03-11-2022 LETTING ITEM 108

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR,BRR	LIVINGSTON	49	1
	ILLINOIS	CONTRACT NO. 66L75		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

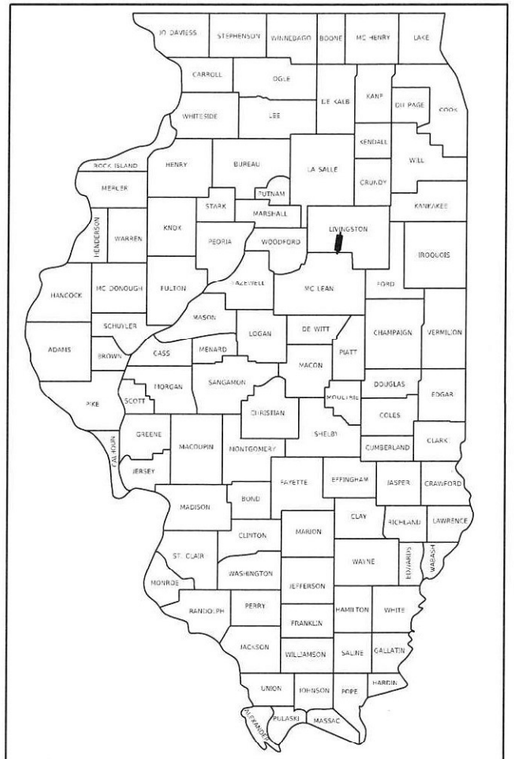
PROPOSED HIGHWAY PLANS

F.A.I. ROUTE 55 (I–55)
SECTION (53–6B)BJR,BRR
PROJECT: NHPP-1468(097)
BRIDGE REPAIRS
OVER ROOKS CREEK
LIVINGSTON COUNTY

C–93–071–21

R5E, 3RD PM

D–93–037–21



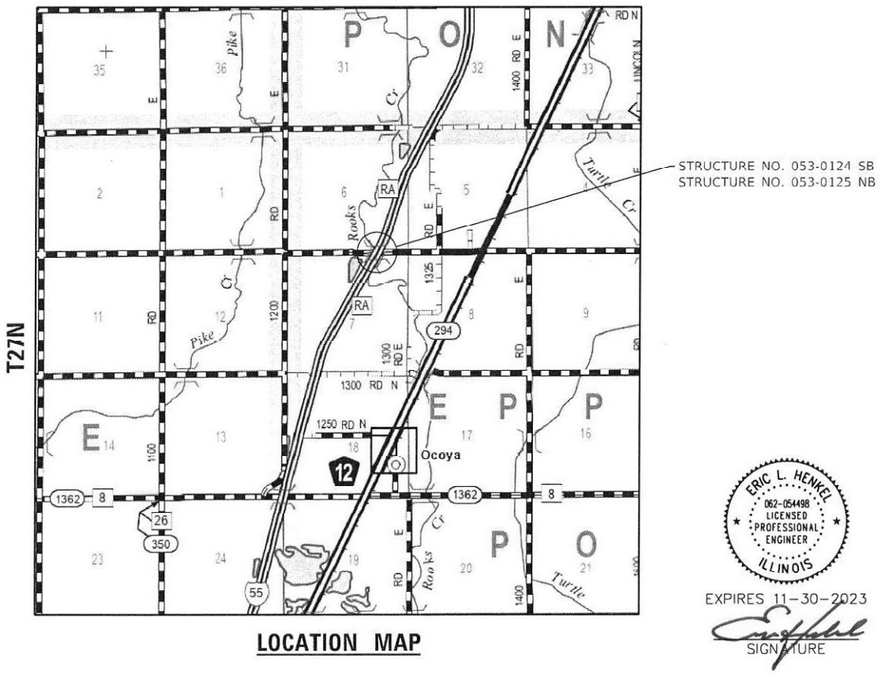
LOCATION OF SECTION INDICATED THUS: –■–

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	GENERAL NOTES
3.-7.	SUMMARY OF QUANTITIES
8.-9.	TYPICAL SECTIONS
10.-11.	SCHEDULES OF QUANTITIES
12.	REMOVAL PLAN
13.-15.	TRAFFIC CONTROL
16.-45.	SN 053-0124/0125 BRIDGE PLANS
46.-49.	DETAILS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
642001-03	SHOULDER RUMBLE STRIPS, 16 INCH
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701406-13	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS ≥ 45 MPH
701426-09	LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS



LOCATION MAP

GROSS LENGTH = 557.51 FT. = 0.106 MILE
NET LENGTH = 557.51 FT. = 0.106 MILE

FUNCTIONAL CLASSIFICATION: INTERSTATE
ADT NB: 10250 (2019), 27% TRUCKS
ADT SB: 10250 (2019), 27% TRUCKS

TOWNSHIP: EPPARDS POINT

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

ESCA CONSULTANTS, INC.
CIVIL & STRUCTURAL ENGINEERS

ESCA PROJECT NO. 1321.10

ERIC L. HENKEL
062-054498
LICENSED PROFESSIONAL ENGINEER
ILLINOIS

EXPIRES 11–30–2023

SIGNATURE

12–09–21
DATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 17, 20 21

REGIONAL ENGINEER

February 4 20 22

ENGINEER OF DESIGN AND ENVIRONMENT

February 4 20 22

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PROJECT ENGINEER: JACOB OYIER, P.E.
UNIT CHIEF: STEPHENIE CARMIN
DISTRICT 3 NO. (815) 434–6131

CONTRACT NO. 66L75

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. 1/24/22

GENERAL NOTES

1. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION 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 SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

2. BEFORE ORDERING PIPE CULVERT INSERTION LINERS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS AND DIAMETERS.

3. THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

4. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

HMA RESURFACING	112	LBS / SQ YD / IN
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD

5. RUMBLE STRIPS SHALL BE INSTALLED ON ALL SHOULDERS OFF OF THE BRIDGES. HOWEVER, THE STRIPS SHALL NOT BE INSTALLED UNTIL AFTER THE SHOULDER IS NO LONGER NEEDED TO ACCOMMODATE STAGE TRAFFIC.

6. ANY TEMPORARY RAMPS REQUIRED ARE INCLUDED IN THE COST OF HOT-MIX ASPHALT SURFACE REMOVAL.

7. DO NOT GROOVE FOR PAVEMENT MARKING OVER THE BRIDGES.

HMA MIXTURE REQUIREMENT TABLE

LOCATIONS:	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA SURFACE COURSE	HMA SHOULDER BOTTOM LIFT(S)	HMA SHOULDER TOP LIFT (2")
BINDER GRADE (PG):	SBS PG 70-28	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N90	4.0% @ N70	4.0% @ N70
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL-9.5	IL-19.0	IL-9.5
FRICTION AGGREGATE:	MIXTURE D	N/A	MIXTURE C
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	NA	NA	NA
DENSITY TEST METHOD:	CORES	CORES	CORES
MATEERIAL TRANSFER DEVICE (REQUIRED):	NO	NO	NO

COMMITMENTS

1. THE ENGINEER SHALL RECORD FINAL LOCATIONS AND QUANTITIES OF DECK SLAB REPAIR (FULL DEPTH, TYPE I), DECK SLAB REPAIR (FULL DEPTH, TYPE II), AND STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) ON "AS-BUILT" DETAIL SHEETS AND SUBMIT THEM TO THE BRIDGE OFFICE IN SPRINGFIELD FOR THEIR RECORDS IN A TIMELY MANNER AFTER PROJECT COMPLETION. CONTACT PERSON IS VICTOR VELIZ, PHONE (217)782-2708.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES OF CONSTRUCTION:

INSPECTORS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY:

DISTRICT STUDIES & PLANS ENGINEER

DATE:

EXAMINED BY:

DISTRICT CONSTRUCTION ENGINEER

DISTRICT MATERIALS ENGINEER

DISTRICT OPERATIONS ENGINEER

MODEL: PLOT
FILE NAME: Y:\IDOT\1321-10_66L75\CADD\Highway\CADD Sheets\D366L75-sht-qenmore91.dgn

ESCA CONSULTANTS, INC.

USER NAME = nhc	DESIGNED - ELH	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**GENERAL NOTES**	
ESCA PROJECT NO. 1321.10	DRAWN - NHC	REVISED -			
PLOT SCALE = 0.1667 ' / in.	CHECKED - ELH	REVISED -			
PLOT DATE = 12/7/2021	DATE - 11/21	REVISED -		SCALE: NA | SHEET 1 OF 1 SHEETS | STA. | TO STA.	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR,BRR	LIVINGSTON	49	2
		CONTRACT NO. 66L75		
	ILLINOIS | FED. AID PROJECT			

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	90% FEDERAL 10% STATE TOTAL QUANTITY	BRIDGE 0047 S.N. 053-0124	BRIDGE 0047 S.N. 053-0125
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1784	892	892
40600370	LONGITUDINAL JOINT SEALANT	FOOT	376	188	188
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	1.2	0.6	0.6
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	214	107	107
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	228	114	114
40604064	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90	TON	88	44	44
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1½"	SQ YD	1004	502	502
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	1068	534	534
44000173	HOT-MIX ASPHALT SURFACE REMOVAL, 6"	SQ YD	944	472	472
44213000	PATCHING REINFORCEMENT	SQ YD	128	64	64
44213200	SAW CUTS	FOOT	336	168	168
44213204	TIE BARS ¾"	EACH	368	184	184
50102400	CONCRETE REMOVAL	CU YD	28.8	14.4	14.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	28.8	14.4	14.4
50300300	PROTECTIVE COAT	SQ YD	2416	1208	1208

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	90% FEDERAL 10% STATE TOTAL QUANTITY	BRIDGE 0047 S.N. 053-0124	BRIDGE 0047 S.N. 053-0125
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3840	1920	1920
50800515	BAR SPLICERS	EACH	48	24	24
52000110	PREFORMED JOINT STRIP SEAL	FOOT	192	96	96
54390230	INSERTION CULVERT LINER 36"	FOOT	451	298	153
59000200	EPOXY CRACK INJECTION	FOOT	286	118	168
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	2120	1060	1060
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	2.5	2.5
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	2	1	1
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2	1	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	4	2	2
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	0.5	0.5
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	5	5
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	10	5	5
70300100	SHORT TERM PAVEMENT MARKING	FOOT	820	408	412

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	UNIT	90% FEDERAL 10% STATE TOTAL QUANTITY	BRIDGE 0047 S.N. 053-0124	BRIDGE 0047 S.N. 053-0125
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	274	136	138
	70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	12310	6110	6200
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	1150	575	575
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1050	525	525
	70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	1	1
	70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	1	1
*	78003131	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - STANDARD - LINE 6"	FOOT	1260	630	630
*	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	9800	4900	4900
*	78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	1250	580	670
*	78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	8672	4336	4336
*	78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	1100	550	550
*	78011045	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	1250	580	670
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8	4	4
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	5	2	3
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	6270	3089	3181

* SPECIALITY ITEM

MODEL: PLOT
FILE NAME: Y:\DOT\1321-10 66L75\CADD\Highway\CADD Sheets\D366L75-sht-SD003.dgn

ESCA CONSULTANTS, INC. CIVIL & STRUCTURAL ENGINEERS

USER NAME = nhc	DESIGNED - ELH	REVISED -	
ESCA PROJECT NO. 1321.10	DRAWN - NHC	REVISED -	
PLOT SCALE = 0.1667 ' / in.	CHECKED - ELH	REVISED -	
PLOT DATE = 12/7/2021	DATE - 11/21	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NA | SHEET 3 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR,BRR	LIVINGSTON	49	5
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		

REV. 2/4/22

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	90% FEDERAL 10% STATE TOTAL QUANTITY	BRIDGE 0047 S.N. 053-0124	BRIDGE 0047 S.N. 053-0125
X0323491	SLOPE WALL CRACK SEALING	FOOT	397	158	239
X0326394	FLOOR DRAINS TO BE CLEANED	EACH	124	62	62
X2700001	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	2	1	1
X4420569	CLASS A PATCHES, TYPE III, 11 INCH (SPECIAL)	SQ YD	128	64	64
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1498	749	749
Z0006018	BRIDGE DECK LATEX CONCRETE OVERLAY, 3 INCHES	SQ YD	2342	1171	1171
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1	
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1		1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1	
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1		1
Z0012146	BRIDGE DECK SCARIFICATION 2 3/4"	SQ YD	2342	1171	1171
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	203	90	113
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	15	9	6
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	54	20	34
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	2150	1075	1075

SUMMARY OF QUANTITIES

			90% FEDERAL 10% STATE		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0047 S.N. 053-0124	BRIDGE 0047 S.N. 053-0125
Z0065700	SLOPE WALL REPAIR	SQ YD	84	52	32
Z0065730	SLOPE WALL SLURRY PUMPING	CU YD	55	34	21

MODEL: PLOT
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ESCA CONSULTANTS, INC.

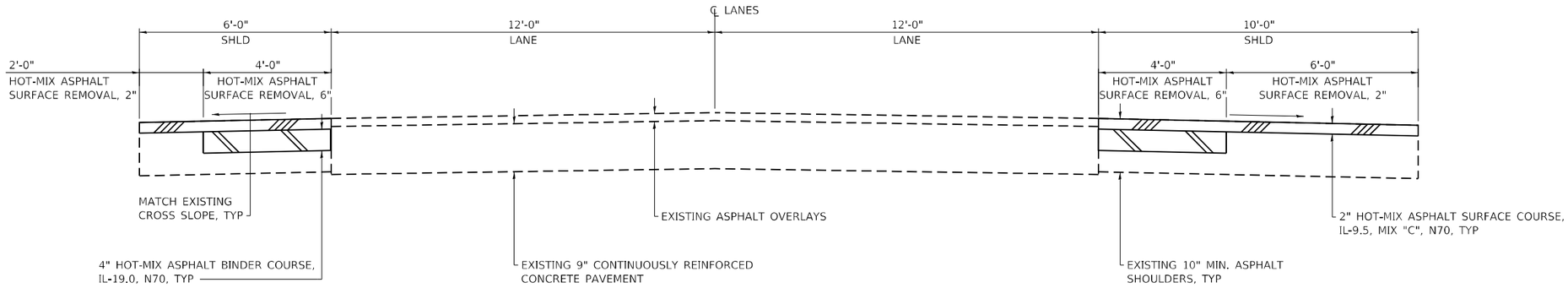
USER NAME = nhc	DESIGNED - ELH	REVISED -	
ESCA PROJECT NO. 1321.10	DRAWN - NHC	REVISED -	
PLOT SCALE = 0.1667 ' / in.	CHECKED - ELH	REVISED -	
PLOT DATE = 12/7/2021	DATE - 11/21	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

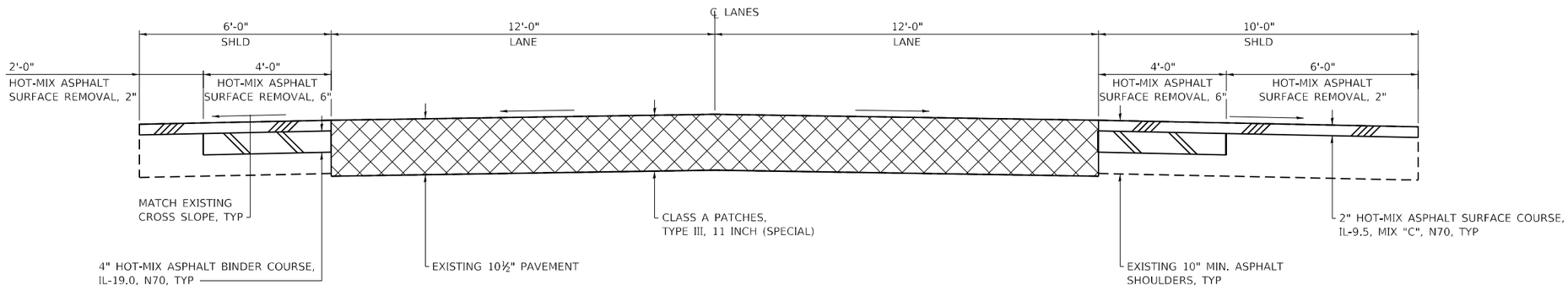
SCALE: NA | SHEET 5 OF 5 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR,BRR	LIVINGSTON	49	7
		CONTRACT NO. 66L75		
	ILLINOIS FED. AID PROJECT			



SECTION ①–①

STA 752+55.85 TO STA 755+17.55 NB
STA 760+10.39 TO STA 762+06.69 NB
STA 753+85.91 TO STA 755+82.21 SB
STA 760+75.05 TO STA 763+36.75 SB



SECTION ②–②

STA 755+17.55 TO STA 755+29.55 NB
STA 759+98.39 TO STA 760+10.39 NB
STA 755+82.21 TO STA 755+94.21 SB
STA 760+63.05 TO STA 760+75.05 SB

NOTES: 1. SEE REMOVAL PLAN SHEET 12 FOR SECTION LOCATIONS

2. EXISTING GUARDRAIL NOT SHOWN

3. STATIONS ARE THEORETICAL; BASED ON OLD PLANS

MODEL: PLOT
FILE NAME: Y:\IDOT\1321-10_66L75\CADD\Highway\CADD Sheets\D366L75-sht-typical01.dgn

ESCA CONSULTANTS, INC.

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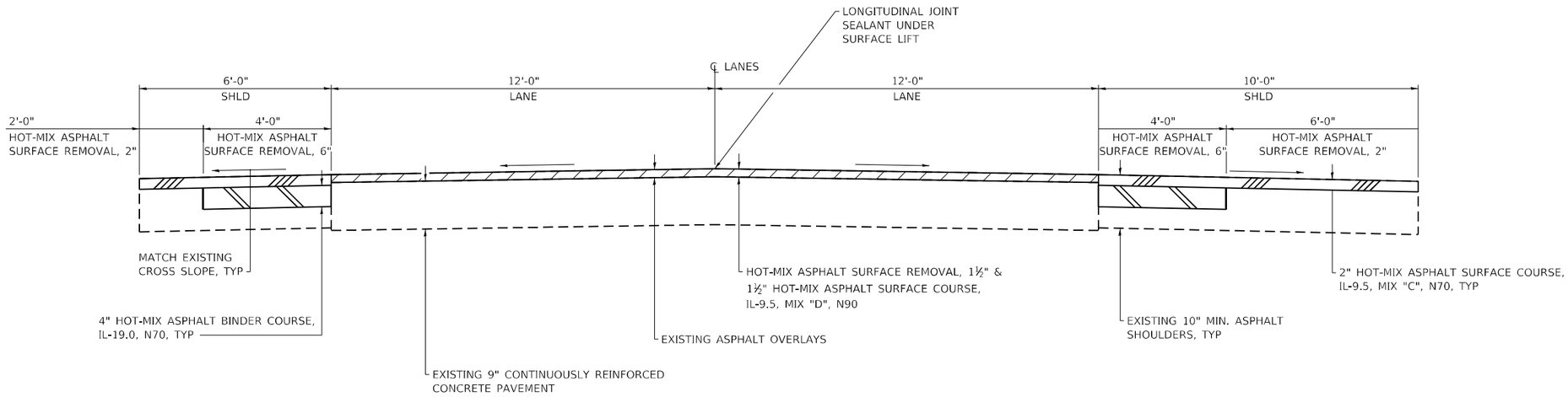
PLOT DATE = 12/7/2021	DATE - 11/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR,BRR	LIVINGSTON	49	8
		CONTRACT NO. 66L75		
	ILLINOIS FED. AID PROJECT			



SECTION ③–③

STA 755+29.55 TO STA 756+23.55 NB
STA 759+04.39 TO STA 759+98.39 NB
STA 755+94.21 TO STA 756+88.21 SB
STA 759+69.05 TO STA 760+63.05 SB

NOTES: 1. SEE REMOVAL PLAN SHEET 12 FOR SECTION LOCATIONS

2. EXISTING GUARDRAIL NOT SHOWN

3. STATIONS ARE THEORETICAL; BASED ON OLD PLANS

MODEL: PLOT
FILE NAME: Y:\IDOT\1321-10_66L75\CADD\Highway\CADD Sheets\D366L75-sht-typical02.dgn

ESCA CONSULTANTS, INC.

USER NAME = nhc	DESIGNED - ELH	REVISED -
ESCA PROJECT NO. 1321.10	DRAWN - NHC	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 12/7/2021	DATE - 11/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR,BRR	LIVINGSTON	49	9
		CONTRACT NO. 66L75		
	ILLINOIS FED. AID PROJECT			

HOT–MIX ASPHALT SURFACE REMOVAL SCHEDULE

LOCATION	LENGTH	WIDTH	AREA	HOT-MIX ASPHALT SURFACE REMOVAL, 1½"	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	HOT-MIX ASPHALT SURFACE REMOVAL, 6"
	FOOT	FOOT	SQ FT	SQ YD	SQ YD	SQ YD
NORTHBOUND						
NORTH OF SN 053-0125						
DRIVING LANE SHOULDER	312.1	10	3121		209	138
TRAFFIC LANES	94	24	2256	251		
PASSING LANE SHOULDER	151.8	6	911		34	68
SOUTH OF SN 053-0125						
DRIVING LANE SHOULDER	357.9	10	3579		238	160
TRAFFIC LANES	94	24	2256	251		
PASSING LANE SHOULDER	238.3	6	1430		53	106
SOUTHBOUND						
NORTH OF SN 053-0124						
DRIVING LANE SHOULDER	357.9	10	3579		238	160
TRAFFIC LANES	94	24	2256	251		
PASSING LANE SHOULDER	238.3	6	1430		53	106
SOUTH OF SN 053-0124						
DRIVING LANE SHOULDER	312.1	10	3121		209	138
TRAFFIC LANES	94	24	2256	251		
PASSING LANE SHOULDER	151.8	6	911		34	68
TOTALS				1004	1068	944

SHORT TERM PAVEMENT MARKING SCHEDULE

LOCATION	DISTANCE	SHORT TERM PAVEMENT MARKING		SHORT TERM PAVEMENT MARKING REMOVAL
	FOOT	FOOT		SQ FT
		WHITE	YELLOW	
AT PAVEMENT MARKING REMOVAL LIMITS				
NORTHBOUND				
MAINLINE EDGE LINE	948	44		15
MAINLINE EDGE LINE	668		32	11
SKIP DASH CENTERLINE	1922	200		67
ENTRANCE RAMP GORE AREA EDGE LINE (2 LINES)	335	32		11
SOUTHBOUND				
MAINLINE EDGE LINE	948	44		15
MAINLINE EDGE LINE	668		32	11
SKIP DASH CENTERLINE	1922	200		67
ENTRANCE RAMP GORE AREA EDGE LINE (2 LINES)	290	28		9
AT IMPROVEMENTS				
NORTHBOUND				
MAINLINE EDGE LINE	494	24	24	16
SKIP DASH CENTERLINE	494	56		18
SOUTHBOUND				
MAINLINE EDGE LINE	494	24	24	16
SKIP DASH CENTERLINE	494	56		18
SUBTOTALS		708	112	274
TOTALS		820		274

PAVEMENT PATCHING SCHEDULE

LOCATION	LENGTH	WIDTH	AREA	CLASS A PATCHES, TYPE III, 11 INCH (SPECIAL)	PATCHING REINORCEMENT	SAW CUTS	TIE BARS ¾"
	FOOT	FOOT	SQ FT	SQ YD	SQ YD	FOOT	EACH
NORTHBOUND							
NORTH OF SN 053-0125	12	24	288	32	32	84	92
SOUTH OF SN 053-0125	12	24	288	32	32	84	92
SOUTHBOUND							
NORTH OF SN 053-0124	12	24	288	32	32	84	92
SOUTH OF SN 053-0124	12	24	288	32	32	84	92
TOTALS				128	128	336	368

PAVEMENT MARKING REMOVAL SCHEDULE

LOCATION	DISTANCE	PAVEMENT MARKING REMOVAL-WATER BLASTING
	FOOT	SQ FT
NORTHBOUND		
STAGE I		
WHITE EDGE LINE	948	316
WHITE SKIP DASH CENTERLINE	1500	195
STAGE II		
YELLOW EDGE LINE	386	129
WHITE SKIP DASH CENTERLINE	140	25
WHITE ENTRANCE RAMP EDGE LINE (2 LINES)	335	449
SOUTHBOUND		
STAGE I		
WHITE EDGE LINE	948	316
WHITE SKIP DASH CENTERLINE	1500	195
STAGE II		
YELLOW EDGE LINE	386	129
WHITE SKIP DASH CENTERLINE	140	25
WHITE ENTRANCE RAMP EDGE LINE (2 LINES)	290	387
TOTAL		2166

PAVEMENT MARKING SCHEDULE

LOCATION	DISTANCE	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"		PREFORMED PLASTIC PAVEMENT MARKING, TYPE B -STANDARD- LINE 6"	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	GROOVING FOR RECESSED PAVEMENT MARKING 5"	GROOVING FOR RECESSED PAVEMENT MARKING 7"	GROOVING FOR RECESSED PAVEMENT MARKING 9"	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT		PAVEMENT MARKING REMOVAL-WATER BLASTING
	FOOT	FOOT		FOOT	FOOT	FOOT	FOOT	FOOT	FOOT		SQ FT
		WHITE	YELLOW	WHITE	WHITE				WHITE	YELLOW	
NORTHBOUND											
MAINLINE EDGE LINE	2450	2450	2450			4336			2450	2450	1634
SKIP DASH CENTERLINE	2450			630			550		630		210
ENTRANCE RAMP GORE AREA EDGE LINE	335				670			670	670		223
SOUTHBOUND											
MAINLINE EDGE LINE	2450	2450	2450			4336			2450	2450	1634
SKIP DASH CENTERLINE	2450			630			550		630		210
ENTRANCE RAMP GORE AREA EDGE LINE	290				580			580	580		193
SUBTOTALS		4900	4900	1260	1250	8672	1100	1250	7410	4900	4104
TOTALS		9800		1260	1250	8672	1100	1250	12310		4104

RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE

LOCATION	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER
	EACH	EACH
NORTHBOUND		
NORTH OF SN 053-0125	2	2
SOUTH OF SN 053-0125	1	2
SOUTHBOUND		
NORTH OF SN 053-0124	1	2
SOUTH OF SN 053-0124	1	2
TOTALS	5	8

MODEL: PLOT
FILE NAME: Y:\IDOT\1321-10_66L75\CADD\Highway\CADD Sheets\D366L75-sht-sched001.dgn

ESCA CONSULTANTS, INC.

