

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 BNSF RR	COOK	20	1
		ILLINOIS	CONTRACT NO. 62U00	

PROPOSED HIGHWAY PLANS

F.A.I. ROUTE 55 (I-55)
SECTION FAI 55 22 BNSF RR
STEEL GIRDER REPAIR
COOK COUNTY

FOR INDEX OF SHEETS AND GENERAL NOTES, SEE SHEET NO. 2

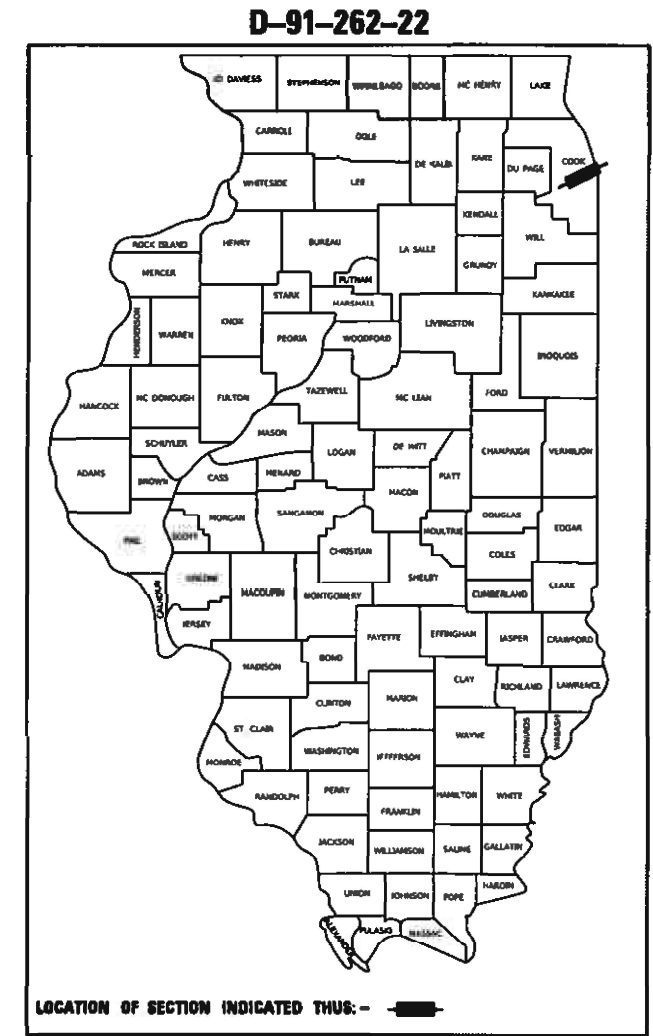
TRAFFIC DATA

I-55
2021 ADT = 80150 VPD
POSTED SPEED LIMIT = 55 MPH

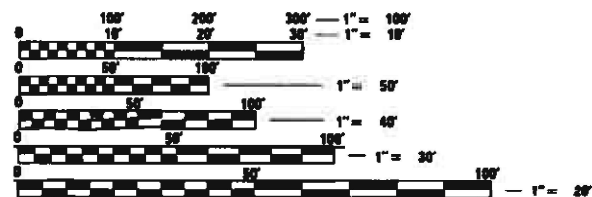
PROJECT LOCATED IN THE CITY OF CHICAGO

LOCATION OF IMPROVEMENTS
RR-BNSF WEST BRIDGE OVER I-55
STRUCTURE NO. 016-0020

C-91-315-22
R 12 E

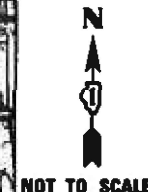
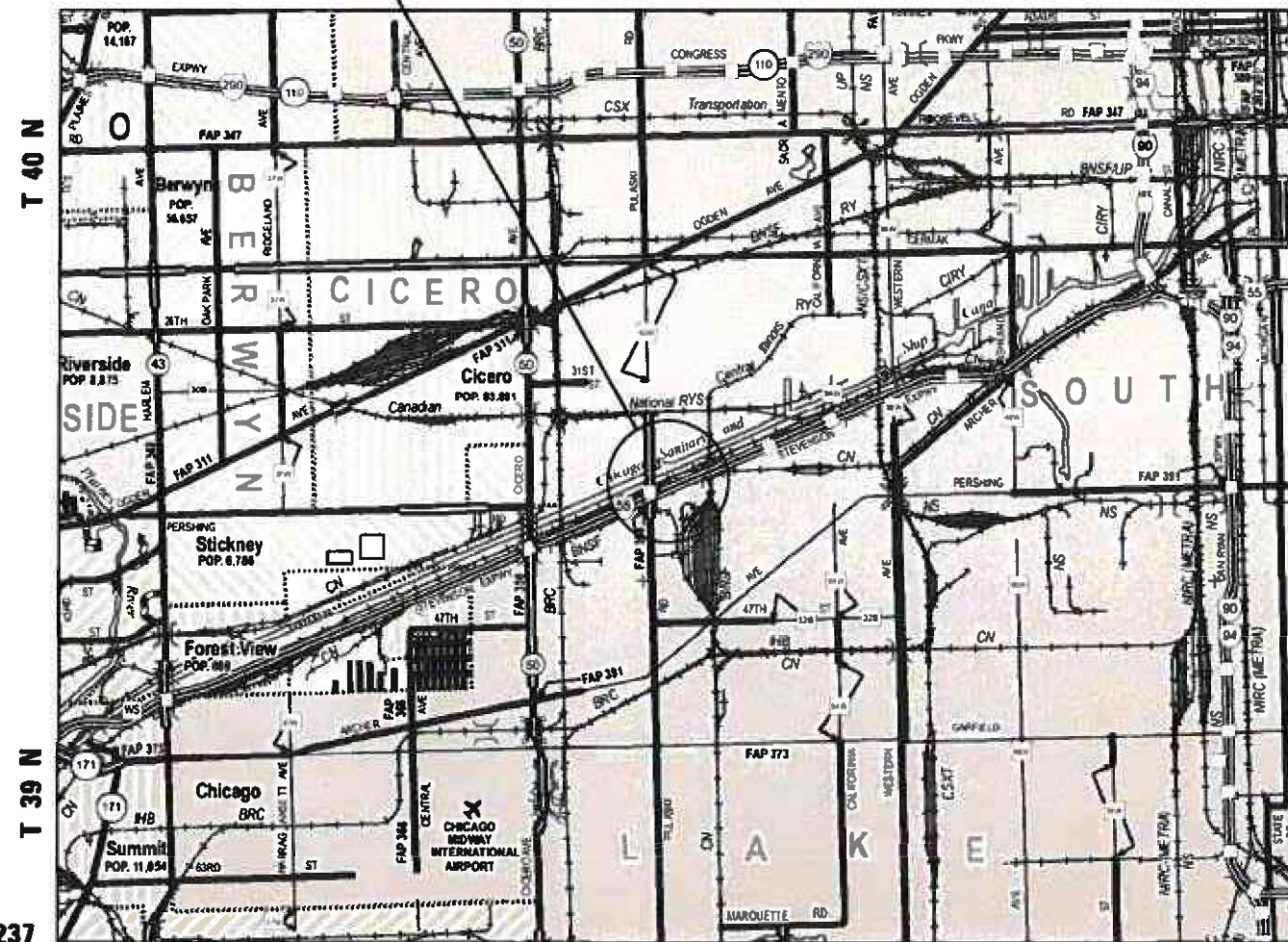


<i>Abdelmehdi Yari</i> Abdelmehdi Hadji, P.E. Lic. No. 062.071763 Expires: 11/30/2023 ABNA ENGINEERING (SHTS 2-10)	SEAL 1/30/2023
<i>Stephen E. Alsbury</i> Stephen E. Alsbury, S.E. Lic. No. 081.5261 Expires: 11/30/2024 ABNA ENGINEERING (SHTS 11-18)	SEAL 1/30/2023



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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



GROSS LENGTH = 291 FT. = 0.06 MILE
NET LENGTH = 291 FT. = 0.06 MILE

PROJECT ENGINEER PREVEEN KAINI, P.E. 847-705-4237
PROJECT MANAGER J. ALAIN MIDY, P.E. 847-221-3056

CONTRACT NO. 62U00 (MCHD CLAIM NUMBER - 836022)



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED January 31 20 23
Joseph P. ... REGIONAL ENGINEER
March 24, 2023
... ENGINEER OF DESIGN AND ENVIRONMENT
March 24, 2023
Stephen M. ... DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOURS NOTIFICATION REQUIRED).
- NO CONSTRUCTION SHALL BEGIN UNTIL ALL PROPER TEMPORARY SIGNS AND BARRICADES HAVE BEEN INSTALLED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE LOCAL MUNICIPALITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES INCLUDING THOSE ATTACHED TO THE STRUCTURES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR (847)-705-4155 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK AND START OF WEEKEND SHUTDOWN. WEEKEND SHUTDOWN SHALL BE FROM FRIDAY 9 PM WITH ALL LANES OPEN MONDAY 5AM.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO FIELD VARIATION. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATION SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR QUANTITY ACTUALLY FURNISHED BASED ON THE UNIT PRICE BID FOR THE WORK.
- TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND TO ANY REQUEST MADE BY THE ENGINEER FOR CORRECTION WITHIN TWO HOURS FROM THE TIME OF NOTIFICATION.
- ALL SAW CUTTING REQUIRED SHALL BE INCIDENTAL TO CORRESPONDING PAY ITEMS AND SHALL BE PERFORMED PRIOR TO BEGINNING REMOVALS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ASSURE THAT NO DEBRIS FALLS INTO THE PAVEMENTS BELOW THE STRUCTURES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE ASSOCIATED PAY ITEMS.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVALS SHOWN ON THE PLANS SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DEPARTMENT.
- THE CONTRACTOR SHALL REQUEST AND GAIN THE APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOTLCS.COM TWENTY (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP AND SHOULDER CLOSURES. THIS ADVANCE NOTIFICATION IS CALCULATED BASED ON WORKWEEK OF MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS OR HOLIDAYS.

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701446-11	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX SHEETS, HIGHWAY STANDARDS & GENERAL NOTES
BNSF RR OVER I-55 STEEL GIRDER REPAIR

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 BNSF RR	COOK	20	2
			CONTRACT NO. 62U00	
		ILLINOIS	FED. AID PROJECT	

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	DRAWN - IG	REVISED -
PLOT SCALE = 2,0000' / in.	CHECKED - TPP	REVISED -
PLOT DATE = 2/8/2023	DATE -	REVISED -

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				100% MCHD
				BRIDGE
				0013
				016-0020
URBAN				
67100100	MOBILIZATION	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	9	9
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	38	38
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	333	333
70400100	TEMPORARY CONCRETE BARRIER	FOOT	250	250
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	54	54
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	333	333
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	10	10
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	38	38
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	30	30
Z0001905	STRUCTURAL STEEL REPAIR	POUND	2720	2720

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				100% MCHD
				BRIDGE
				0013
				016-0020
URBAN				
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
* Z0049100	RAISED PAVEMENT MARKER REFLECTOR REPLACEMENT	EACH	30	30
Z0073300	TEMPORARY SHORING AND CRIBBING	L SUM	1	1

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* SPECIALTY ITEM



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DRAWN - IG	REVISOR -	
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PLOT DATE = 2/10/2023	DATE -	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
BNSF RR OVER I-55 STEEL GIRDER REPAIR			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 BNSF RR	COOK	20	3
CONTRACT NO. 62U00				
ILLINOIS FED. AID PROJECT				

MAINTENANCE OF TRAFFIC NOTES:

1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A MINIMUM OF 2 11' THROUGH LANES IN THE SOUTHBOUND DIRECTION ON I-55 EXCEPT AS OTHERWISE INDICATED ON THE PLANS. LANE CLOSURES AT NIGHT WILL BE ALLOWED FOR CONSTRUCTION ACTIVITY ONLY AS APPROVED BY THE ENGINEER. SEE SPECIAL PROVISIONS FOR ALLOWABLE NIGHT CLOSURE TIMES.
2. THE CONTRACTOR SHALL PROVIDE ALL SIGNS, VERTICAL PANELS, TYPE III BARRICADES CHANNELIZATION DRUMS, TYPE II BARRICADES, ALL TEMPORARY CONCRETE BARRIERS AND PROTECTION NECESSARY FOR WORK ZONE TRAFFIC CONTROL AND PROTECTION, OR AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL USE TEMPORARY PAVEMENT MARKING ON SURFACES TO BE REMOVED AND IN AREAS THAT DO NOT CONFLICT WITH OTHER STAGES. DURING ALL WINTER STAGING MONTHS (NOVEMBER 1 - APRIL 1) PAVEMENT MARKINGS SHALL BE PAINT. THE PLACEMENT AND REMOVAL OF PAVEMENT MARKINGS FOR WINTER MONTHS SHALL BE PAID FOR AT THE CONTRACT UNIT COST FOR TEMPOARY PAVEMENT MARKING OF THE SIZE SPECIFIED ON THE PLANS AND PAVEMENT MARKING REMOVAL-WATER BLASTING.
4. ALL DRUMS, VERTICAL PANELS, AND TYPE II BARRICADES (IF REQUIRED) SHALL BE EQUIPPED WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS ON MULTILANE ROADWAYS, WHILE BI-DIRECTIONAL LIGHTS ARE REQUIRED ON ALL, TWO-WAY, TWO-LANE ROADWAYS.
5. ALL DRUMS, VERTICAL PANELS, AND TYPE II BARRICADES SHALL BE SPACED AT 50 FEET CENTER TO CENTER THROUGHOUT THE WORK ZONE, EXCEPT AS OTHERWISE INDICATED ON THE PLANS.
6. TEMPORARY CONCRETE BARRIERS SHALL BE EQUIPPED WITH TYPE "C" REFLECTORS, IN ACCORDANCE WITH HIGHWAY STANDARD 704011 SPACED AT 25' CENTERS.
7. ALL CONSTRUCTION WARNING SIGNS SHALL BE BLACK LEGEND ON ORANGE BACKGROUND.
8. ALL CONSTRUCTION WARNING SIGN DIMENSIONS SHALL BE 48" X 48", EXCEPT AS OTHERWISE
9. ALL "ROAD CONSTRUCTION AHEAD" WARNING SIGNS SHALL BE EQUIPPED WITH HIGH INTENSITY MONO-DIRECTIONAL FLASHING LIGHTS.
10. THE CONTRACTOR SHALL INSTALL AND COVER ALL TEMPORARY SIGNING BEFORE EXISTING SIGNS ARE REMOVED. THE CONTRACTOR SHALL RELOCATE EXISTING SIGNS AS INDICATED ON THE PLANS.
11. THE CONTRACTOR SHALL INSTALL AND COVER ALL PERMANENT SIGNING BEFORE TEMPORARY SIGNS ARE REMOVED.THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST FOR SIGN PANEL, OF THE TYPE SPECIFIED.
12. THE CONTRACTOR SHALL COORDINATE WITH THE BUREAU OF TRAFFIC, EXPRESSWAY SECTION 7 DAYS IN ADVANCE OF PROPOSED WEEKEND WORK.
13. EXISTING, TEMPORARY AND PROPOSED TRAFFIC/GUIDE SIGNS IN CONFLICT WITH STAGING SHALL BE COVERED AS INDICATED ON THE MAINTENANCE OF TRAFFIC PLANS AND/OR AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT COST FOR TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
14. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED ONE (1) WEEK PRIOR TO START OF WORK, AT LOCATIONS DETERMINED BY THE ENGINEER, FOR ADVANCED WARNING.
15. DIRECTION INDICATOR BARRICADES SHALL BE USED AT LANE CLOSURE TAPER LOCATIONS FOR ROADWAYS WITH SPEEDS GREATER THAN OR EQUAL TO 45 MPH OR AS OTHERWISE DIRECTED BY THE ENGINEER.
16. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE TO THE MAINTENANCE OF TRAFFIC PLAN. ALL CHANGES TO THE MAINTENANCE OF TRAFFIC PLANS SHALL BE APPROVED BY TRAFFIC.

