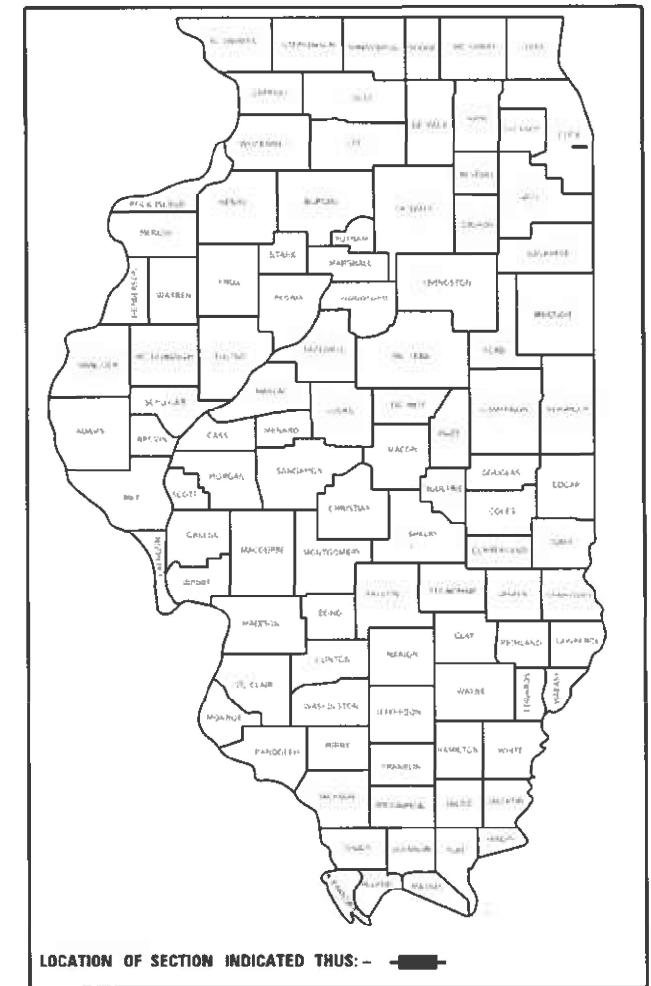


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| F.A.I. NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------|-------------|----------|--------------------|-----------|
| 00/04 | 2020-242 BP | COOK | 25 | 1 |
| | | ILLINOIS | CONTRACT NO. 62N12 | |

D-91-049-21



FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT IS LOCATED
IN THE CITY OF CHICAGO

PROPOSED
HIGHWAY PLANS

FAI ROUTE 90 /94: I-90/94
AT CTA STRUCTURES OVER I-90/94 S. OF 55th ST
SECTION 2020-242-BP
BRIDGE PAINTING
COOK COUNTY

C-91-049-21

TRAFFIC DATA

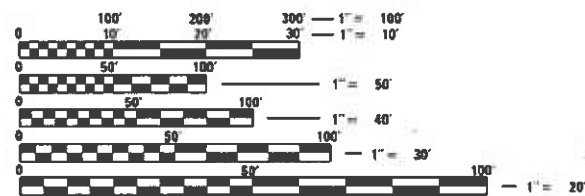
I-90/94 (DAN RYAN EXPW)

2019 ADT = 321700

POSTED SPEED IMIT=55 MPH

R 14 E

SN 016-0141
S. OF 55th ST
OVER I-90/94



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.

C.U.A.N.
CHICAGO UTILITY ALERT NETWORK
(312) 744-7000

PROJECT MANAGER: MIDY, J. ALAIN (847) 221-3056

CONTRACT NO. 62N12

LAKE TOWNSHIP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED January 25, 2021

John P. Ryan REGIONAL ENGINEER
January 29, 2021

Scott A. Etkin ENGINEER OF DESIGN AND ENVIRONMENT
January 29, 2021

James J. Quinn DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

GENERAL NOTES

| SHEET NO | DESCRIPTION |
|----------|---|
| 1. | TITLE SHEET |
| 2. | INDEX OF SHEETS AND GENERAL NOTES |
| 3. | SUMMARY OF QUANTITIES |
| 4-18. | BRIDGE DETAILS SN 016-0141 |
| 19. | ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08) |
| 20. | TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE AND MULTI-LANE WEAVE (TC-09) |
| 21. | TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10) |
| 22. | TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14) |
| 23. | TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17) |
| 24. | SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS (TC-18) |
| 25. | ARTERIAL ROAD INFORMATION SIGN (TC-22) |

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C. U. A. N." AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE CITY OF CHICAGO AND THE CHICAGO TRANSIT AUTHORITY (CTA).

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4155 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE BRIDGE INSPECTORS.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

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.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHTTIME OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE OUTMOST PRECAUTIONS PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJACENT RESIDENTIAL AREAS.

THE CONTRACTOR SHALL REQUEST AND GAIN THE APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT www.idotils.com TWENTY FOUR (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.

THE CONTRACTOR SHALL CLOSE LANES ON THE EXPRESSWAY IN ACCORDANCE WITH THE "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC" CONTRACT SPECIAL PROVISIONS.

STATE STANDARDS

| | |
|-----------|--|
| 701106-02 | OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY |
| 701400-10 | APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY |
| 701401-12 | LANE CLOSURE, FREEWAY/EXPRESSWAY |
| 701411-09 | LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH |
| 701428-01 | TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY / EXPRESSWAY |
| 701446-11 | TWO LANE CLOSURE, FREEWAY / EXPRESSWAY |
| 701601-09 | URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NON TRAVERSABLE MEDIAN |
| 701701-10 | URBAN LANE CLOSURE, MULTILANE, INTERSECTION |
| 701801-06 | SIDEWALK, CORNER OR CROSSWALK CLOSURE |
| 701901-08 | TRAFFIC CONTROL DEVICES |

GENERAL PAINT NOTES

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES".

ALL ITEMS (SUCH AS, BUT NOT LIMITED TO: CONDUITS, BRACKETS AND DECK DRAINS) ATTACHED TO OUTSIDE OF THE FASCIA BEAMS SHOULD BE CLEANED AND PAINTED.

ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. FOR PAINT LIMITS OF BENTS AND SPANS, SEE CIRCLED LIMITS ON SHEET 4 OF 25.

THE ALUMINUM EPOXY MASTIC / ACRYLIC PAINT SYSTEM SHALL BE USED FOR PAINTING OF THE EXISTING STRUCTURAL STEEL. 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.

A MINIMUM OF 2 AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS AT THESE SITES. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES".

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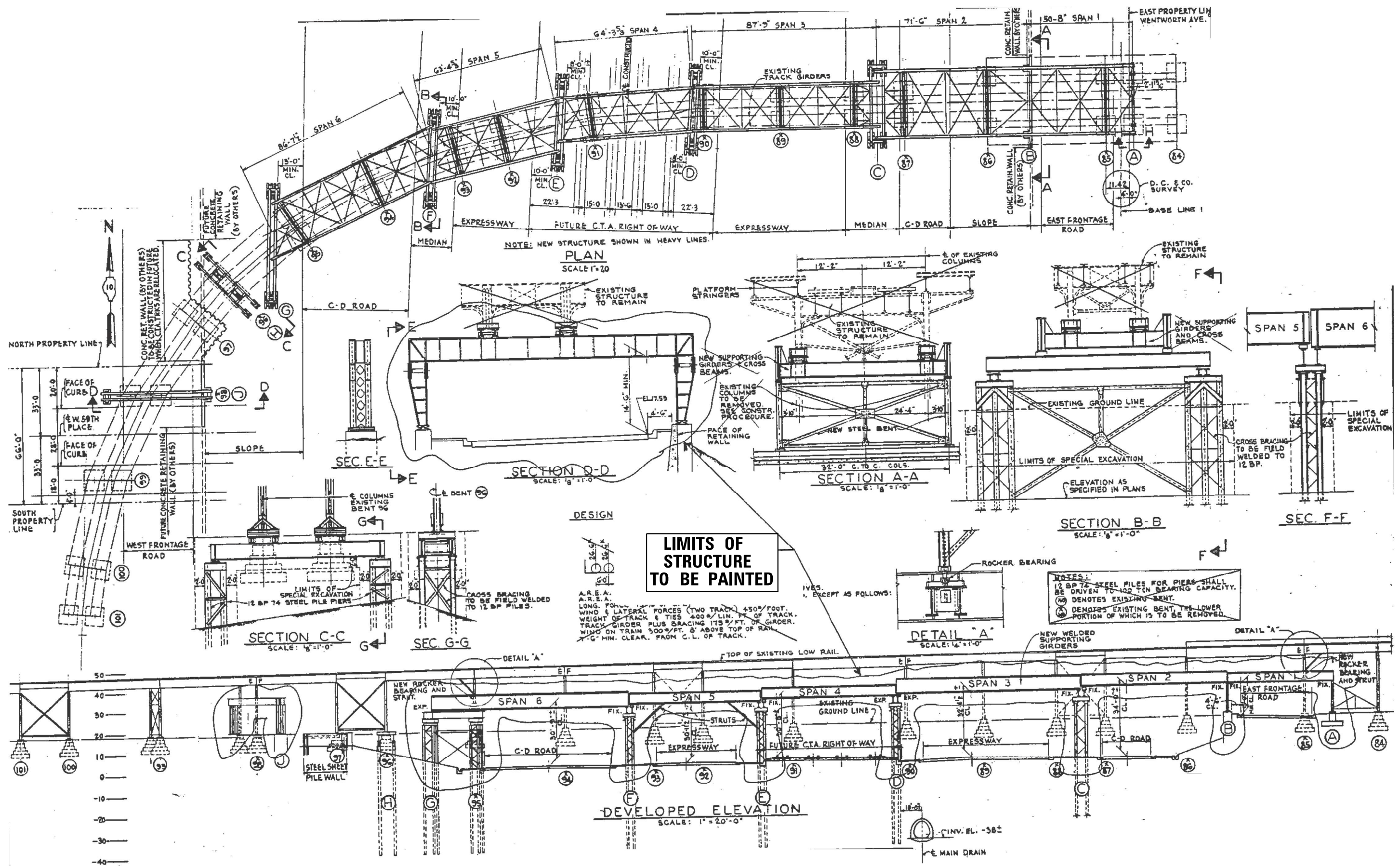
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STATE STANDARDS, GENERAL NOTES
I-90/94 AT CTA STRUCTURES OVER I-90/94 S. OF 55th ST**

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------|--------|--------------|-----------|
| 90/94 | 2020-242-BP | COOK | 25 | 2 |
| CONTRACT NO. 62N12 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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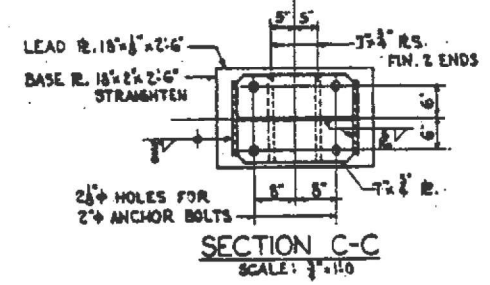
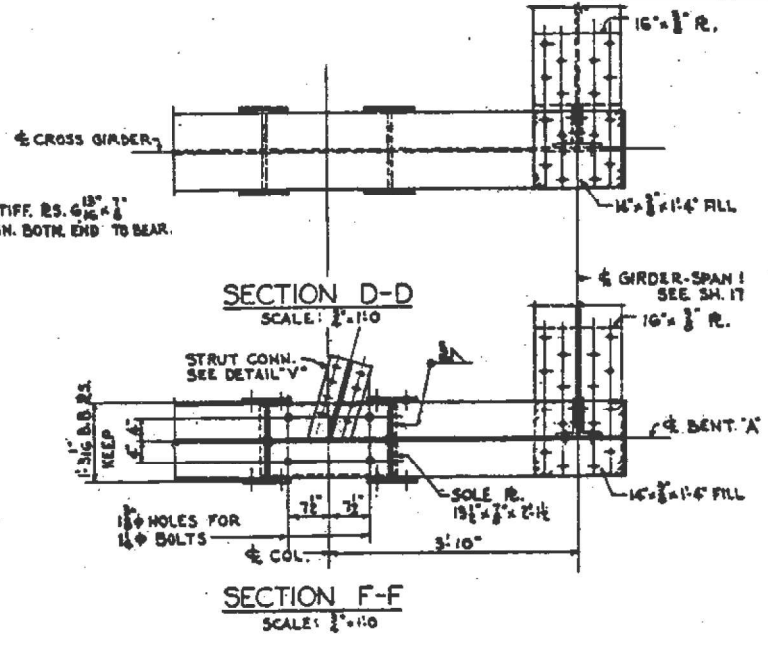
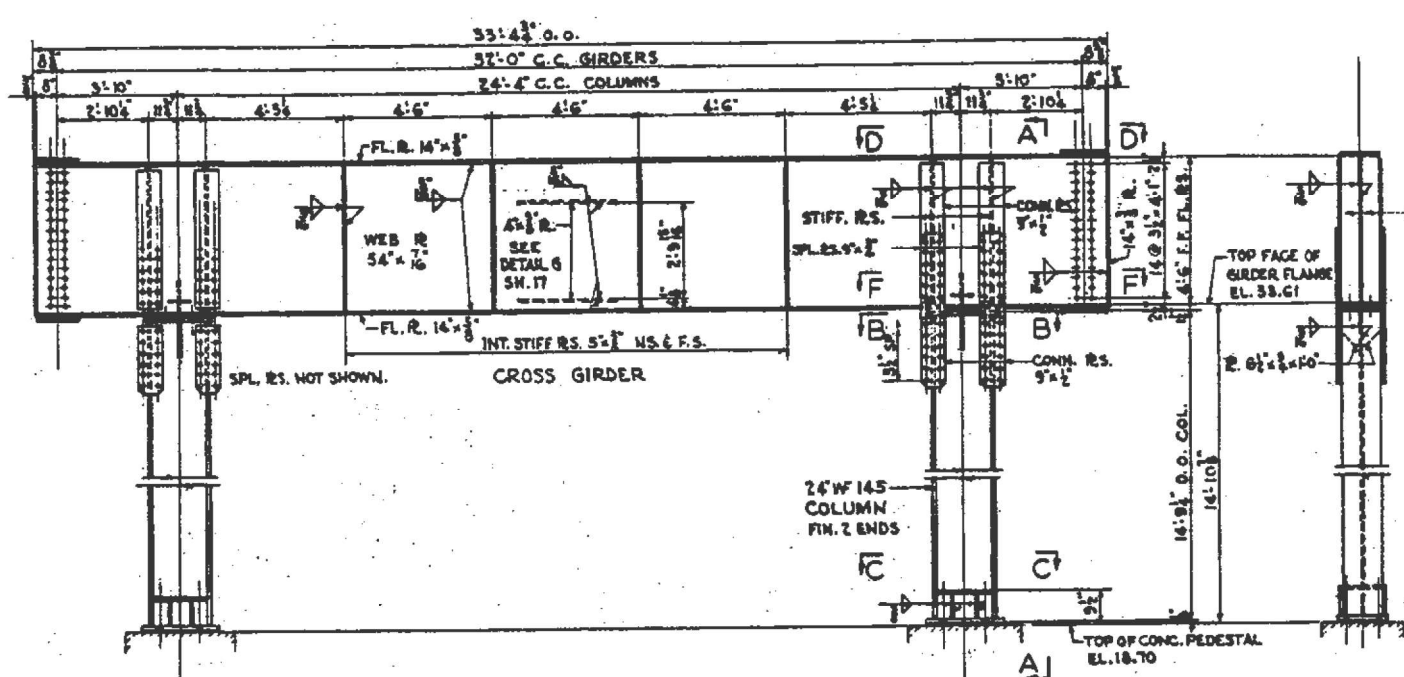
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

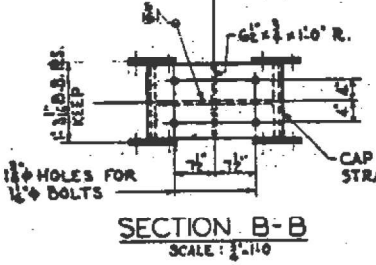
**GENERAL PLAN, EXISTING STRUCTURAL DETAILS.
CTA STRUCTURES OVER I-9094 S. OF 55TH ST**

SCALE: SHEET OF SHEETS STA. TO STA.

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|---------------------------|---------------------|-------------|-----------------|-------------|
| F.A.I. RTE. 90/94 | SECTION 2020-242-BP | COUNTY COOK | TOTAL SHEETS 25 | SHEET NO. 4 |
| CONTRACT NO. 62N12 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

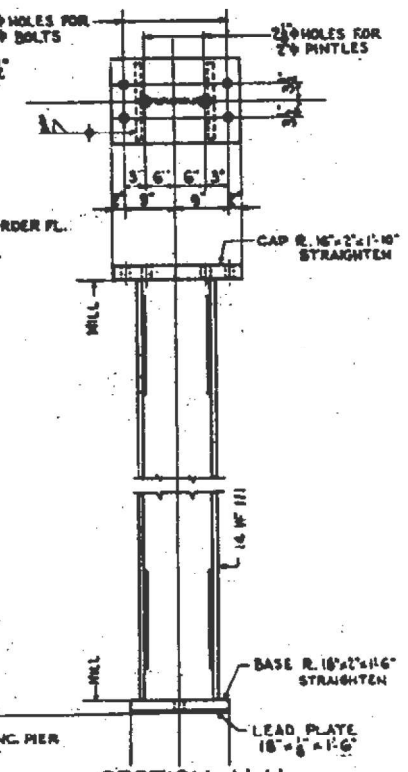


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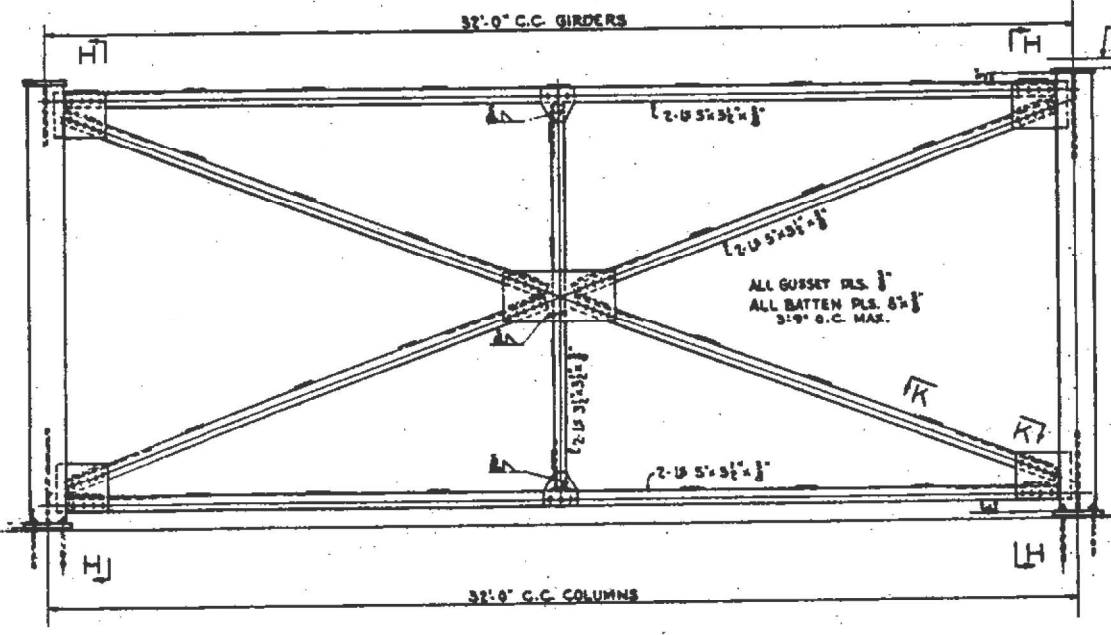


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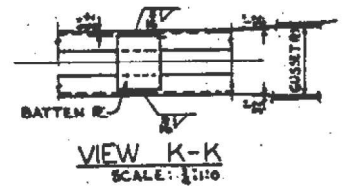
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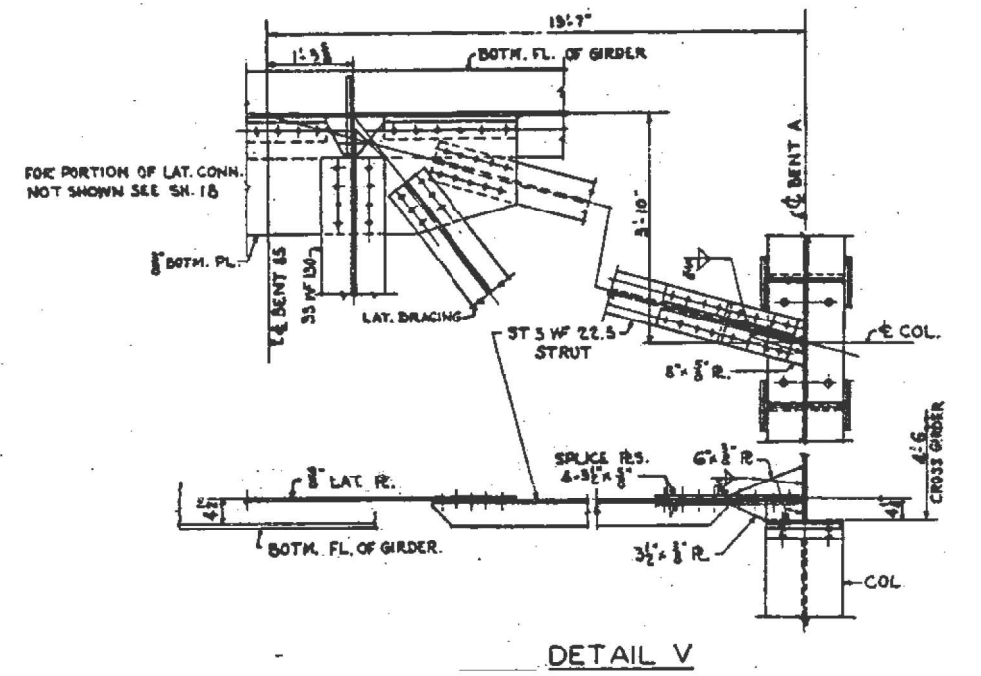
SECTION H-H
SCALE: 1/2" = 1'-0"



