F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352 5336	18-00193-00-BR	DEKALB	133	1
		ILLINOIS	CONTRACT NO. 87779	

06/17/2022 LETTING ITEM 215

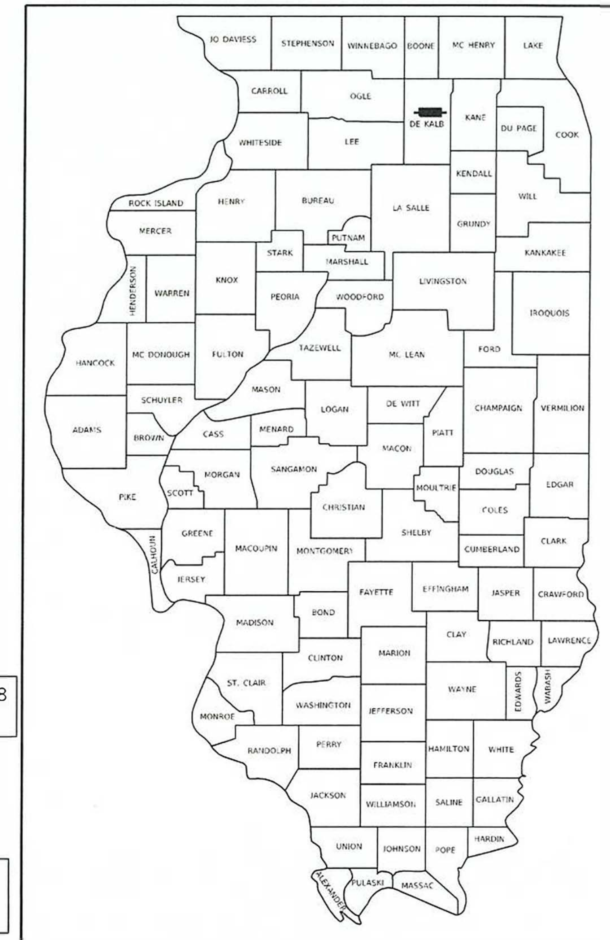
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

SPECIAL BRIDGE PROGRAM
ROUTE F.A.U. 5352 & F.A.U. 5336
N. FIRST STREET AND LUCINDA AVENUE BRIDGES
SECTION 18–00193–00–BR
BRIDGE REPLACEMENTS
PROJECT RUS8(742)
CITY OF DEKALB, DEKALB COUNTY

C–93–014–22

FOR INDEX OF SHEETS, SEE SHEET NO. 2



LOCATION OF SECTION INDICATED THUS: –

TOWNSHIP 40 N

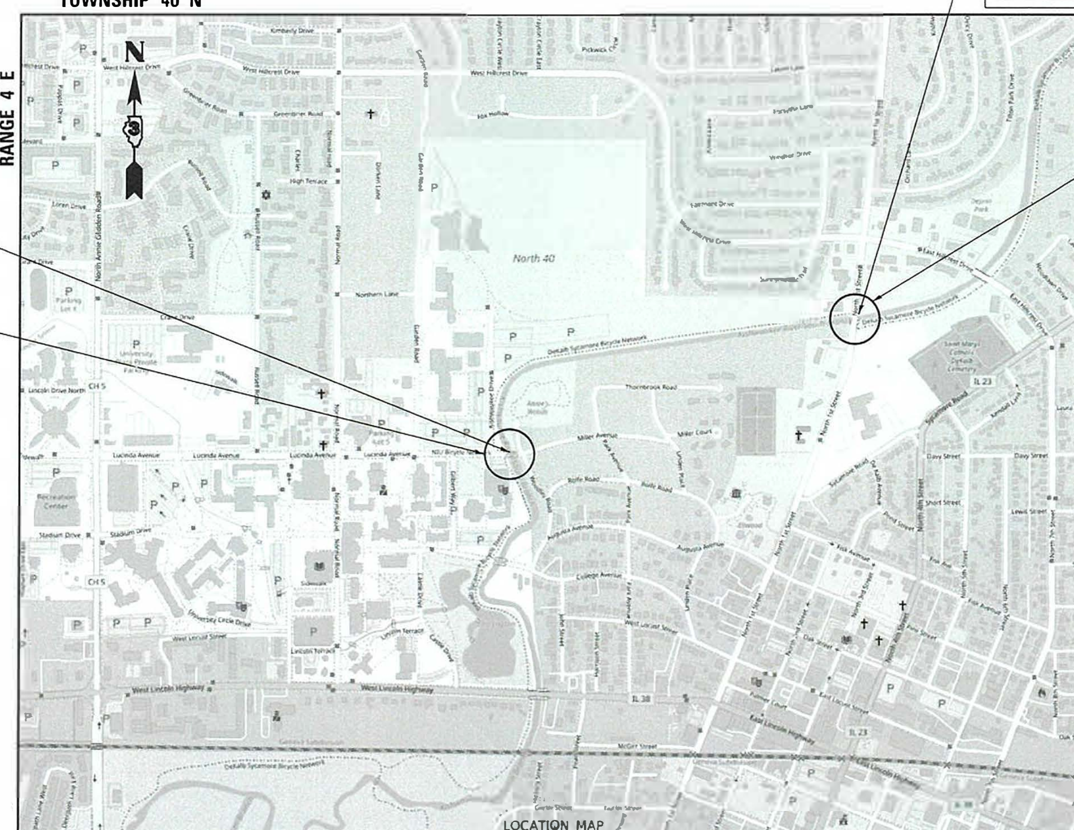
RANGE 4 E

PROPOSED STRUCTURE NO. 019-6108
EXISTING STRUCTURE NO. 019-6000

NORTH FIRST STREET
PROJECT LOCATION
STA 8+50 TO 11+50

PROPOSED STRUCTURE NO. 019-6109
EXISTING STRUCTURE NO. 019-6002

LUCINDA AVENUE
PROJECT LOCATION
STA 8+75 TO 11+58



FUNCTIONAL CLASSIFICATION

	LUCINDA AVE	MAJOR COLLECTOR
	N. FIRST ST.	MINOR ARTERIAL
DESIGN SPEED		35 MPH
CURRENT TRAFFIC		5,900 ADT LUCINDA AVE.
		7,400 ADT N. FIRST ST.
DESIGN TRAFFIC		7,400 ADT LUCINDA AVE.
		9,250 ADT N. FIRST ST.

0 100' 200' 300' — 1" = 100'
0 10' 20' 30' — 1" = 10'
0 50' 100' — 1" = 50'
0 50' 100' — 1" = 40'
0 50' 100' — 1" = 30'
0 50' 100' — 1" = 20'

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 EXCAVATORS
1–800–892–0123
OR 811

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

CONTRACT NO. 87779

GROSS AND NET LENGTH LUCINDA AVE. = 283 FT. = 0.054 MILE
GROSS AND NET LENGTH N. FIRST ST. = 290 FT. = 0.055 MILE

CITY OF DEKALB

APPROVED 4-8-2022

CITY ENGINEER

ILLINOIS DEPARTMENT OF TRANSPORTATION

PASSED APRIL 14, 2022

DISTRICT THREE ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review APRIL 14, 2022

REGION TWO ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LICENSED STRUCTURAL ENGINEER
IAN P. NILAUSEN
081-008439
STATE OF ILLINOIS
EXPIRES: 11/30/22

LICENSED PROFESSIONAL ENGINEER
JEFFREY A. MEINOL
062-058021
OF ILLINOIS
EXPIRES: 11/30/23

Hampton, Lenzini and Renwick, Inc.
Civil & Structural Engineers . Land Surveyors . Environmental Services
HLR ELGIN . SPRINGFIELD . CRYSTAL LAKE . MT CARMEL
www.hlrengineering.com
184.000959 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

PROJECT NUMBER: 20.0251.120 | DATE: 04/08/2022

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, & LEGEND
3	GENERAL NOTES
4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS LUCINDA AVENUE
6-8	SCHEDULE OF QUANTITIES LUCINDA AVENUE
9	ALIGNMENT, TIES, AND BENCHMARKS LUCINDA AVENUE
10	REMOVAL PLAN LUCINDA AVENUE
11	PLAN AND PROFILE LUCINDA AVENUE
12-14	DETOUR PLAN LUCINDA AVENUE
15-16	EROSION AND SEDIMENT CONTROL PLANS LUCINDA AVENUE
17-19	EROSION AND SEDIMENT CONTROL DETAILS
20	INTERSECTION DETAIL LUCINDA AVE AND WOODLEY AVE
21	PAVEMENT MARKING AND SIGNING PLAN LUCINDA AVENUE
22	LANDSCAPE PLANS LUCINDA AVENUE
23-56	STRUCTURAL BRIDGE PLANS LUCINDA
57	WETLAND IMPACT DETAIL LUCINDA AVENUE
58	TYPICAL SECTIONS N FIRST STREET
59-61	SCHEDULE OF QUANTITIES N FIRST STREET
62	ALIGNMENT, TIES, AND BENCHMARKS N FIRST STREET
63	ALIGNMENT, COORDINATES BIKE PATH
64	REMOVAL PLAN N FIRST STREET
65	PLAN AND PROFILE N FIRST STREET
66	PLAN AND PROFILE BIKE PATH
67-69	DETOUR PLAN N FIRST STREET
70-71	EROSION AND SEDIMENT CONTROL PLANS N FIRST STREET
72	PAVEMENT MARKING AND SIGNING PLAN N FIRST STREET
73	LANDSCAPE PLANS N FIRST STREET
74-111	STRUCTURAL BRIDGE PLANS N FIRST STREET
112-118	STRUCTURAL SOLDIER WALL PLANS N FIRST STREET
119	WETLAND IMPACT DETAIL N FIRST STREET
120-128	CROSS SECTIONS BIKE PATH
129-131	CITY OF DEKALB DETAILS
132-133	IDOT DISTRICT 3 STANDARDS

HIGHWAY STANDARDS

STATEWIDE STANDARDS

Number	Description
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-03	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
602301-04	INLET - TYPE A
602401-07	PRECAST MANHOLE TYPE A 4' DIAMETER
602402-03	PRECAST MANHOLE TYPE A 5' DIAMETER
604001-05	FRAME AND LIDS TYPE 1
604051-04	FRAME AND GRATE TYPE 11
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTE
701901-08	TRAFFIC CONTROL DEVICES

DISTRICT 3 STANDARDS

Number	Description
251-2	DETAIL OF EROSION CONTROL BLANKET LINING AROUND END SECTION
424-29	ADA SIDEWALK ACCESSIBILITY RAMP DETAIL
780-3	TYPICAL SPACING DETAIL FOR CROSSWALKS AND STOP BARS

MODEL: Default
FILE NAME: P:\2020\20025\Lucinda Avenue\Cad\02 Design\CADD Sheets\202251-sht-index.dgn

HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE AND N FIRST STREET
GENERAL NOTES

SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	2
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

ALL WORK SHALL BE IN ACCORDANCE WITH THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED JANUARY 1, 2022, (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS); THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," ADOPTED JANUARY 1, 2022; "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS"; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE DETAILS IN THE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

THE CONTRACTOR SHALL COOPERATE WITH THE CITY OF DEKALB IF ANY MUNICIPAL UTILITY IMPROVEMENTS ARE REQUIRED WITHIN THE DURATION OF THE CONTRACT.

FORTY-EIGHT HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) TO HAVE THE LOCATION OF EXISTING UTILITES STAKED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT OR PROTECTION IS NECESSARY.

THE LOCATION ON THE PLANS OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC AND PRIVATE UTILITIES IS APPROXIMATE AND THEIR EXACT LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.

WHENEVER ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS GENERATED FROM CONSTRUCTION OPERATIONS.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN IN AN OPERATING CONDITION TEMPORARY OUTLETS AND CONNECTIONS FOR ALL DRAINS, SEWERS AND CATCH BASINS.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR HIS/HER WORK. ANY WORK THAT IS VANDALIZED OR OTHERWISE DAMAGED AND JUDGED UNACCEPTABLE BY THE ENGINEER SHALL BE REMOVED AND REPLACED.

ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE “ILLINOIS URBAN MANUAL.”

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND APPROVED PRIOR TO WORK COMMENCING.

THE CONTRACTOR SHALL PREVENT SILT FROM ENTERING THE DOWNSTREAM STORM WATER CONVEYANCE SYSTEM BY INSTALLING INLET FILTERS IN ALL EXISTING AND NEW OPEN GRATE STRUCTURES.

ANY SOIL EROSION OR SEDIMENT CONTROL MEASURES WHICH ARE NOT OUTLINED IN THE PLANS BUT ARE DEEMED NECESSARY BY THE ENGINEER DURING CONSTRUCTION SHALL BE IMPLEMENTED BY THE CONTRACTOR.

ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE INSPECTED AND CLEANED OF SEDIMENT AND DEBRIS AT MINIMUM ON A WEEKLY BASIS AND WITHIN 24 HOURS OF EACH ONE-HALF-INCH OR GREATER RAINFALL EVENT.

NO TRACKING OF DIRT OR DEBRIS ONTO PUBLIC STREETS SHALL BE ALLOWED. IF DIRT IS INADVERTENTLY TRACKED ONTO A STREET, IT SHALL BE REMOVED WITHIN 2 HOURS OF SAID TRACKING.

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

ALL ELEVATIONS ARE ON AN ASSUMED LOCAL DATUM.

ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT

STRUCTURE LOCATIONS GIVEN ON THE PLANS ARE AS FOLLOWS: A) FOR STRUCTURES FALLING IN THE CURB AND GUTTER - TO THE EDGE OF PAVEMENT. B) FOR OTHER LOCATIONS - TO THE CENTER OF THE STRUCTURE

FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION AND CROSS SLOPE OF THE AREA IN WHICH THEY ARE LOCATED.

THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK PRIOR TO PLACING ANY AGGREGATE SUBBASE MATERIAL.

AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED, AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

BACKFILLING STORM SEWER CONSTRUCTED UNDER THE ROADWAY SPECIFIED UNDER ART. 550.07(b, c) OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED.

CURING AND PROTECTION OF ALL CONCRETE PAVEMENT, SIDEWALK, CURB, AND COMBINATION CURB AND GUTTER, SHALL BE APPLIED ACCORDING TO THE ENGINEER AND IN ACCORDANCE WITH ARTICLE 1020.13 (A) AND ARTICLE 1020.13 (C). MEMBRANE CURING COMPOUND SHALL BE TYPE III (WHITE-PIGMENTED).

SIDEWALK REMOVAL SHALL BE TO THE NEAREST EXISTING JOINT OR AS DIRECTED BY THE ENGINEER. JOINTS SHALL BE SAW CUT TO FULL DEPTH PRIOR TO REMOVAL.

HAMPTON, LENZINI AND RENWICK, INC.
360 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE AND N FIRST STREET
GENERAL NOTES

SCALE: NONE | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	3
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: P:\2020\20251\Lucinda Avenue\Cad\02 Design\CADD Sheets\20251-sht-general notes.dgn

SUMMARY OF QUANTITIES

	ITEM NO.	ITEM	CONSTRUCTION TYPE CODE 0010 UNIT	TOTAL	LUCINDA AVE.	N. 1ST ST.
*	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	96	0	96
	20200100	EARTH EXCAVATION	CU YD	600	100	500
	20300100	CHANNEL EXCAVATION	CU YD	1141	324	817
	20800150	TRENCH BACKFILL	CU YD	90	70	20
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2844	402	2442
^	21301052	EXPLORATION TRENCH 52' DEPTH	FOOT	50	25	25
	25000110	SEEDING, CLASS 1A	ACRE	0.5	0.1	0.4
	25000312	SEEDING, CLASS 4A	ACRE	0.2	0	0.2
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	46	11	35
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	46	11	35
	28000400	PERIMETER EROSION BARRIER	FOOT	957	252	705
	28000510	INLET FILTERS	EACH	12	8	4
	28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	2844	402	2442
^	28100107	STONE RIPRAP, CLASS A4	SQ YD	1653	721	932
	28200200	FILTER FABRIC	SQ YD	1653	721	932
	31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	1419	887	532
	31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	351	0	351
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	398	200	198
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	911	547	364
	40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	195	99	96
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	6116	1853	4263
	42400800	DETECTABLE WARNINGS	SQ FT	40	24	16
	44000100	PAVEMENT REMOVAL	SQ YD	2150	1138	1012
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	80	0	80
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	876	298	578
	44000600	SIDEWALK REMOVAL	SQ FT	5910	2217	3693
^	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	2	1	1
	50104400	CONCRETE HEADWALL REMOVAL	EACH	1	0	1
	50200100	STRUCTURE EXCAVATION	CU YD	766	185	581
	50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1	0	1
	50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1	0	1
	50300100	FLOOR DRAINS	EACH	14	8	6
	50300225	CONCRETE STRUCTURES	CU YD	406.1	117.6	288.5
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	735.9	303.7	432.2
	50300260	BRIDGE DECK GROOVING	SQ YD	1337	564	773
	50300280	CONCRETE ENCASEMENT	CU YD	74.2	28	46.2
^	50300285	FORM LINER TEXTURED SURFACE	SQ FT	2364	480	1884
^	50300300	PROTECTIVE COAT	SQ YD	4041	1146	2895
	50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	338.9	142.8	196.1
	50500505	STUD SHEAR CONNECTORS	EACH	1876	0	1876
	50600205	REINFORCEMENT BARS, EPOXY COATED	POUND	482390	198710	283680
*	50901720	BICYCLE RAILING	FOOT	682	0	682
	51201900	FURNISHING STEEL PILES HP14X89	FOOT	2807	1117	1690
	51202305	DRIVING PILES	FOOT	2807	1117	1690
	51203900	TEST PILE STEEL HP14X89	EACH	8	4	4
	51204650	PILE SHOES	EACH	52	30	22
	51500100	NAME PLATES	EACH	2	1	1
	52200105	FURNISHING SOLDIER PILES (W SECTION)	FOOT	1729	0	1729
	52200200	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU FT	8260	0	8260
	52200250	UNTREATED TIMBER LAGGING	SQ FT	1561	0	1561
	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12'	EACH	1	1	0

SUMMARY OF QUANTITIES

	ITEM NO.	ITEM	CONSTRUCTION TYPE CODE 0010 UNIT	TOTAL	LUCINDA AVE.	N. 1ST ST.
	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	0	1
	54214521	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 36"	EACH	1	0	1
	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	28	0	28
	550A5300	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 36"	FOOT	80	0	80
	55100400	STORM SEWER REMOVAL 10"	FOOT	36	36	0
	55100700	STORM SEWER REMOVAL 15"	FOOT	140	0	140
	55101600	STORM SEWER REMOVAL 36"	FOOT	88	0	88
	56105100	WATER VALVES 10"	EACH	2	2	0
	58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	714	128	586
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	319	66	253
	60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	583	154	429
	60207905	CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE	EACH	1	1	0
	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	0	1
	60248700	VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2	0
	60500040	REMOVING MANHOLES	EACH	1	0	1
	60500060	REMOVING INLETS	EACH	2	1	1
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	435	173	262
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	300	0	300
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	0	1
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0	1
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0	1
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	3	0	3
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	3	3
	67100100	MOBILIZATION	L SUM	1	0.5	0.5
*	78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	62.4	0	62.4
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1820	420	1400
*	78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	260	260	0
*	78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	264	264	0
*	78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	45	45	0
^	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5	0.5
^	Z0016702	DETOUR SIGNING	L SUM	1	0.5	0.5
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	273	126	147
^	Z0056608	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 12"	FOOT	36	36	0
*	Z0057300	SANITARY SEWER 18"	FOOT	40	40	0
*	X0322786	SANITARY SEWER TESTING	L SUM	1	0.5	0.5
*	X0323814	SANITARY SEWER REMOVAL, 18"	FOOT	44	44	0
*	X0327679	STEEL CASING PIPE AUGERED AND JACKED 30"	FOOT	165	165	0
*	X1200200	DUCTILE IRON WATER MAIN, 10" DIAMETER, RESTRAINED JOINT PIPE	FOOT	280	280	0
	X1200210	FILTER BAGS	CU YD	20	20	0
*	X1200288	SANITARY SEWER BYPASS PUMPING	L SUM	1	0.5	0.5
^	X4240440	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH, SPECIAL	SQ FT	5451	0	5451
* ^	X5090850	ORNAMENTAL RAILING	FOOT	216	216	0
*	X5610710	WATER MAIN REMOVAL, 10"	FOOT	235	235	0
*	X5630710	CONNECTION TO EXISTING WATER MAIN 10"	EACH	2	2	0
	X6022810	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	0
	X6022820	MANHOLES, SANITARY, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	0
*	X6026051	SANITARY MANHOLES TO BE RECONSTRUCTED	EACH	1	1	0
	XX006821	CONCRETE TRUCK WASHOUT	LSUM	1	0.5	0.5
* ^	XX009532	SANITARY FORCE MAIN REMOVAL, 20"	FOOT	66	0	66
*	XX009533	SANITARY FORCE MAIN, 20"	FOOT	72	0	72

^ SEE SPECIAL PROVISIONS

MODEL: Default
FILE NAME: P:\2022\22002501\Lucinda Avenue\Cad\02 Design\CAD Sheets\220025-sht-summary.dgn

HAMPTON, LENZINI AND RENWICK, INC.
315 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.002359

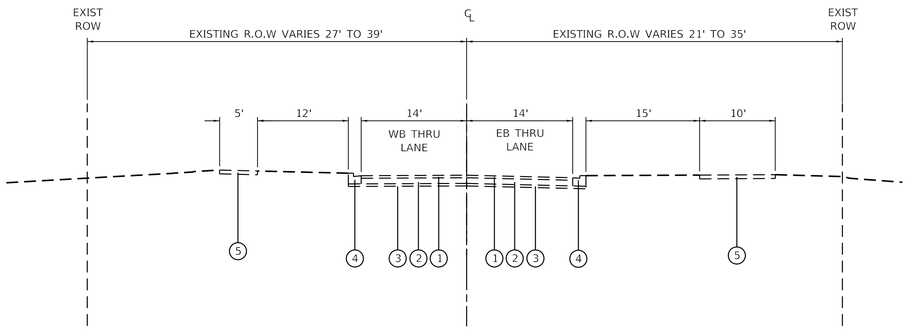
USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE AND N FIRST STREET
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

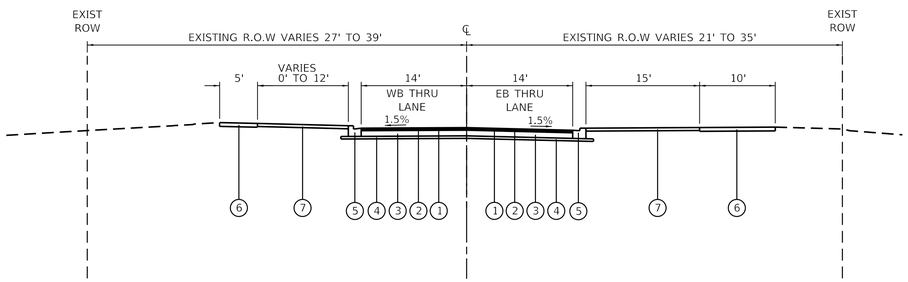
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	4
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			



TYPICAL EXISTING CROSS SECTION – LUCINDA AVENUE
STA. 8+75 TO STA. 9+49

TYPICAL EXISTING CROSS SECTION LEGEND

1. EXISTING BITUMINOUS SURFACE 4"
2. EXISTING BITUMINOUS BASE COURSE 9"
3. EXISTING SUB-BASE GRANULAR MATERIAL 4"
4. EXISTING CURB AND GUTTER, TYPE B-6.12
5. EXISTING SIDEWALK



TYPICAL PROPOSED CROSS SECTION – LUCINDA AVENUE
STA. 8+75 TO STA. 9+15.45

TYPICAL PROPOSED CROSS SECTION LEGEND

1. PROPOSED HOT MIX ASPHALT SURFACE COURSE, 2"
2. PROPOSED HOT MIX ASPHALT BINDER COURSE, 2"
3. PROPOSED HOT MIX ASPHALT BASE COURSE, 9"
4. PROPOSED SUB-BASE GRANULAR MATERIAL 4"
5. PROPOSED CURB AND GUTTER, TYPE B-6.12
6. PROPOSED SIDEWALK, 5"
7. PROPOSED TOPSOIL, 4" AND SEEDING, CL 1A

PAVEMENT DESIGN

DESIGN PERIOD: 20 YEARS (2042)

STRUCTURAL DESIGN TRAFFIC:
ADT: 7,400
DHV: 562 P + 30 SU/MU

ROADWAY CLASSIFICATION
MAJOR COLLECTOR

HMA MIXTURE REQUIREMENT TABLE

LOCATIONS:	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA BINDER	HMA SURFACE	HMA DRIVEWAY 4" BOTTOM LIFT	HMA DRIVEWAY 4" TOP LIFT
BINDER GRADE (PG):	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 19.0	IL 9.5	IL 19.0	IL 9.5
FRICTION AGGREGATE:		MIXTURE D		
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA	QCQA	QCQA
SUBLOT SIZE:	N/A	N/A	N/A	N/A
DENSITY TEST METHOD:	LR1030-2	LR1030-2	LR1030-2	LR1030-2
MATERIAL TRANSFER DEVICE (REQUIRED):	NO	NO	NO	NO

MODEL: Default
FILE NAME: P:\2020\20025\Lucinda Avenue\Cad\02 Design\CADD Sheets\20025-sht-typical Lucinda.dgn

HAMPTON, LENZINI AND RENWICK, INC.
385 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE
TYPICAL SECTIONS

SCALE: NONE | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	5
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

21101615 TOPSOIL FURNISH AND PLACE, 4"
25000110 SEEDING, CLASS 1A
25000400 NITROGEN FERTILIZER NUTRIENT
25000600 POTASSIUM FERTILIZER NUTRIENT
28001100 TEMPORARY EROSION CONTROL BLANKET

LOCATION	TOPSOIL FURNISH AND PLACE, 4" (SQ YD)	SEEDING, CLASS 1A (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	TEMPORARY EROSION CONTROL BLANKET (SQ YD)
STA. 8+51 to STA. 9+08; LT PKWY.	58	0.012	2	2	58
STA. 8+58 to STA. 9+33; LT OUTSIDE	79	0.016	2	2	79
STA. 8+75 to STA. 9+25; RT PKWY.	78	0.016	2	2	78
STA. 9+54 to STA. 9+60; RT	11	0.002	1	1	11
WOODLEY AVE. NORTH PKWY.	33	0.007	1	1	33
WOODLEY AVE. NORTH OUTSIDE	53	0.011	1	1	53
WOODLEY AVE. SOUTH	90	0.019	2	2	90
TOTAL	**402**	**0.083**	**11**	**11**	**402**

44000100 PAVEMENT REMOVAL
44000500 COMBINATION CURB AND GUTTER REMOVAL
44000600 SIDEWALK REMOVAL

LOCATION	PAVEMENT REMOVAL (SQ YD)	COMBINATION CURB AND GUTTER REMOVAL (FOOT)	SIDEWALK REMOVAL (SQ FT)
EAST OF BRIDGE	240		
WEST OF BRIDGE	898		
STA. 8+75 to STA. 9+44; LT		69	323
STA. 8+75 to STA. 9+58; RT		83	1321
WOODLEY AVE. NORTHWEST		86	372
WOODLEY AVE. SOUTHWEST		60	201
TOTAL	**1138**	**298**	**2217**

28000400 PERIMETER EROSION BARRIER
28000510 INLET FILTERS

LOCATION	PERIMETER EROSION BARRIER (FOOT)	INLET FILTERS (EACH)
NORTHWEST QUADRANT	80	
SOUTHWEST QUADRANT	32	
NORTHEAST QUADRANT	40	
SOUTHEAST QUADRANT	100	
STA. 8+57; RT		1
STA. 8+57; LT		2
STA. 10+89; RT		1
STA. 11+87; LT		1
STA. 11+87; RT		1
WOODLEY AVE. NORTH		2
TOTAL	**252**	**8**

55100400 STORM SEWER REMOVAL 10"
60500060 REMOVING INLETS
X0323814 SANITARY SEWER REMOVAL, 18"
X5610710 WATER MAIN REMOVAL, 10"
X6026051 SANITARY MANHOLES TO BE RECONSTRUCTED

LOCATION	STORM SEWER REMOVAL 10" (FOOT)	REMOVING INLETS (EACH)	SANITARY SEWER REMOVAL, 18" (FOOT)	WATER MAIN REMOVAL, 10" (FOOT)	SANITARY MANHOLES TO BE RECONSTRUCTED (EACH)
STA. 8+85 to STA. 9+29; 10' LT			44		
STA. 9+30; 10' LT					1
STA. 9+05 to STA. 11+20				235	
STA. 10+64 to STA. 10+88; RT	36				
STA. 10+89; 26' RT		1			
TOTAL	**36**	**1**	**44**	**235**	**1**

MODEL: Default
FILE NAME: P:\2020\20025\1\Lucinda Avenue\Cad\02 Design\CADD Sheets\200251-slnt-schedule.dgn

HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP: 184.000959

USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE
SCHEDULE OF QUANTITIES

SCALE: NONE | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	6
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

78001110 PAINT PAVEMENT MARKING - LINE 4"
78001130 PAINT PAVEMENT MARKING - LINE 6"
78001150 PAINT PAVEMENT MARKING - LINE 12"
78001180 PAINT PAVEMENT MARKING - LINE 24"

LOCATION	PAINT PAVEMENT MARKING - LINE 4" (FOOT)	PAINT PAVEMENT MARKING - LINE 6" (FOOT)	PAINT PAVEMENT MARKING - LINE 12" (FOOT)	PAINT PAVEMENT MARKING - LINE 24" (FOOT)
STA. 8+60 to STA. 10+70 CL	420			
WOODLEY AVE. NORTH CROSSWALK		73	72	
WOODLEY AVE. EAST CROSSWALK		67	72	
WOODLEY AVE. SOUTH CROSSWALK		120	120	
WOODLEY AVE. NORTH STOP BAR				15
WOODLEY AVE. SOUTH STOP BAR				30
TOTAL	**420**	**260**	**264**	**45**

54213657 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"
60207905 CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE
Z0056668 STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 12"

LOCATION	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12" (EACH)	CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE (EACH)	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 12" (FOOT)
STA. 10+65.0; 52.0' RT	1		
CB-1 TO FES-1			36
STA. 10+92.1; 27.0' RT		1	
TOTAL	**1**	**1**	**36**

56105100 WATER VALVES 10"
60248700 VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID
X0327679 STEEL CASING PIPE AUGERED AND JACKED 30"
X1200200 DUCTILE IRON WATER MAIN, 10" DIAMETER, RESTRAINED JOINT PIPE

LOCATION	WATER VALVES 10" (EACH)	VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID (EACH)	STEEL CASING PIPE AUGERED AND JACKED 30" (FOOT)	DUCTILE IRON WATER MAIN, 10" DIAMETER, RESTRAINED JOINT PIPE (FOOT)
STA. 9+07; 20' RT	1	1		
STA. 11+20; 23' LT	1	1		
STA. 9+40 to STA. 11+05 RT			165	
VV-1 to VV-2				280
TOTAL	**2**	**2**	**165**	**280**

60603800 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

STATION BEGIN	STATION END	LENGTH (FOOT)
8+75.00 LT	9+08.45 LT	33.45
8+75.00 RT	9+22.52 RT	47.52
10+62.49 LT	WOODLEY LT	62.79
10+85.75 RT	WOODLEY RT	28.70
	TOTAL	**172.46**

42400200 PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH

STATION BEGIN	STATION END	AREA (SQ FT)
8+75.00 LT	9+33.85 LT	232
8+75.00 RT	9+54.84 RT	1193
10+49.16 LT	WOODLEY LT	310
10+72.62 RT	WOODLEY RT	118
	TOTAL	**1853**

MODEL: Default
FILE NAME: P:\2020\20025\Lucinda Avenue\Cad\02 Design\CADD Sheets\20025-sht-schedule.dgn

HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

USER NAME = steves | DESIGNED - | REVISED -
DRAWN - | REVISED -
PLOT SCALE = 1.0000 ' / in. | CHECKED - | REVISED -
PLOT DATE = 5/13/2022 | DATE - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE
SCHEDULE OF QUANTITIES

SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	7
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

Z0057300 SANITARY SEWER 18"
X6022810 MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID
X6022820 MANHOLES, SANITARY, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID
X6026051 SANITARY MANHOLES TO BE RECONSTRUCTED

LOCATION	SANITARY SEWER 18" (FOOT)	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID (EACH)	MANHOLES, SANITARY, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID (EACH)	SANITARY MANHOLES TO BE RECONSTRUCTED (EACH)
STA. 8+85; 10' LT		1		
STA. 9+24; 26' LT			1	
SMH-1 to SMH-2	40			
STA. 9+30; 10' LT				1
TOTAL	**40**	**1**	**1**	**1**

31101200 SUBBASE GRANULAR MATERIAL, TYPE B 4"
40600290 BITUMINOUS MATERIALS (TACK COAT)
40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50
40604060 HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50

LOCATION	SUBBASE GRANULAR MATERIAL, TYPE B 4" (SQ YD)	BITUMINOUS MATERIALS (TACK COAT) (POUND)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (TON)	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 (TON)
WEST OF BRIDGE	126	28	78	14
EAST OF BRIDGE	761	172	469	85
TOTAL	**887**	**200**	**547**	**99**

20200100 EARTH EXCAVATION

EARTHWORK SUMMARY				
LOCATION	EARTH EXCAVATION (CU YD)	EXCAVATION AVAILABLE FOR EMBANKMENT ADJUSTED FOR SHRINKAGE 15% (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
LUCINDA AVENUE				
Sidewalk Grading	0.0	0.0	20.0	-20.0
PROJECT TOTAL	0	0	20	-20

MODEL: Default
FILE NAME: P:\2020\20025\Lucinda Avenue\Cad\02 Design\CADD Sheets\20025-sht-schedule.dgn

HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE
SCHEDULE OF QUANTITIES

SCALE: NONE | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	8
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

BENCHMARKS

BM4
SQUARE ON LIGHT POLE BASE
SOUTH SIDE OF LUCINDA AVE.
AT KISHWAUKEE DR.
ELEV=844.736

BM5
SQUARE ON LIGHT POLE BASE
SOUTH SIDE OF LUCINDA AVE.
JUST WEST OF BRIDGE
ELEV=845.678

BM6
SOUTH BOLT OF HYDRANT
AT SOUTHEAST CORNER OF
MILLER AVE. AND WOODLEY AVE.
ELEV=845.045

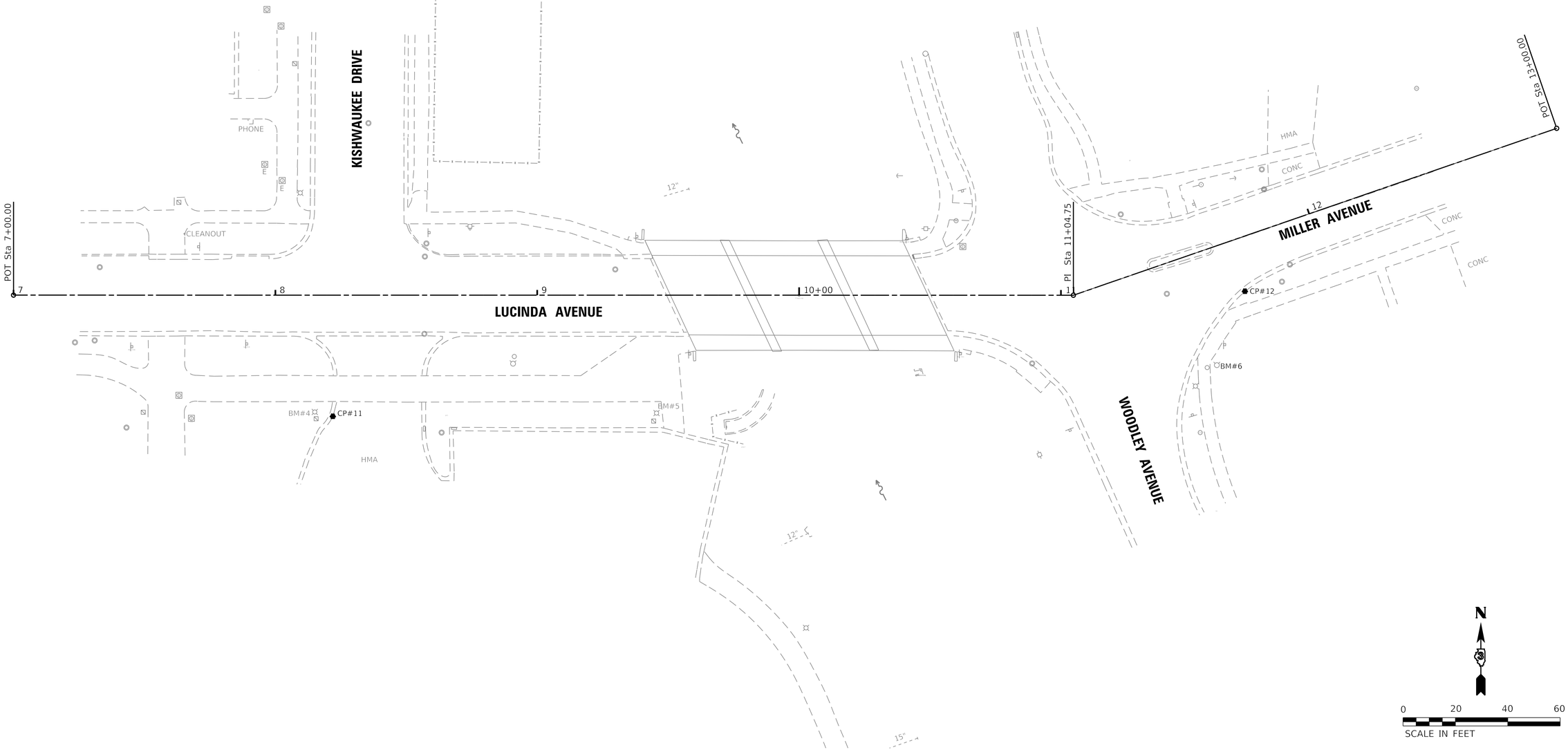
CONTROL POINTS

CP#11
MAG NAIL IN CURB
N=1,919,659.600
E=867,872.604
ELEV=843.46

CP#12
MAG NAIL IN CURB
N=1,919,707.372
E=868,220.905
ELEV=842.08

CP#13
MAG NAIL IN PATH
N=1,919,878.440
E=867,912.879
ELEV=844.25

ALIGNMENT COORDINATES - LUCINDA AVENUE			
ARLENE	STATION	NORTHING	EASTING
POB	7+00.00 R1	1919705.897	867750.662
PI	11+04.75 R1	1919705.856	868155.407
POE	13+00.00 R1	1919769.607	868339.961



MODEL: Default
FILE NAME: P:\2020\20251\Lucinda Avenue\Cadd\02 Design\CADD Sheets\20251-sht-ATB Lucinda.dgn

HAMPTON, LENZINI AND RENWICK, INC.
360 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE
ALIGNMENT, CONTROL AND BENCHMARKS

SCALE: 1"=20' | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	9
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			

IMPROVEMENT BEGINS
STATION 8+75

EXIST R.O.W.

POT Sta 7+00.00

REMOVE EXISTING SIDEWALK

REMOVE BITUMINOUS ASPHALT 13"
REMOVE SUB-BASE GRANULAR MATERIAL 4"

REMOVE EXISTING CURB AND GUTTER

REMOVE EXISTING 10" WATERMAIN

RECONSTRUCT SMH

REMOVE EXISTING
CURB AND GUTTER

REMOVE THREE SPAN
REINFORCED CONCRETE
SLAB BRIDGE

REMOVE EXISTING CURB
AND GUTTER

REMOVE EXISTING SIDEWALK

REMOVE EXISTING CURB AND GUTTER

REMOVE EXISTING SIDEWALK

REMOVE BITUMINOUS ASPHALT 13"
REMOVE SUB-BASE GRANULAR MATERIAL 4"

REMOVE EXISTING SIDEWALK

SOUTH BRANCH

KISHWAUKEE RIVER

POT Sta 13+00.00

EXIST R.O.W.

EXIST R.O.W.

IMPROVEMENT ENDS
STATION 11+58

PHONE
CLEANOUT
HMA
CONC
BM#4
BM#3

2603
SANITARY MH, 5' DIA.
STA. 9+30; 10' LT
RIM=843.82
INV=833.62 (W)
INV=833.52 (N,S)

2246
INLET, 2' DIA.
STA. 10+89; 26' RT
RIM=843.24
INV=839.84

2162
VALVE VAULT, 4' DIA.
STA. 11+39; 11' RT
RIM=842.49
INV=838.9 (T/P)

2478
VALVE VAULT, 4' DIA.
STA. 11+32; 23' LT
RIM=842.26
INV=838.0 (T/P)

2388
CB, 2' SQUARE
STA. 10+48; 92' LT
RIM=841.34
INV=837.44

2058
MH, 4' DIA.
STA. 11+82: 21' RT
RIM=842.51
INV=836.71 (W)
INV=837.51 (NE)

2646
MH, 4' DIA.
STA. 8+58: 20' LT
RIM=842.95
INV=837.15 (E,W)
INV=839.05 (S)

NOTE:
SEE SHEETS 6 THROUGH 8
FOR QUANTITY SCHEDULES

N

0 20 40 60
SCALE IN FEET

MODEL: Default
FILE NAME: P:\2020\20251\Lucinda Avenue\Cad\02 Design\CADD Sheets\20251-sht-removal Lucinda.dgn

HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE
REMOVAL PLAN

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	10
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

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

PROFILE
SURVEYED
PLOTTED
AUTHORIZED BY
DESIGN CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.

MODEL: Default
FILE NAME: P:\2020\20025\Lucinda Avenue\Cadd02 Design\CADD_Sheets\200251-sht-Phprf Lucinda.dgn

KISHWAUKEE DR
PHONE
30"
IMPROVEMENT BEGINS
STATION 8+75
EXIST R.O.W.
POT Sta 7+00.00
39' R.O.W.
35' EXIST.
CLEANOUT
12"
18"
10"
7
8
LUCINDA AVE
STA. 10+00
CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE
3 SPANS: 33'-3", 41'-6", 33'-3"
30' ROADWAY; SKEW = 25°
SOUTH BRANCH
PROPOSED HMA PAVEMENT
PROPOSED CURB AND GUTTER, TYPE B-6.12
SMH-2
SMH-1
65°
15'
11'
9
10+00
VV-1
PROPOSED CURB AND GUTTER, TYPE B-6.12
PROPOSED BORE PIT
BM#4
HMA
36"
PROPOSED 10" WATERMAIN, RESTRAINED JOINT PIPE IN 30" CASING
20' R
50' R
P-1
FES-1
KISHWAUKEE RIVER
PROPOSED CURB AND GUTTER, TYPE B-6.12
EXISTING CURB AND GUTTER
PROPOSED HMA PAVEMENT
EXIST R.O.W.
POT Sta 13+00.00
MILLER AVE
31.6'
31.9'
R.O.W.
CONC
VV-2
PT Sta 11+04.75
IMPROVEMENT ENDS
STATION 11+58
PROPOSED BORE PIT
WOODLEY AVE
26.5'
EXIST R.O.W.
EXIST R.O.W.
N
0 20 40 60
SCALE IN FEET

NOTE
INSTALL A PERMANENT TAP ON EACH SIDE OF VALVES 1 AND 2 IN THE VAULT TO ALLOW FOR LEAK TESTING AND SAMPLING.

VV-1
VALVE VAULT, 4' DIA.
STA. 9+07; 20' RT
RIM=844.00
T/P=839.0

VV-2
VALVE VAULT, 4' DIA.
STA. 11+20; 23' LT
RIM=842.10
T/P=838.0

SMH-1
SANITARY MH, 4' DIA.
STA. 8+85; 10' LT
RIM=843.25
INV=834.10

SMH-2
SANITARY MH, 5' DIA.
STA. 9+24; 26' LT
RIM=844.90
INV=833.50 (N,S)
INV=833.60 (W)

CB-1
CATCH BASIN, TY C, 2' DIA.
TY 11 F&G
STA. 10+92.1; 27.0' RT
RIM=843.30
INV=840.81

FES-1
FLARED END SECTION, 12"
STA. 10+65.0; 52.0' RT
INV=840.45

P-1
12" STORM SEWER,
CL A, TY 2, 36' @ 1.0%

P-2
18" SANITARY SEWER,
40' @ 1.0%

EXIST SN 019-6002
STA. 10+00
3 SPAN REINFORCED CONCRETE SLAB BRIDGE ON CONCRETE PILE BENT ABUTMENTS AND PIERS.
101.0' BK-BK, 42.0' 0-0 DECK

855
850
845
840
835
830
825
820
815

K = 43
100.00' V.C.
843.56
-0.64%
-0.40%
+05.00
EL. 843.18
VPI STA. 7+50.00
ELEVATION 843.40
-0.40%
+1.92%
SMH-1
+05.00
EL. 843.94
VV-1
SMH-2
EX. 8" WATER MAIN
EX. 12" STORM SEWER
EX. 18" SANITARY SEWER
PROP. SANITARY SEWER
CHANNEL EXCAVATION
K = 20
100.00' V.C.
100 YR HWE 844.1
30 YR HWE 843.0
+62.00
EL. 845.03
VPI STA. 10+12.00
ELEVATION 845.99
+1.92%
-3.16%
+62.00
EL. 844.41
PROPOSED ℄ GRADE
843.06
EX. 18" STORM SEWER
STONE RIPRAP, CLASS A4
℄ ELEV. 832.9
T/P = 827.0
165'± 30" CASING
9+40
11+05
11+11
T/P = 826.0
PROPOSED 10" WATERMAIN, RESTRAINED JOINT PIPE
* - 1V:2H @ RT. ∠'s

843.40 843.40
843.26 843.20
843.22 843.23
843.87 843.85
844.15 844.80
844.15 845.39
844.11 844.75
843.14 843.21

7+50 8+00 8+50 9+00 9+50 10+00 10+50 11+00

HAMPTON, LENZINI AND RENWICK, INC.
ELGIN · SPRINGFIELD
WOODRIDGE · MT CARMEL
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

USER NAME = steves	DESIGNED - J.W.F.	REVISED -	
	DRAWN - T.W.K.	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - S.W.M.	REVISED -	
PLOT DATE = 5/13/2022	DATE - $DATs	REVISED -	

STATE OF ILLINOIS
CITY OF DEKALB

PLAN AND PROFILE
LUCINDA AVENUE

SCALE: 5V:20H | SHEET 1 OF 1 SHEETS | STA. 7+00 | TO STA. 13+00

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	11
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			

LEGEND

SIGNALIZED INTERSECTION

48"X48" CONSTRUCTION WARNING SIGN, WITH AMBER FLASHING LIGHT NUMBER DENOTES TYPE

M4-9 SERIES DETOUR SIGN WITH ROAD NAME AND DIRECTION PLATES, NUMBER DENOTES TYPE

OTHER DETOUR SIGNS, NUMBER DENOTES TYPE

TYPE III BARRICADE WITH AMBER FLASHING LIGHTS

DETOUR ROUTE

AREA OF CONSTRUCTION

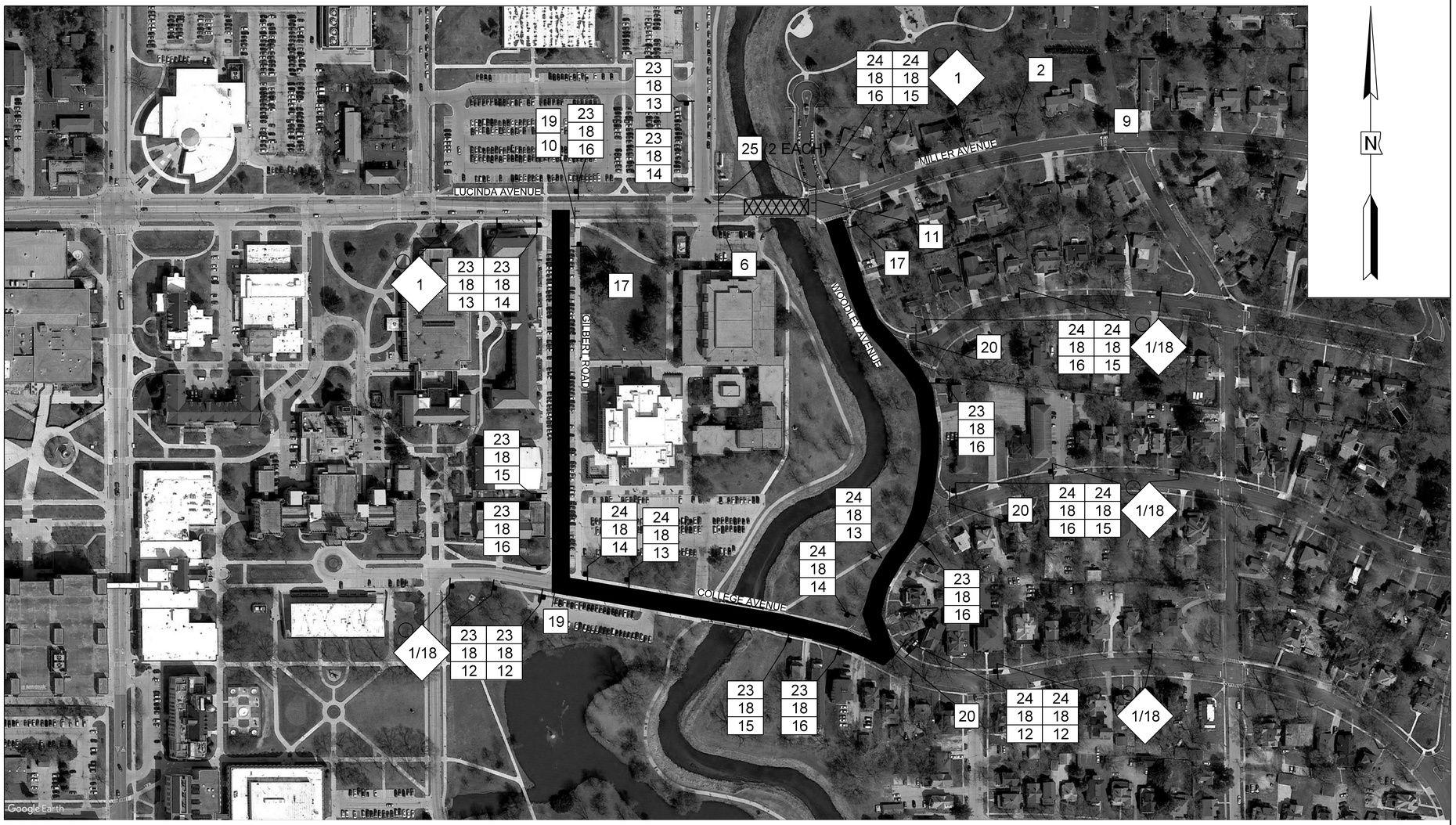
SPECIAL DETOUR NOTES:

1. THE CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO THE DETOUR GENERAL NOTES. SEE SHEET 14 FOR THE DETOUR GENERAL NOTES.

2. SEE SHEET 13 FOR INFORMATION ON THE DESIGN AND LOCATION OF THE DETOUR INFORMATION SIGNS.

3. A MINIMUM OF 20 TYPE III BARRICADES WILL BE NEEDED FOR THIS DETOUR AND ROAD CLOSURE. SEE DETOUR GENERAL NOTE 9.

DETOUR PLAN



MODEL: Default
FILE NAME: P:\2020\20251\Lucinda Avenue\Cad\02 Design\CADD Sheets\20251-sht-detour Lucinda.dgn

HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	USER NAME = steves	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE
DETOUR PLAN

SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	12
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			

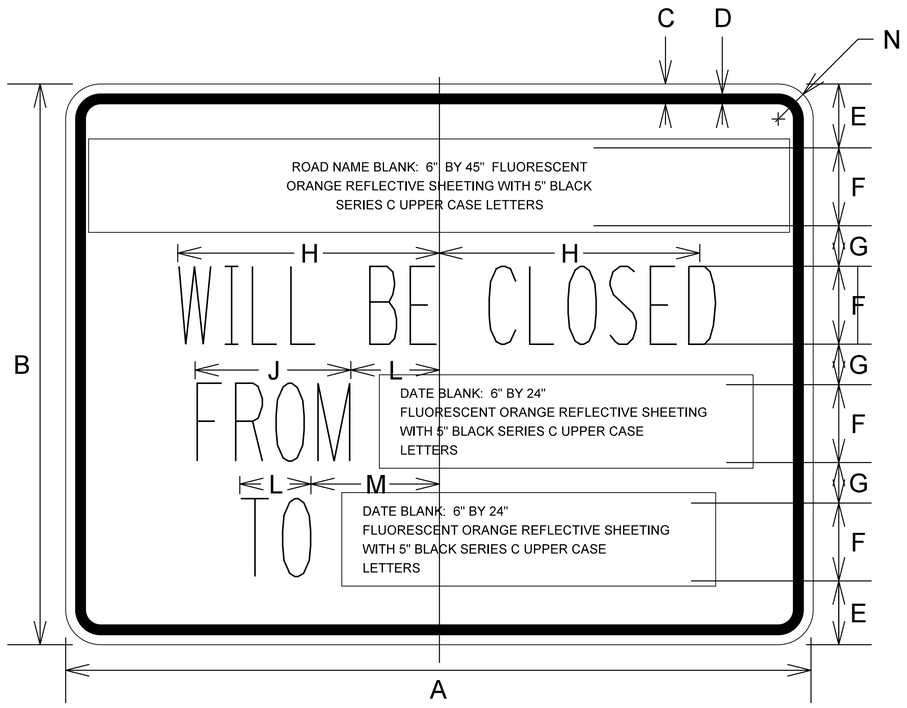
NUMBER OF SIGNS 6



DATES SHOWN ARE FOR EXAMPLE ONLY

NUMBER OF SIGNS ____





NOTE: SIGN SHEETING SHALL BE FLUORESCENT ORANGE WITH 5 INCH (125 mm) BLACK SERIES C LETTERS

DIMENSIONS (ENGLISH)

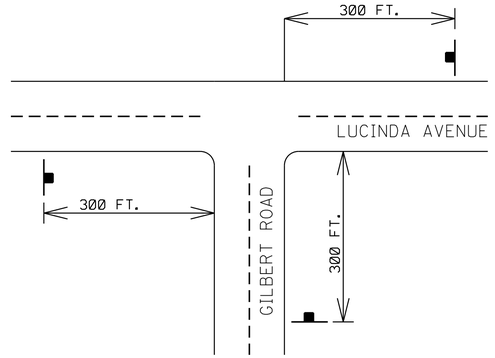
A	48"
B	36"
C	5/8"
D	7/8"
E	4 1/8"
F	5"
G	2 5/8"
H	9 3/4"
J	12"
K	5 1/2"
L	5 1/2"
M	8 1/2"
N	2 1/4"

NOTE:
THESE SIGNS SHALL BE INSTALLED 7-10 CALENDAR DAYS PRIOR TO THE DETOUR AND ROAD CLOSURE. THE SIGNS SHALL BE REMOVED THE DAY THE DETOUR BEGINS.

LOCATIONS OF PRE-DETOUR INFORMATION SIGNS BY INTERSECTION

E.B. LUCINDA AVENUE, WEST OF GILBERT ROAD
W.B. LUCINDA AVENUE, EAST OF GILBERT ROAD
N.B. GILBERT ROAD, SOUTH OF LUCINDA AVENUE
W.B. MILLER AVENUE, EAST OF WOODLEY AVENUE
N.B. WOODLEY AVENUE, NORTH OF MILLER AVENUE
S.B. WOODLEY AVENUE, SOUTH OF MILLER AVENUE

SIGN LAYOUT FOR PRE-DETOUR INFORMATION SIGNS AT THE INTERSECTION OF LUCINDA AVENUE AND GILBERT ROAD.
SIGNS AT MILLER AVENUE AND WOODLEY AVENUE WILL BE INSTALLED IN A SIMILAR FASHION.



MODEL: Default
FILE NAME: P:\2020\20251\Lucinda Avenue\Cadd02 Design\CADD Sheets\20251-sht-detour Lucinda.dgn

HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE
DETOUR PLAN

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	13
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

SIGN NO.	SIGN	SIGN TYPE	QUANTITY
①	DETOUR AHEAD	W20-2 (O) 48	6
②	ROAD CLOSED 500 FT	W20-3 (O) 48	1
③	ROAD CLOSED 1500 FT	W20-3 (O) 48	0
④	ROAD CLOSED AHEAD	W20-3 (O) 48	0
⑤	BARRICADE 500 FT	W21-1100 (O) 48	0
⑥	ROAD CLOSED	R11-2 4830	1
⑦	ROAD CLOSED XX MILE AHEAD LOCAL TRAFFIC ONLY	R11-3 6030	0
⑧	ROAD CLOSED TO THRU TRAFFIC	R11-4 6030	0
⑨	BRIDGE CLOSED XX MILE AHEAD LOCAL TRAFFIC ONLY	R11-3 6030	1
⑩	DETOUR →	M4-10R (O) 4818	1
⑪	← DETOUR	M4-10L (O) 4818	1
⑫	DETOUR ↑	M4-9 (O) 3021	4
⑬	DETOUR ↱	M4-9R (O) 3021	3
⑭	DETOUR →	M4-9R (O) 3021	4
⑮	DETOUR ↰	M4-9L (O) 3021	5
⑯	DETOUR ←	M4-9L (O) 3021	8
⑰	END DETOUR	M4-8a (O) 2418	2
⑱	LUCINDA AVENUE	SPECIAL (O) 9 VARIABLE	29
⑲	E.B. LUCINDA AVENUE CLOSED TO THRU TRAFFIC FOLLOW DETOUR	SPECIAL (O) 6030	2
⑳	W.B. LUCINDA AVENUE CLOSED TO THRU TRAFFIC FOLLOW DETOUR	SPECIAL (O) 6030	3
㉑	NORTH	M3-1 (O) 2412	0
㉒	SOUTH	M3-2 (O) 2412	0
㉓	EAST	M3-3 (O) 2412	13
㉔	WEST	M3-4 (O) 2412	12
㉕	BRIDGE OUT	R11-2 4830	4

DETOUR GENERAL NOTES

1. ALL SIGNING SHALL BE ACCORDING TO THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JAN. 1, 2022", " THE QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES ADOPTED 2016", THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", AND THE CONTRACT SPECIAL PROVISIONS.
2. THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT. THE ENGINEER SHALL DETERMINE THE HOUR OF CLOSURE. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.
3. IF DEEMED NECESSARY BY THE ENGINEER A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR SHALL BE HELD AT LEAST TWO WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT.
4. THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE AND HIS REPRESENTATIVE RESPONSIBLE FOR THE DETOUR SIGNING PRIOR TO THE START OF THE WORK. THE CITY OF DEKALB REPRESENTATIVE FOR THIS DETOUR IS:

   ZAC GILL
   CITY OF DEKALB
   CITY ENGINEER
   164 E. LINCOLN HIGHWAY
   DEKALB, ILLINOIS 60115
   (815) 748-2331

5. IF REQUESTED BY THE CONTRACTOR IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT THE ENGINEER WILL FIELD LOCATE THE POSITIONS OF ANY SIGNS.
6. LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS, WITH THE APPROVAL OF THE ENGINEER.
7. THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED ACCORDING TO THE DETOUR PLAN AND INSPECTED & APPROVED BY THE ENGINEER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS, AND OTHER DEVICES INSTALLED BY HIM/HER ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THE DETOUR IS IN EFFECT.
9. THE TRAFFIC CONTROL SHOWN ON THE DETOUR PLAN IS THE MINIMUM NECESSARY TO ENSURE THIS ROAD CLOSURE. THE CONTRACTOR SHALL MAKE ALL CHANGES IN TRAFFIC CONTROL, INCLUDING ALL ADDITIONAL SIGNAGE AND/OR DEVICES, THAT ARE DEEMED NECESSARY BY THE ENGINEER. ADDITIONS AND DELETIONS OF TRAFFIC CONTROL FOR THIS DETOUR SHALL BE CONSIDERED INCLUDED IN THE PAY ITEM “TRAFFIC CONTROL AND PROTECTION”.
10. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE DETOUR IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR, IN A MANNER APPROVED BY THE ENGINEER.
11. ALL DETOUR SIGNING SHALL BE POST MOUNTED IF THE ROAD CLOSURE IS TO EXCEED FOUR CALENDAR DAYS.
12. ALL DETOUR SIGNING EXCEPT REGULATORY SIGNS SHALL HAVE BLACK LEGENDS ON FLUORESCENT ORANGE SHEETING AND STANDARD BLACK BORDERS. THE FLUORESCENT ORANGE REFLECTIVE SHEETING SHALL MEET THE REQUIREMENTS OF SECTION 1091 OF THE STANDARD SPECIFICATIONS. ALL DETOUR SIGNING SHALL BE NEW OR LIKE NEW CONDITION. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE CONDITION OF THE SIGNS.
13. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
14. AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THIS DETOUR SHALL MEET THE REQUIREMENTS FOR TYPE A-LOW INTENSITY FLASHING LIGHTS IN ARTICLE 1106.02 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING THE HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.
15. WHEN REQUIRED THE MINIMUM DIMENSIONS OF THE ORANGE WARNING FLAGS SHOWN IN THESE PLANS ARE 18” X 18”.
16. ALL BARRICADES SHALL HAVE REFLECTORIZED STRIPING ON BOTH SIDES OF THE BARRICADES. THE TYPE III BARRICADES USED AT THE POINT OF CLOSURE TO THRU TRAFFIC SHALL NOT EXCEED EIGHT FEET IN WIDTH EACH, FOR A SINGLE APPROACH LANE.
17. THE "ROAD CLOSED" (R11-2), THE "ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY" (R11-3) AND THE "ROAD CLOSED TO THRU TRAFFIC" (R11-4) SIGNS SHALL BE MOUNTED ABOVE THE TOP OF THE BARRICADE. ALL TYPE III BARRICADES SHALL HAVE TWO AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS SPACED NEAR THE CENTERLINE OF THE SUPPORTS.
18. THE ROAD NAME SIGN SHALL HAVE A BLACK LEGEND ON FLUORESCENT ORANGE REFLECTIVE SHEETING. THE SIGN BLANK SHALL BE A 9" X VARIABLE OR A 12" X VARIABLE WITH DESIGN SERIES C LETTERS. THE CAPITAL LETTERS SHALL BE 6" WITH 5" LOWER CASE.
19. DURING NON-WORKING HOURS AT THE POINT OF ROAD CLOSURE TO ALL TRAFFIC THE CONTRACTOR SHALL PROVIDE A MEANS TO RESTRAIN THE BARRICADES FROM EASY MOVEMENT BY VANDALS. THE CHOSEN METHOD SHALL BE APPROVED BY THE ENGINEER.
20. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES DURING NON-WORKING HOURS. IN ANY EVENT ARTICLE 701.04 OF THE STANDARD SPECIFICATIONS SHALL APPLY.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL DETOUR AND CONSTRUCTION SIGNING, INCLUDING BRUSHING BACK VEGETATION IF DEEMED NECESSARY BY THE ENGINEER.
22. THE FOLLOWING ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD IS APPLICABLE FOR THIS WORK:

    STANDARD 701901

23. THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO HOURS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.

HAMPTON, LENZINI AND RENWICK, INC.
350 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

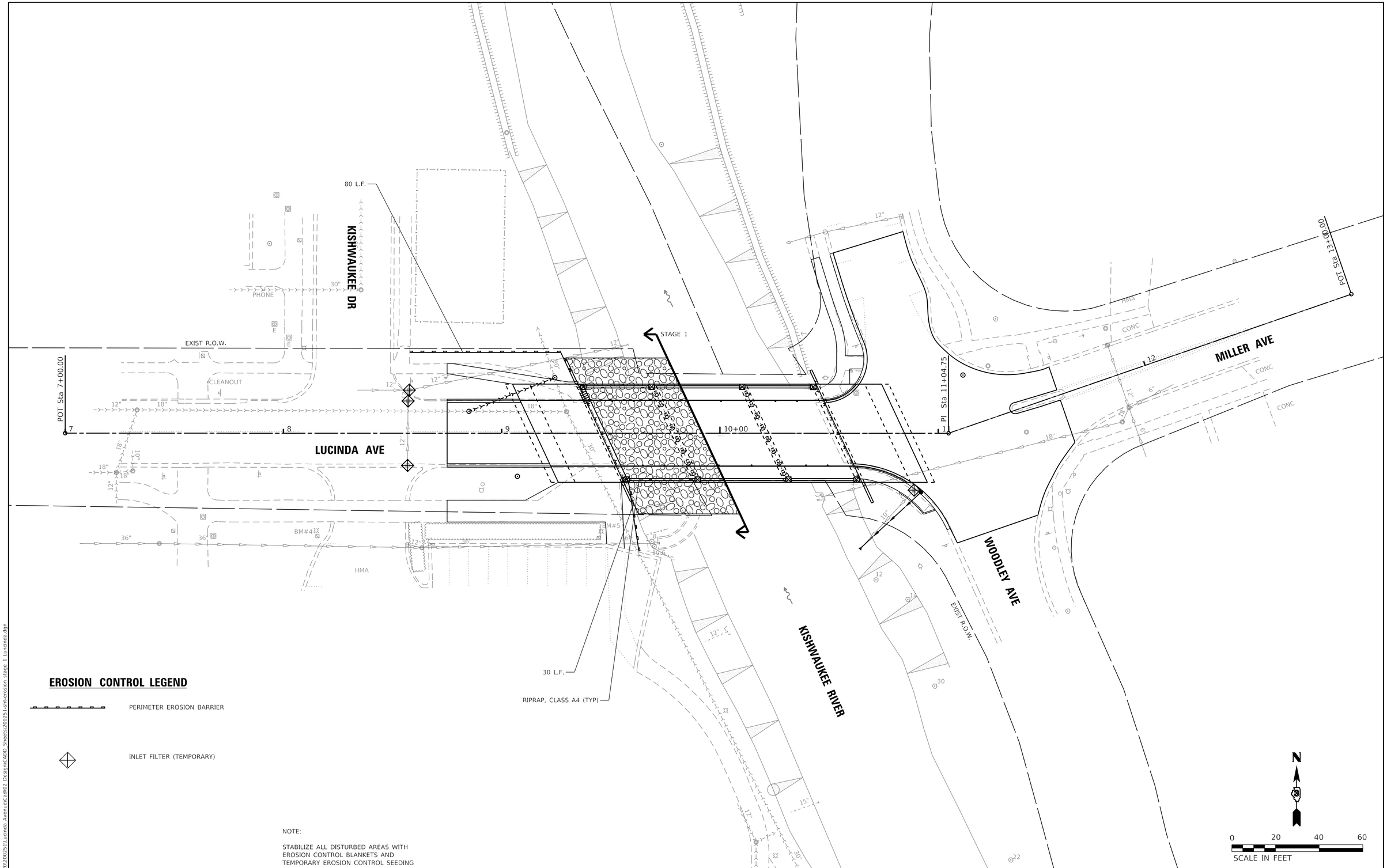
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE
DETOUR PLAN

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	14
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: P:\2020\20025\Lucinda Avenue\Cad\02 Design\CADD Sheets\20025t-slt-detour Lucinda.dgn



EROSION CONTROL LEGEND

PERIMETER EROSION BARRIER

INLET FILTER (TEMPORARY)

NOTE:

STABILIZE ALL DISTURBED AREAS WITH EROSION CONTROL BLANKETS AND TEMPORARY EROSION CONTROL SEEDING

MODEL: Default
FILE NAME: P:\2020\20251\Lucinda Avenue\Cadd02 Design\CADD Sheets\20251-sht-erosion stage 1 Lucinda.dgn

HAMPTON, LENZINI AND RENWICK, INC.
360 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

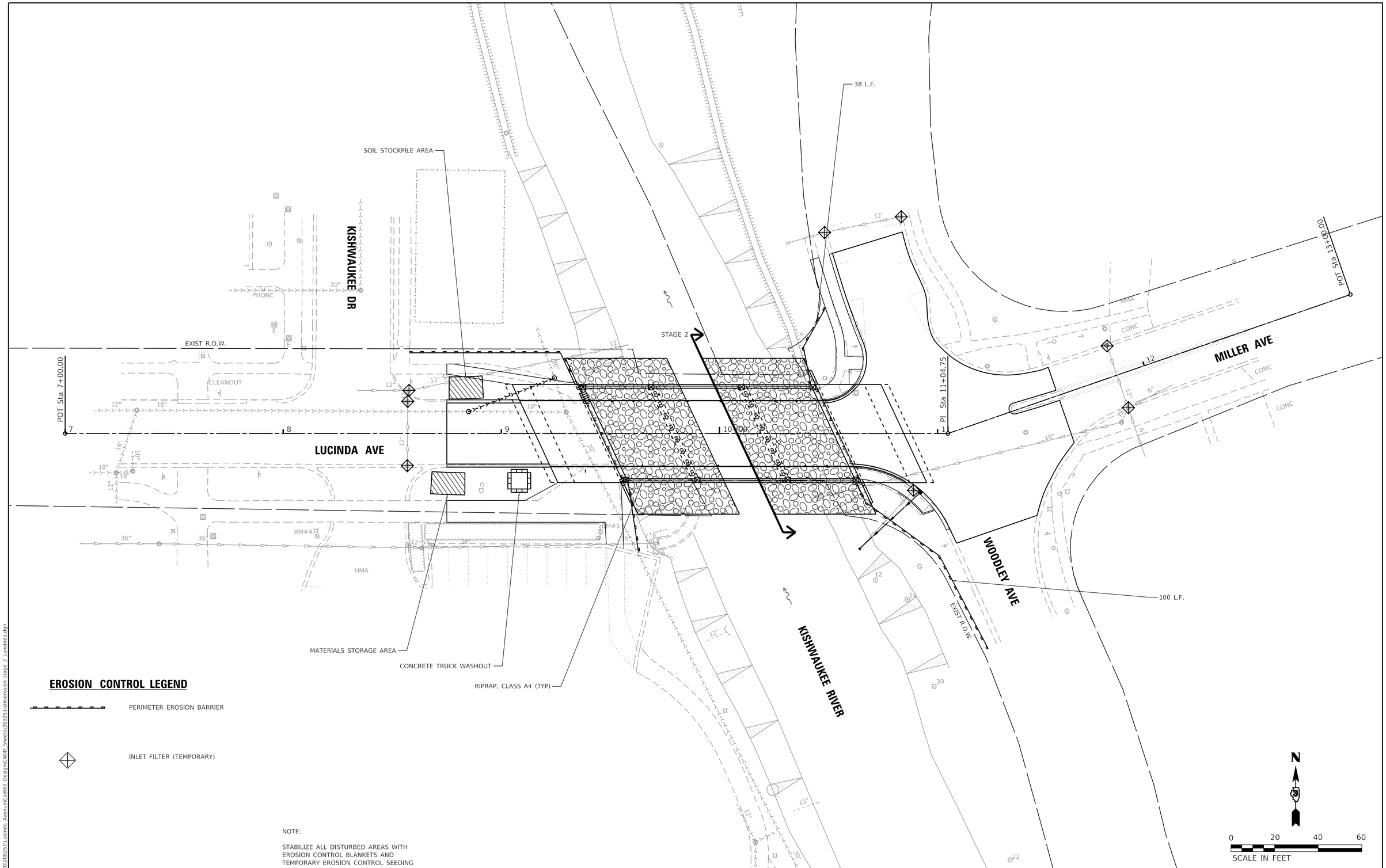
USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE
EROSION SEDIMENT CONTROL PLAN: STAGE 1

SCALE: 1"=20' | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	15
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			



EROSION CONTROL LEGEND

PERIMETER EROSION BARRIER

INLET FILTER (TEMPORARY)

NOTE:

STABILIZE ALL DISTURBED AREAS WITH EROSION CONTROL BLANKETS AND TEMPORARY EROSION CONTROL SEEDING

MODEL: Default
FILE NAME: P:\2020\20251\Lucinda Avenue\Cadd02 Design\CADD Sheets\20251-sht-erosion stage 2 Lucinda.dgn

HAMPTON, LENZINI AND RENWICK, INC. 360 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	USER NAME = steves	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE
EROSION SEDIMENT CONTROL PLAN: STAGE 2

SCALE: 1"=20' | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	16
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			

STANDARD SOIL EROSION AND SEDIEMENT CONTROL NOTES

1. CONTROL MEASURES SHALL MEET THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE ILLINOIS URBAN MANUAL, LATEST EDITION, UNLESS STATED OTHERWISE.

2. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE DISTURBED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL STABILIZATION IS ACHIEVED.

3. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, DEVELOPMENT SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.

4. STABILIZATION BY SEEDING SHALL INCLUDE TOPSOIL PLACEMENT AND FERTILIZATION, AS NECESSARY.

5. NATIVE SEED MIXTURES SHALL INCLUDE RAPID-GROWING ANNUAL GRASSES OR SMALL GRAINS TO PROVIDE INITIAL, TEMPORARY SOIL STABILIZATION.

6. OFFSITE PROPERTY SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT CONCENTRATED DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL, AS NECESSARY TO PREVENT EROSION.

7. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE DISTURBANCE OF TRIBUTARY AREAS.

8. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT NOT LATER THAN 14 CALENDAR DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED BELOW:

A. WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE; AND

B. IN AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD MAY BE USED.

9. DISTURBANCE OF STEEP SLOPES SHALL BE MINIMIZED. AREAS OR EMBANKMENTS HAVING SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH STAKED IN PLACE SOD, EROSION CONTROL BLANKET IN COMBINATION WITH SEEDING, OR AN EQUIVALENT CONTROL MEASURE.

10. PERIMETER CONTROL MEASURES SHALL BE PROVIDED DOWNSLOPE AND PERPENDICULAR TO THE FLOW OF RUNOFF FROM DISTURBED AREAS, WHERE THE TRIBUTARY AREA IS GREATER THAN 5,000 SQUARE FEET, AND WHERE RUNOFF WILL FLOW IN A SHEET FLOW MANNER. PERIMETER EROSION CONTROL SHALL ALSO BE PROVIDED AT THE BASE OF SOIL STOCKPILES. STOCKPILES NOT BEING ACTIVELY WORKED AND TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

11. THE STORMWATER MANAGEMENT SYSTEM SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION DOWNSLOPE FROM DISTURBED AREAS. INLET PROTECTION THAT REDUCES SEDIMENT LOADING, WHILE ALLOWING RUNOFF TO ENTER THE INLET SHALL BE REQUIRED FOR ALL STORM SEWERS. CHECK DAMS, OR AN EQUIVALENT CONTROL MEASURE, SHALL BE REQUIRED FOR ALL CHANNELS. FILTER FABRIC INLET PROTECTION AND STRAW BALE DITCH CHECKS ARE NOT ACCEPTABLE CONTROL MEASURES.

12. IF DEWATERING SERVICES ARE USED, DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G., SEDIMENT TRAP OR AN EQUIVALENT CONTROL MEASURE). THE APPENDIX 2: STANDARD SOIL EROSION AND SEDIMENT CONTROL NOTES 109 REFER TO APPENDIX 12 FOR THE DEFINITION OF UNDERLINED TERMS OR TO APPENDIX 13 FOR A LIST OF ACRONYMS. REFER TO APPENDIX 1 FOR PERMITTING FLOWCHARTS. ENFORCEMENT OFFICER SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF DEWATERING ACTIVITIES.

13. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION OF THE DEVELOPMENT SITE IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NECESSARY. TRAPPED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED.

14. STOCKPILED SOIL AND MATERIALS SHALL BE REMOVED FROM FLOOD HAZARD AREAS AT THE END OF EACH WORK DAY. SOIL AND MATERIALS STOCKPILED IN IWMC OR BUFFER AREAS SHALL BE PLACED ON TIMBER MATS, OR AN EQUIVALENT CONTROL MEASURE.

15. EFFECTIVE CONTROL MEASURES SHALL BE UTILIZED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE DEVELOPMENT SITE. AT A MINIMUM, CONTROL MEASURES SHALL BE IMPLEMENTED IN ORDER TO:

A. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATER; AND

B. MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, VEHICLE FLUIDS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE DEVELOPMENT SITE TO PRECIPITATION AND TO STORMWATER.

16. ADEQUATE RECEPTACLES SHALL BE PROVIDED FOR THE DEPOSITING OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE APPLICANT SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL, OR IWMC. THE DEVELOPMENT SITE SHALL BE MAINTAINED FREE OF CONSTRUCTION MATERIAL DEBRIS.

17. THE ENFORCEMENT OFFICER MAY REQUIRE ADDITIONAL OR ALTERNATE SOIL EROSION AND SEDIMENT CONTROL MEASURES, BASED ON DEVELOPMENT SITE SPECIFIC CONSIDERATIONS AND THE EFFECTIVENESS OF THE INSTALLED CONTROL MEASURES.

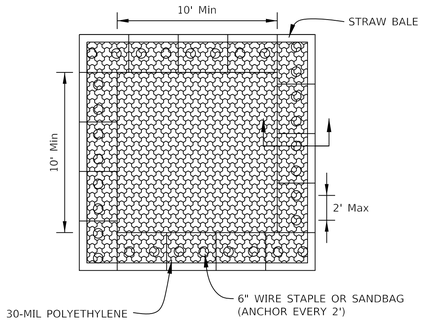
18. THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE WALL GROWING SEASON SO THAT SLOPES AND OTHER BARE WATH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.

19. THE CITY OF DEKALB MUST BE NOTIFIED ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

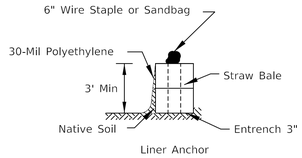
20. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

21. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE CITY.

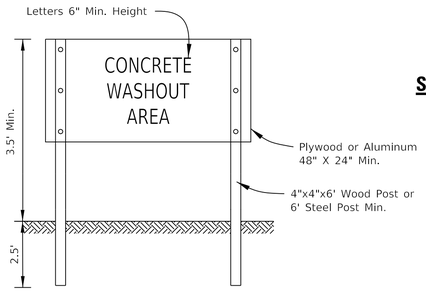
22. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.



PLAN VIEW



STRAW BALE ANCHOR SECTIONS



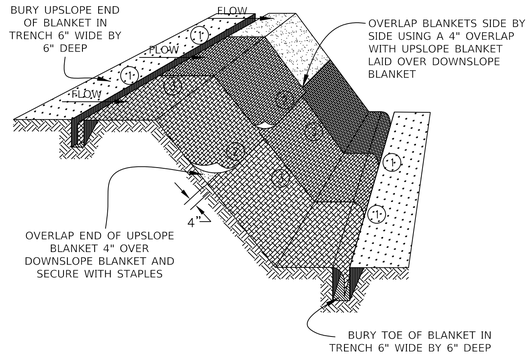
SIGN DETAIL

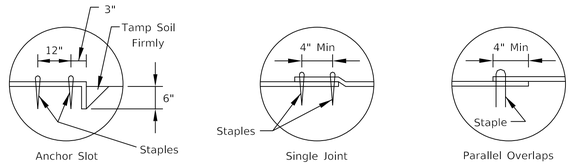
NOTES:

1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.
3. Each straw bale is to be staked in place using (2) 2"x2"x4' wooden stakes.

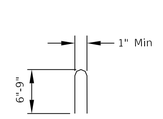
CONCRETE WASHOUT

NOT TO SCALE

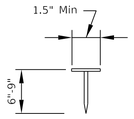




DETAIL 1 **DETAIL 2** **DETAIL 3**



STAPLE DETAIL



PUSH PIN DETAIL

NOTES:

1. Staples shall be placed in a diamond pattern at 2 per s.y. for stiched blankets. Non-stiched shall use 4 staples per s.y. of material. This equates to 200 staples with stiched blanket and 400 stapels with non-stiched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be stapled at approximately 12" intervals.

EROSION CONTROL BLANKET

NOT TO SCALE

MODEL: Default
FILE NAME: P:\2020\20251\Lucinda Avenue\Cadd\02 Design\CADD Sheets\20251-ht-eros details.dgn

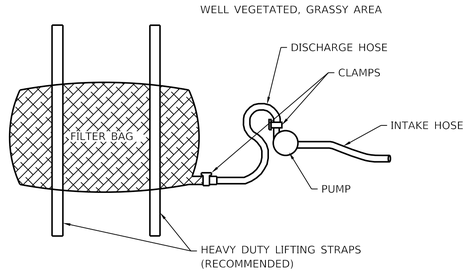
HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	USER NAME = steves	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

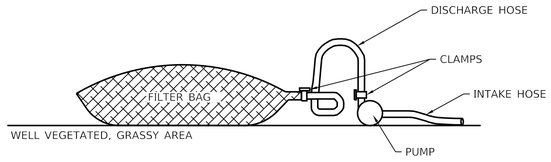
LUCINDA AVENUE AND NORTH FIRST STREET
EROSION SEDIMENT CONTROL DETAILS

SCALE: · SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	17
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			



PLAN VIEW



ELEVATION VIEW

NOTES:

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5% FOR SLOPES EXCEEDING 5% CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

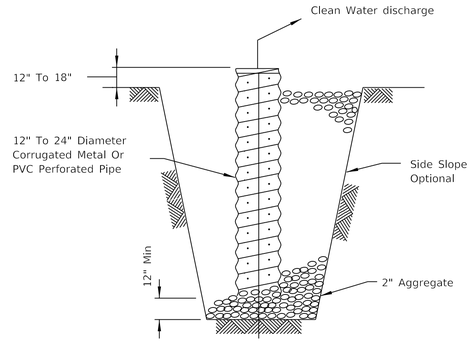
NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

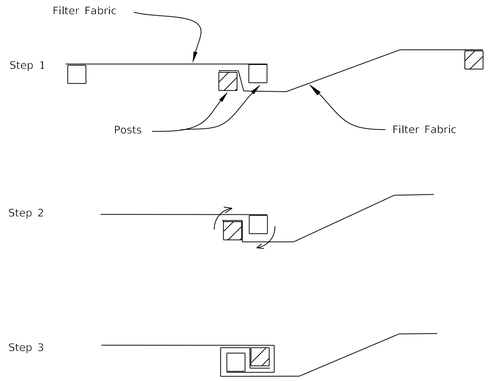
DEWATERING FILTER BAG
NOT TO SCALE



SECTION

NOTES:
1. Pit dimensions are optional.
2. The standpipe will be constructed by perforating a 12"-24" diameter corrugated metal or PVC pipe.
3. A base of 2" aggregate will be placed in the pit to a minimum depth of 12". After installing the standpipe, the pit surrounding the standpipe will then be backfilled with 2" aggregate.
4. The standpipe will extend 12" to 18" above the lip of the pit.
5. If discharge will be pumped directly to a storm drainage system, the standpipe will be wrapped with filter fabric before installation.
6. If desired, 1/4"-1/2" hardware cloth may be placed around the standpipe prior to attaching the filter fabric. This will increase the rate of water seepage into the pipe.

SUMP PIT PLAN
NOT TO SCALE



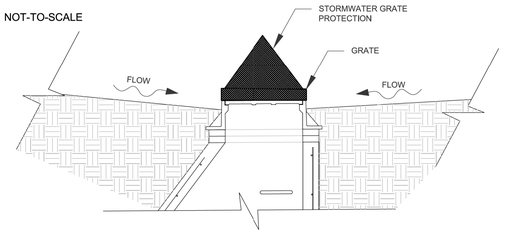
ATTACHING TWO SILT FENCES

1. Place the end post of the second fence inside the end post of the first fence.
2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
3. Cut the fabric near the bottom of the stakes to accommodate the 6" flap.
4. Drive both posts a minimum of 18 inches into the ground and bury the flap.
5. Compact backfill (particularly at splices) completely to prevent stormwater piping.

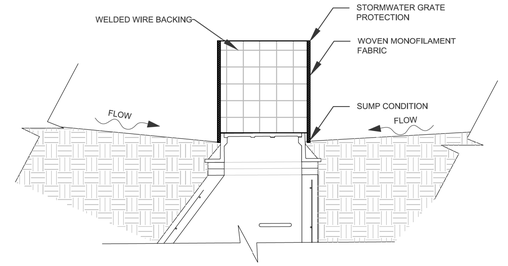
SILT FENCE SPLICE
NOT TO SCALE

MANUFACTURED ABOVE GRADE INLET PROTECTION

NOT-TO-SCALE



SECTION



SECTION

NOTES:
1. A maintenance schedule must maintain a sediment accumulation of less than 50% of the height of the inlet protection.
2. Device should be supported.
3. Fabric type should be IUM 592 Standard Table 1 Class 4

REFERENCE		STANDARD DWG. NO.
Project		IUM-531
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 03-27-17
Approved ____ Date ____		

MODEL: Default
FILE NAME: P:\2020\20025\Lucinda Avenue\Cad\02 Design\CADD Sheets\20251-ilt-eros details.dgn

HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

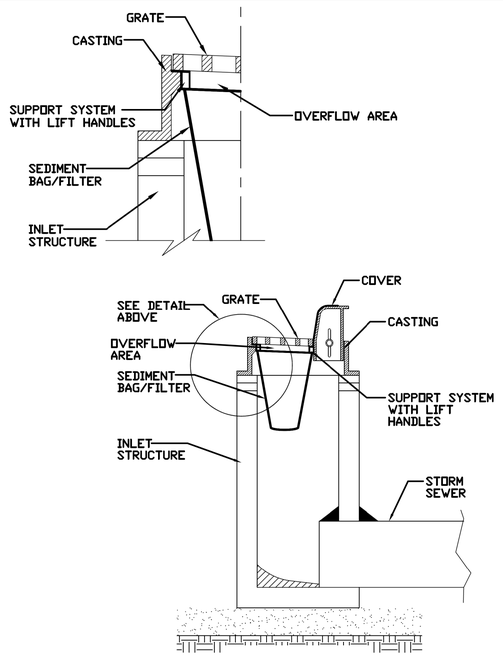
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE AND NORTH FIRST STREET
EROSION SEDIMENT CONTROL DETAILS

SCALE: - | SHEET OF SHEETS | STA. | TO STA.

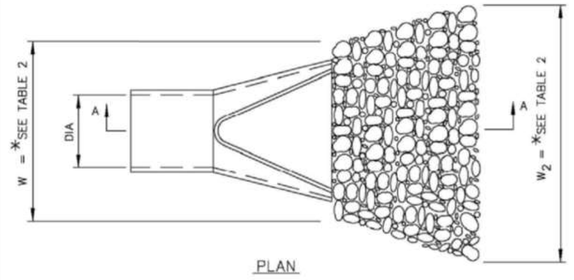
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	18
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

INLET PROTECTION - PAVED AREAS
DROP-IN PROTECTION

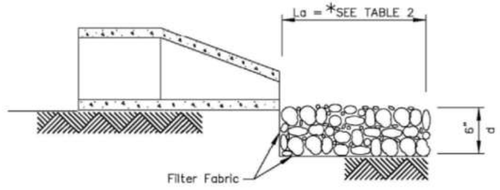


REFERENCE
Project
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

STANDARD DWG. NO.
IUM-561D
SHEET 1 OF 1
DATE 01-11-11



PLAN



SECTION A-A

NOTES:
1. The filter fabric is required for Gradation RR4 and greater and shall meet the requirements of section 282 of the standard specifications.
2. The rock riprap shall meet section 281 of the standard specifications and have the gradation as shown in TABLE 2.

TABLE 1
ROCK RIPRAP SIZES AND THICKNESS

IDOT Gradation Number	d50 (in.)	dmax (in.)	Minimum Blanket Thickness (in)
RR-3	5	10	15
RR-4	9	14	20
RR-5	12	19	28
RR-6	15	22	32
RR-7	18	27	32

TABLE 2
MINIMUM IDOT ROCK SIZES AND APRON LENGTHS

Culvert Dia. (in.)	Rock Gradation	La (ft.)	(ft) W_1	(ft) W_2
12	RR3	10	3	11
18	RR3	14	4.5	15.5
24	RR3	16	6	18
30	RR3	18	7.5	20.5
36	RR4	20	9	23
48	RR4	24	12	28
60	RR5	32	15	37
72	RR6	40	18	46
96	RR7	50	21	57

RIPRAP

MODEL: Default
FILE NAME: P:\2020\200251\Lucinda Avenue\Cadd\02 Design\CADD Sheets\200251-sht-eros details.dgn

HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

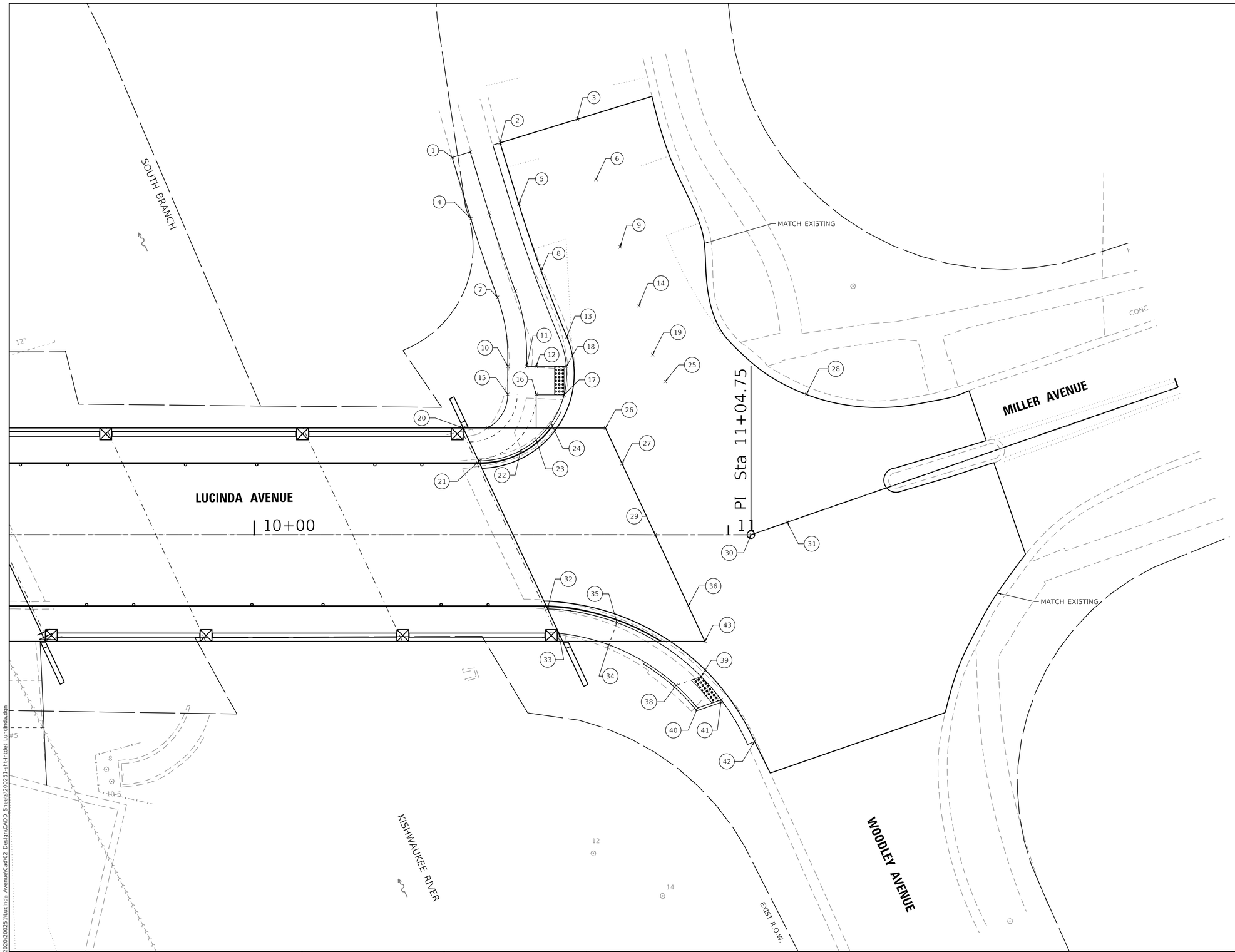
USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE AND NORTH FIRST STREET
EROSION SEDIMENT CONTROL DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	19
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		



Point	Station	Offset	Elevation
1	10+41.71	-79.54	842.55
2	10+51.83	-82.64	841.52
3	10+68.08	-87.62	841.93
4	10+45.66	-66.65	843.07
5	10+55.78	-69.75	842.19
6	10+72.03	-74.93	841.95
7	10+51.27	-50.03	843.73
8	10+60.50	-55.61	842.91
9	10+77.13	-60.66	842.11
10	10+53.44	-35.50	844.30
11	10+57.44	-35.50	844.26
12	10+59.44	-35.50	844.23
13	10+65.95	-41.75	843.65
14	10+81.10	-48.29	842.59
15	10+53.44	-29.58	844.37
16	10+59.44	-29.50	844.30
17	10+65.33	-29.50	843.87
18	10+65.82	-35.50	843.80
19	10+83.99	-37.99	842.99
20	10+44.06	-22.50	845.53
21	10+47.46	-15.58	845.34
22	10+56.17	-17.77	844.84
23	10+59.44	-20.00	844.70
24	10+62.60	-23.51	844.51
25	10+86.64	-32.30	843.01
26	10+74.06	-22.50	843.69
27	10+77.56	-15.00	843.69
28	11+25.44	-24.15	841.95
29	10+84.55	0.00	843.70
30	11+04.75	0.00	843.06
31	11+12.84	0.00	842.94
32	10+61.84	15.62	844.95
33	10+64.25	20.80	844.95
34	10+74.78	23.23	844.29
35	10+76.50	18.53	844.29
36	10+91.55	15.00	843.69
38	10+88.94	31.76	843.65
39	10+94.25	29.93	843.55
40	10+93.49	36.54	843.65
41	10+98.49	34.81	843.64
43	10+95.04	22.50	843.50

MODEL: Default
FILE NAME: P:\2020\20025\Lucinda Avenue\Cad\02 Design\CADD Sheets\200251-sht-antdet Lucinda.dgn

HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

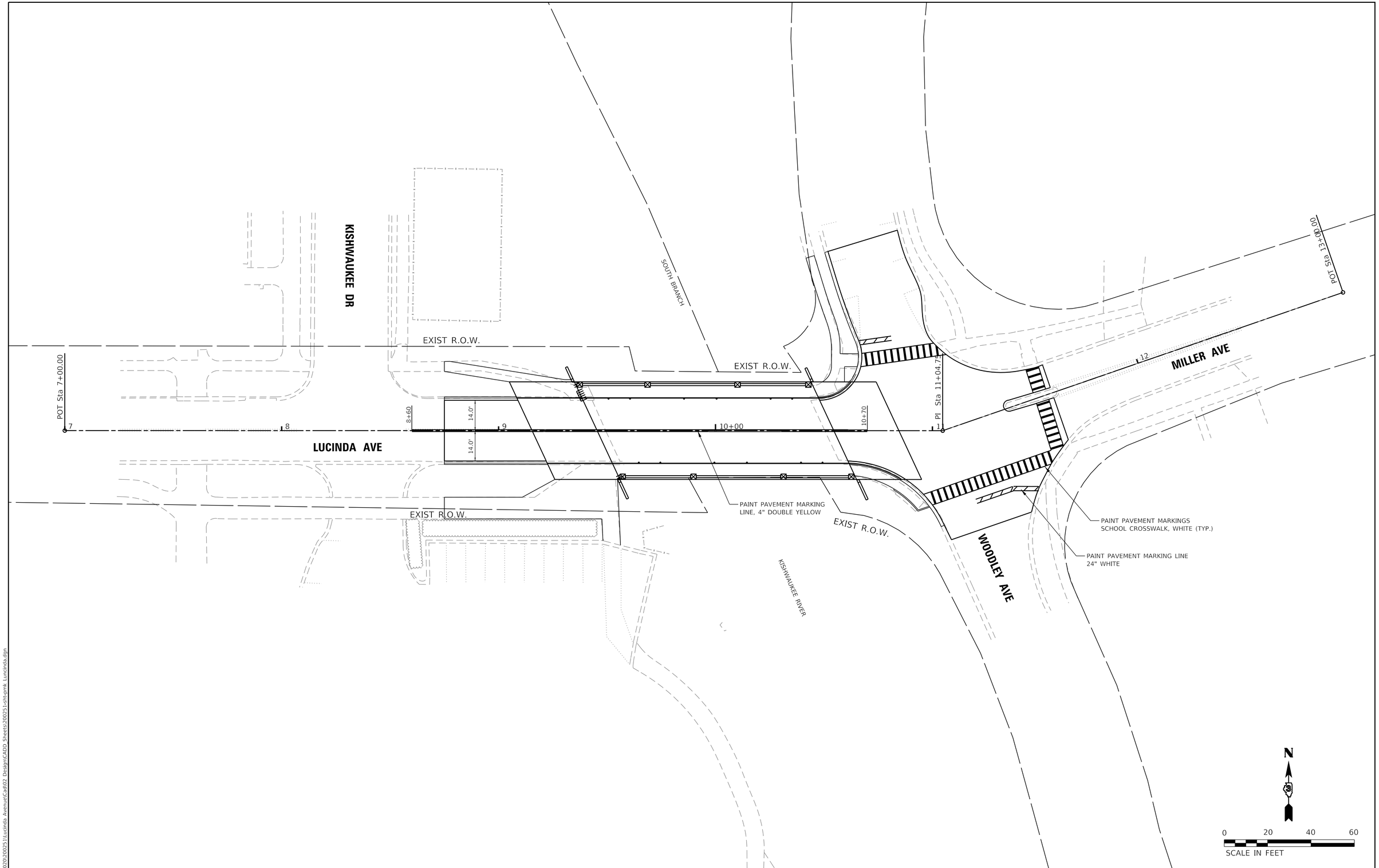
USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE
INTERSECTION DETAIL

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	20
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		



MODEL: Default
FILE NAME: P:\2020\20025\1\Lucinda Avenue\Cad\02 Design\CADD Sheets\20025 1-sht-pmk Lucinda.dgn

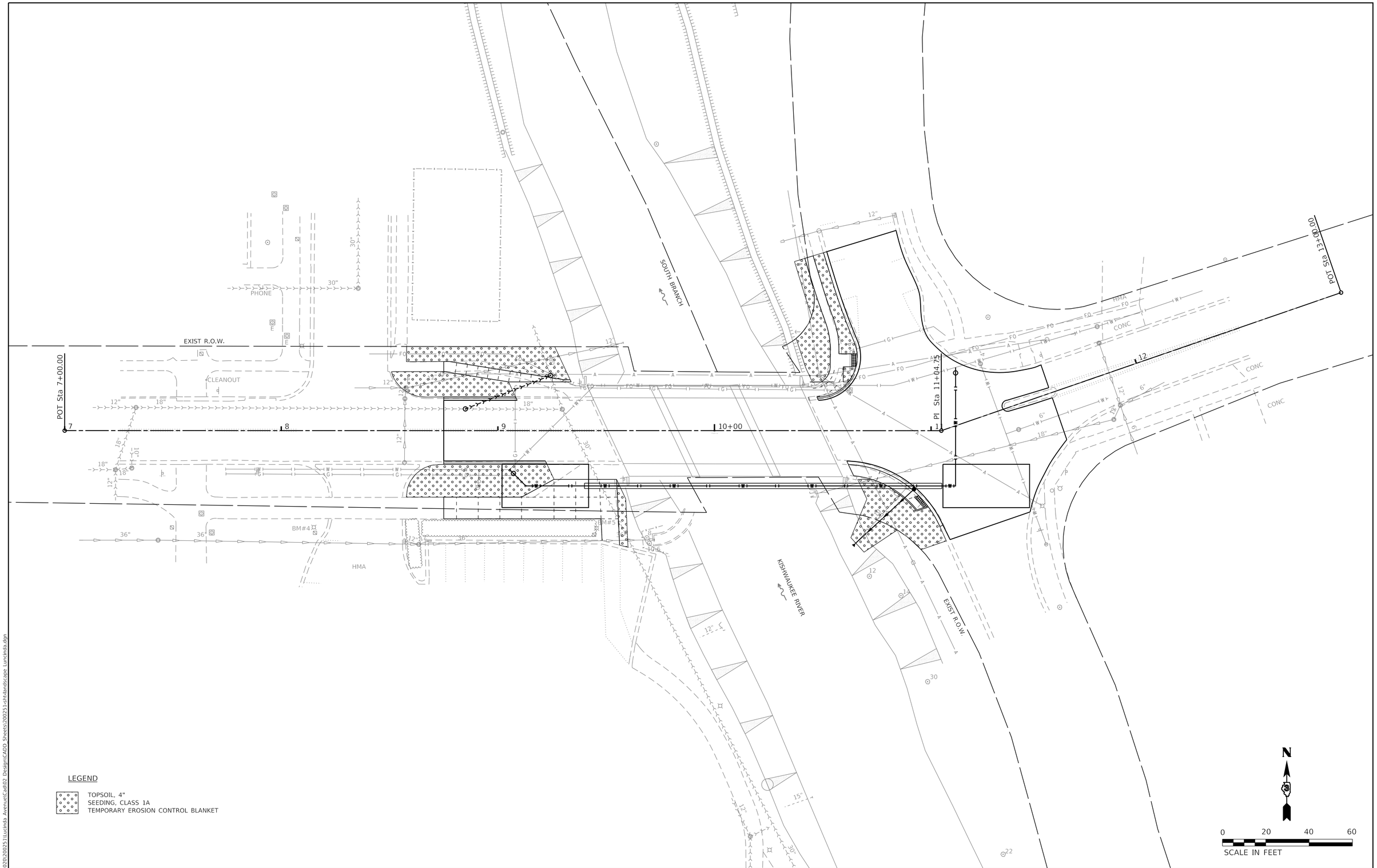
HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	USER NAME = steves	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE
PAVEMENT MARKING PLAN

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	21
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			



MODEL: Default
FILE NAME: P:\2020\20025\LUcinda Avenue\Cad\02 Design\CADD Sheets\20025-sht-landscape Lucinda.dgn

HAMPTON, LENZINI AND RENWICK, INC.	USER NAME = steves	DESIGNED -	REVISED -
380 SHEPARD DRIVE ELGIN, ILLINOIS 60123		DRAWN -	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE
LANDSCAPE PLAN

SCALE: 1"=20' | SHEET OF SHEETS | STA. TO STA.

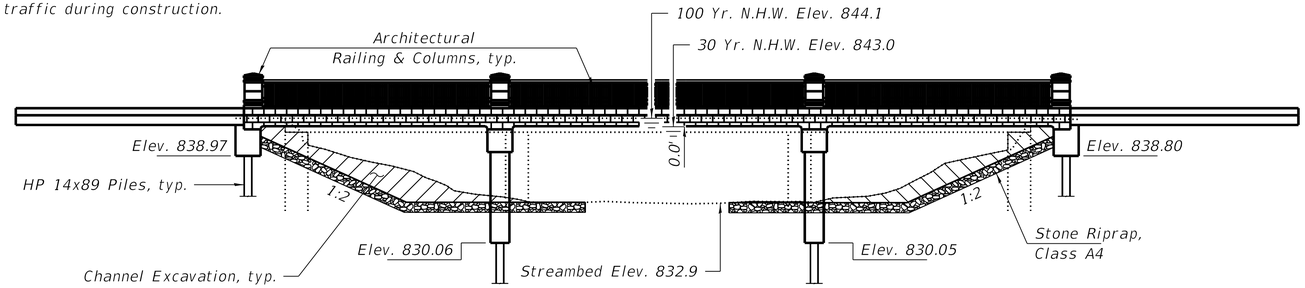
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	22
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

BENCHMARK: RR Spike in PP, Sta. 8+67, 38' Lt., Elev. 844.27

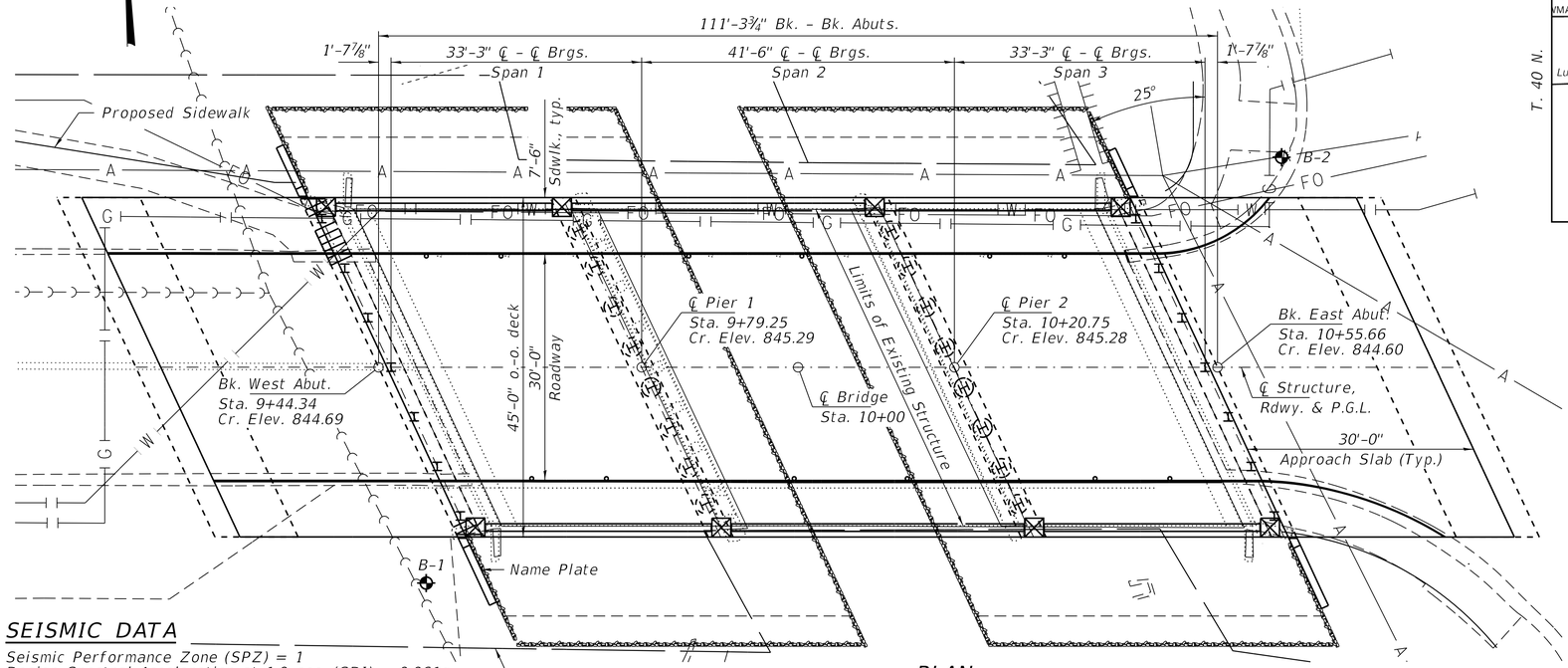
EXISTING STRUCTURE NO. 019-6002: Sta. 10+00 – Three span reinforced concrete slab bridge with precast concrete pile bent abutments and piers. 101.0' bk.-bk.; 42.0' o.-o. deck.

Structure closed to traffic during construction.

No Salvage

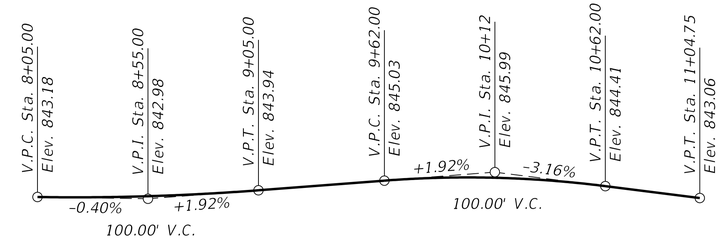


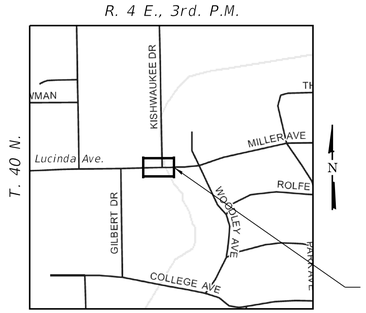
ELEVATION



PLAN

PROFILE GRADE
(Lucinda Avenue)





LOCATION SKETCH

S. BR. OF KISHWAUKEE RIVER
BUILT 202_ BY
CITY OF DEKALB
SEC. 18-00193-00-BR
LUCINDA AVENUE
STR. NO. 019-6109
LOADING HL-93

NAME PLATE
See Std. 515001

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SDI) = 0.061g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.115g
Soil Site Class = C

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi (Super.)
f'c = 3,500 psi (Sub.)
fy = 60,000 psi (Reinf.)
fy = 50,000 psi (H-Piles) (M270 Gr. 50)

WATERWAY INFORMATION

Drainage Area = 81.2 Sq. Mi.
Existing Low Grade Elev. 843.6 @ Sta. 10+75 (levee)
Proposed Low Grade Elev. 843.6 @ Sta. 10+75 (levee)

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Ten-Year	10	2080	600	600	841.8	0.6	0.5	842.4	842.3
Design	30	2710	660	700	843.0	0.3	0.2	843.3	843.2
Base	100	3400	660	710	844.1	0.2	0.1	844.3	844.1
Scour Check	200	3810	660	710	844.6	0.0	0.0	844.6	844.6
Max. Calc.	500	4360	660	710	845.1	0.0	0.0	845.1	845.1

10 Year Velocity through Existing Bridge = 3.5 fps
10 Year Velocity through Proposed Bridge = 3.5 fps

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elevations (ft.) W. Abut.	Pier 1	Pier 2	E. Abut.	Item 113
Q100	839.0	828.2	828.2	838.80	8
Q200		828.1	828.1		
Design		828.2	828.2		
Check		828.1	828.1		

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

LICENSED STRUCTURAL ENGINEER
IAN P. NILAUSEN
081-008439
STATE OF ILLINOIS

04/08/2022
ILLINOIS STRUCTURAL NO. 081-8439 Expires 11-30-2022

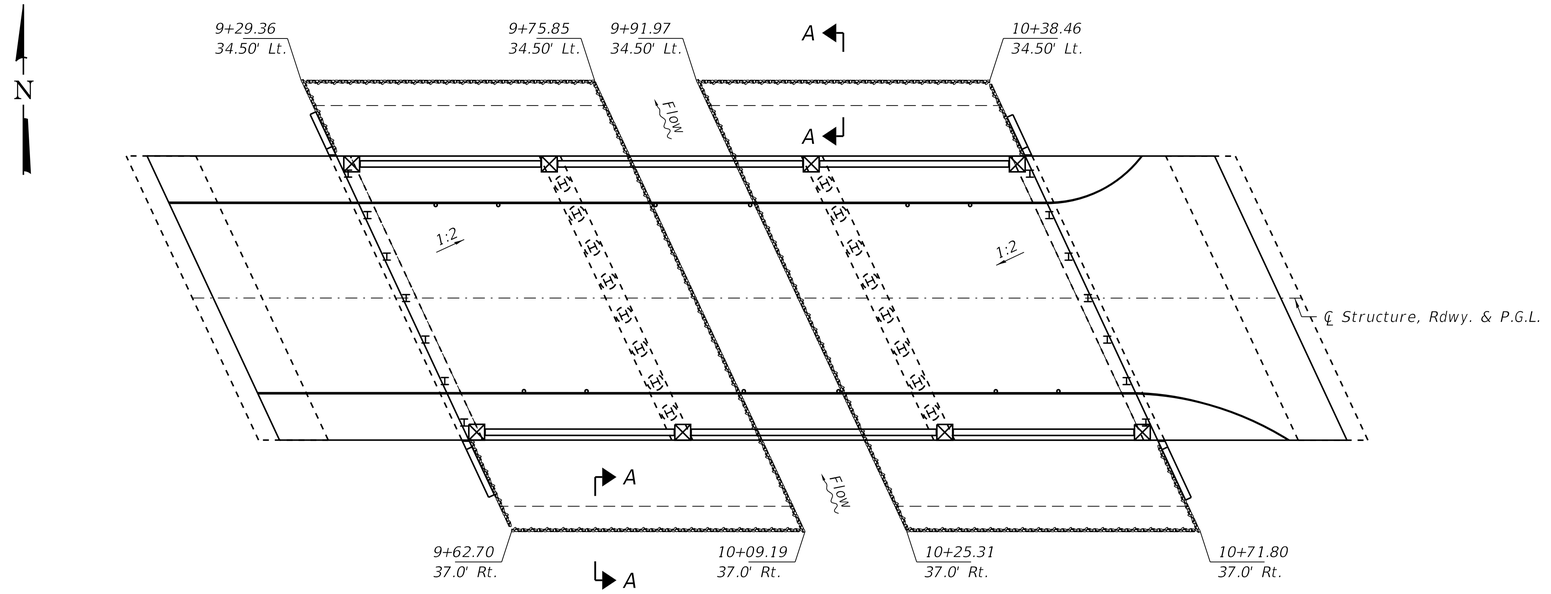
GENERAL PLAN & ELEVATION
LUCINDA AVENUE OVER
SOUTH BR. KISHWAUKEE RIVER
SECTION 18-00193-00-BR
CITY OF DEKALB
STATION 10+00
STRUCTURE NO. 019-6109

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - A.C.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.M.S.	REVISED -
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -

STATE OF ILLINOIS
CITY OF DEKALB

GENERAL PLAN & ELEVATION
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S1 OF S34 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	23
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			



RIPRAP PLAN

GENERAL NOTES

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

The Contractor shall make allowance for the deflection of forms, shrinkage, and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.

Protective Coat shall be applied to the top surface of the concrete deck, and the front and top of the sidewalks.

Reinforcement bars designated (E) shall be epoxy coated.

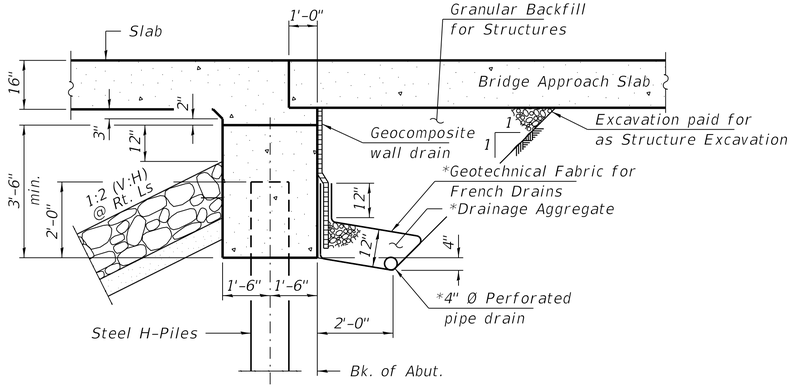
Backfill shall be placed behind the abutment after the superstructure has been poured and falsework removed. See Article 502.10 of the Standard Specifications.

INDEX OF STRUCTURE SHEETS

1. General Plan & Elevation
2. General Details & Notes
3. Top of Slab Elevations
4. Top of West Approach Slab Elevations
5. Top of West Approach Slab Sidewalks Elevations
6. Top of East Approach Slab Elevations
7. Top of East Approach Slab Sidewalks Elevations
8. Superstructure
9. Superstructure Cross Sections
10. Sidewalk/Rail/Columns Plan & Elevation
11. Superstructure Architectural Column Details
12. Superstructure Details
13. West Bridge Approach Slab
14. West Bridge Approach Slab Sidewalk Details
15. West Bridge Approach Slab Details
16. East Bridge Approach Slab
17. East Bridge Approach Slab Sidewalk Details
18. East Bridge Approach Slab Details
19. West Abutment
20. East Abutment
21. West Pier – Pier 1
22. East Pier – Pier 2
23. HP Pile Details

24.–26. Borings

27.–34. Existing Plans

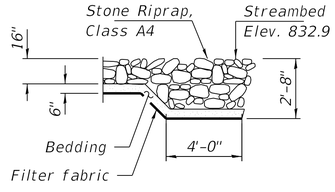


SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. Ls)

*Included in the cost of Pipe Underdrains for structures.

All drainage systems components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting wit the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



SECTION A-A

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	OTHER	TOTAL
	Channel Excavation	Cu. Yd.			324	324
*	Stone Riprap, Class A4	Sq. Yd.			721	721
	Filter Fabric	Sq. Yd.			721	721
*	Removal of Existing Structures	Each			1	1
	Structure Excavation	Cu. Yd.			185	185
	Floor Drains	Each	8			8
	Concrete Structures	Cu. Yd.		117.6		117.6
	Concrete Superstructure	Cu. Yd.	303.7			303.7
	Bridge Deck Grooving	Sq. Yd.	564			564
	Concrete Encasement	Cu. Yd.		28.0		28.0
*	Form Liner Textured Surface	Sq. Yd.	480			480
*	Protective Coat	Sq. Yd.	872	12		884
	Concrete Superstructure (Approach Slab)	Cu. Yd.	142.8			142.8
	Reinforcement Bars, Epoxy Coated	Pound	178,620	20,090		198,710
	Furnishing Steel Piles HP14x89	Foot		1,117		1,117
	Driving Piles	Foot		1,117		1,117
	Test Pile Steel HP14X89	Each		4		4
	Pile Shoes	Each		30		30
	Name Plates	Each		1		1
	Granular Backfill for Structures	Cu. Yd.		128		128
	Geocomposite Wall Drain	Sq. Yd.		66		66
	Pipe Underdrains for Structures 4"	Foot		154		154
*	Ornamental Railing	L Sum	1			1

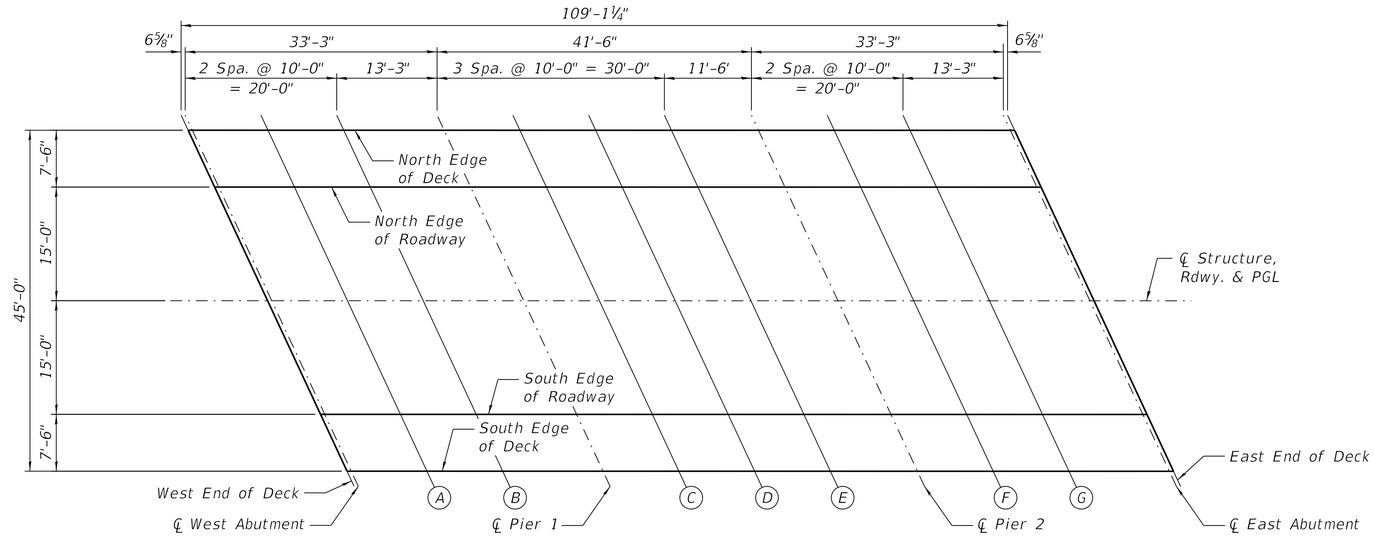
*See Special Provisions

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - A.C.	REVISED -	
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.M.S.	REVISED -	
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -	

STATE OF ILLINOIS
CITY OF DEKALB

GENERAL DETAILS & NOTES
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S2 OF S34 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	24
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		



PLAN

NORTH EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W End of Deck	9+34.96	-22.50'	844.40	844.40
℄ Bridge W Abutment	9+35.51	-22.50'	844.41	844.41
A	9+45.51	-22.50'	844.60	844.65
B	9+55.51	-22.50'	844.79	844.84
℄ Bridge Pier 1	9+68.76	-22.50'	845.04	845.04
C	9+78.76	-22.50'	845.17	845.21
D	9+88.76	-22.50'	845.25	845.32
E	9+98.76	-22.50'	845.28	845.33
℄ Bridge Pier 2	10+10.26	-22.50'	845.25	845.25
F	10+20.26	-22.50'	845.17	845.21
G	10+30.26	-22.50'	845.04	845.10
℄ Bridge E Abutment	10+43.51	-22.50'	844.80	844.80
E End Deck	10+44.06	-22.50'	844.78	844.78

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W End Deck	9+38.45	-15.00'	844.35	844.35
℄ Bridge W Abutment	9+39.01	-15.00'	844.27	844.37
A	9+49.01	-15.00'	844.56	844.61
B	9+59.01	-15.00'	844.75	844.79
℄ Bridge Pier 1	9+72.26	-15.00'	844.98	844.98
C	9+82.26	-15.00'	845.09	845.13
D	9+92.26	-15.00'	845.15	845.22
E	10+02.26	-15.00'	845.17	845.21
℄ Bridge Pier 2	10+13.76	-15.00'	845.12	845.12
F	10+23.76	-15.00'	845.02	845.05
G	10+33.76	-15.00'	844.87	844.93
℄ Bridge E Abutment	10+47.01	-15.00'	844.60	844.60
E End Deck	10+47.56	-15.00'	844.59	844.59

℄ STRUCTURE, ROADWAY & P.G.L.

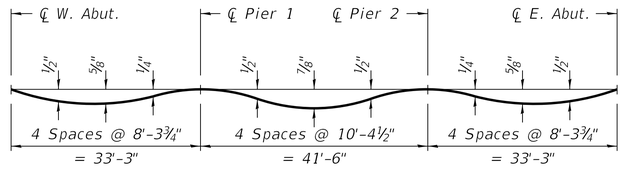
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
West End of Deck	9+45.45	0.00	844.71	844.71
℄ West Abutment	9+46.00	0.00	844.72	844.72
A	9+56.00	0.00	844.92	844.97
B	9+66.00	0.00	845.10	845.15
Pier 1	9+79.25	0.00	845.29	845.29
C	9+89.25	0.00	845.37	845.40
D	9+99.25	0.00	845.39	845.46
E	10+09.25	0.00	845.37	845.42
Pier 2	10+20.75	0.00	845.28	845.28
F	10+30.75	0.00	845.15	845.18
G	10+40.75	0.00	844.97	845.02
℄ East Abutment	10+54.00	0.00	844.65	844.65
East End of Deck	10+54.55	0.00	844.63	844.63

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W End Deck	9+52.44	15.00'	844.62	844.62
℄ Bridge W Abutment	9+52.99	15.00'	844.63	844.63
A	9+62.99	15.00'	844.82	844.88
B	9+72.99	15.00'	844.99	845.03
℄ Bridge Pier 1	9+86.24	15.00'	845.12	845.12
C	9+96.24	15.00'	845.17	845.20
D	10+06.24	15.00'	845.16	845.23
E	10+16.24	15.00'	845.10	845.14
℄ Bridge Pier 2	10+27.74	15.00'	844.97	844.97
F	10+37.74	15.00'	844.80	844.83
G	10+47.74	15.00'	844.58	844.64
℄ Bridge E Abutment	10+60.99	15.00'	844.22	844.22
E End Deck	10+61.55	15.00'	844.20	844.20

SOUTH EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W End Deck	9+55.94	22.50'	844.80	844.80
℄ Bridge W Abutment	9+56.49	22.50'	844.81	844.81
A	9+66.49	22.50'	845.00	845.05
B	9+76.49	22.50'	845.14	845.19
℄ Bridge Pier 1	9+89.74	22.50'	845.26	845.26
C	9+99.74	22.50'	845.28	845.32
D	10+09.74	22.50'	845.26	845.32
E	10+19.74	22.50'	845.18	845.22
℄ Bridge Pier 2	10+31.24	22.50'	845.03	845.03
F	10+41.24	22.50'	844.84	844.88
G	10+51.24	22.50'	844.61	844.66
℄ Bridge E Abutment	10+64.49	22.50'	844.22	844.22
E End Deck	10+65.04	22.50'	844.20	844.20



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections.

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - A.C.	REVISED -
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.M.S.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -

STATE OF ILLINOIS
CITY OF DEKALB

TOP OF SLAB ELEVATIONS
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S3 OF S34 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	25
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

NORTH EDGE OF SLAB

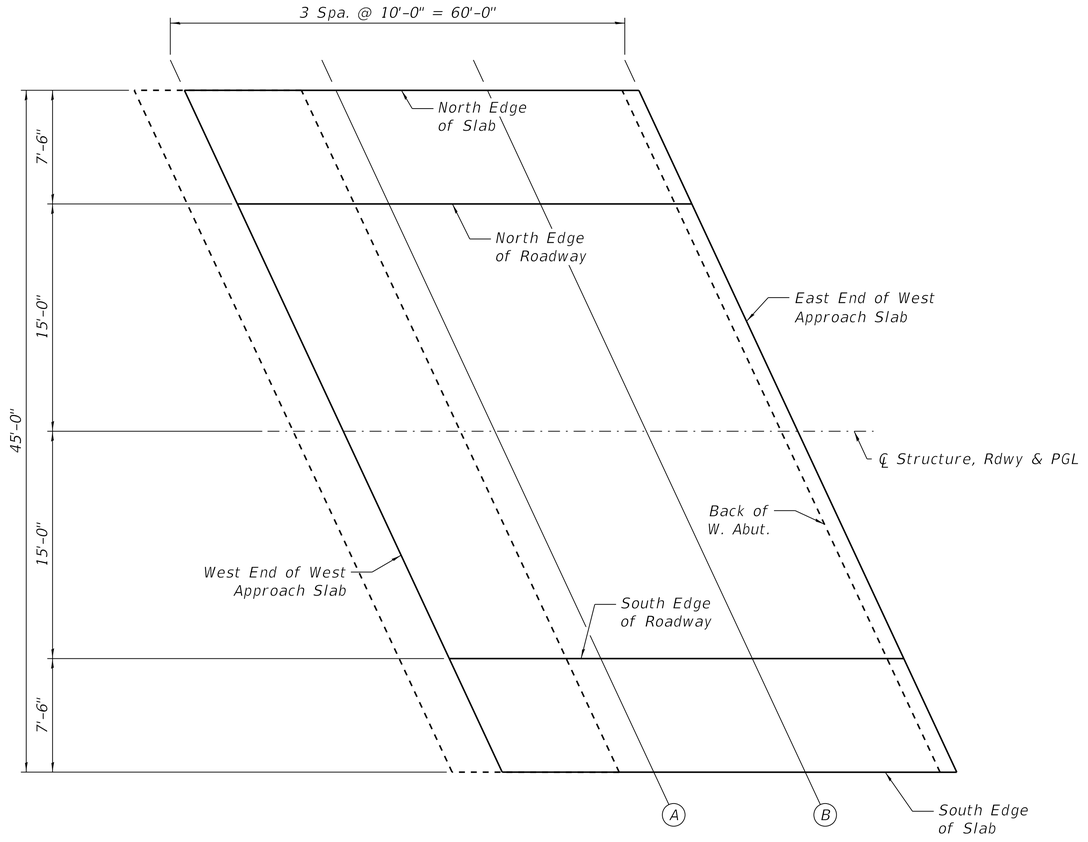
Location	Station	Offset	Theoretical Grade Elevations
West End of W Appr. Slab	9+04.96	-22.50	843.82
A	9+14.96	-22.50	844.02
B	9+24.96	-22.50	844.21
East End of W Appr. Slab	9+34.96	-22.50	844.40

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
West End of W Appr. Slab	9+08.45	-15.00	843.78
A	9+18.45	-15.00	843.97
B	9+28.45	-15.00	844.16
East End of W Appr. Slab	9+38.45	-15.00	844.35

℄ STRUCTURE, ROADWAY & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
West End of W Appr. Slab	9+15.45	0.00	844.14
A	9+25.45	0.00	844.33
B	9+35.45	0.00	844.52
East End of W Appr. Slab	9+45.45	0.00	844.71



PLAN



SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
West End of W Appr. Slab	9+22.44	15.00	844.05
A	9+32.44	15.00	844.24
B	9+42.44	15.00	844.43
East End of E Appr. Slab	9+52.44	15.00	844.62

SOUTH EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
West End of W Appr. Slab	9+25.94	22.50	844.23
A	9+35.94	22.50	844.42
B	9+45.94	22.50	844.61
East End of W Appr. Slab	9+55.94	22.50	844.80

Note: Elevations for Top of West Approach Slab only, see Structural sheet S5 of S34 for Top of South Approach Slab Sidewalk Elevations.

HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
		DRAWN - A.C.	REVISED -
	PLOT SCALE =	CHECKED - S.M.S.	REVISED -
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -

STATE OF ILLINOIS
CITY OF DEKALB

TOP OF WEST APPROACH SLAB ELEVATIONS
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S4 OF S34 SHEETS

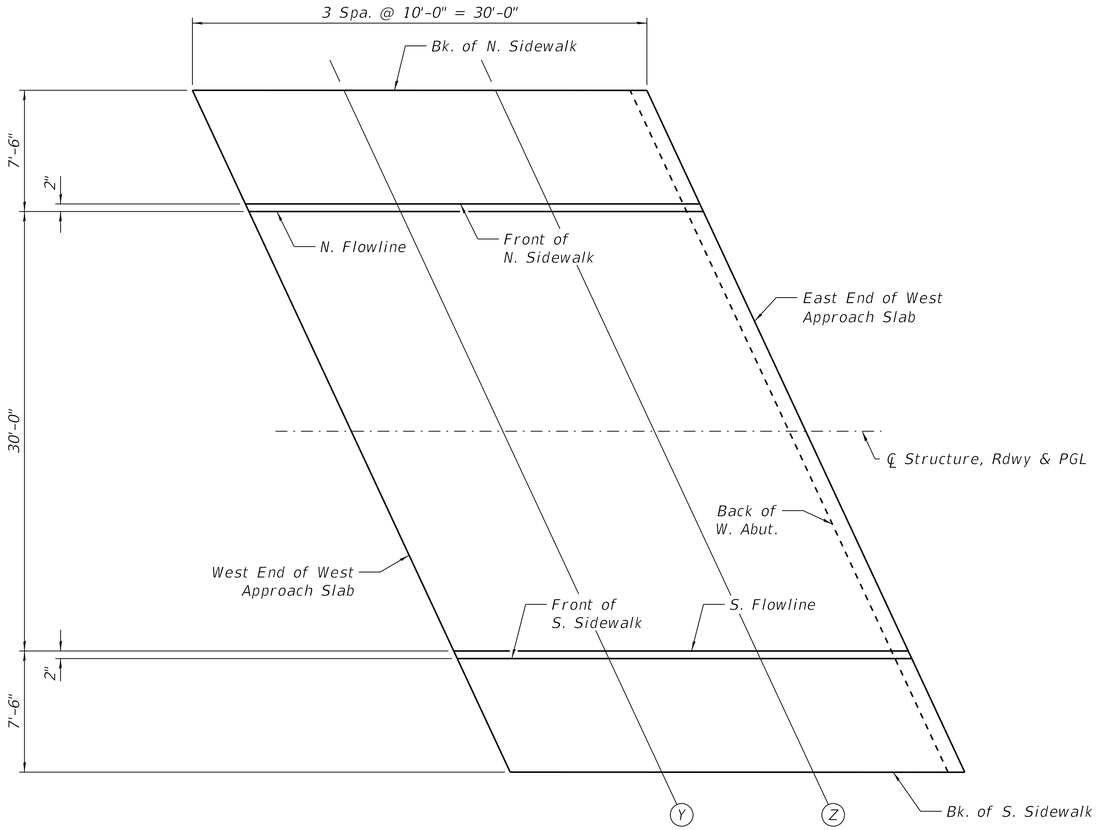
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	26
		CONTRACT NO. 87779		
		ILLINOIS	FED. AID PROJECT	

BACK OF NORTH SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
West End of W Appr. Slab	9+04.96	-22.50	844.57
Y	9+14.96	-22.50	844.77
Z	9+24.96	-22.50	844.96
East End of W Appr. Slab	9+34.96	-22.50	845.15

FRONT OF NORTH SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
West End of W Appr. Slab	9+08.38	-15.17	844.53
Y	9+18.38	-15.17	844.72
Z	9+28.38	-15.17	844.91
East End of W Appr. Slab	9+38.38	-15.17	845.11



PLAN



FRONT OF SOUTH SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
West End of W Appr. Slab	9+22.52	15.17	844.80
Y	9+32.52	15.17	844.99
Z	9+42.52	15.17	845.19
East End of E Appr. Slab	9+52.52	15.17	845.38

BACK OF SOUTH SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
West End of W Appr. Slab	9+25.94	22.50	844.98
Y	9+35.94	22.50	845.17
Z	9+45.94	22.50	845.36
East End of W Appr. Slab	9+55.94	22.50	845.55

Note: Elevations for Top of West Approach Sidewalks only, see Structural sheet S4 of S34 for Top of South Approach Slab Sidewalk Elevations.

FILE NAME = 200251-sht-bridge Lucinda.dgn
USER NAME = steves
PLOT SCALE =
PLOT DATE = 5/13/2022

DESIGNED - I.P.N.
DRAWN - A.C.
CHECKED - S.M.S.
DATE - 5/13/2022

REVISED -
REVISED -
REVISED -
REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3065 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

STATE OF ILLINOIS
CITY OF DEKALB

TOP OF WEST APPROACH SLAB SIDEWALKS ELEVATIONS
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S5 OF S34 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	27
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

NORTH EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
West End of E Appr. Slab	10+44.06	-22.50	844.67
A	10+54.06	-22.50	844.42
B	10+64.06	-22.50	844.02
East End of E Appr. Slab	10+74.06	-22.50	843.69

NORTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
West End of E Appr. Slab	10+47.56	-15.00	844.59
A	10+57.56	-15.00	844.32
B	10+67.56	-15.00	844.01
East End of E Appr. Slab	10+77.56	-15.00	843.69

℄ STRUCTURE ROADWAY & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
West End of E Appr. Slab	10+54.66	0.00	844.63
A	10+64.55	0.00	844.33
B	10+74.55	0.00	844.01
East End of E Appr. Slab	10+84.55	0.00	843.70

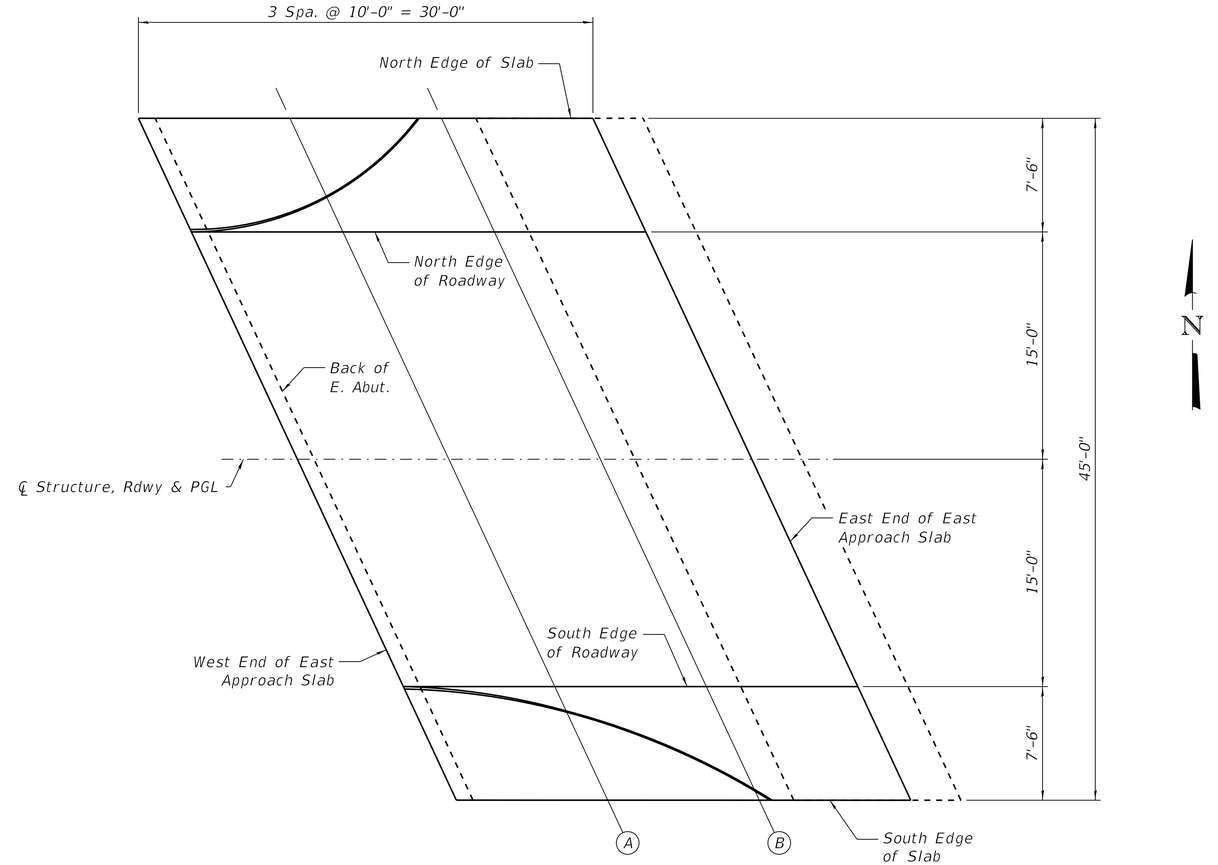
SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
West End of E Appr. Slab	10+61.55	15.00	844.20
A	10+71.55	15.00	843.88
B	10+81.55	15.00	843.78
East End of E Appr. Slab	10+91.55	15.00	843.69

SOUTH EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
West End of E Appr. Slab	10+65.04	22.50	844.20
A	10+75.04	22.50	843.89
B	10+85.04	22.50	843.57
East End of E Appr. Slab	10+95.04	22.50	843.50

Note: Elevations for Top of East Approach Slab only, see Structural Sheet S7 of S34 for Top of East Approach Slab Sidewalk Elevations.



