

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	(104-B) BP 24	VAR	19	1
		ILLINOIS	CONTRACT NO. 62X22	

(104-B) BP 24

D-91-007-25

FOR INDEX OF SHEETS, SEE SHEET NO.

THIS PROJECT IS LOCATED IN THE VILLAGES OF TINLEY PARK
AND FRANKFORT, AND THE CITY OF LOCKPORT

PROPOSED
HIGHWAY PLANS

FAP ROUTE: VARIOUS LOCATION

- 1) NEW AVENUE OVER LONG RUN CREEK OVERFLOW (SN-099-0299)
- 2) US 45 OVER HICKORY CREEK (SN: 099-0293)
- 3) IL 43 (HARLEM AVE.) OVER I-80 (SN: 016-0325)

SECTION : (104-B) BP 24
BRIDGE PAINTING
WILL & COOK COUNTIES

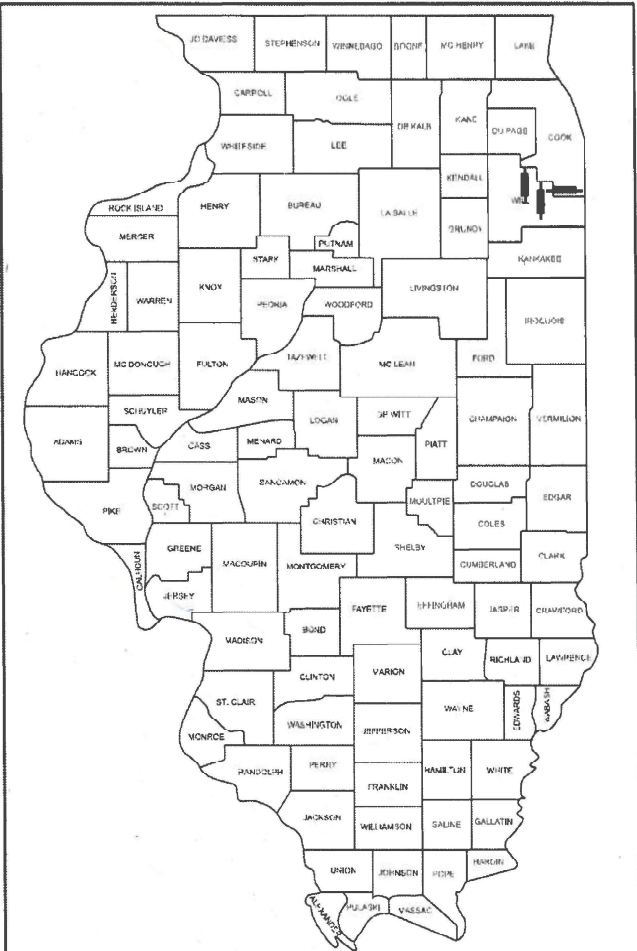
C-91-007-25

TRAFFIC DATA

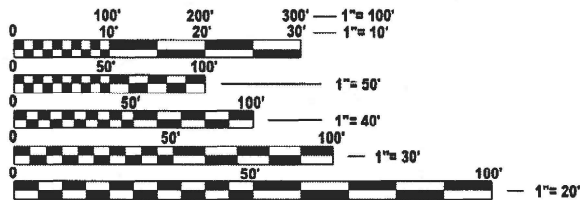
LOCATION #1:
NEW AVENUE OVER LONG RUN CREEK OVERFLOW (SN: 099-0299)
ADT: 5,450 (2023)
SPEED LIMIT: 55 MPH

LOCATION #2:
US 45 OVER HICKORY CREEK (SN: 099-0293)
ADT: 30,500 (2023)
SPEED LIMIT: 45 MPH

LOCATION #3:
IL 43 (HARLEM AVE.) OVER I-80 (SN: 016-0325)
ADT: (I-80) = 100,400 (2023)
ADT: IL 43 = 34,200 (2023)
SPEED LIMIT: (I-80) 65 MPH
SPEED LIMIT: (IL 43) 45 MPH



LOCATION OF SECTION INDICATED THUS: -



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

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

PROJECT ENGINEER: RODRIGO LEDEZMA (847) 705-4580
PROJECT MANAGER: J. ALAIN MIDY (847) 221-3056

CONTRACT NO. 62X22

FOR PROJECT LOCATION MAPS
SEE SHEET 3

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Feb 3rd 2025
[Signature] REGIONAL ENGINEER
March 21 2025
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT
March 21 2025
[Signature] 5
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
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8-11	EXISTING BRIDGE PLANS (SN 099-0293)
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16	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE (TC-09)
17	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
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STATE STANDARDS

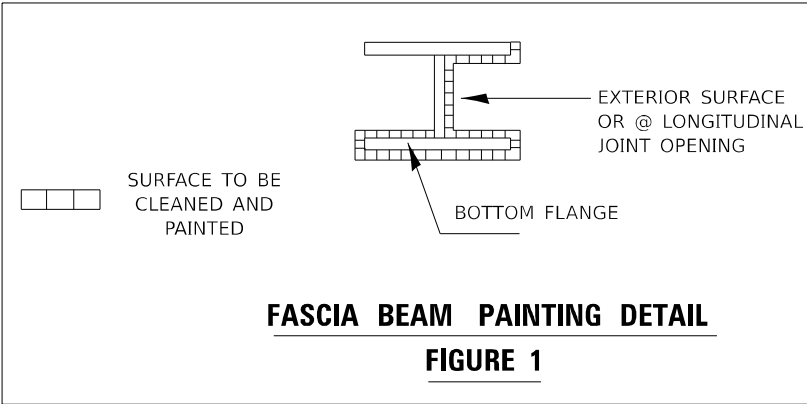
STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701006-05	OFF-ROAD OPERATIONS 2L 2W 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L 2W, DAY ONLY 45 MPH OR MORE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-13	LANE CLOSURE FREEWAY EXPRESSWAY DAY OPERATIONS ONLY
701411-09	LANE CLOSURE MULTILANE ENTRANCE OR EXIT RAMP 45 MPH OR MORE
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701601-09	URBAN LANE CLOSURE MULTILANE, 1W 2W WITH NONTRAVERSABLE MEDIAN
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-10	TRAFFIC CONTROL DEVICES

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE VILLAGES OF TINLEY PARK AND FRANKFORT AND THE CITY OF LOCKPORT AND OBTAIN ALL NECESSARY PERMITS.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN THE EXISTING BRIDGE LIGHTING AT ANY LOCATIONS THAT LIGHTING IS ENCOUNTERED ADJACENT TO AN AREA TO BE CLEANED AND PAINTED.
6. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
8. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHTTIME OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJACENT RESIDENTIAL AREAS.
9. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS WHEN WORKING NEAR THE ABUTMENTS IF ELECTRICAL JUNCTIONS BOXES AND ATTACHED CONDUITS ARE PRESENT.
10. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4151 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK ON EXPRESSWAYS.
11. THE "ARTERIAL ROAD INFORMATION SIGN (TC-22)" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS/TOLLWAYS.
12. THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

GENERAL PAINT NOTES

1. CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".
2. ALL ITEMS (SUCH AS, BUT NOT LIMITED TO: CONDUITS, BRACKETS AND DECK DRAINS) ATTACHED TO OUTSIDE OF THE FASCIA BEAMS SHOULD BE CLEANES AND PAINTED.
3. LOCATION 1 (SN 099-0299) & LOCATION 2 (SN 099-0293): ALL GIRDERS, BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.
4. LOCATION 3 (SN 016-0325): THE EXTERIOR SURFACES AND TOP AND BOTTOM FLANGE OF THE FASCIA BEAM OUTSIDE THE DECK JOINTS FOR THE LENGTH OF THE BRIDGE (SEE FIGURE 1) SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. BEARINGS AND ALL OTHER STRUCTURAL STEEL WITHIN 5 FEET (MEASURED ALONG THE BEAM) OF THE ABUTMENTS SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10.
5. ALL AREAS THAT ARE DESIGNATED TO BE CLEANED SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 -0Z/E/U. 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 SHALL BE REDDISH BROWN, MUNSELL NO 2. 5YR 3/4.
6. A MINIMUM OF 2 AIR MONITORS AT EVERY LOCATION WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS. SEE SPECAIL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUE".
7. SSPC QP1 AND SSPC QP2 CERTIFICATION IS REQUIRED FOR THIS CONTRACT.