I-55 CONSTRUCTION STAGING

I-55 STAGING

RAILROAD - BNSF WEST BRIDGE OVER I-55 WILL BE REPAIRED BY TEMPORARY LANE CLOSURES DURING ALLOWABLE TIMES. SEE SPECIAL PROVISIONS, FOR ALLOWABLE LANE CLOSURE TIMES AND ADDITIONAL NOTES.

MAINTENANCE OF TRAFFIC - STAGE 1

1. BRIDGE REPAIR WILL REQUIRE PARTIAL REMOVAL OF THE EXISTING STEEL FLANGES THAT WERE DAMAGES BY IMPACT AND SELECT PORTIONS OF THE LOWER WEB WILL BE REMOVED AND REPLACED. STEEL SPLICE PLATES WILL BE SIZED TO STRAIGHTEN AND SPLICE THE NEW STEEL FLANGE AND WEB PLATES TO WITHIN AISC AND AREMA TOLERANCES. THE PROPOSED WORK IS APPROXIMATELY IN THE MIDDLE SOUTHBOUND LANE.
2. CLOSE THE INSIDE LANE OF TRAFFIC ON I-55 IN SOUTHBOUND DIRECTION ALLOWING 2 LANES TO REMAIN OPEN DURING ALLOWABLE TIMES. SEE SPECIAL PROVISIONS.
3. UTILIZE THE MAINTENANCE OF TRAFFIC PLANS, INSTALL TEMPORARY PAVEMENT MARKING, TEMPORARY CONCRETE BARRIER, SHIFT AND NARROW THE 2 REMAINING SOUTHBOUND LANES ON I-55 TOWARD THE OUTSIDE SHOULDER TO PROVIDE WORKING ROOM WITHIN THE BRIDGE DAMAGED AREA LOCATED ROUGHLY IN THE MIDDLE EXISTING SOUTHBOUND I-55 (LANE 2) AS SHOWN ON THE PLANS.

WORK ZONE SPEED LIMIT

	EXISTING POSTED SPEED	PROPOSED POSTED SPEED
STAGE 1	55 MPH	45 MPH

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ABNA
DESIGN FIRM REG. 194202117

745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph: 773-931-4788
Fax: 773-239-3728

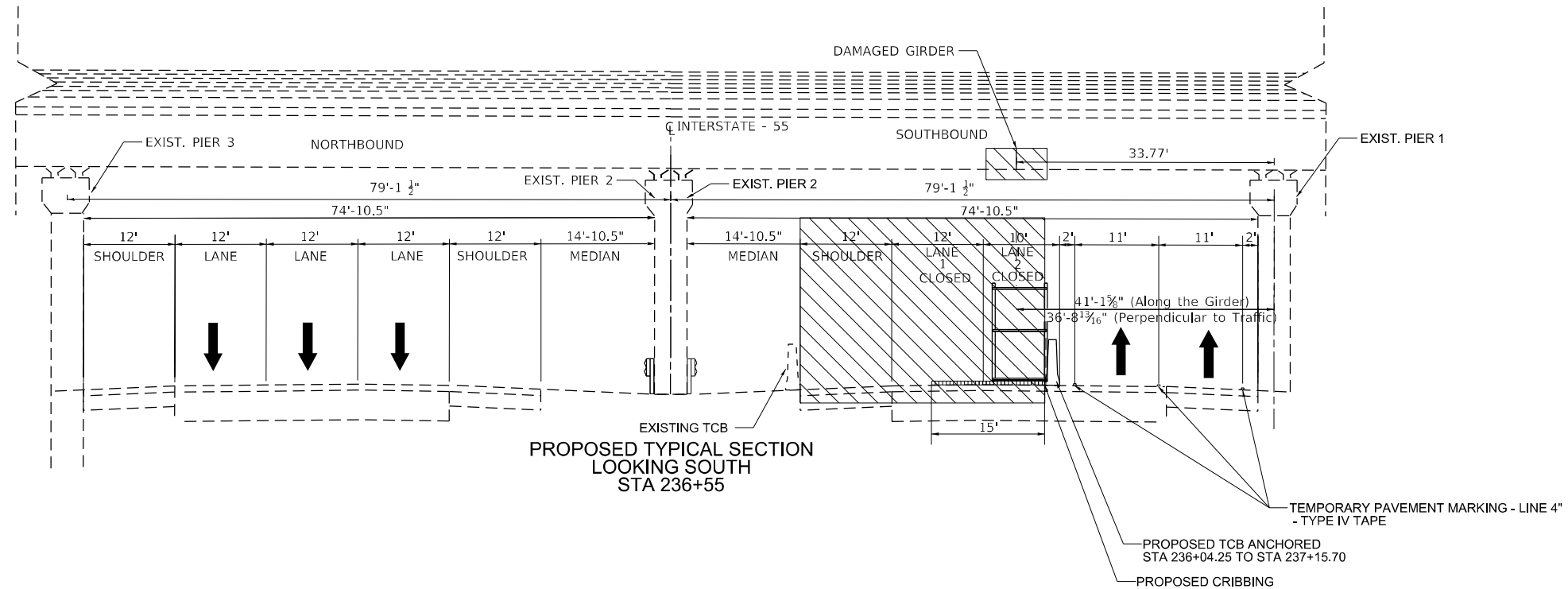
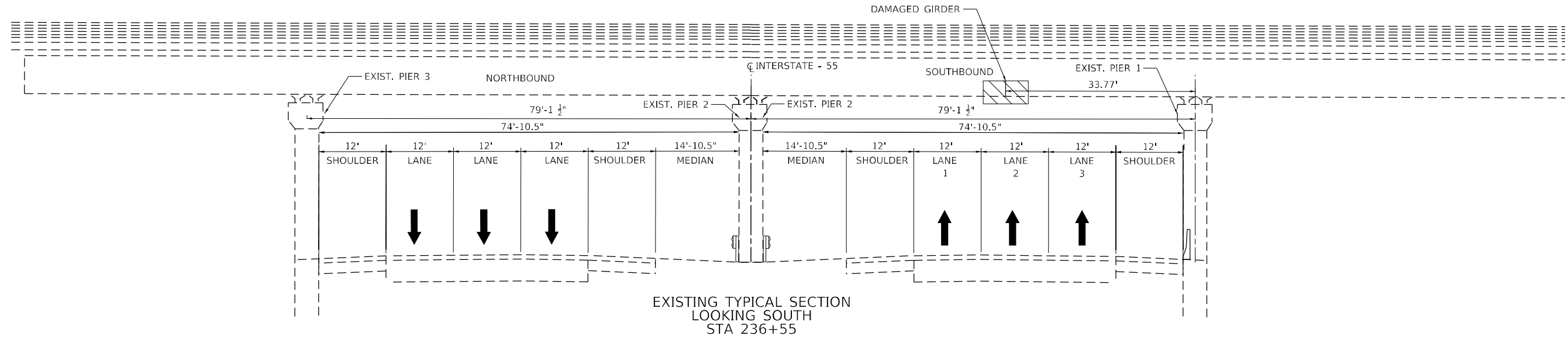
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC GENERAL NOTES
BNSF RR OVER I-55 STEEL GIRDER REPAIR**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 BNSF RR	COOK	20	4
			CONTRACT NO. 62U00	
		ILLINOIS	FED. AID PROJECT	



TYPICAL LEGENDS

- WORK AREA
- DIRECTION OF TRAVEL

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ABNA
DESIGN FIRM REG. 194.002117

745 McClellan Drive
Suite 210
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Ph: 708-431-4788
Fax: 708-239-3728

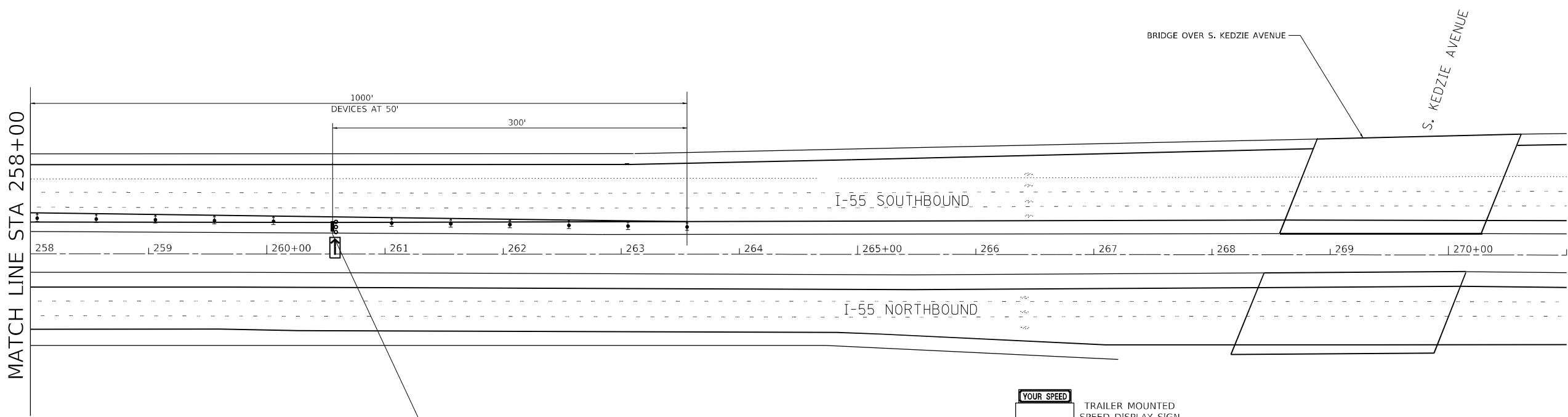
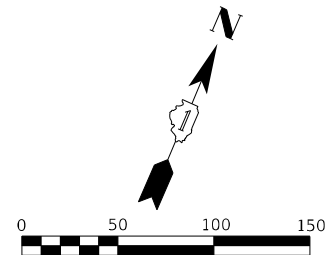
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS STAGE 1
BNSF RR OVER I-55 STEEL GIRDER REPAIR**

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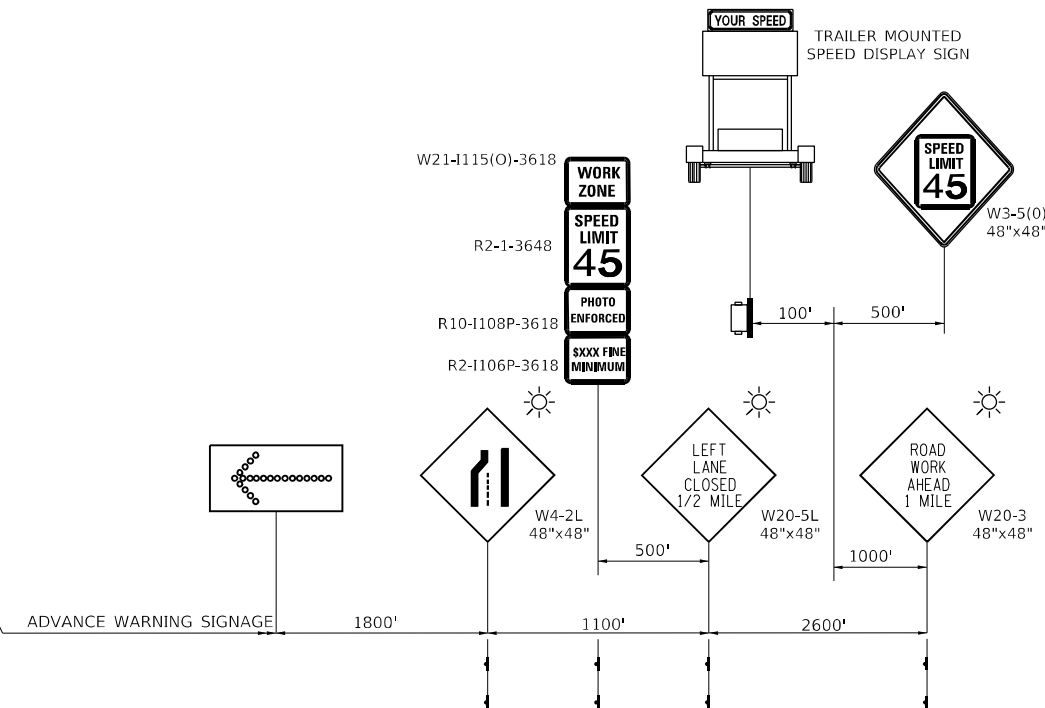
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 BNSF RR	COOK	20	5
CONTRACT NO. 62U00				
ILLINOIS FED. AID PROJECT				



MOT SYMBOL LEGEND

- ARROW BOARD
- WORK AREA
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT SPACED AT 50'
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR/IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- TRAILER MOUNTED SPEED DISPLAY SIGN

STA 260+55 TO



NOTE:
2 TEMPORARY INFORMATION SIGNS WILL BE USED AND PLACED ALONG CALIFORNIA AVENUE.

