

DISTRICT 1 - SCHAUMBURG: PROJECT MANAGER: BRIAN KUTTAB (847)705-4431

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2323.1F	COOK	011	1
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 62815

FOR SUMMARY OF QUANTITIES AND INDEX OF SHEETS SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

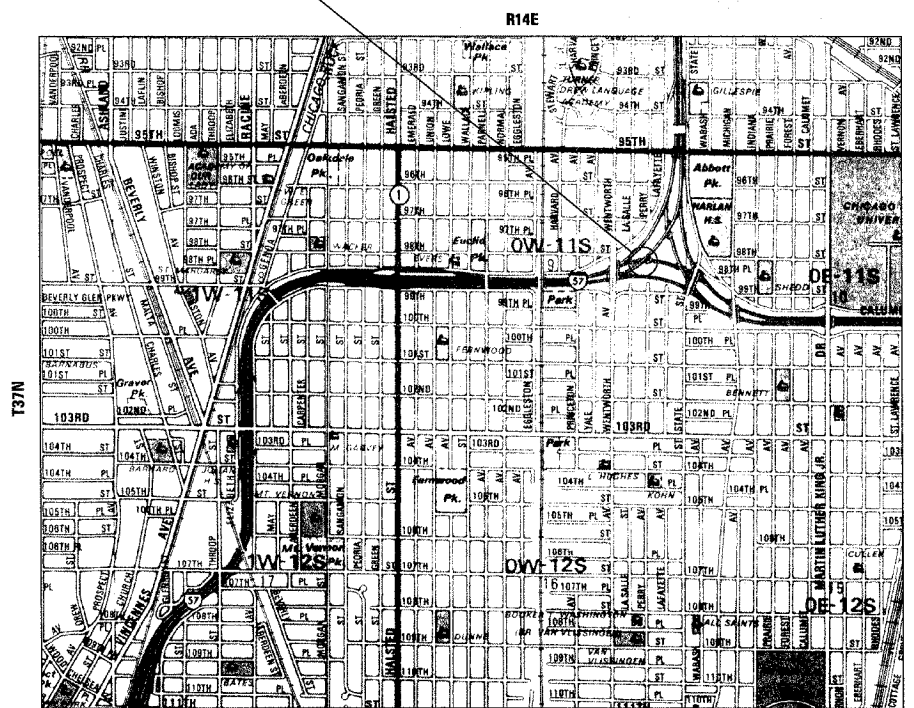
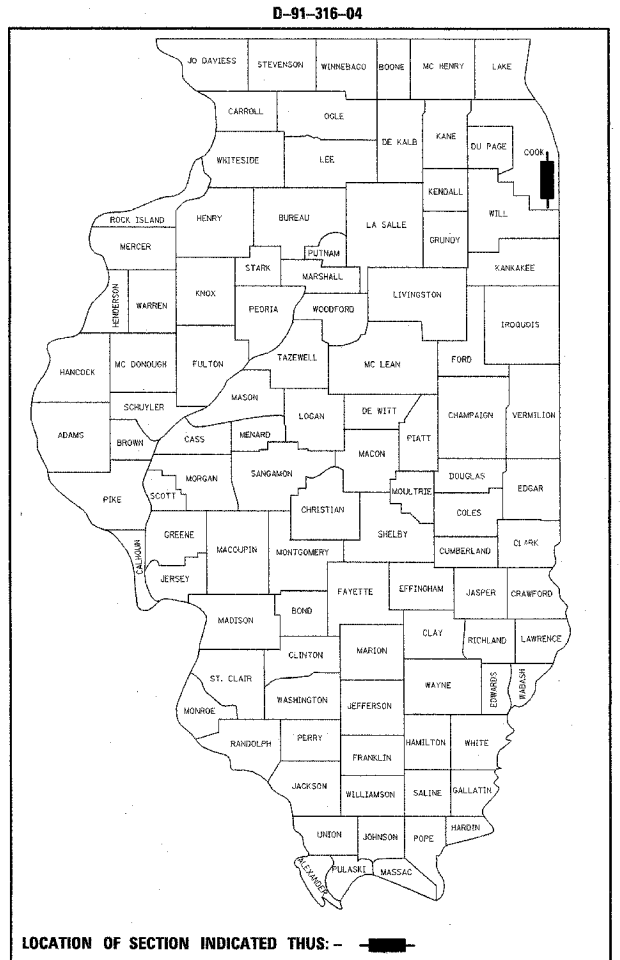
**PROPOSED
HIGHWAY PLANS**

F.A.I. ROUTE 57 NB (INTERSTATE 57 NB)
OVER WB CONNECTOR
BEAM & BEARINGS FABRICATION

SECTION: 2323.1F
PROJECT NO.: *IM-057-7(273)359*
COOK COUNTY
C-91-316-04

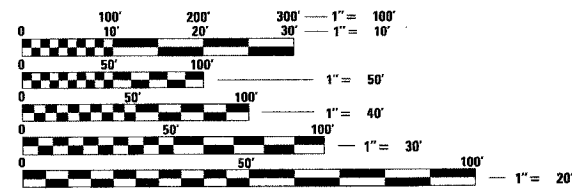
I-57 NB OVER WB CONNECTOR
EXIST. S.N. 016-0072
PROP. S.N. 016-2852

PROJECT START STA. 238+07.07
PROJECT ENDS STA. 239+26.89



LOCATION MAP
SCALE: 1" = 1650'

GROSS AND NET PROJECT LENGTH = 0.023 MILES



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.

FOR UTILITY INFORMATION CALL J.U.L.I.E. AT (800) 892-0123 OR C.U.A.N. (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 48 HOURS BEFORE DIGGING

CONTRACT NO. 62815



<p>COMPANY: TENG & ASSOCIATES INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N MICHIGAN AVE. CHICAGO IL 60601</p> <p>SIGNATURE: NAME: BYRON DANLEY LICENSE NO.: 081-004737 LICENSE EXP.: November 30, 2006 DATE: October 10, 2005</p>	<p>SEAL</p>
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Oct 25 20 05
Diane M. O'Keefe / cd DISTRICT ENGINEER
December 9, 20 05
Mike Hine ENGINEER OF DESIGN AND ENVIRONMENT
December 9, 20 05
Eric Horn DEPUTY DIRECTOR, DIVISION OF HIGHWAYS

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TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2323.1F	COOK	011	2
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62815

