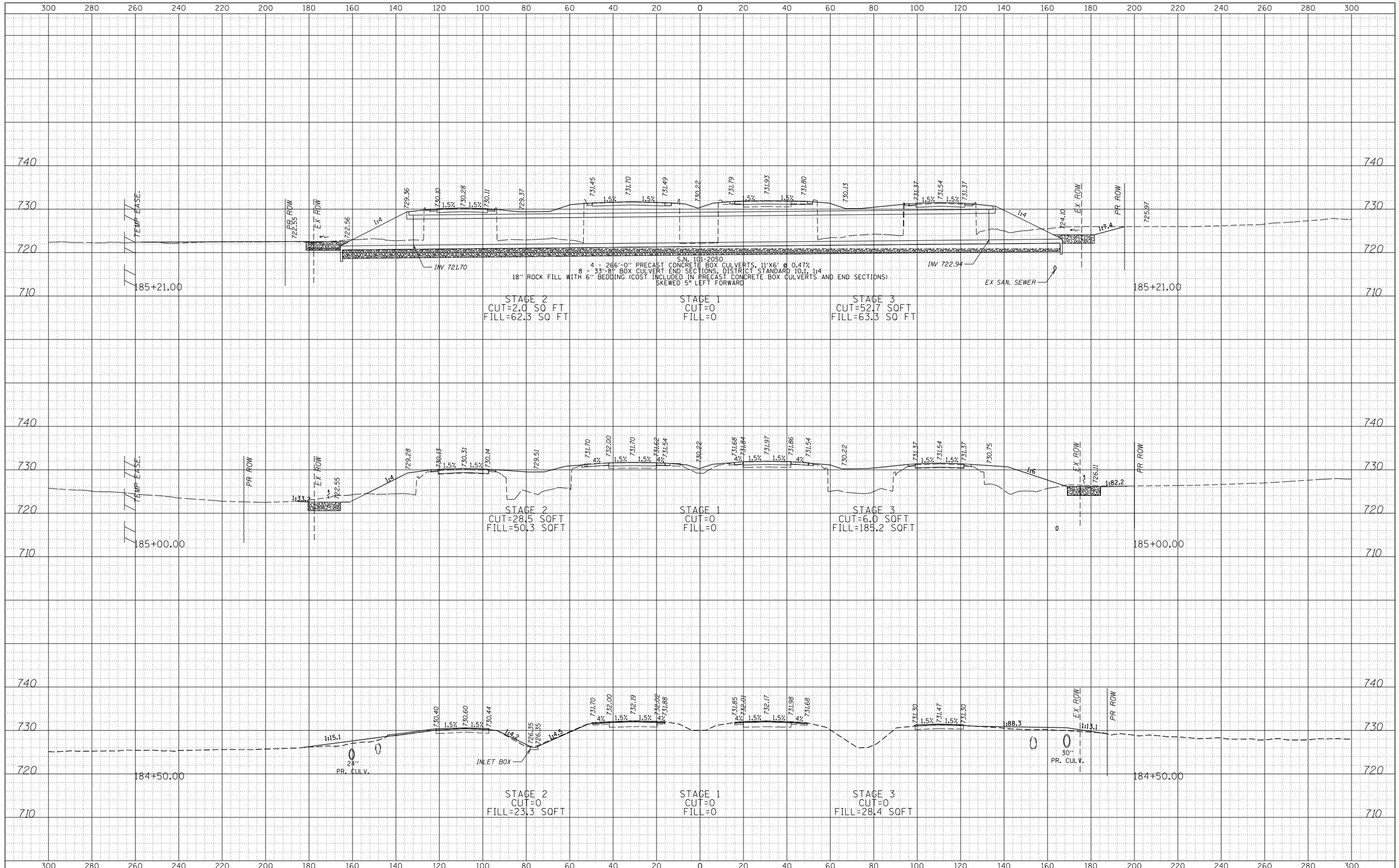
DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 251
CROSS SECTIONS

SCALE: 1" = 20' | SHEET 9 OF 20 SHEETS | STA. 184+00.00 TO STA. 184+43.26

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	143
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			



