

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

**PROPOSED
 HIGHWAY PLANS**

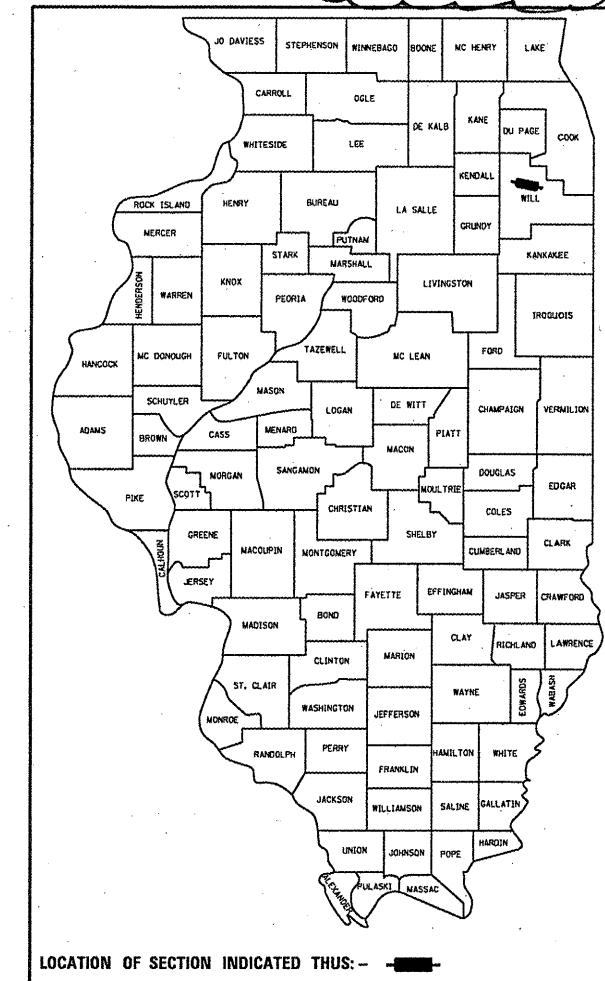
FAP ROUTE 112: IL 53 (RUBY STREET)
 OVER DES PLAINES RIVER
 SECTION: M-BDR-1
 BRIDGE REPAIR
 WILL COUNTY
 C-91-115-04

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|----------|--------------------|-----------|
| 112 | M-BDR-1 | WILL | 66 | 1 |
| | | ILLINOIS | CONTRACT NO. 62714 | |

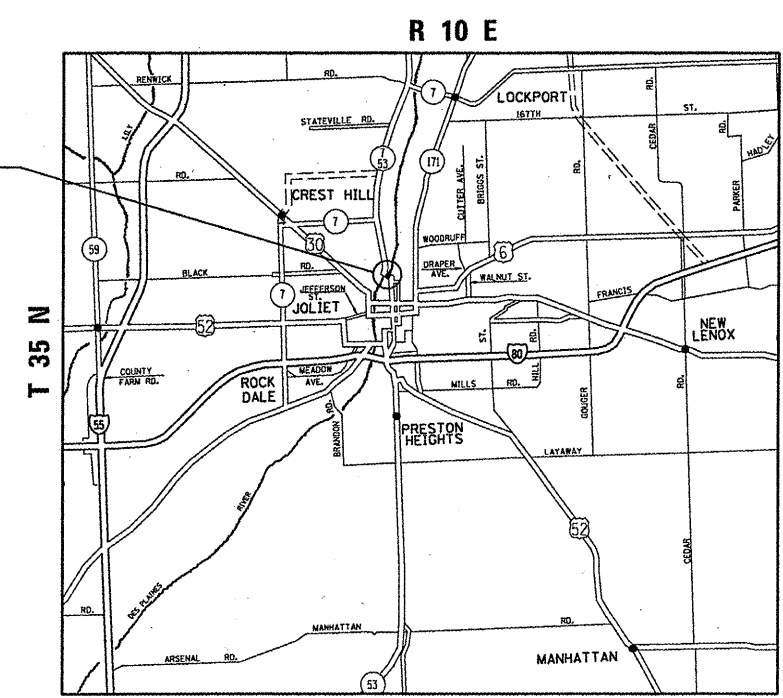
* 66 + 1 = 67
 D-91-115-04 * 67 + 3 = 70

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS IMPROVEMENT IS LOCATED IN
 THE CITY OF JOLIET



LOCATION:
 IL 53 (RUBY ST.) OVER
 DES PLAINES RIVER
 SN 099-9901



JOLIET TOWNSHIP



TRAFFIC DATA:
 2009 ADT: 10,000
 SPEED LIMIT: 30 MPH

NET LENGTH OF IMPROVEMENT = 395 LINEAL FT
 GROSS LENGTH OF IMPROVEMENT = 395 LINEAL FT

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

PROJECT ENGINEER: ROBERT BORO (847)705-4178
 PROJECT MANAGER: ISSAM RAYYAN

CONTRACT NO. : 62714

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED JULY 8 20 11
Diana M. O'Keefe
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Aug 19 20 11
Scott E. Stitt, P.E.
 acting ENGINEER OF DESIGN AND ENVIRONMENT

Aug 19 20 11
Christine M. Reedler
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

Rev. 9-13-11

INDEX OF SHEETS

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LIST OF STATE STANDARDS

| <u>STANDARD NO.</u> | <u>DESCRIPTION</u> |
|---------------------|--|
| 701301-04 | LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS |
| 701606-07 | URBAN LANE CLOSURE MULTILANE 2W WITH MOUNTABLE MEDIAN |
| 701801-04 | LANE CLOSURE, MULTILANE, 1W OR 2W, CROSSWALK OR SIDEWALK CLOSURE |
| 701901-01 | TRAFFIC CONTROL DEVICES |
| 720001-01 | SIGN PANEL MOUNTING DETAILS |

THIS PROJECT REQUIRES AN US ARMY CORPS OF ENGINEERS 404 PERMIT. THE PERMIT ISSUED TO THE DEPARTMENT DOES NOT COVER THE IN STREAM WORK BY THE CONTRACTOR. THEREFORE AFTER AWARD, THE CONTRACTOR WILL NEED TO SUBMIT THE WORK PLAN TO THE CORPS. THE CORPS WILL NOT BE PROVIDING AN APPROVAL UNLESS STATED OTHERWISE IN THE PERMIT AND IN STREAM WORK CAN COMMENCE AT THE CONTRACTOR'S DISCRETION. GUIDELINES ON ACCEPTABLE IN STREAM WORK TECHNIQUES CAN BE FOUND ON THE CORPS WEBSITE: [HTTP:WWW.LRC.USACE.ARMY.MIL/](http://www.lrc.usace.army.mil/)

2 Rev. 9-13-11

| | | | | | | | | | | |
|---|--------------------|------------|---------------------------|---|--|----------------------------------|---------|--------|-----------------|--------------|
| FILE NAME = | USER NAME = midyja | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | INDEX OF SHEETS & STATE STANDARDS SN 099-9901 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| ct:\pw\work\p\dot\midyja\d0148931\Design\fign | DRAWN - | REVISED - | 112 | | | M-BDR-1 | WILL | 66 | 2 | |
| PLOT SCALE = 1/83.1218" / 1in. | CHECKED - | REVISED - | CONTRACT NO. 62714 | | | | | | | |
| PLOT DATE = 7/12/2011 | DATE - | REVISED - | ILLINOIS FED. AID PROJECT | | | | | | | |
| | | | | | SCALE: | SHEET NO. OF SHEETS STA. TO STA. | | | | |

2

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 HOUR NOTIFICATION IS REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES & CITY OF JOLIET.

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 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 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) 705-4470 A MINMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

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 NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.

WORK ON THE STRUCTURE SHALL BE DONE IN SUCH A MANNER THAT THE CLOSURE OF THE BRIDGE TO RIVER TRAFFIC (PERIODS WHERE THE BRIDGE IS RESTRICTED IN THE DOWN POSITION) IS PROHIBITED. RIVER TRAFFIC IS TO BE MAINTAINED AT ALL TIMES. WORK THAT REQUIRES THE BRIDGE TO BE IMMOBILIZED SHALL BE DONE WITH THE BRIDGE RESTRICTED IN THE UP POSITION, SUBJECT TO COAST GUARD APPROVAL.

THE AREA WHERE THE TIMBER SIDEWALK IS REMOVED SHALL BE SECURED WITH TEMPORARY FENCE ACCORDING TO ART. 201.05 (A) OF THE STANDARD SPECIFICATIONS. COST SHALL BE INCLUDED WITH "TRAFFIC CONTROL AND PROTECTION STANDARD (SPECIAL)".

THE CONTRACTOR SHALL OBTAIN COAST GUARD APPROVAL TO OCCUPY NAVIGABLE WATERS, IF REQUIRED, FOR THE PROPOSED WORK. A WORK PLAN SHALL BE PREPARED BY THE CONTRACTOR, REVIEWED AND APPROVED BY THE ENGINEER AND BE SUBMITTED BY THE ENGINEER TO THE COAST GUARD AT THE ADDRESS LISTED BELOW FOR APPROVAL.

BRIDGE ADMINISTRATOR
US COAST GUARD
EIGHTH COAST GUARD DISTRICT
1222 SPRUCE ST
ST. LOUIS, MO 63103-2832
ROGER WIEBESCH (314) 269-2378

| | | | | | | | | | | |
|---|---------------------------|------------|-----------|---|--------------------------------------|---------------------------|---------|---------|-----------------|--------------|
| FILE NAME = | USER NAME = midyjo | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | GENERAL NOTES SN 099-9901 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| as:\pw\work\pwidot\midyjo\0148931\0111504\sh-t-plan.dgn | | DRAWN - | REVISED - | | | 112 | M-BDR-1 | WILL | 66 | 3 |
| | PLOT SCALE = 1/8" = 1'-0" | CHECKED - | REVISED - | | SCALE: | SHEET NO. OF SHEETS STA. | | TO STA. | | |
| | PLOT DATE = 7/8/2011 | DATE - | REVISED - | | ILLINOIS FED. AID PROJECT | | | | | |
| | | | | | | CONTRACT NO. 62714 | | | | |

GENERAL NOTES FOR PAINT

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

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHOULD TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

THE CONTRACTOR SHALL SUBMIT CALCULATIONS AND DETAILS DEMONSTRATING THE STRUCTURAL INTEGRITY OF THE BRIDGE IS MAINTAINED UNDER THE ADDITIONAL IMPOSED LOADS OF THE CONTAINMENT SYSTEM, SEE SPECIAL PROVISIONS.

A MINIMUM OF FOUR (4) AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUE."

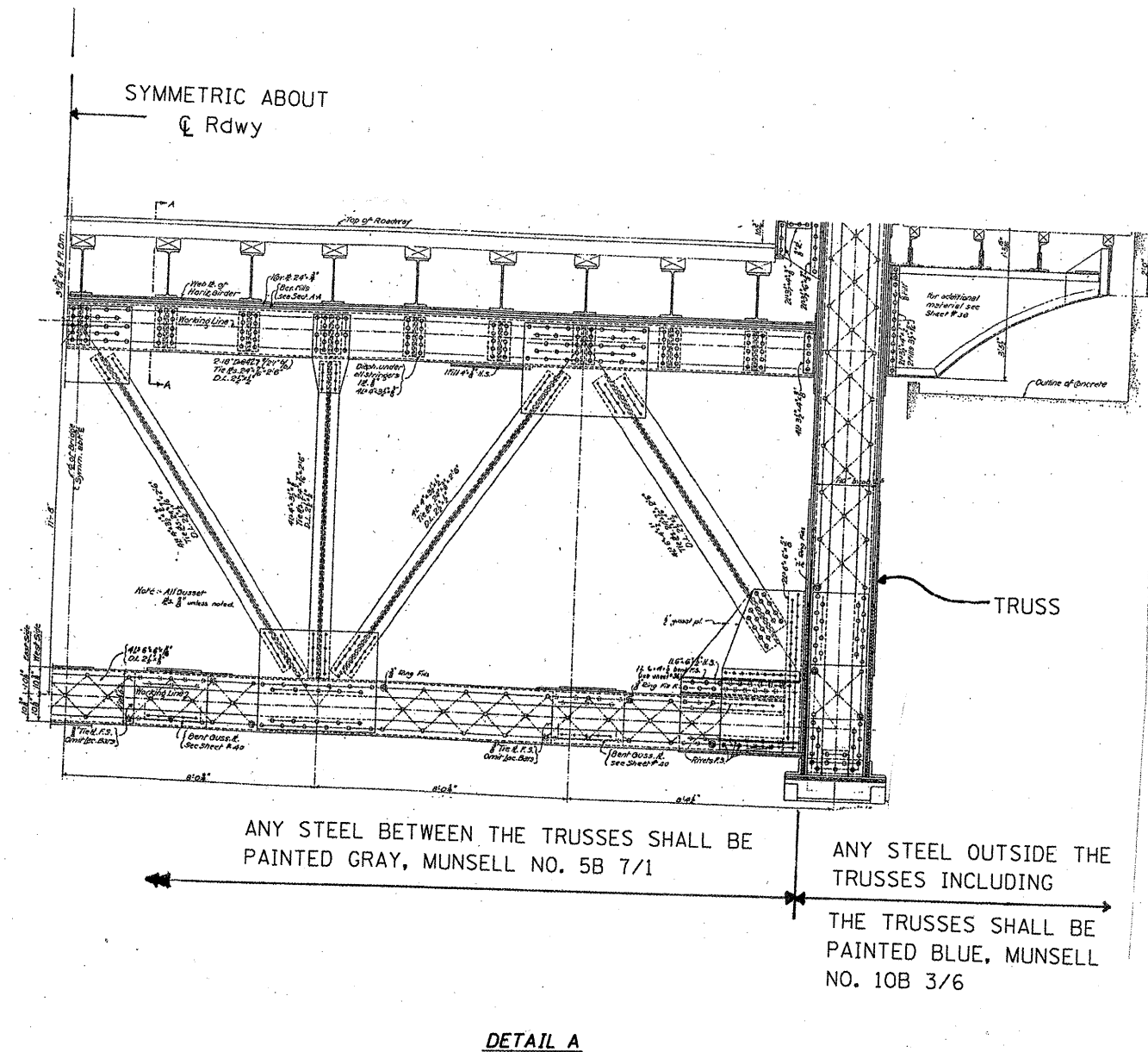
REMOVAL AND RE-INSTALLATION OF EXISTING MACHINERY ROOM FIBER GLASS WALL FOR ACCESS TO PAINTING IS INCLUDED IN THE COST OF "CLEANING AND PAINTING STEEL BRIDGE".

APPROACH SPAN AND FIXED SPANS

ALL EXISTING STEEL, INCLUDING HANDRAILS, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. ALL EXISTING STEEL INCLUDING HANDRAILS SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 - OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES AND BEARING DEVICES SHALL BE GRAY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL COAT FOR THE EXTERIOR AND TOP AND BOTTOM OF THE BOTTOM FLANGE OF THE FASCIA BEAMS, HANDRAILS, MACHINERY ROOM DOORS AND BEARING DEVICES SHALL BE BLUE, MUNSELL NO. 10B 3/6.

BASCULE SPANS

ALL EXISTING STEEL, INCLUDING HANDRAILS, SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10. ALL EXISTING STEEL INCLUDING HANDRAILS SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 - OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL STEEL TRUSS SURFACES (SEE DETAIL A), INCLUDING HANDRAIL SHALL BE BLUE, MUNSELL NO. 10B 3/6. THE COLOR OF THE FINAL FINISH COAT FOR THE REMAINING STEEL FLOOR SYSTEM INCLUDING CATWALK, CROSS FRAMES AND LATERAL BRACING SHALL BE GRAY, MUNSELL NO. 5B 7/1.



DETAIL A

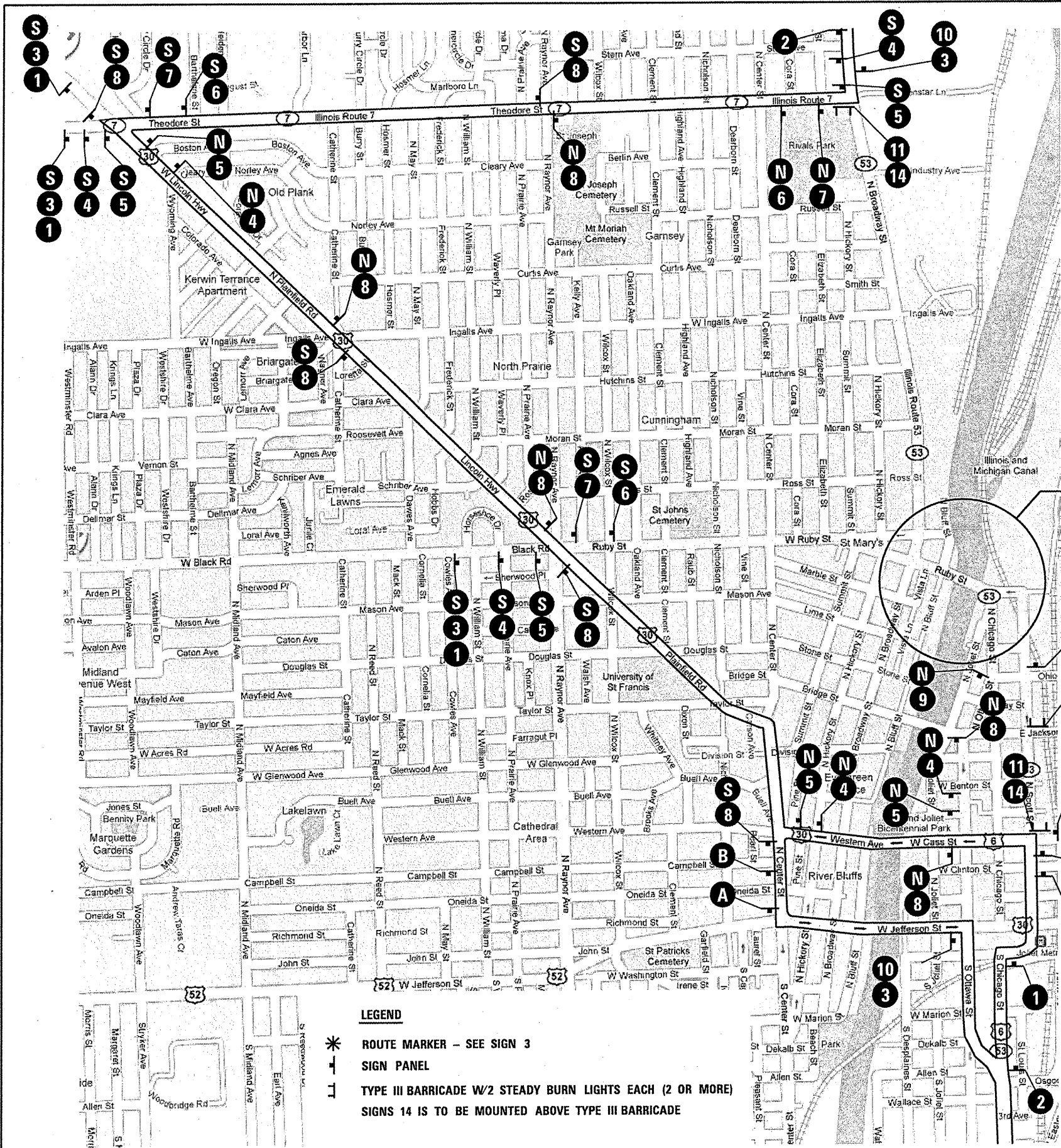
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| PLOT SCALE = 1/83.1218" / in. | | CHECKED - | REVISED - | | SCALE: SHEET NO. OF SHEETS STA. TO STA. | | | CONTRACT NO. 62714 | | | | |
| PLOT DATE = 8/9/2011 | | DATE - | REVISED - | | ILLINOIS FED. AID PROJECT | | | | | | | |

URBAN
100% STATE

| SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES | CONSTRUCTION TYPE CODE | | | |
|-----------------------|--|--------|------------------|------------------------|--|--|--|
| CODE NO | ITEM | UNIT | | 0014 | | | |
| Z0010501 | CLEANING AND PAINTING STEEL BRIDGE NO.1 | L SUM | 1 | 1 | | | |
| Z0007112 | CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES | L SUM | 1 | 1 | | | |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 4 | 4 | | | |
| 67100100 | MOBILIZATION | L SUM | 1 | 1 | | | |
| X0325204 | TIMBER SIDEWALK REMOVAL AND REPLACEMENT | L SUM | 1 | 1 | | | |
| X7010216 | TRAFFIC CONTROL AND PROTECTION, (SPECIAL) | L SUM | 1 | 1 | | | |
| Z0012754 | STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) | SO FT | 3 | 3 | | | |
| Z0015550 | DEBRIS REMOVAL | CU YD | 40 | 40 | | | |
| Z0030850 | TEMPORARY INFORMATION SIGNING | SO FT | 48 | 48 | | | |
| Z0068508 | STEEL GRID DECK REPAIRS | L SUM | 1 | 1 | | | |
| Z0076700 | TRUNNION BEARING GREASE GROOVE CLEANING | L SUM | 1 | 1 | | | |
| Z0033750 | MACHINERY BED BEARING GREASE GROOVE CLEANING | L SUM | 1 | 1 | | | |
| Z0027725 | GEAR REDUCER SERVICE | L SUM | 1 | 1 | | | |
| Z0007750 | BRIDGE TENDER HOUSE REHABILITATION | L SUM | 1 | 1 | | | |
| Z0029603 | HANDRAIL REPAIRS | L SUM | 1 | 1 | | | |
| X0327286 | SUBSTRUCTURE REPAIR (GROUT BAGS) | L SUM | 1 | 1 | | | |
| Z0069900 | SUMP PUMPS REPLACEMENT | L SUM | 1 | 1 | | | |
| Z0003801 | BEARING RETROFIT | L SUM | 1 | 1 | | | |
| Z0073500 | TEMPORARY SUPPORT SYSTEM | L SUM | 1 | 1 | | | |

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Rev. 9-13-11



| | | | | | |
|---|---|----|-------------------------------|----------|--|
| 1 | | 7 | | 15 | |
| | W20-2(O)-48 W/ TYPE 2 FLASHING LIGHT | | M4-8(O) 3015 M6-1(O) 3018 | | W4-2(O)-48 |
| 2 | | 8 | | 16 | |
| | W20-3(O)-48 W/ TYPE 2 FLASHING LIGHT | | M4-8(O) 3015 M6-3(O) 3018 | | R11-1(O) 2418 |
| 3 | | 9 | | 17 | |
| | MI-1100 | | M4-8(O) 3015 M6-2R(O) 3018 | | W20-5R(O)-48 W/ TYPE 2 FLASHING LIGHT |
| 4 | | 10 | | N | |
| | M4-8(O) 3015 M5-1R(O) 3018 | | M4-8A(O) 3015 | | M3-1 2412 |
| 5 | | 11 | | S | |
| | M4-8(O) 3015 M6-1(O) 3018 | | R11-3 6030 | | M3-3 2412 |
| 6 | | 12 | | | |
| | M4-8(O) 3015 M6-1L(O) 3018 | | R11-4 6030 | EXISTING | |
| | | 13 | | | |
| | | | R11-2B 4830 | EXISTING | |
| | | 14 | | | |
| | | | M4-10(O) 4818 | EXISTING | |

LEGEND

- * ROUTE MARKER - SEE SIGN 3
- SIGN PANEL
- TYPE III BARRICADE W/2 STEADY BURN LIGHTS EACH (2 OR MORE)
- SIGNS 14 IS TO BE MOUNTED ABOVE TYPE III BARRICADE

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USER NAME = mdjya
sht-plan.dgn
PLOT SCALE = 103.1218 1/1
PLOT DATE = 7/8/2011

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| DATE - | REVISED - |

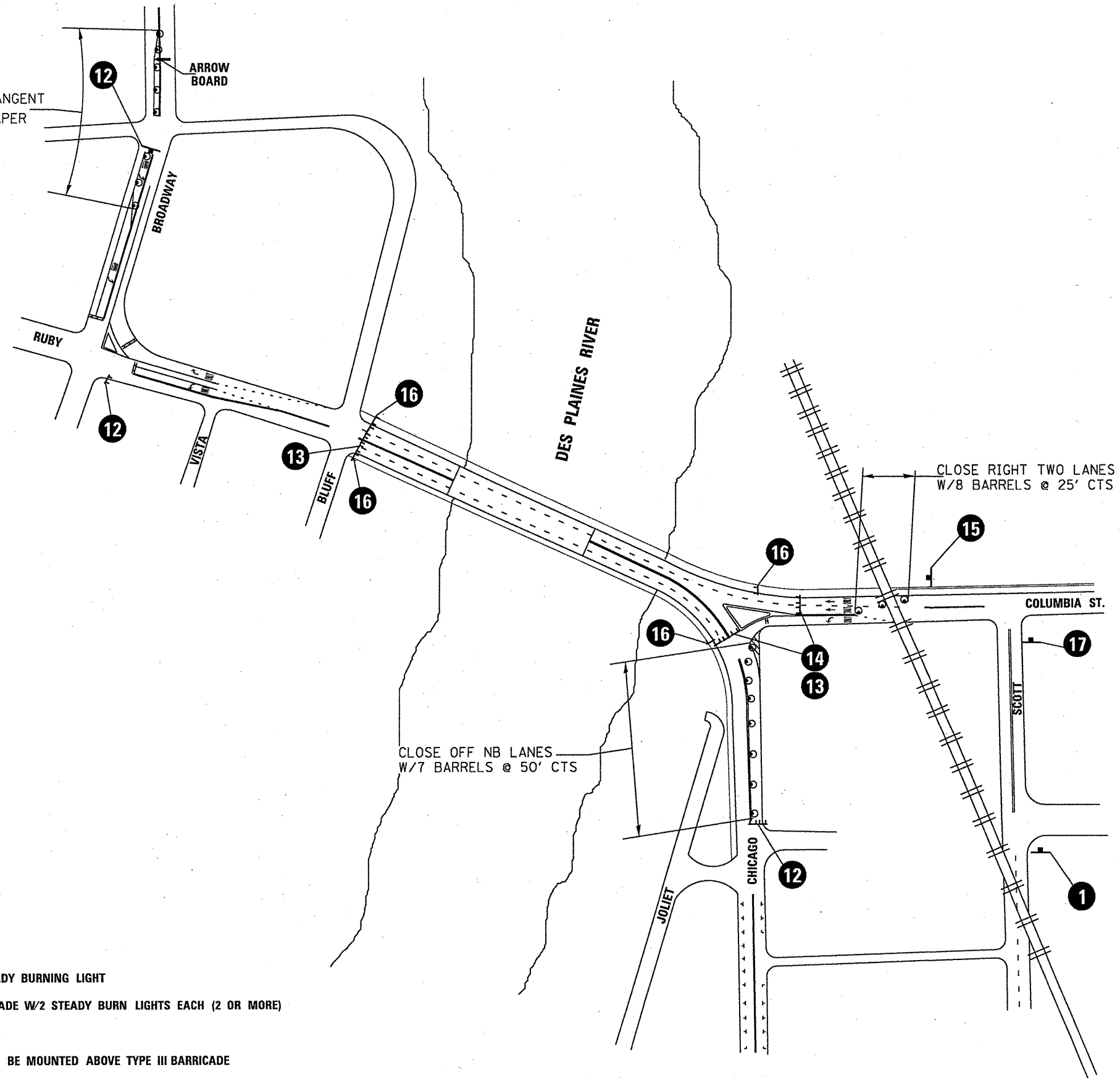
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC DETOUR

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------------|-------------|-----------------|-------------|
| F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 6 |
| CONTRACT NO. 62714 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

15 BARRELS @ 25' CTS IN TANGENT
 @ 10' CTS IN TAPER



LEGEND

- BARREL W/STEADY BURNING LIGHT
- ⌌ TYPE III BARRICADE W/2 STEADY BURN LIGHTS EACH (2 OR MORE)
- ⌌ SIGN PANEL
- SIGNS 14 IS TO BE MOUNTED ABOVE TYPE III BARRICADE

DETAIL C

FILE NAME =
 c:\pw_work\pwrdat\mdyje\0148931\0111504

USER NAME = mdyje
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 DATE -

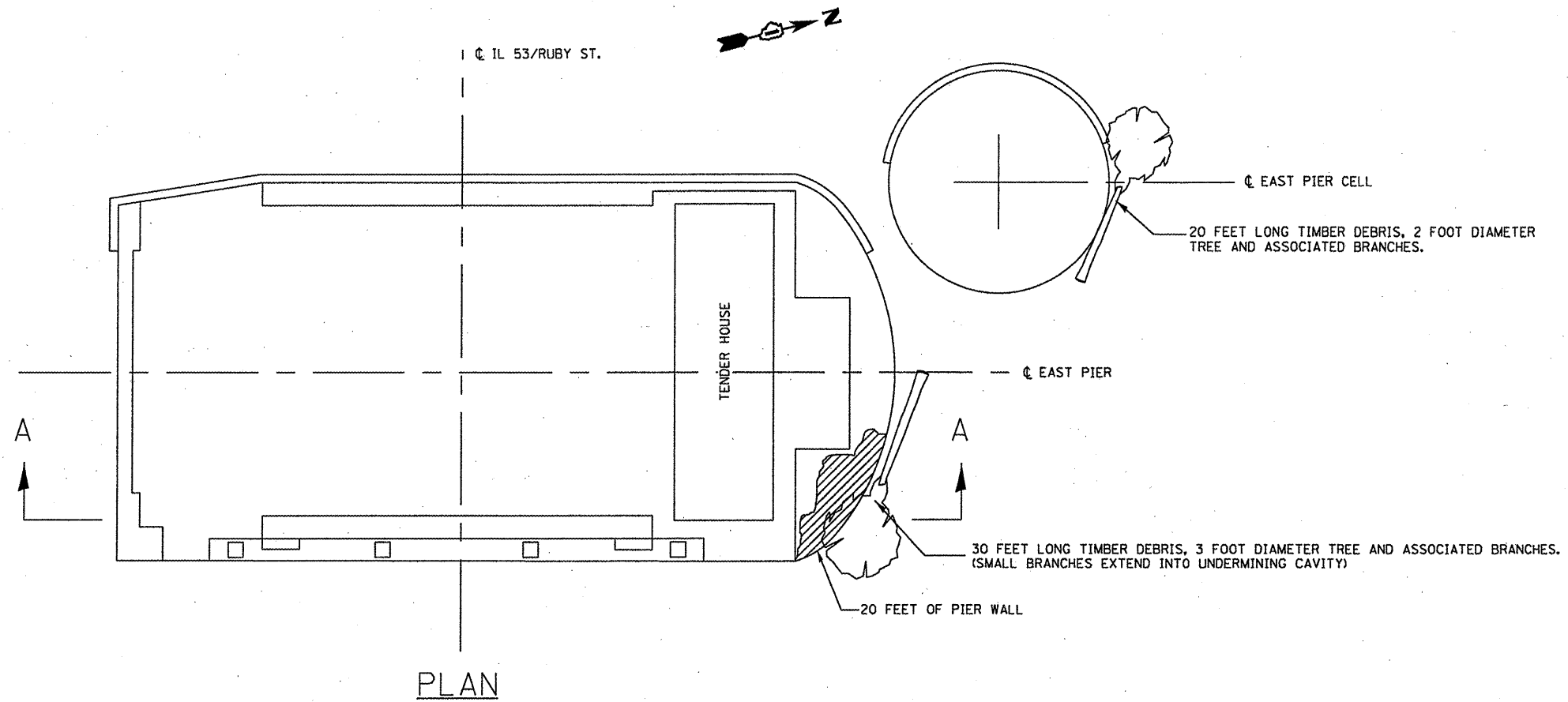
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

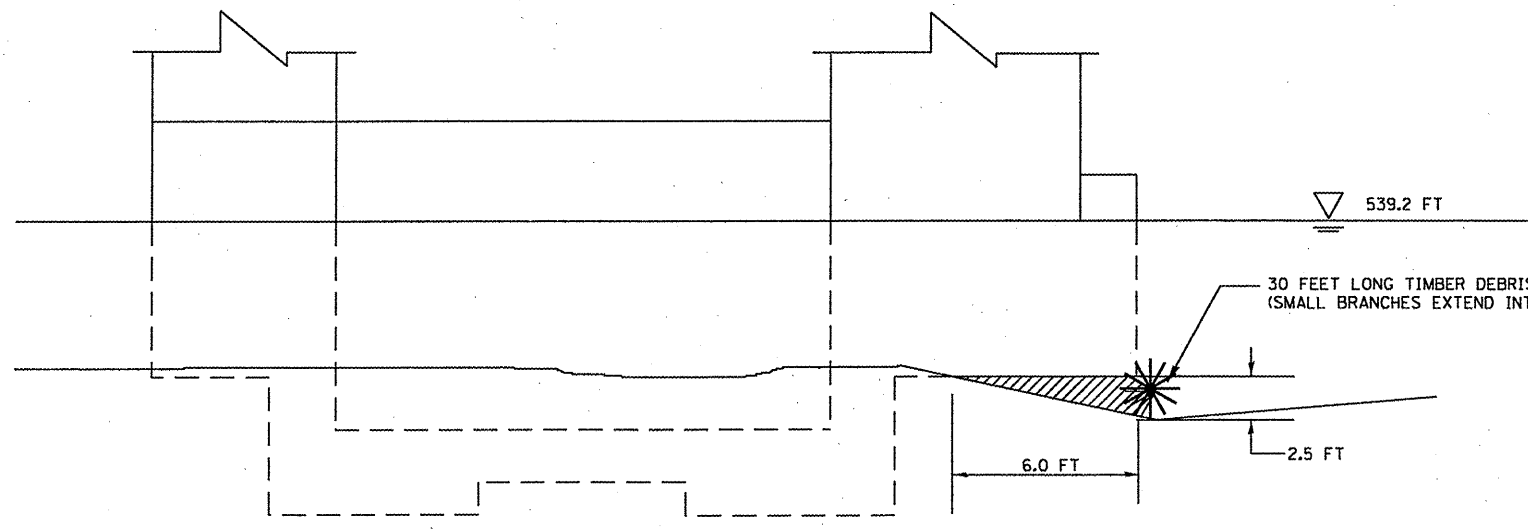
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SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|--------|--------------|-----------|
| 112 | M-BDR-1 | WILL | 66 | 7 |
| CONTRACT NO. 62714 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



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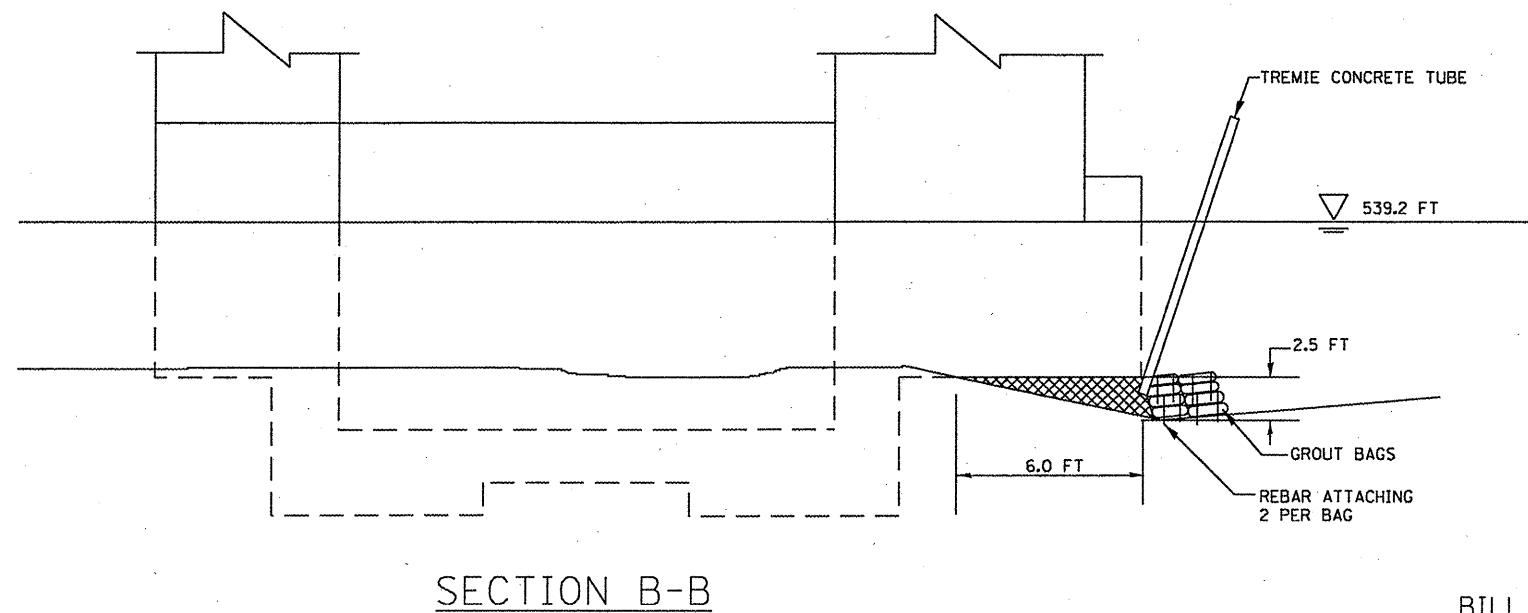
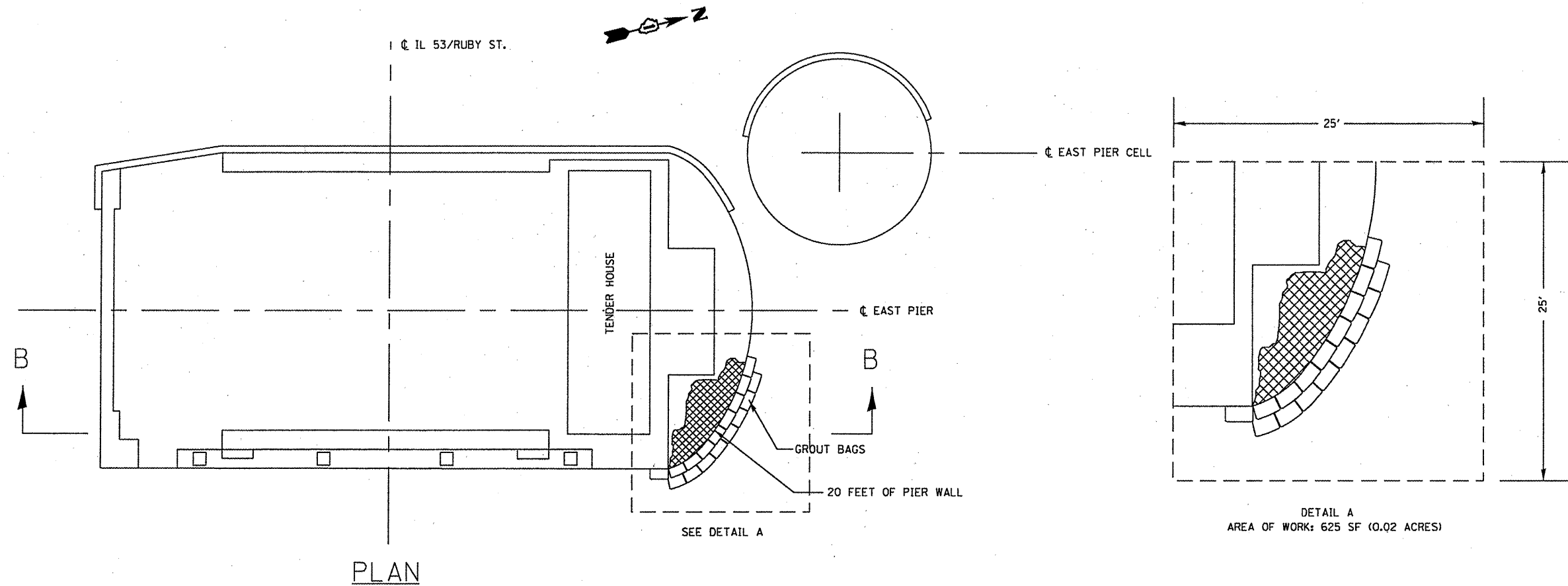
SECTION A-A


UNDERMINED AREA

NOTES:
 CONTRACTOR WILL HAVE THE OPTION TO DO WORK FROM EITHER THE BRIDGE OR A BARGE.
 CONTRACTOR WILL NOT BE ALLOWED TO DO ANY EXCAVATION AT THE WORK AREA

BILL OF MATERIALS

| ITEM | UNIT | QUANTITY |
|----------------|-------|----------|
| DEBRIS REMOVAL | CU YD | 40 |



 UNDERMINED AREA TO BE FILLED WITH TREMIE CONCRETE

NOTES:

CONTRACTOR WILL HAVE THE OPTION TO DO WORK FROM EITHER THE BRIDGE OR A BARGE.

CONTRACTOR WILL NOT BE ALLOWED TO DO ANY EXCAVATION AT THE WORK AREA

PLACE GROUT BAGS TO AN ELEVATION ABOVE THE BOTTOM OF THE FOOTING SUFFICIENT TO ACT AS FORM DURING PLACEMENT OF TREMIE CONCRETE

COST OF TREMIE CONCRETE INCLUDED IN THE COST OF SUBSTRUCTURE REPAIR (GROUT BAGS)

BILL OF MATERIALS

| ITEM | UNIT | QUANTITY |
|----------------------------------|-------|----------|
| SUBSTRUCTURE REPAIR (GROUT BAGS) | L SUM | 1 |

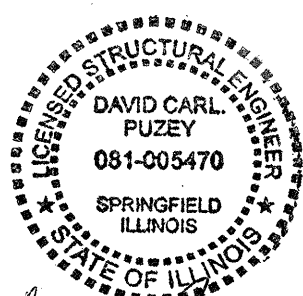
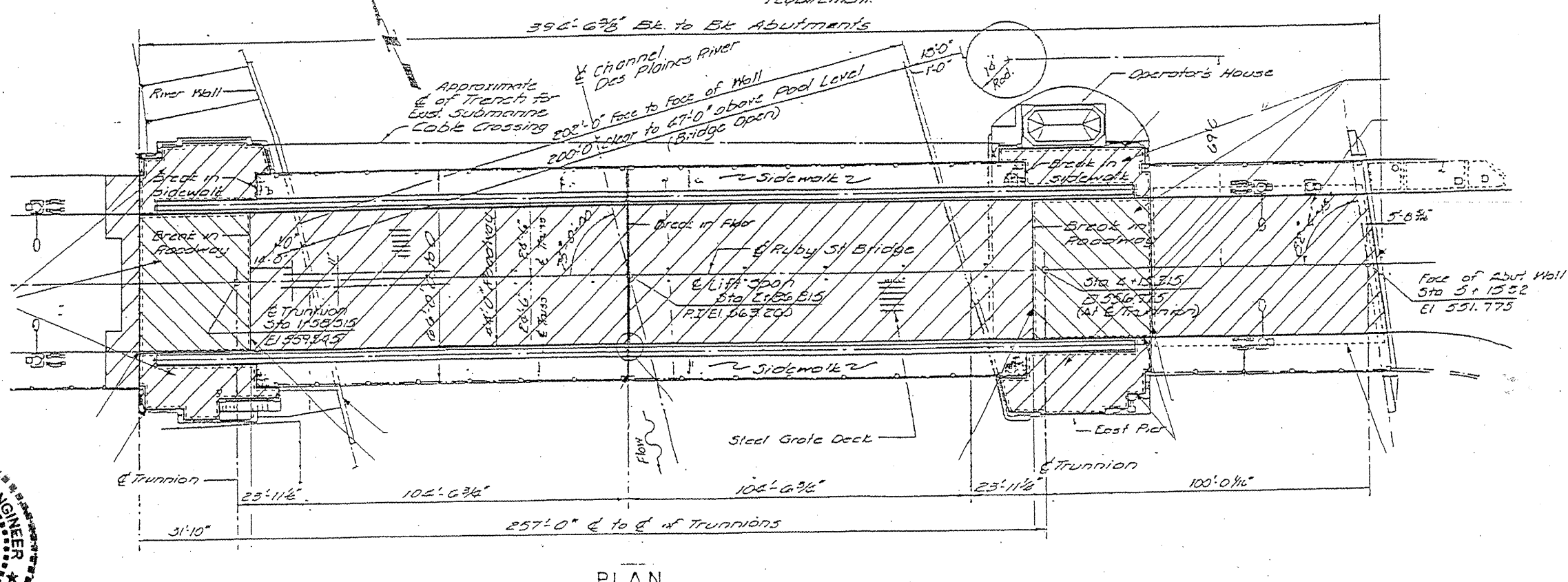
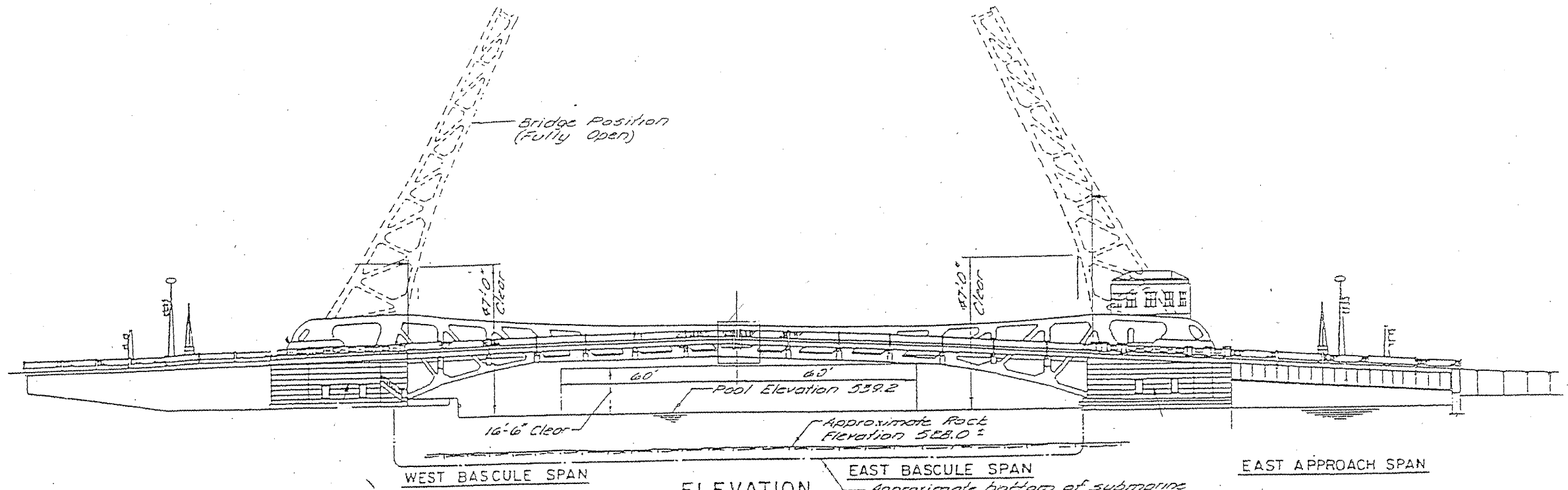
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| PLOT SCALE = 1/8" = 1' / in. | CHECKED - | REVISED - | REVISED - |
| PLOT DATE = 7/8/2011 | DATE - | REVISED - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCOUR REPAIRS
RUBY ST OVER DES PLAINES RIVER**

SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------------|-------------|-----------------|-------------|
| F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 9 |
| CONTRACT NO. 62714 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



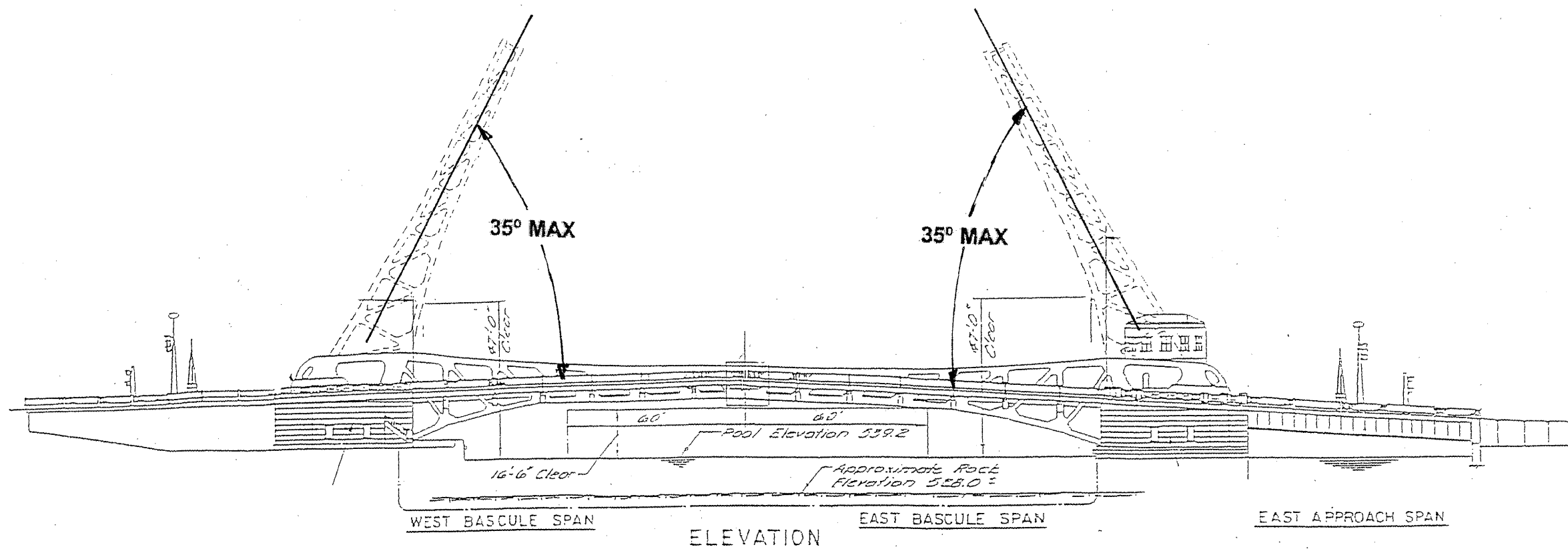
David Carl Puzey 9/12/11
Expires 11/30/12

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| | | DRAWN - | REVISED - |
| | | CHECKED - | REVISED - |
| | | DATE - | REVISED - |
| PLOT SCALE = 1/8" = 1'-0" | | | |
| PLOT DATE = 6/23/2011 | | | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | | | | |
|------------------------------------|--------------------------|---------------------|-------------------|---|-------------------|----------------|
| RUBY STREET OVER DES PLAINES RIVER | | F.A.P. R.T.E. = 112 | SECTION = M-BDR-1 | COUNTY = WILL | TOTAL SHEETS = 66 | SHEET NO. = 9A |
| SCALE: | SHEET NO. 1 OF 30 SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT CONTRACT NO. 62714 | | |

Sheet added 09/12/2011 VHV



NOTES FOR BRIDGE PAINTING

The maximum raised bridge position for the bridge while it is wrapped for containment during blasting and painting operations is 35°. High speed winds are not permitted when the bridge is raised and covered for blasting and painting which could affect the safety of personnel and the structural integrity of the bridge itself.

During any blasting or painting operations when the bridge is contained by tarpaulins or other coverings, the bridge must be closed to the down (0°) position if wind speeds are forecasted by NOAA or other official source to be gusting above 45 mph. Closure to the 0° position shall be accomplished at least one (1) hour before the storm is projected to affect the Joliet area.

Blasting and painting can only be accomplished on one leaf at a time. Under no circumstances can the trunnion bearing cap or main pinion shaft removal and replacement (as shown on other sheets in this contract) be performed on the same leaf at the same time as blasting and painting. Each operation must be done separately of the other, and on opposite leaves of the bridge.

During blasting and painting, the bridge leaf that is being blasted or painted must be operational.

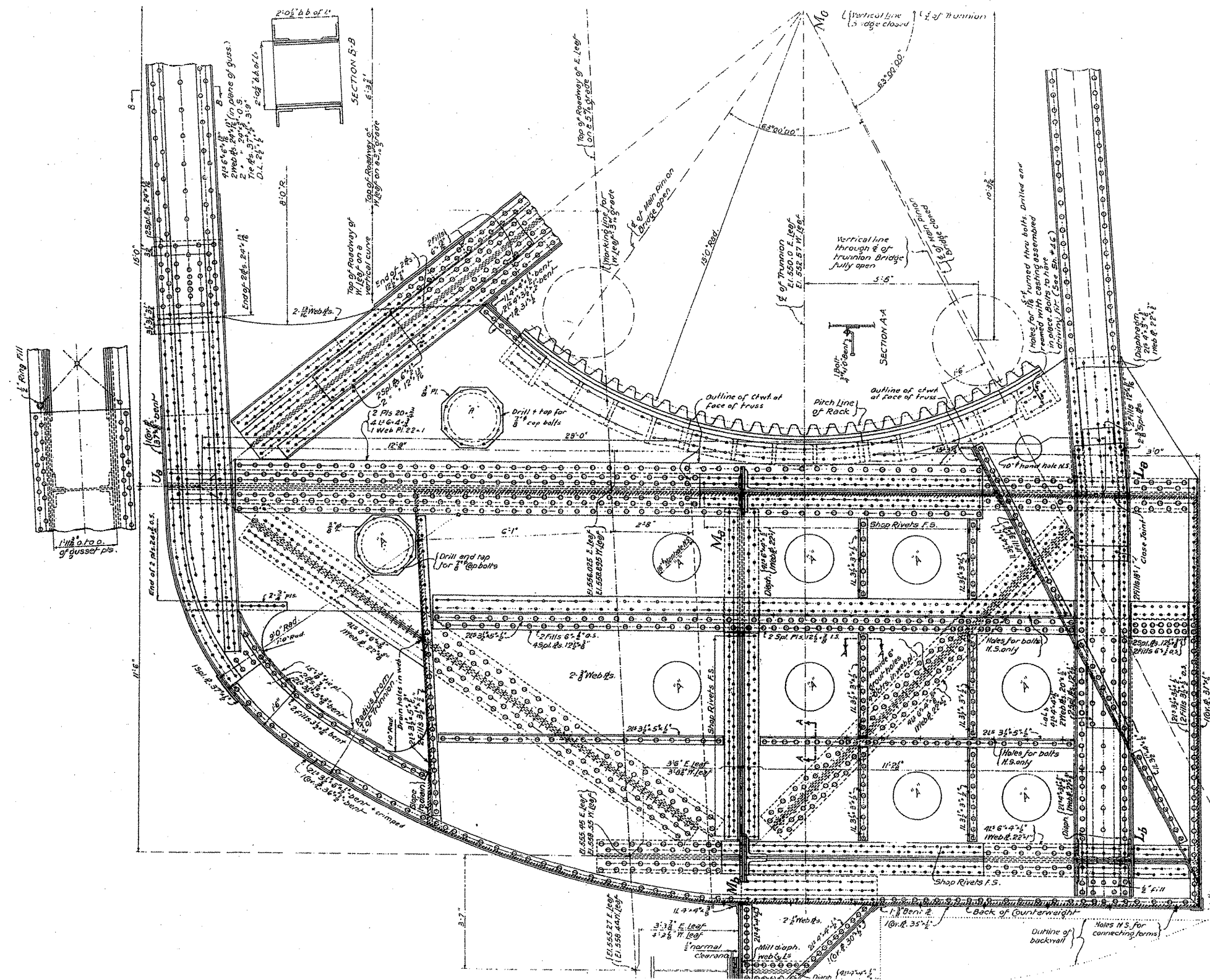
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| FILE NAME # | USER NAME # midjje | DESIGNED - | REVISED - |
| PLT SCALE = 1/8" = 1'-0" | CHECKED - | REVISED - | DATE |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | |
|------------------------------------|-------------------------------------|
| RUBY STREET OVER DES PLAINES RIVER | SN 099-8901 |
| SCALE: | SHEET NO. OF 30 SHEETS STA. TO STA. |

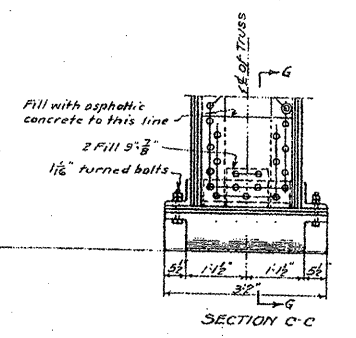
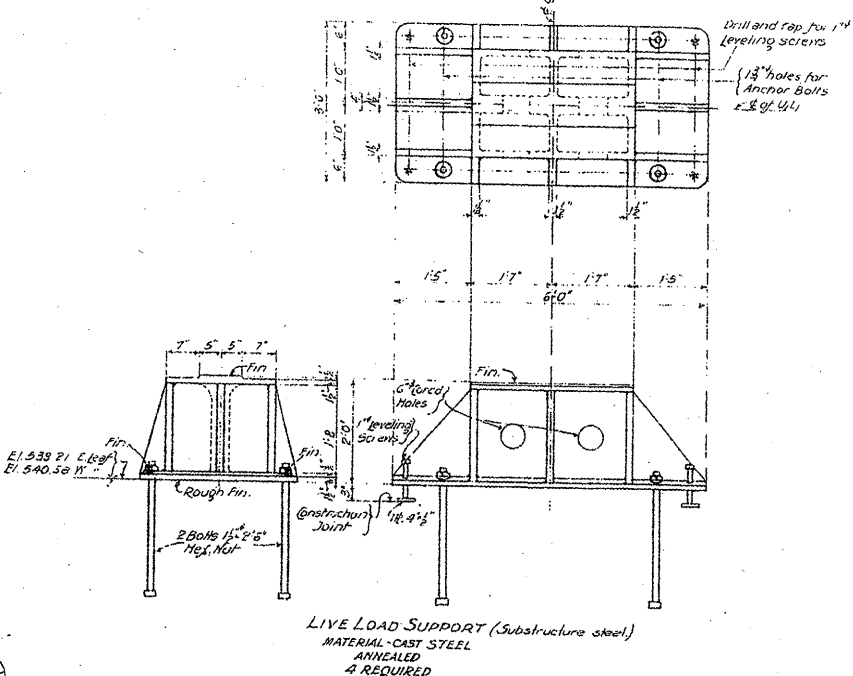
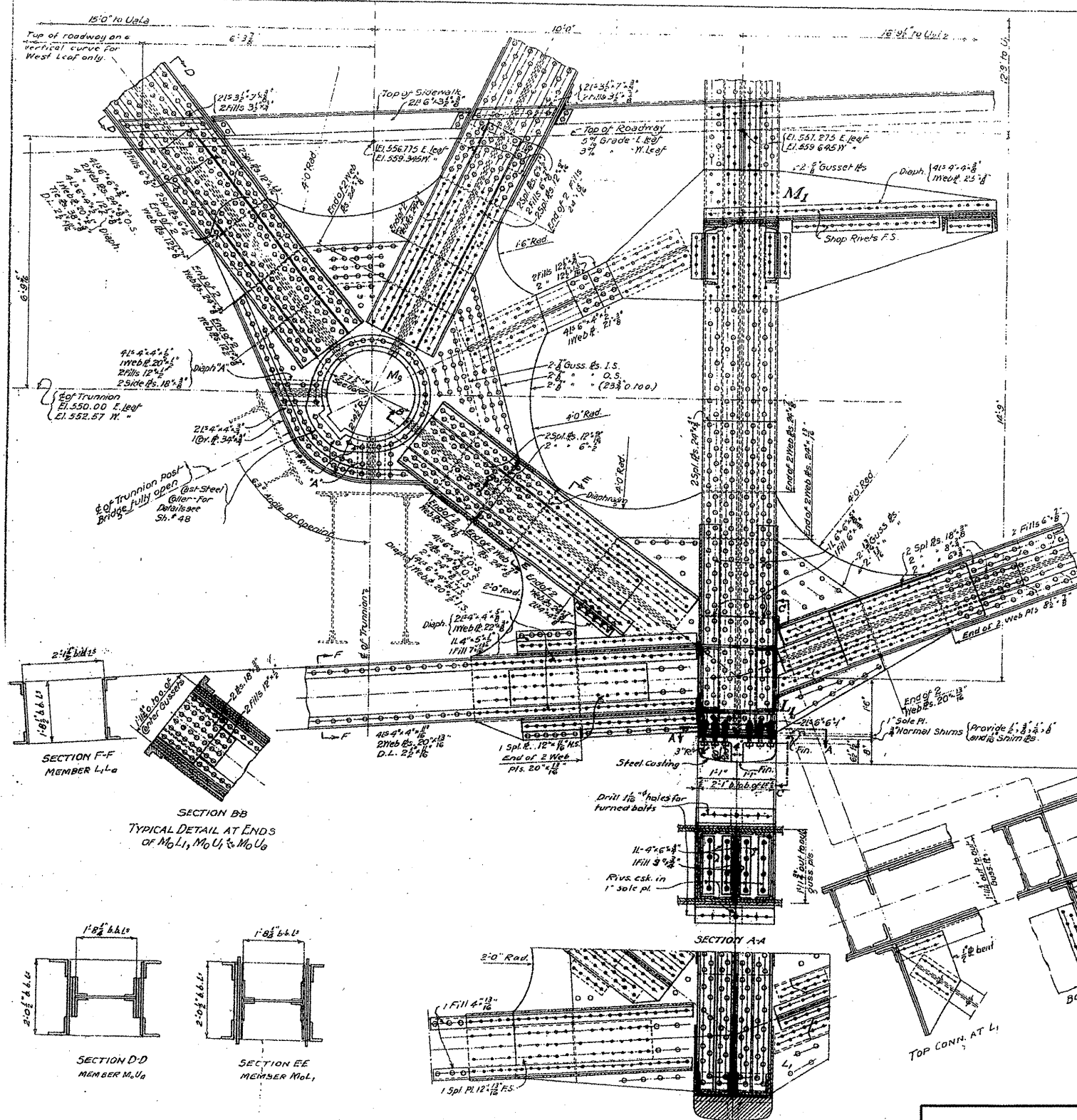
| | | | | |
|---------------------------|---------|--------|--------------|--------------------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 112 | M-BOP-1 | WILL | 66 | 10 |
| ILLINOIS FED. AID PROJECT | | | | CONTRACT NO. 62714 |

▲ SHEET REPLACED 09/12/2014 VHV



FOR INFORMATION ONLY

| | | | | | | | | | | | |
|---|----------------------|------------|-----------|---|---|---------------------------|---------|--------|--------------|-----------|--|
| FILE NAME = | USER NAME = mdyj | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER SN 099-9901 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| at:\pwork\PM100T\MIDYJA\48148931\dl1150 | aa.dgn | DRAWN - | REVISED - | | | 112 | M-BDR-1 | WILL | 66 | 12 | |
| PLOT SCALE = 1/8" = 1' IN. | PLT DATE = 6/26/2009 | CHECKED - | REVISED - | | | CONTRACT NO. 62714 | | | | | |
| | | DATE - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | |
| | | | | | SCALE: | SHEET NO. 3 OF 30 SHEETS | | STA. | TO STA. | | |



General Notes
 Rivets 2" unless noted.
 Open holes 1/2" unless noted.
 Bare holes for 2 1/2" trunnion
 with collars riveted in place.
 Trunnion to have high driving
 fit on web p.l.s. and diaphragms.