INDEX OF SHEETS

- 1 COVER SHEET
- 2 SUMMARY OF QUANTITIES & INDEX OF SHEETS
- 3 GENERAL PLAN AND ELEVATION
- 4 GENERAL NOTES, INDEX OF SHEETS AND BILL OF MATERIAL
- 5 CONSTRUCTION STAGING
- 6 DECK ELEVATION PLAN
- 7 TOP OF DECK ELEVATIONS
- 8 DECK CROSS SECTION & SUPERSTRUCTURE DETAILS
- 9 FRAMING PLAN
- 10 STRUCTURAL STEEL DETAILS
- 11 BEARING DETAILS

SUMMARY OF QUANTITIES

90% FED.
10% STATE
URBAN
X271-2A

CONSTRUCTION TYPE CODE: X271-2A

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
50500205	FURNISHING STRUCTURAL STEEL	L SUM	1
50300410	FURNISHING ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	8
50300475	STORAGE OF ELASTOMERIC BEARING ASSEMBLIES	CAL DA	45
50500455	STORAGE OF STRUCTURAL STEEL	CAL DA	45

IBETC

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 57 (INTERSTATE 57)
BEAM & BEARING FABRICATION
I-57 NB OVER WB CONNECTOR
EXISTING SN 016-0072, PROPOSED SN 016-2852
STA. 238+73.54, COOK COUNTY, SECTION 2323.1F

**SUMMARY OF QUANTITIES
& INDEX OF SHEETS**

DATE: 10/20/05

DRAWN BY: VV
CHECKED BY: RDS

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE., CHICAGO, IL 60601
TEL: (773) 324-1000

BENCHMARK

Square cut on the east end of curb at the northeast corner of first alley north of 99th street approximately 35 feet east of LaSalle street. Elev. 16.35 feet.

EXISTING STRUCTURE TO BE REMOVED

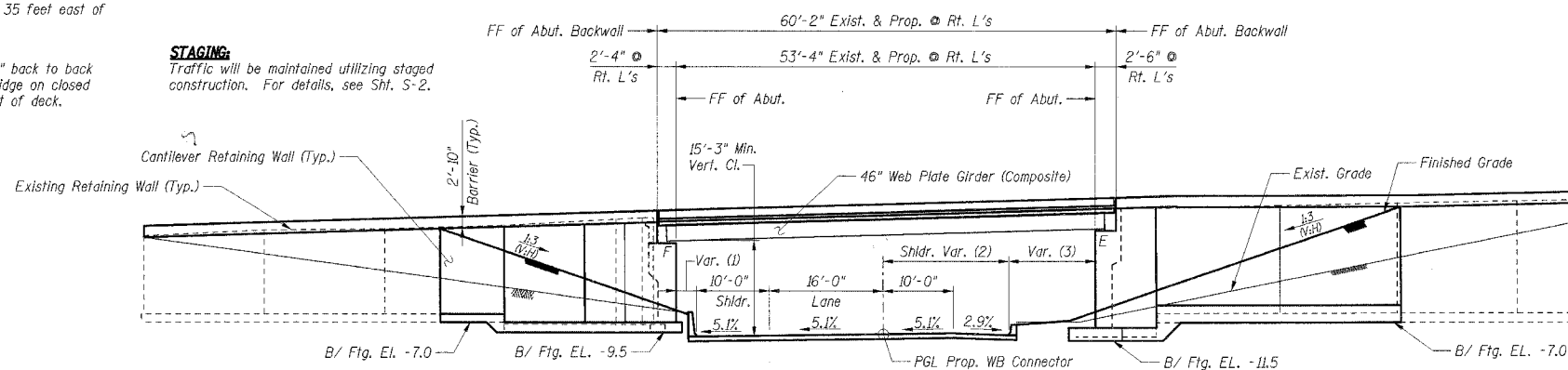
Structure No. 016-0072 Single span, 117'-4" back to back of abutments, composite steel plate girder bridge on closed abutments. The structure is 37'-0" out to out of deck.

SALVAGE:

None.

STAGING:

Traffic will be maintained utilizing staged construction. For details, see Sht. S-2.

