wangeng@wangeng.com 1145 North Main Street Lombard, IL 60148 Telephone: 630-953-9928 Fax: 630-953-9938

BORING LOG LTB-08

WEI Job No.: 1100-04-01

Client AECOM

Project Jane Byrne Interchange

Location Section 16, T39N, R14E of 3rd PM

Datum: NAVD 88 Elevation: 586.97 ft wangeng@wangeng.com

North: 1897093.86 ft

East: 1171652.78 ft

Station: 6217+75.04

Offset: 122.29 LT

wangeng@wangeng.com 1145 North Main Street Lombard, IL 60148 Telephone: 630-953-9928 Fax: 630-953-9938

BORING LOG VST-01

WEI Job No.: 1100-04-01

Client AECOM

Project Jane Byrne Interchange

Location Section 16, T39N, R14E of 3rd PM

Datum: NAVD 88 Elevation: 593.55 ft North: 1897108.36 ft East: 1171435.63 ft Station: 7313+90.47 Offset: 2.00 LT

SOIL AND ROCK SOIL AND ROCK DESCRIPTION DESCRIPTION 8-inch, CONCRETE --PAVEMENT--6-inch, gray CRUSHED STONE 0 0 2 NP 17 0.16 25 --FILL--В Very stiff, gray SILTY CLAY LOAM, trace gravel; damp --RDR 1----FILL--2 3 5 0 0 2 25 2.87 19 0.41 В Soft, gray CLAY to SILTY CLAY, trace gravel; damp to moist --RDR 2--0.57 24 В 0.66 25 25 0.41 2 2 В В 35 0.33 25 В Medium stiff, gray SILTY CLAY LOAM, trace gravel; damp --RDR 1--3 3 3 0.33 26 0.82 15 В В 0.25 26 Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; damp В 0 6 17 20 27 5.40 14 0.16 В 0 Hard, gray SILTY CLAY to SILTY 0.16 26 0 CLAY LOAM, trace gravel; damp В --RDR 2--11 30 44 0.25 26 5.99 В Boring terminated at 50.00 ft **GENERAL NOTES** WATER LEVEL DATA 07-05-2019 07-05-2019 Begin Drilling Complete Drilling While Drilling ▼ mud in the borehole **Drilling Contractor** Wang Testing Services Drill Rig At Completion of Drilling NA R&J F. Bozga Checked by C. Marin Time After Drilling Δ NA 2.25" IDA HSA, boring backfilled upon completion **Drilling Method** Depth to Water The stratification lines represent the approximate boundary between soil types: the actual transition may be gradual.

Profile	SOIL AND ROCK DESCRIPTION	Depth (ft) Sample Type	sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK Sample Type (ft) (ft) (ft) (some frozent frozent (some frozent
	Very stiff, brown SILTY CLAY LOAM, trace gravel FILL		1	3 5 7	2.75 P	14			S _{u undis} = 578.8 psf S _{u remold} = 382.2 psf Sensitivity = 1.5 -In-Situ Vane Shear, 27.0 feet- S _{u undis} = 742.6 psf
	Medium dense, fine SAND	5	2	5 5 6	NP	7			S _{u remold} = 415.0 psf Sensitivity = 1.8 -In-Situ Vane Shear, 29.5 feet-30 5 S _{u undis} = 589.7 psf S _{u remold} = 283.9 psf Sensitivity = 2.1
	586.8 Medium stiff to stiff, gray SILTY CLAY	-	3	2 2 3	1.31	26			-In-Situ Vane Shear, 32.0 feet- S _{u undis} = 1026.6 psf S _{u remold} = 447.8 psf Sensitivity = 2.3
		10 /		3	В				-In-Situ Vane Shear, 34.5 feet—35S _{u undis} = 764.5 psfS _{u remold} = 480.5 psfSensitivity = 1.6In-Situ Vane Shear, 37.0 feet—S _{u undis} = 1026.6 psf
	^{578.0} Soft, gray SILTY CLAY	15	4	2 2 3	0.98 B	28			S _{u undis} = 1020.0 psi S _{u remold} = 589.7 psf Sensitivity = 1.7
	575.3		5	1 2 2	0.25 P	29			
	In-Situ Vane Shear, 19.5 feet S _{u undis} = 786.3 psf S _{u remold} = 371.3 psf Sensitivity = 2.1	:]	1	VS-					Equipment Slipped45
	In-Situ Vane Shear, 22.0 feet S _{u undis} = 742.6 psf S _{u remold} = 305.8 psf Sensitivity = 2.4		2	VS-					-In-Situ Vane Shear, 46.5 feet- S _{u undis} = 1070.2 psf- S _{u remold} = 633.4 psf- Sensitivity = 1.7 -In-Situ Vane Shear, 49.0 feet-
NAW C	In-Situ Vane Shear, 24.5 feet	25	3					344.0	S _{u undis} = 1157.6 psf50
5	GENERAL	NO	TES	, }	•	•	•	•	WATER LEVEL DATA
Dri Dri	Illing Contractor Wang Testing Se	. Boz	es zga	Drill Rig	g ecked	12-01 _{by} А	A. Kı		While Drilling Groundwater not observed At Completion of Drilling Ma mud in the borehole Time After Drilling NA Depth to Water NA The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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		CHECKED -	MAI, JMG	REVISED -
PLOT SCALE =	N.T.S	DRAWN -	FL	REVISED -
PLOT DATE =	1/23/2020	CHECKED -	MAI, JMG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

wangeng@wangeng.com 1145 North Main Street Lombard, IL 60148 Telephone: 630-953-9928 Fax: 630-953-9938

BORING LOG VST-01

WEI Job No.: 1100-04-01

AECOM Client Jane Byrne Interchange Project Section 16, T39N, R14E of 3rd PM Location

Datum: NAVD 88 Elevation: 593.55 ft North: 1897108.36 ft East: 1171435.63 ft Station: 7313+90.47

Offset: 2.00 LT

Page 2 of 2

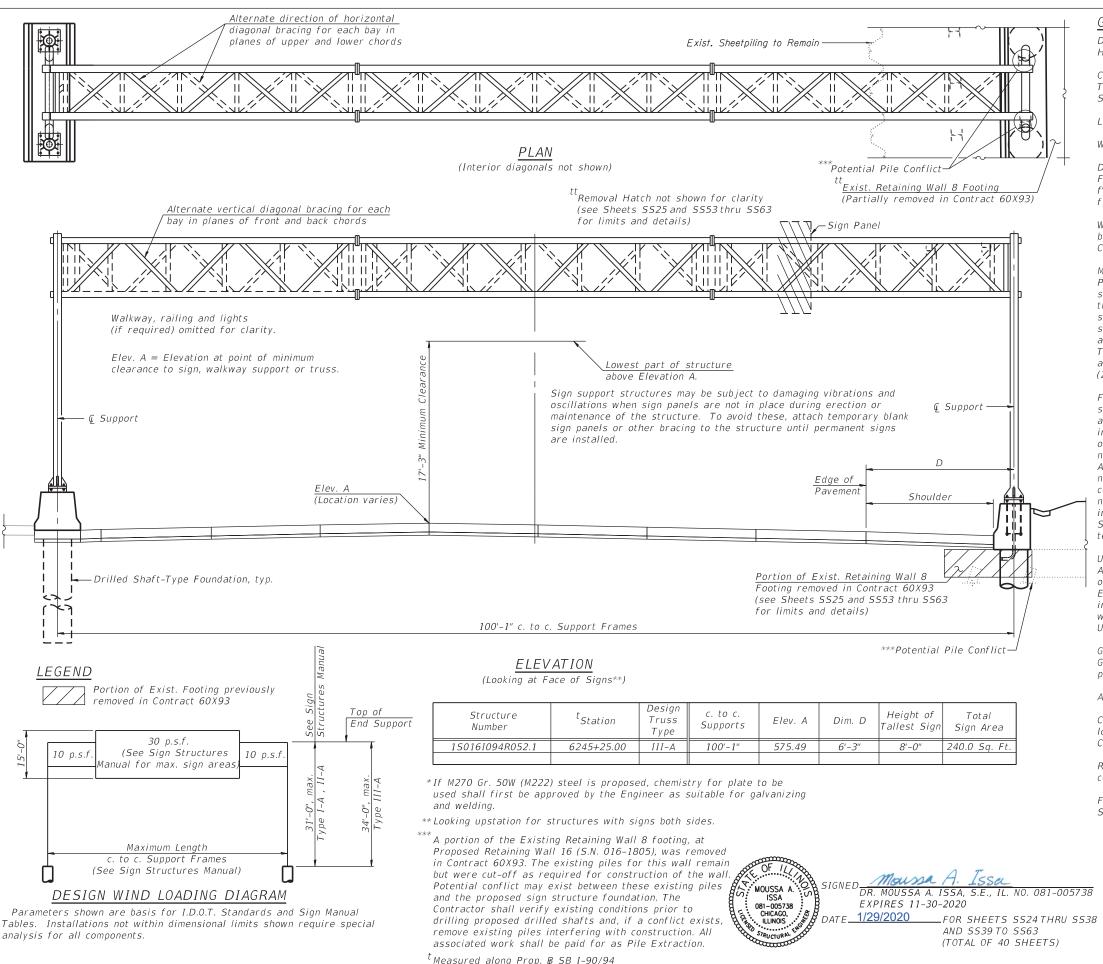
(H)	Prolle	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft) Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND DESCRIP		Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			S _{u remold} = 611.6 p: Sensitivity = 2.	sf/ 3/														
		E	Boring terminated at 49.50 ft															
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00401.G	Bed	gin Dri		AL NOTI Complete			1	2-01	-201	15	While Drilling	VATER L	EVE roun				obse	rved
			ontractor Wang Testing	Services	[Orill Rig	1				At Completion o	f Drilling	Z mı					
9		ller Iling M	R&N Logger lethod 2.25" HSA to 10',	F. Bozg						ırnia	Time After Drilling Depth to Water	ng <u>V</u> Z	NA NA					
WANG	ااات	•	ckfilled upon completion		-				_		The stratification between soil type	lines represent	the app	roxima may b	ate b e gra	oundar	/	

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORINGS III	F.A.I. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	90/94/290	2015	-018R		соок	1360	702
					CONTRACT	NO. 62	٩77
SHEET NO. SS23 OF SS83 SHEETS			ILLINOIS	FED. All	D PROJECT		



GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES: Field Units f'c = 3,500 p.s.i.

fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	101
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	68
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	39.3
PILE EXTRACTION	Ea.	2
FOUNDATION CONSTRUCTION AT EXISTING OBSTRUCTIONS	Ea.	2

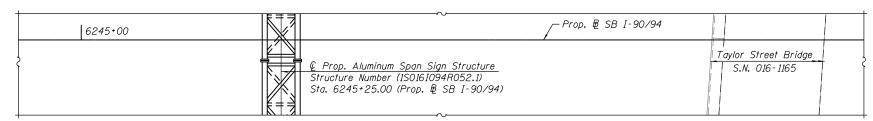
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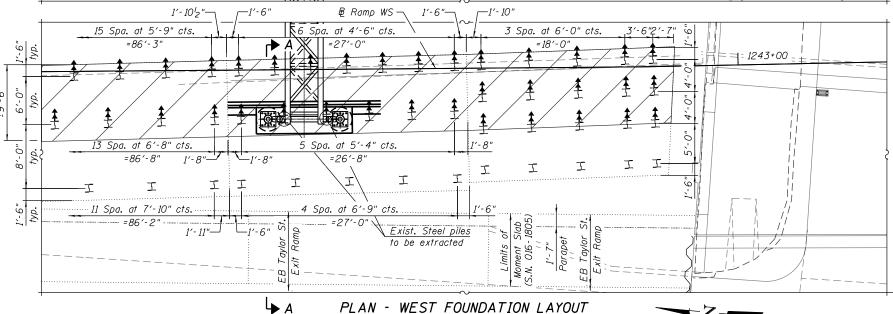
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PLOT DATE =	1/23/2020	CHECKED -	MAI, JMG	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – GENERAL PLAN &
ELEVATION – ALUMINUM TRUSS & STEEL SUPPORTS

SHEET NO. SS24 OF SS83 SHEETS





NOTES:

- 1. A portion of the Existing Retaining Wall 8 footing, at Proposed Retaining Wall 16 (S.N. 016-1805), was removed in Contract 60X93. The existing piles for this wall remain but were cut-off as required for construction of the wall. Potential conflict may exist between these existing piles and the proposed sign structure foundation. The Contractor shall verify existing conditions prior to drilling proposed drilled shafts and, if a conflict exists, remove existing piles interfering with construction. All associated work shall be paid for as Pile Extraction.
- 2. 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.
- 3. The Contractor shall field-verify location of existing utilities prior to removal/construction activities.
- 4. The Contractor shall exercise extreme caution during removal/construction to ensure that removal/construction activities, pile extraction, structure excavation and all other work will not have detrimental affects on adjacent structures, buildings or utilities. See Contract Special Provisions for details. Any damage to existing elements during removal/construction shall be repaired by the Contractor, at his/her expense, and at no cost to the Department.
- 5. See Special Provision for Foundation Construction at Existing Obstructions if obstructions are identified at the locations of proposed drilled shafts.

(Showing Previous Structure Removal and Existing Potential Conflicts) EB Taylor Street Exit Ramp Parapet @ Prop. Aluminum Span Sign Structure (Structure Number IS016I094R052.1) Sta. 6245+25.00 (Prop. № SB I-90/94) Varies from 11'-64" to 11'-8³4" Varies from 7'-6'4" to 7'-8³4" Exist. Retaining Wall 16 (S.N. 016 - 1805) 4'-0" Sign Structure Foundation Barrier 11 11 11 II I II Exist. Steel pile to be extracted Portion of Retaining wall Exist. Steel pile , 3'-0" Ø to remain, typ. SECTION A-A

LEGEND:



Portion of Exist. Footing previously removed in Contract 60X93



USER NAME =	jana issa	DESIGNED -	JJS, WM	REVISED -
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WEST FOUNDATION LAYOUT PLAN AND SECTION

SHEET NO. SS25 OF SS83 SHEETS

F.A.I. RTE	SECTION		COUNTY	TOTAL SHEETS	SHE
90/94/290			соок	1360	704
			CONTRACT	NO. 62	۹77
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BILL OF MATERIAL

UNIT

Each

Each

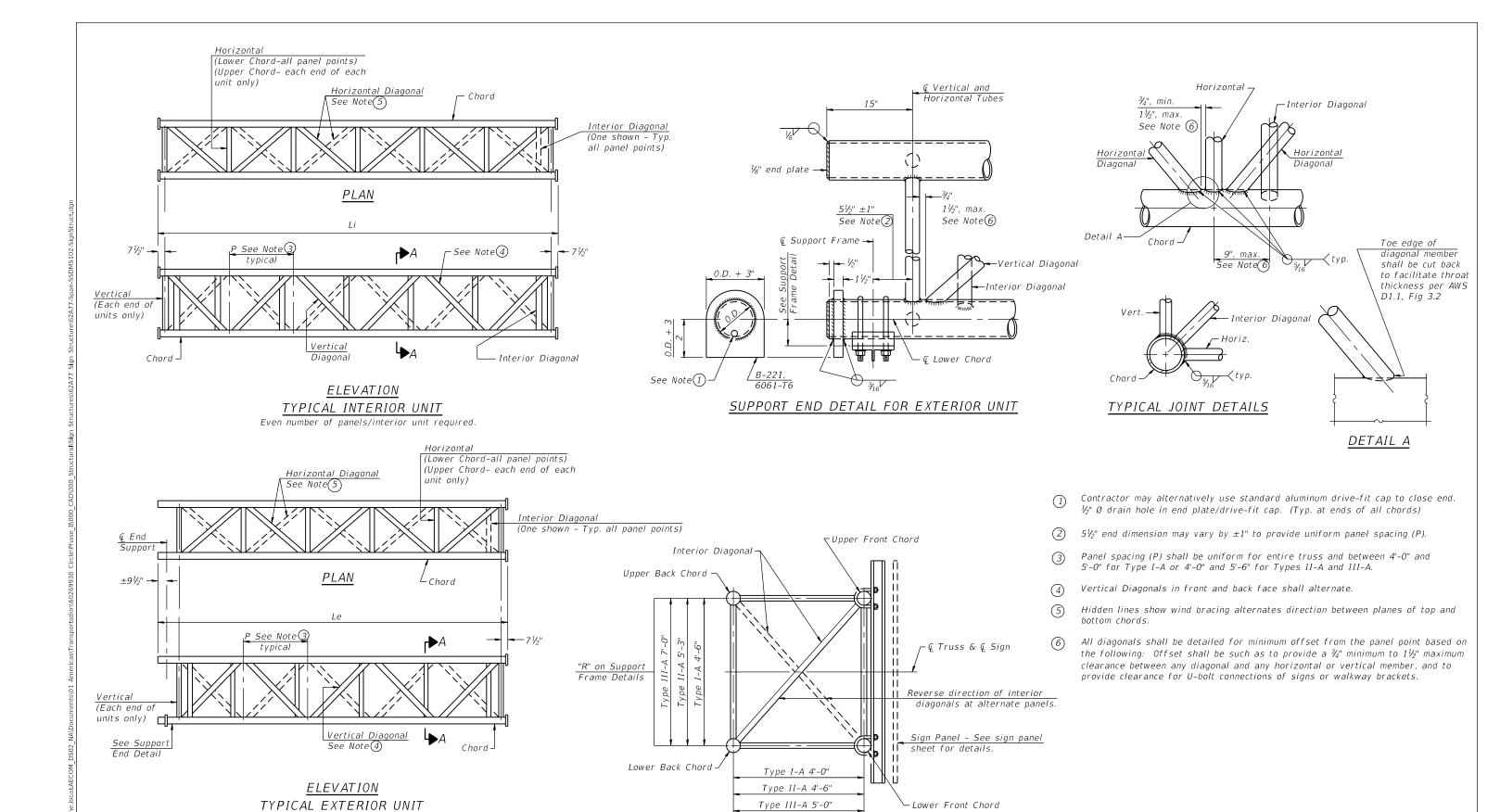
ITEM

FOUNDATION CONSTRUCTION A

EXISTING OBSTRUCTIONS

PILE EXTRACTION

TOTAL



SECTION A-A

L"T" on Support Frame Details

0S-A-2

2-17-2017

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Even or odd number of panels/exterior units allowed

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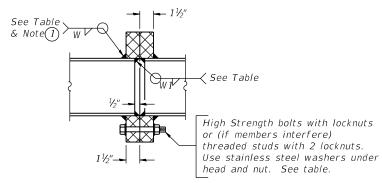
OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A

SHEET NO. SS26 OF SS83 SHEETS

TRUSS UNIT TABLE

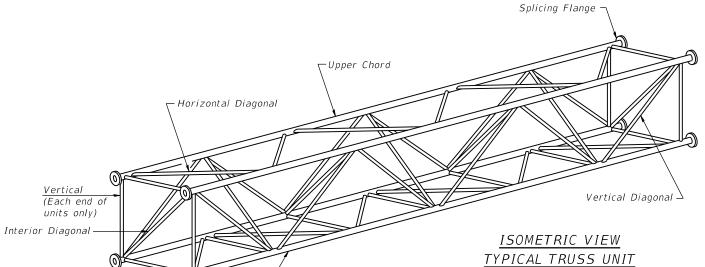
Structure	** Station	Design Truss		** Station Truss		erior Units			Interio			Upper &	& Lower ord	Vertical,	Horizontals; Horizontal,	Camber at	D. H.			g Flang		
Number	Station	Туре	No. Panels per Unit				No. Panels per Unit		Panel	0.D.	Wall	0.D.	and Interior Diagonals 0.D. Wall		Bolts No./Splice		Weld W	Sizes W1	A	В		
15016I094R052.1	6245+25.00	III-A	6	34'-1½"			6	33'-6"	5'-41/5"	7"	5/16"	31/4"	5/16"	21/2"		1"	7/16"	5/16"	111/2"	15"		
130101094N032.1	0243723.00	111-A	0	34-1/2	3-4/2	1	U	33-0	3-4/2	/	716	374	716	272	6	1	/16	716	1172	13		
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**Measured along Prop. B SB I-90/94



SECTION B-B

1) Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to ensure proper field assembly.



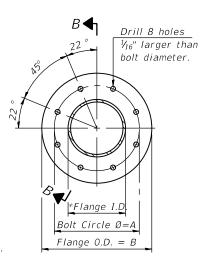
ASTM B221 Alloy 6061 Temper T6 ∠Lower Chord Note:

(Lower Chord - all panel points) (Upper Chord - each end of each unit only)

Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.

Drill 6 holes 1/₁₆" larger than bolt diameter. *Flange I.D

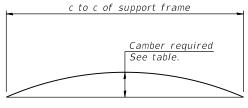
TRUSS TYPES I-A, II-A, & III-A



TRUSS TYPES II-A & III-A

SPLICING FLANGES

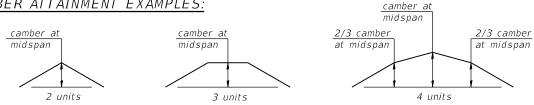
ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651 *To fit O.D. of Chord with maximum gap of $\frac{1}{16}$ ".



CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)

054-A-2

2-17-2017

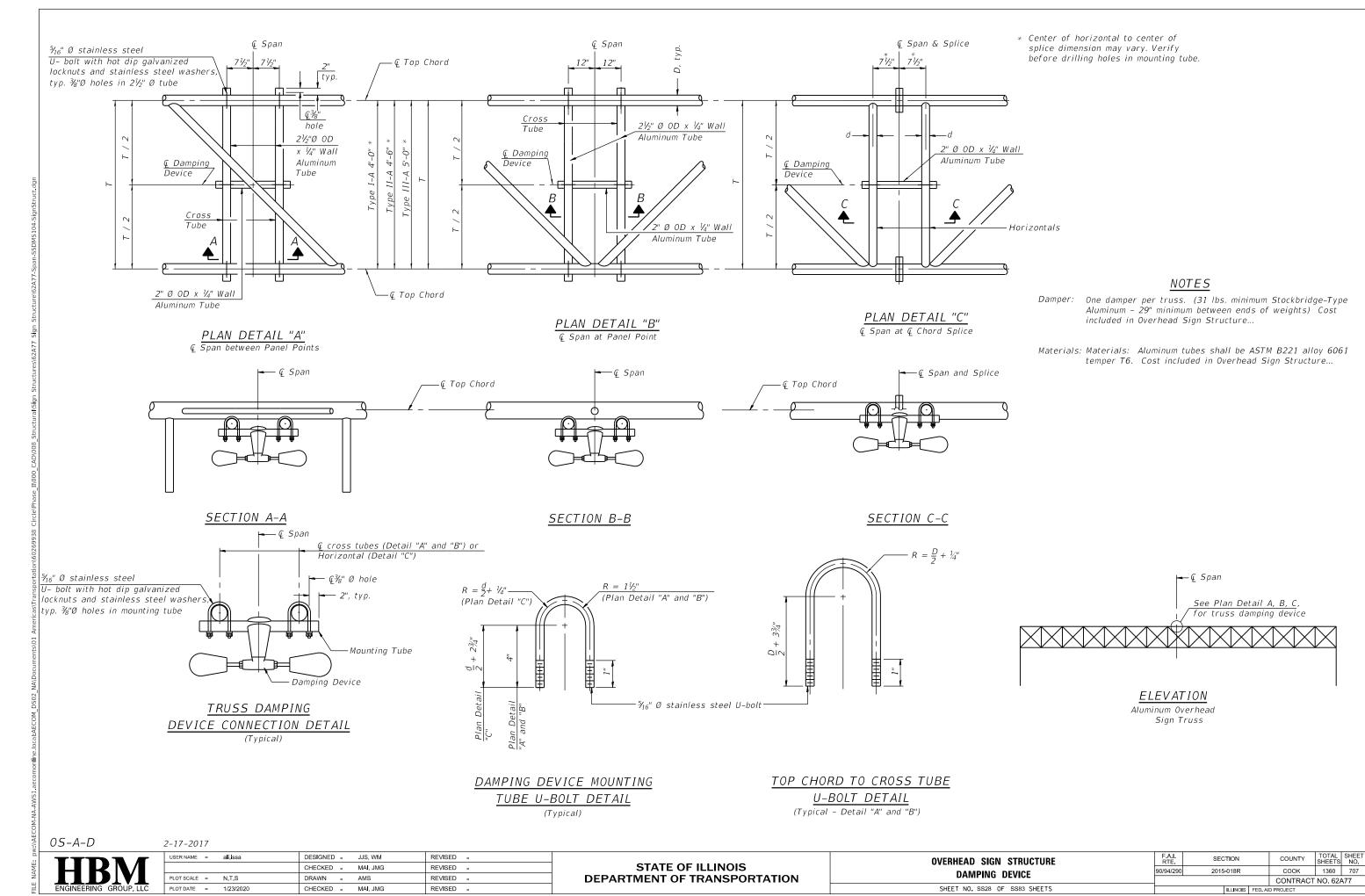


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			CHECKED	-	MAI, JMG	REVISED	-
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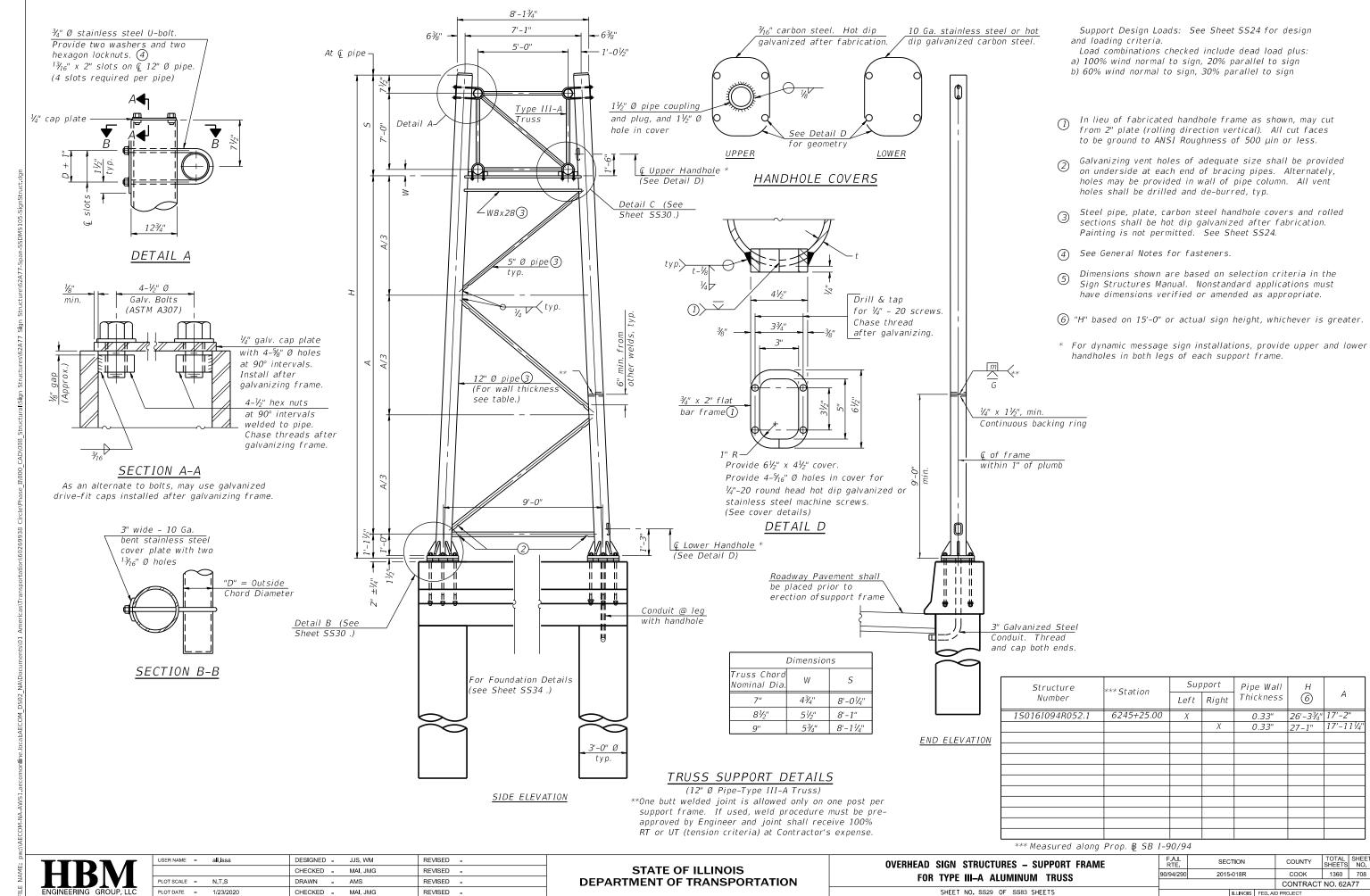
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD	 		– ALUN I–A, II–A		 DETAILS	
	SHEET	NO. SS27	OF SS83	SHEETS		

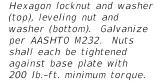
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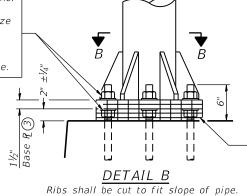


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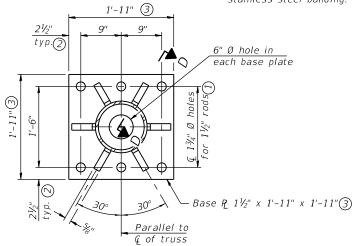


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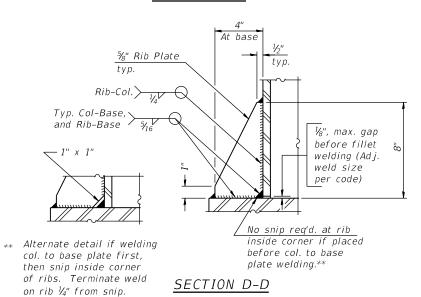


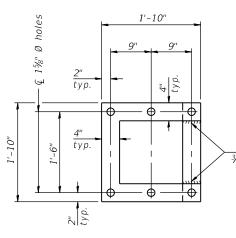


Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with ¾" stainless steel banding.

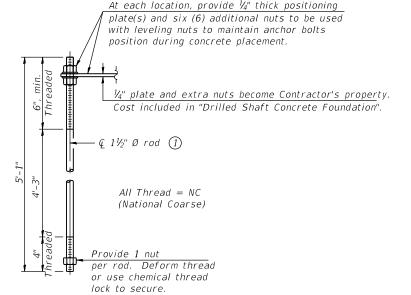


SECTION B-B





POSITIONING PLATE(S)



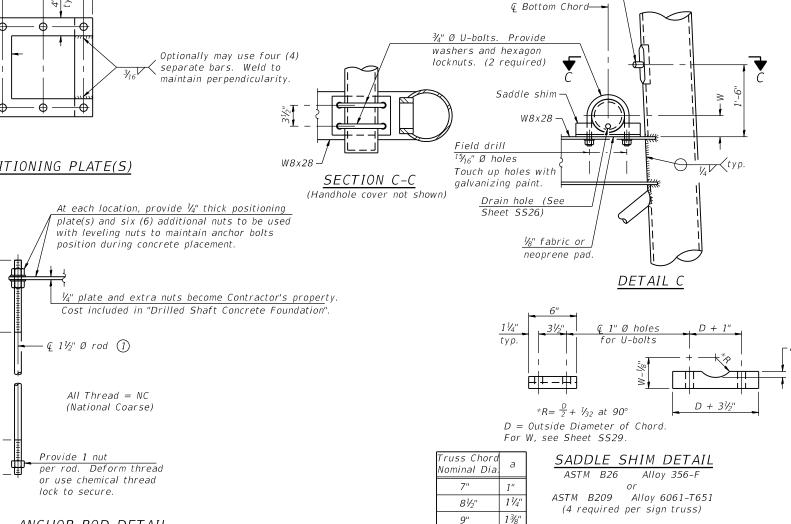
ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

TYPE III-A TRUSS 12" Ø PIPE SUPPORT FRAME DETAILS

For Type III-A Truss spans greater than 150 ft, and up to 160 ft.:

- (1) 1¾" Ø rod, 2" Ø holes
- (2) 2¾" edge distance
- ③ Base P₂ 15/8" x 1'-111/2" x 1'-111/2"



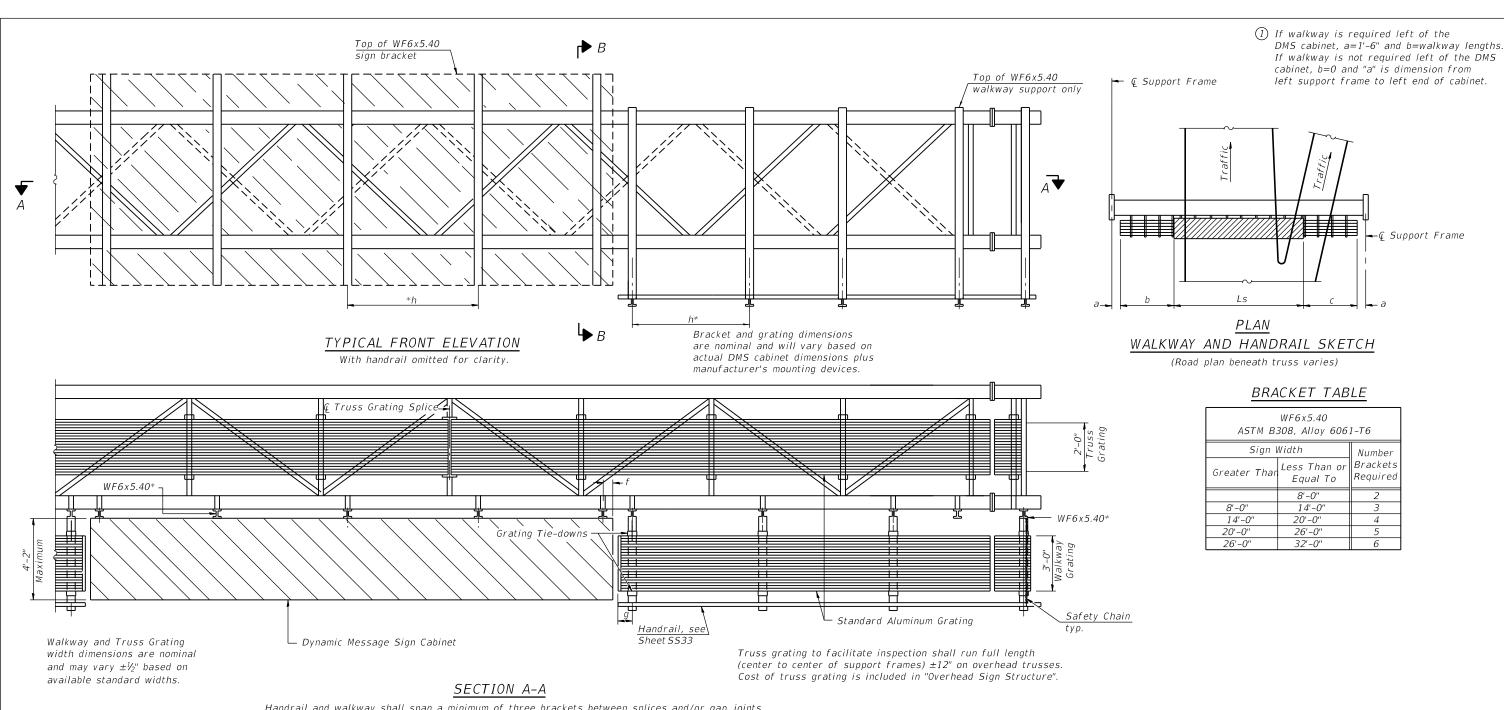
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			CHECKED	-	MAI, JMG	REVISED	-
PLOT SCALE	-	N.T.S	DRAWN	-	AMS	REVISED	-
PLOT DATE	-	1/23/2020	CHECKED	-	MAI, JMG	REVISED	-

11/2" Ø pipe coupling for conduit attachment (plug for shipping)



Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Grating and handrail splices placed as needed.

Structure Number	** Station	а	b	С	Ls	Walkway Grating and Handrail Lengths
1S016I094R052.1	6245+25.00	1'-6"	35'-4"	32'-8"	29'-1"	68'-0"

- * Space walkway brackets WF6x5.40 for efficiency and within limits shown:
- f = 12" maximum, 4" minimum (End of sign to Q of nearest bracket)
- g = 12" maximum, 4" minimum (End of walkway grating to Q of nearest support bracket)
- h = 6'-0'' maximum (\mathcal{C} to \mathcal{C} sign and/or walkway support brackets, WF6x5.40

Maximum DMS weight = 5000 lbs. 4'-2" maximum cabinet depth includes depth of cabinet plus connection to WF6x5.40.

For Section B-B and Grating Splice Details, see Sheet SS32. For Handrail Splice Details, see Sheet SS33.

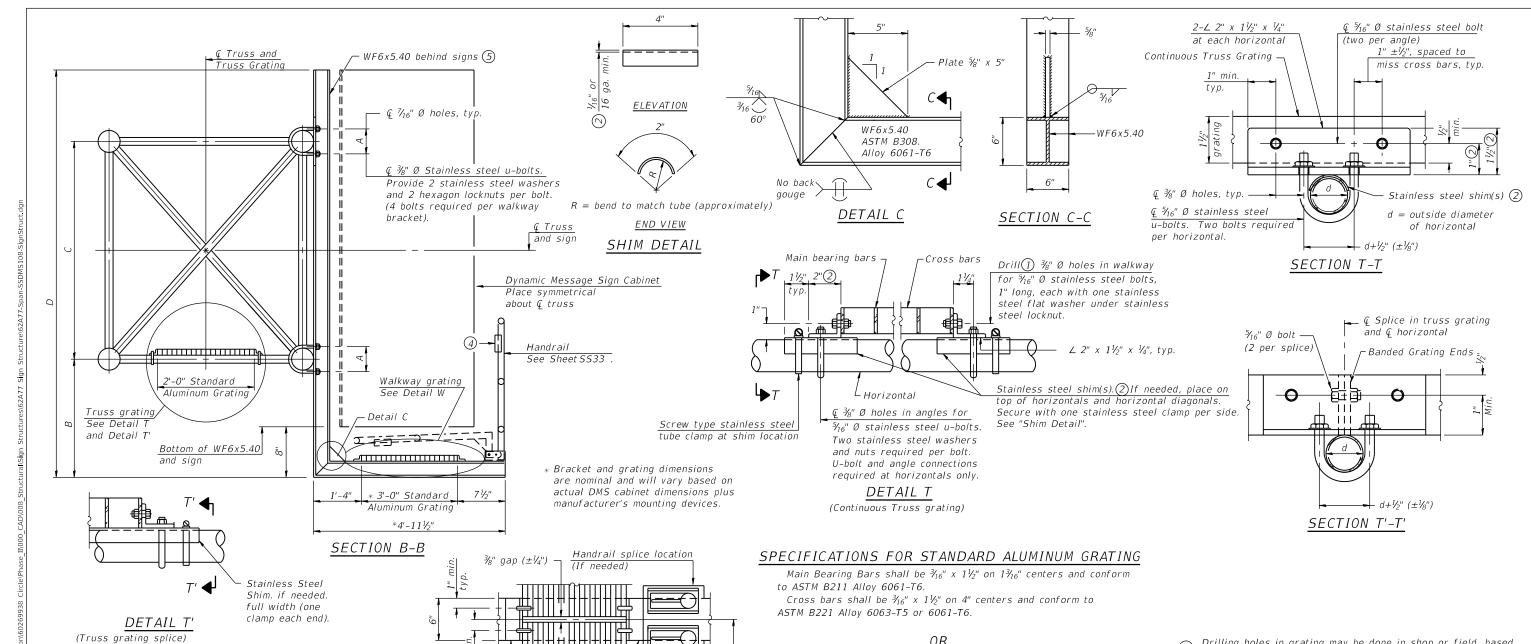
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** Measured along Prop. & SB 1-90/94

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		CHECKED -	MAI, JMG	REVISED -
PLOT SCALE =	N.T.S	DRAWN -	AMS	REVISED -
PLOT DATE =	1/23/2020	CHECKED -	MAI, JMG	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY **OVERHEAD SIGN STRUCTURES** 2015-018R COOK | 1360 | 710 ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS CONTRACT NO. 62A77 SHEET NO. SS31 OF SS83 SHEETS



<u>0R</u>

Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061–T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of $1\frac{1}{2}$ ", spaced on $1\frac{3}{16}$ " centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

^kStation

6245+25.00

⑥ B

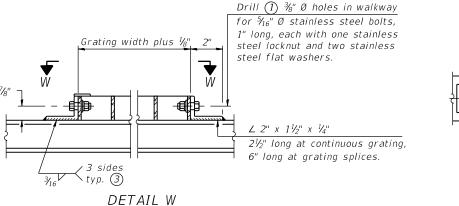
1'-11/5"

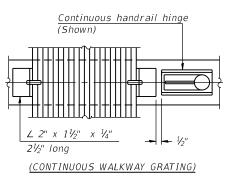
7'-0''

6 D

8'-7"

- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and $\frac{1}{4}$ " extension bars. (See Sheet SS33)
- 4 $R_{\rm l}$ $R_{\rm l}$
- (5) Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.
- (6) Based on actual height of tallest sign given on Sheet SS24





(AT WALKWAY GRATING SPLICE)

and grating

splice

ntinuous walkway grating SECTION W-W

0S-A-10-DMS

2-17-2017

(Walkway grating)

Details not shown same as Detail T.

Engineer's review and approval.

Alternate materials may be used subject to the

USER NAME =	ali,issa	DESIGNED -	JJS, WM	REVISED -
		CHECKED -	MAI, JMG	REVISED -
PLOT SCALE =	N.T.S	DRAWN -	AMS	REVISED -
PLOT DATE =	1/23/2020	CHECKED -	MAI, JMG	REVISED -

** Measured along Prop. & SB I-90/94

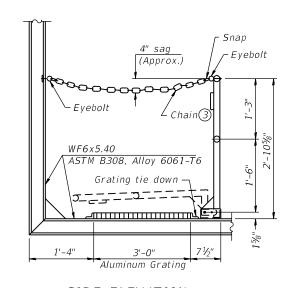
Structure

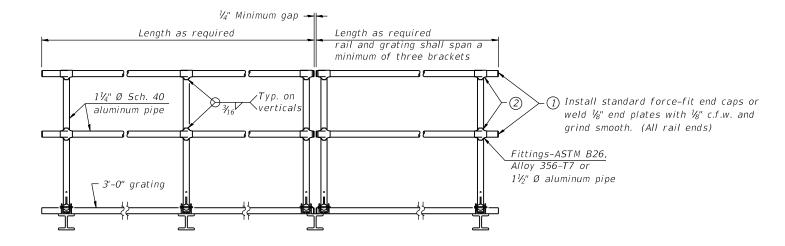
Number

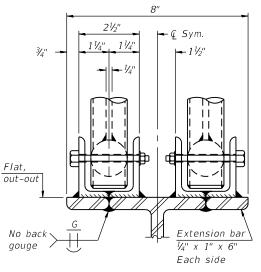
1S016I094R052.1

OVERHEAD SIGN STRUCTURES	F.A.I. RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS	90/94/290 20		-018R		соок	1360	711
ALILINATE ALUMINOM WALKWAT DETAILS TON DINS	CONTRA		CONTRACT	NO. 62	۹77		
SHEET NO. SS32 OF SS83 SHEETS			ILLINOIS	FED. All	D PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





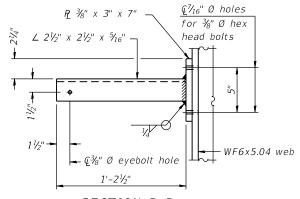


ELEVATION AT HANDRAIL JOINT (4)

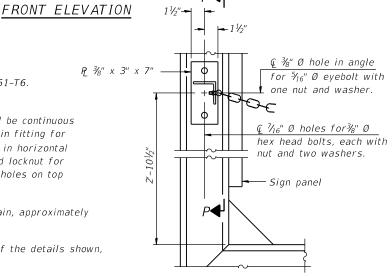
SIDE ELEVATION (Showing safety chain w/o sign)

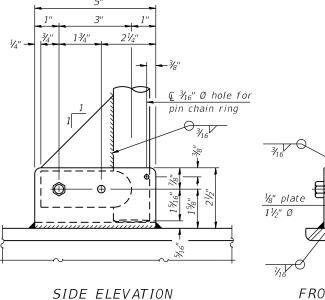
HANDRAIL DETAILS

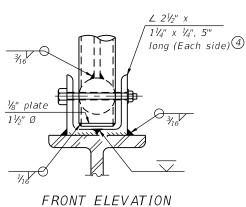
Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.



- Horizontal handrail member shall be continuous thru fitting. Provide $\frac{7}{16}$ " Ø hole in fitting for $\frac{3}{8}$ " Ø bolt. Field drill $\frac{7}{16}$ " Ø hole in horizontal rail member. Provide washer and locknut for bolt. (Use $\frac{1}{2}$ 16" eyebolts in $\frac{1}{2}$ 16" Ø holes on top rail at ends only.)
- ₹ type 304L stainless steel chain, approximately 12 links per foot.
- Extrusions may be used in lieu of the details shown, with approval of the Engineer.





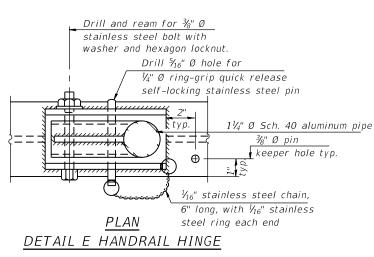


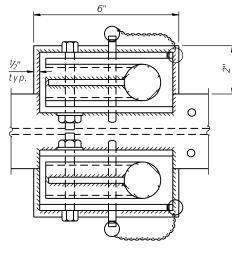
See "ELEVATION" at right for dimensions.

(With Sign Present)

SECTION P-P

2-17-2017

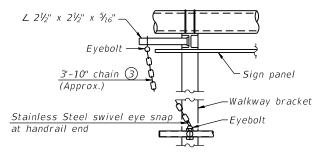


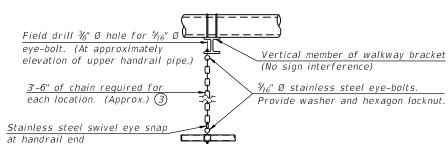


PLAN AT HANDRAIL JOINT Details not shown same as "PLAN"

ALTERNATE SAFETY CHAIN ATTACHMENT

Items not shown same as "Side Elevation" of "Handrail Details"





ALTERNATE SAFETY CHAIN ATTACHMENT

Details not shown similar to "Safety Chain" Details (Walkway omitted for clarity)

SAFETY CHAIN

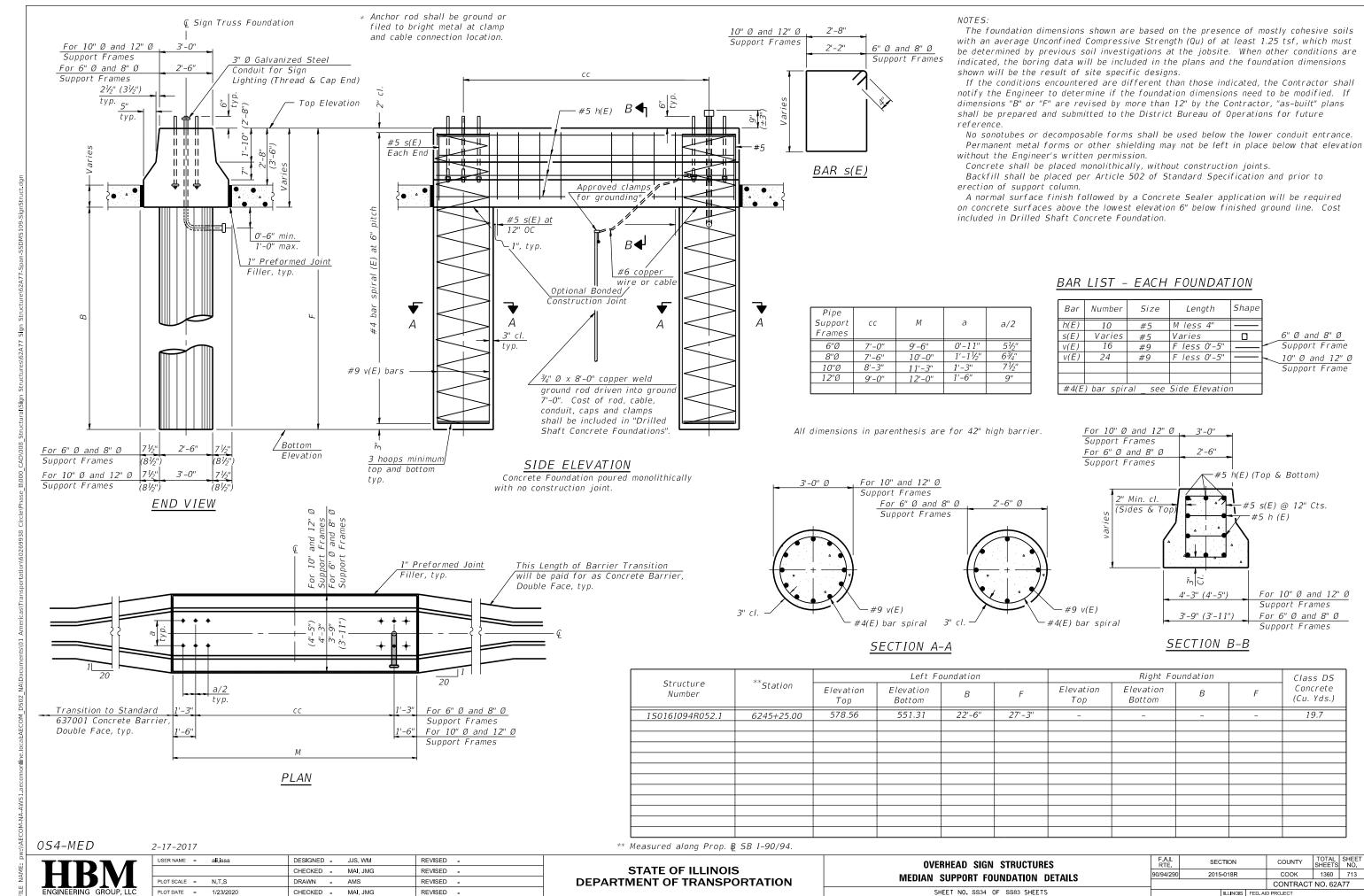
One required for each end of each walkway.

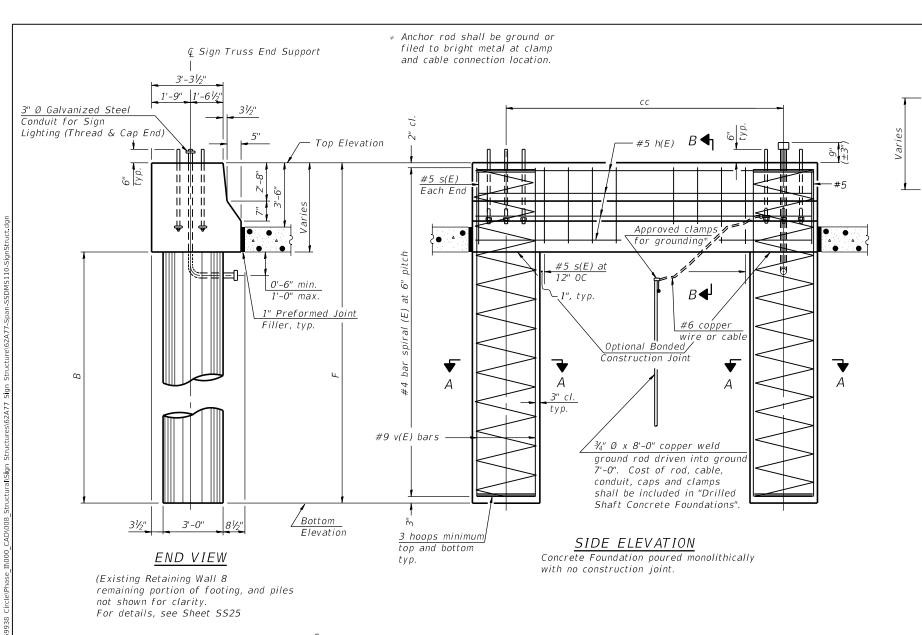
0S-A-11-DMS

USER NAME	-	ali,issa	DESIGNED	-	JJS, WM	REVISED	-
			CHECKED	-	MAI, JMG	REVISED	-
PLOT SCALE	-	N.T.S	DRAWN	-	AMS	REVISED	-
PLOT DATE	-	1/23/2020	CHECKED	-	MAI, JMG	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY **OVERHEAD SIGN STRUCTURES** 2015-018R COOK | 1360 | 712 ALTERNATE ALUMINUM HANDRAIL DETAILS FOR DMS CONTRACT NO. 62A77 SHEET NO. SS33 OF SS83 SHEETS





1" Preformed Joint Filler, typ.

NOTES: The f

2'-11"

BAR s(E)

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference

No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevations.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

2" Min. cl.

(Sides & Top)

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
h(E)	10	#5	M less 4"	
s(E)	Varies	#5	Varies	
v(E)	24	#9	F less 0'-5"	
#4(E) bar spir	al see	Side Elevation	7

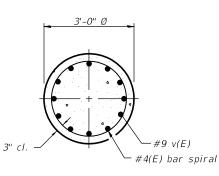
3'-31/2"

-#5 h(E) (Top & Bottom)

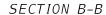
-#5 h (E)

#5 s(E) @ 12" Cts.