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ABNA
DESIGN FIRM REG. 194002117
745 McClintock Drive
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Burr Ridge, IL 60527
Ph: 773-231-4788
Fax: 773-239-3728

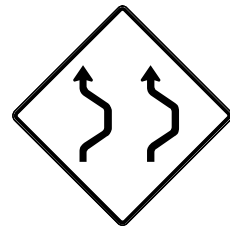
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PLOT DATE = 2/2/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC – LANE DROP & SHIFT PLANS I-55 STAGE 1
BNSF RR OVER I-55 STEEL GIRDER REPAIR**

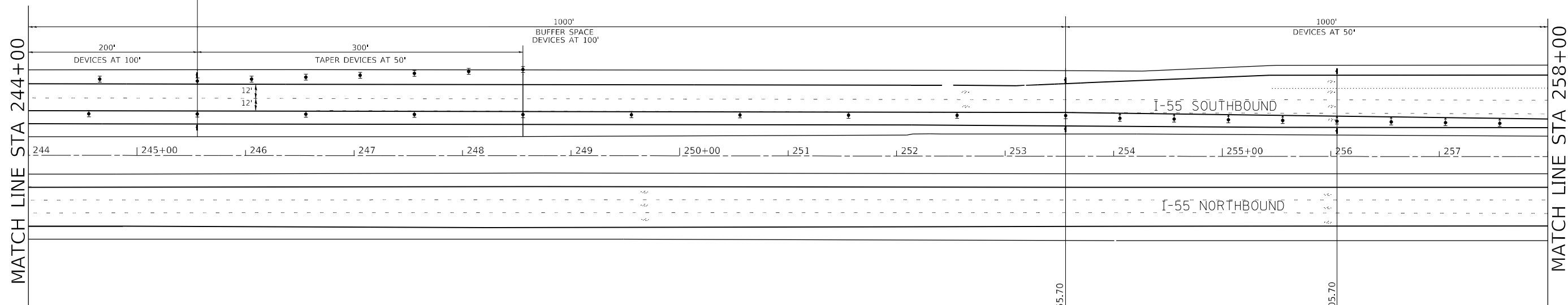
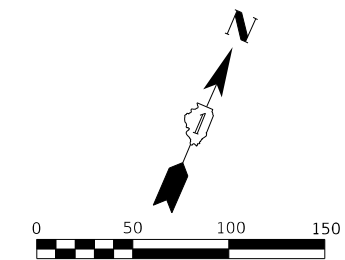
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 BNSF RR	COOK	20	6
CONTRACT NO. 62U00				
ILLINOIS FED. AID PROJECT				



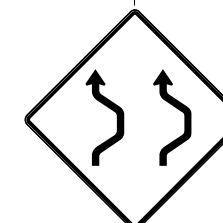
W24-1bR

STA 245+56.00



MOT SYMBOL LEGEND

- ARROW BOARD
- WORK AREA
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT SPACED AT 50'
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3



W24-1bR

STA 253+55.70

W21-1115(O)-3618
R2-1-3648
R10-1108P-3618
R2-1106P-3618

WORK ZONE

SPEED LIMIT 45

PHOTO ENFORCED

SXXX FINE MINIMUM

STA 256+05.70

MODEL: R10r 4
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ABNA
DESIGN FIRM REG. 194.002117

745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph: 773-239-4788
Fax: 773-239-3728

USER NAME = lghimire	DESIGNED - HH	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - IG	REVISED -
PLOT DATE = 2/2/2023	CHECKED - TPP	REVISED -
	DATE -	REVISED -

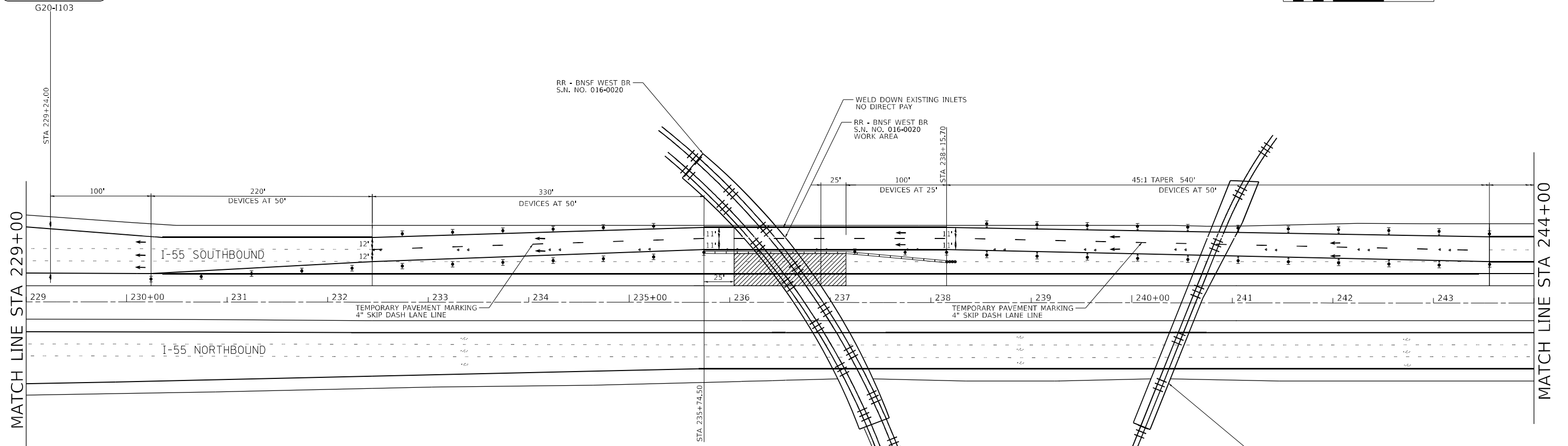
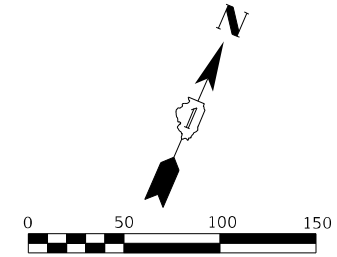
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC – LANE DROP & SHIFT PLANS I-55 STAGE 1
BNSF RR OVER I-55 STEEL GIRDER REPAIR**






SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 BNSF RR	COOK	20	7
CONTRACT NO. 62U00				
ILLINOIS FED. AID PROJECT				

**END
WORK ZONE
SPEED LIMIT**



MOT SYMBOL LEGEND

-  WORK AREA
-  TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT SPACED AT 50'
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

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ABNA
DESIGN FIRM REG. 1942002117

745 McCloskey Drive
Suite 210
Burr Ridge, IL 60527
Ph: 773-239-4788
Fax: 773-239-0728

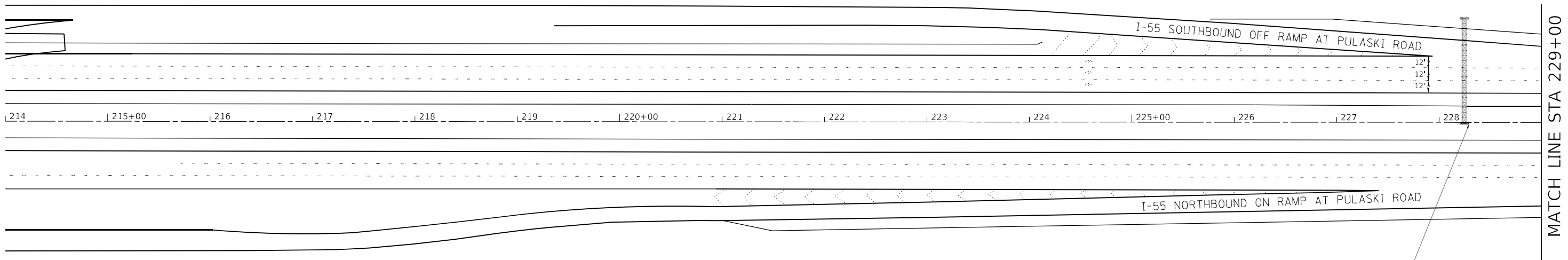
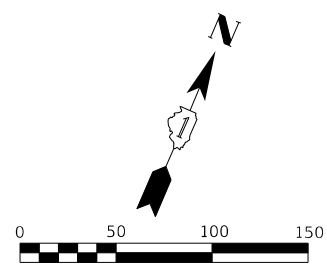
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**






**MAINTENANCE OF TRAFFIC - LANE DROP & SHIFT PLANS I-55 STAGE 1
BNSF RR OVER I-55 STEEL GIRDER REPAIR**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 BNSF RR	COOK	20	8
CONTRACT NO. 62U00				
ILLINOIS FED. AID PROJECT				



MOT SYMBOL LEGEND

-  WORK AREA
-  TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT SPACED AT 50'
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

MAINTAIN

SHOULDER

Pace **BUSES**

Allowed

↓

MAINTAIN

EXIT **286**

ILLINOIS
50

Cicero Ave

1 MILE

MAINTAIN

EXIT **287**

Pulaski Rd ↗

4000 W

MODEL: R18-3
FILE NAME: I:\2022\26041\W05_SICAD_Sheets\Plan\62U00_XXXX_gh-establog_2_rev1.rvt.dgn



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745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph: 773-951-4788
Fax: 773-238-3728

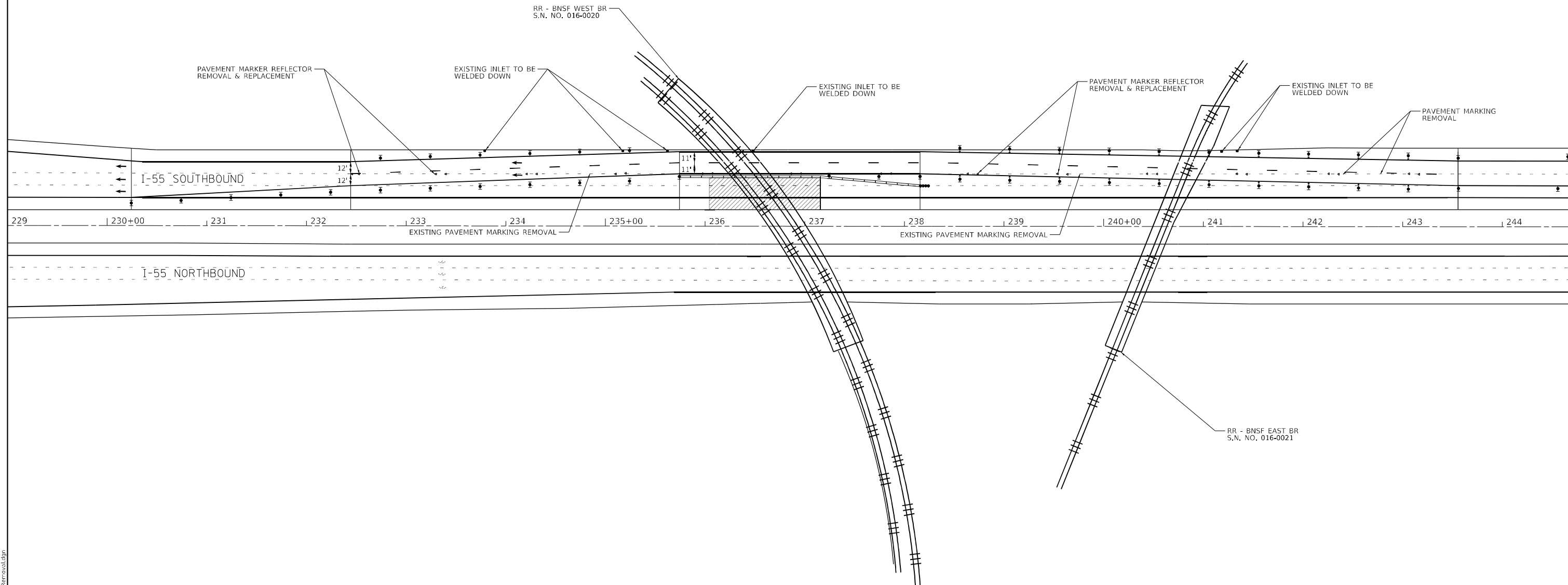
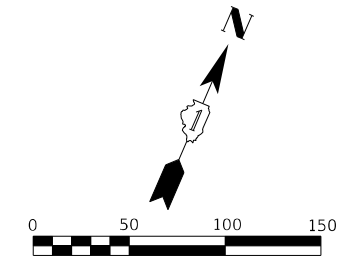
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PLOT DATE = 2/2/2023	CHECKED - TPP	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC – LANE DROP & SHIFT PLANS I-55 STAGE 1
BNSF RR OVER I-55 STEEL GIRDER REPAIR**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 BNSF RR	COOK	20	9
CONTRACT NO. 62U00				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



MODEL: R16r 2
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ABNA
 DESIGN FIRM REG. 194,200117
 745 McClintock Drive
 Suite 210
 Burr Ridge, IL 60527
 Ph: 773-951-4788
 Fax: 773-238-3728

USER NAME = hhadjri	DESIGNED - HH	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - IG	REVISED -
PLOT DATE = 2/1/2023	CHECKED - TPP	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