BENT 'B' ELEVATION
SCALE: 1/2" = 1'-0"



VIEW K-K
SCALE: 1/2" = 1'-0"



DETAIL V

FOR INFORMATION ONLY

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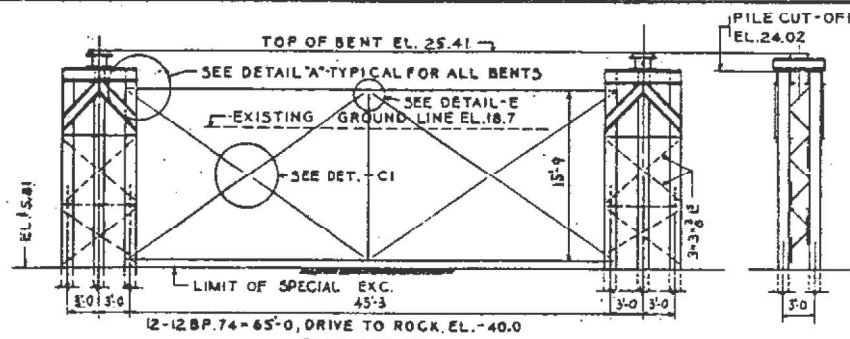
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| PLOT DATE = 11/30/2020 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

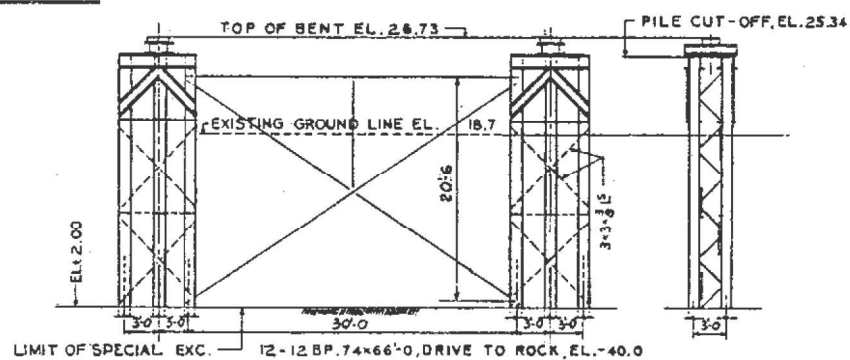
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CTA STRUCTURES OVER I-90/94 S. OF 55th ST

SCALE: SHEET OF SHEETS STA. TO STA.

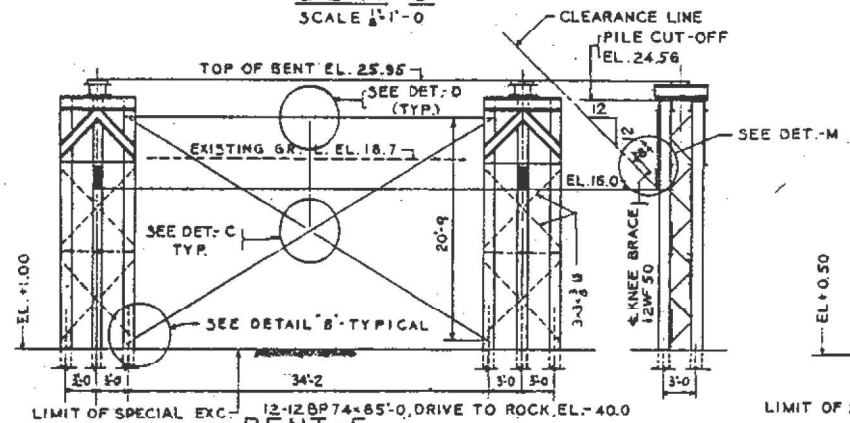
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| CONTRACT NO. 62N12 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



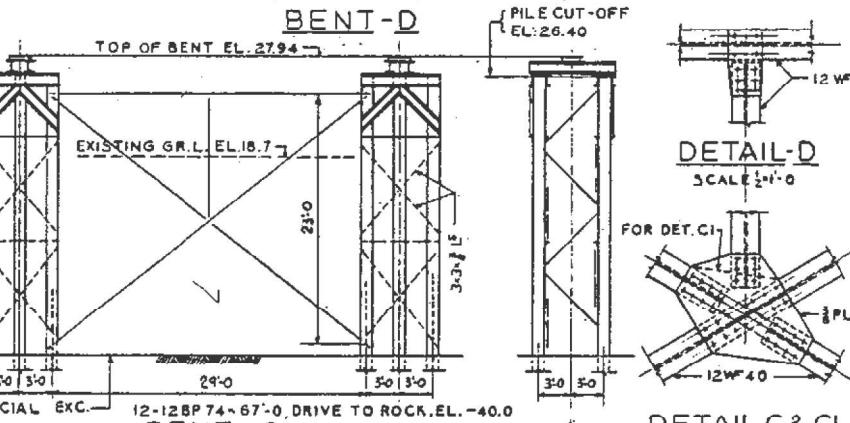
BENT-G
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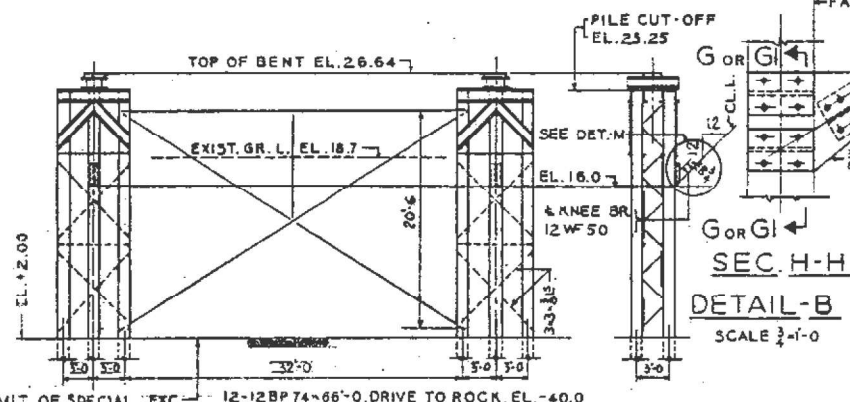
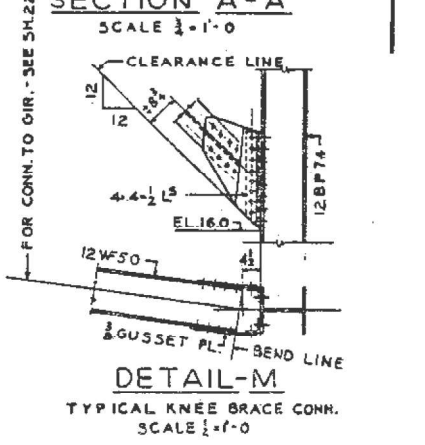
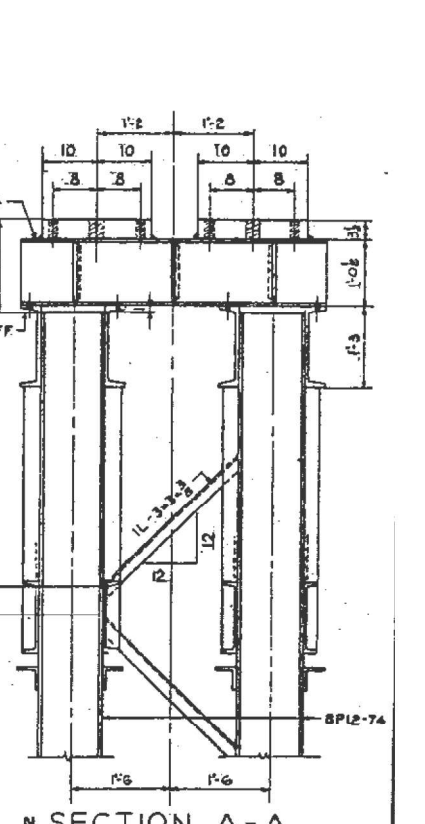
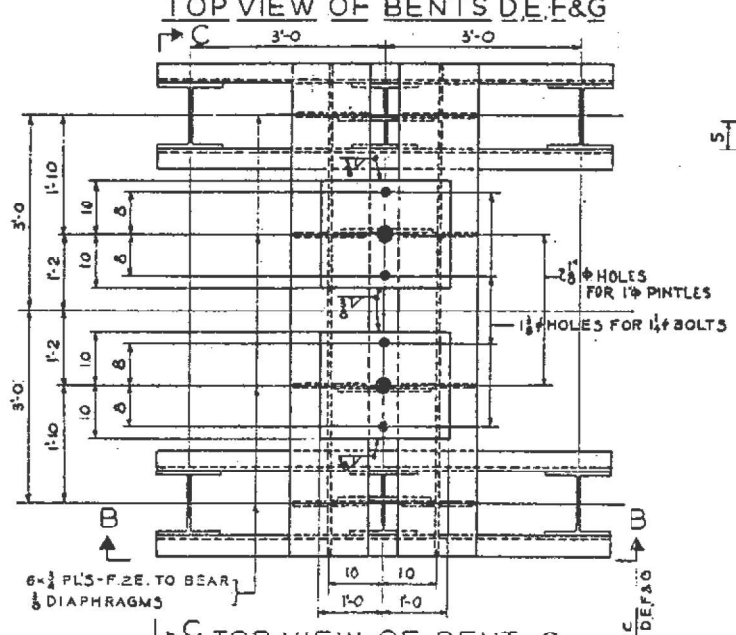
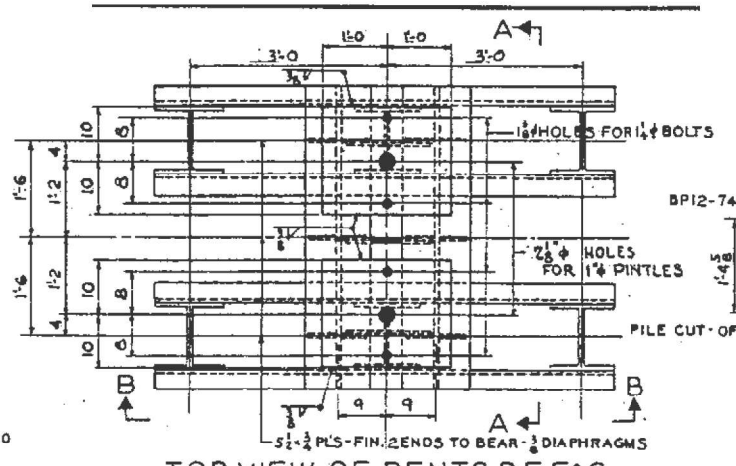
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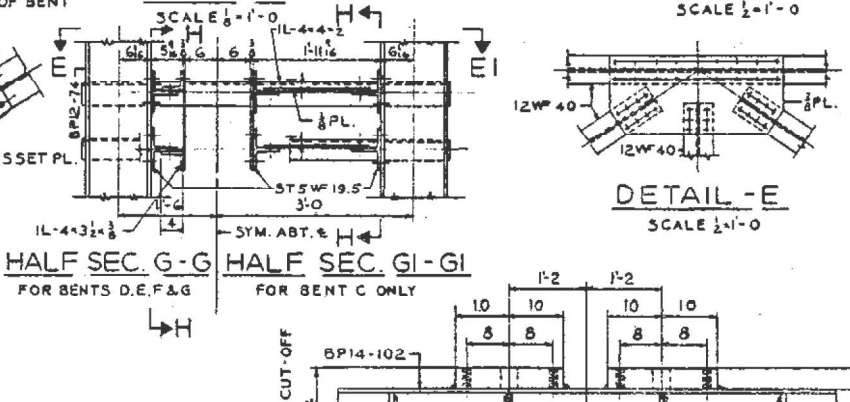
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BENT-C

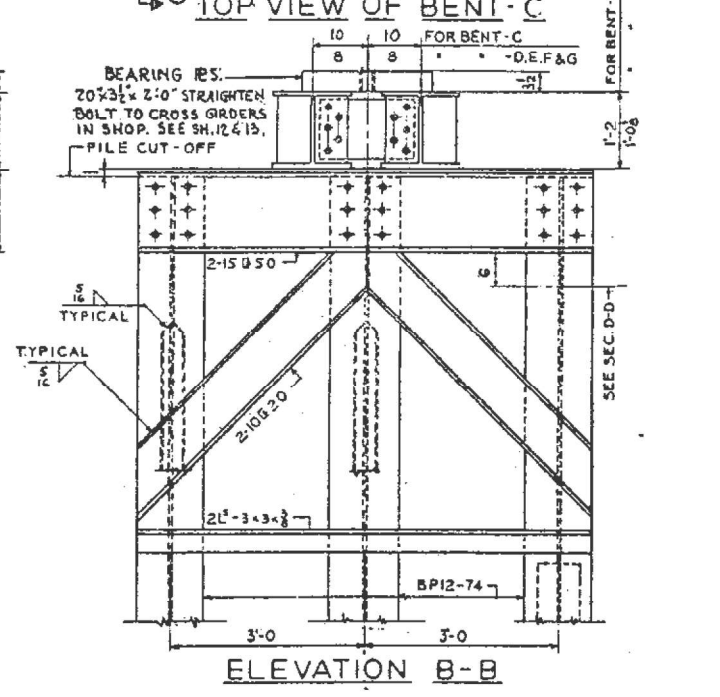
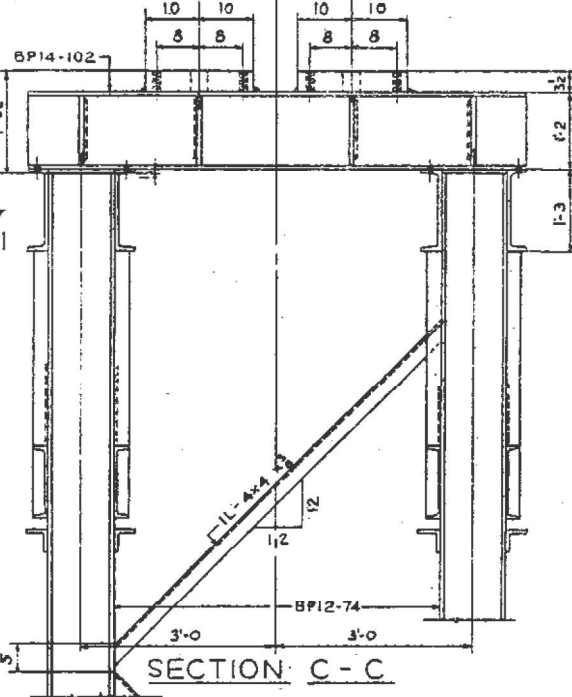
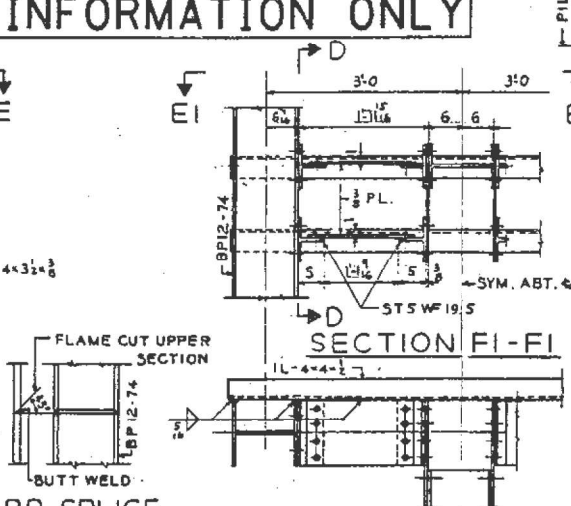
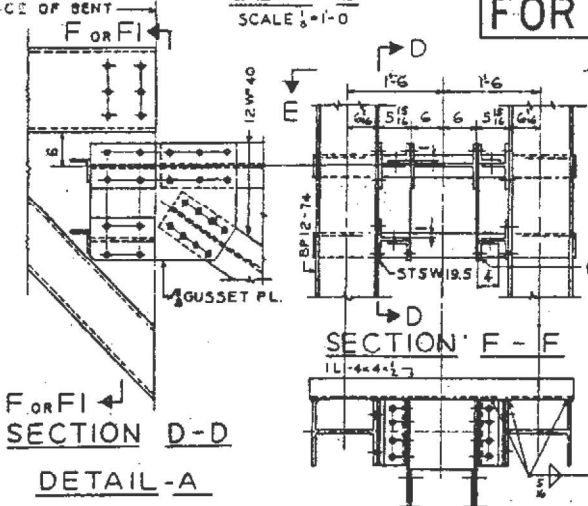