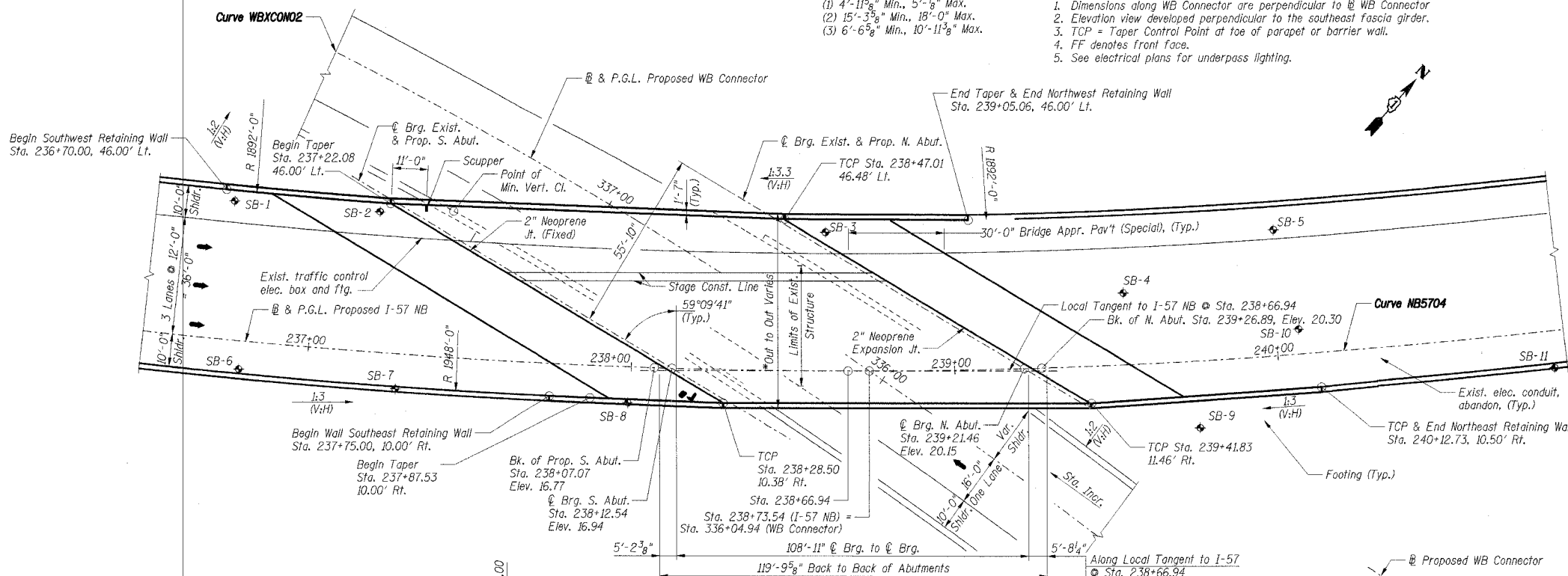


ELEVATION

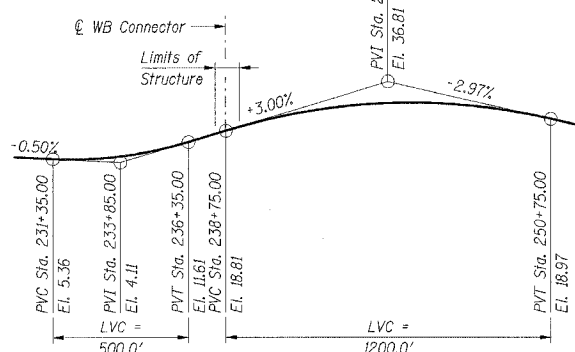
- (1) 4'-11¹/₈" Min., 5'-¹/₈" Max.
- (2) 15'-3³/₈" Min., 18'-0" Max.
- (3) 6'-6⁵/₈" Min., 10'-11³/₈" Max.

Notes:

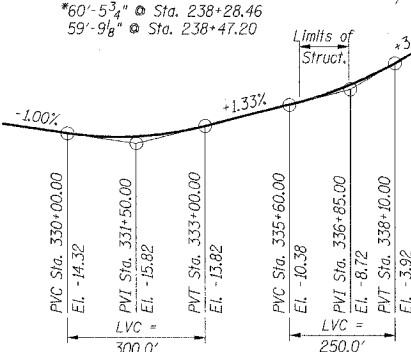
1. Dimensions along WB Connector are perpendicular to @ WB Connector
2. Elevation view developed perpendicular to the southeast fascia girder.
3. TCP = Taper Control Point at toe of parapet or barrier wall.
4. FF denotes front face.
5. See electrical plans for underpass lighting.



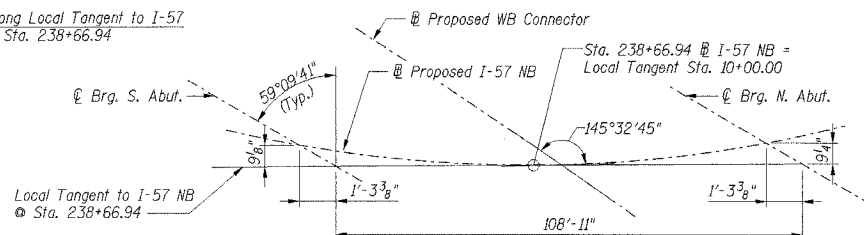
PLAN



PROFILE GRADE PROPOSED I-57 NB



PROFILE GRADE PROPOSED WB CONNECTOR



OFFSET SKETCH

LEGEND

SB-0 Soil Boring Location

ONLY STRUCTURAL STEEL AND BEARING FABRICATION IS INCLUDED IN THIS CONTRACT

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

DESIGN LOADING:

Roadway Live Load: HS 20-44 & Alt.
Future Wearing Surface = 50 psf

DESIGN STRESSES:

Concrete, f'c = 3,500 psi
Reinforcement, fy = 60,000 psi
Structural Steel, fy = 50,000 psi (M 270 Grade 50)

SEISMIC DATA:

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.04g
Site Coefficient (S) = 1.0

Prop. Curve WBXCON2

PI Sta. 337+82.29
 $\Delta = 19^\circ 30' 40" (LT)$
D = 3^\circ 40' 23"
T = 268.19'
R = 1,559.85'
L = 531.18'
E = 22.89'
PC Sta. 335+14.10
PT Sta. 340+45.28
SE = 5.1%

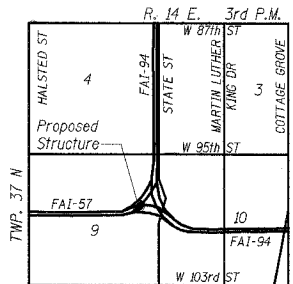
Prop. Curve NB5704

PI Sta. 235+20.23
 $\Delta = 56^\circ 09' 47" (LT)$
D = 2^\circ 57' 23"
T = 1,033.99'
R = 1,938.00'
L = 1,899.69'
E = 258.59'
PC Sta. 224+86.23
PT Sta. 243+85.92
SE = 5.5%

APPROVED FOR STRUCTURAL ADEQUACY ONLY

Robert L. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

SEAL	
<p>COMPANY: TENG & ASSOCIATES INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N MICHIGAN AVE. CHICAGO IL 60601</p> <p>SIGNATURE: NAME: BYRON DANLEY LICENSE NO.: 081-004737 LICENSE EXP.: November 30, 2006 DATE: October 10, 2005</p>	



LOCATION MAP

SHT. S-1

REVISIONS	DATE
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 57 (INTERSTATE 57)
BEAM & BEARING FABRICATION
I-57 NB OVER WB CONNECTOR
EXISTING SN 016-0072, PROPOSED SN 016-2852
STA. 238+73.54, COOK COUNTY, SECTION 2323.1F
GENERAL PLAN AND ELEVATION

DATE: 10/20/05

DRAWN BY: VV
CHECKED BY: RDS

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE., CHICAGO, IL 60601
TELEPHONE: 312.616.0000

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
57	2323.1F	COOK	011 4
STA.		TO STA.	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 62815

INDEX OF SHEETS

- COVER SHEET
- SUMMARY OF QUANTITIES & INDEX OF SHEETS
- S-001 GENERAL PLAN AND ELEVATION
- S-002 GENERAL NOTES, INDEX OF SHEETS, AND BILL OF MATERIAL
- S-003 CONSTRUCTION STAGING
- S-004 DECK ELEVATION PLAN
- S-005 TOP OF DECK ELEVATIONS
- S-006 DECK CROSS SECTION & SUPERSTRUCTURE DETAILS
- S-007 FRAMING PLAN
- S-008 STRUCTURAL STEEL DETAILS
- S-009 BEARING DETAILS

