URBAN
90% FED.
10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE ROADWAY 0004 S.N.	~~LANDSCAPING~~ ~~0031~~ URBAN	BRIDGE 0011 S.N. 016-1322	BRIDGE 0011 S.N. 016-1323	BRIDGE 0011 S.N. 016-2573	MINOR STRUCTURES 0040 S.N. 016-Z014	SAFETY 0021 URBAN
60500105	FILLING MANHOLES	EACH	4	4						
60500205	FILLING CATCH BASINS	EACH	4	4						
60500305	FILLING INLETS	EACH	1	1						
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	17	17						
60600605	CONCRETE CURB, TYPE B	FOOT	100	100						
60618320	CONCRETE MEDIAN SURFACE, 6 INCH	SQ FT	465	465						
60900315	TYPE D INLET BOX, STANDARD 609006	EACH	1	1						
60900515	CONCRETE THRUST BLOCKS	EACH	1	1						
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2						
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2						
63500105	DELINEATORS	EACH	44	44						
63700275	CONCRETE BARRIER, DOUBLE FACE, 42 INCH HEIGHT	FOOT	475	475						
63700805	CONCRETE BARRIER TRANSITION	FOOT	30	30						
63700900	CONCRETE BARRIER BASE	FOOT	3101	3101						
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	950	950						
64300450	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1	1						
67100100	MOBILIZATION	L SUM	1	1						
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1500	1500						
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1						
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4						

1 Rev. 6-3-13

• - DENOTES SPECIALTY ITEM
▣ - DENOTES 100% CITY OF CHICAGO
△ - DENOTES NON-PARTICIPATING ITEM

FILE NAME = I:\2008 - 194 at Ohio Street\C400\C400 SHEETS\0163F63-SOD.dgn

COLLINS ENGINEERS INC

USER NAME = rgall	DESIGNED -	REVISED -
PLOT SCALE = 2.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 3/25/2013	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-90/94 AT OHIO STREET
SUMMARY OF QUANTITIES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	11
		CONTRACT NO. 60F63		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

MAINTENANCE OF TRAFFIC - GENERAL NOTES

1. SEE SPECIAL PROVISIONS TITLED TRAFFIC CONTROL AND PROTECTION (SPECIAL) AND TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).

2. THE CONTRACTOR SHALL REMOVE AND SAFELY STORE (FREE FROM THEFT OR DAMAGE) OR COVER ALL CONFLICTING EXISTING SIGNS FOR THE DURATION OF THE CONSTRUCTION. ALL SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE END OF CONSTRUCTION.

3. THE FOLLOWING APPLY TO CONSTRUCTION SIGNS:

   A) THE CONTRACTOR SHALL FURNISH ALL SIGNS.

   B) THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND REPLACE ANY SIGNS THAT ARE SUPPLIED BY OTHERS AND DAMAGED BY THE CONTRACTOR'S WORK FORCE OR SUBCONTRACTORS DURING RELOCATION OR CONSTRUCTION OPERATIONS.

   C) ALL SIGNS AND ASSEMBLIES SHALL BE CERTIFIED BY THE CONTRACTOR AS MEETING THE APPLICABLE REQUIREMENTS OF NCHRP REPORT 350. TEST LEVEL 3.

   D) ALL SIGNS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) PAY ITEM, EXCEPT FOR TEMPORARY INFORMATIONAL SIGNING AS NOTED ON THE PLANS.

4. OPENINGS THROUGH THE BARRIER FOR CONTRACTOR'S ACCESS TO THE WORK ZONE SHALL BE PROVIDED AS APPROVED BY THE ENGINEER.

5. ANY RAISED REFLECTIVE PAVEMENT MARKERS THAT CONFLICT WITH THE TEMPORARY TRAFFIC LANES MUST HAVE THE REFLECTIVE LENSES REMOVED AS DIRECTED BY THE ENGINEER.

6. ALL TEMPORARY PAVEMENT MARKINGS ALONG I-90/94 AND RAMPS DURING STAGED CONSTRUCTION SHALL BE WET REFLECTIVE TAPE, TYPE III OF THE WIDTH AND COLOR SPECIFIED ON THE PLAN SHEETS.

7. MONO-DIRECTIONAL PRISMATIC BARRIER REFLECTORS WILL BE PLACED AT 25' CENTERS ON TOP AND SIDE OF TEMPORARY CONCRETE BARRIER FACING TRAFFIC.

8. A CHANGEABLE MESSAGE SIGN SHALL BE LOCATED ON I-90/94 EASTBOUND AND I-90/94 WESTBOUND, AS WELL AS LOCATIONS SPECIFIED ON THE PLANS.

9. NO TRAFFIC STAGES SHALL OVERLAP WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.

10. NO INTERIM COMPLETION DATES ARE SPECIFIED FOR ANY OF THE CONSTRUCTION STAGES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVEOPING HIS/HER CONSTRUCTION SCHEDULE TO MEET THE PROJECT COMPLETION DATE.

WINTER SHUTDOWN NOTES:

1. WINTER WORK IS ALLOWED. SEE SPECIAL PROVISIONS.

2. REMOVE ALL PAVEMENT MARKINGS THAT CONFLICT WITH WINTER SHUTDOWN TRAFFIC LANES. APPLY PAVEMENT MARKINGS AS DESCRIBED HEREIN.

   RAMP A NO LANE RESTRICTIONS. RESTORE EXISTING PAVEMENT MARKINGS.
   RAMP D NO LANE RESTRICTIONS. RESTORE EXISTING PAVEMENT MARKINGS.
   I-90/94 NO LANE RESTRICTIONS. RESTORE EXISTING PAVEMENT MARKINGS.
   RAMP C REMAIN IN STAGE I LANE CONFIGURATION

3. NO DROP OFFS SHALL BE ALLOWED DURING WINTER SHUTDOWN EXCEPT AS APPROVED BY THE ENGINEER AND WHICH ARE PROTECTED BY BARRIERS AS APPROPRIATE.

1

I-90/94, STAGING NOTES: STAGE IA

SEE SPECIAL PROVISIONS FOR STAGING AND LANE CLOSURE RESTRICTIONS.

WORK IN THIS STAGE CONSISTS OF CONSTRUCTING PORTIONS OF PIER 1 AND PIER 2 FOR SN 016-1322/SN 016-1323 IN THE MEDIAN OF I-90/94.

INSTALL STAGE I TEMPORARY SIGNAGE.

CLOSE THE INSIDE LANE OF WB I-90/94 IN ACCORDANCE WITH STD. 701400 AND 701401.

INSTALL BARRICADES ALONG THE SLIP RAMP EXITING THE EXPRESS LANES AND CLOSE THE INSIDE LANE OF EB I-90/94.

SHIFT EB AND WB I-90/94 TRAFFIC INTO THE STAGE I CONFIGURATION AS SHOWN ON THE PLANS INCLUDING INSTALLATION OF MOVEABLE TRAFFIC BARRIER AND TEMPORARY ATTENUATORS ADJACENT TO THE WORK ZONE IN ACCORDANCE WITH DISTRICT DETAIL TC-17.

