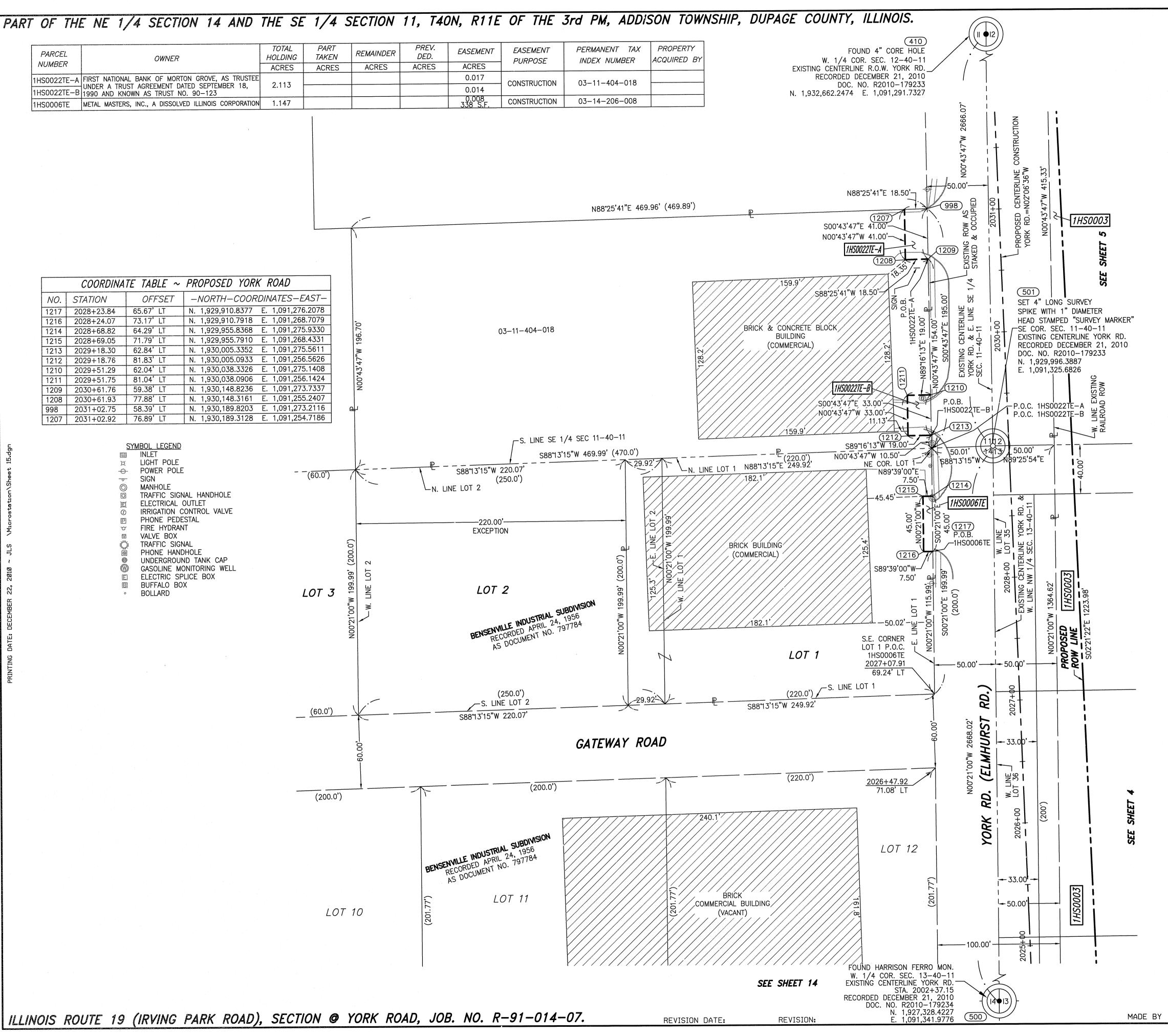
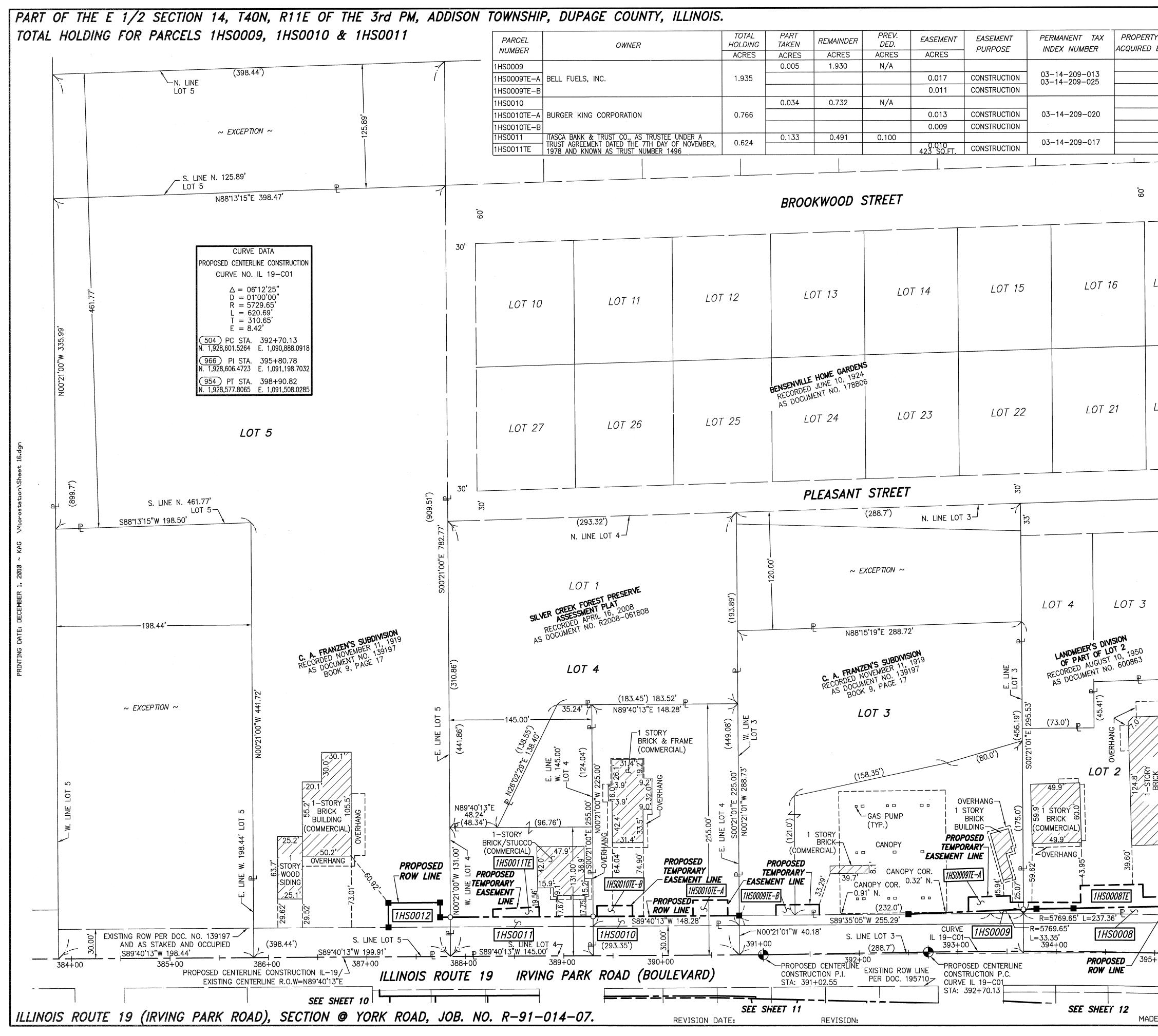
T OF THE	E NE 1/	4 SECTIO	ON 14	AND	THE S	SE 1/4	SECTION	11, T4C	DN, R11E	OF THE	3rd l
PARCEL NUMBER		OWNER			TOTAL HOLDING	G TAKEN	REMAINDER	PREV. DED.	EASEMENT	EASEMENT PURPOSE	PERM
	FIRST NATIONAL	BANK OF MORT	ON GROVE,	AS TRUSTER	ACRES	ACRES	ACRES	ACRES	ACRES 0.017	CONSTRUCTION	03-
	UNDER A TRUS	BANK OF MORT	TED SEPTEM 0. 90-123	IBER 18,	2.113				0.014		
1HS0006TE NO. S7 1217 20 1216 20 1215 20 1213 20 1214 20 1215 20 1212 20 1213 20 1214 20 1215 20 1210 20 1209 20 1208 20 998 20	METAL MASTERS, METAL MASTERS, COORDINATA 7A770N 028+23.84 028+23.84 028+24.07 028+68.82 029+51.29 029+51.29 029+51.29 029+51.29 029+51.29 029+51.75 030+61.93 031+02.75 031+02.92 S S 0 0 0 0 0 0 0 0 0 0 0 0 0	E TABLE ~ OFFSET 65.67' LT 73.17' LT 64.29' LT 71.79' LT 62.84' LT 81.83' LT 62.04' LT 81.83' LT 62.04' LT 81.04' LT 59.38' LT 77.88' LT 58.39' LT 76.89' LT 76.89' LT YMBOL LEGEND INLET LIGHT POLE POWER POLE SIGN MANHOLE TRAFFIC SIGN ELECTRICAL O IRRIGATION C PHONE PEDE SIGN MANHOLE TRAFFIC SIGN ELECTRICAL O IRRIGATION C PHONE PEDE FIRE HYDRAN VALVE BOX TRAFFIC SIGN PHONE HAND UNDERGROUN	ED ILLINOIS C PROPOS NORT/ N. 1,929,9 N. 1,929,9 N. 1,929,9 N. 1,929,9 N. 1,929,9 N. 1,930, N. 1,90	ED YORI H-COOR 910.8377 910.7918 955.8368 955.7910 005.3352 005.0933 038.3326 038.3326 038.0906 148.8236 148.3161 189.3128 005.0933 DLE LVE	I.147 K ROAD DINATES E. 1,091, E. 1,091,	276.2078 268.7079 275.9330 268.4331 275.5611 256.5626 275.1408 256.1424 273.7337 255.2407 273.2116	(200.0') P N00'43'47"W 196.70'		S88'13'15"W		
	Les E E E E C A		ND TANK CA DNITORING V LICE BOX	AP WELL		LOT 3	60.00		(250.0') E LOT 2	5UBDIVISION 1956 797784 797784
							60				
						(200.0')			(200.0')	
						LO	Τ 10	BENSEL (201.77')		AL SUBDIVISION 24, 1956 10. 797784 OT 11	
	IITE 10	(IRVING	PARK	ROAD), SEC	TION @	YORK RO	DAD, JOE	3. NO. R	-91-014	-07.



