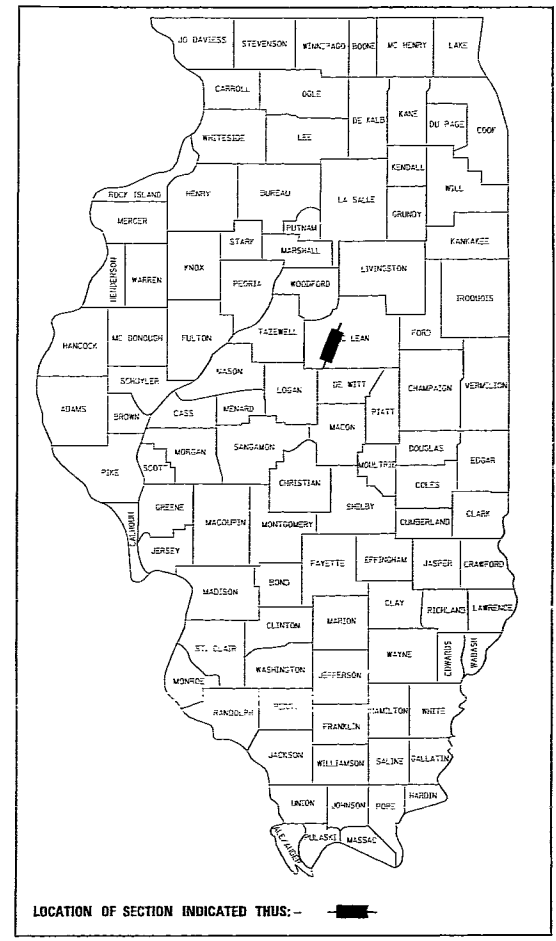


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	*	McLEAN	163	!
ILLINOIS				
*67-8, 57-9, 57-10) RS & I				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
F.A.I. 55 (I-55)
SECTION (57-8, 57-9, 57-10) RS & I
PROJECT IM-55-4 (I61)I4I
McLEAN COUNTY
C-93-043-00

INDEX OF SHEETS

SHEET NO.	TITLE
1.	COVER SHEET
2.	GENERAL NOTES & STANDARDS
3.-4.	SUMMARY OF QUANTITIES
5.-9.	TYPICAL SECTIONS
10.-13.	SCHEDULES
14.-44.	PLAN VIEW
45.-47.	PAVEMENT MARKING
48.-49.	RETAINING WALLS
50.-75.	S.N. 057-0154 & S.N. 057-0155
76.-84.	S.N. 057-0156
85.-109.	S.N. 057-0157 & S.N. 057-0158
110.-128.	S.N. 057-0159 & S.N. 057-0160
129.-135. B	DETAILS
136.-163.	CROSS SECTIONS



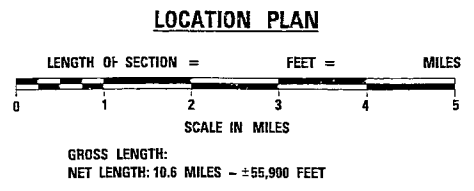
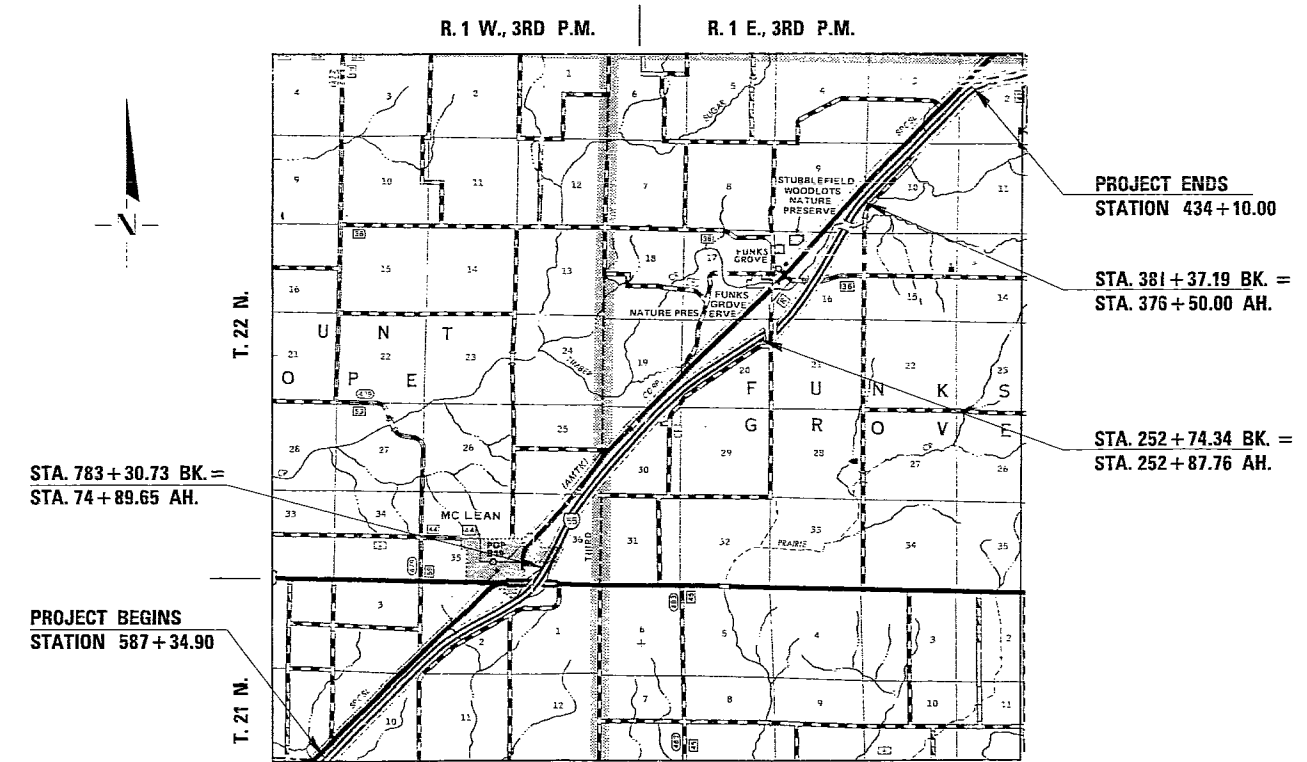
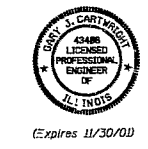
2001 ADT = 25,100
 P.C. = 73.1% S.U. = 2.6% M.U. = 24.3%
 DESIGN DESIGNATION - INTERSTATE

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

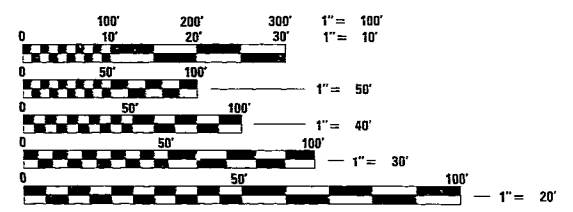
SUBMITTED JANUARY 9, 2000
James J. Jurek
 DISTRICT ENGINEER

ENGINEER OF PROJECT DEVELOPMENT AND IMPLEMENTATION
February 2, 2000
Michael Blinn
 ENGINEER OF DESIGN AND ENVIRONMENT

ENGINEER OF DESIGN AND ENVIRONMENT
February 2, 2000
James P. Stiles
 DIRECTOR, DIVISION OF HIGHWAYS



Ozyurt and Stone, Inc.
 CONSULTING ENGINEERS
 SPRINGFIELD, IL.



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

PROJECT ENGR: RAY MULHOLLAND UNIT CHIEF: MARIE VERDINE
 FUNKS GROVE TOWNSHIP, MOUNT HOPE TOWNSHIP
CONTRACT NO. 86992

Gary J. Cartwright 1/15/00
 ILLINOIS PROFESSIONAL NO. 43408

EXISTING STRUCTURE #'S 057-0157 & 057-0158:

Dual Structures composed of three span continuous Haunched R.C. Tee-Beam Main Spans with P.P.C. I-Bm. Approach Spans on Pile supported R.C. Vaulted Abutments & Piers.

EXISTING BENCHMARK INFORMATION:

BM #1: East Top Cap of Pier 1 of S.N. 057-0158.
Assumed BM. Elev. = 706.76 = Plan Elev.

BM #2: West Top Cap of Pier 2 of S.N. 057-0157
Assumed BM. Elev. = 706.76 = Plan Elev.

Concrete Removal (Typ.)
for Exp. Jt. Replacement
See Sheets 3 & 4.

Existing Shoulder
Barrier Wall

Fascia Beam Repairs
See Sheets 14 & 15.

Pier and Abutment
Repairs See Sheet 18
thru 25

Replace Rocker Exp.
Brgs. @ Abuts.
See Sheet 16.

See Sheet 9
for P.J.S. Expansion
Jt. Details.

See Sheets 3 & 5
for Deck Patching
& Repairs.
S.N. 057-0157

See Sheet 3
for Concrete Barrier
Details.

Bk. N. Appr. Bent.
Sta. 298+97.45

See Sheet 10
for P.J.S. Expansion
Jt. Details

See Sheet 4
for Concrete Barrier
Details.

PROPOSED REHABILITATION WORK

1. Remove bituminous wearing surface and waterproofing membrane system from decks.
2. Scarify the deck surfaces to a depth of 0.50 inches.
3. Repair decks as required (Deck Slab Repair Partial & Full Depth).
4. Overlay the decks with a 2.25 inch depth microsilica concrete overlay.
5. Remove and Replace P.J.S. expansion joints at abutments
6. Repair concrete parapet spill areas and replace sealant at parapet cork expansion joints.
7. Repair cracks and delaminated edges of concrete fascia beams of main spans (Epoxy Crack Sealing & Formed Concrete Repair).
8. Replace main span abutment rocker expansion bearings with elastomeric bearings.
9. Clean substructure bearing seats and exposed wall areas of bird excrement (Bridge Washing (Special))
10. Repair cracks and spalled areas of abutments and piers (Epoxy Crack Sealing & Formed Concrete Repair).
11. Install bird access control measures at structure gaps to restrict entry to bearing area vaults at abutments and piers.
12. Construct concrete slopewall and replace deteriorated gutter at the south abutments.
13. Repair abutment vault interior slope erosion along exposed wall footings
14. Seal openings between shoulder pavements and concrete barrier at approach bents.

INDEX OF SHEETS

1. General Plan & Elevation
2. General Notes & Summary of Quantities
3. Deck Repair Plan - 0157 Main & Appr.
4. Deck Repair Plan - 0158 Main & Appr.
5. Deck Details - 0157
6. Deck Details - 0158
7. Stage Construction - 0157
8. Stage Construction - 0158
9. Expansion Joint Details - 0157
10. Expansion Joint Details - 0158
11. Bar Splice Assembly Details
12. Underside Deck Repair Plans - 0157
13. Underside Deck Repair Plans - 0158
14. Fascia Beam Repairs - 0157
15. Fascia Beam Repairs - 0158
16. Bearing Details - 0157 & 0158
17. Anchor Bolt Details
18. South Abutment Repairs - 0157
19. North Abutment Repairs - 0157
20. Pier 1 Repairs - 0157
21. Pier 2 Repairs - 0157
22. South Abutment Repairs - 0158
23. North Abutment Repairs - 0158
24. Pier 1 Repairs - 0158
25. Pier 2 Repairs - 0158

DESIGN STRESSES & LOADING (ORIGINAL CONST.)

Live Load HS20-44 (1969 AASHTO Specification) & Alt.
Dead Load included additional 25 p.s.f. for future wearing surface.

$f_c = 1,400$ p.s.i. (Substructure & (GM) Parapet)
 $v_c = 75$ p.s.i. (Footings)
 $f_s = 20,000$ p.s.i. (Reinf. Bars Field)
 $n_s = 10$

$f_c = 5,000$ p.s.i.
 $f_{ai} = 4000$ p.s.i.
 $f_s = 248,000$ p.s.i. strands
 $f_{st} = 173,600$ p.s.i. strands

**NEW CONSTRUCTION
DESIGN SPECIFICATIONS**

1996 AASHTO & INTERIMS

LOADING HS 20 & ALT.

$f_c = 1,400$ p.s.i. (Concrete)
 $f_s = 24,000$ p.s.i. (Reinforcement Bars)
 $f_s = 20,000$ p.s.i. (Structural Steel)



Expires 11/30/02

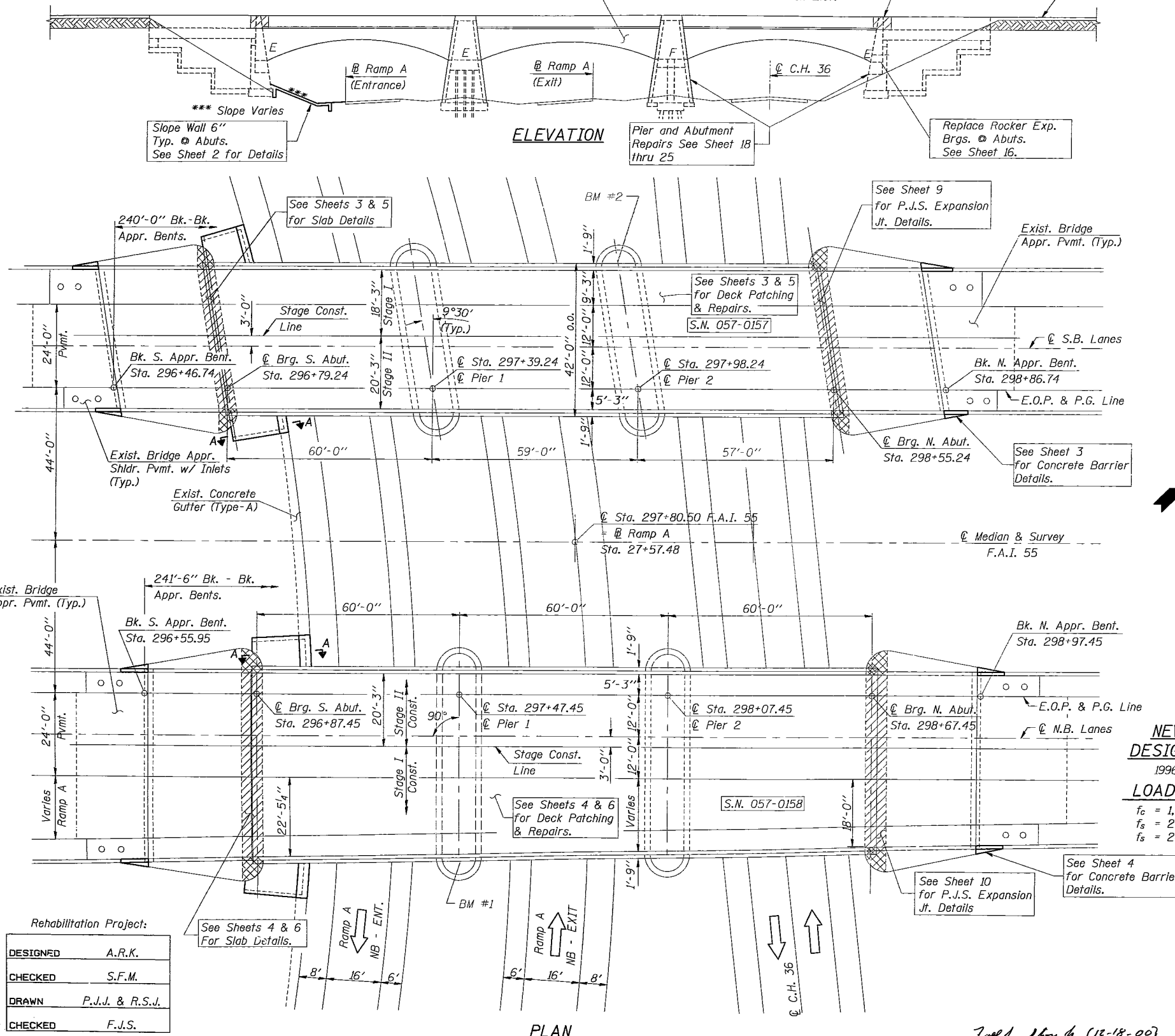
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN & ELEVATION
F.A.I. 55 OVER C.H. 36 & RAMP A
SECTION (57-8, 57-9, 57-10) RS & I
McLEAN COUNTY
STA. 297+80.50
S.N.057-0157 & S.N. 057-0158

511 WEST CAPITOL
SPRINGFIELD, IL 62704
(217) 528-2958

Ozyurt and Stone, Inc.
CONSULTING ENGINEERS

JOB #: 9931.4
FILE: GPE.DWG
DATE: 11-27-00



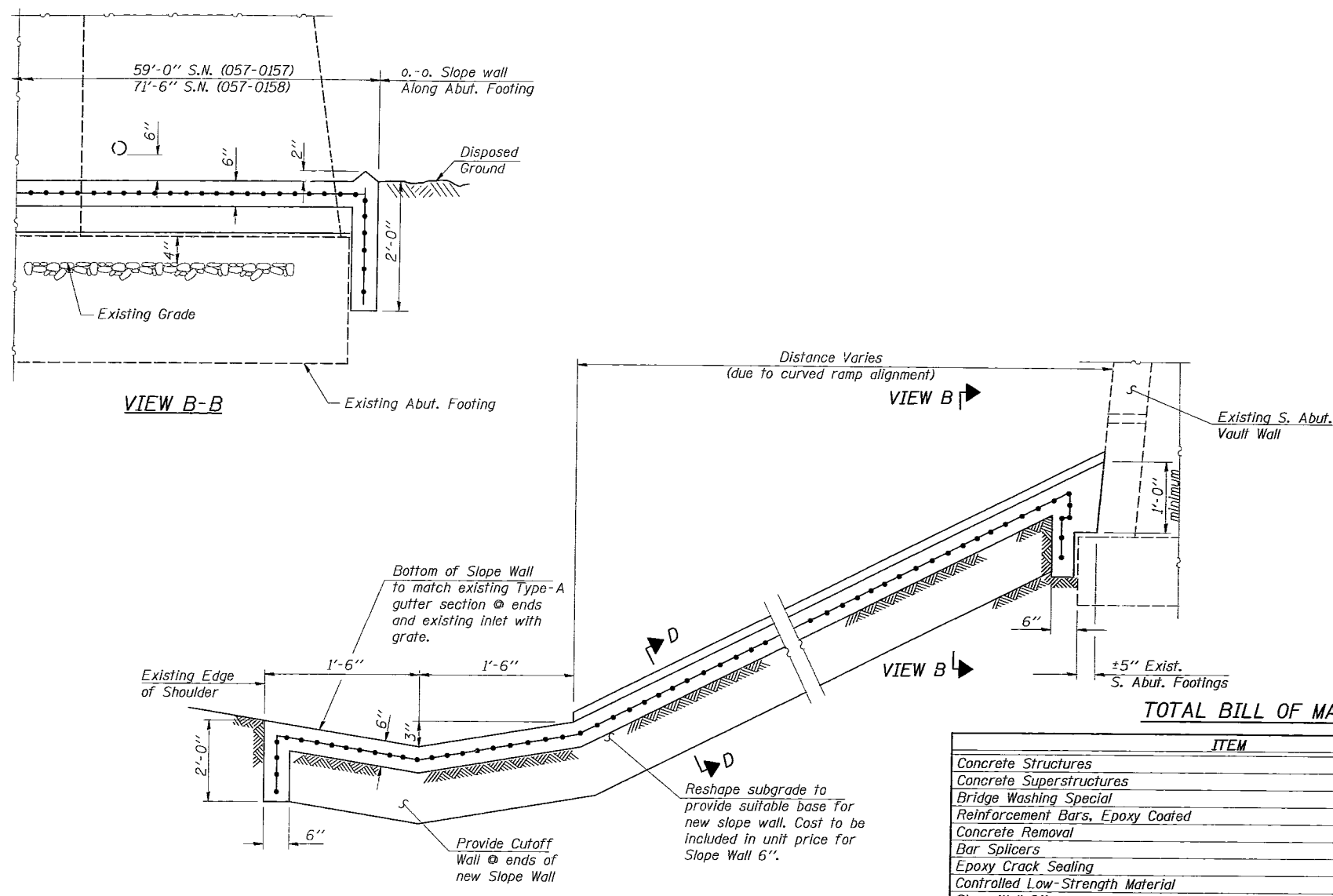
Rehabilitation Project:

DESIGNED	A.R.K.
CHECKED	S.F.M.
DRAWN	P.J.J. & R.S.J.
CHECKED	F.J.S.

7/20/01 J.S. (12-18-00)
ILLINOIS STRUCTURAL NO. 2934

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	**	McLEAN	163	86
ROAD DISTRICT		ILLINOIS		

** (57-8, 57-9, 57-10) RS & I
 Sheet 2 of 25
 S.N.'s 057-0157 & 057-0158



GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M 31, M 42 or M 53 Grade 60.

Slope wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

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 the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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 operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost is included in "Concrete Removal".

Joint openings shall be adjusted according to Article 503.10(c) of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.

Existing Structural Steel shall only be cleaned and painted as required by the Special Provision "Cleaning and Painting Adjacent Area of Existing Steel Structures". Cost included with Furnishing and Erecting Structural Steel.

All new structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1.

Bridge Seat Sealer shall be applied to substructure bearing seats following cleaning operations as specified in Special Provision "Bridge Washing Special".

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

For Type I Elastomeric Bearings, two 1/8" adjusting shims of the dimensions of the top bearing plate shall be provided in addition to all other plates and shims and placed as detailed.

Calculated weight of structural steel is
 6,490 # @ S.N. 057-0157
 8,490 # @ S.N. 057-0158

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Structures	Cu Yd		13.4	13.4
Concrete Superstructures	Cu Yd	40.6		40.6
Bridge Washing Special	Each		2	2
Reinforcement Bars, Epoxy Coated	Pound	5960		5960
Concrete Removal	Cu Yd	35.8	13.4	49.2
Bar Splicers	Each	80		80
Epoxy Crack Sealing	Foot	249	145	394
Controlled Low-Strength Material	Cu Yd		32	32
Slope Wall 6"	Sq Yd		217	217
Preformed Joint Seal 2 1/2"	Foot	89		89
Preformed Joint Seal 4"	Foot	93		93
Elastomeric Bearing Assembly, Type I	Each	28		28
Formed Concrete Repair (Depth Equal or Less Than 5")	Sq Ft	58	17	75
Formed Concrete Repair (Depth Greater Than 5")	Sq Ft	2		2
Bridge Deck Microsilica Concrete Overlay 2 1/4"	Sq Yd	2249		2249
Jack and Remove Existing Bearings	Each	28		28
Furnishing and Erecting Structural Steel	Pound	14980		14980
Deck Slab Repair (Partial)	Sq Yd	340		340
Bridge Deck Grooving	Sq Yd	2232		2232
Concrete Barrier Removal	Foot			80
Stabilized Sub Base 4"	Sq Yd			26
Concrete Barrier, Single Face (Special)	Foot			80
Bituminous Concrete Removal (Deck)	Sq Yd	2352		2352
Bridge Seat Sealer	Sq Ft		1068	1068
Concrete Bridge Deck Scarification - 1/2"	Sq Yd	2352		2352
Protective Coat	Sq Yd	165		165

Rehabilitation Project:

DESIGNED	A.R.K.
CHECKED	S.F.M.
DRAWN	R.S.J.
CHECKED	A.R.K. & F.J.S.

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL NOTES & SUMMARY OF QUANTITIES
 F.A.I. 55 OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10) RS&I
 McLEAN COUNTY
 STA. 297+80.50
 S.N.'s 057-0157 & 057-0158

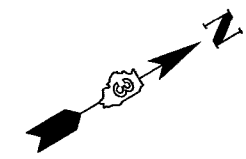
REVISIONS	
NAME	DATE

511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958
Ozyurt and Stone, Inc. CONSULTING ENGINEERS
 JOB #: 99314
 FILE: SLOPEWALL.DGN
 DATE: 11-27-00

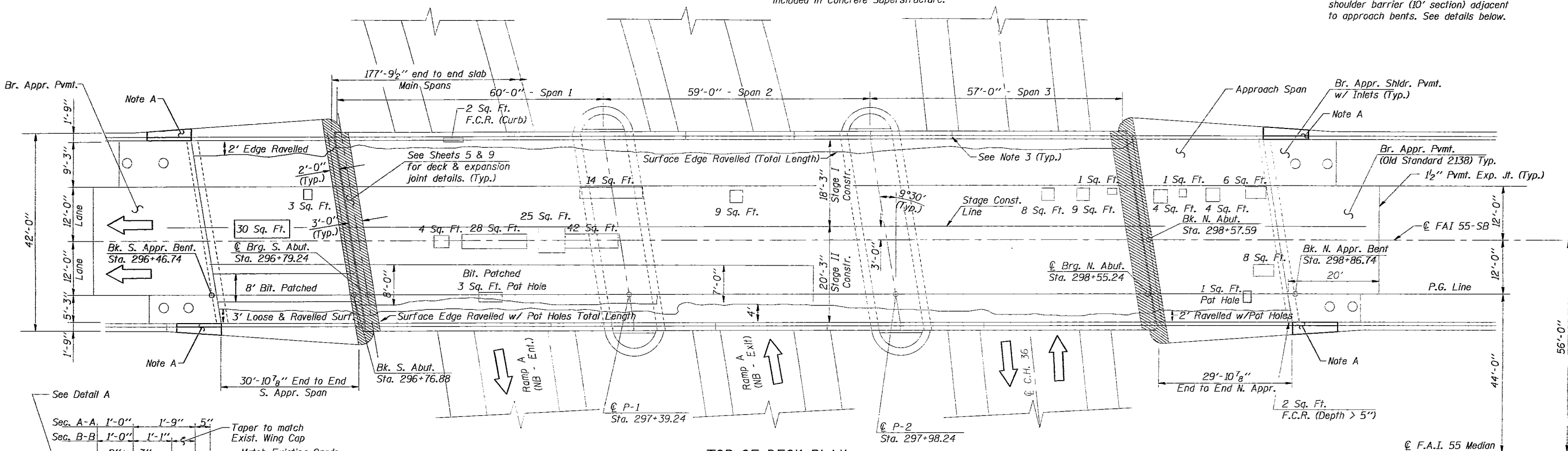
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	*	McLEAN	163	87
ROAD DISTRICT		ILLINOIS		

** (57-8, 57-9, 57-10) RS & I
Sheet 3 of 25
 S.N.'s 057-0157 & 057-0158

- Notes:
- Existing Bituminous Surface in all spans map cracked with rutted wheel paths. Surface ravelling along curb is common.
 - Entire Deck to be overlaid with 2 1/4" Microsilica concrete. Existing deck to be scarified 1/2" depth.
 - All parapet Cork Joints shall be cleaned of brittle sealant and resealed with new compound. Cast shall be included in Concrete Superstructure.