FINAL SURVEY

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

ORIGINAL SURVEY

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

KNIGHT
Engineers & Architects

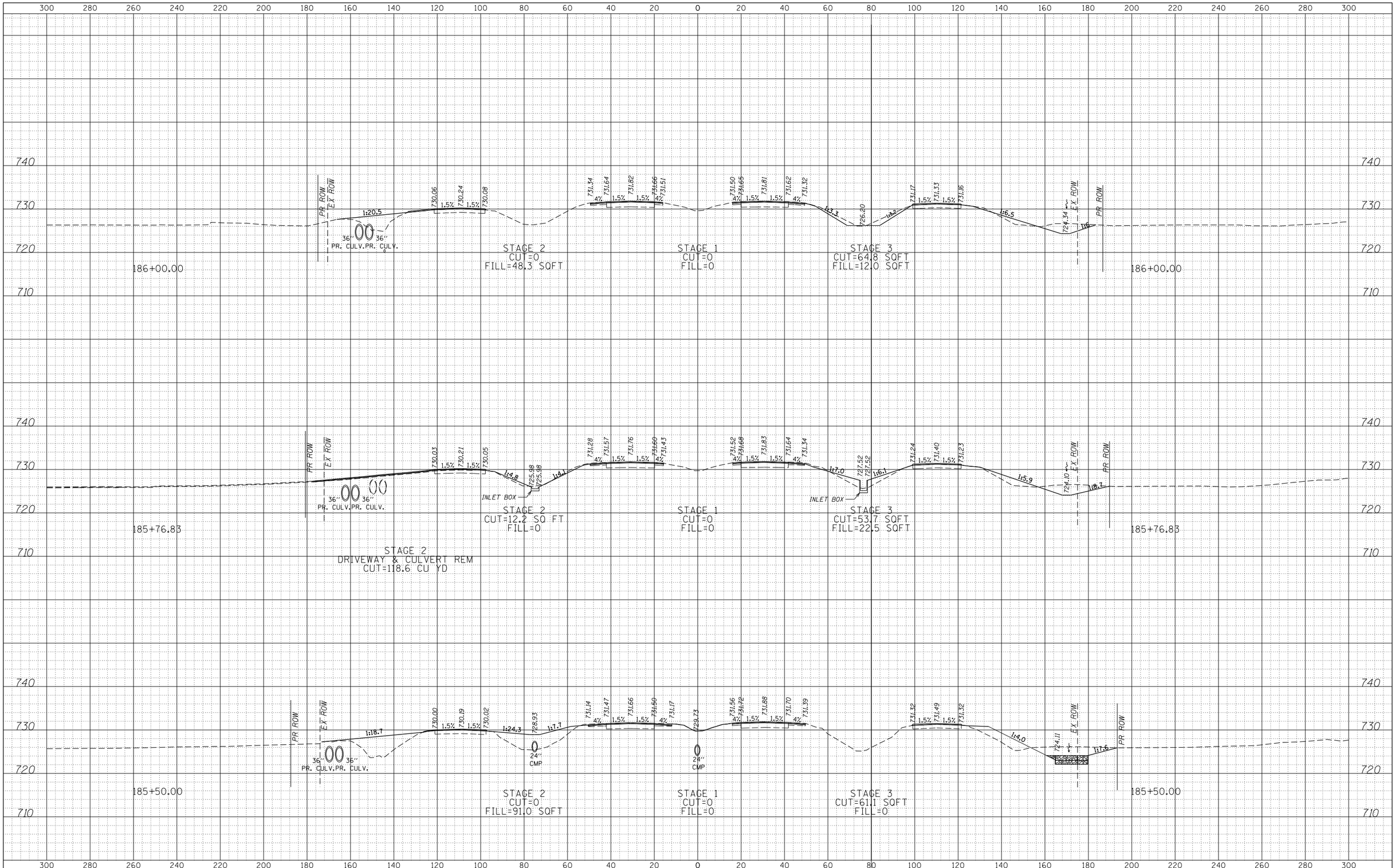
DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 251
CROSS SECTIONS

SCALE: 1" = 20' | SHEET 10 OF 20 SHEETS | STA. 184+50.00 TO STA.185+21.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	144
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			



FINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

KNIGHT
Engineers & Architects

DESIGNED	- DJC	REVISED	-
DRAWN	- DJC	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 12/14/2018	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

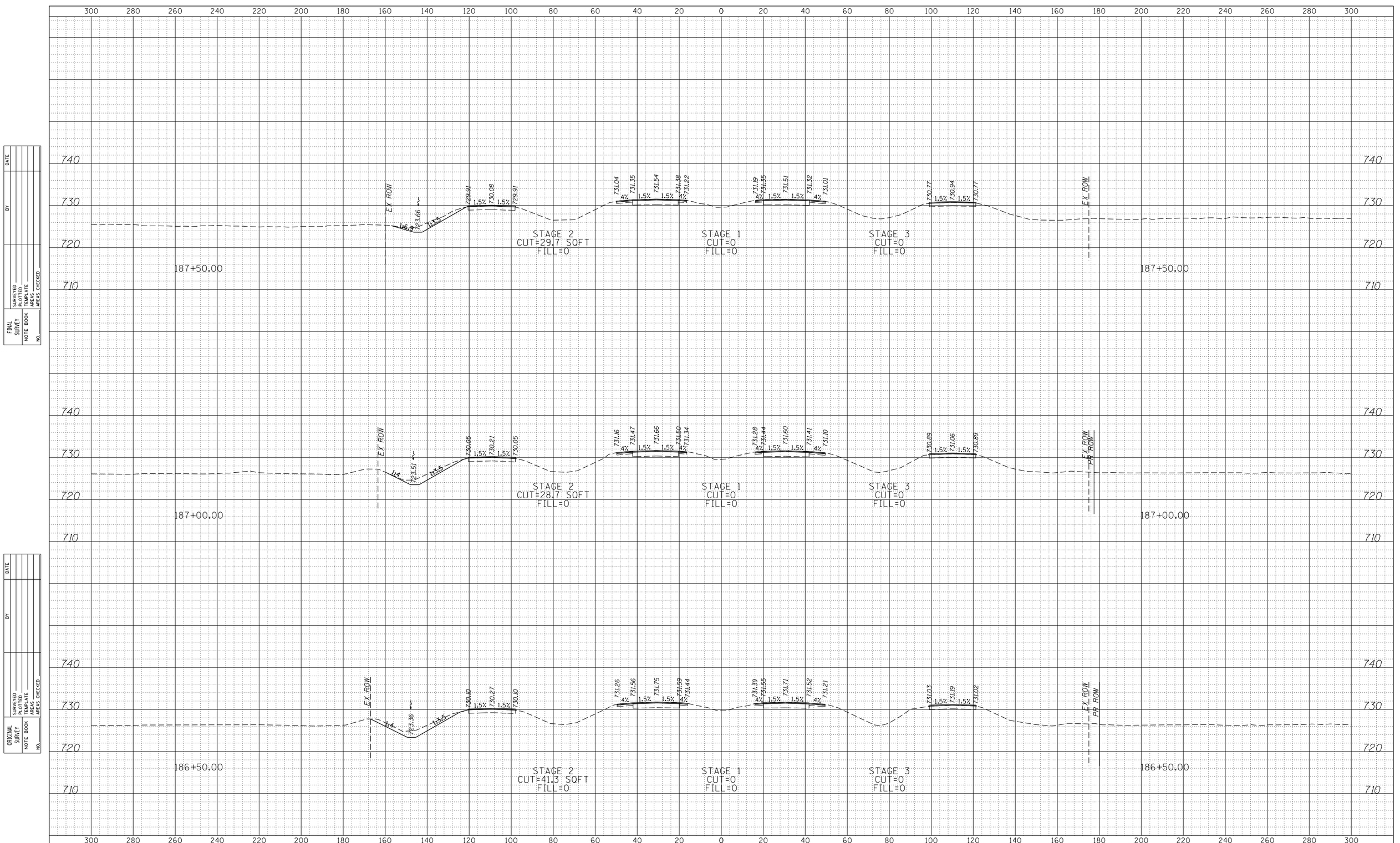
IL 251
CROSS SECTIONS

SCALE: 1" = 20' | SHEET 11 OF 20 SHEETS | STA. 185+50.00 TO STA. 186+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	145