BENT-E



BENT-C

FOR INFORMATION ONLY



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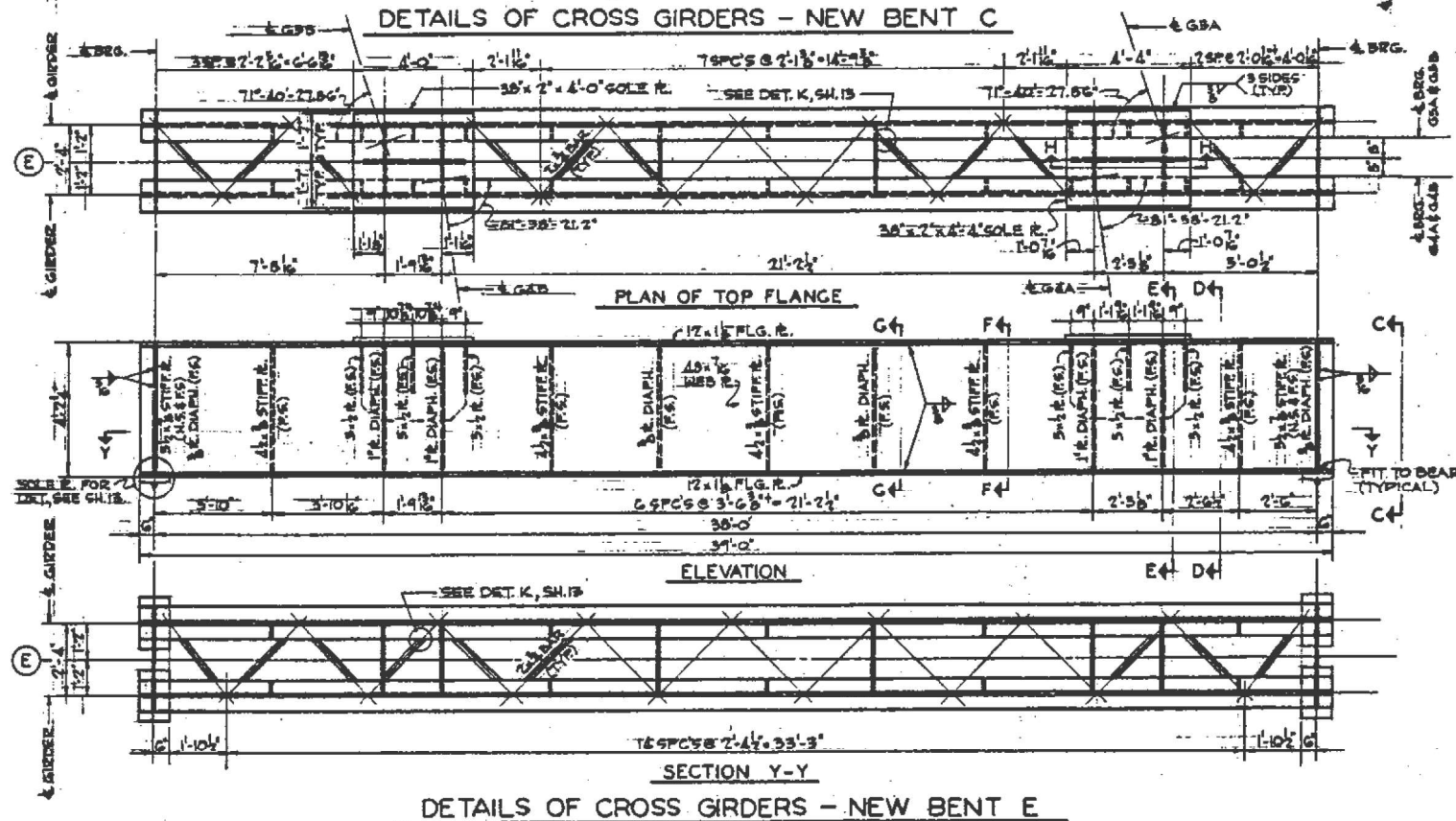
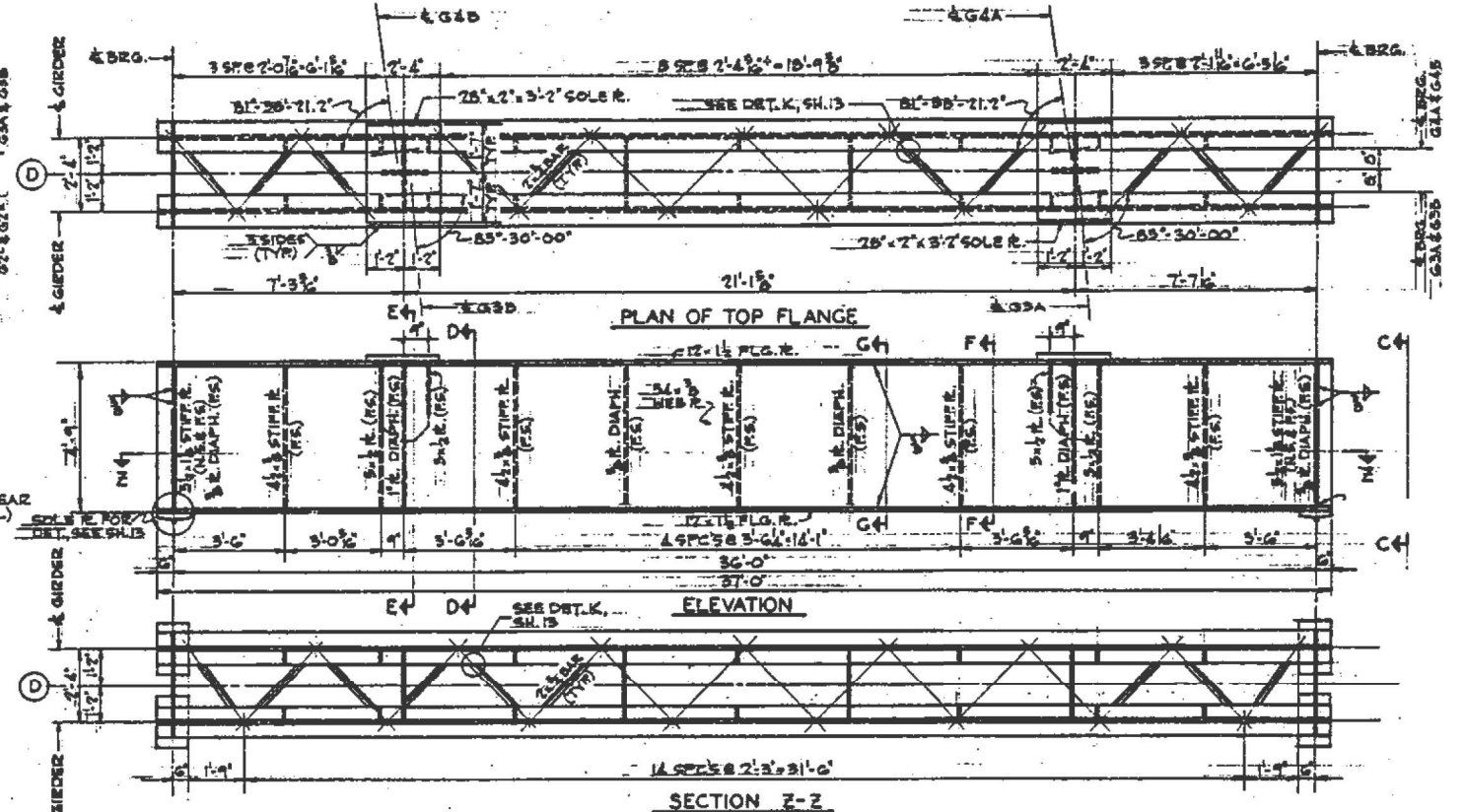
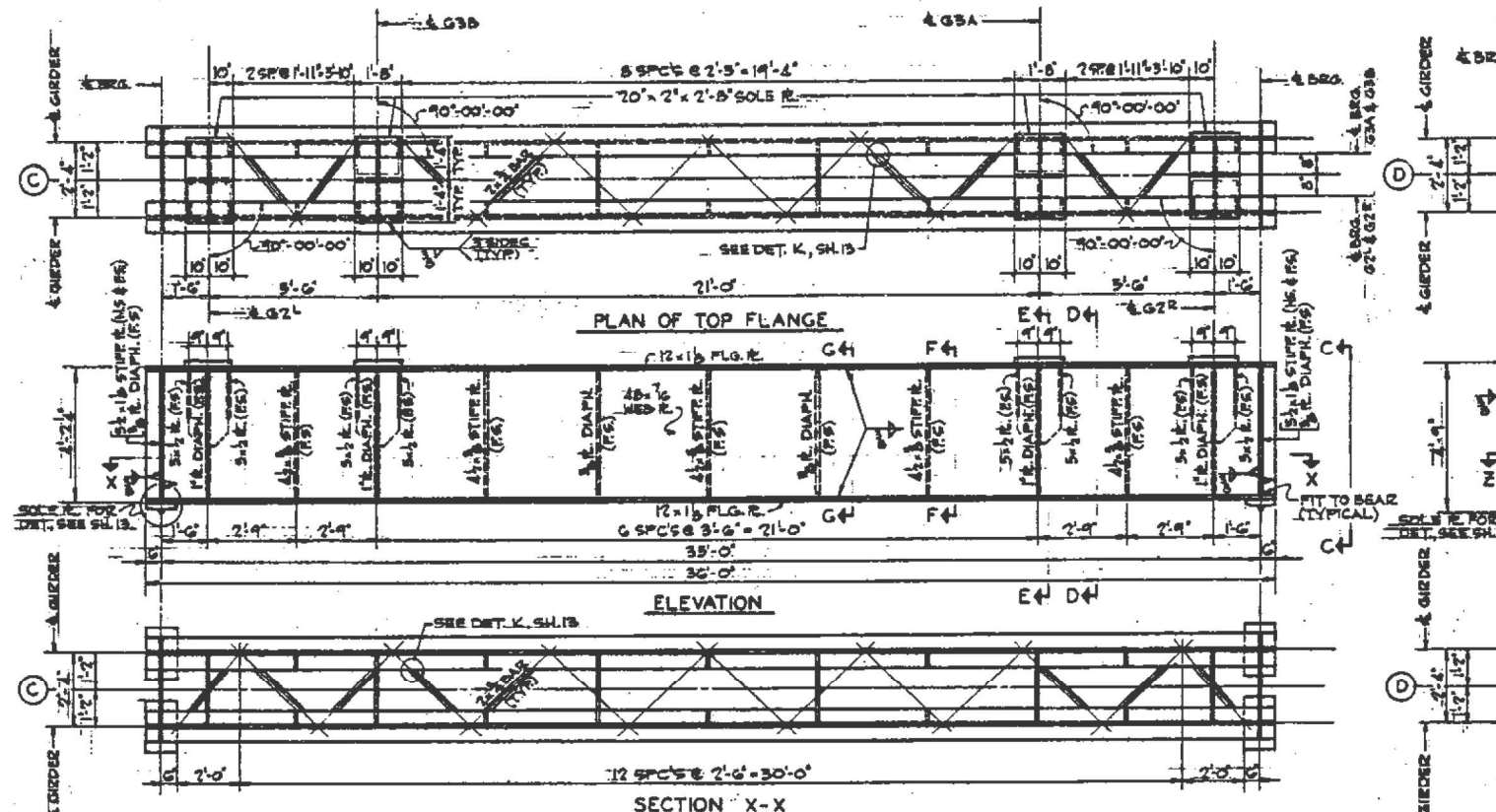
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 DATE: 11/30/2020

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| DRAWN - | REVISED - | |
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| PLOT DATE = 11/30/2020 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL DETAILS. STEEL PILE BENTS C, D, E, F, G.
CTA STRUCTURES OVER I-9094 S. OF 55th ST

| | | | | |
|-------------------------------------|---------------------|---------------------------|-----------------|-------------|
| F.A.I. RTE. 90/94 | SECTION 2020-242-BP | COUNTY COOK | TOTAL SHEETS 25 | SHEET NO. 6 |
| SCALE: SHEET OF SHEETS STA. TO STA. | | CONTRACT NO. 62N12 | | |
| | | ILLINOIS FED. AID PROJECT | | |



DETAILS OF CROSS GIRDERS - NEW BENT D

DETAILS OF CROSS GIRDERS - NEW BENT E

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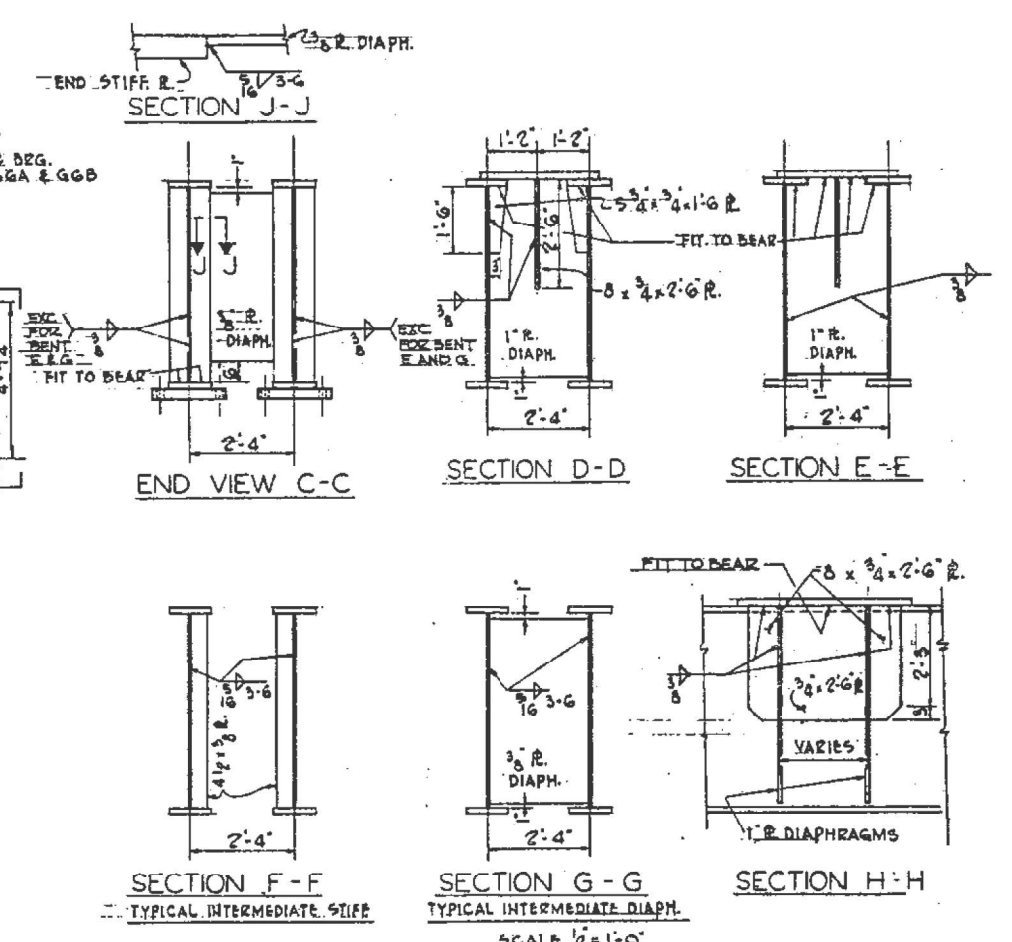
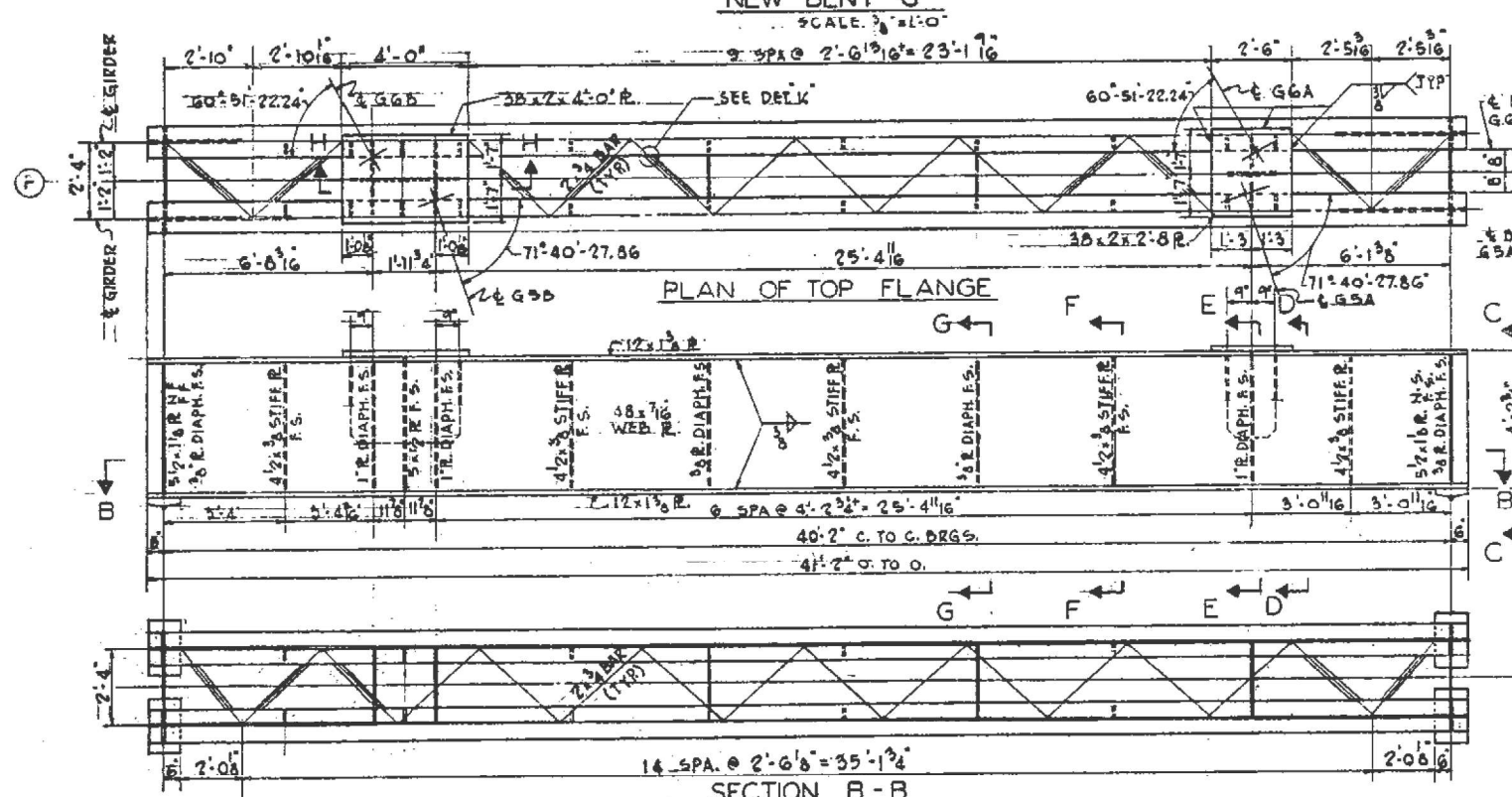
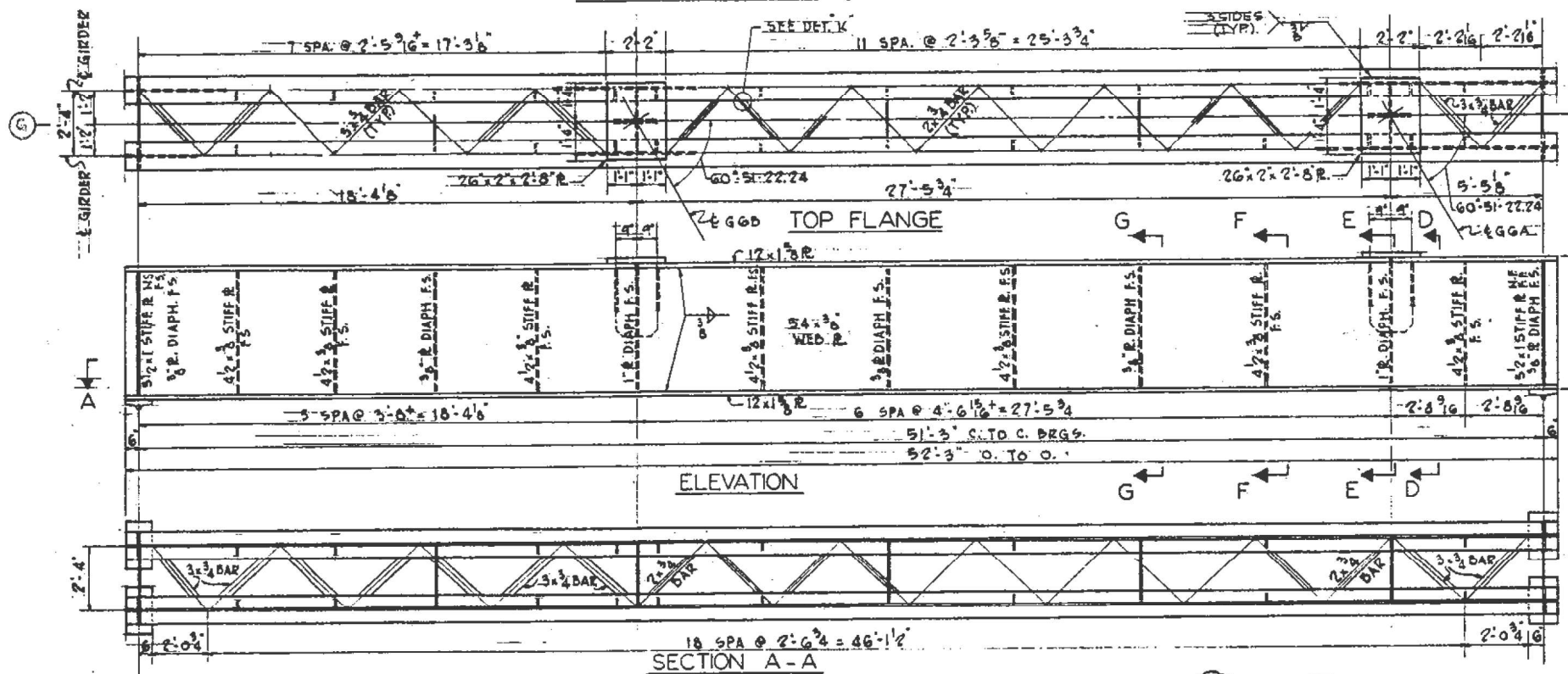
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| PLOT DATE = 11/30/2020 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL DETAILS. CROSS GIRDERS FOR BENTS C, D, E.
CTA STRUCTURES OVER I-90/94 S. OF 55th ST

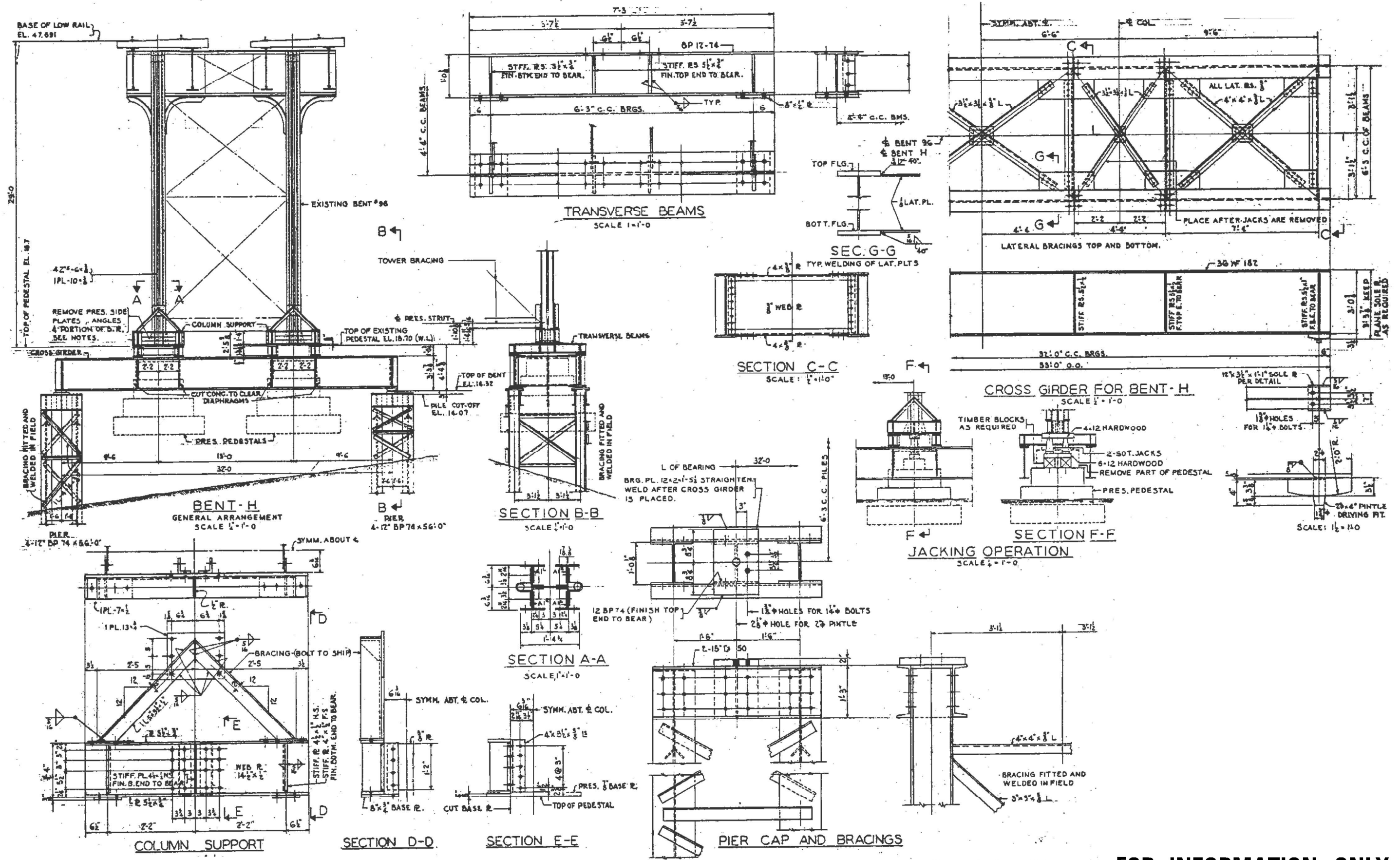
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| | | | CONTRACT NO. 62N12 | |
| | | ILLINOIS FED. AID PROJECT | | |