USER NAME = nhc	DESIGNED - ELH	REVISED -
ESCA PROJECT NO. 1321.10	DRAWN - NHC	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 12/7/2021	DATE - 11/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR,BRR	LIVINGSTON	49	10
		CONTRACT NO. 66L75		
	ILLINOIS FED. AID PROJECT			

STAGE CONSTRUCTION SCHEDULE

LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE) TEST LEVEL 3	TEMPORARY RUMBLE STRIPS (SPECIAL)
	FOOT	FOOT	EACH	EACH	EACH
NORTHBOUND					
STAGE I (SN 053-0125)	575		1		1
STAGE II (SN 053-0125)		525		1	
SOUTHBOUND					
STAGE I (SN 053-0124)	575		1		1
STAGE II (SN 053-0124)		525		1	
TOTALS	1150	1050	2	2	2

PERMANENT SURVEY MARKERS

GPS NUMBER	DESCRIPTION	EXISTING MONUMENT TYPE	PROPOSED MONUMENT TYPE	MONUMENT RECORD TO BE RECORDED	RESPONSIBILITY
N/A	NO PERMANENT SURVEY MARKERS OR SECTION	N/A	N/A	N/A	N/A
	CORNER MARKERS TO BE SET ON THIS JOB				

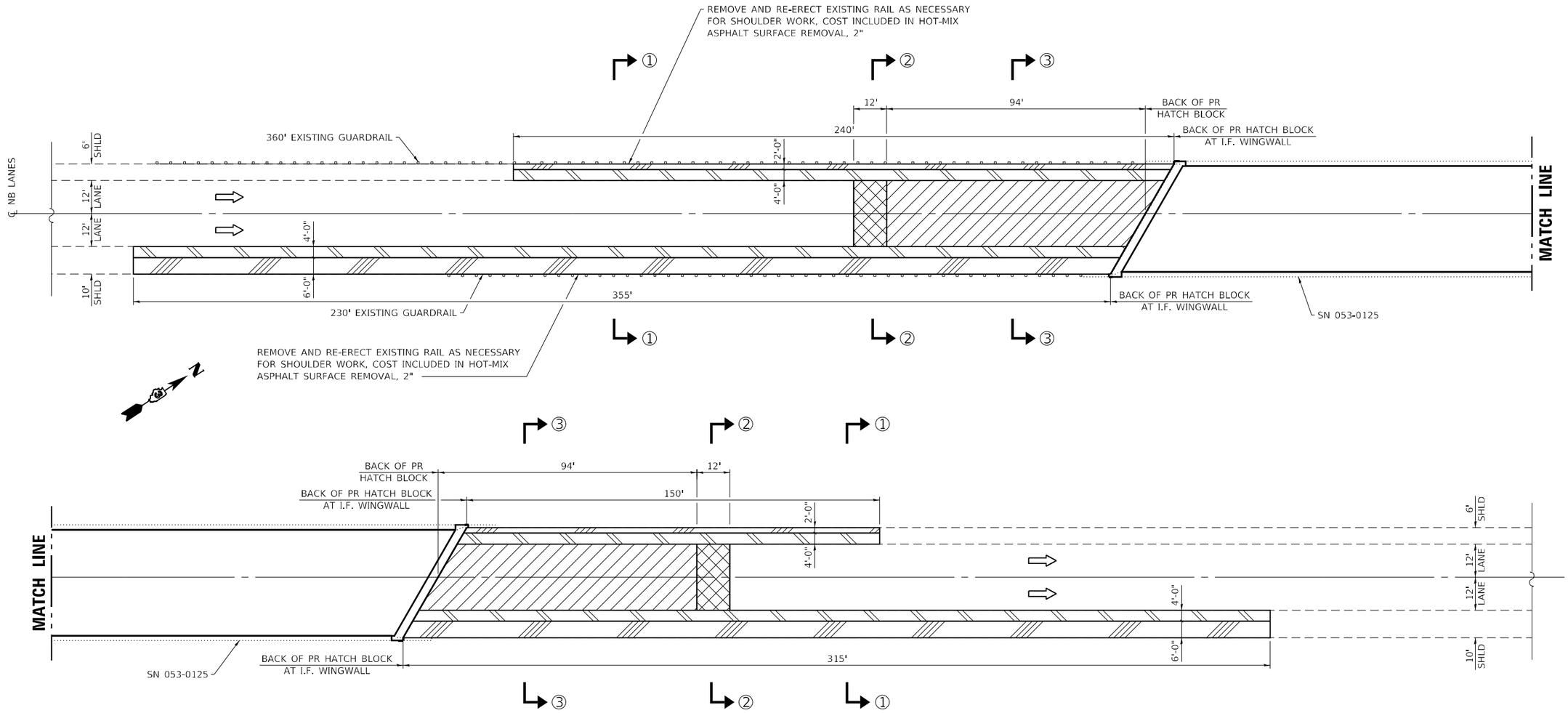
THERE ARE NO RECORD LAND SURVEY OR CENTERLINE CONTROL MONUMENTS LOCATED WITHIN THE CONSTRUCTION LIMITS.
UNKNOWN MONUMENTS SET BY OTHERS MAY EXIST. IF FOUND, THE R.E. MUST TIE AND REQUEST PLATS AND PLANS PERSONNEL TO GPS ANY MONUMENT(S) SUBJECT TO DAMAGE OR DESTRUCTION FROM THE STRUCTURE PRESERVATION PROJECT, AND INFORM THEM TO RESET THE MONUMENT(S) UPON JOB COMPLETION.
NO MONUMENT RECORDS WILL BE REQUIRED FOR THIS JOB.

PAVING SCHEDULE

LOCATION	LENGTH	WIDTH	AREA	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	BITUMINOUS MATERIALS (TACK COAT)	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	SHOULDER RUMBLE STRIPS, 16 INCH	LONGITUDINAL JOINT SEALANT
	FOOT	FOOT	SQ FT	TON	TON	TON	POUND	TON	FOOT	FOOT
NORTHBOUND										
NORTH OF SN 053-0125										
DRIVING LANE SHOULDER	312.1	10	3121		39	31	218	0.1	315	
TRAFFIC LANES	94	24	2256	22			113	0.1		94
PASSING LANE SHOULDER	151.8	6	911		12	16	77	0.1	150	
SOUTH OF SN 053-0125										
DRIVING LANE SHOULDER	357.9	10	3579		45	36	251	0.1	355	
TRAFFIC LANES	94	24	2256	22			113	0.1		94
PASSING LANE SHOULDER	238.3	6	1430		18	24	120	0.1	240	
SOUTHBOUND										
NORTH OF SN 053-0124										
DRIVING LANE SHOULDER	357.9	10	3579		45	36	251	0.1	355	
TRAFFIC LANES	94	24	2256	22			113	0.1		94
PASSING LANE SHOULDER	238.3	6	1430		18	24	120	0.1	240	
SOUTH OF SN 053-0124										
DRIVING LANE SHOULDER	312.1	10	3121		39	31	218	0.1	315	
TRAFFIC LANES	94	24	2256	22			113	0.1		94
PASSING LANE SHOULDER	151.8	6	911		12	16	77	0.1	150	
TOTALS				88	228	214	1784	1.2	2120	376

INSERTION CULVERT LINER SCHEDULE

LOCATION	INSERTION CULVERT LINER 36"
	FOOT
NEAR NORTH ABUTMENT SN 053-0125	153
NEAR SOUTH ABUTMENT SN 053-0124	149
NEAR SOUTH ABUTMENT SN 053-0124	149
TOTAL	451



REMOVAL PLAN

(NORTHBOUND SHOWN; SOUTHBOUND ROTATED 180°)

LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL, 1½" & 1½" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90
- HOT-MIX ASPHALT SURFACE REMOVAL, 2" & 2" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70
- CLASS A PATCHES, TYPE III, 11 INCH (SPECIAL)
- HOT-MIX ASPHALT SURFACE REMOVAL, 6" & 4" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 & 2" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70

NOTE: SEE SHEETS 8 & 9 FOR SECTIONS

MODEL: PLOT
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ESCA CONSULTANTS, INC.

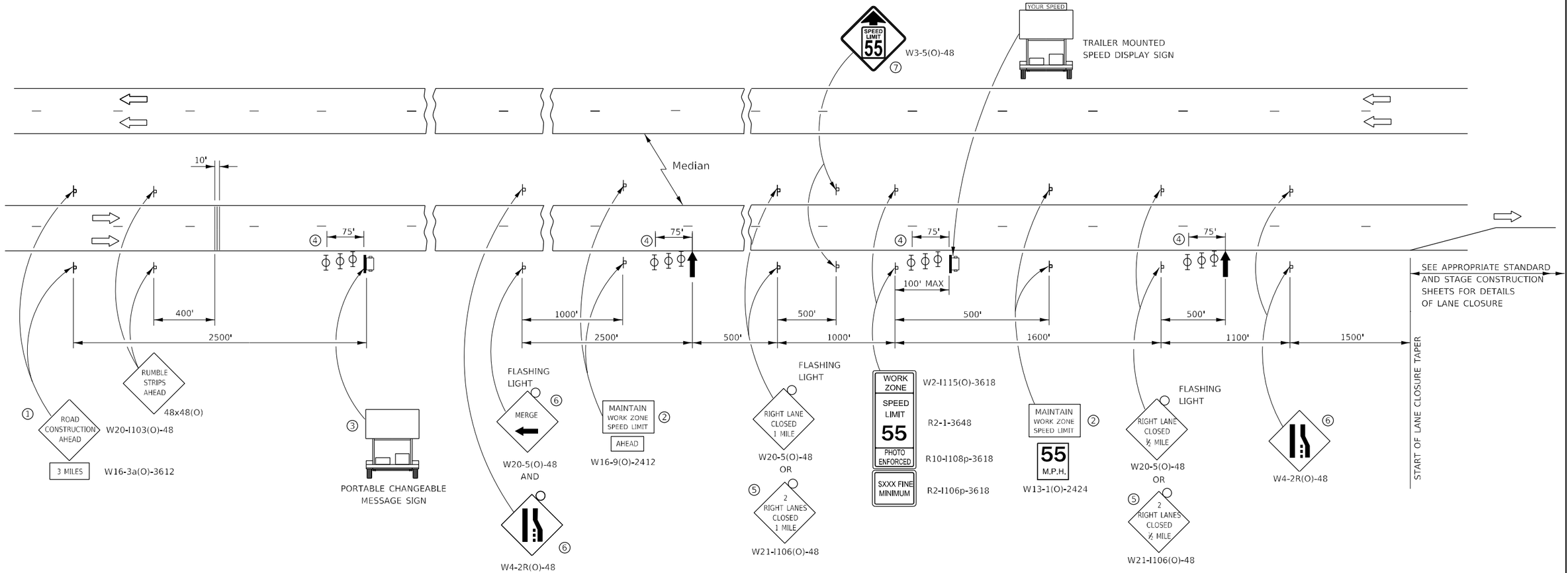
USER NAME = nhc	DESIGNED - ELH	REVISED -
ESCA PROJECT NO. 1321.10	DRAWN - NHC	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 12/7/2021	DATE - 11/21	REVISED -

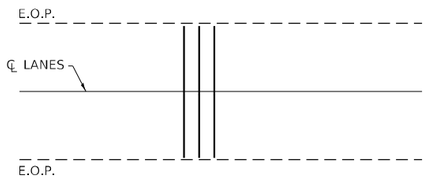
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR,BRR	LIVINGSTON	49	12
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		





TEMPORARYS RUMBLE STRIPS (SPECIAL)

① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 MILES IN ADVANCE OF THE PROJECT LIMITS.

② 48"X36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS

48"		
36"	MAINTAIN	8"
	WORK ZONE	6"
	SPEED LIMIT	6"

③ TO BE PLACED IN THE MEDIAN WHEN FEASIBLE. THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:
"RIGHT LANE CLOSED" / " x MILES AHEAD"
"LEFT LANE CLOSED" / " x MILES AHEAD"
"ALL LANES OPEN"

④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' CENTERS.

⑤ THIS SIGN SHALL BE USED WHEN 2 LANES ARE CLOSED.

⑥ WHEN THE LEFT LANE IS CLOSED, SWITCH THESE TWO SIGNS AND THE DIRECTION OF THE MERGE ARROW.

⑦ THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.

ARROW BOARD

PORTABLE CHANGEABLE MESSAGE SIGN

SIGN

TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT

GENERAL NOTE:

THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY.

WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

THE FIRST TWO SETS OF SIGNS AND THE MESSAGE BOARD ARE STATIONARY. THE OTHER SIGNS AND ARROWBOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

SEE SPECIAL PROVISIONS.

MODEL: PLOT
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ESCA CONSULTANTS, INC.

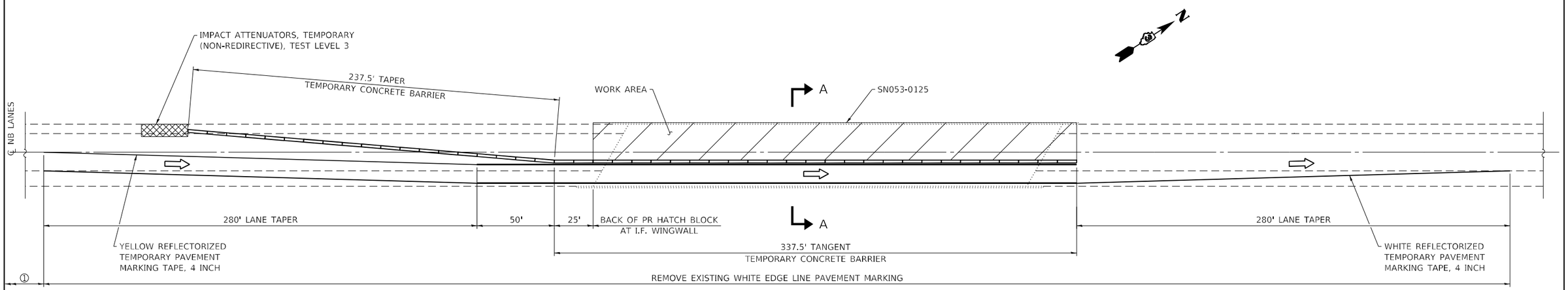
USER NAME = nhc	DESIGNED - ELH	REVISED -	
ESCA PROJECT NO. 1321.10	DRAWN - NHC	REVISED -	
PLOT SCALE = 0.1667 ' / in.	CHECKED - ELH	REVISED -	
PLOT DATE = 12/7/2021	DATE - 11/21	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION, STANDARD 701400 (SPECIAL)

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

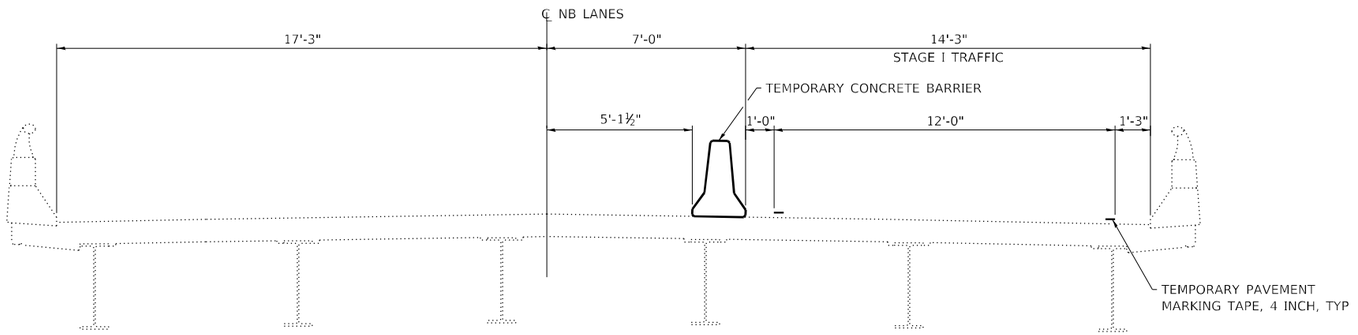
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR,BRR	LIVINGSTON	49	13
		CONTRACT NO. 66L75		
	ILLINOIS FED. AID PROJECT			



STAGE I PLAN

(NORTHBOUND SHOWN; SOUTHBOUND ROTATED 180°)

① REMOVE 1500' OF EXISTING WHITE SKIP DASH CENTERLINE PAVEMENT MARKING



SECTION A–A

STAGE I GENERAL NOTES

SEE HIGHWAY STANDARD 701402 FOR ADDITIONAL INFORMATION AND DETAILS.

THE COST OF INSTALLING AND REMOVING THE TEMPORARY PAVEMENT MARKING TAPE IS INCLUDED IN TRAFFIC CONTROL AND PROTECTION, STANDARD 701402. GUARDRAIL/BARRIER WALL REFLECTORS ARE ALSO INCLUDED IN THE COST OF STANDARD 701402.

TWO ROAD CONSTRUCTION AHEAD (W20-I103(0)-48), TWO YIELD AHEAD (W3-2(0)-48), AND TWO YIELD (R1-2-48) SIGNS SHALL BE PLACED AT EACH ENTRANCE RAMP AT THE REST AREAS. PAID FOR AS TRAFFIC CONTROL AND PROTECTION, STANDARD 701411.

MODEL: PLOT
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ESCA CONSULTANTS, INC.

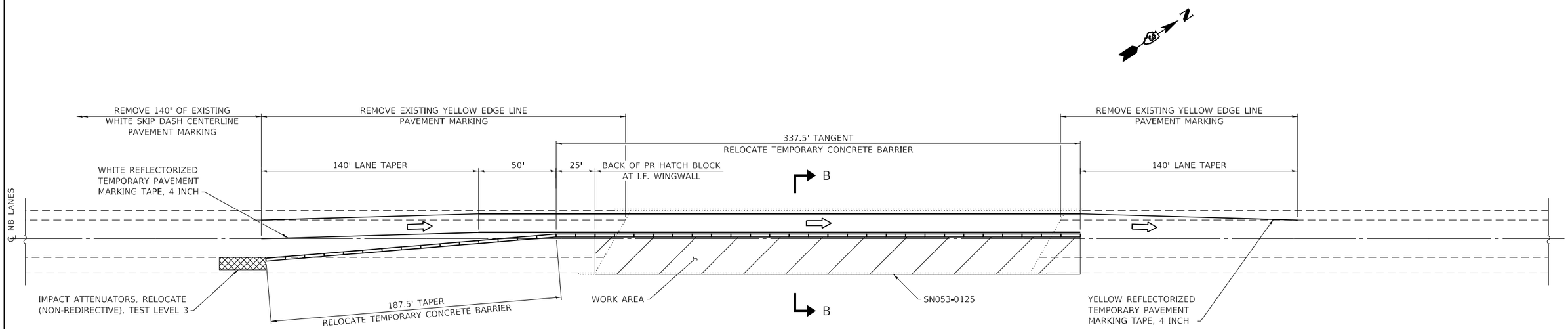
USER NAME = nhc	DESIGNED - ELH	REVISED -
ESCA PROJECT NO. 1321.10	DRAWN - NHC	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 12/7/2021	DATE - 11/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION, STANDARD 701402
STAGE I

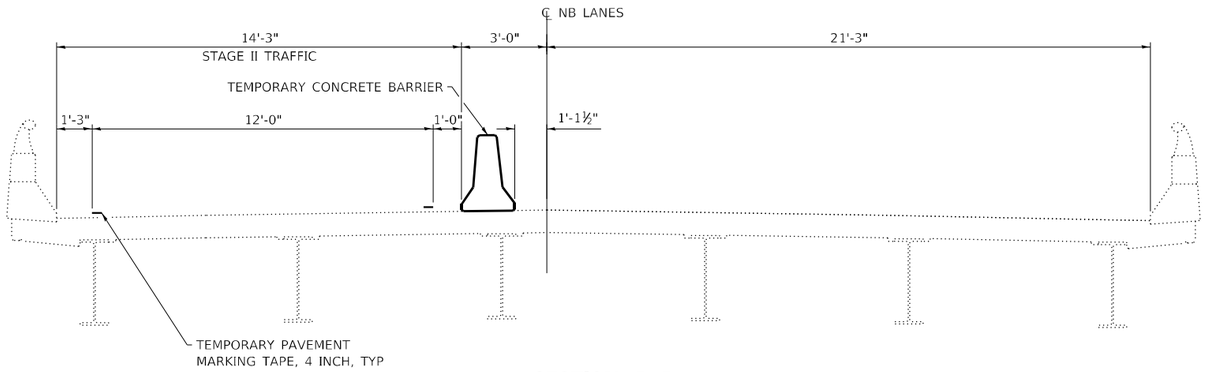
SCALE: NA | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR,BRR	LIVINGSTON	49	14
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		



STAGE II PLAN

(NORTHBOUND SHOWN; SOUTHBOUND
ROTATED 180°)



SECTION B–B

STAGE II GENERAL NOTES

SEE HIGHWAY STANDARD 701402 FOR ADDITIONAL INFORMATION AND DETAILS.

THE COST OF INSTALLING AND REMOVING THE TEMPORARY PAVEMENT MARKING TAPE IS INCLUDED IN TRAFFIC CONTROL AND PROTECTION, STANDARD 701402. GUARDRAIL/BARRIER WALL REFLECTORS ARE ALSO INCLUDED IN THE COST OF STANDARD 701402.

USE HIGHWAY STANDARD 701411 AT EACH ENTRANCE RAMP AT THE REST AREAS. REMOVE EXISTING WHITE ENTRANCE RAMP LINES AS REQUIRED

MODEL: PLOT
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ESCA CONSULTANTS, INC.

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ESCA PROJECT NO. 1321.10	DRAWN - NHC	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 12/7/2021	DATE - 11/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION, STANDARD 701402
STAGE II

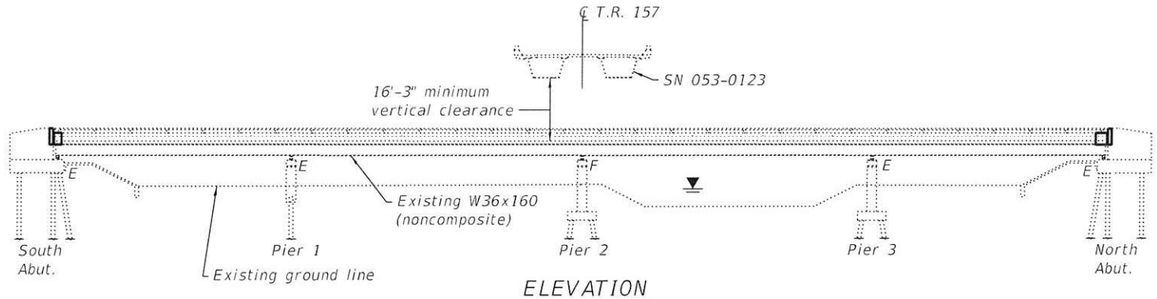
SCALE: NA | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR,BRR	LIVINGSTON	49	15
		CONTRACT NO. 66L75		
	ILLINOIS FED. AID PROJECT			

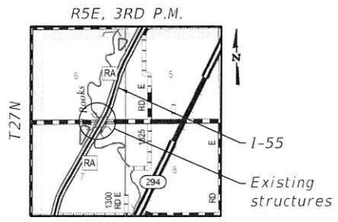
EXISTING STRUCTURE:
The existing four-span continuous steel multi-beam structures were constructed in 1972 as F.A.I. 55 Section 53-6B at Station 757+96.30. SN 053-0124 carries I-55 Southbound over Rooks Creek. SN 053-0125 carries I-55 Northbound over Rooks Creek. The concrete stub abutments and piers are supported by concrete piles. Each bridge is 282'-0" back-to-back of abutments and 42'-0" wide out-to-out of superstructure with a 30° left forward skew.

The proposed project consists of new expansion joints, new latex concrete overlays, bridge deck repair, substructure repair, slope wall repair, and painting of the beam ends, Traffic to be maintained utilizing stage construction.

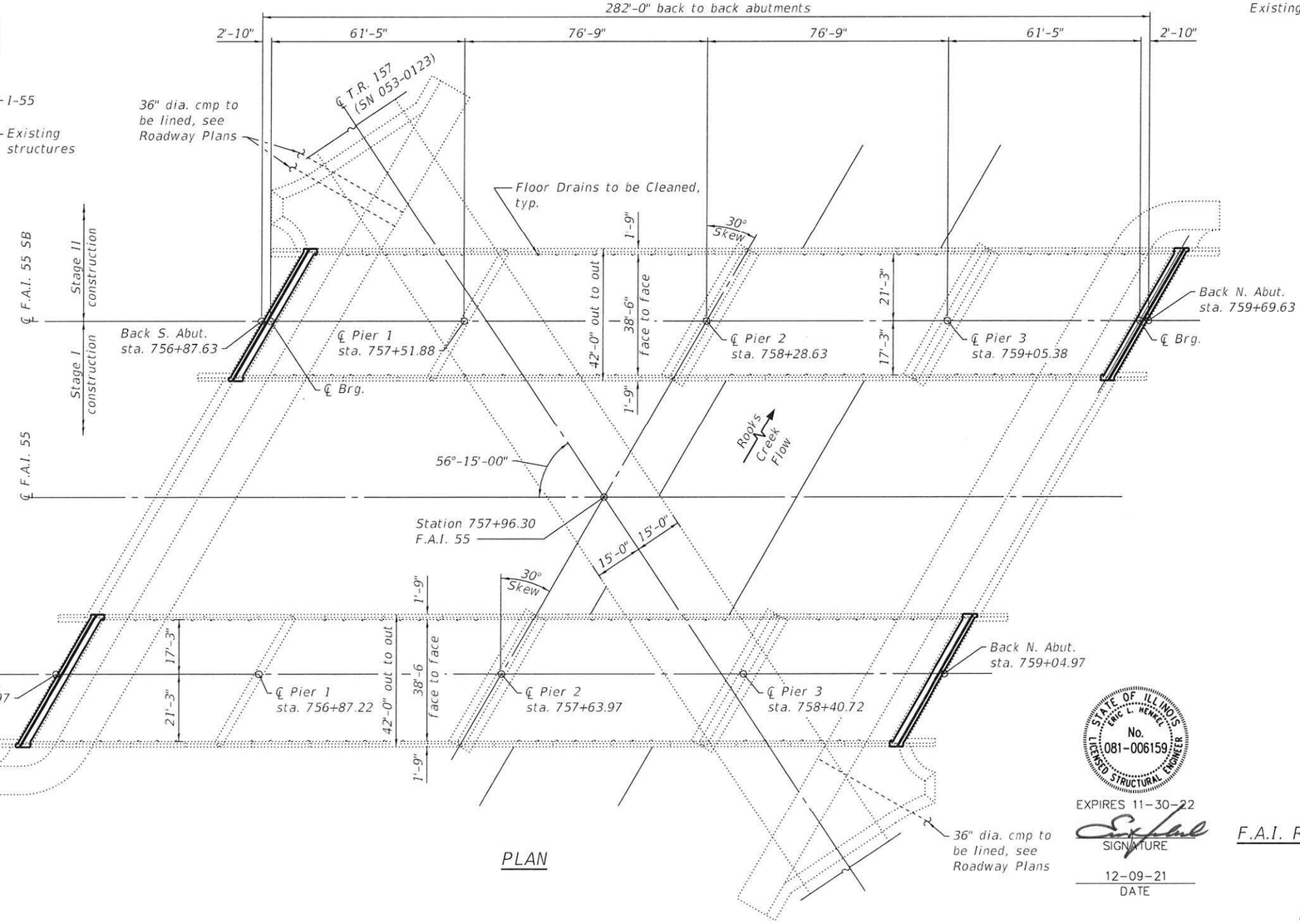
STRUCTURE INDEX OF SHEETS



ELEVATION



LOCATION SKETCH



PLAN

DESIGN STRESSES

FIELD UNITS

EXISTING CONSTRUCTION
fc = 1,200 psi (deck)
fc = 1,400 psi (parapet, substructure)
fs = 20,000 psi (reinforcement)

NEW CONSTRUCTION
f'c = 4,000 psi (concrete)
fy = 60,000 psi (reinforcement)

STATE OF ILLINOIS
ERIC L. HENKEL
No. 081-006159
LICENSED STRUCTURAL ENGINEER
EXPIRES 11-30-22

SIGNATURE

12-09-21
DATE

GENERAL PLAN & ELEVATION
I-55 OVER ROOKS CREEK
F.A.I. ROUTE 55 - SECTION (53-6B)BJR, BRR
LIVINGSTON COUNTY
STATION 757+96.30
STRUCTURE NO. 053-0124 (SB)
STRUCTURE NO. 053-0125 (NB)

ESCA CONSULTANTS, INC.

USER NAME = nhc	DESIGNED - SHL	08/21	REVISED -		
ESCA PROJECT NO. 1352.06	CHECKED - ELH	08/21	REVISED -		
PLOT SCALE = 0.2 ' / in.	DRAWN - NHC	10/21	REVISED -		
PLOT DATE = 12/7/2021	CHECKED - ELH	10/21	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	16
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		

MODEL: PLOT
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GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.

2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction 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 scope of work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

3. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be replaced using an approved bar splicer or anchorage system. Cost included in Concrete Removal.

4. Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on as-built plans.

5. Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.

6. Protective Coat shall be applied to areas of Concrete Superstructure consisting of the front faces and tops of the parapets and wingwalls and the top surfaces of the expansion joint blockouts. Protective Coat shall also be applied to the top of the new concrete overlay.

7. Structure number 053-0124 is referred to as Bridge No. 1. Structure number 053-0125 is referred to as Bridge No. 2.

8. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose potentially detrimental foreign material shall be removed from the surface in contact with concrete. Tightly adhered paint shall remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel. Cost included in Concrete Removal.

9. Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures." All beams, bearings, diaphragms, and other structural steel within five feet (measured along the beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning (SSPC-SP10).

10. The designated areas cleaned per Near White Blast Cleaning (SSPC-SP10) shall be painted according to the requirements of the Organic Zinc-Rich/Epoxy/Urethane paint system. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams and the fascia bearings shall be Reddish Brown, Munsell No. 2.5YR 3/4.

11. A minimum of one air monitor shall be required to monitor abrasive blasting operations at this site. See special provision for "Containment and Disposal of Lead Paint Cleaning Residues."

12. SSPC QP1 and SSPC QP2 Certifications are required for this Contract.

13. The Contractor shall be required to secure waste containers that remain on the job site. This will entail that all waste containers cannot be moved or opened during non-working hours.

14. Working days will be charged until the Contractor/Subcontractor licensed to dispose of lead paint residues has removed the waste material from the job site according to all federal, state, and local laws and ordinances. If the licensed Contractor or Subcontractor fails to dispose of the lead paint residues on or before the specified completion date, liquidated damages will be charged per calendar day according to Article 108.09 of the Standard Specifications until such time that all paint residue materials have been properly removed and disposed of.

15. There is significant debris on top of the abutment bearing seats. The seats shall be cleaned and the debris disposed of off site. Cost is included in Concrete Removal.

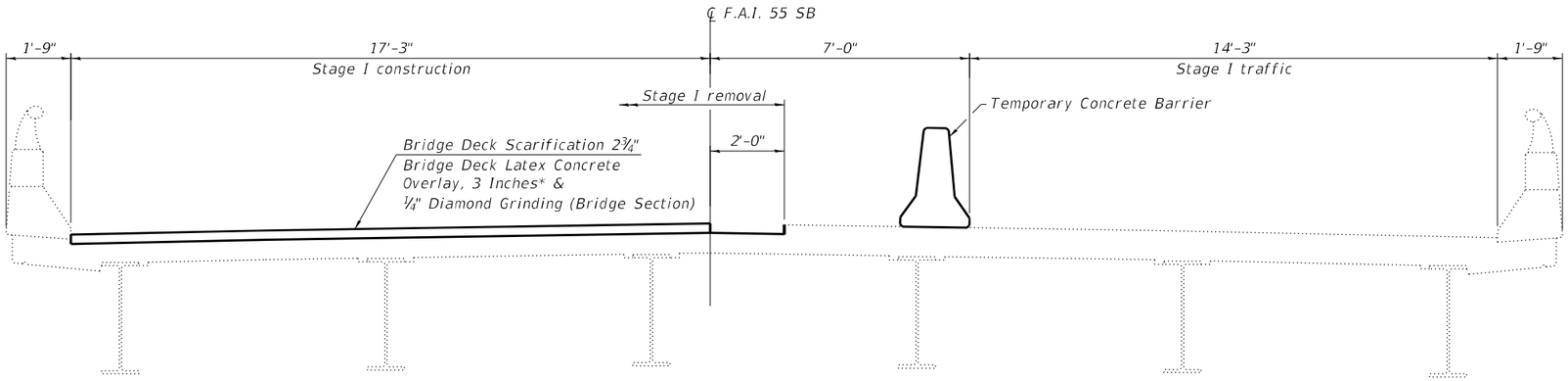
16. Up to ¼" may be ground off the proposed concrete overlays.

17. All existing microsilica overlay material must be removed prior to installing the new latex overlay.

18. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

TOTAL BILL OF MATERIAL

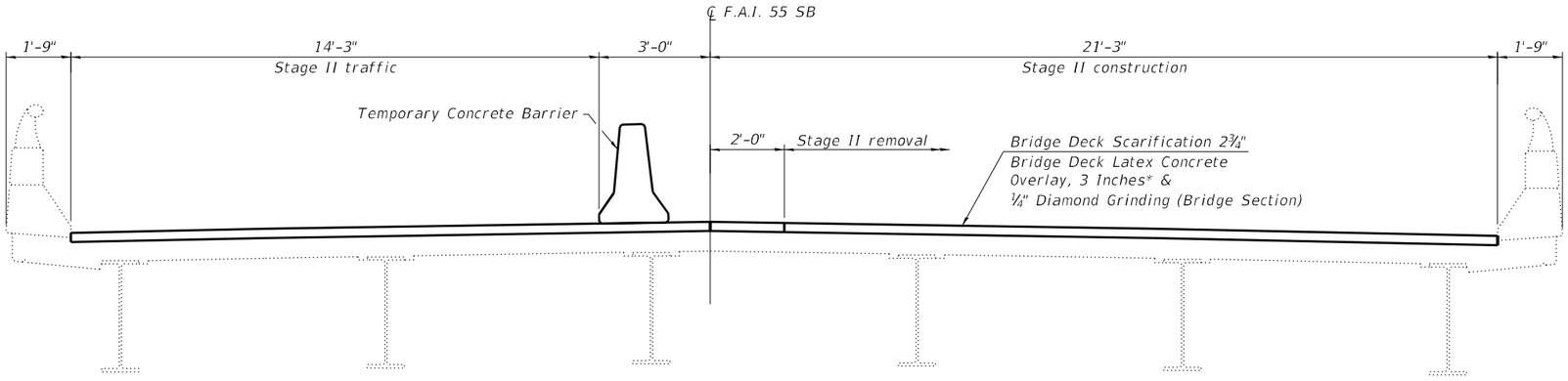
ITEM	UNIT	SN 053-0124	SN 053-0125	TOTAL
Concrete Removal	Cu. Yd.	14.4	14.4	28.8
Concrete Superstructure	Cu. Yd.	14.4	14.4	28.8
Protective Coat	Sq. Yd.	1208	1208	2416
Reinforcement Bars, Epoxy Coated	Pound	1920	1920	3840
Bar Splicers	Each	24	24	48
Preformed Joint Strip Seal	Foot	96	96	192
Epoxy Crack Injection	Foot	118	168	286
Slope Wall Crack Sealing	Foot	158	239	397
Floor Drains to be Cleaned	Each	62	62	124
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	749	749	1498
Bridge Deck Latex Concrete Overlay Concrete Overlay, 3 Inches	Sq. Yd.	1171	1171	2342
Containment and Disposal of Lead Paint Cleaning Residues No. 1	L Sum	1		1
Containment and Disposal of Lead Paint Cleaning Residues No. 2	L Sum		1	1
Cleaning and Painting Steel Bridge No. 1	L Sum	1		1
Cleaning and Painting Steel Bridge No. 2	L Sum		1	1
Bridge Deck Scarification 2¾"	Sq. Yd.	1171	1171	2342
Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	90	113	203
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	9	6	15
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	20	34	54
Diamond Grinding (Bridge Section)	Sq. Yd.	1075	1075	2150
Slope Wall Repair	Sq. Yd.	52	32	84
Slope Wall Slurry Pumping	Cu. Yd.	34	21	55



STAGE I - SOUTHBOUND LOOKING SOUTH

(STAGE I - NORTHBOUND LOOKING NORTH SIMILAR)

*Overlay thickness prior to grinding; scarification depth based on 05/17/2021 Coring Report



STAGE II - SOUTHBOUND LOOKING SOUTH

(STAGE II - NORTHBOUND LOOKING NORTH SIMILAR)

MODEL: PLOT
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12/16/2021 10:10:33 AM

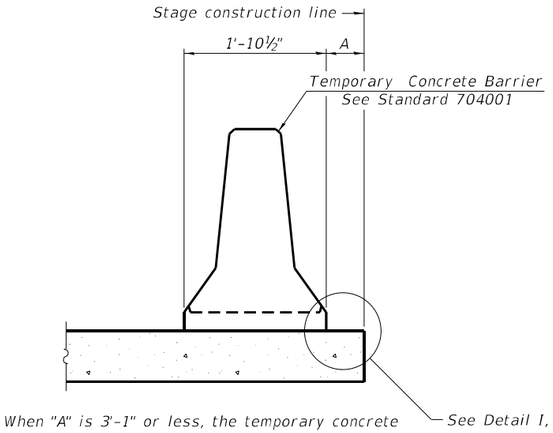
ESCA CONSULTANTS, INC.

USER NAME = nhc	DESIGNED - ELH 12/21	REVISED -	
ESCA PROJECT NO. 1352.06	CHECKED - SHL 12/21	REVISED -	
PLOT SCALE = 0:2 ':' / in.	DRAWN - NHC 12/21	REVISED -	
PLOT DATE = 12/16/2021	CHECKED - ELH 12/21	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

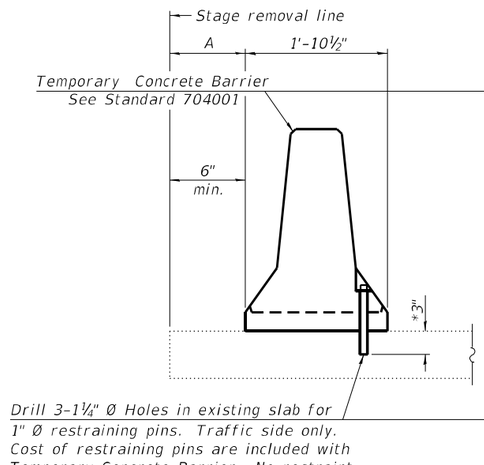
STAGE CONSTRUCTION
SN 053-0124 (SB) & SN 053-0125 (NB)
SHEET 3 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	18
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		



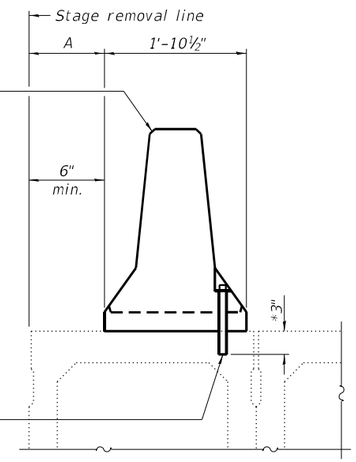
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



Drill 3-1¼" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

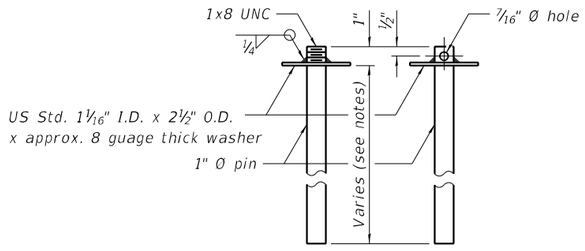
EXISTING SLAB



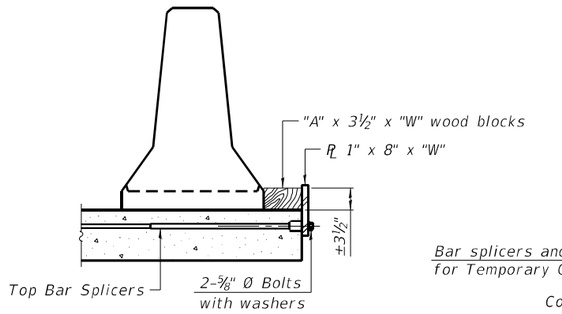
* When hot-mix asphalt wearng surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

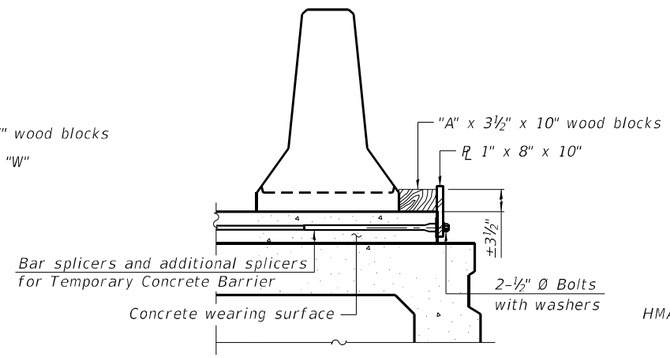
SECTIONS THRU SLAB OR DECK BEAM



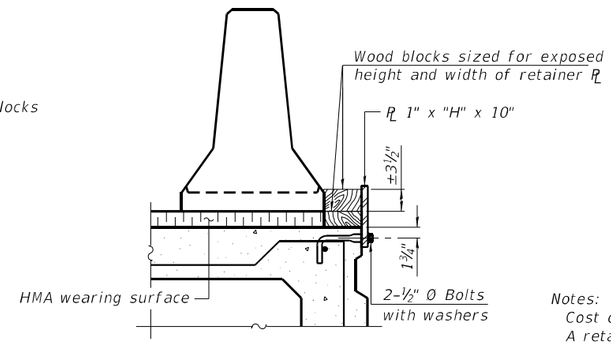
RESTRAINING PIN



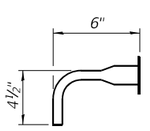
DETAIL I



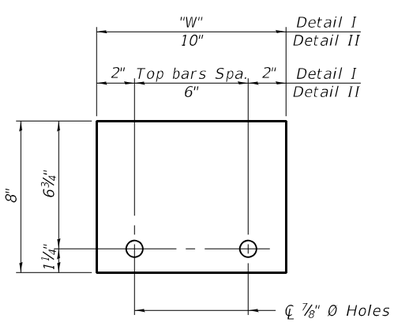
DETAIL II



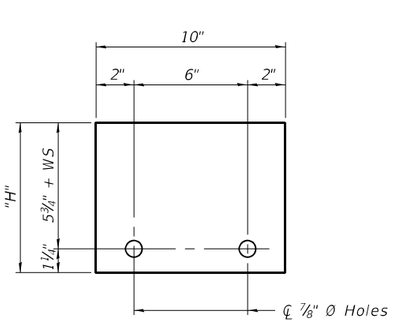
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER ℄ 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER ℄ 1" x "H" x 10"
(Detail III)

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier.

A retainer assembly shall be located at the approximate ℄ of each temporary concrete barrier.

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than 1½", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27

2-17-2017

ESCA CONSULTANTS, INC.
CIVIL & STRUCTURAL ENGINEERS

USER NAME = nhc	DESIGNED - SHL	08/21	REVISED -
ESCA PROJECT NO. 1352.06	CHECKED - ELH	08/21	REVISED -
PLOT SCALE = 0:2 ':" / in.	DRAWN - NHC	08/21	REVISED -
PLOT DATE = 12/7/2021	CHECKED - ELH	08/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
SN 053-0124 (SB) & SN 053-0125 (NB)
SHEET 4 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	19
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		

MODEL: PLOT
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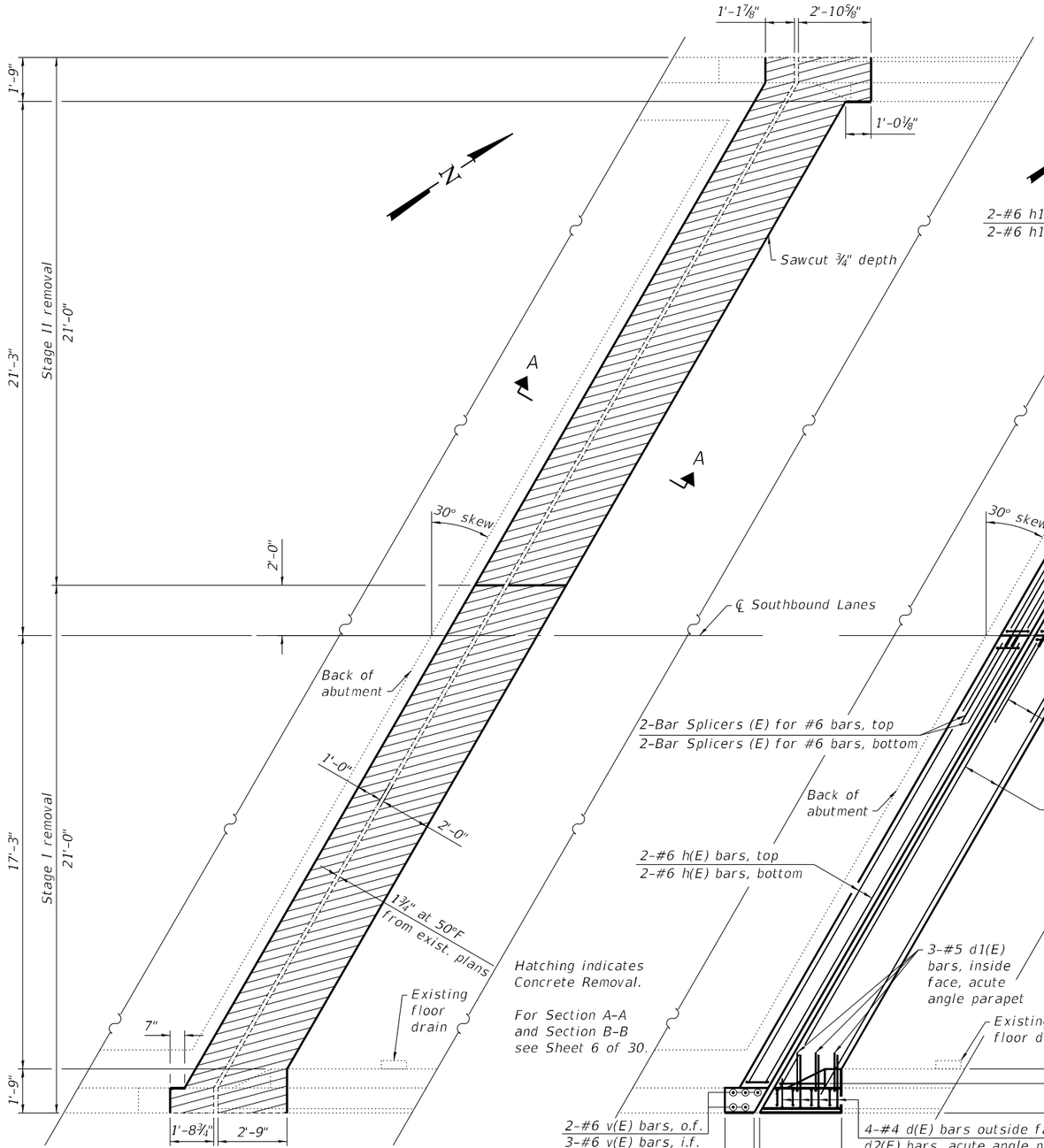
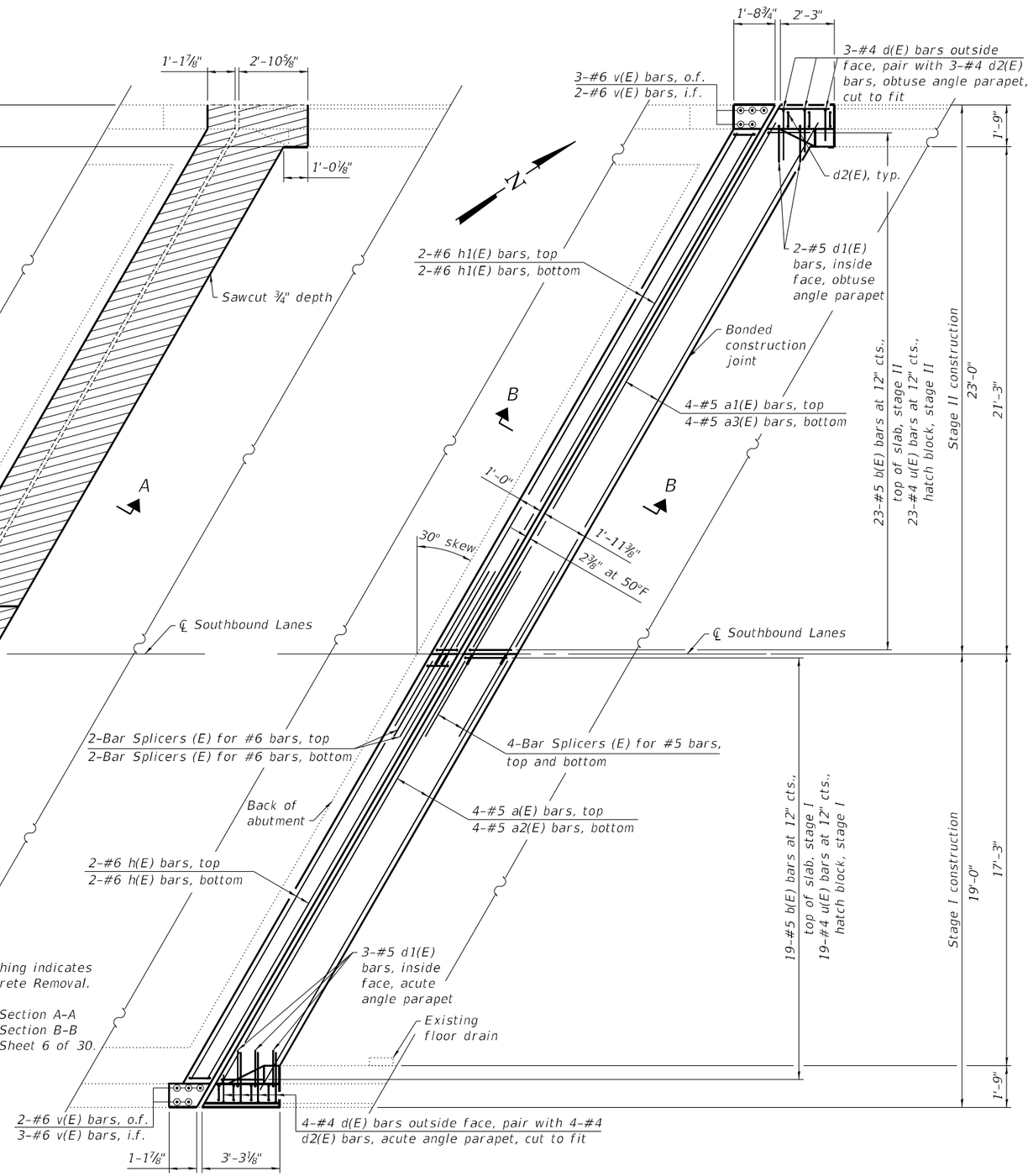


EXISTING PARTIAL PLAN

(Southbound South Abutment shown, other abutments similar)



PROPOSED PARTIAL PLAN

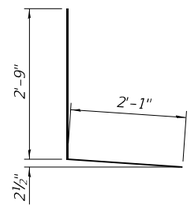
(Southbound South Abutment shown, other abutments similar)

BILL OF MATERIAL

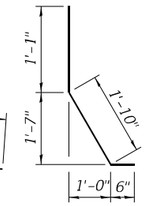
Per Abutment

Bar	Number Stage I	Number Stage II	Total	Size	Length	Shape
a(E)	4	–	4	#5	21'-4"	
a1(E)	–	4	4	#5	25'-11"	
a2(E)	4	–	4	#5	20'-1"	
a3(E)	–	4	4	#5	24'-8"	
b(E)	19	23	42	#5	2'-5"	
d(E)	4	3	7	#4	4'-10"	
d1(E)	3	2	5	#5	3'-5"	
d2(E)	4	3	7	#4	2'-1"	
h(E)	4	–	4	#6	20'-6"	
h1(E)	–	4	4	#6	25'-1"	
u(E)	19	23	42	#4	2'-8"	
v(E)	5	5	10	#6	4'-6"	

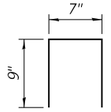
Reinforcement Bars, Epoxy Coated	Pound	960
Concrete Removal	Cu. Yd.	7.2
Concrete Superstructure	Cu. Yd.	7.2
Bar Splicers	Each	12



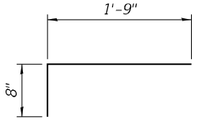
BAR d(E)



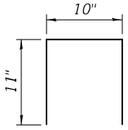
BAR d1(E)



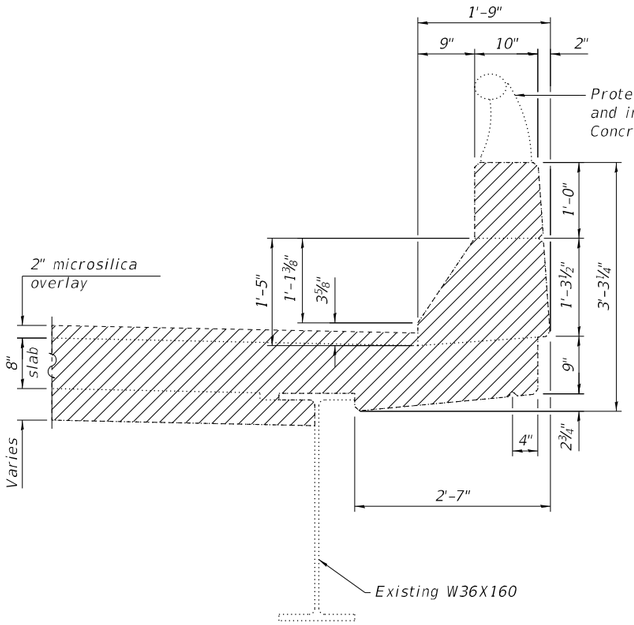
BAR d2(E)



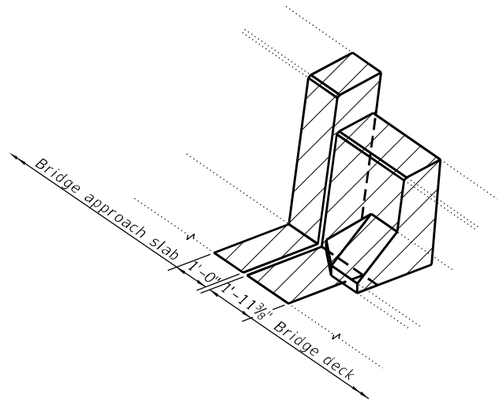
BAR b(E)



BAR u(E)

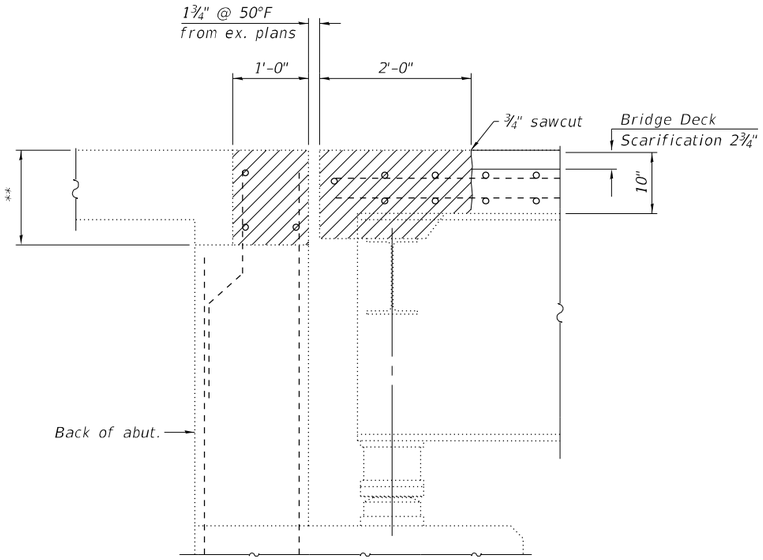


EXISTING SECTION THRU PARAPET



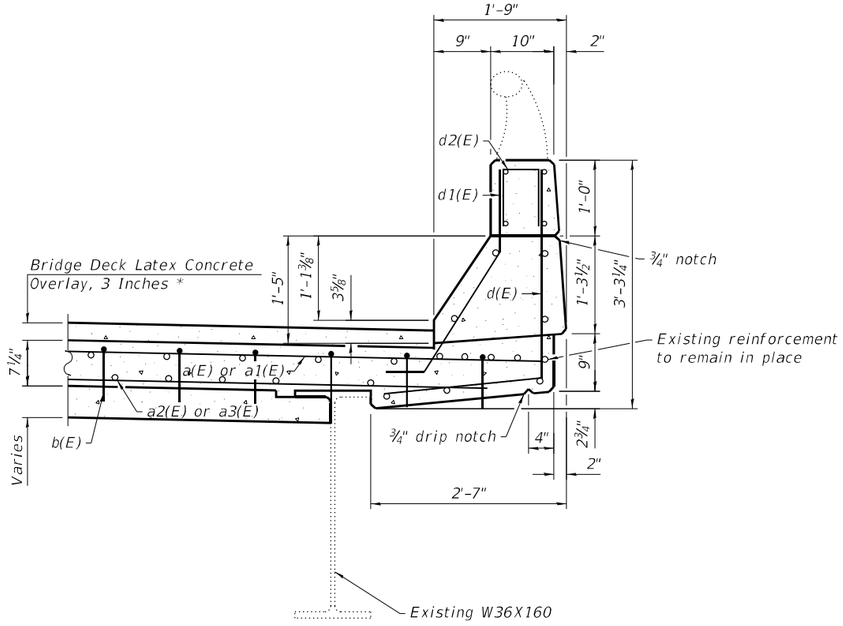
TYPICAL CONCRETE REMOVAL AT EACH JOINT

Hatching indicates Concrete Removal

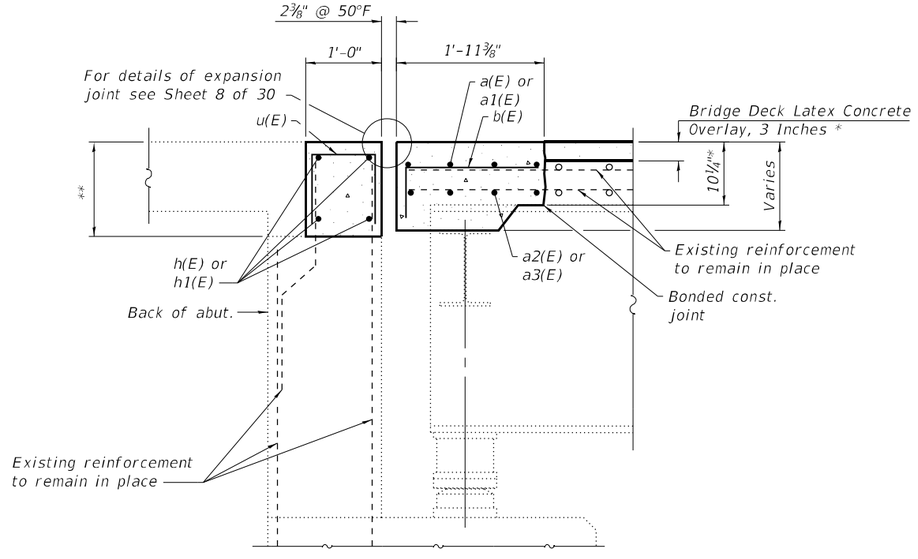


SECTION A-A

(Horizontal dimensions at rt. L's)



PROPOSED SECTION THRU PARAPET



SECTION B-B

(Horizontal dimensions at rt. L's)

* Prior to ¼" grinding

** SN 053-0124 abutments 1'-6⅞" at ℄, 1'- 3¼" east wing, 1'-2" west wing
SN 053-0125 abutments 1'-6⅞" at ℄, 1'- 2¼" east wing, 1'-3" west wing

MODEL: PLOT
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12/16/2021 10:10:36 AM

ESCA CONSULTANTS, INC.