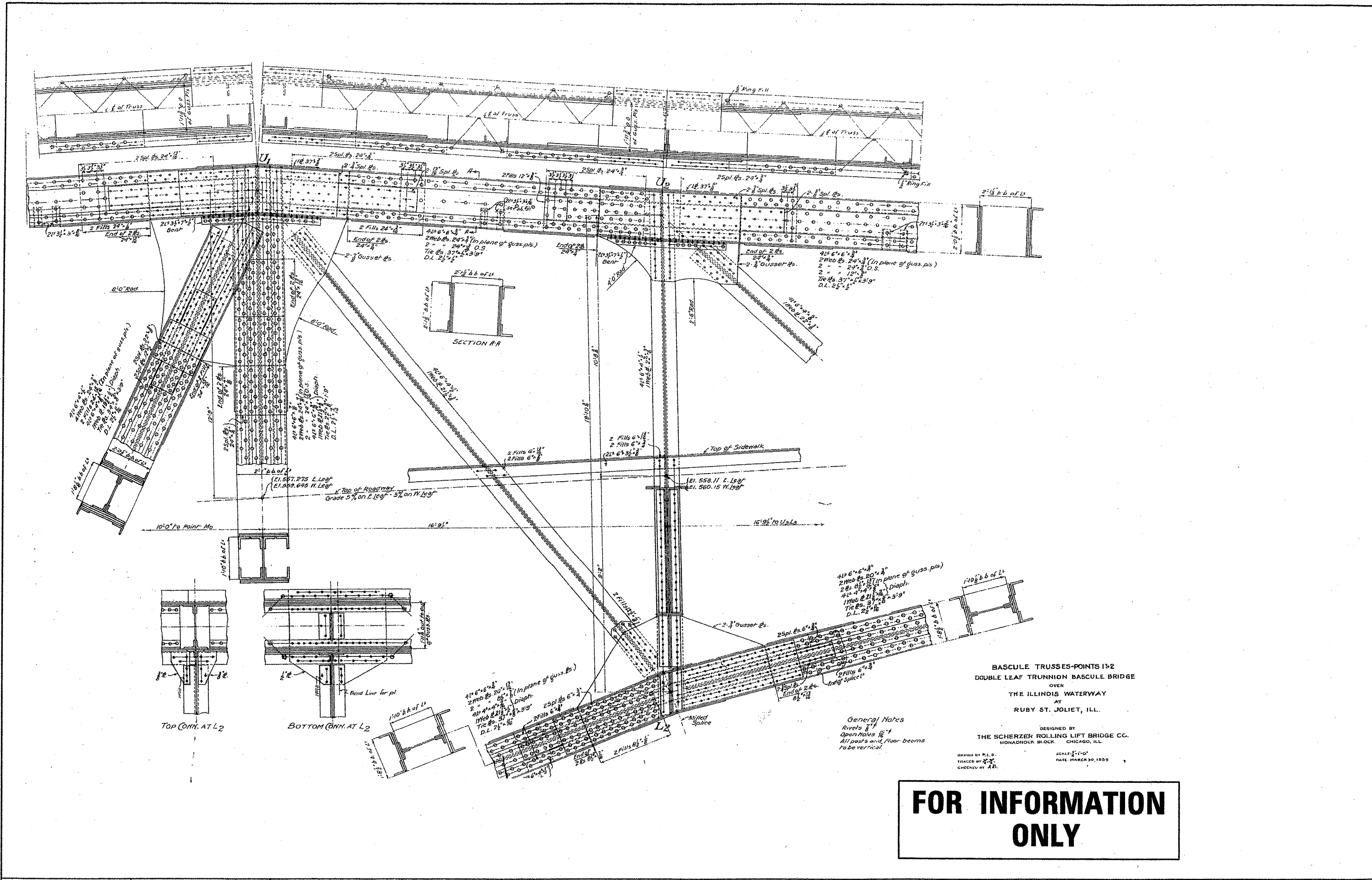
BASCULE TRUSSES - POINTS O & I
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET ILL.

DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MUMFORD BLDG. CHICAGO, ILL.

DRAWN BY P.L.D. SCALE 1/2" = 1'-0"

FOR INFORMATION ONLY

| | | | | | | | | | | | | | |
|---|--------------------|------------|-----------|---|---|--------------------------|------|-------------|---------|---------|--------------|---------------------------|----|
| FILE NAME = | USER NAME = midyjo | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER SN 099-9901 | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| ca:\pwork\PWIDOT\MIDYJA\0148931\val1150 | ee.dgn | DRAWN - | REVISED - | | SCALE: | SHEET NO. 4 OF 30 SHEETS | STA. | TO STA. | 112 | M-BDR-1 | WILL | 66 | 13 |
| | | CHECKED - | REVISED - | | | | | | | | | CONTRACT NO. 62714 | |
| | | DATE - | REVISED - | | | | | | | | | ILLINOIS FED. AID PROJECT | |



BASCULE TRUSSES-POINTS 1+2
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET, ILL.

DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONADNOCK BLOCK CHICAGO, ILL.

General Notes
 Rivets 5/8"
 Open Holes 1/4"
 All part's end floor beams
 to be vertical.

SCALE: 1" = 10'
 DATE: MARCH 30, 1939

FOR INFORMATION ONLY

FILE NAME =
 C:\pwwork\pwwid\midyja\0148931\d1150

USER NAME = midyja
 PLOT SCALE = 1/8" = 10' IN.
 PLOT DATE = 6/26/2009

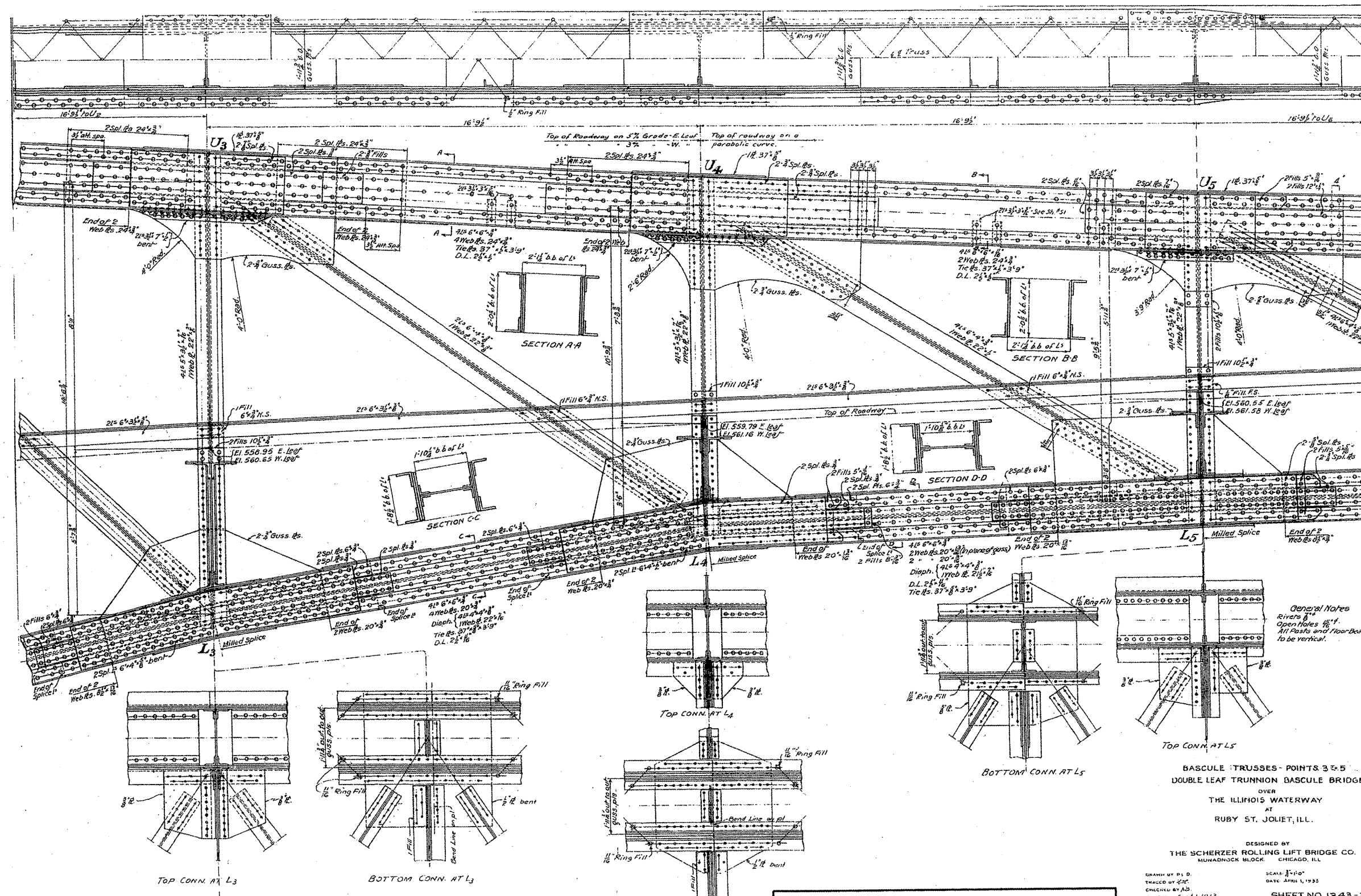
| | |
|------------|-----------|
| DESIGNED - | REVISED - |
| DRAWN - | REVISED - |
| CHECKED - | REVISED - |
| DATE - | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER
 SN 099-9901
 SCALE: SHEET NO. 5 OF 30 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|--------|--------------|-----------|
| 112 | M-BDR-1 | WILL | 66 | 14 |

CONTRACT NO. 62714
 ILLINOIS FED. AID PROJECT



FOR INFORMATION ONLY

General Notes
 Rivets 3/4"
 Open Holes 1/2"
 All Posts and Floor Beams
 to be vertical.

BASCULE TRUSSES - POINTS 3 & 5
DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET, ILL.

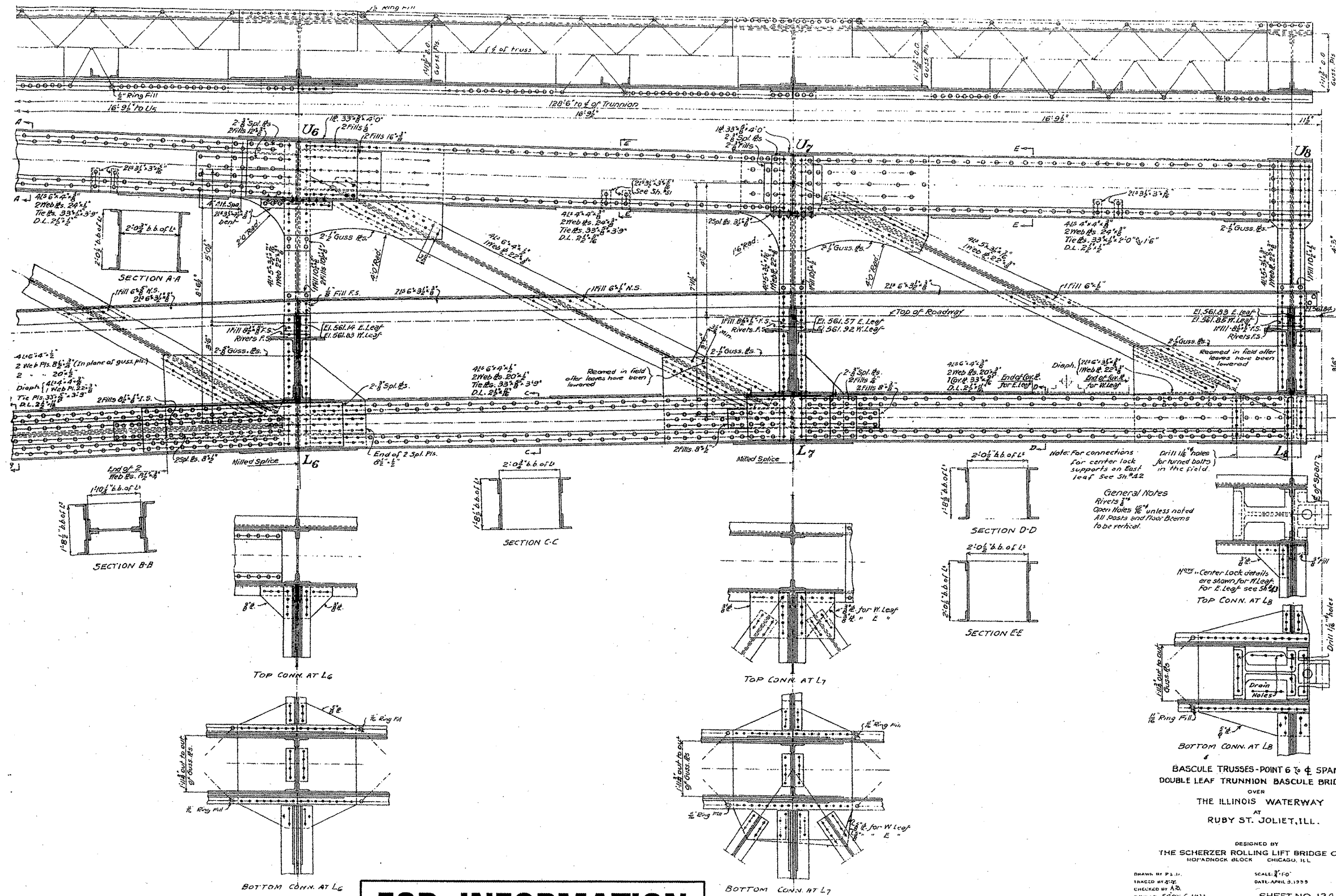
DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MUMFORD BLOCK CHICAGO, ILL.

DRAWN BY P. D.
 TRACED BY K. C.
 CHECKED BY A. S.

SCALE: 3/4"=1'-0"
 DATE: APRIL 1, 1935

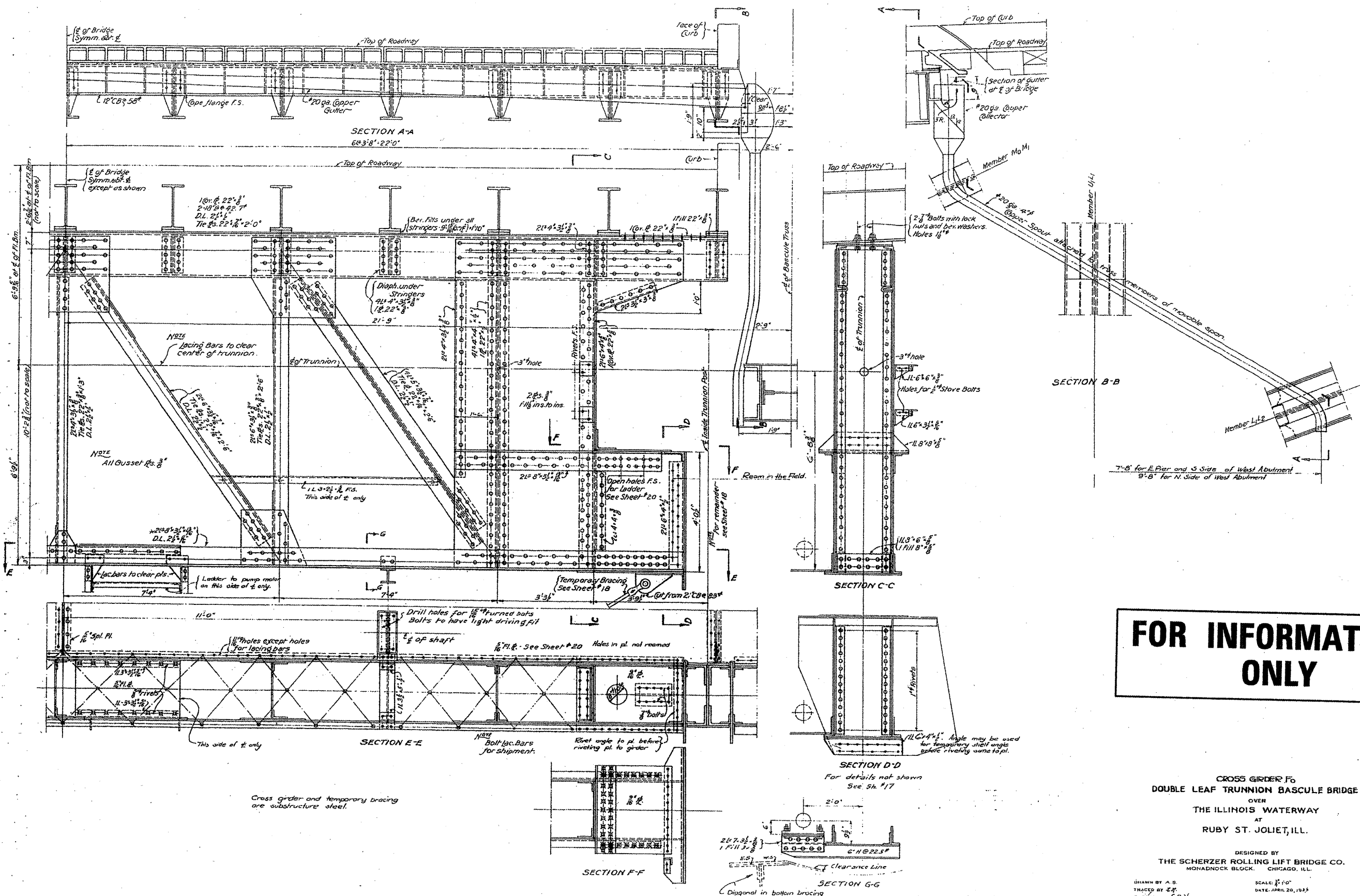
SHEET NO. 1543-92

| | | | | | | | | | | | |
|---|------------------------------|------------|-----------|---|---|--------------------|--------------------|--------------------|--------------------|-----------------|--|
| FILE NAME : c:\pwork\pwork\mtdy\jva\0148931\d11150 | USER NAME : midyje oe.dgn | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER SN 099-9901 | F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 15 | |
| PLOT SCALE : 1/8"=1'-0" / IN. | PLOT DATE : 6/26/2009 | DRAWN - | REVISED - | SCALE: | SHEET NO. 6 OF 30 SHEETS | STA. TO STA. | | CONTRACT NO. 62714 | | | |
| | | CHECKED - | REVISED - | ILLINOIS FED. AID PROJECT | | | | | | | |
| | | DATE - | REVISED - | | | | | | | | |



FOR INFORMATION ONLY

| | | | | | | | | | | |
|---|-------------------------------|------------|-----------|---|---|--------------------------|-----------------|-------------|---------------------------|--------------|
| FILE NAME = | USER NAME = midyja | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER SN 099-9901 | F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 16 |
| en:\pwwork\pwi007\MIDYJA\0148931\d11150 | ea.dgn | DRAWN - | REVISED - | | | | | | | |
| | PLOT SCALE = 1/83.1218" / IN. | CHECKED - | REVISED - | | SCALE: | SHEET NO. 7 OF 30 SHEETS | STA. | TO STA. | CONTRACT NO. 62714 | |
| | PLOT DATE = 6/26/2009 | DATE - | REVISED - | | | | | | ILLINOIS FED. AID PROJECT | |



FILE NAME =
ca:\pwwork\PM1007\MIDYJA\00148931\dl1150

USER NAME = mdyja
aa.dgn
PLOT SCALE = 1/8" = 1'-0"
PLOT DATE = 6/26/2009

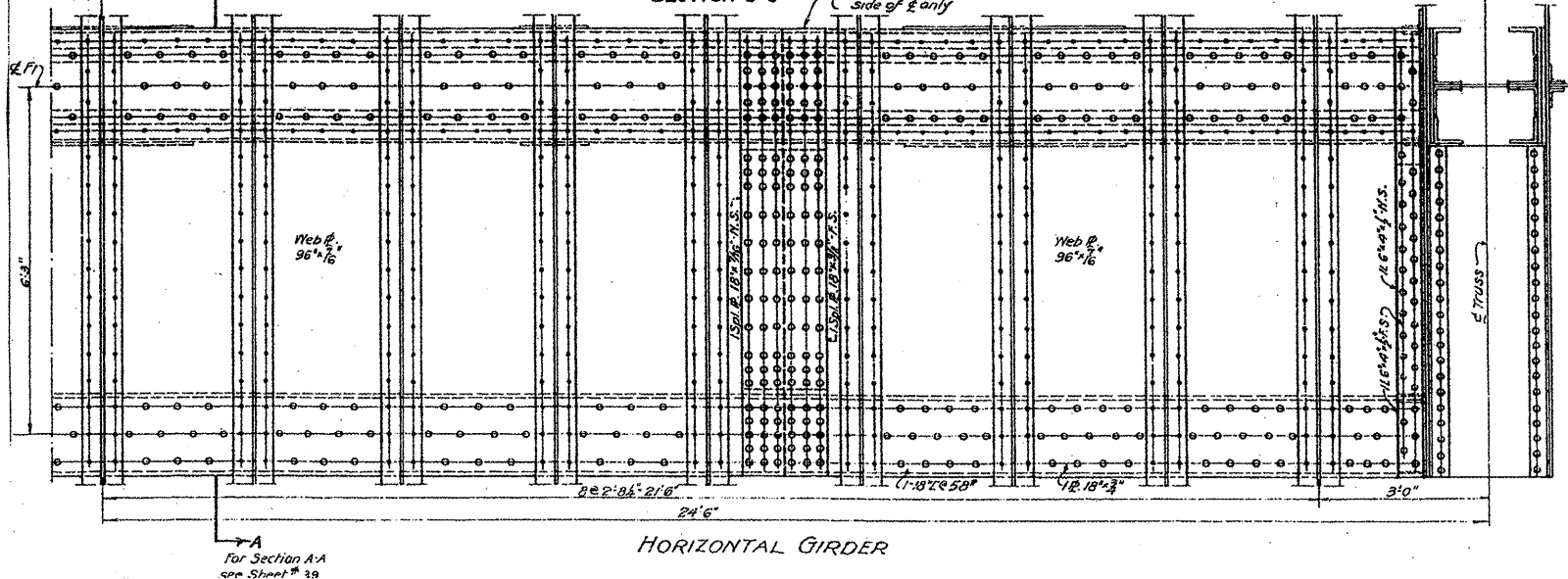
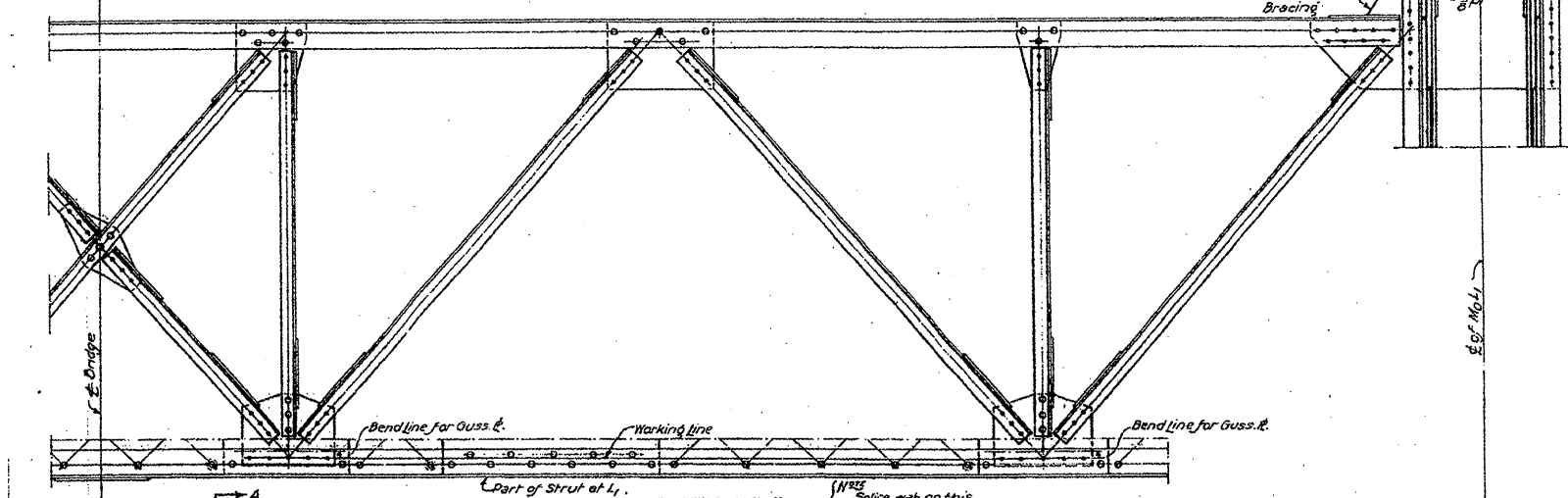
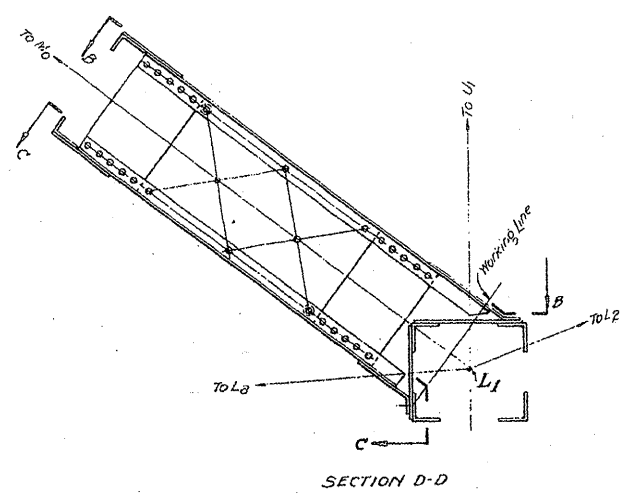
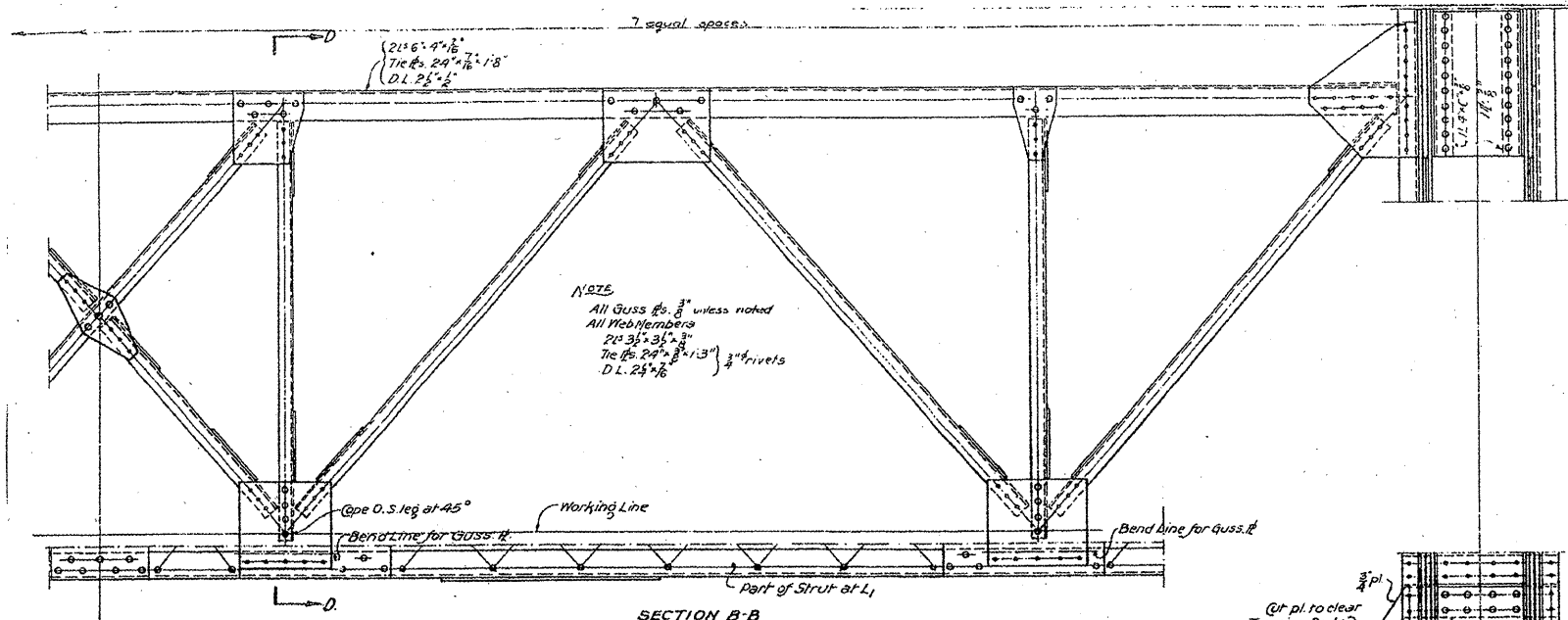
| | |
|------------|-----------|
| DESIGNED - | REVISED - |
| DRAWN - | REVISED - |
| CHECKED - | REVISED - |
| DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER
SN 099-9901

SCALE: SHEET NO. 8 OF 30 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------------|-------------|--------------------|--------------|
| F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 27 |
| | | | CONTRACT NO. 62714 | |
| ILLINOIS FED. AID PROJECT | | | | |



General Notes
 Rivets $\frac{3}{4}$ " unless noted
 Open Holes $\frac{1}{2}$ " unless noted
 For reaming of holes see specifications.

FOR INFORMATION ONLY

HORIZONTAL GIRDER
 AND
 BRACING M₀L₁
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST., JOLIET, ILL.

DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONADNOCK BLOCK CHICAGO, ILL.

DRAWN BY A.D.
 TRACED BY G.C.
 SCALE: $\frac{1}{4}$ " = 1'-0"
 DATE: APR. 20, 1928

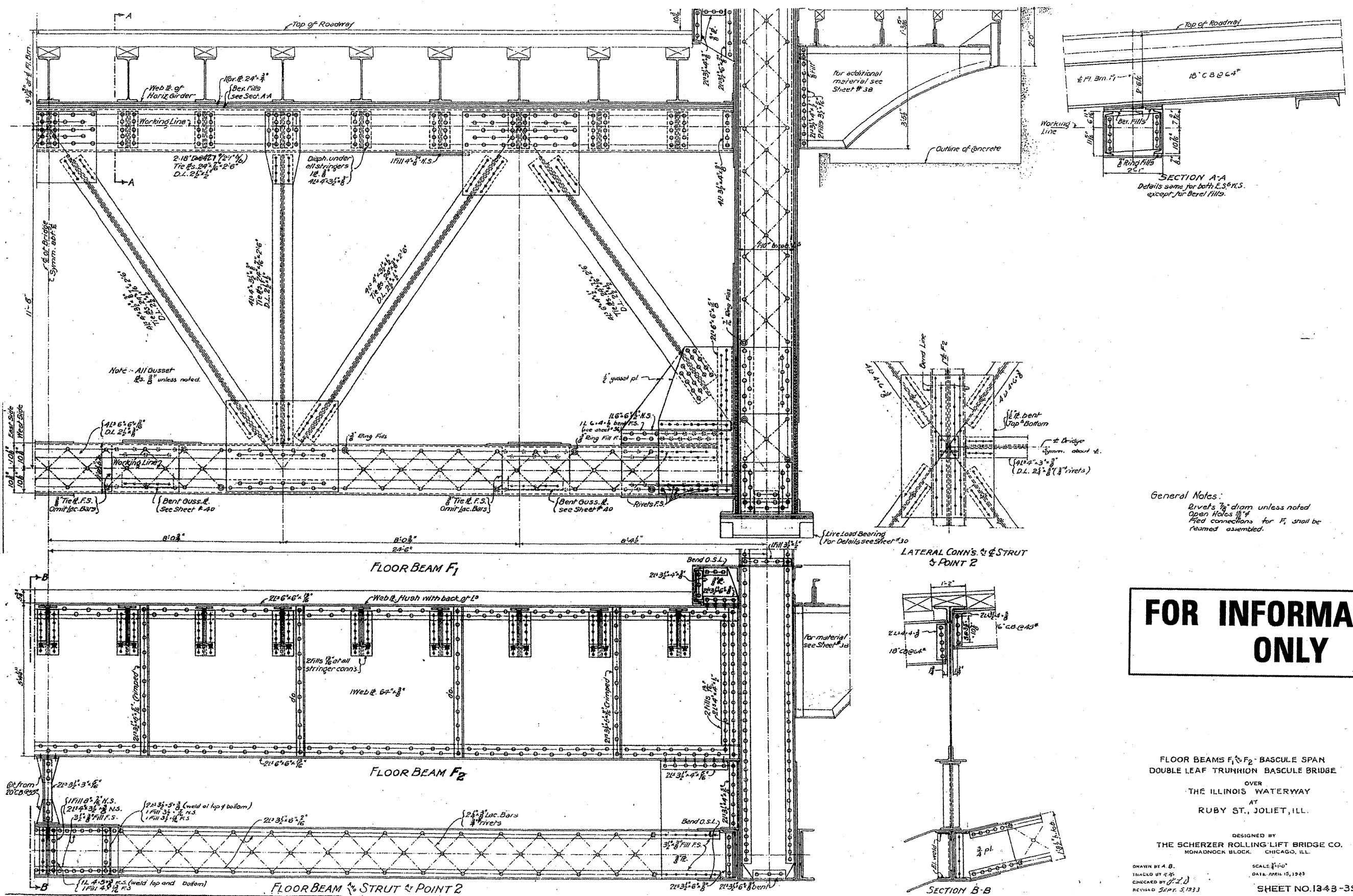
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|-------------------------------|--------------------|------------|-----------|
| FILE NAME = | USER NAME = midjjo | DESIGNED - | REVISED - |
| ea.dgn | aa.dgn | DRAWN - | REVISED - |
| PLOT SCALE = 1/32" = 1' / IN. | | CHECKED - | REVISED - |
| PLOT DATE = 6/26/2009 | | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER
SN 099-9901

SCALE: SHEET NO. 9 OF 30 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------------|-------------|--------------------|--------------|
| F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 18 |
| | | | CONTRACT NO. 62714 | |
| ILLINOIS FED. AID PROJECT | | | | |



General Notes:
 Rivets 7/8" diam unless noted
 Open Holes 1/8"
 Field connections for F₁ shall be
 returned assembled.

FOR INFORMATION ONLY

FLOOR BEAMS F₁ & F₂ - BASCULE SPAN
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST., JOLIET, ILL.

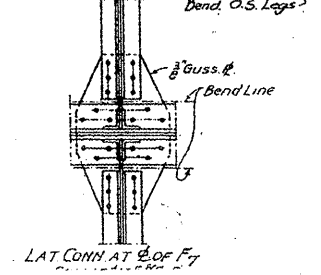
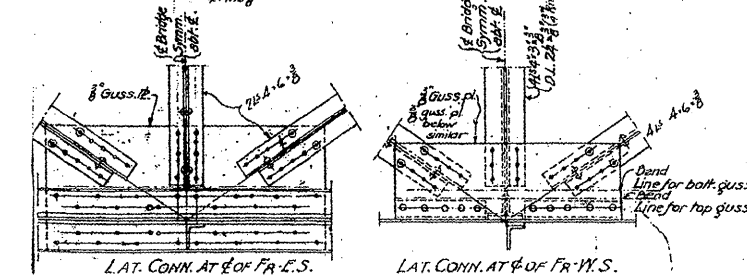
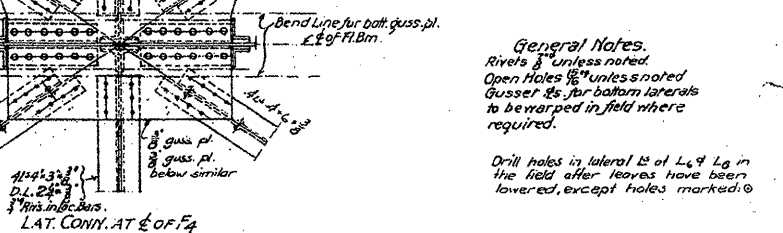
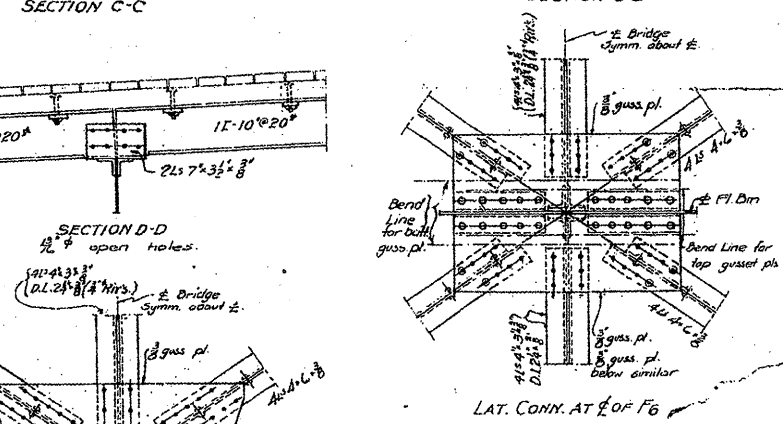
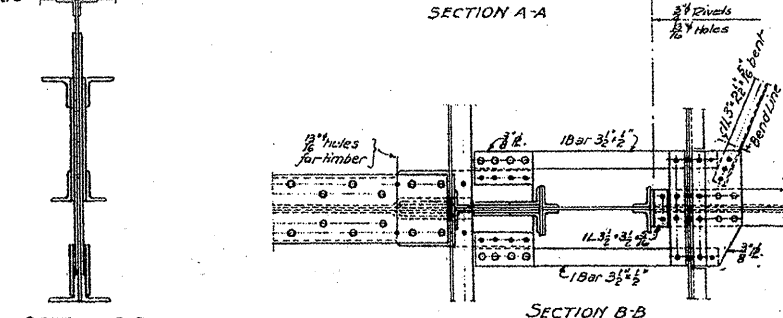
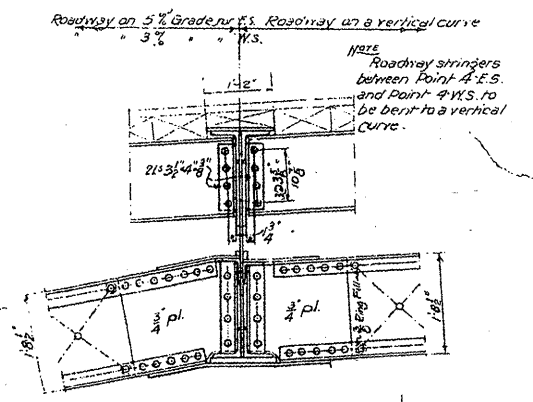
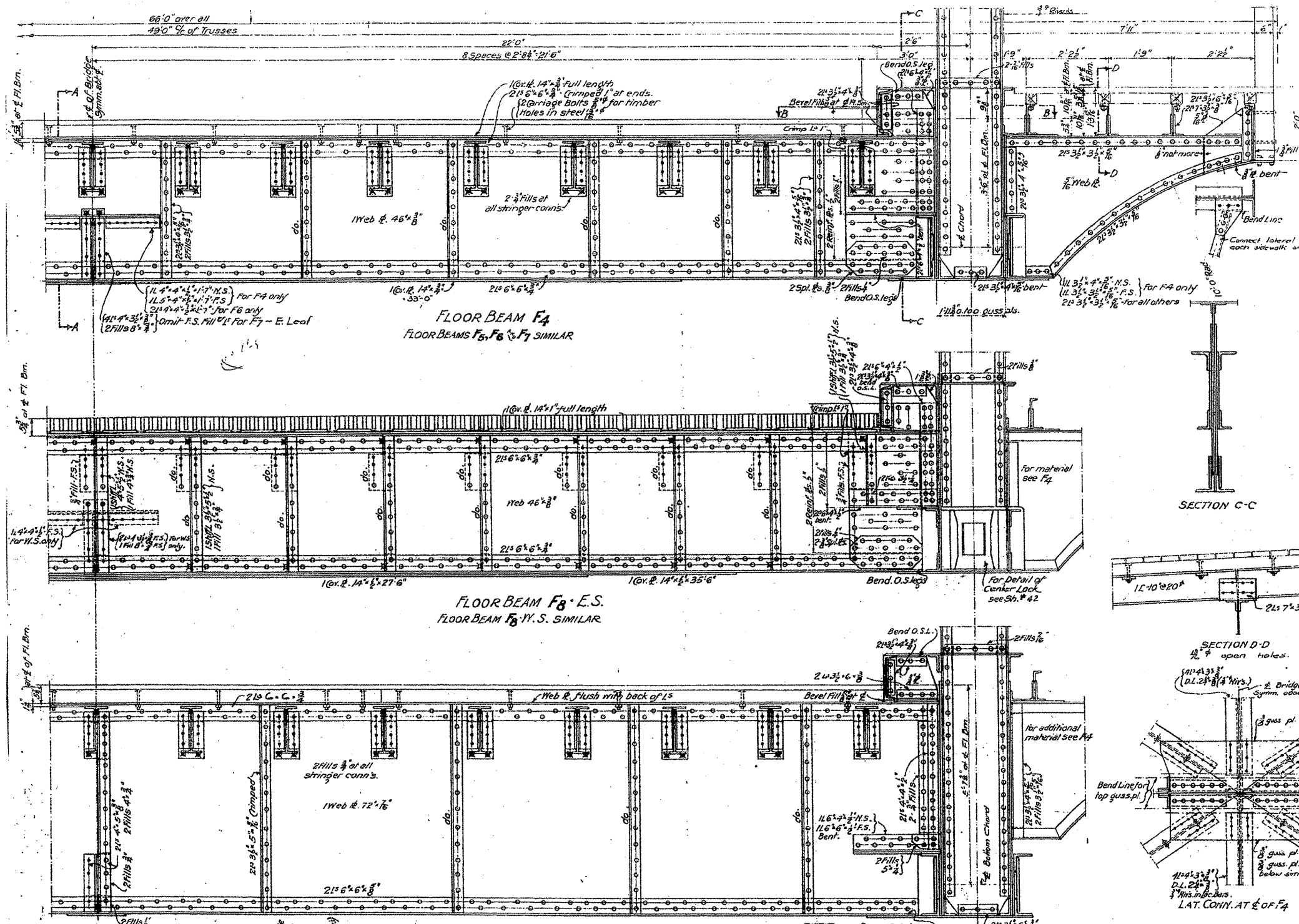
DESIGNED BY
 THE SCHERZER ROLLING-LIFT BRIDGE CO.
 MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY A. B.
 CHECKED BY J. D.
 REVISED Sept. 3, 1933

SCALE: 1/4" = 1'-0"
 DATE: APRIL 15, 1933

SHEET NO. 1343-39

| | | | | | | | | | | |
|--|-------------------|------------|-----------|---|---|---------------------------|---------|--------|-----------------|--------------|
| FILE NAME = | USER NAME = midyo | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER SN 099-9901 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| cdp_w\work\p\DOT\MIDY\JAY\0148931\dl1150 | aa.dgn | DRAWN - | REVISED - | | | 112 | M-BDR-1 | WILL | 66 | 19 |
| PLOT SCALE = 1/8" = 1'-0" | | CHECKED - | REVISED - | | | CONTRACT NO. 62714 | | | | |
| PLOT DATE = 6/26/2009 | | DATE - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | |
| | | | | | SCALE: | SHEET NO. 10 OF 30 SHEETS | | STA. | TO STA. | |



General Notes.
 Rivets 3/4" unless noted.
 Open holes 1/2" unless noted.
 Gusser 1/2" for bottom laterals to be warped in field where required.
 Drill holes in lateral 1/2" of L4 Lg in the field after leaves have been lowered, except holes marked @.

FOR INFORMATION ONLY

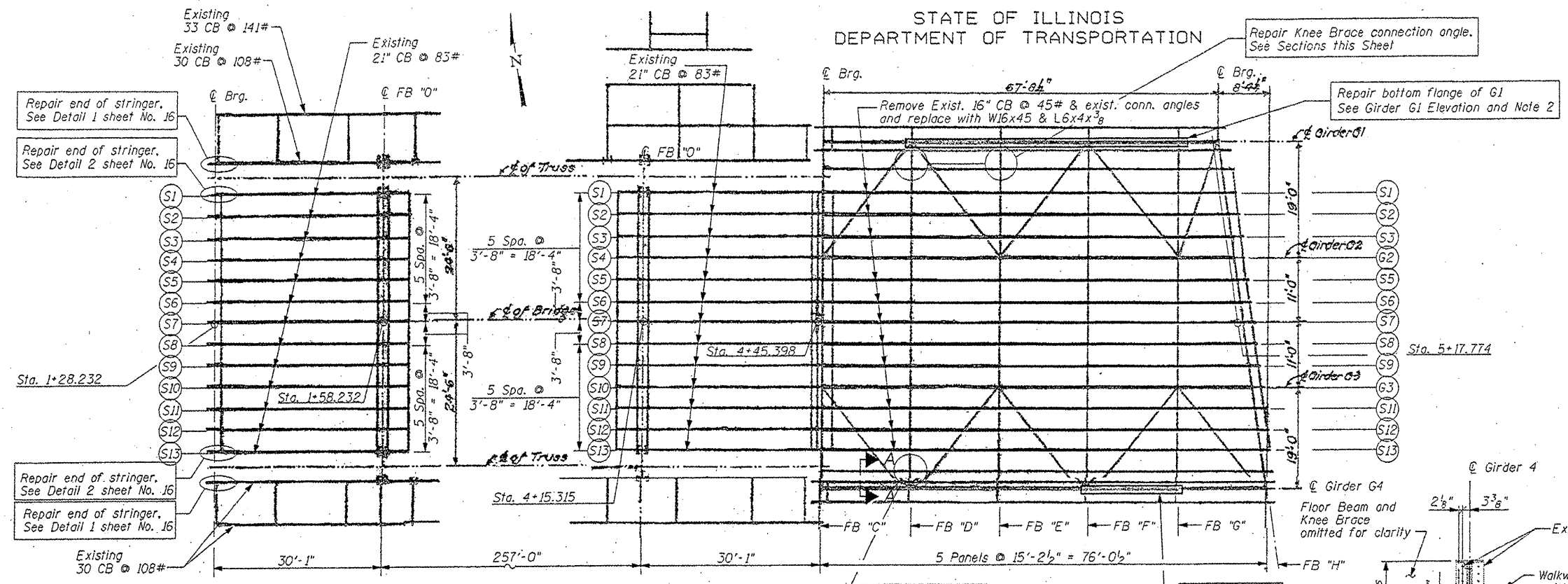
FLOOR BEAMS F3 & F6 BASCULE SPAN
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET, ILL.

DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONROCK BLOCK, CHICAGO, ILL.

DRAWN BY A.L.R.3
 TRACED BY A.D.
 CHECKED BY A.D.
 REVISED 5/27/12, 10/22/13
 SCALE 3/4"=1'-0"
 DATE APRIL 11, 1930
 SHEET NO 1343-38

| | | | | | | | | | | | |
|-------------------------|-----------------------|------------|-----------|---|---|---------------------------|---------|--------|-----------------|--------------|--|
| FILE NAME = | USER NAME = midyjo | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER SN 099-9901 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| ea.dgn | ea.dgn | DRAWN - | REVISED - | | | 112 | M-BDR-1 | WILL | 66 | 20 | |
| PLOT SCALE = 1/8"=1'-0" | PLOT DATE = 6/26/2009 | CHECKED - | REVISED - | | | CONTRACT NO. 62714 | | | | | |
| | | DATE - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | |

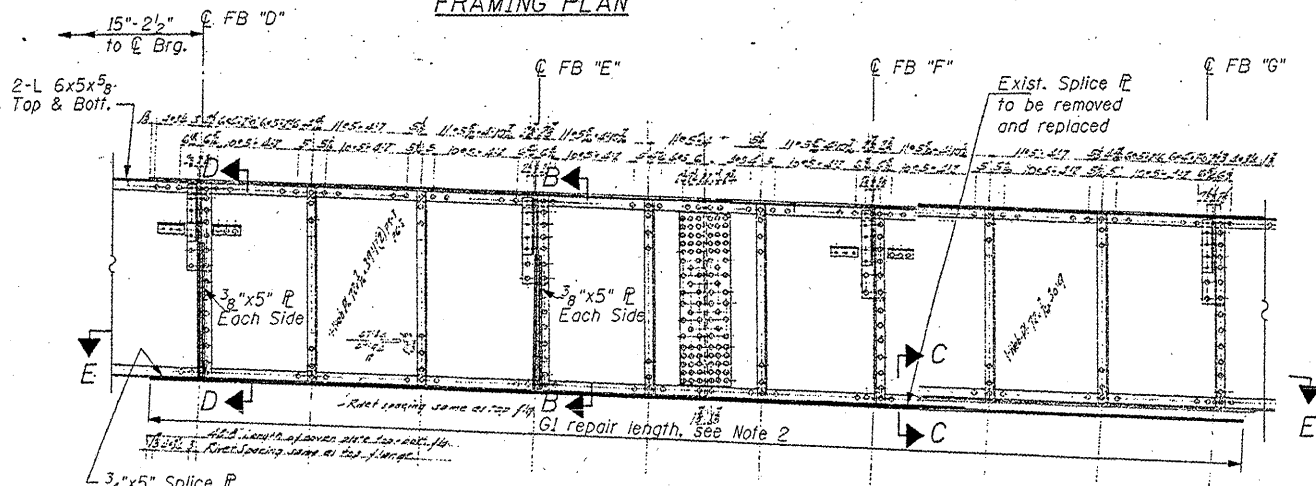
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



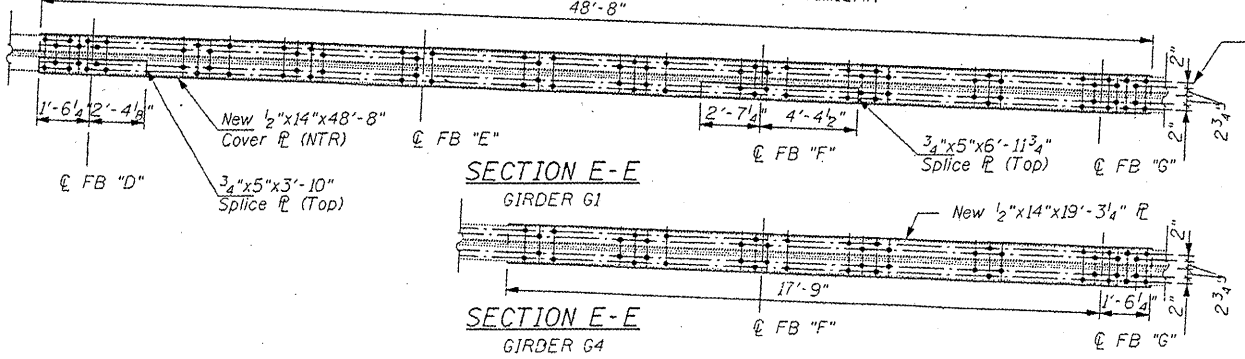
WEST FIXED SPAN

EAST FIXED SPAN
FRAMING PLAN

EAST APPROACH SPAN

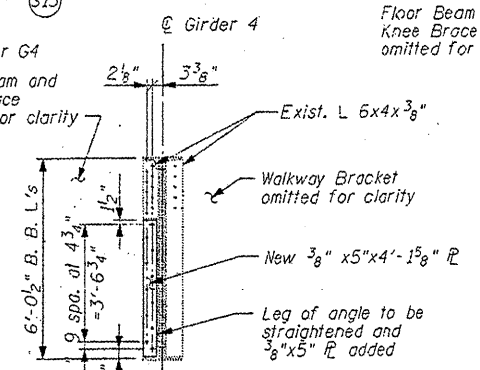


GIRDER G1 ELEVATION
GIRDER G4 SIMILAR

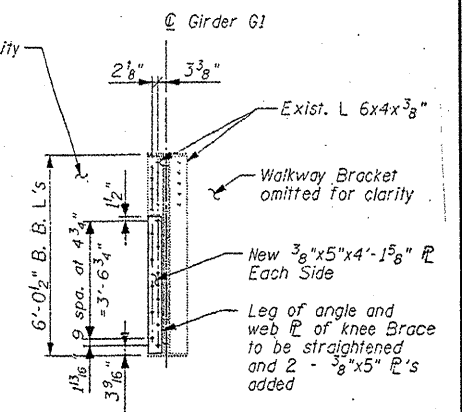


SECTION E-E
GIRDER G1

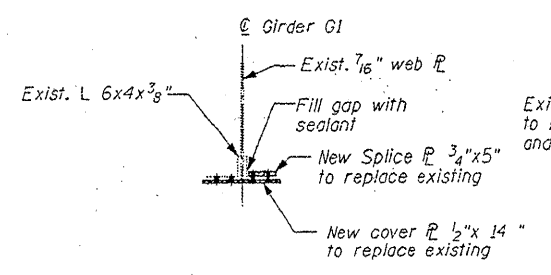
SECTION E-E
GIRDER G4



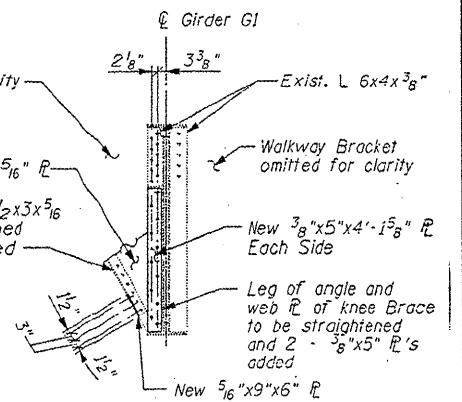
SECTION A-A



SECTION B-B



SECTION C-C



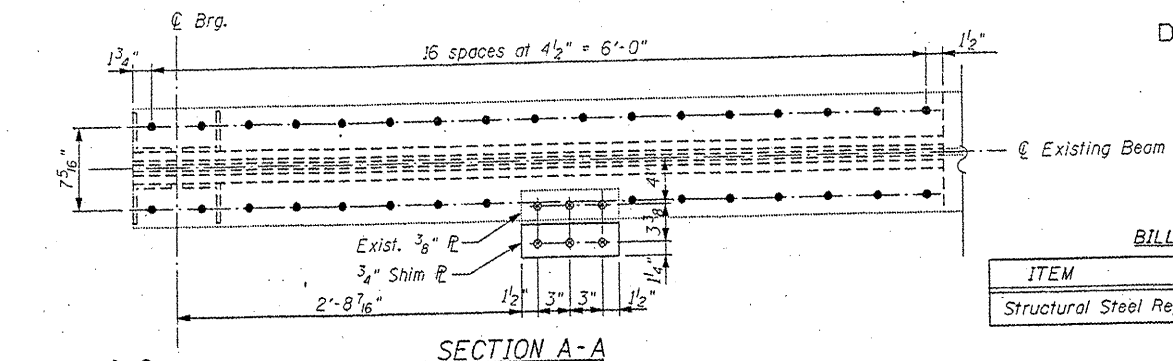
SECTION D-D

FOR INFORMATION ONLY

EAST APPROACH & FIXED SPANS
FRAMING PLAN & DETAILS
RUBY STREET (F.A.P.112) OVER
DES PLAINES RIVER
WILL COUNTY
STRUCTURE NUMBER 099-9901

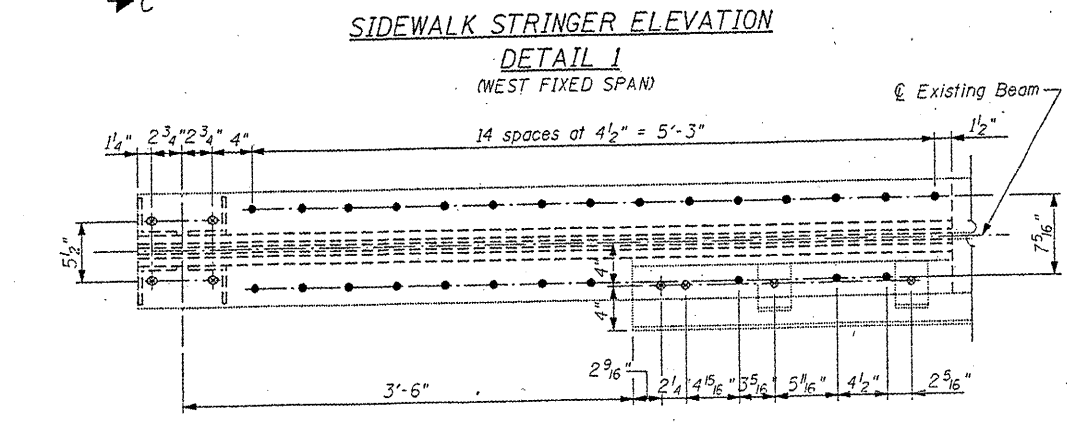
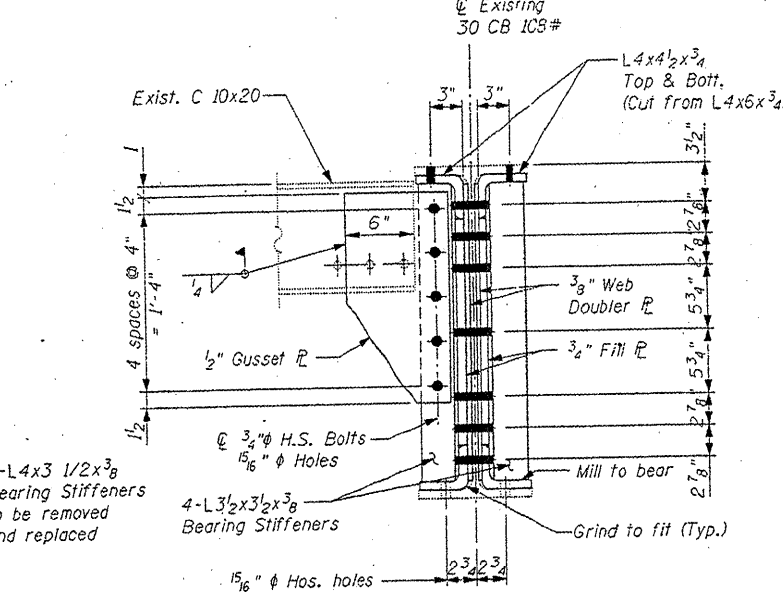
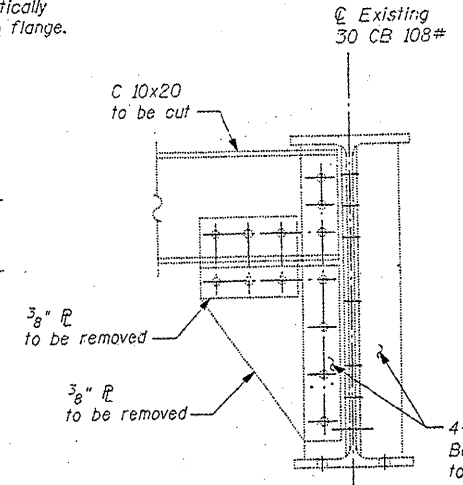
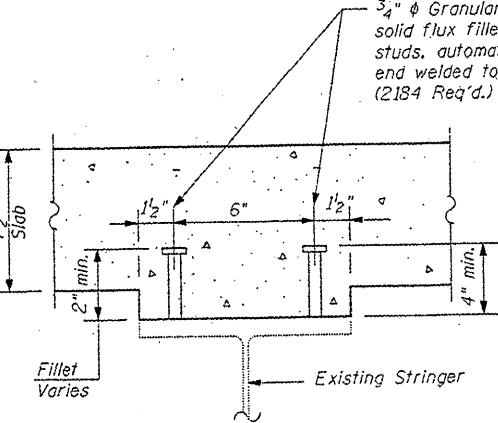
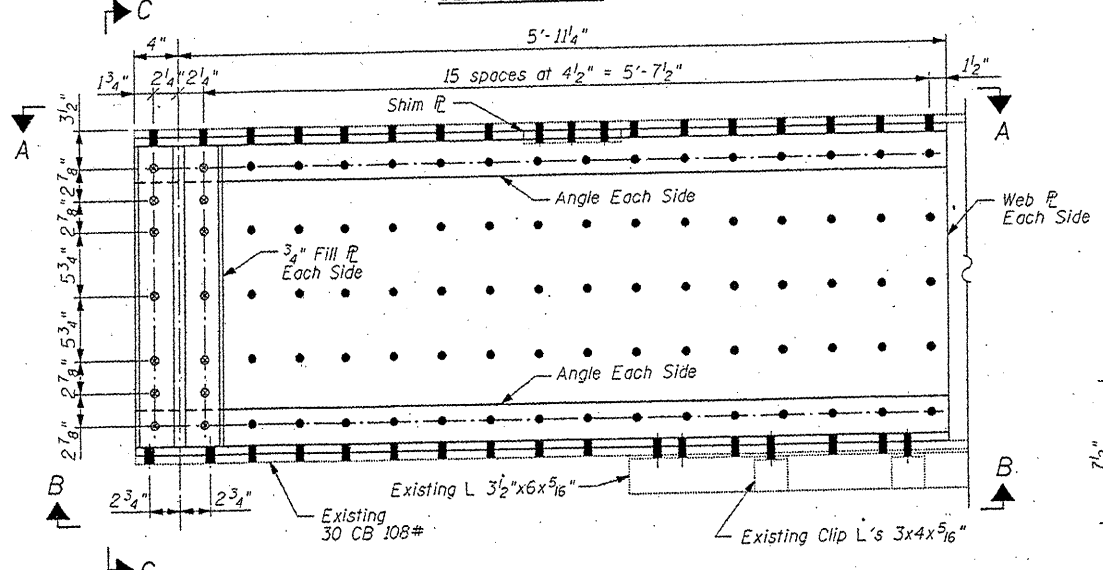
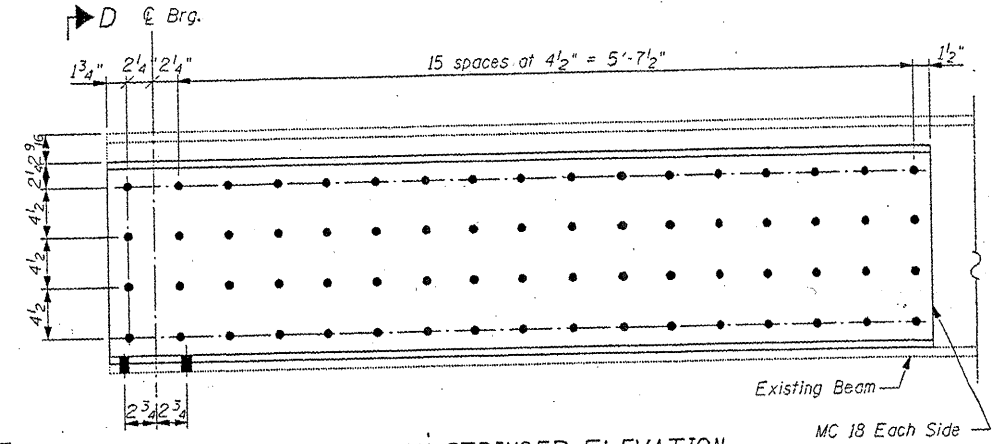
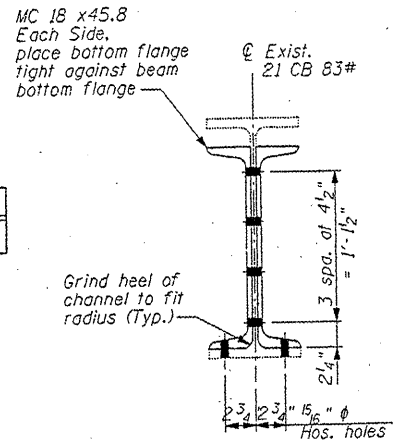
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|-------------------|--------------------------|------------|-----------|---|---|---------------------------|-----------------------|--------------------|---------------------------|--------------------|-----------------|--|
| FILE NAME = | USER NAME = midjje | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER SN 099-9901 | | F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 21 | |
| CONTRACT NO. 6214 | PLT SCALE = 1/8" = 1'-0" | DRAWN - | REVISED - | | SCALE: | SHEET NO. 12 OF 30 SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT | | | |
| | PLT DATE = 6/23/2011 | CHECKED - | REVISED - | | | | | | | | | |
| | | DATE - | REVISED - | | | | | | | | | |
| | | | | | | | | | | | | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

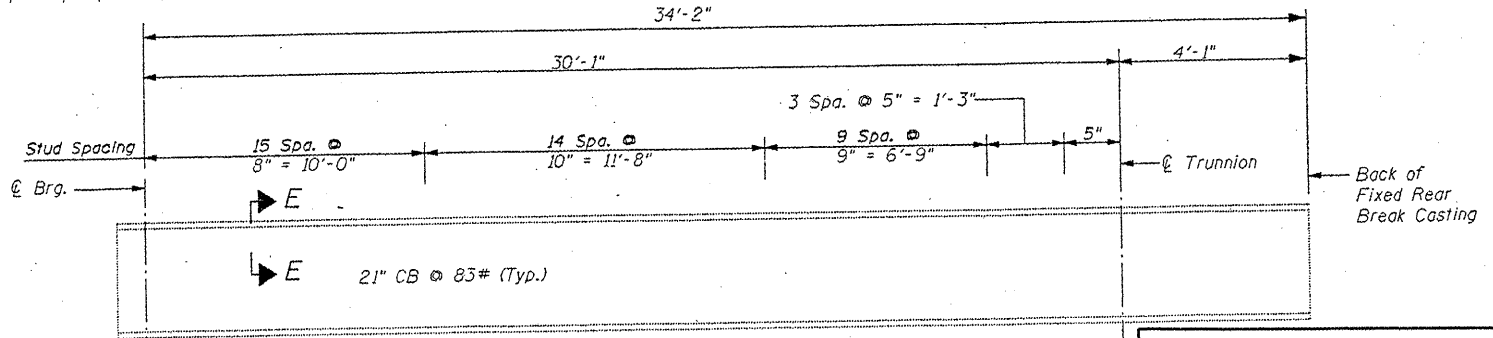


BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|-------------------------|-------|----------|
| Structural Steel Repair | Pound | 3,340 |



SECTION C-C



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

REFERENCE DRAWINGS:

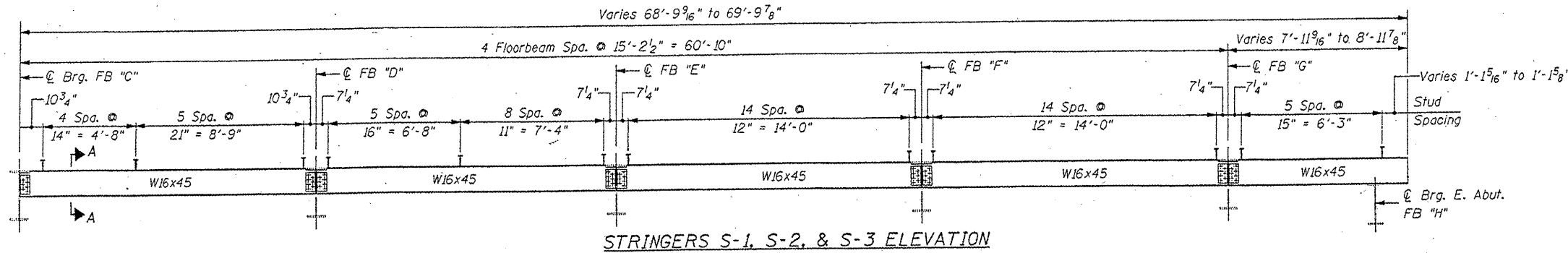
DRAWING WEST APPROACH BEAMS SHEET NO. 5075-53

FOR INFORMATION ONLY

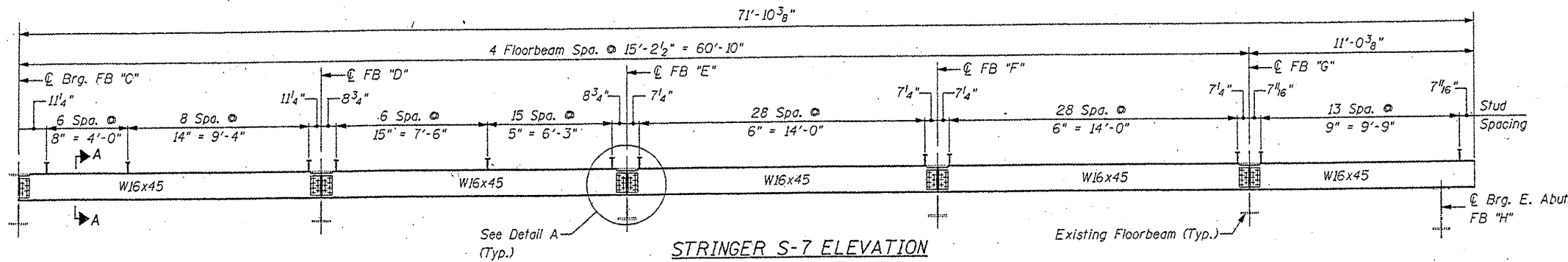
FIXED SPANS
FRAMING DETAILS
RUBY STREET (F.A.P.112) OVER
DES PLAINES RIVER
WILL COUNTY
STRUCTURE NUMBER 099-9901

| | | | | | | | | | | | | |
|--|----------------------|-------------|------------|---|---|----------------------------------|-----------------|---------------------------|-----------------|--------------|--|--|
| FILE NAME: c:\pwork\pwork\midj\j01148931\011158.sht-plon.dgn | USER NAME: midjjo | DESIGNED: - | REVISED: - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER SN 099-9901 | F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 22 | | |
| PLOT SCALE: 1/8" = 1'-0" | PLOT DATE: 6/23/2011 | DRAWN: - | REVISED: - | | | SCALE: SHEET NO. 13 OF 30 SHEETS | STA. TO STA. | ILLINOIS FED. AID PROJECT | | | | |
| | | CHECKED: - | REVISED: - | | | CONTRACT NO. 62714 | | | | | | |
| | | DATE: - | REVISED: - | | | | | | | | | |

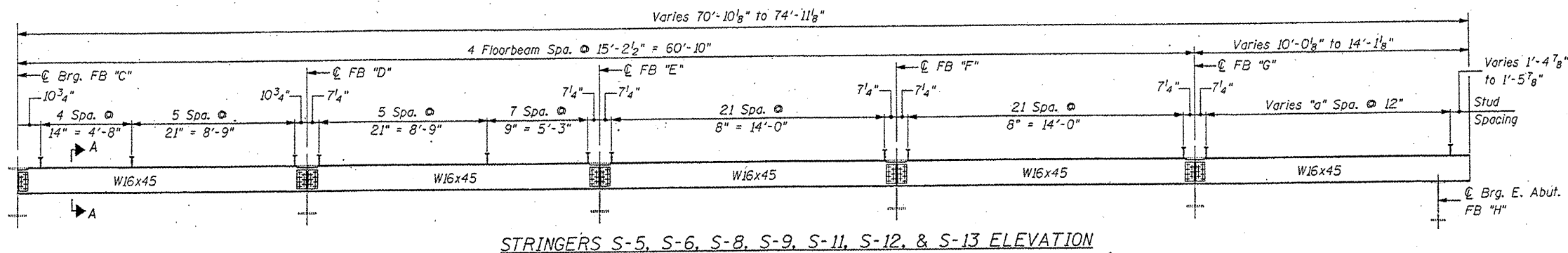
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



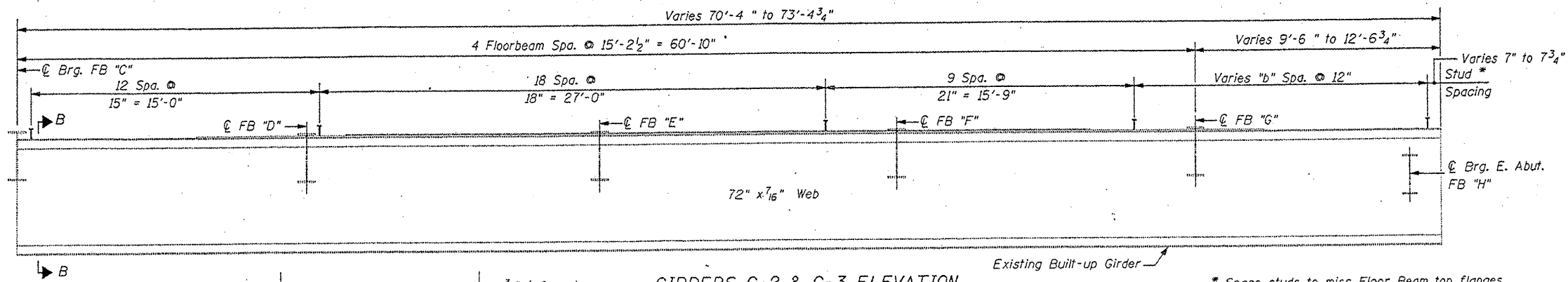
STRINGERS S-1, S-2, & S-3 ELEVATION



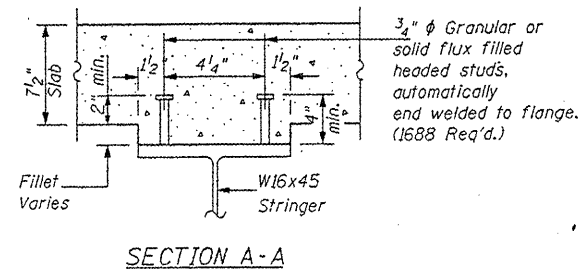
STRINGER S-7 ELEVATION



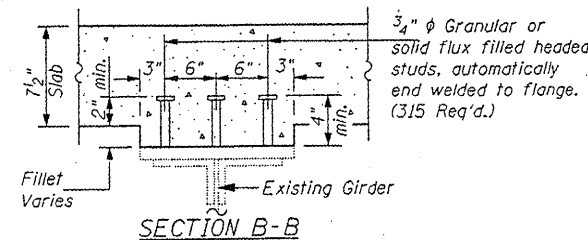
STRINGERS S-5, S-6, S-8, S-9, S-11, S-12, & S-13 ELEVATION



GIRDERS G-2 & G-3 ELEVATION

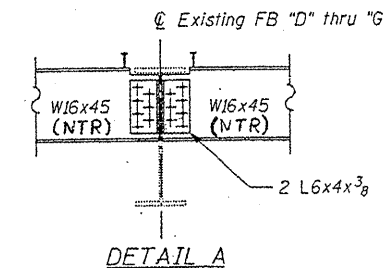


SECTION A-A



SECTION B-B

FOR INFORMATION ONLY

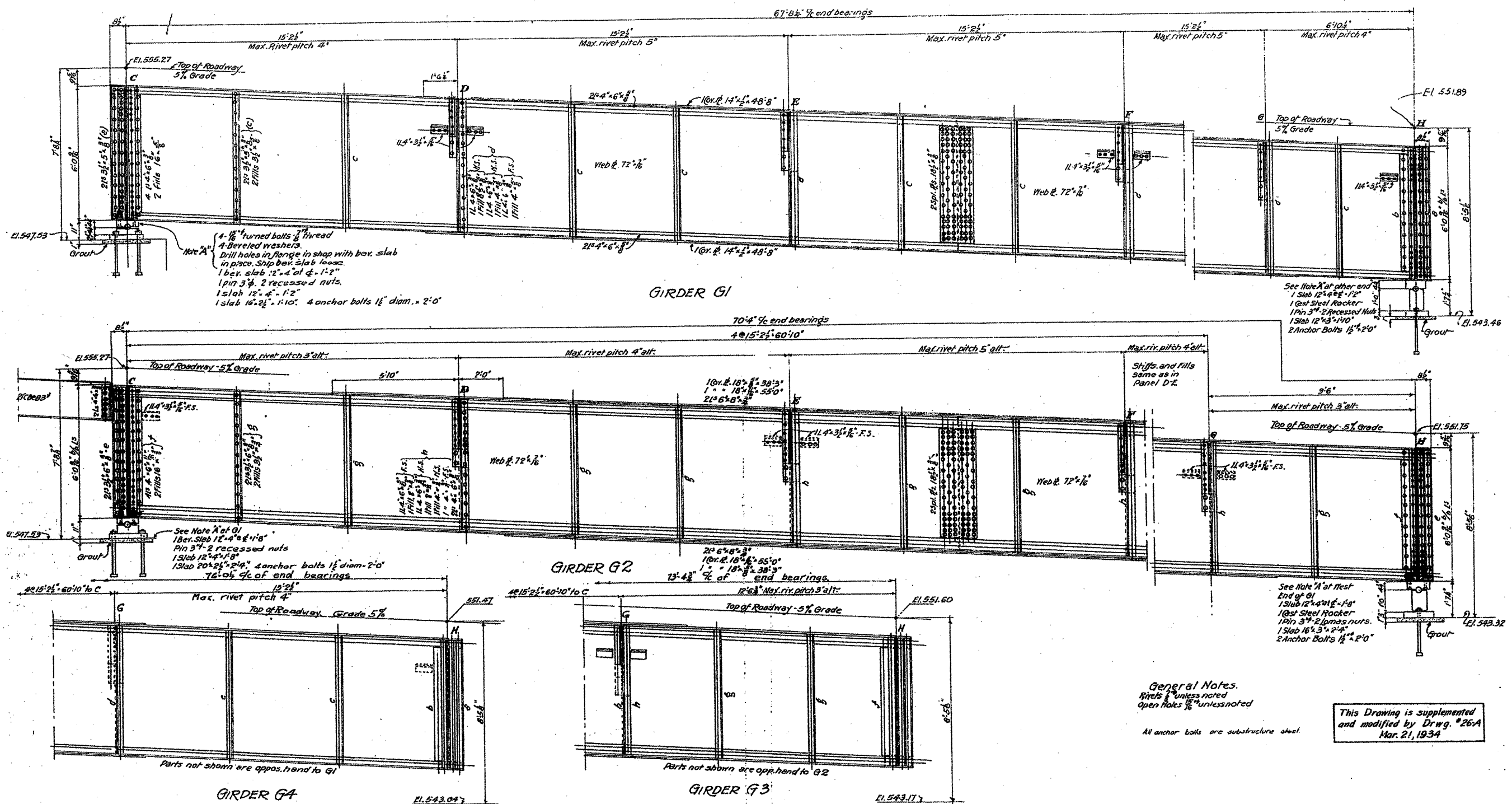


DETAIL A

| Stringer | "a" | Girder | "b" |
|----------|-----|--------|-----|
| S-5 | 8 | G-2 | 12 |
| S-6 | 9 | G-3 | 15 |
| S-8 | 10 | | |
| S-9 | 10 | | |
| S-11 | 11 | | |
| S-12 | 12 | | |
| S-13 | 12 | | |

EAST APPROACH SPAN
FRAMING DETAILS
RUBY STREET (F.A.P.112) OVER
DES PLAINES RIVER
WILL COUNTY
STRUCTURE NUMBER 099-9901

| | | | | | | | | | | | |
|--|-------------------|------------|-----------|---|---|---------------------------|---------------------------|--------|-----------------|--------------|--|
| FILE NAME = | USER NAME = mdyje | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER SN 099-9901 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| en:\pwwork\pwwork\madyje\08148931\011158 | sht-plan.dgn | DRAWN - | REVISED - | | | 112 | M-BDR-1 | WILL | 66 | 23 | |
| PLOT SCALE = 1/8" = 1'-0" | CHECKED - | REVISED - | | | | CONTRACT NO. 62714 | | | | | |
| PLOT DATE = 6/23/2011 | DATE - | REVISED - | | | | ILLINOIS FED. AID PROJECT | | | | | |
| | | | | | | SCALE: | SHEET NO. 14 OF 30 SHEETS | STA. | TO STA. | | |



Note A
 4-1/8" turned bolts 3/4" thread
 4-bered washers
 Drill holes in flange in shop with bar slab
 in place. Shop bar slab loose.
 1 bar slab 12" x 4" x 1/2"
 1 pin 3/8". 2 recessed nuts.
 1 slab 12" x 4" x 1/2"
 1 slab 16" x 2 1/2" x 1/2". 4 anchor bolts 1 1/2" diam. x 2'-0"

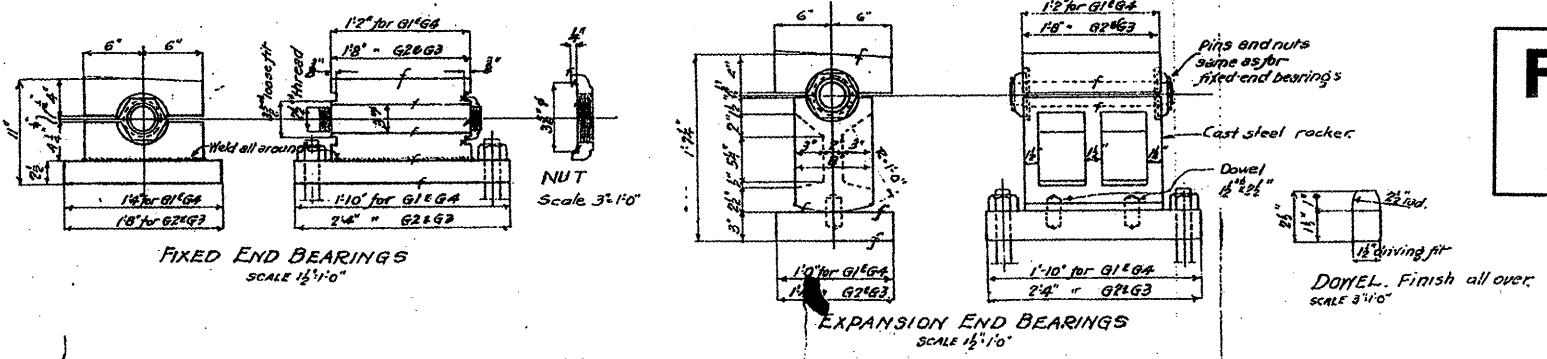
See Note A of G1
 1 bar slab 12" x 4" x 1/2"
 Pin 3/8". 2 recessed nuts
 1 slab 12" x 4" x 1/2"
 1 slab 20" x 2 1/2" x 1/2". 4 anchor bolts 1 1/2" diam. x 2'-0"
 76% of 1/4 of end bearings

See Note A of West
 End of G1
 1 slab 12" x 4" x 1/2"
 1st Steel Rocker
 1 pin 3/8". 2 recessed nuts.
 1 slab 16" x 3" x 1/2"
 2 Anchor Bolts 1 1/2" x 2'-0"

General Notes.
 Rivets 5/8" unless noted
 Open Holes 1/2" unless noted

All anchor bolts are substructure steel.

This Drawing is supplemented
 and modified by Drwg. #26A
 Mar. 21, 1934



FOR INFORMATION ONLY

APPROACH GIRDERS
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST, JOLIET, ILL.

DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONADNOCK BLOCK, CHICAGO, ILL.

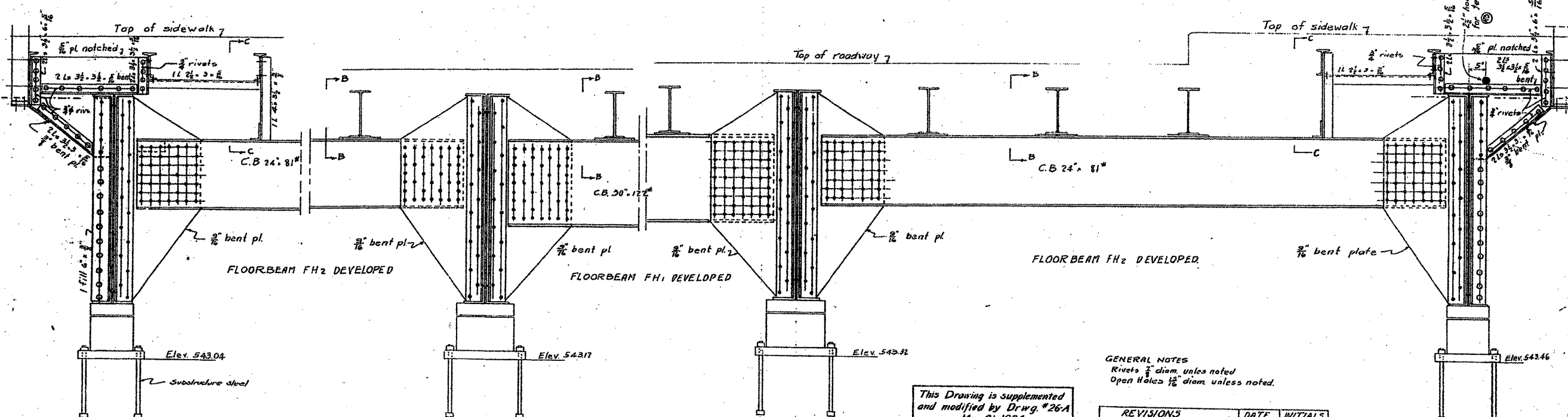
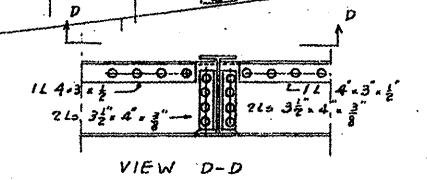
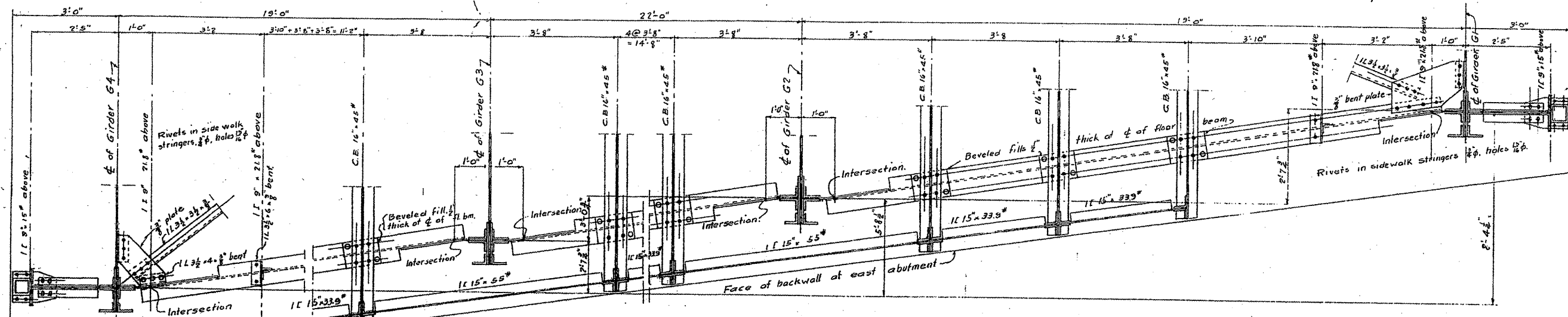
DRAWN BY E.A.P.
 TRACED BY H.W. LLOYD
 CHECKED BY B.T.D.
 REVISED 11-10-1933
 SCALE: 1/4" = 1'-0" unless noted
 DATE: April 29, 1933
 SHEET NO. 1343-25

| | | | |
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| ca:\pwwork\p\midot\midoy\jva\jdb\48931\dl1158 | eadgn | DRAWN - | REVISED - |
| | PLOT SCALE = 103.1218" / IN. | CHECKED - | REVISED - |
| | PLOT DATE = 6/27/2009 | DATE - | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER
 SN 099-9901
 SCALE: SHEET NO. 15 OF 30 SHEETS STA. TO STA.

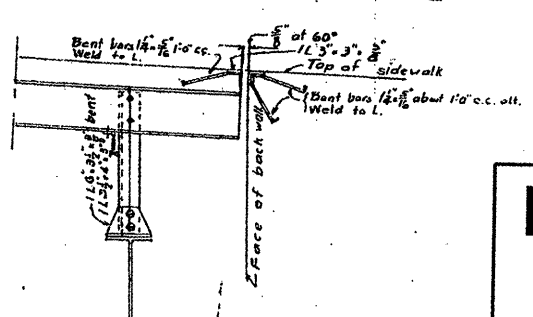
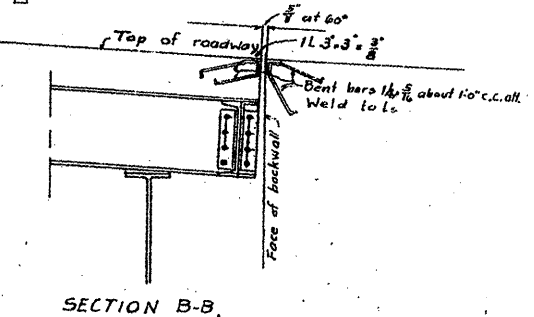
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|---------------------------|---------|--------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 112 | M-BOR-1 | WILL | 66 | 24 |
| | | | CONTRACT NO. 62714 | |
| ILLINOIS FED. AID PROJECT | | | | |



GENERAL NOTES
 Rivets 3/4" diam. unless noted
 Open Holes 1/2" diam. unless noted.

This Drawing is supplemented
 and modified by Drwg. #26-A
 Mar. 21, 1934

| REVISIONS | DATE | INITIALS |
|-----------|-------------------------------|--------------|
| R3 | Hole in diaphragm for conduit | 5-22-32 G.J. |



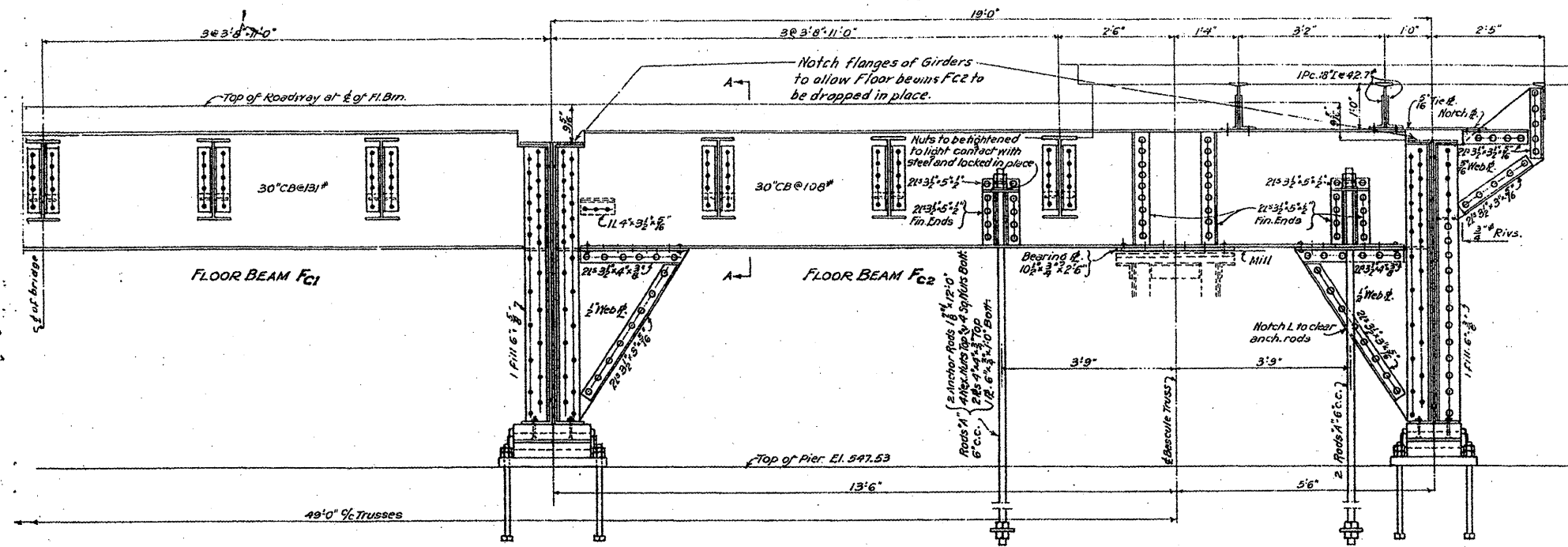
FOR INFORMATION ONLY

APPROACH FLOORBEAMS FH
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST., JOLIET, ILL.

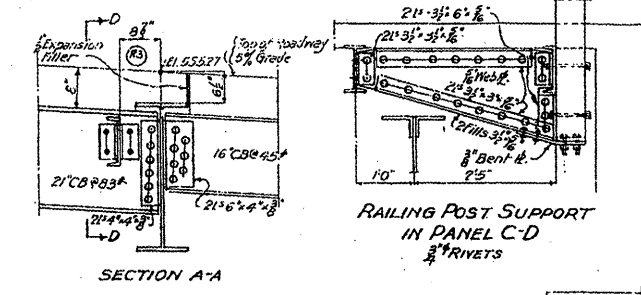
DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONROCK BLOCK, CHICAGO, ILL.

SCALE: 3/8" = 1'-0"
 DATE: April 28, 1934
 DRAWN BY E.A.K.
 TRACED BY E.A.K.
 CHECKED BY O.R.D.
 REVISED Aug 23, 1934

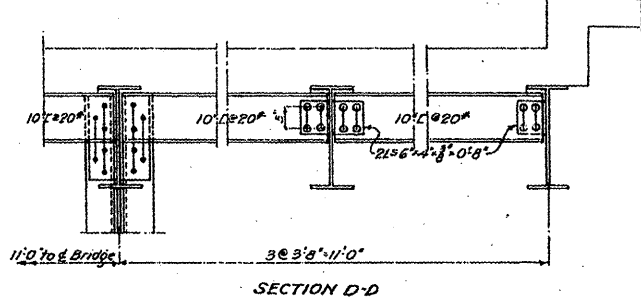
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| PLOT SCALE = 1/83.1218" / IN. | CHECKED - | REVISED - | SCALE: | | | SHEET NO. 16 OF 30 SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT | | |
| PLOT DATE = 6/27/2009 | DATE - | REVISED - | CONTRACT NO. 62714 | | | | | | | | |



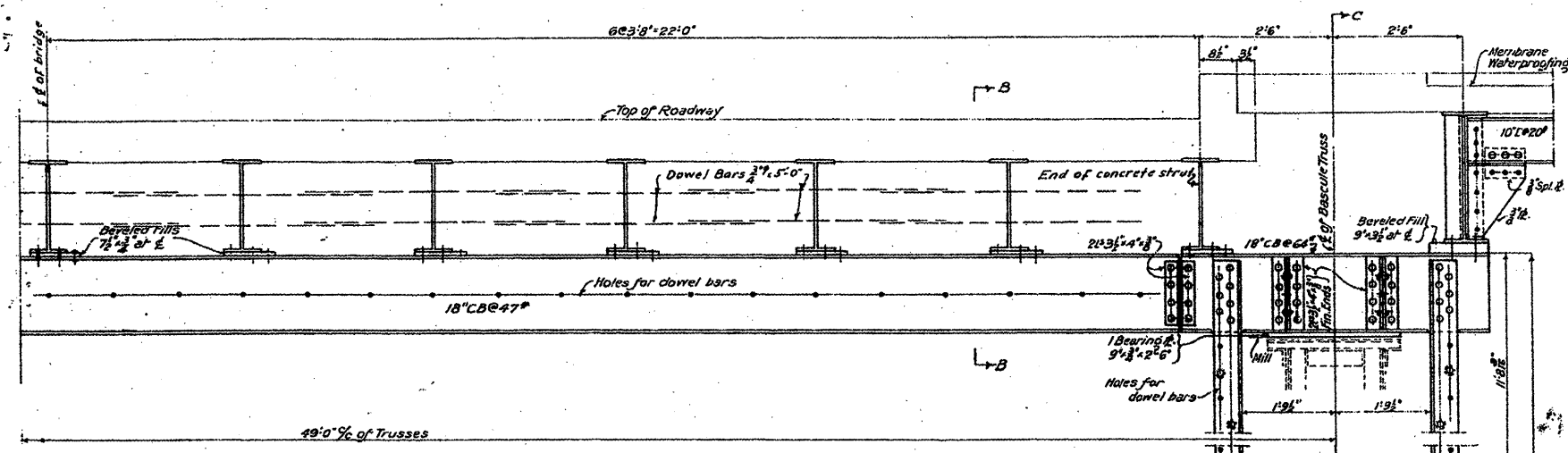
FLOOR BEAMS & ANCHORAGE AT POINT C
EAST LEAF



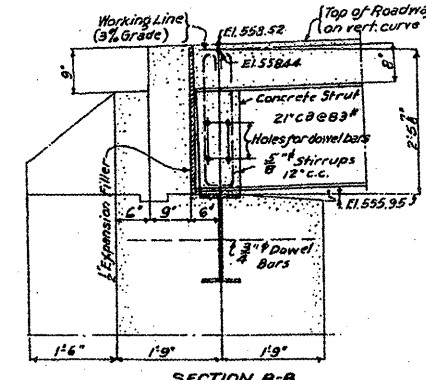
RAILING POST SUPPORT
IN PANEL C-D
3" RIVETS



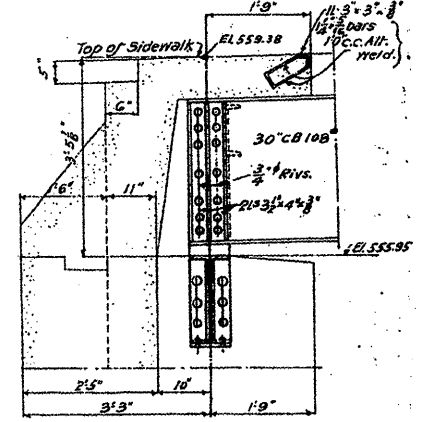
SECTION D-D



ANCHORAGE GIRDER & COLUMNS (substructure steel)
WEST LEAF



SECTION B-B



SECTION C-C

General Notes
Rivets 3" unless noted
Open Holes 1/2" unless noted
For reaming of holes see specifications.

ANCHORAGE GIRDERS & COLUMNS
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST., JOLIET, ILL.

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY P.L.D.

SCALE: 1/4" = 1'-0"

FOR INFORMATION ONLY

| REVISIONS | DATE | INITIALS |
|-------------------------------|----------|----------|
| R3 Expansion joint in Sec. AA | 10-23-36 | G. J. |

2-#4 Leveling Screws
(Construction Joint)
EL. 537.57

2 Anch. Bolts
1 1/2" x 2'6"

FILE NAME =
c:\pwwork\p\1007\MIDYJA\d0148931\d1158

USER NAME = midyja
ao.dgn
PLOT SCALE = 1/8" = 1'-0"
PLOT DATE = 6/27/2009

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

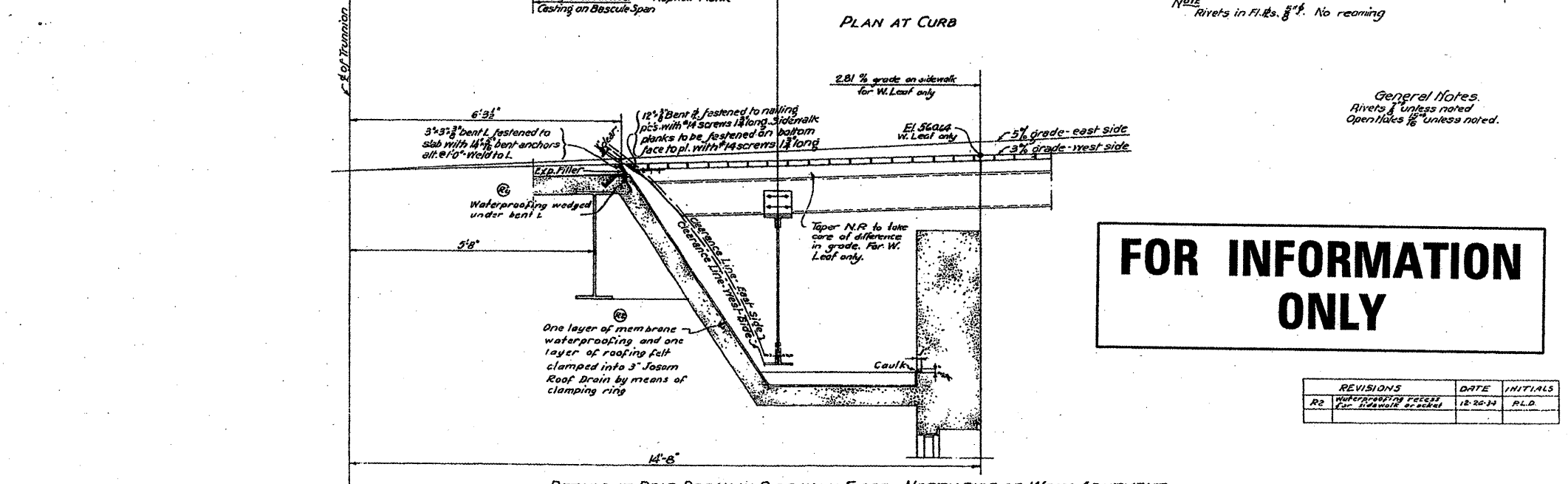
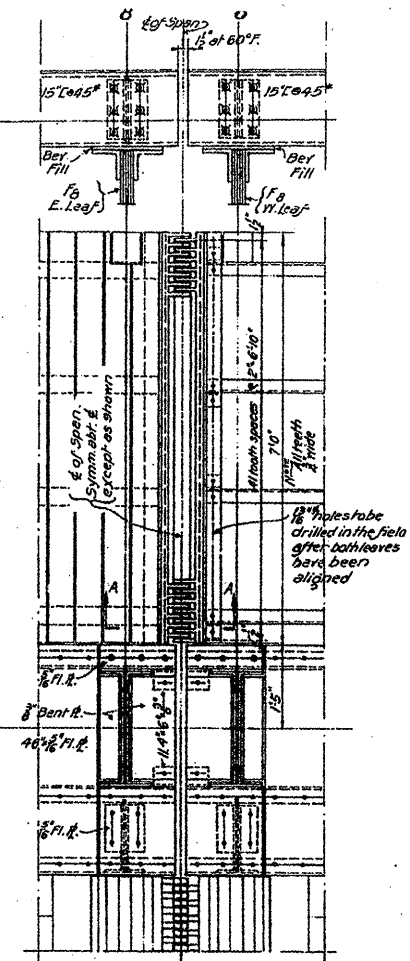
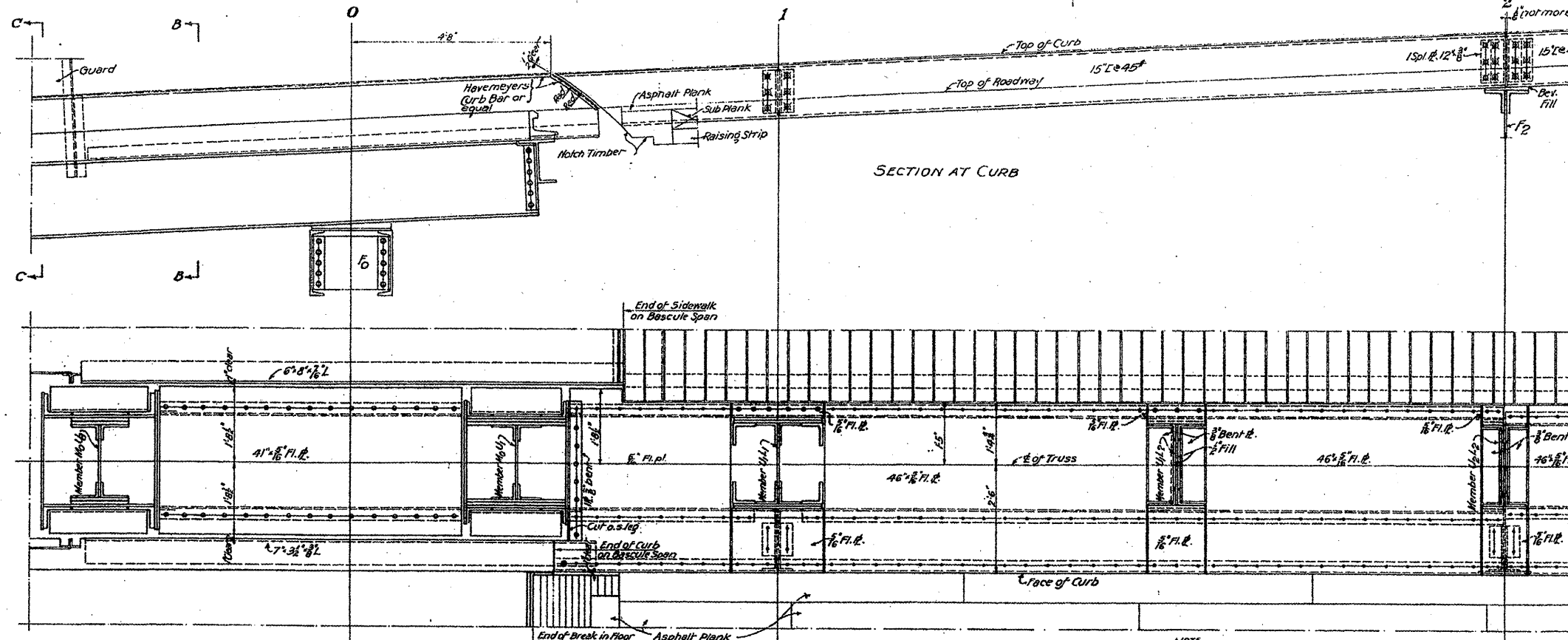
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER
SN 099-9901
SCALE: SHEET NO. 17 OF 30 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|--------|--------------|-----------|
| 112 | M-BDR-1 | WILL | 66 | 26 |

CONTRACT NO. 62714
ILLINOIS FED. AID PROJECT

For Sections B-B' C-C'
see Sheet # 27

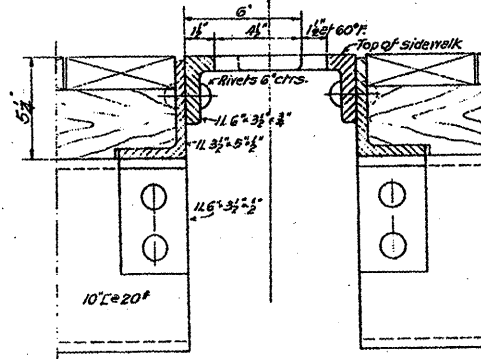


NOTE: Rivets in Fl. B's. 3/8". No reaming

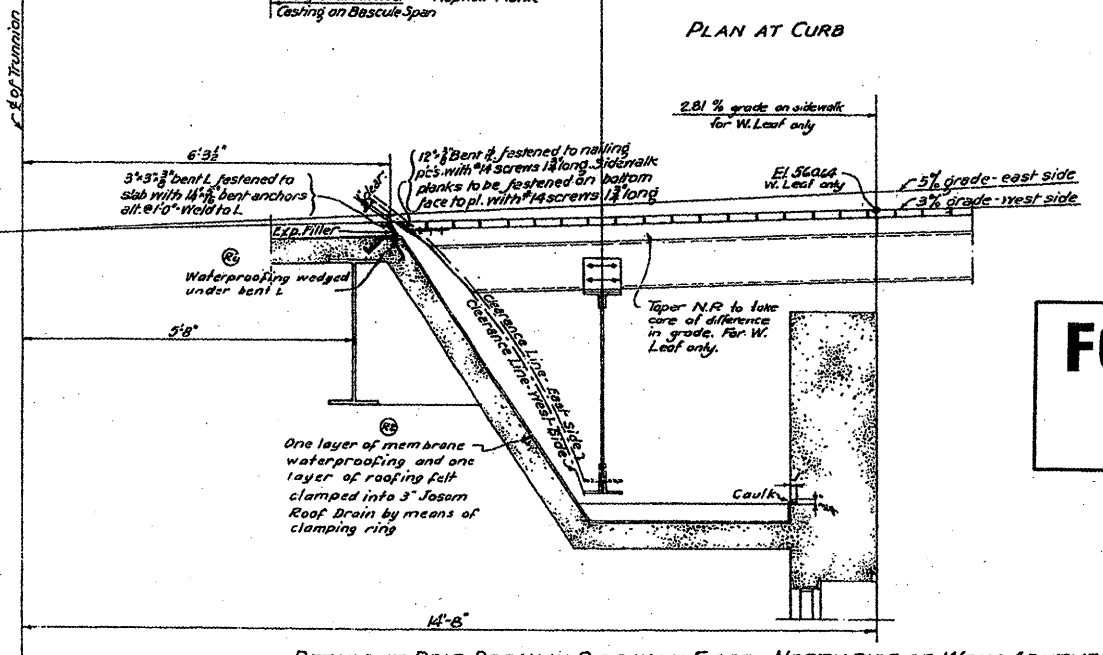
General Notes:
Rivets 1/2" unless noted
Open holes 1/8" unless noted.

FOR INFORMATION ONLY

| REVISIONS | DATE | INITIALS |
|-----------|----------|----------|
| R2 | 12-20-11 | R.L.D. |



SECTION A-A
3/8" RIVETS
SCALE 3"=1'-0"



DETAILS AT REAR BREAK IN SIDEWALK FLOOR-NORTH SIDE OF WEST ABUTMENT
DETAILS AT OTHER POINTS SIMILAR

CURB DETAILS
AND
BREAK IN SIDEWALK
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST, JOLIET, ILL

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY A.B.
TRACED BY E.W.
CHECKED BY R.L.D.

SCALE: 1/4"=1'-0" UNLESS NOTED
DATE: APRIL 21, 1911

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ee.dgn
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PLOT DATE = 6/27/2009

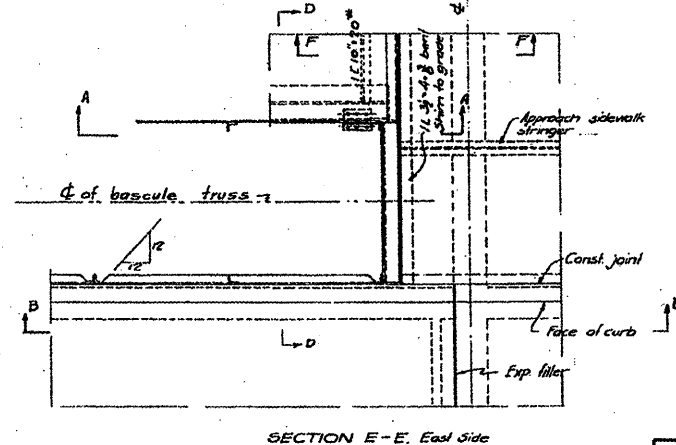
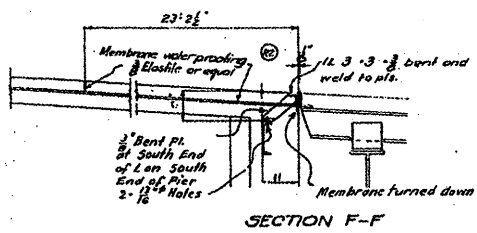
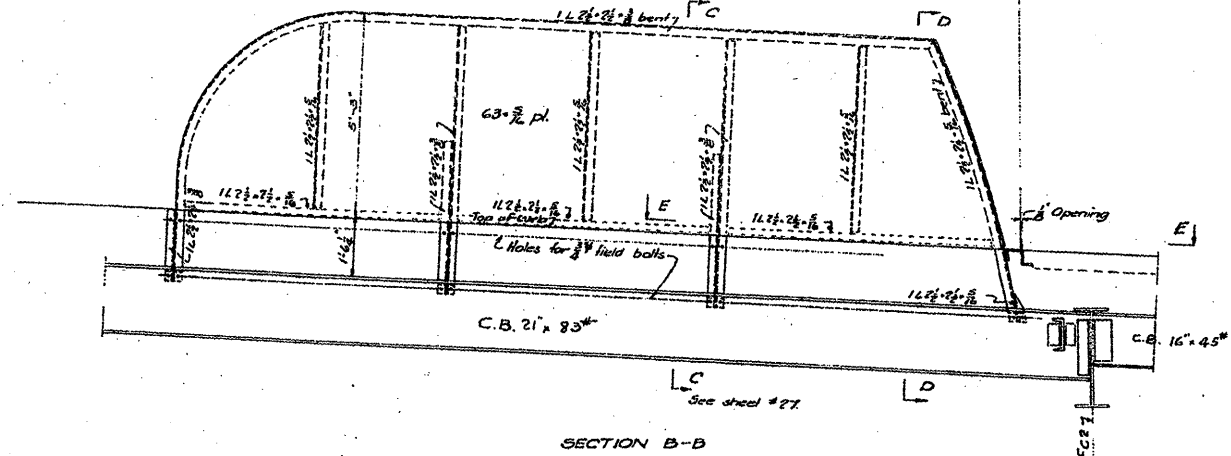
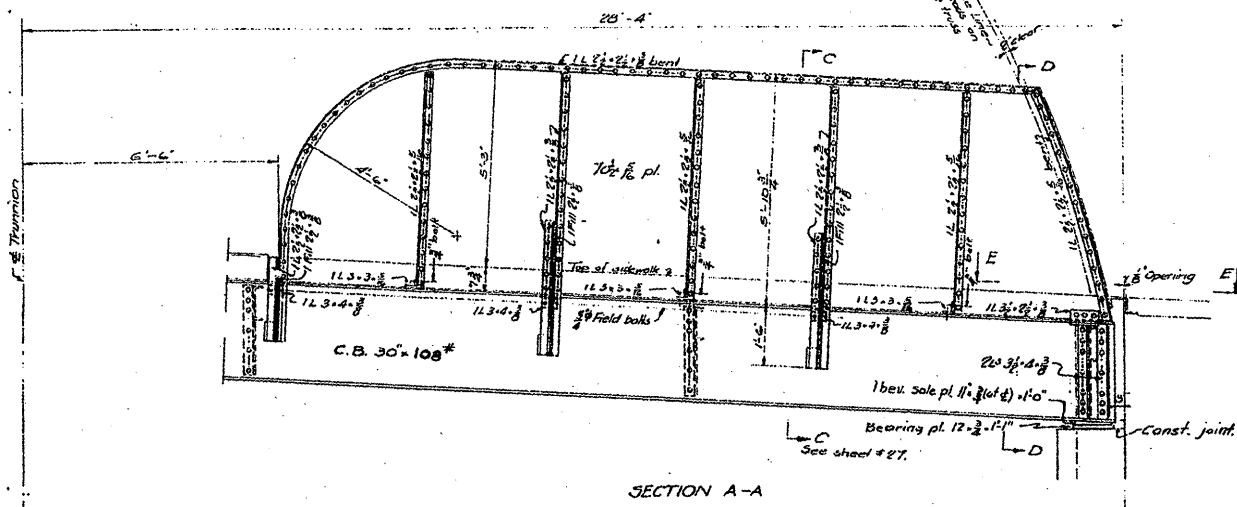
DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISOR -
REVISOR -
REVISOR -
REVISOR -

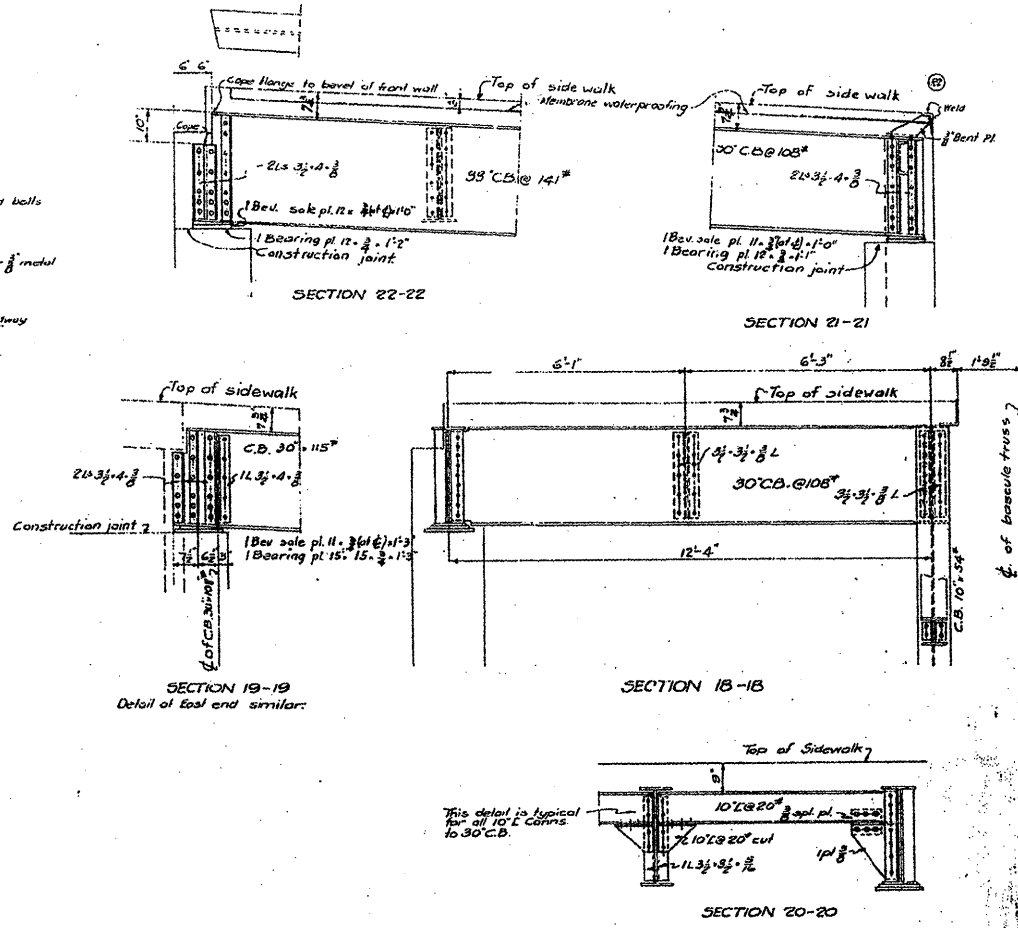
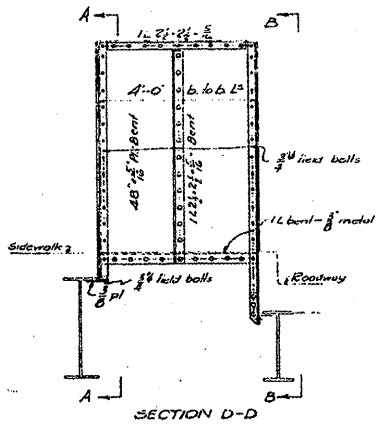
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER
SN 099-9901
SCALE: SHEET NO. 18 OF 30 SHEETS STA. TO STA.

| | | | | |
|---------------------------|---------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 112 | M-BDR-1 | WILL | 66 | 27 |
| CONTRACT NO. 62714 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



GUARD AT REAR END OF EAST BASCULE TRUSSES
Guard at rear end of west bascule trusses similar



SIDEWALK STRINGER DETAILS -- For location of sections see Sheets #6 and #12

General Notes:
Rivets 3/4\"/>

| REVISIONS | DATE | INITIALS |
|--|----------|----------|
| R2 (REVISED 2' DRAW FOR L IN SECTIONS A-F & B-2) | 12-26-34 | R.L.D. |

FOR INFORMATION ONLY

SIDEWALK STRINGERS
GLARD AT REAR END OF TRUSSES
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST. JOLIET, ILL.

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONADNOCK BLOCK. CHICAGO, ILL.

DRAWN BY A.L.R.
TRACED BY A.L.R.S.
CHECKED BY P.T.S.

SCALE: 1/2\"/>

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c:\pwwork\pwwdtd\mody\j\148931\111150

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as.dgn
PLOT SCALE = 1/32\"/>

DESIGNED -
DRAWN -
CHECKED -
DATE -

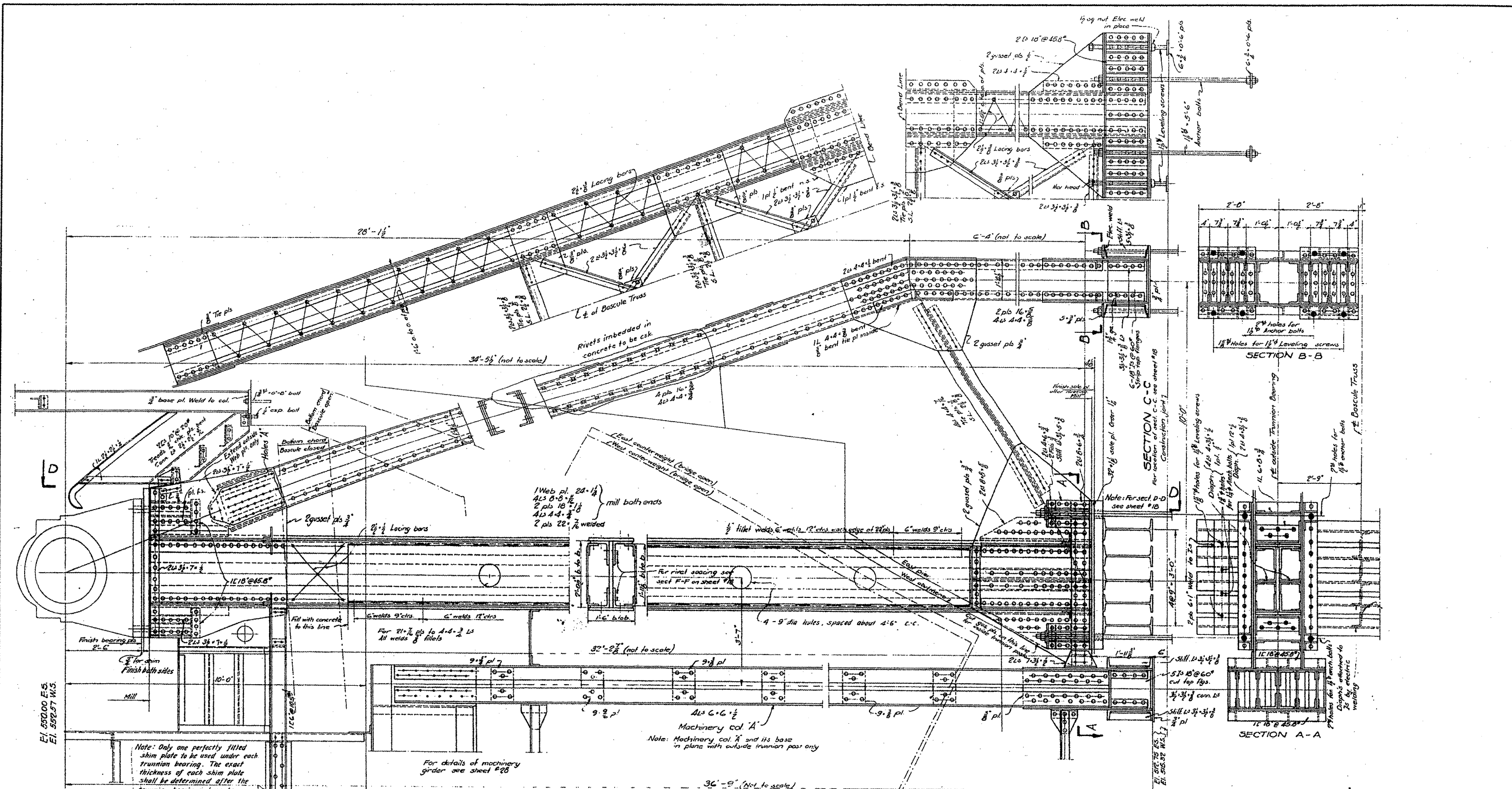
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER
SN 099-9901
SCALE: SHEET NO. 19 OF 30 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|--------|--------------|-----------|
| 112 | M-BDR-1 | WILL | 66 | 28 |

CONTRACT NO. 62714
ILLINOIS FED. AID PROJECT



TRUNNION SUPPORT
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET, ILL.

DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY A.L.R.S. SCALE: 3/4" = 1'-0"
 TRACED BY A.D. DATE: FEB. 21, 1935.
 CHECKED BY E.C.H.
 REVISIONS: 2/24/35

FOR INFORMATION ONLY

| | |
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| PLOT DATE = 7/1/2009 | |

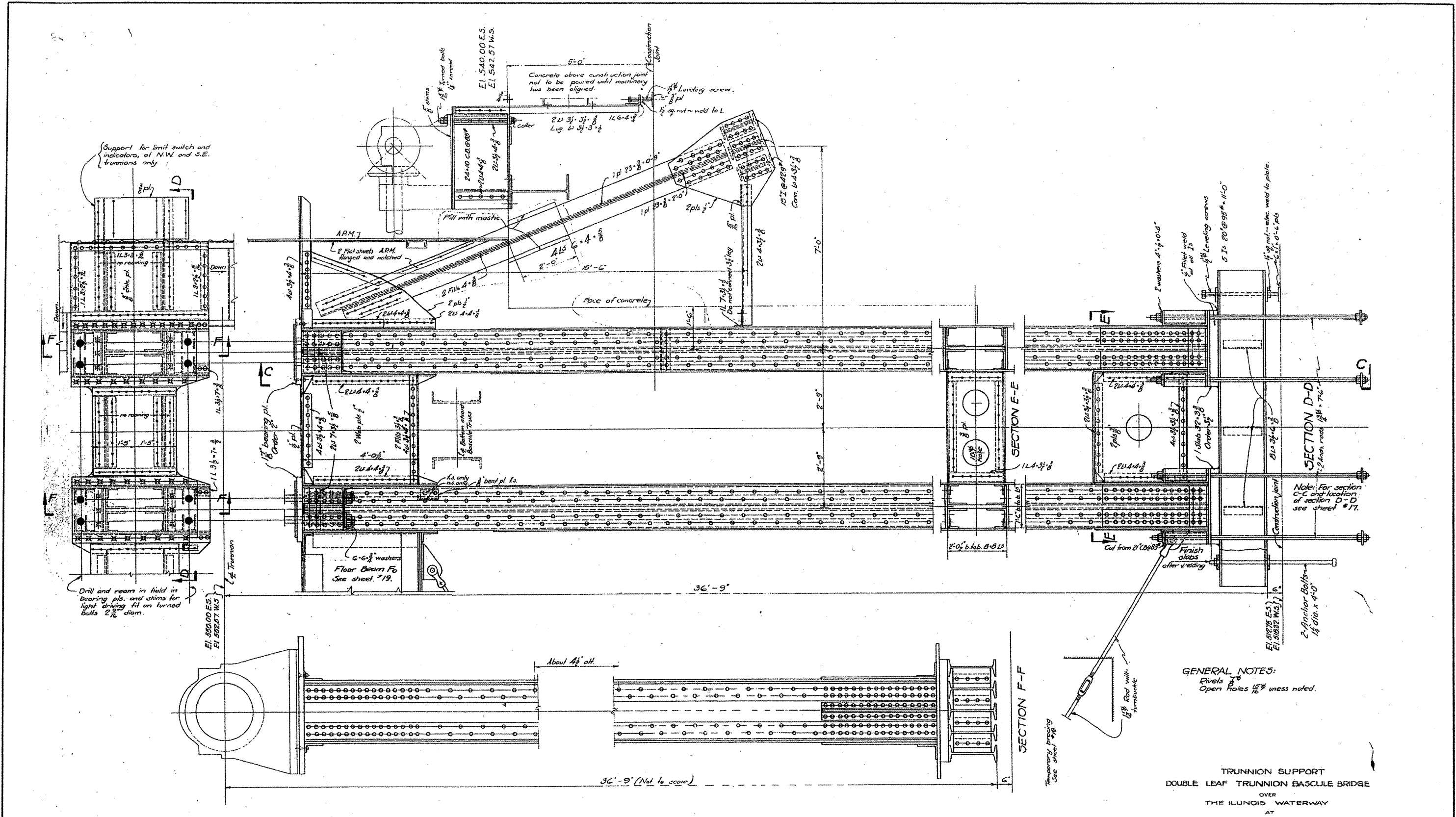
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|------------|-----------|
| DESIGNED - | REVISED - |
| DRAWN - | REVISED - |
| CHECKED - | REVISED - |
| DATE - | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER
 SN 099-9901

SCALE: SHEET NO. 20 OF 30 SHEETS STA. TO STA.

| | | | | |
|---------------------------|---------|--------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 112 | M-BDR-1 | WILL | 66 | 29 |
| | | | CONTRACT NO. 62714 | |
| ILLINOIS FED. AID PROJECT | | | | |



FOR INFORMATION ONLY

GENERAL NOTES:
Rivets 1/2" dia. unless noted.
Open Holes 1/8" unless noted.

**TRUNNION SUPPORT
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST. JOLIET, ILL.**

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONAUNOCK BLOCK, CHICAGO, ILL.

DRAWN BY A.L.R. SCALE: 3/8" = 1'-0"
TRACED BY A.D. DATE: FEB. 21, 1933
CHECKED BY C.D.Y.