FASCIA BEAM PAINTING DETAIL
FIGURE 1

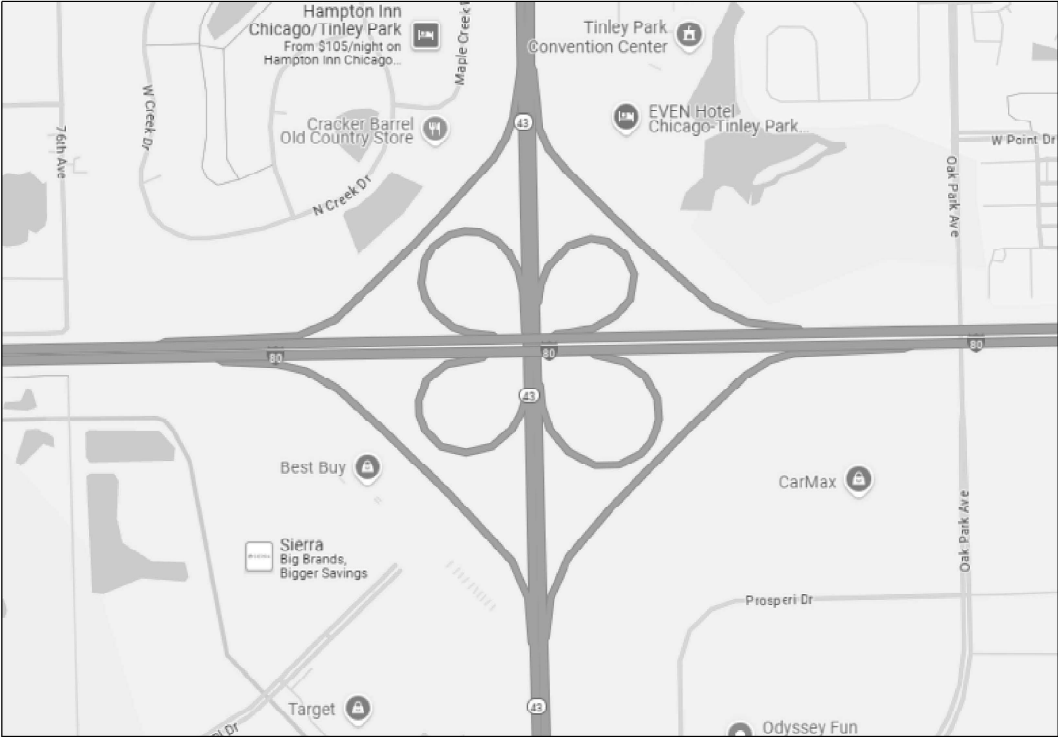
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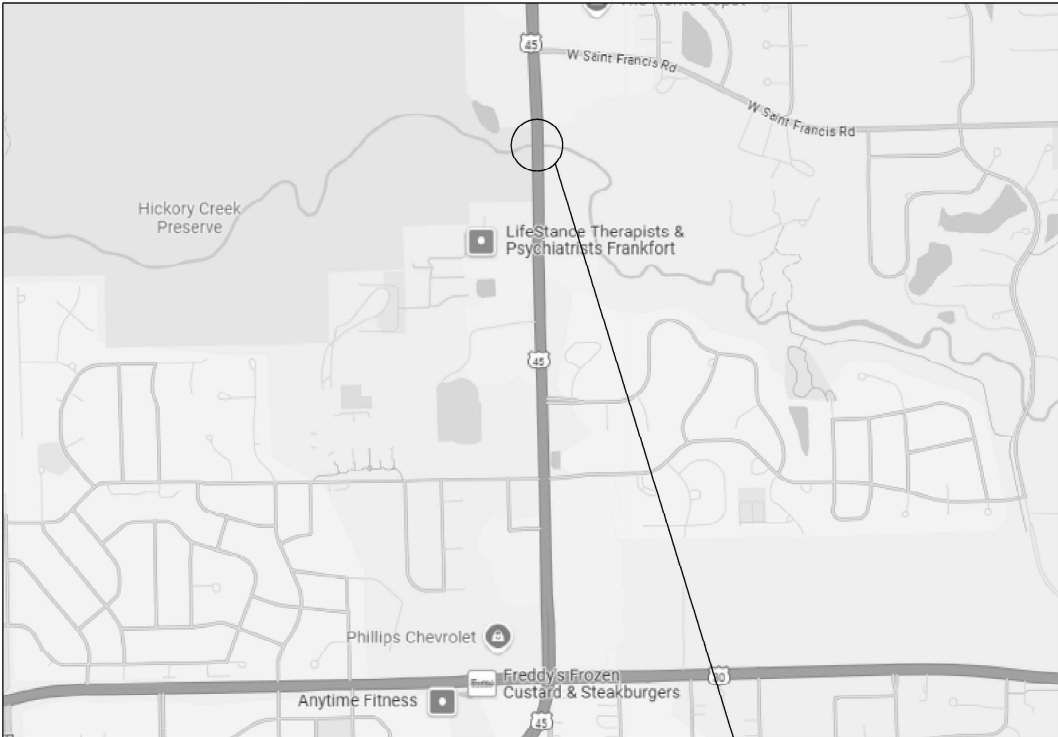
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		DRAWN -	REVISED -					VAR	(104-B) BP 24	VAR	19	2
		CHECKED -	REVISED -					CONTRACT NO. 62X22				
	PLOT DATE = 2/5/2025	DATE -	REVISED -		SCALE:	SHEET 1	OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



LOCATION #1:
NEW AVENUE OVER LONG RUN CREEK OVERFLOW (SN: 099-0299)
ADT: 5,450 (2023)
SPEED LIMIT: 55 MPH



LOCATION #3:
IL 43 (HARLEM AVE.) OVER I-80 (SN: 016-0325)
ADT: (I-80) = 100,400 (2023)
ADT: IL 43 = 34,200 (2023)
SPEED LIMIT: (I-80) 65 MPH
SPEED LIMIT: (IL 43) 45 MPH



LOCATION #2:
US 45 OVER HICKORY CREEK (SN: 099-0293)
ADT: 30,500 (2023)
SPEED LIMIT: 45 MPH

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		CHECKED	-	REVISED	-
PLOT DATE	= 2/5/2025	DATE	-	REVISED	-

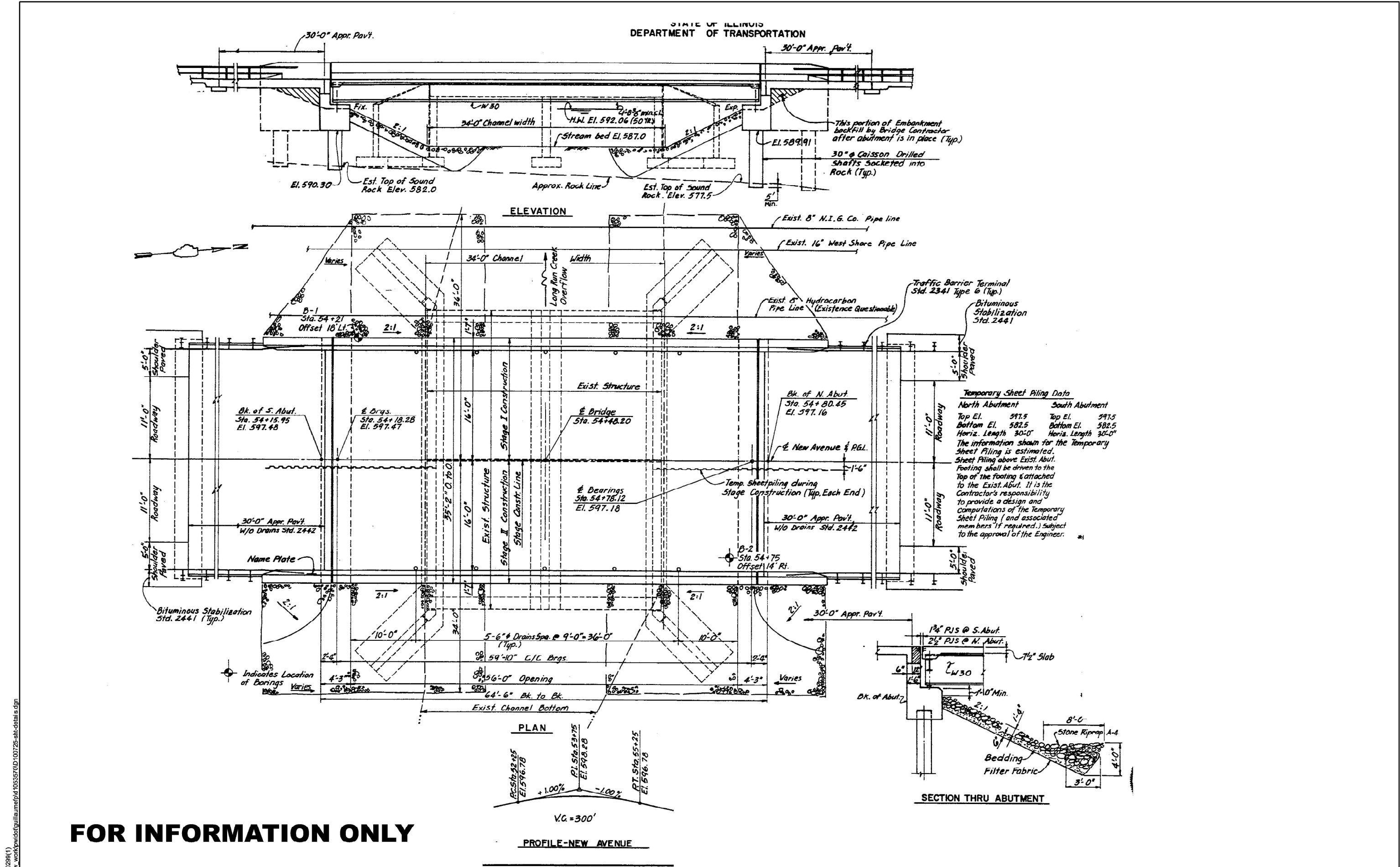
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAPS
VARIOUS BRIDGE PAINTINGS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	(104-B) BP 24	VAR	19	3
CONTRACT NO. 62X22				
ILLINOIS FED. AID PROJECT				

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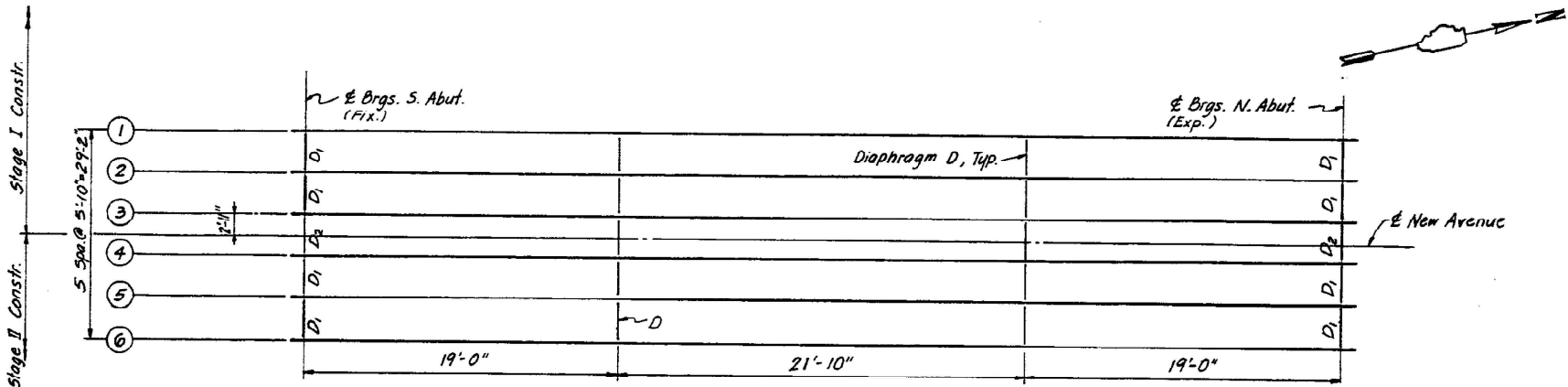
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	DRAWN -	REVISED -
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PLOT DATE = 2/6/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

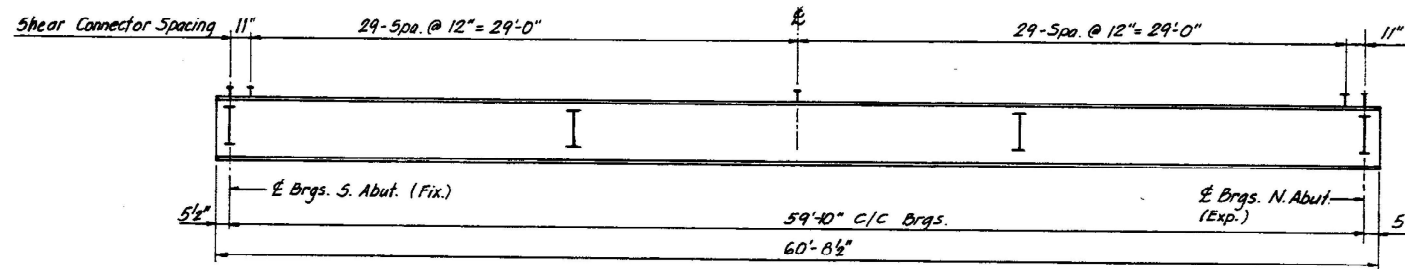
LOCATION 1: SN 099-0299
NEW AVENUE OVER LONG RUN CREEK OVERFLOW

SCALE: SHEET 1 OF 10 SHEETS STA. 0+00.00 TO STA. 0+00.00

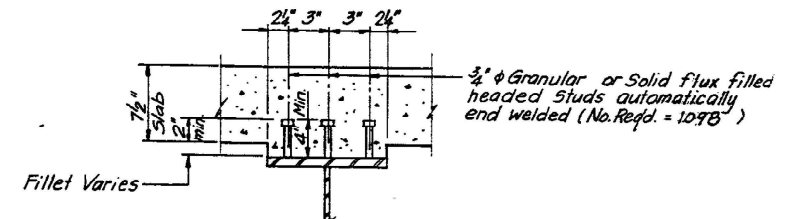
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CONTRACT NO. 62X22				
ILLINOIS FED. AID PROJECT				