PLAN

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS CITY OF DEKALB	TOP OF EAST APPROACH SLAB ELEVATIONS LUCINDA AVENUE - STRUCTURE NO. 019-6109
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - A.C.	REVISED -		SHEET NO. S6 OF S34 SHEETS
	PLOT SCALE =	CHECKED - S.M.S.	REVISED -		
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -		

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	28
		CONTRACT NO. 87779		
		ILLINOIS	FED. AID PROJECT	

BACK OF NORTH SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
West End of E Appr. Slab	10+44.06	-22.50	845.53
W	10+49.06	-22.50	845.32
X	10+54.06	-22.50	844.80
Y	10+59.06	-22.50	844.71
End of N Sidewalk	10+62.49	-22.50	844.56

FRONT OF NORTH SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
West End of E Appr. Slab	10+47.48	-15.17	845.34
W	10+52.22	-15.72	845.08
X	10+56.46	-17.35	844.82
Y	10+60.22	-20.02	844.67

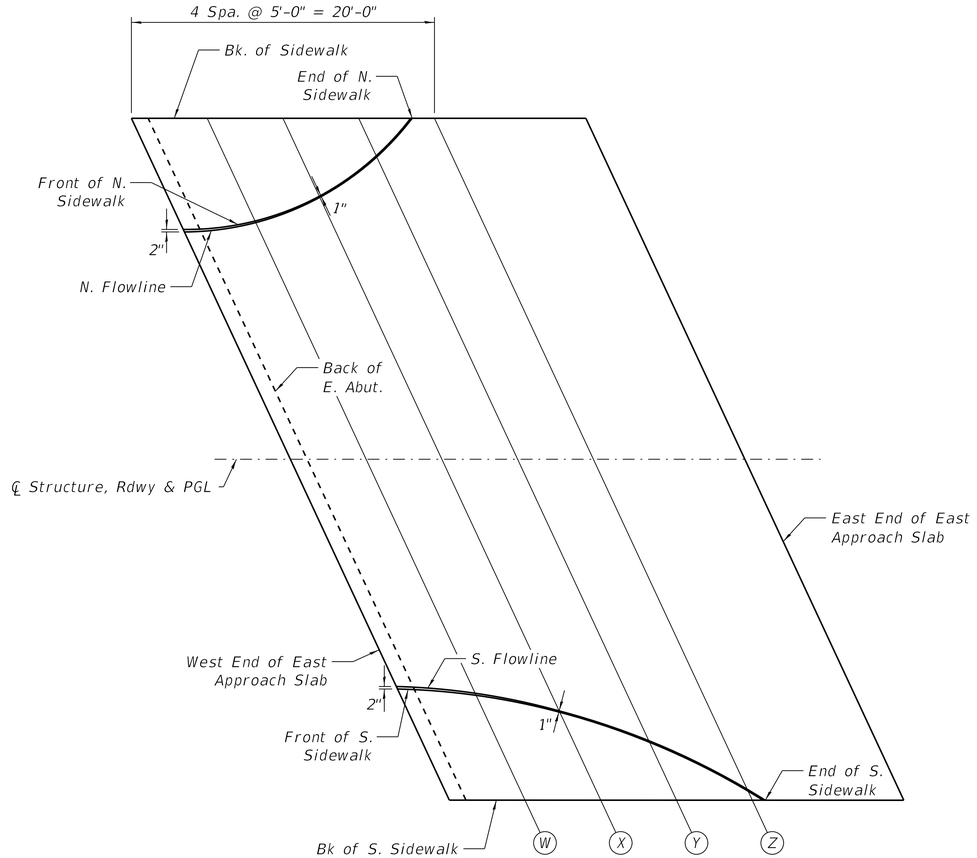
FRONT OF SOUTH SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
West End of E Appr. Slab	10+61.62	15.17	844.95
W	10+66.82	15.58	844.67
X	10+72.34	16.70	844.38
Y	10+78.26	18.68	844.23
Z	10+84.76	21.90	844.07

BACK OF SOUTH SIDEWALK

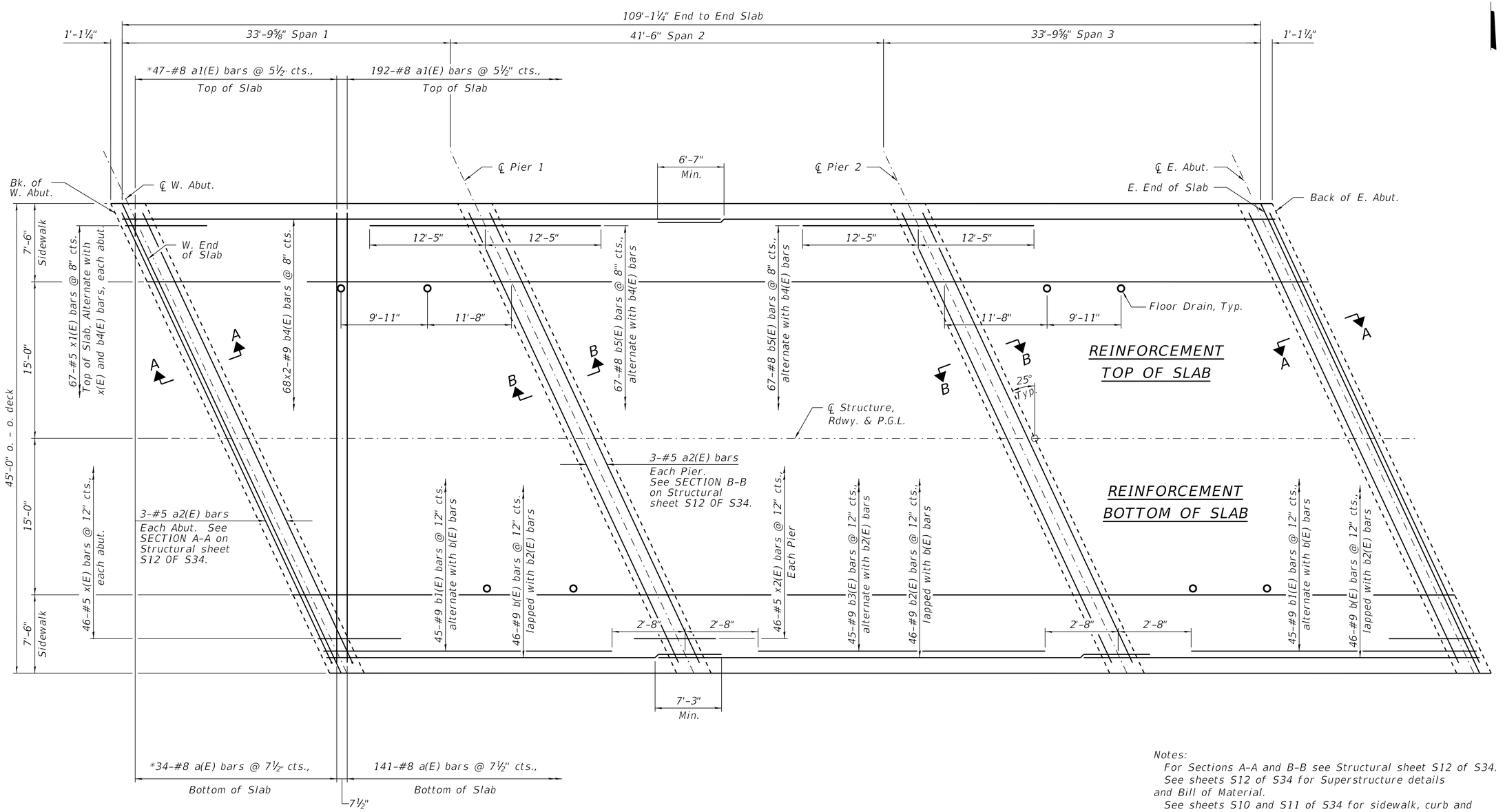
Location	Station	Offset	Theoretical Grade Elevations
West End of E Appr. Slab	10+65.04	22.50	844.95
W	10+70.04	22.50	844.67
X	10+75.04	22.50	844.39
Y	10+80.04	22.50	844.23
Z	10+85.04	22.50	844.07
End of S Sidewalk	10+85.75	22.50	844.05

Note: Elevations for Top of East Approach Slab Sidewalks only, see Structural Sheet S6 of S34 for Top of East Approach Slab Elevations.



PLAN

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS CITY OF DEKALB	TOP OF EAST APPROACH SLAB SIDEWALKS ELEVATIONS LUCINDA AVENUE - STRUCTURE NO. 019-6109	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - A.C.	REVISED -			5336	18-00193-00-BR	DEKALB	133	29
	PLOT SCALE =	CHECKED - S.M.S.	REVISED -						CONTRACT NO. 87779	
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -		SHEET NO. S7 OF S34 SHEETS			ILLINOIS	FED. AID PROJECT	



PLAN

Notes:
For Sections A-A and B-B see Structural sheet S12 of S34.
See sheets S12 of S34 for Superstructure details and Bill of Material.
See sheets S10 and S11 of S34 for sidewalk, curb and architectural column reinforcing.
Bars indicated thus 68x2-#9 etc. indicates 68 lines of bars with 2 lengths per line.

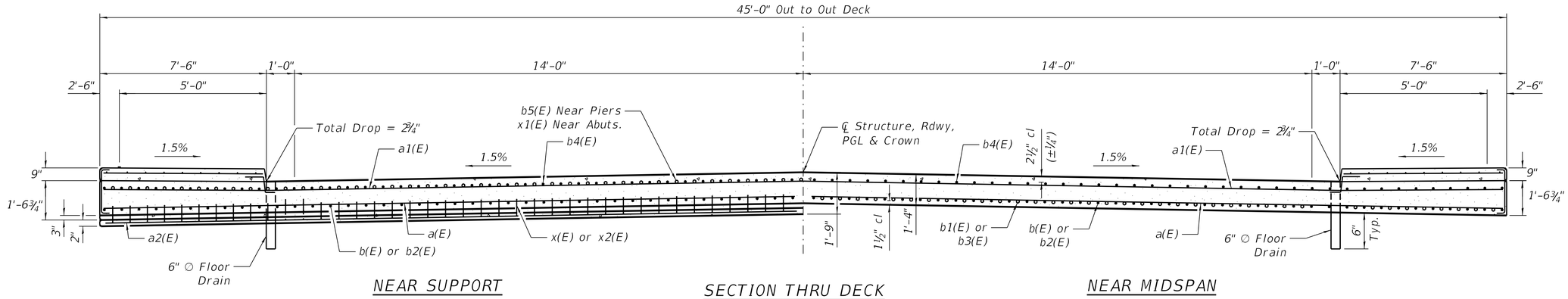
* Order a(E) and a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - A.C.	REVISED -
	PLOT SCALE =	CHECKED - S.M.S.	REVISED -
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -

STATE OF ILLINOIS
CITY OF DEKALB

SUPERSTRUCTURE
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S8 OF S34 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	30
		CONTRACT NO. 87779		
		ILLINOIS FED. AID PROJECT		

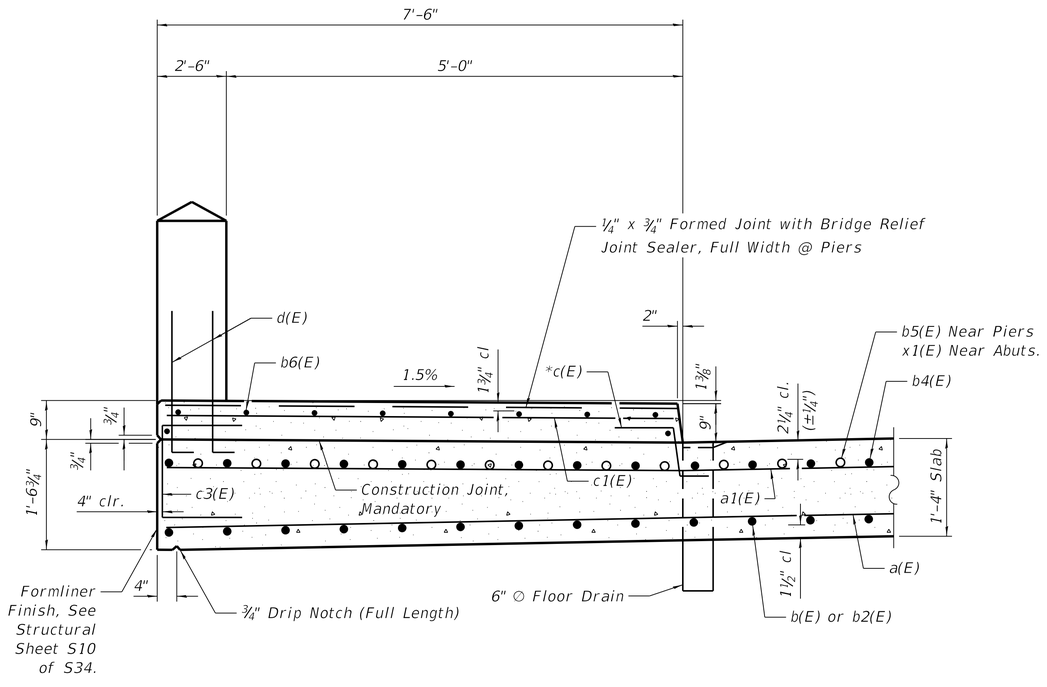


NEAR SUPPORT

SECTION THRU DECK

(Looking East)

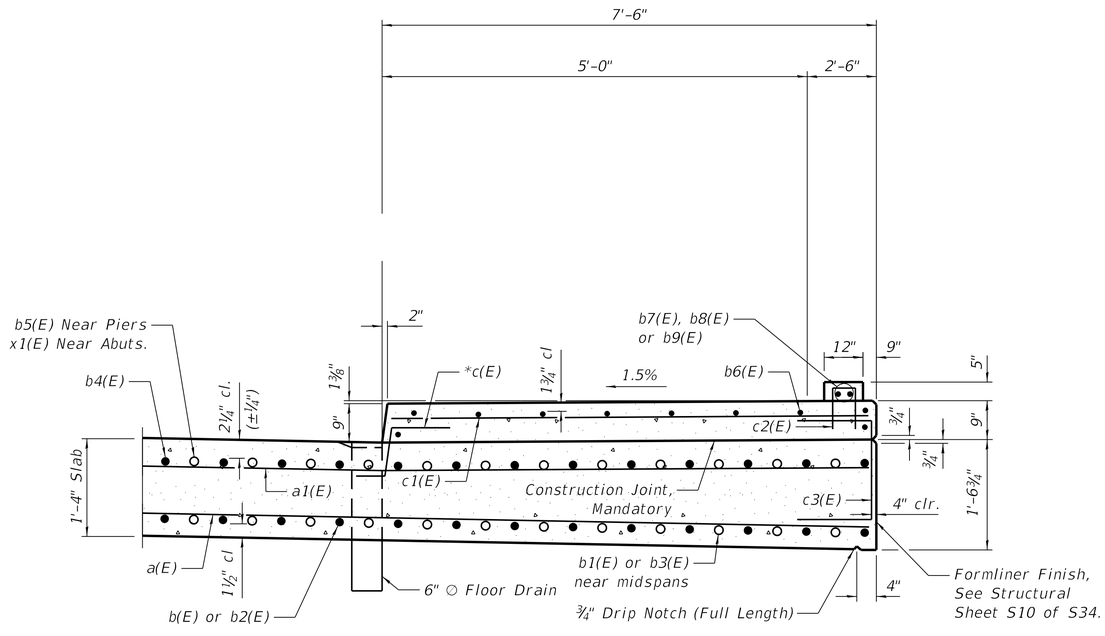
NEAR MIDSPAN



SECTION THRU

NORTH SIDEWALK (at Architectural Column)

(Looking East)



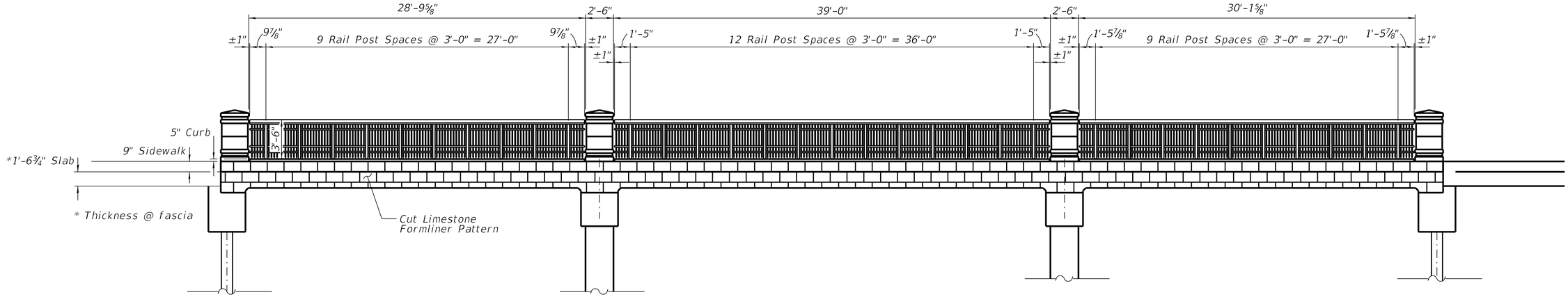
SECTION THRU

SOUTH SIDEWALK (Between Columns)

(Looking East)

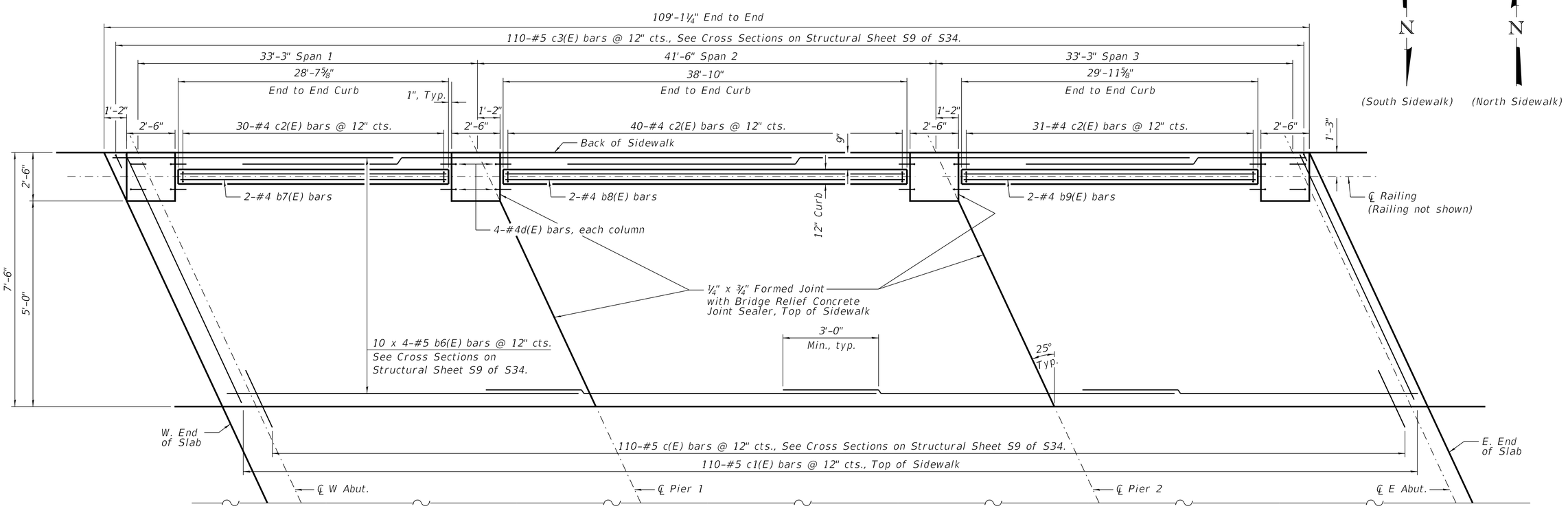
FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS CITY OF DEKALB	SUPERSTRUCTURE CROSS SECTIONS LUCINDA AVENUE - STRUCTURE NO. 019-6109 SHEET NO. S9 OF S34 SHEETS
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	DRAWN - A.C.	REVISED -		
	PLOT DATE = 5/13/2022	CHECKED - S.M.S.	REVISED -		
		DATE - 5/13/2022	REVISED -		

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	31
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		



ELEVATION

(Looking North @ North Rail & Columns, South Rail & Columns Similar)



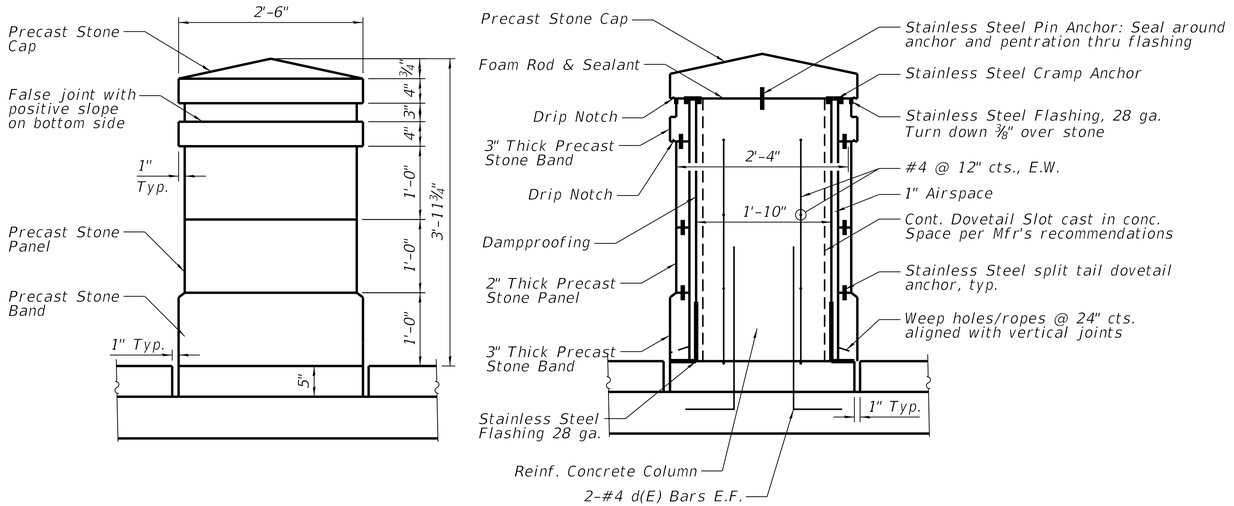
SIDEWALK AND COLUMNS PLAN

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - A.C.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.M.S.	REVISED -
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -

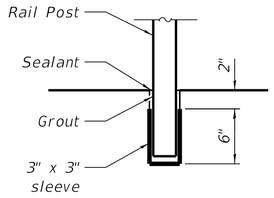
STATE OF ILLINOIS
CITY OF DEKALB

SIDEWALK/RAIL/COLUMNS PLAN & ELEVATION
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S10 OF S34 SHEETS

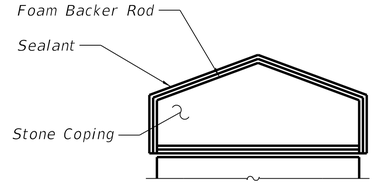
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	32
		CONTRACT NO. 87779		
		ILLINOIS	FED. AID PROJECT	



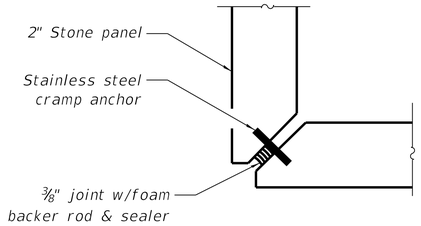
INTERIOR COLUMN ELEVATION AND SECTION



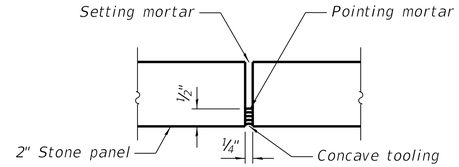
POST DETAIL



STONE COPING JOINTS

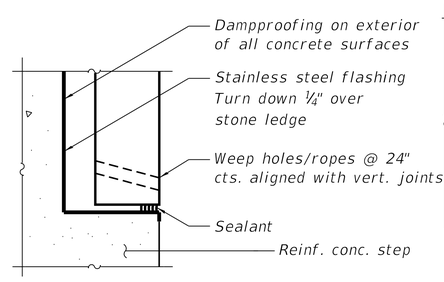


QUIRKED CORNER JOINT

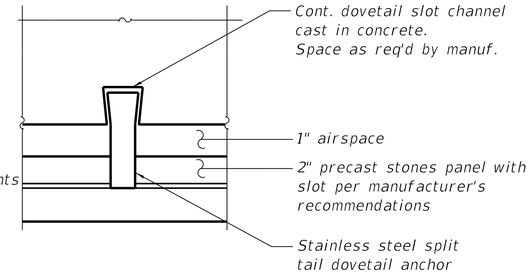


TYPICAL MORTAR JOINT

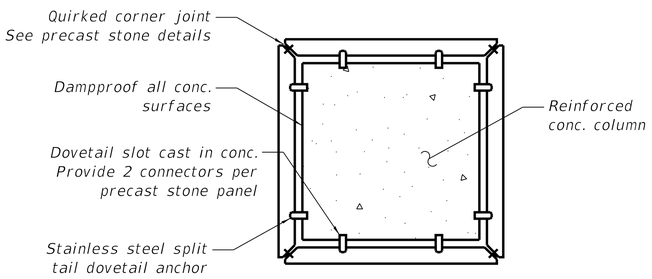
PRECAST STONE DETAILS



FLASHING DETAILS



ANCHORAGE DETAILS



PLAN DETAIL

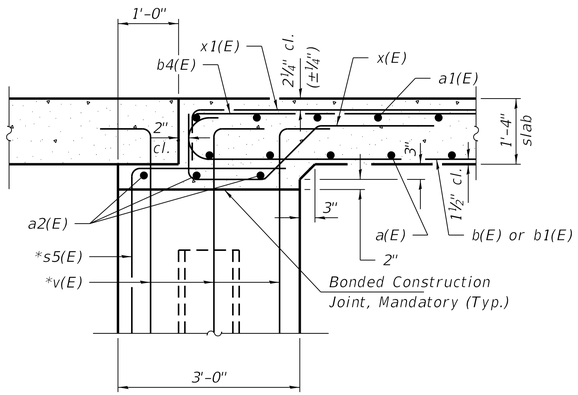
HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
		DRAWN - A.C.	REVISED -
	PLOT SCALE =	CHECKED - S.M.S.	REVISED -
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -

STATE OF ILLINOIS
CITY OF DEKALB

SUPERSTRUCTURE ARCHITECTURAL COLUMN DETAILS
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S11 OF S34 SHEETS

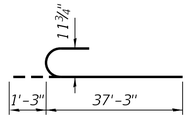
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	33
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			



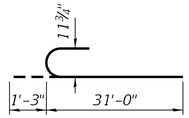
*See Structural sheets S19 and S20 0F S34 for Bill of Materials.

SECTION A-A

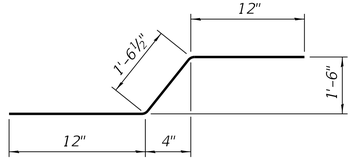
(Horiz. dim @ Rt ∠s)



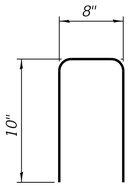
BAR b(E)



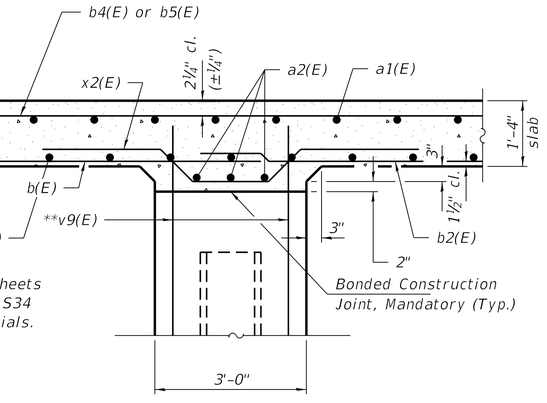
BAR b1(E)



BAR c(E)



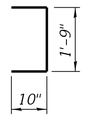
BAR c2(E)



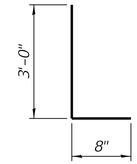
*See Structural sheets S21 and S22 0F S34 for Bill of Materials.

SECTION B-B

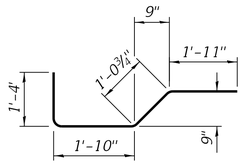
(Horiz. dim @ Rt ∠s)



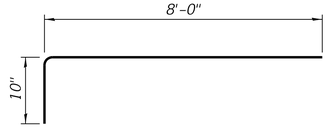
BAR c3(E)



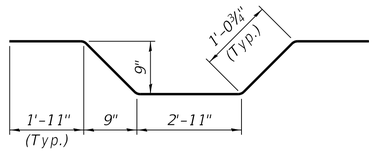
BAR d(E)



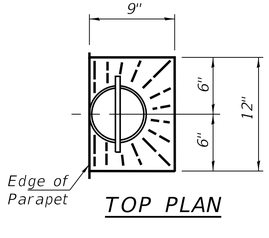
BAR x(E)



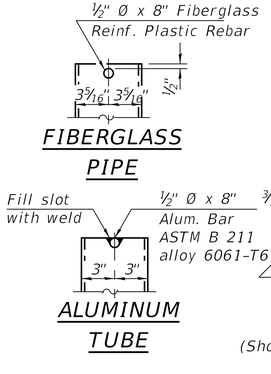
BAR x1(E)



BAR x2(E)

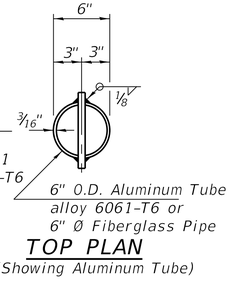


TOP PLAN



FIBERGLASS PIPE

ALUMINUM TUBE



TOP PLAN

(Showing Aluminum Tube)

SUPERSTRUCTURE BILL OF MATERIAL

	BAR	NO.	SIZE	LENGTH	SHAPE
	a(E)	175	#8	44'-4"	
	a1(E)	239	#8	44'-4"	
	a2(E)	12	#5	48'-11"	
	b(E)	92	#9	38'-6"	
	b1(E)	90	#9	32'-3"	
	b2(E)	46	#9	48'-9"	
	b3(E)	45	#9	36'-2"	
	b4(E)	136	#9	57'-8"	
	b5(E)	134	#8	24'-10"	
	b6(E)	80	#5	29'-6"	
	b7(E)	4	#4	28'-3"	
	b8(E)	4	#4	38'-6"	
	b9(E)	4	#4	29'-7"	
	c(E)	220	#5	3'-7"	
	c1(E)	220	#5	7'-6"	
	c2(E)	202	#4	2'-4"	
	c3(E)	220	#5	3'-5"	
	d(E)	32	#4	3'-8"	
	x(E)	92	#5	6'-2"	
	x1(E)	134	#5	8'-10"	
	x2(E)	92	#5	8'-11"	
	Floor Drains			Each	8
	Concrete Superstructure			Cu. Yd.	303.7
	Bridge Deck Grooving			Sq. Yd.	364
*	Form Liner Textured Surface			Sq. Ft.	480
	Protective Coat			Sq. Yd.	564
	Reinforcement Bars, Epoxy Coated			Pound	129,360
*	Ornamental Railing			L Sum	1

* See Special Provisions

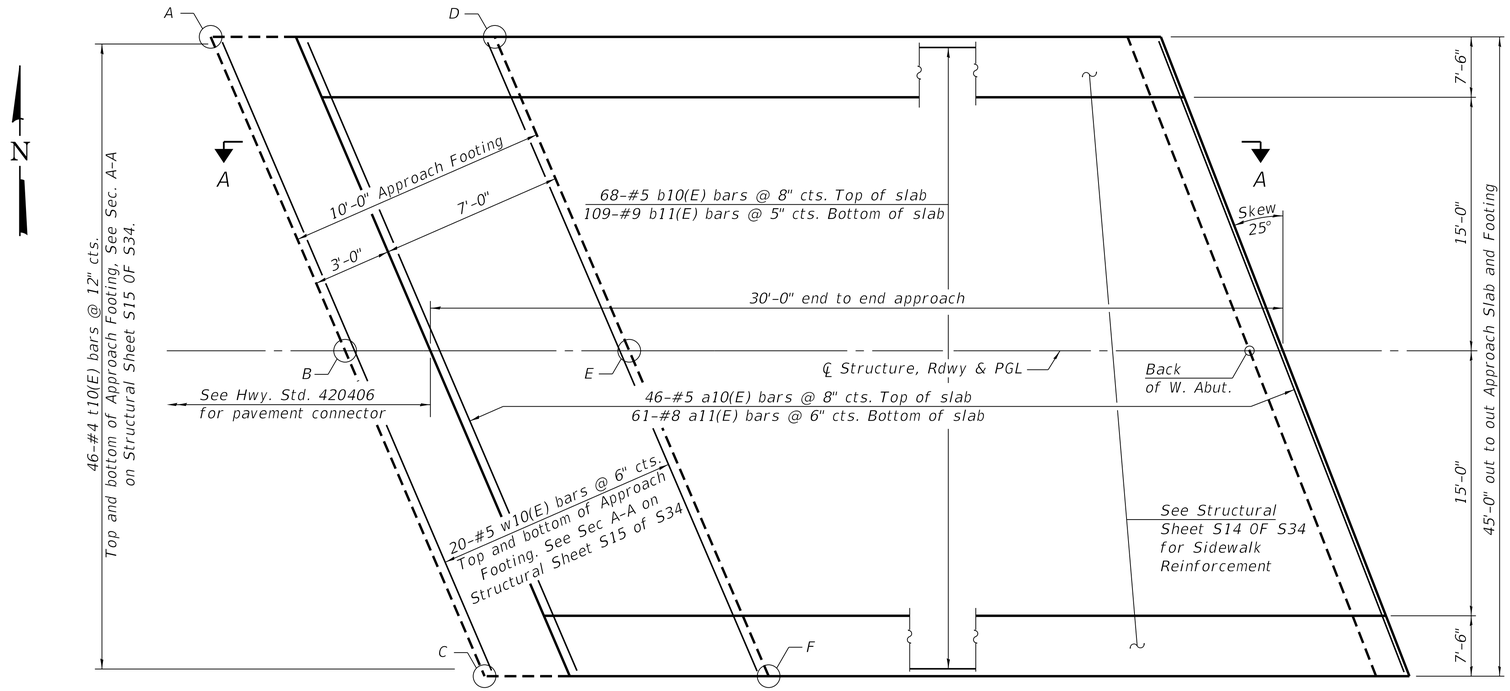
HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
		DRAWN - A.C.	REVISED -
	PLOT SCALE =	CHECKED - S.M.S.	REVISED -
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -

STATE OF ILLINOIS
CITY OF DEKALB

SUPERSTRUCTURE DETAILS
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S12 OF S34 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	34
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			

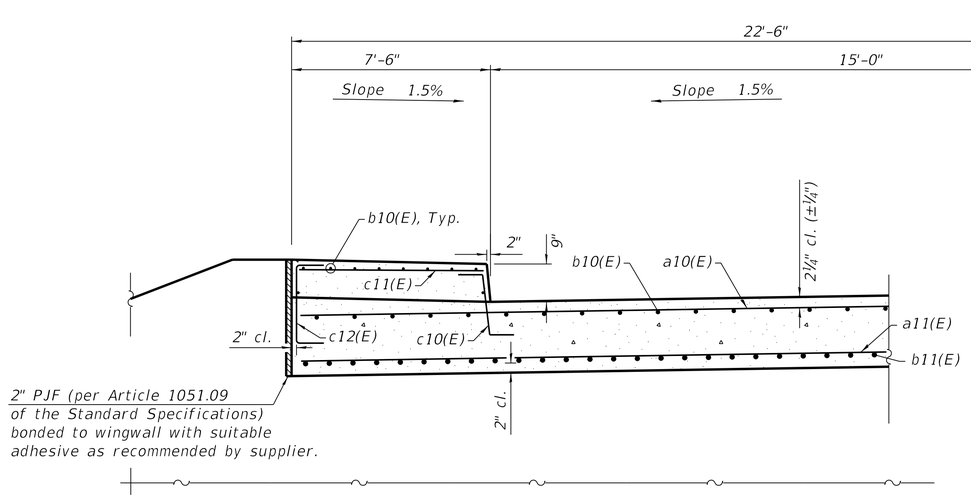


N

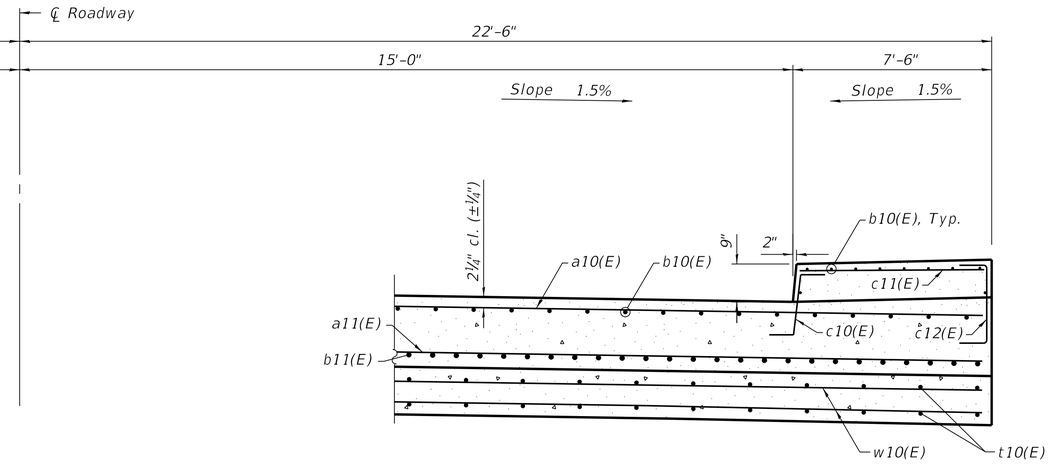
PLAN

TOP AND BOTTOM ELEVATIONS FOR WEST APPROACH FOOTING

W. Approach		
Point/ Location	Top	Bottom
A	842.29	841.45
B	842.82	841.99
C	842.69	841.86
D	842.50	841.66
E	843.04	842.20
F	842.90	842.07



NEAR ABUTMENT



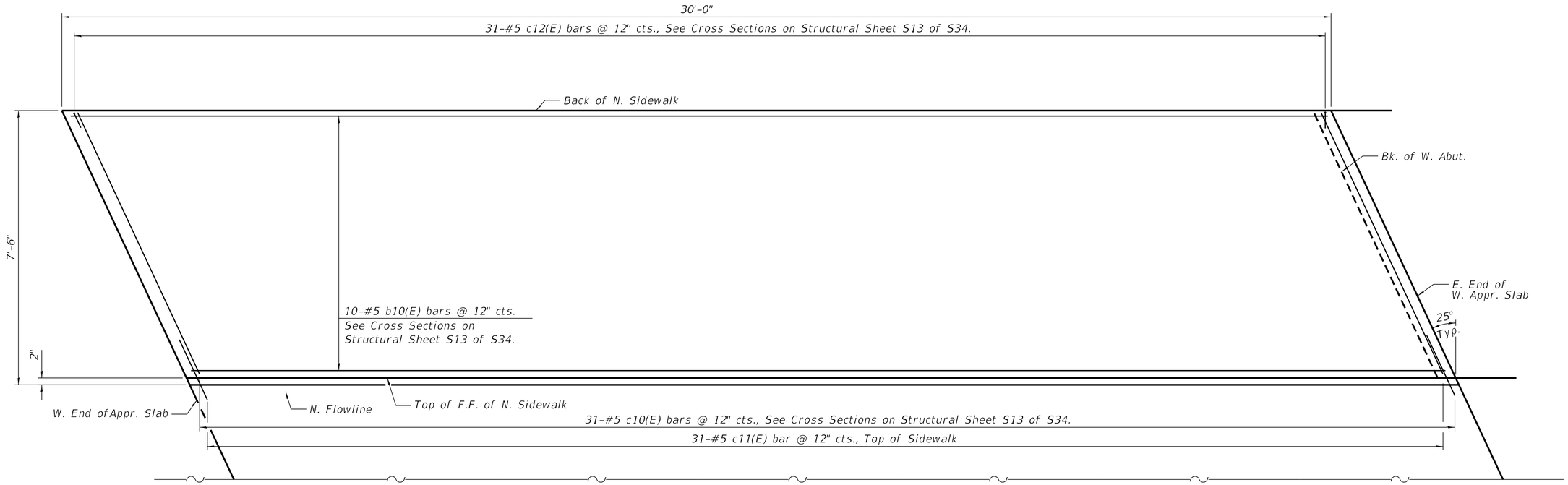
CROSS SECTION
(Looking East)

AT APPROACH FOOTING

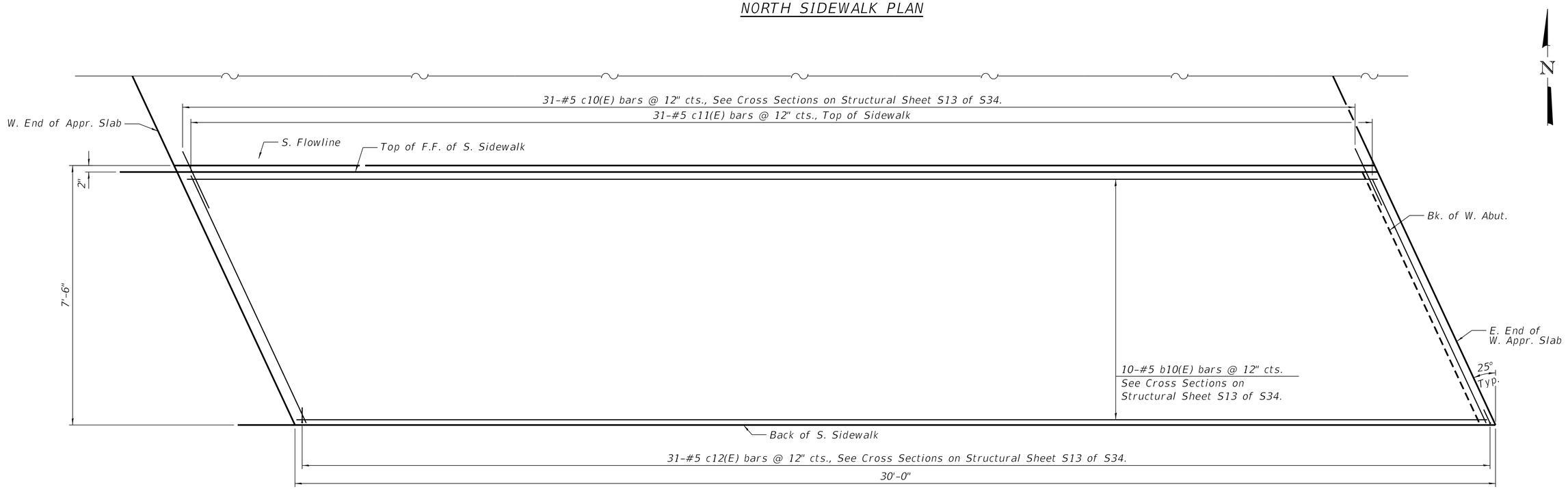
~~BAIA-CIP-39CS-R(≤30°) 10-12-2021~~

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS CITY OF DEKALB	WEST BRIDGE APPROACH SLAB LUCINDA AVENUE - STRUCTURE NO. 019-6109
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - A.C.	REVISED -		
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.M.S.	REVISED -		SHEET NO. S13 OF S34 SHEETS
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -		

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	35
		CONTRACT NO. 87779		
		ILLINOIS	FED. AID PROJECT	



NORTH SIDEWALK PLAN



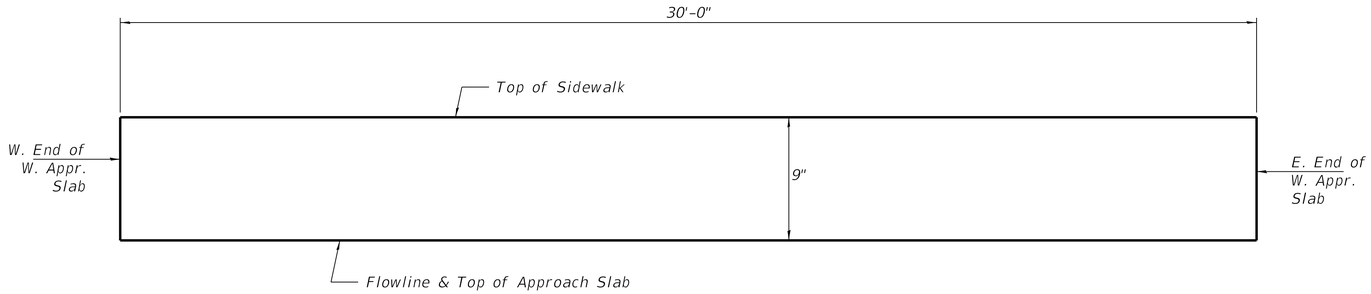
SOUTH SIDEWALK PLAN

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - A.C.	REVISED -
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.M.S.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -

STATE OF ILLINOIS
CITY OF DEKALB

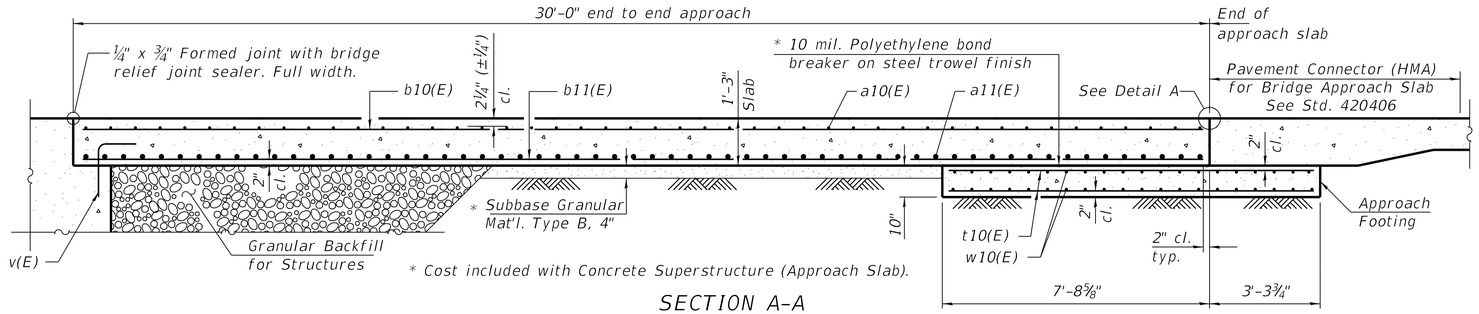
WEST BRIDGE APPROACH SLAB SIDEWALK DETAILS
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S14 OF S34 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	36
		CONTRACT NO. 87779		
		ILLINOIS	FED. AID PROJECT	

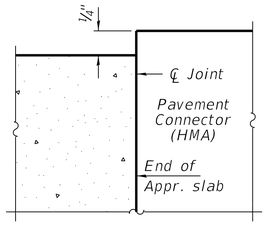


INSIDE ELEVATION OF SIDEWALKS

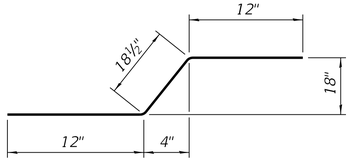
Notes:
Sidewalk concrete shall be paid for as Concrete Superstructure (Approach Slab).
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see structural sheets S2 and S19 of S34.



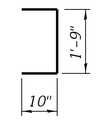
SECTION A-A



DETAIL A



BAR c10(E)



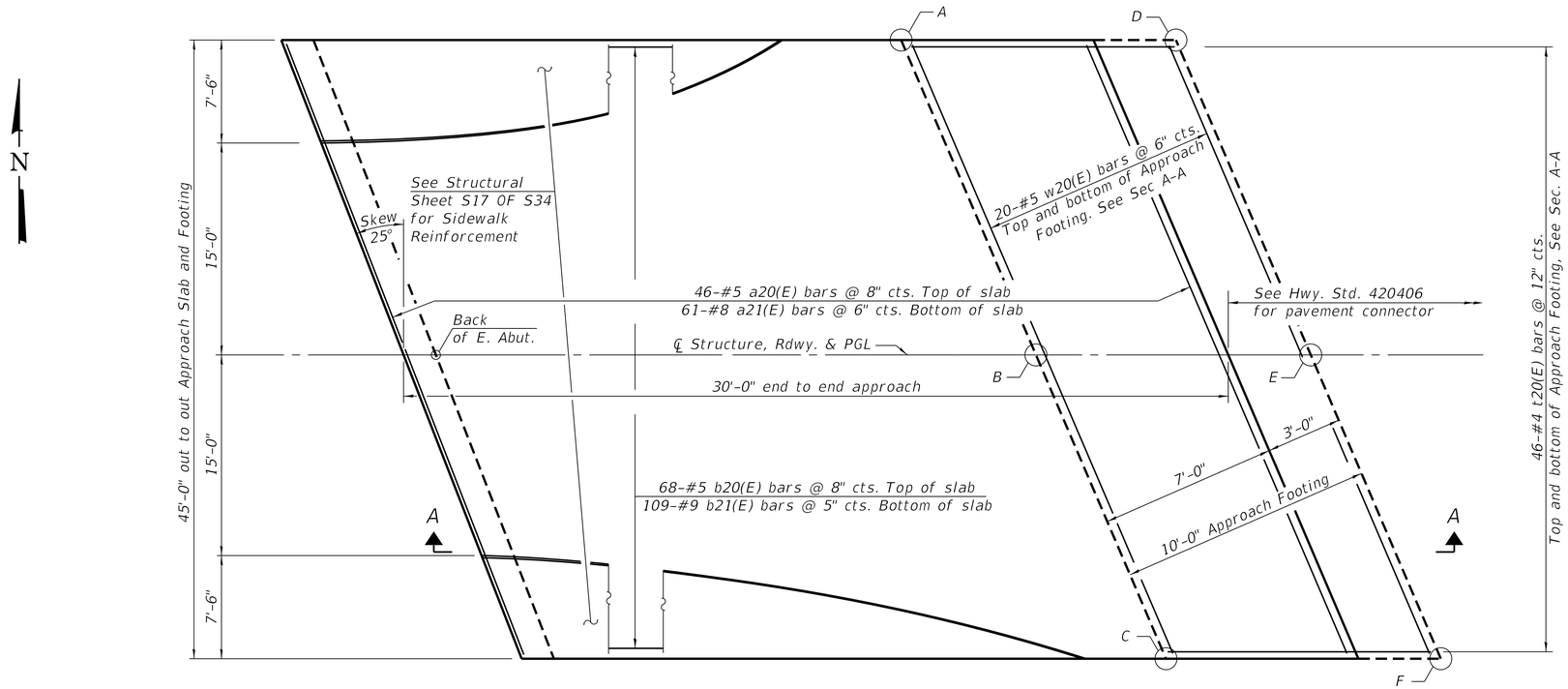
BAR c12(E)

WEST APPROACH SLAB & SIDEWALKS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	46	#5	49'-3"	
a11(E)	61	#8	49'-3"	
b10(E)	88	#5	29'-8"	
b11(E)	109	#9	29'-8"	
c10(E)	62	#5	3'-7"	
c11(E)	62	#5	7'-8"	
c12(E)	62	#5	3'-5"	
t10(E)	92	#4	10'-8"	
w10(E)	40	#5	49'-3"	
Concrete Structures			Cu. Yd.	15.3
Bridge Deck Grooving			Sq. Yd.	100
Protective Coat			Sq. Yd.	155
Concrete Superstructure (Approach Slab)			Cu. Yd.	75.8
Reinforcement Bars, Epoxy Coated			Pound	27,780

~~BAIA-CIP-39CS-R(≤30°) 10-12-2021~~

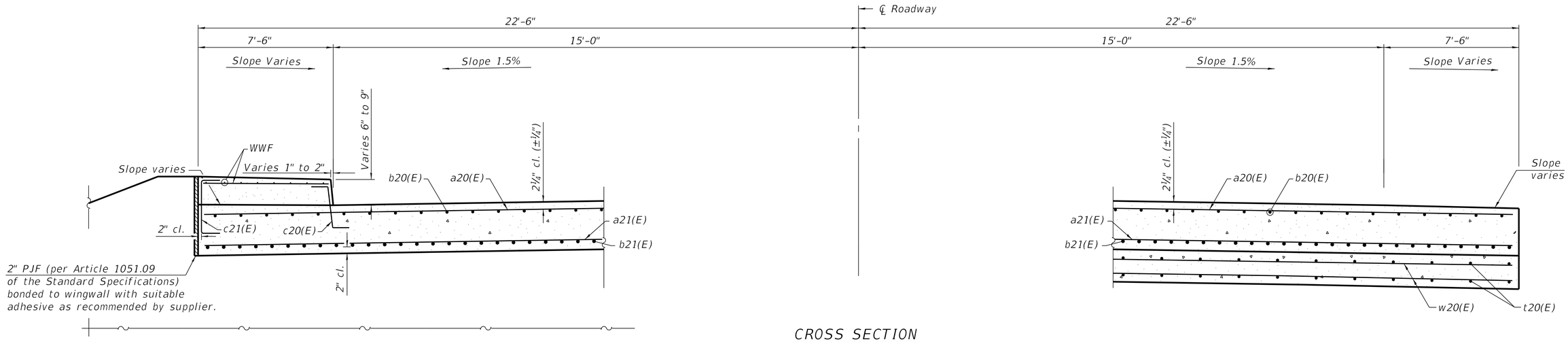
FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS CITY OF DEKALB	WEST BRIDGE APPROACH SLAB DETAILS LUCINDA AVENUE - STRUCTURE NO. 019-6109	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - A.C.	REVISED -			5336	18-00193-00-BR	DEKALB	133	37
	PLOT SCALE =	CHECKED - S.M.S.	REVISED -					CONTRACT NO. 87779		
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -		SHEET NO. S15 OF S34 SHEETS			ILLINOIS	FED. AID PROJECT	



TOP AND BOTTOM ELEVATIONS FOR EAST APPROACH FOOTING

E. Approach		
Point/ Location	Top	Bottom
A	842.69	841.86
B	842.69	841.86
C	842.30	841.47
D	842.33	841.50
E	842.34	842.51
F	842.23	842.39

PLAN



NEAR ABUTMENT

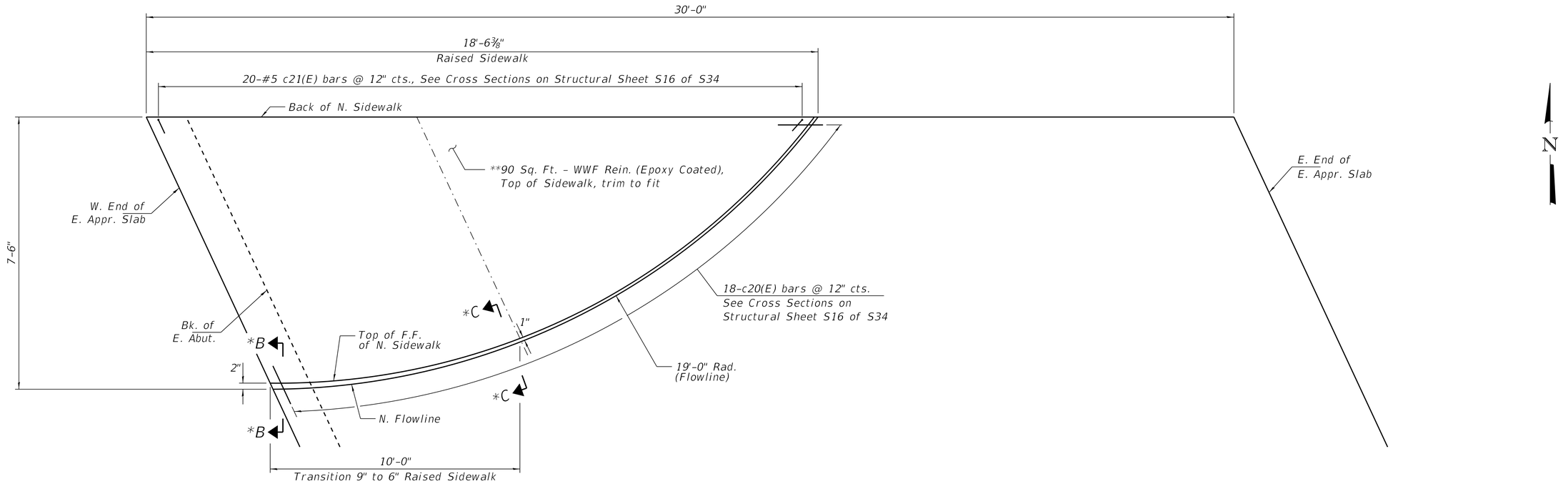
CROSS SECTION
(Looking East)

AT APPROACH FOOTING

~~BAIA-CIP-39CS-R(≤30°) 10-12-2021~~

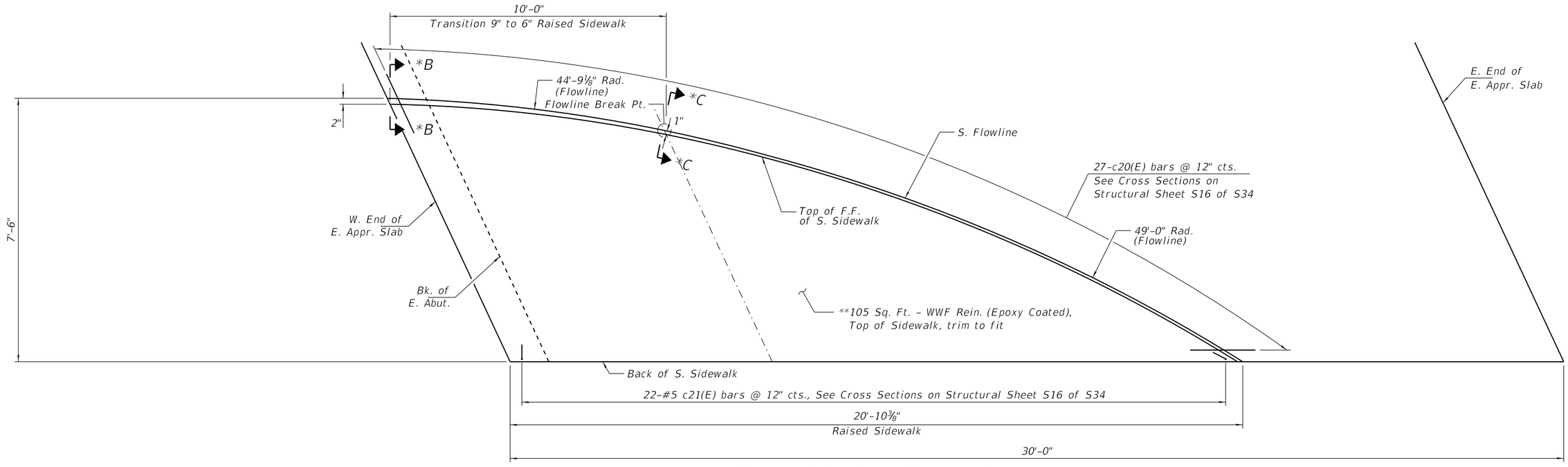
FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS CITY OF DEKALB	EAST BRIDGE APPROACH SLAB LUCINDA AVENUE - STRUCTURE NO. 019-6109
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - A.C.	REVISED -		
	PLOT SCALE =	CHECKED - S.M.S.	REVISED -		SHEET NO. S16 OF S34 SHEETS
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -		

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	38
		CONTRACT NO. 87779		
		ILLINOIS FED. AID PROJECT		



* See Structural Sheet S18 of S34 for SECTION B-B & C-C.

** Weld Wire Fabric Reinforcement shall be 12in. x12in. - D31xD31, Weighing 210 lbs. per 100 Sq. Ft. Laps splices shall be a minimum of 3'-0". WWF reinforcement shall be epoxy coated according to Art. 1006.10(b)(1)b of the Standard Specifications.



EAST APPROACH SLAB SIDEWALKS

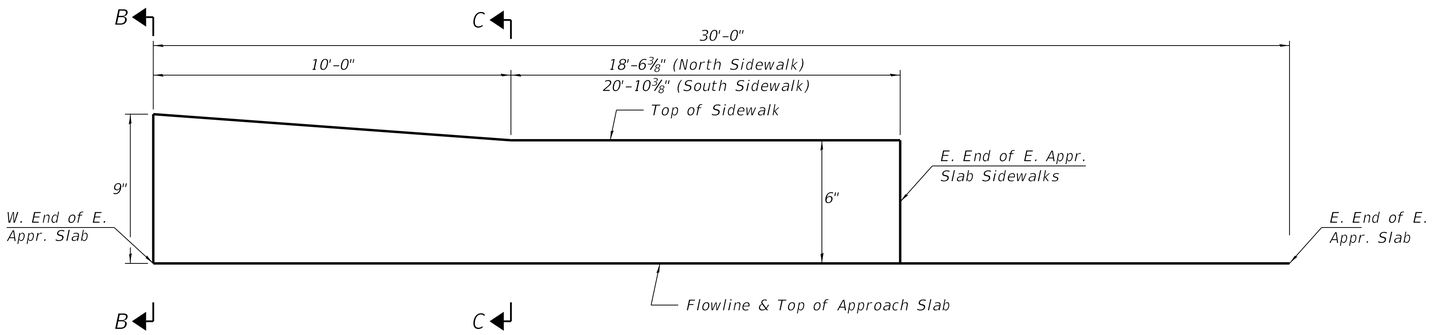
FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - A.C.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.M.S.	REVISED -
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -

STATE OF ILLINOIS
CITY OF DEKALB

EAST BRIDGE APPROACH SLAB SIDEWALK DETAILS
LUCINDA AVENUE - STRUCTURE NO. 019-6109

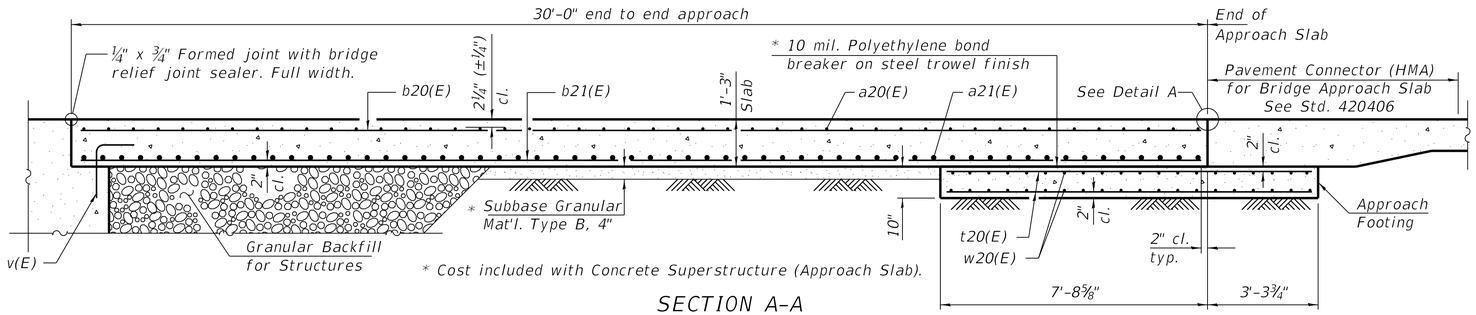
SHEET NO. S17 OF S34 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	39
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

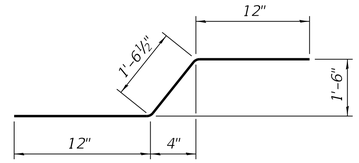


INSIDE ELEVATION OF SIDEWALKS

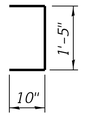
Notes:
Sidewalk concrete shall be paid for as Concrete Superstructure (Approach Slab).
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see structural sheet S2 and S20 of S34



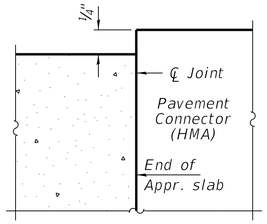
SECTION A-A



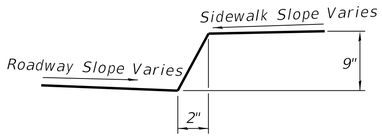
BAR c20(E)



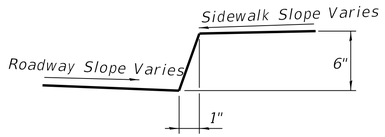
BAR c21(E)



DETAIL A



SECTION B-B



SECTION C-C

EAST APPROACH
SLAB & SIDEWALKS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a20(E)	46	#5	49'-3"	———
a21(E)	61	#8	49'-3"	———
b20(E)	68	#5	29'-8"	———
b21(E)	109	#9	29'-8"	———
c20(E)	45	#5	3'-7"	
c21(E)	42	#5	3'-1"	
t20(E)	92	#4	10'-8"	———
w20(E)	40	#5	49'-3"	———
WWF(E)	195 Sq. Ft.	D31xD3	12"x12"	#
Concrete Structures			Cu. Yd.	15.3
Bridge Deck Grooving			Sq. Yd.	100
Concrete Superstructure (Approach Slab)			Cu. Yd.	67.0
Protective Coat			Sq. Yd.	153
Reinforcement Bars, Epoxy Coated			Pound	26,920

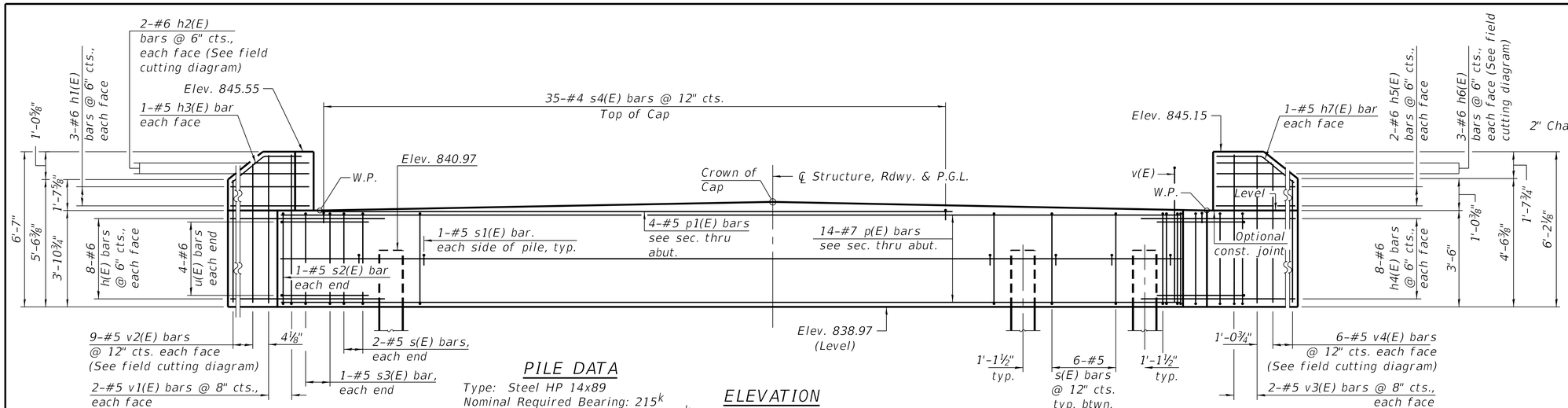
~~BAIA-CIP-39CS-R(≤30°) 10-12-2021~~

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - A.C.	REVISED -
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.M.S.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -

STATE OF ILLINOIS
CITY OF DEKALB

EAST BRIDGE APPROACH SLAB DETAILS
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S18 OF S34 SHEETS

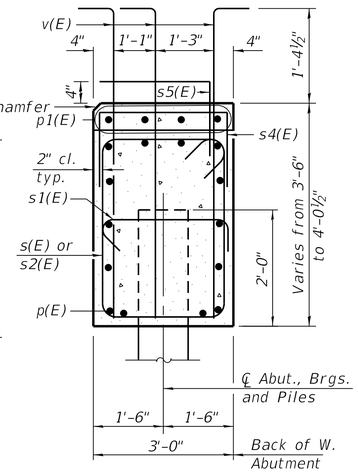
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	40
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		



ELEVATION

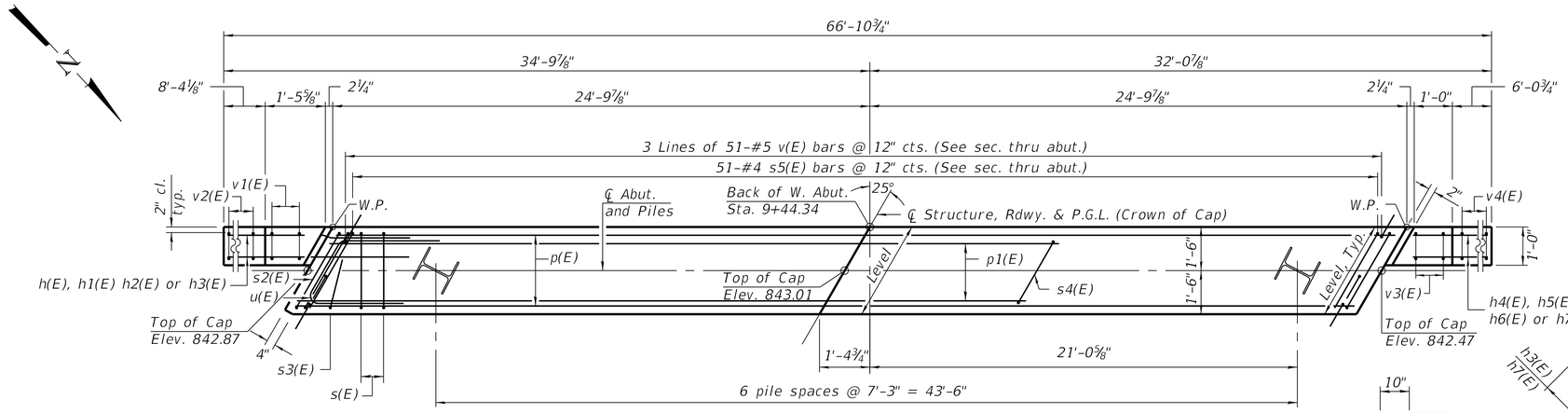
PILE DATA

Type: Steel HP 14x89
Nominal Required Bearing: 215^{k}
Factored Resistance Available: 118^{k}
Est. Length: 36 ft.
No. Production Piles: 6
No. Test Piles: 1

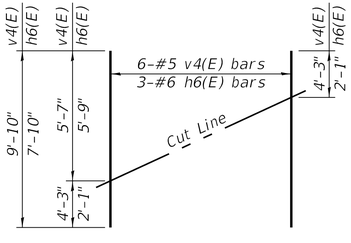


SEC. THRU ABUT.

