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STATE STANDARDS

- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 701321-17 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAP ROUTE 17 (US 52 /IL 64)
SECTION D2 BDR 2019-1
PROJECT
TYPE of IMPROVEMENT: BRIDGE REHAB
CARROLL COUNTY

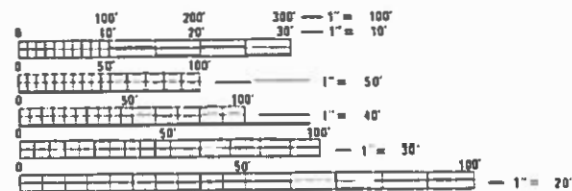
C-92-002-19

| F.A.P. SHEET | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|---------------|---------|--------------------|-----------|
| 17 | D2 BDR 2019-1 | CARROLL | 20 | 1 |
| | | NEWS | CONTRACT NO. 64N25 | |

D.92-071-18

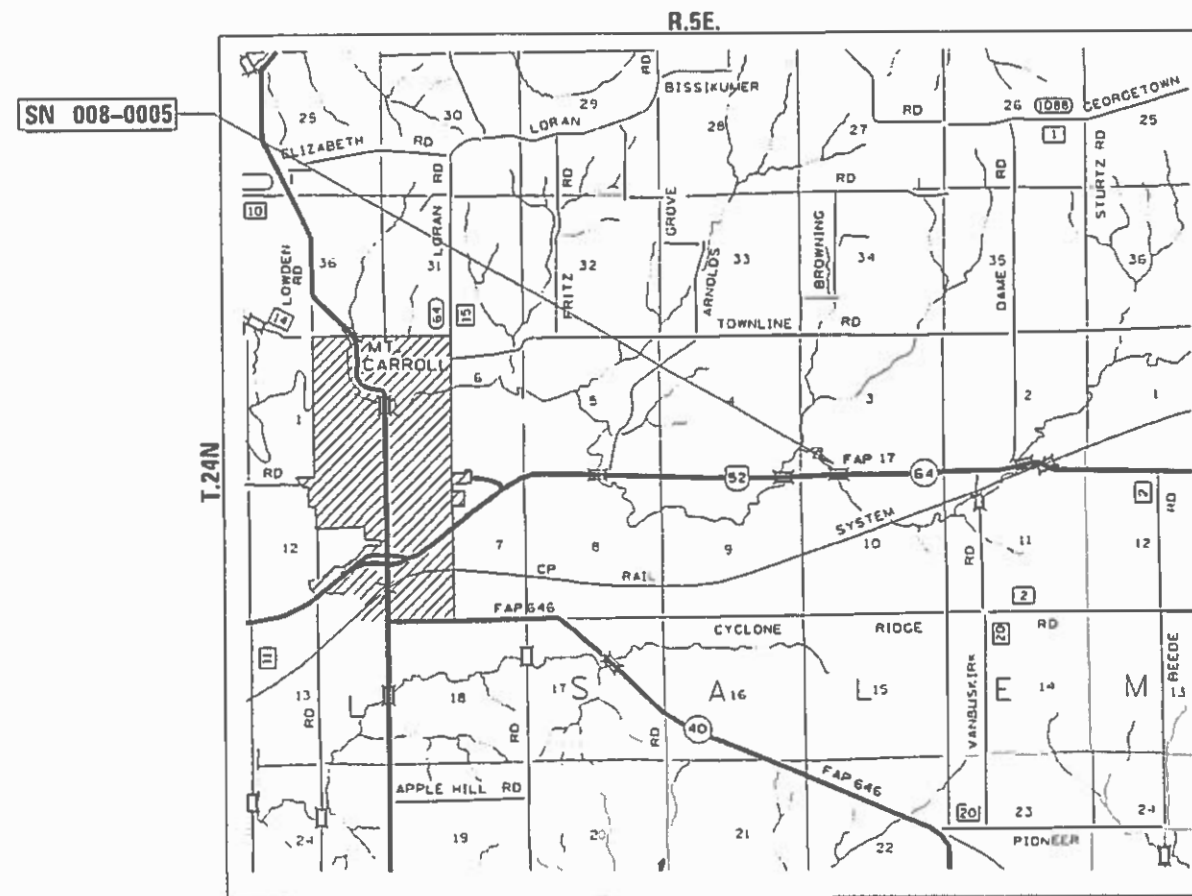


CARROLL COUNTY-SALEM TOWNSHIP- SECTION 3.10



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

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



PROJECT ENGINEER: KYLE ROLLINS (815) 284-5417
PROJECT MANAGER: MAHMOUD ETEMADI (815) 284-5393

CONTRACT NO. 64N25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 12-3-2018 *K. Marchek* REGIONAL ENGINEER

Feb 19 2019 *E.A. Etk* ENGINEER OF DESIGN AND ENVIRONMENT

Paul C. Ch... 2019 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

SUMMARY OF QUANTITIES

0047
100%
State Funds

| CODE NUMBER | ITEM | UNIT | TOTAL QUANTITY |
|-------------|---|--------|----------------|
| 50300300 | PROTECTIVE COAT | SQ YD | 369 |
| 40600275 | BITUMINOUS MATERIALS (PRIME COAT) | POUNDS | 320.0 |
| 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL- BUTT JOINT | SQ YD | 712.0 |
| 40600990 | TEMPORARY RAMP | SQ YD | 36.0 |
| 40603310 | HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 | TON | 60.0 |
| 50102400 | CONCRETE REMOVAL | CU YD | 9.6 |
| 50300100 | FLOOR DRAINS | EACH | 8 |
| 50300255 | CONCRETE SUPERSTRUCTURE | CU YD | 10.5 |
| 50300260 | BRIDGE DECK GROOVING | SQ YD | 340 |
| 50800515 | BAR SPLICERS | EACH | 24 |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 1290 |
| 52000110 | PREFORMED JOINT STRIP SEAL | FOOT | 76.5 |
| 67100100 | MOBILIZATION | L SUM | 1 |
| 70100405 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 | EACH | 2 |
| 70106500 | TEMPORARY BRIDGE TRAFFIC SIGNALS | EACH | 1 |
| 70106700 | TEMPORARY RUMBLE STRIPS | EACH | 6 |
| 70107004 | PAVEMENT MARKING BLACKOUT TAPE, 4" | FOOT | 652.0 |
| 70300150 | SHORT TERM PAVEMENT MARKING REMOVAL | SQ FT | 490.0 |
| 70300904 | PAVEMENT MARKING TAPE, TYPE IV 4" | FOOT | 2970.0 |
| 70400100 | TEMPORARY CONCRETE BARRIER | FOOT | 675.0 |
| 70400200 | RELOCATE TEMPORARY CONCRETE BARRIER | FOOT | 675.0 |

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|---|-------------------------------------|------------|-----------|
| FILE NAME = | USER NAME = Rollinks | DESIGNED - | REVISED - |
| pw\11084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 2\Projects\Open Bridge Section\Carroll\008-0005\56 | | | |
| Default | PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED - |
| | PLOT DATE = Dec-03-2018 09:55:13 AM | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------|---------|--------------|-----------|
| 17 | D2 BDR 2019-1 | CARROLL | 20 | 2 |
| CONTRACT NO. 64N25 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

SUMMARY OF QUANTITIES

0047
100%
State Funds

| CODE NUMBER | ITEM | UNIT | TOTAL QUANTITY |
|-------------|--|-------|----------------|
| 70600260 | IMPACT ATTENUATORS, TEMPORARY (FULL REDIRECTIVE, NARROW), TEST LEVEL 3 | EACH | 2 |
| 70600332 | IMPACT ATTENUATORS, RELOCATE (FULL REDIRECTIVE, NARROW), TEST LEVEL 3 | EACH | 2 |
| 78007110 | PERMANENT PAVEMENT MARKING- LINE 4" | FOOT | 815.0 |
| X7030005 | TEMPORARY PAVEMENT MARKING REMOVAL | SQ SF | 980.0 |
| Z0001905 | STRUCTURAL STEEL REPAIR | POUND | 1600 |
| Z0006012 | BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4" | SQ YD | 339.1 |
| Z0012130 | BRIDGE DECK SCARIFICATION 3/4" | SQ YD | 339.1 |
| Z0007101 | CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1 | L SUM | 1 |
| Z0010501 | CLEANING AND PAINTING STEEL BRIDGE NO. 1 | L SUM | 1 |
| Z0016002 | DECK SLAB REPAIR (FULL DEPTH, TYPE II) | SQ YD | 2.0 |
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

| | | | | |
|---------------------------|---------------|---------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 17 | D2 BDR 2019-1 | CARROLL | 20 | 3 |
| | | | CONTRACT NO. 64N25 | |
| ILLINOIS FED. AID PROJECT | | | | |

GENERAL NOTES

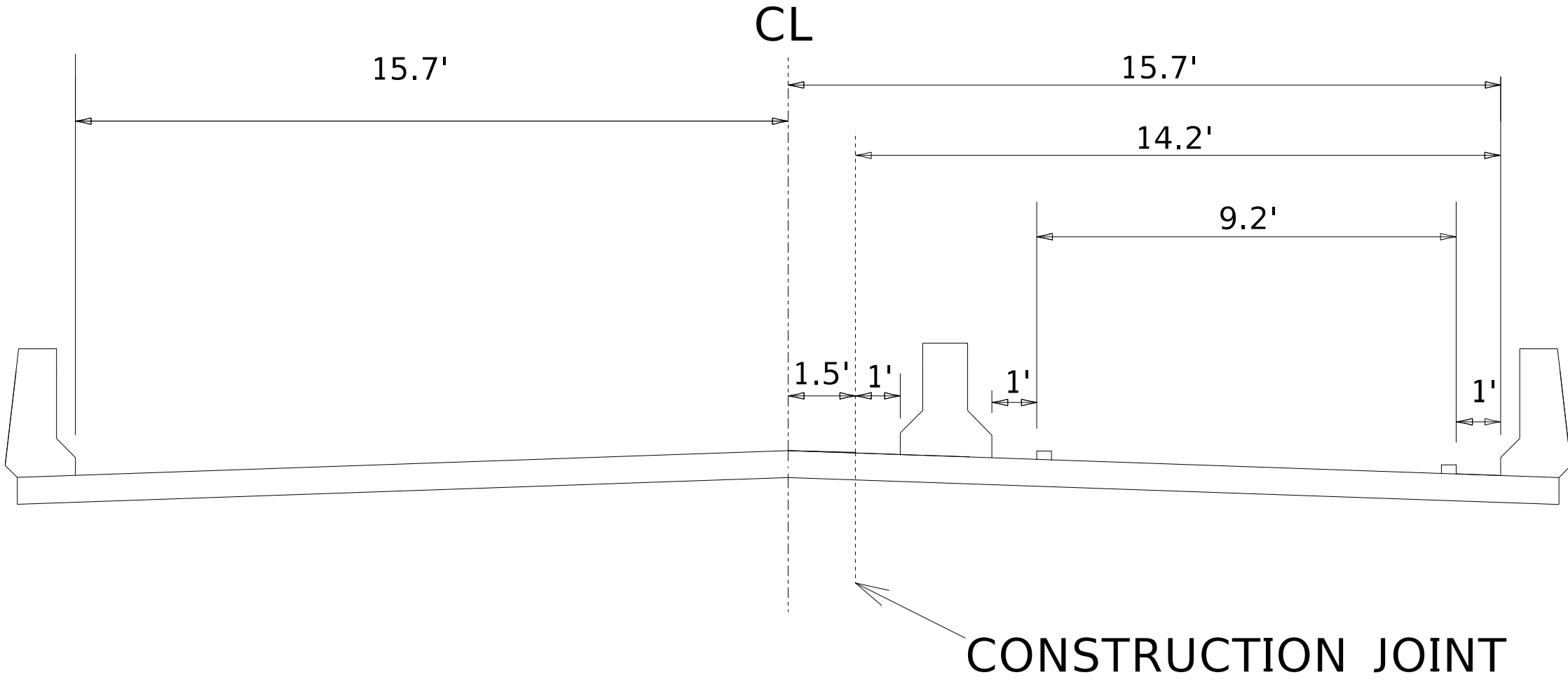
| Location and Mixture Uses(s): | Resurfacing | | | Full Depth Pavement | | | Shoulders | | Protective Layer/LB |
|---|---------------|--------------|--------|---------------------|-----------------|-----------------|-----------|-----------------|---------------------|
| | Surface | Level Binder | Binder | Surface | Top Lift Binder | All Other Lifts | Top Lift | All Lower Lifts | |
| PG: | PG 64-22 | - | - | - | - | - | - | - | - |
| Design Air Voids | 4.0 @ N50 | - | - | - | - | - | - | - | - |
| Mixture Composition (Gradation Mixture) | IL 9.5 | - | - | - | - | - | - | - | - |
| Friction Aggregate | C | - | - | - | - | - | - | - | - |
| 20 Year ESAL | 0.3 | - | - | - | - | - | - | - | - |
| Mix Unit Weight | 112 lbs/sy/in | | | | | | | | |
| Quality Management Program to be Used | QC/QA | | | | | | | | |
| Sublot Tonnage | QC/QA | | | | | | | | |

STREAM PERMITS

January 7, 2016

Title 17, Chapter I, Section [3700.30 b5](#) and Section [3704.30 d5](#) of the IL Administrative Code state that “Routine maintenance and repair of existing structures” are exempt activities for requiring a permit. As such, No IDNR-OWR In-Stream Permits have been procured for this project. None are required provided there is no falling debris, no material placed into the stream, or no in-stream work performed. Any temporary fill in the stream or the compromising of the dike (if applicable) will not be allowed. If the contractor chooses to use an alternate/modified construction method from the aforementioned, they will be responsible for obtaining the proper permits. Absolutely no construction activities will take place without the proper permits being secured. No relief or compensation will be given for any delays, working days charged, or calendar days expired as a result of the re-submittal for the required permits due to the contractor’s alternate/modified construction methods.