Pipe Support Frames	сс	М	а	a/2
12"Ø	9'-0"	12'-0"	1'-6"	9"



SECTION A-A



Characterist	skok		Left F	oundation			Right Fo	oundation		Class DS
Structure Number	**Station	Elevation Top	Elevation Bottom	В	F	Elevation Top	Elevation Bottom	В	F	Concrete (Cu. Yds.)
1S016I094R052.1	6245+25.00	-	-	-	-	577.80	550.55	22'-6"	27'-3"	19.6
						1				

** Measured along Prop. & SB I-90/94.



For Roadway Barrier 1'-6"
details and payment,

see Roadway Plans

a/2

for details)

USER NAME = jana issa	DESIGNED -	JJS, WM	REVISED -
	CHECKED -	MAI, JMG	REVISED -
PLOT SCALE = N.T.S	DRAWN -	AMS	REVISED -
PLOT DATE = 03/04/2020	CHECKED -	MAI, JMG	REVISED -

Μ

PLAN

(Existing Retaining Wall 8 remaining portion of footing and piles not shown for clarity – see Sheet SS25

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES	F.A.I. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
MEDIAN SUPPORT FOUNDATION DETAILS	90/94/290	2015	-018R		соок	1360	714
MEDIAN SOLIOIT TOOMDATION DETAILS					CONTRACT	NO. 62	۱ 77
SHEET NO. SS35 OF SS83 SHEETS			ILLINOIS	EED All	D PRO IECT		

wangeng@wangeng.com 1145 North Main Street Lombard, IL 60148 Telephone: 630-953-9928 Fax: 630-953-9938

BORING LOG 1165-B-02

WEI Job No.: 1100-04-01

Client AECOM
Project Jane Byrne Interchange
Location Section 16, T39N, R14E of 3rd PM

Datum: NAVD 88 Elevation: 574.80 ft North: 1895901.50 ft East: 1171749.50 ft Station: 7611+92.60

Offset: 48.4479 LT

Page 1 of 2

Profile		AND ROCK SCRIPTION	Depth (ft) Sample Type	recovery Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK	Depth (#)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
1. 1. 1. 1. 1. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	573.4	ck, ASPHALTPAVEMENT nse, brown SANDY		1	7 7	NP	15				- - -		11	3 4 3	0.75 P	23
0.0	gravel	BASE COURSE	5_	2	5 3 4	1.39 B	18			ff to hard, gray SILTY CL LTY CLAY LOAM, trace			12	3 10 9	1.80 B	19
		medium stiff, gray LTY CLAY. trace		3	0 0 0	0.25 B	24				- - - -	-				
			10	4	0 0 1	0.08 B	25				- - 35_		13	7 11 12	1.80 B	19
				5	0 0 1	0.08 B	27				- - -	-				
	-	-L _L (%)=36, P _L (%)=15 %Gravel=4.1 %Sand=13.8 %Silt=50.0 %Clay=32.1	- -15	6	0 0 1	0.08 B	27				- - 40_ -		14	5 8 15	4.92 B	19
		A-6 (16)		7	0 0 1	0.08 B	27				- - - -					
			20	8	0 1 1	0.50 P	30				45_		15	7 11 18	5.49 B	19
G.GDT 12/19/19				9	0 1 1	0.50 P	26				- - -	-				
1.GPJ WANGENG		GENERAI	25 L NO	10 TES	2	0.41 B	24			WATE	50_ R LEVE	L D	16 AT	4 8 17 A	2.95 B	22
Bei	gin Drilling	05-08-2013	Comple	ete Dri	lling		05-08	-201	3	While Drilling	<u> </u>			50 ft		
	lling Contractor	Wang Testing S				j				At Completion of Drilling	<u>¥</u>		18.5	50 ft		
MANGENGINO Dri Dri	ller P&I	N Logger	D. Wir	nd	Ch	ecked	by .	C. M	arin	Time After Drilling	NA					
Dri		2.25" SSA to 16', m	ud rot	ary t	herea	after,	, bori	ing		Depth to Water The stratification lines are	NA		-4- L	aa1-		
₹ A	backfilled upon completion								The stratification lines repre- between soil types: the actu	sent the app al transition	may b	ale bo e grad	Jundar <u>y</u> dual.	/		

wangeng@wangeng.com 1145 North Main Street Lombard, IL 60148

Telephone: 630-953-9928

Fax: 630-953-9938

BORING LOG 1165-B-02

WEI Job No.: 1100-04-01

Client AECOM

Project Jane Byrne Interchange

Location Section 16, T39N, R14E of 3rd PM

Datum: NAVD 88 Elevation: 574.80 ft North: 1895901.50 ft East: 1171749.50 ft Station: 7611+92.60 Offset: 48.4479 LT

SOIL AND ROCK SOIL AND ROCK DESCRIPTION DESCRIPTION --A-4 (3)----HARD DRILLING----Possible cobbles--> 4.50 P 17 5<u>0/</u>5 21 12 17 20 22 1.64 55_ --L_L(%)=29, P_L(%)=14--32 5<u>0/</u>2 > 4.50 9 13 21 13 8.12 --%Gravel=7.2----%Sand=22.8--60_ В 85_ --%Silt=47.3----%Clay=22.7--Strong, good rock quality, grayish --A-6 (8)-white, fresh, slightly to moderately fractured, joint breaks with little to no infill, highly vuggy DOLOSTONE Run#1: 86to 96 feet 8 14 36 3.69 22 --RECOVERY=100%--В --RQD=70%--⁹⁰ Very dense, gray SILTY LOAM, little to some gravel, possible cobbles 48 5<u>0/</u>3 4.00 12 70_ Boring terminated at 96.00 ft --L_L(%)=22, P_L(%)=12----%Gravel=8.4----%Sand=26.3----%Silt=53.9--19 25 38 5.00 10 --%Clay=11.4--100_ **WATER LEVEL DATA GENERAL NOTES** Begin Drilling 05-08-2013 05-08-2013 18.50 ft Complete Drilling While Drilling **Drilling Contractor** Wang Testing Services Drill Rig At Completion of Drilling 18.50 ft NA P&N D. Wind Checked by **C. Marin** Time After Drilling $ar{m{\Lambda}}$ NA Drilling Method 2.25" SSA to 16', mud rotary thereafter, boring Depth to Water The stratification lines represent the approximate boundary between soil types: the actual transition may be gradual. backfilled upon completion



USER NAME =	ali,issa	DESIGNED	-	JJS, WM	REVISED	-
		CHECKED	-	MAI, JMG	REVISED	-
PLOT SCALE =	N.T.S	DRAWN	-	AMS	REVISED	-
PLOT DATE =	1/23/2020	CHECKED	-	MAI, JMG	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

wangeng@wangeng.com 1145 North Main Street Lombard, IL 60148 Telephone: 630-953-9928 Fax: 630-953-9938

BORING LOG 16-RWB-05

WEI Job No.: 1100-04-01

Client AECOM
Project Jane Byrne Interchange
Location Section 16, T39N, R14E of 3rd PM

Datum: NAVD 88 Elevation: 592.35 ft North: 1895983.56 ft Page 1 of 2

Elevation: 592.35 ft North: 1895983.56 ft East: 1171638.82 ft Station: 7325+32.44 Offset: 17.9588 LT

Profile	SOIL AND ROCK (L) DESCRIPTION	Sample Type	Sample No. SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft) Sample Type	Sample No. SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
7 4 4 4 4 4 4 4 4	Dense, white CRUSHED STONEFILL		1 20 22 22	NP	4				11 0 0 1	< 0.25 P	25
	5_		2 4 14 19	NP	4			30	12 0 0 0	0.16 B	26
	Stiff, black and brown SILTY CLAY LOAM, trace gravelFILL Stiff, black and brown LOAM to		3 6 6 7	1.15 B	16			- - - -			
	Silf, plack and brown LOAM to SILTY LOAM, trace gravelFILL 10_ 581.9 Very stiff, brownish gray SILTY		4 3 2 3	NP	11			35	13 0 0 0	0.08 B	28
	CLAY, trace gravel 579.4 Very soft to medium stiff, gray		5 3 4 4	2.46 B	27			- - - -			
	CLAY to SILTY CLAY, trace gravel		6 2 2 2	0.49 B	28			40	14 0 0 1	0.16 B	27
			7 0 0 0 0	0.16 B	33			- - - -			
	20_		8 0 0 0	0.25 B	30			45	15 0 0 3	0.57 B	24
GDT 12/19/19			9 0 1 2	0.41 B	19		edium dense, gray SILT to LTY LOAM, trace gravel Df	- - - - - - - - -			
11000401.GPJ WANGENG.GDT	25_		10 0 0	0.16 B	28		MATER	50	16 11 10 11	NP	15
7,104	GENERAL Negin Drilling 07-24-2014 Co				17.24	-2014		LEVEL DA		oheo:	ned
D D B	egin Drilling 07-24-2014 Col rilling Contractor Wang Testing Serv	mplete [•		1 -24	-2014		groundwa ▼ mud in			
O		Voods			bv	C. Marin	Time After Drilling	· NA	THE DO	GIIOI	·
의	rilling Method 2.25' SSA to 10', mud						Depth to Water $\underline{\Psi}$	NA			
加 Dr											

wangeng@wangeng.com

Telephone: 630-953-9928

1145 North Main Street

Lombard, IL 60148

Fax: 630-953-9938

BORING LOG 16-RWB-05

WEI Job No.: 1100-04-01

Client AECOM
Project Jane Byrne Interchange
Location Section 16, T39N, R14E of 3rd PM

Datum: NAVD 88 Elevation: 592.35 ft North: 1895983.56 ft East: 1171638.82 ft Page 2 of 2

Station: 7325+32.44 Offset: 17.9588 LT

	AND ROCK SCRIPTION	(ft) Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
540.6 Brown, coa 538.5 Hard, gray trace gravel	SILTY CLAY LOAM,	5	17	10 11 15	5.25 B	16									
LOAM to S	ery dense, gray SILTY ILT, trace gravel, sand seams DRY		18	14 18 18	NP	12									
527.4 Boring term	68 inated at 65.00 ft	5	19	28 30 32	NP	17									
	70	- - - - - - - - -													
		NOT omplete	e Dril	lling)7-24			WATER While Drilling	groun	dwa	ater	not		
Driller R&. Drilling Method 2	.25' SSA to 10', mud	Wood	ds ry tl	Cherea	ecked I fter,	by bori	C. M ng		At Completion of Drilling Time After Drilling Depth to Water The stratification lines repressed between soil types: the actual	NA NA ent the app					5



USER NAME = ali.issa	DESIGNED - JJS, WM	REVISED -
	CHECKED - MAI, JMG	REVISED -
PLOT SCALE = N.T.S	DRAWN - AMS	REVISED -
PLOT DATE = 1/23/2020	CHECKED - MAI, JMG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

wangeng@wangeng.com 1145 North Main Street Lombard, IL 60148 Telephone: 630-953-9928 Fax: 630-953-9938

BORING LOG VST-07

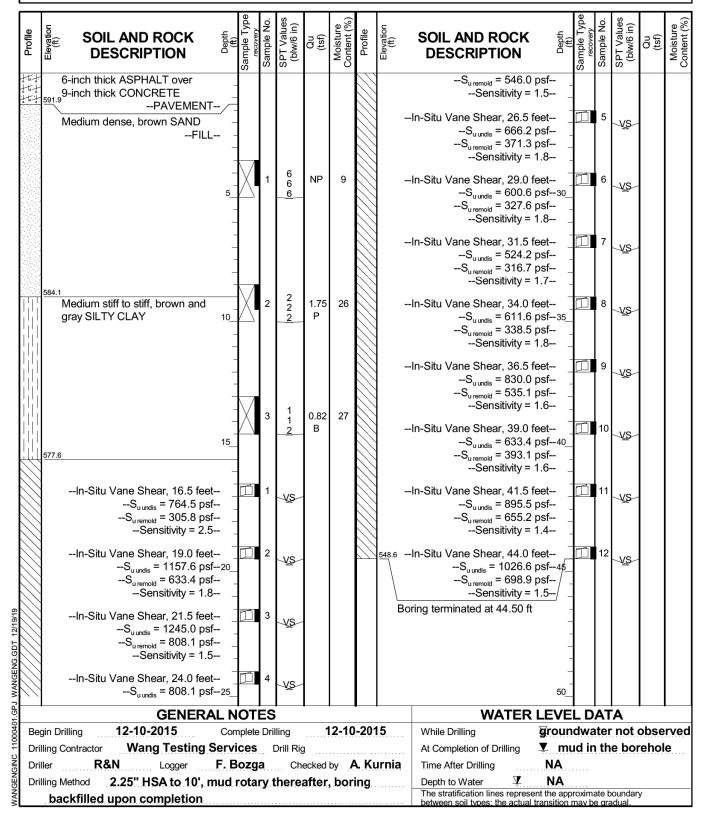
WEI Job No.: 1100-04-01

Client AECOM
Project Jane Byrne Interchange
Location Section 16, T39N, R14E of 3rd PM

Page 1 o

Datum: NAVD 88 Elevation: 593.11 ft North: 1895740.00 ft East: 1171636.91 ft Station: 6247+22.16

Station: 6247+22.16 Offset: 105.461 RT

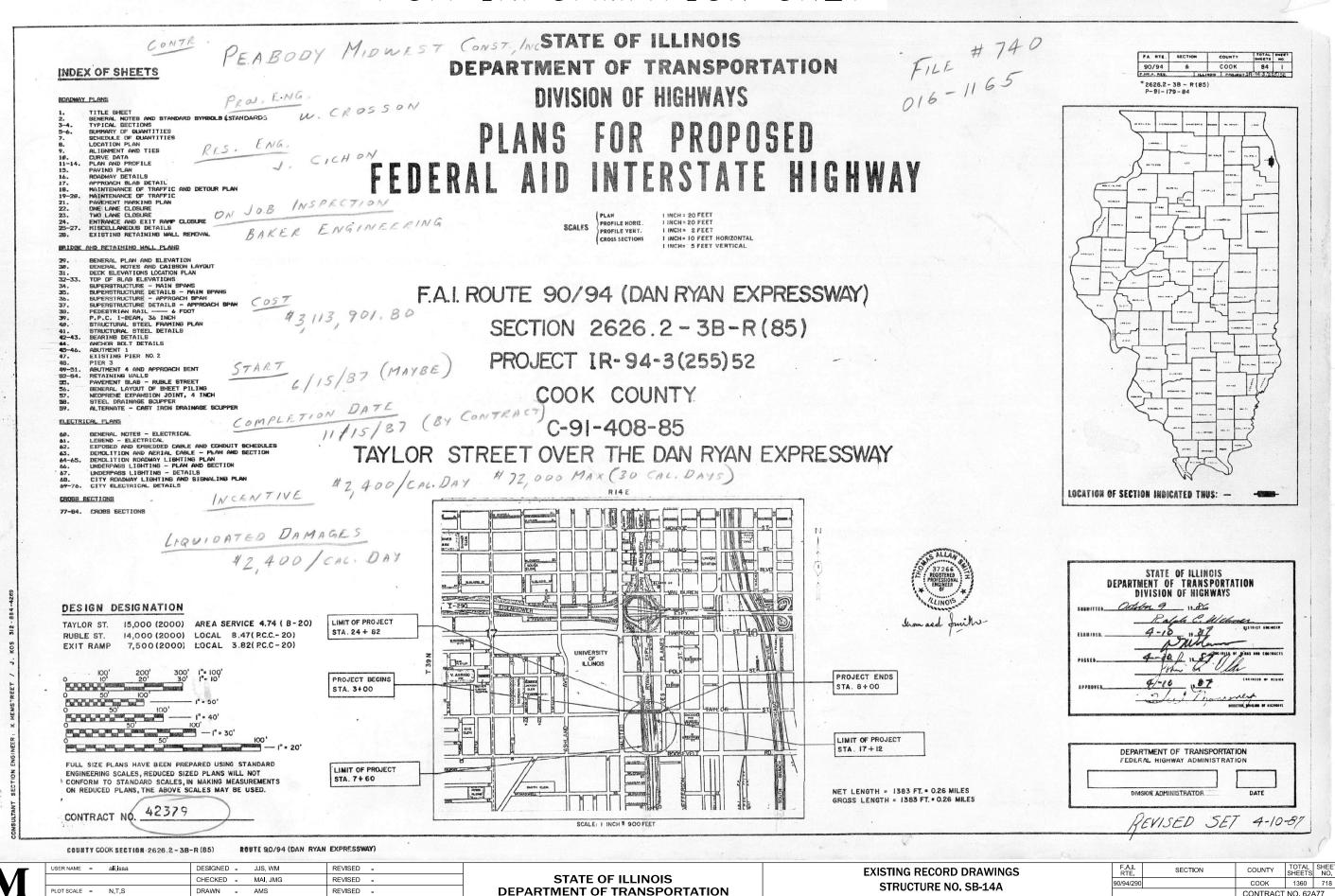


HBM
ENGINEERING GROUP, LLC

USER NAME =	=	ali,issa	DESIGNED	-	JJS, WM	REVISED	-
			CHECKED	-	MAI, JMG	REVISED	-
PLOT SCALE =	=	N.T.S	DRAWN	-	AMS	REVISED	-
PLOT DATE =	-	1/23/2020	CHECKED	-	MAI, JMG	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORINGS III	F.A.I. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	90/94/290				соок	1360	717
					CONTRACT	NO. 62/	۹77
SHEET NO. SS38 OF SS83 SHEETS			ILLINOIS	FED. AII	PROJECT		



CONTRACT NO. 62A77

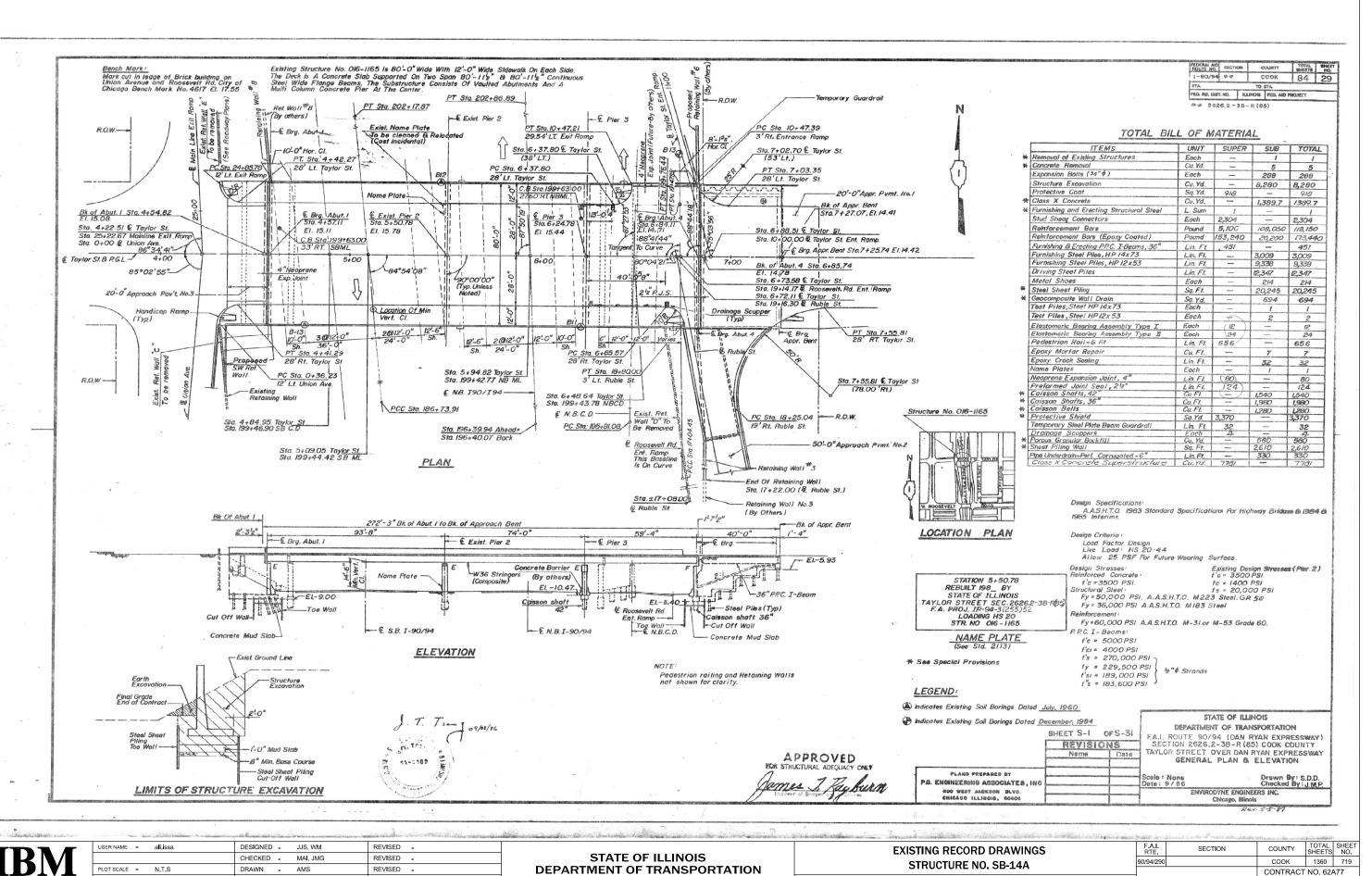
SHEET NO. SS39 OF SS83 SHEETS

PLOT DATE = 1/23/2020

CHECKED - MAI. JMG

REVISED -

0



SHEET NO. SS40 OF SS83 SHEETS

1:08:37 AM

1/23/2020

CHECKED - MAI. JMG

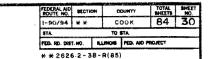
REVISED -

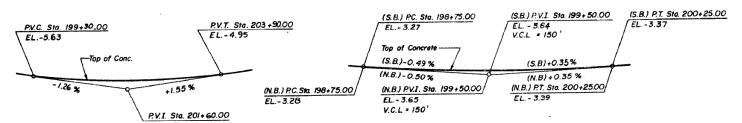
C. Sta. 6+55.30

P.V.I. Sta. 7+15.30 EL. 14.24 V.C. L =120'

Top. El. - 10. 47 Pier 3 Top El. - 11. 40 Abut. 4

P.T. Sta. 7+75.30





P.V. I. Sta. 17+50.00 El. 11:99 VC = 120' P. T Top of Concrete P. T. Sta. 18+10.00 P.C.Sta. 16+90.00 EI. 13.02 +1.72 % EI 10 43 Sta. 18+75.76 Meet Taylor Street

B RUBLE STREET

CAISSON SCHEDULE

Pier 3, 184 6+24.78 30'-7'2" 283 6+24.78 8'-7'2

> 4 6+84.11 5 6+84.37 6 6+84.64 23'-11'8" 6+84.90 35'-1178"

No. Size Length Shape 56 #9 35'-3" ----98 #9 38'-0" ----

8 #4 470'-0" MMM

Unit Quantity

Sp 2 14 #4 426-2" MWW

Reinforcement Bars Lbs. 25870 Caisson Shafts, 36" C.F. 1979.3

Caisson Shafts, 42 " C.F. 1539.6 Caisson Bells C.F. 1279.3

BILL OF MATERIAL

l t e m

V31

V32

Station Offset

2 6+83.58 23'-11'6" 3 6+83.85 12'-0"

€ N.B. COLLECTOR DISTRIBUTOR

243.41 1.95

-€ Taylor Street

59'-4"

CAISSON LAYOUT

€ I- 90/94

P.T. Sta. 6+55.00 EL. 15.08

P.V.I. Sta. 5+55.00

P.C. Sta. 4+55.00 EL. 16.48 V.C.L = 200'

GENERAL NOTES

See Proposal For Boring Data And Historical Plans Dated July 1960.

Field Welding Of Construction Accessories Will Not Be Permitted To The Bottom Flange Of Beams Nor To The Top Flange For A Distance Equal To-One-Fourth The Span Length Each Way From The Pier Supports. Field Welding in Other Areas Will Be Permitted Only When Approved By The Engineer.

The Main Load Carrying Member Components Subject To Tensile Stress

The Contractor Shall Drive 3 Test Piles in A Permanent Location. One At Abut. No. 4, One At Approach Bent And One At Retaining Wall No.3 As Directed By The Engineer Before Ordering The Remainder Of Piles.

Expansion Botts Shall Consist Of Approved Expansion Anchors Providing Minimum Certified Proof Load # 4,080 lbs., And %4** \$\delta x \ 12** Hooked Botts.

Plan Dimensions And Details Relative To Existing Structure Move Been Taken From Existing Plans And Are Subject To Nominal Construction Variations. It Shall Be The Contractor's Responsibility To Verify Such Dimensions And Details in The Field And Make Necessary Approved Adjustments Prior To Construction Or Ordering Of Materials. Such Variation Shall Not Be Cause For Additional Compensation For A Change in The Scope Of The Work, However, The Contractor Will Be Poid For The Quantity Actually Furnished At The Unit Price Bid For The Work.

Exterior Beams: The Final Finish Coat Shall Be A Medium Yellow Vinyl Enamel Paint Which Conforms With Section 712, Article 712,26 Of The Special Provision's And As Directed By The Engineer. The Intermediate. Coat Shall Be A High-Build Vinyl Paint Of A Color Which Shall

Interior Beams: The Finish Coat Shall Be A Silver Colored High-Build Viny Point Which Conforms With Section 712, Article 712.26 Of The Special

Fasteners Shull Be High Strength Bolts. Bolts "\$" \$, Open Holes ¹⁵se "\$, Bolts 34" \$, Open Holes ¹⁵se "\$,

Calculated Weight of Structural Steel = M - 183 = 48,455 Lbs.

M - 222 or M - 223, Grade 50 = 510,526 Lbs.

Anchor Bolts Shall Be Set Before Bolting Diaphragms Over

Shall Conform To The Supplemental Requirements For Notch Toughness Zone 2. These Components Are The Wide Flange Beams And All Splice Plate Material Of The Wide Flange Beams.

Reinforcement Bars Shall Conform To The Requirements Of A.A.S.H.T.O. M-3I,M-42 or M-53,Grade 60.

The Structural Steel Bearing Plates Of The Elastomeric Bearing Assembly Shall Conform To The Flequirements Of A.A.S.H.T.O. M222 or M223,Gr.50.

The Back Face Of Abutment ! And Retaining Walls Shall Be Waterproofed According To Article 503.11 Of The Standard Specifications.

Bearing Seat Surface Shall Be Constructed Or Adjusted To The Designated Elevations Within A Tolerance Of 'le Inch. Adjustment Shall Be Mode Elimer By Grinding The Surface Or By Shimming The Bearing. Two 'e" Adjusting Shims, Of The Dimensions Of The Bottom Bearing Plate, Shall Be Provided For Each Bearing In Addition To All Other Plates Or Shims. (For Type I Elastomeric Bearings, Shims Of The Dimensions Of Top Plate Shall Be Provided And Placed As Detailed.)

The Zinc-Silicate And Vinyl Paint System Shall Be Used For Shop And Field Painting Of Structural Steel Except Where Otherwise Noted.

Provisions And As Directed By The Engineer.

SHEET S-2 OF S-3!

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EAL ROUTE 90/94 (DAN RYAN EXPRESSWAY) SECTION 2626.2-38-R (85) COOK COUNTY
TAYLOR STREET OVER DAN RYAN EXPRESSWAY
GENERAL NOTES & CAISSON LAYOUT

Date: 9/86 TRODYNE ENGINEERS INC. Chicago, Illinois

EL.-8.52 V.C. L = 460'

CURVE DATA

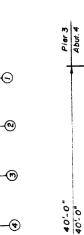
N.B. COLLECTOR S.B. I - 90/94 DISTRIBUTOR Δ = 5°55'49" R = 3819.72' D = 1°30'00" T = 197.85' D = 0°18'00" T = 772.408' L = 395.36' E = 5.12'

N.B. I-90/94 ENTRANCE RAMP Δ = 3°39'49" R = 3806.59' D = 1°30'19" T = 121.74' R = 11,460.000' D = 0°30'00" T = 328.570' L = 656.950' E = 4.709'

Sta. 6+24.78

⊕

PROFILE GRADES



TOP PLAN

CAISSON DETAIL

€ TAYLOR ST

Sp 1 (4" pitch) (use 3 Sp 2 (4" pitch) (use 3 3-6" Pier 3 5-0" Abut 4 14-#9 Vs equally spaced, Pier 3 14-#9 V32 equally spaced, Abut. 4 Est. Bott. El. -50. 47 Pier 3 Est. Bott. El. -51.40 Abut. 4 Exact Elevations to be determined by the Engineer in the field. Bell Ø = 9'-9" Bell Ø = 6'-6"

LEGEND

Limit of "Caisson Bells"

	PLANS	PREP	ARED	BY	
P.G. ENG	NEER	ING A	880	CIATES	B, IN
60	0 WES	T JAC	KSON	BLVD.	
CH	ICAGO	ILLIN	018,	60604	

USER NAME =	-	ali,issa	DESIGNED	-	JJS, WM	REVISED -
			CHECKED	-	MAI, JMG	REVISED -
PLOT SCALE =	-	N.T.S	DRAWN	-	AMS	REVISED -
PLOT DATE =	-	1/23/2020	CHECKED	-	MAI, JMG	REVISED -

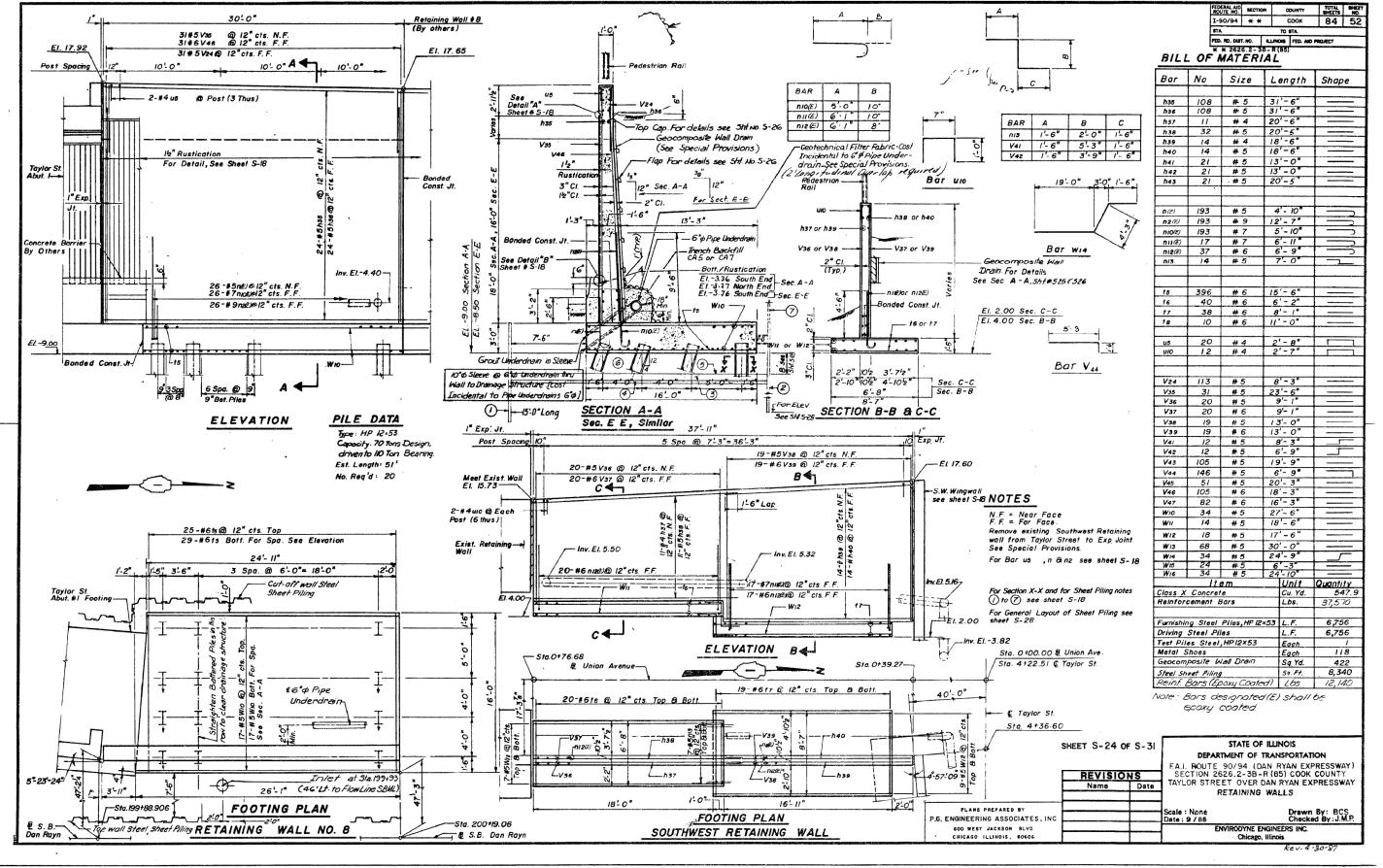
Sta.

Sta. 6+84.11

88°-44'-18"-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** EXISTING RECORD DRAWINGS STRUCTURE NO. SB-14A SHEET NO. SS41 OF SS83 SHEETS

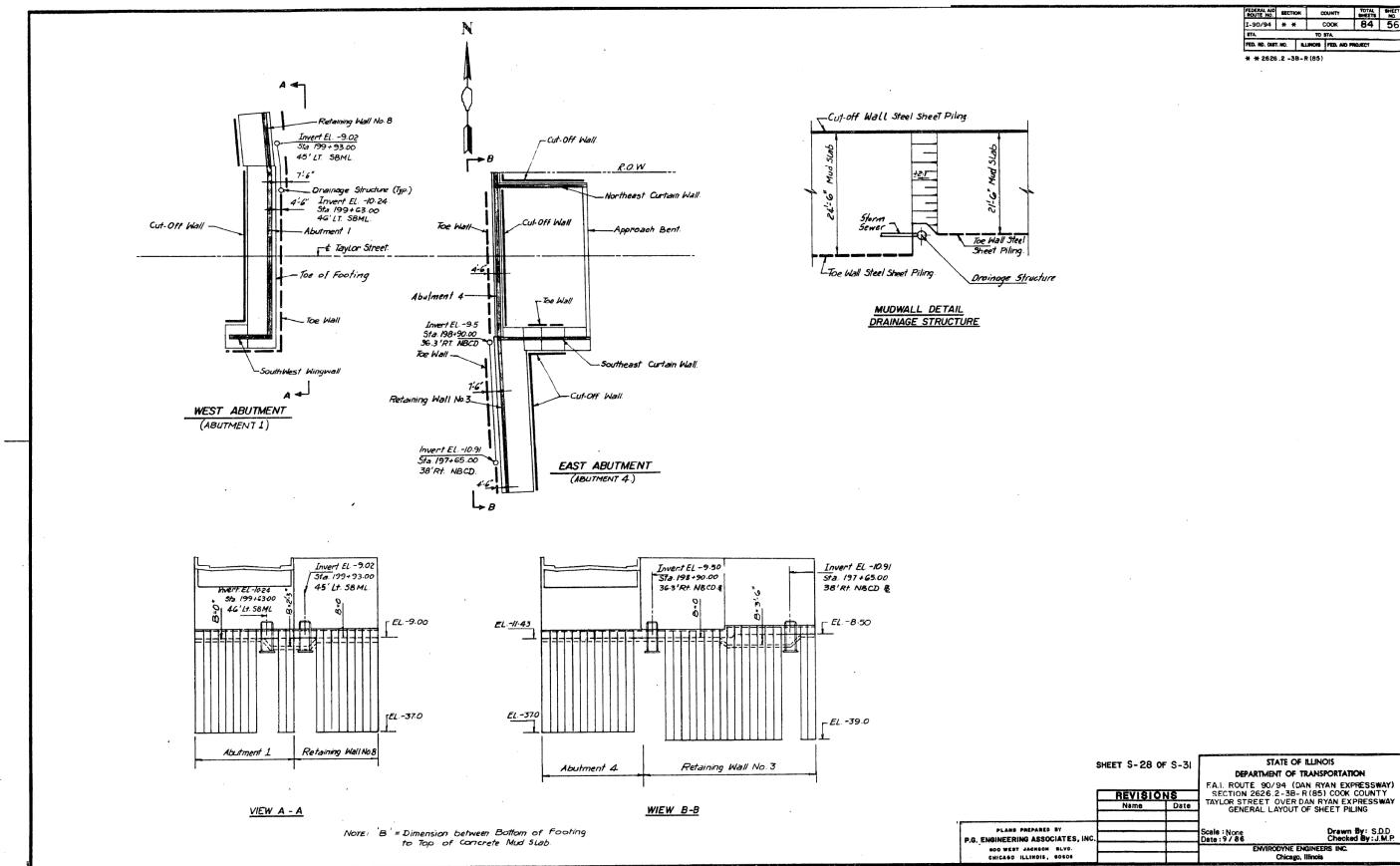
COUNTY 90/94/290 COOK 1360 720 CONTRACT NO. 62A77



HBM

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS STRUCTURE NO. SB-14A SHEET NO. SS42 OF SS83 SHEETS





USER NAME =	ali,issa	DESIGNED -	JJS, WM	REVISED -
		CHECKED -	MAI, JMG	REVISED -
PLOT SCALE =	N.T.S	DRAWN -	AMS	REVISED -
PLOT DATE =	1/23/2020	CHECKED -	MAI, JMG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. SB-14A

SHEET NO. SS43 OF SS83 SHEETS

F.A.I. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEE NO.
0/94/290				соок	1360	722
				CONTRACT	NO. 62/	۱77
		ILLINOIS	EED AL	D PPO JECT		

INDEX OF VOLUMES

NO. OF SHEETS VOL.NO. DESCRIPTION 151 ROADWAY PLANS & GENERAL SHEETS MAINTENANCE OF TRAFFIC & ROADWAY CROSS SECTIONS BI 🛆 BRIDGES & ASSOCIATED STRUCTURES 79 RETAINING WALLS AND MISC. STRUCTURES 38 36 ROADWAY LIGHTING & SURVEILLANCE TOTAL 38 6

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID INTERSTATE HIGHWAY

I INCH = 10 FEET HORIZONTAL

VOLUME NO. 3

F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)

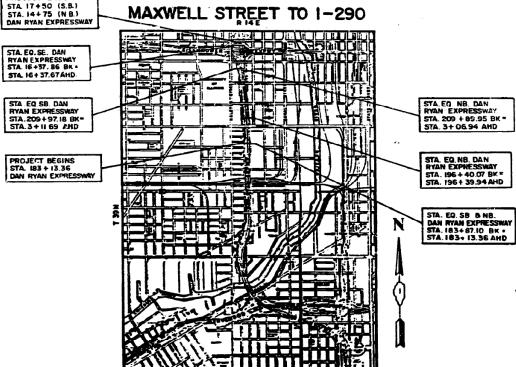
SECTION 1985 - 080 R

PROJECT

COOK COUNTY

C - 91 - 433 - 85

ROADWAY GRADING AND PAVING MAXWELL STREET TO 1-290



SHEET GI . OF 2

NET LENSTH . 4,122.32 LIN.FT. (0.78 MILES) GROSS LEWSTH . 4,122.52 LIN.FT. (0.78 MILES)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF MICHWAYS

LOCATION OF SECTION INDICATED TRUS: -

DEPARTMENT OF TRANSPORTATION

COURTY COOK SECTION -1985 - 080 A

CONTRACT NO.

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

80063

DESIGN DESIGNATION

DAN RYAN EXPRESSWAY (MAINLINE S.B. & N.B.) 163,700 (2000) TRUNK 118.41 (15° CR PCC - 20) COLLECTOR - DISTRIBUTOR (S.B. & N.B.) 28,100 (2000) COLLECTOR 21.63 (13° CR PCC - 20)

200TE I 90/94 (DAN RYAN EXPRESSWAY)

USER NAME	-	ali,issa	DESIGNED	-	JJS, WM	REVISED	-
			CHECKED	-	MAI, JMG	REVISED	-
PLOT SCALE	-	N.T.S	DRAWN	-	AMS	REVISED	-
PLOT DATE	-	1/23/2020	CHECKED	-	MAI, JMG	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** **EXISTING RECORD DRAWINGS** STRUCTURE NO. SB-14A SHEET NO. SS44 OF SS83 SHEETS

Re-115109-NC1 23 1987

F.A.I. RTE.	SEC	CTION		COUNTY	TOTAL SHEETS	SHE
/94/290				соок	1360	72
				CONTRACT	NO. 62	۹77
		ILLINOIS	FED. AI	D PROJECT		

COOK 79 i

90/94

N.B. ROOSEVELT RD./RUBLE ST S.B. ROOSEVELT RD./UNION AVE. N.B. TATURG T. ENTRANCE RAMP 19,300 (2000) AREA SERVICE (608 (12° PCC - 20) TAYLOR ST. MAINLINE EXIT 7,700 (2000) AREA SERVICE 467 (10° PCC - 20)

	CONTRACT.	(5)	100	e4.
90/94	•	COOK	79	2
9%.		****		
-			10.007	

INDEX OF SHEETS

			^ 01	JIILL 10		
SHEET NO.				SHEET NO.		
	61	TITLE SHEET CONTRACTOR		53	S 11	MEANING DETAILS
5	G3	INDEX OF SEESTS AND TOTAL BILL OF MATERIAL		54	s 12	100 7 · · · · · · · · · · · · · · · · · ·
				\$5	6 13	PIER 1
		TAYLOR STREET EXIT RAMP OWER S.B. COLLECTOR-DISTRIBUTOR		5%	S 14	PERR 2
3	EXIT 1	FLAN AND MINATION		ទា	# 15	MOR J
4	SELT 2	SUBSTRUCTURE LATOUT		98	Z 16	SPLICER BAR DETAILS
5	EXIT 3	DECK STRANGIOUS		59	8 17	MALL 6 II
6	BKIT 4	DOCK ELEVATIONS				•
7	EXXT 5	SUPERSTRUCTURE		•		SAST-SURTE MAP (CINCIPLE SO. 016-2453)
8	EXIT 6	STRUCTURAL STREET FRANCIS FLAN		€0	EF 1	GENERAL PLAN AND MEMOTION
9	EXIT 7	STRUCTURAL STRIL DETAILS		61	10F 2	CEMERAL BOTHS AND POURSETION DETAILS
10	EXIT 8	STRUCTURAL STREET DETAILS		62	ER 1	DRCK BENEFICE LOCKSTON PLAN
£1	EXIT 9	STRUCTURAL STEEL DETAILS		63	E# 4	DOCK DETAILS
æ	EX12 10	BEARINGS		64	79 S	PARAPET AND MISCELLAHROUS DECK DETAILS
13	EXIT 11	BENT NO. 2		45	120 6	TRANSPORT PEAR AND DETRIES
14	EXIT 12	REST NOS. 3 AND 4		46	12 7	STIME DETAILS
5	ELT LI	erminist bul etc. 9 and 18 - Play		67	22 8	BEARING BETAILS - I
14	EXIT 14	METALWING WALL NO. 9 - MINVESTOR .		48	= ,	SEASON DETAILS - II
ព	EXIT 15	BETAINTES WALL BO. 10 - MINAPION		69	33 30	ener as
18	EXT: 16	RETAINING WALL NOS. 9 AND 10 - ENCYTONS AND BILL OF MATE	RIAL	70	ES 11	FIER 27
19	EXIT 17	AMPRONT NO. 1		71	EE 12	PIRE 27 DETRILS
		-		72	12 13	FIRE 26
		•		75	33 14	ANITOMIT 29
		TAYLOR STREET ENTRANCE BANP OVER H.B. COLLECTOR-DISTRIES	TOR			MINCHELANGOR DETAILS - ALL STRUCTURES
20	EST 1	PLAN AND RESYMPTON		74	MD 1	ANCHOR BOLT BETAILS
21	EET 2	SUBSTRUCTURS LAYOUT		75	100 Z	MINOPARIE EXPLICATION JOINTS 21, 2-1/2", AND 4
22	EE 2	DECK ELEVASIONS	•	76	MD 3	PREFORMED JOINT CHAL 2-1/2" AND 4"
23	ERT 4	SUPERATEDETURE		77	MD 4	DOADINGS COUPEYS, STEEL
24	EST 5	STRUCTURAL STEEL PRANCIES PLAN		78	10 S	DEALDRE STEVEN, ALTERNATE - CAST INCH
25	EET 6	STRUCTURAL STREE DETAILS		79	HD 6	PERSONAL BALLING
26	12ET 7	STRUCTURAL STREET DETRIES		A		
27	MAT \$	STRUCTURAL STREET, SECONDS		<u> </u>	MOT	DECK DRAMAGE DETAILS AND SECTIONS
28	EMT 9	STRUCTURAL STREET PETALLS		② 775	MP 6	TYPICAL CAMBON DETAILS
29	ERT 10	STRUCTURAL STREE DETAILS		-		

ATOTAL BILL OF MATERIAL - S.B.

TTE		<u> </u>
STRUCTURE SUCARRELION	G. 10.	L296
PROTECTIVE COMP	80. TD.	634
CAS I CACAS	CS. 10.	676.9
CANS A CONCRETE MARKETINGIAM	CS. TD.	509.3
FORTIETIES AND EMECTICAL STREET	E. 8001	049
SEAD SHEAT COMMISSION (S)	EACE :	5,134
RETHROCCHIENT BASE	IM.	53,440
EXTRACTOR WIS (BOX COURS)	386.	144,590
THE FLEE	nica :	2
FORMISHING STREET PRIZES (SP 12 X 53)	LIB. FF.	3,038
THE PERS (ME 12 E 50)	ELCI.	4
MATVINE STREET, PILES	LIB. FT.	5,038
Criston strains 43.	Q. 77.	1,320
CAISSON SHAFTS 48"	G. 17.	855
CAISSON HELLS	G. 17.	1,207
Electric Marine Seminer Libe II	100 E	20 ,
PLOSTING MEASURE - (MIDE) EXPANSION - 400K	BACK .	6
PLONTING BEAGUING - FIXED - \$505	inca inca	1
PLANTING SERVICES - PURE - 1000K		1
PIPE Understall - 6" services	Lu. r.	349
CONTROL WILL BOARD	40. D.	275
Thirties arrested about, 4*	LD. Fr.	•
PRESCRIPT SOUTH SEAL, 2-1/2"	LIE, Fr.	25
Property States of the States	2062	3
State of the latest states	LIN FT.	₩
CONCRETE REMOVAL	CU 10	37.0
PROTECTIVE BUELD	80. YO.	88
ELASTOMERIC SEASING ASSESSALY TYPE 3	EACH	18
PEDESTRIAN RABING - 6 PT.	LIN. FT.	141

▲ TOTAL BILL OF MATERIAL - N.B.

SANGERON ENCHANGED	a. n.	3,202
CONCRETE MINERAL	CO. TD.	179.7
MINUTES OF EXTERIOR SUPERIOR SUPERIOR STRUCTURES - NO. 1	.L. SÚM	•
MINUTAL OF EXISTING SUPERSTRUCTURE-NO. 2	L SUM	
PROTECTIVE COAS	#Q. TD.	2,419
PROTESTIVE ARTERA	4Q. TD.	3,020
CYSS E CONCESS	G. D.	1,071.4
CASE I CONCRETE SUPERINGTONS	a. b.	240.0
PORTUGUES AND RESCRICT STREET, STREET,	1 SUN	0.57
SAMASE SCUPERS	EACH	
CONTROL CALIFORNIA STATEM	LIN. FT.	33
BITHERICAS CONCRETE SURFACE COURSE-CLASS !	TON	61
SPORT CHACK SEALING	LIM PT.	20
FORMED CONCRETE REPAIR (DEPTH & 1-1/2 ML)	99. PT.	■0
	i .	l .
ATTER STEERS CONTRACTORS	- 100	1
		12,636
Marchell Me (par care)	1	145,000
		21.310
ELECTRONIC MARKE ASSESS THE I		44
Particular of the State Control of the State Contro	20	
Plateria Californi, Marieria - 2002		
		1
Telegraphic College Minister - 1800	96	
Parties and Bridge - con		
Partie maries. (120 - 1012	-	1 :
Particular State (ID 1) 2 55)	LDL 77.	2.224
THE PILE (IN 12 E 53)	100	
DESTRUCTION OF THE PERSON	LEN. PP.	3.114
CATHERS SERVER 36".	G. 77.	4,931
CALEBOO MARTIN 46°	G. 77.	2,395
Calegor Milita	a. n.	2,949
WATERFYROOFING PROPERTANT SYSTEM	SQ YD.	676
EXPENSION BOLING, 3/4" STANSITED		367
Properties Indicate - 6.	LD. FT.	964
CONTROCTE WALL DOLLE	60. TD.	225
PIPE COMMISSION - 6° BEAUTIES	LIB. Ft.	444
SECTION EXPERIENCE JOINT 4°	LIN. FR.	•
PROFESSION SOLDS SOLDS 4*	LIN. FR.	100
PROFESSIONAL STATE 4"	Lie. Fr.	7/

ATOTAL BILL OF MATERIALS - S.B. (CONT.)

1300	YEST .	CITTHEND
PLANTED BOLLOW BOCK CONCIONS OFFICE	#Q. TD.	1,311
DIFFERENCE CONCLUSION SOURCE SHOWL	so. 10.	3.311
CONCRETE BASING BACK SCHAFFICHERON (3/8°)	ap. 13.	1,390
	LTD. FT.	825
DOCK STAD SHIPATO (PASTIAL)	80. 70.	60
DOIN GLAD BETALL (FOLL DEFIN, TIPE 1)	80. 10.	10
DEEDER STREETLE HEFAIR (DARFIAL DEFEN)	80. FT.	500
Delig Commit Marie (1922 19772)	50. FT.	60
PODGED CONCRETE RETUR (DEFTH > 1-1/2 ML)	SQ FT.	80
CPOSTY CRACK BEALMS	LIN PT.	86
PORMED CONCRETE . REPAR (DEPTH & 1-1/2 ML	50.72	\$30
CLEANING AND PARITING	L. 800	

P. -- - A .- 23 /997 (7

FIGURE STATE OF THE STATE OF TH

DEPARTMENT OF TRANSPORTATION

PAL BOUTE BOYA' (BAN STAM PRIME PRIMESBURY)

SETTON (SEE - 050 R — GOOK COUNTY

READWAY GRADES AND THE SETTON

BOUTE OF SECTTON

AND TOTAL BLL OF MATERIAL

STATE OF THE STATE

HBM ENGINEERING GROUP, LLC

EAR 3

USER NAME =	=	ali,issa	DESIGNED	-	JJS, WM	REVISED	-
			CHECKED	-	MAI, JMG	REVISED	-
PLOT SCALE =	=	N.T.S	DRAWN	-	AMS	REVISED	-
PLOT DATE =	-	1/23/2020	CHECKED	-	MAI, JMG	REVISED	-

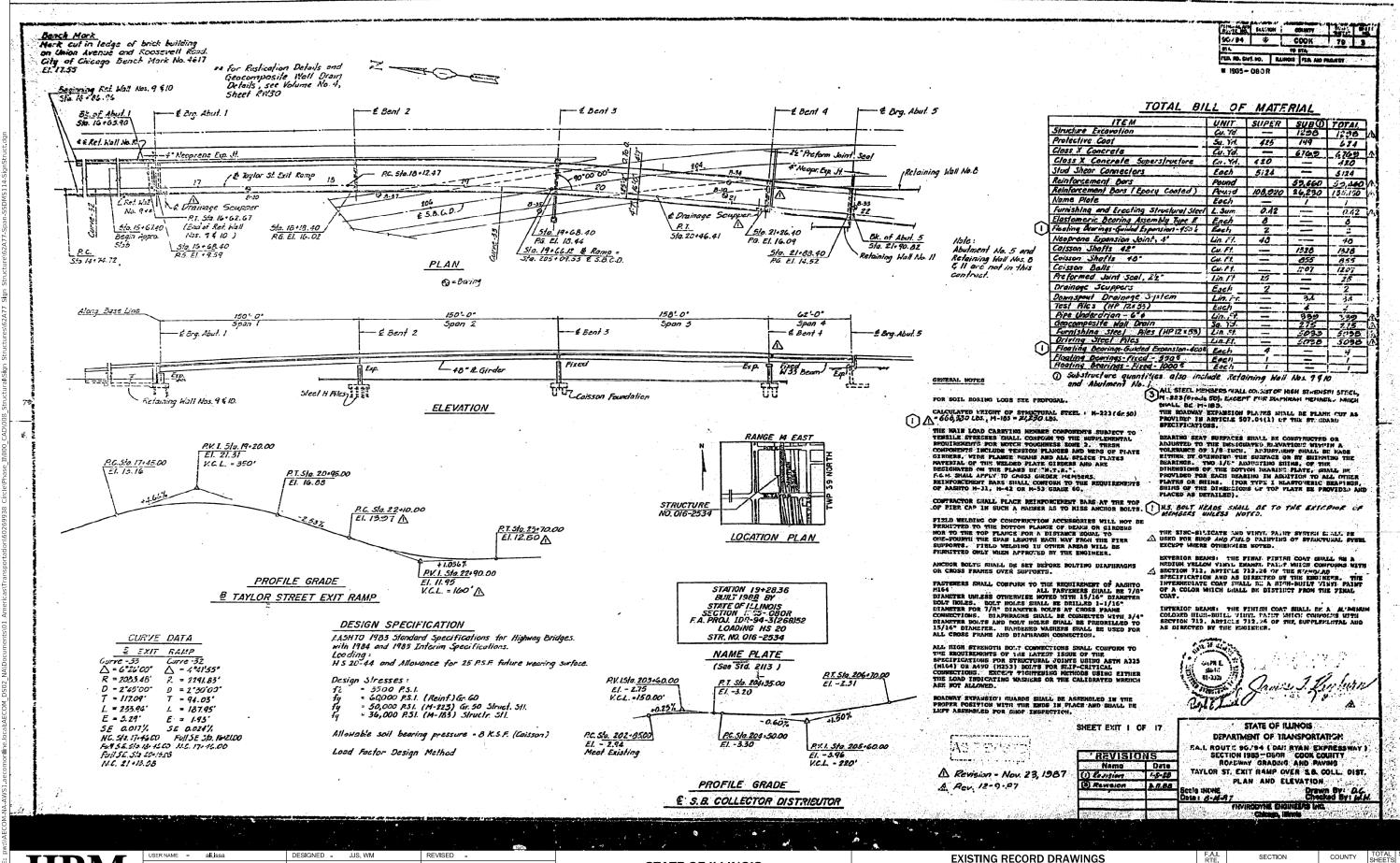
MARRISON STREET BRIDGE OVER S.B. DRE HTAS (STRUCTURE NO. 016-1087)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS
STRUCTURE NO. SB-14A

SHEET NO. SS45 OF SS83 SHEETS

			•		•		
RTE.	SEC	CTION		COUNTY	TOTAL SHEETS	SHE	
94/290				соок	1360	72	
				CONTRACT	NO. 62/	۹77	
	NUMBER SERVICES						



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

90/94/290

STRUCTURE NO. SB-14A

SHEET NO. SS46 OF SS83 SHEETS

COOK

CONTRACT NO. 62A77

1360 725

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CHECKED - MAI. JMG

CHECKED - MAI. JMG

AMS

DRAWN

N.T.S

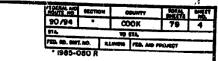
1/23/2020

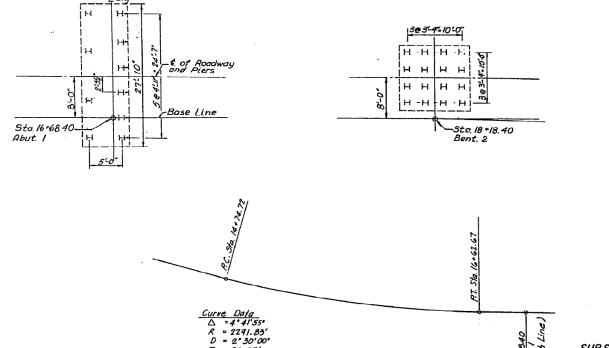
REVISED -

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REVISED -

__ FOR INFORMATION ONLY ____





LOCATION OF CONSTRUCTION AND EXPANSION JTS.

Station		Offset to	Type of Joints
¥ 14 + 86.96	(& Taylor St. Exit Ramp)	Bock of Wall	Beginning of Wa
15 + 16.86		4.66' 8.	Expansion
3 15+45.50		3.75' Rt.	Construction
8 15 + 74.18	,	3.20' Rt.	Construction
\$ 16 + 02.75	•	3.00' Rt.	Expansion
16 + 32.71	•	3.00' Rf.	Construction
€ 16 + 62.67	•	3.00' Rf.	Expansion
٠.			·
\$ 14+86.96	(& Taylor St. Exit Ramp)	19.00 ° Lf.	Beginning of Wall
\$ 15 - 16.86		19.00' Lf.	Expansion
\$ 15+45.50	•	19.00' Lt.	Construction
9 15 + 74.18		19.00' Lt.	Construction
£ 16+02.75		19.00° Lt.	Expansion
\$ 16 +32.71		19.00' Lt.	Construction
€ 16 +62.67	ø	19.00' Lt.	Expansion

Base Line?

Base Line?

Base Line?

Curve Data:

A - 6°26'00"

R = 2083.48'

D = 2°45'00"

T - 113.94'

E - 3.29'

BASE LINE GEOMETRY

Note:
All Abutments and Bents
are normal to Base Line.

