

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49 *	1

FOR INDEX OF SHEETS SEE SHEET 2

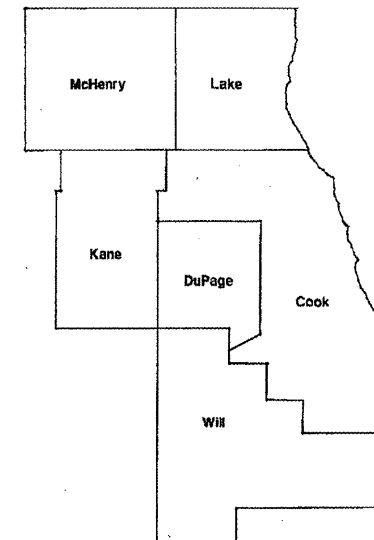
* 49 + 4 = 53

CONTRACT NO: 60P78

STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT ONE
PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
 VARIOUS LOCATIONS
 SECTION 2011-060-BR
 DOWNSPOUT & CONCRETE REPAIRS
 COOK COUNTY
 C-91-615-11

D-91-615-11



LOCATION OF IMPROVEMENT INDICATED THUS:

IMPROVEMENTS ARE LOCATED IN THE CITY OF CHICAGO

SEE LOCATION MAPS SHEETS 6 - 12

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: SEPTEMBER 7, 2011

Diane M. O'Keefe
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 14 2011
Scott E. Stett, PE
 acting ENGINEER OF DESIGN AND ENVIRONMENT

October 14 2011
Christine M. Reed
 DIRECTOR, DIVISION OF HIGHWAYS

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OF THE STATE OF ILLINOIS

C.U.A.N.
 CHICAGO UTILITY ALERT NETWORK
 (312) 744-7000

DISTRICT ONE - DESIGN - PLAN PREPARATION
 ISSAM RAYYAN / ROBERT BORO (847)-705-4178

CONTRACT NO. 60P78

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	2

INDEX OF SHEETS

STATE STANDARDS

1	TITLE SHEET	701101-02	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
2	INDEX OF SHEETS & STATE STANDARDS	701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
3	GENERAL NOTES	701400-05	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
4	SUMMARY OF QUANTITIES	701401-06	LANE CLOSURE, FREEWAY/EXPRESSWAY
5	SCHEDULE OF QUANTITIES	701406-06	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
6 - 12	LOCATION MAPS	701411-07	
13 - 15	STRUCTURAL REPAIRS (SN: 016-1007)	701601-07	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
16 - 17	STRUCTURAL REPAIRS (SN: 016-0189)	701801-04	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
18 - 20	STRUCTURAL REPAIRS (SN: 016-1146)	701901-01	TRAFFIC CONTROL DEVICES
21 - 22	STRUCTURAL REPAIRS (SN: 016-1144)		
23 - 24	STRUCTURAL REPAIRS (SN: 016-1143)		
25 - 26	STRUCTURAL REPAIRS (SN: 016-1142)		
27 - 28	STRUCTURAL REPAIRS (SN: 016-0437)		
29 - 30	STRUCTURAL REPAIRS (SN: 016-1156)		
31 - 32	STRUCTURAL REPAIRS (SN: 016-1151)		
33 - 34	STRUCTURAL REPAIRS (SN: 016-2036)		
35 - 36	STRUCTURAL REPAIRS (SN: 016-2127)		
37 - 39	STRUCTURAL REPAIRS (SN: 016-2031)		
40 - 42	STRUCTURAL REPAIRS (SN: 016-2032)		
43 - 44A	STRUCTURAL REPAIRS (SN: 016-0588)		
45 - 46	STRUCTURAL REPAIRS (SN: 016-1083)		
47 - 48	STRUCTURAL REPAIRS (SN: 016-1160)		
49	ARTERIAL ROAD INFORMATION SIGN (TC-22)		
49A	<i>FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-B)</i>		
49B	<i>TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE (TC-9)</i>		
49C	<i>TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PARTIAL RAMP CLOSURES (TC-17)</i>		

ILLINOIS DEPARTMENT OF
TRANSPORTATION

INDEX OF SHEETS
STATE STANDARDS

Rev.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
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CONTRACT NO. 60P78

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N." (CHICAGO UTILITY ALERT NETWORK AT (312)744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

THE " ARTERIAL ROAD INFORMATION SIGN (TC-22) IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS.

THE CONTRACTOR SHALL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BRIDGE INSPECTORS.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT (847)705-4470 FOR ARTERIALS AND (847)705-4151 FOR EXPRESSWAYS, A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

**ILLINOIS DEPARTMENT OF
TRANSPORTATION**

GENERAL NOTES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	4

SUMMARY OF QUANTITIES			100% STATE URBAN
CODE NO.	ITEM	UNIT	TOTAL QUANTITIES
			<i>0014</i>
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3
67100100	MOBILIZATION	L SUM	1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
X7011015	TRAFFIC CONTROL AND PROTECTION, (EXPRESSWAYS)	L SUM	1
Z0006710	BRIDGE DRAINAGE SYSTEM REPAIR	FOOT	442
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	213
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	128.5
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1
<i>Z0018500</i>	<i>DRAINAGE STRUCTURES TO BE CLEANED</i>	<i>EACH</i>	<i>10</i>
<i>70200100</i>	<i>NIGHTTIME WORK ZONE LIGHTING</i>	<i>L SUM</i>	<i>1</i>
<i>Z0010605</i>	<i>CLEANING DRAINAGE SYSTEM</i>	<i>L SUM</i>	<i>1</i>

ILLINOIS DEPARTMENT OF
TRANSPORTATION
SUMMARY OF QUANTITIES

Rev.

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ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	5

CONTRACT NO: 60P78

DESCRIPTION	SCHEDULE															
	LOC. 1	LOC. 2	LOC. 3	LOC. 4	LOC. 5	LOC. 6	LOC. 7	LOC. 8	LOC. 9	LOC. 10	LOC. 11	LOC. 12	LOC. 13	LOC. 14	LOC. 15	LOC. 16
	016-1007	016-0189	016-1146	016-1144	016-1143	016-1142	016-0437	016-1156	016-1151	016-2036	016-2127	016-2031	016-2032	016-0588	016-1083	016-1160
TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	X															
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	X															
TRAFFIC CONTROL AND PROTECTION EXPRESSWAYS	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X
BRIDGE DRAINAGE SYSTEM REPAIRS	184		16	15	15	36	3	15	20	19	16	33	22	20	4	26
CLEANING DRAINAGE SYSTEM	1															
STRUCTURAL REPAIR OF CONCRETE ≤ 5"	30	63					120									
RAILROAD PROTECTIVE LIABILITY INSURANCE	X							X								
NIGHTTIME WORK ZONE LIGHTING	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X

ILLINOIS DEPARTMENT OF
TRANSPORTATION

SCHEDULE OF QUANTITIES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	6

CONTRACT NO. 60P78

TRAFFIC DATA:

WENTWORTH AVE.

2010 ADT = 8,900

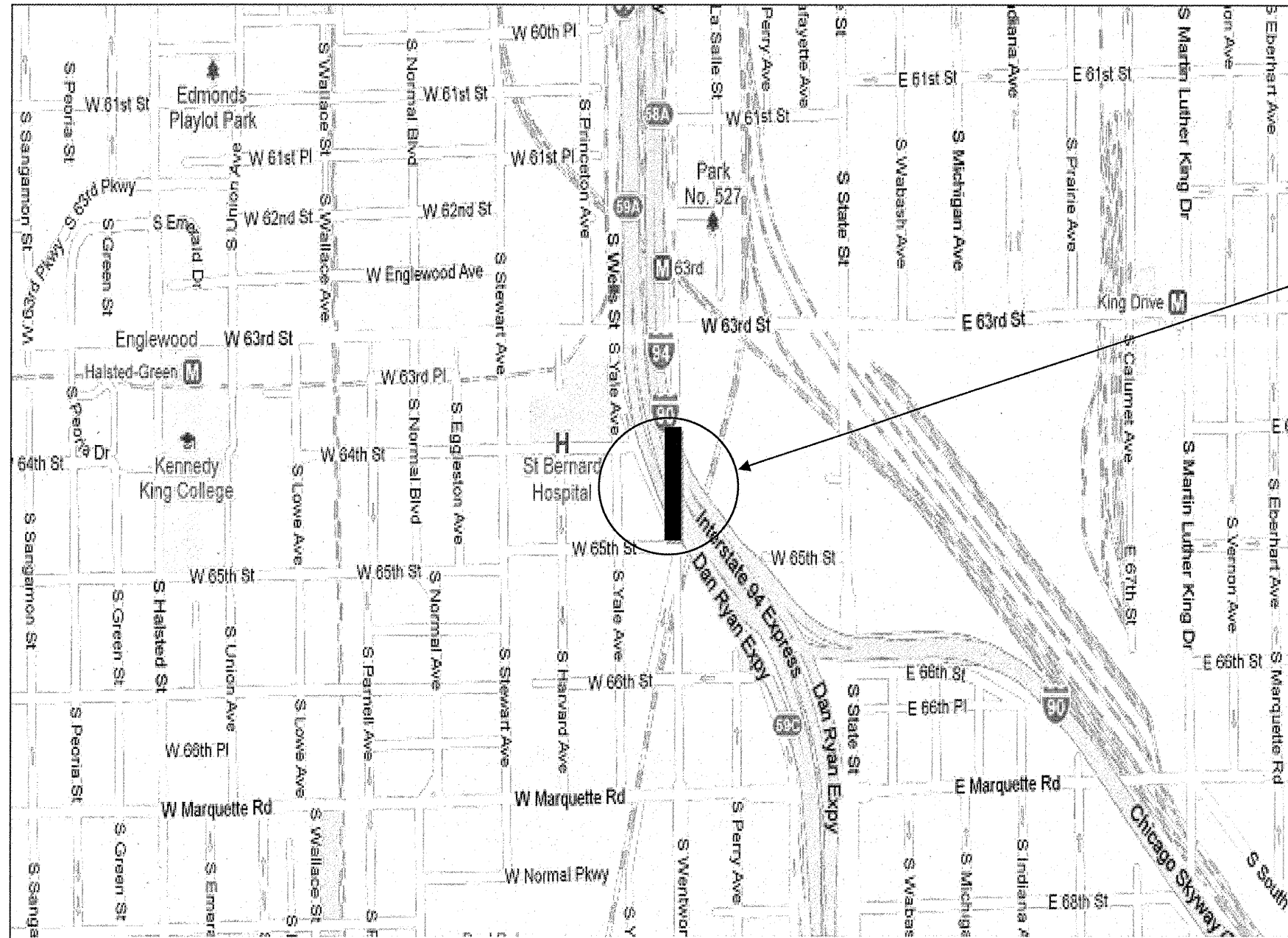
POSTED SPEED LIMIT = 30 MPH

I-90/94

2009 ADT = 233,900

POSTED SPEED LIMIT = 55 MPH

T 38 N



LOCATION 1
SN 016-1007
WENTWORTH AVE.
OVER I-90/94

LAKE TOWNSHIP

ILLINOIS DEPARTMENT OF
TRANSPORTATION
LOCATION 1

WENTWORTH AVE. OVER I-90/94
(DAN RYAN EXPY)

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	7

CONTRACT NO. 60P78

TRAFFIC DATA:

69TH ST.
 2010 ADT = 8,500
 POSTED SPEED LIMIT = 30 MPH

71ST ST.
 2010 ADT = 14,200
 POSTED SPEED LIMIT = 30 MPH

79TH ST.
 2010 ADT = 17,200
 POSTED SPEED LIMIT = 30 MPH

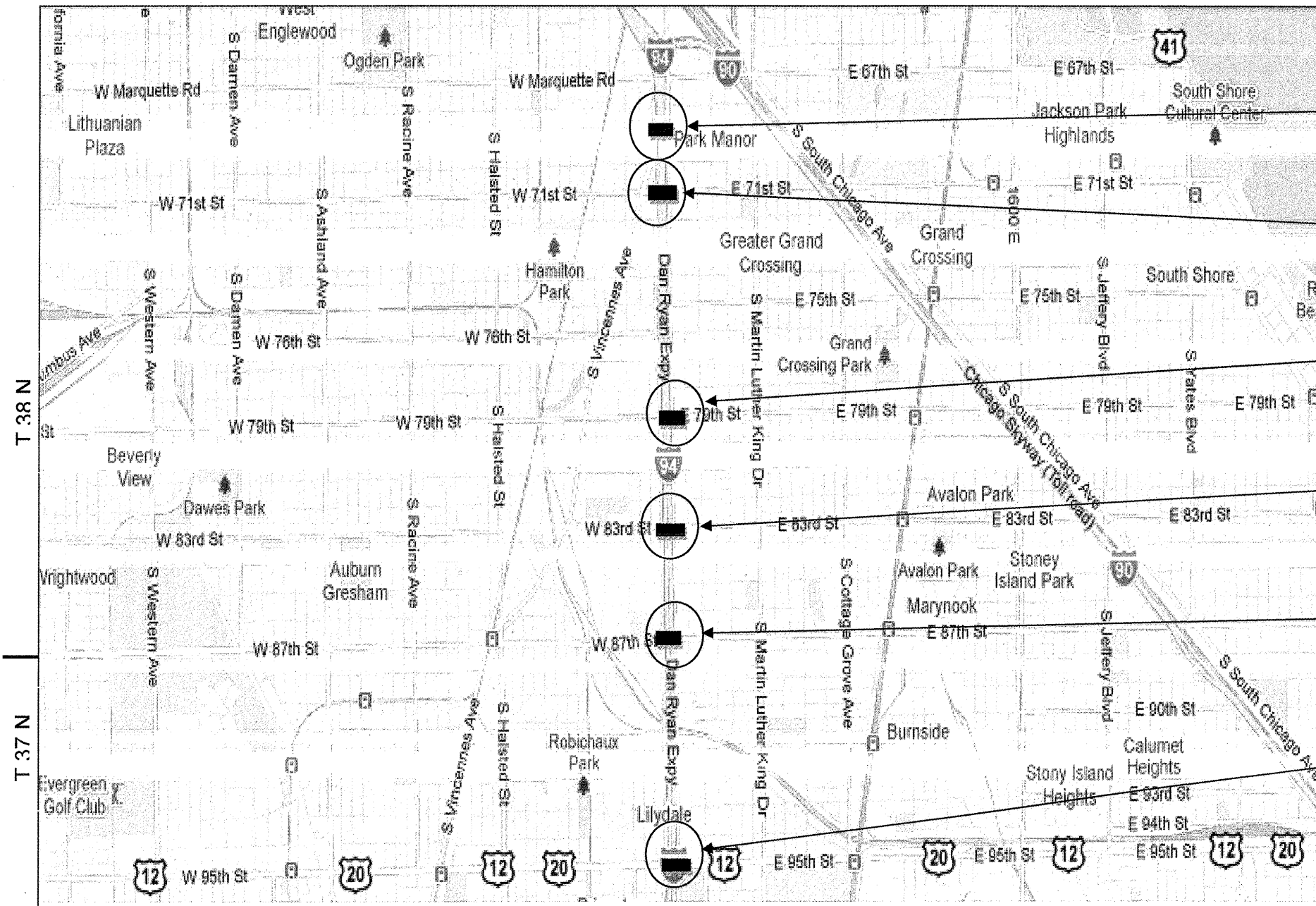
83RD ST.
 2010 ADT = 15,800
 POSTED SPEED LIMIT = 30 MPH

87TH ST.
 2010 ADT = 30,400
 POSTED SPEED LIMIT = 35 MPH

95TH ST.
 2009 ADT = 20,000
 POSTED SPEED LIMIT = 35 MPH

I-94
 2009 ADT = 220,000
 POSTED SPEED LIMIT = 55 MPH

R 14 E



LOCATION 2
 SN 016-0189
 69TH ST. OVER
 I-94 & CTA

LOCATION 3
 SN 016-1146
 71ST ST. OVER
 I-94 & CTA

LOCATION 4
 SN 016-1144
 79TH ST. OVER
 I-94 & CTA

LOCATION 5
 SN 016-1143
 83RD ST. OVER
 I-94 & CTA

LOCATION 6
 SN 016-1142
 87TH ST. OVER
 I-94 & CTA

LOCATION 7
 SN 016-0437
 US-12/20 (95TH ST.)
 OVER I-94 & CTA

LAKE AND CALUMET TOWNSHIPS

ILLINOIS DEPARTMENT OF
 TRANSPORTATION

LOCATIONS 2 - 7

VARIOUS STRUCTURES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	8

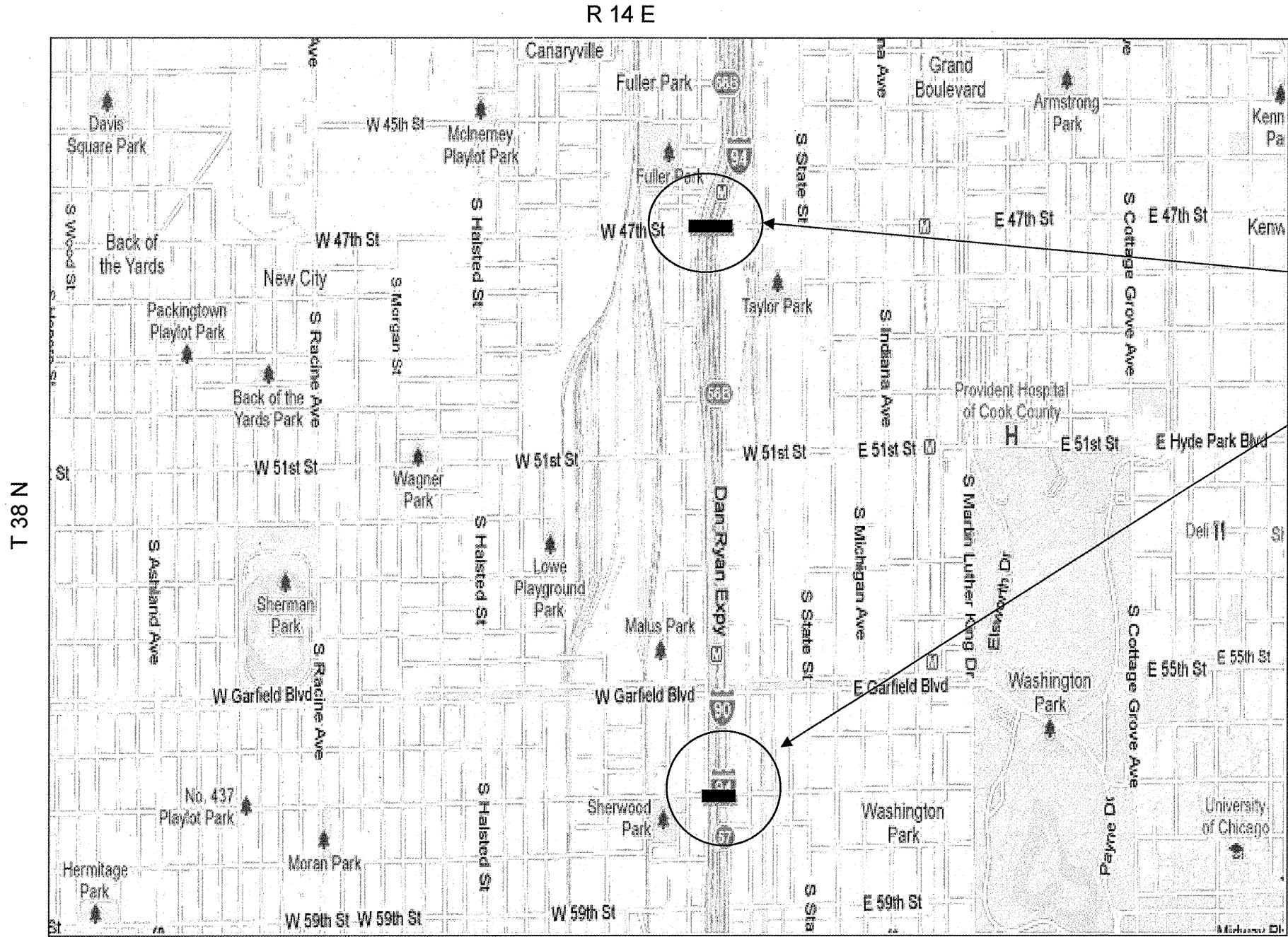
CONTRACT NO. 60P78

TRAFFIC DATA:

47TH ST.
 2010 ADT = 11,900
 POSTED SPEED LIMIT = 30 MPH

57TH ST.
 1997 ADT = 5,009
 POSTED SPEED LIMIT = 30 MPH

I-90/94
 2009 ADT = 240,800
 POSTED SPEED LIMIT = 55 MPH



LOCATION 8
 SN 016-1156
 47TH ST. OVER
 I-90/94 & CTA

LOCATION 9
 SN 016-1151
 57TH ST. OVER
 I-90/94 & CTA

LAKE TOWNSHIP

ILLINOIS DEPARTMENT OF
 TRANSPORTATION
 LOCATIONS 8 & 9
 VARIOUS STRUCTURES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	9

CONTRACT NO. 60P78

TRAFFIC DATA:

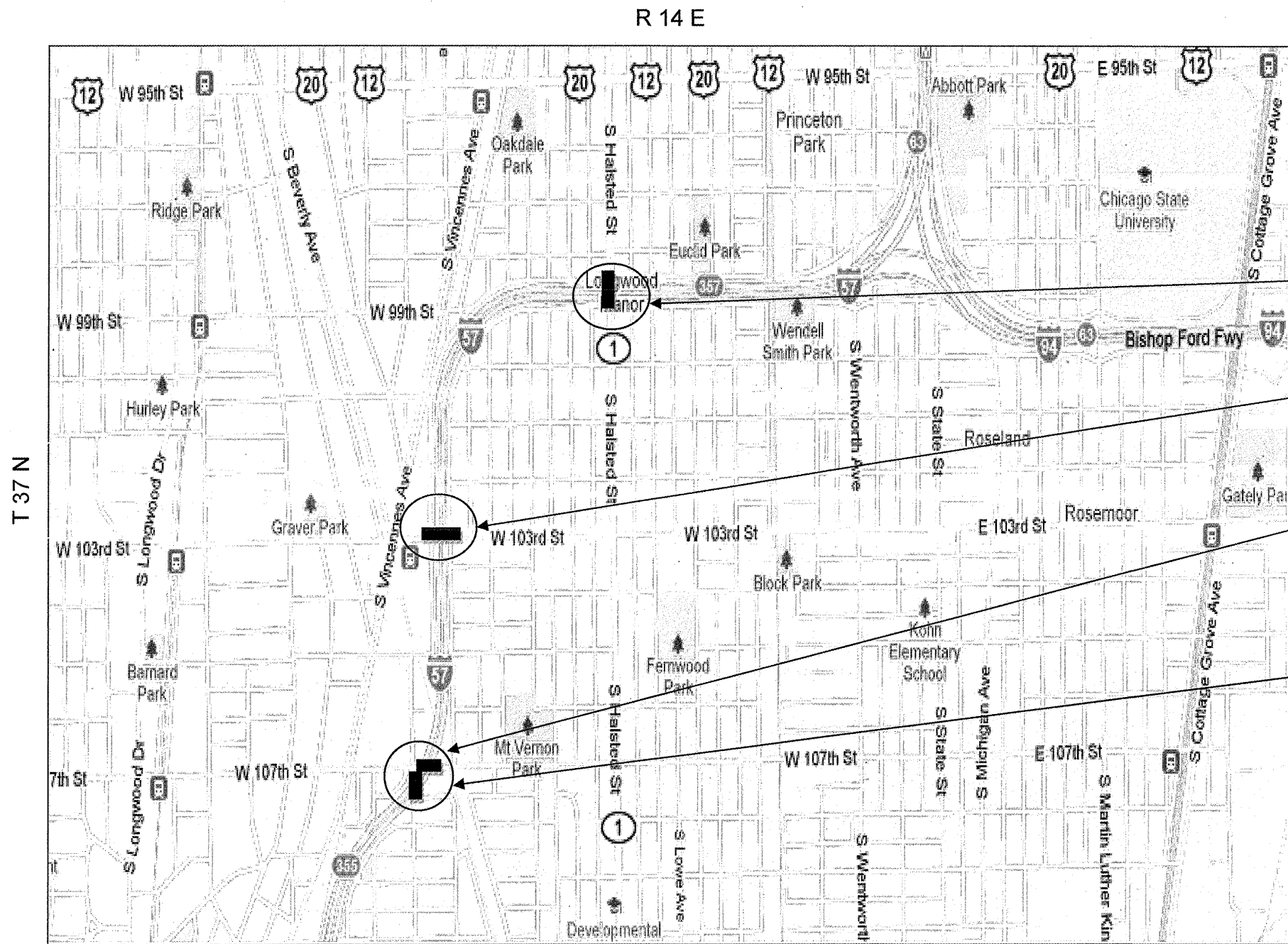
IL-1 (HALSTED ST.)
 2010 ADT = 27,900
 POSTED SPEED LIMIT = 35 MPH

103RD ST.
 2010 ADT = 11,300
 POSTED SPEED LIMIT = 30 MPH

107TH ST.
 2010 ADT = 3,850
 POSTED SPEED LIMIT = 30 MPH

S. THROOP ST.
 1997 ADT = 5,009
 POSTED SPEED LIMIT = 30 MPH

I-57
 2009 ADT = 128,800
 POSTED SPEED LIMIT = 55 MPH



LOCATION 10
 SN 016-2036
 IL-1 (HALSTED ST.)
 OVER I-57

LOCATION 11
 SN 016-2127
 103RD ST. OVER I-57

LOCATION 12
 SN 016-2031
 107TH ST. OVER I-57

LOCATION 13
 SN 016-2032
 S. THROOP ST.
 OVER I-57

CALUMET TOWNSHIP

ILLINOIS DEPARTMENT OF
 TRANSPORTATION

LOCATIONS 10 - 13

VARIOUS STRUCTURES

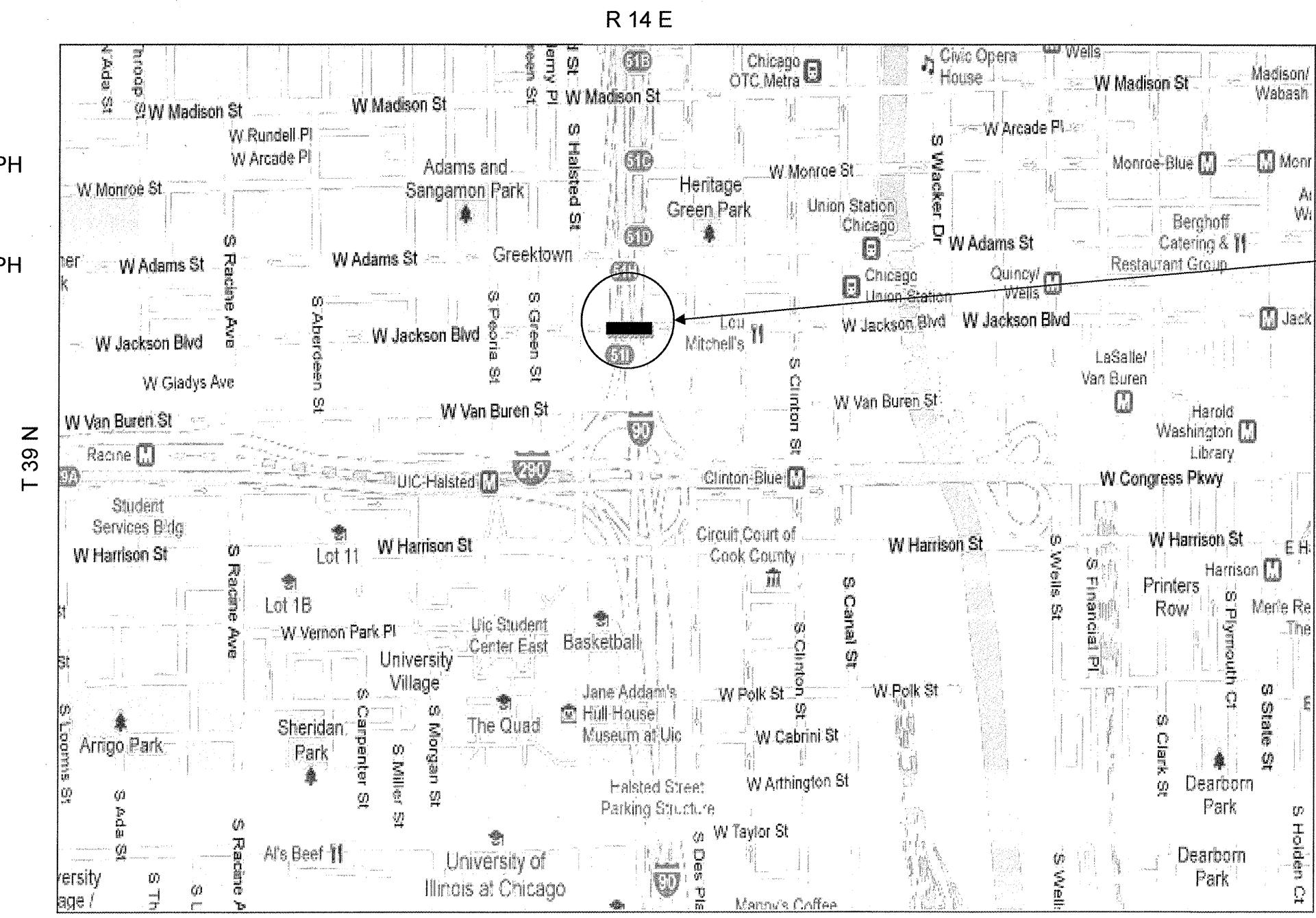
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	10

CONTRACT NO. 60P78

TRAFFIC DATA:

W. JACKSON BLVD.
 2010 ADT = 9,800
 POSTED SPEED LIMIT = 30 MPH

I-90/94 (JFK)
 2009 ADT = 137,450
 POSTED SPEED LIMIT = 45 MPH



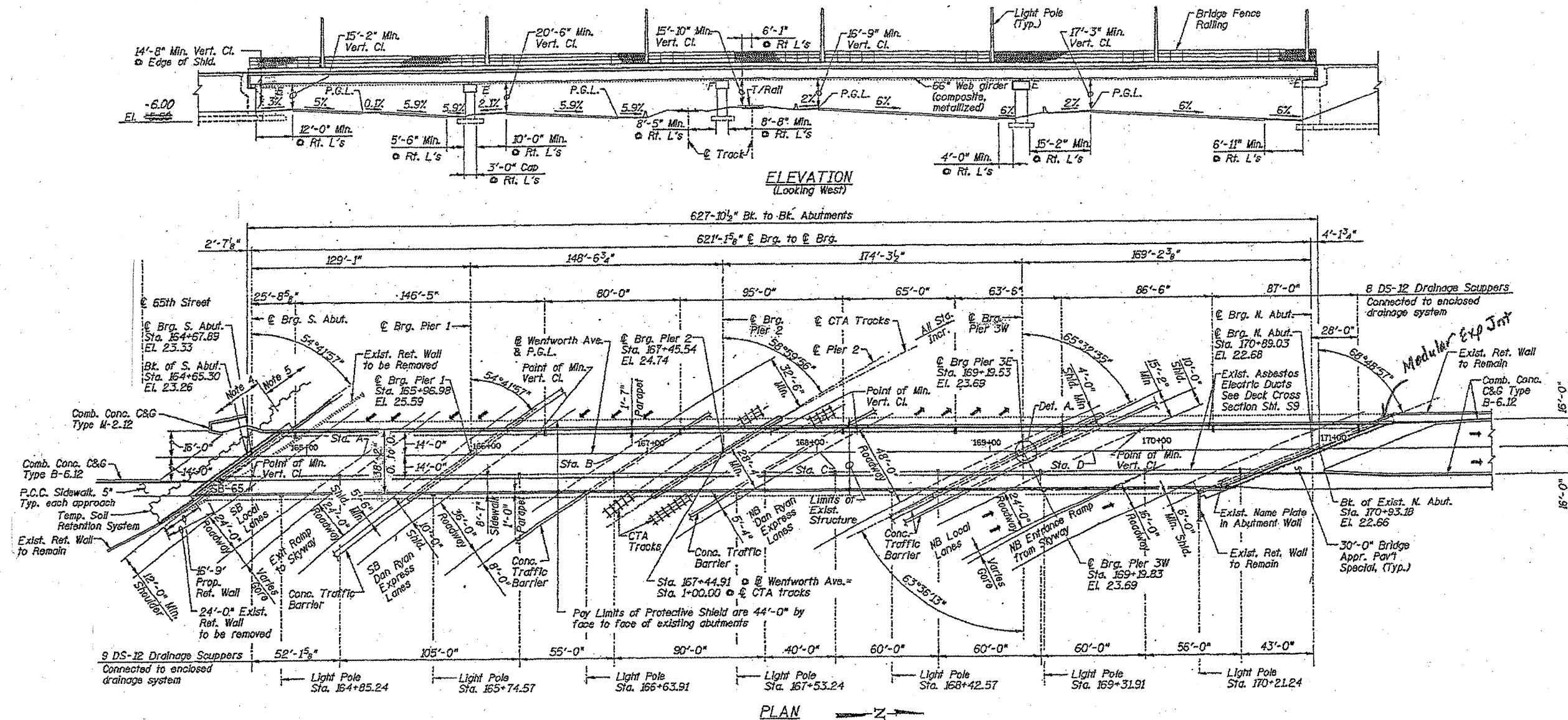
LOCATION 14
 SN 016-0588
 W. JACKSON BLVD.
 OVER I-90/94 (JFK)