Note A:
 Remove and replace Existing Concrete shoulder barrier (10' section) adjacent to approach bents. See details below.

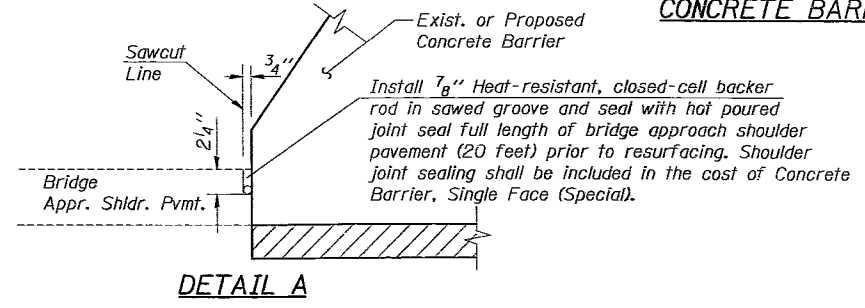
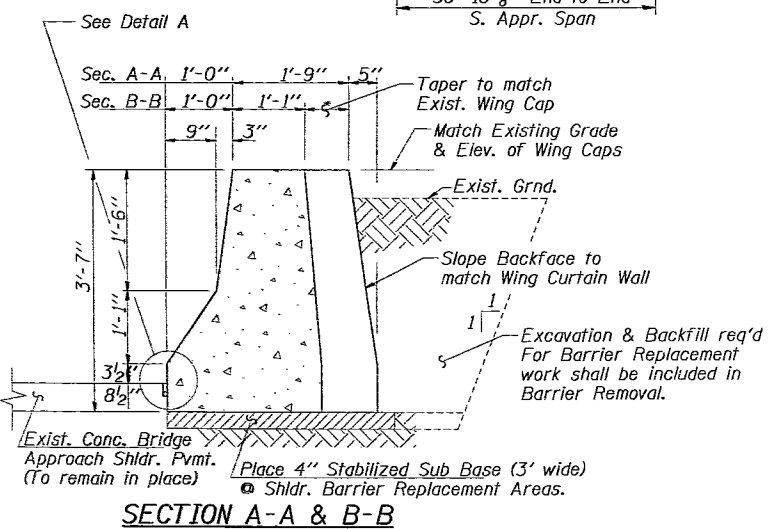
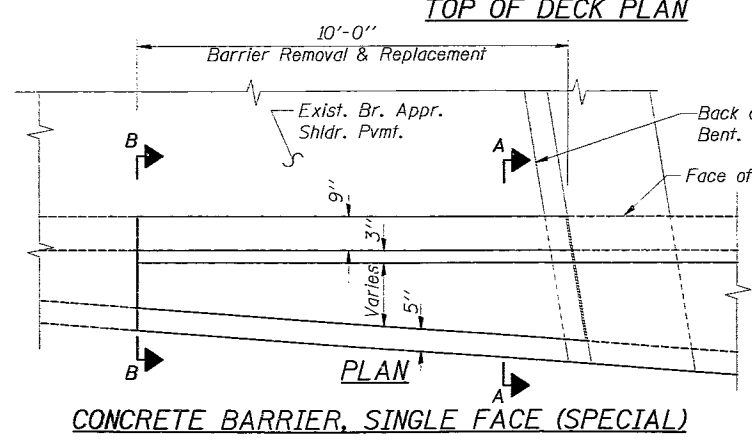


DECK REPAIR - QUANTITY SUMMARY

ITEM	QUANTITY
Deck Slab Repair (Partial)	201 Sq. Yd.
Bituminous Concrete Removal (Deck)	1021 Sq. Yd.
Concrete Bridge Deck Scarification 1/2"	1021 Sq. Yd.
Bridge Deck Microsilica Concrete overlay 2 1/4"	977 Sq. Yd.
Bridge Deck Grooving	962 Sq. Yd.
Formed Concrete Repair (Depth ≤ 5")	2 Sq. Ft.
Concrete Barrier, Single Face (Special)	40 Foot
Stabilized Sub Base 4"	13 Sq. Yd.
Concrete Barrier Removal	40 Foot
Formed Concrete Repair (Depth > 5")	2 Sq. Ft.

LEGEND

- Deck Survey Date 7-18-00
- Deck Slab Repair (Partial)
- ▨ Concrete Removal
- C.P. Cold Patched
- F.C.R. Formed Concrete Repair (Depth ≤ 5") Area



NOTE: DECK REPAIR AREAS SHOWN ARE ESTIMATED FROM SURVEY WORK (7-18-00). ACTUAL LOCATIONS OF REPAIRS MADE SHALL BE SHOWN BY THE ENGINEER ON AS-BUILT PLANS.

REVISIONS	
NAME	DATE

Rehabilitation Project

DESIGNED	A.R.K.
CHECKED	S.F.M.
DRAWN	P.J.J.
CHECKED	A.R.K. & F.J.S.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK REPAIR PLAN
 F.A.I. 55 OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10) RS & I
 McLEAN COUNTY
 STA. 297+80.50
 S.N. 057-0157

DATE: _____ DRAWN BY: _____
 CHECKED BY: _____

511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958
Ozyurt and Stone, Inc.
 CONSULTING ENGINEERS

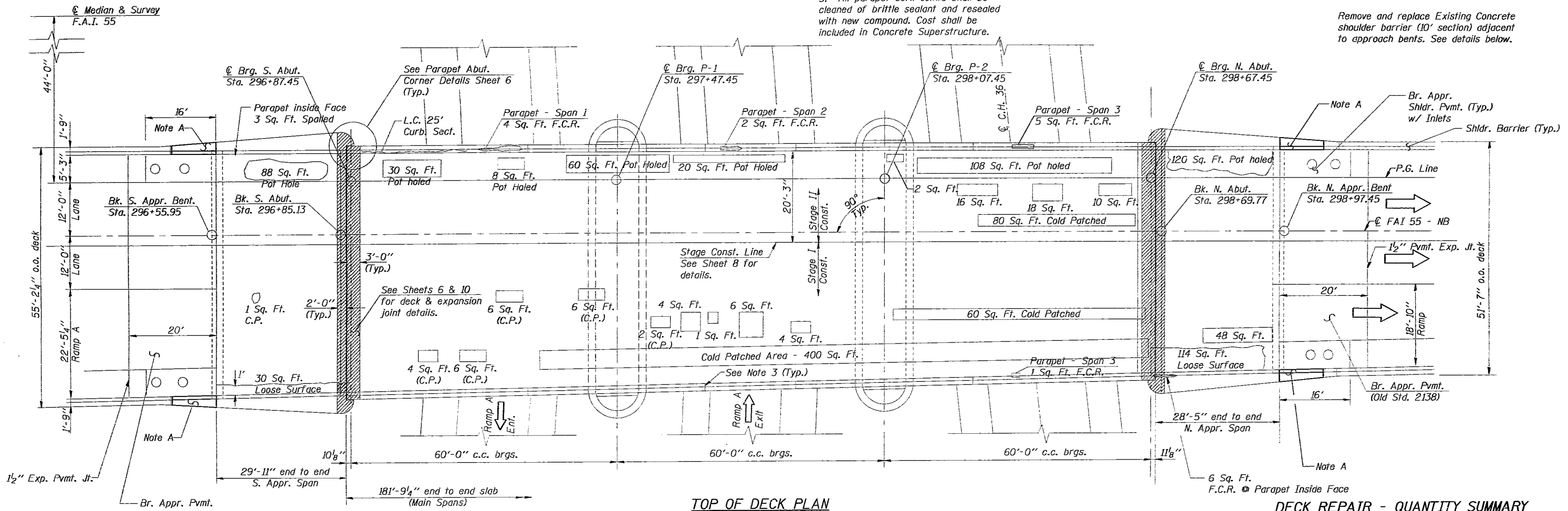
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 DATE: 11-27-00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	**	McLEAN	163	88

ROAD DISTRICT ILLINOIS
 ** (57-8, 57-9, 57-10) RS & I
Sheet 4 of 25
S.N.'s 057-0157 & 057-0158

- Notes:
- Existing Bituminous Surface in all spans map cracked with rutted wheel paths. Surface ravelling along curb is common.
 - Entire Deck to be overlaid with 2 1/4" Microsilica concrete. Existing deck to be scarified 1/2" depth.
 - All parapet Cork Joints shall be cleaned of brittle sealant and resealed with new compound. Cost shall be included in Concrete Superstructure.

Note A:
 Remove and replace Existing Concrete shoulder barrier (10' section) adjacent to approach bents. See details below.

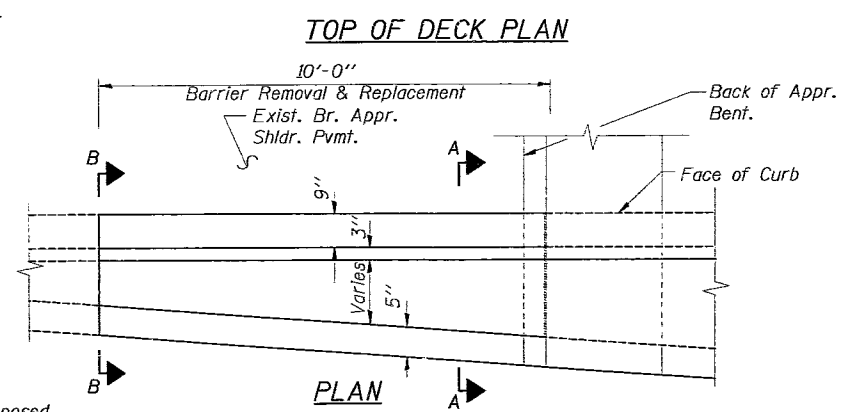


DECK REPAIR - QUANTITY SUMMARY

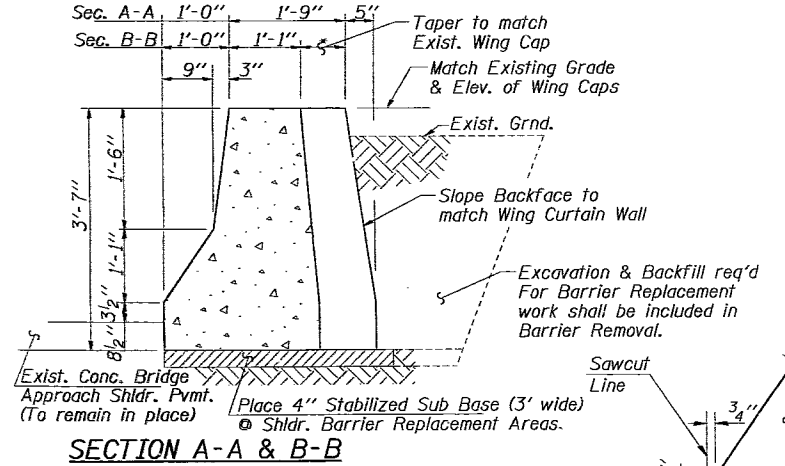
ITEM	QUANTITY
Deck Slab Repair (Partial)	139 Sq. Yd.
Bituminous Concrete Removal (Deck)	1331 Sq. Yd.
Concrete Bridge Deck Scarification 1/2"	1331 Sq. Yd.
Bridge Deck Microsilica Concrete overlay 2 1/4"	1272 Sq. Yd.
Bridge Deck Grooving	1270 Sq. Yd.
Formed Concrete Repair (Depth = 5")	21 Sq. Ft.
Epoxy Crack Sealing	25 Foot
Concrete Barrier Removal	40 Foot
Stabilized Sub Base 4"	13 Sq. Yd.
Concrete Barrier, Single Face (Special)	40 Foot

LEGEND

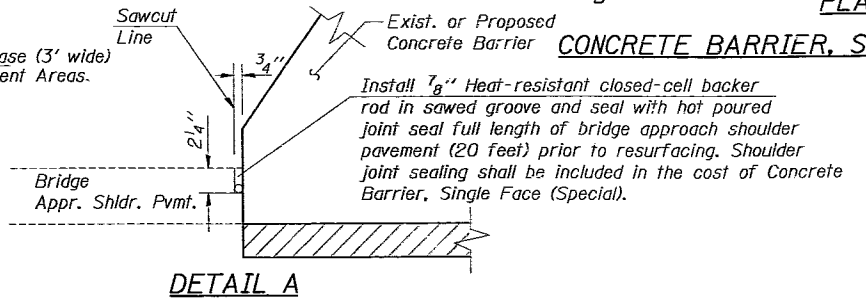
- Deck Survey Date 7-18-00
- Deck Slab Repair (Partial)
- ▨ Concrete Removal
- C-6/ Crack, width > 1/16"
- L.C.-6/ Leached Crack, width > 1/16"
- C.P. Cold Patched
- F.C.R. Formed Concrete Repair (Depth = 5") Area
- Epoxy Crack Sealing



CONCRETE BARRIER, SINGLE FACE (SPECIAL)



SECTION A-A & B-B



DETAIL A

NOTE: DECK REPAIR AREAS SHOWN ARE ESTIMATED FROM SURVEY WORK (7-18-00). ACTUAL LOCATIONS OF REPAIRS MADE SHALL BE SHOWN BY THE ENGINEER ON AS-BUILT PLANS.

REVISIONS	
NAME	DATE

DESIGNED	A.R.K.
CHECKED	S.F.M.
DRAWN	P.J.J.
CHECKED	A.R.K. & F.J.S.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK REPAIR PLAN
 F.A.I. 55 OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10) RS & I
 McLEAN COUNTY
 STA. 297+80.50
 S.N. 057-0158

DRAWN BY: _____
 CHECKED BY: _____

DATE: _____

511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958

Ozyurt and Stone, Inc.
 CONSULTING ENGINEERS

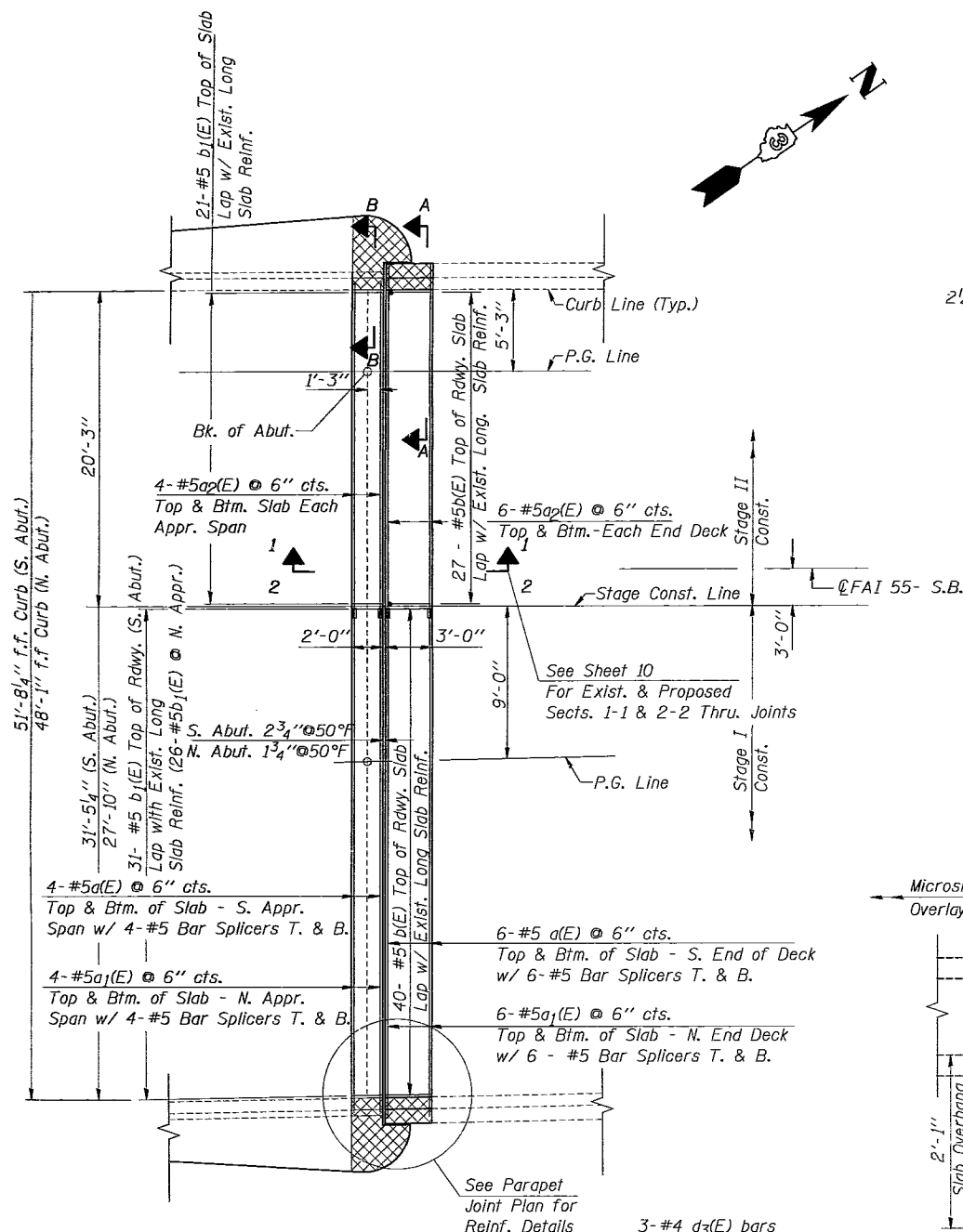
JOB #: 99314
 FILE: DECKPLN158.DGN
 DATE: 11-27-00

FOR SECT. A-A & SECT. B-B
 *** Match Existing Slab Overhang

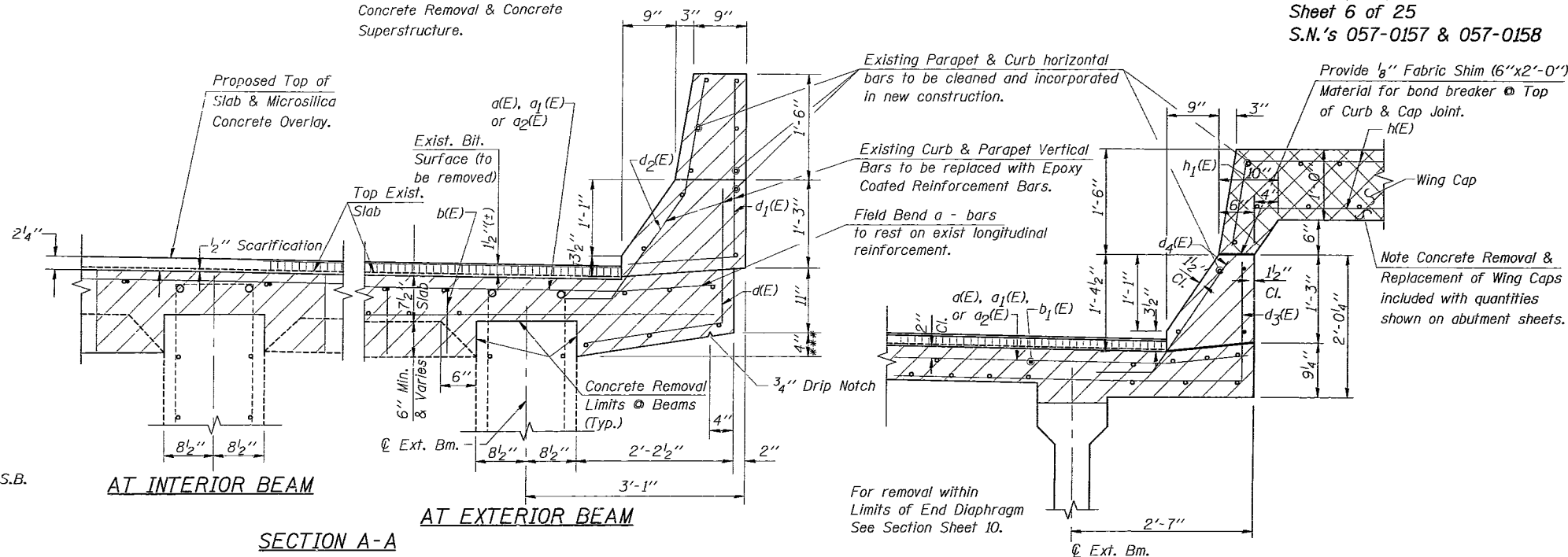
Hatched Area Indicates
 Concrete Removal & Concrete
 Superstructure.

FAI RTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	**	McLEAN	163	90

FED. RD. DIST. NO. ILLINOIS FED. AID PROJECT
 ** (57-8, 57-9, 57-10) RS & I
 Sheet 6 of 25
 S.N.'s 057-0157 & 057-0158



JOINT REINFORCEMENT PLAN
 S. Abut. Shown



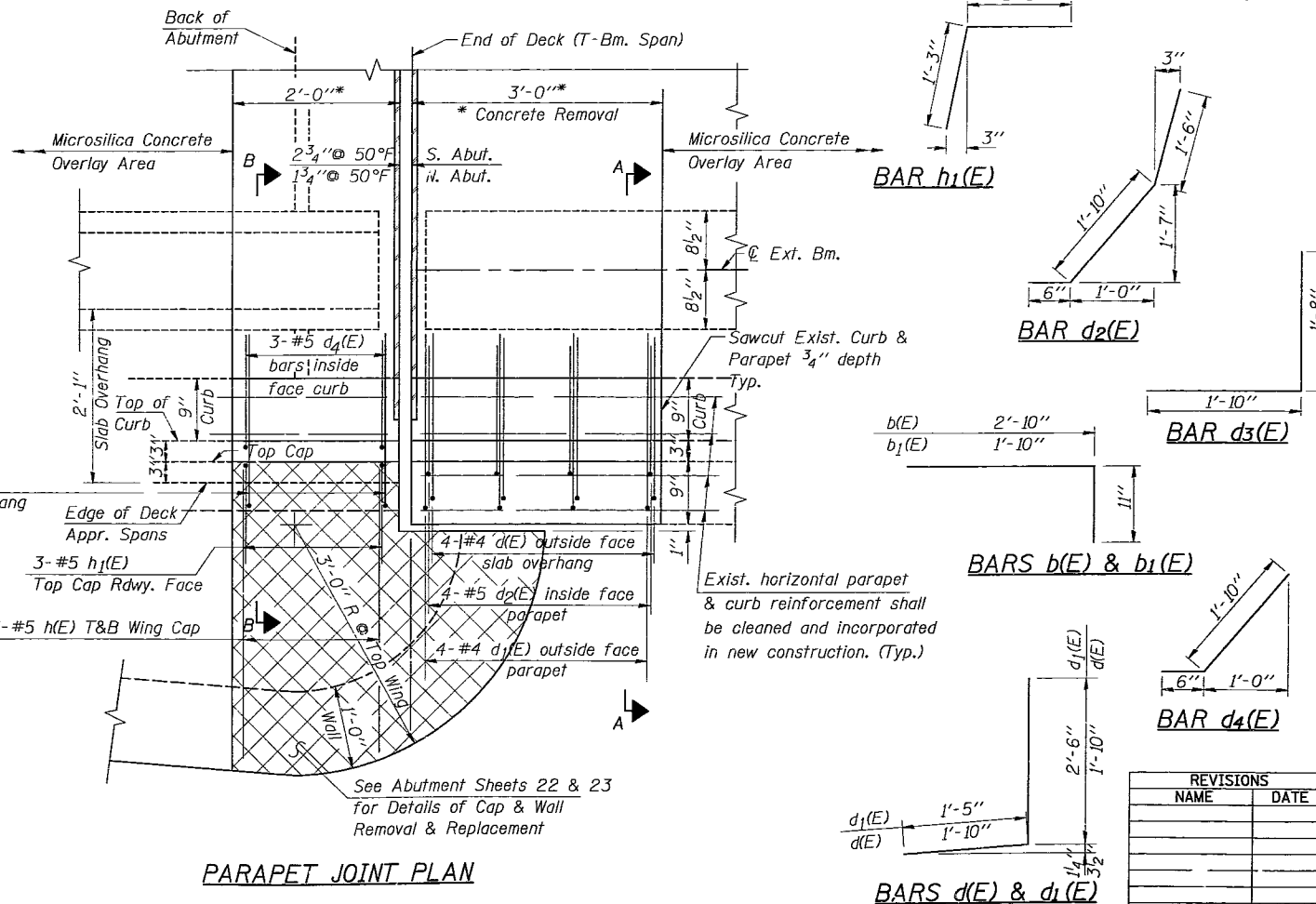
AT INTERIOR BEAM

AT EXTERIOR BEAM

SECTION A-A

SECTION B-B

(Showing Removal Beyond End Diaphragm)



PARAPET JOINT PLAN

**SUPERSTRUCTURE
 BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
d(E)	20	#5	32'-10"	
d1(E)	20	#5	29'-3"	
d2(E)	40	#5	21'-8"	
b(E)	134	#5	3'-9"	
b1(E)	99	#5	2'-9"	
d(E)	16	#4	3'-8"	
d1(E)	16	#4	3'-11"	
d2(E)	16	#5	3'-10"	
d3(E)	12	#4	3'-6"	
d4(E)	12	#5	2'-4"	
h(E)	24	#5	3'-6"	
h1(E)	12	#5	2'-6"	
Concrete Removal			Cu. Yd.	19.7
Concrete Superstructure			Cu. Yd.	22.4
Reinforcement Bars, Epoxy Coated			Pound	3330
Bar Splicers			Each	40
Protective Coat			Sq. Yd.	88

Work this sheet with sheets 4 & 10.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK DETAILS
 F.A.I. 55 OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10) RS & I
 McLEAN COUNTY
 STA. 297+80.50
 S.N. 057-0158