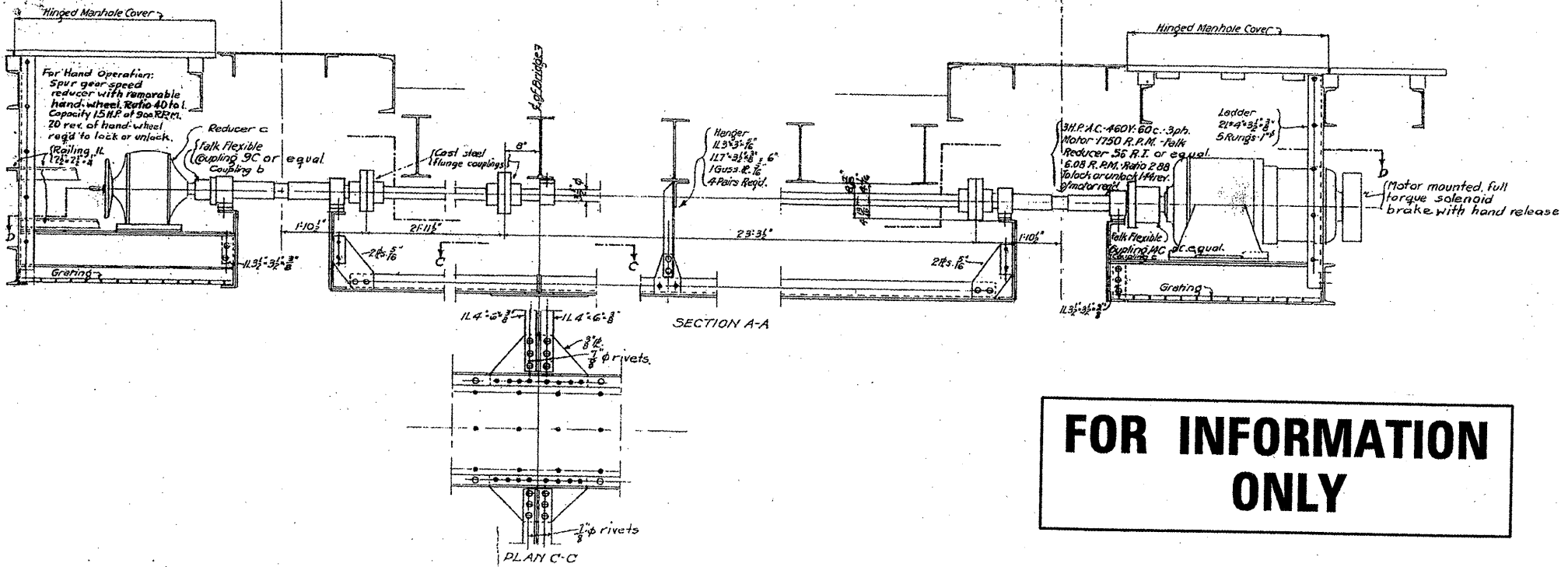
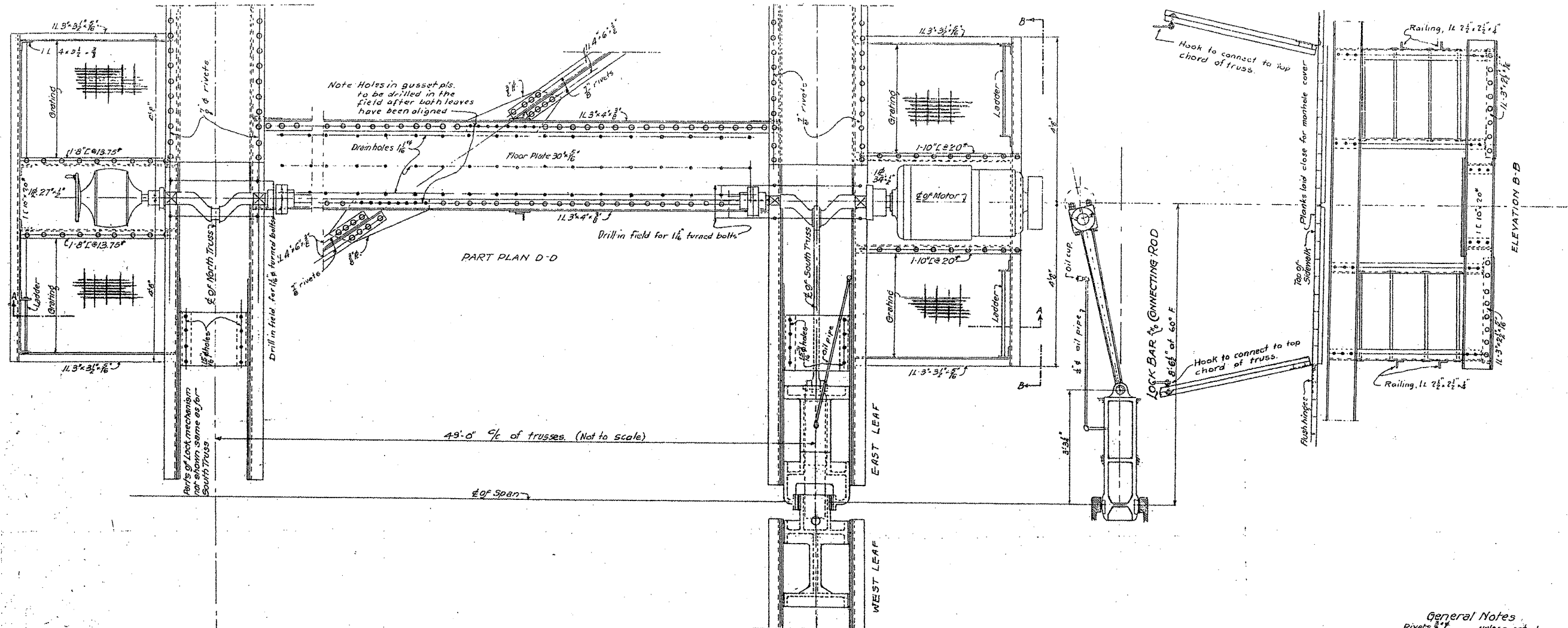
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| | PLOT SCALE = 103.1218 / IN. | CHECKED - | REVISED - |
| | PLOT DATE = 7/1/2009 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RUBY STREET OVER DES PLAINES RIVER
SN 099-9901**

SCALE: SHEET NO. 21 OF 30 SHEETS STA. TO STA.

| | | | | |
|-----------------------------|---------|--------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 112 | M-BDR-1 | WILL | 66 | 30 |
| | | | CONTRACT NO. 62714 | |
| (ILLINOIS) FED. AID PROJECT | | | | |



General Notes
 Rivets 3/4" unless noted
 Open Holes 1 1/2" "
 Metal covers, equal to the specified gear covers, shall be provided for the motor, brake, speed reducers, cranks and crank bearings.
 Gratings shall be equal to Tri-lock Rectangular Flooring Class 1-0-4 with bars 1 1/2" and 1 1/2".
 For general machinery notes see Sheet No 46

FOR INFORMATION ONLY

CENTER LOCK SUPPORTS
DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST., JOLIET, ILL.

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY E.A.H.
 TRACED BY G.E. & E.A.H.
 CHECKED BY A.L.D.
 SCALE 1/4" = 1'-0"
 DATE APRIL 21, 1933

| | | | | | | | | | | | |
|--------------------------|--------------------|------------|-----------|---|---|---------------------------|---------------------------|--------|--------------|--------------------|--|
| FILE NAME = | USER NAME = midyjo | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER SN 099-9901 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| PLT SCALE = 1/8" = 1'-0" | DATE = 6/27/2009 | DRAWN - | REVISED - | | | 112 | M-BDR-1 | WILL | 66 | 31 | |
| | | CHECKED - | REVISED - | | | SCALE: | SHEET NO. 21 OF 30 SHEETS | STA. | TO STA. | CONTRACT NO. 62714 | |
| | | DATE - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | |

FOR INFORMATION ONLY

For machinery details see dugs. #4, 9 & 11.

GENERAL NOTES:

Rivets $\frac{3}{4}$ " except as noted.
 Open holes $\frac{1}{2}$ " except as noted.
 Holes marked "R" are to be reamed for $\frac{1}{2}$ " turned bolts with supports assembled in the shop and parts match marked. Bolts to have light driving fit.
 All holes for bolts attaching machinery to the supports are to be sub-drilled and reamed with the supports completely bolted up with turned bolts and with machinery beds completely assembled in place in the shop. Machinery and supports must be match marked one with respect to the other.
 Finishing surfaces which are to be embedded in concrete are not to be painted or oiled.

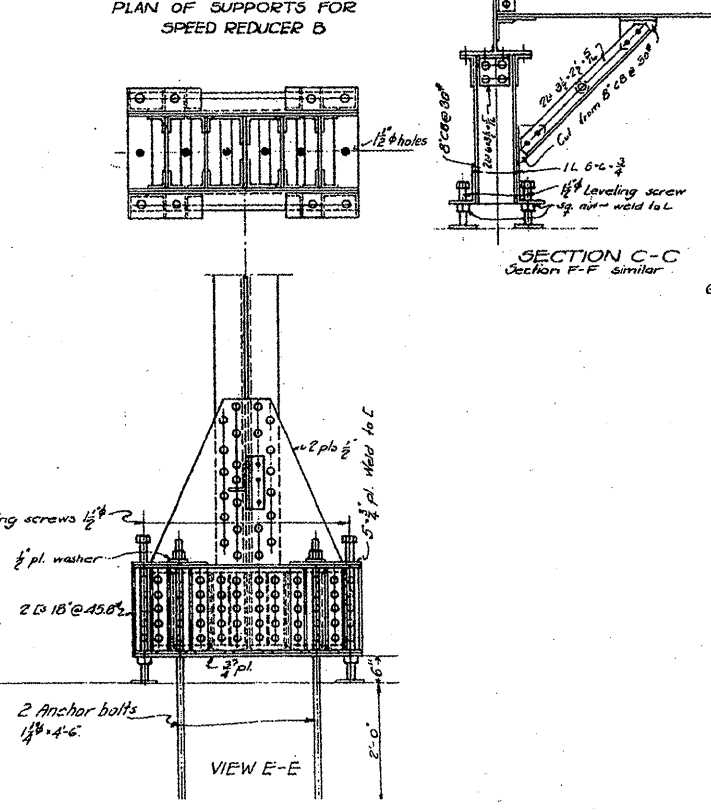
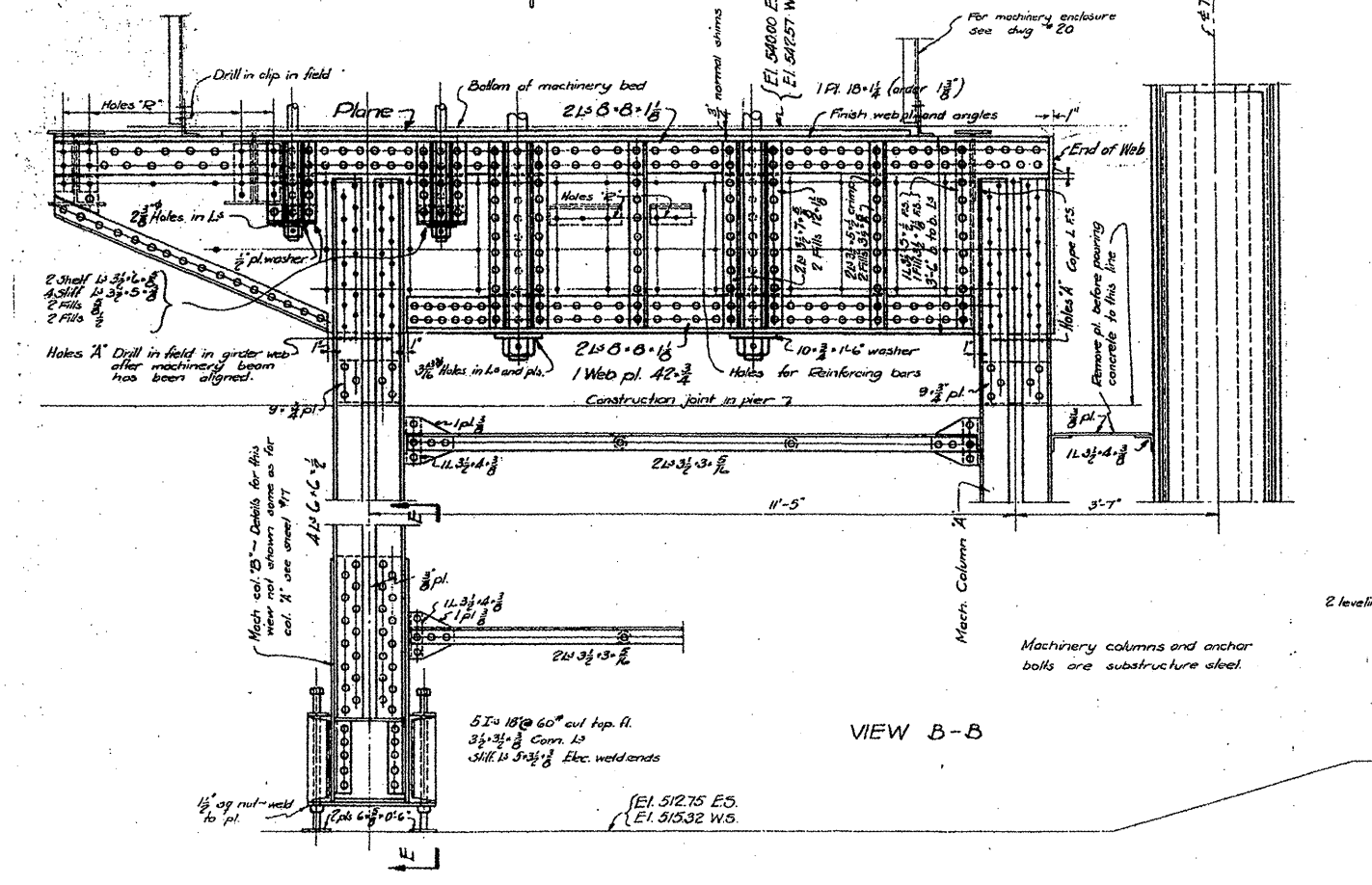
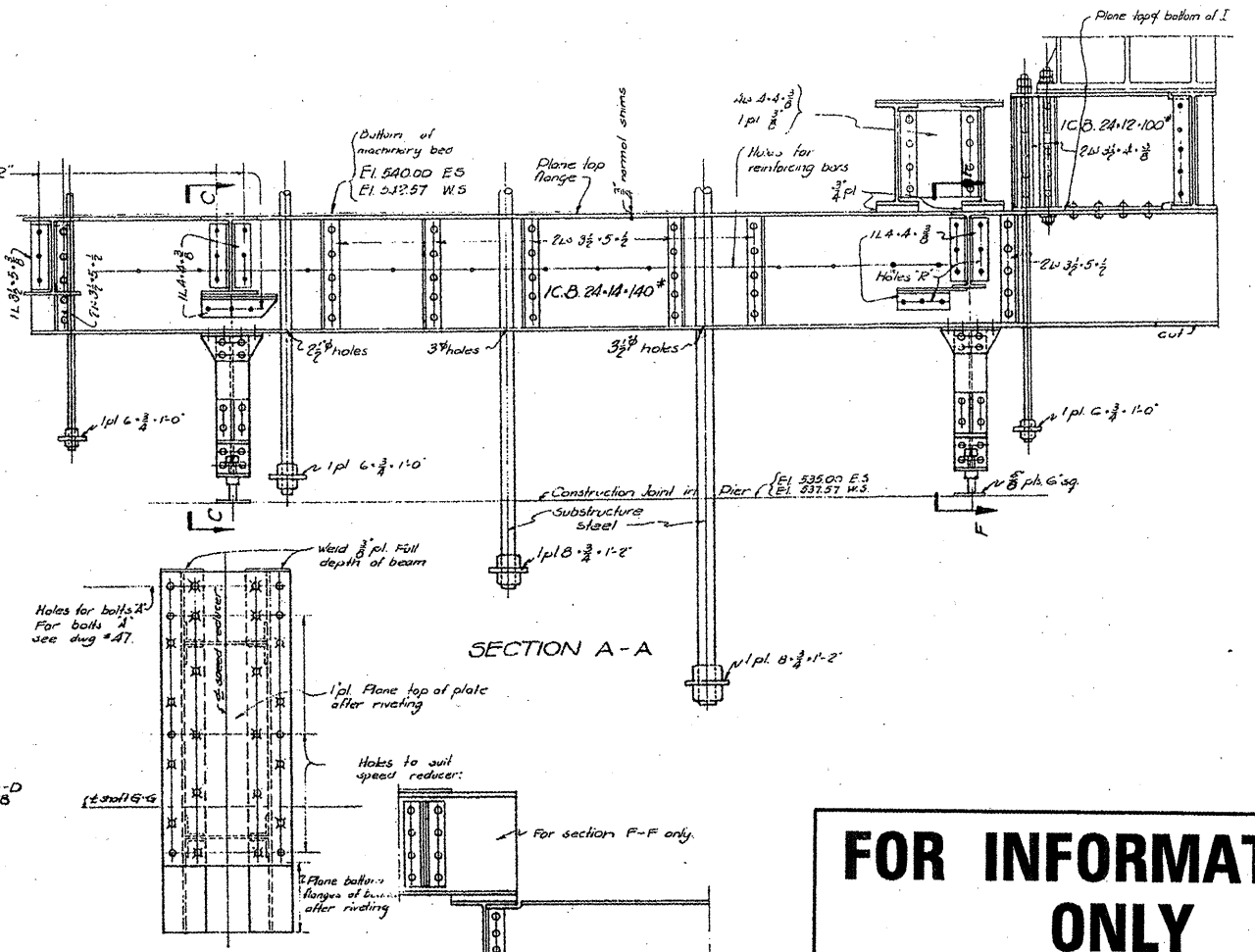
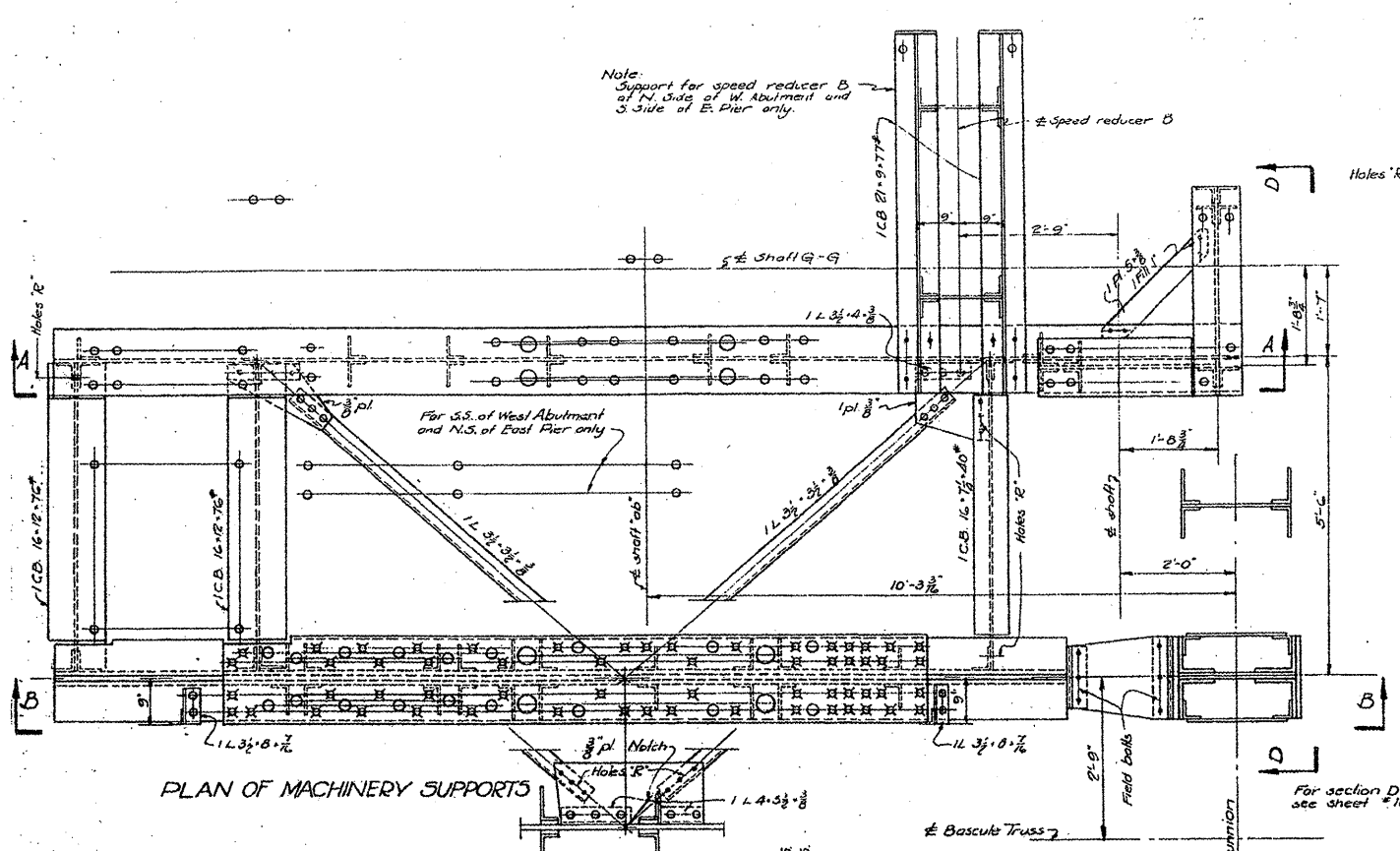
**MACHINERY SUPPORTS
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET, ILL.**

DESIGNED BY
**THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONADNOCK BLOCK, CHICAGO, ILL.**

DRAWN BY ALR.S.
 TRACED BY A.D.
 CHECKED BY T.E.

SCALE: $\frac{1}{4}$ " = 1'-0"
 DATE: MAR. 17, 1933

SHEET NO. 23 OF 30



| | |
|------------------|--------------------|
| FILE NAME = | USER NAME = midjjo |
| DESIGNED - | REVISIONS - |
| DRAWN - | REVISIONS - |
| CHECKED - | REVISIONS - |
| DATE = 6/27/2009 | REVISIONS - |

| |
|-----------------------------|
| PLOT SCALE = 1/32" = 1' IN. |
| PLOT DATE = 6/27/2009 |

| | |
|------------------|-------------|
| DESIGNED - | REVISIONS - |
| DRAWN - | REVISIONS - |
| CHECKED - | REVISIONS - |
| DATE = 6/27/2009 | REVISIONS - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RUBY STREET OVER DES PLAINES RIVER
 SN 099-9901**

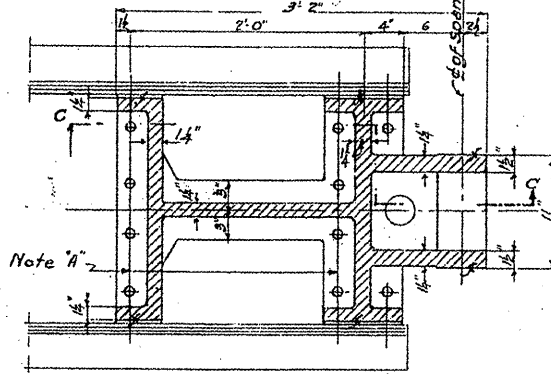
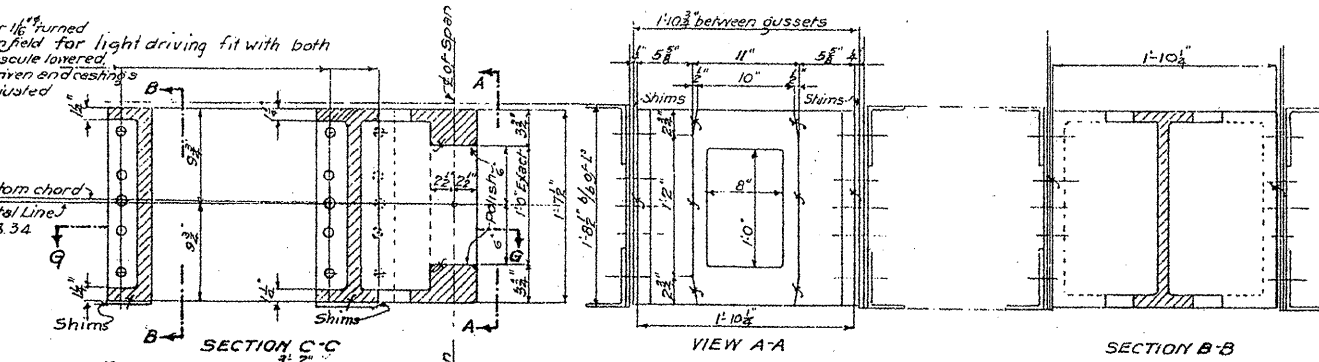
SCALE: SHEET NO. 23 OF 30 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------------|-------------|--------------------|--------------|
| F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 32 |
| | | | CONTRACT NO. 62714 | |
| ILLINOIS FED. AID PROJECT | | | | |

Note A

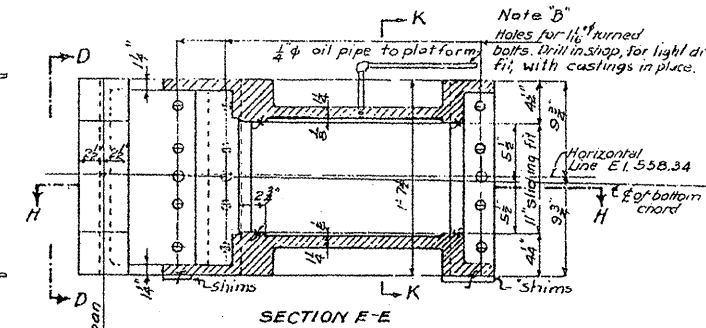
Holes for 1/2" turned bolts. Drill in field for light driving fit with both leaves of bascule lowered. Shear lock driven and castings properly adjusted.

Horizontal Line E1.558.34



SECTION G-G CASTING FOR WEST LEAF 2 REQ'D. CAST STEEL

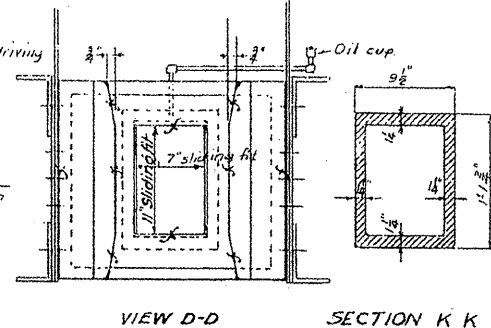
Note Dimensions locating lock castings are given for a temperature of 60° F and should be varied according to the temperature of the time the castings are adjusted.



SECTION H-H CASTING FOR EAST LEAF 2 REQ'D. CAST STEEL

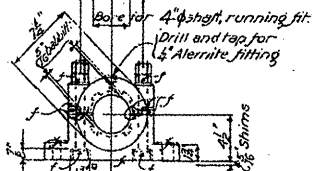
Note B Holes for 1/2" turned bolts. Drill in shop for light driving fit with castings in place.

Horizontal Line E1.558.34

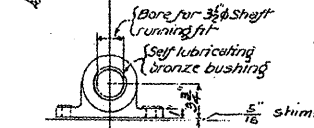


VIEW D-D SECTION K-K BEARING FOR CRANK 4 REQ'D. CAST STEEL

Drill 1/2" holes in shop. Ream after assembly in field for light driving fit on 1/2" turned bolts. Drill for 1/2" turned bolts, light driving fit.

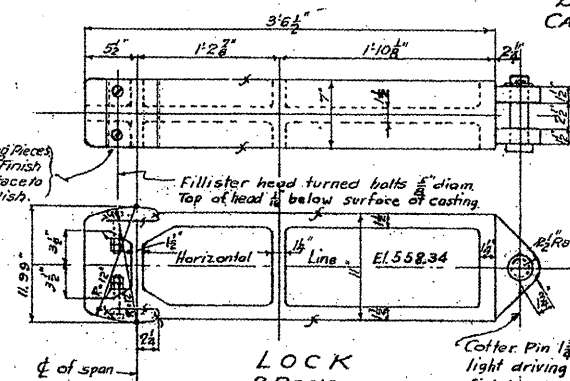


Drill 3/8" holes in shop. Ream after assembly in field for light driving fit on 3/8" turned bolts.

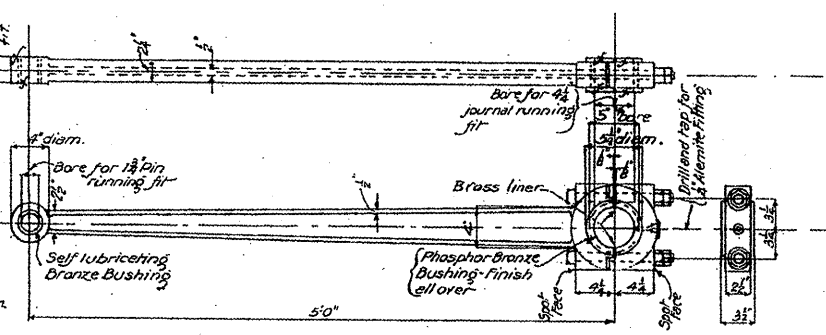


BEARING & SHAFT 3 REQ'D. CAST STEEL

2 Cast Iron Bearing Pieces light driving fit. Finish the wearing surface to 10' radius and polish.

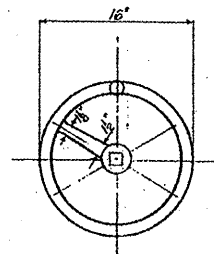


LOCK 2 REQ'D. CAST STEEL



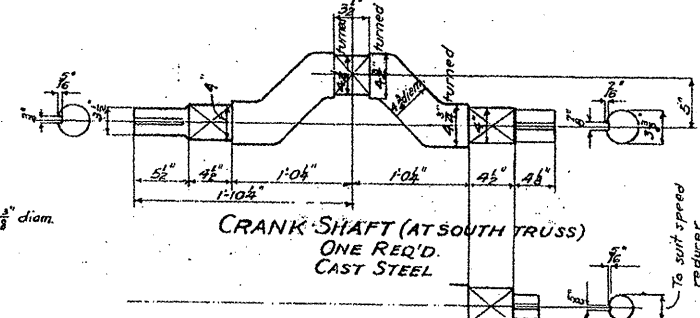
CONNECTING ROD 2 REQ'D. CAST STEEL

Note: For general machinery notes see Sheet No. 46.



HAND WHEEL ONE REQ'D. CAST STEEL

Make square hole for sliding fit on shaft of speed reducer so that hand wheel may be removed and stored when not in use.



CRANK SHAFT (AT SOUTH TRUSS) ONE REQ'D. CAST STEEL



CRANK SHAFT (AT NORTH TRUSS) ONE REQ'D. SAME AS AT SOUTH TRUSS EXCEPT AS SHOWN

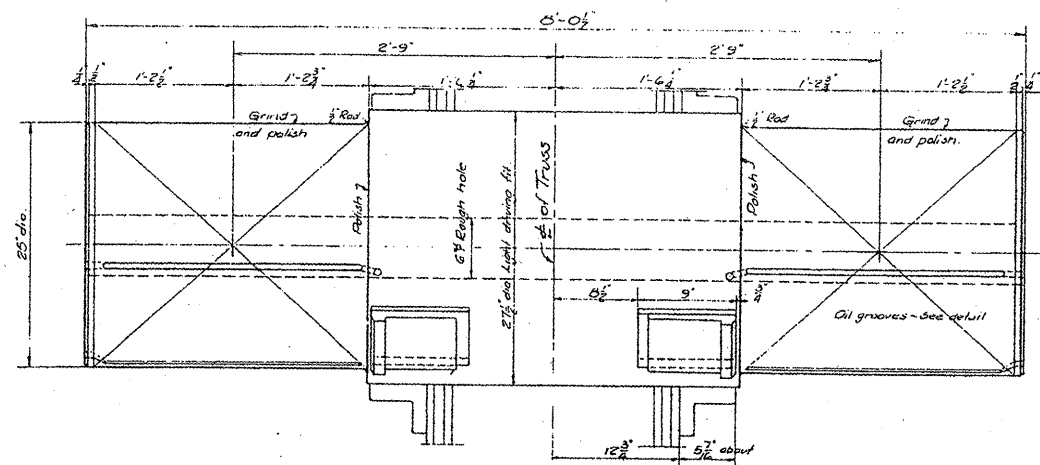
FOR INFORMATION ONLY

CENTER LOCK CASTINGS
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST., JOLIET, ILL.

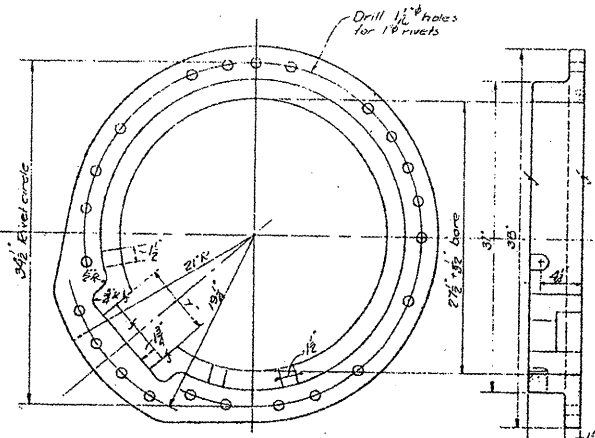
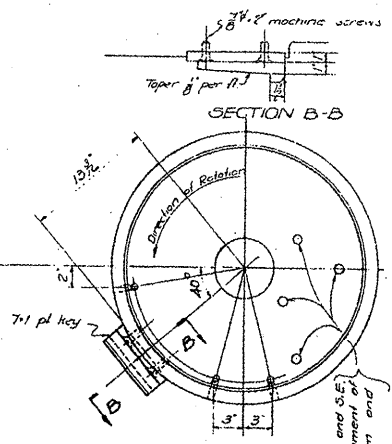
DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONMADOCK BLOCK, CHICAGO, ILL.

DRAWN BY E.A.H.
CHECKED BY E.A.H. & J.E.
CHECKED BY J.E.
SCALE: 1/2" = 1'-0"
DATE: APRIL 25, 1928
SHEET NO. 1343-43

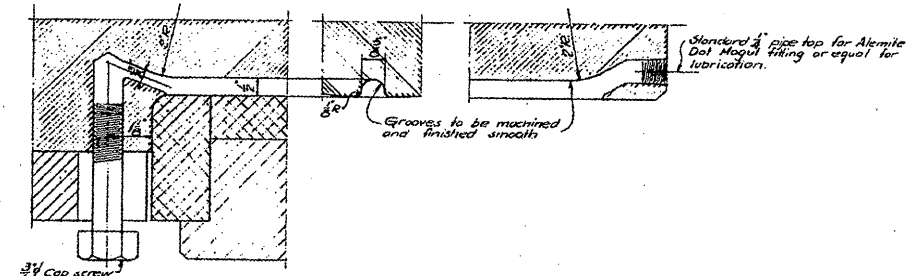
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|--|--------------------|------------|-------------|---|---|---------------------------|---------|--------|--------------|-----------|--|
| FILE NAME = | USER NAME = midyja | DESIGNED - | REVISIONS - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER SN 099-9901 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| ea:\pwwork\pwwdot\midyja\08148931\dl1150 | midyja.dgn | DRAWN - | REVISIONS - | | | 112 | M-BDR-1 | WILL | 66 | 33 | |
| PLOT SCALE = 1/8" = 1'-0" | | CHECKED - | REVISIONS - | | | CONTRACT NO. 62714 | | | | | |
| PLOT DATE = 6/27/2009 | | DATE - | REVISIONS - | | | ILLINOIS FED. AID PROJECT | | | | | |



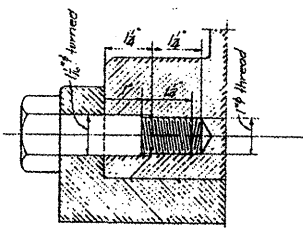
TRUNNION
CARBON STEEL FORGING - FINISH ALL OVER
Scale 1/8" = 1'-0"



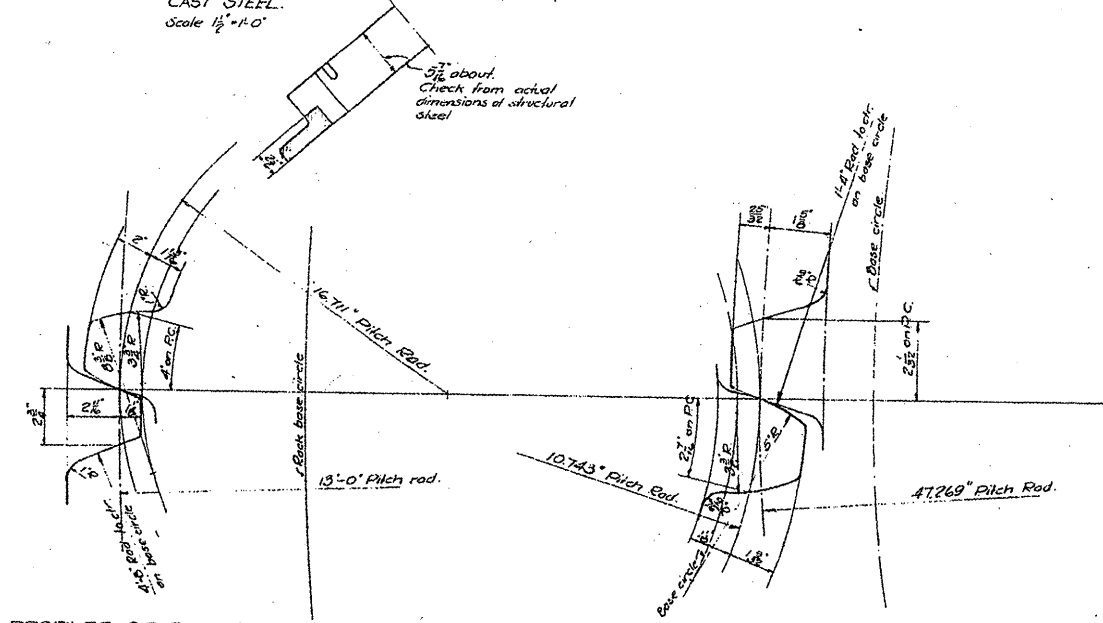
TRUNNION COLLAR
CAST STEEL
Scale 1/8" = 1'-0"



OIL GROOVES IN TRUNNION
Scale 1" = 1'-0"

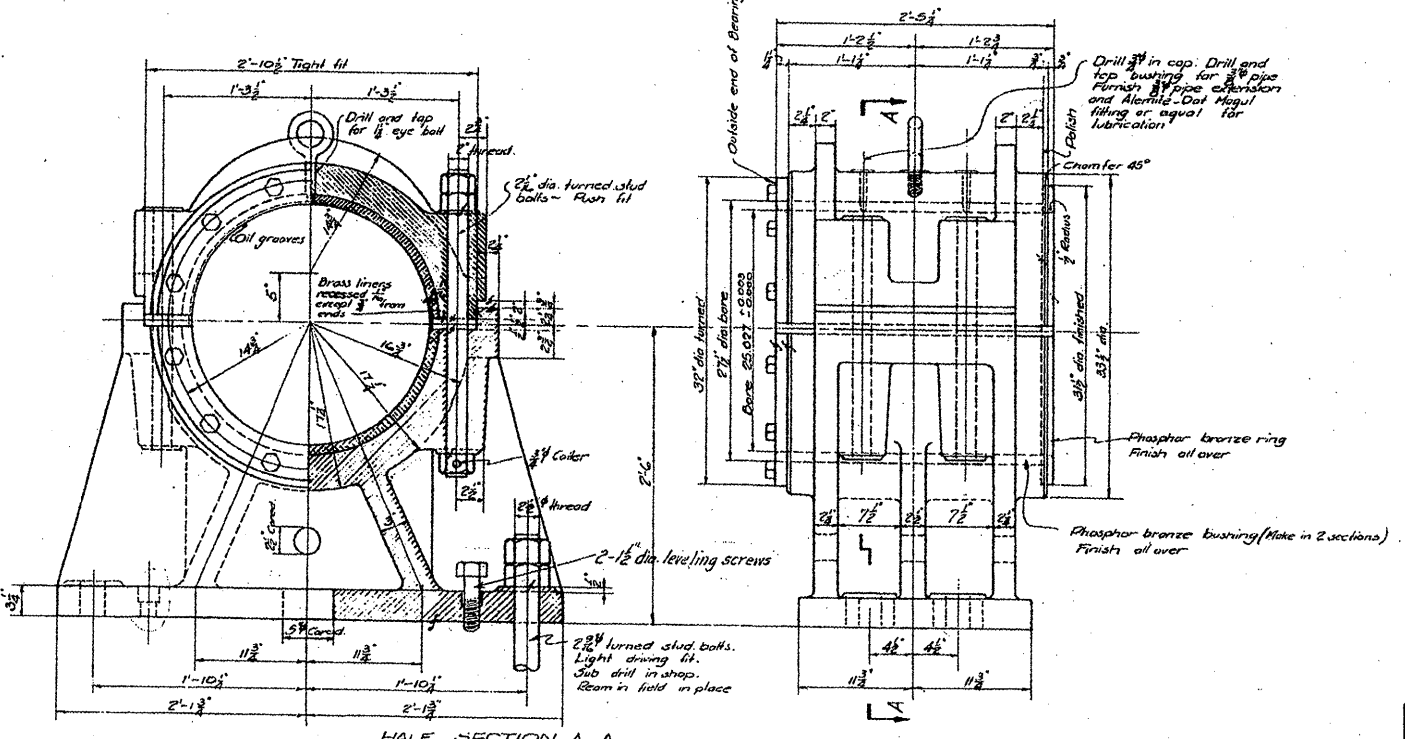


METHOD OF FASTENING
BUSHING TO BEARING



PROFILES OF RACK AND PINION 'A' TEETH
20° INVOLUTE TEETH
Scale 3" = 1'-0"

PROFILES OF GEAR 'B' AND DINION 'C' TEETH
20° INVOLUTE TEETH
Scale 6" = 1'-0"



HALF SECTION A-A
TRUNNION BEARINGS
CARBON STEEL CASTINGS
Scale 1/8" = 1'-0"

FOR INFORMATION ONLY

TRUNNIONS AND BEARINGS
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST JOUET, ILL.

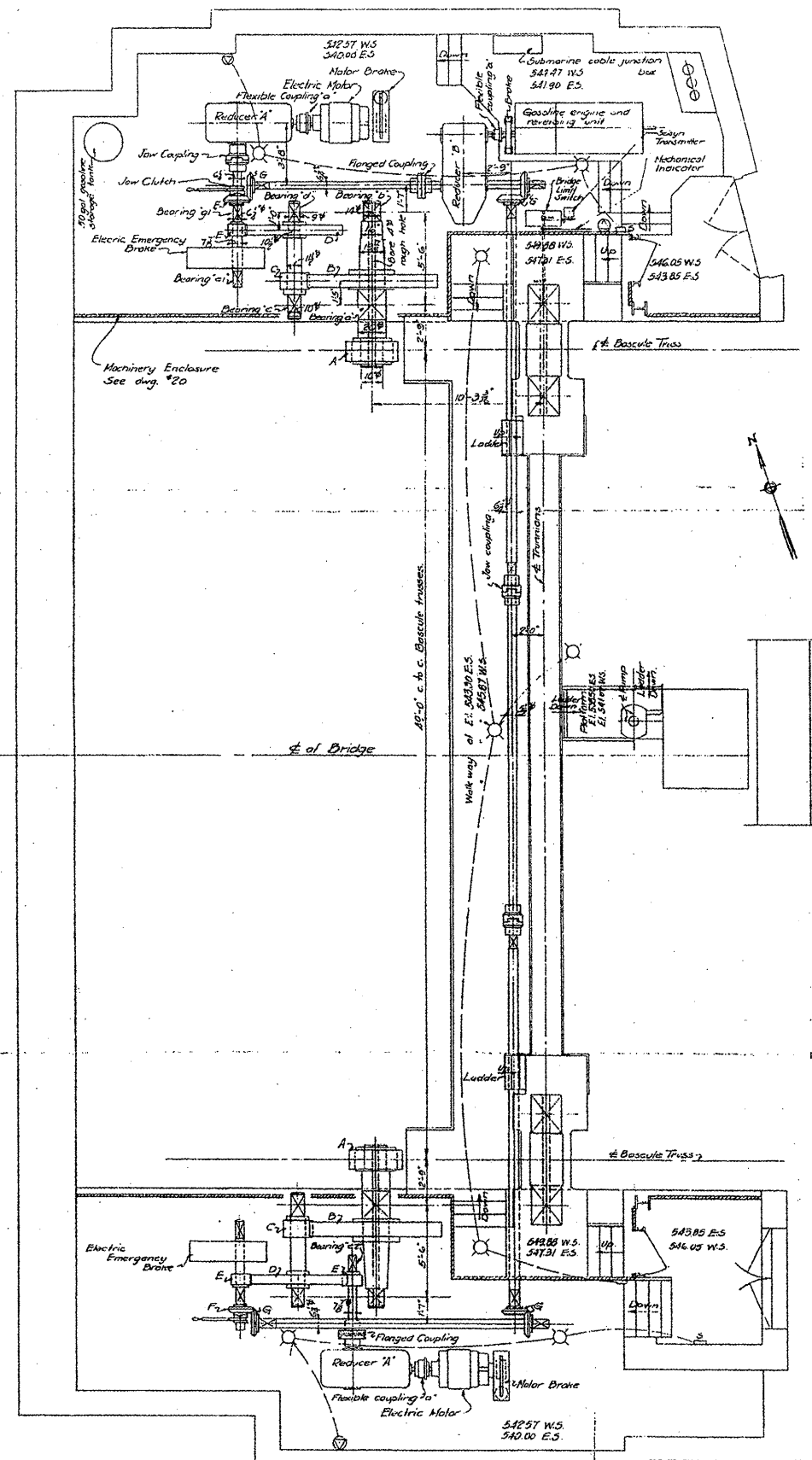
DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONROE BLOCK, CHICAGO, ILL.

DRAWN BY L.E.
TRACED BY A.D.
CHECKED BY L.E.
REVISED SEPT. 11, 1933.

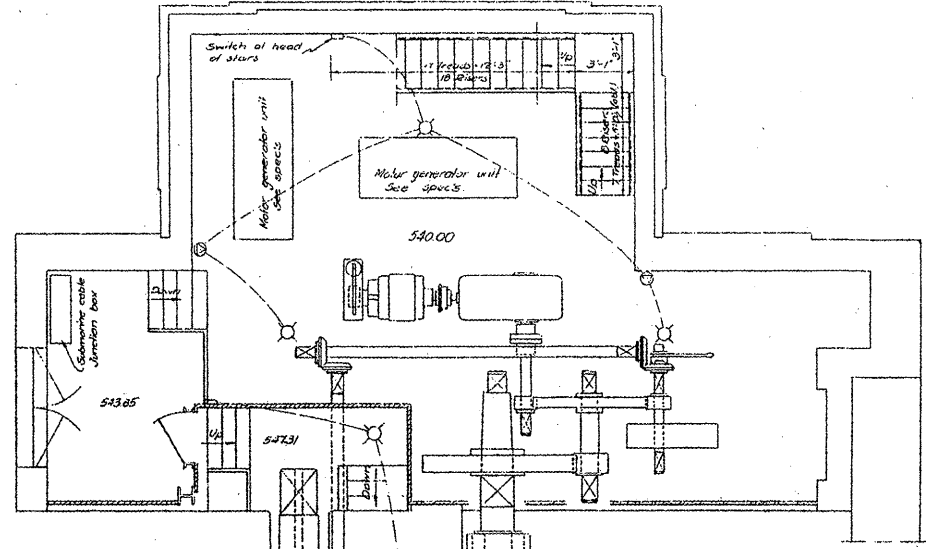
SCALE: AS NOTED
DATE: FEB. 23, 1933

SHEET NO. 1343-48

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|--|------------------------------|------------|-----------|---|---|---------------------------|---------|--------|--------------|-----------|--|
| FILE NAME = | USER NAME = midyjo | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER SN 099-9901 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| ca:\pv_work\PWIDOT\MJDYJA\014893\VD11150 | shst-plerudgn | DRAWN - | REVISED - | | | 112 | M-BOR-1 | WILL | 66 | 34 | |
| | PLOT SCALE = 103.1218' / IN. | CHECKED - | REVISED - | | | CONTRACT NO. 62714 | | | | | |
| | PLOT DATE = 7/1/2009 | DATE - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | |



PLAN OF OPERATING MACHINERY - WEST LEAF
EAST LEAF SAME BY ROTATION Scale 1/4" = 1'-0"



PLAN OF MACHINERY SHOWING LOCATION OF MOTOR GENERATOR UNITS
NORTH SIDE OF EAST LEAF Scale 1/4" = 1'-0"

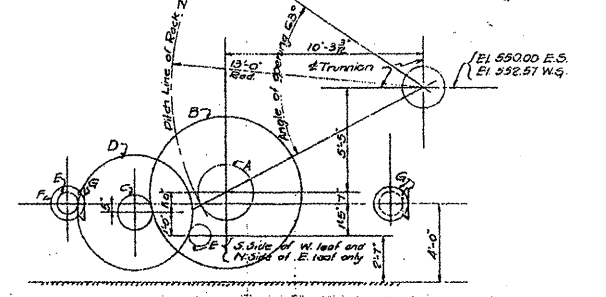


DIAGRAM OF GEARS

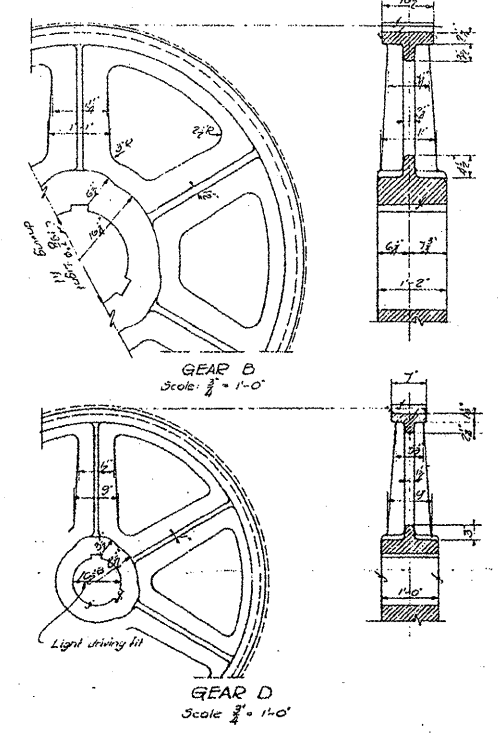
TABLE OF GEARS - PER LEAF

| GEAR | HAZARD | NOTE | PITCH | PITCH DIA. | FACE | TEETH | KEYS PER GEAR |
|------|--------|------|------------|------------|-------|--|-----------------|
| A | 2 | 29 | 7 C.P. | 26'-0" | 1'-3" | Special 20° Involute (see detail sh. 44) | 2-2 1/2 x 2 1/2 |
| B | 2 | 15 | 7 C.P. | 33'-2" | 1'-2" | do | 2-2 x 2 1/2 |
| C | 2 | 15 | 4 1/2 C.P. | 21'-8" | 11" | do | 2-1 1/2 x 1 1/2 |
| D | 2 | 75 | 3 C.P. | 71'-6" | 7" | Standard 20° Involute sh. 1/2 | 2-1 1/2 x 1 1/2 |
| E | 3 | 15 | 3 C.P. | 13'-2" | 7" | do | 1-1 1/2 x 1 1/2 |
| F | 2 | 22 | 1 D.P. | 22" | 4" | 1 1/2" standard | Loose on shaft |
| G | 2 | 22 | 1 D.P. | 22" | 4" | do | 2-1 1/2 x 1 1/2 |

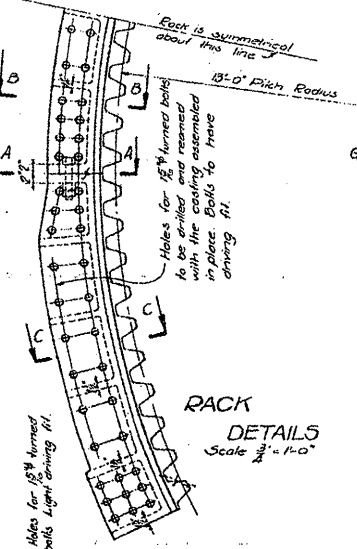
* Bevel gears

EQUIPMENT

- Motor Generator Units: 75 H.P. A.C. Motor, 3 Ph. G.O.C., 440V. and generator G.E. Co. or equal.
 - Operating Motors: 50 H.P. @ 250 R.P.M. D.C. Motor, 230V. G.E. Co. Frame # CO 1030 or equal. Torque requirements: 550' for 2 min. - 1000' momentarily.
 - Motor Drives: G.E. floor mounted Thruster Brake # CR 9516-464 or equal. Retarding torque 375'. Provide interlocked hand release.
 - Electric Emergency Brake: G.E. floor mounted Thruster Brake # CR 9516-467 or equal. Holding torque 6000'. Provide interlocked hand release.
 - Reducer A: Falk # 10 D.S. right angle speed reducer or approved equal. Reduction ratio 24 to 1. Speed reducer to be assembled with motor on C.I. or welded steel bed plates. Price of some to be included in lump sum price for speed reducers. Ded ps. to be of minimum width and length.
 - Reducer D: Falk # 11 DA parallel shaft speed reducer with equalizer or approved equal. Reduction ratio 10 to 1.
 - Gasoline engine, reversing unit and brake: 33 H.P. @ 300 R.P.M. gasoline engine with reversing unit having 7 to 5 reduction ratio and attached brake of 250' holding torque. Norwood-Norton Co. unit # 55-1 or approved equal. This unit shall be furnished complete with all accessories.
 - Flexible coupling "a": Falk # 3 or equal.
- Note: Manufacturers of speed reducers shall furnish complete details of the speed reducers for approval. Complete details of the gasoline engine reversing units and attached brakes shall be furnished.



GENERAL NOTES:
 Pinion A may be made of cast steel all other pinions shall be forged.
 All castings and forgings shall be made of steel and shall be annealed.
 All gear pinions and racks shall have machine cut teeth and pitch lines plainly marked on both sides.
 All shafts over 3" shall be forged. Others may be cold rolled.
 Six lead tapered keys shall be used where possible.
 Thickness of keys given are for small end.
 Shafts of turned bolts shall be 1/8" longer than the threaded ends and shall have lock nuts unless otherwise noted.
 All bearings shall be provided with Alemite-Dot Magul fittings or equal and grooved for lubrication except where self lubricating bushings are specified.
 Dabbified bearings shall have slotted cores.
 All couplings are to be furnished by machinery contractor.



FOR INFORMATION ONLY

OPERATING MACHINERY
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET, ILLINOIS

DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY ALND
 TRACED BY A.D.
 CHECKED BY EE

SCALE: AS NOTED
 DATE: FEB. 21 1933
 SHEET NO. 1243

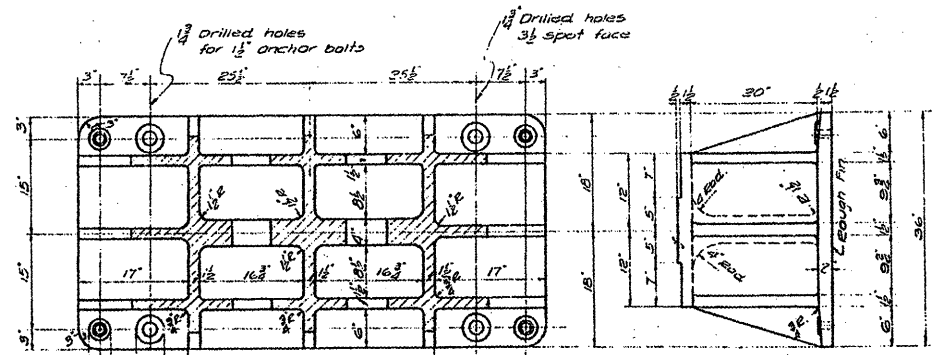
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| FILE NAME = | USER NAME = mdyjo | DESIGNED - | REVISED - |
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| PLDT SCALE = 1/83.1218' / IN. | | CHECKED - | REVISED - |
| PLDT DATE = 6/27/2009 | | DATE - | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

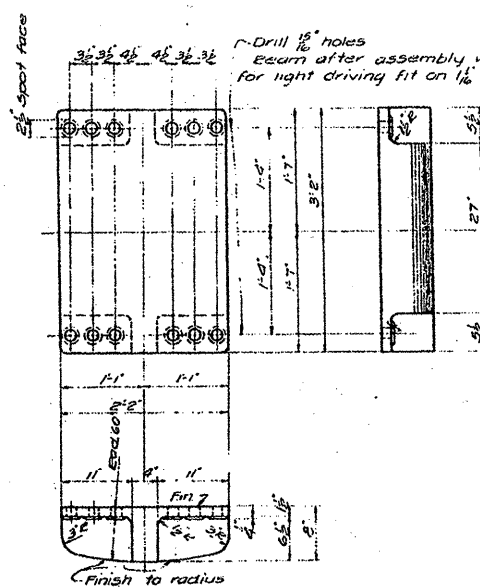
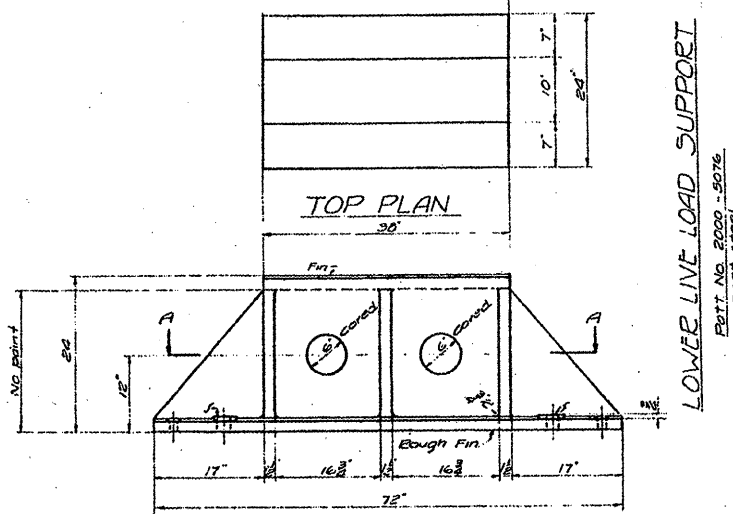
RUBY STREET OVER DES PLAINES RIVER
 SN 099-9901

SCALE: SHEET NO. 26 OF 30 SHEETS STA. TO STA.

| | | | | |
|---------------------------|---------|--------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 112 | M-BDR-1 | WILL | 66 | 35 |
| | | | CONTRACT NO. 62714 | |
| ILLINOIS FED. AID PROJECT | | | | |

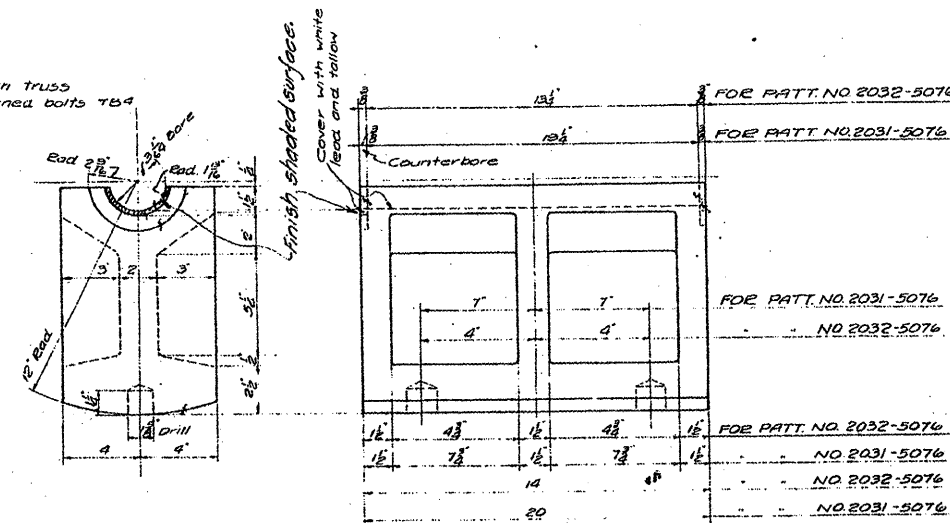


SECTION A-A

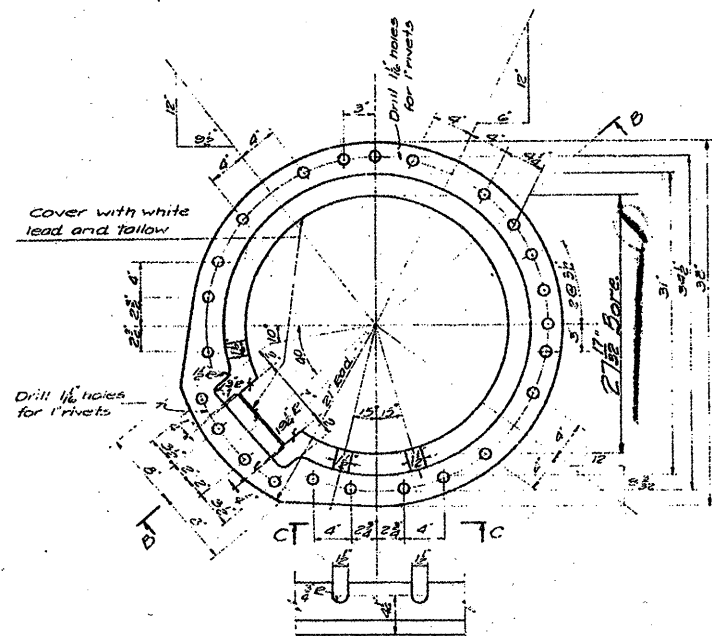


UPPER LINE LOAD SUPPORT

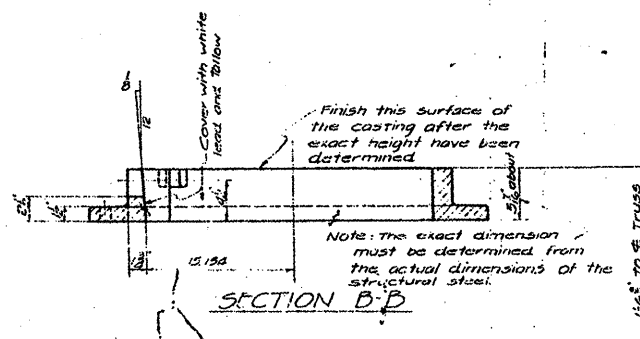
Patt. No. 2001-5076
 Cast Steel



ROCKE
 PATT. NO. 2031-5076
 PATT. NO. 2032-5076
 CAST STEEL



ELEVATION C-C
 DEVELOPED



TRUNNION COLLAR
 PATT. NO. 2002-5077, Eight hand
 PATT. NO. 2003-5077, Left hand
 CAST STEEL

FOR INFORMATION ONLY

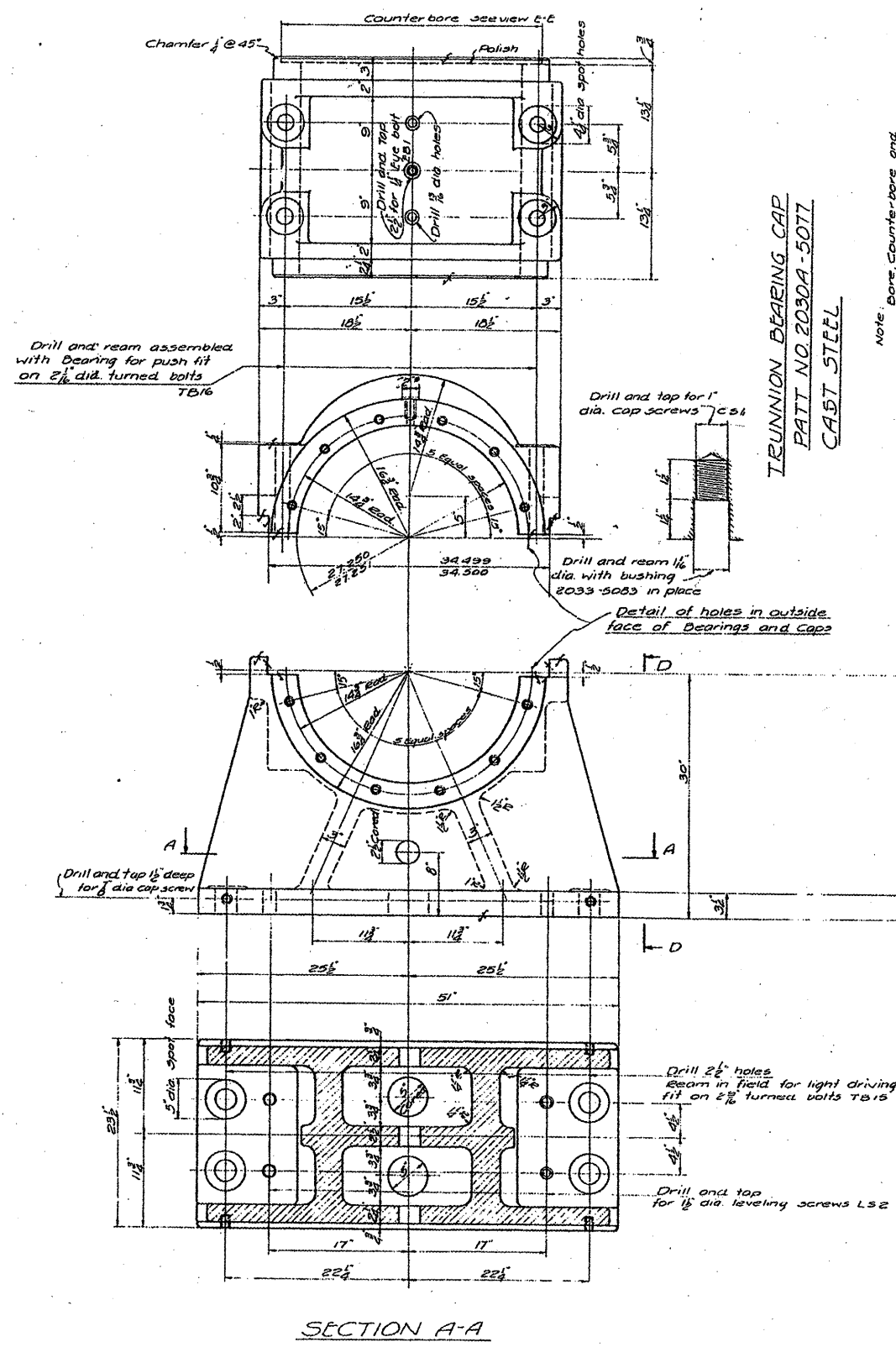
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| PLOT SCALE = 183.1218 "/ IN. | | CHECKED - | REVISED - |
| PLOT DATE = 7/1/2009 | | DATE - | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER
 SN 099-9901

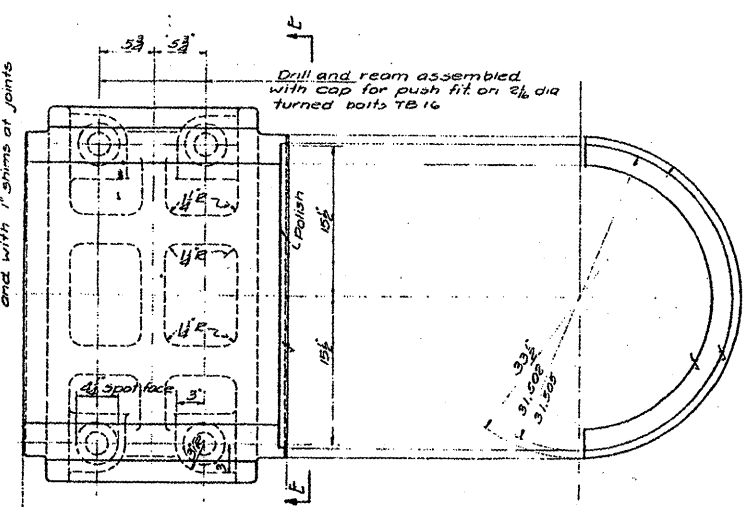
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| F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 36 |
| SCALE: | SHEET NO. 27 OF 30 SHEETS | STA. TO STA. | ILLINOIS FED. AID PROJECT | |

| | | | | |
|--------------------|-----------------|-------------|-----------------|--------------|
| F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 36 |
| CONTRACT NO. 62714 | | | | |

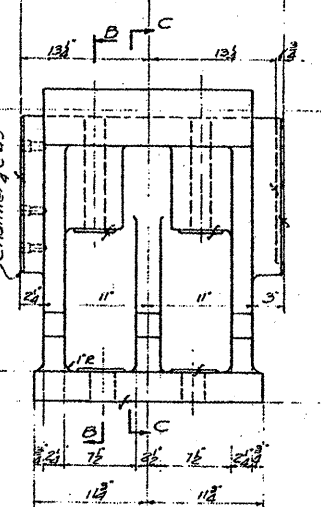


TRUNNION BEARING CAP
 PATT NO. 2030A-5077
 CAST STEEL

Note: Bore, counter-bore and face ends of casting with bearing and caps assembled and with 1/8 shims at joints



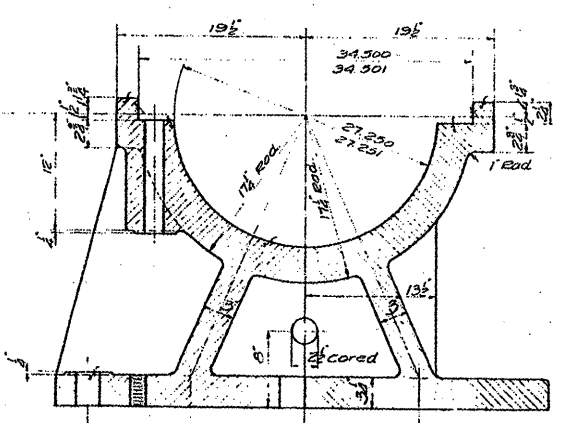
VIEW E-E



VIEW D-D

TRUNNION BEARING
 PATT NO. 2030-5077
 CAST STEEL

NOTE: Match mark bearings, caps, bushings and shims and ship assembled. Cover finished surfaces with white lead and tallow.