I-90/94, STAGING NOTES: STAGE IB

ALL TRAFFIC CONTROL DEVICES, INCLUDING MOVEABLE TRAFFIC BARRIER SHALL BE RELOCATED OUT OF THE TRAVEL LANES, TO THE LOCATIONS SHOWN ON THE STAGING TYPICAL SECTIONS, AND ALL LANES OPENED BACK TO TRAFFIC.

I-90/94, STAGING NOTES: STAGE IC

WORK IN THIS STAGE CONSISTS OF SETTING THE BEAMS FOR SN 016-1322/ SN 016-1323.

TEMPORARY CLOSURES OF EB I-90/94 AND WB I-90/94 TRAFFIC DURING THE HOURS SPECIFIED IN THE SPECIAL PROVISIONS WILL BE PERMITTED.

RAMP C, STAGING NOTES: STAGE I

INSTALL CHANGEABLE MESSAGE SIGNS AND SIGN PANEL OVERLAYS PRIOR TO START OF CONSTRUCTION ACTIVITY ON I-90/94 AND THE RAMPS.

WORK IN THIS STAGE CONSISTS OF CONSTRUCTING TEMPORARY PAVEMENT ALONG RAMP C, REMOVING PORTIONS OF EXISTING RAMP C PAVEMENT AND CONSTRUCTING PORTIONS OF PROPOSED RAMP C AS SHOWN IN THE PLANS AND TYPICAL SECTIONS.

PRIOR TO SHIFTING RAMP C TRAFFIC INTO TEMPORARY LANE CONFIGURATION, TEMPORARY PAVEMENT SHALL BE CONSTRUCTED TO THE ALIGNMENT SHOWN ON THE PLANS. TRAFFIC DURING THIS STAGE SHALL REMAIN ON EXISTING RAMP C ALIGNMENT AND WORK SHALL BE DONE ON ACCORDANCE WITH DETAIL TC-17, PARTIAL RAMP CLOSURES, MAINTAINING A MINIMUM OF A 12' TRAFFIC LANE AT ALL TIMES.

WORK IN THIS STAGE CONSISTS OF CONSTRUCTING THE SUBSTRUCTURE FOR SN 016-1322 AND SN 016-1323, INCLUDING GROUND IMPROVEMENTS (INSTALLATION OF AGGREGATE PIERS), PORTIONS OF THE APPROACH MSE WALLS AND TEMPORARY GEOTEXTILE WALL, AS SHOWN IN THE PLANS.

SHIFT RAMP C TRAFFIC INTO THE STAGE I CONFIGURATION AS SHOWN ON THE PLANS INCLUDING INSTALLATION OF THE TEMPORARY CONCRETE BARRIER ADJACENT TO THE TEMPORARY RAMP C PAVEMENT.

SEE ELECTRICAL PLANS FOR TEMPORARY LIGHTING PLANS ALONG RAMP C

GROUND IMPROVEMENTS (AGGREGATE PIERS) FOR MSE WALL CONSTRUCTION REQUIRE SETTLEMENT PERIOD. SEE STRUCTURAL PLANS AND SPECIAL PROVISIONS.

RAMP A, STAGING NOTES: STAGE IA

WORK IN THIS STAGE CONSISTS OF CONSTRUCTING THE SUBSTRUCTURE FOR SN 016-2573, INCLUDING INSTALLING TEMPORARY LIGHTING, CONSTRUCTION OF THE TEMPORARY SOIL RETENTION SYSTEM, ALL PROPOSED WORK ALONG THE SOUTH HALF OF THE UNDERPASS, INCLUDING CONSTRUCTION OF THE ABUTMENT EXTENSION, ABUTMENT REPAIRS, AND REPLACEMENT OF THE SOUTH HALF OF RAMP A PAVEMENT AS SHOWN IN THE PLANS AND TYPICAL SECTIONS.

SHIFT RAMP A TRAFFIC INTO THE SUBSTAGE A CONFIGURATION AS SHOWN ON THE PLANS INCLUDING THE TEMPORARY CONCRETE BARRIER ADJACENT TO RAMP TRAFFIC.

RAMP A, STAGING NOTES: STAGE IB

WORK IN THIS STAGE CONSISTS OF CONSTRUCTING THE SUBSTRUCTURE FOR SN 016-2573, INCLUDING INSTALLING TEMPORARY LIGHTING, CONSTRUCTION OF THE TEMPORARY SOIL RETENTION SYSTEM, ALL PROPOSED WORK ALONG THE NORTH HALF OF THE UNDERPASS, INCLUDING CONSTRUCTION OF THE ABUTMENT EXTENSION, ABUTMENT REPAIRS, AND REPLACEMENT OF THE NORTH HALF OF RAMP A PAVEMENT AS SHOWN IN THE PLANS AND TYPICAL SECTIONS.

SHIFT RAMP A TRAFFIC INTO THE SUBSTAGE B CONFIGURATION AS SHOWN ON THE PLANS INCLUDING THE TEMPORARY CONCRETE BARRIER ADJACENT TO RAMP TRAFFIC.

RAMP A, STAGING NOTES: STAGE IC

SEE SPECIAL PROVISIONS FOR STAGING AND LANE CLOSURE RESTRICTIONS.

WORK IN THIS STAGE CONSISTS OF REPLACEMENT OF THE EXISTING PPC DECK BEAMS ALONG SN-016-2573 UP TO THE STAGE I CONSTRUCTION LINE.

RAMP A TRAFFIC WILL BE CLOSED TO TRAFFIC DURING THE HOURS SPECIFIED IN THE SPECIAL PROVISIONS. ALL RAMP A TRAFFIC WILL BE DETOURED AS SHOWN IN DETOUR ROUTING "A".

RAMP D, STAGING NOTES: STAGE IA

WORK IN THIS STAGE CONSISTS OF CONSTRUCTING THE SUBSTRUCTURE FOR SN 016-1323, INCLUDING GROUND IMPROVEMENTS (INSTALLATION OF AGGREGATE PIERS), PORTIONS OF THE APPROACH MSE WALL AND TEMPORARY GEOTEXTILE WALL ALONG THE EAST SIDE OF RAMP D AS SHOWN IN THE PLANS.

SHIFT THE 2-LANE RAMP D TRAFFIC INTO THE STAGE IA LANE CONFIGURATION AS SHOWN ON THE PLANS INCLUDING INSTALLATION OF TEMPORARY CONCRETE BARRIER ADJACENT TO RAMP TRAFFIC.

RAMP D, STAGING NOTES: STAGE IB

WORK IN THIS STAGE CONSISTS OF CONSTRUCTING THE SUBSTRUCTURE FOR SN 016-1323, INCLUDING PORTIONS OF THE APPROACH MSE WALL AND TEMPORARY GEOTEXTILE WALL ALONG THE WEST SIDE OF RAMP D AS SHOWN IN THE PLANS.