FOR INFORMATION ONLY

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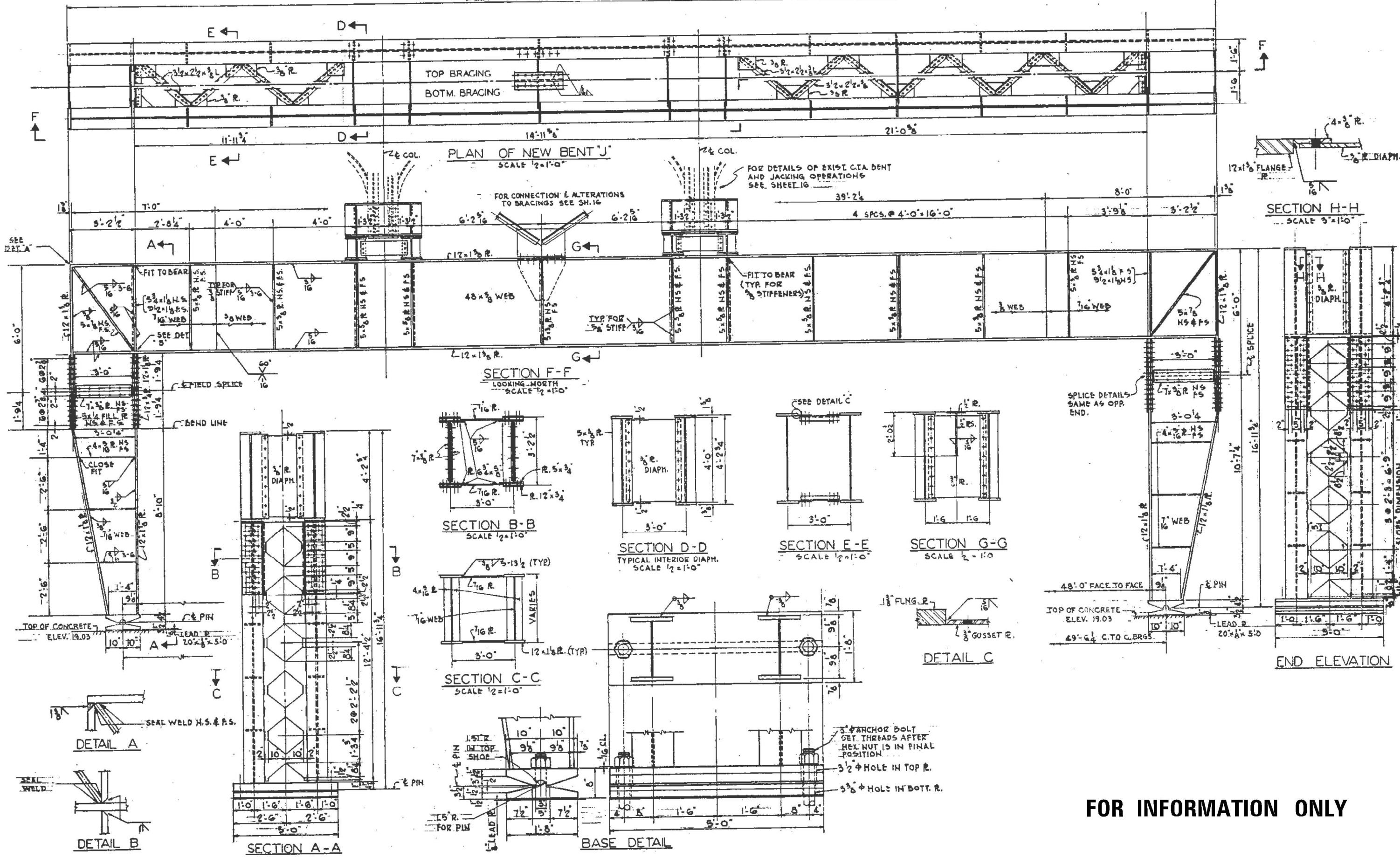
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| PLOT DATE = 11/30/2020 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | |
|---|------------------------------|
| EXISTING STRUCTURAL DETAILS, BENT H. | |
| CTA STRUCTURES OVER I-90/94 S. OF 55th ST | |
| SCALE: | SHEET OF SHEETS STA. TO STA. |

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|---------------------------|-------------|--------|--------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90/94 | 2020-242-BP | COOK | 25 | 9 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62N12 | |

54'-5" O. TO O.



FOR INFORMATION ONLY

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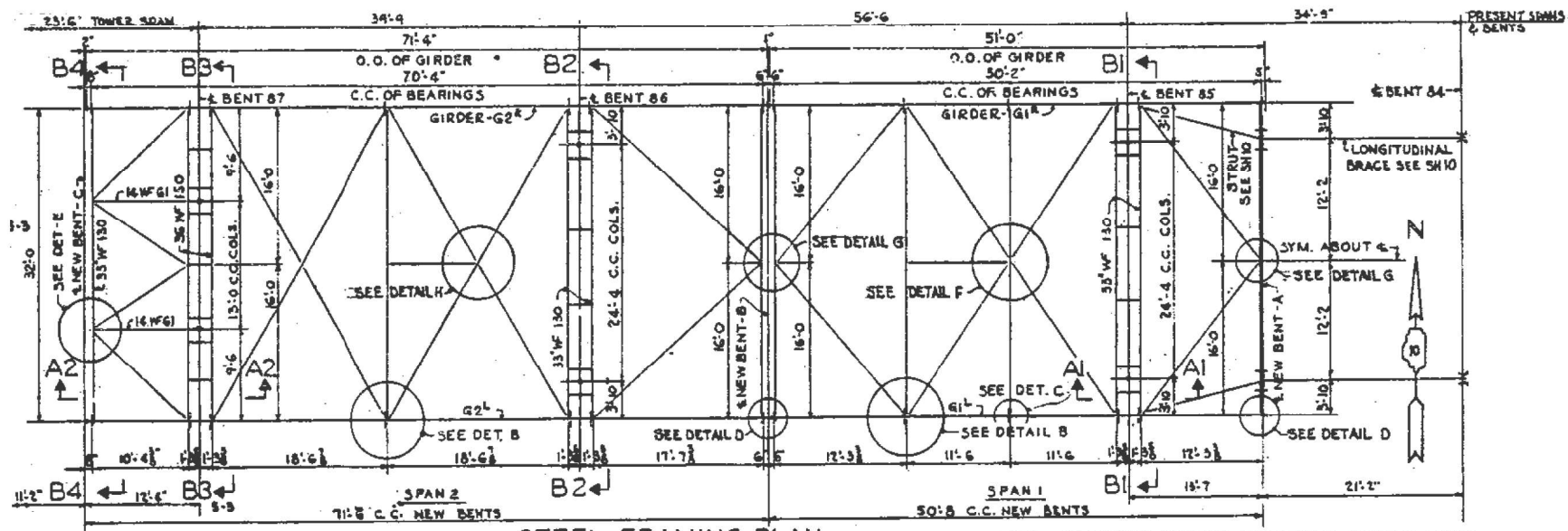
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL DETAILS, BENT J.
CTA STRUCTURES OVER I-90/94 S. OF 55th ST

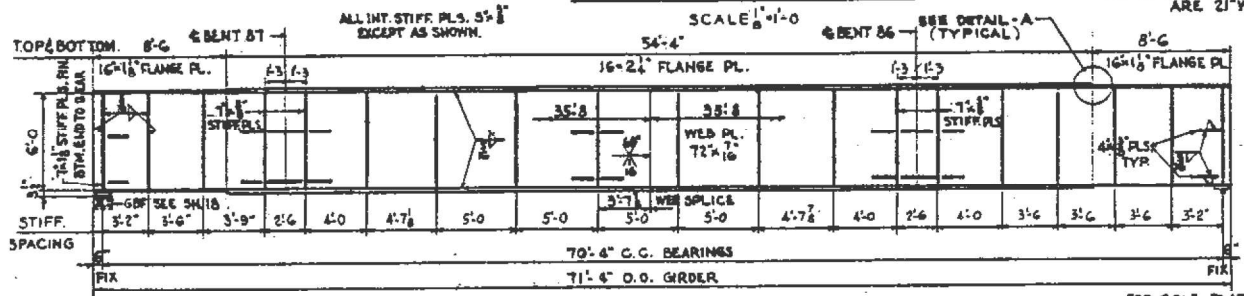
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| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62N12 | |

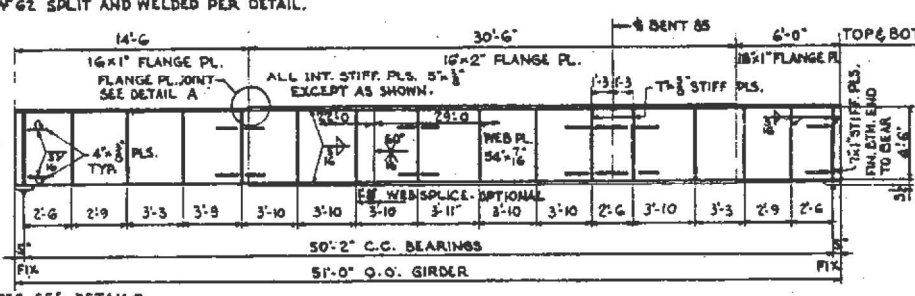


STEEL FRAMING PLAN

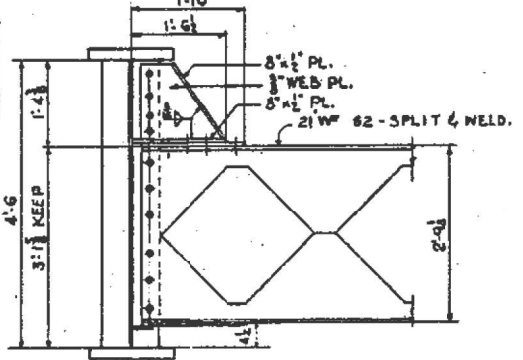
NOTE: ALL LATERAL BRACINGS AND STRUTS, EXCEPT AS SHOWN, ARE 21"WF62 SPLIT AND WELDED PER DETAIL.



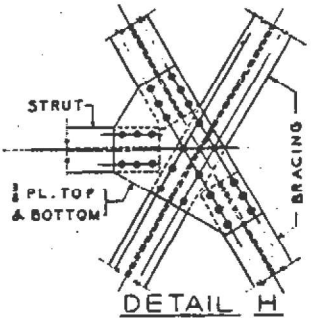
INSIDE ELEVATION GIRDER G2R



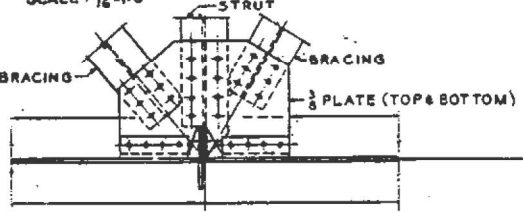
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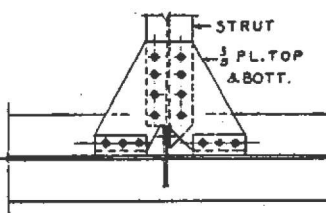
STRUT-BRACKET FOR SPAN 1



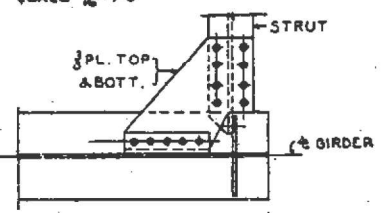
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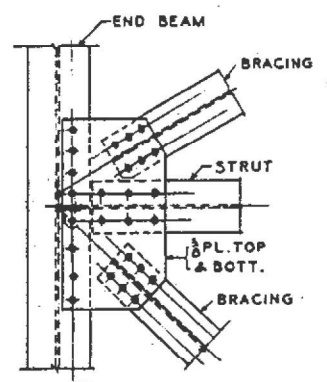
DETAIL B



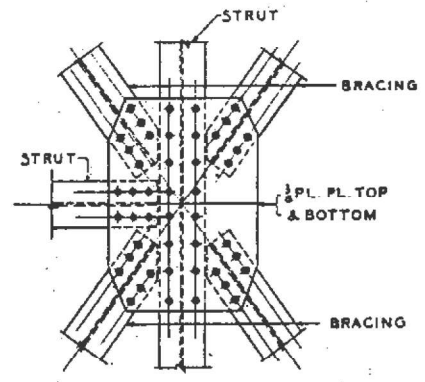
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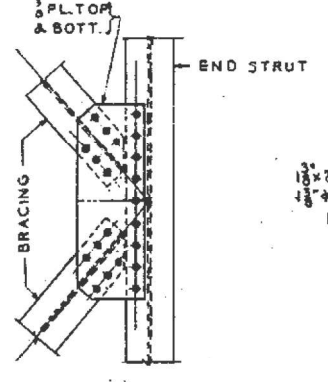
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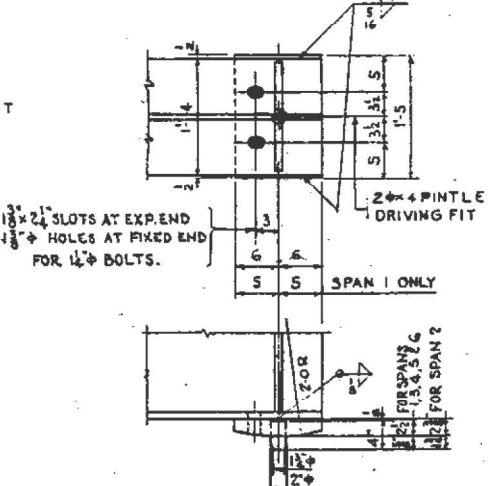
DETAIL E