Dimensions @ right angles to abutment.

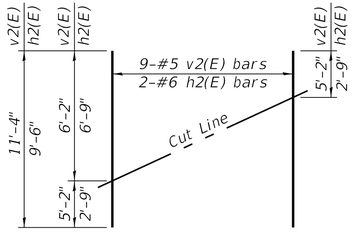


PLAN



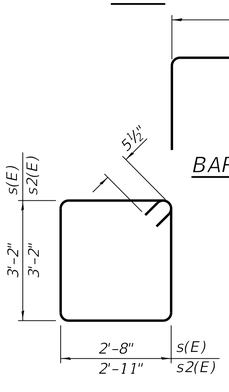
NORTH WINGWALL FIELD CUTTING DIAGRAM

Order v4(E) and h6(E) full length. Cut as shown and use remainder of bars in opposite face.



SOUTH WINGWALL FIELD CUTTING DIAGRAM

Order v2(E) and h2(E) full length. Cut as shown and use remainder of bars in opposite face.



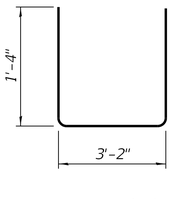
BAR s4(E)

BAR s(E) & s2(E)

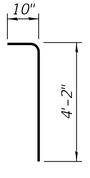


BAR s5(E)

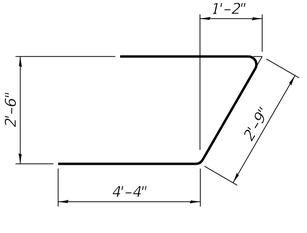
BAR s1(E)



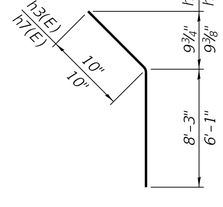
BAR s3(E)



BAR v(E)



BAR u(E)



BAR h3(E) & h7(E)

BILL OF MATERIAL - W. ABUT.

Bar	No.	Size	Length	Shape
h(E)	16	#6	13'-2"	
h1(E)	6	#6	9'-0"	
h2(E)	2	#6	9'-6"	
h3(E)	2	#5	9'-1"	
h4(E)	16	#6	10'-5"	
h5(E)	4	#6	6'-8"	
h6(E)	3	#6	7'-10"	
h7(E)	2	#5	6'-11"	
p(E)	14	#7	49'-3"	
p1(E)	4	#5	34'-1"	
s(E)	40	#5	12'-7"	
s1(E)	14	#5	3'-8"	
s2(E)	2	#5	13'-1"	
s3(E)	2	#5	5'-10"	
s4(E)	35	#4	7'-9"	
s5(E)	51	#4	3'-11"	
u(E)	8	#6	11'-5"	
v(E)	153	#5	5'-0"	
v1(E)	4	#5	6'-3"	
v2(E)	9	#5	11'-4"	
v3(E)	4	#5	5'-10"	
v4(E)	6	#5	9'-10"	

Structure Excavation	Cu. Yd.	92
Concrete Structures	Cu. Yd.	25.1
Protective Coat	Sq. Yd.	6
Reinforcement Bars, Epoxy Coated	Pound	4,430
Furnishing Steel Piles, HP 14x89	Foot	216
Driving Piles	Foot	216
Test Pile Steel HP14x89	Each	1
Pile Shoes	Each	7
Name Plates	Each	1
Granular Backfill for Structures	Cu. Yd.	64
Geocomposite Wall Drain	Sq. Yd.	33
Pipe Underdrains for Strucures, 4"	Foot	77

For details of piles see Structural sheet S23 of S34.

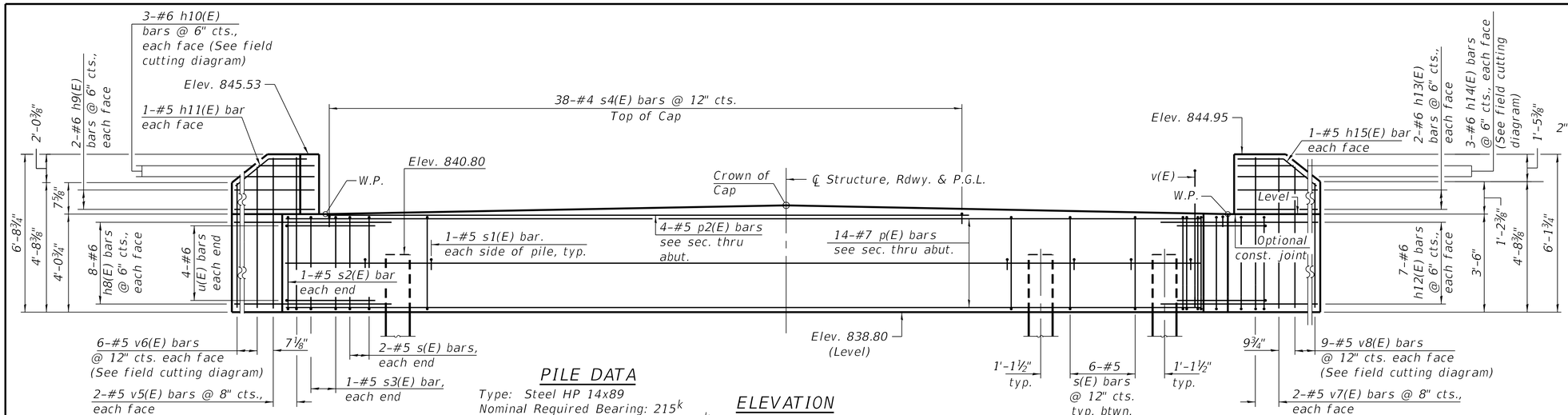
~~AIS-R~~ ~~6-15-2019~~

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - A.C.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.M.S.	REVISED -
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -

STATE OF ILLINOIS
CITY OF DEKALB

WEST ABUTMENT
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S19 OF S34 SHEETS

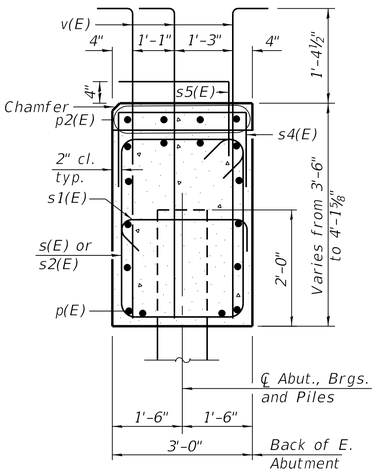
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	41
		CONTRACT NO. 87779		
		ILLINOIS	FED. AID PROJECT	



PILE DATA

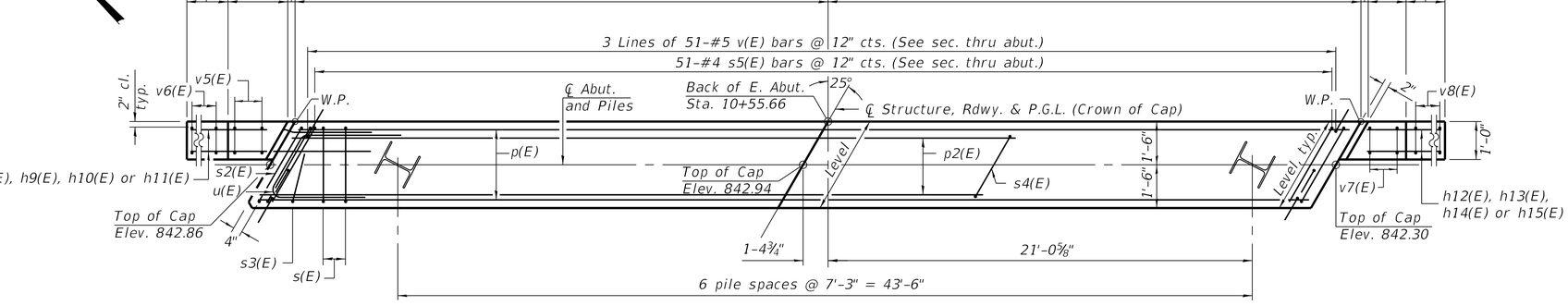
Type: Steel HP 14x89
Nominal Required Bearing: 215^{k}
Factored Resistance Available: 118^{k}
Est. Length: 30 ft.
No. Production Piles: 6
No. Test Piles: 1

ELEVATION

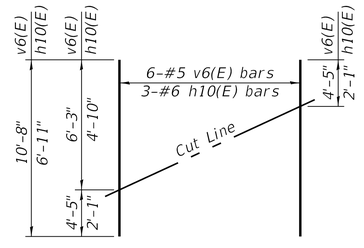


SEC. THRU ABUT.

Dimensions @ right angles to abutment.

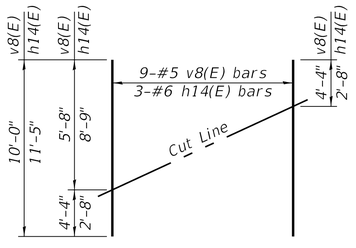


PLAN



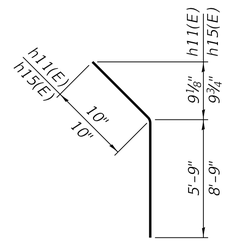
NORTH WINGWALL FIELD CUTTING DIAGRAM

Order v6(E) and h10(E) full length.
Cut as shown and use remainder of bars in opposite face.



SOUTH WINGWALL FIELD CUTTING DIAGRAM

Order v8(E) and h14(E) full length.
Cut as shown and use remainder of bars in opposite face.



BAR h11(E) & h15(E)

BILL OF MATERIAL - E. ABUT.

	Bar	No.	Size	Length	Shape
	h8(E)	16	#6	10'-5"	
	h9(E)	4	#6	6'-3"	
	h10(E)	3	#6	6'-11"	
	h11(E)	2	#5	6'-7"	
	h12(E)	14	#6	13'-2"	
	h13(E)	4	#6	9'-5"	
	h14(E)	3	#6	11'-5"	
	h15(E)	2	#5	9'-7"	
	p(E)	14	#7	49'-3"	
	p2(E)	4	#5	36'-3"	
*	s(E)	40	#5	12'-7"	
*	s1(E)	14	#5	3'-8"	
*	s2(E)	2	#5	13'-1"	
*	s3(E)	2	#5	5'-10"	
*	s4(E)	38	#4	7'-9"	
*	s5(E)	51	#4	3'-11"	
*	u(E)	8	#6	11'-5"	
*	v(E)	153	#5	5'-0"	
	v5(E)	4	#5	6'-4"	
	v6(E)	6	#5	10'-8"	
	v7(E)	4	#5	5'-9"	
	v8(E)	9	#5	10'-0"	

Structure Excavation	Cu. Yd.	93
Concrete Structures	Cu. Yd.	25.5
Protective Coat	Sq. Yd.	6
Reinforcement Bars, Epoxy Coated	Pound	4,400
Furnishing Steel Piles, HP14x89	Foot	180
Driving Piles	Foot	180
Test Pile, Steel HP14x89	Each	1
Pile Shoes	Each	7
Granular Backfill for Structures	Cu. Yd.	64
Geocomposite Wall Drain	Sq. Yd.	33
Pipe Underdrains for Structures, 4"	Foot	77

For details of piles see Structural sheet S23 of S34.

*See Structural sheet S19 of S34 for bar details.

~~AIS-R~~ ~~6-15-2019~~

FILE NAME = 200251-sht-bridge Lucinda.dgn
USER NAME = steves
PLOT SCALE =
PLOT DATE = 5/13/2022

DESIGNED - I.P.N.
DRAWN - A.C.
CHECKED - S.M.S.
DATE - 5/13/2022

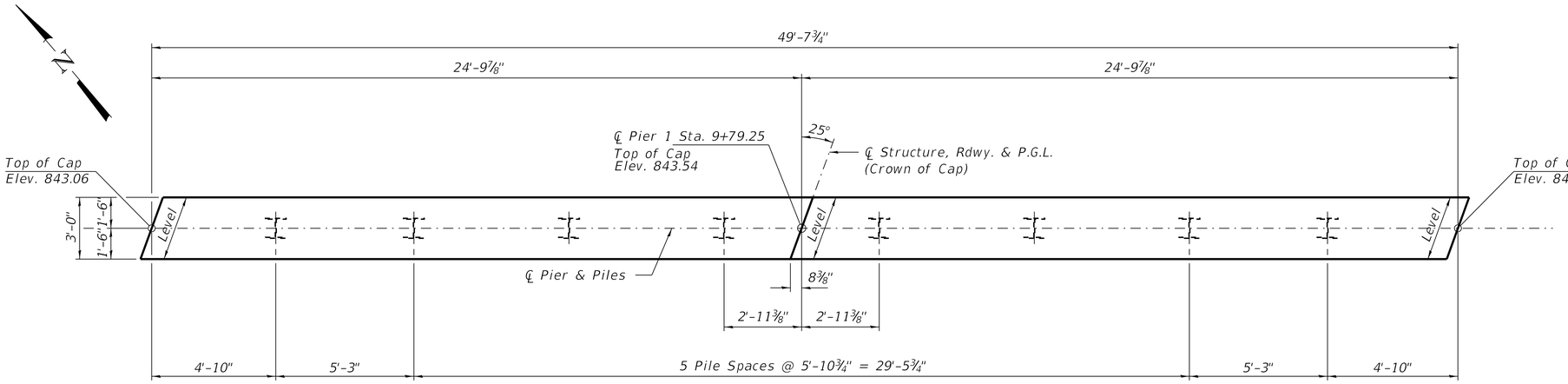
REVISED -
REVISED -
REVISED -
REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

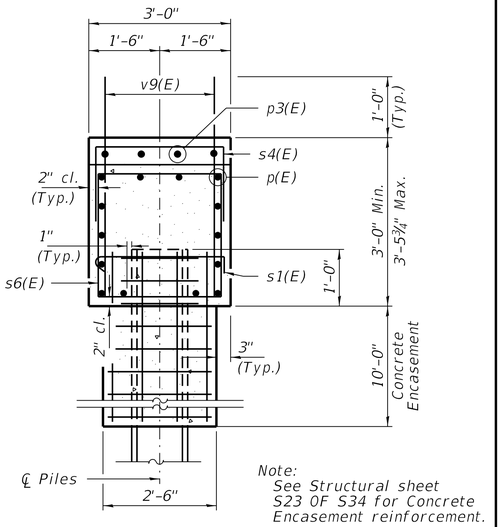
STATE OF ILLINOIS
CITY OF DEKALB

EAST ABUTMENT
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S20 OF S34 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	42
		CONTRACT NO. 87779		
		ILLINOIS	FED. AID PROJECT	



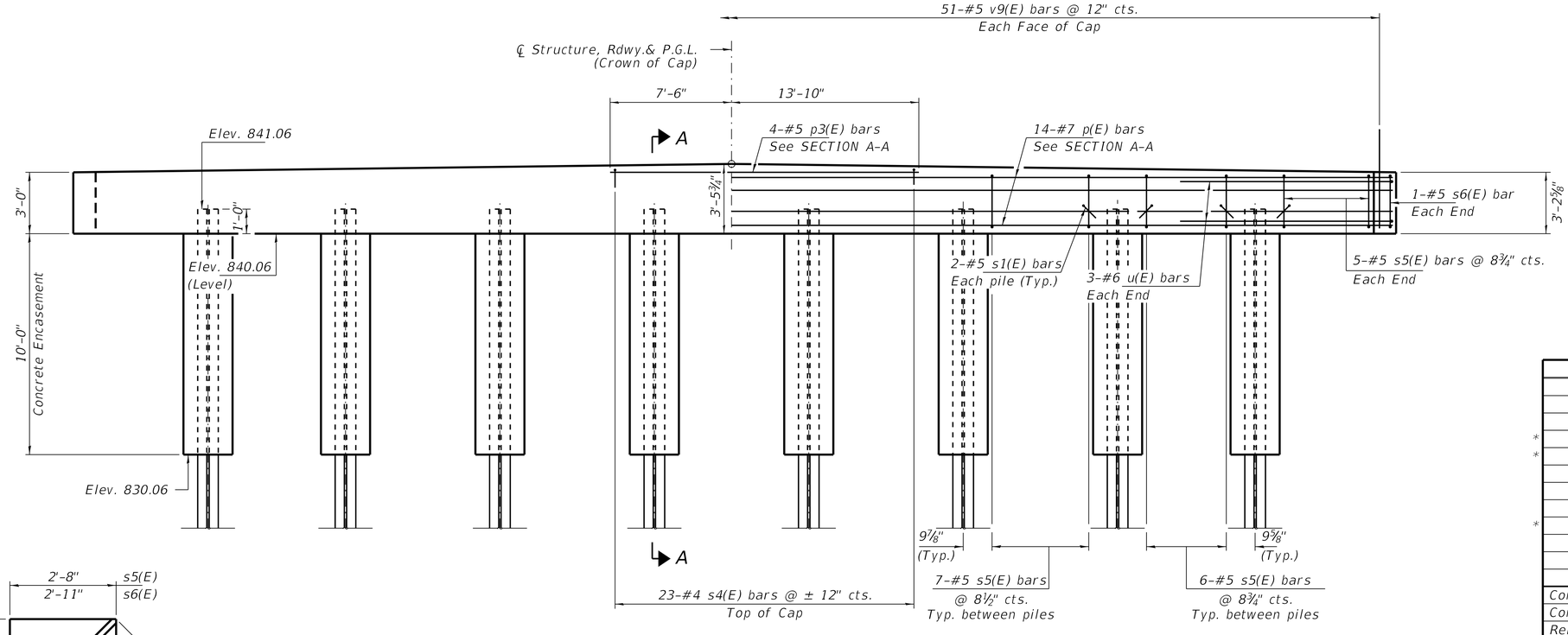
PLAN



Note:
See Structural sheet S23 OF S34 for Concrete Encasement reinforcement.

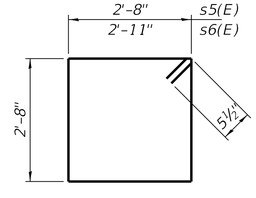
SECTION A-A

Dimensions @ right ∠s to Pier.



ELEVATION

(Looking East)



BARS s5(E) & s6(E)

BILL OF MATERIAL - PIER 1

	BAR	NO.	SIZE	LENGTH	SHAPE
	p(E)	14	#7	49'-3"	
	p3(E)	4	#5	21'-4"	
*	s1(E)	16	#5	3'-8"	
*	s4(E)	23	#4	7'-9"	
	s5(E)	57	#5	11'-7"	
	s6(E)	2	#5	12'-1"	
*	u(E)	6	#6	11'-5"	
	v9(E)	102	#5	3'-10"	
	Concrete Structures			Cu. Yd.	18.2
	Concrete Encasement			Cu. Yd.	14.0
	Reinf. Bars, Epoxy Coated			Pound	2,910
	Furnishing Steel Piles HP14x89			Foot	364
	Driving Piles			Foot	364
	Test Pile Steel HP14x89			Each	1
	Pile Shoes			Each	8

Note:
For details of piles, see Structural sheet S23 of S34.
*See Structural sheet S19 of S34 for bar details.

PILE DATA

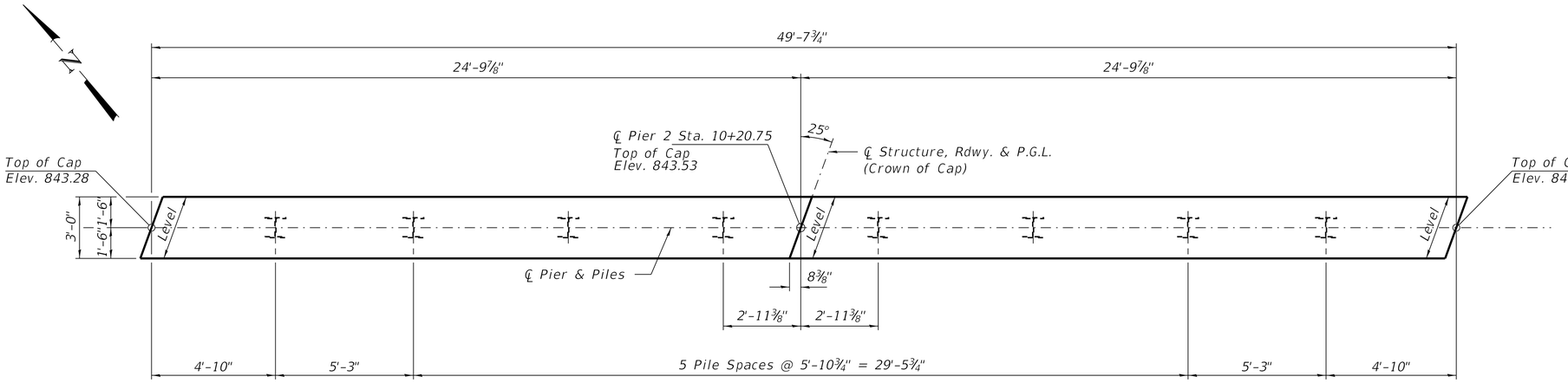
Type: Steel HP 14x89
Nominal Required Bearing: 299^{k}
Factored Resistance Available: 164^{k}
Est. Length: 52 ft.
No. Production Piles: 7
No. Test Piles: 1

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - A.C.	REVISED -
3095 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.M.S.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -

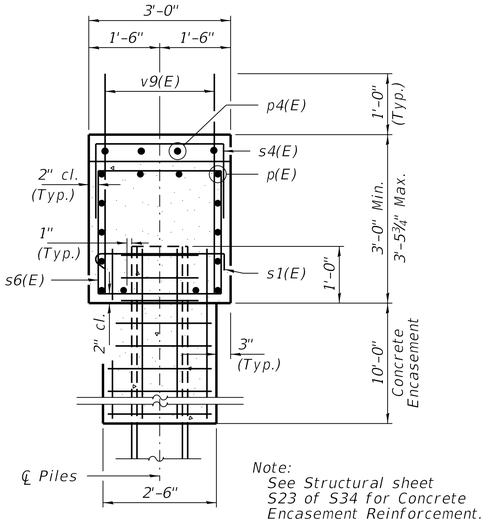
STATE OF ILLINOIS
CITY OF DEKALB

WEST PIER - PIER 1
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S21 OF S34 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	43
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			



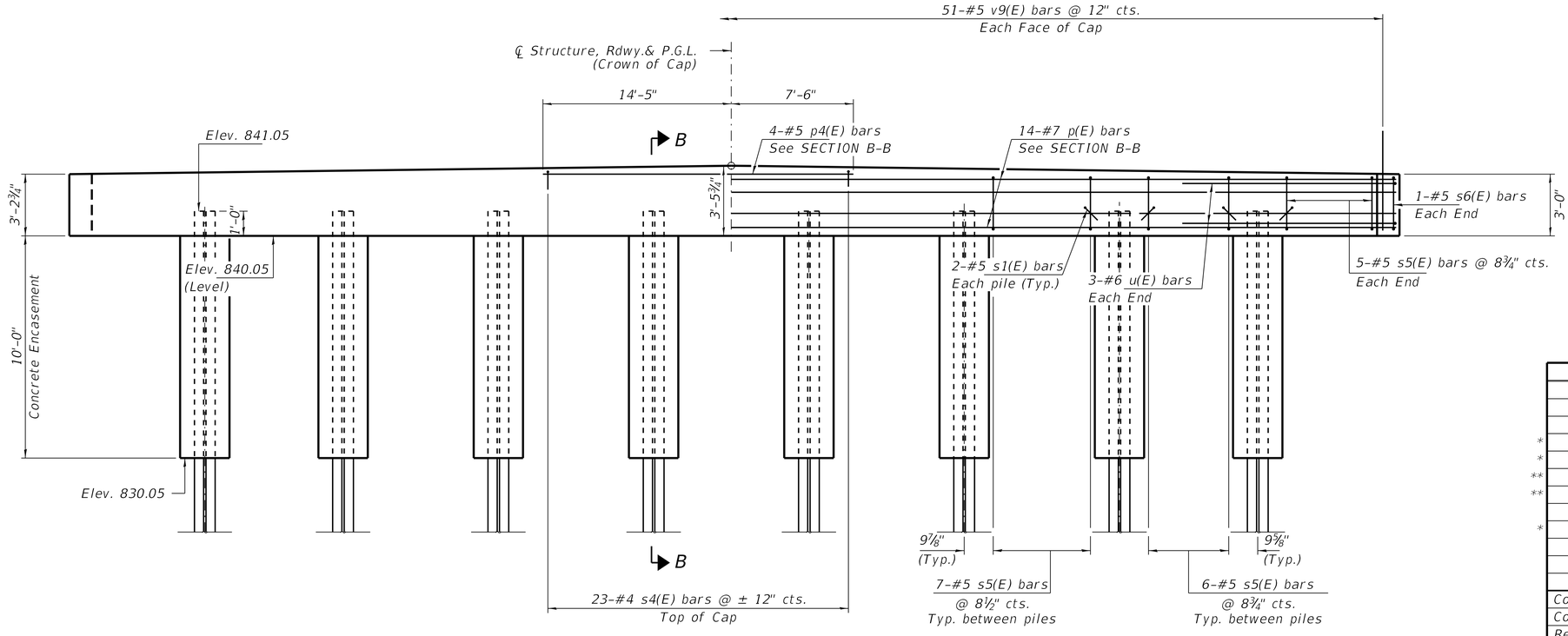
PLAN



Note:
See Structural sheet S23 of S34 for Concrete Encasement Reinforcement.

SECTION B-B

Dimensions @ right ∠s to Pier.



ELEVATION

(Looking East)

PILE DATA

Type: Steel HP 14x89
Nominal Required Bearing: 299^{k}
Factored Resistance Available: 164^{k}
Est. Length: 51 ft.
No. Production Piles: 7
No. Test Piles: 1

BILL OF MATERIAL - PIER 2

	BAR	NO.	SIZE	LENGTH	SHAPE
	p(E)	14	#7	49'-3"	
	p4(E)	4	#5	21'-11"	
*	s1(E)	16	#5	3'-8"	
*	s4(E)	23	#4	7'-9"	
**	s5(E)	57	#5	11'-7"	
**	s6(E)	2	#5	12'-1"	
*	u(E)	6	#6	11'-5"	
	v9(E)	102	#5	3'-10"	
	Concrete Structures			Cu. Yd.	18.2
	Concrete Encasement			Cu. Yd.	14.0
	Reinf. Bars, Epoxy Coated			Pound	2,910
	Furnishing Steel Piles HP14x89			Foot	357
	Driving Piles			Foot	357
	Test Pile Steel HP14x89			Each	1
	Pile Shoes			Each	8

Note:
For details of piles, see Structural sheet S23 of S34.
* See Structural sheet S19 OF S34 for bar details.
** See Structural sheet S21 OF S34 for bar details.

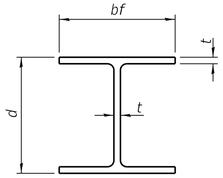
FILE NAME = 200251-sht-bridge Lucinda.dgn
USER NAME = steves
PLOT SCALE =
PLOT DATE = 5/13/2022
DESIGNED - I.P.N.
DRAWN - A.C.
CHECKED - S.M.S.
DATE - 5/13/2022
REVISED -
REVISED -
REVISED -
REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

STATE OF ILLINOIS
CITY OF DEKALB

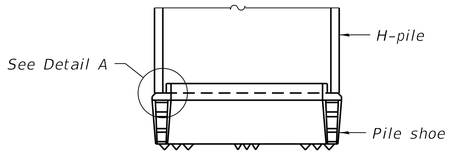
EAST PIER - PIER 2
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S22 OF S34 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	44
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

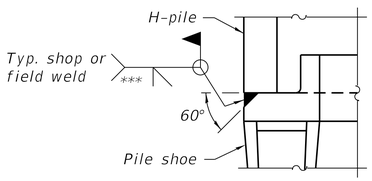


STEEL PILE TABLE

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



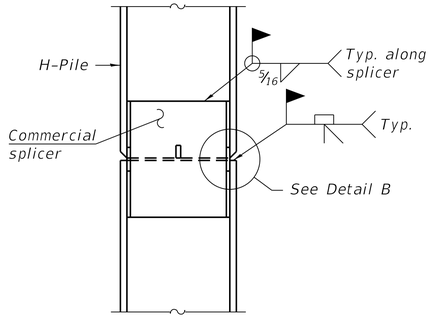
ELEVATION



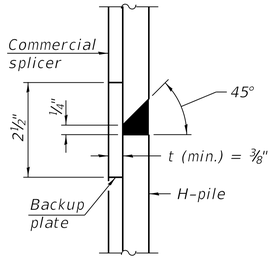
DETAIL A

SHOE ATTACHMENT

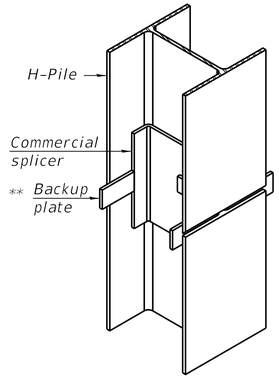
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

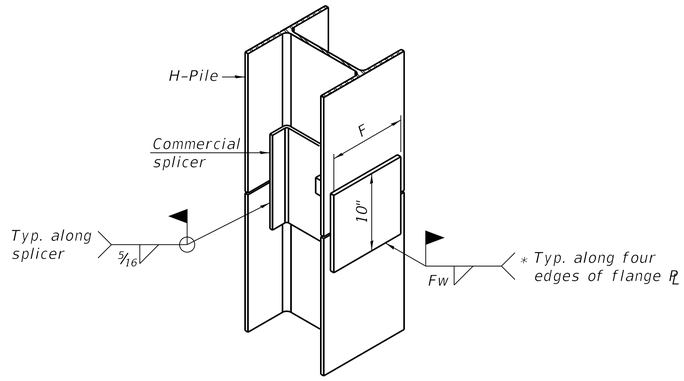


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



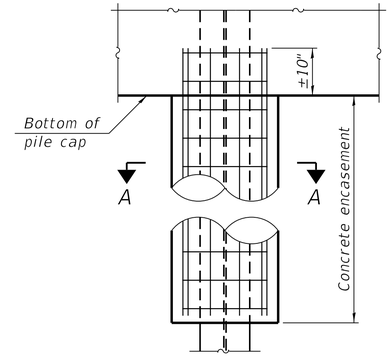
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

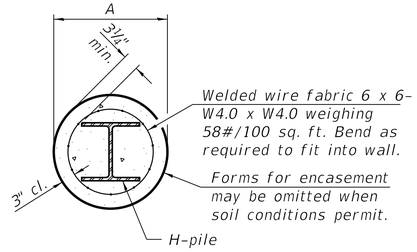
* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).



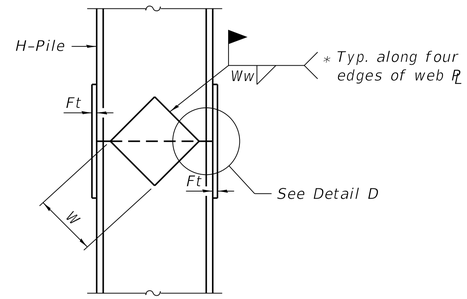
ELEVATION



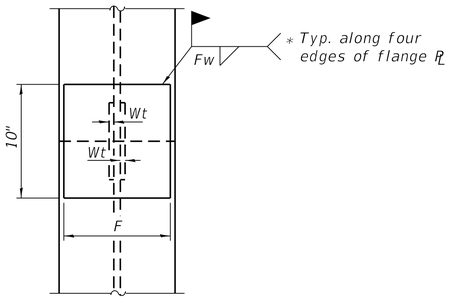
SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASEMENT

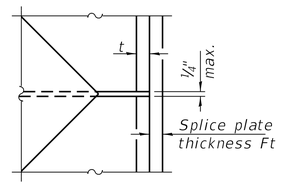
(when specified)



ELEVATION



END VIEW



DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

F-HP 1-1-2020

FILE NAME = 200251-sht-bridge Lucinda.dgn | USER NAME = steves | DESIGNED - I.P.N. | REVISED -
HAMPTON, LENZINI AND RENWICK, INC. | DRAWN - A.C. | REVISED -
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 | PLOT SCALE = | CHECKED - S.M.S. | REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959 | PLOT DATE = 5/13/2022 | DATE - 5/13/2022 | REVISED -

STATE OF ILLINOIS
CITY OF DEKALB

HP PILE DETAILS
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S23 OF S34 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	45
		CONTRACT NO. 87779		
		ILLINOIS FED. AID PROJECT		

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 1 of 3

Client: Hampton Lenzini & Renwick
Project Name: Lucinda Avenue S Branch Kishwaukee River
Project Site: DeKalb, Illinois

Boring No. B-1
Surface Elev. 844.60
Auger Depth 51ft Rotary Depth NA
Start Date 01/09/21 Finish Date

Location: 25' Right Station 9+53

DRILLED BY: Randy Safranski, Diedrich D-120

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
844.60										
843.60	Stiff Black Silty Clay	1								
842.60		2								
841.60		3	1	SS	1.1	9	B	22		
840.60		4								
839.60		5	2	SS	---	14	----	---		
838.60	Medium Brown Gravely Loam	6								
837.60		7								
836.60		8	3	SS	---	16	----	---		
835.60		9								
834.60		10	4	SS	---	5	---	18		
833.60	Loose To Very Loose Brownish Gray Silt To Silty Loam	11								
832.60		12								
831.60		13	5	SS	---	4	--	20		
830.60		14								
829.60		15	6	SS	2.3	4	---	19		
828.60		16								
827.60		17								← Water
826.60	Very Stiff Brownish Gray Clay Till	18	7	SS	2.3	14	B	11		
825.60		19								
824.60		20	8	SS	3.2	18	B	10		

Groundwater Data: Static water table after auger removal - Elevation 822.0
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 2 of 3

Client: Hampton Lenzini & Renwick
Project Name: Lucinda Avenue S Branch Kishwaukee River
Project Site: DeKalb, Illinois

Boring No. B-1
Surface Elev. 844.60
Auger Depth 51ft Rotary Depth NA
Start Date 01/09/21 Finish Date 01/00/00

Location: 25' Right Station 9+53

DRILLED BY: Randy Safranski, Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
823.60										
822.60		22								
821.60		23	9	SS	2.9	16	B	10		
820.60	Very Stiff Brownish Gray Clay Till	24								
819.60		25	10	SS	2.8	15	B	10		
818.60		26								
817.60		27								
816.60		28	11	SS	2.2	13	B	12		
815.60		29								
814.60	Stiff Brownish Gray Clay Till With Silt Seams	30	12	SS	1.9	12	B	16		
813.60		31								
812.60		32								
811.60		33								
810.60		34								
809.60	Very Stiff Brownish Gray Clay Till	35								
808.60		36	13	SS	2.5	14	B	12		
807.60		37								
806.60		38								
805.60		39								
804.60		40								
803.60		41	14	SS	2.8	16	B	11		

Groundwater Data: Static water table after auger removal - Elevation 822.0
Comments:

BORINGS

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	**STATE OF ILLINOIS CITY OF DEKALB**
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - A.C.	REVISED -	
	PLOT SCALE =	CHECKED - S.M.S.	REVISED -	
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -	

BORINGS
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S24 OF S34 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	46
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 3 of 3

Client: Hampton Lenzini & Renwick
Project Name: Lucinda Avenue S Branch Kishwaukee River
Project Site: DeKalb, Illinois

Boring No. B-1
Surface Elev. 844.60
Auger Depth 51ft Rotary Depth NA
Start Date 01/09/21 Finish Date 01/00/00

Location: 25' Right Station 9+53

DRILLED BY: Randy Safranski, Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
802.60											
801.60			43								
800.60			44								
799.60	Very Stiff Brownish Gray Clay Till		45	14	SS	2.3	14	B	12		
798.60			46								
797.60			47								
796.60			48								
795.60			49								
794.60			50	15	SS	2.5	15	B	11		
793.60			51								
792.60	Bottom of Boring		52								
791.60			53								
790.60			54								
789.60			55								
788.60			56								
787.60			57								
786.60			58								
785.60			59								
784.60			60								
783.60			61								
782.60			62								

Groundwater Data: Static water table after auger removal - Elevation 822.0
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 1 of 3

Client: Hampton Lenzini & Renwick
Project Name: 3 South Branch Kishwaukee River
Project Site: Dekalb, Illinois

Boring No. B-2
Surface Elev. 843.20
Auger Depth 51' Rotary Depth NA
Start Date 01/09/21 Finish Date 01/09/21

Location: 35' Left of Station10+65

DRILLED BY: Randy Safranski, Diedrich D-120

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
843.20											
842.20			1								
841.20			2								
840.20	Stiff Black Silty Clay With Root Fragments		3	1	SS	1.4	10	B	21		
839.20			4								
838.20			5	2	SS	1.2	9	B	20		
837.20			6								
836.20			7								
835.20			8	3	SS	1.3	12	B	16		
834.20	Stiff Brownish Gray Clay		9								
833.20			10	4	SS	1.7	10	B	18		
832.20			11								
831.20			12								
830.20			13	5	SS	3.2	16	B	10		
829.20			14								
828.20	Very Stiff Brownish Gray Clay till		15	6	SS	3.0	17	B	10		
827.20			16								
826.20			17								
825.20			18	7	SS	2.2	14	B	11		
824.20			19								
823.20			20	8	SS	2.7	14	B	11		

Groundwater Data: No groundwater encountered at time of subsurface investigation
Comments:

BORINGS

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 2 of 3

Client: Hampton Lenzini & Renwick
Project Name: 3 South Branch Kishwaukee River
Project Site: Dekalb, Illinois

Boring No. B-2
Surface Elev. 843.20
Auger Depth 51' Rotary Depth NA
Start Date 01/09/21 Finish Date 01/09/21

Location: 35' Left of Station10+65

DRILLED BY: Randy Safranski, Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
822.20											
821.20			22								
820.20			23	9	SS	3.0	15	B	11		
819.20			24								
818.20			25								
817.20			26	10	SS	2.9	18	B	10		
816.20			27								
815.20			28	11	SS	2.7	15	B	11		
814.20	Very Stiff Brownish Gray Clay Till		29								
813.20			30	12	SS	2.4	13	B	12		
812.20			31								
811.20			32								
810.20			33								
809.20			34								
808.20			35	13	SS	2.6	15	B	11		
807.20			36								
806.20			37								
805.20			38								
804.20			39								
803.20			40								
802.20			41	14	SS	3.2	18	B	10		

Groundwater Data: No groundwater encountered at time of subsurface investigation
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 3 of 3

Client: Hampton Lenzini & Renwick
Project Name: 3 South Branch Kishwaukee River
Project Site: Dekalb, Illinois

Boring No. B-2
Surface Elev. 843.20
Auger Depth 51' Rotary Depth NA
Start Date 01/09/21 Finish Date 01/09/21

Location: 35' Left of Station10+65

DRILLED BY: Randy Safranski, Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
801.20											
800.20			43								
799.20			44								
798.20			45								
797.20	Very Stiff Brownish Gray Clay Till		46	14	SS	2.3	13	B	12		
796.20			47								
795.20			48								
794.20			49								
793.20			50								
792.20			51	15	SS	2.5	14	B	11		
791.20	Bottom Of Boring		52								
790.20			53								
789.20			54								
788.20			55								
787.20			56								
786.20			57								
785.20			58								
784.20			59								
783.20			60								
782.20			61								
781.20			62								

Groundwater Data: No groundwater encountered at time of subsurface investigation
Comments:

BORINGS

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
		DRAWN - A.C.	REVISED -
	PLOT SCALE =	CHECKED - S.M.S.	REVISED -
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

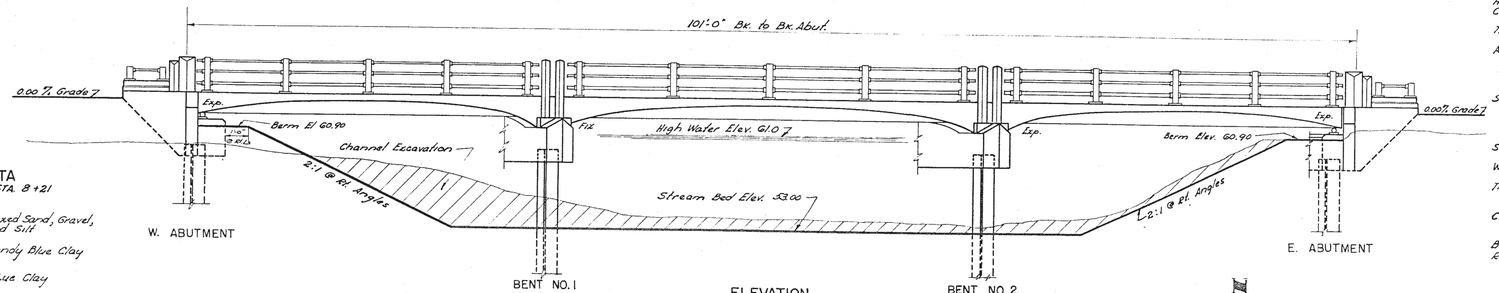
STATE OF ILLINOIS
CITY OF DEKALB

BORINGS
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S26 OF S34 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	48
		CONTRACT NO. 87779		
		ILLINOIS	FED. AID PROJECT	

B.M. #2 – N.W. Bolt on F.H. 26' Rt. STA. 7+27 Assumed Datum 65.25

Existing Structure: Steel Pony Truss Span 1 @ 80', Rdwy. 16' Sub. Concrete Abuts.



ELEVATION
Scale 3/16" = 1'-0"

BORING DATA
Located 21' Rt. STA. 8+21

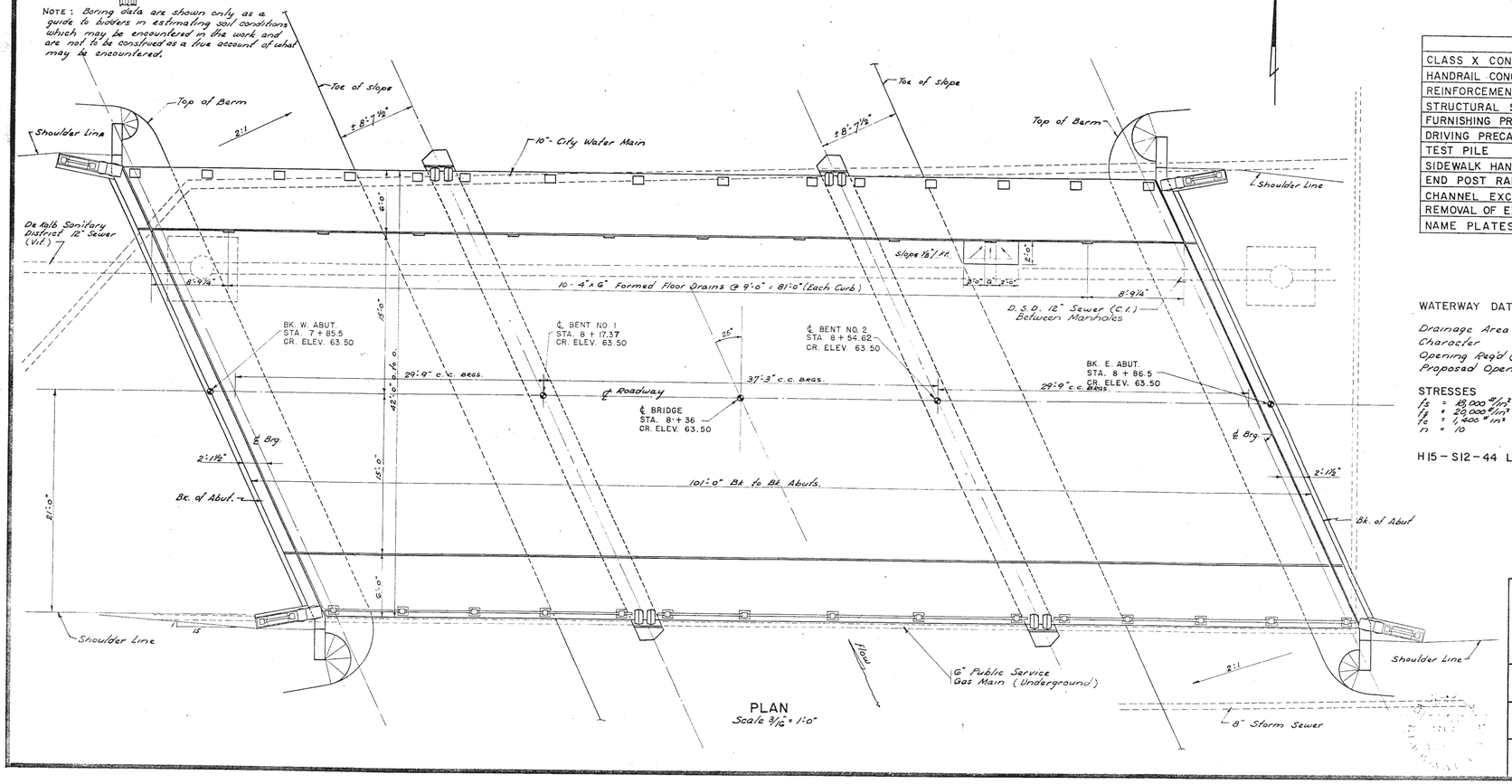
55.1	Mixed Sand, Gravel, and Silt
51.0	
50.0	Sandy Blue Clay
47.0	Blue Clay
	Gravelly Blue Clay

NOTE: Boring data are shown only as a guide to bidders in estimating soil conditions which may be encountered in the work and are not to be construed as a true account of what may be encountered.

NOTE: Refer to Sheet No. 2 for general note relative to Channel Excavation

GENERAL NOTES

Class X Concrete shall be used throughout except as noted.
Handrail Concrete shall be used in End Posts and Intermediate Posts.
Concrete floor slab shall be finished in accordance with Art. 51.18 (a) and Art. 48.23 of the Standard Specifications.
The Concrete Superstructure shall be poured in one continuous operation between construction joints shown on plans.
All rollers, rockers, bearing plates, lead plates, and anchor bolts shall be fabricated and set in accordance with Article 51.14 of the Standard Specifications and are included for payment as Structural Steel.
Estimated Weight 5600 lbs.
Sidewalk Handrail (Special), End Post Rail (Special), and Structural Steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. All paint shall be furnished and applied by the bridge contractor.
Shop inspection will be made by the State of Illinois of all steel fabrication before shop painting.
Welding shall comply with Art. 55.4 of the Standard Specifications.
The Contractor shall drive 2 test piles in permanent locations as directed by the Engineer before ordering the remainder of piles.
Class A Excavation for structures will not be allowed but shall be included in the contract unit price per cubic yard for Class X Concrete.
Both Test Piles shall be cast 42' long.
Refer to Special Provisions for "Removal of Existing Structures."



PLAN
Scale 3/16" = 1'-0"

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER.	SUB.	TOTAL
CLASS X CONCRETE	CU. YDS.	194.6	75.4	270
HANDRAIL CONCRETE	CU. YDS.	2.6		2.6
REINFORCEMENT BARS	LBS.	50330	6860	57190
STRUCTURAL STEEL	LBS.	7400		7400
FURNISHING PRECAST CONC. PILES 16"	LIN. FT.		908	908
DRIVING PRECAST CONC. PILES	LIN. FT.		908	908
TEST PILE	EA.		2	2
SIDEWALK HANDRAIL (SPECIAL)	LIN. FT.	175.6		175.6
END POST RAIL (SPECIAL)	EA.	4		4
CHANNEL EXCAVATION	CU. YDS.			3522
REMOVAL OF EXISTING STRUCTURES	EA.			1
NAME PLATES	EA.	1		1

WATERWAY DATA

Drainage Area	51,000 Acres
Character	level
Opening Req'd (15 yr. Flood)	300 Sq. Ft.
Proposed Opening	317 Sq. Ft.

STRESSES
f_s = 18,000 #/in² (Structural)
f_s = 20,000 #/in² (Reinf.)
f_c = 1,400 in² (Super)
n = 10

H15 – S12 – 44 LOADING

LUCINDA AVE. BRIDGE
BUILT 1954 BY
DE KALB COUNTY
CITY OF DE KALB
LOADING H15 – S12

LETTERING FOR NAME PLATE
STANDARD 2113

LUCINDA AVENUE BRIDGE
SEC. 19B-CS
STA. 8+36
CITY OF DE KALB
DE KALB COUNTY

Designed by: T.D. Gazda, E.I. Callahan	PLANS PREPARED BY S.W. KNETCH AND ASSOCIATES DE KALB, ILLINOIS	Approved by: 5/17/22
Drawn By: T.D.G., E.I.C., D.J.M.		
Checked by: H.H. Cordes, H.W. Byers		

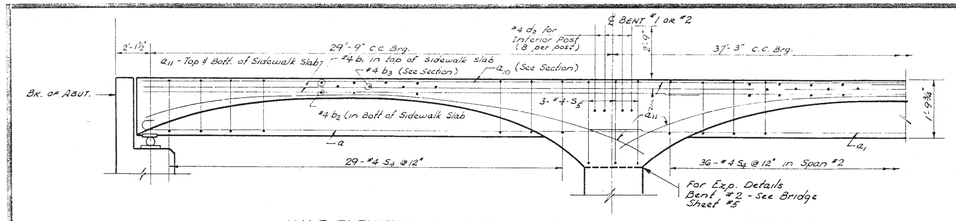
1586

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - A.C.	REVISED -	
	PLOT SCALE =	CHECKED - S.M.S.	REVISED -	
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -	

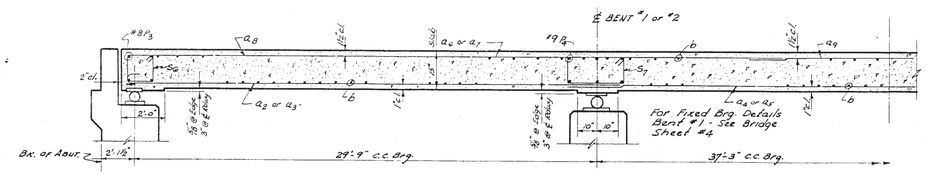
STATE OF ILLINOIS
CITY OF DEKALB

EXISTING PLANS - 1954
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S27 OF S34 SHEETS

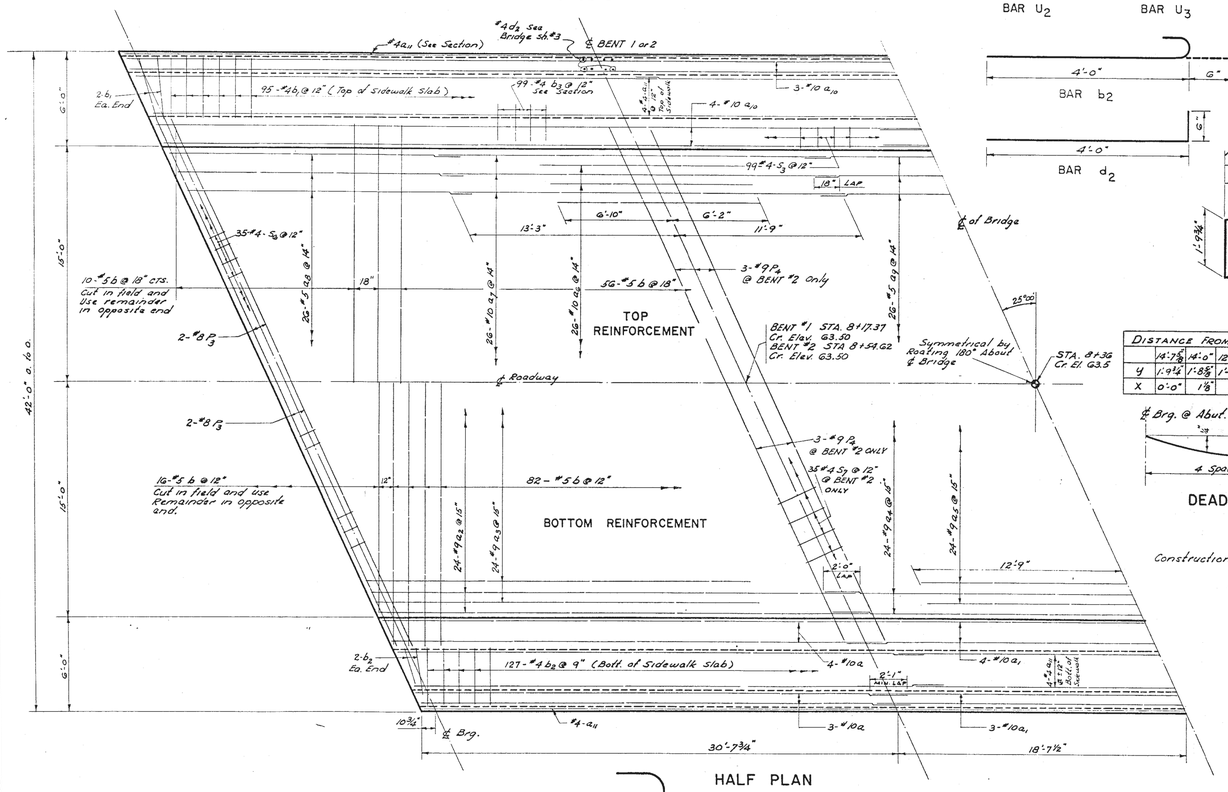
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	49
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		



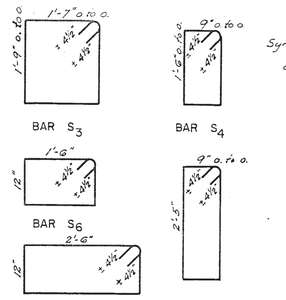
HALF ELEVATION OF SIDEWALK BEAM SHOWING REINFORCEMENT

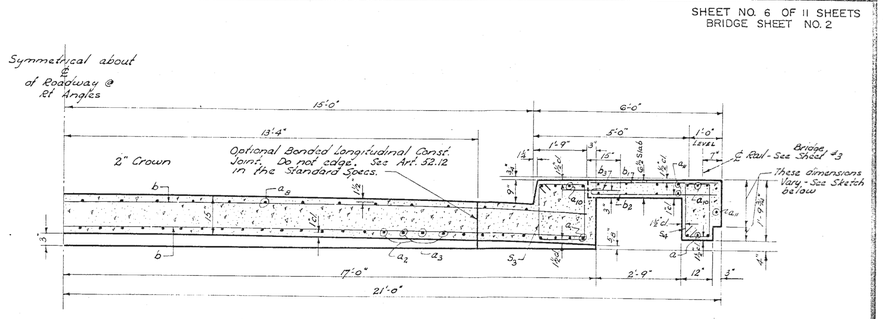


HALF LONGITUDINAL SECTION THRU SLAB

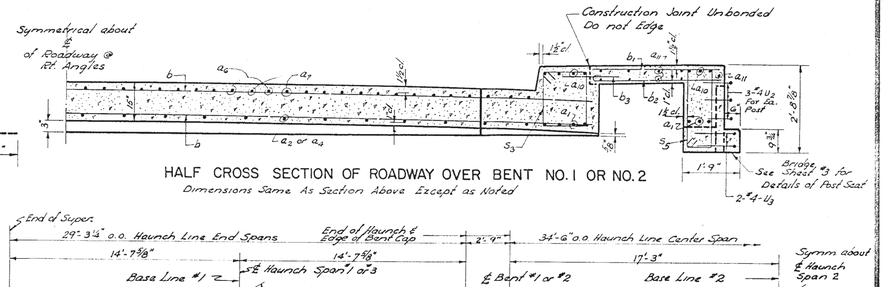


HALF PLAN



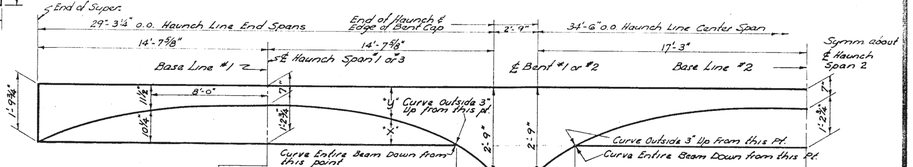


HALF CROSS SECTION OF ROADWAY NEAR ABUTMENT



HALF CROSS SECTION OF ROADWAY OVER BENT NO. 1 OR NO. 2

Dimensions Same As Section Above Except as Noted

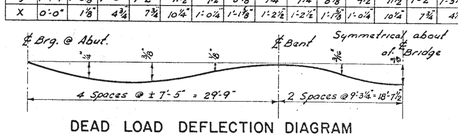


Distance from Base Line #1 (Left)													
	14'-7⅝"	14'-0"	12'-0"	10'-0"	8'-0"	6'-0"	4'-0"	2'-0"	2'-0"	4'-0"	6'-0"	8'-0"	10'-0"
y	1'-9¾"	1'-8⅝"	1'-5"	1'-2"	11½"	9⅞"	8⅛"	7⅛"	7¼"	8⅛"	9⅞"	11½"	1'-2"
x	0'-0"	1/8"	4¾"	7⅞"	10¼"	1'-0¼"	1'-1⅜"	1'-2½"	1'-2½"	1'-1⅜"	1'-0¼"	10¼"	7⅞"

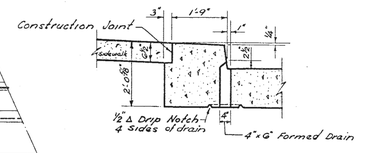
Distance from Base Line #1 (Right)													
	12'-0"	10'-0"	8'-0"	6'-0"	4'-0"	2'-0"	2'-0"	4'-0"	6'-0"	8'-0"	10'-0"	12'-0"	13'-2⅝"
y	1'-5"	1'-2"	11½"	9⅞"	8⅛"	7¼"	7¼"	8⅛"	9⅞"	11½"	1'-2"	1'-5⅛"	1'-9¾"
x	1/8"	4¾"	7⅞"	10¼"	1'-0¼"	1'-1⅜"	1'-2½"	1'-1⅜"	1'-0¼"	10¼"	7⅞"	4¼"	0'-0"

Distance from Base Line #2 (Left or Right)									
17'-3"	16'-0"	14'-7⅝"	13'-0"	14'-0"	12'-0"	10'-0"	8'-0"	6'-0"	4'-0"	2'-0"
2'-9"	2'-2"	1'-7⅝"	1'-1"	1'-4¾"	1'-2¼"	12"	10⅜"	8⅝"	7⅛"	7⅛"
		0'-0"	2⅝"	5"	7⅛"	9⅜"	11⅜"	1'-0⅞"	1'-2⅜"	

ORDINATES FOR HAUNCH LINE OUTSIDE BEAM



DEAD LOAD DEFLECTION DIAGRAM



FLOOR DRAIN DETAIL

For Spacing See Bridge Sh. #1

BILL OF MATERIAL — SUPERSTRUCTURE

BAR	NO.	SIZE	LENGTH	SHAPE	BAR	NO.	SIZE	LENGTH	SHAPE
a	28	#10	33'-2"		b	164	#5	33'-0"	
a_1	14	#10	39'-3"		b_1	198	#4	4'-0"	
a_2	48	#9	31'-9"		b_2	262	#4	4'-6"	
a_3	48	#9	26'-0"		b_3	198	#4	2'-6"	
a_4	24	#9	39'-3"						
a_5	24	#9	25'-6"		S_3	198	#4	7'-5"	
a_6	52	#10	13'-0"		S_4	188	#4	5'-3"	
a_7	52	#10	25'-0"		S_5	12	#4	7'-1"	
a_8	52	#5	19'-0"		S_6	70	#4	5'-9"	
a_9	26	#5	10'-9"		S_7	35	#4	7'-9"	
a_{10}	28	#10	51'-3"						
a_{11}	60	#4	34'-9"		P_3	8	#8	37'-0"	
U_2	24	#4	2'-5"		P_4	6	#9	37'-0"	
U_3	8	#4	4'-8"		d_2	32	#5	4'-6"	

Class X Concrete	Cu. Yds.	194.6
Reinforcement Bars	Lbs.	49,960

Approved: 5/13/22
Henry Bird

LUCINDA AVENUE BRIDGE
SEC. 19B-CS
STA. 8 + 36
CITY OF DE KALB
DE KALB COUNTY

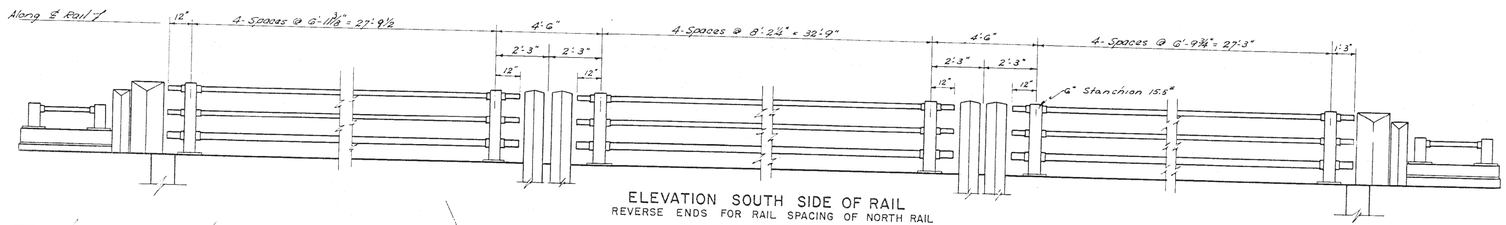
1586

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - A.C.	REVISED -	
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.M.S.	REVISED -	
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -	

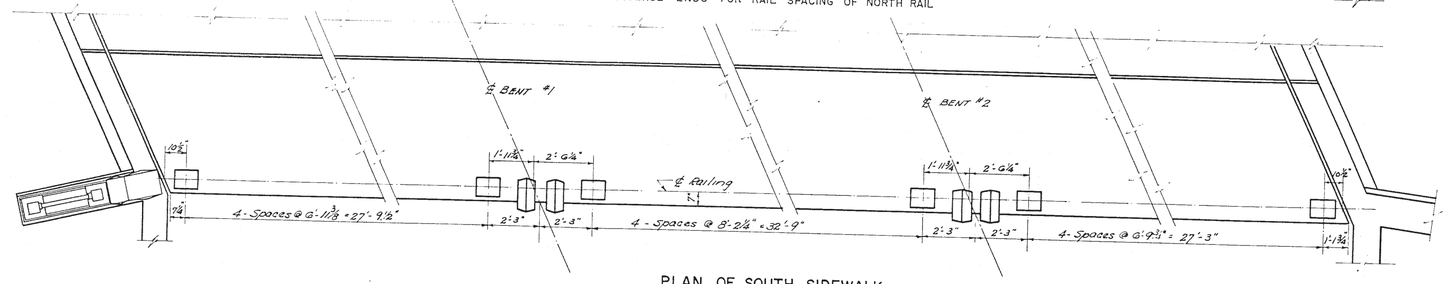
STATE OF ILLINOIS
CITY OF DEKALB

EXISTING PLANS - 1954
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S28 OF S34 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	50
		CONTRACT NO. 87779		
		ILLINOIS	FED. AID PROJECT	



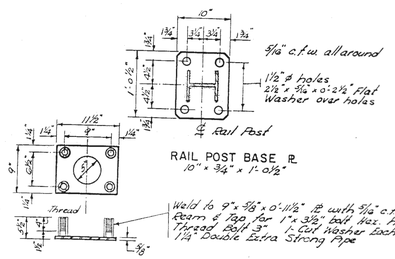
ELEVATION SOUTH SIDE OF RAIL
REVERSE ENDS FOR RAIL SPACING OF NORTH RAIL



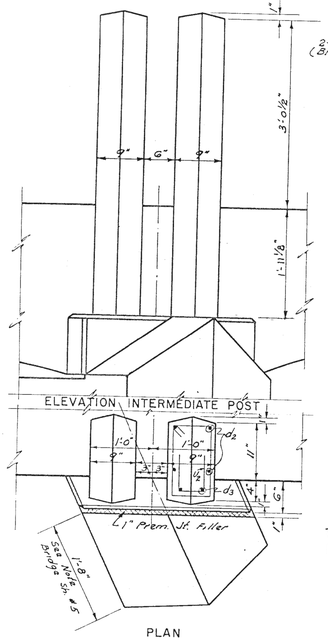
PLAN OF SOUTH SIDEWALK
ROTATE 180° FOR PLAN OF NORTH SIDEWALK

BILL OF MATERIAL

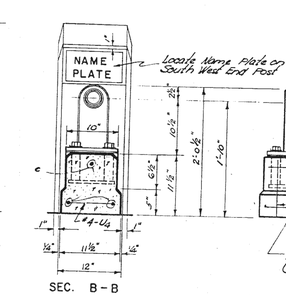
BAR	NO	SIZE	LENGTH	SHAPE
d_3	16	#5	4'-9"	——
d_4	16	#5	2'-9"	——
d_5	8	#5	2'-6"	——
c	12	#5	6'-0"	——
U_4	28	#4	3'-8"	⊐
S	32	#4	3'-9"	⊐S
Handrail Concrete			Cu Yds	2.6
Reinforcement Bars			Lbs.	370
Sidewalk Handrail (Spec.)			Lin ft.	175.6
End Post Rail (Special)			Ea.	4

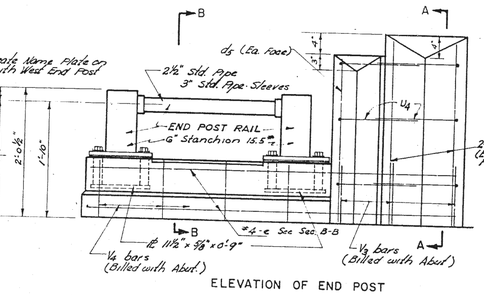


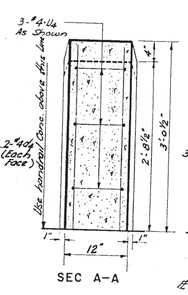
ANCHOR DETAILS - ALL STANCHIONS

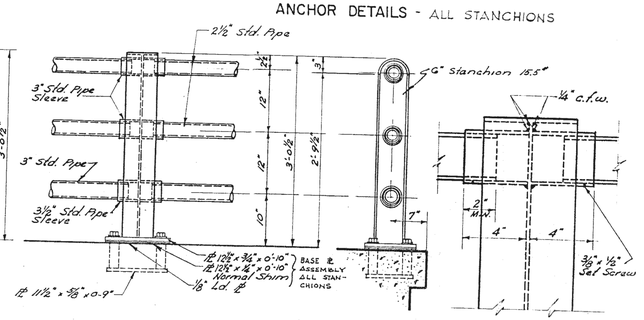


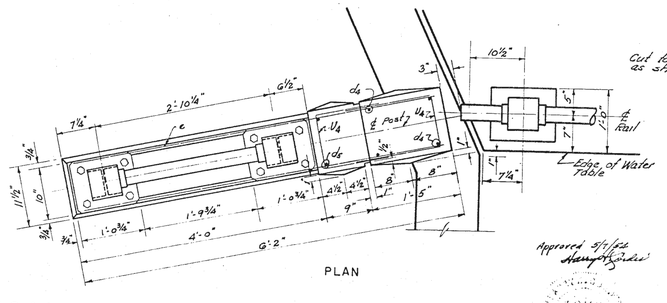
TYPICAL INTERMEDIATE POST DETAILS
Scale 1" = 1'-0"





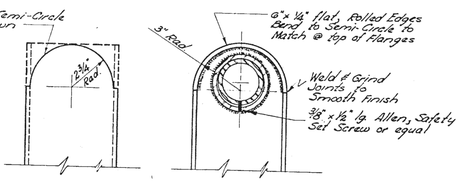






TYPICAL END POST DETAILS
Scale 1" = 1'-0"

Approved 5/13/22

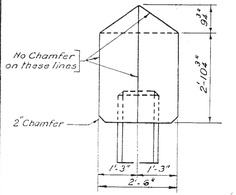


TYPICAL RAIL POST DETAILS

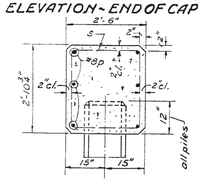
LUCINDA AVENUE BRIDGE
SEC. 19B-CS
STA. 8+36
CITY OF DE KALB
DE KALB COUNTY

1586

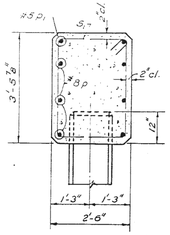
FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS CITY OF DEKALB	EXISTING PLANS - 1954 LUCINDA AVENUE - STRUCTURE NO. 019-6109	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - A.C.	REVISED -		SHEET NO. S29 OF S34 SHEETS	5336	18-00193-00-BR	DEKALB	133	51
	PLOT SCALE =	CHECKED - S.M.S.	REVISED -						CONTRACT NO. 87779	
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -					ILLINOIS	FED. AID PROJECT	



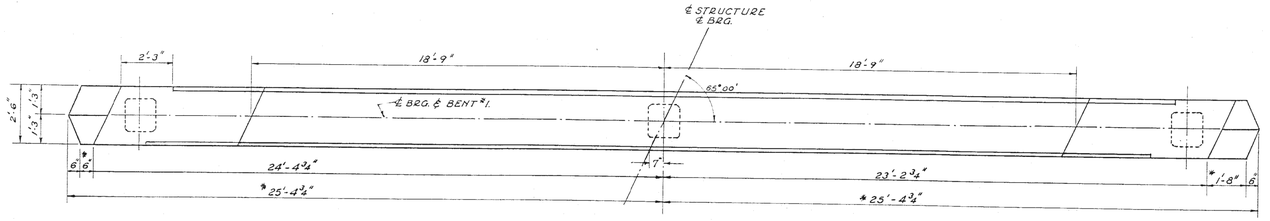
ELEVATION - END OF CAP



SECTION A-A

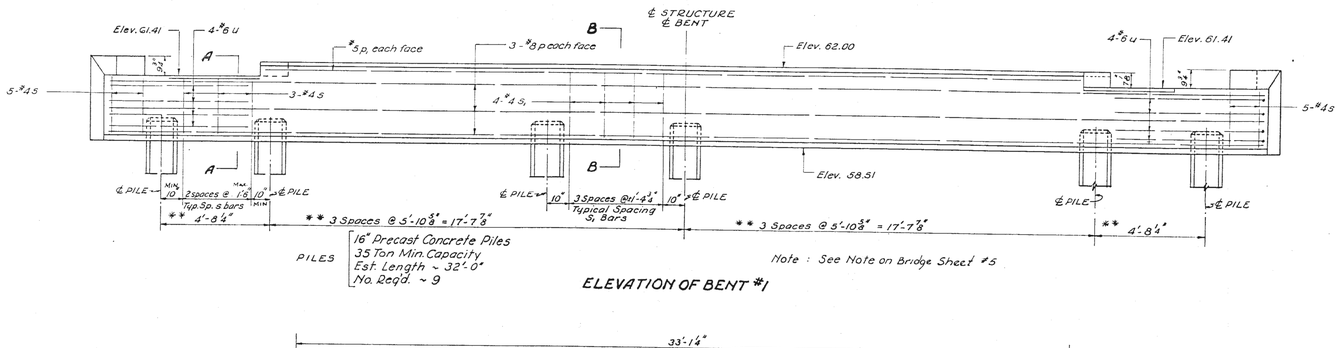


SECTION B-B



PLAN OF BENT #1

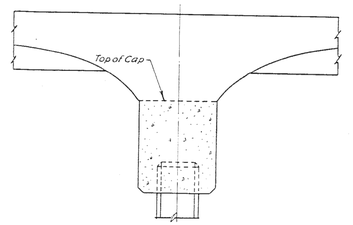
* Note : See Note on Bridge Sheet #5



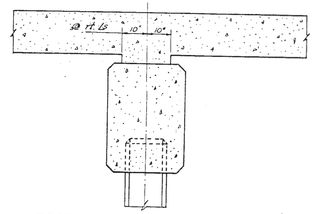
PILES
16" Precast Concrete Piles
35 Ton Min. Capacity
Est. Length ~ 32'-0"
No. Req'd. ~ 9

ELEVATION OF BENT #1

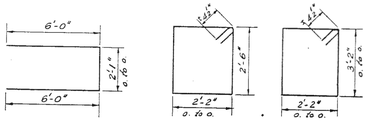
Note : See Note on Bridge Sheet #5



SIDE ELEVATION OF SIDEWALK GIRDER - BENT #1



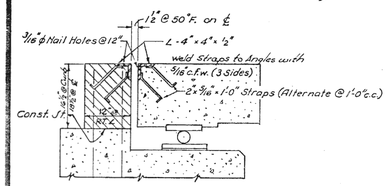
SECTION THRU SLAB @ BENT #1.