SHIFT THE 2-LANE RAMP D TRAFFIC INTO THE STAGE IB LANE CONFIGURATION AS SHOWN ON THE PLANS INCLUDING RELOCATION OF TEMPORARY CONCRETE BARRIER ADJACENT TO RAMP TRAFFIC.

RAMP D, STAGING NOTES: STAGE IC

WORK IN THIS STAGE CONSISTS OF SETTING THE BEAMS FOR SN 016-1323.

TEMPORARY CLOSURES OF EB I-90/94, WB I-90/94 AND THE RAMPS DURING THE HOURS SPECIFIED IN THE SPECIAL PROVISIONS WILL BE PERMITTED.

I-90/94, STAGING NOTES: STAGE 2 - PRE-STAGE

"CHANGEABLE MESSAGE SIGNS" SHALL BE INSTALLED, AS SHOWN ON THE PLANS. THE LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.

CONSTRUCT TEMPORARY PAVEMENT ALONG RAMP D, AS SHOWN IN THE PLANS.

I-90/94, STAGING NOTES: STAGE 2A

SEE SPECIAL PROVISIONS FOR STAGING AND LANE CLOSURE RESTRICTIONS.

INSTALL SIGN PANEL OVERLAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

WORK IN THIS STAGE CONSISTS OF REMOVING SN 016-1003 SUPERSTRUCTURE UNIT 2 OVER THE REVERSIBLE LANES AND EB I-90/94.

LOCAL TRAFFIC WILL BE DETOURED USING DETOUR ROUTING "B", AS SHOWN IN THE PLANS.

RESTRICT ALL EB I-90/94 TRAFFIC TO 2 LANES, PER STD. 701400 AND 701446, AND AS SHOWN IN THE PLANS.

ALL EB MAINLINE I-90/94 TRAFFIC AND THE REVERSIBLES WILL BE CLOSED AT THE 2-LANE EXIT TO EB OHIO STREET. TWO (2) LANES OF TRAFFIC WILL BE DIVERTED ONTO THE EB OHIO STREET EXIT RAMP (RAMP D) AND ONTO TEMPORARY PAVEMENT CONSTRUCTED TO FACILITATE A 2-LANE CROSSOVER TO THE EXISTING ONTARIO STREET ENTRANCE RAMP I-90/94.

SUPERSTRUCTURE UNIT 2 WILL BE MOVED VIA SELF-PROPELLED MOBILE TRANSPORT (SPMT) EQUIPMENT, OR OTHER MEANS TO A LOCATION ALONG THE EB LANES, AS SHOWN ON THE PLANS. THE STRUCTURE WILL BE LOCATED OFF THE PAVEMENT ALLOWING FOR FURTHER DEMOLITION WHILE ALL LANES OF TRAFFIC ARE REOPENED. SEE SPECIAL PROVISIONS FOR RESTRICTIONS ON DEMOLITION.

I-90/94, STAGING NOTES: STAGE 2B

SEE SPECIAL PROVISIONS FOR STAGING AND LANE CLOSURE RESTRICTIONS.

INSTALL SIGN PANEL OVERLAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

WORK IN THIS STAGE CONSISTS OF REMOVING SN 016-1003 SUPERSTRUCTURE UNIT 1 OVER THE EXPRESS LANES AND WB I-90/94.

LOCAL TRAFFIC WILL BE DETOURED USING DETOUR ROUTING "B", AS SHOWN IN THE PLANS.

WORK IN THIS STAGE CONSISTS OF TEMPORARILY RESTRIPING N. ORLEANS STREET AS SHOWN IN THE PLANS.

ALL WB MAINLINE I-90/94 TRAFFIC WILL BE REDUCED TO 2 LANES, PER STD. 701400 AND 701446, AS SHOWN ON THE PLANS. ALL WB MAINLINE LANES AND THE REVERSIBLES WILL BE CLOSED AT THE EXIT TO EB OHIO STREET. TWO (2) LANES OF TRAFFIC WILL BE DIVERTED ONTO EB OHIO STREET, AS SHOWN IN THE PLANS.

AT THE CONCLUSION OF THE STAGE, N. ORLEANS STREET SHALL BE RESTORED TO THE ORIGINAL STRIPING CONFIGURATION AND OPENED TO TRAFFIC.

I-90/94, STAGING NOTES: STAGE 2C

SEE SPECIAL PROVISIONS FOR STAGING AND LANE CLOSURE RESTRICTIONS.

INSTALL SIGN PANEL OVERLAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

WORK IN THIS STAGE CONSISTS OF REMOVING SN 016-1003 SUPERSTRUCTURE UNIT 3 OVER RAMP D.

LOCAL TRAFFIC WILL BE DETOURED USING DETOUR ROUTING "B", AS SHOWN IN THE PLANS.

ALL MAINLINE I-90/94 TRAFFIC WILL BE OPEN AND THE EXIT TO EB OHIO STREET CLOSED, AS SHOWN IN THE PLANS.

SUPERSTRUCTURE UNIT 3 WILL BE MOVED VIA SELF-PROPELLED MOBILE TRANSPORT (SPMT) EQUIPMENT, OR OTHER MEANS TO A LOCATION ALONG RAMP D, AS SHOWN ON THE PLANS. THE STRUCTURE WILL BE LOCATED OFF THE PAVEMENT ALLOWING FOR FURTHER DEMOLITION WHILE ALL LANES OF TRAFFIC ARE REOPENED. SEE SPECIAL PROVISIONS FOR RESTRICTIONS ON DEMOLITION.

I-90/94, STAGING NOTES: STAGE IIIA

SEE SPECIAL PROVISIONS FOR STAGING AND LANE CLOSURE RESTRICTIONS.

WORK IN THIS STAGE CONSISTS OF CONSTRUCTING THE REMAINING PORTIONS OF PIER 1 AND PIER 2 FOR SN 016-1322 IN THE MEDIAN OF I-90/94.

CLOSE THE INSIDE LANE OF WB I-90/94 IN ACCORDANCE WITH STD. 701400 AND 701446.

INSTALL BARRICADES ALONG THE SLIP RAMP EXITING THE EXPRESS LANES AND CLOSE THE INSIDE LANE OF EB I-90/94.

SHIFT EB AND WB I-90/94 TRAFFIC INTO THE STAGE III CONFIGURATION AS SHOWN ON THE PLANS INCLUDING INSTALLATION OF TEMPORARY CONCRETE BARRIER AND TEMPORARY ATTENUATORS ADJACENT TO THE WORK ZONE IN ACCORDANCE WITH DISTRICT DETAIL TC-17.

I-90/94, STAGING NOTES: STAGE IIIB

SEE SPECIAL PROVISIONS FOR STAGING AND LANE CLOSURE RESTRICTIONS.

ALL TRAFFIC CONTROL DEVICES, INCLUDING TEMPORARY CONCRETE BARRIER SHALL BE RELOCATED OUT OF THE TRAVEL LANES TO THE LOCATIONS SHOWN ON THE STAGING TYPICAL SECTIONS, AND ALL LANES OPENED BACK TO TRAFFIC.