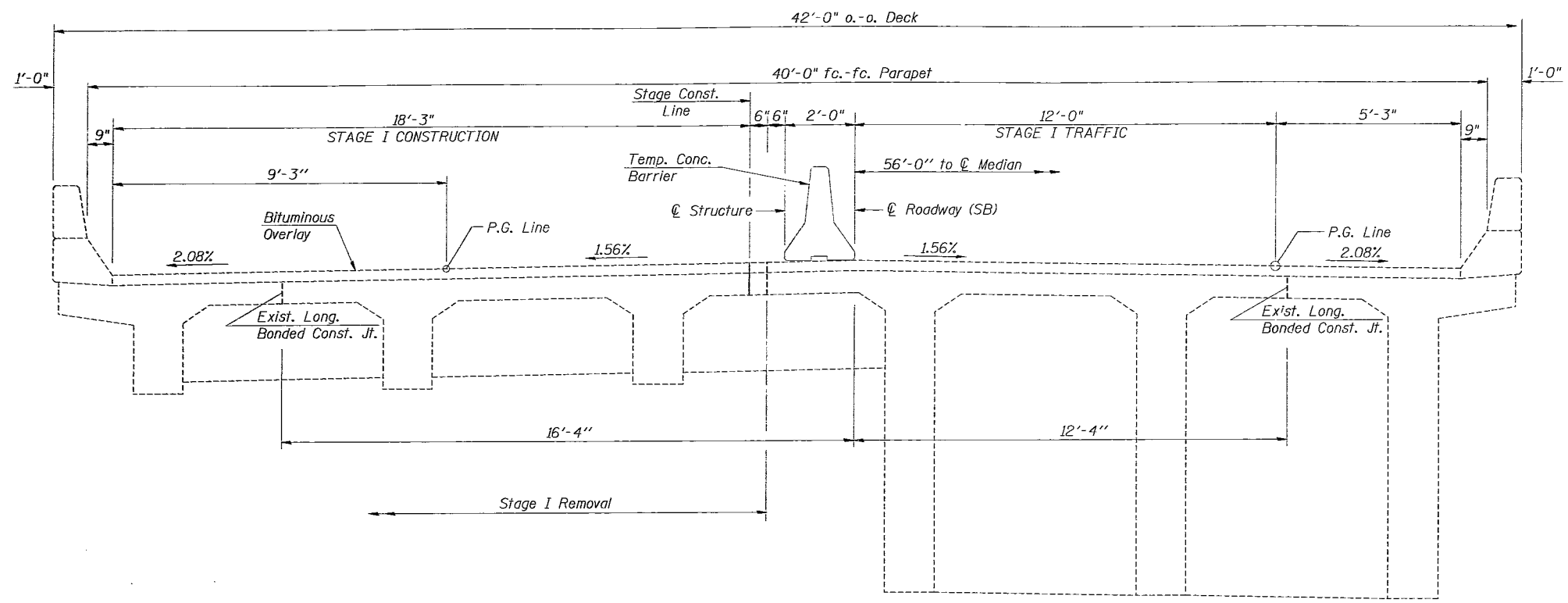
REVISIONS	
NAME	DATE

511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958
Ozyurt and Stone, Inc.
 CONSULTING ENGINEERS
 JOB #: 99314
 FILE: DECKDET158.DGN
 DATE: 11-27-00

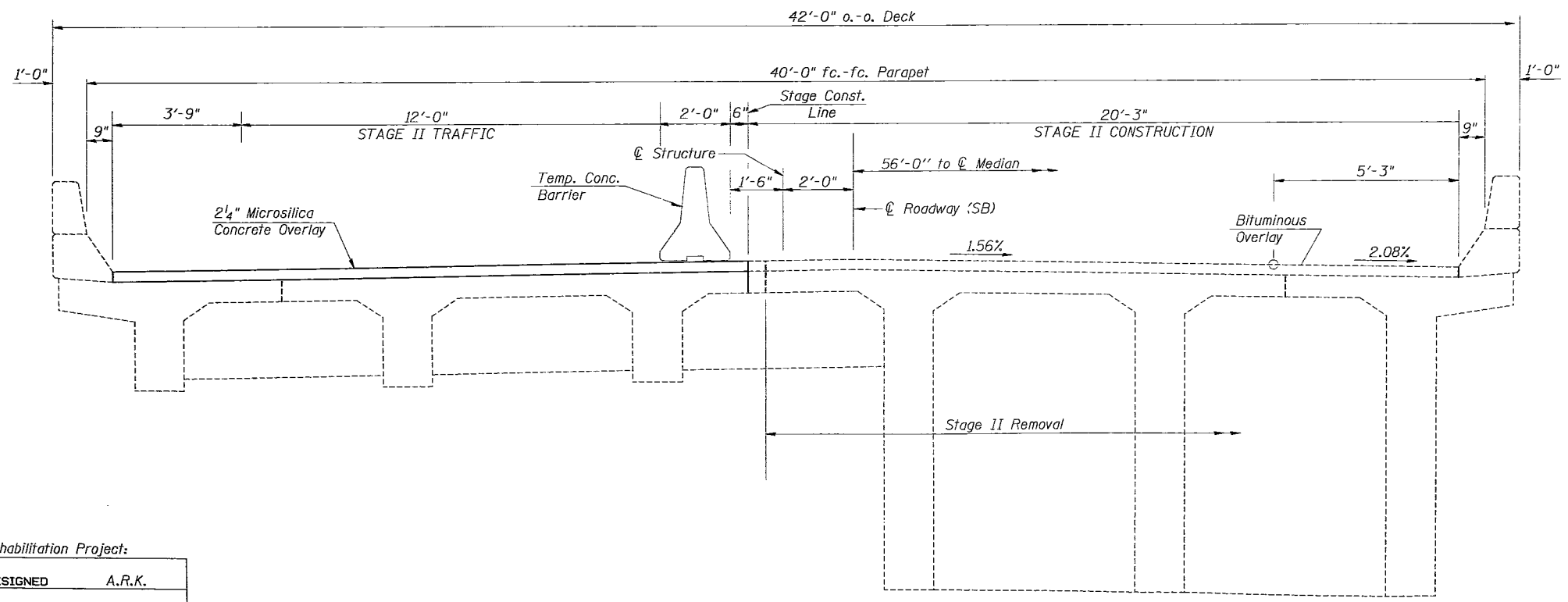
Rehabilitation Project	
DESIGNED	A.R.K.
CHECKED	F.J.S. & S.F.M.
DRAWN	P.J.J.
CHECKED	A.R.K. & F.J.S.

F.A.I. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	**	McLEAN	163	91
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		

** (57-8, 57-9, 57-10) RS & I
 Sheet 7 of 25
 S.N.'s 057-0157 & 057-0158



STAGE I (SBL)
 (Looking North)



STAGE II (SBL)
 (Looking North)

SEE STD. 701402 FOR TRAFFIC CONTROL.

Rehabilitation Project:

DESIGNED	A.R.K.
CHECKED	F.J.S. & S.F.M.
DRAWN	R.S.J.
CHECKED	A.R.K. & F.J.S.

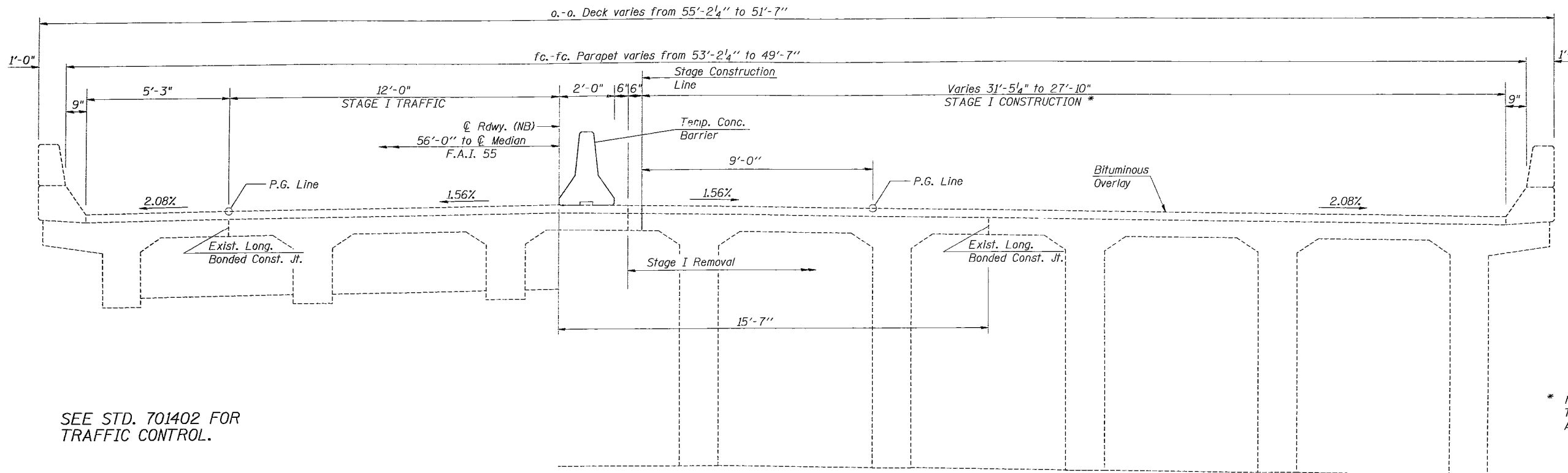
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 STAGE CONSTRUCTION DETAILS
 F.A.I. 55 OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10)RS & I
 McLEAN COUNTY
 STA. 297+80.50
 STRUCTURE # 057-0157

511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958	Ozyurt and Stone, Inc. CONSULTING ENGINEERS	JOB #: 99314 FILE: STAGE157.DGN DATE: 11-27-00
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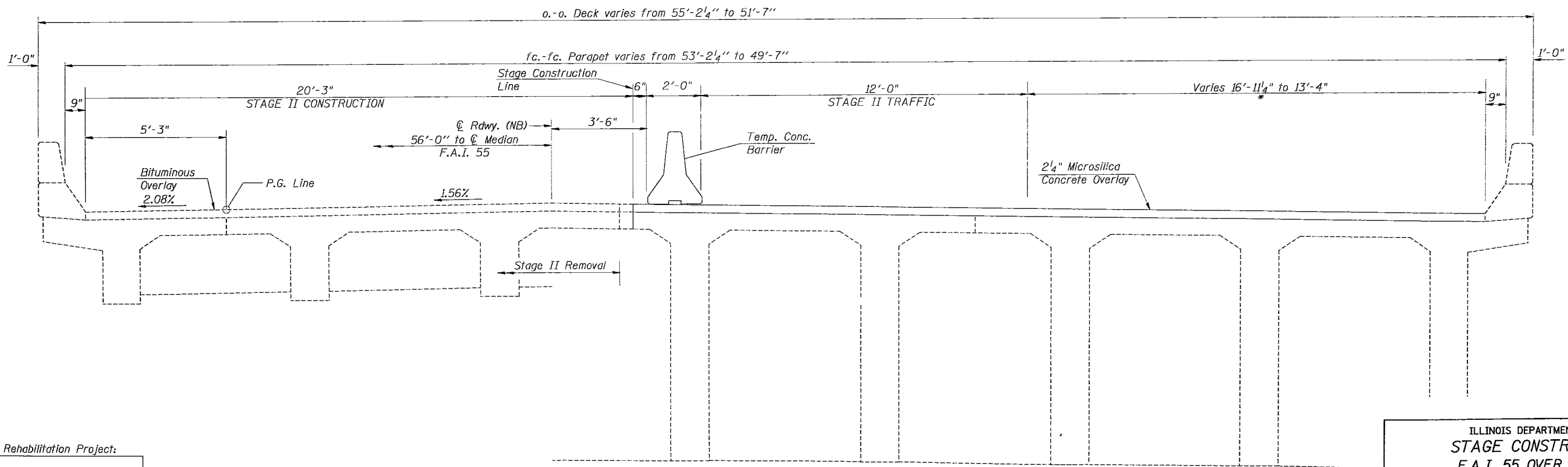
FBI RTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	**	McLEAN	163	92
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		

** (57-8, 57-9, 57-10) RS & I
 1'-0" Sheet 8 of 25
 S.N.'s 057-0157 & 057-0158



STAGE I (NBL)
 (Looking North)

* NORTHBOUND REST AREA TO BE OPEN DURING RAMP AND STRUCTURE CONSTRUCTION



STAGE II (NBL)
 (Looking North)

Rehabilitation Project:

DESIGNED	A.R.K.
CHECKED	F.J.S. & S.F.M.
DRAWN	R.S.J.
CHECKED	A.R.K. & F.J.S.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION DETAILS
 F.A.I. 55 OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10)RS & I
 McLEAN COUNTY
 STA. 297+80.50
 S.N. 057-0158

511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958

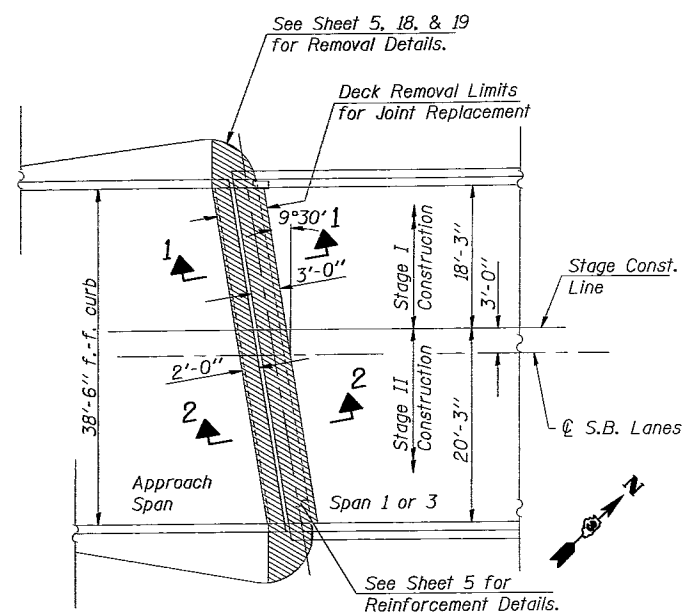
Ozyurt and Stone, Inc.
 CONSULTING ENGINEERS

JOB #: 99314
 FILE: STAGE158.DGN
 DATE: 11-27-00

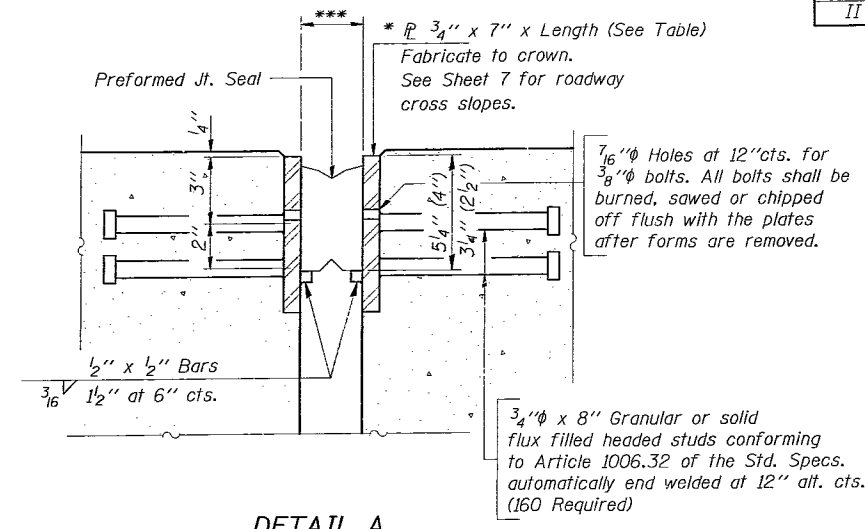
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	**	McLEAN	163	93
ROAD DISTRICT		ILLINOIS		

** (57-8, 57-9, 57-10) RS & I
 Sheet 9 of 25
 S.N.'s 057-0157 & 057-0158

STAGE	P. LENGTH
I	19'-0"
II	21'-0"

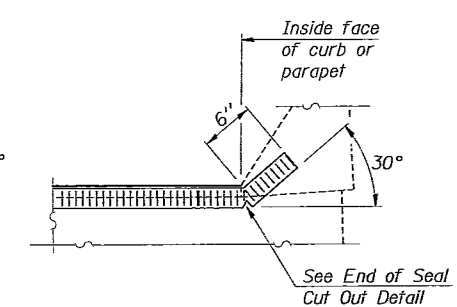
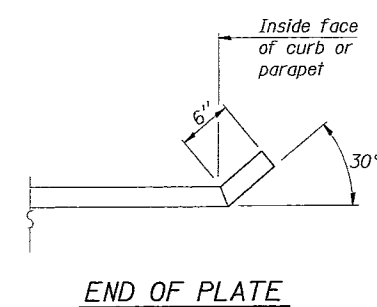
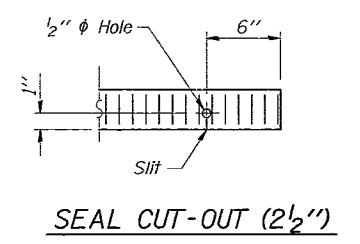
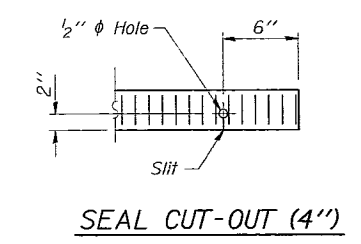
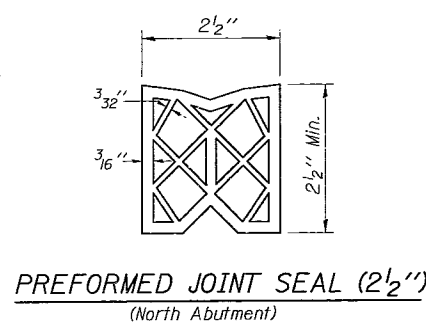
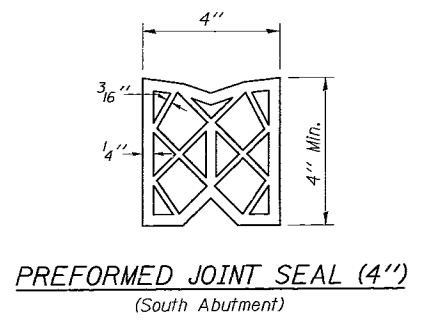


JOINT PLAN
 (S. Abut. Shown
 N. Abut. Similar)

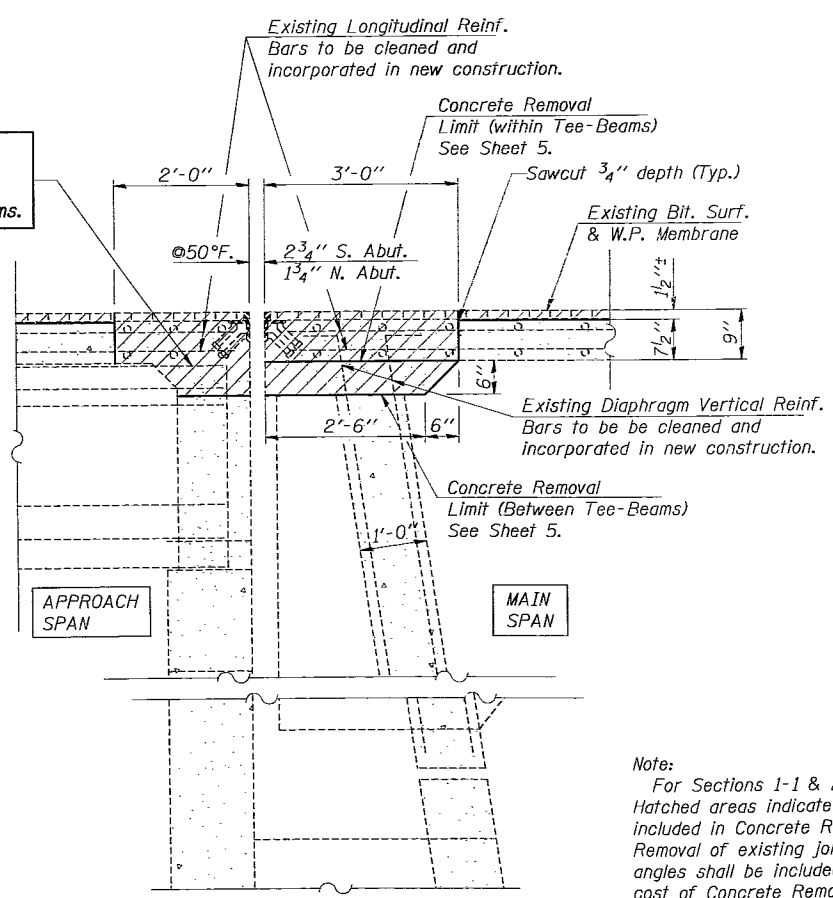


DETAIL A

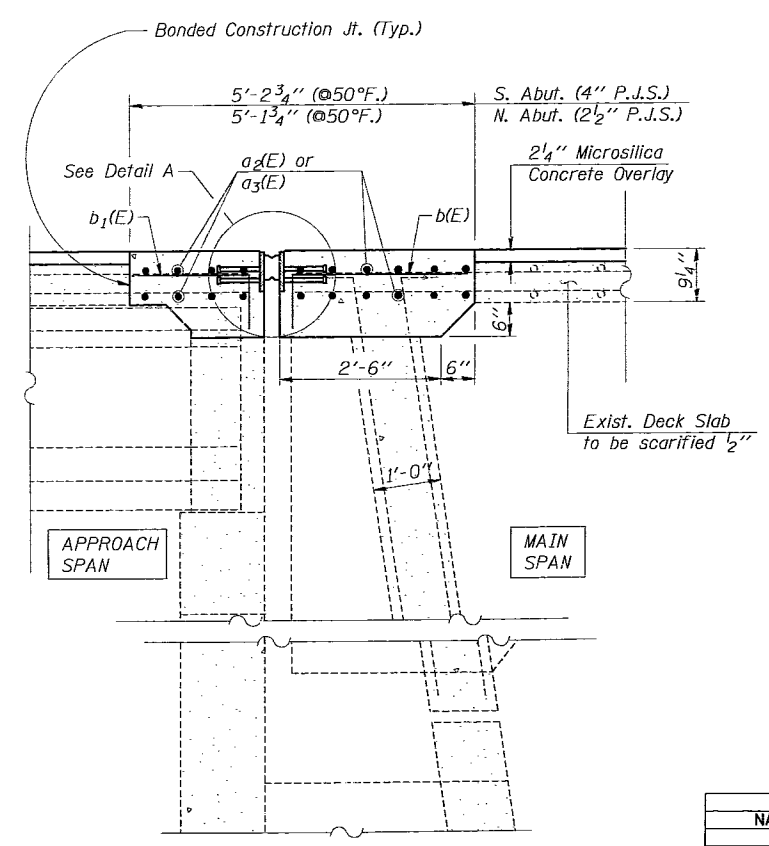
* Furnish lengths in segments as required for stage construction. Maximum space between installed segments shall be 3/16". Seal space with Silicone Sealant suitable for Structural Steel.
 *** 1 3/4" @ 50° F (2 1/2")
 2 3/4" @ 50° F (4")



Note:
 Removal operations for diaphragm wall & slab concrete shall not damage encased portions of existing P.P.C. I-beams.



SECTION 1-1
 (Existing Joint)



SECTION 2-2
 (Proposed Joint)

Note:
 For Sections 1-1 & 2-2
 Hatched areas indicate removal included in Concrete Removal.
 Removal of existing joint armor angles shall be included in the cost of Concrete Removal.
 Extreme care is to be exercised in slab removal operations near existing P.P.C. I-Beams & R.C. Tee-Beams.

BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Preformed Joint Seal 4"	Foot	40		40
Preformed Joint Seal 2 1/2"	Foot	40		40
Furnishing & Erecting Structural Steel	Pound	3240		3240

Rehabilitation Project

DESIGNED	A.R.K.
CHECKED	S.F.M.
DRAWN	R.S.J.
CHECKED	A.R.K. & F.J.S.

REVISIONS	
NAME	DATE

Work this Sheet with Sheet 3 & 5.