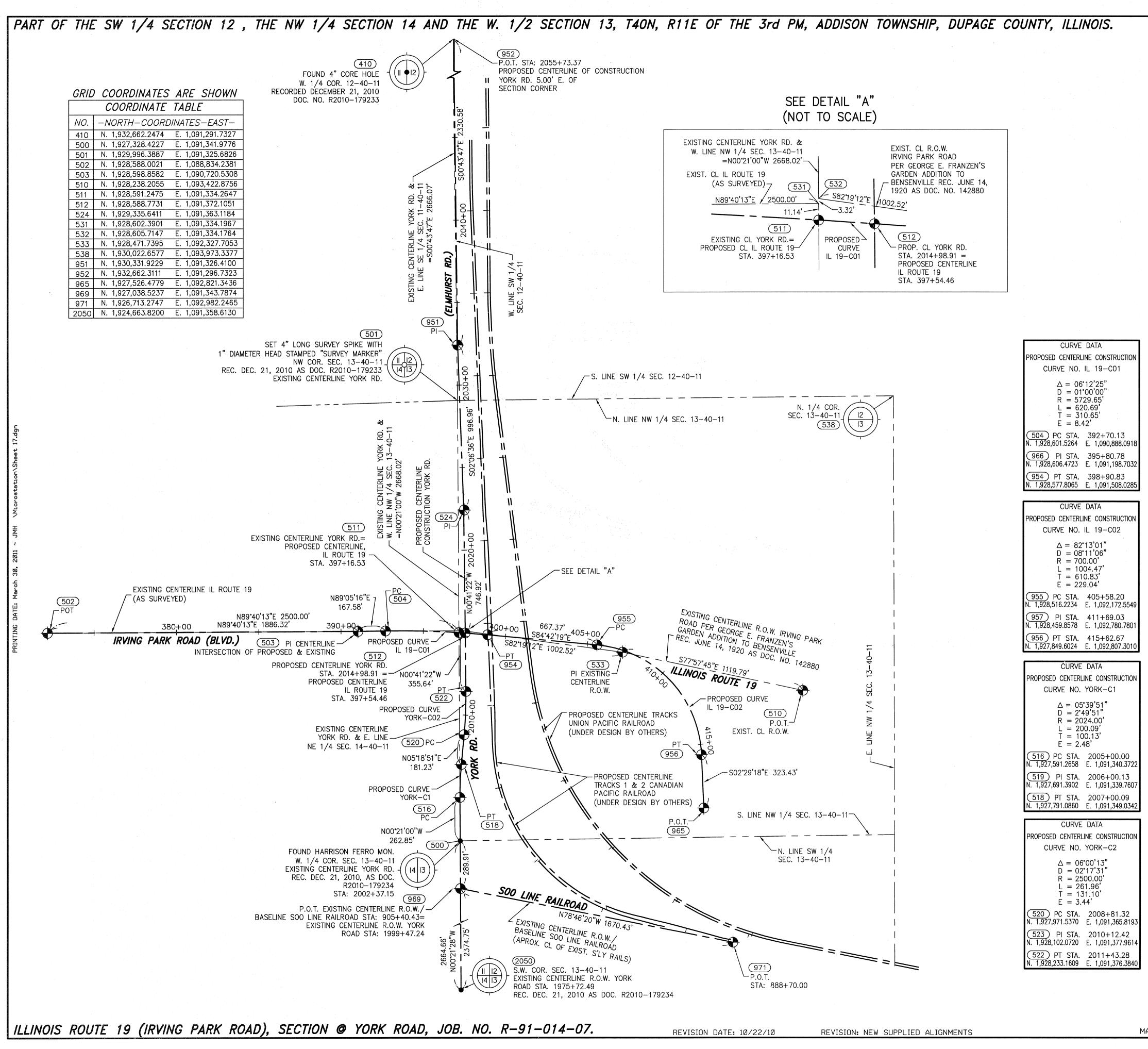
			a ang salawa ng tang salawa ng tang salawa ng tang	
	LEGENI			
9 10 16 15 SECTION CORNER		- (16 15)-	QUARTER SECTION CORNER	
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	ARENT PROPERTY LINE TING CENTERLINE POSED CENTERLINE TING RIGHT OF WAY LINE POSED RIGHT OF WAY LINE POSED EASEMENT			SS ARE BASED ON PLANE COORDINATE CONE, N.A.D. 83 (20
129.32' (COMP) COM	SURED DIMENSION PUTED DIMENSION DRD DATA			BEARING STATE F EAST Z(
	TING BUILDING			
T2 SET 5/8 INCH RE	OR SET PK FERENCE FOUND OR SE BAR FLUSH WITH GROUN	FOUND PK T MONUMENT D TO TIE F	ATION . OUND IRON S	K SET PK NAIL
 BTI THESE STAKES, IN BT2 BURIED 5\8 INCH 	CULTIVATED AREAS, RE REBAR 20 INCHES BEL ORED PLASTIC CAP BEA	FERENCE FO	UND OR SET TO TIE FOU	MONUMENTATION. ND IRON STAKE.
STAKING OF PROP SET DIVISION OF	OSED RIGHT OF WAY. HIGHWAYS SURVEY MARK CRIPTION DATA AND SUF	ER TO MON	UMENT THE	POSITION SHOWN.
BURIED 5/8 INCH	OSED RIGHT OF WAY IN REBAR 20 INCHES BEI I. IDENTIFIED BY COLO MBER.	LOW GROUN	D TO MARK	FUTURE SURVEY NNG SURVEYORS
RIGHT OF WAY ST	EY MARKER. IDOT STD. AKING PROPOSED TO BE		SET BY OTI	HERS)
	COORDINATES SHOWN HERE DINATE SYSTEM EAST ZON			
O	40 80	120	,	
	SCALE : 1" = 40'			
STATE OF ILLINOIS)				
PROFESSIONAL DESIGN SURVEYED THE PLAT ON NORTH, RANGE II EAST SURVEY IS TRUE AND BELIEF, THAT THE PLA FOUND AND ESTABLISH SHOWN THEREON AND TO BE RETRACED. TH STANDARDS FOR A BOI TRANSPORTATION, STA	AT WE, CLAASSEN, WHI FIRM LAND SURVEYING O OF HIGHWAYS SHOWN HEF OF THE THIRD PRINCIPA COMPLETE AS SHOWN TO T CORRECTLY REPRESEN ED ARE OF PERMANENT THAT THE MONUMENTS A IS SURVEY CONFORMS T JNDARY SURVEY. MADE TE OF ILLINOIS.	CORPORATION REON IN SEC AL MERIDIAN, O THE BEST NTS SAID SL QUALITY AN ARE SUFFICIE TO THE CURF FOR THE D	I NUMBER 184 TIONS II AND DUPAGE COU OF MY KNO IRVEY, THAT ID OCCUPY T INT TO ENAB RENT ILLINOIS DEPARTMENT	-004039, HAVE 14, TOWNSHIP 40 JNTY, THAT THE WLEDGE AND ALL MONUMENTS HE POSITIONS LE THE SURVEY MINIMUM OF
LICENSE EXPIRES NOVE THIS PROFESSIONAL SE	VICE PRESID LAND SURVEYOR NO. O MBER 30, 2012 RVICE CONFORMS TO TH IUM STANDARDS FOR A	35-002962	PROFESS	A. CLAASSEN C DIET, IL IO. 2962
	IZI AII JOLIE	laassen, W Associates, RPORT DRIVE ET, ILLINOIS (815) 744-37	F.C. I, UNIT I 60431	RECEIVED pl OCT 2 4 2011 ATS & LEGALS
			IIGHWAY ILLINOIS	
660)	DEPARTMEN	VT OF 1		
#5700 (ORIGINAL #5660)	SECTION @ YORK ROA PROJECT STATION 2025+00	D	JOB NO	COUNTY R-91-014-07 TION 2031+50
700 (ORI	SCALE: " = 40'	AU OF IAN		<u> 15 </u> 0F <u> </u>
12 10B 10	20	1 WEST CE	NTER COURT NOIS 60196-	Γ



	OWNER	TOTAL HOLDING	PART TAKEN	REMAINDER	PREV. DED.	EASEMENT	EASEMENT PURPOSE	PERMANENT TAX INDEX NUMBER	PROPERTY ACQUIRED B
		ACRES	ACRES	ACRES	ACRES ACRES		PURPUSE	INDEA NOMBER	ACQUINED
			0.005	1.930	N/A				
-A	BELL FUELS, INC.	1.935				0.017	CONSTRUCTION	03-14-209-013 03-14-209-025	
-B						0.011	CONSTRUCTION	00 11 200 020	
			0.034	0.732	N/A				
-A	BURGER KING CORPORATION	0.766				0.013	CONSTRUCTION	03-14-209-020	
-B						0.009	CONSTRUCTION		
	ITASCA BANK & TRUST CO., AS TRUSTEE UNDER A TRUST AGREEMENT DATED THE 7TH DAY OF NOVEMBER,	0.624	0.133	0.491	0.100			03-14-209-017	
	1978 AND KNOWN AS TRUST NUMBER 1496	0.024				0.010 423 SQ.FT.	CONSTRUCTION	05-14-203-017	

							1
10	LOT 11	LOT 12	LOT 13	LOT 14	LOT 15	LOT 16	L
27	LOT 26	LOT 25	BENSENVILLE HOME GARDENS RECORDED JUNE 10, 1924 AS DOCUMENT NO. 178800 LOT 24	6 LOT 23	LOT 22	LOT 21	L

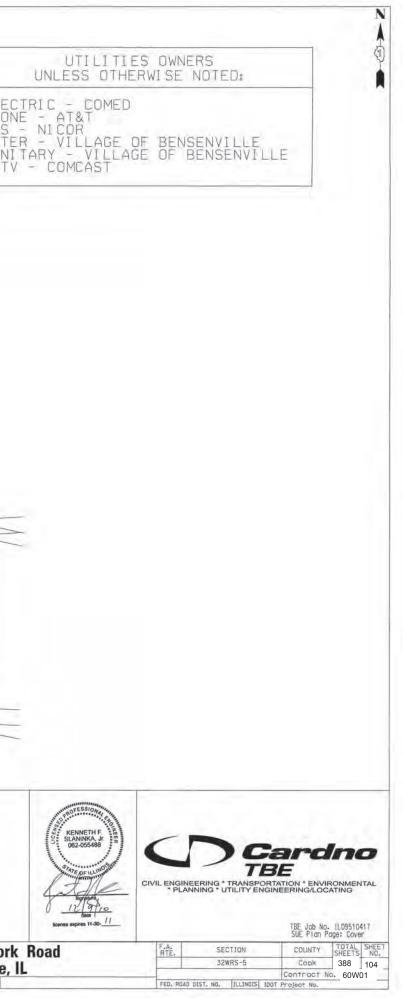
	LEGEND
ντγ D BY	9 10 SECTION CORNER GUARTER SECTION CORNER
	SECTION LINE QUARTER SECTION LINE N N N QUARTER, QUARTER SECTION LINE QUARTER, QUARTER SECTION LINE N N N PL PROPERTY (DEED) LINE N N N N N QUARTER, QUARTER SECTION LINE PROPERTY (DEED) LINE N </th
	EXISTING BUILDING
LOT 17	 IRON PIPE OR ROD FOUND O SET 5/8" × 30" REBAR CUT CROSS FOUND OR SET PK FOUND PK NAIL OPK SET PK NAIL TI THESE STAKES REFERENCE FOUND OR SET MONUMENTATION . SET 5/8 INCH REBAR FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP AND BEARING SURVEYORS PROFESSIONAL NUMBER. BTI THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BT2 BURIED 5\8 INCH REBAR 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. BT3 IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.
	STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN.
LOT 20	IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS PROFESSIONAL NUMBER. M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS PROFESSIONAL NUMBER.
	 PERMANENT SURVEY MARKER. IDOT STD. 2I35 (TO BE SET BY OTHERS) RIGHT OF WAY STAKING PROPOSED TO BE SET. NOTES: 1) BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83, (2007).
	0 50 100 150 SCALE : 1" = 50'
(,0.57)	STATE OF ILLINOIS) SS COUNTY OF WILL) THIS IS TO CERTIFY THAT WE, CLAASSEN, WHITE & ASSOCIATES, P.C., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION NUMBER 184-004039, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 14, TOWNSHIP 40 NORTH, RANGE II EAST OF THE THIRD PRINCIPAL MERIDIAN, DUPAGE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. THIS SURVEY CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS. DATED AT JOLIET, ILLINOIS THIS DAY OF, 2010 A.D.
BRICK (COMMERCIAL)	ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-002962 LICENSE EXPIRES NOVEMBER 30, 2012 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
_101.3'	Claassen, White & Associates, P.C. III AIRPORT DRIVE, UNIT / OCT 2 4 2011 OCT 2 4 2011
5+00	PLAT OF HIGHWAYS STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 19 VIII000 SECTION @ YORK ROAD DUPAGE COUNTY PROJECT JOB NO. R-9I-014-07 STATION 384+00 SCALE: I" = 50'
DE BY	BUREAU OF LAND ACQUISITION # 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