CONTRACT NO. 64D70

ILLINOIS FED. AID PROJECT



FINAL SURVEY

NOTE BOOK	BY	DATE
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY

NOTE BOOK	BY	DATE
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

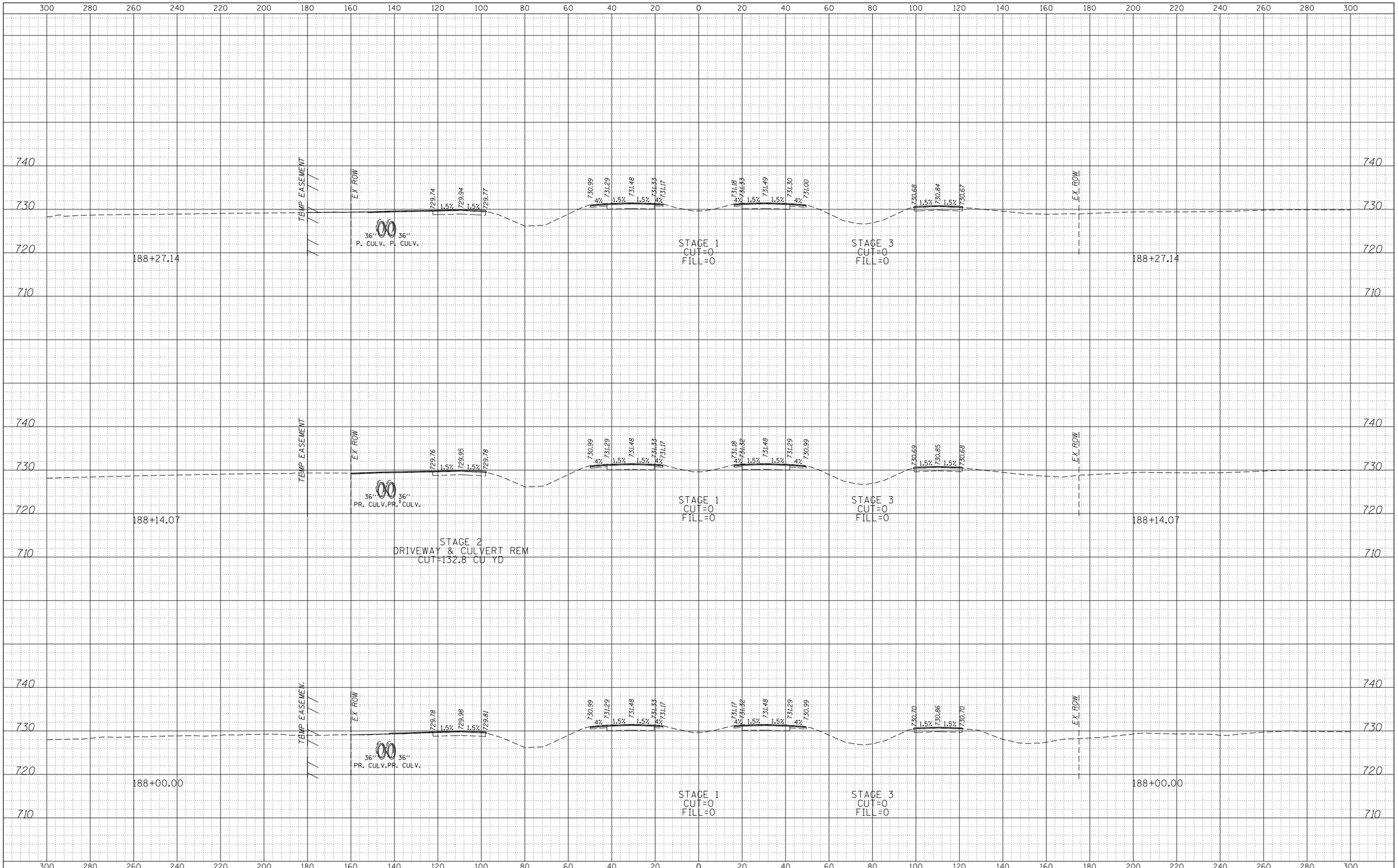
IL 251
CROSS SECTIONS

SCALE: 1" = 20' | SHEET 12 OF 20 SHEETS | STA. 186+50.00 TO STA.187+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	146
		CONTRACT NO. 64D70		
		ILLINOIS FED. AID PROJECT		