STAGE I BARRIER WALL TYPICAL



| | | | |
|--|-------------------------------------|----------------------------------|--------------------------|
| FILE NAME = | USER NAME = Rollinsks | DESIGNED - _____ | REVISED - _____ |
| pw:\IL\084EBIDINTEG.illinois.gov\PIDOT\Documents\DOT Offices\District 2\Projects\Ope | BRWN | ridge-Section\Carroll\008-0005\6 | REVISOR D2-shr-cover.dgn |
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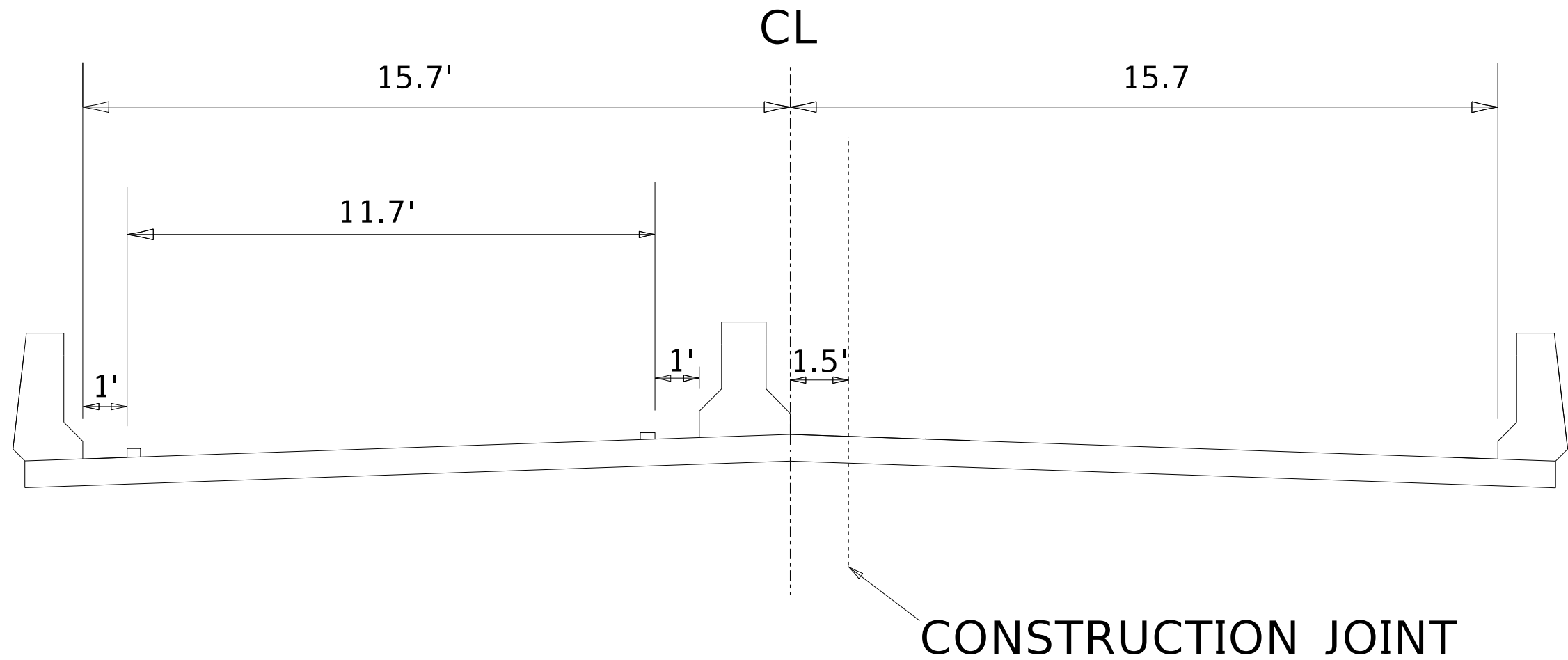
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE I BARRIER WALL TYPICAL

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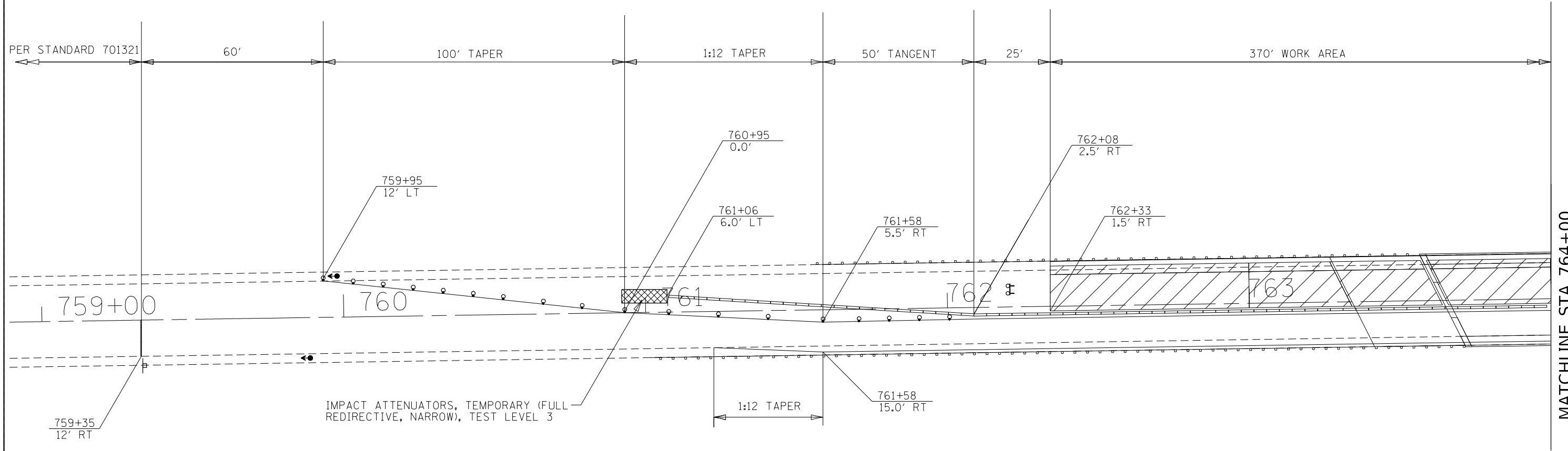
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|--------------------|---------------|---------|---------------------------|-----------|
| 17 | D2 BDR 2019-1 | CARROLL | 20 | 5 |
| CONTRACT NO. 64N25 | | | ILLINOIS FED. AID PROJECT | |

STAGE II BARRIER WALL TYPICAL




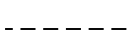




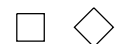





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|--|-------------------------------------|------------------|-----------------|---|---|---------------|---------|--------------------|---------|--------|--------------|-----------|
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| pw:\IL\084EBIDINTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 2\Projects\Open Bridge-Section\Carroll\08-005\BDR\08-005-D2-shr-cover.dgn | DRAWN - _____ | CHECKED - _____ | REVISED - _____ | | 17 | D2 BDR 2019-1 | CARROLL | 20 | 6 | | | |
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| | PLOT DATE = Dec-03-2018 09:57:36 AM | DATE - _____ | REVISED - _____ | | ILLINOIS FED. AID PROJECT | | | | | | | |

TRAFFIC CONTROL PLAN – STAGE I



SYMBOLS

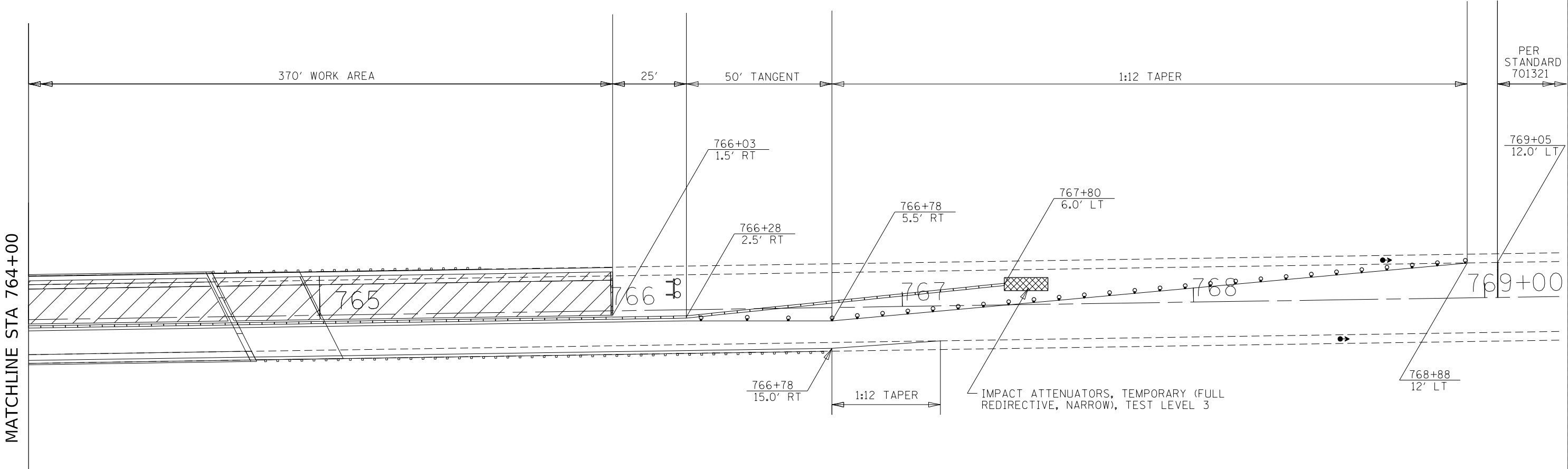
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|---|---|---|---|
|  | Work area |  | Drum with steady burning bi-directional light |
|  | Sign |  | Temporary concrete barrier |
|  | Type III barricade with flashing lights |  | Temporary rumble strip (when specified) |
|  | Traffic signal |  | Double vertical panel (see detail) |
|  | Detector loops |  | Crystal, bidirectional guardrail/barrier wall reflector |
|  | Impact attenuator |  | Drum |

NOTES

1. ReflectORIZED temporary pavement marking shall be placed throughout the taper area along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
2. Barrier wall/guardrail markers at 25' (7.6 m). Markers on right shall be crystal and markers on left shall be amber.
3. Offsets shown are from the centerline pavement marking of the direction of travel.
4. Barrier wall offsets are to the construction side of the barrier wall.
5. Refer to Highway Standard 701321 for additional details not shown.

| | | | | | | | | | | | |
|--|--|--|--|--|--|---|--|---------------------------------------|--|--|--|
| USER NAME = Rollins DESIGNED - _____ DRAWN - _____ PLOT SCALE = 100,0000' / in. CHECKED - _____ PLOT DATE = Dec-03-2018 09:57:59 AM DATE - _____ | | | REVISED - _____ REVISED - _____ REVISED - _____ REVISED - _____ | | | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | | TRAFFIC CONTROL PLAN – STAGE I | | F.A.P. RTE. _____ SECTION _____ COUNTY _____ TOTAL SHEETS _____ SHEET NO. _____ 17 02 BDR 2019-1 CARROLL 20 7 CONTRACT NO. 64N25 | |
| SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____ | | | | | | ILLINOIS FED. AID PROJECT | | | | | |

TRAFFIC CONTROL PLAN – STAGE I



SYMBOLS

- | | |
|---|---|
| <ul style="list-style-type: none"> Work area Sign Type III barricade with flashing lights Traffic signal Detector loops Impact attenuator | <ul style="list-style-type: none"> Drum with steady burning bi-directional light Temporary concrete barrier Temporary rumble strip (when specified) Double vertical panel (see detail) Crystal, bidirectional guardrail/barrier wall reflector Drum |
|---|---|

NOTES

1. ReflectORIZED temporary pavement marking shall be placed throughout the taper along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
2. Barrier wall/guardrail markers at 25' (7.6 m). Markers on right shall be crystal and markers on left shall be amber.
3. Offsets shown are from the centerline pavement marking of the direction of travel.
4. Barrier wall offsets are to the construction side of the barrier wall.
5. Refer to Highway Standard 701321 for additional details not shown.