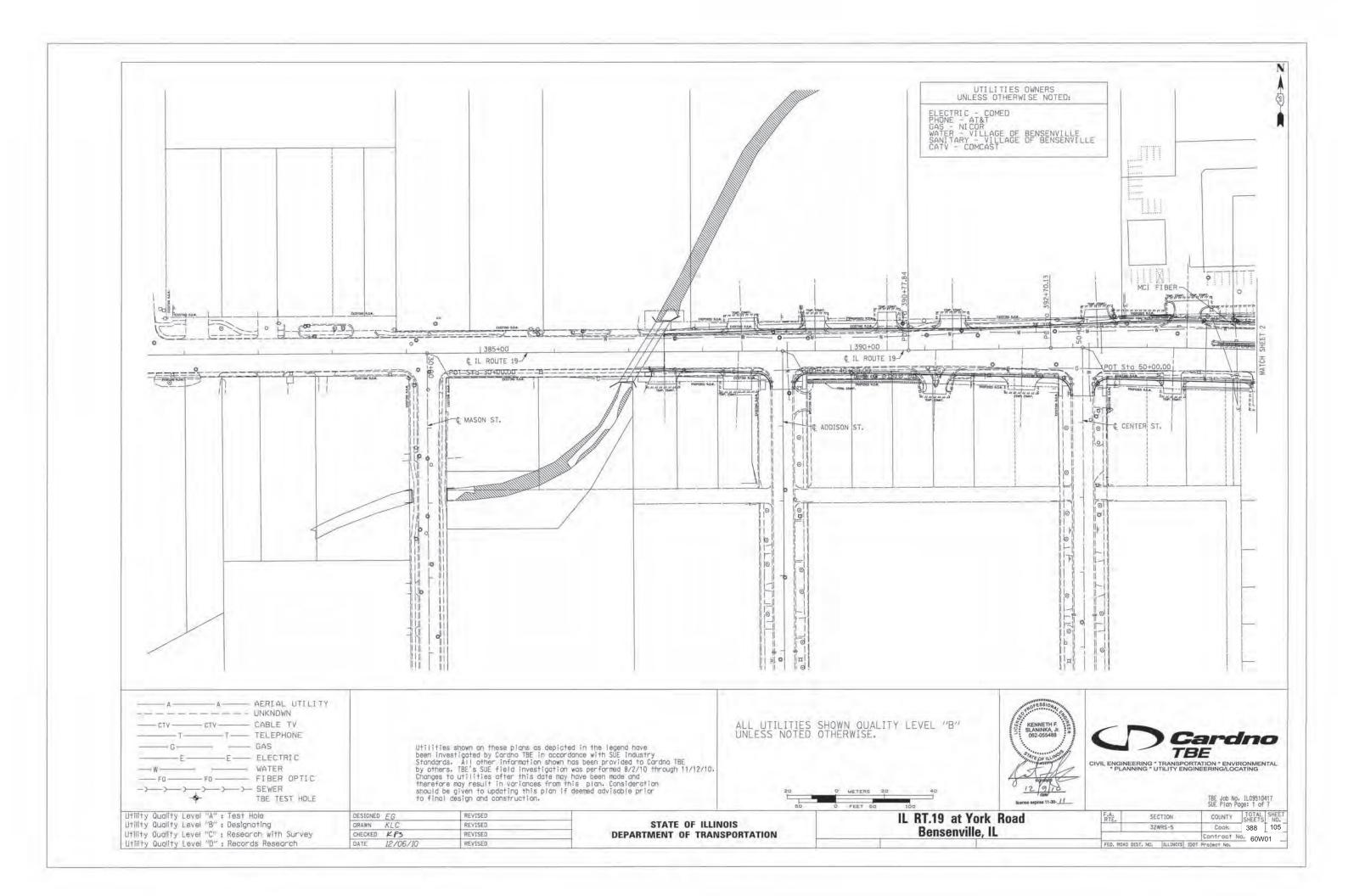


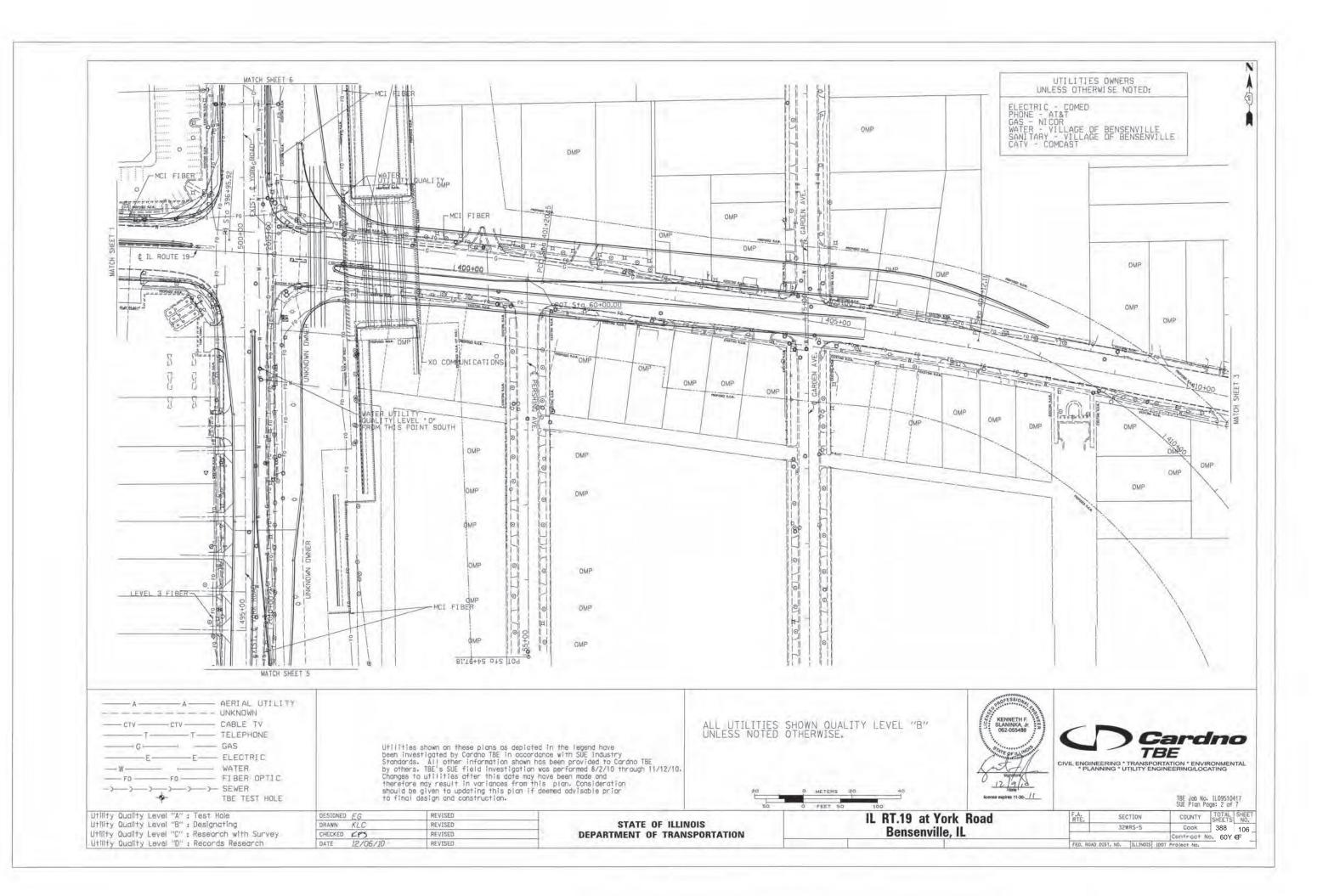
MADE BY K.A.G.

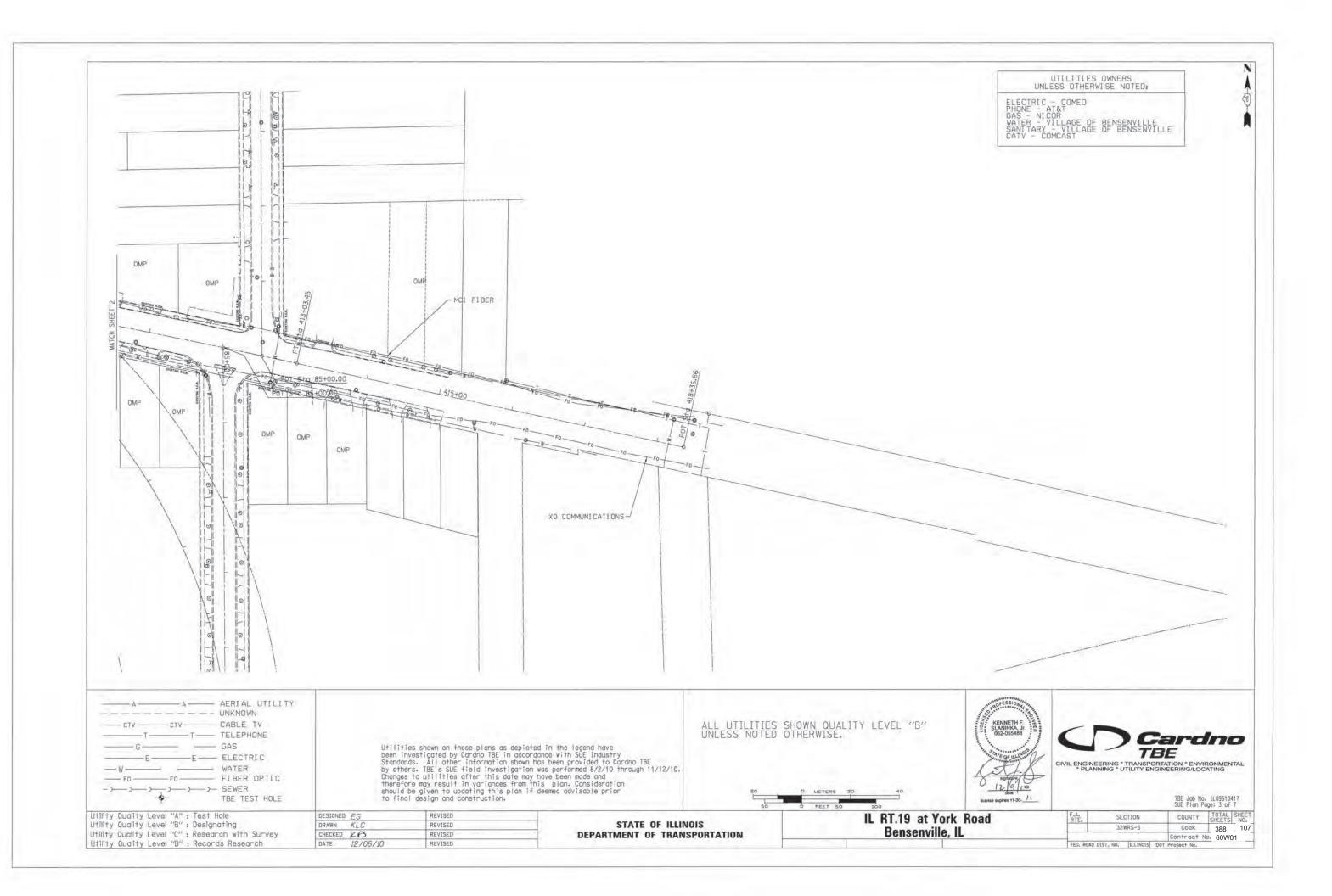
	LEGEND		
		QUARTER	
(9 10) SECTION (16 15) CORNER	- (16 15)	- SECTION CORNER	
QUARTER, C	ECTION LINE QUARTER SECTION LINE OT LINE	ON ILLINOIS VATE SYSTEM (2007)	
EXISTING CE PROPOSED EXISTING RI	CENTERLINE GHT OF WAY LINE RIGHT OF WAY LINE EASEMENT DIMENSION DIMENSION	BEARINGS ARE BASED ON STATE PLANE COORDINATE EAST ZONE, N.A.D. 83 (20	
	BUILDING		
IRON PIPE OR ROD FOUND	O SET 5/8"	× 30" REBAR	
T2 SET 5/8 INCH REBAR FLU	E FOUND OR SET MONUMEN JSH WITH GROUND TO TIE	NAIL O _{PK} SET PK NAIL NTATION FOUND IRON STAKE. IDENTIFIED ORS PROFESSIONAL NUMBER.	
 BTI THESE STAKES, IN CULTIV BT2 BURIED 5\8 INCH REBAR BT3 IDENTIFIED BY COLORED P 	20 INCHES BELOW GROUN		
		NUMENT THE POSITION SHOWN. ROFESSIONAL NUMBER.	8
BURIED 5/8 INCH REBAR		ED AREAS. ND TO MARK FUTURE SURVEY TIC CAP BEARING SURVEYORS	
PERMANENT SURVEY MARK	KER. IDOT STD. 2135 (TO B	E SET BY OTHERS)	
□ RIGHT OF WAY STAKING P	ROPOSED TO BE SET.		
	0 300	600 900	
	SCALE .	: 1" = 300'	
NOTES: 1) BEARINGS AN	ID COORDINATES SHOWN HERE	ON ARE BASED ON ILLINOIS	
STATE PLANE C	OORDINATE SYSTEM EAST ZON	IE, NAD 83, (2007).	
STATE OF ILLINOIS)			
STATE OF ILLINOIS) SS COUNTY OF WILL)			
THIS IS TO CERTIFY THAT WE, PROFESSIONAL DESIGN FIRM LAN SURVEYED THE PLAT OF HIGHW NORTH, RANGE II EAST OF THE SURVEY IS TRUE AND COMPLET BELIEF, THAT THE PLAT CORRE FOUND AND ESTABLISHED ARE SHOWN THEREON AND THAT TH	ND SURVEYING CORPORATION AYS SHOWN HEREON IN SEC THIRD PRINCIPAL MERIDIAN E AS SHOWN TO THE BES CCTLY REPRESENTS SAID S	N NUMBER 184-004039, HAVE CTIONS 12 AND 13, TOWNSHIP 4 I, DUPAGE COUNTY, THAT THE T OF MY KNOWLEDGE AND URVEY, THAT ALL MONUMENTS ND OCCUPY THE POSITIONS	0
TO BE RETRACED. THIS SURVE STANDARDS FOR A BOUNDARY TRANSPORTATION, STATE OF IL	E MONUMENTS ARE SUFFICI EY CONFORMS TO THE CUR SURVEY. MADE FOR THE	RENT ILLINOIS MINIMUM	
STANDARDS FOR A BOUNDARY	E MONUMENTS ARE SUFFICI EY CONFORMS TO THE CUR SURVEY. MADE FOR THE LINOIS.	RENT ILLINOIS MINIMUM DEPARTMENT OF	
STANDARDS FOR A BOUNDARY TRANSPORTATION, STATE OF IL DATED AT JOLIET, ILLINOIS THIS	E MONUMENTS ARE SUFFICI EY CONFORMS TO THE CUR SURVEY. MADE FOR THE LINOIS. S DAY OF VICE PRESIDENT URVEYOR NO. 035-002962 0, 2012 DNFORMS TO THE	RENT ILLINOIS MINIMUM DEPARTMENT OF	
STANDARDS FOR A BOUNDARY TRANSPORTATION, STATE OF IL DATED AT JOLIET, ILLINOIS THIS DAVID A. CLAASSEN ILLINOIS PROFESSIONAL LAND SU LICENSE EXPIRES NOVEMBER 30 THIS PROFESSIONAL SERVICE CO CURRENT ILLINOIS MINIMUM STAN	E MONUMENTS ARE SUFFICI EY CONFORMS TO THE CUR SURVEY. MADE FOR THE LINOIS. S DAY OF VICE PRESIDENT URVEYOR NO. 035-002962 0, 2012 DNFORMS TO THE	RENT ILLINOIS MINIMUM DEPARTMENT OF , 2010 A.D. , 2010 A.D. , 2010 A.D. , 0 0 0 0 0 , 0 0 0 0 0 , 0 0 0 0 0 , 0 0 0 0	
STANDARDS FOR A BOUNDARY TRANSPORTATION, STATE OF IL DATED AT JOLIET, ILLINOIS THIS DAVID A. CLAASSEN ILLINOIS PROFESSIONAL LAND SI LICENSE EXPIRES NOVEMBER 30 THIS PROFESSIONAL SERVICE CO CURRENT ILLINOIS MINIMUM STAT BOUNDARY SURVEY.	E MONUMENTS ARE SUFFICI EY CONFORMS TO THE CUR SURVEY. MADE FOR THE LINOIS. S DAY OF VICE PRESIDENT URVEYOR NO. 035-002962 (, 2012) DNFORMS TO THE NDARDS FOR A Claassen, White & NDARDS FOR A Claassen, White & NDARDS FOR A CLAASSEN, White & NDARDS FOR A PLAT OF STATE OF STATE OF	RENT ILLINOIS MINIMUM DEPARTMENT OF , 2010 A.D. , 2010 A.D. , 2010 A.D. , 2010 A.D. , 0 0 0 0 0 0 , 0 0 0 0 0 0 , 0 0 0 0 0	
STANDARDS FOR A BOUNDARY TRANSPORTATION, STATE OF IL DATED AT JOLIET, ILLINOIS THIS DAVID A. CLAASSEN ILLINOIS PROFESSIONAL LAND SU LICENSE EXPIRES NOVEMBER 30 THIS PROFESSIONAL SERVICE CO CURRENT ILLINOIS MINIMUM STAT BOUNDARY SURVEY.	E MONUMENTS ARE SUFFICI EY CONFORMS TO THE CUR SURVEY. MADE FOR THE LINOIS. S DAY OF VICE PRESIDENT URVEYOR NO. 035-002962 ONFORMS TO THE NDARDS FOR A Claassen, White & I2I AIRPORT D. JOLIET, ILLIN (815) 744 PLAT OF STATE OF STATE OF ILLINOIS & N @ YORK ROAD ECT ON	RENT ILLINOIS MINIMUM DEPARTMENT OF , 2010 A.D. , 2010 A.D. , 2010 A.D. , 0 0 0 0 0 , 0 0 0 0 0 , 0 0 0 0 0 , 0 0 0 0	
STANDARDS FOR A BOUNDARY TRANSPORTATION, STATE OF IL DATED AT JOLIET, ILLINOIS THIS DAVID A. CLAASSEN ILLINOIS PROFESSIONAL LAND SU LICENSE EXPIRES NOVEMBER 30 THIS PROFESSIONAL SERVICE CO CURRENT ILLINOIS MINIMUM STAT BOUNDARY SURVEY.	E MONUMENTS ARE SUFFICI EY CONFORMS TO THE CUR SURVEY. MADE FOR THE LINOIS. S DAY OF VICE PRESIDENT URVEYOR NO. 035-002962 (2012) ONFORMS TO THE NDARDS FOR A Claassen, White & 121 AIRPORT DA JOLIET, ILLIN (815) 744 PLAT OF A STATE OF STATE OF ILLINOIS FOR N @ YORK ROAD ECT	RENT ILLINOIS MINIMUM DEPARTMENT OF , 2010 A.D. , 2010	