WEST TOWNSHIP

ILLINOIS DEPARTMENT OF
 TRANSPORTATION
 LOCATION 14

 W. JACKSON BLVD. OVER
 I-90/94 (JFK)

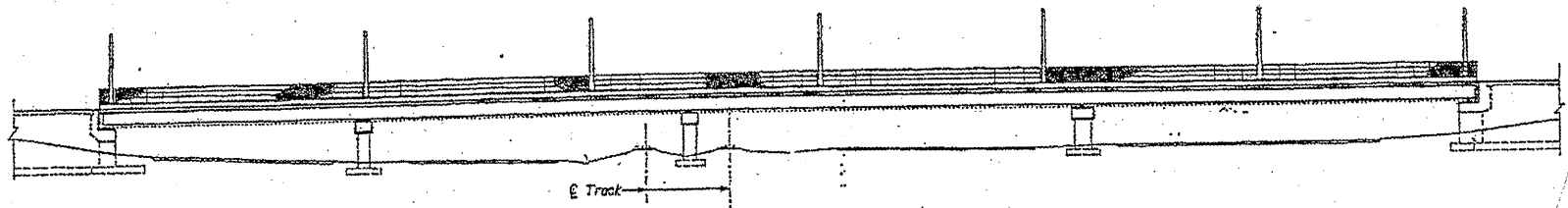
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	13



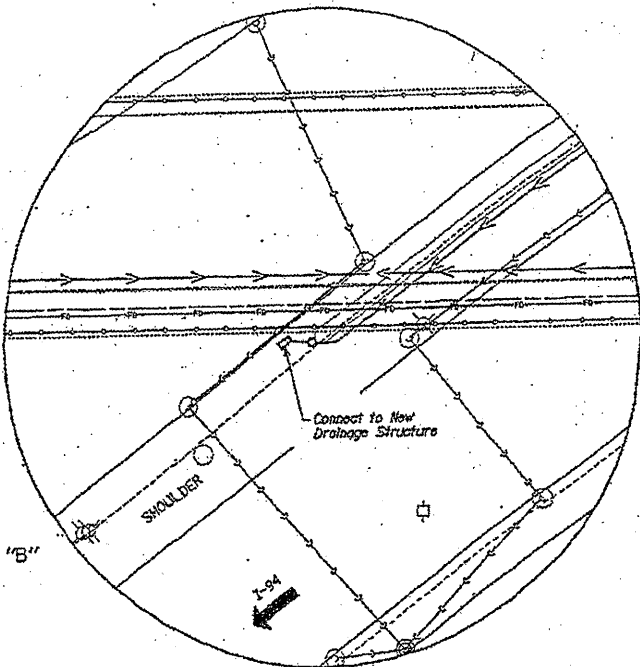
FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PLAN & ELEVATION
SN: 016-1007
SHEET 1 OF 3

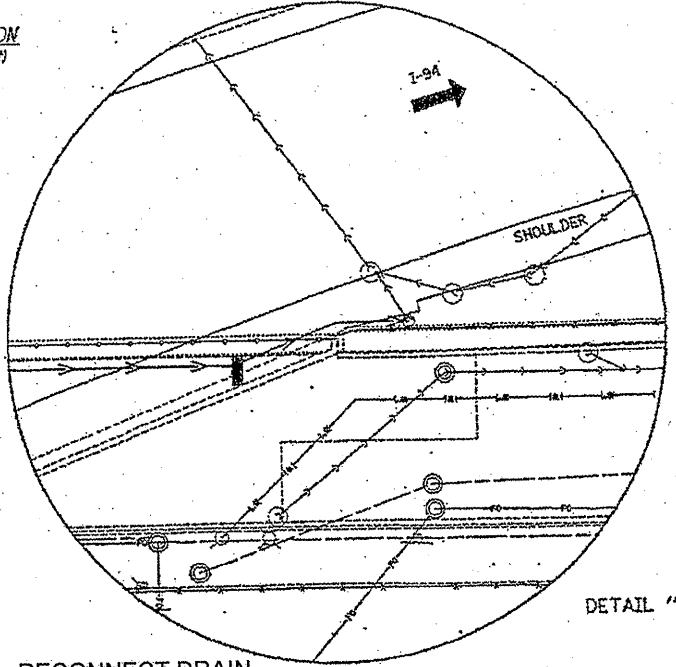
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	14



ELEVATION
(Looking West)



DETAIL "B"



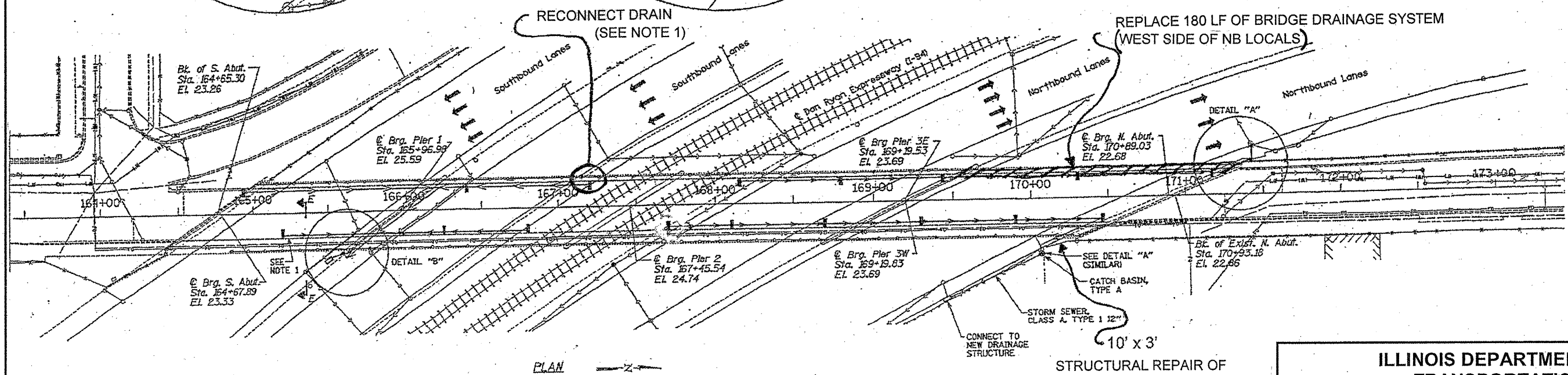
DETAIL "A"

TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	184
STRUCTURAL REPAIR OF CONCRETE ≤ 5 INCHES	SQ FT	30
CLEANING DRAINAGE SYSTEM	L SUM	1

NOTES:

1. RECONNECT DRAIN AT WEST SIDE OF SB EXPRESS COST INCLUDED IN THE COST OF "BRIDGE DRAINAGE SYSTEM REPAIRS"
2. STRUCTURAL REPAIR OF CONCRETE ≤ 5 INCHES AT NE CORNER OF NORTH ABUTMENT
3. CLEAN ENTIRE DRAINAGE SYSTEM

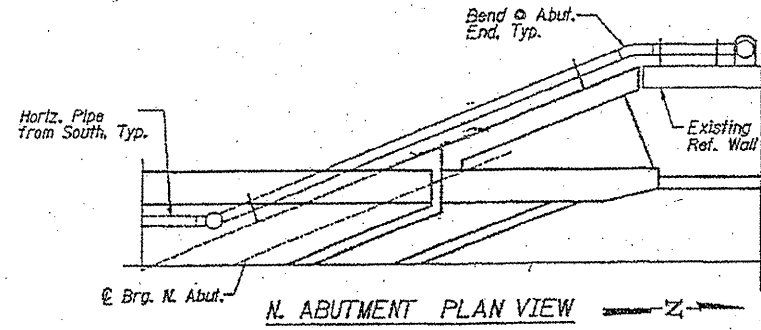


PLAN

STRUCTURAL REPAIR OF CONCRETE ≤ 5 INCHES = 30 SF (SEE NOTE 2)

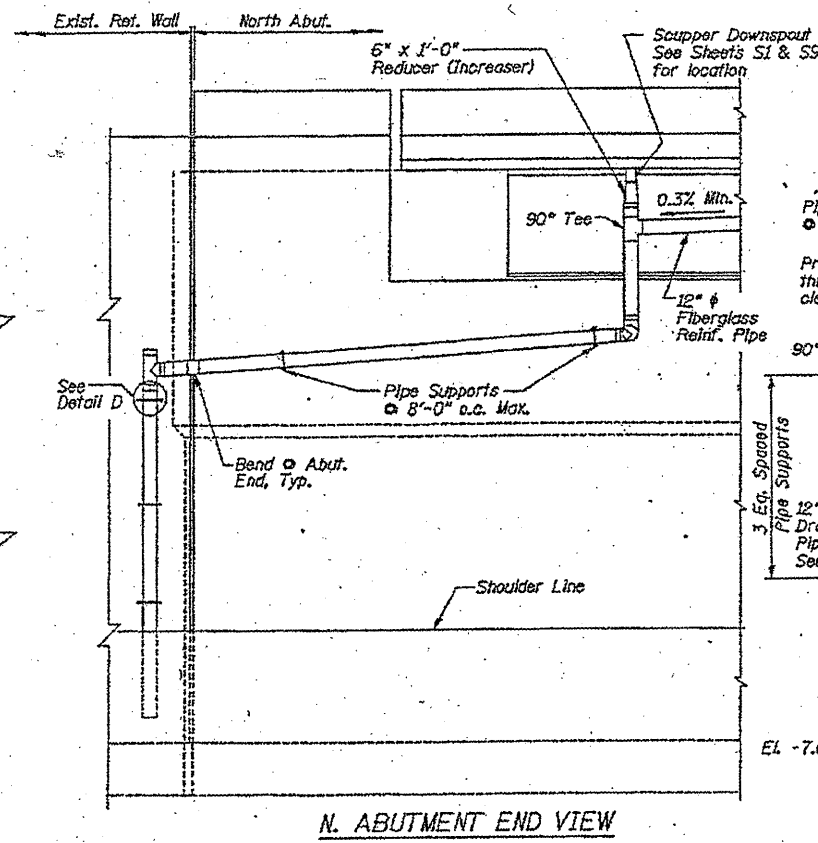
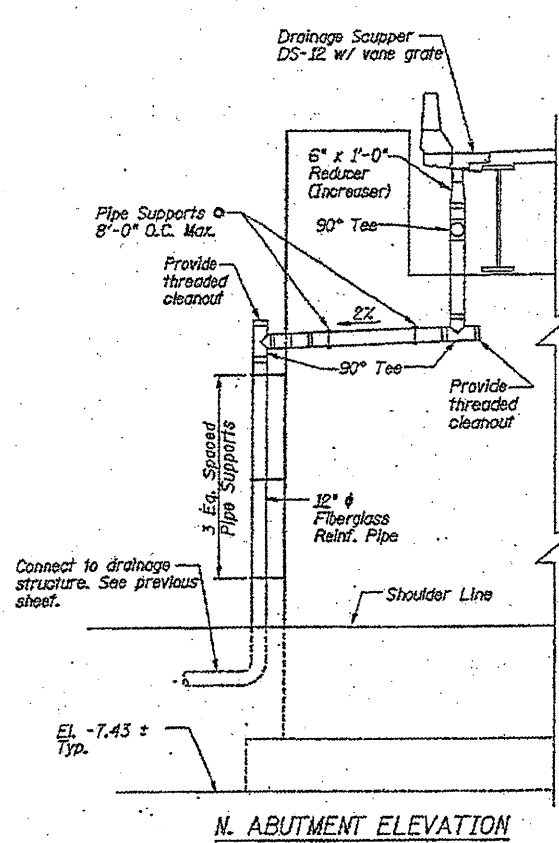
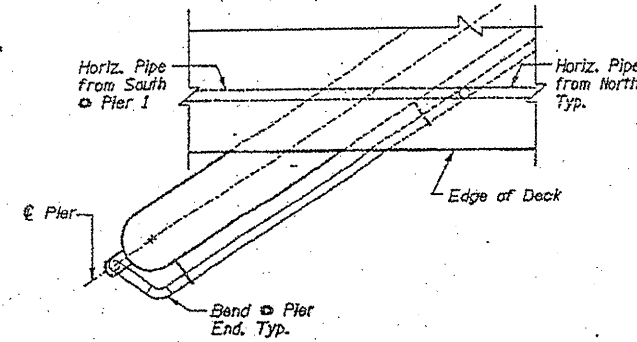
ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURAL REPAIRS
PLAN & ELEVATION
 SN: 016-1007
 SHEET 2 OF 3

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	15

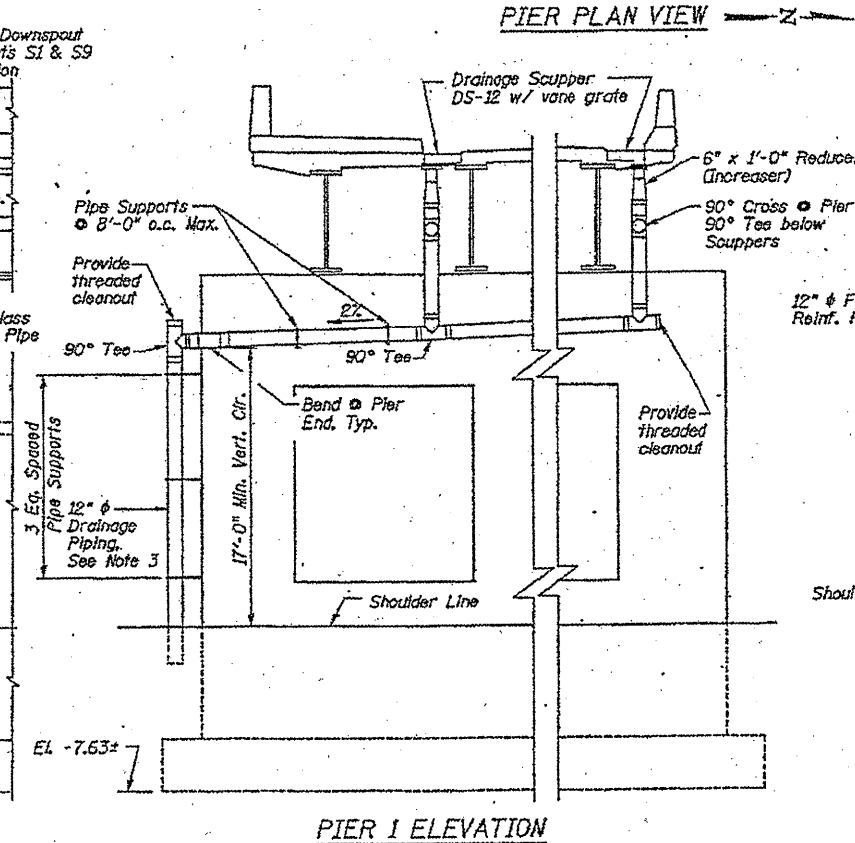


Notes:

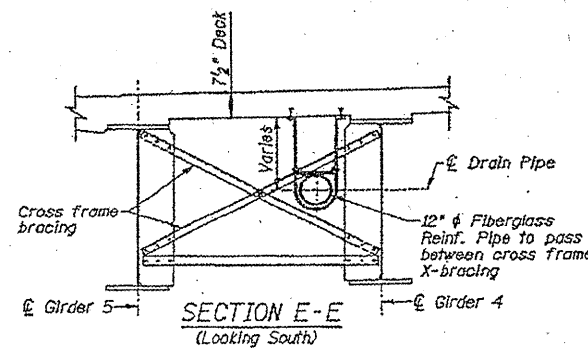
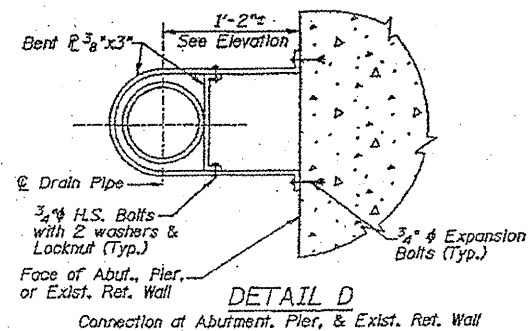
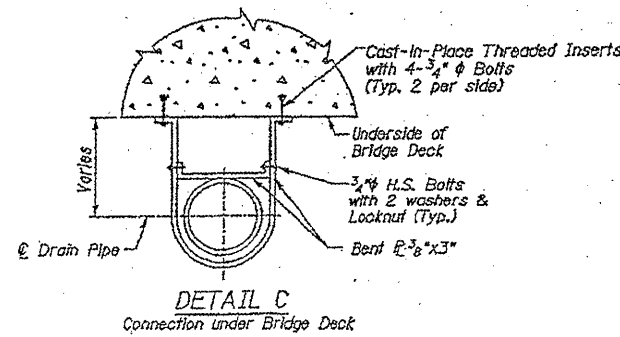
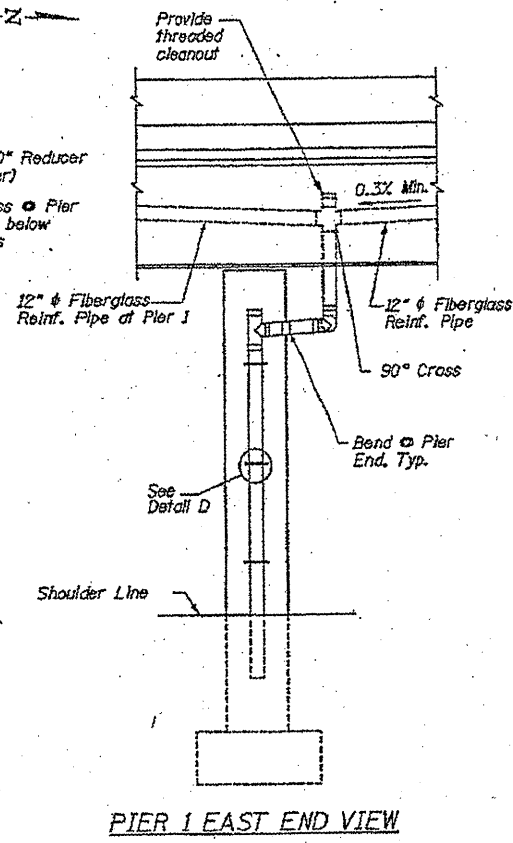
1. Fiberglass reinforced pipe, ductile iron pipe, cleanouts, supports & fittings from the downspout to the drainage structure is included in the pay item - Drainage System.
2. All horizontal drainage piping attached to bridge at deck shall be 12" ϕ Fiberglass Reinf. Pipe braced as shown in Detail C at 8'-0" o.c. Max. and at all pipe couplings U.K.O. Min. slope of the pipe shall be 0.3%.
3. The bottom 10' of the exposed vertical drainage pipe shall be ductile iron pipe. Ductile iron pipe shall conform to ASTM A377 and ductile iron fittings (castings) shall conform to ASTM A536. The cost of the ductile iron pipe and supports shall be included in the lump sum price for Drainage System.



PIPING DETAILS OPP. HAND, SIM. (North Abut. East End)



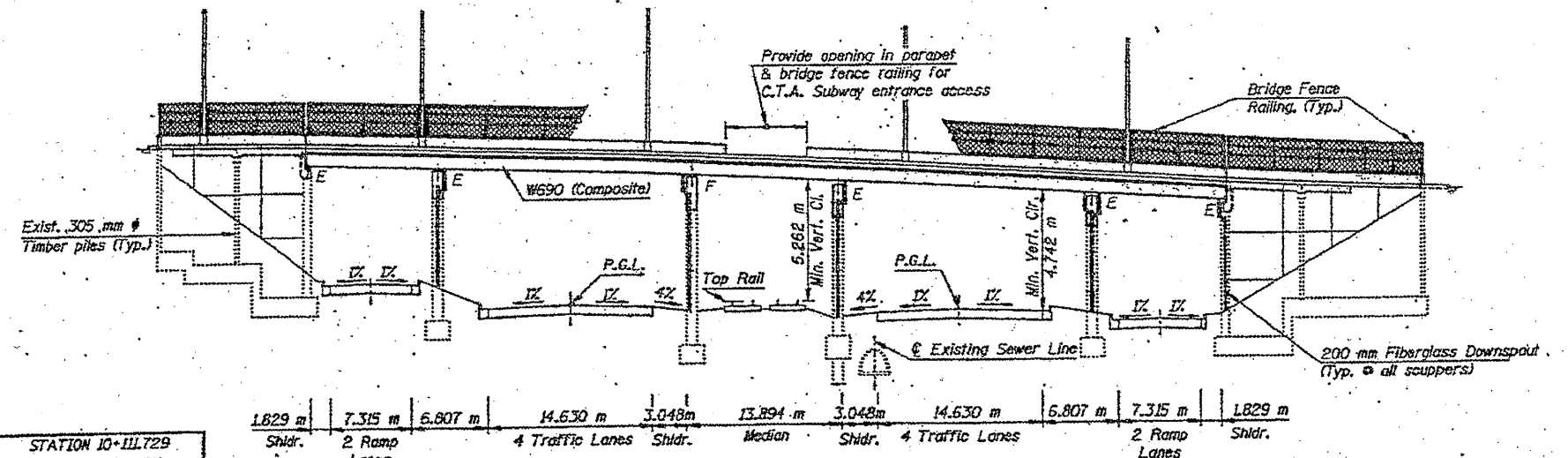
PIPING DETAILS



FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PLAN & ELEVATION
SN: 016-1007
SHEET 3 OF 3

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
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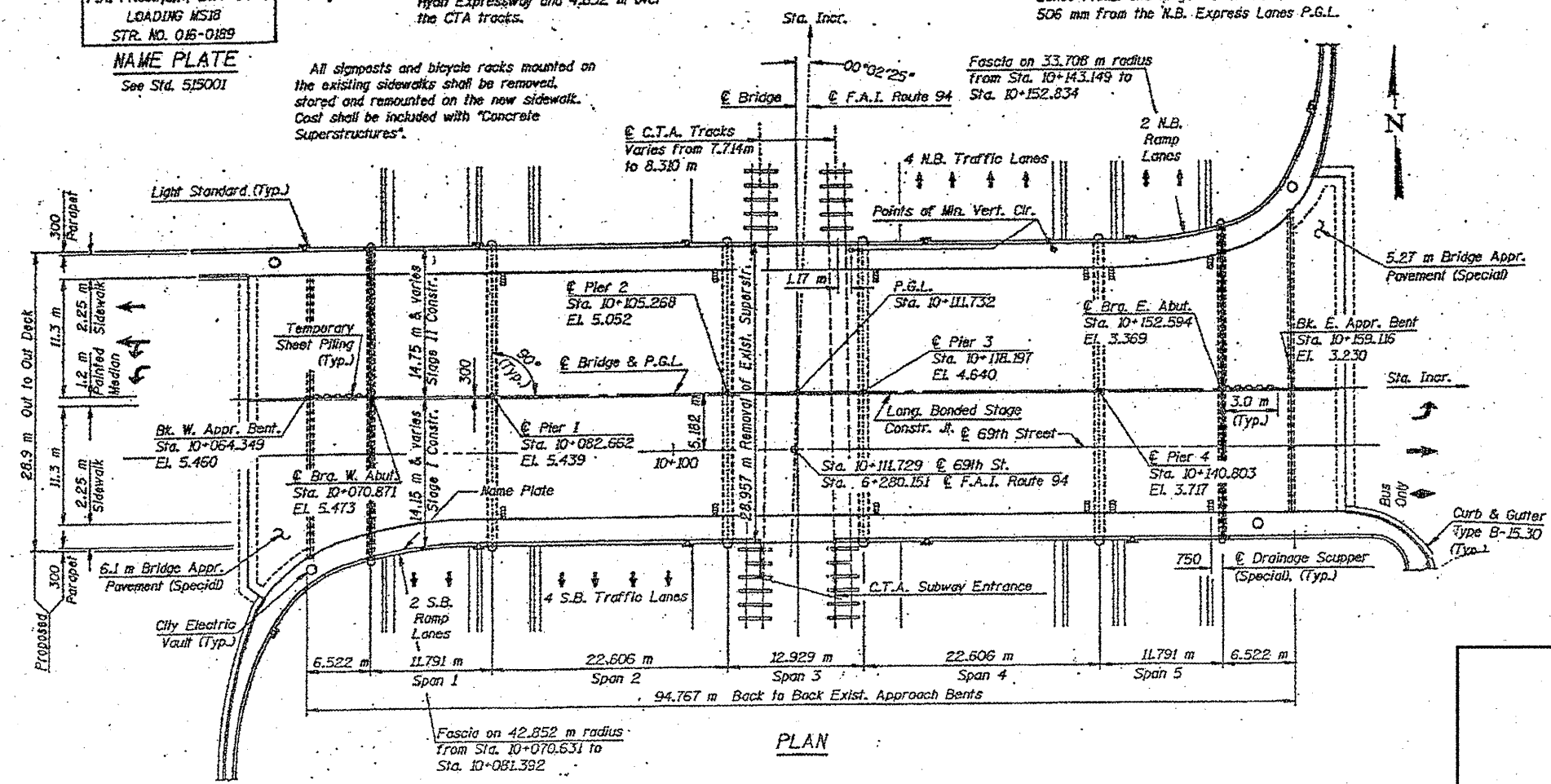
STATION 10+117.29
REBUILT BY
STATE OF ILLINOIS
F.A.U. 3761 SEC. 1919.58
F.A. PROJ. QCM-5H1-94-3 (323)59
LOADING MS18
STR. NO. 016-0189

NAME PLATE
See Std. 515001

The existing minimum vertical clearance is 4.572 m over the Dan Ryan Expressway and 4.852 m over the CTA tracks.

*Profiles for the ramp lanes are similar to the corresponding express lanes. To get to the P.G.L. of the S.B. Ramp Lanes add 1.008 m to the S.B. Express Lanes P.G.L. and to get to the P.G.L. of the N.B. Ramp Lanes subtract 506 mm from the N.B. Express Lanes P.G.L.

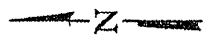
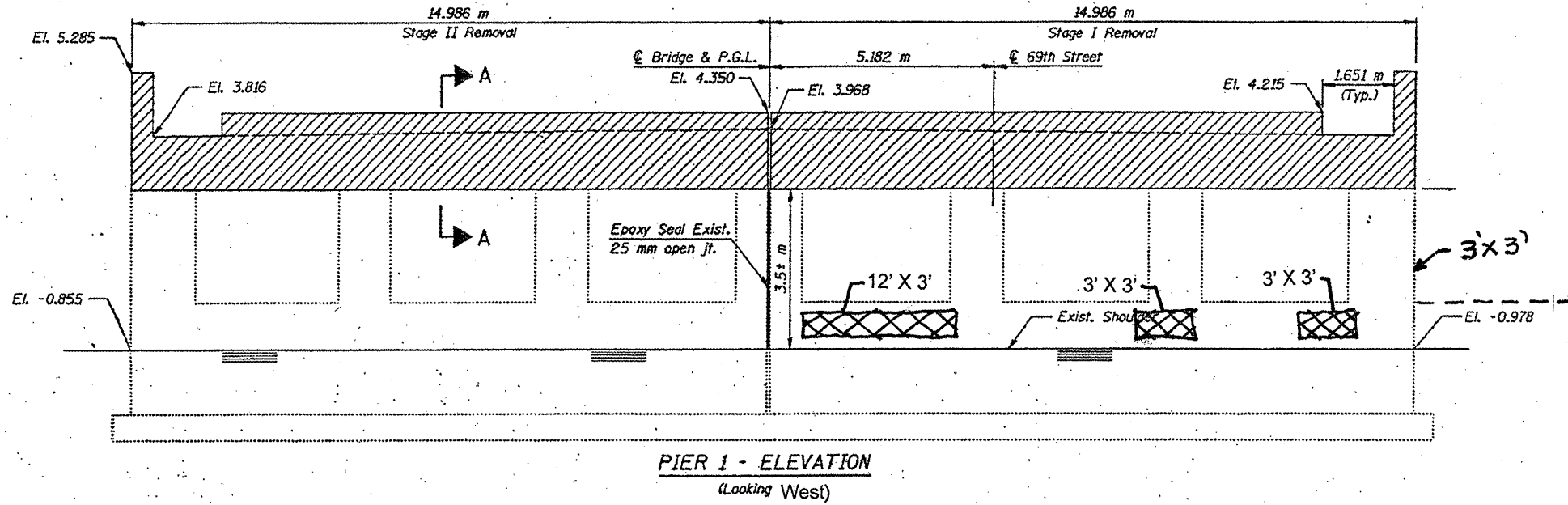
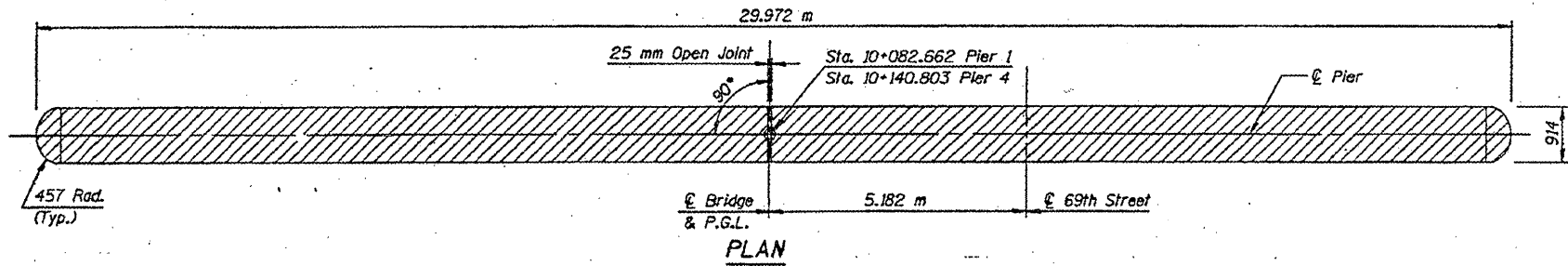
All signposts and bicycle racks mounted on the existing sidewalks shall be removed, stored and remounted on the new sidewalk. Cost shall be included with "Concrete Superstructures".