SUBSTRUCTURE LAYOUT

SHEET EXIT 2 OF 17

REVISIONS
Name Date
(4) Revision 4-53-65
December 1

STATE OF ELLINOIS
DEPARTMENT OF TRANSPORTATION

FAIL ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1965-080R COOK COUNTY
ROADWAY GRADING AND PAYING
TAYLOR ST. EXIT RAMP OVER S.B. COLL, DIST,
SUBSTRICTURE LAYOUT

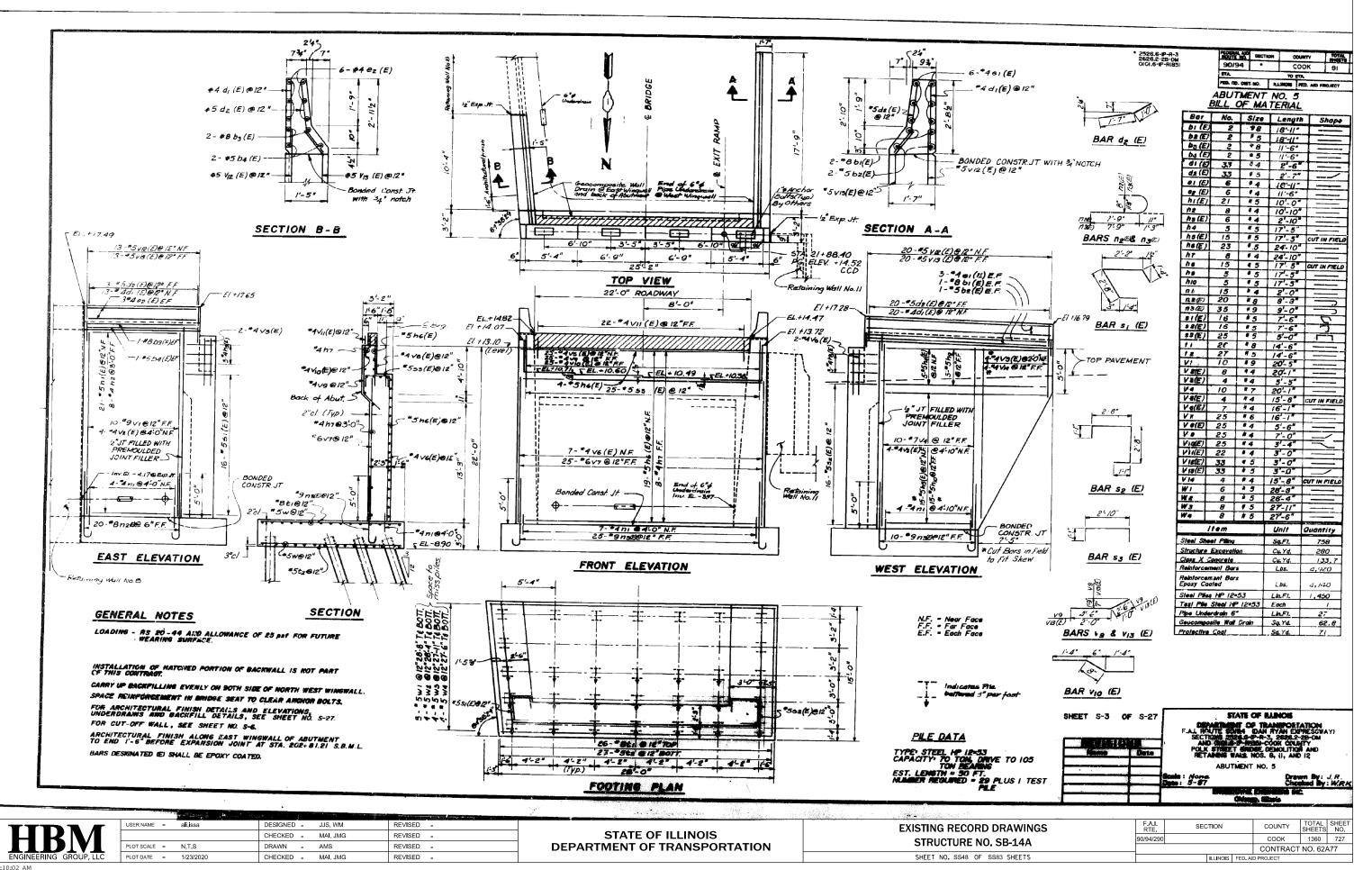
e :NOME = : 0 - 14 - 07 ENVIRODYNE ENGINEER

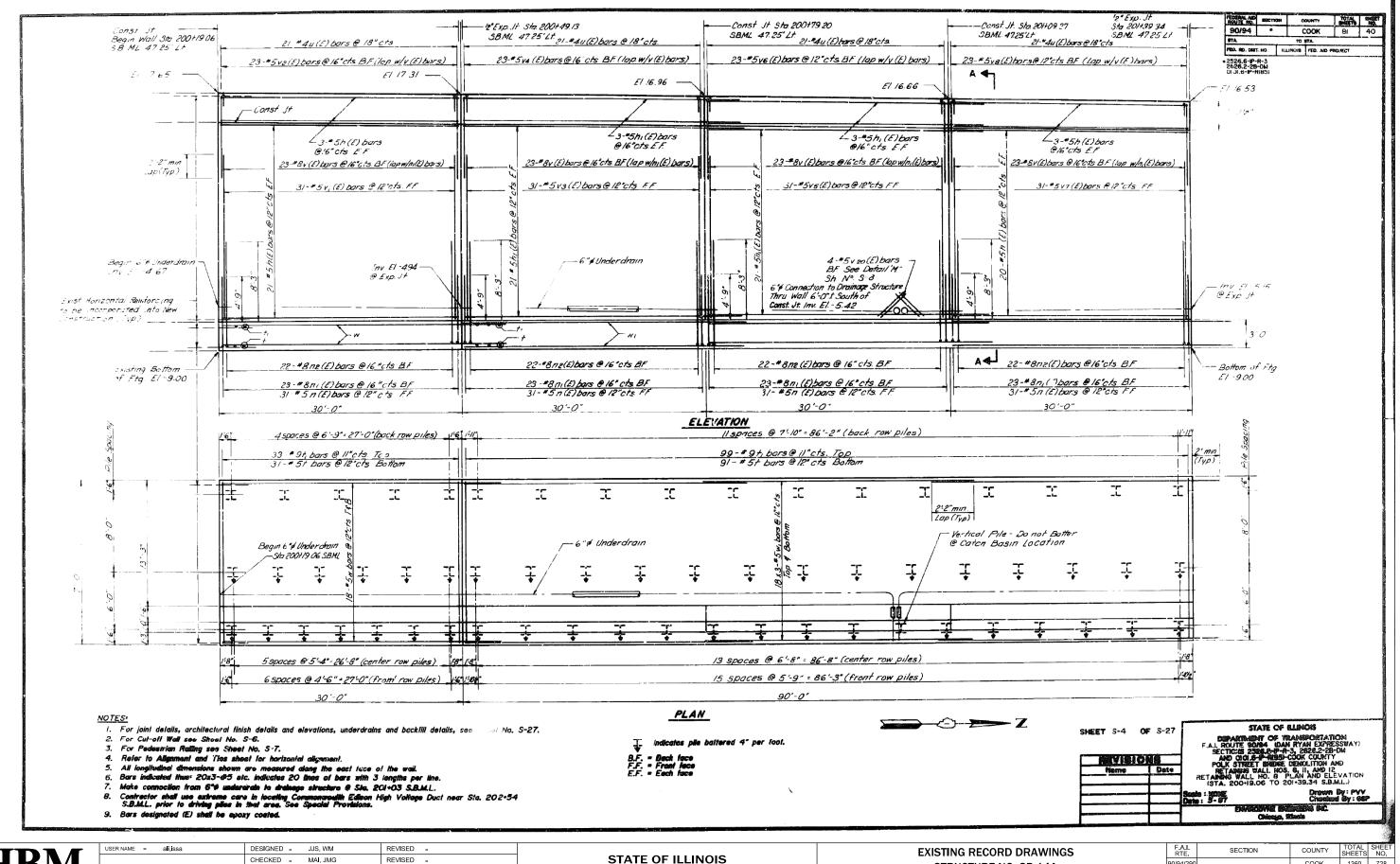
HBM ENGINEERING GROUP, LLC

1 4	4 :	M 2						
USER NAME	-	ali,issa	DESIGNED	-	JJS, WM	REVISED	-	
			CHECKED	-	MAI, JMG	REVISED	-	
PLOT SCALE	-	N.T.S	DRAWN	-	AMS	REVISED	-	
PLOT DATE	-	1/23/2020	CHECKED	-	MAI, JMG	REVISED	-	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION EXISTING RECORD DRAWINGS
STRUCTURE NO. SB-14A

SHEET NO. SS47 OF SS83 SHEETS

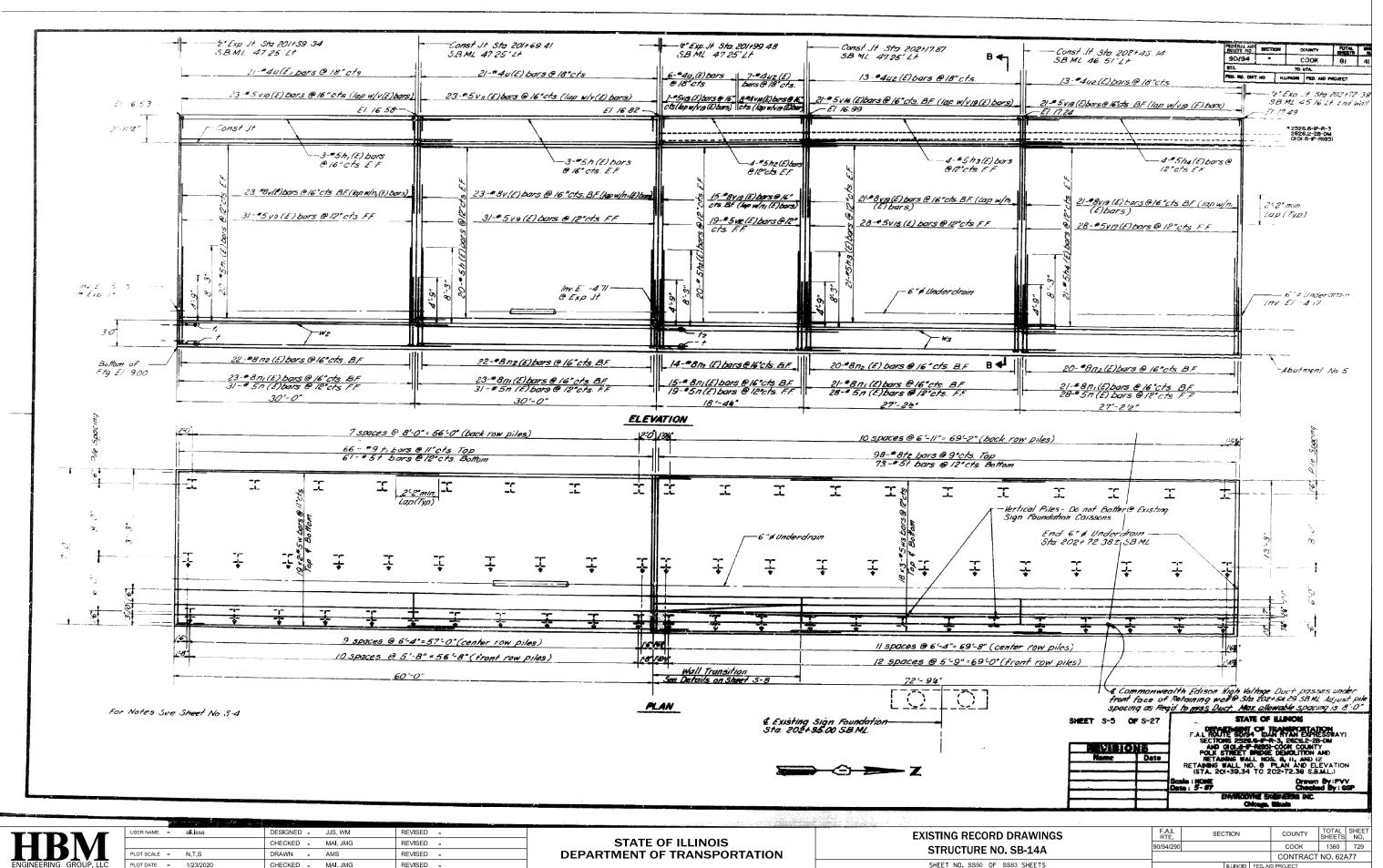




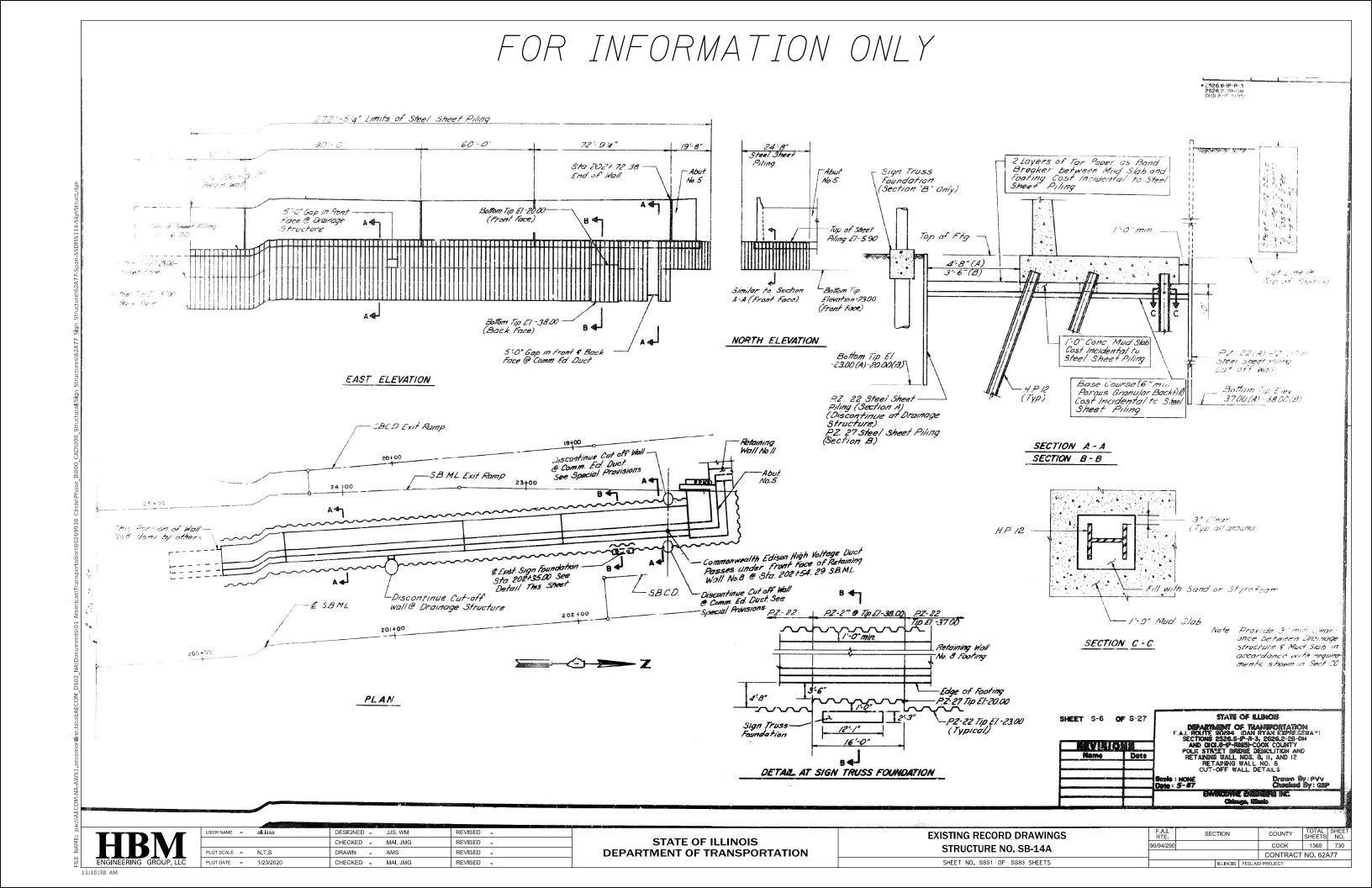
REVISED -PLOT DATE = 1/23/2020 CHECKED - MAI. JMG REVISED -

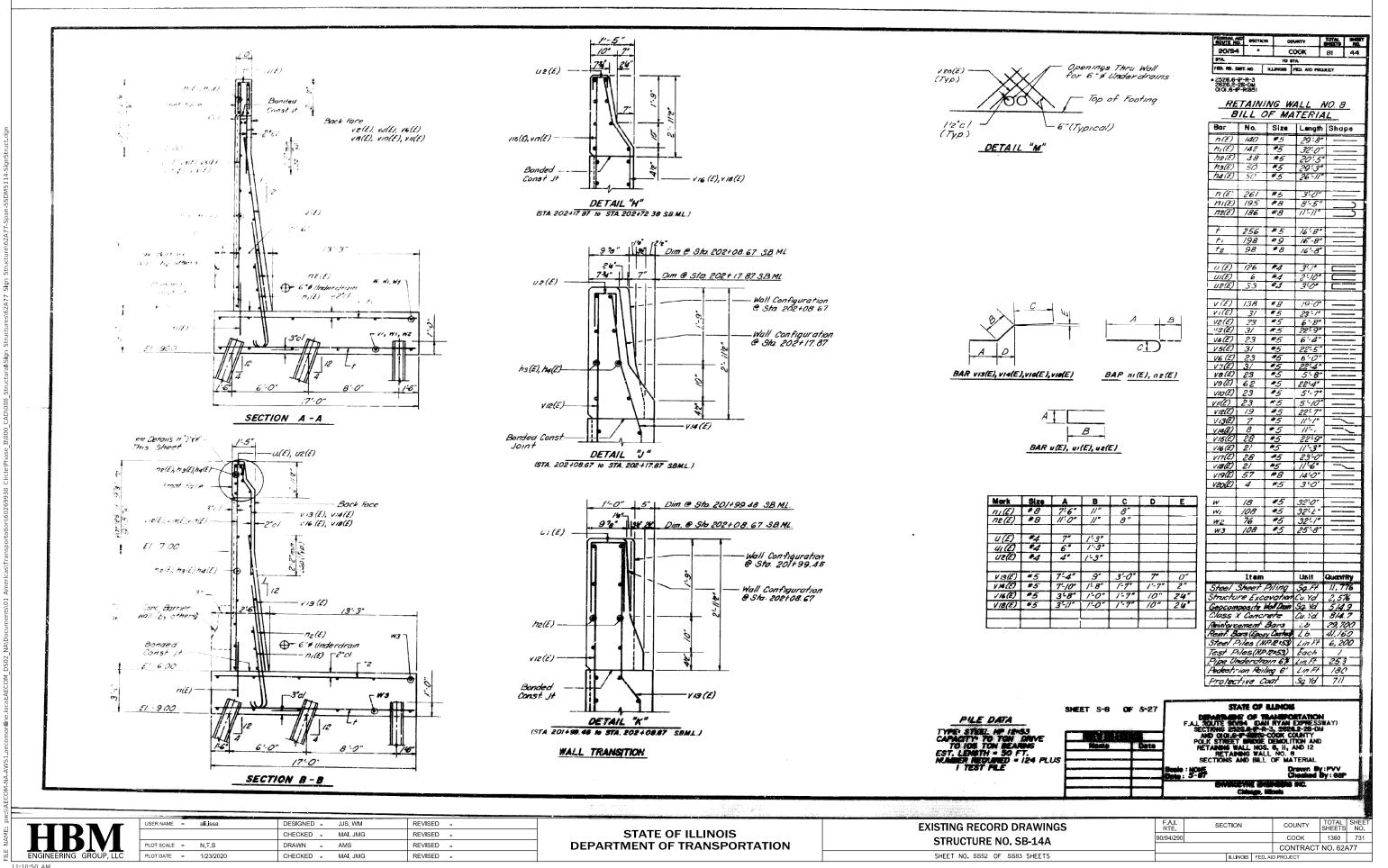
DEPARTMENT OF TRANSPORTATION

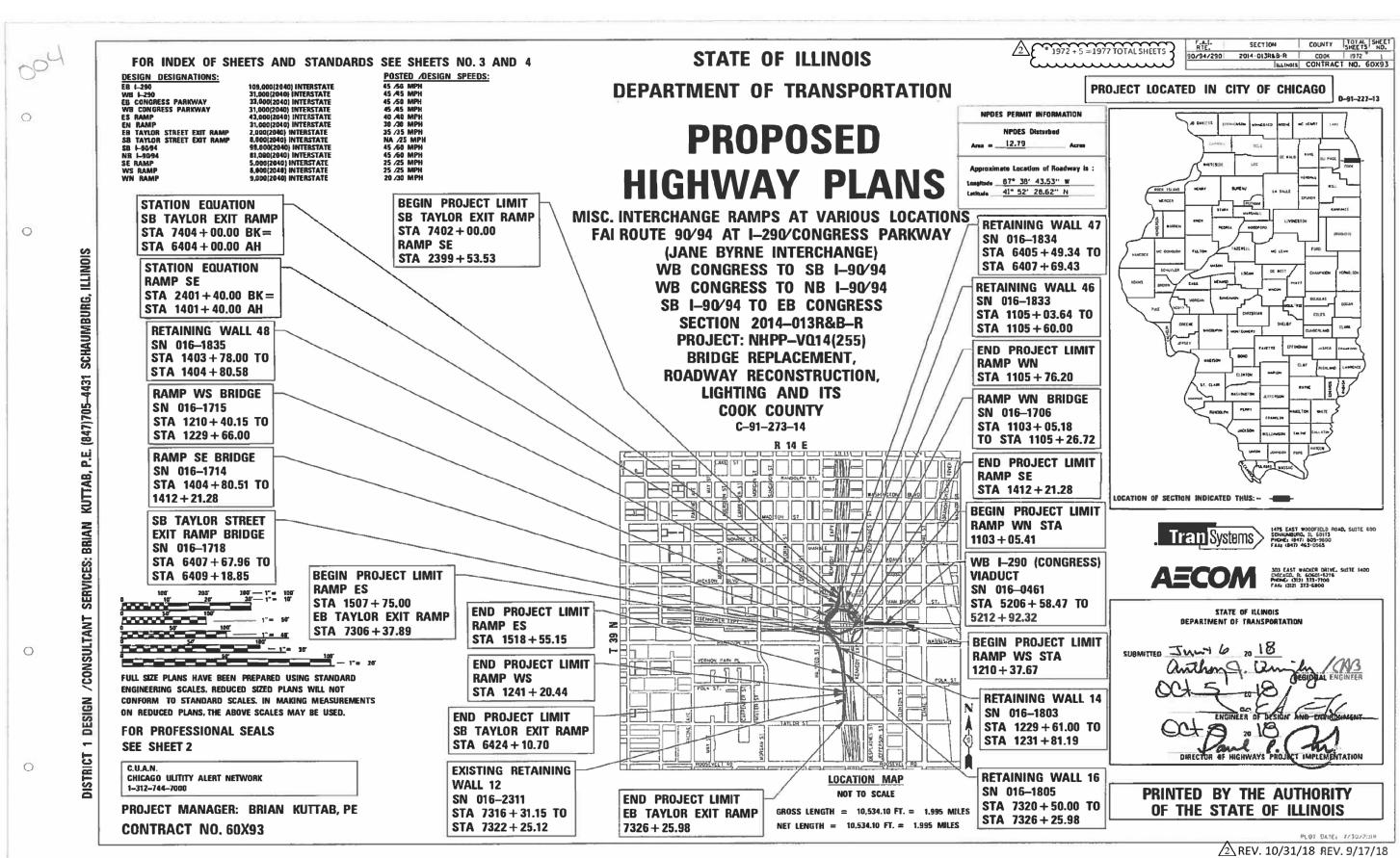
STRUCTURE NO. SB-14A SHEET NO. SS49 OF SS83 SHEETS 90/94/290 COOK 1360 728 CONTRACT NO. 62A77



11:10:26 AM







ENGINEERING GROUP, LLC

 USER NAME
 =
 ali issa
 DESIGNED
 JJS, WM
 REVISED

 CHECKED
 MAI, JMG
 REVISED

 PLOT SCALE
 =
 N.T.S
 DRAWN
 AMS
 REVISED

 PLOT DATE
 =
 1/23/2020
 CHECKED
 MAI, JMG
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION EXISTING RECORD DRAWINGS STRUCTURE NO. SB-14A

1	COVER SHEET	270, 200	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN -
2	PROFESSIONAL SEALS	279 288	I-90/94 MAINLINE STAGE 5
3	INDEX OF DRAWINGS HICHWAY STANDARDS, IDOT DISTRICT 1 STANDARDS AND IDOT TRAFFIC	289-296	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - I-290 MAINLINE STAGE 5 $$
5	SYSTEMS CENTER STANDARDS GENERAL NOTES	297-306	SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - I-90/94 MAINLINE STAGE 6
6	CITY OF CHICAGO GENERAL NOTES AND COMMITMENTS		SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN -
7 35	SUMMARY OF QUANTITIES	307-314	1-290 MAINLINE STAGE 6
36-53	TYPICAL SECTIONS	315-316	SUCCESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - UIC ACCESS ROAD STAGE 1
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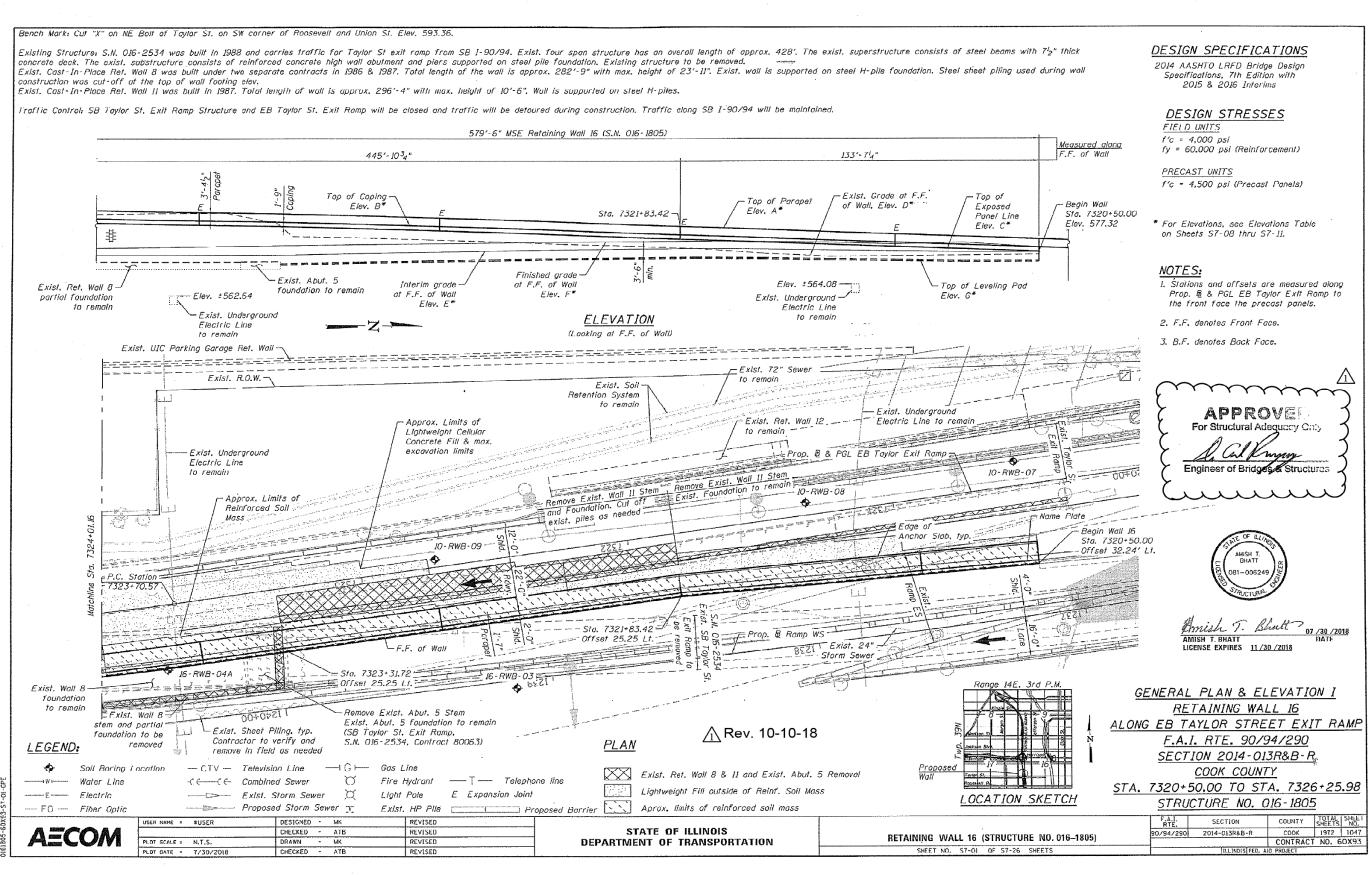
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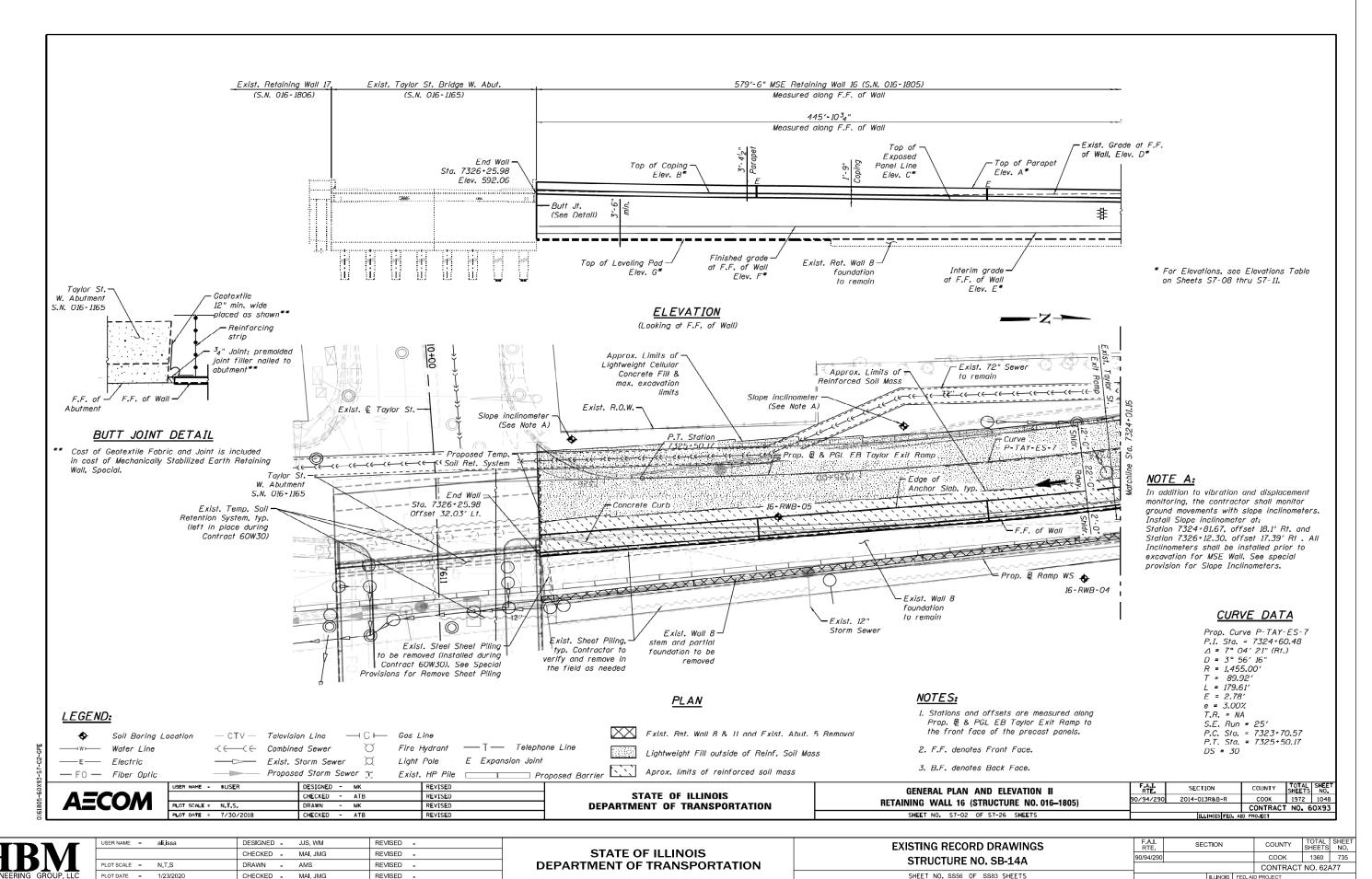
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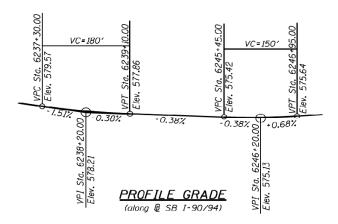
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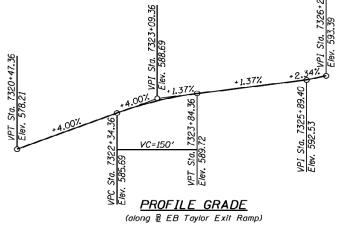
GENERAL NOTES

- 1. Stations and offsets for the wall are given from the DEEB Taylor St. Exit Ramp to the front face of the precast panels.
- 2. MSE Wall length measured along front face of the precast panels.
- 3. Reinforcement bars designated (E) shall be epoxy coated.
- 4. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths per line.
- 5. Protective coat shall be applied to the designated surfaces of the Parapet and Anchor Slab.
- 6. Slip forming of the parapets is not allowed.
- 7. Plan dimensions and details relative to existing plans are subjected 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 materials. Such variations shall not be cause for additional compensation for a change in scope of work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- 8. Lightweight Cellular Concrete Fill shall be Class III (District I), see Special Provisions.
- 9. MSE Wall supplier shall design the MSE Wall using granular reinforced mass with minimum effective internal friction angle of 34 degrees and unit weight of 120 lbs./cu. ft. For embankment behind granular reinforced mass, an embankment unit weight of 120 lbs./cu. ft and an effective friction angle of 30 degrees shall be used in the wall system design.
- 10. Quantity for Lightweight Cellular Concrete Fill includes MSE Reinforced Soil Mass and fill area behind reinforced soil mass as shown in the cross sections; Type is specified as Class III (District 1), See Special Provisions.
- 11. See Special Provision for Mechanically Stabilized Earth Retaining Wall, Special for design and construction requirements.
- 12. MSE Supplier to design load transfer systems to accommodate drainage structures. For drainage structure location, type and size, see Drainage Sheets.
- 13. The Contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge and other load applied to the structures will not have detrimental effects on the adjacent building foundations, utilities and retaining wall foundations. See Contract Special Provision for details.
- 14. The Contractor shall field verify location of existing utilities prior to construction. The Contractor shall take precautions not to damage existing utilities. Any such damage shall be repaired by the Contractor at no additional cost.
- 15. The contractor shall provide vibration and displacement monitoring at the locations specified in the Special Provision for Construction Vibration Monitoring and Monitoring Adjacent Structures, to ensure that removal/construction activities in the vicinity of the structures do not have detrimental effects on building foundations. No additional compensation shall be provided to the Contractor for alternative means and methods, or additional precautionary measures, required during removal/construction activities to satisfy these requirements. See Contract Special Provisions for details.
- 16. Earth Excavation beyond the limits of Structure Excavation shall be sloped as shown in the cross-sections. For Earth Excavation quantity see Civil sheets.
- 17. Concrete for Anchor Slab and Parapet shall be paid for as Concrete Superstructure.

TOTAL BILL OF MATERIAL

Description	Unit	Total
Structure Excavation	Cu Yd	3695
Removal of Existing Structures No. 3	Each	1
Removal of Existing Structures No. 4	Each	1
Removal of Existing Structures No. 5	Each	1
Concrete Superstructure	Cu Yd	<i>338</i>
Protective Coat	Sq Yd	771
Bridge Deck Grooving (Longitudinal)	Sq Yd	387
Reinforcement Bars, Epoxy Coated	Pound	49350
Mechanically Stabilized Earth Retaining Wall. Special	Sq Ft	7432
Lightweight Cellular Concrete Fill	Cu Yd	56 <i>18</i>
Temporary Soil Retention System	Sq Ff	502
Name Plates	Each	1
Remove Sheet Piling	LSum	1
Protective Shield	Sq Yd	1686
Slope inclinometer	Each	2





STATION 7320+50.00 TO 7326+25.98

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F.A.I. RTE. 90/94/290 - SECTION 2014-013R&B-R

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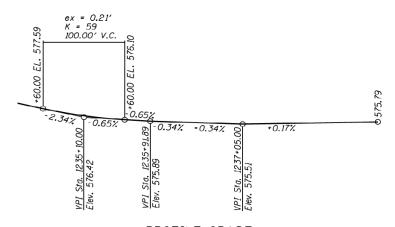
STRUCTURE NO. 016-1805

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	Architectural Details I				
S7- 18	Architectural Details II				
0. 10					

SUGGESTED SEQUENCE OF CONSTRUCTION

- Locate existing utilities that are to remain. Contractor to coordinate any required improvements to or removals of existing utilities with utility owner(s).
- Excavate for proposed MSE wall and remove Existing Wall 11 Stem and partially remove Foundation, as shown on removal sheets.
- 3. Remove existing SB Taylor St. Exit Ramp (S.N. 016-2534) and existing Abutment 5 Stem as shown.
- Install proposed Soil Retention System along North side of W. Abut. of Taylor Street Bridge (S.N. 016-1165) and remove Existing Soil Retention System installed during Contract 60W30.
- $\hbox{5.} \quad \textit{Excavate for proposed MSE wall and remove Existing Wall 8 stem as shown on removal sheets.}$
- 6. Construct proposed Retaining Wall 16, S.N. 016-1805.
- . Place lightweight cellular concrete fill.
- 8. Install Anchor Slab, Parapet and Roadway pavement.
- 9. Finish interim grading in front of the wall.
- 10. No portions of the wall shall be compromised by excavation for other elements of work. If the sequencing of work requires that the wall construction is staged, the stage line shall be located at a panel edge with any exposed lightweight fill protected from damage.



PROFILE GRADE
(alona B Ramp WS)

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GENERAL	NOTES, TOTA	L BILL	OF N	VIATERI/	ALS AND	INDEX	OF SHEETS
	RETAINING	WALL	16 (S	TRUCTU	JRE NO. 0	16–1805)
	SHEET	NO. S	7-03	OF S7-26	SHEETS		

rs	RTE.	SECTION	COUNTY	SHEETS	NO.			
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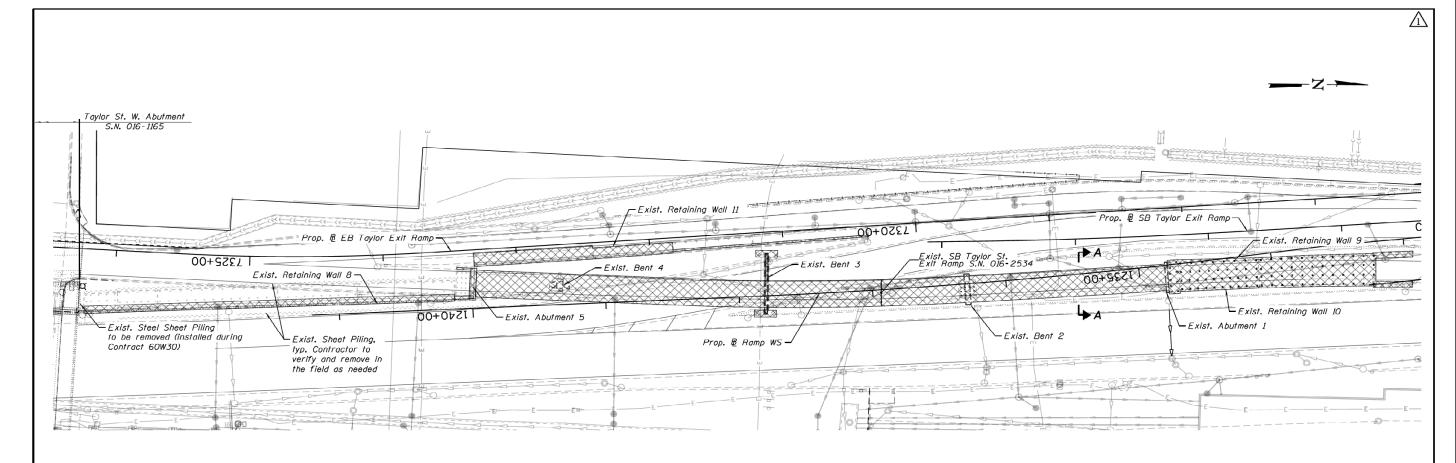
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EXISTING RECORD DRAWINGS STRUCTURE NO. SB-14A						
SHEET NO. SS57 OF SS83 SHEETS						

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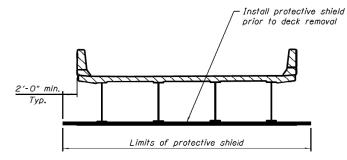
NOTES:

- 1. See Sheets S7-05 to S7-07 for additional existing structure removal details.
- 2. Removal of the existing SB I-90/94 to Taylor Street Exist Ramp structure (S.N. 016-2534) and the existing North approach Retaining Wall 9 and 10 shall be per Special Provision for the See Removal of Existing Structures No. 3. See Table I for Minimum Removal Elevation at each substructure unit of existing Taylor Street Exit Ramp structure (S.N. 016-2534). See Sheet S7-05 for existing Abutment 5 removal details.
- See Removal of Existing Structures No. 4 Special Provisions for the removal of the existing Retaining Wall 8 along SB I-90/94.
- 4. See Removal of Existing Structures No. 5 Special Provisions for the removal of the existing Retaining Wall II along East side of SB I-90/94 to Taylor Street Exit Ramp
- The Contractor shall install protective shelld system to protect travelling public from falling objects during the removal of existing S.N. 016-2534 (SB Taylor Street Exit Ramp). See Section A-A for the limits of Protective Shield.
- See Remove Sheet Piling Special Provisions for the removal of the existing Steel Sheet Piling at North end of the West Abutment of Taylor Street Bridge (S.N. 016-1165).
- 7. Sheet piling left in place during the construction of Existing Retaining Wall 8 may be in conflict with proposed wall construction. Contractor shall verify in the field and remove sheet piling that is in conflicts with proposed wall construction. Cost shall be included with the Removal of Existing Structures No. 5.

PLAN - EXISTING STRUCTURES REMOVAL

EXISTING STRUCTURES REMOVAL ELEVATION TABLE

Exist. Structure	Minimum Removal Elev.
Retaining Wall 9	Bottom of Footing
Retaining Wall 10	Bottom of Footing
Abutment 1	±573.94
Bent 2	±571 . 69
Bent 3 West Column	± 568 . 69
Bent 3 East Column	±568.69
Bent 4	± 568 . 19



SECTION A-A

Note: Approximate length of the existing structure that requires Protective Shield is ±520'-0".

LEGEND:

Exist. Structure Removal

—ıwı— Water Li

——E— Electric -(←—(← Combined Sewer

Exist. Storm Sewer

Proposed Storm Sewer

☐ Light Pole

SECTION

∀ Fire Hydrant

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EXIST	ING	STRU	CTUF	RES R	EMOVA	LI
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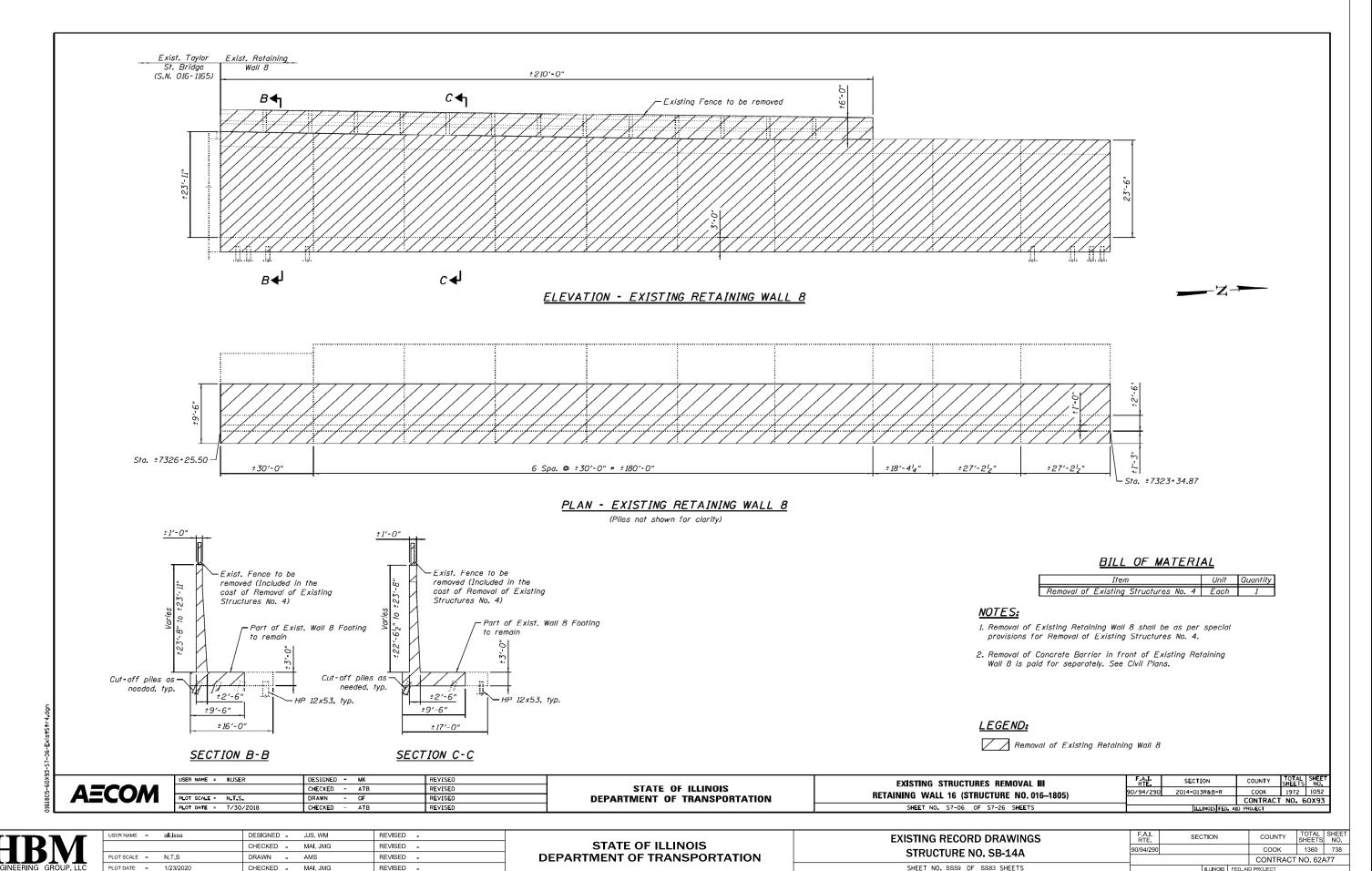
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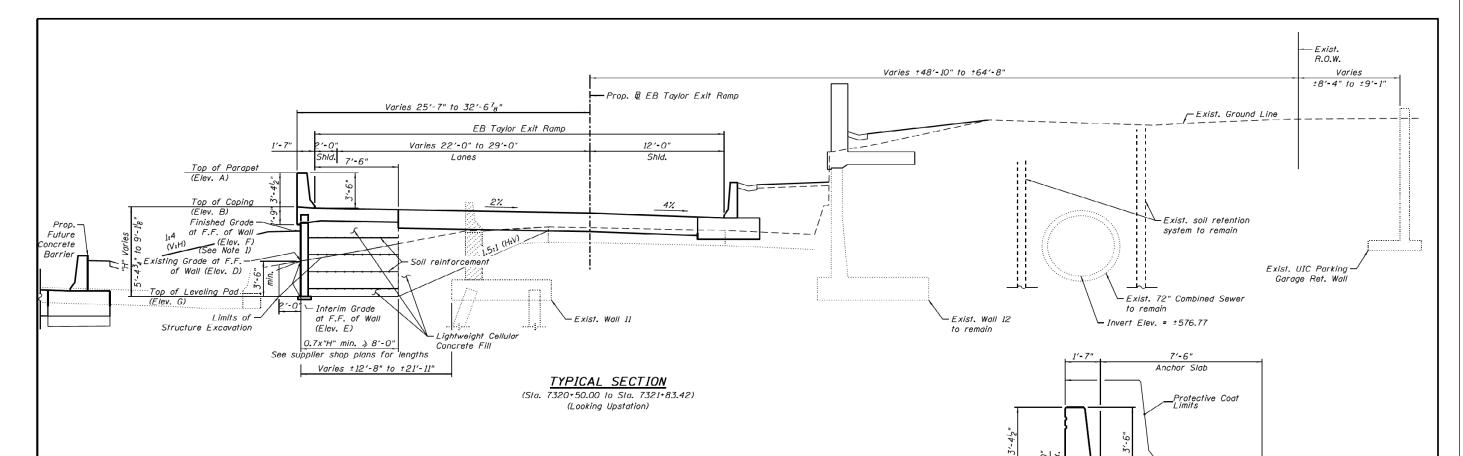
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SHEET NO. SS58	OF SS83 SHEETS

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ELEVATION TABLE

ı	Wall Type	Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E	Elevation F	Elevation G
	MSE	7320+50.00	32.24 Lt.	582.44	579.07	577.32	575.97	578.15	578.80	<i>573.67</i>
	MSE	7320+75.00	30.93 Lt.	583.41	580.04	<i>578.29</i>	575.74	577.68	<i>579.45</i>	<i>574.18</i>
	MSE	7321+00.00	29.62 Lt.	584.38	581.01	<i>579.26</i>	<i>575.55</i>	577.78	580.61	574.28
	MSE	7321+25.00	28.31 Lt.	<i>585.3</i> 6	<i>581.99</i>	580 . 24	575 . 41	578 . 18	<i>580.95</i>	<i>574.68</i>
I	MSE	7321+50.00	27.00 Lt.	<i>586.33</i>	<i>582.96</i>	581.21	<i>577.25</i>	<i>578.59</i>	<i>581.26</i>	575.09
	MSE	7321+75.00	25.69 Lt.	587.30	583.93	582.18	<i>578.63</i>	578.82	581.61	<i>575.32</i>
ı	MSE	7321+83.42	25.25 Lt.	587.64	584.27	582.52	578 . 90	578.67	581 . 49	<i>575.17</i>

Elevation A - Top of Parapet

Elevation B - Top of Coping

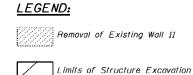
Elevation C - Top of Exposed Panel Line Elevation D - Existing Grade at F.F. of Wall Elevation E - Interim Grade at F.F. of Wall Elevation F - Finished Grade at F.F. of Wall

Elevation F - Finished Grade at F.F. C Elevation G - Top of Leveling Pad

NOTES:

- Earth Excavation beyond the limits of Structure Excavation shall be sloped as shown in the cross-sections. For Earth Excavation quantity see Civil sheets.
- MSE reinforced soil mass and area behind reinforced soil mass, as shown in the cross-section, shall be backfilled with Lightweight Cellular Concrete Fill.

SECTION THRU PARAPET AND ANCHORAGE SLAB (Looking Upstation)



Soil reinforcement*

*The MSE wall supplier's internal stability design shall

account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of

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RE	TAINING	WALL	16 (S	TRU	CTURE	NO. 016-1805)	
	SHE	ET NO.	S7 - 08	OF	S7-26	SHEETS	

Top of Exposed 4

(Elev. C) I_{Z}^{l} deep reveal, typ.

Precast Panels

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
90/94/290	2014-013R&B-R	соок	1972	1054			
CONTRACT NO. 60X93							
ILLINOIS FED. AID PROJECT							

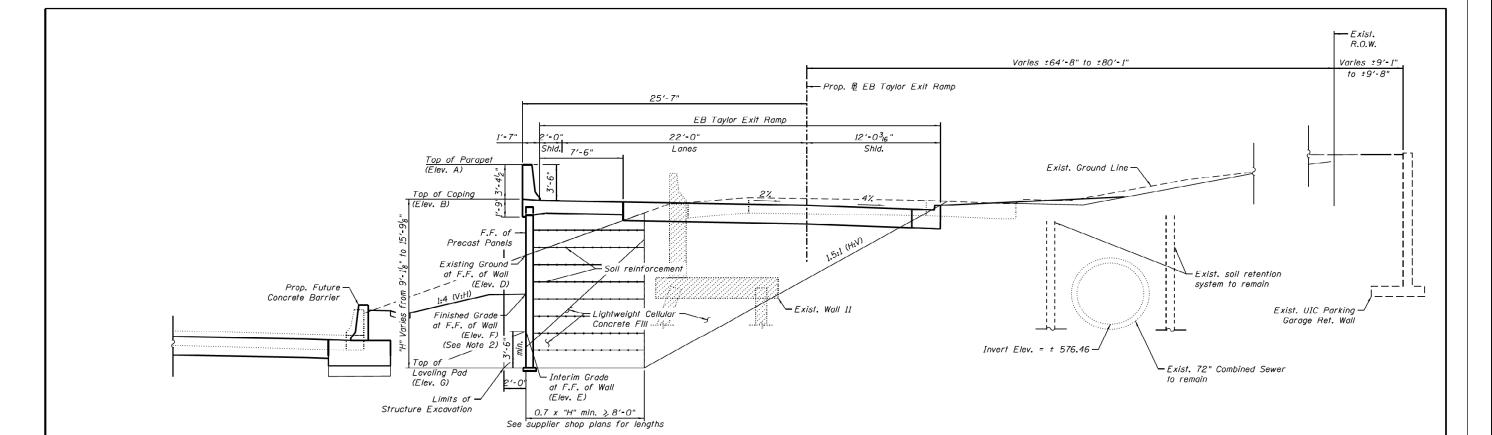
HBM ENGINEERING GROUP, LLC

USER NAME = ali.issa	DESIGNED - JJS, WM	REVISED -
	CHECKED - MAI, JMG	REVISED -
PLOT SCALE = N.T.S	DRAWN - AMS	REVISED -
PLOT DATE = 1/23/2020	CHECKED - MAI, JMG	REVISED -
	DRAWN - AMS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RECORD DRAWINGS STRUCTURE NO. SB-14A	
SHEET NO. SS60 OF SS83 SHEETS	

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TYPICAL SECTION (Sta. 7321+83.42 to Sta. 7323+11.00) (Looking Upstation)

ELEVATION TABLE

Wall Type	Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E	Elevation F	Elevation G
MSE	7321+83.42	25.25 Lt.	587.64	584.27	582.52	578 . 90	578 . 67	581.49	<i>575.17</i>
MSE	7322+00.00	25.25 Lt.	588.30	584.93	583 . 18	<i>579.35</i>	578 . 64	581 . 31	575 . 14
MSE	7322+25.00	25.25 Lt.	589.30	585.93	584.18	581.98	578.25	580.99	574.75
MSE	7322+50.00	25.25 Lt.	590.27	586.90	585.15	579.87	577.83	580.66	<i>574.33</i>
MSE	7322+75.00	25.25 Lt.	591 . 15	587.78	586.03	580.49	<i>578.03</i>	580.34	573 . 94
MSE	7323+00.00	25.25 Lt.	591.92	<i>588.55</i>	586.80	581 . 77	578.22	<i>579.99</i>	573 . 39
MSE	7323+11.00	25.25 Lt.	592.22	588 . 85	587 . 10	585.30	<i>578.30</i>	579 . 92	57 3. 08

Elevation A - Top of Parapet

Elevation B - Top of Coping
Elevation C - Top of Exposed Panel Line

Elevation D - Existing Grade at F.F. of Wall Elevation E - Interim Grade at F.F. of Wall Elevation F - Finished Grade at F.F. of Wall

LEGEND:

Removal of Existing Wall 11

Limits of Structure Excavation

NOTES:

- For Section thru Parapet and Anchorage Slab, see Sheet S7-08
- Earth Excavation beyond the limits of Structure Excavation shall be sloped as shown in the cross-sections. For Earth Excavation quantity see Civil sheets.
- 3. MSE reinforced soil mass and area behind reinforced soil mass, as shown in the cross-section, shall be backfilled with Lightweight Cellular Concrete Fill.