BAR U BAR S BAR S,

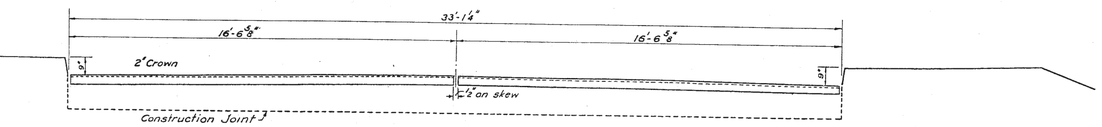
BILL OF MATERIALS - BENT #1.

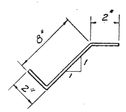
BAR	NO.	SIZE	LENGTH	SHAPE
P	6	#8	19'-8"	—
P,	4	#5	19'-3"	—
S	16	#4	10'-1"	□
S,	24	#4	11'-5"	□
U	8	#6	14'-1"	⊐
CLASS X CONCRETE CU. YDS.				15.0
REINFORCEMENT BARS LBS.				1340
DRIVING PREC. CONCR. PILES LIN. FT.				288
FURN. PREC. CONCR. PILES 16" LIN. FT.				288



SECTION THRU EXPANSION DEVICE

Note : Hatched area not to be poured until superstructure falsework has been removed.

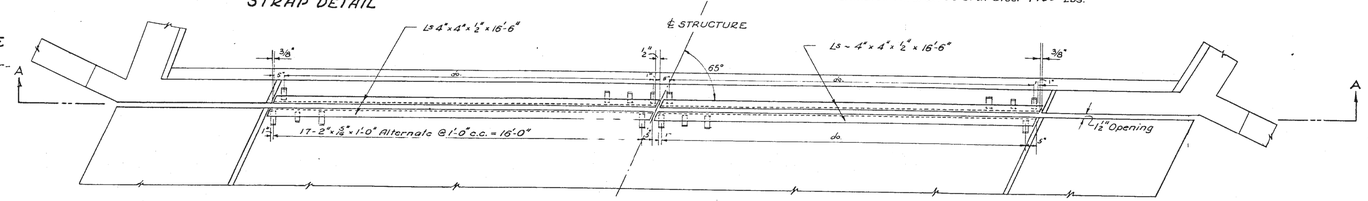




STRAP DETAIL

SECTION A-A

NOTE : Roadway Expansion Device shall be fabricated to fit roadway and shall be assembled in proper position in shop. All surfaces inaccessible after erection shall receive two shop coats of red lead paint except straps.
Estimated Wt. of Structural Steel 1780 Lbs.



PLAN OF EXPANSION DEVICE

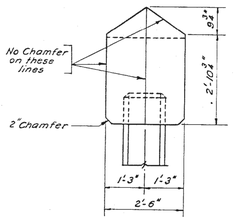
LUCINDA AVENUE BRIDGE
SEC. 19B-CS
STA. 8 + 36
CITY OF DE KALB
DE KALB COUNTY

Approved 6/7/54 Thomas P. Rice

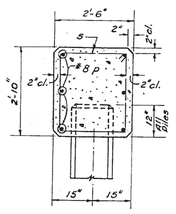
1586

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS CITY OF DEKALB	EXISTING PLANS - 1954 LUCINDA AVENUE - STRUCTURE NO. 019-6109
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - A.C.	REVISED -		SHEET NO. S30 OF S34 SHEETS
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.M.S.	REVISED -		
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -		

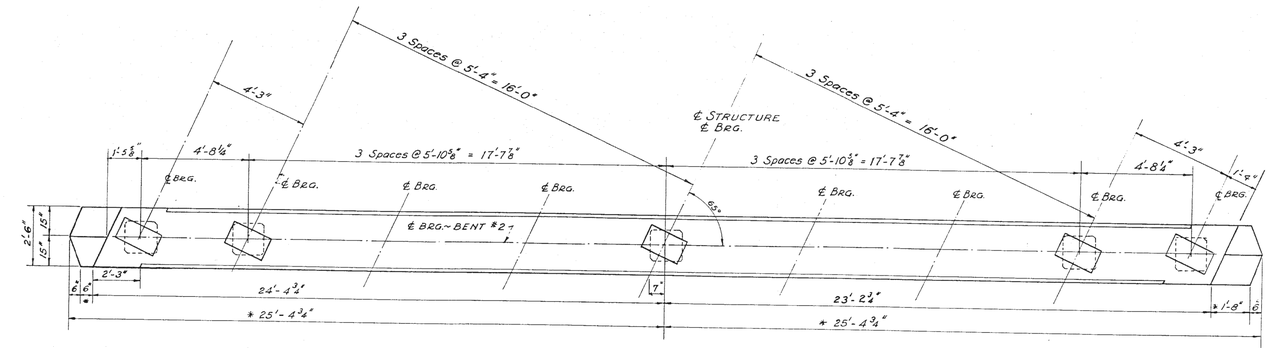
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	52
		CONTRACT NO. 87779		
		ILLINOIS	FED. AID PROJECT	



ELEVATION - END OF CAP

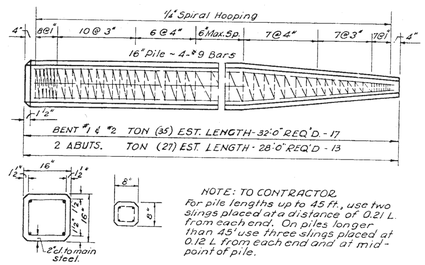


SECTION A-A



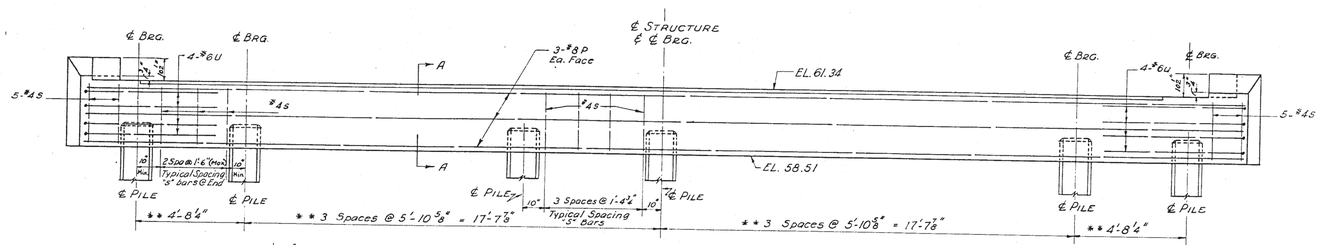
PLAN OF BENT #2

* NOTE: This dimension may be increased 6" if spacing of end pile must be changed to miss underground conduit. Minimum distance between end of cap and ℄ of end pile is 1'-0". If one bent is changed, the other shall also be changed to produce symmetry. All changes shall be directed by the Engineer. See also note below.



NOTE: TO CONTRACTOR.
For pile lengths up to 45 ft., use two slings placed at a distance of 0.21 L. from each end. On piles longer than 45' use three slings placed at 0.12 L. from each end and at mid-point of pile.

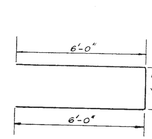
DETAIL OF PRECAST CONCRETE PILES



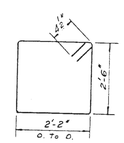
ELEVATION OF BENT #2

PILES: 16" PRECAST CONCRETE PILES
35 TON MAXIMUM CAPACITY
EST. LENGTH - 32'-0"
NO. REQ'D. - 8 + 1 TEST PILE = 9

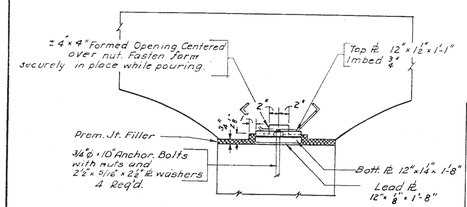
** NOTE: BRIDGE CONTRACTOR shall locate all buried conduit and shall vary pile spacing to miss conduit as directed by the engineer. Minimum pile spacing is 4'-0". Adjusted pile spacing shall be determined and approved by the Engineer for all bents before any test piles are driven. Cost of excavation for conduit shall be incidental to contract.



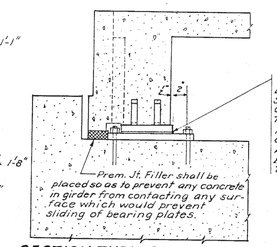
BAR U



BAR S

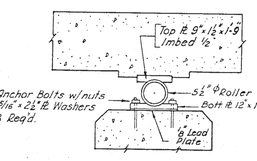


SIDE ELEVATION SIDEWALK GIRDER BENT 2
SHOWING SLIDING PLATE DETAILS

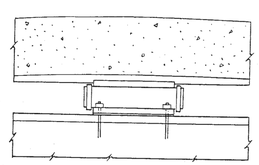


SECTION THRU SIDEWALK GIRDER

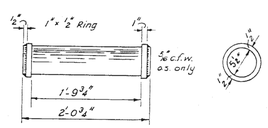
SEPARATE TOP AND BOTTOM BEARING PLATES WITH A 1/16" SHEET OF ASBESTOS FIBERS CEMENTED TOGETHER. COVER THE UNDERSIDE OF THE TOP PLATE WITH A THICK COAT OF GRAPHITE. COST OF FURNISHING AND PLACING THESE ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.



SECTION THRU SLAB
SHOWING INTERIOR BRG. DETAILS

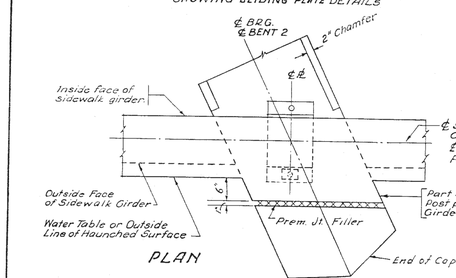


FRONT ELEVATION

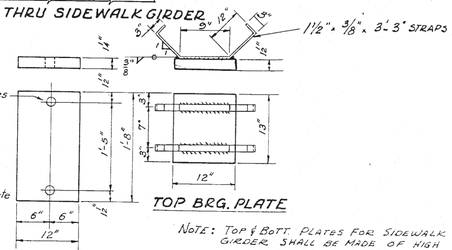


ROLLER
Roller may be turned from solid.

BILL OF MATERIALS - BENT #2				
BAR	NO.	SIZE	LENGTH	SHAPE
P	6	#8	19'-8"	
S	40	#4	10'-1"	
U	8	#6	14'-1"	
CLASS X CONCRETE CU. YDS				12.7
REINFORCEMENT BARS LBS.				1240.0
DRIVING PRECAST CONC. PILES (16") LIN. FT.				256
FURN. PRECAST CONC. PILES (16") LIN. FT.				256
TEST PILE			EACH	1
STRUCTURAL STEEL			LBS.	2850



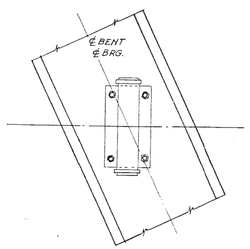
PLAN



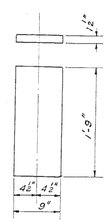
TOP BRG. PLATE

BOTT. BRG. PLATE

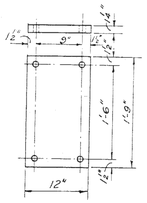
NOTE: TOP & BOTT. PLATES FOR SIDEWALK GIRDER SHALL BE MADE OF HIGH CORROSIVE-RESISTING STEEL.



PLAN



TOP PLATE



BOTTOM PLATE

Approved 5/13/22 Henry A. Zander

LUCINDA AVENUE BRIDGE
SEC. 19B-CS
STA. 8 + 36
CITY OF DE KALB
DE KALB COUNTY

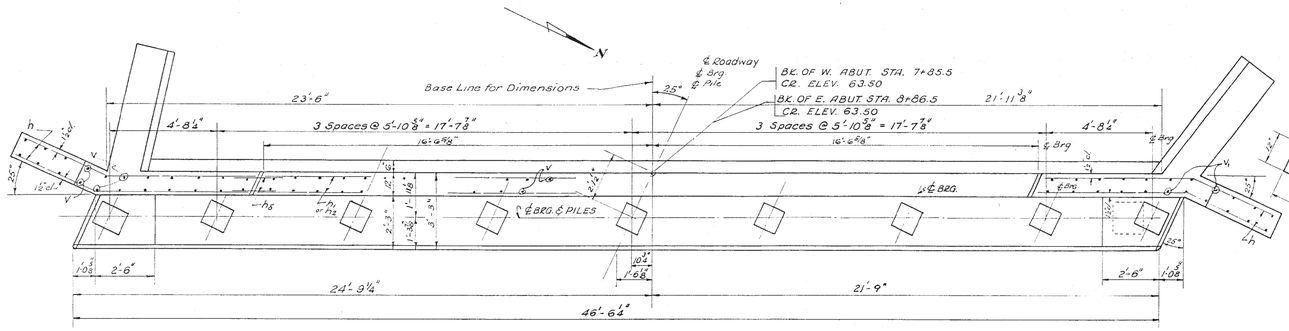
1586

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - A.C.	REVISED -	
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.M.S.	REVISED -	
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -	

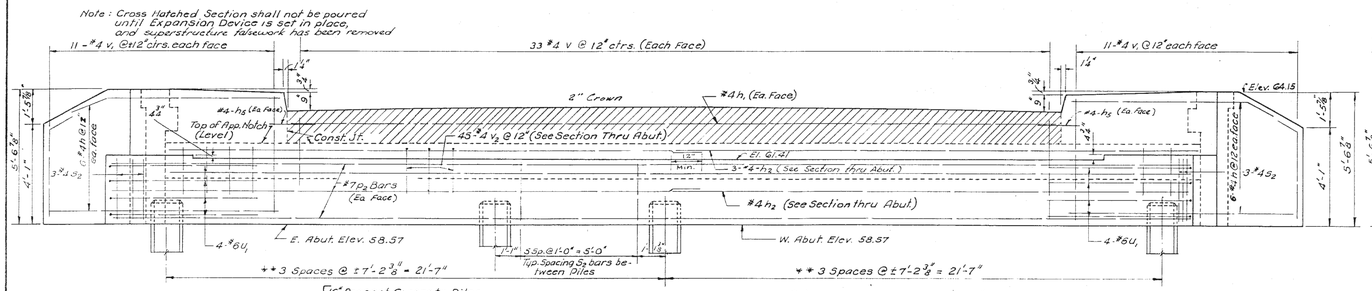
STATE OF ILLINOIS
CITY OF DEKALB

EXISTING PLANS - 1954
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S31 OF S34 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	53
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			



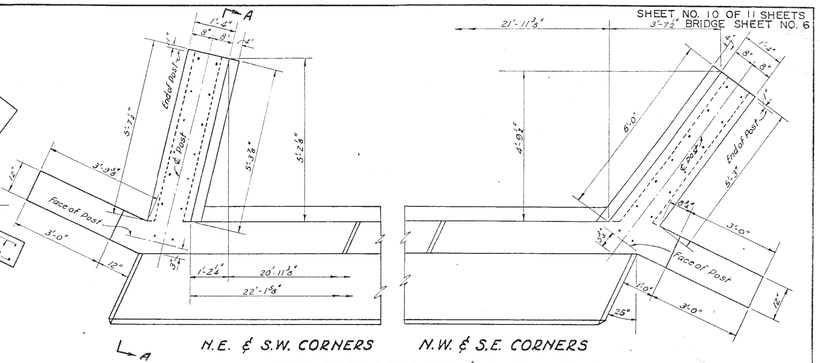
PLAN OF WEST ABUTMENT
East Abutment Similar



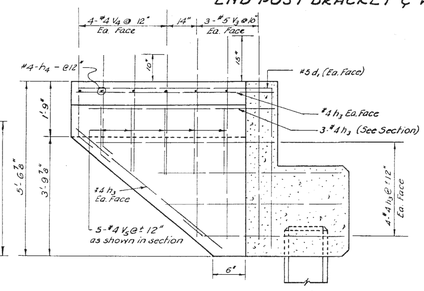
** SEE NOTE BRIDGE SHEET #5

PILES
- 16" Precast Concrete Piles
- 27 Ton Min. Capacity
- Est. Length = 28'-0"
- No. Req'd ~ 7 ~ East Abut.
- 6 ~ 1 Test Pile (West Abut.)

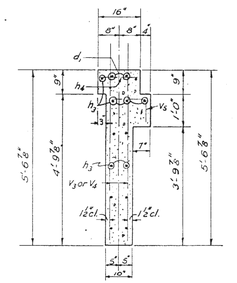
ELEVATION WEST ABUTMENT
East Abutment Similar



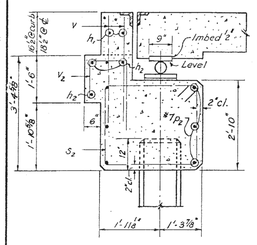
END POST BRACKET & WING DETAILS



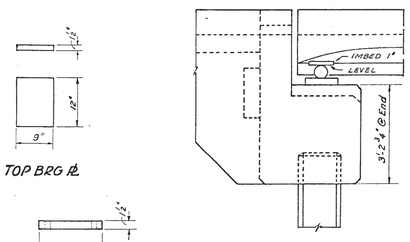
SECTION A - A
Bracket Similar for All Corners



SECTION THRU BRACKET



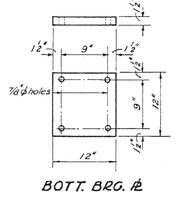
SECTION THRU ABUTMENT
SHOWING INTERIOR BRGS.



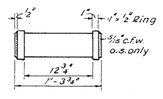
SECTION THRU ABUT. @ ENDS
SHOWING END BRGS.

BEARING INFORMATION

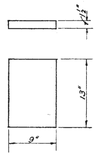
Top 12 ~ 9"x1½"x1'-0" ~ 14 Req'd. ~ 2 Abuts.
Roller ~ 4½"ø x 1'-3⅜" ~ 14 Req'd ~ 2 Abuts.
Bott. Brg. 12 ~ 12"x1½"x1'-0" ~ 14 Req'd ~ 2 Abuts.
Lead 12 12"x⅜"x1'-0" ~ 14 Req'd. ~ 2 Abuts.
Anchor Bolts ~ ¾"ø x 10" with 2½"x 5/16" x 2½" 12 washers and nuts ~ 36 Req'd. 2 Abuts.
Roller may be turned from solid



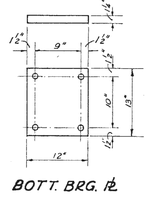
BOTT. BRG. 12



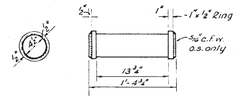
ROLLER



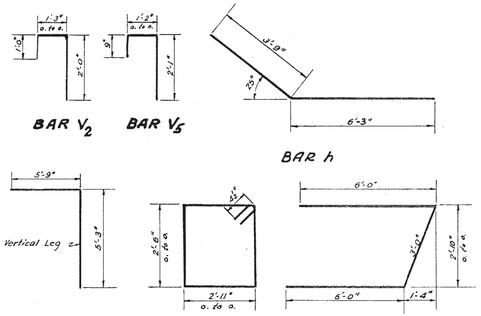
TOP BRG. 12



BOTT. BRG. 12



ROLLER



BILL OF MATERIAL — 2 ABUTMENTS

BAR	NO.	SIZE	LENGTH	SHAPE	BAR	NO.	SIZE	LENGTH	SHAPE
V	132	#4	3'-0"	—	h	48	#4	10'-0"	
V_1	88	#4	5'-3"	—	h_1	4	#4	32'-9"	—
V_2	90	#4	4'-3"	⌐	h_2	16	#4	22'-6"	—
V_3	24	#5	6'-3"	—	h_3	60	#4	6'-0"	—
V_4	32	#4	4'-0"	—	h_4	24	#4	1'-2"	—
V_5	20	#4	4'-0"	⌐	h_5	8	#4	2'-6"	—
					P_2	12	#7	46'-3"	—
d_1	8	#5	11'-0"	⌐	S_2	84	#4	11'-7"	□
					U_1	16	#6	15'-0"	⌐¬

CLASS X CONCRETE	CU. YDS.	47.7
REINFORCEMENT BARS	LBS.	4280
FURNISHING PRECAST CONCR. PILES ~ 16"	LIN. FT.	364
DRIVING PRECAST CONCR. PILES	LIN. FT.	364
TEST PILES	EACH	1
STRUCTURAL STEEL	LBS.	2770

LUCINDA AVENUE BRIDGE
SEC. 19B-CS
STA. 8+36
CITY OF DE KALB
DE KALB COUNTY

Approved 5/17/22 Darryl D. Radek

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - A.C.	REVISED -	
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.M.S.	REVISED -	
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -	

STATE OF ILLINOIS
CITY OF DEKALB

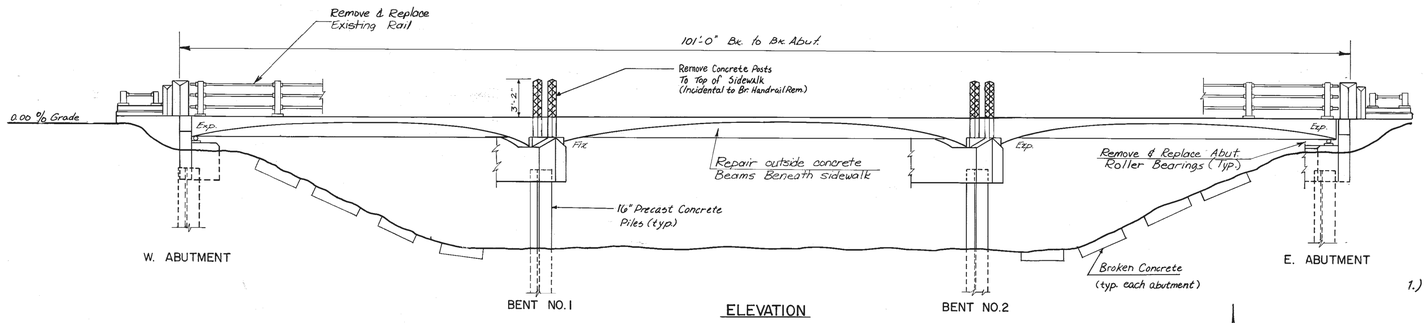
EXISTING PLANS - 1954
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S32 OF S34 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	54
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			

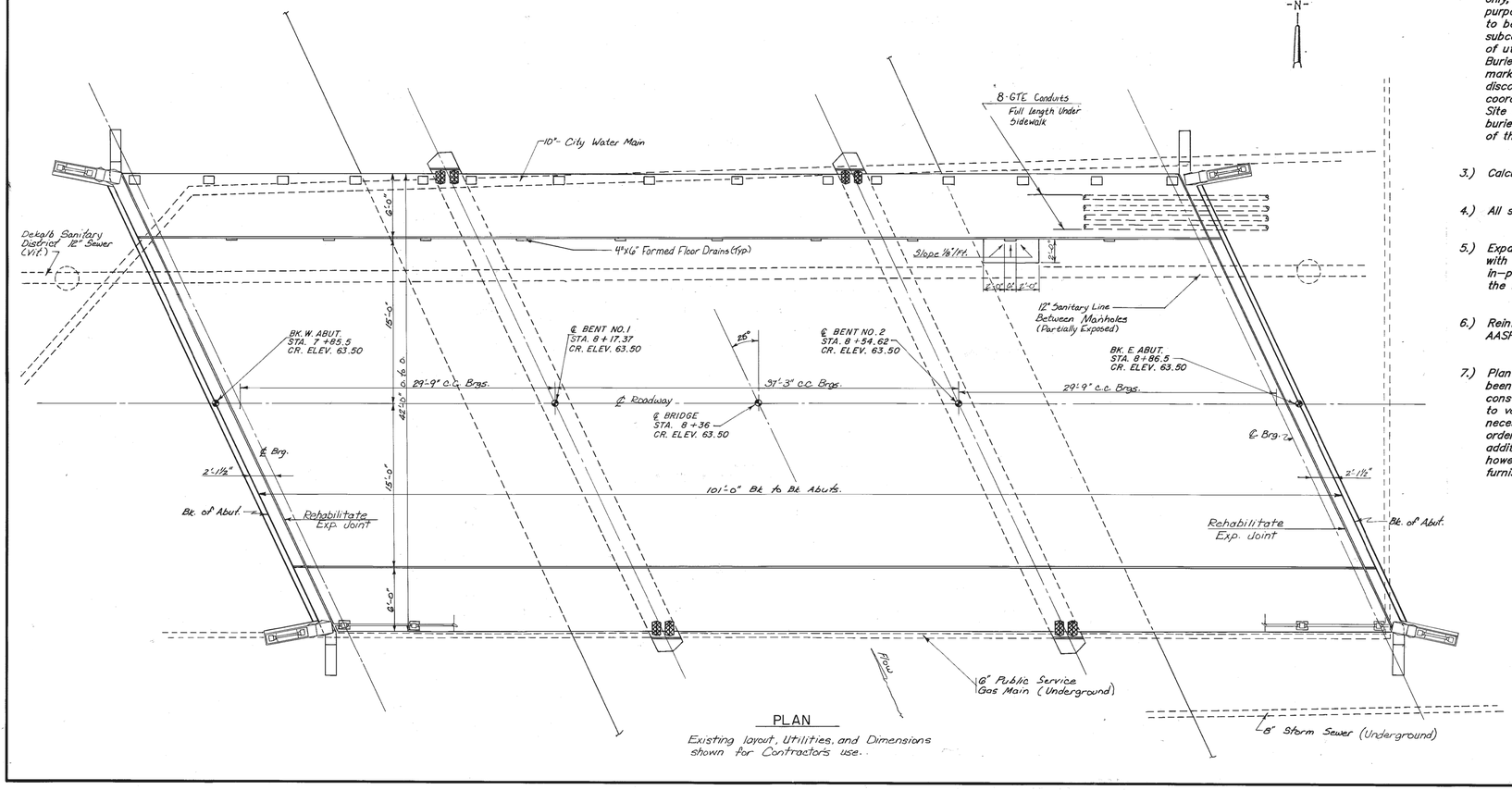
B.M. ~ N.W. Bolt on F.H. (Bench Mark used for original construction)
26' Rt. Sta. 7+27
Assumed datum El. 65.25

* 92-00125-04-BR

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
5336	*	DEKALB	6	3
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		



ELEVATION



PLAN

Existing layout, Utilities, and Dimensions shown for Contractors use.

GENERAL NOTES

1.) All work shall comply with the "Standard Specifications for Road and Bridge Construction", adopted July 1, 1988.

2.) The locations of those buried and aboveground utilities shown are approximate, are shown for contractor informational use only, and <u>are not</u> to be referenced for construction purposes. The implied presence or absence of utilities <u>is not</u> to be construed by the owner, engineer, contractor, or subcontractor to be an accurate and complete representation of utilities that may or may not exist on the construction site. Buried and aboveground utility location, identification, and marking are the sole responsibility of the contractor. Rerouting, disconnection protection, etc. of any utility <u>must</u> be coordinated between the contractor, utility company, and owner. Site safety, including the avoidance of hazards associated with buried and aboveground utilities, remains the sole responsibility of the contractor.

3.) Calculated weight of Structural Steel = 1780 lbs.

4.) All structural steel shall be AASHTO M 183.

5.) Expansion joint plates and attached bars shall be shop painted with the zinc-silicate primer. Expansion joint bars attached to in-place angles shall be field painted, after tack welding, with the zinc-silicate primer.

6.) Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-52 Grade 60.

7.) Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

GENERAL PLAN AND ELEVATION FOR REHABILITATION

LUCINDA AVE. BRIDGE
CITY OF DEKALB
DEKALB COUNTY
STA. 8+36

DESIGNED	SMK
CHECKED	PEB
DRAWN	MGM
CHECKED	SMK

HANSON ENGINEERS INCORPORATED
SPRINGFIELD, PEORIA & ROCKFORD, ILLINOIS

FILE NO. 90R1046
DATE 12-28-92

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - A.C.	REVISED -
	PLOT SCALE =	CHECKED - S.M.S.	REVISED -
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -

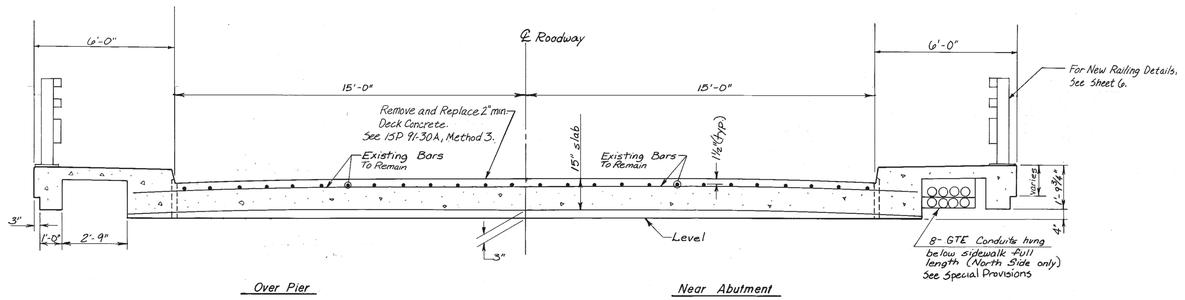
STATE OF ILLINOIS
CITY OF DEKALB

EXISTING PLANS - 1992
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S33 OF S34 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	55
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

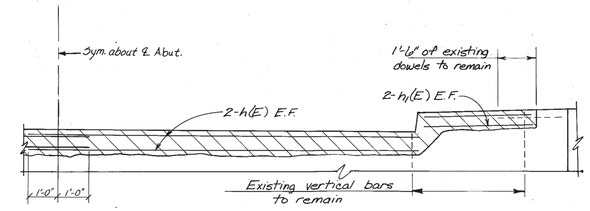
ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
5336	*	DEKALB	6	4
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

* 92-00125-04-BR



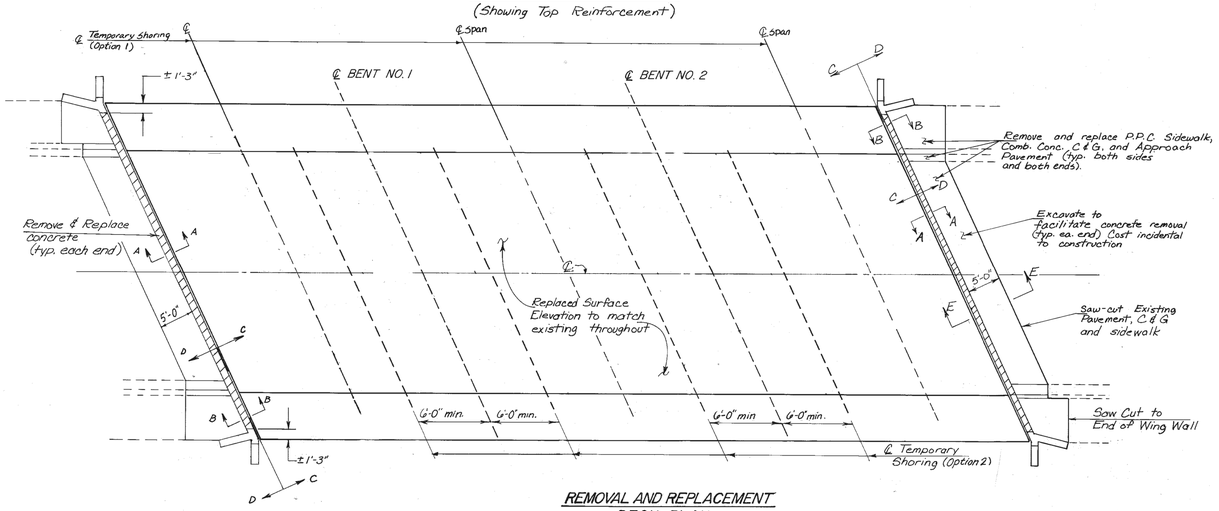
Over Pier

Near Abutment

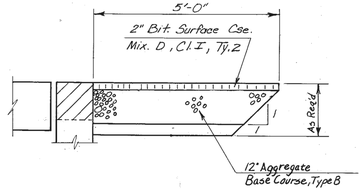


HALF ABUTMENT ELEVATION

DECK CROSS SECTION
(Showing Top Reinforcement)



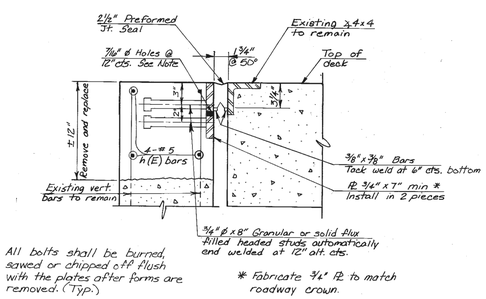
REMOVAL AND REPLACEMENT DECK PLAN



SECTION E-E
(Showing New Pavement)

BILL OF MATERIAL

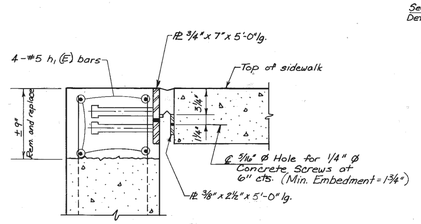
BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	16	#5	17'-6"	——
h(E)	16	#5	5'-0"	——
Concrete Removal			Cu. Yds.	3.1
Class X Concrete			Cu. Yds.	3.1
Rein. Bars (Epoxy Ct.)			Lbs.	380
Conc. Bridge Deck Surface Removal (Method 3)			Sq. Yds.	326
Bridge Deck Microsilica Concrete Overlay			Sq. Yds.	326
Preformed Jt. Seal - 2½"			Lin. Ft.	96
F&E Struct. Steel			L. Sum	1
Temp. Shoring & Cribbing			L. Sum	1
Sidewalk Rem. & Replace			Sq. Ft.	140
Comb. Conc. Curb & Gutter Rem. & Repl.			Lin. Ft.	22
Bituminous Conc. Surface Cse, Mix. D, Class I, Type 2			Ton	6
Agg. Base Course, Type B 12"			Sq. Yds.	37



All bolts shall be burned, sawed or chipped off flush with the plates after forms are removed. (Typ.)

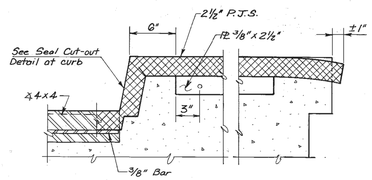
* Fabricate ¾" fl. to match roadway crown.

SECTION A-A

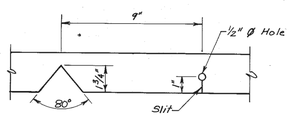


All else same as Section A-A.

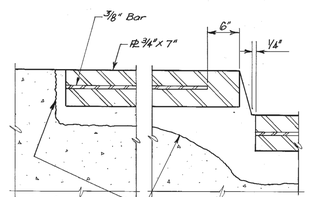
SECTION B-B
At Sidewalk



SECTION C-C



SEAL CUT-OUT DETAIL



SECTION D-D

DECK AND EXPANSION JOINT REPAIRS
LUCINDA AVE. BRIDGE
CITY OF DEKALB
DEKALB COUNTY
STA. 8+36

DESIGNED	SMK
CHECKED	PEB
DRAWN	MGM
CHECKED	SMK

HANSON ENGINEERS INCORPORATED
SPRINGFIELD, PEORIA & ROCKFORD, ILLINOIS

FILE NO. 90R1046
DATE 12-28-92

FILE NAME = 200251-sht-bridge Lucinda.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - A.C.	REVISED -	
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.M.S.	REVISED -	
	PLOT DATE = 5/13/2022	DATE - 5/13/2022	REVISED -	

STATE OF ILLINOIS
CITY OF DEKALB

EXISTING PLANS - 1992
LUCINDA AVENUE - STRUCTURE NO. 019-6109
SHEET NO. S34 OF S34 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DEKALB	133	56
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			

WETLAND IMPACT

WEST SIDE:

PERMANENT WETLAND IMPACT: 1691 S.F. (0.04 ACRES)

TEMPORARY WETLAND IMPACT: 1152 S.F. (0.03 ACRES)

EAST SIDE:

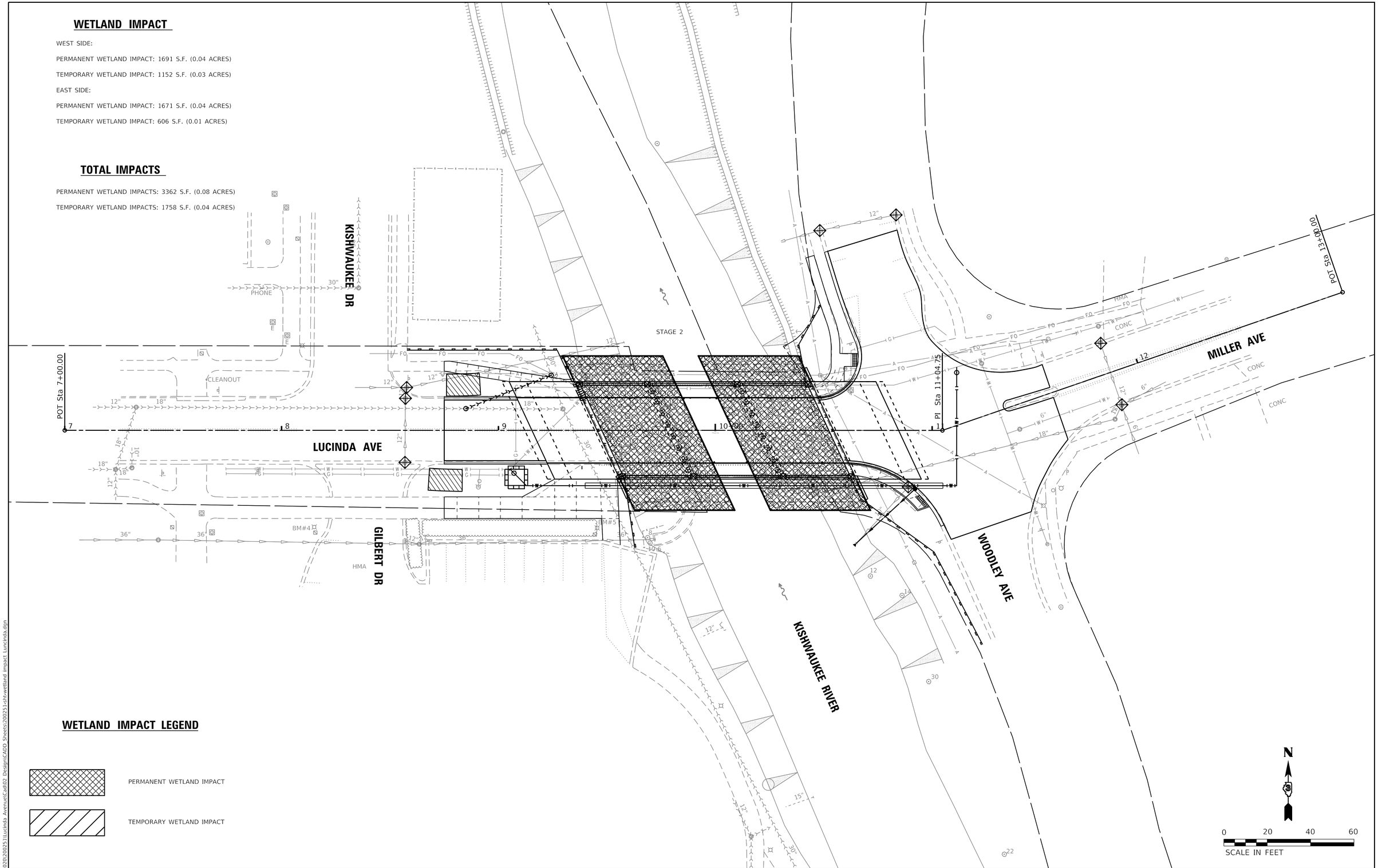
PERMANENT WETLAND IMPACT: 1671 S.F. (0.04 ACRES)

TEMPORARY WETLAND IMPACT: 606 S.F. (0.01 ACRES)

TOTAL IMPACTS

PERMANENT WETLAND IMPACTS: 3362 S.F. (0.08 ACRES)

TEMPORARY WETLAND IMPACTS: 1758 S.F. (0.04 ACRES)



WETLAND IMPACT LEGEND

PERMANENT WETLAND IMPACT

TEMPORARY WETLAND IMPACT

MODEL: Default
FILE NAME: P:\2020\20025\Lucinda Avenue\Cad\02 Design\CADD Sheets\20025-sht-wetland impact Lucinda.dgn

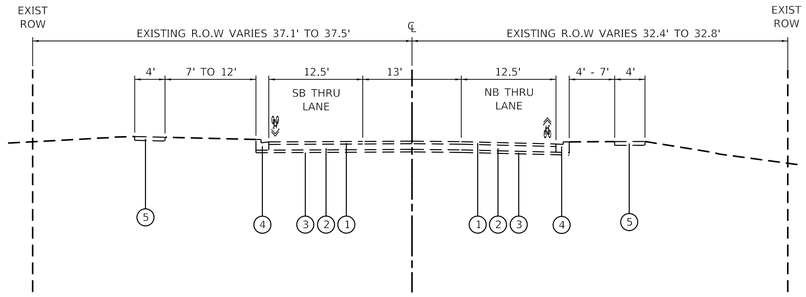
HAMPTON, LENZINI AND RENWICK, INC. 350 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	USER NAME = steves	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUCINDA AVENUE
WETLAND IMPACT DETAIL

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

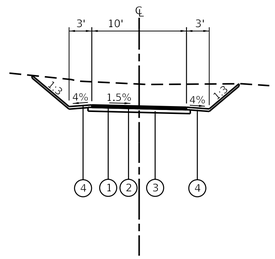
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	57
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		



TYPICAL EXISTING CROSS SECTION LEGEND

1. EXISTING BITUMINOUS SURFACE 4"
2. EXISTING BITUMINOUS BASE COURSE 9"
3. EXISTING SUB-BASE GRANULAR MATERIAL 4"
4. EXISTING CURB AND GUTTER, TYPE B-6.12
5. EXISTING SIDEWALK

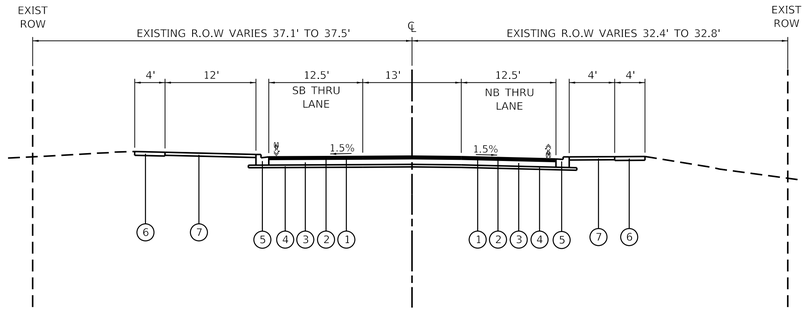
TYPICAL EXISTING CROSS SECTION – N 1ST STREET
STA. 8+50 TO STA. 9+67
STA. 10+33 TO STA. 11+50



TYPICAL PROPOSED CROSS SECTION – BIKE PATH
STA. 103+73 TO STA. 105+90

TYPICAL BIKE PATH CROSS SECTION LEGEND

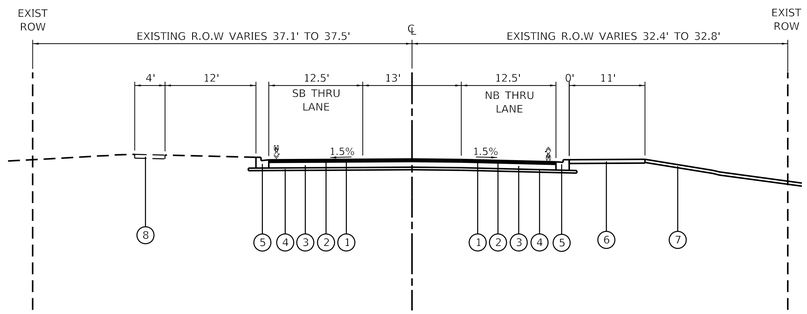
1. PROPOSED HOT MIX ASPHALT SURFACE COURSE, 2"
2. PROPOSED HOT MIX ASPHALT BINDER COURSE, 2"
3. PROPOSED SUB-BASE GRANULAR MATERIAL, TY B, 6"
4. PROPOSED TOPSOIL, 4" AND SEEDING, CL 4A
5. PROPOSED RETAINING WALL



TYPICAL PROPOSED CROSS SECTION LEGEND

1. PROPOSED HOT MIX ASPHALT SURFACE COURSE, 2"
2. PROPOSED HOT MIX ASPHALT BINDER COURSE, 2"
3. PROPOSED HOT MIX ASPHALT BASE COURSE, 9"
4. PROPOSED SUB-BASE GRANULAR MATERIAL 4"
5. PROPOSED CURB AND GUTTER, TYPE B-6.12
6. PROPOSED SIDEWALK, 5"
7. PROPOSED TOPSOIL, 4" AND SEEDING, CL 1A
8. EXISTING SIDEWALK

TYPICAL PROPOSED CROSS SECTION – N 1ST STREET
STA. 8+50 TO STA. 9+12.96



TYPICAL PROPOSED CROSS SECTION – N 1ST STREET
STA. 10+87.04 TO STA. 11+50

PAVEMENT DESIGN

DESIGN PERIOD: 20 YEARS (2042)

STRUCTURAL DESIGN TRAFFIC:
ADT: 9,250
DHV: 718 P + 22 SU/MU

ROADWAY CLASSIFICATION
MINOR ARTERIAL

HMA MIXTURE REQUIREMENT TABLE

LOCATIONS:	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA BINDER	HMA SURFACE	HMA DRIVEWAY 4" BOTTOM LIFT	HMA DRIVEWAY 4" TOP LIFT
BINDER GRADE (PG):	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 19.0	IL 9.5	IL 19.0	IL 9.5
FRICTION AGGREGATE:		MIXTURE D		
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA	QCQA	QCQA
SUBLOT SIZE:	N/A	N/A	N/A	N/A
DENSITY TEST METHOD:	LR1030-2	LR1030-2	LR1030-2	LR1030-2
MATERIAL TRANSFER DEVICE (REQUIRED):	NO	NO	NO	NO

MODEL: Default
FILE NAME: P:\2020\200251\North 1st Street\Cad\02 Design\CADD Sheets\200251-sht-typical NFS.dgn

HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

USER NAME = steves	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 5/13/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

N FIRST STREET
TYPICAL SECTIONS

SCALE: NONE | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	58
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			

21101615 TOPSOIL FURNISH AND PLACE, 4"
25000110 SEEDING, CLASS 1A
25000312 SEEDING, CLASS 4A
25000400 NITROGEN FERTILIZER NUTRIENT
25000600 POTASSIUM FERTILIZER NUTRIENT
28001100 TEMPORARY EROSION CONTROL BLANKET

LOCATION	TOPSOIL FURNISH AND PLACE, 4" (SQ YD)	SEEDING, CLASS 1A (ACRE)	SEEDING, CLASS 4A (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	TEMPORARY EROSION CONTROL BLANKET (SQ YD)
STA. 8+50 to STA. 9+31; LT	105	0.022		2	2	105
STA. 8+50 to STA. 9+55; RT	100	0.021		2	2	100
INSIDE BIKE PATH LOOP	988	0.204		19	19	988
STA. 101+00 to STA. 102+80; LT	233	0.048		5	5	233
STA. 104+20 to STA. 105+90; RT	327	0.068		7	7	327
STA. 100+00 to STA. 102+55; RT	517		0.107			517
STA. 103+48 to STA. 104+20; RT	172		0.036			172
TOTAL	**2442**	**0.363**	**0.143**	**35**	**35**	**2442**

50104400 CONCRETE HEADWALL REMOVAL
55100700 STORM SEWER REMOVAL 15"
55101600 STORM SEWER REMOVAL 36"
60500040 REMOVING MANHOLES
60500060 REMOVING INLETS
SANITARY FORCE MAIN REMOVAL, 20"

LOCATION	CONCRETE HEADWALL REMOVAL (EACH)	STORM SEWER REMOVAL 15" (FOOT)	STORM SEWER REMOVAL 36" (FOOT)	REMOVING MANHOLES (EACH)	REMOVING INLETS (EACH)	SANITARY FORCE MAIN REMOVAL, 20" (FOOT)
STA. 9+34 to STA. 9+74; 22' RT		40				
STA. 10+44; 41' RT	1					
STA. 10+44 to STA. 11+35; RT			88			
STA. 10+37 to STA. 11+37; 50' RT		100				
STA. 11+11; 25' RT				1		
STA. 11+37; 57' RT					1	
STA. 10+88 to STA. 11+07; RT						66
TOTAL	**1**	**140**	**88**	**1**	**1**	**66**

28000400 PERIMETER EROSION BARRIER
28000510 INLET FILTERS

LOCATION	PERIMETER EROSION BARRIER (FOOT)	INLET FILTERS (EACH)
NORTHWEST QUADRANT	300	
NORTHEAST QUADRANT	210	
SOUTHWEST QUADRANT	95	
SOUTHEAST QUADRANT	100	
STA. 7+30; 19' LT		1
STA. 7+50; 19' RT		1
STA. 12+46; 19' LT		1
STA. 12+46; 19' RT		1
TOTAL	**705**	**4**

42400200 PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH

LOCATION	AREA (SQ FT)
STA. 8+50 to STA. 9+05; LT	252
STA. 8+50 to STA. 9+25; RT	413
STA. 10+95 to STA. 11+50, RT	1530
STA. 100+00 to STA. 102+93; LT	2068
TOTAL	**4263**

60603800 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

STATION BEGIN	STATION END	LENGTH (FOOT)
8+50.00 RT	9+21.00 RT	71.00
8+55.00 LT	9+05.00 LT	50.00
10+79.00 LT	11+50.00 LT	71.00
10+95.00 RT	11+50.00 RT	55.00
101+00.00 LT	101+15.00 LT	15.00
	TOTAL	**262.00**

SANITARY FORCE MAIN, 20"

LOCATION	SANITARY FORCE MAIN, 20" (FOOT)
STA. 10+88 to STA. 11+07; RT	72
TOTAL	**72**

MODEL: Default
FILE NAME: P:\2020\20025\1\North 1st Street\Cad\02 Design\CADD Sheets\20025 1-sht-schedule N1S.dgn

HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP: 184.000959

USER NAME = steves | PLOT SCALE = 1.0000 ' / in. | PLOT DATE = 5/13/2022
DESIGNED - | DRAWN - | CHECKED - | DATE -
REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

N FIRST STREET
SCHEDULE OF QUANTITIES
SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DeKALB	133	59
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

31101200 SUBBASE GRANULAR MATERIAL, TYPE B 4"
31101400 SUBBASE GRANULAR MATERIAL, TYPE B 6"
40600290 BITUMINOUS MATERIALS (TACK COAT)
40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50
40604060 HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50

LOCATION	SUBBASE GRANULAR MATERIAL, TYPE B 4" (SQ YD)	SUBBASE GRANULAR MATERIAL, TYPE B 6" (SQ YD)	BITUMINOUS MATERIALS (TACK COAT) (POUND)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (TON)	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 (TON)
MAINLINE SOUTH OF BRIDGE	266		60	164	30
STA. 9+38 to STA. 9+60; RT		40	8	4	4
MAINLINE NORTH OF BRIDGE	266		60	164	30
STA. 10+65 to STA. 10+95; LT		43	10	5	5
STA. 103+73 to STA. 105+90		268	60	27	27
TOTAL	**532**	**351**	**198**	**364**	**96**

54213660 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"
54214521 PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 36"
550A0360 STORM SEWERS, CLASS A, TYPE 2 15"
550A5300 STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 36"
60223800 MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID

LOCATION	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15" (EACH)	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 36" (EACH)	STORM SEWERS, CLASS A, TYPE 2 15" (FOOT)	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 36" (FOOT)	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID (EACH)
STA. 9+34 to STA. 9+62, 22' RT			28		
STA. 9+62; 22' RT	1				
STA. 10+54; 44' RT		1			
STA. 10+54 to STA. 11+33; RT				80	
STA. 11+33.3; 24.5' RT					1
TOTAL	**1**	**1**	**28**	**80**	**1**

HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

N FIRST STREET
SCHEDULE OF QUANTITIES

SCALE: NONE | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DeKALB	133	60
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: P:\2020\200251\North 1st Street\Cad\02 Design\CADD Sheets\200251-sht-schedule NFS.dgn

44000100 PAVEMENT REMOVAL
44000200 DRIVEWAY PAVEMENT REMOVAL
44000500 COMBINATION CURB AND GUTTER REMOVAL
44000600 SIDEWALK REMOVAL

LOCATION	PAVEMENT REMOVAL (SQ YD)	DRIVEWAY PAVEMENT REMOVAL (SQ YD)	COMBINATION CURB AND GUTTER REMOVAL (FOOT)	SIDEWALK REMOVAL (SQ FT)
STA. 8+50 to STA. 9+67	505			
STA. 8+55 to STA. 9+56; LT			102	
STA. 8+50 to STA. 9+75; RT			126	888
STA. 8+50 to STA. 9+56: LT				464
STA. 10+25 to STA. 11+50; LT			125	
STA. 10+42 to STA. 11+50; RT			108	
STA. 10+33 to STA. 11+50	507			
STA. 10+65 LT to STA. 10+95 LT		28		
STA. 10+25 to STA. 10+94; LT				345
STA. 10+43 to STA. 12+33; RT				828
STA. 100+00 to STA. 101+15; LT		52	117	
STA. 100+00 to STA. 102+75; LT				1168
TOTAL	**1012**	**80**	**578**	**3693**

780001100 PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS
78001110 PAINT PAVEMENT MARKING - LINE 4"

LOCATION	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS (SQ FT)	PAINT PAVEMENT MARKING - LINE 4" (FOOT)
STA. 8+50 to STA. 11+50; 6.5' RT		375
STA. 8+50 to STA. 11+50; 6.5' LT		375
STA. 9+00, CL	31.2	
STA. 11+35; CL	31.2	
STA. 100+48 to STA. 103+73; 5' RT		325
STA. 100+48 to STA. 103+73; 5' LT		325
TOTAL	**62.4**	**1400**

20200100 EARTH EXCAVATION

EARTHWORK SUMMARY				
LOCATION	EARTH EXCAVATION (CU YD)	EXCAVATION AVAILABLE FOR EMBANKMENT ADJUSTED FOR SHRINKAGE 15% (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
N FIRST STREET				
Path East of Bridge	182.5	155.1	151.3	3.8
Path West of Bridge	551.3	468.6	0.6	468.0
Site Regrading	0.0	0.0	116.5	-116.5
PROJECT TOTAL	734	624	268	355

MODEL: Default
FILE NAME: P:\2020\200251\North 1st Street\Cad\02 Design\CADD Sheets\200251-sht-schedule NFS.dgn

HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

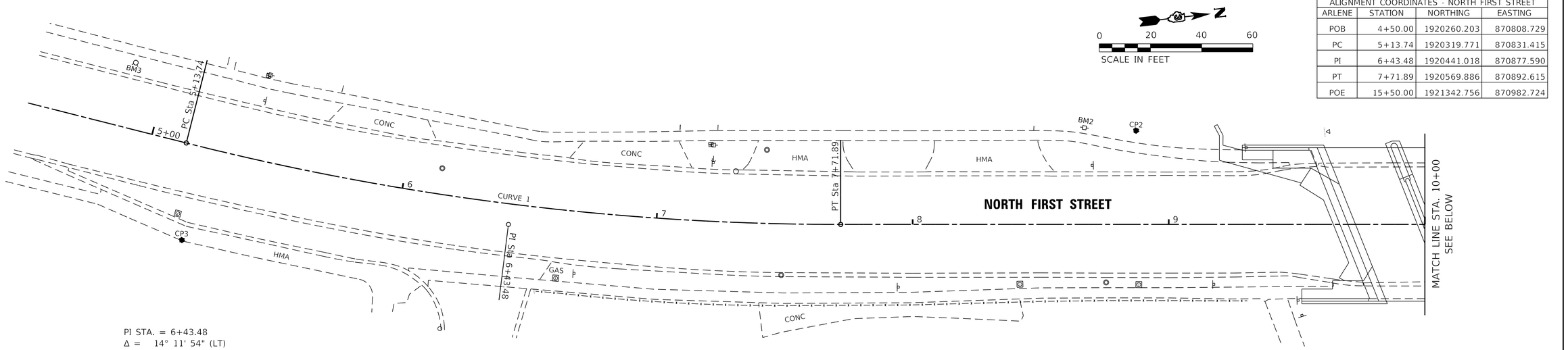
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

N FIRST STREET
SCHEDULE OF QUANTITIES

SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DeKALB	133	61
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

ALIGNMENT COORDINATES - NORTH FIRST STREET			
ARLENE	STATION	NORTHING	EASTING
POB	4+50.00	1920260.203	870808.729
PC	5+13.74	1920319.771	870831.415
PI	6+43.48	1920441.018	870877.590
PT	7+71.89	1920569.886	870892.615
POE	15+50.00	1921342.756	870982.724



PI STA. = 6+43.48
Δ = 14° 11' 54" (LT)
D = 5° 30' 00"
R = 1,041.74'
T = 129.74'
L = 258.15'
E = 8.05'
P.C. STA. = 5+13.74
P.T. STA. = 7+71.89

BENCHMARKS

BM1

RR SKIPE IN POWER POLE
STA. 15+04: 49' RT
ELEV=844.306

BM2

RR SKIPE IN POWER POLE
STA. 8+67; 38' LT
ELEV=844.274

BM3

NW BOLT ON FIRE HYDRANT
STA. 4+87; 25' LT
ELEV=843.982

CONTROL POINTS

CP1

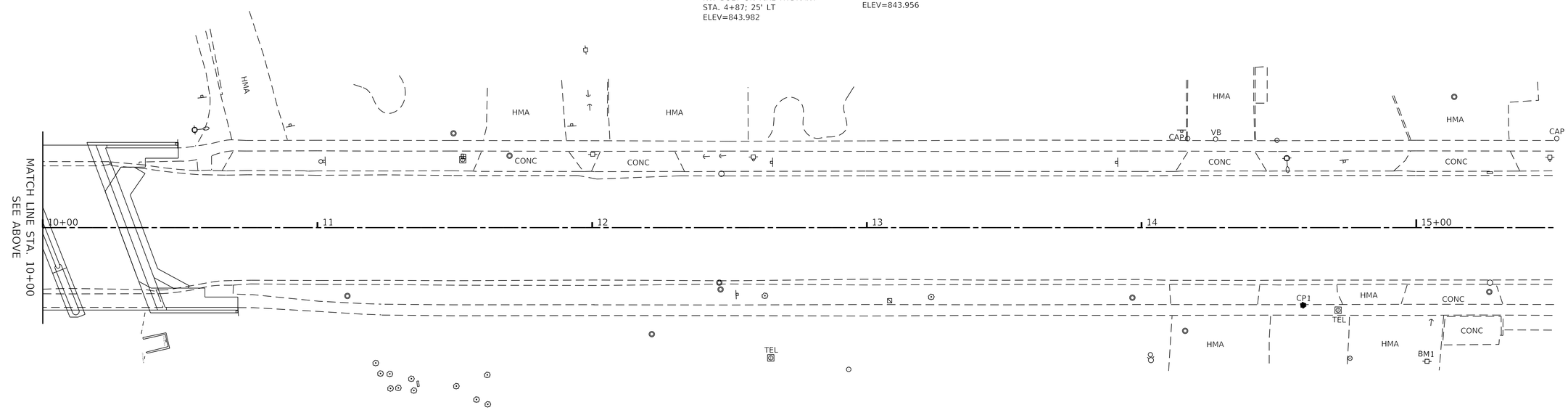
CUT CROSS IN SIDEWALK
N=1,921,248.929
E= 871,000.184
STA. 14+58.83; 28.21' RT
ELEV=842.612

CP2

SET IRON ROD WITH HLR CAP
N=1,920,688.717
E= 870,869.558
STA. 8+87.26, 36.66' LT
ELEV=843.956

CP3

CUT CROSS IN SIDEWALK
N=1,920,313.702
E= 870,868.875
STA. 5+21.14, 37.19' RT
ELEV=842.402



MODEL: Default
FILE NAME: P:\2020\20025\1\North 1st Street\Cad\02 Design\CADD Sheets\200251-dn-ATB NFS.dgn

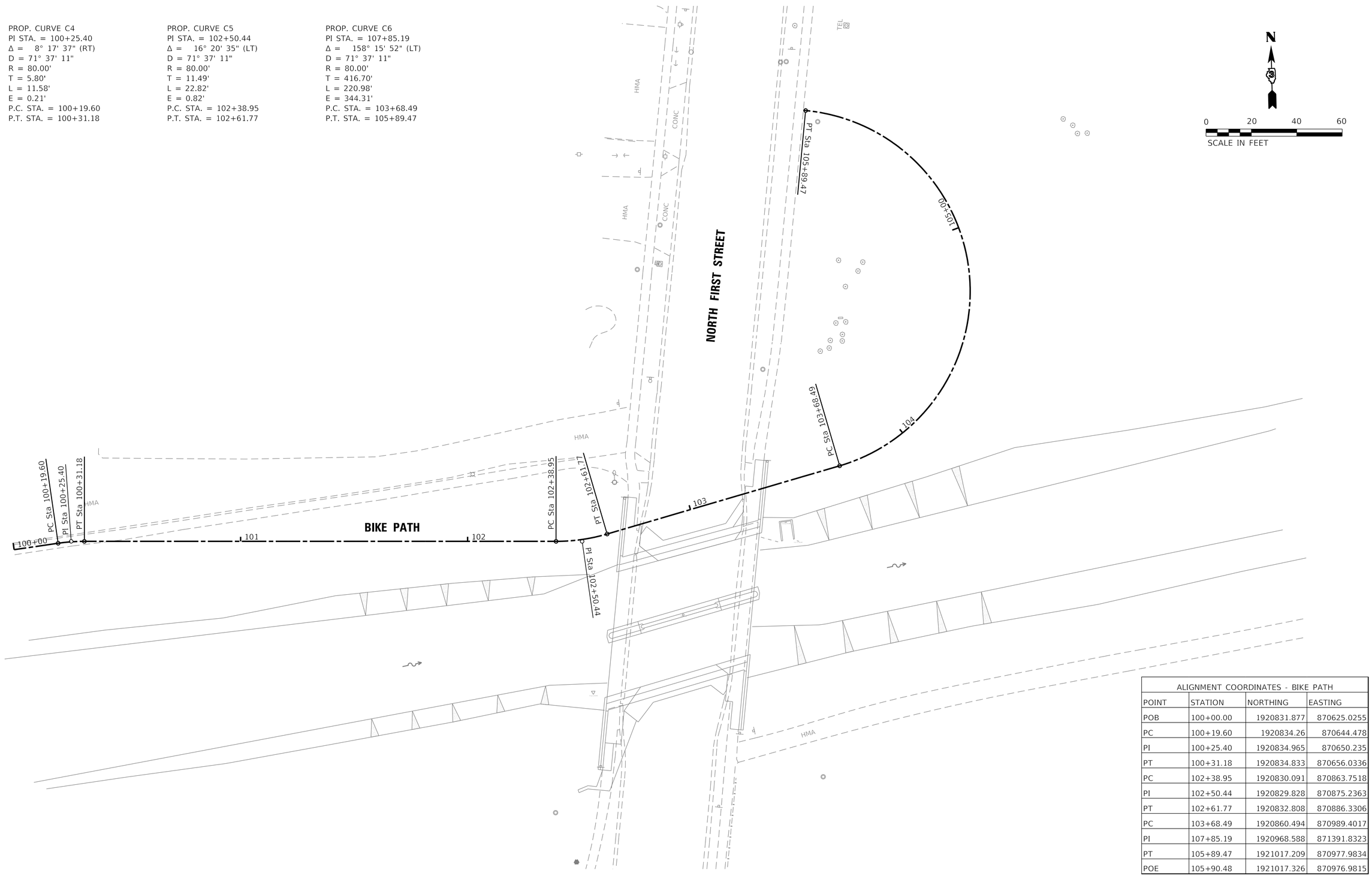
HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	USER NAME = steves	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH FIRST STREET ALIGNMENT, CONTROL AND BENCHMARKS
		DRAWN -	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -		SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.
	PLOT DATE = 5/13/2022	DATE -	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	62
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

PROP. CURVE C4
PI STA. = 100+25.40
Δ = 8° 17' 37" (RT)
D = 71° 37' 11"
R = 80.00'
T = 5.80'
L = 11.58'
E = 0.21'
P.C. STA. = 100+19.60
P.T. STA. = 100+31.18

PROP. CURVE C5
PI STA. = 102+50.44
Δ = 16° 20' 35" (LT)
D = 71° 37' 11"
R = 80.00'
T = 11.49'
L = 22.82'
E = 0.82'
P.C. STA. = 102+38.95
P.T. STA. = 102+61.77

PROP. CURVE C6
PI STA. = 107+85.19
Δ = 158° 15' 52" (LT)
D = 71° 37' 11"
R = 80.00'
T = 416.70'
L = 220.98'
E = 344.31'
P.C. STA. = 103+68.49
P.T. STA. = 105+89.47



ALIGNMENT COORDINATES - BIKE PATH			
POINT	STATION	NORTHING	EASTING
POB	100+00.00	1920831.877	870625.0255
PC	100+19.60	1920834.26	870644.478
PI	100+25.40	1920834.965	870650.235
PT	100+31.18	1920834.833	870656.0336
PC	102+38.95	1920830.091	870863.7518
PI	102+50.44	1920829.828	870875.2363
PT	102+61.77	1920832.808	870886.3306
PC	103+68.49	1920860.494	870989.4017
PI	107+85.19	1920968.588	871391.8323
PT	105+89.47	1921017.209	870977.9834
POE	105+90.48	1921017.326	870976.9815

MODEL: Default
FILE NAME: P:\2020\20025\1\North 1st Street\Cad\02 Design\CADD Sheets\20025 1-sht-ATB BikePath.dgn

HAMPTON, LENZINI AND RENWICK, INC.
360 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

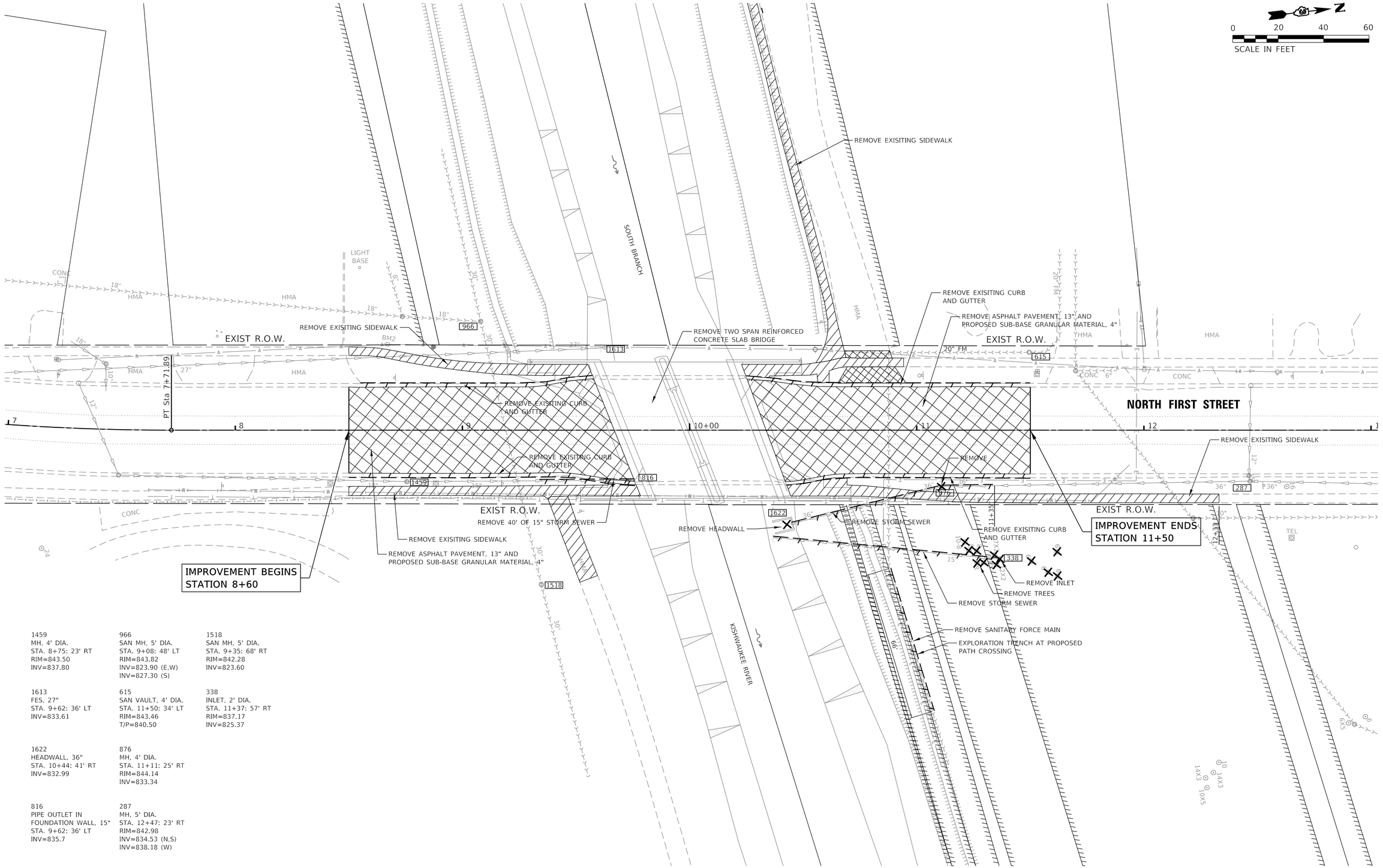
USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BIKE PATH
ALIGNMENT AND COORDINATES

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	63
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		



1459
MH, 4' DIA.
STA. 8+75: 23' RT
RIM=843.50
INV=837.80

966
SAN MH, 5' DIA.
STA. 9+08: 48' LT
RIM=843.82
INV=823.90 (E,W)
INV=827.30 (S)

1518
SAN MH, 5' DIA.
STA. 9+35: 68' RT
RIM=842.28
INV=823.60

1613
FES, 27"
STA. 9+62: 36' LT
INV=833.61

615
SAN VAULT, 4' DIA.
STA. 11+50: 34' LT
RIM=843.46
T/P=840.50

338
INLET, 2' DIA.
STA. 11+37: 57' RT
RIM=837.17
INV=825.37

1622
HEADWALL, 36"
STA. 10+44: 41' RT
INV=832.99

876
MH, 4' DIA.
STA. 11+11: 25' RT
RIM=844.14
INV=833.34

816
PIPE OUTLET IN FOUNDATION WALL, 15"
STA. 9+62: 36' LT
INV=835.7

287
MH, 5' DIA.
STA. 12+47: 23' RT
RIM=842.98
INV=834.53 (N,S)
INV=838.18 (W)

MODEL: Default
FILE NAME: P:\2020\20025\1\North 1st Street\Cad\02 Design\CADD Sheets\200251-sht-removal NFS.dgn

HAMPTON, LENZINI AND RENWICK, INC.
350 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH FIRST STREET
REMOVAL PLAN

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	64
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

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

PROFILE
SURVEYED
PLOTTED
DESIGNED
CHECKED
QUANTITIES
B.M. NOTED
STRUCTURE NO
DATE
BY

MODEL: Default
FILE NAME: P:\2020\20025\North 1st Street\Cad\02 Design\CADD Sheets\20025 i-sht-PlnPrf NFS.dgn

SCALE IN FEET
0 20 40 60

STA. 10+00
CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE
3 SPANS: 35'-0", 43'-0", 35'-0"
40' ROADWAY; SKEW = 21.5°
PROPOSED S.N. 019-6108

PROPOSED HMA SURFACE 2"
PROPOSED HMA BINDER COURSE 2"
PROPOSED SUB-BASE GRANULAR MATERIAL 6"

PROPOSED HMA SURFACE 2"
PROPOSED HMA BINDER COURSE 11"
PROPOSED SUB-BASE GRANULAR MATERIAL 4"

PROPOSED CURB AND GUTTER, TYPE B-6.12

EXIST R.O.W.