I-90/94, STAGING NOTES: STAGE IIIC

INSTALL SUBSTAGE IIIC SIGN PANEL OVERLAYS.

WORK IN THIS STAGE CONSISTS OF CONSTRUCTING THE EB AND WB I-90/94 SHOULDERS AND PORTIONS OF THE RAMP C ENTRANCE RAMP GORE.

SHIFT ALL WB I-90/94 TRAFFIC LANES IN 11 FOOT LANES TO LOCATIONS AS SHOWN IN THE PLANS.

CLOSE THE INSIDE LANE OF THE 2-LANE EXIT RAMP FROM EB I-90/94 TO EB OHIO STREET AND THE OUTSIDE LANE OF EB I-90/94. SHIFT ALL EB I-90/94 TRAFFIC LANES IN 11 FOOT LANES TO LOCATIONS AS SHOWN IN THE PLANS.

INSTALL TEMPORARY BARRIER WALL ALONG THE EB AND WB I-90/94 OUTSIDE SHOULDER IN ACCORDANCE WITH TC-17, STAGING TYPICAL SECTIONS, AND THE PLANS.

I-90/94, STAGING NOTES: STAGE IIID

WORK IN THIS STAGE CONSISTS OF CONSTRUCTING THE NORTH HALF OF THE RAMP C ENTRANCE RAMP GORE AND SETTING THE REMAINING BEAMS FOR SN 016-1322.

RELOCATE THE TEMPORARY BARRIER WALL TO THE LOCATIONS SHOWN ON THE STAGING TYPICAL SECTIONS AND PLANS.

SHIFT ALL EB AND WB I-90/94 TRAFFIC INTO THE ORIGINAL CONFIGURATION. TEMPORARY LANES CLOSURES ALONG EB I-90/94 AND WB I-90/94 WILL BE PERMITTED DURING THE HOURS SPECIFIED IN THE SPECIAL PROVISIONS.

I-90/94, STAGING NOTES: STAGE IIIE

WORK IN THIS STAGE CONSISTS OF CONSTRUCTING THE SOUTH HALF OF THE THE RAMP C ENTRANCE RAMP GORE.

INSTALL THE RAMP C TEMPORARY BARRIER WALL TO THE LOCATIONS SHOWN ON THE STAGING TYPICAL SECTIONS AND PLANS.

CLOSE LANE 5 (OUTSIDE LANE) OF EB I-90/94 AS SHOWN ON THE PLANS. LANES 1-4 WILL REMAIN IN THEIR ORIGINAL CONFIGURATION.

CONSTRUCT THE RMEINADER THE REMAINDER OF THE RAMP C ENTRANCE RAMP GORE.

RAMP C, STAGING NOTES: STAGE III

INSTALL CHANGEABLE MESSAGE SIGNS AND SIGN PANEL OVERLAYS PRIOR TO START OF CONSTRUCTION ACTIVITY ON I-90/94 AND ONTARIO STREET.

WORK IN THIS STAGE CONSISTS OF CONSTRUCTING TEMPORARY PAVEMENT ALONG RAMP C. REMOVING PORTIONS OF EXISTING RAMP C PAVEMENT AND CONSTRUCTING PORTIONS OF PROPOSED RAMP C AS SHOWN IN THE PLANS AND TYPICAL SECTIONS.

WORK IN THIS STAGE CONSISTS OF CONSTRUCTING THE REMAINDER OF THE SUBSTRUCTURE FOR SN 016-1322, INCLUDING GROUND IMPROVEMENTS (INSTALLATION OF AGGREGATE PIERS), PORTIONS OF THE EAST APPROACH MSE WALL AND TEMPORARY GEOTEXTILE WALL, AS SHOWN IN THE PLANS.

PRIOR TO SHIFTING RAMP C TRAFFIC INTO TEMPORARY LANE CONFIGURATION, TEMPORARY PAVEMENT SHALL BE CONSTRUCTED TO THE ALIGNMENT SHOWN ON THE PLANS. TRAFFIC DURING THIS STAGE SHALL REMAIN ON EXISTING RAMP C ALIGNMENT AND WORK SHALL BE DONE ON ACCORDANCE WITH DETAIL TC-17, PARTIAL RAMP CLOSURES, MAINTAINING A MINIMUM OF A 12' TRAFFIC LANE AT ALL TIMES.

SHIFT RAMP C TRAFFIC INTO THE STAGE III CONFIGURATION AS SHOWN ON THE PLANS INCLUDING INSTALLATION OF THE TEMPORARY CONCRETE BARRIER ADJACENT TO THE TEMPORARY RAMP C PAVEMENT.

SEE ELECTRICAL PLANS FOR TEMPORARY LIGHTING PLANS ALONG RAMP C

GROUND IMPROVEMENTS (AGGREGATE PIERS) FOR MSE WALL CONSTRUCTION REQUIRE SETTLEMENT PERIOD. SEE STRUCTURAL PLANS.

RAMP A, STAGING NOTES: STAGE IIIA

WORK IN THIS STAGE CONSISTS OF CONSTRUCTING ALL REMAINING WORK FOR SN 016-2573, ALONG THE SOUTH HALF OF THE UNDERPASS, INCLUDING ABUTMENT REPAIRS AS SHOWN IN THE PLANS AND TYPICAL SECTIONS.

SHIFT RAMP A TRAFFIC INTO THE SUBSTAGE A CONFIGURATION AS SHOWN ON THE PLANS INCLUDING THE TEMPORARY CONCRETE BARRIER ADJACENT TO RAMP TRAFFIC.

RAMP A, STAGING NOTES: STAGE IIIB

WORK IN THIS STAGE CONSISTS OF CONSTRUCTING ALL REMAINING WORK FOR SN 016-2573, ALONG THE NORTH HALF OF THE UNDERPASS, INCLUDING ABUTMENT REPAIRS AS SHOWN IN THE PLANS AND TYPICAL SECTIONS.

SHIFT RAMP A TRAFFIC INTO THE SUBSTAGE B CONFIGURATION AS SHOWN ON THE PLANS INCLUDING THE TEMPORARY CONCRETE BARRIER ADJACENT TO RAMP TRAFFIC.

RAMP A, STAGING NOTES: STAGE IIIC

WORK IN THIS STAGE CONSISTS OF REPLACEMENT OF THE REMAINING EXISTING PPC DECK BEAMS ALONG SN-016-2573.

RAMP A TRAFFIC WILL BE CLOSED TO TRAFFIC DURING THE HOURS SPECIFIED IN THE SPECIAL PROVISIONS. ALL RAMP A TRAFFIC WILL BE DETOURED AS SHOWN IN THE PLANS. SEE LOCAL DETOUR ROUTING.

RAMP D, STAGING NOTES: STAGE IIIA

WORK IN THIS STAGE CONSISTS OF CONSTRUCTING THE REMAINDER OF THE SUBSTRUCTURE FOR SN 016-1323 ON THE EAST SIDE OF RAMP D, INCLUDING PORTIONS OF THE APPROACH MSE WALL AND TEMPORARY GEOTEXTILE WALL AS SHOWN IN THE PLANS.