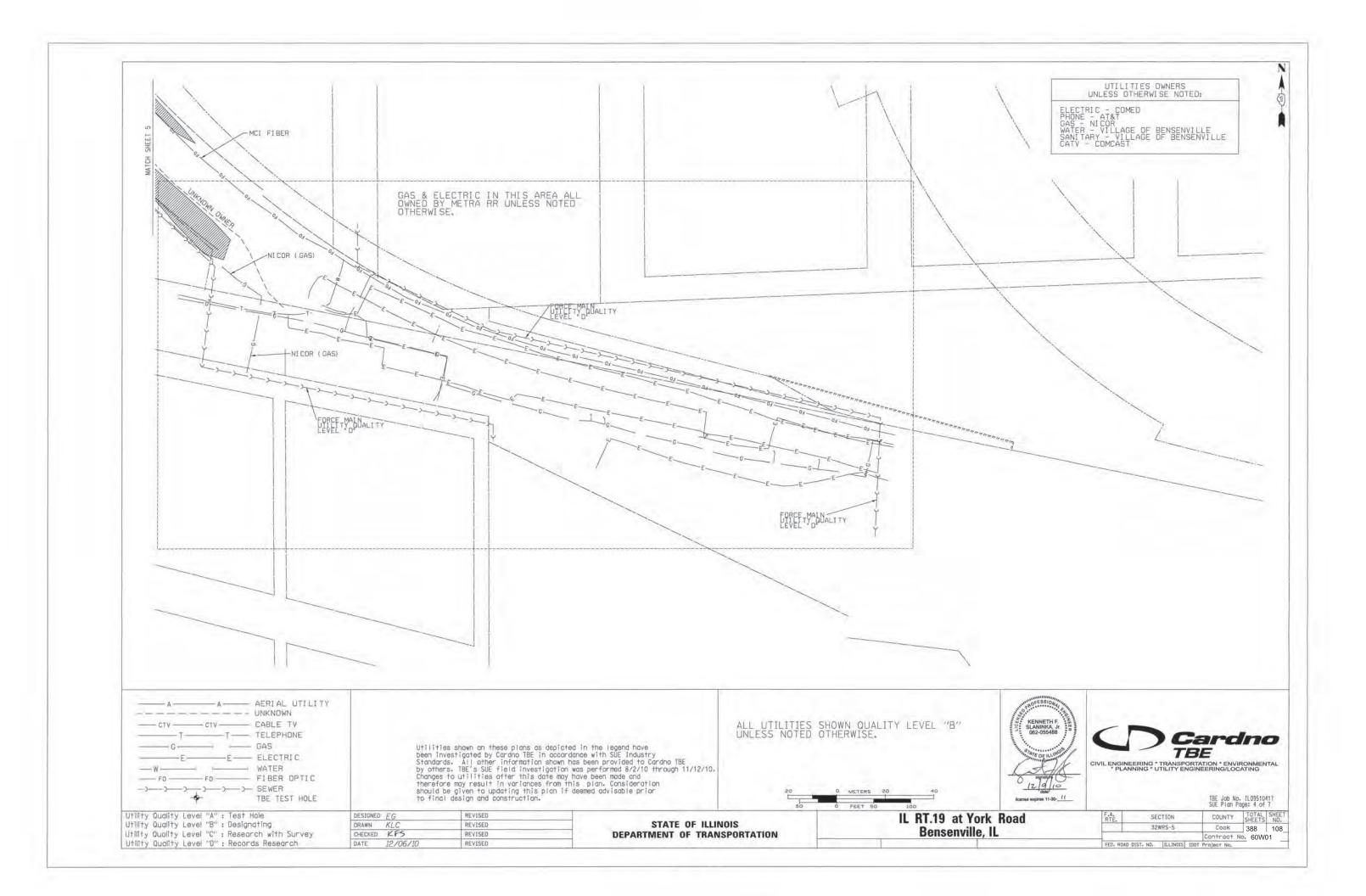
G G GAS Utilities shown on these plans as depicted in the legend have E E E E E W W WATER WATER Standards, All other information shown has been provided to Cardno T8E F0 F0 F0 F1 BER OPTIC Changes to utilities after this date may have been made and W TBE TEST HOLE TBE TEST HOLE Utilities after to updation wis plan. If deemed advisable prior	20 0 METERS 20 40 50 0 FEET 50 100
A A AERIAL UTILITY A A AERIAL UTILITY C C CABLE TV T T T C GAS Utilities shown on these plans as depicted in the legend have E E ELECTRIC Standards. All other information shown has been provided to Cardno TBE	ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE,