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| USER NAME = Rollins | DESIGNED - _____ | REVISED - _____ |
| DRAWN - _____ | REVISIONS - _____ | |
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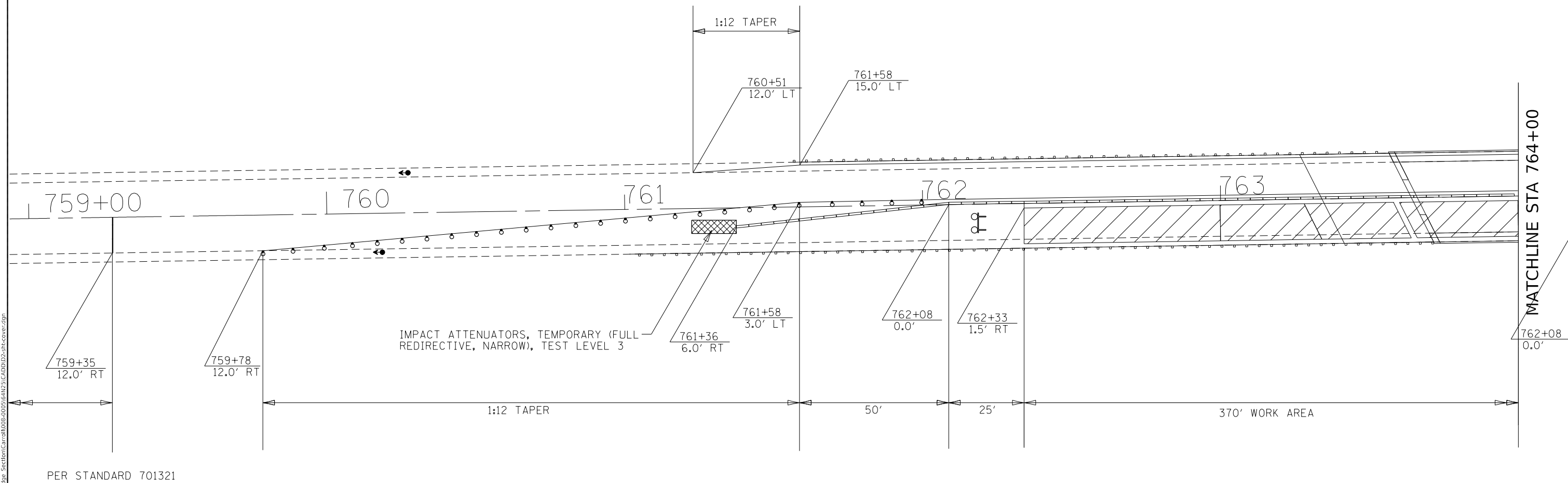
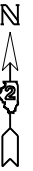
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL PLAN – STAGE I

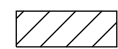



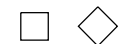


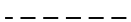




SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------|---------|--------------|-----------|
| 17 | D2 BDR 2019-1 | CARROLL | 20 | 8 |
| CONTRACT NO. 64N25 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

TRAFFIC CONTROL PLAN – STAGE II



SYMBOLS

-  Work area
-  Sign
-  Type III barricade with flashing lights
-  Traffic signal
-  Detector loops
-  Impact attenuator
-  Drum with steady burning bi-directional light
-  Temporary concrete barrier
-  Temporary rumble strip (when specified)
-  Double vertical panel (see detail)
-  Crystal, bidirectional guardrail/barrier wall reflector
-  Drum

NOTES

1. ReflectORIZED temporary pavement marking shall be placed throughout the taper along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
2. Barrier wall/guardrail markers at 25' (7.6 m). Markers on right shall be crystal and markers on left shall be amber.
3. Offsets shown are from the centerline pavement marking of the direction of travel.
4. Barrier wall offsets are to the construction side of the barrier wall.
5. Refer to Highway Standard 701321 for additional details not shown.

MODEL: Default
FILE: \\nas0101\B&E\BID\NTEC\Illinois\gov\FW\DOT\Documents\DOT_Offices\Director\2\Projects\Operations\Barge_Section\Control\008-0005\64N25\CADD\02-sh-cv-ar.dgn

| | | |
|-------------------------------------|------------------|-----------------|
| USER NAME = Rollins | DESIGNED - _____ | REVISED - _____ |
| DRAWN - _____ | CHECKED - _____ | REVISED - _____ |
| PLOT SCALE = 100,0000' / in. | DATE - _____ | REVISED - _____ |
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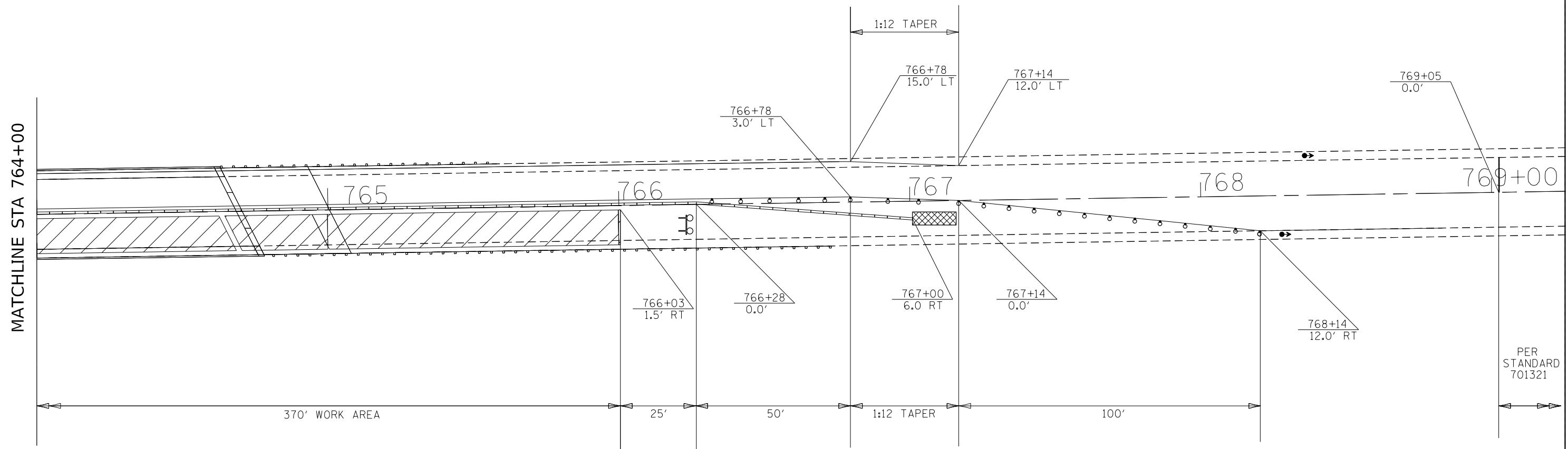
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL PLAN – STAGE II





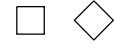


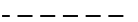




SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 17 | D2 BDR 2019-1 | CARROLL | 20 | 9 |
| CONTRACT NO. 64N25 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

TRAFFIC CONTROL PLAN – STAGE II



SYMBOLS

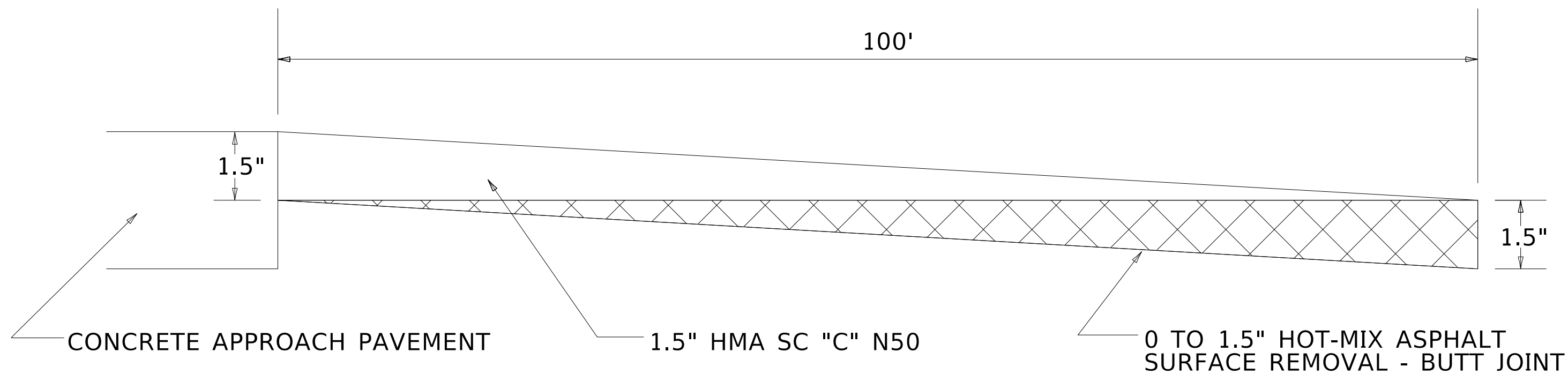
-  Work area
-  Sign
-  Type III barricade with flashing lights
-  Traffic signal
-  Detector loops
-  Impact attenuator
-  Drum with steady burning bi-directional light
-  Temporary concrete barrier
-  Temporary rumble strip (when specified)
-  Double vertical panel (see detail)
-  Crystal, bidirectional guardrail/barrier wall reflector
-  Drum

NOTES

1. ReflectORIZED temporary pavement marking shall be placed throughout the taper along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.
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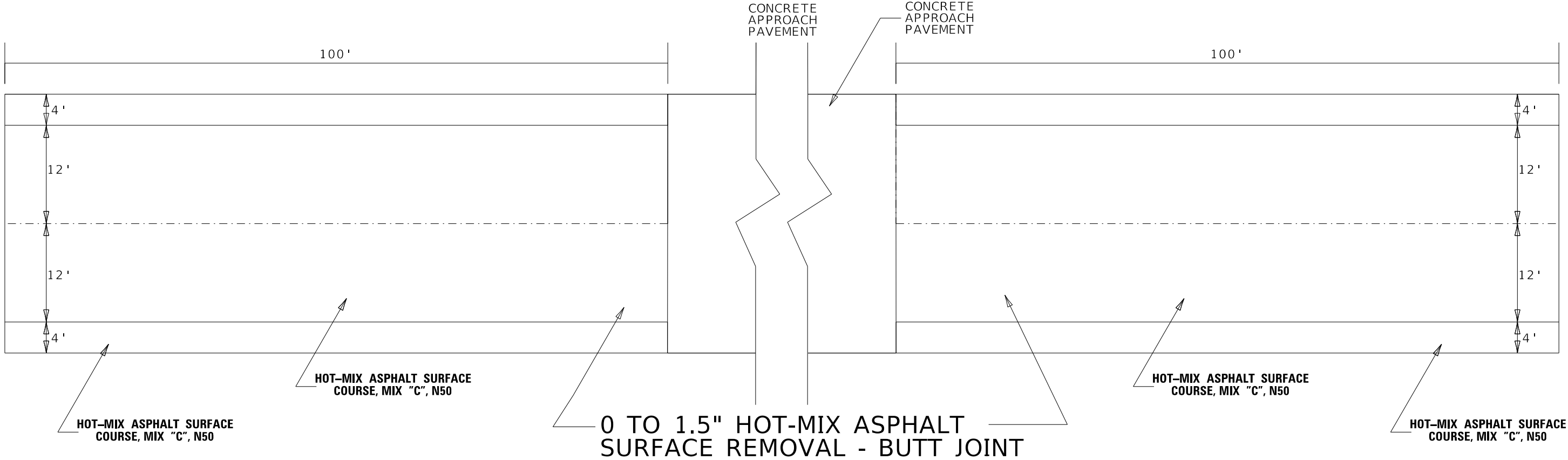
| | | | | | |
|---|--|--|---|--|--|
| USER NAME = Rollins PLOT SCALE = 100,000' / in. PLOT DATE = Dec-03-2018 09:59:39 AM | DESIGNED - _____ DRAWN - _____ CHECKED - _____ DATE - _____ | REVISED - _____ REVISED - _____ REVISED - _____ REVISED - _____ | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TRAFFIC CONTROL PLAN – STAGE II | F.A.P. RTE. _____ SECTION _____ COUNTY _____ TOTAL SHEETS _____ SHEET NO. _____ 17 _____ 02 BDR 2019-1 _____ CARROLL 20 10 CONTRACT NO. 64N25 ILLINOIS FED. AID PROJECT |
| | | | SCALE: _____ | SHEET _____ OF _____ SHEETS | STA. _____ TO STA. _____ |

HOT-MIX ASPHALT APPROACH TAPER DETAIL



| | | | | | | | | | | | |
|-------------------------------------|------------------|-----------------|---|--|-----------------------------|--------------------------|---------|--------------------|-----------------|---------------------------|----|
| USER NAME = Rollinsks | DESIGNED - _____ | REVISED - _____ | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | HOT-MIX ASPHALT APPROACH TAPER DETIAL | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| PLOT SCALE = 100.0000' / 1in. | DRAWN - _____ | REVISED - _____ | | SCALE: _____ | SHEET _____ OF _____ SHEETS | STA. _____ TO STA. _____ | 17 | D2 BDR 2019-1 | CARROLL | 20 | 11 |
| PLOT DATE = Dec-03-2018 10:00:00 AM | CHECKED - _____ | REVISED - _____ | | | | | | CONTRACT NO. 64N25 | | ILLINOIS FED. AID PROJECT | |
| | DATE - _____ | REVISED - _____ | | | | | | | | | |

HOT-MIX ASPHALT APPROACH TAPER



| | | | | | | | | | | |
|-------------------------------------|------------------|-----------------|---|---|--|--------------------|---------------|---------------------------|--------------|-----------|
| USER NAME = Rollinsks | DESIGNED - _____ | REVISED - _____ | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | HOT-MIX ASPHALT APPROACH TAPER DETAIL | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| PLOT SCALE = 100.0000' / in. | DRAWN - _____ | REVISED - _____ | | | | 17 | D2 BDR 2019-1 | CARROLL | 20 | 12 |
| PLOT DATE = Dec-03-2018 10:00:28 AM | CHECKED - _____ | REVISED - _____ | | SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____ | | CONTRACT NO. 64N25 | | ILLINOIS FED. AID PROJECT | | |
| | DATE - _____ | REVISED - _____ | | | | | | | | |

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

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 at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

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

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

Fasteners shall be high strength bolts. Bolts 3/4"Ø, open holes 1 1/16"Ø, unless otherwise noted.