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USER NAME = \$USER	DESIGNED - MK	REVISED
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - CF	REVISED
PLOT DATE = 7/30/2018	CHECKED - ATB	REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

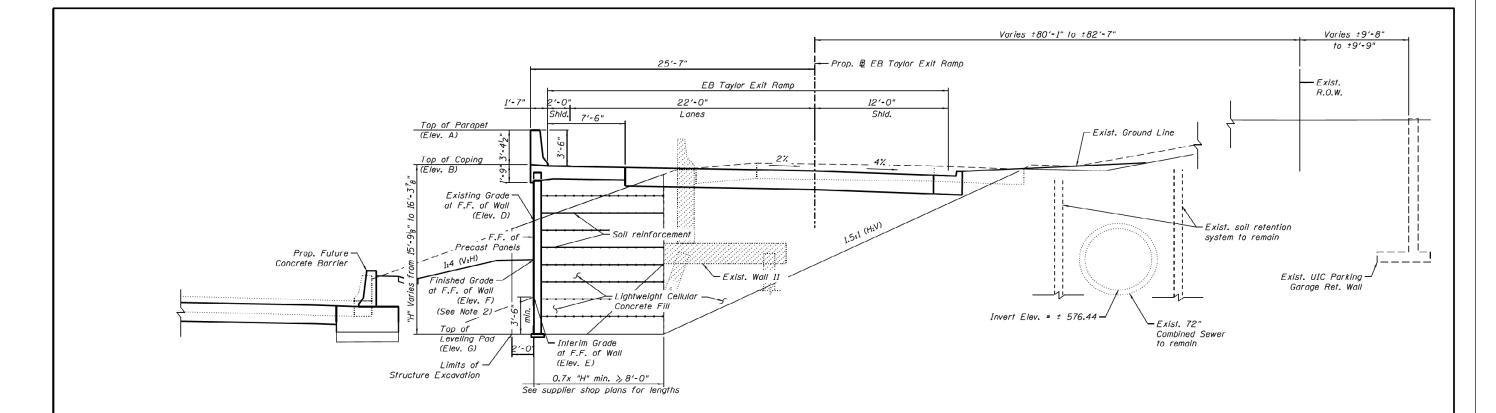
TYPICAL SECTION II RETAINING WALL 16 (STRUCTURE NO. 016-1805) SHEET NO. S7-09 OF S7-26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-013R&B-R	COOK	1972	1055
		CONTRACT	NO. 6	OX93
	ILLINOIS FED. A	D PROJECT		

USER NAME =	ali issa	DESIGNED -	JJS, WM	REVISED -
		CHECKED -	MAI, JMG	REVISED -
PLOT SCALE =	N.T.S	DRAWN -	AMS	REVISED -
PLOT DATE =	1/23/2020	CHECKED -	MAI, JMG	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** **EXISTING RECORD DRAWINGS** STRUCTURE NO. SB-14A SHEET NO. SS61 OF SS83 SHEETS

COUNTY 90/94/290 COOK 1360 740 CONTRACT NO. 62A77



TYPICAL SECTION (Sta. 7323+11.00 to Sta. 7323+31.72) (Looking Upstation)

ELEVATION TABLE

Wall Type	Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E	Elevation F	Elevation G
MSE	7323+11.00	25.25 Lt.	592.22	588 . 85	587.10	585.30	578 . 30	579 . 92	573.08
MSE	7323+25.00	25.25 Lt.	592.57	589.20	<i>587.45</i>	587.72	578.41	579 . 58	572.87
MSE	7323+31.72	25.25 Lt.	592.73	589.36	587.61	588.30	<i>578.46</i>	<i>579.55</i>	<i>573.31</i>

Elevation A - Top of Parapet

Elevation B - Top of Coping
Elevation C - Top of Exposed Panel Line

Elevation D - Existing Grade at F.F. of Wall Elevation E - Interim Grade at F.F. of Wall Elevation F - Finished Grade at F.F. of Wall

Elevation G - Top of Leveling Pad

LEGEND:

Removal of Existing Wall 11

Limits of Structure Excavation

- For Section thru Parapet and Anchorage Slab, see Sheet S7-08.
- 2. Earth Excavation beyond the limits of Structure Excavation shall be sloped as shown in the cross-sections. For Earth Excavation quantity see Civil sheets.
- MSE reinforced soil mass and area behind reinforced soil mass, as shown in the cross-section, shall be backfilled with Lightweight Cellular Concrete Fill.

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	CHECKED - ATB	REVISED
PLOT SCALE - N.T.S.	DRAWN - GF	REVISED
PLOT DATE = 7/30/2018	CHECKED - ATB	REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTION III							
ı	RETAINING	WALL	16 (S	TRUCTU	RE NO. 016–1805)		
	SHE	ET NO.	S7-10	OF S7-2	6 SMEETS		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
90/94/290	2014-013R&B-R	COOK	1972	1056		
		CONTRACT	NO. 6	OX93		
ILLINOIS FED. AID PROJECT						

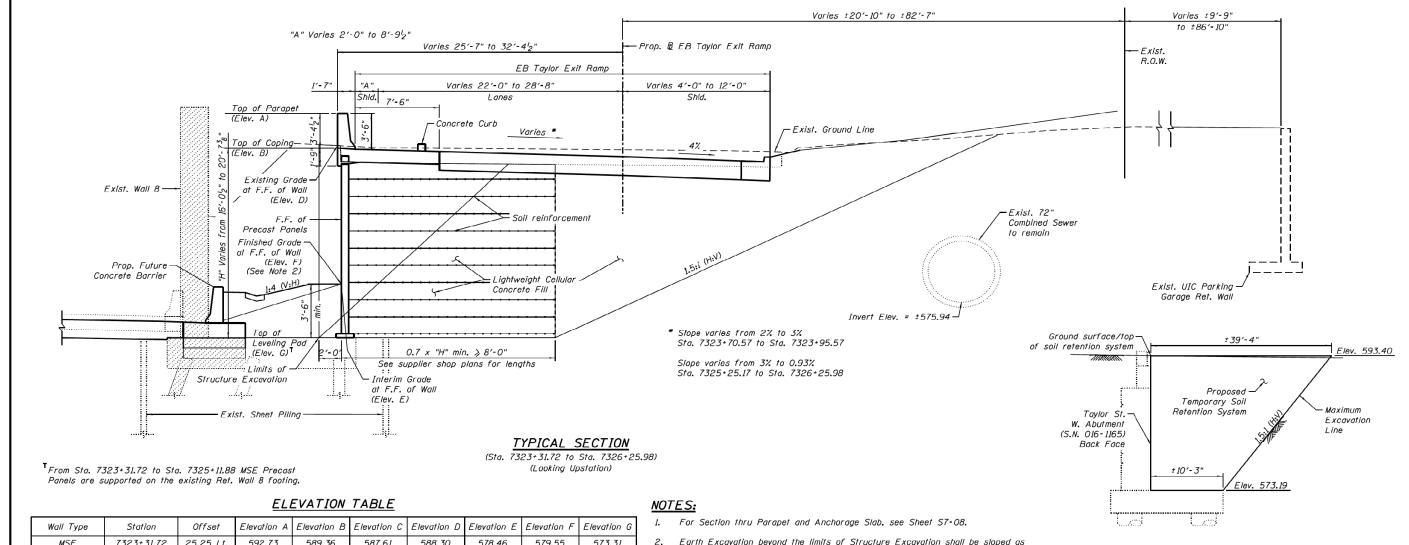
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USER NAME =	ali issa	DESIGNED -	JJS, WM	REVISED -
		CHECKED -	MAI, JMG	REVISED -
PLOT SCALE =	N.T.S	DRAWN -	AMS	REVISED -
PLOT DATE =	1/23/2020	CHECKED -	MAI, JMG	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

EXISTING RECORD DRAWINGS									
STRUCTURE NO. SB-14A									
SHEET NO. SS62 OF SS83 SHEETS									

COUNTY 90/94/290 COOK 1360 741 CONTRACT NO. 62A77



Wall Type	Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E	Elevation F	Elevation G
MSE	7323+31.72	25.25 Lt.	592.73	589.36	587.61	588.30	578.46	579.55	573.31
MSE	7323+50.00	25.25 Lt.	593 . 12	589.75	588.00	594.09	<i>578.05</i>	579 . 18	<i>573.19</i>
MSE	7323+75.00	25.25 Lt.	593.61	590 . 24	588 . 49	592.94	577 . 48	578 . 79	<i>573.19</i>
MSE	7324+00.00	25.25 Lt.	<i>594.1</i> 5	590.78	589.03	592.54	577.01	<i>578.45</i>	<i>573.1</i> 9
MSE	7324+25.00	25.25 Lt.	594.50	591 . 13	589.38	592.90	<i>576.73</i>	<i>578.24</i>	<i>573.19</i>
MSE	7324+50.00	25.25 Lt.	594.84	591 .4 7	589.72	592.23	<i>576.60</i>	578 . 11	<i>573.19</i>
MSE	7324+75.00	25.27 Lt.	595 . 18	591 . 81	590.06	592.03	<i>576.66</i>	<i>578.10</i>	<i>573.19</i>
MSE	7325+00.00	25.64 Lt.	595 . 54	592.17	590 . 42	592.14	576.84	578.12	573 . 19
MSE	7325+25.00	26.44 Lt.	595.90	592.53	590.78	592 . 34	577.03	578.1 4	<i>573.19</i>
MSE	7325+50.00	27.67 Lt.	<i>596.15</i>	592.78	591.03	592.70	577.22	<i>578.1</i> 5	<i>573.19</i>
MSE	7325+75.00	29.11 Lt.	596.38	593.01	591.26	<i>578.65</i>	577.40	578.17	<i>573.19</i>
MSE	7326+00.00	30.54 Lt.	596.71	593.34	591.59	<i>593.33</i>	577.58	<i>578.18</i>	<i>573.19</i>
MSE	7326+25.00	31.98 Lt.	597 . 16	593 . 79	592.04	593 . 87	577.74	<i>578.18</i>	<i>573.19</i>
MSE	7326+25.98	32.03 Lt.	597 . 18	593.81	592.06	593.84	577.75	578.17	<i>573.19</i>

Elevation A - Top of Parapet

Elevation B - Top of Coping

Elevation C - Top of Exposed Panel Line Elevation D - Existing Grade at F.F. of Wall

Elevation E - Interim Grade at F.F. of Wall Elevation F - Finished Grade at F.F. of Wall

Elevation G - Top of Leveling Pad

- Earth Excavation beyond the limits of Structure Excavation shall be sloped as shown in the cross-sections. For Earth Excavation quantity see Civil sheets.
- MSE reinforced soil mass and area behind reinforced soil mass, as shown in the cross-section, shall be backfilled with Lightweight Cellular Concrete Fill.
- 4. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
- 5. Temporary Soil Retention System shall be installed without the use of impact-type pile drivers. The proposed equipment and procedures used for the installation of Temporary Soil Retention System shall be submitted to the Engineer for approval prior to their use. If vibratory equipment utilized, the Contractor shall also submit documentation regarding the operating noise levels and operating vibration characteristics of the equipment proposed. The approval of the equipment and procedure by the Engineer does not guarantee the performance in the field of the equipment will be acceptable. All provisions and requirements required under Constration Vibration Monitoring, Monitoing Adjacent Structures and Noise Compliance shall apply to work performed under this item. The costs incurred finding suitable equipment and procedures shall be included in the cost of Temporary Soil Retention System. No additional costs shall be paid for this effort.

<u>TEMPORARY</u> SOIL RETENTION SYSTEM

BILL OF MATERIAL

Item	Unit	Total		
Temporary Soil Retention System	Sq. Ft.	502		

LEGEND:

Removal of Existing Wall 8

Limits of Structure Excavation

AECOM

	USER NAME = \$USER	DESIGNED - MK	REVISED		TYPICAL SECTION IV	F.A.I. RTF.	SECTION	COUNTY	TOTAL SHEET
A		CHECKED - ATB	REVISED	STATE OF ILLINOIS		90/94/290	2014-013R&B-R	соок	1972 1057
78	PLOT SCALE = N.T.S.	DRAWN - GF	REVISED	DEPARTMENT OF TRANSPORTATION	,,			CONTRACT	T NO. 60X93
	PLOT DATE = 7/30/2018	CHECKED - ATB	REVISED		SHEET NO. S7-11 OF S7-26 SHEETS		ILLINOIS FED. AI	D PROJECT	

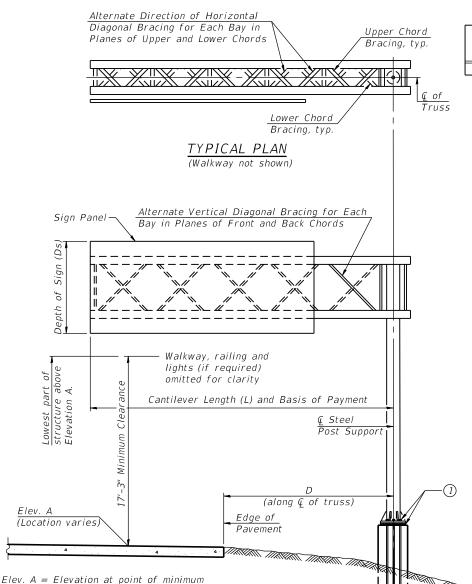


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PLOT SCALE =	=	N.T.S	DRAWN	-	AMS	REVISED	-
PLOT DATE =	=	1/23/2020	CHECKED	-	MAI, JMG	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	ORD DRAWINGS NO. SB-14A
SHEET NO. SS63	OF SS83 SHEETS

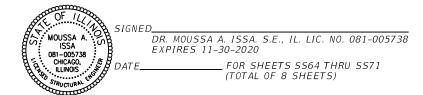
F.A.I. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.	
90/94/290				соок	1360	742	
			CONTRACT NO. 62A77				
ILLINOIS FED, AID PROJECT							

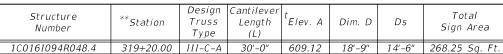


TYPICAL ELEVATION

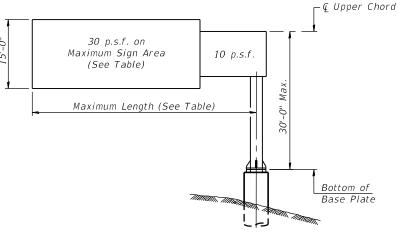
Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.





Truss Type	Maximum Sign Area	Maximum Length
I-C-A	170 Sq. Ft.	25 Ft.
II-C-A	340 Sq. Ft.	30 Ft.
III-C-A	400 Sq. Ft.	40 Ft.



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards Installations not within dimensional limits shown require special analysis for all components.

Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the trusses.

1) After adjustments to level truss and ensure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

 st If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

^LElevation A has been approximated based on historical drawings and assuming a future 3" increase in top of roadway elevations. The Contractor shall field-verify this elevation and make necessary approved adjustments. Any variations shall not be cause for additional compensation for a change in the scope of work. Consideration of the future 3" increase in top of roadway elevations shall be included in the final determination of Elevation A.

 ** Approximately 30' southeast of existing cantilever sign structure along SB I-90/94

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES: Field Units f'c = 3,500 p.s.i.

fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

WALKWAY: Walkway grating, walkway brackets, handrails, lighting and associated components shown in these plans on the traffic side of the sign structure/sign panel will not be installed with Contract 62A77. The truss grating and maintenance walkway behind the sign panel will be included with Overhead Sign Structure Cantilever Type III–C–A.

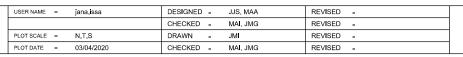
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	30
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	11.8

0SC-A-1

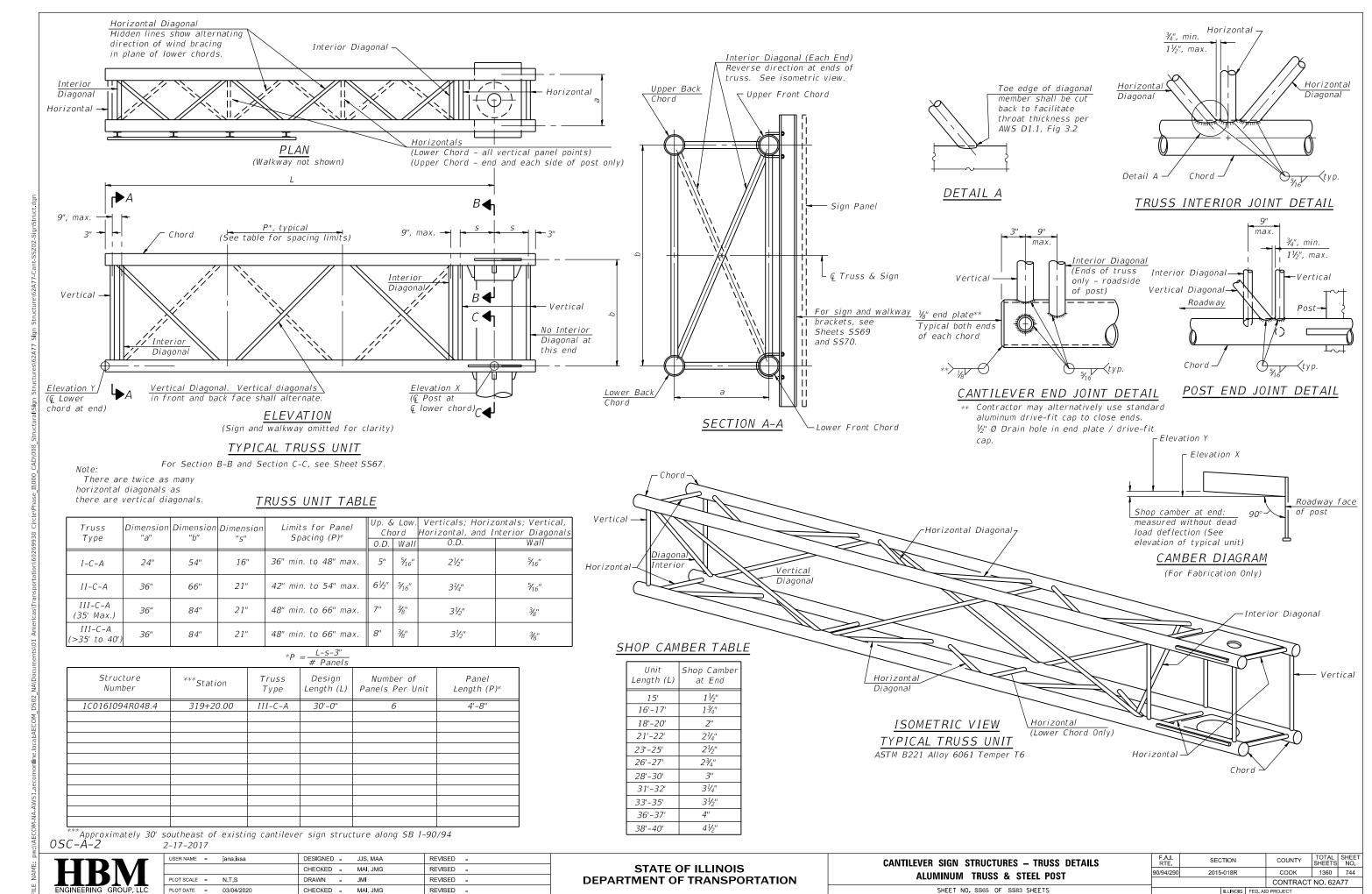
2-17-2017

clearance to sign, walkway support or truss.

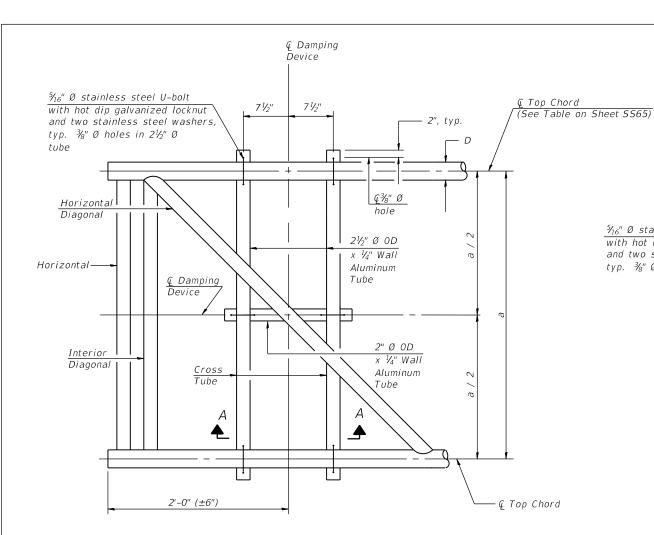


STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** CANTILEVER SIGN STRUCTURES - GENERAL PLAN & ELEVATION **ALUMINUM TRUSS & STEEL POST** SHEET NO. SS64 OF SS83 SHEETS

SECTION COUNTY 90/94/290 2015-018R COOK 1360 743 CONTRACT NO. 62A77 ILLINOIS FED. AID PROJECT



11:16:44 AM



_@ Cross Tubes 71/2" 71/2" $\frac{5}{16}$ " Ø stainless steel U-bolt <u>- 2"</u> typ. with hot dip galvanized locknut and two stainless steel washers, typ. ¾" Ø holes in mounting tube -Mounting Tube - Damping Device

© Damping Device See Plan Detail -

ELEVATION

Aluminum Cantilever Sign Structure

TRUSS DAMPING DEVICE CONNECTION DETAIL

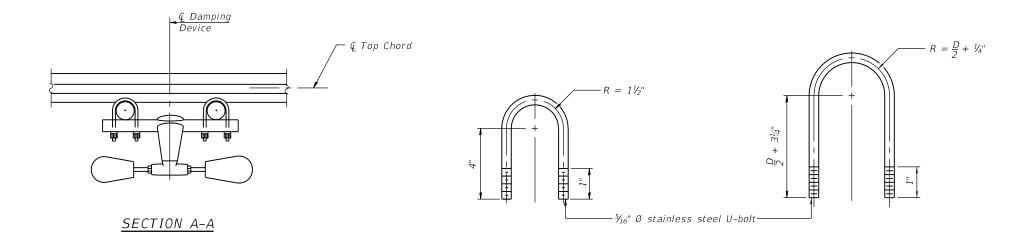
PLAN DETAIL

GENERAL NOTES

One damper per truss. (31 lbs. Stockbridge-Type Aluminum-29" minimum between ends of weights) Damper:

Materials: Aluminum tubes shall be ASTM B221 alloy 6061

temper T6



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL (Typical)

TOP CHORD TO CROSS TUBE U-BOLT DETAIL (Typical)

OSC-A-D

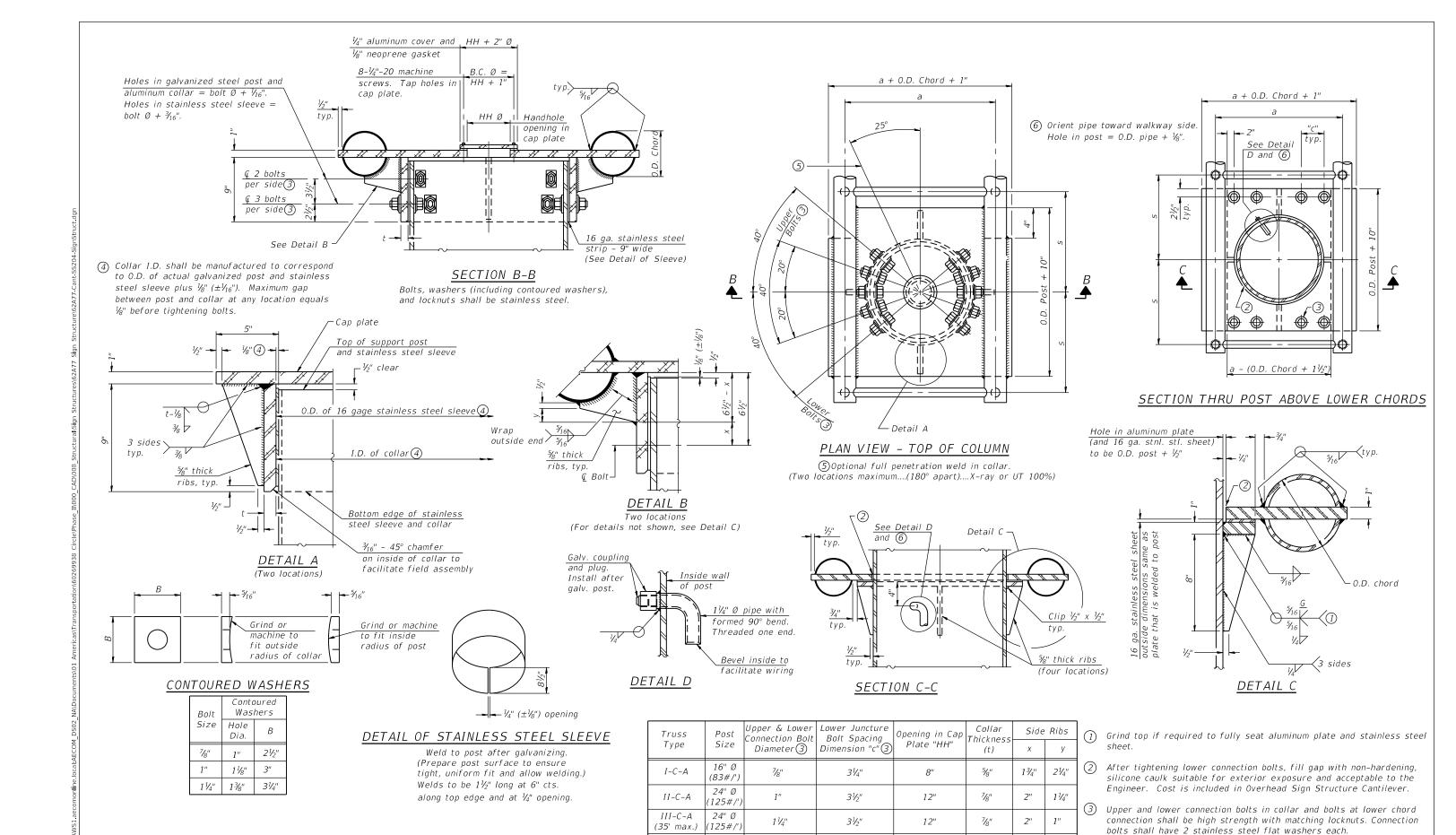
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HBM	
ENGINEERING GROUP, LLC	

USER NAME	=	ali,issa	DESIGNED	-	JJS, MAA	REVISED	-
			CHECKED	-	MAI, JMG	REVISED	-
PLOT SCALE	-	N.T.S	DRAWN	-	JMI	REVISED	-
PLOT DATE	-	1/23/2020	CHECKED	-	MAI, JMG	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

CANTILEVER SIGN STRUCTURE DAMPING DEVICE		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		2015-018R		соок	1360	745	
					CONTRACT	Γ NO. 62	۹77
SHEET NO. SS66 OF SS83 SHEETS			ILLINOIS	FED. All	D PROJECT		



0SC-A-3

2-17-2017

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ENGINEERING GROUP, LLC

USER NAME =	ali,issa	DESIGNED -	JJS, MAA	REVISED -
		CHECKED -	MAI, JMG	REVISED -
PLOT SCALE =	N.T.S	DRAWN -	JMI	REVISED -
PLOT DATE =	1/23/2020	CHECKED -	MAI, JMG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

11/4"

31/2"

24" Ø

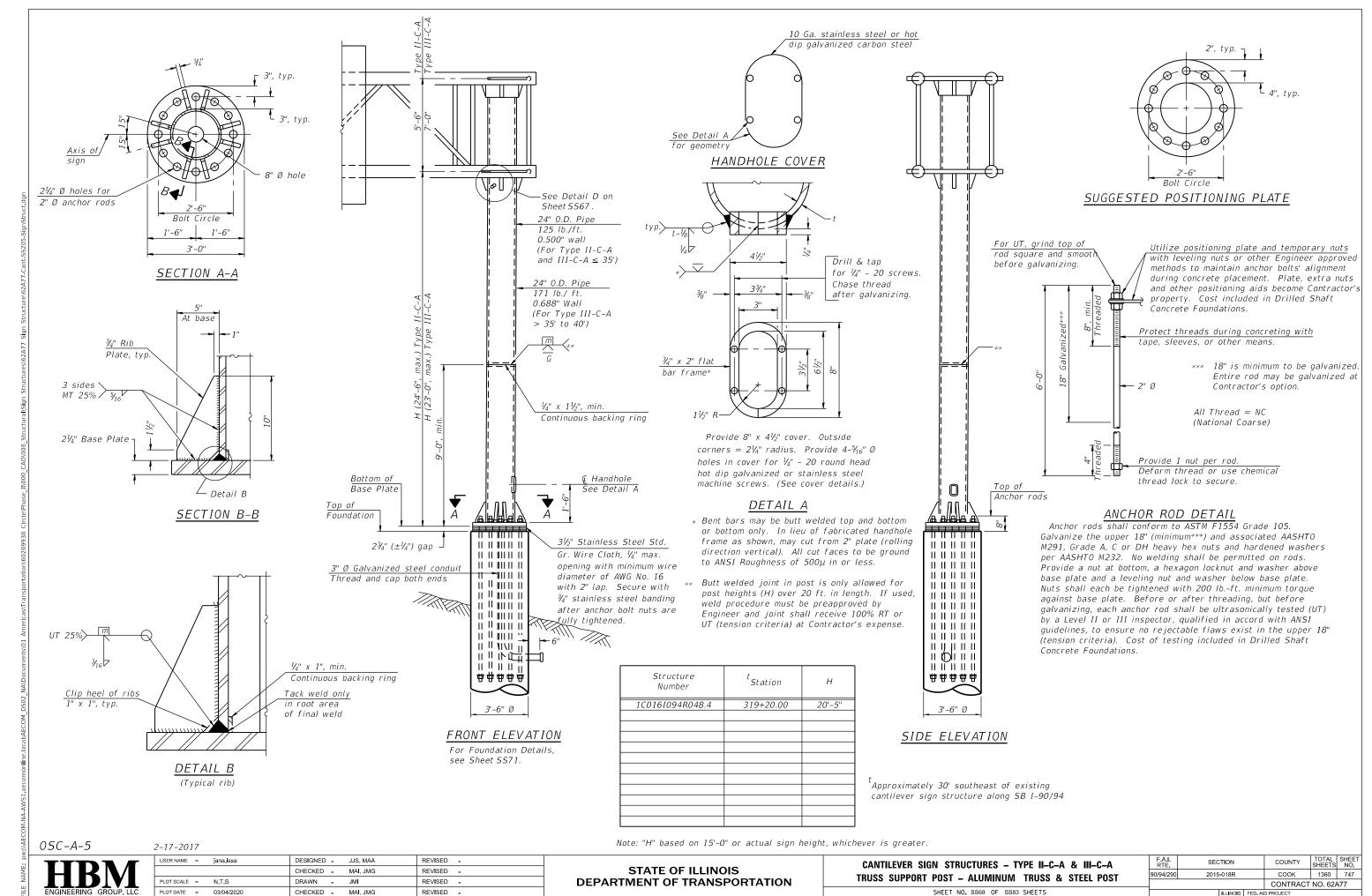
III-C-A

>35' to 40')|(171#/'

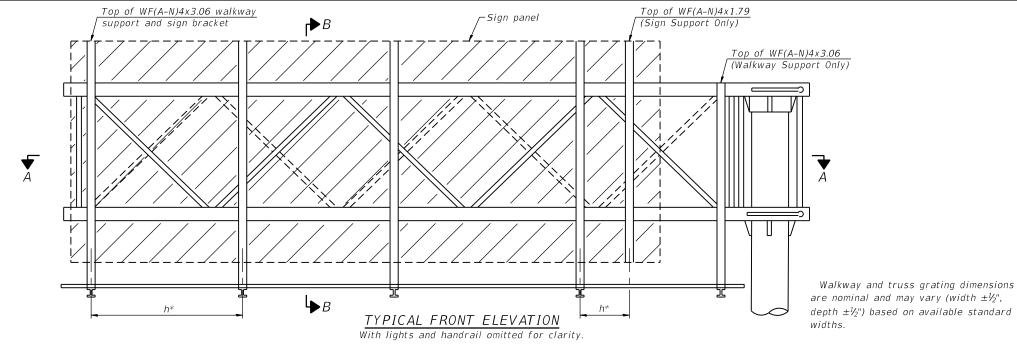
CANTILEVER SIGN STRUCTURES – JUNCTURE DETAILS	F.A.I. RTE	
ALUMINUM TRUSS & STEEL POST	90/94/290	
ALOMINOM 111033 & STEEL 1 031		
CHEET NO CORT OF CORP CHEETS		

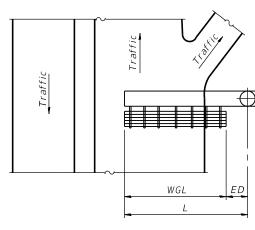
7/8"

12"



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PLANWALKWAY AND HANDRAIL SKETCH (Road plan beneath truss varies)

Truss Grating Length (TGL) Truss grating Splice* *** Alternate angle = WF(A-N)4x3.06* for safety chain -WF(A-N)4x3.06Grating f* attachment \Sign Panel ← Walkway Grating Splice** Standard Aluminur Bar Grating Safety Chain ¥ ⊈ G Handrail Joint<u>**</u> Each end \Box ∟Walkway grating `-Detail F ∽Detail G Light fixture supports. Handrail -Length as required for lighting fixtures. (If required) End Distance Walkway Grating Length (WGL) Design Length (L) ← Ç Column

Structure Number	^t Station	WGL	ED	TGL
1C016I094R048.4	319+20.00	-	-	28'-6"

Approximately 30' southeast of existing cantilever sign structure along SB I-90/94

Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f=12" maximum, 4" minimum (End of sign to m Q of nearest bracket) g=12" maximum, 4" minimum (End of walkway to m Q of nearest bracket)

h = 6'-0'' maximum (C to C sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)

*** If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on Base Sheet OSC-A-8.

For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Sheet SS70.

For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

SECTION A-A

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

Handrail and walkway grating shall span a minimum of three brackets between splices. ** Use and location of handrail joints or grating splices are optional, based on lengths needed and material availability.

 $TGL = L - (\frac{Post \ O.D.}{2} + 6")$

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6								
Sign \	Number							
Greater Than	Less Than or Equal To	Brackets Required						
	8'-0"	2						
8'-0"	14'-0"	3						
14'-0"	20'-0"	4						
20'-0"	26'-0"	5						
26'-0"	32'-0"	6						

0SC-A-6

2-17-2017

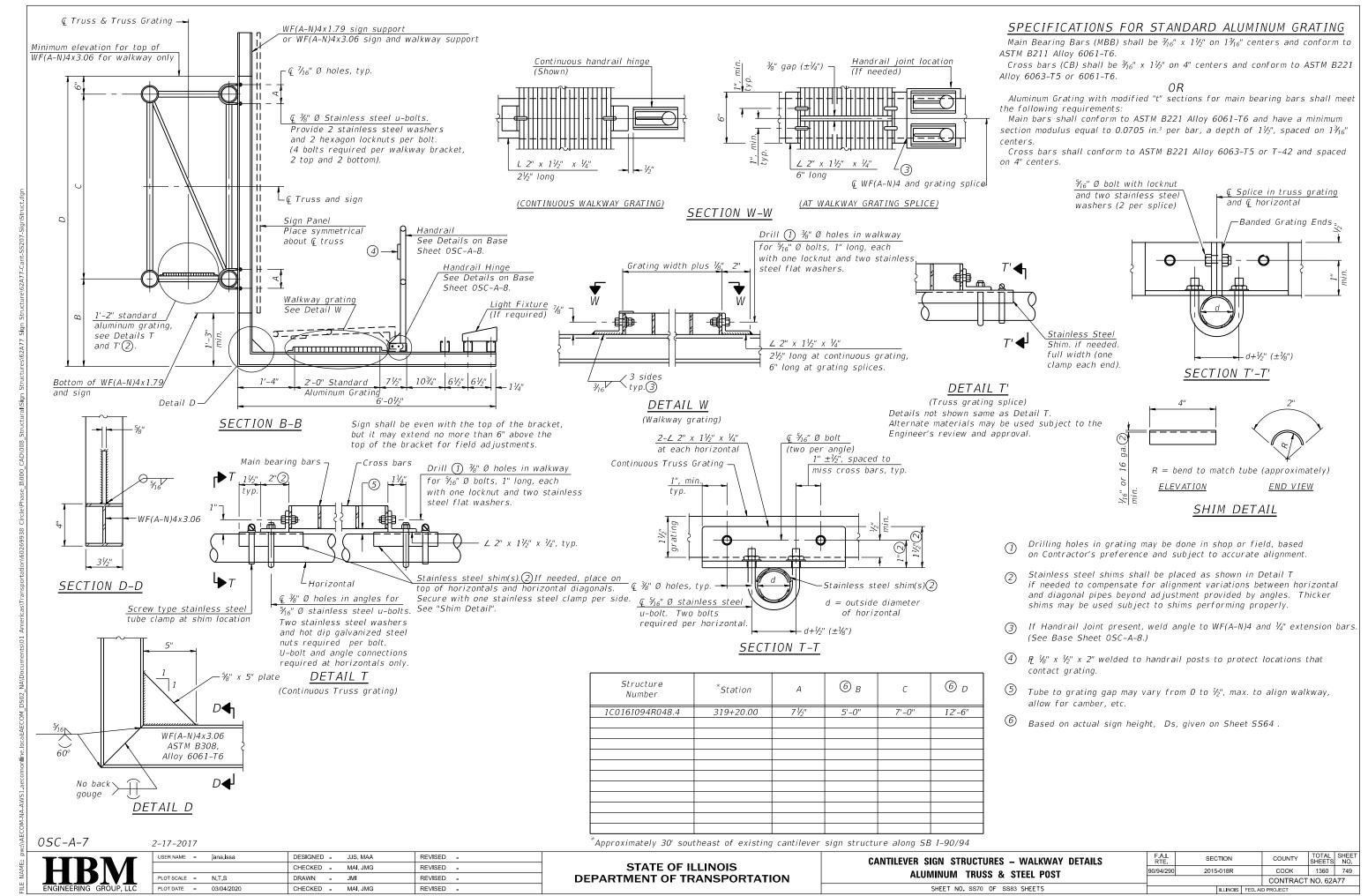
HBM	
ENGINEERING GROUP, LLC	

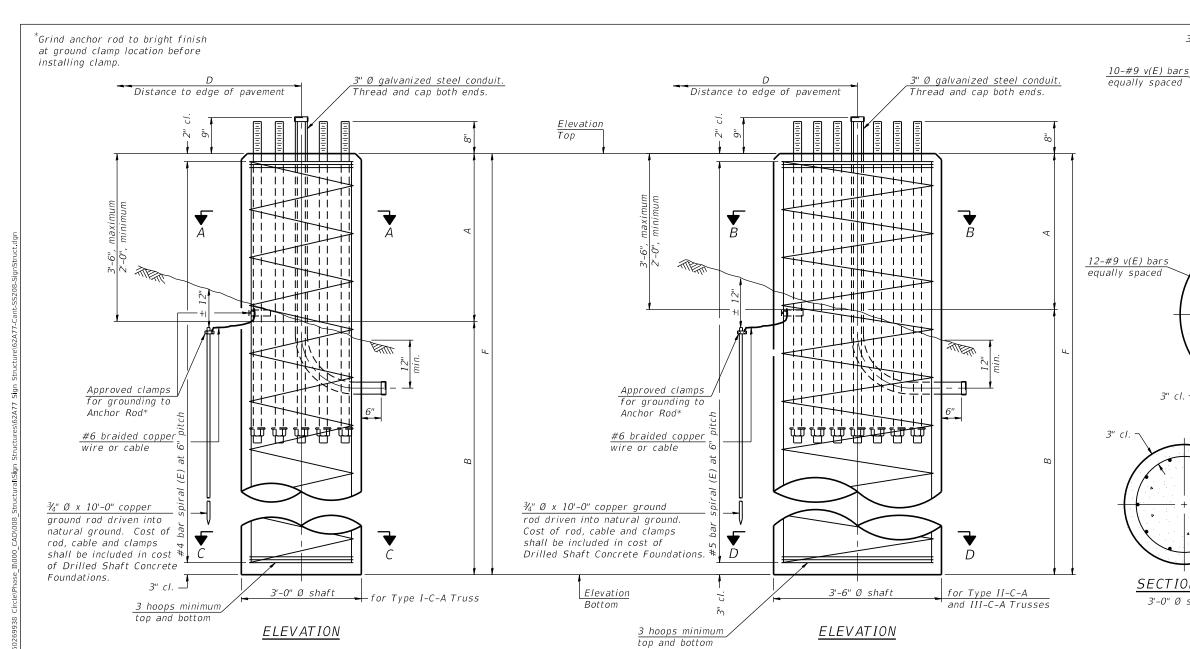
USER NAME =	=	jana issa	DESIGNED	-	JJS, MAA	REVISED	-
			CHECKED	-	MAI, JMG	REVISED	-
PLOT SCALE =	=	N.T.S	DRAWN	-	JMI	REVISED	-
PLOT DATE =	-	03/04/2020	CHECKED	-	MAI, JMG	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

ANTILEVER SIGN STRUCTURES – ALUMINUM WALKWAY DETAILS – ALUMINUM TRUSS & STEEL POST	
SHEET NO. SS69 OF SS83 SHEETS	

	F.A.I. RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	90/94/290	90 2015-018R			соок	1360	748
				CONTRACT	NO. 62/	۹77	
ILLINOIS FED. AI				D PROJECT			





FOUNDATION DESIGN TABLE Maximum Maximum Shaft "B" Anchor Rods Anchor Rod Post Base Truss Cantilever Circle Diamete Total Sign Area iamete Depth Diameter Туре Sheet No. Length (ft) (sq ft) (ft) (in) (ft) (in) 0SC-A-4 3.0 16.0 170 0SC-A-5 30 II-C-A 170 3.5 30 30 II-C-A OSC-A-5 30 340 3.5 21.5 12 III-C-A 0SC-A-5 170 250 19.0 30 30 III-C-A OSC-A-5 22.5 12 35 3.5 III-C-A OSC-A-5 400 3.5 26.5 12 30 35 III-C-A OSC-A-5 32.0 400 3.5

For details of anchor rods and positioning templates, see Truss Support Post Base SECTION A-A Sheet OSC-A-4 and Sheet SS68. 3'-0" Ø shaft #5 bar spiral (E) 12-#9 v(E) bars equally spaced Anchor Rod Circle Diameter For details of anchor rods and positioning templates, see Truss Support Post Base Sheet OSC-A-4 and Sheet SS68 SECTION B-B 3" cl. 3'-6" Ø shaft 10-#9 v(E) bars equally spaced -#4 bar spiral (E) SECTION C-C 3'-0" Ø shaft -#5 bar spiral (E) 12-#9 v(E) bars equally spaced SECTION D-D 3'-6" Ø shaft **Approximately 30' southeast of

-#4 bar spiral (E)

Anchor Rod

Circle Diameter

NOTES:

The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

FOUNDATION DATA TABLE											
Structure Number	**Station	Truss Type	Shaft Diameter	^t Elevation Top	Elevation Bottom	Qu	А	В	F	Class DS Concrete Cubic Yards	
1C016I094R048.4	319+20.00	III-C-A	3'-6"	610.97	577.97	=	3'-0"	30'-0"	33'-0"	11.8	

Approximately 30' southeast of existing cantilever sign structure along SB I-90/94

tContractor shall verify existing grade elevation in the field and make necessary approved adjustments prior to construction or ordering of materials.

0SC-A-9

2-17-2017



USER NAME	=	jana issa	DESIGNED	-	JJS, MAA	REVISED	-
			CHECKED	-	MAI, JMG	REVISED	-
PLOT SCALE	=	N.T.S	DRAWN	-	JMI	REVISED	-
PLOT DATE	=	03/04/2020	CHECKED	-	MAI, JMG	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - DRILLED SHAFT
ALUMINUM TRUSS & STEEL POST

SHEET NO. SS71 OF SS83 SHEETS

F.A.I. RTE.	SEC	CTION		COUNTY	TOTAL SHEETS	SHEE NO.
90/94/290	2015	5-018R		соок	1360	750
			CONTRACT NO. 62A77			
		ILLINOIS	D PROJECT			

WangEngineering

wangeng@wangeng.com 1145 N Main Street Lombard, IL 60148 Telephone: 630 953-9928 Fax: 630 953-9938

BORING LOG SB-01

WEI Job No.: 1100-04-01

AECOM Client Project Jane Byrne Interchange Section 16, T39N, R14E of 3rd PM wangeng@wangeng.com

Datum: NAVD 88 Elevation: 607.09 ft North: 1912970.42 ft East: 1164914.52 ft Station: NA Offset: NA

Profile	SOIL AND ROCK DESCRIPTION	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	10-inch thick CONCRETE		1	36 38 22	NΡ	7				- - - -		9	5 6 9	4.35 B	19
	Stiff to very stiff, dark brown, brown and gray SILTY CLAY LOAM to CLAY LOAM, trace to little gravel and debris; dampFILL 5		2	3 7 15	2.50 P	15		581.6		- - - 25_		10	5 9 10	2.52 B	18
			3	3 5 5	2.05 B	17		gra	oft to medium stiff, brown and ay to gray CLAY to SILTY LAY, trace gravel; damp to w RDR 1 to	et -		11	4 4 3	0.79 B	22
	 		4	3 5 5	1.75 P	18				- - 30_ -		12	3 3 4	0.57 B	25
	some brick fragments and debris		5	3 9 15	NA	18				- - -	-				
	15, 591.6 Medium dense, brown, gray and		6	3 3 8	2.30 B	20				- 35_ -		13	2 2 4	0.41 B	24
0.00.00.00.00	black SANDY GRAVEL; damp FILL RDR 3		7	9 6 8	NΡ	20				- - -	-				
Be Dr Dr	Stiff to hard, brown and gray to brown SILTY CLAY, trace gravel; dampRDR 2-20		8	6 8 8	1.97 B	21			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	40		14	2 3 4	0.41 B	26
2 5	GENERAL I				_	4 22		20	WATER L						
Be		mplete		•		1-29			While Drilling				00 ft	•••••	
	Drilling Contractor Wang Testing Services Drill Rig Driller R&K Logger F. Bozga Checked by C. Marin														
Dr Dr	Drilling Method 3.25" IDA HSA, boring backfilled upon completion							Time After Drilling NA Depth to Water ▼ NA							
	פווווטט, מטוו מעו אַ אַיגע.	, yay	151111	18M.U	49D.S	(2111)	415 <u>4</u> F)	911	The stratification lines represent	the app	roxim	ate b	oundary	/	
:									between soil types: the actual tra	nsition I	mav b	e gra	dual.		

1145 N Main Street

Lombard, IL 60148

Fax: 630 953-9938

Telephone: 630 953-9928

BORING LOG SB-01

WEI Job No.: 1100-04-01

Client **AECOM** Project Jane Byrne Interchange Section 16, T39N, R14E of 3rd PM

Datum: NAVD 88 Elevation: 607.09 ft North: 1912970.42 ft East: 1164914.52 ft Station: NA

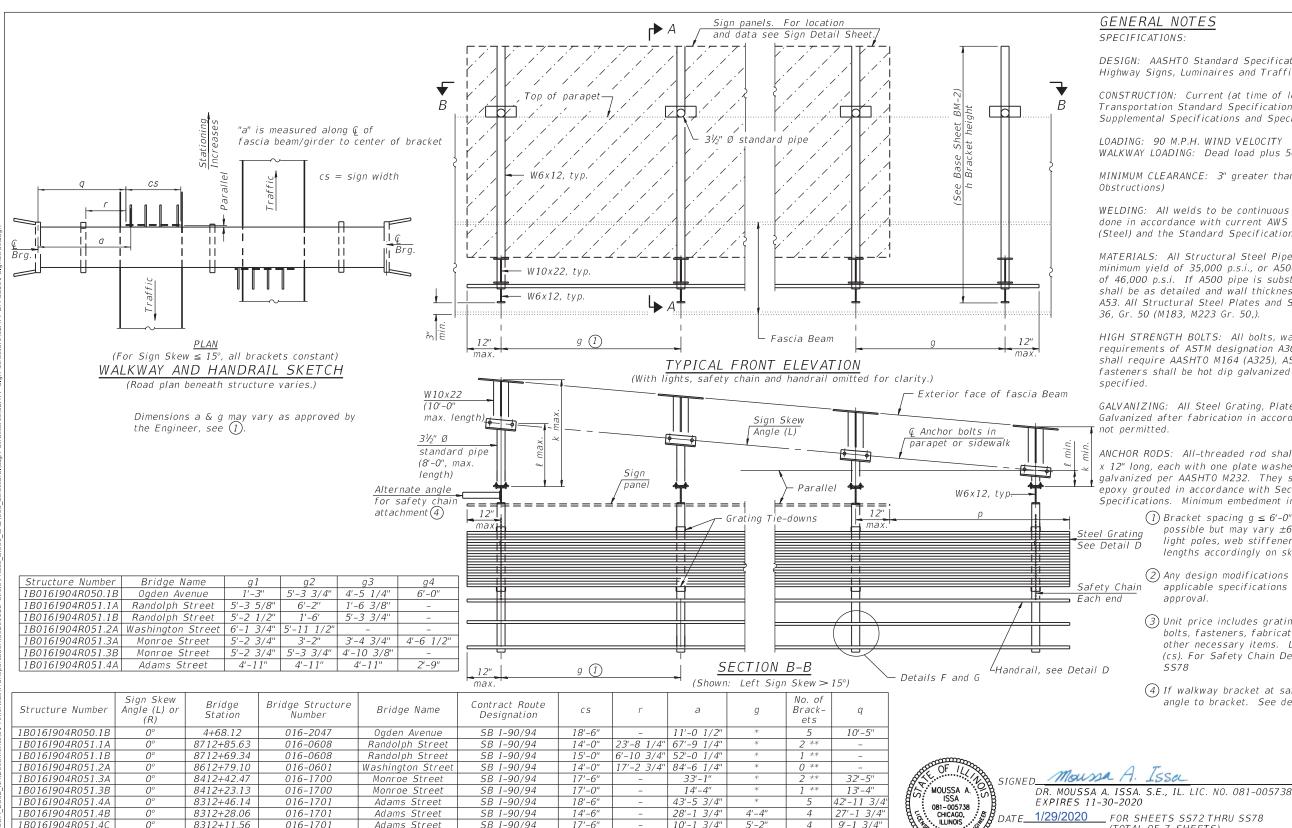
Offset: NA

SOIL AND ROCK SOIL AND ROCK DESCRIPTION DESCRIPTION Medium dense to dense, gray, Hard, gray SILTY CLAY, trace very fine to fine SAND; saturated gravel; damp --RDR 2----RDR 2--4.26 14 14 15 NP 21 10 16 В Dense to very dense, gray SILT; damp to saturated --RDR 2--35 NP 13 NP 50/5" 15 19 70 Dense, gray coarse SAND; --RDR 2--16 31 22 NP NP 16 19 42 20 Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; damp
--RDR 2--16 28 37 15 NP 20 19 Boring terminated at 80.00 ft **GENERAL NOTES WATER LEVEL DATA** 01-29-2020 52.00 ft Complete Drilling While Drilling Drilling Contractor Wang Testing Services Drill Rig At Completion of Drilling 68.00 ft NA R&K Logger F. Bozga Checked by C. Marin Time After Drilling NA Drilling Method 3.25" IDA HSA, boring backfilled upon completion Depth to Water The stratification lines represent the approximate boundary between soil types: the actual transition may be gradual.

SER NAME = marian.agamy DESIGNED - JJS, MAA REVISED -REVISED -CHECKED - MAI, JMG DRAWN - JMI REVISED -CHECKED - MAI, JMG REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SOIL BORING COOK 1360 750A CONTRACT NO. 62A77 SHEET NO. SS71A OF SS83 SHEETS



17'-6"

18'-6"

14'-6"

20'-6"

SB I-90/94

SB I-90/94

SB I-90/94

EB I-290

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

MINIMUM CLEARANCE: 3" greater than bridge members at all locations. (All

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code (Steel) and the Standard Specifications.

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50,).

HIGH STRENGTH BOLTS: All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is

ANCHOR RODS: All-threaded rod shall conform to ASTM F1554 Grade 105. 3/4" Ø x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

- 1) Bracket spacing $g \le 6'-0''$, max. Spacing shall be uniform if possible but may vary ±6" to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.
- (2) Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.
- (3) Unit price includes grating, handrail, brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based sign width (cs). For Safety Chain Details and Details D, F and G, see Sheet
- 4) If walkway bracket at safety chain location is behind sign, add angle to bracket. See detail on Sheet SS78

NOTES:

- 1."q" is measured from @ Brg. of abutment along & of fascia beam/girder to edge of sign.
- 2."r" is measured from face of pier along Q of fascia beam/girder to edae of sian.
- 3. Walkway grating, walkway brackets, handrail, lighting, and associated components shown in these plans will not be installed with Contract 62A77.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	FOOT	102
REMOVE AND RE-ERECT STRUCTURAL STEEL SUPPORT FOR	EACH	3
OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED		
STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN	EACH	4
STRUCTURE - BRIDGE MOUNTED		
MODIFICATION OF ORNAMENTAL CLADDING	F00T	65

Note Signs A, B, C and g1-g4 are listed from east to west

8312+11.56

8212+28.46

8212+11.46

3702+77.68

* On signs with existing brackets to be reused, only proposed brackets, or brackets to be removed and re-erected, are listed For 1B016I904R050.1B (Ogden Ave), all brackets except the western most bracket shall be installed at the location of the existing holes.

For 1B016I904R051.1A (Randolph St), the east bracket shall be removed and re-erected, one proposed bracket shall be installed at the west end of the sign, and two existing brackets shall be reused

For 1B016I904R051.1B (Randolph St), one proposed bracket shall be installed, and three existing brackets shall be reused.

016-170

016-1702

016-1702

016-1708

For 1B016I904R051.2A (Washington St), all 3 brackets shall be reused.

For 1B016I904R051.3A (Monroe St), the east and west bracket shall be removed and re-erected. The other three brackets shall be reused.

For 1B0161904R051.3B (Monroe St), the three east brackets shall be reused, and 1 proposed bracket shall be installed west of the western bracket.

Adams Street

Jackson Blvd

Jackson Blvd

Peoria Street

1B016I904R051.4C

1B016I904R051.5A

1B016I904R051.5B

1B016I290R029.7

USER NAME	-	ali,issa	DESIGNED	-	CP, LAB	REVISED	-
			CHECKED	-	LAB, JJS	REVISED	-
PLOT SCALE	-	N.T.S	DRAWN	-	CP	REVISED	-
PLOT DATE	-	1/23/2020	CHECKED	-	LAB, JJS	REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

5'-7"

4'-2'

3'-6"

22'-4"

26'-2"

4

9'-1 3/4"

21'-7"

6'-7'

6'-8"

BRIDGE MOUNT SIGN STRUCTURES **GENERAL PLAN AND ELEVATION** SHEET NO. SS72 OF SS83 SHEETS

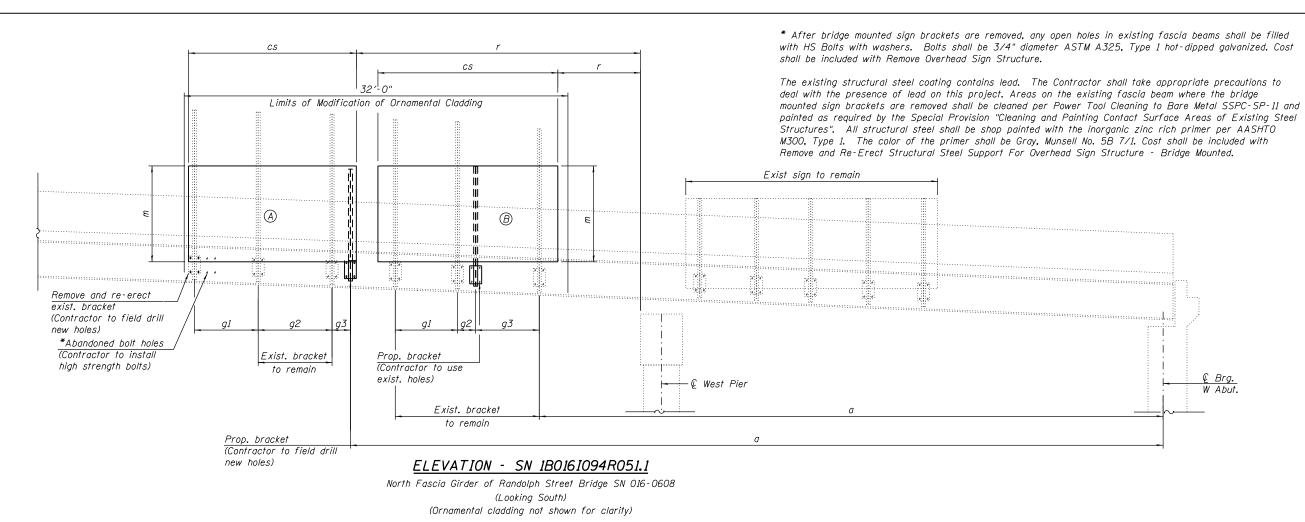
FOR SHEETS SS72 THRU SS78

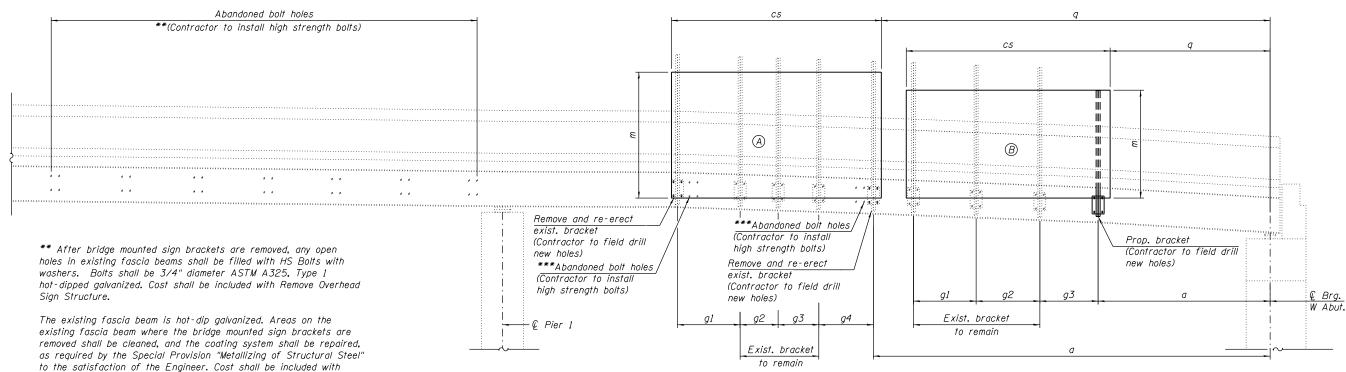
(TOTAL OF 7 SHEETS)

1/29/2020

3

SECTION COUNTY 90/94/290 2015-018R COOK 1360 751 CONTRACT NO. 62A77 ILLINOIS FED. AID PROJECT





*** Cost included with Remove and Re-Erect Structural Steel Support For Overhead Sign Structure - Bridge Mounted.

Remove Overhead Sign Structure.