GENERAL NOTES

1. Fasteners shall be high strength bolts. Bolts 3/4" ϕ , open holes 15/16" ϕ , unless otherwise noted.
2. Calculated weight of Structural Steel:
M270 Grade 50 = 175,500 lbs
M270 Grade 36 = 33,000 lbs
3. The organic zinc rich primer/epoxy/urethane paint system shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception that masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the finish coat for the exterior and bottom flange of the fascia beams shall be reddish brown, Munsell No. 2.5YR 3/4. See Special Provision for "Cleaning and Painting New Metal Structures."
4. The structural steel bearing plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.
5. The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges and webs.
6. Plan dimensions and details relative to existing structures have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

TOTAL BILL OF MATERIAL		
Item	Unit	Total
FURNISHING STRUCTURAL STEEL	L SUM	1
FURNISHING ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	8
STORAGE OF ELASTOMERIC BEARING ASSEMBLIES	CAL DA	45
STORAGE OF STRUCTURAL STEEL	CAL DA	45

SHT. S-2

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 57 (INTERSTATE 57)
 BEAM & BEARING FABRICATION
 I-57 NB OVER WB CONNECTOR
 EXISTING SN 016-0072, PROPOSED SN 016-2852
 STA. 238+73.54, COOK COUNTY, SECTION 2323.1F
 GENERAL NOTES, INDEX OF SHEETS
 AND BILL OF MATERIAL

DATE: 10/20/05

DRAWN BY: VV
 CHECKED BY: RDS

TENG

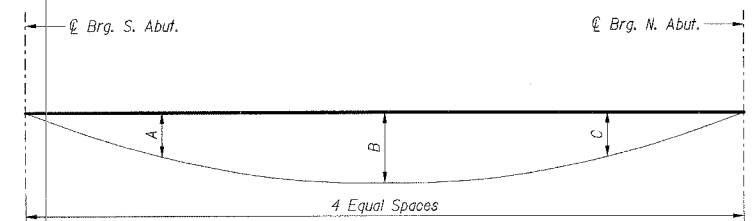
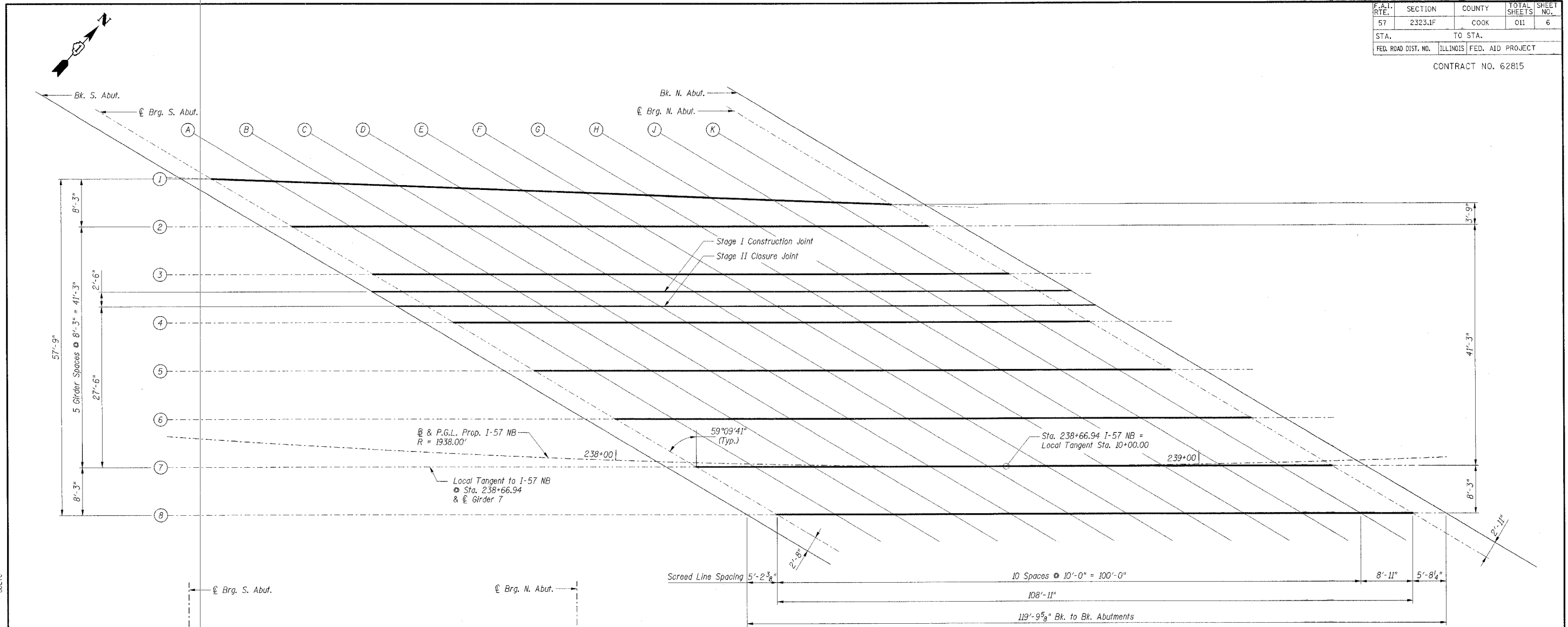
TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 205 N. MICHIGAN AVE., CHICAGO, IL 60601
 TELEPHONE: 312.467.0000

UDET C

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2323.1F	COOK	011	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 62815

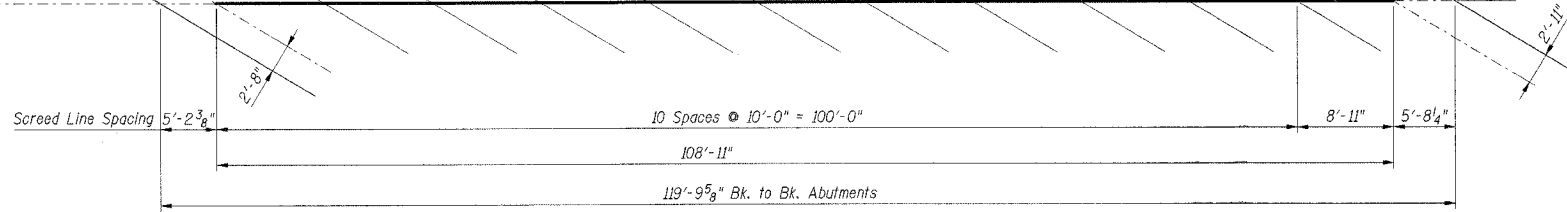


DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only.)