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

BY	DATE



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

BY	DATE

KNIGHT
Engineers & Architects

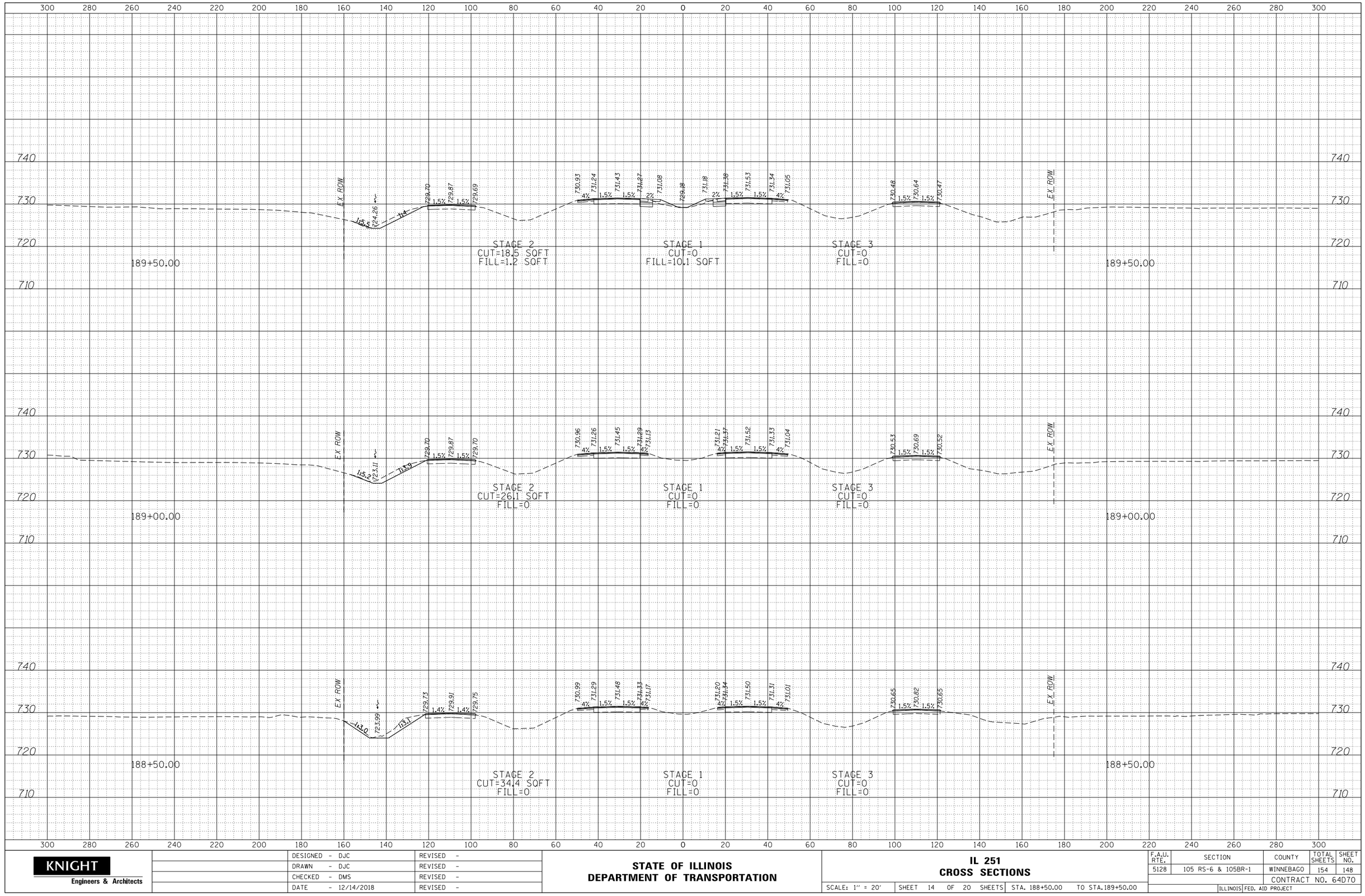
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DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 251
CROSS SECTIONS

SCALE: 1" = 20' | SHEET 13 OF 20 SHEETS | STA. 188+00.00 TO STA. 188+27.14

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	147
		CONTRACT NO. 64D70		
		ILLINOIS FED. AID PROJECT		



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

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

KNIGHT
Engineers & Architects

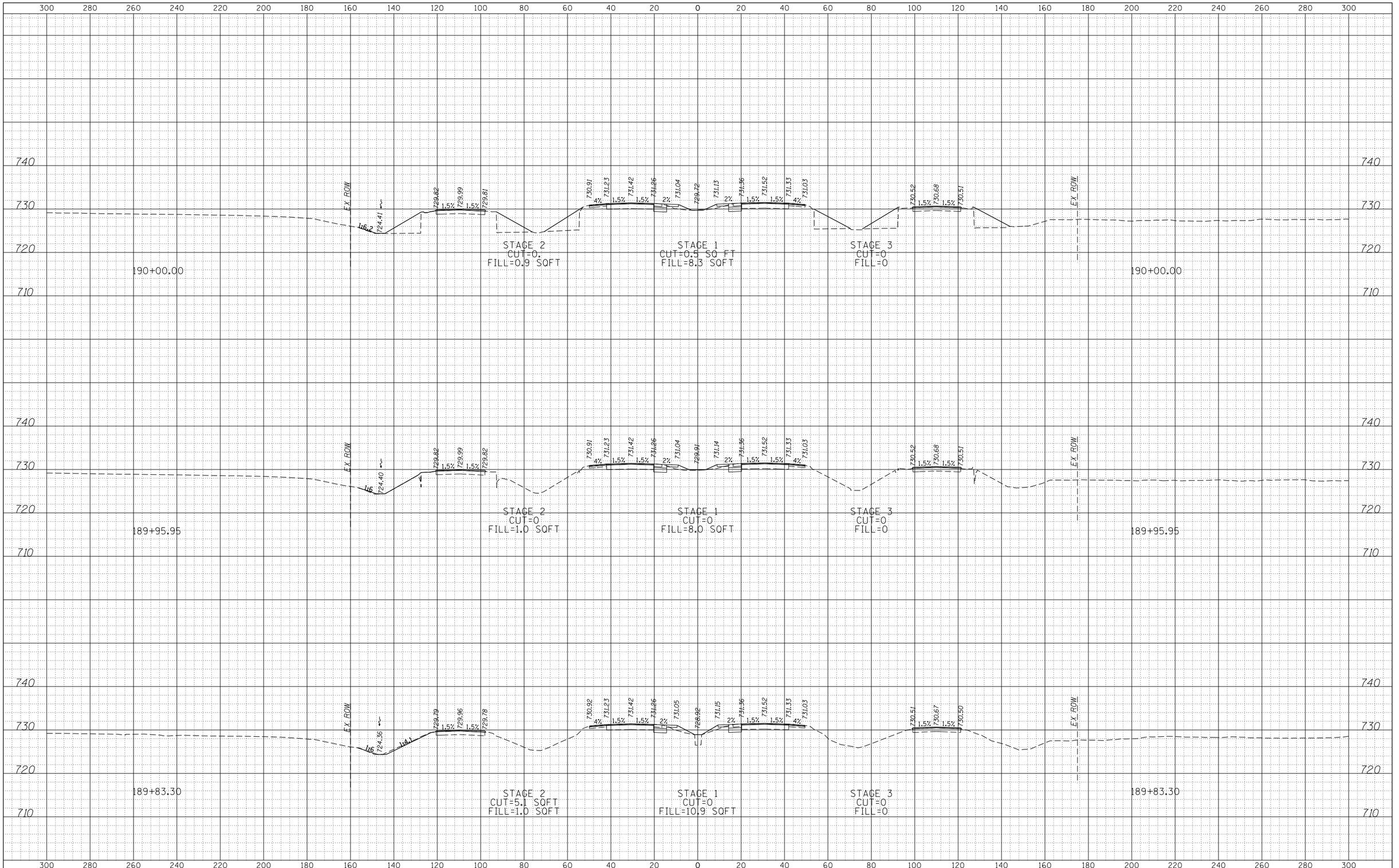
DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 251
CROSS SECTIONS