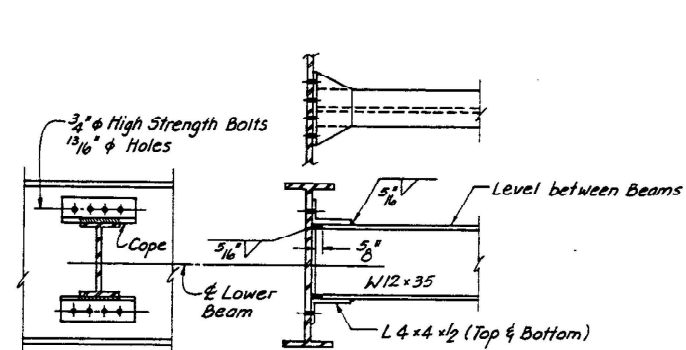
FRAMING PLAN



BEAM ELEVATION
(W30x148, M270, Gr. 50 N.T.R.
Typ. All Beams.)

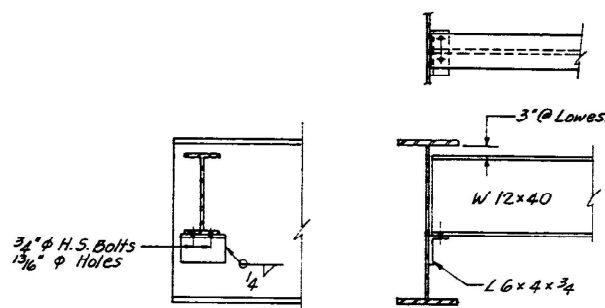


FOR INFORMATION ONLY



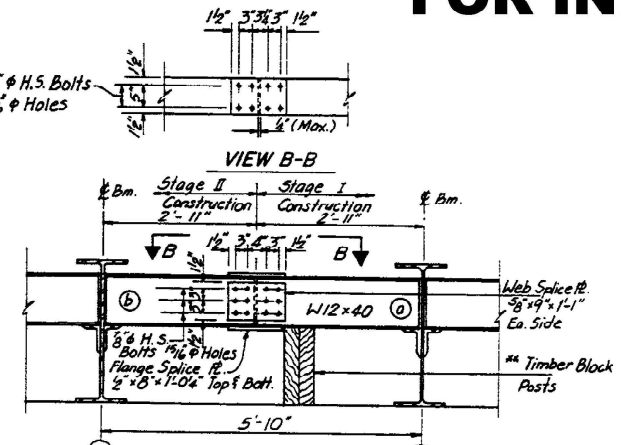
DIAPHRAGM D
(10 Required)

Note: Two hardened washers shall be required over all holes.



END DIAPHRAGM D1
(0 Required)

Note: Two hardened washers shall be required over all oversized holes.



DIAPHRAGM D2
(2 Required)

Dimension are along E. Diaphragm (Looking South)
For details of connections to beams see diaphragm D1

MODEL: SN099-0299(2)
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DRAWN -	REVISED -	
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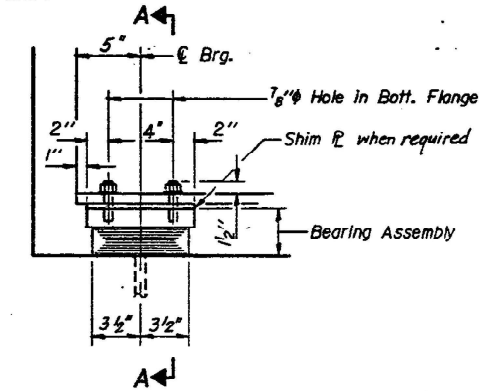
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 1: SN 099-0299
NEW AVENUE OVER LONG RUN CREEK OVERFLOW

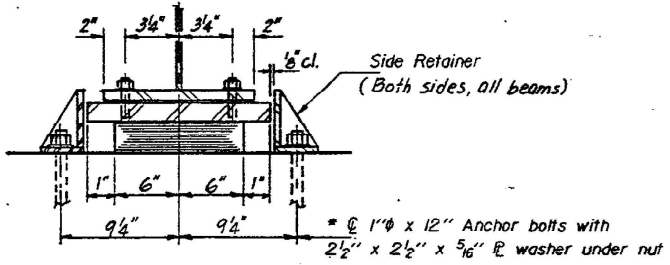
SCALE: SHEET 2 OF 10 SHEETS STA. 0+00.00 TO STA. 0+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62X22				
ILLINOIS FED. AID PROJECT				

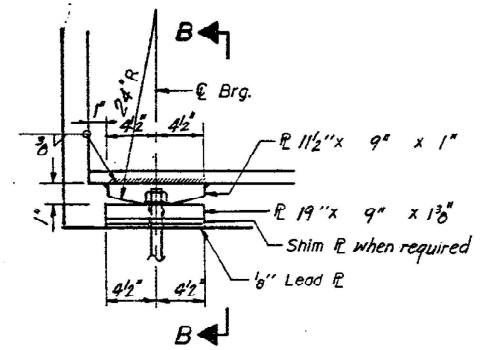
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



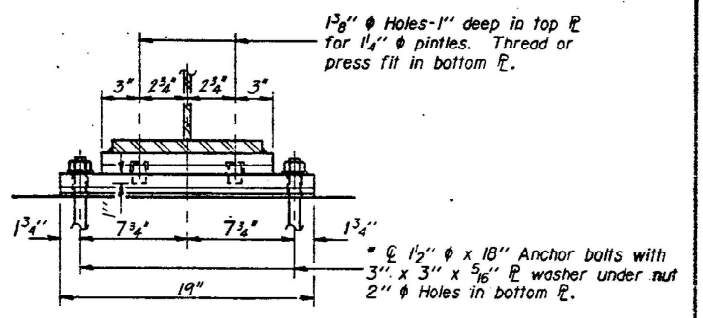
ELEVATION AT N. ABUT.



SECTION A-A

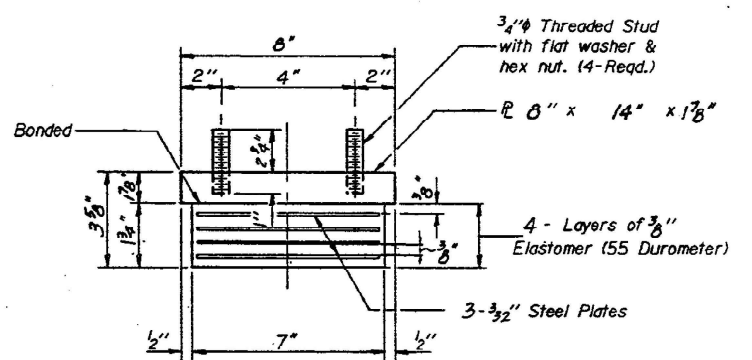


ELEVATION AT S. ABUT.



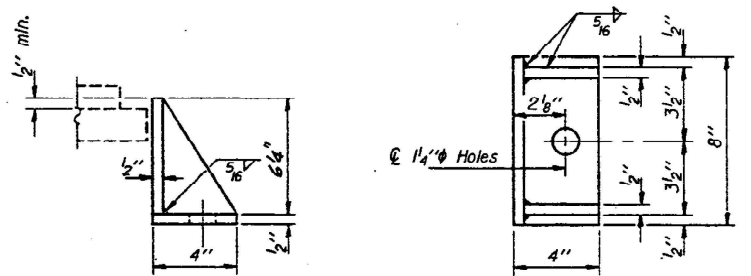
SECTION B-B

TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

Note: Shim plates shall not be placed under Bearing Assembly.



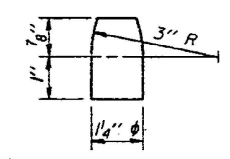
SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. (12 Required)

* Notes: Anchor bolts at fixed bearings may be built into the masonry.
See sheet #9 for Anchor Bolt installation.

FIXED BEARING

(6 Required; weight included in Structural Steel AASHTO M183)



PINTLE

MOMENT TABLE FOR
COMPOSITE SINGLE SPAN BEAM

INTERIOR BEAM MOMENT TABLE		0.5 Sp.	
<i>I_s</i>	(in ⁴)	6,680	
<i>I_c</i>	(in ⁴)	16,514	
<i>S_s</i>	(in ³)	436	
<i>S_c</i>	(in ³)	621.8	
<i>Z</i>	(in ³)	-	
<i>P</i>	(K/ft.)	0.719	
* <i>M_E</i>	(K)	322	
* <i>S_E</i>	(K/ft.)	0.270	
* <i>M_{sE}</i>	(K)	121	
* <i>M_E</i>	(K)	426	
* <i>M (Imp)</i>	(K)	115	
* <i>S_E(M_E+I)</i>	(K)	902	
<i>M_D</i>	(K)	1,728.5	
<i>M_U</i>	(K)	-	
* <i>f_{sE} non-comp (K.S.I)</i>		8.86	
* <i>f_{sE} (comp) (K.S.I)</i>		2.34	
* <i>f_{sE} (E+I) (K.S.I)</i>		17.41	
* <i>f_s (overload) (K.S.I)</i>		28.61	
* <i>f_s (Total) (K.S.I)</i>		37.19	
* <i>VR</i>	(K)	-	

* INTERIOR BEAM REACTION TABLE

		Abuts	
<i>R_E</i>	(K)	22.6	
<i>R_E</i>	(K)	36.3	
<i>Imp</i>	(K)	9.8	
<i>R (Total)</i>	(K)	75.7	