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

Existing structural steel that will be in contact with new structural steel shall be cleaned and pointed prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". Areas to be cleaned and painted shall consist of all beam ends, end diaphragms and steel components of the steel bearings at the abutments. Beam end painting shall extend 5 feet from the ends of the beams longitudinally. Also included shall be the exterior surface and the bottom of the bottom flange of fascia beams for the entire length of the structure. This surface preparation shall be accomplished according to the requirements of Near-White Metal Blast Cleaning SSPC-SP 10. The paint system shall be applied as specified for System 1 0Z/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Blue, Munsell No. 10B 3/6

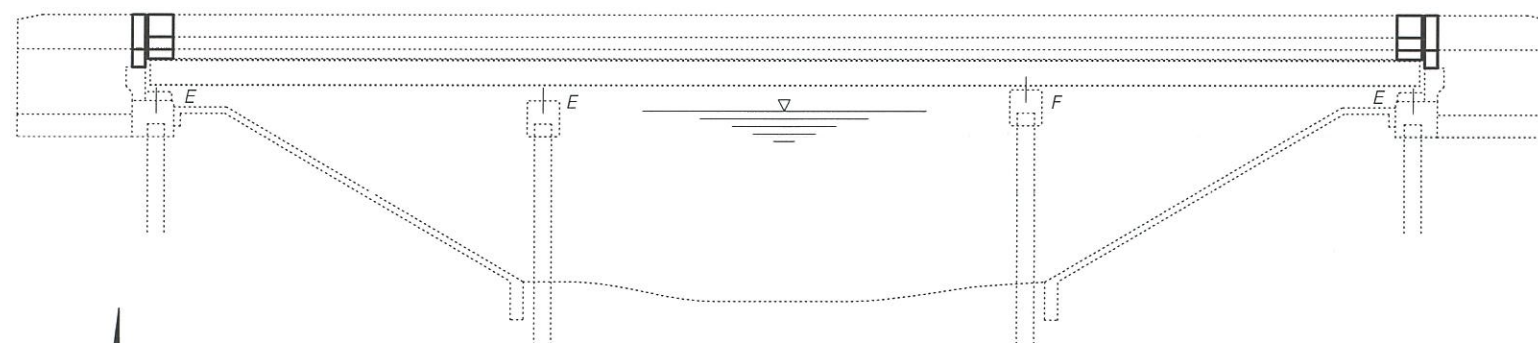
Containment and disposal as specified shall follow the special provision for "Containment and Disposal of Lead Point Cleaning Residue". The use of two air monitors will be required to monitor abrasive blasting operations.

The painting contractor shall be SSPC-QP 1 and SSPC-QP 2 certified for this project and shall maintain certification throughout the duration of the project.

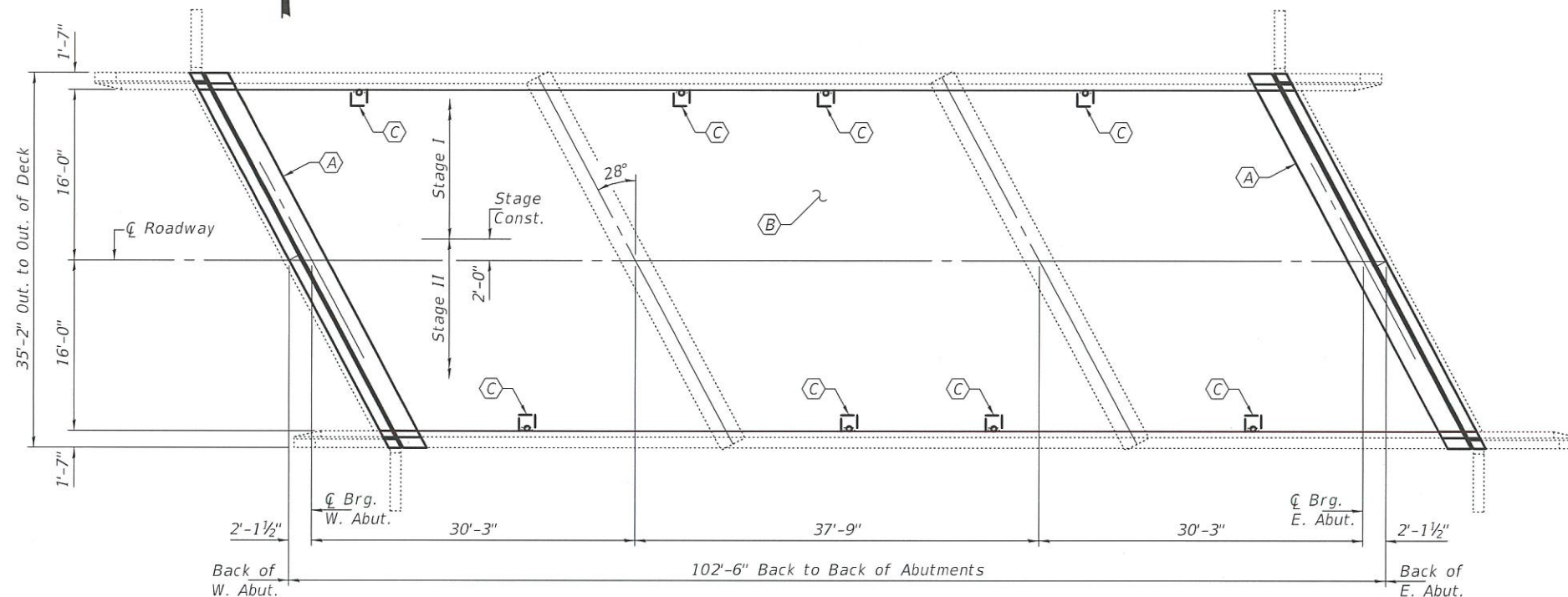
Care shall be taken not to damage rubber bearing or joint components during the blasting and cleaning operations. Any damage to these components shall be repaired at the contractor's expense.

Cleaning and painting of beam ends shall be performed after the concrete removal at the joints has been completed and prior to the installation of any forms for the placement of the new concrete at those locations.

Synthetic fibers shall be added to the Bridge Deck Latex Concrete Overlay. See Special Provisions.



ELEVATION



PLAN

- (A) - Remove & Replace existing Expansion Joint
- (B) - Scarify Bridge Deck 3/4" and install 2 1/4" Latex Modified Concrete Overlay.
- (C) - Remove existing floor drains and install new 6"Ø Floor Drains.

TOTAL BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|---|---------|----------|
| Concrete Removal | Cu. Yd. | 9.6 |
| Concrete Superstructure | Cu. Yd. | 10.5 |
| Reinforcement Bars, Epoxy Coated | Pound | 1290 |
| Bar Splicers | Each | 24 |
| Bridge Deck Scarification, 3/4" | Sq. Yd. | 339.1 |
| Bridge Deck Latex Concrete Overlay, 2 1/4" | Sq. Yd. | 339.1 |
| Preformed Joint Strip Seal | Foot | 76.5 |
| * Protective Coat | Sq. Yd. | 369 |
| Structural Steel Repair | Pound | 1600 |
| Floor Drain | Each | 8 |
| Deck Slab Repair (Full Depth, Type I) | Sq. Yd. | 2.0 |
| Bridge Deck Grooving | Sq. Yd. | 340 |
| Cleaning and Painting Steel Bridge, No. 1 | L.S. | 1 |
| Containment and Disposal of Lead Paint Cleaning Residues, No. 1 | L.S. | 1 |

* New concrete and concrete overlay surfaces only.



Expires: November 30, 2020

DESIGNED - *[Signature]*
 CHECKED - *[Signature]*
 DRAWN - Steffen
 CHECKED - *[Signature]*

EXAMINED - *[Signature]*
 PASSED - *[Signature]*

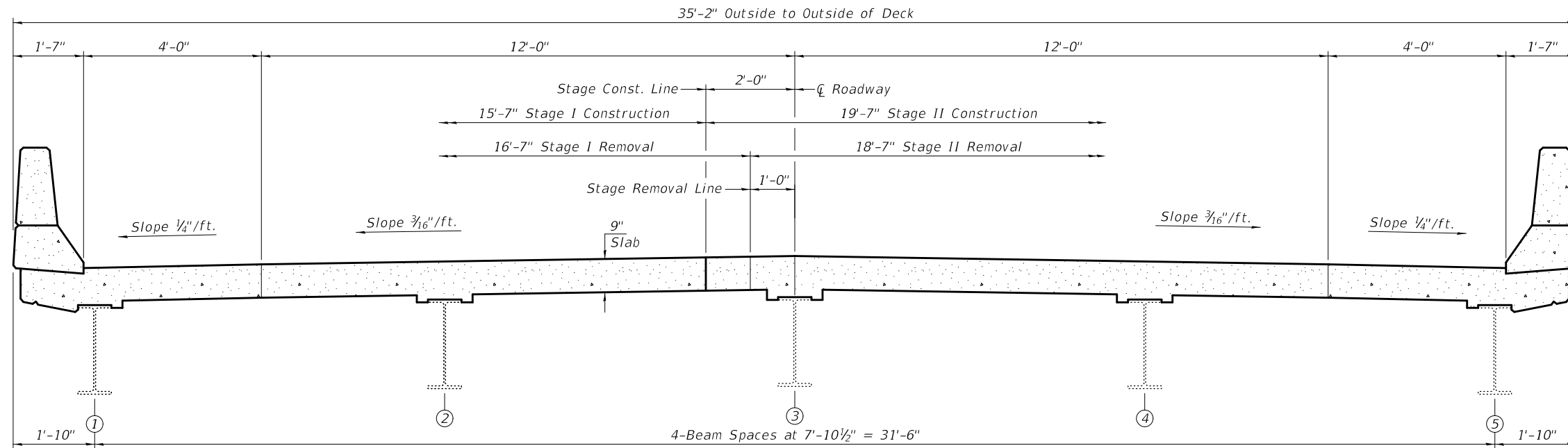
DATE - JANUARY 29, 2019
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

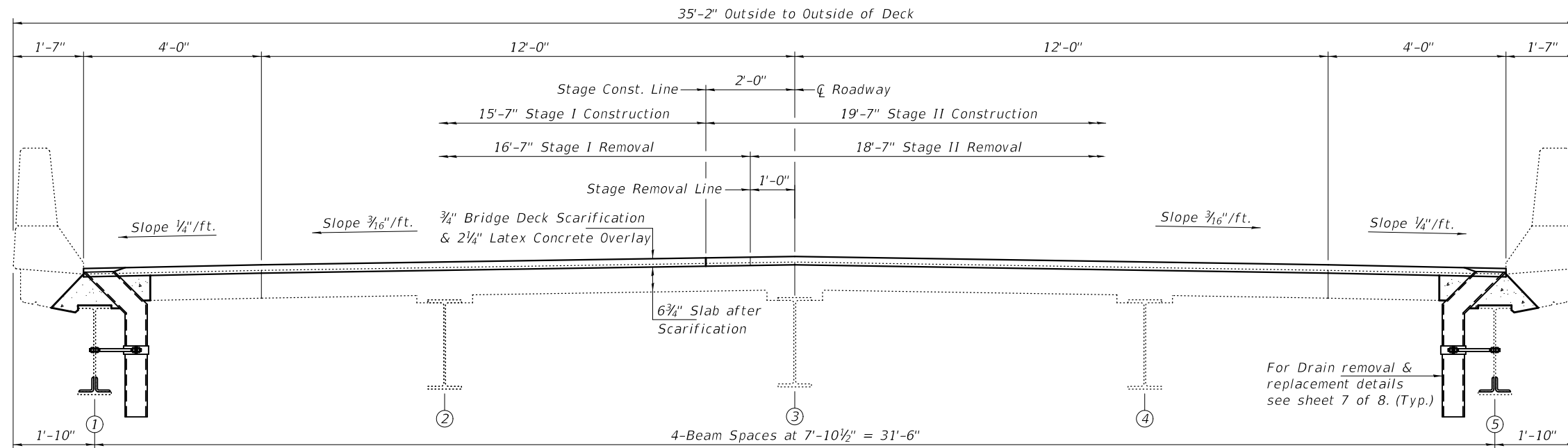
GENERAL PLAN AND ELEVATION
 FAP 17 (IL 64 & US 52) OVER STRADDLE CREEK
 SN 008-0005

SHEET NO. 1 OF 8 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------------|---------|---------------------------|-----------|
| 17 | D2 BDR 2019-1 | CARROLL | 20 | 13 |
| CONTRACT NO. 64N25 | | | ILLINOIS FED. AID PROJECT | |



CROSS SECTION AT ABUTMENTS
(Looking East)



CROSS SECTION AT MID-SPANS
(Looking East)