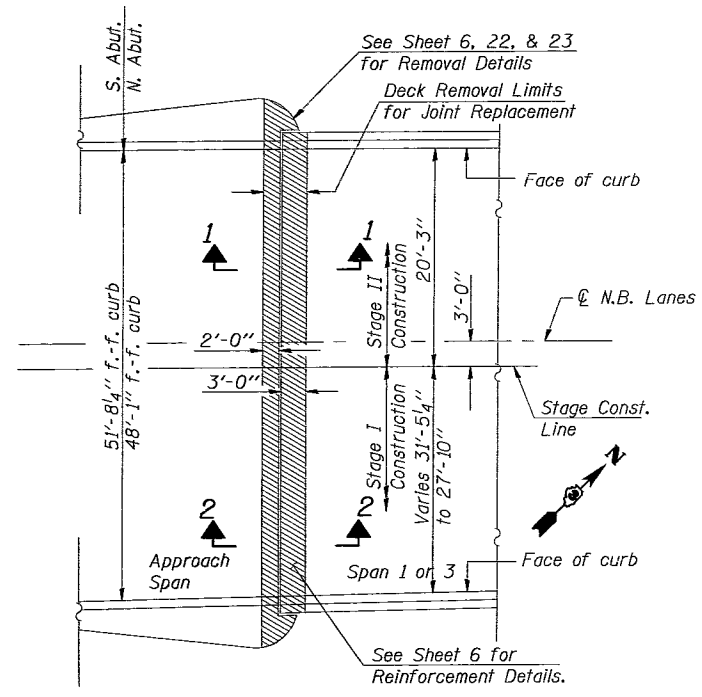
ILLINOIS DEPARTMENT OF TRANSPORTATION
EXPANSION JOINT DETAILS
 F.A.I. 55 OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10) RS&I
 McLEAN COUNTY
 STA. 297+80.50
 S.N. 057-0157

511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958	Ozyurt and Stone, Inc. CONSULTING ENGINEERS	JOB #: 99314 FILE: JOINT157.DGN DATE: 11-27-00
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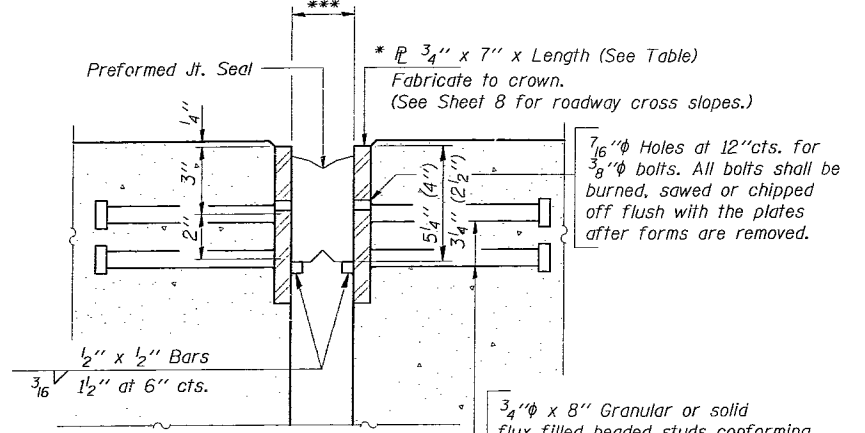
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	**	McLEAN	163	94
ROAD DISTRICT		ILLINOIS		

** (57-8, 57-9, 57-10) RS & I
 Sheet 10 of 25
 S.N.'s 057-0157 & 057-0158

JOINT @	STAGE	P LENGTH
S. Abut.	I	32'-0"
	II	20'-9"
N. Abut	I	28'-4"
	II	20'-9"



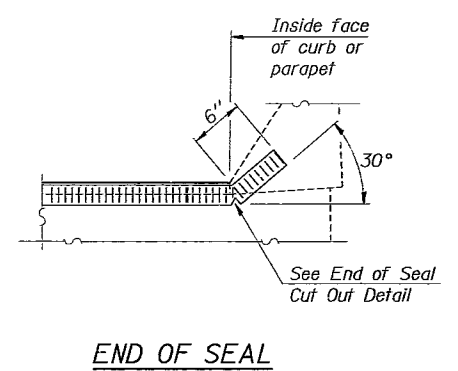
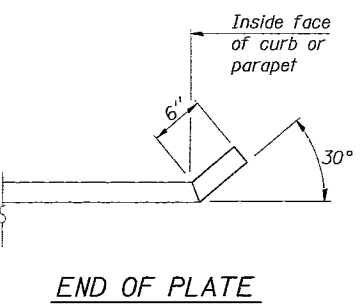
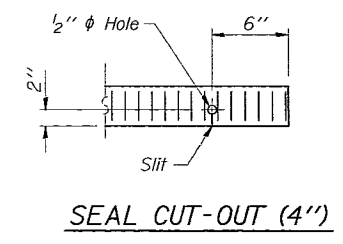
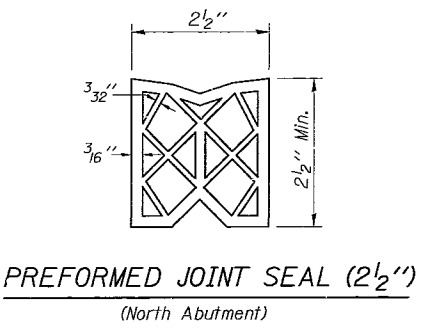
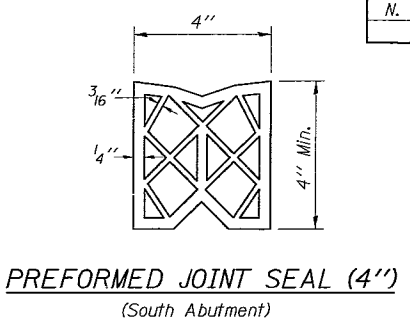
JOINT PLAN
 (S. Abut. Shown
 N. Abut. Similar)



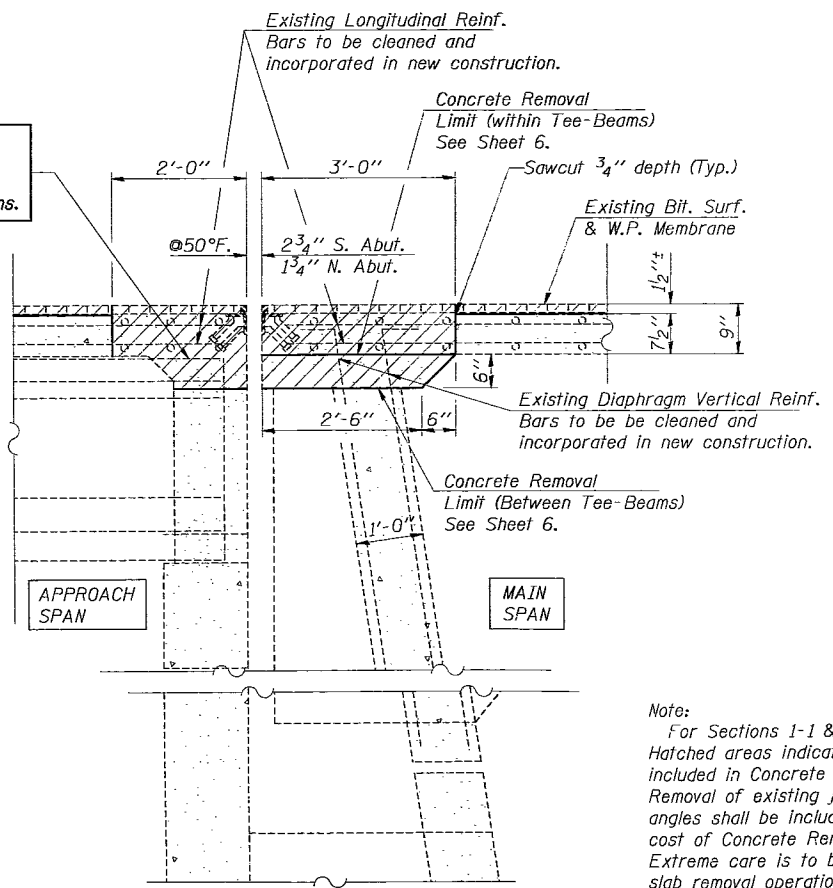
DETAIL A

* Furnish lengths in segments as required for stage construction. Maximum space between installed segments shall be 3/16\".

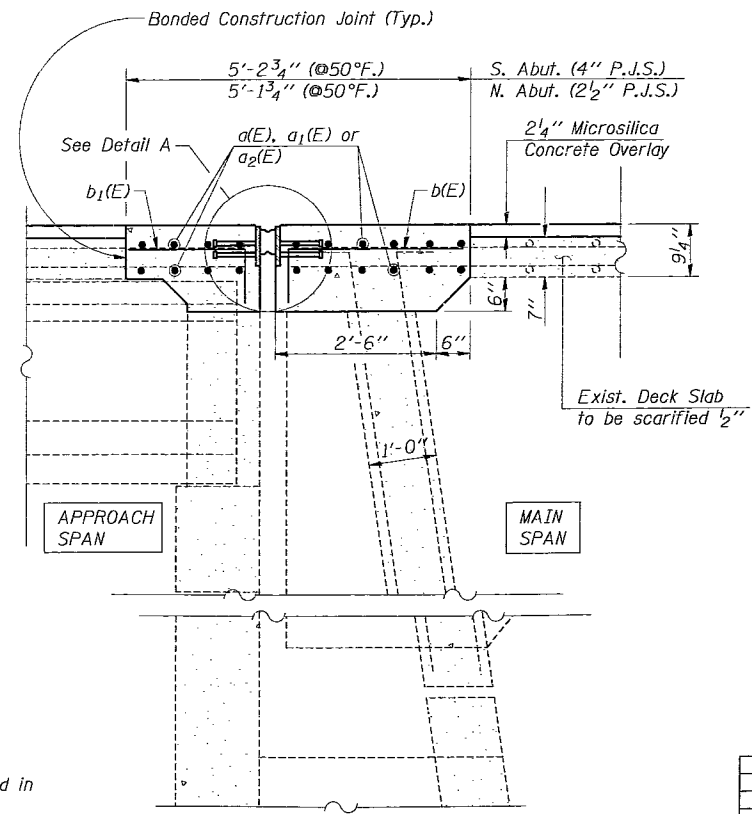
*** 1 3/4\" @ 50° F (2 1/2\")
 2 3/4\" @ 50° F (4\")



Note: Removal operations for diaphragm wall & slab concrete shall not damage encased portions of existing P.P.C. I-beams.



SECTION 1-1
 (Existing Joint)



SECTION 2-2
 (Proposed Joint)

Note: For Sections 1-1 & 2-2 Hatched areas indicate removal included in Concrete Removal. Removal of existing joint armor angles shall be included in the cost of Concrete Removal. Extreme care is to be exercised in slab removal operations near existing P.P.C I-Beams & R.C. Tee-Beams.

BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Preformed Joint Seal 4"	Foot	53		53
Preformed Joint Seal 2 1/2"	Foot	49		49
Furnishing & Erecting Structural Steel	Pound	4160		4160

Rehabilitation Project

DESIGNED	A.R.K.
CHECKED	S.F.M.
DRAWN	R.S.J.
CHECKED	A.R.K. & F.J.S.

REVISIONS	
NAME	DATE

Work this Sheet with Sheet 4 & 6.

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXPANSION JOINT DETAILS
 F.A.I. 55 OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10) RS&I
 McLEAN COUNTY
 S.N. 057-0158

511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958
Ozyurt and Stone, Inc.
 CONSULTING ENGINEERS

JOB #: 9931.4
 FILE #: JOINT158.DGN
 DATE: 11-27-00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	**	McLEAN	163	95
ROAD DISTRICT		ILLINOIS		

** (57-8, 57-9, 57-10) RS & I

Sheet 11 of 25
S.N.'s 057-0157 & 057-0158

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

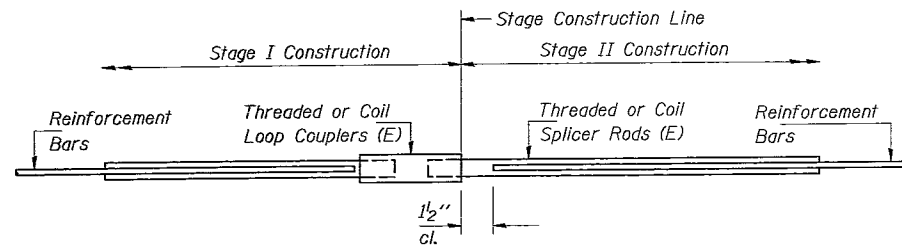
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
- ② Minimum *Pull-out Strength (Tension in kips) = $1.25 \times f_{s_{allow}} \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s_{allow}}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



SPLICER DETAIL

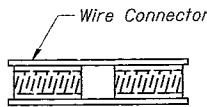
Bar Size	No. Assemblies Required	Location
#5	40	Deck Slab @ Exp. Jts. (S.N. 057-0157)
#5	40	Deck Slab @ Exp. Jts. (S.N. 057-0158)

The diameter of this part is the same as the diameter of the bar spliced.

ROLLED THREAD DOWEL BAR



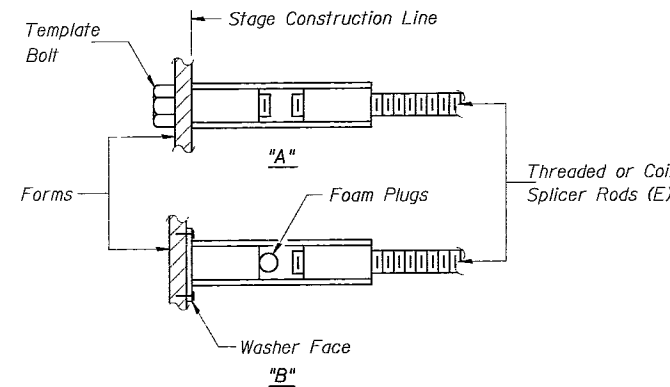
** ONE PIECE



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



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.

Rehabilitation Project:

DESIGNED	S.F.M.
CHECKED	A.R.K.
DRAWN	R.S.J.
CHECKED	A.R.K., F.J.S.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BAR SPLICER ASSEMBLY DETAILS
F.A.I. 55 OVER C.H. 36 & RAMP A
SECTION (57-8, 57-9, 57-10) RS&I
McLEAN COUNTY
STA. 297+80.50
S.N. 057-0157 & 057-0158

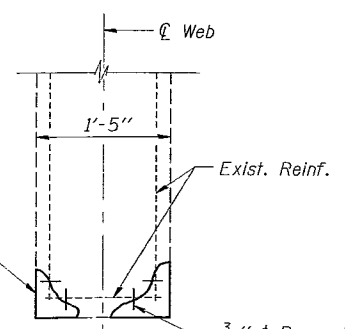
511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958	Ozyurt and Stone, Inc. CONSULTING ENGINEERS	JOB #: 9931.4 FILE: BARSPLICE.DGN DATE: 11-27-00
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	**	McLEAN	163	96

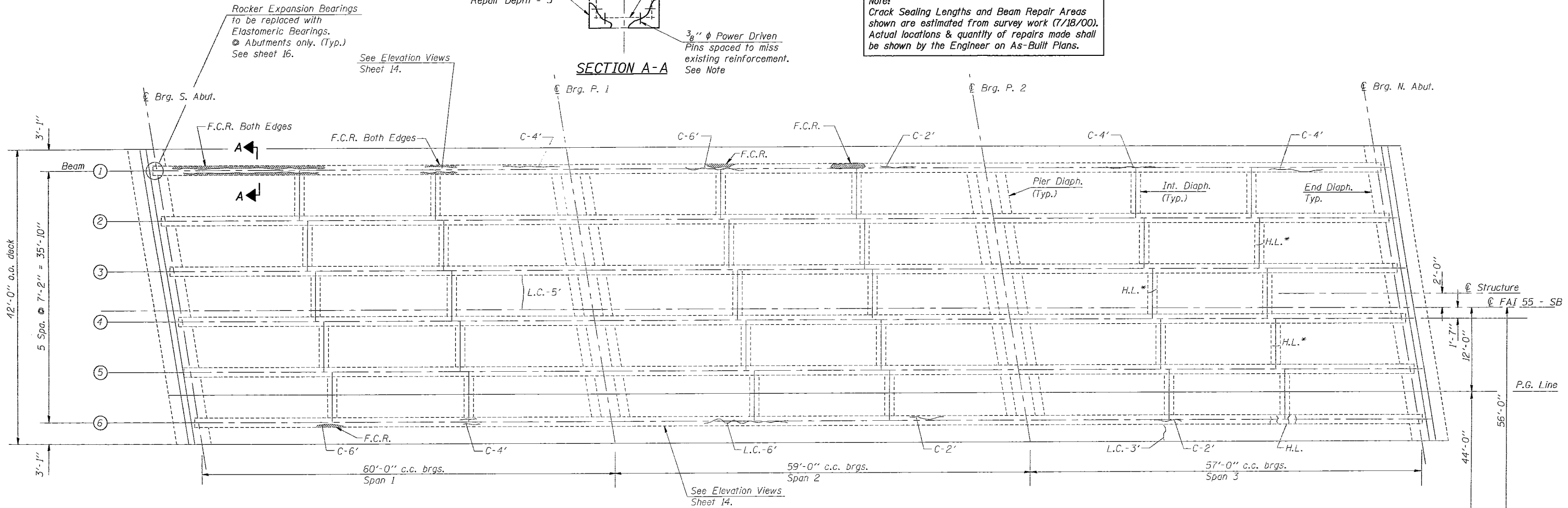
ROAD DISTRICT ILLINOIS

** (57-8, 57-9, 57-10) RS & I
 Sheet 12 of 25
 S.N.'s 057-0157 & 057-0158

Note:
 Power driven pins shall be placed on 12" cts. in longitudinal direction and 6" cts. in the vertical direction. The cost of the driven pins shall be included in the cost of Formed Concrete Repair, Depth \leq 5".



Note:
 Crack Sealing Lengths and Beam Repair Areas shown are estimated from survey work (7/18/00). Actual locations & quantity of repairs made shall be shown by the Engineer on As-Built Plans.



Note:
 F.C.R. Quantities \odot Beam Bottom Edges included on Sheet 14.

* In Diaphragm

UNDERSIDE DECK & FRAMING PLAN - REFLECTED
 (Showing Beam Underside Repairs)

LEGEND

- Inspection Date 7-18-00
- L.C.-2' Leached Crack } Epoxy Crack Sealing
 - C-6' Crack > 1/16" } Epoxy Crack Sealing
 - (S) Moisture Stain
 - H.L. Hairline Cracks - Not to be sealed
 - F.C.R. Formed Concrete Repair (Depth \leq 5")

CONCRETE REPAIRS - DECK UNDERSIDE

ITEM	QUANTITY
Epoxy Crack Sealing	48 Foot

Rehabilitation Project:

DESIGNED	A.R.K.
CHECKED	S.F.M.
DRAWN	P.J.J. & R.S.J.
CHECKED	A.R.K., F.J.S.

REVISIONS	
NAME	DATE

Work this Sheet with Sheet 14.

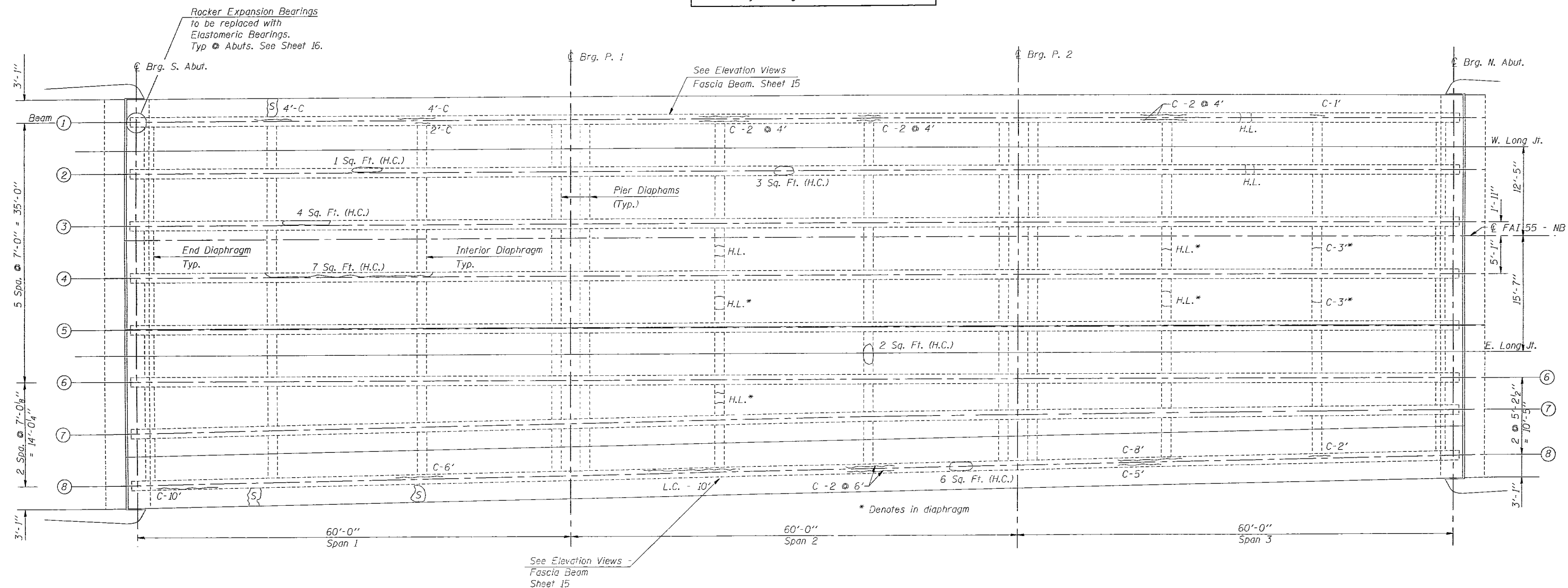
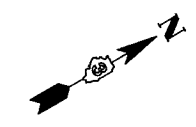
ILLINOIS DEPARTMENT OF TRANSPORTATION
UNDERSIDE DECK REPAIR PLAN
 F.A.I. 55 OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10) RS&I
 McLEAN COUNTY
 STA. 297+80.50
 S.N. 057-0157

511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958	Ozyurt and Stone, Inc. CONSULTING ENGINEERS.	JOB #: 99314 FILE: UNREP157.DGN DATE: 11-27-00
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	**	McLEAN	163	97
ROAD DISTRICT	ILLINOIS			

** (57-8, 57-9, 57-10) RS & I
 Sheet 13 of 25
 S.N.'s 057-0157 & 057-0158

Note:
 Crack Sealing Lengths and Beam Repair Areas shown are estimated from survey work (7/18/00). Actual locations & quantity of repairs made shall be shown by the Engineer on As-Built Plans.



UNDERSIDE DECK & FRAMING PLAN - REFLECTED
 (Showing Beam Underside Repairs)

LEGEND

- Inspection Date 7-18-00
- L.C.-6' Leached Crack } Epoxy Crack Sealing
 - C-2' Crack > 1/16" } Crack Sealing
 - (S) Moisture Stain
 - H.C. Honey Comb Area (Bottom of Flange) } Not to be repaired.
 - H.L. Hairline Cracks - Not to be sealed

CONCRETE REPAIRS - DECK UNDERSIDE

ITEM	QUANTITY
Epoxy Crack Sealing	94 Foot

Rehabilitation Project:

DESIGNED	A.R.K.
CHECKED	S.F.M.
DRAWN	P.J.J. & R.S.J.
CHECKED	A.R.K., F.J.S.

REVISIONS	
NAME	DATE

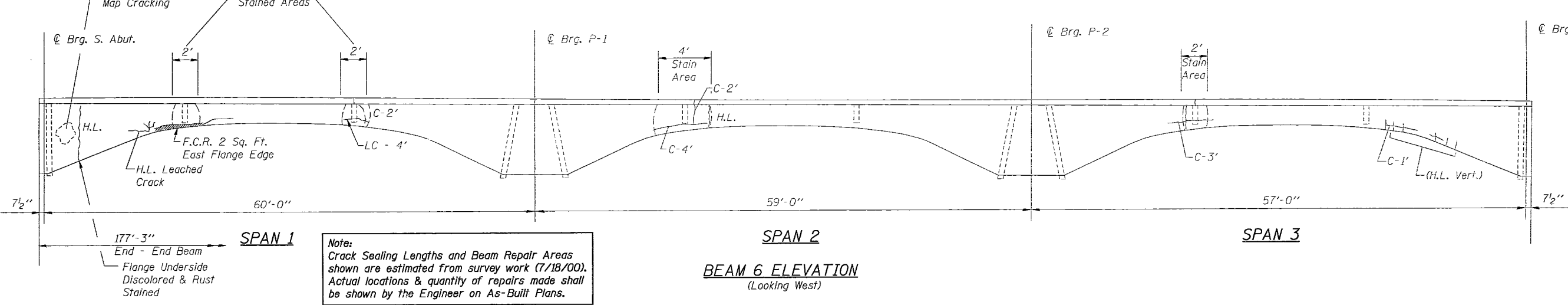
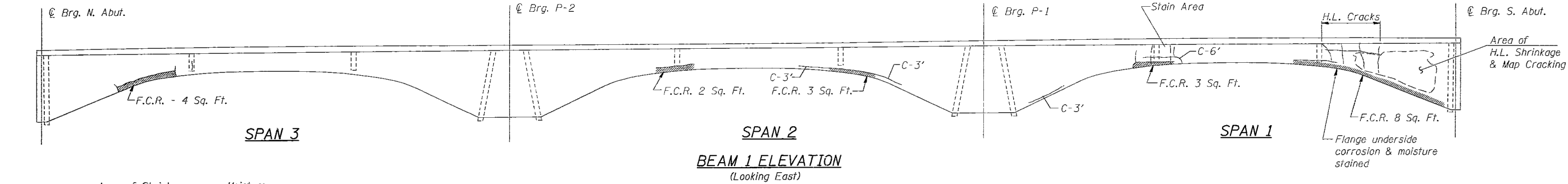
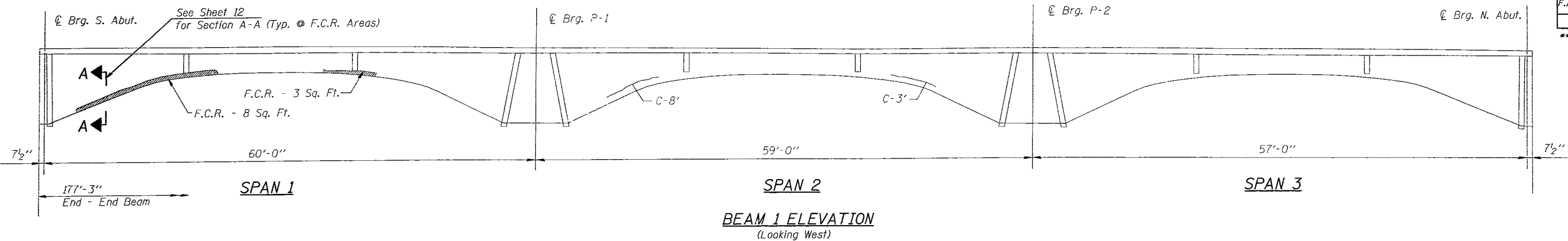
Work this Sheet with Sheet 15.

ILLINOIS DEPARTMENT OF TRANSPORTATION
UNDERSIDE DECK REPAIR PLAN
 F.A.I. 55 OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10) RS&I
 McLEAN COUNTY
 STA. 297+80.50
 S.N. 057-0158

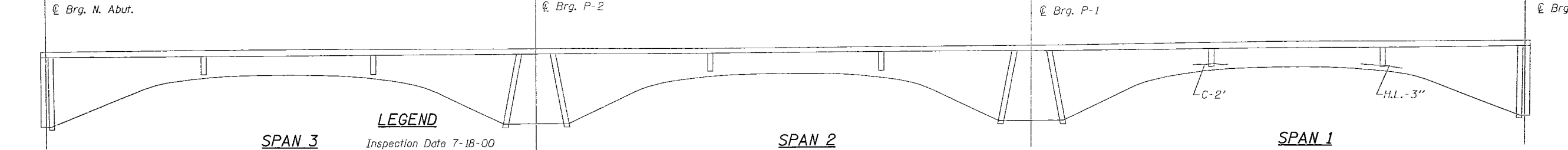
511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958	Ozyurt and Stone, Inc. CONSULTING ENGINEERS	JOB #: 99314 FILE: UNREP15B.DGN DATE: 11-27-00
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	**	McLEAN	163	98

ROAD DISTRICT ILLINOIS
 ** (57-8, 57-9, 57-10) RS & I
 Sheet 14 of 25
 S.N.'s 057-0157 & 057-0158



Note: Crack Sealing Lengths and Beam Repair Areas shown are estimated from survey work (7/18/00). Actual locations & quantity of repairs made shall be shown by the Engineer on As-Built Plans.



LEGEND
 Inspection Date 7-18-00

- L.C.-3' Leached Crack } Epoxy Crack Sealing
- C-3' Crack > 1/16" } Epoxy Crack Sealing
- (S) Moisture Stain Area
- F.C.R. Spall or Delaminated Area } F.C.R. - Formed Concrete Repair (Depth ≤ 5")
- H.L. Hair Line Cracks - Not to be Sealed

Rehabilitation Project:

DESIGNED	A.R.K.
CHECKED	S.F.M.
DRAWN	P.J.J.
CHECKED	A.R.K., F.J.S.

FASCIA BEAM ELEVATION
 ESTIMATE CONCRETE REPAIR QUANTITIES

ITEM	QUANTITY
Epoxy Crack Sealing	44 Foot
Formed Concrete Repair (Depth ≤ 5")	33 Sq. Ft.