FOR INFORMATION ONLY

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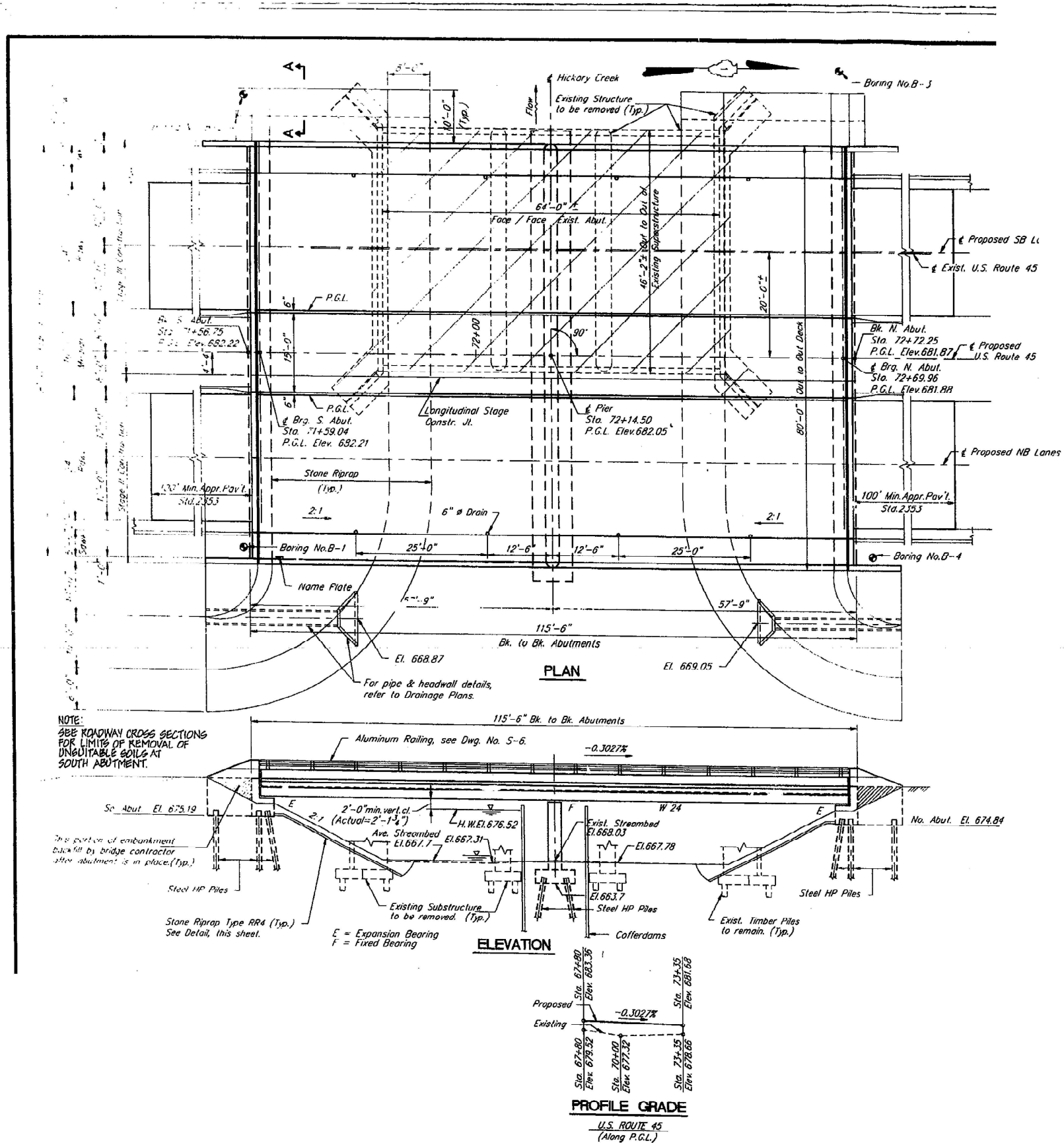
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PLOT DATE = 2/6/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 1: SN 099-0299
NEW AVENUE OVER LONG RUN CREEK OVERFLOW

SCALE: SHEET 3 OF 10 SHEETS STA. 0+00.00 TO STA. 0+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	(104-B) BP 24	VAR	19	7
CONTRACT NO. 62X22				
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY

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PLOT DATE = 2/6/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 2: SN 099-0293
US 45 OVER HICKORY CREEK**

SCALE: SHEET 4 OF 10 SHEETS STA. 0+00.00 TO STA. 0+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	(104-B) BP 24	VAR	19	8
CONTRACT NO. 62X22				
ILLINOIS FED. AID PROJECT				

Proposed U.S. Route 45

The Number of Lanes Normally Used

68'-0" Face to Face of Curb

24'-0"

16'-0"

24'-0"

8'-0"

SB Lanes

NB Lanes

Longitudinal Stage Construction of Bridge Deck

Stage II Construction

Stage III Construction

12 Spaces @ 6'-4" = 76'-0"

80'-0" Out to Out Deck

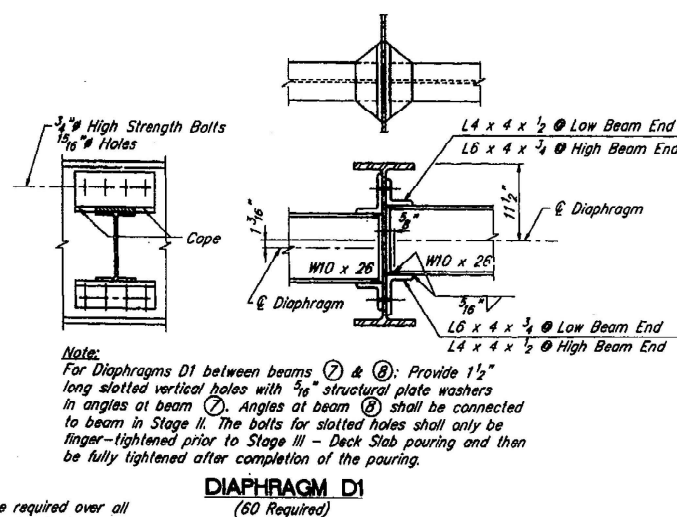
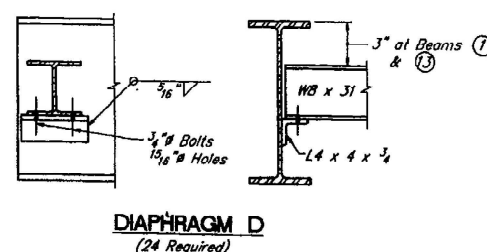
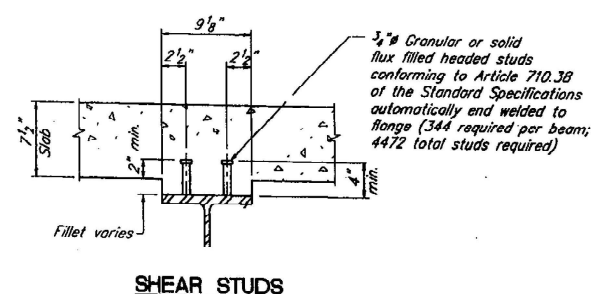
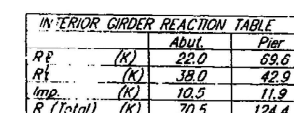
CROSS SECTION

(Looking North)

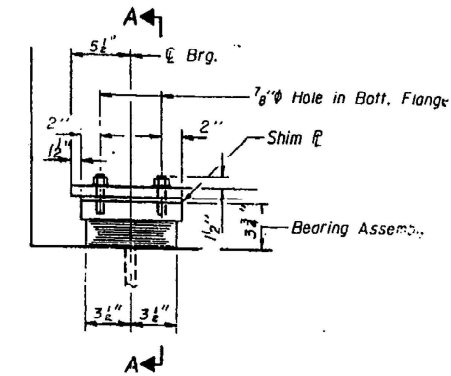
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	DRAWN -	REVISED -						VAR	(104-B) BP 24	VAR	19	9
	CHECKED -	REVISED -		CONTRACT NO. 62X22								
PLOT DATE = 2/6/2025	DATE -	REVISED -		SCALE:	SHEET 5	OF 10	SHEETS	STA. 0+00.00	TO STA. 0+00.00			

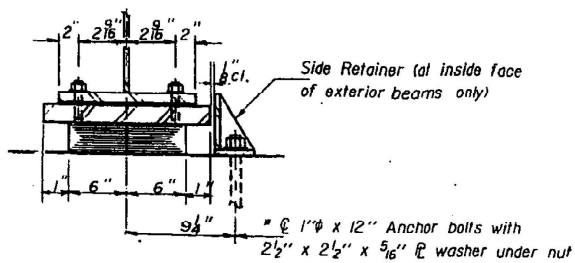
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*Note: Two hardened washers shall be required over all
oversize and slotted bolt holes for diaphragms.*

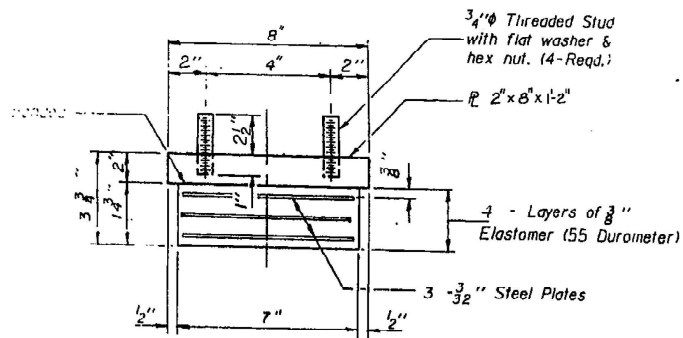


ELEVATION AT ABUT.



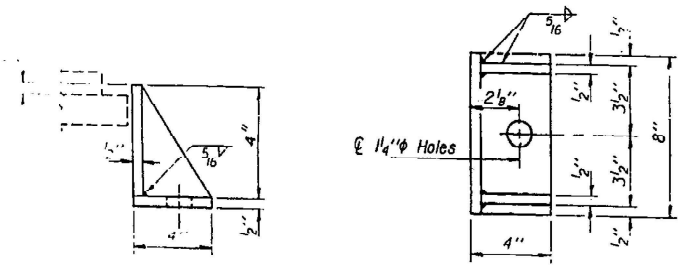
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.

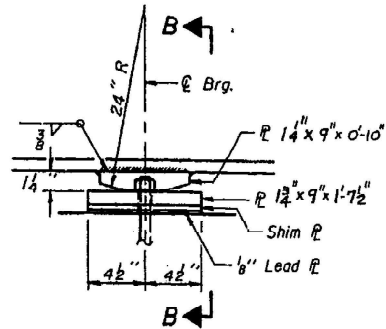


BEARING ASSEMBLY

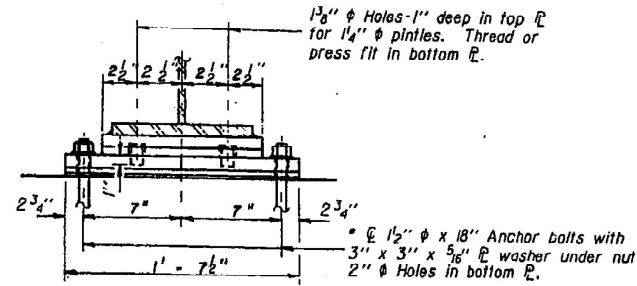
Note: Shim plates shall not be placed under Bearing Assembly.



* Notes: Anchor bolts at fixed bearings may be built into the masonry.
See Dwg. S-26 for Anchor Bolt Installation.