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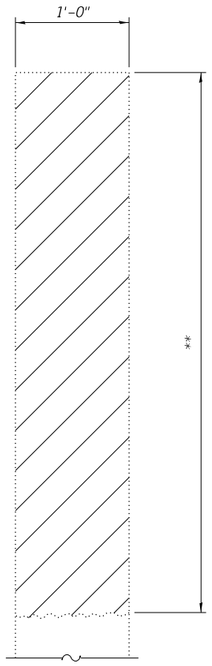
PLOT DATE = 12/16/2021	CHECKED - ELH	12/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPLACEMENT DETAILS
SN 053-0124 (SB) & SN 053-0125 (NB)

SHEET 6 OF 30 SHEETS

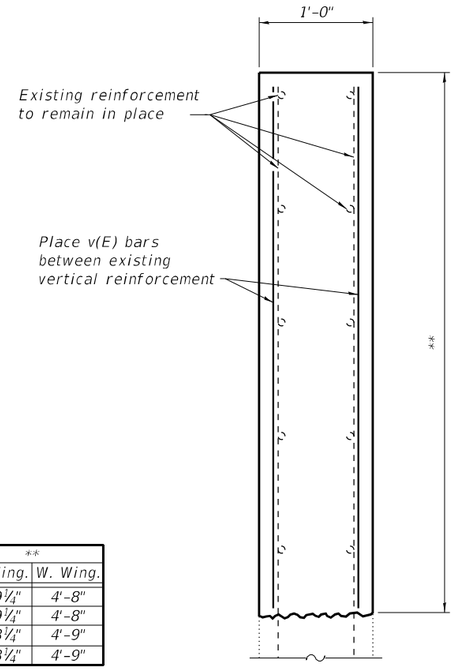
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	21
		CONTRACT NO. 66L75		
	ILLINOIS FED. AID PROJECT			



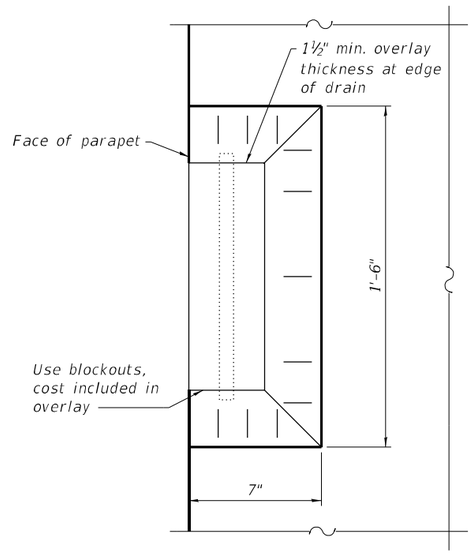
Hatching indicates Concrete Removal

EXISTING WINGWALL DETAIL

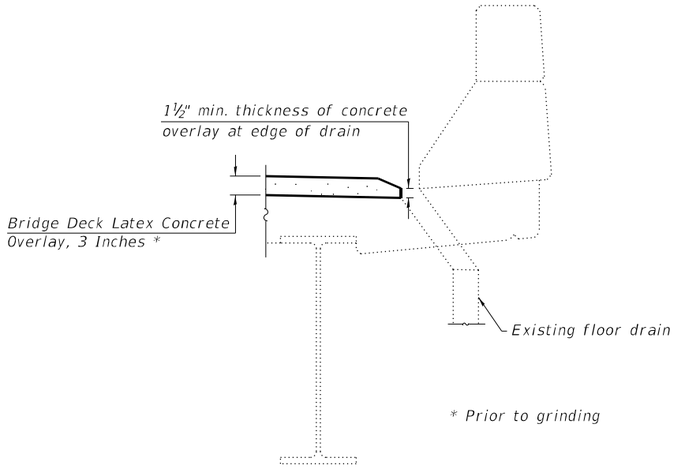
Bridge	Abutment	**	
		E. Wing.	W. Wing.
SN 053-0124 (SB)	S. Abut.	4'-9¼"	4'-8"
	N. Abut.	4'-9¼"	4'-8"
SN 053-0125 (NB)	S. Abut.	4'-8¼"	4'-9"
	N. Abut.	4'-8¼"	4'-9"



PROPOSED WINGWALL DETAIL



OVERLAY TREATMENT AT FLOOR DRAINS



SECTION AT FLOOR DRAINS

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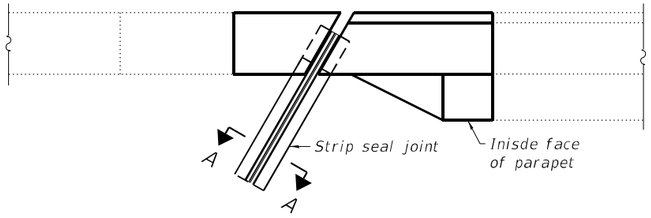
PLOT SCALE = 0:2 ½" / in.	DRAWN - SHL	08/21	REVISED -
PLOT DATE = 12/7/2021	CHECKED - ELH	08/21	REVISED -

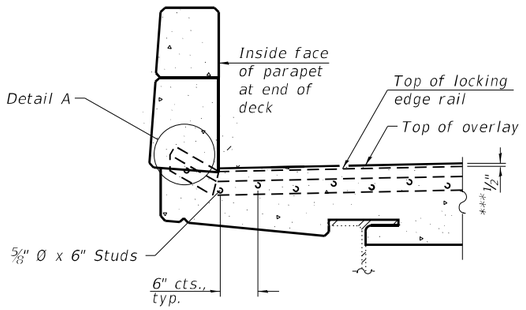
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPLACEMENT DETAILS
SN 053-0124 (SB) & SN 053-0125 (NB)
SHEET 7 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	22
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		

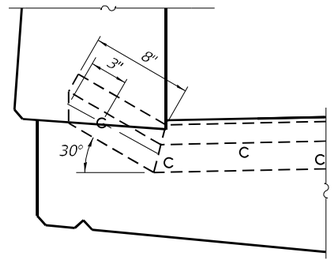


PLAN AT PARAPET



SECTION AT PARAPET

*** Prior to grinding



DETAIL A

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of ¼". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4½" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

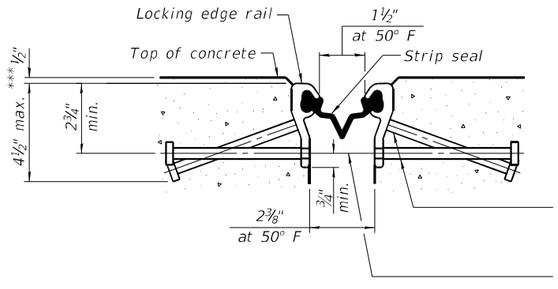
The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

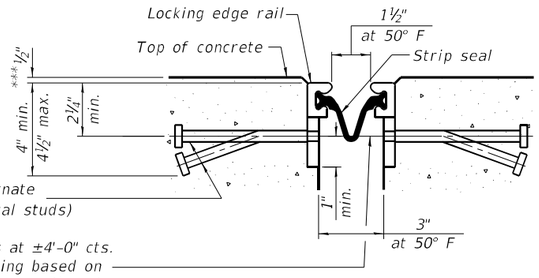
The maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of embedded plates and anchorage studs included with Preformed Joint Strip Seal.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required.



SHOWING ROLLED RAIL JOINT



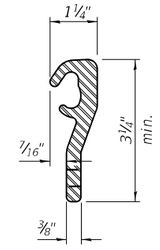
SHOWING WELDED RAIL JOINT

* ⅝" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

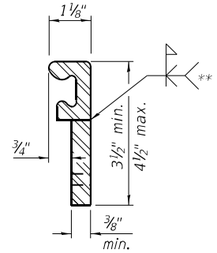
⅜" ϕ threaded rods in 7/16" ϕ holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



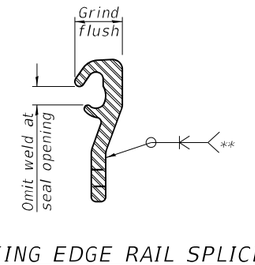
ROLLED (EXTRUDED) RAIL



WELDED RAIL

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	192

MODEL: PLOT
FILE NAME: Y:\IDOT\1352-06_66L75\CADD\SP SN 053-0124&125\053O124-66L75-08-PJS.dgn

12/16/2021 10:10:37 AM

ESCA CONSULTANTS, INC.

USER NAME = nhc	DESIGNED - ELH	12/21	REVISED -
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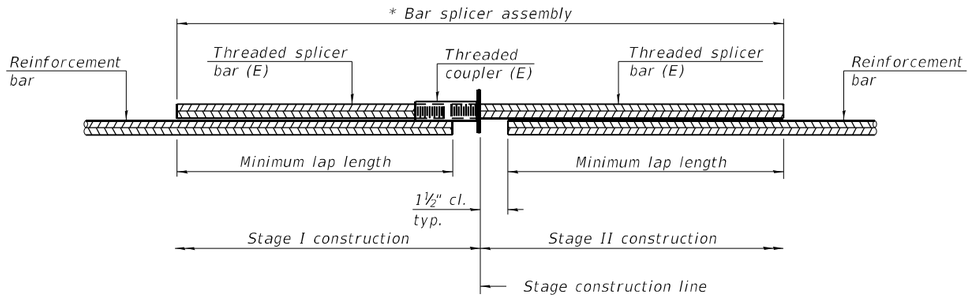
PLOT SCALE = 0:2 ':' / in.	DRAWN - KAH	12/21	REVISED -
PLOT DATE = 12/16/2021	CHECKED - ELH	12/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
SN 053-0124 (SB) & SN 053-0125 (NB)
SHEET 8 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	23
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		



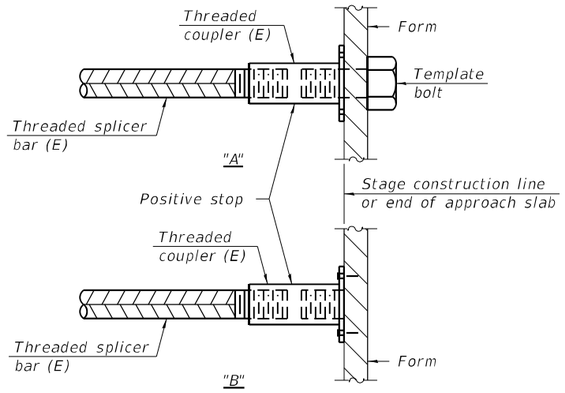
STANDARD BAR SPLICER ASSEMBLY PLAN

(All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1½" + thread length

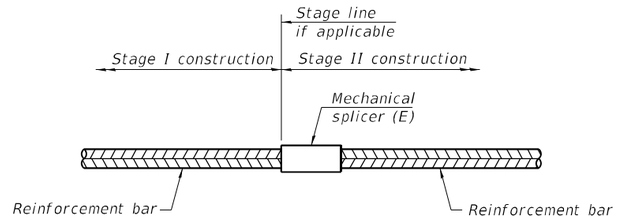
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
053-0124 Deck	#5	16	3'-6"
053-0124 Hatch Block	#6	8	4'-0"
053-0125 Deck	#5	16	3'-6"
053-0125 Hatch Block	#6	8	4'-0"



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
NA		

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 1-1-2020

ESCA CONSULTANTS, INC.

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ESCA PROJECT NO. 1352.06	CHECKED - SHL 12/21	REVISED -	
PLOT SCALE = 0.2 '' / in.	DRAWN - NHC 12/21	REVISED -	
PLOT DATE = 12/16/2021	CHECKED - ELH 12/21	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
SN 053-0124 (SB)

SHEET 9 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	24
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		

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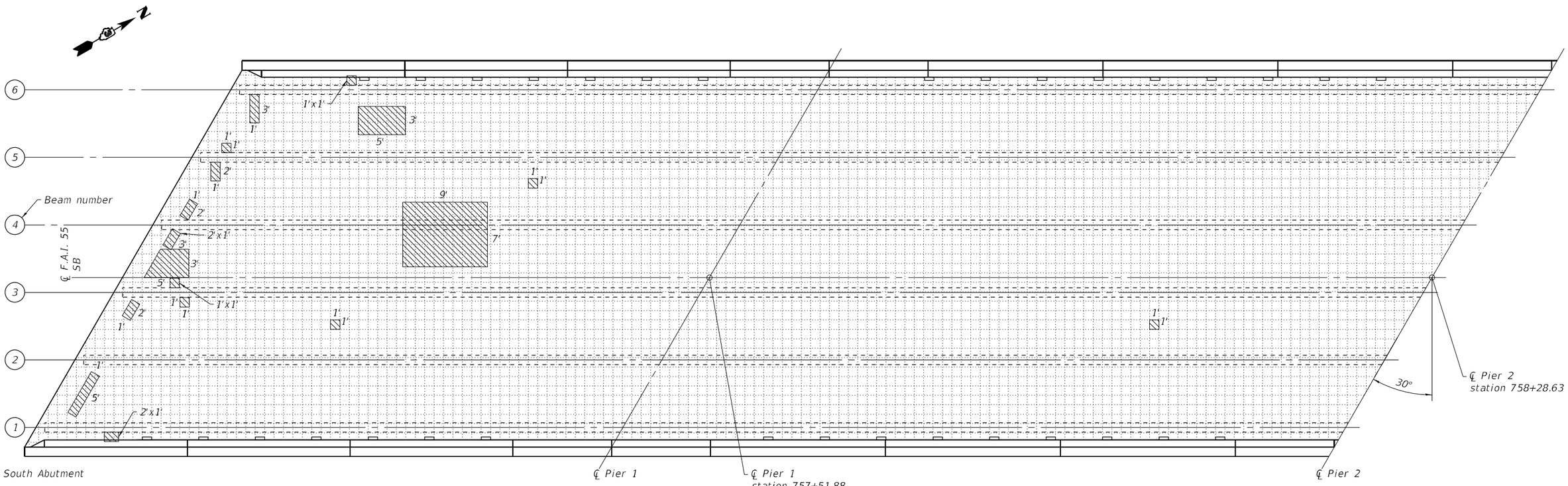
12/16/2021 10:10:38 AM



LEGEND

One square foot grid

Beam flange

Deck Slab Repair (Full Depth)

PLAN
SN 053-0124 SOUTH END

ESCA CONSULTANTS, INC.	USER NAME = nhc	DESIGNED - ELH 08/21	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**DECK SLAB REPAIR PLAN SN 053-0124 (SB)**
	ESCA PROJECT NO. 1352.06	CHECKED - SHL 08/21	REVISED -		SHEET 10 OF 30 SHEETS
	PLOT SCALE = 0:2 ':' / in.	DRAWN - KAH 10/21	REVISED -		
	PLOT DATE = 12/7/2021	CHECKED - ELH 10/21	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	25
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		

MODEL: PLOT
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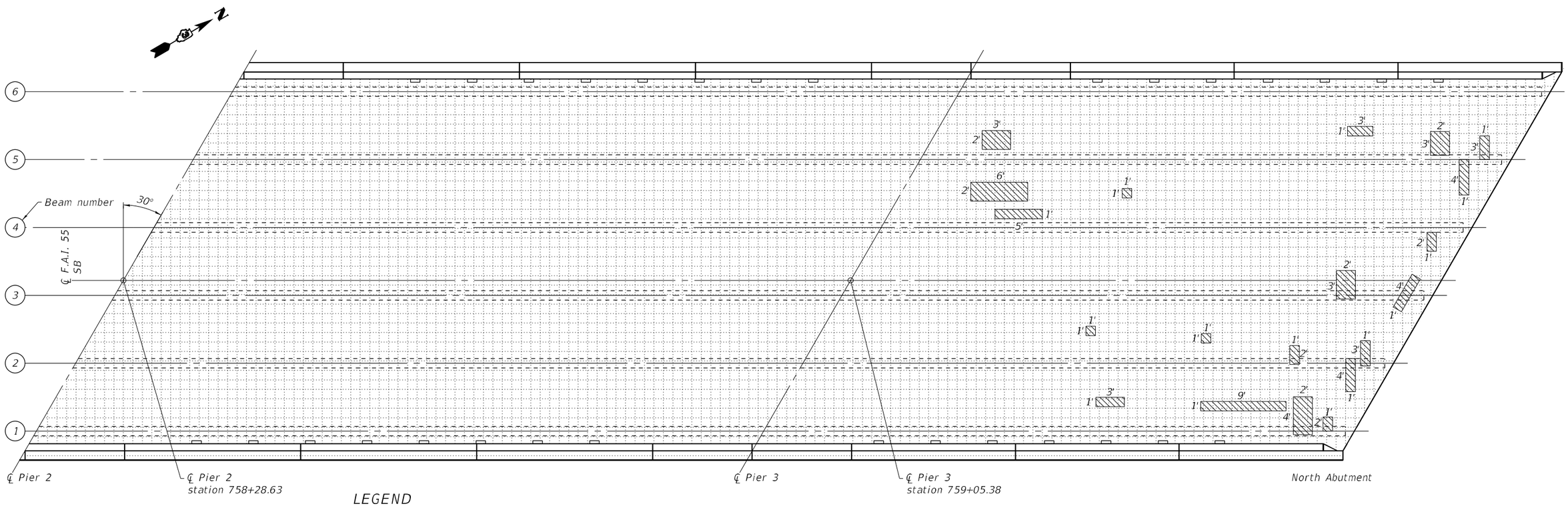

LEGEND

- One square foot grid
- Beam flange
- Deck Slab Repair (Full Depth)

PLAN
SN 053-0124 NORTH END

BILL OF MATERIAL

Item	Unit	SN 053-0124 Quantity
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	9
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	20

ESCA CONSULTANTS, INC.

USER NAME = nhc	DESIGNED - ELH	08/21	REVISED -	
ESCA PROJECT NO. 1352.06	CHECKED - SHL	08/21	REVISED -	
PLOT SCALE = 0.2 '' / in.	DRAWN - KAH	10/21	REVISED -	
PLOT DATE = 12/29/2021	CHECKED - ELH	10/21	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK SLAB REPAIR PLAN
SN 053-0124 (SB)
SHEET 11 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	26
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		

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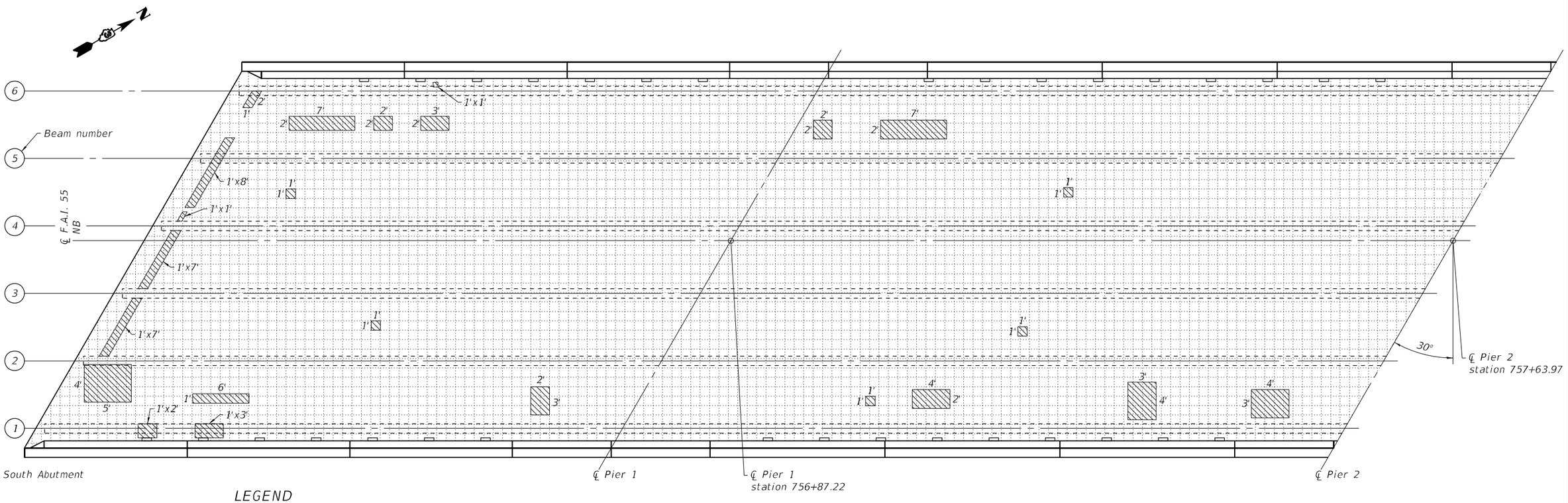

LEGEND

- One square foot grid
- Beam flange
- Deck Slab Repair (Full Depth)

PLAN
SN 053-0125 SOUTH END

MODEL: PLOT
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12/7/2021 9:18:21 AM

ESCA CONSULTANTS, INC.

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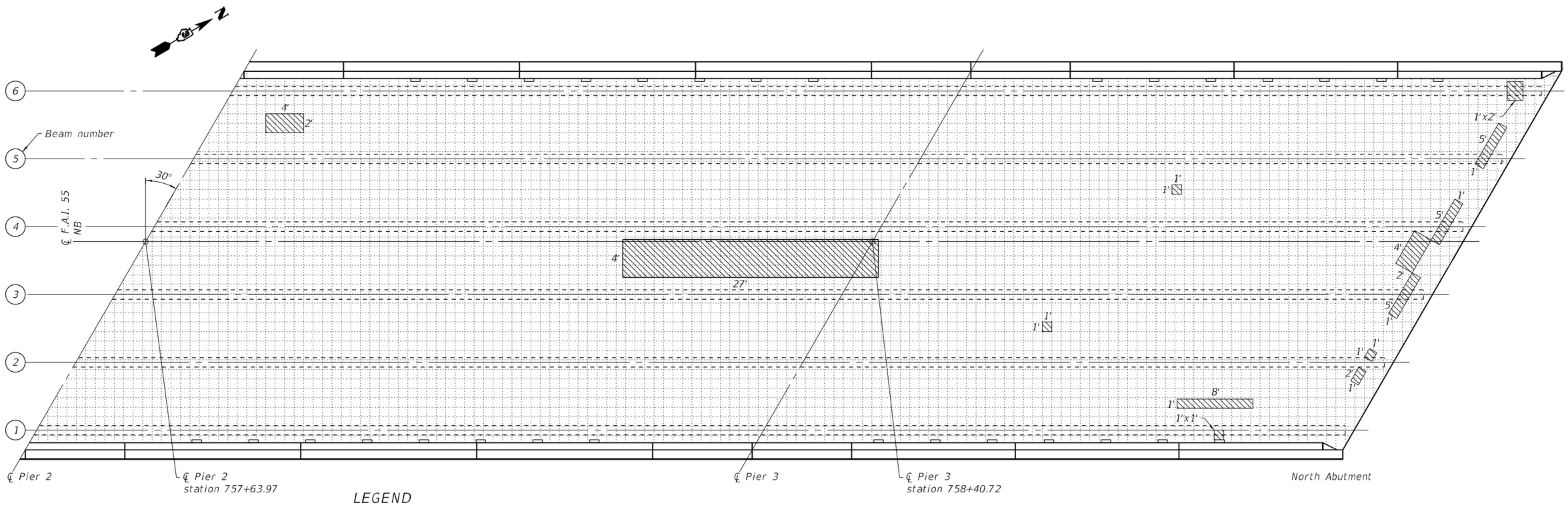
PLOT DATE = 12/7/2021	CHECKED - ELH	10/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK SLAB REPAIR PLAN
SN 053-0125 (NB)
SHEET 12 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	27
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		



LEGEND

One square foot grid

Beam flange

Deck Slab Repair (Full Depth)

PLAN
SN 053-0125 NORTH END

BILL OF MATERIAL

Item	Unit	SN 053-0125 Quantity
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	6
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	34

ESCA CONSULTANTS, INC.