SOUTH BRANCH

KISHWAUKEE RIVER

NORTH FIRST STREET

APPROXIMATE AREA ESTIMATED TO EXCEED SOIL REFERENCE CONCENTRATIONS. MATERIAL MAY BE MANAGED AS NON-SPECIAL WASTE (a(5))

EX. 4' SIDEWALK

IMPROVEMENT BEGINS
STATION 8+50

IMPROVEMENT ENDS
STATION 11+50

PT Sta 7+71.89

MH-1
MANHOLE TY A, 6' DIA.
TY 1 F&G
STA. 11+33.3; 24.5' RT
RIM=843.95
INV=833.4 (N)
INV=831.40 (E)

FES-2
FLARED END SECTION
36" EQUIV. ROUND
STA. 10+54.1; 44.0' RT
INV=831.00

FES-3
FLARED END SECTION
15" DIA.
STA. 9+62.0; 22.1' RT
INV=836.80

P-3
STORM SEWER, CL A, TY 2
36" EQUIV. ROUND
80' @ 0.5%

P-4
STORM SEWER, CL A, TY 2
15" DIA.
28' @ 0.5%
INV=837.00 AT BRIDGE CAP

PROPOSED RETAINING WALL

PROPOSED MULTI-USE PATH

EXIST SN 019-6000
2 SPAN REINFORCED CONCRETE SLAB BRIDGE ON CLOSED CONCRETE ABUTMENTS AND SOLID WALL PIER.
66.9' BK-BK, 64.5' 0-0 DECK

K = 103
100.00' V.C.

K = 38
110.00' V.C.

K = 102
195.00' V.C.

100 YEAR H.W. ELEV. 842.8
15 YEAR H.W. ELEV. 841.8

EXISTING ℄ GRADE

PROPOSED ℄ GRADE

+0.47%
+1.44%
-1.45%
+0.46%

VPI STA. 8+40.00
ELEVATION 843.24

VPI STA. 10+00.00
ELEVATION 845.55

VPI STA. 11+75.00
ELEVATION 843.02

VPI STA. 12+72.50
ELEVATION 843.47

842.98
+90.00 EL. 843.00
+90.00 EL. 843.96
+45.00 EL. 844.76
+55.00 EL. 844.75
+77.50 EL. 844.43
+77.50 EL. 843.37

CHANNEL EXCAVATION
EX. 15" STORM
15" STORM @ 0.50%
STONE RIPRAP, CLASS 4A
NW ELEV. 832.0
℄ ELEV. 830.8
36" STORM OUTFALL
15" STORM OUTFALL
36" EQUIV. ROUND STORM @ 0.50%

843.03 842.82 843.05 843.06 843.46 843.46 844.00 844.11 844.46 844.82 844.8 845.15 844.56 844.82 844.16 844.13 843.64 843.64 843.40 843.39 843.37 843.39 843.59

7+00 7+50 8+00 8+50 9+00 9+50 10+00 10+50 11+00 11+50 12+00 12+50 13+00

HAMPTON, LENZINI AND RENWICK, INC.	
ELGIN · SPRINGFIELD WOODRIDGE · MT CARMEL	
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	
USER NAME = steves	DESIGNED - J.W.F.
	DRAWN - SMS
PLOT SCALE = 20.0000 ' / in.	CHECKED - S.W.M.
PLOT DATE = 5/13/2022	DATE - $DATE


REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
CITY OF DEKALB

PLAN AND PROFILE
NORTH FIRST STREET

SCALE: 5V:20H | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.U	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	65
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			



PLAN	NOTE BOOK NO.	SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.T. OF WAY CHECKED / CADD FILE NAME	BY	DATE	
PROFILE	NOTE BOOK NO.	SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHECKED	BY	DATE	

FILE NAME: P:\2020\200251\North 1st Street\Cad\02 Design\CADD_Sheets\200251-sht-PlsPrf BikePath.dgn
MODEL: Default

HAMPTON, LENZINI AND RENWICK, INC. ELGIN · SPRINGFIELD WOODRIDGE · MT CARMEL ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	USER NAME = steves	DESIGNED - --	REVISED -
		DRAWN - SMS	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - --	REVISED -
	PLOT DATE = 5/13/2022	DATE - --	REVISED -

STATE OF ILLINOIS
CITY OF DEKALB

PLAN AND PROFILE
BIKE PATH

SCALE: 20" = 1' | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	16-00190-00-BR	DEKALB	133	66
		CONTRACT NO. 87779		
		ILLINOIS	FED. AID PROJECT	

DETOUR PLAN

LEGEND

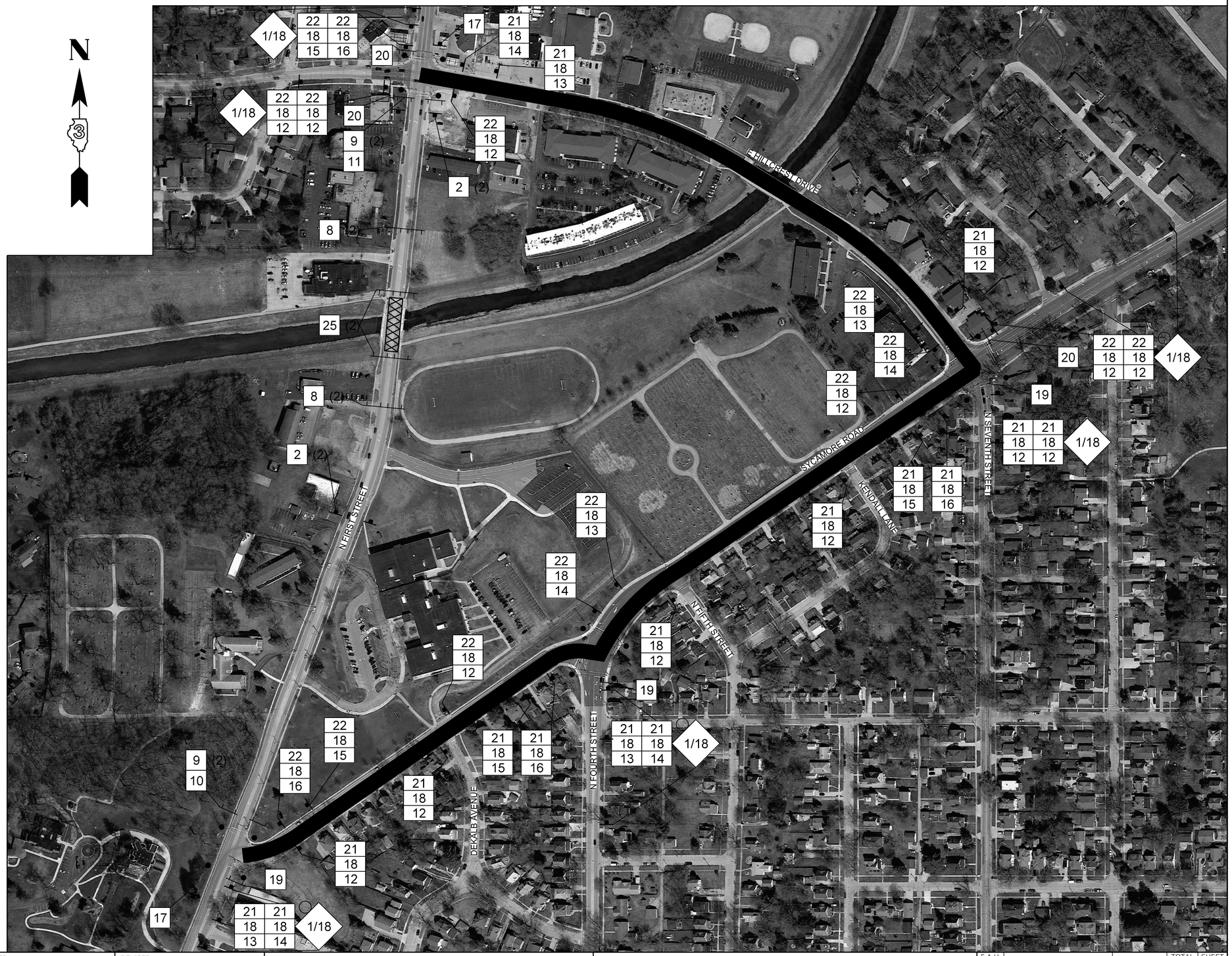
- SIGNALIZED INTERSECTION
- 48"X48" CONSTRUCTION WARNING SIGN, WITH AMBER FLASHING LIGHT NUMBER DENOTES TYPE
- M4-9 SERIES DETOUR SIGN WITH ROAD NAME AND DIRECTION PLATES, NUMBER DENOTES TYPE
- OTHER DETOUR SIGNS, NUMBER DENOTES TYPE
- TYPE III BARRICADE WITH AMBER FLASHING LIGHTS
- DETOUR ROUTE
- AREA OF CONSTRUCTION

SPECIAL DETOUR NOTES:

1. THE CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO THE DETOUR GENERAL NOTES. SEE SHEET 69 FOR THE DETOUR GENERAL NOTES.

2. SEE SHEET 68 FOR INFORMATION ON THE DESIGN AND LOCATION OF THE DETOUR INFORMATION SIGNS.

3. A MINIMUM OF 20 TYPE III BARRICADES WILL BE NEEDED FOR THIS DETOUR AND ROAD CLOSURE. SEE DETOUR GENERAL NOTE 9.



MODEL: Default
FILE NAME: P:\2020\20025\North 1st StreetCad\02 Design\CADD Sheets\20025-I-sht-detour NFS.dgn

HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	USER NAME = steves	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH FIRST STREET
DETOUR PLAN

SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	67
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			

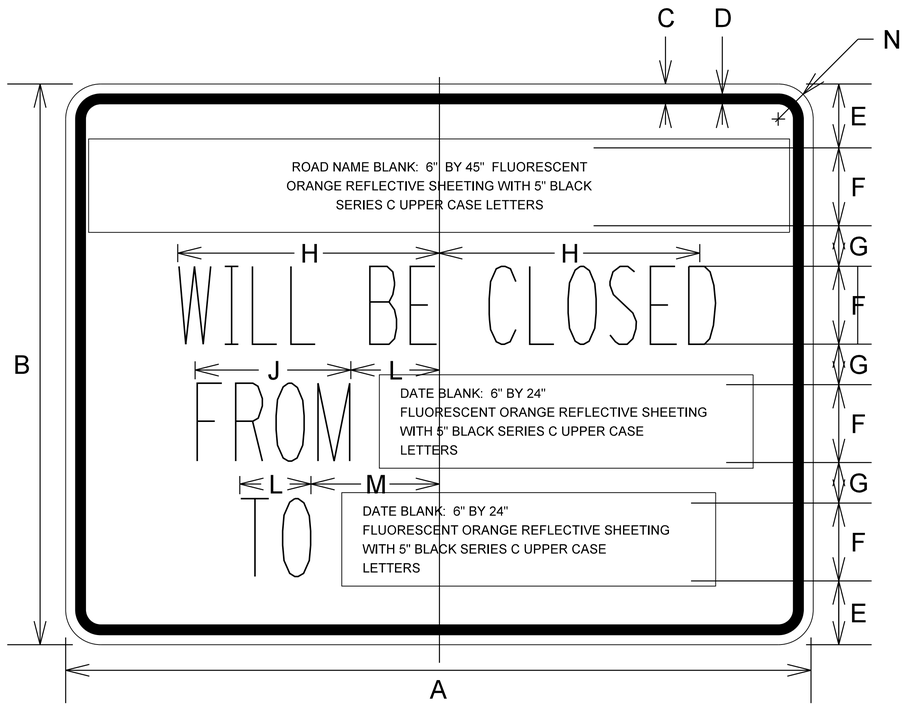
NUMBER OF SIGNS 7

N FIRST STREET
WILL BE CLOSED
FROM SEPT. 30
TO OCT. 30

DATES SHOWN ARE FOR EXAMPLE ONLY

NUMBER OF SIGNS ____

ROAD NAME
WILL BE CLOSED
FROM SEPT. 30
TO OCT. 30



NOTE: SIGN SHEETING SHALL BE FLUORESCENT ORANGE WITH 5 INCH (125 mm) BLACK SERIES C LETTERS

DIMENSIONS (ENGLISH)

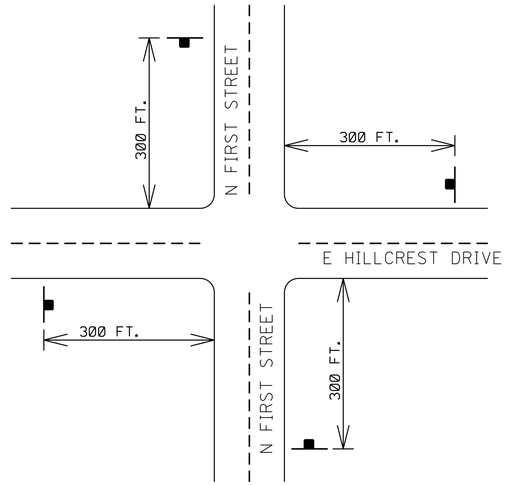
A	48"
B	36"
C	5/8"
D	7/8"
E	4 1/8"
F	5"
G	2 5/8"
H	9 3/4"
J	12"
K	5 1/2"
L	5 1/2"
M	8 1/2"
N	2 1/4"

LOCATIONS OF PRE-DETOUR INFORMATION SIGNS BY INTERSECTION

N.B. N FIRST STREET, SOUTH OF E HILLCREST DRIVE
S.B. N FIRST STREET, NORTH OF E HILLCREST DRIVE
E.B. E HILLCREST DRIVE, WEST OF N FIRST STREET
W.B. E HILLCREST DRIVE, EAST OF N FIRST STREET
N.B. N FIRST STREET, SOUTH OF SYCAMORE ROAD
S.B. N FIRST STREET, NORTH OF SYCAMORE ROAD
W.B. SYCAMORE ROAD, EAST OF N FIRST STREET

NOTE:
THESE SIGNS SHALL BE INSTALLED 7-10 CALENDAR DAYS PRIOR TO THE DETOUR AND ROAD CLOSURE. THE SIGNS SHALL BE REMOVED THE DAY THE DETOUR BEGINS.

SIGN LAYOUT FOR PRE-DETOUR INFORMATION SIGNS AT THE INTERSECTION OF N FIRST STREET AND E HILLCREST DRIVE. SIGNS AT N FIRST STREET AND SYCAMORE ROAD WILL BE INSTALLED IN A SIMILAR FASHION.



MODEL: Default
FILE NAME: P:\2020\20251\North 1st Street\Cad\02 Design\CADD Sheets\20251-sht-detour NFS.dgn

HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	USER NAME = steves	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH FIRST STREET DETOUR PLAN			
		DRAWN -	REVISED -					
	PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -					
	PLOT DATE = 5/13/2022	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	68
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

SIGN NO.	SIGN	SIGN TYPE	QUANTITY
1	DETOUR AHEAD	W20-2 (O) 48	6
2	ROAD CLOSED 500 FT	W20-3 (O) 48	4
3	ROAD CLOSED 1500 FT	W20-3 (O) 48	0
4	ROAD CLOSED AHEAD	W20-3 (O) 48	0
5	BARRICADE 500 FT	W21-1100 (O) 48	0
6	ROAD CLOSED	R11-2 4830	0
7	ROAD CLOSED XX MILE AHEAD LOCAL TRAFFIC ONLY	R11-3 6030	0
8	ROAD CLOSED TO THRU TRAFFIC	R11-4 6030	4
9	BRIDGE CLOSED XX MILE AHEAD LOCAL TRAFFIC ONLY	R11-3 6030	4
10	DETOUR	M4-10R (O) 4818	2
11	DETOUR	M4-10L (O) 4818	2
12	DETOUR	M4-9 (O) 3021	14
13	DETOUR	M4-9R (O) 3021	5
14	DETOUR	M4-9R (O) 3021	5
15	DETOUR	M4-9L (O) 3021	4
16	DETOUR	M4-9L (O) 3021	4
17	END DETOUR	M4-8a (O) 2418	2
18	N FIRST STREET	SPECIAL (O) 9 VARIABLE	38
19	N.B. N FIRST STREET CLOSED TO THRU TRAFFIC FOLLOW DETOUR	SPECIAL (O) 6030	3
20	S.B. N FIRST STREET CLOSED TO THRU TRAFFIC FOLLOW DETOUR	SPECIAL (O) 6030	3
21	NORTH	M3-1 (O) 2412	17
22	SOUTH	M3-2 (O) 2412	15
23	EAST	M3-3 (O) 2412	0
24	WEST	M3-4 (O) 2412	0
25	BRIDGE OUT	R11-2 4830	4

DETOUR GENERAL NOTES

1. ALL SIGNING SHALL BE ACCORDING TO THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JAN. 1, 2022", " THE QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES ADOPTED 2016", THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", AND THE CONTRACT SPECIAL PROVISIONS.
2. THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT. THE ENGINEER SHALL DETERMINE THE HOUR OF CLOSURE. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.
3. IF DEEMED NECESSARY BY THE ENGINEER A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR SHALL BE HELD AT LEAST TWO WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT.
4. THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE AND HIS REPRESENTATIVE RESPONSIBLE FOR THE DETOUR SIGNING PRIOR TO THE START OF THE WORK. THE CITY OF DEKALB REPRESENTATIVE FOR THIS DETOUR IS:

   ZAC GILL
   CITY OF DEKALB
   CITY ENGINEER
   164 E. LINCOLN HIGHWAY
   DEKALB, ILLINOIS 60115
   (815) 748-2331

5. IF REQUESTED BY THE CONTRACTOR IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT THE ENGINEER WILL FIELD LOCATE THE POSITIONS OF ANY SIGNS.
6. LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS, WITH THE APPROVAL OF THE ENGINEER.
7. THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED ACCORDING TO THE DETOUR PLAN AND INSPECTED & APPROVED BY THE ENGINEER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS, AND OTHER DEVICES INSTALLED BY HIM/HER ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THE DETOUR IS IN EFFECT.
9. THE TRAFFIC CONTROL SHOWN ON THE DETOUR PLAN IS THE MINIMUM NECESSARY TO ENSURE THIS ROAD CLOSURE. THE CONTRACTOR SHALL MAKE ALL CHANGES IN TRAFFIC CONTROL, INCLUDING ALL ADDITIONAL SIGNAGE AND/OR DEVICES, THAT ARE DEEMED NECESSARY BY THE ENGINEER. ADDITIONS AND DELETIONS OF TRAFFIC CONTROL FOR THIS DETOUR SHALL BE CONSIDERED INCLUDED IN THE PAY ITEM “TRAFFIC CONTROL AND PROTECTION”.
10. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE DETOUR IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR, IN A MANNER APPROVED BY THE ENGINEER.
11. ALL DETOUR SIGNING SHALL BE POST MOUNTED IF THE ROAD CLOSURE IS TO EXCEED FOUR CALENDAR DAYS.
12. ALL DETOUR SIGNING EXCEPT REGULATORY SIGNS SHALL HAVE BLACK LEGENDS ON FLUORESCENT ORANGE SHEETING AND STANDARD BLACK BORDERS. THE FLUORESCENT ORANGE REFLECTIVE SHEETING SHALL MEET THE REQUIREMENTS OF SECTION 1091 OF THE STANDARD SPECIFICATIONS. ALL DETOUR SIGNING SHALL BE NEW OR LIKE NEW CONDITION. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE CONDITION OF THE SIGNS.
13. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
14. AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THIS DETOUR SHALL MEET THE REQUIREMENTS FOR TYPE A-LOW INTENSITY FLASHING LIGHTS IN ARTICLE 1106.02 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING THE HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.
15. WHEN REQUIRED THE MINIMUM DIMENSIONS OF THE ORANGE WARNING FLAGS SHOWN IN THESE PLANS ARE 18” X 18”.
16. ALL BARRICADES SHALL HAVE REFLECTORIZED STRIPING ON BOTH SIDES OF THE BARRICADES. THE TYPE III BARRICADES USED AT THE POINT OF CLOSURE TO THRU TRAFFIC SHALL NOT EXCEED EIGHT FEET IN WIDTH EACH, FOR A SINGLE APPROACH LANE.
17. THE "ROAD CLOSED" (R11-2), THE "ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY" (R11-3) AND THE "ROAD CLOSED TO THRU TRAFFIC" (R11-4) SIGNS SHALL BE MOUNTED ABOVE THE TOP OF THE BARRICADE. ALL TYPE III BARRICADES SHALL HAVE TWO AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS SPACED NEAR THE CENTERLINE OF THE SUPPORTS.
18. THE ROAD NAME SIGN SHALL HAVE A BLACK LEGEND ON FLUORESCENT ORANGE REFLECTIVE SHEETING. THE SIGN BLANK SHALL BE A 9" X VARIABLE OR A 12" X VARIABLE WITH DESIGN SERIES C LETTERS. THE CAPITAL LETTERS SHALL BE 6" WITH 5” LOWER CASE.
19. DURING NON-WORKING HOURS AT THE POINT OF ROAD CLOSURE TO ALL TRAFFIC THE CONTRACTOR SHALL PROVIDE A MEANS TO RESTRAIN THE BARRICADES FROM EASY MOVEMENT BY VANDALS. THE CHOSEN METHOD SHALL BE APPROVED BY THE ENGINEER.
20. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES DURING NON-WORKING HOURS. IN ANY EVENT ARTICLE 701.04 OF THE STANDARD SPECIFICATIONS SHALL APPLY.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL DETOUR AND CONSTRUCTION SIGNING, INCLUDING BRUSHING BACK VEGETATION IF DEEMED NECESSARY BY THE ENGINEER.
22. THE FOLLOWING ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD IS APPLICABLE FOR THIS WORK:

    STANDARD 701901

23. THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO HOURS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.

MODEL: Default
FILE NAME: P:\2020\202251\North 1st Street\Cad\02 Design\CADD Sheets\202251-sht-detour NFS.dgn

HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

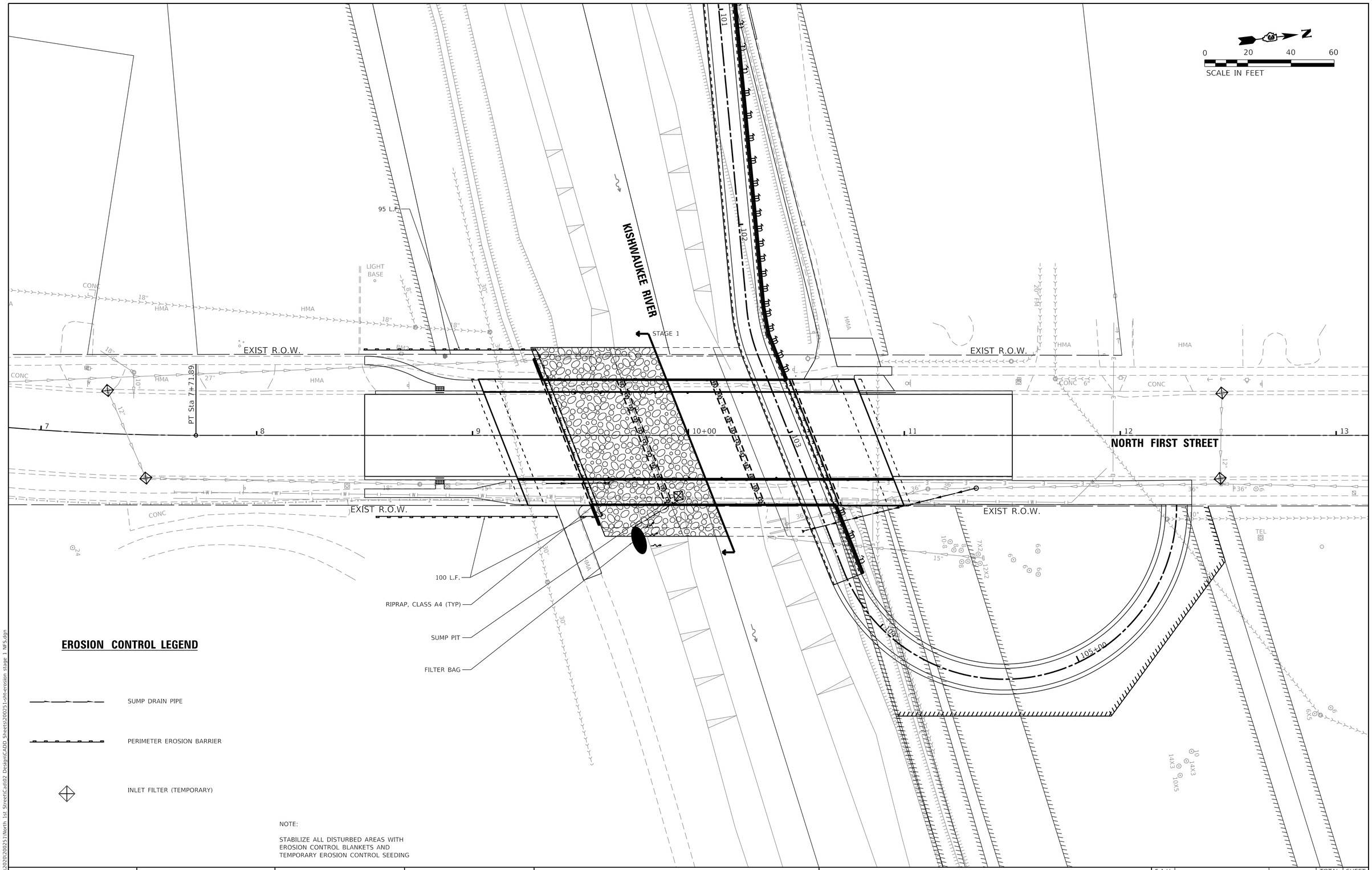
USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH FIRST STREET
DETOUR PLAN

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	69
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		



MODEL: Default
FILE NAME: P:\2020\200251\North 1st Street\Cad\02 Design\CADD Sheets\200251-sht-erosion stage 1 NFS.dgn

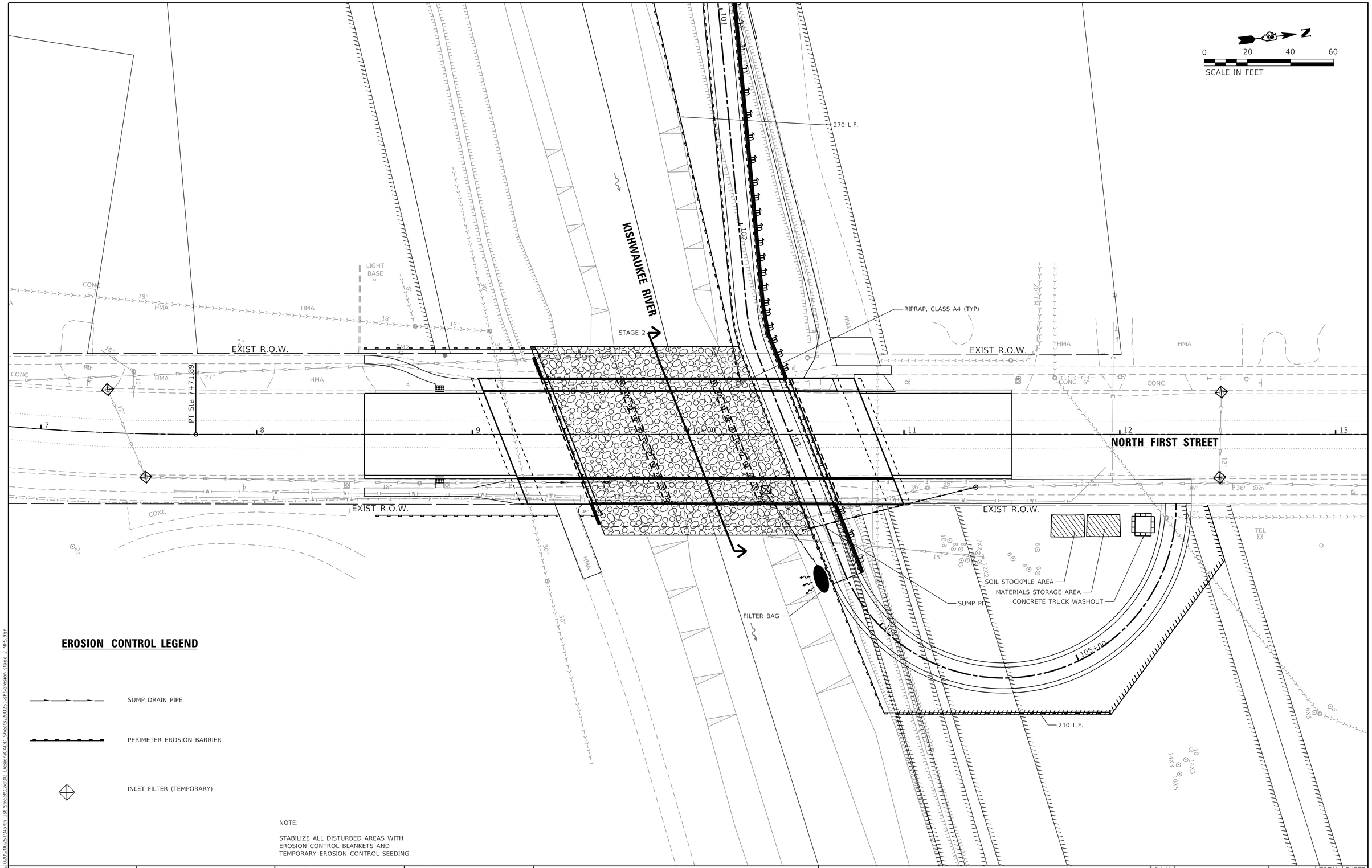
HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	USER NAME = steves	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH FIRST STREET
EROSION SEDIMENT CONTROL PLAN: STAGE 1

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	70
		CONTRACT NO. 87779		
		ILLINOIS	FED. AID PROJECT	



EROSION CONTROL LEGEND

SUMP DRAIN PIPE

PERIMETER EROSION BARRIER

INLET FILTER (TEMPORARY)

NOTE:

STABILIZE ALL DISTURBED AREAS WITH
EROSION CONTROL BLANKETS AND
TEMPORARY EROSION CONTROL SEEDING

MODEL: Default
FILE NAME: P:\2020\200251\North 1st Street\Cad\02 Design\CADD Sheets\200251-sht-erosion stage 2 NFS.dgn

HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH FIRST STREET
EROSION SEDIMENT CONTROL PLAN: STAGE 2

SCALE: 1"=20' | SHEET OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	71
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			

N

0 20 40 60

SCALE IN FEET

PAINT PAVEMENT MARKING LINE
4" SOLID WHITE

PAINT PAVEMENT MARKING
LETTERS AND SYMBOLS, WHITE

PAINT PAVEMENT MARKING LINE
4" SOLID YELLOW
AND 4" DASHED YELLOW

PAINT PAVEMENT MARKING LINE
4" SOLID YELLOW
AND 4" DASHED YELLOW

EXIST R.O.W.

EXIST R.O.W.

EXIST R.O.W.

EXIST R.O.W.

PT Sta 7+71.89

7 8 9+50 9 10+00 11 11+50 12 13

13' 13' 13'

101 102 103 104 105+00a

SOUTH BRANCH

KISHWAUKEE RIVER

NORTH FIRST STREET

MODEL: Default
FILE NAME: P:\2020\20251\North 1st Street\Cad\02 Design\CADD Sheets\202251-sht-comk NFS.dgn

HAMPTON, LENZINI AND RENWICK, INC. 380 SHEPARD DRIVE ELGIN, ILLINOIS 60123 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	USER NAME = steves	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH FIRST STREET
PAVEMENT MARKING PLAN

SCALE: 1"=20' | SHEET OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	72
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			

N

0 20 40 60

SCALE IN FEET

NORTH FIRST STREET

EXIST R.O.W.

EXIST R.O.W.

EXIST R.O.W.

EXIST R.O.W.

CONC

HMA

LIGHT BASE

BM2

PT Sta 7+71.89

SOUTH BRANCH

KISHWAUKEE RIVER

HMA

CONC

TEL

7 8 9 10+00 11 12 13

102 103 104 105

PROPOSED CONTOUR (TYP.)

EXISTING CONTOUR (TYP.)

LEGEND

TOPSOIL, 4"
SEEDING, CLASS 1A
TEMPORARY EROSION CONTROL BLANKET

TOPSOIL, 4"
SEEDING, CLASS 4A
TEMPORARY EROSION CONTROL BLANKET

MODEL: Default
FILE NAME: P:\2020\20251\North 1st Street\Cadd\02 Design\CADD Sheets\20251-sht-landscape NFS.dgn

HAMPTON, LENZINI AND RENWICK, INC.
380 SHEPARD DRIVE
ELGIN, ILLINOIS 60123
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

USER NAME = steves	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/13/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH FIRST STREET
LANDSCAPE PLAN

SCALE: 1"=20' | SHEET OF SHEETS | STA. TO STA.

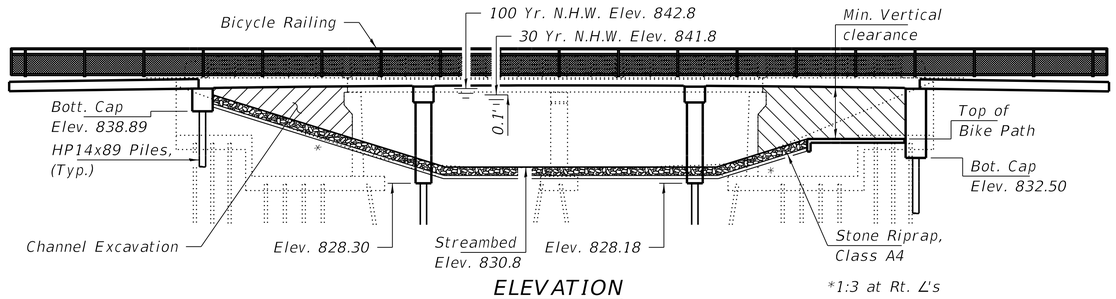
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5336	18-00193-00-BR	DeKALB	133	73
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

BENCHMARK: RR Spike in PP, Sta. 8+67, 38' Lt., Elev. 844.27

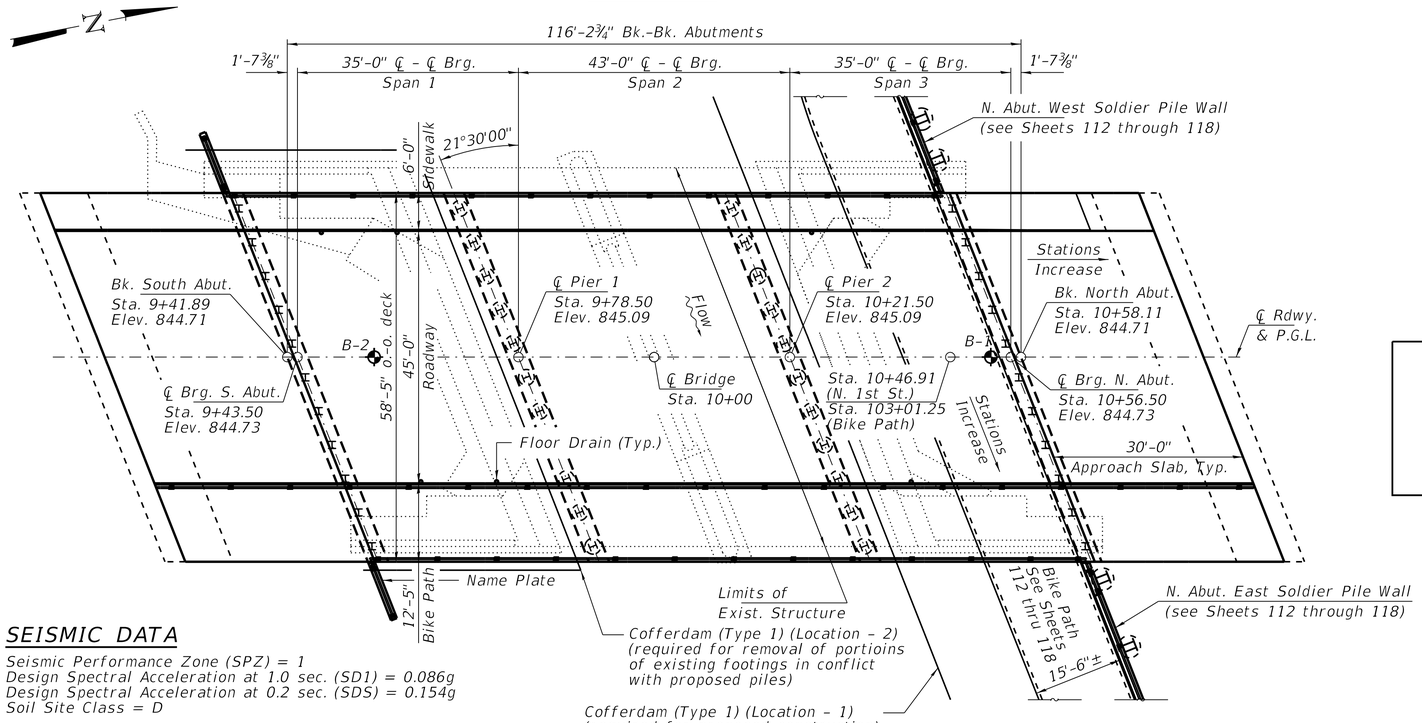
EXISTING STRUCTURE NO. 019-6000: Sta. 10+00 – Two span reinforced concrete slab bridge on closed concrete abutments and solid wall pier.
66.9' bk.-bk. abuts., 64.5' o.-o. deck.

Structure closed to traffic during construction.

No Salvage



ELEVATION



PLAN

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.086g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.154g
Soil Site Class = D

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

LOADING HL-93

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

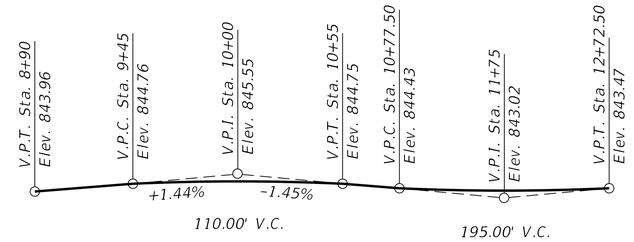
DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi (Superstructure)
f'c = 3,500 psi (Substructure)
fy = 60,000 psi (Reinf.)
fy = 50,000 psi (H-Piles) (M270 Gr. 50)

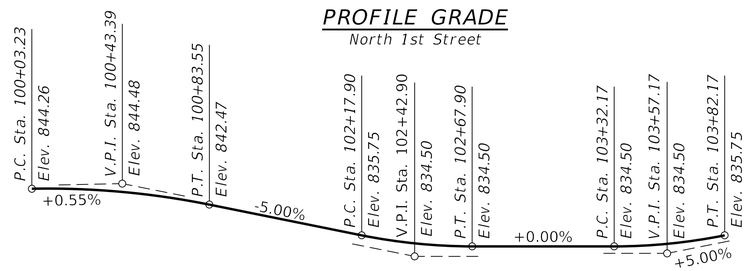
DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elevations (ft.)				Item 113
	S. Abut.	Pier 1	Pier 2	N. Abut.	
Q100	838.9	825.1	825.1	832.5	5
Q200		825.7	825.7		
Design		825.1	825.1		
Check		825.1	825.1		



PROFILE GRADE

North 1st Street



PROFILE GRADE

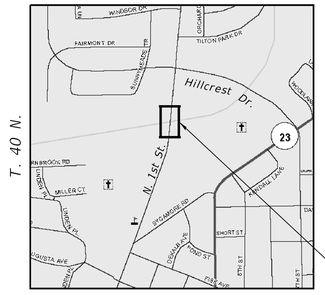
Along Centerline of Bike Path (N.T.S.)

S. BR. OF KISHWAUKEE RIVER
BUILT 202_ BY
CITY OF DEKALB
SEC. 18-00193-00-BR
LUCINDA AVENUE
STR. NO. 019-6109
LOADING HL-93

NAME PLATE

See Std. 515001

R. 4 E., 3rd. P.M.



LOCATION SKETCH

Proposed Bridge SN 019-6108

WATERWAY INFORMATION

Drainage Area = 82.1 Sq. Mi.
Ex. Low Grade Elev. 843.0 @ Sta. 10+75 (Levee)
Prop. Low Grade Elev. 843.0 @ Sta. 10+75 (Levee)

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Ten-Year	10	2080	540	720	840.6	0.2	0.1	840.8	840.7
Design	30	2710	600	830	841.8	0.2	0.1	842.0	841.9
Base	100	3400	660	940	842.8	0.3	0.1	843.1	842.9
Scour Check	200	3810	660	940	843.4	0.0	0.0	843.4	843.4
Max. Calc.	500	4360	660	940	844.0	0.0	0.0	844.0	844.0

10 Year Velocity through Existing Bridge = 3.9 fps
10 Year Velocity through Proposed Bridge = 2.9 fps

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

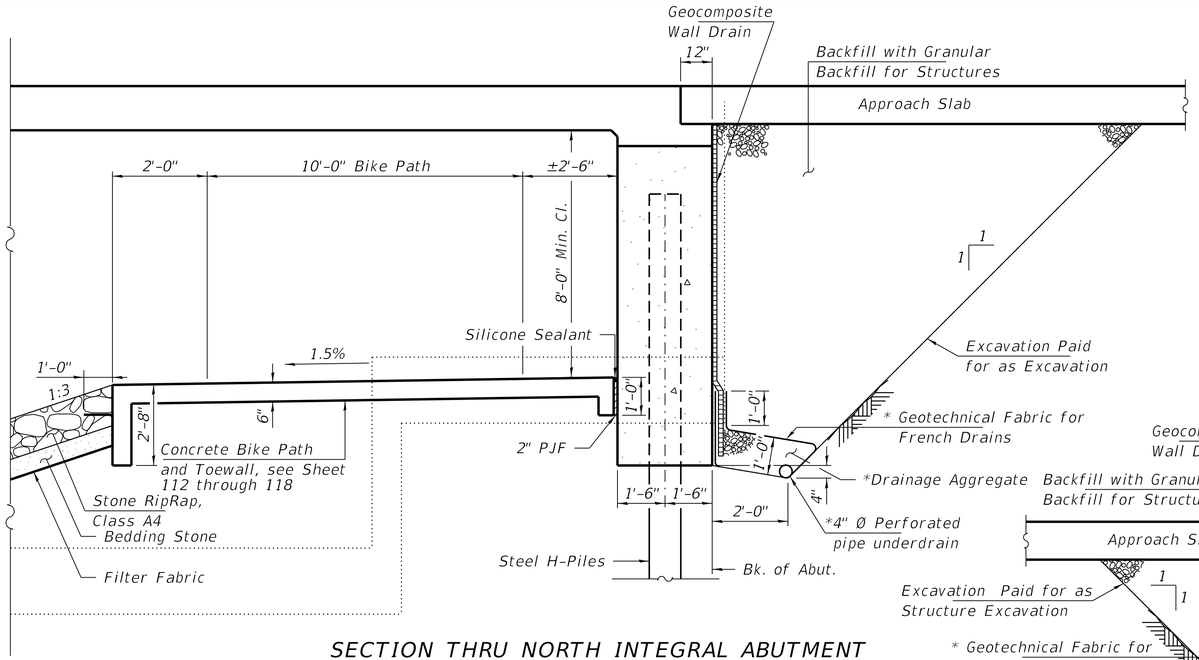
04/08/2022
ILLINOIS STRUCTURAL NO. 081-008439

LICENSED STRUCTURAL ENGINEER
IAN P. NILAUSEN
081-008439
STATE OF ILLINOIS
Expires 11-30-2022

GENERAL PLAN & ELEVATION
NORTH FIRST STREET OVER
SOUTH BRANCH KISHWAUKEE RIVER
SECTION 18-00193-00-BR
DEKALB COUNTY
STATION 10+00
STRUCTURE NO. 019-6108

FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS CITY OF DEKALB
HAMPTON, LENZINI AND RENWICK, INC. ELGIN . SPRINGFIELD CRYSTAL LAKE . MT CARMEL		CHECKED - S.M.S	REVISED -	GENERAL PLAN AND ELEVATION N. 1ST ST. - STRUCTURE NO. 019-6108
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	DRAWN - S.S.	REVISED -	SHEET NO. S1 OF S38 SHEETS
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -	

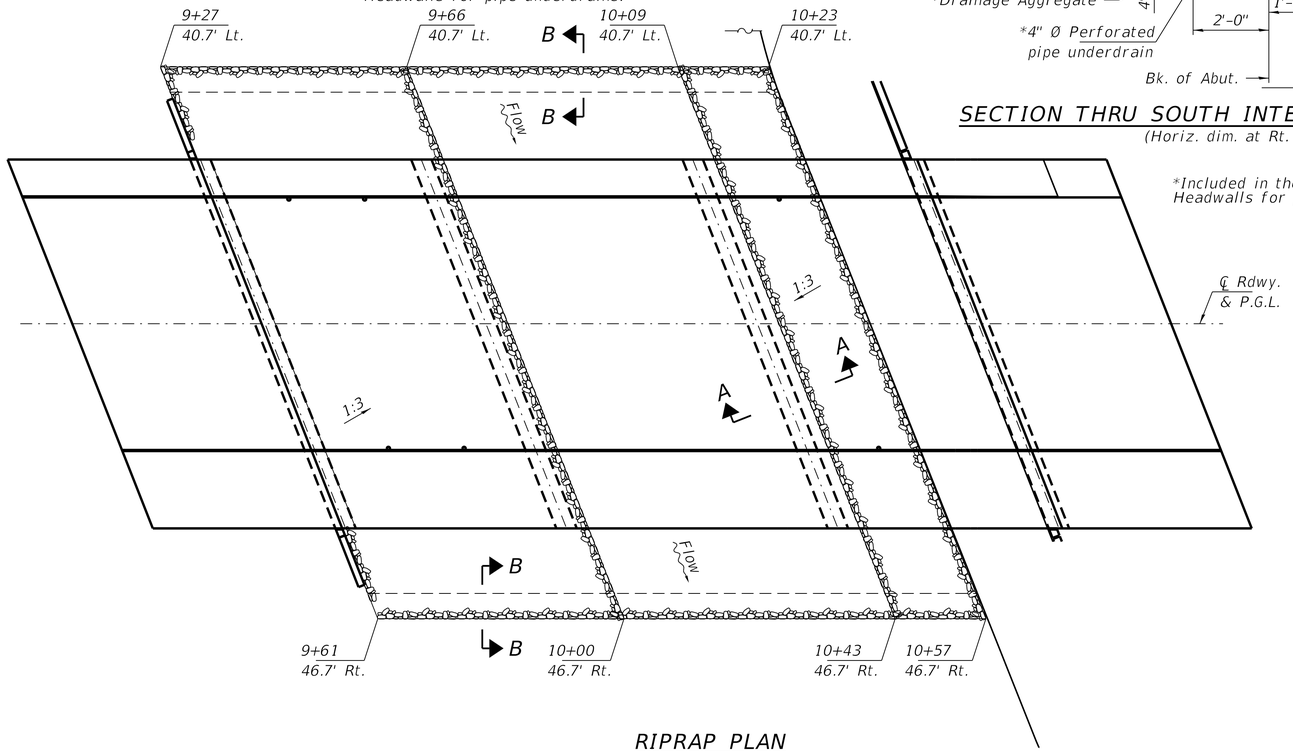
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	74
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		



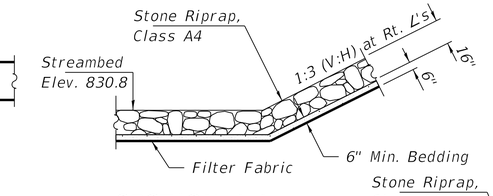
SECTION THRU NORTH INTEGRAL ABUTMENT

(Horiz. dim. at Rt. ∠s)

*Included in the cost of Pipe Underdrains for Structures, 4".
Headwalls for pipe underdrains.

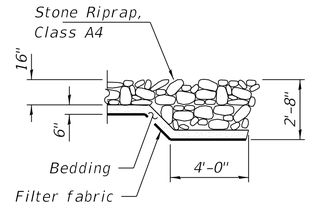


RIPRAP PLAN

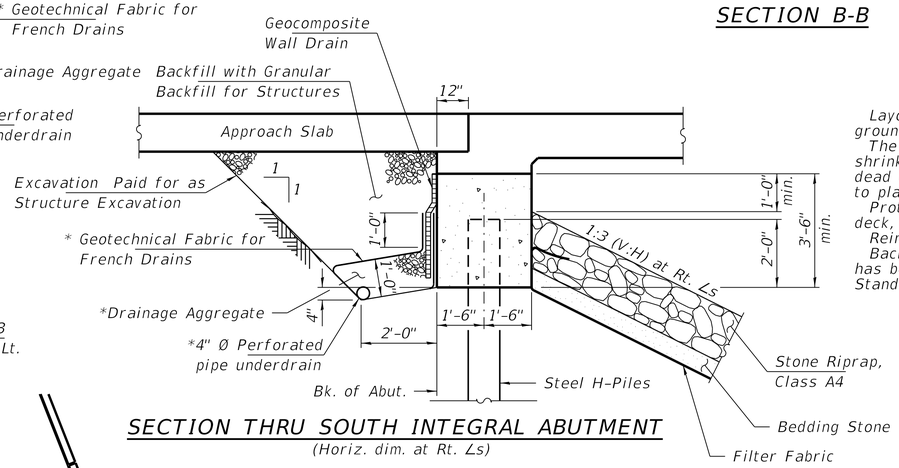


SECTION A-A

Note: See Special Provisions for Stone Riprap, Class A4.



SECTION B-B



SECTION THRU SOUTH INTEGRAL ABUTMENT

(Horiz. dim. at Rt. ∠s)

*Included in the cost of Pipe Underdrains for Structures, 4".
Headwalls for pipe underdrains.

INDEX OF SHEETS

S1. General Plan & Elevation
S2. General Details & Notes
S3. Top of Slab Elevations
S4. Top of South Approach Slab Elevations
S5. Top of South Approach Slab Sidewalks Elevations
S6. Top of North Approach Slab Elevations
S7. Top of North Approach Slab Sidewalks Elevations
S8. Superstructure
S9. Superstructure Cross Sections
S10. Superstructure Sidewalks & Railings Details
S11. Superstructure Details
S12. South Approach Slab
S13. South Approach Slab Sidewalk Details
S14. South Approach Slab Details
S15. North Approach Slab
S16. North Approach Slab Sidewalk Details
S17. North Approach Slab Details
S18. Bicycle Railing Details
S19. Bicycle Railing Layout
S20. South Abutment
S21. North Abutment
S22. Pier 1 (South Pier)
S23. Pier 2 (North Pier)
S24. HP Pile Details
S25–S27. Borings
S28–S38. Existing Plans

GENERAL NOTES

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

The Contractor shall make allowance for the deflection of forms, shrinkage, and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.

Protective Coat shall be applied to the top surface of the concrete deck, and the front and top of the sidewalks.

Reinforcement bars designated (E) shall be epoxy coated.

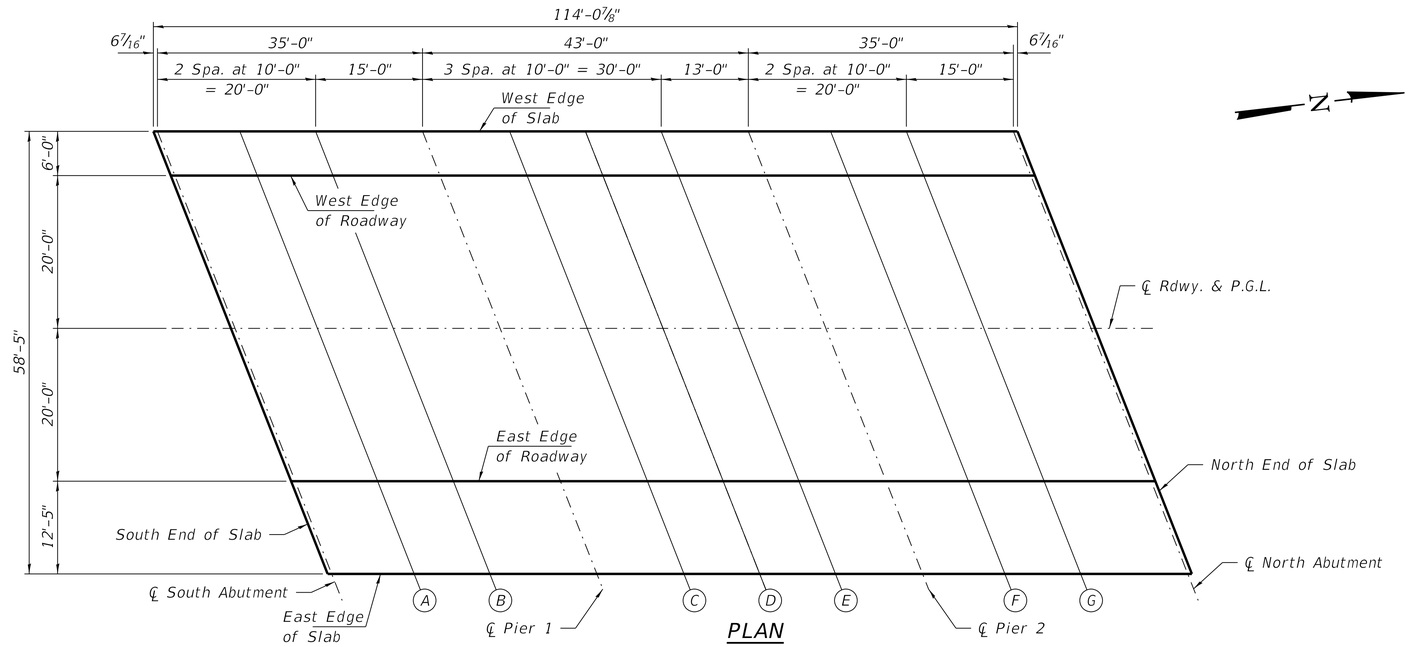
Backfill shall be placed behind the abutment after the superstructure has been poured and falsework removed. See Article 502.10 of the Standard Specifications.

BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	OTHER	TOTAL
	Channel Excavation	Cu. Yd.			817	817
*	Stone Riprap, Class A4	Sq. Yd.			932	932
	Filter Fabric	Sq. Yd.			932	932
*	Removal of Existing Structures	Each			1	1
	Structure Excavation	Cu. Yd.		417		417
	Cofferdam (Type 1) (Location – 1)	Each			1	1
	Cofferdam (Type 1) (Location – 2)	Each			1	1
	Floor Drains	Each	6			6
	Concrete Structures	Cu. Yd.		181.1		181.1
	Concrete Superstructure	Cu. Yd.	432.2			432.2
	Bridge Deck Grooving	Sq. Yd.	773			773
	Concrete Encasement	Cu. Yd.		46.2		46.2
*	Form Liner Textured Surface	Sq. Ft.		417		417
*	Protective Coat	Sq. Yd.	1,638	71		1,709
	Concrete Superstructure (Approach Slab)	Cu. Yd.	196.1			196.1
	Reinforcement Bars, Epoxy Coated	Pound	236,570	25,940		262,510
	Bicycle Railing	Foot	401	19		420
	Furnishing Steel Piles HP14x89	Foot		1,690		1,690
	Driving Piles	Foot		1,690		1,690
	Test Pile Steel HP14x89	Each		4		4
	Pile Shoes	Each		22		22
	Name Plates	Each		1		1
	Granular Backfill for Structures	Cu. Yd.		310		310
	Geocomposite Wall Drain	Sq. Yd.		118		118
	Pipe Underdrains for Structures, 4"	Foot		164		164

*See Special Provisions

FILE NAME = 200251-sht-bridge NFS.dgn
USER NAME = steves
PLOT SCALE =
PLOT DATE = 5/13/2022
DESIGNED - I.P.N.
CHECKED - S.M.S
DRAWN - S.S.
CHECKED - I.P.N.
REVISED -
REVISED -
REVISED -
REVISED -
HAMPTON, LENZINI AND RENWICK, INC.
ELGIN . SPRINGFIELD
CRYSTAL LAKE . MT CARMEL
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959
STATE OF ILLINOIS
CITY OF DEKALB
GENERAL DETAILS & NOTES
N. 1ST ST. - STRUCTURE NO. 019-6108
SHEET NO. S2 OF S38 SHEETS
F.A.U. 5352 | SECTION 18-00193-00-BR | COUNTY DEKALB | TOTAL SHEETS 133 | SHEET NO. 75
CONTRACT NO. 87779
ILLINOIS | FED. AID PROJECT



PLAN

WEST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W End Dk	9+32.72	-26.00'	844.37	844.37
℄ Brg W Abt	9+33.26	-26.00'	844.38	844.38
A	9+43.26	-26.00'	844.52	844.57
B	9+53.26	-26.00'	844.66	844.71
℄ Brg Pier 1	9+68.26	-26.00'	844.81	844.81
C	9+78.26	-26.00'	844.88	844.91
D	9+88.26	-26.00'	844.92	844.99
E	9+98.26	-26.00'	844.94	844.99
℄ Brg Pier 2	10+11.26	-26.00'	844.93	844.93
F	10+21.26	-26.00'	844.88	844.92
G	10+31.26	-26.00'	844.81	844.87
℄ Brg E Abt	10+46.26	-26.00'	844.66	844.66
E End Dk	10+46.80	-26.00'	844.65	844.65

WEST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W End Dk	9+35.08	-20.00'	844.31	844.31
℄ Brg W Abt	9+35.62	-20.00'	844.32	844.32
A	9+45.62	-20.00'	844.46	844.52
B	9+55.62	-20.00'	844.59	844.65
℄ Brg Pier 1	9+70.62	-20.00'	844.74	844.74
C	9+80.62	-20.00'	844.80	844.84
D	9+90.62	-20.00'	844.84	844.91
E	10+00.62	-20.00'	844.85	844.90
℄ Brg Pier 2	10+13.62	-20.00'	844.83	844.83
F	10+23.62	-20.00'	844.78	844.81
G	10+33.62	-20.00'	844.70	844.76
℄ Brg E Abt	10+48.62	-20.00'	844.54	844.54
E End Dk	10+49.16	-20.00'	844.53	844.53

℄ STRUCTURE, ROADWAY & P.G.L.

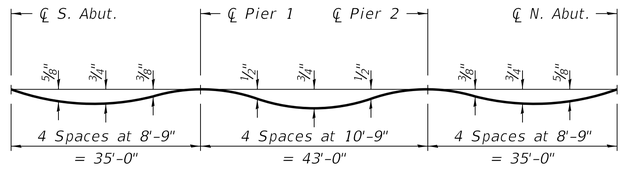
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W End Dk	9+42.96	0.00	844.73	844.73
℄ Brg W Abt	9+43.50	0.00	844.73	844.73
A	9+53.50	0.00	844.87	844.92
B	9+63.50	0.00	844.98	845.03
℄ Brg Pier 1	9+78.50	0.00	845.09	845.09
C	9+88.50	0.00	845.14	845.17
D	9+98.50	0.00	845.15	845.22
E	10+08.50	0.00	845.14	845.19
℄ Brg Pier 2	10+21.50	0.00	845.09	845.09
F	10+31.50	0.00	845.02	845.05
G	10+41.50	0.00	844.93	844.99
℄ Brg E Abt	10+56.50	0.00	844.73	844.73
E End Dk	10+57.04	0.00	844.73	844.73

EAST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W End Dk	9+50.84	20.00'	844.54	844.54
℄ Brg W Abt	9+51.38	20.00'	844.54	844.54
A	9+61.38	20.00'	844.66	844.71
B	9+71.38	20.00'	844.75	844.80
℄ Brg Pier 1	9+86.38	20.00'	844.83	844.83
C	9+96.38	20.00'	844.85	844.88
D	10+06.38	20.00'	844.85	844.91
E	10+16.38	20.00'	844.82	844.86
℄ Brg Pier 2	10+29.38	20.00'	844.74	844.74
F	10+39.38	20.00'	844.65	844.68
G	10+49.38	20.00'	844.53	844.59
℄ Brg E Abt	10+64.38	20.00'	844.32	844.32
E End Dk	10+64.92	20.00'	844.31	844.31

EAST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W End Dk	9+55.73	32.42'	844.78	844.78
℄ Brg W Abt	9+56.27	32.42'	844.79	844.79
A	9+66.27	32.42'	844.89	844.94
B	9+76.27	32.42'	844.97	845.02
℄ Brg Pier 1	9+91.27	32.42'	845.03	845.03
C	10+01.27	32.42'	845.04	845.07
D	10+11.27	32.42'	845.02	845.09
E	10+21.27	32.42'	844.98	845.03
℄ Brg Pier 2	10+34.27	32.42'	844.88	844.88
F	10+44.27	32.42'	844.78	844.81
G	10+54.27	32.42'	844.65	844.71
℄ Brg E Abt	10+69.27	32.42'	844.43	844.43
E End Dk	10+69.81	32.42'	844.43	844.43



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections.

FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
		CHECKED - S.M.S	REVISED -
	PLOT SCALE =	DRAWN - S.S.	REVISED -
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
ELGIN . SPRINGFIELD
CRYSTAL LAKE . MT CARMEL
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

STATE OF ILLINOIS
CITY OF DEKALB

TOP OF SLAB ELEVATIONS
N. 1ST ST. - STRUCTURE NO. 019-6108
SHEET NO. S3 OF S38 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	76
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

WEST EDGE OF SLAB

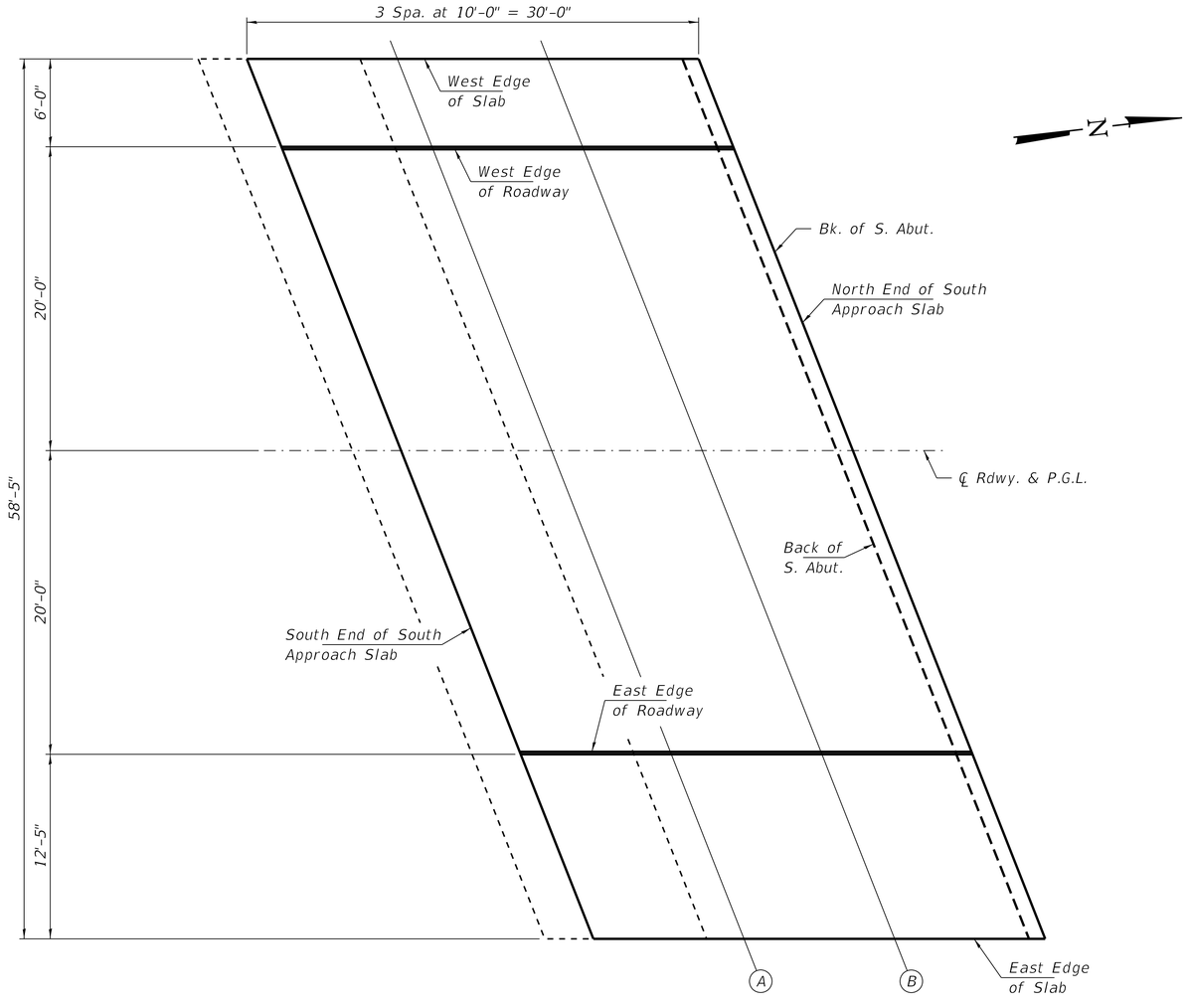
Location	Station	Offset	Theoretical Grade Elevations
South End of S Appr. Slab	9+02.72	-26.00	843.94
A	9+12.72	-26.00	844.08
B	9+22.72	-26.00	844.22
North End of S Appr. Slab	9+32.72	-26.00	844.37

WEST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
South End of S Appr. Slab	9+05.08	-20.00	843.88
A	9+15.08	-20.00	844.02
B	9+25.08	-20.00	844.17
North End of S Appr. Slab	9+35.08	-20.00	844.31

℄ ROADWAY & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
South End of S Appr. Slab	9+12.96	0.00	844.29
A	9+22.96	0.00	844.44
B	9+32.96	0.00	844.58
North End of S Appr. Slab	9+42.96	0.00	844.73



PLAN

EAST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
South End of S Appr. Slab	9+20.84	20.00	844.11
A	9+30.84	20.00	844.25
B	9+40.84	20.00	844.40
North End of S Appr. Slab	9+50.84	20.00	844.54

EAST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
South End of S Appr. Slab	9+25.73	32.42	844.36
A	9+35.73	32.42	844.51
B	9+45.73	32.42	844.65
North End of S Appr. Slab	9+55.73	32.42	844.78

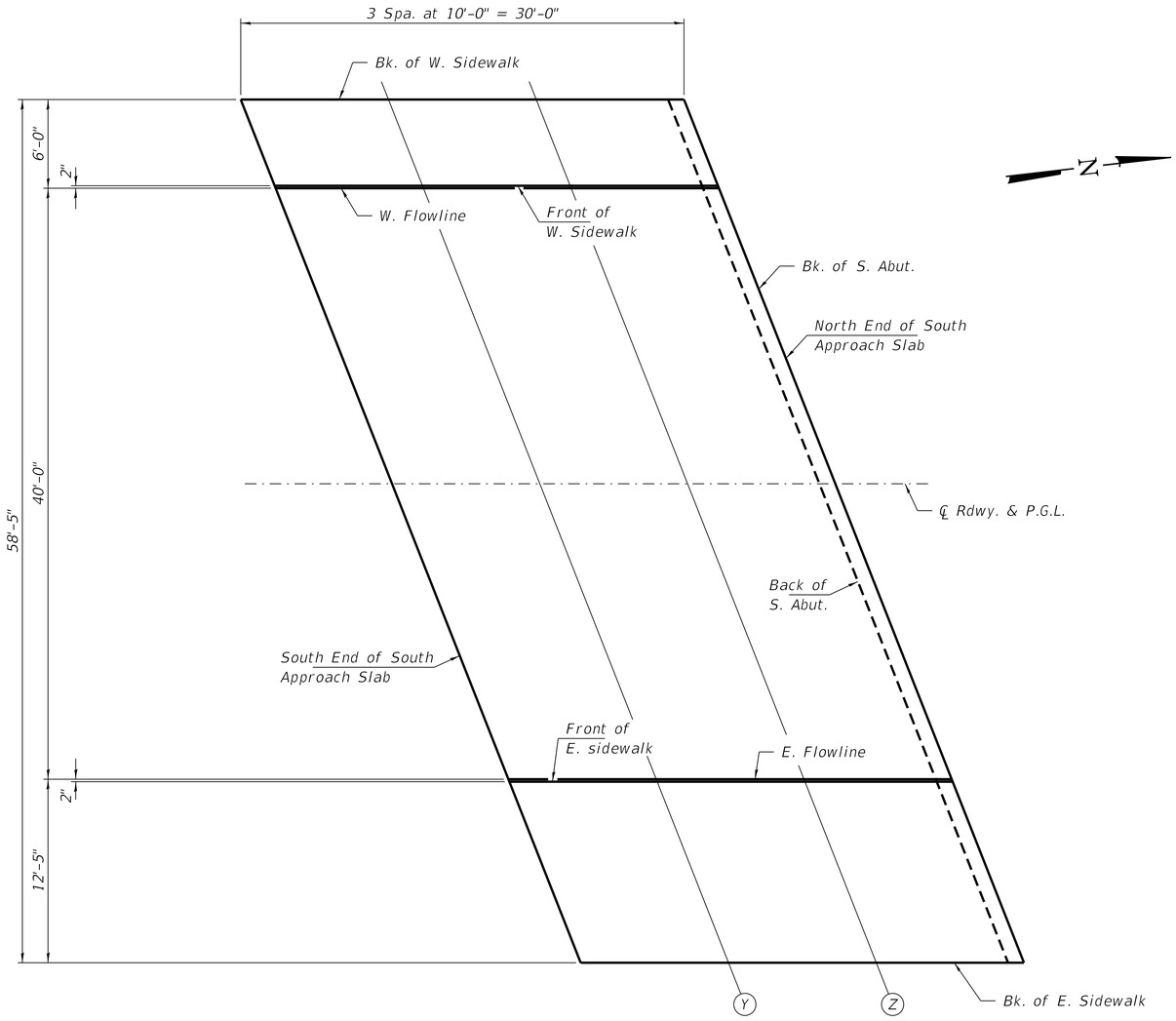
Note: Elevations for Top of South Approach Slab only, See Structural Sheet S6 of SX for Top of South Approach Slab Sidewalk Elevations.

FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. ELGIN . SPRINGFIELD CRYSTAL LAKE . MT CARMEL ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.M.S	REVISED -
	PLOT SCALE =	DRAWN - S.S.	REVISED -
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -

STATE OF ILLINOIS
CITY OF DEKALB

TOP OF SOUTH APPROACH SLAB ELEVATIONS
N. 1ST ST. - STRUCTURE NO. 019-6108
SHEET NO. S4 OF S38 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	77
		CONTRACT NO. 87779		
		ILLINOIS	FED. AID PROJECT	



PLAN

BACK OF WEST SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
South End of S Appr. Slab	9+02.72	-26.00	844.69
Y	9+12.72	-26.00	844.83
Z	9+22.72	-26.00	844.97
North End of S Appr. Slab	9+32.72	-26.00	845.12

FRONT OF WEST SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
South End of S Appr. Slab	9+05.02	-20.17	844.63
Y	9+15.02	-20.17	844.78
Z	9+25.02	-20.17	844.92
North End of S Appr. Slab	9+35.02	-20.17	845.06

FRONT OF EAST SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
South End of S Appr. Slab	9+20.91	20.17	844.86
Y	9+30.91	20.17	845.01
Z	9+40.91	20.17	845.15
North End of S Appr. Slab	9+50.91	20.17	845.29

BACK OF EAST SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
South End of S Appr. Slab	9+25.73	32.42	845.11
Y	9+35.73	32.42	845.26
Z	9+45.73	32.42	845.40
North End of S Appr. Slab	9+55.73	32.42	845.53

Note: Elevations for Top of South Approach Slab Sidewalk only, see Structural Sheet S4 of SX for Top of South Approach Slab Elevations.

FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.M.S	REVISED -
ELGIN · SPRINGFIELD CRYSTAL LAKE · MT CARMEL	PLOT SCALE =	DRAWN - S.S.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -

STATE OF ILLINOIS
CITY OF DEKALB

TOP OF SOUTH APPROACH SLAB SIDEWALK ELEVATIONS
N. 1ST ST. - STRUCTURE NO. 019-6108
SHEET NO. S5 OF S38 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	78
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

WEST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
South End of N Appr. Slab	10+46.80	-26.00	844.65
A	10+56.80	-26.00	844.52
B	10+66.80	-26.00	844.37
North End of N Appr. Slab	10+76.80	-26.00	844.23

WEST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
South End of N Appr. Slab	10+49.16	-20.00	844.53
A	10+59.16	-20.00	844.39
B	10+69.16	-20.00	844.25
North End of N Appr. Slab	10+79.16	-20.00	844.11

℄ ROADWAY & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
South End of N Appr. Slab	10+57.04	0.00	844.73
A	10+67.04	0.00	844.58
B	10+77.04	0.00	844.44
North End of N Appr. Slab	10+87.04	0.00	844.30

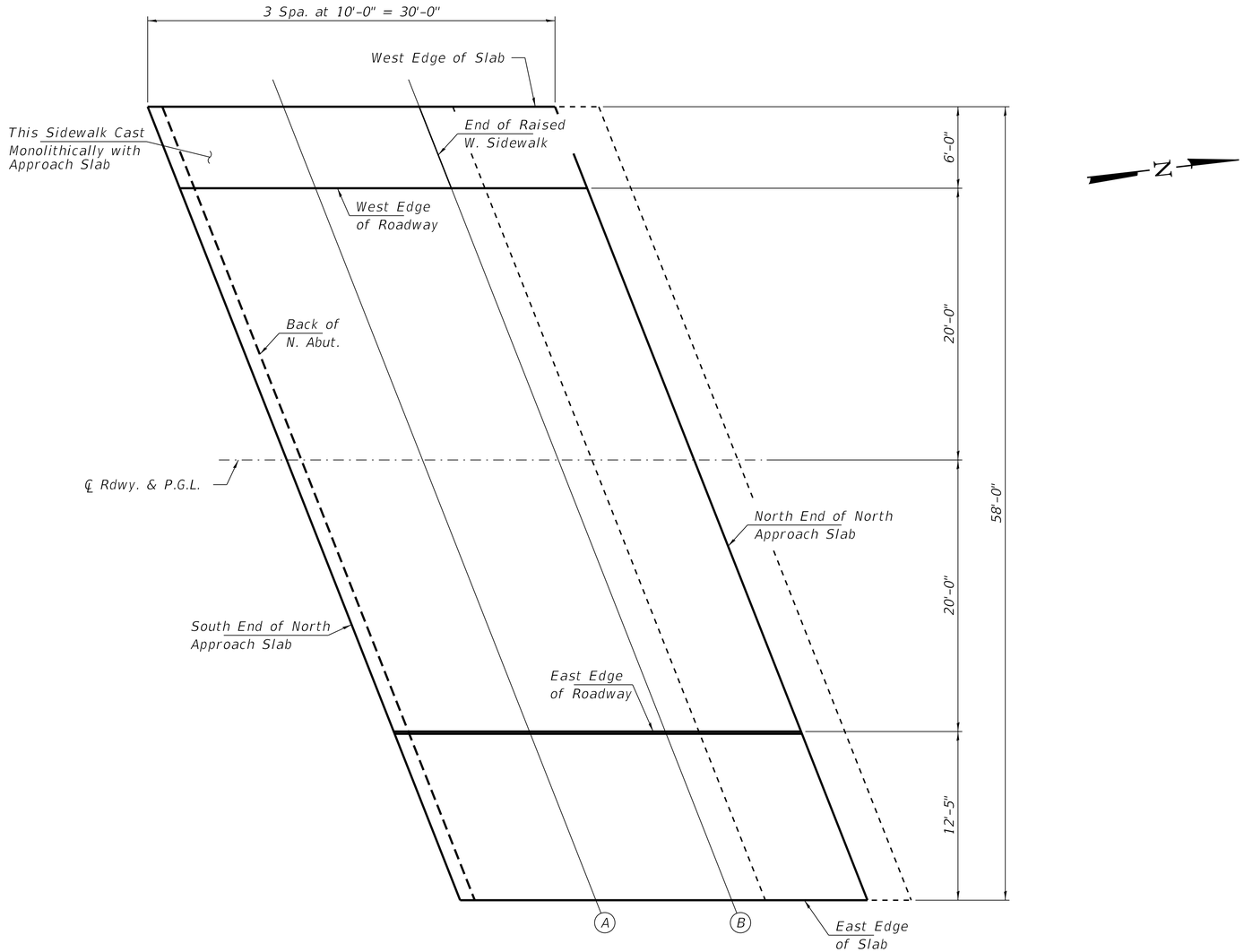
EAST EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
South End of N Appr. Slab	10+64.92	20.00	844.31
A	10+74.92	20.00	844.17
B	10+84.92	20.00	844.03
North End of N Appr. Slab	10+94.92	20.00	843.89

EAST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
South End of N Appr. Slab	10+69.81	32.42'	844.43
A	10+79.81	32.42'	844.28
B	10+89.81	32.42'	844.15
North End of N Appr. Slab	10+99.81	32.42'	844.02

Note: Elevations for Top of North Approach Slab only, see Structural Sheet S8 of SX for Top of North Approach Slab Sidewalk Elevations.



PLAN

FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS CITY OF DEKALB	TOP OF NORTH APPROACH SLAB ELEVATIONS N. 1ST ST. - STRUCTURE NO. 019-6108
HAMPTON, LENZINI AND RENWICK, INC. ELGIN . SPRINGFIELD CRYSTAL LAKE . MT CARMEL ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.M.S	REVISED -		SHEET NO. S6 OF S38 SHEETS
	PLOT SCALE =	DRAWN - S.S.	REVISED -		
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -		

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	79
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

BACK OF WEST SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
South End of N Appr. Slab	10+46.80	-26.00	845.40
Y	10+56.80	-26.00	845.02
Z	10+66.80	-26.00	844.37

FRONT OF WEST SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
South End of N Appr. Slab	10+49.09	-20.17	845.29
Y	10+59.13	-20.08	844.90
Z	10+69.13	-20.08	844.25

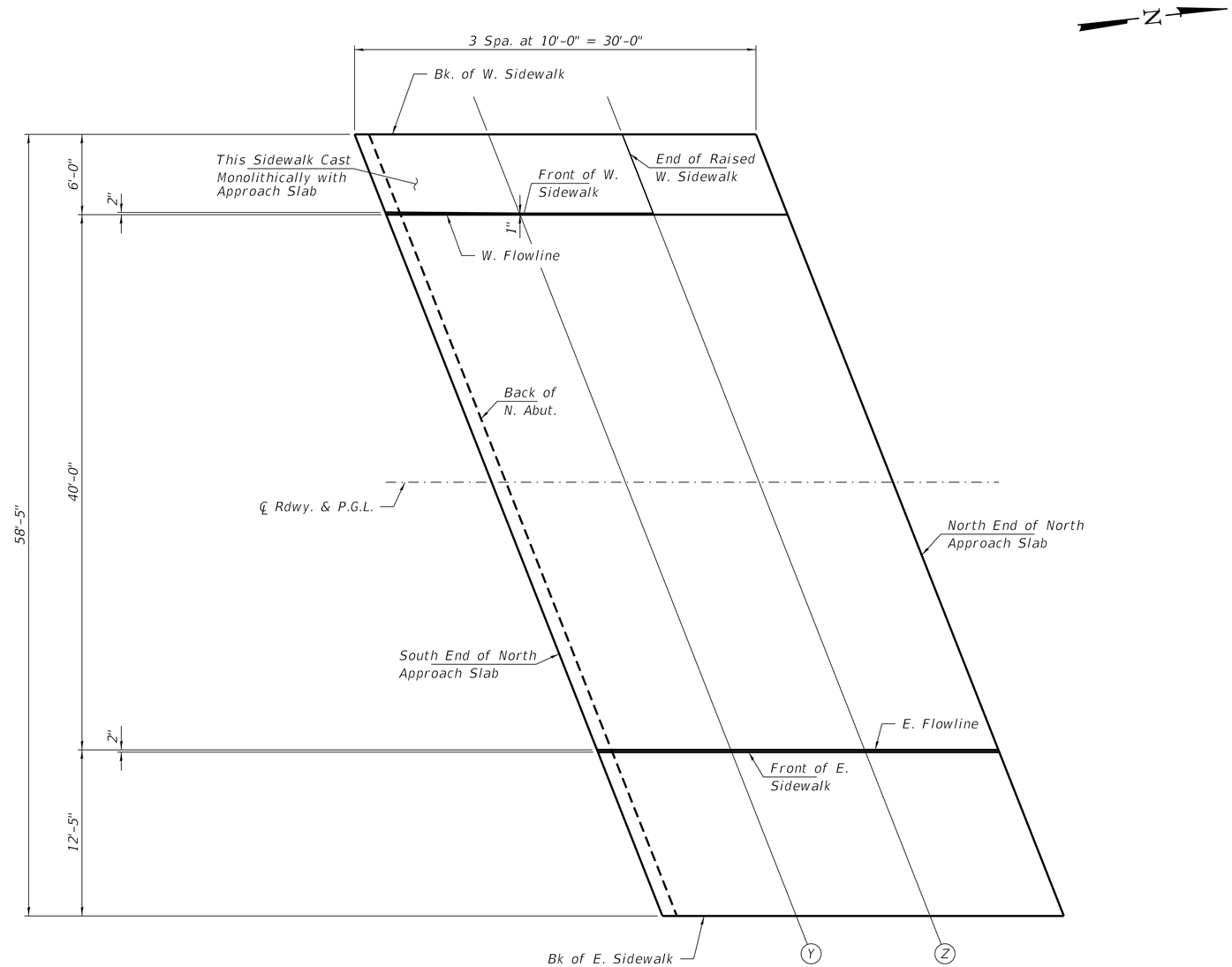
FRONT OF EAST SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations
South End of N Appr. Slab	10+64.98	20.17	845.06
Y	10+74.98	20.17	844.92
Z	10+84.98	20.17	844.78
North End of N Appr. Slab	10+94.98	20.17	844.64

BACK OF EAST SIDEWALK

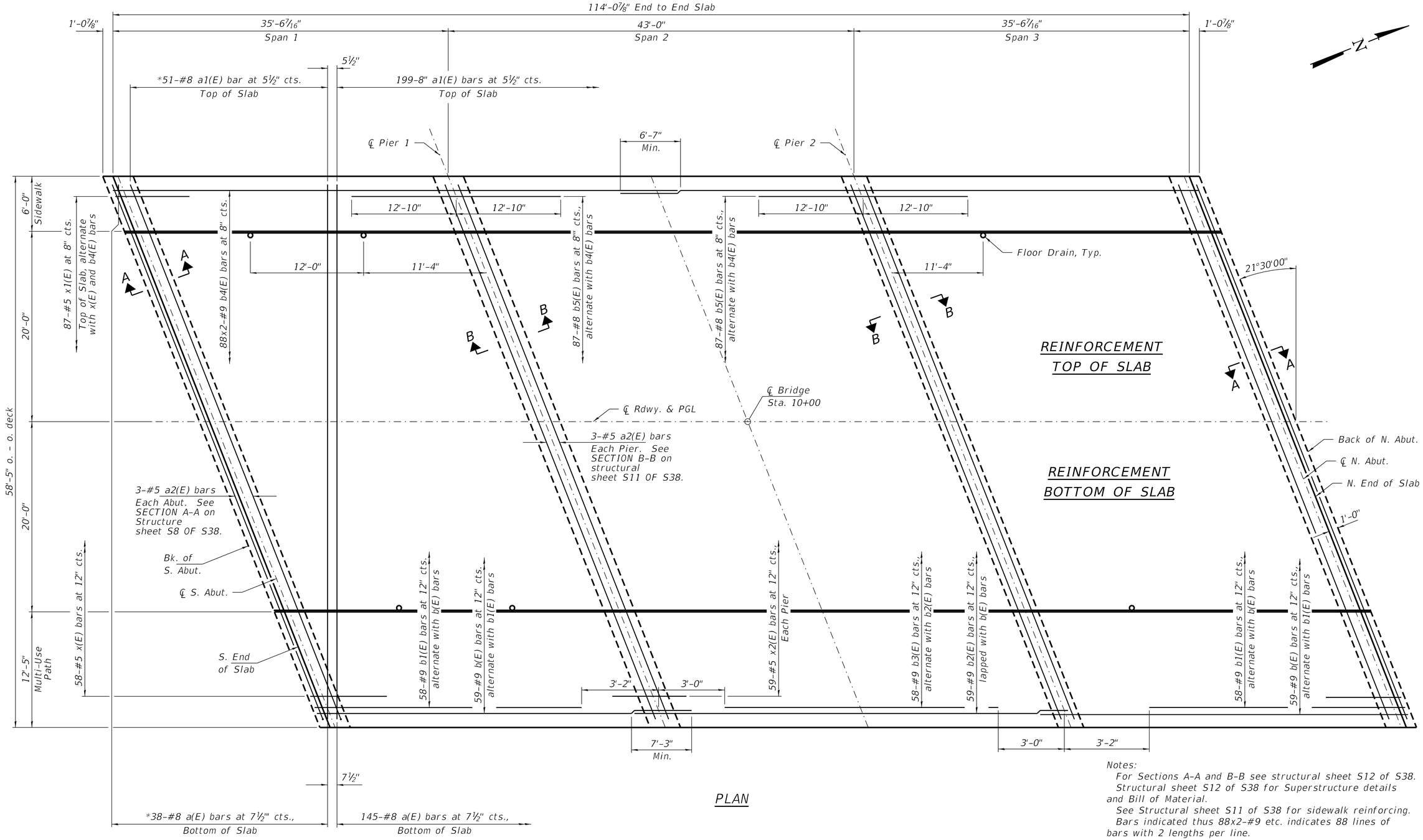
Location	Station	Offset	Theoretical Grade Elevations
South End of N Appr. Slab	10+69.81	32.42	845.18
Y	10+79.81	32.42	845.03
Z	10+89.81	32.42	844.90
North End of N Appr. Slab	10+99.81	32.42	844.77

Note: Elevations for Top of North Approach Slab Sidewalks only, see Structural sheet S6 OF SX for Top of North Approach Slab Elevations.



PLAN

FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS CITY OF DEKALB	TOP OF NORTH APPROACH SLAB SIDEWALK ELEVATIONS N. 1ST ST. - STRUCTURE NO. 019-6108	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. ELGIN . SPRINGFIELD CRYSTAL LAKE . MT CARMEL ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.M.S	REVISED -			5352	18-00193-00-BR	DEKALB	133	80
	PLOT SCALE =	DRAWN - S.S.	REVISED -						CONTRACT NO. 87779	
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -		SHEET NO. S7 OF S38 SHEETS			ILLINOIS	FED. AID PROJECT	



Notes:
For Sections A-A and B-B see structural sheet S12 of S38.
Structural sheet S12 of S38 for Superstructure details and Bill of Material.
See Structural sheet S11 of S38 for sidewalk reinforcing.
Bars indicated thus 88x2-#9 etc. indicates 88 lines of bars with 2 lengths per line.

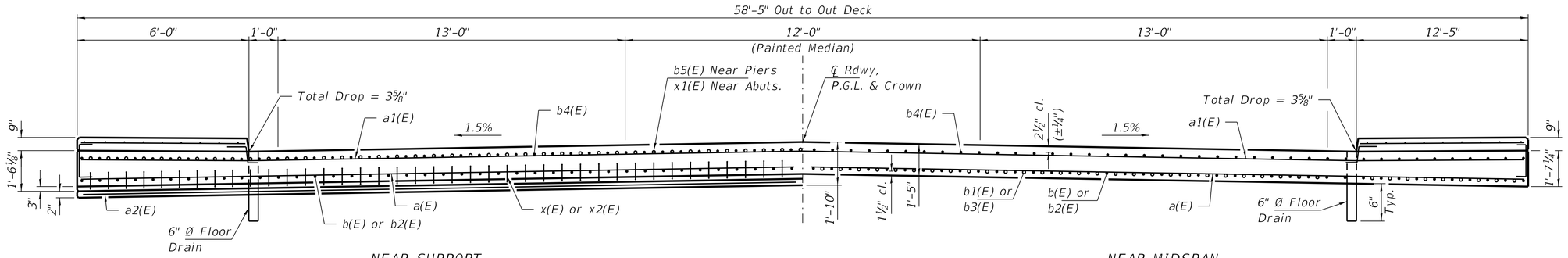
* Order a(E) and a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. ELGIN · SPRINGFIELD CRYSTAL LAKE · MT CARMEL		CHECKED - S.M.S	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	DRAWN - S.S.	REVISED -
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -

STATE OF ILLINOIS
CITY OF DEKALB

SUPERSTRUCTURE PLAN
N. 1ST ST. - STRUCTURE NO. 019-6108
SHEET NO. S8 OF S38 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	81
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

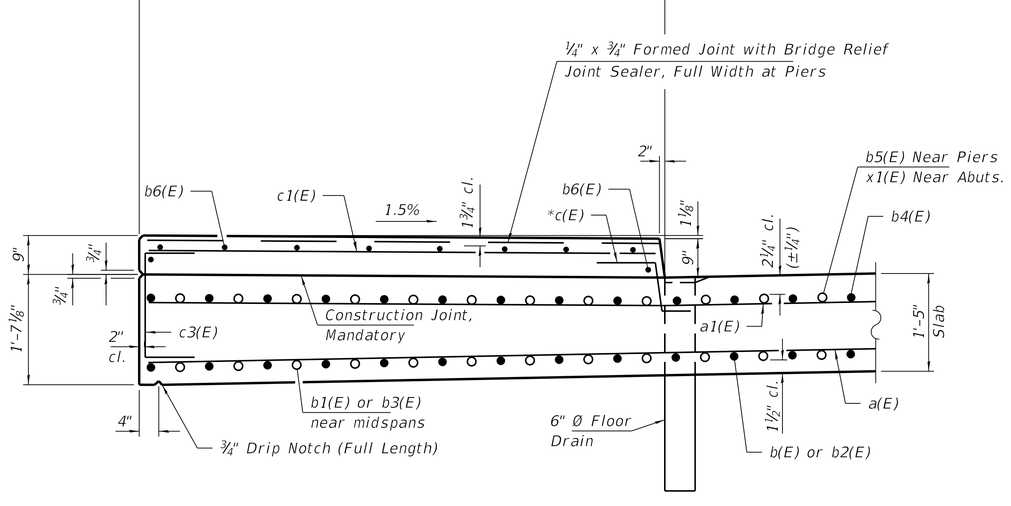


NEAR SUPPORT

SECTION THRU DECK

(Looking North)

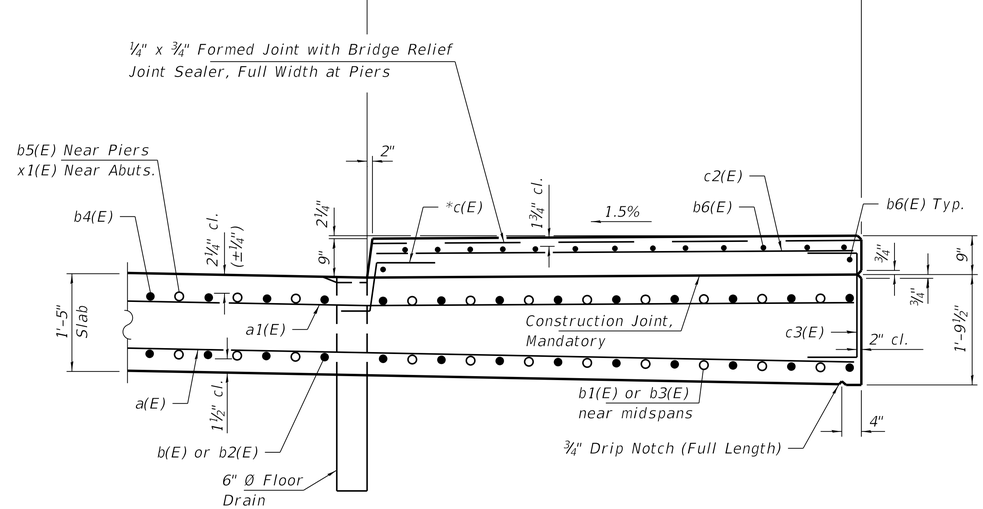
NEAR MIDSPAN



SECTION THRU WEST SIDEWALK

(Looking North)

*In lieu of bottom leg, c(E) bars may be drilled and set according to Article 584 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of drilled hole shall not exceed 6". Contractor shall take all necessary precautions to prevent drilled hole interference with deck reinforcement bars. Locate longitudinal bars to miss drilled locations. Locate drilled holes to miss transverse bars in deck.

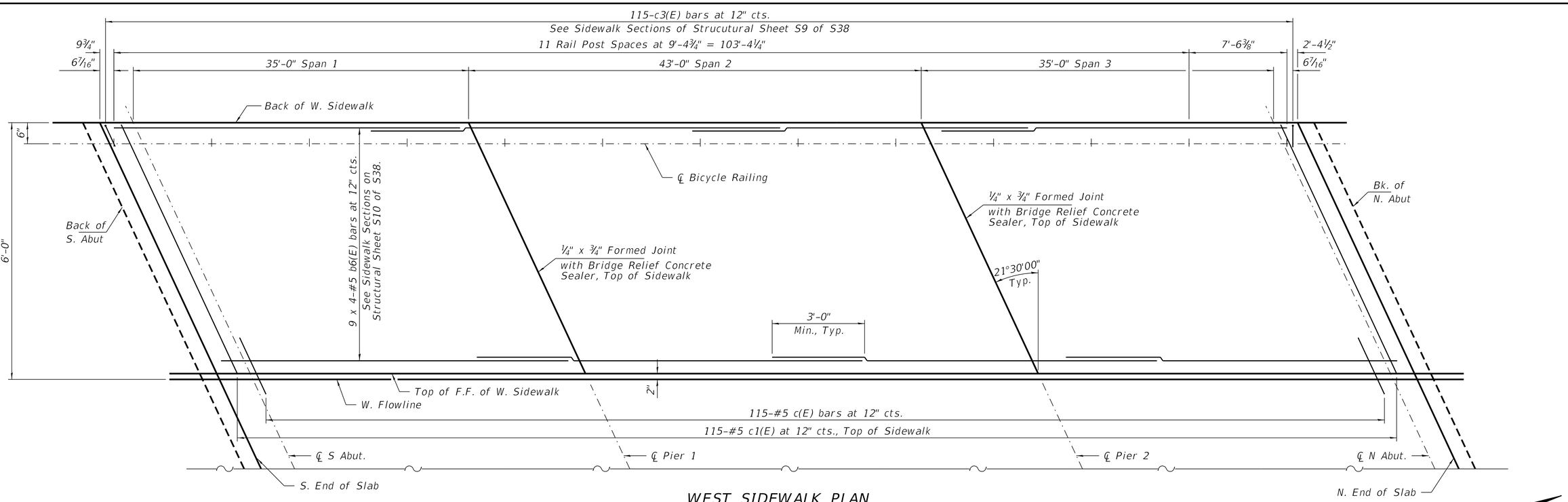


SECTION THRU EAST SIDEWALK

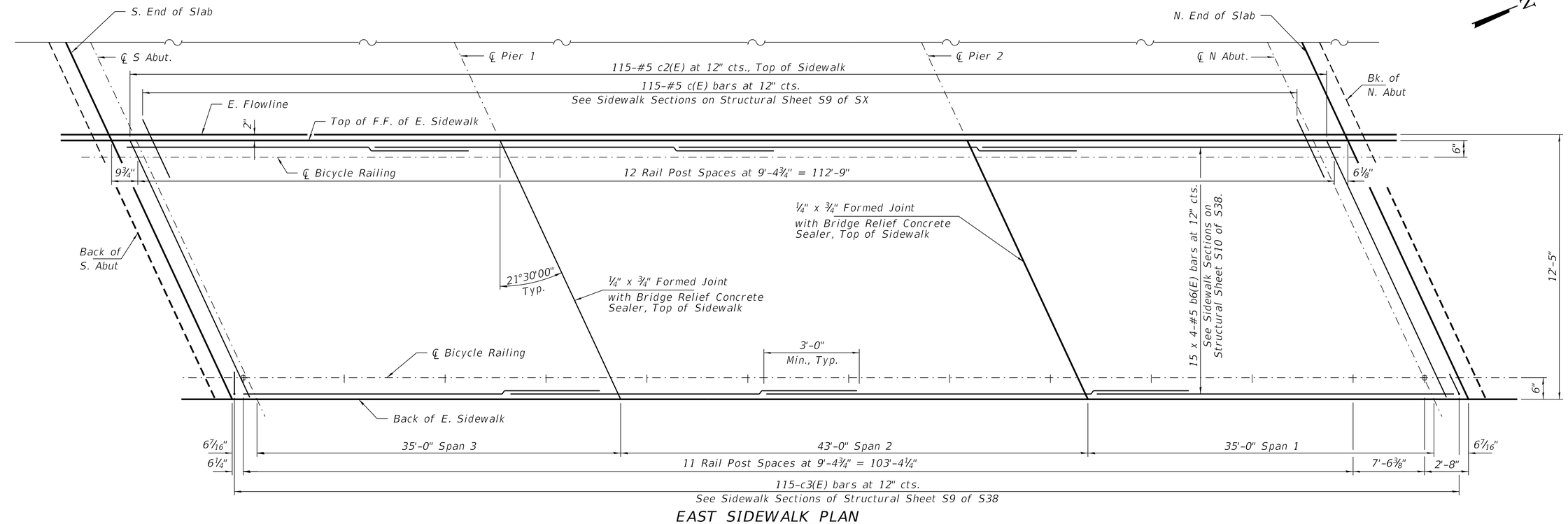
(Looking North)

FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	**STATE OF ILLINOIS** **CITY OF DEKALB**	**SUPERSTRUCTURE CROSS SECTIONS** **N. 1ST ST. - STRUCTURE NO. 019-6108** SHEET NO. S9 OF S38 SHEETS
HAMPTON, LENZINI AND RENWICK, INC. ELGIN . SPRINGFIELD CRYSTAL LAKE . MT CARMEL ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.M.S	REVISED -		
	PLOT SCALE =	DRAWN - S.S.	REVISED -		
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -		

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	82
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		



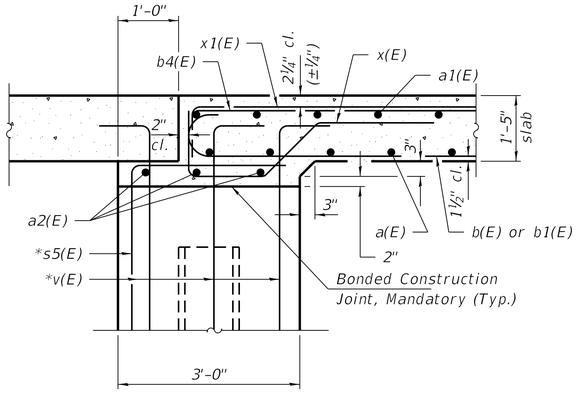
WEST SIDEWALK PLAN



EAST SIDEWALK PLAN

FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS CITY OF DEKALB	SUPERSTRUCTURE SIDEWALK & RAILING DETAILS N. 1ST ST. - STRUCTURE NO. 019-6108 SHEET NO. S10OF S38 SHEETS
HAMPTON, LENZINI AND RENWICK, INC. ELGIN . SPRINGFIELD CRYSTAL LAKE . MT CARMEL ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.M.S	REVISED -		
	PLOT SCALE =	DRAWN - S.S.	REVISED -		
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -		

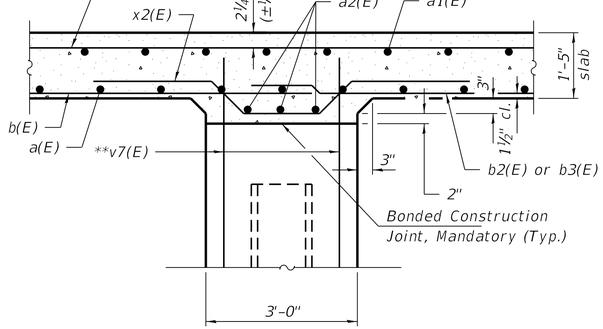
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	83
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		



SECTION A-A

(Horiz. dim at Rt. ∠'s)

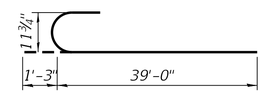
*See Structural sheets S20 and S21 of S38 for Bill of Materials
v(E) bars billed with Abutments



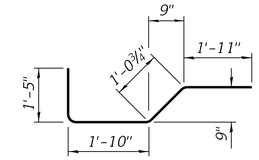
SECTION B-B

(Horiz. dim at Rt ∠s)

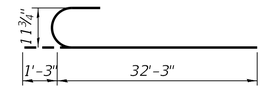
**See Structural sheets S23 and S24 of S38 for Bill of Materials
v7(E) bars billed with Piers



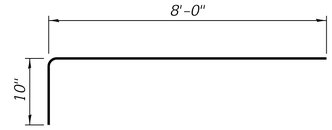
BAR b(E)



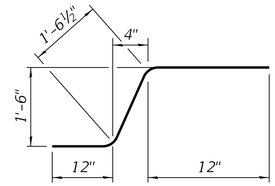
BAR x(E)



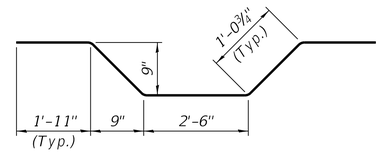
BAR b1(E)



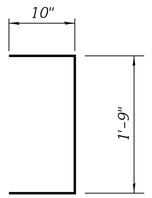
BAR x1(E)



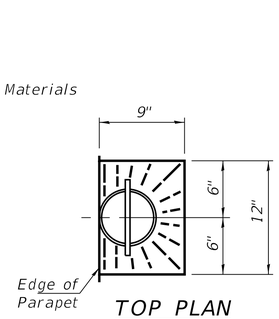
BAR c(E)



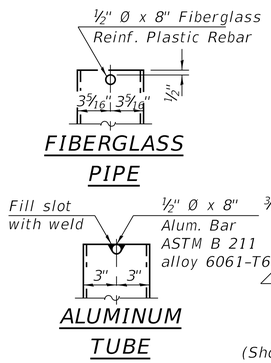
BAR x2(E)

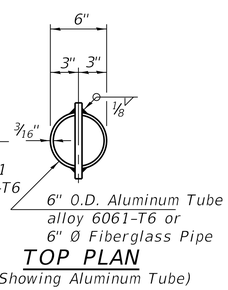


BAR c3(E)



TOP PLAN



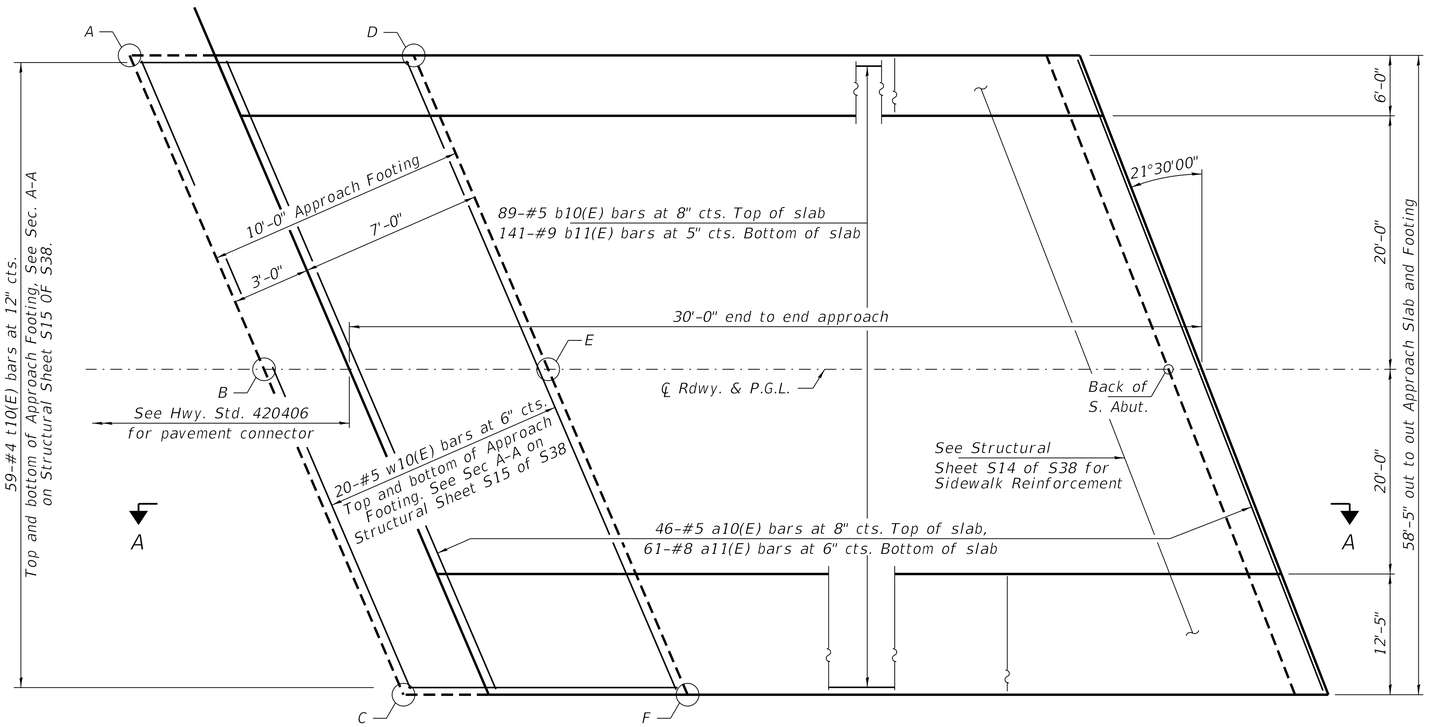


TOP PLAN

(Showing Aluminum Tube)

SUPERSTRUCTURE BILL OF MATERIAL

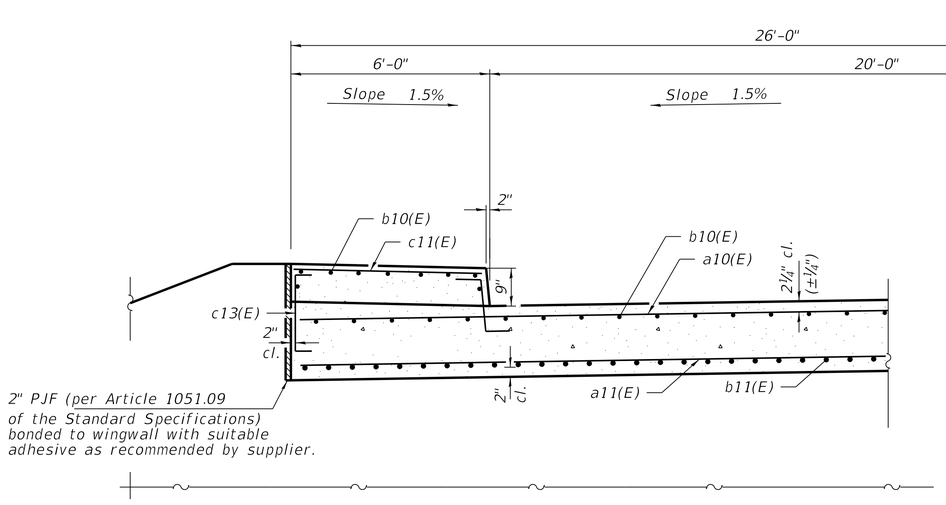
BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	183	#8	58'-1"	
a1(E)	250	#8	58'-1"	
a2(E)	12	#5	62'-5"	
b(E)	118	#9	40'-3"	
b1(E)	116	#9	33'-6"	
b2(E)	59	#9	50'-3"	
b3(E)	58	#9	37'-0"	
b4(E)	176	#9	60'-2"	
b5(E)	176	#8	25'-8"	
b6(E)	96	#5	30'-9"	
c(E)	230	#5	3'-7"	
c1(E)	115	#5	5'-10"	
c2(E)	115	#5	12'-9"	
c3(E)	230	#5	3'-5"	
x(E)	116	#5	6'-3"	
x1(E)	174	#5	8'-10"	
x2(E)	118	#5	8'-2"	
Floor Drains			Each	6
Concrete Superstructure			Cu. Yd.	426.1
Bridge Deck Grooving			Sq. Yd.	507
Protective Coat			Sq. Yd.	933
Reinf. Bars, Epoxy Coated			Pound	173,090



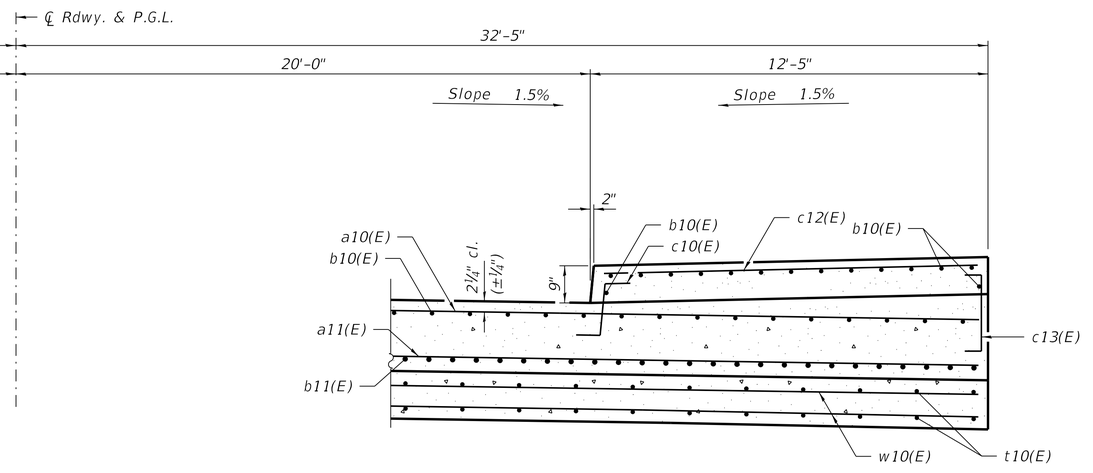
PLAN

TOP AND BOTTOM ELEVATIONS FOR SOUTH APPROACH FOOTING

South Approach		
Point/ Location	Top	Bottom
A	842.46	841.63
B	843.00	842.16
C	842.69	841.86
D	842.61	841.78
E	843.15	842.32
F	842.85	842.02



NEAR ABUTMENT



AT APPROACH FOOTING

CROSS SECTION

(Looking North)

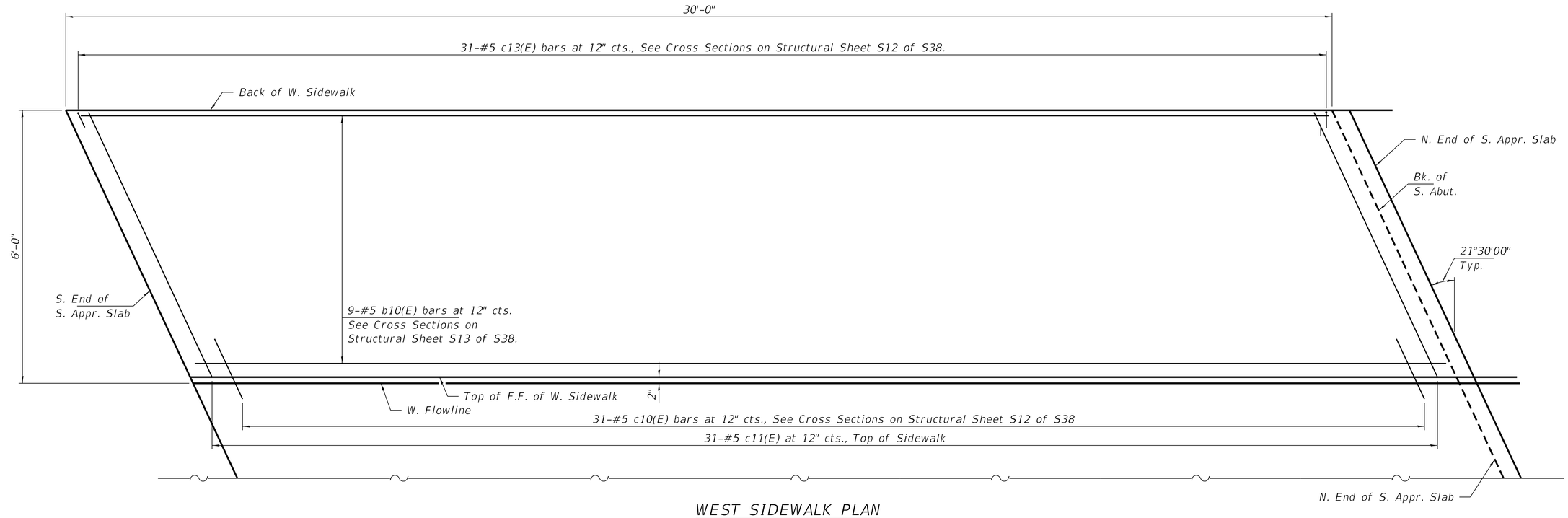
~~BAIA-CIP-39CS-R(≤30°) 10-12-2021~~

FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. ELGIN . SPRINGFIELD CRYSTAL LAKE . MT CARMEL ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.M.S	REVISED -
	PLOT SCALE =	DRAWN - S.S.	REVISED -
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -

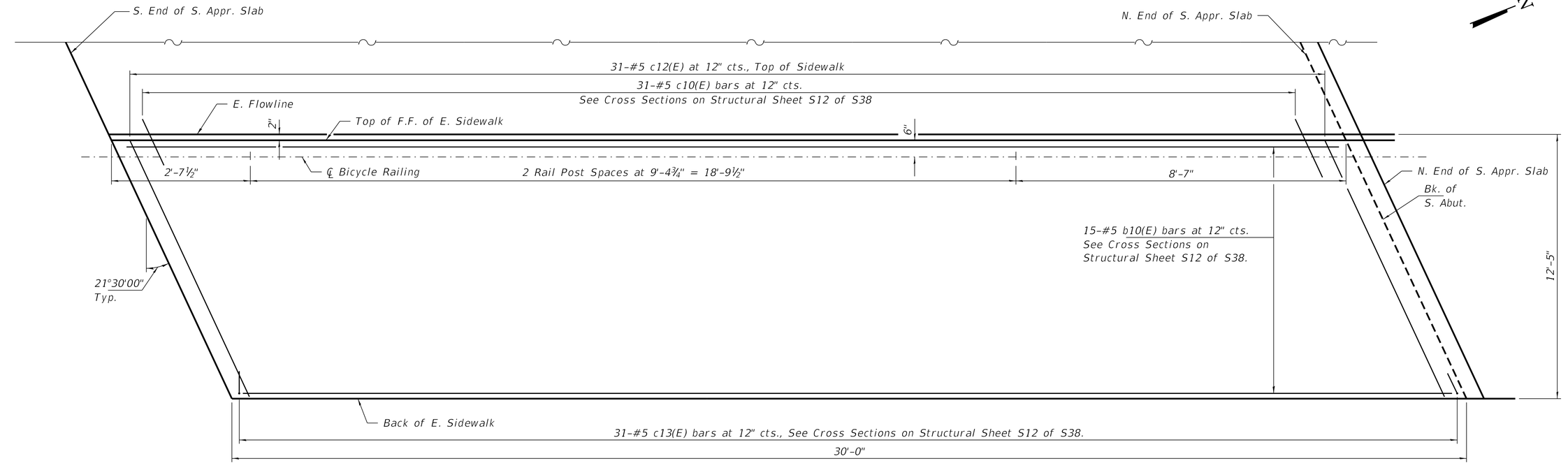
STATE OF ILLINOIS
CITY OF DEKALB

SOUTH BRIDGE APPROACH SLAB DETAILS
N. 1ST ST. - STRUCTURE NO. 019-6108
SHEET NO. S12 OF S38 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	85
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		



WEST SIDEWALK PLAN

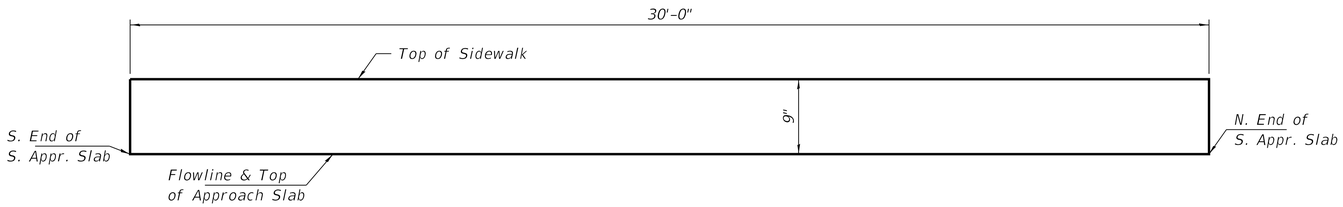


EAST SIDEWALK PLAN

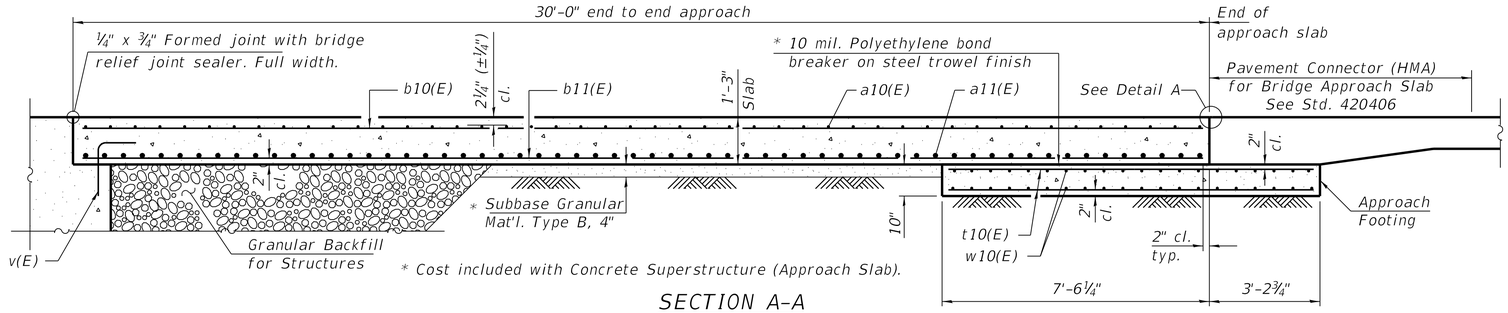
FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS CITY OF DEKALB	SOUTH APPROACH SLAB SIDEWALK DETAILS N. 1ST ST. - STRUCTURE NO. 019-6108
HAMPTON, LENZINI AND RENWICK, INC. ELGIN . SPRINGFIELD CRYSTAL LAKE . MT CARMEL		CHECKED - S.M.S	REVISED -		
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	DRAWN - S.S.	REVISED -		SHEET NO. S13 OF S38 SHEETS
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -		

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	86
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

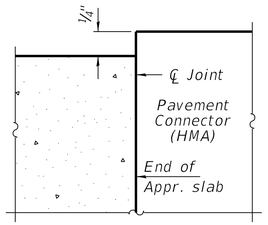
Notes:
Sidewalk concrete shall be paid for as Concrete Superstructures.
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see Structural sheet S2 and S20 of S38.



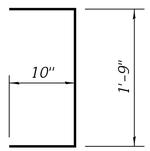
INSIDE ELEVATION OF SIDEWALKS



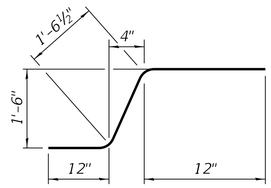
SECTION A-A



DETAIL A



BAR c13(E)



BAR c10(E)

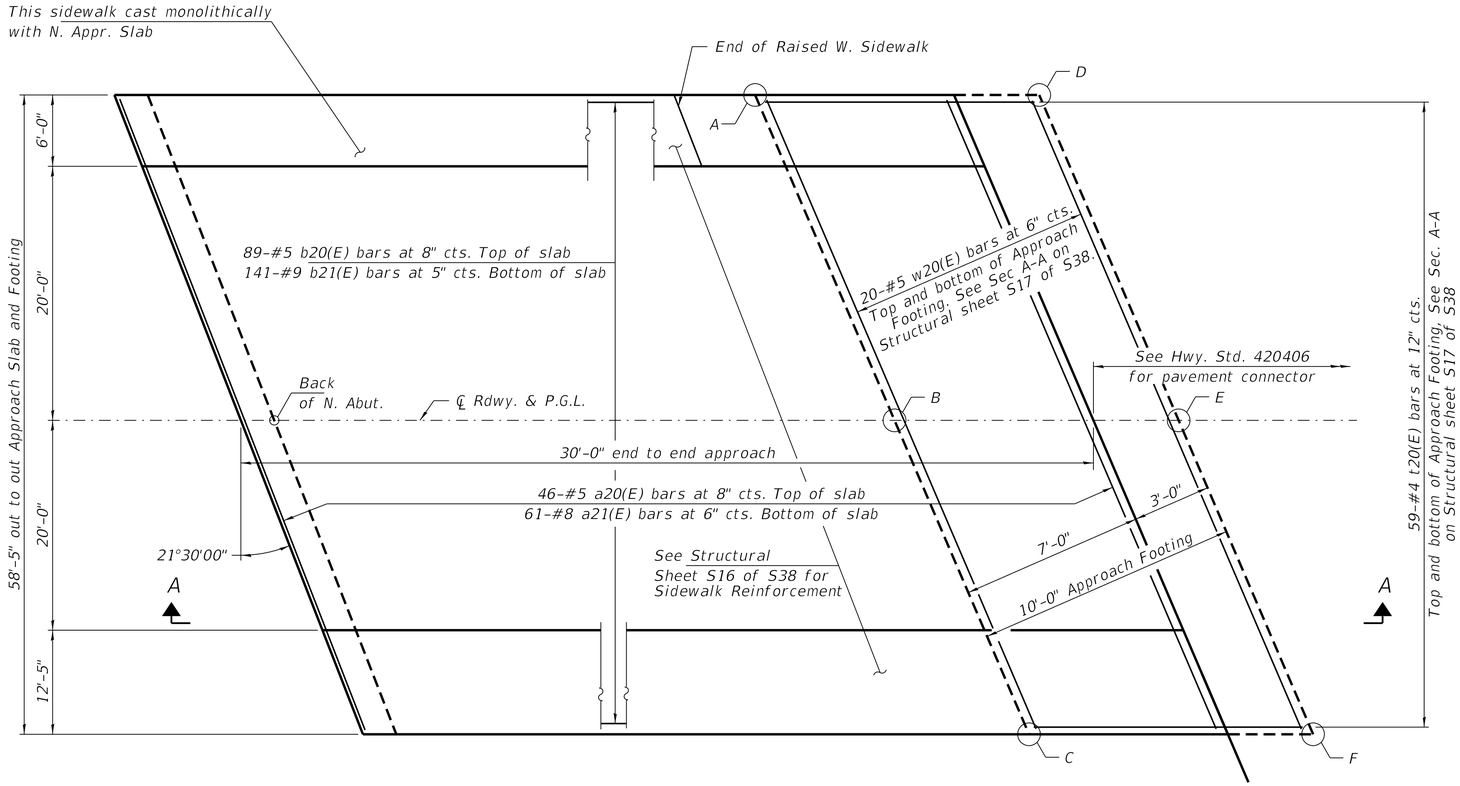
SOUTH APPROACH SLAB & SIDEWALKS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	46	#5	62'-5"	
a11(E)	61	#8	62'-5"	
b10(E)	113	#5	29'-8"	
b11(E)	141	#9	29'-8"	
c10(E)	62	#5	3'-7"	
c11(E)	31	#5	5'-10"	
c12(E)	31	#5	12'-9"	
c13(E)	62	#5	3'-5"	
t10(E)	118	#4	10'-4"	
w10(E)	40	#5	62'-5"	
Concrete Structures			Cu. Yd.	19.3
Bridge Deck Grooving			Sq. Yd.	133
Protective Coat			Sq. Yd.	323
Concrete Superstructure (Approach Slab)			Cu. Yd.	99.5
Reinforcement Bars, Epoxy Coated			Pound	35,360

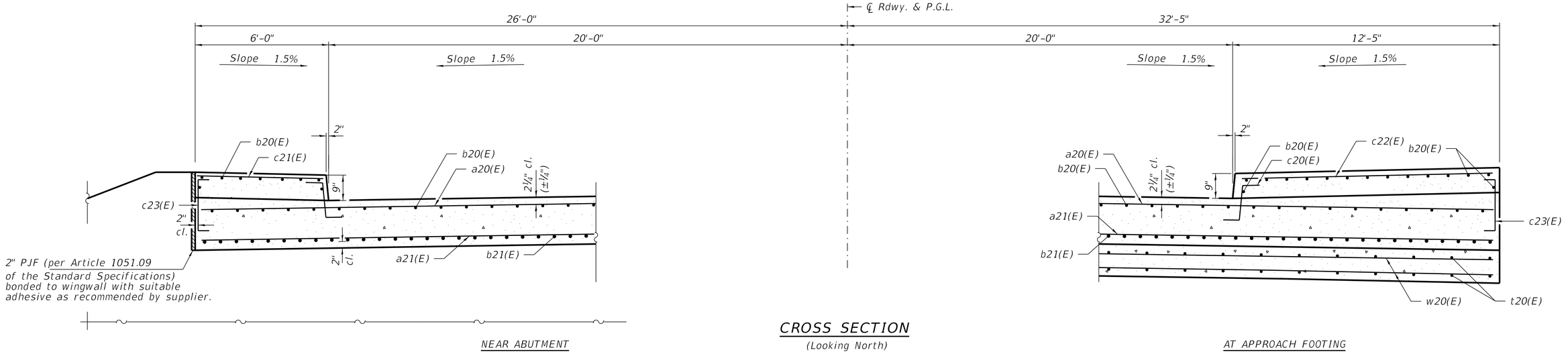
~~BAIA-CIP-39CS-R(>30°) 10-12-2021~~

FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS CITY OF DEKALB	SOUTH BRIDGE APPROACH SLAB DETAILS N. 1ST ST. - STRUCTURE NO. 019-6108 SHEET NO. S14 OF S38 SHEETS
HAMPTON, LENZINI AND RENWICK, INC. ELGIN . SPRINGFIELD CRYSTAL LAKE . MT CARMEL ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.M.S	REVISED -		
	PLOT SCALE =	DRAWN - S.S.	REVISED -		
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -		

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	87
		CONTRACT NO. 87779		
	ILLINOIS FED. AID PROJECT			



PLAN



NEAR ABUTMENT

CROSS SECTION

(Looking North)

AT APPROACH FOOTING

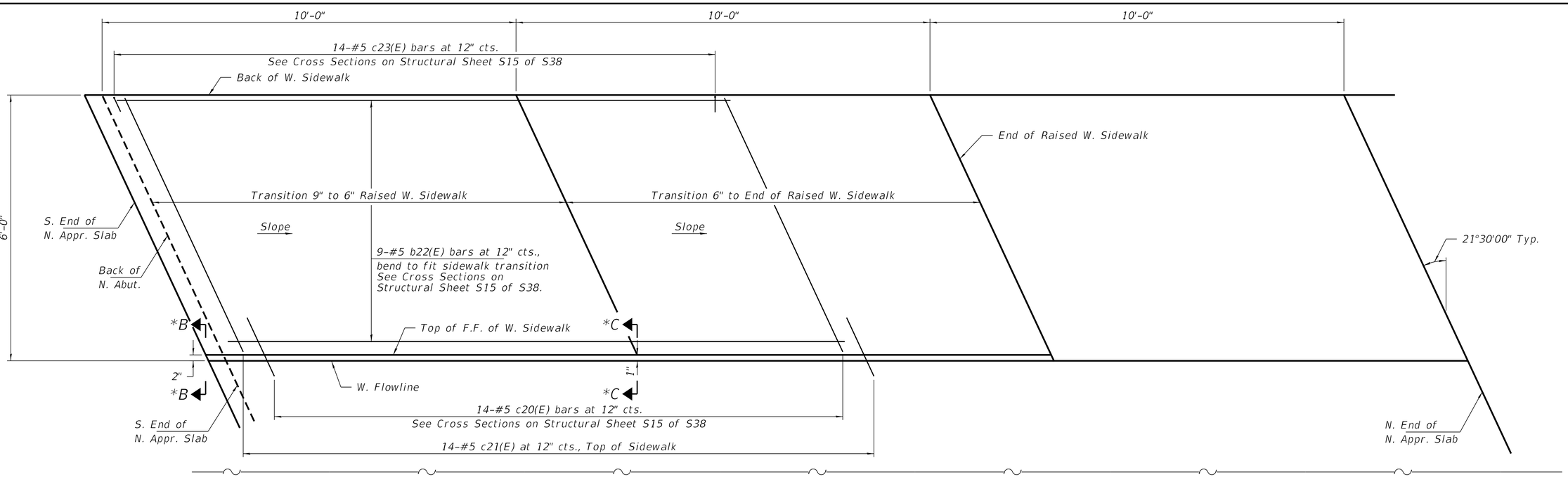
TOP AND BOTTOM ELEVATIONS FOR NORTH APPROACH FOOTING

North Approach		
Point/ Location	Top	Bottom
A	842.91	842.08
B	843.15	842.32
C	842.49	841.66
D	842.75	841.92
E	843.00	842.17
F	842.36	841.52

~~BAIA-CIP-39CS-R(≤30°) 10-12-2021~~

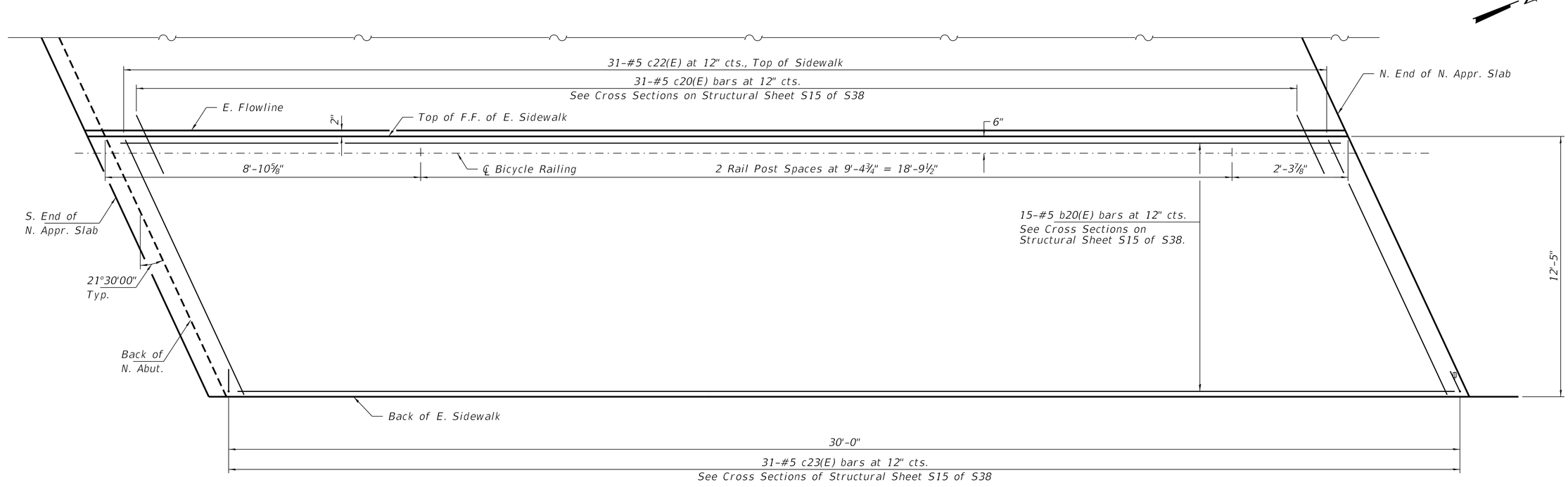
FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS CITY OF DEKALB	NORTH BRIDGE APPROACH SLAB DETAILS N. 1ST ST. - STRUCTURE NO. 019-6108
HAMPTON, LENZINI AND RENWICK, INC. ELGIN · SPRINGFIELD CRYSTAL LAKE · MT CARMEL		CHECKED - S.M.S	REVISED -		SHEET NO. S15 OF S38 SHEETS
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	DRAWN - S.S.	REVISED -		
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -		

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	88
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		



* See Structural Sheet S17 of SX for SECTION B-B and C-C

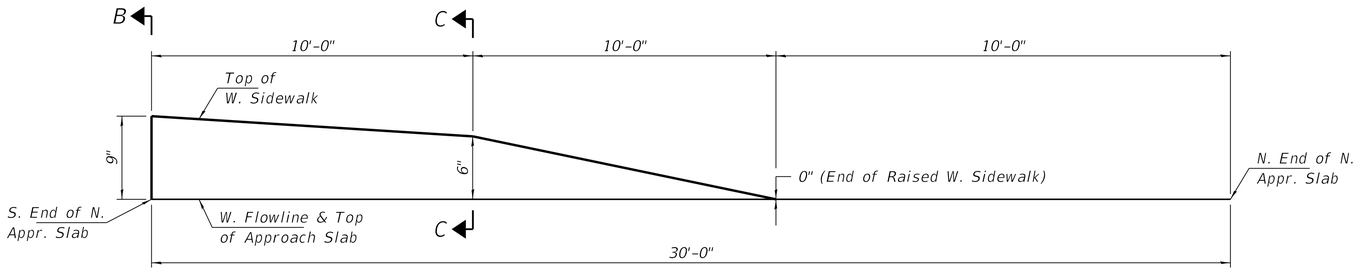
WEST SIDEWALK PLAN



EAST SIDEWALK PLAN

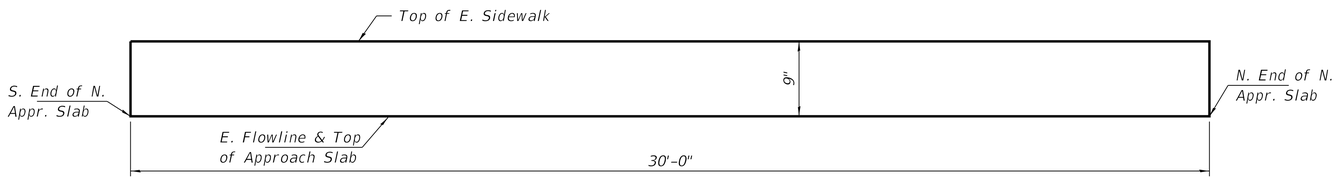
FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	**STATE OF ILLINOIS** **CITY OF DEKALB**	**NORTH APPROACH SLAB SIDEWALK DETAILS** **N. 1ST ST. - STRUCTURE NO. 019-6108**
HAMPTON, LENZINI AND RENWICK, INC. ELGIN . SPRINGFIELD CRYSTAL LAKE . MT CARMEL		CHECKED - S.M.S	REVISED -		
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	DRAWN - S.S.	REVISED -		SHEET NO. S16 OF S38 SHEETS
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -		

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	89
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		



INSIDE ELEVATION OF WEST SIDEWALK

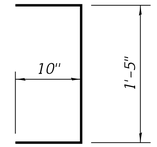
(Cast monolithically with N. Appr. Slab)



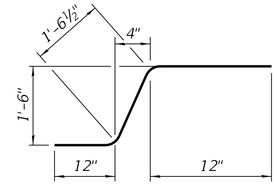
INSIDE ELEVATION OF EAST SIDEWALK

Notes:

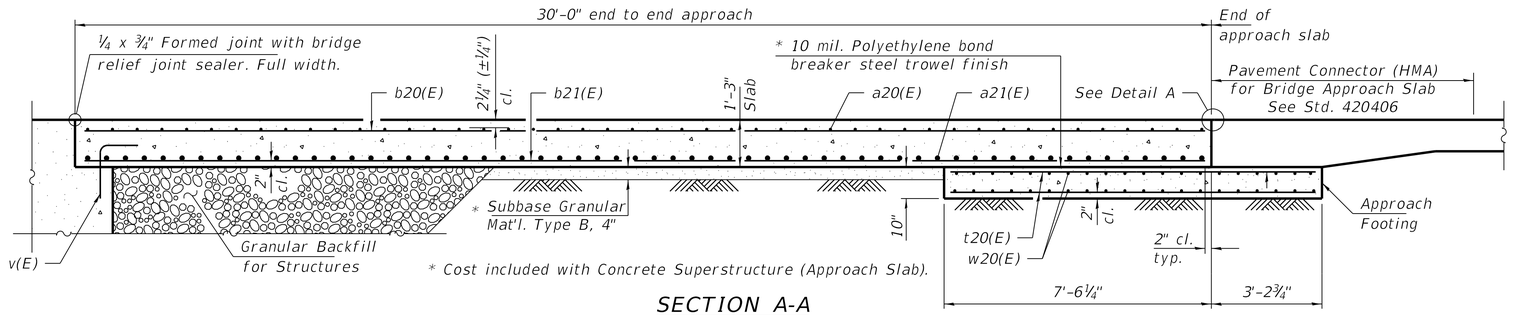
Sidewalk concrete shall be paid for as Concrete Superstructures.
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see Structural sheet S2 and S21 of SX.