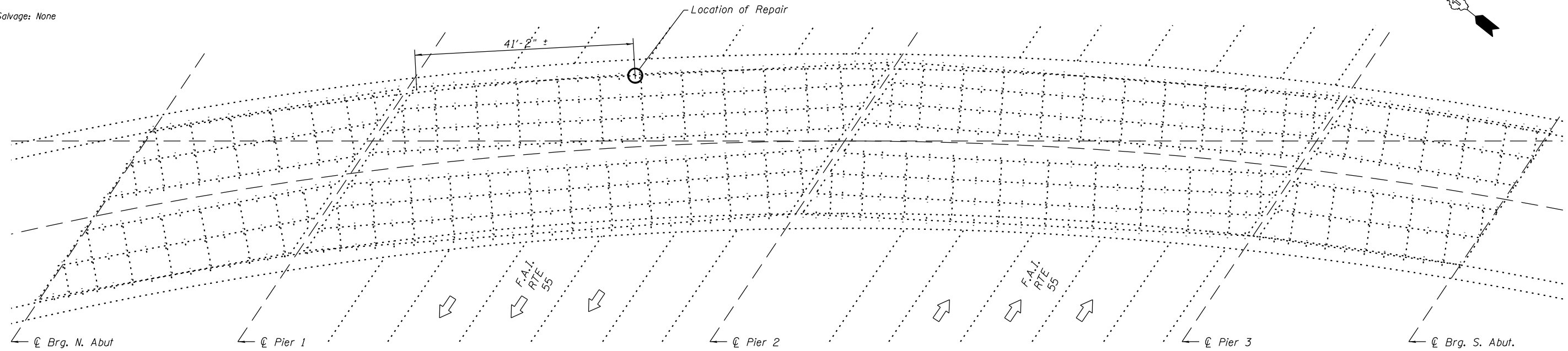
MAINTENANCE OF TRAFFIC – REMOVAL PLAN
BNSF RR OVER I-55 STEEL GIRDER REPAIR

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 BNSF RR	COOK	20	10
CONTRACT NO. 62U00				
ILLINOIS FED. AID PROJECT				

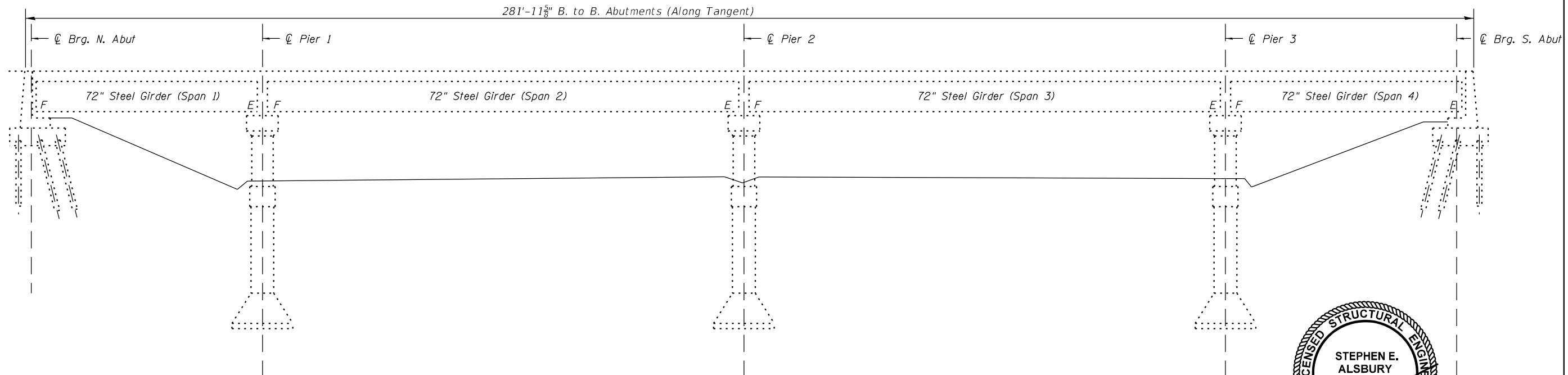
SCALE: SHEET OF SHEETS STA. TO STA.

Existing Structure: S.N. 016-0020 built 1963 as A.T. & S.F. RAILWAY (BNSF) OVER FAI 55,
 Section 1313-622 SB at Station 92+85.
 Structure consists of four single span steel built up girders and reinforced concrete deck supported
 by reinforced concrete abutments and stem wall piers.
 281'-11 1/2" back-to-back abutments (along the tangent). 25'-2 1/2" out-to-out deck.
 Structure to be repaired at isolated impact location.

Salvage: None



PLAN



ELEVATION

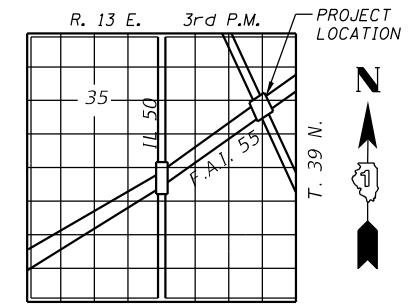
DESIGN STRESSES (ORIGINAL CONSTRUCTION)

Concrete (Cast in Place)
 $f'_c = 3500$ psi
 $f_c = 1400$ psi
 $f_c =$ (With Earth Pressure) 1000 psi
 $f_v = 75$ psi
 $n = 10$

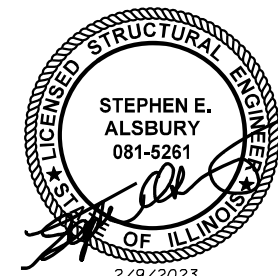
Reinforcing Steel
 $f_s = 20,000$ psi
 Structural Steel
 $f_s = 20,000$ psi

DESIGN STRESSES (NEW CONSTRUCTION)

Structural Steel
 $f_y = 50,000$ p.s.i.



LOCATION SKETCH



2/9/2023
 EXPIRES 11/30/2024

GENERAL PLAN AND ELEVATION
BNSF RR OVER I-55
FAI 55 22 BNSF RR
COOK COUNTY
STATION 92+84.587
STRUCTURE NO. 016-0020



USER NAME	DESIGNED - P. Dombrowski	REVISED -
	CHECKED - S. Alsbury	REVISED -
PLOT SCALE N.T.S.	DRAWN - P. Dombrowski	REVISED -
PLOT DATE \$DATE\$	CHECKED - 10.21.2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
 STRUCTURE NO. 016-0020

SHEET 1 OF 8 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 BNSF RR	COOK	20	11
CONTRACT NO. 62U00				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 7/8 in. ϕ , holes 1 in. ϕ , unless otherwise noted.
- No Field welding is permitted except as specified in the contract documents.
- 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.
- All steel components (repair plates, angels, and diaphragms) shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. All new structural steel shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing For Structural Steel."
- The existing structural steel coating contain lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contract Surface Areas of Existing Steel Structures."
- Load carrying components designated "NTR" shall conform to the requirements for Notch Toughness, Zone 2.
- This structural will retain the same number 016-0020.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structural Steel Repair	Pound	2,720	-	2,720
Temporary Shoring and Cribbing	Lump Sum	1	-	1

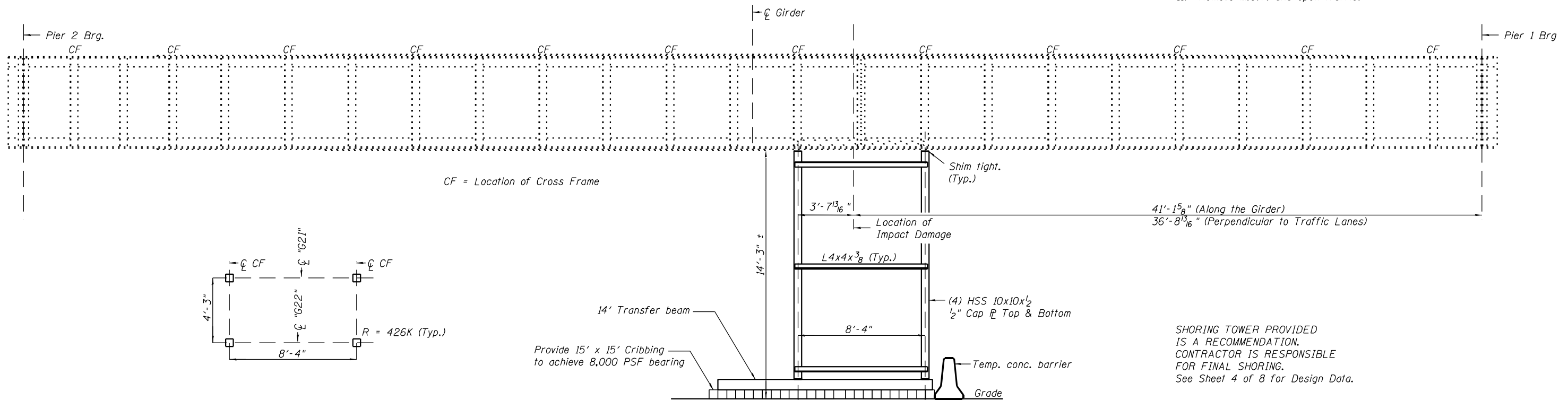
INDEX OF SHEETS

- 1 General Plan & Elevation
- 2 Index of Sheets, General Notes & Bill of Material
- 3 Girder Repair Details
- 4-6 1963 Reference Plans
- 7-8 October 24, 2020 Reference Photos

SCOPE OF WORK

VISIT SITE AND FIELD VERIFY DIMENSIONS PROVIDED.
** PRIOR TO FABRICATION **

- Set up M.O.T.
- Erect shoring under adjacent cross frames.
- Remove select rivets.
- Cut out damaged steel section.
- Partial removal of bottom flange angle.
- Drill new holes as required.
Note: Existing holes are $\frac{1}{16}$ " dia. for $\frac{7}{8}$ " dia. rivets. Contractor may ream $\frac{1}{16}$ " dia. holes to 1" dia. for $\frac{7}{8}$ " dia. H.S. bolts.
- Install $\frac{1}{2}$ " web fill plate, angle stiffener fill plates, and angle stiffener.
- Install flange fill plates and flange splice plates.
- Remove Shoring.
- Measure and record vertical clearances.
Provide to Resident Engineer and/or IDOT.
- Remove M.O.T. and open traffic.



SHORING TOWER PROVIDED IS A RECOMMENDATION. CONTRACTOR IS RESPONSIBLE FOR FINAL SHORING. See Sheet 4 of 8 for Design Data.

TEMPORARY SHORING PLAN

TEMPORARY SHORING ELEVATION
(Looking Southwest)

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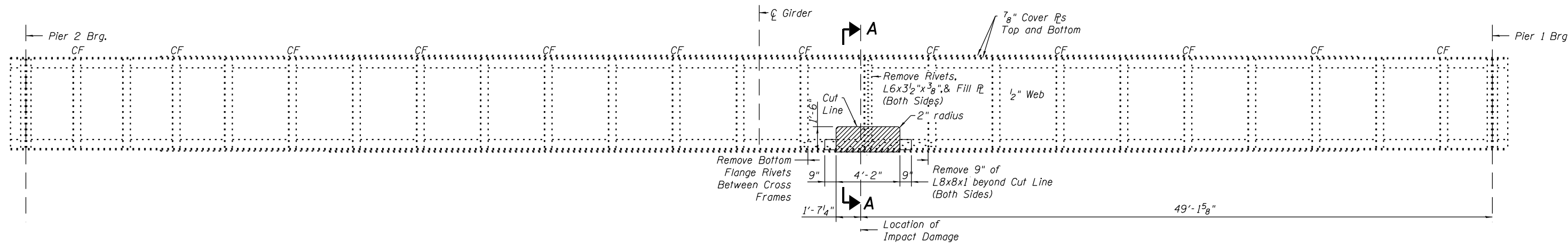
ABNA
DESIGN FIRM REG. 184.002117
745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph. 773-881-4788
Fax: 773-239-3720

USER NAME	DESIGNED - P. Dombrowski	REVISED -
	CHECKED - S. Alsbury	REVISED -
PLOT SCALE N.T.S.	DRAWN - P. Dombrowski	REVISED -
PLOT DATE 2/9/2023	CHECKED - 10.21.2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 016-0020
SHEET 2 OF 8 SHEETS

FAI. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 BNSF RR	COOK	20	12
CONTRACT NO. 62U00				
ILLINOIS FED. AID PROJECT				



GIRDER "G21" REMOVAL ELEVATION

(Looking Southwest)

Existing Rivets are 7/8" Dia.
CF = Location of Cross Frame

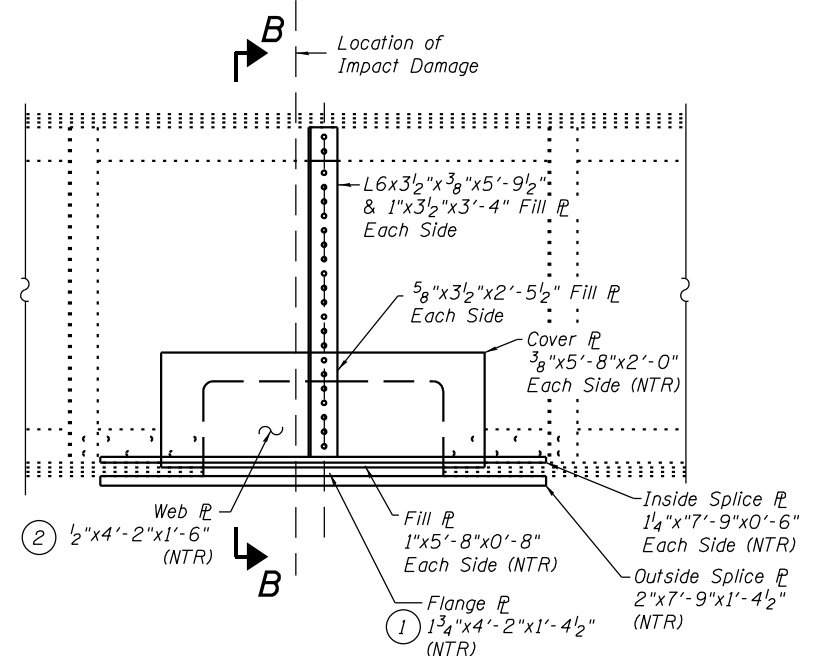
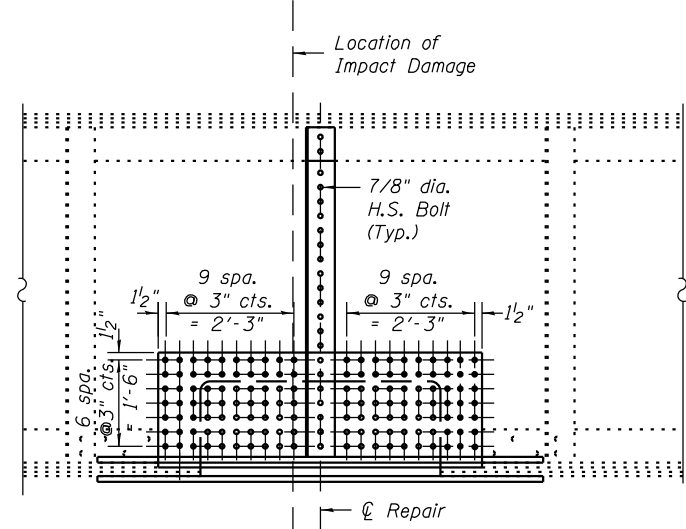