HALF SECT B-B HALF SECT C-C

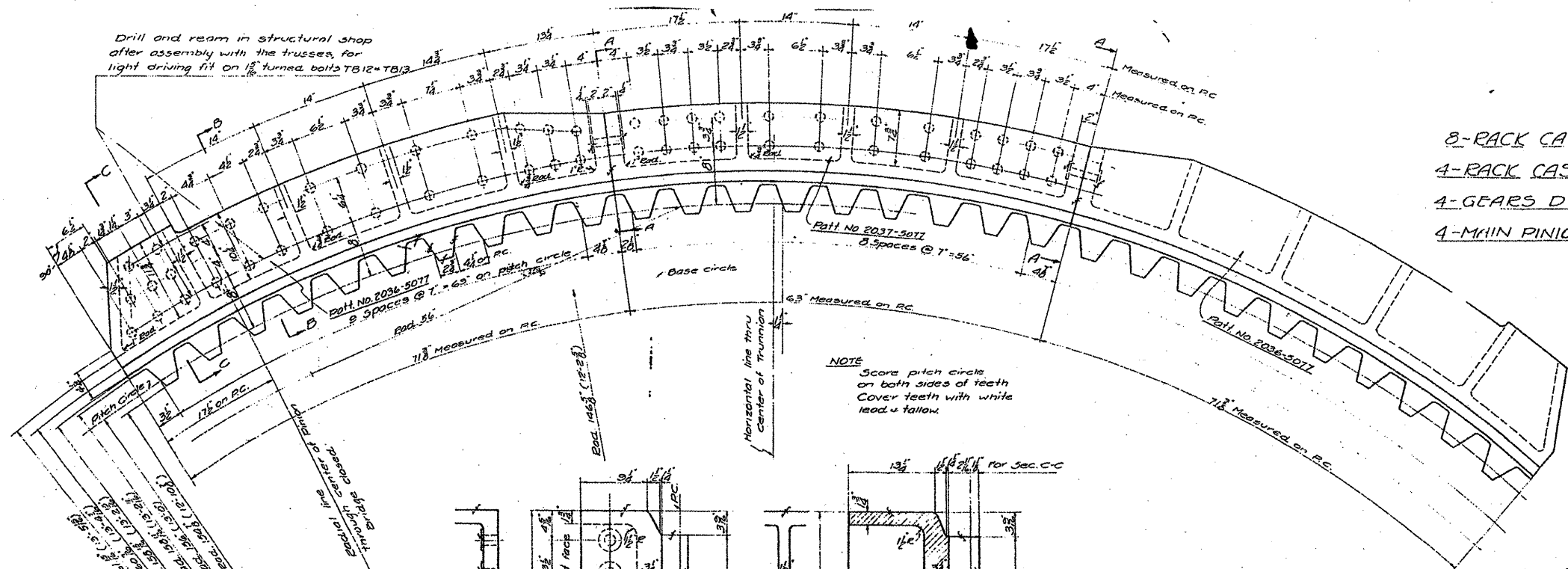
FOR INFORMATION ONLY

REQUIRED LIST

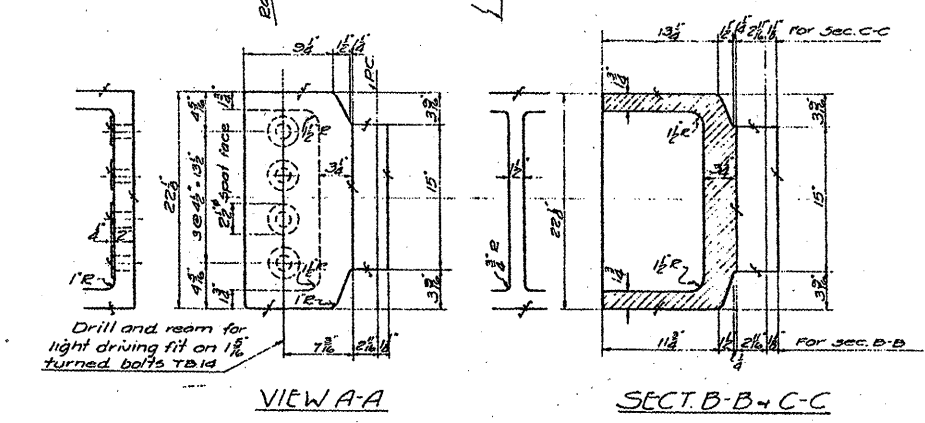
- 8-TRUNNION BEARINGS PATT NO. 2030-5077
- 8- " BEARING CAPS PATT NO. 2030A-5077

NOTE: All castings to be Class B Medium grade - annealed A.S.T. MAR 27-24 Std. 1930

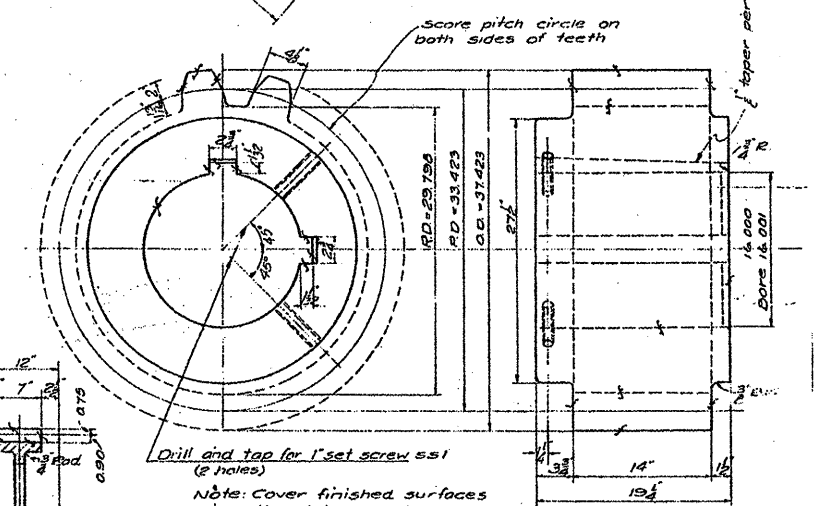
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| FILE NAME = | USER NAME = mdyje | DESIGNED - RTB | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER SN 099-9901 | F.A.P. RTE. = | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| or:\pwwork\PIWIDOT\MIDYJA\014893\ND11150 | ght-plandgn | DRAWN - | REVISED - | | | 112 | M-BDR-1 | WILL | 66 | 37 |
| | PLOT SCALE = 1/83.1218" / IN. | CHECKED - | REVISED - | | | CONTRACT NO. 62714 | | ILLINOIS FED. AID PROJECT | | |
| | PLOT DATE = 7/1/2009 | DATE - | REVISED - | | | SCALE: | SHEET NO. 28 OF 30 SHEETS | STA. | TO STA. | |



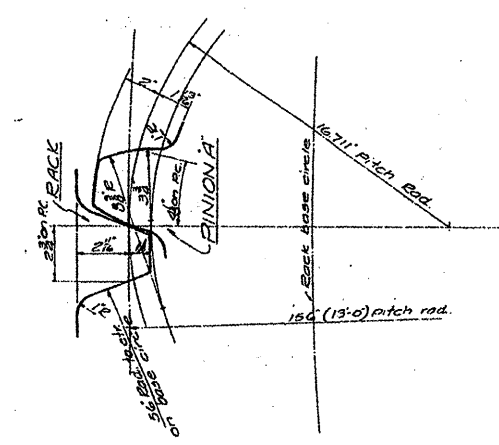
- REQUIRED
- 8-RACK CASTINGS PATT. NO. 2036-5077
 - 4-RACK CASTINGS PATT. NO. 2037-5077
 - 4-GEARS D PATT. NO. 2038-5077
 - 4-MAIN PINIONS PATT. NO. 2039-5077



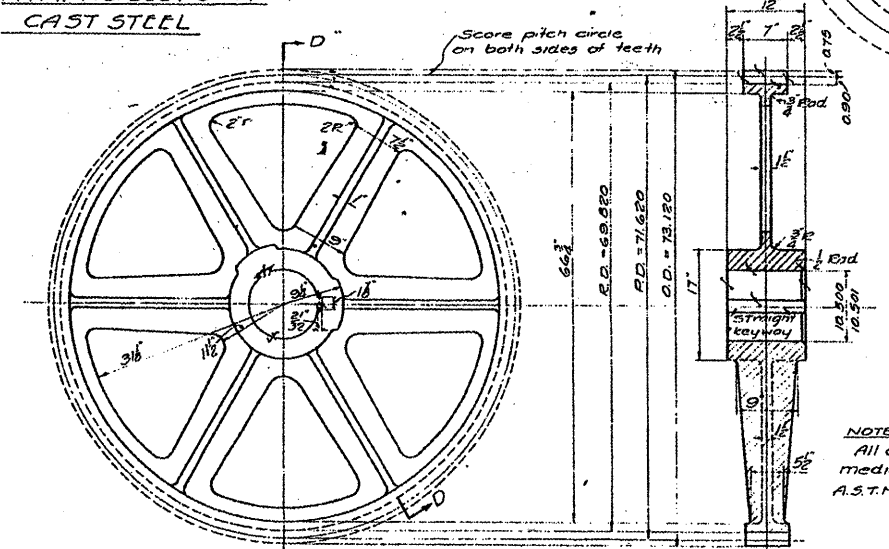
RACK CASTINGS
PATT. NO. 2036-5077
PATT. NO. 2037-5077
CAST STEEL



15 SPECIAL 20° INVOLUTE TEETH T.C.P.
MAIN PINION A
PATT. NO. 2039-5077 RIGHT & LEFT HAND
CAST STEEL



PROFILES OF RACK AND PINION A TEETH
20° INVOLUTE CUT TEETH



75 STD 20° INVOLUTE CUT STUB TEETH
3" C.P. PD = 71.620
GEAR D
PATT. NO. 2038-5077
CAST STEEL

SECTION D-D
 Note: Cover finished surfaces with white lead + follow.

FOR INFORMATION ONLY

| | | | | | | | | | | | |
|---|--------------------|----------------|-----------|---|---|---|---------|--------------------|--------------|-----------|--|
| FILE NAME = | USER NAME = midjjo | DESIGNED - RTB | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER SN 099-9901 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| ca:\pwwork\KPMIDOT\MDYJA\0148931\011150 | -sht-plen.dgn | DRAWN - | REVISED - | | | 112 | M-BDR-1 | WILL | 66 | 38 | |
| PLOT SCALE = 1/8" = 1'-0" | CHECKED - | REVISED - | REVISED - | | | SCALE: SHEET NO. 29 OF 30 SHEETS STA. TO STA. | | CONTRACT NO. 62714 | | | |
| PLOT DATE = 7/1/2009 | DATE - | REVISED - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | |

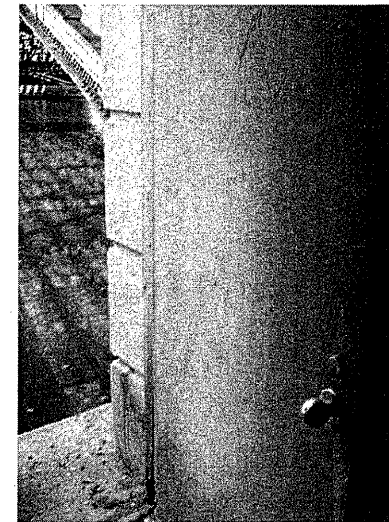


Mechanical Room Doors

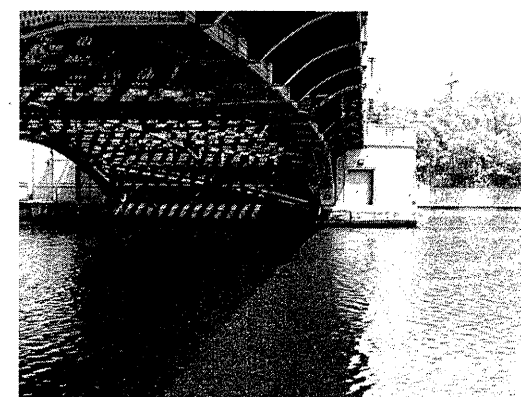
There are four sets of double doors (exterior) for the mechanical rooms on either side of the bridge that shall be painted.

There are two interior doors on each side (4 total) that shall be painted.

The fiberglass wall jackets will not need painting, but the interior of all the mechanical rooms walls need to be power washed/steam cleaned per Art. 592.03 of the "Standard Specifications". All mechanical and electrical equipment shall be protected. Cost of cleaning walls included in cost of "Bridge Tender House Rehabilitation".



NOTE: The door on the northwest side; exterior; the locks shall be replaced. Cost included in the cost of "Bridge Tender House Rehabilitation".



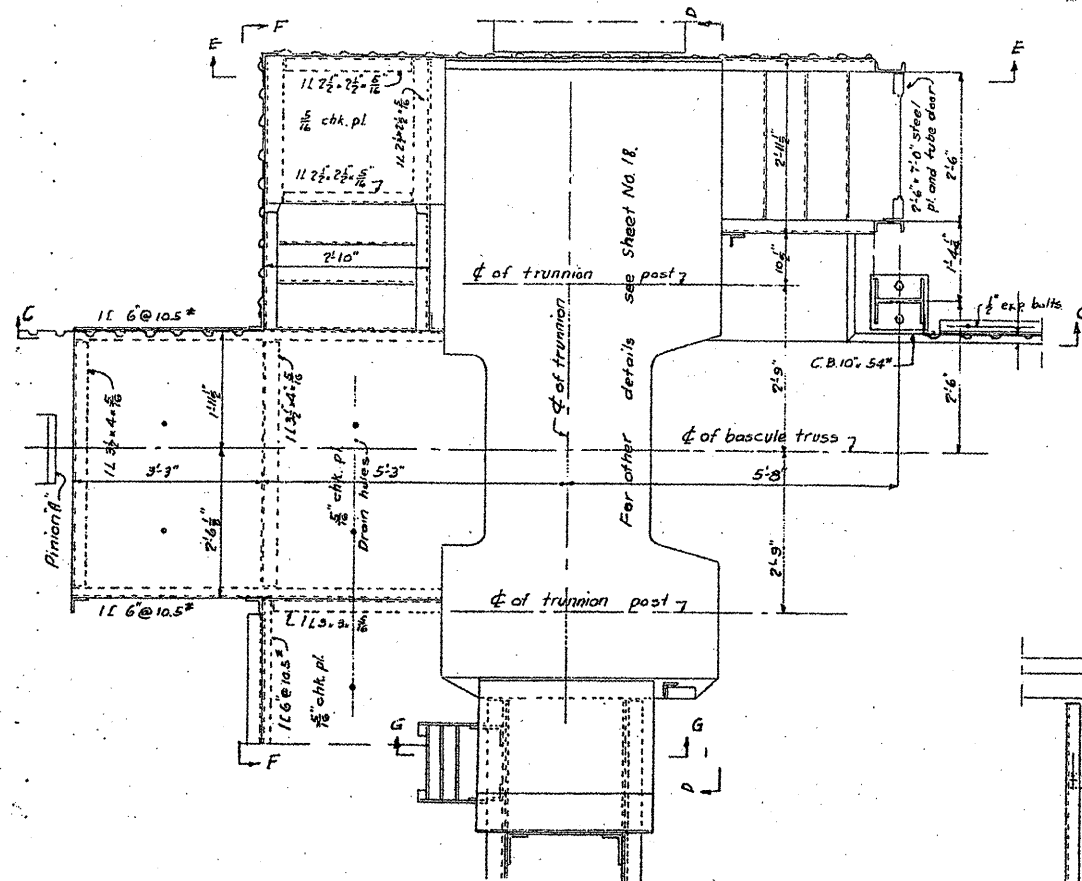
| | | | |
|--|------------------------------|----------------|-----------|
| FILE NAME = | USER NAME = mdyjo | DESIGNED - RTD | REVISED - |
| os:\pw_work\pw\dot\mdyjo\0148931\Design\ | | DRAWN - | REVISED - |
| | PLOT SCALE = 1/8" = 1' / in. | CHECKED - | REVISED - |
| | PLOT DATE = 7/11/2011 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

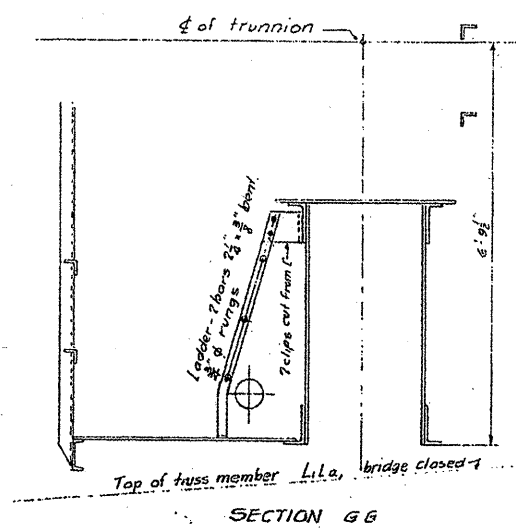
**RUBY ST OVER DES PLAINES RIVER
SN 099-9901**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

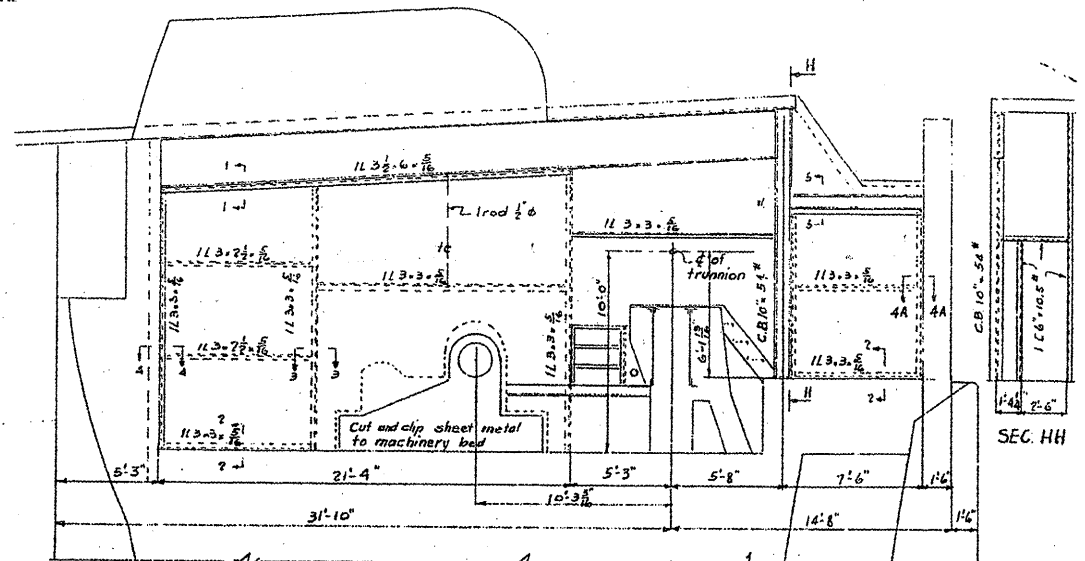
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|--------|--------------|-----------|
| 112 | M-BDR-1 | WILL | 66 | 38A |
| CONTRACT NO. 62714 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



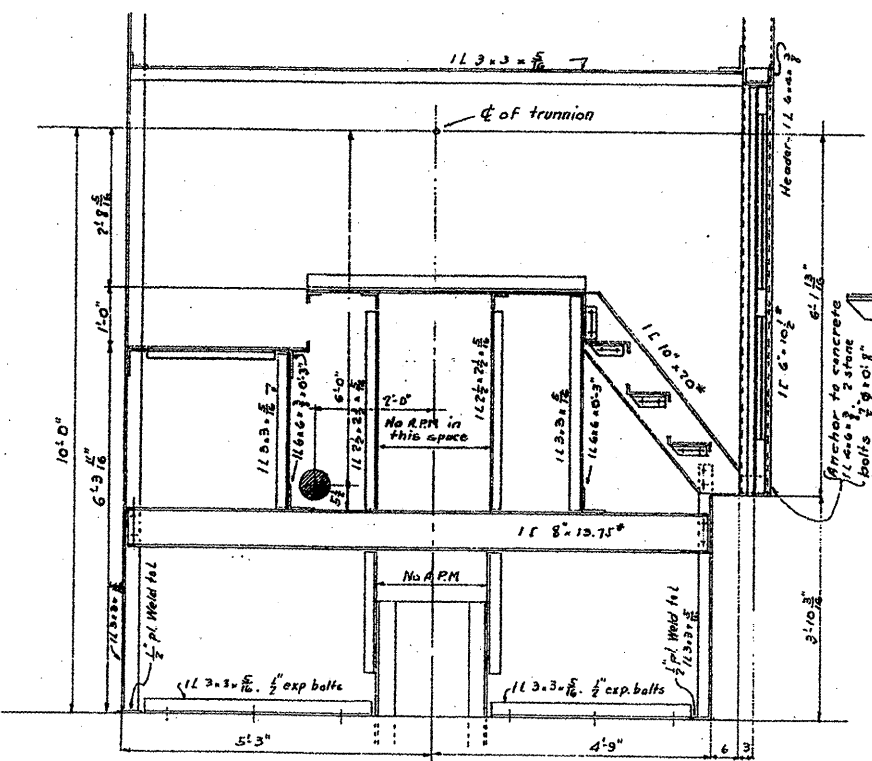
PLAN OF PLATFORMS AND STAIRS AT SOUTHEAST TRUNNION
OTHERS SIMILAR.



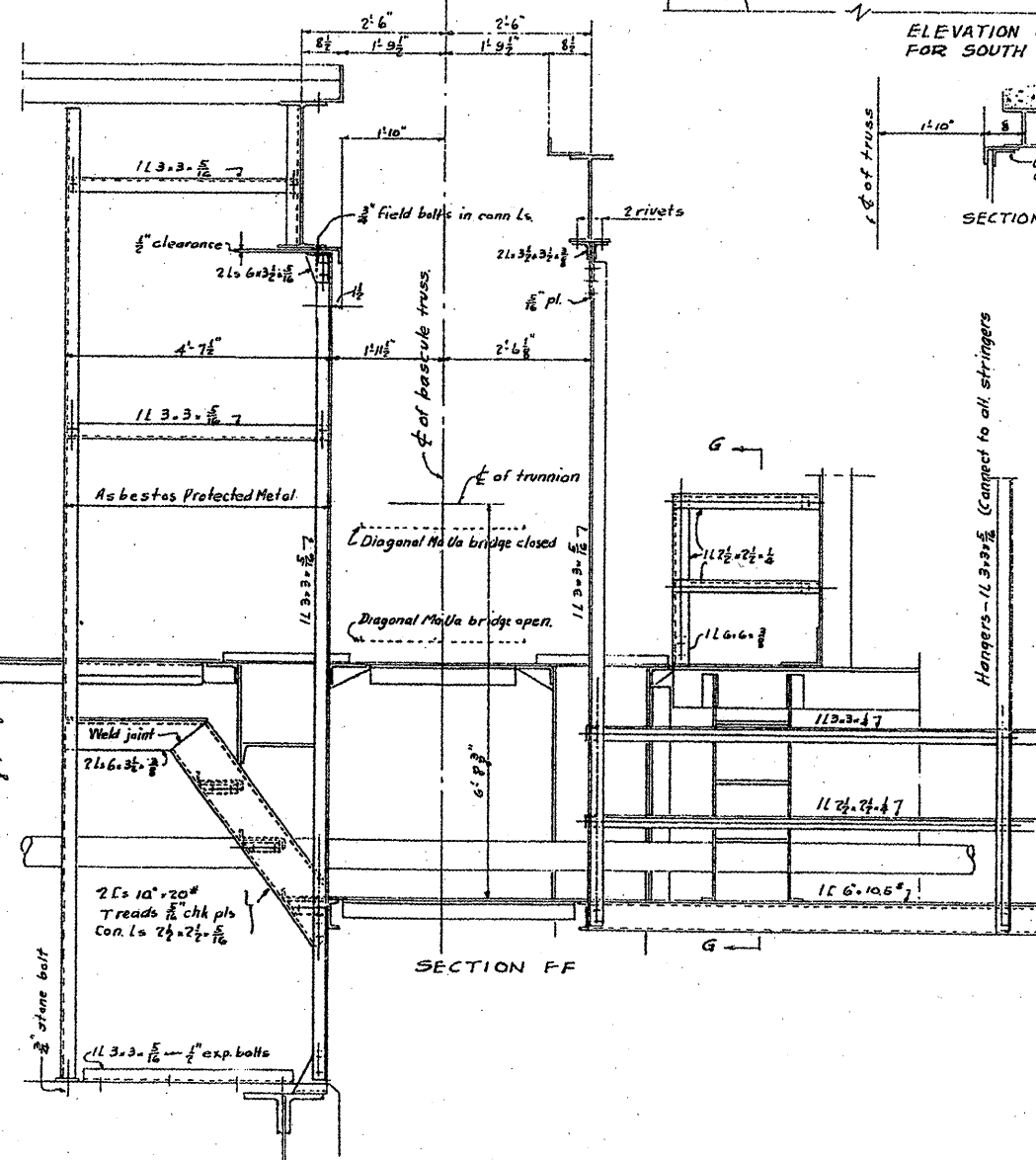
SECTION G G



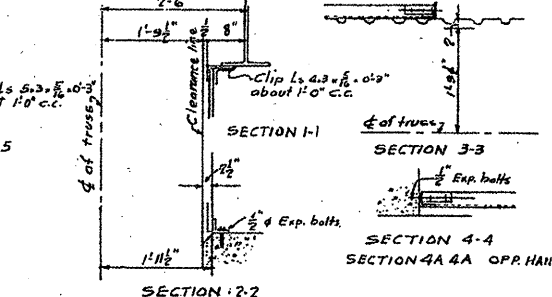
ELEVATION OF MACHINERY ENCLOSURE
FOR SOUTH SIDE OF EAST PIER. OTHERS SIMILAR



SECTION E E



SECTION F F



FOR INFORMATION ONLY

For Section C C, see Sheet No. 17
For Section D D see Sheet No. 18.

MACHINERY ENCLOSURES
PLATFORMS AND STAIRS
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST. JOLIET, ILL.

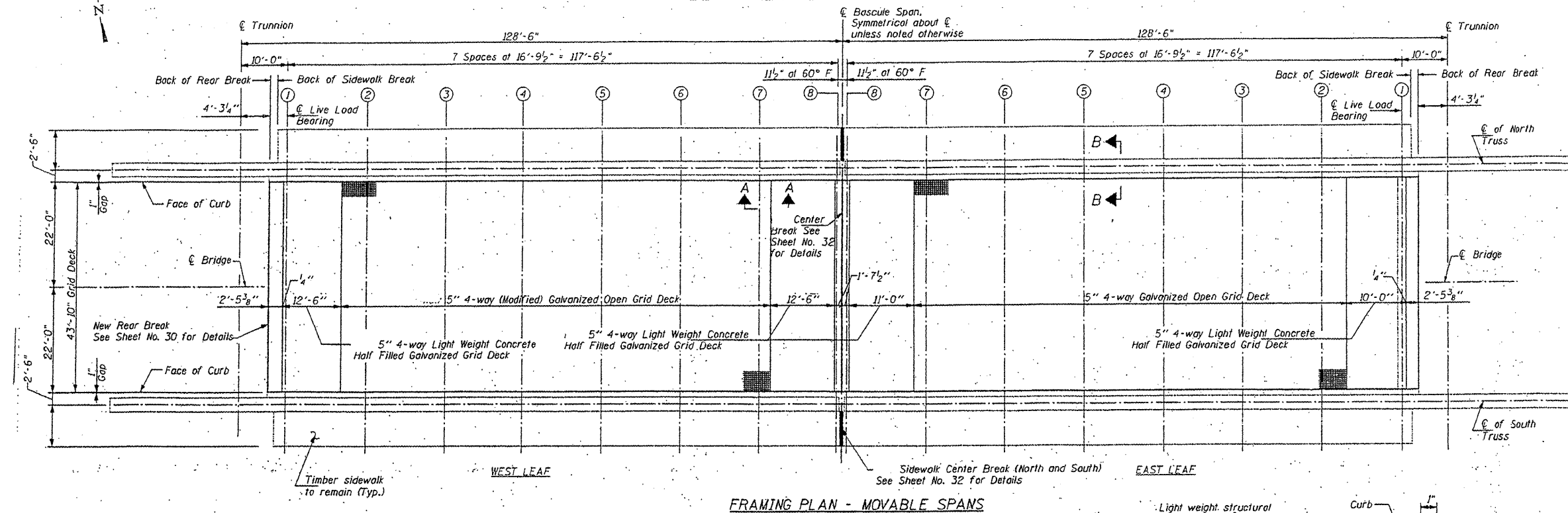
DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY A.L.R.
TRACED BY G.A.K.
CHECKED BY I.C.

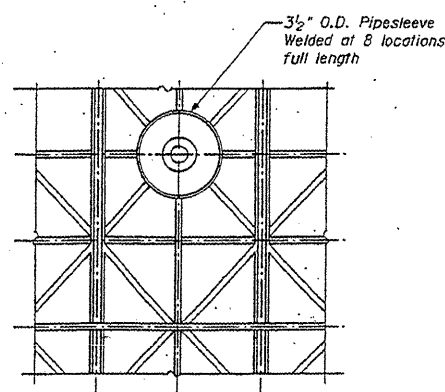
SCALE: 1/4\"/>

| | | | | | | | | | | |
|-----------------------|-------------------|------------|-----------|---|---|--------------------|---------|---------------------------|--------------|-----------|
| FILE NAME : | USER NAME = midjo | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER SN 099-9901 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| aa.dgn | | RTB | | | | 112 | M-BDR-1 | WILL | 66 | 39 |
| PLOT SCALE = 1/8\"/> | | | | | | | | | | |
| PLOT DATE = 6/27/2009 | | DATE | | | | CONTRACT NO. 62714 | | ILLINOIS FED. AID PROJECT | | |

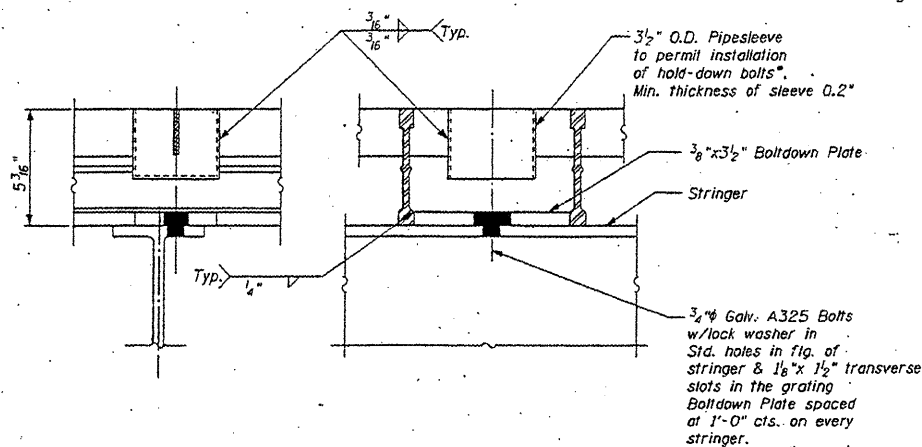
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



FRAMING PLAN - MOVABLE SPANS

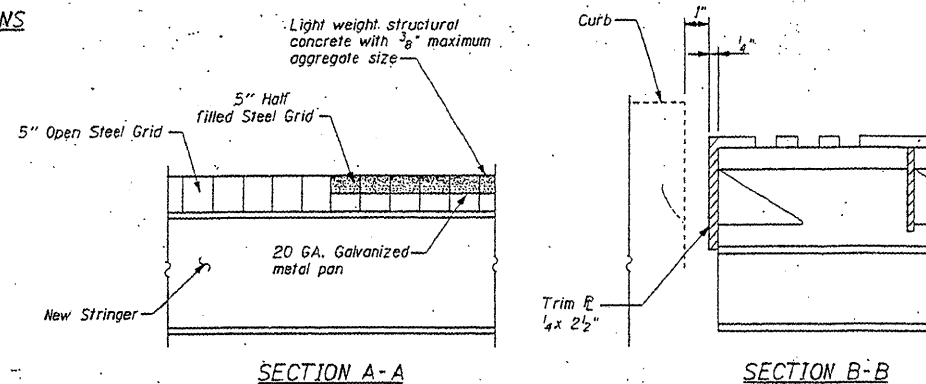


TYPICAL GRATING BOLTDOWN DETAIL



* Extend sleeve down and omit form pan to Boltdown Plate for Half-filled Grating

Note: Roadway markings shall also be restriped on the deck after the new grid is in place.



SECTION A-A

SECTION B-B

BILL OF MATERIALS

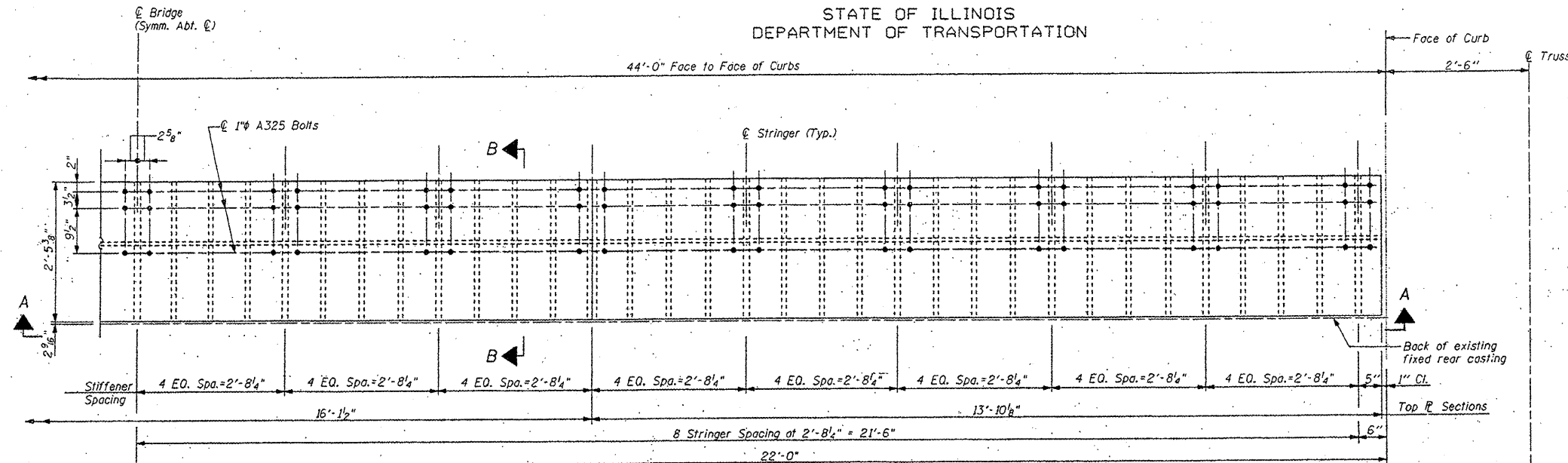
| ITEM | UNIT | QUANTITY |
|-------------------------|-------|----------|
| STEEL GRID DECK REPAIRS | L SUM | 1 |

MOVABLE PART
ROADWAY GRATING PLAN & DETAILS
RUBY STREET (F.A.P. 112) OVER
DES PLAINES RIVER
WILL COUNTY
STRUCTURE NUMBER 099-9901

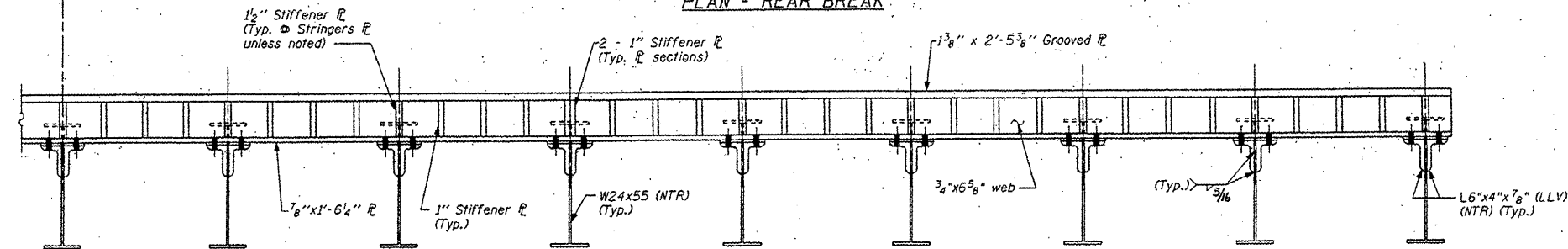
| | | | | | | | | | | | |
|---------------------------|-------------------|-----------------------|-----------|---|--|-----------------|-------------------------|-------------|-----------------|---------------------------|--------------------|
| FILE NAME = | USER NAME = mdgjo | DESIGNED - RDB | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER STEEL GRID DECK REPAIR | F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 40 | |
| DRAWN - | CHECKED - | DATE - | REVISED - | | | SCALE: | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT | CONTRACT NO. 62714 |
| PLOT SCALE = 1/8" = 1'-0" | | | | | | | | | | | |
| PLOT DATE = 6/23/2011 | | | | | | | | | | | |

REVISION 09/12/2011 VHV

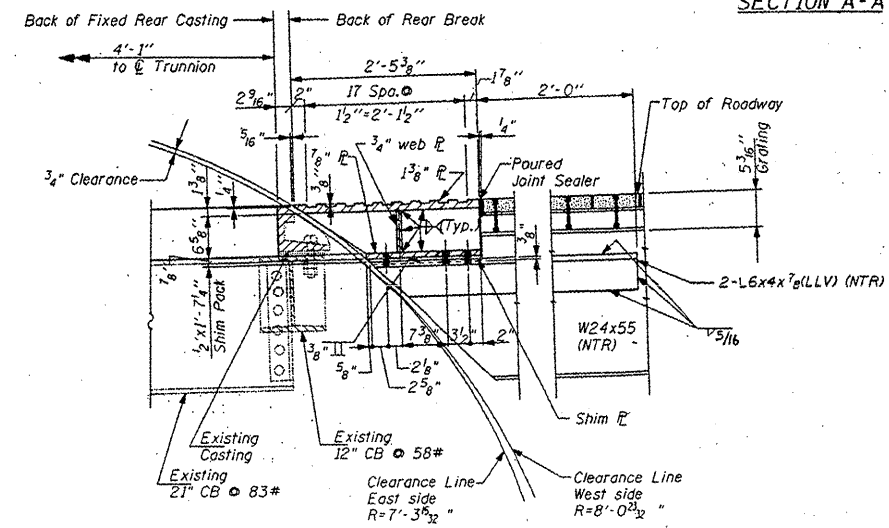
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN - REAR BREAK



SECTION A-A



SECTION B-B

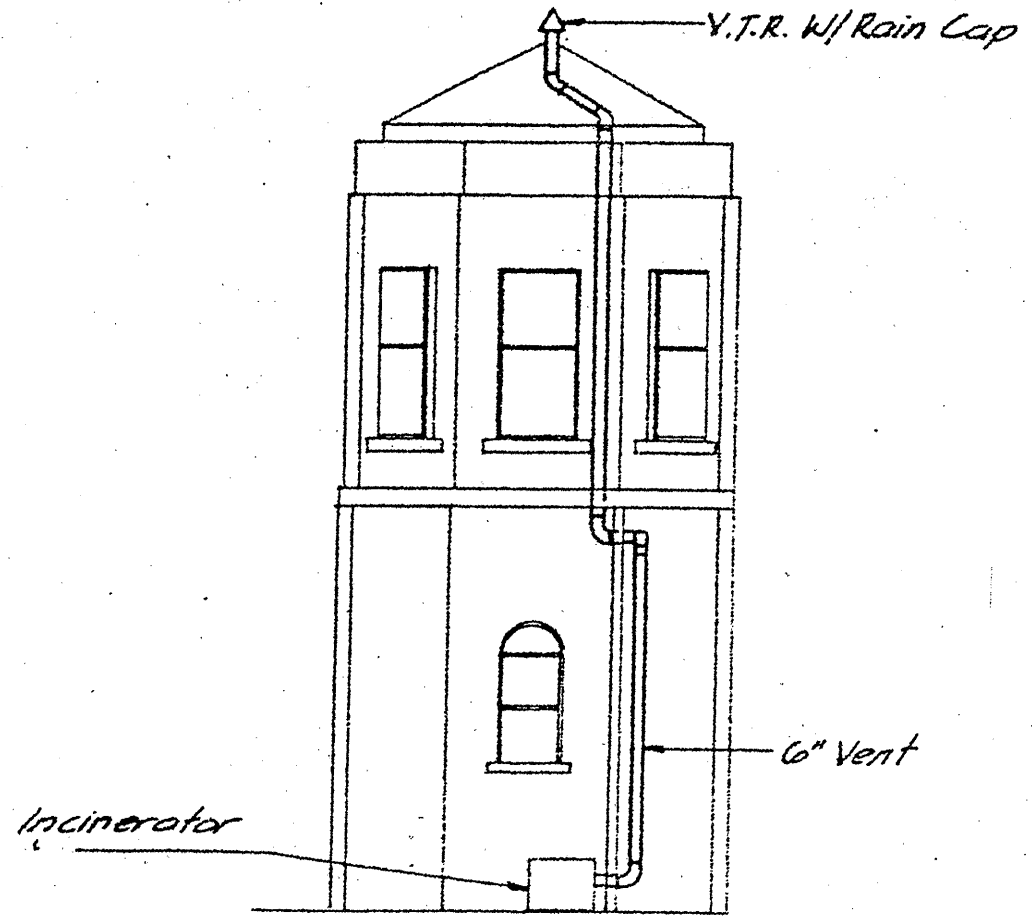
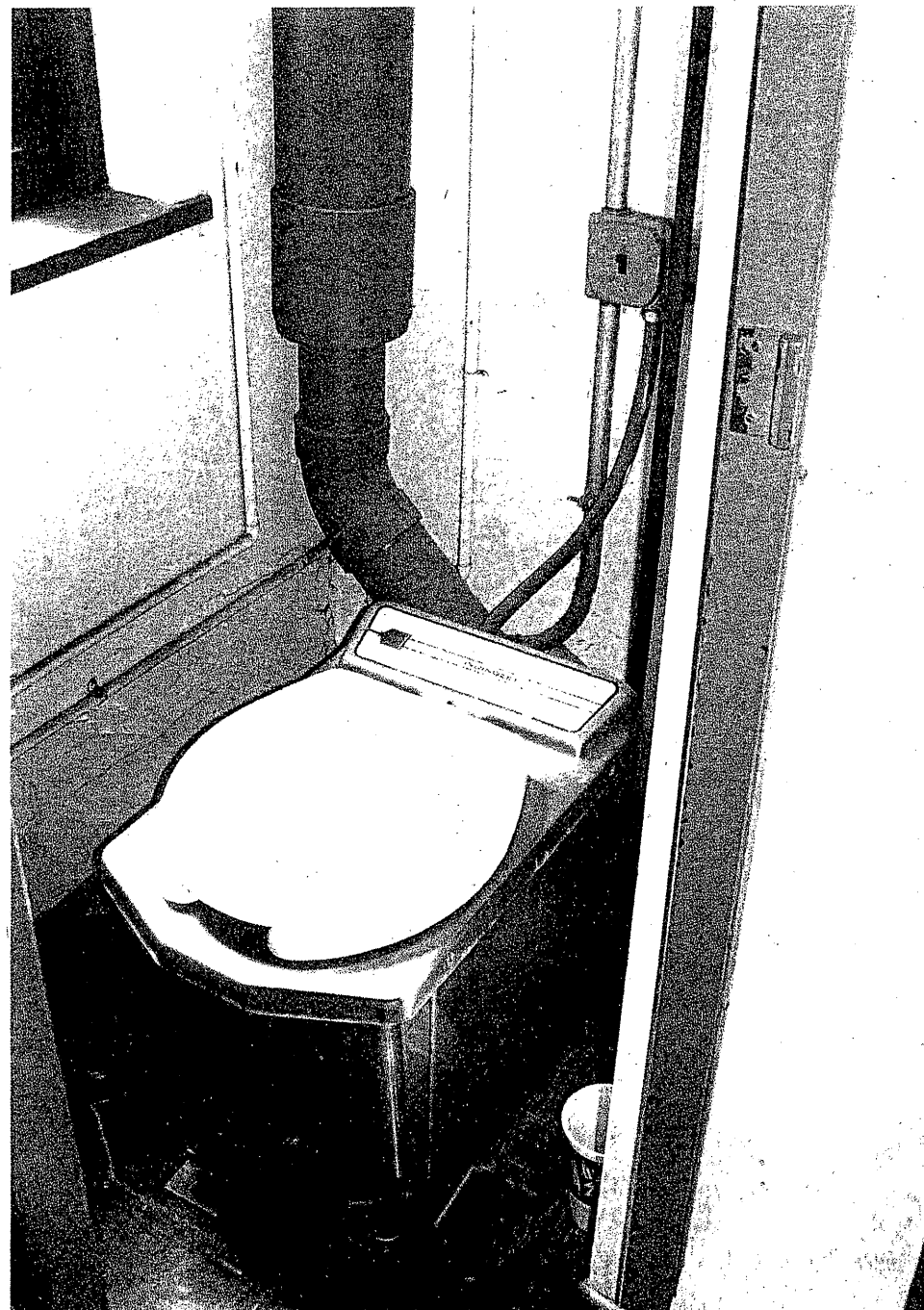
LEGEND
 (---) Existing member to remain
 (—) New member

MOVABLE PART
REAR BREAK DETAILS
RUBY STREET (F.A.P.112) OVER
DES PLAINES RIVER
WILL COUNTY
STRUCTURE NUMBER 099-9901

FOR INFORMATION ONLY

| | | | | | | | | | | | |
|--|-------------------|------------|-----------|---|---|---------------------------|---------|-------------------------|--------------|-----------|---------|
| FILE NAME = | USER NAME = mdyjo | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER SN 099-9901 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| os\pw\work\pwwdot\mdyjo\0148931\011158 | sht-plan.dgn | DRAWN - | REVISED - | | | 112 | M-BDR-1 | WILL | 66 | 41 | |
| PLOT SCALE = 1/8" = 1'-0" | | CHECKED - | REVISED - | | | SCALE: | | SHEET NO. 2 OF 2 SHEETS | | STA. | TO STA. |
| PLOT DATE = 6/23/2011 | | DATE - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | |

ELECTRIC INCINERATING TOILET - INCINOLET MODEL TR OR APPROVED EQUAL
 COMPLETE WITH 3.75KW INCINERATOR COIL,
 AUTOMATIC CYCLE, 5" GALVANIZED STEEL VENT TO
 ROOF, ROOF CAP AND ROOF FLASHING. FURNISH 5
 CARTONS (200/CARTON) MANUFACTURERS BOWL
 LINERS, INSTALL IN STRICT ACCORDANCE WITH
 MANUFACTURERS INSTALLATION INSTRUCTIONS.
 OPERATING VOLTAGE SHALL BE 208V/1 PHASE.



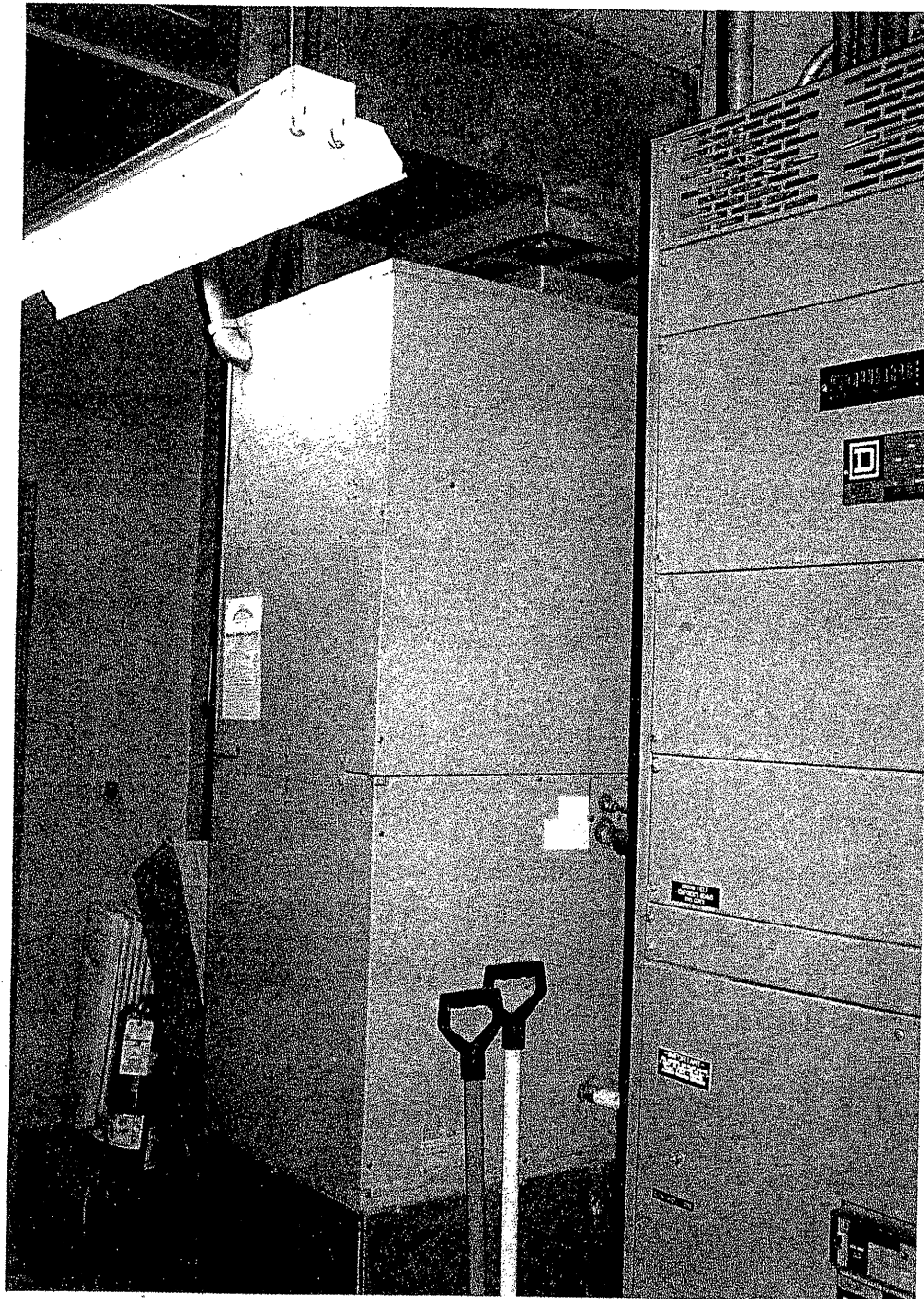
INCINERATOR TOILET VENT

NOTE:

REMOVE AND REPLACE ELECTRIC INCINERATING TOILET IN-KIND.

COST OF REMOVING AND REPLACING ELECTRIC INCINERATING TOILET INCLUDED IN THE COST OF BRIDGE TENDER HOUSE REHABILITATION.

| | | | | | | | | | | | |
|---|--------------------|----------------------------|-----------|---|--|---------------------------|---------|--------|--------------|-----------|--|
| FILE NAME = | USER NAME = midyjo | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER ELECTRIC INCINERATING TOILET | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| cr\pr_work\pndot\midyjo\0148931\0111594 | ehs-plandgn | DRAWN - | REVISED - | | | 112 | M-BDR-1 | WILL | 66 | 42 | |
| | | PLLOT SCALE = 1/8" = 1'-0" | REVISED - | | | CONTRACT NO. 62714 | | | | | |
| | | PLLOT DATE = 5/25/2011 | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | |
| | | | | | SCALE: | SHEET NO. 1 OF 5 SHEETS | | STA. | TO STA. | | |



EXISTING
ELECTRIC FURNACE -

EQUIPMENT SCHEDULE

LENNOX E1203-20 OR APPROVED EQUAL
PERFORMANCE CHARACTERISTICS
HEATING - 55,400 BTUH, 16.9 KW WITH 4 STEPS
OF CONTROL
BLOWER - 1400 CFM @ 0.3" EXTERNAL TO UNIT
INCLUDING EVAP. COIL AND FILTER WITH 1/3
H.P. MOTOR
ELEC. - 208V/1 PHASE/60CY.

EXISTING
AIR COOLED CONDENSING UNIT -
WITH MATCHING EVAPORATOR COIL

LENNOX HS18-413 WITH CP12-41Y COIL OR
APPROVED EQUAL
PERFORMANCE CHARACTERISTICS
COOLING - 32,100 BTUH SEAS./35,000 BTUH
TOTAL
COIL E.A.T. - 79.1 DEG. F DB/65.6-DEG. F WB
CONDENSING TEMP. - 95 DEG. F
ELEC. - 460V/3 PHASE/60CY, COMPRESSOR
RLA = 5.1 AMPS, CONDENSER FAN FLA = 0.7 AMPS
EER 8.35 MIN.
ACCESSORIES - 2 STAGE HEATING/1 STAGE
COOLING THERMOSTAT

NOTE:

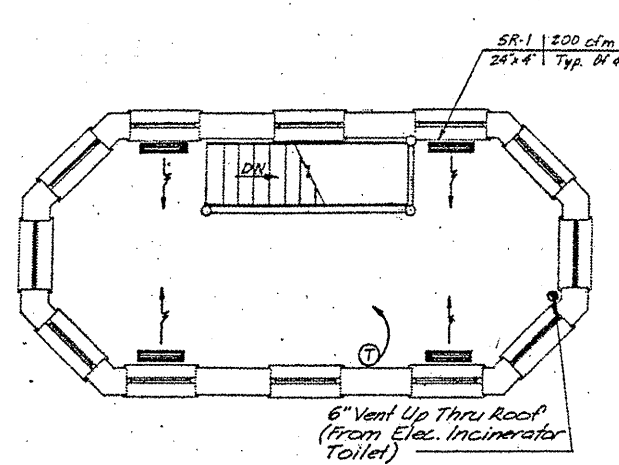
REPLACE EXISTING 55,400 BTU FURNACE WITH NEW 60,000 BTU (MINIMUM) FURNACE.
REPLACE EXISTING AIR CONDITIONING UNIT.

NEW EQUIPMENT SHALL CONNECT TO EXISTING RETURN AND SUPPLY DUCT WORK

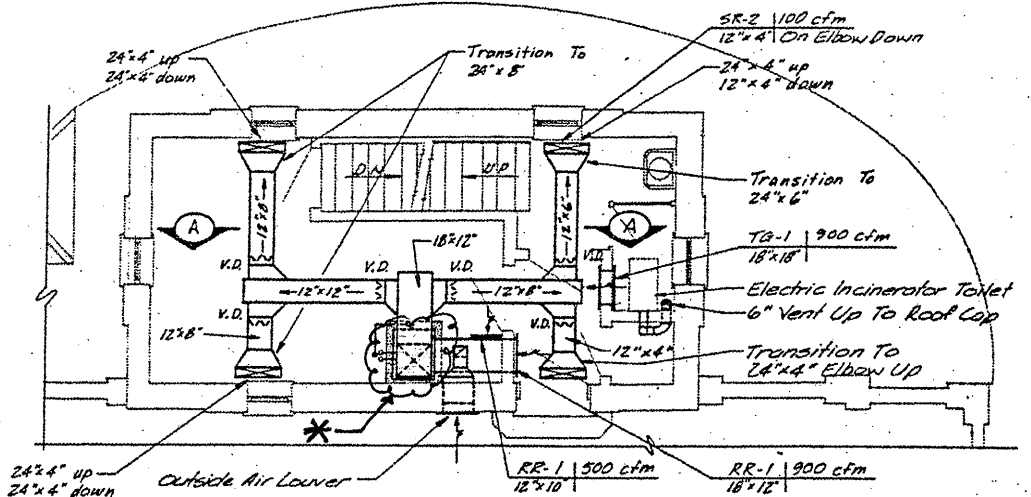
ANY MODIFICATIONS TO EXISTING DUCT WORK TO CONNECT TO NEW EQUIPMENT
SHALL BE DONE AS PART OF THE INSTALLATION.