SCALE: 1" = 20' | SHEET 14 OF 20 SHEETS | STA. 188+50.00 TO STA.189+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	148
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			



FINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 251
CROSS SECTIONS

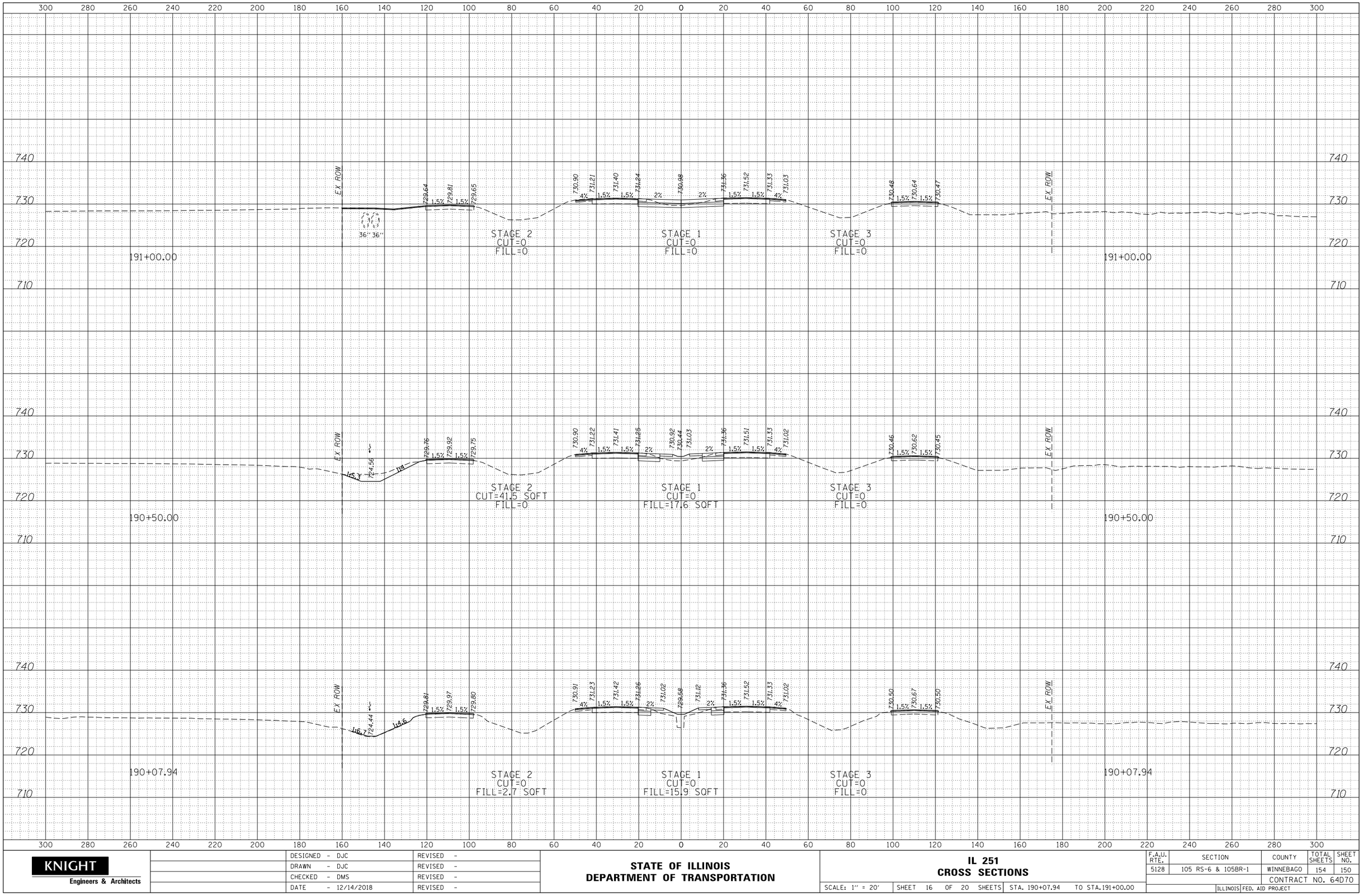
SCALE: 1" = 20' | SHEET 15 OF 20 SHEETS | STA. 189+83.30 TO STA.190+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	149
		CONTRACT NO. 64D70		
		ILLINOIS FED. AID PROJECT		

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

BY

DATE



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

BY

DATE

KNIGHT
Engineers & Architects

DESIGNED	- DJC	REVISED	-
DRAWN	- DJC	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 12/14/2018	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