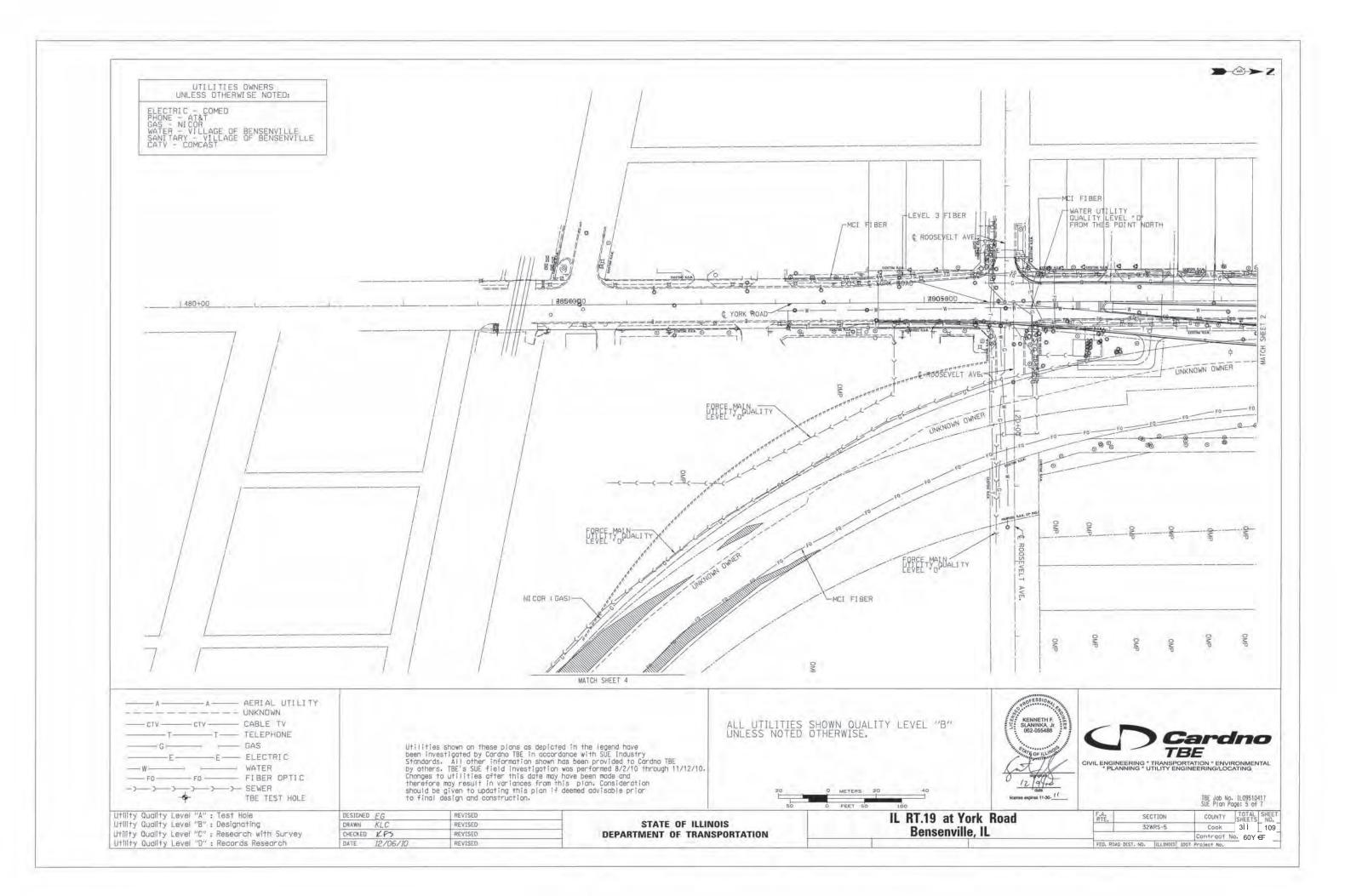


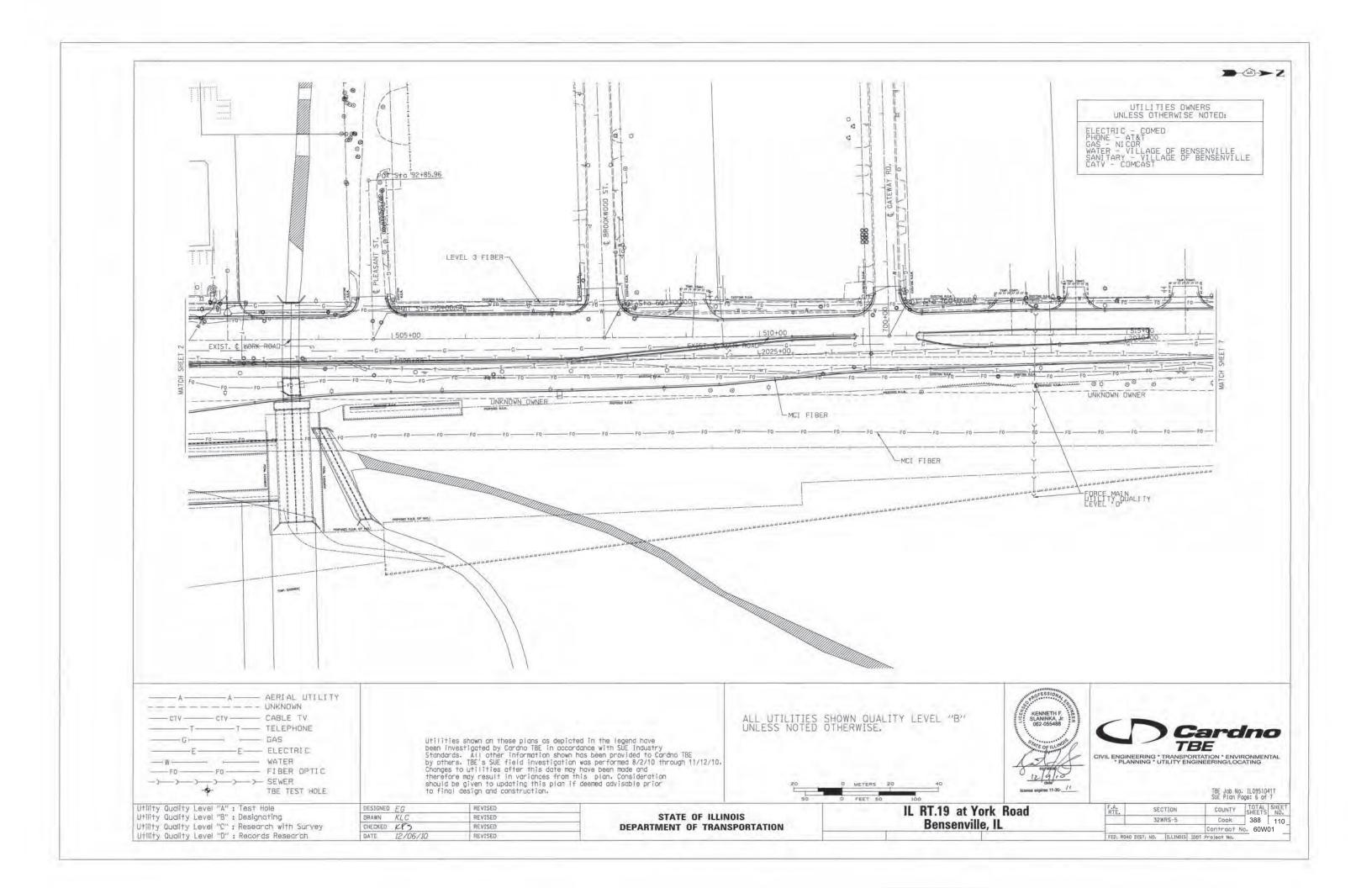




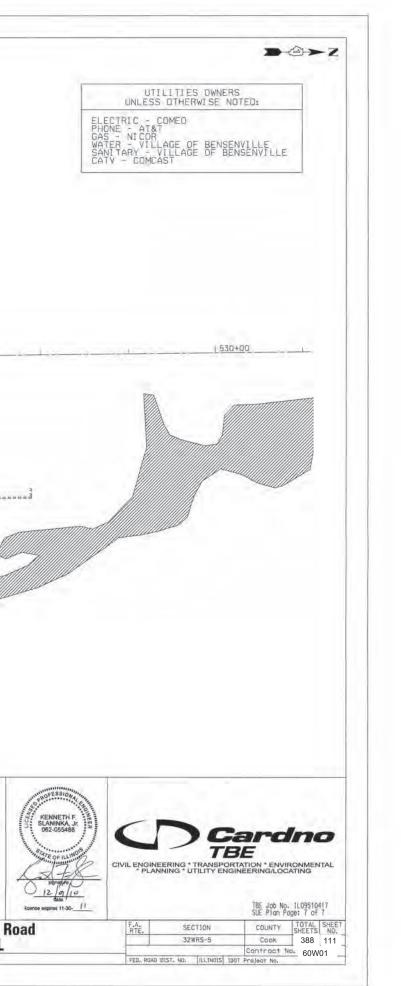






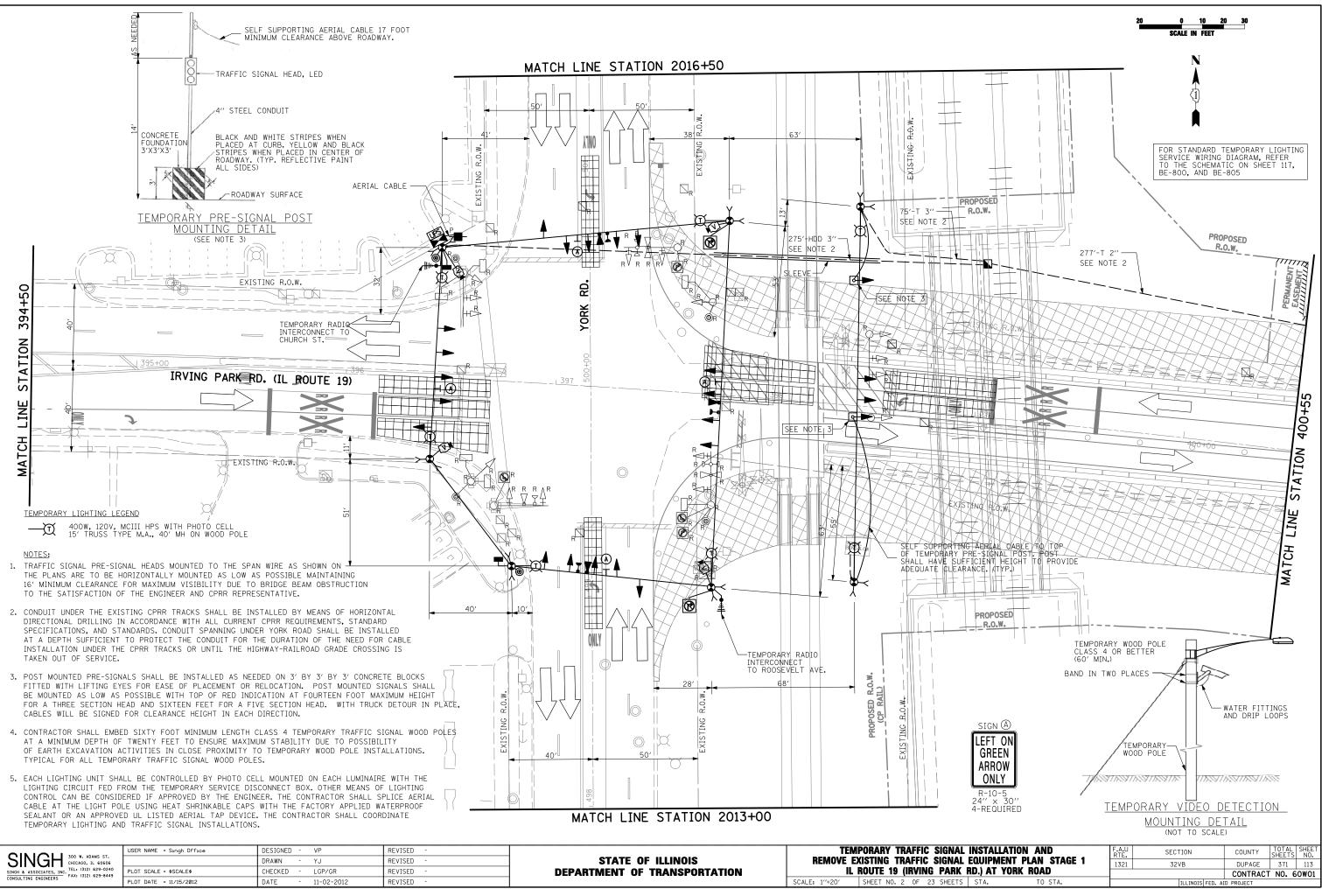


LEVEL 3 FIBER			an	86-L0+9
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EXIST. & YORK ROAD	<u>1_5635</u> 486 <u>1</u>		1 525+00	
		<u> </u>	F0 F0 F0 F0	F0 F0 F0
	ф			UNKNOWN OWNER
50 50 50 50 50 50	F0 F0F0 F0	F0 F0F0 F0	FQ	F0
F0 F0 F0 F0 F0 F0	-10			
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THE R. P. LEWIS CO., NO. 10, NO	ан а			
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A AERIAL UTILITY A AERIAL UTILITY UNKNOWN CTV CABLE TY		s as depicted in the legend have BE in accordance with SUE Industry tion shown has been provided to Cardno TBE vestigation was performed 8/2/10 through 11/12/ is date may have been made and notes from this plan. Consideration his plan. if deemed advisable prior ion.	ALL UTILITIES SHO UNLESS NOTED OTH	