COST OF REPLACING FURNACE AND AC UNITS INCLUDED IN THE COST OF
BRIDGE TENDER HOUSE REHABILITATION.

| | | | | | | | | | | | |
|--|----------------------------|------------|-----------|---|---|--------------------|-------------------------|--------|-----------------|---------------------------|--|
| FILE NAME = | USER NAME = midyjo | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER REPLACE ELECTRIC FURNACE AND AIR CONDITIONING UNITS | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| en:\pwwork\pwwork\midyjo\0148931\0111904 | shv-plen.dgn | DRAWN - | REVISED - | | | 112 | M-BDR-1 | WILL | 66 | 43 | |
| | PLOT SCALE = 1/8" = 1' IN. | CHECKED - | REVISED - | | | CONTRACT NO. 62714 | | | | | |
| | PLOT DATE = 5/25/2011 | DATE - | REVISED - | | | SCALE: | SHEET NO. 2 OF 5 SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT | |

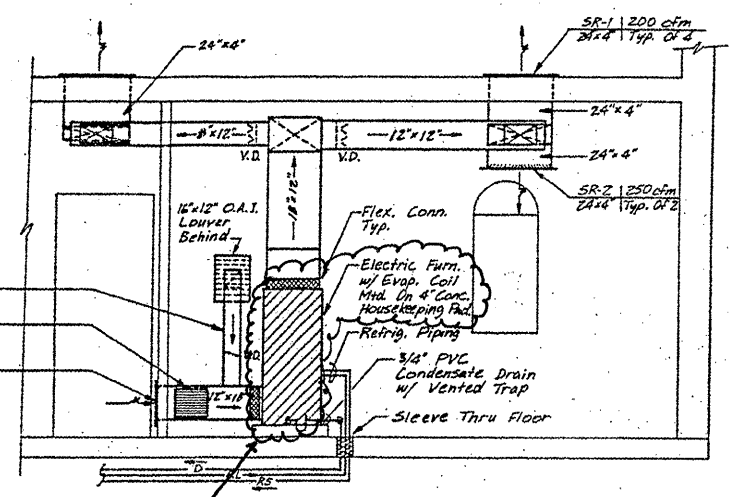


OPERATORS ROOM PLAN-2nd. FLOOR



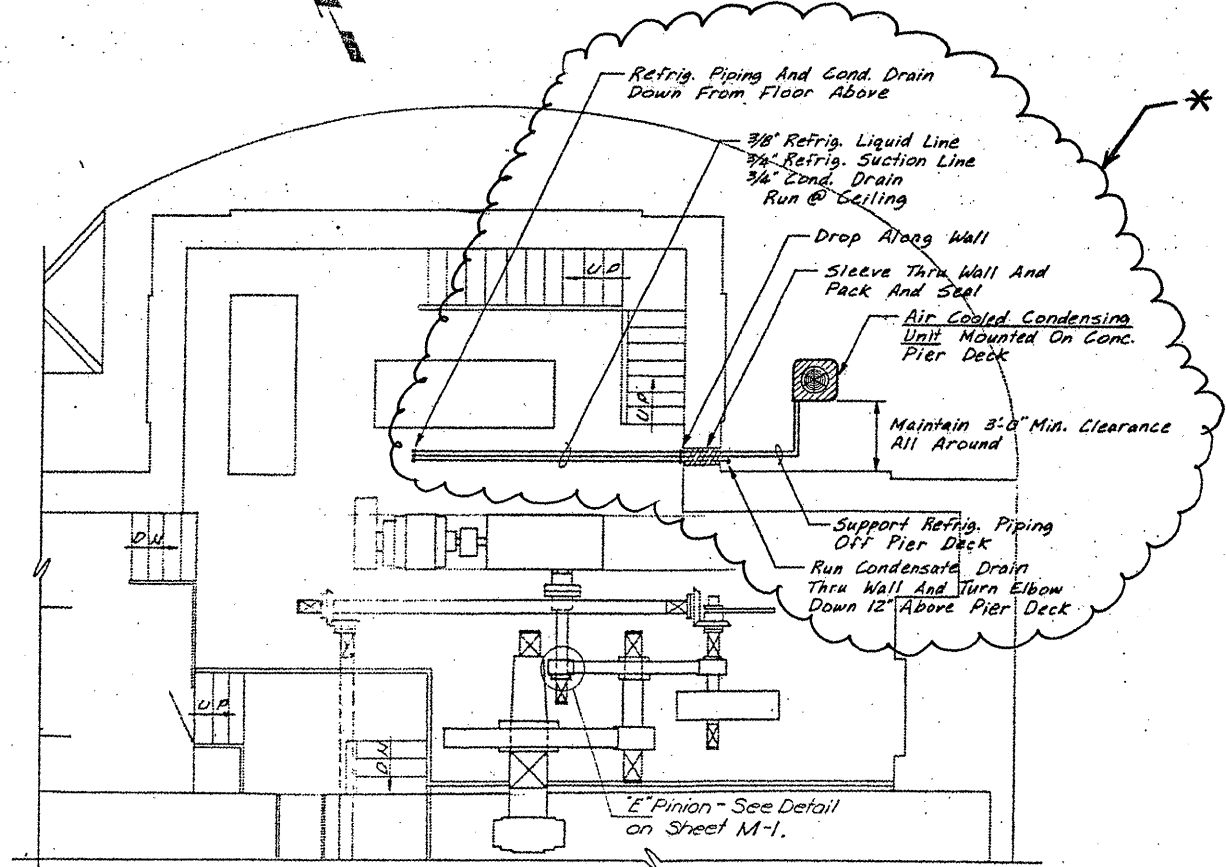
CONTROL ROOM PLAN-1st. FLOOR

OPERATORS HOUSE PLANS



SECTION A-A

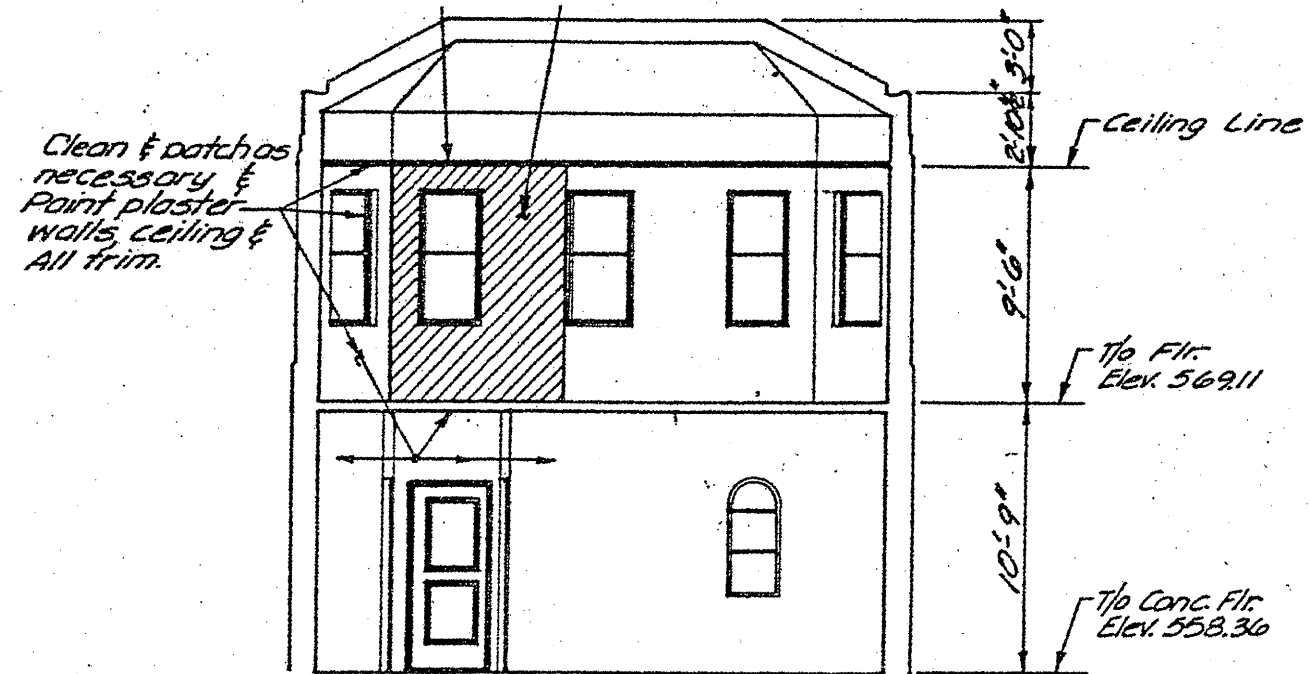
* FURNACE & AC UNITS TO BE REPLACED



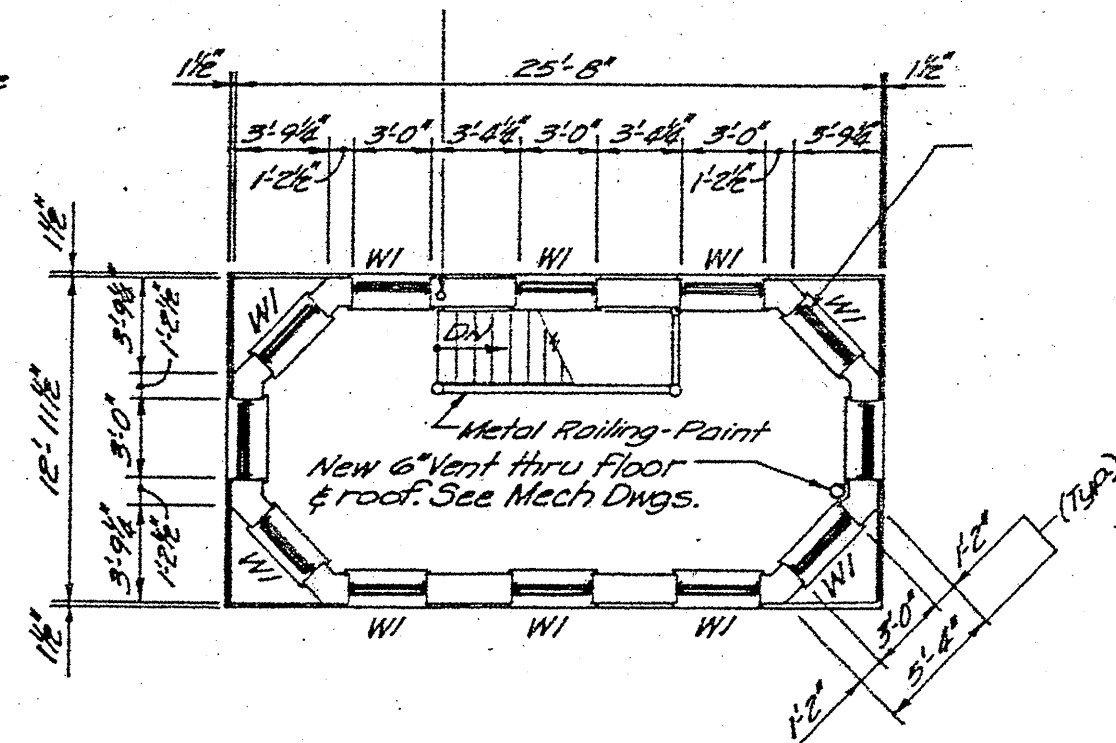
NEAR-SIDE MACHINERY / PIER PLAN

FOR INFORMATION ONLY

| | | | | | | | | | | | |
|--|---------------------------|------------|-----------|---|---|---------------------------|---------|--------|--------------|-----------|--|
| FILE NAME = | USER NAME = midyja | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER HEATING, VENTILATION AND AIR CONDITIONING | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| ct:\pwk\work\pwidot\midyja\d0148931\011150 | sht-plan.dgn | DRAWN - | REVISED - | | | 112 | M-BDR-1 | WILL | 66 | 44 | |
| | PLOT SCALE = 1/8" = 1'-0" | CHECKED - | REVISED - | | | CONTRACT NO. 62714 | | | | | |
| | PLOT DATE = 5/25/2011 | DATE - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | |



INTERIOR SOUTH WALL ELEVATION



OPERATORS ROOM PLAN-2nd FLOOR

NOTE:

REMOVE AND REPLACE OR REPAIR PLASTER WALLS AND CEILING AS NECESSARY.

PAINT INTERIOR WALLS WHEN REPAIRS ARE COMPLETE.

COST INCLUDED IN THE COST OF BRIDGE TENDER HOUSE REHABILITATION.

FOR ADDITIONAL REPAIRS TO THE MACHINERY ROOM SEE SHEET 38A

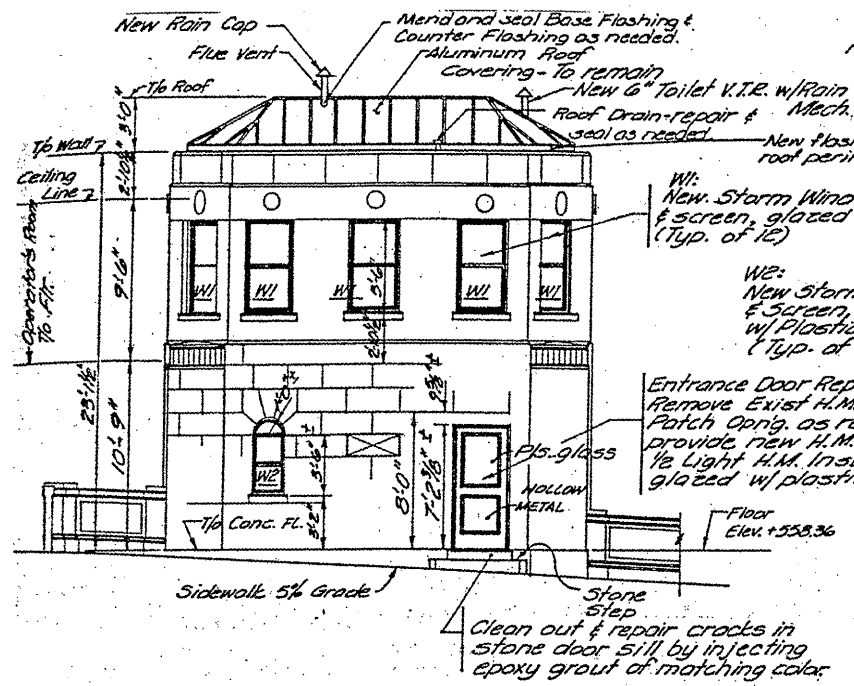
| | | | |
|--|-------------------------------|------------|-----------|
| FILE NAME = | USER NAME = mdyje | DESIGNED - | REVISED - |
| or:\pwwork\pwwork\madyje\08148931\011158 | sht-plan.dgn | DRAWN - | REVISED - |
| | PLOT SCALE = 1/8" = 1'-0" IN. | CHECKED - | REVISED - |
| | PLOT DATE = 5/25/2011 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

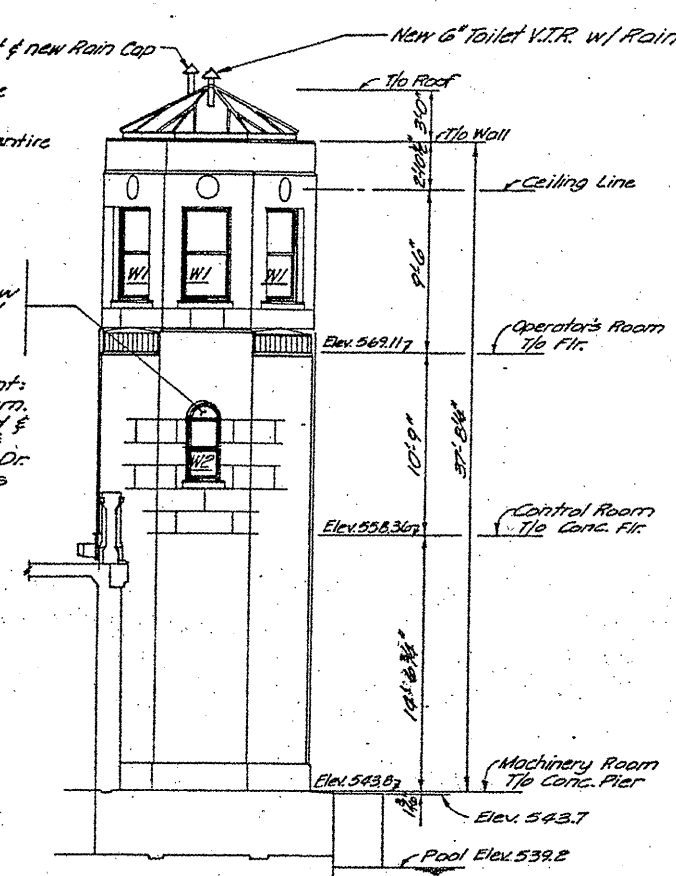
**RUBY STREET OVER DES PLAINES RIVER
BRIDGE HOUSE INTERIOR WALL PAINTING**

SCALE: SHEET NO. 4 OF 5 SHEETS STA. TO STA.

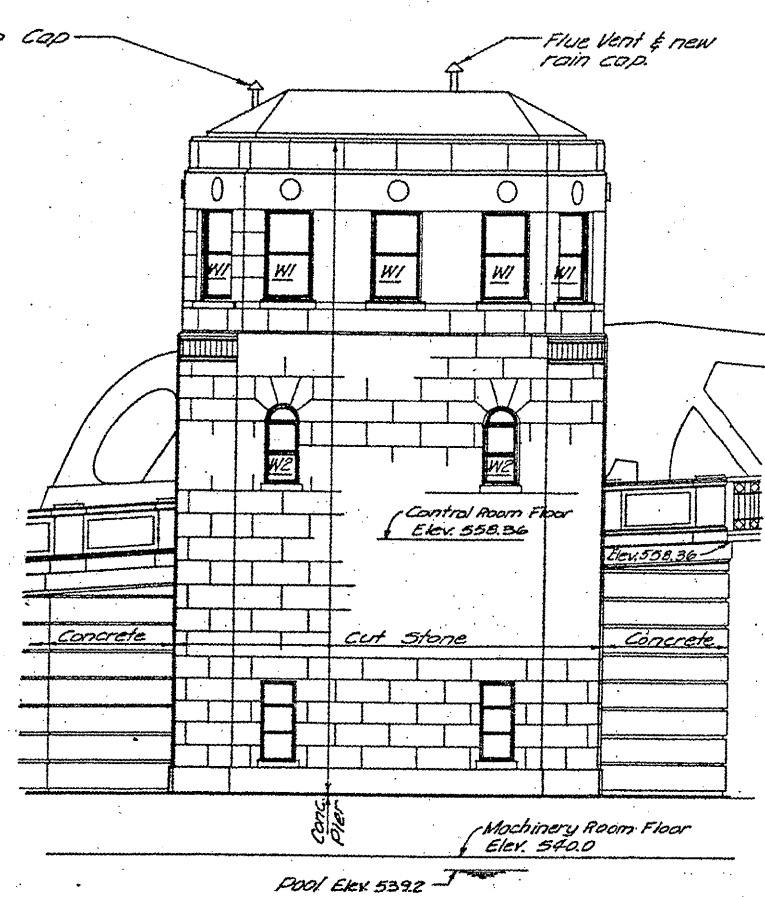
| | | | | |
|---------------------------|---------|--------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 112 | M-BDR-1 | WILL | 66 | 45 |
| | | | CONTRACT NO. 62714 | |
| ILLINOIS FED. AID PROJECT | | | | |



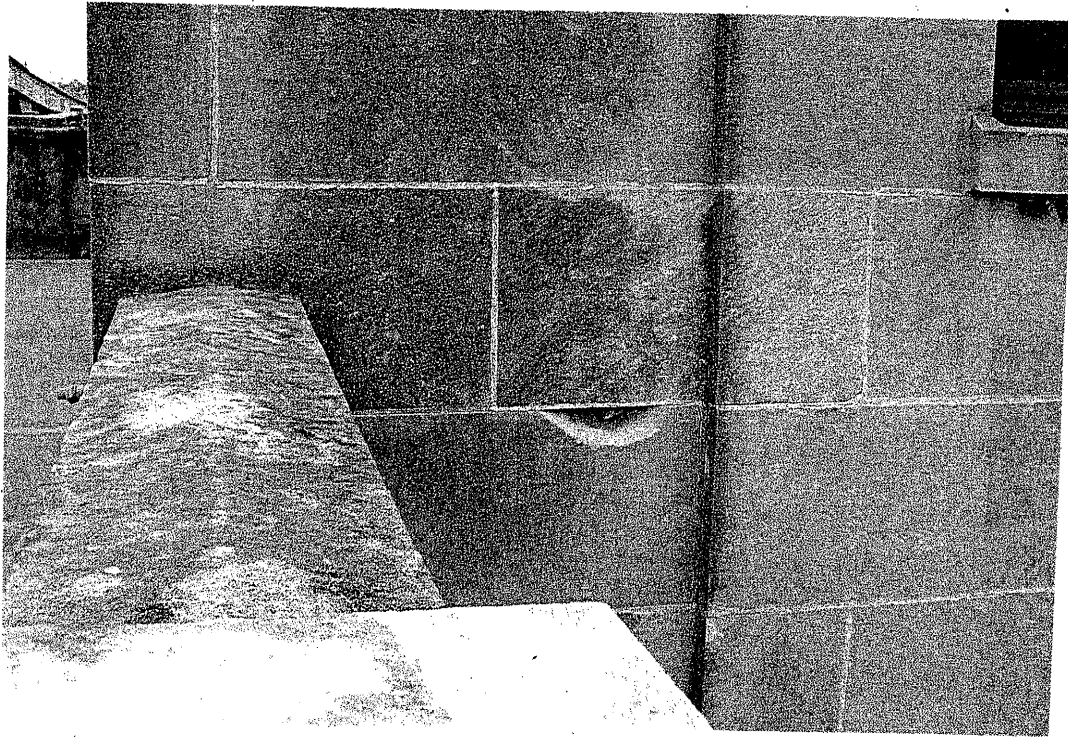
SOUTH ELEVATION



EAST ELEVATION
(West Elevation Similar)



NORTH ELEVATION - EAST PIER



BILL OF MATERIALS

| ITEM | UNIT | QUANTITY |
|------------------------------------|-------|----------|
| BRIDGE TENDER HOUSE REHABILITATION | L SUM | 1 |

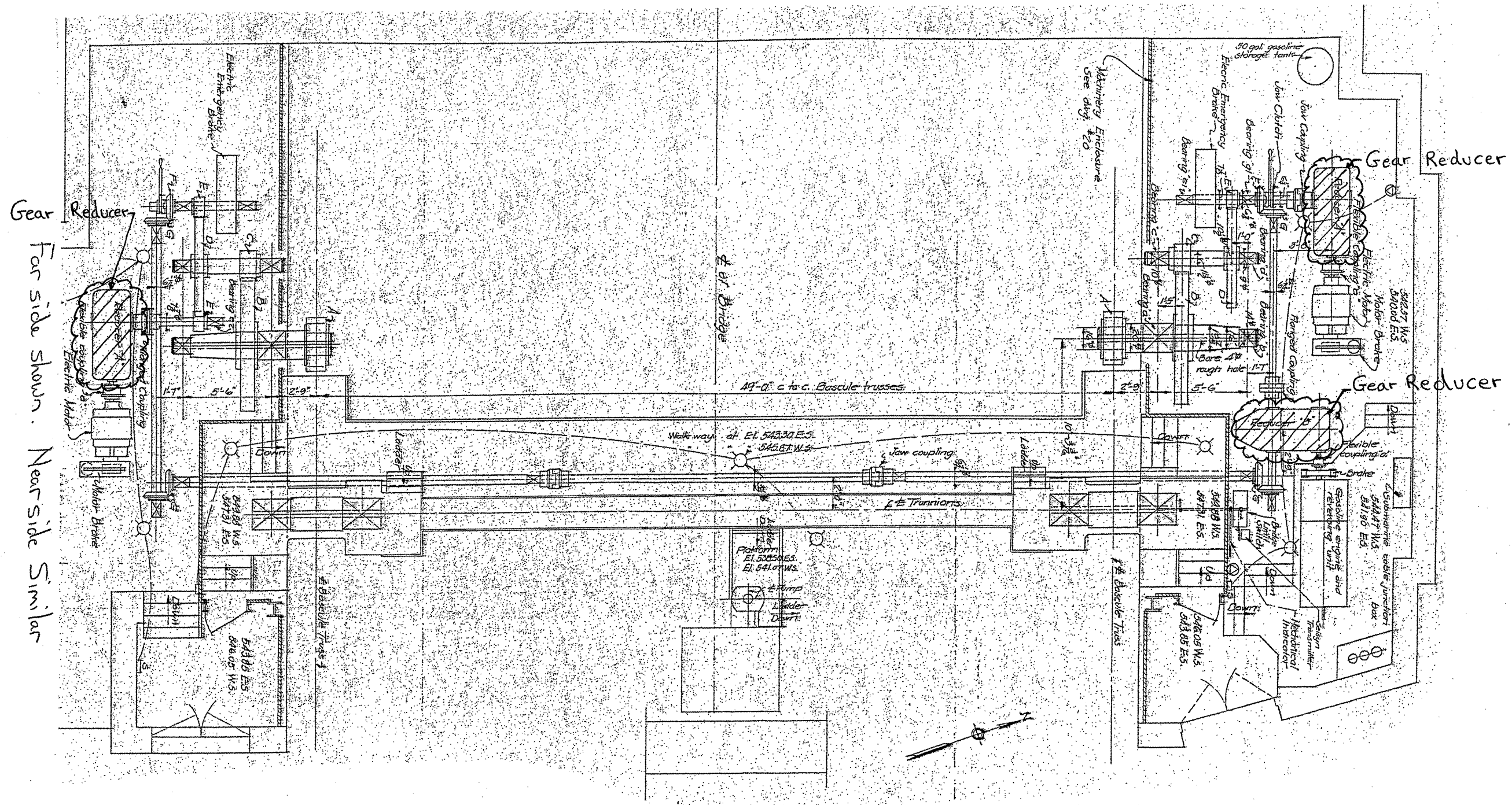
NOTE:
TUCK POINT ALL MORTAR JOINTS ON ALL FACES OF THE BUILDING. ALSO INCLUDE REPAIR OF SPALLED PORTIONS OF THE STONE AS SHOWN ON PICTURES.
COST OF TUCK POINTING INCLUDED IN THE COST OF BRIDGE TENDER HOUSE REHABILITATION.

| | | | |
|--|---------------------------|-----------------------|-----------|
| FILE NAME = | USER NAME = mdjja | DESIGNED - RTD | REVISED - |
| es:\pwwork\pwwork\mdjja\08148931\0111584 | sht-plan.dgn | DRAWN - | REVISED - |
| | PLOT SCALE = 1/8" = 1'-0" | CHECKED - | REVISED - |
| | PLOT DATE = 5/25/2011 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER
TUCK POINTING OF EXTERIOR BRIDGE HOUSE

| | | | | |
|---|-----------------|-------------|--|--------------|
| F.A.P. RTE. 112 | SECTION M-BOR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 46 |
| SCALE: SHEET NO. 5 OF 5 SHEETS STA. TO STA. | | | ILLINOIS FED. AID PROJECT CONTRACT NO. 62714 | |



BILL OF MATERIALS

| ITEM | UNIT | QUANTITY |
|----------------------|-------|----------|
| GEAR REDUCER SERVICE | L SUM | 1 |

SEE SPECIAL PROVISION "GEAR REDUCER SERVICE"

| | | | |
|---------------------------------------|----------------------------|----------------|-----------|
| FILE NAME = | USER NAME = midyjo | DESIGNED - RTB | REVISED - |
| c:\pwork\pmdot\midyjo\08148931\011150 | sht-plen.dgn | DRAWN - | REVISED - |
| | PLOT SCALE = 1/8" = 1' IN. | CHECKED - | REVISED - |
| | PLOT DATE = 5/25/2011 | DATE - | REVISED - |

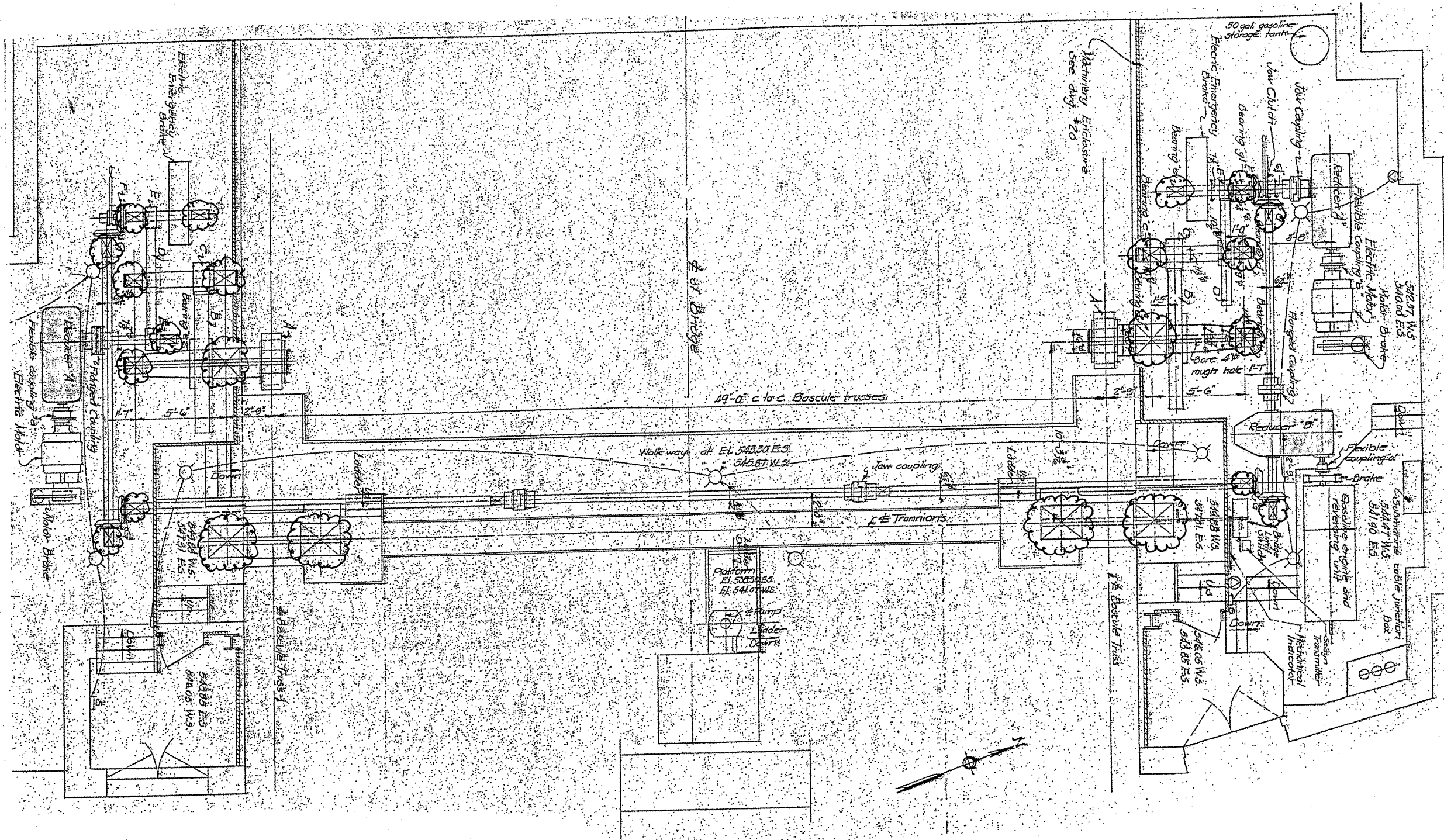
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RUBY STREET OVER DES PLAINES RIVER
GEAR REDUCER SERVICE**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|---------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 112 | M-BDR-1 | WILL | 66 | 47 |
| CONTRACT NO. 62714 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

Far side shown. Near side similar.



BILL OF MATERIALS

| ITEM | UNIT | QUANTITY |
|--|-------|----------|
| MACHINERY BED BEARING GREASE GROOVE CLEANING | L SUM | 1 |
| TRUNION BEARING GREASE GROOVE CLEANING | L SUM | 1 |

SEE SPECIAL PROVISION "MACHINERY BED BEARING GREASE GROOVE CLEANING" AND "TRUNION BEARING GREASE GROOVE CLEANING"

FILE NAME =
 c:\pw_work\pawdot\midyje\08148931\01111804

USER NAME = midyje
 sht-plan.dgn
 PLOT SCALE = 1/8" = 1' IN.
 PLOT DATE = 5/25/2011

DESIGNED - **RTO**
 DRAWN -
 CHECKED -
 DATE -

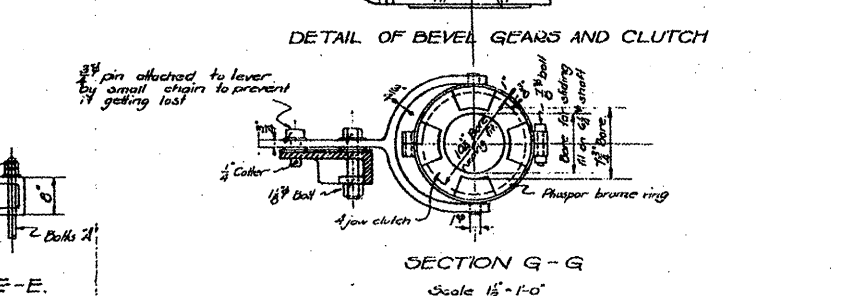
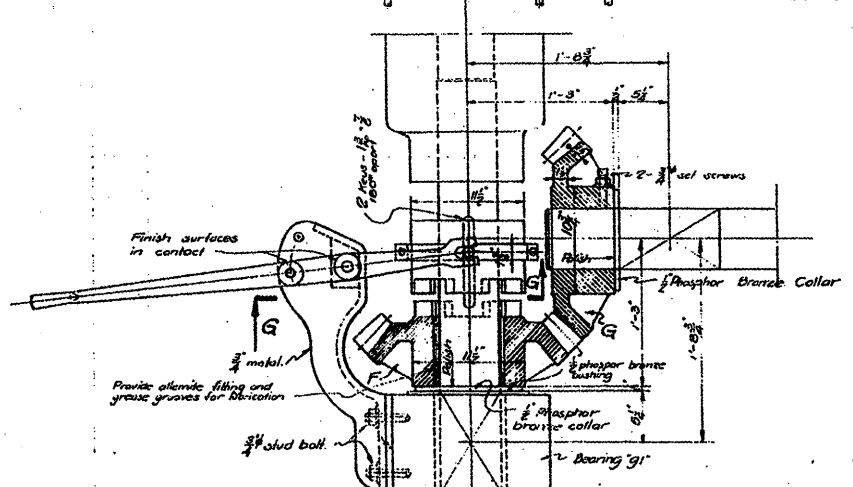
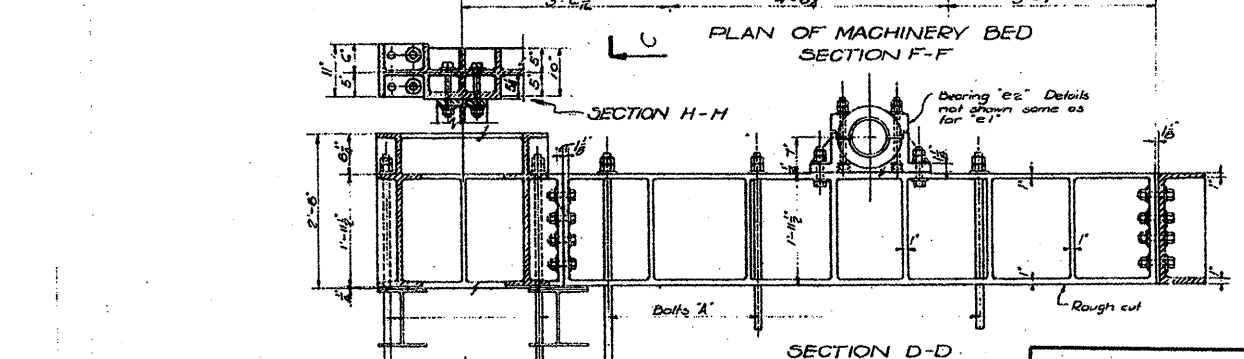
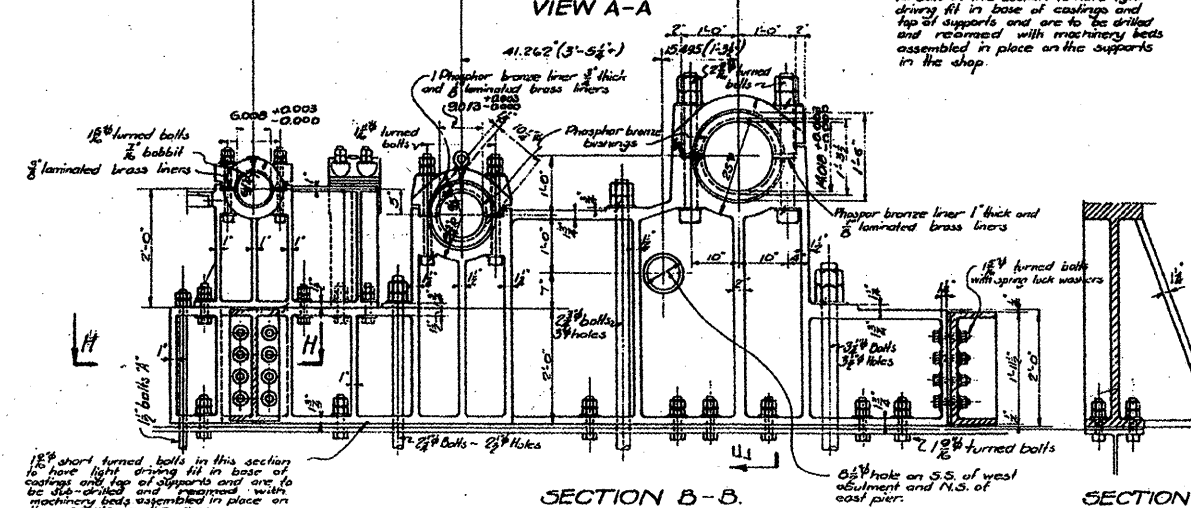
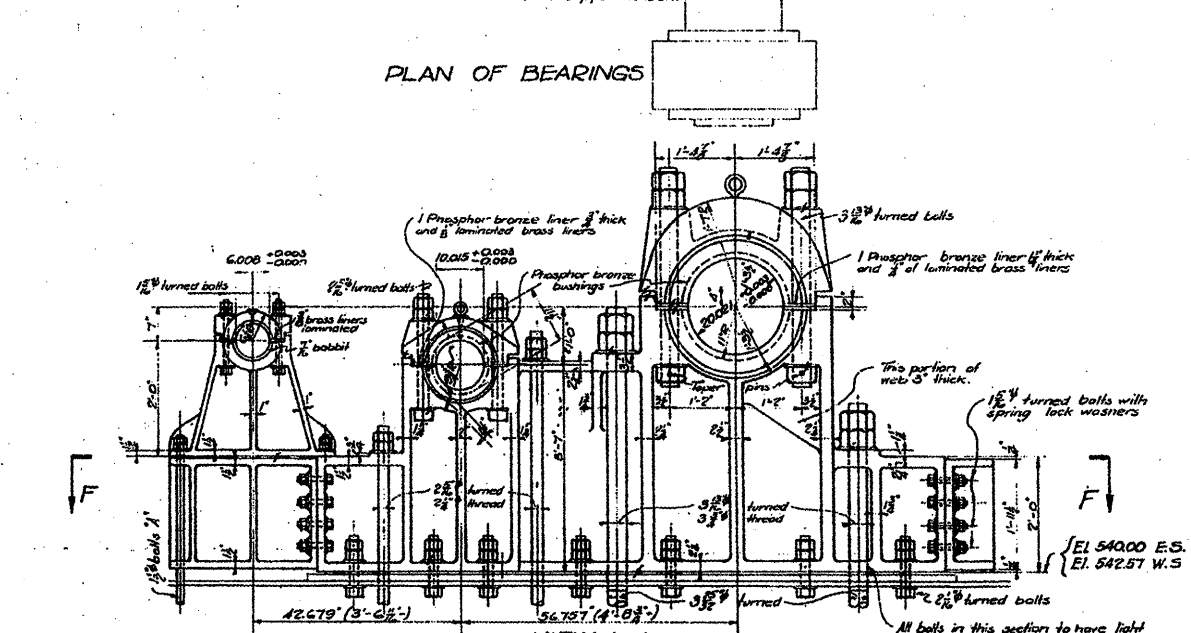
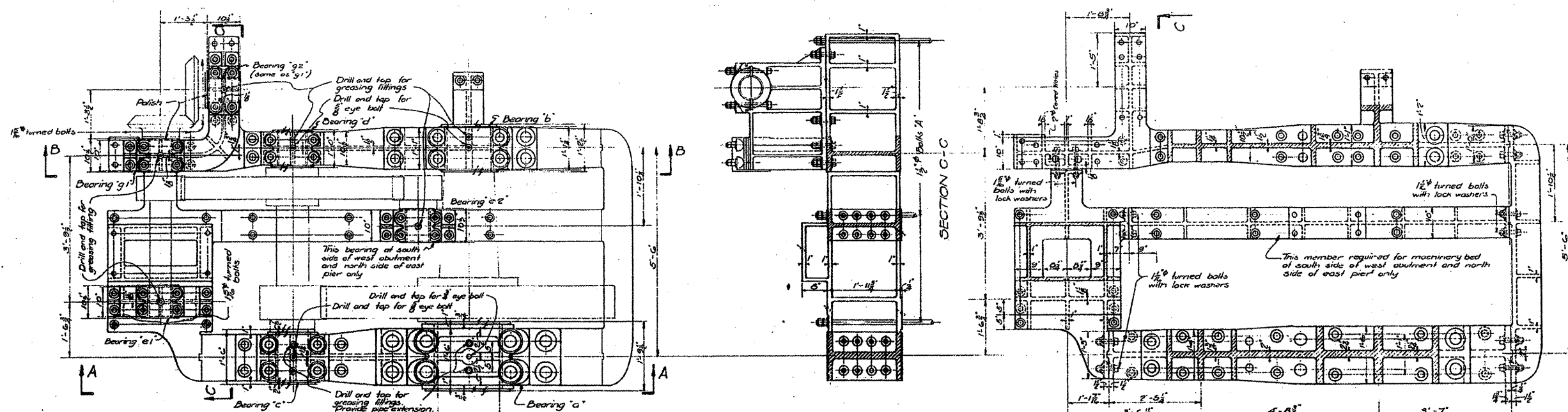
REVISED -
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 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RUBY STREET OVER DES PLAINES RIVER
 GREASE GROOVE CLEANING**

SCALE: SHEET NO. **1** OF **10** SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------------|-------------|--------------------|--------------|
| F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 48 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62714 | |



FOR INFORMATION ONLY

GENERAL NOTES:
 Balls marked 'A' are to be 1 1/2" C-C long with 2 hex nuts each of top and 2 sq. nuts each and 3/4" of washers at bottom. Drill 1/8" holes for bolts 'A'.
 Balls attaching bearing caps to bases shall have a push fit in the caps and a light driving fit in the bases.
 Balls not covered by above notes shall have light driving fit unless noted otherwise.

MACHINERY DETAILS
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET, ILL.

DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY ALKS
 TRACED BY A.D.
 CHECKED BY I.E.
 REVISOR SEPT. 11, 1933.
 SCALE 3/4" = 1'-0"
 DATE FEB. 20, 1930.
 SHEET NO. 1343-

| | |
|--|--------------------|
| FILE NAME = | USER NAME = midyje |
| en:\pw\work\PWIDOT\MIDYJA\0148931\011150 | sht-plan.dgn |
| PLOT SCALE = 1/8" = 1'-0" | DATE = 7/1/2009 |

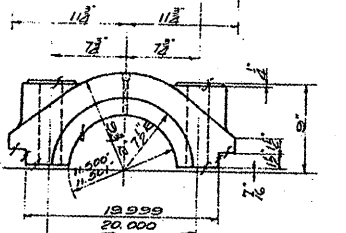
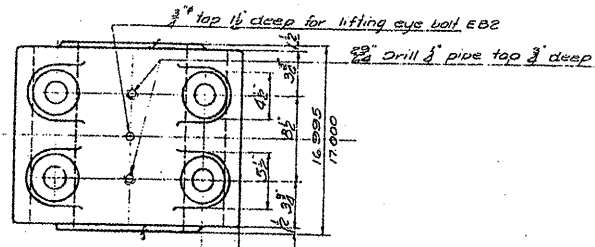
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|------------|-----------|
| DESIGNED - | REVISOR - |
| DRAWN - | REVISOR - |
| CHECKED - | REVISOR - |
| DATE - | REVISOR - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

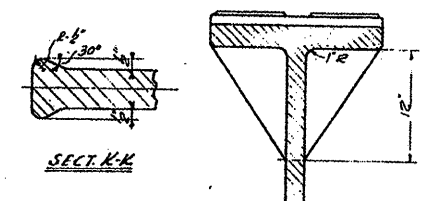
RUBY STREET OVER DES PLAINES RIVER
SN 099-9901

SCALE: SHEET NO. 2 OF 10 SHEETS STA. TO STA.

| | | | | |
|-----------------------------|-----------------|-------------|--------------------|--------------|
| F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 43 |
| | | | CONTRACT NO. 62714 | |
| (ILLINOIS) FED. AID PROJECT | | | | |



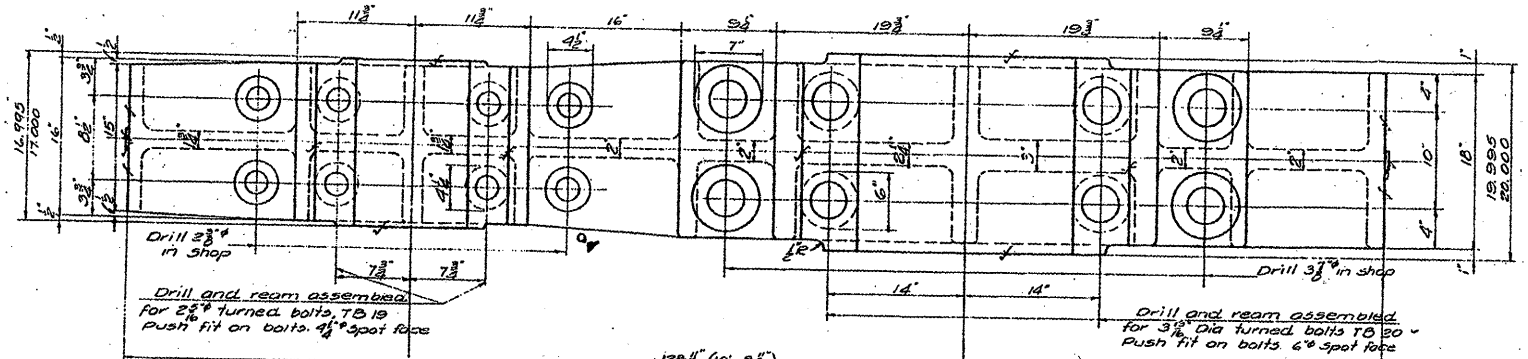
BEARING CAP
 PATT. NO. 2020B-5077
 CAST STEEL



Drill and ream assembled for 1 1/2" turned bolts TB 23 Light driving fit on bolts 2/8" spot face

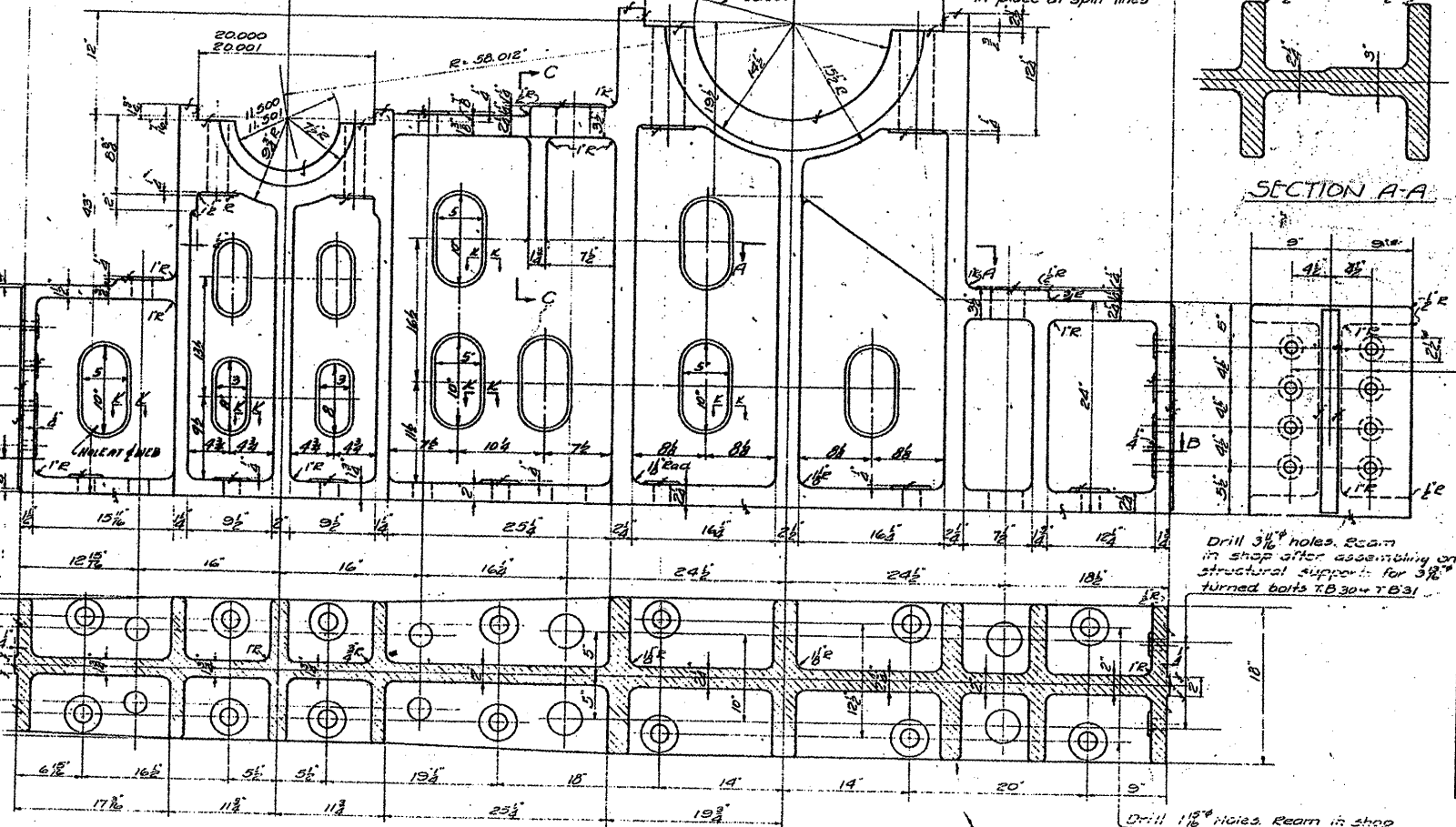
Drill 2 1/8" holes. Ream in shop after assembling on structural supports for 2 1/8" turned bolts TB 28 TB 29 Light driving fit on bolts

Drill 1 1/2" holes. Ream in shop after assembling on structural supports for 1 1/2" turned bolts TB 25 TB 26 Light driving fit on bolts 4/8" spot face.



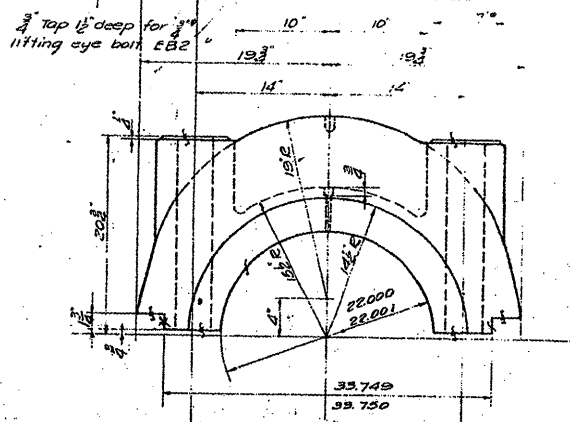
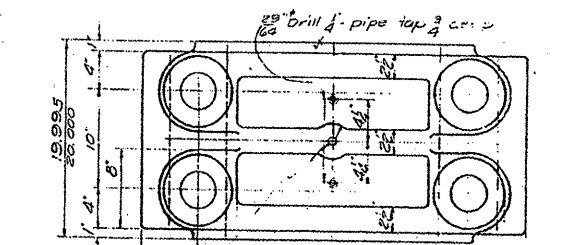
NOTE: Bore and face with cap and shims in place at split lines

NOTE: Bore and face with cap and shims in place at split lines



SECTION B-B
 COMBINATION BEARING
 PATT. NO. 2020-5077
 CAST STEEL

Drill 1 1/2" holes. Ream in shop after assembling on structural supports for 1 1/2" turned bolts TB 27 Light driving fit on bolts 4/8" spot face



BEARING CAP
 PATT. NO. 2020A-5077

- REQUIRED**
- 4 COMB. BEARING PATT. NO. 2020-5077
 - 4 BEARING CAPS 2020A-5077
 - 4 2020B-5077

Drill and ream assembled for 1 1/2" turned bolts TB 24 Light driving fit on bolts 2/8" spot face

NOTES:
 Specifications for steel for castings
 A.S.T.M. A27-24 Std. 1930 Class B
 Med. Grade Annealed.
 Cover finished surfaces with white lead and tallow.

FOR INFORMATION ONLY

| | |
|--|--------------------|
| FILE NAME = | USER NAME = midyjo |
| es:\pwwork\pwwork\midyjo\148931\011150 | sht-plan.dgn |
| PLOT SCALE = 1/8" = 1'-0" | |
| PLOT DATE = 7/1/2009 | |

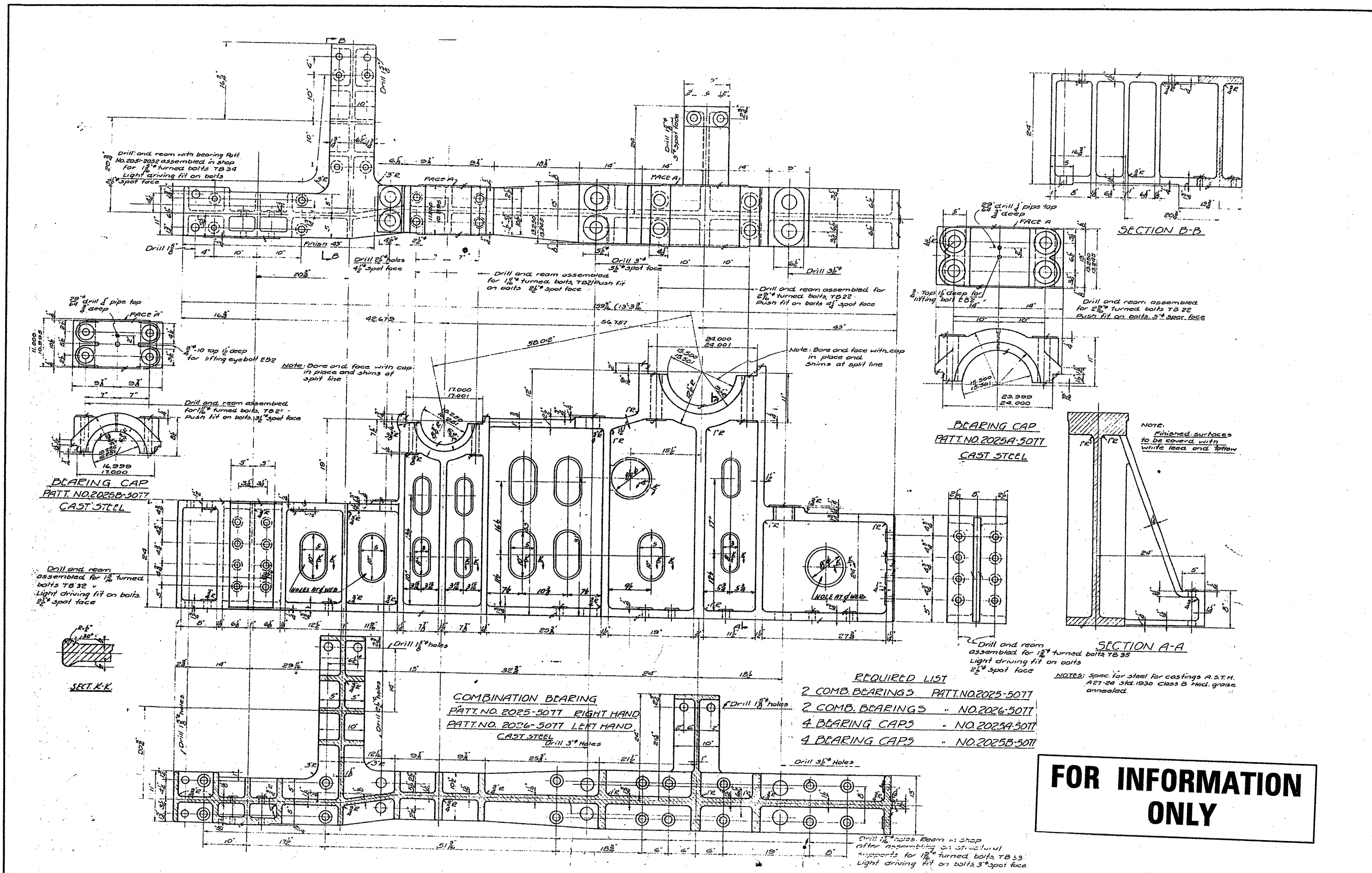
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|------------|-----------|
| DESIGNED - | REVISED - |
| DRAWN - | REVISED - |
| CHECKED - | REVISED - |
| DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RUBY STREET OVER DES PLAINES RIVER
 SN 099-9901

SCALE: SHEET NO. 3 OF 10 SHEETS STA. TO STA.

| | | | | |
|---------------------------|---------|--------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 112 | M-BDR-1 | WILL | 66 | 50 |
| | | | CONTRACT NO. 62714 | |
| ILLINOIS FED. AID PROJECT | | | | |



| | |
|--|-------------------|
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| en\pwork\PMID01\MIDYJA\0148931\N011150 | shg-plan.dgn |
| PLOT SCALE = 1/8" = 1' IN. | |
| PLOT DATE = 7/1/2009 | |

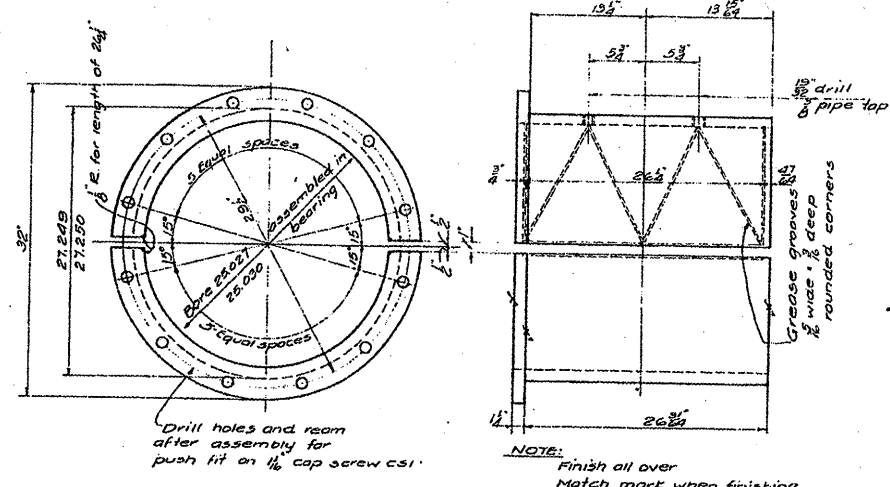
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| DESIGNED - | REVISED - |
| DRAWN - | REVISED - |
| CHECKED - | REVISED - |
| DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

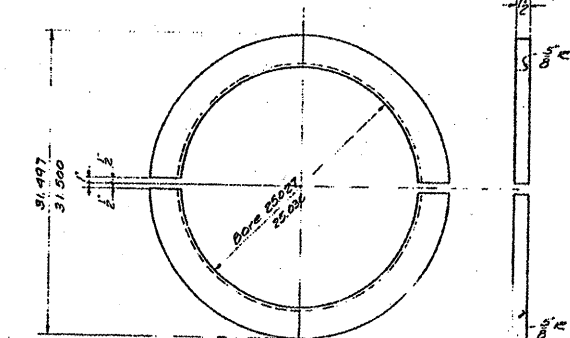
RUBY STREET OVER DES PLAINES RIVER
SN 099-9901

SCALE: SHEET NO. 4 OF 10 SHEETS STA. TO STA.

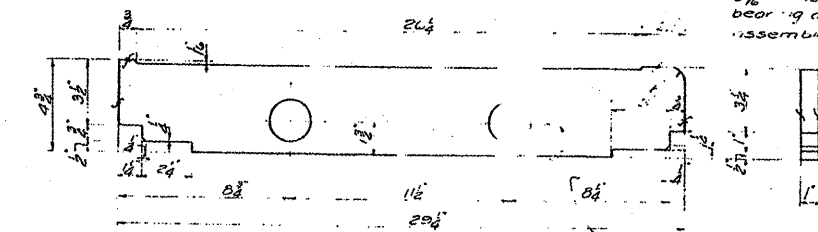
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|---------------------------|---------|--------|--------------------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS NO. |
| 112 | M-BDR-1 | WILL | 66 51 |
| | | | CONTRACT NO. 62714 |
| ILLINOIS FED. AID PROJECT | | | |



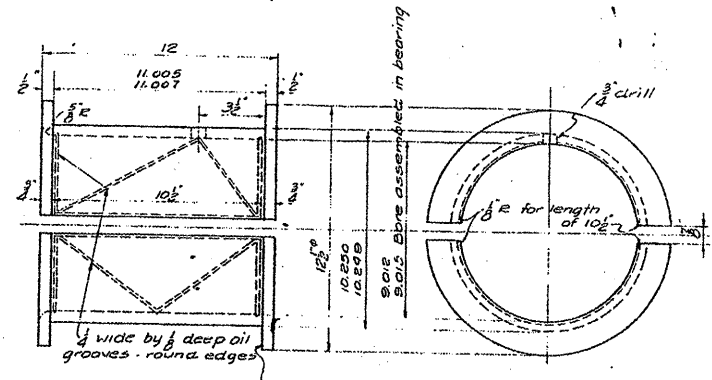
BUSHING
PATT. NO. 2033-5083
 MATERIAL: AM. MANGANESE BRONZE CO'S
 HY-TEN-3L #1 OR EQUAL
 Ship assembled with patt. No. 2030, 2030A, 2035



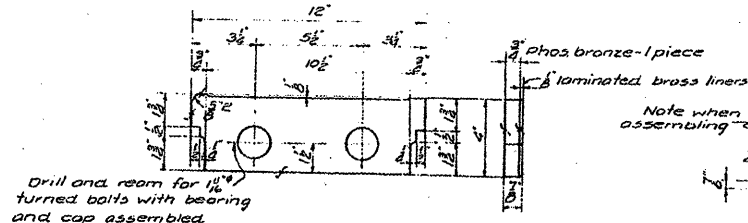
THR. 12" R.V.
PATT. NO. 2034-5083
 PHOS. BRONZE



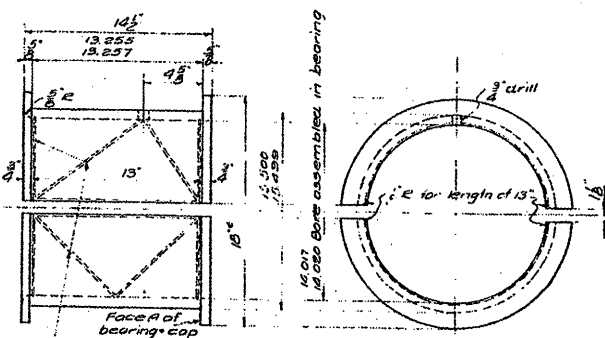
SHIM
PATT. NO. 2035-5083
 BRASS
 Ship assembled with Patt. No. 2033



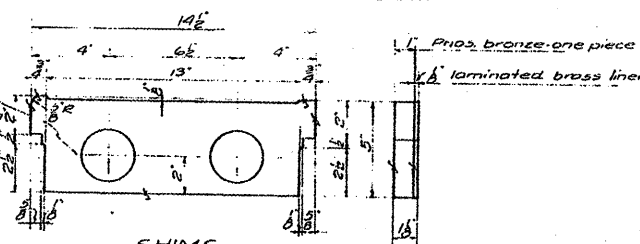
BUSHING Ship assembled with patt. no. 2025, 2025B, 2026
PATT. NO. 2055-5083
 PHOS. BRONZE



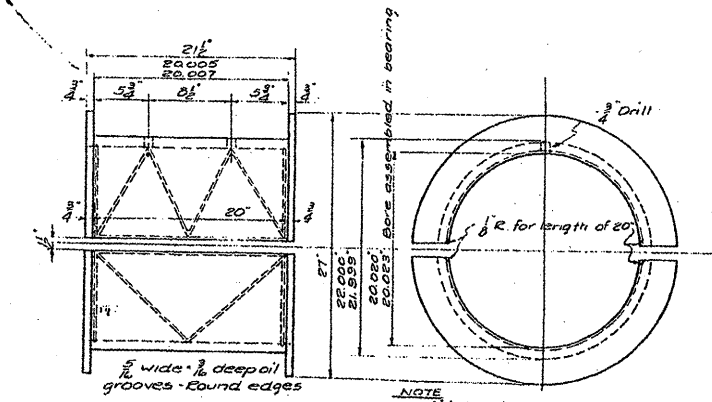
SHIMS
PATT. NO. 2028-5083
 Ship assembled with Patt. No. 2055



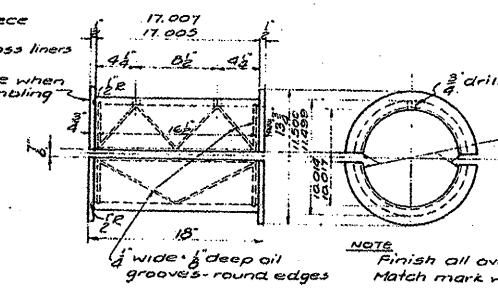
BUSHING
PATT. NO. 2027-5083
 PHOS. BRONZE
 Ship assembled with Patt. No. 2025, 2026, 2026A



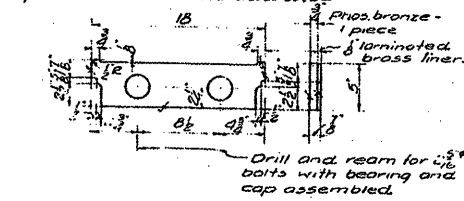
SHIMS
PATT. NO. 2029-5083
 Ship assembled with patt. No. 2027



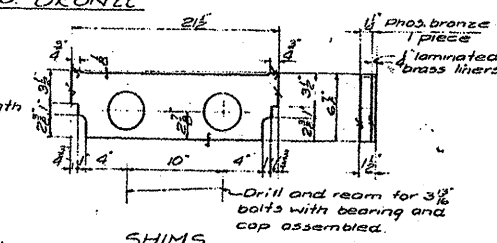
BUSHING Ship assembled with Patt. No. 2020, 2020A
PATT. NO. 2022-5083
 PHOS. BRONZE



BUSHING
PATT. NO. 2021-5083
 PHOS. BRONZE
 Ship assembled with Patt. No. 2020, 2020B



SHIMS
PATT. NO. 2023-5083
 Ship assembled with Patt. No. 2021



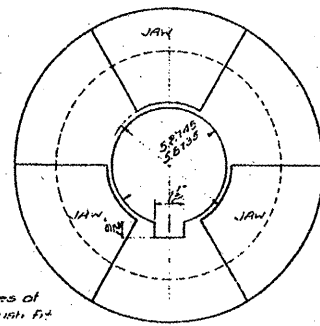
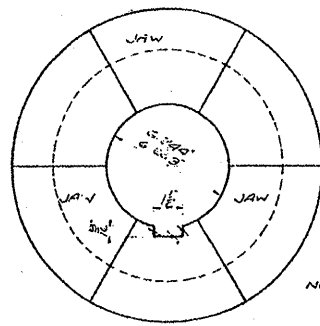
SHIMS
PATT. NO. 2024-5083
 Ship assembled with Patt. No. 2020

REQUIRED LIST

| | |
|----------------------------|---------------------|
| 8 BUSHINGS (16 HALVES) | PATT. NO. 2033-5083 |
| 4 " (8 HALVES) | " " 2055-5083 |
| 4 " (8 HALVES) | " " 2022-5083 |
| 4 " (8 HALVES) | " " 2021-5083 |
| 4 " (8 HALVES) | " " 2021-5083 |
| 8 THRUST RINGS (16 HALVES) | " " 2034-5083 |
| 8 SHIMS | " " 2029-5083 |
| 8 " " | " " 2028-5083 |
| 8 " " | " " 2023-5083 |
| 8 " " | " " 2024-5083 |
| 16 " " | " " 2035-5083 |

NOTE:
 Bronze to be class B, Serial Designation B22-21 A.S.T.M. Std. 1930 Except as noted for Patt. No. 2033-5083

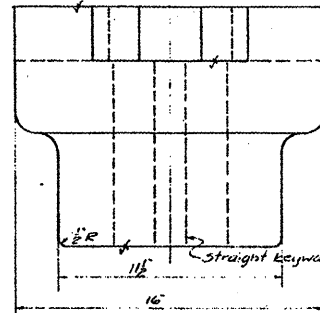
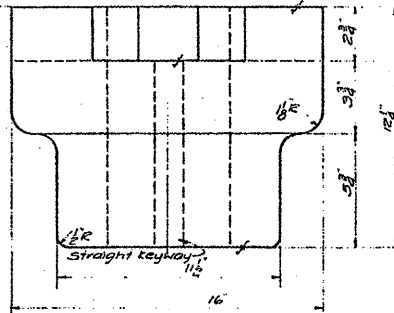
FOR INFORMATION ONLY



NOTE: Finish faces of Jaws for push fit.