ELEVATION - SN 1B016I094R051.3

North Fascia Girder of Monroe Street Bridge SN 016-1700 (Looking South)

HB	$\overline{\mathbf{M}}$
ENGINEERING G	ROUP, LLC

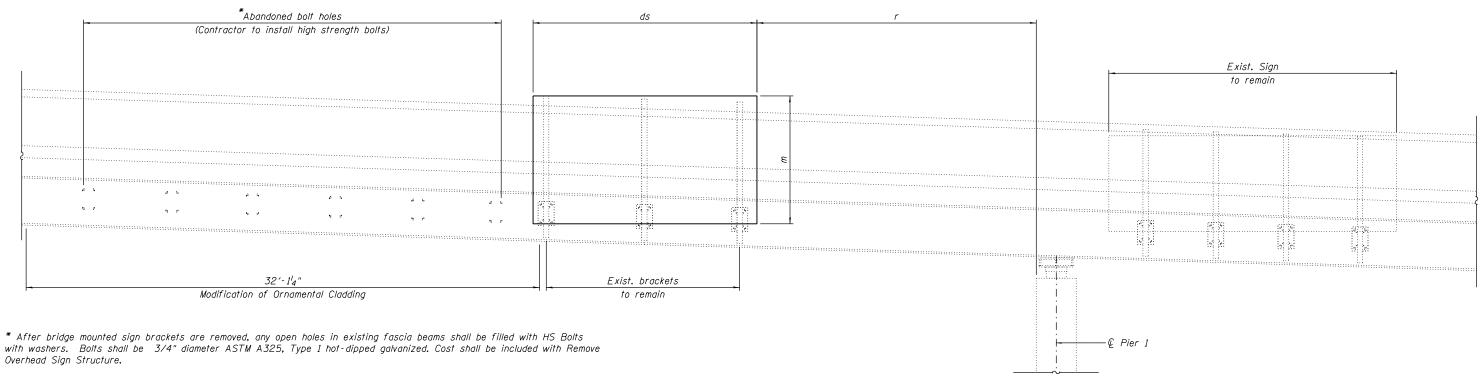
USER NAME	-	jana.issa	DESIGNED	-	AMS, LAB	REVISED	-
			CHECKED	-	LAB, JJS	REVISED	-
PLOT SCALE	-	N.T.S	DRAWN	-	AMS	REVISED	-
PLOT DATE	-	03/04/2020	CHECKED	-	LAB, JJS	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNT SIGN STRUCTURES	F.A.I. RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
ELEVATION	90/94/290 2015-018R		соок	1360	752		
ELEVATION					CONTRAC	T NO. 62	١77
SHEET NO. SS73 OF SS83 SHEETS			ILLINOIS	FED. All	D PROJECT		

ELEVATION - SN 1B0161290R029.7

West Fascia Girder of Peoria Bridge SN 016-1708 (Looking East)



Overhead Sign Structure.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project. Areas on the existing fascia beam where the bridge mounted sign brackets are removed shall be cleaned per Power Tool Cleaning to Bare Metal SSPC-SP-11 and painted as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures". All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. The color of the primer shall be Gray, Munsell No. 5B 7/1. Cost shall be included with Remove Overhead Sign Structure.

ELEVATION - SN 1B0161290R051.2

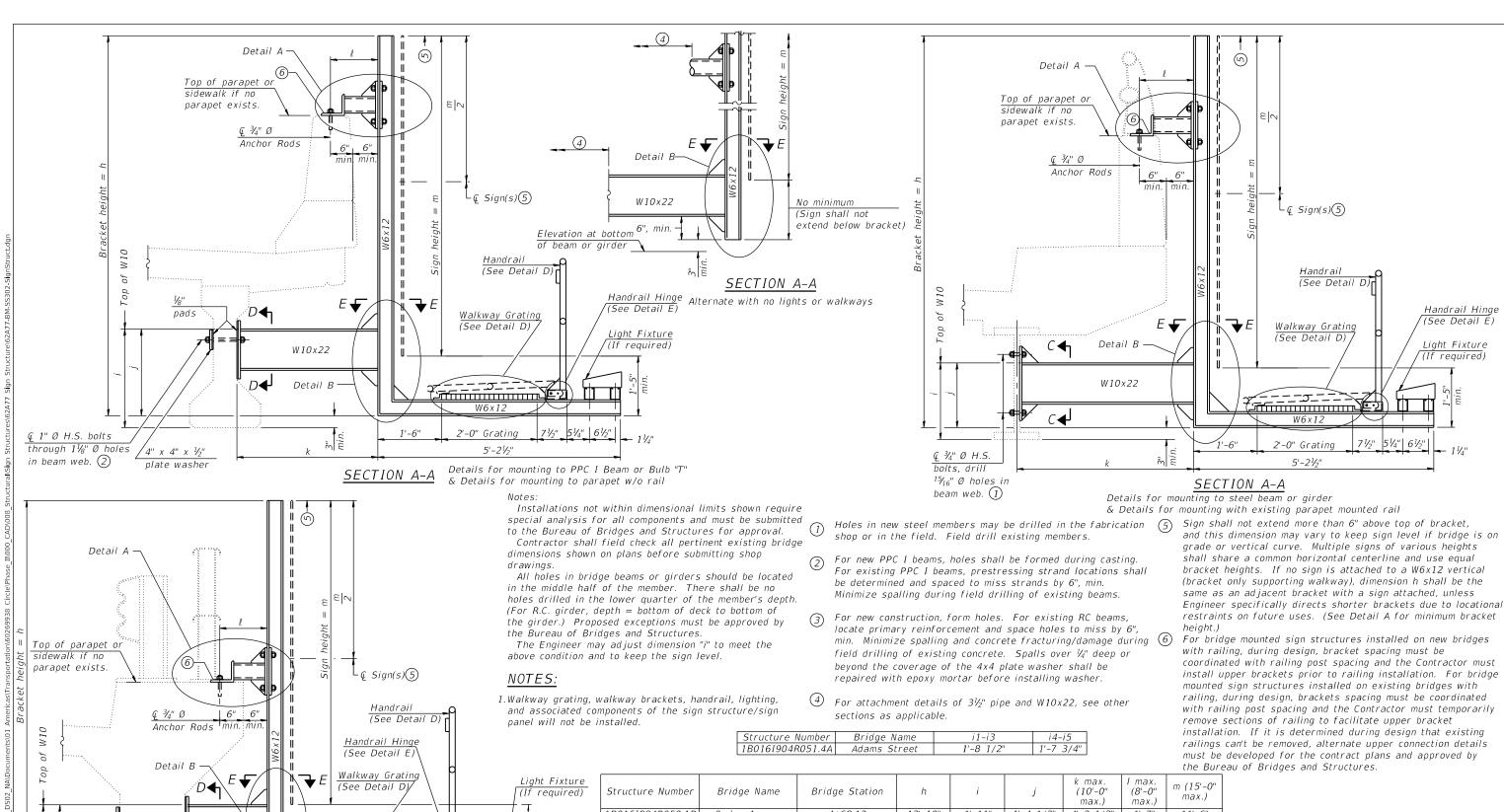
North Fascia Girder of Washington Bridge SN 0.16-0601 (Looking South) (Ornamental cladding not shown for clarity)

HBM
ENGINEERING GROUP, LLC

USER NAME =	jana issa	DESIGNED -	AMS, LAB	REVISED -
		CHECKED -	LAB, JJS	REVISED -
PLOT SCALE =	N.T.S	DRAWN -	AMS	REVISED -
PLOT DATE =	03/04/2020	CHECKED -	LAB, JJS	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

BRIDGE MOUNT SIGN STRUCTURES	F.A.I. RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
ELEVATION	90/94/290	2015	-018R		соок	1360	753
LLLVATION					CONTRAC	T NO. 62/	۹77
SHEET NO. SS74 OF SS83 SHEETS			HILIMORE	EED AII	D PRO IECT		



4+68.12 1B016I904R050.1B Ogden Avenue 12'-10" 9'-4" 1'-4 1/2 4'-2 1/2 11'-6" 8712+85.63 1B016I904R051.1A Randolph Street 8'-0" 1'-11 1/2 1'-4 1/2' 3'-9" ** 2'-0" ** 1B016I904R051.1B Randolph Street 8712+69.34 10'-0" 1'-11 1/2" 1'-4 1/2" 3'-9" ** 8'-0" 1B016I904R051.2A Washington Street 8612+79.10 8'-0" 1B016I904R051.3A Monroe Street 8412+42.47 10'-6" 1B016I904R051.3B Monroe Street 8412+23.13 10'-6" 1'-10 3/4" 1'-4 1/2" 3'-0" ** 1'-0" ** 9'-0" 1B016I904R051.4A Adams Street 8312+46.14 1'-4 1/2' 14'-6' 1'-4 1/2" 3'-4 1/2" 1B016I904R051.4B 8312+28.06 15'-0" 13'-6" 1'-0" Adams Street <u>1'-4</u> 1/2" 3'-4 1/2" 1B016I904R051.4C Adams Street 8312+11.56 13'-10" | 1'-7 3/4" 11'-6" 1B016I904R051.5A Jackson Blvd 8212+28.46 1'-4 1/2' 3'-4 1/2" 14'-6" 8212+11.46 14'-6" 1'-10 1/4" 1'-4 1/2" 3'-4 1/2" 1'-0" 1B016I904R051.5B Jackson Blvd 13'-6" 9'-6" 1'-9 1/4" 1'-4 1/2" 3702+77.68 4'-0"

For Details A & B, Sections C-C, D-D and E-E, see Sheet SS77. For Details D & E, see Sheet SS78.

SECTION A-A Details for mounting to integral reinforced concrete girder & Details for mounting on safety curb with surface-mount bridge rail DESIGNED - CP, LAB

71/2" 51/4" 61/2"

REVISED -

REVISED -

REVISED -

5'-21/2"

W6x12

2'-0" Grating

CHECKED - LAB. JJS

CHECKED - LAB. JJS

1B016I290R029.7 | Peoria Street ** Verify in field: match I and k of existing brackets to remain

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

Height of existing bracket, for information only

BRIDGE MOUNT SIGN STRUCTURES WALKWAY AND CONNECTION DETAILS I		F.A.I. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.		
		2015-018R				соок	1360	754
WALKIVAT AND CONNECTION DETAILS I						CONTRACT	NO. 62	۹77
SHEET NO. SS75 OF SS83 SHEETS				ILLINOIS	FED. AI	D PROJECT		

4" x 4" x 1/5"

plate washer

¢ 1" Ø H.S. bolts

in girder.

through 11/8" Ø holes

nads

W10x22

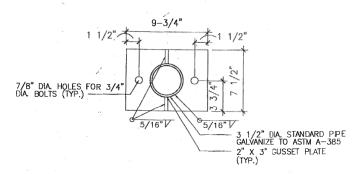
USER NAME = ali.issa

3" min.

1/23/2020

ORNAMENTAL CLADDING CONNECTION DETAIL

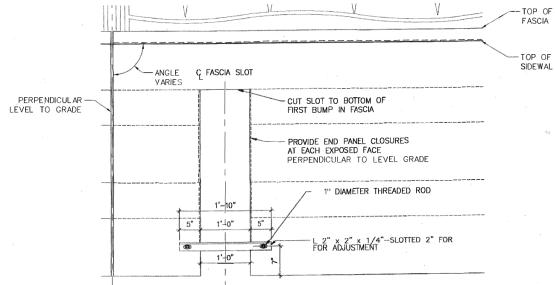
Note: All threaded rod conforming to ASTM A307, $\frac{3}{4}$ "x12" long each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be epoxy grouted in accordance with section 584 of the standard specifications. Minimum embedment in concrete shall be 9".



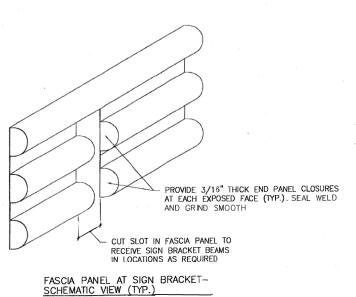
VIEW A-A SUPPORT BRACKET DETAIL

NOTES:

- 1. Existing slots which are abandoned, due to removal or relocation of the sign structure supports, shall be filled.
- 2. The existing ornamental cladding shall be modified per the details shown in the plans, or as directed by the Engineer, to permit connection of new sign structure supports to the existing structure.
- 3. 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.
- 4. The Contractor shall take all necessary precautions during removal/construction activities to avoid damage to existing elements to remain. Any damage to existing elements to remain, caused by the Contractor in the performance of his/her work, shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
- 5. See Special Provision for Modification of Ornamental Cladding for details.



VIEW B-B FASCIA SLOT DETAIL



ORNAMENTAL CLADDING DETAIL

(SN 016-0601 & SN 016-0608, For Information Only)

SEE DET. "A"



PLOT DATE	-	03/04/2020	CHECKED	-	LAB, JJS	REVISED	-
PLOT SCALE	=	N.T.S	DRAWN	-	CP	REVISED	-
			CHECKED	-	LAB, JJS	REVISED	-
USER NAME	-	jana issa	DESIGNED	-	CP, LAB	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNT SIGN STRUCTURES
WALKWAY AND CONNECTION DETAILS II

SHEET NO. SS76 OF SS83 SHEETS

F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.
90/94/290	2015-018R	соок	1360	755	
		CONTRACT	NO. 62	۹77	
	ILLINOIS	D PROJECT			

Ç FASCIA BEAMS

CAULK BETWEEN FASCIA AND SIDEWALK (TYP)

3/16" PLATE (TYP.)

SEAL WELD ALL

1" NUT-WELD TO ANGLE

PROVIDE TWO RODS PER TYPICAL FASCIA PANEL, SPACED AT PLAN THIRD

3/16" PLATE (TYP.)

CAP FASCIA ENDS AND SEAL WELD EACH SECTION WITH 3/16" PLATE (TYP.)

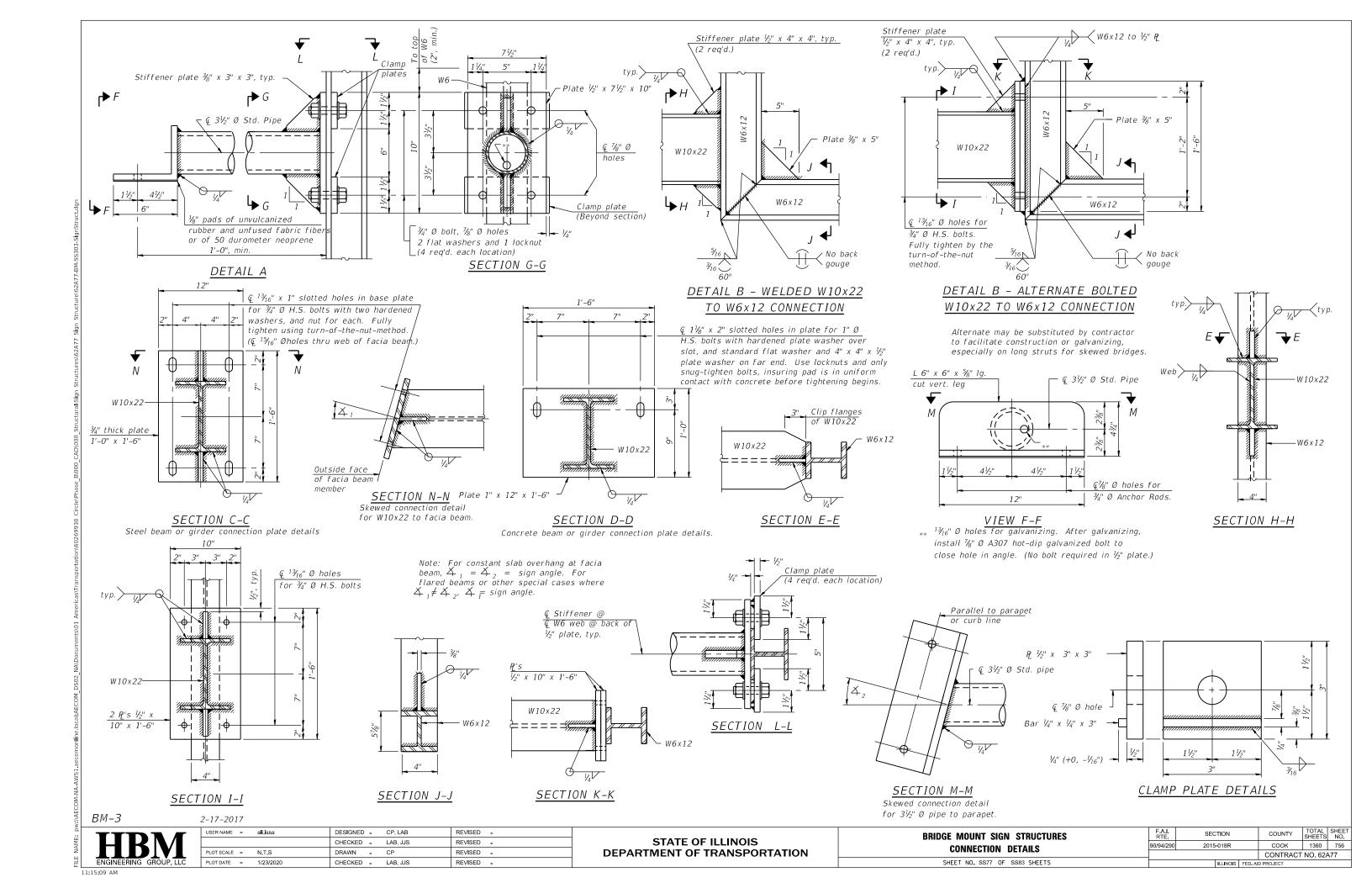
1" NUT WITH WASHERS BOTH SIDES

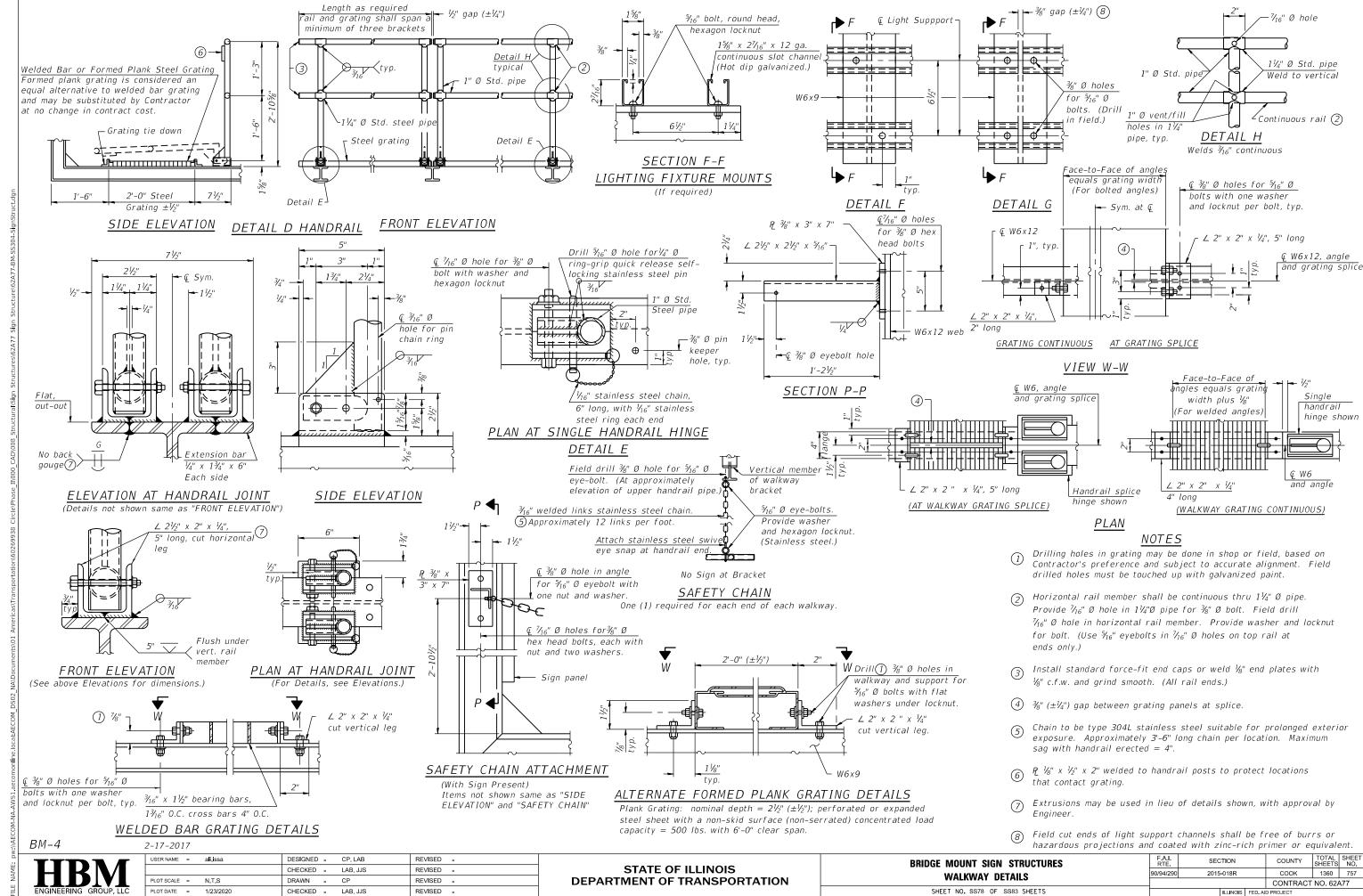
JOINTS (TYP.) L 2" X 2" X 1/4"

1" DIAMETER STEEL ROD

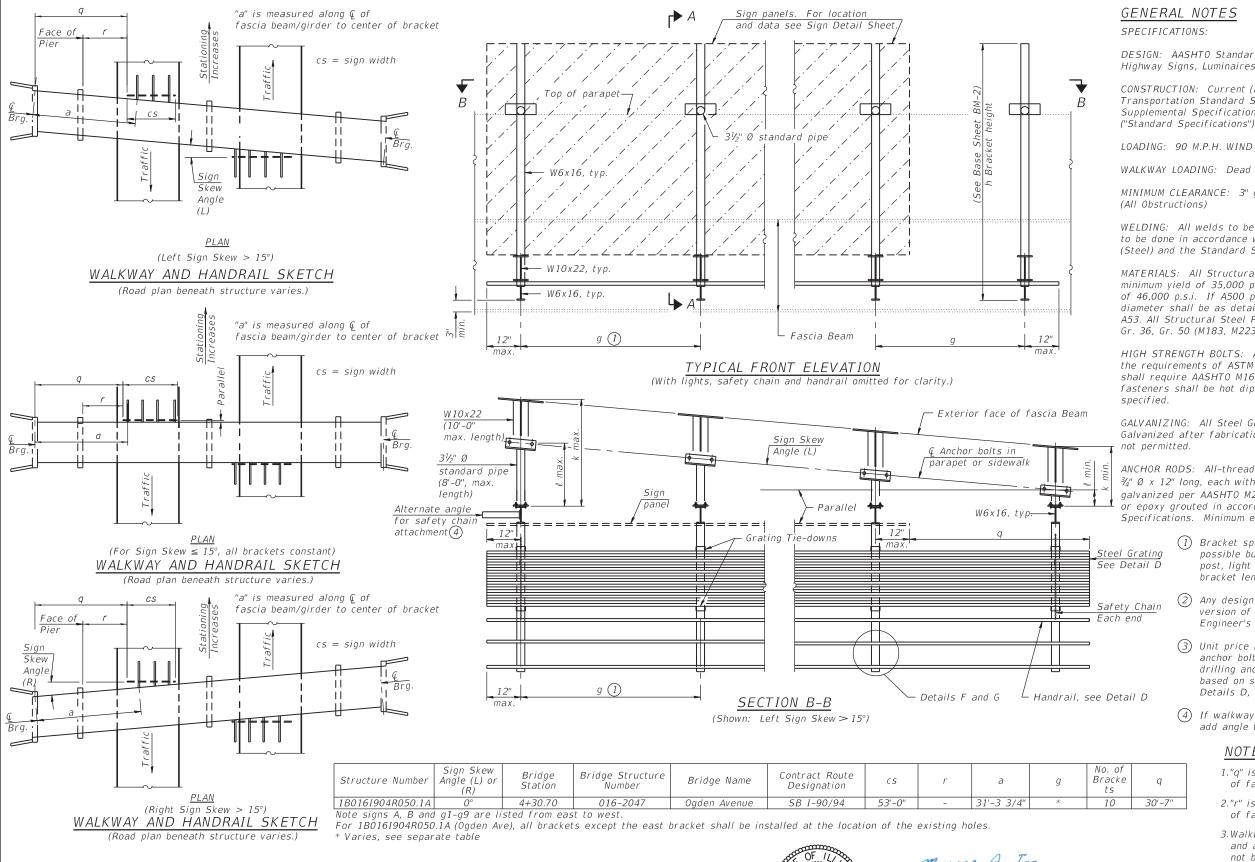
Exist. Embed 🖰 to remain

11:17:37 AN





11:15:21 AN



DESIGN: AASHTO Standard Specifications for Structural Supports for ② Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions.

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

MINIMUM CLEARANCE: 3" greater than bridge members at all locations.

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code (Steel) and the Standard Specifications.

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50,).

HIGH STRENGTH BOLTS: All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is

ANCHOR RODS: All-threaded rod shall conform to ASTM F1554 Grade 105, $rac{3}{4}$ " Ø x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

- 1 Bracket spacing $g \le 6'-0''$, max. Spacing shall be uniform if possible but may vary ± 6 " to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.
- (2) Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.
- (3) Unit price includes grating, handrail, brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on sign width (cs). For Safety Chain Details and Details D, F and G, see Sheet SS83
- (4) If walkway bracket at safety chain location is behind sign, add angle to bracket. See detail on Sheet SS83

NOTES:

- 1."q" is measured from Q Brg. of abutment along Q of fascia beam/girder to edge of sign.
- 2."r" is measured from face of pier along (of fascia beam/girder to edge of sign.
- 3. Walkway grating, walkway brackets, handrail, lighting, and associated components shown in these plans will not be installed in Contract 62A77.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
OVERHEAD SIGN STRUCTURE- BRIDGE MOUNTED (SPECIAL)	F00T	53

Dimensions a & g may vary as approved by the Engineer, see \bigcirc 1. When cw < cs and/or dw < ds, use alternate brackets without walkway supports where applicable, see \bigcirc 3



	USER NAME =	ali,issa	DESIGNED	-	CP, LAB	REVISED	-
			CHECKED	-	LAB, JJS	REVISED	-
	PLOT SCALE =	N.T.S	DRAWN	-	CP	REVISED	-
	PLOT DATE =	1/23/2020	CHECKED	-	LAB, JJS	REVISED	-
7							

Structure Number | Bridge Name

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

MOUSSA A.

ISSA

081-005738

CHICAGO,
ILLINOIS

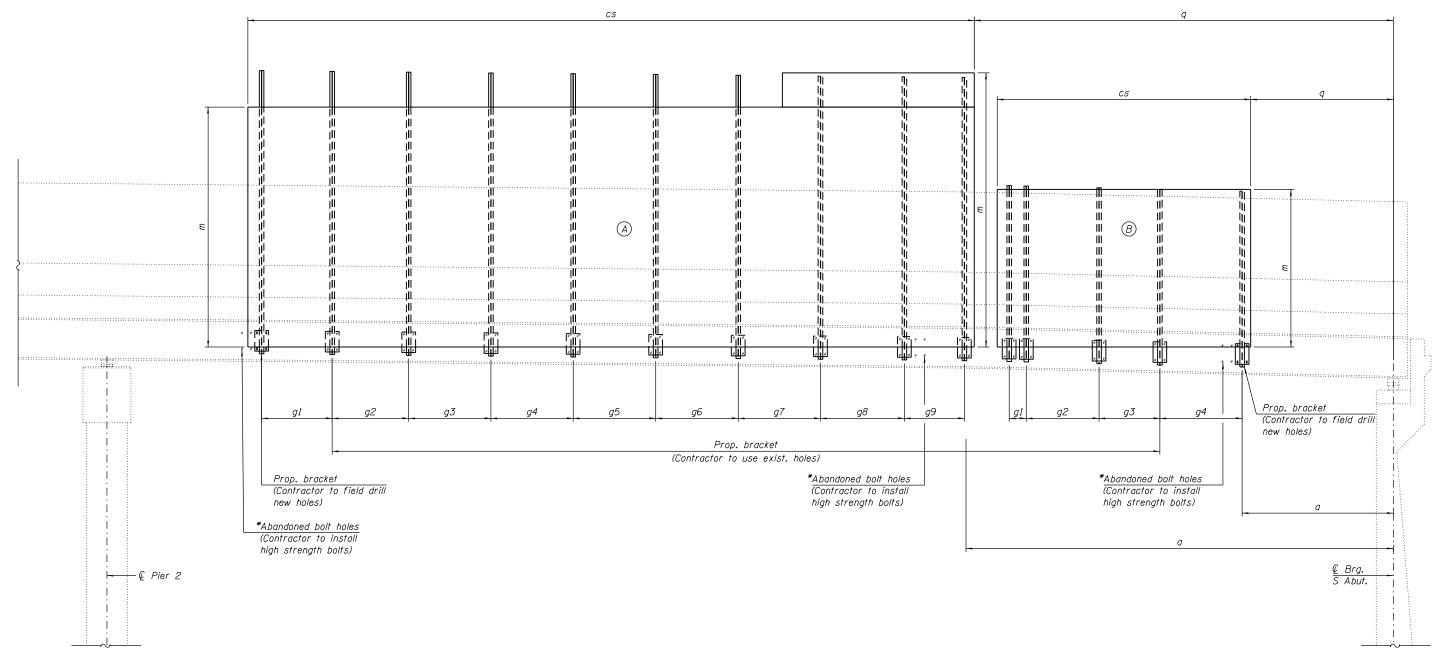
BRIDGE MOUNT SIGN STRUCTURES GENERAL PLAN AND ELEVATION SHEET NO. SS79 OF SS83 SHEETS

DR. MOUSSA A. ISSA. S.E., IL. LIC. NO. 081-005738

FOR SHEETS SS79 THRU SS83 (TOTAL OF 5 SHEETS)

EXPIRES 11-30-2020

SECTION COUNTY 2015-018R COOK 1360 758 CONTRACT NO. 62A77 ILLINOIS FED. AID PROJECT



* After bridge mounted sign brackets are removed, any open holes in existing fascia beams shall be filled with HS Bolts with washers. Bolts shall be 3/4" diameter ASTM A325, Type 1 hot-dipped galvanized. Cost shall be included with Remove Overhead Sign Structure.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project. Areas on the existing fascia beam where the bridge mounted sign brackets are removed shall be cleaned per Power Tool Cleaning to Bare Metal SSPC-SP-11 and painted as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures". All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. The color of the primer shall be Reddish Brown, Munsell No. 2.5YR 3/4. Cost shall be included with Remove Overhead Sign Structure.

ELEVATION - SN 1B0161094R050.1

West Fascia Girder of Ogden Avenue Bridge SN 016-2047 Looking Southeast

HBM ENGINEERING GROUP, LLC

USER NAME = ali,issa	DESIGNED -	AMS, LAB	REVISED -	
	CHECKED -	LAB, JJS	REVISED -	
PLOT SCALE = N.T.S	DRAWN -	AMS	REVISED -	
PLOT DATE = 1/23/2020	CHECKED -	LAB, JJS	REVISED -	

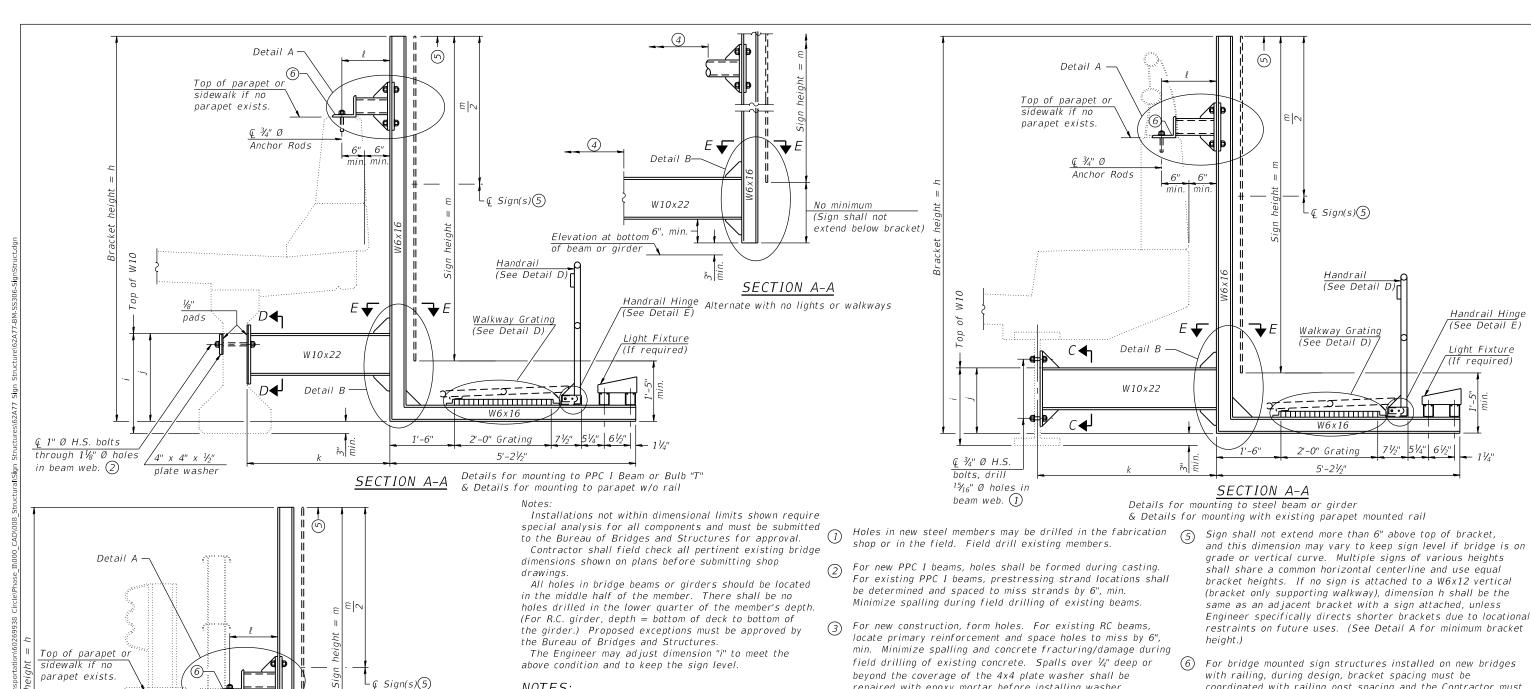
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNT SIGN STRUCTURES	F.A.I. RTE.	SEC	TION	
ELEVATION	90/94/290	2015	-018R	
SHEET NO. SS80 OF SS83 SHEETS			HILIMOIS	EED A

COUNTY

COOK 1360 759

CONTRACT NO. 62A77



beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.

For attachment details of $3\frac{1}{2}$ " pipe and W10x22, see other sections as applicable.

For Details A & B, Sections C-C, D-D and E-E, see Sheet SS82 For Details D & E, see Sheet SS83

with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to railing installation. For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during design that existing railings can't be removed, alternate upper connection details must be developed for the contract plans and approved by the Bureau of Bridges and Structures.

Structure Number	Bridge Name	Bridge Station	h	i	j	k max. (10'-0" max.)	I max. (8'-0" max.)	m
1B0161904R050.1A	Ogden Avenue	4+30.70	20'-8''	1'-11"	1'-4 1/2"	4'-2 1/2"	1'-7"	Varies from 17'-6" to 20'-0"

of Detail B Light Fixture Walkway Grating (See Detail D) (If required) W10x22 W6x16 71/2" 51/4" 61/2" 2'-0" Grating 3" min. 4" x 4" x 1/5" 5'-21/2" plate washer SECTION A-A ¢ 1" Ø H.S. bolts through 11/8" Ø holes Details for mounting to integral reinforced concrete girder & Details for mounting on safety curb with surface-mount bridge rail

Handrail

Handrail Hinge

(See Detail E)

(See Detail D)

NOTES:

REVISED -

REVISED -

REVISED -

REVISED -

panel will not be installed.

1. Walkway grating, walkway brackets, handrail, lighting,

and associated components of the sign structure/sign

BM-2-SPECIAL 2-17-2017 JSER NAME = ali_issa DESIGNED - CP, LAB CHECKED - LAB. JJS N.T.S PLOT DATE = 1/23/2020 CHECKED - LAB. JJS

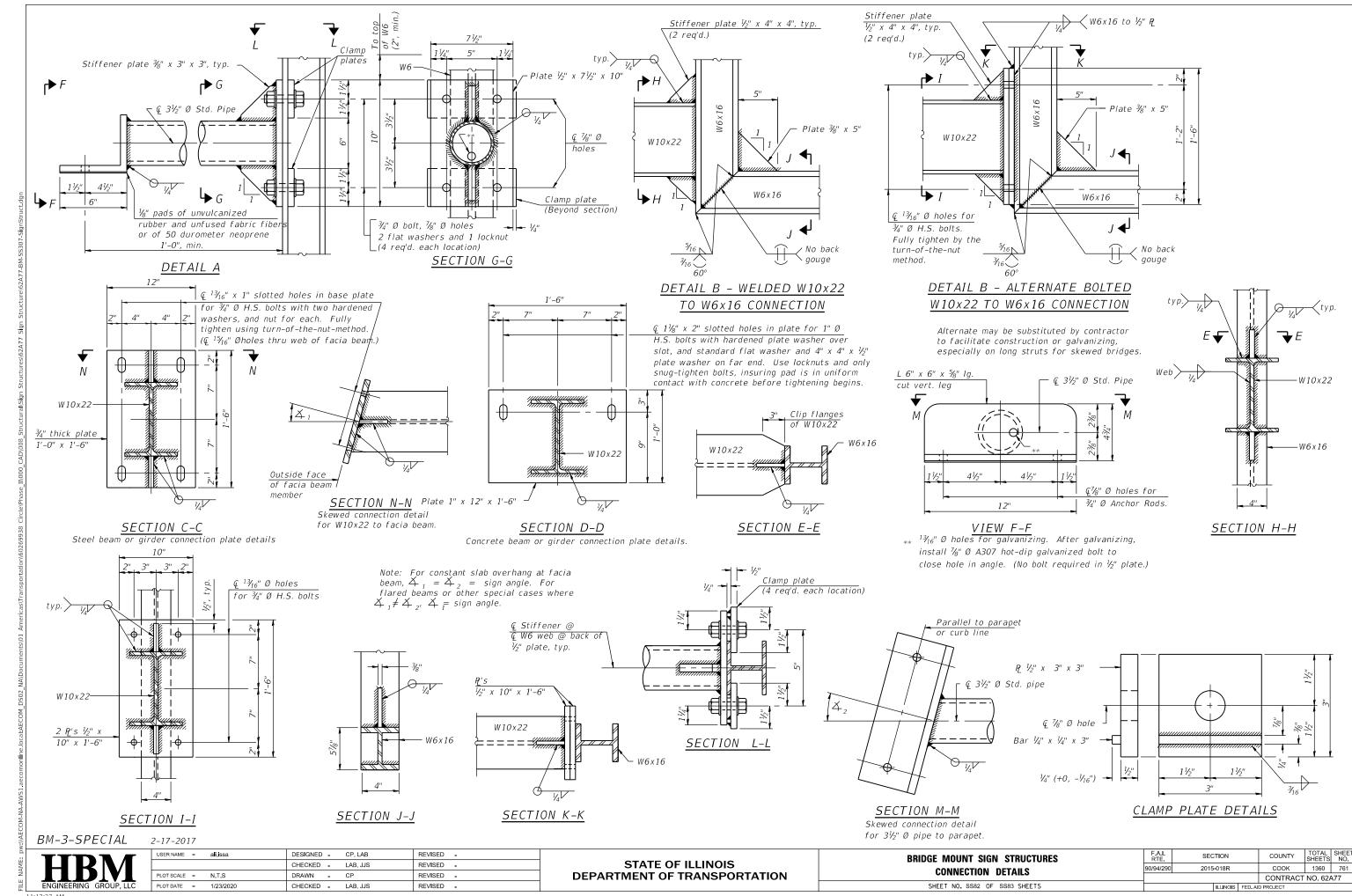
Q ¾" Ø

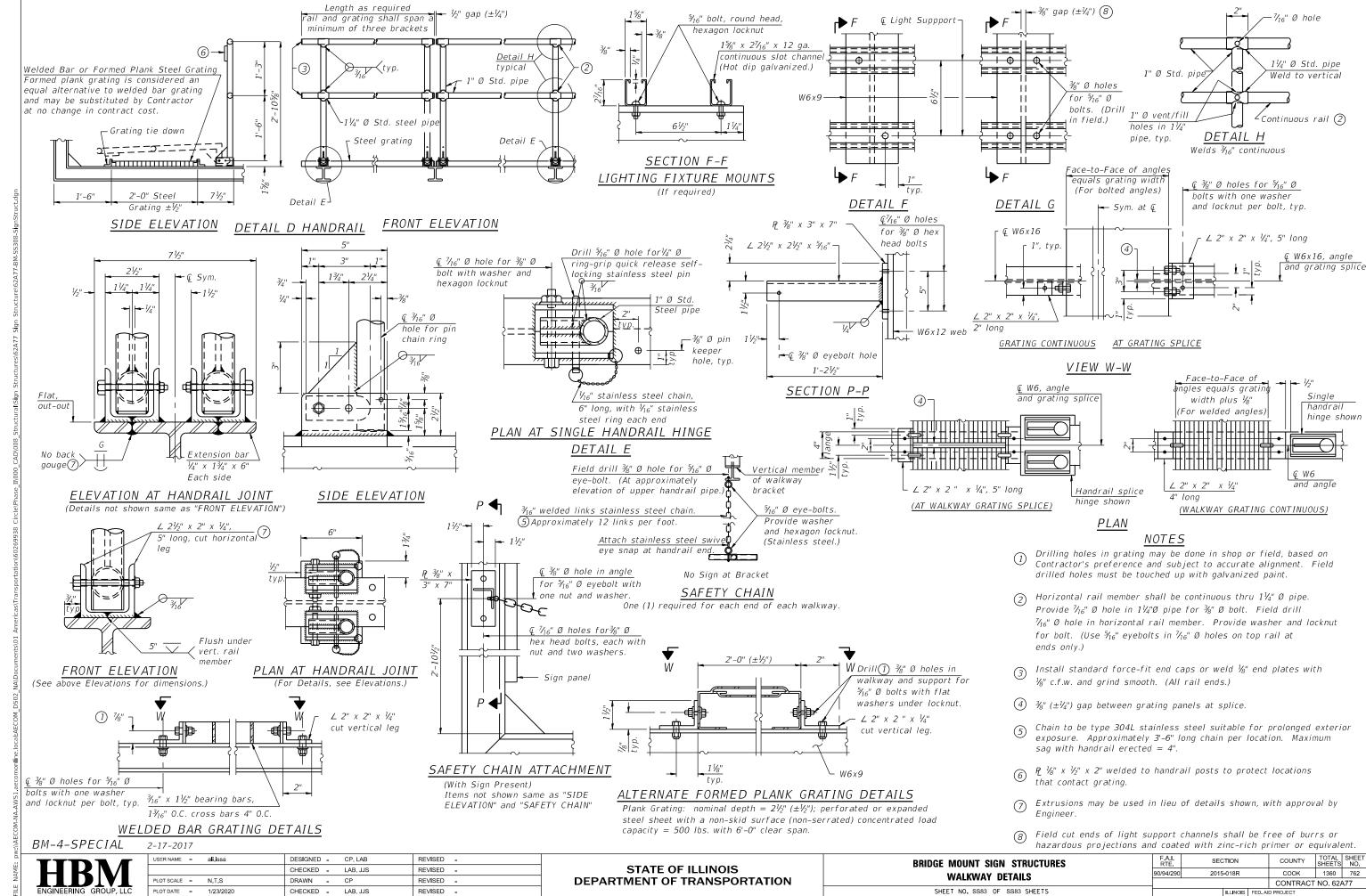
Anchor Rods min.

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY **BRIDGE MOUNT SIGN STRUCTURES** 90/94/290 2015-018R COOK 1360 760 WALKWAY AND CONNECTION DETAILS CONTRACT NO. 62A77 SHEET NO. SS81 OF SS83 SHEETS

W 10





TOTAL SHEET NO. 1360 763 F.A.I. RTE. SECTION STATE OF ILLINOIS FOR INDEX OF SHEETS AND STANDARDS SEE SHEET NO. 2 AND 3 90/94/290 2015-018R COOK ILLINOIS CONTRACT NO. 62A77 **DESIGN DESIGNATIONS:** POSTED /DESIGN SPEEDS: **DEPARTMENT OF TRANSPORTATION** PROJECT LOCATED IN CITY OF CHICAGO SB |-90/94 98,000(2040) INTERSTATE 23,000(2040) INTERSTATE RAMP 8,000(2040) INTERSTATE RAMP D-91-227-13 RAMP SW 35 /35 MPH SB TAYLOR EXIT RAMP 25 /25 MPH RAMP SE RAMP ES 5,000(2040) INTERSTATE RAMP 25 /25 MPH **PROPOSED** 43,000(2040) INTERSTATE RAMP 8,000(2040) INTERSTATE RAMP 40 /40 MPH LAKE RAMP WS 25 /25 MPH SB MADISON ENTRANCE RAMP SB JACKSON EXIT RAMP SB ADAMS EXIT RAMP 11,000(2040) INTERSTATE RAMP 30 /30 MPH 4,000(2040) INTERSTATE RAMP 5.000(2040) INTERSTATE RAMP 30 /30 MPH HIGHWAY PLANS MICHAEL J. EICHTEN, P.E. DATE REGISTERED PROFESSIONAL ENGINEER OF LICENSE EXPIRES 11 /30 /2021 LICENSE EXPIRES 11/30/2020 AT I-290/CONGRESS PARKWAY * SHEET RANGE: 1-148, 162-533, 556-565 (JANE BYRNE INTERCHANGE) 614-627, 763-764, 986-1360 SCHAUMBURG, ILLINOIS SOUTHBOUND 1-90/94 FROM ROOSEVELT RD TO LAKE ST/MADISON ST ANNIFER M. GOLEMBA P.E. DATE

JOSEPH BOLEMBA MOUSSA A. ISSA, S.E. DATE LICENSE EXPIRES 11/30/2020 MOUSSA A. ISSA 062-05870 **SECTION 2015-018R** LICENSED PROFESSIONAL ENGINEER OF 081-005738 SHEET RANGE: PROJECT: NHPP-FB4M(631) 380-527, 555, 628-679 680-688, 691-699, 703-714 COLCS **RECONSTRUCTION.** NPDES PERMIT INFORMATION 743-762, 863-866, 897-900 RAMP MODIFICATIONS, NPDES Disturbed 15.94 **RETAINING WALL** AMISH T. BHATT, P.E., S.E. SERVICES: BRIAN KUTTAB, P.E. (847)705-4431 MATTHEW J. LETOURNEAU, P.E. UCENSE EXPIRES 11 /30 /2021 LICENSE EXPIRES 11/30/2020 87° 39' 6" W SHEET RANGE: SHEET RANGE: 149-156A **COOK COUNTY** 081-00624 790-835 41° 52' 32" N C-91-311-15 R 14 E WILLIAM D. STERMER, P.E. C LICENSE EXPIRES 11/30/2021 ROBERT L PETERS ROBERT L. PETERS, S.E. DI LICENSE EXPIRES 11/30/2020 DATE SHEET RANGE: 765-789 81-004697 SHEET RANGE: 553-554 LOCATION OF SECTION INDICATED THUS: -**SB MADISON STREET** SB I-90/94 RESURFACING LIMIT **ENTRANCE RAMP** STA 6166+84.49 TO STA 6202+91.11 STA 8562 + 04.25 STA 8564 + 43.34 SB I-90/94 PROJECT LIMIT BEGIN STA 6202+91.11 RETAINING WALL 34 SN 016-1823 EX RETAINING WALL 50 SN 016-1189 STA 8562+04.25 TO /CONSULTANT STA 6203 + 23.74 TO STA 6206 + 17.14 STATE OF ILLINOIS STA 8563 + 33.33 DEPARTMENT OF TRANSPORTATION ADAMS ST EXIT RAMP PROJECT LIMIT STA 8380 + 00.00 TO STA 8383 + 45.00 JACKSON BLVD **EXIT RAMP** ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT RAMP SW PROJECT LIMIT PROJECT LIMIT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS STA 1300 + 00.00 TO STA 1315 + 34.11 STA 8280 + 00.00 TO DESIGN ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED. STA 8281 + 91.96 DRYLAND BRIDGE OVER CTA TUNNELS SN 016-D006 C.U.A.N. ENGINEER OF DESIGN AND ENVIRONMENT CHICAGO ULITITY ALERT NETWORK STA 6224+48.04 TO STA 6225+06.31 **EX RETAINING WALL 5** 1-312-744-7000 • SN 016-1164 **RAMP ES PROJECT LIMIT** DISTRICT STA 6229 + 40.59 TO STA 1513+60.00 TO STA 1516+78.79 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION STA 6233 + 17.00 **RAMP WS PROJECT LIMIT** PROJECT MANAGER: BRIAN KUTTAB, P.E. STA 1234 + 00.00 TO STA 1245 + 86.14 PRINTED BY THE AUTHORITY LOCATION MAP VOLUME II OF THE STATE OF ILLINOIS NOT TO SCALE SB I-90/94 PROJECT LIMIT CONTRACT NO. 62A77 GROSS LENGTH = 8,410.51 FT (1,594 MILES) END STA 6250 + 95.00 NET LENGTH = 8,410.51 FT (1.594 MILES)

0

0

0

0

PLOT DATE: 1/10/2020

INDEX OF SHEETS - VOLUME 2 INDEX OF SHEETS — VOLUME 1 COVER SHEET - VOLUME 1 763 COVER SHEET - VOLUME 2 2-3 INDEX OF DRAWINGS, HIGHWAY STANDARDS, DISTRICT 1 AND COMMITMENTS 764 INDEX OF DRAWINGS AND HIGHWAY STANDARDS GENERAL NOTES 765-789 LIGHTING PLANS AND DETAILS 5-31B SUMMARY OF QUANTITIES (INCLUDING SHEET NO. 314-31B) 790-835 ITS PLAN AND DETAILS PROPOSED RETAINING WALL 34 (SN 016-1823) 32-50 TYPICAL SECTIONS 836-862 51-58 SCHEDULE OF QUANTITIES 863-896 EXISTING RETAINING WALL 5 (SN 016-1164) 59-70 ALIGNMENT, TIES, AND BENCHMARKS 897-942 EXISTING RETAINING WALL 50 (SN 016-1189) 71 ROADWAY RESURFACING KEY PLAN 943-973 DISTRICT 1 DETAILS (INCLUDING SHEET NO. 967A) 72 ROADWAY KEY PLAN IDOT TRAFFIC SYSTEMS CENTER STANDARD DRAWINGS 974-985 73-83 REMOVAL PLAN 986-1360 CROSS SECTIONS - SB I-90/94 MAINLINE, HIGH MAST LIGHTING, AND ITS 84-90 FOUNDATION OBSTRUCTIONS AND SCHEDULE 91-100 ROADWAY RESURFACING PLAN AND SCHEDULE 101-111 ROADWAY PLAN **HIGHWAY STANDARDS** 112-121 ROADWAY PROFILE 122-131 PAVEMENT ELEVATION AND SUPERELEVATION DETAILS 000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS 132-141A JOINTING PLANS (INCLUDING SHEET NO. 141A) 001001-02 AREAS OF REINFORCEMENT BARS 142-148 GORE GRADING DETAILS 001006 DECIMAL OF AN INCH AND OF A FOOT 149-160 STRUCTURAL SLAB (SN 016-D006) (INCLUDING SHEET NO. 156A) TEMPORARY FROSION CONTROL SYSTEMS 280001-07 161 OMITTED SHEET NO. 161 420001-09 PAVEMENT JOINTS 162-205C CONCRETE BARRIER AND ROADWAY DETAILS (INCLUDING SHEET NO. 167A, 199A, 201A, 205A-205C) 24' (7.2 M) JOINTED PCC PAVEMENT 420101-06 SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - GENERAL NOTES 206 36' (10.8 M) JOINTED PCC PAVEMENT 420106-06 207-209 SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - SCHEDULE PCC PAVEMENT ROUNDOUTS 420111-04 SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - NARRATIVE 210-214 ENTRANCE RAMP TERMINAL (JOINTED PCC RAMP PAVEMENT ADJACENT TO CRC MAINLINE PAVEMENT) 420206-12 215-248 SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - TYPICAL SECTIONS 420301-08 EXIT RAMP TERMINAL (JOINTED PCC RAMP PAVEMENT ADJACENT TO JOINTED PCC MAINLINE PAVE.) 249-254 SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - TEMPORARY PAVEMENT 420401-13 PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - DETOUR AND TEMPORARY INFORMATION SIGNING 255-266 420701-03 PAVEMENT WELDED WIRE REINFORCEMENT SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - TEMPORARY INFORMATION SIGNING 267-268 421001-03 BAR REINFORCEMENT FOR CRC PAVEMENT 269-279 SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - SB I-90/94 STAGE PRE-STAGE 36' (10.8 M) CRC PAVEMENT (WITH LUG SYSTEM) 421206-07 280-292 SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - SB I-90/94 STAGE 1A 442001-04 CLASS A PATCHES SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - SB I-90/94 STAGE 1B 293-300 PCC SHOULDER 483001-05 301-308 SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - SB I-90/94 STAGE 1C 515001-03 NAME PLATE FOR BRIDGES SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - SB I-90/94 STAGE 1D 309-316 601001-05 PIPE UNDERDRAINS 317-326 SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - SB I-90/94 STAGE 2 602001-02 CATCH BASIN TYPE A 327-334 SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - SB I-90/94 STAGE 3A 602301-04 INIFT - TYPF A 335-345 SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - SB I-90/94 STAGE 3B 602401-05 PRECAST MANHOLE, TYPE A, 4' (1.22 M) DIAMETER 346-353 SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - SB I-90/94 STAGE 3C 602402-01 PRECAST MANHOLE, TYPE A, 5' (1.52 M) DIAMETER SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - SB I-90/94 STAGE 4 354 - 361 602406-09 PRECAST MANHOLE, TYPE A, 6' (1.83 M) DIAMETER 362-369 SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - SB I-90/94 STAGE 5 PRECAST MANHOLE, TYPE A, 7' (2.13 M) DIAMETER 602411-07 SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - SB I-90/94 STAGE 6 370 - 377 602416-07 PRECAST MANHOLE, TYPE A, 8' (2.44 M) DIAMETER SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN - MADISON ST 378 602421-07 PRECAST MANHOLE, TYPE A, 9' (2.74 M) DIAMETER EROSION CONTROL GENERAL NOTES 379 602601-06 PRECAST REINFORCED CONCRETE FLAT SLAB TOP 380-384 EROSION CONTROL SCHEDULE (OMITTED SHEET NO. 384) 602701-02 MANHOLE STEPS 385-438 EROSION AND SEDIMENTATION CONTROL PLAN - SB I-90/94 (STAGES 1A TO 6) 604001-04 FRAME AND LIDS TYPE 1 439 EROSION AND SEDIMENTATION CONTROL PLAN - DETAILS 604036-03 GRATE TYPE 8 440-445 PERMANENT EROSION AND SEDIMENTATION CONTROL PLAN 604046-03 FRAME AND GRATE TYPE 10 446-484A DRAINAGE AND UTILITY SCHEDULES 604071-05 FRAME AND GRATE TYPE 20 485-495 EXISTING DRAINAGE AND UTILITY PLAN FRAME AND GRATE TYPE 24 604091-03 496-506 PROPOSED DRAINAGE AND UTILITY PLAN 606001-07 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER 507-517 PROPOSED SUBSURFACE DRAINAGE PLAN TYPE A GUTTER (INLET, OUTLET, AND ENTRANCE) 606101-05 518-527 DRAINAGE AND UTILITY PROFILE 606201-04 TYPE B GUTTER (INLET, OUTLET, AND ENTRANCE) 528-533 DETENTION STORAGE TANK - ACCIDENT INVESTIGATION SITE (INCLUDING SHEET NO. 531A) DEL INFATORS 635001-02 534-552 BORING LOGS 642001-02 SHOULDER RUMBLE STRIPS, 16 INCH APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY 553-557 DRAINAGE DETAILS 701400-09 IN-FIELD GRADING PLAN (OMITTED SHEET NO. 566) LANE CLOSURE, FREEWAY/EXPRESSWAY 558-566 701401-10 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH 701411-09 567-580 EXISTING MAIN DRAIN PLANS TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY 580A-580B EXISTING JUNCTION CHAMBER PLANS 701428-01 701446-08 TWO LANE CLOSURE, EREEWAY/EXPRESSWAY 580C EXISTING CDWM SEWER ATLAS TRAFFIC CONTROL DEVICES 581-591 EXISTING WATER MAIN PLANS 701901-08 704001-08 TEMPORARY CONCRETE BARRIER EXISTING PUMP STATION #26 PLANS 592-597 SIGN PANEL MOUNTING DETAILS EXISTING WATER TUNNEL PLANS (INCLUDING SHEET NO. 598A) 720001-01 598-599 720006-04 SIGN PANEL ERECTION DETAILS 599A-599C EXISTING POLK STREET BRIDGE FOUNDATIONS 725001-01 OBJECT AND TERMINAL MARKERS 600-613 LITTLITY LOCATION PLANS (SUF) 728001-01 TELESCOPING STEEL SIGN SUPPORT 614 PAVEMENT MARKING SCHEDULE 729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS) 614A-627 PAVEMENT MARKING PLAN SIGNING SCHEDULE 780001-05 TYPICAL PAVEMENT MARKINGS 628-631 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS 781001-04 632-640 SIGNING PLAN GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS 782006 SIGN PANEL DETAILS 641-664