BAR c23(E)

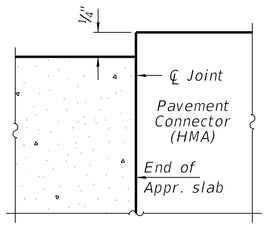


BAR c20(E)

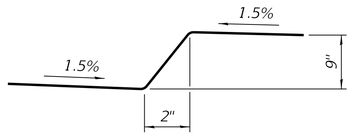


* Cost included with Concrete Superstructure (Approach Slab).

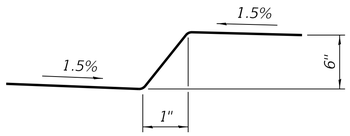
SECTION A-A



DETAIL A



SECTION B-B



SECTION C-C

NORTH APPROACH SLAB & SIDEWALKS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a20(E)	46	#5	62'-5"	
a21(E)	61	#8	62'-5"	
b20(E)	104	#5	29'-8"	
b21(E)	141	#9	29'-8"	
b22(E)	9	#5	13'-0"	
c20(E)	45	#5	3'-7"	
c21(E)	14	#5	5'-10"	
c22(E)	31	#5	12'-9"	
c23(E)	45	#5	3'-1"	
t20(E)	118	#4	10'-4"	
w20(E)	40	#5	62'-5"	
Concrete Structures			Cu. Yd.	19.3
Bridge Deck Grooving			Sq. Yd.	133
Protective Coat			Sq. Yd.	322
Concrete Superstructure (Approach Slab)			Cu. Yd.	96.6
Reinforcement Bars, Epoxy Coated			Pound	34,960

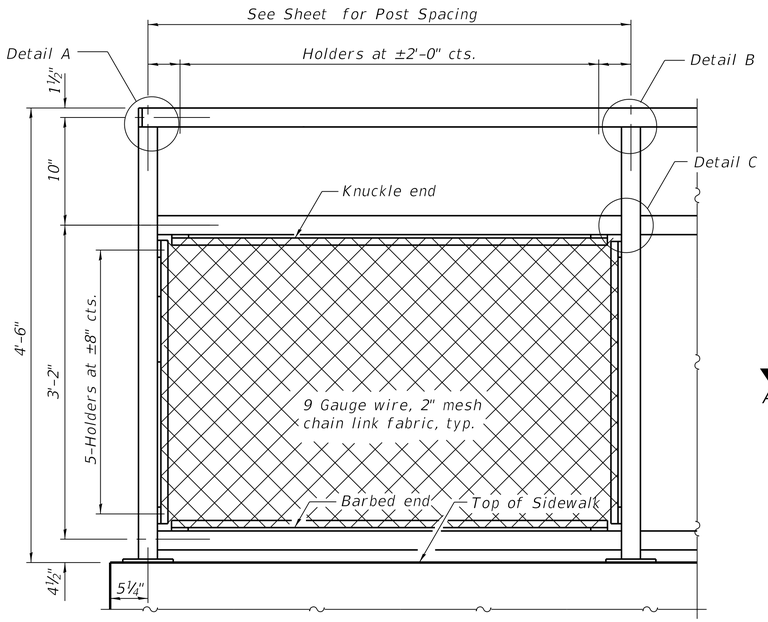
~~BAIA-CIP-39CS-R(>30°) 10-12-2021~~

FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. ELGIN . SPRINGFIELD CRYSTAL LAKE . MT CARMEL ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.M.S	REVISED -
	PLOT SCALE =	DRAWN - S.S.	REVISED -
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -

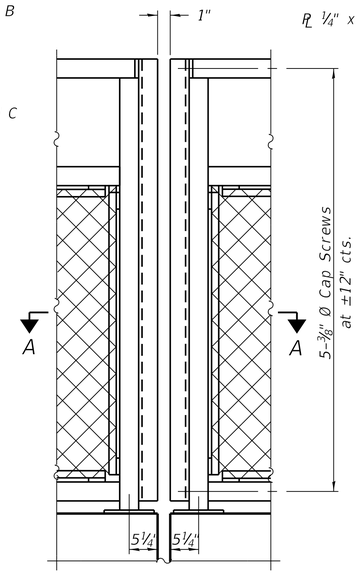
STATE OF ILLINOIS
CITY OF DEKALB

NORTH BRIDGE APPROACH SLAB DETAILS
N. 1ST ST. - STRUCTURE NO. 019-6108
SHEET NO. S17 OF S38 SHEETS

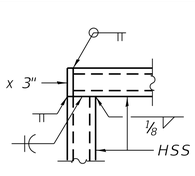
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	90
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		



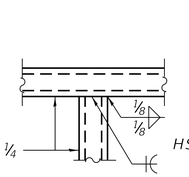
BICYCLE RAILING



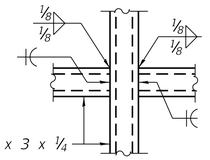
BICYCLE RAILING



DETAIL A



DETAIL B



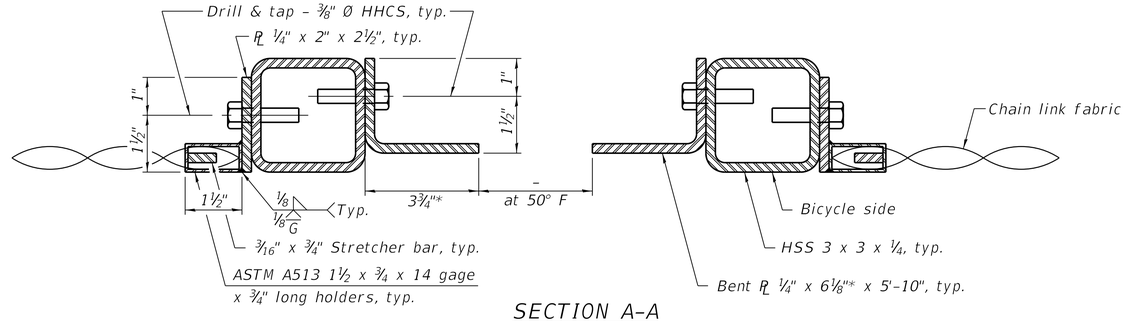
DETAIL C

The designer should add the appropriate note as applicable.

A. When railing is galvanized:
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

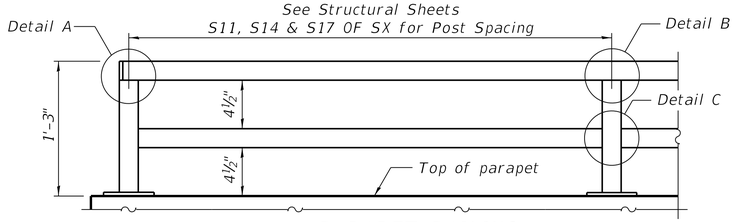
B. When railing is painted:
All post, railing, splices, anchor devices, and plates shall be painted using the (List the appropriate paint system for Structural Steel).

Only one of the above notes would appear on Contract Plans.

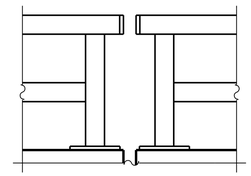


SECTION A-A

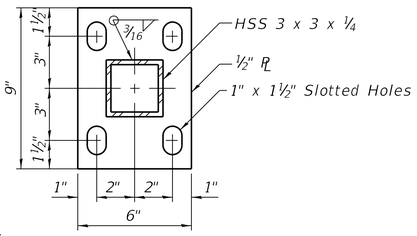
* Assume ⅜" radius. Dimensions may need to be modified for larger joints to avoid gaps greater than 6".



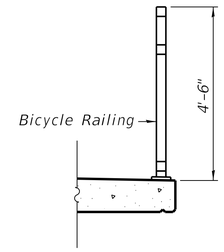
PARAPET RAILING
ELEVATION
(Inside Face of Two Element Rail)



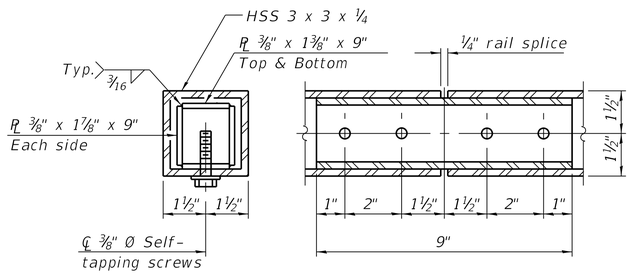
PARAPET RAILING
ELEVATION AT EXPANSION JOINT



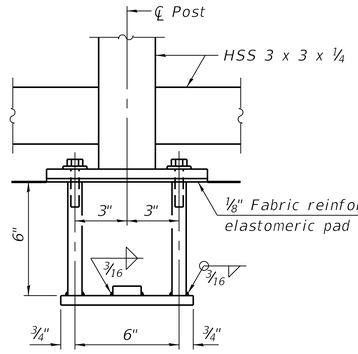
SECTION B-B

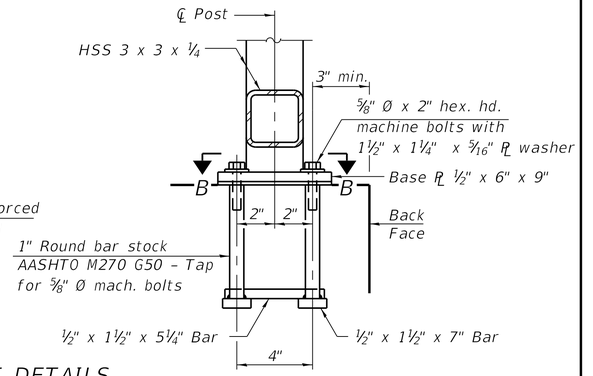


SECTION THRU DECK



RAIL SPLICE





ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

RAILING CRITERIA

NCHRP 350 Test Level	4
Railing Weight (plf)	25
Bicycle Railing Weight (plf)	50
Max Post Spacing	10'-0"

Notes:
Place reinforcement bars to miss anchor rod locations.
CVN testing is not required for the HSS tubing used in the Bicycle Railing.
All HSS tubing used for the Parapet Railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.

R-29 10-12-2021

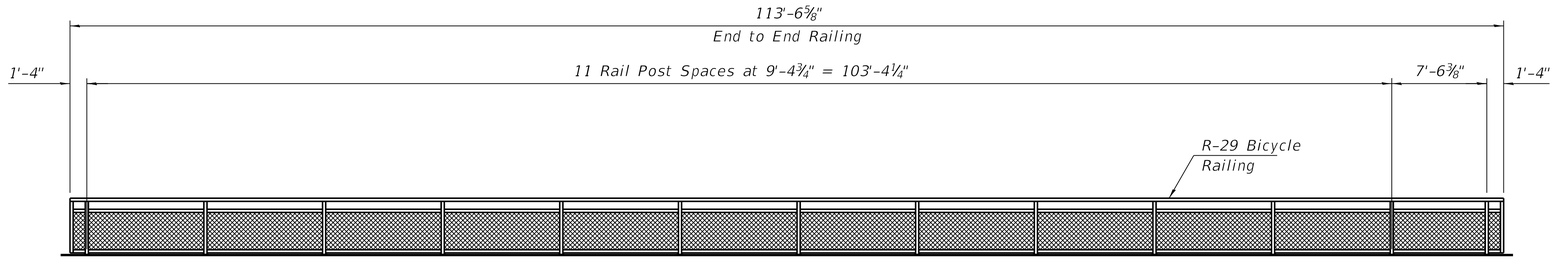
FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	
HAMPTON, LENZINI AND RENWICK, INC. ELGIN . SPRINGFIELD CRYSTAL LAKE . MT CARMEL ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.M.S	REVISED -	
	PLOT SCALE =	DRAWN - S.S.	REVISED -	
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -	

STATE OF ILLINOIS
CITY OF DEKALB

BICYCLE RAILING DETAILS
N. 1ST ST. - STRUCTURE NO. 019-6108
SHEET NO. S18 OF S38 SHEETS

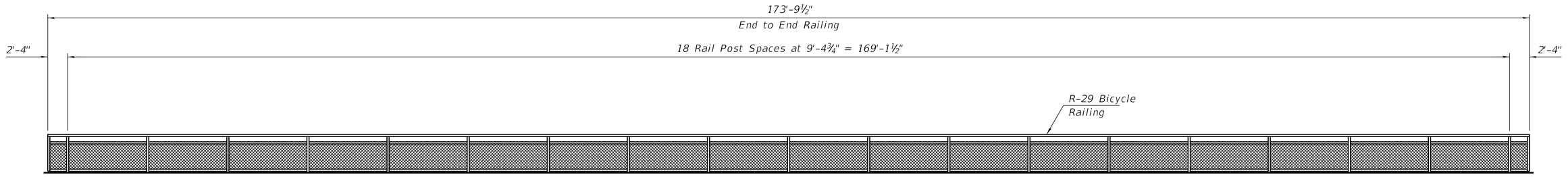
F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	91

CONTRACT NO. 87779
ILLINOIS | FED. AID PROJECT



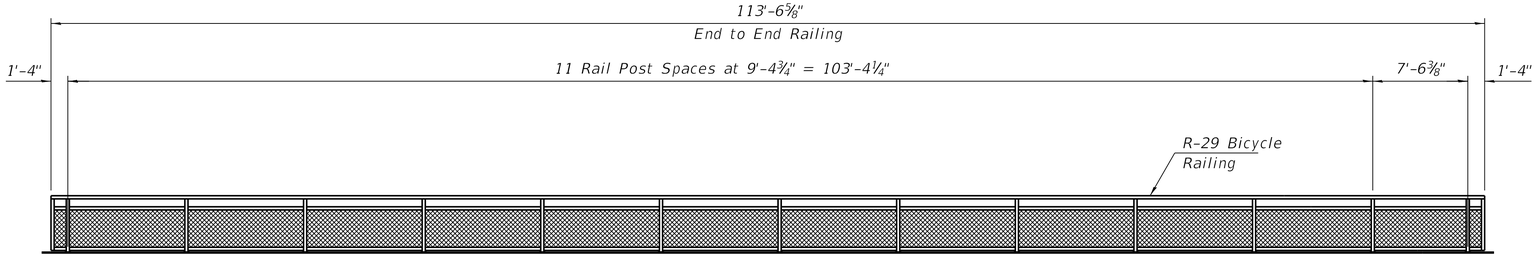
BACK OF WEST SIDEWALK RAILING

(Looking West)



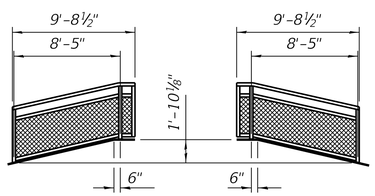
FRONT OF EAST SIDEWALK RAILING

(Looking West)



BACK OF EAST SIDEWALK RAILING

(Looking West)



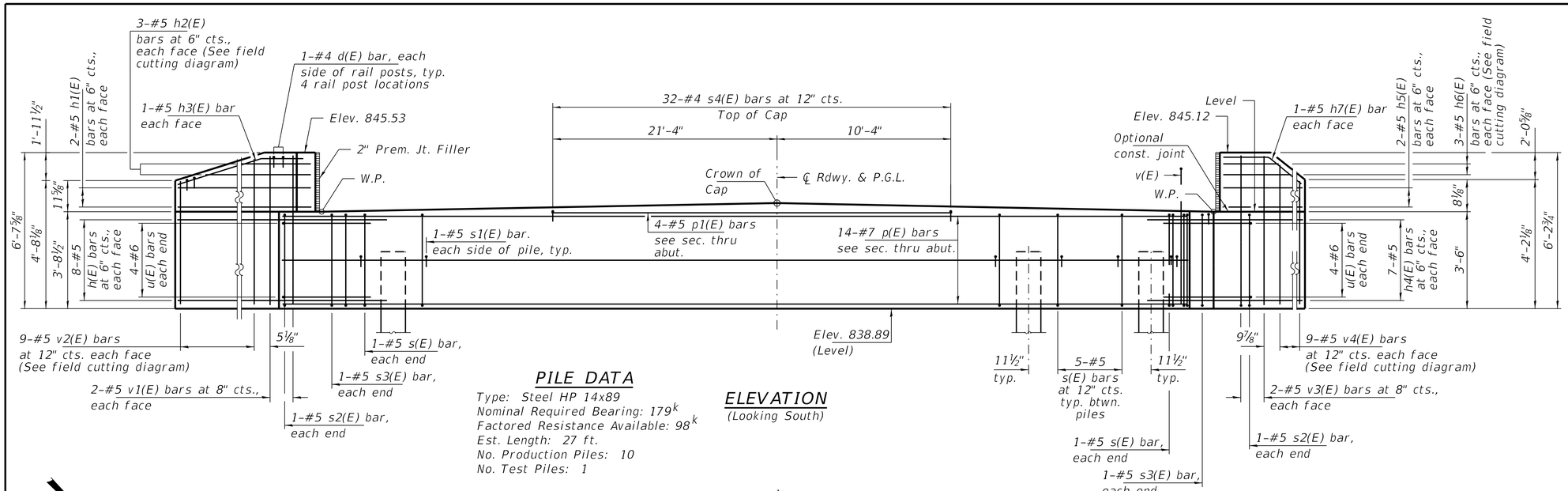
SOUTH ABUTMENT WINGWALL RAILINGS

(Looking South)

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	420

FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS CITY OF DEKALB	BICYCLE RAILING LAYOUT N. 1ST ST. - STRUCTURE NO. 019-6108	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. ELGIN · SPRINGFIELD CRYSTAL LAKE · MT CARMEL ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.M.S	REVISED -			5352	18-00193-00-BR	DEKALB	133	92
	PLOT SCALE =	DRAWN - S.S.	REVISED -					CONTRACT NO. 87779		
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -		SHEET NO. S19 OF S38 SHEETS		ILLINOIS	FED. AID PROJECT		

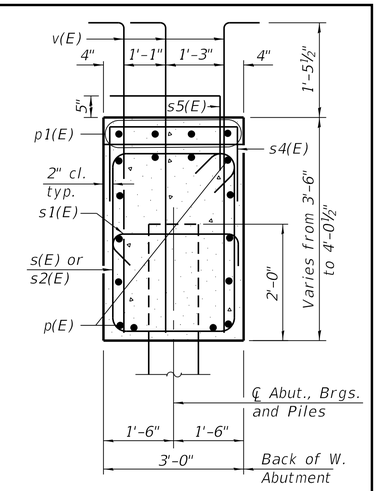


PILE DATA

Type: Steel HP 14x89
Nominal Required Bearing: 179^{k}
Factored Resistance Available: 98^{k}
Est. Length: 27 ft.
No. Production Piles: 10
No. Test Piles: 1

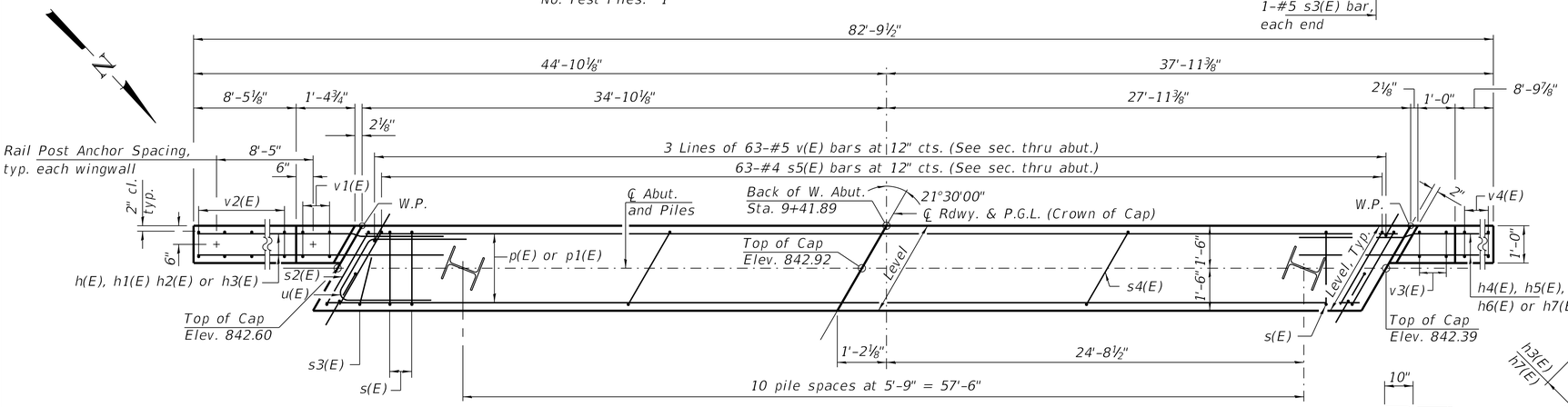
ELEVATION

(Looking South)

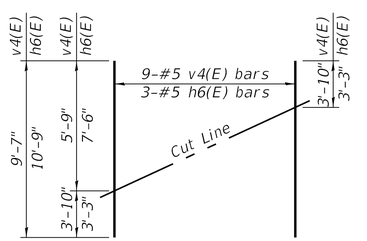


SEC. THRU ABUT.

Dimensions at right angles to abutment.

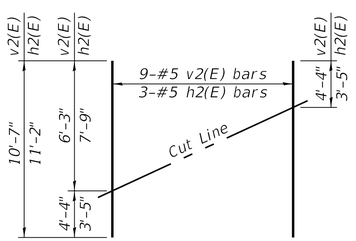


PLAN



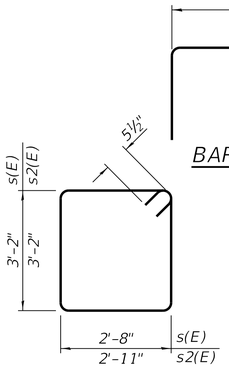
WEST WINGWALL FIELD CUTTING DIAGRAM

Order v4(E) and h6(E) full length. Cut as shown and use remainder of bars in opposite face.



EAST WINGWALL FIELD CUTTING DIAGRAM

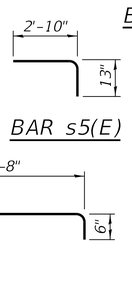
Order v2(E) and h2(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s4(E)

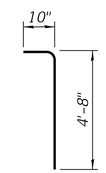
BAR s(E) & s2(E)

BAR d(E)

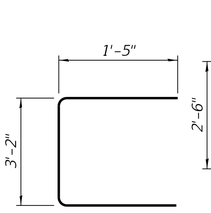


BAR s5(E)

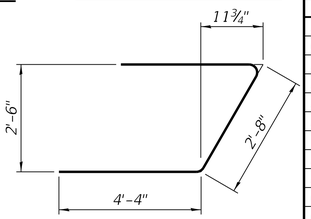
BAR s1(E)



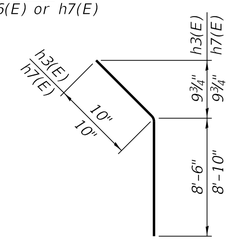
BAR v(E)



BAR s3(E)



BAR u(E)



BAR h3(E) & h7(E)

BILL OF MATERIAL - SOUTH ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE
d(E)	8	#4	2'-8"	⊓
h(E)	16	#5	12'-7"	———
h1(E)	4	#5	9'-1"	———
h2(E)	3	#5	11'-2"	———
h3(E)	2	#5	9'-4"	———
h4(E)	14	#5	13'-0"	———
h5(E)	4	#5	9'-6"	———
h6(E)	3	#5	10'-9"	———
h7(E)	2	#5	6'-11"	———
p(E)	14	#7	62'-5"	———
p1(E)	4	#5	31'-8"	———
s(E)	52	#5	12'-7"	□
s1(E)	20	#5	3'-8"	⊐
s2(E)	2	#5	13'-1"	□
s3(E)	2	#5	6'-0"	⊐⊏
s4(E)	32	#4	7'-8"	⊐⊏
s5(E)	63	#4	3'-11"	⊐
u(E)	8	#6	11'-4"	⊐
v(E)	189	#5	5'-6"	———
v1(E)	4	#5	6'-3"	———
v2(E)	9	#5	10'-7"	———
v3(E)	4	#5	5'-10"	———
v4(E)	9	#5	9'-7"	———

Structure Excavation	Cu. Yd.	111
Concrete Structures	Cu. Yd.	30.8
Protective Coat	Sq. Yd.	10
Reinf. Bars, Epoxy Coated	Pound	5,100
Furnishing Steel Piles, HP14x89	Foot	270
Driving Piles	Foot	270
Test Pile Steel HP14x89	Each	1
Pile Shoes	Each	11
Name Plates	Each	1
Granular Backfill for Structures	Cu. Yd.	78
Geocomposite Wall Drain	Sq. Yd.	40
Pipe Underdrains for Struct., 4"	Foot	98

For details of piles see Structural sheet S23 of S38.

~~AIS-R~~ ~~6-15-2019~~

FILE NAME = 200251-sht-bridge NFS.dgn
USER NAME = steves
PLOT SCALE =
PLOT DATE = 5/13/2022

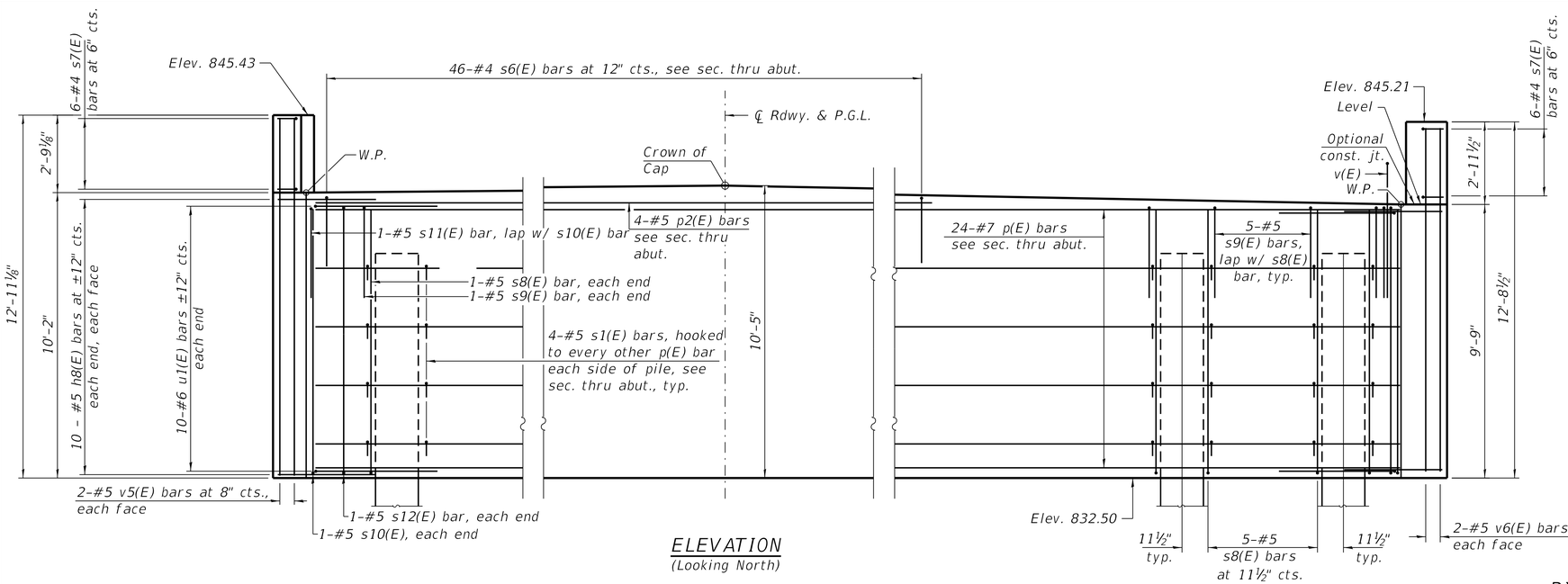
DESIGNED - I.P.N.
CHECKED - S.M.S
DRAWN - S.S.
CHECKED - I.P.N.
REVISED -
REVISED -
REVISED -
REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
ELGIN . SPRINGFIELD
CRYSTAL LAKE . MT CARMEL
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

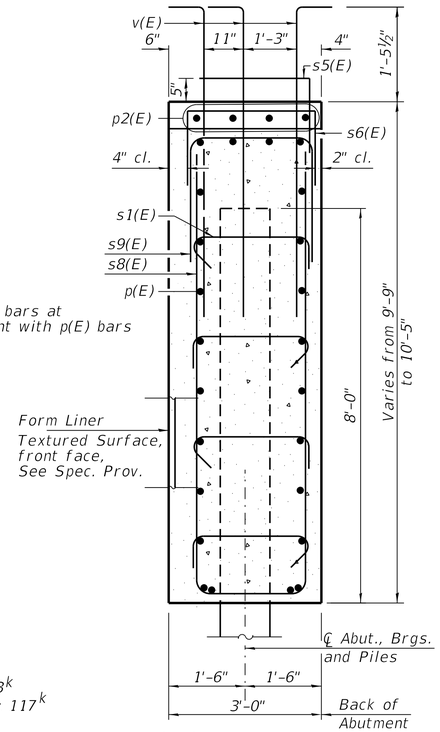
STATE OF ILLINOIS
CITY OF DEKALB

SOUTH ABUTMENT
N. 1ST ST. - STRUCTURE NO. 019-6108
SHEET NO. S20 OF S38 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	93
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		



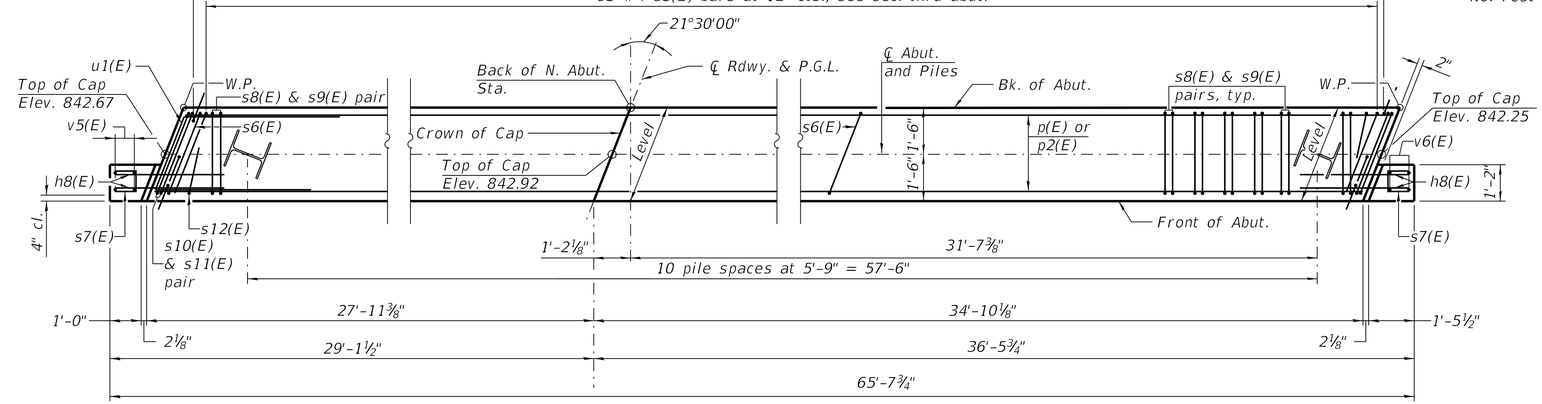
ELEVATION
(Looking North)



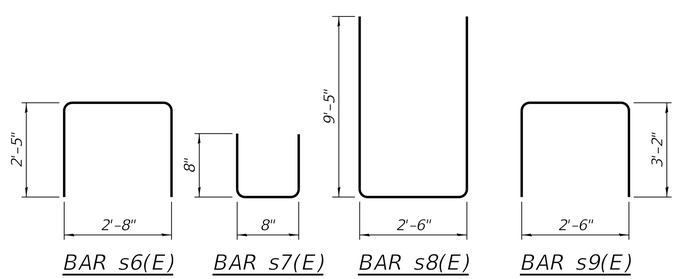
SEC. THRU ABUT.
Dimensions at right angles to abutment.

PILE DATA

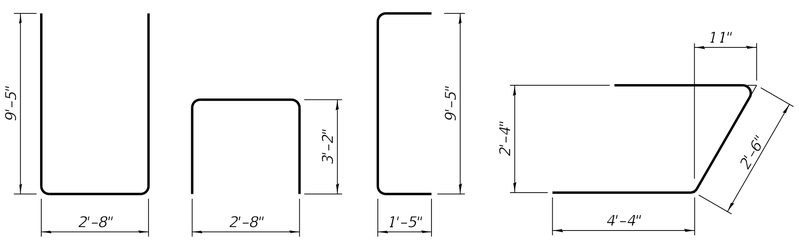
Type: Steel HP 14x89
Nominal Required Bearing: 213^{k}
Factored Resistance Available: 117^{k}
Est. Length: 36 ft.
No. Production Piles: 10
No. Test Piles: 1



PLAN



BAR s6(E) BAR s7(E) BAR s8(E) BAR s9(E)



BAR s10(E) BAR s11(E) BAR s12(E) BAR u1(E)

See Sheet 114 for joint details between the wingwalls and the soldier pile walls

For details of piles see Structural sheet S25 of S38.

* See Structure sheet S20 for bar details.

BILL OF MATERIAL - NORTH ABUT.

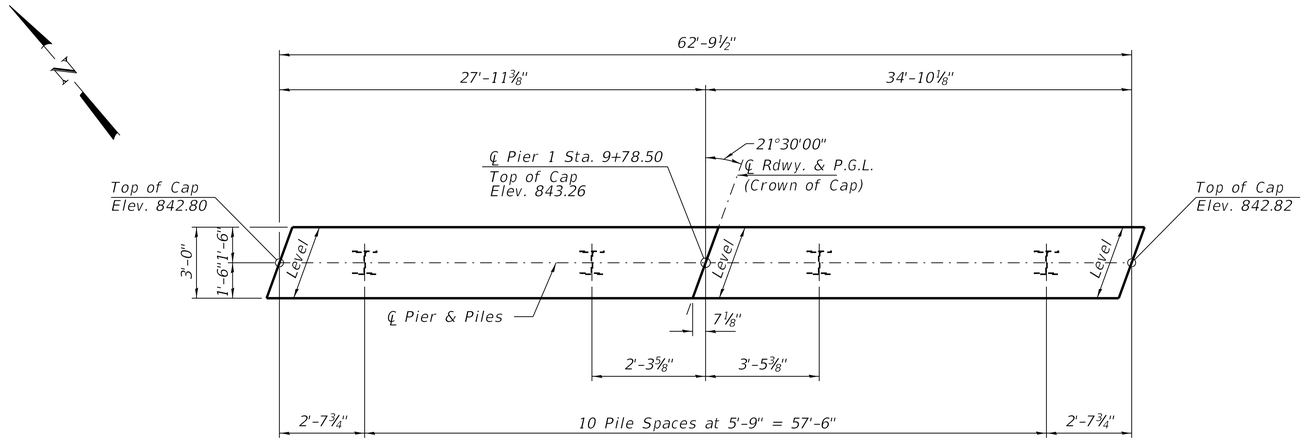
	BAR	NO.	SIZE	LENGTH	SHAPE
	h8(E)	40	#5	3'-11"	
	p(E)	24	#7	62'-5"	
	p2(E)	4	#5	45'-9"	
*	s1(E)	88	#5	3'-8"	
*	s5(E)	63	#4	3'-11"	
	s6(E)	46	#4	7'-6"	
	s7(E)	12	#4	2'-0"	
	s8(E)	52	#5	21'-4"	
	s9(E)	52	#5	8'-10"	
	s10(E)	2	#5	21'-6"	
	s11(E)	2	#5	9'-0"	
	s12(E)	2	#5	12'-3"	
	u1(E)	20	#6	11'-2"	
	v(E)	189	#5	5'-7"	
	v1(E)	4	#5	12'-7"	
	v2(E)	4	#5	12'-4"	

Structure Excavation	Cu. Yd.	305
Concrete Structures	Cu. Yd.	72.7
Protective Coat	Sq. Yd.	417
Form Liner Textured Surface	Sq. Ft.	61
Reinf. Bars, Epoxy Coated	Pound	7,430
Furnishing Steel Piles, HP14x89	Foot	360
Driving Piles	Foot	360
Test Pile Steel HP14x89	Each	1
Pile Shoes	Each	11
Granular Backfill for Structures	Cu. Yd.	233
Geocomposite Wall Drain	Sq. Yd.	78
Pipe Underdrains for Struct., 4"	Foot	66

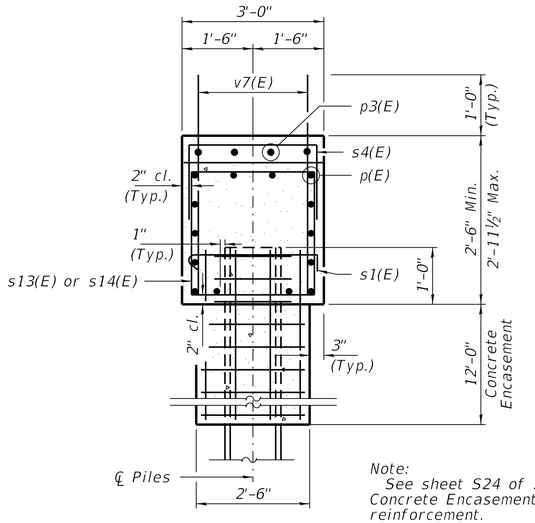
~~AIS-R~~ ~~6-15-2019~~

FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS CITY OF DEKALB	NORTH ABUTMENT N. 1ST ST. - STRUCTURE NO. 019-6108
HAMPTON, LENZINI AND RENWICK, INC. ELGIN . SPRINGFIELD CRYSTAL LAKE . MT CARMEL ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.M.S	REVISED -		SHEET NO. S21 OF S38 SHEETS
	PLOT SCALE =	DRAWN - S.S.	REVISED -		
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -		

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	94
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		



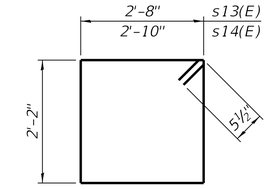
PLAN



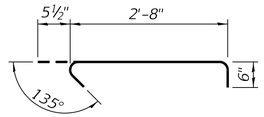
Note:
See sheet S24 of S38 for Concrete Encasement reinforcement.

SECTION A-A

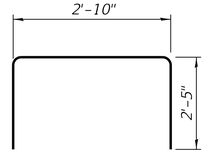
Dimensions at right ∠'s to Pier.



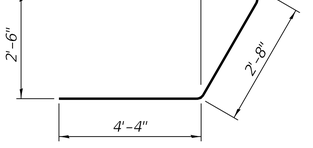
BARS s13(E) & s14(E)



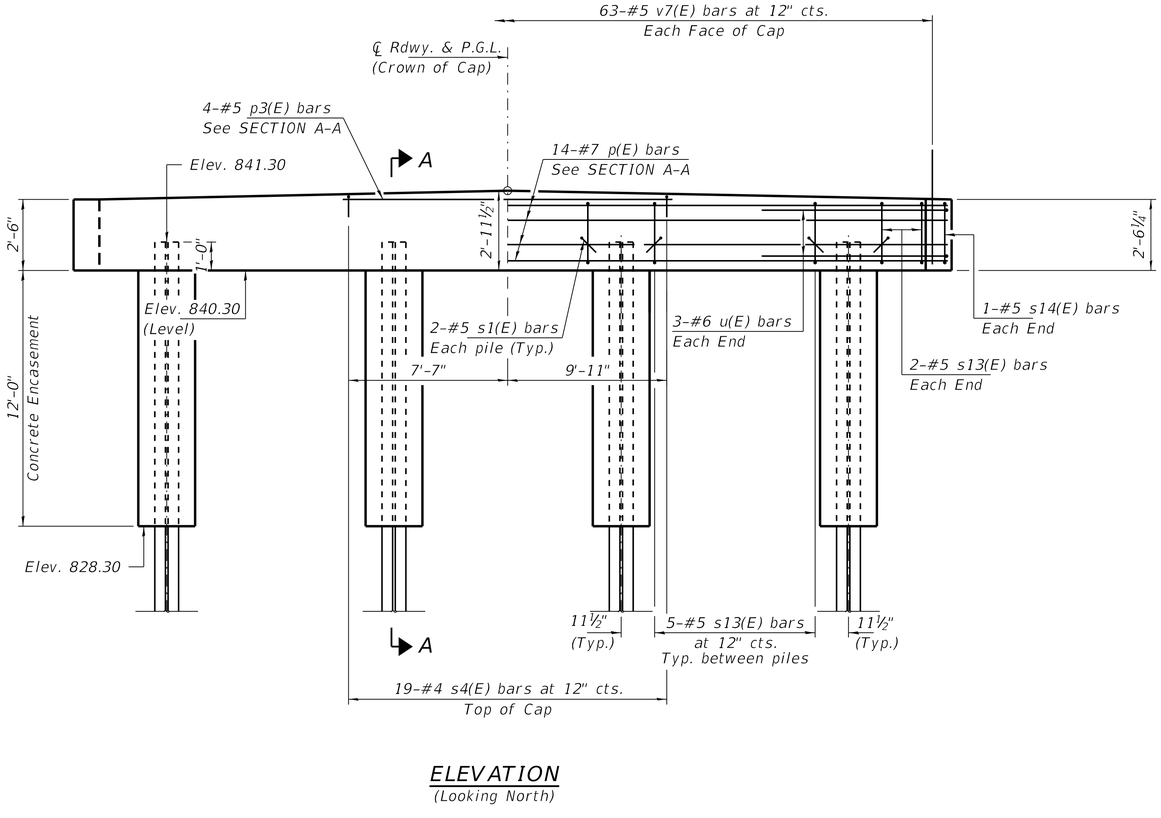
BAR s1(E)



BAR s4(E)



BAR u(E)



ELEVATION

(Looking North)

PILE DATA

Type: Steel HP 14x89
Nominal Required Bearing: 288^{k}
Factored Resistance Available: 158^{k}
Est. Length: 53 ft.
No. Production Piles: 10
No. Test Piles: 1

BILL OF MATERIAL - PIER 1

	BAR	NO.	SIZE	LENGTH	SHAPE
	p(E)	14	#7	62'-5"	
	p3(E)	4	#5	17'-6"	
*	s1(E)	22	#5	3'-8"	
*	s4(E)	19	#4	7'-8"	
	s13(E)	54	#5	10'-7"	
	s14(E)	2	#5	10'-11"	
*	u(E)	6	#6	11'-4"	
	v7(E)	126	#5	3'-4"	

Concrete Structures	Cu. Yd.	19.1
Concrete Encasement	Cu. Yd.	23.1
Reinf. Bars, Epoxy Coated	Pound	3,230
Furnishing Steel Piles HP14x89	Foot	530
Driving Piles	Foot	530
Test Pile Steel HP14x89	Each	1

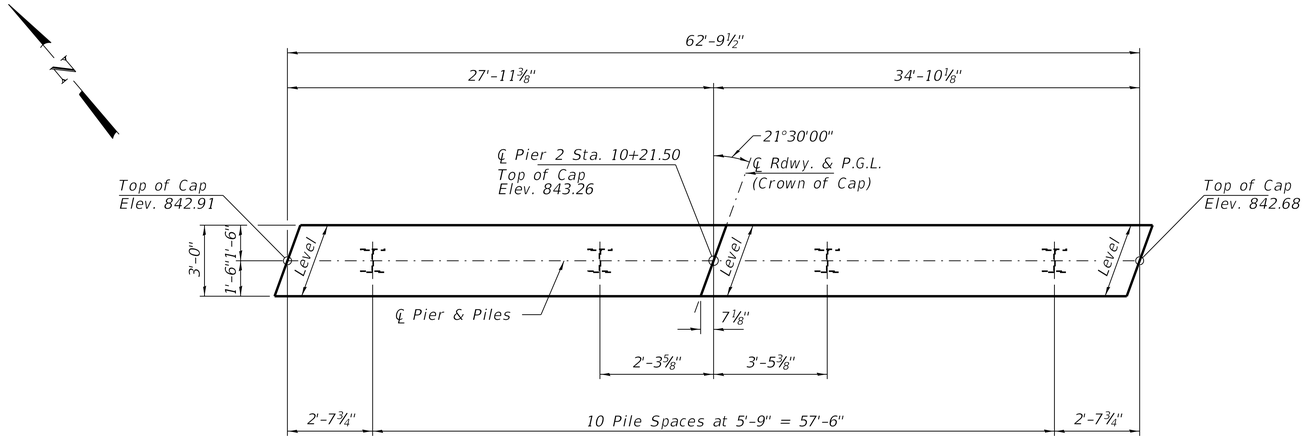
For details of piles see Structural sheet S25 of S38.
* See Structure sheet S20 for bar details.

FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. ELGIN · SPRINGFIELD CRYSTAL LAKE . MT CARMEL ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.M.S	REVISED -
	PLOT SCALE =	DRAWN - S.S.	REVISED -
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -

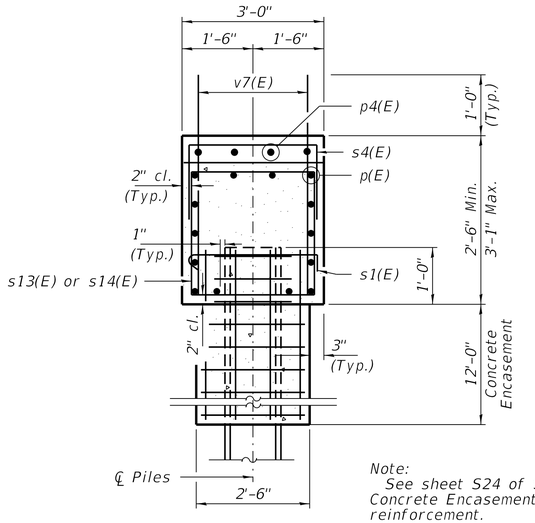
STATE OF ILLINOIS
CITY OF DEKALB

PIER 1
N. 1ST ST. - STRUCTURE NO. 019-6108
SHEET NO. S22 OF S38 SHEETS

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	95
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		



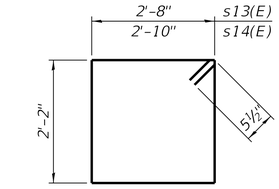
PLAN



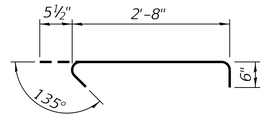
Note:
See sheet S24 of S38 for Concrete Encasement reinforcement.

SECTION B-B

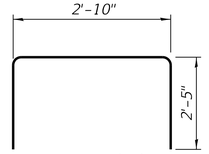
Dimensions at right ∠'s to Pier.



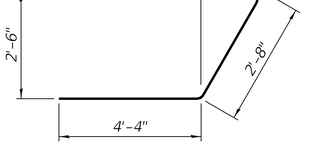
BARS s13(E) & s14(E)



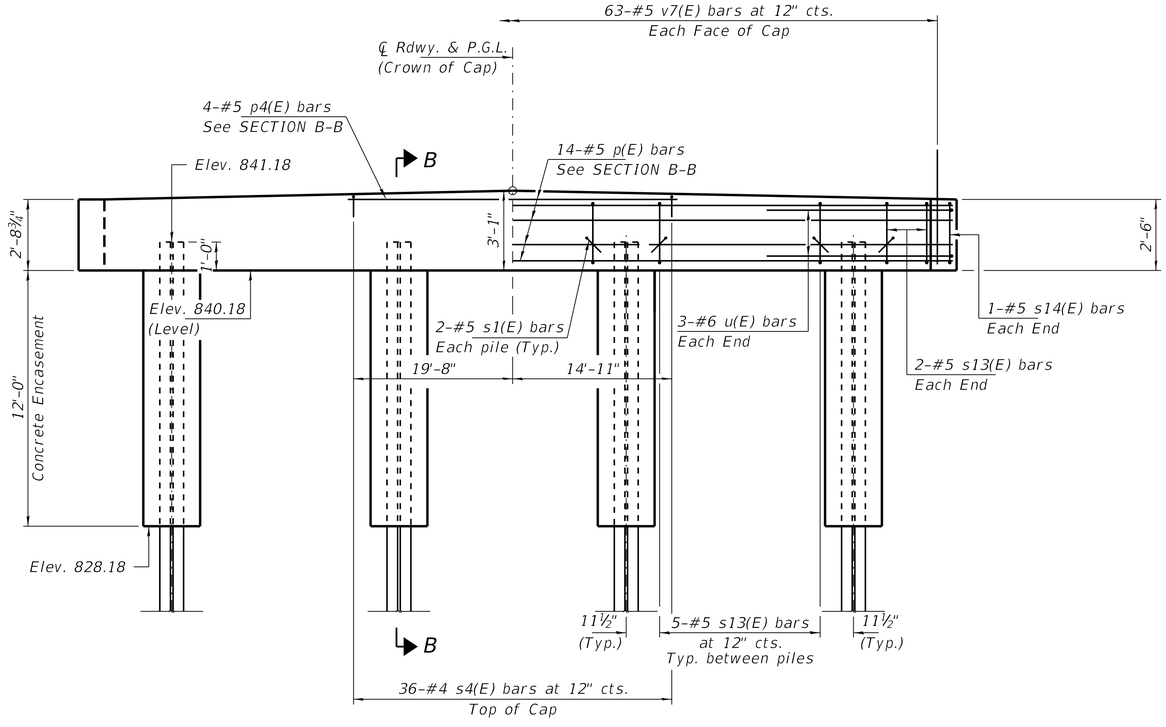
BAR s1(E)



BAR s4(E)



BAR u(E)



ELEVATION

(Looking North)

PILE DATA

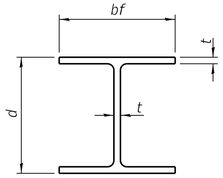
Type: Steel HP 14x89
Nominal Required Bearing: 288^{k}
Factored Resistance Available: 158^{k}
Est. Length: 53 ft.
No. Production Piles: 10
No. Test Piles: 1

BILL OF MATERIAL - PIER 2

	BAR	NO.	SIZE	LENGTH	SHAPE
	p(E)	14	#7	62'-5"	
	p4(E)	4	#5	34'-7"	
*	s1(E)	16	#5	3'-8"	
*	s4(E)	36	#4	7'-8"	
**	s13(E)	54	#5	10'-7"	
**	s14(E)	2	#5	10'-11"	
*	u(E)	6	#6	11'-4"	
	v7(E)	126	#5	3'-4"	

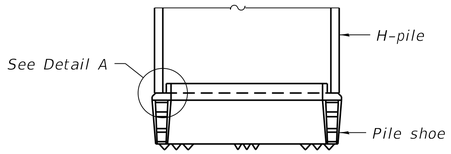
Concrete Structures	Cu. Yd.	19.9
Concrete Encasement	Cu. Yd.	23.1
Reinf. Bars, Epoxy Coated	Pound	3,340
Furnishing Steel Piles HP14x89	Foot	530
Driving Piles	Foot	530
Test Pile Steel HP14x89	Each	1

For details of piles see Structural sheet S25 of S38.
* See Structure sheet S20 for bar details.
** See Structure sheet S23 for bar details.

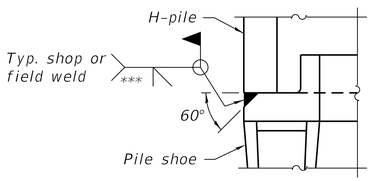


STEEL PILE TABLE

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



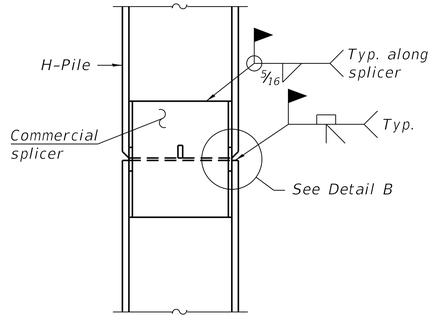
ELEVATION



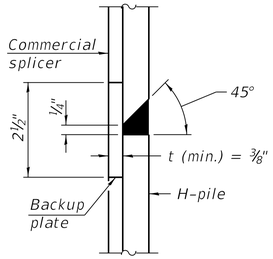
DETAIL A

SHOE ATTACHMENT

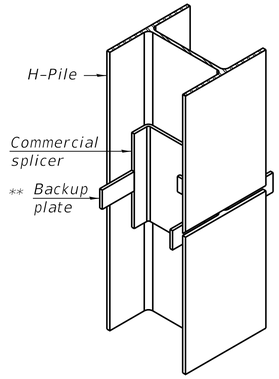
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

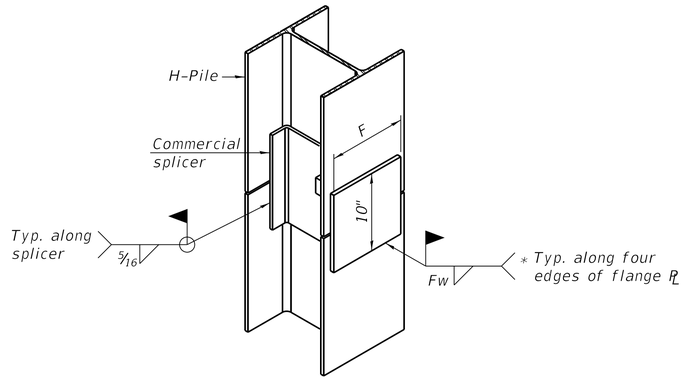


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



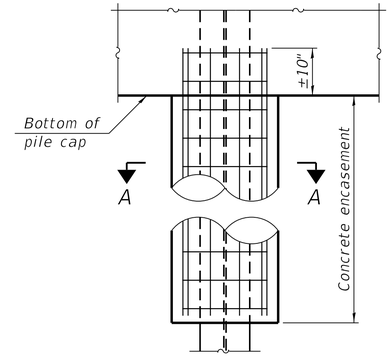
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

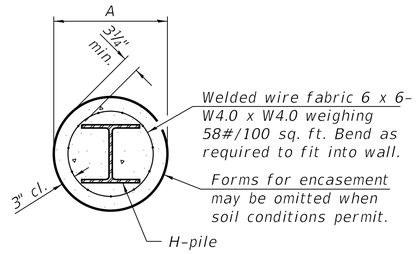
* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).



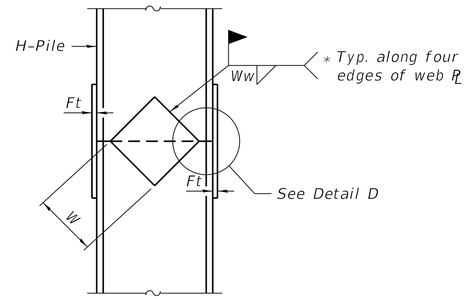
ELEVATION



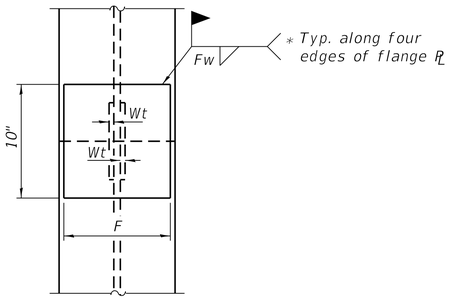
SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASEMENT

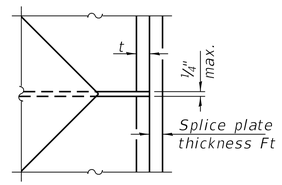
(when specified)



ELEVATION



END VIEW



DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

F-HP 1-1-2020

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 1 of 3

Client: Hampton Lenzini and Renwick
Project Name: North 1st Street
Project Site: South Branch Kishwaukee River
DeKalb, Illinois

Boring No. B-1
Surface Elev. 844.50
Auger Depth 51ft Rotary Depth NA
Start Date 01/09/21 Finish Date 01/09/21

Location: Centerline Station 10+52

DRILLED BY: Jeff Safranski, Diedrich D-50 Turbo

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
844.50										
843.50	7.5" Bituminous 16" Aggregate	1								
842.50		2								
841.50	Stiff Black And Brown Clay (Fill)	3	1	SS	1.3	10	B	16		
840.50		4								
839.50		5	2	SS	1.6	12	B	13		
838.50		6								
837.50		7								
836.50		8	3	SS	1.1	8	B	15		
835.50	Stiff Brownish Clay Loam	9								
834.50		10	4	SS	1.4	10	S	13		
833.50		11								
832.50		12								
831.50	Medium Brown Fine Sand And Gravel	13	5	SS	---	13	---	---		Water
830.50		14								
829.50		15	6	SS	2.1	12	B	13		
828.50		16								
827.50	Very Stiff Pink To Brownish Gray Clay Till	17								
826.50		18	7	SS	2.1	13	B	13		
825.50		19								
824.50		20	8	SS	2.0	13	B	12		

Groundwater Data: Static Water Table After Auger Removal Elevation 818.0
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 2 of 3

Client: Hampton Lenzini and Renwick
Project Name: North 1st Street
Project Site: South Branch Kishwaukee River
DeKalb, Illinois

Boring No. B-1
Surface Elev. 844.50
Auger Depth 51ft Rotary Depth NA
Start Date 01/09/21 Finish Date 01/09/21

Location: Centerline Station 10+52

DRILLED BY: Jeff Safranski, Diedrich D-50 Turbo

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
823.50										
822.50	7.5" Bituminous 16" Aggregate	22								
821.50		23	9	SS	2.2	12	B	12		
820.50	Very Stiff Brownish Gray Clay Till	24								
819.50		25								
818.50		26	10	SS	2.4	13	B	12		
817.50		27								
816.50		28	11	SS	2.5	13	B	11		
815.50		29								
814.50		30								
813.50		31	12	SS	3.0	17	S	10		
812.50		32								
811.50		33								
810.50		34								
809.50	Very Stiff Gray And Brownish Gray Clay Till	35								
808.50		36	13	SS	2.7	16	B	12		
807.50		37								
806.50		38								
805.50		39								
804.50		40								
803.50		41	14	SS	2.5	15	B	11		

Groundwater Data: Static Water Table After Auger Removal Elevation 818.0
Comments:

BORING

FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS CITY OF DEKALB	BORINGS N. 1ST ST. - STRUCTURE NO. 019-6108 SHEET NO. S25 OF S38 SHEETS
HAMPTON, LENZINI AND RENWICK, INC. ELGIN . SPRINGFIELD CRYSTAL LAKE . MT CARMEL ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.M.S	REVISED -		
	PLOT SCALE =	DRAWN - S.S.	REVISED -		
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -		

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	98
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 3 of 3

Client: Hampton Lenzini and Renwick
Project Name: North 1st Street
Project Site: South Branch Kishwaukee River
DeKalb, Illinois

Boring No. B-1
Surface Elev. 844.50
Auger Depth 51ft Rotary Depth NA
Start Date 01/09/21 Finish Date 01/09/21

Location: Centerline Station 10+52

DRILLED BY: Jeff Safranski, Diedrich D-50 Turbo

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
802.50										
801.50	7.5" Bituminous 16" Aggregate	43								
800.50		44								
799.50		45								
798.50	Very Stiff Brownish Gray Clay Till	46	14	SS	2.6	14	B	12		
797.50		47								
796.50		48								
795.50		49								
794.50		50								
793.50		51	15	SS	2.4	14	B	12		
792.50	Bottom OF Boring	52								
791.50		53								
790.50		54								
789.50		55								
788.50		56								
787.50		57								
786.50		58								
785.50		59								
784.50		60								
783.50		61								
782.50		62								

Groundwater Data: Static Water Table After Auger Removal Elevation 818.0
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 1 of 3

Client: Hampton Lenzini and Renwick
Project Name: North 1st Street
Project Site: South Branch Kishwaukee River
Dekalb, Illinois

Boring No. B-2
Surface Elev. 844.20
Auger Depth 51ft Rotary Depth NA
Start Date 01/09/21 Finish Date 01/09/21

Location: Centerline Station 9+52

DRILLED BY: Jeff Safranski, Diedrich D-50 Turbo

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
844.20										
843.20	7.5" Bituminous 16" Aggregate	1								
842.20		2								
841.20	Stiff Black & Brown Clay Fill	3	1	SS	1.7	11	B	16		
840.20		4								
839.20		5	2	SS	2.1	9	B	15		
838.20		6								
837.20		7								
836.20	Stiff Gray And Brownish Gray Clay	8	3	SS	1.4	9	B	18		
835.20		9								
834.20		10								
833.20		11	4	SS	1.6	9	B	15		
832.20		12								
831.20		13	5	SS	---	16	---	---		← Water
830.20		14								
829.20	Medium Brown Fine to Coarse Gravel	15	6	SS	---	24	---	---		
828.20		16								
827.20		17								
826.20		18	7	SS	2.3	14	B	11		
825.20	Very Stiff Brownish Gray Clay	19								
824.20		20	8	SS	2.7	15	B	12		

Groundwater Data: Static Water Table After Auger Removal Elevation 818.0
Comments:

BORING

FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	STATE OF ILLINOIS CITY OF DEKALB	BORINGS N. 1ST ST. - STRUCTURE NO. 019-6108 SHEET NO. S26 OF S38 SHEETS
HAMPTON, LENZINI AND RENWICK, INC. ELGIN . SPRINGFIELD CRYSTAL LAKE . MT CARMEL ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.M.S	REVISED -		
	PLOT SCALE =	DRAWN - S.S.	REVISED -		
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -		

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	99
		CONTRACT NO. 87779		
	ILLINOIS	FED. AID PROJECT		

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 2 of 3

Client: Hampton Lenzini and Renwick
Project Name: North 1st Street
Project Site: South Branch Kishwaukee River
Dekalb, Illinois

Boring No. B-2
Surface Elev. 844.20
Auger Depth 51ft Rotary Depth NA
Start Date 01/09/21 Finish Date 01/09/21

Location: Centerline Station 9+52

DRILLED BY: Jeff Safranski, Diedrich D-50 Turbo

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
823.20	7.5" Bituminous 16" Aggregate		22								
822.20			23	9	SS	2.3	13	B	11		
821.20			24								
820.20	Very Stiff Brownish Gray Clay Till		25	10	SS	2.5	14	B	12		
819.20			26								
818.20			27	11	SS	2.8	14	B	12		
817.20			28								
816.20			29								
815.20			30	12	SS	3.1	21	S	10		
814.20			31								
813.20			32								
812.20			33								
811.20			34								
810.20			35								
809.20	Very Stiff Gray To Brownish Gray Clay Till		36	13	SS	2.6	16	B	12		
808.20			37								
807.20			38								
806.20			39								
805.20			40								
804.20			41	14	SS	2.7	16	B	12		
803.20											

Groundwater Data: Static Water Table After Auger Removal Elevation 818.0
Comments:

Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354
Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 3 of 3

Client: Hampton Lenzini and Renwick
Project Name: North 1st Street
Project Site: South Branch Kishwaukee River
Dekalb, Illinois

Boring No. B-2
Surface Elev. 844.20
Auger Depth 51ft Rotary Depth NA
Start Date 01/09/21 Finish Date 01/09/21

Location: Centerline Station 9+52

DRILLED BY: Jeff Safranski, Diedrich D-50 Turbo

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
802.20	7.5" Bituminous 16" Aggregate		43								
801.20			44								
800.20	Very Stiff Brownish Gray Clay Till		45	14	SS	2.5	15	B	12		
799.20			46								
798.20			47								
797.20			48								
796.20			49								
795.20			50	15	SS	2.4	14	B	12		
794.20			51								
793.20	Bottom Of Boring		52								
792.20			53								
791.20			54								
790.20			55								
789.20			56								
788.20			57								
787.20			58								
786.20			59								
785.20			60								
784.20			61								
783.20			62								
782.20											

Groundwater Data: Static Water Table After Auger Removal Elevation 818.0
Comments:

BORING

FILE NAME = 200251-sht-bridge NFS.dgn	USER NAME = steves	DESIGNED - I.P.N.	REVISED -	**STATE OF ILLINOIS** **CITY OF DEKALB**
HAMPTON, LENZINI AND RENWICK, INC. ELGIN . SPRINGFIELD CRYSTAL LAKE . MT CARMEL ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.M.S	REVISED -	**BORINGS** **N. 1ST ST. - STRUCTURE NO. 019-6108** SHEET NO. S27 OF S38 SHEETS
	PLOT SCALE =	DRAWN - S.S.	REVISED -	
	PLOT DATE = 5/13/2022	CHECKED - I.P.N.	REVISED -	

F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5352	18-00193-00-BR	DEKALB	133	100
		CONTRACT NO. 87779		
		ILLINOIS	FED. AID PROJECT	