DESIGNED - JSB
CHECKED - CDK
DRAWN - Steffen
CHECKED - JSB CDK

EXAMINED
PASSED

Timothy A. Daulton
ENGINEER OF STRUCTURAL SERVICES

Carl Ringer
ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 29, 2019

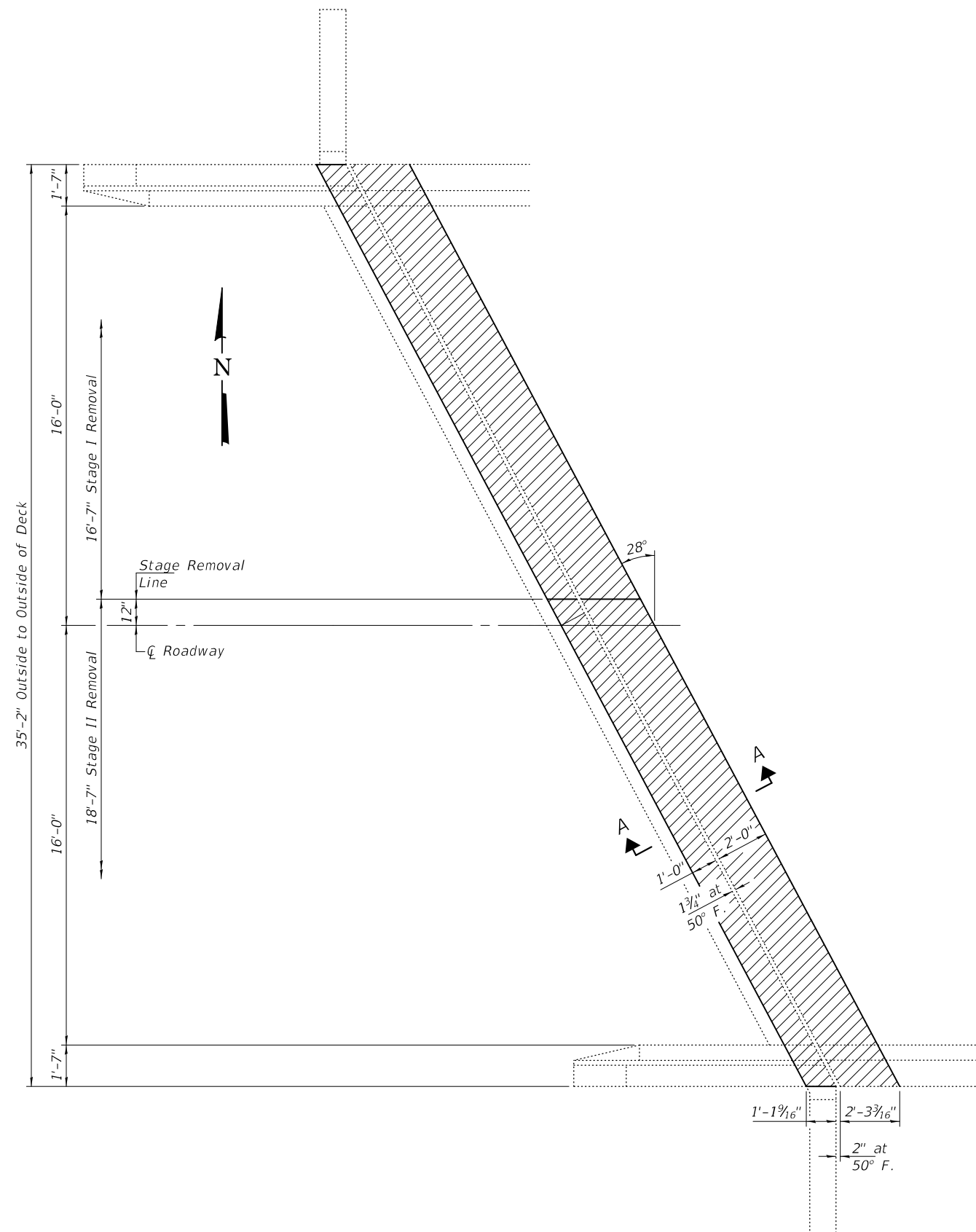
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS & STAGING DETAILS
SN 008-0005

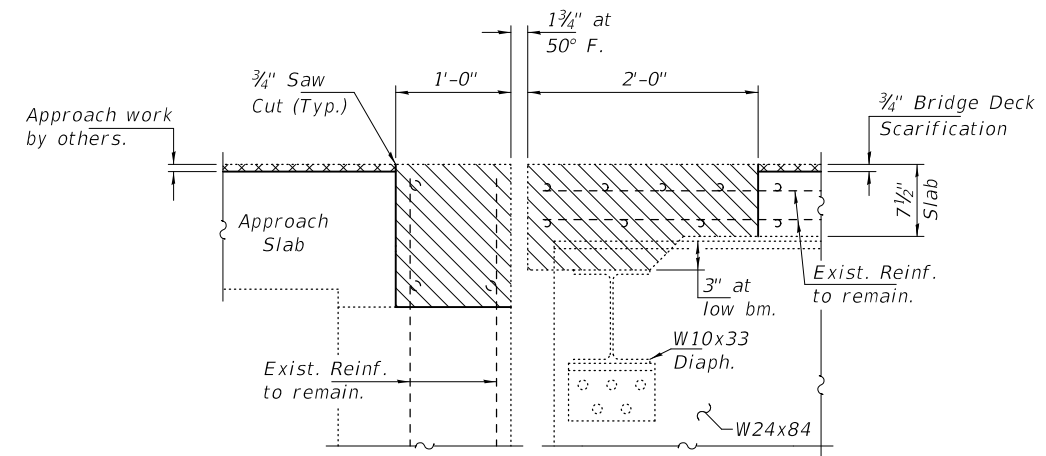
SHEET NO. 2 OF 8 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------|---------|--------------|-----------|
| 17 | D2 BDR 2019-1 | CARROLL | 20 | 14 |
| CONTRACT NO. 64N25 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



CONCRETE REMOVAL DETAILS

West Abutment shown, East Abutment similar by rotation.



SECTION A-A
(Dims. at Rt. L's)

Notes:
Hatched areas indicate Concrete Removal.
Cross Hatched areas indicated Bridge Deck Scarification.

BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|------------------|---------|----------|
| Concrete Removal | Cu. Yd. | 9.6 |

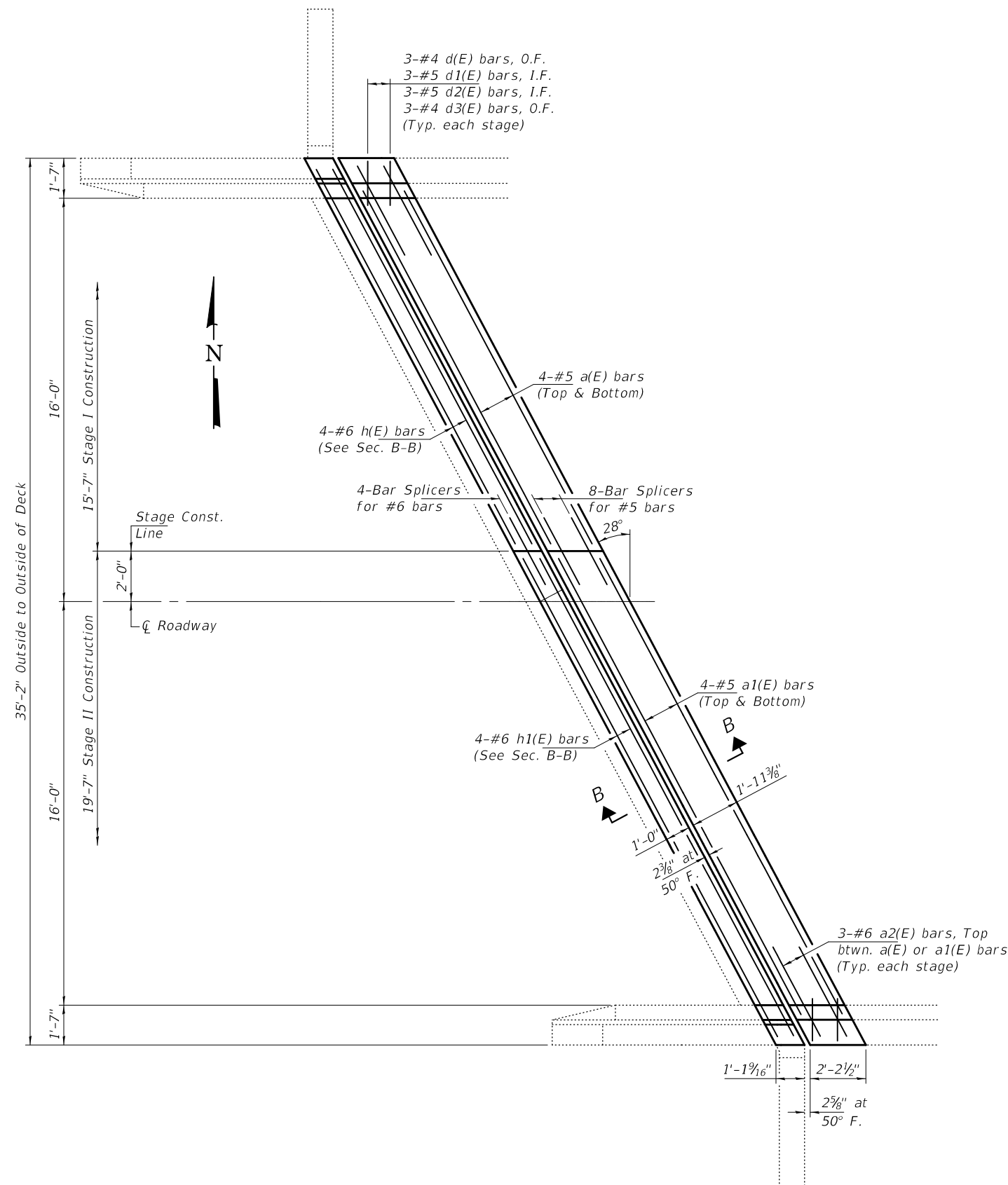
| | | |
|-------------------|--|-------------------------|
| DESIGNED - JSB | EXAMINED - <i>Timothy A. Doolittle</i> | DATE - JANUARY 29, 2019 |
| CHECKED - CDK | ENGINEER OF STRUCTURAL SERVICES | |
| DRAWN - Steffen | PASSED - <i>Carl Ruyter</i> | REVISED - |
| CHECKED - JSB CDK | ENGINEER OF BRIDGES AND STRUCTURES | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

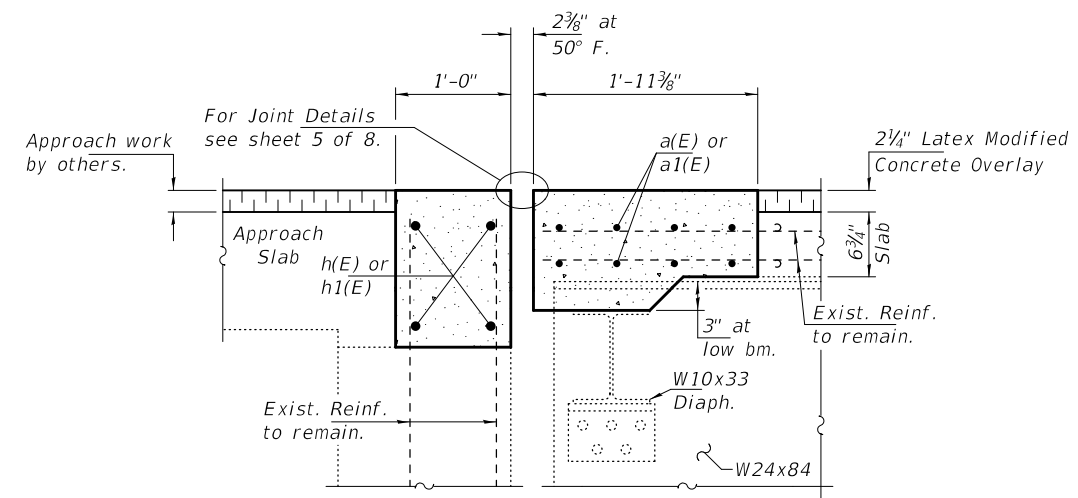
JOINT REMOVAL DETAILS
SN 008-0005

SHEET NO. 3 OF 8 SHEETS

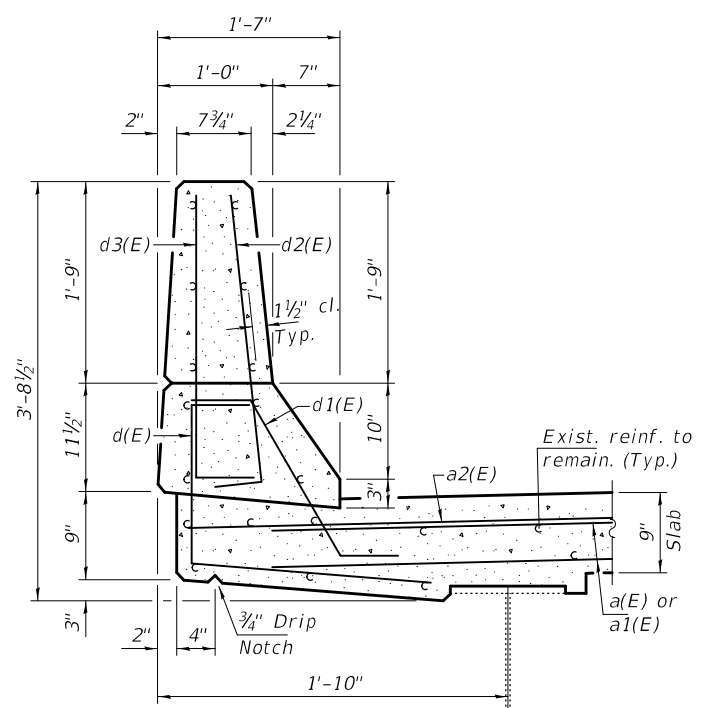
| | | | | |
|---------------------------|-----------------------|----------------|-----------------|--------------|
| F.A.P. RTE. 17 | SECTION D2 BDR 2019-1 | COUNTY CARROLL | TOTAL SHEETS 20 | SHEET NO. 15 |
| CONTRACT NO. 64N25 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



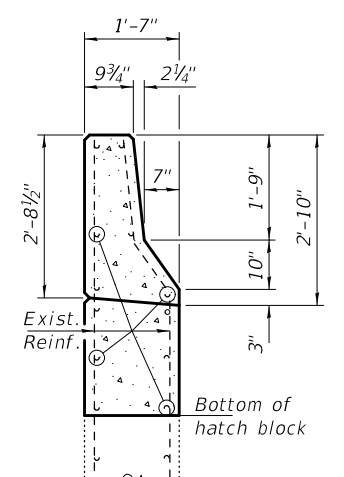
CONCRETE REPLACEMENT DETAILS
West Abutment shown, East Abutment similar by rotation.