USER NAME = nhc	DESIGNED - ELH	08/21	REVISED -
ESCA PROJECT NO. 1352.06	CHECKED - SHL	08/21	REVISED -
PLOT SCALE = 0:2 ':' / in.	DRAWN - KAH	10/21	REVISED -
PLOT DATE = 12/29/2021	CHECKED - ELH	10/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK SLAB REPAIR PLAN
SN 053-0125 (NB)
SHEET 13 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	28
		CONTRACT NO. 66L75		
	ILLINOIS FED. AID PROJECT			

MODEL: PLOT
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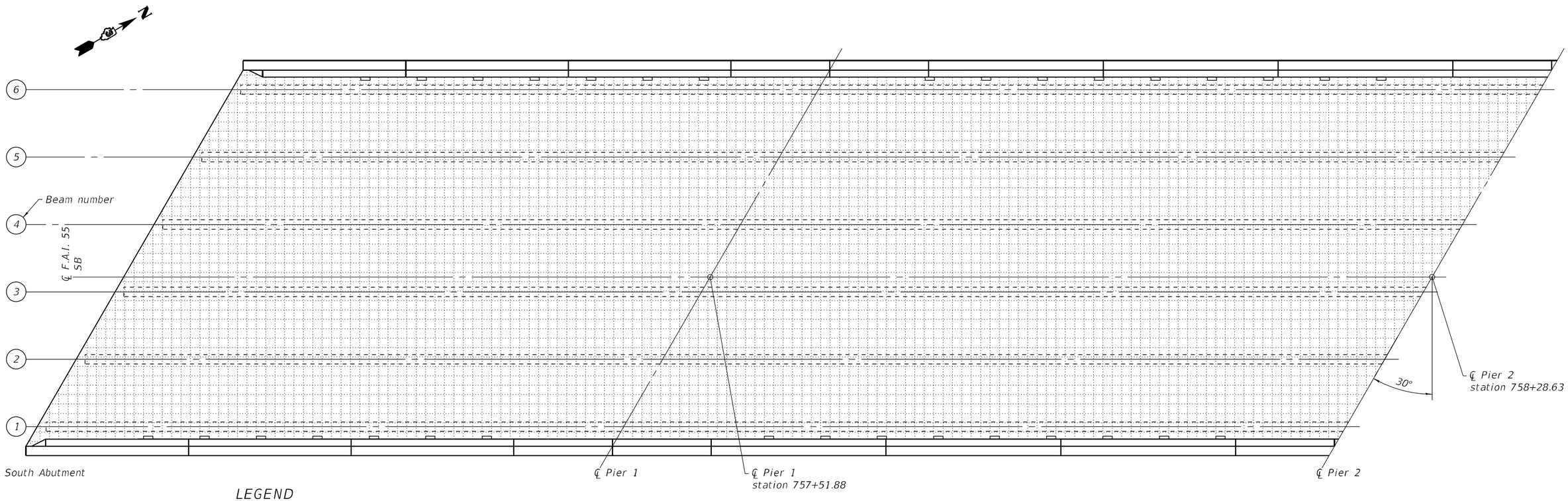

LEGEND

One square foot grid

Beam flange

Deck Slab Repair (Full Depth)

PLAN
SN 053-0124 SOUTH END

MODEL: PLOT
FILE NAME: Y:\IDOT\1352-06_66L75\CADD\SP SN 053-0124&125\053O124-66L75-14-DeckSlabRepair AsBuilt.dgn

12/7/2021 9:18:23 AM

ESCA CONSULTANTS, INC.

USER NAME = nhc	DESIGNED - ELH 08/21	REVISED -	
ESCA PROJECT NO. 1352.06	CHECKED - SHL 08/21	REVISED -	
PLOT SCALE = 0:2 ':' / in.	DRAWN - KAH 08/21	REVISED -	
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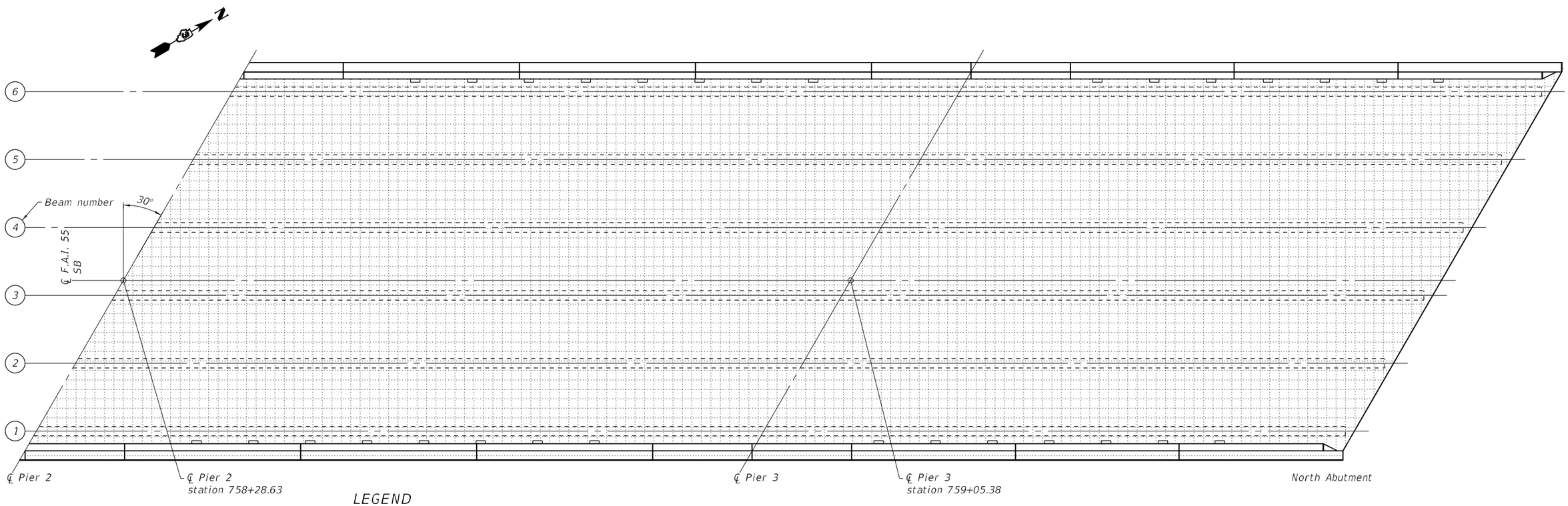
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK SLAB REPAIR PLAN ASBUILT
SN 053-0124 (SB)

SHEET 14 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	29
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		



LEGEND

One square foot grid

Beam flange

Deck Slab Repair (Full Depth)

PLAN

SN 053-0124 NORTH END

MODEL: PLOT
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ESCA CONSULTANTS, INC.

USER NAME = nhc	DESIGNED - ELH	08/21	REVISED -	
ESCA PROJECT NO. 1352.06	CHECKED - SHL	08/21	REVISED -	
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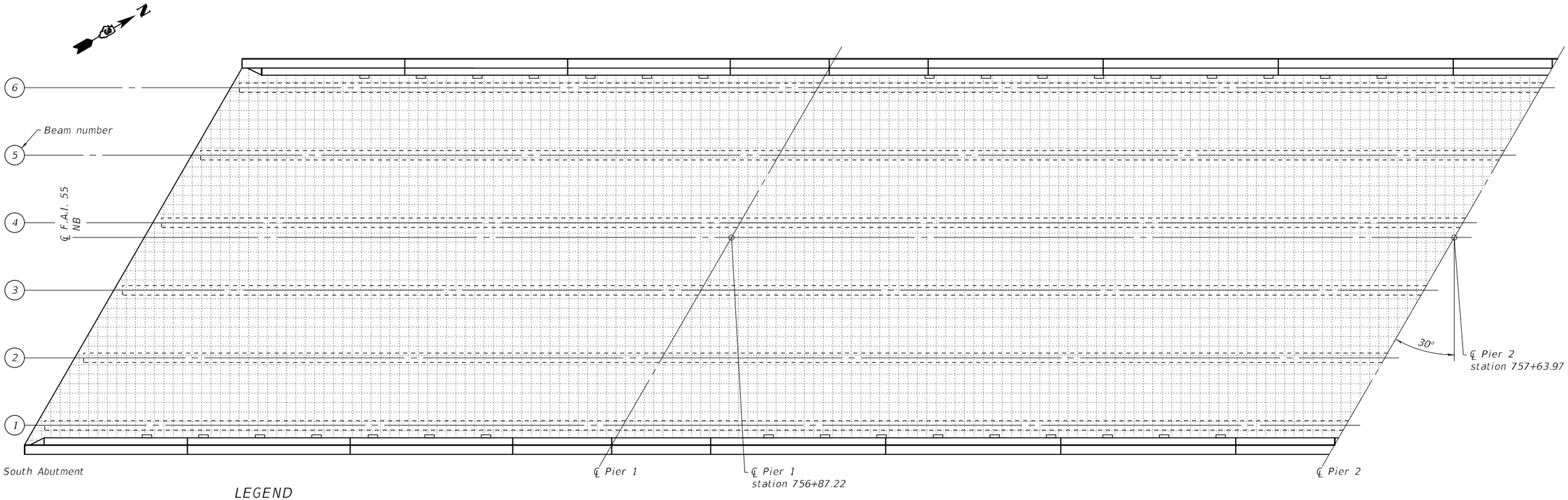
PLOT DATE = 12/7/2021	CHECKED - ELH	08/21	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK SLAB REPAIR PLAN ASBUILT
SN 053-0124 (SB)

SHEET 15 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	30
		CONTRACT NO. 66L75		
		ILLINOIS	FED. AID PROJECT	



LEGEND

One square foot grid

Beam flange

Deck Slab Repair (Full Depth)

PLAN
SN 053-0125 SOUTH END

MODEL: PLOT
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12/7/2021 9:18:24 AM

ESCA CONSULTANTS, INC.

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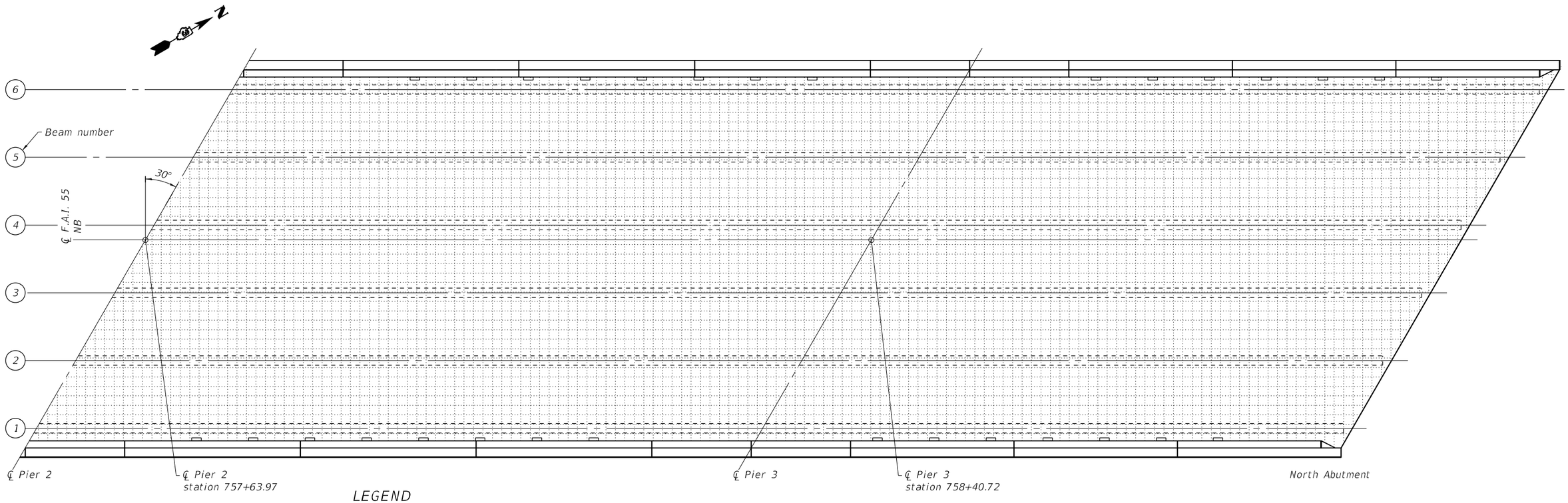
PLOT DATE = 12/7/2021	CHECKED - ELH 08/21	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK SLAB REPAIR PLAN ASBUILT
SN 053-0125 (NB)
SHEET 16 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	31
		CONTRACT NO. 66L75		
		ILLINOIS FED. AID PROJECT		



LEGEND

One square foot grid

Beam flange

Deck Slab Repair (Full Depth)

PLAN
SN 053-0125 NORTH END

MODEL: PLOT
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12/7/2021 9:18:25 AM

ESCA CONSULTANTS, INC.

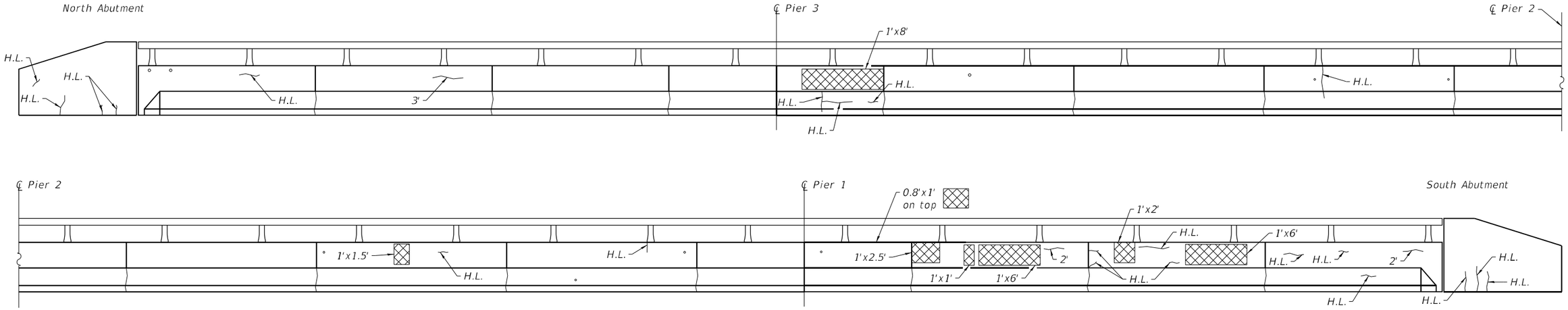
USER NAME = nhc	DESIGNED - ELH	08/21	REVISED -
ESCA PROJECT NO. 1352.06	CHECKED - SHL	08/21	REVISED -
PLOT SCALE = 0.2 '' / in.	DRAWN - KAH	08/21	REVISED -
PLOT DATE = 12/7/2021	CHECKED - ELH	08/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

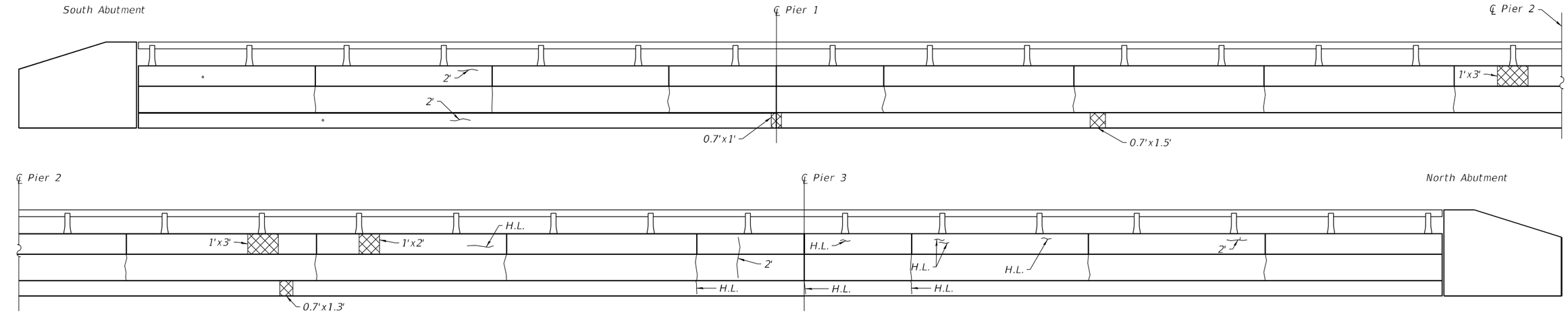
DECK SLAB REPAIR PLAN ASBUILT
SN 053-0125 (NB)

SHEET 17 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	32
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		



EAST RAILING INSIDE ELEVATION



EAST RAILING OUTSIDE ELEVATION

LEGEND

Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)

6' — Epoxy Crack Injection

H.L. — Hairline crack – not to be sealed

MODEL: PLOT
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12/7/2021 9:18:25 AM

ESCA CONSULTANTS, INC. CIVIL & STRUCTURAL ENGINEERS

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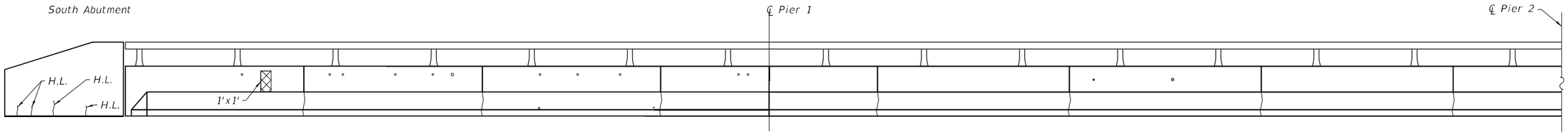
ESCA PROJECT NO. 1352.06	CHECKED - SHL	08/21	REVISED -
PLOT SCALE = 0:2 ':' / in.	DRAWN - NHC	10/21	REVISED -
PLOT DATE = 12/7/2021	CHECKED - ELH	10/21	REVISED -

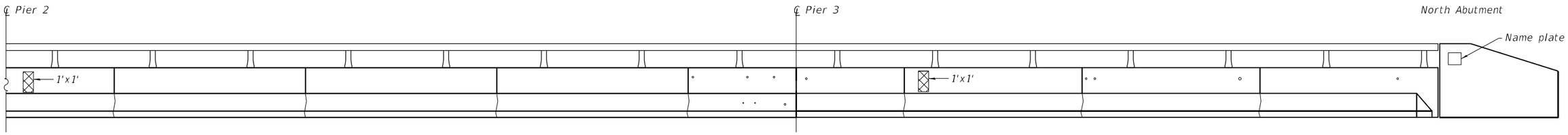
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET REPAIR
SN 053–0124 (SB)

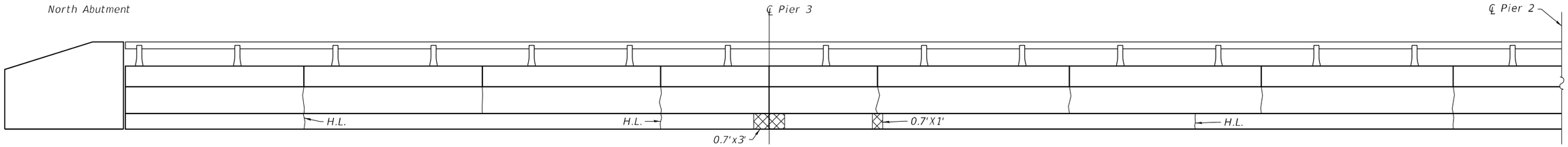
SHEET 18 OF 30 SHEETS

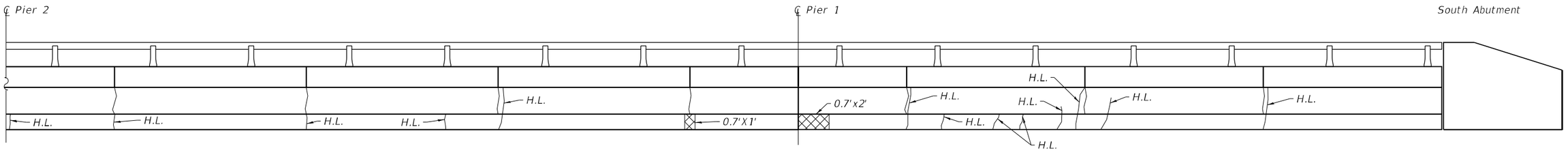
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	33
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		





WEST RAILING INSIDE ELEVATION





WEST RAILING OUTSIDE ELEVATION

LEGEND

Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)

6' — Epoxy Crack Injection

H.L. — Hairline crack - not to be sealed

BILL OF MATERIAL

Item	Unit	SN 053-0124 Quantity
Structural Repair of Concrete (≤ 5")	Sq. Ft.	46.5
Epoxy Crack Injection	Foot	15.0

MODEL: PLOT
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12/7/2021 9:18:26 AM

ESCA CONSULTANTS, INC. CIVIL & STRUCTURAL ENGINEERS

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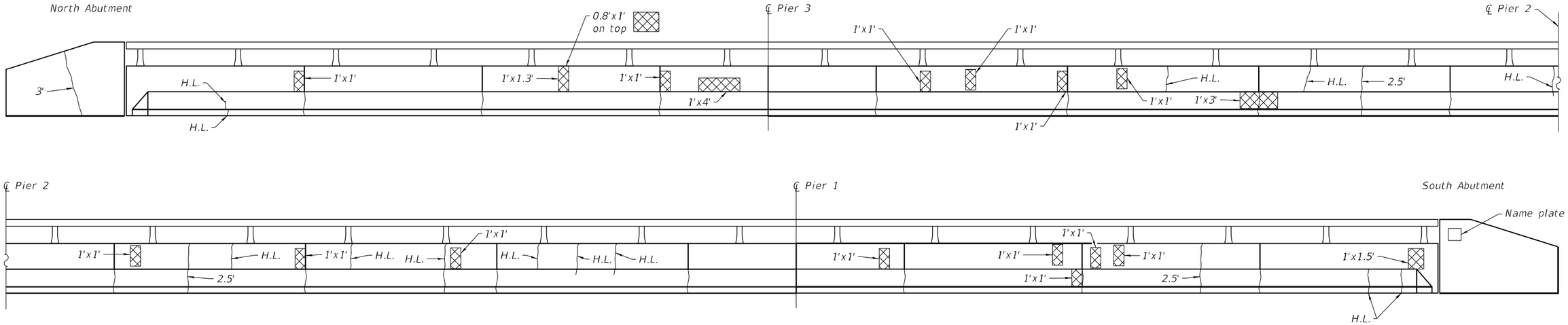
PLOT SCALE = 0:2 ':' / in.	DRAWN - NHC 10/21	REVISED -	
PLOT DATE = 12/7/2021	CHECKED - ELH 10/21	REVISED -	

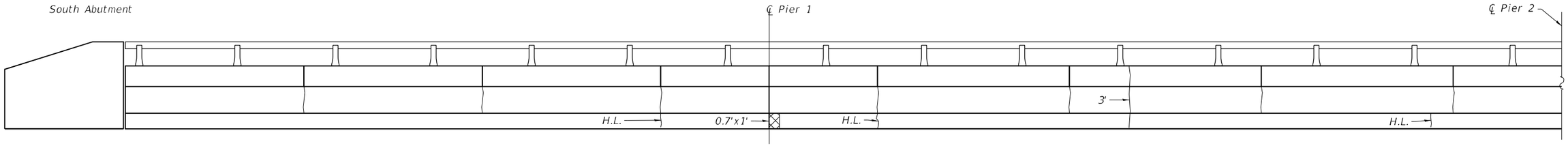
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

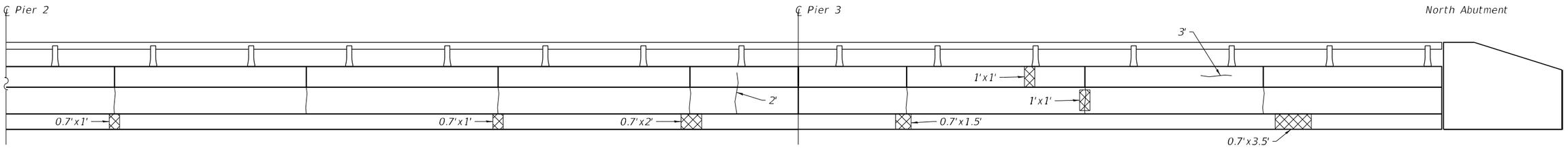
PARAPET REPAIR
SN 053-0124 (SB)
SHEET 19 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	34
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		



EAST RAILING INSIDE ELEVATION





EAST RAILING OUTSIDE ELEVATION

LEGEND

Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)

6' → Epoxy Crack Injection

H.L. → Hairline crack – not to be sealed

ESCA CONSULTANTS, INC. CIVIL & STRUCTURAL ENGINEERS

USER NAME = nhc	DESIGNED - ELH 08/21	REVISED -	
ESCA PROJECT NO. 1352.06	CHECKED - SHL 08/21	REVISED -	
PLOT SCALE = 0:2 ':' / in.	DRAWN - NHC 10/21	REVISED -	
PLOT DATE = 12/7/2021	CHECKED - ELH 10/21	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET REPAIR
SN 053–0125 (NB)

SHEET 20 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	35
		CONTRACT NO. 66L75		
		ILLINOIS FED. AID PROJECT		

MODEL: PLOT
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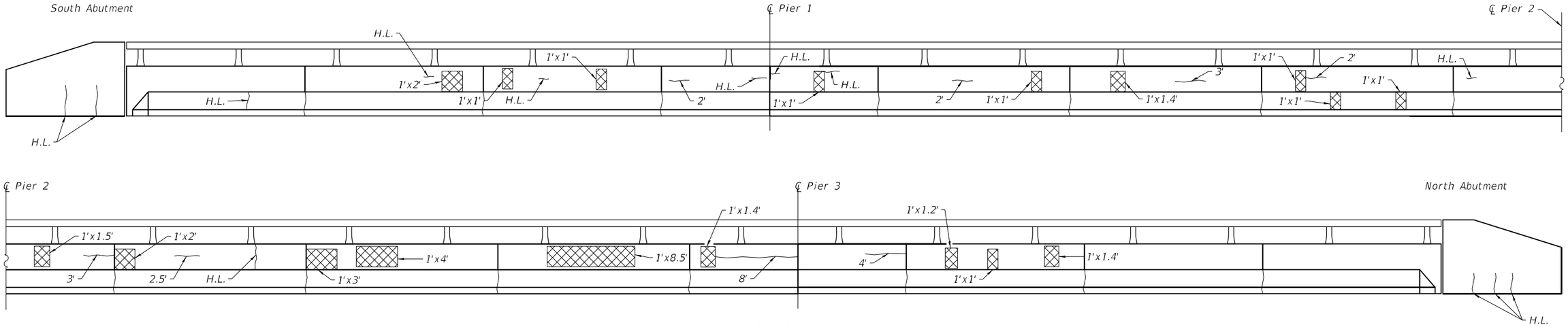
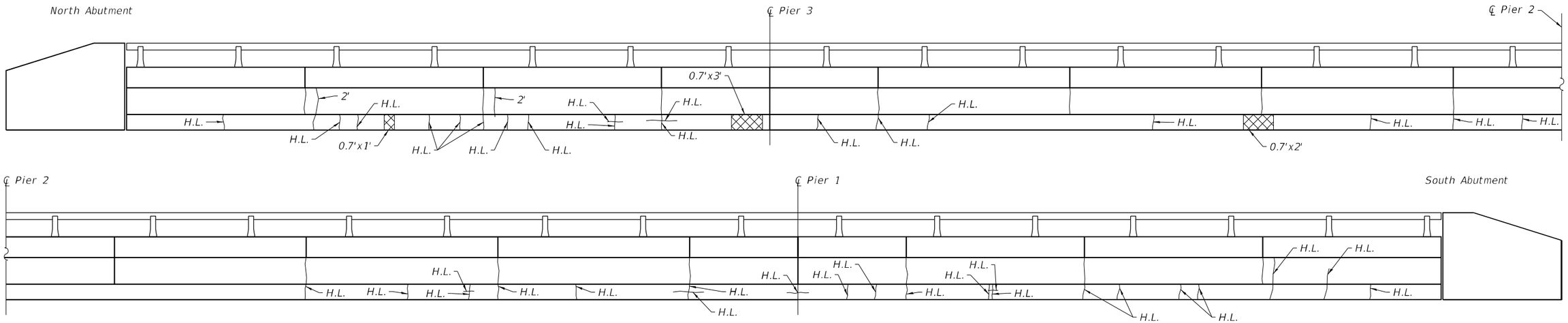


WEST RAILING INSIDE ELEVATION



WEST RAILING OUTSIDE ELEVATION

LEGEND

Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)

6' — Epoxy Crack Injection

H.L. — Hairline crack - not to be sealed

BILL OF MATERIAL

Item	Unit	SN 053-0125 Quantity
Structural Repair of Concrete (≤ 5")	Sq. Ft.	72.2
Epoxy Crack Injection	Foot	49.0

ESCA CONSULTANTS, INC.