DEFLECTIONS

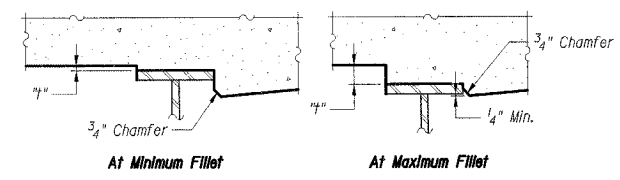
Girder	A	B	C
1	3 3/8"	4 3/4"	3 3/8"
2	3"	4 1/8"	3"
3	2 7/8"	4 1/8"	2 7/8"
4	2 5/8"	3 3/4"	2 5/8"
5	2 5/8"	3 5/8"	2 5/8"
6	2 3/4"	3 7/8"	2 3/4"
7	3"	4 1/4"	3"
8	3 1/8"	4 1/4"	3 1/8"

Note:
The above deflections are not to be used in the field if the Engineer is working from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown on Sht. S-5.



SCREED PLAN

Dimensions relative to Local Tangent



FILLET HEIGHTS

To determine "f": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sht. S-5, minus slab thickness, equals the fillet heights "f" above top flange of beams.

FOR INFORMATION ONLY
NOT PART OF THIS CONTRACT

- NOTES:**
1. Work this sheet with Sht. S-5.
 2. Closure joints shall be bonded.

SHT. S-4

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 57 (INTERSTATE 57)
BEAM & BEARING FABRICATION
I-57 NB OVER WB CONNECTOR
EXISTING SN 016-0072, PROPOSED SN 016-2852
STA. 238+73.54, COOK COUNTY, SECTION 2323.1F
DECK ELEVATION PLAN

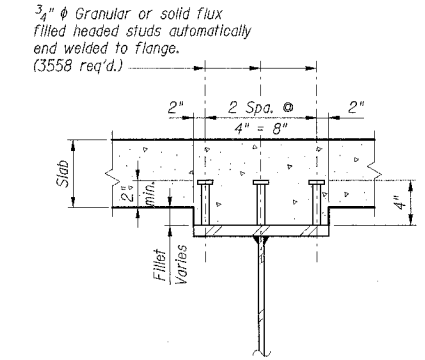
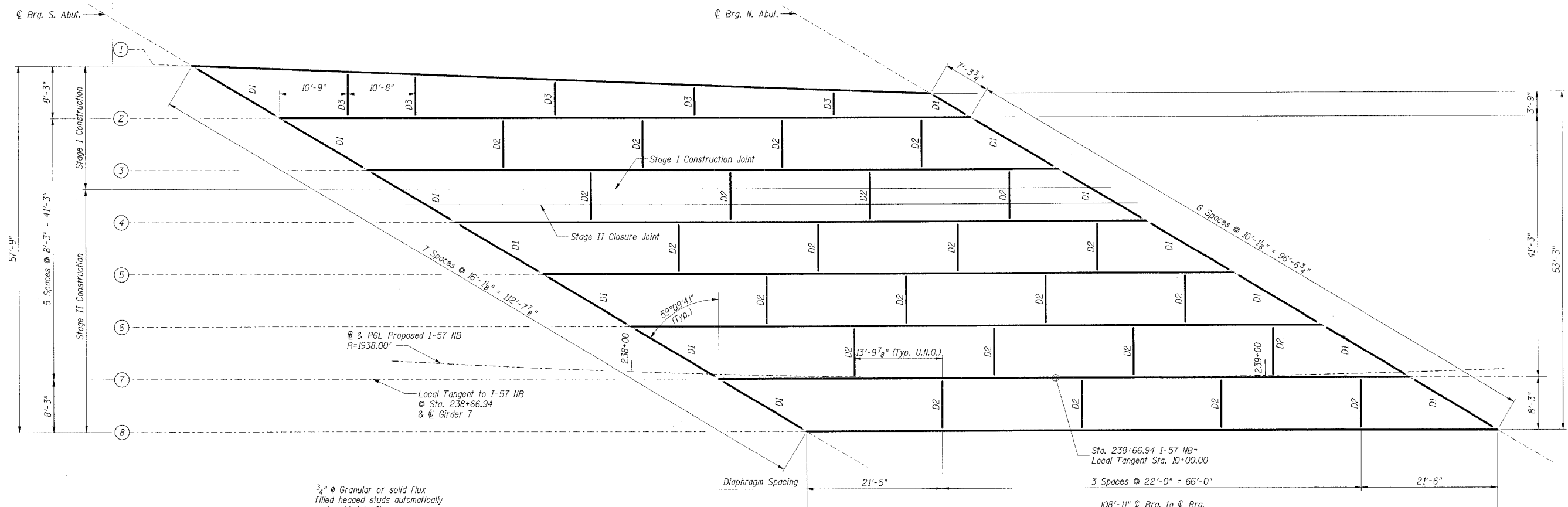
DATE: 10/20/05

DRAWN BY: VV
CHECKED BY: RDS

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
225 N. MICHIGAN AVE., CHICAGO, IL 60601
TELEPHONE: 312.467.0000

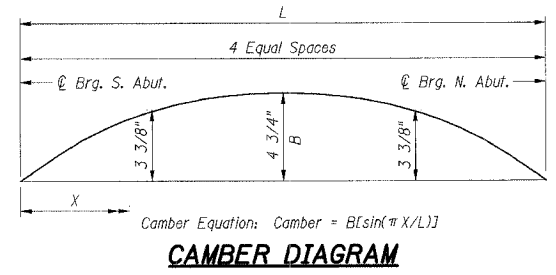
FOR INFORMATION ONLY

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Note A, to SHOP:
 Bearing stiffeners are shown with a 1:36:100 tilt away from vertical for the zero-load condition. Bearing stiffeners shall be vertical in the final condition which includes deflection due to weight of steel and deck concrete.

Note B, to FIELD:
 To fit up the steel, the Contractor shall anticipate the need to pull the tops of girders out of plumb. The tops of girders shall be pulled toward the east at the south abutment and toward the west at the north abutment. In conjunction, the end diaphragms shall be anticipated to fit up in a tilted position, with their tops toward the abutment backwall. Under steel self weight, the girder webs at centerline of bearing are predicted to have a tilt normal to the plane of the web of 1:50. The end diaphragms are predicted to have a tilt normal to the vertical plane through centerline of bearing of 1:40.