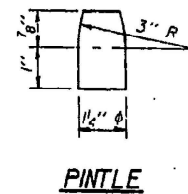


ELEVATION AT PIER



SECTION B-B

FIXED BEARING
(13 REQUIRED)



PINTLE

FOR INFORMATION ONLY

MODEL: SN099-0293(5)
FILE NAME: c:\pwworking\guillaume\p04105357\00100725-ahh-details.dgn

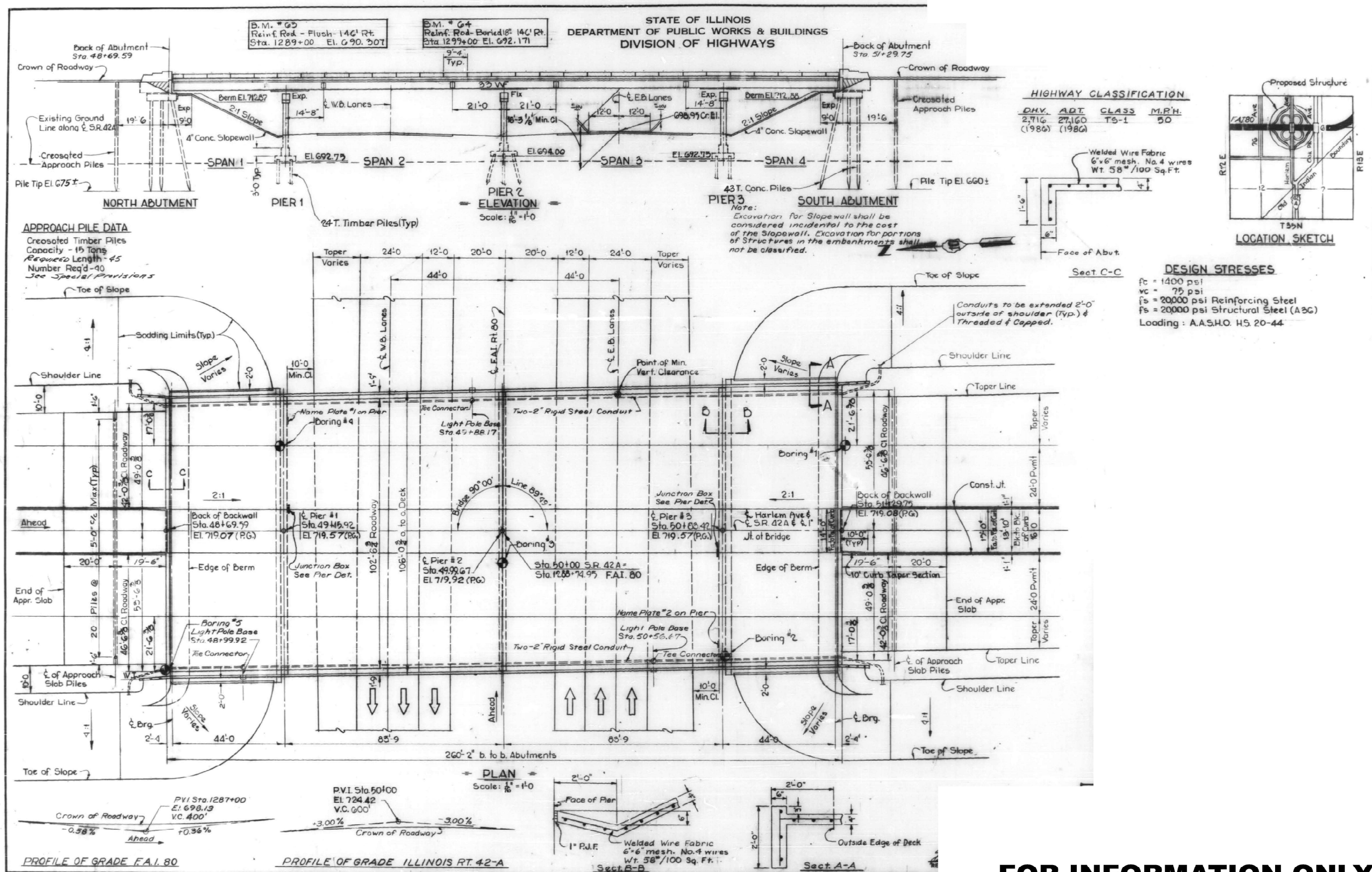
USER NAME = Fritz, Guillaume	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/6/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 2: SN 099-0293
US 45 OVER HICKORY CREEK

SCALE: SHEET 7 OF 10 SHEETS STA. 0+00.00 TO STA. 0+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	(104-B) BP 24	VAR	19	11
CONTRACT NO. 62X22				
ILLINOIS FED. AID PROJECT				



STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

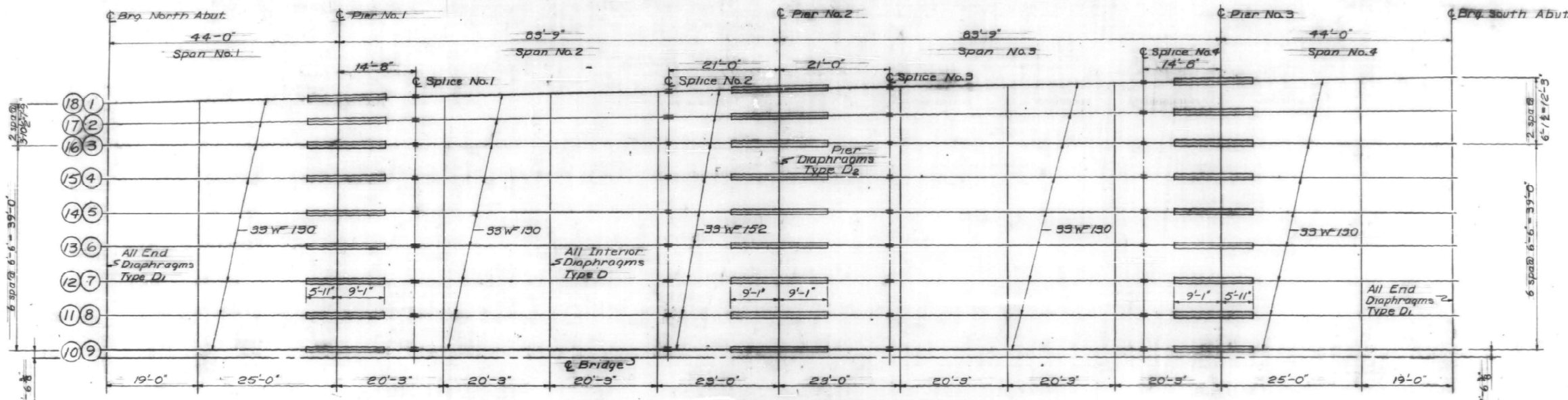


TABLE OF "t" DIMENSIONS (Shim Thick.)

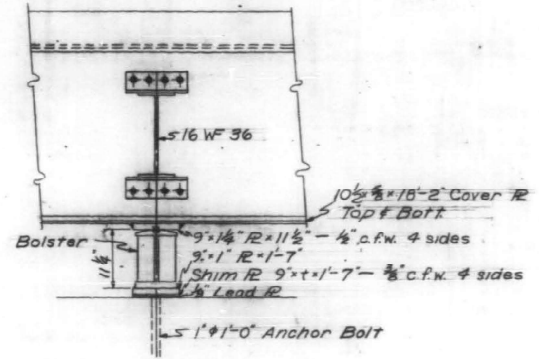
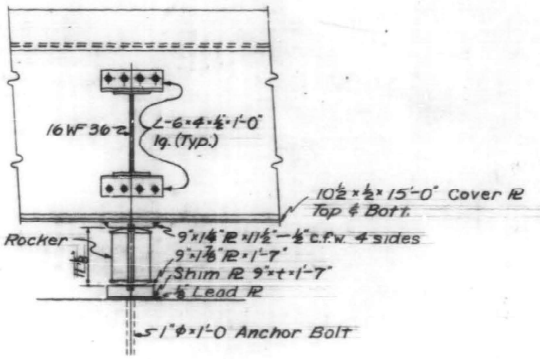
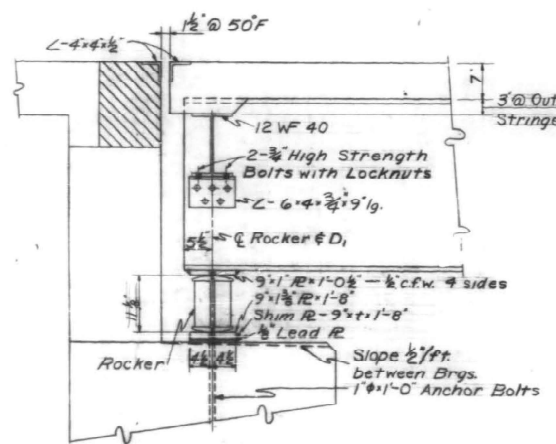
BEAM LOCATION	8,9	10,11	7,12	6,13	5,14	4,15	3,16	2	1	17	18
North Abut.	1/2"	0"	1/4"	1/8"	0"	0"	0"	7/8"	0"	0"	0"
Pier No. 1	5/8"	3/8"	3/8"	1/4"	1/8"	0"	0"	1"	0"	3/16"	1/4"
Pier No. 2	5/8"	3/8"	3/8"	1/4"	1/8"	0"	0"	0"	0"	0"	0"
Pier No. 3	5/8"	3/8"	3/8"	1/4"	1/8"	0"	0"	7/8"	1/4"	1/8"	0"
South Abut.	1/2"	1/8"	1/4"	1/8"	0"	1/8"	1/8"	1/8"	1/8"	1/8"	0"

STRUCTURAL STEEL	
A-36	793,200Lb
Lead Plates	800 Lb
Total Structural Steel	794,000Lb

CONDUIT	
Conduit Attached to Structure (2" Dia Galvanized Steel)	1040Lb

Note:
The Location of the Anchor Bolts and the Vertical Alignment of the Expansion Bearings shall be Adjusted to the Temp. at the Time of Erection. See Art. 54.9 of Std. Specs.
Anchor Bolts shall be Grouted into Drilled Holes after Beams are in place or Bolts at Fixed Pier may be Bolted into the Masonry.