SECTION B-B
(Dims. at Rt. L's)



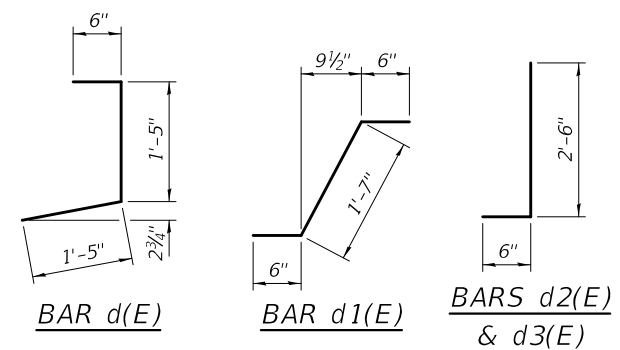
SECTION THRU BRIDGE PARAPET



TYPICAL SECTION THRU APPROACH PARAPET

BILL OF MATERIAL BOTH ABUTMENTS

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|------|---------|-------|
| a(E) | 16 | #5 | 16'-6" | — |
| a1(E) | 16 | #5 | 21'-0" | — |
| a2(E) | 12 | #6 | 4'-0" | — |
| d(E) | 12 | #4 | 3'-4" | J |
| d1(E) | 12 | #5 | 2'-7" | J |
| d2(E) | 12 | #5 | 3'-0" | J |
| d3(E) | 12 | #4 | 3'-0" | J |
| h(E) | 8 | #6 | 17'-4" | — |
| h1(E) | 8 | #6 | 21'-10" | — |
| Concrete Superstructure | | | Cu. Yd. | 10.5 |
| Bar Splicers | | | Each | 24 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 1290 |

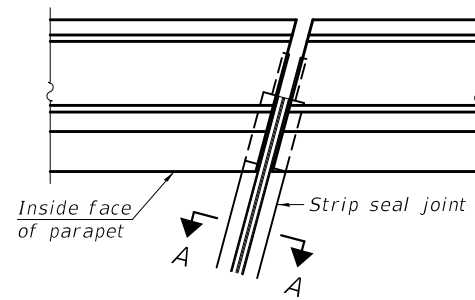


| | | |
|-------------------|--------------------------------------|-------------------------|
| DESIGNED - JSB | EXAMINED - <i>Timothy A. Daulton</i> | DATE - JANUARY 29, 2019 |
| CHECKED - CDK | ENGINEER OF STRUCTURAL SERVICES | |
| DRAWN - Steffen | PASSED - <i>Carl R. Meyer</i> | REVISER - |
| CHECKED - JSB CDK | ENGINEER OF BRIDGES AND STRUCTURES | REVISER - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

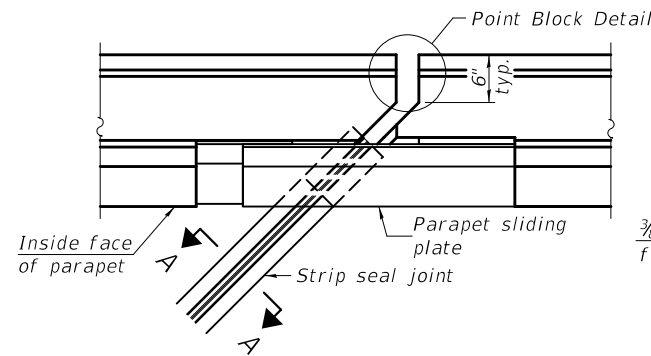
JOINT REPLACEMENT DETAILS
SN 008-0005
SHEET NO. 4 OF 8 SHEETS

| | | | | |
|---------------------------|---------------|---------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 17 | D2 BDR 2019-1 | CARROLL | 20 | 16 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 64N25 | |

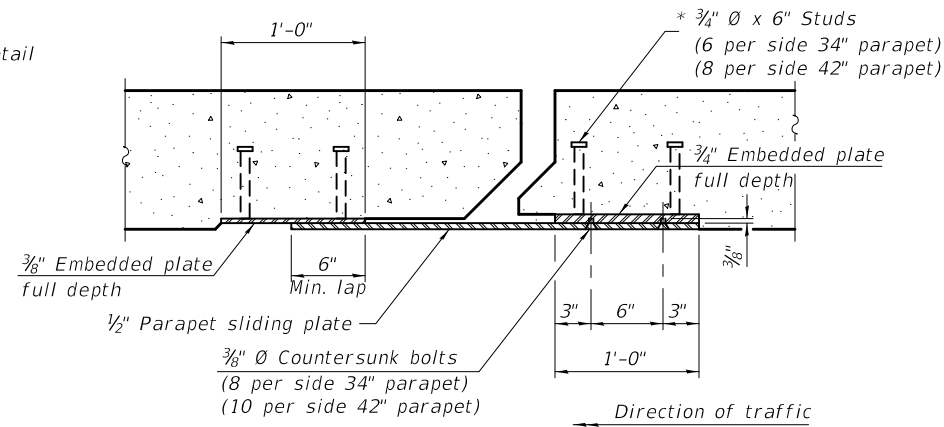


FOR SKEWS $\leq 30^\circ$

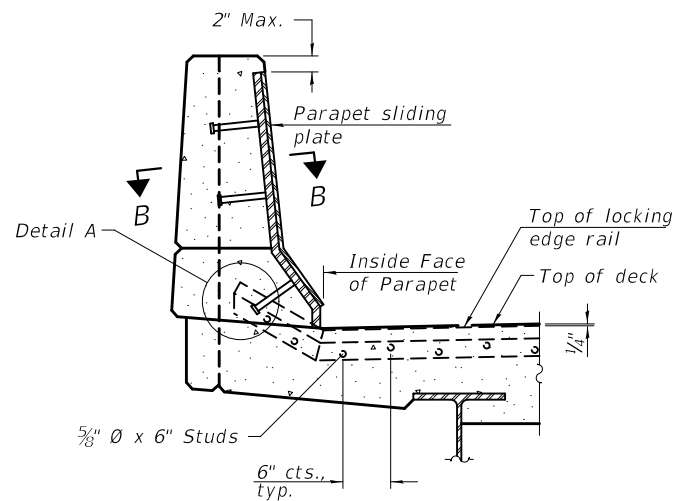
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

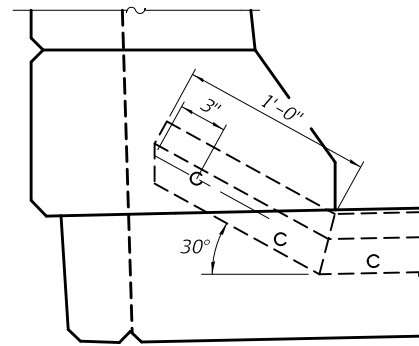


SECTION B-B

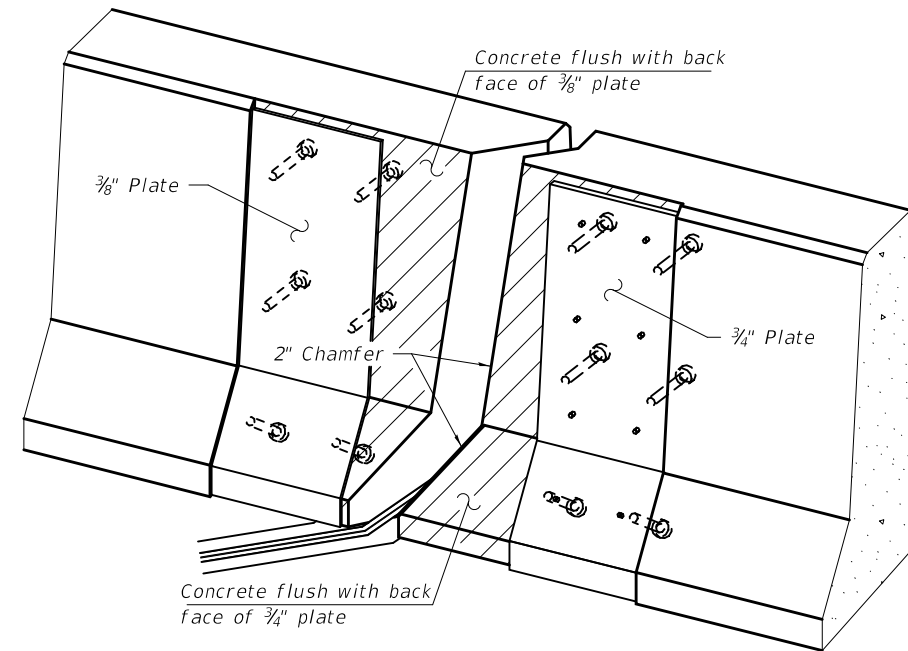


ELEVATION AT PARAPET

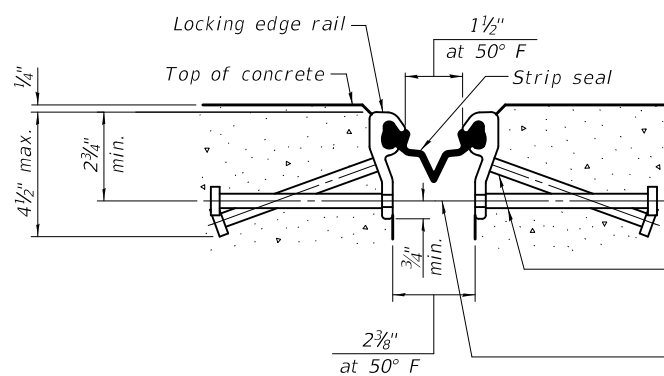
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)



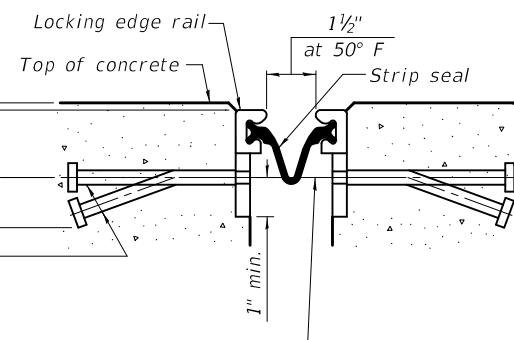
SHOWING ROLLED RAIL JOINT

* $5/8"$ ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

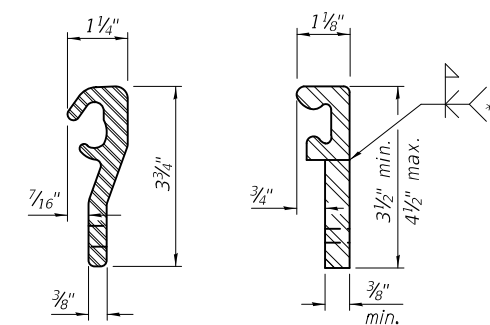
$3/8"$ ϕ threaded rods in $7/16"$ ϕ holes at $\pm 4"-0"$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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



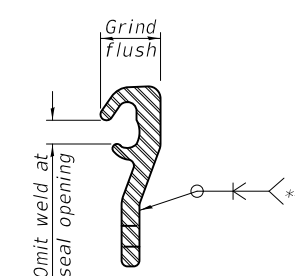
SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

| Item | Unit | Total |
|----------------------------|------|-------|
| Preformed Joint Strip Seal | Foot | 76.5 |

EJ-SS

8-11-17

| | |
|-------------------|----------|
| DESIGNED - JSB | EXAMINED |
| CHECKED - CDK | PASSED |
| DRAWN - Steffen | |
| CHECKED - JSB CDK | |

| | |
|---|-------------------------|
| TIMOTHY A. DAULTON ENGINEER OF STRUCTURAL SERVICES | DATE - JANUARY 29, 2019 |
| CARL RINGER ENGINEER OF BRIDGES AND STRUCTURES | REVISED - REVISED - |

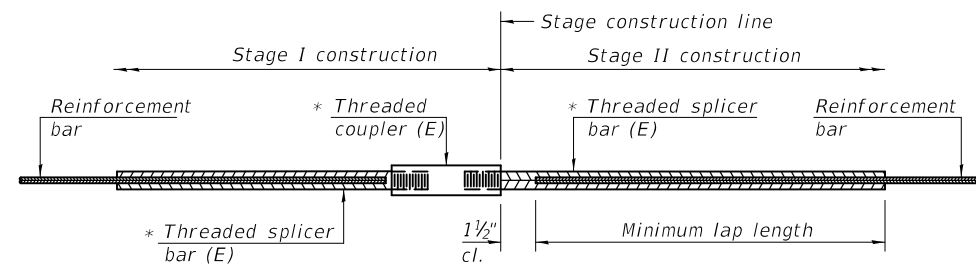
| |
|-------------------------|
| DATE - JANUARY 29, 2019 |
| REVISED - |
| REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL DETAILS
SN 008-0005

SHEET NO. 5 OF 8 SHEETS

| | | | | |
|------------------|---------------|---------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 17 | D2 BDR 2019-1 | CARROLL | 20 | 17 |
| ILLINOIS | | | CONTRACT NO. 64N25 | |
| FED. AID PROJECT | | | | |

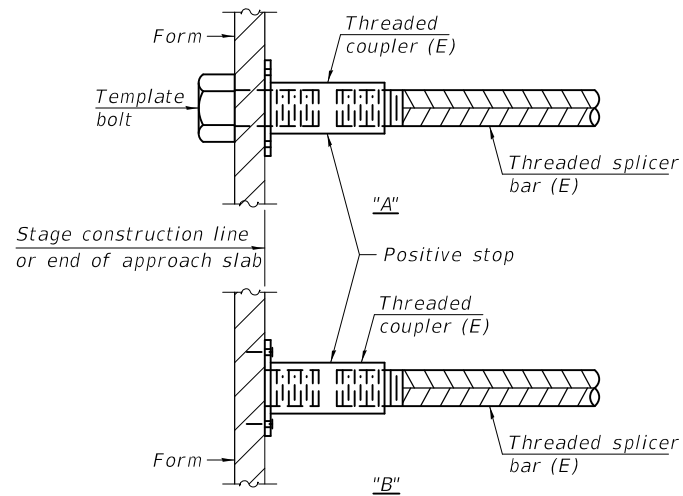


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

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

| Location | Bar size | No. assemblies required | Minimum lap length |
|----------|----------|-------------------------|--------------------|
| Deck | #5 | 16 | 3'-6" |
| Abutment | #6 | 8 | 4'-0" |
| | | | |
| | | | |
| | | | |