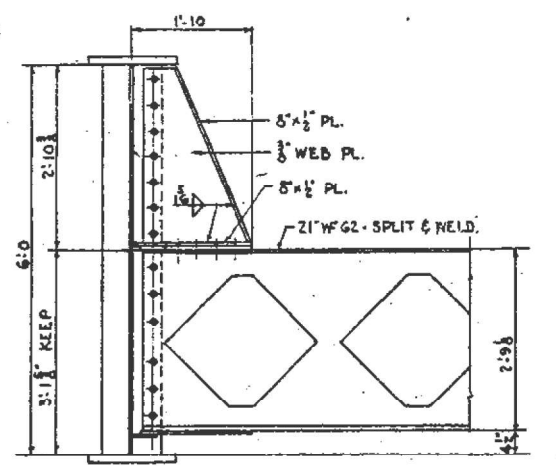
DETAIL F



DETAIL G



GIRDER SOLE PLATE



STRUT-BRACKET FOR SPAN 2

FOR INFORMATION ONLY

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 PLOT DATE = 11/30/2020

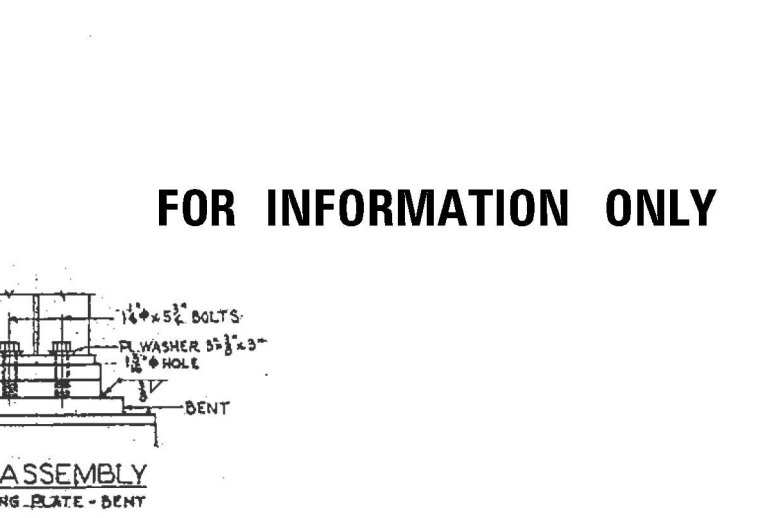
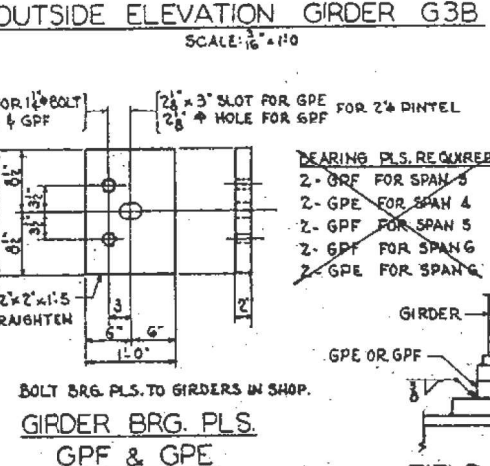
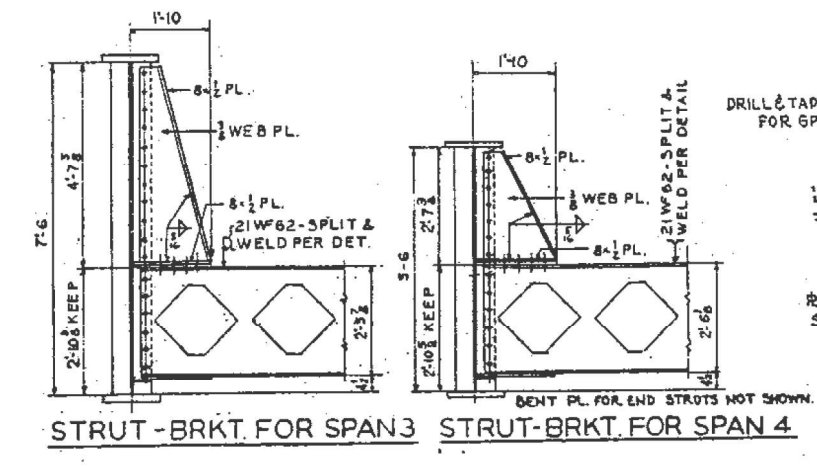
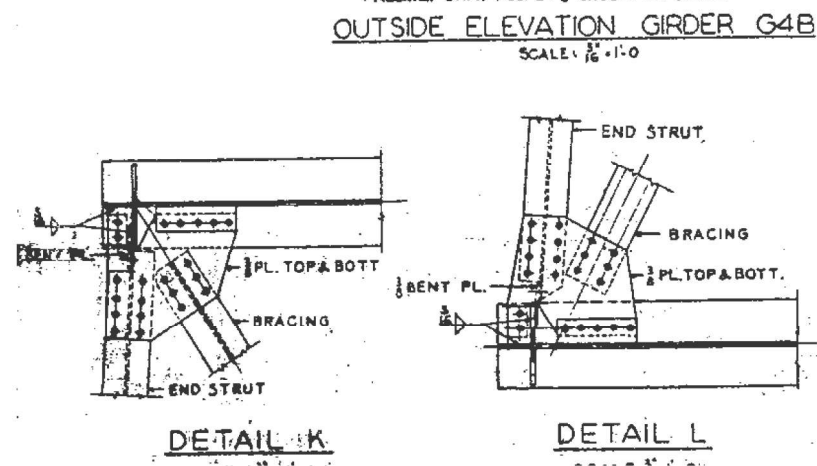
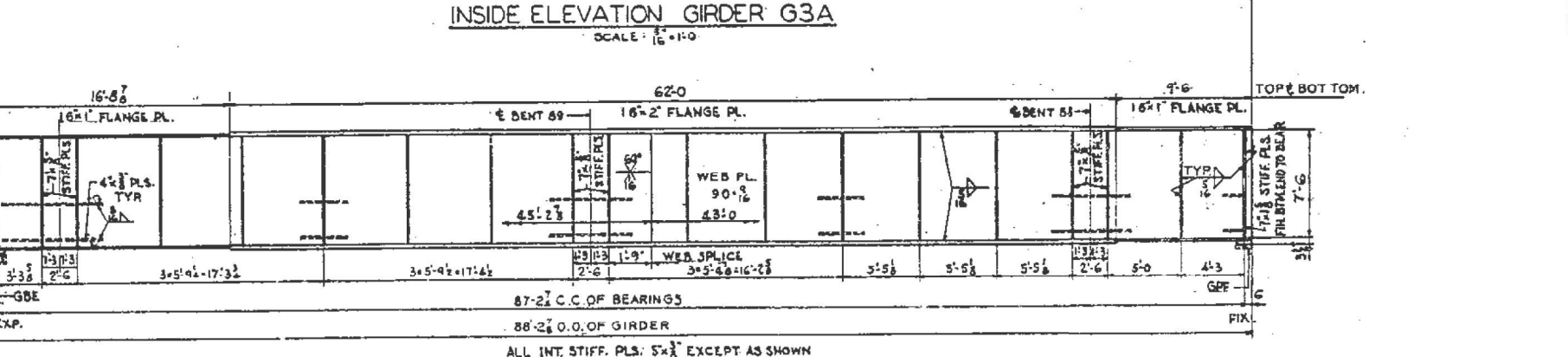
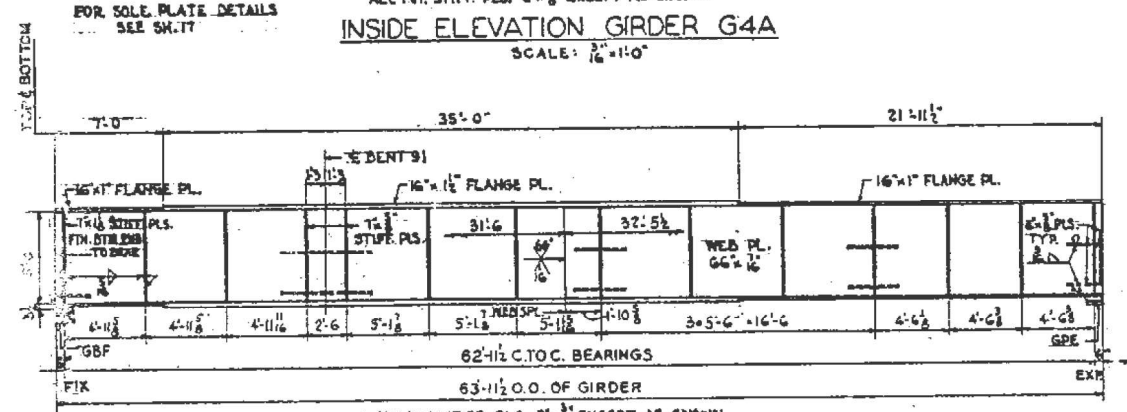
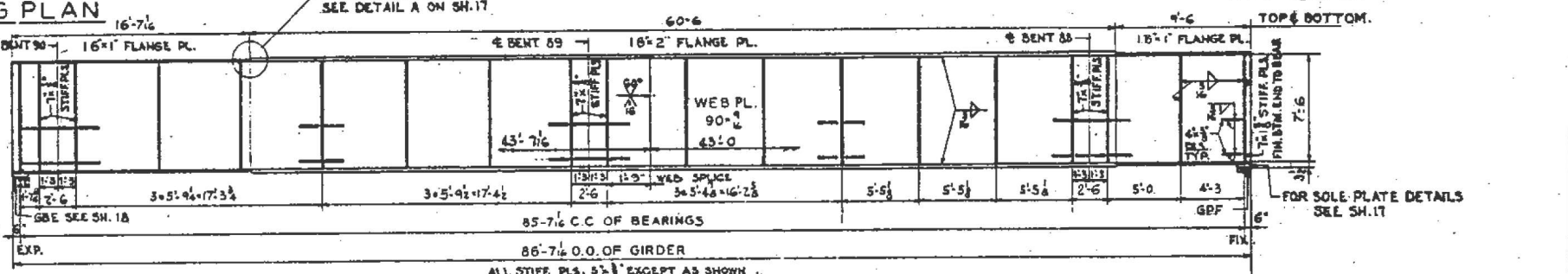
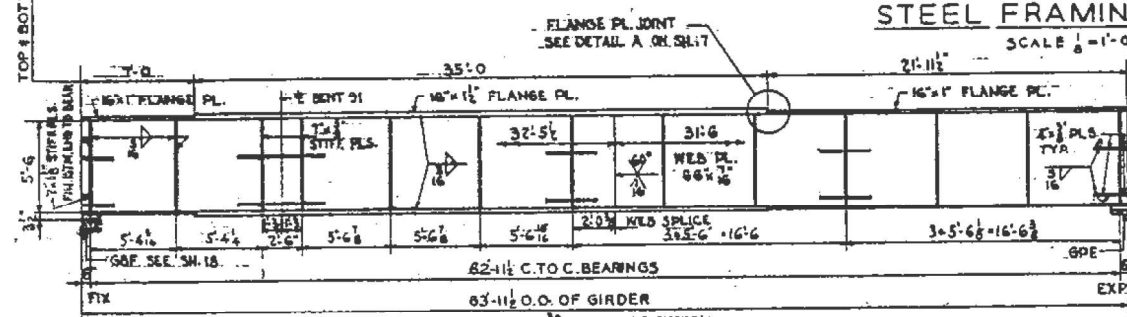
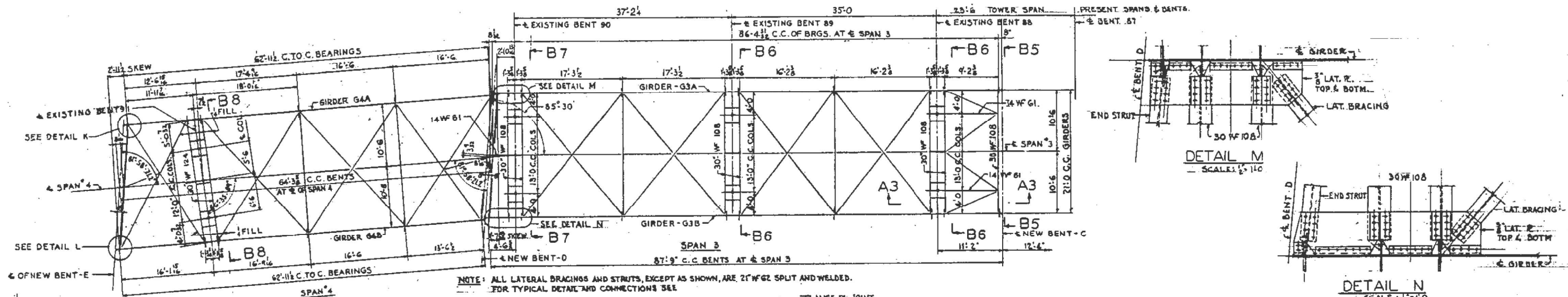
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| DRAWN - | REVISED - | |
| PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED - |
| PLOT DATE = 11/30/2020 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL DETAILS, SPAN 1 & 2.
CTA STRUCTURES OVER I-90/94 S. OF 55th ST

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|-------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90/94 | 2020-242-BP | COOK | 25 | 11 |
| CONTRACT NO. 62N12 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



FOR INFORMATION ONLY

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 Project: 2020-242-BP
 Date: 11/30/2020

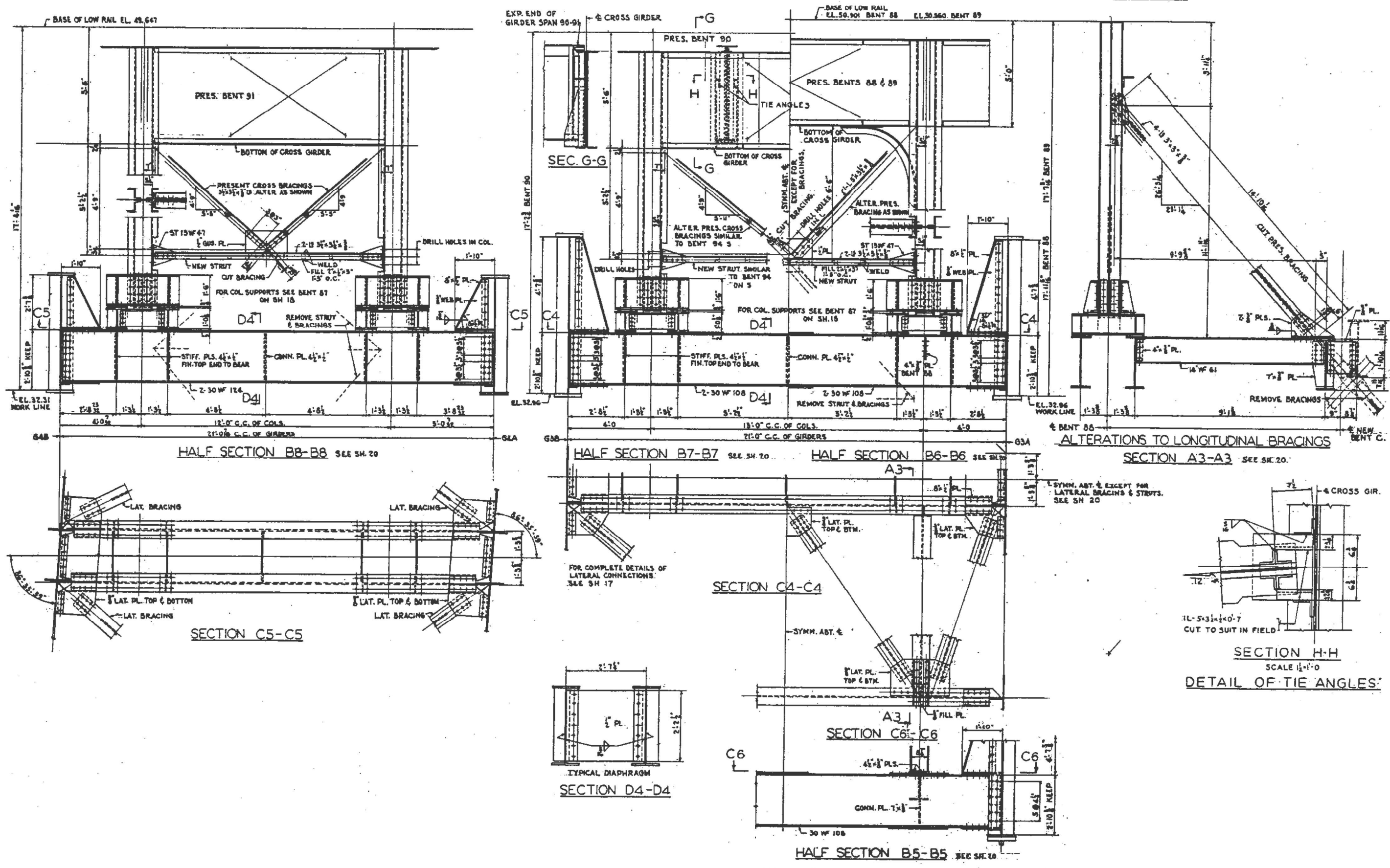
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|------------------------------|------------|-----------|
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| | DRAWN - | REVISED - |
| PLOT SCALE = 100.0000" / in. | CHECKED - | REVISED - |
| PLOT DATE = 11/30/2020 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURAL DETAILS, SPAN 3 & 4.
CTA STRUCTURES OVER I-90/94 S. OF 55th ST

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|---------------------|-------------|--------------------|--------------|
| F.A.I. RTE. 90/94 | SECTION 2020-242-BP | COUNTY COOK | TOTAL SHEETS 25 | SHEET NO. 14 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62N12 | |



FOR INFORMATION ONLY

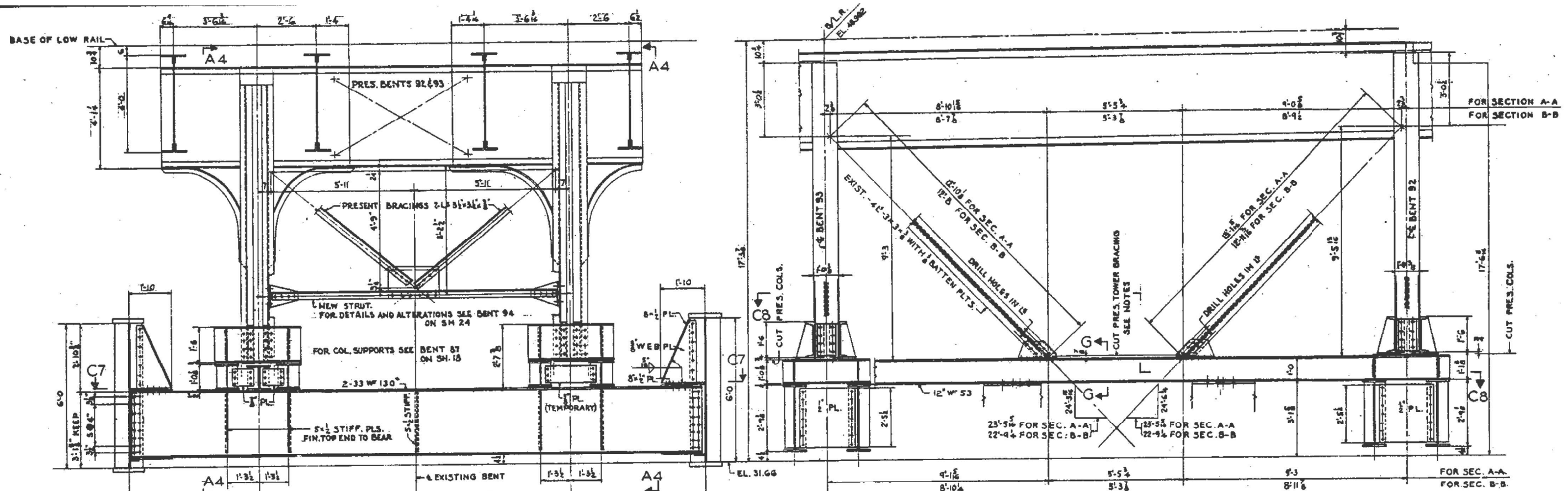
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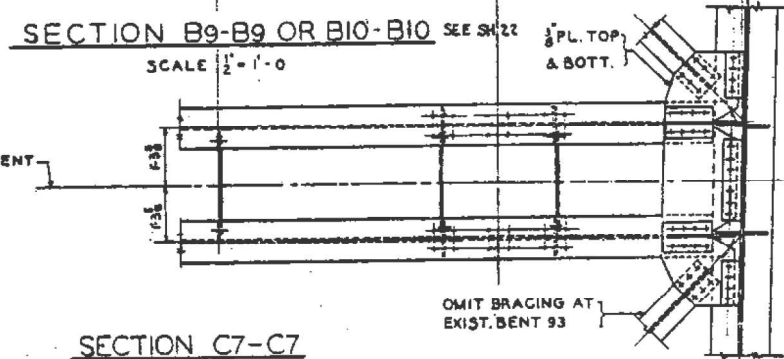
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL DETAILS, SPAN 3 & 4 DETAILS.
CTA STRUCTURES OVER I-90/94 S. OF 55th ST

| | | | | |
|-------------------------------------|---------------------|-------------|---------------------------|--------------|
| F.A.I. RTE. 90/94 | SECTION 2020-242-BP | COUNTY COOK | TOTAL SHEETS 25 | SHEET NO. 15 |
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| | | | ILLINOIS FED. AID PROJECT | |

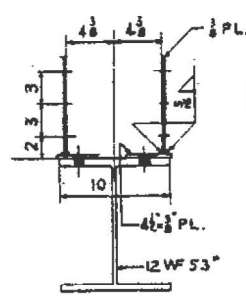


SECTION A4-A4 SEE SH 22
ALTERATIONS TO LONGITUDINAL BRACINGS
23'-10 1/2" C.C. OF COLS.

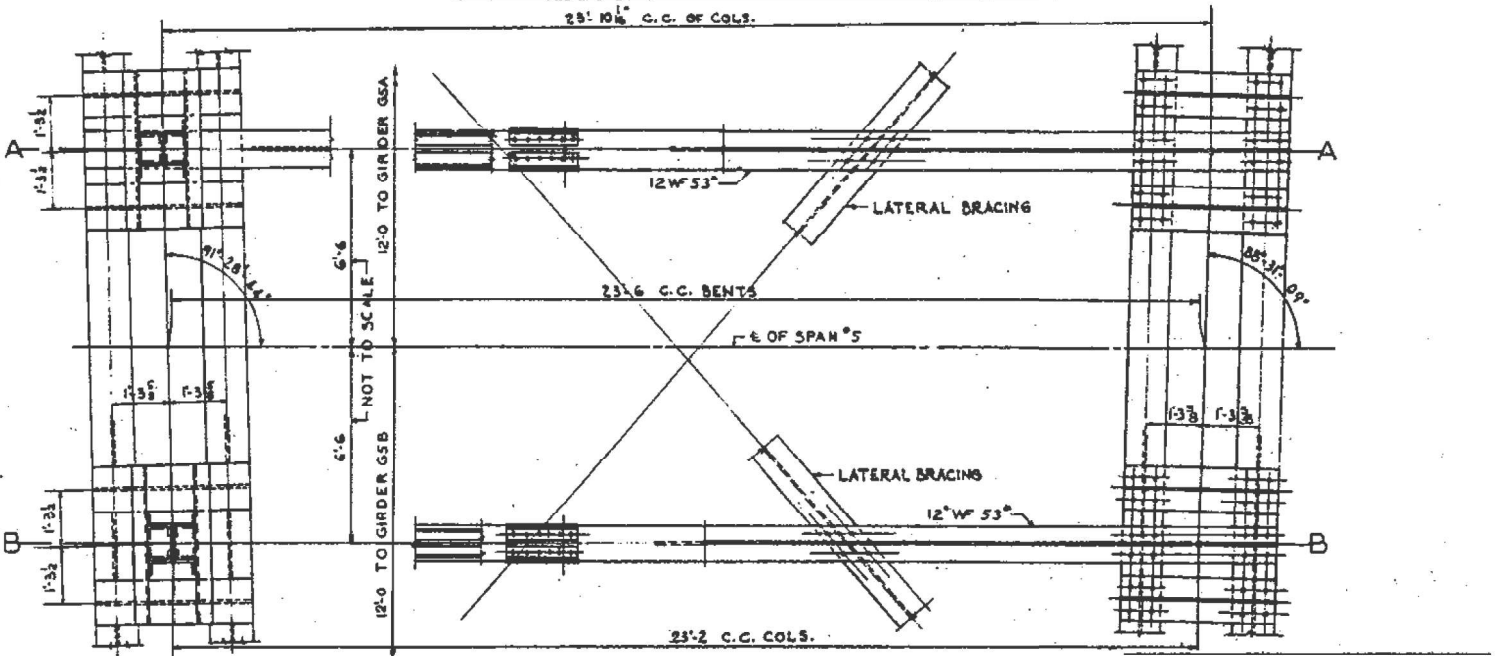


SECTION B9-B9 OR B10-B10 SEE SH 22
SCALE 1/2" = 1'-0"
PL. TOP & BOTT.