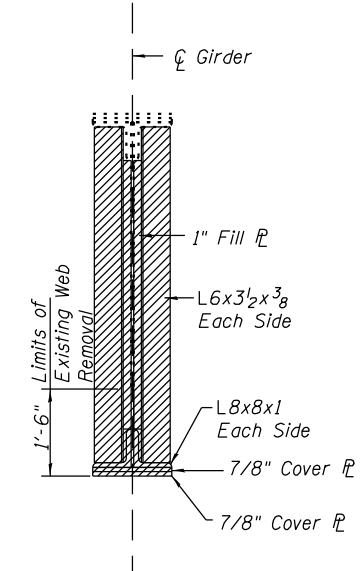
PLATE REPAIR ELEVATION

(Looking Southwest)

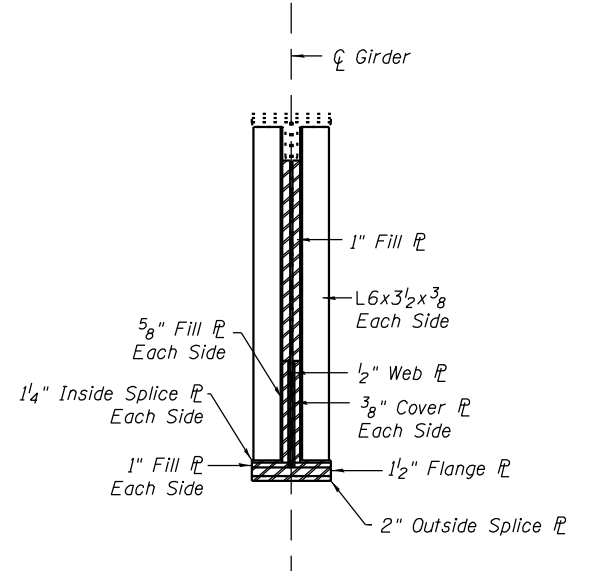


BOLTED REPAIR ELEVATION

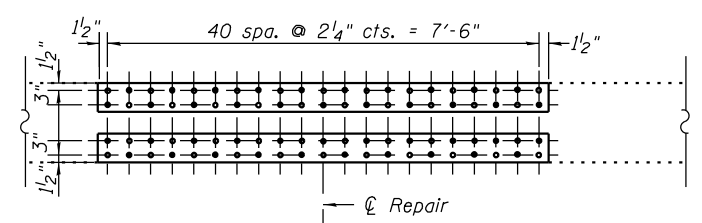
(Looking Southwest)



SECTION A-A

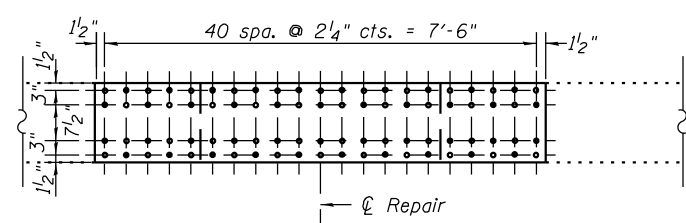


SECTION B-B



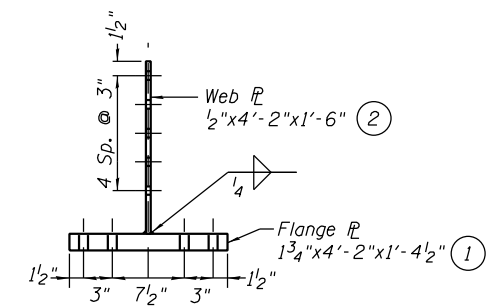
BOTTOM REPAIR PLAN

Inside Splice PLs



BOTTOM REPAIR PLAN

Outside Splice PL



WEB PLATE SECTION

Steel Removal

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	2,720

- Use Existing Web and Flange holes. Or Drilled Hole.
- New Hole. Drill existing steel as required.

FILE NAME: I:\2022\160411\WO_5\CAD_Sheets\0160020-62U-003-GIRDERREPAIRDETAILS.dgn



745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph. 773-881-4788
Fax: 773-239-3720

USER NAME	DESIGNED	REVISIONS
	- P. Dombrowski	REVISI
	- S. Alsbury	REVISI
	- P. Dombrowski	REVISI
	- 10.21.2022	REVISI

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GIRDER REPAIR DETAILS
STRUCTURE NO. 016-0020

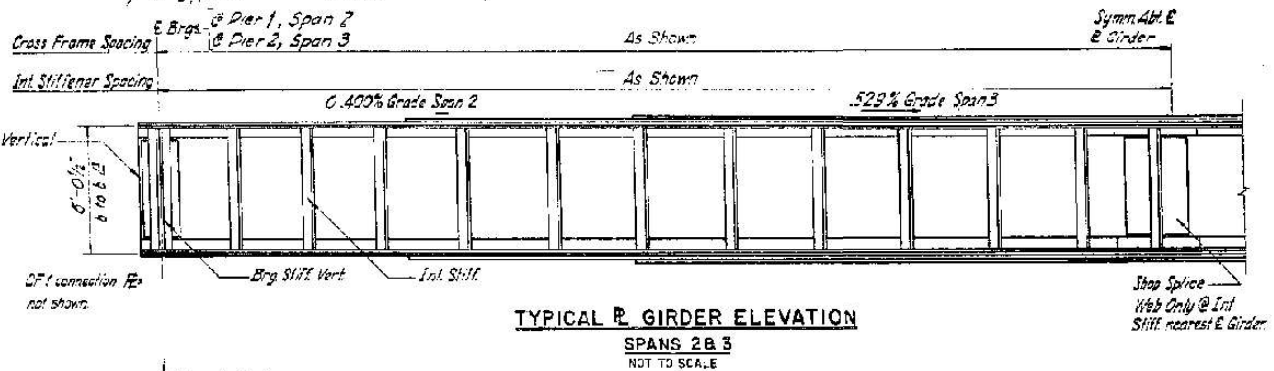
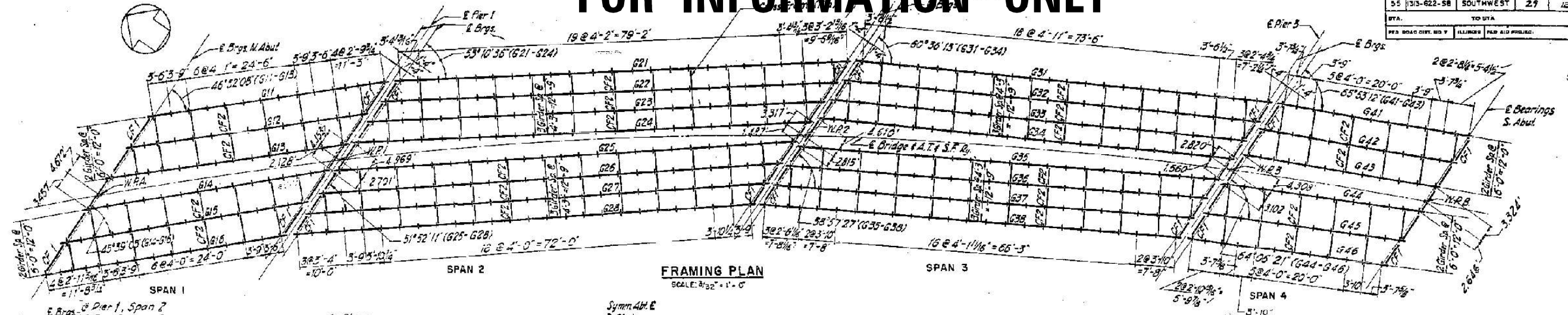
SHEET 3 OF 8 SHEETS

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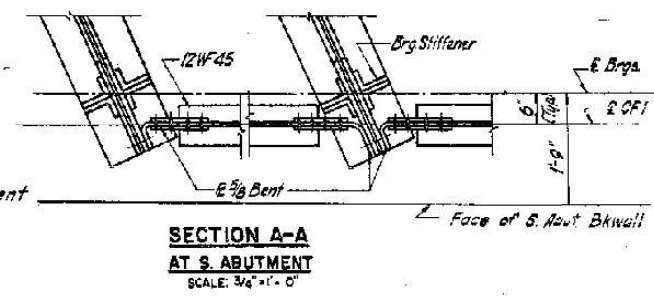
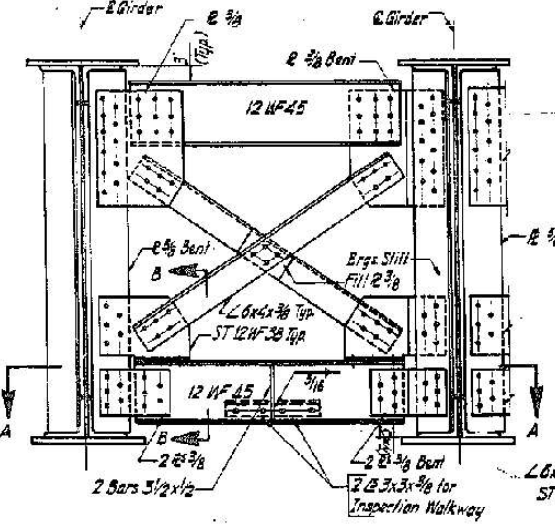
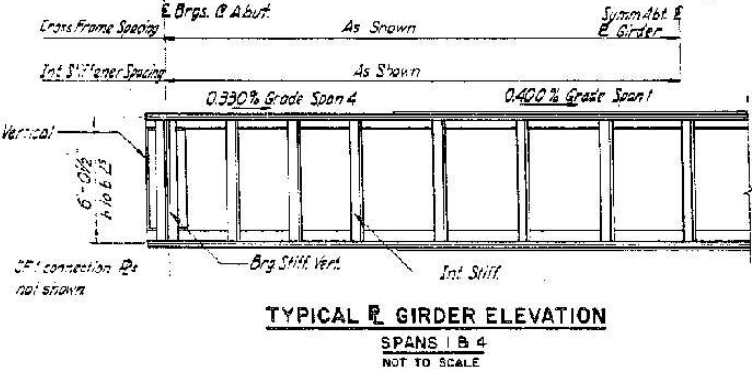
CONTRACT NO. 62U00

FOR INFORMATION ONLY

SECTION	EXPRESSWAY	TOTAL SHEETS	SHEET NO.
55	SOUTHWEST	29	12
TO UTA			
ILLINOIS FED. AID PROJECT			



MARK	LENGTH C.T.O.C. BEARINGS	WEB SIZE	FLANGE IS 3 HOLES OUT SIZE	COVER PLATES 2 HOLES OUT				STIFFENER		RIVET PITCH					
				SIZE	LENGTH	SIZE	LENGTH	BEARING	INTERIOR	FLANGE IS TO WEB (MAX.) (RIVETS STAGGERED)	FLANGE IS TO COVER PL.	MIN	MAX		
G11 - G13	50'-2 3/8"	72 x 3/8	6 x 6 x 3/8	10 x 3/8	34'-0"	15 x 3/8	34'-0"	2 1/2"	2 1/2"	2 1/2"	3 1/2"	4 1/2"	4 1/2"	3"	4 1/2"
G14 - G16	50'-3 3/8"	72 x 3/8	6 x 6 x 3/8	10 x 3/8	34'-0"	15 x 3/8	34'-0"	2 1/2"	2 1/2"	2 1/2"	3 1/2"	4 1/2"	4 1/2"	3"	4 1/2"
G21 - G24	85'-6 3/8"	72 x 1/2	8 x 8 x 1	22 x 3/8	78'-0"	22 x 3/8	78'-0"	2 1/2"	2 1/2"	2 1/2"	3 1/2"	4 1/2"	4 1/2"	3"	4 1/2"
G25 - G28	97'-2 1/8"	72 x 1/2	8 x 8 x 1	22 x 3/8	78'-0"	22 x 3/8	78'-0"	2 1/2"	2 1/2"	2 1/2"	3 1/2"	4 1/2"	4 1/2"	3"	4 1/2"
G31 - G34	87'-9 3/8"	72 x 1/2	8 x 8 x 3/4	22 x 3/8	72'-0"	22 x 3/8	72'-0"	2 1/2"	2 1/2"	2 1/2"	3 1/2"	4 1/2"	4 1/2"	3"	4 1/2"
G35 - G38	89'-2 7/8"	72 x 1/2	8 x 8 x 3/4	22 x 3/8	72'-0"	22 x 3/8	72'-0"	2 1/2"	2 1/2"	2 1/2"	3 1/2"	4 1/2"	4 1/2"	3"	4 1/2"
G41 - G43	40'-2 1/8"	72 x 3/8	6 x 6 x 1/2	14 x 3/8	21'-0"	14 x 3/8	21'-0"	2 1/2"	2 1/2"	2 1/2"	3 1/2"	4 1/2"	4 1/2"	3"	4 1/2"
G44 - G46	40'-9 1/8"	72 x 3/8	6 x 6 x 1/2	14 x 3/8	21'-0"	14 x 3/8	21'-0"	2 1/2"	2 1/2"	2 1/2"	3 1/2"	4 1/2"	4 1/2"	3"	4 1/2"



ITEM	DESIGN DATA							
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	KIPS	KIPS	KIPS	KIPS	KIPS	KIPS	KIPS	KIPS
D.L.	845	65	3,000	122	2,503	112	525	51
L.L.	1,410	124	3,500	158	2,855	147	950	107
I	1,050	92	2,025	95	1,814	94	750	82
C.F.	228	20	593	28	505	26	154	18
Total	3,533	301	8,948	404	7,657	379	2,359	258

CAMBER DATA	
GIRDERS	E/CAMBER
G11 - G16	0
G21 - G28	3/8"
G31 - G38	3/8"
G41 - G46	0

- NOTES:**
- For C/F-2 Details see sheet 13
 - All dimensions shown are horizontal
 - Impact moment and shear values include rolling impact
 - Int. stiffener locations are dimensioned to stiffener gage lines

REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS
SOUTHWEST EXPRESSWAY
AT & S.F. RY. OVER EXPRESSWAY

FRAMING PLAN

SCALE: HORIZ. AS SHOWN
VERT. DATE: MARCH, 1963

DRAWN BY: *C. George*
CHECKED BY: *A. Harris*

FILE NAME: I:\2022\6041\W0_5\CAD_Sheets\0160020-02\004-REF-1.dgn

ABNA
DESIGN FIRM REG. 184.002117

745 McClintock Drive
Suite 210
Burr Ridge, IL 60527
Ph: 773-881-4788
Fax: 773-239-3720

USER NAME	DESIGNED - P. Dombrowski	REVISED -
PLOT SCALE	CHECKED - S. Alsbury	REVISED -
PLOT DATE	DRAWN - P. Dombrowski	REVISED -
	CHECKED - 10.21.2022	REVISED -

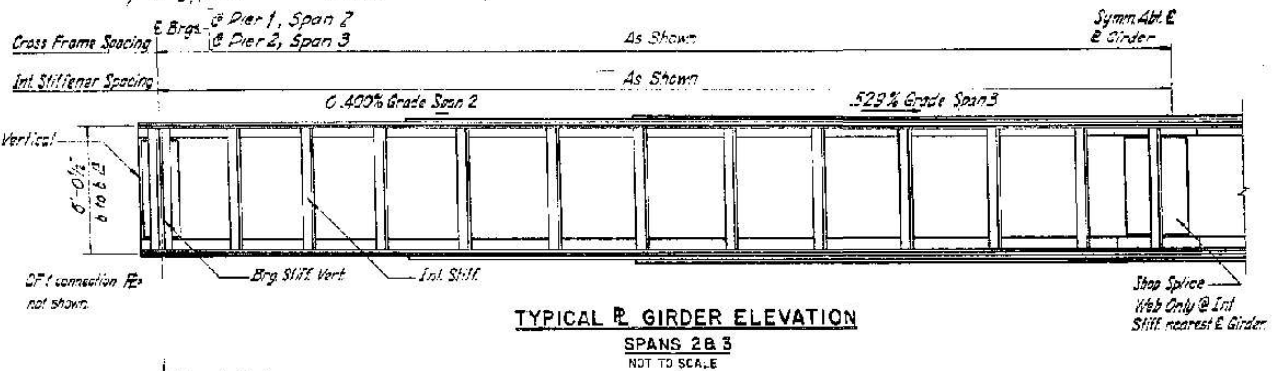
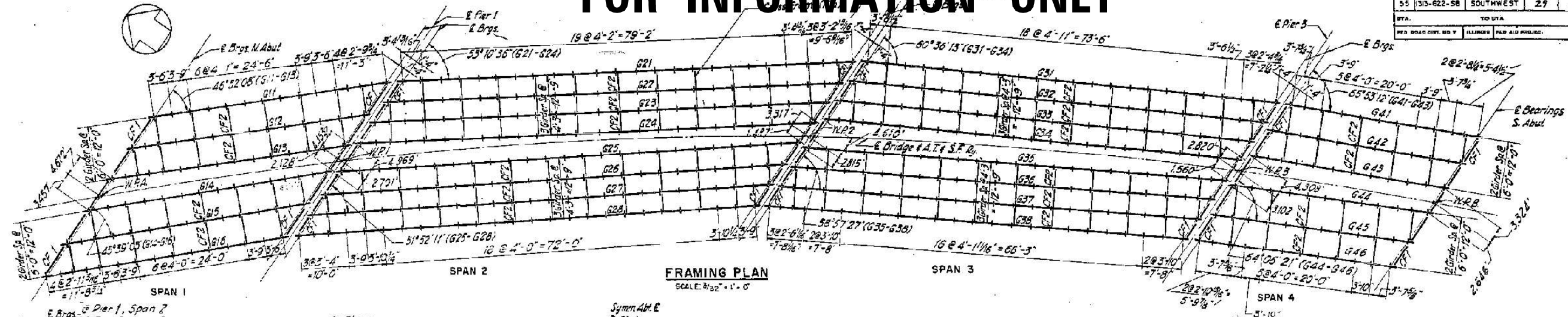
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1963 REFERENCE PLANS
STRUCTURE NO. 016-0020

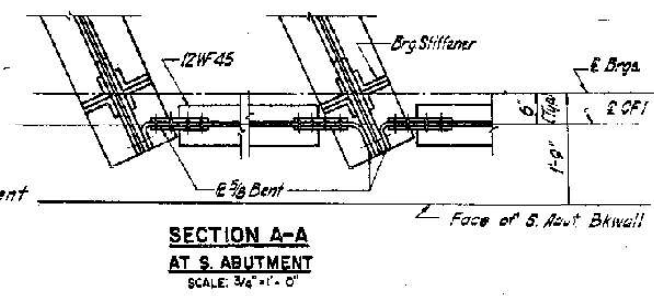
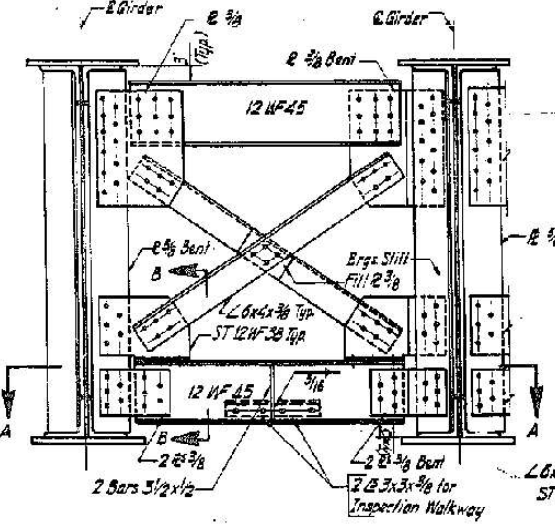
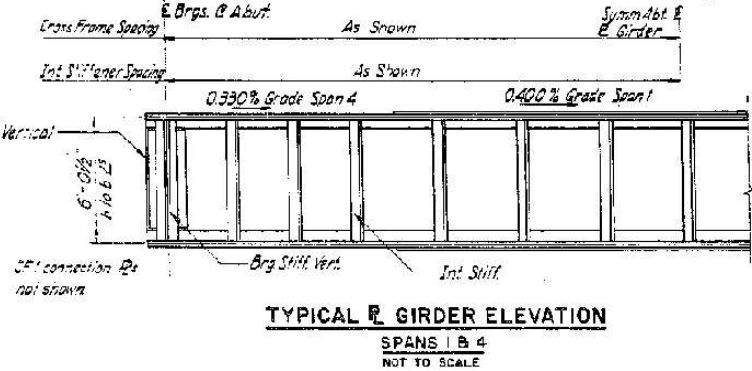
FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 BNSF RR	COOK	20	14
CONTRACT NO. 62U00				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

SECTION	EXPRESSWAY	TOTAL SHEETS	SHEET NO.
55	SOUTHWEST	29	12
TO UTA			
ILLINOIS FED. AID PROJECT			



MARK	LENGTH C.T.O.C. BEARINGS	WEB SIZE	FLANGE IS 3 HOLES OUT SIZE	COVER PLATES 2 HOLES OUT				STIFFENER		RIVET PITCH					
				SIZE	LENGTH	SIZE	LENGTH	BEARING	INTERIOR	FLANGE IS TO WEB (MAX.) (RIVETS STAGGERED)	FLANGE IS TO COVER PL.	MIN	MAX		
G11 - G13	50'-2 1/2"	72 x 3/8	6 x 6 x 3/8	10 x 3/8	34'-0"	15 x 3/8	34'-0"	2 1/2"	2 1/2"	2 1/2"	3 1/2"	4 1/2"	4 1/2"	3"	4 1/2"
G14 - G16	50'-3 3/8"	72 x 3/8	6 x 6 x 3/8	10 x 3/8	34'-0"	15 x 3/8	34'-0"	2 1/2"	2 1/2"	2 1/2"	3 1/2"	4 1/2"	4 1/2"	3"	4 1/2"
G21 - G24	85'-6 3/8"	72 x 1/2	8 x 8 x 1	22 x 3/4	78'-0"	22 x 3/4	78'-0"	2 1/2"	2 1/2"	2 1/2"	3 1/2"	4 1/2"	4 1/2"	3"	4 1/2"
G25 - G28	97'-2 1/2"	72 x 1/2	8 x 8 x 1	22 x 3/4	78'-0"	22 x 3/4	78'-0"	2 1/2"	2 1/2"	2 1/2"	3 1/2"	4 1/2"	4 1/2"	3"	4 1/2"
G31 - G34	87'-9 1/2"	72 x 1/2	8 x 8 x 3/4	22 x 3/4	72'-0"	22 x 3/4	72'-0"	2 1/2"	2 1/2"	2 1/2"	3 1/2"	4 1/2"	4 1/2"	3"	4 1/2"
G35 - G38	89'-2 7/8"	72 x 1/2	8 x 8 x 3/4	22 x 3/4	72'-0"	22 x 3/4	72'-0"	2 1/2"	2 1/2"	2 1/2"	3 1/2"	4 1/2"	4 1/2"	3"	4 1/2"
G41 - G43	40'-2 1/8"	72 x 3/8	6 x 6 x 1/2	14 x 3/8	21'-0"	14 x 3/8	21'-0"	2 1/2"	2 1/2"	2 1/2"	3 1/2"	4 1/2"	4 1/2"	3"	5 1/2"
G44 - G46	40'-9 1/8"	72 x 3/8	6 x 6 x 1/2	14 x 3/8	21'-0"	14 x 3/8	21'-0"	2 1/2"	2 1/2"	2 1/2"	3 1/2"	4 1/2"	4 1/2"	3"	5 1/2"



ITEM	DESIGN DATA							
	SPAN 1		SPAN 2		SPAN 3		SPAN 4	
	MOMENT	SHEAR	MOMENT	SHEAR	MOMENT	SHEAR	MOMENT	SHEAR
	KIPS	KIPS	KIPS	KIPS	KIPS	KIPS	KIPS	KIPS
D.L.	845	65	3,000	122	2,503	112	525	51
L.L.	1,410	124	3,500	158	2,855	147	950	107
I	1,050	92	2,025	95	1,814	94	750	82
C.F.	228	20	593	28	505	26	154	18
Total	3,533	301	8,948	404	7,857	379	2,359	258

CAMBER DATA	
GIRDERS	E/CAMBER
G11 - G16	0
G21 - G28	3/4"
G31 - G38	3/8"
G41 - G46	0

- NOTES:**
- For C/F-2 Details see sheet 13
 - All dimensions shown are horizontal
 - Impact moment and shear values include rolling impact
 - Int. stiffener locations are dimensioned to stiffener gage lines

REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS
SOUTHWEST EXPRESSWAY
AT & S.F. RY. OVER EXPRESSWAY

FRAMING PLAN

SCALE: HORIZ. AS SHOWN
VERT. DATE: MARCH, 1963

DRAWN BY: *C. George*
CHECKED BY: *A. Harris*

FILE NAME: I:\2022\60411\WO_5\CAD_Sheets\0160020-02\U-005-REF-2.dgn

ABNA
DESIGN FIRM REG. 184.002117

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USER NAME	DESIGNED - P. Dombrowski	REVISED -
PLOT SCALE	CHECKED - S. Alsbury	REVISED -
PLOT DATE	DRAWN - P. Dombrowski	REVISED -
	CHECKED - 10.21.2022	REVISED -

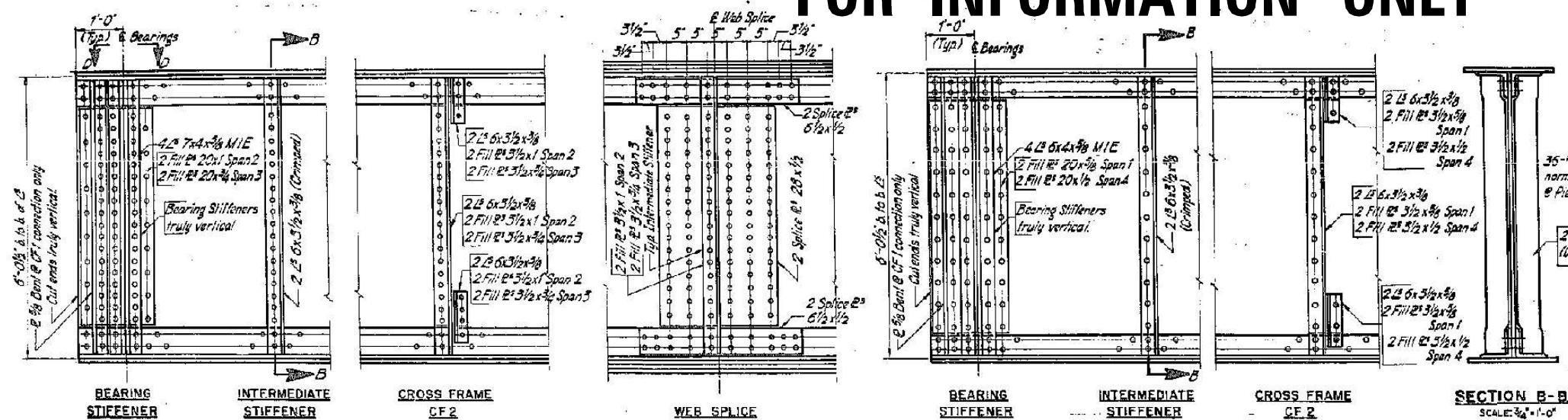
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1963 REFERENCE PLANS
STRUCTURE NO. 016-0020

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 BNSF RR	COOK	20	15
CONTRACT NO. 62U00				
ILLINOIS FED. AID PROJECT				