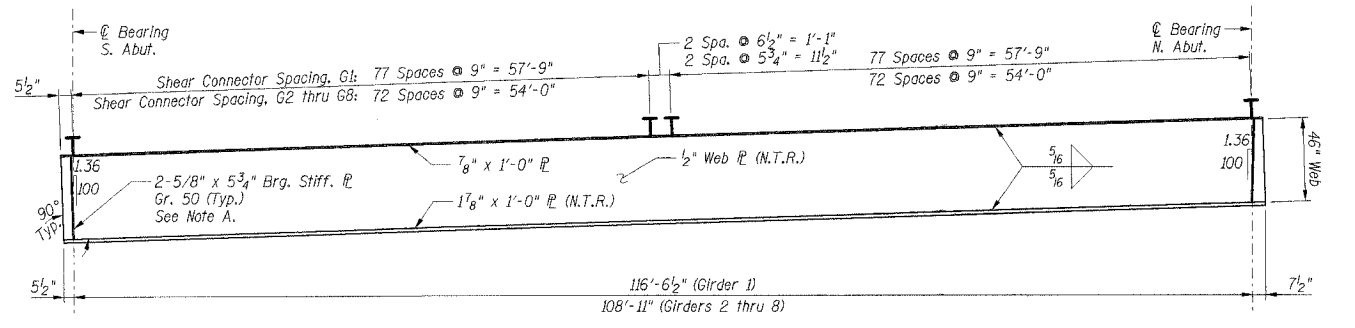


CAMBER DIAGRAM

*TOP OF WEB ELEVATIONS		
Girder	€ Bearing South Abut.	€ Bearing North Abut.
1	11.17	14.73
2	12.01	15.13
3	12.85	16.00
4	13.67	16.85
5	14.51	17.71
6	15.39	18.60
7	16.25	19.46
8	17.10	20.31

*For Fabrication Use Only

BEARING SEAT ELEVATIONS		
Girder	South Abut.	North Abut.
1	6.94	10.26
2	7.78	10.65
3	8.63	11.53
4	9.45	12.38
5	10.29	13.24
6	11.16	14.12
7	12.02	14.99
8	12.88	15.83



GIRDER ELEVATION

- Notes:**
- All Structural Steel shall be AASHTO M 270 Grade 50 except diaphragms, diaphragm connection plates, and fill plates which may be AASHTO M 270 Grade 36.
 - N.T.R. indicates steel subject to Supplemental Requirements for Notch Toughness (Zone 2).
 - For Diaphragm and Bearing Stiffener details see Sheet S-8.
 - Diaphragms D2 crossing stage construction line between girders 3 and 4 shall be installed according to Note A on Sht. S-8.
 - Structural Steel shall be fabricated and erected under separate contracts and shall be paid for according to the Special Provisions Furnishing Structural Steel and Elastomeric Bearings and Erecting Structural Steel and Elastomeric Bearings and Sections 503 and 505 of the Standard Specifications.
 - Stud Shear Connectors furnished and installed by the erection Contractor as part of the erection contract.

REVISIONS	
NAME	DATE
TCU	11/23/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 57 (INTERSTATE 57)
 BEAM & BEARING FABRICATION
 I-57 NB OVER WB CONNECTOR
 EXISTING SN 016-0072, PROPOSED SN 016-2852
 STA. 238+73.54, COOK COUNTY, SECTION 2323.1F
 FRAMING PLAN

DATE: 10/20/05

DRAWN BY: VV
 CHECKED BY: RDS

TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 200 N. MICHIGAN AVE., CHICAGO, IL 60602
 TEL: (312) 527-1000

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F.A.I. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2323.1F	COOK	011	10
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62B15

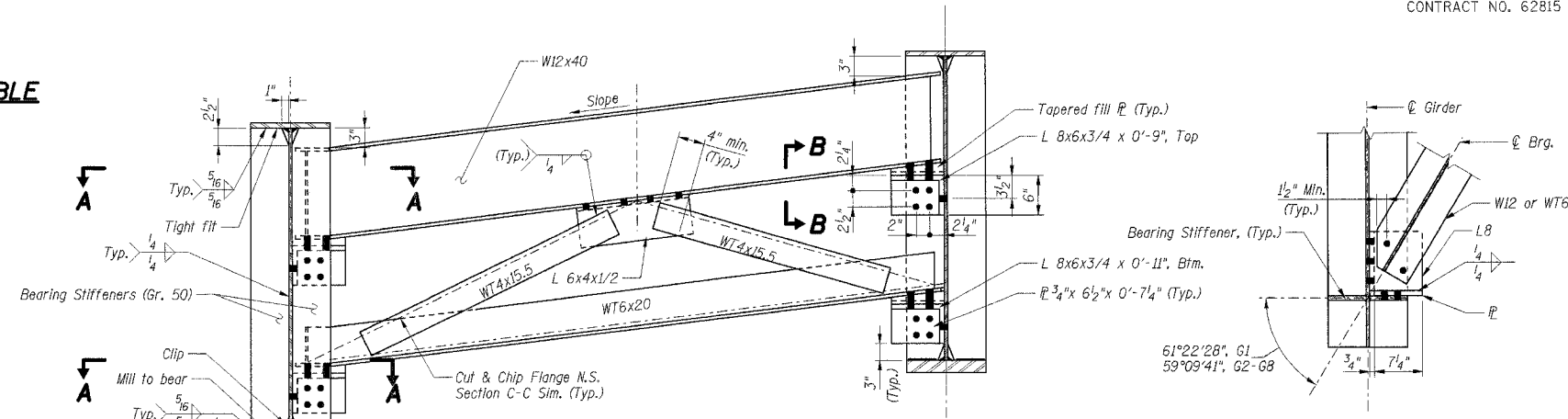
INTERIOR GIRDER MOMENT TABLE

	0.5 Span	
<i>I_s</i>	(in ⁴)	21,196
<i>I_c</i> (n)	(in ⁴)	55,883
<i>I_c</i> (3n)	(in ⁴)	40,325
<i>S_s</i>	(in ³)	1,079
<i>S_c</i> (n)	(in ³)	1,441
<i>S_c</i> (3n)	(in ³)	1,333
<i>Z</i>	(in ³)	
<i>DL</i>	(k-ft)	1,007
<i>M DL</i>	(k-ft)	1493.0
<i>sDL</i>	(k-ft)	0.642
<i>M sDL</i>	(k-ft)	951.9
<i>M LL</i>	(k-ft)	1259.8
<i>M (Imp)</i>	(k-ft)	270.9
5/3 [<i>M LL</i> + <i>M (Imp)</i>]	(k-ft)	2551.2
<i>M_a</i>	(k-ft)	6494.9
<i>M_u</i>	(k-ft)	7161
<i>f_s DL</i> (non-comp)	(ksi)	16.65
<i>f_s DL</i> (comp)	(ksi)	8.57
<i>f_s 5/3 [M LL + M (Imp)]</i>	(ksi)	21.25
<i>f_s (Overload)</i>	(ksi)	46.47
<i>f_s (Total)</i>	(ksi)	
<i>VR</i>	(k)	66