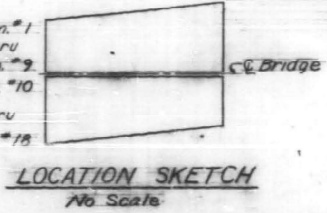
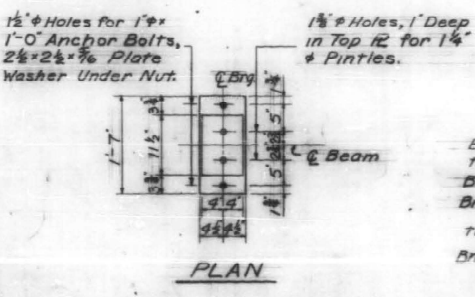
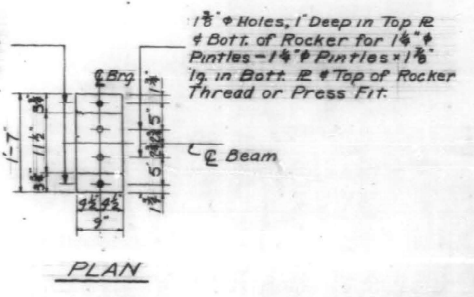
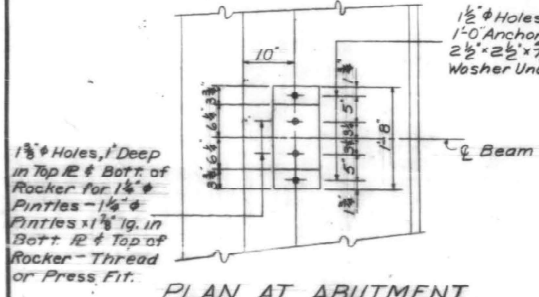
* Weight of Rockers, Bearing Plates, Lead Plates & Anchor Bolts included as Structural Steel. Also of Bolsters.



SECTION AT ABUTMENT
Scale: 3/8" = 1'-0" Unless Noted

PIER No. 1 & 3

PIER No. 2



STRUCTURAL STEEL DETAILS
HARLEM AVENUE OVER
FAL RT. 80 SEC. 1213-825-HBK
COOK AND WILL COUNTY
STATION 1288+74.95

MODEL: SN016-0325(4)
FILE NAME: c:\pwworking\dwg\guillaume\p1053570D\100725-shh-details.dgn

USER NAME = Fritz, Guillaume	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 2/6/2025	DATE -	REVISED -

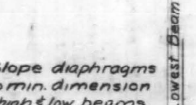
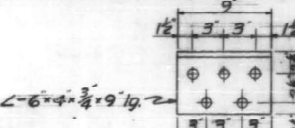
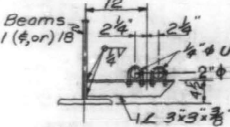
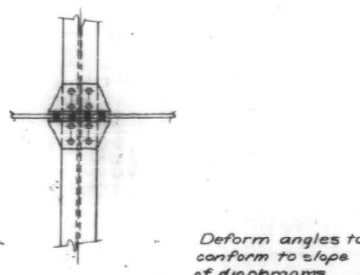
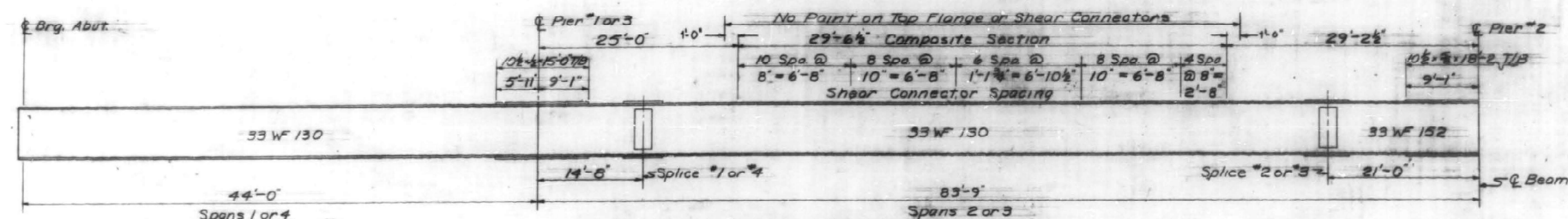
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 3: SN 016-0325
IL 43 (HARLEM AVE.) OVER I-80

SCALE: SHEET 9 OF 10 SHEETS STA. 0+00.00 TO STA. 0+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	(104-B) BP 24	VAR	19	13
CONTRACT NO. 62X22				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

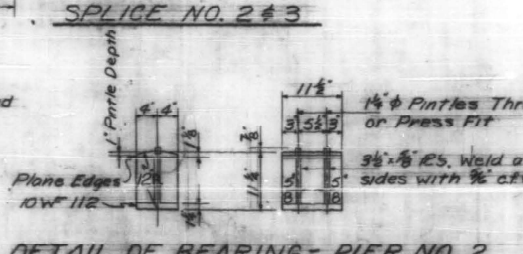
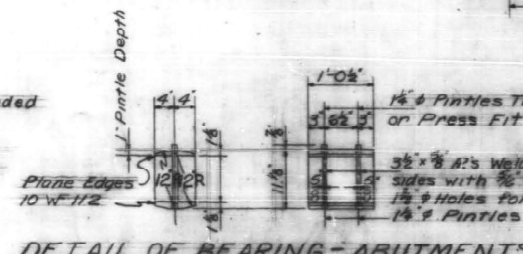
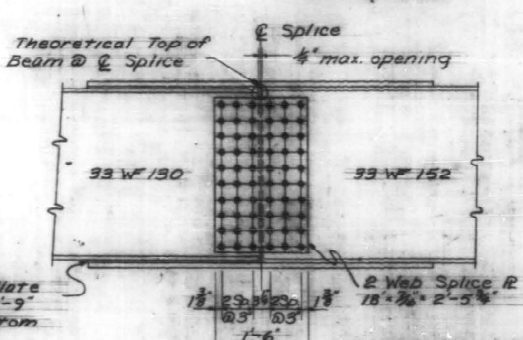
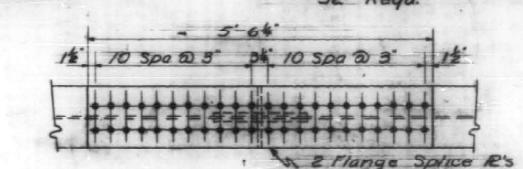
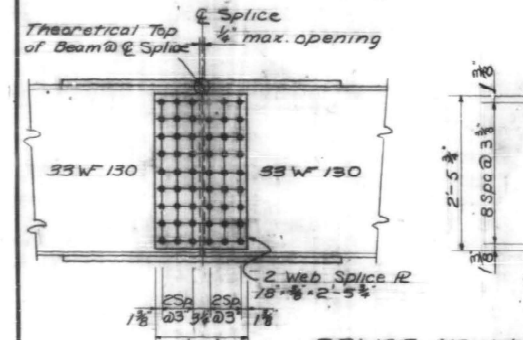
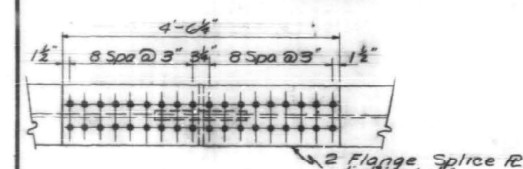


(For Fabrication)
THEORETICAL ELEVATION TOP OF BEAMS

Beam	8.9	7.12	6.13	5.14	4.15	3.16	2	1	17	18
Location	10.11	7.12	6.13	5.14	4.15	3.16	2	1	17	18
Brig. No. Abut.	718.517	718.480	718.371	718.285	718.100	717.964	717.886	717.808	717.839	717.714
Brig. Pier #1	718.916	718.879	718.770	718.635	718.499	718.364	718.276	718.188	718.245	718.126
Splice #1	719.049	719.012	718.903	718.768	718.632	718.497	718.405	718.314	718.380	718.263
Splice #2	719.257	719.221	719.111	718.976	718.840	718.705	718.605	718.504	718.597	718.469
Brig. Pier #2	719.258	719.221	719.112	718.976	718.841	718.706	718.601	718.497	718.602	718.497
Splice #3	719.258	719.222	719.112	718.977	718.842	718.706	718.598	718.490	718.606	718.506
Splice #4	719.053	719.017	718.908	718.772	718.637	718.501	718.384	718.268	718.410	718.318
Brig. Pier #3	718.922	718.885	718.776	718.640	718.505	718.370	718.250	718.132	718.281	718.193
Brig. So. Abut.	718.525	718.488	718.379	718.244	718.108	717.973	717.848	717.723	717.893	717.817

Notes: Elevation Top of Beam is Always Top of Beam Flange, does not include Top Cover or Top Flange Splice Plates, if any.
Elevation Top of Beam does not include Dead Load Deflection due to the Weight of the Structural Steel.

FOR INFORMATION ONLY



STRUCTURAL STEEL DETAILS
HARLEM AVENUE OVER
FAI. RT. 80 SEC. 1213-825-HBK
COOK AND WILL COUNTY
STATION 1288+74.95

MODEL: SN016-0325(5)
FILE NAME: c:\pwworking\guillaume\p0105357\00100725-shh-details.dgn

USER NAME	= Fritz, Guillaume	DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-	REVISED	-
CHECKED	-	REVISED	-	REVISED	-
DATE	-	REVISED	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 3: SN 016-0325
IL 43 (HARLEM AVE.) OVER I-80

SCALE: SHEET 10 OF 10 SHEETS STA. 0+00.00 TO STA. 0+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	(104-B) BP 24	VAR	19	14
CONTRACT NO. 62X22				
ILLINOIS FED. AID PROJECT				



FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY <24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

DISTANCES MAY BE SHORTENED DEPENDING
UPON THE PROXIMITY OF ADJACENT RAMPS
OR INTERSECTIONS.

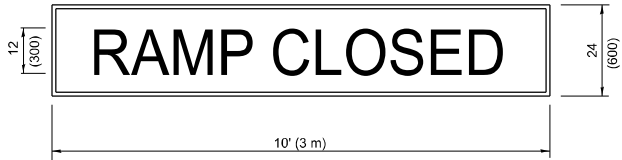


SYMBOLS

- | | |
|---|---|
|  | TYPE II BARRICADE OR DRUM |
|  | TYPE III BARRICADE WITH 2 FLASHING LIGHTS |



RAMP CLOSURE ADVANCE WARNING SIGN



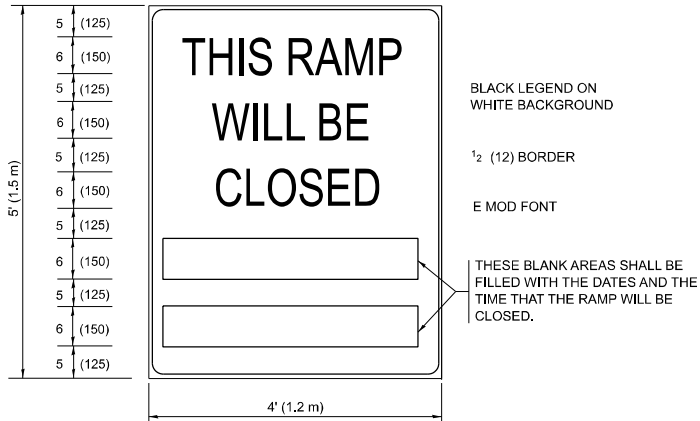
BLACK LEGEND ON ORANGE
BACKGROUND MOUNTED
DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT
GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE
CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

RAMP CLOSURE ADVANCE INFORMATION SIGN



GENERAL NOTES:

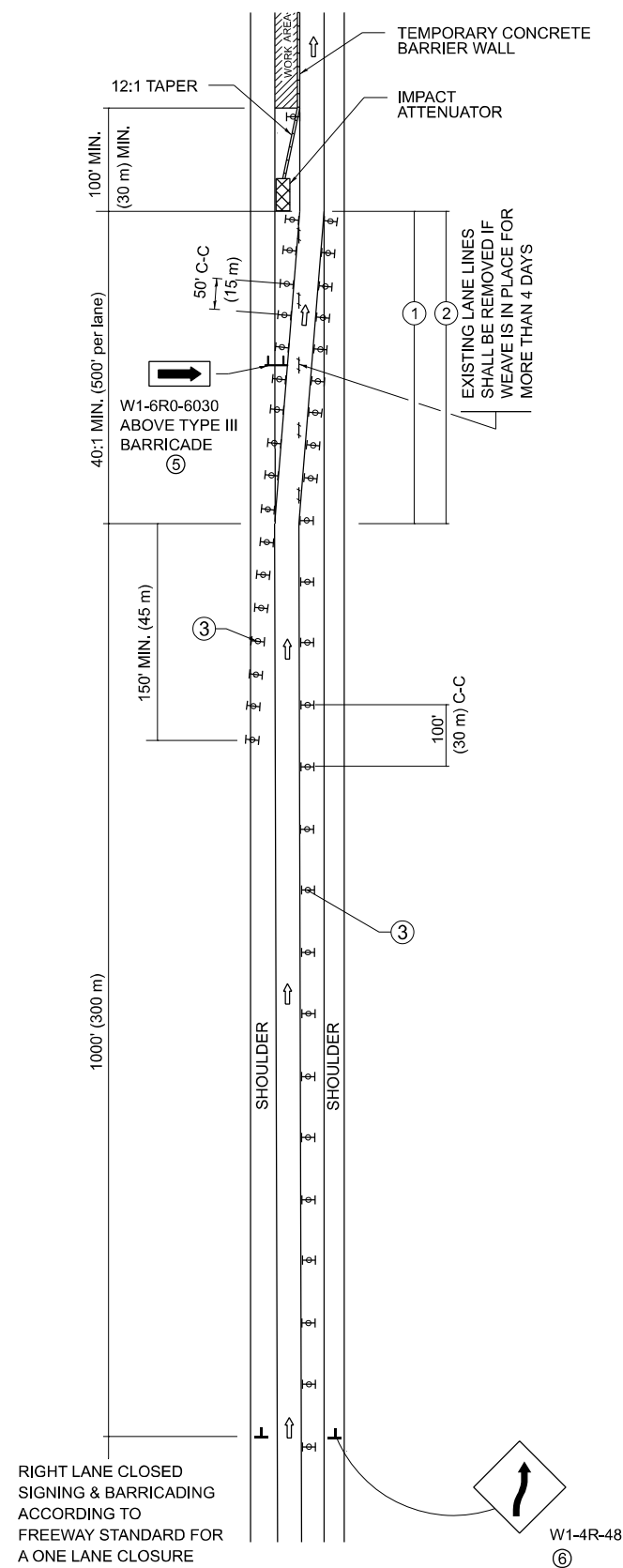
- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

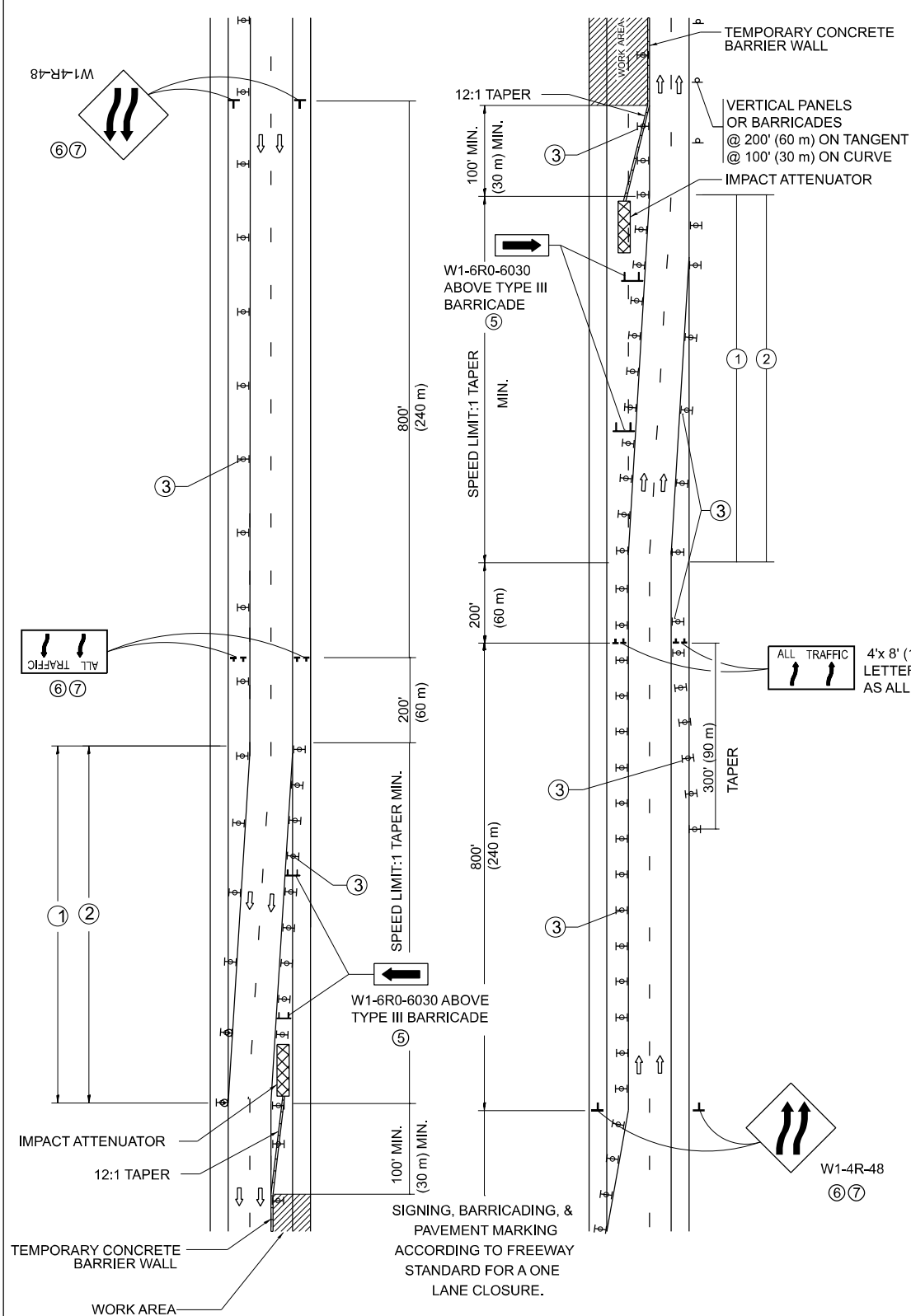
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		DRAWN -	REVISED - M.D._06-13						VAR	(104-B) BP 24	VAR	19	15
		CHECKED -	REVISED - M.D._01-18		TC-08				CONTRACT NO. 62X22				
	PLOT DATE = 2/5/2025	DATE - 02-83	REVISED - D.S._05-24		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.				
					ILLINOIS				FED. AID PROJECT				

MODEL: TC-08 [Sheet]
FILE NAME: c:\pw work\pwidot\quillaume\p\d1053570\ID100725-sht-DistSids.dgn

SINGLE LANE WEAVE



MULTI-LANE WEAVE



- GENERAL NOTES:**

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② 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.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ 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.
- ⑥ 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.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- | | |
|---|--|
|  | DIRECTION OF TRAFFIC |
|  | WORK AREA |
|  | SIGN ON PORTABLE OR PERMANENT SUPPORT |
|  | TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT |
|  | TEMPORARY CONCRETE BARRIER WALL |
|  | IMPACT ATTENUATOR |
-
- | | |
|---|----------|
|  | |
| | W24-1-48 |
|  | |

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN

USER NAME	= Fritz,Guillaume	DESIGNED	= D.W.S.	REVISED	= J.A.F. 02-06
		DRAWN	=	REVISED	= S.P.B. 01-07
		CHECKED	=	REVISED	= S.P.B. 12-09
PLOT DATE	= 2/5/2025	DATE	= 02-87	REVISED	= M.D. 06-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE

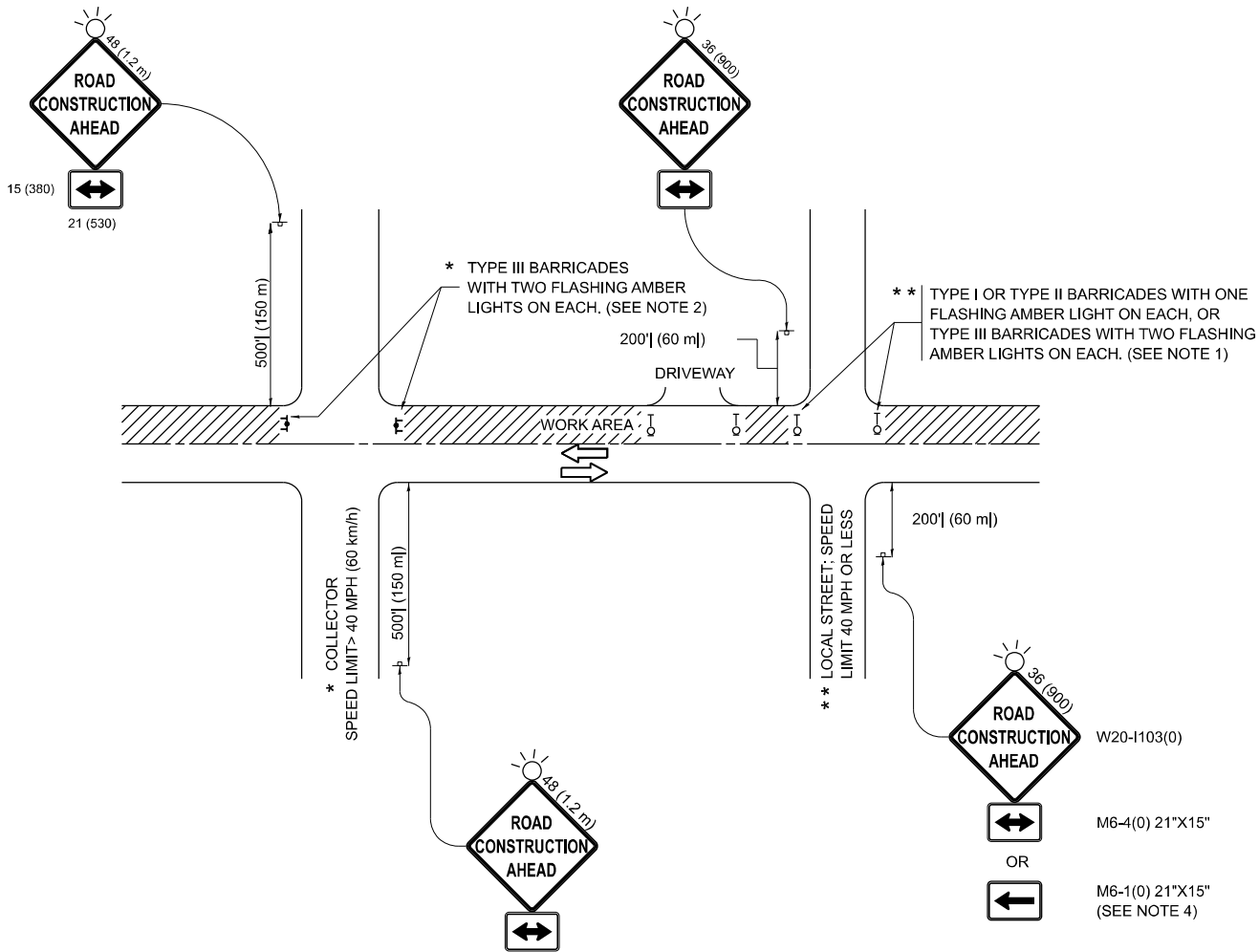
SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	(104-B) BP 24	VAR	19	16
TC-09		CONTRACT NO. 62X22		
ILLINOIS		FED. AID PROJECT		

(104-B) BP 24

MODEL: TC-09 [Sheet]
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MODEL: TC-11 [Sheet]
FILE NAME: c:\p\work\pwt\pwt\guillaume\p\105357\DD100725-shh-DlsStd.dgn



NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters)
unless otherwise shown.