AECOM
303 EAST WACKER DRIVE. SUITE 1400 CHICAGO. IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800

665-679 680-762

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PLOT DATE = 1/31/2020	DATE - 1/29/2019	REVISED -

OVERHEAD SIGN STRUCTURES - SIGN PANEL PLACEMENT

OVERHEAD SIGN STRUCTURES - DETAILS

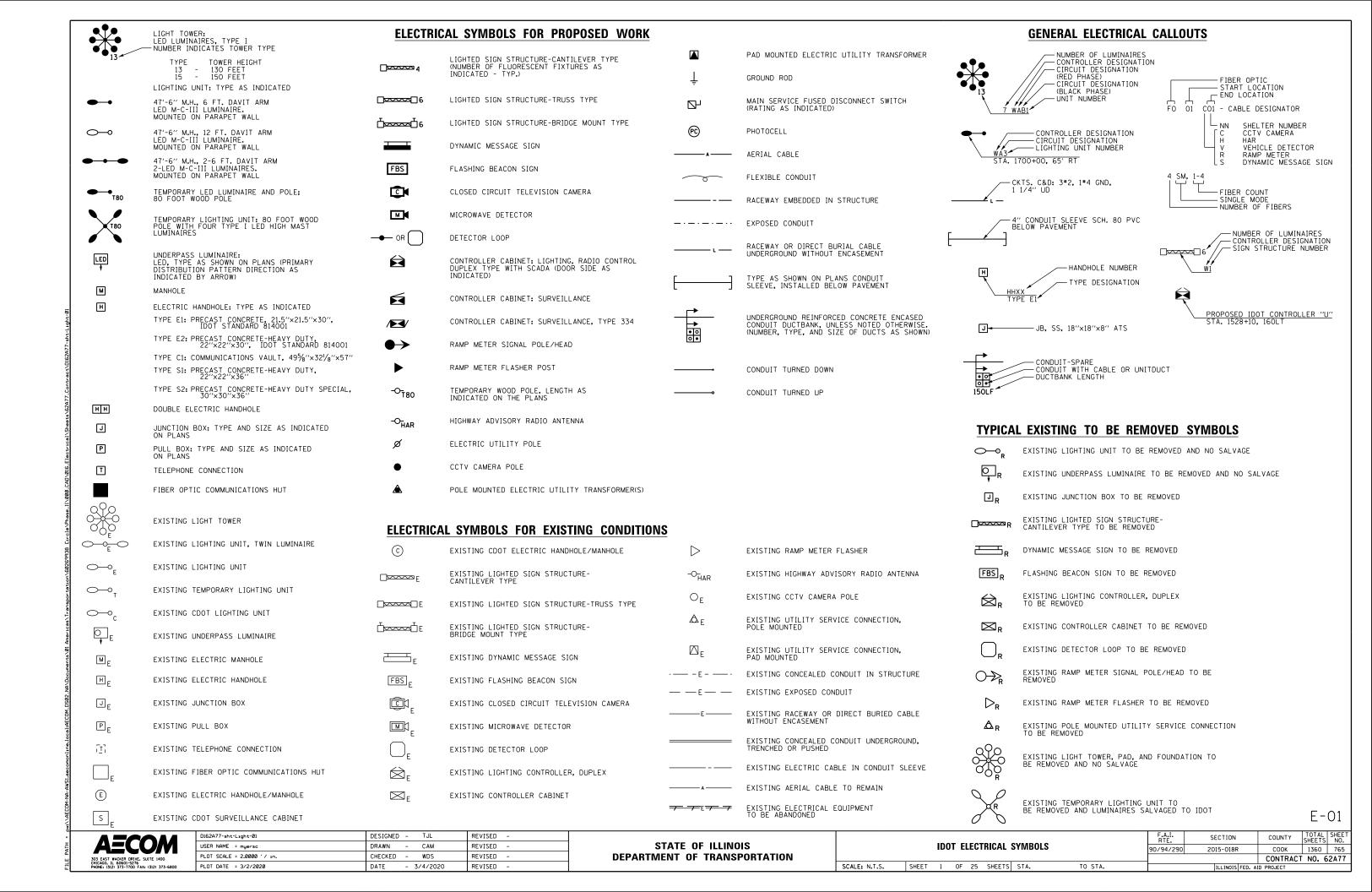
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DEPARTMENT	0F	TRANSPORTATION

814001-03

HANDHOLES

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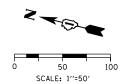
INDEX OF DRAWINGS AND HIGHWAY STANDARDS		F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.						
		90/94/290	2015-018R		COOK	1360	764						
											CONTRACT	NO. 6	62A77
	SHEET	1	OF	1	SHEETS	STA.	TO STA.		ILLINOIS	FED. AI	D PROJECT		



NOTES

- 1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
- 2. THE EXISTING ELECTRICAL SYSTEMS, AS DEPICTED ON THE PLANS, ARE INTENDED TO INDICATE THE GENERAL EQUIPMENT INSTALLATIONS INVOLVED AND SHALL NOT BE CONSTRUED AS AN EXACT REPRESENTATION OF THE FIELD CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM AND ASCERTAIN THE EXACT CONDITION, SIZE, TYPE, QUANTITY AND LOCATION OF THE EXISTING ELECTRICAL EQUIPMENT. ANY DISCREPANCIES BETWEEN THE ACTUAL EXISTING ELECTRICAL EQUIPMENT IN THE FIELD AND THE DEPICTION OF THE EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER FOR RESOLUTION, FAILURE TO VERIFY THE CONDITIONS, DIMENSIONS AND DETAILS OF THE EXISTING ELECTRICAL EQUIPMENT TO CONFIRM THAT THE NEW EQUIPMENT IS COMPATIBLE WITH THE EXISTING EQUIPMENT AND CAN BE PROPERLY INSTALLED AND CONNECTED AS SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROVIDING A SAFE, COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.





NO WORK SHOWN ON THIS SHEET

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

٦	D162A77-SHT-Light-02	DESIGNED - TJL	REVISED -
	USER NAME = myersc	DRAWN - CAM	REVISED -
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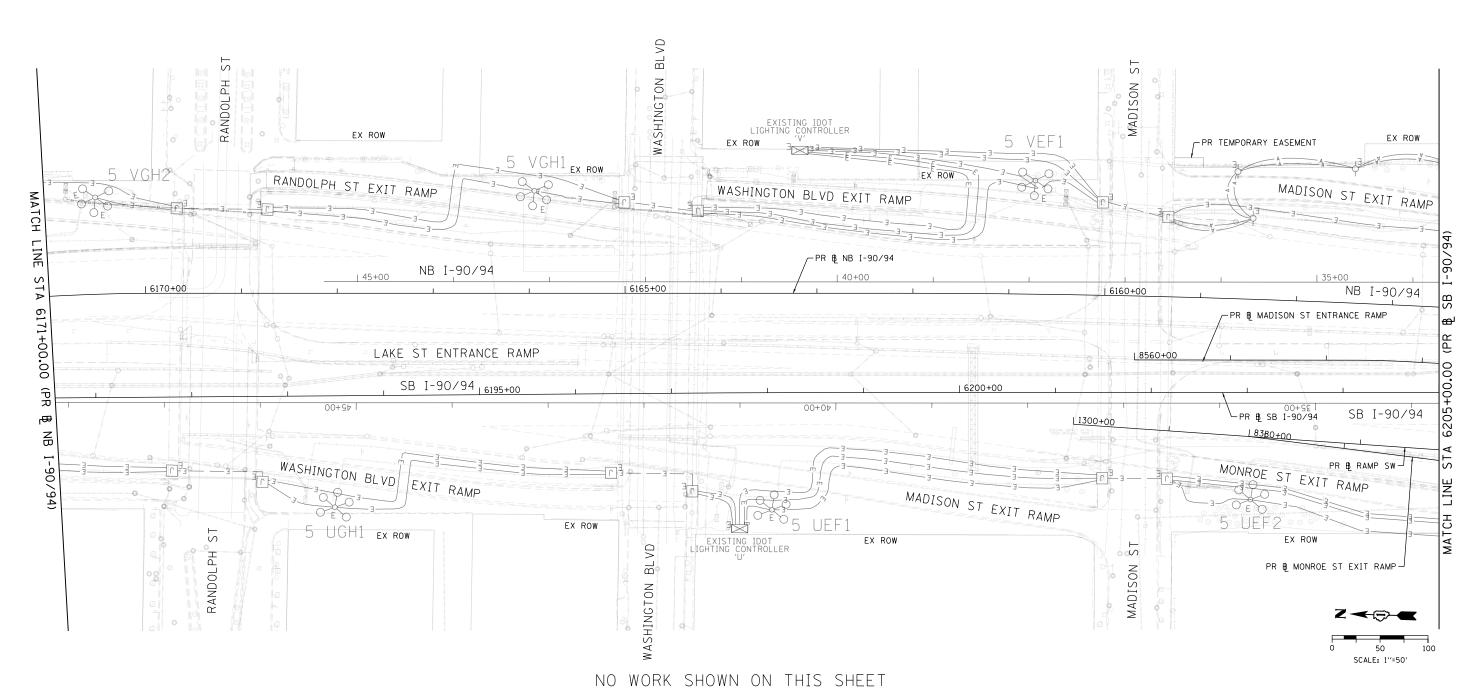
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	EXISTING LIGHTING PLAN										
SB I-90/94											
3D 1-3V 34											
SCALE: 1"=50"	SHEET	2	OF	25	SHEETS	STA.	TO STA. 6171+00 (NB)	Ξ			

E-02

NOTES

- 1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
- 2. THE EXISTING ELECTRICAL SYSTEMS, AS DEPICTED ON THE PLANS, ARE INTENDED TO INDICATE THE GENERAL EQUIPMENT INSTALLATIONS INVOLVED AND SHALL NOT BE CONSTRUED AS AN EXACT REPRESENTATION OF THE FIELD CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM AND ASCERTAIN THE EXACT CONDITION, SIZE, TYPE, QUANTITY AND LOCATION OF THE EXISTING ELECTRICAL EQUIPMENT. ANY DISCREPANCIES BETWEEN THE ACTUAL EXISTING ELECTRICAL EQUIPMENT IN THE FIELD AND THE DEPICTION OF THE EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER FOR RESOLUTION. FAILURE TO VERIFY THE CONDITIONS, DIMENSIONS AND DETAILS OF THE EXISTING ELECTRICAL EQUIPMENT TO CONFIRM THAT THE NEW EQUIPMENT IS COMPATIBLE WITH THE EXISTING EQUIPMENT AND CAN BE PROPERLY INSTALLED AND CONNECTED AS SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROVIDING A SAFE, COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.



AECOM

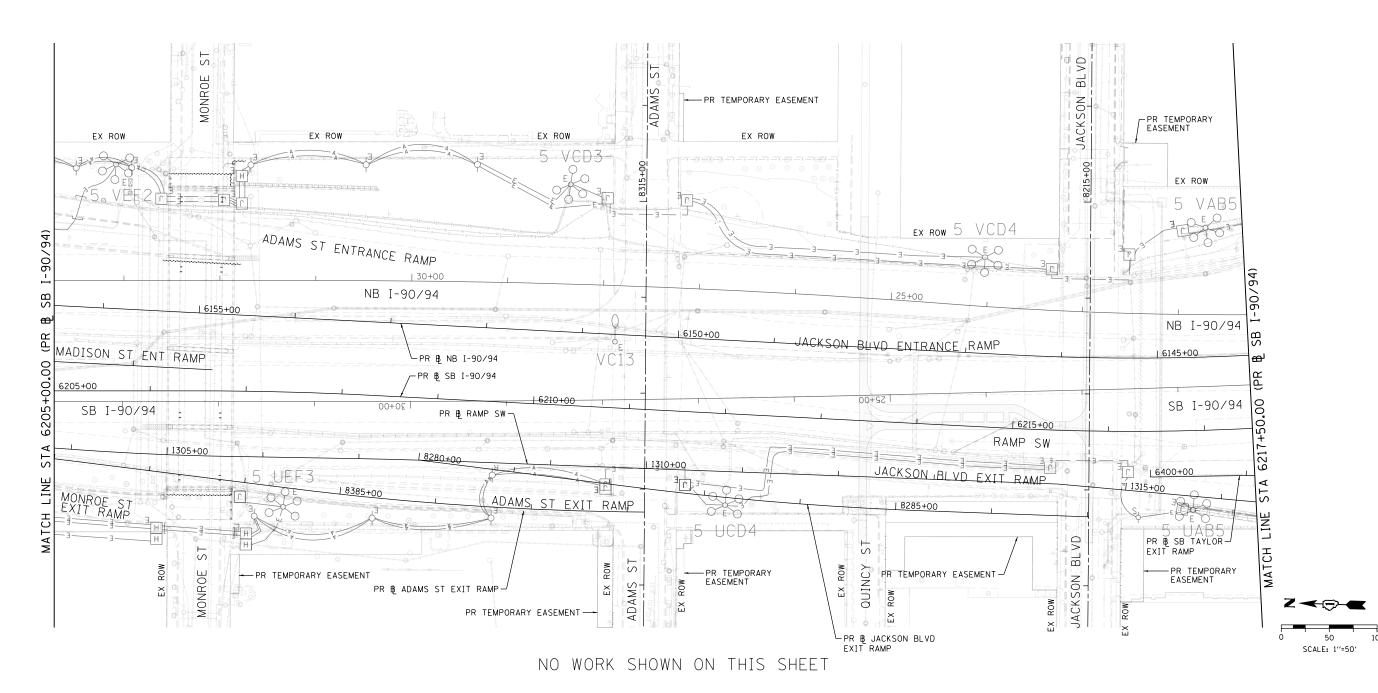
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 66601-5276
PHONE (13) 373-7700 FAX; (3)2) 373-6800

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOTE:

- 1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
- 2. THE EXISTING ELECTRICAL SYSTEMS, AS DEPICTED ON THE PLANS, ARE INTENDED TO INDICATE THE GENERAL EQUIPMENT INSTALLATIONS INVOLVED AND SHALL NOT BE CONSTRUED AS AN EXACT REPRESENTATION OF THE FIELD CONDITIONS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM AND ASCERTAIN THE EXACT CONDITION, SIZE, TYPE, QUANTITY AND LOCATION OF THE EXISTING ELECTRICAL EQUIPMENT. ANY DISCREPANCIES BETWEEN THE ACTUAL EXISTING ELECTRICAL EQUIPMENT IN THE FIELD AND THE DEPICTION OF THE EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER FOR RESOLUTION, FAILURE TO VERIFY THE CONDITIONS, DIMENSIONS AND DETAILS OF THE EXISTING ELECTRICAL EQUIPMENT TO CONFIRM THAT THE NEW EQUIPMENT IS COMPATIBLE WITH THE EXISTING EQUIPMENT AND CAN BE PROPERLY INSTALLED AND CONNECTED AS SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROVIDING A SAFE, COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.

E-04



D162A77-SHT-Light-04 DESIGNED -TJL REVISED F.A.I. RTE. SECTION COUNTY **EXISTING LIGHTING PLAN** STATE OF ILLINOIS USER NAME = myersc DRAWN CAM REVISED COOK 1360 768 90/94/290 2015-018R SB I-90/94 PLOT SCALE = 100.0000 '/ in. CHECKED - WDS REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 62A77 SCALE: 1"=50" SHEET 4 OF 25 SHEETS STA. 6205+00(SB) TO STA. 6217+50(SB) PLOT DATE = 1/23/2020 DATE REVISED - 1/29/2019

NOTES:

a<u>ecom</u>

USER NAME = myersc

PLOT DATE = 3/2/2020

PLOT SCALE = 100.0000 '/ 10.

- 1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
- 2. THE EXISTING ELECTRICAL SYSTEMS, AS DEPICTED ON THE PLANS, ARE INTENDED TO INDICATE THE GENERAL EQUIPMENT INSTALLATIONS INVOLVED AND SHALL NOT BE CONSTRUED AS AN EXACT REPRESENTATION OF THE FIELD CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM AND ASCERTAIN THE EXACT CONDITION, SIZE, TYPE, QUANTITY AND LOCATION OF THE EXISTING ELECTRICAL EQUIPMENT. ANY DISCREPANCIES BETWEEN THE ACTUAL EXISTING ELECTRICAL EQUIPMENT IN THE FIELD AND THE DEPICTION OF THE EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER FOR RESOLUTION. FAILURE TO VERIFY THE CONDITIONS, DIMENSIONS AND DETAILS OF THE EXISTING ELECTRICAL EQUIPMENT TO CONFIRM THAT THE NEW EQUIPMENT IS COMPATIBLE WITH THE EXISTING EQUIPMENT AND CAN BE PROPERLY INSTALLED AND CONNECTED AS SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROVIDING A SAFE,

DESIGNED -

CHECKED -

DRAWN

DATE

TJL

CAM

WDS

- 3/4/2020

REVISED

REVISED

REVISED

- 3. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
- 4. IDOT CONTRACTS 60X94, 62A76, 62A77 AND 60YOO WILL BE ONGOING SIMULTANEOUSLY WITH THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL ELECTRICAL WORK FOR THIS CONTRACT WITH THE WORK IN THOSE CONTRACTS. THIS COORDINATION WORK SHALL BE INCLUDED AT NO ADDITIONAL COST TO THIS
- 5. ALL OF THE EXISTING LIGHTING UNITS AND LIGHTING CIRCUITS CURRENTLY FED FROM EXISTING IDOT LIGHTING CONTROLLERS SHALL REMAIN ENERGIZED DURING NIGHTTIME HOURS FOR THE DURATION OF THE CONTRACT. ANY TEMPORARY POWER REQUIRED TO KEEP THE LIGHTING SYSTEM ENERGIZED WILL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
- 6. THE CONDUIT SLEEVE SHALL BE INSTALLED AT A DEPTH THAT IS BELOW THE PROPOSED SB I-90/94 CONCRETE PAVEMENT, SUBBASE, AGGREGATE SUBGRADE AND UNDERDRAIN. SEE "DETAIL A" ON DRAWING E-22 FOR THE ELEVATION VIEW OF THE PROPOSED CONDUIT SLEEVE
- 7. ALL EXISTING LIGHT TOWERS SHOWN TO BE REMOVED SHALL BE DISPOSED OF PROPERLY OFFSITE.
- 8. REMOVE THE EXISTING LIGHTING CIRCUIT CABLES FOR CIRCUITS ZA AND ZB FROM THE EXISTING CONDUIT SLEEVE LOCATED UNDER NB I-90/94. ROD AND CLEAN THE CONDUIT SLEEVE PRIOR TO INSTALLING THE PROPOSED CABLES SHOWN ON THIS DRAWING.
- 9. PRIOR TO ROUTING THE PROPOSED UNIT DUCT INTO THE BASE OF EXISTING LIGHT TOWER 5 ZAB1 PROVIDE AN ADDITIONAL 75 FEET OF SLACK ADJACENT TO THE LIGHT TOWER TO ALLOW FOR THE RELOCATION OF THE UNIT DUCT AS SHOWN ON DRAWING E-12. THE UNIT DUCT SHALL BE PROTECTED THROUGHOUT CONSTRUCTION AND ANY DAMAGE INCURRED TO THE UNIT DUCT SHALL BE IMMEDIATELY REPLACED IN KIND AT NO COST TO THE CONTRACT.
- 10. DISCONNECT AND ABANDON EXISTING LIGHTING CIRCUITS ZA AND ZB BETWEEN EXISTING IDOT LIGHTING CONTROLLER 'Z' AND EXISTING TOWER 5 ZAB1 PRIOR TO INSTALLING PROPOSED CIRCUITS ZA AND ZB UNLESS OTHERWISE NOTED.

F.A.I. RTE.

90/94/290

EXISTING LIGHTING PLAN

SB I-90/94

SHEET 5 OF 25 SHEETS STA.6217+50(SB) TO STA.6230+00(SB)

SCALE: 1"=50"

SECTION

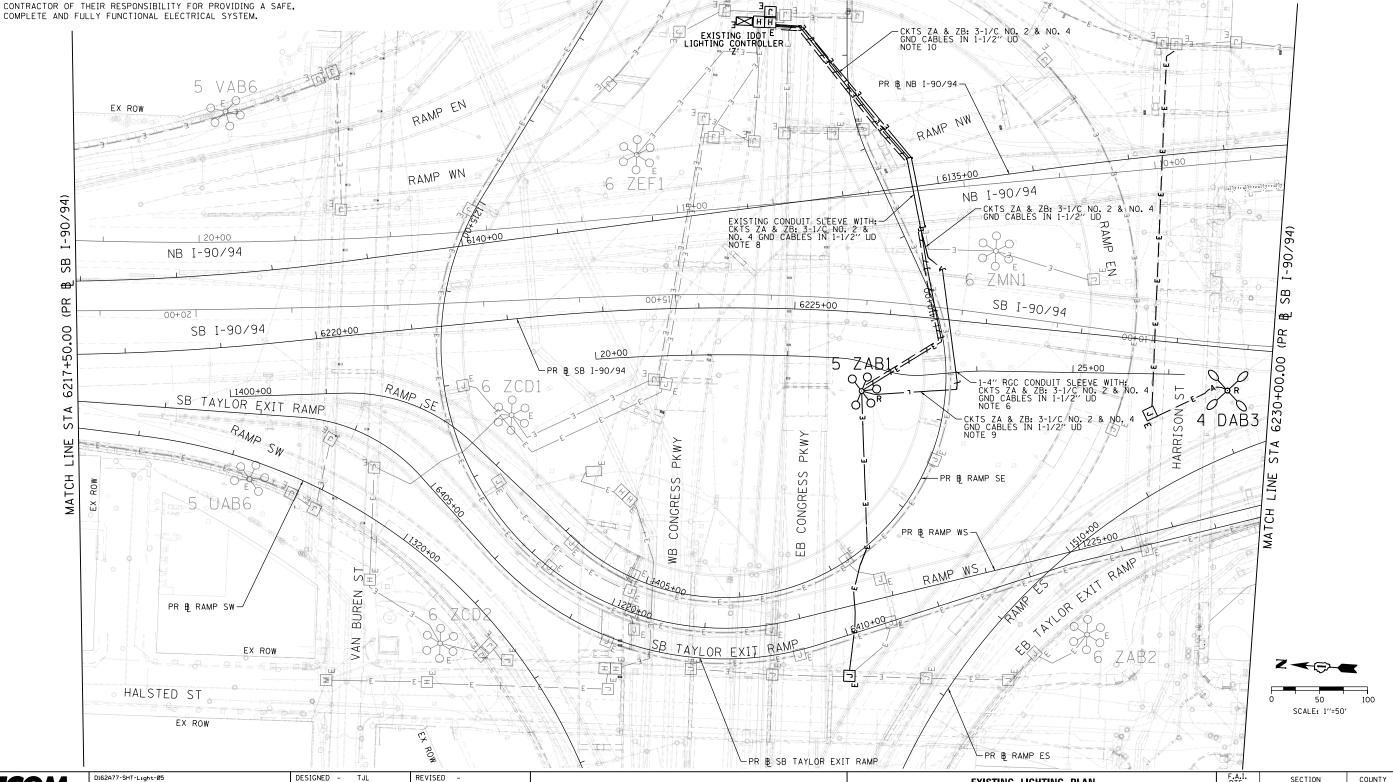
2015-018R

E-05

COOK 1360 769

CONTRACT NO. 62A77

COUNTY



STATE OF ILLINOIS

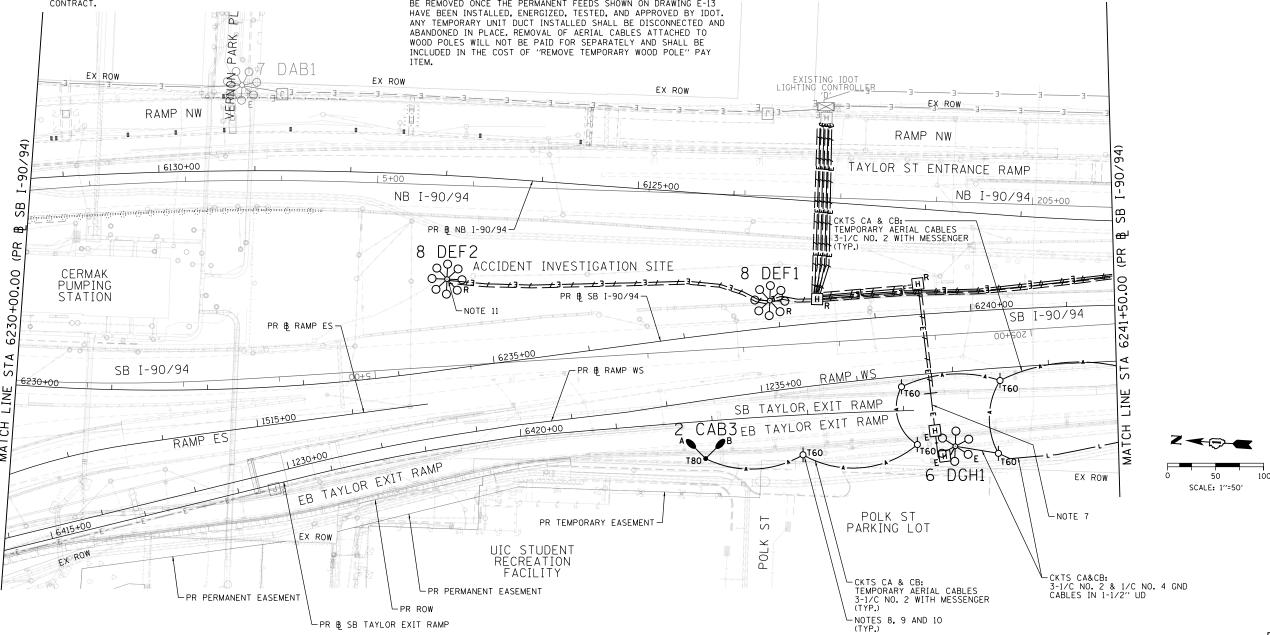
DEPARTMENT OF TRANSPORTATION

NOTES:

- 1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
- 2. THE EXISTING ELECTRICAL SYSTEMS, AS DEPICTED ON THE PLANS, ARE INTENDED TO INDICATE THE GENERAL EQUIPMENT INSTALLATIONS INVOLVED AND SHALL NOT BE CONSTRUED AS AN EXACT REPRESENTATION OF THE FIELD CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM AND ASCERTAIN THE EXACT CONDITION. SIZE, TYPE, QUANTITY AND LOCATION OF THE EXISTING ELECTRICAL EQUIPMENT. ANY DISCREPANCIES BETWEEN THE ACTUAL EXISTING ELECTRICAL EQUIPMENT IN THE FIELD AND THE DEPICTION OF THE EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER FOR RESOLUTION. FAILURE TO VERIFY THE CONDITIONS, DIMENSIONS AND DETAILS OF THE EXISTING ELECTRICAL EQUIPMENT TO CONFIRM THAT THE NEW EQUIPMENT IS COMPATIBLE WITH THE EXISTING EQUIPMENT AND CAN BE PROPERLY INSTALLED AND CONNECTED AS SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROVIDING A SAFE, COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.
- 3. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
- 4. IDOT CONTRACTS 60X94, 62A76, 62A77 AND 60YOO WILL BE ONGOING SIMULTANEOUSLY WITH THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL ELECTRICAL WORK FOR THIS CONTRACT WITH THE WORK IN THOSE CONTRACTS. THIS COORDINATION WORK SHALL BE INCLUDED AT NO ADDITIONAL COST TO THIS CONTRACT.

- 5. ALL OF THE EXISTING LIGHTING UNITS AND LIGHTING CIRCUITS CURRENTLY FED FROM EXISTING IDOT LIGHTING CONTROLLERS SHALL REMAIN ENERGIZED DURING NIGHTTIME HOURS FOR THE DURATION OF THE CONTRACT. ANY TEMPORARY POWER REQUIRED TO KEEP THE LIGHTING SYSTEM ENERGIZED WILL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
- 6. ALL EXISTING LIGHT TOWERS SHOWN TO BE REMOVED SHALL BE DISPOSED OF PROPERLY OFFSITE.
- 7. CUT THE EXISTING CONDUITS IN THE GORE AREA BETWEEN THE TAYLOR EXIT RAMP AND SOUTHBOUND I-90/94. REMOVE THE EXISTING CABLES ROUTED IN THE CONDUIT TO LIGHT TOWER 6 DGH1 LOCATED ON EXISTING RETAINING WALL #12 AND ROD AND CLEAN THE EXISTING
- 8. THE LOCATIONS OF THE WOOD POLES SHOWN ARE APPROXIMATIONS. THE FINAL INSTALLATION LOCATION OF THE POLE SHALL BE STAKED IN THE FIELD AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION TO IDENTIFY ANY CONFLICTS WITH EXISTING/PROPOSED UTILITIES AND WORK TO BE PERFORMED BY OTHER DISCIPLINES.
- 9. PROVIDE 50 FEET OF SLACK CABLE AT EACH TEMPORARY WOOD POLE TO ALLOW FOR RELOCATION OF AERIAL CABLES DURING THE DIFFERENT STAGES OF CONSTRUCTION.
- 10. THE TEMPORARY WOOD POLES AND ASSOCIATED AERIAL CABLES SHALL BE REMOVED ONCE THE PERMANENT FEEDS SHOWN ON DRAWING E-13 HAVE BEEN INSTALLED, ENERGIZED, TESTED, AND APPROVED BY IDOT. ANY TEMPORARY UNIT DUCT INSTALLED SHALL BE DISCONNECTED AND ABANDONED IN PLACE. REMOVAL OF AERIAL CABLES ATTACHED TO WOOD POLES WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF "REMOVE TEMPORARY WOOD POLE" PAY

11. EXISTING LIGHT TOWER 8 DEF2 SHALL NOT BE REMOVED UNTIL PROPOSED LIGHT TOWER 8 DEF1 SHOWN ON DRAWING E-13 HAS BEEN INSTALLED. ENERGIZED. TESTED. AND APPROVED BY IDOT. COORDINATION BETWEEN CONTRACTS 62A76 AND 62A77 WILL BE NECESSARY FOR INSTALLATION OF THE PROPOSED FEED FOR LIGHT TOWER 8 DEF1.



a*ecom*

D162A77-SHT-Light-06 DESIGNED -TJL REVISED USER NAME = myersc DRAWN CAM REVISED PLOT SCALE = 100.0000 '/ 10. CHECKED -WDS REVISED PLOT DATE = 3/2/2020 DATE - 3/4/2020 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

EXISTING/TEMPORARY LIGHTING PLAN SB I-90/94 SHEET 6 OF 25 SHEETS STA. 6230+00(SB) TO STA. 6241+50(SB)

SCALE: 1"=50"

F.A.I. RTE. SECTION COUNTY 90/94/290 2015-018R COOK | 1360 | 770 CONTRACT NO. 62A77

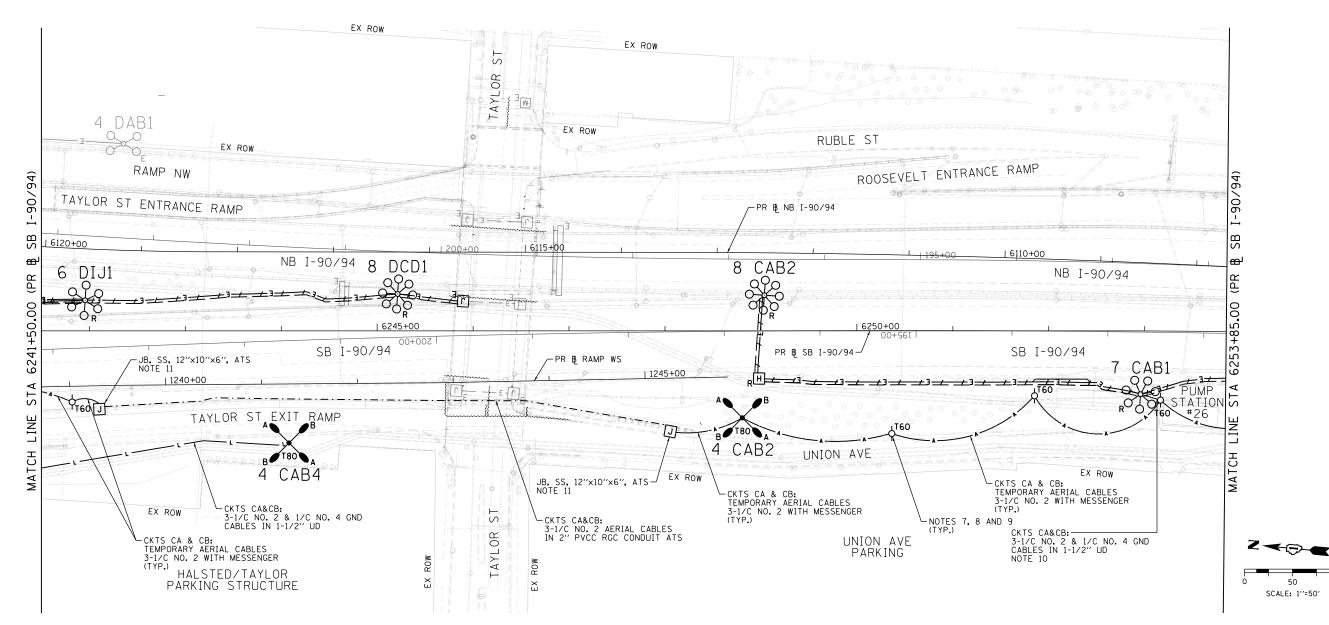
E-06

NOTES

- 1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
- 2. THE EXISTING ELECTRICAL SYSTEMS, AS DEPICTED ON THE PLANS, ARE INTENDED TO INDICATE THE GENERAL EQUIPMENT INSTALLATIONS INVOLVED AND SHALL NOT BE CONSTRUED AS AN EXACT REPRESENTATION OF THE FIELD CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM AND ASCERTAIN THE EXACT CONDITION, SIZE, TYPE, QUANTITY AND LOCATION OF THE EXISTING ELECTRICAL EQUIPMENT. ANY DISCREPANCIES BETWEEN THE ACTUAL EXISTING ELECTRICAL EQUIPMENT IN THE FIELD AND THE DEPICTION OF THE EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER FOR RESOLUTION, FAILURE TO VERIFY THE CONDITIONS, DIMENSIONS AND DETAILS OF THE EXISTING ELECTRICAL EQUIPMENT TO CONFIRM THAT THE NEW EQUIPMENT IS COMPATIBLE WITH THE EXISTING EQUIPMENT AND CAN BE PROPERLY INSTALLED AND CONNECTED AS SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROVIDING A SAFE, COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.
- 3. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
- 4. IDOT CONTRACTS 60X94, 62A76, 62A77 AND 60Y00 WILL BE ONGOING SIMULTANEOUSLY WITH THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL ELECTRICAL WORK FOR THIS CONTRACT WITH THE WORK IN THOSE CONTRACTS. THIS COORDINATION WORK SHALL BE INCLUDED AT NO ADDITIONAL COST TO THIS CONTRACT.

- 5. ALL OF THE EXISTING LIGHTING UNITS AND LIGHTING CIRCUITS CURRENTLY FED FROM EXISTING IDOT LIGHTING CONTROLLERS SHALL REMAIN ENERGIZED DURING NIGHTTIME HOURS FOR THE DURATION OF THE CONTRACT. ANY TEMPORARY POWER REQUIRED TO KEEP THE LIGHTING SYSTEM ENERGIZED WILL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
- ALL EXISTING LIGHT TOWERS SHOWN TO BE REMOVED SHALL BE DISPOSED OF PROPERLY OFFSITE.
- 7. THE TEMPORARY WOOD POLES AND ASSOCIATED AERIAL CABLES SHALL BE REMOVED ONCE THE PERMANENT FEEDS SHOWN ON DRAWING E-14 HAVE BEEN INSTALLED, ENERGIZED, TESTED, AND APPROVED BY 100T. ANY TEMPORARY UNIT DUCT INSTALLED SHALL BE DISCONNECTED AND ABANDONED IN PLACE. REMOVAL OF AERIAL CABLES ATTACHED TO WOOD POLES WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF "REMOVE TEMPORARY WOOD POLE" PAY 1TFM.
- 8. THE LOCATIONS OF THE WOOD POLES SHOWN ARE APPROXIMATIONS. THE FINAL INSTALLATION LOCATION OF THE POLE SHALL BE STAKED IN THE FIELD AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION TO IDENTIFY ANY CONFLICTS WITH EXISTING/PROPOSED UTILITIES AND WORK TO BE PERFORMED BY OTHER DISCIPLINES.
- 9. PROVIDE 50 FEET OF SLACK CABLE AT EACH TEMPORARY WOOD POLE TO ALLOW FOR RELOCATION OF AERIAL CABLES DURING THE DIFFERENT STAGES OF CONSTRUCTION.

- 10. ROUTE THE PROPOSED UNIT DUCT INTO THE BASE OF LIGHT TOWER 7 CAB1 AND CONNECT THE CABLES TO THE EXISTING CABLES WITHIN THE HANDHOLE OF THE HIGH MAST LIGHT TOWER. THE EXISTING TOWER SHALL REMAIN ACTIVE UNTIL PROPOSED TOWER 8 CAB1 ON DRAWING E-14 HAS BEEN INSTALLED, ENERGIZED, TESTED, AND APPROVED BY IDOT.
- 11. SEE IDOT STANDARD BE-801 FOR AERIAL CABLE INSTALLATION DETAILS FOR ROUTING THE AERIAL CABLES INTO THE JUNCTION BOX ATTACHED TO STRUCTURE.



AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276

D162A77-SHT-Light-07 DESIGNED -TJL REVISED USER NAME = myersc DRAWN CAM REVISED PLOT SCALE = 100.0000 '/ 10. CHECKED -WDS REVISED PLOT DATE = 3/2/2020 DATE - 3/4/2020 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING/TEMPORARY LIGHTING PLAN

SB 1-90/94

SHEET 7 OF 25 SHEETS STA.6241+50(SB) TO STA.6253+85(SB)

SCALE: 1"=50"

E-07

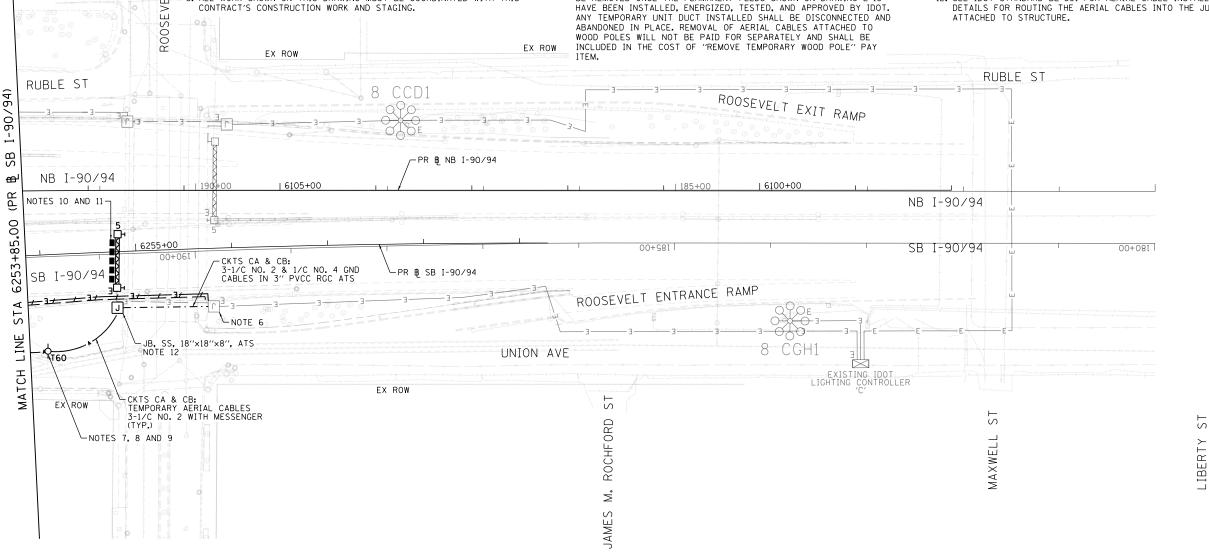


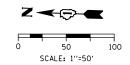
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- 1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
- 2. THE EXISTING ELECTRICAL SYSTEMS, AS DEPICTED ON THE PLANS, ARE INTENDED TO INDICATE THE GENERAL EQUIPMENT INSTALLATIONS INVOLVED AND SHALL NOT BE CONSTRUED AS AN EXACT REPRESENTATION OF THE FIELD CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM AND ASCERTAIN THE EXACT CONDITION, SIZE, TYPE, QUANTITY AND LOCATION OF THE EXISTING ELECTRICAL EQUIPMENT. ANY DISCREPANCIES BETWEEN THE ACTUAL EXISTING ELECTRICAL EQUIPMENT IN THE FIELD AND THE DEPICTION OF THE EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER FOR RESOLUTION. FAILURE TO VERIFY THE CONDITIONS, DIMENSIONS AND DETAILS OF THE EXISTING ELECTRICAL EQUIPMENT TO CONFIRM THAT THE NEW EQUIPMENT IS COMPATIBLE WITH THE EXISTING EQUIPMENT AND CAN BE PROPERLY INSTALLED AND CONNECTED AS SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROVIDING A SAFE,
- COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM. 3. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS

- 4. IDOT CONTRACTS 60X94, 62A76, 62A77 AND 60Y00 WILL BE ONGOING SIMULTANEOUSLY WITH THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL ELECTRICAL WORK FOR THIS CONTRACT WITH THE WORK IN THOSE CONTRACTS. THIS COORDINATION WORK SHALL BE INCLUDED AT NO ADDITIONAL COST TO THIS
- 5. ALL OF THE EXISTING LIGHTING UNITS AND LIGHTING CIRCUITS CURRENTLY FED FROM EXISTING IDOT LIGHTING CONTROLLERS SHALL REMAIN ENERGIZED DURING NIGHTTIME HOURS FOR THE DURATION OF THE CONTRACT. ANY TEMPORARY POWER REQUIRED TO KEEP THE LIGHTING SYSTEM ENERGIZED WILL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
- 6. DRILL THE EXISTING JUNCTION BOX ATTACHED TO THE WEST ABUTMENT OF THE ROOSEVELT ROAD BRIDGE AND ROUTE A 3" CONDUIT ACROSS THE FACE OF THE ABUTMENT FOR THE PROPOSED LIGHTING CIRCUIT CABLES.
- 7. THE TEMPORARY WOOD POLES AND ASSOCIATED AERIAL CABLES SHALL BE REMOVED ONCE THE PERMANENT FEEDS SHOWN ON DRAWING E-15 HAVE BEEN INSTALLED, ENERGIZED, TESTED, AND APPROVED BY IDOT. ANY TEMPORARY UNIT DUCT INSTALLED SHALL BE DISCONNECTED AND ABANDONED IN PLACE. REMOVAL OF AERIAL CABLES ATTACHED TO WOOD POLES WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF "REMOVE TEMPORARY WOOD POLE" PAY

- 8. THE LOCATIONS OF THE WOOD POLES SHOWN ARE APPROXIMATIONS. THE FINAL INSTALLATION LOCATION OF THE POLE SHALL BE STAKED IN THE FIELD AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION TO IDENTIFY ANY CONFLICTS WITH EXISTING/PROPOSED UTILITIES AND WORK TO BE PERFORMED BY OTHER DISCIPLINES.
- 9. PROVIDE 50 FEET OF SLACK CABLE AT EACH TEMPORARY WOOD POLE TO ALLOW FOR RELOCATION OF AERIAL CABLES DURING THE DIFFERENT STAGES OF CONSTRUCTION.
- 10. REMOVE EXISTING SIGN LUMINAIRES. THIS REMOVAL WORK SHALL BE INCLUDED IN THE COST OF THE "REMOVE OVERHEAD SIGN STRUCTURE BRIDGE MOUNTED" PAY ITEM.
- 11. DISCONNECT THE EXISTING SIGN LIGHTING ELECTRICAL FEED AND REMOVE CABLES BACK TO THE NEAREST SPLICE POINT UNAFFECTED BY CONSTRUCTION. THIS WORK SHALL BE PAID FOR UNDER THE 'DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO THE NEAREST SPLICE" PAY ITEM.
- 12. SEE IDOT STANDARD BE-801 FOR AERIAL CABLE INSTALLATION DETAILS FOR ROUTING THE AERIAL CABLES INTO THE JUNCTION BOX





D162A77-SHT-Light-08	DESIGNED - TJL	REVISED -	Γ
USER NAME = myersc	DRAWN - CAM	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - WDS	REVISED -	
PLOT DATE = 1/23/2020	DATE - 1/29/2019	REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

EXISTING LIGHTING PLAN SB I-90/94 SCALE: 1"=50" SHEET 8 OF 25 SHEETS STA. 6253+85(SB) TO STA.

F.A.I. RTE. SECTION COUNTY 90/94/290 2015-018R COOK | 1360 | 772 CONTRACT NO. 62A77



E-09

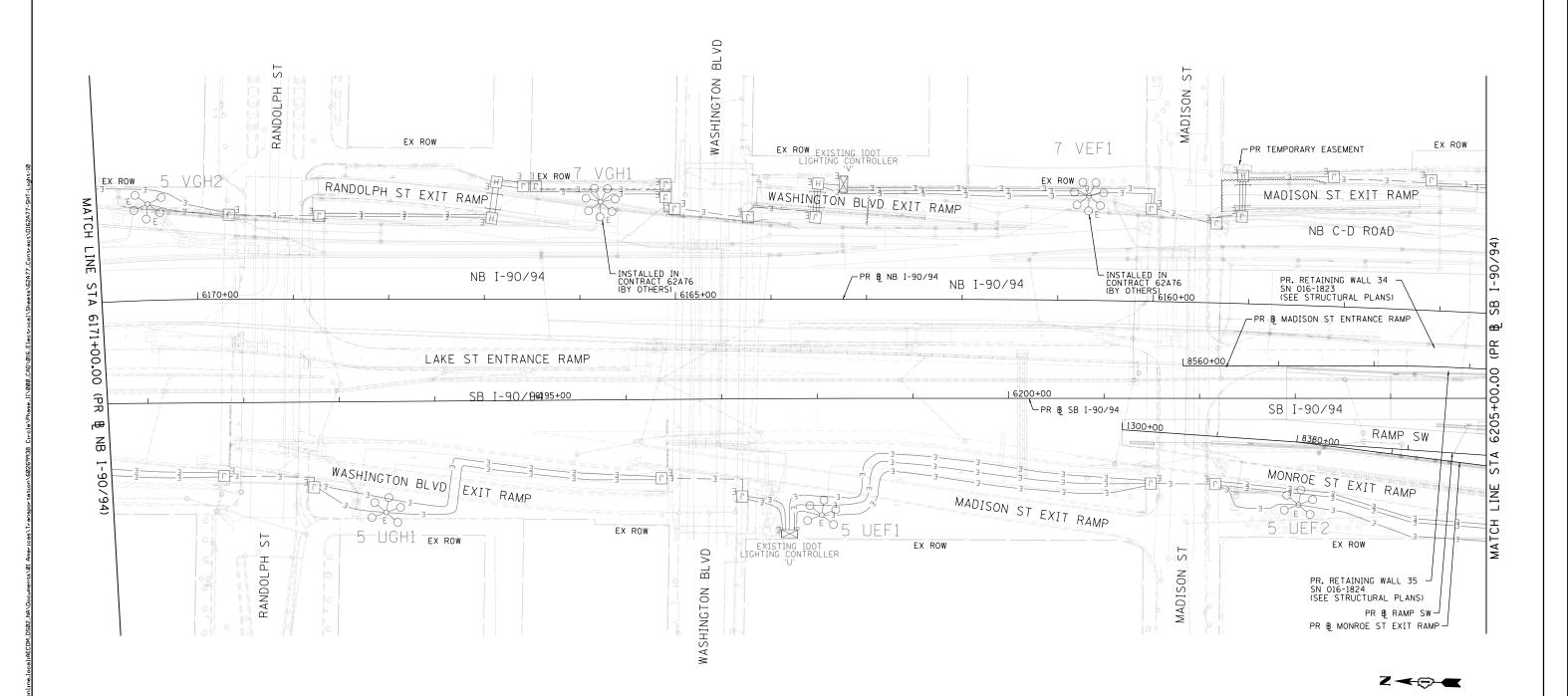
D162A77-SHT-Light-09	DESIGNED - TJL	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - WDS	REVISED -
PLOT DATE = 1/23/2020	DATE - 1/29/2019	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

NO WORK SHOWN ON THIS SHEET

PROPOSED LIGHTING PLAN SB I-90/94 SCALE: 1"=50" SHEET 9 OF 25 SHEETS STA. TO STA. 6171+00(NB)

F.A.I. RTE. 90/94/290



AECOM
303 EAST MACKER DRIVE, SUITE 1400
CHICACO, IL 60601-5276
PHONE, (132) 373-7700 FAX; (3)23 373-6800

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

NO WORK SHOWN ON THIS SHEET

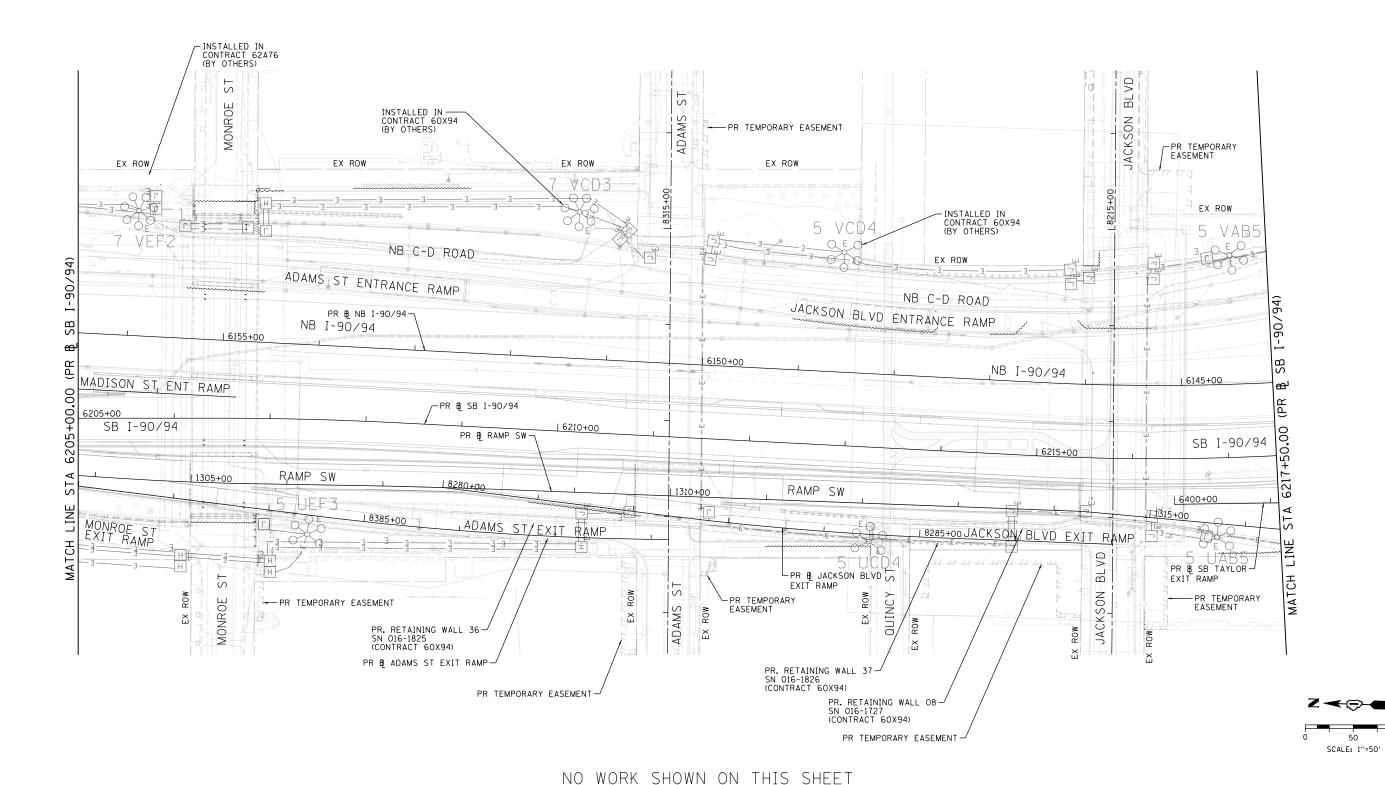
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90/94/290 2015-018R C
CO
SB) | ILLINOIS FED. AID PRO.