REVISIONS	
NAME	DATE

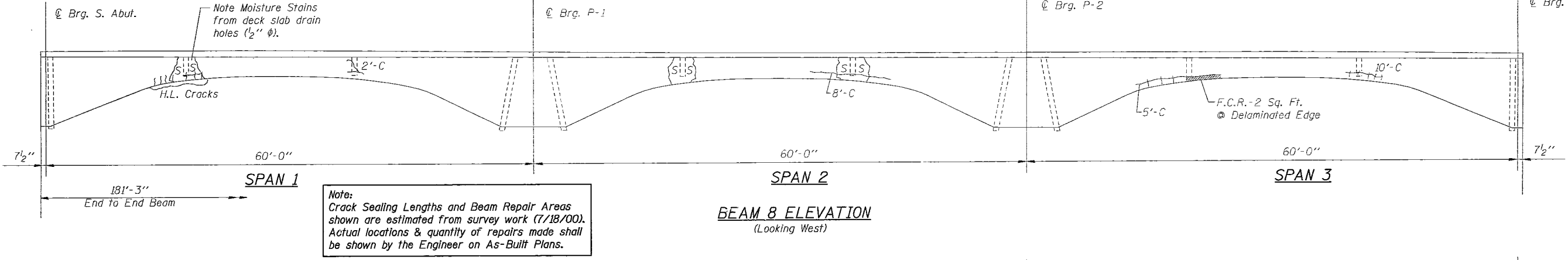
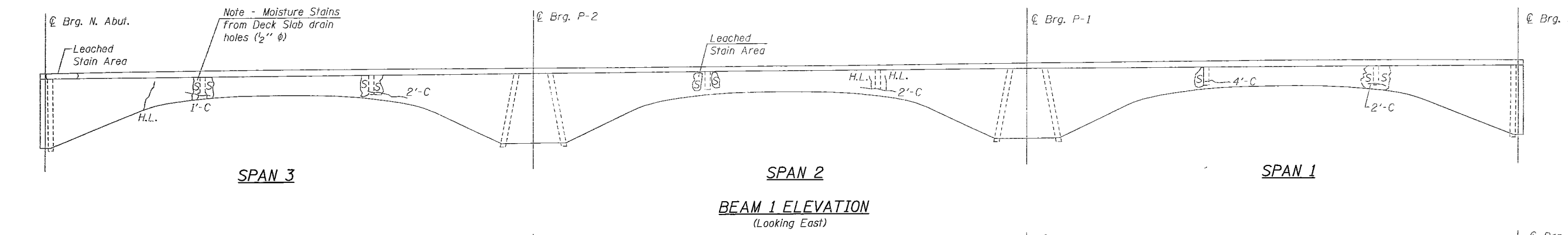
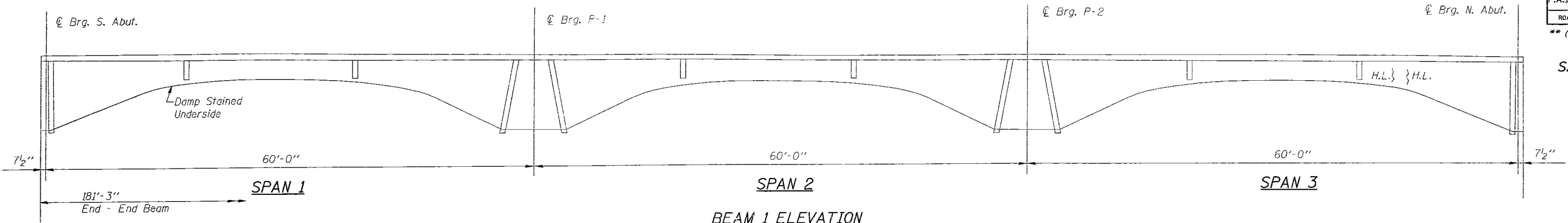
ILLINOIS DEPARTMENT OF TRANSPORTATION
 FASCIA BEAM REPAIRS
 F.A.I. 55 OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10) RS&I
 McLEAN COUNTY
 STA. 297+80.50
 S.N. 057-0157

511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958
Ozyurt and Stone, Inc.
 CONSULTING ENGINEERS

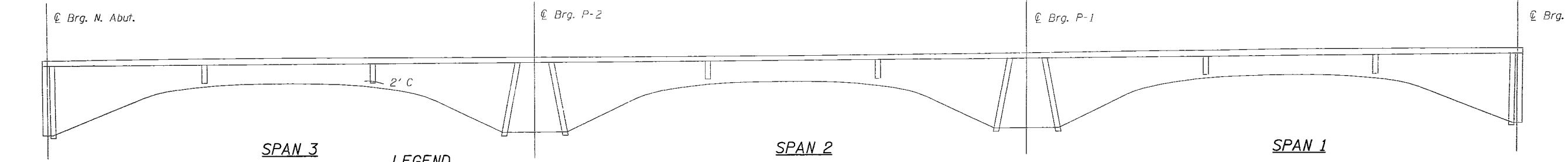
JOB #: 993L4
 FILE: FASCBMREP157.DGN
 DATE: 11-27-00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	**	McLEAN	163	99

ROAD DISTRICT ILLINOIS
 ** (57-8, 57-9, 57-10) RS & I
 Sheet 15 of 25
 S.N.'s 057-0157 & 057-0158



Note:
 Crack Sealing Lengths and Beam Repair Areas shown are estimated from survey work (7/18/00). Actual locations & quantity of repairs made shall be shown by the Engineer on As-Built Plans.



- LEGEND**
 Inspection Date 7-18-00
- L.C. Leached Crack } Epoxy Crack Sealing
 - C/ Crack > 1/16" width } Epoxy Crack Sealing
 - H.L. Hair Line Crack - Not to be Sealed
 - (S) Moisture Stain Area
 - (Shaded) Spall or Delaminated Area } F.C.R. - Formed Concrete Repair (Depth ≤ 5")

Rehabilitation Project:

DESIGNED	A.R.K.
CHECKED	S.F.M.
DRAWN	P.J.J.
CHECKED	A.R.K., F.J.S.

**FASCIA BEAM ELEVATION
 ESTIMATE CONCRETE REPAIR QUANTITIES**

ITEM	QUANTITY
Epoxy Crack Sealing	38 Foot
Formed Concrete Repair (Depth ≤ 5")	2 Sq. Ft.

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FASCIA BEAM REPAIRS
 F.A.I. 55 OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10) RS&I
 McLEAN COUNTY
 STA. 297+80.50
 S.N. 057-0158

511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958

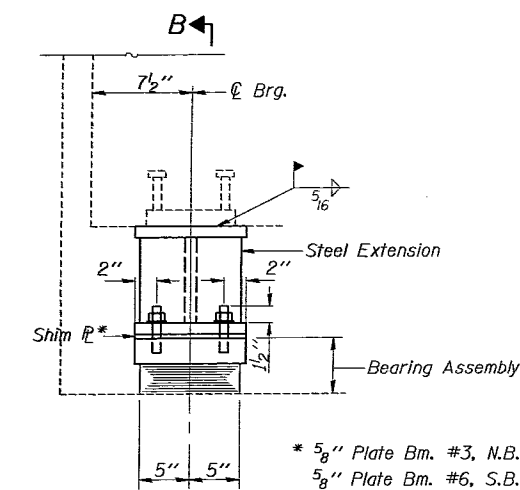
Ozyurt and Stone, Inc.
 CONSULTING ENGINEERS

JOB #: 99314
 FILE: FASCBMREP15B.DGN
 DATE: 11-27-00

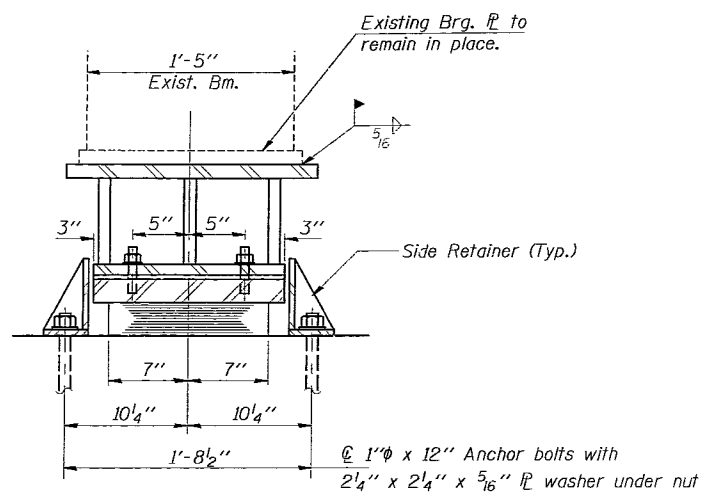
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	**	McLEAN	163	100
ROAD DISTRICT	ILLINOIS			

** (57-8, 57-9, 57-10) RS & I

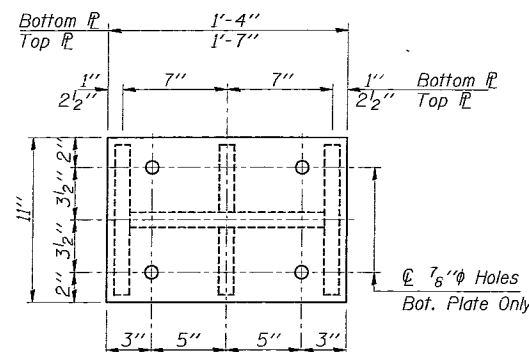
Sheet 16 of 25
S.N.'s 057-0157 & 057-0158



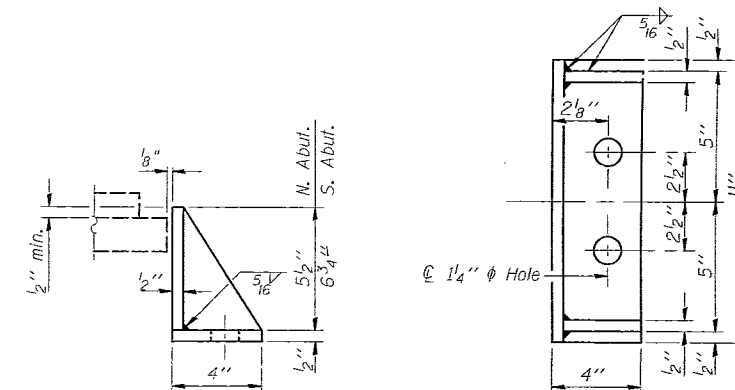
ELEVATION AT ABUTMENTS



SECTION B-B



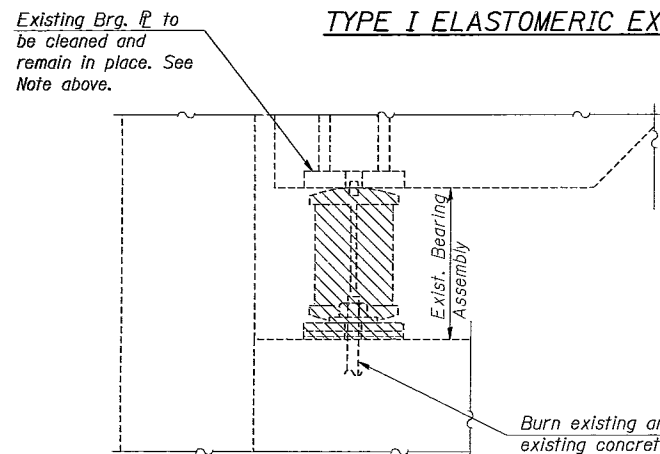
PLAN TOP AND BOTTOM PLATE
(Omit holes in top plate)



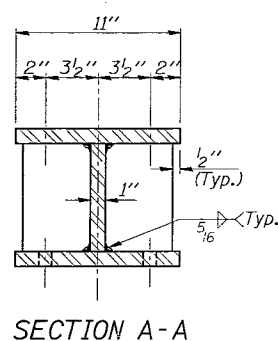
SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel. No. Req'd. = 56

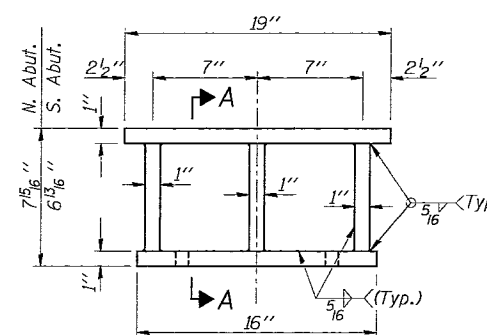
TYPE I ELASTOMERIC EXP. BRG.



EXISTING BEARING REMOVAL DETAIL
(Abutments Only - N.B. & S.B. Lanes)



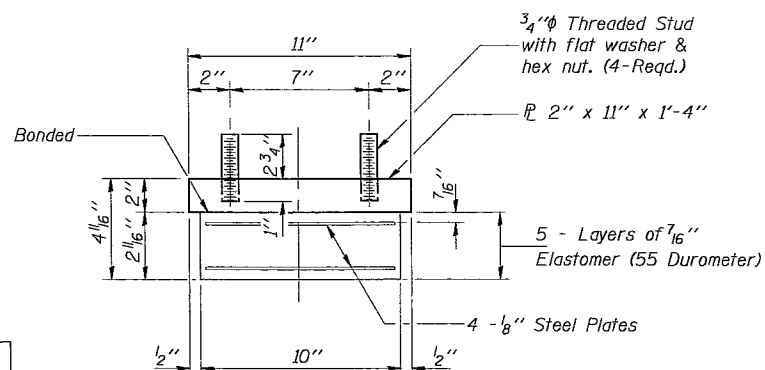
SECTION A-A



STEEL EXTENSION DETAIL
(28 - Req'd.)

BEAM REACTION TABLE		
	N.B. Lanes	S.B. Lanes
RP (K)	53.5	55.1
Rt (K)	32.5	33.3
R. Imp. (K)	8.8	9.1
R (Total) (K)	94.8	97.5

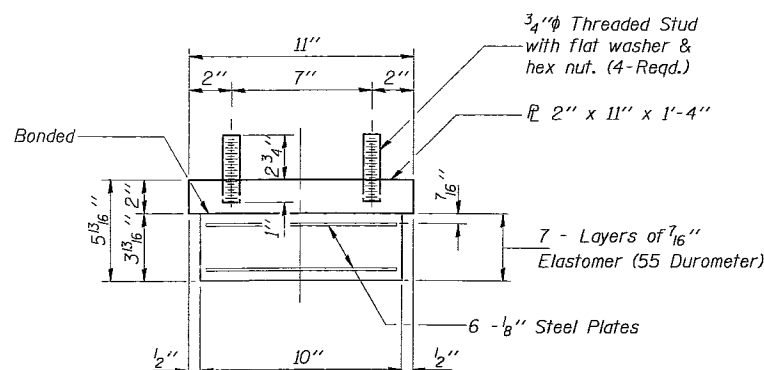
Note:
This table is to be used for Temporary Shoring Loads, End Diaphragms may not be used for Jacking Purposes.



BEARING ASSEMBLY

North Abutments
(14 Required)

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



BEARING ASSEMBLY

South Abutments
(14 Required)

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

Rehabilitation Project:

DESIGNED	S.F.M.
CHECKED	A.R.K.
DRAWN	R.S.J.
CHECKED	A.R.K., F.J.S.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	28
Jack & Remove Existing Bearings	Each	28
Furnishing & Erecting Structural Steel	Pound	7580

ILLINOIS DEPARTMENT OF TRANSPORTATION
BEARING REPLACEMENT DETAILS
F.A.I. 55 OVER C.H. 36 & RAMP A
SECTION (57-8, 57-9, 57-10) RS&I
McLEAN COUNTY
STA. 297+80.50
S.N. 057-0157 & 057-0158

511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958

Ozyurt and Stone, Inc.
CONSULTING ENGINEERS

JOB #: 99314
FILE: BEARING.DGN
DATE: 11-27-00

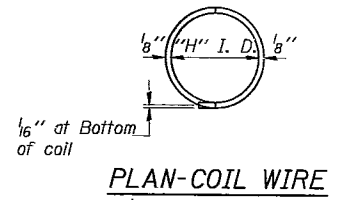
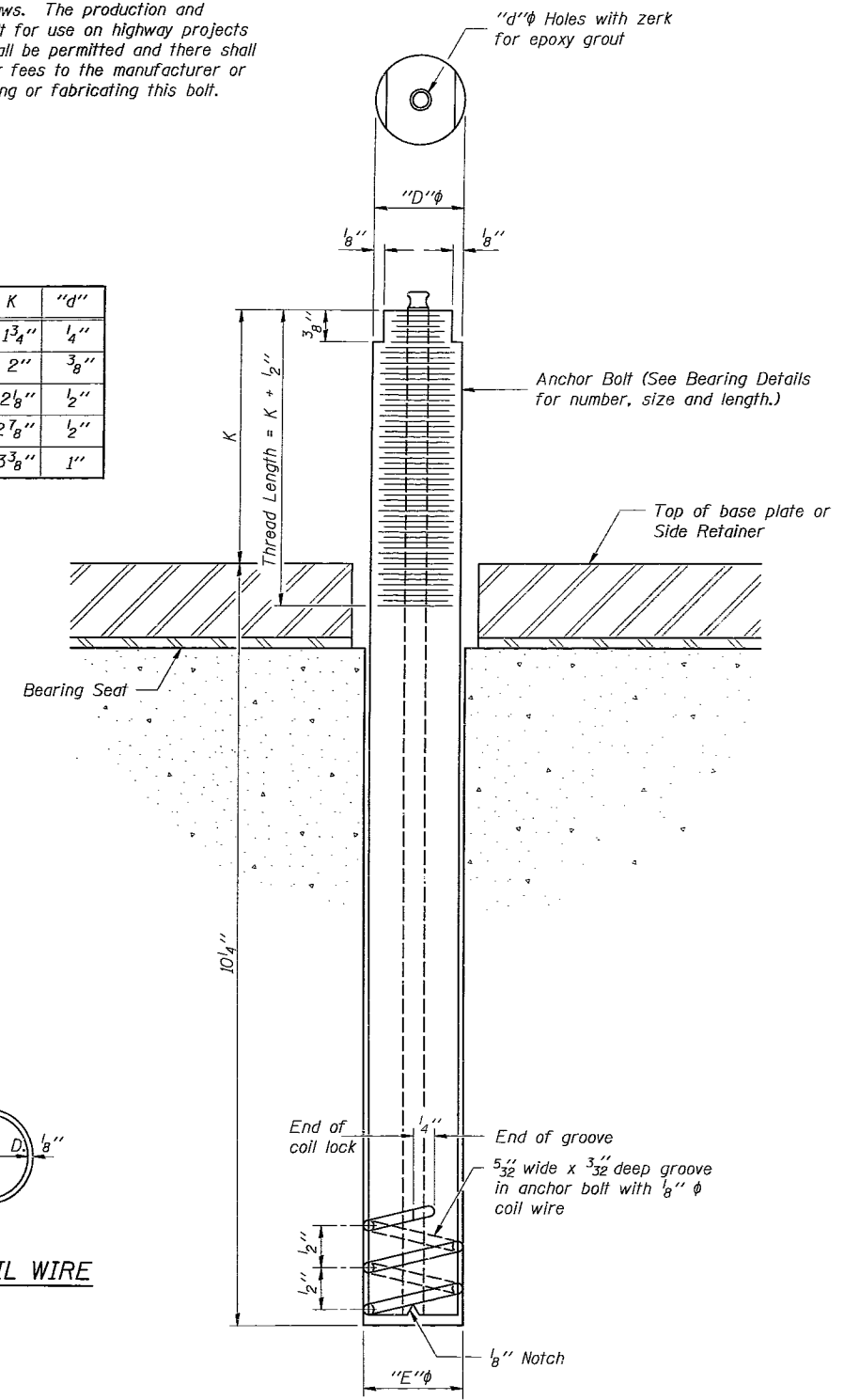
REVISIONS	
NAME	DATE

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	**	McLEAN	163	101
ROAD DISTRICT		ILLINOIS		

** (57-8, 57-9, 57-10) RS & I
 Sheet 17 of 25
 S.N.'s 057-0157 & 057-0158

The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

D	E	H	K	"d"
1"	1 1/8"	1 5/16"	1 3/4"	1/4"
1 1/4"	1 3/8"	1 1/16"	2"	3/8"
1 1/2"	1 5/8"	1 5/16"	2 1/8"	1/2"
2"	2 1/8"	1 3/16"	2 7/8"	1/2"
2 1/2"	2 5/8"	2 5/16"	3 3/8"	1"



ILLINOIS COIL-LOCK ANCHOR BOLT

MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.
 The coil wire shall be made of any suitable soft steel wire.
 The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed.
 The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.
 The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:
 1. A threaded rod stud with nut and washer of the type specified.
 2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Type
N. Abut.	A 307
S. Abut.	A 307

ASTM F 1554 Grade 105, ASTM A 449 and AASHTO M 314 Grade 105 anchor bolts may be substituted for the anchor bolts shown above.

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted.
 Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.
 The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for "Furnishing and Erecting Structural Steel".

Rehabilitation Project

DESIGNED	S.F.M.
CHECKED	A.R.K.
DRAWN	R.S.J.
CHECKED	A.R.K. & F.J.S.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ANCHOR BOLT DETAILS
 F.A.I. 55 OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10) RS&I
 McLEAN COUNTY
 STA. 297+80.50
 S.N. 057-0157 & 057-0158

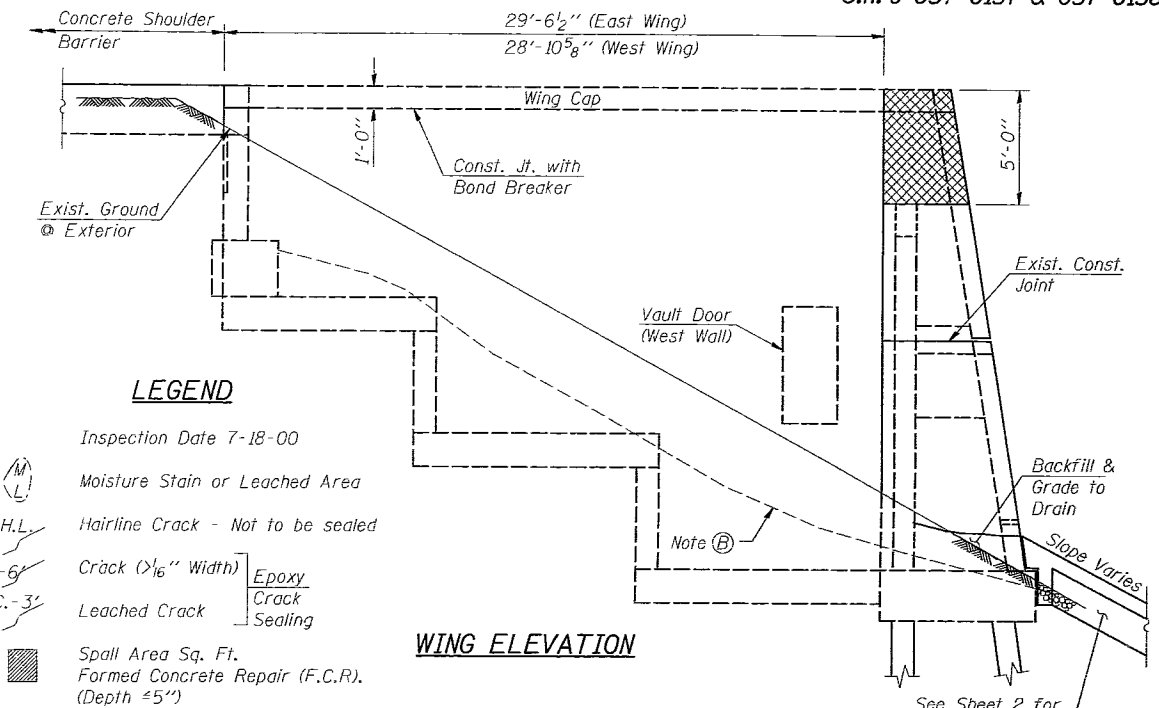
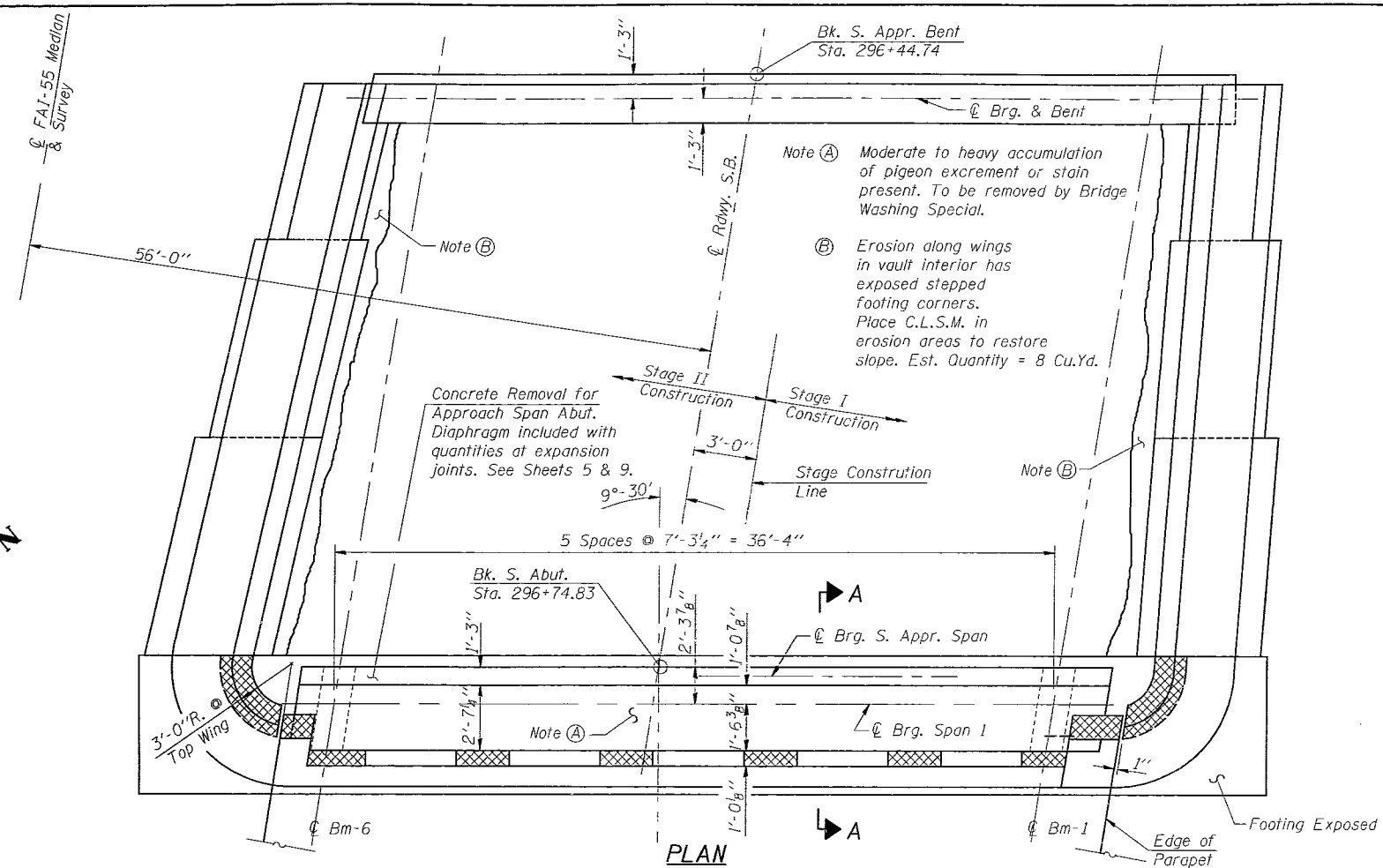
511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958