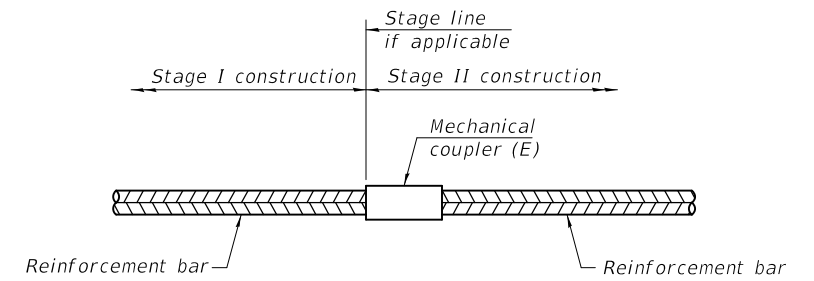


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

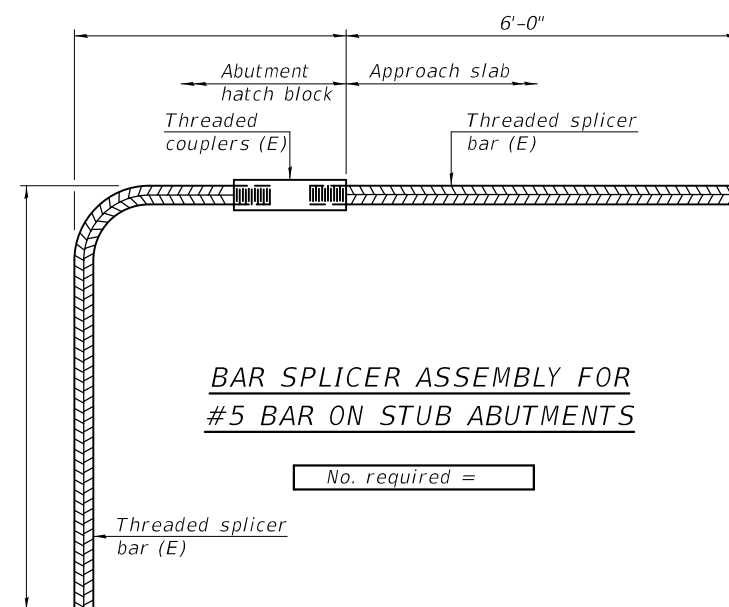
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

| Location | Bar size | No. assemblies required |
|----------|----------|-------------------------|
| | | |
| | | |
| | | |
| | | |



NOTES

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

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

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

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

BSD-1

2-17-2017

DESIGNED - JSB
 CHECKED - CDK
 DRAWN - Steffen
 CHECKED - JSB CDK

EXAMINED
 PASSED

Timothy A. [Signature]
 ENGINEER OF STRUCTURAL SERVICES
 [Signature]
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 29, 2019

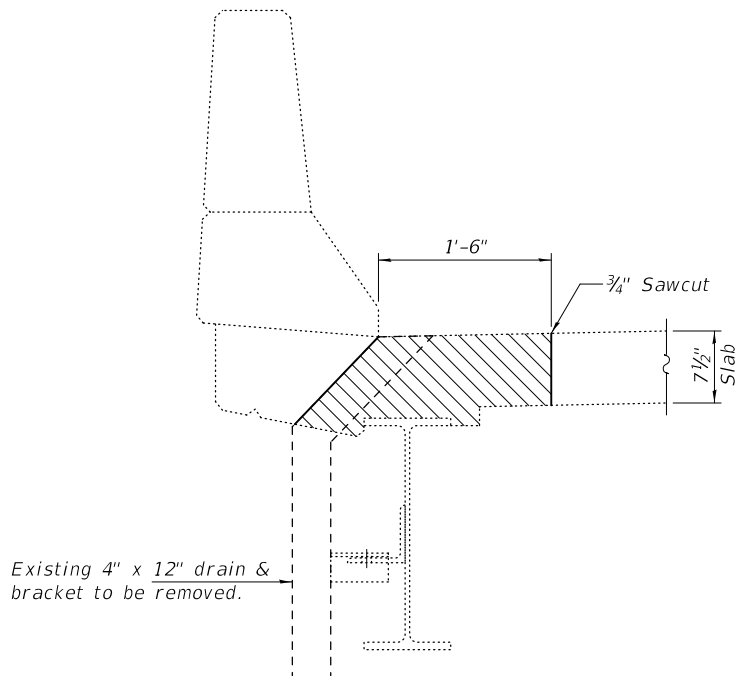
REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

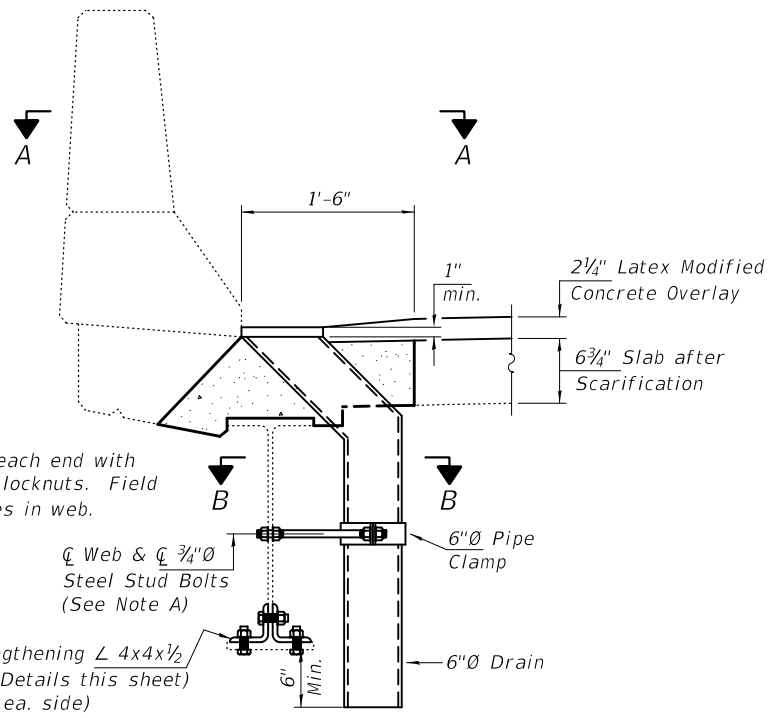
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 SN 008-0005

SHEET NO. 6 OF 8 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------|---------------|---------|--------------------|-----------|
| 17 | D2 BDR 2019-1 | CARROLL | 20 | 18 |
| ILLINOIS | | | CONTRACT NO. 64N25 | |
| FED. AID PROJECT | | | | |



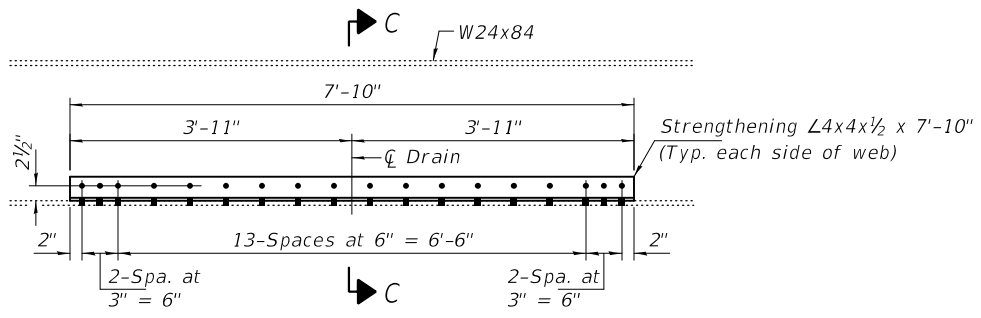
DRAIN REMOVAL DETAIL
(8-Locations)
Hatched areas indicate Deck Slab Repair (Full Depth, Type I).



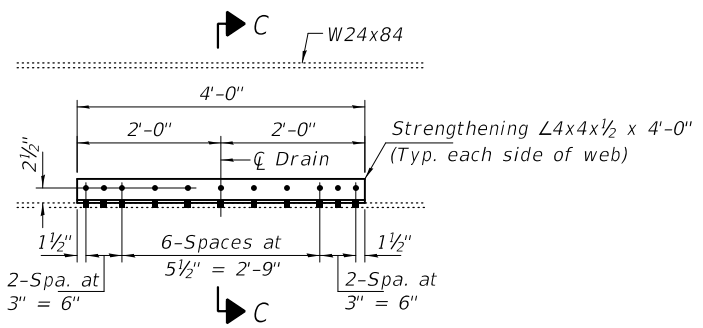
Note A:
Threaded 6" each end with 2 washers and locknuts. Field drill 1 3/16" Ø holes in web.

PROPOSED DRAIN DETAIL
(8-Locations)

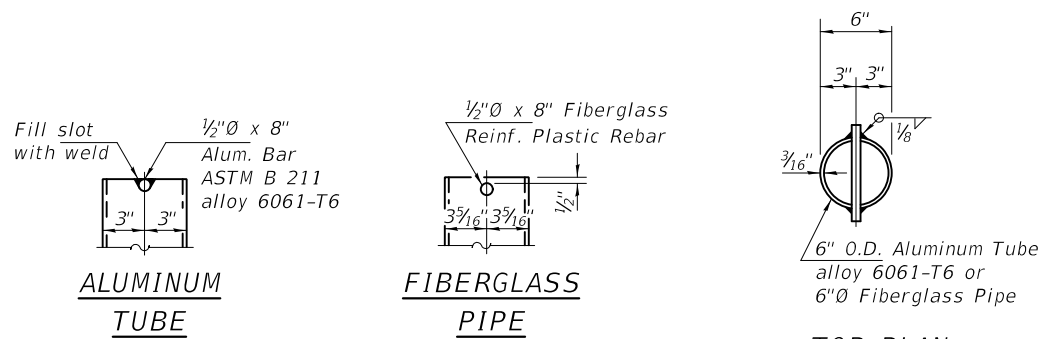
Notes:
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum
The exterior surfaces of the floor drains shall be painted according to Article 506 with the finish coat as specified. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coatings' Spec. SSPC-SP1 prior to painting.
The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
The clamping device shall be galvanized according to AASHTO M232. Cost of clamping device included with Floor Drains.
The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
New Floor Drains shall be installed after scarification operations are completed for each stage. Full depth patches approximately 18" square shall be used to remove the existing floor drains and install proposed drains. Cost of existing floor drain removal shall be included with Deck Slab Repair (Full Depth, Type I) and will not be measured for payment separately.
The strengthening angles shall be paid for as Structural Steel Repair.



FLANGE STRENGTHENING ON SOUTH FASCIA BEAM
(4-Locations)

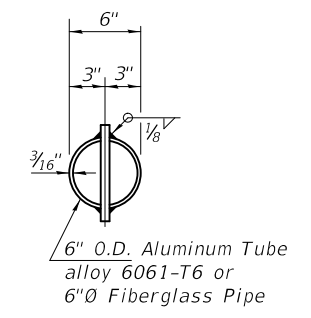


FLANGE STRENGTHENING ON NORTH FASCIA BEAM
(4-Locations)

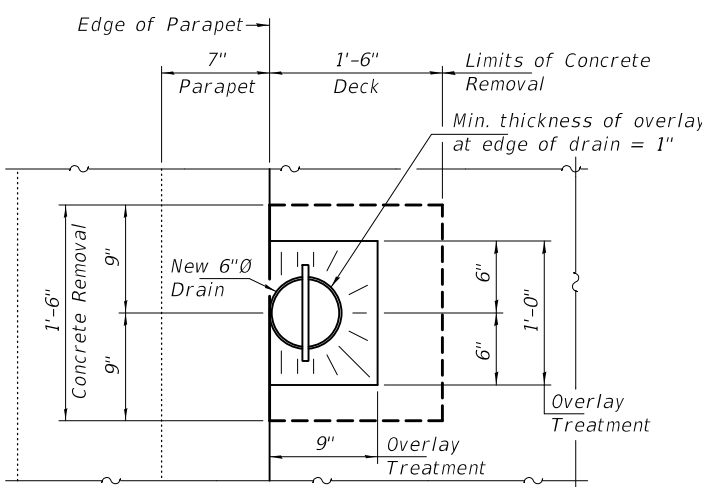


ALUMINUM TUBE

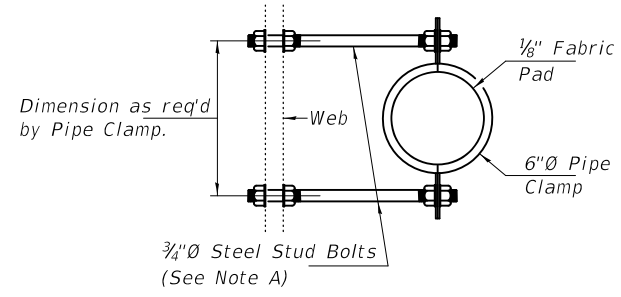
FIBERGLASS PIPE



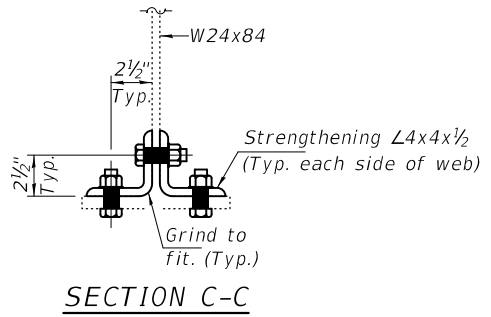
TOP PLAN
(Showing Aluminum Tube)



VIEW A-A



SECTION B-B



SECTION C-C

DESIGNED - JSB
CHECKED - CDK
DRAWN - Steffen
CHECKED - JSB CDK

EXAMINED
PASSED
Timothy A. [Signature]
ENGINEER OF STRUCTURAL SERVICES
Carl [Signature]
ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 29, 2019
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FLOOR DRAIN REMOVAL & REPLACEMENT DETAILS
SN 008-0005

SHEET NO. 7 OF 8 SHEETS

| | | | | |
|---------------------------|---------------|---------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 17 | D2 BDR 2019-1 | CARROLL | 20 | 19 |
| CONTRACT NO. 64N25 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| | | | | |
|---------------------|----------------|---------------|--------------|-----------|
| ROUTE NO. | SEC. | COUNTY | TOTAL SHEETS | SHEET NO. |
| FA. 17 | 4BR-4 | CARROLL | 26 | 13 |
| STA. 191+37 | TO STA. 197+18 | | PROJECT | |
| FED. ROAD DIST. NO. | ILLINOIS | Sh. # 6 of 13 | | |

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total and Overload).