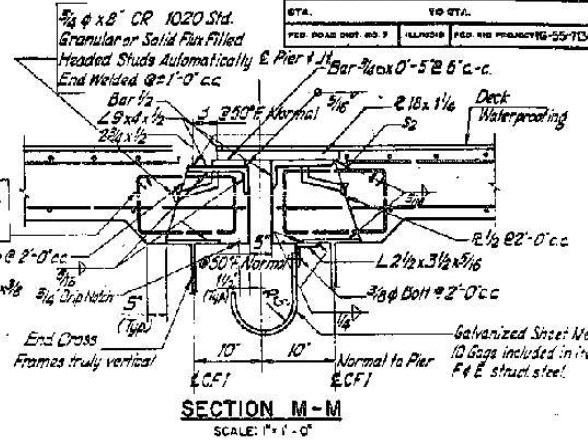
FOR INFORMATION ONLY

SECTION	SPURWAYS	TOTAL SHEETS	SHEET NO.
55	SOUTHWEST	29	16
STA.	TO STA.		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT NO. 25-70(2)2283			

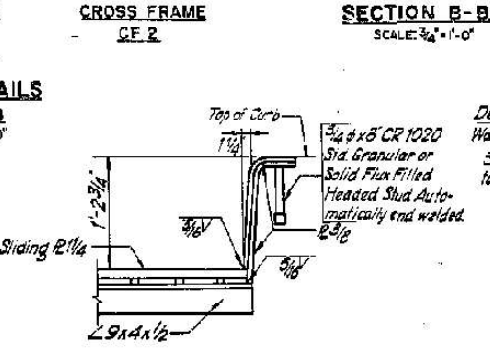


GIRDER DETAILS
SPANS 2 & 3
SCALE: 3/4" = 1'-0"

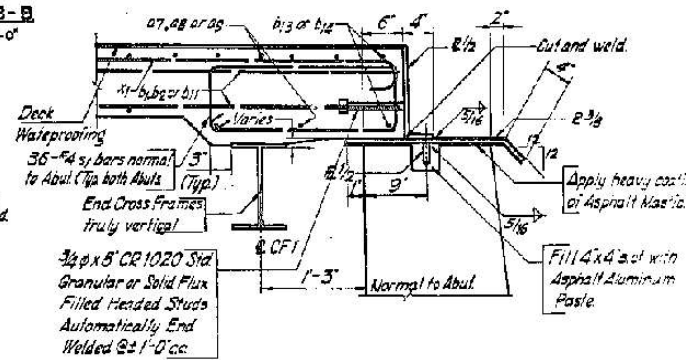
GIRDER DETAILS
SPANS 1 & 4
SCALE: 3/4" = 1'-0"



SECTION M-M
SCALE: 1" = 1'-0"

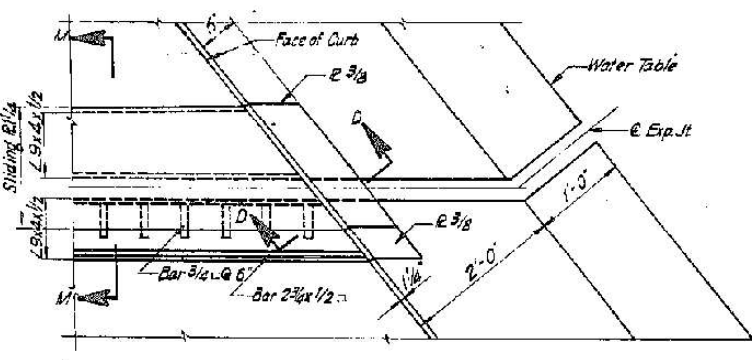


SECTION B-B
SCALE: 3/4" = 1'-0"



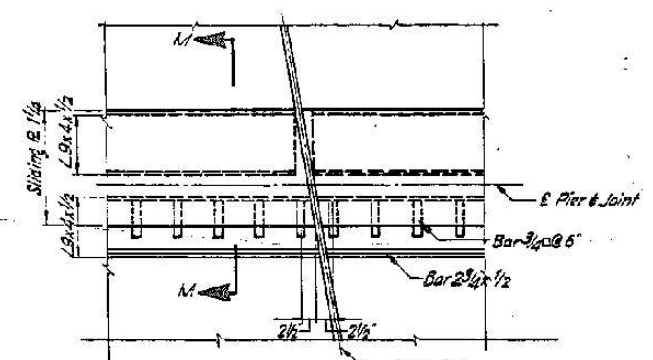
SECTION D-D
SCALE: 1" = 1'-0"

SECTION E-E
SCALE: 1" = 1'-0"

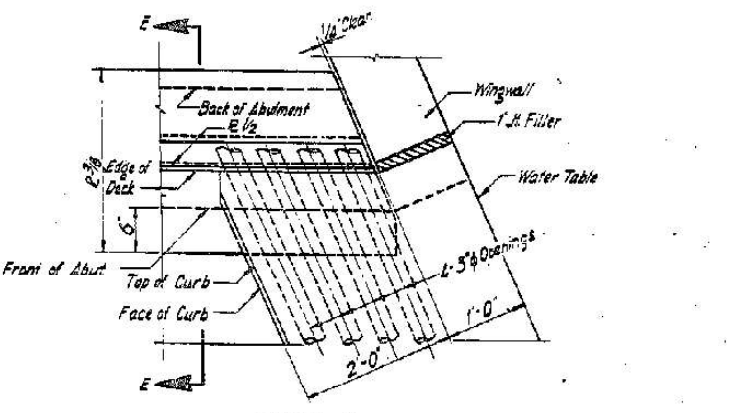


DETAIL 2
AT PIERS
SCALE: 1" = 1'-0"

DETAIL 3 SIMILAR AND OPPOSITE

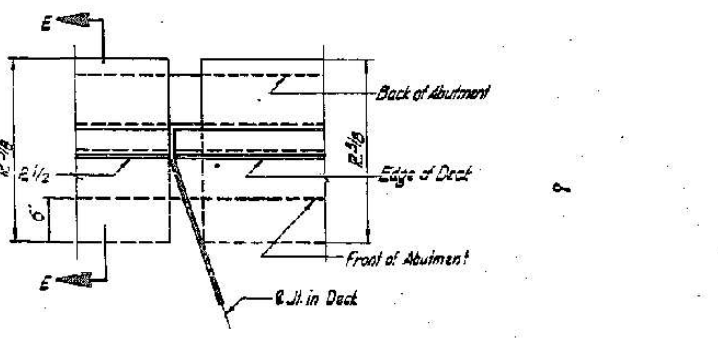


DETAIL 1
AT PIERS
SCALE: 1" = 1'-0"



DETAIL 4
AT ABUTMENTS
SCALE: 1" = 1'-0"

DETAIL 5 SIMILAR AND OPPOSITE



DETAIL 6
AT ABUTMENTS
SCALE: 1" = 1'-0"

NOTES:
1. For details of connection of drain gutter see sheet 17

REVISIONS	
NAME	DATE

ILLINOIS DIVISION OF HIGHWAYS
SOUTHWEST EXPRESSWAY
A.T. & S.F. RY. OVER EXPRESSWAY
GIRDER DETAILS

SCALE: HORIZ. AS SHOWN VERT. AS SHOWN
DATE: MARCH 1963 DRAWN BY: S. Sarge. CHECKED BY: A. Harris

FILE NAME: I:\2022\16041\W0_5\CAD_Sheets\0160020-02U-006-REF3.dgn



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DESIGNED	DRAWN - P. Dombrowski	REVISED -
DESIGNED	CHECKED - 10.21.2022	REVISED -

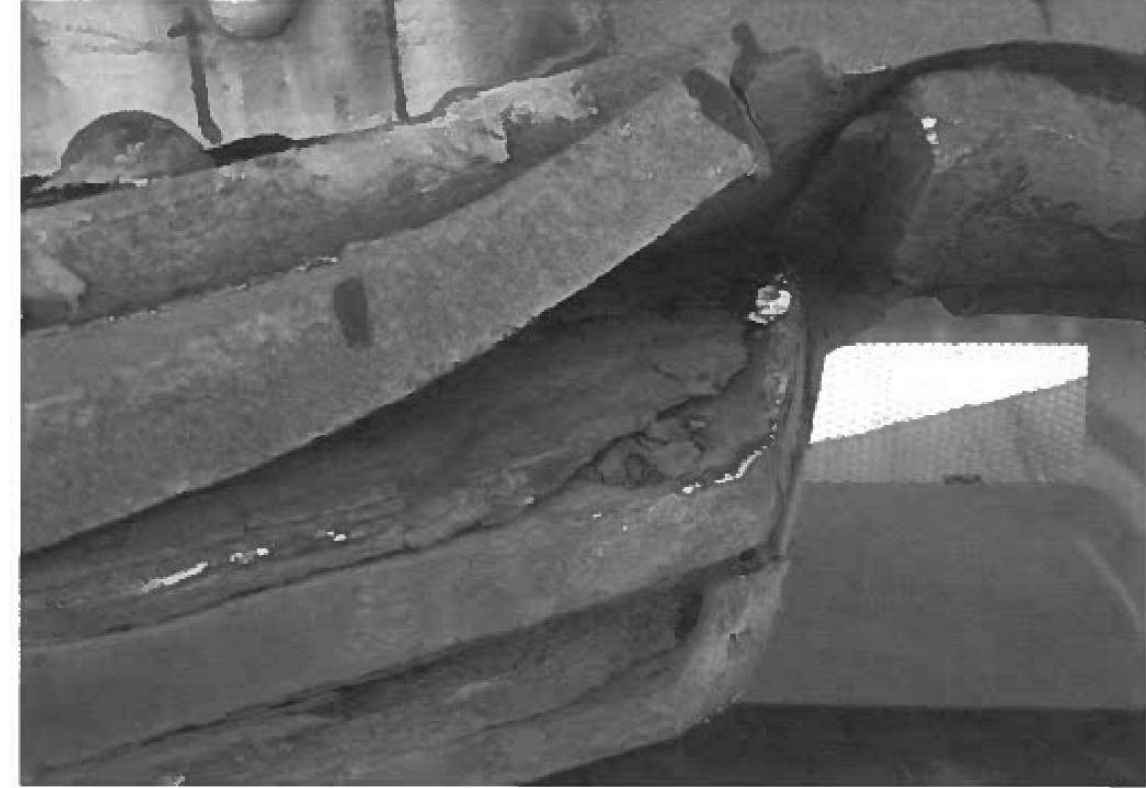
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1963 REFERENCE PLANS
STRUCTURE NO. 016-0020

SHEET 6 OF 8 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 BNSF RR	COOK	20	16
CONTRACT NO. 62U00				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



FILE NAME: I:\2022\60411\WO_5\CAD_Sheets\0160020-62U-007-REF-4.dgn



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	CHECKED - S. Alsbury	REVISED -
PLOT SCALE N.T.S.	DRAWN - P. Dombrowski	REVISED -
PLOT DATE 2/9/2023	CHECKED - 10.21.2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OCTOBER 24, 2020 REFERENCE PHOTOS
STRUCTURE NO. 016-0020

SHEET 7 OF 8 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 BNSF RR	COOK	20	17
CONTRACT NO. 62U00				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



FILE NAME: I:\2022\60411\WO_5\CAD_Sheets\0160020-62U-008-REF5.dgn



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	CHECKED - S. Alsbury	REVISED -
PLOT SCALE N.T.S.	DRAWN - P. Dombrowski	REVISED -
PLOT DATE 2/9/2023	CHECKED - 10.21.2022	REVISED -

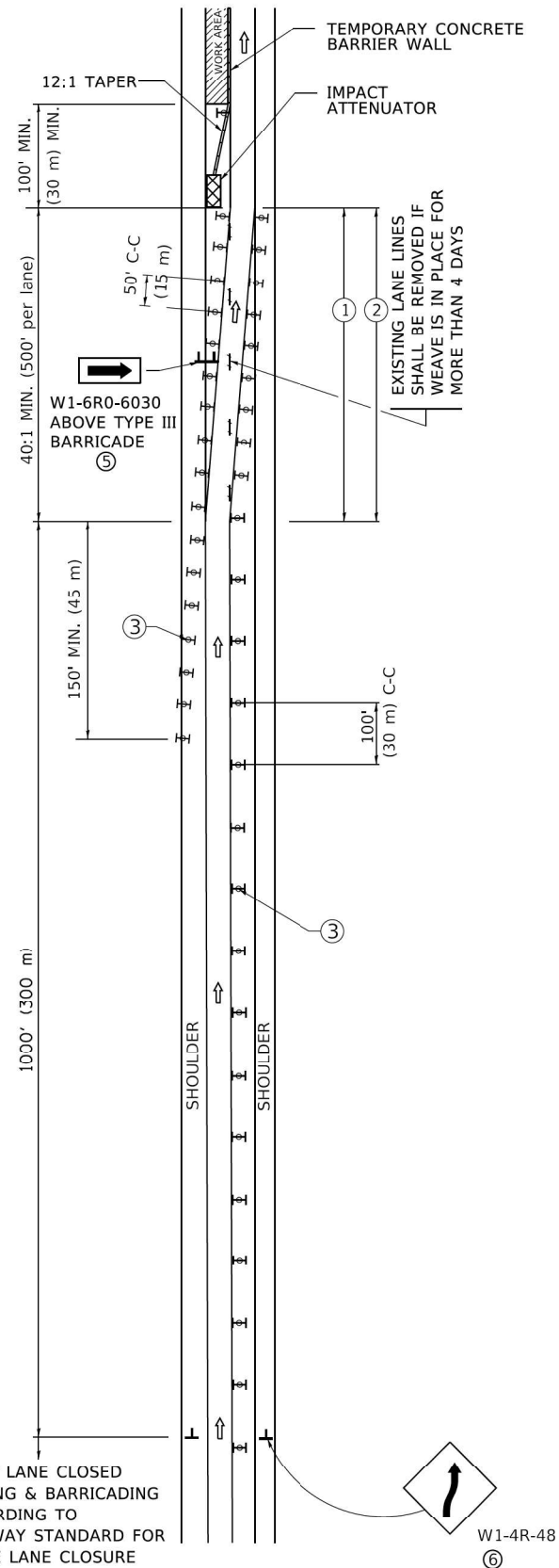
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OCTOBER 24, 2020 REFERENCE PHOTOS
STRUCTURE NO. 016-0020