Ozyurt and Stone, Inc.
 CONSULTING ENGINEERS

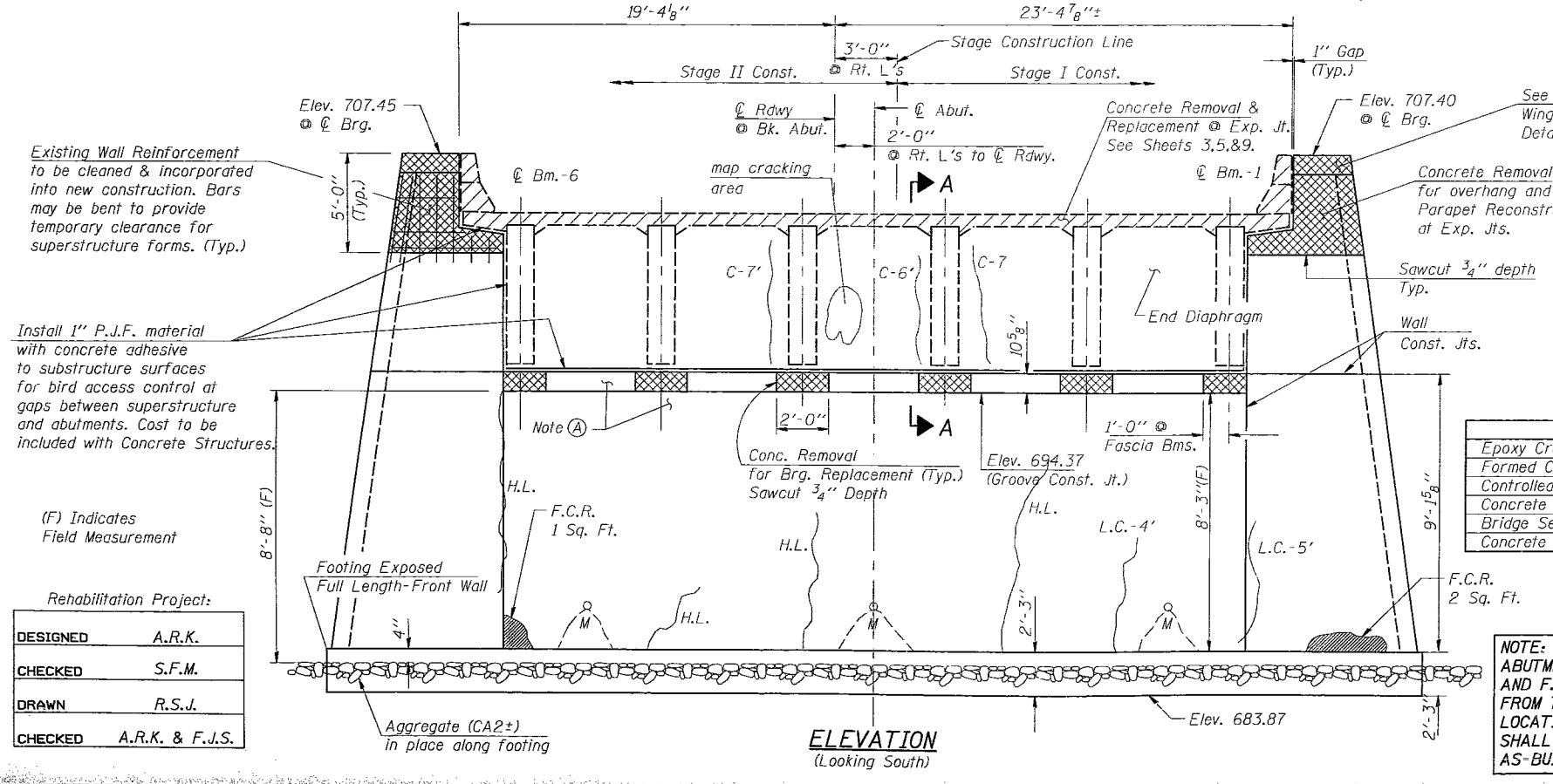
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 FILE: ANCBTDET.DWG
 DATE: 11-27-00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	**	McLEAN	163	102
ROAD DISTRICT	ILLINOIS			

** (57-8, 57-9, 57-10) RS & I
 Sheet 18 of 25
 S.N.'s 057-0157 & 057-0158

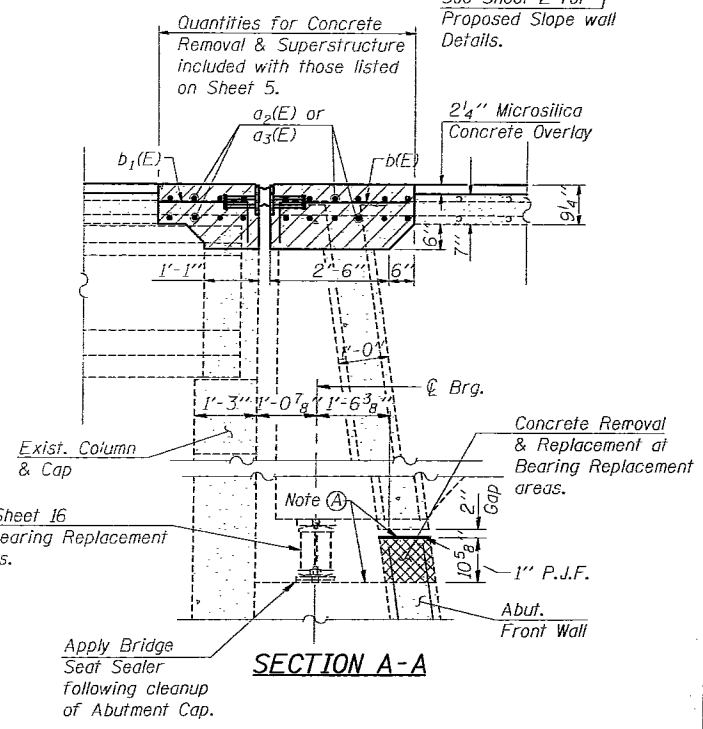


- LEGEND**
- Inspection Date 7-18-00
- (M) Moisture Stain or Leached Area
 - H.L. Hairline Crack - Not to be sealed
 - C-6" Crack (> 1/16" Width) Epoxy Crack Sealing
 - L.C.-3" Leached Crack
 - Spall Area Sq. Ft. Formed Concrete Repair (F.C.R.) (Depth ≤ 5")



SOUTH ABUTMENT QUANTITY SUMMARY

ITEM	QUANTITY
Epoxy Crack Sealing	29 Foot
Formed Concrete Repair (Depth ≤ 5")	3 Sq. Ft.
Controlled Low Strength Material	8 Cu. Yd.
Concrete Removal	3.3 Cu. Yd.
Bridge Seat Sealer	106 Sq. Ft.
Concrete Structures	3.3 Cu. Yd.

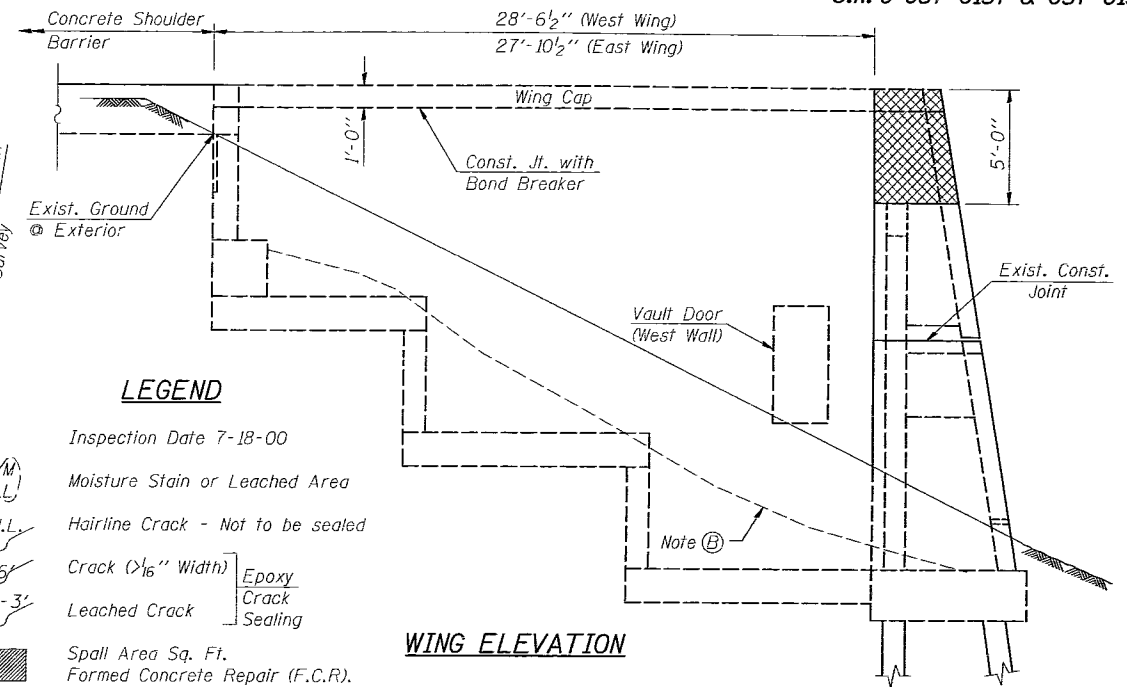
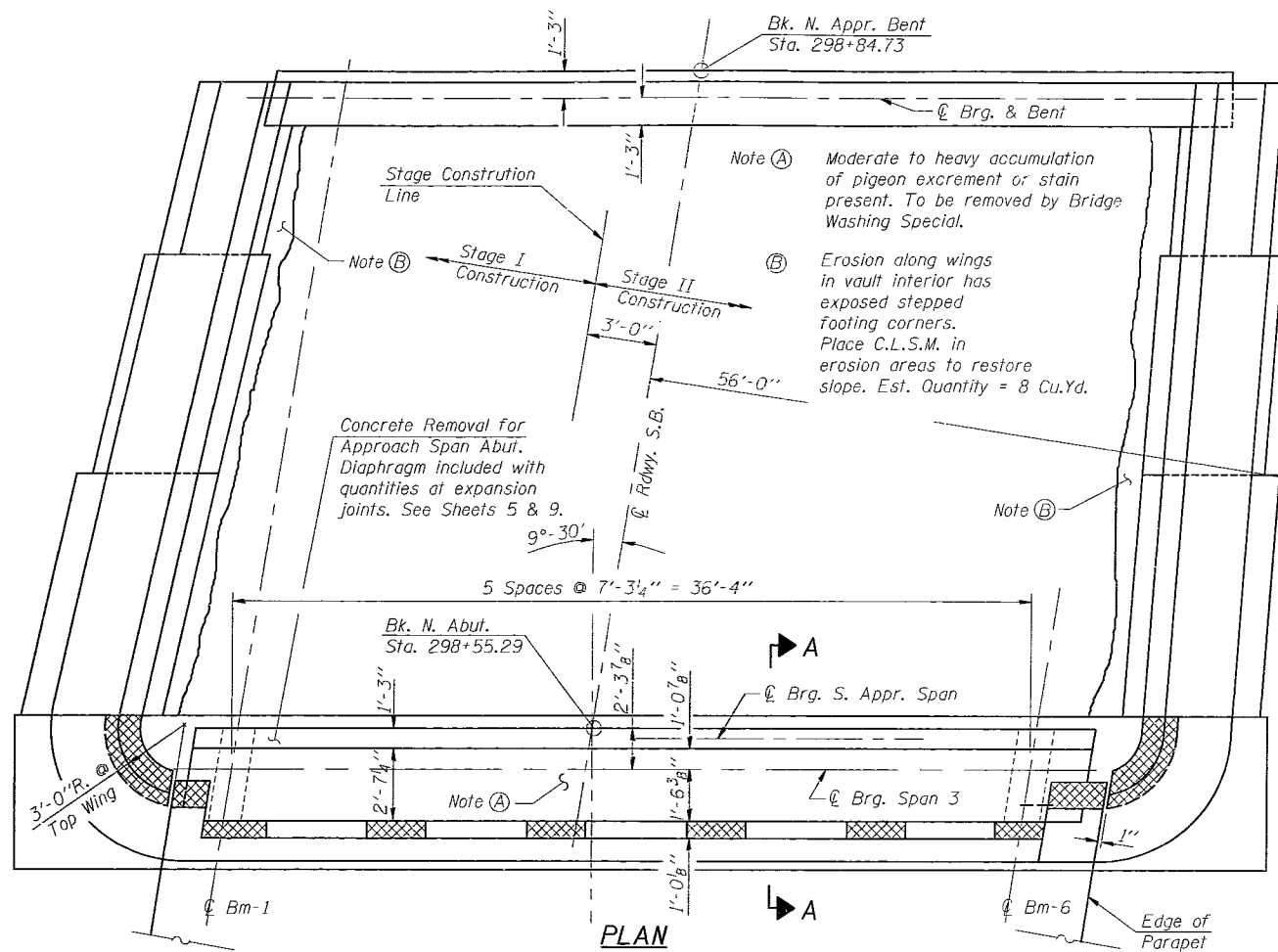


ILLINOIS DEPARTMENT OF TRANSPORTATION
SOUTH ABUTMENT REPAIRS
 F.A.I. 55 OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10) RS&I
 McLEAN COUNTY
 STA. 297+80.50
 S.N. 057-0157

511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958

Ozyurt and Stone, Inc.
 CONSULTING ENGINEERS

JOB #: 99314
 FILE: SABUTREP157.DGN
 DATE: 11-27-00

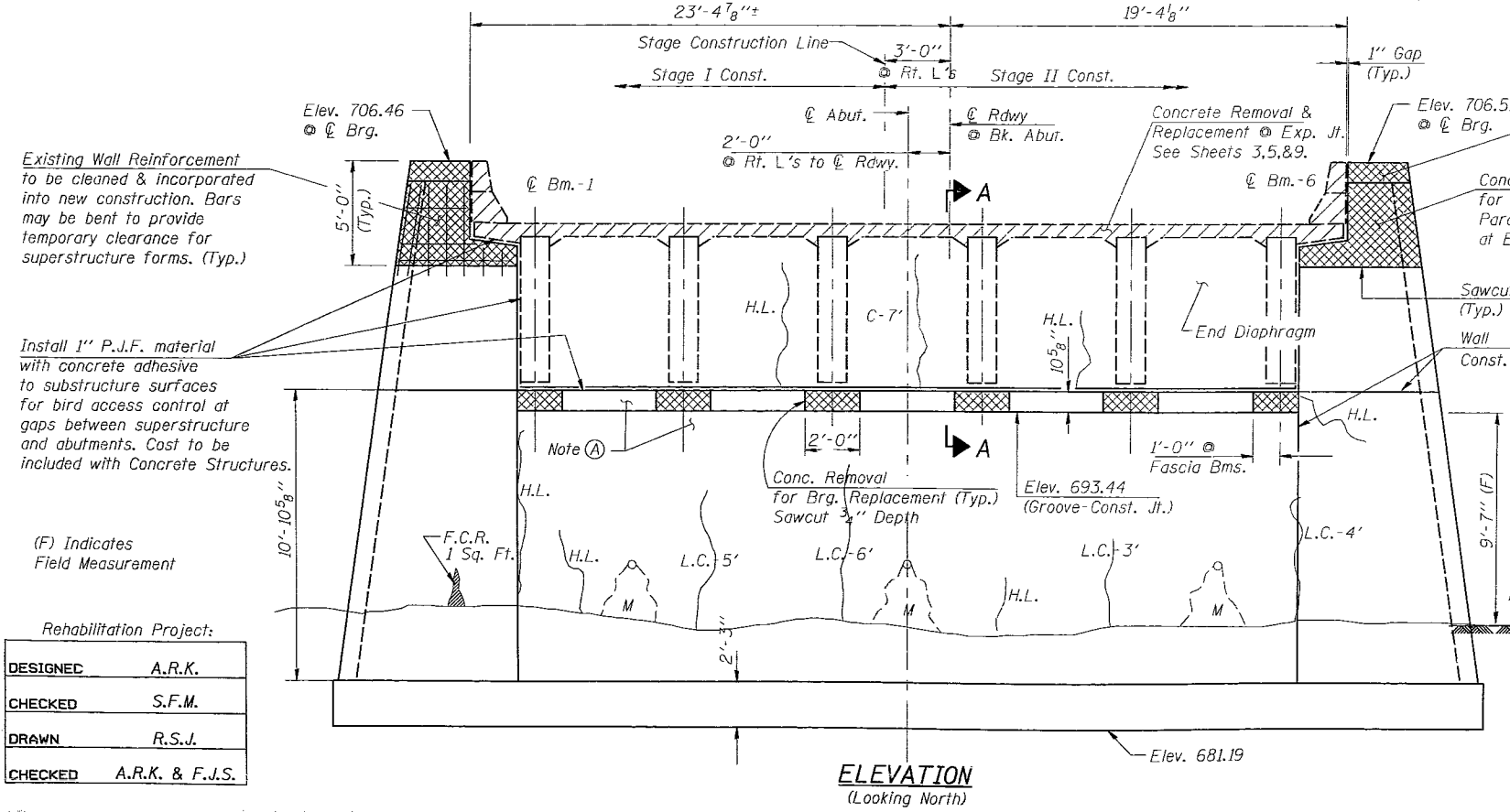


LEGEND

Inspection Date 7-18-00

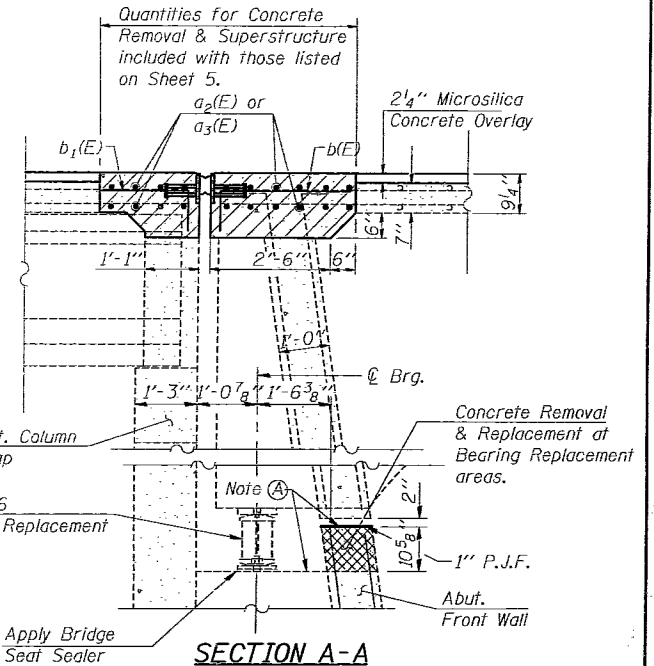
(M) Moisture Stain or Leached Area
 H.L. Hairline Crack - Not to be sealed
 C-6 Crack (>1/16" Width) Epoxy Crack Sealing
 L.C.-3' Leached Crack

Spall Area Sq. Ft.
 Formed Concrete Repair (F.C.R.) (Depth ≤ 5")



NORTH ABUTMENT QUANTITY SUMMARY

ITEM	QUANTITY
Epoxy Crack Sealing	25 Foot
Formed Concrete Repair (Depth ≤ 5")	1 Sq. Ft.
Controlled Low Strength Material	8 Cu. Yd.
Concrete Removal	3.3 Cu. Yd.
Bridge Seat Sealer	106 Sq. Ft.
Concrete Structures	3.3 Cu. Yd.



NOTE:
 ABUTMENT CRACK REPAIR LENGTHS AND F.C.R. AREAS ARE ESTIMATED FROM 7-18-00 SURVEY WORK. ACTUAL LOCATIONS AND QUANTITIES OF REPAIRS SHALL BE SHOWN BY THE ENGINEER ON AS-BUILT PLANS FOR THIS SECTION.

REVISIONS

NAME	DATE

Rehabilitation Project:

DESIGNED	A.R.K.
CHECKED	S.F.M.
DRAWN	R.S.J.
CHECKED	A.R.K. & F.J.S.

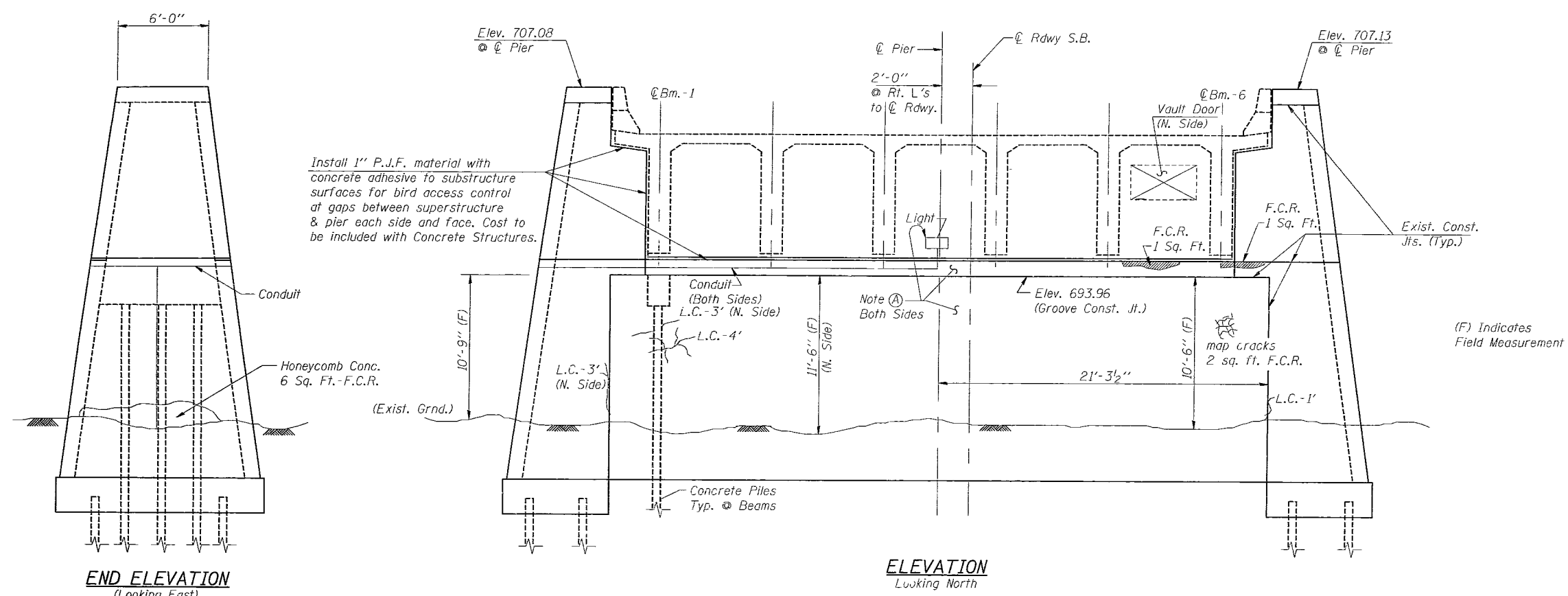
ILLINOIS DEPARTMENT OF TRANSPORTATION
NORTH ABUTMENT REPAIRS
 F.A.I. 55 OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10) RS&I
 McLEAN COUNTY
 STA. 297+80.50
 S.N. 057-0157

511 WEST CAPITOL
 SPRINGFIELD, IL 62704
 (217) 528-2958

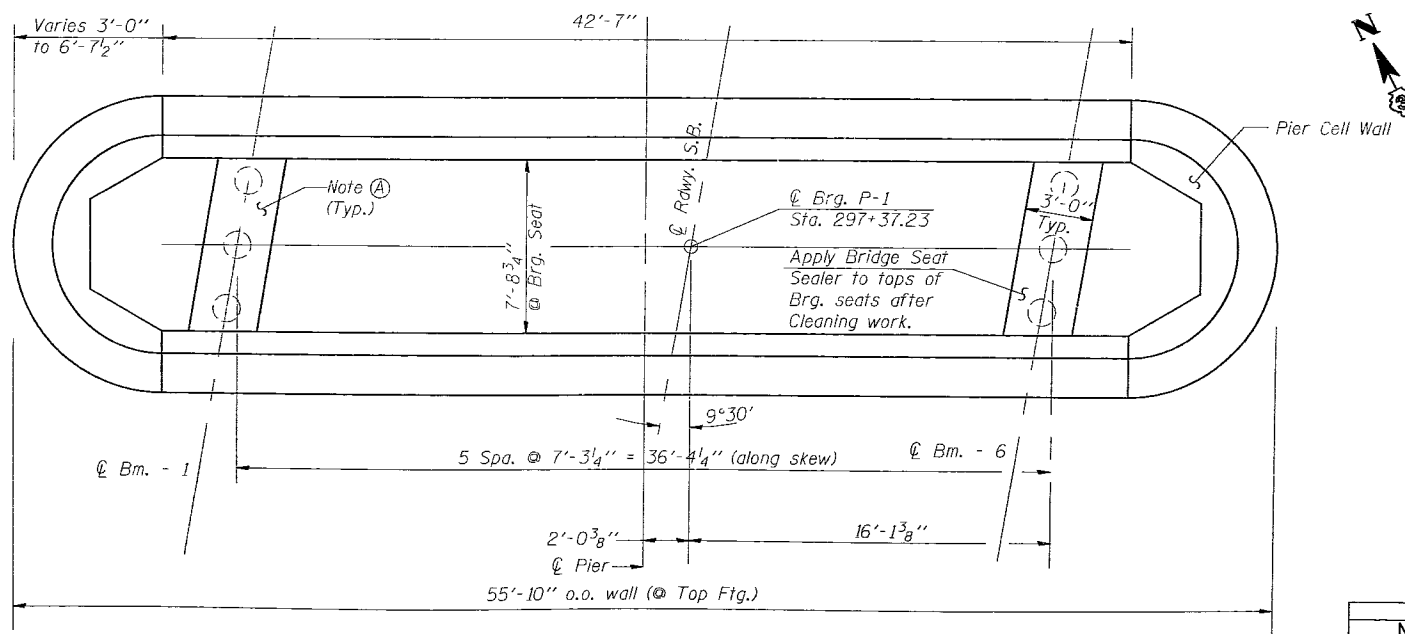
Ozyurt and Stone, Inc.
 CONSULTING ENGINEERS

JOB #: 99314
 FILE: NABUTREP157.DGN
 DATE: 11-27-00

Note (A) Moderate to heavy accumulation of pigeon excrement or stain present on walls and bent bearing seats. To be removed by Bridge Washing Special.