FOR INFORMATION ONLY

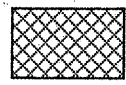
ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PLAN & ELEVATION
SN: 016-0189
SHEET 1 OF 2

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	17



TOTAL BILL OF MATERIALS

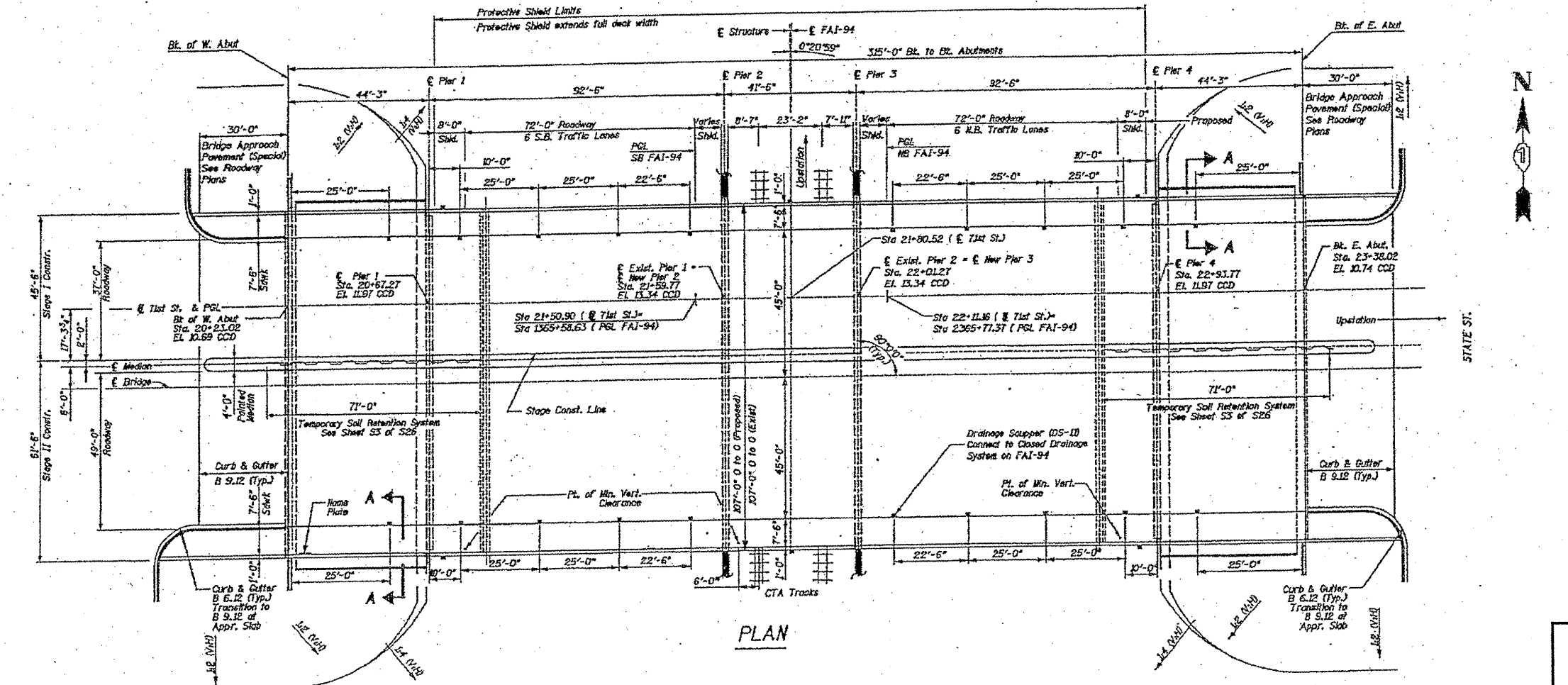
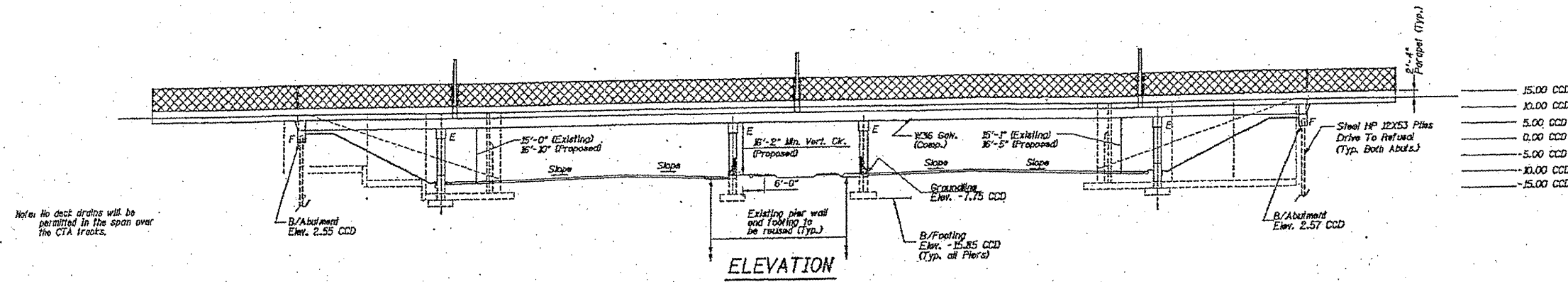
ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE ≤ 5 INCHES	SQ FT	63



STRUCTURAL REPAIR OF CONCRETE ≤ 5 INCHES

ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PIER 1 & 4 REMOVAL DETAILS
SN: 016-0189
SHEET 2 OF 2

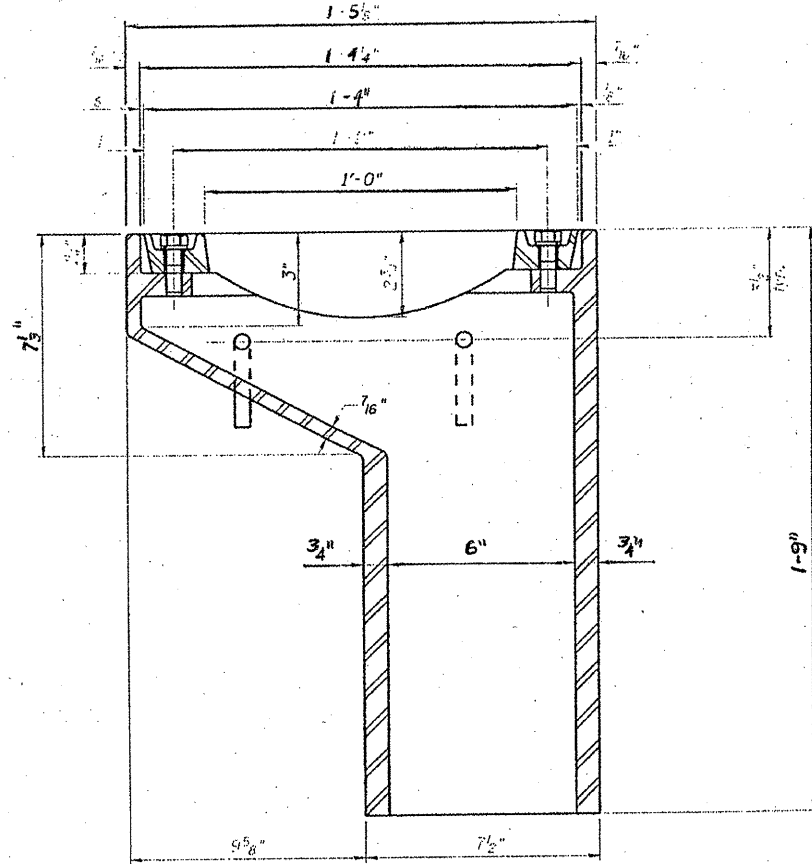
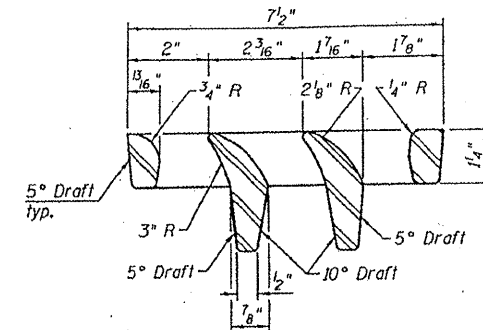
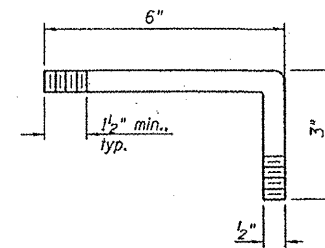
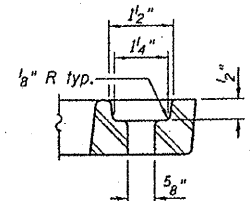
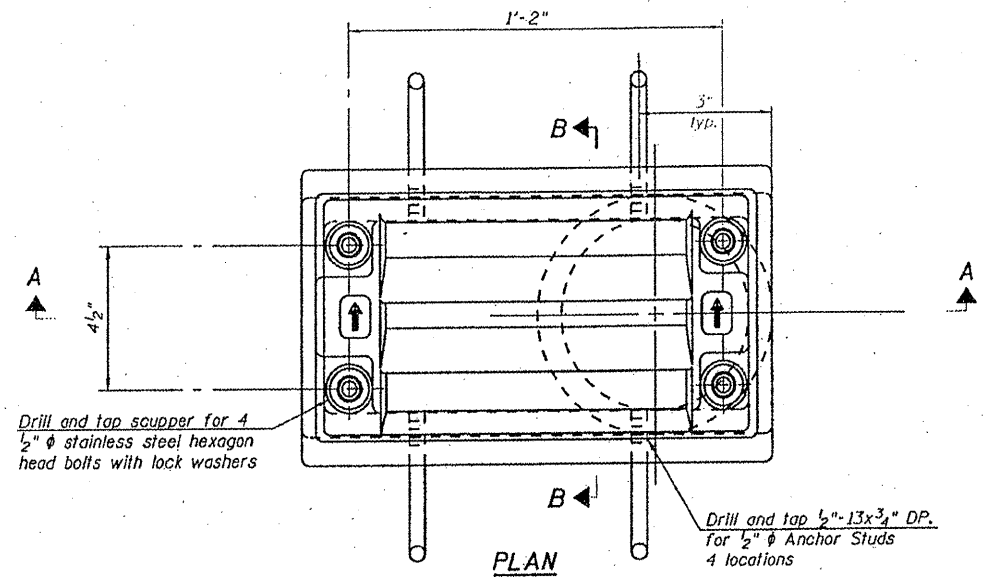
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	18



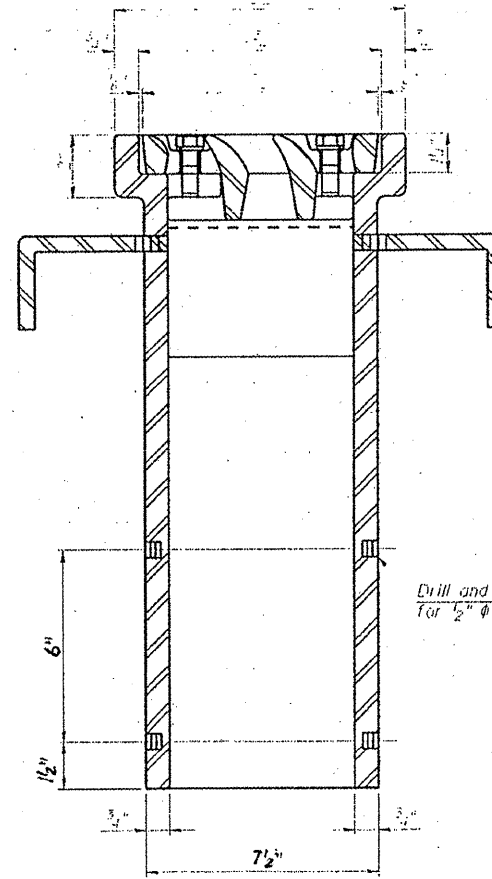
FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PLAN & ELEVATION
SN: 016-1146
SHEET 1 OF 3

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	19



See sheet S10 of S26 for scupper location relative to sidewalk.



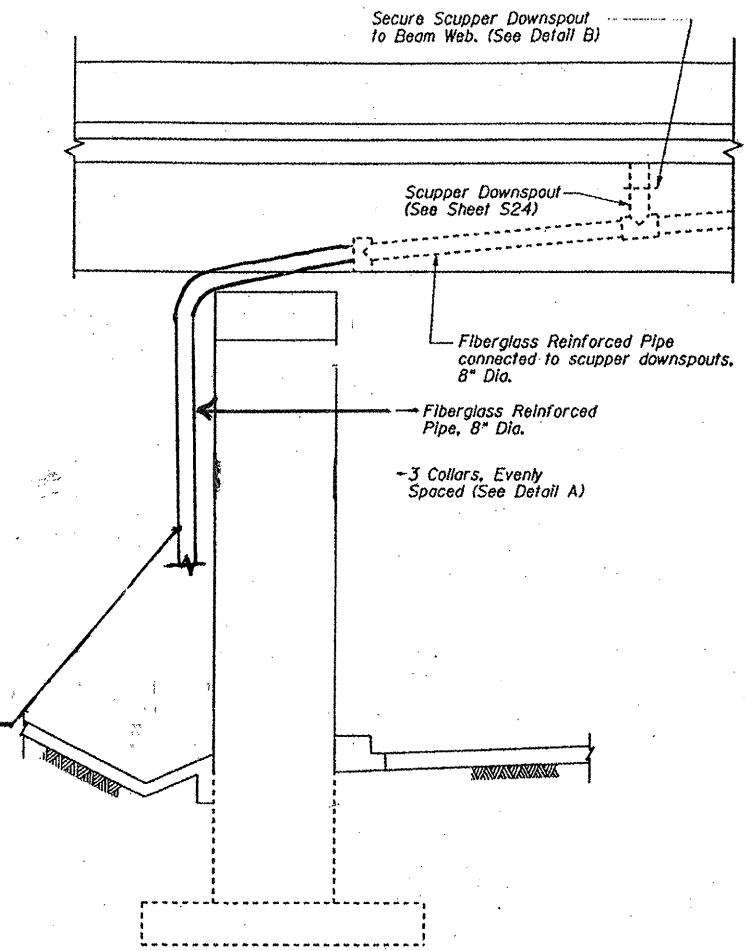
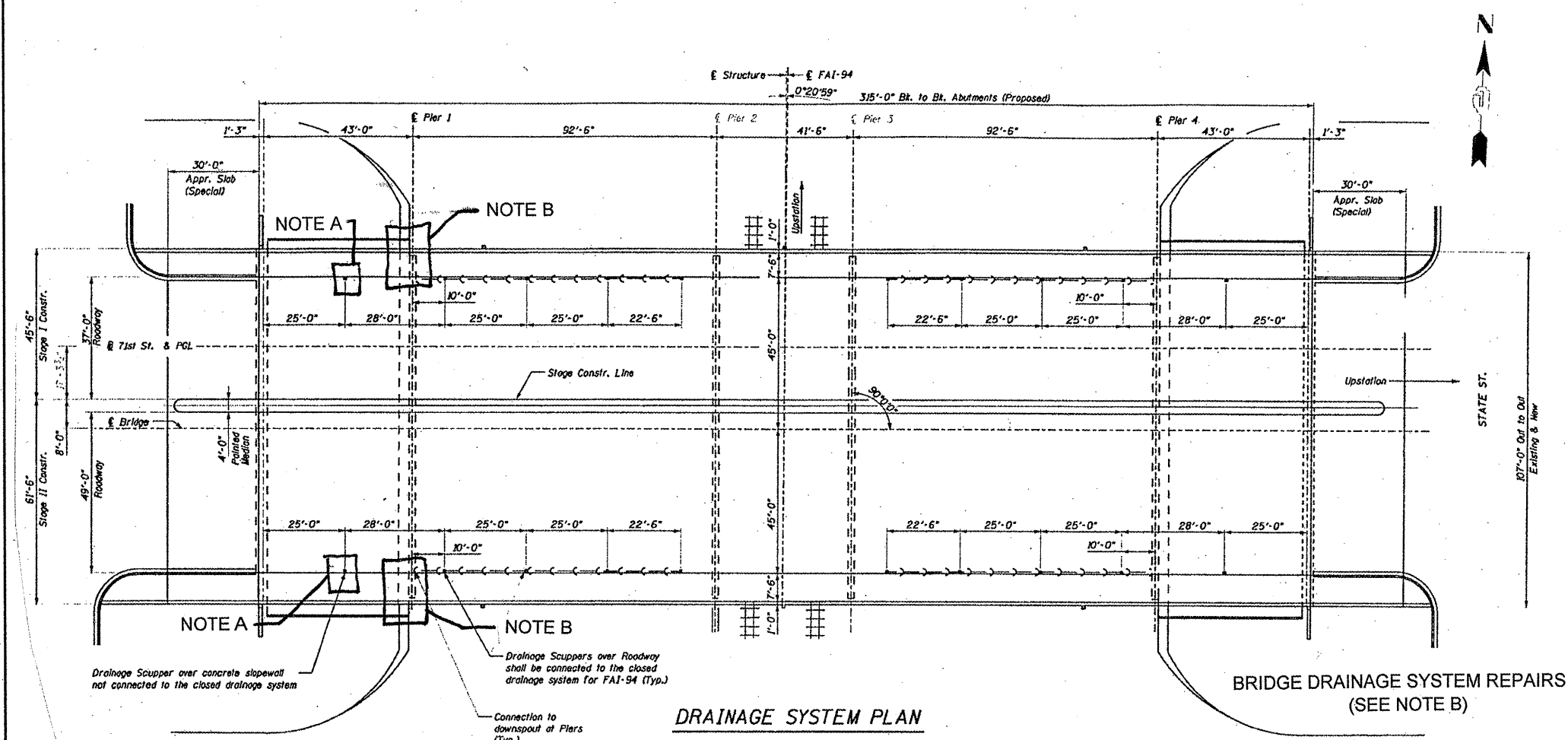
Drill and tap 1/2"-13x1/2" DP. for 1/2" φ bolts. (4 locations)

Notes: All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
 Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.
 The grate, frame and downspout shall be galvanized according to AASHTO M 111 and ASTM A 385. Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.
 As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the Grate, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.

FOR INFORMATION ONLY

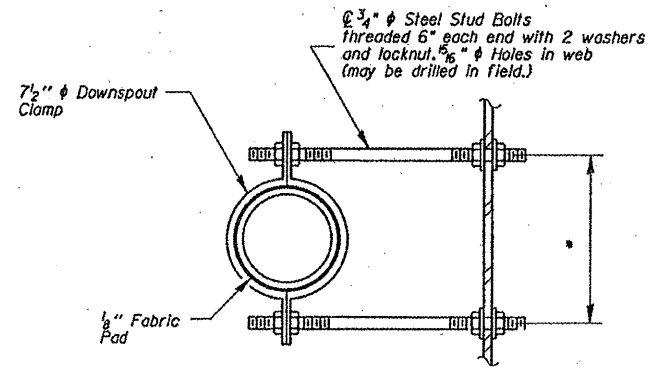
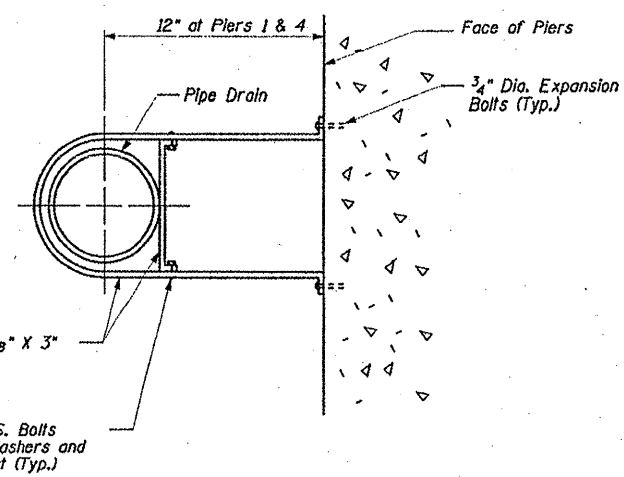
ILLINOIS DEPARTMENT OF
 TRANSPORTATION
 STRUCTURAL REPAIRS
 PLAN & ELEVATION
 SN: 016-1146
 SHEET 2 OF 3

ROUTE VARIOUS	SECTION 2011-060-BR	COUNTY COOK	TOTAL SHEETS 49	SHEET NUMBER 20
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TOTAL BILL OF MATERIALS

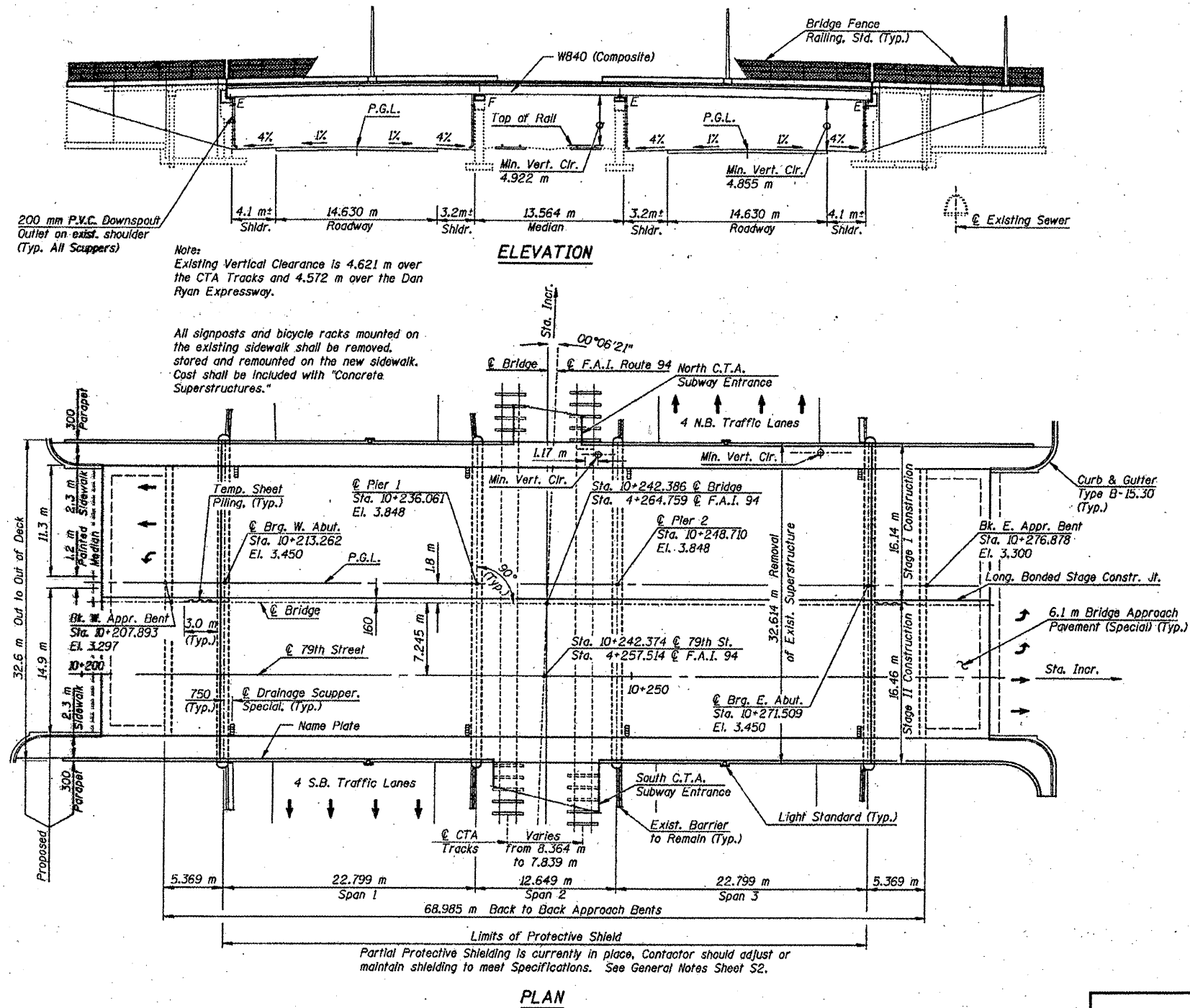
ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	16



- NOTE A: EXTEND DRAIN TO 6 INCHES BELOW BOTTOM FLANGES - COST INCLUDED IN "BRIDGE DRAINAGE SYSTEM REPAIRS"
- NOTE B: REPAIR BOTTOM 8 FT OF DRAIN PIPE ON BOTH NORTH & SOUTH SIDES, WEST SIDE OF PIER 1

ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURAL REPAIRS
DRAINAGE SYSTEM
 SN: 016-1146
 SHEET 3 OF 3

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	21



200 mm P.V.C. Downspout Outlet on exist. shoulder (Typ. All Scuppers)

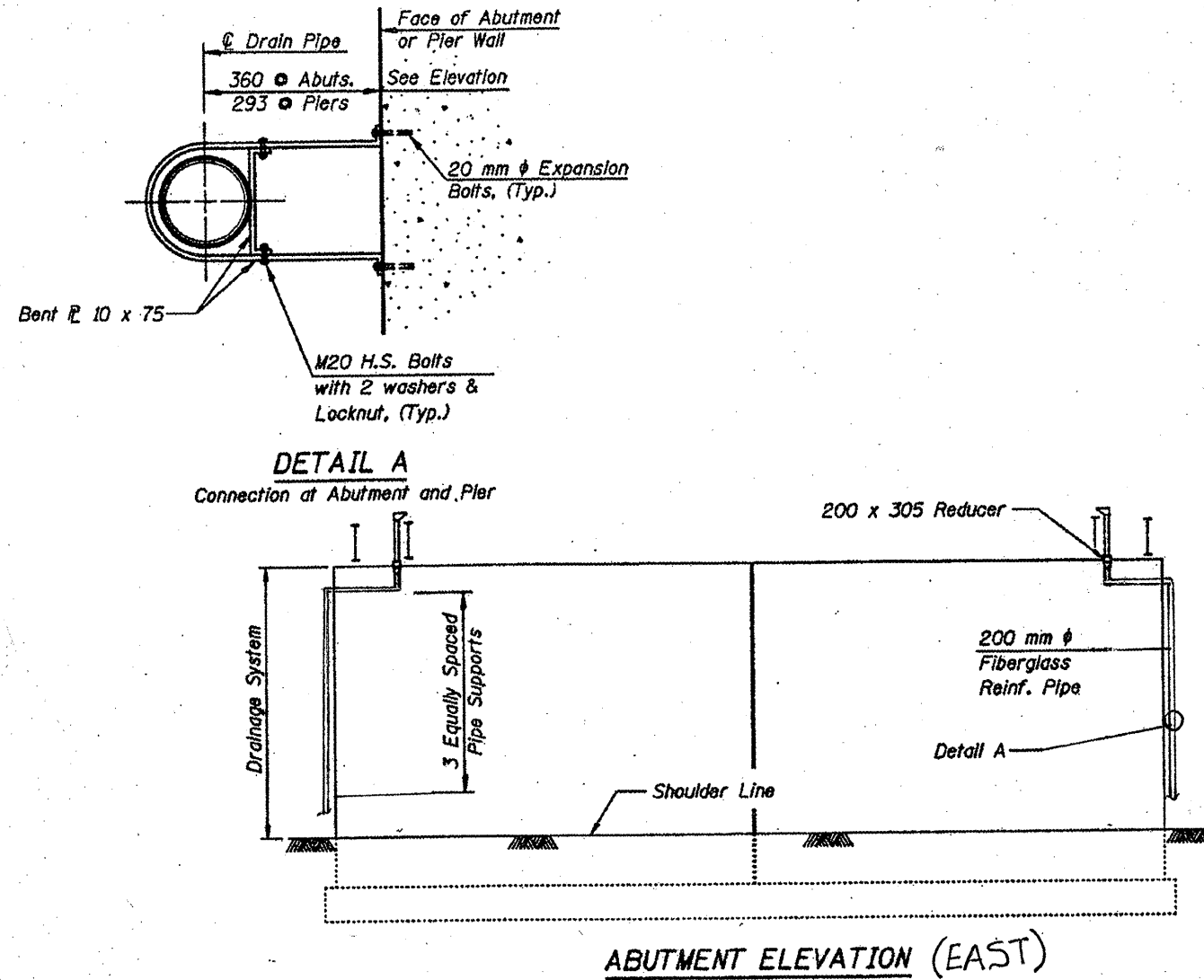
Notes:
Existing Vertical Clearance is 4.621 m over the CTA Tracks and 4.572 m over the Dan Ryan Expressway.

All signposts and bicycle racks mounted on the existing sidewalk shall be removed, stored and remounted on the new sidewalk. Cost shall be included with "Concrete Superstructures."

FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PLAN & ELEVATION
SN: 016-1144
SHEET 1 OF 2

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	22



TOTAL BILL OF MATERIALS

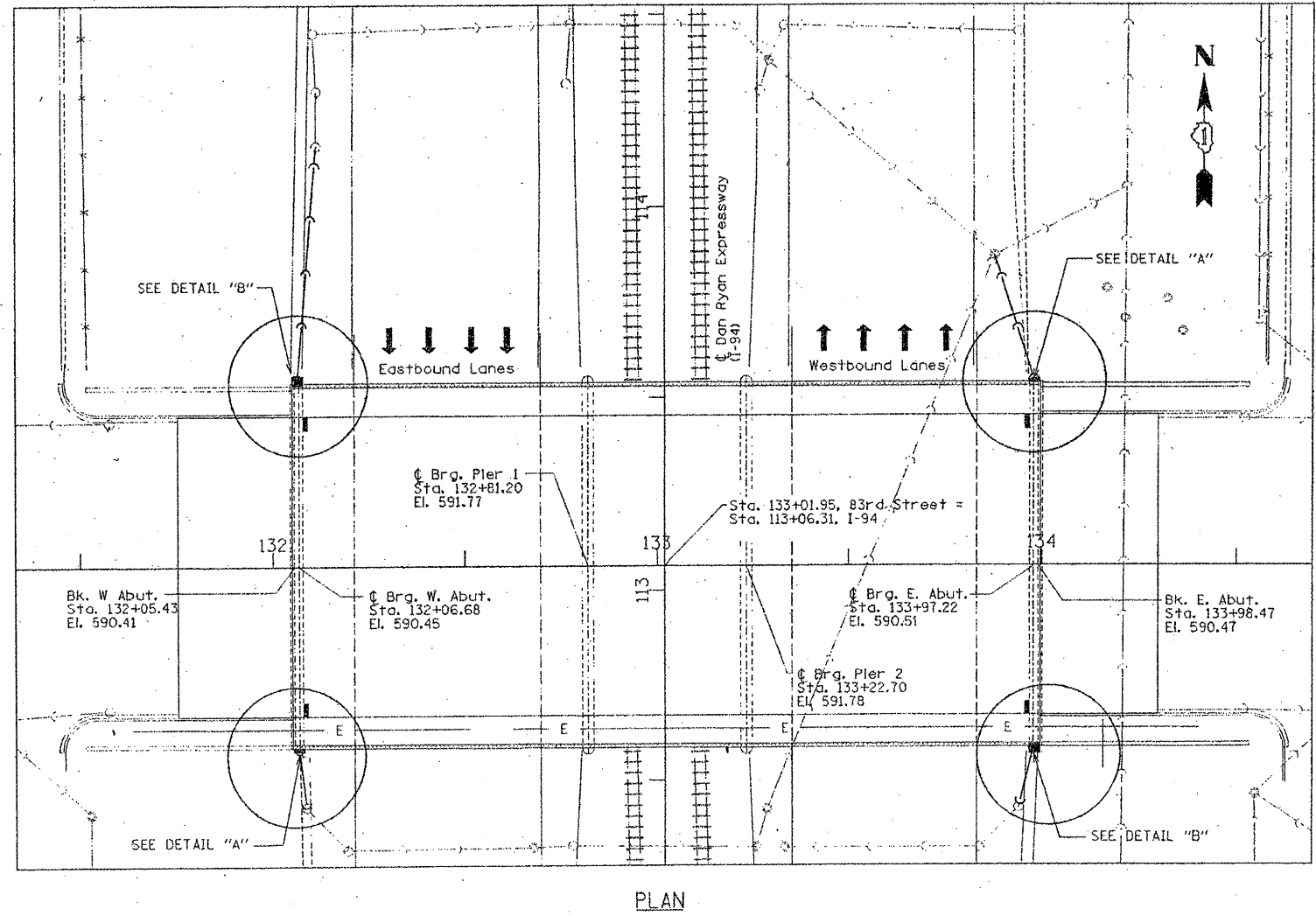
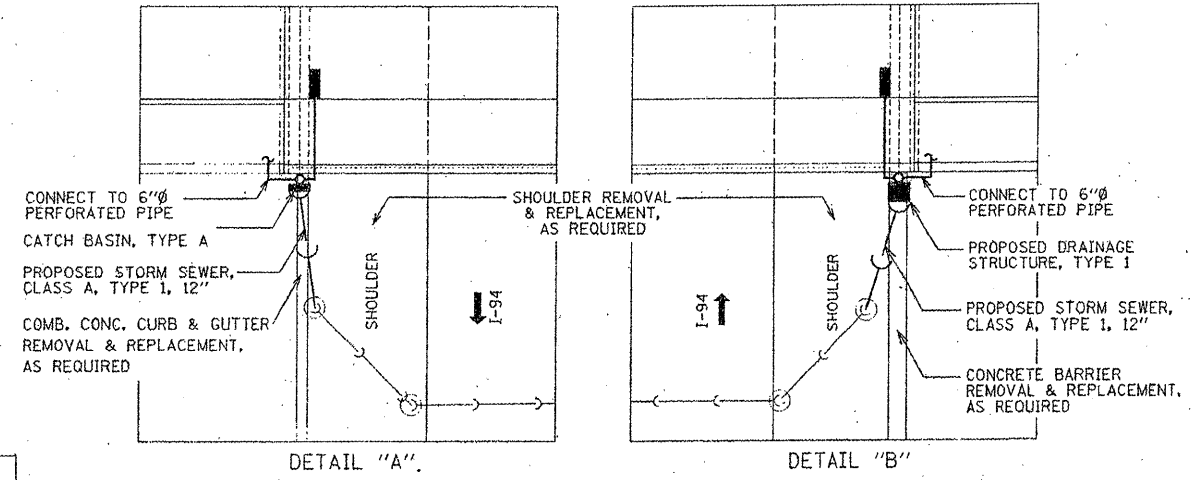
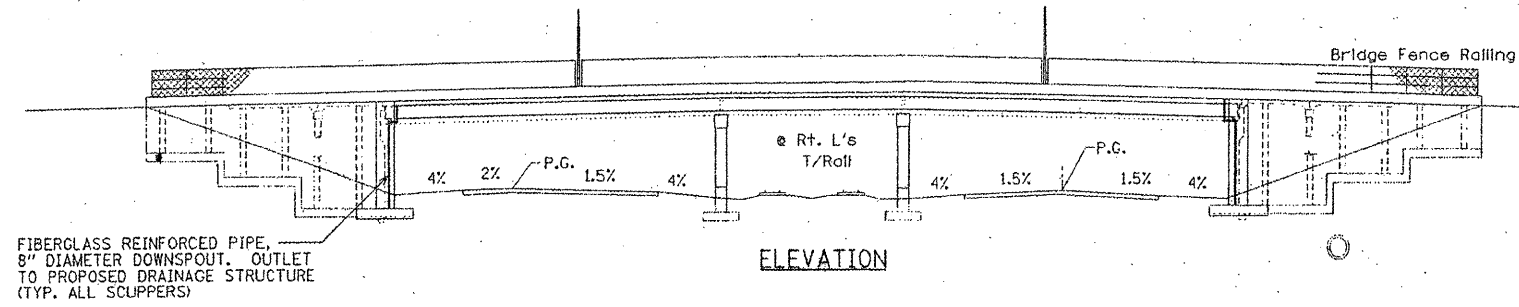
ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	15

NOTE:

BRIDGE DRAINAGE SYSTEM REPAIRS NORTH AND SOUTH END OF EAST ABUTMENT. (REPLACE SECTIONS WHICH GO AROUND ABUTMENT CORNERS.)