USER NAME = nhc	DESIGNED - ELH	08/21	REVISED -		
ESCA PROJECT NO. 1352.06	CHECKED - SHL	08/21	REVISED -		
PLOT SCALE = 0:2 ':' / in.	DRAWN - NHC	10/21	REVISED -		
PLOT DATE = 12/7/2021	CHECKED - ELH	10/21	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET REPAIR
SN 053-0125 (NB)

SHEET 21 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	36
		CONTRACT NO. 66L75		
	ILLINOIS FED. AID PROJECT			

MODEL: PLOT
FILE NAME: Y:\IDOT\1352-06_66L75\CADD\SP SN 053-0124&125\053012466L75-21-ParapetRepairNB2.dgn

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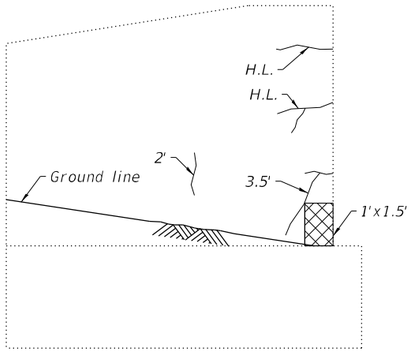
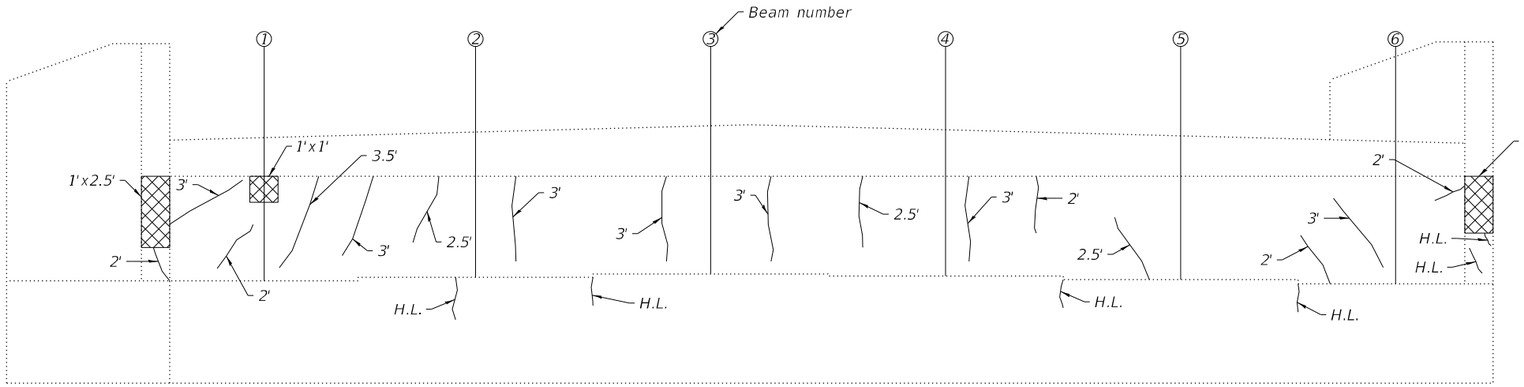
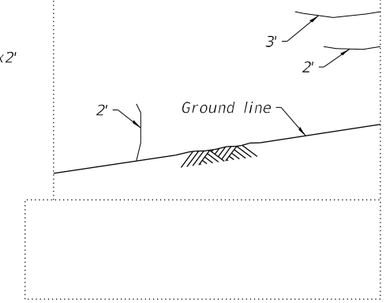


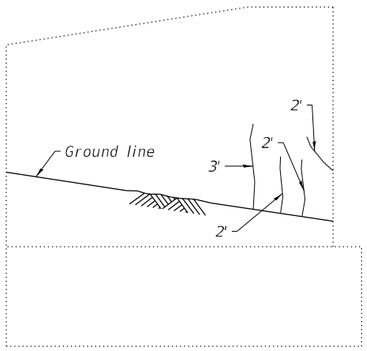
EAST WINGWALL



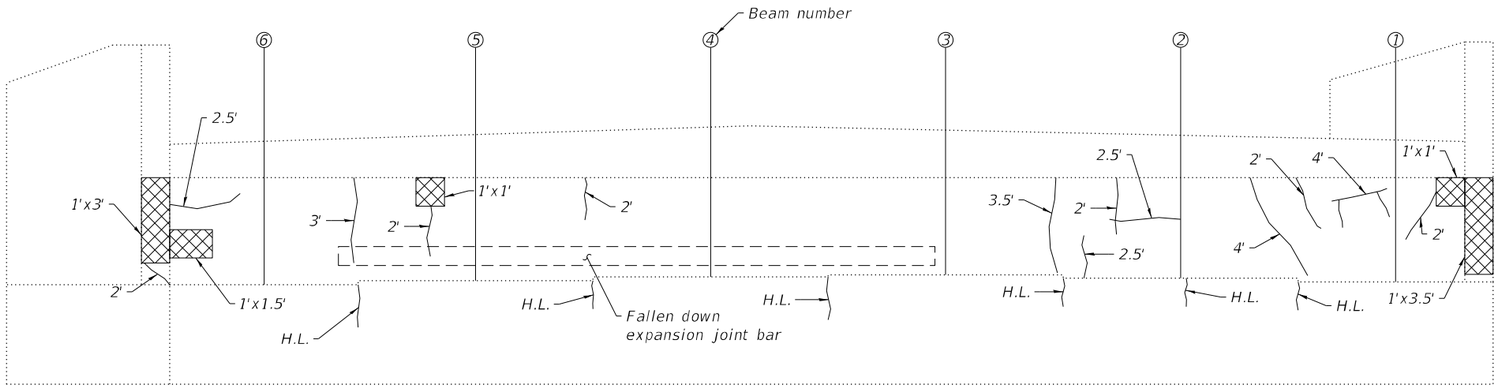
SOUTH ABUTMENT ELEVATION



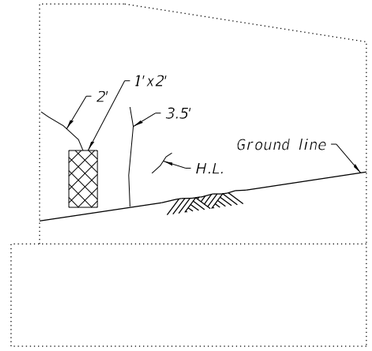
WEST WINGWALL



WEST WINGWALL



NORTH ABUTMENT ELEVATION



EAST WINGWALL

LEGEND

Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)

6' → Epoxy Crack Injection

H.L. → Hairline crack - not to be sealed

BILL OF MATERIAL

Item	Unit	SN 053-0124 Quantity
Structural Repair of Concrete (≤ 5")	Sq. Ft.	19.0
Epoxy Crack Injection	Foot	103.0

ESCA CONSULTANTS, INC.

USER NAME = nhc	DESIGNED - ELH	08/21	REVISED -
ESCA PROJECT NO. 1352.06	CHECKED - SHL	08/21	REVISED -
PLOT SCALE = 0:2 '-" / in.	DRAWN - NHC	08/21	REVISED -
PLOT DATE = 12/7/2021	CHECKED - ELH	08/21	REVISED -

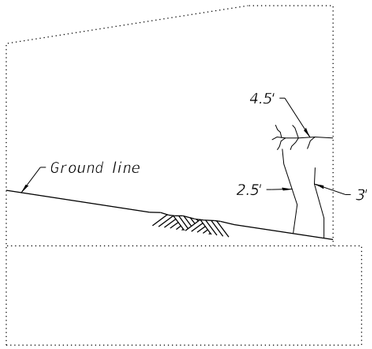
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT REPAIR
SN 053-0124 (SB)
SHEET 22 OF 30 SHEETS

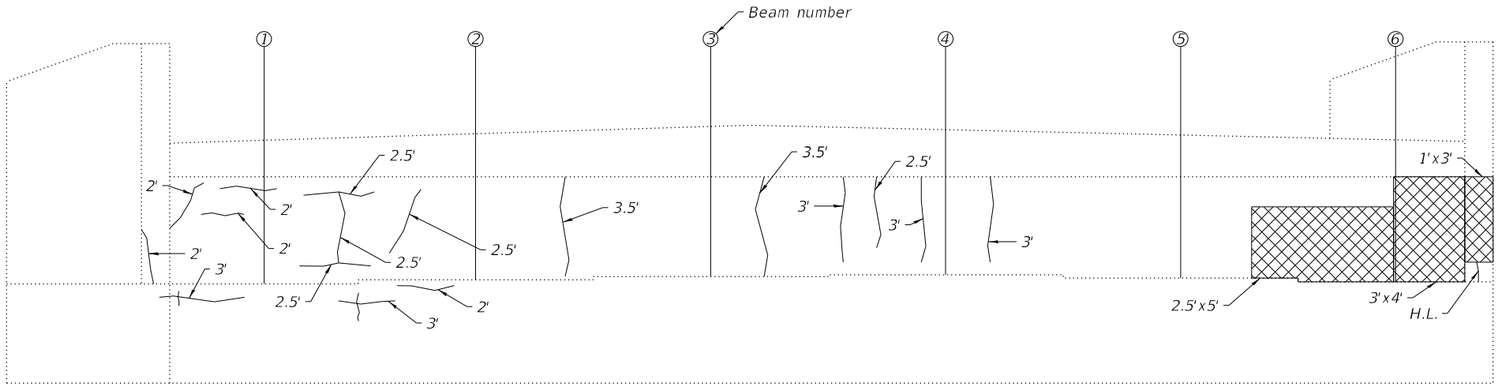
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	37
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		

MODEL: PLOT
FILE NAME: Y:\IDOT\1352-06_66L75\CADD\SP SN 053-0124&125\053012466L75-22-SBAbutRepair.dgn

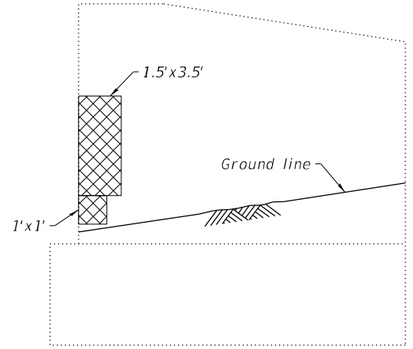
12/7/2021 9:18:29 AM



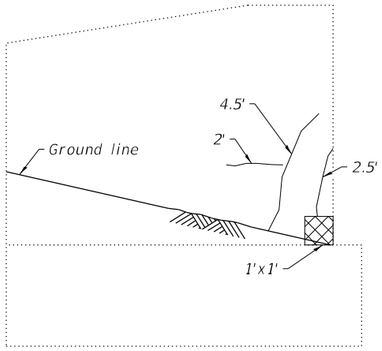
EAST WINGWALL



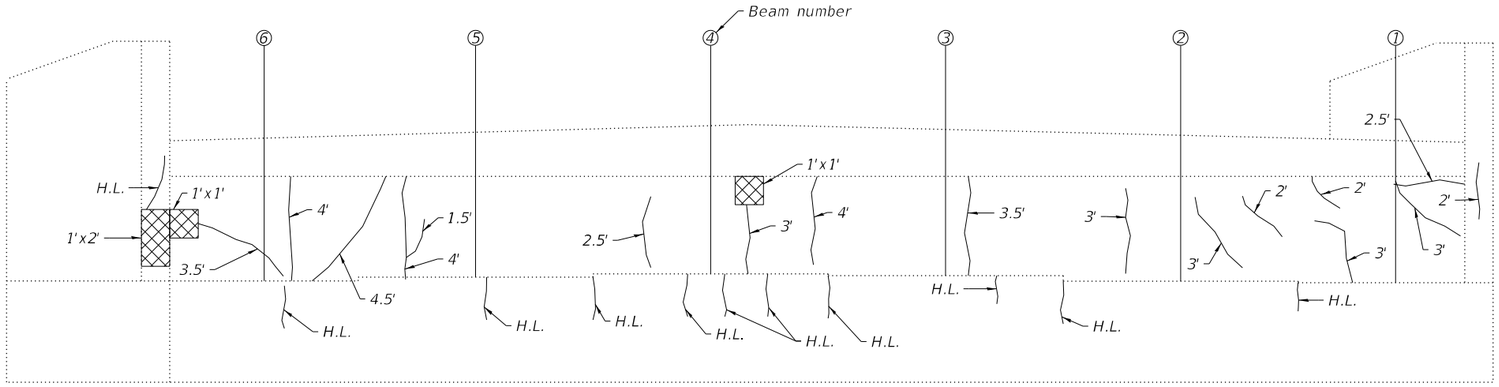
SOUTH ABUTMENT ELEVATION



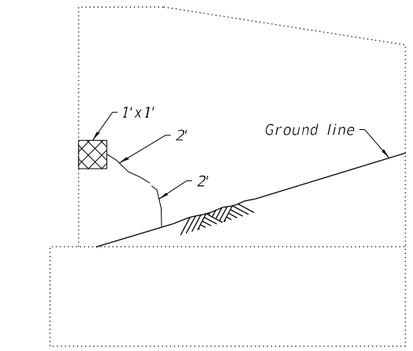
WEST WINGWALL



WEST WINGWALL



NORTH ABUTMENT ELEVATION



EAST WINGWALL

LEGEND

Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)

6' → Epoxy Crack Injection

H.L. → Hairline crack - not to be sealed

BILL OF MATERIAL

Item	Unit	SN 053-0125 Quantity
Structural Repair of Concrete (≤ 5")	Sq. Ft.	39.8
Epoxy Crack Injection	Foot	118.5

MODEL: PLOT
FILE NAME: X:\IDOT\1352-06_66L75\CADD\SP SN 053-0124&125\053012466L75-23-NBAbutRepair.dgn

12/7/2021 9:18:30 AM

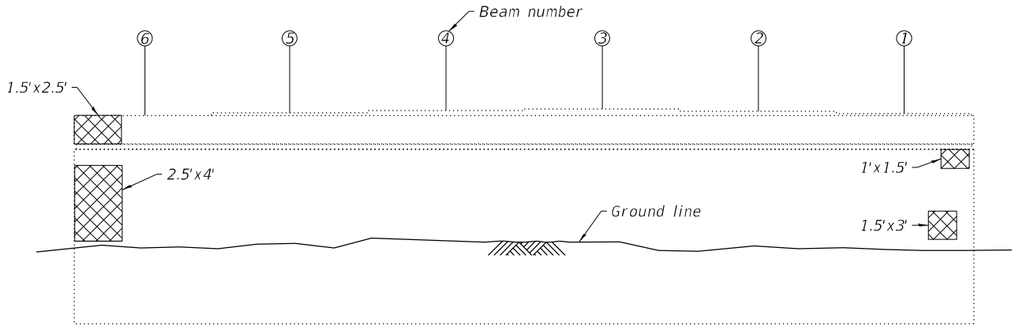
ESCA CONSULTANTS, INC.

USER NAME = nhc	DESIGNED - ELH	11/21	REVISED -	
ESCA PROJECT NO. 1352.06	CHECKED - SHL	11/21	REVISED -	
PLOT SCALE = 0:2 '-" / in.	DRAWN - NHC	11/21	REVISED -	
PLOT DATE = 12/7/2021	CHECKED - ELH	11/21	REVISED -	

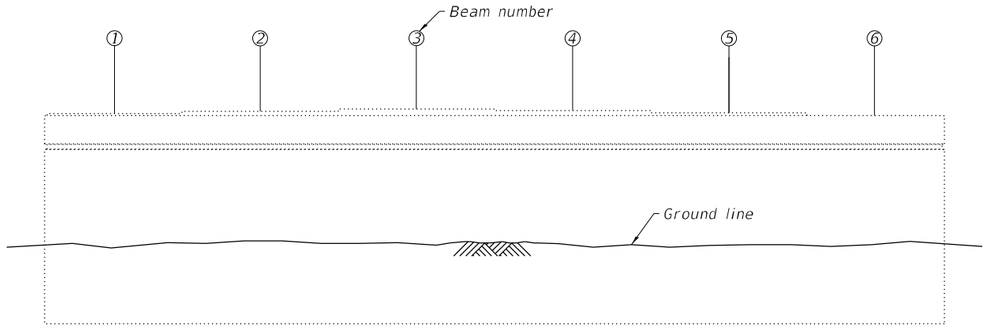
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT REPAIR
SN 053-0125 (NB)
SHEET 23 OF 30 SHEETS

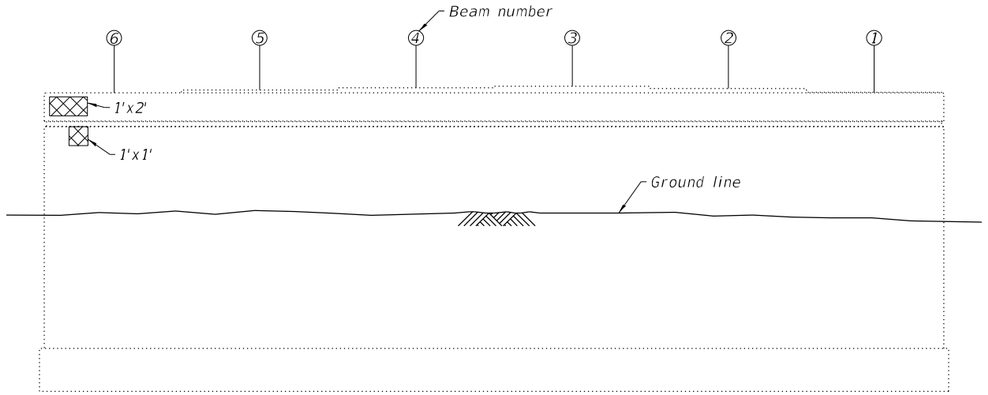
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	38
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		



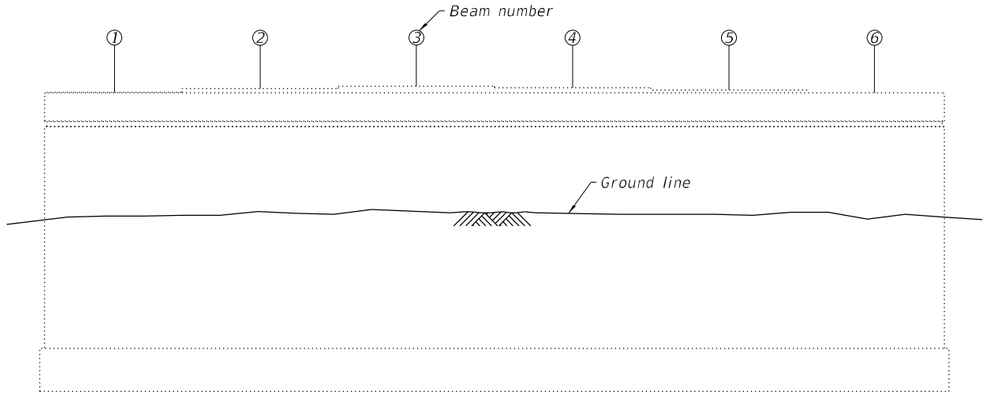
PIER 1 ELEVATION
(Looking north)



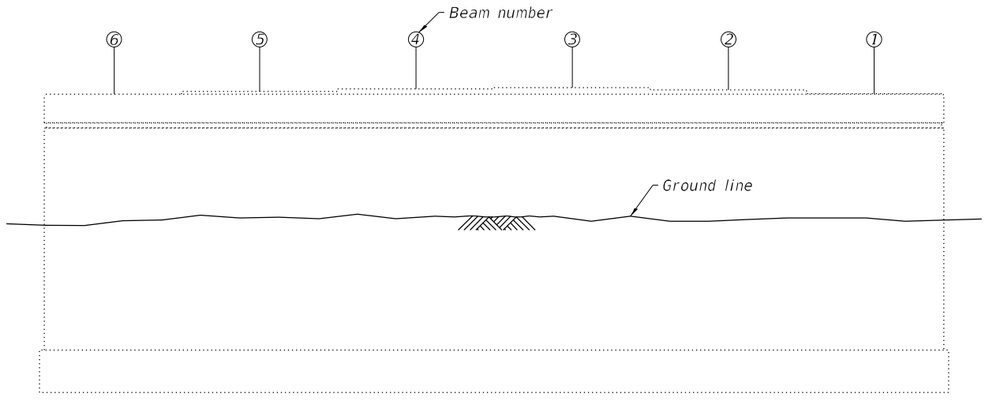
PIER 1 ELEVATION
(Looking south)



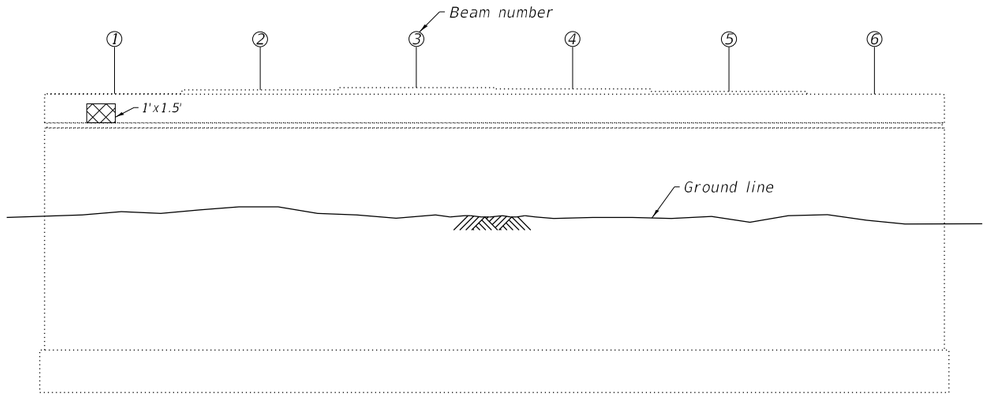
PIER 2 ELEVATION
(Looking north)



PIER 2 ELEVATION
(Looking south)



PIER 3 ELEVATION
(Looking north)



PIER 3 ELEVATION
(Looking south)

LEGEND

Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)

6' → Epoxy Crack Injection

H.L. → Hairline crack - not to be sealed

BILL OF MATERIAL

Item	Unit	SN 053-0124 Quantity
Structural Repair of Concrete (≤ 5")	Sq. Ft.	24.3
Epoxy Crack Injection	Foot	0.0

MODEL: PLOT
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12/7/2021 9:18:31 AM

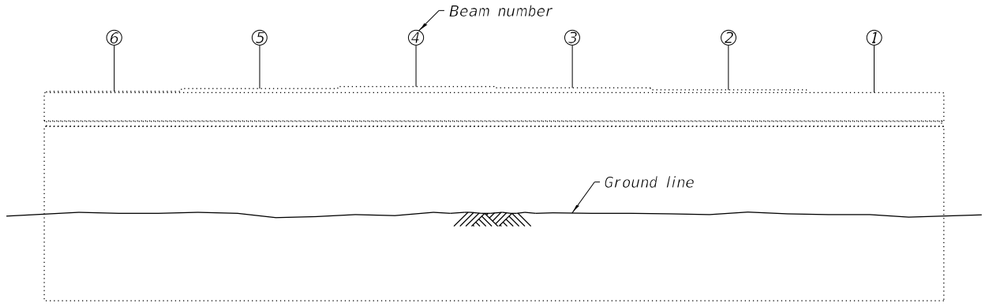
ESCA CONSULTANTS, INC.
CIVIL & STRUCTURAL ENGINEERS

USER NAME = nhc	DESIGNED - ELH	08/21	REVISED -		
ESCA PROJECT NO. 1352.06	CHECKED - SHL	08/21	REVISED -		
PLOT SCALE = 0:2 ':' / in.	DRAWN - NHC	08/21	REVISED -		
PLOT DATE = 12/7/2021	CHECKED - ELH	08/21	REVISED -		

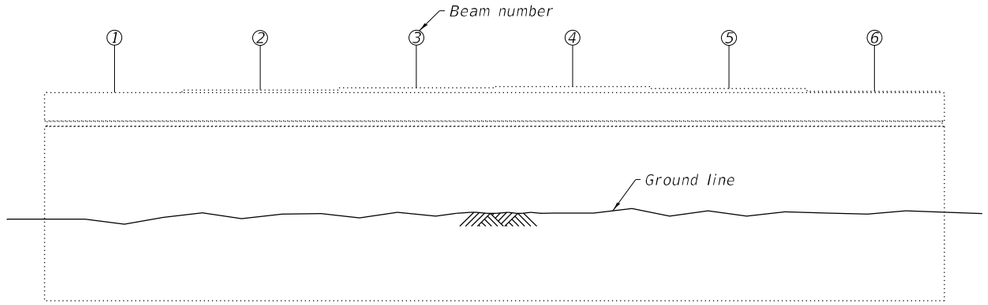
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER REPAIR
SN 053-0124 (SB)
SHEET 24 OF 30 SHEETS

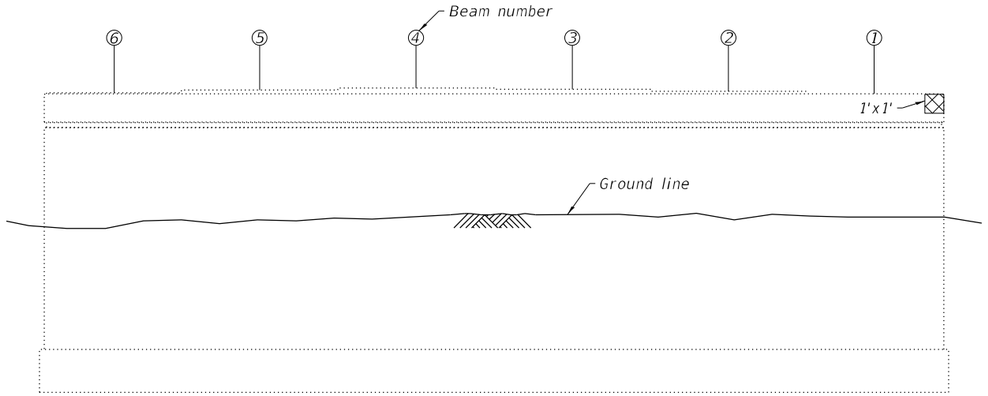
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	39
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		



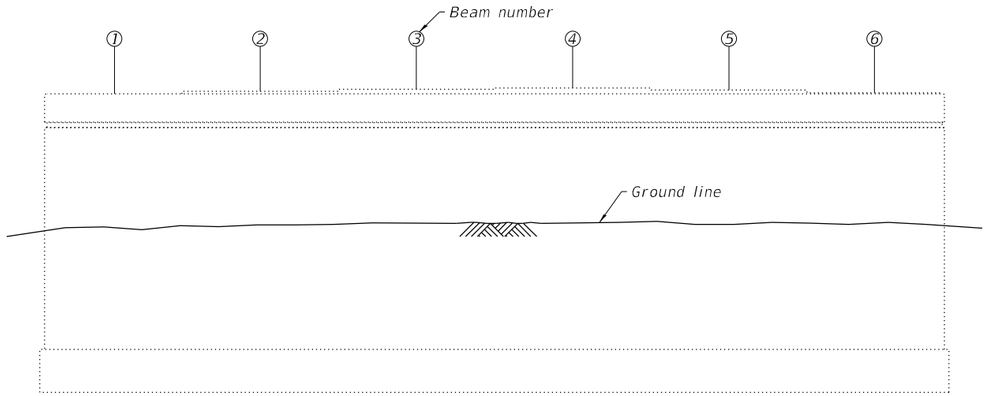
PIER 1 ELEVATION
(Looking north)



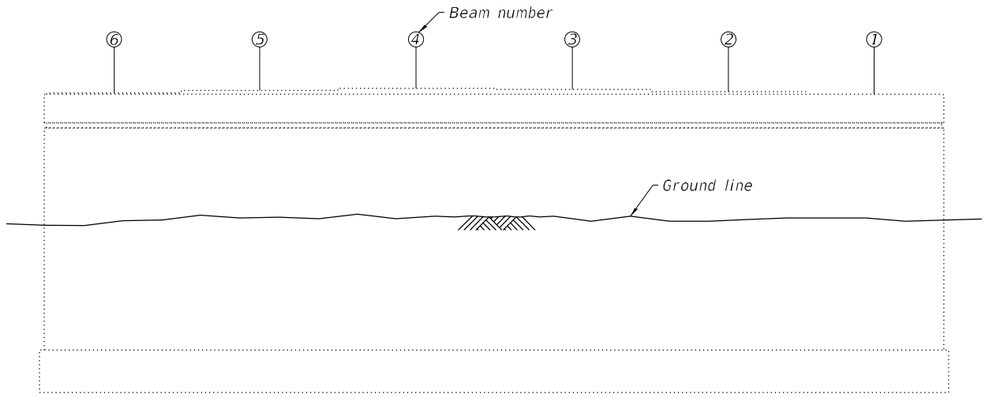
PIER 1 ELEVATION
(Looking south)



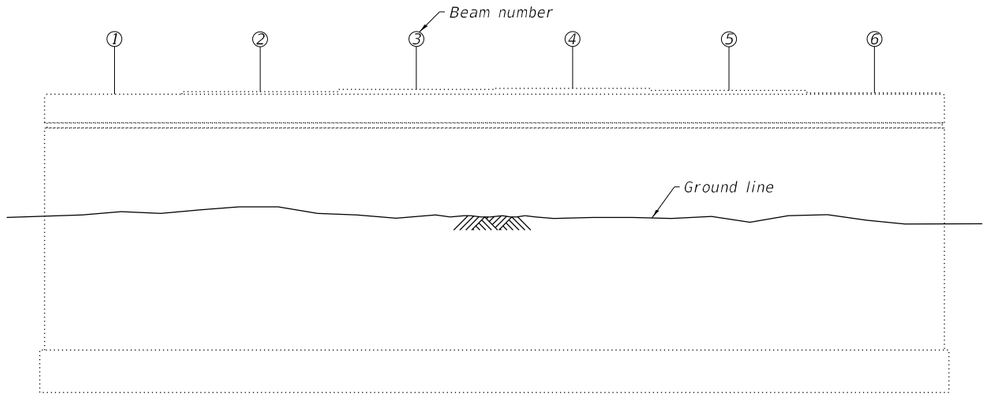
PIER 2 ELEVATION
(Looking north)



PIER 2 ELEVATION
(Looking south)



PIER 3 ELEVATION
(Looking north)



PIER 3 ELEVATION
(Looking south)

LEGEND

Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)

6' → Epoxy Crack Injection

H.L. → Hairline crack - not to be sealed

BILL OF MATERIAL

Item	Unit	SN 053-0125 Quantity
Structural Repair of Concrete (≤ 5")	Sq. Ft.	1.0
Epoxy Crack Injection	Foot	0.0

ESCA CONSULTANTS, INC.