50 SCALE: 1"=50"

COUNTY TOTAL SHEET NO.

COOK 1360 774

CONTRACT NO. 62A77



AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276

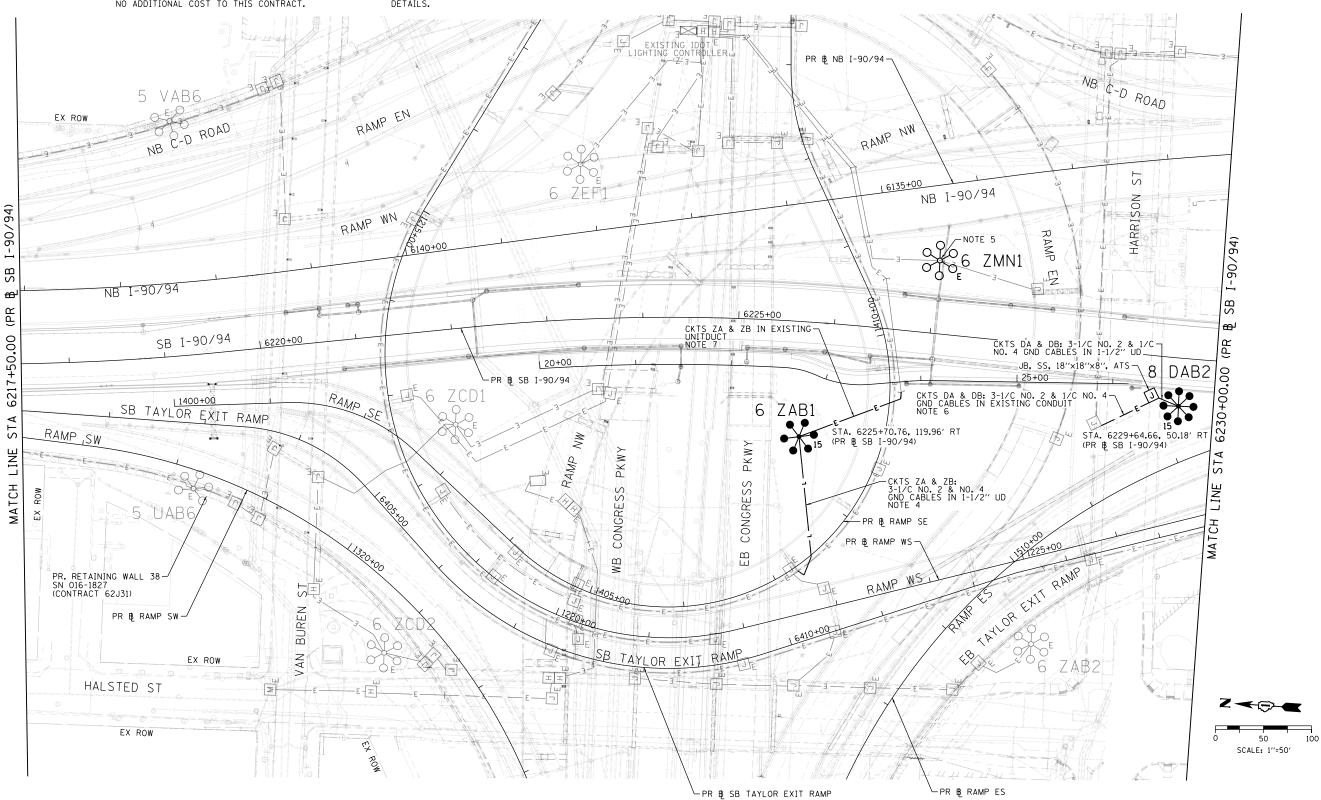
D162A77-SHT-Light-11	DESIGNED - TJL	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 100.0000 ' / 10.	CHECKED - WDS	REVISED -
PLOT DATE = 1/23/2020	DATE - 1/29/2019	REVISED -

STATE OF ILI	LINOIS
DEPARTMENT OF TRA	NSPORTATION

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SCALE: 1"=50"	SHEET	11	0F	25	SHEETS	STA. 6205+00(SB)	TO STA.6217+50(SB)	l
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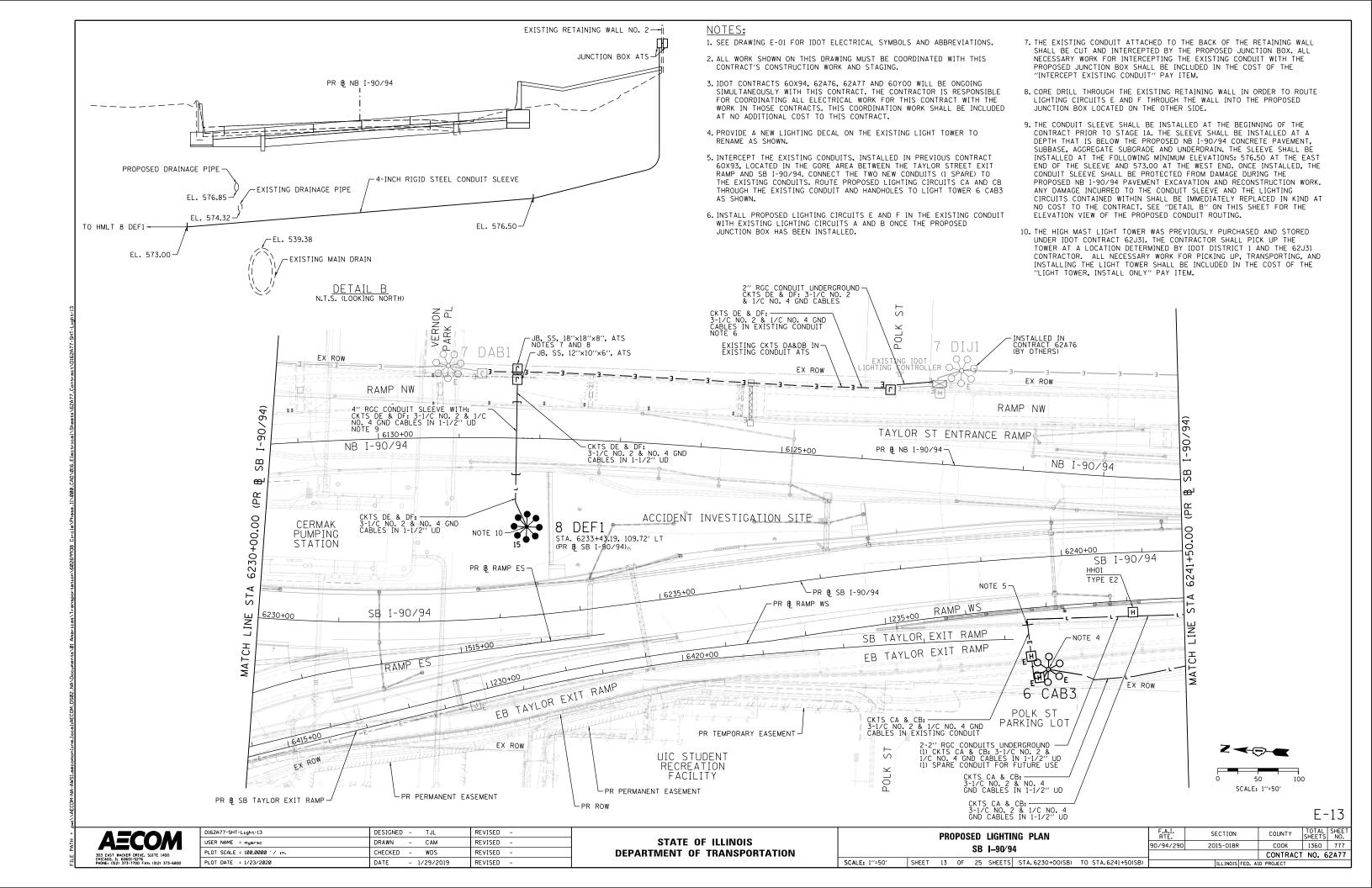
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
0/94/290	2015-018R	соок	1360	775		
		CONTRACT	NO. 6	2A77		
ILLINOIS FED. AID PROJECT						

- 1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
- 2. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
- 3. IDOT CONTRACTS 60X94, 62A76, 62A77 AND 60Y00 WILL BE ONGOING SIMULTANEOUSLY WITH THIS CONTRACT, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL ELECTRICAL WORK FOR THIS CONTRACT WITH THE WORK IN THOSE CONTRACTS. THIS COORDINATION WORK SHALL BE INCLUDED AT NO ADDITIONAL COST TO THIS CONTRACT.
- 4. ROUTE THE PROPOSED UNIT DUCT FROM LIGHT TOWER 6 ZAB1 THROUGH THE EXISTING CONDUIT ATTACHED TO THE RAMP SE PIER STRUCTURE AND MAKE ALL NECESSARY CONNECTIONS TO THE UNDERPASS LIGHTING SYSTEM CABLES WITHIN THE JUNCTION BOX ATTACHED TO THE PIER.
- 5. PROVIDE A NEW SERVICE PAD FOR EXISTING LIGHT TOWER 6 ZMNI. INSTALL THE SERVICE PAD ONLY AFTER THE AREA AROUND THE EXISTING TOWER HAS BEEN GRADED TO THE FINAL ELEVATION FOR THIS CONTRACT. SEE DRAWING E-22 FOR SERVICE PAD DETAILS.
- 6. INTERCEPT THE EXISTING CONDUIT ATTACHED TO THE HARRISON STREET BRIDGE PIER WITH THE PROPOSED JUNCTION BOX. PRIOR TO PULLING THE PROPOSED LIGHTING CIRCUIT CABLES THROUGH THE EXISTING CONDUIT RACEWAY THE CONDUIT SHALL BE ROD AND CLEANED.
- 7. DISCONNECT AND ROUTE THE EXISTING UNIT DUCT FROM EXISTING LIGHT TOWER 5 ZAB1 TO PROPOSED LIGHT TOWER 6 ZAB1.



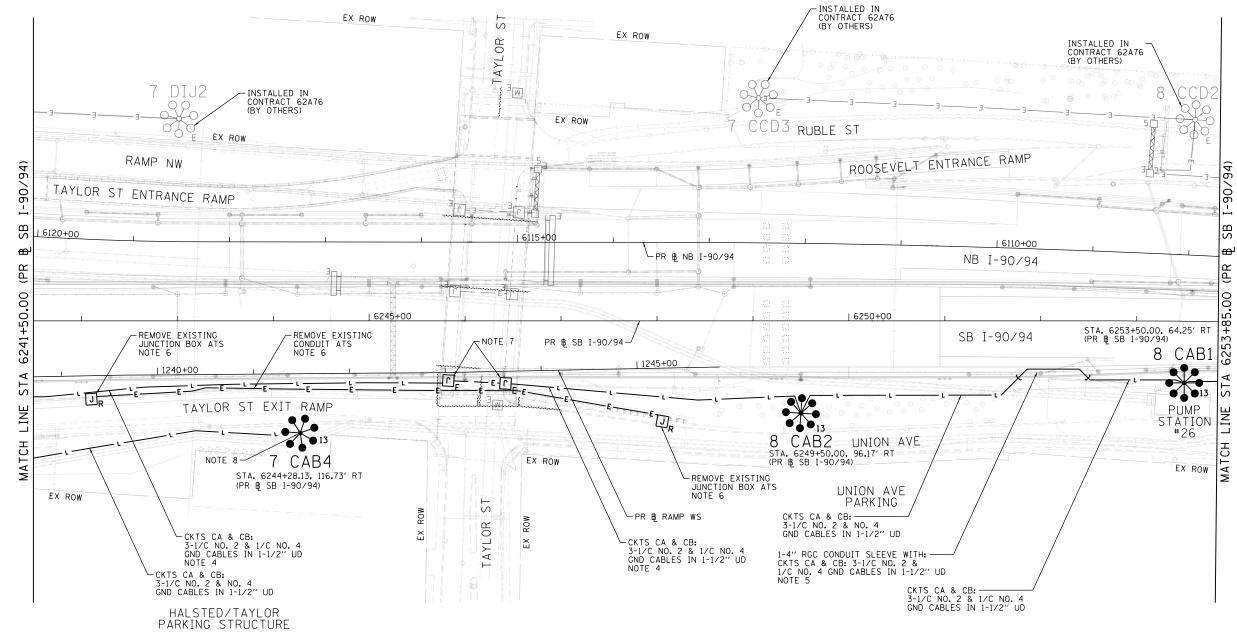
AECOM303 EAST. WACKER DRIVE. SUITE 1400
CHICAGO, II. 60601-5276
PHONE: (131) 373-7700 FAX; (1312) 373-6800

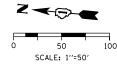
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



- 1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 2. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
- 3. IDOT CONTRACTS 60X94, 62A76, 62A77 AND 60YOO WILL BE ONGOING SIMULTANEOUSLY WITH THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL ELECTRICAL WORK FOR THIS CONTRACT WITH THE WORK IN THOSE CONTRACTS. THIS COORDINATION WORK SHALL BE INCLUDED AT NO ADDITIONAL COST TO THIS CONTRACT.
- 4. ROUTE THE PROPOSED UNIT DUCT THROUGH THE 3" CONDUIT RISER TO THE EXISTING JUNCTION BOX ATTACHED TO THE WEST ABUTMENT OF THE TAYLOR STREET.
- 5. THE CONDUIT SLEEVE SHALL BE BURIED AT A DEPTH 30" BELOW THE FINAL ELEVATION OF THE PROPOSED SHOULDER AND EXTEND AT LEAST 10" PAST THE CURB.
- 6. THE CONDUIT AND JUNCTION BOXES INSTALLED FOR THE TEMPORARY FEED ON DRAWING E-O7 SHALL BE REMOVED ONCE THE PROPOSED FEED SHOWN ON THIS DRAWING HAS BEEN INSTALLED, ENERGIZED, TESTED, AND APPROVED BY IDOT.
- 7. ROUTE THE PROPOSED UNIT DUCT FOR LIGHTING CIRCUITS CA AND CB THROUGH THE EXISTING 3-INCH CONDUITS ATTACHED TO STRUCTURE TO THE EXISTING JUNCTION BOXES ATTACHED TO THE TAYLOR STREET BRIDGE STRUCTURE AS SHOWN. SEE DRAWING E-16 FOR CONTINUATION OF THE LIGHTING CIRCUIT ROUTING BETWEEN JUNCTION BOXES.
- 8. AVOID 72" SEWER PIPE DURING THE CONSTRUCTION OF THE FOUNDATION OF TOWER 7 CAB4.

SCALE: 1"=50"





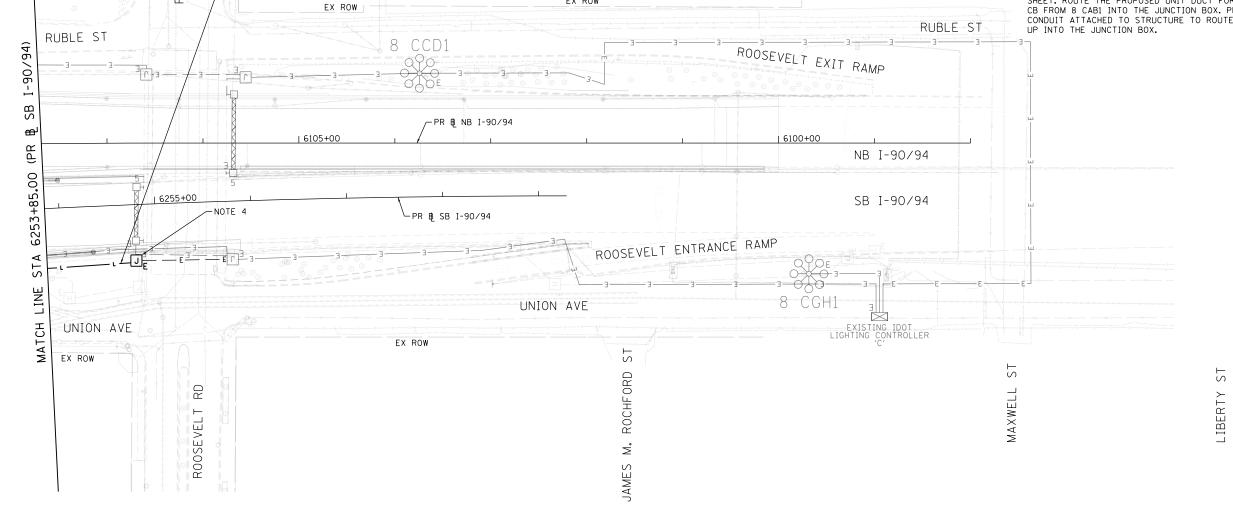
AECOM	
303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276	
PHONE: (312) 373-7700 FAX: (312) 373-6800	

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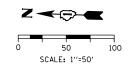
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING					NG PLAN		F.A.I. RTE.	
			SR	I-90/94	4		90/94/290	
			30	1-30/3	T			
SHEET	14	OF	25	SHEETS	STA. 6241+50(SB)	TO STA.6253+85(SB)		

- 1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 2. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
- 3. IDOT CONTRACTS 60X94, 62A76, 62A77 AND 60Y00 WILL BE ONGOING SIMULTANEOUSLY WITH THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL ELECTRICAL WORK FOR THIS CONTRACT WITH THE WORK IN THOSE CONTRACTS. THIS COORDINATION WORK SHALL BE INCLUDED AT NO ADDITIONAL COST TO THIS CONTRACT.
- 4. DRILL THE EXISTING JUNCTION BOX, SHOWN ON DRAWING E-08 FOR TEMPORARY FEED, FOR THE PROPOSED LIGHTING FEED SHOWN ON THIS SHEET. ROUTE THE PROPOSED UNIT DUCT FOR LIGHTING CIRCUITS CA AND CB FROM 8 CABI INTO THE JUNCTION BOX. PROVIDE A 3-INCH PVCC RGS CONDUIT ATTACHED TO STRUCTURE TO ROUTE THE UNIT DUCT FROM GRADE UP INTO THE JUNCTION BOX.



EX ROW



AECOM	
303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	

D162A77-SHT-Light-15	DESIGNED - TJL	REVISED -
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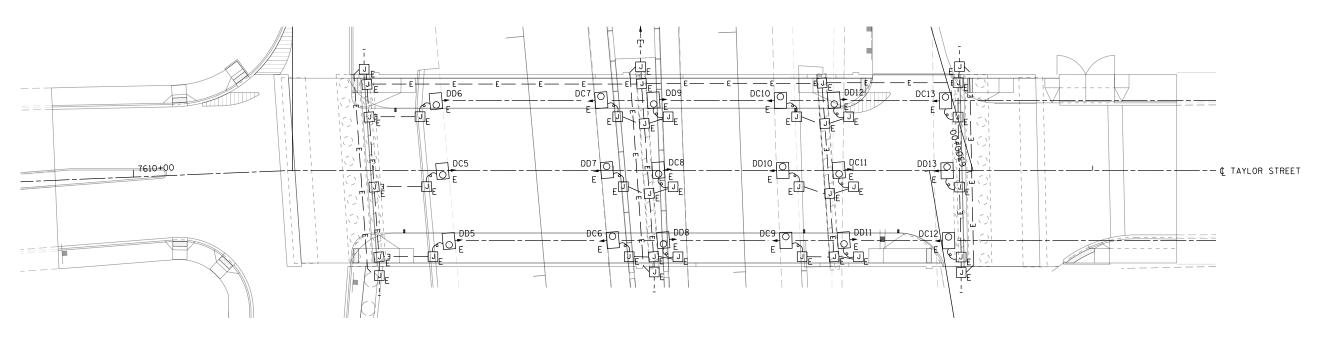
8

ROOSEVELT

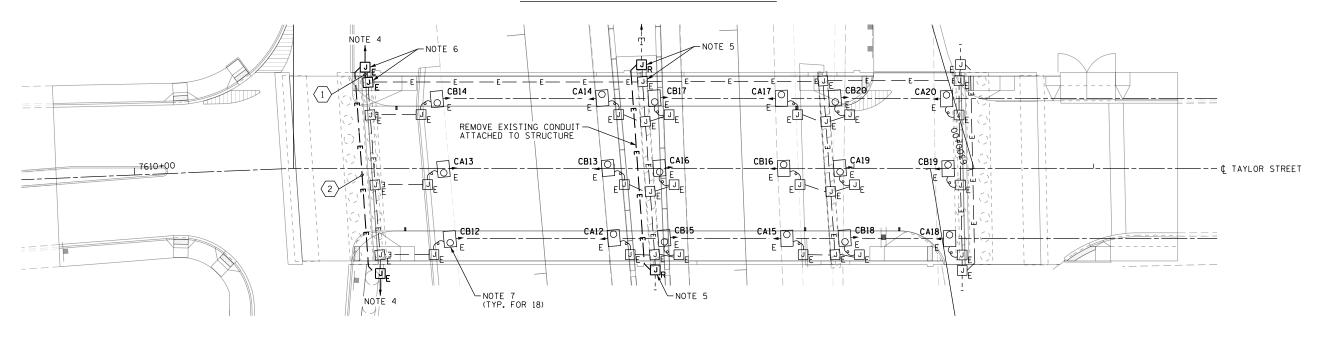
-CKTS CA & CB: 3-1/C NO. 2 & 1/C NO. 4 GND CABLES IN 1-1/2" UD NOTE 4

STATE	OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

		PR	0P0	SED	LIGHTI	NG PLAN		F.A.I. RTE.		SECTION
				SB	I-90/9	14		90/94/29	90	2015-018R
				-		-				
SCALE: 1"=50"	SHEET	15	OF	25	SHEETS	STA. 6253+85(SB)	TO STA.			ILLINOIS FED



EXISTING UNDERPASS LIGHTING PLAN

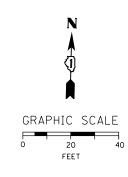


PROPOSED UNDERPASS LIGHTING PLAN

NOTES:

- 1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
- 2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- ALL UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM EXISTING IDOT LIGHTING CONTROLLER "C".
- 4. SEE DRAWING E-14 FOR CONTINUATION OF THE LIGHTING CIRCUIT ROUTING.
- 5. REMOVE THE EXISTING CONDUIT ATTACHED TO THE FACE OF THE EXISTING PIER STRUCTURE ROUTED INTO GRADE. ABANDON THE UNDERGROUND PORTIONS OF THE EXISTING RACEWAYS.
- 6. DRILL THE EXISTING JUNCTION BOX AND ROUTE THE NEW CONDUIT AND LIGHTING CIRCUIT CABLES INTO THE JUNCTION BOX AND SPLICE TO THE EXISTING LIGHTING CIRCUIT CABLES TO FEED THE UNDERPASS LIGHTING SYSTEM.
- 7. PROVIDE A NEW LIGHTING DECAL FOR THE EXISTING UNDERPASS LUMINAIRE TO RENAME AS SHOWN.

	CABLE / CONDUIT SCHEDULE
1	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
2	3-1/C"2, 1-1/C"4 GND XLP TYPE USE CABLES IN EXISTING 3" CONDUIT ATTACHED TO STRUCTURE



F.A.I. RTE.

SECTION

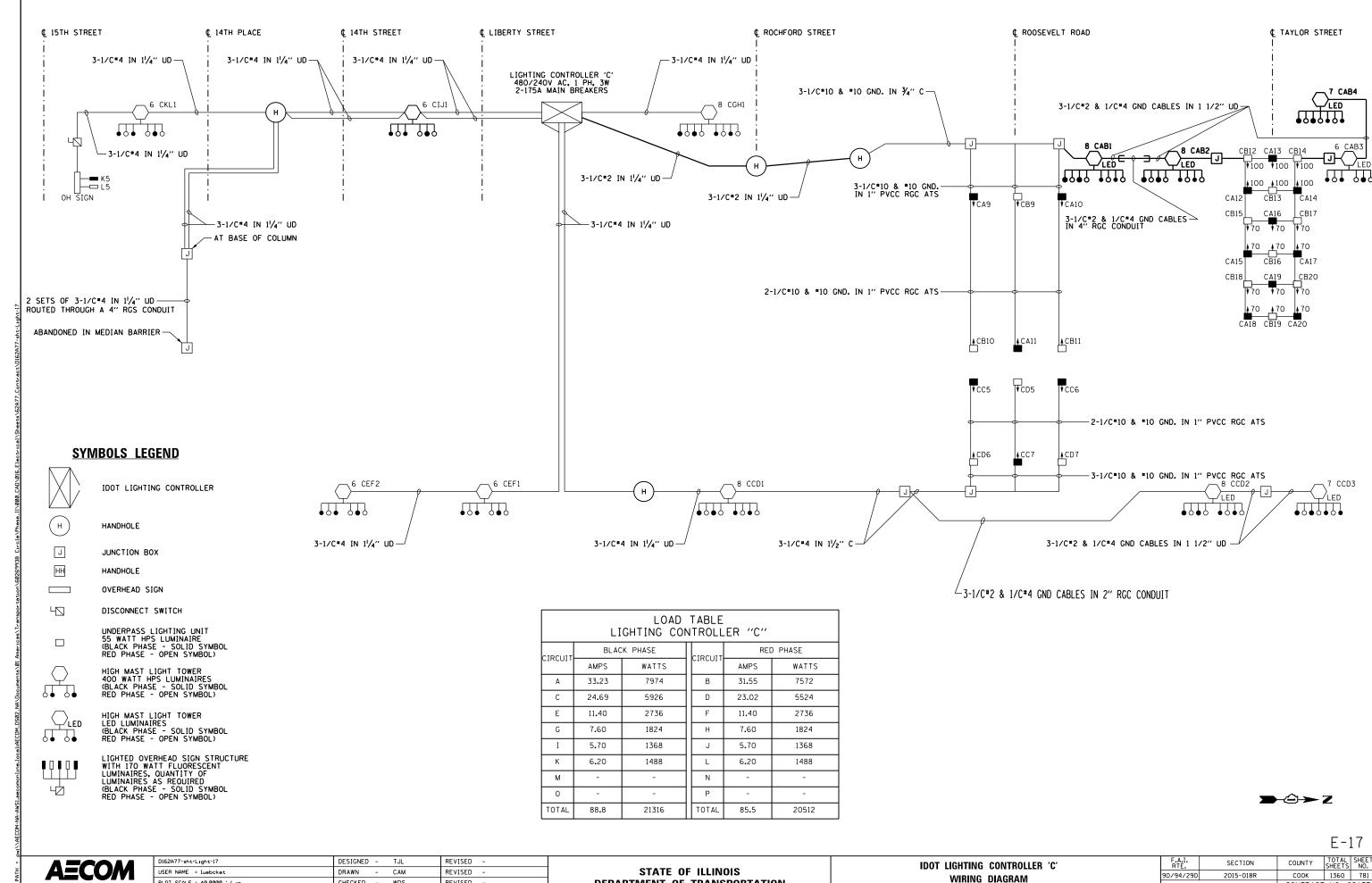
2015-018R

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PLOT DATE = 1/23/2020	DATE - 1/29/2019	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	TAVIOR OTREET HARREDAGO HOUTING RIAN	F.A.I. RTE.	
	TAYLOR STREET UNDERPASS LIGHTING PLAN	90/94/290)
		_	
SCALE: 1"=20"	SHEET 16 OF 25 SHEETS STA. TO STA.		_

E-16 COUNTY COOK 1360 780 CONTRACT NO. 62A77



DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S.

SHEET 17 OF 25 SHEETS STA.

TO STA.

PLOT SCALE = 40.0000 '/ in.

PLOT DATE = 1/24/2020

CHECKED -

DATE

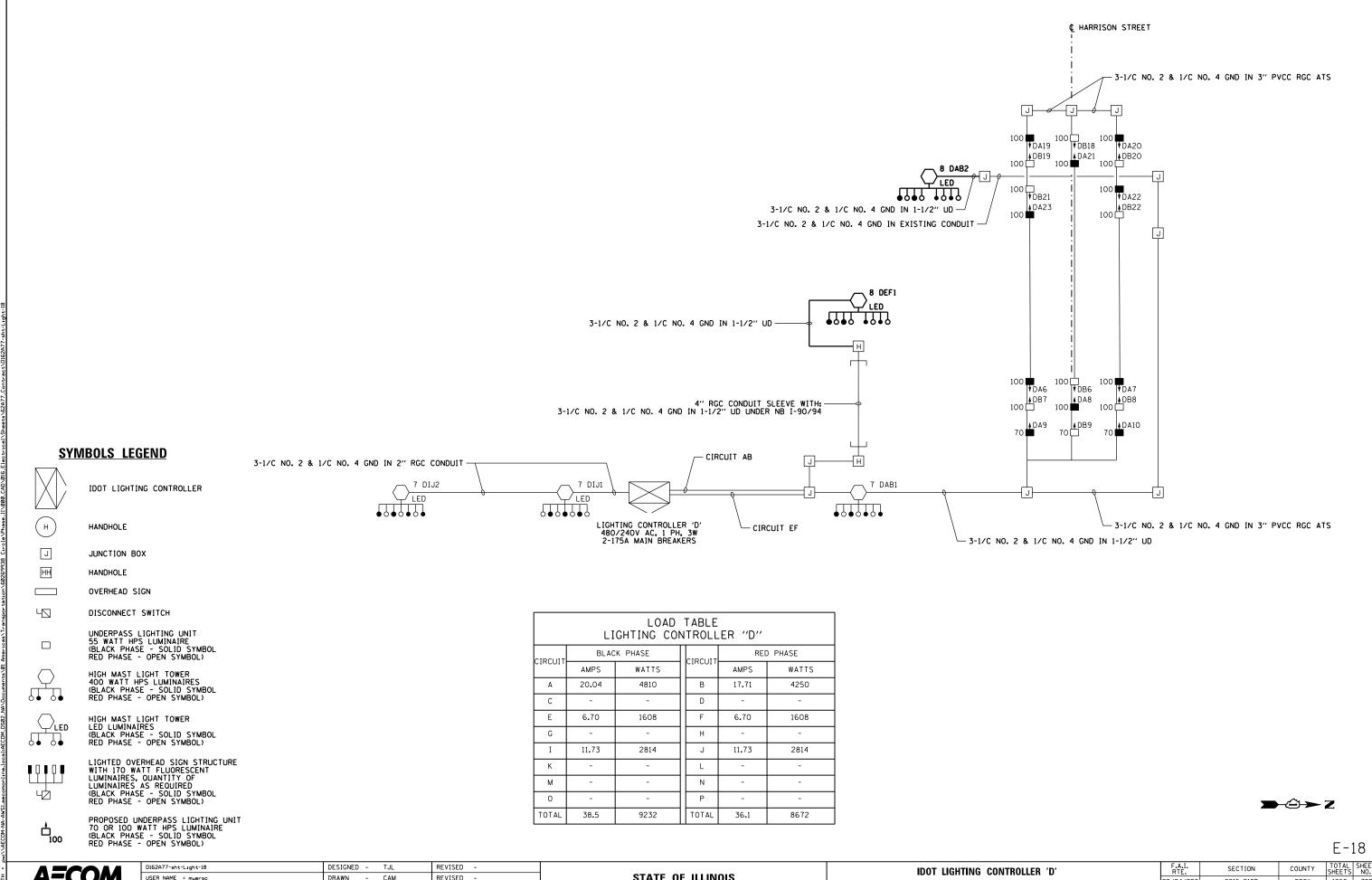
WDS

- 1/29/2019

REVISED

REVISED

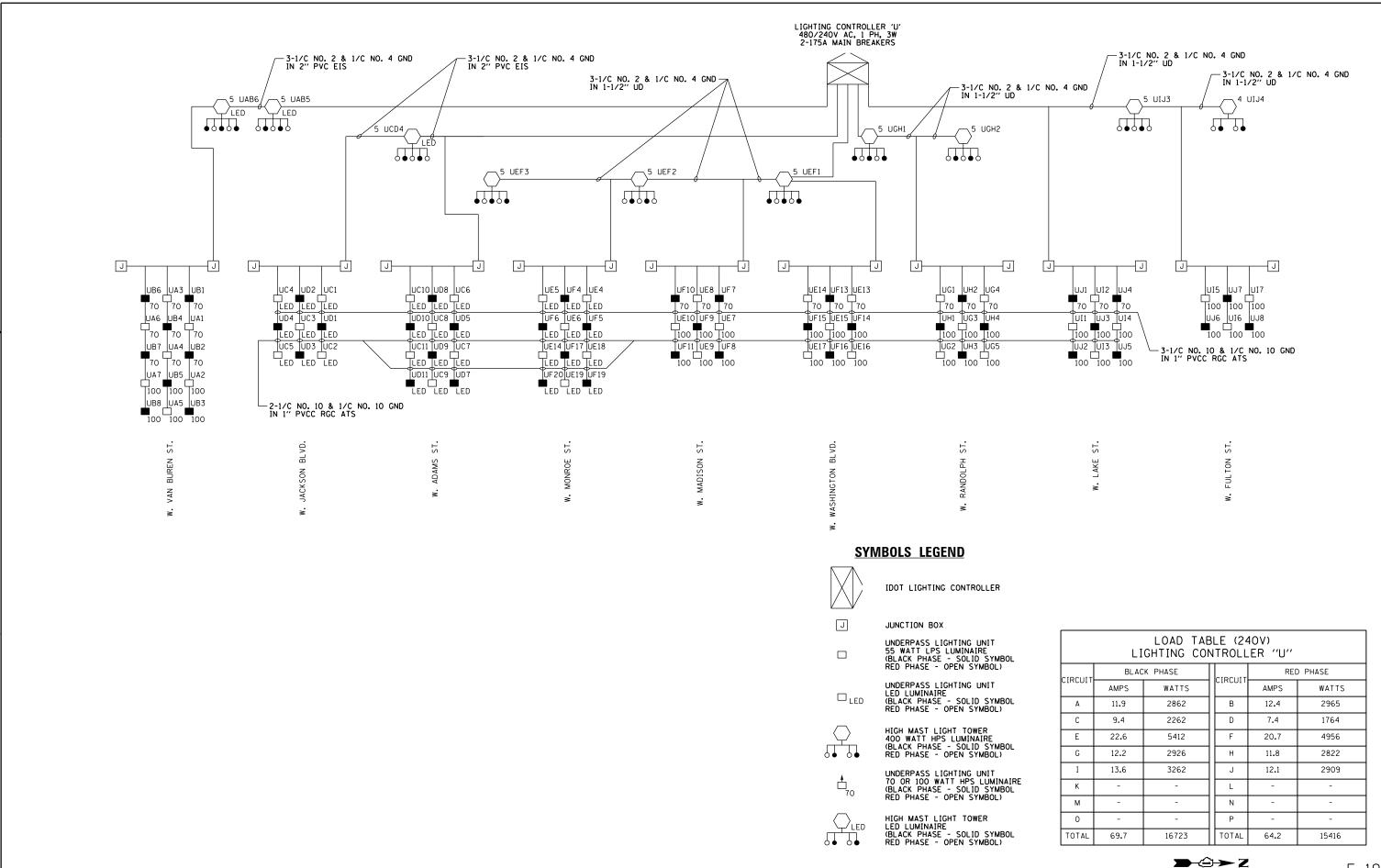
CONTRACT NO. 62A77



. SUITE 1400 AX: (312) 373-6800

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S. | SHEET 18 | OF 25 | SHEETS | STA. | TO STA.



AECOM

303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE; 1312 373-7700 FAX; (3)23 373-6800

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IDOT LIGHTING CONTROLLER 'U'
WIRING DIAGRAM

SHEET 19 OF 25 SHEETS STA.

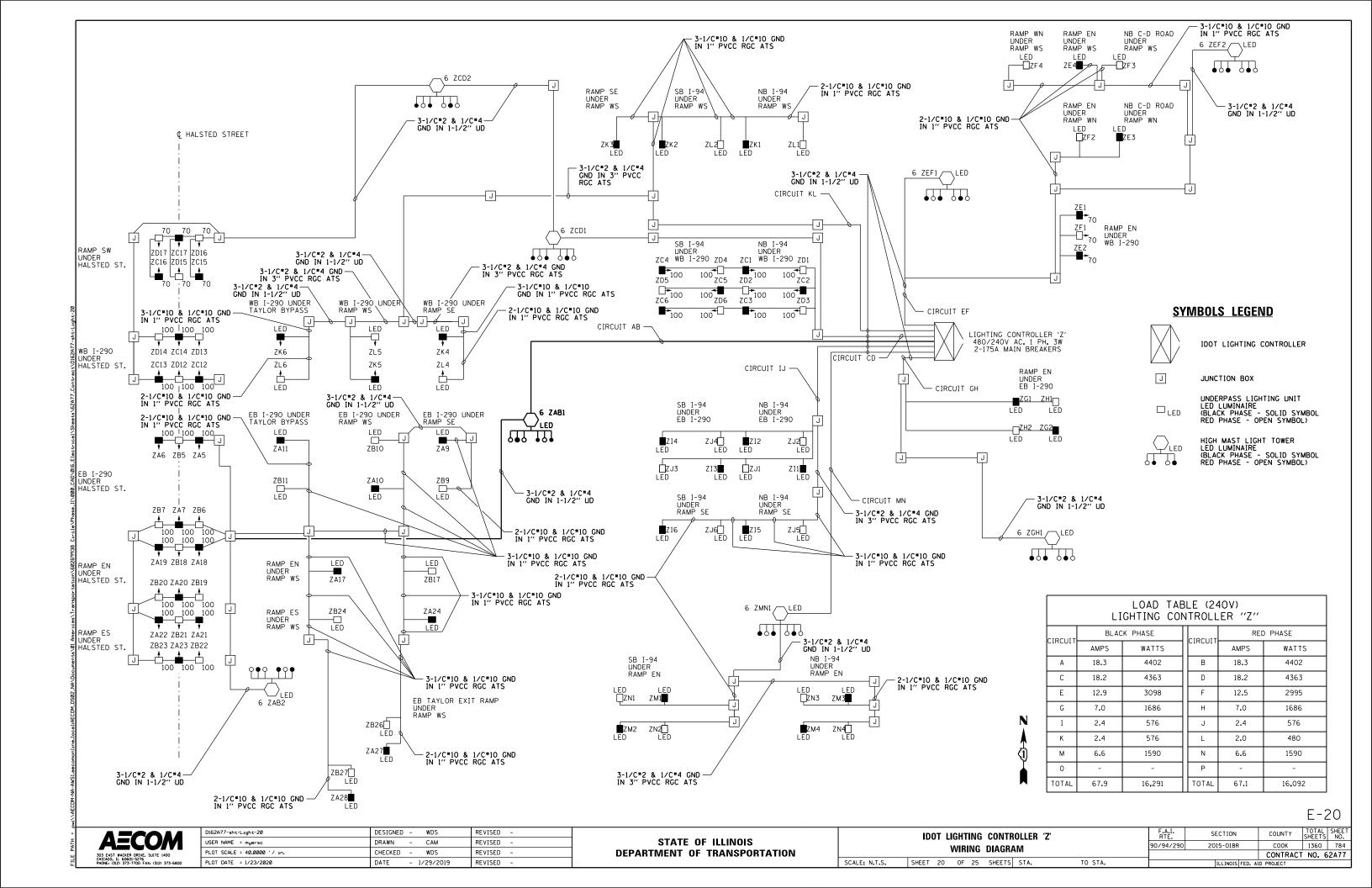
TO STA.

SCALE: N.T.S.

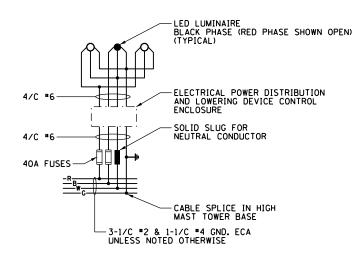
F.A.I. SECTION COUNTY TOTAL SHEETS NO.
90/94/290 2015-018R COOK 1360 783

CONTRACT NO. 62A77

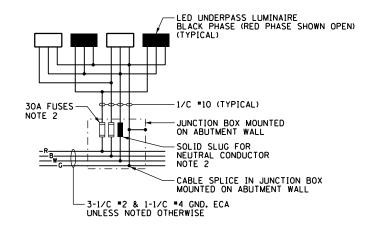
|ILLINOIS | FED. AID | PROJECT



HIGH MAST LIGHT TOWER FOUNDATION SCHEDULE (NOTE 3)											
HIGH MAST	HIGH MAST L	IGHT TOWER FOUND	ATION LOCATION	HIGH MAST L	GHT TOWER FOUNDATIO	N ELEVATIONS	HIGH MAST				
LIGHT TOWER IDENTIFICATION	STATION	OFFSET	BASELINE	TOP ELEVATION	BOTTOM ELEVATION	DESIGN DEPTH (FT)	TOWER HEIGHT		REMARKS AND NOTES		
6 ZAB1	6225+70.76	119 . 96 RT	SB I-90/94	590.81	535.81	55	150				
8 DAB2	6229+64.66	50.18 RT	SB I-90/94	580.88	530.88	50	150				
8 DEF1	6233+43.19	109.72 LT	SB I-90/94	586.56	541.56	45	150				
7 CAB4	6244+28.13	116.73 RT	SB I-90/94	593.49	538.49	55	130				
8 CAB2	6249+50.00	96.17 RT	SB I-90/94	589.64	539.64	50	130				
8 CAB1	6253+50.00	64.25 RT	SB I-90/94	579.83	539.83	40	130				



TYPICAL HIGH MAST LIGHT TOWER WIRING DIAGRAM NOT TO SCALE



TYPICAL UNDERPASS LIGHTING UNIT WIRING DIAGRAM NOT TO SCALE

NOTES:

- 1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
- 2. THE FUSES, FUSE HOLDERS, AND SOLID SLUGS SHALL BE PROVIDED ACCORDING TO ARTICLE 1065.01 OF THE IDOT STANDARDS. THE COST OF PROVIDING THE FUSES, FUSE HOLDERS, AND SOLID SLUGS IN THE JUNCTION BOX WILL NOT BE PAID FOR SEPARATELY AND WILL BE INCLUDED IN THE COST OF THE JUNCTION BOX IN WHICH THEY ARE INSTALLED.
- 3. THE SCHEDULE ON THIS DRAWING REPLACES THE "SHAFT LENGTH (D) TABLE" SHOWN ON IDOT STANDARDS BE-506 AND BE-511.
- 4. SEE IDOT STANDARDS BE-506 AND BE-511 FOR LIGHT TOWER FOUNDATION DETAILS.

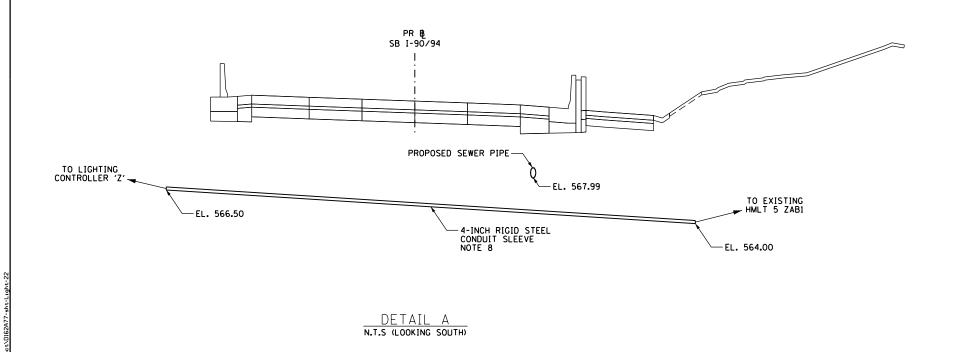
E-21

AECOM303 EAST WACKER ORIVE. SUITE 1400
CHICACO, II. 60601-5276
PHONE: 1312 '373-7700 FAX: (312: 373-6800

D162A77-sht-L1ght-21	DESIGNED - TJL	REVISED -
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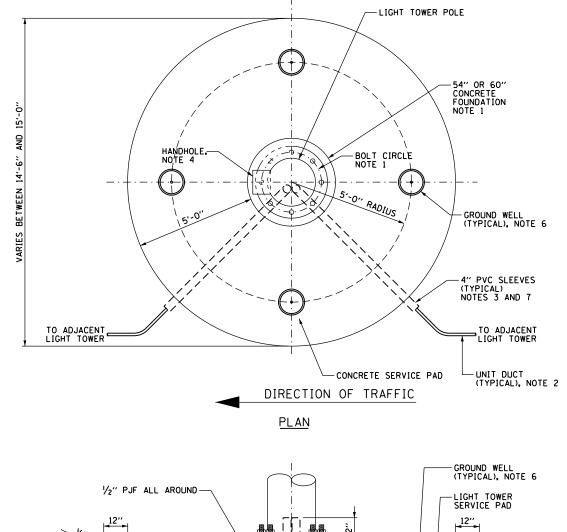
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

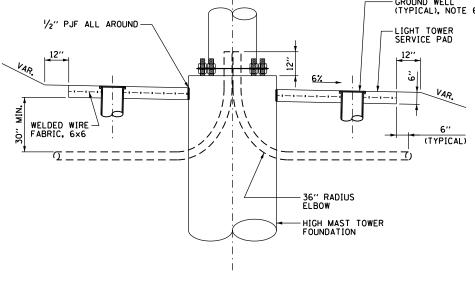
	F. F		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ELECTRICAL DETAILS		90/94/290	2015-018R	COOK	1360	785
					CONTRAC	T NO. 6	2A77
SCALE: N.T.S.	SHEET 21 OF 25 SHEETS STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		





- 1. SEE IDOT STANDARD DRAWING BE-506 FOR ADDITIONAL HIGH MAST LIGHT TOWER FOUNDATION AND GROUND WELL DETAILS.
- SEE ELECTRICAL PLAN DRAWINGS FOR QUANTITY, SIZE, AND TYPE OF RACEWAY AND LIGHTING CIRCUITS ROUTED TO EACH HIGH MAST LIGHT TOWER FOUNDATION.
- 3. PVC SLEEVES MUST BE EXTENDED 6 INCHES BEYOND THE EDGE OF THE CONCRETE PAD.
- 4. THE HANDHOLE FOR THE HIGH MAST LIGHTING UNIT MUST BE ORIENTED SUCH THAT IT IS MOUNTED ON THE SIDE OF THE POLE THAT IS OPPOSITE THE DIRECTION OF TRAFFIC.
- 5. ALL EMPTY SLEEVES MUST BE CAPPED UNLESS NOTED OTHERWISE ON THE PLANS.
- 6. INSTALL GROUND WELLS 5'-O" AS MEASURED FROM THE CENTER LINE OF THE HIGH MAST TOWER TO THE CENTER LINE OF THE WELL.
- PVC CONDUIT SLEEVES SHALL BE INCLUDED IN THE COST OF THE LIGHT TOWER FOUNDATION AND SHALL NOT BE PAID FOR SEPARATELY.
- 8. THE CONDUIT SLEEVE SHALL BE INSTALLED AT A DEPTH THAT IS BELOW THE PROPOSED SB I-90/94 CONCRETE PAVEMENT, SUBBASE, AGGREGATE SUBGRADE AND UNDERDRAIN. THE SLEEVE SHALL BE INSTALLED AT THE FOLLOWING MINIMUM ELEVATIONS: 566,50 AT THE EAST END OF THE SLEEVE AND 564.00 AT THE WEST END, ONCE INSTALLED, THE CONDUIT SLEEVE SHALL BE PROTECTED FROM DAMAGE DURING THE PROPOSED SB I-90/94 PAVEMENT EXCAVATION AND RECONSTRUCTION WORK AS WELL AS THE PROPOSED DRAINAGE WORK, ANY DAMAGE INCURRED TO THE CONDUIT SLEEVE AND THE LIGHTING CIRCUITS CONTAINED WITHIN SHALL BE IMMEDIATELY REPLACED IN KIND AT NO COST TO THE CONTRACT.





ELEVATION - SHOWN WITHOUT CURB

GROUND MOUNTED HIGH MAST TOWER SERVICE PAD,
GROUNDING AND CONDUIT INSTALLATION DETAILS
NOT TO SCALE

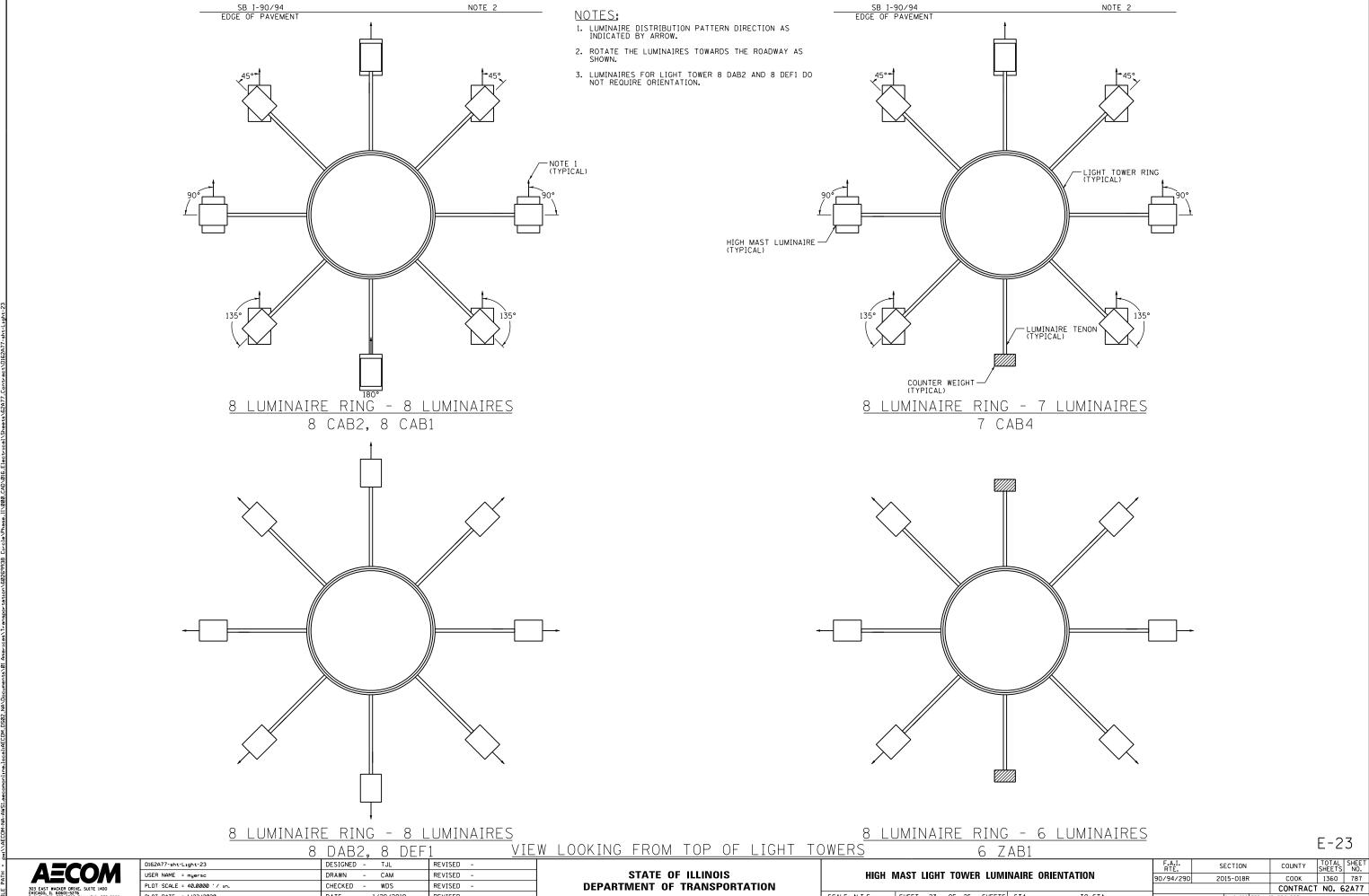
E-22



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PLOT DATE = 1/23/2020	DATE - 1/29/2019	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

							F.A.I. RTE.	
LIGH	I IOWE	K SE	:KVICE	PAU	AND CONI	DUIT DETAILS	90/94/290	
CALF. NTS	SHEET	22	OF 25	SHEET	TS STA	TO STA		_



DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S. SHEET 23 OF 25 SHEETS STA.

PLOT SCALE = 40.0000 '/ in.

PLOT DATE = 1/23/2020

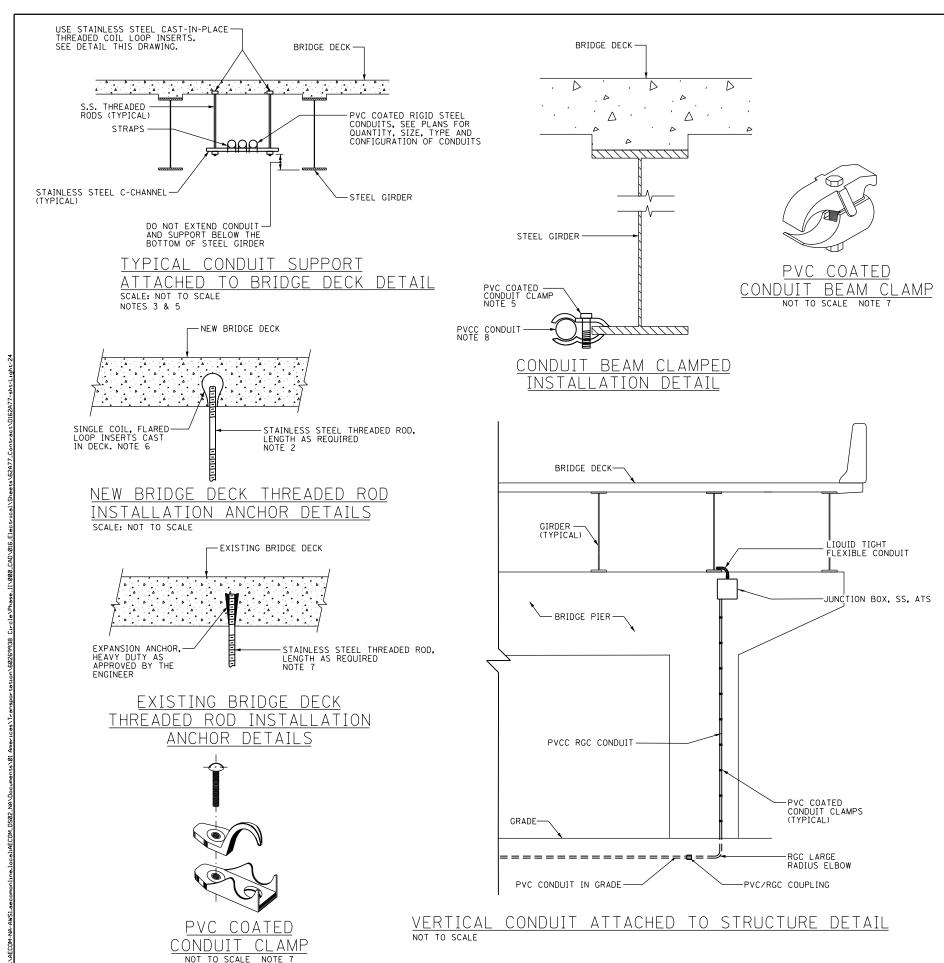
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- 1/29/2019

DATE

REVISED -

REVISED -

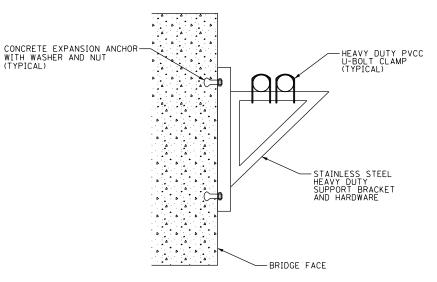


(TYPICAL)

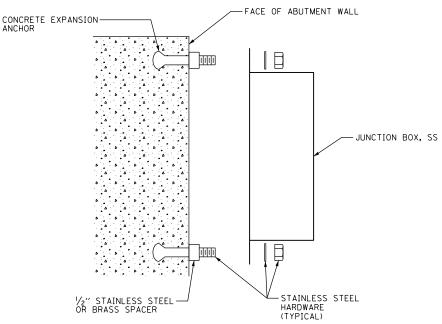
SCALE: N.T.S.