6.250" Counter bore
6.222"

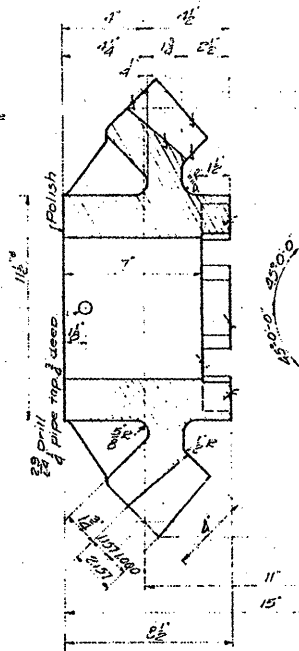
End of shaft 95



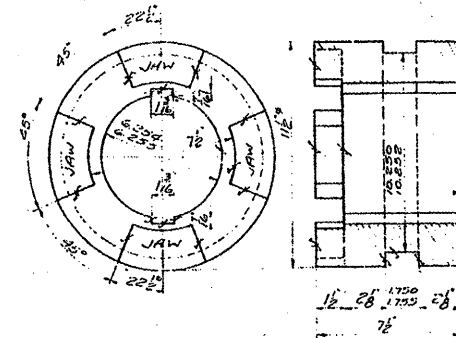
End of Encoder shaft

JAW COUPLING
PATT. NO. 2058-5077
CAST STEEL

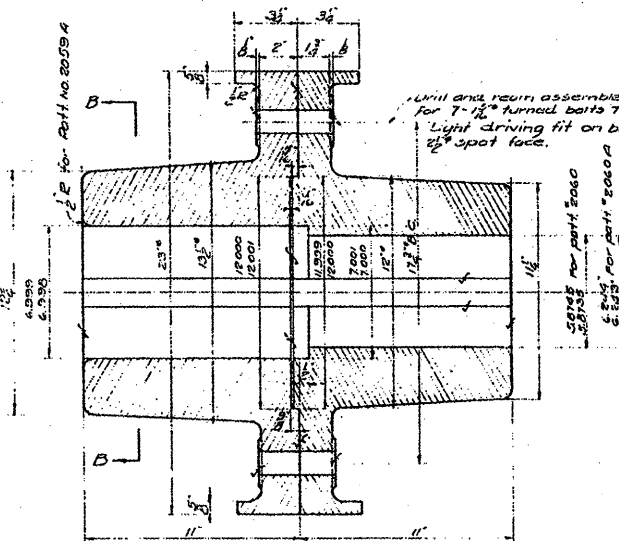
JAW COUPLING
PATT. NO. 2058A-5077
CAST STEEL



22 TEETH I.D.P. 4FACE
22" PITCH DIA.
14.5 STD INVOLUTE CUT TEETH
BEVEL GEAR F
PATT. NO. 2061-5077
CAST STEEL

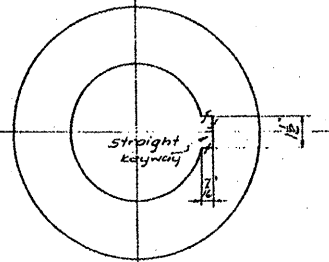
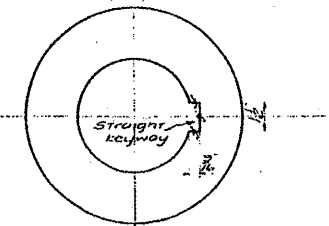


CLUTCH
PATT. NO. 2062-5077
CAST STEEL
NOTE: Jaws of Patt. No. 2061-2062 to have push fit.

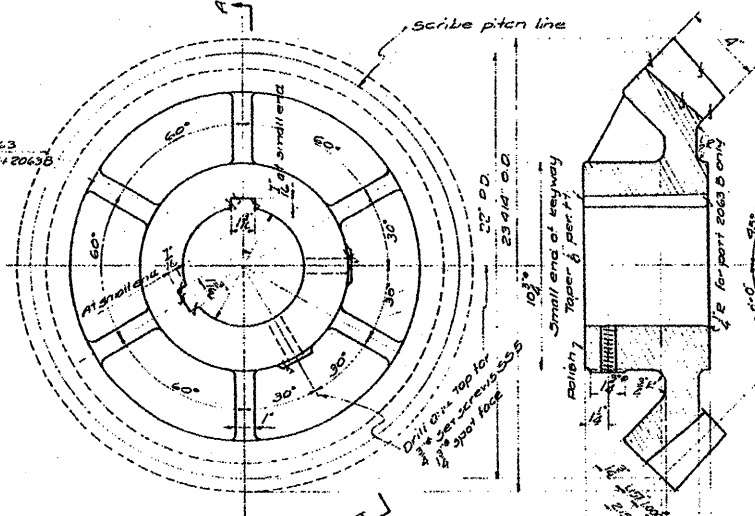


FLANGED COUPLING
PATT. NO. 2059-5077
CAST STEEL

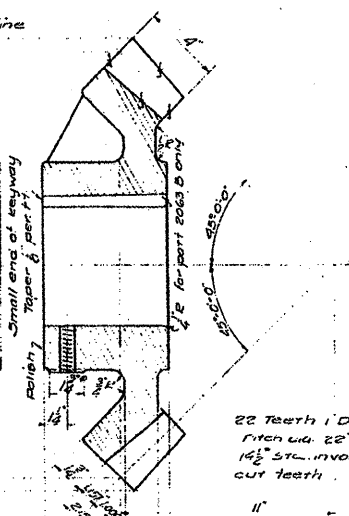
FLANGED COUPLING
PATT. NO. 2060-5077
CAST STEEL



SECTION B-B



BEVEL GEARS G
PATT. NO. 2063-5077
PATT. NO. 2063A-5077
PATT. NO. 2063B-5077
CAST STEEL

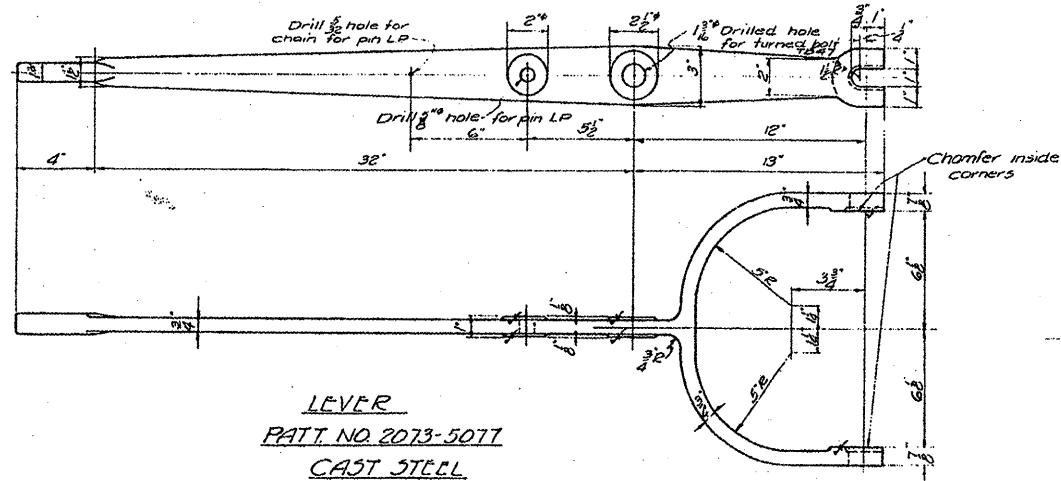


22 Teeth I.D.P.
Pitch dia. 22"
14.5 STD INVOLUTE
cut teeth

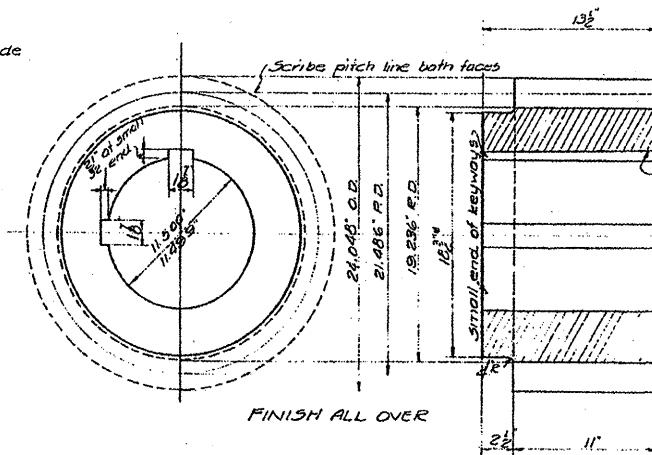
- REQUIRED LIST
- 2 JAW COUPLINGS PATT. NO. 2058-5077
 - 2 " " " " 2058A-5077
 - 2 FLANGED COUPLINGS " " 2059-5077
 - 2 " " " " 2060-5077
 - 2 " " " " 2060A-5077
 - 4 BEVEL GEARS " " 2061-5077
 - 4 CLUTCHES " " 2062-5077
 - 8 BEVEL GEARS " " 2063-5077
 - 2 " " " " 2063A-5077
 - 2 " " " " 2063B-5077
 - 2 FLANGED COUPLINGS " " 2059A-5077

FOR INFORMATION ONLY

NOTES:
Spec. for steel castings A.S.T.M
A27-24 Std. 1930, Class B, Mod.
grade unanneal.



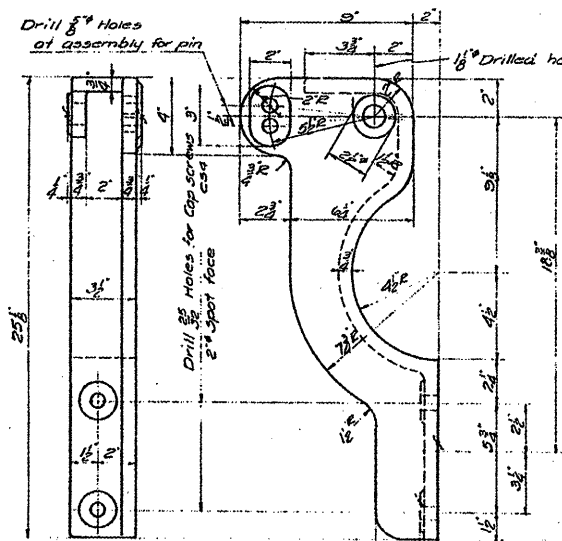
LEVER
PATT. NO. 2073-5077
CAST STEEL



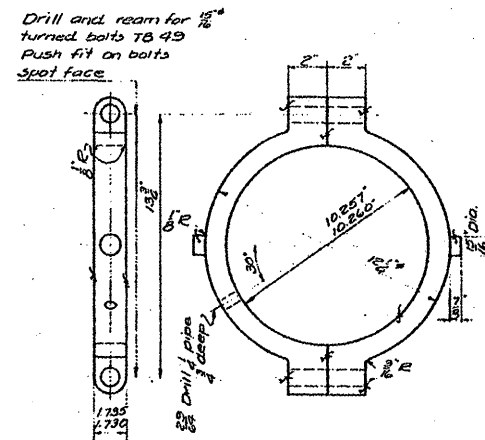
FINISH ALL OVER
15 Special 20° involute cut teeth
See sheet *9 for profile
4 1/2 C.R. 21.486" P.D.
PINION - MARK C
FORGED STEEL



15 Std. 20° involute stud teeth
3" C.R. 14.384" P.D. cut teeth
PINION - MARK E
FORGED STEEL

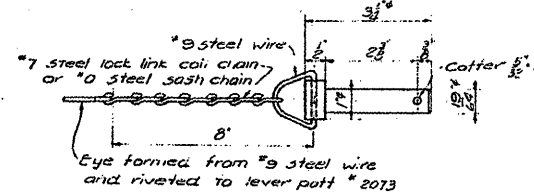


BRACKET
PATT. NO. 2071-5077 RIGHT HD.
PATT. NO. 2072-5077 LEFT HD.
CAST STEEL



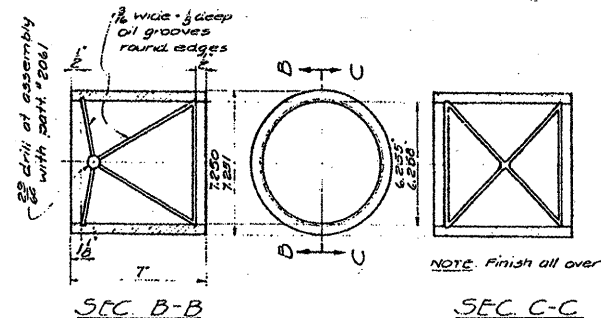
SHIFT RING
PATT. NO. 2064-5083
PHOS. BRONZE

Ship assembled with Part No. 2062-5077

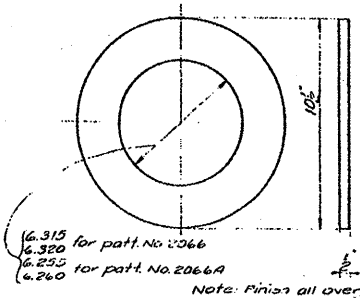


PIN - LP
MACHINERY STEEL

- REQUIRED LIST
- 4- LEVERS PATT. NO. 2073-5077
 - 2- BRACKETS RIGHT HD. * 2071-5077
 - 2- BRACKETS LEFT HD. * 2072-5077
 - 4- BUSHINGS PATT. NO. 2065-5083
 - 4- SHIFT RINGS * 2064-5083
 - 4- PINIONS C
 - 6- PINIONS E
 - 4- PINS LP
 - 4- THRUST RINGS * 2066-5083
 - 12- THRUST RINGS * 2066A-5083



BUSHING
PATT. NO. 2065-5083
PHOS. BRONZE
Ship assembled with part no 2061

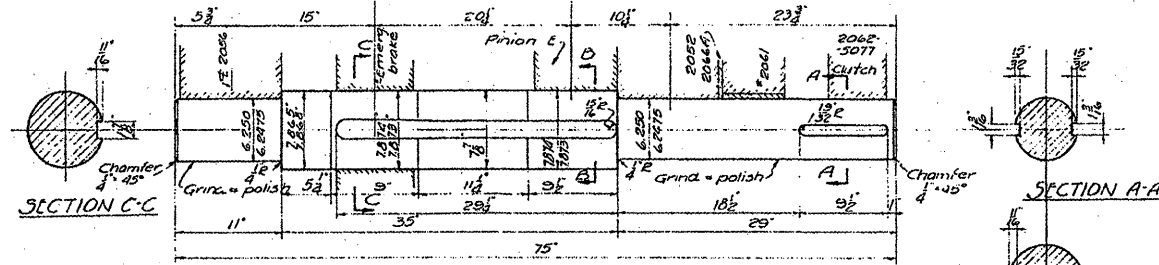


THRUST RINGS
PATT. NO. 2066-5083
PATT. NO. 2066A-5083

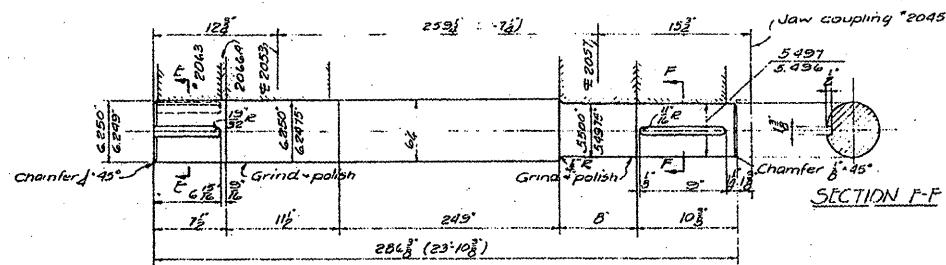
FOR INFORMATION ONLY

NOTES:
Steel forgings to be A.S.T.M. A18-37
Class C Std. 1930 Annealed.

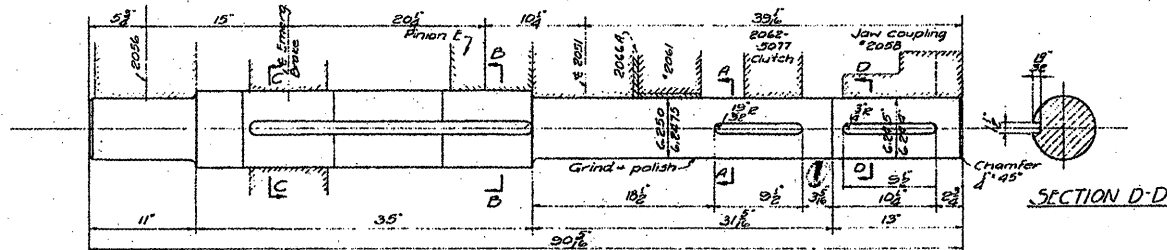
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| si:\pw\mark\KPM\DOT\MIDYJA\d014893E\DI1150-shr-plot.dgn | sh-plot.dgn | DRAWN - | REVISED - | | | 112 | M-BDR-1 | WILL | 66 | 54 |
| PLOT SCALE = 1/8" = 1" / IN. | | CHECKED - | REVISED - | | | CONTRACT NO. 62714 | | | | |
| PLOT DATE = 7/1/2009 | | DATE - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | |
| SCALE: | | | | | SHEET NO. 7 OF 10 SHEETS | | STA. | TO STA. | | |



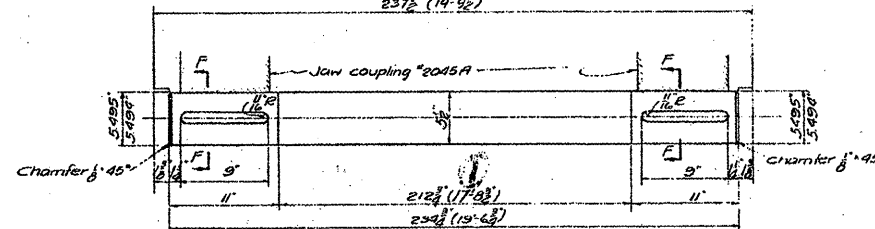
SHAFT
MARK 54
CARBON STEEL FORGING



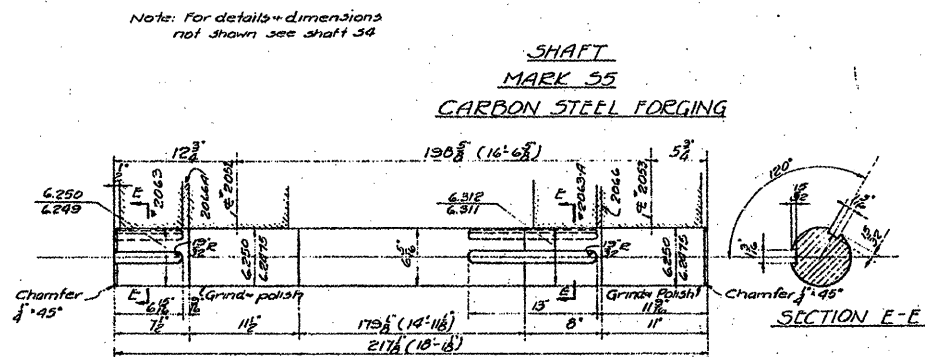
SHAFT
MARK 59
CARBON STEEL FORGING



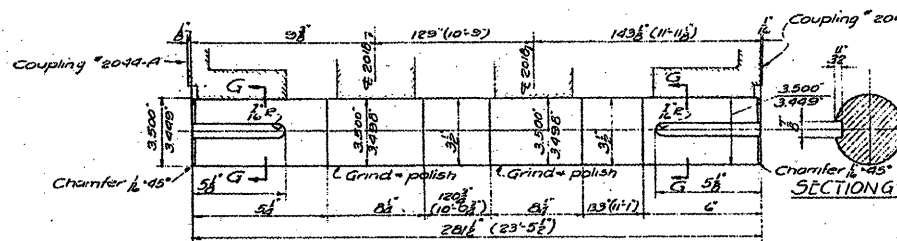
SHAFT
MARK 55
CARBON STEEL FORGING



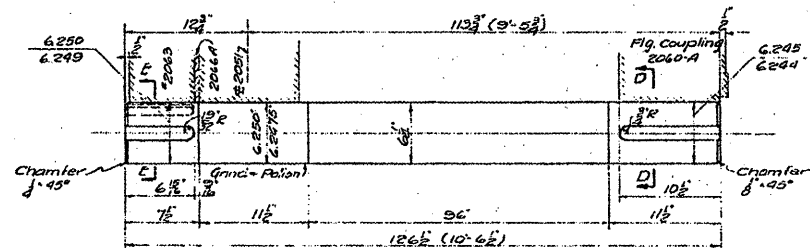
SHAFT
MARK 510
CARBON STEEL FORGING



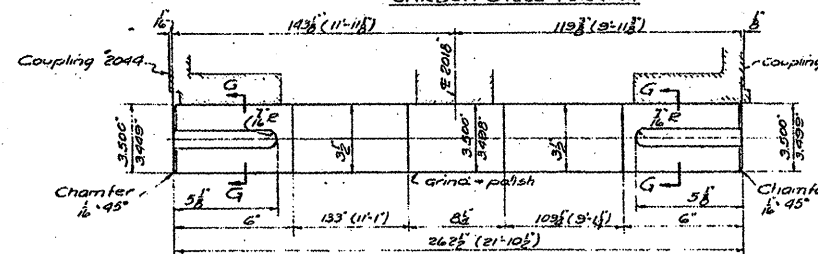
SHAFT
MARK 56
CARBON STEEL FORGING



SHAFT
MARK 511
CARBON STEEL FORGING



SHAFT
MARK 51
CARBON STEEL FORGING



SHAFT
MARK 512
CARBON STEEL FORGING

REQUIRED

| | |
|----------|-----|
| 2 SHAFTS | 54 |
| 2 SHAFTS | 55 |
| 2 SHAFTS | 56 |
| 2 SHAFTS | 57 |
| 4 SHAFTS | 59 |
| 2 SHAFTS | 510 |
| 1 SHAFT | 511 |
| 1 SHAFT | 512 |

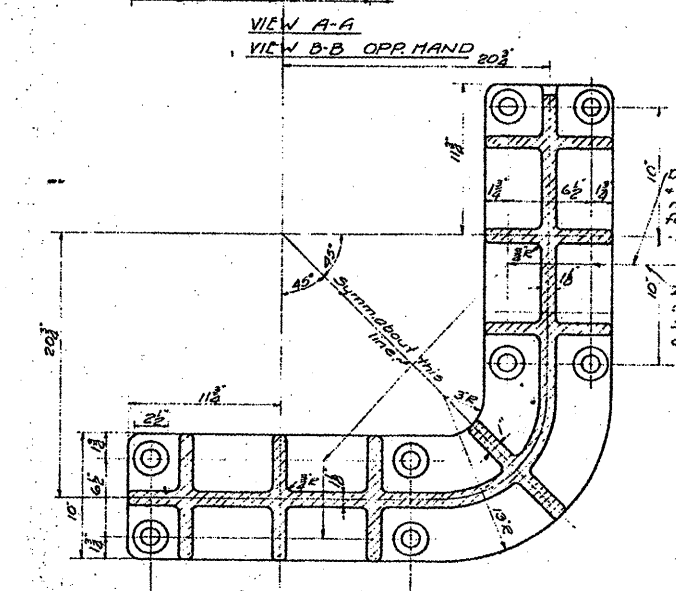
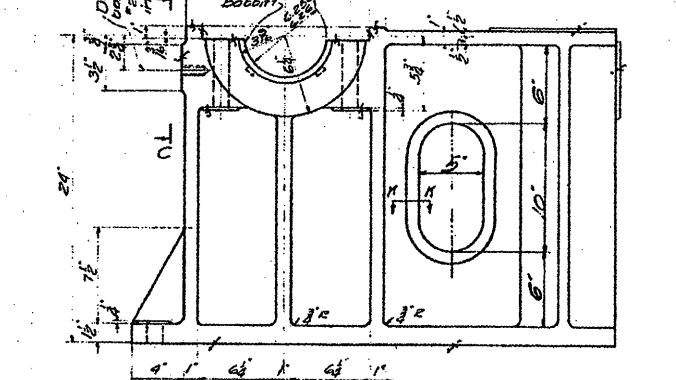
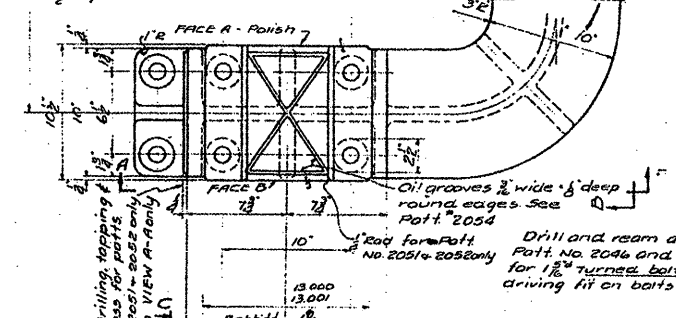
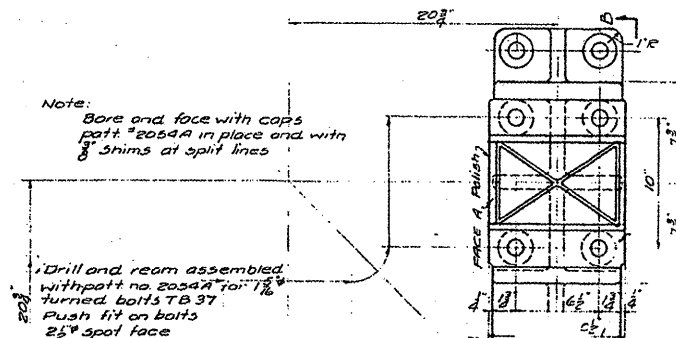
FOR INFORMATION ONLY

| | | | |
|--|--|------------|-----------|
| FILE NAME = | USER NAME = midjo | DESIGNED - | REVISED - |
| c:\pw\work\PMIDOT\MIDYJAN\0148931\011150 | shp-plan.dgn | DRAWN - | REVISED - |
| | PLOT SCALE = 183.218 "/td> <td>CHECKED -</td> <td>REVISED -</td> | CHECKED - | REVISED - |
| | PLOT DATE = 7/1/2009 | DATE - | REVISED - |

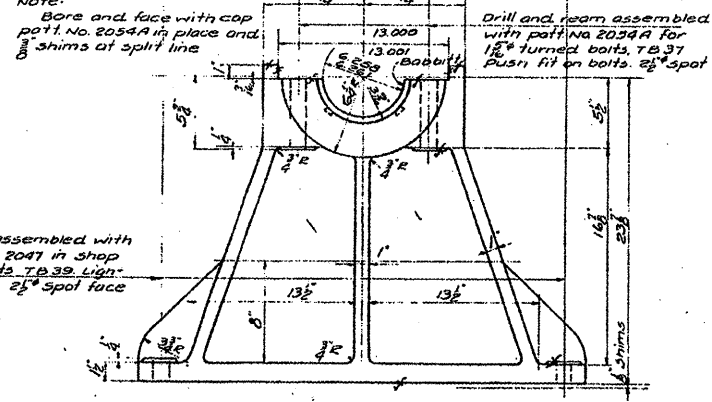
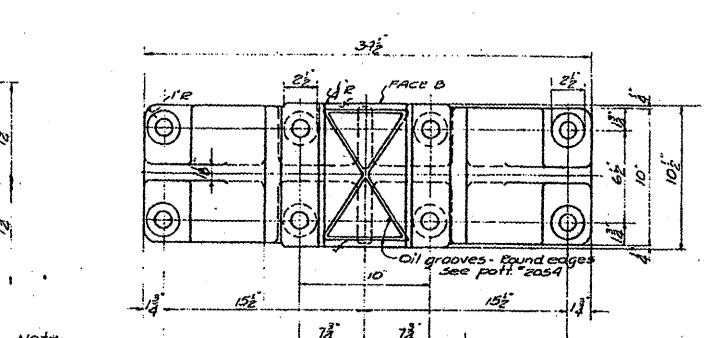
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | |
|------------------------------------|---------------------------------------|
| RUBY STREET OVER DES PLAINES RIVER | |
| SN 099-9901 | |
| SCALE: | SHEET NO. 8 OF 10 SHEETS STA. TO STA. |

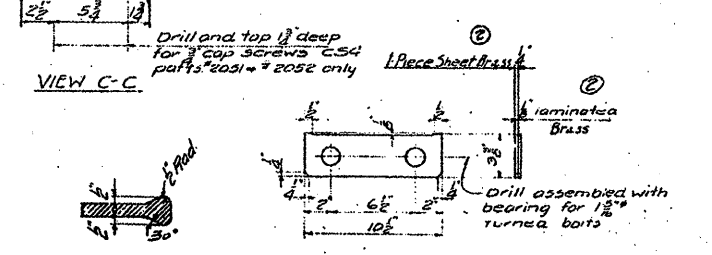
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|---------------------------|-----------------|-------------|-----------------|--------------------|
| F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 55 |
| | | | | CONTRACT NO. 62714 |
| ILLINOIS FED. AID PROJECT | | | | |



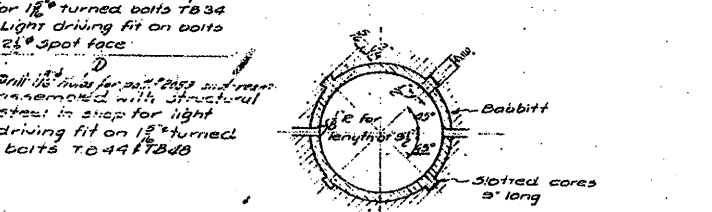
UNION BEARING
 PATT. NO. 2051-5077 RIGHT HAND
 PATT. NO. 2052-5077 LEFT HAND
 PATT. NO. 2053-5077
 CAST STEEL



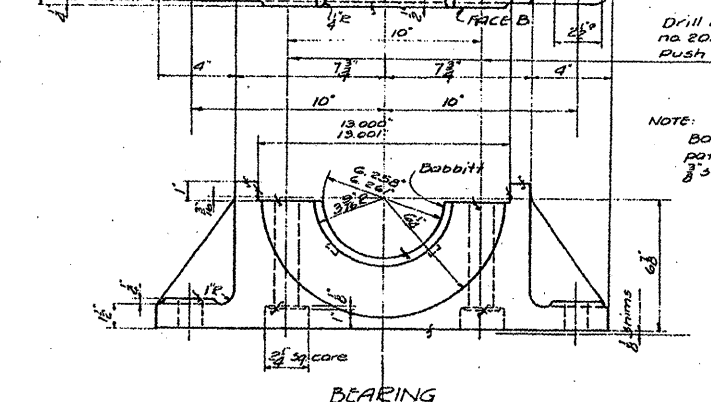
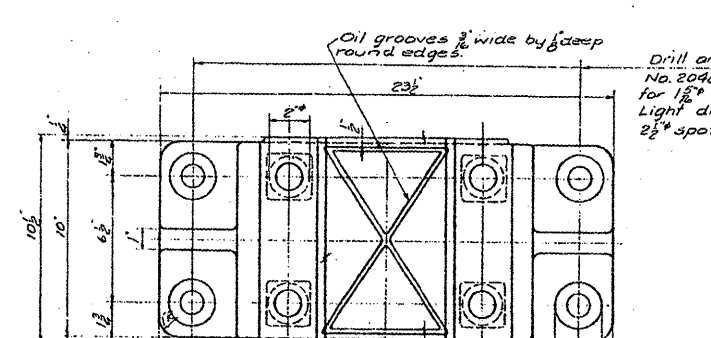
BEARING
 PATT. NO. 2056-5077
 CAST STEEL



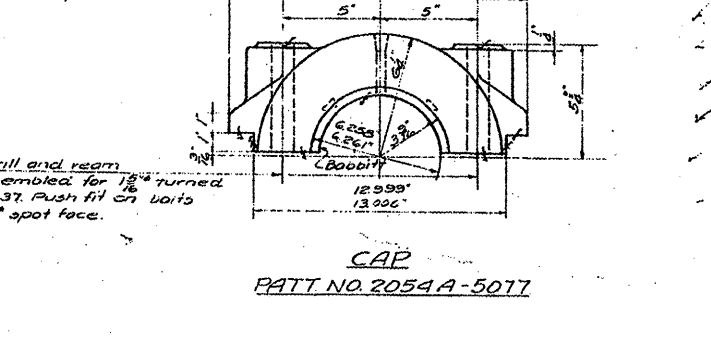
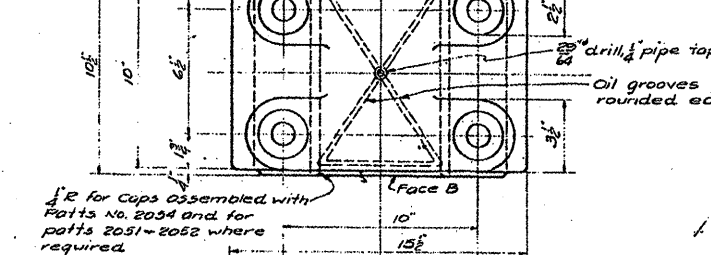
SHIMS 53-5083
 LAMINATED BRASS & SHEET BRASS
 Slip assembled with part no. 2051, 2052, 2053, 2054 & 2056.



DETAIL OF BABBITT FOR
 PATT. NO. 2051-2052-2053
 2054 & 2054A & 2056



BEARING
 PATT. NO. 2054-5077

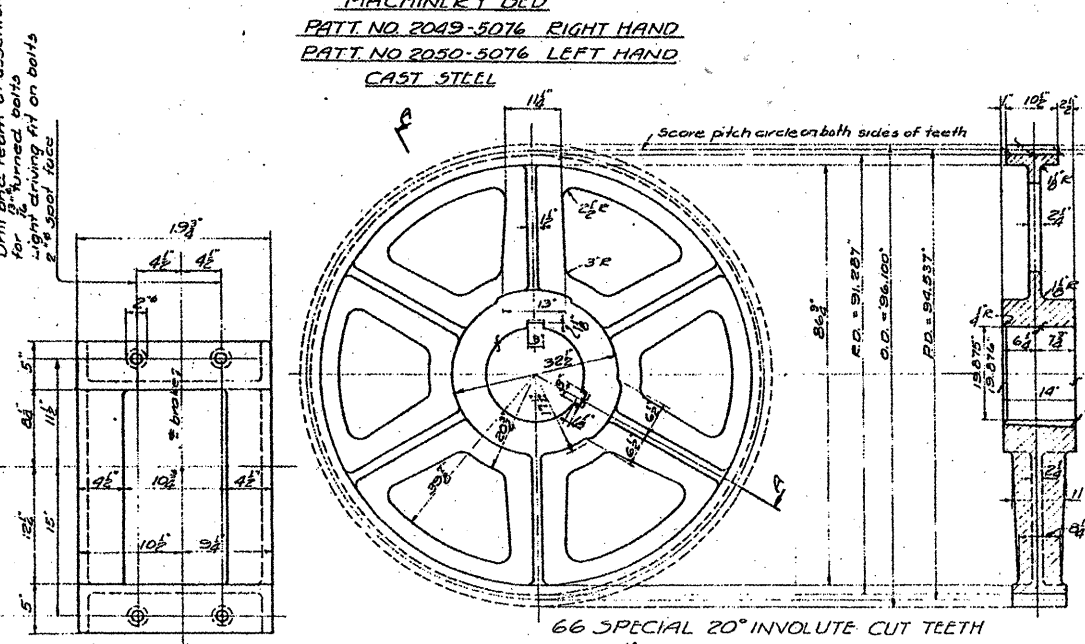
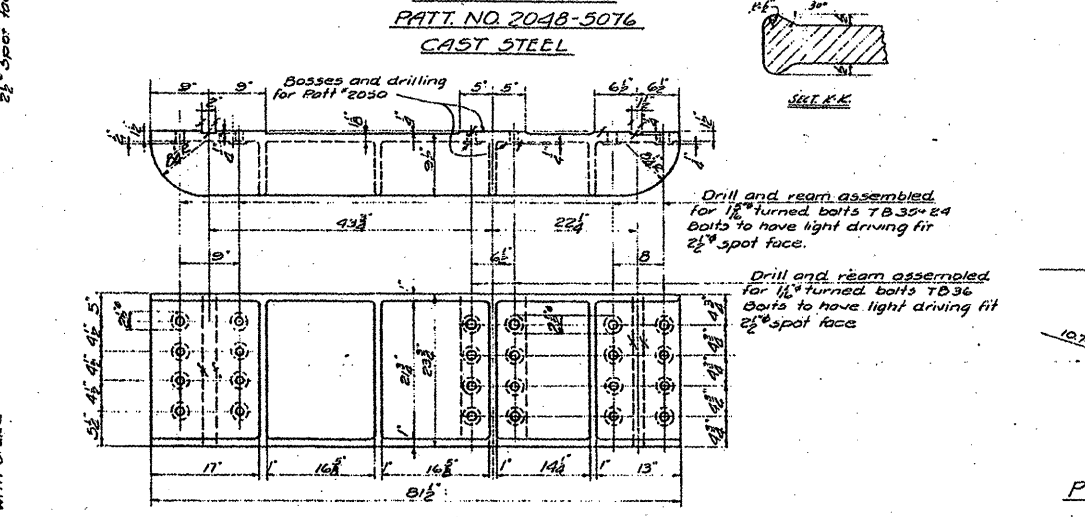
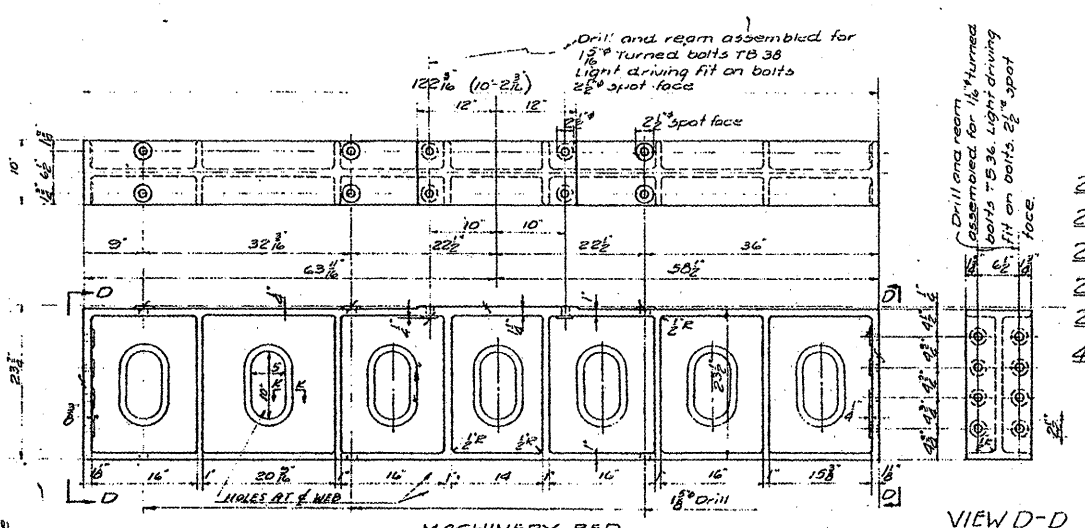
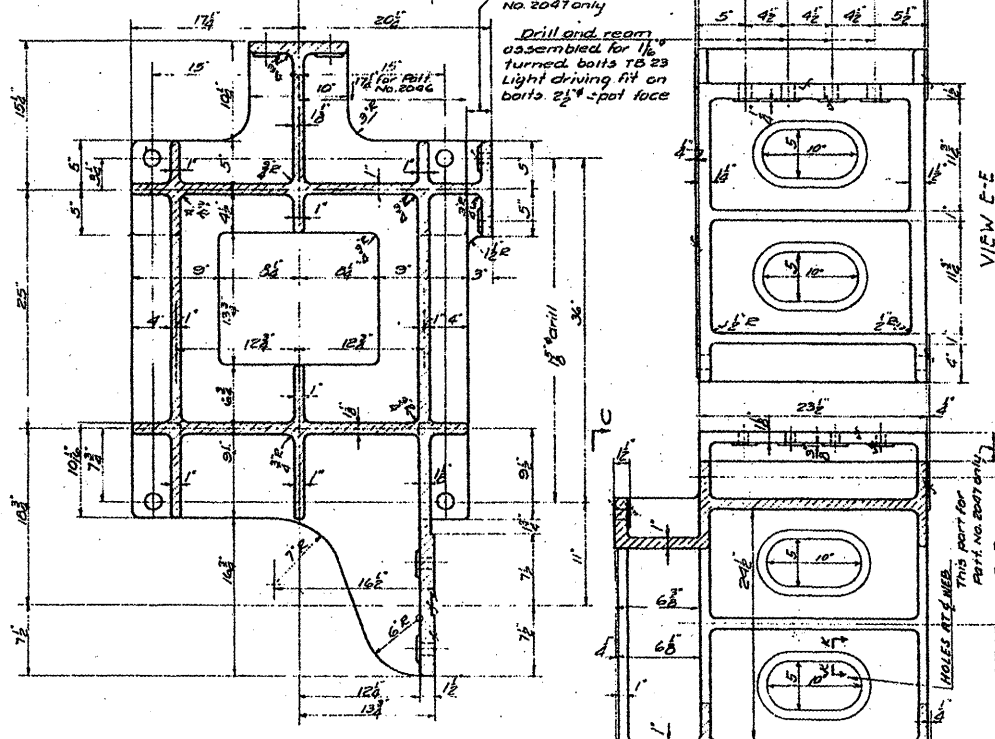
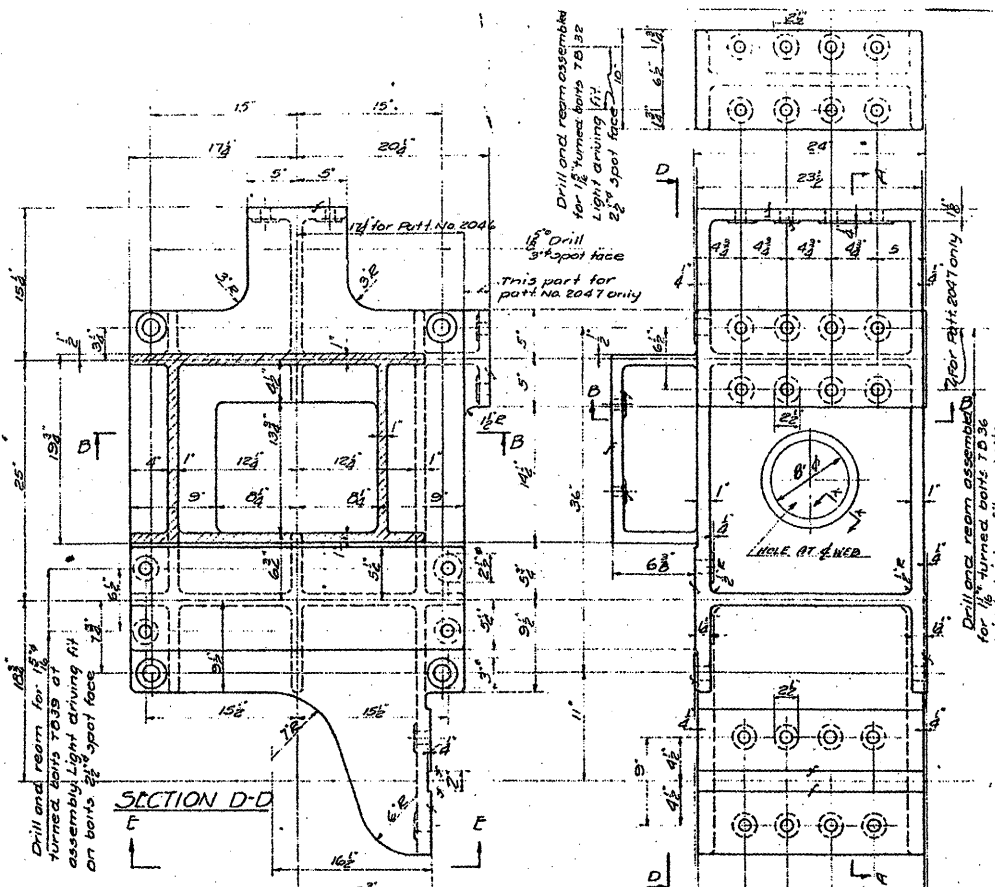


CAP
 PATT. NO. 2054A-5077

- REQUIRED LIST**
- ✓ 2 UNION BEARINGS PATT. NO. 2051-5077
 - ✓ 2 " " " NO. 2052-5077
 - ✓ 4 " " " NO. 2053-5077
 - ✓ 2 BEARINGS " NO. 2054-5077
 - ✓ 22 BEARING CAPS " NO. 2054A-5077
 - ✓ 4 BEARING " NO. 2056-5077
 - ✓ 44 SHIMS " 53-5083

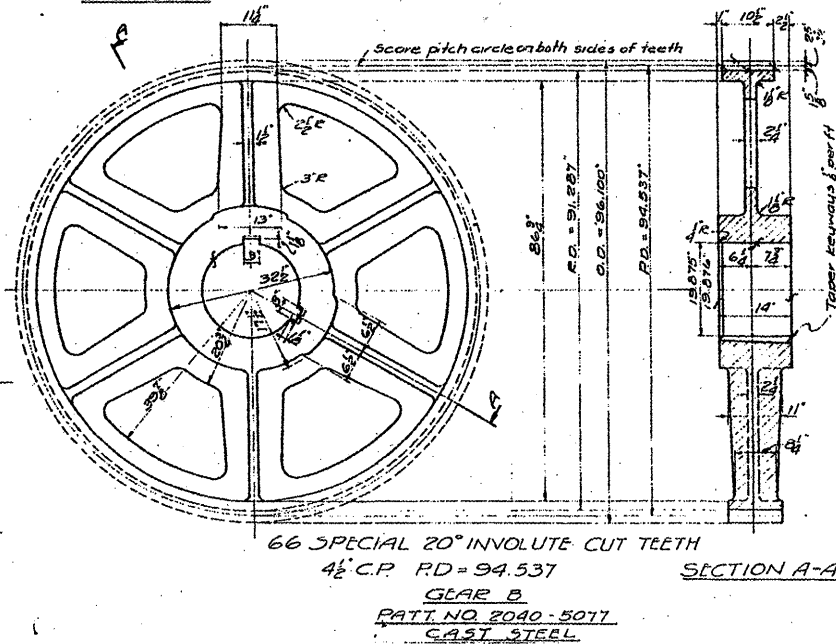
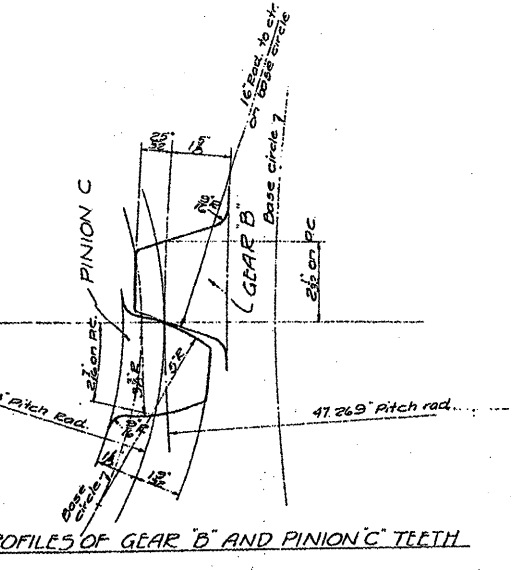
FOR INFORMATION ONLY

NOTES:
 Spec. for steel for castings A.S.T.M. A27-24 Std. 1930 Class B. Med. grade annealed.



REQUIRED LIST

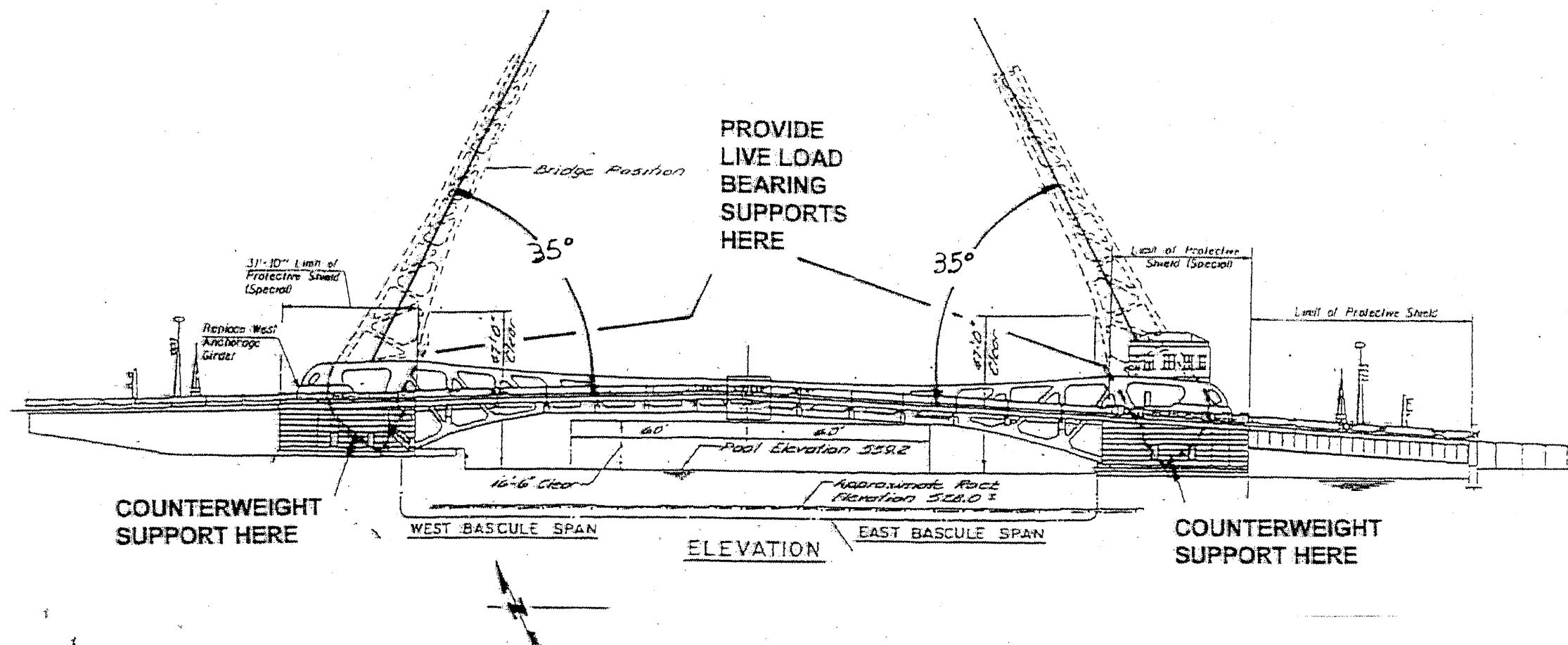
| | | |
|---|----------------|---------------------|
| 2 | MACHINERY BEDS | PATT. NO. 2046-5076 |
| 2 | " | " NO. 2047-5076 |
| 2 | " | " NO. 2048-5076 |
| 2 | " | " NO. 2049-5076 |
| 2 | " | " NO. 2050-5076 |
| 4 | GLARS 'B' | " NO. 2040-5077 |



NOTES:
 Spec. for steel for castings A.S.T.M. A21-24, 3rd 1930 class B Med. grade unannealed.
 COVER FINISHED SURFACES WITH WHITE LEAD AND TALLOW.

FOR INFORMATION ONLY

| | | | | | | | | | | | | |
|--|-------------------|------------|-----------|---|---|---------------------------|---------------------------|-------------|-----------------|--------------------|--|--|
| FILE NAME = | USER NAME = mdyje | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER SN 099-9901 | F.A.P. RTE. 112 | SECTION N-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 57 | | |
| of:\pw\work\NPWIDOT\MIDYJA\d814693\VD11158 | sh-t-plan.dgn | DRAWN - | REVISED - | | | SCALE: | SHEET NO. 10 OF 10 SHEETS | STA. | TO STA. | CONTRACT NO. 62714 | | |
| | | CHECKED - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | | |
| | | DATE | REVISED | | | | | | | | | |



NOTES FOR LUBRICATION AND BEARING REPLACEMENT

When trunnion bearing caps are removed for lubrication, or main pinion shafts are removed for main bearing replacements, the bridge shall be locked at a 35° position. See special provision Temporary Support System.

As soon as trunnion lubrication and main bearings and pinion shafts are aligned and installed, the bridge shall be tested for smooth operation, presence of any misalignment, abnormal heating of bearings, grinding or unusual acoustic emissions. Before the contractor makes the bridge leaf fully active again, its operational status shall be subject to the approval of the Engineer.

Work is to be completed on one leaf at a time and under no circumstance in the same leaf that is being blasted and painted.

| | | | | | | | | | | | |
|------------------------------------|-------------------|------------|-----------|---|---|---------------------------|---------|--------|--------------|-----------|--|
| FILE NAME = | USER NAME = mdyje | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER SN 099-8901 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| work\p1001\madyje\08148901\DI11150 | 08148901 | DRAWN - | REVISED - | | | 112 | M-BDR-1 | WILL | 66 | 57A | |
| | | CHECKED - | REVISED - | | | CONTRACT NO. 62714 | | | | | |
| | | DATE - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | |
| | | | | SCALE: | | SHEET NO. OF 30 SHEETS | | STA. | TO STA. | | |

ADDED 09/12/2011 VHV

TEMPORARY SUPPORT SYSTEM REACTIONS AT 35° POSITION
(for counterweight)

| Wind Direction | Wind Force at | | | |
|----------------|---------------|---------------|---------------|---------------|
| | 80 mph (kips) | 70 mph (kips) | 60 mph (kips) | 50 mph (kips) |
| Longitudinal | 121 | 93 | 69 | 48 |
| 45° Diagonal | 188 | 144 | 106 | 74 |

TEMPORARY SUPPORT SYSTEM REACTIONS AT 35° POSITION
(for Live Load Bearings*)

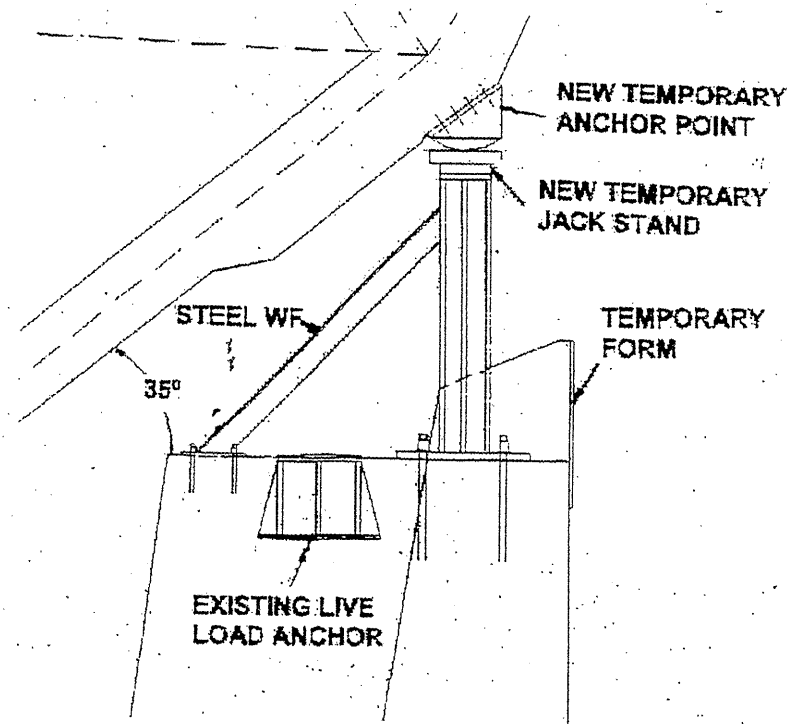
| Wind Direction | Wind Force at | | | |
|----------------|---------------|---------------|---------------|---------------|
| | 80 mph (kips) | 70 mph (kips) | 60 mph (kips) | 50 mph (kips) |
| Longitudinal | 216 | 160 | 117 | 82 |
| 45° Diagonal | 323 | 247 | 181 | 126 |

* These loads are shared by two live bearing supports.

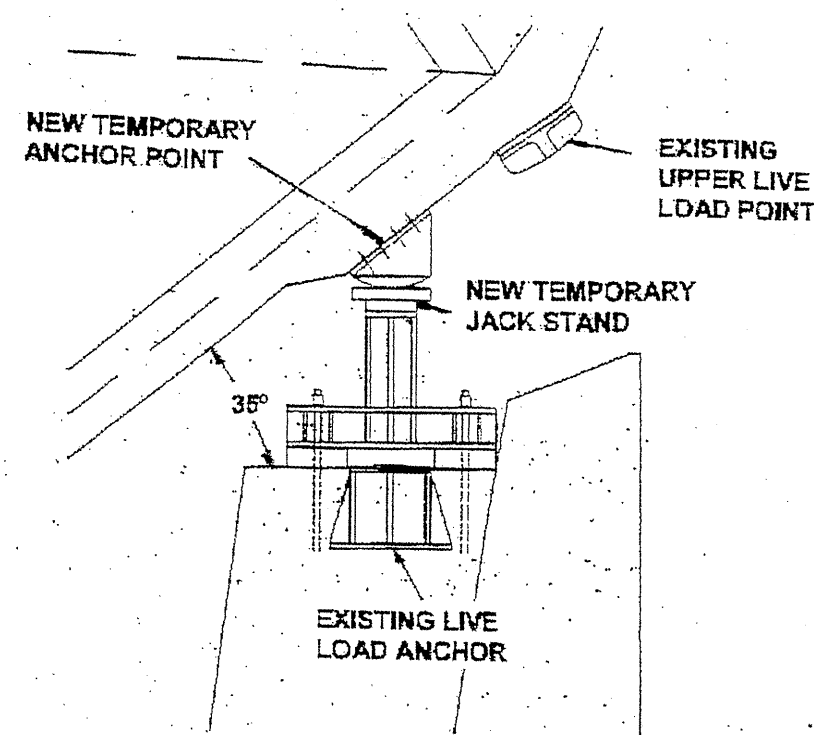
Two live load bearing supports design are recommended. Alternate No. 1 uses the existing upper live load bearing, with a temporary river wall support. Alternate No. 2 requires strengthening of the attachment point on the structural member to provide better load sharing since it is not in line with principal support points.