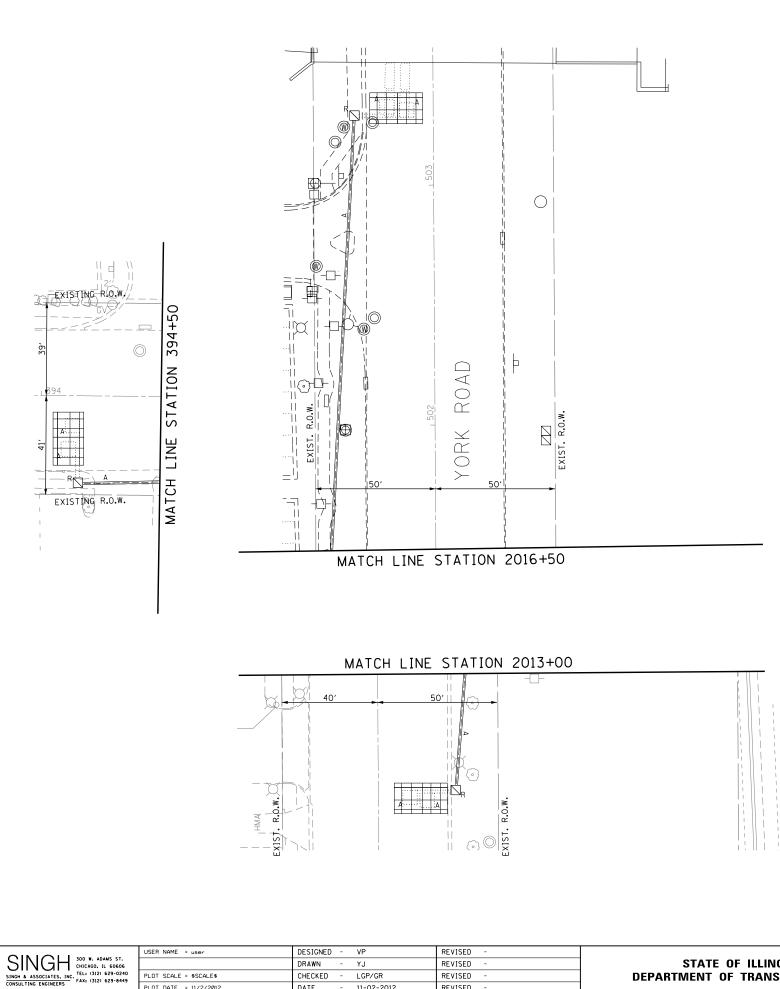


				TRAFFIC S	SIGNAL	. LEGEN	ID				
M	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
TROLLER CABINET		\bowtie		EMERGENCY VEHICLE LIGHT DETECTOR	R	\leqslant		ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		—(ī)—	-0-
ROAD CONTROL CABINET	<u> </u>		⋗⋖	CONFIRMATION BEACON	Ro-(]	0(]	ы	NO. 14 17C, UNLESS NOTED OTHERWISE		70	-
MUNICATIONS CABINET	CCR	ECC	CC		R			COAXIAL CABLE		— <u>c</u>	—©—
TER CONTROLLER		EMC	MC	HANDHOLE						~	
TER MASTER CONTROLLER		EMMC	MMC	HEAVY DUTY HANDHOLE	R	Н	H	VENDOR CABLE FOR CAMERA		—(v)—	—Ø—
TERRUPTIBLE POWER SUPPLY	UPS	EUPS	UPS	DOUBLE HANDHOLE	R			COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		-6-	-6-
/ICE INSTALLATION, POLE OR (G) GROUND MOUNT	-0- ^R	- <u>_</u> _	- ⊞ ^P	JUNCTION BOX	RO	Ø	()	FIBER OPTIC CABLE		-29-	
		P	Р	GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				NO. 62.5/125, MM12F			
POLE OR (G) GROUND MOUNT	R	۴ T	۳ I	TEMPORARY SPAN WIRE, TETHER WIRE,	R			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		-949-	-245-
EL MAST ARM ASSEMBLY AND POLE	R	0	•	AND CABLE				FIBER OPTIC CABLE NO. 62.5/125,			
VINUM MAST ARM ASSEMBLY AND POLE	R QI	0	C	COMMON TRENCH			СТ	(NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)		-\$	-0-
EL COMBINATION MAST ARM EMBLY AND POLE WITH LUMINAIRE	^R O-;α	0-×	• x	COILABLE NONMETALLIC CONDUIT (EMPTY)		S	CNC	GROUND ROD AT (C) CONTROLLER,			_
EL COMBINATION MAST ARM	R	Q	•	SYSTEM ITEM		5	S	(H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		° _I II⊢∘	¢∥ ⊢ ∙
EMBLY AND POLE WITH PTZ CAMERA	শহা	Teep	ेखि	INTERSECTION ITEM	-	I	IP	CONTROLLER CABINET AND	RCF		
IAL POST	RO	0	•	REMOVE ITEM RELOCATE ITEM	R			FOUNDATION TO BE REMOVED	\bowtie		
PORARY WOOD POLE (CLASS 5 OR FER) 45 FOOT (13.7m) MINIMUM	R⊗	\otimes	۲	ABANDON ITEM	Δ			STEEL MAST ARM POLE AND	RMF		
WIRE	> r	>	\succ	12" (300mm) TRAFFIC SIGNAL SECTION		R	R	FOUNDATION TO BE REMOVED	0		
AL HEAD	R	->	+					ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
AL HEAD CONSTRUCTION STAGES	\rightarrow	L	2	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R					
BERS INDICATE THE CONSTRUCTION STAGE)			~			ŏ	_	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF		
AL HEAD WITH BACKPLATE	+t> ^R	+>	+			R	R	FOUNDATION TO BE REMOVED			
AL HEAD OPTICALLY PROGRAMMED	R —(>**P**	-[>"P"	- "P"	SIGNAL FACE		õ	C	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
HER INSTALLATION	R	0-5>"F"	● → " [∓] "			¥¥(€)	∢ Υ ∢ G				
ENOTES SOLAR POWER)	0-1>''F''	02	•••			82	40	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
ESTRIAN SIGNAL HEAD	R -[]	-0	-1			R	R	SAMPLING (SYSTEM) DETECTOR		S	S
STRIAN PUSHBUTTON DETECTOR	R	۲	0	SIGNAL FACE WITH BACKPLATE.		R	Y			''	
	R	٢	ě	"P" INDICATES PROGRAMMED HEAD		×.	€ €Y	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTO	R		
SSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	@ APS	@APS	I APS			S	 €G	EXISTING PREFORMED INTERSECTION LOOP DETECTOR			
MINATED SIGN LEFT TURN"	r S	Ø	\odot			"P"	"P"	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTO	R	1 <u>⊢</u>	
		S		12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
MINATED SIGN RIGHT TURN"	R	$^{\odot}$	®	12" (300mm) PEDESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR			PS
CTOR LOOP, TYPE I		[]		INTERNATIONAL SYMBOL, OUTLINED							
ORMED DETECTOR LOOP		'! ₀₀ ↓ ₽ ↓	□ I P I	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			₽ <u>*</u>	RAILROAD	SAWD	210	
UNITED DETECTOR LUUP	P	jd	↓ [™] ↓					naiLitvaD		VLV	
DWAVE VEHICLE SENSOR	r Ma		Ŵ	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C C C	₽C KD			EXISTING	PROPOSED
DETECTION CAMERA	R [V]1	<u>لا</u> ن	\square		1. R			RAILROAD CONTROL CABINET			₽ €
	"ليني"	-		RADIO INTERCONNECT	- 	- ++• 0					
O DETECTION ZONE				RADIO REPEATER	RERR	ERR	RR	RAILROAD CANTILEVER MAST ARM		X OX - X X	X CI - X X
TILT, ZOOM CAMERA	R PEI	FZI		DENOTES NUMBER OF CONDUCTORS, ELECTRIC		\sim	~	FLASHING SIGNAL		Xox	XoX
LESS DETECTOR SENSOR	RW	\otimes	Ŵ	CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		— <u>(5)</u> —	-5-	CROSSING GATE		X0X >>	x⊖x⊨
	R	Ŵ	•	GROUND CABLE IN CONDUIT		<i>A</i>	0	CROSSBUCK		X	\mathbf{F}
LESS ACCESS POINT				NO. 6 SOLID COPPER (GREEN)		①					
ME = USER NAME = kanthaphixay wk\PWIDOT\KANTHAPHIXAYBC\d01126 4\traffic_legand_v7.dgn		ESIGNED – DAG/BCK RAWN – BCK	REVISED - REVISED -	STATE	OF ILLINOIS	5		DISTRICT 1	F.A. RTE.	SECTION	COUNTY TOTAL SHEETS NO.
PLOT SCALE = 20.0000 '/ I PLOT DATE = 10/8/2009	N. C	HECKED - DAD Ate - 10/28/09	REVISED -	DEPARTMENT			SCALE: NO	STANDARD TRAFFIC SIGNAL DESIGN DETAILS DNE SHEET NO. 6 OF 6 SHEETS STA. TO STA.		ROAD DIST. NO. ILLINOIS FED	CONTRACT NO.
			NE 13EU -	I			J JUALCE NU	one onether of anterna attri to alle	FED. R	JAL ULSI - NG. JILLINUIS FED	ALC FRUIELI
ER NAME = user DESIGNE		REVISE						DISTRICT 1		F.A.U RTE.	SECTION
DRAWN	- YJ	REVISED) –	STATE OF	210101111		1			1321	32VB

- H			1					
	USER NAME = user	USER NAME = user	DESIGNED - VP	REVISED -		1	DISTRICT 1	
			DRAWN - YJ	REVISED -	STATE OF ILLINOIS	1		
	SINGH & ASSOCIATES, INC. TEL: (312) 629-0240	PLOT SCALE = \$SCALE\$	CHECKED - LGP/GR	REVISED -	DEPARTMENT OF TRANSPORTATION	S.	TANDARD TRAFFIC SIGNAL	
	CONSULTING ENGINEERS FAX: (312) 629-8449	PLOT DATE = 11/2/2012	DATE - 11-02-2012	REVISED -		SCALE: NTS	SHEET NO. 1 OF 23 SHEETS	



PORTATION	IL	ROUTE	: 19	(RVI
	SCALE: 1"-20"	SHEET	NO	2	0F



PLOT DATE = 11/2/2012

NOTES FOR TEMPORARY TRAFFIC S

- ALL CONTROL EQUIPMENT AND COMMUNICATION DEVICE BY THE CONTRACTOR. EMERGENCY VEHICLE PRE-EMPT PROPERTY OF THE VILLAGE OF BENSENVILLE AND WIL
- 2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRI MANUFACTURERS WILL BE APPROVED FOR USE AT TEM CONTROLLER USED FOR TEMPORARY TRAFFIC SIGNALS MICROPROCESSOR BASED WITH RS232 DATA ENTRY PO SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLEE CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTR
- 3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGN (300MM) DIAMETER, HEADS SHALL BE PLACED AS INDIC PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIA SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIN INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT , SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE H AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONS SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEA HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROL
- ALL EXISTING STREET NAME AND INTERSECTION REGU POLES, RELOCATED AND SECURELY FASTENED TO THE ENGINEER.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED INTERCONNECTED TO THAT SYSTEM USING SIMILAR BI
- 6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SI AND CONTROLLER PHASING MATCH THE EXISTING TRAF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE
- UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHA TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTA SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORAI ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHE
- 8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MA AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMEN SHALL PLACE THE EQUIPMENT IN OPERATION TO THE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
- DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL E INDICATED OTHERWISE ON THE PLANS. THE DETECTION CONTRACTOR SHALL PLACE THE DETECTORS INTO OPE
- 10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CA

CONSTRUCTION NOTES:

- 1. ALL PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AN
- 2. ALL PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGE
- 3. FULL OR PARTIAL USE OF PEDESTRIAN SIGNAL HEADS
- TEMPORARY RADIO INTERCONNECT SHALL NOT BE REM IS INSTALLED AND OPERATIONAL.
- EXISTING LIGHT DETECTORS, CONFIRMATION BEACONS, THE VILLAGE OF BENSENVILLE FOR RELOCATION ONTO BY IDOT.

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMEN' PROPERTY OF THE AGENCY LISTED BELOW. THE CON' EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY

AGENCY: VILLAGE OF BENSENVILLE

2 EACH LIGHT DETECTOR 1 EACH LIGHT DETECTOR AMPLIFIER

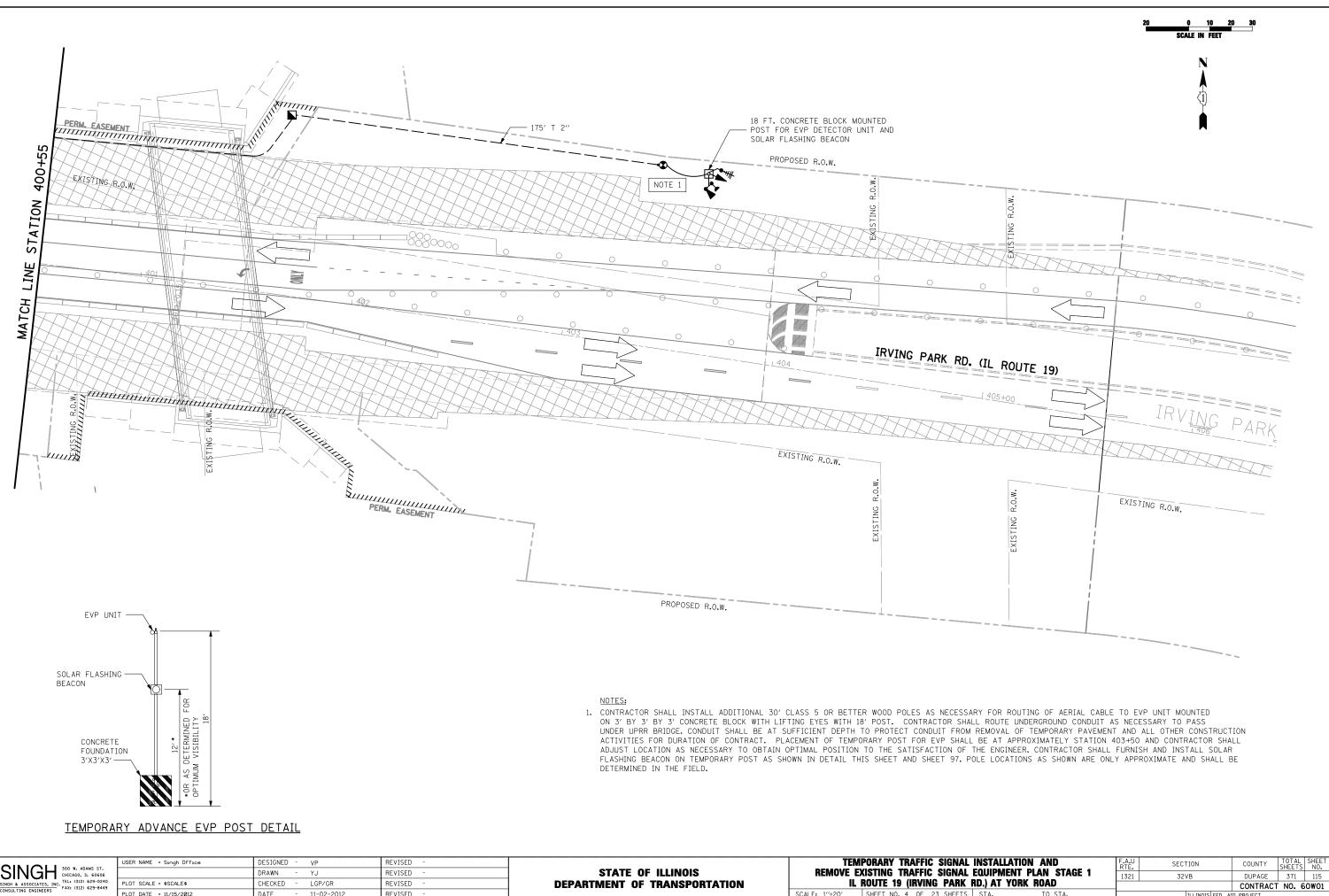
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CO BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WA THE SALVAGE VALUE OF THE REMOVED EOUIPMENT SH THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE) 6 EACH SIGNAL HEAD, 1-FACE, 3-SECTION 10 EACH SIGNAL HEAD, 1-FACE, 5-SECTION 1 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTIO 5 EACH STEEL MAST ARM AND POLE 3 EACH SIGNAL POST