USER NAME = nhc	DESIGNED - ELH 08/21	REVISED -	
ESCA PROJECT NO. 1352.06	CHECKED - SHL 08/21	REVISED -	
PLOT SCALE = 0:2 '-" / in.	DRAWN - NHC 08/21	REVISED -	
PLOT DATE = 12/7/2021	CHECKED - ELH 08/21	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER REPAIR
SN 053-0125 (NB)
SHEET 25 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	40
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		

MODEL: PLOT
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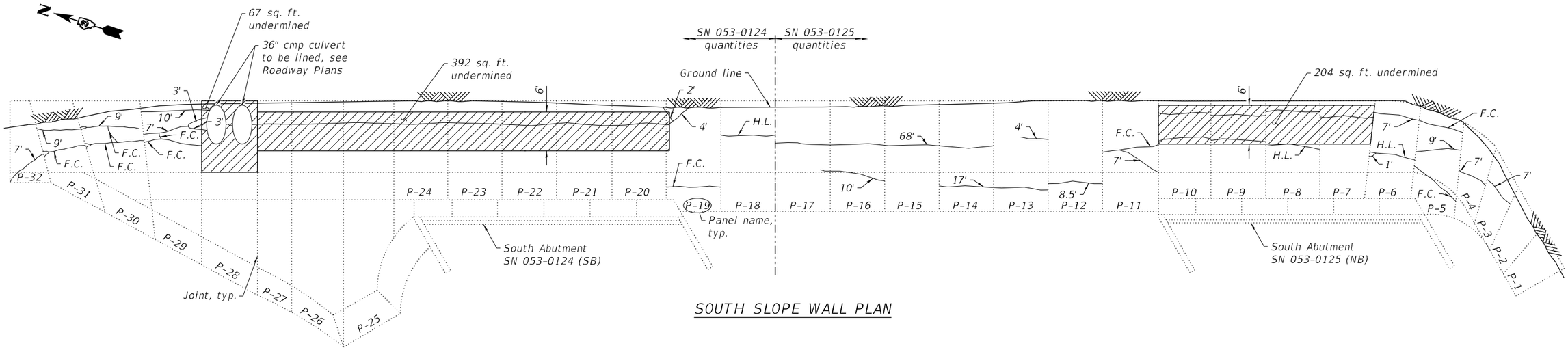
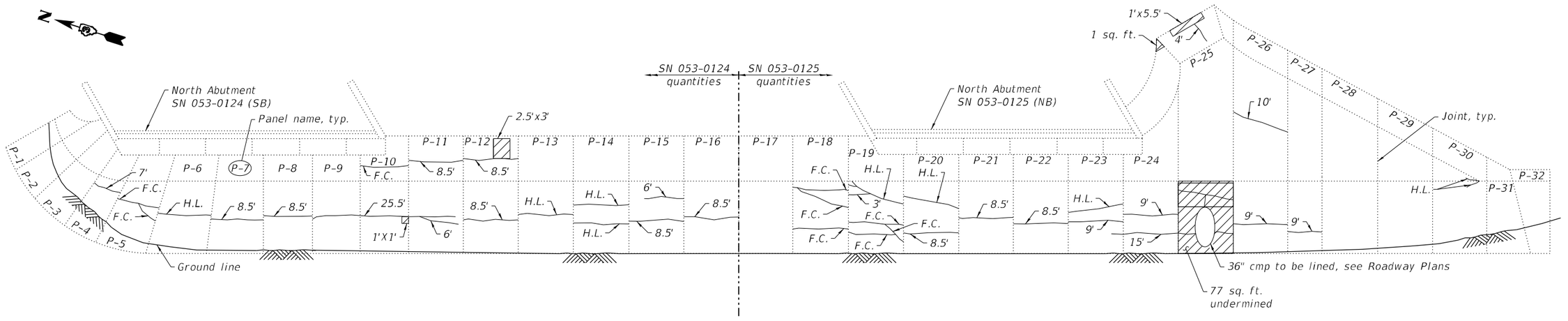


SOUTH SLOPE WALL PLAN



NORTH SLOPE WALL PLAN

LEGEND

Slope Wall Repair

6' — Slope Wall Crack Sealing

H.L. — Hairline crack - not to be sealed

F.C. — Filled crack - not to be sealed

BILL OF MATERIAL

Item	Unit	SN 053-0124	SN 053-0125	Quantity
Slope Wall Repair	Sq. Yd.	52	32	84
Slope Wall Crack Sealing	Foot	158.0	239.0	397.0
Slope Wall Slurry Pumping	Cu. Yd.	34	21	55

ESCA CONSULTANTS, INC. CIVIL & STRUCTURAL ENGINEERS

USER NAME = nhc	DESIGNED - ELH	11/21	REVISED -
ESCA PROJECT NO. 1352.06	CHECKED - SHL	11/21	REVISED -
PLOT SCALE = 0.2 '=' / in.	DRAWN - NHC	11/21	REVISED -
PLOT DATE = 12/7/2021	CHECKED - ELH	11/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SLOPE WALL REPAIR
SN 053-0124 (SB) & SN 053-0125 (NB)
SHEET 26 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	41
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		

MODEL: PLOT
FILE NAME: Y:\IDOT\1352-06_66L75\CADD\SP SN 053-0124&125\053012466L75-26-SlopeWallRepair.dgn
12/7/2021 9:18:33 AM

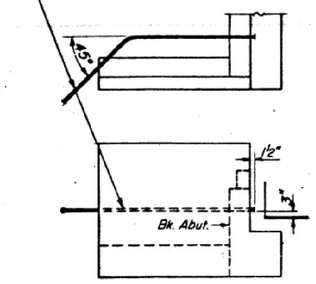
STATE OF ILLINOIS

~~DIVISION OF HIGHWAYS~~

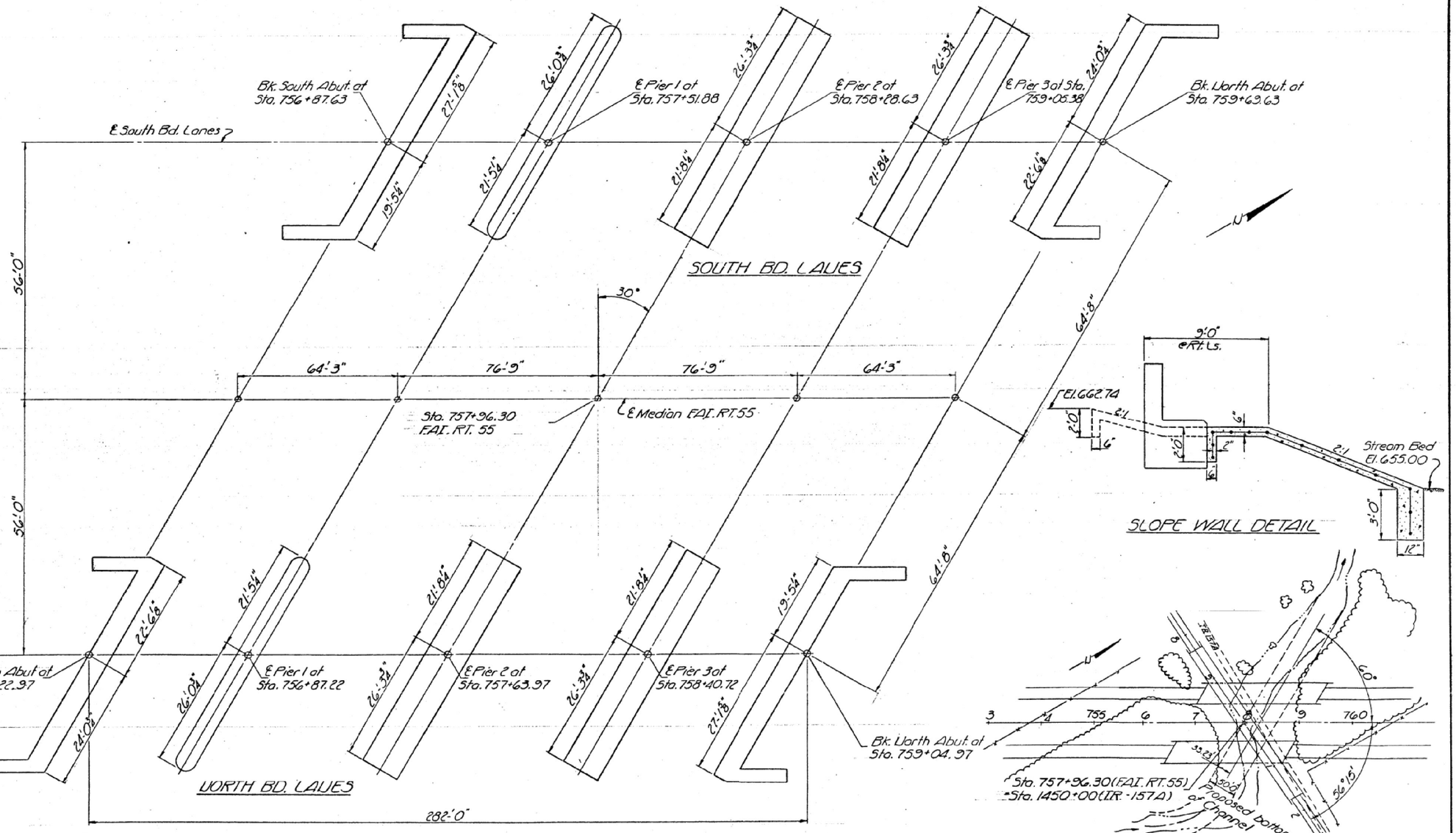
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	53-6B	LIVINGSTON	52	9
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		

SHEET NO. 2
19 SHEETS

Locate 2"ø Galv. Conduit (Sch. 40 Pipe) ±12" inside of fascia beam web and parallel to beam line. Extend to clear the wing wall and terminate at a point outside of shoulder. Thread and cap each end. Place conduit at the two outside corners of each dual bridge & all four corners of a single bridge. (4-Req'd) Cost Incidental



ELECTRICAL CONDUIT LOCATION



FOOTING LAYOUT

SLOPE WALL DETAIL

PROPOSED CHANNEL CHANGE

DESIGNED	A. V. Khanzode
CHECKED	J. M. Patel
DRAWN	J.D.
CHECKED	J.M.P.

EXAMINED Aug. 11 1971 Daniel F. Baumann Jr.
PASSED H.E. Baumann ENGINEER OF DESIGN
APPROVED Richard H. Hotterman CHIEF HIGHWAY ENGINEER

FOOTING LAYOUT
F.A.I. RT. 55 SEC. 53-6B
LIVINGSTON COUNTY
STA. 757+96.30

MODEL: PLOT
FILE NAME: Y:\IDOT\1352-06_66L75\CADD\SP SN 053-0124&125\053012 4-66L75-27-ExistingSlopeWall.dgn
12/7/2021 9:18:34 AM

ESCA CONSULTANTS, INC.

USER NAME = nhc	DESIGNED - ELH	08/21	REVISED -		
ESCA PROJECT NO. 1352.06	CHECKED - SHL	08/21	REVISED -		
PLOT SCALE = 0:2 ':' / in.	DRAWN - NHC	08/21	REVISED -		
PLOT DATE = 12/7/2021	CHECKED - ELH	08/21	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING SLOPE WALL – FOR INFORMATION ONLY
SN 053–0124 (SB) & SN 053–0125 (NB)
SHEET 27 OF 30 SHEETS

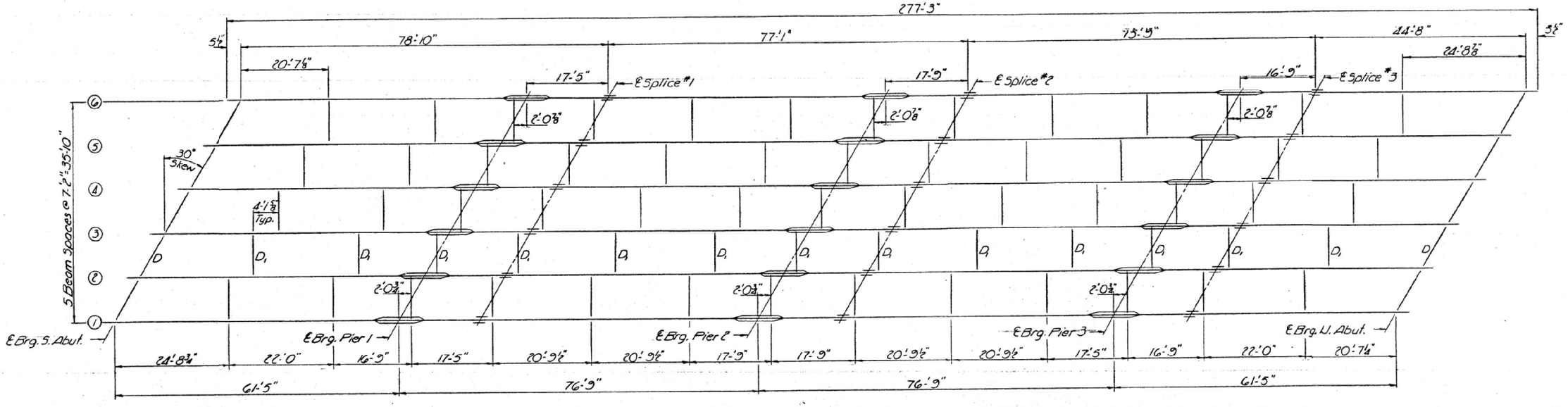
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	42
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS

~~DIVISION OF HIGHWAYS~~

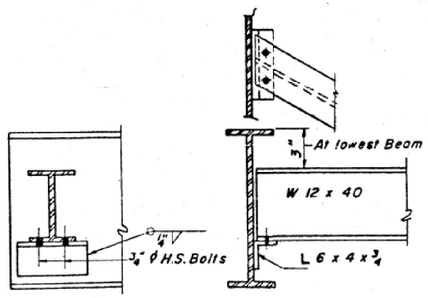
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 55	53-6B	LIVINGSTON	52	15
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 8
19 SHEETS

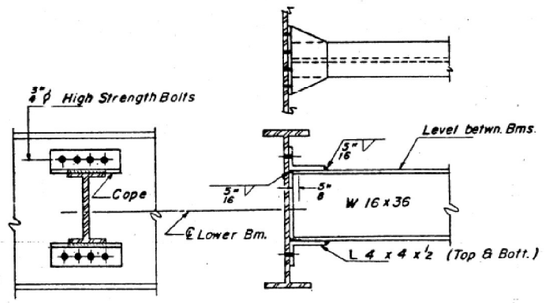


FRAMING PLAN

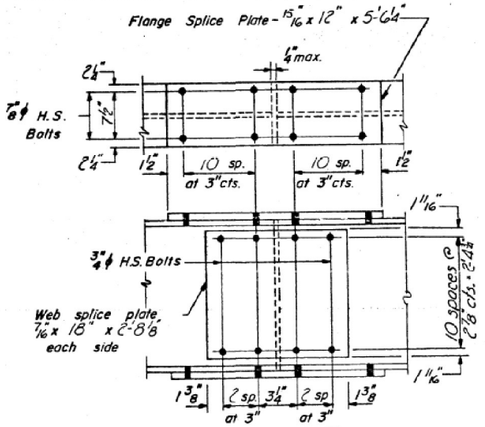
Typ. North and South Bd. Lanes
All Beams W 36 x 160



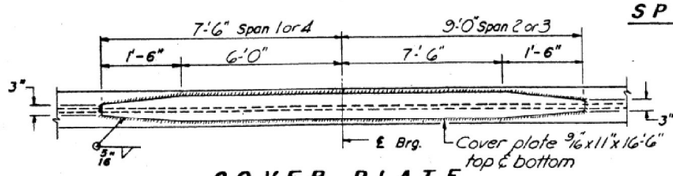
DIAPHRAGM D
20 Total Required



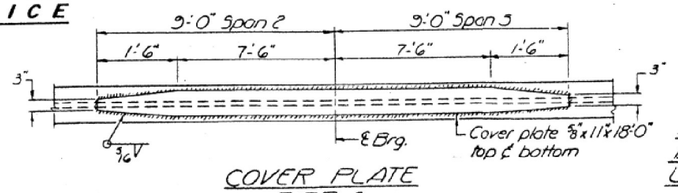
DIAPHRAGM D
130 Total Required



SPLICE



COVER PLATE
PIERS 1 & 3



COVER PLATE
PIER 2

DESIGNED	A.Y. Khayat
CHECKED	J.M. Patel
DRAWN	J.D.
CHECKED	J.M.P.

EXAMINED Aug 11 1971
PASSED M.E. Baumann
APPROVED Richard H. Holtermann

I-2-CD 9-1-65, 8-1-70

STRUCTURAL STEEL
FAI RT 55 SEC 53-6B
LIVINGSTON COUNTY
STA. 757+96.30

ESCA CONSULTANTS, INC.	USER NAME = nhc	DESIGNED - ELH	08/21	REVISED -
	ESCA PROJECT NO. 1352.06	CHECKED - SHL	08/21	REVISED -
	PLOT SCALE = 0.2 '' / in.	DRAWN - NHC	08/21	REVISED -
	PLOT DATE = 12/7/2021	CHECKED - ELH	08/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL STEEL – FOR INFORMATION ONLY
SN 053-0124 (SB) & SN 053-0125 (NB)
SHEET 28 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	43
		CONTRACT NO. 66L75		
	ILLINOIS FED. AID PROJECT			

MODEL: PLOT
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12/7/2021 9:18:41 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6) RS & 1	LIVINGSTON	142 105	
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SHEET NO. G4 OF 11 SHEETS

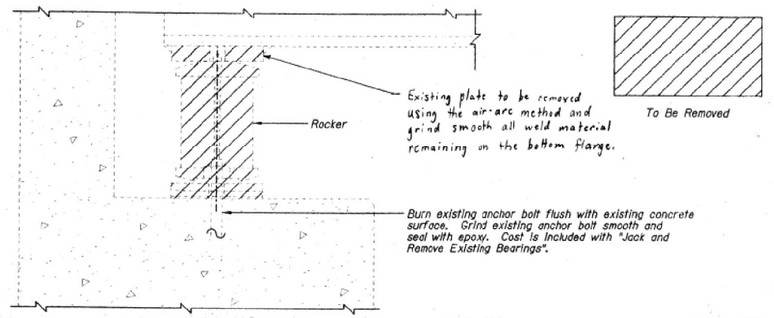
GENERAL BEARING NOTES

1.) The structural steel bearing plates and extensions for the elastomeric bearing assembly shall conform to the requirements of AASHTO M 270 Grade 36.

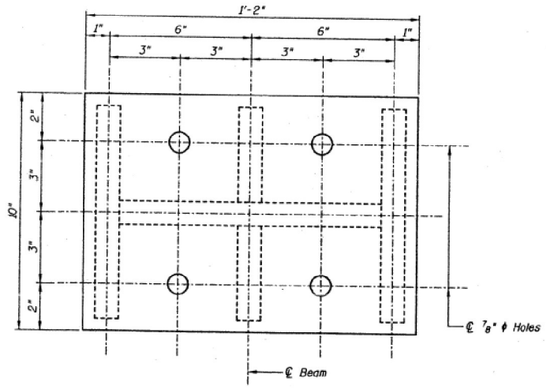
2.) Two $\frac{1}{8}$" adjusting shims, of the dimensions of the bottom plate, shall be provided for each bearing in addition to all other plates or shims.

3.) All bearing assembly accessories such as shims, steel extensions, side retainers, bolts and nuts shall be paid for as part of "Furnishing and Erecting Structural Steel".

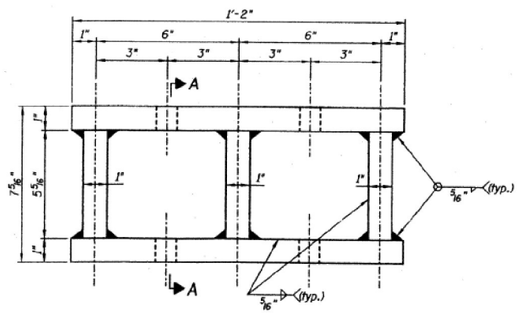
Interior Beam Reaction Table	
	Abutment
R_{ℓ} (k)	31
R_{t} (k)	38
Imp. (k)	10
R total (k)	79



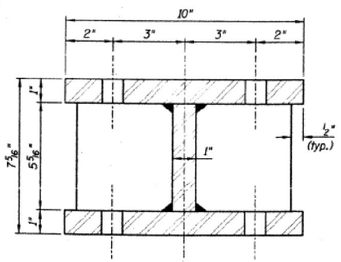
JACK AND REMOVE EXISTING BEARINGS AT ABUTMENTS



PLAN STEEL EXTENSION



ELEVATION STEEL EXTENSION



SECTION A-A

BILL OF MATERIAL

Item	Unit	053-0124	053-0125	Quantity
Jack And Remove Existing Bearings	Each	12	12	24

Min. Jacking Capacity = 45 tons.
1.5[@ + ½(ℓ + 1)]

NOTES:

1.) Work this sheet with sheets G5 & G6.
2.) Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thinkness dimensions.
3.) For location of Steel Extensions see Sheet G5.

BEARING DETAILS AND NOTES

INTERSTATE 55 OVER ROOKS CREEK
F.A.I. ROUTE 55 - SEC. (53-6) RS & I
LIVINGSTON COUNTY
STATION 757+96.30 (F.A.I. RTE. 55)
STRUCTURE NO. 053-0124 & NO. 053-0125

DESIGNED BY	Farnsworth GROUP	FILE NO.
J.M.L.	2709 McGraw Drive, Bloomington, Illinois 61704	24-6758
DRAWN BY	309/663-8435, 309/663-1871fax	DATE
D.J.M.		1-25-02
CHECKED BY		SHEET NO.
M.S.W.		OF

ESCA CONSULTANTS, INC.

USER NAME = nhc	DESIGNED - ELH	08/21	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURAL STEEL – FOR INFORMATION ONLY SN 053-0124 (SB) & SN 053-0125 (NB)
ESCA PROJECT NO. 1352.06	CHECKED - SHL	08/21	REVISED -		SHEET 29 OF 30 SHEETS
PLOT SCALE = 0:2 ':' / in.	DRAWN - NHC	08/21	REVISED -		
PLOT DATE = 12/7/2021	CHECKED - ELH	08/21	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	44
		CONTRACT NO. 66L75		
		ILLINOIS	FED. AID PROJECT	

MODEL: PLOT
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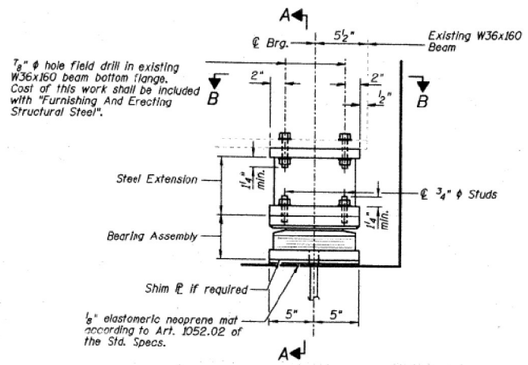
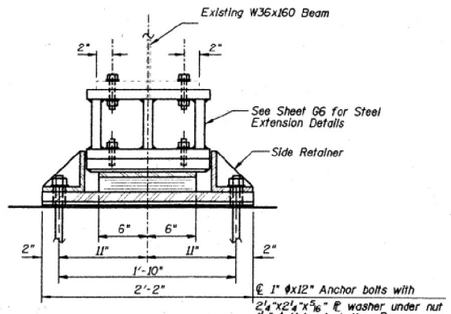
12/7/2021 9:18:49 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6) RS & I	LIVINGSTON	142	106
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SHEET NO. G5 OF 11 SHEETS

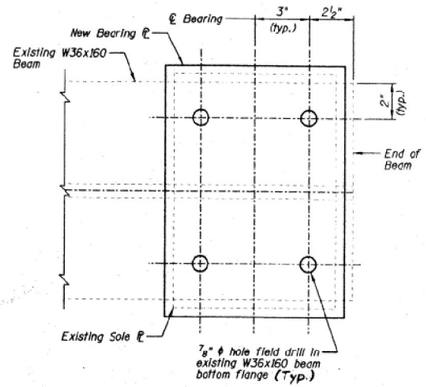


ELEVATION AT ABUTMENTS

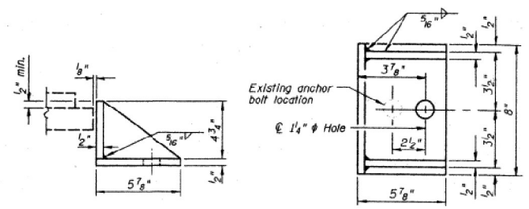


SECTION A-A

TYPE II ELASTOMERIC EXP. BRG.