(F) Indicates Field Measurement



NOTE: PIER CRACK REPAIR & F.C.R. AREAS ARE ESTIMATED FROM 7-18-00 SURVEY WORK. ACTUAL LOCATIONS AND QUANTITIES OF REPAIRS SHALL BE SHOWN BY THE ENGINEER ON AS-BUILT PLANS FOR THIS SECTION.

QUANTITY SUMMARY - PIER 1

ITEM	QUANTITY
Epoxy Crack Sealing	11 Foot
Formed Concrete Repair (Depth \neq 5")	10 Sq. Ft.
Bridge Seat Sealer	141 Sq. Ft.

LEGEND

Inspection Date 7-18-00

- H.L. Hairline Crack - Not to be sealed
- C-6 Crack ($> \frac{1}{16}$ " Width) Epoxy Crack Sealing
- L.C.-3' Leached Crack } Epoxy Crack Sealing
- Spall Area Sq. Ft. Formed Concrete Repair (F.C.R.) (Depth \neq 5")

Rehabilitation Project

DESIGNED	A.R.K.
CHECKED	S.F.M.
DRAWN	P.J.J.
CHECKED	F.J.S.

PLAN
(@ Brg. Seat Elev.)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PIER 1 REPAIRS
 F.A.I. 55 - OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10) RS & I
 McLEAN COUNTY
 STA. 297+80.50
 S.N. 057-0157

DATE: _____ DRAWN BY: _____
 CHECKED BY: _____

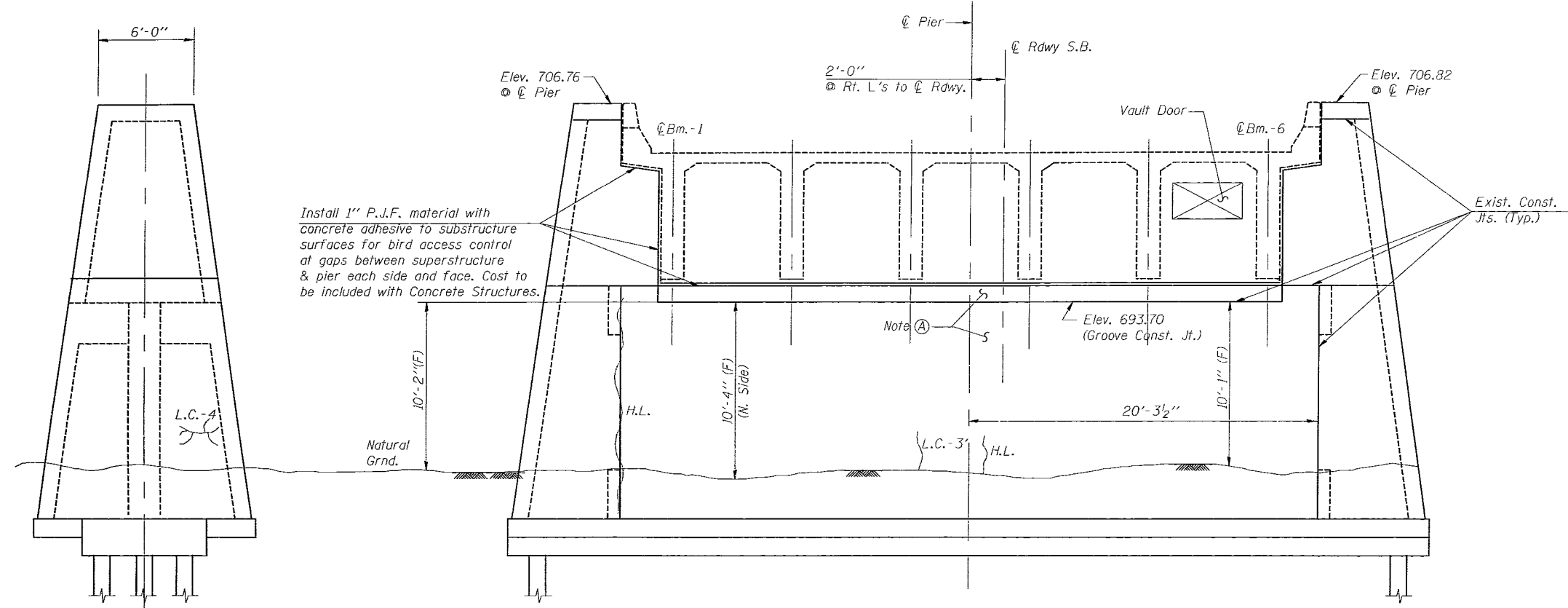
511 WEST CAPITOL SPRINGFIELD, IL 62704
 (217) 528-2958

Ozyurt and Stone, Inc.
 CONSULTING ENGINEERS

JOB #: 99314
 FILE: PIERREP157.DGN
 DATE: 11-27-00

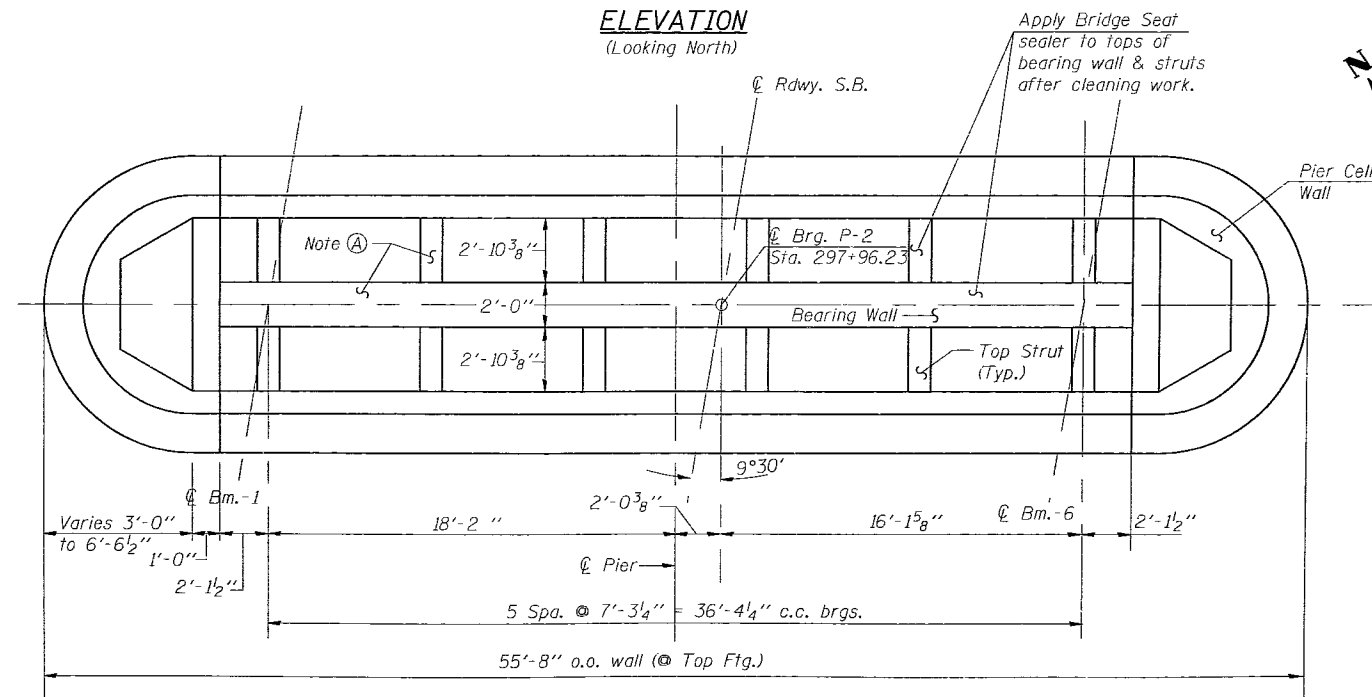
FBI RTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	**	McLEAN	163	105
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		
** (57-8, 57-9, 57-10) RS & I				
Sheet 21 of 25				
S.N. 057-0157 & 057-0158				

Note (A) Moderate to heavy accumulation of pigeon excrement or stain present on walls and bent bearing seats. To be removed by Bridge Washing Special.



ELEVATION
(Looking North)

END ELEVATION
(Looking East)



PLAN
(@ Brg. Seat Elev.)

NOTE: PIER CRACK REPAIR & F.C.R. AREAS ARE ESTIMATED FROM 7-18-00 SURVEY WORK. ACTUAL LOCATIONS AND QUANTITIES OF REPAIRS SHALL BE SHOWN BY THE ENGINEER ON AS-BUILT PLANS FOR THIS SECTION.

QUANTITY SUMMARY - PIER 2

ITEM	QUANTITY
Epoxy Crack Sealing	7 Foot
Bridge Seat Sealer	115 Sq. Ft.

LEGEND

Inspection Date 7-18-00

H.L. Hairline Crack - not to be sealed

C-6 Crack (>1/16" Width) } Epoxy Crack Sealing

L.C.-3 Leached Crack } Sealing

Rehabilitation Project

DESIGNED	A.R.K.
CHECKED	S.F.M.
DRAWN	P.J.J.
CHECKED	A.R.K. & F.J.S.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PIER 2 REPAIRS
 F.A.I. 55 - OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10) RS & I
 McLEAN COUNTY
 STA. 297+80.50
 S.N. 057-0157

DATE: _____ DRAWN BY: _____
 CHECKED BY: _____

511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958
Ozyurt and Stone, Inc.
 CONSULTING ENGINEERS

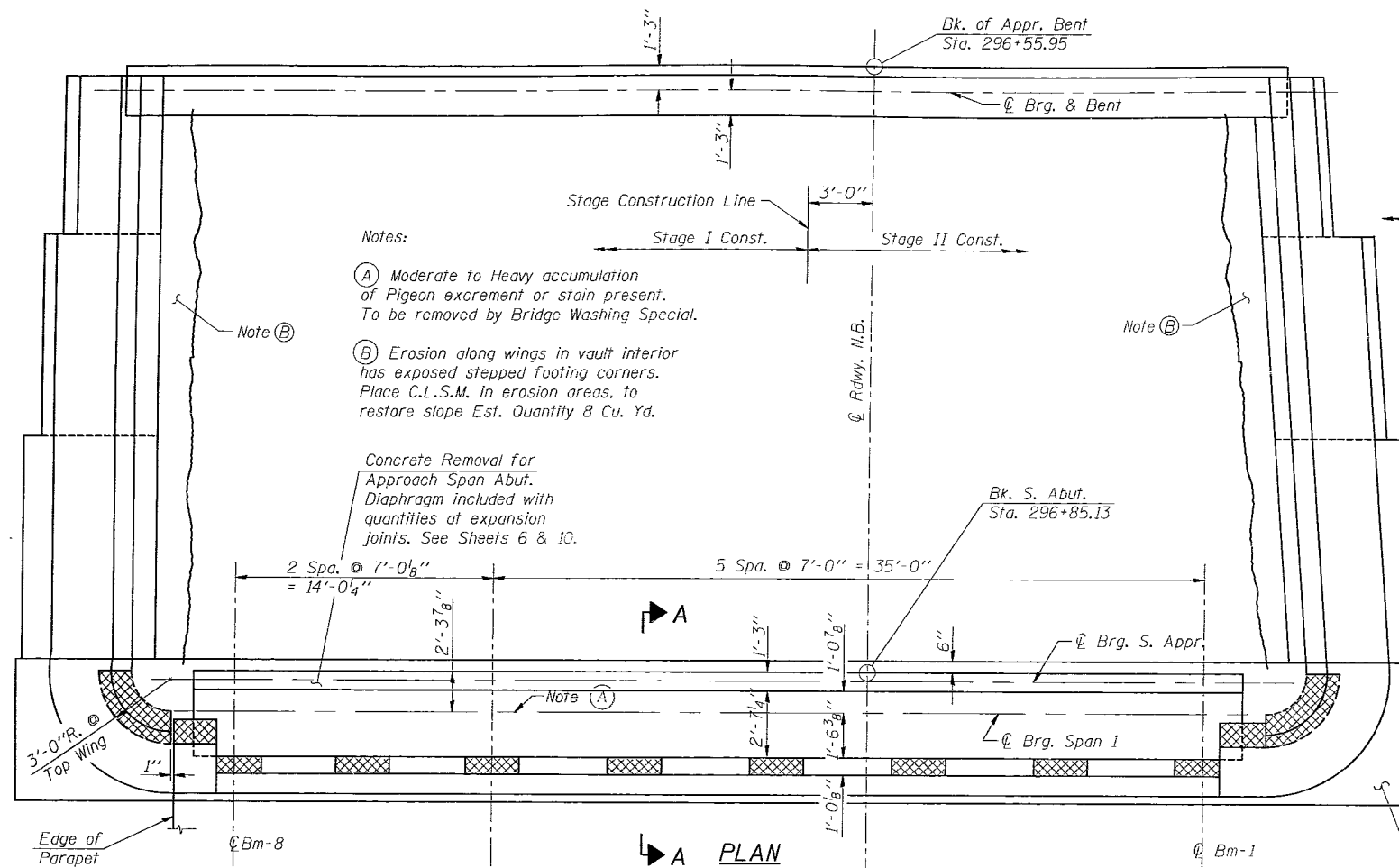
JOB #: 99314
 FILE: PIERREP157-2.DGN
 DATE: 11-27-00

**SOUTH ABUTMENT
QUANTITY SUMMARY**

ITEM	QUANTITY
Epoxy Crack Sealing	16 Foot
Controlled Low Strength Material	8 Cu. Yd.
Concrete Removal	3.4 Cu. Yd.
Bridge Seat Sealer	138 Sq. Ft.
Concrete Structures	3.4 Cu. Yd.

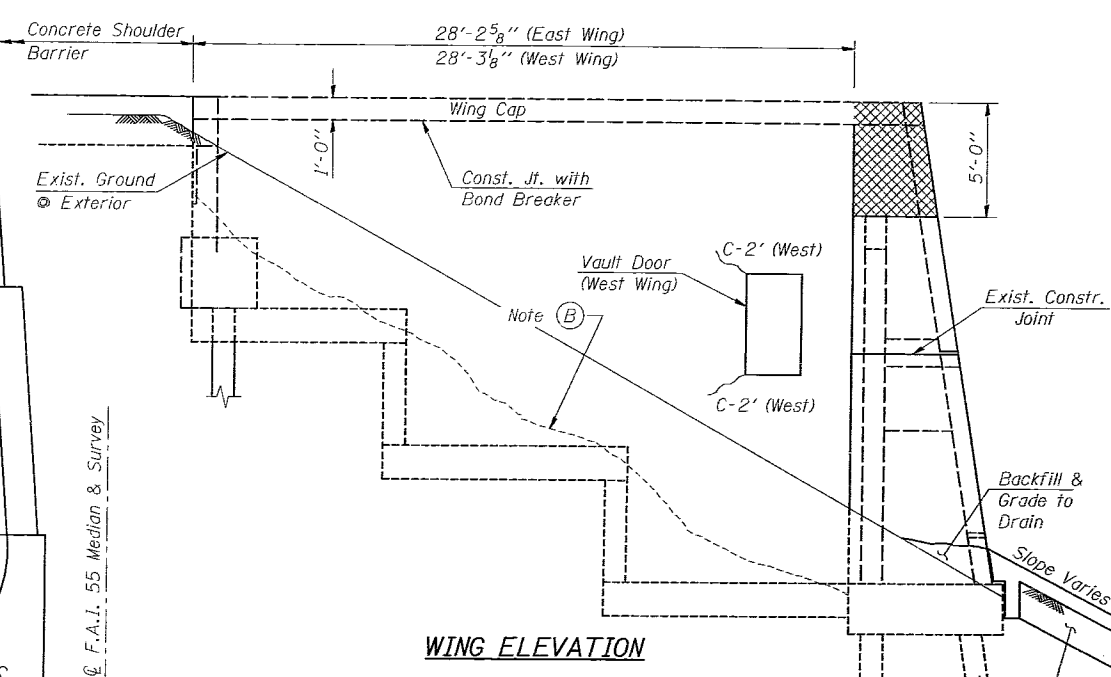
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	**	McLEAN	163	106

** (57-8, 57-9, 57-10) RS & I
Sheet 22 of 25
S.N.'s 057-0157 & 057-0158



Notes:
 (A) Moderate to Heavy accumulation of Pigeon excrement or stain present. To be removed by Bridge Washing Special.
 (B) Erosion along wings in vault interior has exposed stepped footing corners. Place C.L.S.M. in erosion areas, to restore slope Est. Quantity 8 Cu. Yd.

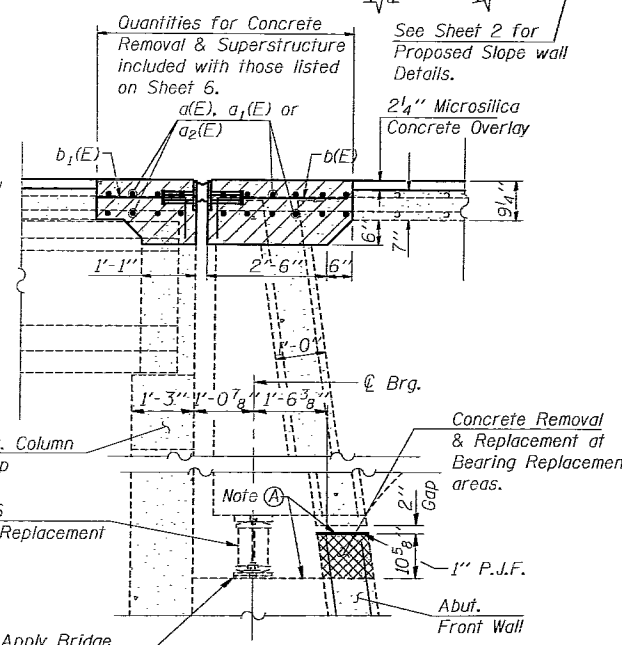
Concrete Removal for Approach Span Abut. Diaphragm included with quantities at expansion joints. See Sheets 6 & 10.



WING ELEVATION

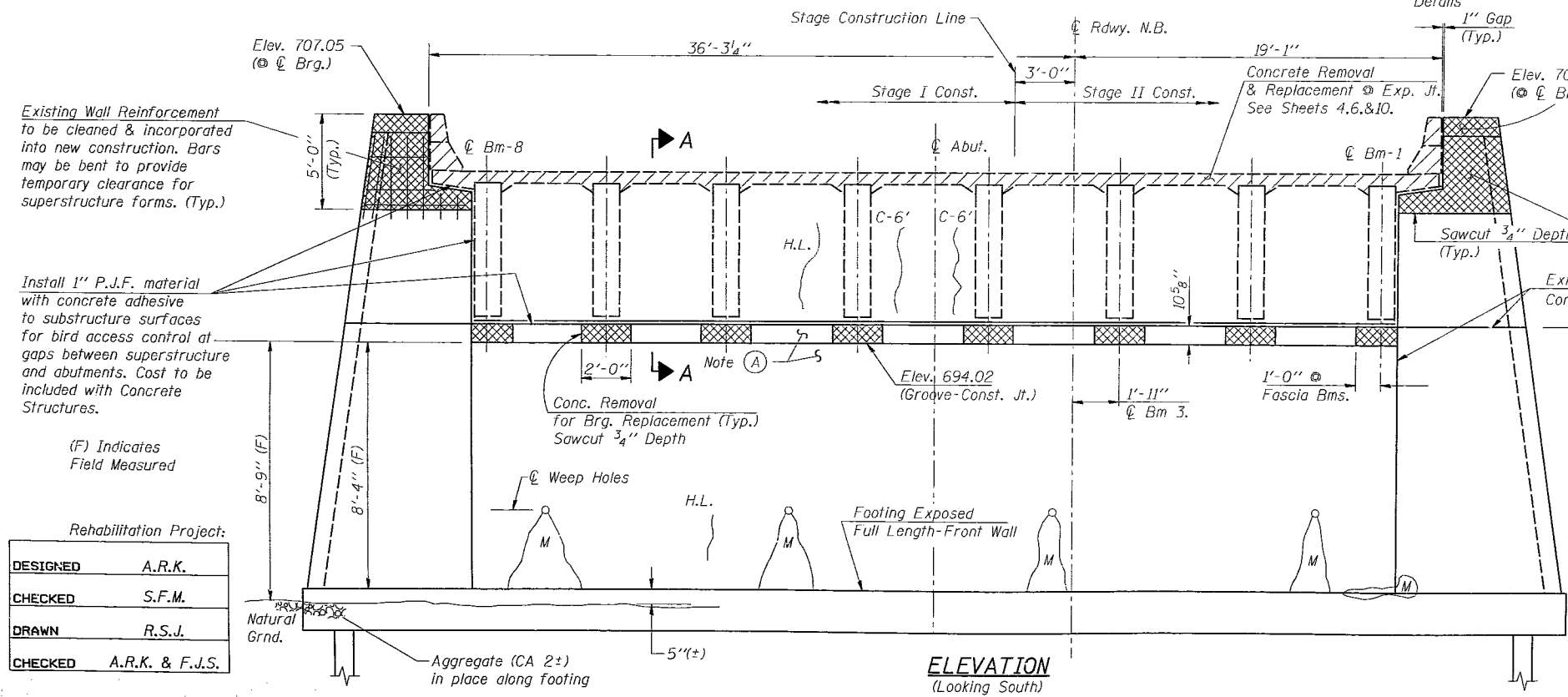
LEGEND

- Inspection Date 7-18-00
- (M) Moisture Stain or Leached Area
- H.L. Hairline Crack - Not to be sealed
- C-6 Crack (>1/8" Width) Epoxy Crack Sealing
- L.C.-3 Leached Crack



SECTION A-A

NOTE:
 ABUTMENT CRACK REPAIR LENGTHS AND F.C.R. AREAS ARE ESTIMATED FROM 7-18-00 SURVEY WORK. ACTUAL LOCATIONS AND QUANTITIES OF REPAIRS SHALL BE SHOWN BY THE ENGINEER ON AS-BUILT PLANS FOR THIS SECTION.



**ELEVATION
(Looking South)**

Existing Wall Reinforcement to be cleaned & incorporated into new construction. Bars may be bent to provide temporary clearance for superstructure forms. (Typ.)

Install 1" P.J.F. material with concrete adhesive to substructure surfaces for bird access control at gaps between superstructure and abutments. Cost to be included with Concrete Structures.

(F) Indicates Field Measured

Rehabilitation Project:

DESIGNED	A.R.K.
CHECKED	S.F.M.
DRAWN	R.S.J.
CHECKED	A.R.K. & F.J.S.

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOUTH ABUTMENT REPAIRS
 F.A.I. 55 OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10) RS&I
 McLEAN COUNTY
 STA. 297+80.50
 S.N. 057-0158

511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958

Ozyurt and Stone, Inc.
 CONSULTING ENGINEERS

JOB #: 99314
 FILE: SABUTREP158.DGN
 DATE: 11-27-00

**NORTH ABUTMENT
QUANTITY SUMMARY**

ITEM	QUANTITY
Epoxy Crack Sealing	45 Foot
Formed Concrete Repair (Depth \leq 5")	1 Sq. Ft.
Controlled Low Strength Material	8 Cu. Yd.
Concrete Removal	3.4 Cu. Yd.
Bridge Seat Sealer	129 Sq. Ft.
Concrete Structures	3.4 Cu. Yd.