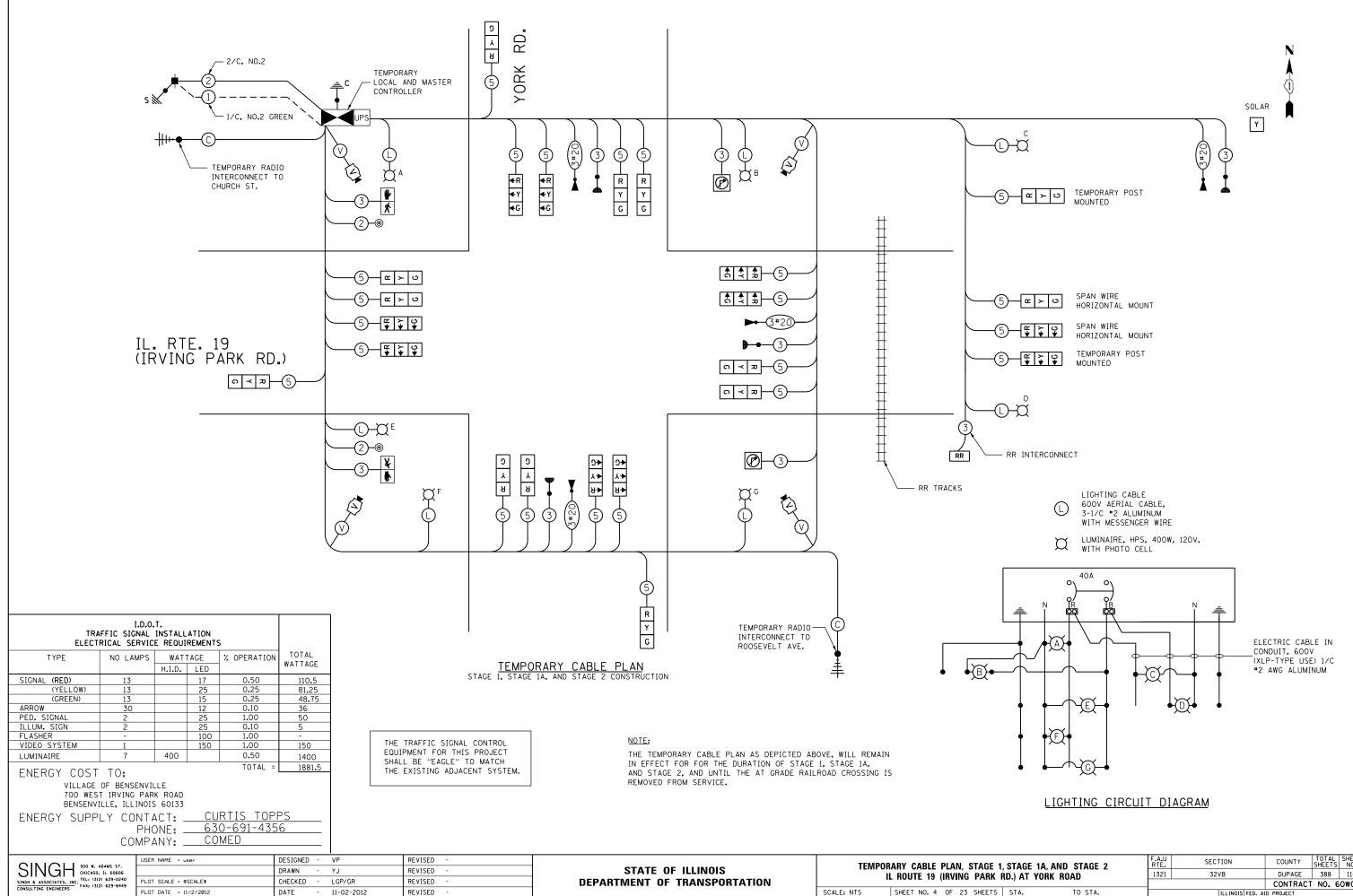
- 2 EACH SIGNAL POST 2 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE 2 EACH BLANK OUT SIGN, NLT 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE 4 EACH PEDESTRIAN PUSH-BUTTON 1 EACH ELECTRICAL SERVICE

TEMPORARY TRAFFIC SIGNAI STATE OF ILLINOIS **REMOVE EXISTING TRAFFIC SIGNAL** CHECKED LGP/GR REVISED **DEPARTMENT OF TRANSPORTATION** IL ROUTE 19 (IRVING PARK SCALE: 1"=20" SHEET NO. 3 OF 23 SHEETS STA. DATE 11-02-2012 REVISED TO STA.

S STA. TO STA.		ILLINOIS FED. AIG	
L EQUIPMENT PLAN STAGE 1 (RD.) AT YORK ROAD	1321	32VB	DUPAGE 388 114 CONTRACT NO. 60W01
L INSTALLATION AND	F.A.U RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
Μ	AICH	THE EXISTING ADJACENT	JIJILIVI.
	HE TRA OR THI	AFFIC SIGNAL CONTROLL S PROJECT SHALL BE '' THE EXISTING ADJACENT	ER EQUIPMENT EAGLE'' TO
HALL BE REFLECTED IN	OTE:		
CONTRACTOR AND SHALL			
NTRACTOR SHALL SAFELY STORE AND Y AS PER THE TRAFFIC SIGNAL SPEC	IFICAT	UE FUR FICK UP UF ALL IONS.	L
NT SHALL BE REMOVED BY THE CONTR	RACTOR	AND SHALL REMAIN TH	E
U NEW WAST ANWS AND NEW CONTROL	LLEN U	ADJINET IN A SEFAMALE	CONTINACT
5, AND LIGHT DETECTOR AMPLIFIERS O NEW MAST ARMS AND NEW CONTROI			
S AT THIS LOCATION SHALL BE DETE MOVED UNTIL FIBER INTERCONNECT T			
ED UNTIL THE PAVEMENT IS RESTORE S AT THIS LOCATION SHALL BE DETE			
ND DISCONNECTED WHEN EXISTING PA	VEMEN	T IS REMOVED.	
IG AND MAINTAINING THE CAMERAS TO CAMERAS) THE	SATISFACTION OF THE	
ERATION TO THE SATISFACTION OF T	E CALL	ED FOR IN THE PLANS,	THE
BE INCLUDED FOR ALL APPROACHES ION SYSTEM MUST MEET THE SPECIFI	CATION	N OF DISTRICT 1 AND T	HE
SATISFACTION OF THE ENGINEER AN	ID THE	AGENCY RESPONSIBLE	
AINTAINED IN OPERATION AS INDICAT ENT SHALL BE AS SHOWN ON THE PLA	ED ON	THE PLANS OR D THE CONTRACTOR	
ALL BE INSTALLED AND MADE OPERAL FALLED AT THE EXISTING TRAFFIC SI ARY TRAFFIC SIGNALS AT INTERSECT. HEN INDICATED ON THE PLANS.	GNAL,	TEMPORARY TRAFFIC	
ALL BE INSTALLED AND MADE OPERAT		AT TEMPORARY	
SIGNAL HEAD DISPLAYS, SIGNAL HEAD AFFIC SIGNAL, AT THE TIME OF THE STAGED ON THE DAY OF THE TURN V	PLACE TURN (MENTS DN, IF	
D LOOP TRAFFIC SIGNAL SYSTEM SHA BRAND CONTROL EQUIPMENT.	ALL BE		
ULATORY SIGNS SHALL BE REMOVED H E SPAN WIRE OR WOOD POLE AS DIRE			
EAD RELOCATIONS. EACH TEMPORARY OLLER CABINET TO THE SIGNAL HEAD	•		
A RAILROAD INTERSECTION. THE C HEADS TO ANY POSITION ON THE SP NSTRUCTION STAGING. THE TEMPORAR	'AN WIF Y TRAF	RE OR FFIC SIGNAL	
IAN SIGNALS SHALL INCLUDE SOLID I TIMERS SHALL BE USED WHEN THE EX RECTED BY THE ENGINEER. COUNTDO	NTERN ISTING WN TY	ATIONAL PE	
CNAL SECTIONS SHALL BE LED AND 12	STONA	L	
S SHALL BE FULLY ACTUATED NEMA ORTS COMPATIBLE WITH EXISTING MO ED IN A NEMA TS2 CABINET. ONLY OM RACT.			
RICT APPROVED CLOSED LOOP EQUIPM MPORARY SIGNAL LOCATIONS. ALL	IENT		
CES FOR THE TEMPORARY TRAFFIC SI PTION EQUIPMENT FURNISHED FOR THI LL BE PAID FOR BY THE VILLAGE.	GNAL(S IS PRO) SHALL BE FURNISHED JECT WILL BE THE	N
SIGNAL		SC.	ALE IN FEET
		20	



	USER NAME = Singh Office	DESIGNED - VP	REVISED -		TEMPORARY TRAFFIC SIGNAL
SINGH 300 W. ADAMS ST. CHICAGO, IL 60606		DRAWN - YJ	REVISED -	STATE OF ILLINOIS	REMOVE EXISTING TRAFFIC SIGNAL
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240	PLOT SCALE = \$SCALE\$	CHECKED - LGP/GR	REVISED -	DEPARTMENT OF TRANSPORTATION	IL ROUTE 19 (IRVING PARK
CONSULTING ENGINEERS	PLOT DATE = 11/15/2012	DATE - 11-02-2012	REVISED -		SCALE: 1"=20' SHEET NO. 4 OF 23 SHEETS



1	STAGE	1A, AND STAGE 2	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		ORK ROAD	1321	32VB	DUPAGE	388	116
			_		CONTRACT	NO. 6	OW01
5	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

