

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE. VAR	SECTION 2017-047BP	COUNTY ILLINOIS	TOTAL SHEETS 29	SHEET NO. 1
			CONTRACT NO. 62F79	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENTS ARE LOCATED IN THE VILLAGES OF ELMHURST, WOOD DALE, OAKBROOK, WESTCHESTER, AND LAGRANGE PARK.

**PROPOSED
HIGHWAY PLANS**

VARIOUS ROUTES
VARIOUS LOCATIONS
SECTION: 2017-047 BP
PROJECT: STP-NHPP-5U6N (186)
BRIDGE PAINTING
COOK & DUPAGE COUNTIES
C-91-050-18

TRAFFIC DATA:

IL-38 AT SALT CREEK
2016 ADT = 49,500
SPEED = 55MPH

CN RR AT US 12,20,45
2015 ADT = 38,700
SPEED = 30MPH

31st ST AT SALT CREEK
2014 ADT = 20,000
SPEED = 45MPH

LOCATION 5
SN 022-0149
EMROY AVE. AT I-290

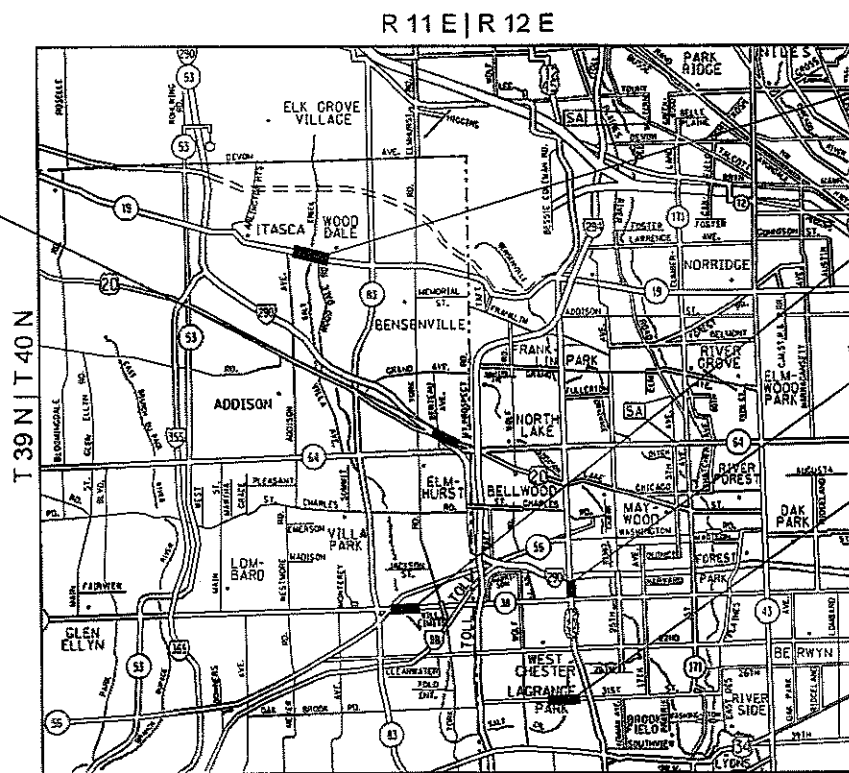
TRAFFIC DATA:
I-290 (EISENHOWER)
2016 ADT = 153,100
SPEED = 55MPH

IL-19 AT SALT CREEK
2016 ADT = 18,500
SPEED = 30MPH

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

PROJECT ENGINEER: J. ALAIN MIDY (847) 221-3056
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62F79



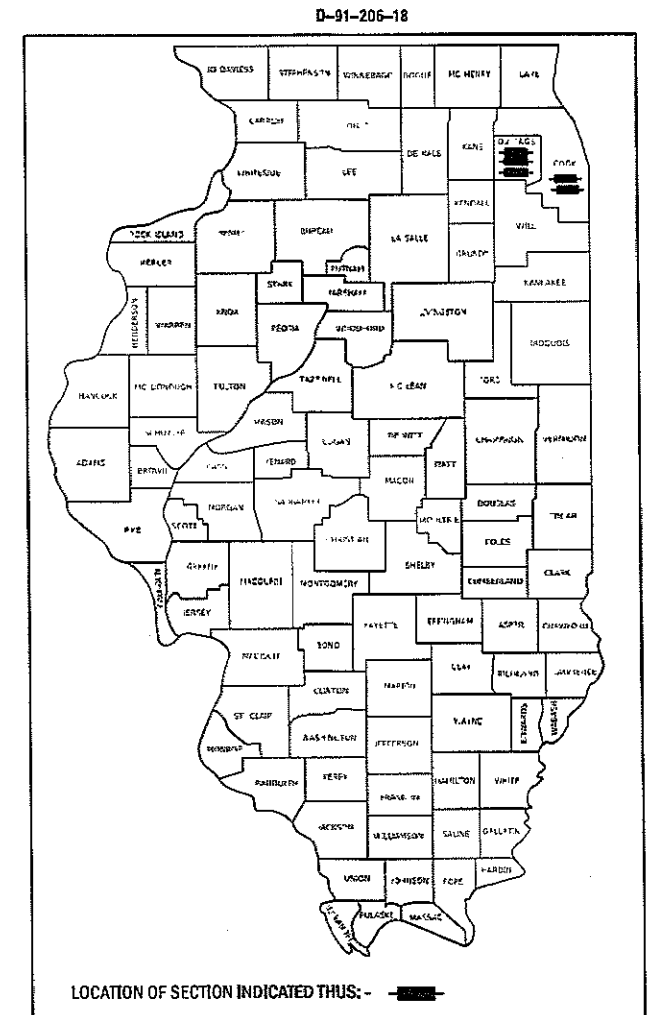
ADDISON, ELMHURST, HINSDALE, AND YORK TOWNSHIPS

LOCATION 4
SN 022-0147
IL 19 AT SALT CREEK

LOCATION 3
SN 022-0026
IL 38 AT SALT CREEK

LOCATION 2
SN 016-2024
CN RR AT US 12,20,45

LOCATION 1
SN 016-0868
31st ST AT SALT CREEK



LOCATION OF SECTION INDICATED THUS: - [shaded area]

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED *Over 62F79* 20 17
Anthony J. Drizgic / AAS REGIONAL ENGINEER
NOV 30 20 17
Marcus M. Addis, PE ENGINEER OF DESIGN AND ENVIRONMENT
NOV 30 20 17
James A. [Signature] DIRECTOR OF PROGRAM DEVELOPMENT

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OF THE STATE OF ILLINOIS

URBAN

URBAN

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0047 BRIDGE 1 016-0868 80% STP 20% STATE	0047 BRIDGE 2 016-2024 80% NHPP 20% STATE	0047 BRIDGE 3 022-0026 80% NHPP 20% STATE	0047 BRIDGE 4 022-0147 80% STP 20% STATE	0047 BRIDGE 5 022-0149 80% STP 20% STATE
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	2	2	2	2	2
67100100	MOBILIZATION	LSUM	1	0.2	0.2	0.2	0.2	0.2
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	LSUM	1	0.5	0.5			
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	1		0.5	0.5		
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	LSUM	1	0.5			0.5	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1		1			
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	0.25	0.25	0.25	0.25	
70200100	NIGHTTIME WORK ZONE LIGHTING	LSUM	1	0.2	0.2	0.2	0.2	0.2
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	LSUM	1					1
Z0007112	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES	LSUM	1		0.33	0.33	0.34	
Z0007114	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES	LSUM	1	0.5				0.5

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0047 BRIDGE 1 016-0868 80% STP 20% STATE	0047 BRIDGE 2 016-2024 80% NHPP 20% STATE	0047 BRIDGE 3 022-0026 80% NHPP 20% STATE	0047 BRIDGE 4 022-0147 80% STP 20% STATE	0047 BRIDGE 5 022-0149 80% STP 20% STATE
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	LSUM	1	1				
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	LSUM	1		1			
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	LSUM	1			1		
Z0010504	CLEANING AND PAINTING STEEL BRIDGE NO. 4	LSUM	1				1	
Z0010505	CLEANING AND PAINTING STEEL BRIDGE NO. 5	LSUM	1					1
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	102.8	25.7	25.7	25.7	25.7	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1		1			
02007600	TRAINEES	HOURL	500	500				
02007604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURL	500	500				

11

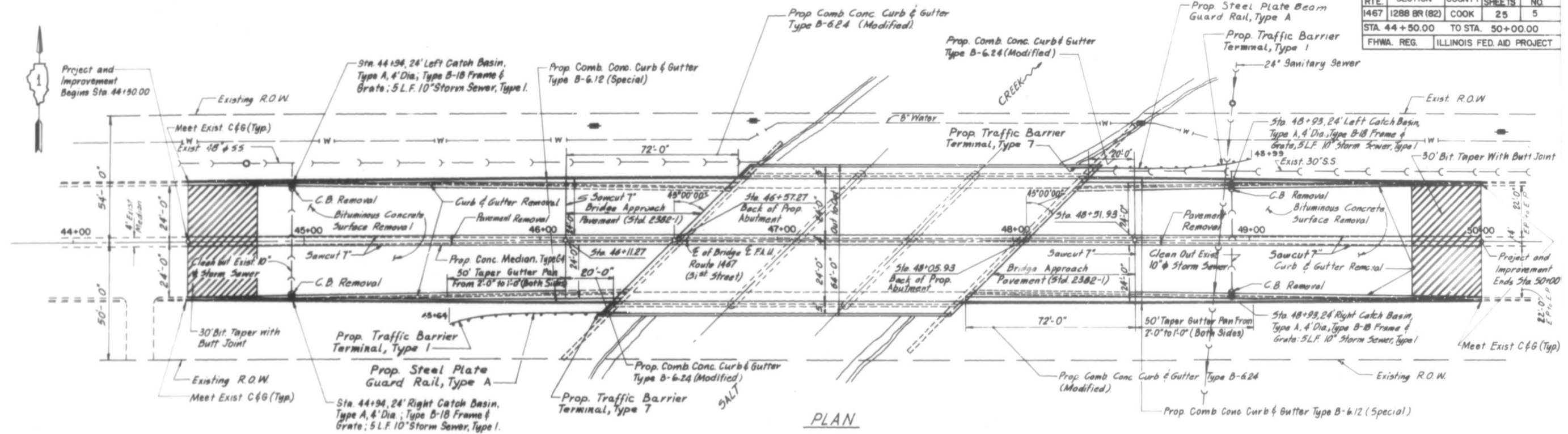
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0042

REV

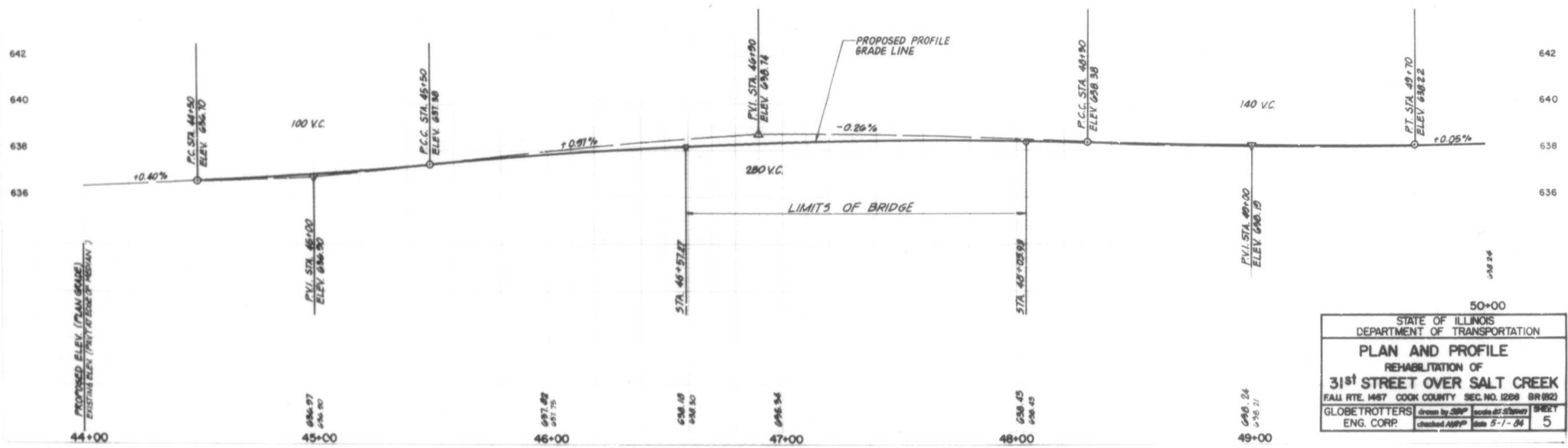
FOR INFORMATION ONLY

EAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	1288 BR (82)	COOK	25	5
STA. 44+50.00		TO STA. 50+00.00		
FHWA. REG.		ILLINOIS FED. AID PROJECT		



PLAN

Scale: Horizontal: 1" = 20'-0"
Vertical: 1" = 2'-0"



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			
PLAN AND PROFILE			
REHABILITATION OF 31ST STREET OVER SALT CREEK			
FALL RTE. 1467 COOK COUNTY SEC. NO. 1288 BR (82)			
GLOBETROTTERS ENG. CORP.	drawn by: <i>SRP</i> checked: <i>ABPP</i>	scale: <i>AS SHOWN</i> date: <i>5-1-14</i>	SHEET 5

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USER NAME = saintvlch	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/19/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 1 (SN 016-0868)
PLAN AND PROFILE ELEVATION**

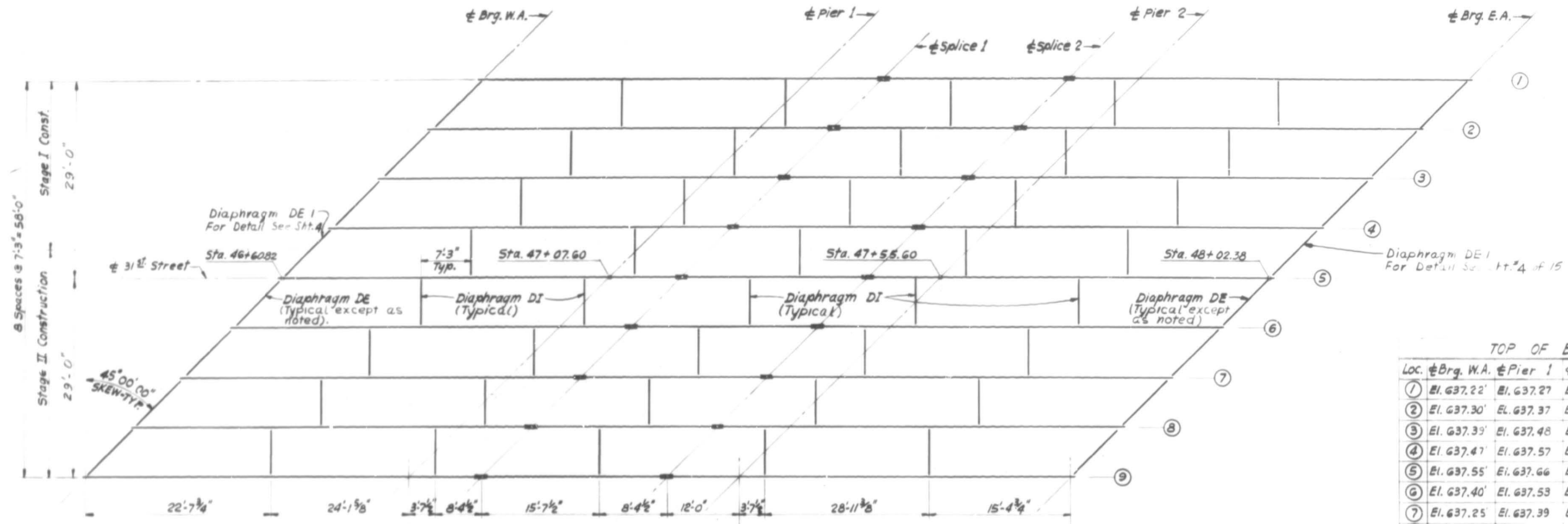
SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2017-047BP	VARIOUS	29	4
			CONTRACT NO. 62F79	
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY

SHEET 8 OF 15

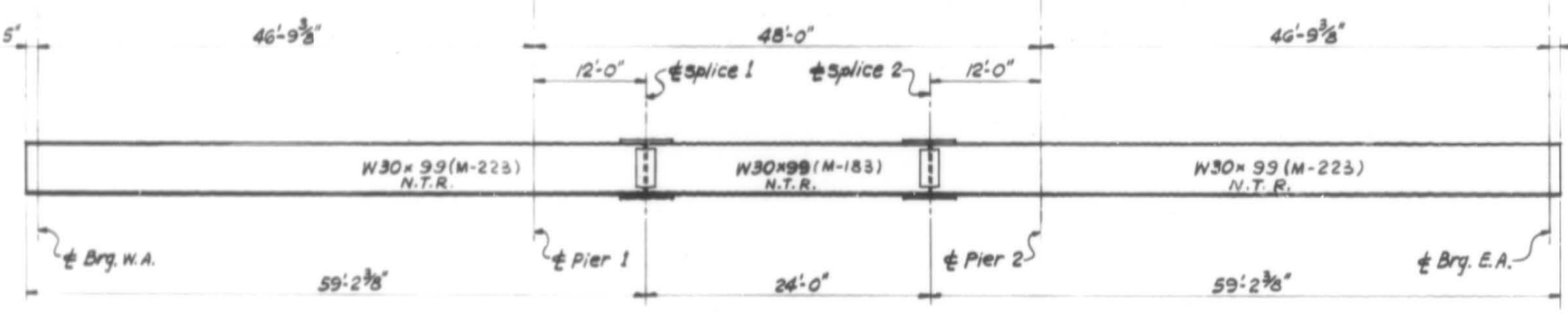
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	1288 BR(82)	COOK	25	16
STA.		TO STA.		
FHWA REG.		ILLINOIS FED. AID PROJECT		



TOP OF BEAM ELEVATIONS

Loc.	Brig. W.A.	Pier 1	Splice 1	Splice 2	Pier 2	Brig. E.A.
1	El. 637.22'	El. 637.27'	El. 637.29'	El. 637.30'	El. 637.29'	El. 637.27'
2	El. 637.30'	El. 637.37'	El. 637.39'	El. 637.41'	El. 637.41'	El. 637.41'
3	El. 637.39'	El. 637.48'	El. 637.50'	El. 637.52'	El. 637.52'	El. 637.54'
4	El. 637.47'	El. 637.57'	El. 637.60'	El. 637.63'	El. 637.64'	El. 637.66'
5	El. 637.55'	El. 637.66'	El. 637.69'	El. 637.73'	El. 637.75'	El. 637.79'
6	El. 637.40'	El. 637.53'	El. 637.56'	El. 637.61'	El. 637.63'	El. 637.68'
7	El. 637.25'	El. 637.39'	El. 637.43'	El. 637.49'	El. 637.51'	El. 637.58'
8	El. 637.12'	El. 637.26'	El. 637.30'	El. 637.36'	El. 637.38'	El. 637.47'
9	El. 637.01'	El. 637.13'	El. 637.16'	El. 637.23'	El. 637.26'	El. 637.36'

FRAMING PLAN



BEAM ELEVATION
N.T.R. indicate Notch Toughness Requirement.

INTERIOR GIRDER REACTION TABLE

	ABUTMENTS	PIERS
R _g (K)	22.91	62.99
R _h (K)	40.68	49.31
R _{imp} (K)	11.76	11.14
R _{TOTAL} (K)	75.35	123.44

INTERIOR BEAM MOMENT TABLE

	0.4 Sp 1 or 2	Pier 1 or 2	0.5 Sp 2
I (in ⁴)	3990.0	3990.0	3990.0
I _g (in ⁴)	1.33	1.33	1.33
M _g (K)	197	-255	73
M _h (K)	295	-212	245
Imp (K)	85	-62	71
M _{TOTAL} (K)	577	-529	389
f _s (KSI)	25.81	23.6	17.33

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN
REHABILITATION OF
31ST STREET OVER SALT CREEK

FALL RTE. 1467 COOK COUNTY SEC. NO. 1288 BR(82)

GLOBETROTTERS drawn by EK checked by MAA date 5-1-84 SHEET
ENG. CORP. checked 4/9/84 date 5-1-84 16

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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/19/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

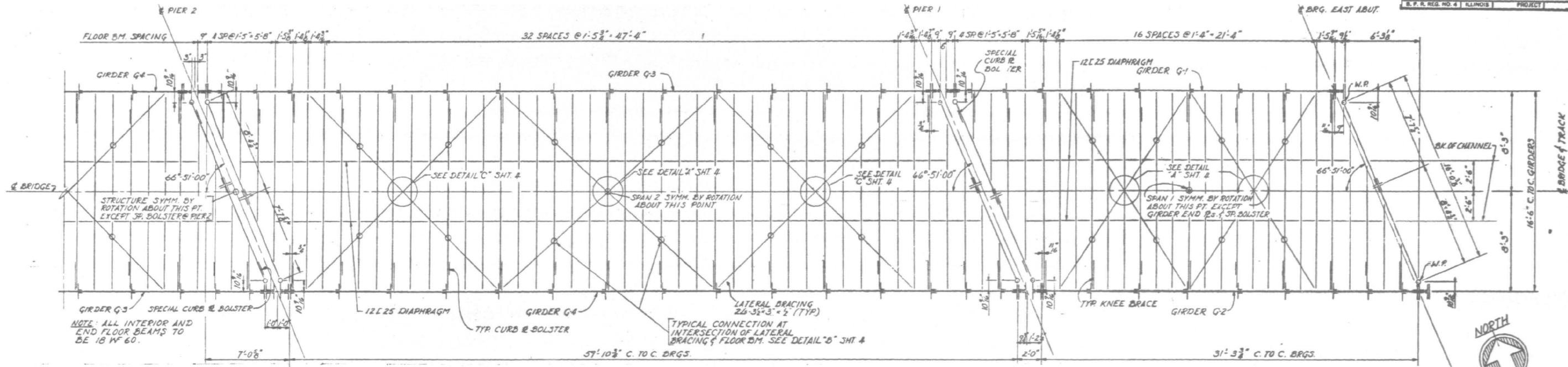
LOCATION 1 (SN 016-0868)
STRUCTURAL STEEL FRAMING PLAN

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2017-047BP	VARIOUS	29	5
			CONTRACT NO. 62F79	
		ILLINOIS FED. AID PROJECT		

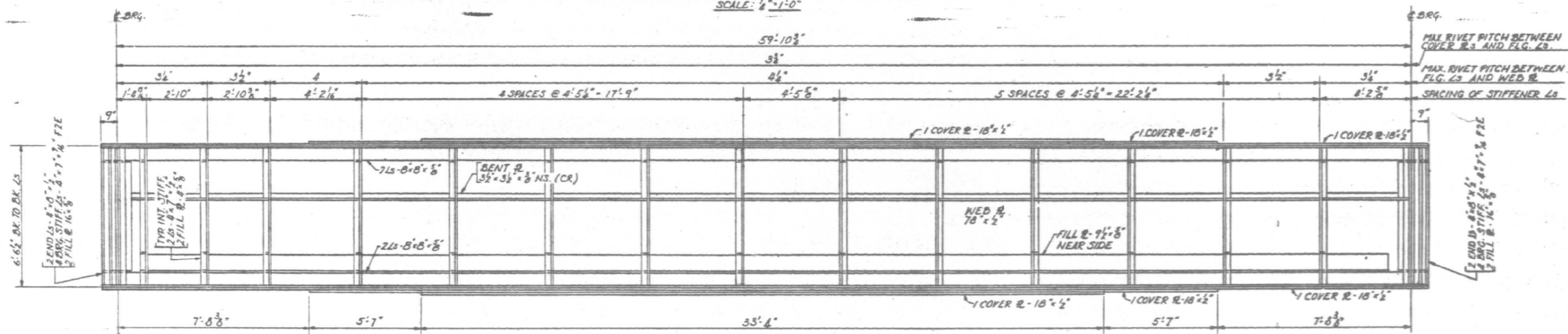
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 45	464-5B	COOK	51	10
STA.	TO STA.		PROJECT	
I.L.R. REG. NO. 4 ILLINOIS				



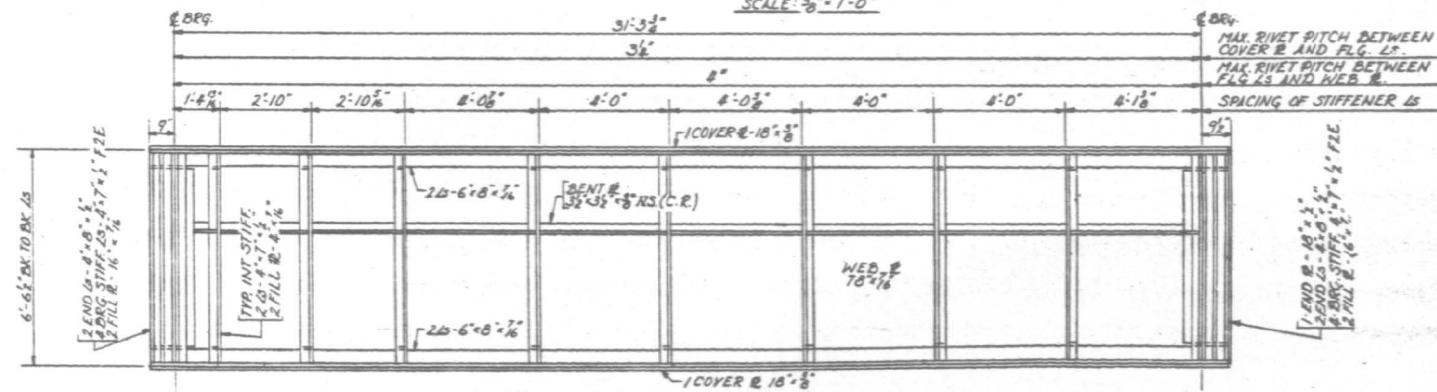
FRAMING PLAN - SPANS 1 & 2

SPANS 3 & 4 SYMMETRICAL BY ROTATION THRU 180°
SCALE: 1/8" = 1'-0"



INSIDE ELEVATION OF GIRDER G-3 OR G-4

SCALE: 3/8" = 1'-0"



INSIDE ELEVATION OF GIRDER G-1 (G-2 SIMILAR)

SCALE: 3/8" = 1'-0"

—PROJECT— SECTION **464-5B**
 —COOK COUNTY—
3-DP 21
 —ILLINOIS CENTRAL RAILROAD—
 —BR. W16-1 F.A. RTE. 45 (S.B.I. RTE. 45-MANNHEIM ROAD)—
 —WESTCHESTER, ILLINOIS—
—STEEL FRAMING PLAN—
 —SCALE: AS NOTED— DATE: 11-16-64—

ALFRED BENESCH & COMPANY
 CONSULTING ENGINEERS
 204 WARRIOR AVE. CHICAGO, ILLINOIS
 ENGINEER OF BRIDGES
 DRAWING No. 38125 FILE No. 249-5

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DRAWN -	REVISED -	
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PLOT DATE = 10/19/2017	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

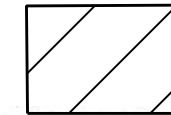
LOCATION 2 (SN 016-2024)
 STRUCTURAL STEEL FRAMING PLAN

SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

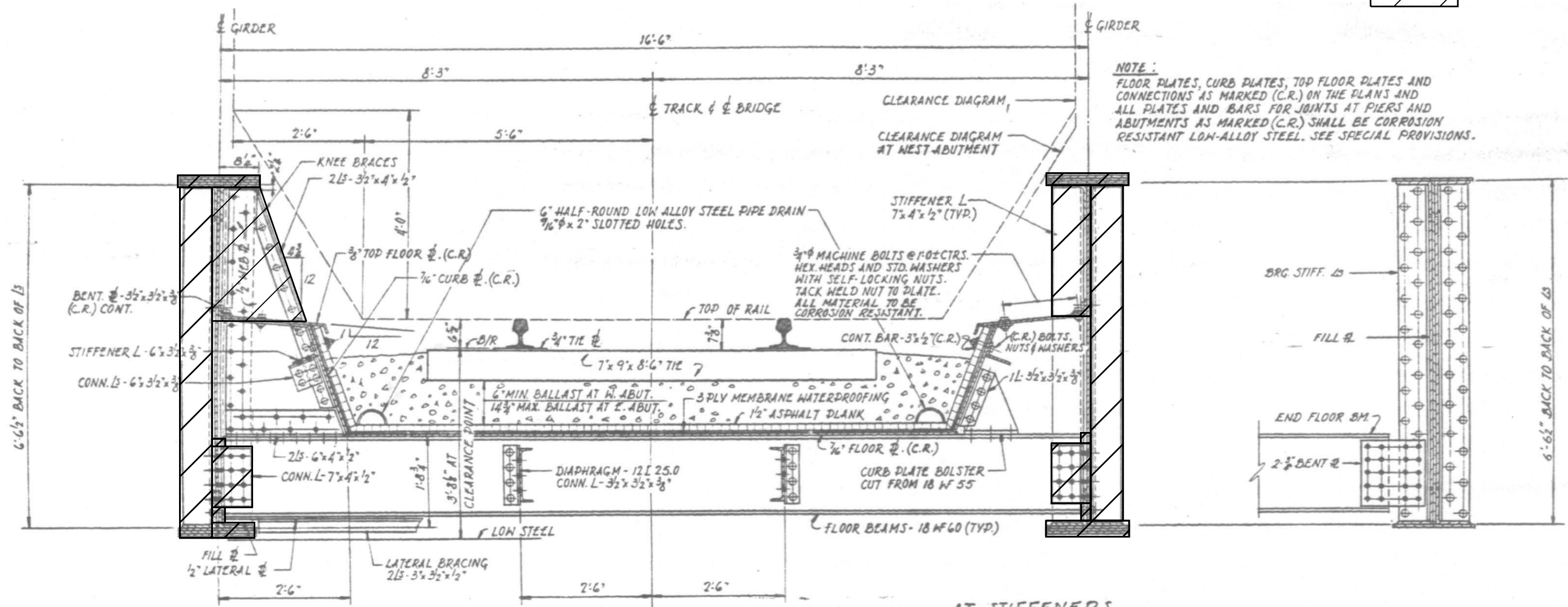
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2017-047BP	VARIOUS	29	8
CONTRACT NO. 62F79				
ILLINOIS FED. AID PROJECT				

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LEGEND



AREA TO BE PAINTED



NOTE:
FLOOR PLATES, CURB PLATES, TOP FLOOR PLATES AND CONNECTIONS AS MARKED (C.R.) ON THE PLANS AND ALL PLATES AND BARS FOR JOINTS AT PIERS AND ABUTMENTS AS MARKED (C.R.) SHALL BE CORROSION RESISTANT LOW-ALLOY STEEL. SEE SPECIAL PROVISIONS.

AT KNEE BRACES

AT STIFFENERS
BETWEEN KNEE BRACES

AT BRG STIFFENER

TYPICAL DECK CROSS SECTION

SCALE: 5/8" = 1'-0"

—PROJECT — SECTION 464-5B
 —COOK COUNTY—
 5 OF 21
 —ILLINOIS CENTRAL RAILROAD—
 —BRW16-1, F.A. RTE. 45 (S.B.I. RTE. 46-MANNHEIM ROAD)—
 —WESTCHESTER, ILLINOIS—
 —DECK SECTION & DETAILS—
 —SCALE: AS NOTED DATE: 11-16-64

ALFRED BENECH & COMPANY
 CONSULTING ENGINEERS
 10 S. WABASH AVE. CHICAGO, ILLINOIS
 ENGINEER OF BRIDGES
 DRAWING No. 38125 FILE No. 249-3

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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/19/2017	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

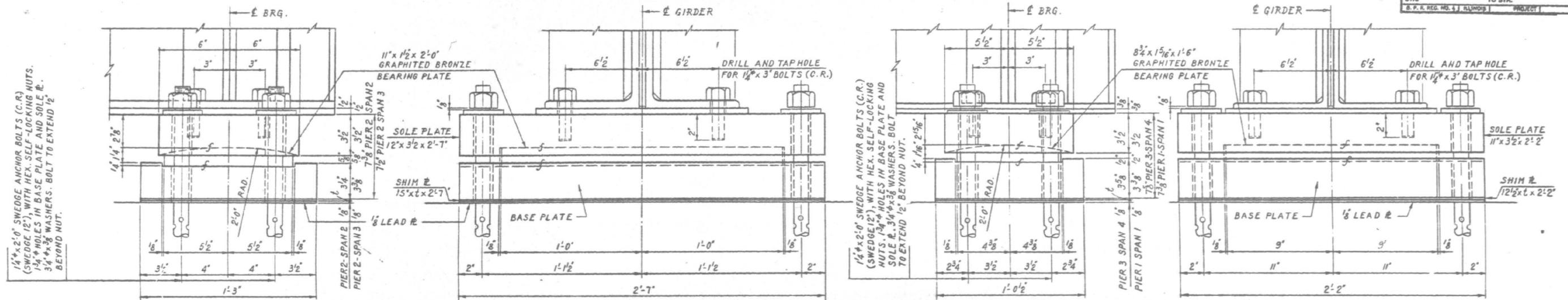
LOCATION 2 (SN 016-2024)
 DECK SECTION AND DETAILS

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2017-0478P	VARIOUS	29	11
			CONTRACT NO. 62F79	
ILLINOIS FED. AID PROJECT				

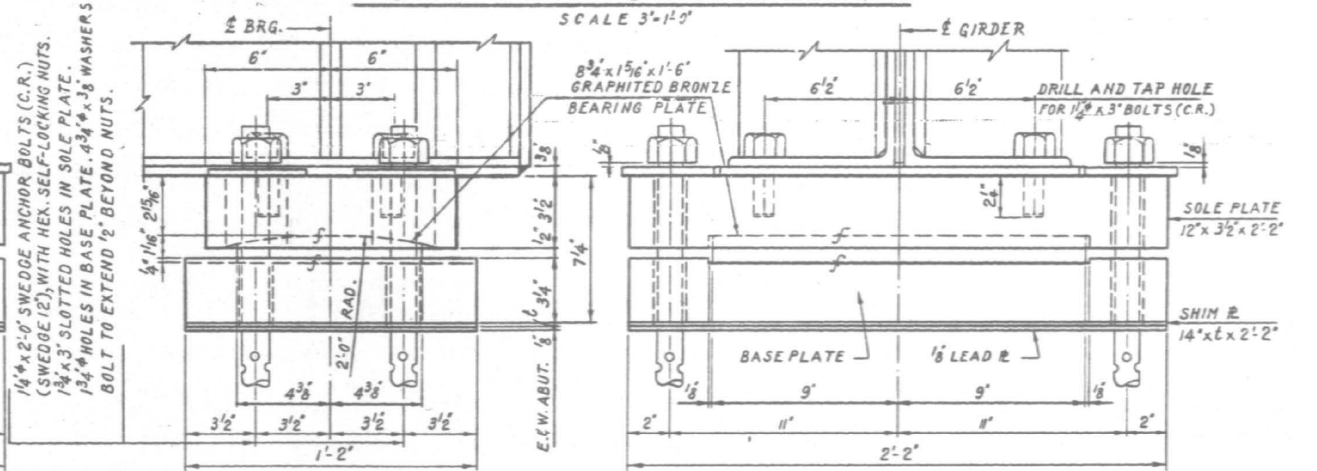
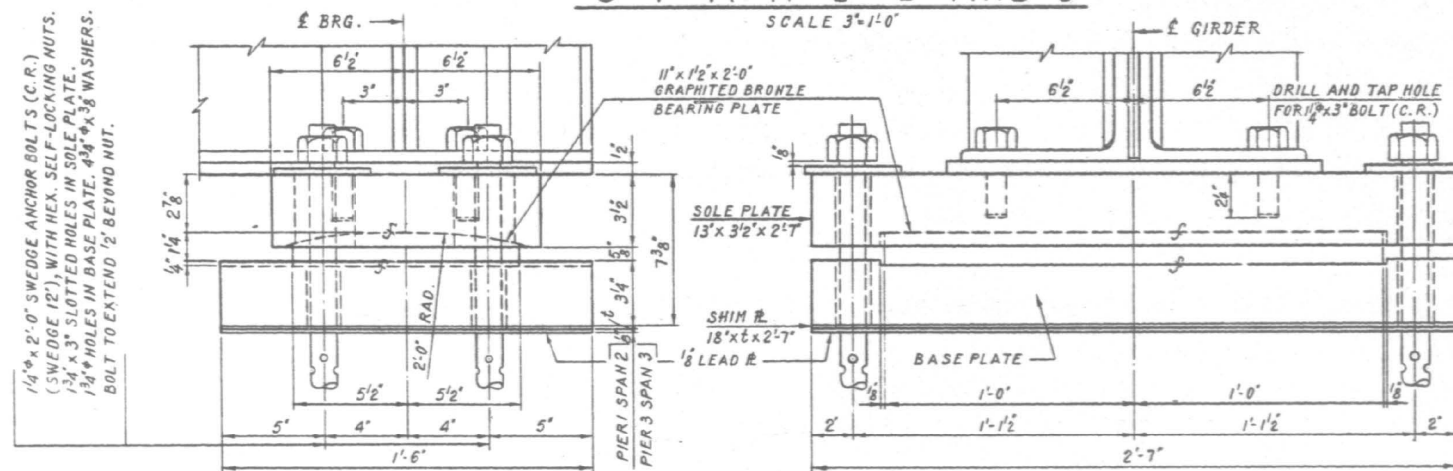
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1A 45	464-SB	COOK	51	17
STA.	TO STA.		PROJECT	
E. P. R. REG. NO. 1	ILLINOIS			



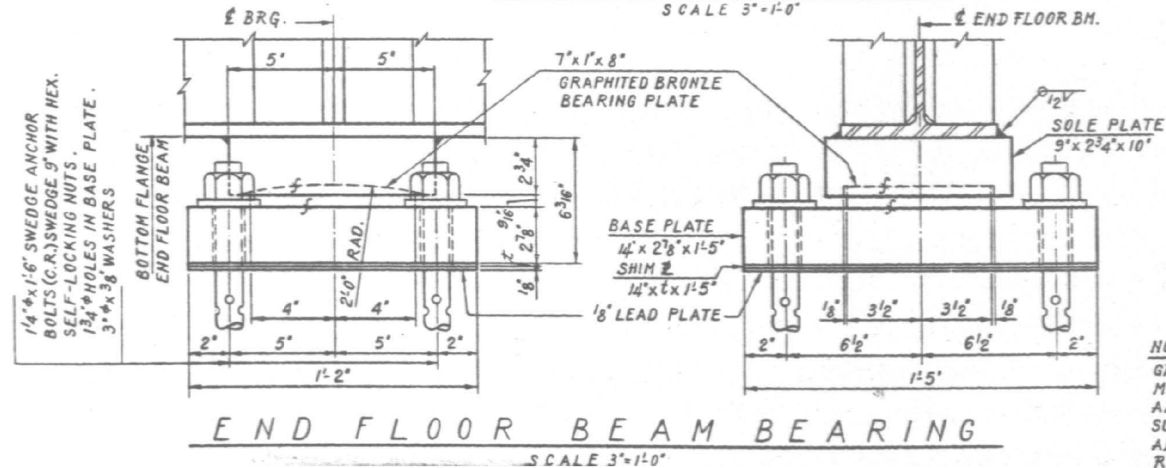
FIXED BEARING SPANS 2 AND 3
SCALE 3"-1'-0"

FIXED BEARING SPANS 1 AND 4
SCALE 3"-1'-0"

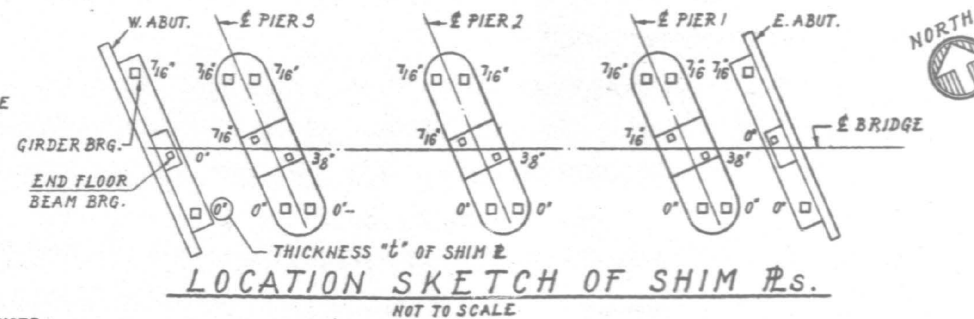


EXPANSION BEARING SPANS 2 AND 3
SCALE 3"-1'-0"

EXPANSION BEARING EAST & WEST ABUTMENT
SCALE 3"-1'-0"



END FLOOR BEAM BEARING
SCALE 3"-1'-0"



NOTE:

GRAPHITED BRONZE PLATES AT EXPANSION AND FIXED BEARINGS SHALL BE MADE FROM CAST BRONZE ALLOY #S. CONFORMING TO A.S.T.M. B22-ALLOY B, AND SHALL CONTAIN GRAPHITE FILLED RECESSES. RECESSES ARE ON TOP AND BOTTOM SURFACES OF EXPANSION BEARINGS, AND ON TOP SURFACE OF FIXED BEARINGS. ALL TAP BOLTS, SWEDGE BOLTS, WASHERS AND SELF-LOCKING NUTS TO BE CORROSION RESISTANT STEEL, INDICATED ON PLANS BY (C.R.)

ALFRED BENESCH & COMPANY
CONSULTING ENGINEERS
10 S. WABASH AVE. CHICAGO, ILLINOIS

ENGINEER OF BRIDGES

DRAWING No. 38150 FILE No. 249-10

PROJECT SECTION 464-SB
COOK COUNTY
100F 21
ILLINOIS CENTRAL RAILROAD
BR. WIG-1 F.A.R.T.E. 45 (S.B. RTE. 46-MANNHEIM ROAD)
WESTCHESTER, ILLINOIS
BEARINGS
SCALE: AS NOTED DATE: 11-16-64

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 2 (SN 016-2024)
STRUCTURAL FIXED AND EXPANSION BEARINGS

SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.

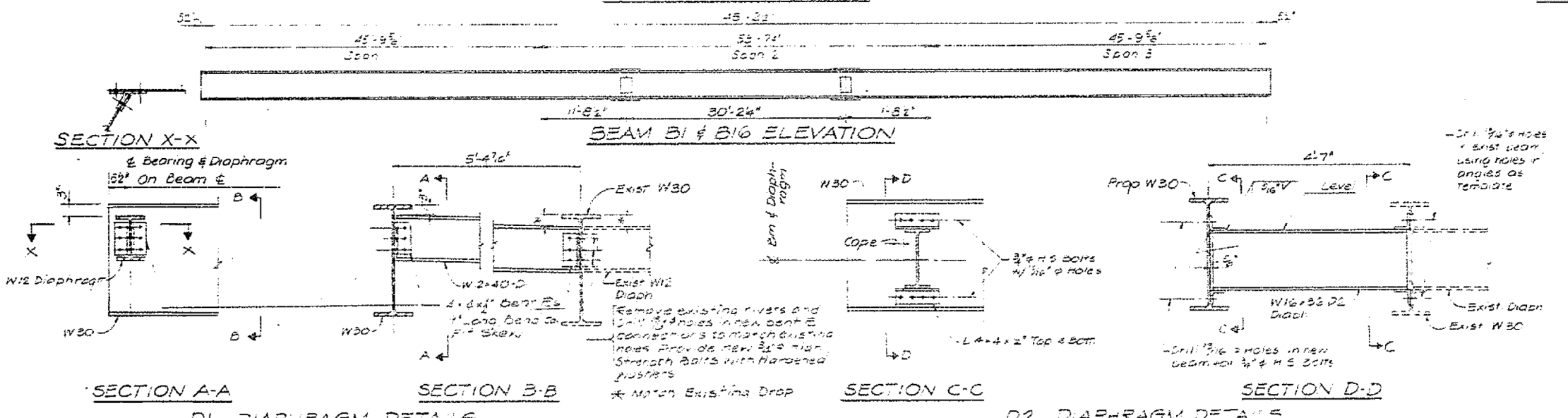
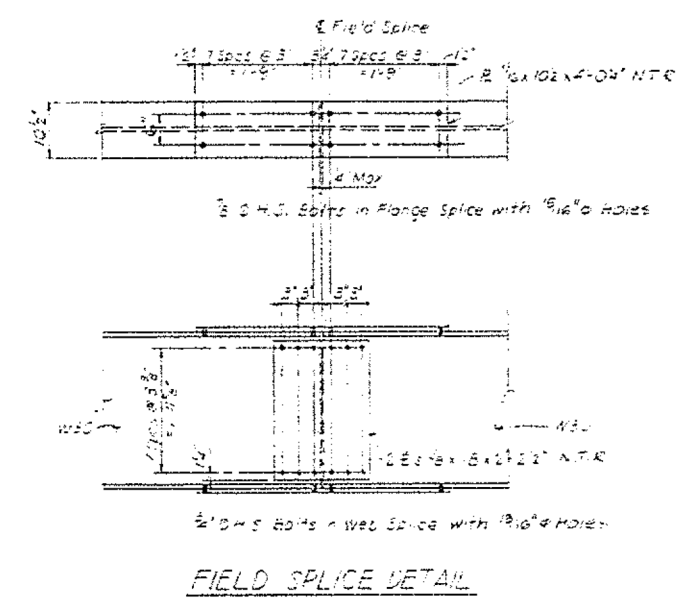
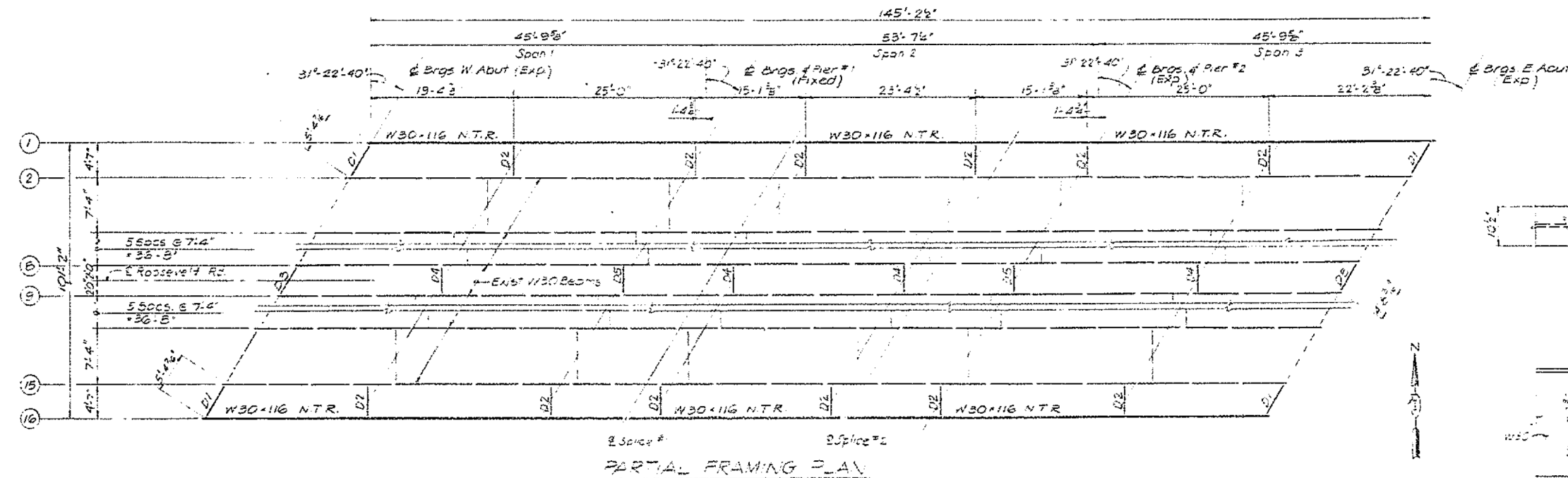
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2017-047BP	VARIOUS	29	12
			CONTRACT NO. 62F79	
		ILLINOIS	FED. AID PROJECT	

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FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	W	DUPAGE	51	43
JOB NO. 1017-011-07				
JOB-R-3(80)				

SHEET NO **9**
15 SHEETS



INTERIOR BEAM MOMENT TABLE

	DA521023	PIER 1022	GS5F2
1	100	4930.0	4930.0
2	102	102	102
M2	1420	-2618	187
M2	2940	-2377	282
M2	868	-65	78
TOTAL	2200	854.6	430.5
FS	1875	2022	1754

INTERIOR GIRDER REACTION TABLE

	ABUTMENT	PIER
R2	75	549
R4	362	446
M2	106	28
TOTAL	643	133

TOP OF BEAM ELEVATIONS *

LOCATION OF BEAM	g Brgs W/ Abut	g Brgs Pier #1	Splice #1	Splice #2	g Brgs Pier #2	g Brgs East Abut
B1	662.53	662.50	662.48	662.47	662.53	662.50
B16	662.70	662.67	662.62	662.53	662.51	662.42

* For fabricator only

NOTES FOR SECTIONS A-A THRU F-F:
 - Hardened washers shall be required over all 3/4" holes with 3/4" bolts
 - All contact surfaces of the joints for diaphragms shall be free of paint or lacquer

NOTE: NTR designates Notch Toughness Requirements, see General Notes

FRAMING PLAN AND DETAILS
 ROOSEVELT RD. (ILL. 36) - MAINLINE OVER
 SALT CREEK
 FAP ROUTE 567 SECTION JB-R-31601
 DU PAGE COUNTY
 STATION 56+38.10
 DATE: OCTOBER 10, 1985

DESIGNED BY: [Signature]
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]
 NELSON OSTROM BASHIN BERMAN & ASSOC., INC.
 1000 W. WASHINGTON ST., SUITE 200, CHICAGO, ILL. 60601

MODEL: Default FILE: \\nas01\p\1017-011-07\Documents\1017-011-07-09-15-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000

USER NAME = saintvlch	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / 1 in.	DRAWN -	REVISED -
PLOT DATE = 10/19/2017	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 3 (SN 022-0026)
 FRAMING PLAN AND DETAILS

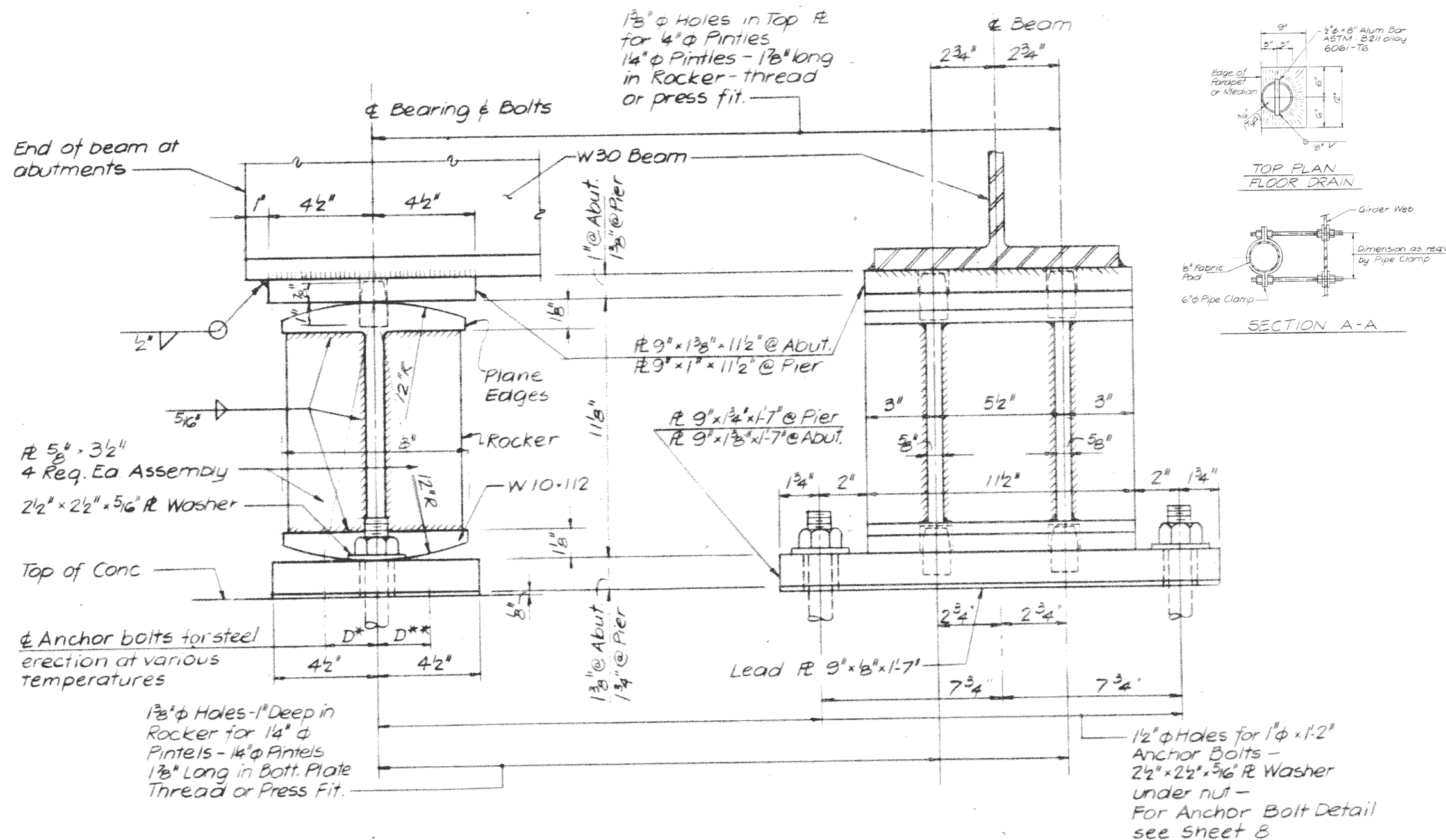
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2017-047BP	VARIOUS	29	14
CONTRACT NO. 62F79				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

ADDITIONAL SHEETS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	R	DUPAGE	51	44
* JB-R-3(80)				

SHEET NO. 10
15 SHEETS



ABUTMENT & PIER EXPANSION BEARING

BEARING & DRAIN DETAILS
ROOSEVELT RD. (ILL. 38) - MAINLINE
OVER
SALT CREEK
FAP ROUTE 567 SECTION JB-R-3(80)
DU PAGE COUNTY
STATION: 56+38.10
DATE: OCTOBER 10, 1985

MODEL: Default
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USER NAME = saintvlch	DESIGNED -	REVISED -
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PLOT DATE = 10/19/2017	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 3 (SN 022-0026)
BEARING AND DRAIN DETAILS

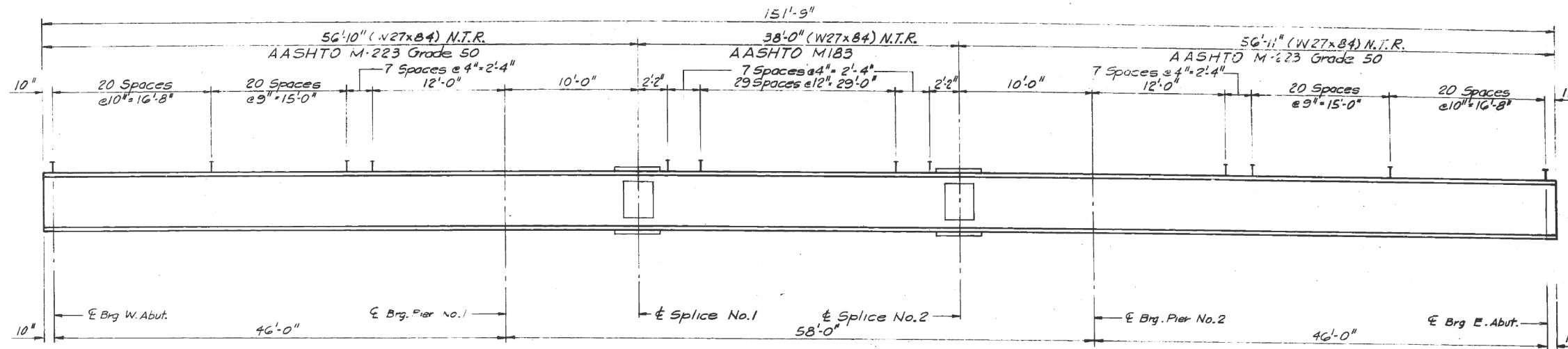
SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2017-047BP	VARIOUS	29	15
CONTRACT NO. 62F79				
ILLINOIS FED. AID PROJECT				

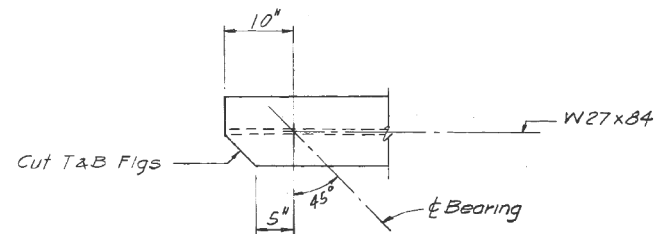
FOR INFORMATION ONLY

F.A. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	32-BR-79	DU PAGE	37	27
STA.		TO STA.		
PER ROAD DIST. NO. 7		ILLINOIS	FEDERAL AID PROJECT	

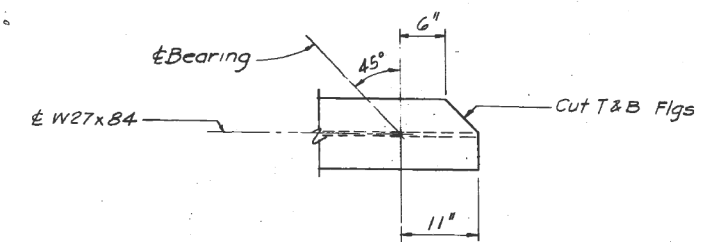
Sheet 17 of 26



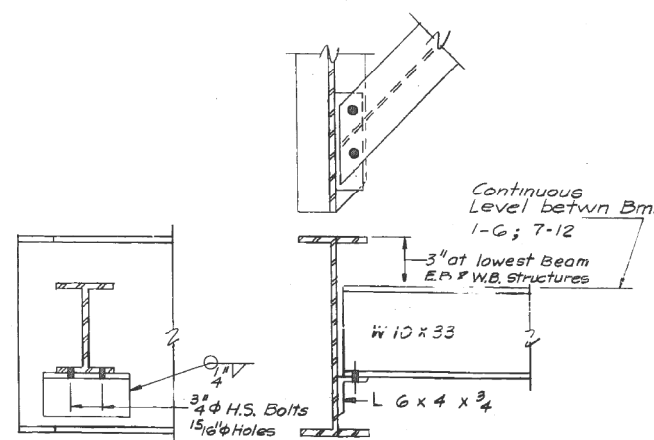
BEAM ELEVATION
(Looking North)



WEST END OF BEAMS

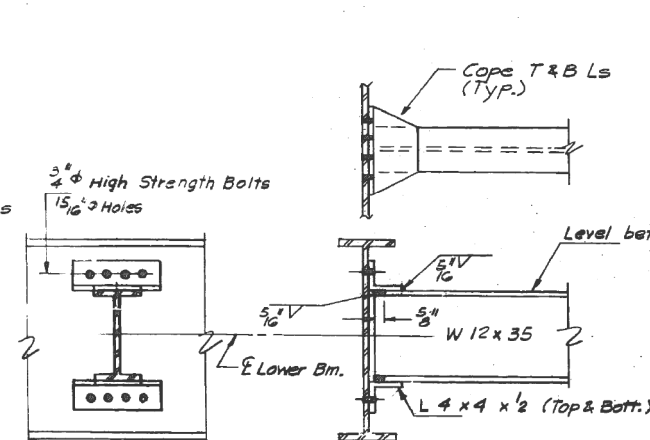


EAST END OF BEAMS



END DIAPHRAGM

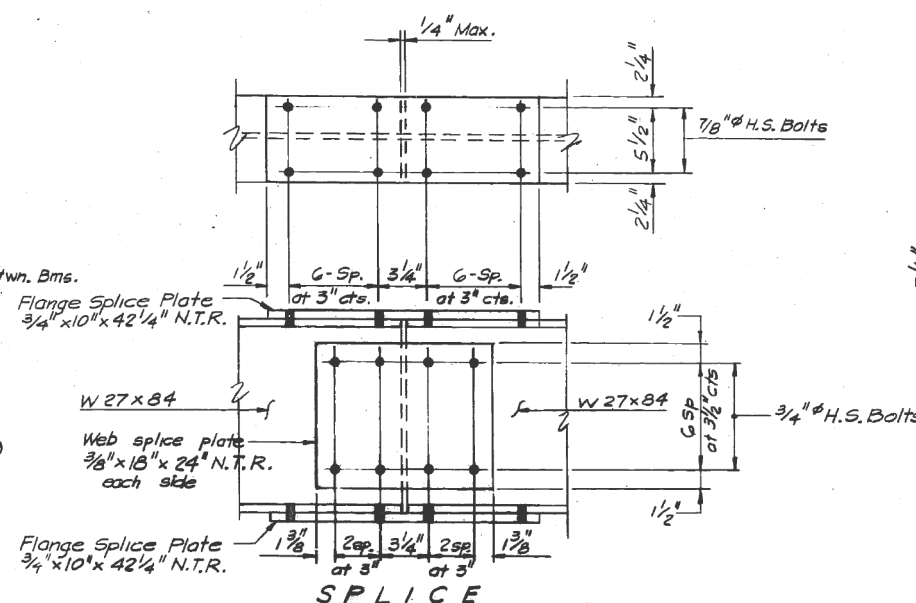
20 Required



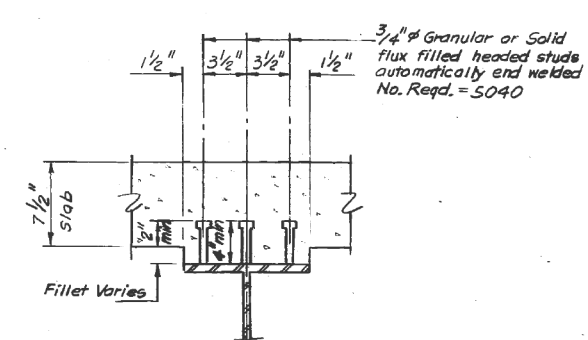
INTERMEDIATE DIAPHRAGM

90 Required

Note: Two Hardened washers shall be required over 15/16" holes



SPLICE



SHEAR STUDS

Note:
Work this sheet with Sheets 16 & 18
N.T.R.: Designates Notch Toughness Requirements.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
STRUCTURAL STEEL**

F.A.U. RTE. 1321 (ILL. RTE. 19) SECTION 32-BR-79
DU PAGE COUNTY
STA. 20+00

SCALE: _____ DRAWN BY W.J.S.
DATE: _____ CHECKED BY G.D.W.

MODEL: Default
FILE: \\nas01\p01\illinois\gov\p01\DOT\Documents\1321\1321-047BP\1321-047BP-18-struct-steel.dgn

USER NAME = saintvlch	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/19/2017	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 4 (SN 022-0147)
STRUCTURAL STEEL BEARINGS**

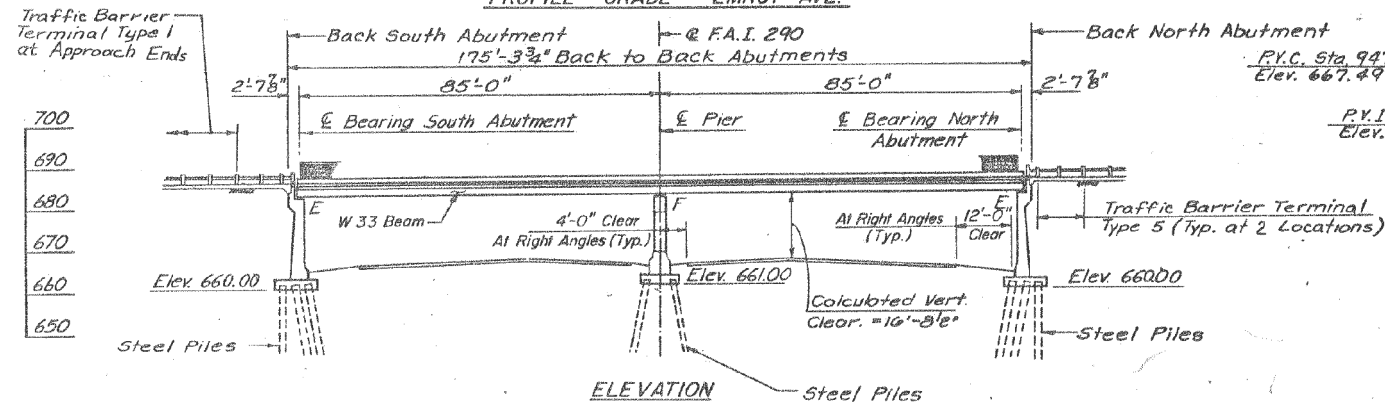
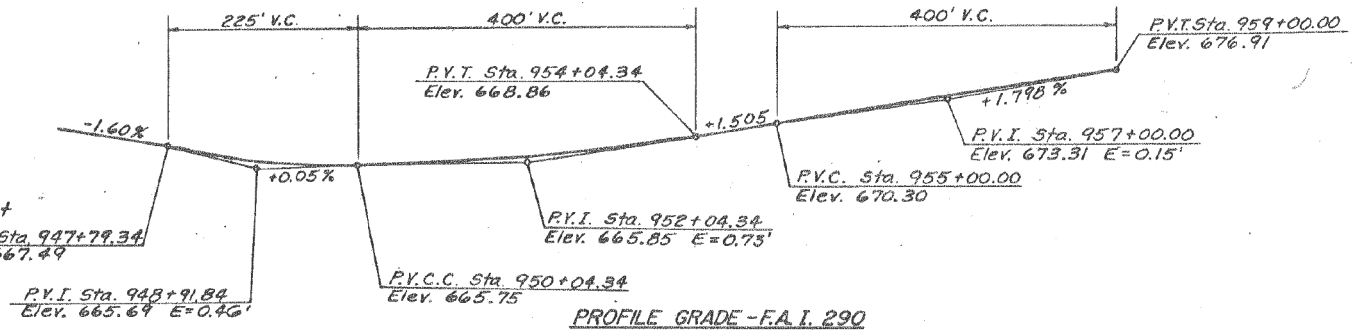
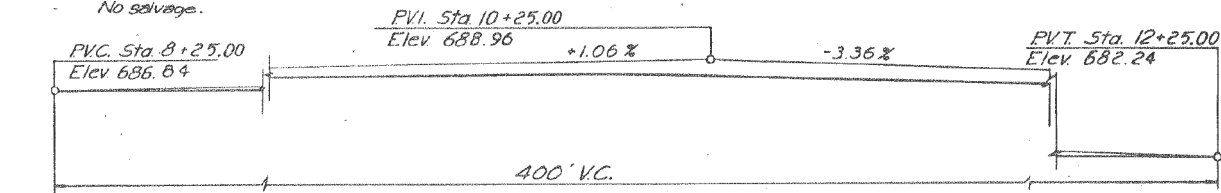
SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2017-047BP	VARIOUS	29	18
			CONTRACT NO. 6279	
		ILLINOIS	FED. AID PROJECT	

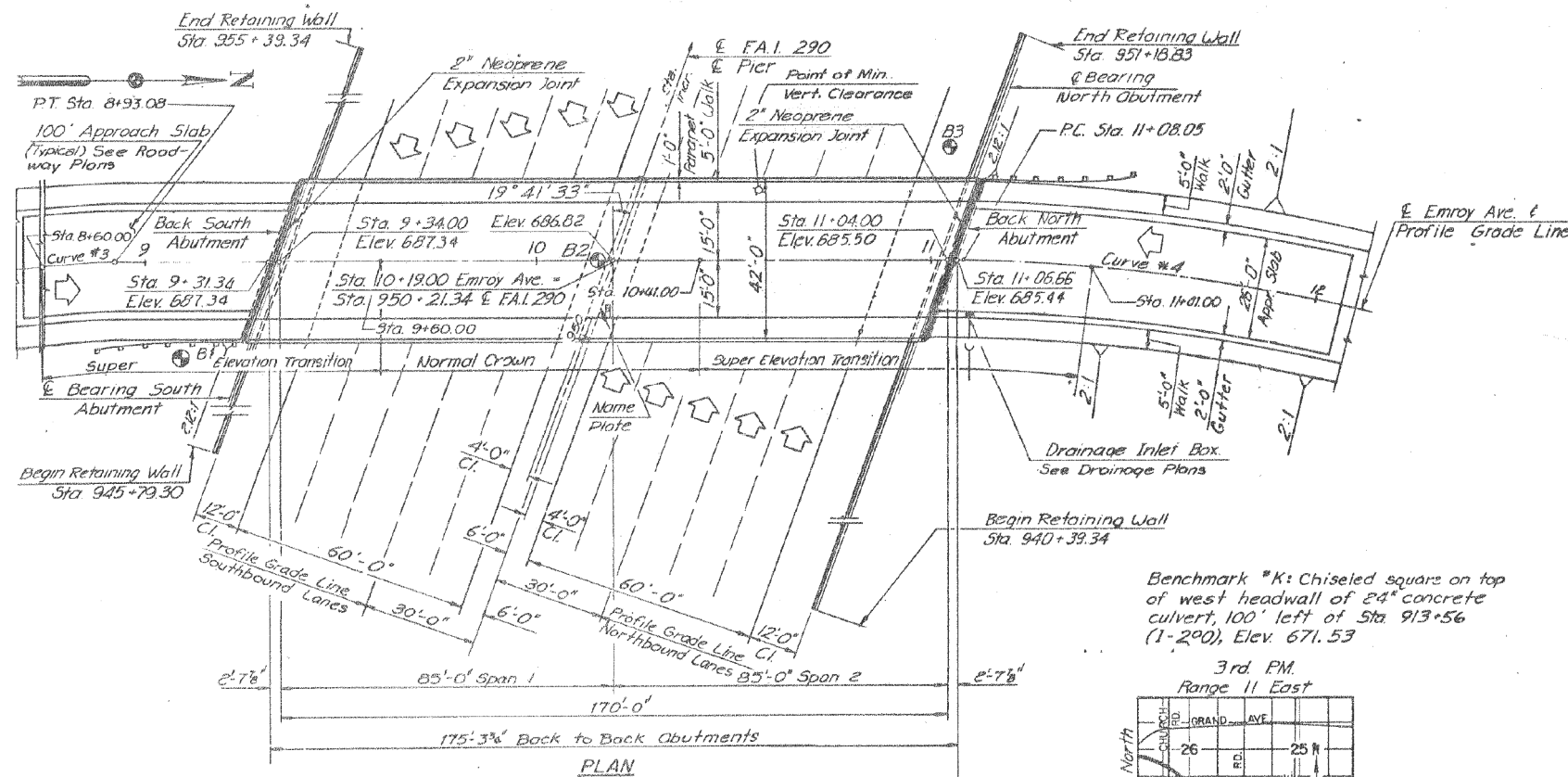
FOR INFORMATION ONLY

EXISTING STRUCTURE: # U22-U122 120'-3" LONG BY 36'-0" WIDE. BUILT AS F.A.I. AVE. 1, DEL. 100 RD-3, ON STA 10+10 TO 12+10 IN 1951.
 The existing two span concrete slab on WF beam superstructure, with a solid pier and closed abutments shall be removed and a new relocated structure built. The existing structure shall be used for traffic during construction stages I-III (See sheet 3).
 No salvage.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 290	100HB-3-R(84)	DUPAGE	75	37
FEDERAL AID PROJECT NO.			SHEET NO. 1 OF 37 SHEETS	
FED. ROAD DIST. NO. 7	ILLINOIS			



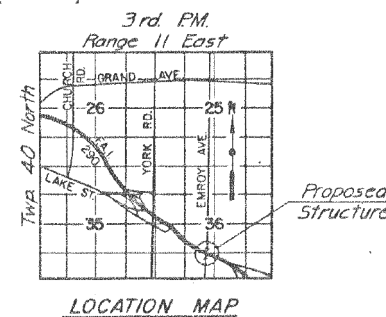
ITEM	UNIT	BRIDGE			TOTAL
		SUPER-STRUCTURE	SUB-STRUCTURE	RETAINING WALL	
Removal of Existing Structures	L. Sum				1
Structure Excavation	Cu. Yd.		762	10384	11146
Protective Coat	Sq. Yd.	891			891
Class X Concrete	Cu. Yd.	257.0	355.1	2721.8	3333.9
Structural Steel	L. Sum	1			1
Stud Shear Connectors	Each	2628			2628
Reinforcement Bars	Pound		43610	175960	219570
Reinforcement Bars (Epoxy Coated)	Pound	52860	3870	20890	77620
Steel Piles HP8x36	Lin. Ft.			1987	1987
Steel Piles HP10x42	Lin. Ft.		1958	11686	13644
Test Pile Steel HP8x36	Each			2	2
Test Pile Steel HP10x42	Each		3	9	12
Steel Sheet Piling	Sq. Ft.		2984		2984
Temporary Sheet Piling	Sq. Ft.		1100	11424	12524
Name Plates	Each		1		1
Elastomeric Bearing Assembly, Type I	Each	12			12
Drainage Scuppers	Each	1			1
Neoprene Expansion Joint 2"	Lin. Ft.	90			90
Drainage System	L. Sum				1
Chain Link Fence 6' Bridge	Lin. Ft.	344			344
Chain Link Fence 4' Bridge	Lin. Ft.	344			344
Enkadrain System	Sq. Yd.		230	2741	2971
Chain Link Fence 4' Special	Lin. Ft.			1945	1945



CURVE DATA

Curve # 3
 $\Delta = 5^{\circ}-00'-00''$
 $D = 5^{\circ}-00'-00''$
 $R = 1145.92'$
 $T = 50.03'$
 $L = 100.00'$
 $E = 1.09'$
 $P.I. = 8+43.11$
 $S.E. = 0.020\%$

Curve # 4
 $\Delta = 12^{\circ}-49'-33''$
 $D = 11^{\circ}-52'-30''$
 $R = 482.49'$
 $T = 54.23'$
 $L = 108.00'$
 $E = 3.04'$
 $P.I. = 11+62.28$
 $S.E. = 0.032\%$



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 5 (SN 022-0149)
 PLAN AND PROFILE ELEVATION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**BRIDGE PLAN AND ELEVATION
 AND QUANTITIES**

FA.I. ROUTE 290, DUPAGE COUNTY
 SECTION 100HB-3-R(84)
 STA. 950+21.34

INTERSTATE ROUTE 290 UNDER
 EMROY AVENUE

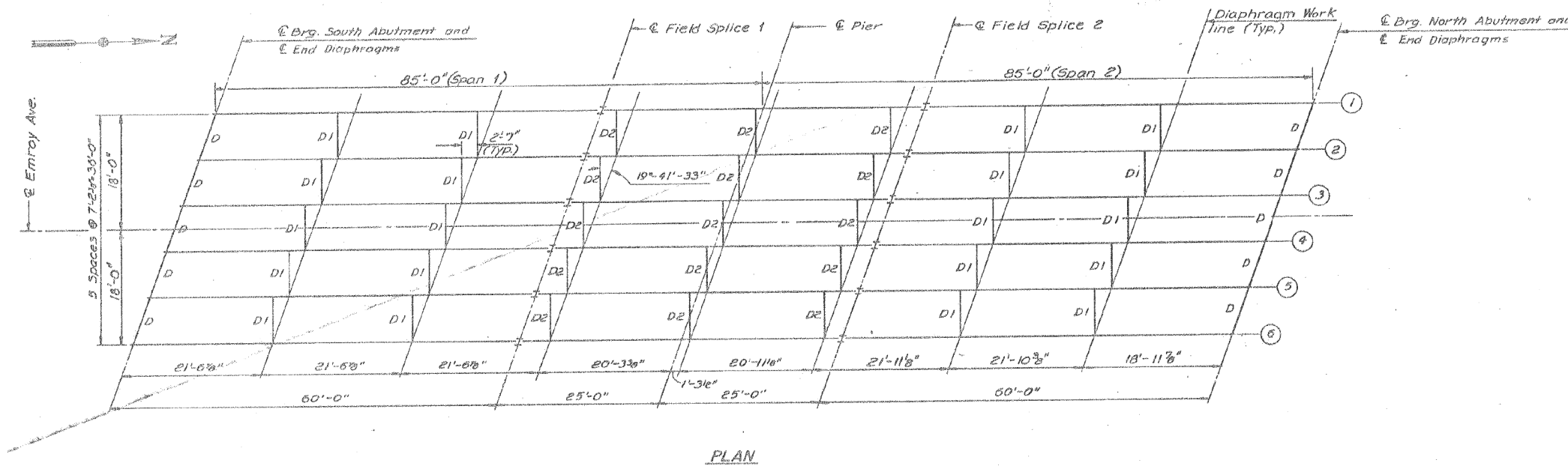
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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/19/2017	DATE -	REVISED -

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2017-047BP	VARIOUS	29	21
CONTRACT NO. 62F79			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10 OF 37 SHEETS
EAL290	100HB-3-R(84)	DUPAGE	75	48	
FEDERAL AID PROJECT NO.					
FED. ROAD DIST. NO. 7			ILLINOIS		



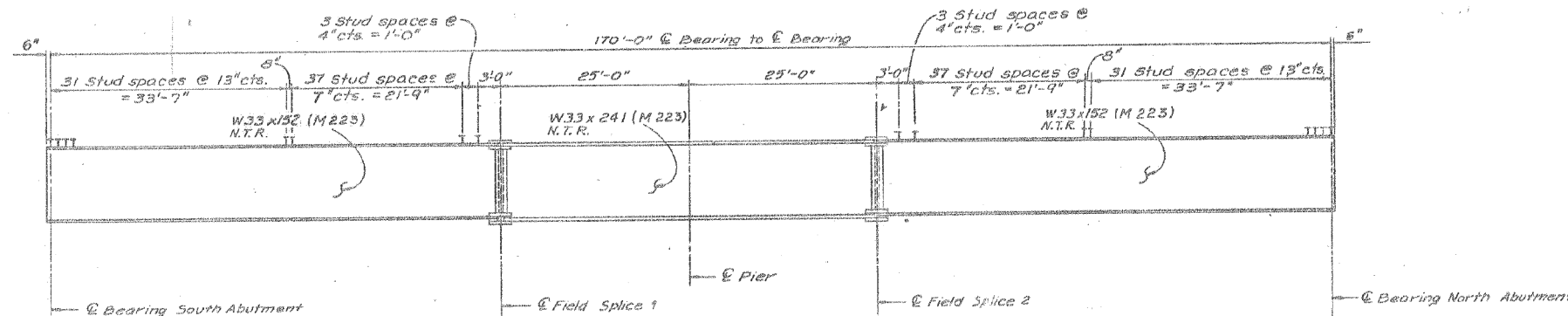
MOMENT TABLE
SYMMETRICAL COMPOSITE 2 SPAN
(Composite in Positive Moment Area Only)

INTERIOR GIRDER MOMENT TABLE		
	04 Sp.1	Pier
I_s (in ⁴)	8,160	14,200.0
I_c (in ⁴)	21,618	---
S_s (in ³)	487	829
S_c (in ³)	713	---
\bar{Q} (in)	.861	1.573
$M_{\bar{Q}}$ (K)	373	1,334
\bar{Z} (in ³)	559	---
$s_{\bar{Q}}$ (in)	0.423	---
$M_{s_{\bar{Q}}}$ (K)	216	---
$M_{\bar{L}}$ (K)	662	570
M_{imp} (K)	158	156
$^3_3(M_{\bar{L}} + 1)$ (K)	1567	1177
$M_{\bar{Q}}$ (K)	2540	3264
$f_s^{non-comp}$ (k.s.i.)	9.2	19.3
$f_s^{\bar{Q}}$ (comp) (k.s.i.)	3.6	---
$f_s^{^3_3(\bar{L} + 1)}$ (k.s.i.)	23.0	17.0
$f_s^{(Overload)}$ (k.s.i.)	35.8	36.3
$f_s^{(Total)}$ (k.s.i.)	46.6	47.2
VR (K)	55.4	---

INTERIOR GIRDER REACTION TABLE		
	Abutment	Pier
$R_{\bar{Q}}$ (K)	39.3	144
$R_{\bar{L}}$ (K)	40.8	61.6
R_{imp} (K)	9.7	14.6
R_{total} (K)	89.8	220.2

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s^{Total} .
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s^{Total} .
 VR is the maximum $\bar{L} + Imp$ shear range in span.

$M_{\bar{Q}}$ (Applied Moment) = $1.3C M_{\bar{Q}} + M_{s_{\bar{Q}}} + ^3_3(M_{\bar{L}} + 1)$



Note:
 N.T.R. Indicates Notch Toughness Requirement.
 M223 Steel that is noted is Grade 50

TOP OF BEAM ELEVATIONS (FOR FABRICATION ONLY)					
Beam	S. Abut.	# Splice 1	Pier	# Splice 2	N. Abut.
1	686.47	685.98	685.72	685.46	684.99
2	686.57	686.18	686.89	685.63	684.91
3	686.63	686.29	686.02	685.75	684.84
4	686.60	686.31	686.04	685.77	684.75
5	686.48	686.22	685.96	685.70	684.62
6	686.54	686.09	685.84	685.58	684.48

* This elevation is at top of W33 x 241



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FRAMING PLAN AND GIRDER ELEVATION

F.A.I. ROUTE 290, DUPAGE COUNTY
 SECTION 100HB-3-R(84)
 STA. 950+21.34
 INTERSTATE ROUTE 290 UNDER
 EMROY AVENUE

MODEL: Default
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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/19/2017	CHECKED -	REVISED -
	DATE -	REVISED -

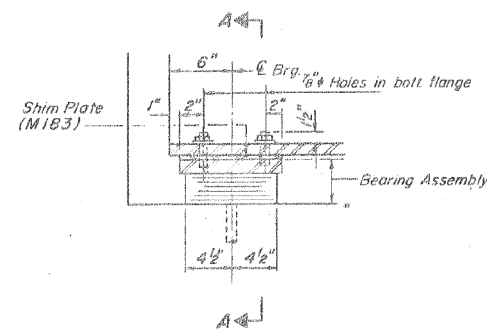
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 5 (SN 022-0149)
 STRUCTURAL STEEL FRAMING PLAN

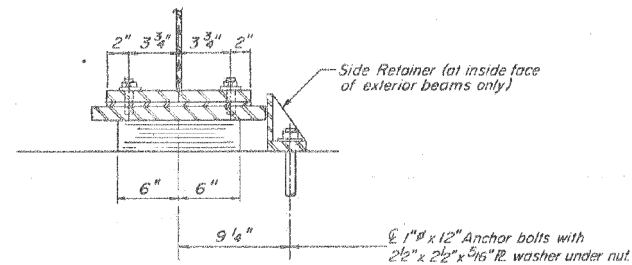
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2017-047BP	VARIOUS	29	22
ILLINOIS			FED. AID PROJECT	
			CONTRACT NO. 62F79	

FOR INFORMATION ONLY

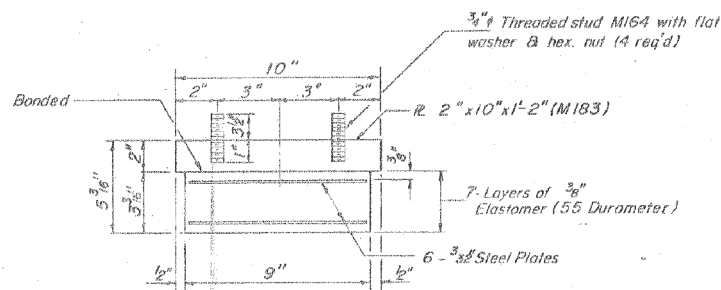


SECTION AT ABUT.

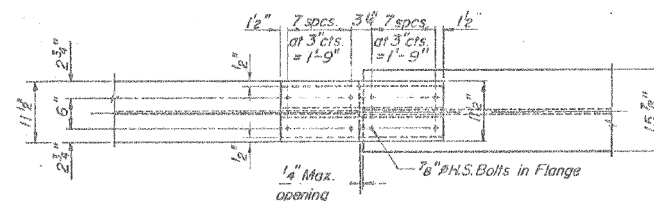


SECTION A-A

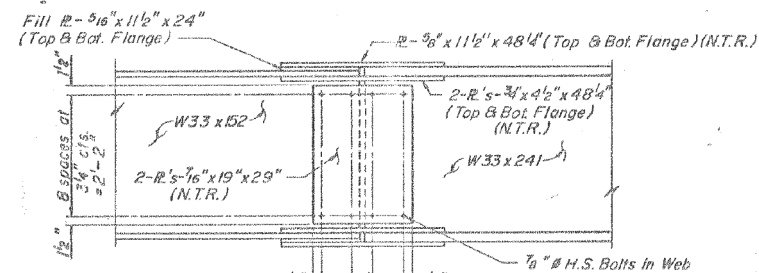
TYPE I ELASTOMERIC EXP BRG.
 Note: Shim plates shall not be placed under Bearing Assembly.



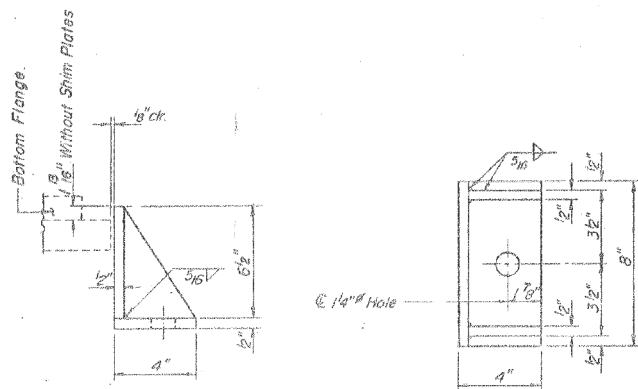
BEARING ASSEMBLY



PLAN
(Top & Bot. Flange Splices)

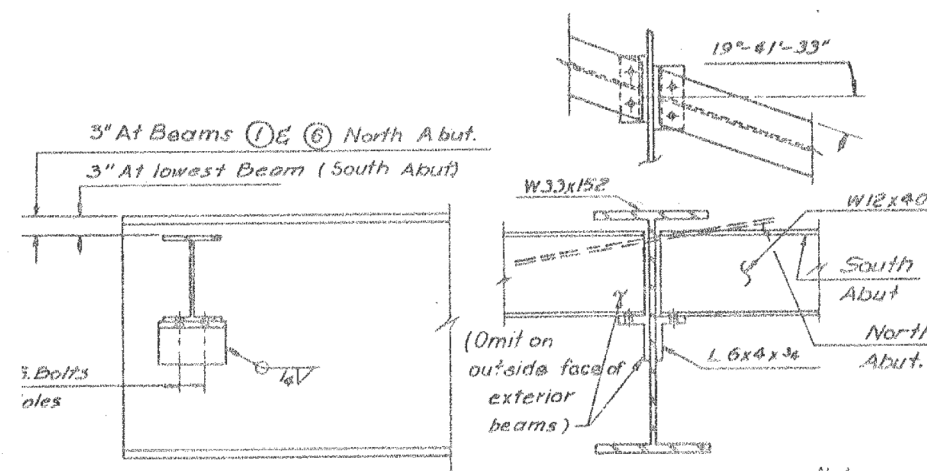


BEAM SPLICE DETAILS
(Splice Plates: M 223 Grade 50, Fill Plates: M183)



SIDE RETAINER
(M183)

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



END DIAPHRAGM D
10 Required (M183)

Top/ Diaphragm "D" Level at South Abut. Provide Constant Slope at North Abut. to get 3" from Top/WF to Top/ Diaphragm at Beams 1 & 6

Note:
Hardened washers shall be required over all 1/2 inch holes in diaphragms.

TABLE OF BEARING SHIM PLATES
(Shim plates required in addition to the 2-1/2 inch field adjusting shims per bearing.)

LOCATION	BEAM					
	1	2	3	4	5	6
So. Abut.	—	—	5/8"	1/4"	—	—
Pier	—	—	5/8"	—	—	—
No. Abut.	—	—	—	—	—	—

Notes:
 Cost of fixed bearings (including anchor bolts) and beam splice material are included in the unit bid price for "Furnishing and Erecting Structural Steel".
 Cost of threaded studs, shim plates, bearing plates, side retainers and anchor bolts are included in the unit bid price for "Elastomeric Bearing Assembly, Type I".
 For anchor bolt details and installation procedure, see Sheet No. 12. Anchor bolts at fixed bearings may be built into masonry.
 All splice plates for the beam splices are subject to the Notch Toughness Requirements (N.T.R.), except fill plates.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Elastomeric Bearing Assembly, Type I	Each	12

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
**BEARINGS AND STRUCTURAL
 STEEL DETAILS**

F.A.I. ROUTE 290, DUPAGE COUNTY
 SECTION 100MB-3-R(84)
 STA. 950+21.34
 INTERSTATE ROUTE 290 UNDER
 EMROY AVENUE

MODEL: Default
 FILE: \\mhc-pw\ulb\BEBID\NTEC\Illinois\gov\pww\DOT\Documents\DOT Office\Diagrams\1\proj\csd\1208\B\CADD\Bearing\Bearing\120818-shr-pln.dwg

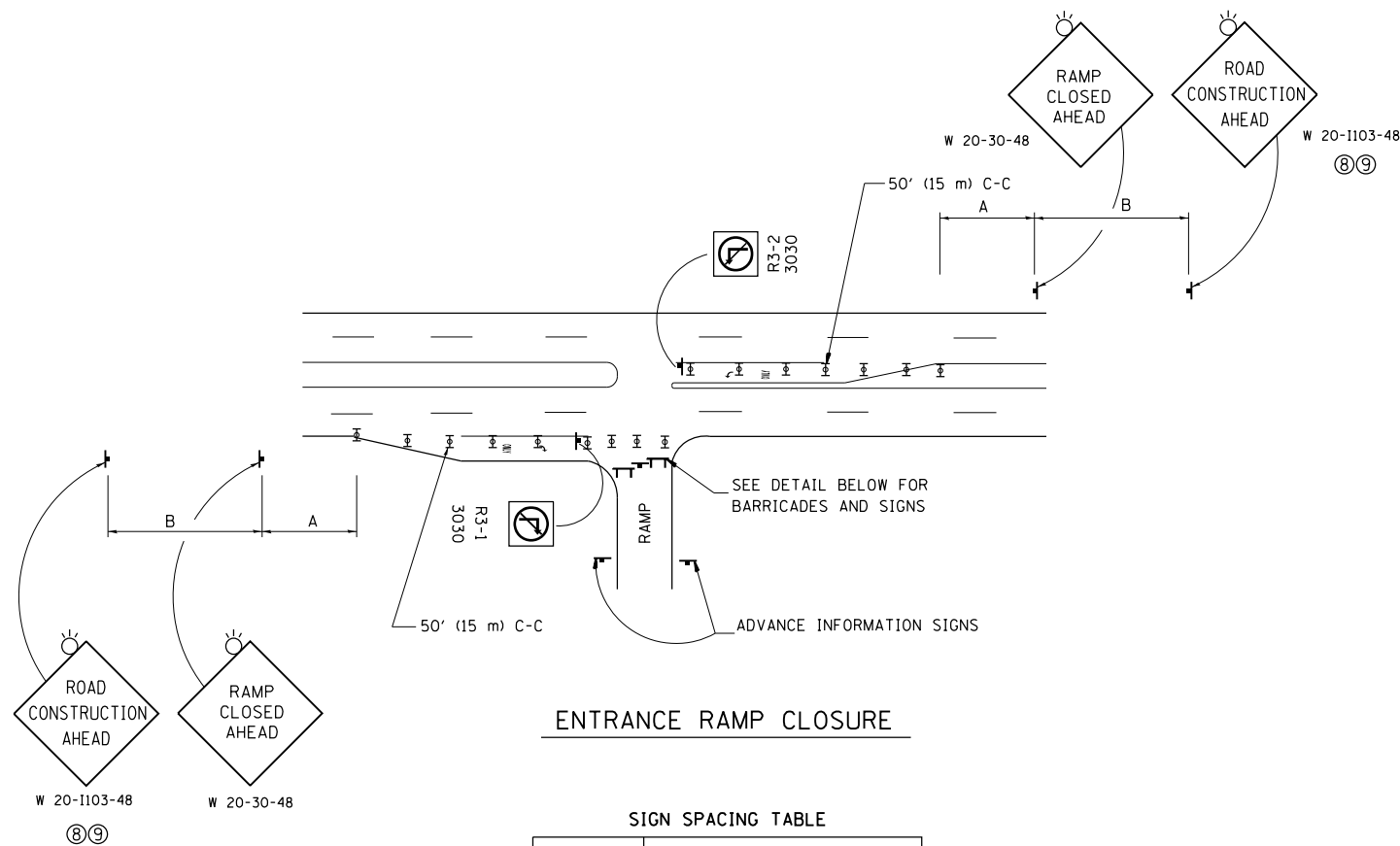
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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/19/2017	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 5 (SN 022-0149)
 STRUCTURAL STEEL BEARINGS AND DIAPHRAGM

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2017-047BP	VARIOUS	29	23
				CONTRACT NO. 62F79
				ILLINOIS FED. AID PROJECT

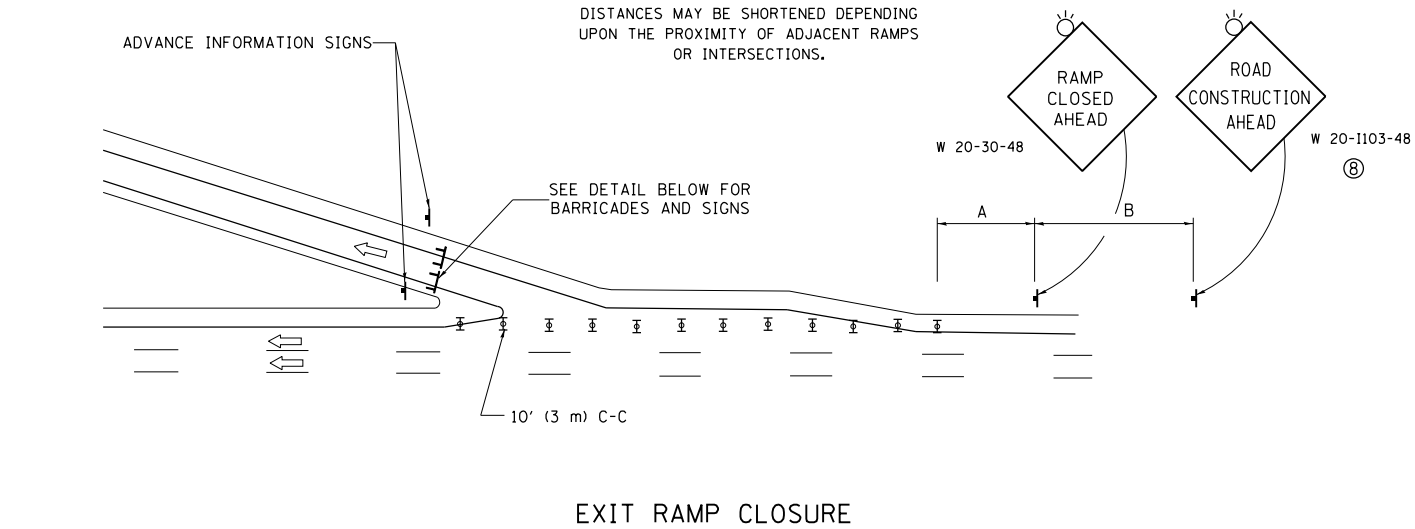


ENTRANCE RAMP CLOSURE

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 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

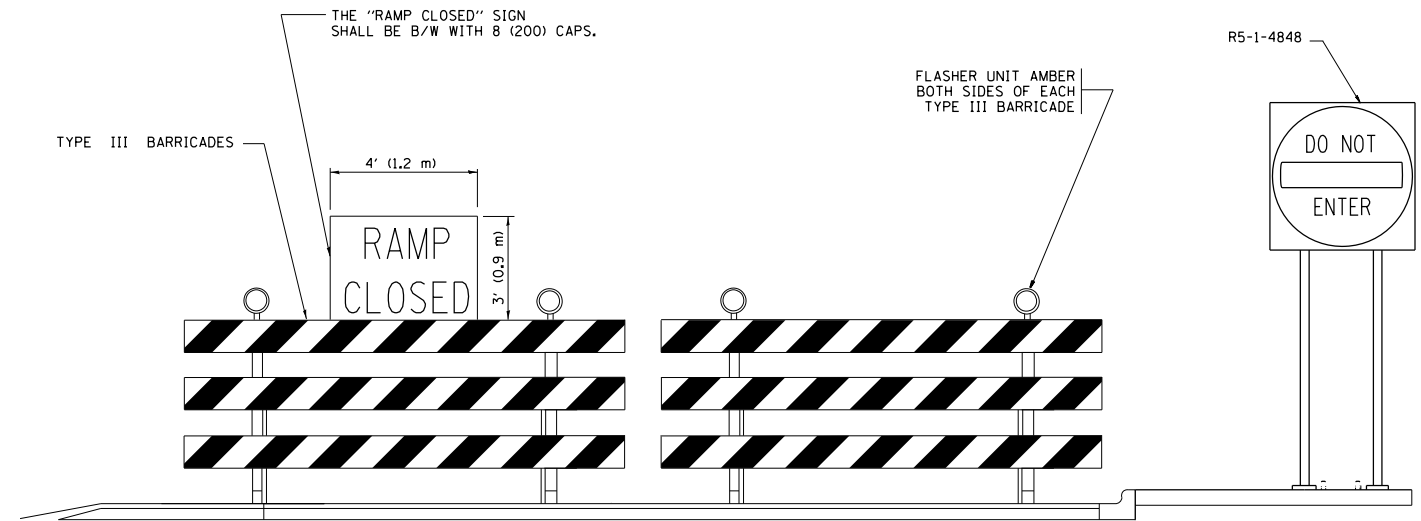
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

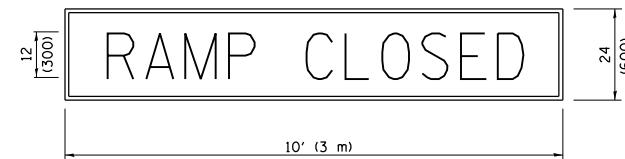
SYMBOLS

- ⊥ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ⊓ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

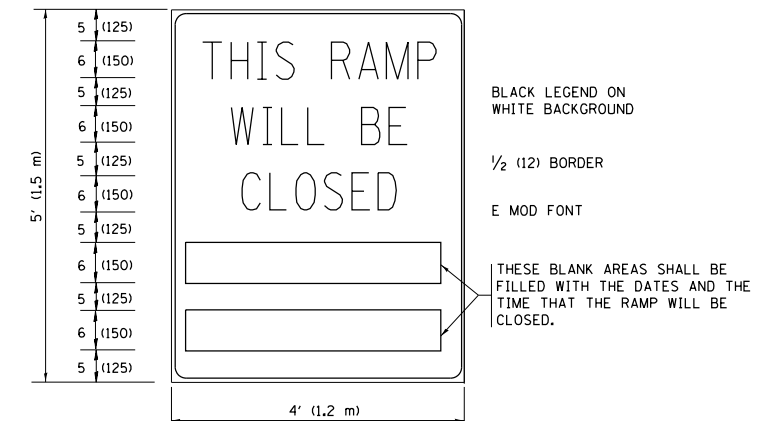
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND
1/2 (12) BORDER
E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

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

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS 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, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- 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 FOUR (4) DAYS 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 SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

FILE NAME =	USER NAME = s01ntvlch	DESIGNED - DWS	REVISED - JAF 02-06
p:\IL\084EBID\INTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI206\Browns\Design\DistStd.dgn		REVISION	REVISED - SPB 01-07
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	PLOT DATE = 10/19/2017	DATE - 02-83	REVISED - MD 06-13

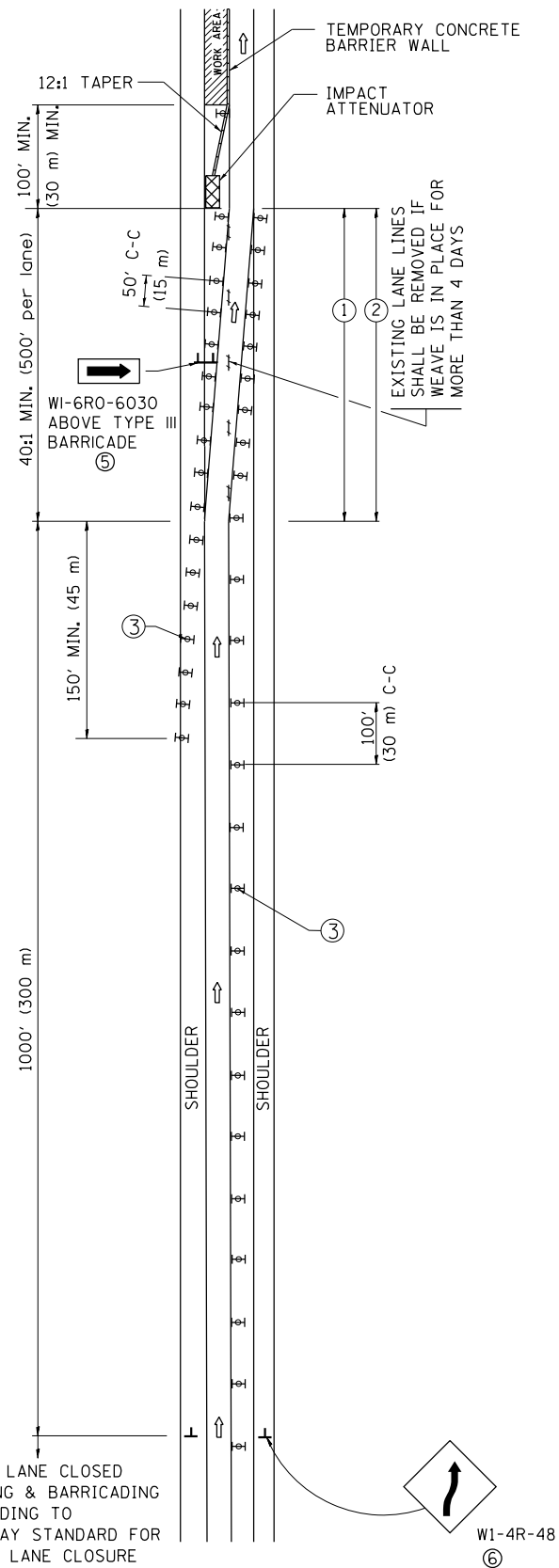
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

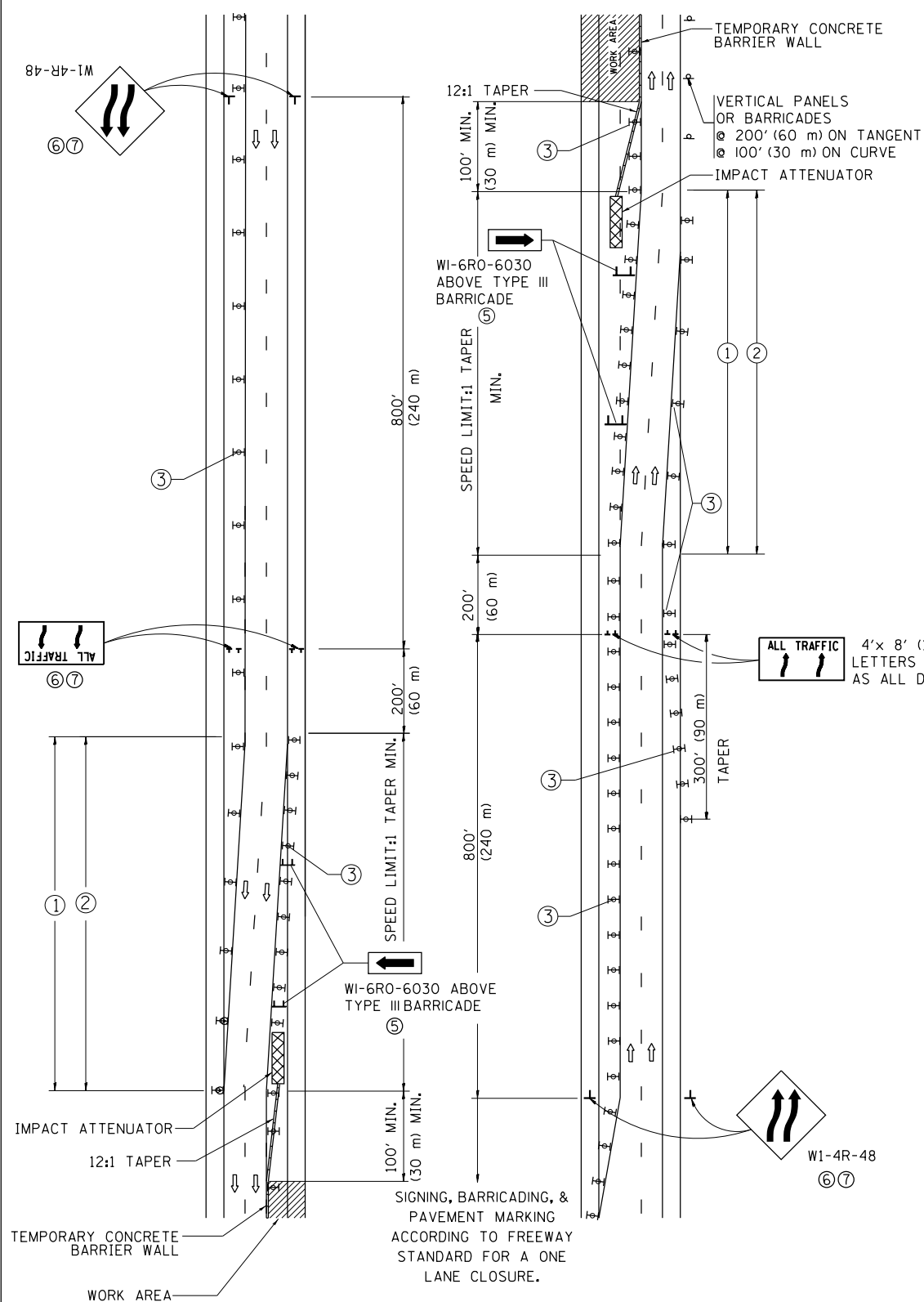
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2017-047BP	VARIOUS	29	24
TC-08		CONTRACT NO. 62F79		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SINGLE LANE WEAVE



MULTI-LANE WEAVE



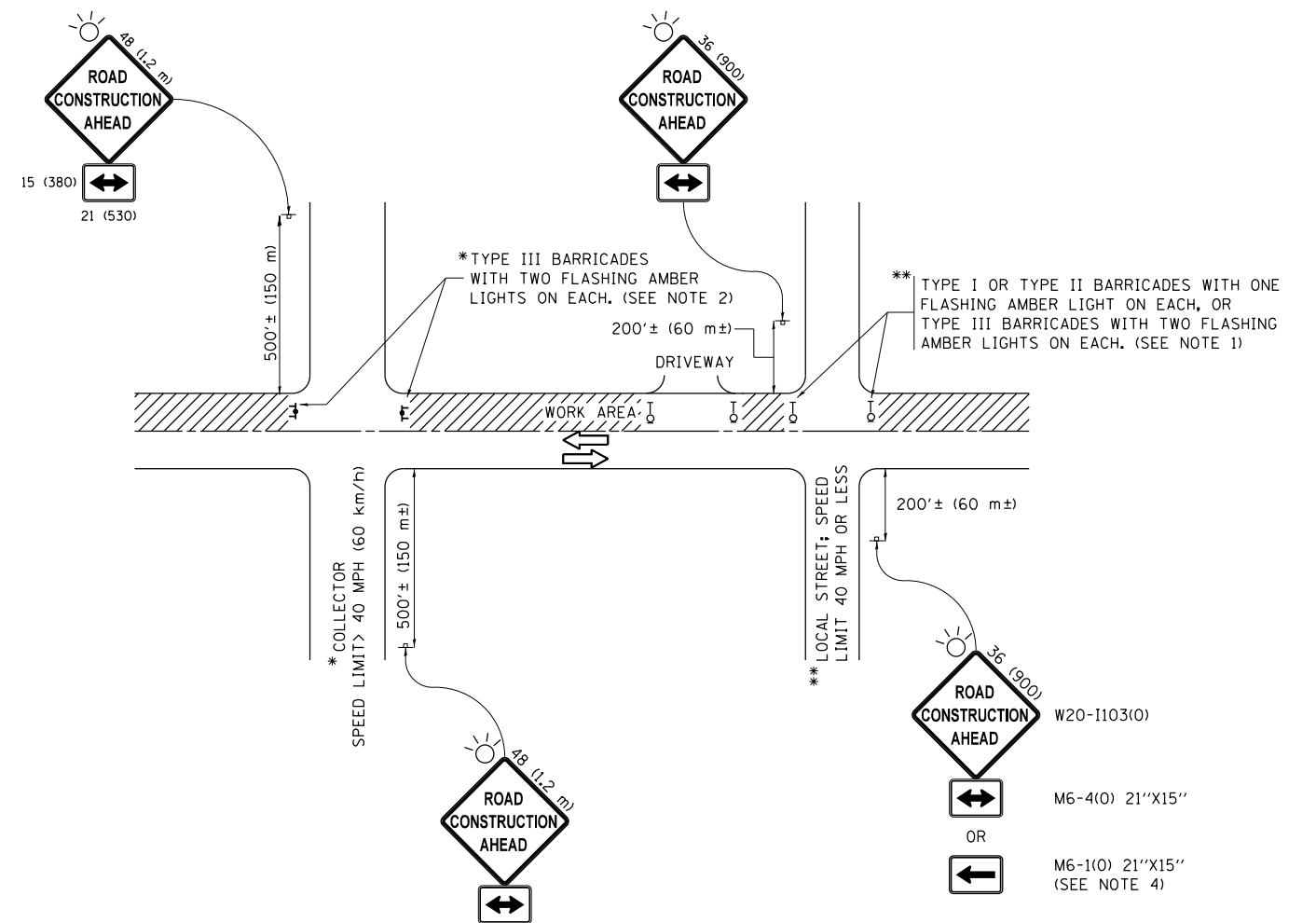
- ### GENERAL NOTES
- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
 - CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE 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.
 - 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.

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
 - TEMPORARY CONCRETE BARRIER WALL
 - IMPACT ATTENUATOR
 - W1-4R-48
 - W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = sornitwich	DESIGNED - DWS	REVISED - JAF 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI206\Browns\Design\DistStd.dgn	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED - SPB 01-07					VAR	2017-047BP	VARIOUS	29	25
	PLOT DATE = 10/19/2017	DATE - 02-87	REVISED - SPB 12-09		TC-09			CONTRACT NO. 62F79				
			REVISED - MD 06-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = saintwilch	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
pw:\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI206\Drawings\Design\DistStd.dgn			REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 10/19/2017	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2017-047BP	VARIOUS	29	26
TC-10			CONTRACT NO. 62F79	
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

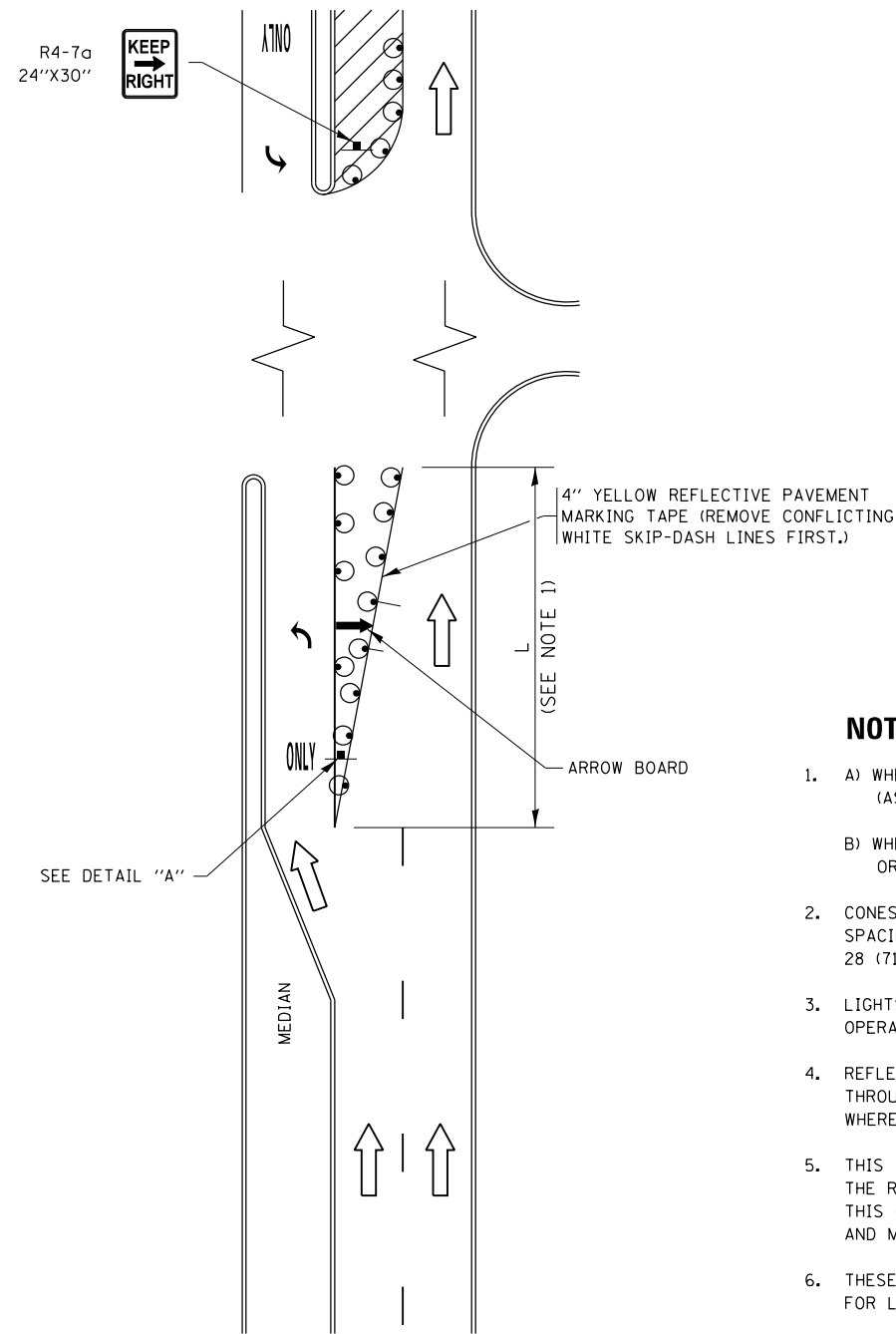


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

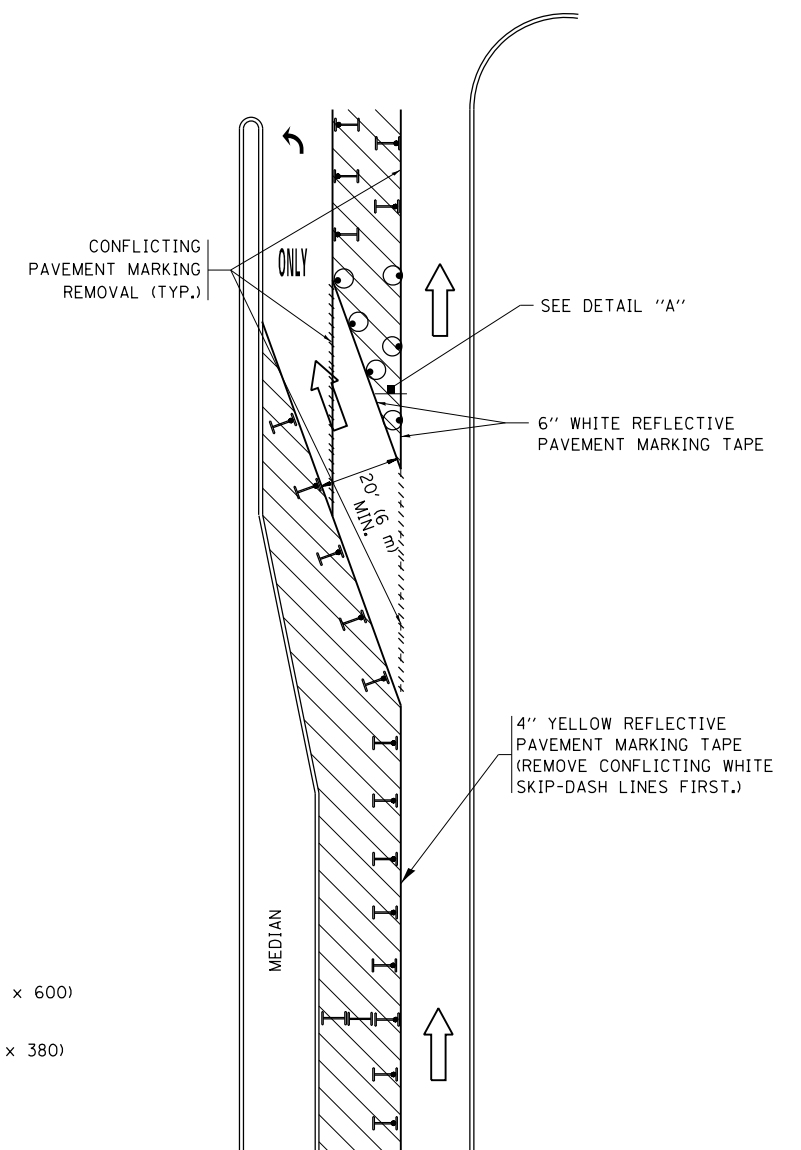
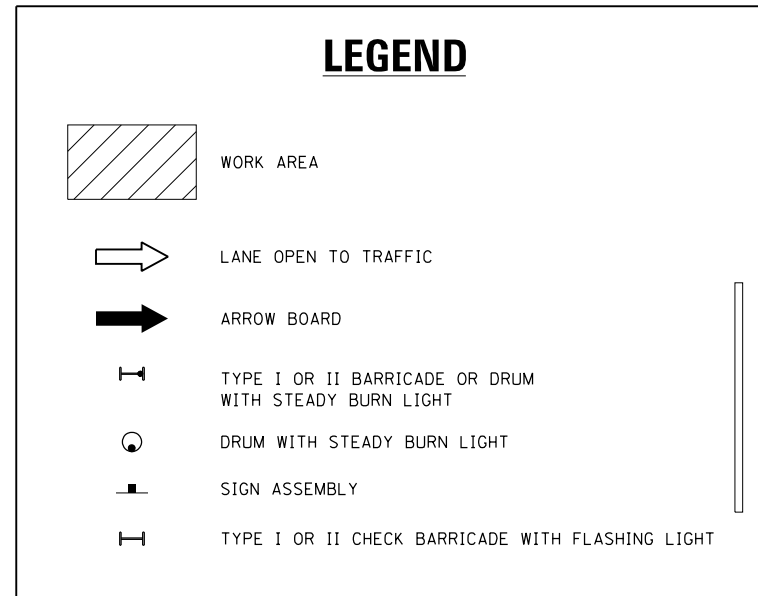
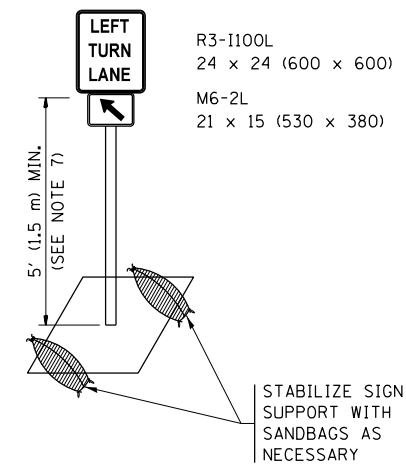


FIGURE 2



NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

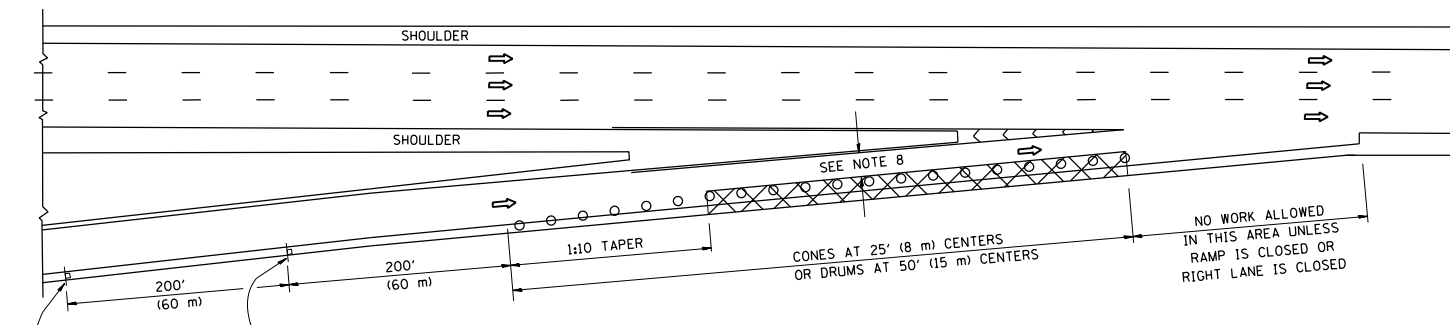


DETAIL A

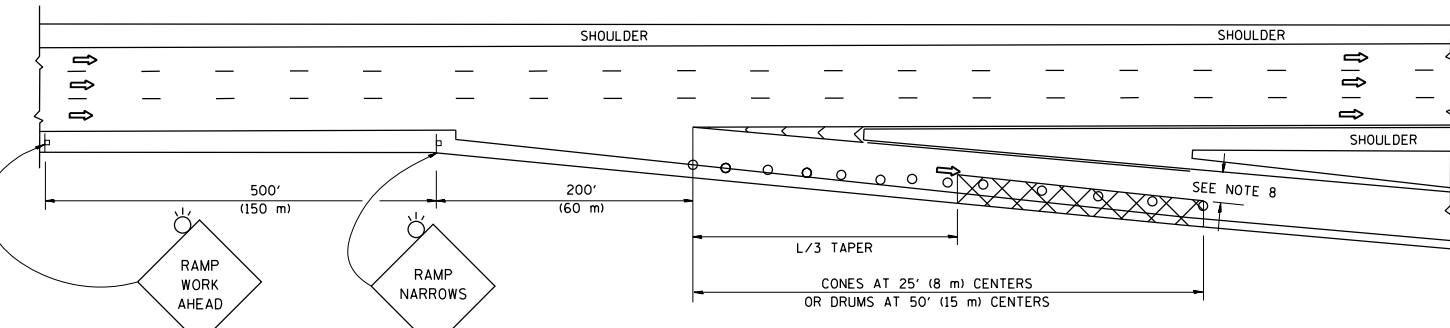
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = sornvilch	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		REVISED - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13					VAR	2017-047BP	VARIOUS	29	27
	PLOT SCALE = 100.0000' / in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16		TC-14			CONTRACT NO. 62F79				
	PLOT DATE = 10/19/2017	REVISED - T. RAMMACHER 01-06-00	REVISED -		ILLINOIS FED. AID PROJECT							

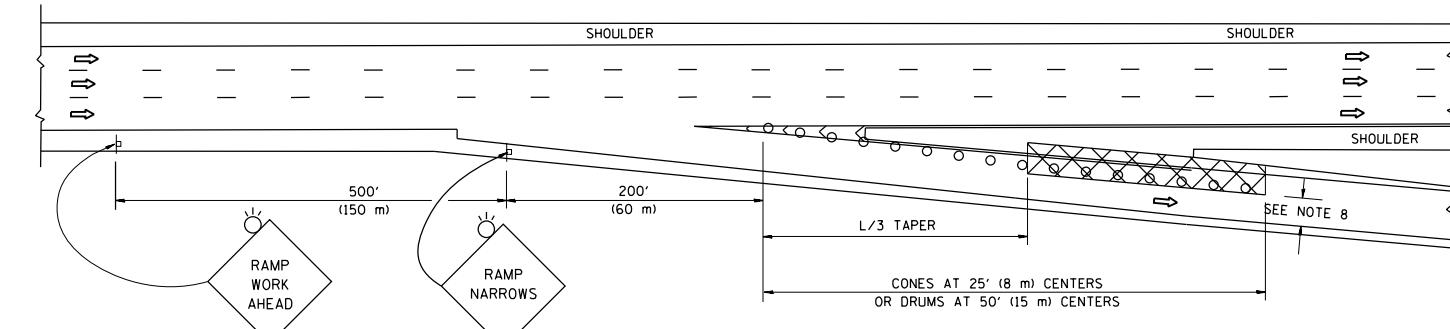
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

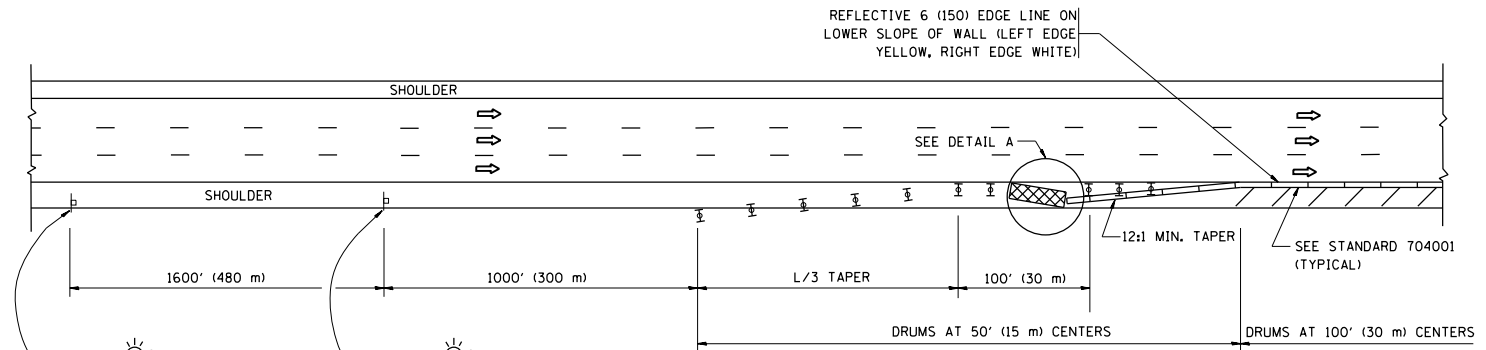
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

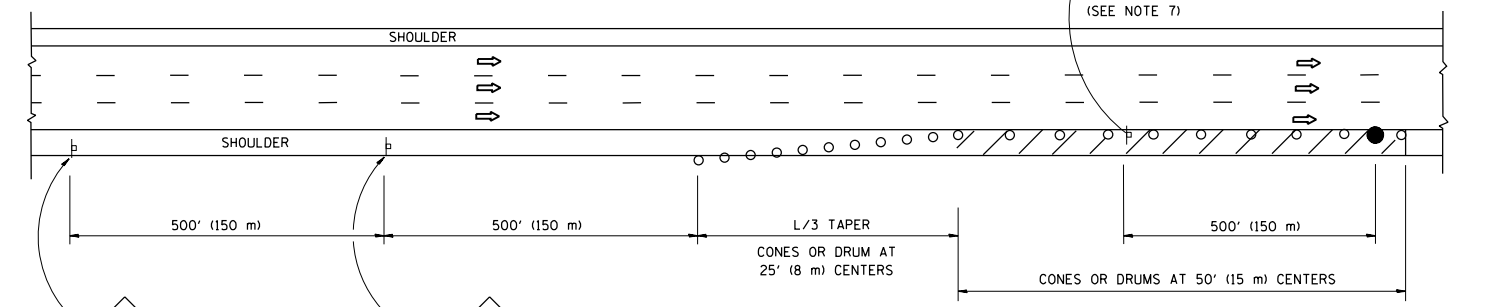
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC $L=0.65(W)(S)$ ENGLISH $L=(W)(S)$
	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

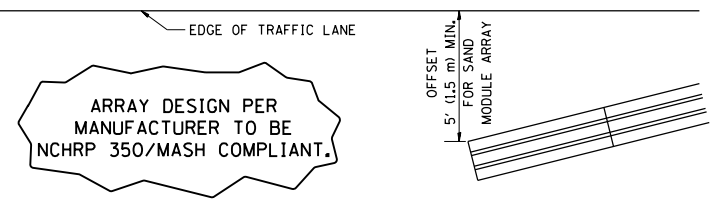


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

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

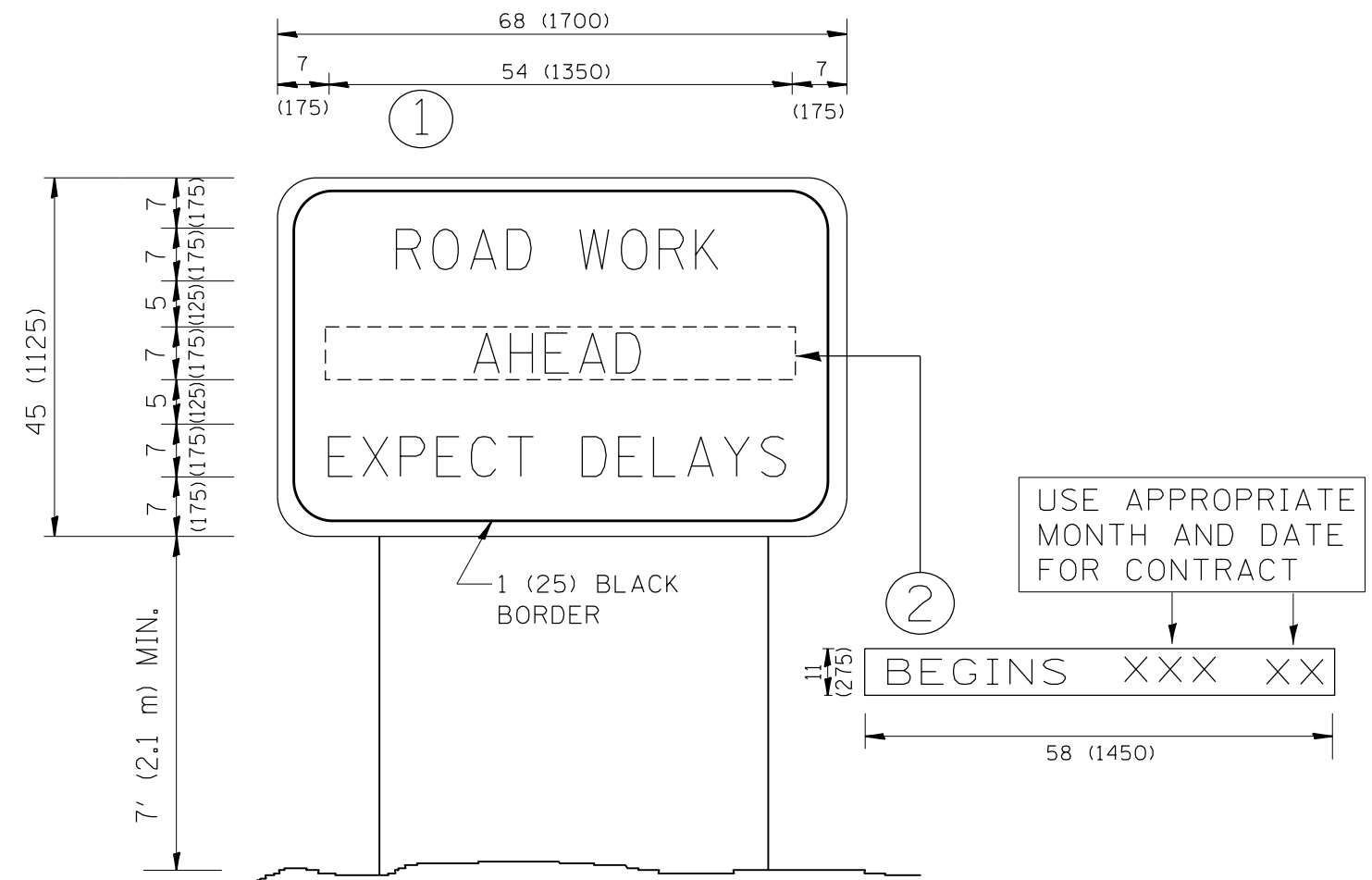


DETAIL "A"
 IMPACT ATTENUATOR, TEMPORARY
 (SEE NOTE 5)

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
 16' MIN. WIDTH CURVE SECTION.

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

FILE NAME =	USER NAME = s01nvlch	DESIGNED -	REVISED - J.A.F. 12-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\1\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\DI206\Drawings\Design\DWG\Std.dgn	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - S.P.B. 01-07					VAR	2017-047BP	VARIOUS	29	28
PLOT DATE = 10/19/2017	DATE = 11-96	REVISED - M.D. 06-13	REVISED - S.P.B. 12-09		TC-17			CONTRACT NO. 62F79				
					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 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.

FILE NAME =	USER NAME = saintwlch	DESIGNED -	REVISED - R. MIRS 09-15-97
p:\11\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI2016\BROWN\Info\Design\DistStd.dgn		CHECKED -	REVISED - R. MIRS 12-11-97
		PLOT SCALE = 100.0000' / 1in.	REVISED - T. RAMMACHER 02-02-99
		DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2017-047BP	VARIOUS	29	29
TC-22		CONTRACT NO. 62F79		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				