USER NAME	= Fritz.Guillaume	DESIGNED	-	L.H.A.	REVISED	-	T. RAMMACHER 01-06-00
		DRAWN	-		REVISED	-	A. SCHUETZE 07-01-13
		CHECKED	-		REVISED	-	A. SCHUETZE 09-15-06
PLOT DATE	= 2/5/2025	DATE	-	06-89	REVISED	-	D. SENDERAK 05-03-24

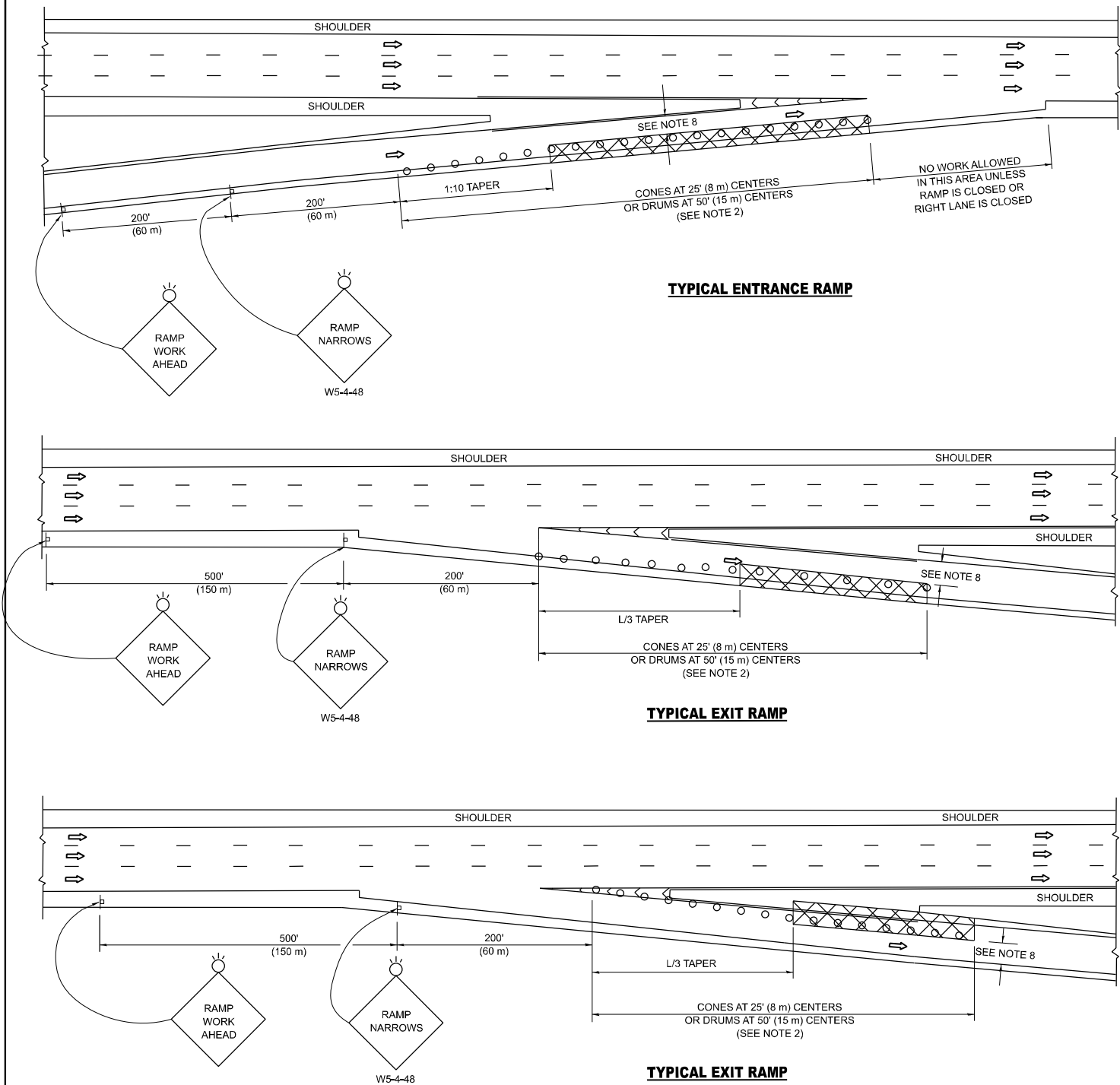
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	(104-B) BP 24	VAR	19	17
TC-10		CONTRACT NO. 62X22		
		ILLINOIS FED. AID PROJECT		

PARTIAL RAMP CLOSURE DETAILS



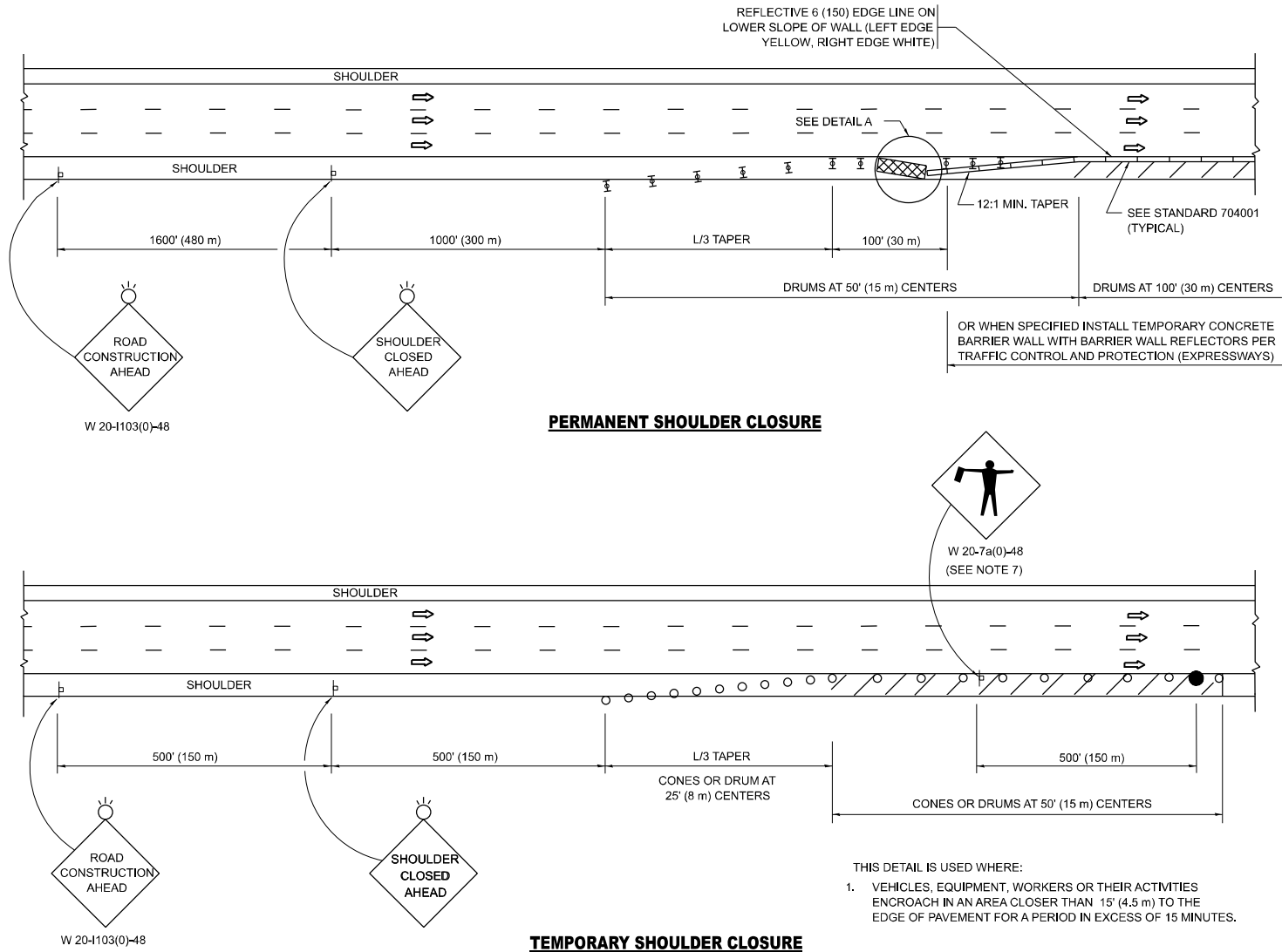
SYMBOLS

- 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:

- 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)
- 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.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- 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

TEMPORARY SHOULDER CLOSURE

- THIS DETAIL IS USED WHERE:
- 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)

- 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.
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
- 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 ACTIVITY 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.

- 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.
- TEMPORARY SHOULDER AND NON-SYSTEM INTERCHANGE PARTIAL RAMP CLOSURES ARE ALLOWED WEEKDAYS BETWEEN 9:00 A.M. AND 3:00 P.M. AND BETWEEN 7:00 P.M. AND 5:00 A.M. OR AS APPROVED BY THE EXPRESSWAY TRAFFIC OPERATIONS ENGINEER. PERMANENT SHOULDER AND PARTIAL RAMP CLOSURES WILL ONLY BE PERMITTED IF CALLED FOR IN THE PLANS OR AS APPROVED BY THE EXPRESSWAY OPERATIONS ENGINEER.

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	(104-B) BP 24	VAR	19	18
TC-17		CONTRACT NO. 62X22		
ILLINOIS		FED. AID PROJECT		

(104-B) BP 24