ILLINOIS DEPARTMENT OF
 TRANSPORTATION
 STRUCTURAL REPAIRS
 ABUTMENT & PIER ELEVATION
 SN: 016-1144
 SHEET 2 OF 2

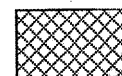
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	23



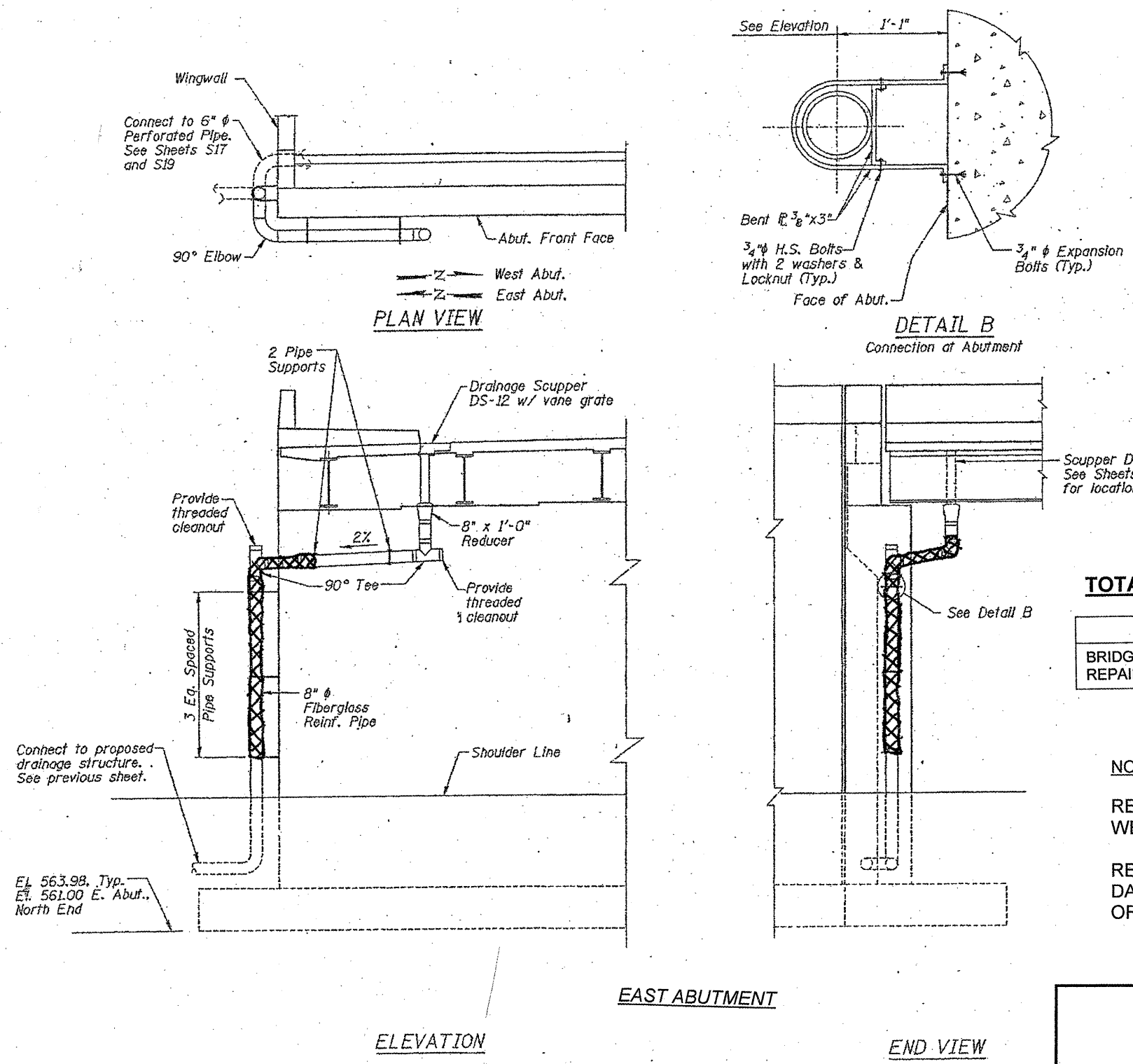
FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PLAN & ELEVATION
SN: 016-1143
SHEET 1 OF 2

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	24



BRIDGE DRAINAGE SYSTEM REPAIRS



TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	15

NOTE:

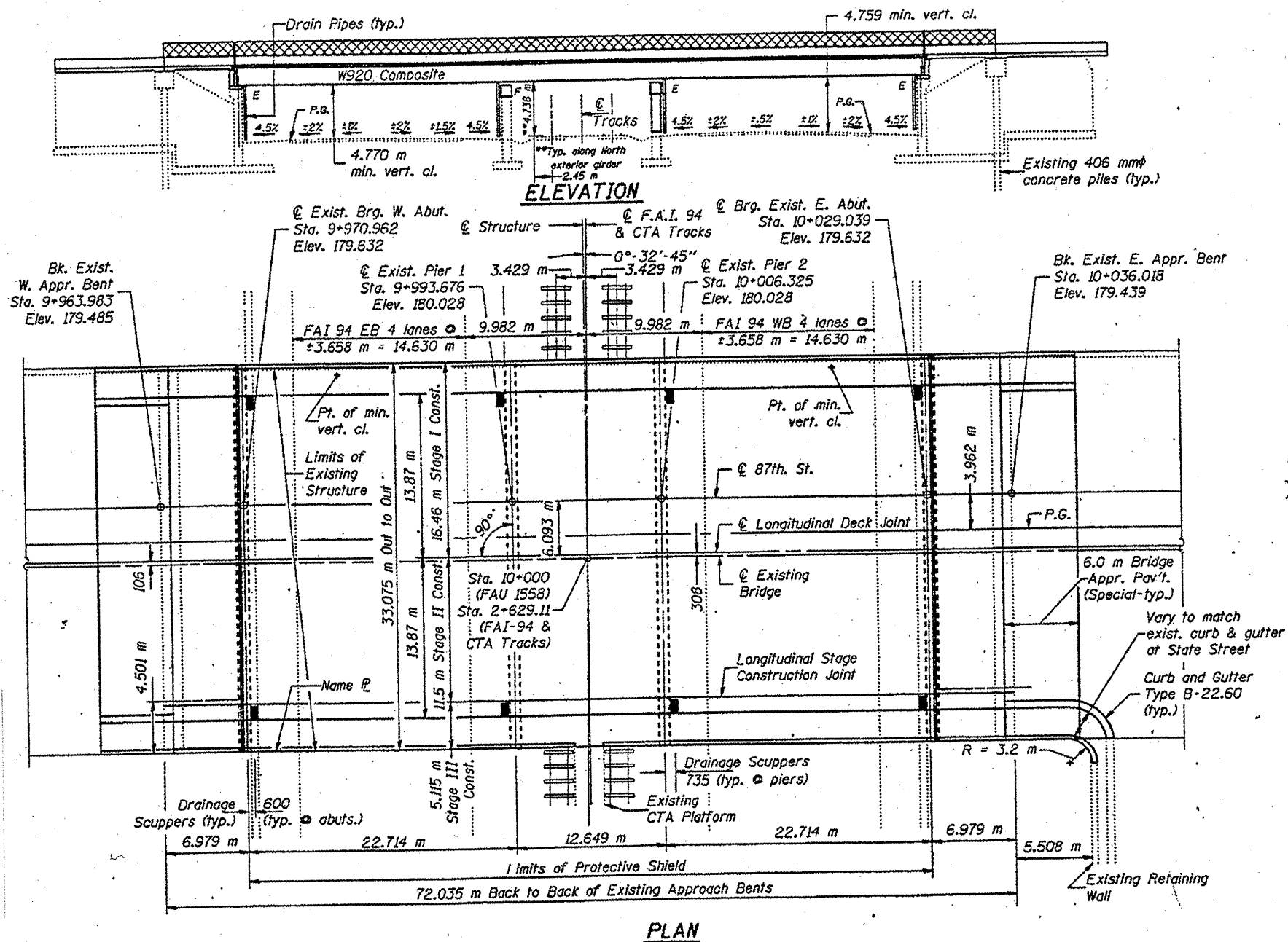
REALIGNMENT OF PIPES AT SOUTH END OF WEST ABUTMENT.

REPLACE DAMAGED CORNER SECTION AND DAMAGED VERTICAL SECTION AT SOUTH END OF EAST ABUTMENT.

ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURAL REPAIRS
DRAINAGE ELEVATION
 SN: 016-1143
 SHEET 2 OF 2

PIPING DETAILS (West Abut. South End & East Abut. North End)
 PIPING DETAILS OPP. HAND (West Abut. North End & East Abut. South End)

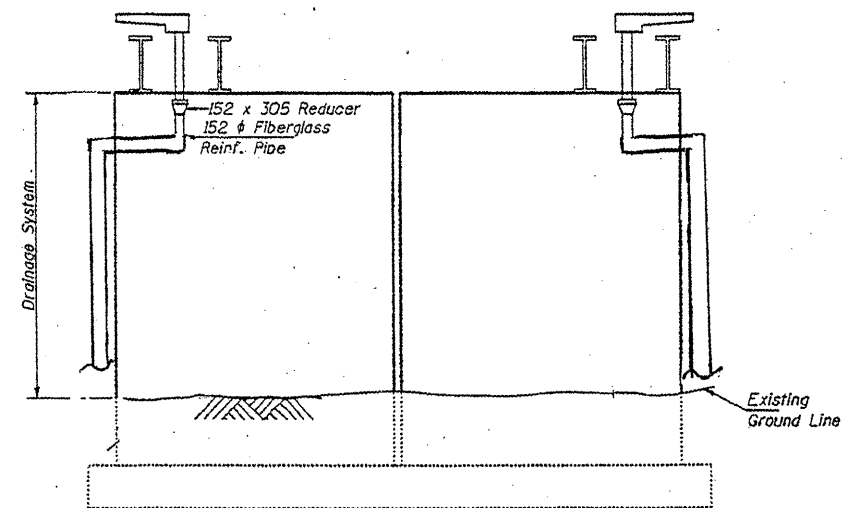
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	25



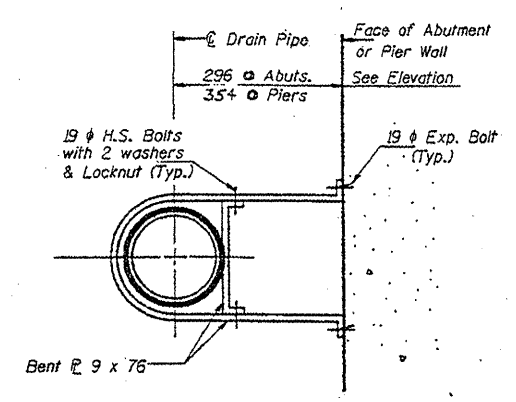
FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
 TRANSPORTATION
 STRUCTURAL REPAIRS
 PLAN & ELEVATION
 SN: 016-1142
 SHEET 1 OF 2

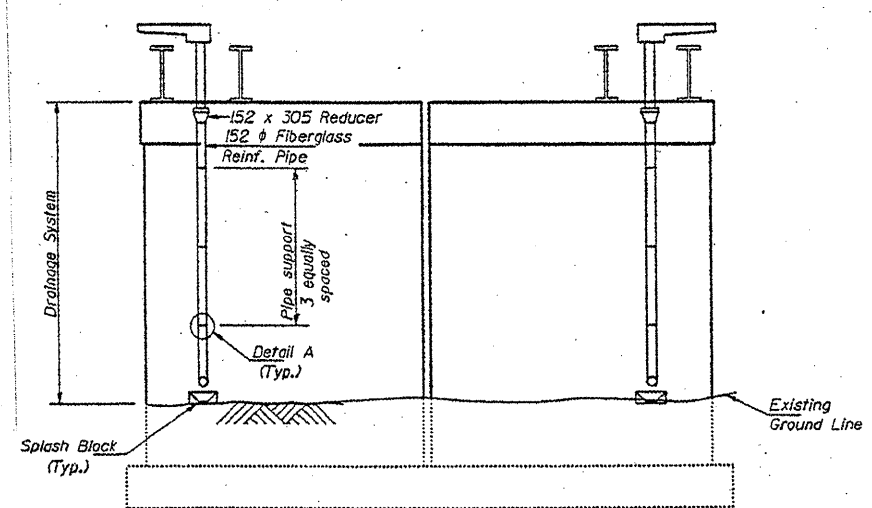
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	26



**ELEVATION
ABUTMENTS**

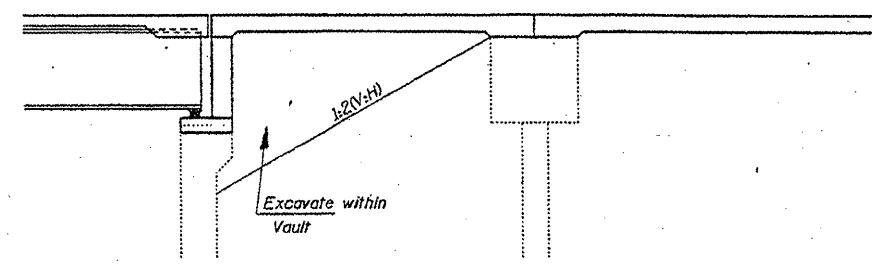


DETAIL A
Connection of Abutment and Pier Wall.



**ELEVATION
PIERS**

For Drainage Scupper Details see shts. #16 & 17 of 32.



ABUTMENT DETAILS

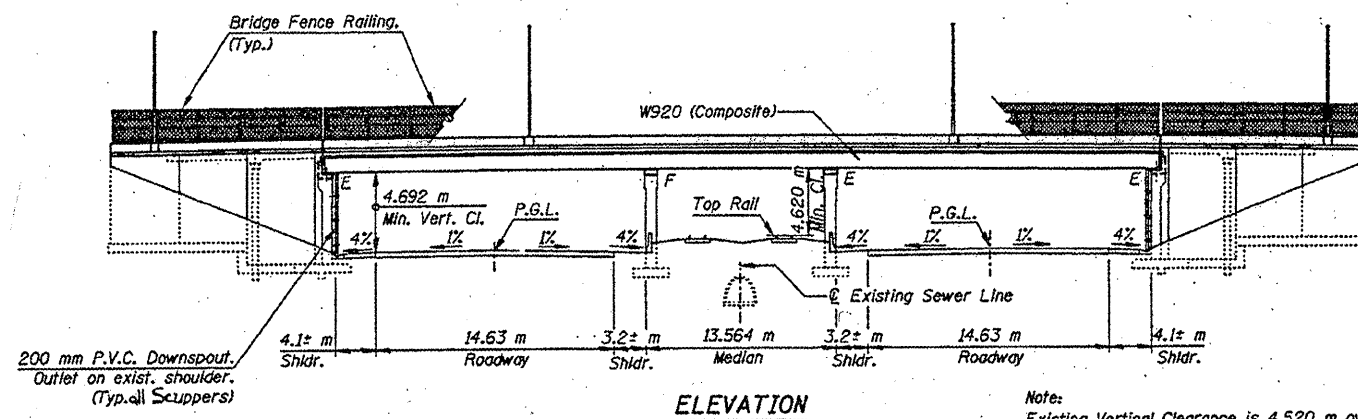
TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	36

- NOTES:**
- REPLACE MISSING RIPE AROUND PIPES AT NW AND SW CORNERS OF WEST ABUTMENT
 - REPLACE BOTTOM 8 FT OF PIPE AT S.E. END OF EAST ABUTMENT
 - REPLACE BOTTOM PIPE ELBOW AT N.E. END OF EAST ABUTMENT
- COST OF ALL REPAIRS INCLUDED IN "BRIDGE DRAINAGE SYSTEM REPAIRS"

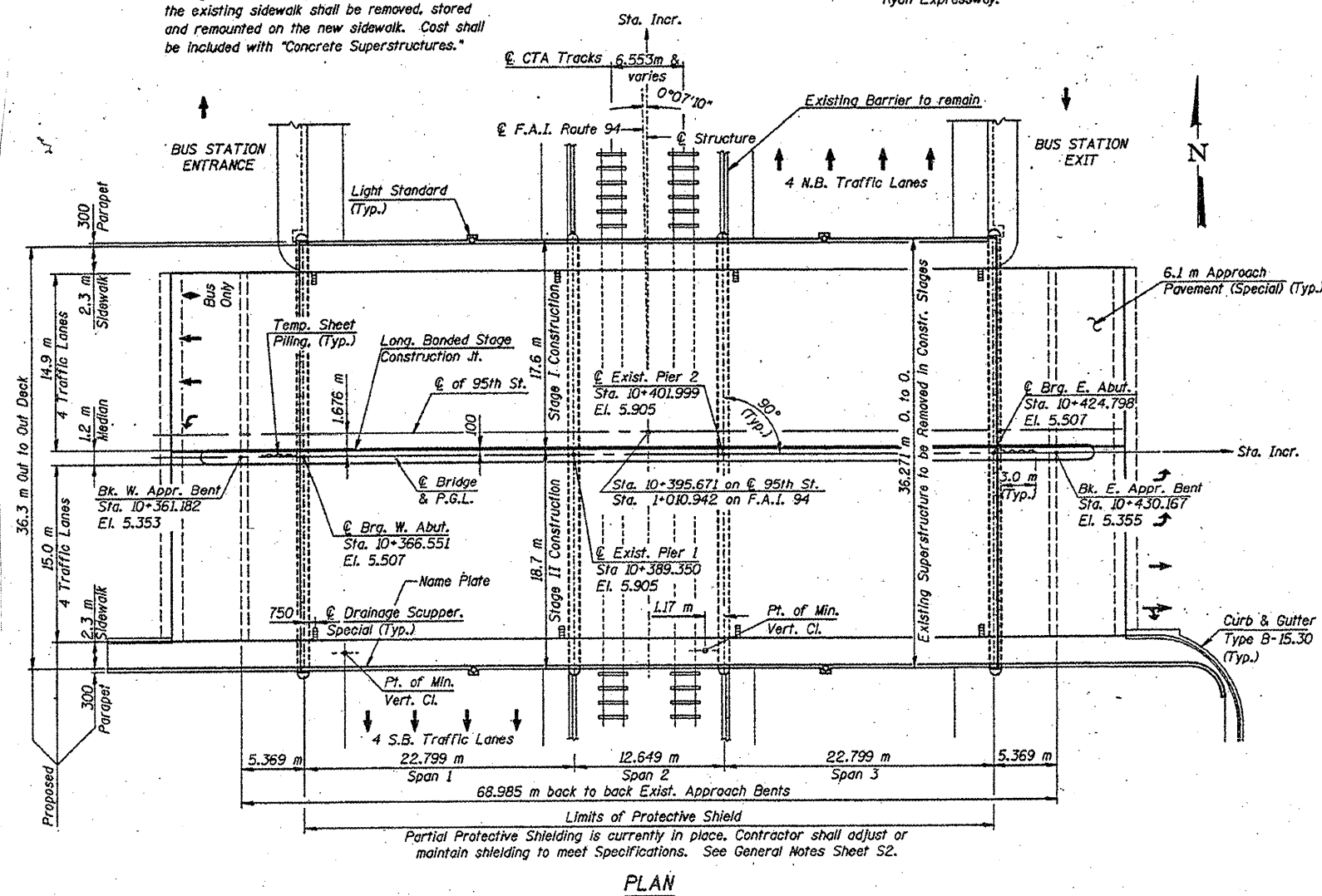
**ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
DRAINAGE ELEVATION
SN: 016-1142
SHEET 2 OF 2**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	27



Note:
Existing Vertical Clearance is 4.520 m over the CTA tracks and 4.572 m over the Dan Ryan Expressway.

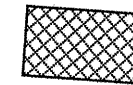
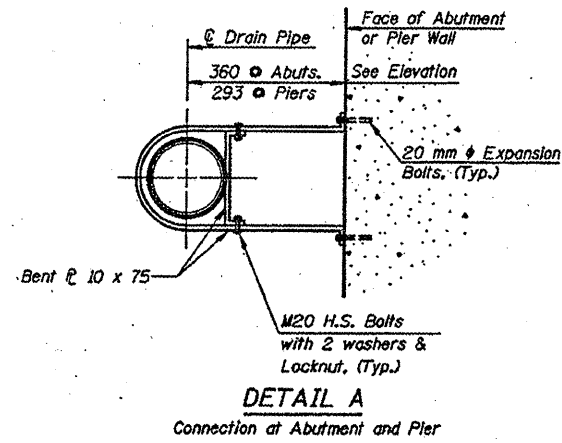
All signposts and bicycle racks mounted on the existing sidewalk shall be removed, stored and remounted on the new sidewalk. Cost shall be included with "Concrete Superstructures."



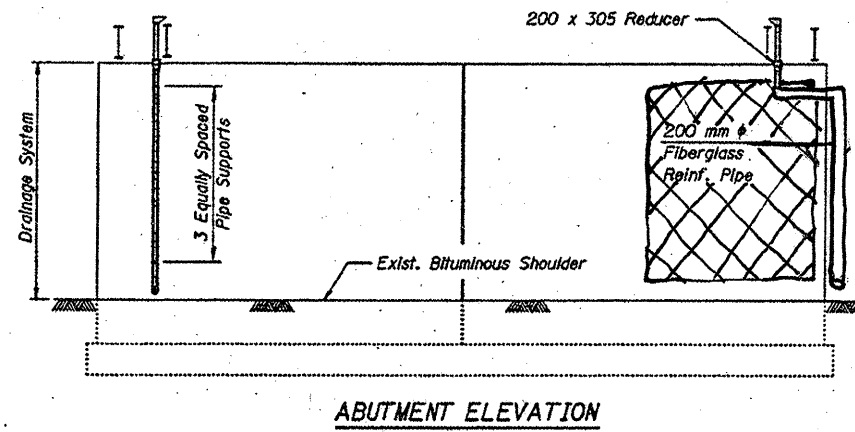
FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PLAN & ELEVATION
SN: 016-0437
SHEET 1 OF 2

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	28



STRUCTURAL REPAIR OF CONCRETE ≤ 5 INCHES



TOTAL BILL OF MATERIALS

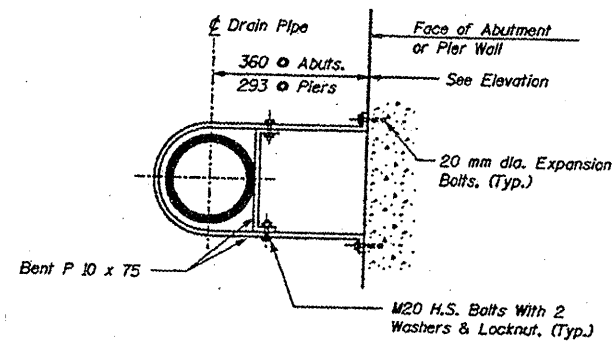
ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE ≤ 5 INCHES	SQ FT	120
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	3

NOTE:

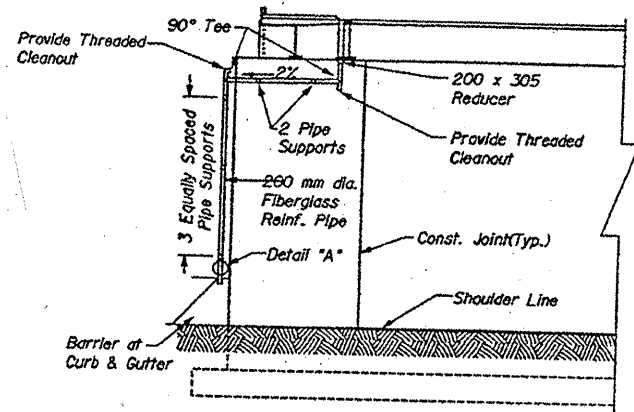
REPLACE DRAIN PIPE ELBOW AT SE CORNER OF EAST ABUTMENT. COST INCLUDED IN "BRIDGE DRAINAGE SYSTEM REPAIRS"

ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PIER & ABUTMENT ELEVATIONS
SN: 016-0437
SHEET 2 OF 2

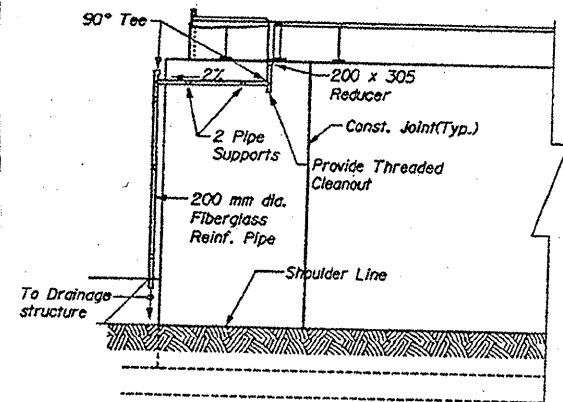
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	30



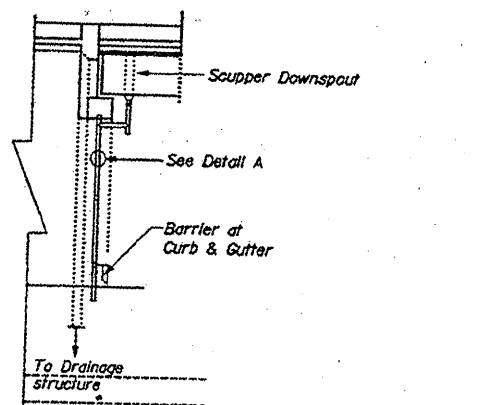
DETAIL A
CONNECTION AT ABUTMENT AND PIER



PARTIAL ABUTMENT ELEVATION
North portion of Abutment shown
South portion similar
(Typical for East & West Abut.)



PARTIAL PIER ELEVATION
North portion of Pier shown
South portion similar
(Typical for all piers)



END VIEW Shown at Abutment; Similar at piers

TOTAL BILL OF MATERIALS

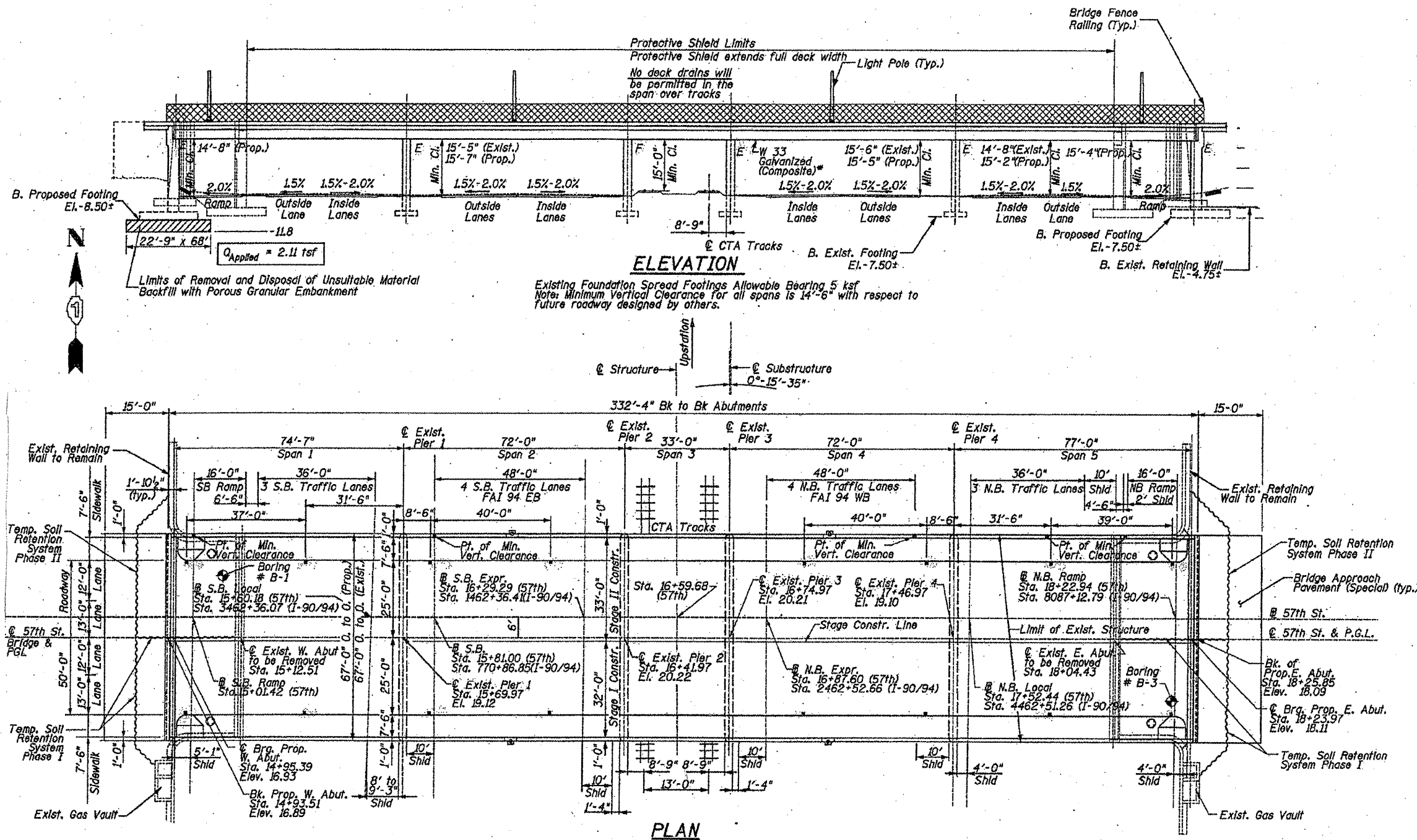
ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	15

NOTE:

BRIDGE DRAINAGE SYSTEM REPAIRS AT N.E. END OF EAST ABUTMENT AND SOUTH END OF PIER 2 AND PIER 3

ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PIER & ABUTMENT ELEVATIONS
SN: 016-1156
SHEET 2 OF 2

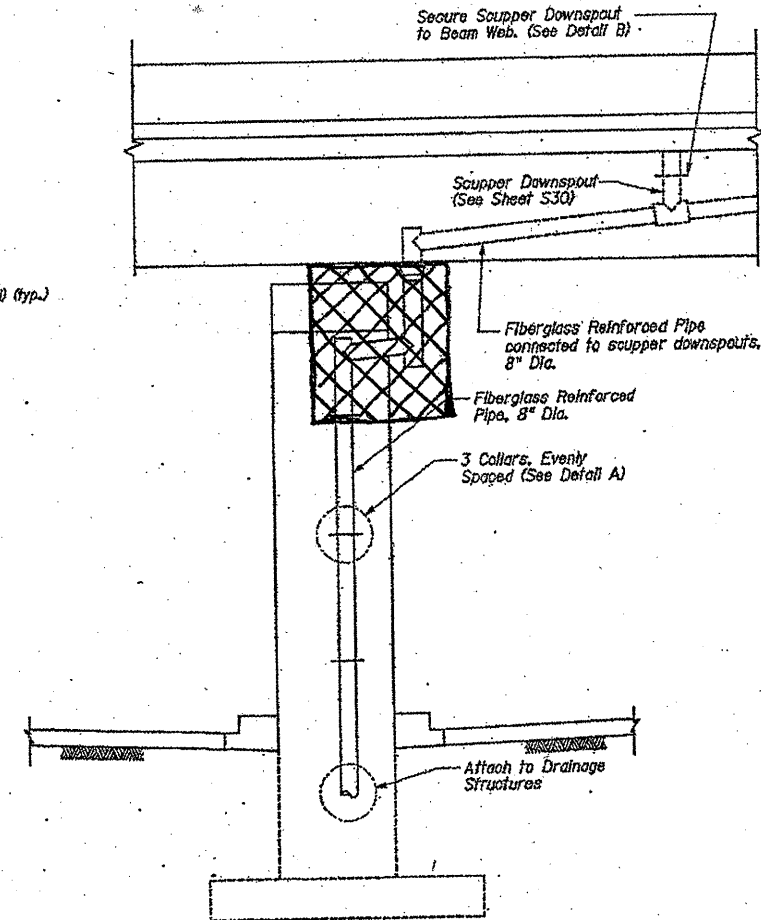
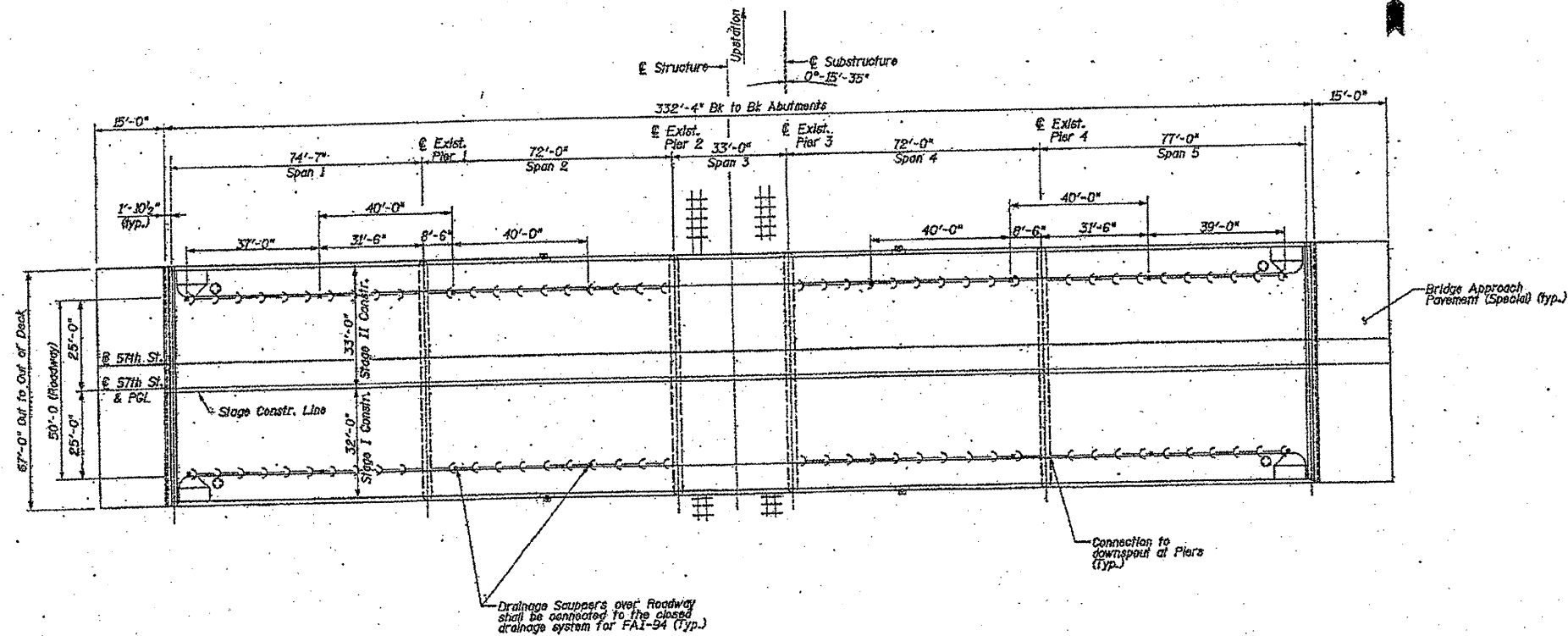
ROUTE VARIOUS	SECTION 2011-060-BR	COUNTY COOK	TOTAL SHEETS 49	SHEET NUMBER 31
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FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PLAN & ELEVATION
SN: 016-1151
SHEET 1 OF 2

ROUTE VARIOUS	SECTION 2011-060-BR	COUNTY COOK	TOTAL SHEETS 49	SHEET NUMBER 32
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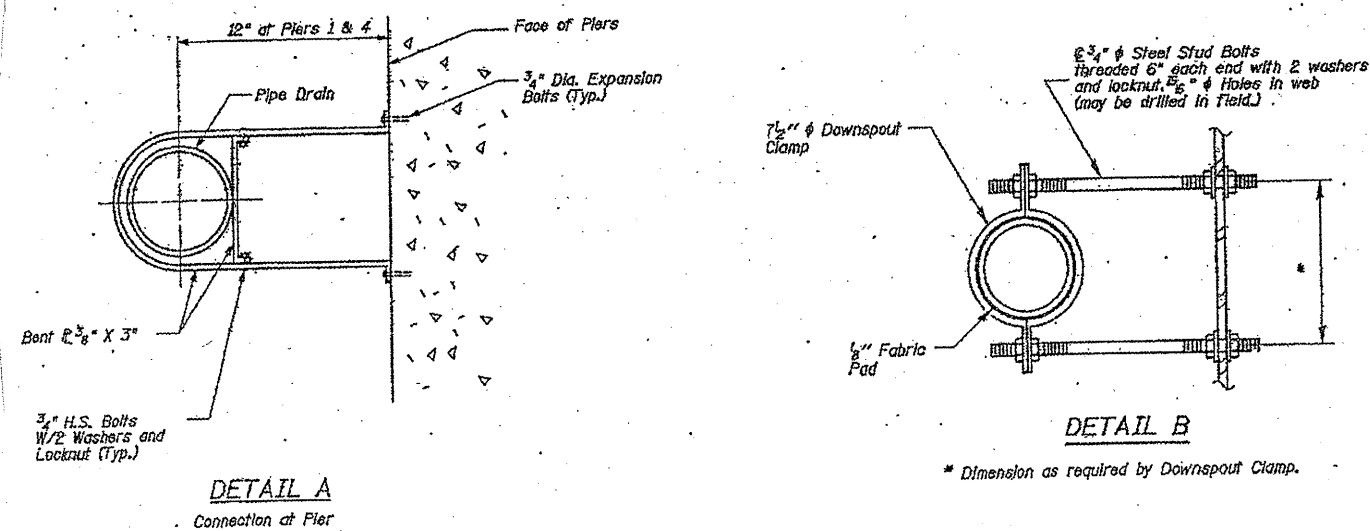


END VIEW

At Piers 1 and 4



LOCATION OF BRIDGE DRAINAGE SYSTEM REPAIRS



DETAIL A

Connection at Pier

DETAIL B

* Dimension as required by Downspout Clamp.

TOTAL BILL OF MATERIALS

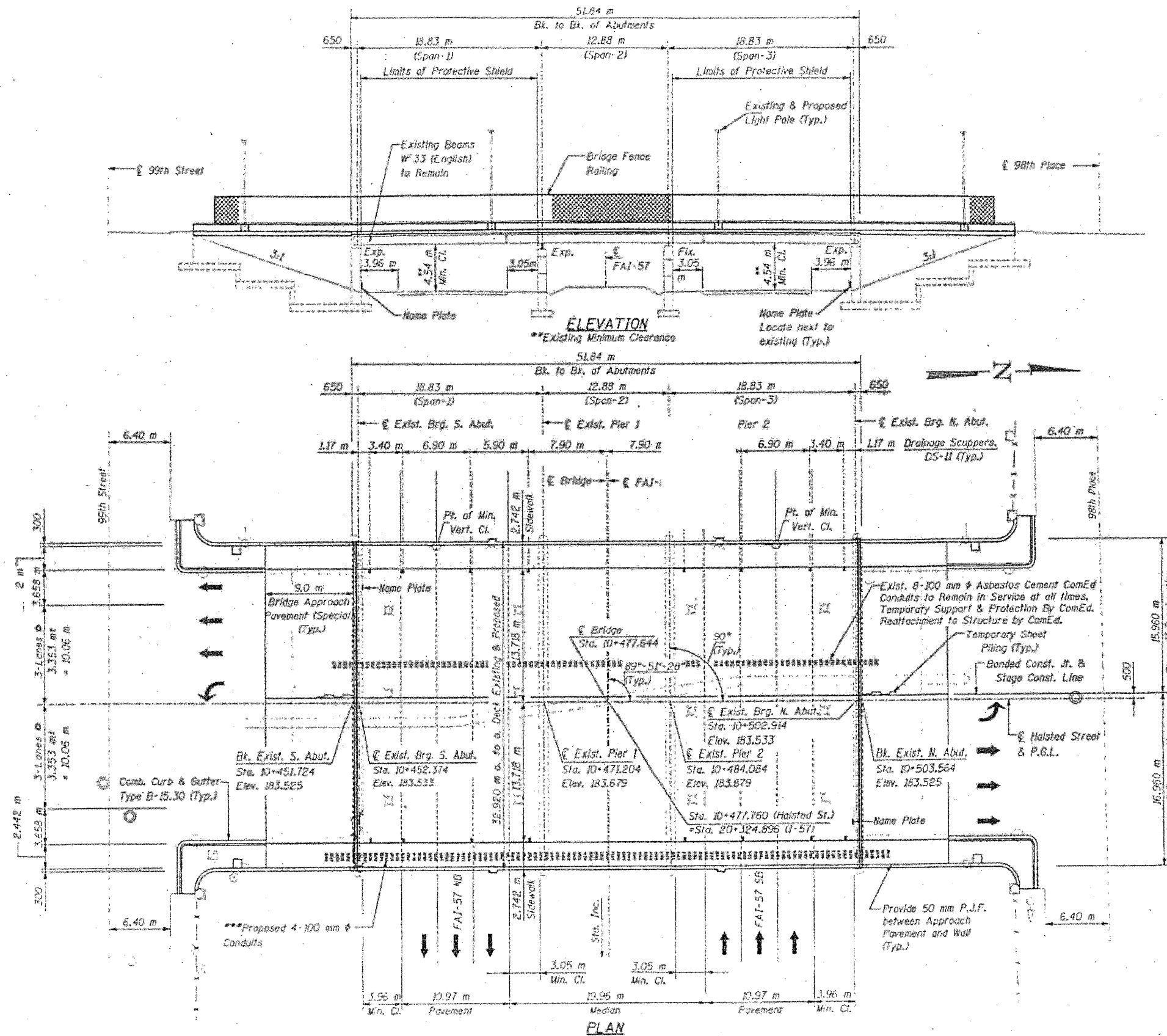
ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	20

NOTE:

BRIDGE DRAINAGE SYSTEM REPAIRS NORTH AND SOUTH END OF PIER 4 (AT PIER NOSE)

ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURAL REPAIRS
DRAINAGE SYSTEM
SN: 016-1151
SHEET 2 OF 2

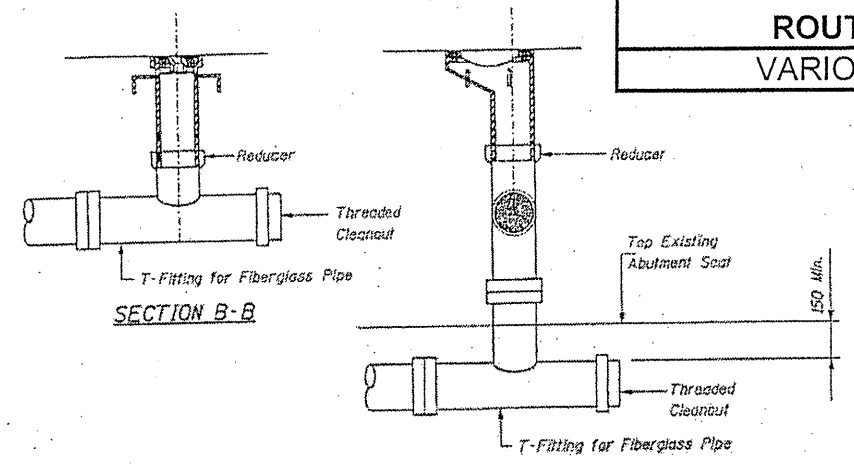
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	43	33



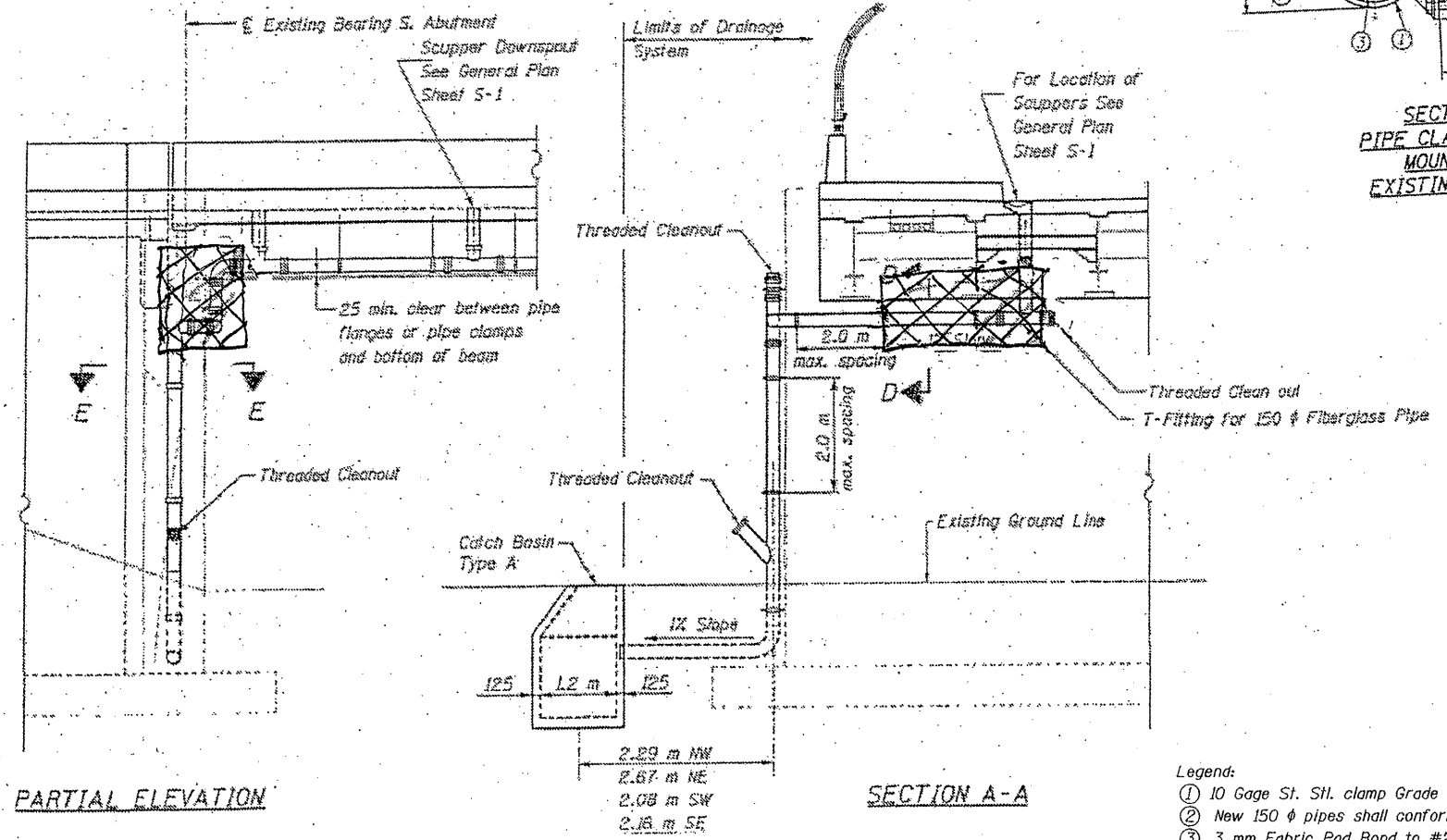
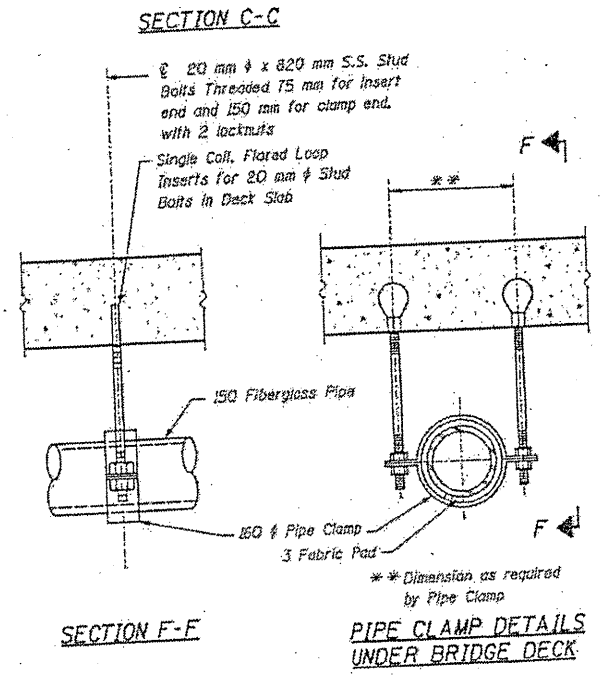
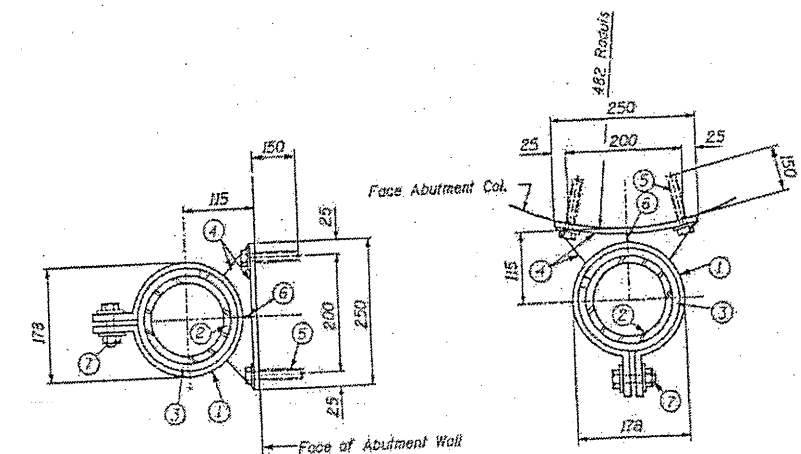
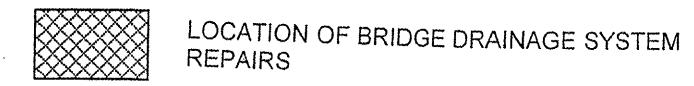
FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
 TRANSPORTATION
 STRUCTURAL REPAIRS
 PLAN & ELEVATION
 SN: 016-2036
 SHEET 1 OF 2

ROUTE VARIOUS	SECTION 2011-060-BR	COUNTY COOK	TOTAL SHEETS 49	SHEET NUMBER 34
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Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 200 MPa minimum. The surface of the Fiberglass pipe shall be free of bond inhibiting agents.
 The exterior surfaces of the Fiberglass pipe shall be coated by the manufacturer with a pigment that matches the color of the concrete.
 The clamping device and inserts shall be galvanized according to AASHTO M 232.
 All dimensions are in millimeters (mm) except as noted.



TOTAL BILL OF MATERIALS

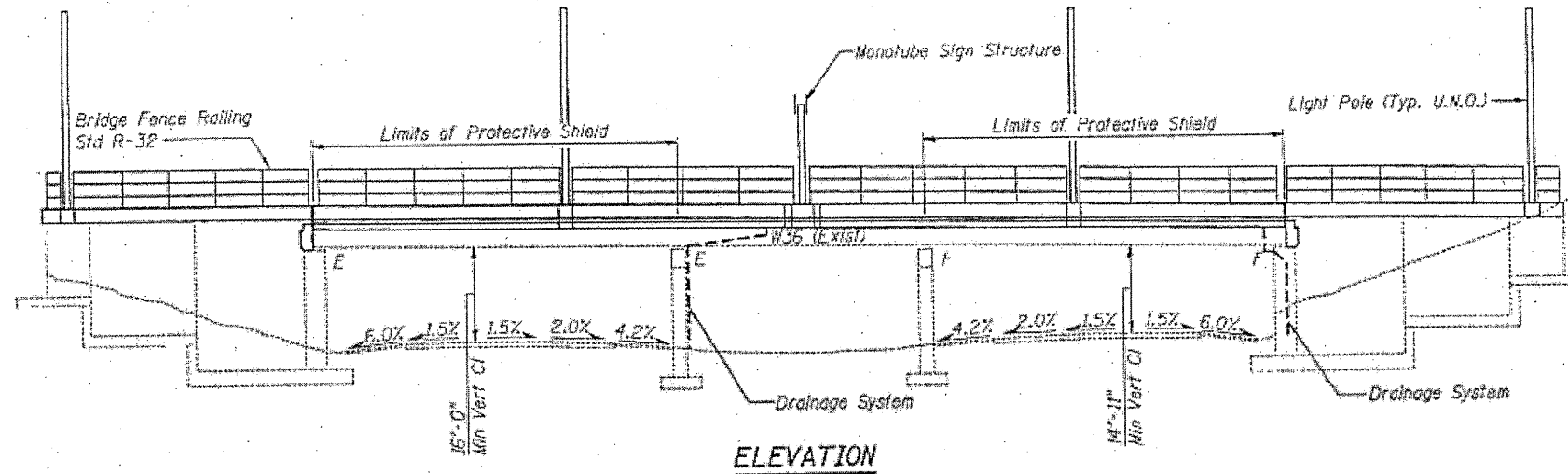
ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	19

NOTE:
 BRIDGE DRAINAGE SYSTEM REPAIRS EAST END OF SOUTH ABUTMENT
 (REPLACE DAMAGED SECTIONS)

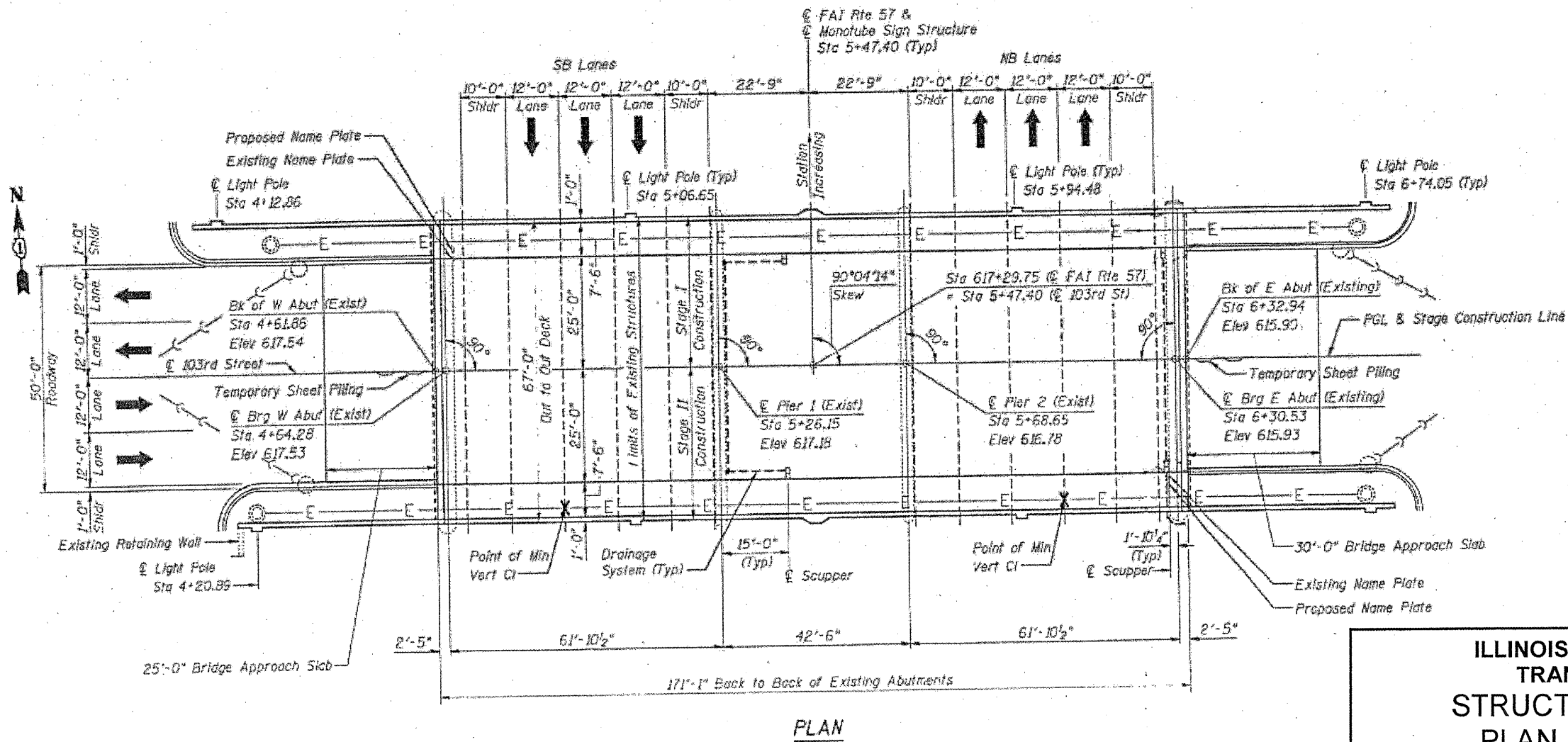
- Legends:**
- ① 10 Gage St. Stl. clamp Grade 304.
 - ② New 150 φ pipes shall conform to ASTM D2996.
 - ③ 3 mm Fabric Pad Bond to #2. Place at all Clamp Locations.
 - ④ Bent Anchor PL - 7 Gage St. Stl. Grade 304.
 - ⑤ 20 φ Threaded Stainless Steel Anchor Rod & Nut (with flat washer & lock washer) Epoxy Grouted.
 - ⑥ 7 Gage St. Stl. Gusst Pl. Weld to #1 & 4.
 - ⑦ 25 φ x 25 mm Lg. St. Stl. Hex Head Bolt with Nut & Lock Washer.

**ILLINOIS DEPARTMENT OF
 TRANSPORTATION
 STRUCTURAL REPAIRS
 DRAINAGE ELEVATION
 SN: 016-2036
 SHEET 2 OF 2**

ROUTE VARIOUS	SECTION 2011-060-BR	COUNTY COOK	TOTAL SHEETS 49	SHEET NUMBER 35
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ELEVATION

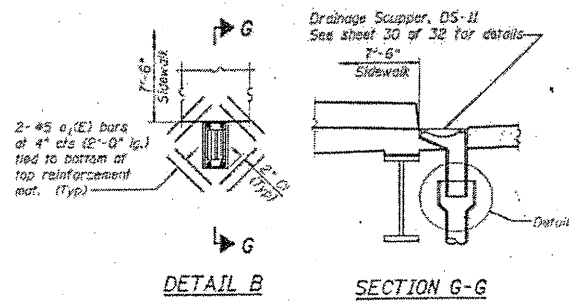
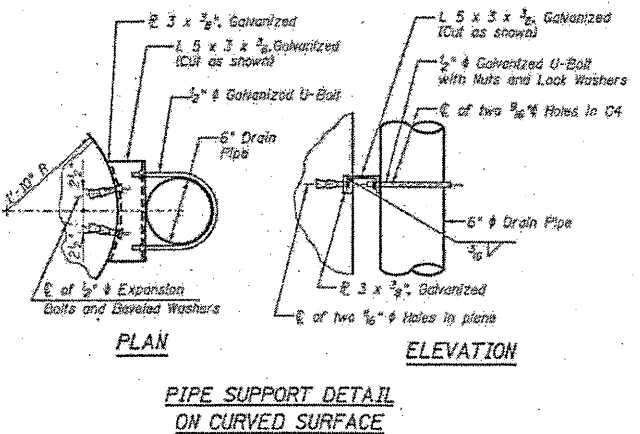
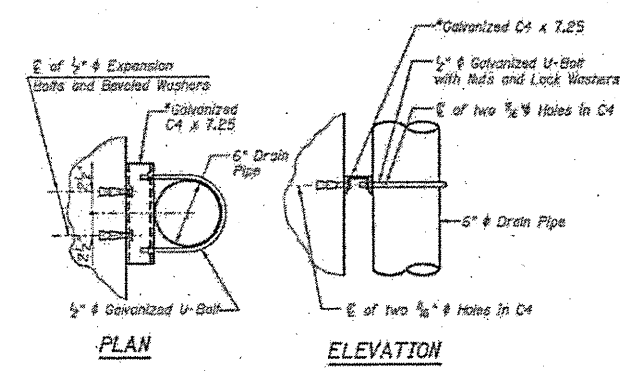
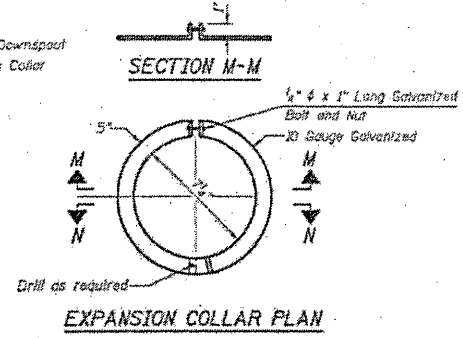
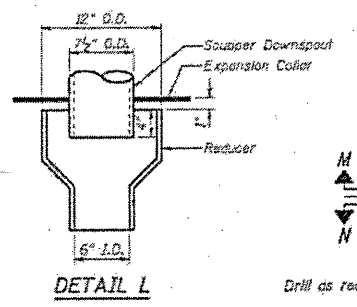
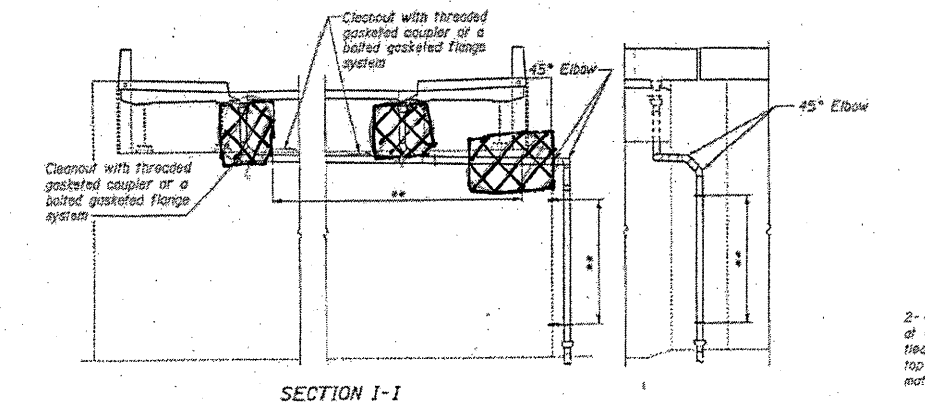
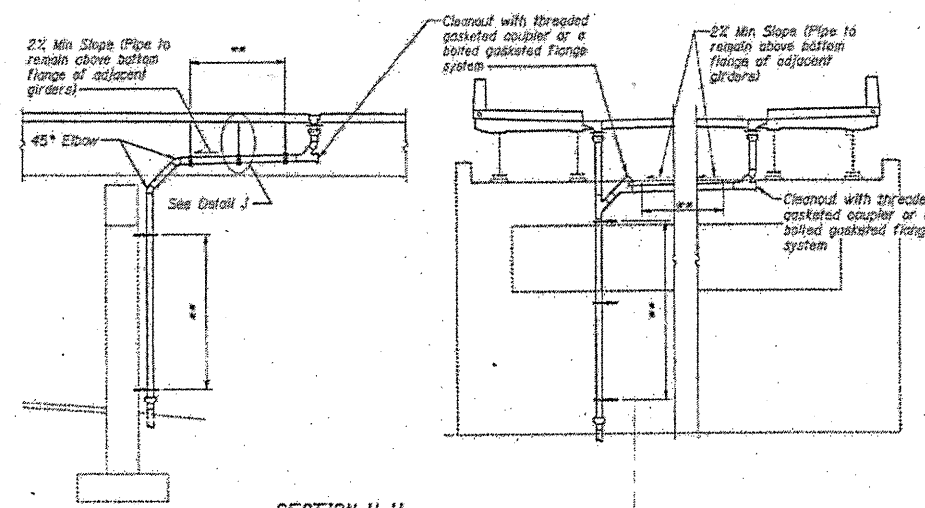
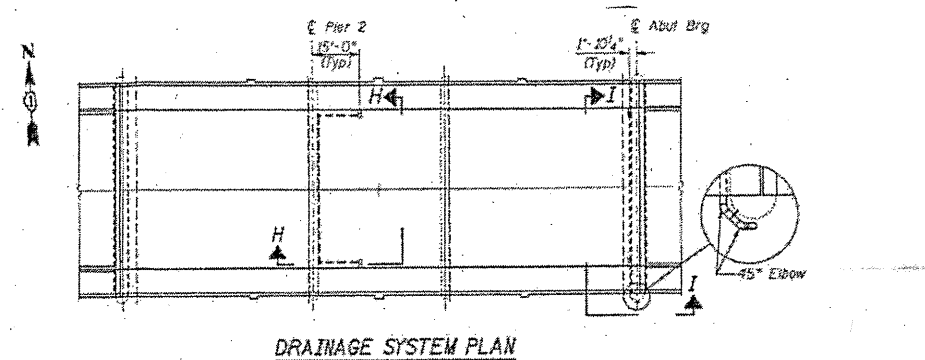


PLAN

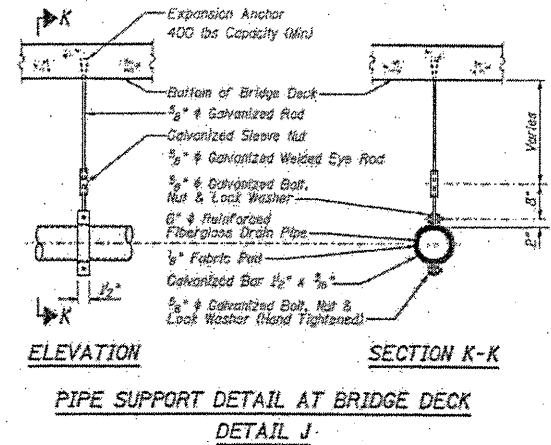
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ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PLAN & ELEVATION
SN: 016-2127
SHEET 1 OF 2

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	36



Notes:
 See Special Provisions for Drainage System Installation and material.
 See Sheet 9 of 32 for locations of Detail B.
 * Larger channel sections may be used if required for drain pipe to clear miscellaneous attachments to substructure units as approved by the engineer.
 ** Pipe Supports @ 5'-0" Max Spacing.
 *** See Roadway Drainage and Utilities Sheets for connection of drainage system to existing I-57 catch basin structures.



TOTAL BILL OF MATERIALS

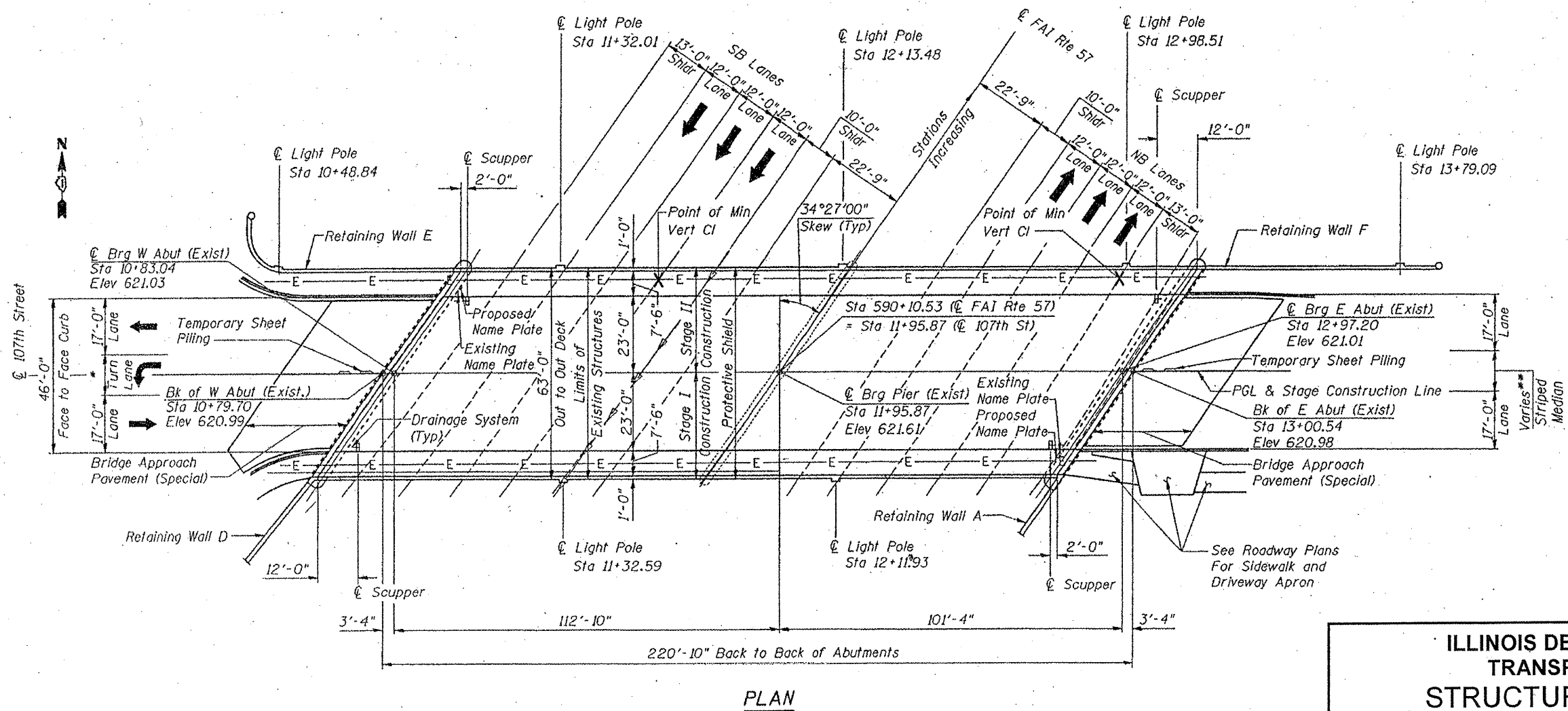
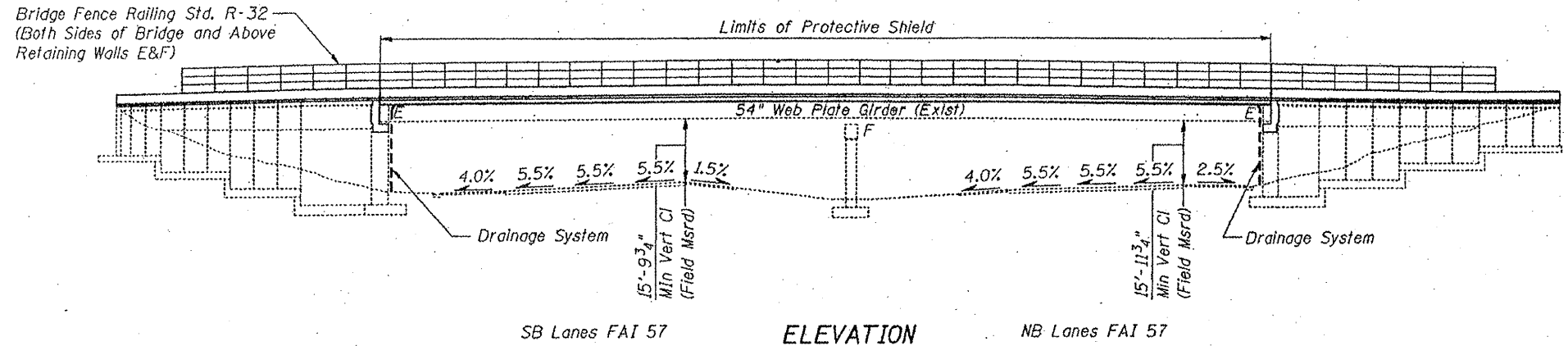
ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	16

NOTE:
 BRIDGE DRAINAGE SYSTEM REPAIRS NORTH AND SOUTH END OF EAST ABUTMENT (REPLACE MISSING SECTIONS)

LOCATION OF BRIDGE DRAINAGE SYSTEM REPAIRS

**ILLINOIS DEPARTMENT OF TRANSPORTATION
 STRUCTURAL REPAIRS
 DRAINAGE SECTIONS
 SN: 016-2127
 SHEET 2 OF 2**

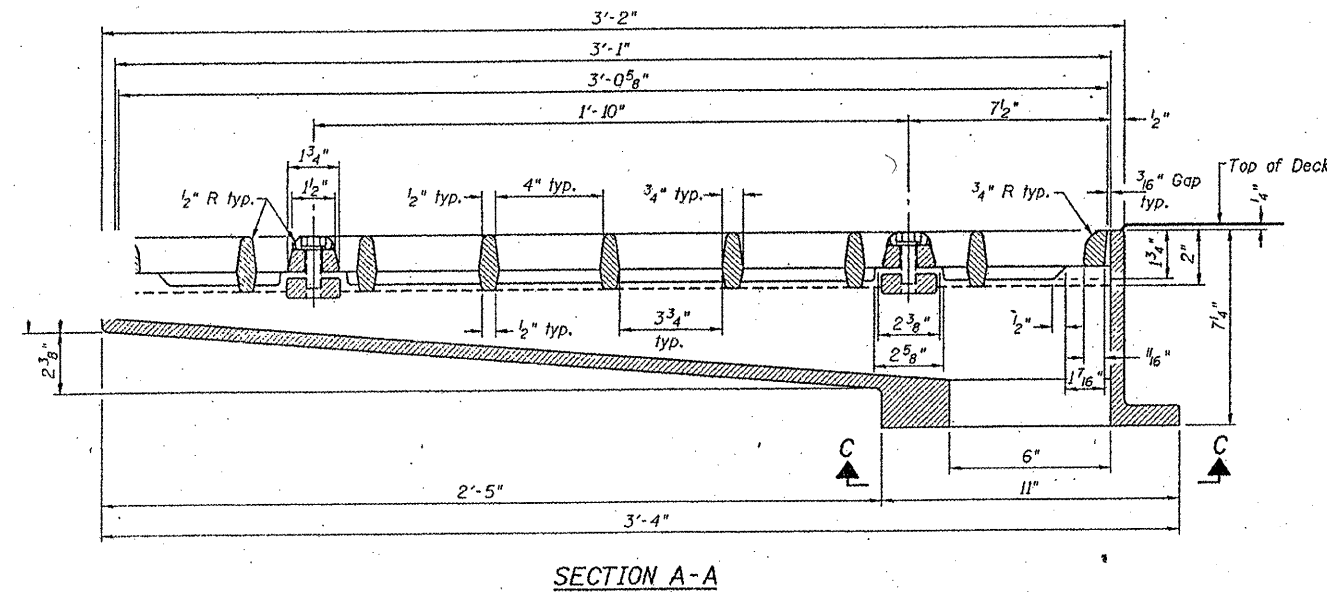
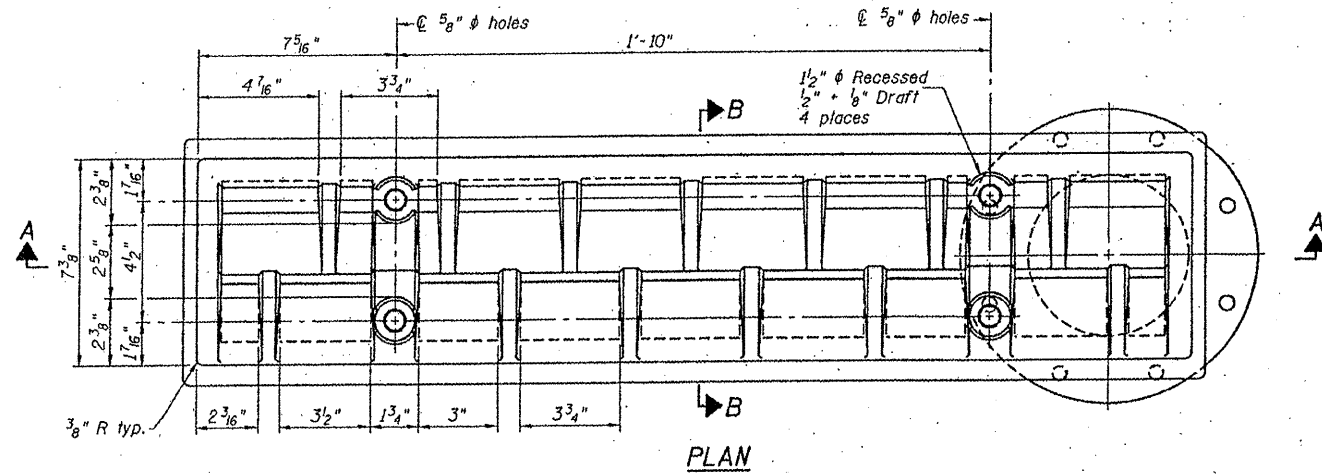
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	37



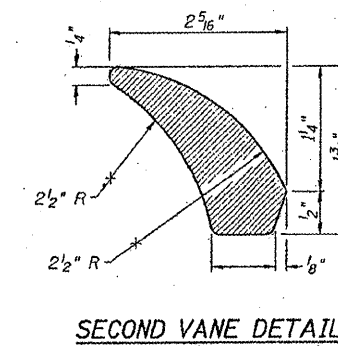
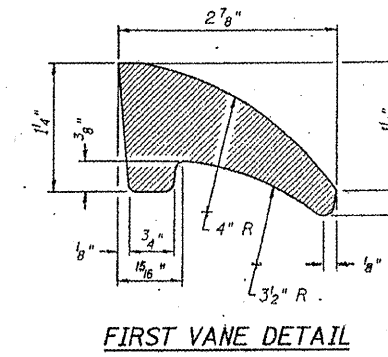
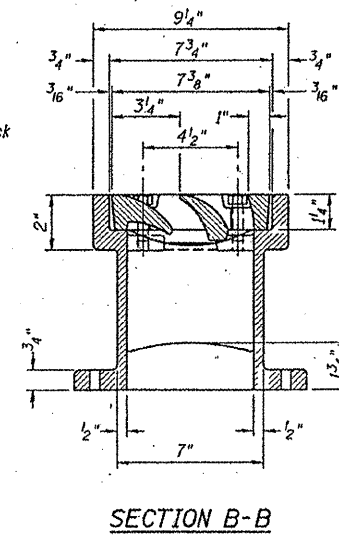
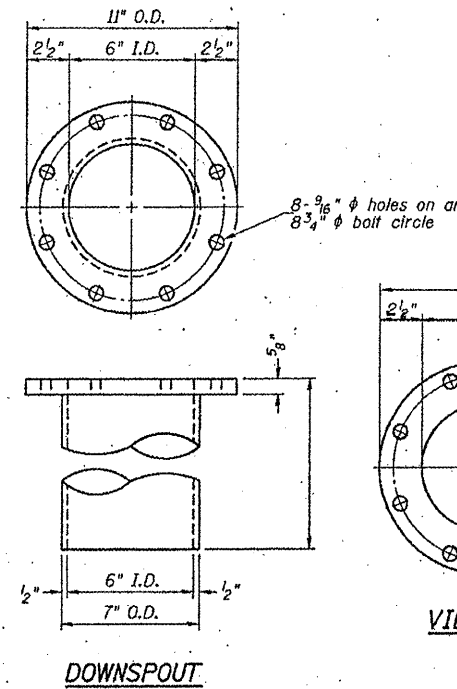
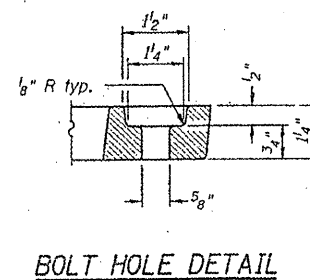
FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PLAN & ELEVATION
SN: 016-2031
SHEET 1 OF 3

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	38



See sheet 7 for scupper location relative to parapet.

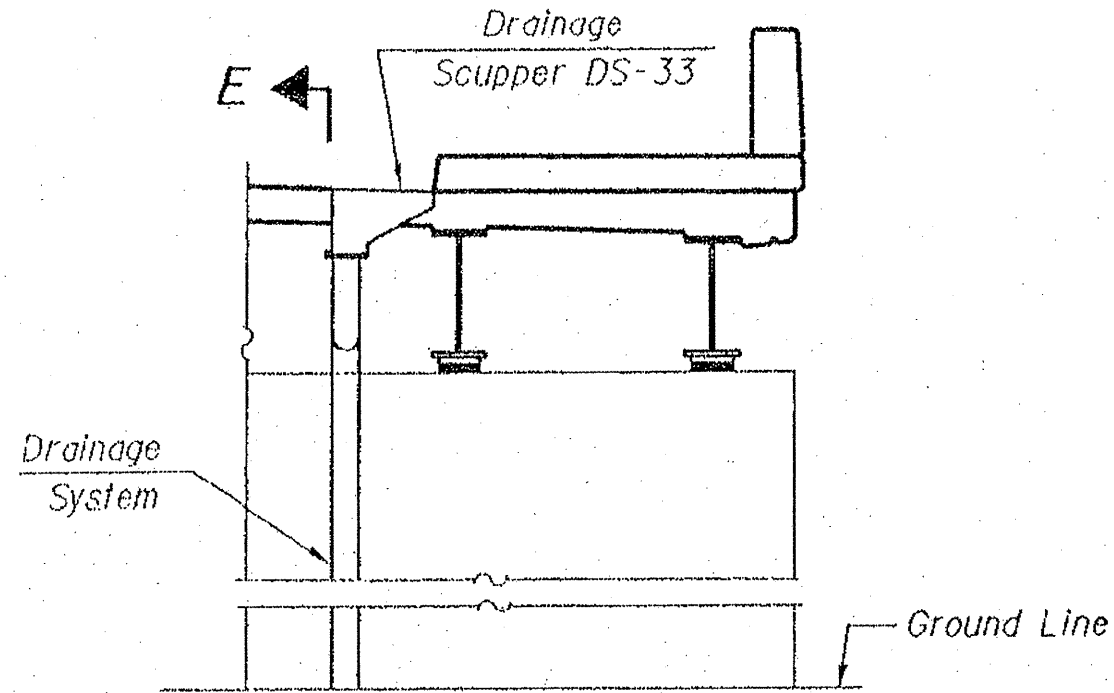


Notes: All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
 Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.
 The grate, frame and downspout shall be galvanized according to AASHTO M 111 and ASTM A 385. Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.
 As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-33.

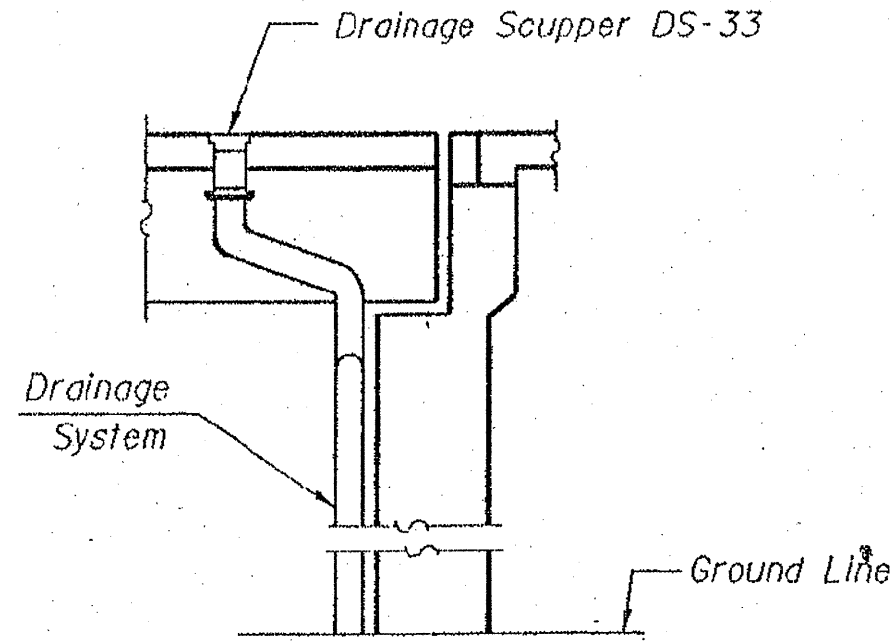
FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
 TRANSPORTATION
 STRUCTURAL REPAIRS
 PLAN & ELEVATION
 SN: 016-2031
 SHEET 2 OF 3

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	39

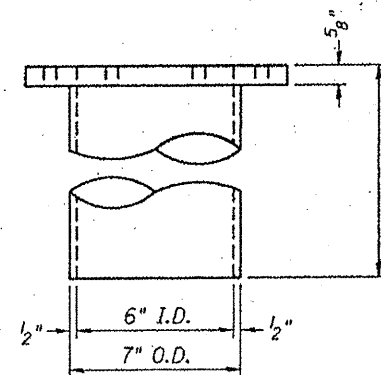


ABUTMENT ELEVATION



SECTION E-E

DRAINAGE SYSTEM LAYOUT



DOWNSPOUT

TOTAL BILL OF MATERIALS

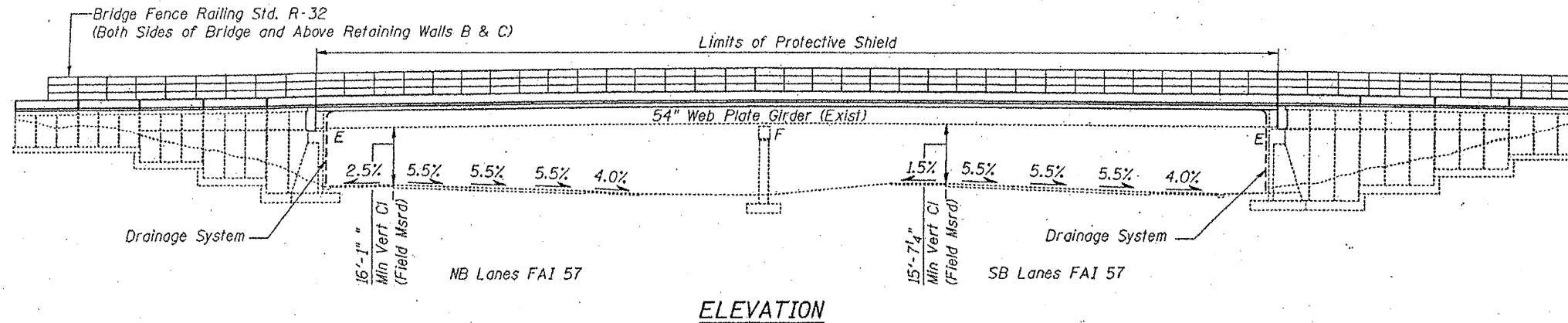
ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	33

NOTE:

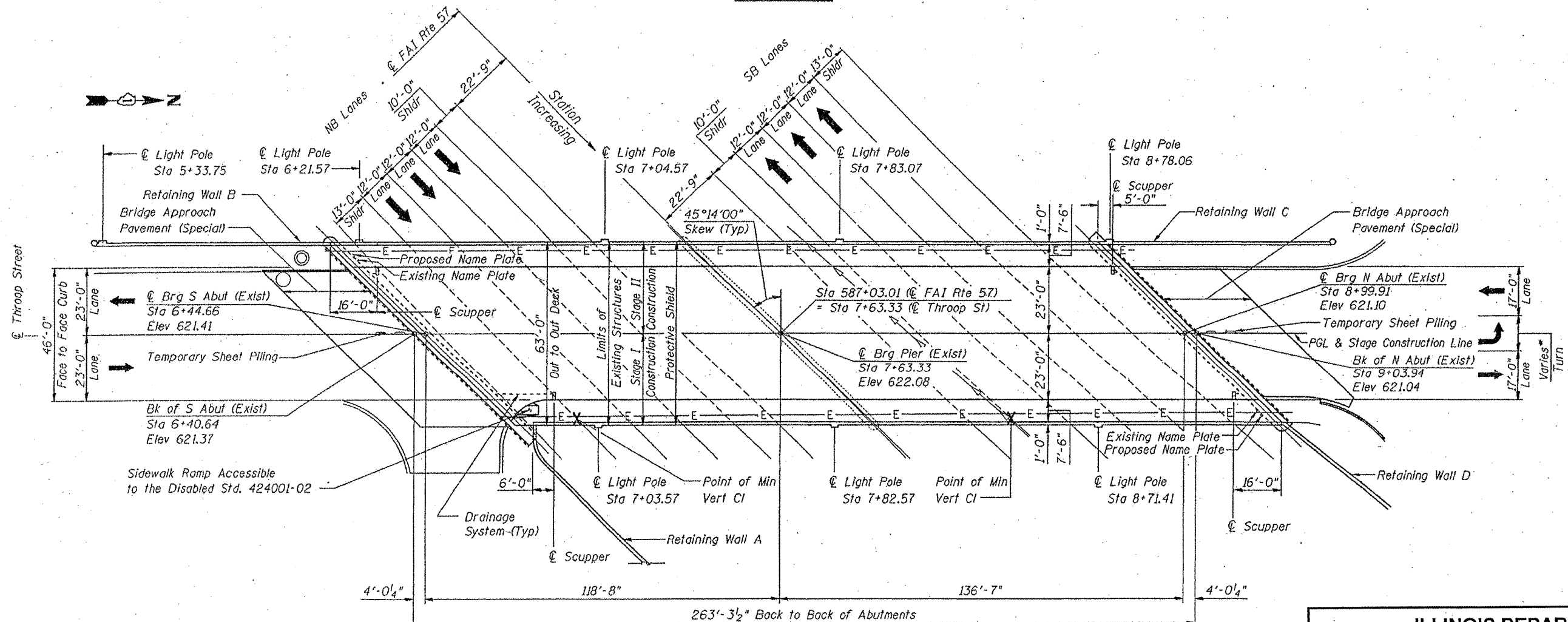
- BRIDGE DRAINAGE SYSTEM REPAIRS NORTH AND SOUTH END OF EAST ABUTMENT
- REPLACE BOTTOM 8 FT OF DRAIN PIPE AT NE & SE CORNERS WITH DUCTILE IRON PIPES.
- AT NE CORNER REPLACE TOP 10 FT WITH FIBERGLASS PIPE.

ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PLAN & ELEVATION
SN: 016-2031
SHEET 3 OF 3

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	40



ELEVATION

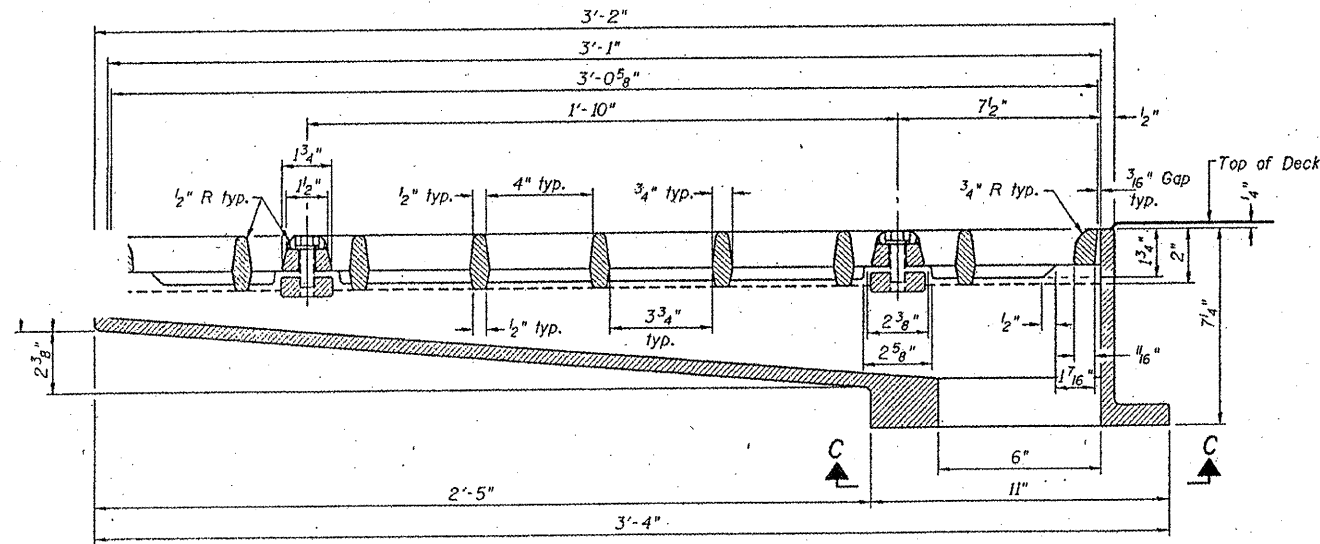
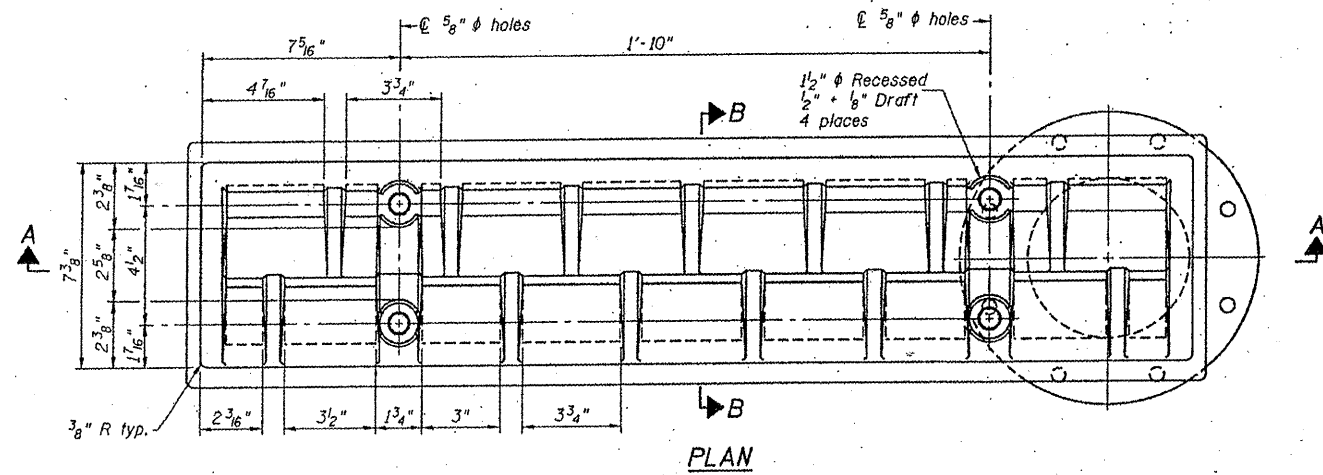


PLAN

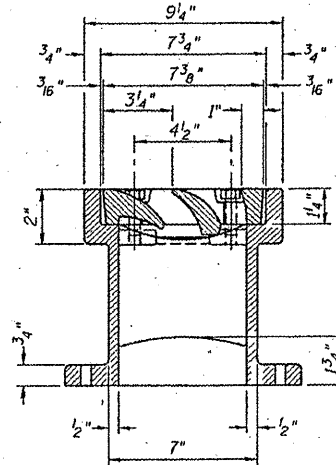
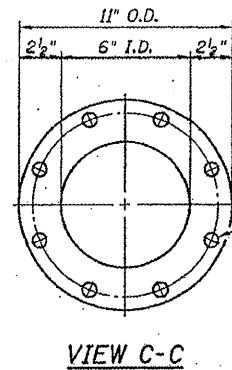
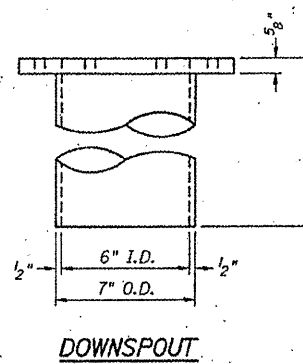
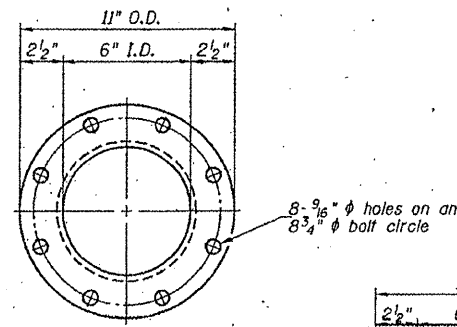
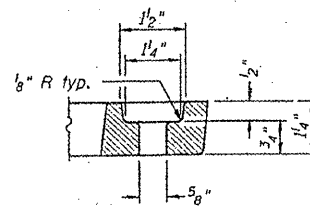
FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PLAN & ELEVATION
SN: 016-2032
SHEET 1 OF 3

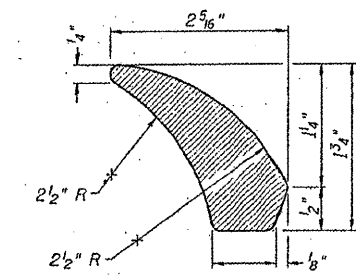
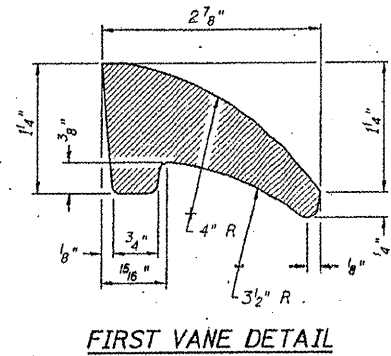
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	41



See sheet 7 for scupper location relative to parapet.



SECTION B-B



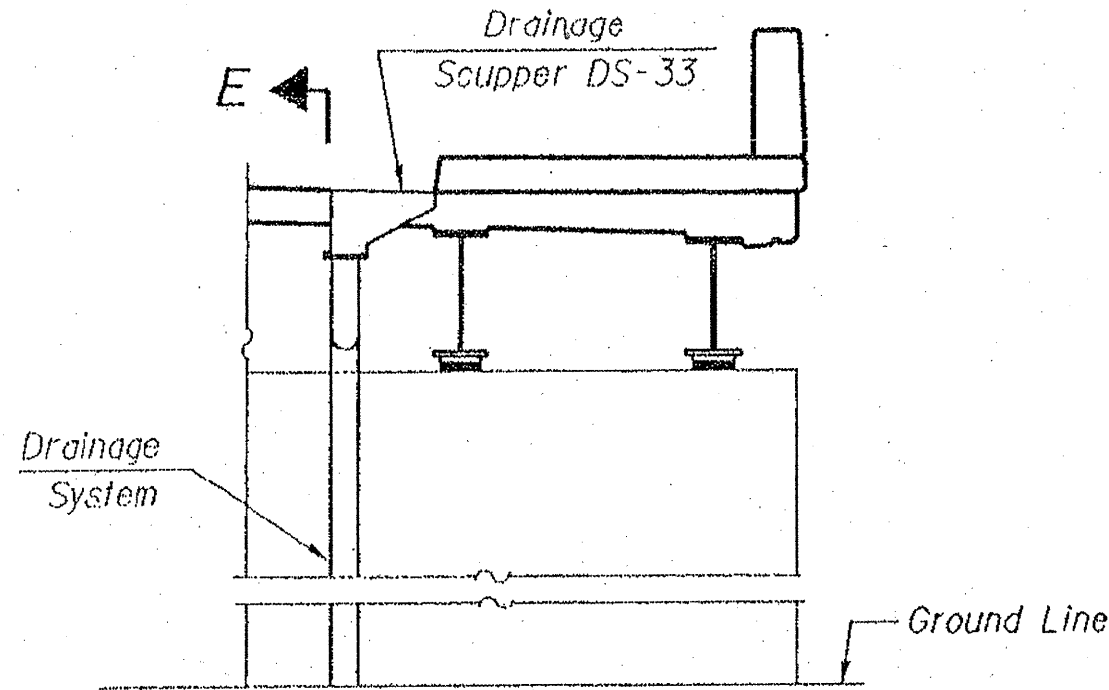
SECOND VANE DETAIL

Notes: All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
 Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.
 The grate, frame and downspout shall be galvanized according to AASHTO M 111 and ASTM A 385. Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.
 As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-33.

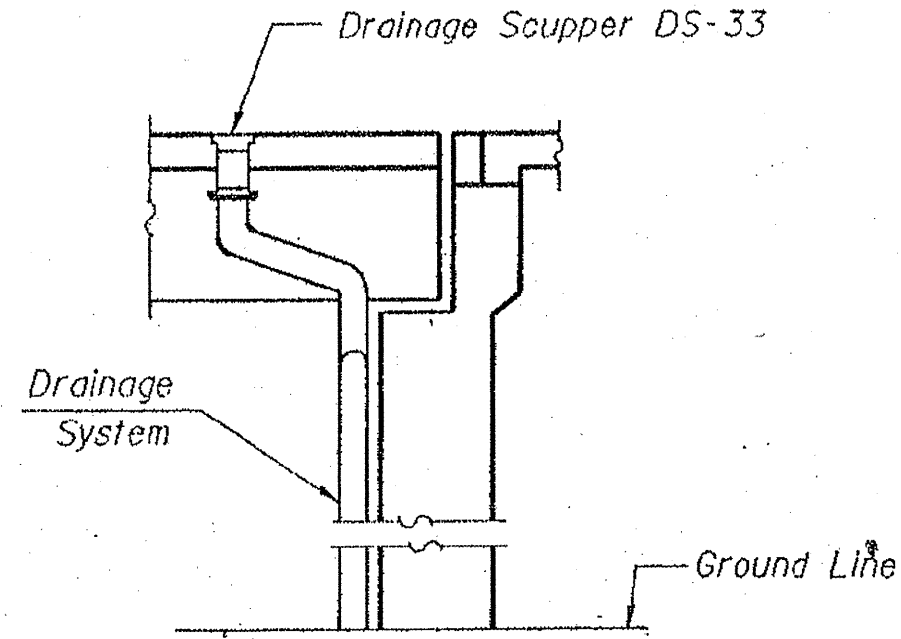
FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
 TRANSPORTATION
 STRUCTURAL REPAIRS
 PLAN & ELEVATION
 SN: 016-2032
 SHEET 2 OF 3

ROUTE VARIOUS	SECTION 2011-060-BR	COUNTY COOK	TOTAL SHEETS 49	SHEET NUMBER 42
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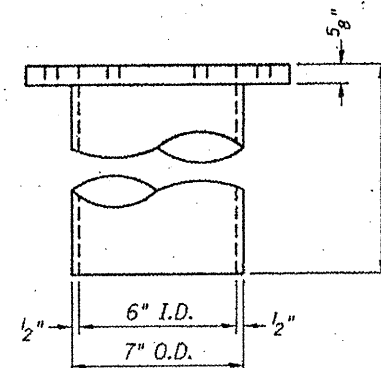


ABUTMENT ELEVATION



SECTION E-E

DRAINAGE SYSTEM LAYOUT



DOWNSPOUT

TOTAL BILL OF MATERIALS

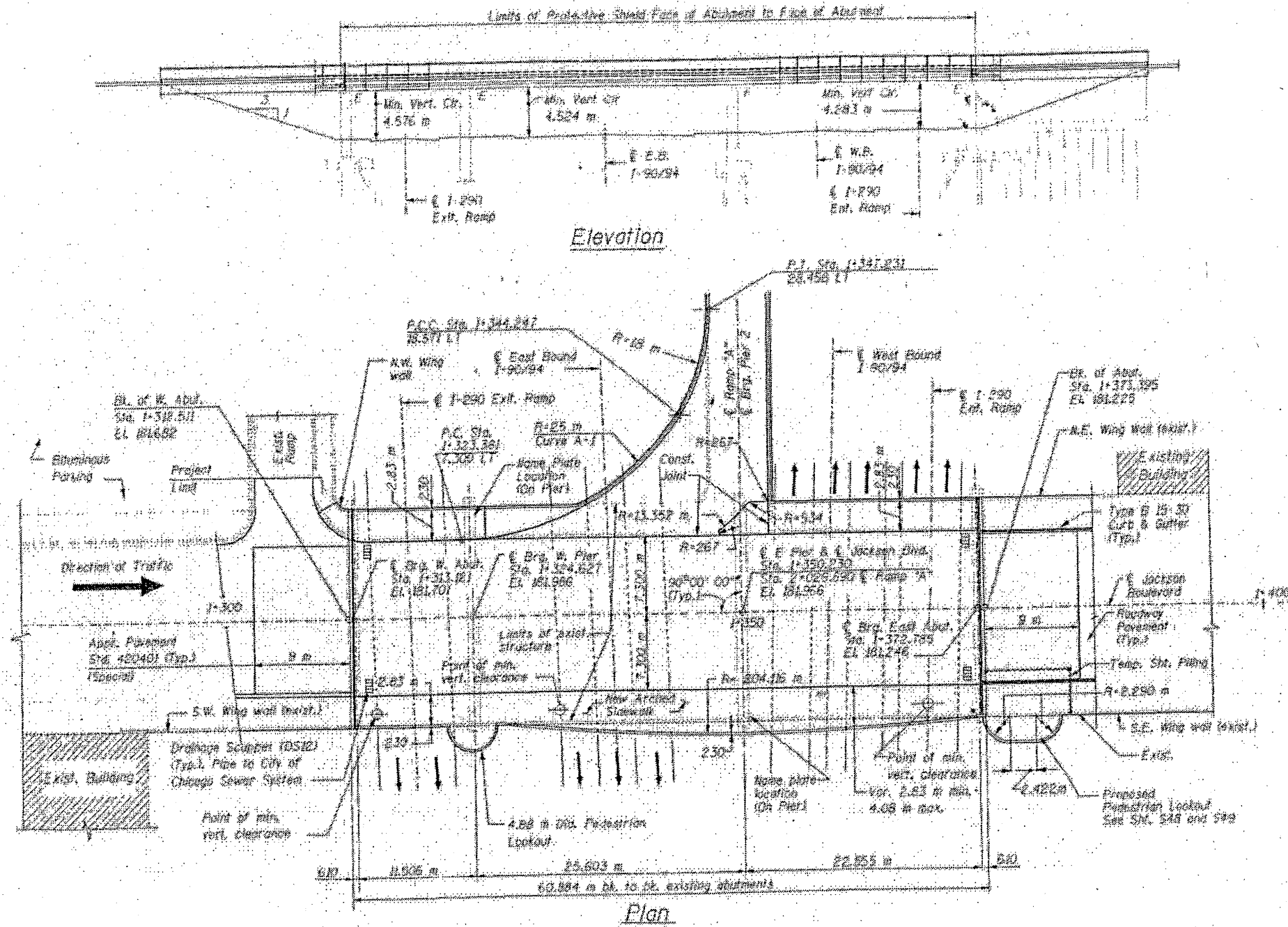
ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	20

NOTE:

- BRIDGE DRAINAGE SYSTEM REPAIRS WEST AND EAST END OF SOUTH ABUTMENT
- REPLACE BOTTOM 8 FT OF DRAIN PIPE WITH DUCTILE IRON PIPES.

ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PLAN & ELEVATION
SN: 016-2032
SHEET 3 OF 3

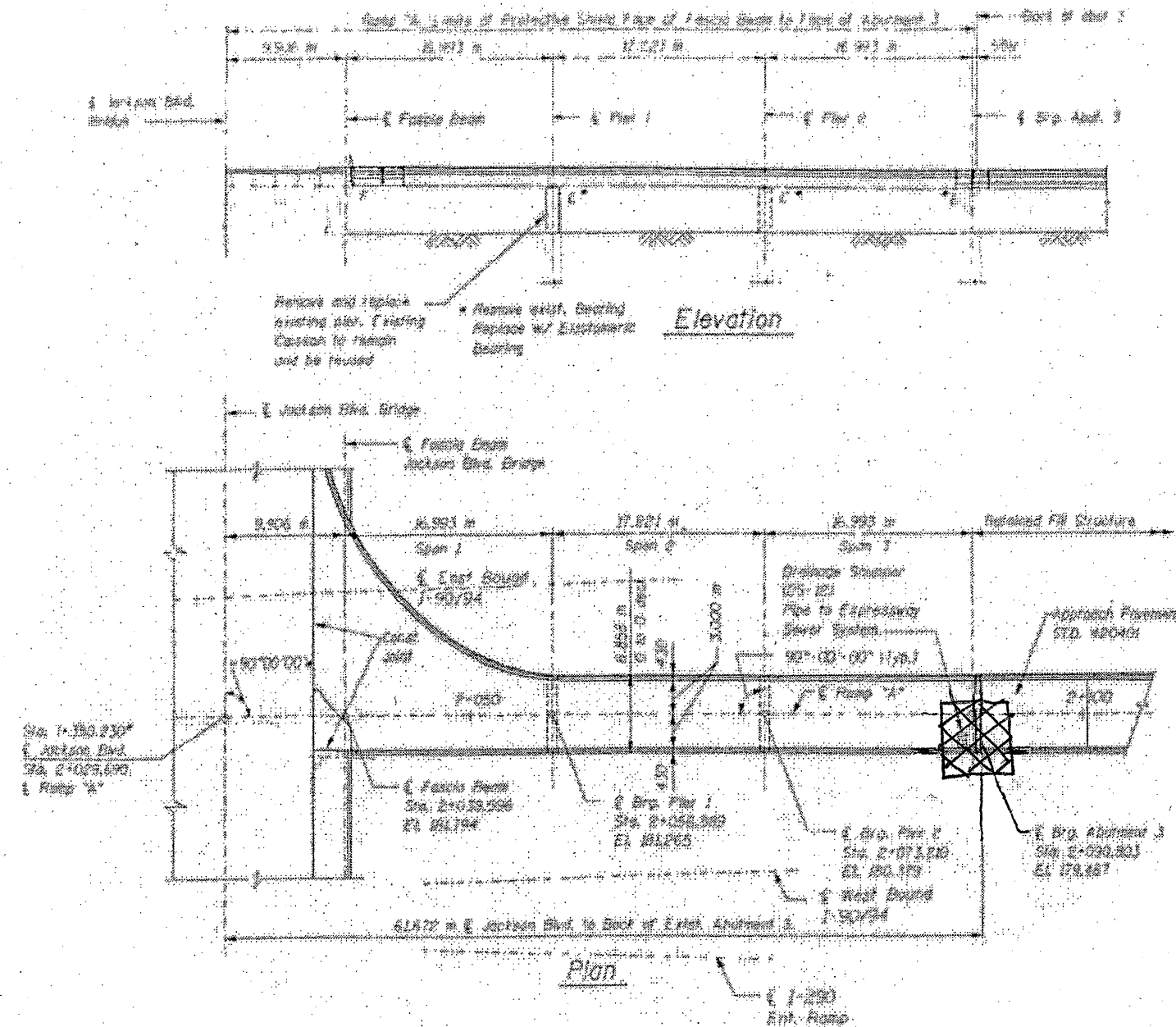
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	43



FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PLAN & ELEVATION
SN: 016-0588
SHEET 1 OF 3

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	44



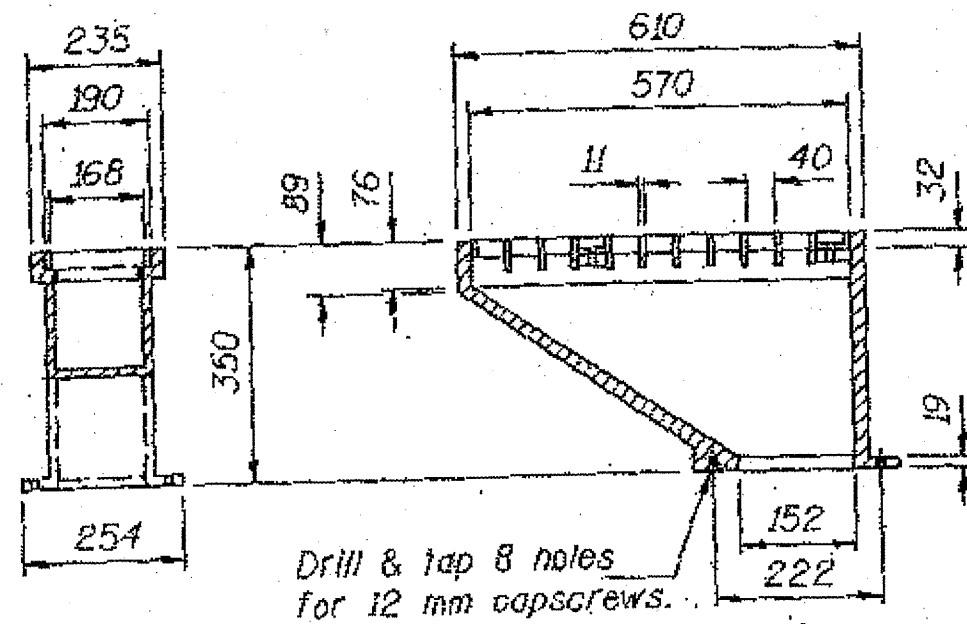
 DRAINAGE PIPE EXTENSION

ILLINOIS DEPARTMENT OF
 TRANSPORTATION
 STRUCTURAL REPAIRS
 PLAN & ELEVATION
 SN: 016-0588
 SHEET 2 OF 3

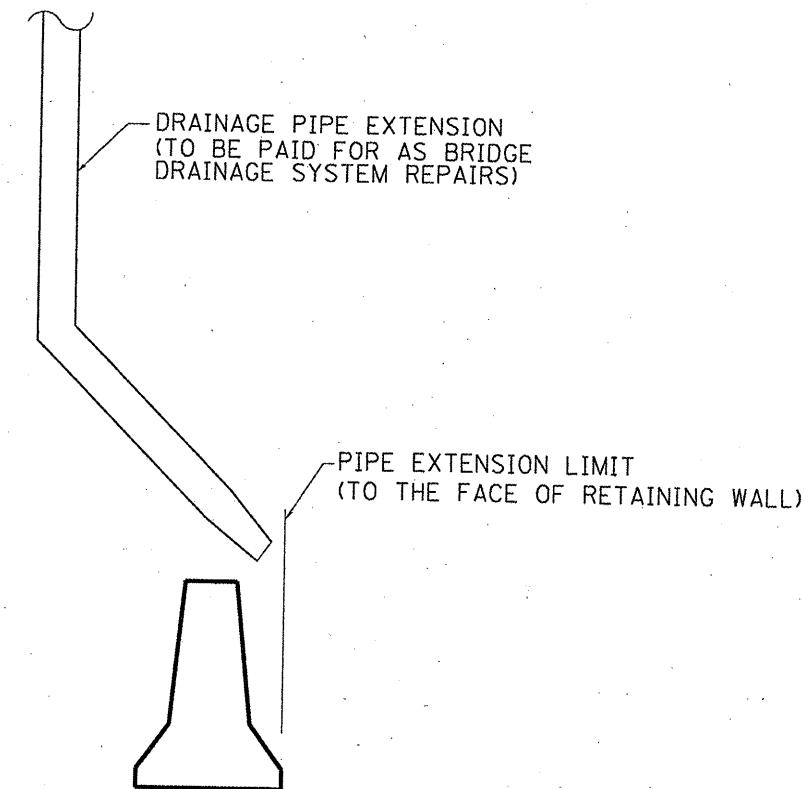
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	44A

TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	20

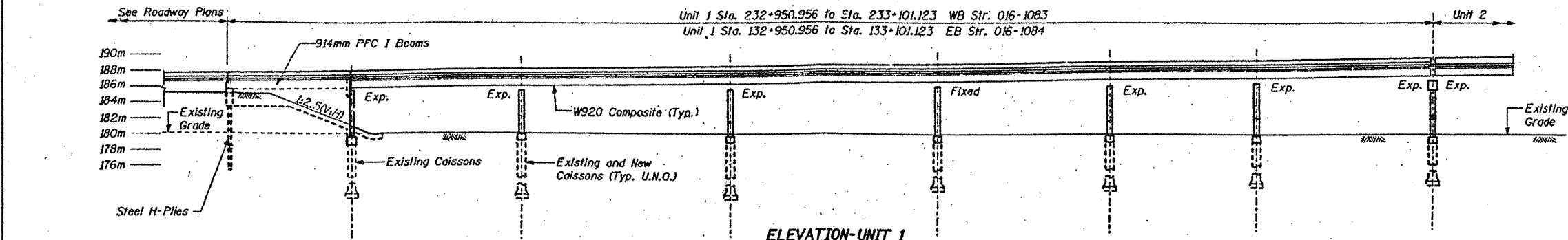


DRAINAGE SCUPPER DS-12

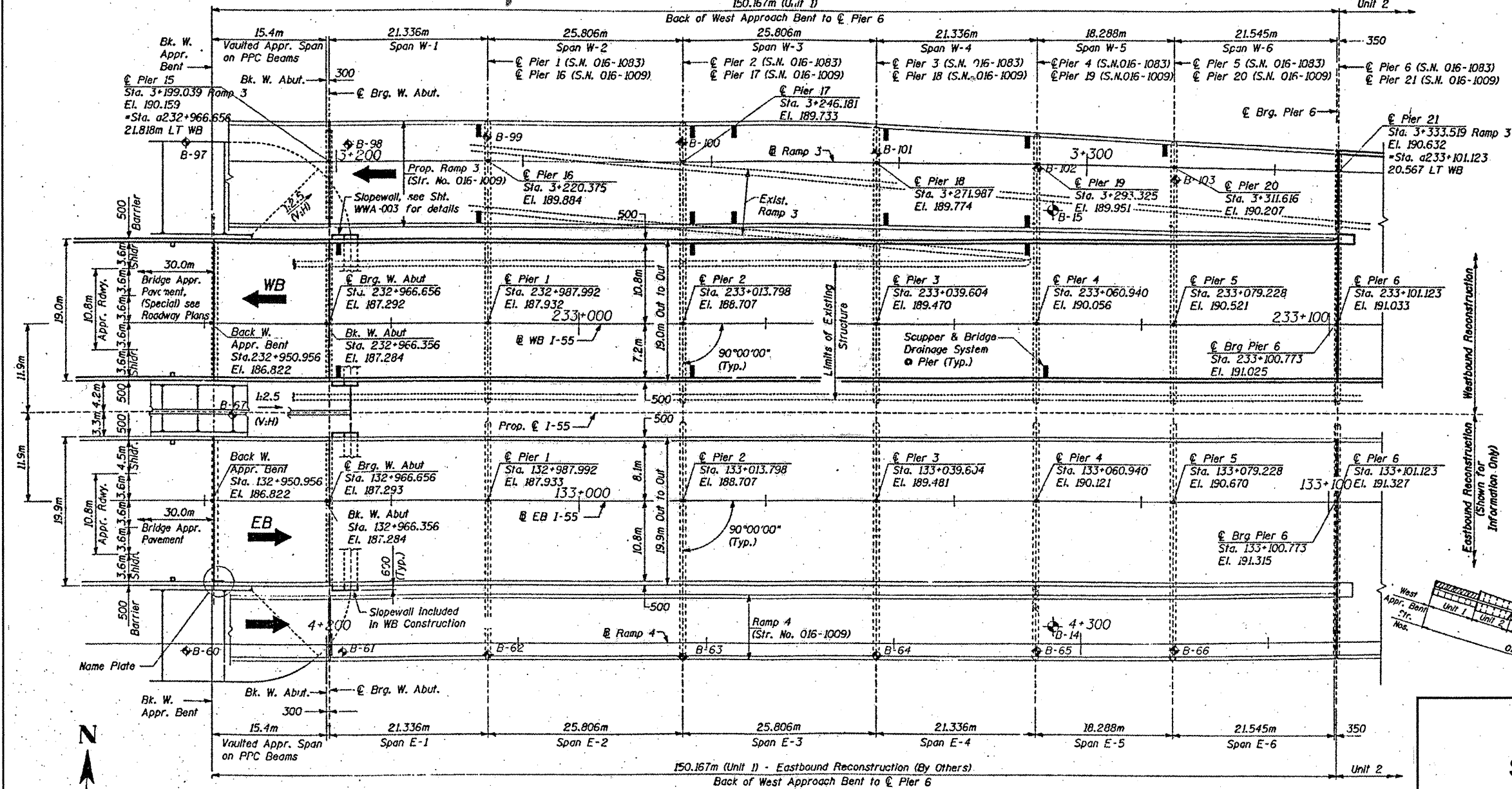


ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PLAN & ELEVATION
SN: 016-0588
SHEET 3 OF 3

ROUTE VARIOUS	SECTION 2011-060-BR	COUNTY COOK	TOTAL SHEETS 49	SHEET NUMBER 45
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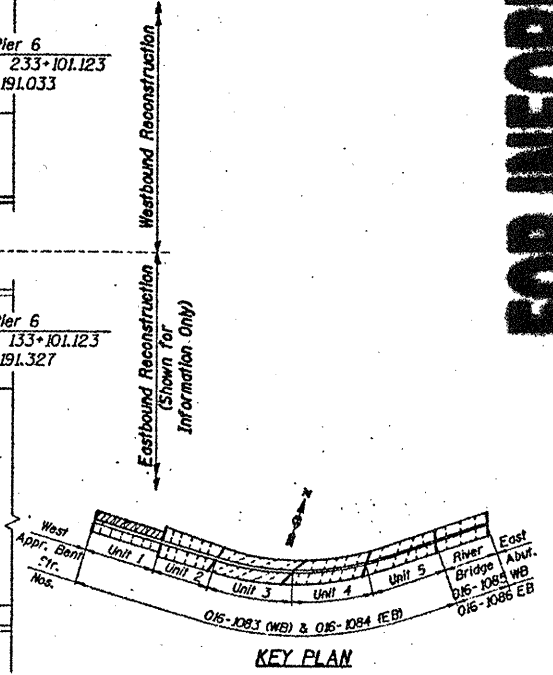


ELEVATION-UNIT 1



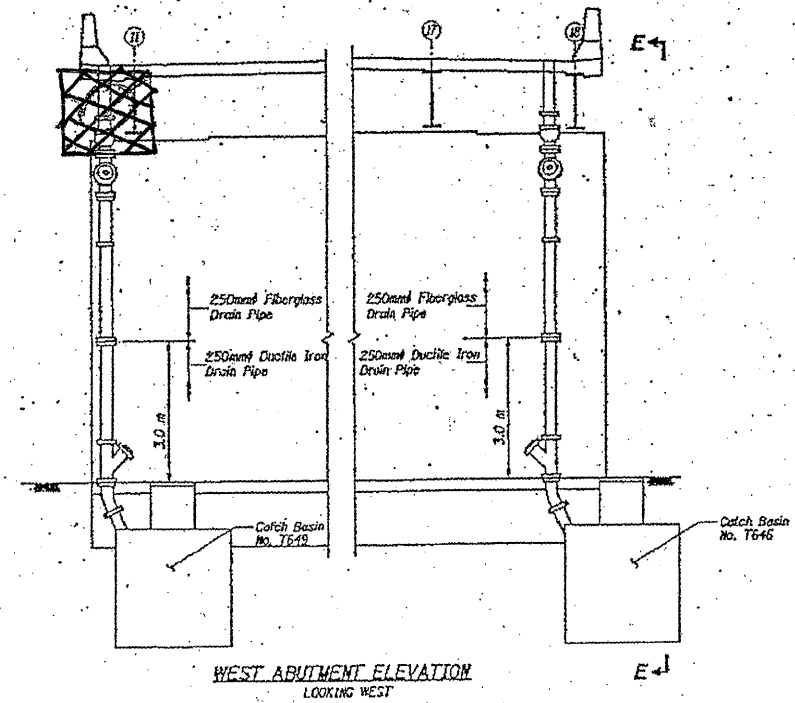
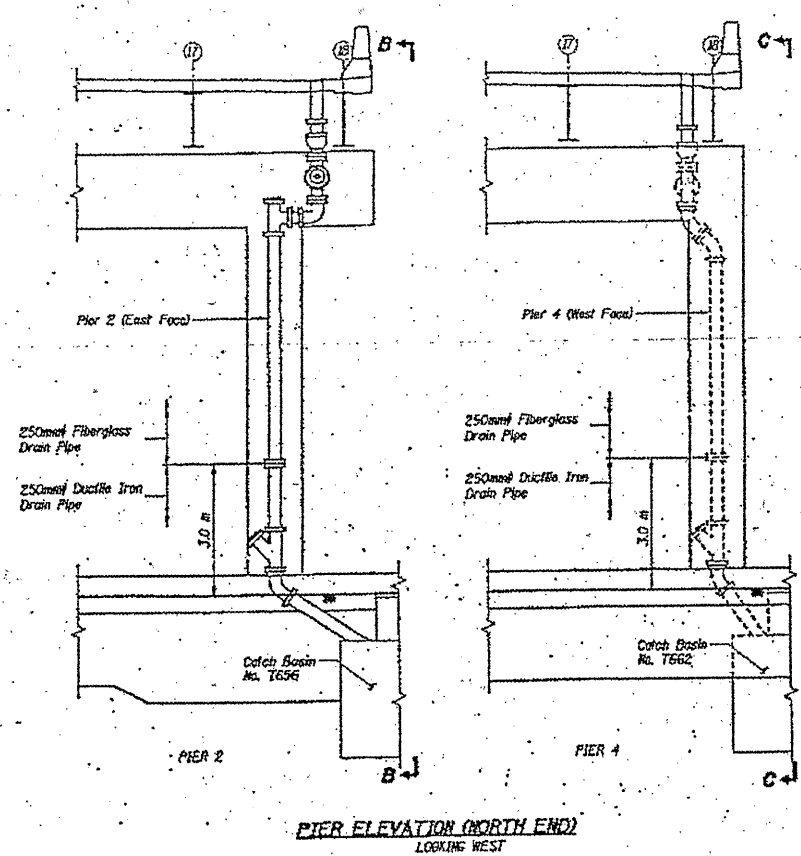
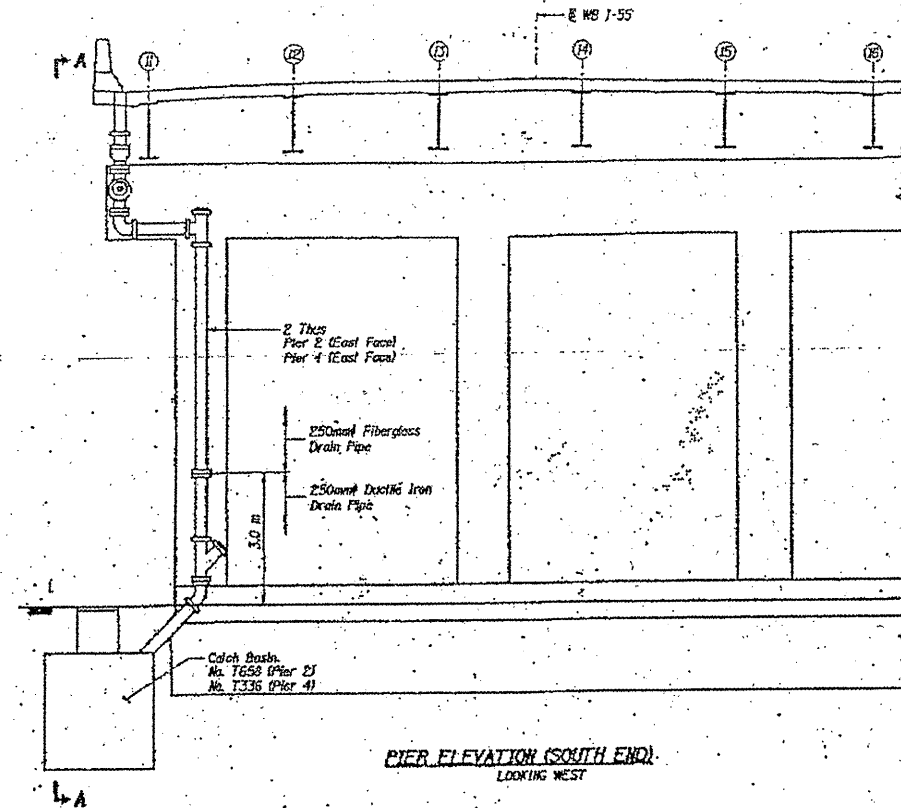
PLAN-UNIT 1

FOR INFORMATION ONLY



ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PLAN & ELEVATION
SN: 016-1083
SHEET 1 OF 2

ROUTE VARIOUS	SECTION 2011-060-BR	COUNTY COOK	TOTAL SHEETS 49	SHEET NUMBER 46
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 LOCATION OF BRIDGE DRAINAGE SYSTEM REPAIRS

TOTAL BILL OF MATERIALS

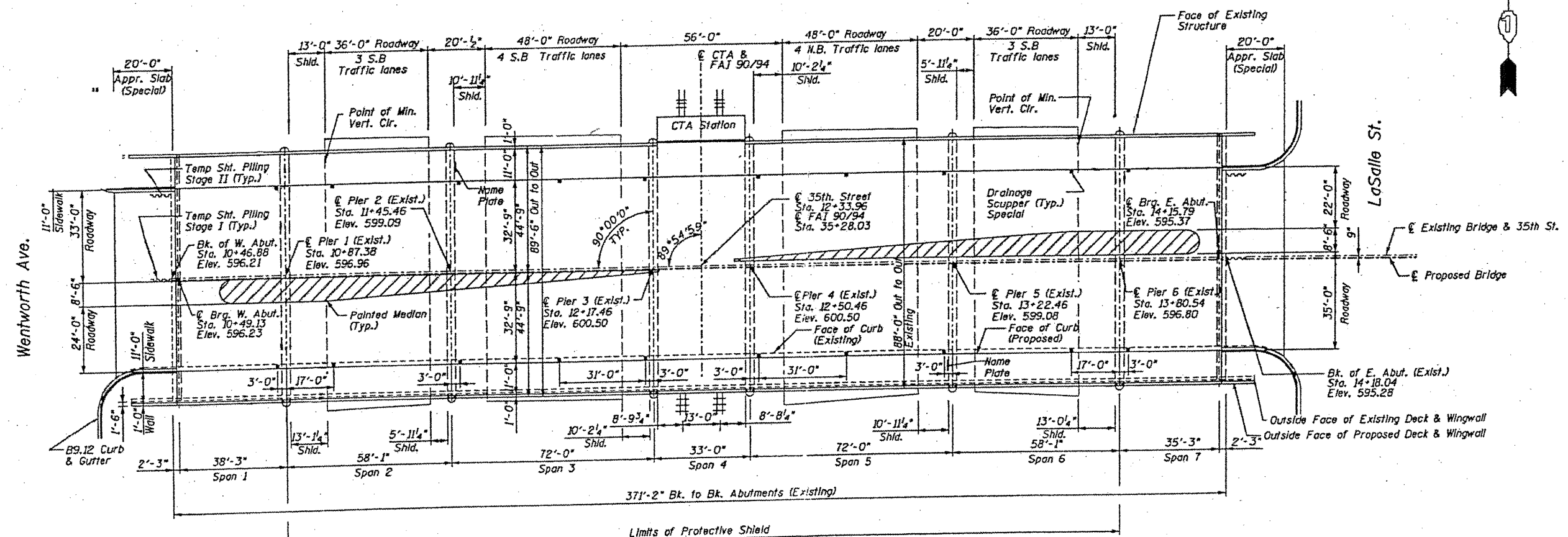
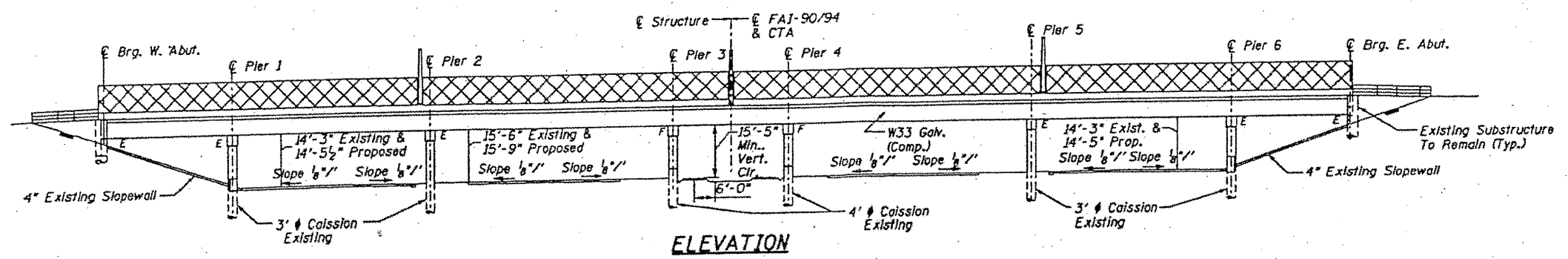
ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	4

NOTE:

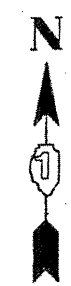
BRIDGE DRAINAGE SYSTEM REPAIRS SOUTH END OF WEST ABUTMENT (REPLACE DAMAGED SECTIONS)

ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
ELEVATIONS
SN: 016-1083
SHEET 2 OF 2

ROUTE VARIOUS	SECTION 2011-060-BR	COUNTY COOK	TOTAL SHEETS 49	SHEET NUMBER 47
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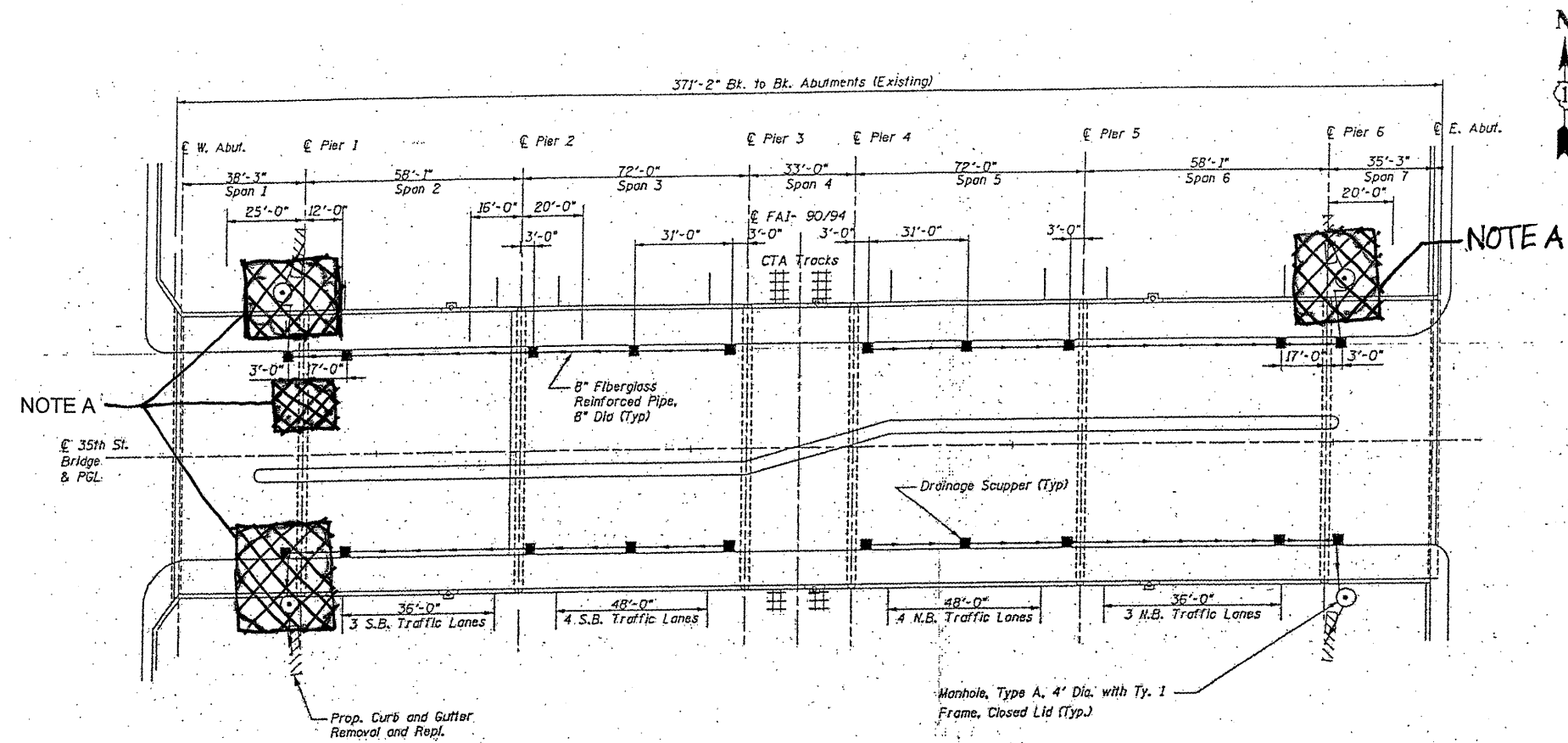
Note: Partial Protective Shield is currently in Place. Contractor shall adjust or maintain shielding to meet specifications, see general notes sheet S2.