I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s (Total and Overload).

VR is the maximum Live Load + Impact shear range in span.

Z is the plastic section modulus used to determine the Fully Plastic Moments in the non-composite areas.

M_G (Applied Moment) = $1.3 [M_D + M_S + S_3(M_L + I)]$

M_u is the Full Plastic Moment Capacity for Compact, Braced section.

f_s (Overload) is the sum of the stresses due to $M_D + M_S + S_3(M_L + I)$.

M_D - Moment due to dead loads on a non-composite section.

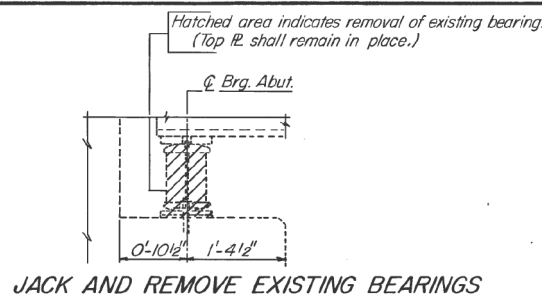
M_S - Moment due to dead loads on composite section.

M_L - Moment due to live loads on non-composite or composite section.

I - Live load impact.

The fully plastic moment capacity (M_u) is computed according to AASHTO 10.4.6.1 to 10.50.1.1.

| INTERIOR GIRDER MOMENT TABLE | | | |
|------------------------------|------------------------|------------|-----------|
| | 0.4 Sp. 1 0.6 Sp. 3 | Pier 1 & 2 | 0.5 Sp. 2 |
| I_s (in ⁴) | 2,370 | 2,370 | 2,370 |
| I_c (in ⁴) | — | — | 7,657 |
| S_s (in ³) | 196 | 196 | 196 |
| S_c (in ³) | — | — | 315 |
| Z | 224 | 224 | — |
| \bar{Q} (ft) | .845 | .845 | .845 |
| M_D (k) | 53.2 | 99.06 | 51.46 |
| S_D (ft) | .320 | .320 | .320 |
| M_S (k) | 21.8 | 33.35 | 23.7 |
| M_L (k) | 162.4 | 122.1 | 212.0 |
| M_{imp} (k) | 48.8 | 36.6 | 63.6 |
| S_3 ($M_L + imp$) (k) | 352.0 | 264.5 | 459.3 |
| M_G | 555.0 | 516.0 | 694.7 |
| M_u | 616.0 | 616.0 | 1,260 |
| f_s non-comp. (k.s.i.) | 4.6 | 8.1 | 3.2 |
| f_s comp. (k.s.i.) | — | — | 1.0 |
| f_s S_3 ($L + I$) | 21.6 | 16.2 | 17.5 |
| f_s (Overload) (k.s.i.) | 26.2 | 24.3 | 21.7 |
| VR (k) | — | — | 39.8 |



JACK AND REMOVE EXISTING BEARINGS

(Dimensions are at Rt. L's.)
(Typ. for all Abutments.)

Notes: Jacking, cribbing and bearing replacement shall occur under Stage Construction with a maximum lift of 1".

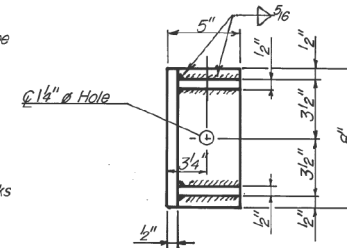
The maximum dead load reaction with deck removed (per bearing) at each abutment is 1.1 kips.

Bearing removal and replacement shall be completed before new deck is poured.

| INTERIOR BEAM REACTION | | |
|------------------------|--------|----------------------|
| | Abuts. | Pier # 1 Pier # 2 |
| R D (k) | 13.3 | 44.0 |
| R L (k) | 33.1 | 45.2 |
| Imp (k) | 9.9 | 13.6 |
| R (Total) | 56.3 | 102.8 |

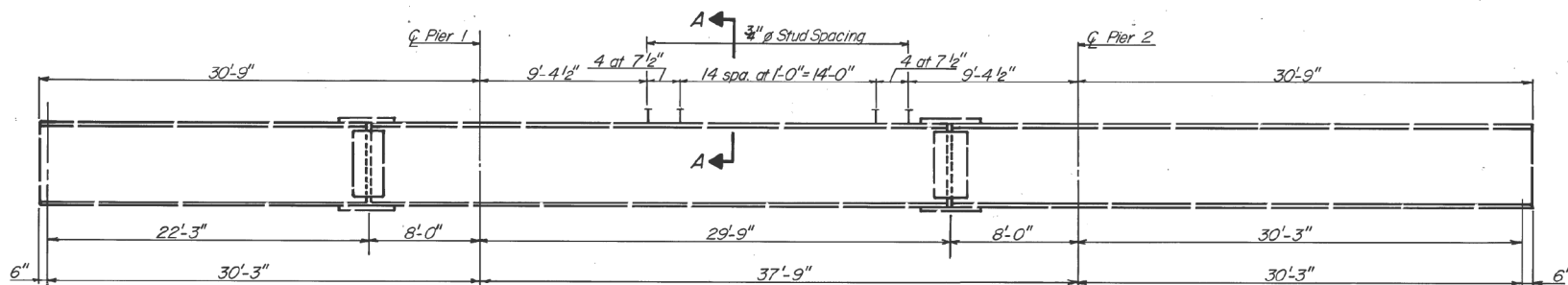
JACK AND REMOVE EXISTING BEARING PROCEDURE

- The Contractor shall submit for approval by the Engineer, plans for jacking prior to commencing any work at the bearings. Dead Load = 1.1 k at each beam without concrete deck.
- During each stage of construction, jacking and removing existing bearings shall be done after deck removal is completed and before the new deck is poured.
- Jacking shall be limited to a maximum of 1" lift.
- The existing rockers and bottom plates shall be removed, leaving the existing anchor bolts and top plate intact. The bottom of the existing top plate shall be cleaned and painted as required and as specified for structural steel prior to placing the new elastomeric bearings.
- The new elastomeric bearings and steel extensions shall be placed and the jacks shall be lowered.



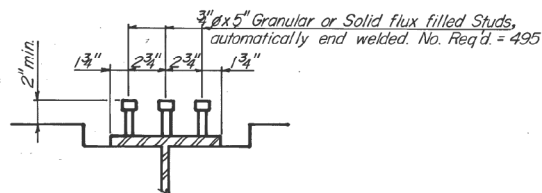
SIDE RETAINER

20 Req'd.
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

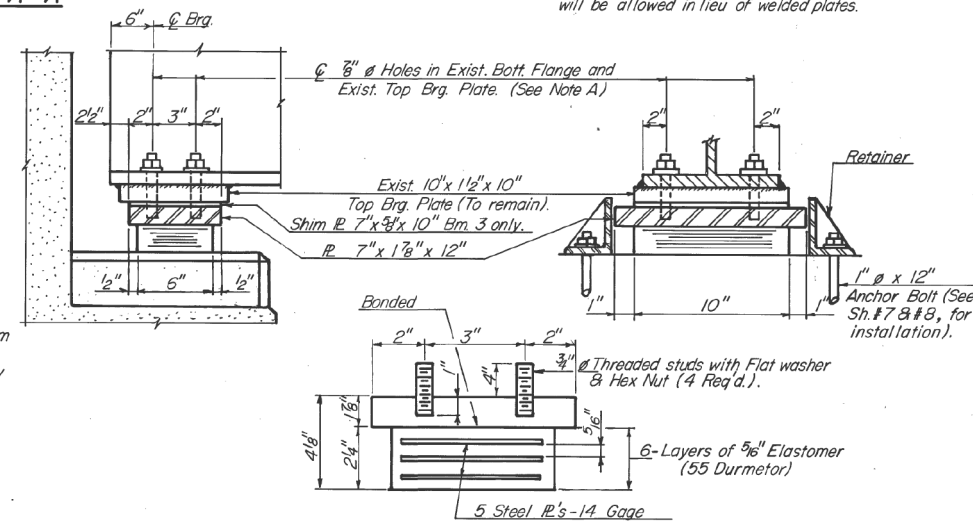


ELEVATION-EXISTING BEAMS

Existing Beams W 24 x 84



SECTION A-A



BEARING DETAILS AT ABUTMENTS

10 Req'd.

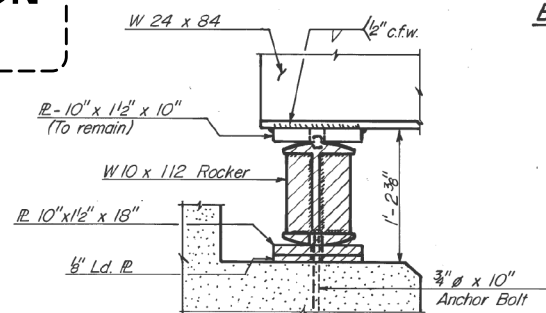
BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|---------------------------------------|------|----------|
| Elastomeric Bearing Assembly - Type I | Each | 10 |
| Jack and Remove Existing Bearings | Each | 10 |

STRUCTURAL STEEL BEARING DETAILS

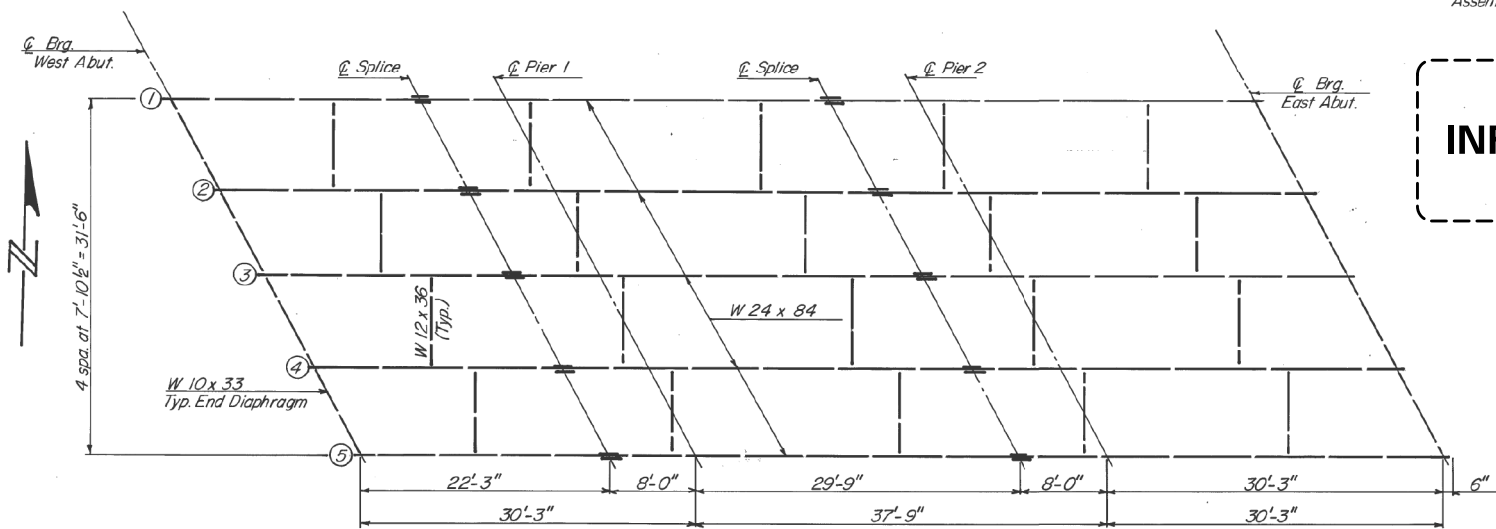
FA ROUTE 17
SECTION 4BR-4
US RTE. 52 & IL RTE. 64 over
STRADDLE CREEK
STA. 194+50
CARROLL COUNTY
STRUCTURE NO. 0008-0005

FOR INFORMATION ONLY



EXISTING BEARINGS AT ABUTMENTS

To be removed except as noted (Cost incidental to Elastomeric Bearing Assembly (Type I)).



LAYOUT EXISTING STEEL

Des. J.L.W. Ck. R.S. Dr. J.P. SANDOVAL ENGINEERS, INC.

DESIGNED - JSB
CHECKED - CDK
DRAWN - Steffen
CHECKED - JSB CDK

EXAMINED
PASSED
Timothy A. Andujar
ENGINEER OF STRUCTURAL SERVICES
Carl Ringer
ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 29, 2019
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL - FOR INFORMATION ONLY
SN 008-0005

SHEET NO. 8 OF 8 SHEETS

| | | | | |
|--------------------|---------------|---------|---------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 17 | D2 BDR 2019-1 | CARROLL | 20 | 20 |
| CONTRACT NO. 64N25 | | | ILLINOIS FED. AID PROJECT | |