SECTION C7-C7



SECTION G-G



SECTION C8-C8

FOR INFORMATION ONLY

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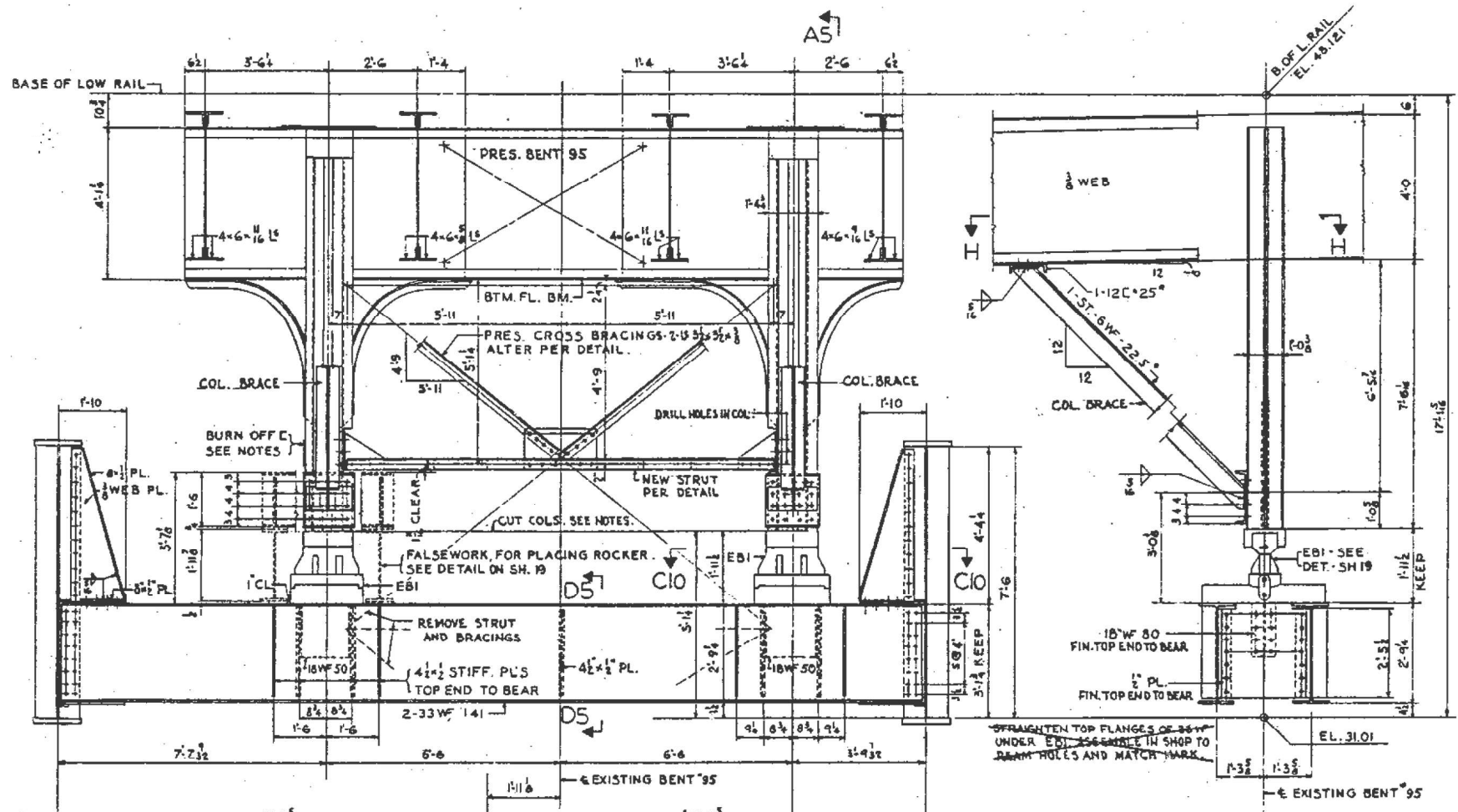
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

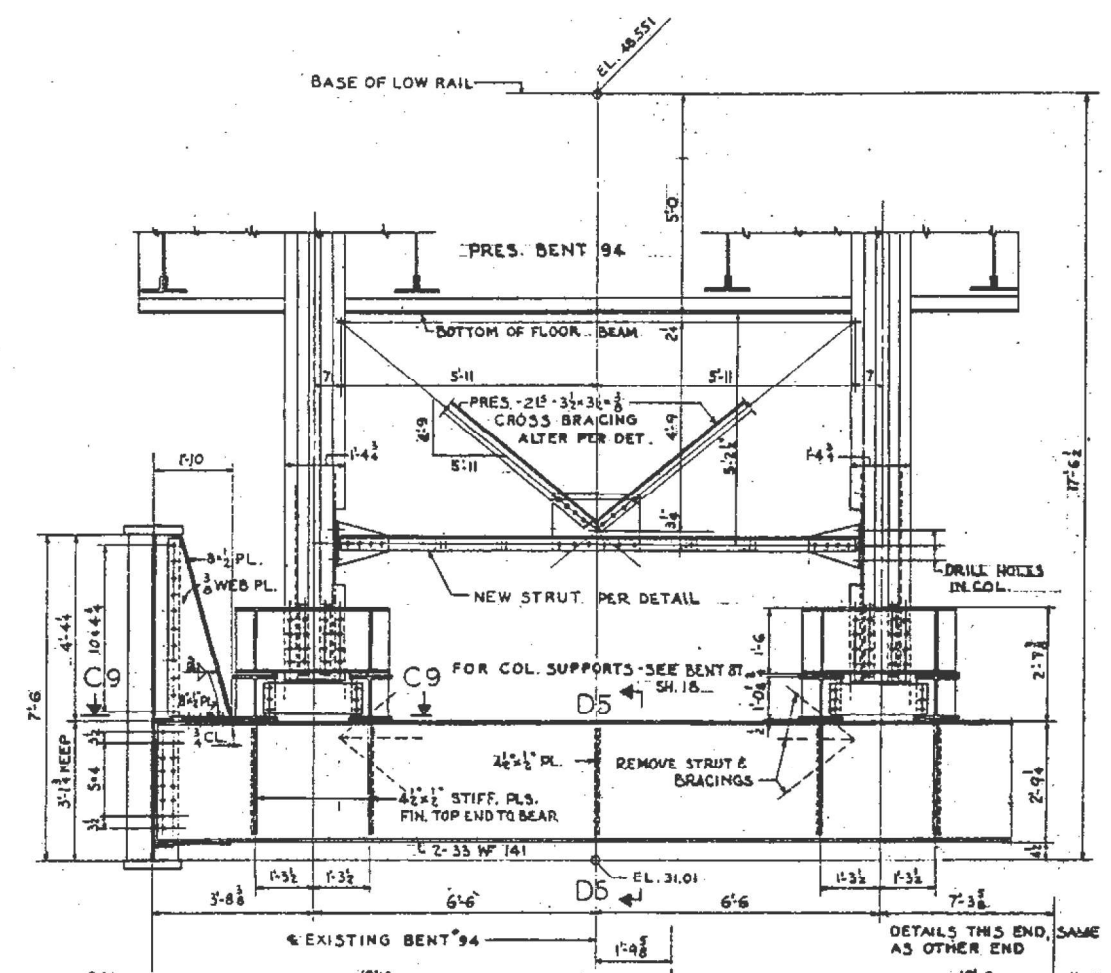
EXISTING STRUCTURAL DETAILS, SPAN 5 DETAILS.
CTA STRUCTURES OVER I-90/94 S. OF 55th ST

SCALE: SHEET OF SHEETS STA. TO STA.

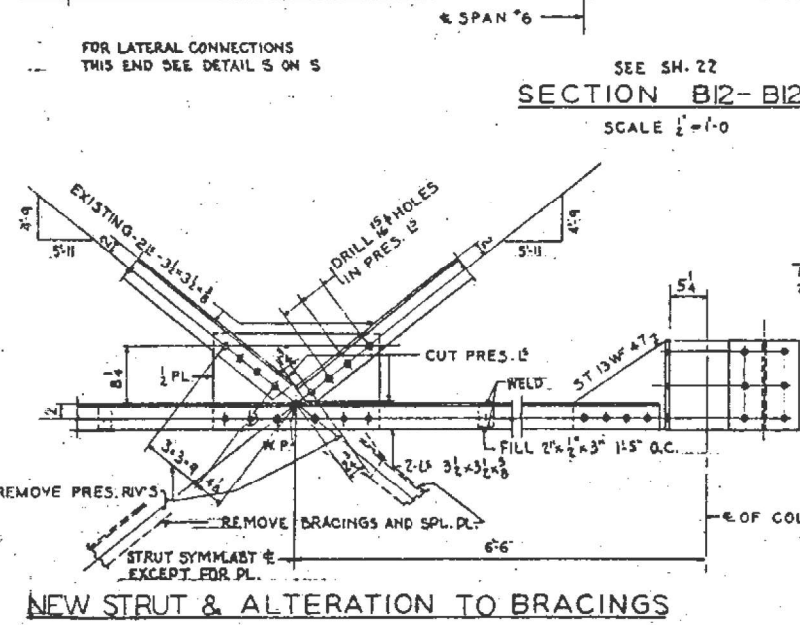
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| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62N12 | |



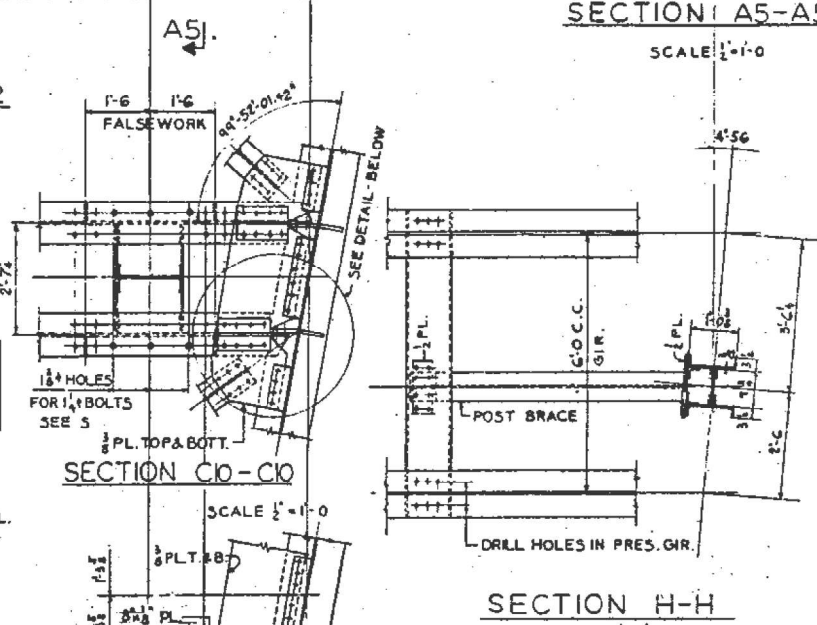
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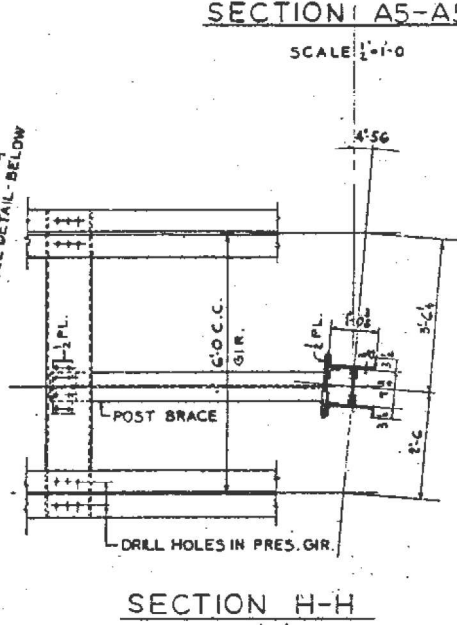
SECTION B11-B11 SEE SH. 22
SCALE 1/2"=1'-0"



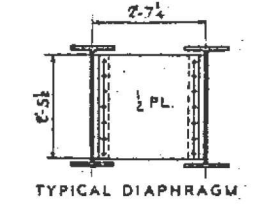
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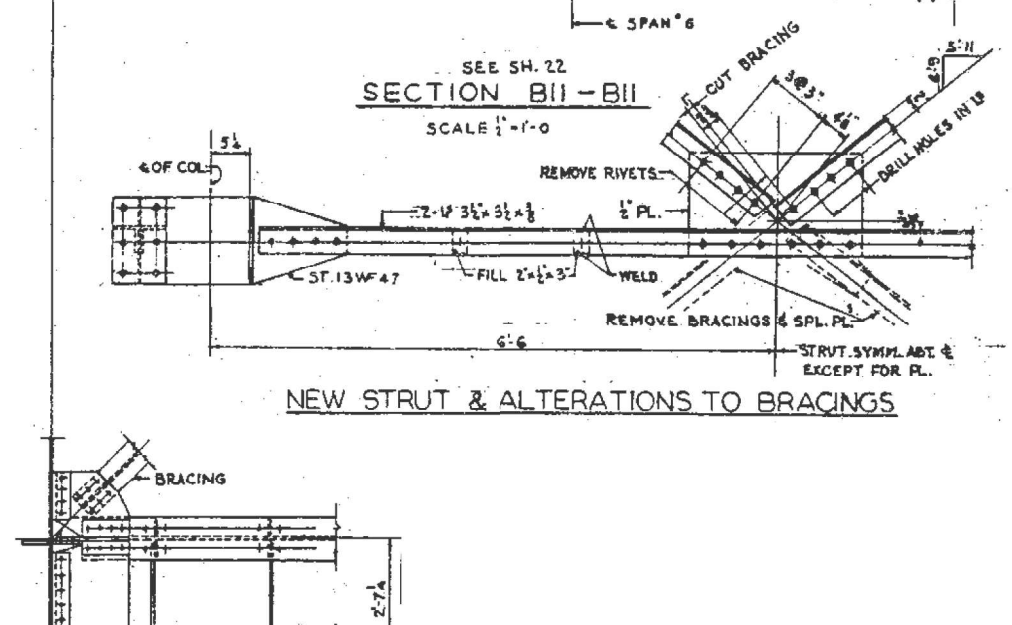
SECTION C10-C10
SCALE 1/2"=1'-0"



SECTION H-H
SCALE 1/2"=1'-0"



TYPICAL DIAPHRAGM
SECTION D5-D5
SCALE 1/2"=1'-0"



SECTION C9-C9

FOR INFORMATION ONLY

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 SHEET: 25 OF 18
 DATE: 11/30/2020

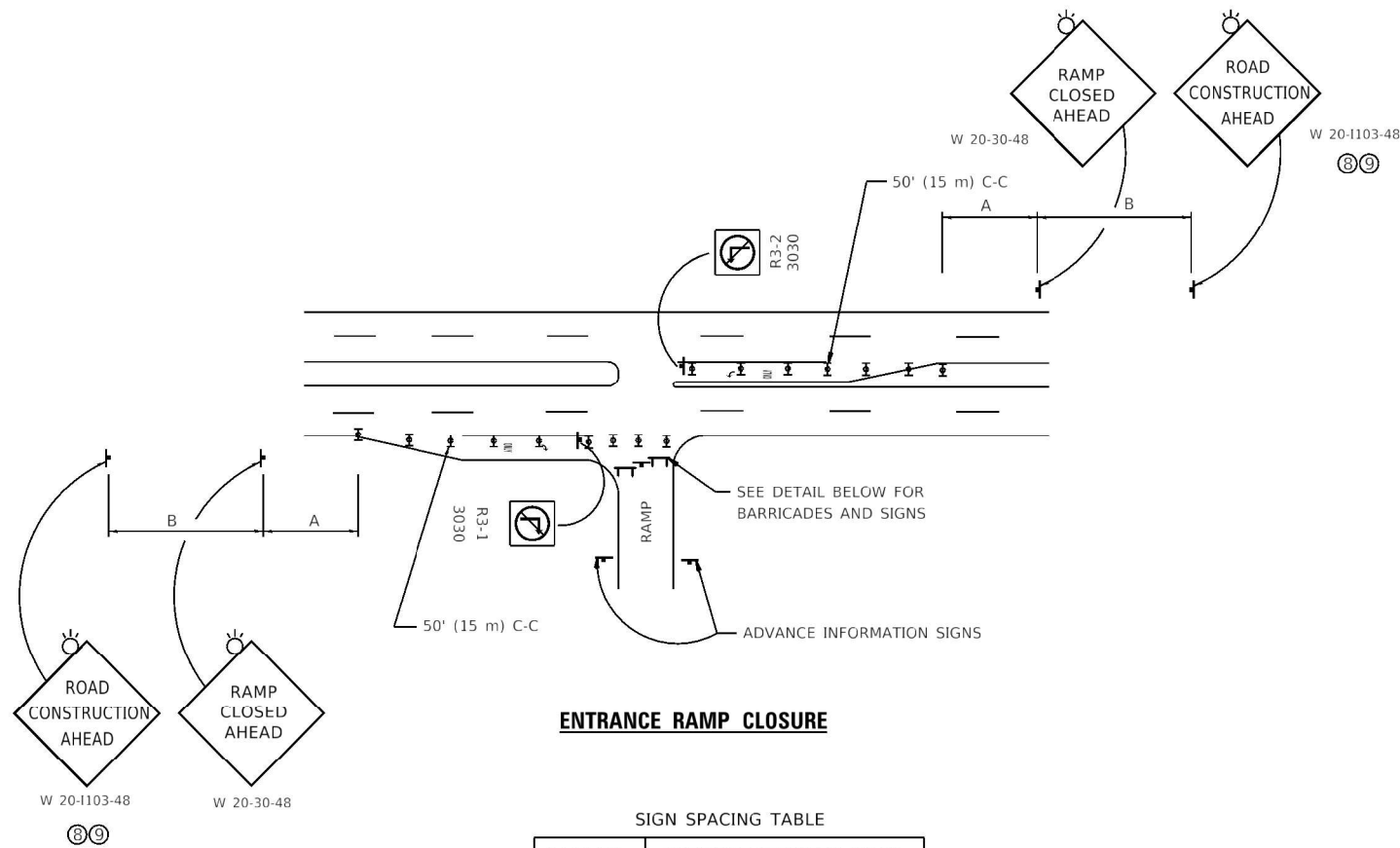
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| | DRAWN - | REVISED - |
| PLOT SCALE = 100.0000" / in. | CHECKED - | REVISED - |
| PLOT DATE = 11/30/2020 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL DETAILS, SPAN 6 DETAILS.
CTA STRUCTURES OVER I-90/94 S. OF 55th ST

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|--------------------|---------------------|-------------|-----------------|---------------------------|
| F.A.I. RTE. 90/94 | SECTION 2020-242-BP | COUNTY COOK | TOTAL SHEETS 25 | SHEET NO. 18 |
| CONTRACT NO. 62N12 | | | | ILLINOIS FED. AID PROJECT |

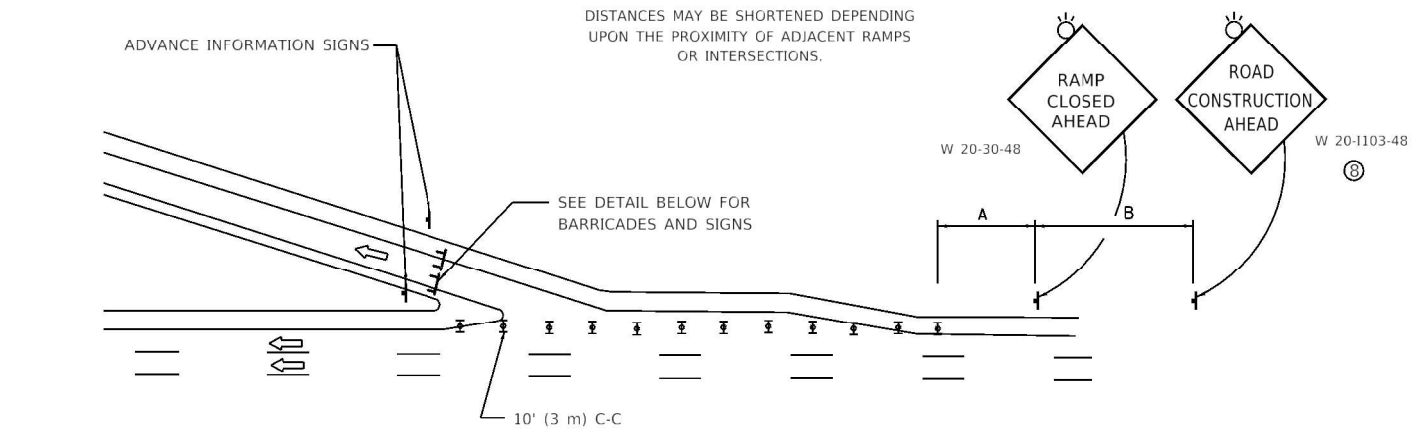


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

| 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) |

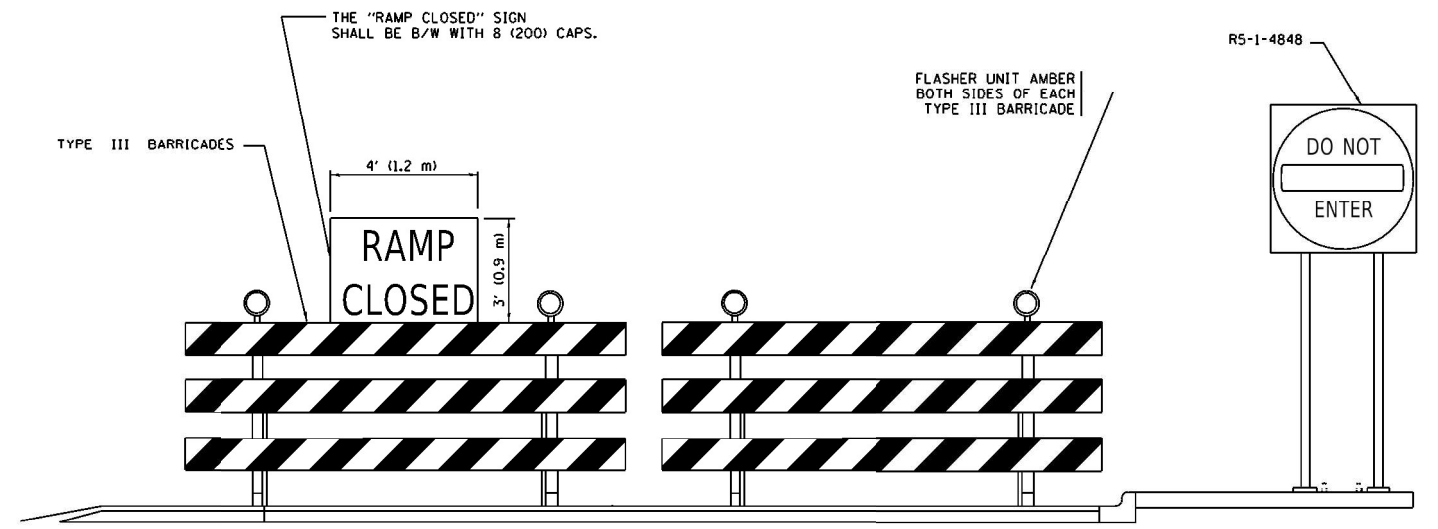
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

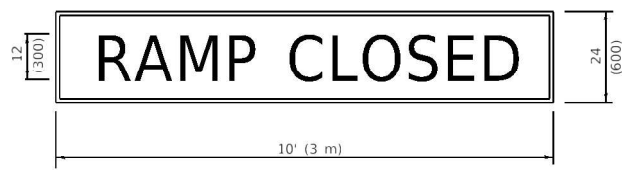
SYMBOLS

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



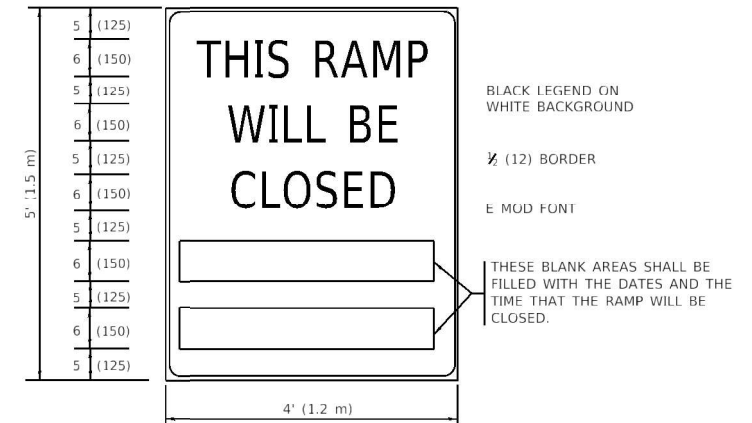
DETAIL FOR REQUIRED BARRICADES & SIGNS

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.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND
1/2 (12) BORDER
E MOD FONT
THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

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

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.