INTERIOR GIRDER REACTION TABLE

	N. or S. Abut.	
<i>R DL</i>	(k)	89.8
<i>R LL</i>	(k)	54.0
<i>Imp.</i>	(k)	11.6
<i>R (Total)</i>	(k)	155.4

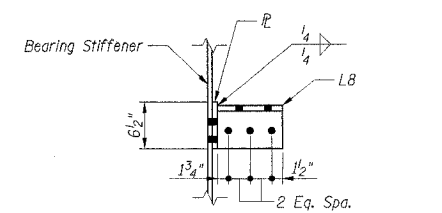
I_s and *S_s* are the moment of inertia and section modulus of the steel section used in computing *f_s* (Total & Overload).
I_{cw} and *S_{cw}* are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.
I_{c(3w)} and *S_{c(3w)}* are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (see AASHTO 10.38)
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_a (Applied Moment) = 1.3 [*M_{DL}* + *M_{sDL}* + 5/3 (*M_{LL}* + *M(Imp)*)].
The Plastic Moment capacity (*M_u*) is computed according to AASHTO 10.48.1 and 10.50.1.1.
f_s (Overload) is the sum of the stresses due to *M_{DL}* + *M_{sDL}* + 5/3 (*M_{LL}* + *M(Imp)*).
f_s (Total) (Non-compact section) is the sum of the stresses due to 1.3 [*M_{DL}* + *M_{sDL}* + 5/3 (*M_{LL}* + *M(Imp)*)].



DIAPHRAGM D1

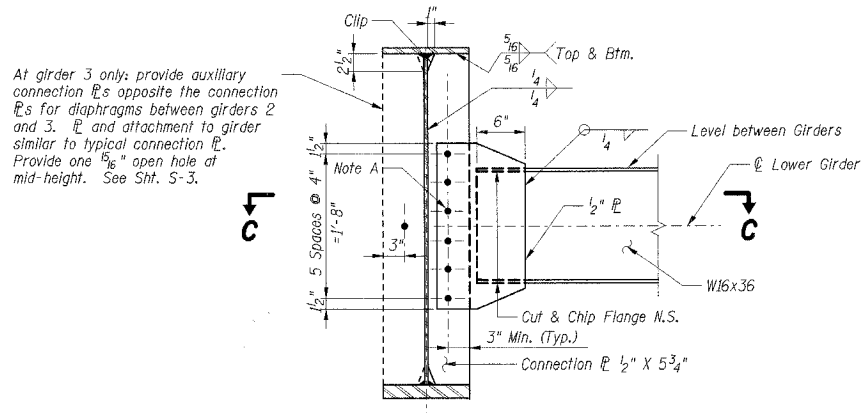
(14 Required)
See Note B.

SECTION A-A



SECTION B-B

(Tapered fill & W12 not shown)

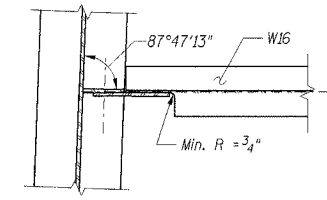


DIAPHRAGM D2 & D3

(Diaphragm D2 - 24 Required, Diaphragm D3 - 5 Required)

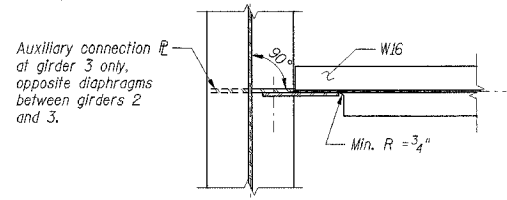
SECTION C-C

(Girder 1)



SECTION C-C

(Girders 2 thru 8)



Note A: Diaphragms D2 crossing the stage construction line between girders 3 and 4 shall be installed with one bolt snug tight at each end, to permit rotation during Stage II and closure pour deck casting. Diaphragm bolts at all other locations shall be fully tightened prior to deck casting. Install and fully tighten remaining bolts after placement of the Stage II closure pour.

Note B, To SHOP:
Detail diaphragm D1 members and connections for girders plumb in the final condition, which includes deflection due to weight of steel and deck concrete, with girder webs and bearing stiffeners vertical.

- Notes:**
- All steel shall be AASHTO M 270 Grade 50 except diaphragms, diaphragm connection plates, and fill plates which may be AASHTO M 270 Grade 36.
 - Two hardened washers shall be required over all oversize holes.
 - For Framing Plan see Sht. S-7.
 - Structural Steel shall be fabricated and erected under separate contracts and shall be paid for in accordance with the Special Provisions Furnishing Structural Steel and Elastomeric Bearings and Erecting Structural Steel and Elastomeric Bearings and Sections 503 and 505 of the Standard Specifications.

SHT. S-8

REVISIONS	
NAME	DATE
TCU	11/23/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 57 (INTERSTATE 57)
BEAM & BEARING FABRICATION
I-57 NB OVER WB CONNECTOR
EXISTING SN 016-0072, PROPOSED SN 016-2852
STA. 238+73.54, COOK COUNTY, SECTION 2323.1F
STRUCTURAL STEEL DETAILS