SHIFT THE 2-LANE RAMP D TRAFFIC INTO 11 FOOT LANES INTO THE STAGE IIIA LANE CONFIGURATION AS SHOWN ON THE PLANS INCLUDING INSTALLATION OF TEMPORARY CONCRETE BARRIER ADJACENT TO RAMP TRAFFIC.

RAMP D, STAGING NOTES: STAGE IIIB

WORK IN THIS STAGE CONSISTS OF CONSTRUCTING THE REMAINDER OF THE SUBSTRUCTURE FOR SN 016-1323 ON THE WEST SIDE OF RAMP D, INCLUDING PORTIONS OF THE APPROACH MSE WALL AND TEMPORARY GEOTEXTILE WALL AS SHOWN IN THE PLANS.

SHIFT THE 2-LANE RAMP D TRAFFIC INTO 11 FOOT LANES INTO THE STAGE IIIB LANE CONFIGURATION AS SHOWN ON THE PLANS INCLUDING RELOCATION OF TEMPORARY CONCRETE BARRIER ADJACENT TO RAMP TRAFFIC.

RAMP D, STAGING NOTES: STAGE IIIC

WORK IN THIS STAGE CONSISTS OF SETTING THE BEAMS FOR SN 016-1323.

A FULL CLOSURE OF RAMP D TRAFFIC DURING THE HOURS SPECIFIED IN THE SPECIAL PROVISIONS WILL BE PERMITTED.

RAMP C, STAGING NOTES: STAGE IV

WORK IN THIS STAGE CONSISTS OF CONSTRUCTING THE REMAINDER OF THE PROPOSED EMBANKMENT OVER SN 016-2573 AND CONSTRUCT THE PROTECTIVE CONCRETE SURFACE.

ALL TRAFFIC WILL BE IN THE ULTIMATE LANE CONFIGURATION

FILE NAME = J:\7008 - 194 at Ohio Street\CADD\EAGD SHEETS\MOT\D1E8F63-alt-MOT-Notes.dgn

COLLINS ENGINEERS, INC.

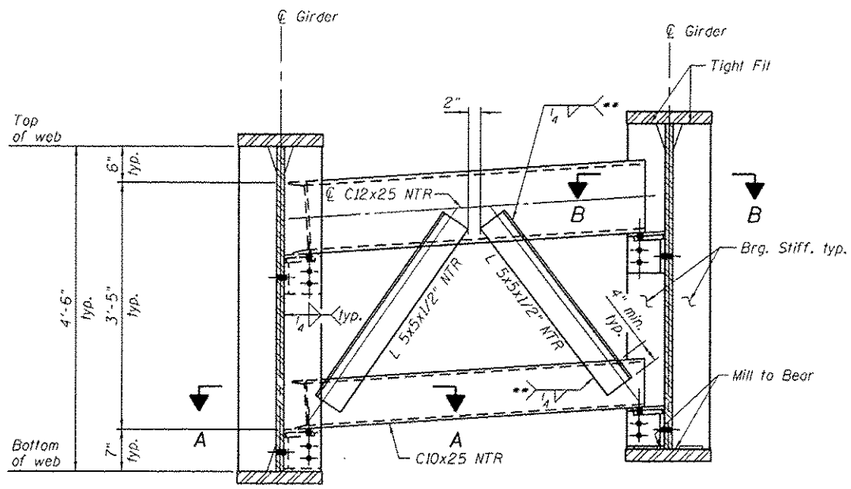
USER NAME = mrempfer	DESIGNED -	REVISED - ⚠ M.G.R. 5/31/13	
PLOT SCALE = 200.0000 ' / in.	DRAWN -	REVISED -	
PLOT DATE = 6/2/2013	CHECKED -	REVISED -	
	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING AND TRAFFIC CONTROL
STAGING NOTES

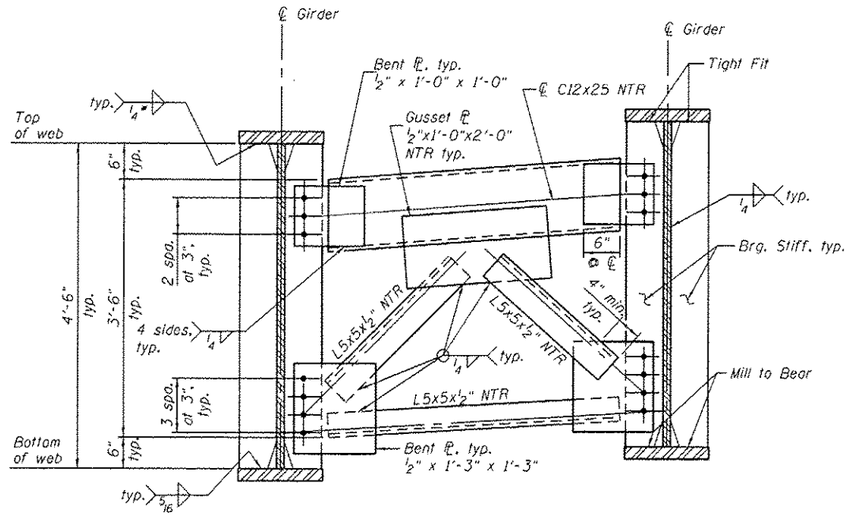
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	61
		CONTRACT NO. 60F63		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



TYPICAL END CROSS FRAME CF1

** Three sides, to back face of channel only, typ.

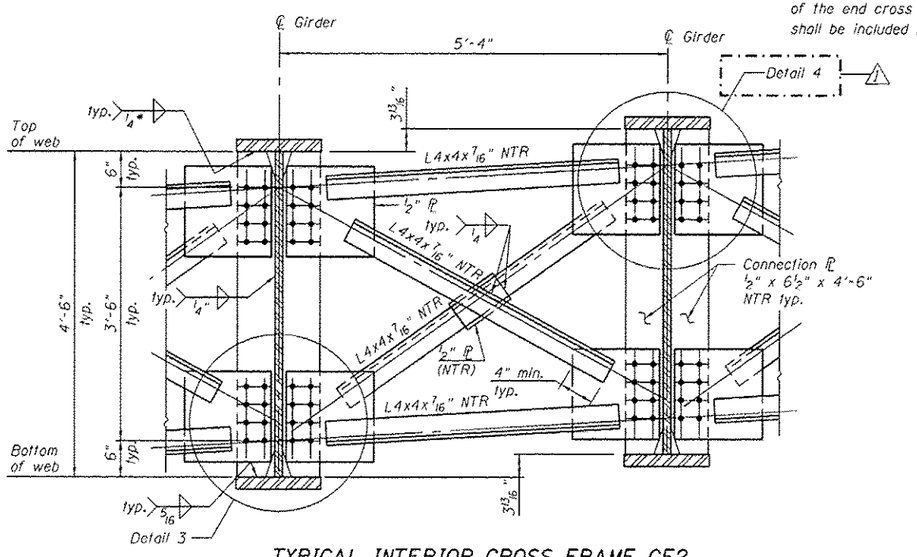


TYPICAL INTERIOR/END CROSS FRAME CF3

* 5/16" (between Splice 1 & 2)

Note:

End Cross frames at the Stage Line shall be installed after Stage I deck pour. See Stage III Deck Pour and Closure Sequencing on sheet S28 of S49. Timber block posts shall be used to support Stage I concrete formwork at the Abutments. Contractor shall apply grout to the top of the top channel of the end cross frames to ensure full contact between the Stage I concrete deck and the top of the channel of the end cross frames. Cost of timber block posts and grout shall be included in Furnishing and Erecting Structural Steel.