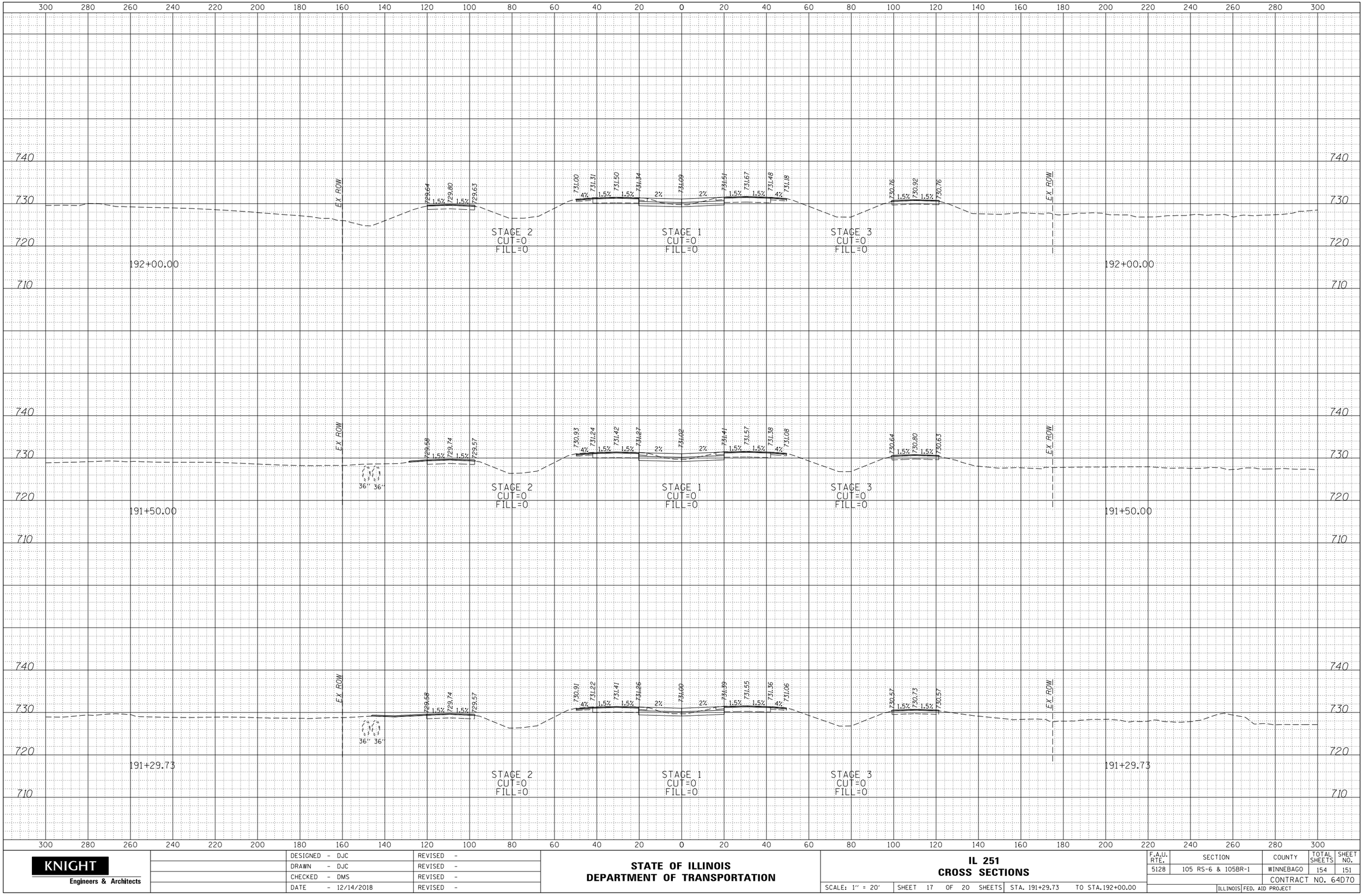
IL 251
CROSS SECTIONS

SCALE: 1" = 20' | SHEET 16 OF 20 SHEETS | STA. 190+07.94 TO STA.191+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	150
		CONTRACT NO. 64D70		
		ILLINOIS FED. AID PROJECT		