- 1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE MEANS AND METHODS FOR ATTACHING CONDUITS AND JUNCTION BOXES TO A STRUCTURE. ALL WORK REQUIRED TO ATTACH CONDUIT TO STRUCTURES MUST COMPLY WITH SECTION 811 OF THE STANDARD SPECIFICATIONS AND ALL MATERIALS MUST COMPLY WITH SECTION 1088 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR MUST COORDINATE THREADED ROD END SIZES WITH THE C-CHANNEL AND FLARED LOOP INSERT MANUFACTURERS.
- 3. THE CONDUIT SUPPORT SYSTEM ATTACHED TO THE BRIDGE STRUCTURE, INCLUDING THE CONCRETE INSERTS AND MOUNTING HARDWARE, WILL NOT BE PAID FOR SEPARATELY, AND SHALL BE INCLUDED IN THE COST FOR THE "CONDUIT ATTACHED TO STRUCTURE" PAY
- 4. SEE PLAN DRAWINGS FOR THE PROPOSED CONDUIT ROUTING.
- 5. ALL MOUNTING HARDWARE FOR THE PVCC RGC CONDUIT MUST BE PVC COATED.

- THE CONTRACTOR MUST USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN PENDANT MOUNTING THREADED RODS TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING THE INSERT LOCATIONS IN THE FIELD AND COORDINATING ALL WORK WITH THE BRIDGE DECK CONSTRUCTION.
- 7. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS WILL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE" PAY ITEM.
- 8. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.



MOUNTING BRACKET FOR MULTIPLE CONDUITS NOT TO SCALE



JUNCTION BOX MOUNTED TO STRUCTURE

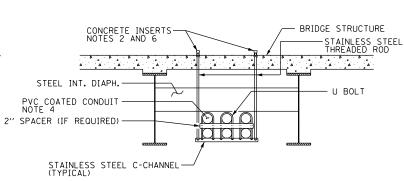
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

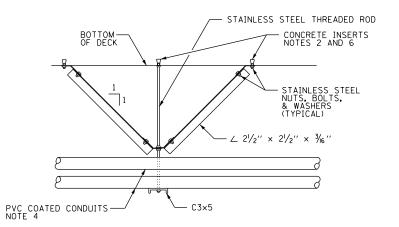
							F.A.I. RTE.	Ş
MISCELLANEOUS ELECTRICAL DETAILS								2
SHEET	24	OF	25	SHEETS	STA.	TO STA.		

SECTION COUNTY 2015-018R COOK 1360 788 CONTRACT NO. 62A77



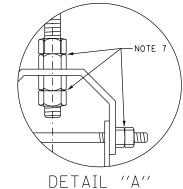


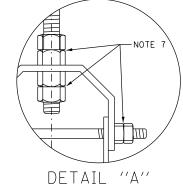
CONDUIT SUPPORT ATTACHED TO BRIDGE WITH DIAPHRAGM DETAIL NOTES 2 AND 3

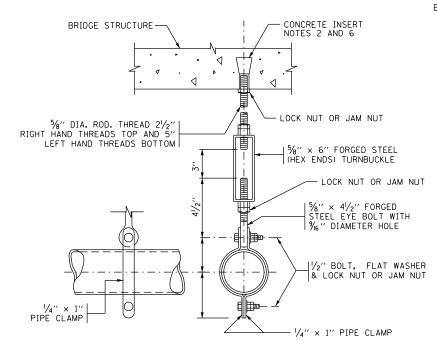


CENTERING DEVICE DETAIL - SIDE VIEW

(LOCATED ONLY ON A HANGER ADJACENT TO PIER)

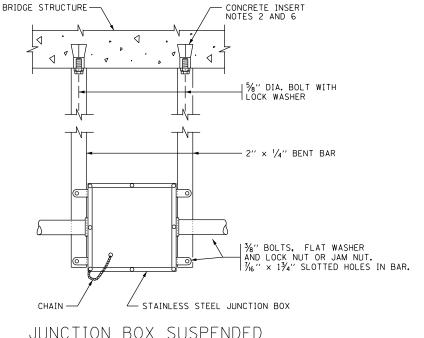




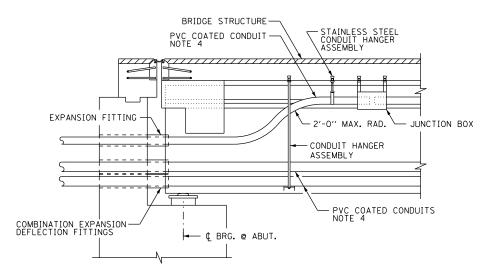


HANGER ASSEMBLY

EACH HANGER ASSEMBLY SHALL CONSIST OF CONCRETE INSERT, STAINLESS STEEL ROD, PIPE CLAMPS, NUTS, BOLTS, WASHERS, TURNBUCKLE AND EYE BOLT



JUNCTION BOX SUSPENDED STRUCTURE DETAILS NOTE 5



LONGITUDINAL SECTION

- 1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE MEANS AND METHODS FOR ATTACHING CONDUITS AND JUNCTION BOXES TO A STRUCTURE. ALL WORK REQUIRED TO ATTACH CONDUIT TO STRUCTURES MUST COMPLY WITH SECTION 811 OF THE STANDARD SPECIFICATIONS AND ALL MATERIALS MUST COMPLY WITH SECTION 1088 OF THE STANDARD SPECIFICATIONS.
- 2. SEE DRAWING E-24 FOR ADDITIONAL CONDUIT MOUNTING DETAILS AND FOR DETAILS REGARDING THE INSTALLATION OF CONCRETE INSERTS.
- 3. THE CONDUIT SUPPORT SYSTEM ATTACHED TO THE BRIDGE STRUCTURE, INCLUDING THE CONCRETE INSERTS AND MOUNTING HARDWARE, WILL NOT BE PAID FOR SEPARATELY, AND SHALL BE INCLUDED IN THE COST FOR THE "CONDUIT ATTACHED TO STRUCTURE" PAY ITEM.
- 4. SEE THE PLAN DRAWINGS FOR THE PROPOSED CONDUIT ROUTING.
- 5. THE JUNCTION BOX SUPPORT SYSTEM ATTACHED TO THE BRIDGE STRUCTURE, INCLUDING THE CONCRETE INSERTS AND ALL MOUNTING HARDWARE, WILL NOT BE PAID FOR SEPARATELY, AND SHALL BE INCLUDED IN THE COST FOR THE "JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE" PAY ITEM.
- 6. SPACE INSERTS AT 10 FOOT (MAXIMUM) CENTERS.
- 7. PROVIDE STAINLESS STEEL DOUBLE NUTS, JAM NUTS OR LOCK NUTS FOR THIS INSTALLATION.
- 8. PROVIDE CONDUIT SLEEVES IN THE BRIDGE ABUTMENT AS REQUIRED TO ROUTE THE CONDUITS THROUGH THE STRUCTURE AS SHOWN. THE DIAMETER OF THE SLEEVES SHALL BE A MINIMUM OF 2 INCHES LARGER IN DIAMETER THAN THE DIAMETER OF THE CONDUIT. PROVIDE WATERPROOF SEALANT IN THE INTERSTITIAL SPACE BETWEEN THE SLEEVE AND THE CONDUIT.

D162A77-sht-Light-25	DESIGNED - TJL	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
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PLOT DATE = 1/23/2020	DATE - 1/29/2019	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

						F.A.I. RTE.	SEC
	MISCELLA	NEOUS	ELECTRI	CAL DETAI	ILS	90/94/290	2015
SCALE: N.T.S.	SHEET 25	OF 25	SHEETS	STA.	TO STA.		ILU

CTION COUNTY 15-018R COOK 1360 789 CONTRACT NO. 62A77 LLINOIS FED. AID PROJECT

SEQUENCING NOTES:

- 1. IMPLEMENTATION OF INTELLIGENT TRANSPORTATION SYSTEMS TO BE PERFORMED IN COORDINATION WITH CONCURRENT CONTRACTS 60X79, 60X93, 62331, 60Y00, 62A76, AND 60X94. THESE CONTRACTS REMOVE EXISTING ITS ELEMENTS AND INSTALL CONDUIT, HANDHOLES/JUNCTION BOXES, ITS CABINETS, CABLING, ITS DEVICE STRUCTURES, AND OTHER INFRASTRUCTURE THAT MUST BE COORDINATED WITH WORK DESCRIBED HEREIN. STAGES REFERENCED IN THESE PLANS CORRELATES TO STAGES OF CONSTRUCTION FROM THE CONCURRENT
- 2. IN GENERAL, ITS EQUIPMENT IDENTIFIED FOR REMOVAL OR SALVAGING TO BE REMOVED/SALVAGED IN THE CONSTRUCTION STAGE THAT INCLUDES WORK AROUND THE ITS SITE, LIKEWISE, ITS INFRASTRUCTURE INSTALLATION TO TAKE PLACE IN THE CONSTRUCTION STAGE THAT INCLUDES WORK AROUND THE ITS SITE.
- 3. PUMP STATION #26. REMOVE THE EXISTING HIGHWAY ADVISORY RADIO (HAR) SIGN AND ASSOCIATED CABLING TO PUMP STATION #26. INSTALL A CONDUIT LINK BETWEEN THE EXISTING COMMUNICATIONS HANDHOLE NEAR STA. 6254+00 AND PUMP STATION *26. THIS ROUTE WILL UTILIZE ATTACHED CONDUIT TO THE PUMP STATION THAT HAD BEEN USED FOR THE HAR CABLING. INSTALL A NEW 12 SINGLE MODE FIBER (SMF) LATERAL CABLE BETWEEN THE HANDHOLE AND PUMP STATION, SPLICING THE CABLE TO THE 96 SMF DISTRIBUTION FIBER CABLE IN THE HANDHOLE AND TERMINATING IN THE PUMP STATION (SEE SHEET ITS-08). REMOVE THE EXISTING 12 SMF CABLE BETWEEN PUMP STATION #26 AND THE NORTHBOUND MEDIAN JUNCTION BOX NEAR STA. 6244+50. THIS WORK MUST BE PERFORMED BEFORE THE POWER AND COMMUNICATIONS CABLE TO EXISTING DMS-10 IS REROUTED TO THE AERIAL INSTALLATION (BY OTHERS IN CONTRACT 62A76).
- 4. IEMPORARY DMS-10. BEFORE REMOVAL OF EXISTING DMS-10 IN THE MEDIAN (BY OTHERS IN CONTRACT 62A76), INSTALL NEW OVERHEAD SIGN TRUSS WITH DMS AT STA 6245+25. INSTALL TEMPORARY DMS CABINET ON SIGN TRUSS. REROUTE AERIAL POWER AND COMMUNICATION CABLE FROM EXISTING DMS-10 IN THE MEDIAN TO TEMPORARY DMS ON SIGN TRUSS VIA ATTACHED AND AERIAL CONDUIT. POWER AND COMMUNICATIONS SOURCES TO BE RETAINED (SEE SHEET ITS-08).
- 5. PERMANENT DMS-10. INSTALL DOWNTIME BETWEEN THE OPERATION OF EXISTING, TEMPORARY, AND PERMANENT DMS-10 TO BE MINIMIZED (SEE NOTE 6 BELOW).
- 6. WORK THAT IMPACTS THE NORMAL OPERATION OF THE TRAFFIC MANAGEMENT OR COMMUNICATIONS SYSTEMS SHALL ONLY BE EXECUTED ON WEEKENDS FROM 10 PM FRIDAY EVENING TO 4 AM MONDAY MORNING. HOLIDAYS AND SPECIAL EVENT WEEKENDS SHALL BE EXCLUDED. THE CONTRACTOR SHALL COORDINATE AND RECEIVE PRIOR APPROVAL FROM THE ENGINEER FOR ALL WORK THAT COULD DEGRADE OR IMPAIR THE OPERATIONAL SYSTEMS. REQUESTS FOR APPROVAL SHALL BE MADE TO THE ENGINEER A MINIMUM OF 72 HOURS PRIOR TO THE ACTUAL COMMENCEMENT OF THE WORK.

GENERAL NOTES:

- 1. EXISTING/TEMPORARY ITS PLAN SHEETS DEPICT EXISTING CONDITIONS AND WORK TO BE PERFORMED TO MAINTAIN, REMOVE, SALVAGE, OR ABANDON EXISTING ITS INFRASTRUCTURE, PROPOSED ITS PLAN SHEETS DEPICT NEW ITS INFRASTRUCTURE TO BE INSTALLED, PROPOSED ITS SHEETS ALSO SHOW ITS INFRASTRUCTURE INSTALLED BY OTHERS IN CONCURRENT CONTRACTS AS EXISTING, WITH THE APPLICABLE CONTRACT NUMBER LISTED IN PARENTHESIS.
- 2. NOTATION FOR THE EXISTING/TEMPORARY ITS SHEETS IS AS FOLLOWS: - MAINTAINED = ITS INFRASTRUCTURE AND ITS OPERATION TO BE MAINTAINED THROUGH THE CONTRACT PERIOD (UNLESS OTHERWISE NOTED). THIS WORK IS TO BE PERFORMED UNDER THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.
- REMOVED = ITS INFRASTRUCTURE AND ITS OPERATION TO BE MAINTAINED UNTIL NO LONGER FEASIBLE DUE TO OTHER WORK IN THIS OR ANOTHER CONTRACT. ITEM(S) TO BE REMOVED AND DISPOSED OF. THIS WORK WILL NOT BE PAID FOR SEPARATELY AND WILL BE INCLUDED IN THE COST OF THE "REMOVE EXISTING SURVEILLANCE EQUIPMENT" PAY ITEM.
- SALVAGED = ITS INFRASTRUCTURE AND ITS OPERATION TO BE MAINTAINED UNTIL NO LONGER FEASIBLE DUE TO OTHER WORK IN THIS OR ANOTHER CONTRACT. ITEM(S) TO BE REMOVED AND TURNED OVER TO IDOT DISTRICT 1. THIS WORK WILL NOT BE PAID FOR SEPARATELY AND WILL BE INCLUDED IN THE COST OF THE "REMOVE EXISTING SURVEILLANCE
- ABANDONED = ITS INFRASTRUCTURE AND ITS OPERATION TO BE MAINTAINED UNTIL NO LONGER FEASIBLE DUE TO OTHER WORK IN THIS OR ANOTHER CONTRACT.
- 3. THE EXISTING ITS INFRASTRUCTURE, AS DEPICTED ON THE PLANS, IS INTENDED TO INDICATE THE GENERAL EQUIPMENT INSTALLATIONS INVOLVED AND SHALL NOT BE CONSTRUED AS AN EXACT REPRESENTATION OF THE FIELD CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM AND ASCERTAIN THE EXACT CONDITION, SIZE, TYPE, QUANTITY, AND LOCATION OF THE EXISTING ITS EQUIPMENT IN THE FIELD. ANY DISCREPANCIES BETWEEN THE ACTUAL EXISTING ITS EQUIPMENT IN THE FIELD AND THE EXISTING ITS EQUIPMENT AS DEPICTED SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER FOR RESOLUTION. FAILURE TO VERIFY THE CONDITIONS, DIMENSIONS, AND DETAILS OF THE EXISTING ITS EQUIPMENT TO CONFIRM THAT THE NEW EQUIPMENT IS COMPATIBLE WITH THE EXISTING EQUIPMENT CAN BE PROPERLY INSTALLED AND CONNECTED AS SHOWN ON THE PLANS SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROVIDING SAFE, COMPLETE, AND FULLY FUNCTIONAL ITS INFRASTRUCTURE.
- 4. LOCATIONS SHOWN FOR PROPOSED ITS INFRASTRUCTURE ARE DIAGRAMMATIC ONLY, UNLESS STATIONING AND OFFSET VALUES ARE PROVIDED. FINAL LOCATIONS FOR PROPOSED ITS ITEMS SHALL BE AS APPROVED BY THE ENGINEER. BURY DEPTH OF PROPOSED ITS CONDUITS SHALL BE COORDINATED IN THE FIELD WHEN CONDUITS INTERSECT PROPOSED DRAINAGE STRUCTURES. SEE DRAINAGE PLANS.

ABBREVIATIONS:

ATS ATTACHED TO STRUCTURE CCTV DIA EIS CLOSED-CIRCUIT TELEVISION DIAMETER

EMBEDDED IN STRUCTURE

ENC ENCASED IN CONCRETE, REINFORCED

GS HDHH ITS GALVANIZED STEEL

HEAVY-DUTY HANDHOLE INTELLIGENT TRANSPORTATION SYSTEM

JUNCTION BOX

POLYVYNAL CHLORIDE

JB PVC PVCC GS SS SMF PVC COATED GALVANIZED STEEL STAINLESS STEEL

SINGLE MODE FIBER

UG UNDERGROUND

WVDS WIRELESS VEHICLE DETECTION SYSTEM

RVSD RADAR VEHICLE SENSING DEVICE

D162A77-SHT-ITS-Ø1	DESIGNED - PTJ	REVISED -
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PLOT DATE = 1/30/2020	DATE - 1/29/2019	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

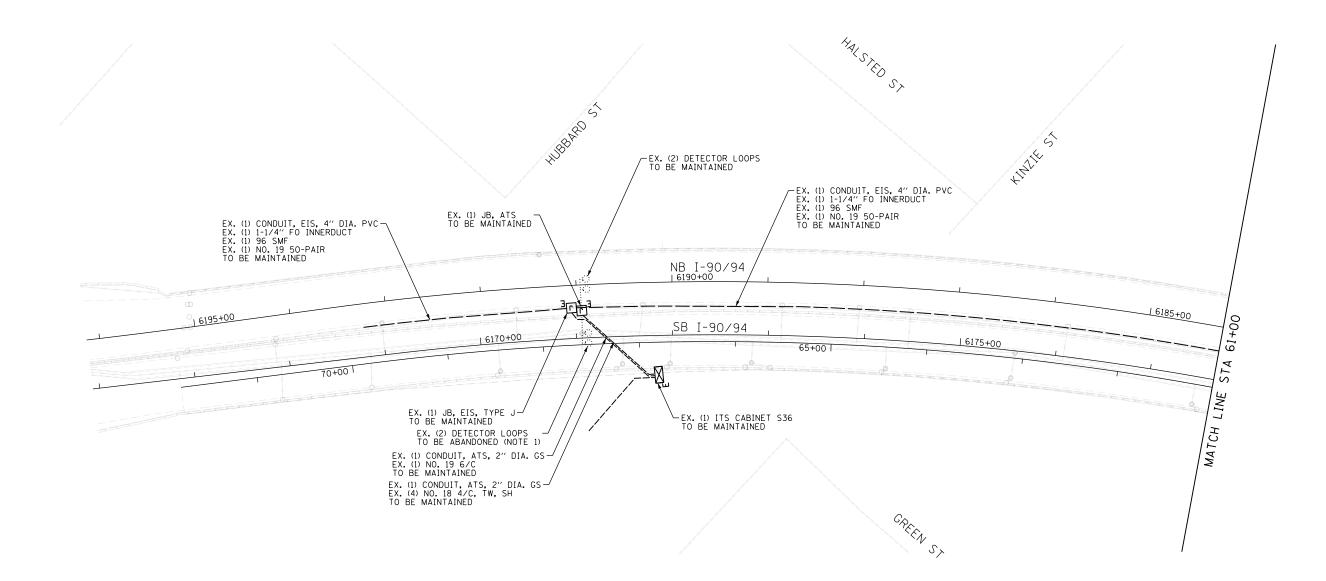
PROPOSED ITS PLAN SUGGESTED STAGING AND GENERAL NOTES SHEET 1 OF 46 SHEETS STA.

SCALE: N.T.S

F.A.I. SECTION COUNTY 90/94/290 2015-018R COOK | 1360 | 790 CONTRACT NO. 62A77 TO STA.

ITS-01

 MAINTAIN THE EXISTING IDOT ITS EQUIPMENT THAT WILL BE AFFECTED BY THE CONSTRUCTION WORK UNTIL THE NEW INFRASTRUCTURE AND CABLES ARE INSTALLED IN THE LOCATIONS AS INDICATED IN THE PROPOSED ITS PLAN SHEETS. THIS ITS MAINTENANCE WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.



		•
0	50 SCALE: 1"=50"	100

ITS-02

AECOM
303 EAST. WACKER DRIVE. SUITE 1400
CHICAGO. II. 60601-5276
PHONE. (312) 373-7700 FAX: (312) 373-6800

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PLOT DATE = 1/30/2020	DATE - 1/29/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

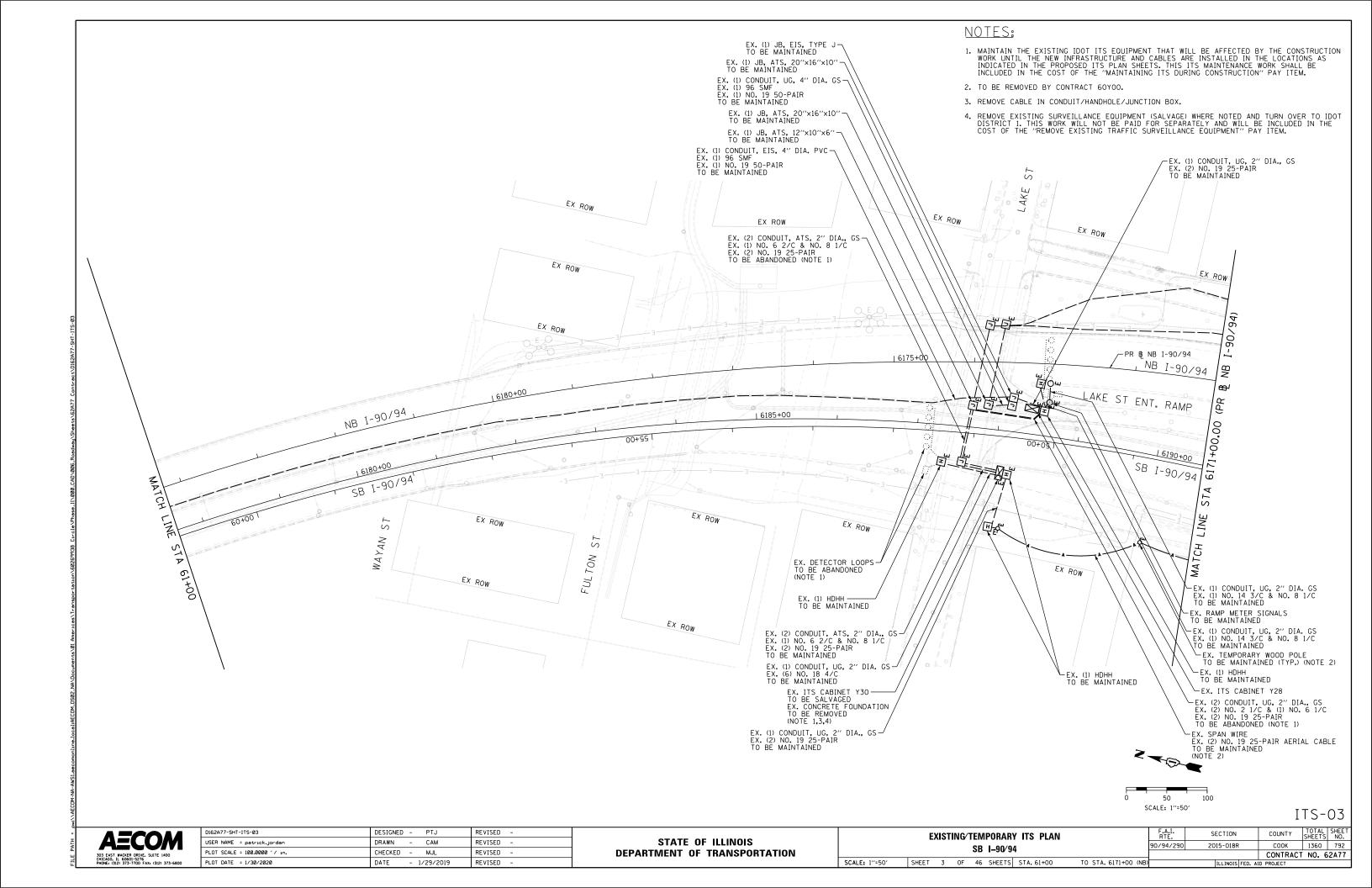
EXISTING/TEMPORARY ITS PLAN

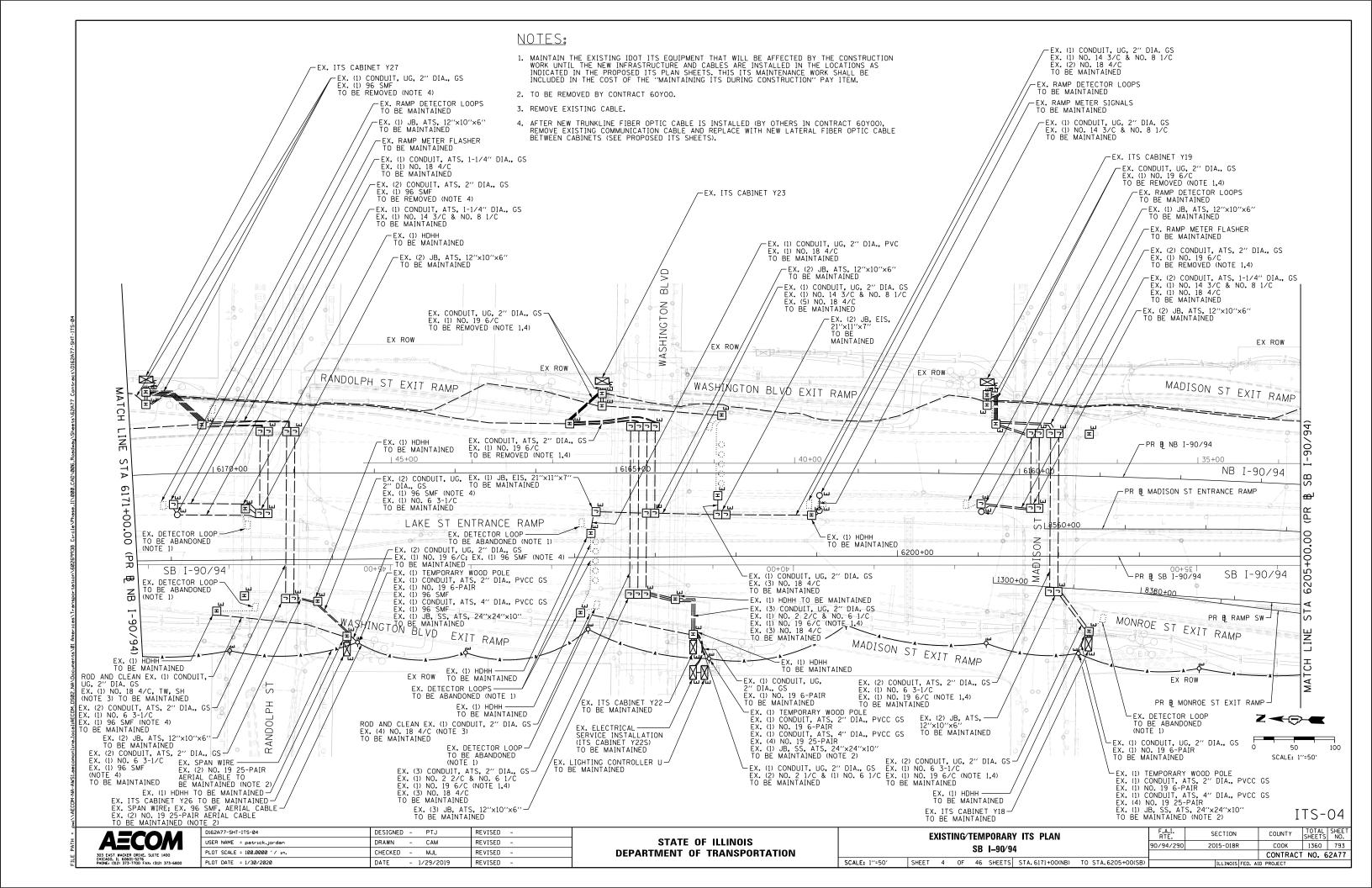
SB 1-90/94

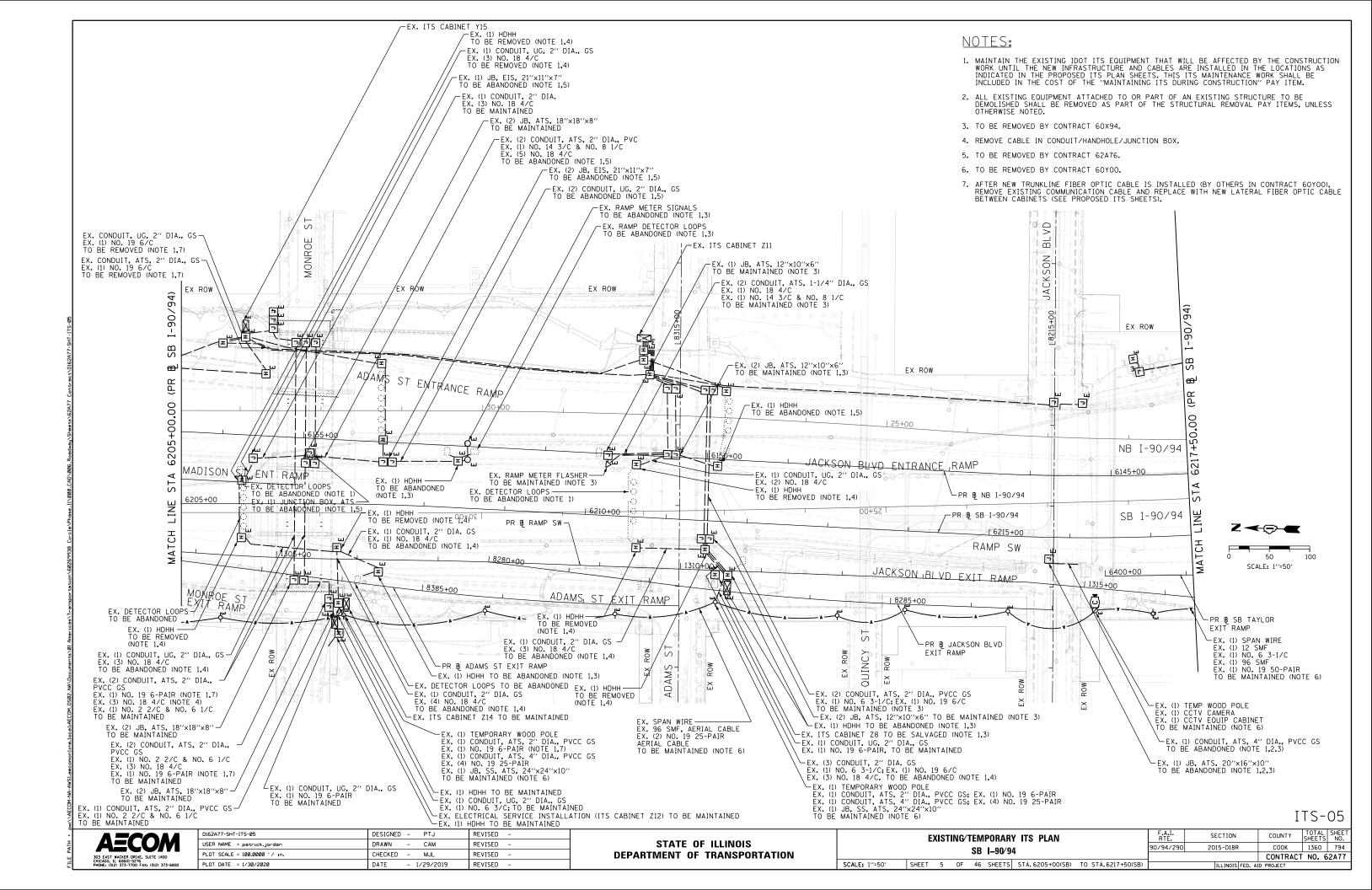
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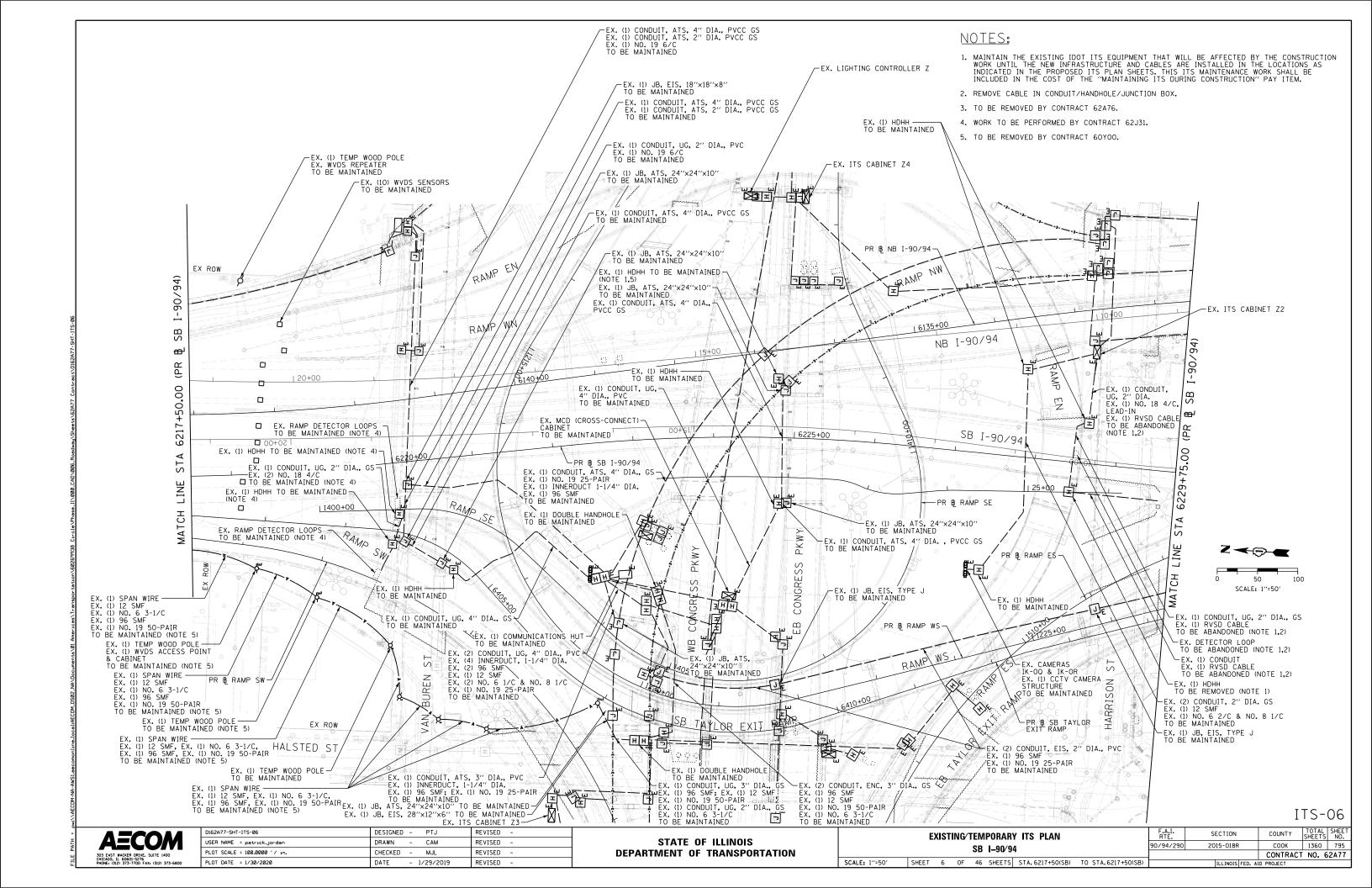
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90/94/290 2015-018R COOK 1360 791

CONTRACT NO. 62A77

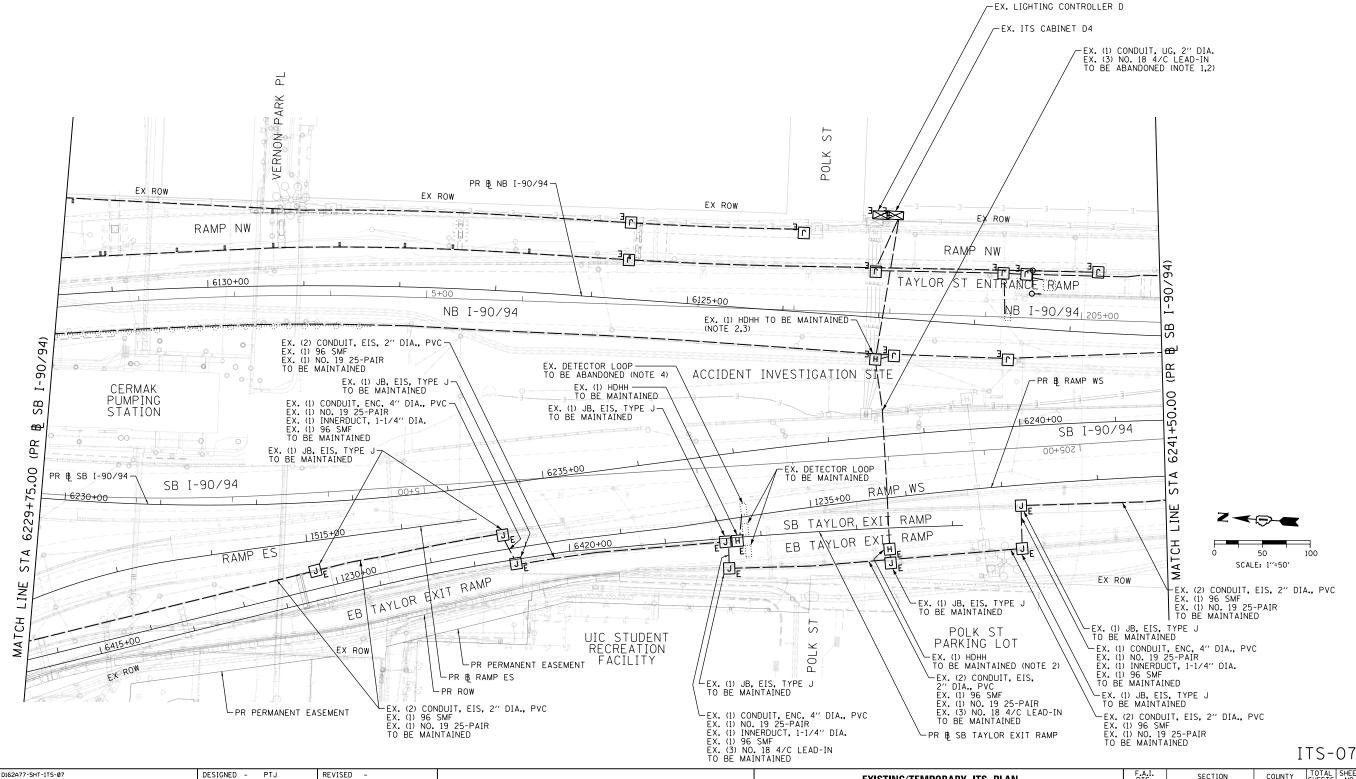








- 1. MAINTAIN THE EXISTING IDOT ITS EQUIPMENT THAT WILL BE AFFECTED BY THE CONSTRUCTION WORK UNTIL THE NEW INFRASTRUCTURE AND CABLES ARE INSTALLED IN THE LOCATIONS AS INDICATED IN THE PROPOSED ITS PLAN SHEETS. THIS ITS MAINTENANCE WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.
- 2. PULL DETECTOR LEAD-IN CABLES FROM MEDIAN HANDHOLE TO HANDHOLE ON TAYLOR STREET EXIT RAMP AT STA. 6238+50 AND COIL FOR FUTURE USE. REMOVE EXCESS CABLE AS NECESSARY, LEAVING SUFFICIENT LENGTH FOR REINSTALLATION TO PROPOSED CABINET DI (SEE PROPOSED ITS SHEETS). THIS WILL REQUIRE COORDINATION WITH CONTRACT 62A76, WHICH COILS THE CABLE IN THE MEDIAN HANDHOLE.
- 3. TO BE REMOVED BY CONTRACT 62A76.
- 4. DETECTOR LOOP TO BE REMOVED WITH RAMP WS PAVEMENT; MAINTAIN 2" GS CONDUIT ROUTED TO THE LOOP UNDER SB TAYLOR EXIT RAMP PAVEMENT.



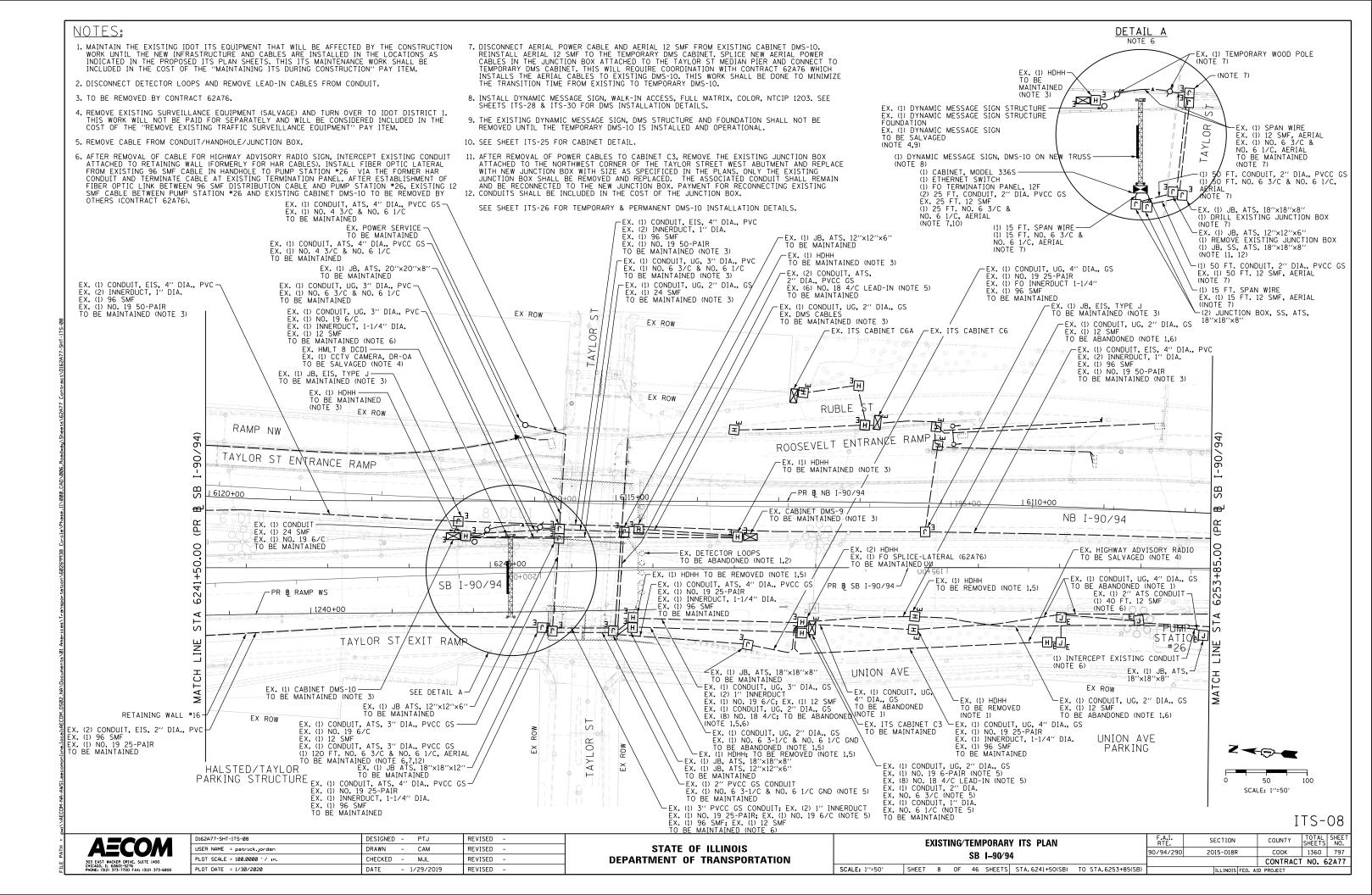
AECOM303 EAST WACKER DRIVE. SUITE 1400
CHICACO. II. 60601-5276
PHONE: 4312 373-7700 FAX. (312) 373-6800

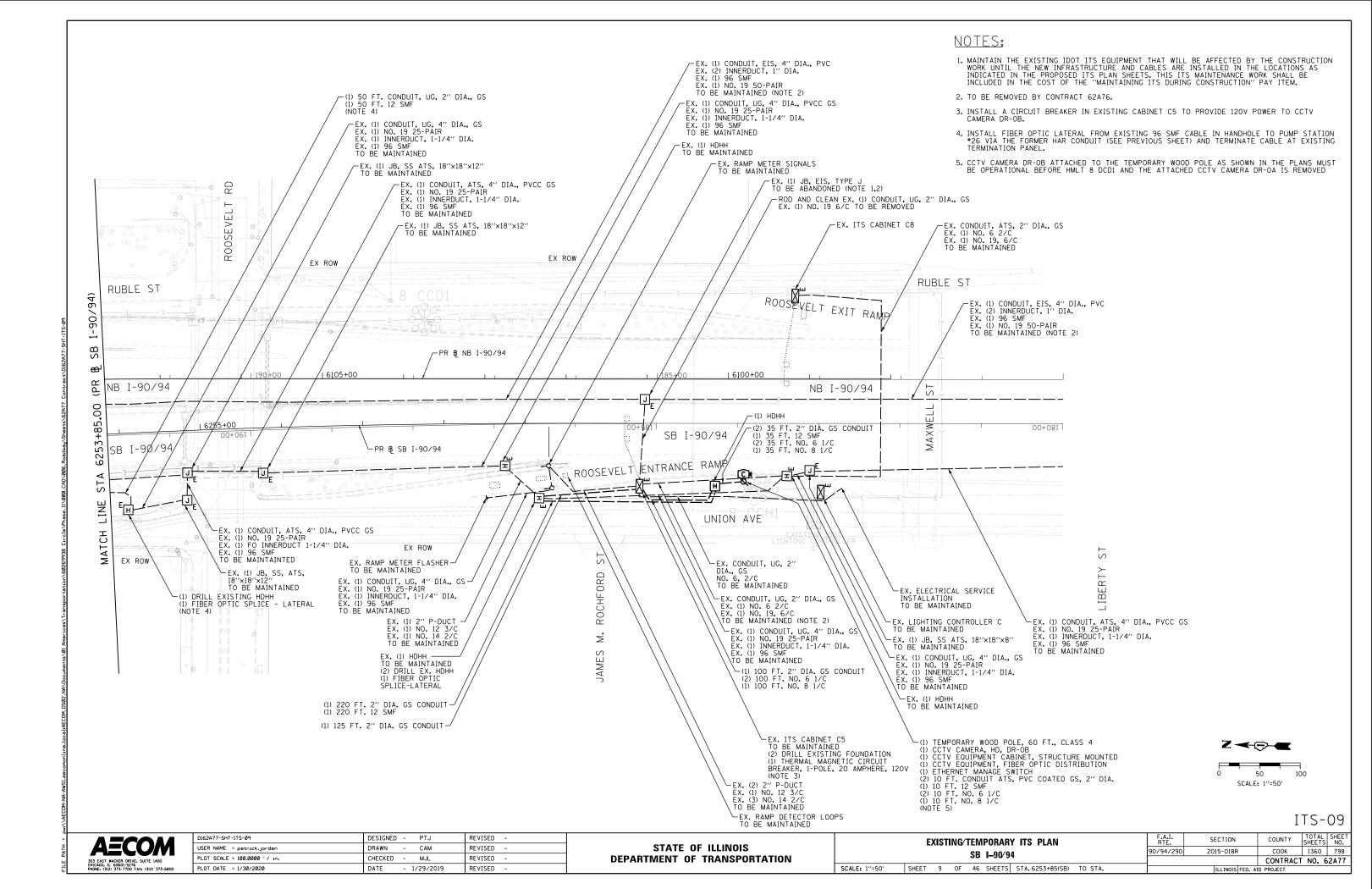
STATE OF ILLINOIS
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 EXISTING/TEMPORARY ITS PLAN

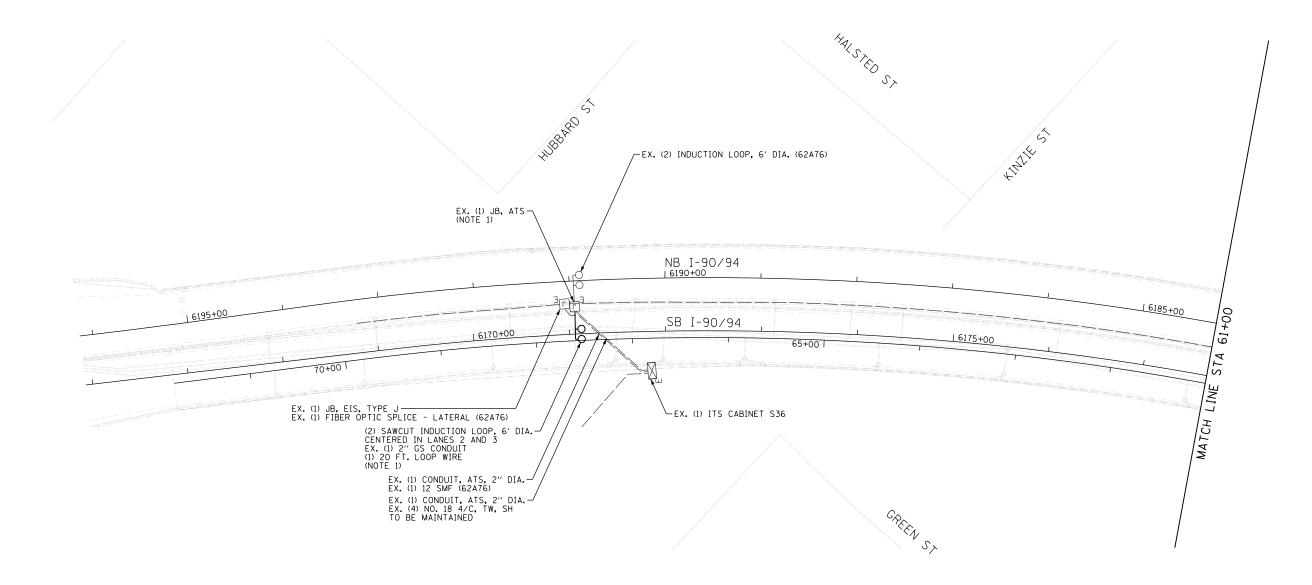
 SB
 I-90/94

 SCALE: 1"=50"
 SHEET
 7
 0F
 46
 SHEETS
 STA. 6229+75(SB)
 TO
 STA. 6241+50(SB)





1. NEW INDUCTION LOOPS TO BE SPLICED TO EXISTING LEAD-IN CABLE IN ATTACHED JUNCTION BOX. COST FOR THIS WORK IS INCLUDED IN THE ELECTRICAL CABLE PAY ITEM.



TO TO	
0 50 SCALE: 1"=50"	100

ITS-10

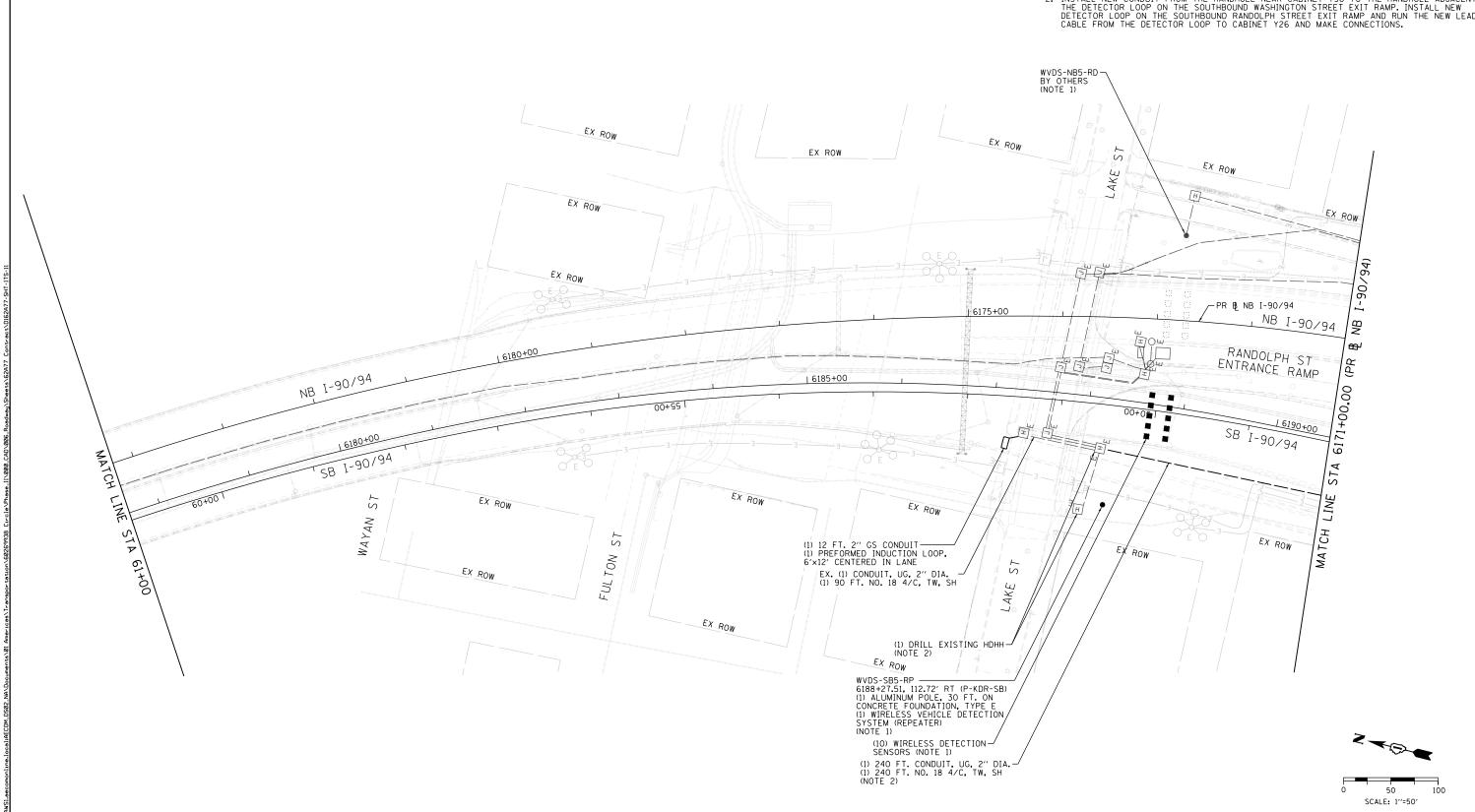
AECOM305 EAST WACKER ORIVE. SUITE 1400
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PHONE: 1312 373-7700 FAX: (312) 373-6800

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DEPARTMENT OF TRANSPORTATION

PROPOSED ITS PLAN									
SB I-90/94								90.	
				30	1-3U 3	+			
SCALE: 1"=50"	SHEET	10	0F	46	SHEETS	STA.	TO STA. 61+00		

- 1. WIRELESS VEHICLE DETECTION SENSORS SHALL BE CENTERED IN LANE. SENSORS SHALL BE SPACED 20 FT. EACH LANE. COORDINATE WVDS REPEATER INSTALLATION WITH CONTRACT 62A76, WHICH INSTALLS THE RADIO SITE (WVDS-NB5-RD).
- 2. INSTALL NEW CONDUIT FROM THE HANDHOLE NEAR CABINET Y30 TO THE HANDHOLE ADJACENT TO THE DETECTOR LOOP ON THE SOUTHBOUND WASHINGTON STREET EXIT RAMP, INSTALL NEW DETECTOR LOOP ON THE SOUTHBOUND RANDOLPH STREET EXIT RAMP AND RUN THE NEW LEAD-IN CABLE FROM THE DETECTOR LOOP TO CABINET Y26 AND MAKE CONNECTIONS.



AECOM	
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PLOT DATE = 1/30/2020	DATE - 1/29/2019	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

			PRO	POSE	D ITS	PLAN		F.A.I. RTE.	SECTION	COUNTY
				SB	I-90/9	1		90/94/290	2015-018R	соок
3D 1-3V 34										CONTRA
SCALE: 1"=50"	SHEET	11	OF	46	SHEETS	STA. 61+00	TO STA. 6171+00(NB)		ILLINOIS FED. A	ID PROJECT

COUNTY TOTAL SHEET NO.

COOK 1360 800 CONTRACT NO. 62A77

ITS-11