TYPICAL INTERIOR CROSS FRAME CF2

* 5/16" (between Splice 1 & 2)

Notes:

See framing plan on sheet S21 of S49 for location of girder cross frames.

For Detail 3, Detail 4 and Sections A-A and B-B, see sheet S28 of S49.

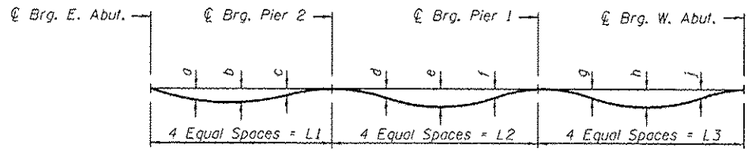
AASHTO M270 Grade 50 steel shall be used for all cross frames, connection plates, and bearing stiffeners, unless otherwise noted.

Load carrying components designated "NTR" shall conform to the Impact Testing Requirements, Zone 2.

All cross frames between girders shall be installed with erection pins and bolts in accordance with erection plan submitted to and approved by the Engineer. Individual cross frames at supports may be temporarily disconnected to install bearing anchor rods.

The calculated deflections of the primary girders under steel self-weight shall be used to detail the cross frame connections, and to erect the structural steel such that girders will be plumb within a tolerance of ±⅛" per vertical foot throughout the length of the girder system when supporting their own weight.

No connection plate on exterior side of exterior girders.



GIRDER SELF-WEIGHT DEFLECTION DIAGRAM

See Screed Dimension Layout Table on sheet S8 of S49 for span lengths.

GIRDER SELF WEIGHT DEFLECTIONS

Location	Girder 1	2	3	4	5	6	7
a	½"	⅞"	1 3/8"	⅜"	⅜"	⅞"	1⅛"
b	5/8"	1 1/4"	1 5/8"	½"	¾"	1⅛"	1 3/8"
c	⅜"	¾"	1½"	⅜"	5/8"	5/8"	¾"
d	-⅛"	-⅛"	-¼"	0"	-⅛"	-⅛"	-⅛"
e	-⅛"	-⅛"	-¼"	⅛"	-⅛"	-⅛"	-¼"
f	0"	-⅛"	-¼"	0"	-⅛"	-⅛"	-⅛"
g	⅛"	¼"	⅜"	⅛"	⅛"	⅜"	½"
h	¼"	½"	5/8"	¼"	⅜"	5/8"	¾"
j	⅛"	⅜"	½"	¼"	⅜"	½"	5/8"

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STATE OF ILLINOIS
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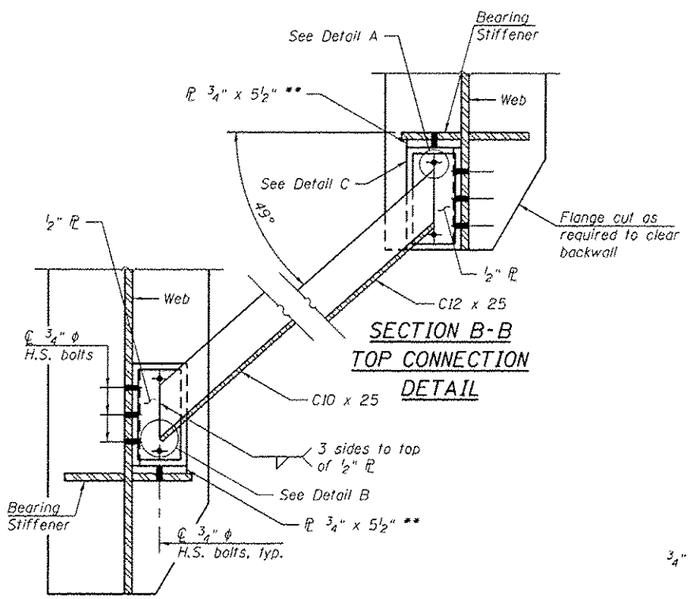
STEEL DETAILS
STRUCTURE NO. 016-1322
SHEET NO. S26 OF S49 SHEETS

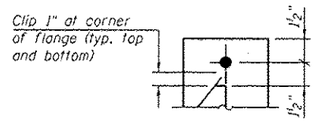
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0383	0303-474HB-R	COOK	368	218
		CONTRACT NO. 60F63		
	ILLINOIS FED. AID PROJECT			



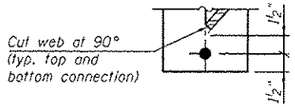
SECTION A-A
BOTTOM CONNECTION
DETAIL

SECTION B-B
TOP CONNECTION
DETAIL

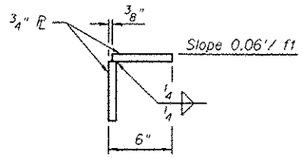
** Weld 3/4" x 5 1/2" plate to seat as shown in Detail D and Detail E.