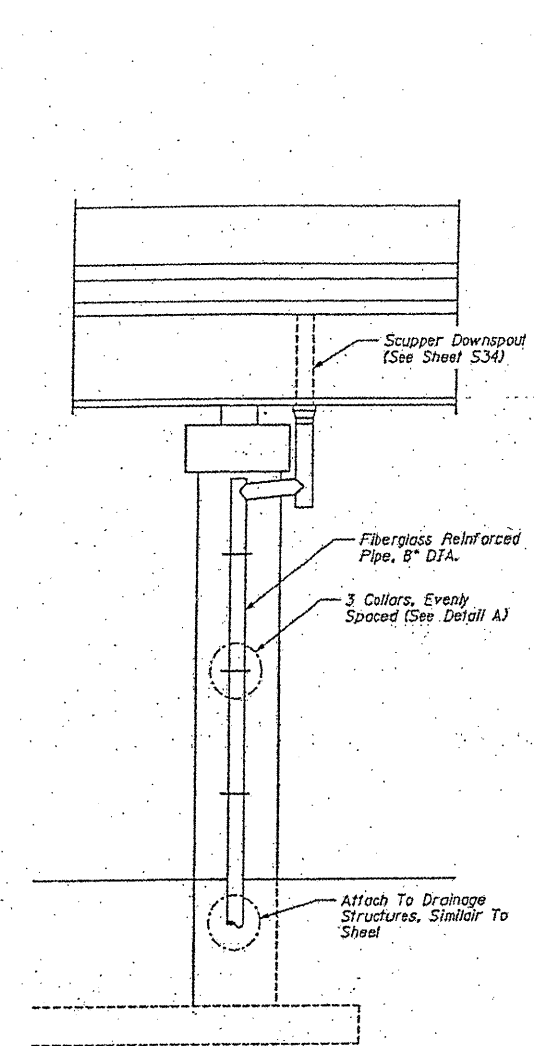
FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF
TRANSPORTATION
STRUCTURAL REPAIRS
PLAN & ELEVATION
SN: 016-1160
SHEET 1 OF 2

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-060-BR	COOK	49	48



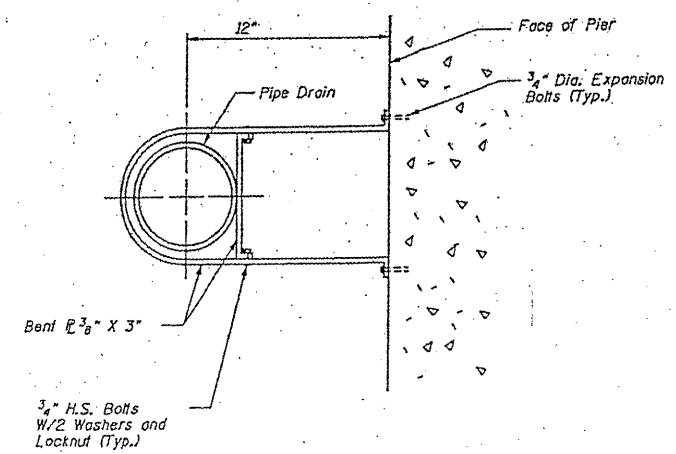
PLAN



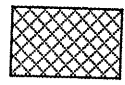
END VIEW
At Pier

TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	26



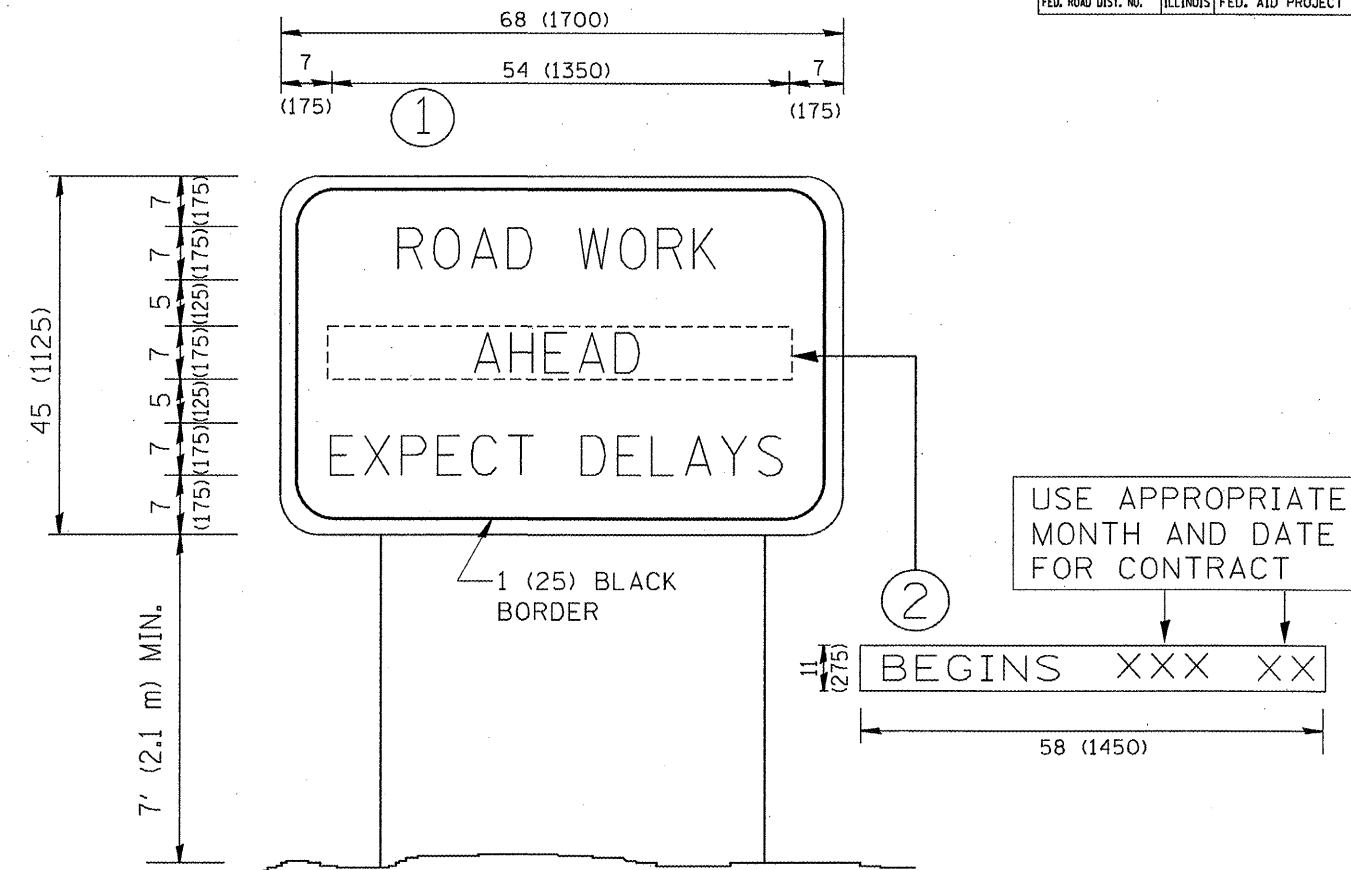
DETAIL A
Connection of Pier



NOTE A: REPLACE DAMAGED SECTIONS

ILLINOIS DEPARTMENT OF
 TRANSPORTATION
 STRUCTURAL REPAIRS
 PLAN & SECTIONS
 SN: 016-1160
 SHEET 2 OF 2

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR 2011-060-BA	Cook		49	49
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

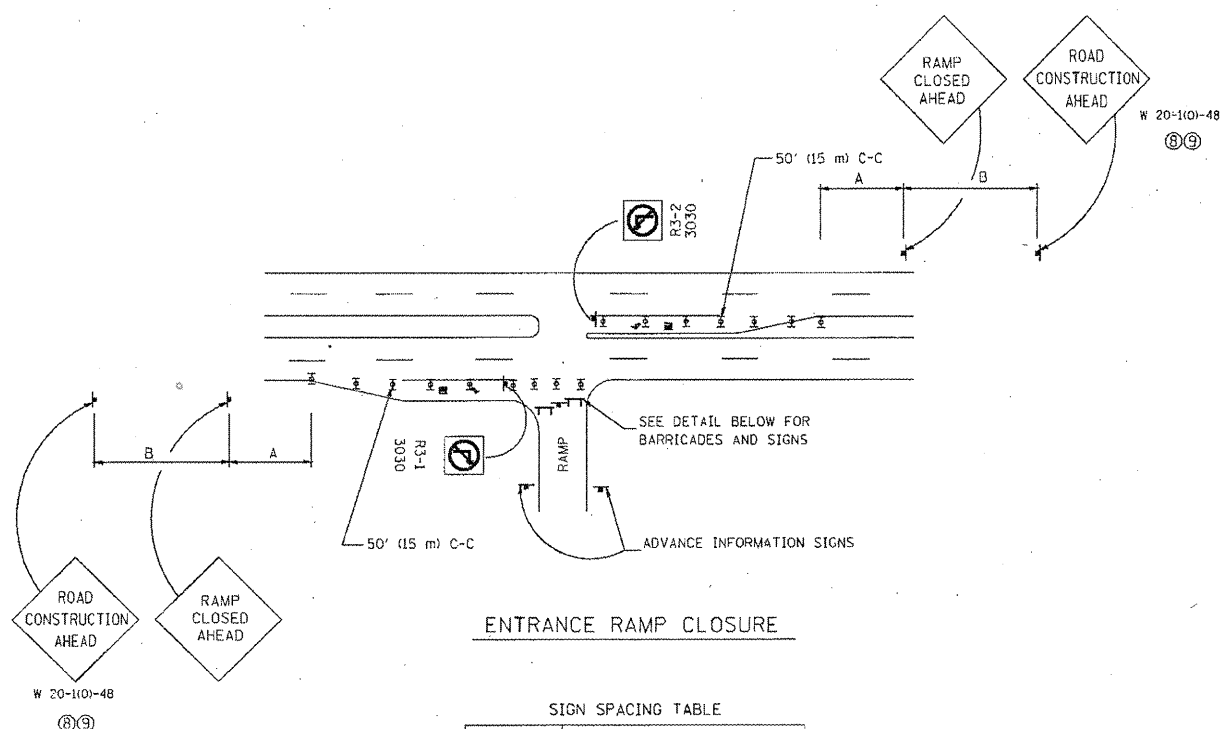
REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99
C. JUCIUS	1-31-07

ILLINOIS DEPARTMENT OF TRANSPORTATION
**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE
DRAWN BY DESIGN
CHECKED BY
TC22

PLOT DATE = 2/6/2007
PLOT SCALE = 1/8" = 1'-0"
USER NAME = bboard

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR *		COOK	48	43A
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
RS-1-4848 *2011-060-8R				

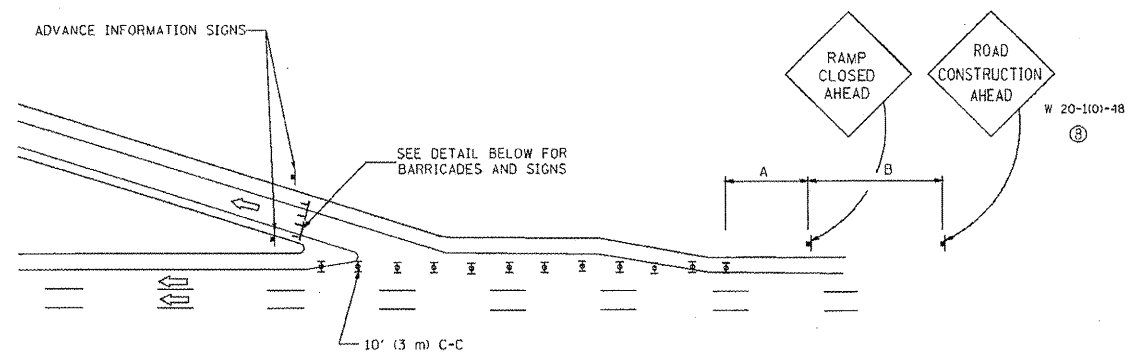


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

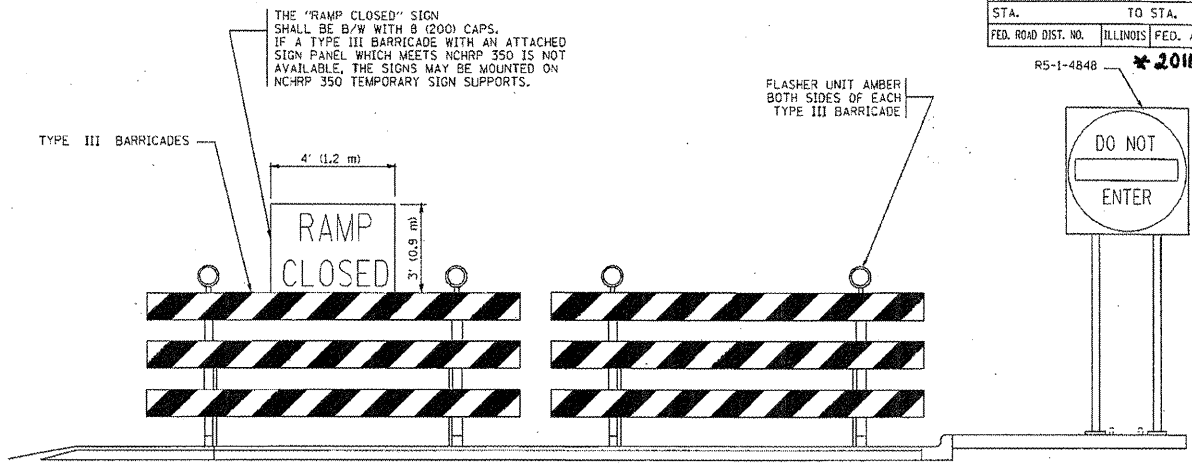
FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL ≥45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	150' (45 m)	150' (45 m)

DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

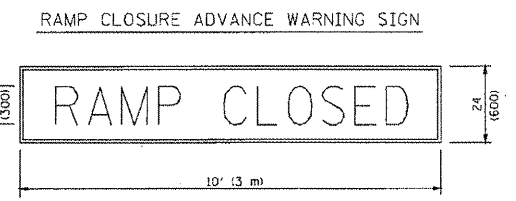


EXIT RAMP CLOSURE

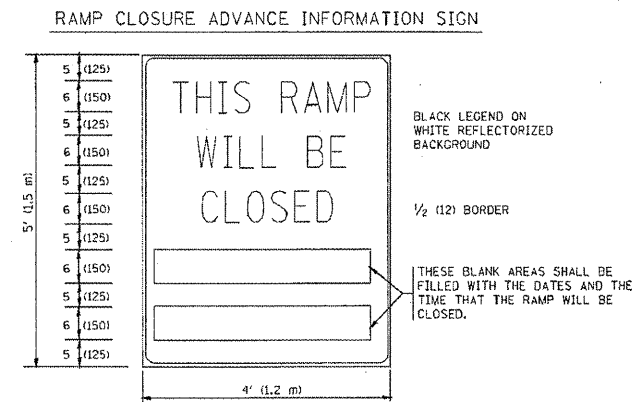
- SYMBOLS**
- Ⓜ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
 - Ⓣ TYPE III BARRICADE WITH FLASHING LIGHT



DETAIL FOR REQUIRED BARRICADES & SIGNS



BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND
1 (25) BORDER
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DBLMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY-FOUR (24) HOURS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED ON CLOSURES LESS THAN 24 HOURS IN DURATION.

REVISIONS

NAME	DATE
DWS	2-83
DWS	1-90
DWS	9-94
DWS	12-94
DWS/JAF	12-02
JAF	2-06
SPB	1-07
SPB	12-09
Revise devices to meet NCHRP 350	4-03

ILLINOIS DEPARTMENT OF TRANSPORTATION
FREEWAY
ENTRANCE AND EXIT RAMP
CLOSURE DETAILS

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

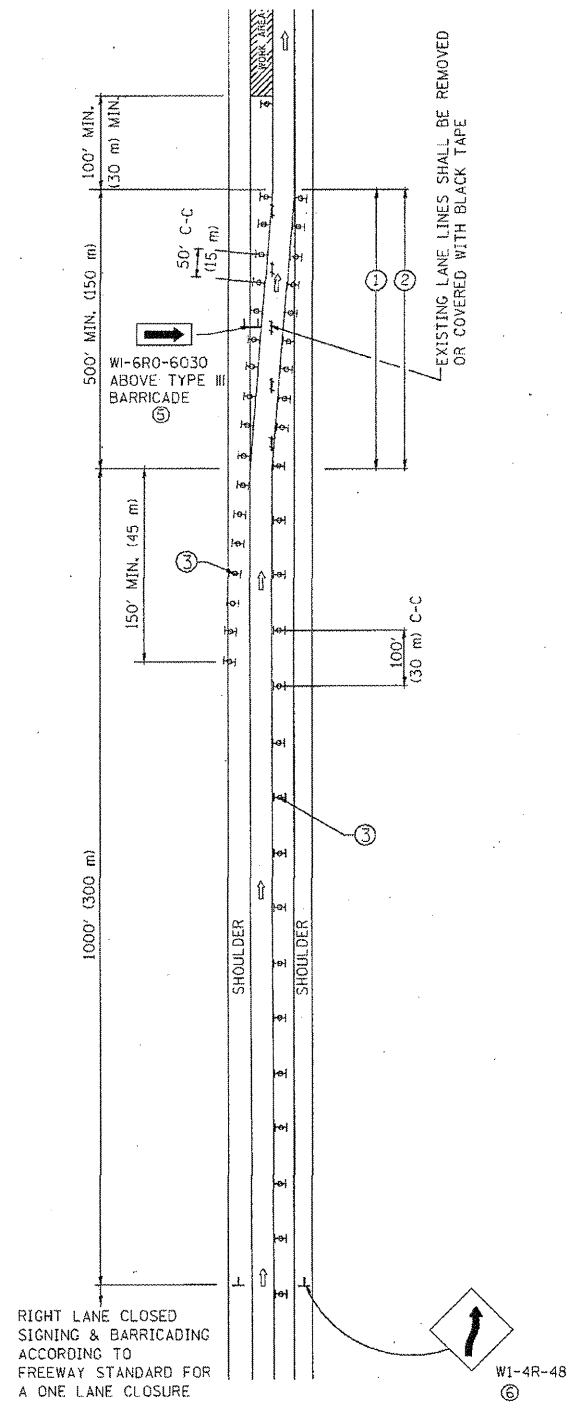
SCALE: NONE
DRAWN BY
CHECKED BY
TC-8

PLT DATE: 1/26/2010
FILE NAME: C:\pwworkspace\11554\11554\11554.dwg
PLT SCALE: 0.0000 / 1.0000
USER: jay

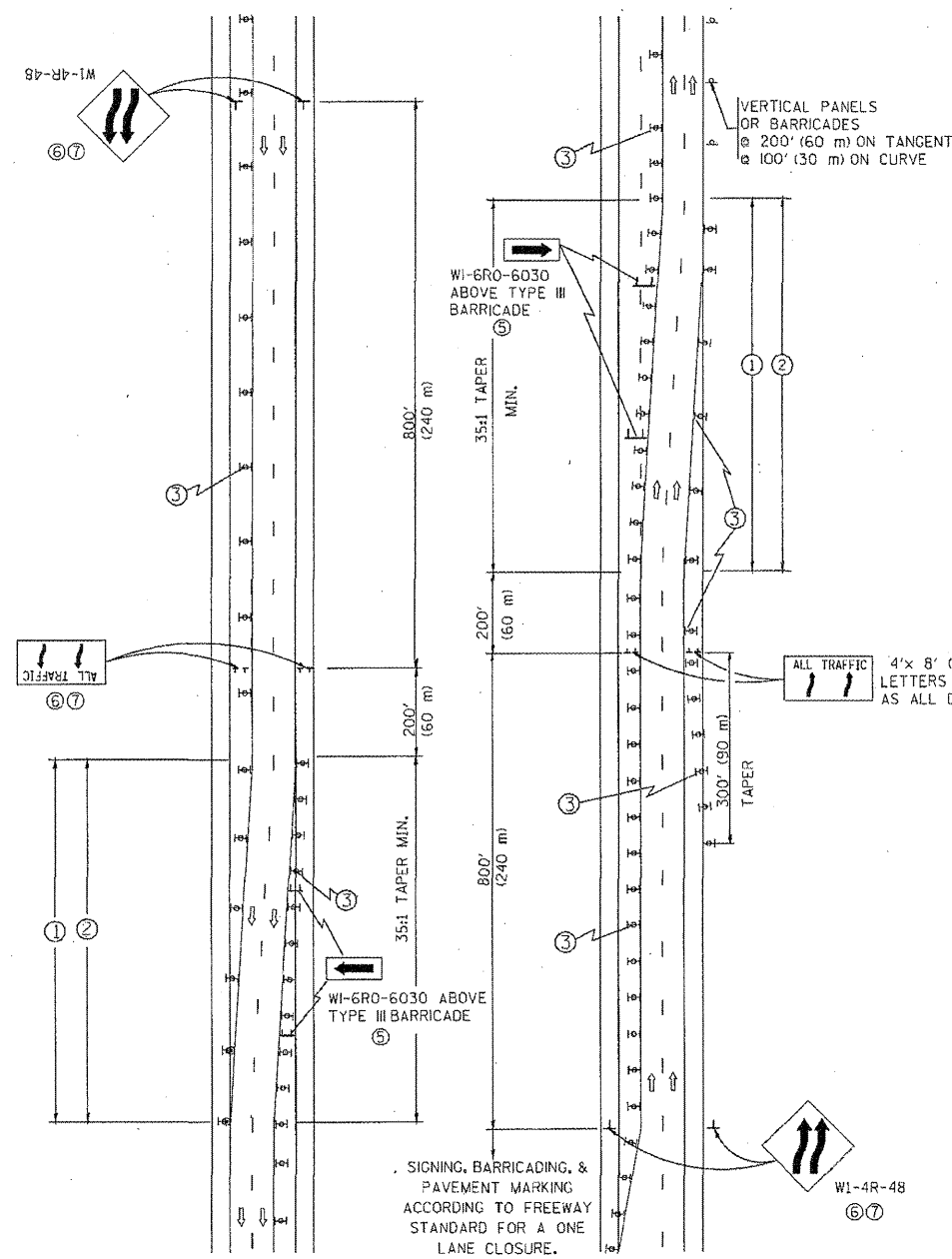
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74R	*	COOK	49	49B
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

* 2011-060-BR

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 24 HOURS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS. TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

ALL TRAFFIC 4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
DWS	2/87
DWS	1/90
DWS	12/27/94
DWS	11/96
JAF	4/03
JAF	2/06
SPB	1/07
SPB	12/09

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL DETAILS
FOR FREEWAY
SINGLE & MULTI-LANE WEAVE

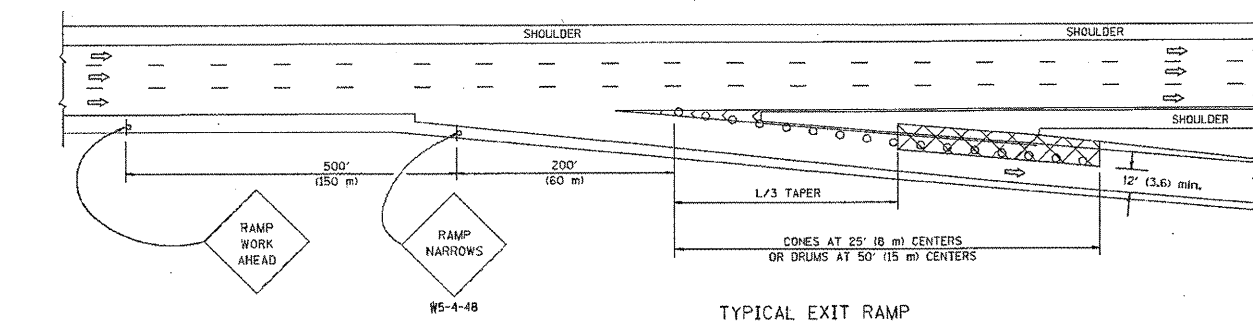
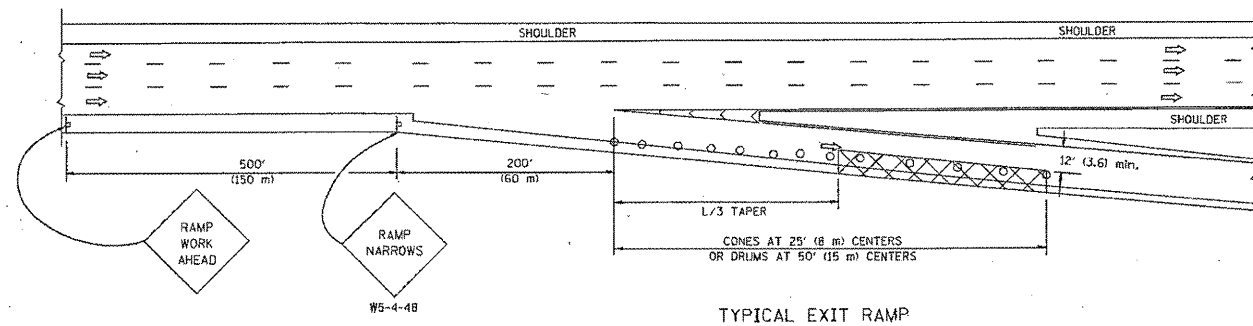
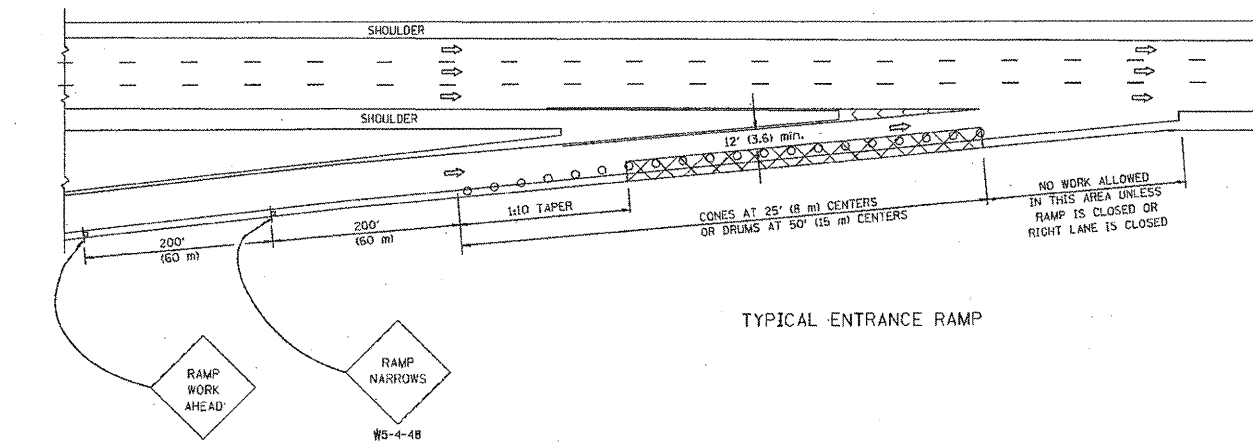
SCALE: NONE

DRAWN BY R.J.H.
CHECKED BY
TC-9

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
YAR	*	Cook	49	49c
STA.	TO STA.			
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

* 2011-060-6R

PARTIAL RAMP CLOSURE DETAILS



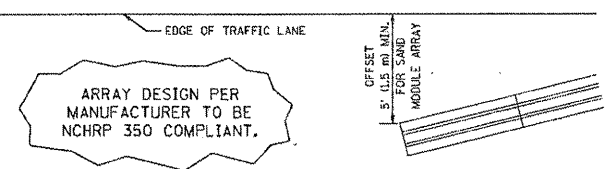
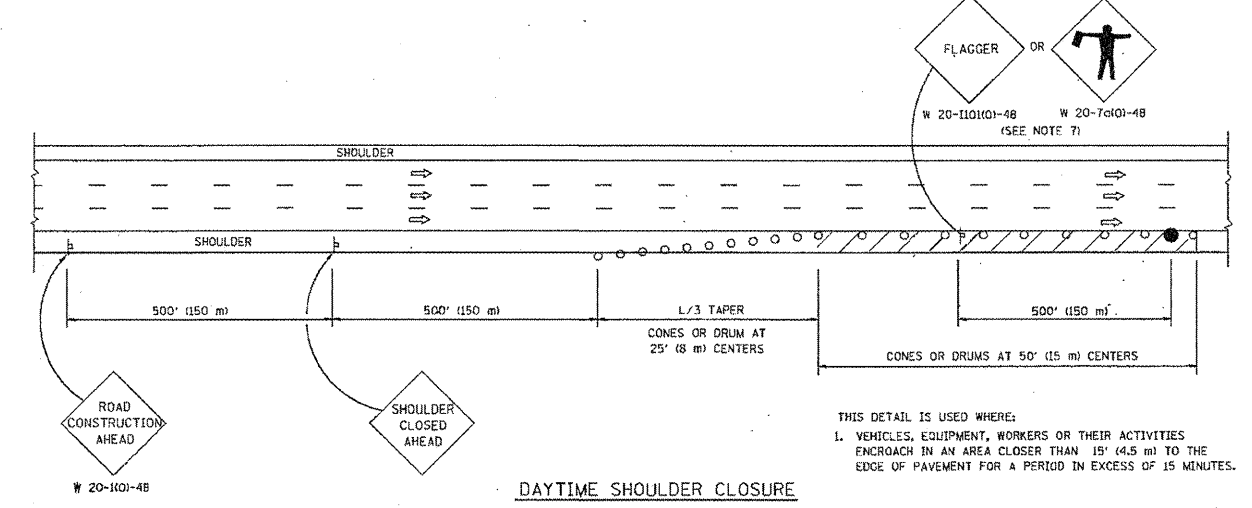
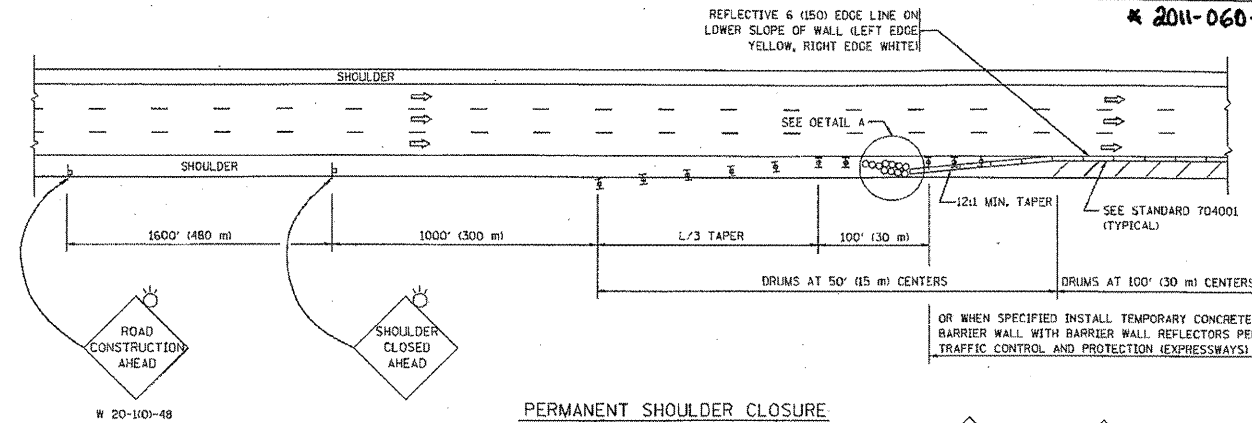
SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

1. THE "L" DISTANCE EQUALS:
 SPEED LIMIT FORMULAS
 45 mph (80 km/h) METRIC ENGLISH
 OR GREATER: L=(0.5/W)(S) L=(W)(S)
 W = WIDTH OF OFFSET IN FEET (METERS)
 S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS



THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRUSH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
DWS	11/96
JAF	12/02
NCHRP 350	04/03
JAF	2/08
SPB	1/07
SPB	12/09

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC CONTROL DETAILS
 FOR FREEWAY
 SHOULDER CLOSURES
 PARTIAL RAMP CLOSURES
 DESIGNED BY: DWS
 DRAWN BY:
 CHECKED BY:
 SCALE: NONE

PLOT DATE = 1/26/2009
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 PLOT SCALE = 1/8"=1'-0"
 USER NAME = jaf