Model: Default; File: \\p01\share\arcam\dat_illinois\proj\PROJECT\Documents\DOT_Offices\District 1\Project\CD\04021\CD00Data\Design\DiscSet.dgn

| | | |
|-----------------------------|-------------------|------------------------|
| USER NAME = gorengautab | DESIGNED - D.W.S. | REVISED - S.P.B._01-07 |
| | DRAWN - | REVISED - S.P.B._12-09 |
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| PLOT DATE = 11/30/2020 | DATE - 02-83 | REVISED - M.D._01-18 |

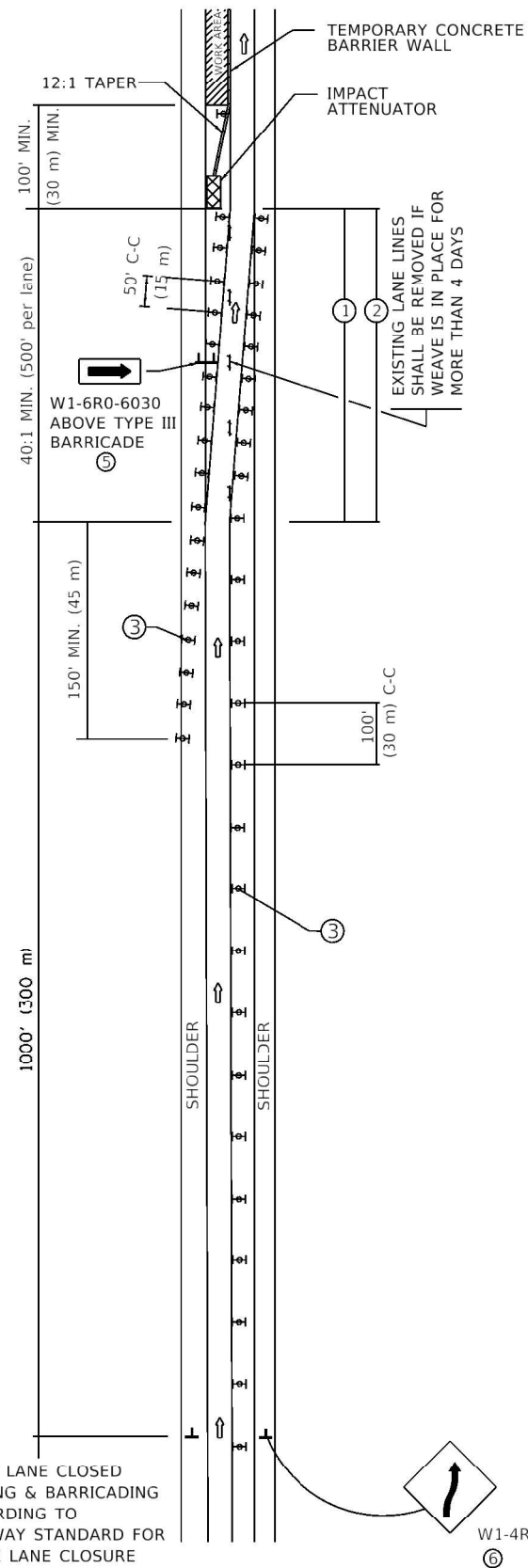
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

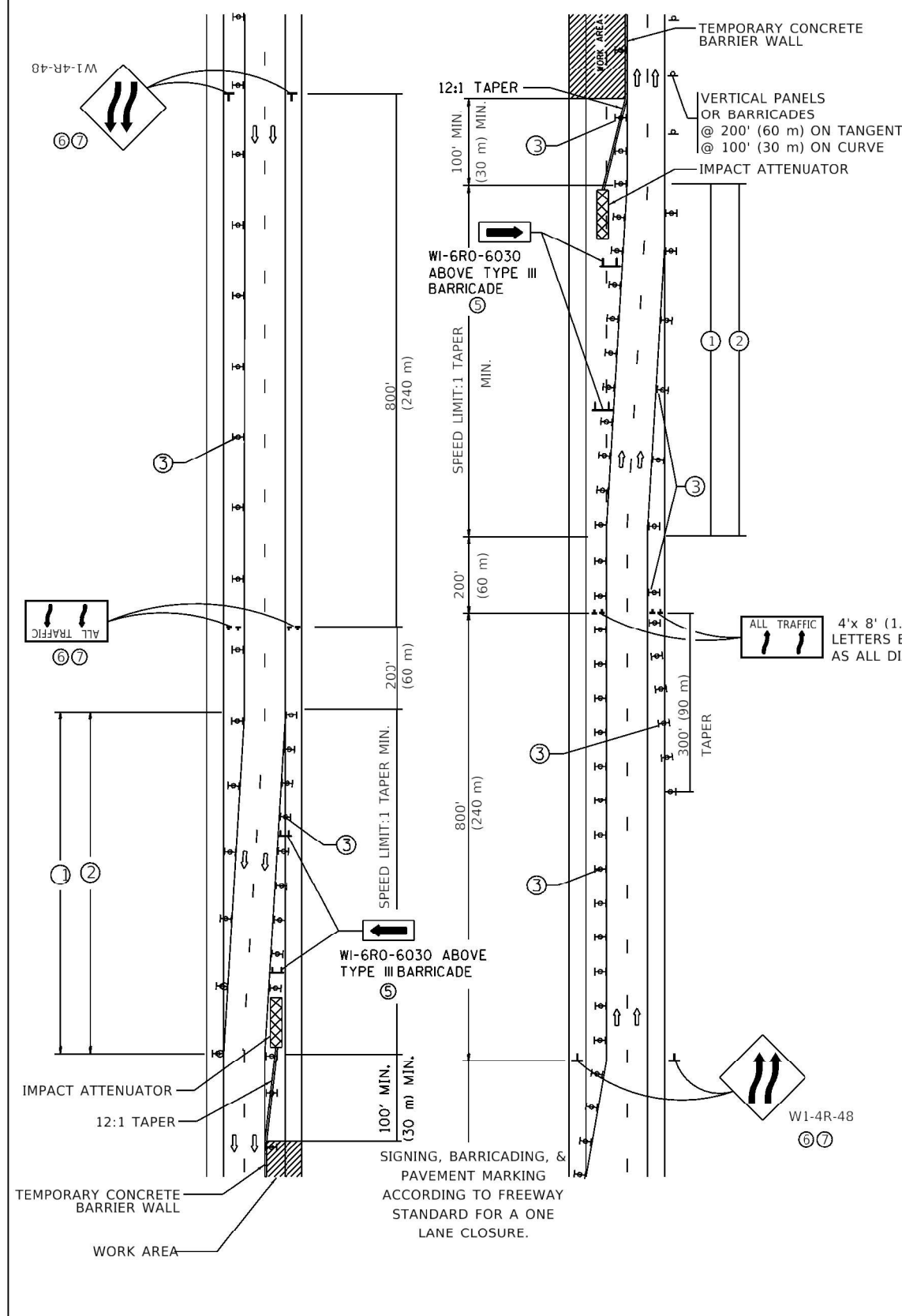
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

| | | | | |
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| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90/94 | 2020-242-BP | COOK | 25 | 19 |
| TC-08 | | | CONTRACT NO. 62N12 | |
| ILLINOIS FED. AID PROJECT | | | | |

SINGLE LANE WEAVE



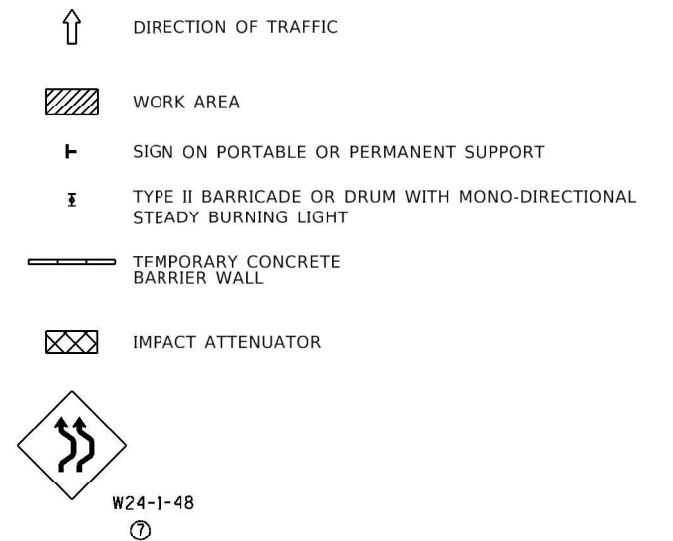
MULTI-LANE WEAVE



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



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

MODEL: Default
FILE: Model - 2020-242-BP\Documents\DOT - Offices\District 1\Project\2020-242-BP\2020-242-BP-TC-09.dgn

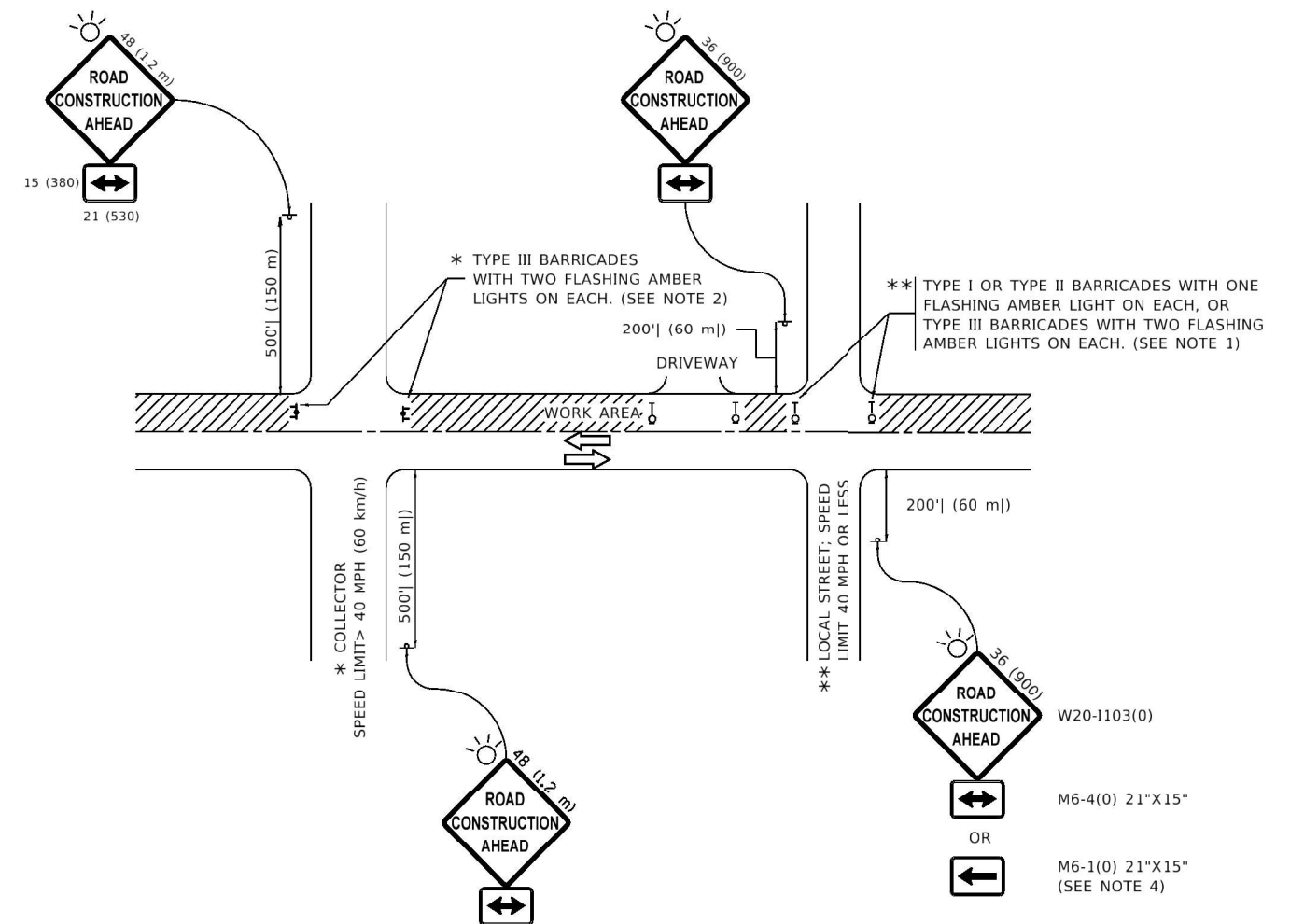
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| | DRAWN - | REVISED - S.P.B. 01-07 |
| PLOT SCALE = 100.0000" / in. | CHECKED - | REVISED - S.P.B. 12-09 |
| PLOT DATE = 11/30/2020 | DATE - 02-87 | REVISED - M.D. 06-13 |

**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.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|-------------|--------------------|--------------|-----------|
| 90/94 | 2020-242-BP | COOK | 25 | 20 |
| TC-09 | | CONTRACT NO. 62N12 | | |
| ILLINOIS | | FED. AID PROJECT | | |



NOTES:

1. 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:
 - a) 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.
 - b) 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.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER.
 - a) 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.
 - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. 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.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. 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.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. 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.

MODEL: Default
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 USER: gorenautab
 PROJECT: 2020-242-BP
 SHEET: 21
 DATE: 11/30/2020

| | | |
|------------------------------|-------------------|---------------------------------|
| USER NAME = gorenautab | DESIGNED - L.H.A. | REVISED - A. HOUSEH 10-15-96 |
| | DRAWN - | REVISED - T. RAMMACHER 01-06-00 |
| PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED - A. SCHUETZE 07-01-13 |
| PLOT DATE = 11/30/2020 | DATE - 06-89 | REVISED - A. SCHUETZE 09-15-16 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

| F.A. I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------|--------------------|--------------|-----------|
| 90/94 | 2020-242-BP | COOK | 25 | 21 |
| TC-10 | | CONTRACT NO. 62N12 | | |
| ILLINOIS FED. AID PROJECT | | | | |

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

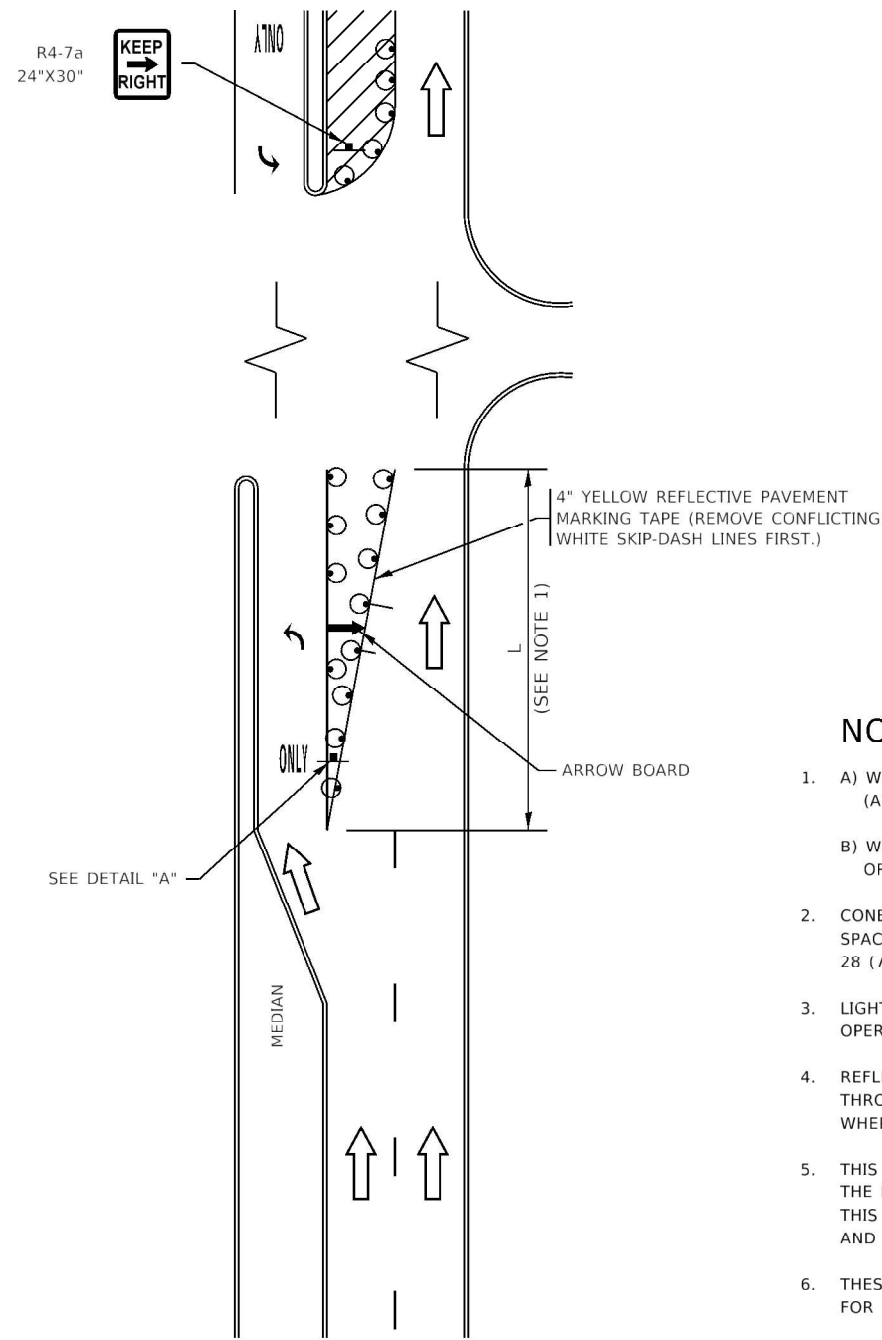


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

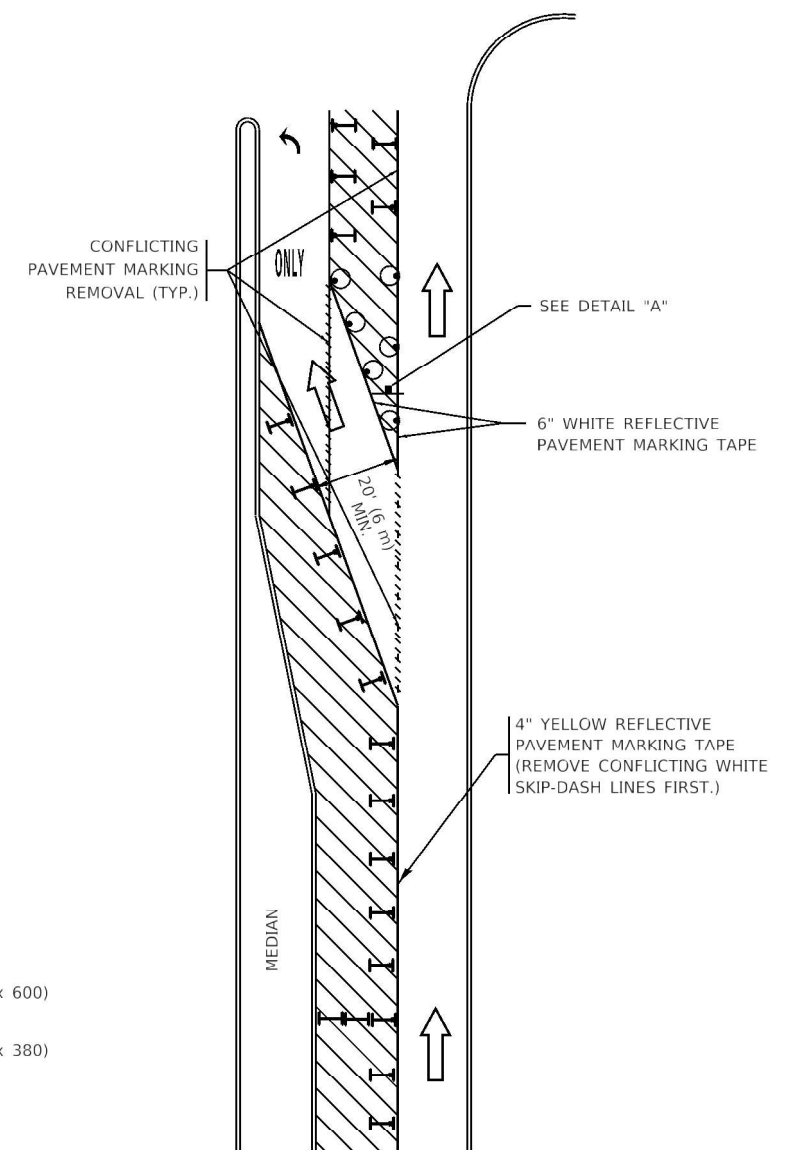


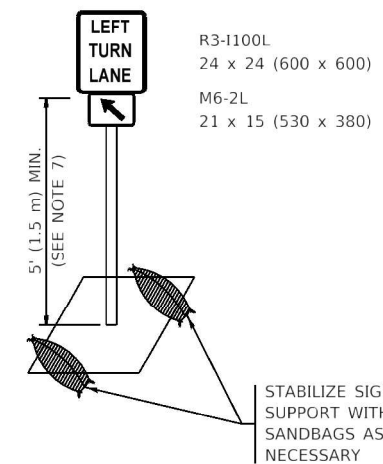
FIGURE 2

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (1/10) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