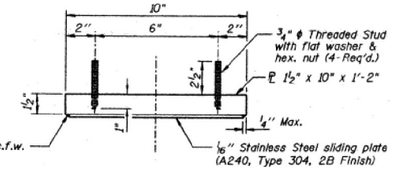


PLAN VIEW B-B

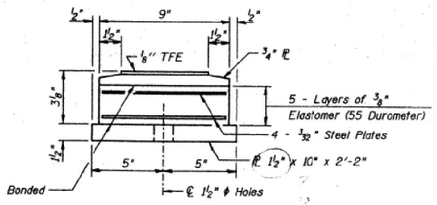


SIDE RETAINER

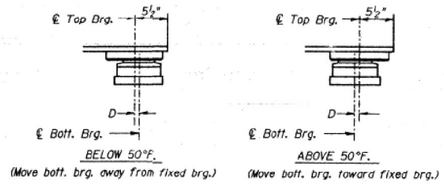
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



TOP BEARING ASSEMBLY

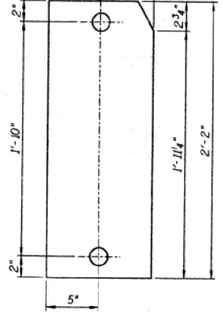


BOTTOM BEARING ASSEMBLY



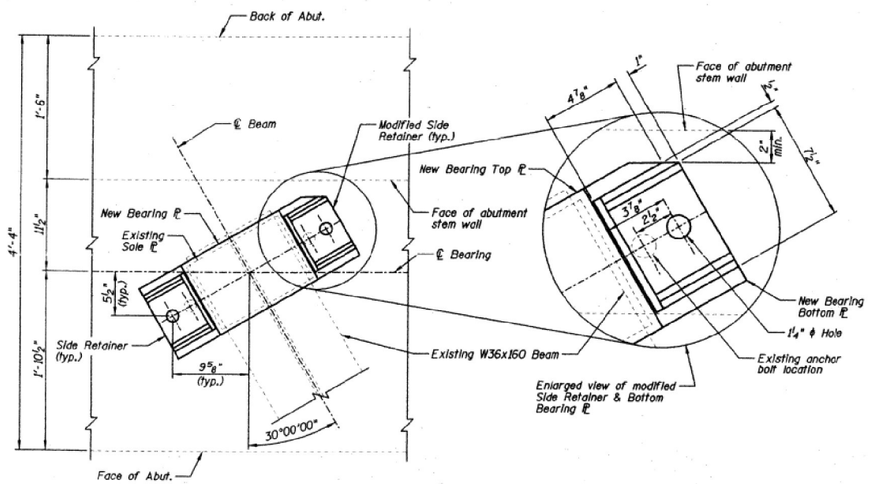
SETTING ANCHOR BOLTS AT EXP. BRG.

D=⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

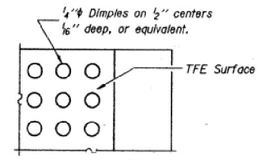


BOTTOM PLATE PLAN

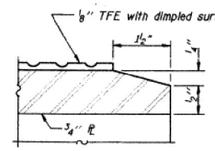
(1¼" thick plate)



BEARING PLAN AT ABUTMENTS



PLAN-TFE SURFACE



SECTION THRU TFE

Note: The ⅛" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces. Bonding of ⅛" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

BILL OF MATERIAL

Item	Unit	053-0124	053-0125	Quantity
Elastomeric Bearing Assembly Type II	Each	12	12	24
Furnishing and Erecting Structural Steel	Lbs.	4030	4030	8060

NOTES:

1.) See Sheet G4 for jacking and removing procedures for existing bearings and General Bearing Notes.
2.) Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.
3.) Diaphragm removal and reinstallation may be required to facilitate drilling holes. cost shall be included in the cost of Furnishing and Erecting Structural Steel.
4.) New Steel Extensions, Side Retainers, Shims ℄, Connection Bolts, and Anchor Bolts are included with Furnishing and Erecting Structural Steel.
5.) See sheet G6 for Anchor Bolt Installation.

BEARING DETAILS - TYPE II

INTERSTATE 55 OVER ROOKS CREEK
F.A.I. ROUTE 55 - SEC. (53-6) RS & I
LIVINGSTON COUNTY
STATION 757+96.30 (F.A.I. RTE. 55)
STRUCTURE NO. 053-0124 & NO. 053-0125

DESIGNED BY	Farnsworth GROUP	FILE NO.
J.M.L.	3709 McGraw Drive Bloomington, Illinois 61704 309/663-8435 309/663-1671 fax	24-6758
DRAWN BY D.J.M.		DATE 1-25-02
CHECKED BY M.S.W.		SHEET NO. OF

ESCA CONSULTANTS, INC.	USER NAME = nhc	DESIGNED - ELH 08/21	REVISED -
	ESCA PROJECT NO. 1352.06	CHECKED - SHL 08/21	REVISED -
	PLOT SCALE = 0.2 ' / in.	DRAWN - NHC 08/21	REVISED -
	PLOT DATE = 12/7/2021	CHECKED - ELH 08/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL STEEL – FOR INFOMATION ONLY
SN 053-0124 (SB) & SN 053-0125 (NB)
SHEET 30 OF 30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR, BRR	LIVINGSTON	49	45
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		

MODEL: PLOT
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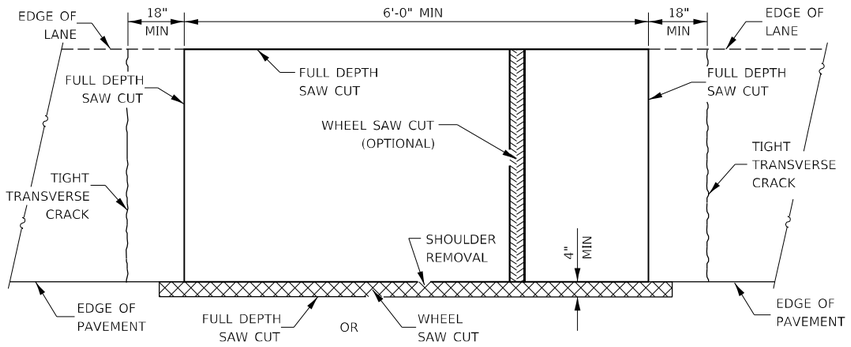
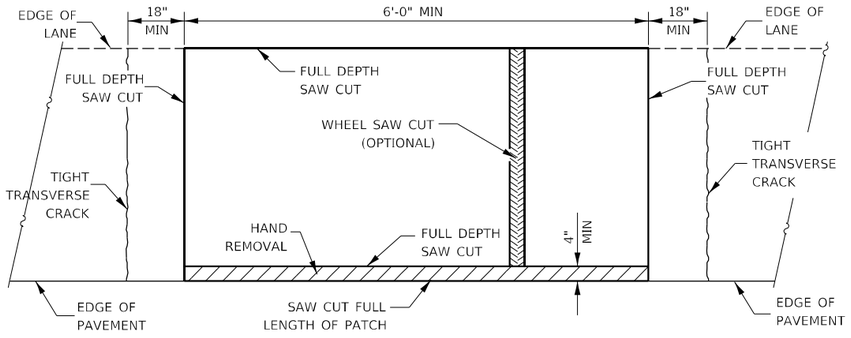


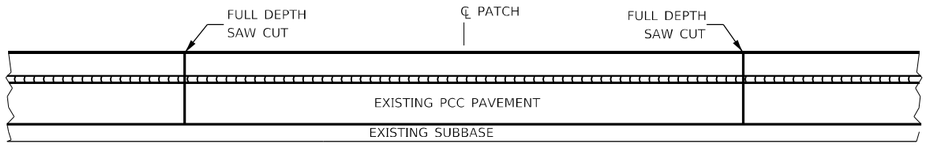
PAVEMENT SAWING DETAIL

(HMA SHOULDER)

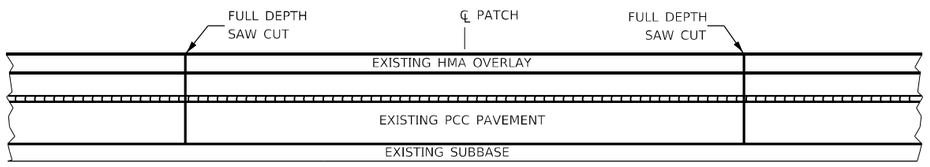


PAVEMENT SAWING DETAIL

(PCC SHOULDER)

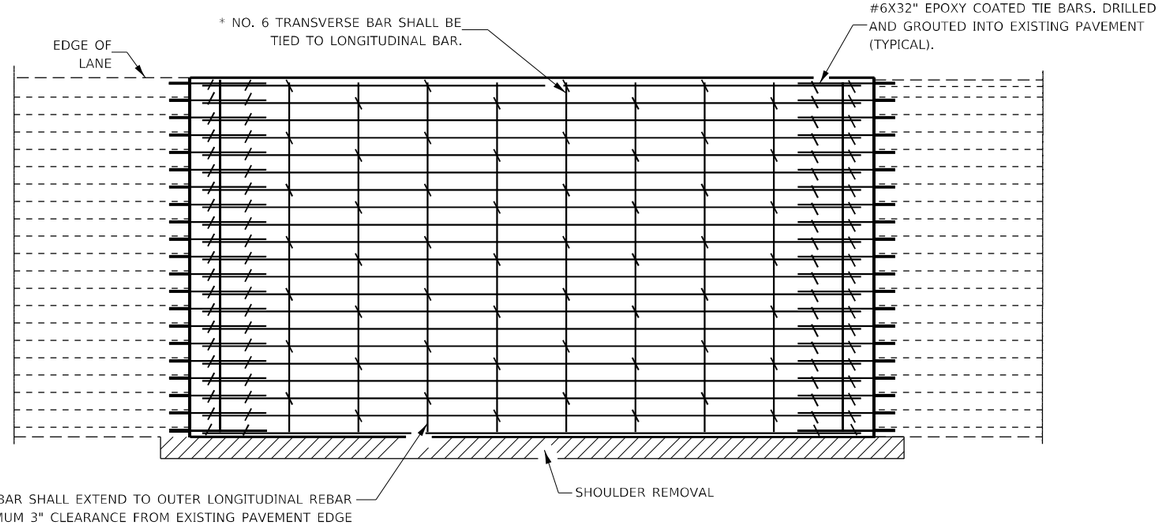


EXISTING PAVEMENT WITHOUT HMA SURFACE

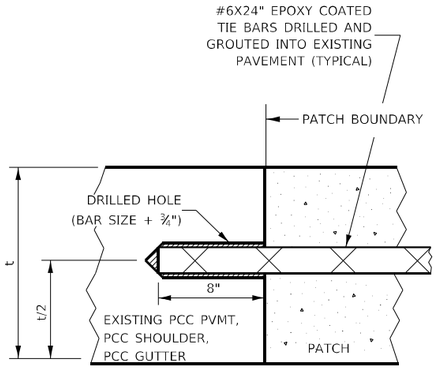


EXISTING PAVEMENT WITH HMA SURFACE

PAVEMENT SAWING DETAIL FOR CLASS A PATCHING (CRC PAVEMENT)



PAVEMENT REINFORCEMENT DETAIL



LONGITUDINAL CONSTRUCTION JOINT

PATCHES MORE THAN 20' IN LENGTH SHALL BE TIED TO ADJACENT PAVEMENT, PCC SHOULDERS OR PCC CURB AND GUTTER WITH #6x24" EPOXY CODATED TIE BARS AT 36" CENTERS.

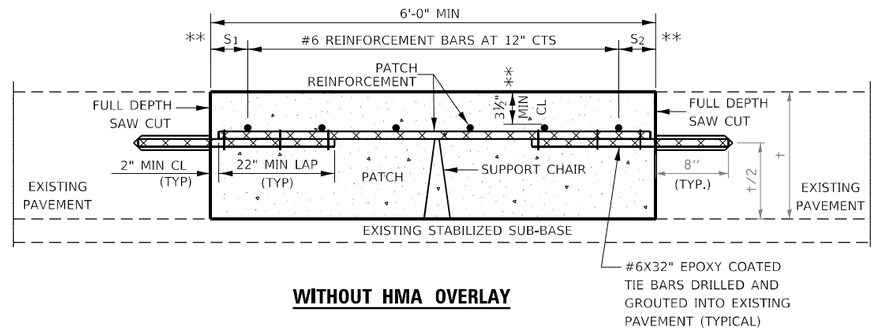
NOTES:

EXISTING LONGITUDINAL REINFORCEMENT SPACING; ±6".

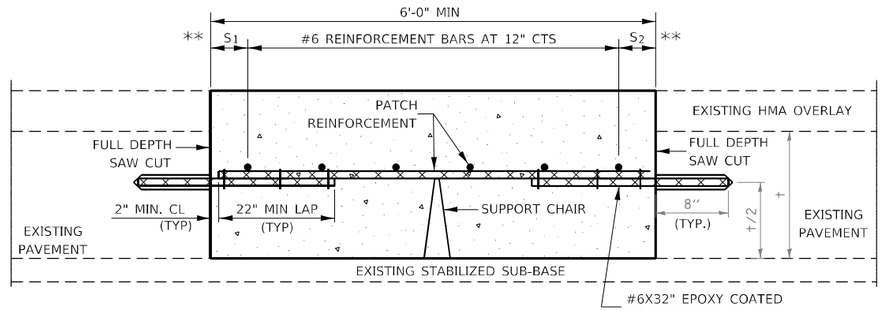
SPACING OF NEW LONGITUDINAL REINFORCEMENT AND NEW LONGITUDINAL TIE BARS SHALL MATCH SPACING OF EXISTING REINFORCEMENT AND SHALL BE TIED TOGETHER WITH A MINIMUM OF TWO TIES PER BAR.

* EVERY THIRD INTERSECTION MUST BE TIED. WHEN THE MINIMUM CLEARANCE CANNOT BE OBTAINED WITH THE TRANSVERSE REBAR ON TOP, THEN THE TRANSVERSE REBAR SHALL BE TIED TO THE BOTTOM OF THE LONGITUDINAL REBAR.

** VARIABLE: WHERE S_1 AND S_2 ARE 2½" MIN. AND 12" MAX.



WITHOUT HMA OVERLAY



WITH HMA OVERLAY

PATCHING DETAIL FOR CLASS A PATCHING (CRC PAVEMENT)

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ESCA CONSULTANTS, INC.

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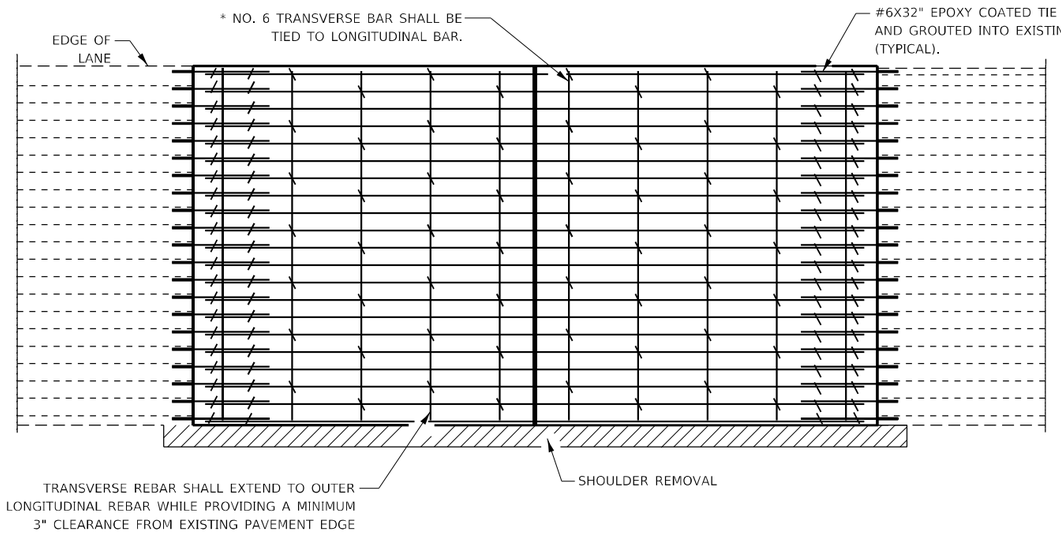
ESCA PROJECT NO. 1321.10	DRAWN - NHC	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 12/7/2021	DATE - 11/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

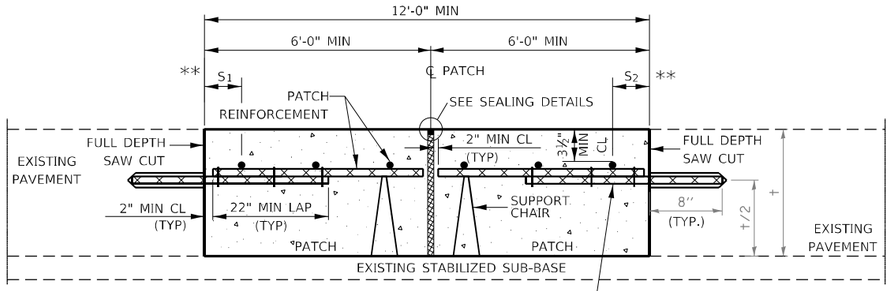
CLASS A PATCHING DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR,BRR	LIVINGSTON	49	46
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		



PAVEMENT REINFORCEMENT DETAIL



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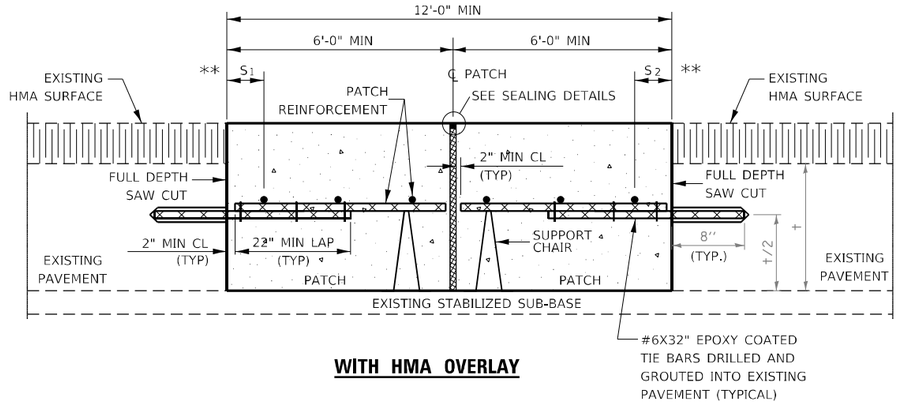
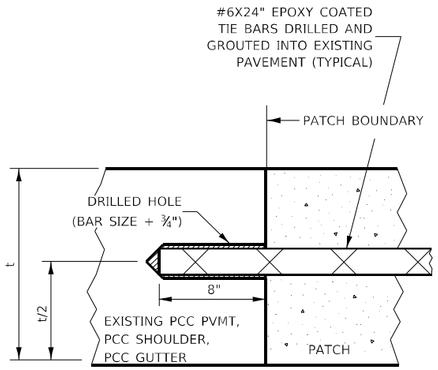


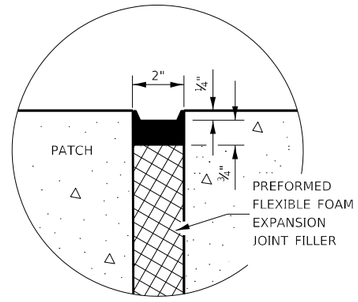
WITH HMA OVERLAY

CLASS A PATCH WITH EXPANSION JOINT

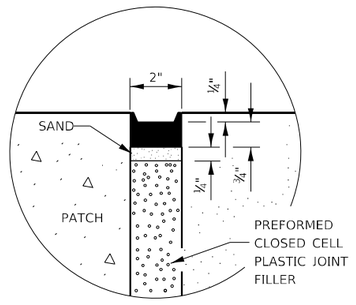


LONGITUDINAL CONSTRUCTION JOINT

PATCHES MORE THAN 20' IN LENGTH SHALL BE TIED TO ADJACENT PAVEMENT, PCC SHOULDERS OR PCC CURB AND GUTTER WITH #6x24" EPOXY COATED TIE BARS AT 36" CENTERS.



SEALING DETAIL



SEALING DETAIL

NOTES:

EXISTING LONGITUDINAL REINFORCEMENT SPACING; ±6".

SPACING OF NEW LONGITUDINAL REINFORCEMENT AND NEW LONGITUDINAL TIE BARS SHALL MATCH SPACING OF EXISTING REINFORCEMENT AND SHALL BE TIED TOGETHER WITH A MINIMUM OF TWO TIES PER BAR.

∗ EVERY THIRD INTERSECTION MUST BE TIED. WHEN THE MINIMUM CLEARANCE CANNOT BE OBTAINED WITH THE TRANSVERSE REBAR ON TOP, THEN THE TRANSVERSE REBAR SHALL BE TIED TO THE BOTTOM OF THE LONGITUDINAL REBAR.

∗∗ VARIABLE: WHERE S_1 AND S_2 ARE 2½" MIN. AND 12" MAX.

MODEL: PLOT
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ESCA CONSULTANTS, INC.

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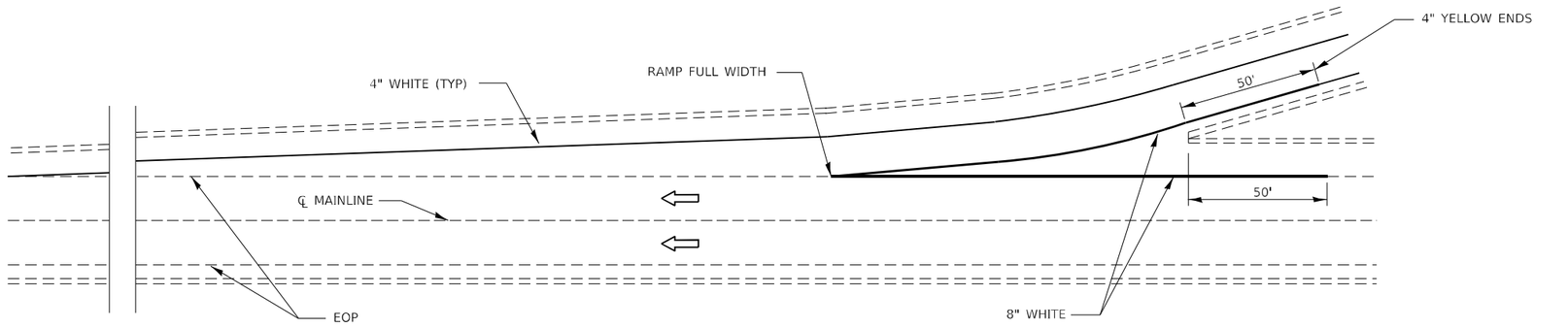
ESCA PROJECT NO. 1321.10	DRAWN - NHC	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 12/7/2021	DATE - 11/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

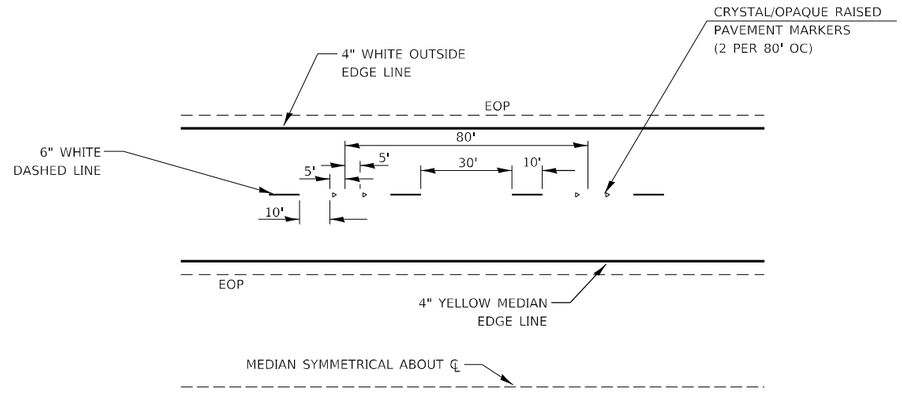
CLASS A PATCHING DETAILS

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

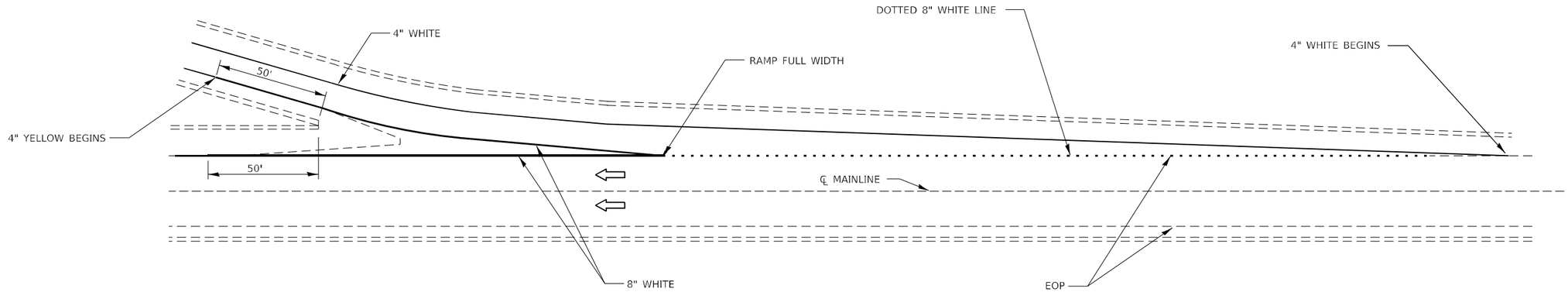
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR,BRR	LIVINGSTON	49	47
		CONTRACT NO. 66L75		
	ILLINOIS	FED. AID PROJECT		



TYPICAL PAVEMENT MARKING FOR ENTRANCE RAMP TERMINALS



TYPICAL PAVEMENT MARKINGS



TYPICAL PAVEMENT MARKINGS FOR EXIT RAMP TERMINALS

780-12

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ESCA CONSULTANTS, INC.

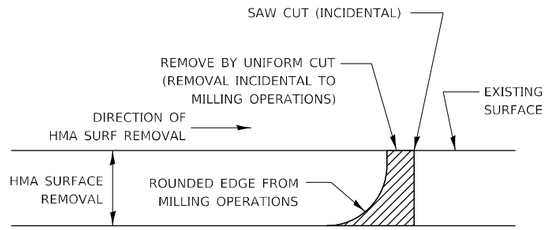
USER NAME = nhc	DESIGNED - ELH	REVISED -
ESCA PROJECT NO. 1321.10	DRAWN - NHC	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 12/7/2021	DATE - 11/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR,BRR	LIVINGSTON	49	48
		CONTRACT NO. 66L75		
	ILLINOIS FED. AID PROJECT			



NOTE:

WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL

HMA DETAIL AT BUTT JOINTS

406-8

MODEL: PLOT
FILE NAME: Y:\IDOT\1321-10_66L75\CADD\Highway\CADD Sheets\D366L75-sht-detail605.dgn

ESCA CONSULTANTS, INC.

USER NAME = nhc	DESIGNED - ELH	REVISED -
ESCA PROJECT NO. 1321.10	DRAWN - NHC	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED - ELH	REVISED -
PLOT DATE = 12/7/2021	DATE - 11/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(53-6B)BJR,BRR	LIVINGSTON	49	49
		CONTRACT NO. 66L75		
	ILLINOIS FED. AID PROJECT			