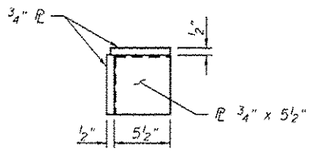
DETAIL A



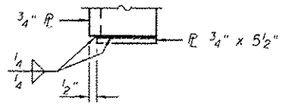
DETAIL B



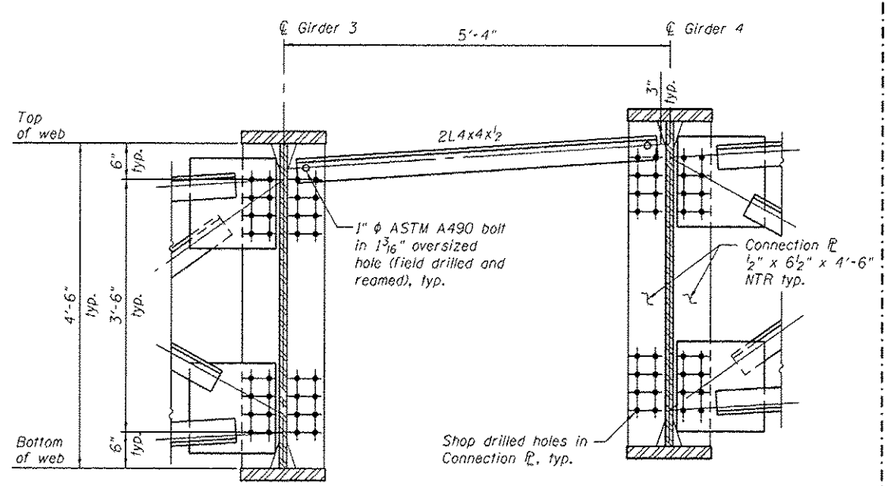
DETAIL C



DETAIL D

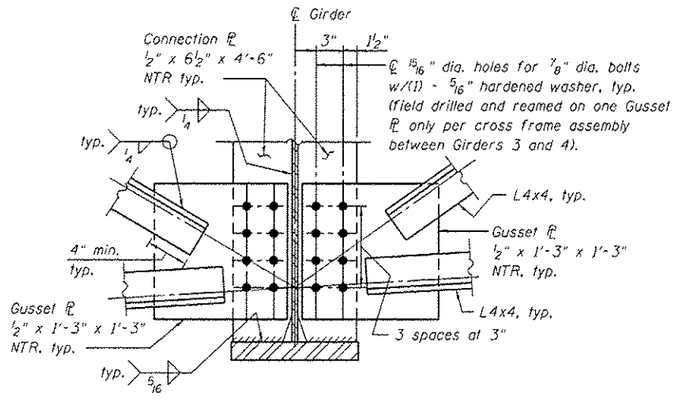


DETAIL E

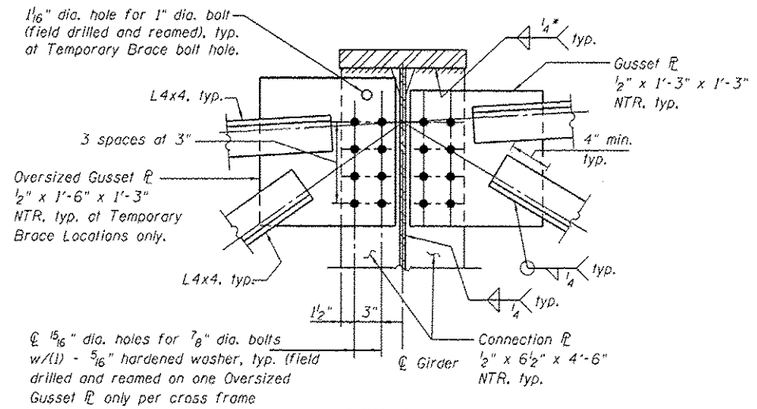


TEMPORARY BRACE FOR STAGE III DECK POUR

Notes:
Cost of temporary brace included in pay item "Furnishing and Erecting Structural Steel".
All structural steel shall be AASHTO M270 Grade 50.
NTR indicates Notch Toughness Requirements.



DETAIL 3



DETAIL 4

* 5/16 between Splice 1 & 2

STAGE III DECK POUR AND CLOSURE POUR SEQUENCING

1. Erect girder lines 1 thru 3 with cross frames between girders 1-2 and 2-3. Abutment and Pier cross frames between girders 3 and 4 to be erected.
2. Erect temporary brace between girder lines 3 and 4 at each cross frame location by field drilling and reaming holes in connection plates and temporary braces.
3. Pour Stage III deck.
4. Remove and replace temporary braces with cross frames. Only one temporary brace may be removed at a time. Install cross frames by field drilling and reaming holes in the gusset plates of one side of the cross frames only. Contractor shall field verify dimensions of cross frames prior to fabrication. See Details 3 and 4 for final gusset plate details.
5. Pour closure pour.

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PLOT DATE =	CHECKED - JMH	REVISED	

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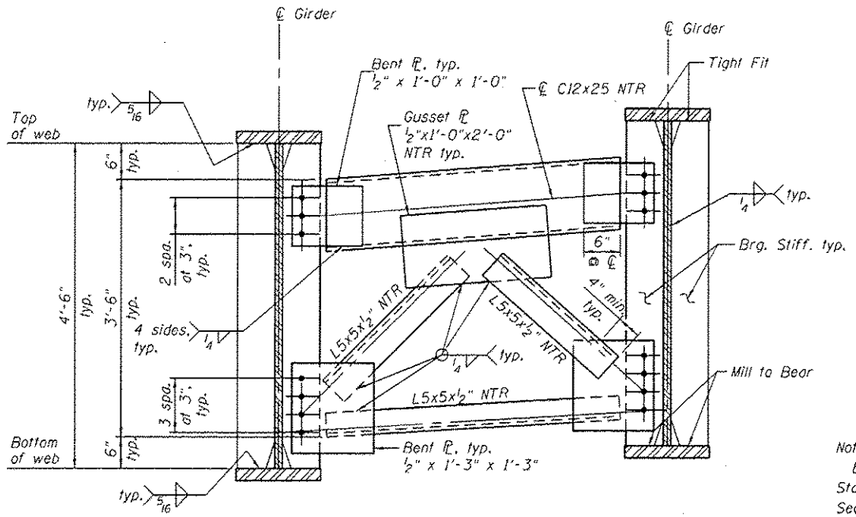
DEPARTMENT OF TRANSPORTATION

STEEL DETAILS
STRUCTURE NO. 016-1322
SHEET NO. 528 OF 549 SHEETS

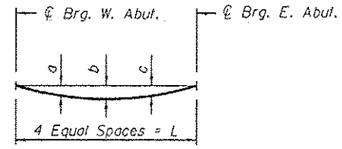
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0383	0303-474HB-R	COOK	368	220
		CONTRACT NO. 60F63		
	ILLINOIS FED. AID PROJECT			



TYPICAL END CROSS FRAME CF1

Note:

End Cross frames at the Stage Line shall be installed after Stage I deck pour. See Stage III Deck Pour and Closure Sequencing on sheet SR23 of SR41. Timber block posts shall be used to support Stage I concrete formwork at the Abutments. Contractor shall apply grout to the top of the top channel of the end cross frames to ensure full contact between the Stage I concrete deck and the top of the channel of the end cross frames. Cost of timber block posts and grout shall be included in Furnishing and Erecting Structural Steel.

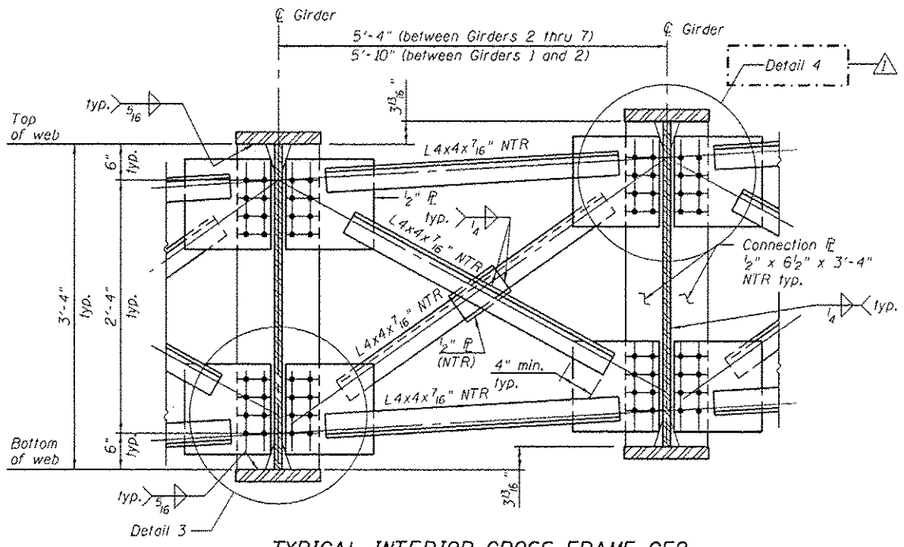


GIRDER SELF-WEIGHT DEFLECTION DIAGRAM

See Screed Dimension Layout Table on sheet SR6 of SR41 for span lengths.