DETAIL A

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

Model: Default
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|------------------------------|----------------------------------|--------------------------------|
| USER NAME = gorenautab | DESIGNED - T. RAMMACHER 09-08-94 | REVISED - R. BORO 09-14-09 |
| | DRAWN - A. HOUSEH 11-07-95 | REVISED - A. SCHUETZE 07-01-13 |
| PLOT SCALE = 100.0000" / in. | CHECKED - A. HOUSEH 10-12-96 | REVISED - A. SCHUETZE 09-15-16 |
| PLOT DATE = 11/30/2020 | DATE - T. RAMMACHER 01-06-00 | REVISED - |

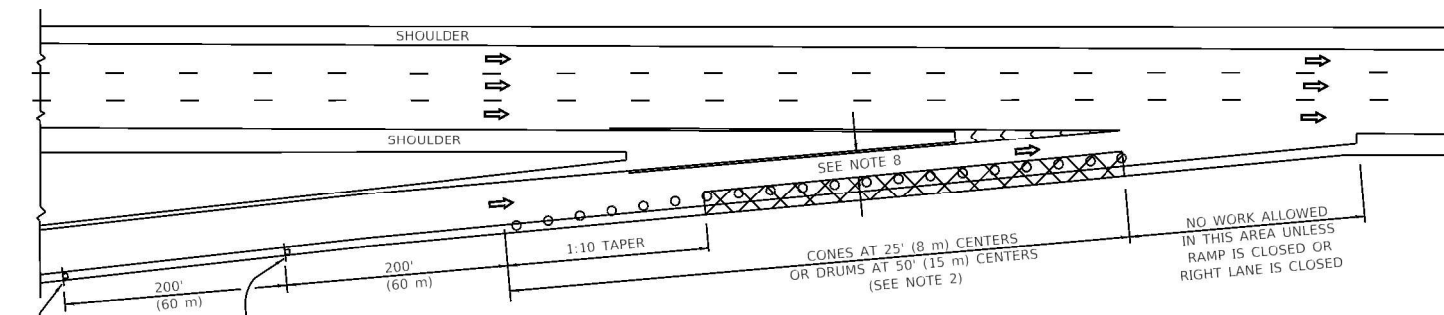
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

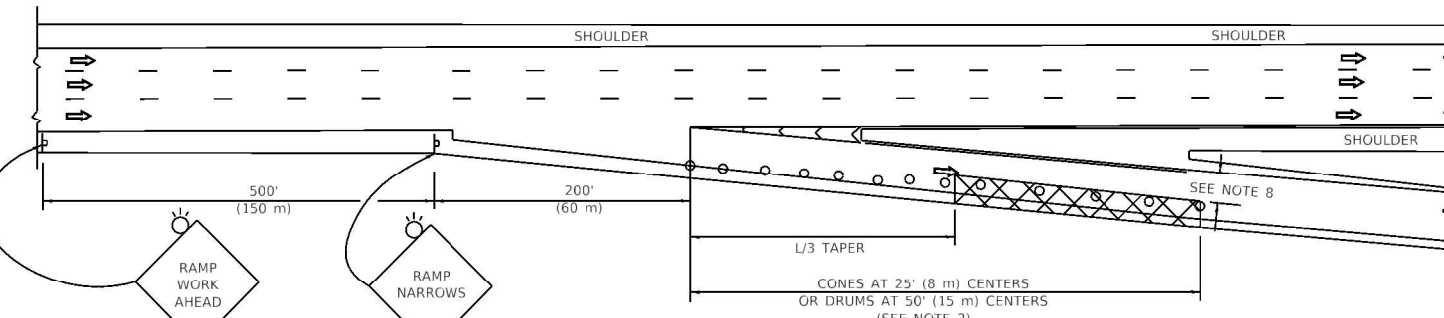
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

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| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90/94 | 2020-242-BP | COOK | 25 | 22 |
| TC-14 | | CONTRACT NO. 62N12 | | |
| | | ILLINOIS FED. AID PROJECT | | |

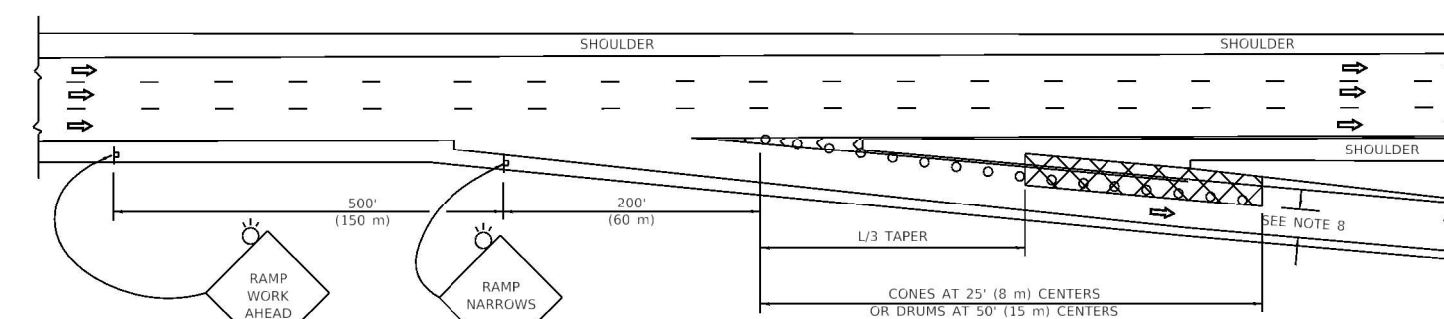
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

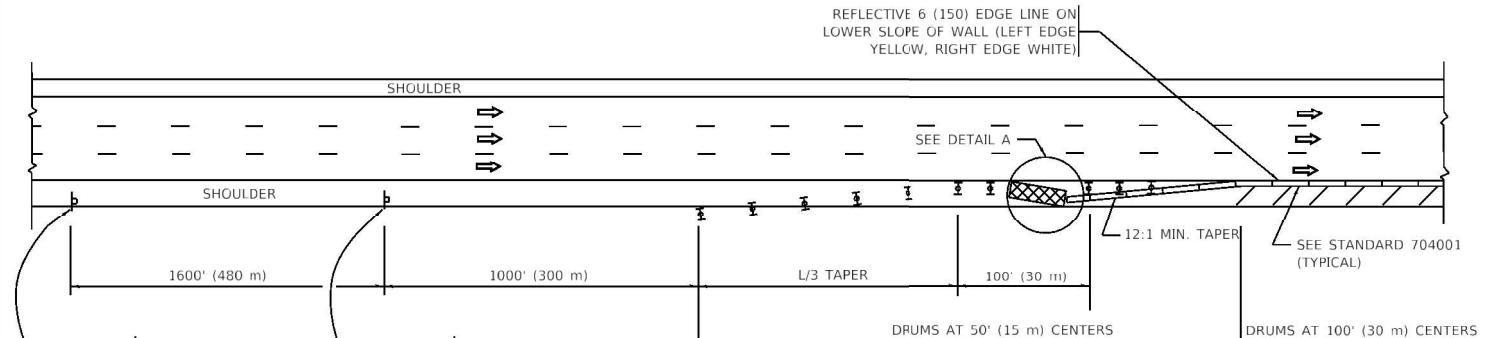
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES:

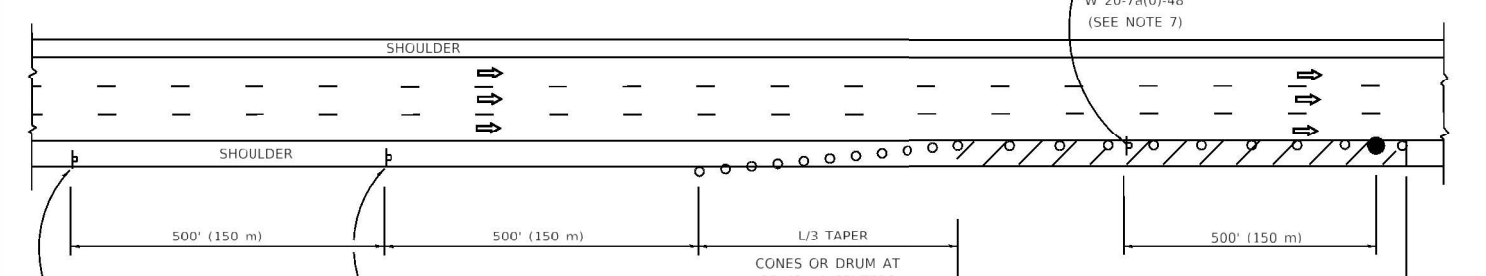
1. THE "L" DISTANCE EQUALS:

| | |
|------------------|--------------------------------------|
| $SPEED\ LIMIT$ | $FORMULAS$ |
| 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



TEMPORARY SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH 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 ENCROACHMENT 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.
9. 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.

MODEL: Default
 FILE: \\snp\share\com\dat\illinois\pwt\DOT\Documents\DOT - Offices\District 1\Projects\CD 040921\CD040921.dgn
 PROJECT: CD 040921

| | | |
|------------------------------|----------------|------------------------|
| USER NAME = gorenautab | DESIGNED - | REVISED - S.P.B. 12-09 |
| | DRAWN - D.W.S. | REVISED - M.D. 06-13 |
| PLOT SCALE = 100.0000" / in. | CHECKED - | REVISED - M.D. 01-18 |
| PLOT DATE = 11/30/2020 | DATE - 11-96 | REVISED - M.D. 10-20 |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

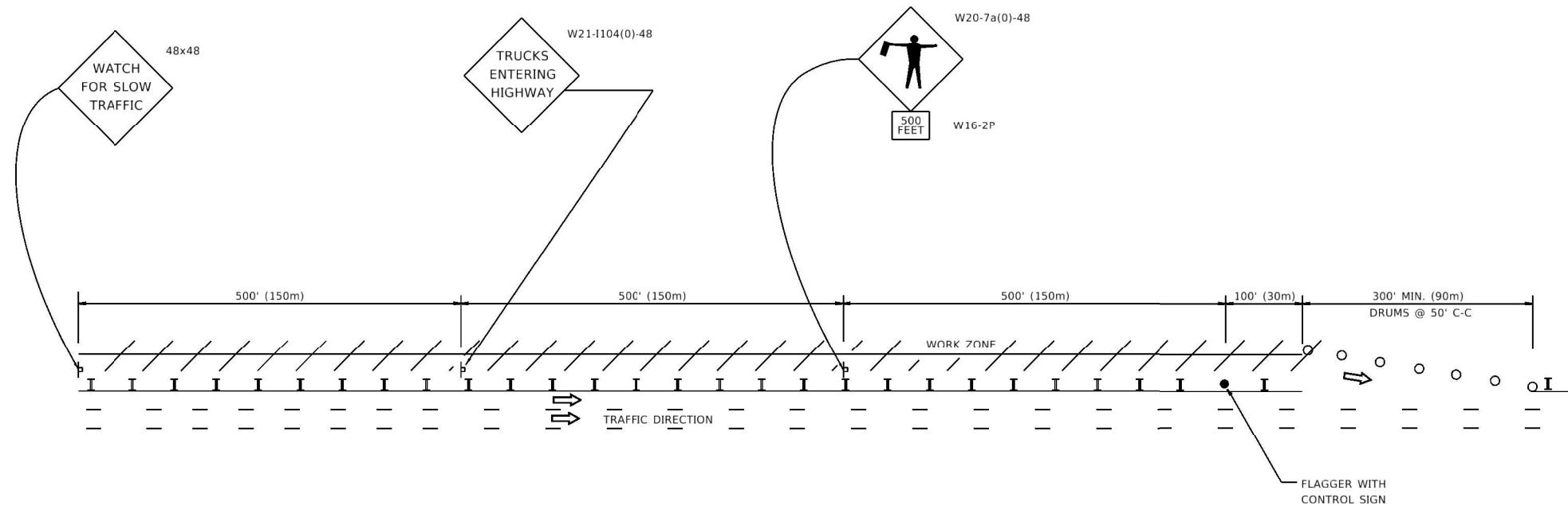
**TRAFFIC CONTROL DETAILS FOR FREEWAY
 SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES**

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

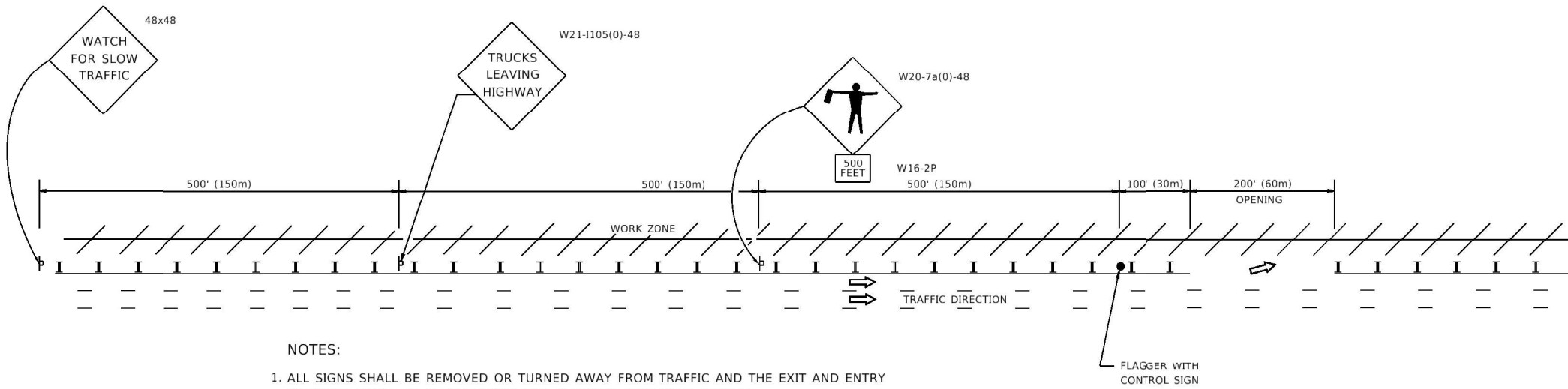
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------|--------|--------------------|-----------|
| 90/94 | 2020-242-BP | COOK | 25 | 23 |
| TC-17 | | | CONTRACT NO. 62N12 | |
| ILLINOIS FED. AID PROJECT | | | | |

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



- NOTES:
1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
 2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMPS.
 3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
 4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
 5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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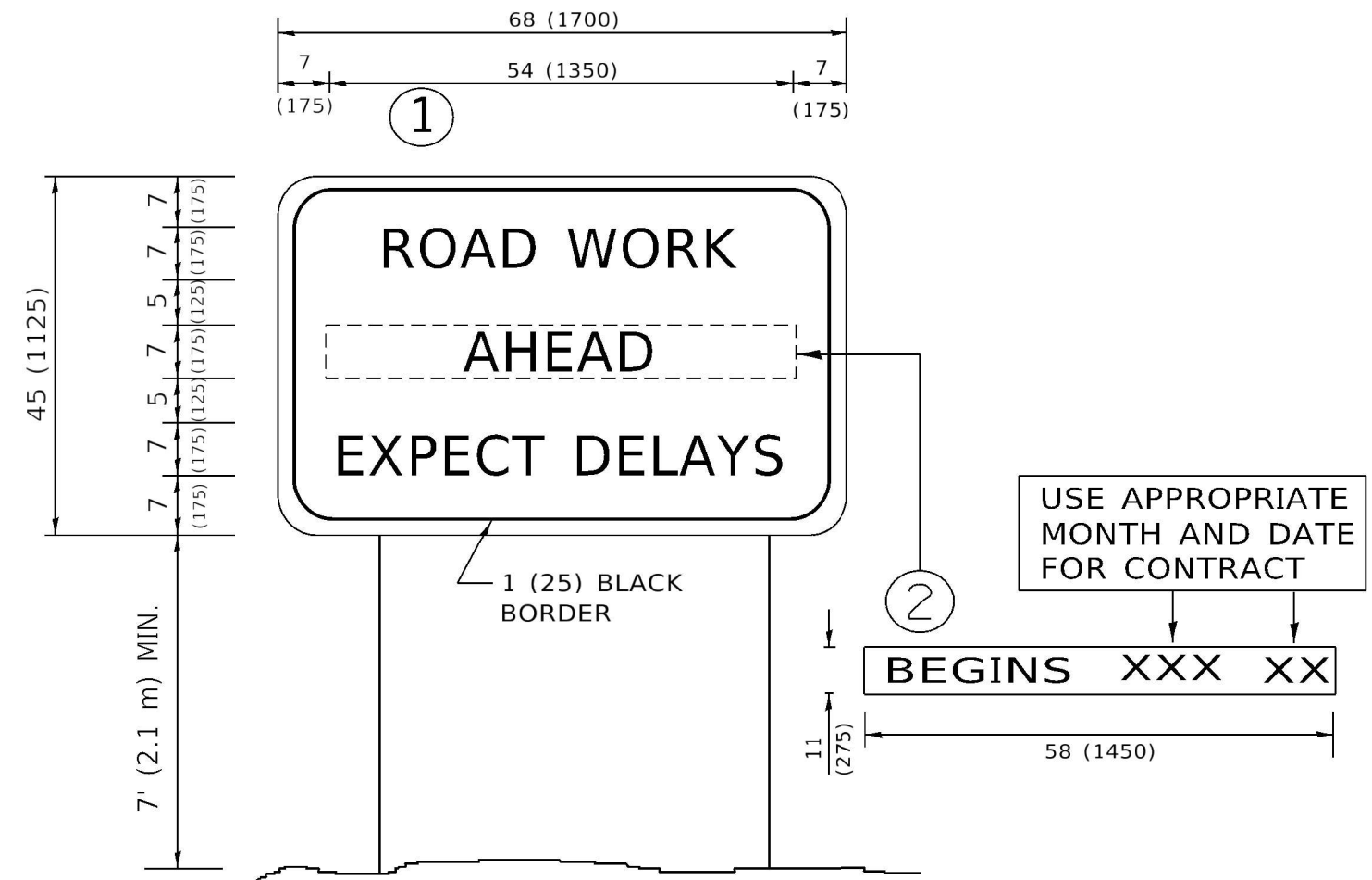
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| USER NAME = gorengautab | DESIGNED - | REVISED - J.A.F. 02-06 |
| | DRAWN - | REVISED - S.P.B. 01-07 |
| PLOT SCALE = 100.0000 " / in. | CHECKED - | REVISED - S.P.B. 12-09 |
| PLOT DATE = 11/30/2020 | DATE - | REVISED - M.D.06-13 |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**FREEWAY /EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS
 AT WORK ZONE OPENINGS ON FREEWAYS /EXPRESSWAYS**

| | | | | |
|---------------------------|---------------------|-------------|--------------------|--------------|
| F.A.I. RTE. 90/94 | SECTION 2020-242-BP | COUNTY COOK | TOTAL SHEETS 25 | SHEET NO. 24 |
| TC-18 | | | CONTRACT NO. 62N12 | |
| ILLINOIS FED. AID PROJECT | | | | |

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



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

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 PROJECT: I:\Projects\2020\2020-242-BP\2020-242-BP.dwg
 USER: gorenautab

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|------------------------------|------------|---------------------------------|
| USER NAME = gorenautab | DESIGNED - | REVISED - R. MIRS 09-15-97 |
| | DRAWN - | REVISED - R. MIRS 12-11-97 |
| PLOT SCALE = 100.0000" / in. | CHECKED - | REVISED - T. RAMMACHER 02-02-99 |
| PLOT DATE = 11/30/2020 | DATE - | REVISED - C. JUCIUS 01-31-07 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

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|---------------------------|-------------|--------|--------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90/94 | 2020-242-BP | COOK | 25 | 25 |
| TC-22 | | | CONTRACT NO. 62N12 | |
| ILLINOIS FED. AID PROJECT | | | | |