BILL OF MATERIAS

| ITEM | UNIT | QUANTITY |
|-------------------------|------|----------|
| TEMPORARY SUPPORT SYTEM | EACH | 2. |

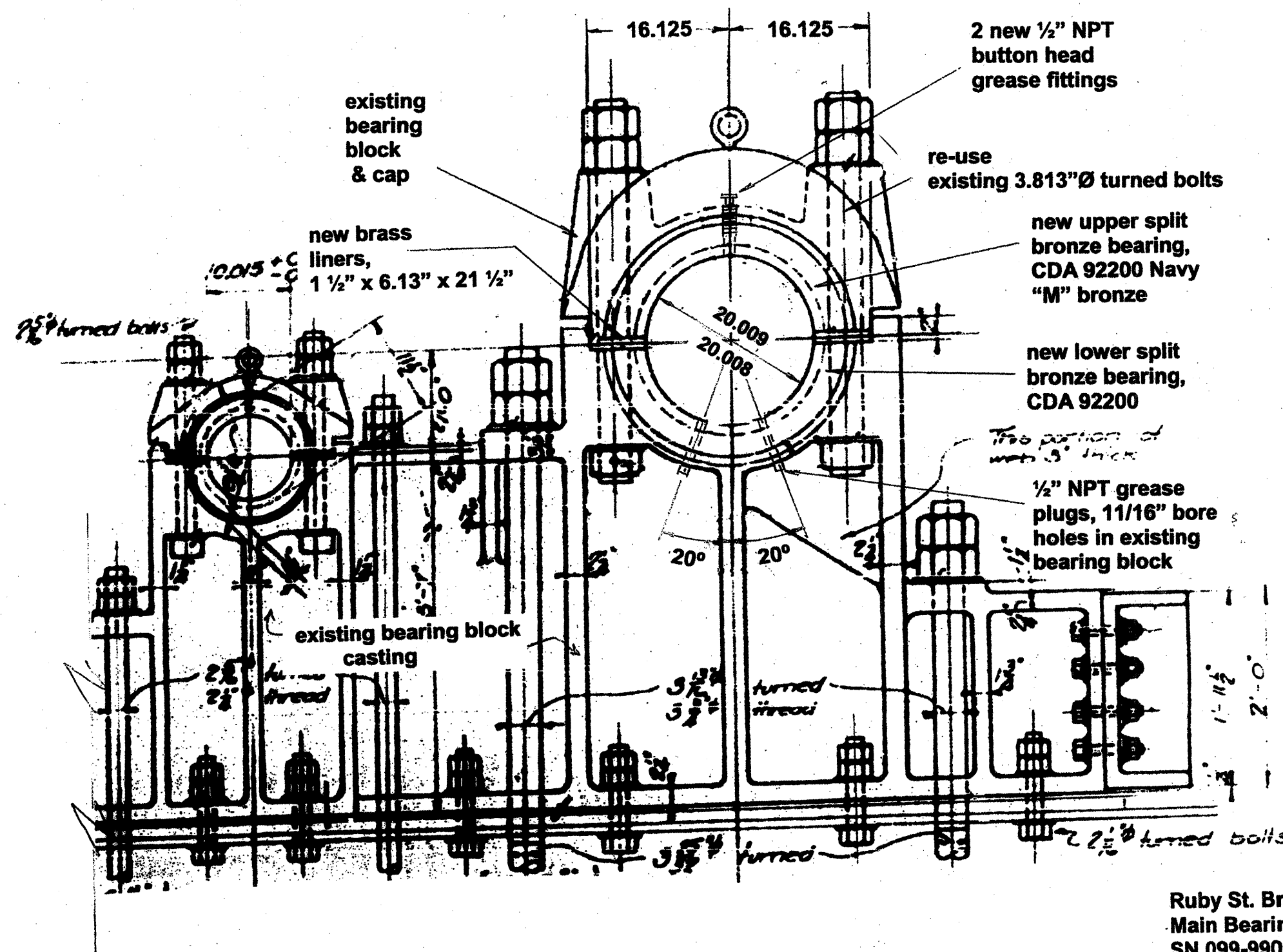


LIVE LOAD BEARING SUPPORT
ALTERNATE NO. 1



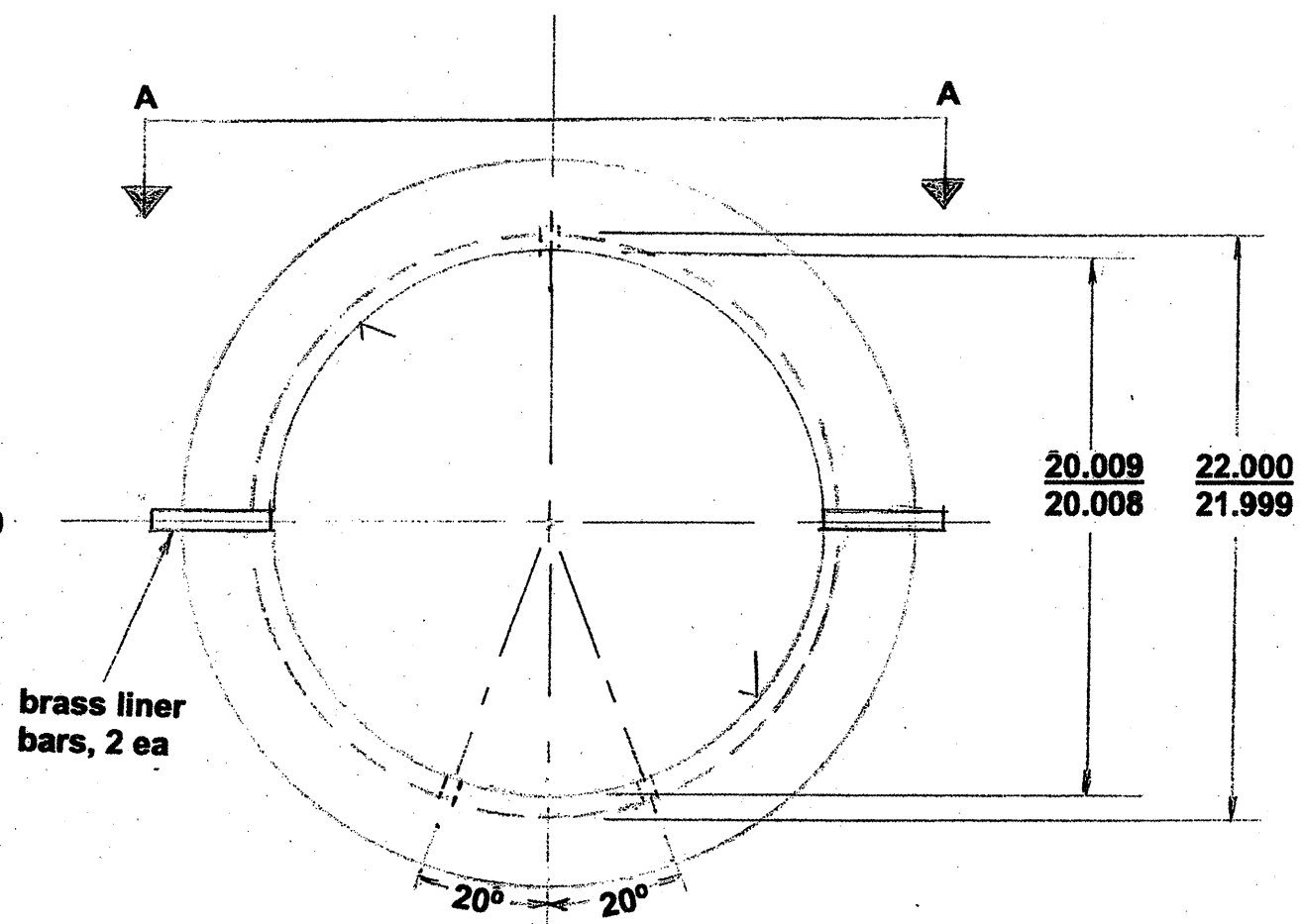
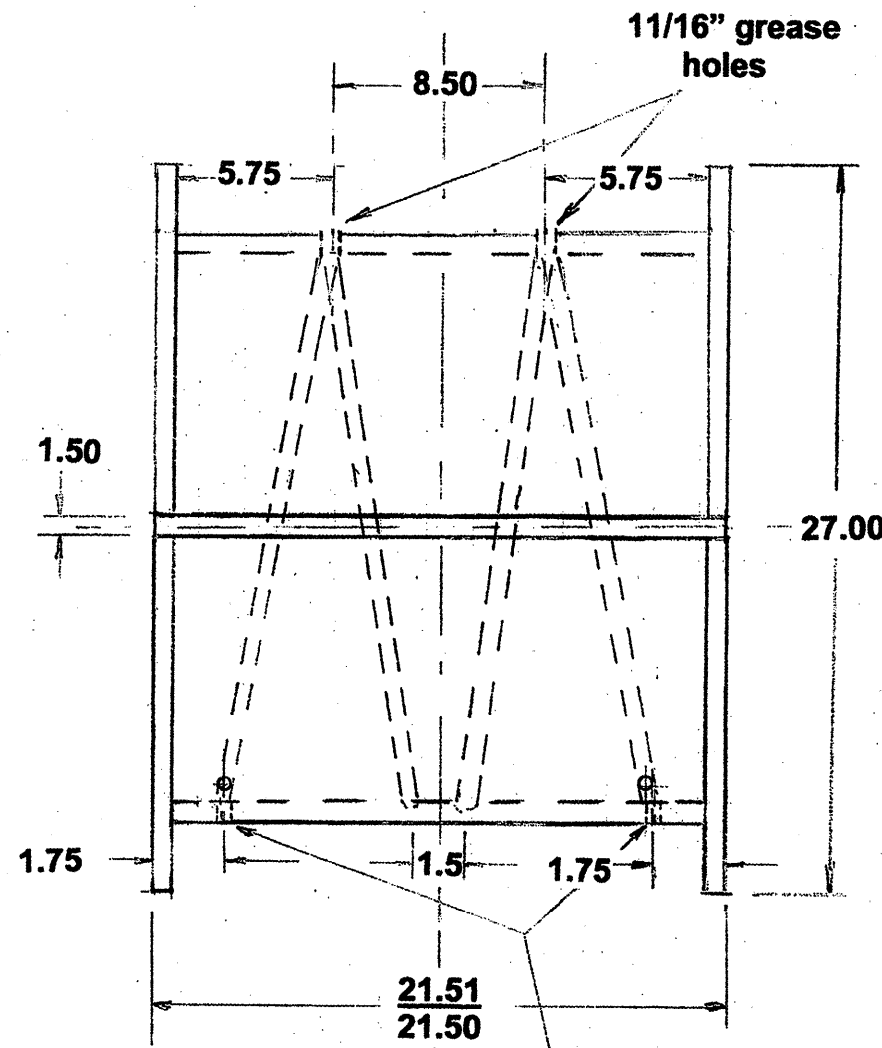
LIVE LOAD BEARING SUPPORT
ALTERNATE NO. 2

ADDED 09/12/2011 VHV



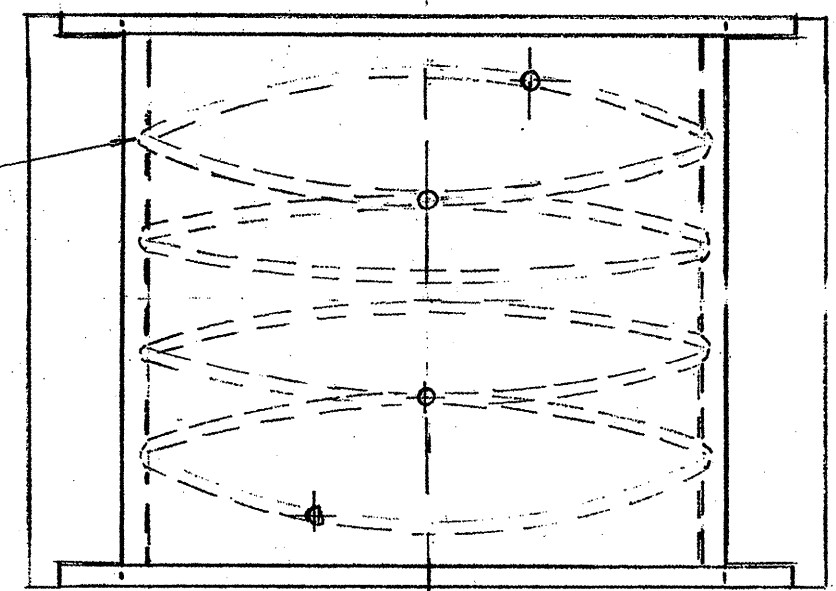
Ruby St. Bridge
Main Bearings
SN 099-9901

| | | | | | | | | | | |
|--|--------------------|----------------|-----------|---|--|---------------------------|---------|--------|-----------------|--------------|
| FILE NAME = | USER NAME = midyjo | DESIGNED - RTB | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER BEARING RETROFIT | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| ca:\pwwork\VPWIDOT\MIDYJA\0148931\011150 | *sht-plen.dgn | DRAWN - | REVISED - | | | 112 | M-BDR-1 | WILL | 66 | 58 |
| PLOT SCALE = 100.0000' / IN. | CHECKED - | REVISED - | REVISED - | | | CONTRACT NO. 62714 | | | | |
| PLOT DATE = 7/21/2009 | DATE - | REVISED - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | |
| | | | | SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA. | | | | | | |



grease plug holes, 11/16"Ø

grease channel patterns; cut corresponding channels into brass liners to permit grease flow



VIEW "A - A"

**Ruby St. Bridge
Main Bearings**

**Material: CDA 92200
Cast Navy "M" Bronze
Liners: CDA 36000
Free-Cutting Brass**

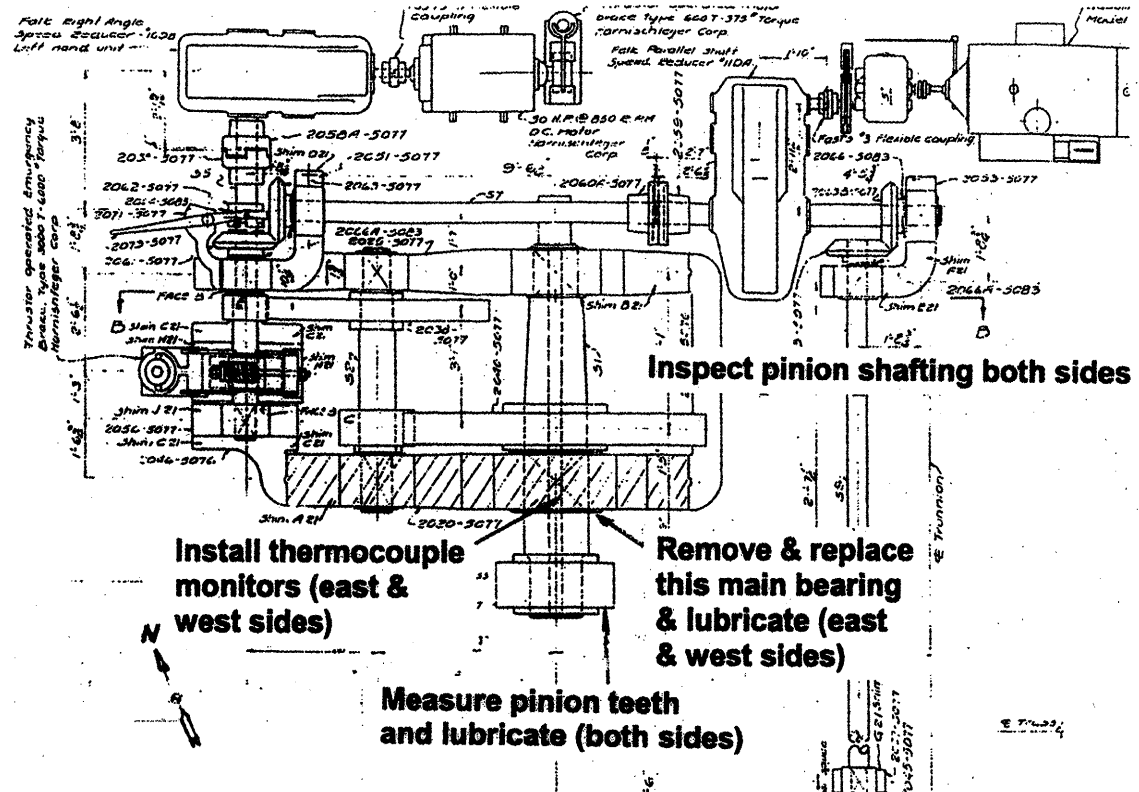
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|--|-----------------------------|----------------|-----------|
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| | PLOT SCALE = 100.0000 / IN. | CHECKED - | REVISED - |
| | PLOT DATE = 7/21/2009 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

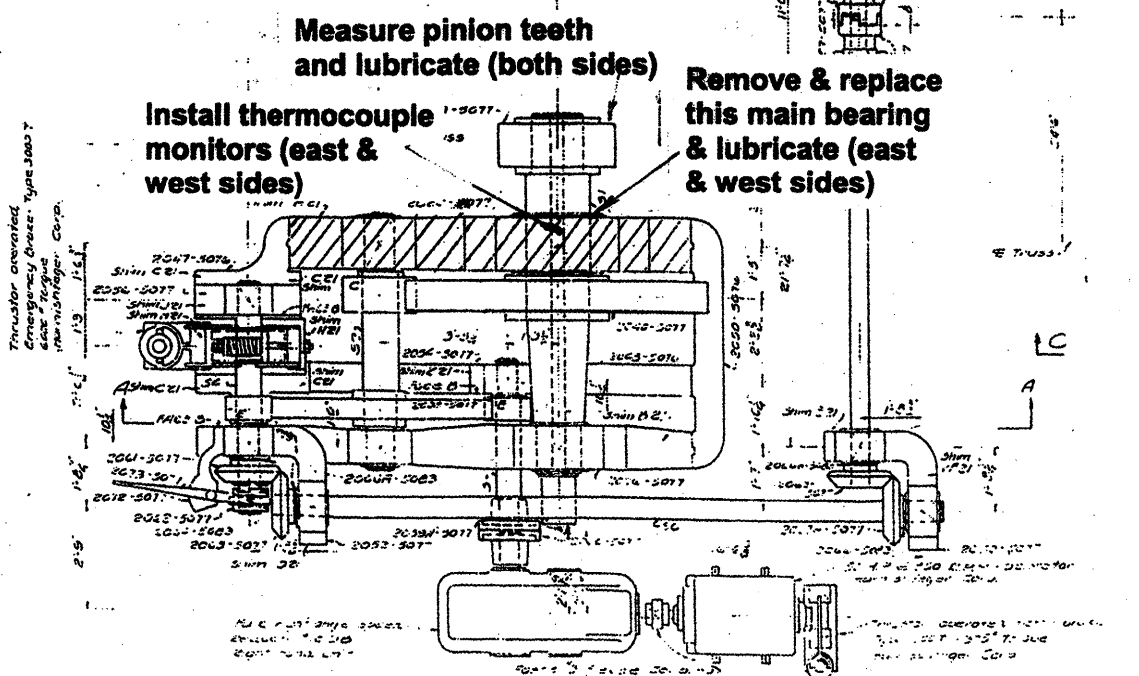
RUBY STREET OVER DES PLAINES RIVER
BEARING RETROFIT

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

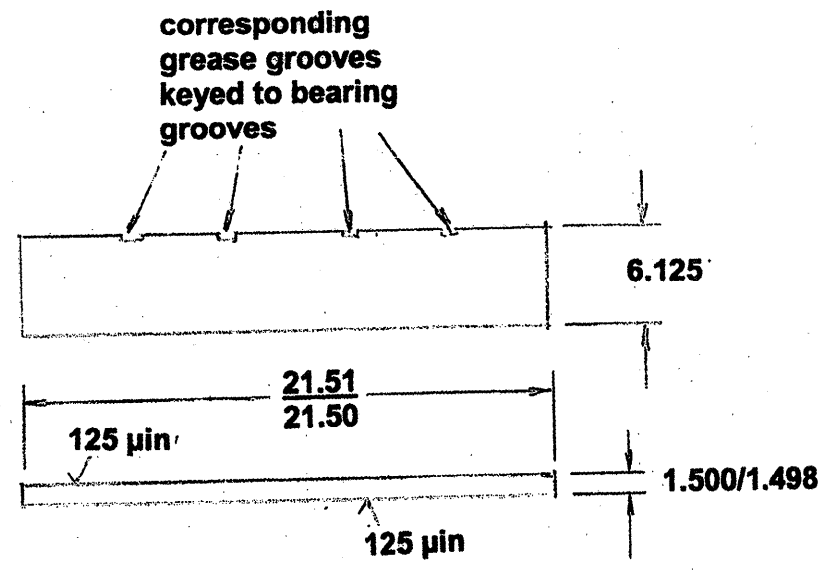
| | | | | |
|--------------------|---------|--------|---------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 112 | M-BDR-1 | WILL | 66 | 59 |
| CONTRACT NO. 62714 | | | ILLINOIS FED. AID PROJECT | |



WEST LEAF
 Machinery for each leaf is symmetrical
 About this center line except as shown

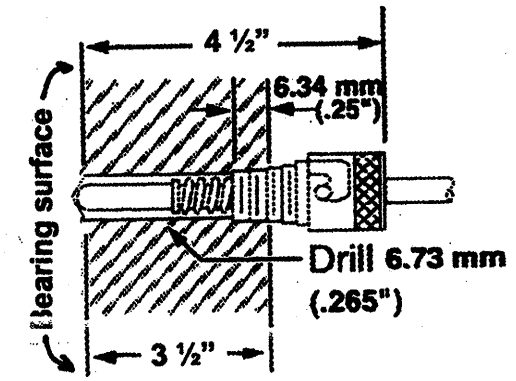


MACHINERY DIAGRAM FOR WEST LEAF
RUBY ST. BRIDGE

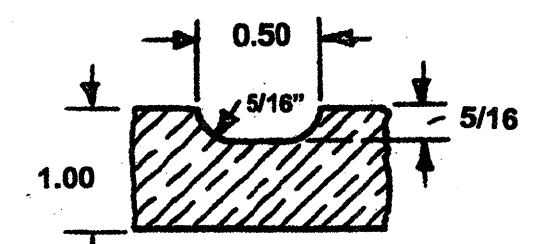


Brass Liner Bars

Material: CDA 36000
 Free-Cutting Brass 1/2 Hard
 Parallelism ±0.005

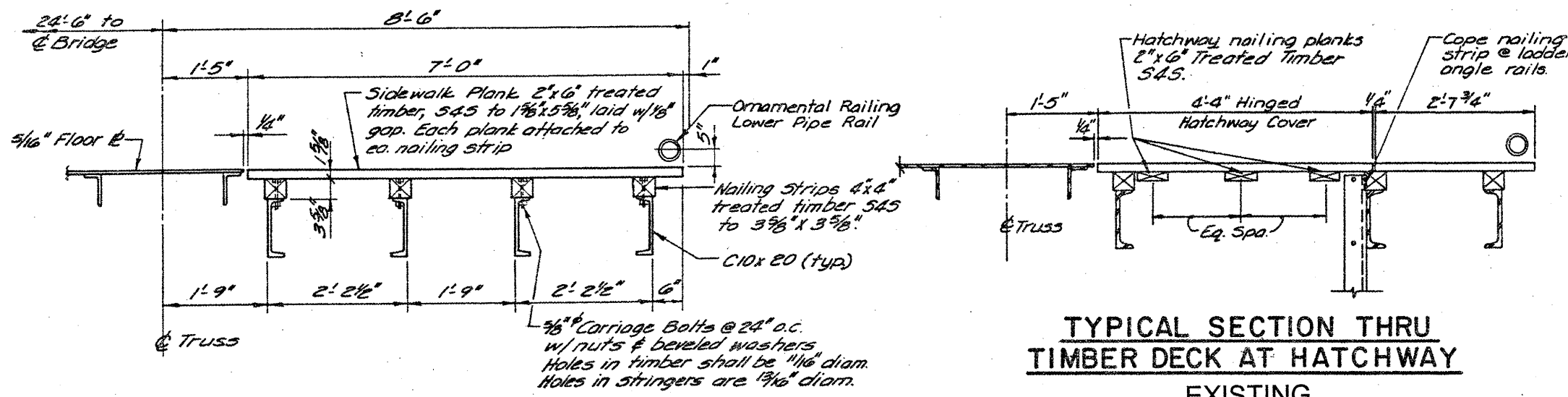


THERMOCOUPLE DETAIL
 Type J or K thermocouple



Grease Groove Detail

| | | | | | | | | | | |
|------------------------------|--------------------|-------------------------|--------------|---|--|---------------------------|-----------------|-------------|-----------------|--------------|
| FILE NAME = | USER NAME = midyja | DESIGNED - RTB | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER BEARING RETROFIT | F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 60 |
| CONTRACT NO. 62714 | SCALE: | SHEET NO. 3 OF 3 SHEETS | STA. TO STA. | | | ILLINOIS FED. AID PROJECT | | | | |
| PLOT SCALE = 100.0000' / IN. | CHECKED - | REVISOR - | | | | | | | | |
| PLOT DATE = 7/21/2009 | DATE - | REVISOR - | | | | | | | | |

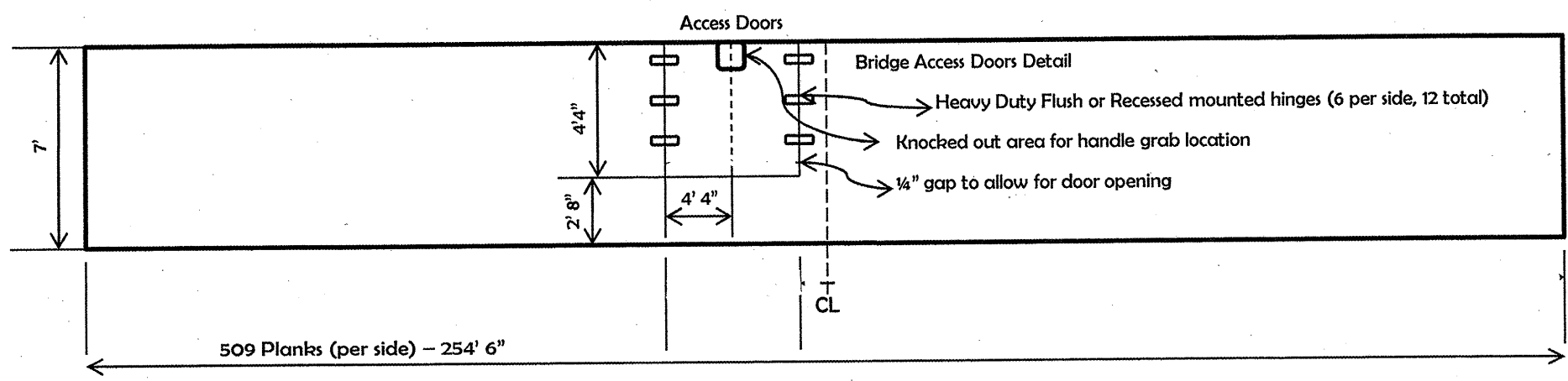


TYPICAL SECTION THRU TIMBER DECK SIDEWALK EXISTING

TYPICAL SECTION THRU TIMBER DECK AT HATCHWAY EXISTING

APPROXIMATE ESTIMATED QUANTITIES
 TIMBER: 1018 planks (3,563 sq. ft.) = 7,126 FBM
 4" x 4" Nailing Strips = 128 (16' 0")
 HARDWARE = see quantities outlined below

NOTE: ONLY ONE SIDEWALK SHALL BE CLOSED AT A TIME



Timber Sidewalk Replacement Notes

Use 4" x 4" Treated Timber Nailing Strip surfaced to 3 1/2" x 3 1/2". Secure nailing strip to sidewalk with 5/8" x 5" long galvanized carriage head bolts at 2' - 0" on center, using existing holes in channel stringers. Beveled galvanized washers are required on channels.

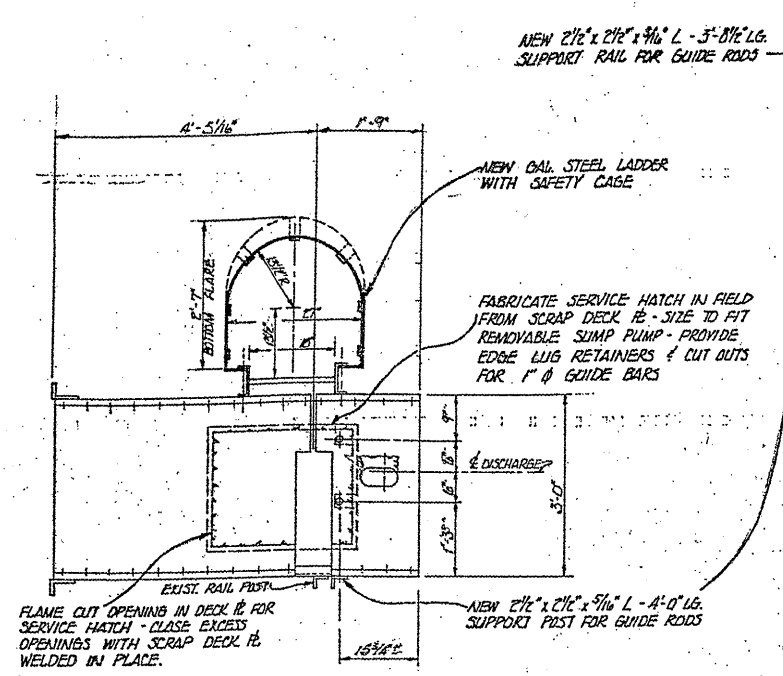
Use planks 2" x 6" x entire length of sidewalk. To attach planks to nailer, #10 x 3 1/2" deck screws. Leave 1/8" gap between planks.

Schedule of Quantities Needed

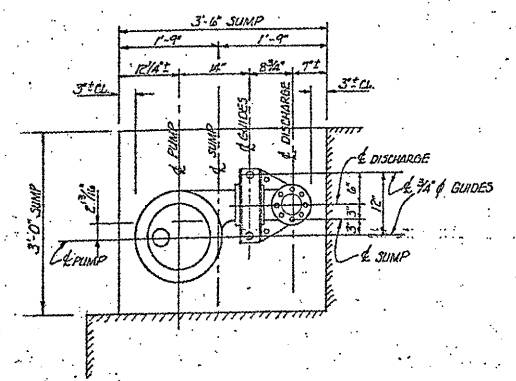
- 2" x 6" x 7' *treated timbers = 1018 Each
- Nailing strips 4" x 4" x 16' treated timbers = 128 Each
- 5/8" x 4" carriage bolts & nuts = 1024 Each
- 5/8" diameter bevel head washers = 1024 Each
- #10 x 3 1/2" deck screws = 8300 Each
- Flush/Recessed Heavy Duty Hinges for Access Doors - 12 Each

| ITEM | UNIT | QUANTITY |
|---|-------|----------|
| TIMBER SIDEWALK REMOVAL AND REPLACEMENT | L SUM | 1 |

| | | | | | | | | | | | | |
|-----------------------------|-------------------|----------------|-----------|---|---|-----------------|-----------------|---------------------------|-----------------|--------------|--|--|
| FILE NAME = | USER NAME = mdyje | DESIGNED - RTB | REVISD - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER TIMBER SIDEWALK REPLACEMENT | F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 61 | | |
| CONTRACT NO. 62714 | SCALE: | SHEET NO. | OF SHEETS | | | STA. | TO STA. | ILLINOIS FED. AID PROJECT | | | | |
| PLOT SCALE = 1/8" = 1' - 0" | CHECKED - | REVISD - | REVISD - | | | | | | | | | |
| PLOT DATE = 6/30/2011 | DATE - | REVISD - | REVISD - | | | | | | | | | |



PLAN - PROPOSED PLATFORM MODIFICATIONS



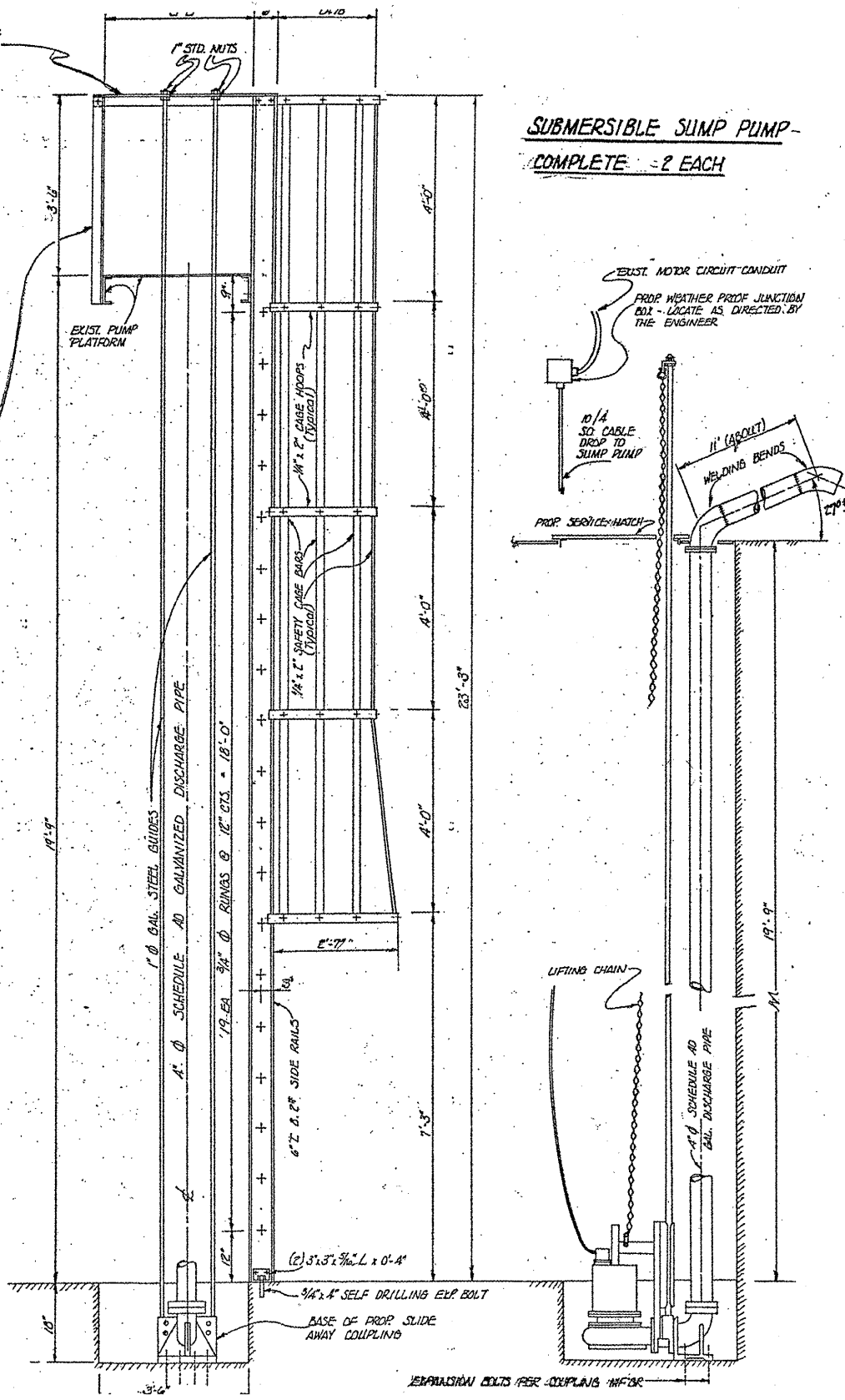
PLAN - PROPOSED SUMP PUMP LOCATION

PUMP SHALL BE HEAVY DUTY SUBMERSIBLE SEWAGE PUMP
 2\"/>

NOTE:

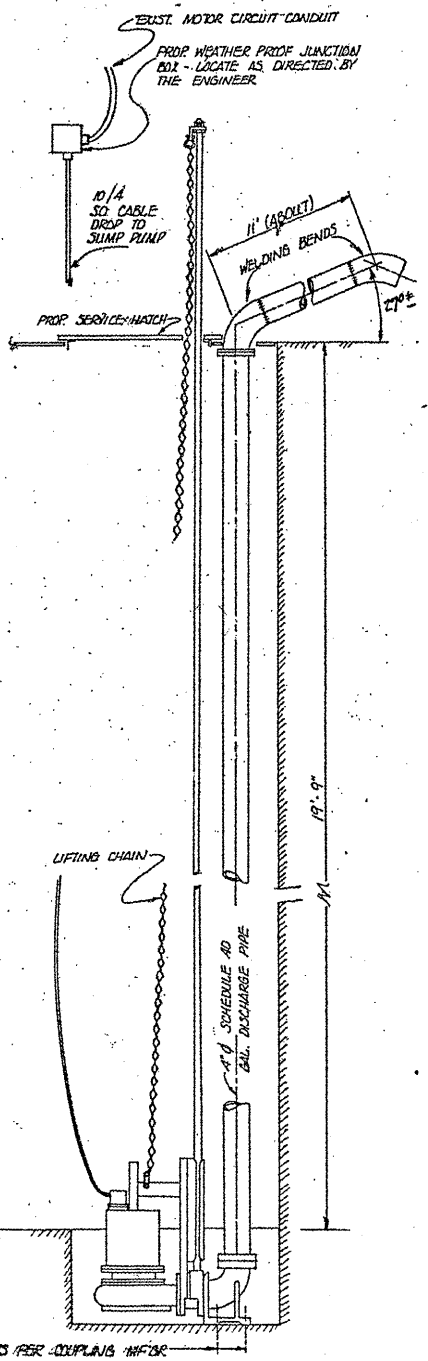
- REPLACE SUMP PUMPS AT EACH COUNTER WEIGHT PIT.
- WORKING SUMP PUMP AT EAST COUNTER WEIGHT PIT TO BE SALVAGED AND DELIVERED TO MOVABLE BRIDGE OFFICE.
- REPLACE ALL DISCHARGE PIPING AT BOTH COUNTER WEIGHT PITS.
- NEW SUMP PUMPS SHALL FIT ONTO EXISTING GUIDE RODS AND EXISTING SLIDE AWAY COUPLING.
- NEW PUMPS SHALL INCLUDE NEW POWER CABLE FROM EXISTING JUNCTION BOX AND NEW LIFTING CHAIN.

BASIS OF PAYMENT: SUMP PUMP REPLACEMENT SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE L SUM FOR SUMP PUMP REPLACEMENT.



ELEVATION - PROP. LADDER & SAFETY CAGE - GUIDES & SUPPORTS - (STREAM SIDE ELEV.)

SUBMERSIBLE SUMP PUMP - COMPLETE - 2 EACH



SECTION THROUGH OF SUMP

BILL OF MATERIALS

| ITEM | UNIT | QUANTITY |
|-----------------------|-------|----------|
| SUMP PUMP REPLACEMENT | L SUM | 1 |

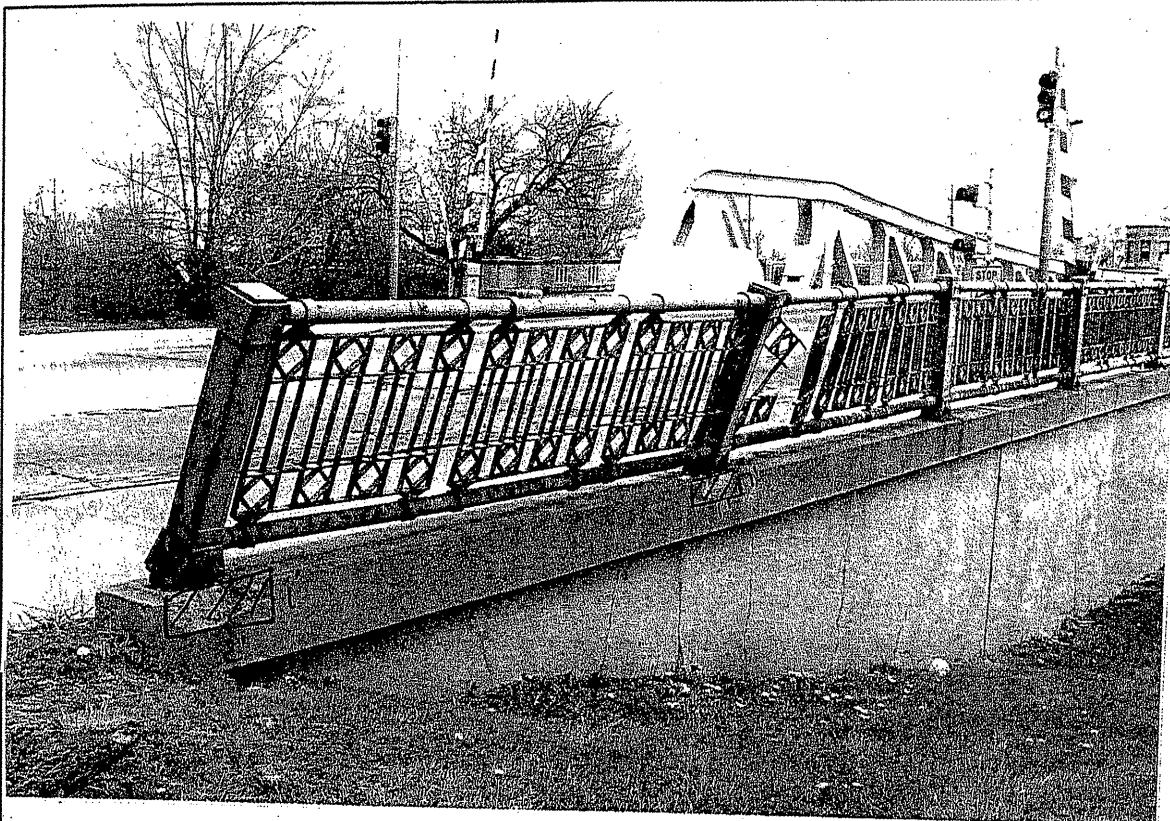
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|---|-----------------------|----------------|-----------|
| FILE NAME = | USER NAME = midjo | DESIGNED - RTB | REVISED - |
| ca:\pwwork\pwwork\midjo\0148931\0111584 | sht-plen.dgn | DRAWN - | REVISED - |
| | PLOT SCALE = 1/8\"/> | | |
| | PLOT DATE = 5/27/2011 | CHECKED - | REVISED - |
| | | DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RUBY STREET OVER DES PLAINES RIVER
 SUMP PUMP REPLACEMENT**

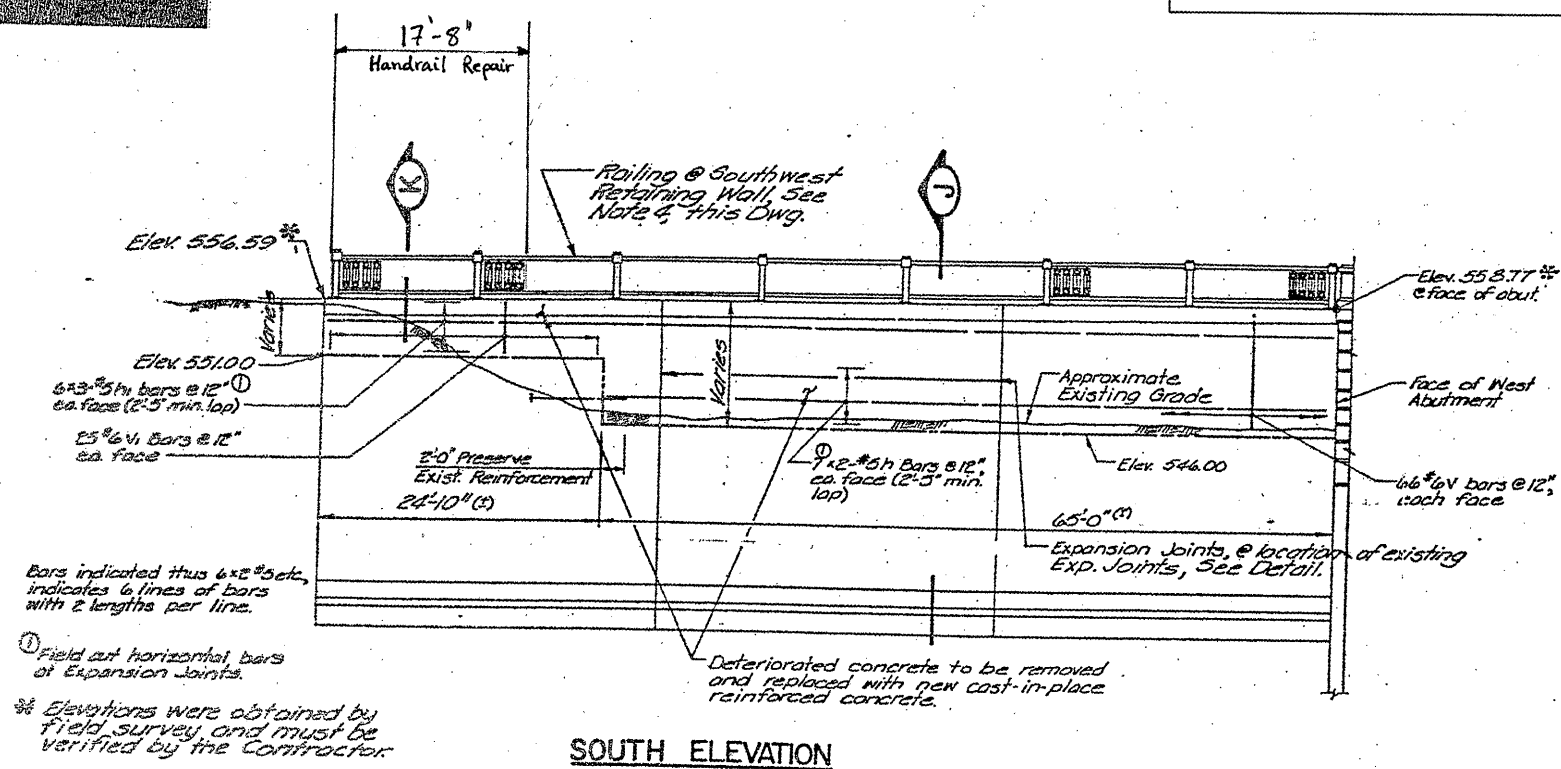
SCALE: SHEET NO. OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------------|-------------|-----------------|--------------------|
| F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 62 |
| | | | | CONTRACT NO. 62714 |
| ILLINOIS FED. AID PROJECT | | | | |



BILL OF MATERIALS

| ITEM | UNIT | QUANTITY |
|------------------|-------|----------|
| HANDRAIL REPAIRS | L SUM | 1 |



Bars indicated thus 6 #3 #5h etc, indicates 6 lines of bars with 2 lengths per line.

① Field cut horizontal bars at Expansion Joints.

* Elevations were obtained by field survey, and must be verified by the Contractor.

Deteriorated concrete to be removed and replaced with new cast-in-place reinforced concrete.

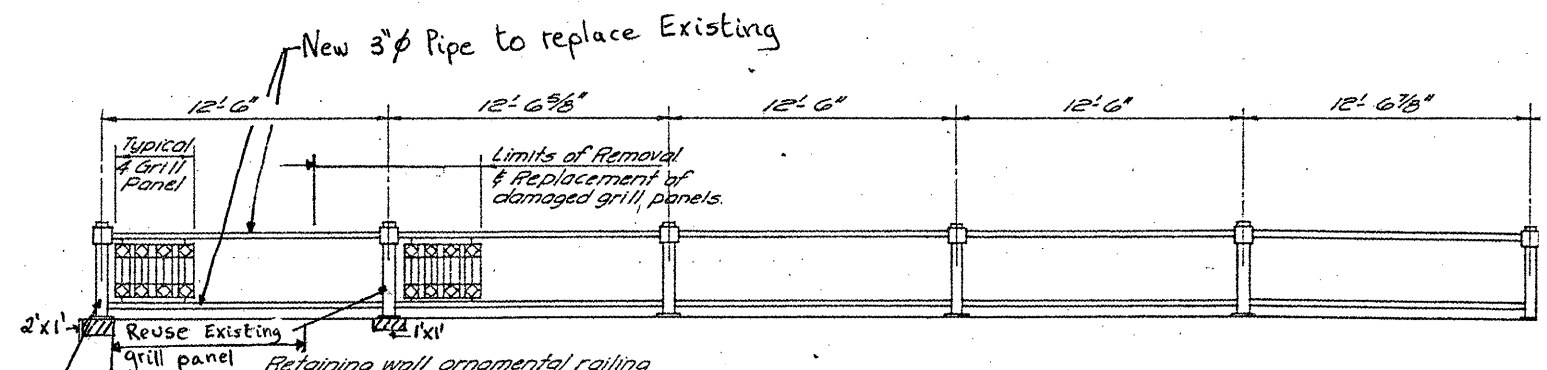
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| FILE NAME = | USER NAME = midjje | DESIGNED - RTD | REVISED - |
| ct:\pw_work\midjje\0148931\0111504 | sh-t-plen.dgn | DRAWN - | REVISED - |
| PLOT SCALE = 1/8" = 1'-0" | | CHECKED - | REVISED - |
| PLOT DATE = 5/27/2011 | | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RUBY STREET OVER DES PLAINES RIVER
HANDRAIL REPAIRS**

SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

| | | | | |
|---------------------------|---------|--------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 112 | M-BDR-1 | WILL | 66 | 63 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62714 | |



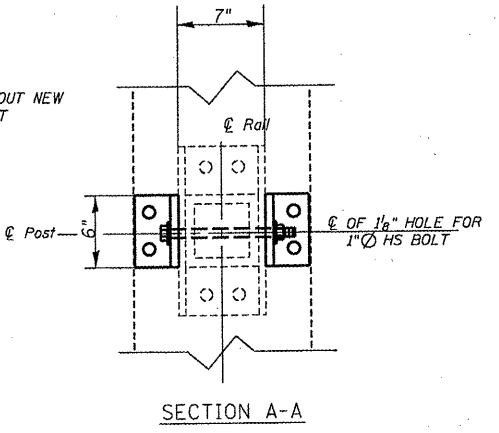
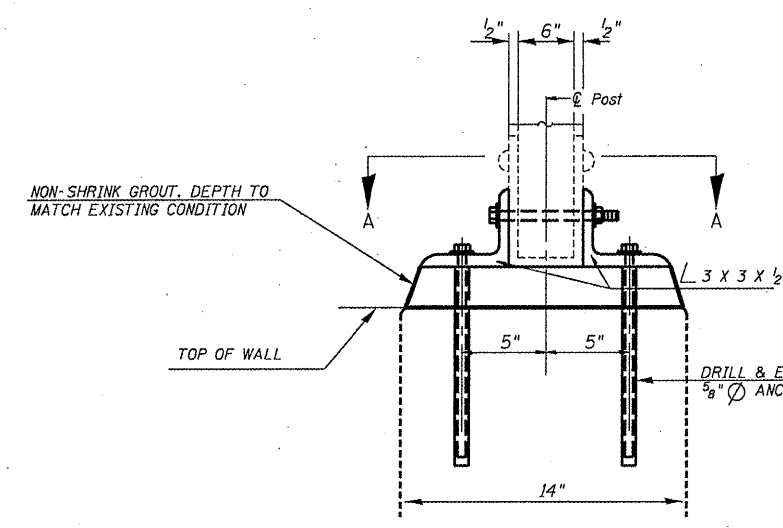
RAILING AT SOUTHWEST RETAINING WALL

All Railing to be salvaged, repaired where shown and reinstalled, with new anchor bolts.

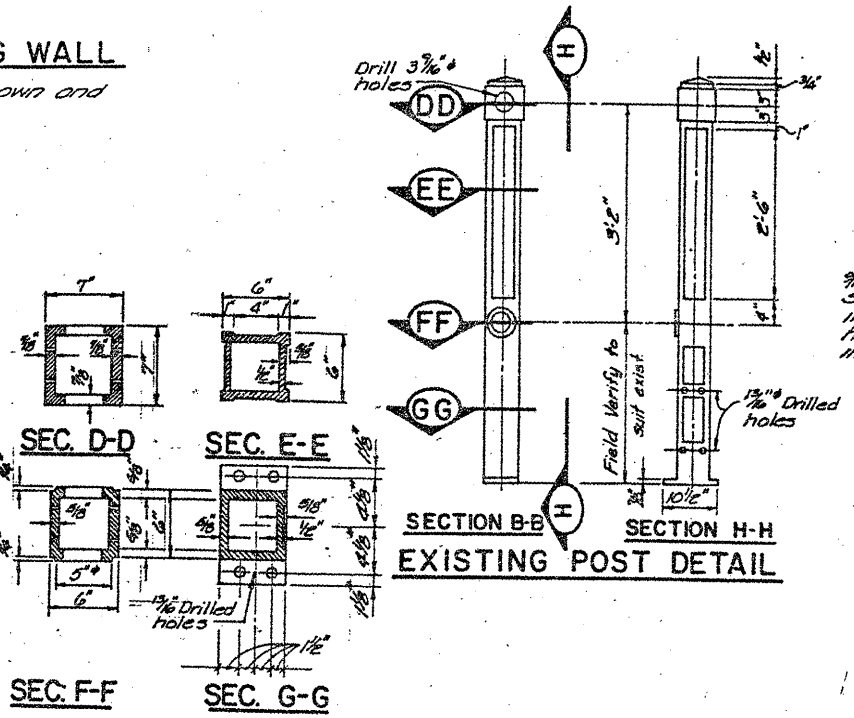
LEGEND



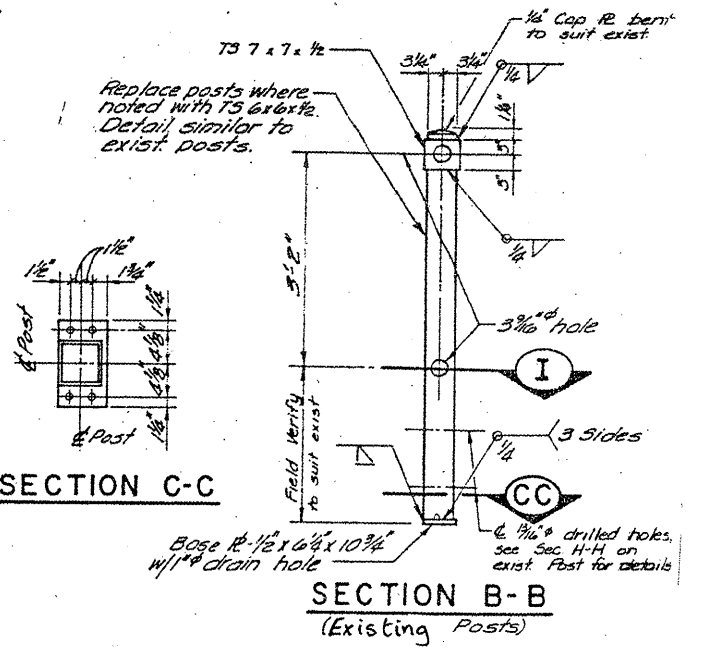
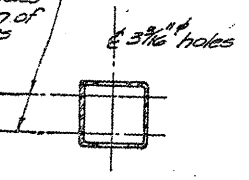
STRUCTURE REPAIR OF CONCRETE ≤ 5"



BASIS OF PAYMENT: DAMAGE HANDRAIL WILL BE REPLACED AND PAID FOR AT THE UNIT PRICE OF L SUM FOR HANDRAIL REPAIRS.



SECTION I-I



NOTE:
RAILING SHALL BE REMOVED, REPAIRED AND REINSTALLED WITH NEW ANCHOR BOLTS, CLEANED AND PAINTED. ANCHOR BOLTS SHALL CONFORM TO ASTM A307.
4- 5/8" O.H.S. THREADED ANCHOR RODS WITH HEX NUTS AND LOCK WASHERS, DRILLED AND SET ACCORDING TO ARTICLE 509.06 OF THE STANDARD SPECIFICATIONS. EMBEDMENT INTO THE EXISTING CONCRETE, NOT INCLUDING THE THICKNESS OF ANY LEVELING GROUT, SHALL BE ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. ANCHOR BOLTS SHALL BE STAINLESS STEEL OR GALVANIZED.

NOTES:

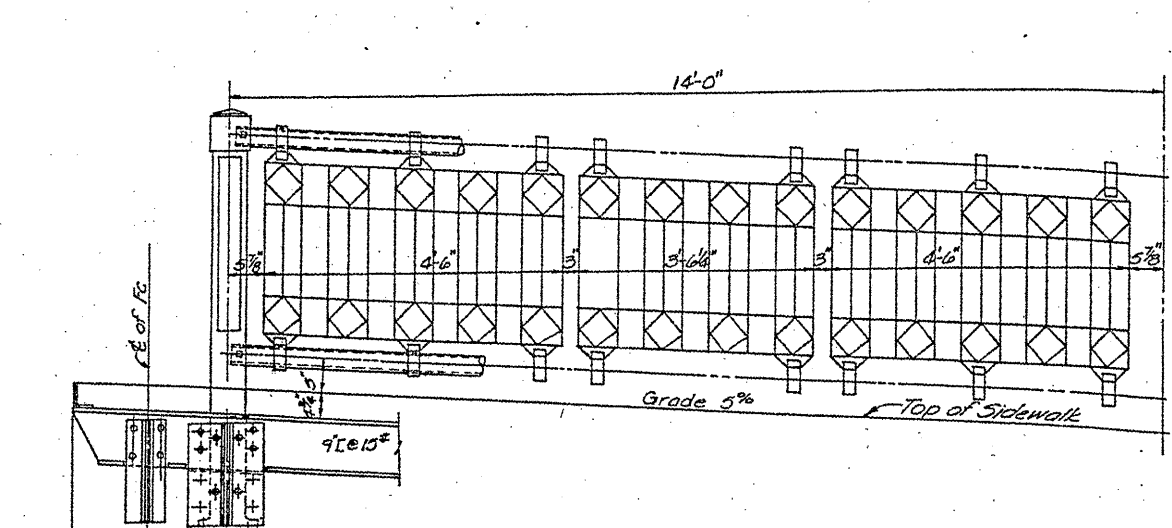
1. SEE DRAWING NO. G-2 FOR GENERAL NOTES.
2. DAMAGED RAILING SHALL BE REPAIRED BY REPLACEMENT OF BENT OR MISSING MEMBERS WITH NEW MEMBERS FABRICATED TO MATCH THE ORIGINAL CONSTRUCTION.
3. EXISTING POSTS ARE CAST IRON. EXISTING PANELS AND CAST FITTINGS ARE MALLEABLE IRON. EXISTING PIPE IS WROUGHT IRON.
4. REPLACEMENTS AND REPAIRS SHALL BE OF STRUCTURAL STEEL CONFORMING TO AASHTO M183, EXCEPT STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B.
5. REPLACE POSTS WHERE NOTED. DETAILS AND GEOMETRY SHALL BE SIMILAR TO EXISTING POSTS.
6. REPLACE OR REPAIR PANELS WHERE NOTED. DETAILS AND GEOMETRY SHALL BE SIMILAR TO EXISTING PANELS. NEW PANELS SHALL BE FABRICATED FROM 1/2" X 1" BAR STOCK.
7. REPLACE PIPE RAILS WHERE NOTED. DETAILS AND GEOMETRY SHALL BE SIMILAR TO EXISTING PIPE RAILS.
8. ORNAMENTAL RAILING SHALL BE CLEANED AND PAINTED.

| | | | |
|---|--------------------|----------------|-----------|
| FILE NAME = | USER NAME = midyjo | DESIGNED - RTD | REVISED - |
| as:\pw\work\pwr\dot\midyjo\20110831\0111504 | sht-plen.dgn | DRAWN - | REVISED - |
| PLOT SCALE = 1/8" = 1'-0" | CHECKED - | REVISOR - | REVISED - |
| PLOT DATE = 6/28/2011 | DATE - | REVISOR - | REVISED - |

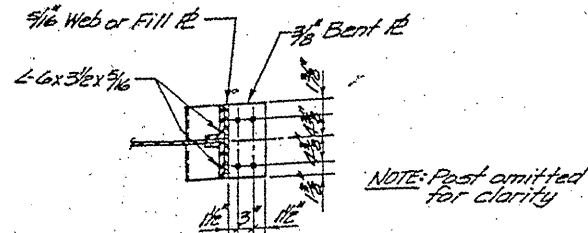
| | |
|-------------------------------------|--|
| STATE OF ILLINOIS | |
| DEPARTMENT OF TRANSPORTATION | |

| | |
|---|--------------------------------------|
| RUBY STREET OVER DES PLAINES RIVER | |
| HANDRAIL REPAIRS | |
| SCALE: | SHEET NO. 2 OF 3 SHEETS STA. TO STA. |

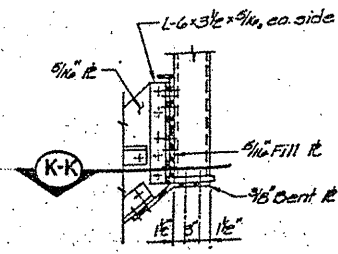
| | | | | |
|---------------------------|-----------------|-------------|-----------------|--------------|
| F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 64 |
| CONTRACT NO. 62714 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



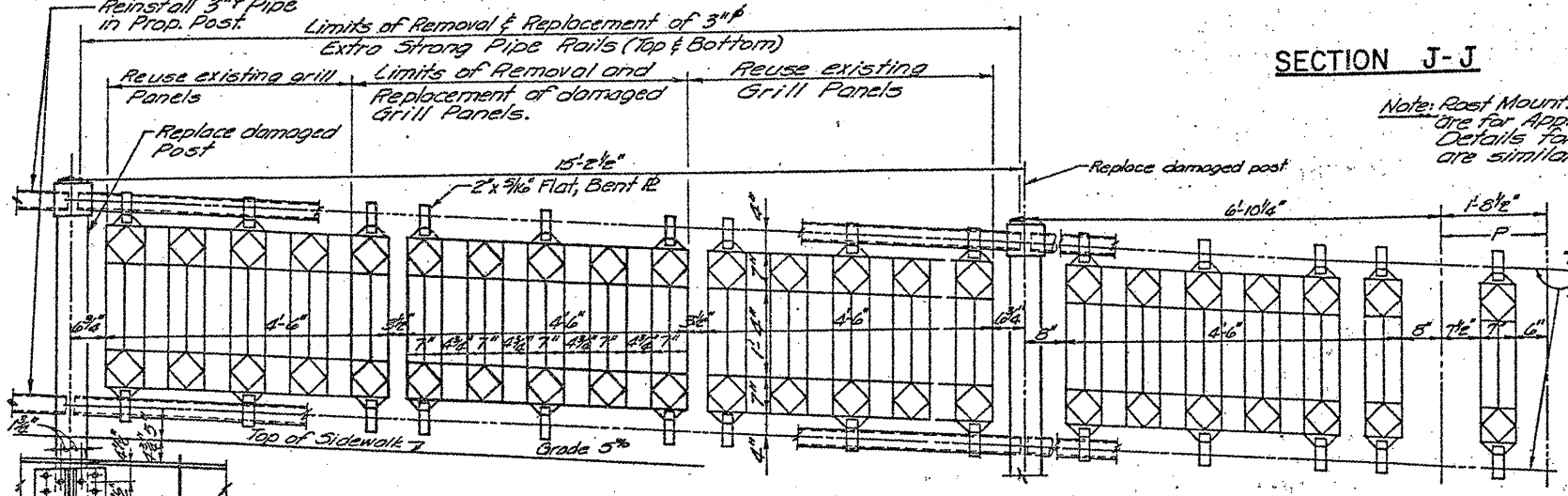
RAILING FOR PANEL C-D ON APPROACH SPAN
(For Information Only: No Repairs)



SECTION K-K



SECTION J-J



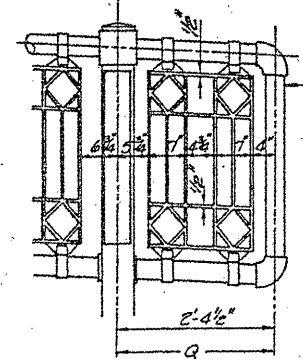
SOUTH RAILING FOR PANEL FG ON APPROACH SPAN
(Panels DE, EF & GH, North and South and Panel FG, North are similar, with no repairs.)

NORTH RAILING FOR PANEL G-H ON APPROACH SPAN
(No repairs)

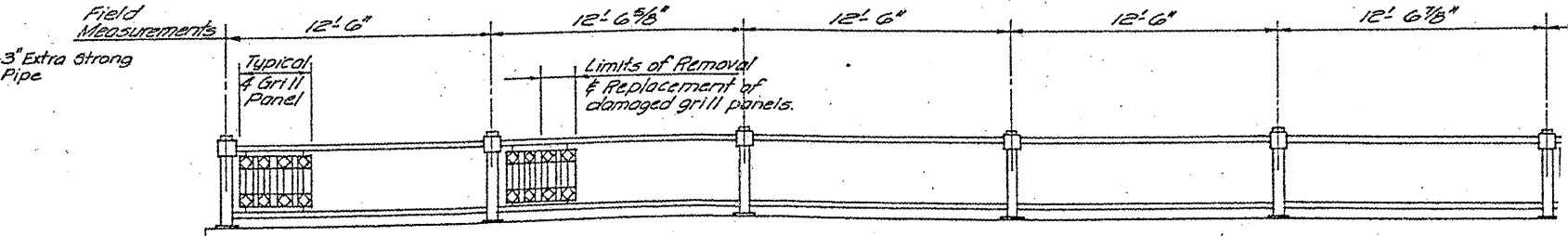
Note: Post Mounting Details shown are for Approach Span. Details for Bascule Spans are similar.

For general details of "P" see (Details @ Q)

FOR INFORMATION ONLY



DETAILS AT Q
(For Information Only: No repairs)

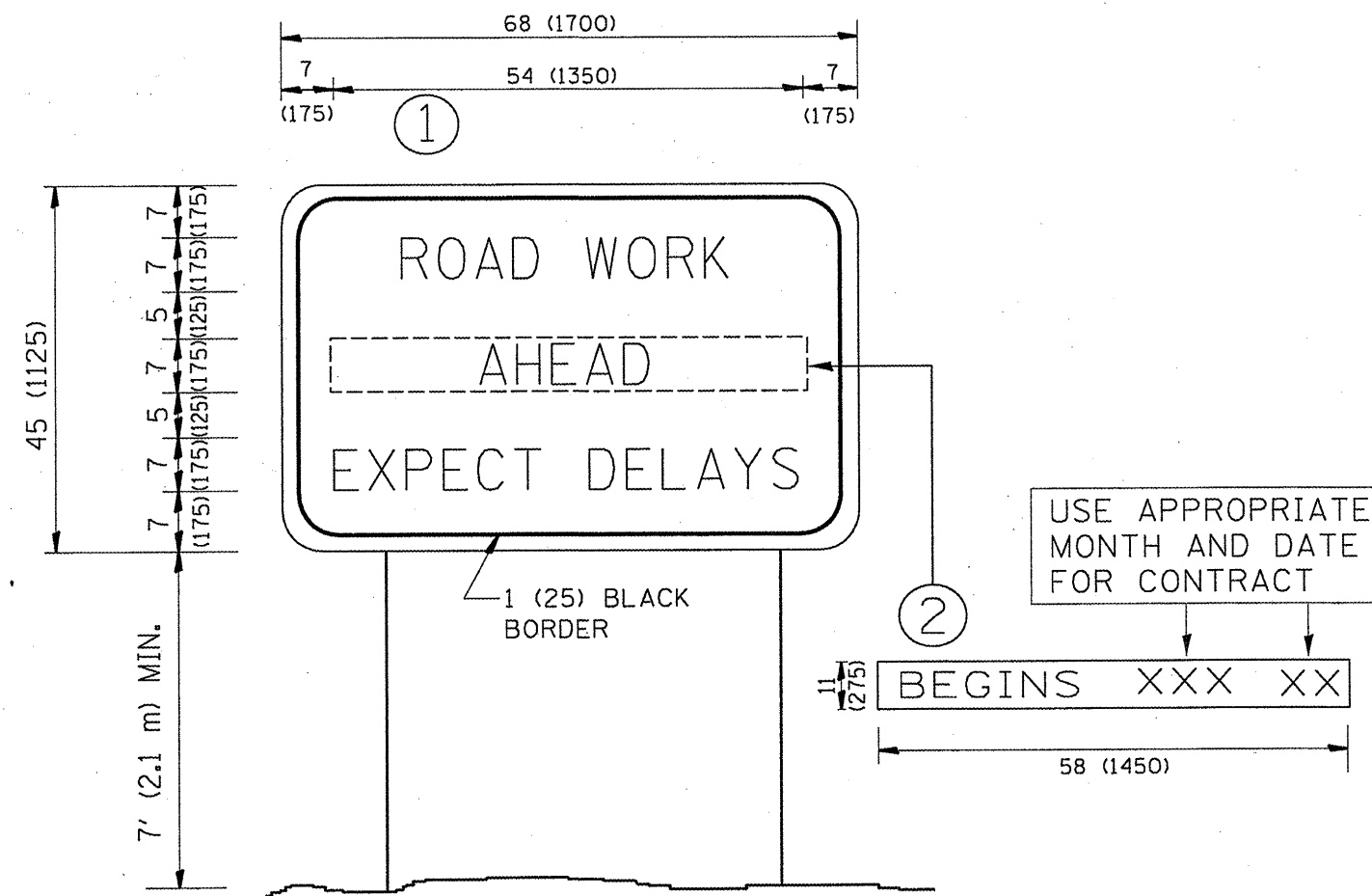


Retaining wall ornamental railing details are similar to bridge spans, ornamental railing details. (No shop drawings are available.)

RAILING AT SOUTHWEST RETAINING WALL

All Railing to be salvaged, repaired where shown and reinstalled, with new anchor bolts.

| | | | | | | | | | | | | |
|--|------------------------------|----------------|-----------|---|--|-----------------|-------------------------|-------------|-----------------|---------------------------|--|--|
| FILE NAME = | USER NAME = mdyjo | DESIGNED - RTB | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER HANDRAIL REPAIRS | F.A.P. RTE. 112 | SECTION M-BDR-1 | COUNTY WILL | TOTAL SHEETS 66 | SHEET NO. 65 | | |
| al:\pw\work\pawdot\mdyjo\0148931\0111504 | sht-plan.dgn | DRAWN - | REVISED - | | | SCALE: | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT | | |
| | PLOT SCALE = 1/8" = 1' / IN. | CHECKED - | REVISED - | | | | | | | CONTRACT NO. 62714 | | |
| | PLOT DATE = 5/27/2011 | DATE - | REVISED - | | | | | | | | | |



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.

| | | | |
|--|--------------------|-----------------------|---------------------------------|
| FILE NAME = | USER NAME = mdyjja | DESIGNED - RTB | REVISED - R. MIRS 09-15-97 |
| os:\pvt\work\pawdot\mdyjja\0148931\DistStd.dgn | | DRAWN - | REVISED - R. MIRS 12-11-97 |
| PLOT SCALE = 1/8" = 1'-0" | | CHECKED - | REVISED - T. RAMMACHER 02-02-99 |
| PLOT DATE = 6/30/2011 | | DATE - | REVISED - C. JUCIUS 01-31-07 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | |
|-----------------------------------|-------------|-------------|--------------|
| ARTERIAL ROAD INFORMATION SIGN | | | |
| SCALE: NONE | SHEET NO. 1 | OF 1 SHEETS | STA. TO STA. |

| | | | | |
|---|---------|--------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 112 | M-BDR-1 | WILL | 66 | 66 |
| TC-22 | | | CONTRACT NO. 62714 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |