

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	1
ILLINOIS CONTRACT NO. 62K98				

* 59+2=61 TOTAL SHEETS

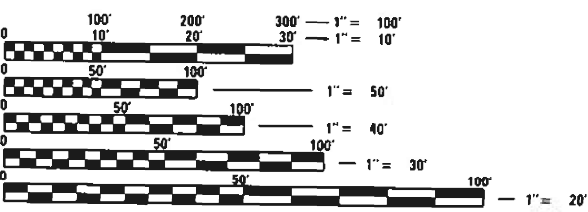
D-91-409-20

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED
HIGHWAY PLANS

ROUTE: VARIOUS
VARIOUS LOCATIONS
SECTION: 2020-027-BR&I
NOISE BARRIERS, MEDIAN BARRIERS AND BRIDGE REPAIRS
VARIOUS COUNTIES

C-91-216-20



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

G.U.A.N.
CHICAGO UTILITY ALERT NETWORK
1-312-744-7000

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



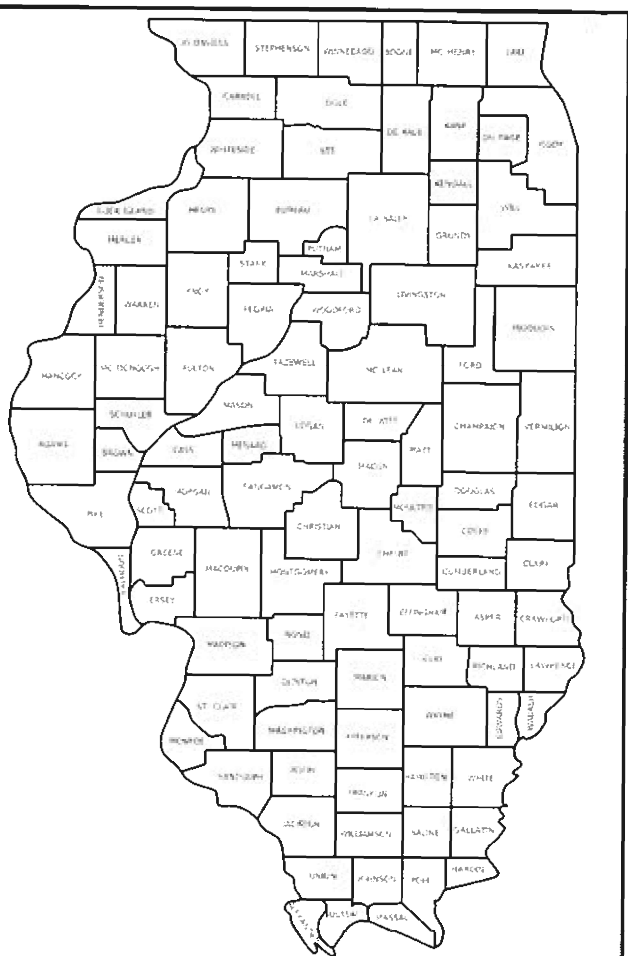
Expires 11-30-2020

David Carl Puzey

Seal applies to sheets 8-40 of 59

PROJECT MANAGER: MIDY, J. ALAIN (847) 221-3056

CONTRACT NO. 62K98



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 13, 2020

Anthony J. Puzey REGIONAL ENGINEER

May 8, 2020

Scott A. Elk ENGINEER OF DESIGN AND ENVIRONMENT

May 8, 2020

James J. Jan DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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STD NO.	DESCRIPTION
637006-04	CONCRETE BARRIER 42" HEIGHT
701101-05	OFF ROAD OPERATIONS, MULTILANE. 15' to 24" FROM PAVEMENT EDGE
701106-02	OFF ROAD OPERATIONS, MULTILANE. MORE THAN 15 FT AWAY
701400-09	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY / EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDSS >45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDSS >45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDSS <40 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY / EXPRESSWAY
701446-10	TWO LANE CLOSURE FREEWAY/EXPRESSWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NON TRAVERSABLE MEDIAN
701606-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701801-06	SIDEWALK, CORNER, OR CORSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

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REV-SEP

	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS STATE STANDARDS					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -							VAR	2020-027-BR&I	VARIOUS	59	2
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -							CONTRACT NO. 62K98				
	PLOT DATE = 4/21/2020	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS	FED. AID PROJECT	

GENERAL NOTES (BRIDGE)

THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO INSURE THAT NO DEBRIS WILL ENDANGER OR INTERFERE WITH TRAFFIC ON THE ROADWAY BENEATH THE BRIDGE ACCORDING TO ARTICLE 107.09 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPROPRIATE PAY ITEM INVOLVED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

CONCRETE SUPERSTRUCTURE SHALL HAVE A SEVEN DAY MINIMUM CURE.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM, COST INCLUDED WITH CONCRETE REMOVAL.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENT 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 UPON THE UNIT PRICE BID FOR THE WORK.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

JOINTS ARE TO BE INSTALLED TO MATCH EXISTING.

IF A GAP IN THE PARAPET IS TO OCCUR FOR ANY PERIOD OF TIME, A TEMPORARY RAILING MUST BE INSTALLED SO THAT AT NO TIME SHALL THERE BE AN OPENING IN ANY PORTION OF THE EXISTING SYSTEM. IF THE GAP IS IN A BARRIER WALL SECTION, TEMPORARY RAILING OR BARRELS SHALL BE USED AT THE DISCRETION OF THE ENGINEER.

THE CONTRACTOR SHALL SALVAGE AND RETURN THE EXISTING GUARDRAIL TO:

DISTRICT BRIDGE OFFICE
1101 BIESTERFIELD RD.
ELK GROVE VILLAGE, IL 60007
CONTACT 847-956-1444-1445

THIS WORK SHALL INCLUDE REMOVING, TRANSPORTING AND UNLOADING THE EXISTING CARRIER GUARDRAIL TO THE ABOVE YARD WHICH COST IS INCLUDED IN THE COST OF "CONCRETE REMOVAL"

THE CONTRACTOR SHALL SALVAGE AND RETURN THE EXISTING TEMPORARY BARRIER AND TEMPORARY IMPACT ATTENUATOR TO DAN RYAN MAINTENANCE YARD AT:

DAN RYAN MAINTENANCE YARD
6543 S WENTWORTH ST
CHICAGO, IL 60621

PLEASE COORDINATE WITH KEN BRANTLEY, YARD TECHNICIAN AT 773-873-3466-3467

DELIVERY BETWEEN THE HOURS OF 8 AM AND 2 PM
CONTACT: MR. KENNETH BRANTLEY AT 773-873-3466.

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

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 CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITIES OF CHICAGO AND CALUMET AND THE VILLAGES OF LEMONT, DOLTON, SUMMIT, ELGIN, HIGHLAND PARK, HINSDALE AND ADDISON.

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

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT: Kalpana.Kannan-Hosadurgo@illinois.gov (FOR ARTERIALS) AND (847)705-4151 (FOR EXPRESSWAYS) A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE.

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.

THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT " www.idotilcs.com" TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP AND SHOULDER CLOSURES AND 7 DAYS IN ADVANCE OF ALL PERMANENT AND WEEKEND CLOSURES ON ALL FREEWAYS AND/OR EXPRESSWAYS IN DISTRICT ONE. THIS ADVANCE NOTIFICATION IS CALCULATED BASED ON WORKWEEK OF MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS OR HOLIDAYS.

FOR LOCATION 23

BEFORE ANY PROPOSED WORK COMMENCES THE CONTRACTOR SHALL CONTACT THE STATE ELECTRICAL MAINTENANCE CONTRACTOR MEADE ELECTRIC COMPANY AT 773-287-7672 TO COORDINATE THE LOCATION OF THE EXISTING LIGHTING CONDUIT IN WALL AND INSTALLATION OF PROPOSED LIGHT POLE FOUNDATION. THE CONTRACTOR SHALL GIVE MEADE ELECTRIC COMPANY AT LIST A 24 HOUR NOTICE BEFORE ANY WORK STARTS.

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						ILLINOIS	FED. AID PROJECT					

SUMMARY OF QUANTITIES					URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 0013				
CODE NO	ITEM	UNIT	100 % STATE 0013							
20200100	EARTH EXCAVATION	CU YD	31.7	31.7						
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	29.4	29.4						
25000210	SEEDING, CLASS 2A	ACRE	0.02	0.02						
28001100	TEMPORARY EROSION CONTROL BLANKET	SO YD	155.5	155.5						
44213200	SAW CUTS	FOOT	118	118						
44213202	TIE BARS 1"	EACH	212	212						
50102400	CONCRETE REMOVAL	CU YD	38.87	38.87						
50104000	BRIDGE RAIL REMOVAL	FOOT	60.6	60.6						
50300225	CONCRETE STRUCTURES	CU YD	39.8	39.8						
50300255	CONCRETE SUPERSTRUCTURE	CU YD	2.87	2.87						
50300300	PROTECTIVE COAT	SO YD	150	150						
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1174	1174						
50800530	MECHANICAL SPLICERS	EACH	60	60						
50900105	ALUMINUM RAILING, TYPE L	FOOT	9.1	9.1						
50901730	BRIDGE FENCE RAILING	FOOT	30	30						
50901750	PARAPET RAILING	FOOT	51.5	51.5						

SUMMARY OF QUANTITIES					URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 0013				
CODE NO	ITEM	UNIT	100 % STATE 0013							
52200020	TEMPORARY SOIL RETENTION SYSTEM	SO FT	54	54						
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	1	1						
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9						
67100100	MOBILIZATION	L SUM	1	1						
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1						
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1						
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1						
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1						
X0320012	REMOVE TEMPORARY IMPACT ATTENUATORS, STATE OWNED	EACH	2	2						
X0321750	REMOVE TEMPORARY CONCRETE BARRIER, STATE OWNED	FOOT	295.5	295.5						
X0326791	NOISE ABATEMENT WALL REPAIRS	L SUM	1	1						
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1						
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	462.6	462.6						
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1						
X1400428	MEDIAN BARRIER GATE SYSTEM	EACH	2	2						

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.
RTE.
VAR

SECTION
2020-027-BR&I

COUNTY
VARIOUS

TOTAL
SHEETS
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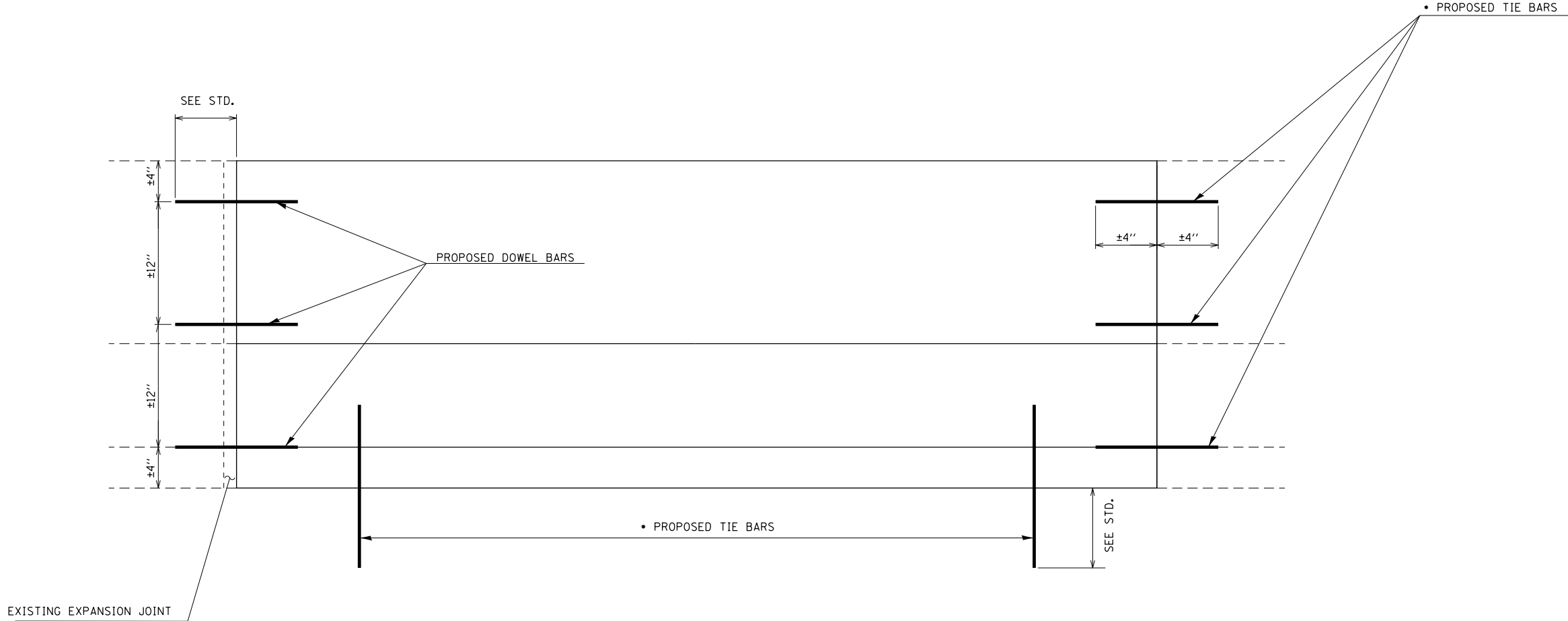
SHEET
NO.
59

CONTRACT NO. 62K98

REV-SEP

REV-SEP

SCHEDULE OF QUANTITIES				COOK COUNTY																									
	LEMONT RD OVER DES PLAINES RIVER SN 016-2504		111th ST OVER I-57 SN 016-0989		KEDZIE AVE AT 73rd ST SN 016-0761			I-94 NB OVER LITTLE CALUMET RIVER SN 016-0159		I-90/94 NB LOCALS OVER CHINATOWN FEEDER SN 016-1118A & 016-1118B				IL 171 OVER IHB RR SN 016-2607		I-90 /94													
	AT 57 ST	AT 53 ST	AT 68 ST	AT 29 ST	AT 29 ST	AT 30 ST	AT 68 ST	AT DOLTON AVE		0.5 MILE N OF DOLTON AVE																			
LOCATION	1		2		3			4A	4B	5A	5B			6		7A	7B	8	9	23	10	11	12A		12B				
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAY)								X	X	X	X					X	X	X	X	X	X	X	X		X				
NIGHTTIME WORK ZONE LIGHTING								X	X	X	X					X	X	X	X	X	X	X	X		X				
TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	X																												
TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	X		X		X									X															
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801			X		X									X															
RAILROAD PROTECTIVE LIABILITY INSURANCE										X				X															
TC-22	X		X		X									X															
TC-14	X																												
				COOK COUNTY										KANE COUNTY				LAKE COUNTY			DU PAGE COUNTY								
	I-94 SB OVER N OF 130th ST		I-55 SB AT CALIFORNIA AVE			I-55 SB AT LOOMIS ST		I-290 AT CENTRAL AVE		I-290 AT I-88	US20 AT GRACE ST			US20 AT POPLAR CREEK		US41 AT CLAVEY RD			IL 83	US20	I-355								
LOCATION	13		14			15		16		24	17			18		19			20	21	22								
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAY)	X		X			X		X		X						X					X								
NIGHTTIME WORK ZONE LIGHTING	X		X			X		X		X						X					X								
TRAFFIC CONTROL AND PROTECTION, STANDARD 701601											X			X					X	X									
TRAFFIC CONTROL AND PROTECTION, STANDARD 701606																													
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801																													
TRAFFIC CONTROL AND PROTECTION, STANDARD 701411																			X										
TRAFFIC CONTROL AND PROTECTION, STANDARD 701421											X			X					X										
TC-22											X			X					X	X	X								
TC-17			X			X																							
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FULL DEPTH REPAIR

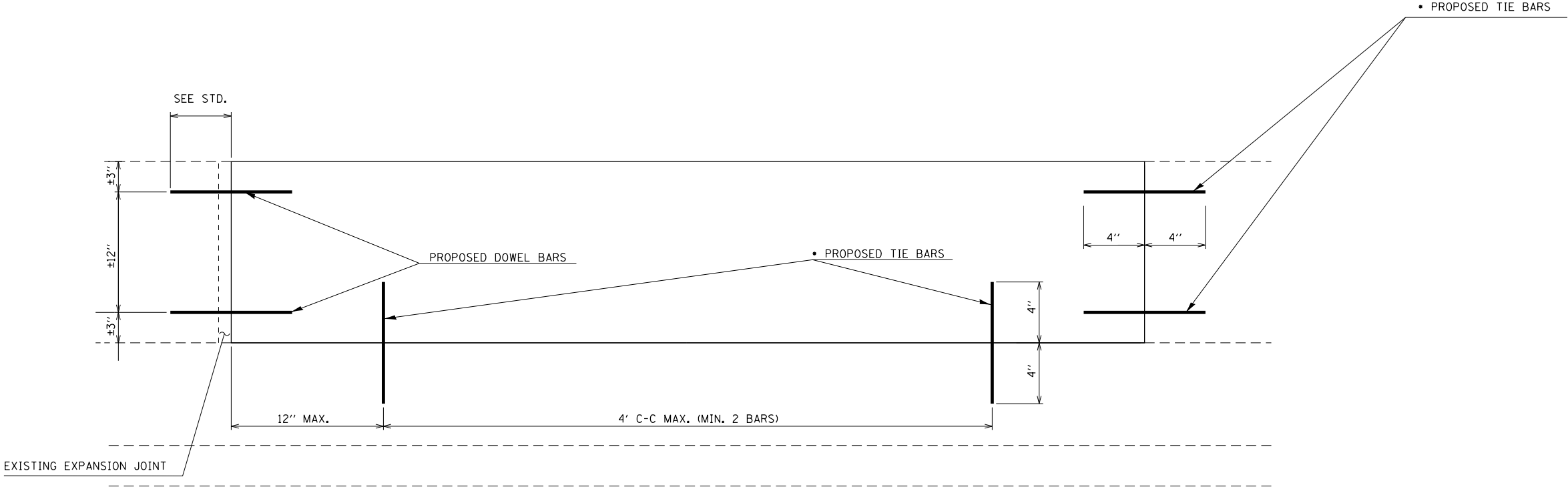
NOTE:

ALL BARRIER WALL REPAIR SHALL BE COMPLETED IN ACCORDANCE WITH STATE STANDARDS 637001 AND 637006 AND SECTION 637 OF THE STANDARD SPECIFICATIONS AND AS SHOWN ON THE PLANS. ALL PROPOSED DOWEL BARS AND TIE BARS SHALL BE DRILLED AND GROUTED IN PLACE. REINFORCEMENT SHALL BE INCLUDED AS SHOWN IN STANDARD 637006 AND DESCRIBED IN SECTION 637 OF THE STANDARD SPECIFICATIONS EXCEPT WHEN A REINFORCEMENT CAGE IS ENCOUNTERED. IN SUCH A CASE, THE CONTRACTOR SHALL REMOVE THE DAMAGED PORTIONS OF THE CAGE AND SHALL REPLACE IT WITH BARS OF THE SAME SIZE AND SPACING. THE SCOPE OF REPAIR AT EACH LOCATION SHALL BE AS SHOWN ON THE PLANS AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

- USE #8 EPOXY-COATED TIE BARS, CONFORMING TO ART. 1006.10 OF THE STANDARD SPECIFICATIONS, FOR ALL TIE BARS.

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HALF DEPTH REPAIR

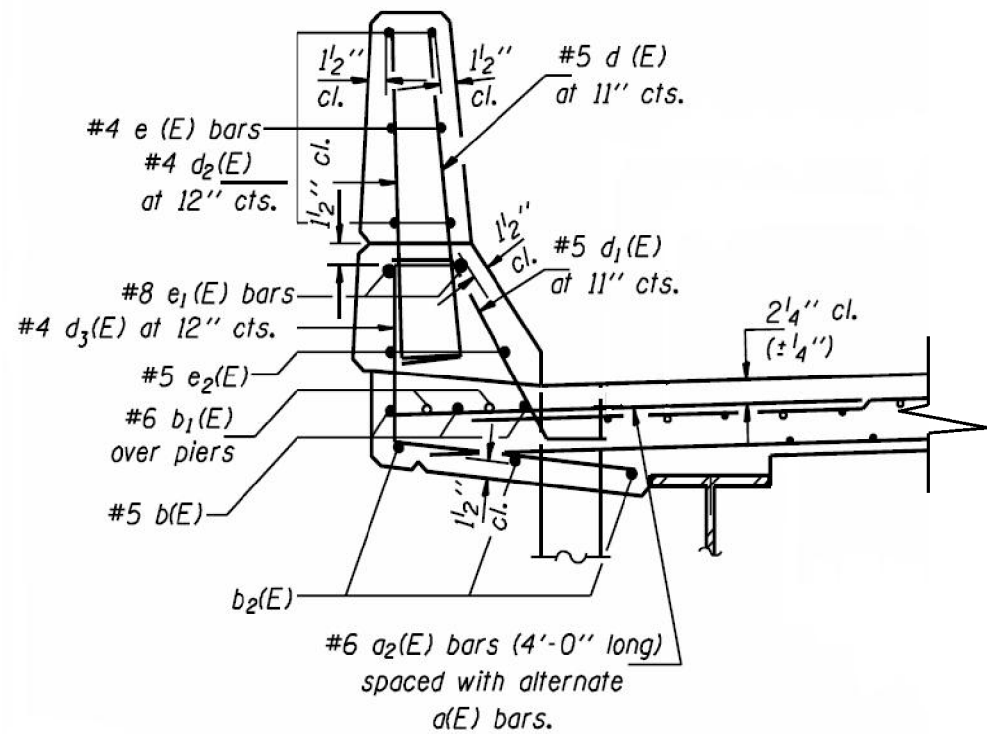
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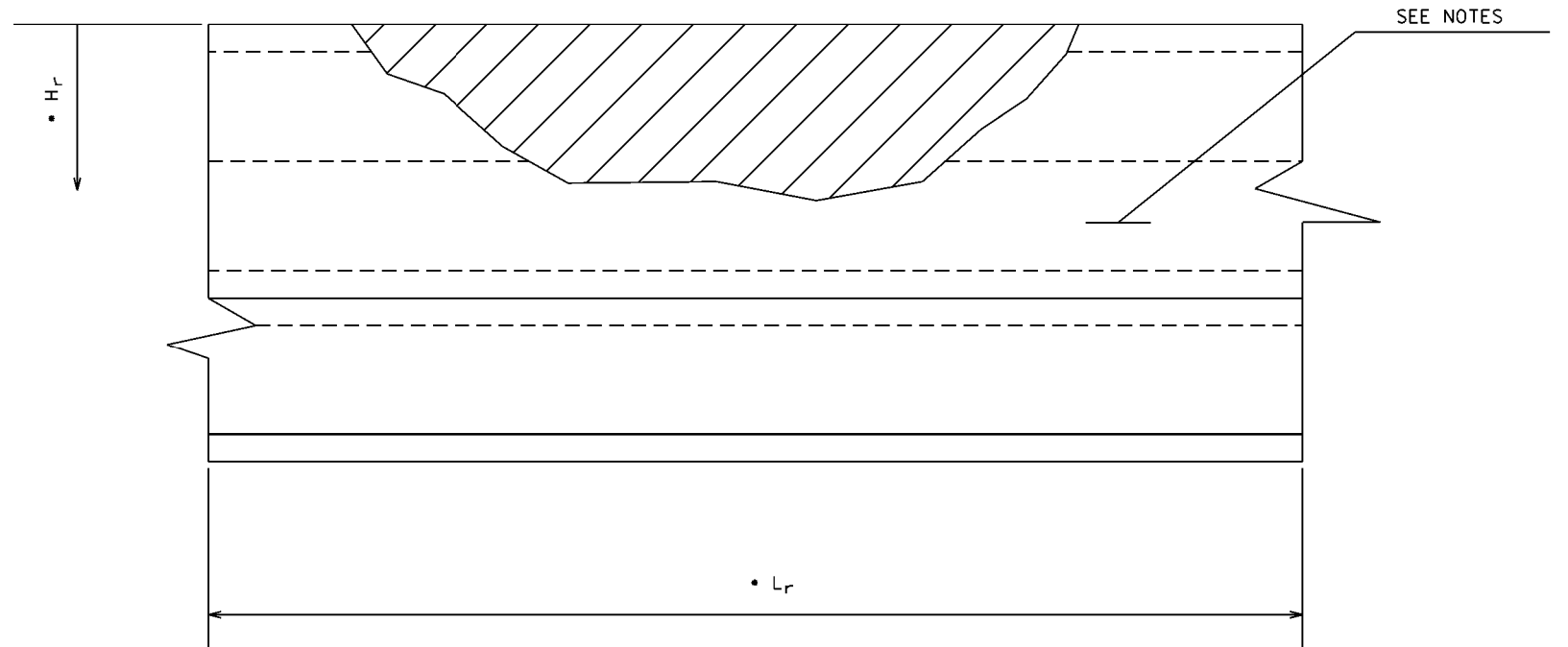
* USE #8 EPOXY-COATED TIE BARS, CONFORMING TO ART. 1006.10 OF THE STANDARD SPECIFICATIONS, FOR ALL TIE BARS.

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	USER NAME = midyja	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL REPAIR FOR HALF DEPTH (BARRIER WALL)		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -				VAR	2020-027-BR&I	VARUIOS	59	7
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SCALE:		SHEET	OF	SHEETS	STA.	TO STA.					



SECTION THRU PARAPET



FRONT FACE OF PARAPET

NOTE:

CONCRETE REMOVAL SHALL EXTEND A MINIMUM OF 6" PAST DAMAGE OR TO JOINT IF WITHIN 2'-0".

EXISTING BARS TO BE CLEANED, STRAIGHTENED AND INCORPORATED IN NEW CONSTRUCTION.

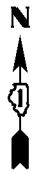
IF EXISTING VERTICAL REBAR IS MISSING, BARS d(E) AND d²(E) SHALL BE STRAIGHTENED AND EPOXY GROUTED INTO EXISTING CONCRETE 9" DEEP. COST SHALL BE INCLUDED IN "CONCRETE REMOVAL".

BARS TO BE EPOXY GROUTED ACCORDING TO ART. 584 OF THE STANDARD SPECIFICATIONS.

- H_r AND L_r INDICATE DIMENSIONS FOR CONCRETE REMOVAL. PERIMETERS OF CONCRETE REMOVAL AREAS SHALL BE SAW CUT 3/4" PRIOR TO REMOVAL OF CONCRETE.

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Sheet: 59 of 8
Date: 3/26/2020
User: gorenautab

	USER NAME = gorenautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL BRIDGE PARAPET REPAIR DETAILS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						VAR	2020-027-BR&I	VARIOUS	59	8
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -						CONTRACT NO. 62K98				
	PLOT DATE = 3/26/2020	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



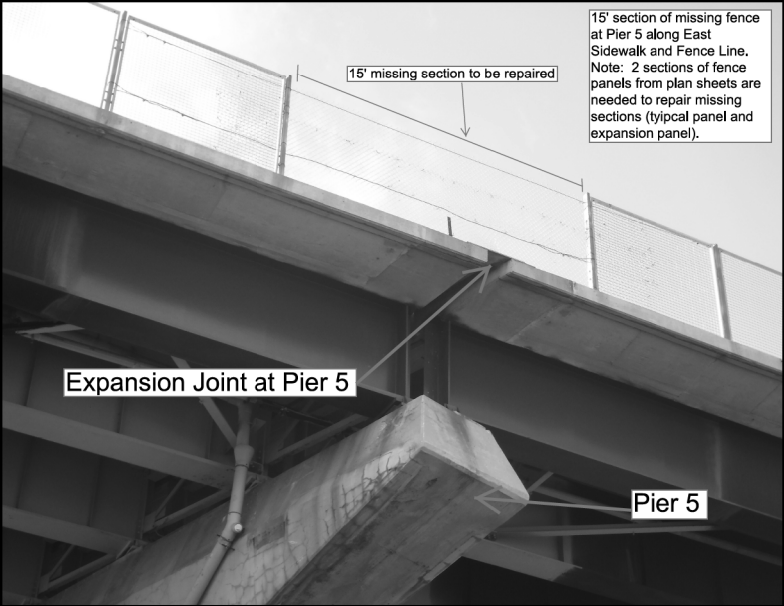
R 11 E

T 37 N

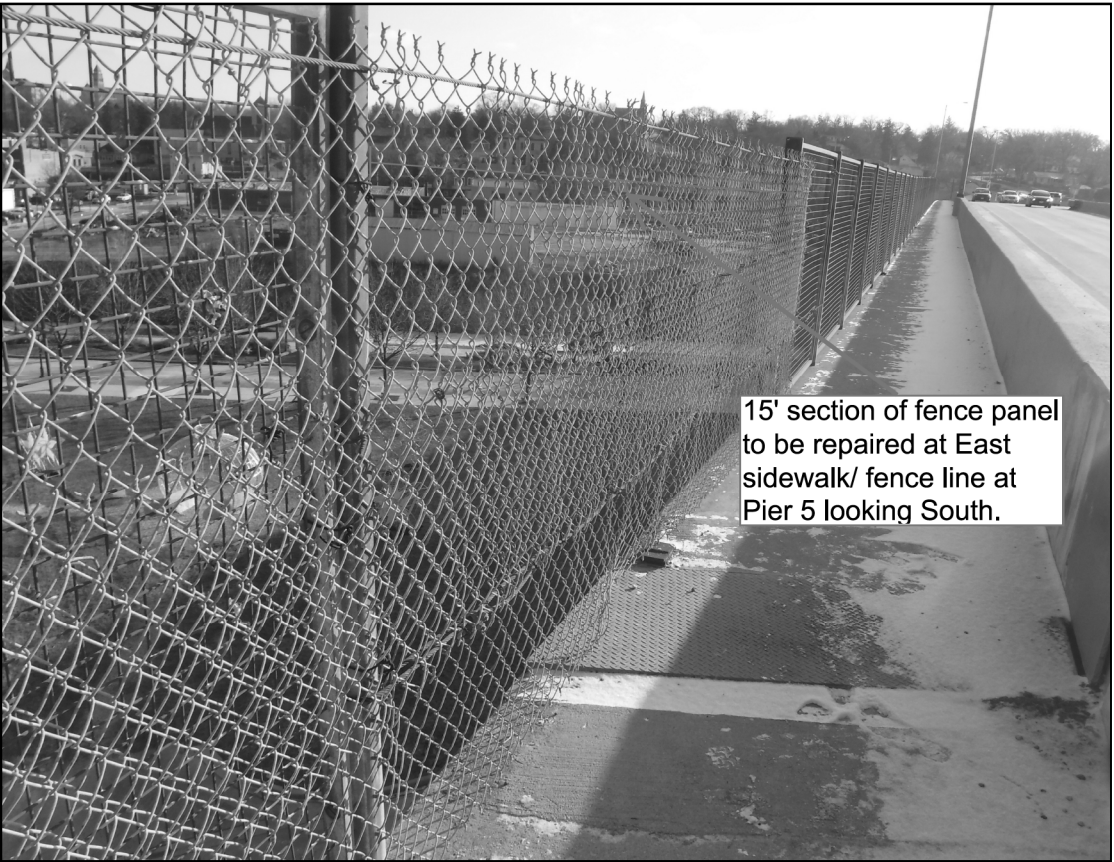


LOCATION 1.
LEMONT RD OVER
DES PLAINES
RIVER SN 016-2504

VILLAGE OF LEMONT
LEMONT TOWNSHIP, COOK COUNTY



15' section of missing fence
at Pier 5 along East
Sidewalk and Fence Line.
Note: 2 sections of fence
panels from plan sheets are
needed to repair missing
sections (typical panel and
expansion panel).



15' section of fence panel
to be repaired at East
sidewalk/ fence line at
Pier 5 looking South.

REPLACE 15 FT OF PROTECTION SCREEN
SEE SHEET #4 FOR DETAILS

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
BRIDGE FENCE RAILING	FOOT	15

TRAFFIC DATA

LEMONT RD
2018 ADT = 23300
SPEED LIMIT = 45 MPH

NOTE:
TO SECURE THE FENCE, CONTRACTOR SHALL DRILL AND SET 5/8" DIA ANCHOR RODS
ACCORDING TO ARTICLE 509.06 OF THE STANDARD SPECIFICATIONS. EMBEDMENT
SHALL BE ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. COST INCLUDED
IN BRIDGE FENCE RAILING.

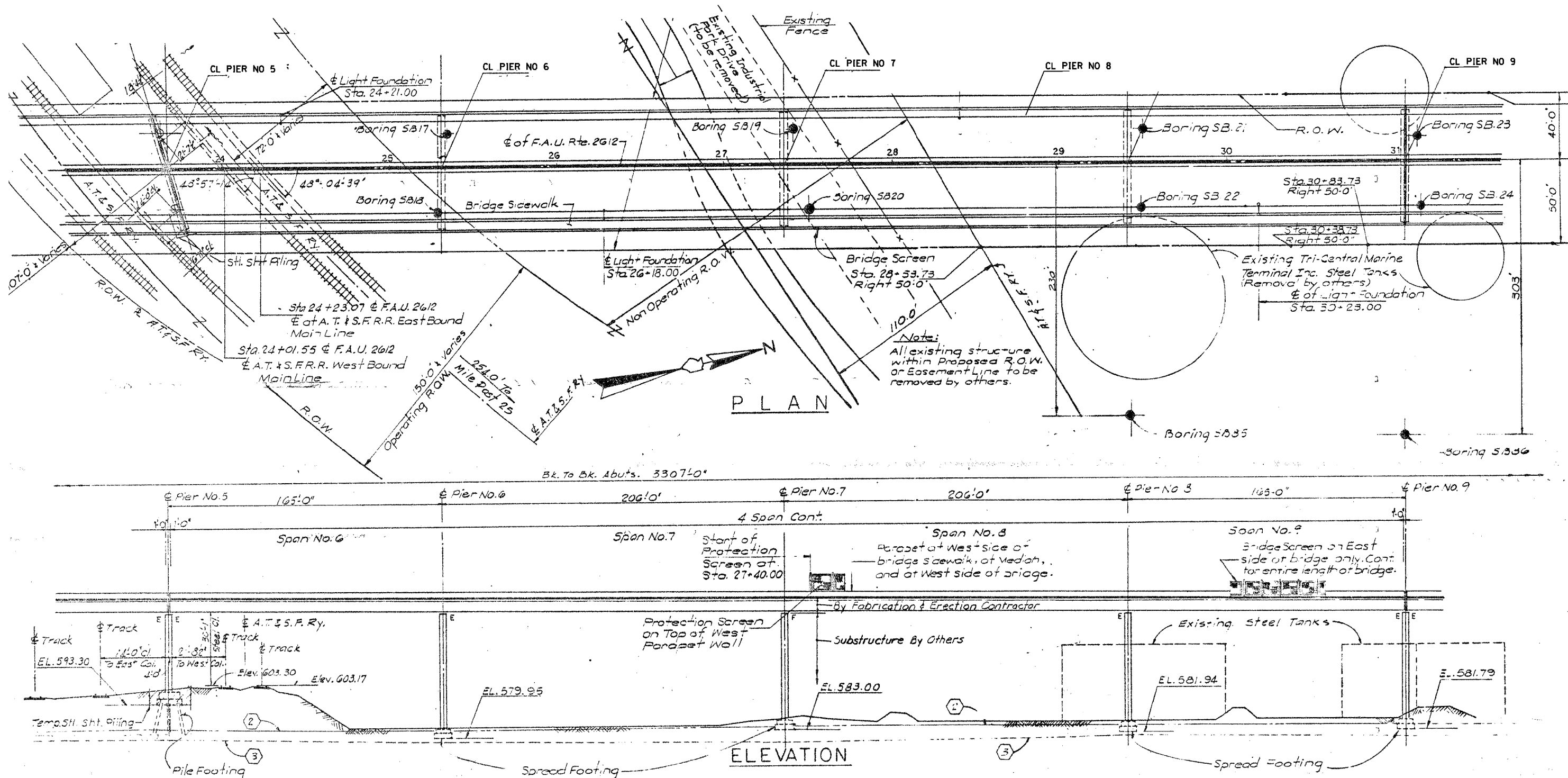
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	DRAWN -	REVISED -
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PLOT DATE = 4/21/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 1 (SN016-2504) LEMONT RD OVER DES PLAINES RIVER			
SCALE:	SHEET 1 OF 4 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	9
				CONTRACT NO. 62K98
				ILLINOIS FED. AID PROJECT



FOR INFORMATION ONLY

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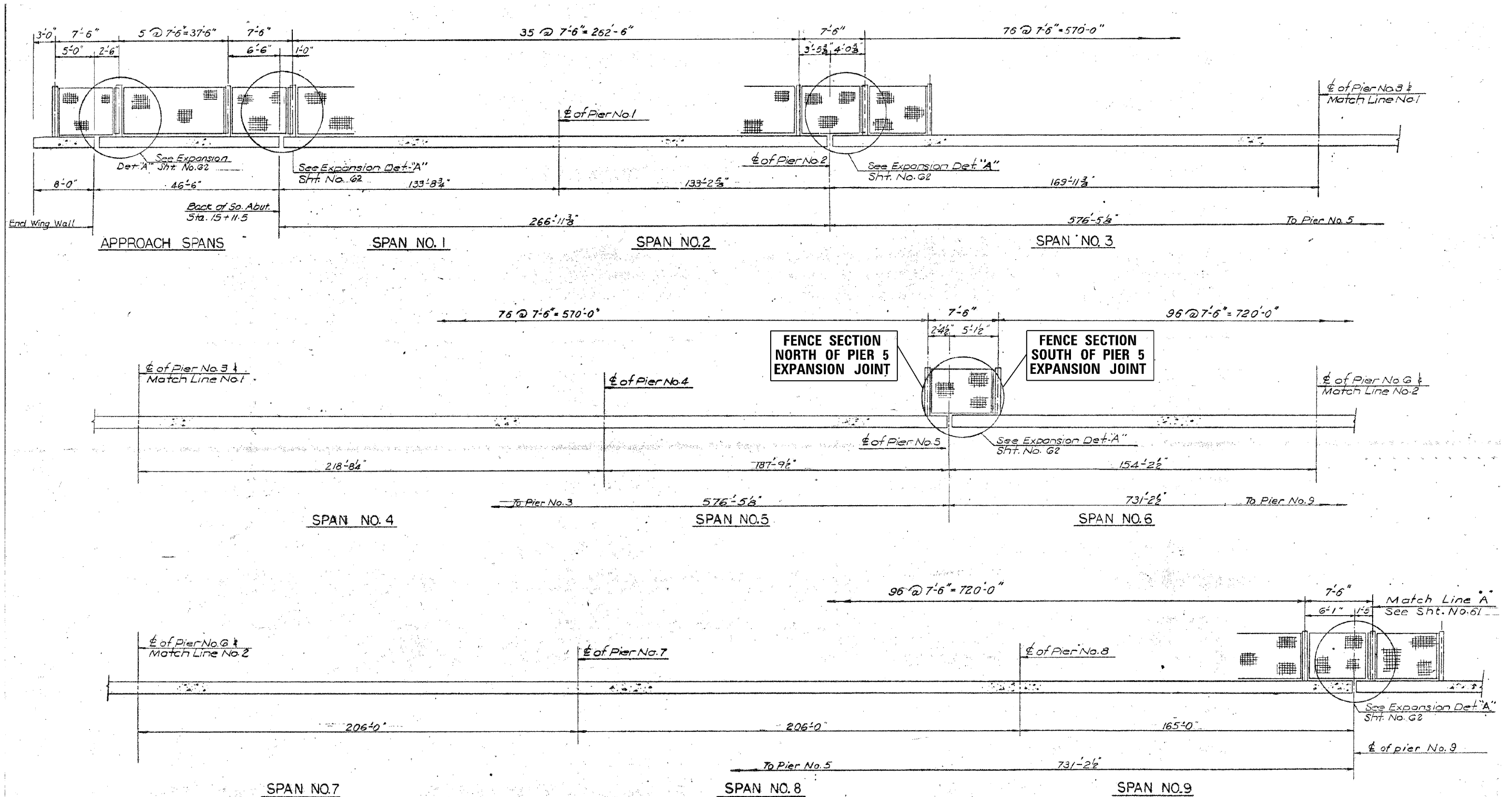
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PLOT DATE = 3/26/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 1 (SN 016-2504)
LEMONT RD OVER DES PLAINES RIVER, PIER 5 TO 9 PLAN**

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	10
				CONTRACT NO. 62K98
ILLINOIS FED. AID PROJECT				



NOTES

1. Dimensions Shown Are At 50'F Along C Of Bridge Screens
2. Bridge Screen Panels, Posts, and accessories Shall be Galvanized (2oz. per sq. ft. of surface, min.), See special provisions for Bridge Screen.

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 1 (SN016-2504)
LEMONT RD OVER DES PLAINES RIVER. BRIDGE SCREEN SPANS

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	11
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				

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CITY OF CHICAGO
LAKE TOWNSHIP, COOK COUNTY

TRAFFIC DATA

I-57
2018 ADT = 126000
SPEED LIMIT = 55 MPH

111th St
2018 ADT = 10550
SPEED LIMIT = 30 MPH



REPLACE 50 FT OF BRIDGE FENCE RAILING
SEE SHEET #4 FOR DETAILS

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
BRIDGE FENCE RAILING	FOOT	15

RESIDENT ENGINEER (TECHNICIAN) SHALL DETERMINE IF LANE / SHOULDER CLOSURES ON I-57 ARE NEEDED TO COMPLETE REPAIRS

Note:
To secure the fence, Contractor shall drill and set 5/8" Dia anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications. Cost included in Bridge Fence Railing

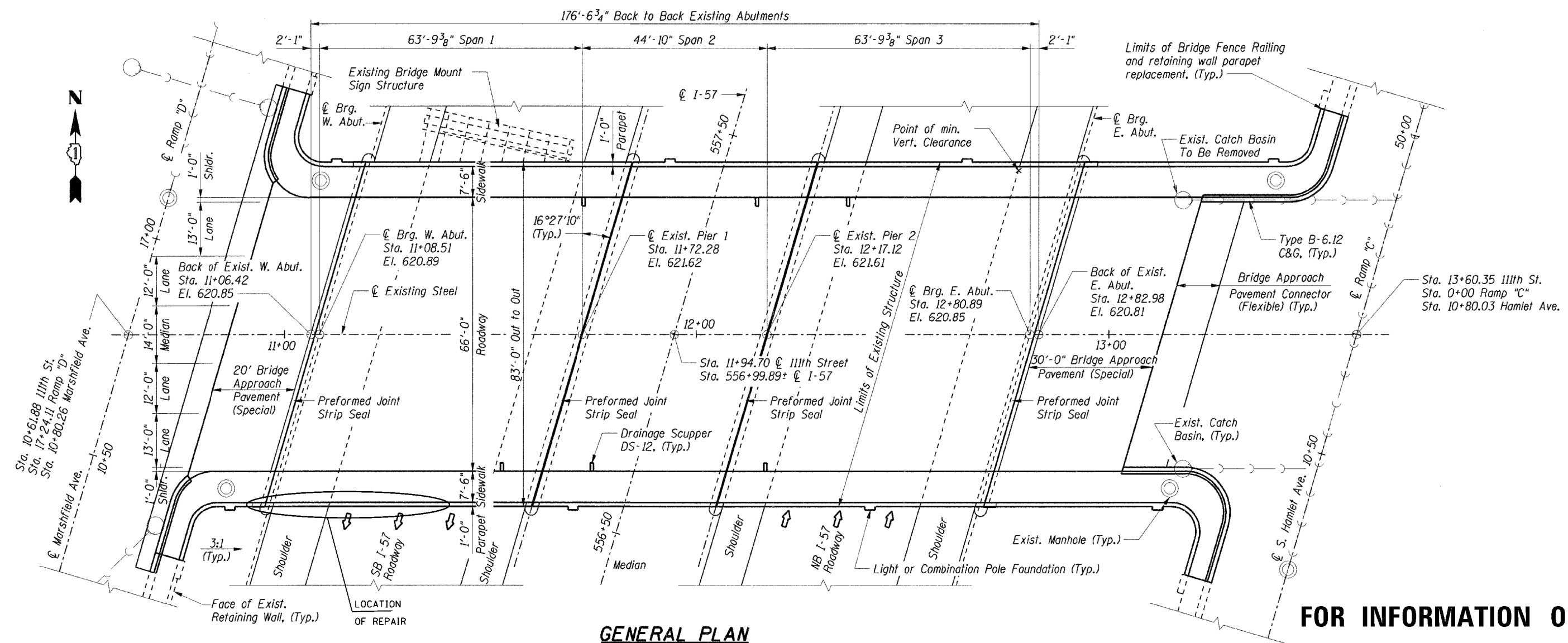
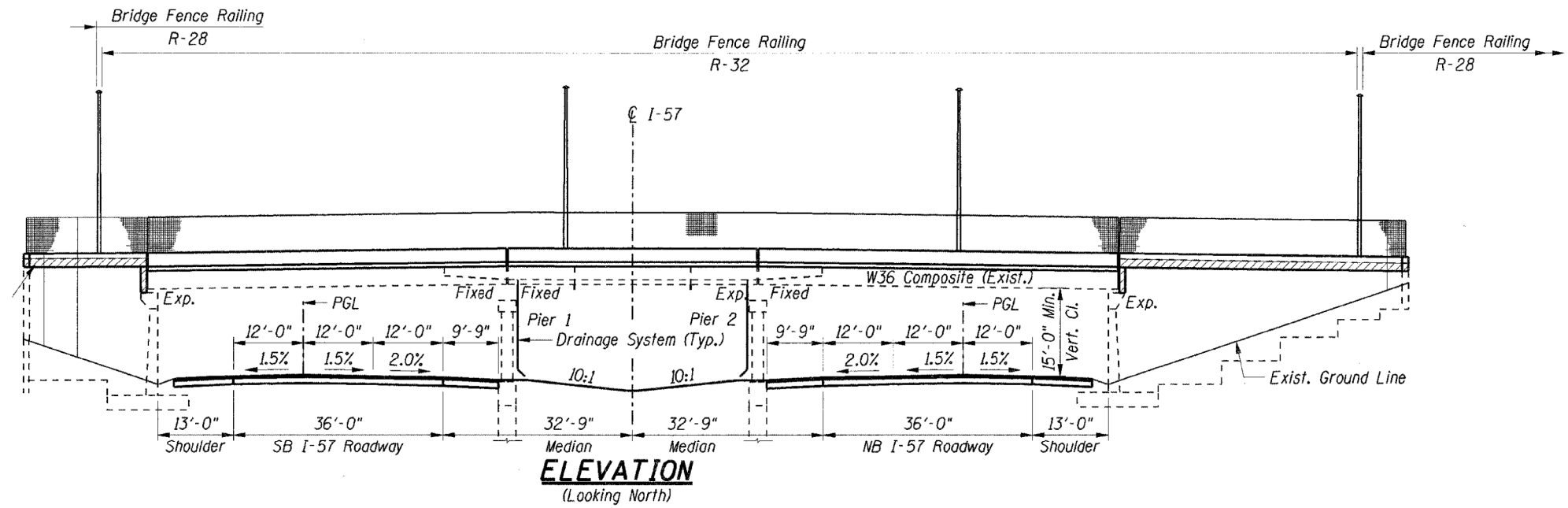
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DRAWN -	REVISED -	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 2. SN 016-0989
111th ST OVER I-57

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VBAR	2020-027-BR&I	VARIOUS	59	13
				CONTRACT NO. 62K98
		ILLINOIS	FED. AID PROJECT	



FOR INFORMATION ONLY

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DESIGN: 111th St. over I-57 - Plan.dgn
DATE: 3/26/2020

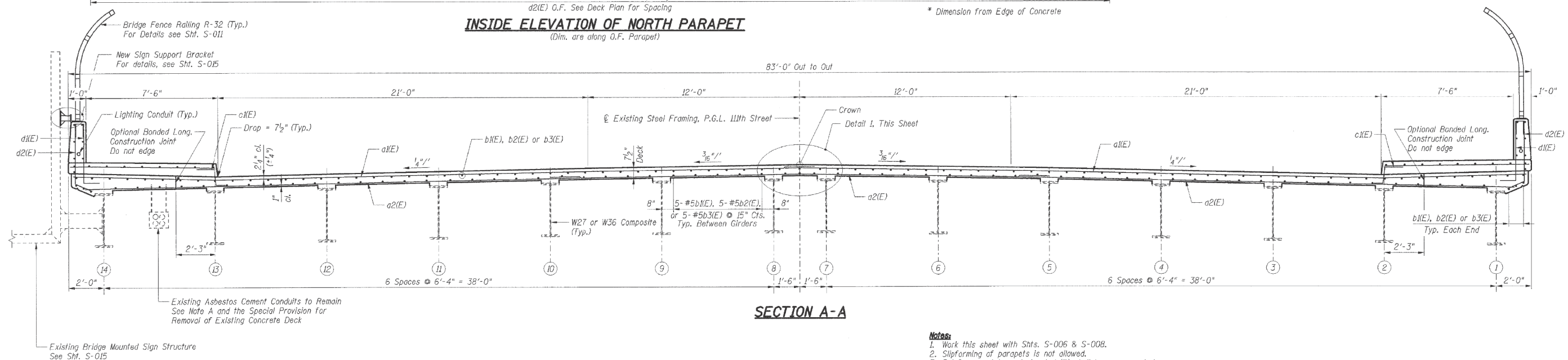
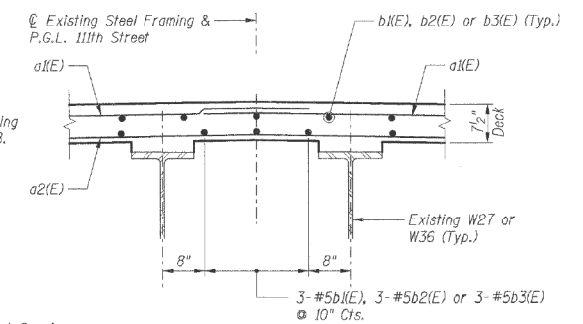
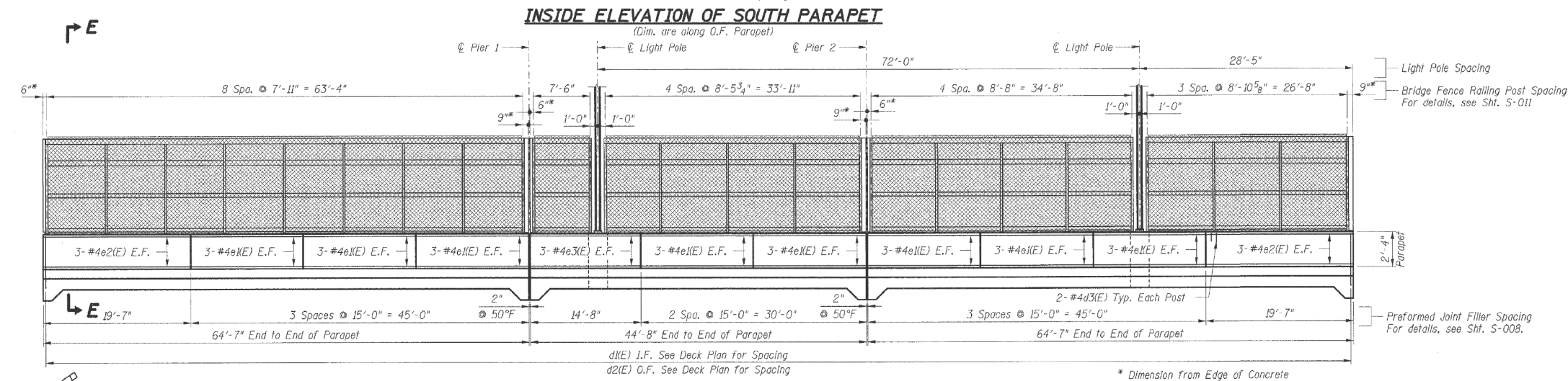
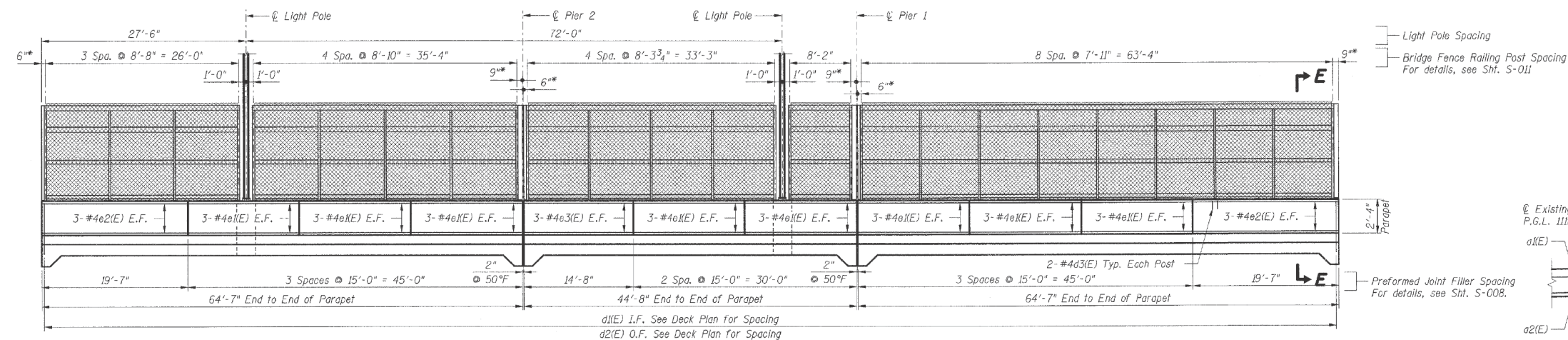
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DRAWN -	REVISOR -	
CHECKED -	REVISOR -	
DATE -	REVISOR -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 2. SN 016-0989
111th ST OVER I-57. PLAN AND ELEVATION**

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	14
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				



SECTION A-A

- Notes:**
1. Work this sheet with Shts. S-006 & S-008.
 2. Slipforming of parapets is not allowed.
 3. Reinforcement bars designated (E) shall be epoxy coated.
 4. Bars indicated thus 30 x 2-#5 etc. indicates 30 lines of bars with 2 lengths per line.
 5. E.F. indicates Each Face
I.F. indicates Inside Face
O.F. indicates Outside Face

FOR INFORMATION ONLY

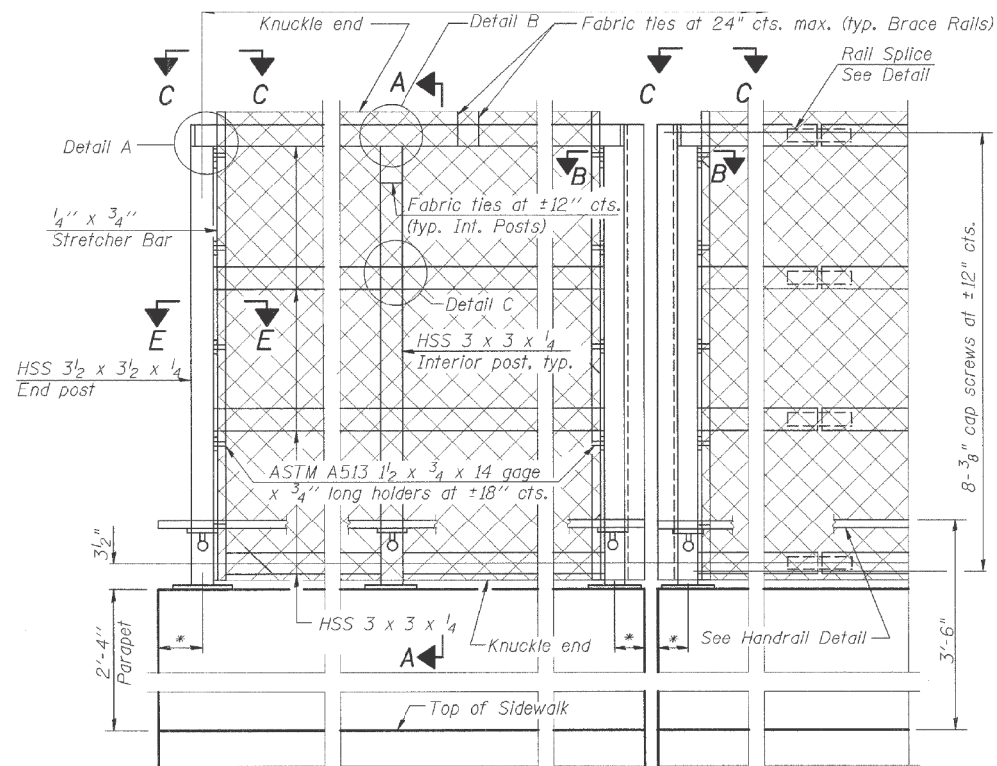
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PLOT DATE = 3/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

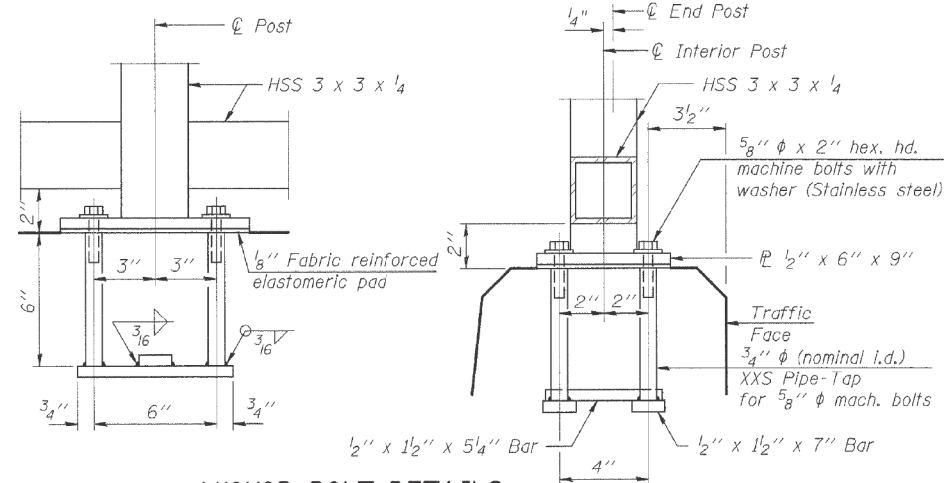
LOCATION 2. SN 016-0989
111th ST OVER I-57. ELEVATION OF PARAPET

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIGUIS	59	15
		CONTRACT NO. 62K98		
		ILLINOIS	FED. AID PROJECT	

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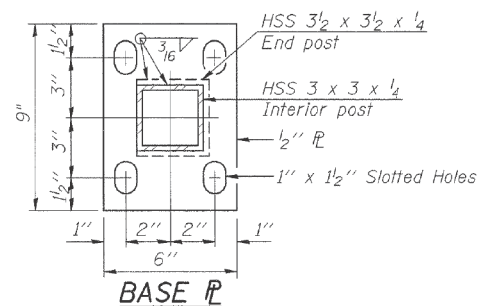


ELEVATION
(Inside Face)



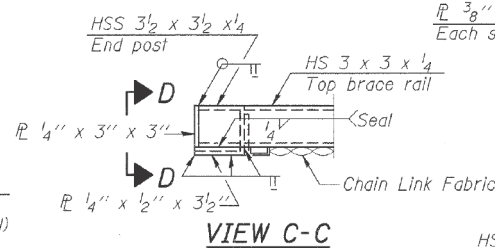
ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting $\frac{3}{8}$ " ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

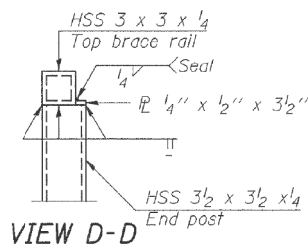


BASE P
(Handrail)

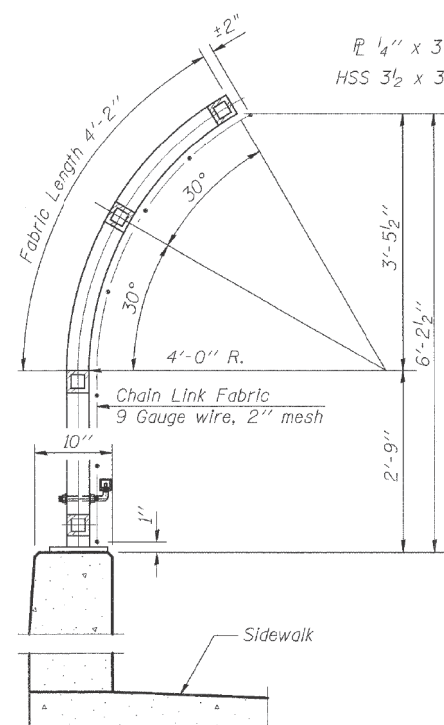
SECTION A-A



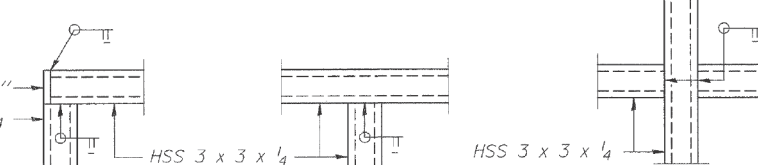
VIEW C-C



VIEW D-D

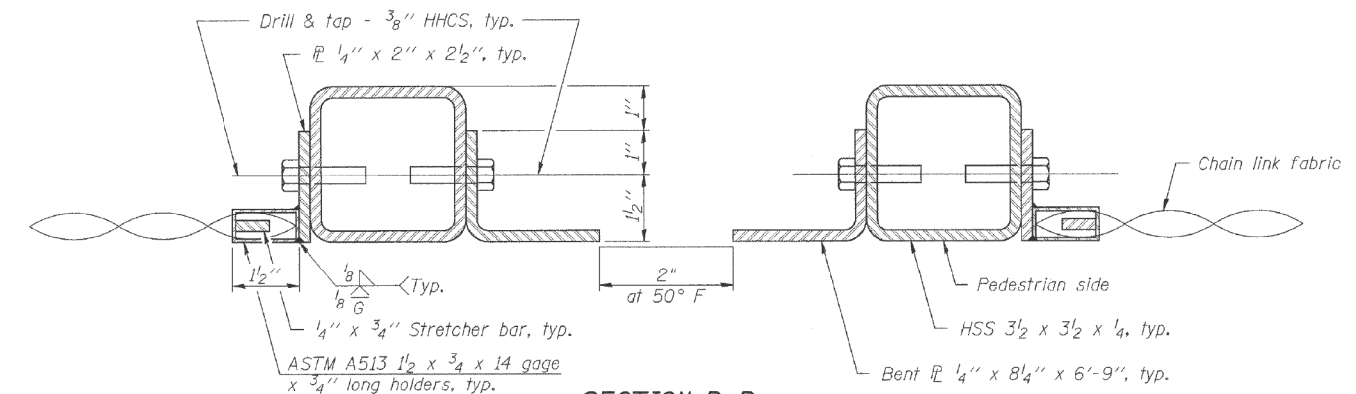


DETAIL A

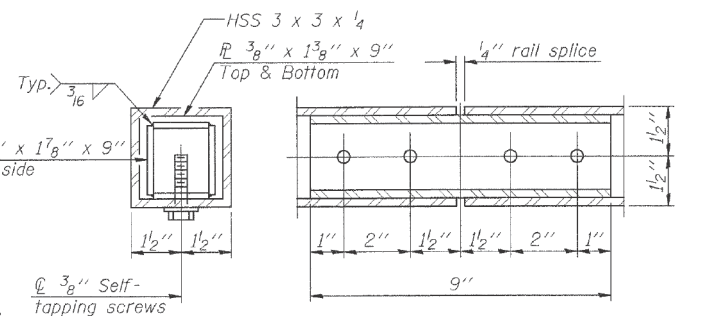


DETAIL B

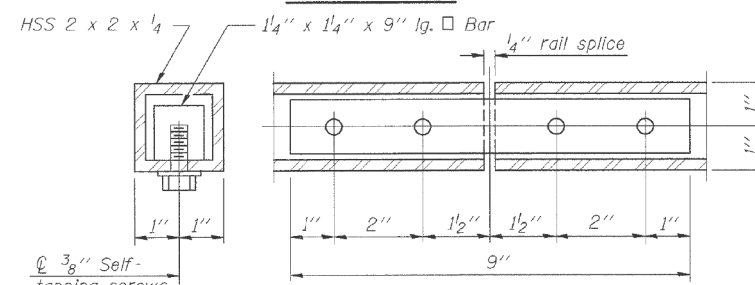
DETAIL C



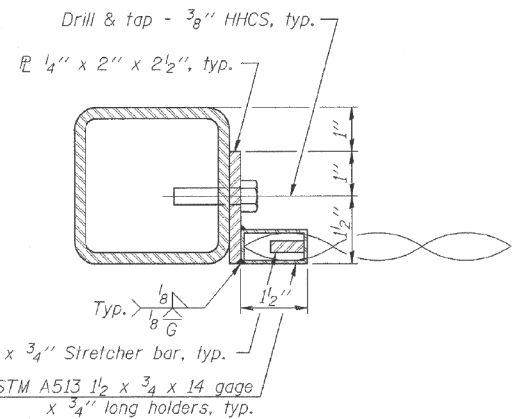
SECTION B-B
(At Expansion Joint)



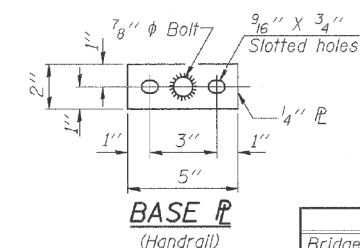
RAIL SPLICE



HANDRAIL SPLICE



SECTION E-E



BASE P
(Handrail)

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing	Foot	50

FOR INFORMATION ONLY

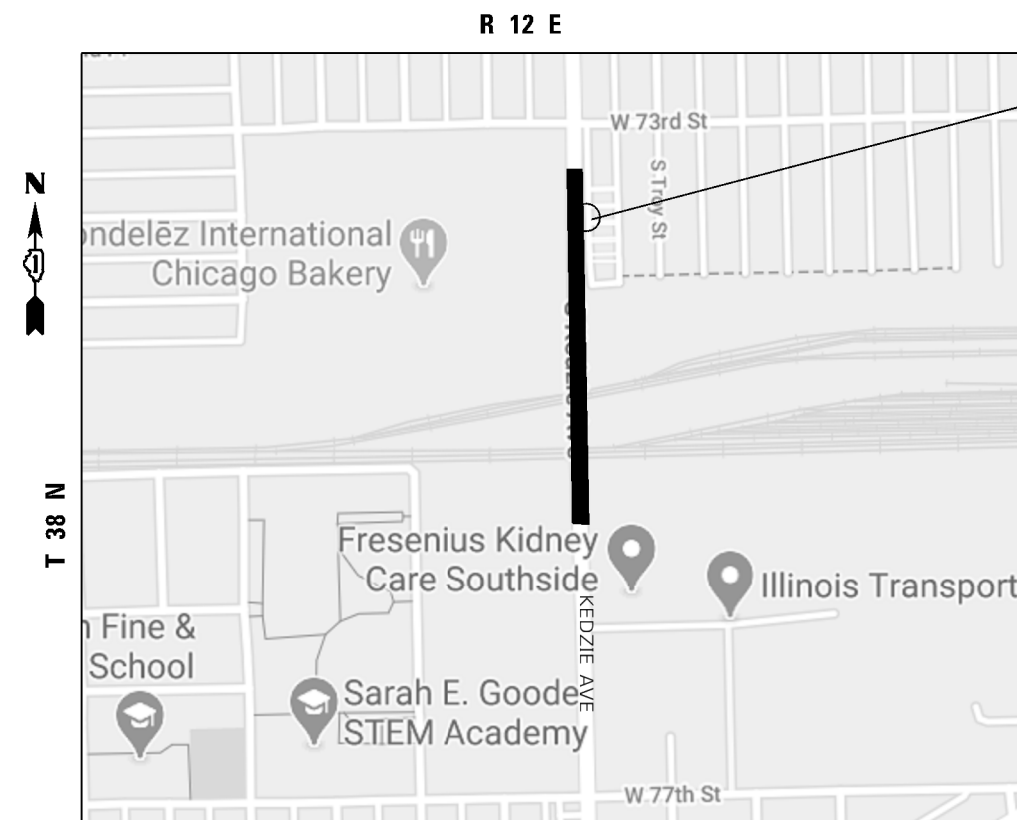
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PLOT DATE = 3/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 2. SN 016-0989
11th ST OVER I-57. BRIDGE FENCE RAILING

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	16
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				



BILL OF MATERIALS				
BAR	SIZE	LENGTH	SHAPE	QUANTITY
⊖ (E)	# 4	8'-9"	—	6
⊍ (E)	# 4	2'-0"	⊍	2
REINFORCEMENT BARS EPOXY COATED			LBS	38.0
CONCRETE SUPERSTRUCTURE			CU. YDS	1.0
CONCRETE REMOVAL			CU. YDS	1.0
PROTECTIVE COAT			SQ. YDS	3.0
SAW CUT			FOOT	3.5
BRIDGE RAIL REMOVAL			FOOT	9.1
ALUMINUM RAILING , TYPE L			FOOT	9.1
MECHANICAL SPLICERS			EACH	12

**PARTIAL DEPTH PARAPET REPAIR
REPLACE APPROXIMATELY 9"-1" OF PARAPET
LOCATED AT KEDZIE AVE JUST SOUTH OF W.73rd ST
EAST SIDEWALK**

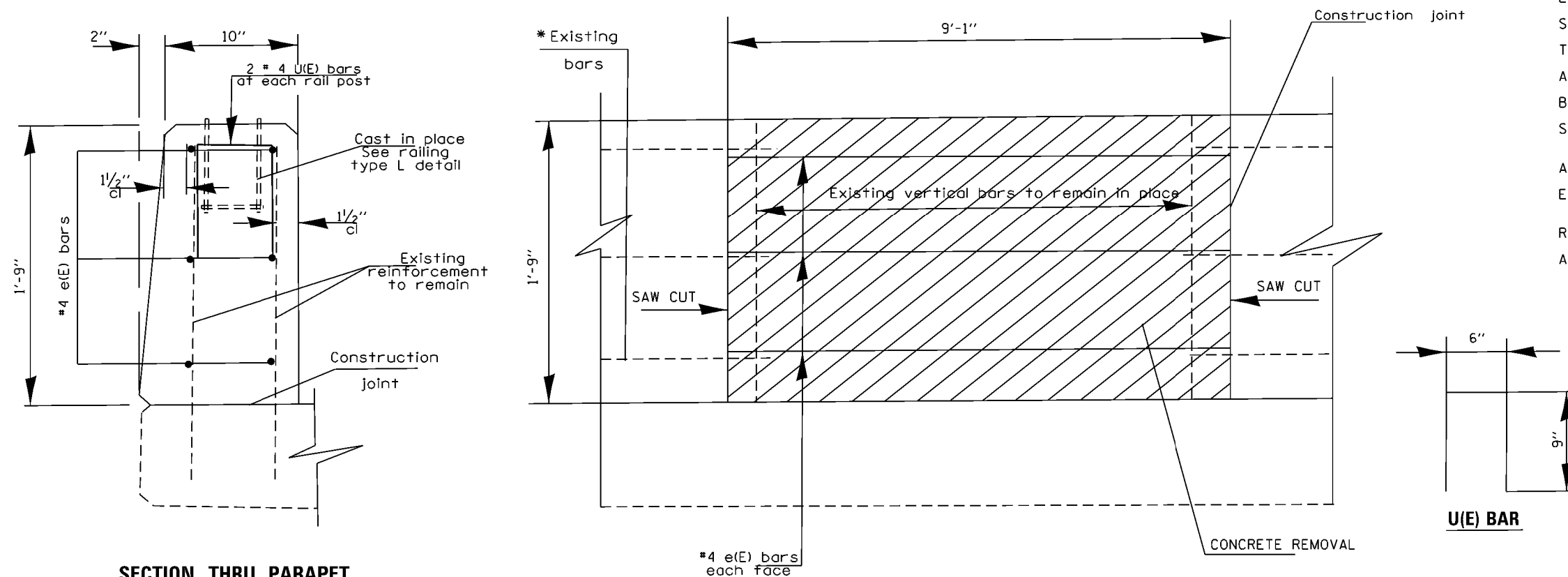
NOTE

* EXISTING REINFORCEMENT BARS EXTENDING INTO REMOVAL SHALL BE NCLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED OR DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

ALL REINFORCEMENT BARS SHALL BE CUT IN FIELD TO FIT
EXISTING SHAPE AND CLEARANCE.

REPLACEMENT RAIL, POST AND SPLICES MUST BE PICKED UP
AT DISTRICT BRIDGE OFFICE:

1101 BIESTERFIELD ROAD, ELK GROVE, IL
BETWEEN 8 AM AND 2 PM WITH 24 HOURS NOTICE.



SECTION THRU PARAPET

PARAPET ELEVATION

TRAFFIC DATA

KEDZIE AVE

2018 ADT = 19600

SPEED LIMIT = 30 MPH

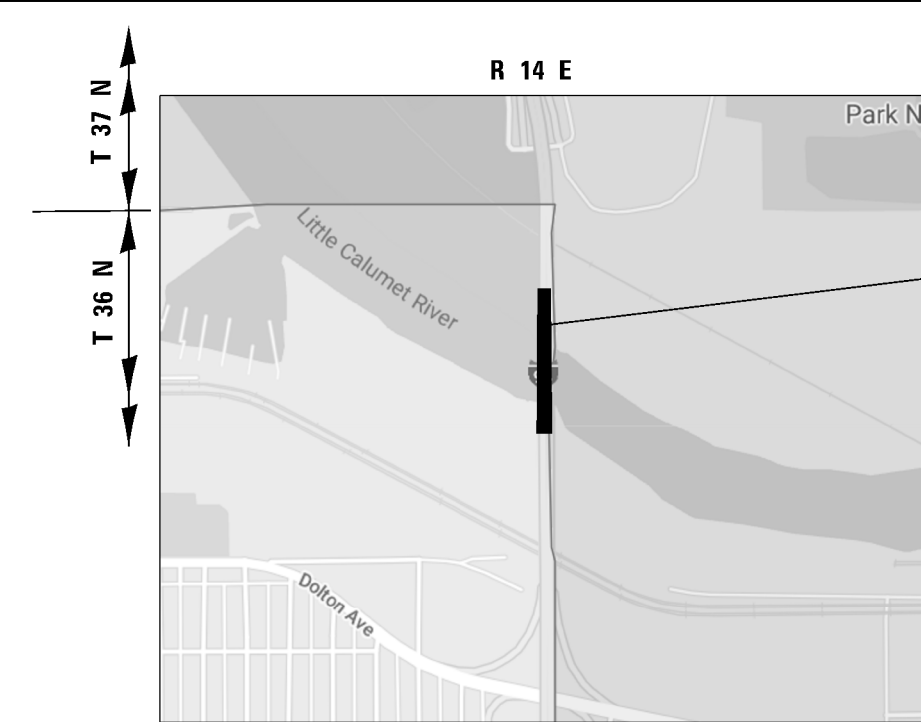
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PLOT DATE = 4/21/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

	LOCATION 3. SN 016-0761 KEDZIE AVE AT 73rd ST
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SCALE:	SHEET 1 OF 2 SHEETS	STA. TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	17
		CONTRACT NO. 62K98		
		ILLINOIS FED. AID PROJECT		

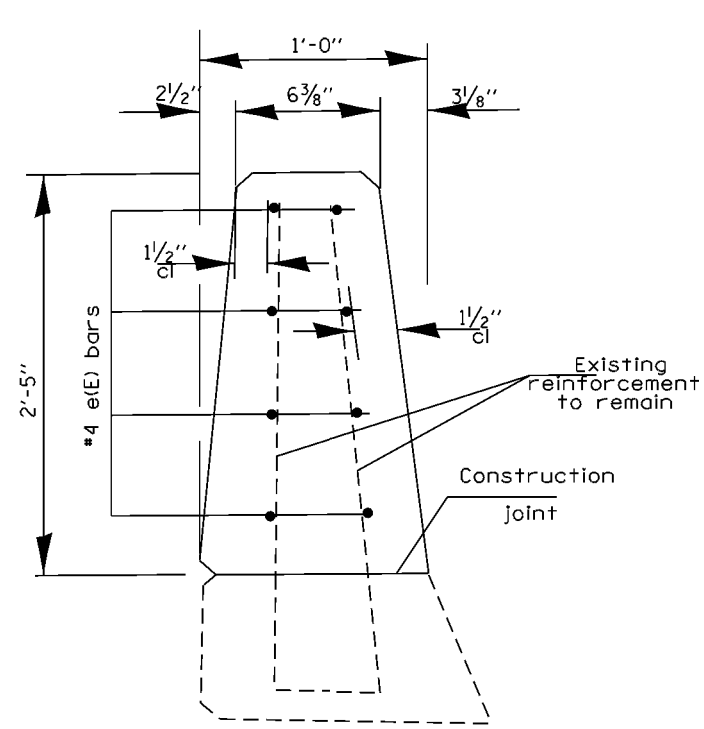


VILLAGE OF DOLTON AND CITY OF CALUMET
THORNTON TOWNSHIP, COOK COUNTY

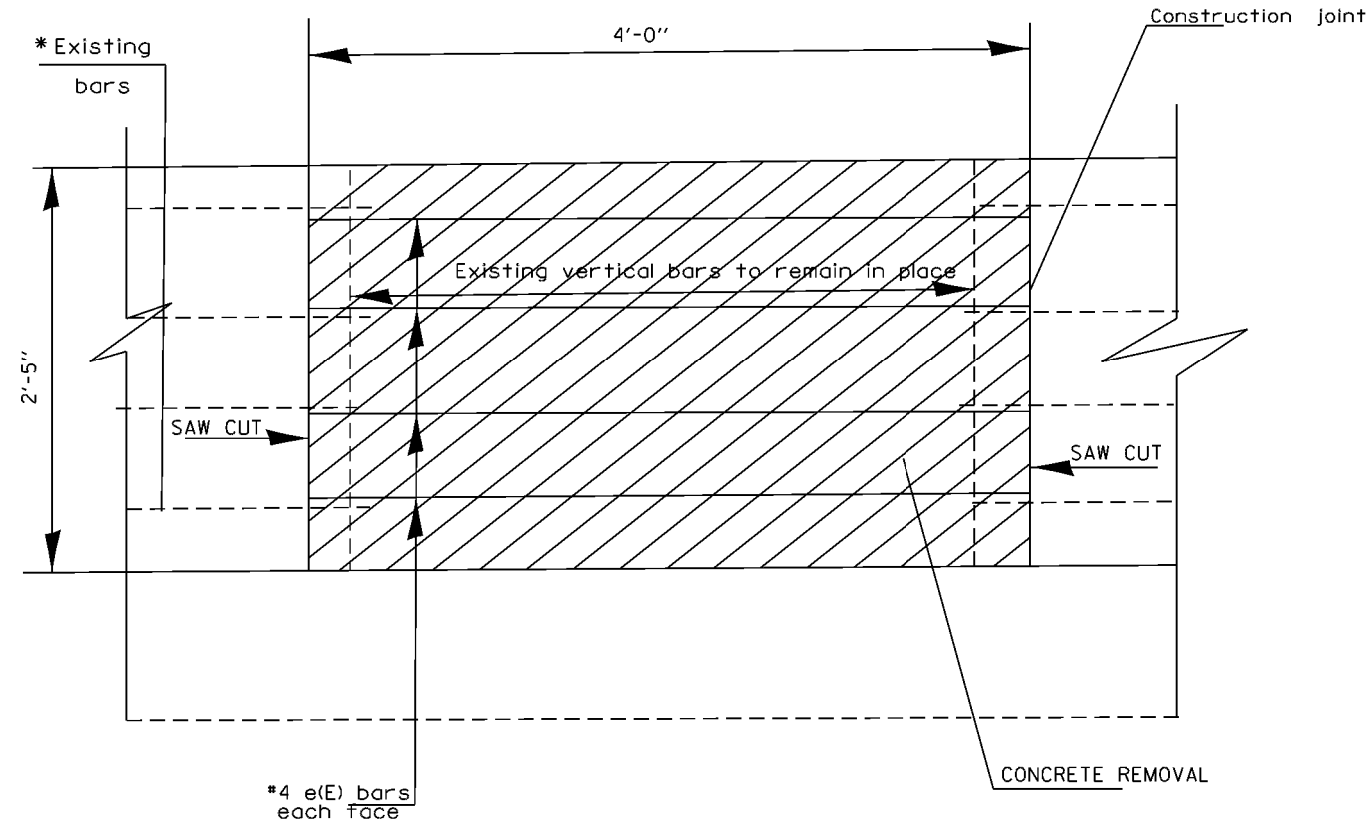
LOCATION 4 A & B
I-94 NB OVER
LITTLE CALUMET RIVER
SN 016-159



LOCATION 4A
PARTIAL DEPTH PARAPET REPAIR
REPLACE APPROXIMATELY 4 FT OF PARAPET
LOCATED WEST SIDE, NORTH OF TRUSS OVER APPROACH SPANS



SECTION THRU PARAPET



PARAPET ELEVATION

NOTE

* EXISTING REINFORCEMENT BARS EXTENDING INTO REMOVAL SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED OR DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM, COST INCLUDED WITH CONCRETE REMOVAL.

ALL REINFORCEMENT BARS SHALL BE CUT IN FIELD TO FIT EXISTING SHAPE AND CLEARANCE.

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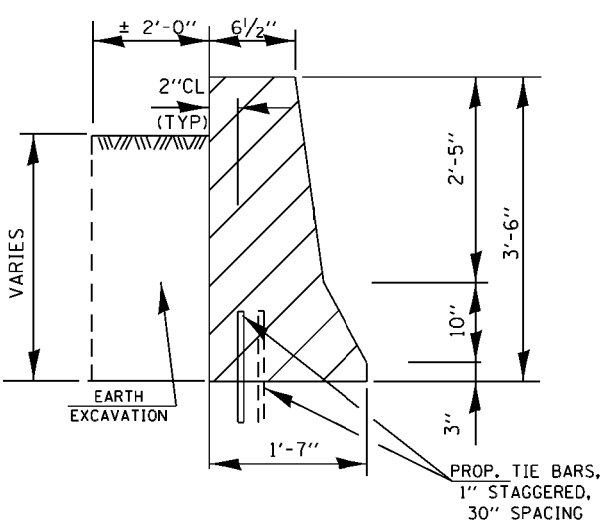
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 4A & 4B SN 016-0159 I-94 NB OVER LITTLE CALUMET RIVER			
SCALE:	SHEET 1 OF 3 SHEETS	STA.	TO STA.

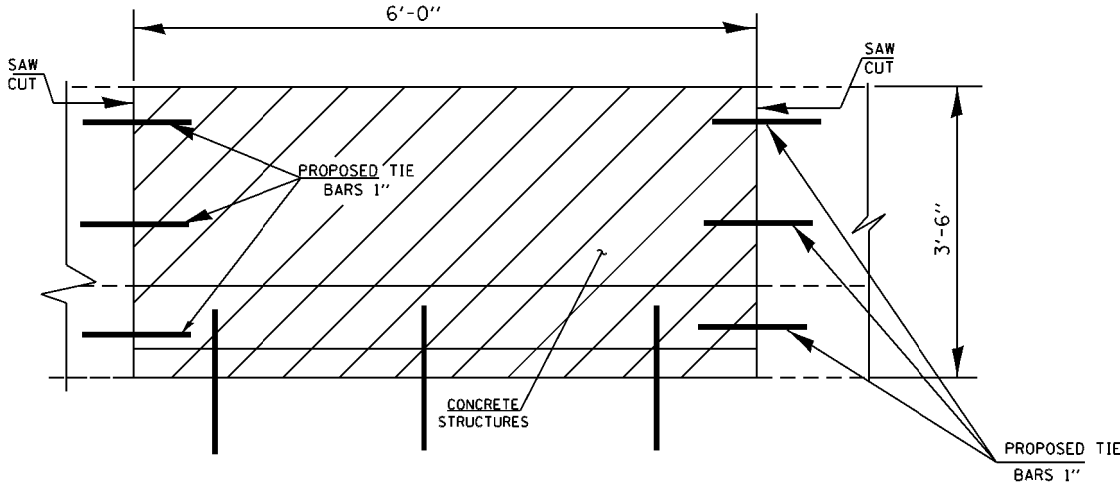
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	19
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				



LOCATION 4B
FULLL DEPTH BARRIER WALL
REPLACE APPROXIMATELY 6 FT SECTION
LOCATED AT EAST SIDE-100 FT NORTH OF TRUSS
APPROACH SPANS ON ROADWAY



SECTION THRU BARRIER WALL



ELEVATION

BILL OF MATERIALS LOC. 4A

BAR	SIZE	LENGTH	SHAPE	QUANTITY
e(E)	#4	3'-9"	—	8
CONCRETE SUPERSTRUCTURE			CU. YDS	0.30
REINFORCEMENT BARS EPOXY COATED			LBS	20.0
CONCRETE REMOVAL			CU. YDS	0.30
MECHANICAL SPLICERS			EACH	16
PROTECTIVE COAT			SQ. YDS	1.5
SAW CUT			FOOT	5.0

BILL OF MATERIALS LOC. 4B

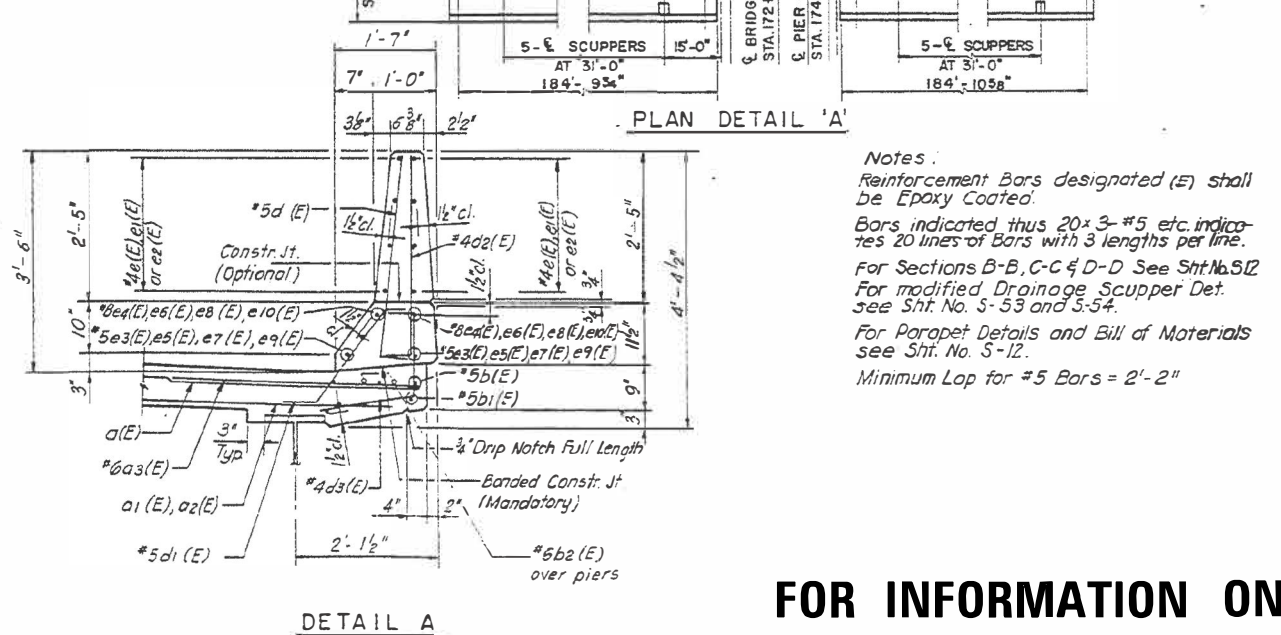
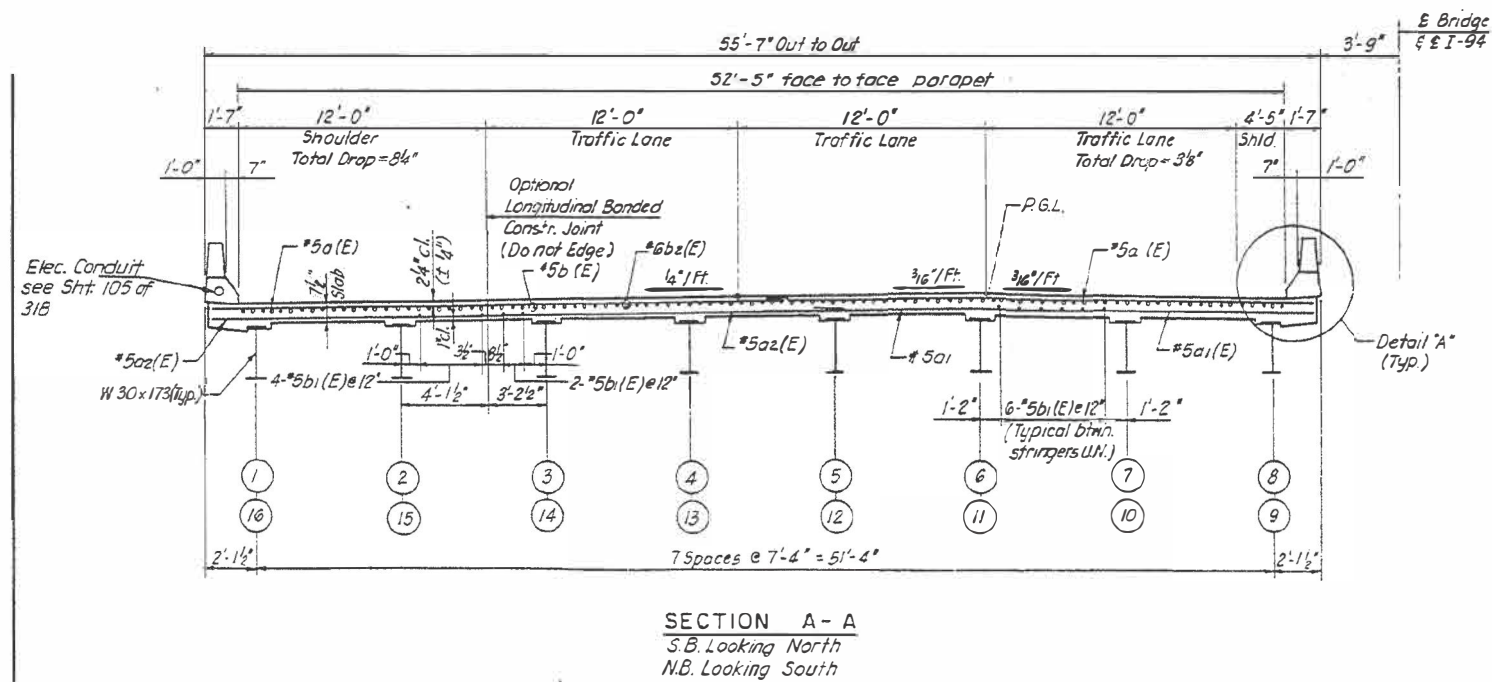
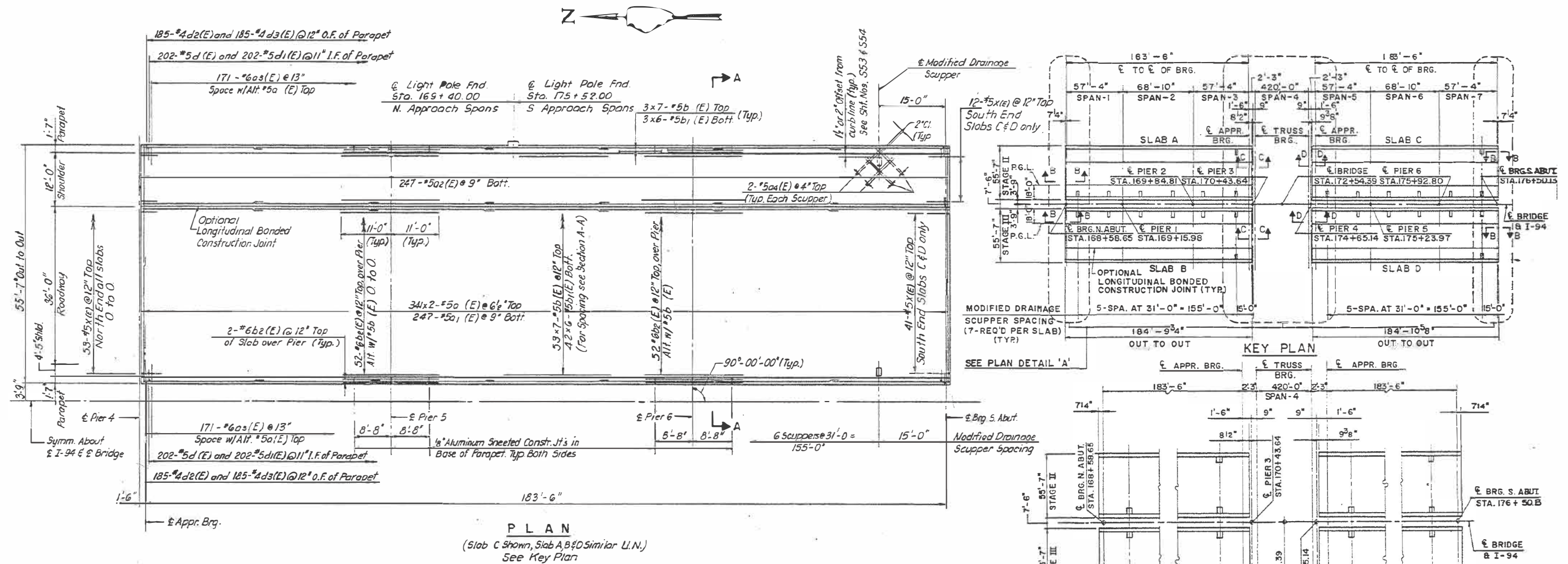
ITEM	UNIT	QUANTITY
CONCRETE STRUCTURES	CU. YDS	0.7
CONCRETE REMOVAL	CU. YDS	0.05
TIE BARS	EACH	9
SAW CUT	FOOT	3.5
EARTH EXCAVATION	CU. YDS	0.9
TEMPORARY EROSION CONTROL BLANKET	SQ. YDS	8.0
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	0.25
SEEDING CLASS 2A	ACRE	0.0001
PROTECTIVE COAT	SQ. YDS	2.8

TRAFFIC DATA

I-94
2018 ADT = 158200
SPEED LIMIT = 55 MPH

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		DRAWN -	REVISED -				VAR	2020-027-BR&I	VARIOUS	59	20
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -				CONTRACT NO. 62K98				
	PLOT DATE = 3/26/2020	DATE -	REVISED -				ILLINOIS FED. AID PROJECT				
SCALE:		SHEET 2 OF 3 SHEETS		STA.		TO STA.					



Notes :
Reinforcement Bars designated (E) shall be Epoxy Coated.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of Bars with 3 lengths per line.
For Sections B-B, C-C & D-D See Sht.No.512
For modified Drainage Scupper Det. see Sht. No. 5-53 and 5-54.
For Parapet Details and Bill of Materials see Sht. No. 5-12.
Minimum Lap for #5 Bars = 2'-2"

FOR INFORMATION ONLY

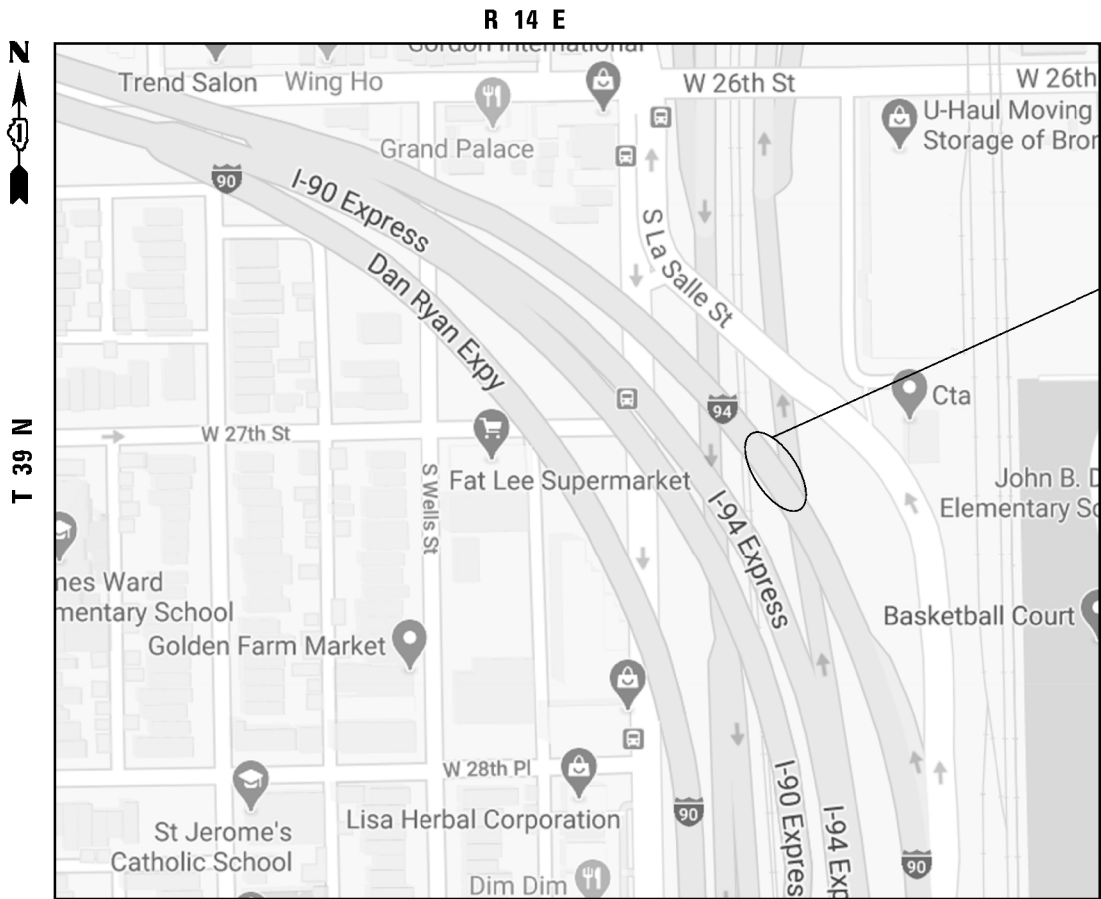
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	DRAWN	REVISED =
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PLOT DATE = 3/26/2020	DATE =	REVISED =

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 4 A: SN 016-0159
I-94 NB OVER LITTLE CALUMET RIVER

SCALE:	SHEET 3 OF 3 SHEETS	STA. TO STA.
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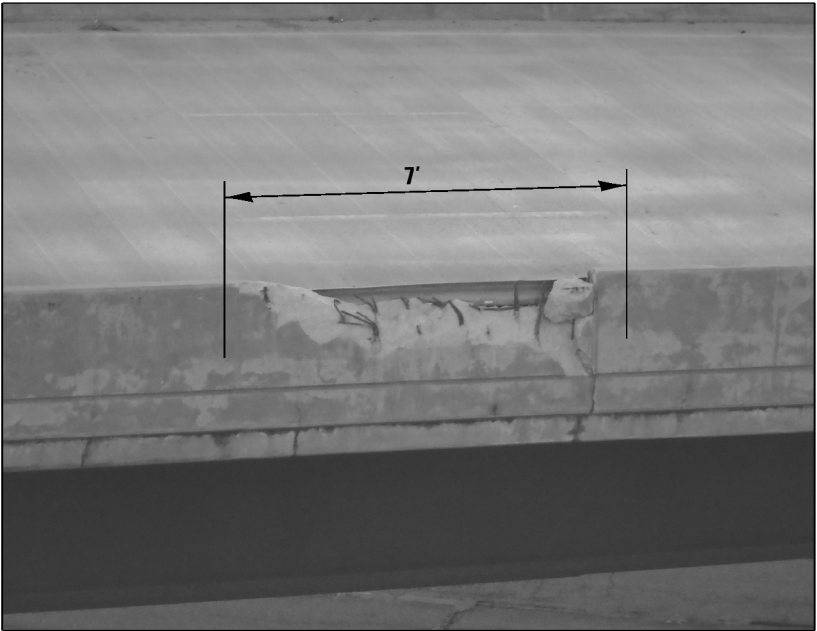
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	21
		CONTRACT NO. 62K98		
		ILLINOIS FED. AID PROJECT		



LOCATION 5A SN 016-1118 A
LOCATION 5B SN 016-1118 B
I-90/94 (DAN RYAN) NB LOCALS
OVER CHINATOWN FEEDER

TRAFFIC DATA

I-90 LOCALS
2019 ADT = 222100
SPEED LIMIT = 45 MPH

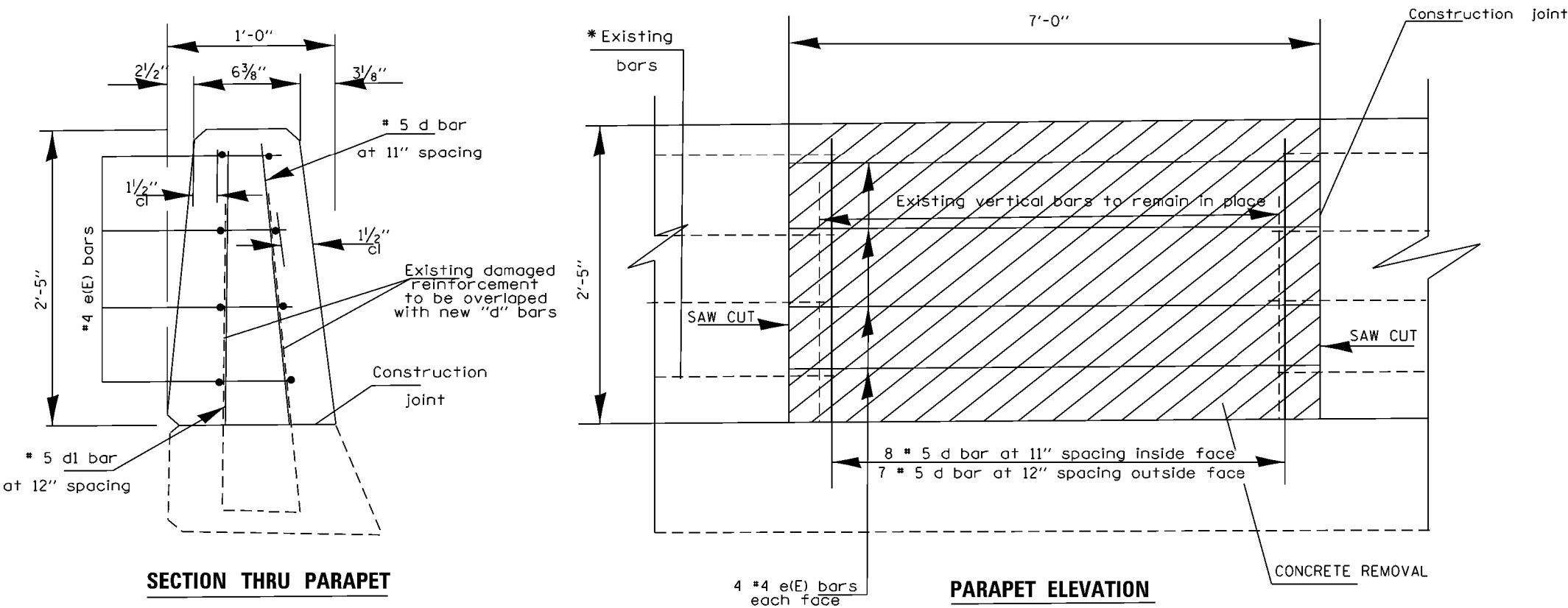


LOCATION 5A. PARTIAL DEPTH PARAPET REPAIR
REPLACE APPROXIMATELY 7 FT OF PARAPET
LOCATED AT I-90/94 (DAN RYAN) NB LOCALS
2 FT NW OF PIER H2
SEE SHT #3 OF 3 FOR PLAN LOCATION

CITY OF CHICAGO
SOUTH CHICAGO TOWNSHIP, COOK COUNTY

BILL OF MATERIALS

BAR	SIZE	LENGTH	SHAPE	QUANTITY
e(E)	#4	6'-9"	—	8
d(E)	#5	2'-3"	—	8
d1(E)	#4	2'-3"	—	7
CONCRETE REMOVAL			CU. YDS	0.50
REINFORCEMENT BARS EPOXY COATED			LBS	70.0
CONCRETE SUPERSTRUCTURE			CU. YDS	0.50
MECHANICAL SPLICERS			EACH	16
PROTECTIVE COAT			SQ. YDS	2.5
SAW CUT			FOOT	5.0



NOTE
EXISTING REINFORCEMENT BARS EXTENDING INTO REMOVAL SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED OR DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

ALL REINFORCEMENT BARS SHALL BE CUT IN FIELD TO FIT EXISTING SHAPE AND CLEARANCE.

MODEL: Default
FILE: Model - parapetrepair.dgn
PROJECT: D:\140920\CADD\Design\140920.dgn
OFFICE: District 1
DATE: 3/26/2020

USER NAME = gorenautab	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 3/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 5A. SN 016-1118A
I-90/94 NB LOCALS OVER CHINATOWN FEEDER

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	22
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				




LOCATION 5B. PARTIAL DEPTH PARAPET REPAIR
REPLACE APPROXIMATELY 5 FT OF PARAPET
LOCATED AT I-90/94 (DAN RYAN) NB LOCALS
20 FT PAST H3 LEFT SIDE.

SEE SHT #3 OF 3 FOR PLAN LOCATION

TRAFFIC DATA

I-90 LOCALS
2019 ADT = 222100
SPEED LIMIT = 45 MPH

BILL OF MATERIALS

BAR	SIZE	LENGTH	SHAPE	QUANTITY
e(E)	#4	4'-9"		8
CONCRETE REMOVAL			CU. YDS	0.50
REINFORCEMENT BARS EPOXY COATED			LBS	26.0
CONCRETE SUPERSTRUCTURE			CU. YDS	0.50
MECHANICAL SPLICERS			EACH	16
PROTECTIVE COAT			SQ. YDS	2.5
SAW CUT			FOOT	5.0

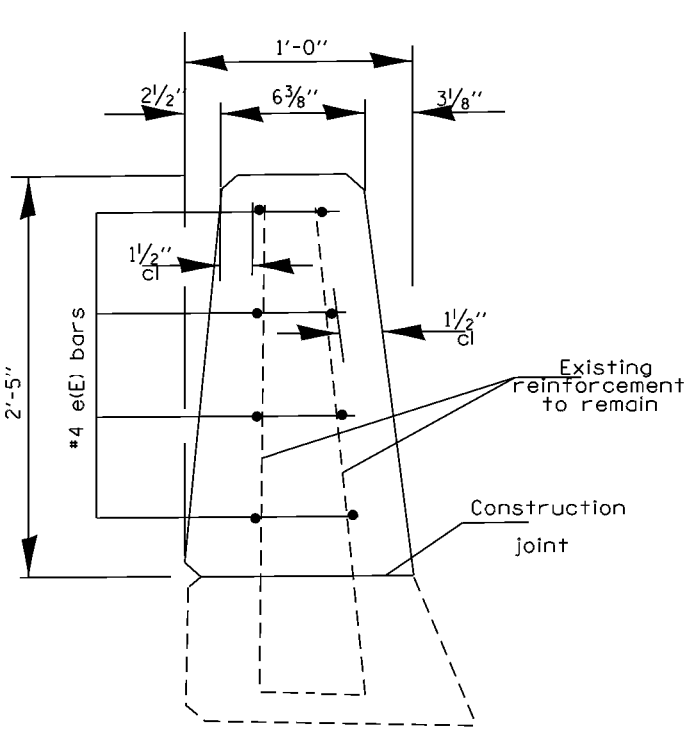
NOTE

EXISTING REINFORCEMENT BARS EXTENDING INTO REMOVAL SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED OR DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

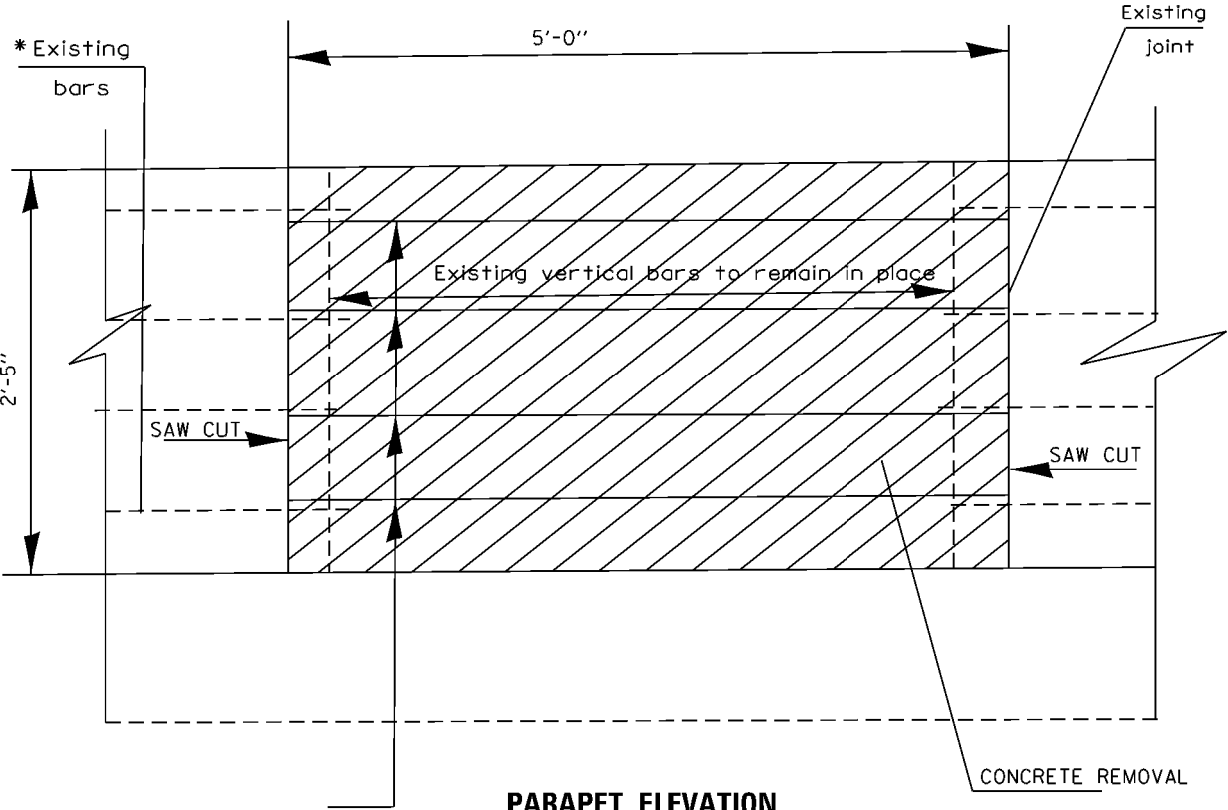
ALL REINFORCEMENT BARS SHALL BE CUT IN FIELD TO FIT EXISTING SHAPE AND CLEARANCE.

LOCATION 5A & 5B:
PRIOR TO STARTING WORK AT THIS LOCATIONS THE CONTRACTOR IS REQUIRED TO ATTEND THE ETP TRAFFIC CONTROL COORDINATION MEETING ON THURSDAYS AT 10:00 AM AT 3501 SOUTH NORMAL AVE, CHICAGO, IL 60616 TO COORDINATE WORK WITH CONTRACTORS ON THE JANE BYRNME INTERCHANGE.

THE CONTRACTOR NEED TO CLOSE THE LEFT SHOULDER OF THE SB CHINATOWN FEEDER DURING DEMOLITION, FRAMING AND CONCRETE POURING. EXTRA CAUTION SHOULD BE TAKEN TO PREVENT DEBRIS FROM FOLLING INTO ANY OPEN LANES TO TRAFFIC.



SECTION THRU PARAPET



PARAPET ELEVATION

MODEL: Default
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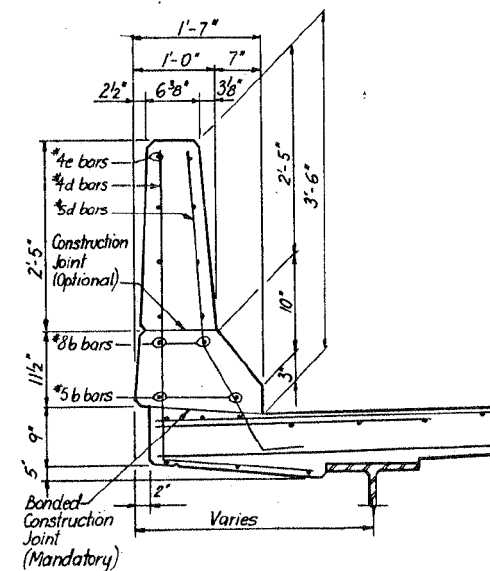
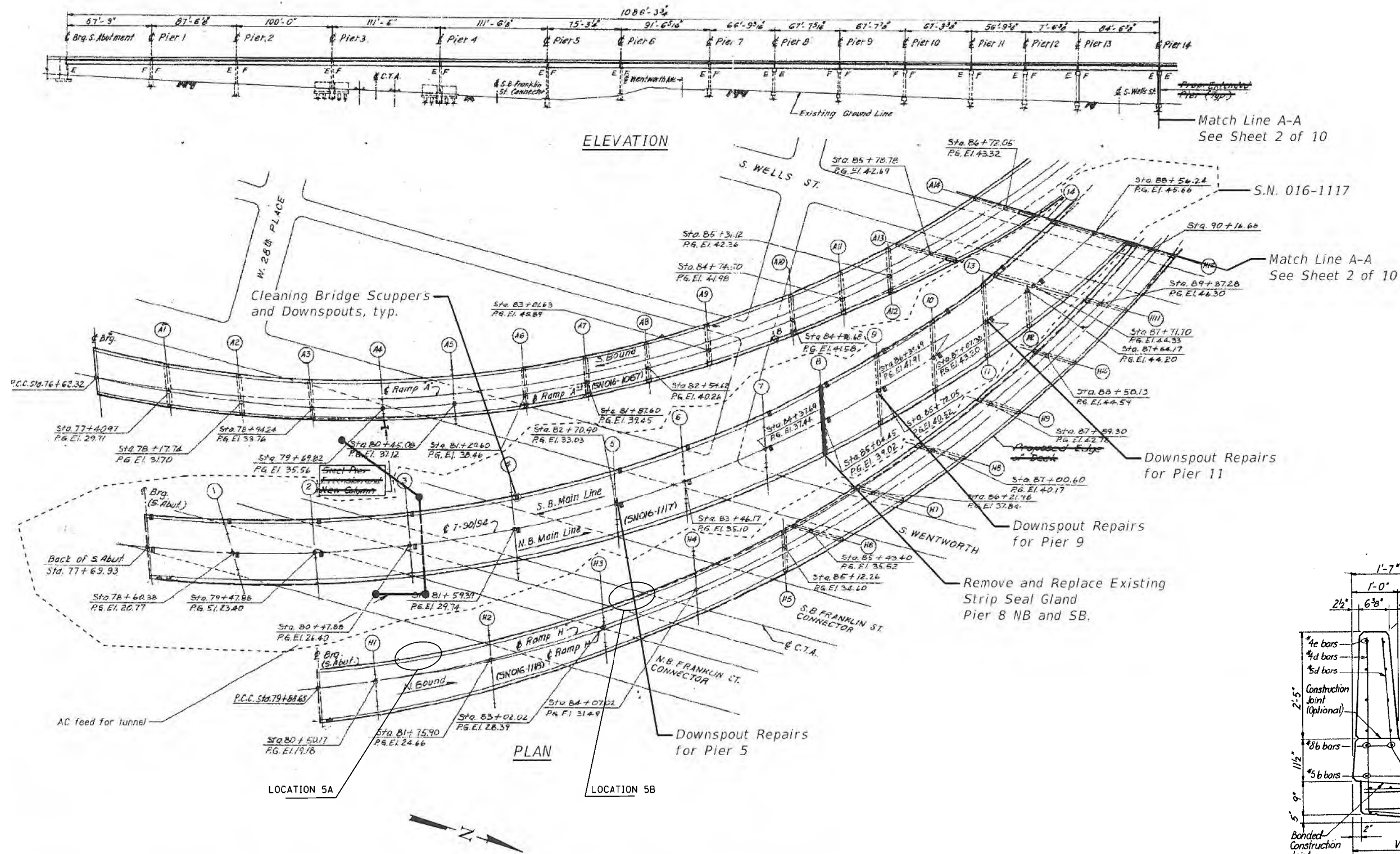
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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 4/20/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 5B. 016-1118B
I-90/94 NB LOCALS OVER CHINATOWN FEEDER

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	200-027-BR&I	VARIOUS	59	23
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				



TYPICAL PARAPET DETAIL

FOR INFORMATION ONLY

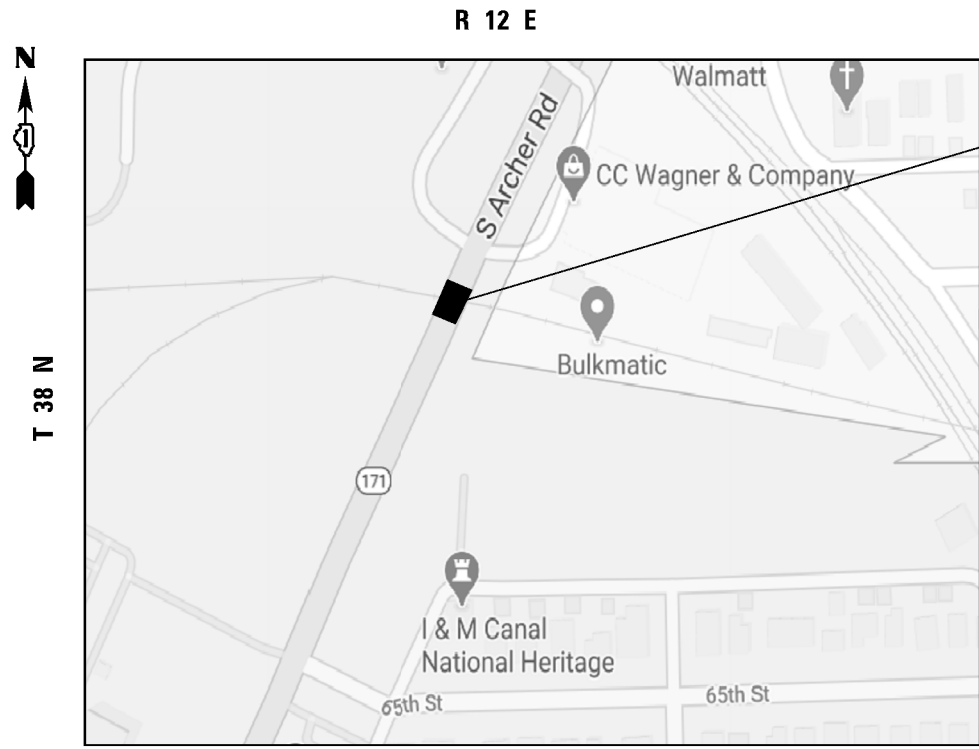
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 5A AND 5B. SN 016-1118A AND 016-1118B
I-90/94 NB LOCALS OVER CHINATOWN FEEDER

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	24
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				

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

USER NAME = gorengautab	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 100.0000" / 1"	CHECKED -	REVISED -
PLOT DATE = 3/26/2020	DATE -	REVISED -



VILLAGE OF SUMMIT
LYONS TOWNSHIP, COOK COUNTY

LOCATION 6. SN 016-2607
IL 171 (ARCHER AVE) OVER
IHB RR

TRAFFIC DATA

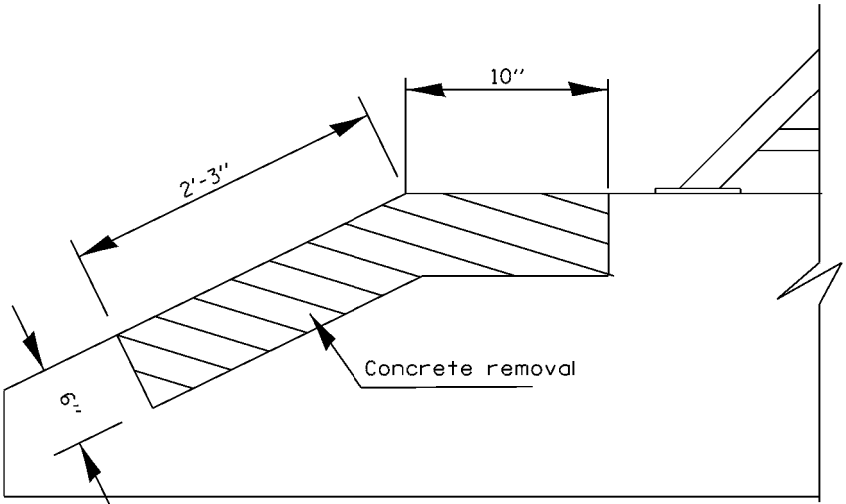
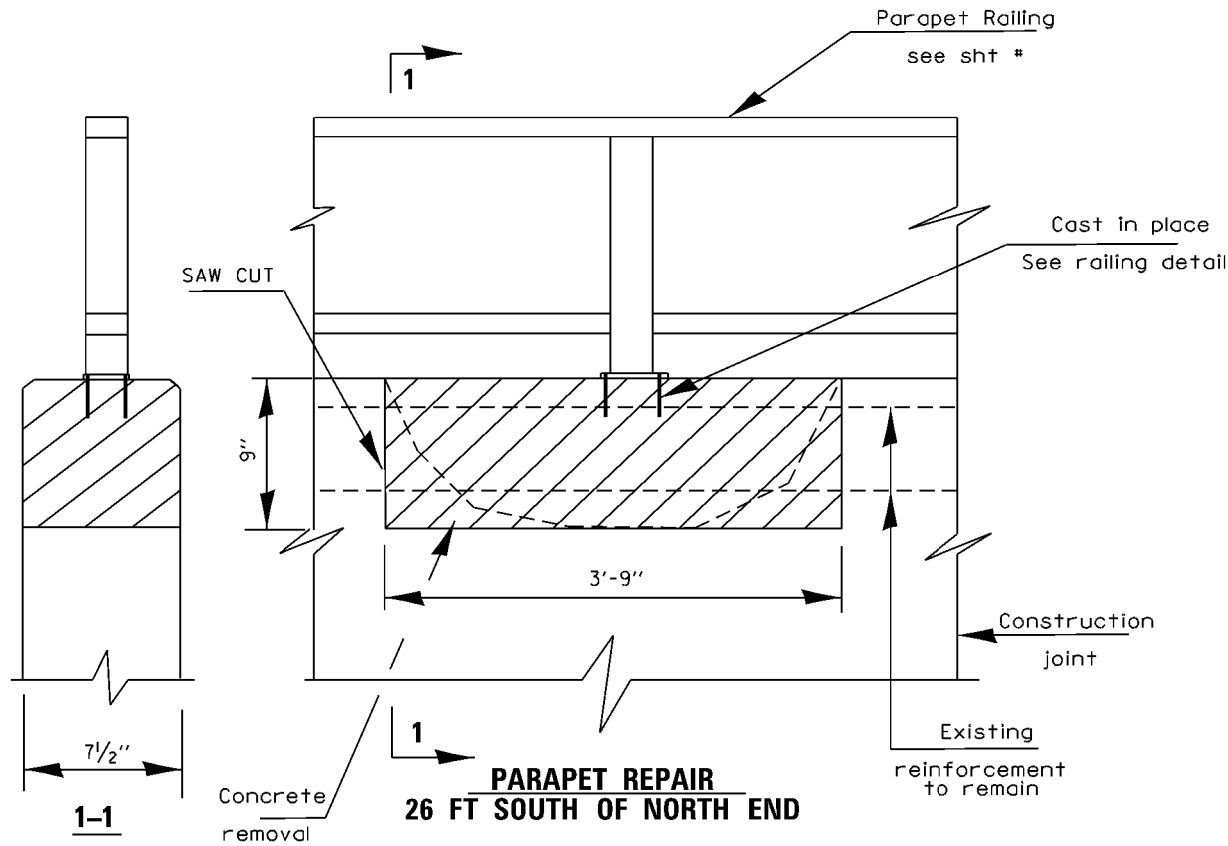
IL 171 (ARCHER AVE)
2019 ADT = 28100
SPEED LIMIT = 30 MPH



PARTIAL DEPTH PARAPET REPAIR
LOCATED AT IL 171 SB NORTH APPROACH
VERY NORTH END



PARTIAL DEPTH PARAPET REPAIR
LOCATED AT IL 171 SB NORTH APPROACH
26 FT SOUTH OF NORTH END



PARAPET REPAIR
VERY NORTH END

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE SUPERSTRUCTURE	CU. YDS	0.12
CONCRETE REMOVAL	CU. YDS	0.07
PROTECTIVE COAT	SQ. YDS	3.0
SAW CUT	FOOT	6.0
PARAPET RAILING	FOOT	51.5

NOTE

EXISTING REINFORCEMENT BARS EXTENDING INTO REMOVAL SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED OR DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

ALL REINFORCEMENT BARS SHALL BE CUT IN FIELD TO FIT EXISTING SHAPE AND CLEARANCE.

MODEL: Default
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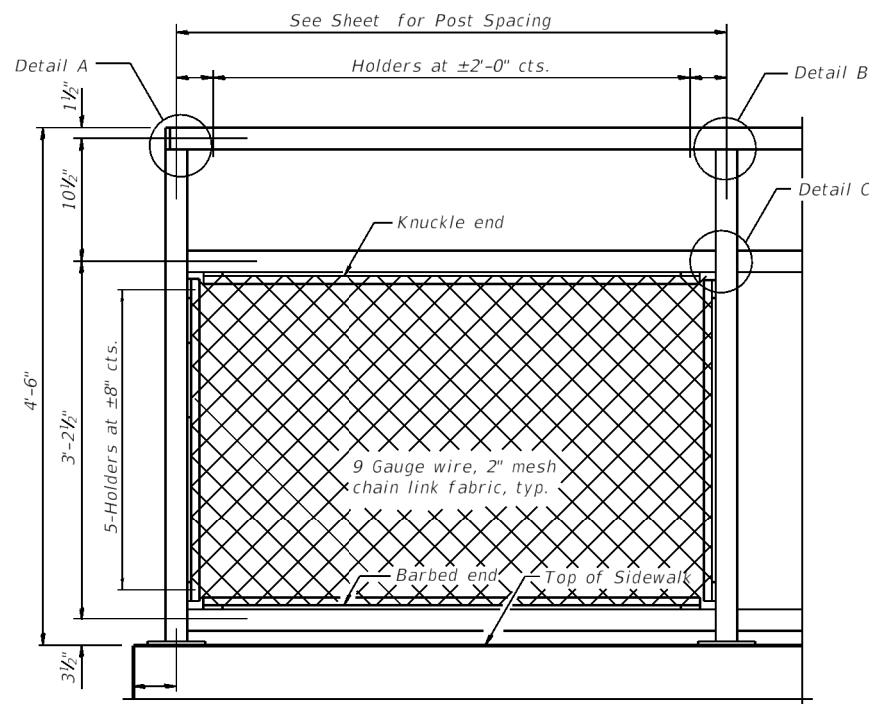
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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

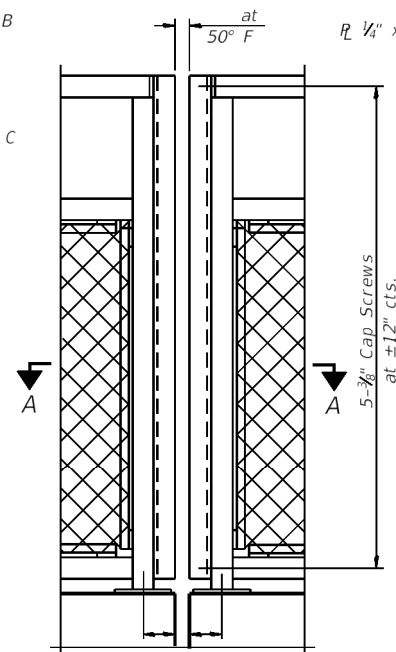
LOCATION 6. SN 016-2607
IL 171 OVER IHB RR

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

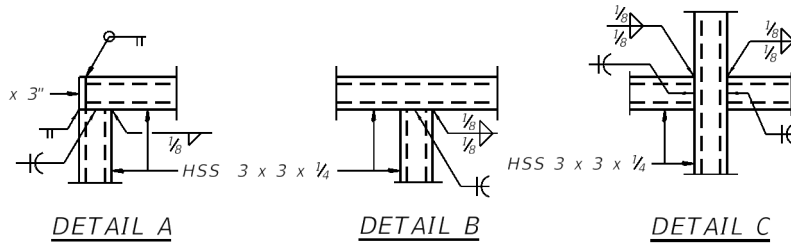
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	25
				CONTRACT NO. 62K98
ILLINOIS FED. AID PROJECT				



BICYCLE RAILING

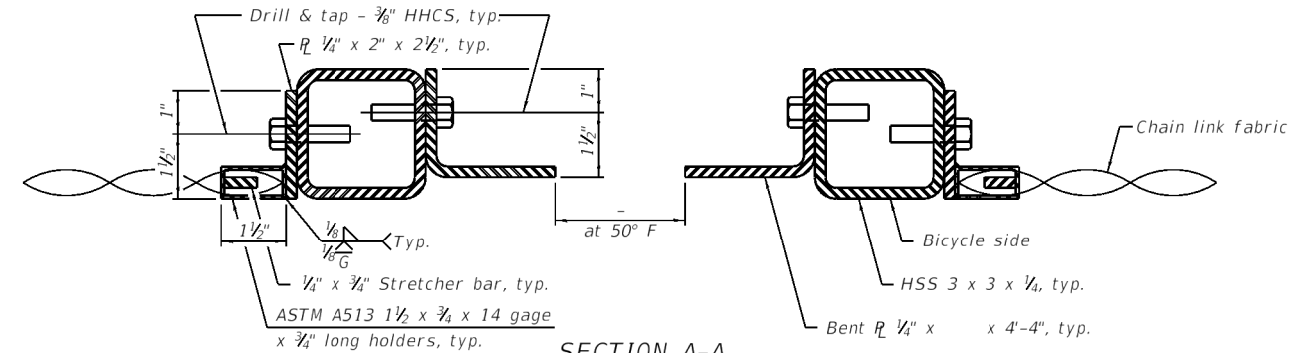


BICYCLE RAILING

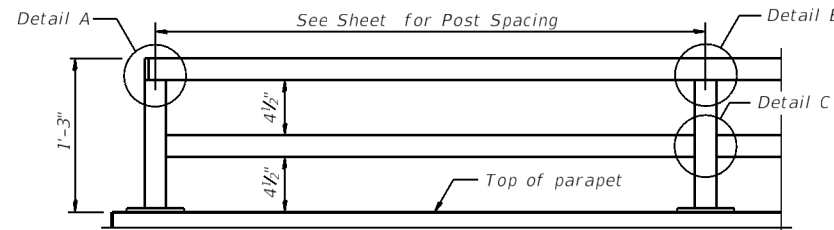


The designer should add the appropriate note as applicable.
A. When railing is galvanized:
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
B. When railing is painted:
All post, railing, splices, anchor devices, and plates shall be painted using the (List the appropriate paint system for Structural Steel).

Only one of the above notes would appear on Contract Plans.

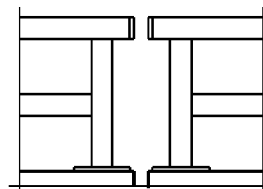


SECTION A-A



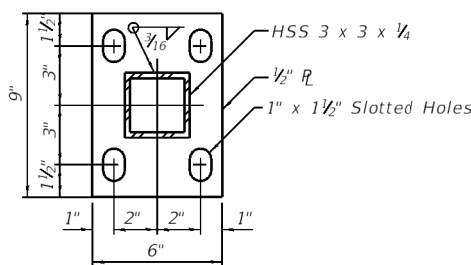
**PARAPET RAILING
ELEVATION**

(Inside Face of Two Element Rail)

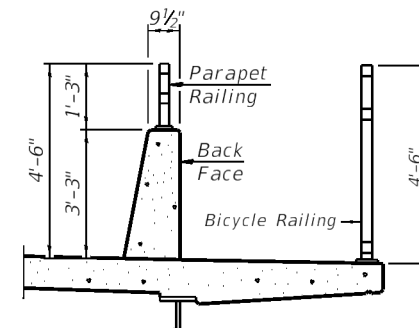


**PARAPET RAILING
ELEVATION AT EXPANSION JOINT**

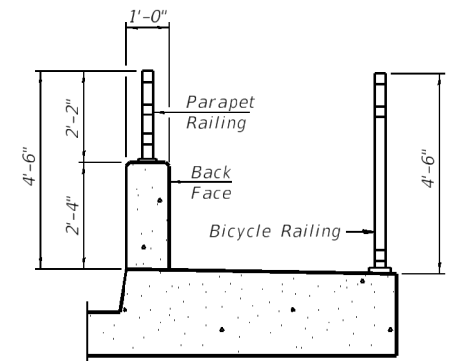
(Two Element Rail Shown - Three Element Rail Similar)



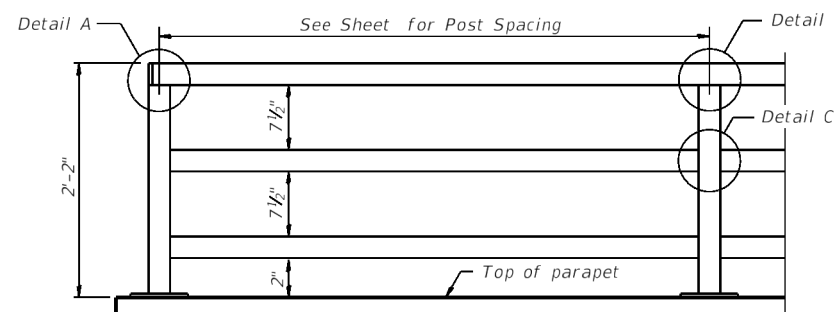
BASE R



SECTION THRU DECK

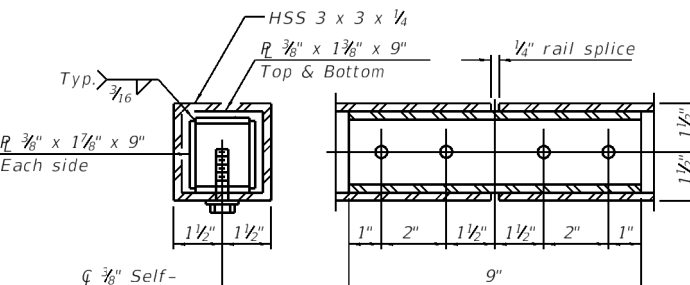


SECTION THRU SIDEWALK

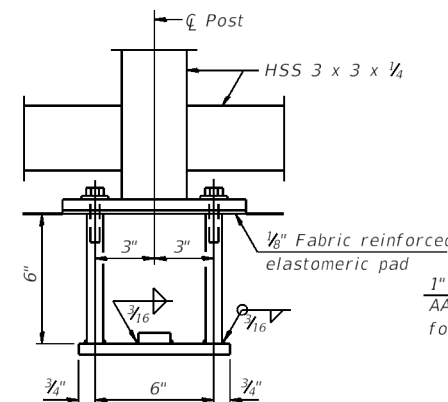


**PARAPET RAILING
ELEVATION**

(Inside Face of Three Element Rail)

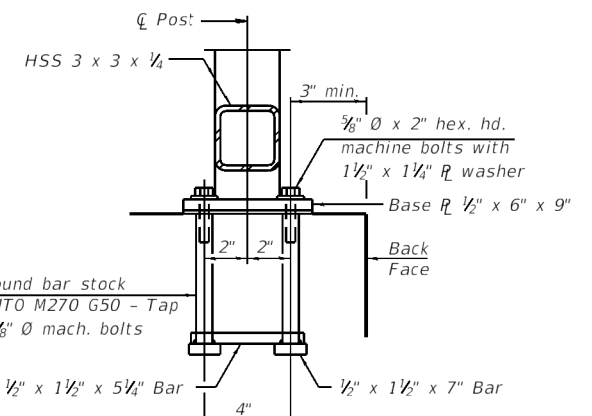


RAIL SPLICE



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 3/8" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	
Parapet Railing	Foot	

Notes:
All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications.
CVN testing may be omitted for the Bicycle Railing.

R-29

1-14-2019

(10'-0" Maximum Post Spacing)

FOR INFORMATION ONLY

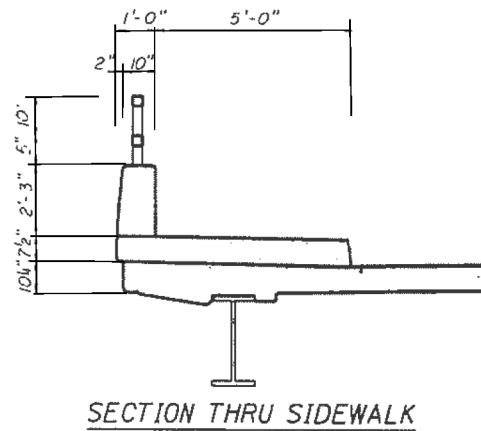
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 6. SN 016-2607
IL 171 OVER IHB RR**

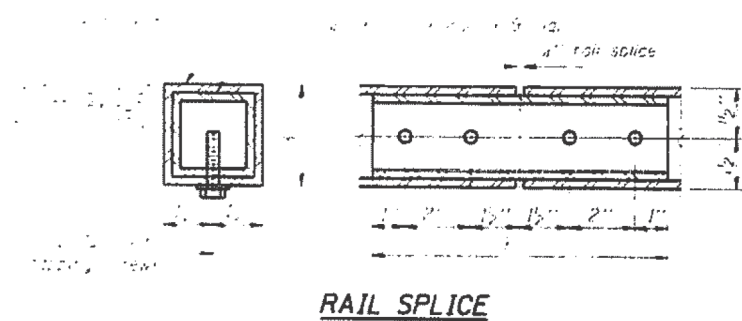
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	27
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

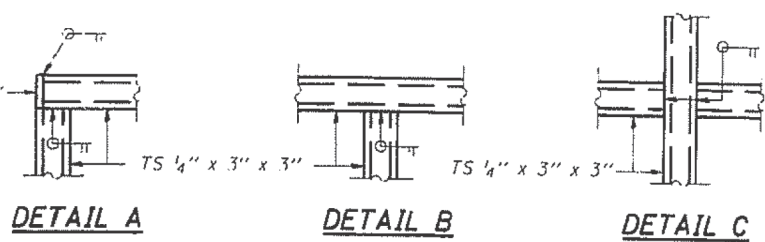
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SECTION THRU SIDEWALK



RAIL SPLICE



DETAIL A

DETAIL B

DETAIL C

NOTES

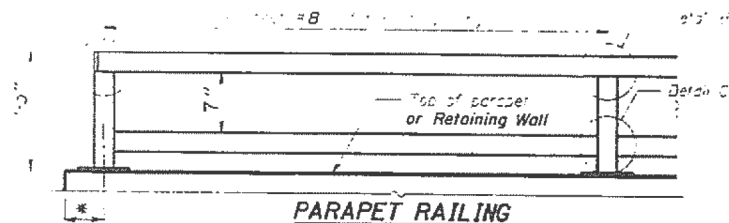
Railing shall be in accordance with Section 509 of the Standard Specifications, except as noted, and will be paid for at the Contract Unit Price per foot for Parapet Railing.

Hollow structural steel tubing shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing.

All other steel shapes and plates shall conform to the requirements of AASHTO M-270 Grade 36.

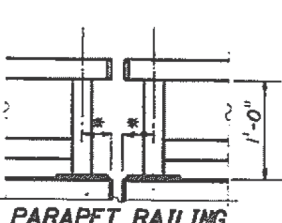
All posts, railings, splices, anchor devices, and bent plates shall be galvanized after shop fabrication in accordance with AASHTO M-111 and ASTM A-385. All bolts, nuts, and washers shall be galvanized in accordance with AASHTO M-232.

vent holes for galvanizing shall be placed in the posts and rails at locations that will allow the accumulation of moisture in the members.



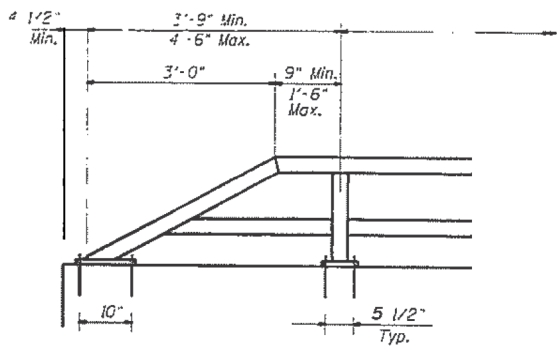
PARAPET RAILING
ELEVATION

* = Variable, See Elevations



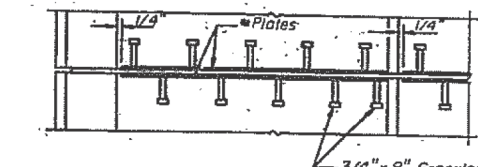
PARAPET RAILING
ELEVATION

(At Expansion Joint)



PARAPET RAILING ELEVATION

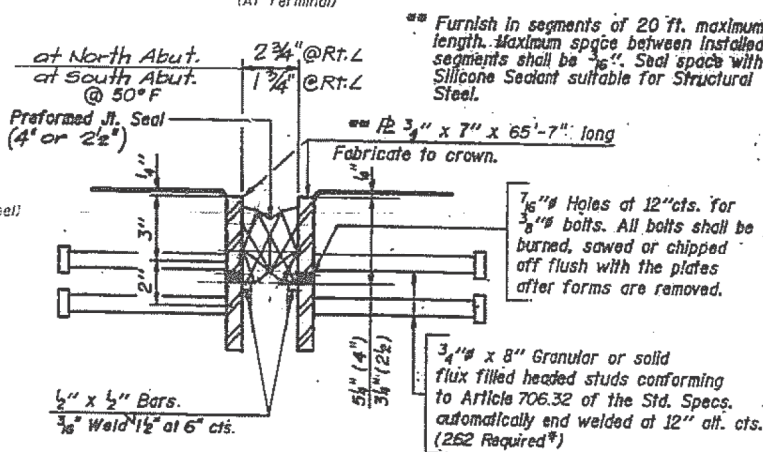
(At Terminal)



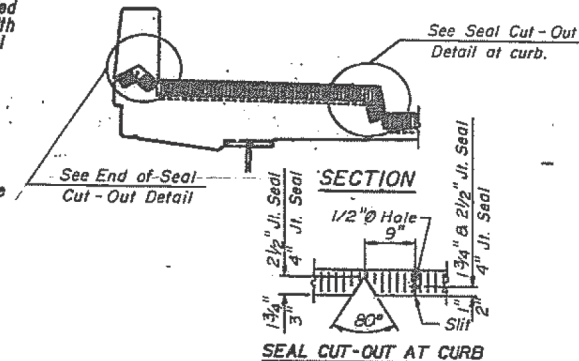
PLAN

* Cut retainer bars in sidewalk 6" short of sidewalk face.

3/4" x 8" Granular or solid flux filled headed studs conforming to Art. 706.32 of the Std. Specs. automatically end welded at 12" off. cts.



DETAIL A

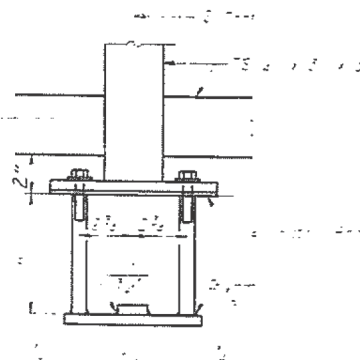


SECTION

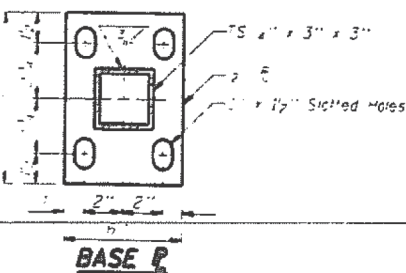
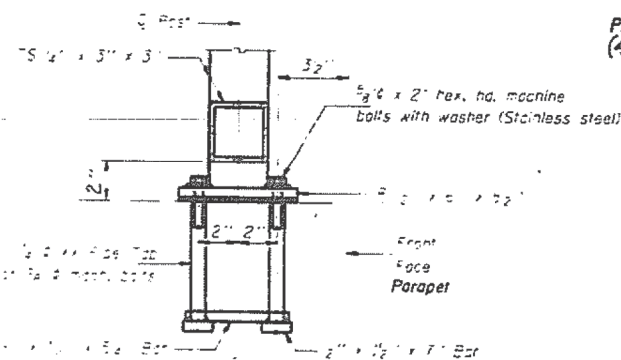
SEAL CUT-OUT AT CURB

TYPICAL SEAL TREATMENTS AT SIDEWALK

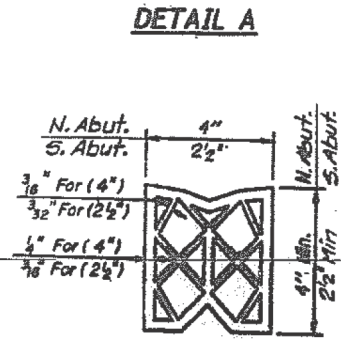
NOTE: After fabrication all surfaces of the steel plates shall be given one shop coat of paint specified for Structural Steel. No field painting required.



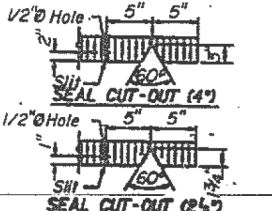
ANCHOR BOLT DETAILS



BASE P



PREFORMED JOINT SEAL



*Ea. Expansion Joint

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

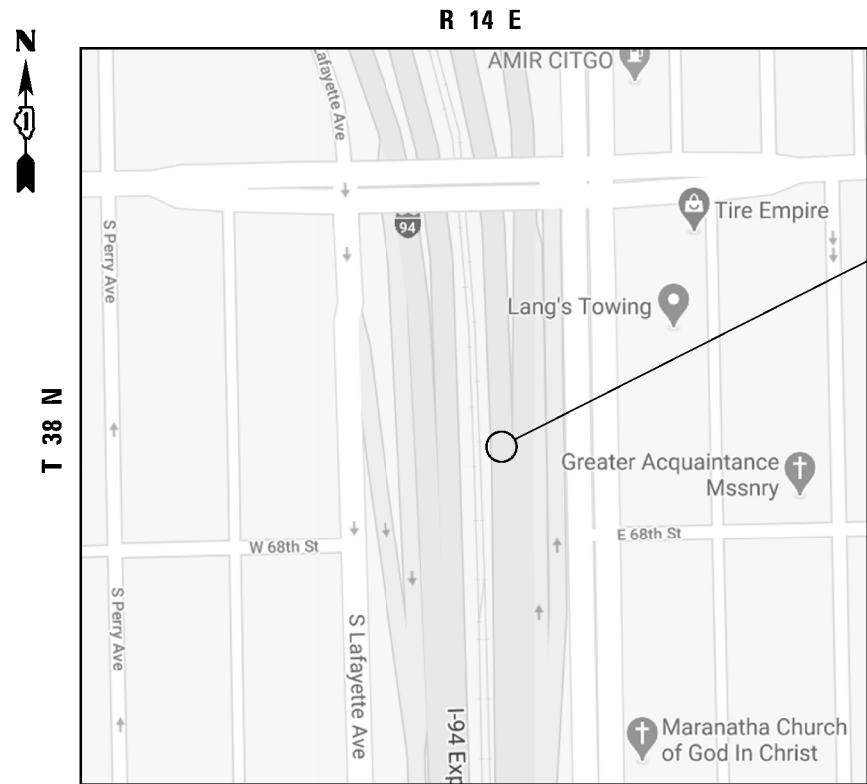
LOCATION 6. SN 016-2607
IL 171 OVER IHB RR

FOR INFORMATION ONLY

USER NAME = gorenautab	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 100,000' / 1" =	CHECKED -	REVISED -
PLOT DATE = 3/26/2020	DATE -	REVISED -

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	28
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				



CITY OF CHICAGO
LAKE TOWNSHIP, COOK COUNTY

TRAFFIC DATA

I-94

2019 ADT = 261800

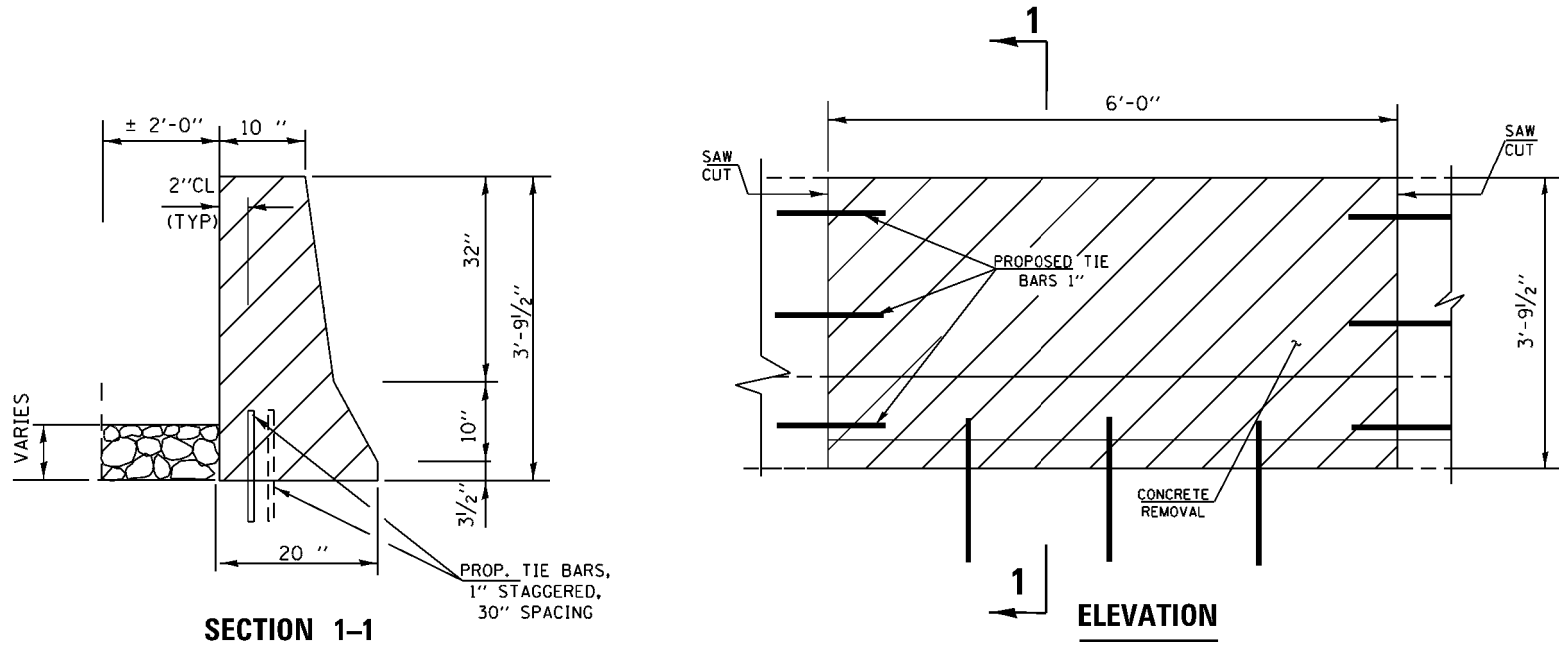
SPEED LIMIT = 55 MPH



LOCATION 8. FULL DEPTH BARRIER WALL REPAIR
REPLACE APPROXIMATELY 6 FT OF PARAPET
LOCATED AT I-94 (DAN RYAN) SB LEFT SIDE
AT 68th STREET

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU. YDS	0.75
CONCRETE STRUCTURES	CU. YDS	0.75
TIE BARS	EACH	9
SAW CUT	FOOT	8.0
PROTECTIVE COAT	SQ. YDS	3.5



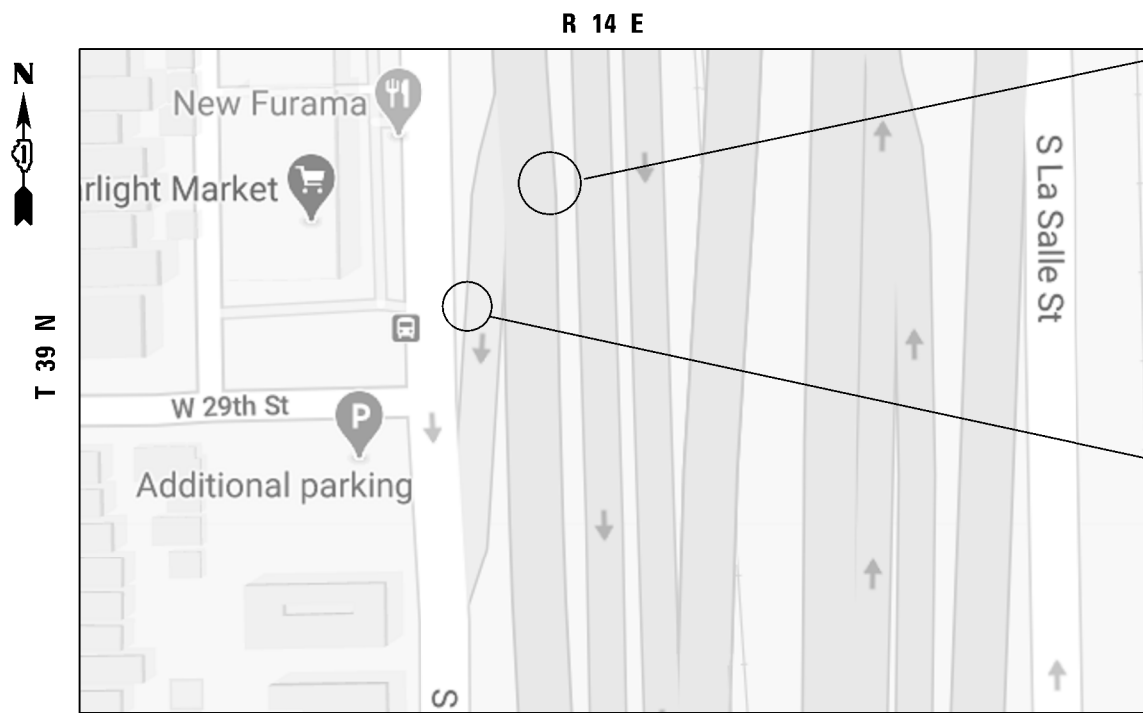
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DATE: 3/26/2020

USER NAME = gorenautab	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 8			
I-94 (DAN RYAN) SB AT 68th ST			
SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	30
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				



CITY OF CHICAGO
SOUTH CHICAGO TOWNSHIP, COOK COUNTY

LOCATION 23
SB I-94 LOCALS
AT 29TH ST
LEFT SIDE
SEE SHT 52-54

LOCATION 9
SB I-94 LOCALS
AT 29TH ST
RIGHT SIDE

BILL OF MATERIALS		
ITEM	UNIT	QUANTITY
CONCRETE SUPERSTRUCTURE	CU. YDS	0.4
CONCRETE REMOVAL	CU. YDS	0.4
PROTECTIVE COAT	SQ. YDS	1.7
SAW CUT	FOOT	5.0

TRAFFIC DATA

I-94

2019 ADT = 316300

SPEED LIMIT = 55 MPH

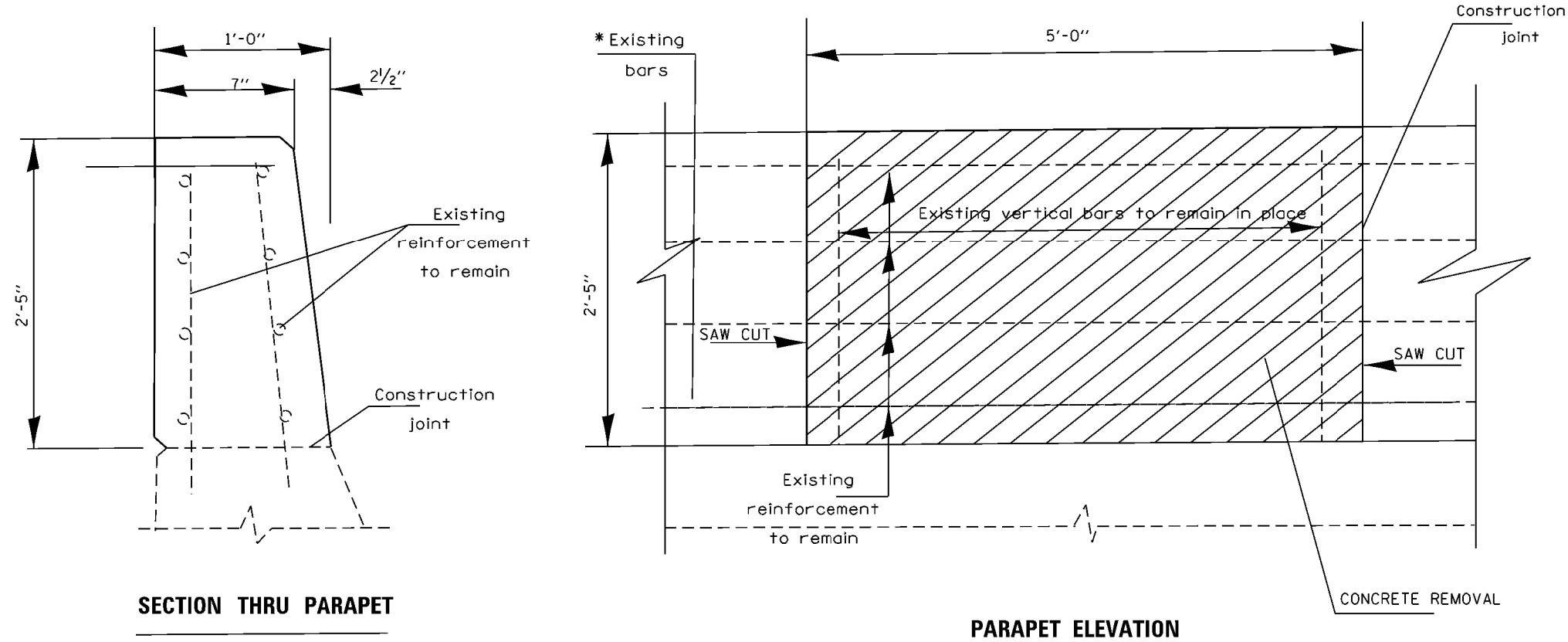


LOCATION 9. HALFL DEPTH BARRIER WALL REPAIR
REPLACE APPROXIMATELY 6 FT OF PARAPET
LOCATED AT I-94 (DAN RYAN) SB RIGHT SIDE
LOCALS AT 29th STREET

NOTE

EXISTING REINFORCEMENT BARS EXTENDING INTO REMOVAL SHALL BE
CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION.

LOCATION 23 ONLY:
REPAIRING THIS LOCATION WILL REQUIRE THE CONTRACTOR TO CLOSE
THE RIGHT LANE OF THE SB DAN RYAN ELEVATED FROM APPROXIMATELY
CANALPORT AVE TO PAST THE EXPRESS LOCALS SPLIT, CLOSE THE NB I-55
TO SB DAN RYAN EXIT AND DETOUR TRAFFIC TO I-55 AT MARTIN LUTER KING
AND BACK SB ON I-55 TO EXIT SB DAN RYAN. THE CONTRACTOR MAY ALSO
OPT TO DETOUR TRAFFIC TO NB DAN RYAN AND TURN THEM AROUND AT
CANALPORT AVE. THE CONTRACTOR WILL THEN NEED TO WEAVE ALL
TRAFFIC FROM THE LEFT LANE TO THE RIGHT OF THE SB DAN RYAN
LOCAL LANES BETWEEN EXPRESS/LOCALS SPLIT AND THE REPAIR SITE.
WORK AT THIS LOCATION SHALL FOLLOW THE MOST RESTRICTIVE HOURS
IN THE KEOTT SPECIAL PROVISION DUE TO CLOSING OF THE SYSTEM TO
SYSTEM RAMP NB I-55 TO SB DAN RYAN EXIT.



SECTION THRU PARAPET

PARAPET ELEVATION

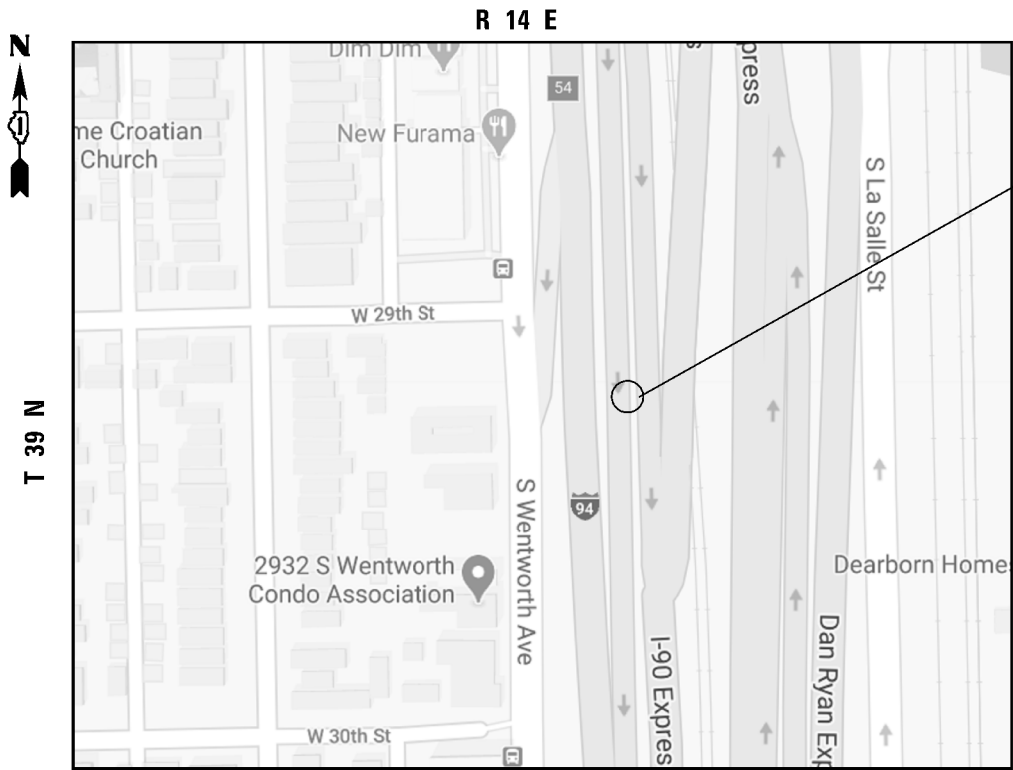
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PROJECT: 140920/CADD/Design/140920_sht_paran.dgn
OFFICE: District 1
DATE: 4/20/2020

USER NAME = gorenautab	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 4/20/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 9			
I-94 SB AT 29th STREET			
SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	31
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				



LOCATION 10
SB I-94 LOCALS
AT 30th ST
RIGHT SIDE



LOCATION 10. HALF DEPTH BARRIER WALL REPAIR
REPLACE APPROXIMATELY 16 FT (2 SECTIONS)
OF PARAPET LOCATED AT I-94 (DAN RYAN) SB
LOCALS RIGHT SIDE JUST PAST 31st ST EXIT

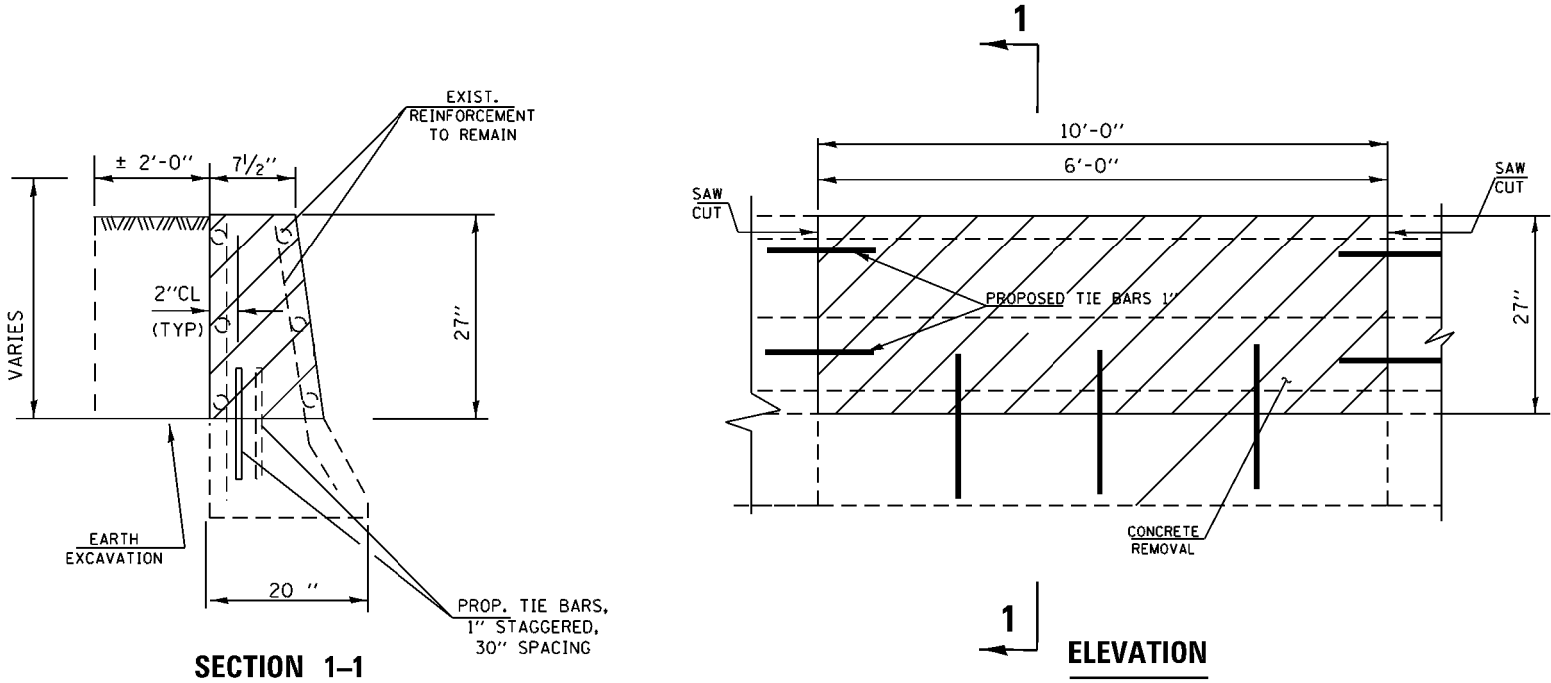
CITY OF CHICAGO
SOUTH CHICAGO TOWNSHIP, COOK COUNTY

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU. YDS	1.2
CONCRETE STRUCTURES	CU. YDS	1.2
TIE BARS	EACH	16
SAW CUT	FOOT	6.0
EARTH EXCAVATION	CU. YDS	2.7
TEMPORARY EROSION CONTROL BLANKET	SQ. YDS	4.0
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	0.6
SEEDING CLASS 2A	ACRE	0.001
PROTECTIVE COAT	SQ. YDS	2.7

TRAFFIC DATA

I-94
2019 ADT = 301200
SPEED LIMIT = 55 MPH



NOTE

EXISTING REINFORCEMENT BARS EXTENDING INTO REMOVAL SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION.

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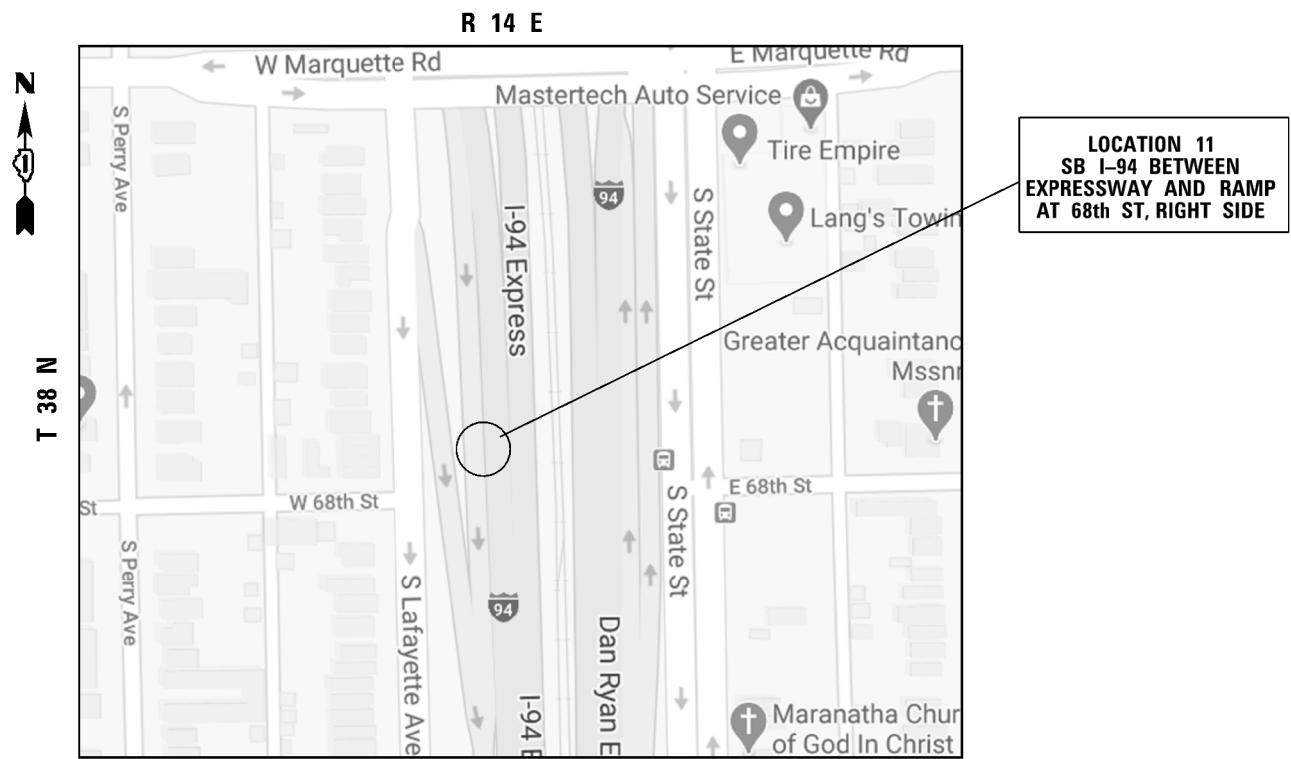
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DRAWN -	REVISED -	
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PLOT DATE = 3/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 10
I-94 (DAN RYAN) SB LOCALS AT 30th ST

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	32
				CONTRACT NO. 62K98
		ILLINOIS	FED. AID PROJECT	



CITY OF CHICAGO
LAKE TOWNSHIP, COOK COUNTY



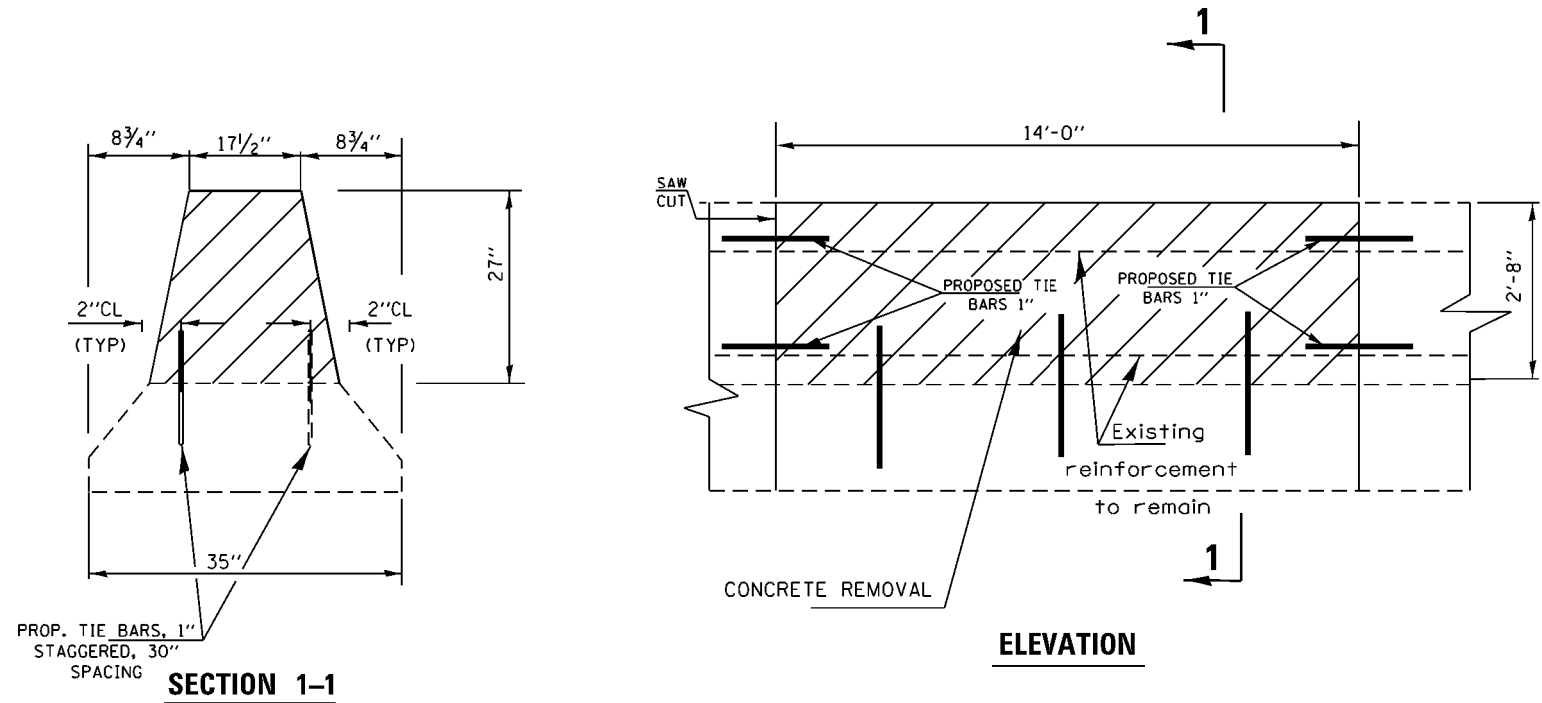
LOCATION 11. PARTIAL DEPTH BARRIER WALL REPAIR
REPLACE APPROXIMATELY 14' OF PARAPET
LOCATED AT I-94 (DAN RYAN) SB MEDIAN
AT 68th STREET BETWEEN EXPRESSWAY AND RAMP

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE STRUCTURES	CU. YDS	2.2
CONCRETE REMOVAL	CU. YDS	2.2
PROTECTIVE COAT	SQ. YDS	10.0
SAW CUT	FOOT	4.5
TIE BARS	EACH	10

NOTE

EXISTING REINFORCEMENT BARS EXTENDING INTO REMOVAL SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION.



TRAFFIC DATA	
I-94	
2019 ADT =	261800
SPEED LIMIT =	55 MPH

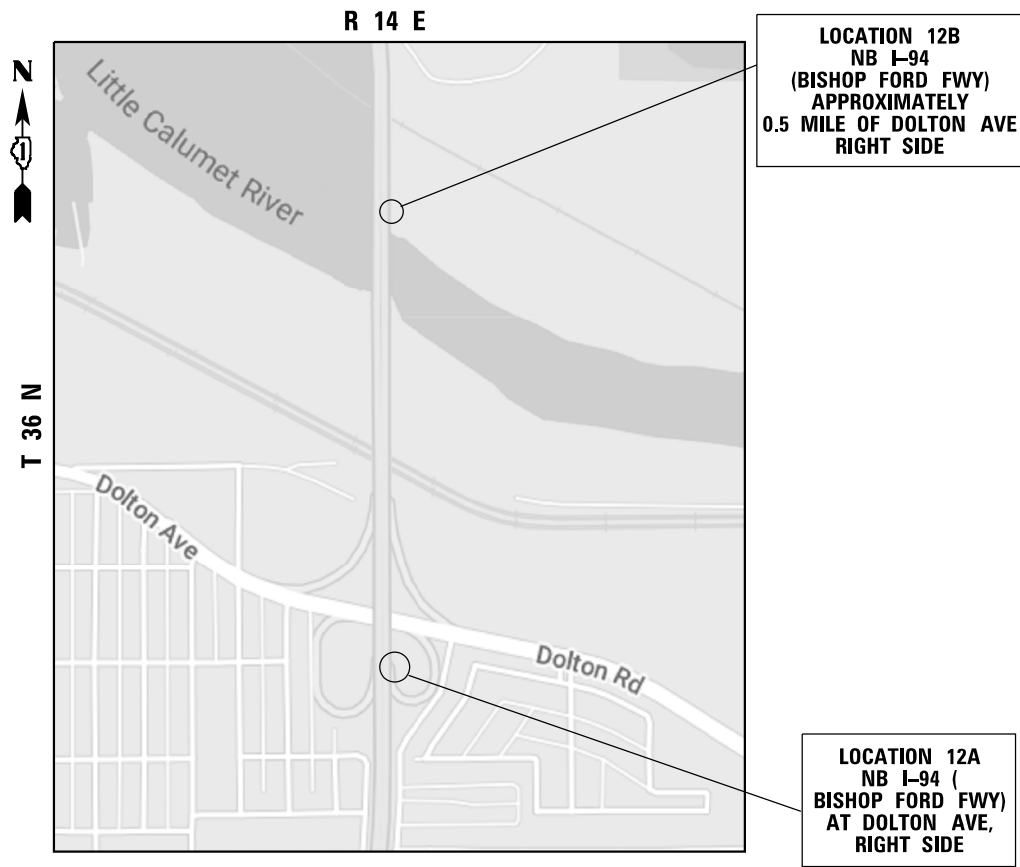
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DESIGN: 2020-027-BR&I - 62K98.dgn
DATE: 3/26/2020

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DRAWN -	REVISOR -	REVISOR -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISOR -
PLOT DATE = 3/26/2020	DATE -	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 11			
I-94 SB MEDIAN BETWEEN EXPRESSWAY AND RAMP AT 68th ST			
SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	33
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				



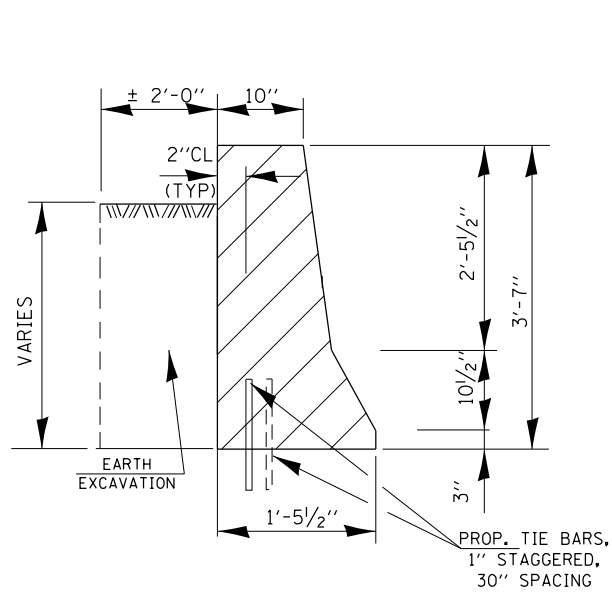
CITY OF CALUMET AND VILLAGE OF DOLTON
THORNTON TOWNSHIP, COOK COUNTY



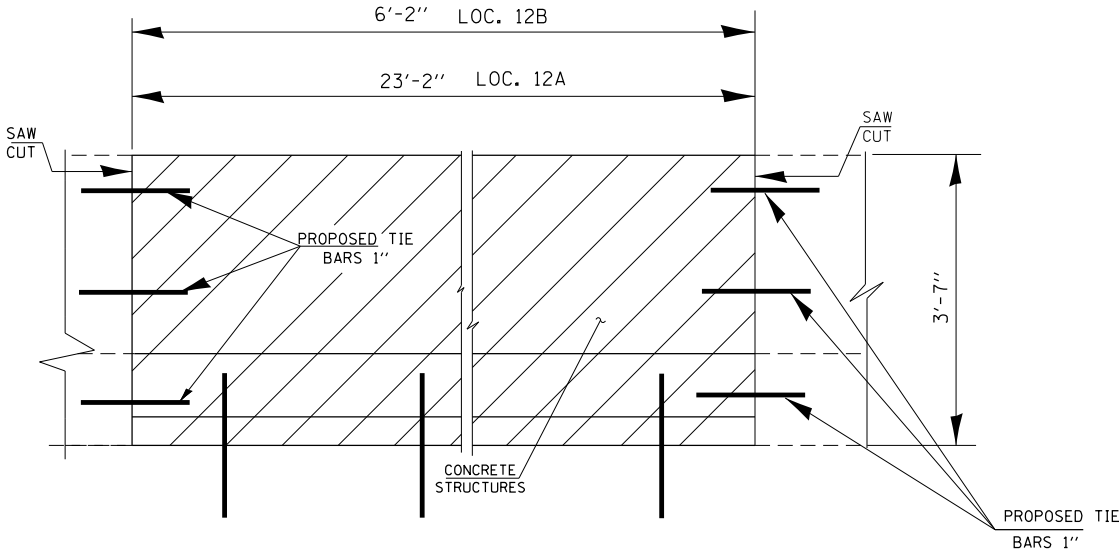
LOCATION 12B. FULL DEPTH PARAPET REPAIR
REPLACE APPROXIMATELY 6'-2" OF PARAPET
LOCATED AT I-94 (BISHOP FORD FWY) NB
APPROXIMATELY 0.5 MILE OF DOLTON AVE
RIGHT SIDE



LOCATION 12A. FULL DEPTH BARRIER WALL REPAIR
REPLACE APPROXIMATELY 23'-2" OF PARAPET
LOCATED AT I-94 (BISHOP FORD FWY) NB
AT DOLTON AVE RIGHT SIDE



SECTION THRU BARRIER WALL



ELEVATION

TRAFFIC DATA

I-94 (BISHOP FORD FWY)
2019 ADT = 143800
SPEED LIMIT = 55 MPH

BILL OF MATERIALS

ITEM	UNIT	QUANTITY	
		12A	12B
CONCRETE STRUCTURES	CU. YDS	3.5	1.0
CONCRETE REMOVAL	CU. YDS	3.5	1.0
TIE BARS	EACH	16	9
SAW CUT	FOOT	7.5	7.5
EARTH EXCAVATION	CU. YDS	3.5	0.9
TEMPORARY EROSION CONTROL BLANKET	SQ. YDS	5.5	1.5
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	0.85	0.25
SEEDING CLASS 2A	ACRE	0.001	0.0001
PROTECTIVE COAT	SQ. YDS	12.0	3.5

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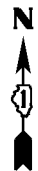
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PLOT DATE = 3/27/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 12A AND 12B
I-94 (BISHOP FORD FWY) NB AT DOLTON AVE

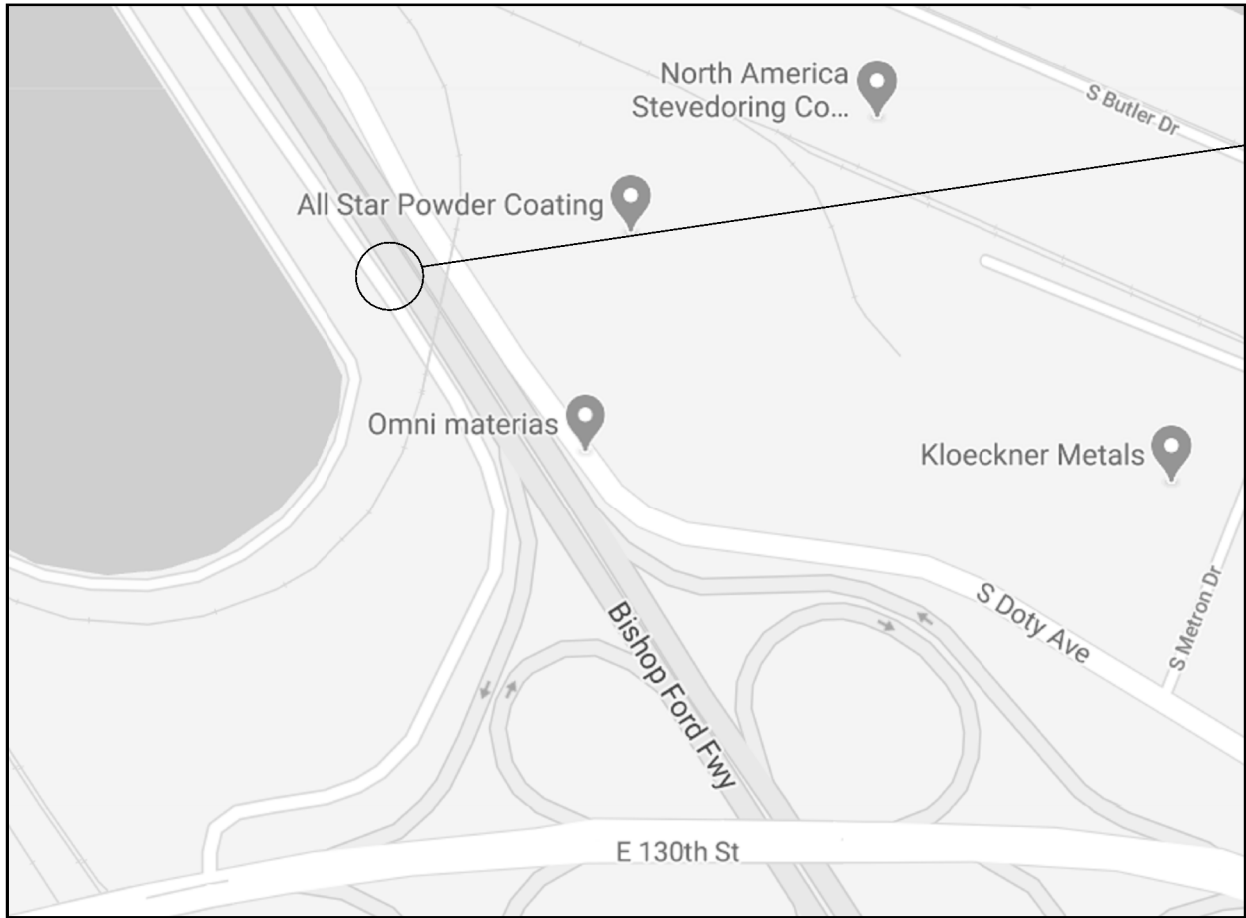
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	34
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				



T 37 N

R 14 E



CITY OF CHICAGO
HYDE PARK TOWNSHIP, COOK COUNTY

LOCATION 13
SB I-94
(BISHOP FORD FWY)
APPROXIMATELY
0.3 MILE OF 130th ST
LEFT SIDE



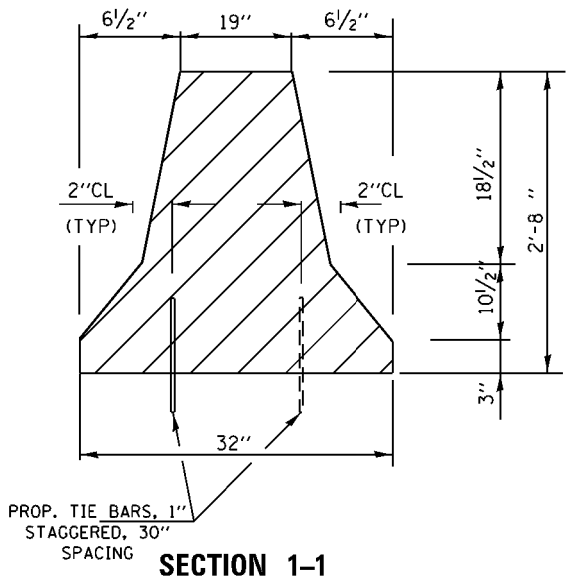
LOCATION 13. FULL DEPTH BARRIER WALL REPAIR
REPLACE APPROXIMATELY 17 FT OF PARAPET
LOCATED AT I-94 (BISHOP FORD FWY) SB
APPROXIMATELY 0.3 MILE NORTH OF
130th ST, LEFT SIDE

BILL OF MATERIALS

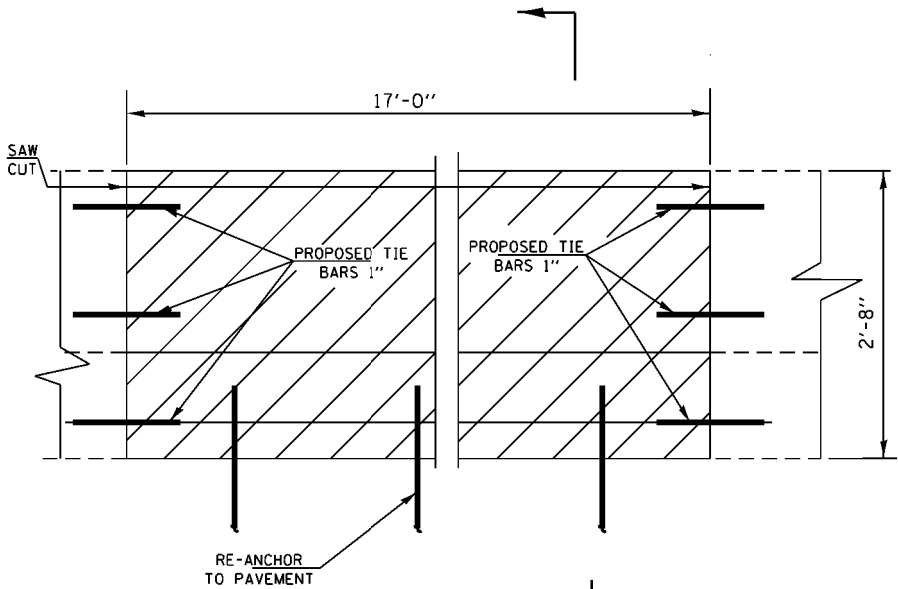
ITEM	UNIT	QUANTITY
CONCRETE STRUCTURES	CU. YDS	3.6
CONCRETE REMOVAL	CU. YDS	3.6
PROTECTIVE COAT	SQ. YDS	13.5
SAW CUT	FOOT	5.5
TIE BARS	EACH	13

TRAFFIC DATA

I-94 (BISHOP FORD FWY)
2019 ADT = 155100
SPEED LIMIT = 55 MPH



SECTION 1-1



ELEVATION

1

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DATE: 3/26/2020

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PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 3/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 13
I-94 (BISHOP FORD FWY) SB 0.3 MILE NORTH OF 130th ST

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

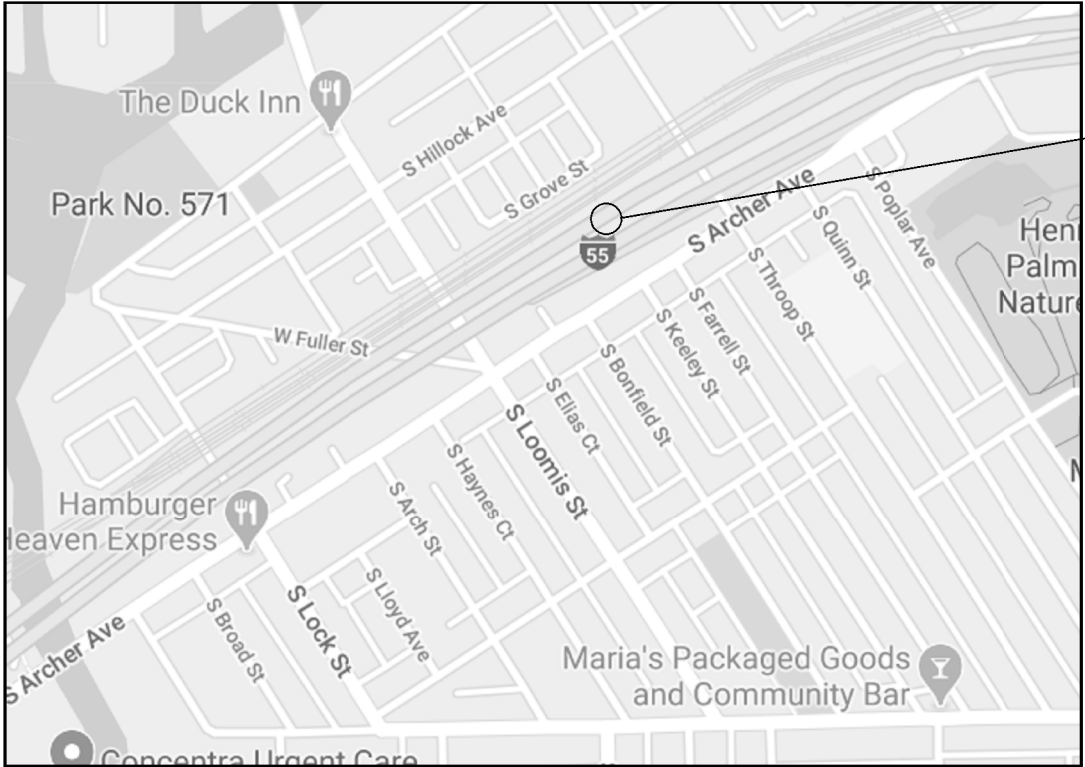
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	35
				CONTRACT NO. 62K98
ILLINOIS FED. AID PROJECT				



R 14 E



T 39 N



LOCATION 15
SB I-55
AT LOOMIS ST
LEFT SIDE

TRAFFIC DATA

I-55
2019 ADT = 169200
SPEED LIMIT = 55 MPH



LOCATION 15. HALF DEPTH BARRIER WALL REPAIR
REPLACE 16 FT OF PARAPET LOCATED AT I-55 SB
AT APPROXIMATELY LOOMIS ST LEFT SIDE

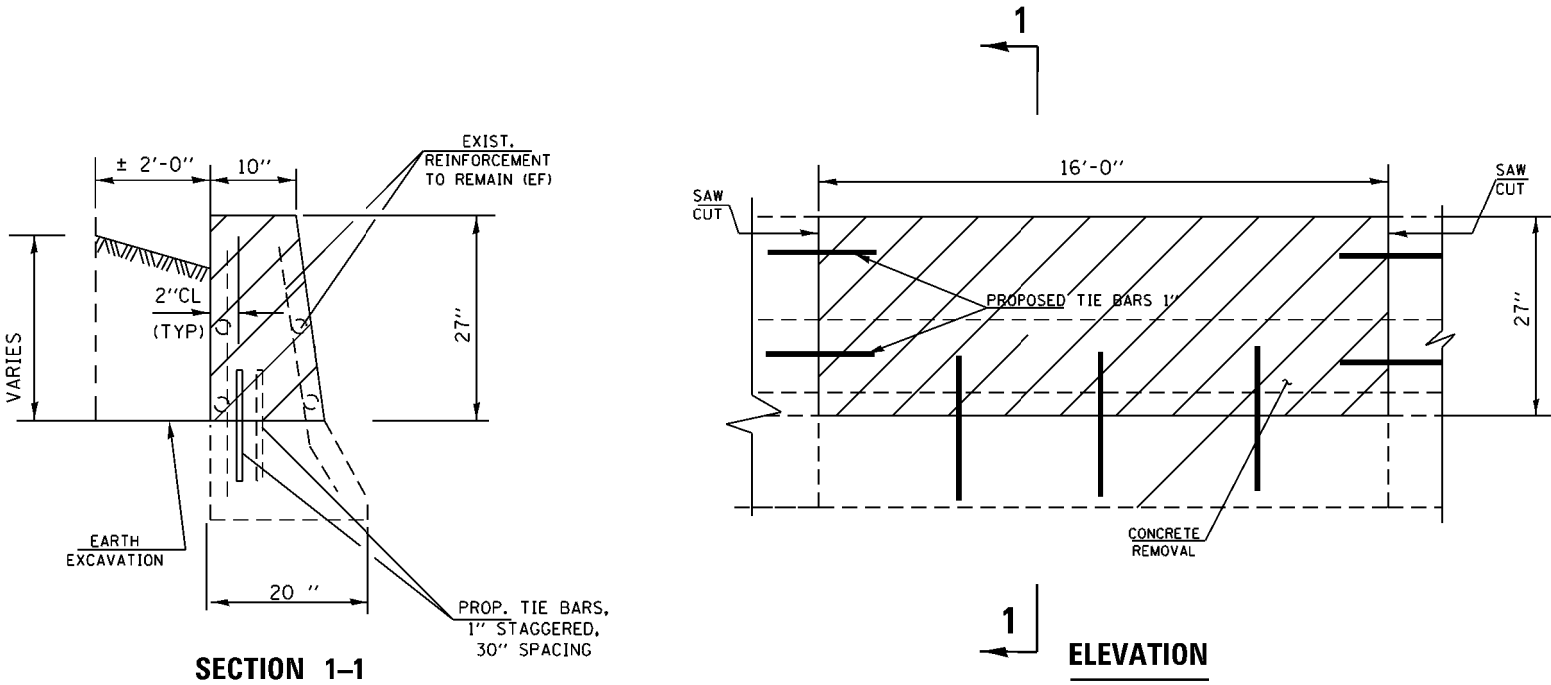
BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU. YDS	1.3
CONCRETE STRUCTURES	CU. YDS	1.3
TIE BARS	EACH	10
SAW CUT	FOOT	4.5
EARTH EXCAVATION	CU. YDS	3.0
TEMPORARY EROSION CONTROL BLANKET	SQ. YDS	4.0
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	0.6
SEEDING CLASS 2A	ACRE	0.001
PROTECTIVE COAT	SQ. YDS	5.5

NOTE

EXISTING REINFORCEMENT BARS EXTENDING INTO REMOVAL SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION.

CONTRACTOR IS REQUIRED TO NOTIFY PACE BUS BEFORE STARTING WORK AT THIS LOCATION. ALL CONCRETE FORMS SHOULD INCLUDE LOW PROFILE TIE RODS TO REDUCE ENCROACHMENT INTO SHOULDERS. ALL SHOULDER CLOSURES SHALL ADHERE TO DISTRICT STANDARDS TC-17.



SECTION 1-1

ELEVATION

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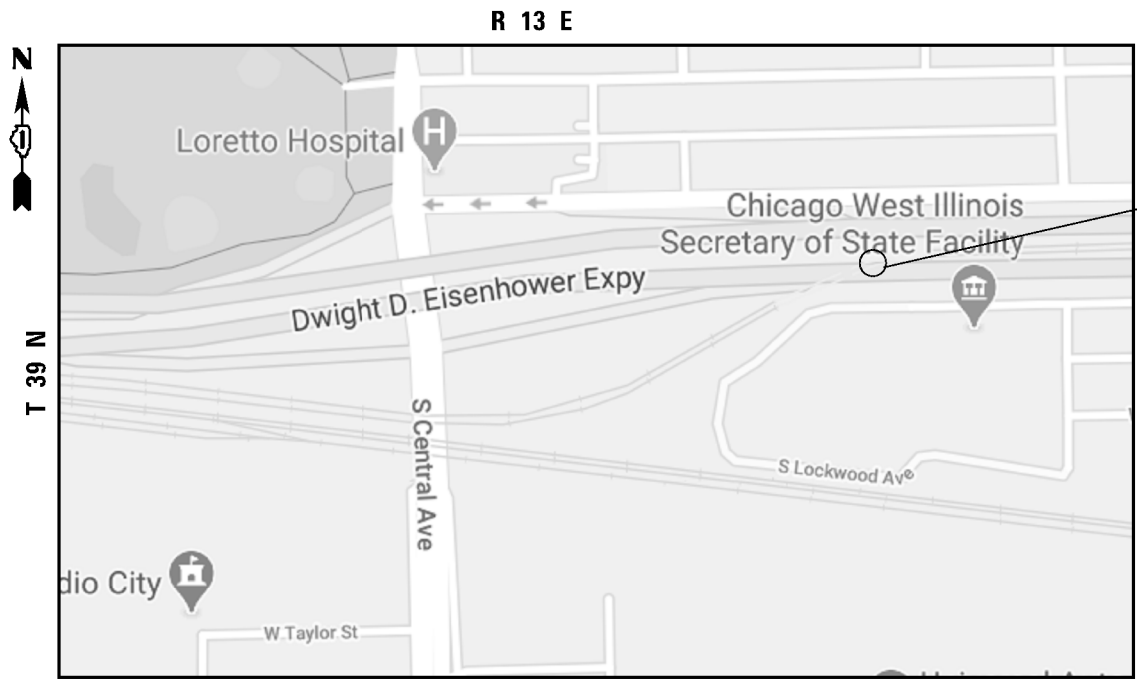
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PLOT DATE = 3/27/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 15
I-55 SB AT LOOMIS STREET

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	37
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				



CITY OF CHICAGO
WEST CHICAGO TOWNSHIP, COOK COUNTY

LOCATION 16
EB I-290
AT CENTRAL AVE
LEFT SIDE

TRAFFIC DATA

I-290
2019 ADT = 184900
SPEED LIMIT = 55 MPH

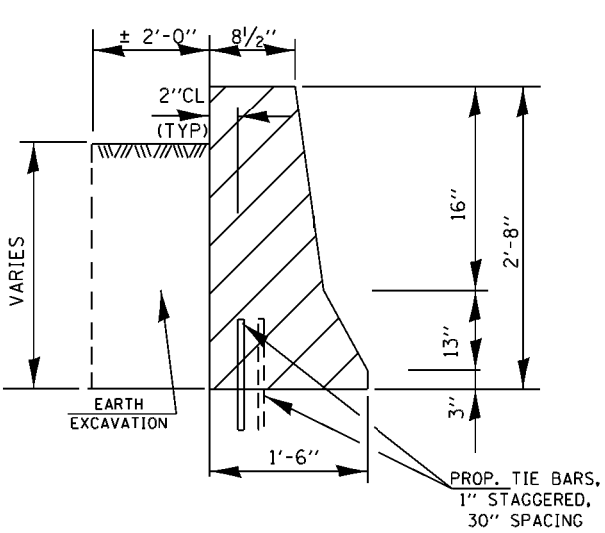


LOCATION 16. FULL DEPTH BARRIER WALL REPAIR
REPLACE 12 FT OF PARAPET LOCATED AT I-290 EB
AT E OF CENTRAL AVE LEFT SIDE

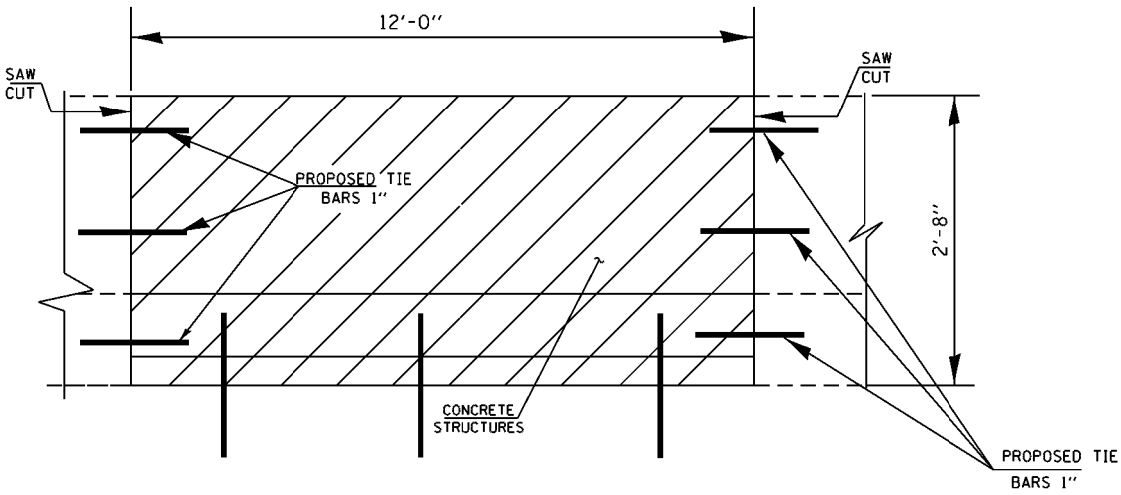
BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU. YDS	1.4
CONCRETE STRUCTURES	CU. YDS	1.4
TIE BARS	EACH	11
SAW CUT	FOOT	5.5
EARTH EXCAVATION	CU. YDS	2.2
TEMPORARY EROSION CONTROL BLANKET	SQ. YDS	3.0
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	0.5
SEEDING CLASS 2A	ACRE	0.001
PROTECTIVE COAT	SQ. YDS	3.0

THE CONTRACTOR MUST COORDINATE WITH THE DISTRICT BRIDGE OFFICE, ATTENTION JOHN BILSKI, 847-956-1444-1445 TO RECOVER ALL GUARD RAIL HARDWARE INSTALLATIONS.



SECTION THRU BARRIER WALL



ELEVATION

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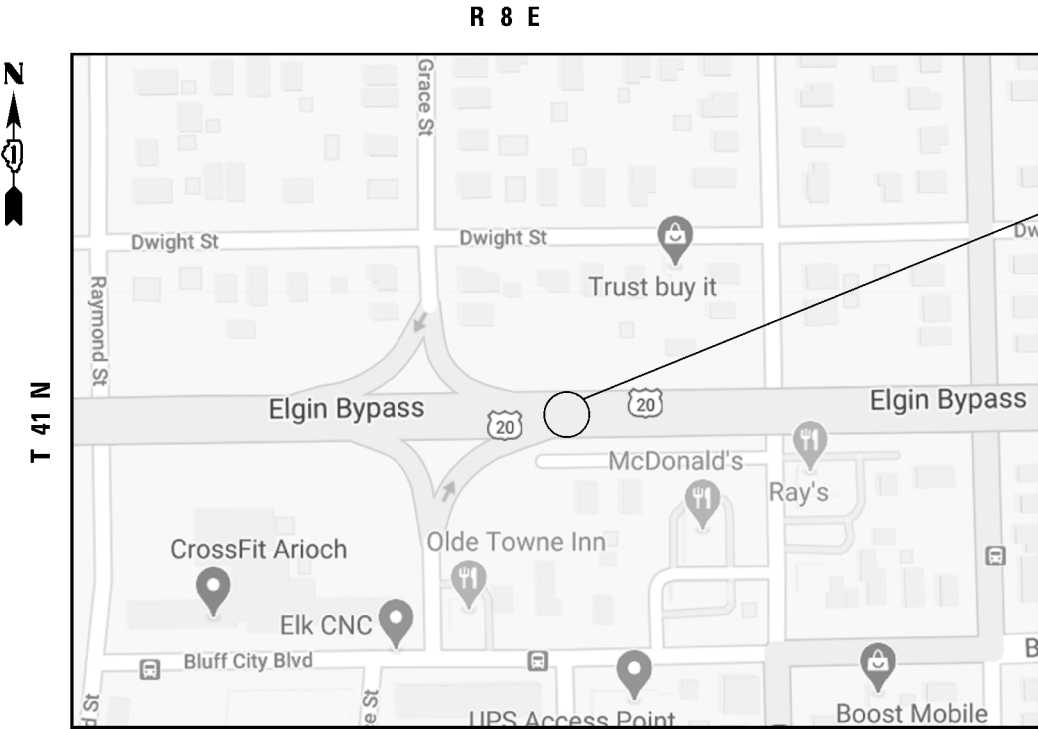
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PLOT DATE	= 3/27/2020	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 16
I-290 EB AT CENTRAL AVE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	38
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				



LOCATION 17
US 20
120 FT WEST OF
GRACE ST, ELGIN

TRAFFIC DATA

US 20

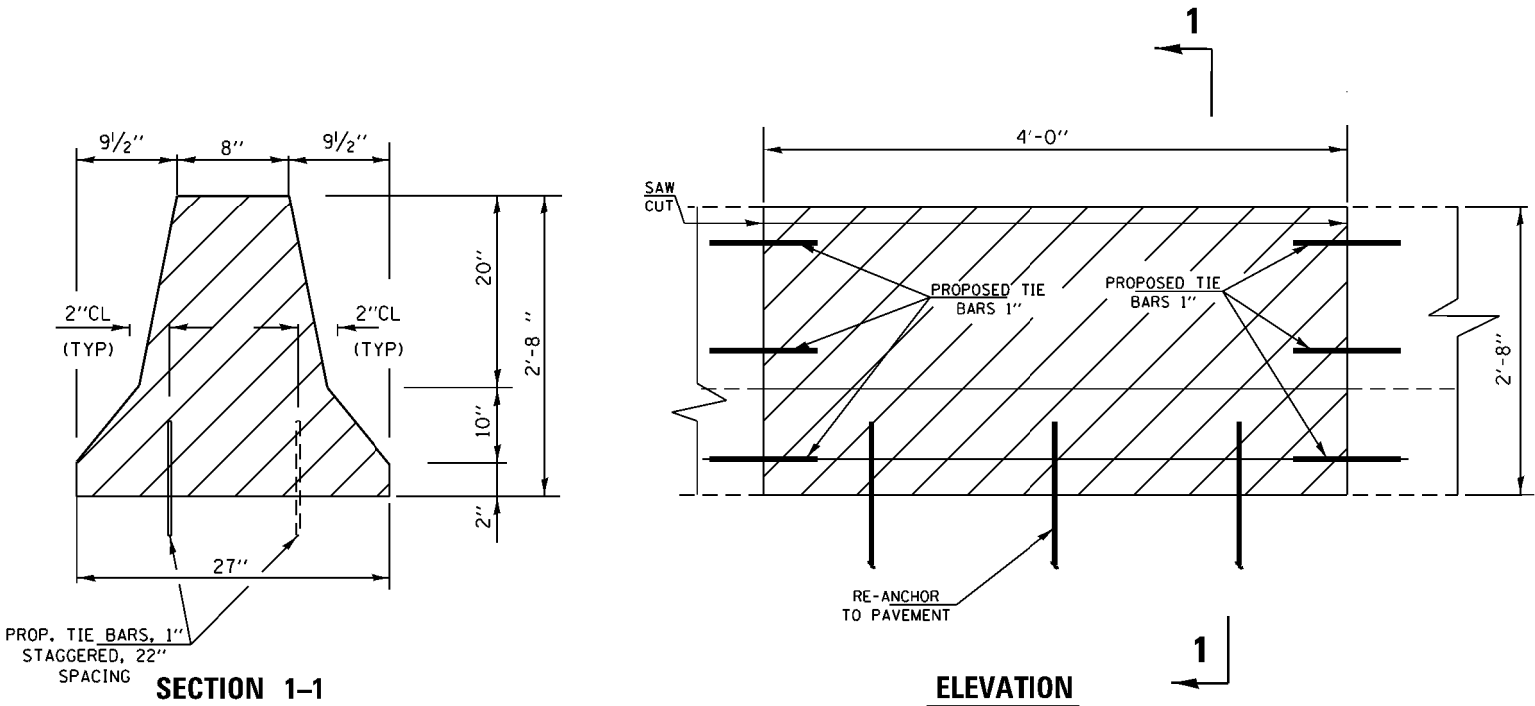
2019 ADT = 51100

SPEED LIMIT = 55 MPH

VILLAGE OF ELGIN
ELGIN TOWNSHIP, KANE COUNTY



LOCATION 17. FULL DEPTH MEDIAN BARRIER WALL REPAIR
REPLACE APPROXIMATELY 4 FT OF PARAPET
LOCATED AT 120 FT WEST OF GRACE ST IN ELGIN



BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE STRUCTURES	CU. YDS	0.40
CONCRETE REMOVAL	CU. YDS	0.40
PROTECTIVE COAT	SQ. YDS	1.6
SAW CUT	FOOT	5.5
TIE BARS	EACH	9

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PLOT DATE = 3/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 17 US 20 AT GRACE STREET			
SCALE:	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	39
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				



T 41 N

R 9 E



LOCATION 18
US 20
120 FT WEST OF
POPLAR CREEK, ELGIN

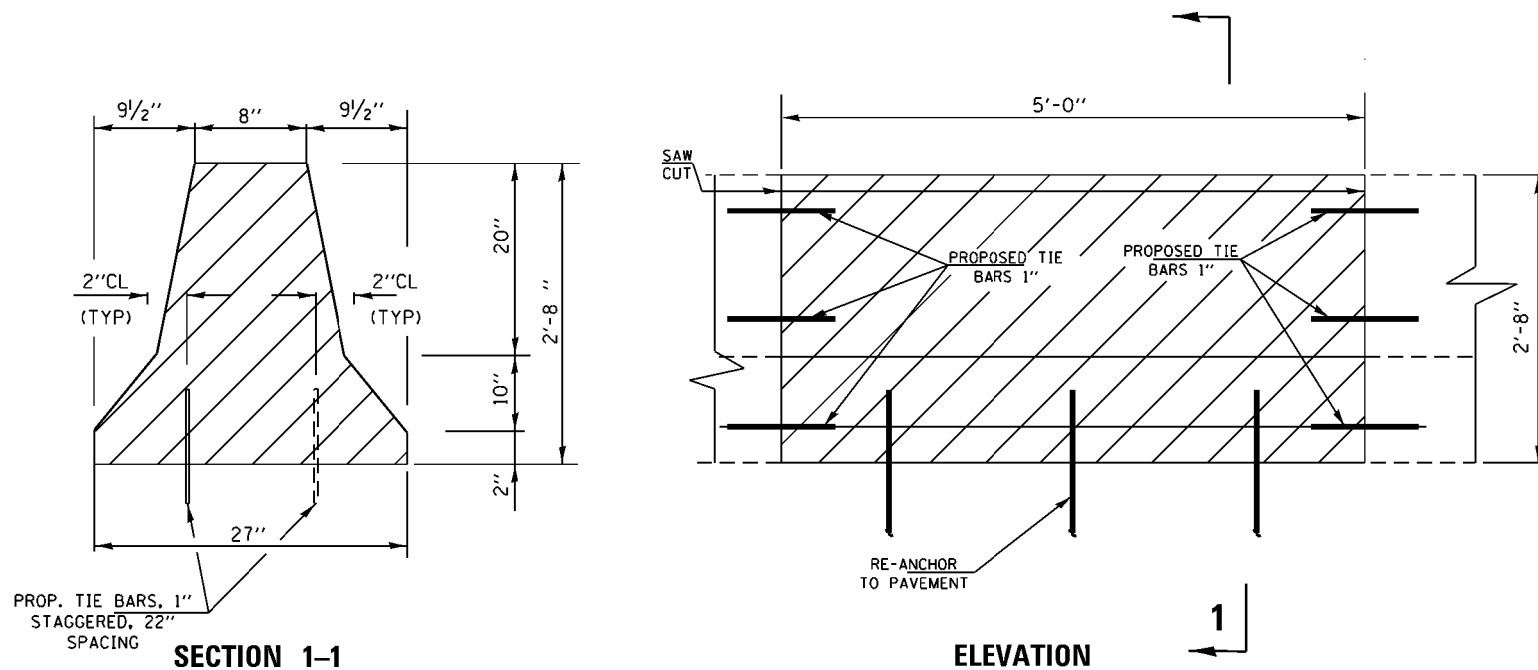
TRAFFIC DATA

US 20
2019 ADT = 51100
SPEED LIMIT = 55 MPH

VILLAGE OF ELGIN
ELGIN TOWNSHIP, KANE COUNTY



LOCATION 18. FULL DEPTH MEDIAN BARRIER WALL REPAIR
REPLACE APPROXIMATELY 5 FT OF PARAPET LOCATED
AT 120 FT WEST OF POPLAR CREEK IN ELGIN



BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE STRUCTURES	CU. YDS	0.50
CONCRETE REMOVAL	CU. YDS	0.50
PROTECTIVE COAT	SQ. YDS	2.0
SAW CUT	FOOT	5.5
TIE BARS	EACH	9

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PLOT DATE = 3/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 18 US 20 AT POPLAR CREEK			
SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	40
				CONTRACT NO. 62K98
				ILLINOIS FED. AID PROJECT



**VILLAGE OF HIGHLAND PARK
MORaine TOWNSHIP. LAKE COUNTY**

**LOCATION 19
US 41 NB
AT CLAVEY RD
0.25 MILE N. OF
LAKE COOK RD**



**WOOD LAMINATE NOISE WALL
REPLACE 10 FT X 15 FT OF WALL PANELS
ON TOP OF CONCRETE BARRIER WALL
(EXACT PANEL LOCATION TO BE DETERMINED IN FIELD)**

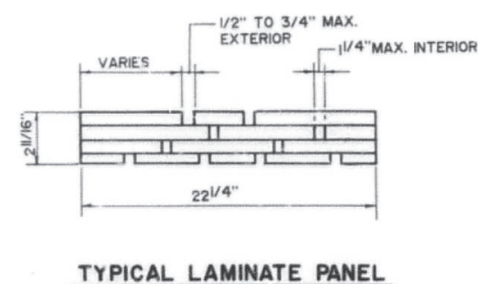
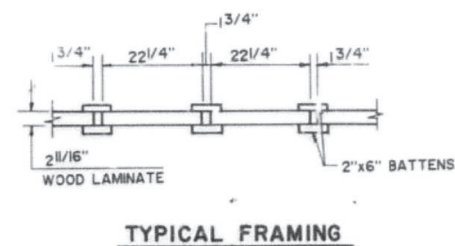
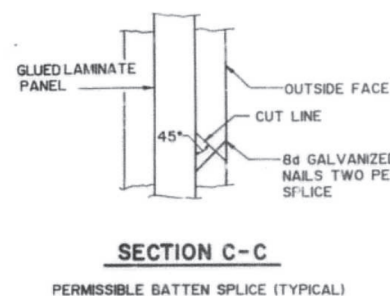
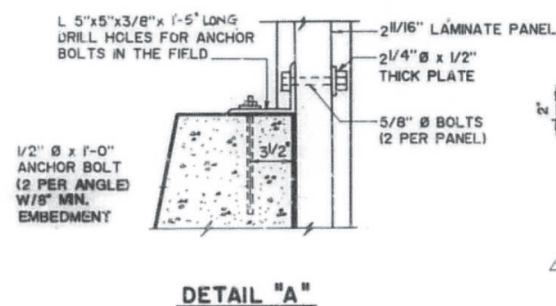
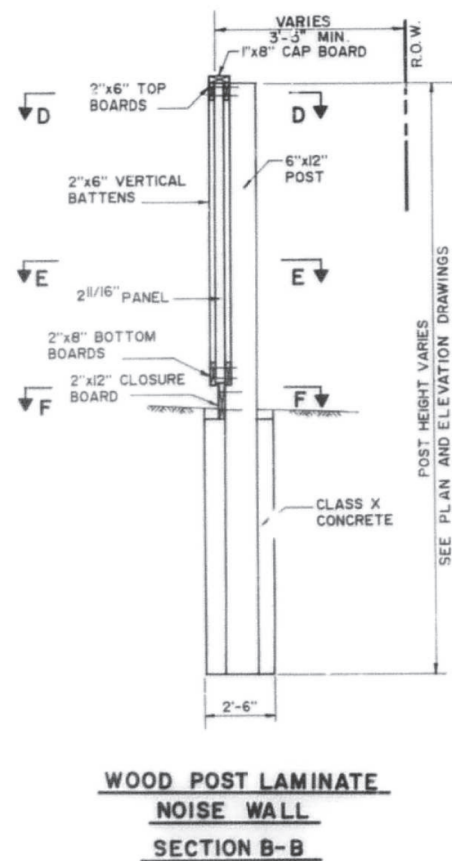
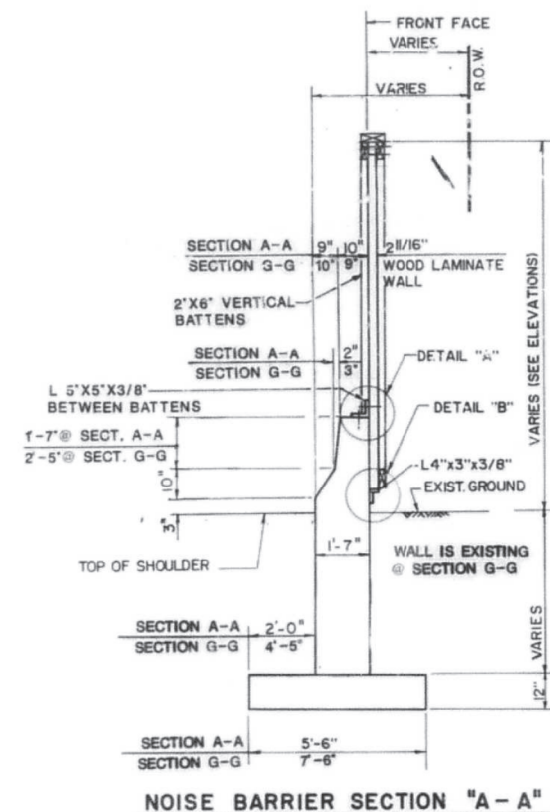
BILL OF MATERIALS

ITEM	UNIT	QUANTITY
NOISE ABATEMENT WALL REPAIR	L SUM	0.25
TEMPORARY EROSION CONTROL BLANKET	SQ. YDS	5.0
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	0.75
SEEDING CLASS 2A	ACRE	0.001

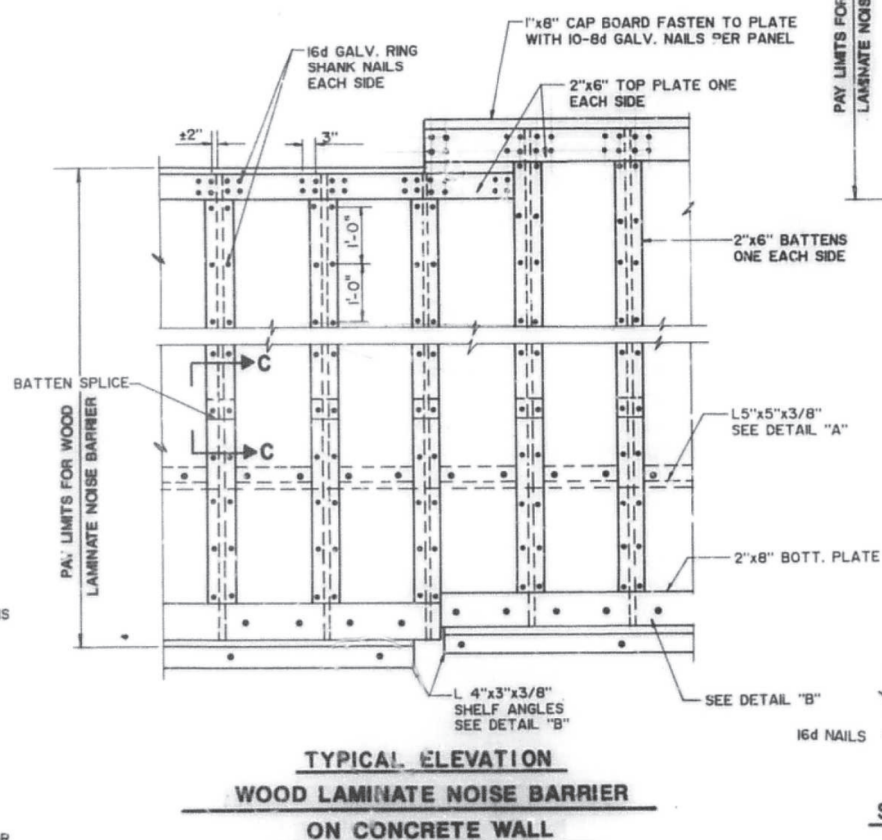
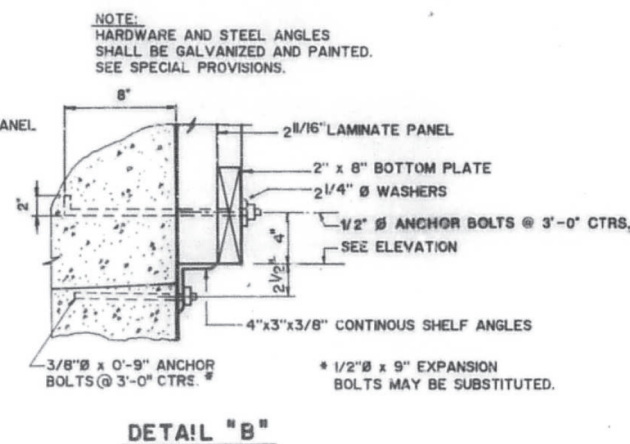
SEE SHEET 2 FOR PANEL INFORMATION

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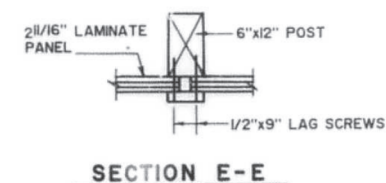
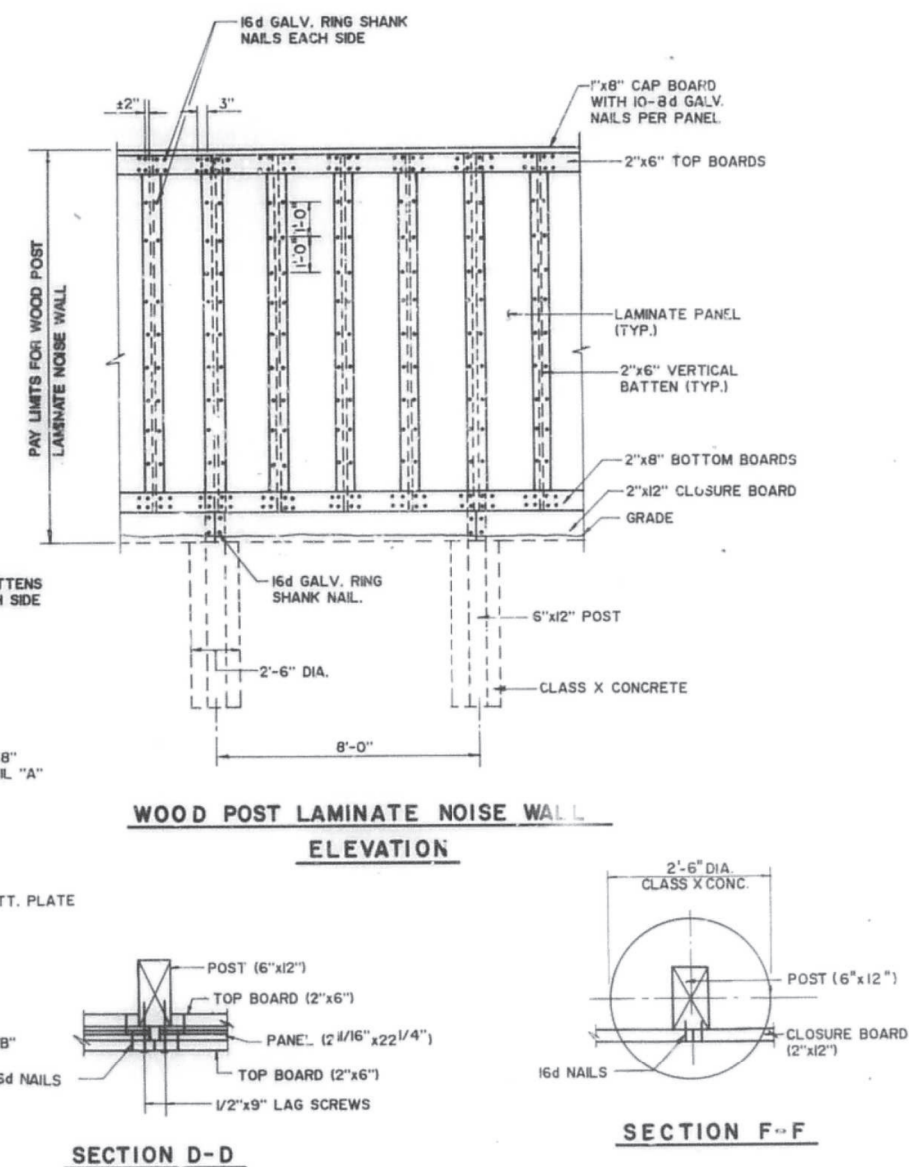
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		DRAWN -	REVISED -						VAR.	2020-027-BR&I	VARIOUS	59	41
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -						CONTRACT NO. 62K98				
	PLOT DATE = 3/26/2020	DATE -	REVISED -		SCALE:	SHEET 1	OF 2 SHEETS	STA.	TO STA.				
											ILLINOIS	FED. AID PROJECT	



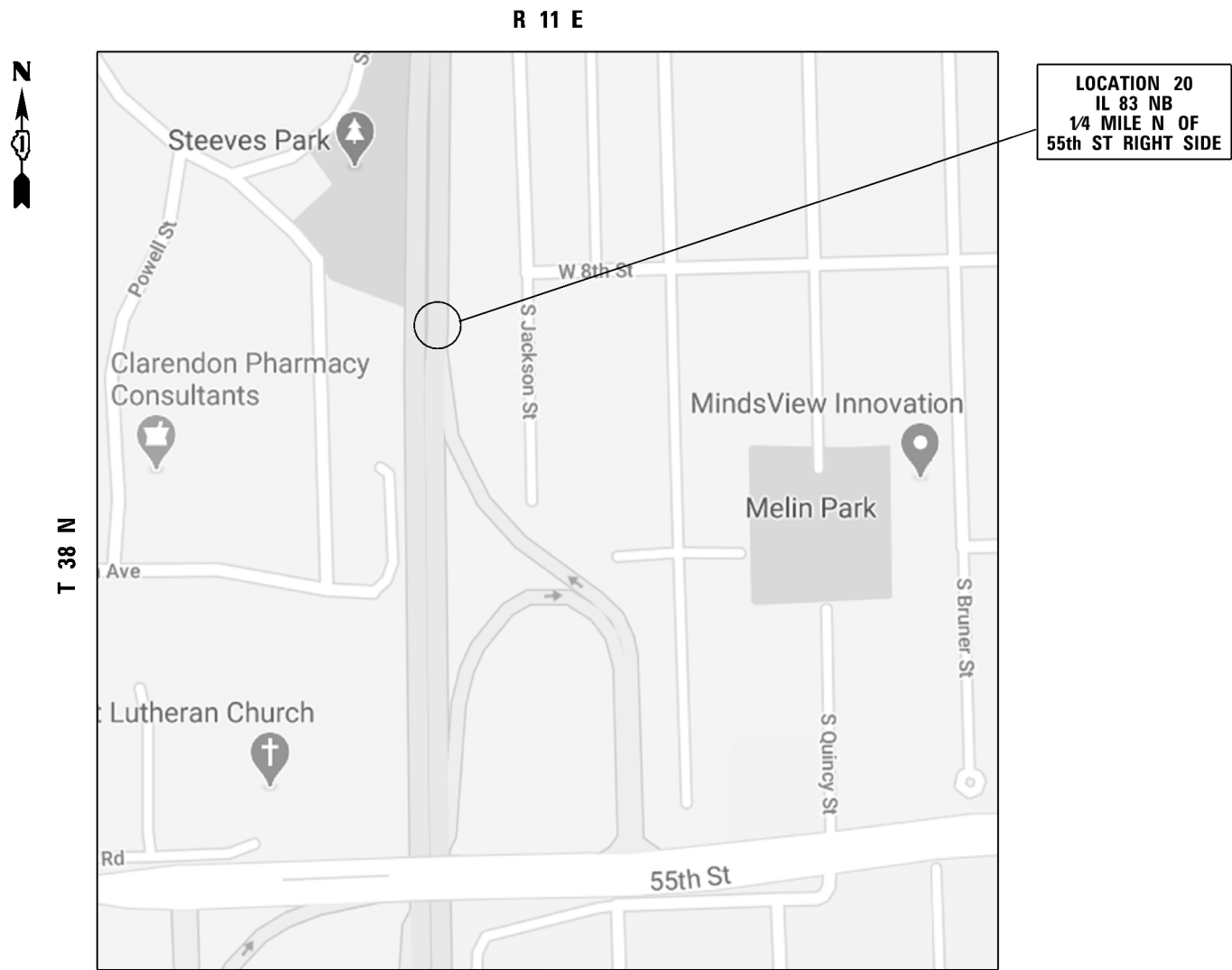
NOTE:
DRILLING AND CLASS X CONCRETE AT WOOD POST
SHALL BE INCIDENTAL TO THE ITEM OF WOOD
POST LAMINATE NOISE WALL.



<u>BILL OF MATERIAL</u>		
ITEM	UNIT	QUANTITY
CLASS X CONCRETE	C.Y.	135
REINFORCEMENT BARS	LB.	8730
REINFORCEMENT BARS (EPOXY COATED)	LB.	8230
WOOD LAMINATE NOISE BARRIER	S.F.	4976
STRUCTURE EXCAVATION	C.Y.	484
WOOD POST LAMINATE NOISE WALL	S.F.	11300
SUB-BASE GRAN MAT, TYPE B 4"	SQ. YD.	122



FOR INFORMATION ONLY



VILLAGE OF HINSDALE
DOWNERS GROVE TOWNSHIP, DU PAGE COUNTY

TRAFFIC DATA

US 41
2019 ADT = 59600
SPEED LIMIT = 55 MPH



WOODEN NOISE WALL
REPLACE 13 FT X 8 FT (H) WALL PANELS
(EXACT PANEL LOCATION TO BE DETERMINED IN FIELD)

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
NOISE ABATEMENT WALL REPAIR	L SUM	0.25
TEMPORARY EROSION CONTROL BLANKET	SQ. YDS	6.0
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	1.0
SEEDING CLASS 2A	ACRE	0.001

SEE SHEET # 2 FOR PANEL INFORMATION

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DATE: 3/26/2020
DRAWN: gorenautab
CHECKED: gorenautab
DATE: 3/26/2020

USER NAME = gorenautab	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/26/2020	DATE -	REVISED -

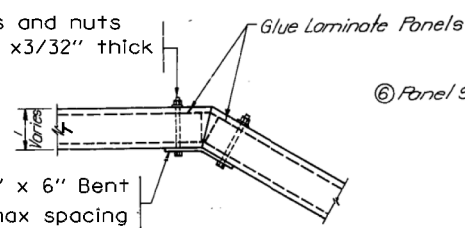
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 20 IL 83 NB NOISE WALL			
SCALE:	SHEET 1 OF 2 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	43
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				

*1/2" o Bolts and nuts with 2" OD x3/32" thick washer

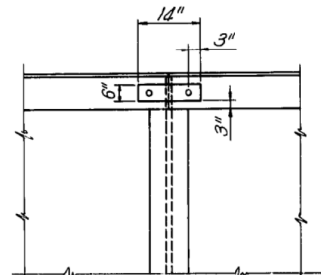
1/2" x 14" x 6" Bent Plate 6' max spacing



TOP VIEW

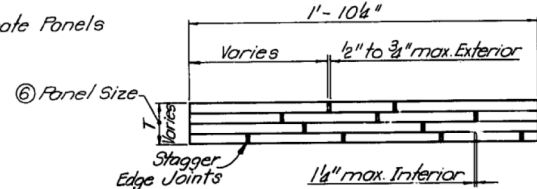
Notes: Plates to be centered on 2x8 and minimum spacing to be four panels. Bent Plate to be used of P.I.'s and corners only.

*All Nuts, Bolts, Washers and Bent Plates shall conform to section 710 of the Standard Specifications as applicable and to the Special Provisions.

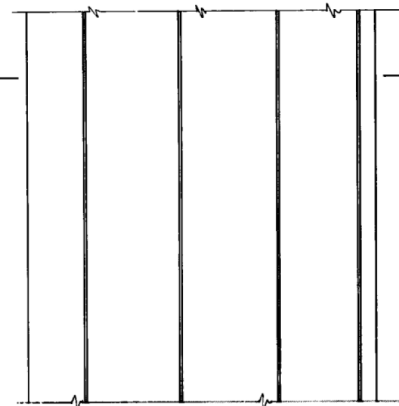


ELEVATION

BENT PLATE DETAIL

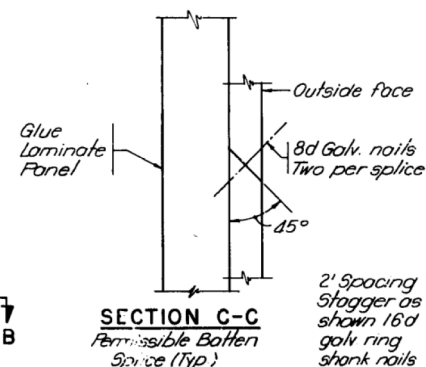


SECTION B-B



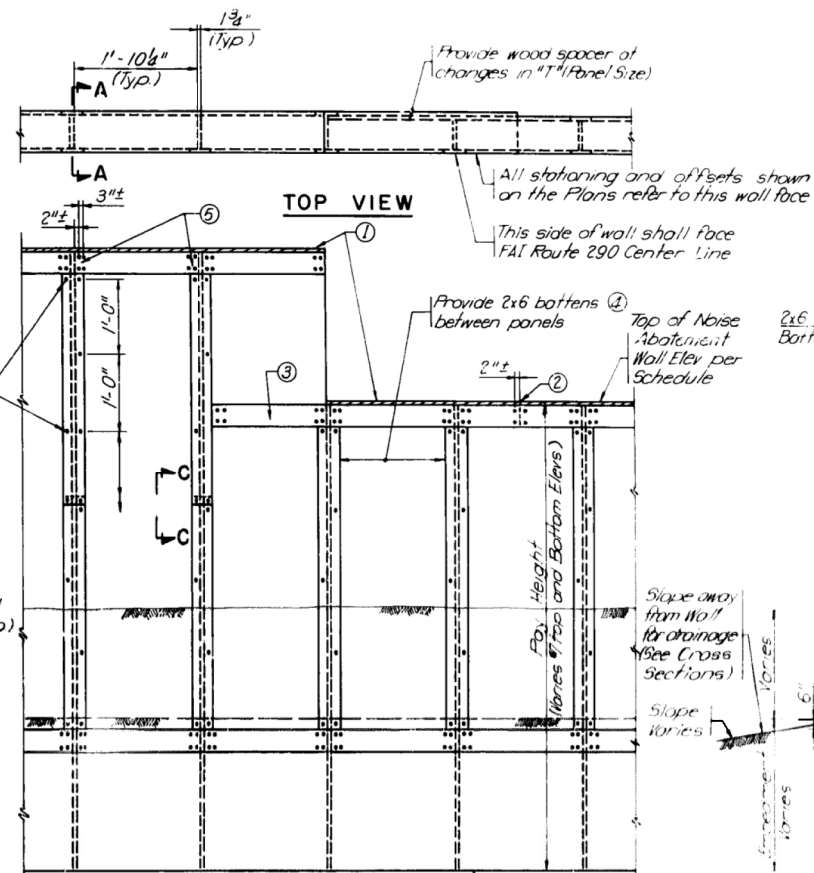
ELEVATION

PANEL DETAIL



SECTION C-C
Permissible Batten
Space (Typ)

- 1" nom. cap board to cover top of panel. Fasten to 2x8's with four 8d galv nails per panel. Incidental to wall construction.
- Minimum distance between opposite splices in top plates is to be 4 ft and approx centered on panel four 16d galv ring shank nails per splice (Typ).
- Overlay 2x8 top plate approximately 1 panel width when changing wall heights.
- On both faces the battens shall be placed on every opening between panels.
- Eight 16d galv ring shank nails per panel top and bottom (Typ) Space as shown.
- Panel size "T" varies, see Wood Laminate Noise Wall schedule.