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

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



	DESIGNED - DJC	REVISED -
	DRAWN - DJC	REVISED -
	CHECKED - DMS	REVISED -
	DATE - 12/14/2018	REVISED -

KNIGHT
Engineers & Architects

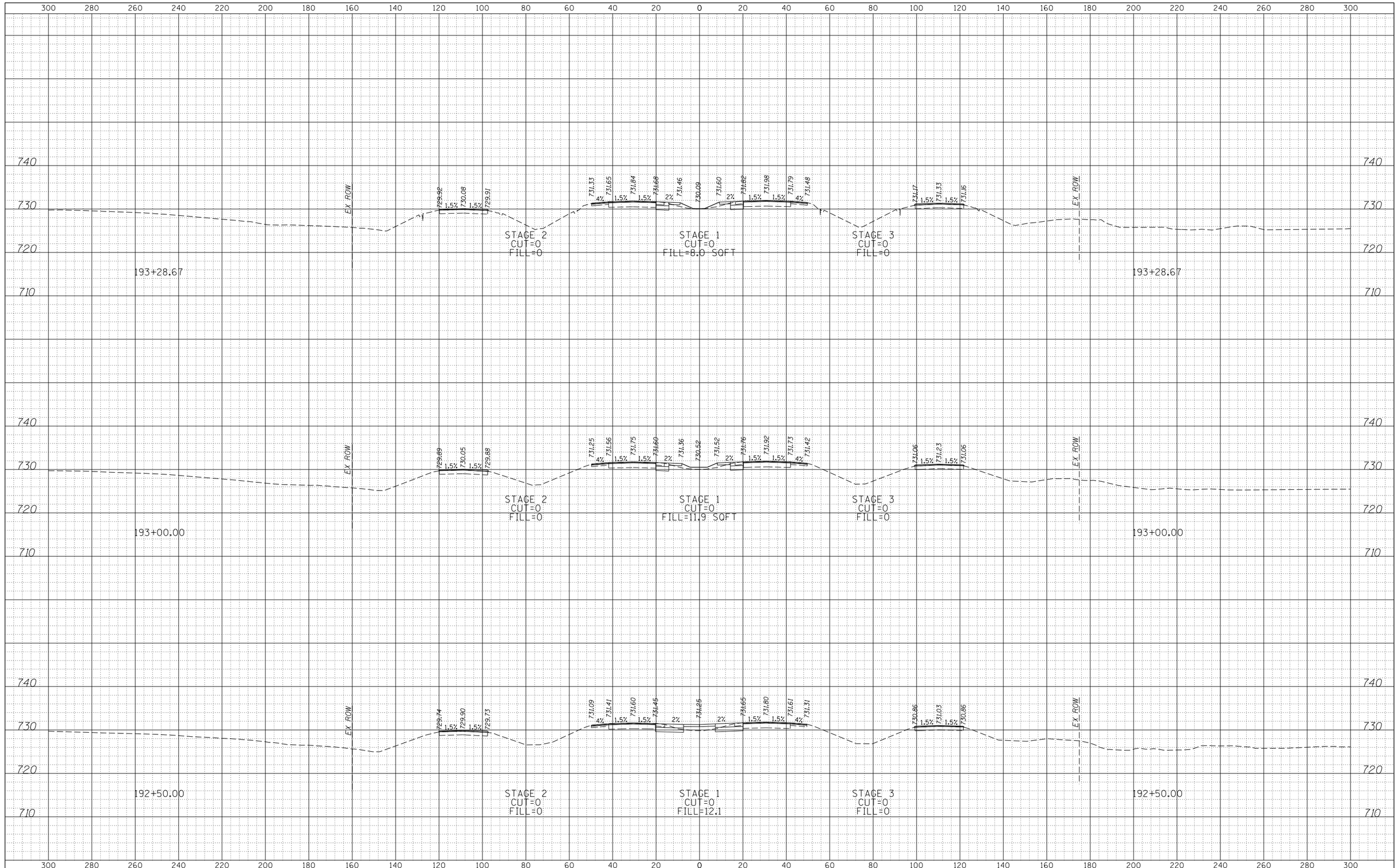
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 251
CROSS SECTIONS

SCALE: 1" = 20' | SHEET 17 OF 20 SHEETS | STA. 191+29.73 TO STA.192+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	151
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			

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



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

KNIGHT
Engineers & Architects

DESIGNED	- DJC	REVISED	-
DRAWN	- DJC	REVISED	-
CHECKED	- DMS	REVISED	-
DATE	- 12/14/2018	REVISED	-

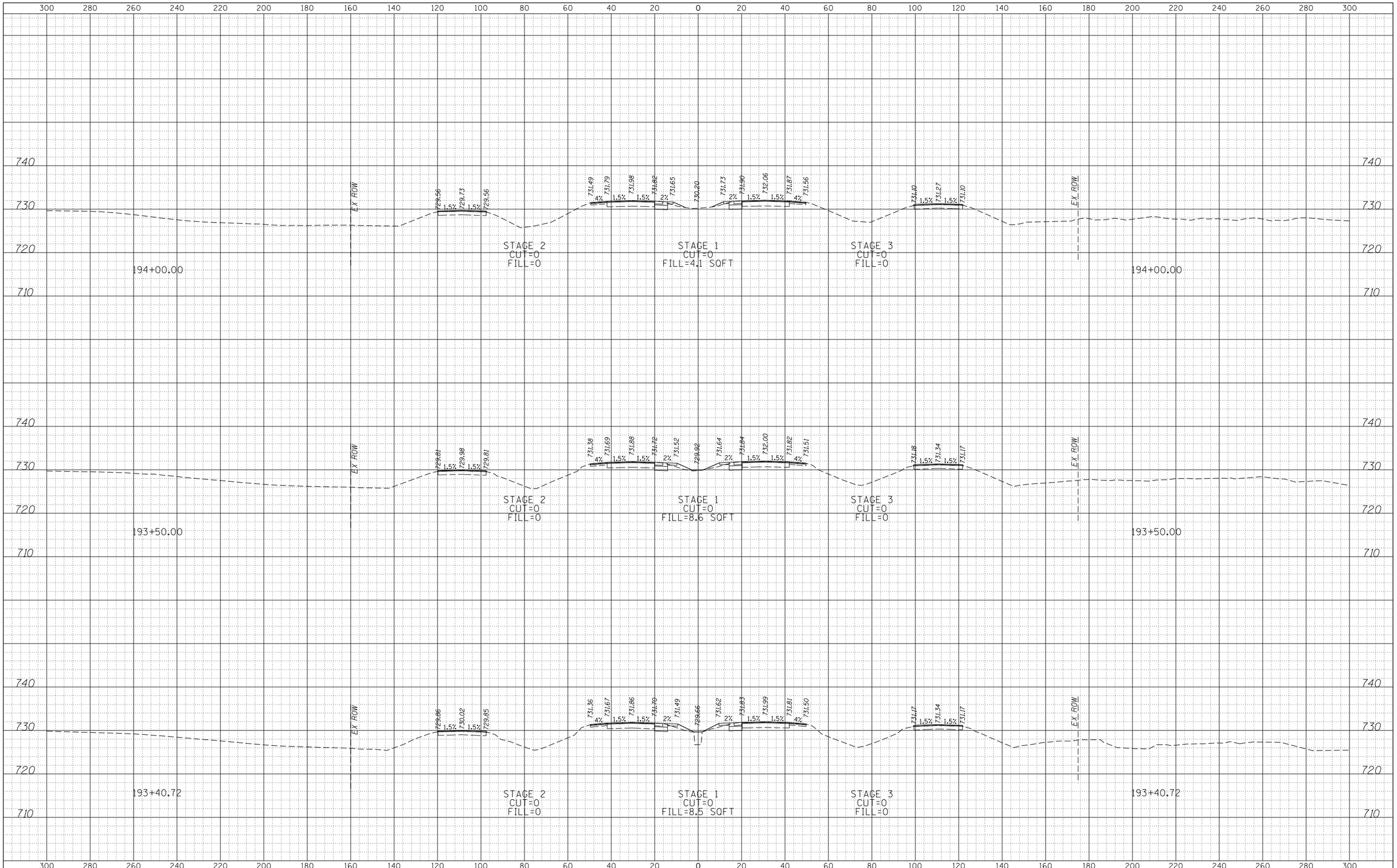
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 251
CROSS SECTIONS