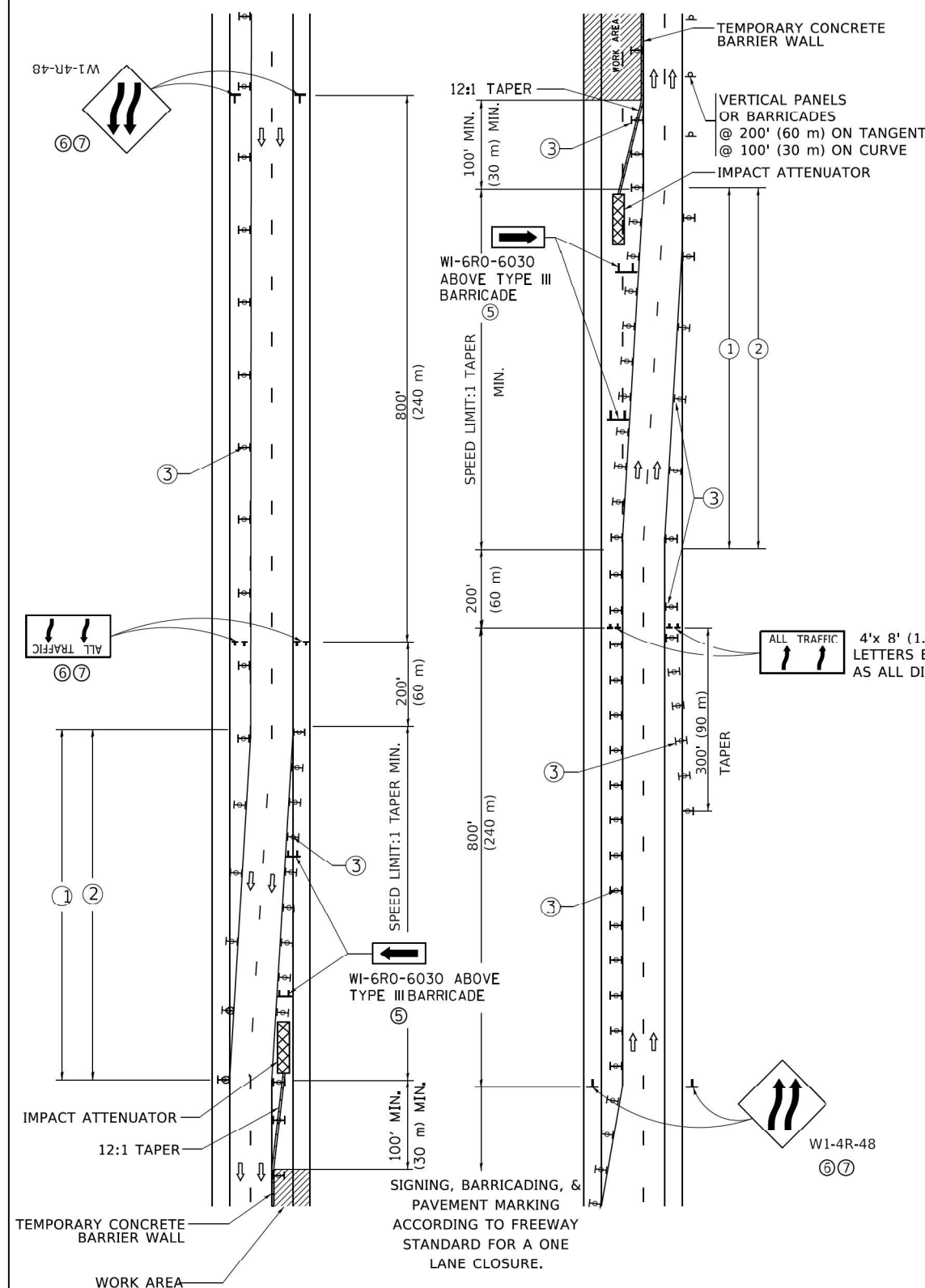
SHEET 5 OF 8 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 BNSF RR	COOK	20	18
CONTRACT NO. 62U00				
ILLINOIS FED. AID PROJECT				

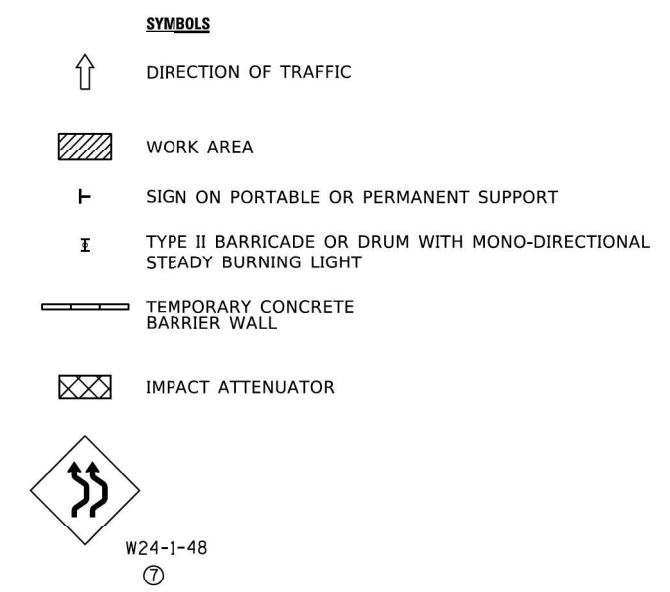
SINGLE LANE WEAVE



MULTI-LANE WEAVE



- GENERAL NOTES:**
- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
 - CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
 - PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
 - ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
 - TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
 - WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
 - THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

MODEL: sheet 1
FILE NAME: 1020226041\W0_SICAD_Sheets\Bham62U00_XXXX_eht-standards.dgn

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USER NAME = hhadjri	DESIGNED - HH	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN - IG	REVISED -
PLOT DATE = 2/1/2023	CHECKED - TPP	REVISED -
	DATE -	REVISED -

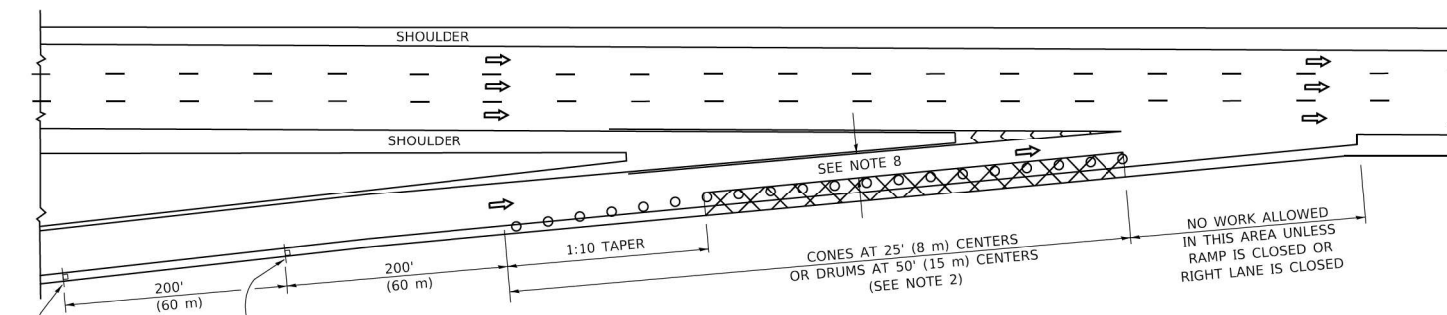
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAILS FOR
FREEWAY SINGLE & MULTI-LANE WEAVE (TC-09)
BNSF RR OVER I-55 STEEL GIRDER REPAIR**

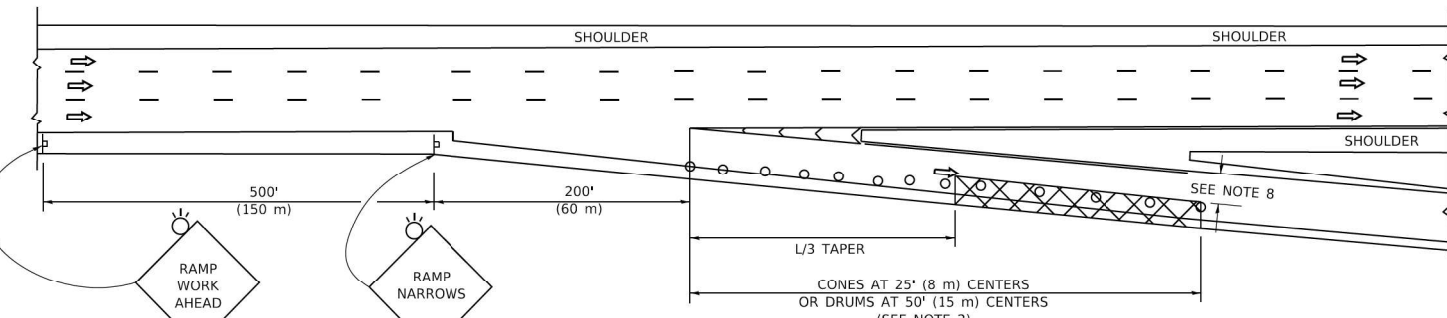
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 BNSF RR	COOK	20	19
CONTRACT NO. 62U00				
ILLINOIS FED. AID PROJECT				

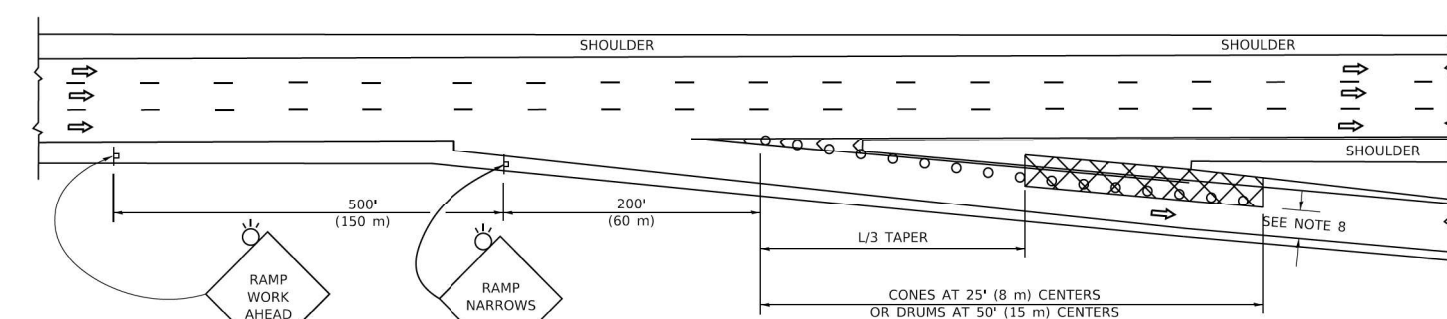
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

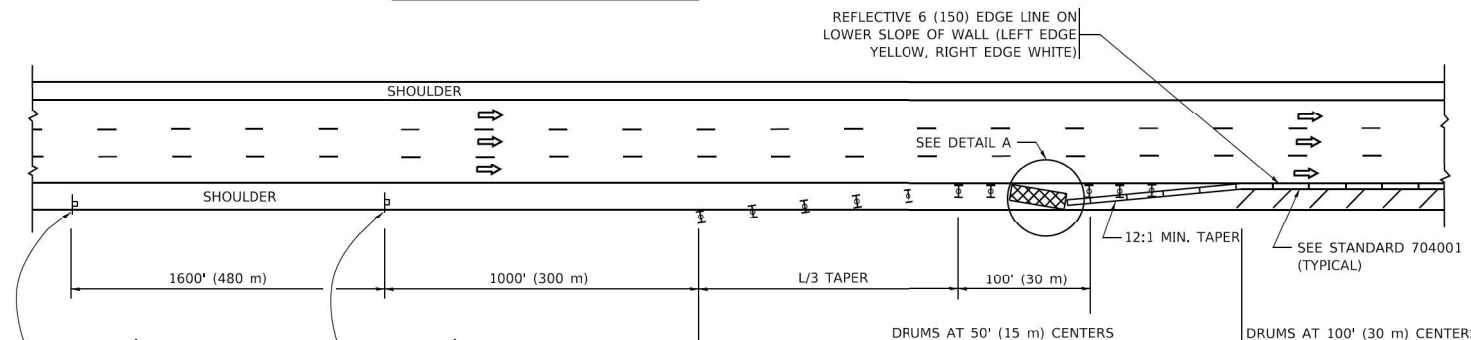
GENERAL NOTES:

1. THE "L" DISTANCE EQUALS:

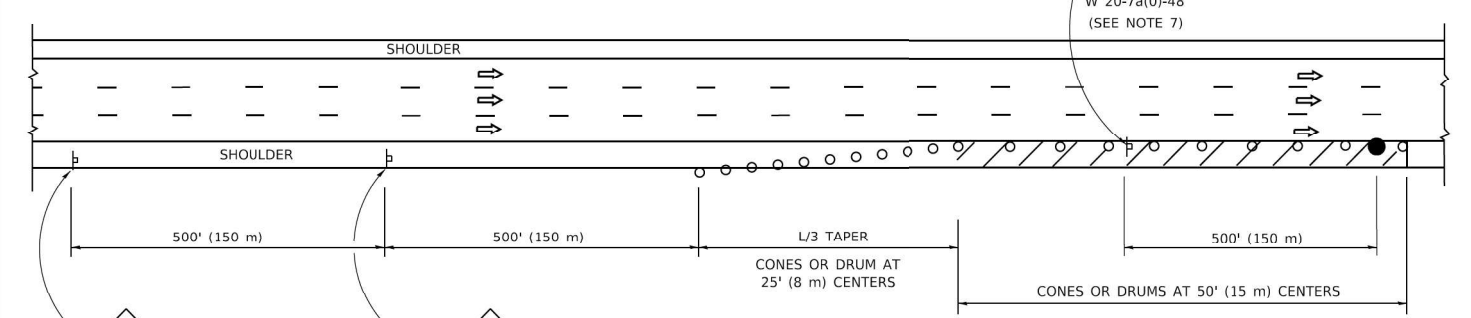
SPEED LIMIT	FORMULAS
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER	$L=0.65(W/S)$ $L=(W/S)$

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)
2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350/MASH COMPLIANT.

DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

MODEL: sheet 2
FILE NAME: I:\2022\6061\W0_S\CAD_Sheets\Bnsf\62U00_XXXX_gh-standard.dwg

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PLOT DATE = 2/1/2023	CHECKED - TPP	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)
BNSF RR OVER I-55 STEEL GIRDER REPAIR**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 55 22 BNSF RR	COOK	20	20
CONTRACT NO. 62U00				
ILLINOIS FED. AID PROJECT				