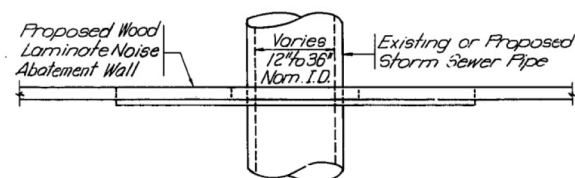


ELEVATION

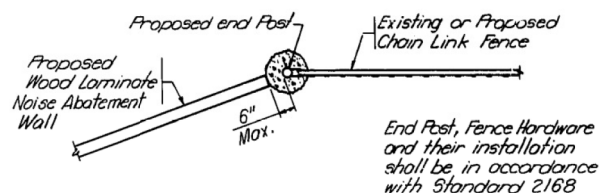
WALL DETAIL

SECTION A-A
With Earth Fill

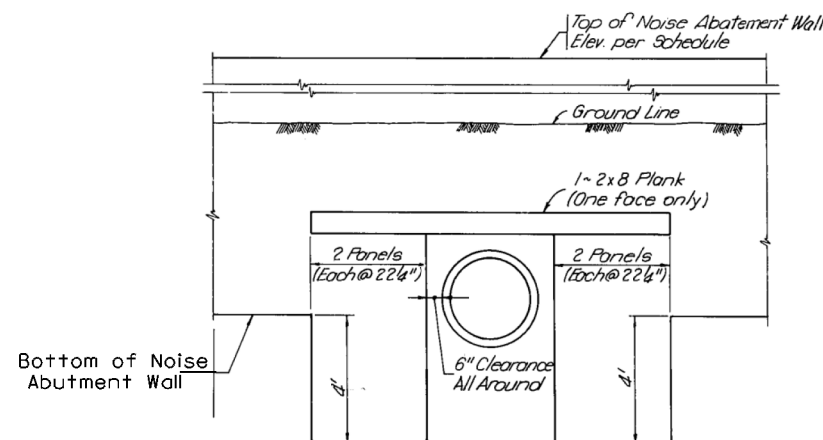
SECTION A-A
Without Earth Fill



PLAN

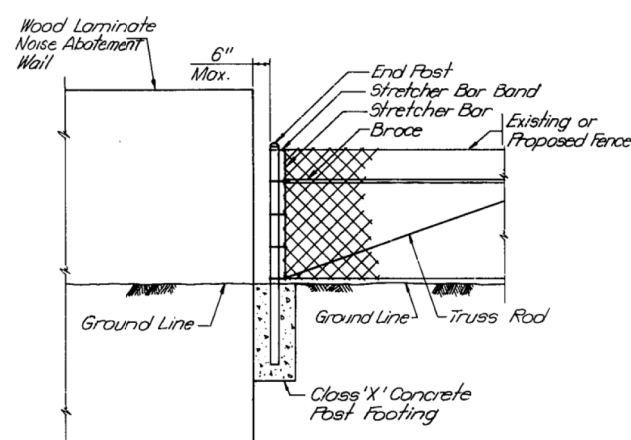


PLAN



ELEVATION

CROSSING STORM SEWER PIPE



ELEVATION

TRANSITION TO A/C FENCE

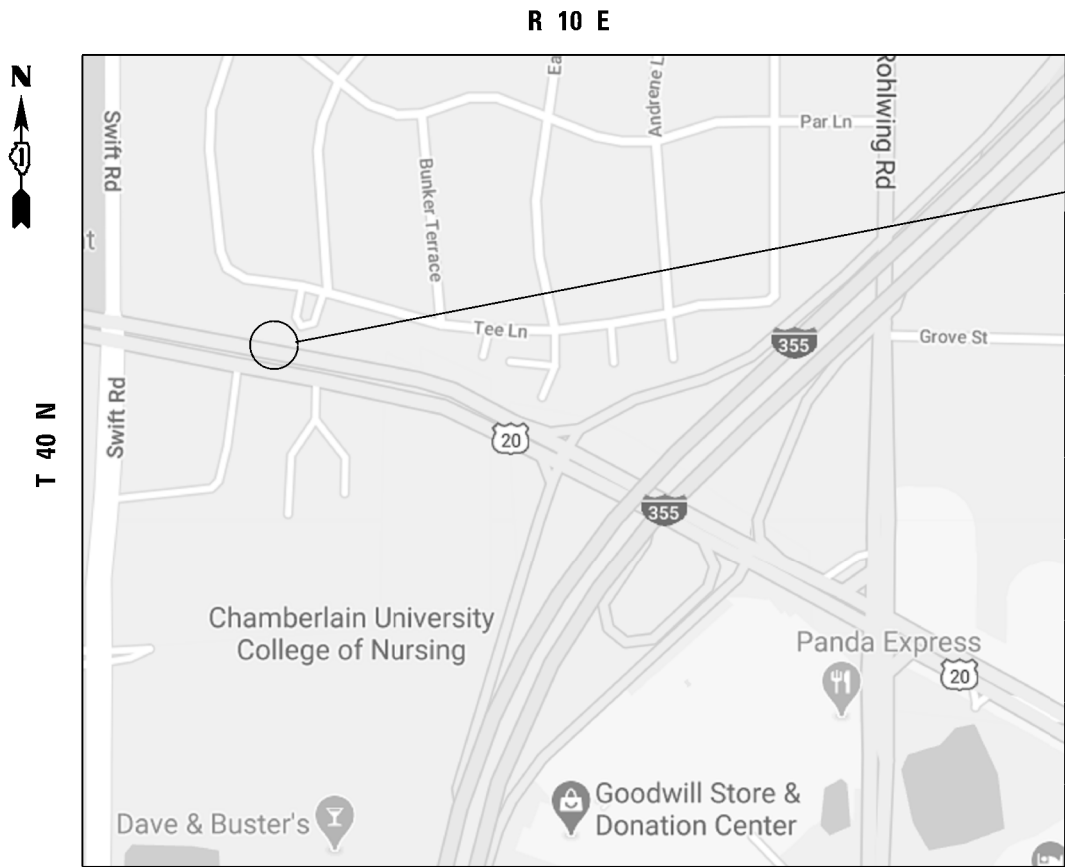
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 20
NOISE WALL DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	44
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				

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



LOCATION 21
US 20 WB
WEST OF I-355

VILLAGE OF ADDISON
BLOOMINGDALE TOWNSHIP, DU PAGE COUNTY



WOODEN NOISE WALL
REPLACE 35 FT X 8 FT (H)
4 WALL PANELS AND 6 POSTS
(EXACT PANEL LOCATION TO BE DETERMINED IN FIELD)

TRAFFIC DATA

US 20
2019 ADT = 37400
SPEED LIMIT = 45 MPH

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
NOISE ABATEMENT WALL REPAIR	L SUM	0.25
TEMPORARY EROSION CONTROL BLANKET	SQ. YDS	62.0
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	10.4
SEEDING CLASS 2A	ACRE	0.013

SEE SHEET # 2 FOR PANEL INFORMATION

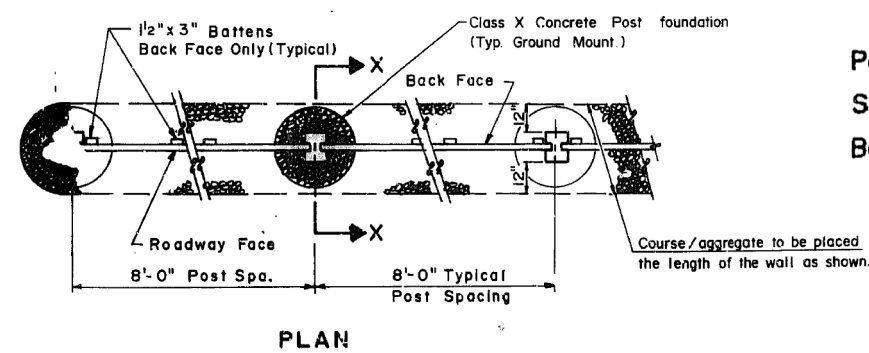
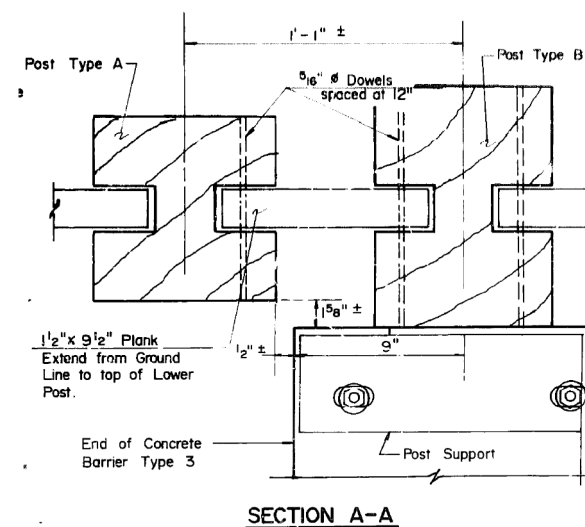
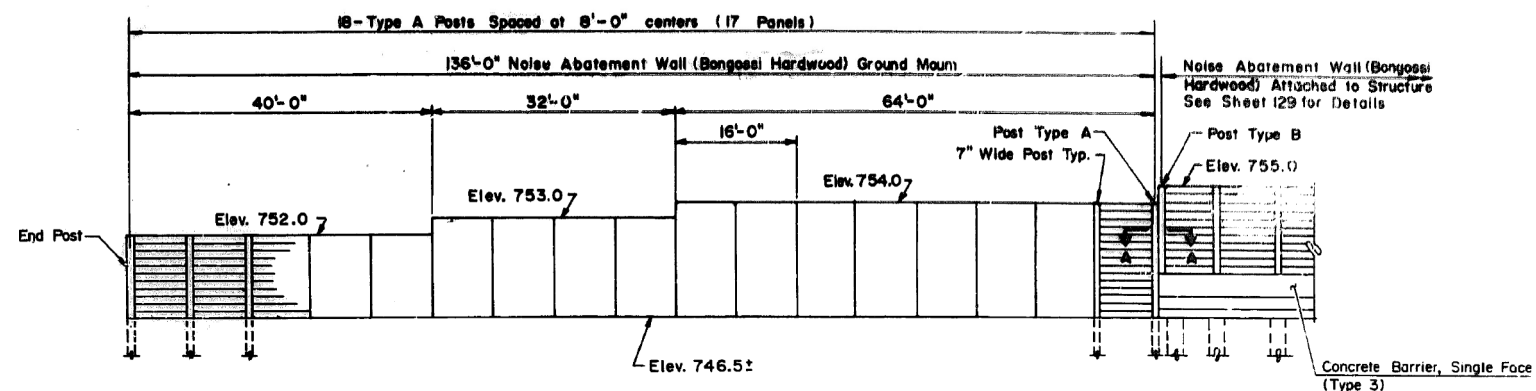
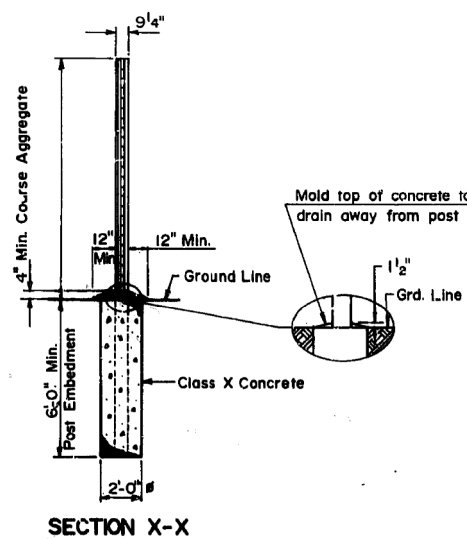
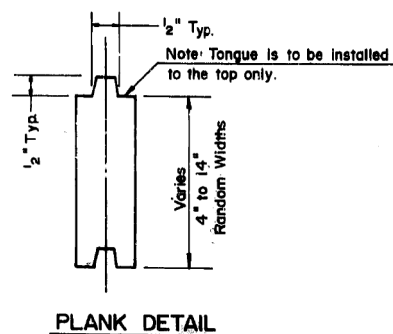
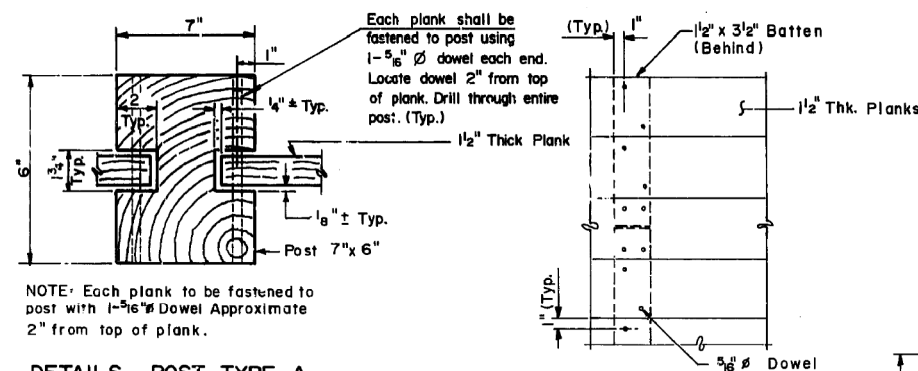
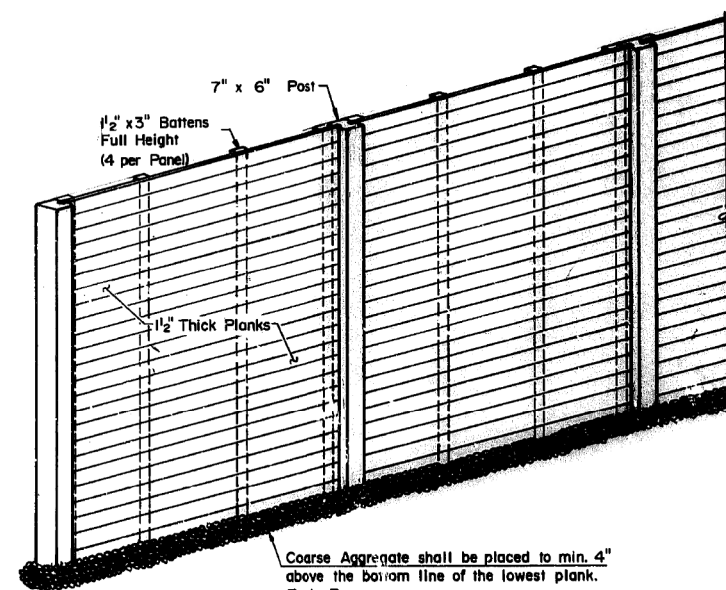
MODEL: Default
FILE: Noise - gregpharman.dwg
PROJECT: D:\40920\CADD\Drawings\Design\40920.dwg
DATE: 3/26/2020

USER NAME = gorenautab	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 21 US 20 NOISE WALL			
SCALE:	SHEET 1 OF 2 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	45
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				



GENERAL NOTES

1. All metal, including dowels, nuts, bolts, washers, plates, and angles shall conform to Section 710 of the Std. Specification and shall be hot dipped galvanized in accordance with ASTM A153.
2. Shop drawings shall be submitted in accordance with Article 105.05 of the Std. Specifications.
3. All wood dimensions are net, not nominal.
4. Standard panel widths shall be 2'-0" Center to Center Posts.
5. Posts shall be field-cut flush with the top of the top plank of the highest adjacent wall.
6. All dowels shall be ASTM A36 steel $\frac{1}{2}$ " ϕ and shall be driven in pilot holes $\frac{1}{16}$ " ϕ .

NOISE ABATEMENT WALL DESIGN CRITERIA

Wind Load 35 psf

Panel Posts Lophira Alata Hardwood
(Bongossi Hardwood)
Fb 3630 psi

Panel Battens & Planks... Dinizia Excelsa Hardwood
(Bonolim Hardwood)

Structural Steel A36

Bolts, Nuts, Washers & Lag Screw... A307

FOR INFORMATION ONLY

USER NAME = gorengautab	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' = 1 in.	CHECKED -	REVISED -
PLOT DATE = 3/26/2020	DATE -	REVISED -

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 21
NOISE WALL DETAILS

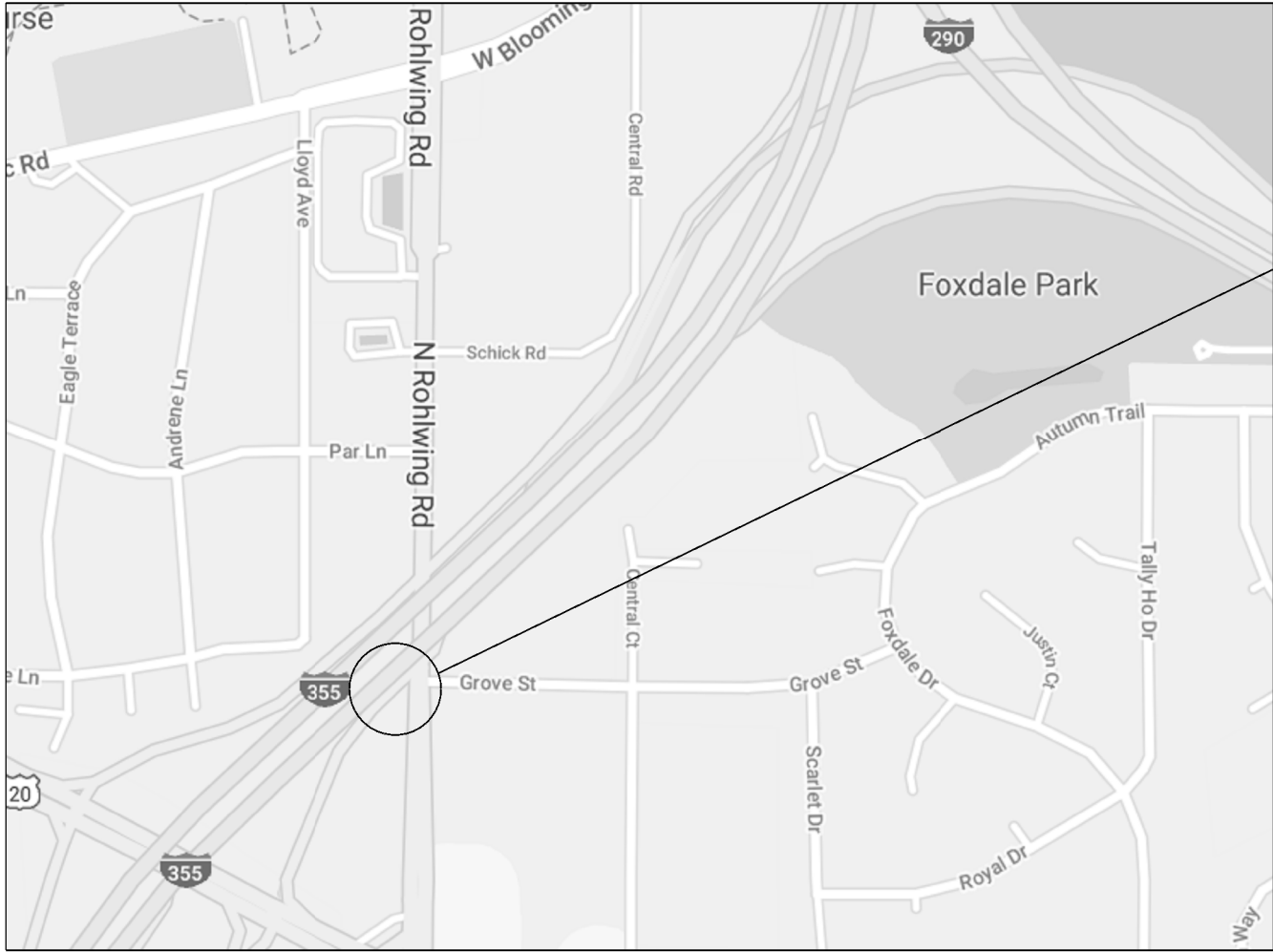
SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	46
		CONTRACT NO. 62K98		
ILLINOIS		FED. AID PROJECT		

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DATE: 3/26/2020

R 10 E

T 40 N



LOCATION 21
I-355 NB
RIGHT SHOULDER
W OF IL-53 TO I-290

VILLAGE OF ADDISON
BLOOMINGDALE-ADDISON TOWNSHIP, DU PAGE COUNTY

TRAFFIC DATA

I-355
2019 ADT = 142300
SPEED LIMIT = 55 MPH

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
NOISE ABATEMENT WALL REPAIR	L SUM	0.25
TEMPORARY EROSION CONTROL BLANKET	SQ. YDS	21.0
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	3.5
SEEDING CLASS 2A	ACRE	0.0045

SEE SHEET 2 THRU 5 FOR PANEL INFORMATION

SECTION #	TYPE OF WALL	HEIGHT X WIDTH
1	WOODEN NOISE WALL	11' X 8'
2	WOODEN NOISE WALL	10' X 7'9"
3	WOODEN NOISE WALL	10' X 7'9"
4	WOODEN NOISE WALL	10' X 7'9"
5	WOODEN NOISE WALL	10' X 7'9"
6	WOODEN NOISE WALL	10' X 7'9"
7	WOODEN NOISE WALL	10' X 7'9"
8	WOODEN NOISE WALL	10' X 7'9"
9	WOODEN NOISE WALL	10' X 7'9"
10	WOODEN NOISE WALL	10' X 7'9"
11	WOODEN NOISE WALL	10' X 7'9"
12	WOODEN NOISE WALL	10' X 7'9"

(EXACT PANEL LOCATION TO BE DETERMINED IN FIELD)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 22
I-355 NB NOISE WALL

SCALE: SHEET 1 OF 5 SHEETS TO STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	47
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				



WOODEN NOISE WALL ON TOP OF CONCRETE BARRIER
SEE LOCATION 21 SHEET 2 OF 2 FOR INFORMATION.

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	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 22 I-355 NB EXISTING NOISE WALL			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					VAR	2020-027-BR&I	VARIOUS	59	48
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	PLOT DATE = 3/26/2020	DATE -	REVISED -		SCALE:	SHEET 1	OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



EXISTING WOODEN PANELS ON TOP OF CONCRETE BARRIER TO BE REPLACED.

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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/26/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 22 EXISTING WOODEN PANELS			
SCALE:	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	49
				CONTRACT NO. 62K98
		ILLINOIS	FED. AID PROJECT	



EXISTING WOODEN PANELS ON TOP OF CONCRETE BARRIER TO BE REPLACED.

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PROJECT: 140920-CADDATA\Design\140920-dht-plan.dgn

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		DRAWN -	REVISED -					VAR	2020-027-BR&I	VARIOUS	59	50
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	PLOT DATE = 3/26/2020	DATE -	REVISED -		SCALE:	SHEET 1	OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



EXISTING WOODEN PANELS ON TOP OF CONCRETE BARRIER TO BE REPLACED.

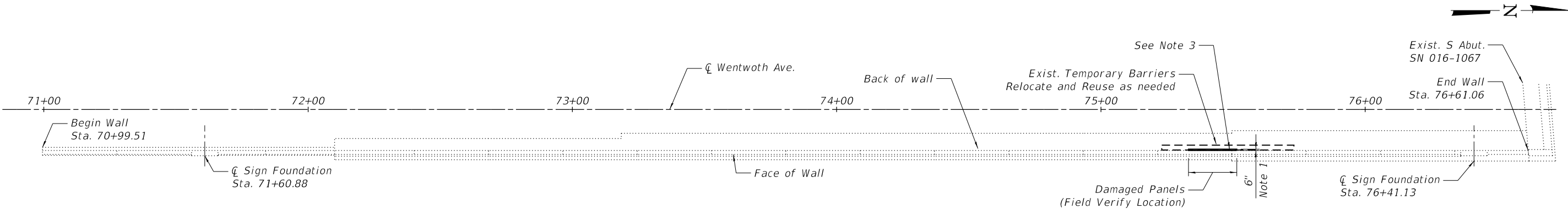
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DRAWN	-	REVISED	-
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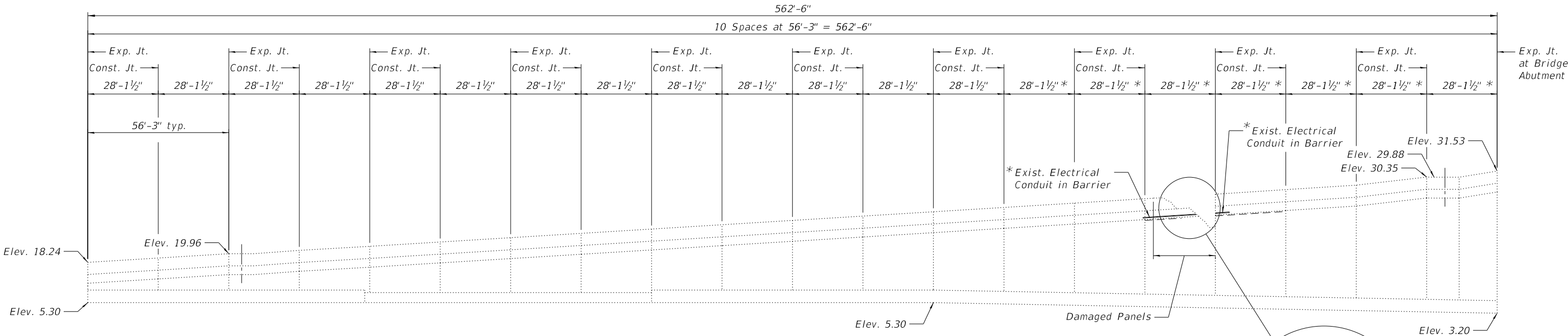
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 22 EXISTING WOODEN PANELS			
SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	51
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				



PLAN



ELEVATION

DESIGN STRESSES
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

GENERAL NOTES

- Reinforcement bars designated (E) shall be epoxy coated.
- 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 at the unit price bid for the work.
- Contractor shall Design and Install Temporary Soil Retention System for portion of wall demo that extends below existing concrete roadway slab. Estimated area of Temporary Earth Retention = 54 Sq. Ft. At Contractors option, a portion of existing concrete roadway slab may be removed to assist installation of shoring, but shall be limited to 6" from roadside face of wall/barrier and no longer than 16 feet.

LEGEND:

* = Field Verify all dimensions and location of electrical conduits in barrier.
Note, Contractor to verify if additional buried electrical present within or behind exist. retaining wall or within/below roadway. (See Electrical Plans)

TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
Protective Coat	Sq.Yd.	10.6
Concrete Removal	Cu.Yd.	3.5
Concrete Structures	Cu.Yd.	6.5
Reinforcement Bars	Pound	1020
Temporary Soil Retention System	Sq.Ft.	54
Controlled Low-Strength Material	Cu.Yd.	1

TEMPORARY SOIL RETENTION SYSTEM



GENERAL PLAN
FAI 90/94
(DAN RYAN EXPRESSWAY)
COOK COUNTY
STA. 70+99.51 TO 76+61.06
RETAINING WALL "H"

HRG PROJECT NO.: 8650046.28
HRG PROJ. CONTACT:
FILE NAME: 8650046.28_S1r_Plan.dgn
PLOT DRIVER: IL_Plot_Drv.plt
PEN TABLE: plotabel.tbl



USER NAME =	DESIGNED - AEU	REVISED -
	DRAWN - WJH	REVISED -
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PLOT DATE = 3/27/2020	DATE - 3/17/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

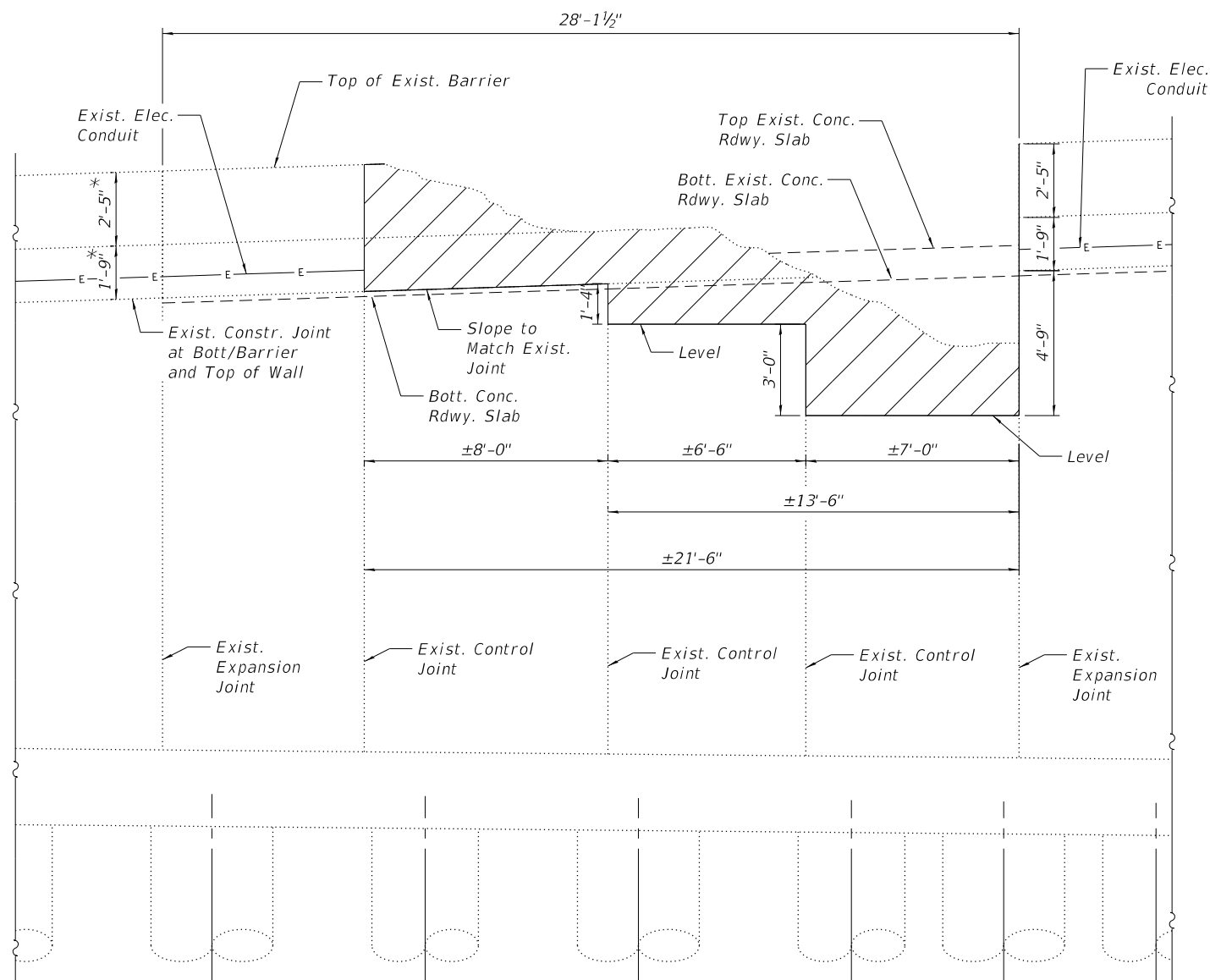
RETAINING WALL H
GENERAL PLAN AND ELEVATION

SHEET NO. S-1 OF S-3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-027-BR&I	VARIOUS	59	52
CONTRACT NO. 62K98				ILLINOIS FED. AID PROJECT

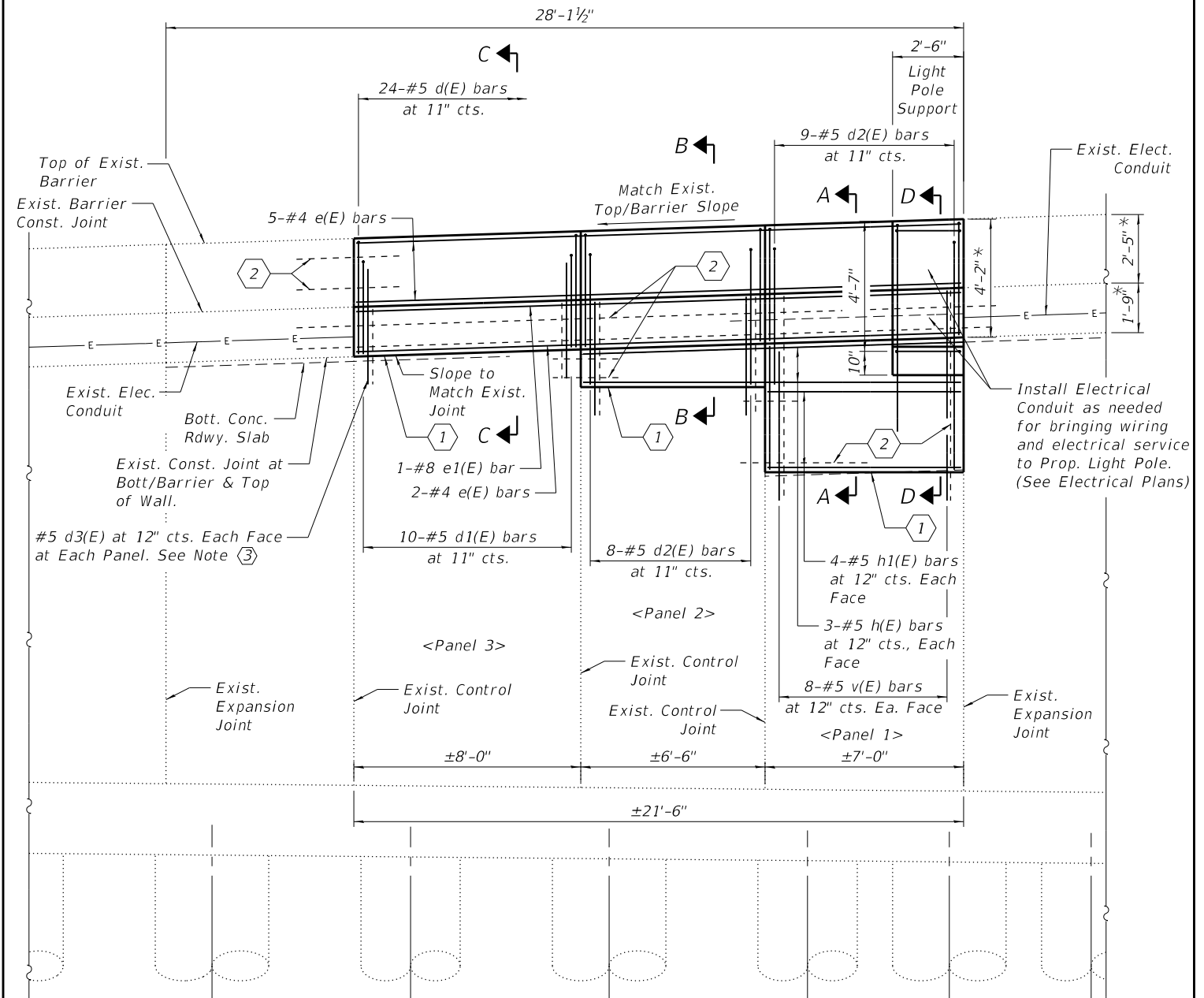
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FILE NAME: 8650046.28 Str. Elevation.dgn
PLOT DRIVER: L:\pdf\dwg\p1c1fg
PEN TABLE: plotabel.tbl

LEGEND
Concrete Removal



PARTIAL ELEVATION
(Showing Existing Construction)

Field verify spacing of Exist.
Joints and match locations in
New Barrier and Wall construction.



PARTIAL ELEVATION
(Showing Proposed Construction)

Field verify spacing of Exist.
Joints and match locations in
New Barrier and Wall construction.

- ① = Roughen exist. concrete surface to 1/4" Amplitude prior to installing new concrete.
- ② = Protect, Clean and incorporate exist. reinforcement into new construction where feasible.
- ③ = Drill, Set and Grout new bars into existing concrete. Cost included in Concrete Structures. Minimum 5" embedment required into existing concrete. d3(E) bars can be set without embedment where exist. vert. reinforcement provides min. 2'-0" lap.



HRGreen.com
Professional Design Firm
#184-001322

USER NAME =	DESIGNED - AEU	REVISED -
	DRAWN - WJH	REVISED -
PLOT SCALE =	CHECKED - AEU	REVISED -
PLOT DATE = 3/27/2020	DATE - 3/17/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL H
REMOVAL AND REPAIR PLAN

SHEET NO. S-2 OF S-3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-027-BR&I	VARIOUS	59	53
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				

HRG PROJECT NO.: 8650046.28
HRG PROJ. CONTACT:
FILE NAME: 8650046.28_S1r_WallDetails.dgn
PLOT DRIVER: L:\pdf\dwg\p1c1g
PEN TABLE: plotabel.tbl



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Professional Design Firm
#184-001322

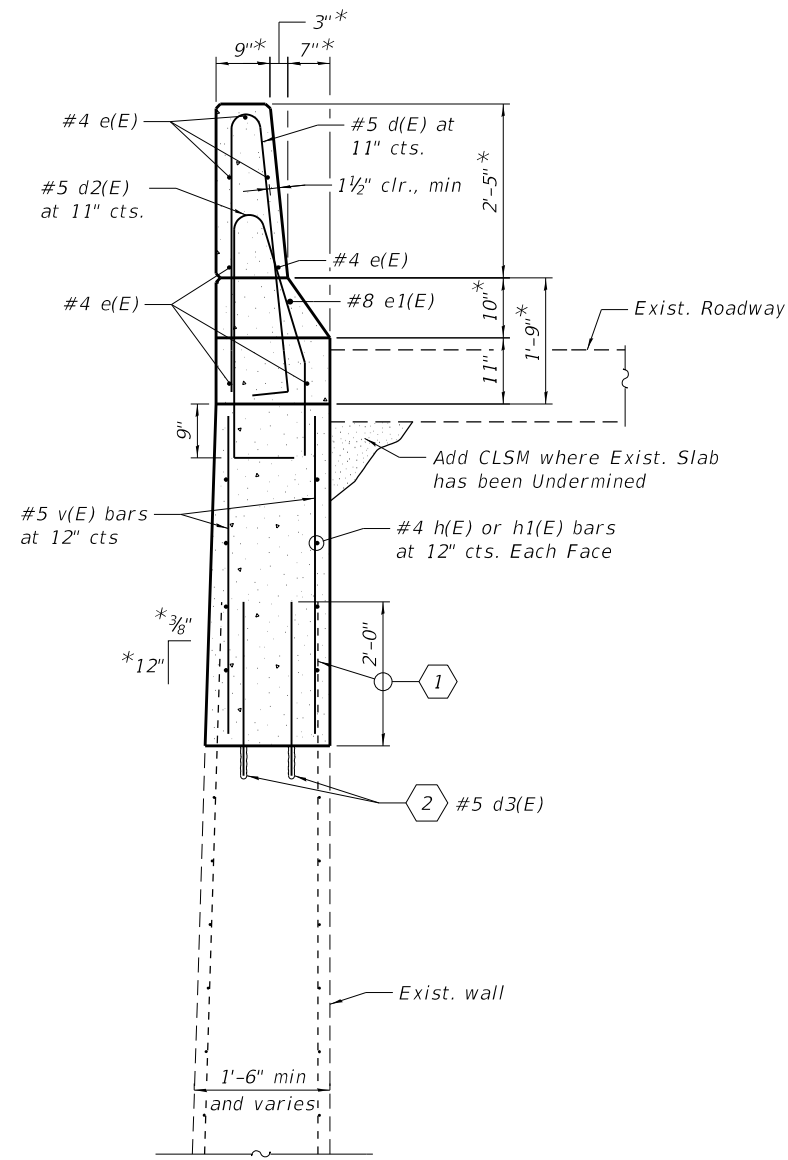
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	DRAWN - WJH	REVISED -
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PLOT DATE = 3/27/2020	DATE - 3/17/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

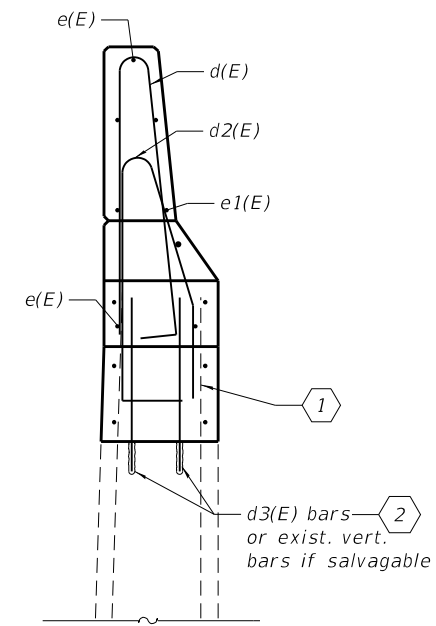
RETAINING WALL H
CONSTRUCTION DETAILS

SHEET NO. S-3 OF S-3 SHEETS

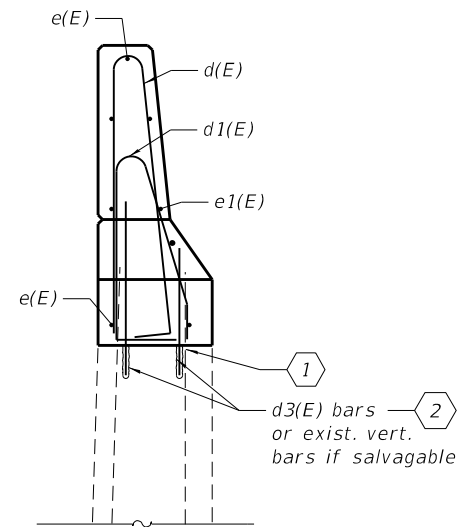
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-027-BR&I	VARIOUS	59	54
CONTRACT NO. 62K98				
ILLINOIS FED. AID PROJECT				



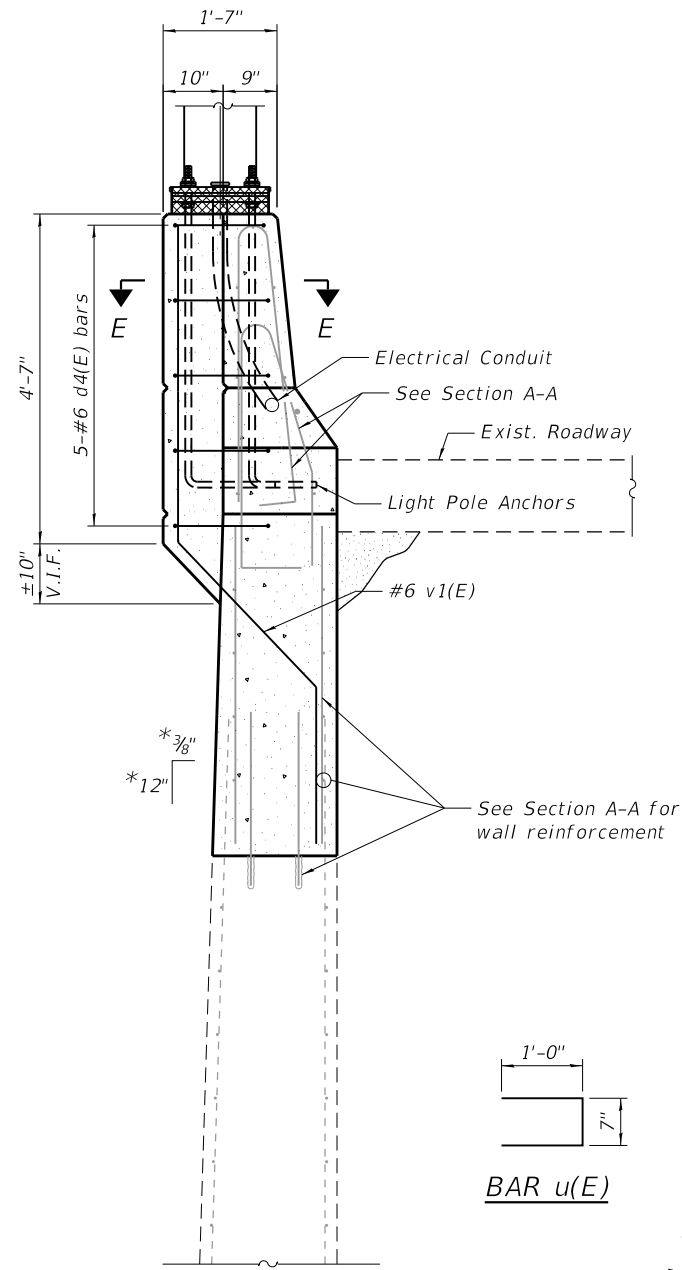
- * = Field Verify dimensions to match exist. barrier and wall dimensions.
- ① = Where possible, Protect, Clean and incorporate exist. reinforcement into Wall and Barrier Repairs.
- ② = Where exist. vert. reinforcement bars are cut/removed at Prop. Joint Line, drill, set and grout #5 d3(E) bars with Min. Embedment = 5".



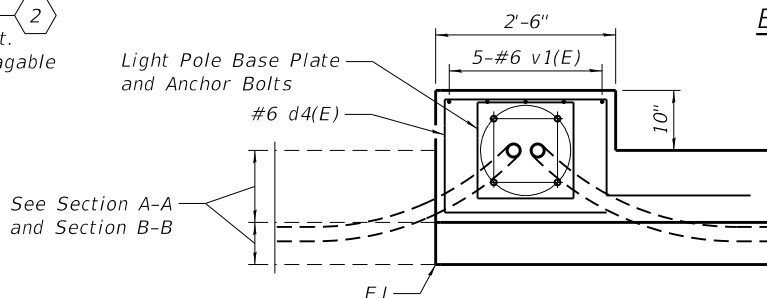
SECTION B-B
See Section A-A for additional information



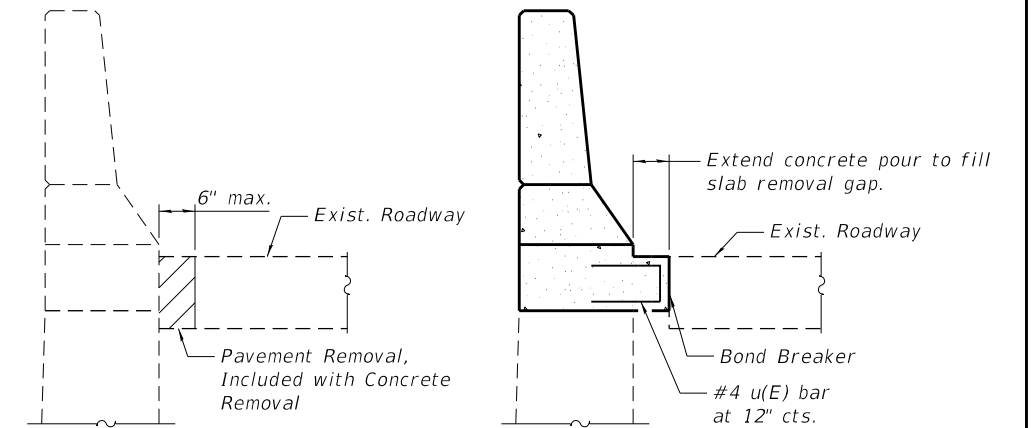
SECTION C-C
See Section A-A for additional information



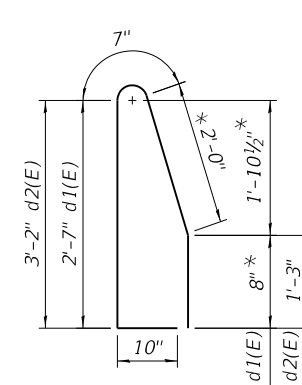
SECTION D-D



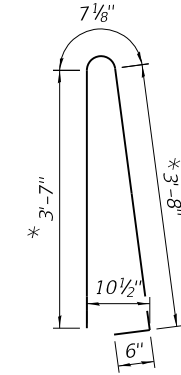
SECTION E-E



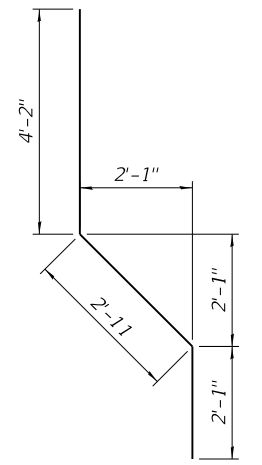
OPTIONAL ROADWAY SLAB REMOVAL
If Necessary to Aid Installation of Temporary Soil Retention System, But Contractor Shall Minimize Disturbance of Roadway Surface & Potential Traffic Disturbances.



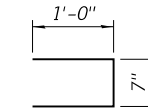
BAR d1(E), d2(E)



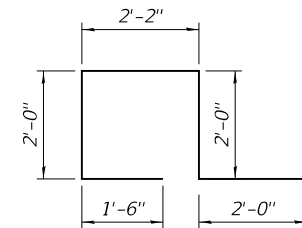
BAR d(E)



BAR v1(E)



BAR u(E)



BAR d4(E)

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE
d(E)	24	#5	8'- 4"	⏏
d1(E)	10	#5	6'- 8"	⏏
d2(E)	17	#5	7'- 10"	⏏
d3(E)	44	#5	2'- 5"	—
d4(E)	5	#6	9'- 8"	⏏
e(E)	7	#4	21'- 3"	—
e1(E)	1	#8	21'- 3"	—
h(E)	6	#4	13'- 3"	—
h1(E)	8	#4	6'- 9"	—
v(E)	16	#5	4'- 6"	—
v1(E)	5	#6	9'- 2"	⏏
u(E)	17	#4	2'- 7"	⏏
Concrete Structures			Cu. Yd.	6.5
Reinforcement Bars, Epoxy Coated			Pounds	1020
Protective Coat			Sq. Yd.	11

For Bars d(E) thru d4(E), bend and/or trim to fit in the field to account for verified in field dimensions.



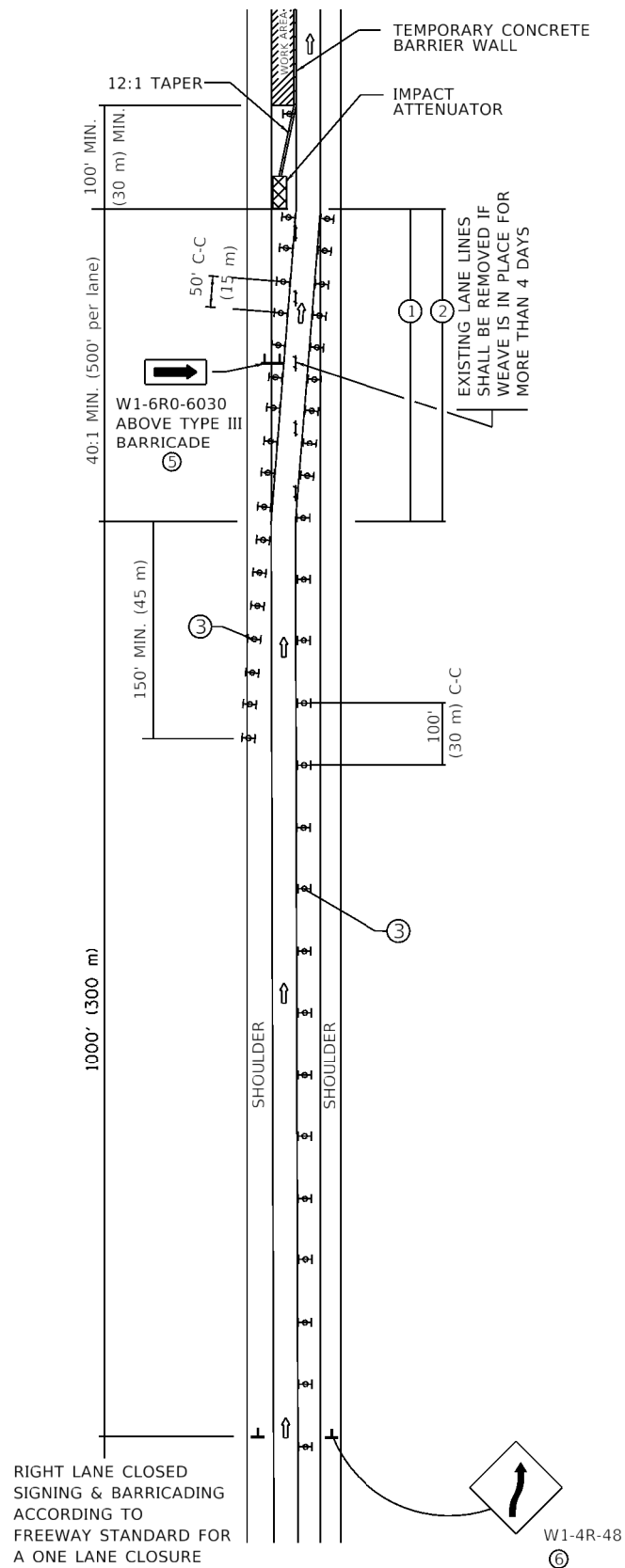
SPEED LIMIT = 55 MPH

Technical drawing of a retaining wall cross-section. The wall is shown in profile, with a sloped face on the left and a vertical back on the right. The top of the wall is a horizontal line. The base of the wall is a horizontal line. The wall is divided into two main sections by a vertical line. The left section is hatched with diagonal lines. The right section is solid. Dimensions are indicated with arrows and text. The top width is $\pm 2'-0''$ and $6''$. The height is $3'-0\frac{1}{2}''$ and $2'-8''$. The base width is $1'-6\frac{1}{2}''$. The wall is labeled "VARIES" and "EARTH EXCAVATION". The hatched section is labeled "2'' CL (TYP)". The right section is labeled "1'-6''", "11''", and "3''". The bottom right corner is labeled "PROP. TIE BARS, 1'' STAGGERED, 30'' SPACING".

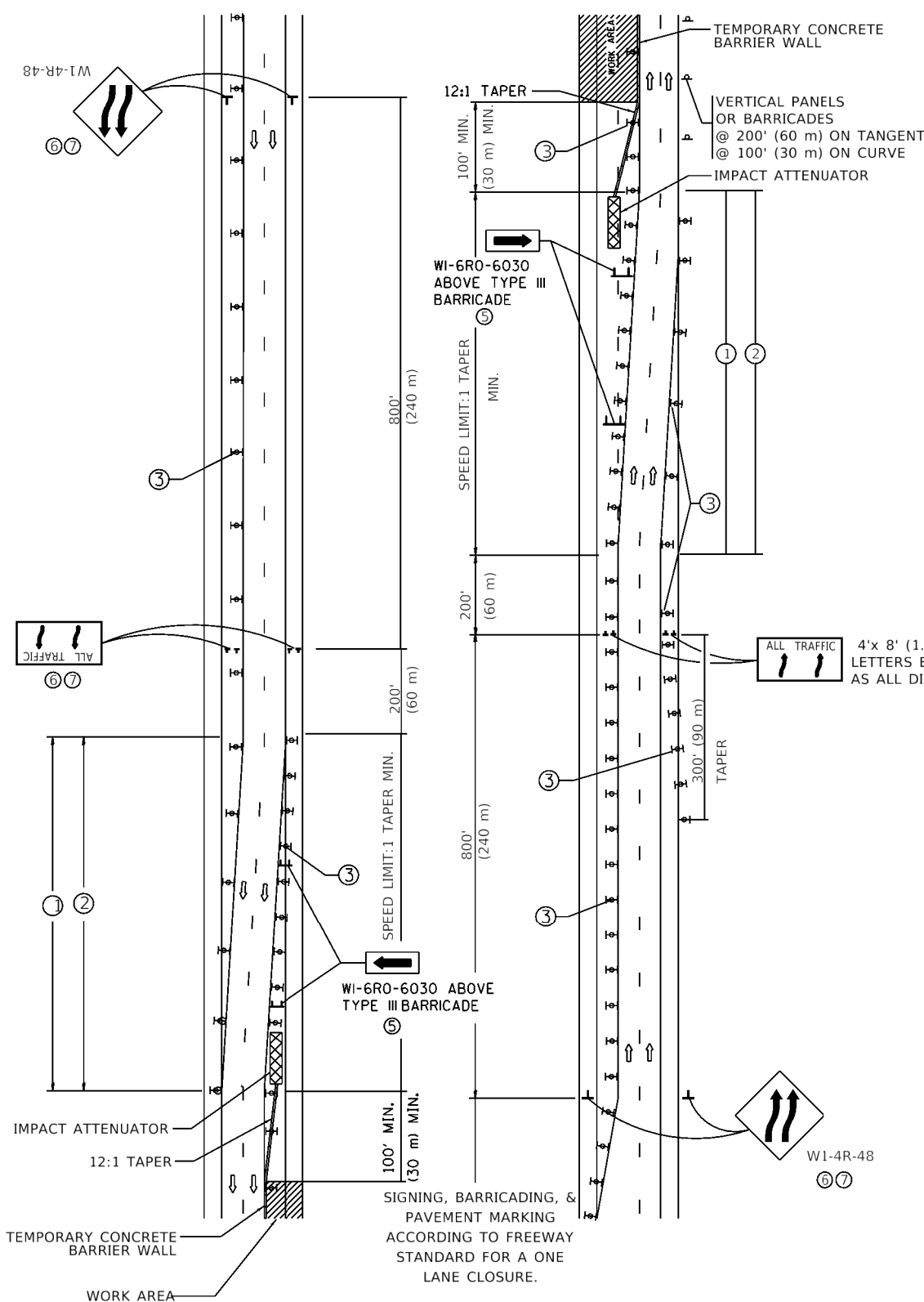
Technical drawing of a bridge deck cross-section. The drawing shows a central section labeled "CONCRETE STRUCTURES" with a width of "30'-0" LOC. B". This central section is flanked by two side sections, each with a width of "110'-0" LOC. A". The total width of the deck is indicated as "2'-8" on the right side. The drawing includes "SAW CUT" lines on the top and bottom edges. "PROPOSED TIE BARS 1" are shown as horizontal lines connecting the concrete structures. "PROPOSED TIE BARS 1" are also shown as vertical lines connecting the concrete structures. The drawing is a technical cross-section of a bridge deck, showing the internal structure and proposed modifications.

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU. YDS	13.0
CONCRETE STRUCTURES	CU. YDS	13.0
TIE BARS	EACH	68
SAW CUT	FOOT	12
PROTECTIVE COAT	SQ. YDS	51
REMOVE TEMPORARY CONCRETE BARRIER, STATE OWNED	FOOT	147.5
REMOVE TEMPORARY IMPACT ATTENUATORS STATE OWNED	EACH	1
EARTH EXCAVATION	CU. YDS	15.5
TEMPORARY EROSION CONTROL BLANKET	SQ. YDS	31
TOPSOIL EXCAVATION AND PLACEMENT	CU. YDS	10
SEEDING CLASS 2A	ACRE	0.006

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.

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
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

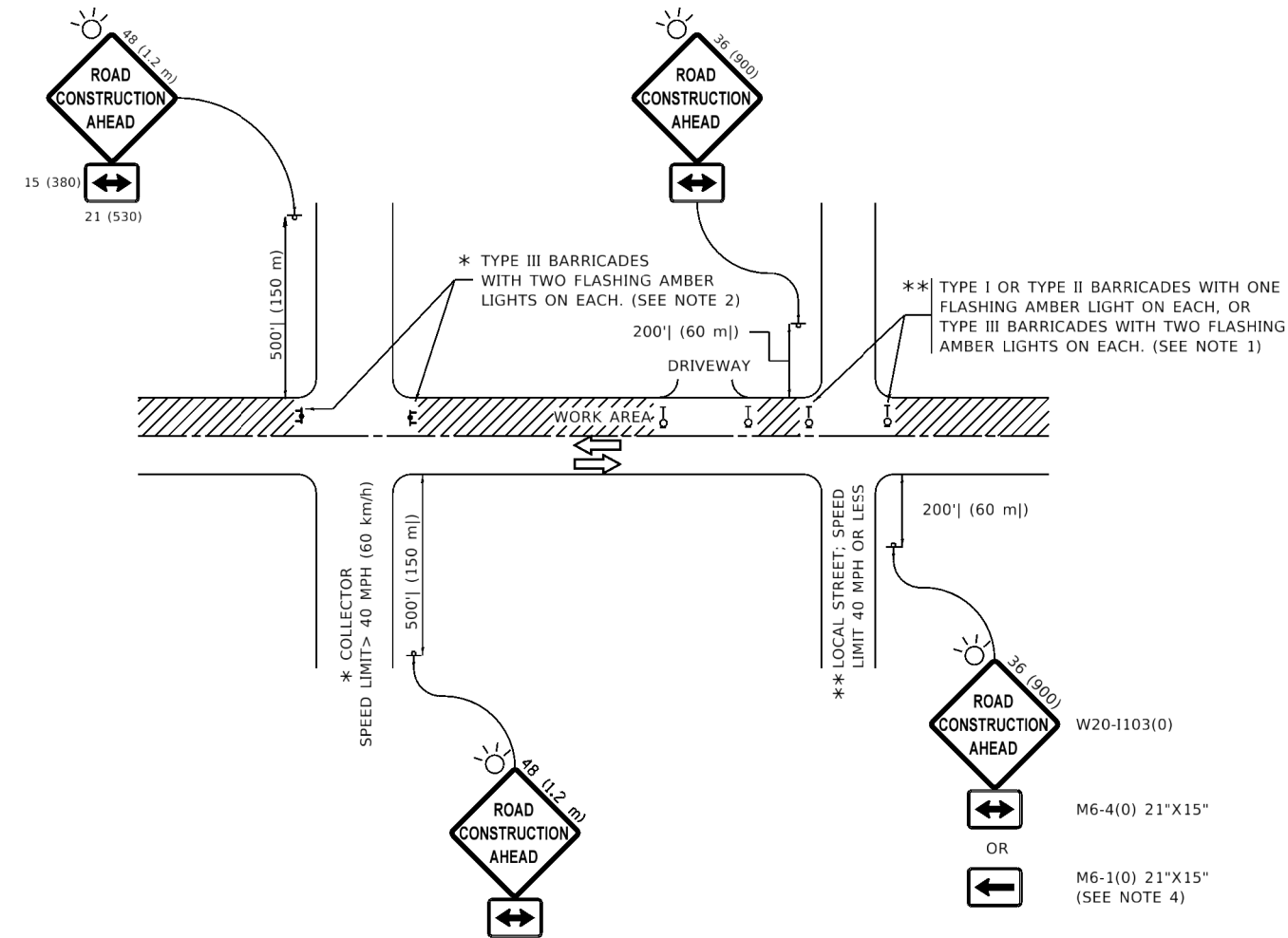
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR
FREEWAY SINGLE & MULTI-LANE WEAVE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	56
TC-09		CONTRACT NO. 62K98		
		ILLINOIS	FED. AID PROJECT	

MODEL - Default
FILE NAME - g:\pub\harcen\dot.illinois.gov-PWD\DOT-Document\UDOT - Office\District 1\Project\0140920\CADD\Data\Design\DisStd.dgn



NOTES:

- 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:
 - 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.
 - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - 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.
- 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.
- 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).
- 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 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.

	USER NAME = gorengautab	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - T. RAMMACHER 01-06-00			VAR	2020-027-BR&I	VARIOUS	59	57
	PLOT SCALE = 100.0000 " / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13			TC-10		CONTRACT NO. 62K98		
	PLOT DATE = 3/26/2020	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16			ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START
OF LANE CLOSURE TAPER

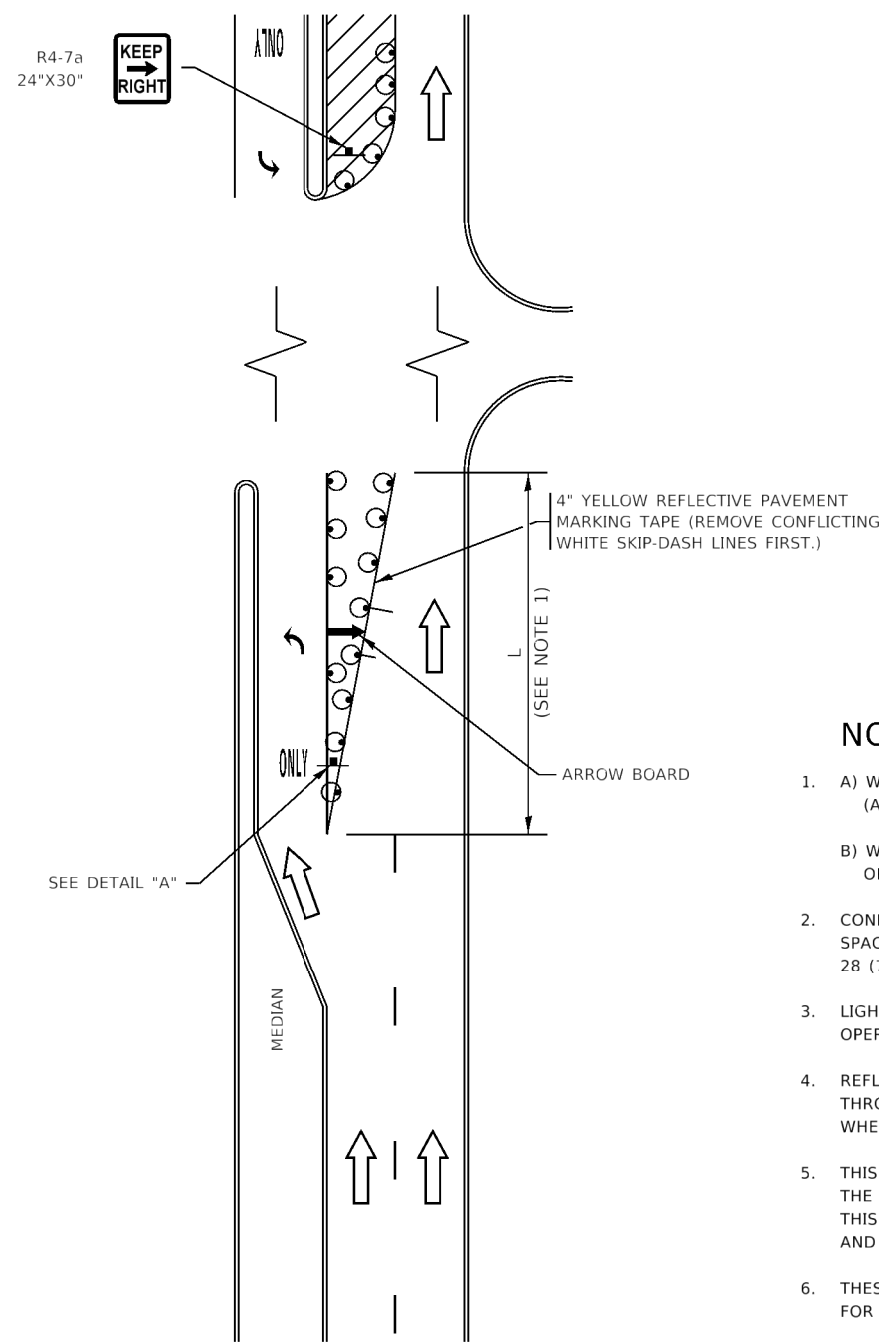
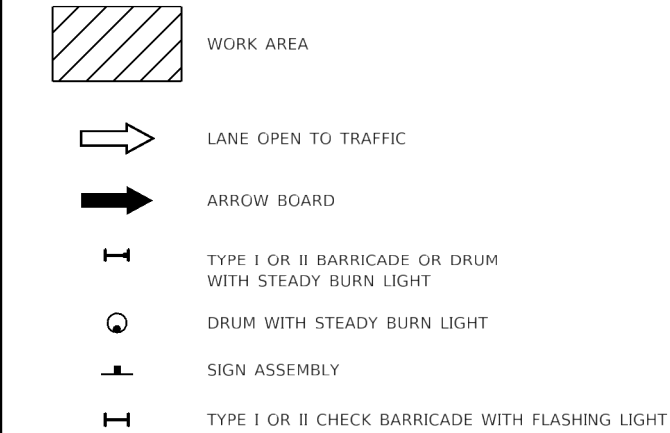


FIGURE 1

LEGEND



NOTES:

- 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.
- 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.
- LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 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.
- 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.
- THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
- 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.

TURN BAY ENTRANCE
WITHIN A LANE CLOSURE

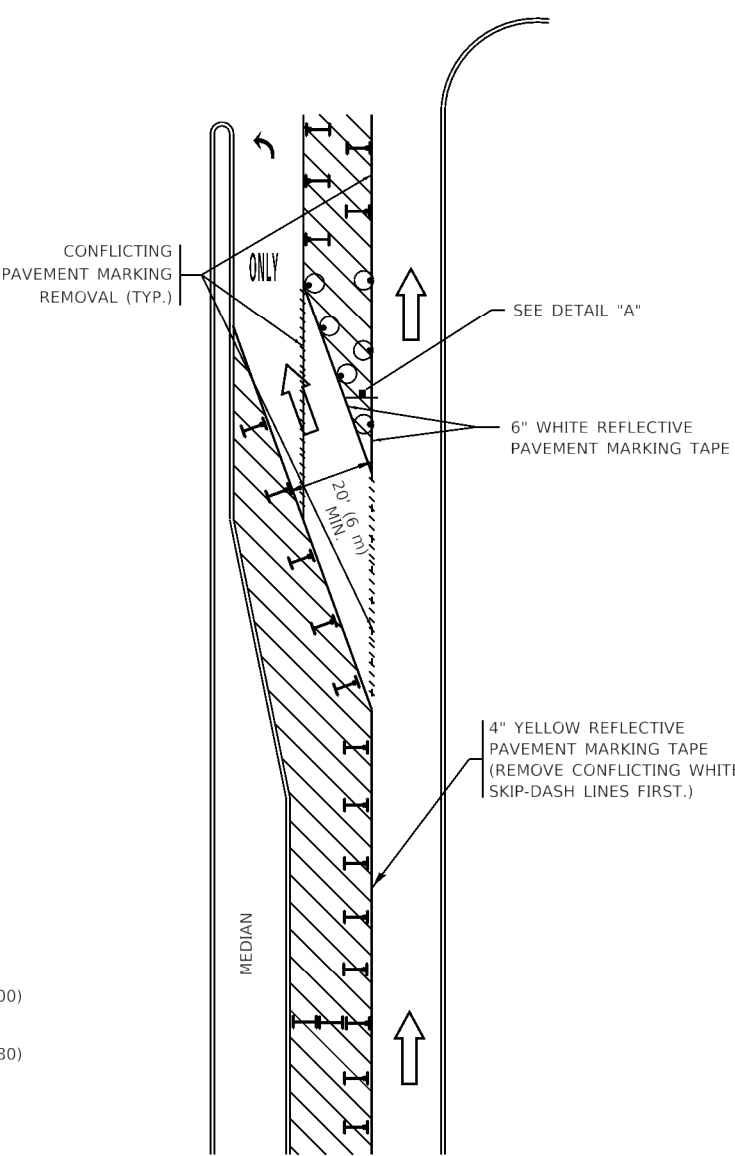
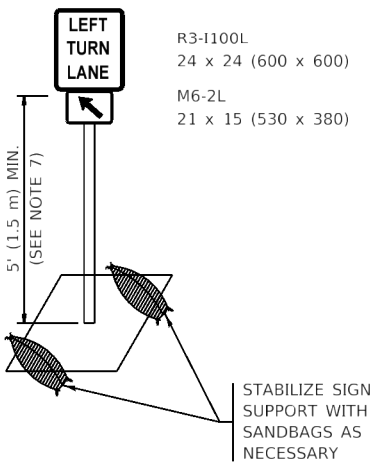


FIGURE 2



DETAIL A

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

USER NAME	= goregautab
DESIGNED	- T. RAMMACHER 09-08-94
DRAWN	- A. HOUSEH 11-07-95
PLOT SCALE	= 100.0000" / in.
CHECKED	- A. HOUSEH 10-12-96
DATE	- T. RAMMACHER 01-06-00

REVISED	- R. BORO 09-14-09
REVISED	- A. SCHUETZE 07-01-13
REVISED	- A. SCHUETZE 09-15-16
REVISED	-

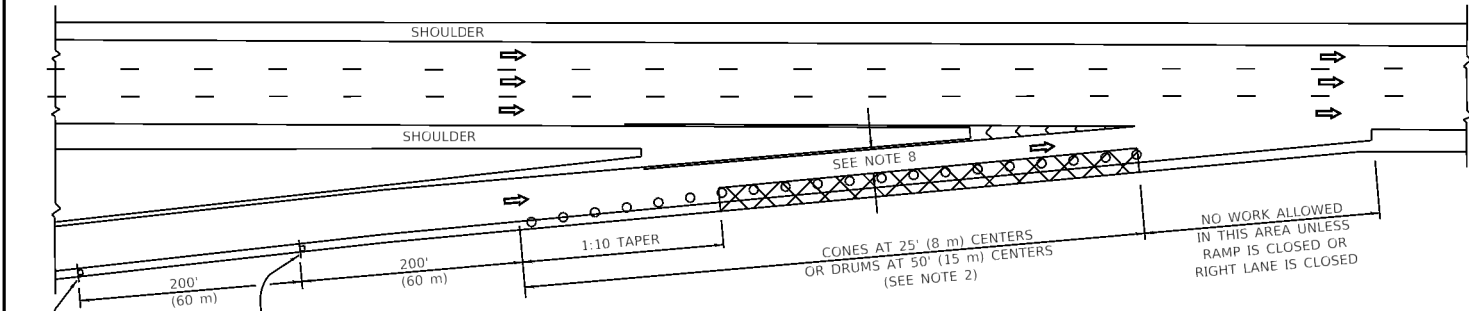
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

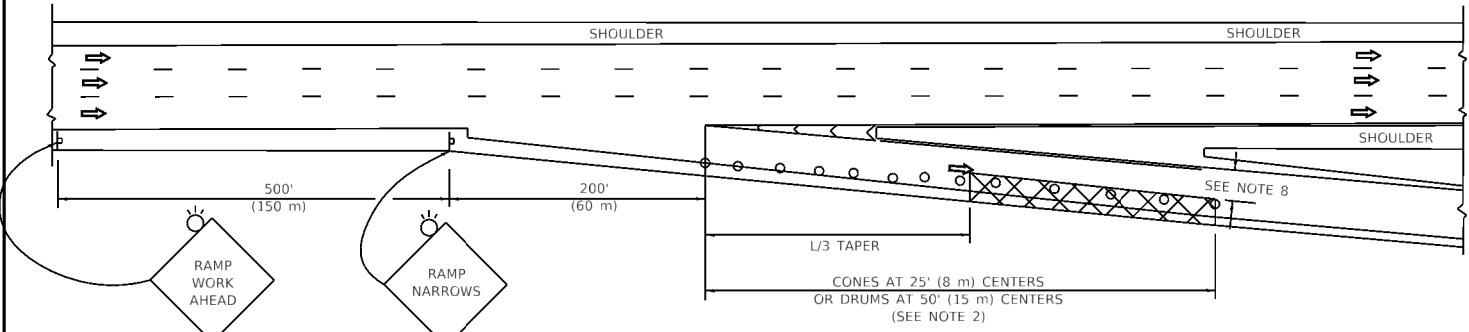
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	57A
TC-14		CONTRACT NO. 62K98		
ILLINOIS		FED. AID PROJECT		

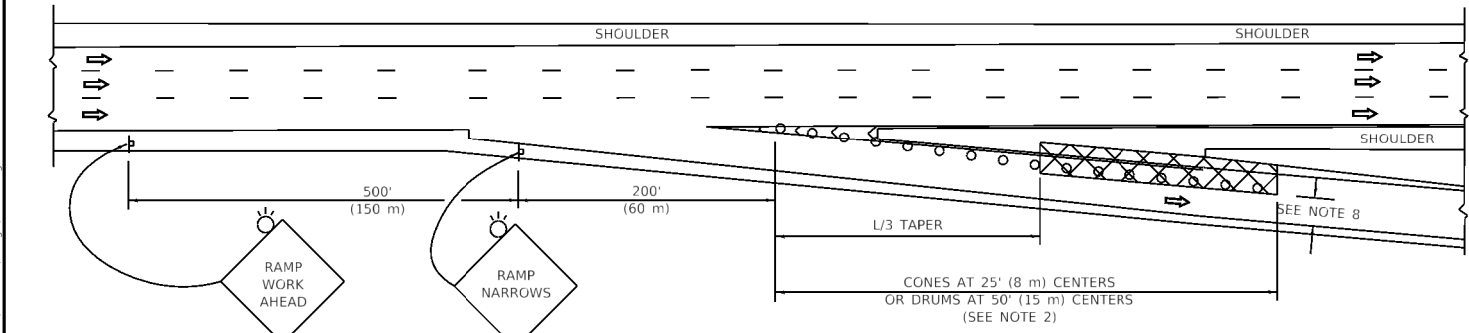
PARTIAL RAMP CLOSURE DETAILS



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
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

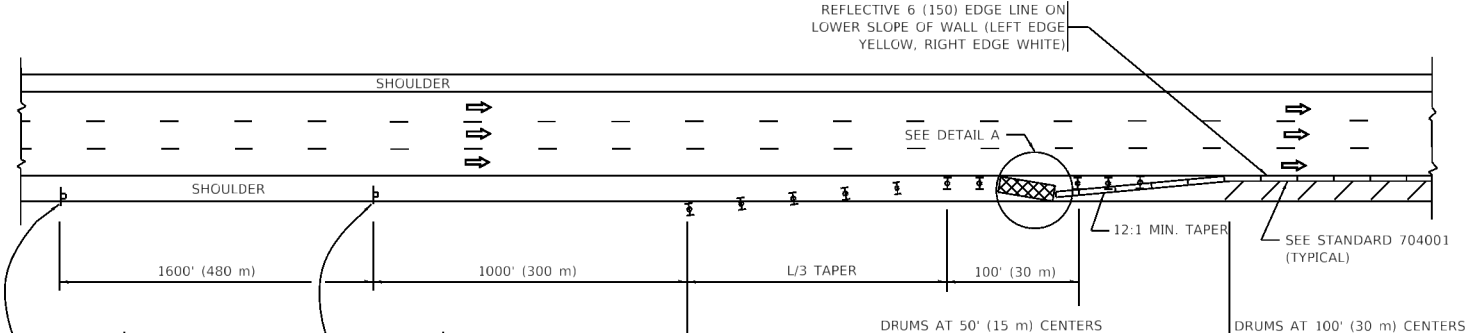
GENERAL NOTES:

- THE "L" DISTANCE EQUALS:

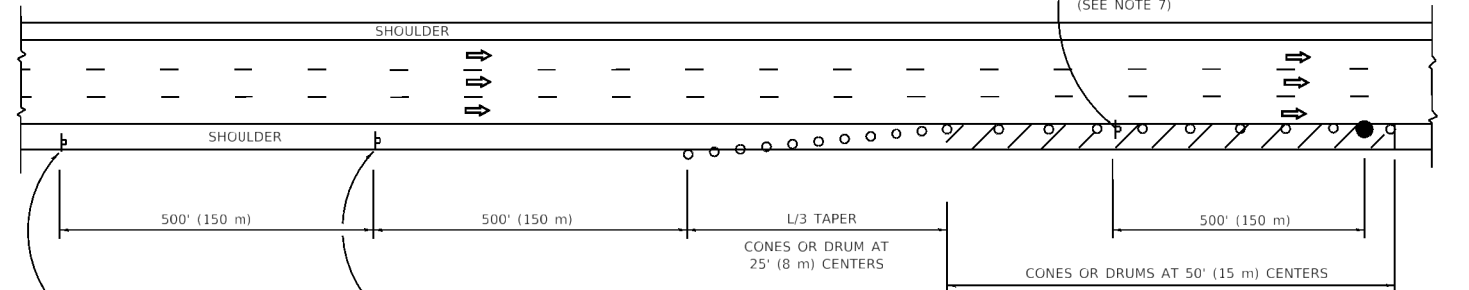
SPEED LIMIT	METRIC	ENGLISH
45 mph (80 km/h) OR GREATER:	$L = 0.65(WXS)$	$L = (WXS)$

W = WIDTH OF OFFSET (IN FEET (METERS))
S = NORMAL POSTED SPEED MPH (KM/H)
- TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- 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

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

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

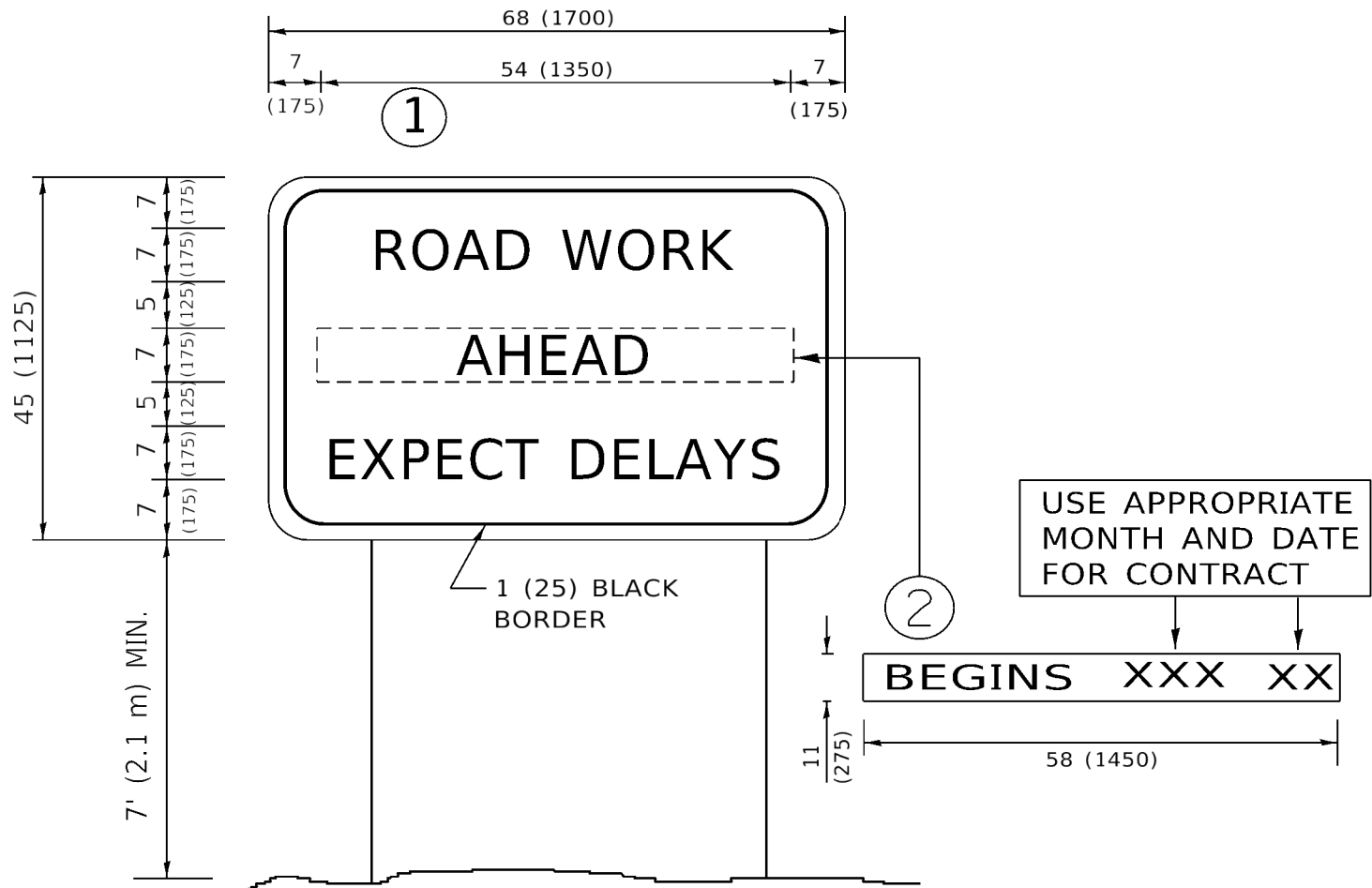
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-027-BR&I	VARIOUS	59	58
TC-17		CONTRACT NO. 62K98		
ILLINOIS		FED. AID PROJECT		

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

MODEL: Default
FILE NAME: g:\p1\hennepin.dot.ilinois.gov\PWD\DOT\Documents\DOT_Offices\District 1\Projects\0140920\CADD\Data\Design\DisStd.dgn



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 SIGN①WITH INSTALLED PANEL②ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL②SOON 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.

	USER NAME = gorengautab	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. MIRS 12-11-97						VAR	2020-027-BR&I	VARIOUS	59	59
	PLOT SCALE = 100.0000 " / in.	CHECKED -	REVISED -T. RAMMACHER 02-02-99						TC-22		CONTRACT NO. 62K98		
	PLOT DATE = 3/26/2020	DATE -	REVISED - C. JUCIUS 01-31-07		ILLINOIS FED. AID PROJECT								
					SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.			