SCALE: 1" = 20' | SHEET 18 OF 20 SHEETS | STA. 192+50.00 TO STA.193+28.67

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	152
		CONTRACT NO. 64D70		
		ILLINOIS FED. AID PROJECT		

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



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

KNIGHT
Engineers & Architects

DESIGNED - DJC	REVISED -	
DRAWN - DJC	REVISED -	
CHECKED - DMS	REVISED -	
DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

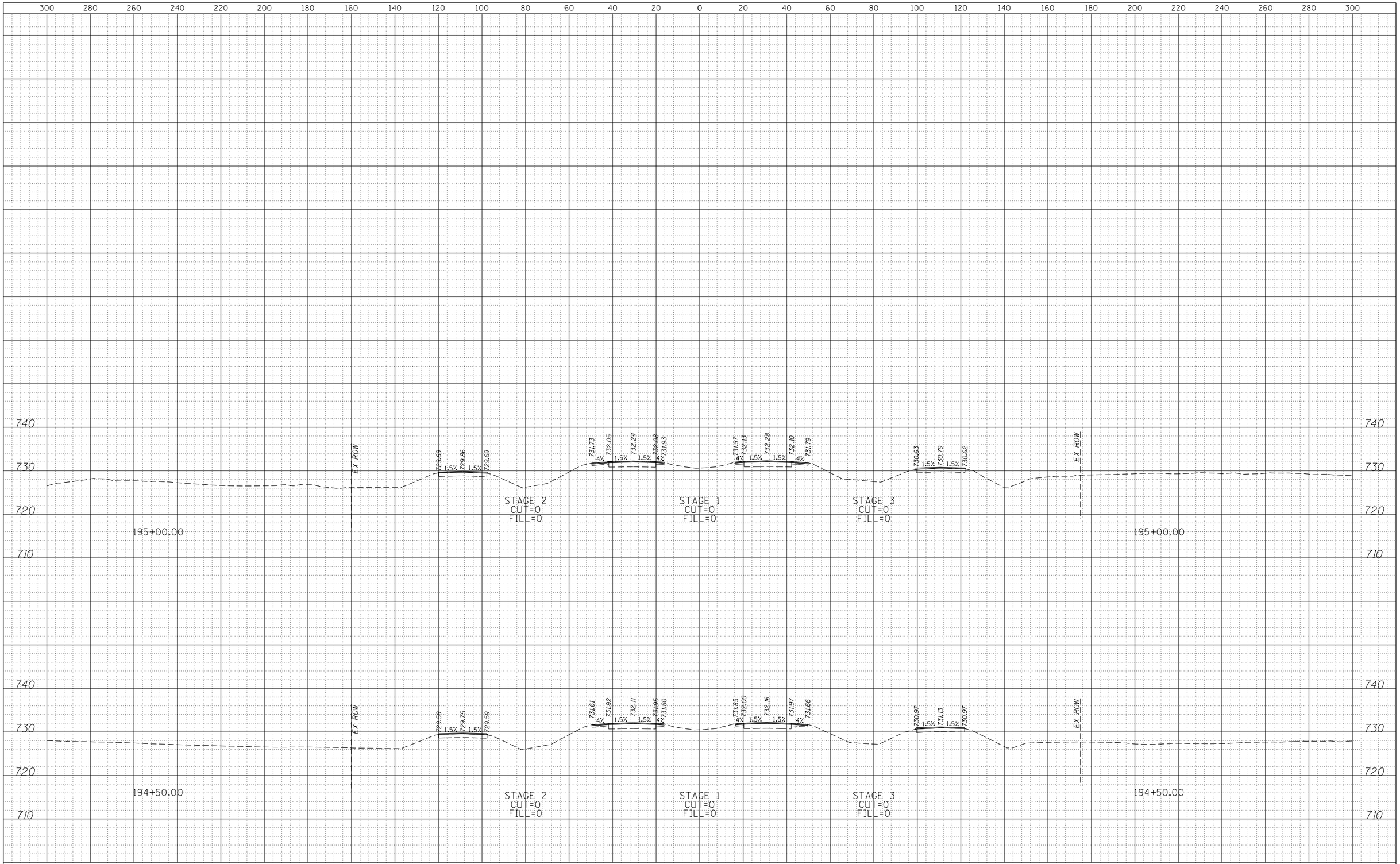
IL 251
CROSS SECTIONS

SCALE: 1" = 20' | SHEET 19 OF 20 SHEETS | STA. 193+40.72 TO STA.194+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	153
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			

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

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



KNIGHT Engineers & Architects	DESIGNED - DJC	REVISED -	
	DRAWN - DJC	REVISED -	
	CHECKED - DMS	REVISED -	
	DATE - 12/14/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 251
CROSS SECTIONS

SCALE: 1" = 20' | SHEET 20 OF 20 SHEETS | STA. 194+50.00 TO STA.195+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5128	105 RS-6 & 105BR-1	WINNEBAGO	154	154
		CONTRACT NO. 64D70		
	ILLINOIS FED. AID PROJECT			