GIRDER SELF-WEIGHT DEFLECTIONS

Location	Girder						
	1	2	3	4	5	6	7
a	1/4"	3/8"	1/2"	1/4"	1/4"	3/8"	3/8"
b	1/4"	1/2"	3/4"	1/2"	3/8"	1/2"	1/2"
c	1/4"	3/8"	1/2"	1/4"	1/4"	1/4"	3/8"



TYPICAL INTERIOR CROSS FRAME CF2

Notes:

See framing plan on sheet SR18 of SR41 for location of girder cross frames.

For Detail 3 and Detail 4, see sheet SR23 of SR41.

AASHTO M270 Grade 50 steel shall be used for all cross frames, connection plates, and bearing stiffeners, unless otherwise noted.

Load carrying components designated "NTR" shall conform to the Impact Testing Requirements, Zone 2.

All cross frames between girders shall be installed with erection pins and bolts in accordance with erection plan submitted to and approved by the Engineer. Individual cross frames at supports may be temporarily disconnected to install bearing anchor rods.

The calculated deflections of the primary girders under steel self-weight shall be used to detail the cross frame connections, and to erect the structural steel such that girders will be plumb within a tollerance of ±1/8" per vertical foot throughout the length of the girder system when supporting their own weight.

No connection plate on exterior side of exterior girders.

(Sheet 1 of 2)

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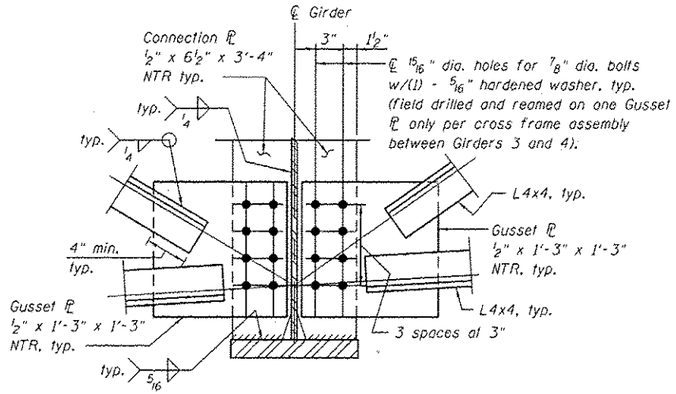
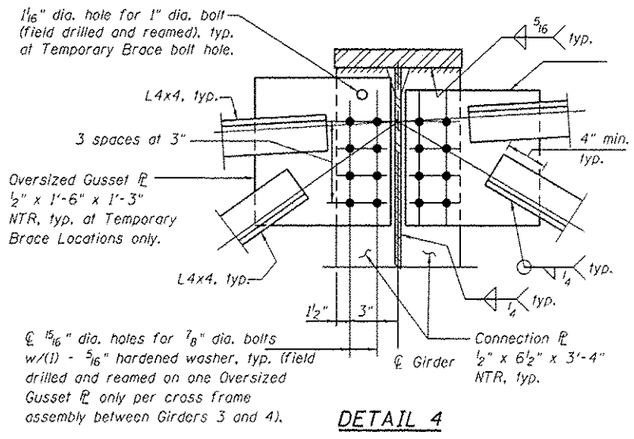
STEEL DETAILS
STRUCTURE NO. 016-1323
SHEET NO. SR22 OF SR41 SHEETS

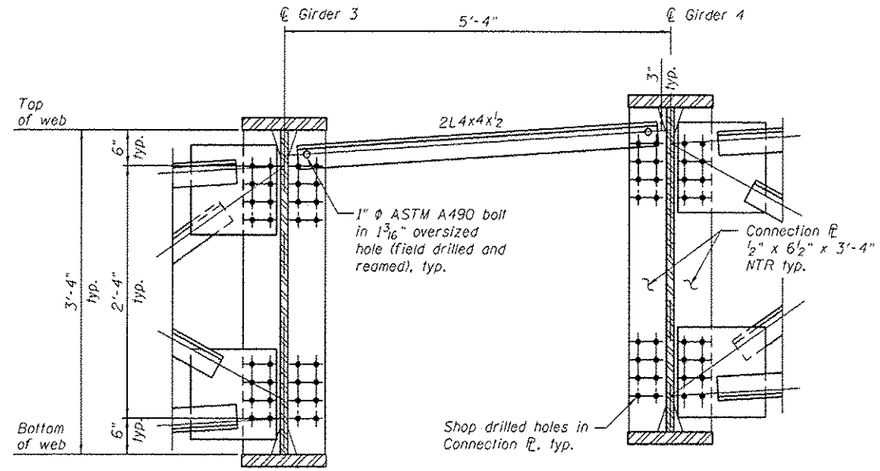
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0383	0303-474HB-R	COOK	368	263
		CONTRACT NO. 60F63		
		ILLINOIS FED. AID PROJECT		



DETAIL 3



DETAIL 4



TEMPORARY BRACE FOR STAGE III DECK POUR

Notes:
Cost of temporary brace included in pay item "Furnishing and Erecting Structural Steel".
All structural steel shall be AASHTO M270 Grade 50.
NTR indicates Notch Toughness Requirements.

STAGE III DECK POUR AND CLOSURE POUR SEQUENCING

1. Erect girder lines 1 thru 3 with cross frames between girders 1-2 and 2-3. Abutment cross frames between girders 3 and 4 to be erected.
2. Erect temporary brace between girder lines 3 and 4 at each cross frame location by field drilling and reaming holes in connection plates and temporary braces.
3. Pour Stage III deck.
4. Remove and replace temporary braces with cross frames. Only one temporary brace may be removed at a time. Install cross frames by field drilling and reaming holes in the gusset plates of one side of the cross frames only. Contractor shall field verify dimensions of cross frames prior to fabrication. See Details 3 and 4 for final gusset plate details.
5. Pour closure pour.

⚠ Entire sheet revised

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STEEL DETAILS
STRUCTURE NO. 016-1323
SHEET NO. SR23 OF SR41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0383	0303-474HB-R	COOK	368	264
		CONTRACT NO. 60F63		
	ILLINOIS FED. AID PROJECT			