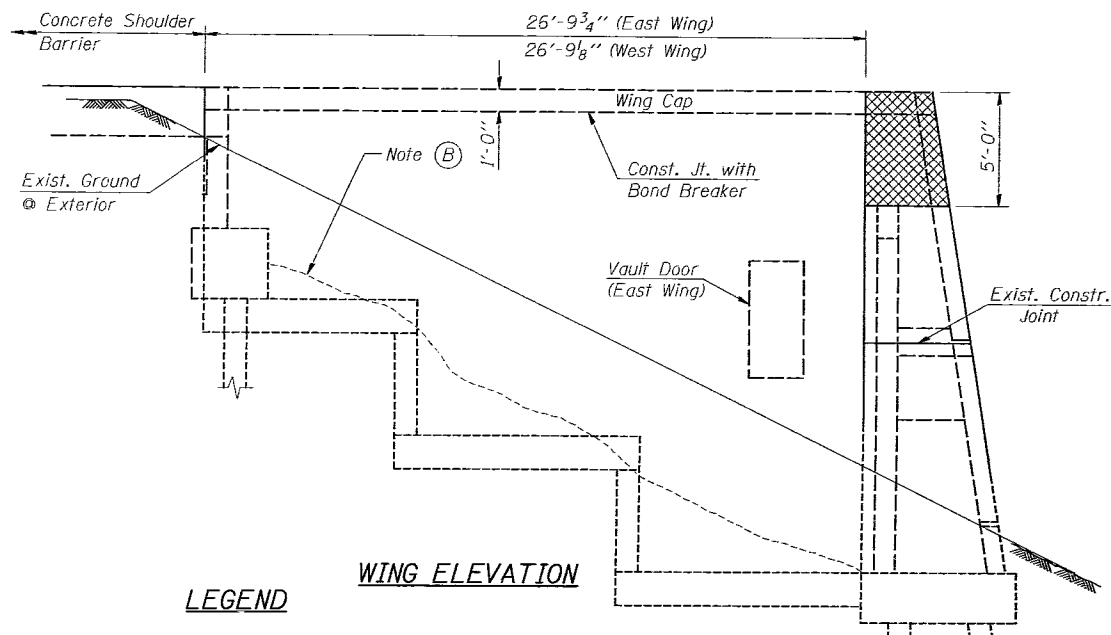
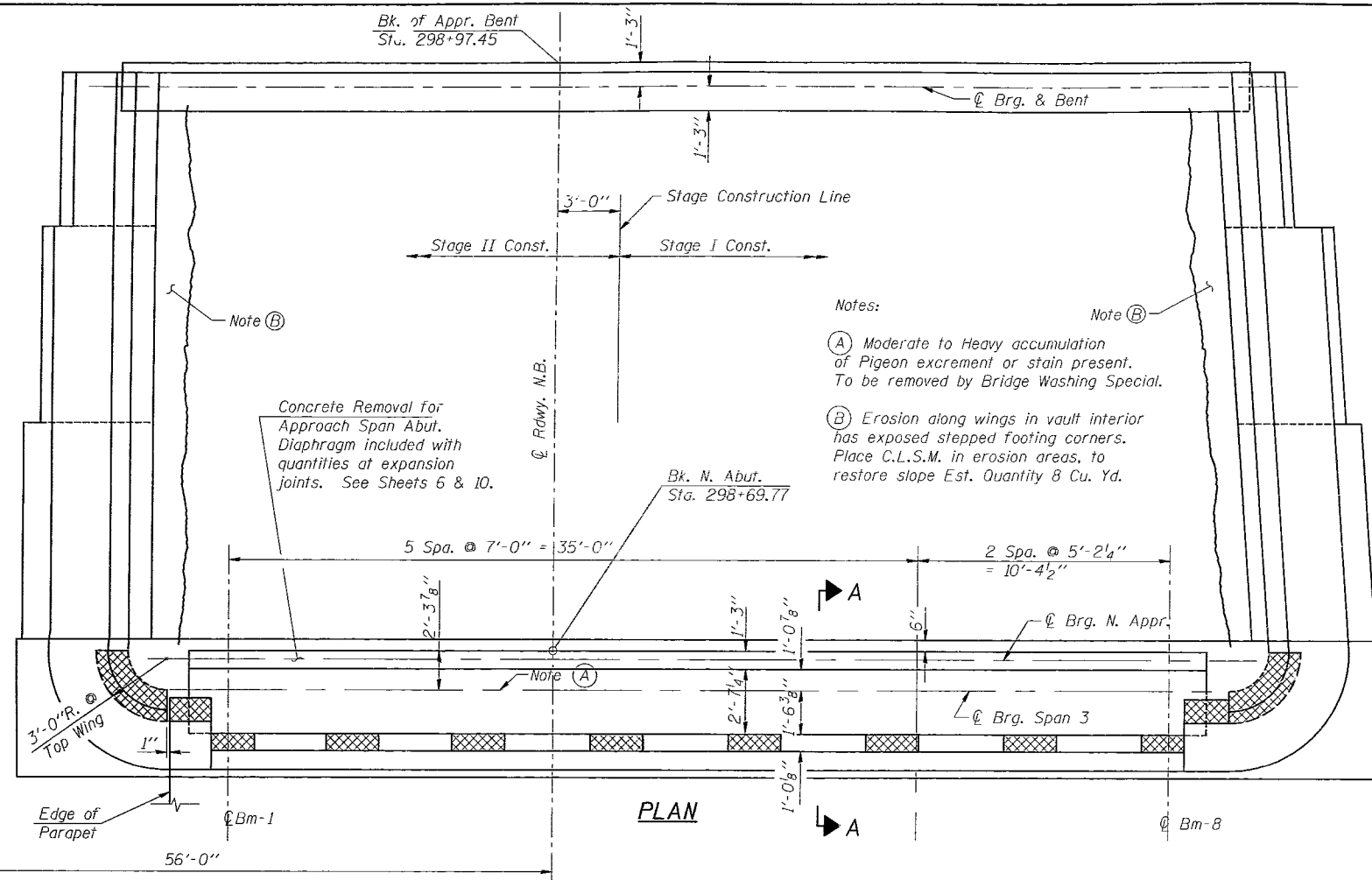
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	**	McLEAN	163	107

ROAD DISTRICT ILLINOIS

** (57-8, 57-9, 57-10) RS & I

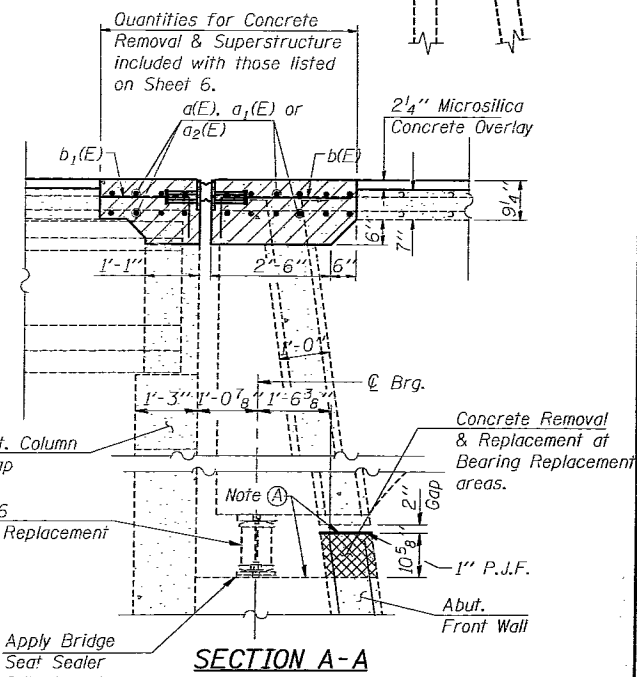
Sheet 23 of 25

S.N.'s 057-0157 & 057-0158



LEGEND

- (M) Inspection Date 7-18-00
- (L) Moisture Stain or Leached Area
- H.L. Hairline Crack - Not to be sealed
- C-6' Crack (>1/16" Width) Epoxy Crack Sealing
- L.C.-3' Leached Crack
- Spall Area Sq. Ft. Formed Concrete Repair (F.C.R.) (Depth \leq 5")



NOTE:
ABUTMENT CRACK REPAIR LENGTHS AND F.C.R. AREAS ARE ESTIMATED FROM 7-18-00 SURVEY WORK. ACTUAL LOCATIONS AND QUANTITIES OF REPAIRS SHALL BE SHOWN BY THE ENGINEER ON AS-BUILT PLANS FOR THIS SECTION.

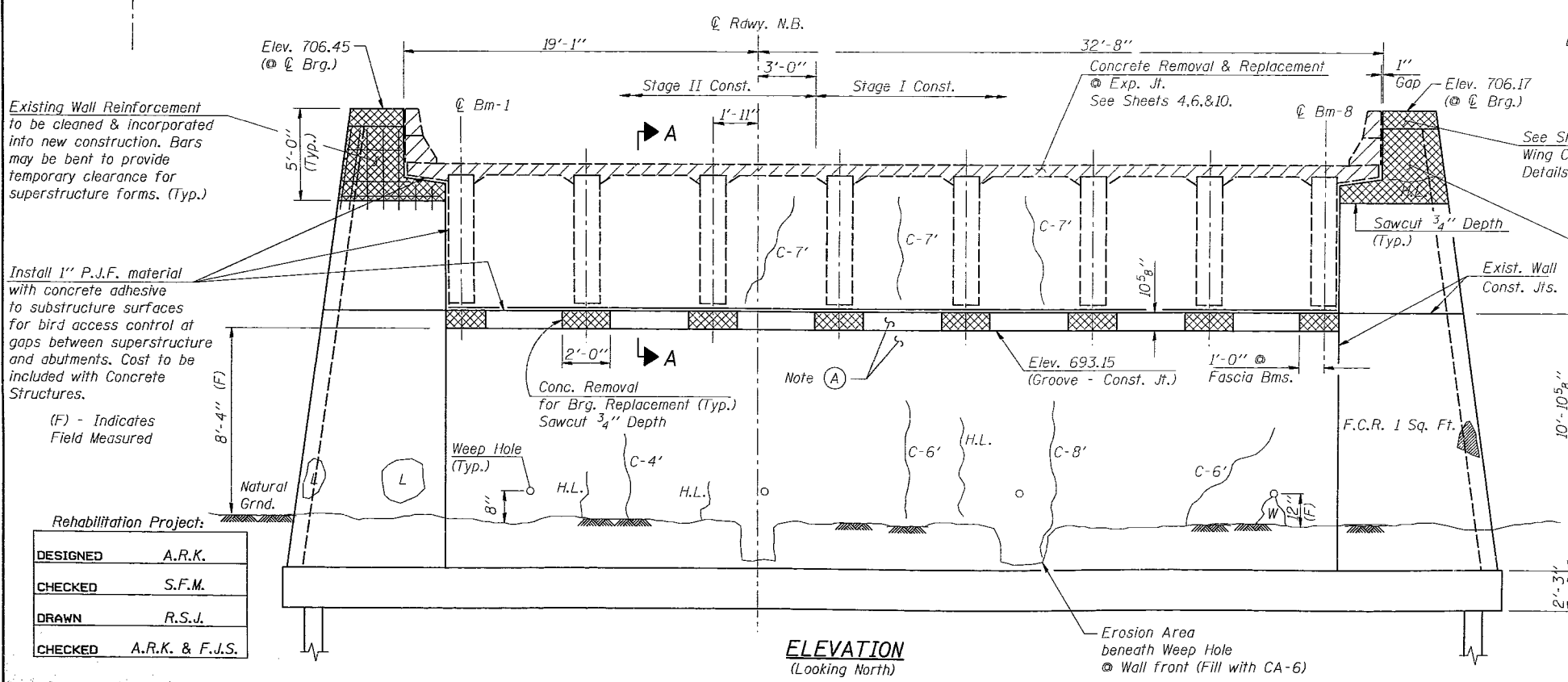
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
NORTH ABUTMENT REPAIRS
 F.A.I. 55 OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10) RS&I
 McLEAN COUNTY
 STA. 297+80.50
 S.N. 057-0158

511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958

Ozyurt and Stone, Inc.
 CONSULTING ENGINEERS

JOB #: 99314
 FILE: NABUTREP158.DGN
 DATE: 11-27-00



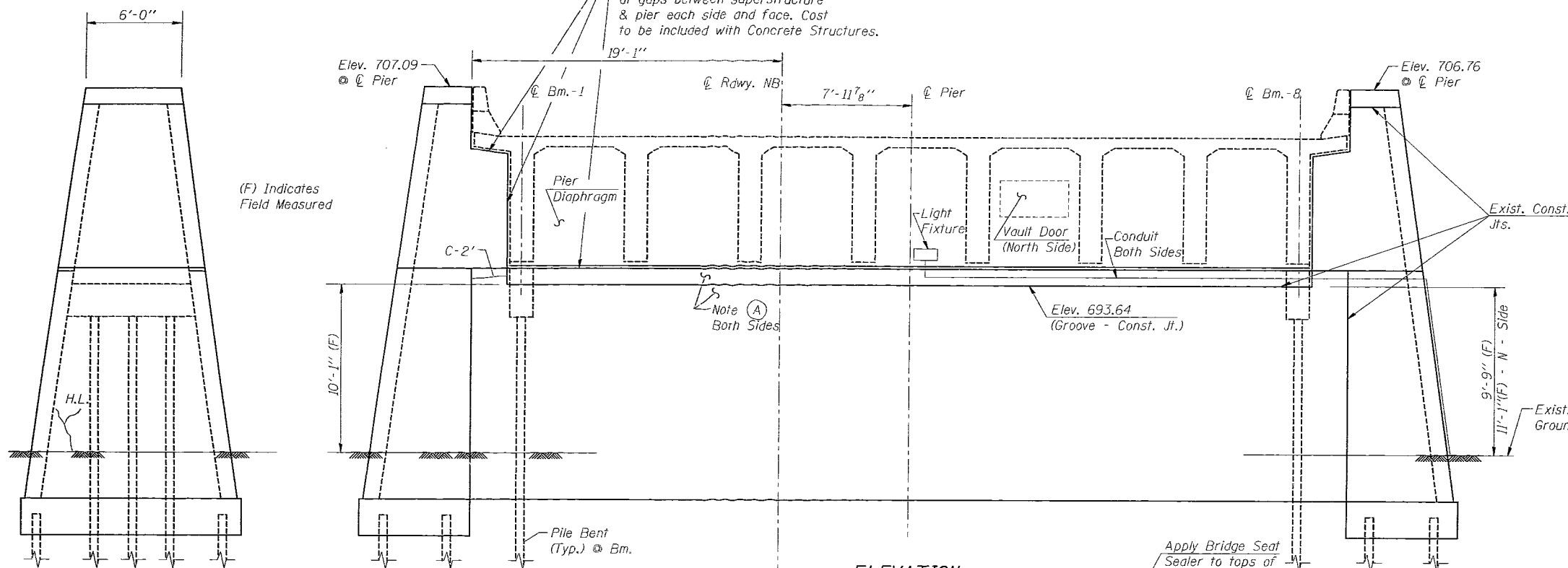
F.A.I. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	**	McLEAN	163	108
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		

** (57-8, 57-9, 57-10) RS & I
 Sheet 24 of 25
 S.N. 057-0157 & 057-0158

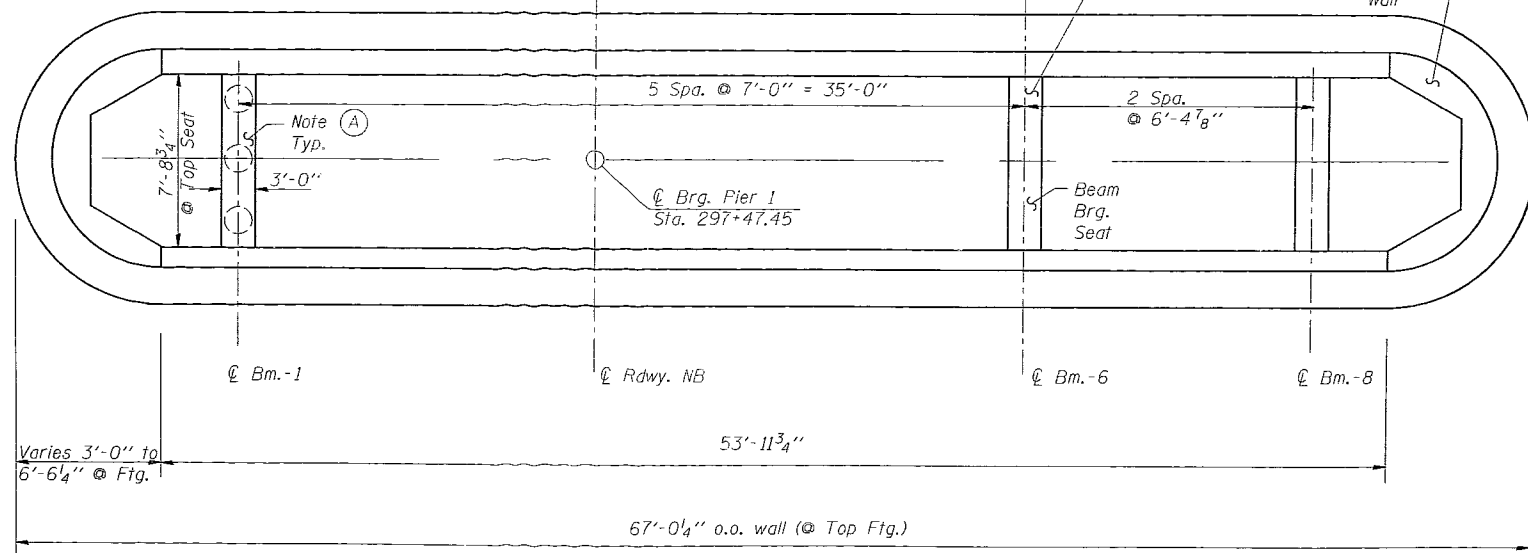
Notes:

(A) Moderate to heavy accumulation of pigeon excrement or stain present on walls and vault bearing seats. To be removed by Bridge Washing Special.

Install 1" P.J.F. material with concrete adhesive to substructure surfaces for bird access control at gaps between superstructure & pier each side and face. Cost to be included with Concrete Structures.



ELEVATION
 (Looking North)



PLAN
 (@ Brg. Seat Elev.)

(F) Indicates Field Measured

END ELEVATION
 Looking East

LEGEND

Inspection Date 7-18-00

- H.L. Hairline Crack - Not to be sealed
- C-6 Crack (> 1/16" Width) } Epoxy Crack Sealing
- L.C.-3 Leached Crack }

Rehabilitation Project	
DESIGNED	A.R.K.
CHECKED	S.F.M.
DRAWN	P.J.J.
CHECKED	A.R.K. & F.J.S.

NOTE: PIER CRACK REPAIR & F.C.R. AREAS ARE ESTIMATED FROM 7-18-00 SURVEY WORK. ACTUAL LOCATIONS AND QUANTITIES OF REPAIRS SHALL BE SHOWN BY THE ENGINEER ON AS-BUILT PLANS FOR THIS SECTION.

QUANTITY SUMMARY - PIER 1

ITEM	QUANTITY
Epoxy Crack Sealing	2 Foot
Bridge Seat Sealer	186 Sq. Ft.

ILLINOIS DEPARTMENT OF TRANSPORTATION
PIER 1 REPAIRS
 F.A.I. 55 - OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10) RS & I
 McLEAN COUNTY
 STA. 297+80.50
 S.N. 057-0158

REVISIONS	
NAME	DATE

DATE: 11-27-00
 511 WEST CAPITOL SPRINGFIELD, IL 62704 (217) 528-2958
Ozyurt and Stone, Inc.
 CONSULTING ENGINEERS
 JOB #: 99314
 FILE: PIERREPS8.DGN
 DATE: 11-27-00

DRAWN BY:
 CHECKED BY:

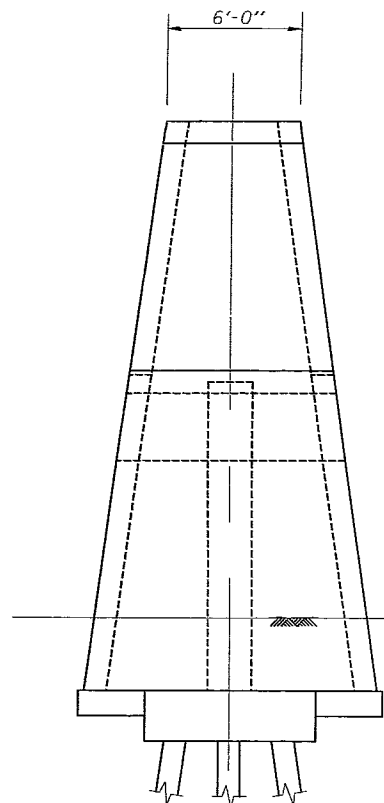
FBI RTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	**	McLEAN	163	109
FED. RD. DIST. NO.	ILLINOIS		FED. AID PROJECT	

** (57-8, 57-9, 57-10) RS & I
 Sheet 25 of 25
 S.N. 057-0157 & 057-0158

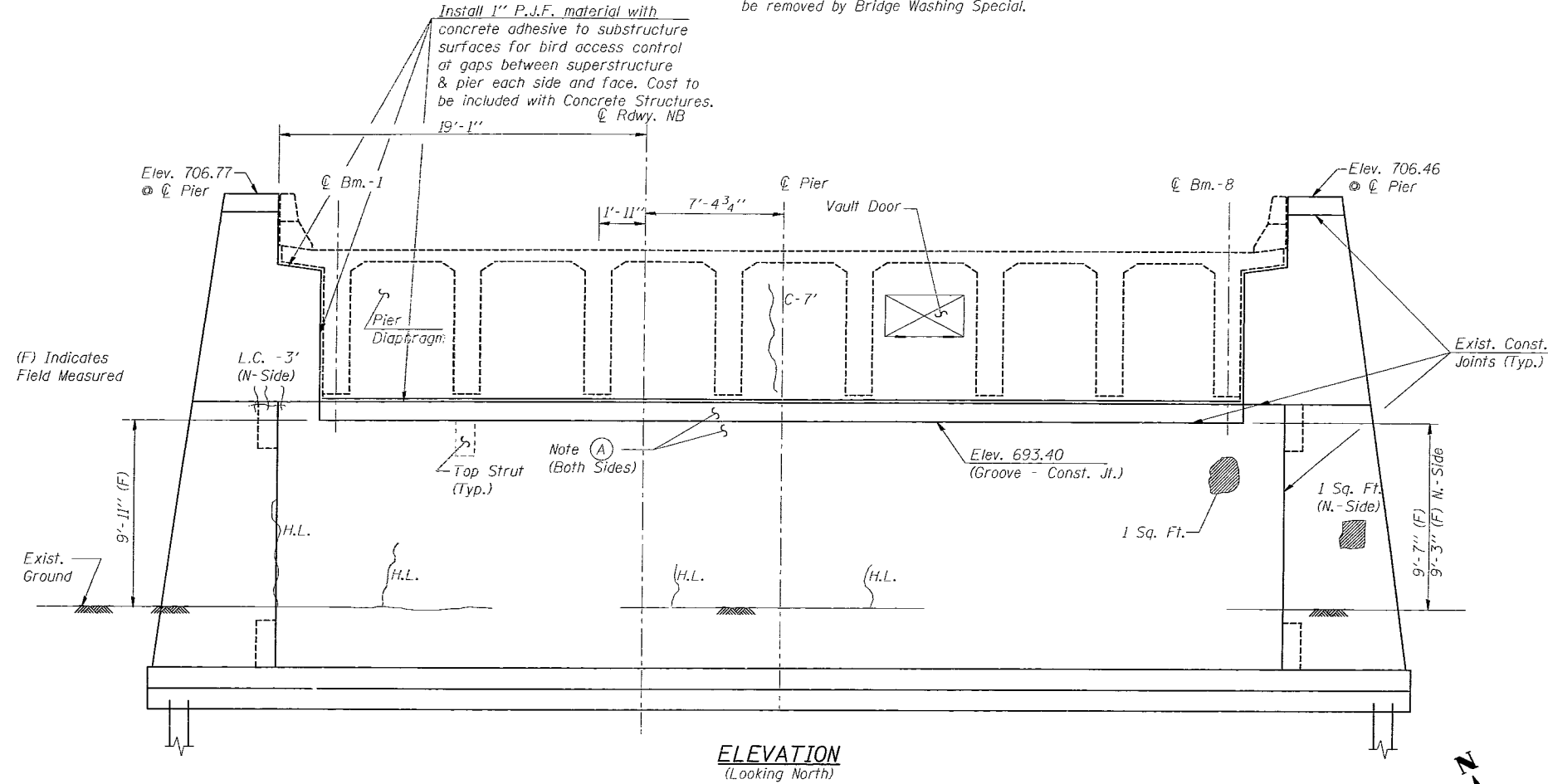
Notes:

(A) Moderate to heavy accumulation of pigeon excrement or stain present on walls and vault bearing seats. To be removed by Bridge Washing Special.

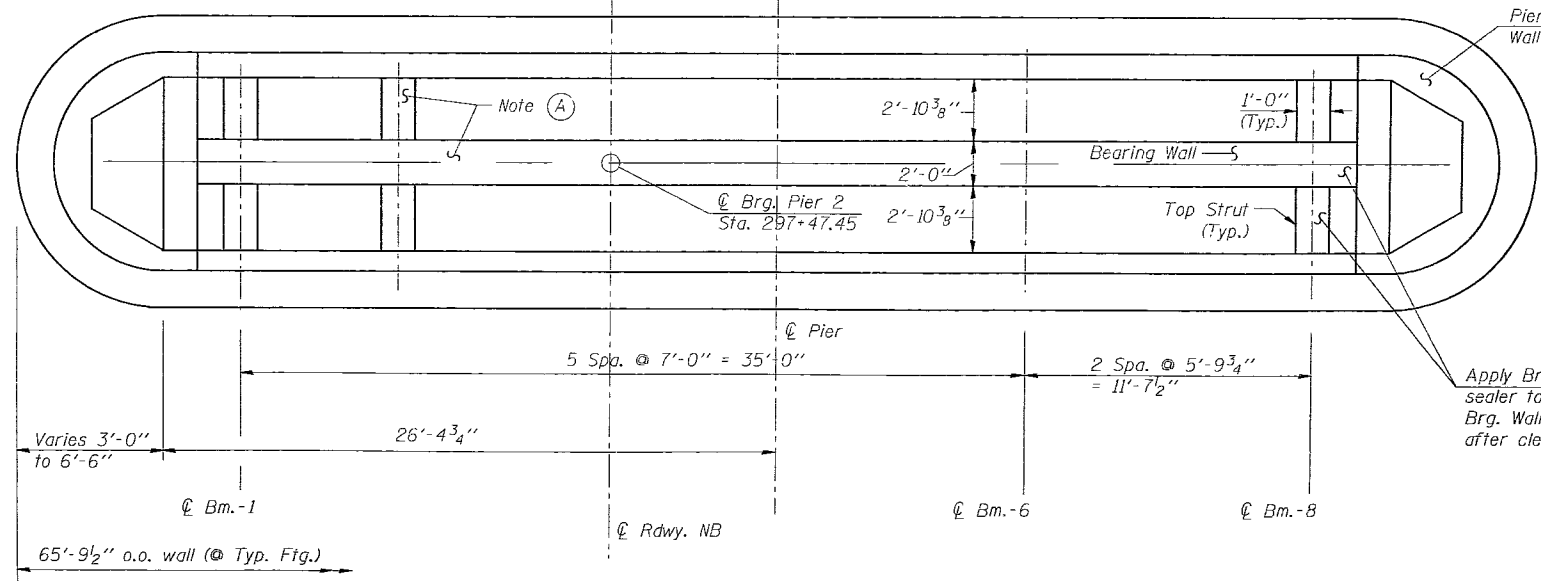
Install 1" P.J.F. material with concrete adhesive to substructure surfaces for bird access control at gaps between superstructure & pier each side and face. Cost to be included with Concrete Structures.
 19'-1" @ Rdwy. NB



END ELEVATION
Looking East



ELEVATION
(Looking North)



PLAN
(@ Brg. Seat Elev.)

LEGEND

Inspection Date 7-18-00

- H.L. Hairline Crack - Not to be sealed
- C-6 Crack (>1/16" Width) } Epoxy Crack Sealing
- L.C.-3' Leached Crack } Epoxy Crack Sealing
- Spall Area Sq. Ft. Formed Concrete Repair (Depth ≤ 5")

Rehabilitation Project

DESIGNED	A.R.K.
CHECKED	S.F.M.
DRAWN	P.J.J.
CHECKED	F.J.S.

NOTE: PIER CRACK REPAIR & F.C.R. AREAS ARE ESTIMATED FROM 7-18-00 SURVEY WORK. ACTUAL LOCATIONS AND QUANTITIES OF REPAIRS SHALL BE SHOWN BY THE ENGINEER ON AS-BUILT PLANS FOR THIS SECTION.

QUANTITY SUMMARY - PIER 2

ITEM	QUANTITY
Epoxy Crack Sealing	10 Foot
Formed Concrete Repair (Depth ≤ 5")	2 Sq. Ft.
Bridge Seat Sealer	147 Sq. Ft.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PIER 2 REPAIRS
 F.A.I. 55 - OVER C.H. 36 & RAMP A
 SECTION (57-8, 57-9, 57-10) RS & I
 McLEAN COUNTY
 STA. 297+80.50
 S.N. 057-0158

DATE: _____ DRAWN BY: _____
 CHECKED BY: _____

511 WEST CAPITOL SPRINGFIELD, IL 62704
 (217) 528-2958

Ozyurt and Stone, Inc.
 CONSULTING ENGINEERS

JOB #: 99314
 FILE: PIERREP158-2.DGN
 DATE: 11-27-00