DATE: 10/20/05

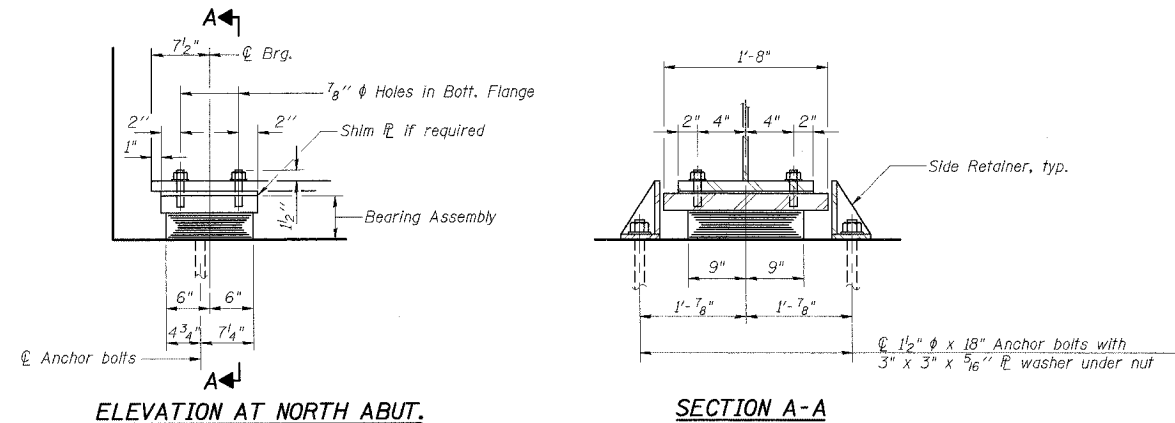
DRAWN BY: VV
CHECKED BY: RDS

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE., CHICAGO, IL 60601
TELEPHONE: 312.543.0000

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C:\DOCUMENTS\114644\STRUCT\03\114644.DWG, 11/23/05, 11:44:44
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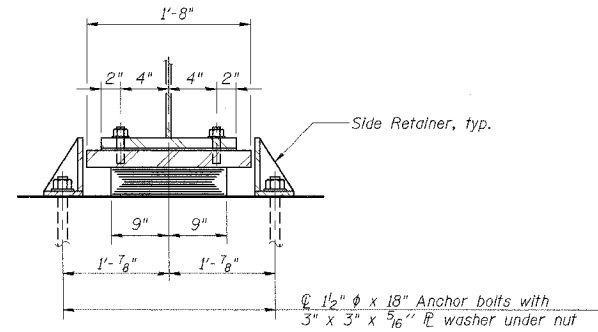
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2323.1F	COOK	011	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 62815

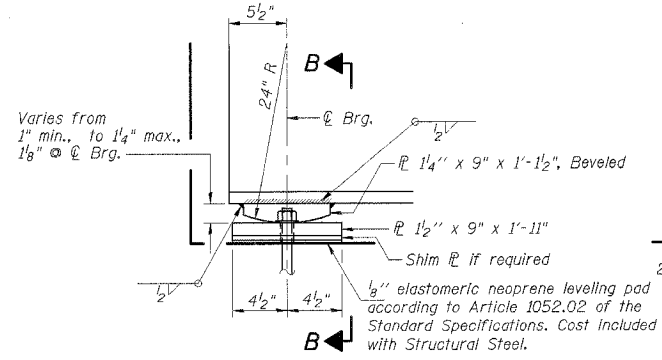


ELEVATION AT NORTH ABUT.

TYPE I ELASTOMERIC EXP. BRG.



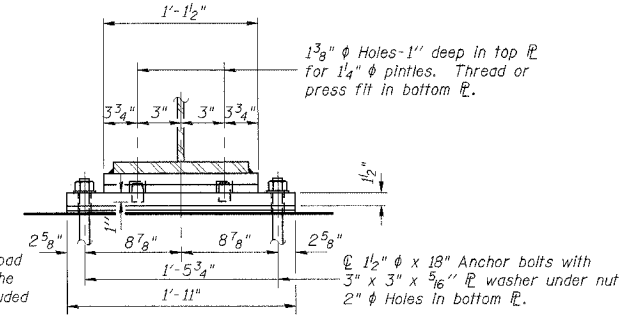
SECTION A-A



ELEVATION AT SOUTH ABUT.

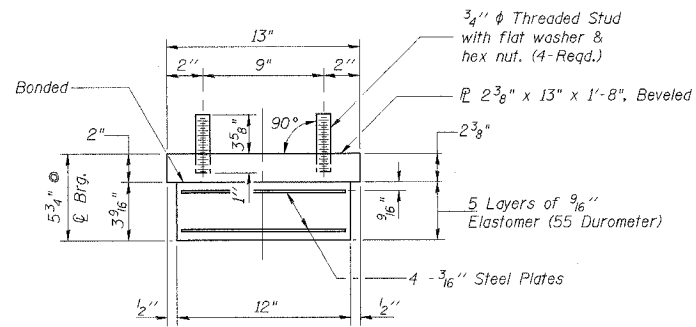
FIXED BEARING

No. Required = 8



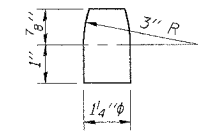
SECTION B-B

Notes: Anchor bolts at fixed bearings may be built into the masonry.

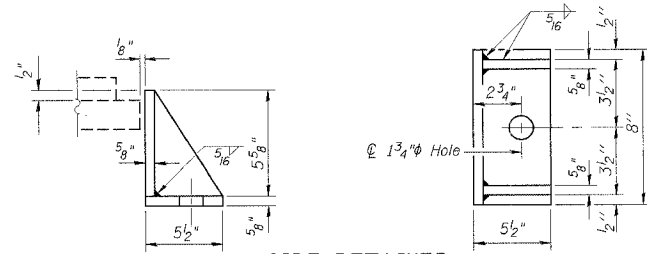


BEARING ASSEMBLY

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



PINTLE (M270, Gr. 50)



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.

BILL OF MATERIAL

Item	Unit	Total
Furnishing Elastomeric Bearing Assembly Type I	Each	8

- Notes:
- The orientation of the bearings in the field shall be coordinated with the slope of the girders.
 - All threaded studs shall be AASHTO M164 (A325).
 - All steel bearing plates shall be AASHTO M270 Grade 50.
 - The fixed steel bearings including the shim plates shall be included with Structural Steel.
 - Structural Steel and Elastomeric Bearings shall be fabricated and erected under separate contracts and shall be paid for according to the Special Provisions Furnishing Structural Steel and Elastomeric Bearings and Erecting Structural Steel and Elastomeric Bearings and Sections 503 and 505 of the Standard Specifications.
 - Anchor bolts furnished and installed by the erection Contractor as part of the erection contract.

SHT. S-9

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 57 (INTERSTATE 57)
 BEAM & BEARING FABRICATION
 I-57 NB OVER WB CONNECTOR
 EXISTING SN 016-0072, PROPOSED SN 016-2852
 STA. 238+73.54, COOK COUNTY, SECTION 2323.1F
 BEARING DETAILS

DATE: 10/20/05

DRAWN BY: VV
 CHECKED BY: RDS

TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 202 N. MICHIGAN AVE., CHICAGO, IL 60601
 TEL: 312/467-6000

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