TEMPORARY NORMAL SEQUENCE (+		+	▲	+			(▲	▲ 4 (▲ 4 ▲
MOVEMENT	5 ¹ J	◀		5		— 6	3	↓			▼ ▼ 8
PHASE	1+5		1+6	2+5	2+6		3+	-7	3+8	4+7	4+8 H SA
INTERVAL	1 2A 2B 3A 3B 3C 3D 4A	4B 4C 4D 5	6A 6B 6C 6D	7 8A 8B	9 10A 10B 10C 10D 11A 1	1B 12A 12B 12C 12C		5A 15B 16A 16B	17 18A 18B 19A 19B	20 21 22A 22B 23A 23B	24 25 26A 26B
CHANGE TO	1+6 2+5	2+6	2+6	2+6	3+7 3+8 4+7 1+5 1+6	2+5	1+5	3+8 4+7	1+5 1+6 2+5 4+8	$\begin{array}{c c} & 1+5 \\ 1+6 \\ 2+5 \\ 4+8 \end{array}$	1+5
STREET		210	210	210	4+7 1+5 1+6 4+8		2+5 2+6 4+8	3.0 111	2+5 4+8 2+6	2+5 2+6	2+5 2+6
IL RTE 19 (IRVING PARK RD) EASTBOUND E/B NEAR RIGHT AND FAR RIGHT SIGNALS			RRRR	G G G	G Y R R R Y	R G G G G	RRR	RRRR	RRRRR	RRRRR	RRRRR
	← G ← Y ← R ← G ← G ← G ← G ← Y	Y ← R ← R ← R ← R ←		← G ← Y ← R	←R ←R ←R ←R ←R ←R ←	-R - R - R - R - R - R - R	? ← R ← R ← R ← R		• R • R • R • R • R		←R ←R ←R ←R ←R
IL RTE 19 (IRVING PARK RD) WESTBOUND W/B FAR RIGHT SIGNALS		R R R G	G G G G	RRR	G G G Y R G	G G G Y R	RRR	RRRR	R R R R R	R R R R R R	R R R R R
IL RTE 19 (IRVING PARK RD) WESTBOUND W/B MID SPAN LEFT & FAR LEFT SIGNALS		$G \leftarrow G \leftarrow Y \leftarrow R \leftarrow G$	+G+G+Y+R	R ← R ← R ← R	←R ←R ←R ←R ←R ←R ←	$-R \leftarrow R \leftarrow R \leftarrow F$	२ ← R ← R ← R ← R	$\mathbf{r} \mathbf{R} \mathbf{I} \mathbf{I} \mathbf{R} \mathbf{I} \mathbf{I} \mathbf{I} \mathbf{I} \mathbf{I} \mathbf{I} \mathbf{I} I$	-R < R < R < R < R < R	• R • R • R • R • R • R	← R
IL RTE 19 WB SIGNALS EAST OF RR TRACKS W/B PRE-SIGNALS MID SPAN RIGHT & NEAR RIGHT		R R R G	G G G G	RRR	G Y R R R G	GYRRR	RRR	RRRR	R R R R R	R R R R R R	RRRRR
IL RTE 19 WB SIGNALS EAST OF RR TRACKS W/B PRE-SIGNALS MID SPAN LEFT & NEAR LEFT		$Y \leftarrow R \leftarrow R \leftarrow R \leftarrow G$		R + R + R + R	←R ←R ←R ←R ←R ←R ←	-R + R + R + R + F	? ← R ← R ← R ← R	$\mathbf{r} \mathbf{R} \mathbf{I} \mathbf{I} \mathbf{R} \mathbf{I} \mathbf{I} \mathbf{I} \mathbf{I} \mathbf{I} \mathbf{I} \mathbf{I} I$	+R <= R <= R <= R <= R	. ← R ← R ← R ← R ← R ← R	← R
YORK RD NORTHBOUND MID SPAN RIGHT, N/B FAR RIGHT AND NEAR RIGHT SIGNALS			RRRR	RRR		RRRRR		RRRR	G Y R G G	R R R R R R	G G Y R R
	• R				←R ←R ←R ←R ←R ←R ←	-R + R + R + R + F			← G ← Y ← R ← Y ← F	R + R	← R
YORK RD SOUTHBOUND MID SPAN RIGHT, S/B FAR RIGHT AND NEAR RIGHT SIGNALS YORK RD SOUTHBOUND S/B			RRRR	RRR		RRRRR	RRR	RRRR	R R R R R	G G Y R G G	G G Y R R
MID SPAN LEFT AND FAR LEFT	$\bullet R \bullet R$	$R \leftarrow R \leftarrow R \leftarrow R \leftarrow R \leftarrow R$	-R <= R <= R <= R	+R+R+R	←R ←R ←R ←R ←R ←R ←	-R + R + R + F	? ← G ← Y ← R •	+Y + R + G + G	• R < R < R < R < R < R		
PEDESTRIAN SIGNALS CROSSING IL RIE 19	u u u u u u u u u			ІНІНІН		н н н н н	ТНТНТНТ	н н н н		*Р [*] Ё́Н Н Н Н Н	т́Р т́ғ́н Н Н 🌾
PEDESTRIAN SIGNALS CROSSING IL RTE 19 ON WEST SIDE OF YORK RD								TO APPEAR	ONLY UPON PUSH B	ES 2 AND 6 SHALL	
TEMPORARY RAILROAD PREEMPTI		RATIONS		PREEMPTOR PREEM NUMBER 3 NUMBI	MPTOR PREEMPTOR PREEMPTOR PREEMP R 4 NUMBER 5 NUMBER 6 NUMBER	TOR 2		FLASHING THE PEDES	ONLY UPON PUSH B '(太)'' IS TO TERMIN IRIAN INTERVAL CLE	UTTON ACTIVATION ATE AT THE COMPLETION RANCE	DE ON RECALL
TEMPORARY RAILROAD PREEMPTI	1 5 7 9	RATIONS	20 24			TOR 2	• • • •	FLASHING THE PEDES THIS " 🖍	ONLY UPON PUSH B () () 'IS TO TERMIN TRIAN INTERVAL CLE ' OR FLASHING '' ()	ES 2 AND 6 SHALL	OF
TEMPORARY RAILROAD PREEMPTI CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1 5 7 9	13 17		2 3	3 4 5			FLASHING THE PEDES THIS " 🖍 BIDIRECTIC IS NOT SU	ONLY UPON PUSH B (A) 'IS TO TERMIN TRIAN INTERVAL CLE ' OR FLASHING '' NAL STRAIGHT THRO FFICIENT TO COMPLE	ES 2 AND 6 SHALL UTTON ACTIVATION ATE AT THE COMPLETION RANCE '' INTERVAL MAY FINISH T UGH MOVEMENT IF THE LEF TE ''	OF TIMING IN THE FT ARROW TIME
TEMPORARY RAILROAD PREEMPTI CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER RAILROAD PREEMPTION SEQUENCE INTERVAL NUMBER CHANGE TO RAIL ROAD PREEMPTION	1 5 7 9 1A 1B 1C 1D 1E 1F 1G 1H	13 17 1 1J 1K 1L 1M	1N 1P 10 1R	2 3 15 1T 1U	3 4 5 1V 1W 1X 1Y 1Z 2	3 4 5	ι	FLASHING THE PEDES THIS " 🛣 BIDIRECTIC IS NOT SU " 🛣 " AND	ONLY UPON PUSH B (A) 'IS TO TERMIN TRIAN INTERVAL CLE ' OR FLASHING '' NAL STRAIGHT THRO FFICIENT TO COMPLE FLASHING '')' TI	ES 2 AND 6 SHALL UTTON ACTIVATION ATE AT THE COMPLETION RANCE "INTERVAL MAY FINISH T UGH MOVEMENT IF THE LEF	OF TIMING IN THE FT ARROW TIME W TINTERVALS. N PHASES WHERE
TEMPORARY RAILROAD PREEMPTI CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER RAILROAD PREEMPTION SEQUENCE INTERVAL NUMBER	1 5 7 9 1A 1B 1C 1D 1E 1F 1G 1H 1B 2 1D 2 1F 2 1H 2	13 17 1J 1K 1L 1M 1K 2 1M 2	1N 1P 10 1R 1P 2 1R 2	2 3 1S 1T 1U 1T 2 1V	3 4 5 1v 1w 1x 1y 1Z 2 2 1x 2 1Z 2 3	3 4 5 4 5 6	ι	FLASHING THE PEDES THIS " 🛣 BIDIRECTIC IS NOT SU " 🛣 " AND	ONLY UPON PUSH B (M) IS TO TERMIN IRIAN INTERVAL CLE OR FLASHING " NAL STRAIGHT THRO FFICIENT TO COMPLE FLASHING " TI FLASHING " TAR	ES 2 AND 6 SHALL UTTON ACTIVATION ATE AT THE COMPLETION RANCE '' INTERVAL MAY FINISH T UGH MOVEMENT IF THE LEF TE '' T '' OR FLASHING '' MINGS TO BE SET ONLY O	OF TIMING IN THE FT ARROW TIME IFT ARROW TIME IFT ARROW TIME N PHASES WHERE
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N PHASES WHERE</td></td></td<>	1 5 7 9 1A 1B 1C 1D 1E 1F 1G 1H 1B 2 1D 2 1F 2 1H 2 R R R Y R Y R +Y +R +R +R +Y +R +R R R G G R R R +R R R G G R R R +R R R Y R R R R R +G +G +G +G +R +R +R +R R R Y R R R R R R +Y +R +R R R R R R R R R R R R R R R R R R R R R R R R R R R </td <td>13 17 1J 1K $1L$ $1M$ 1K 2 $1M$ 2 R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R Y R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R</td> <td>1N 1P 10 1R 1P 2 1R 2 R R R R +R +R +R +R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R Y R Y R Y R</td> <td>2 1 1s 1T 1U 1T 2 1V R R R 2 -R -R G G R 2 -G -G Y R R Q -Y -R R R Y R R Y R R Y R R Y R R R R R R</td> <td>3 4 5 1v 1w 1x 1y 1z 2 2 1x 2 1z 2 3 R Y R R R R +R +Y +R +R +R +R R R R R R R R R R R R G +R +R +R +R +C R R R R R R +R +R +R +R +C +C R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R<</td> <td>3 4 5 4 5 6 R R R \leftarrowR \leftarrowR \leftarrowR Y R R Q \leftarrowY \leftarrowR R R R R R R R R R R R R R R R R R R R R G R R R R R G R R R R R G R R R R R G</td> <td></td> <td>FLASHING THE PEDES THIS "K BIDIRECTIO IS NOT SU "K " AND OPERATION P -ILLUMINA FH -ILLUMINA</td> <td>ONLY UPON PUSH B (A) IS TO TERMIN TRIAN INTERVAL CLE OR FLASHING " NAL STRAIGHT THRO FICIENT TO COMPLE FLASHING " FLASHING " TED PERSON - WALK TED FLASHING HAND</td> <td>ES 2 AND 6 SHALL UTTON ACTIVATION ATE AT THE COMPLETION RANCE "INTERVAL MAY FINISH T UGH MOVEMENT IF THE LEF TE " () OR FLASHING " MINGS TO BE SET ONLY O DE INDICATED IN THE SEOL</td> <td>OF TIMING IN THE FT ARROW TIME INTERVALS. 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NOTE:

THE TEMPORARY SEQUENCE OF OPERATIONS, TEMPORARY RAILROAD PREEMPTION SEQUENCE OF OPERATIONS DEPICTED ABOVE, WILL REMAIN IN EFFECT FOR THE DURATION OF STAGE 1, STAGE 1A, AND STAGE 2, AND UNTIL THE HIGHWAY RAILROAD CROSSING IS REMOVED FROM SERVICE.

	USER NAME = user	DESIGNED - VP	REVISED -			SEQUENCE OF OPERATIONS AND RAILROAD PREEMPTION	F.A.U RTE.	SECTION	COUNTY TO	OTAL SHEET HEETS NO.
		DRAWN - YJ	REVISED -	STATE OF ILLINOIS	SEQUENC		1321	32VB	DUPAGE 3	388 117
SINGH & ASSOCIATES, INC. TEL: (312) 629-02- CONSULTING ENGINEERS FAX: (312) 629-84-	PLOT SCALE = \$SCALE\$	CHECKED - LGP/GR	REVISED -	DEPARTMENT OF TRANSPORTATION		ROUTE 19 (IRVING PARK RD.) AT YORK ROAD			CONTRACT N	NO. 60W01
CONSETTING ENGINEERS	PLOT DATE = 11/2/2012	DATE - 11-02-2012	REVISED -		SCALE: NTS	SHEET NO. 5 OF 23 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT	

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATIONS

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		1				1		5		5			7	7	9			9			ç)		13		13	1	3	17	1	7	20		20	ć	24		24	1		24	
EMERGENCY VEHICLE PREEMPTION SEQUENCE INTERVAL NUMBER	1A 1E	3 1C	1D	1E 1	1F 1	G 1H	1 1J	1K	1L	1M 1	N 1	.P 10	Q 1R	1S	1⊤	1U	1V 1	LW 1	1X 1	Y 12	Z 1A4	A 1BB	1CC	1DD 11	EE 1F	F 1G	G 1НН	1JJ	1KK	ILL 1	MM 1N	N 1PF	P 100	1RR	155	1 T T 1	.UU 1	VV 1W	$W 1 \times >$	X 1YY	1ZZ	1444	1BBB
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE INTERVAL NUMBER	1B 2	1D	1E	1F 3	OR 1	Н 1.	J 1K	4	2	1N 1	LP 1	0 3, 0R	4 1S	2,3 0R5	4	1 V	2	1X 1	1Y 1	Z 3 C	^{)R} 1BI	B 1CC	1DD	4 11	FF 20	DR 1H	+ 3	1KK	5 1	.мм 2	,4 - R 5 -	3 100	1RR ב	2,3 OR 4	5	100 1	. VV 2	OR 1X	X 1YY	r 3	1444	1BBB	5
IL RTE 19 (IRVING PARK RD) EASTBOUND NEAR RIGHT AND FAR RIGHT SIGNALS	RR	R	R	R	RI	R R	R	R	R	R F	7 F	7 F	7 Y	R	G	Y	R	ΥI	RI	R R	G	G	G	G	R F	R R	R	R	R	R	R F	R R	R	R	R	R	R	R F	≀ R	R	R	R	R
IL RTE 19 (IRVING PARK RD) EASTBOUND MID SPAN LEFT & FAR LEFT SIGNALS		२ ← Y	←R	<	⊢R I ◄	- G 🗲 (G←G	←G	←R	<	-R 🗲	-R ←	R ← `	Y►R	← G	►R	<	-R 🗲	-R 🗲	R ← I	R ≁ F	R ≁ R	►R	←R	-R 🗲	R◄I	२ ← F	R ≁ R	+R.	►R <	-R 🗲	R ← F	R ≁ R	←R	≁ R'	<-R <	⊢R◄	-R 🗲	R ← F	२ ← R	►R	►R	►R
IL RTE 19 (IRVING PARK RD) WESTBOUND NEAR RIGHT AND FAR RIGHT SIGNALS	RR	R	R	R	RI	R R	R	R	G	G (GN	Y R	R R	R	R	G	G	G	G '	Y R	≀ G	G	Y	R	R F	R R	R	R	R	R	R F	R R	R	R	R	R	R	R F	₹ R	R	R	R	R
IL RTE 19 (IRVING PARK RD) WESTBOUND MID SPAN LEFT & FAR LEFT SIGNALS	← G ←	G←G	←G	< Y <	-R 🗲	• G 🗲 (G ≁ Y	►R	←G	← G ←	G►	Y	R ← F	R ← R	← R	← R	< R <-	-R 🗲	-R 🗲	R ← f	२ 	R ← R	≁ R	<	-R 🗲	R ← F	२ 	-R	<-R <	⊢R ◄	-R 🗲	R 🗲 F	R ← R	►R	≁ R∙		R 🗲	-R 🗲 f	R ← F	२← R	►R	►R	←R
IL RTE 19 WB SIGNALS EAST OF RR TRACKS PRE-SIGNALS MID SPAN RIGHT & NEAR RIGHT	RR	R	R	R	RI	R R	R	R	G	ΥF	7 F	R R	R R	R	R	G	G	YI	r f	R R	Y	R	R	R	R F	R R	R	R	R	R	RF	R	R	R	R	R	R '	RR	(R	R	R	R	R
IL RTE 19 WB SIGNALS EAST OF RR TRACKS PRE-SIGNALS MID SPAN LEFT & NEAR LEFT	← G ←	G ← Y	←R	< R <-	-R 🗲	·Y 🗲 F	R ← R	←R	←G	• Y •	R 🗲	R ←	R ← F	R ← R	 	<-R	< R <-	-R 🗲	-R 🗲	R ← f	२ 	R ← R	← R	<	-R 🗲	R ← F	२ 	R	<-R <	⊢R ◄	-R 🗲	R 🗲 F	R ← R	►R	← R ·	< R <	-R 🗲	-R • '	R ← F	₹ •R	←R	←R	← R
YORK RD NORTHBOUND MID SPAN RIGHT, FAR RIGHT AND NEAR RIGHT SIGNALS	RR	R	R	R	RI	R R	R	R	R	R F	7 F	R R	R R	R	R	R	R	RI	R F	R R	R	R	R	R	R F	R R	R	R	R	Y	R G	R	R	R	R	G	Y I	R C	; G	G	G	Y	R
YORK RD NORTHBOUND MID SPAN LEFT AND FAR LEFT	← R ← I	R ≁ R	←R	← R •	-R 🗲	R 🗲 F	R ← R	←R	+R·	← R 🗲	R 🗲	·R ←	R ← F	R ← R	 	← R		-R 🗲	-R 🗲	R ← f	२ 	R ← R	← R	< R <	-Y 🗲	R 🗲 (G 🗕 G	← Y	<-R <	⊢Y <	-R 🗲	G ← F	R ← R	►R	← R ·	-R	-R 🗲	-R - '	R ← F	२− R	►R	←R	►R
YORK RD SOUTHBOUND MID SPAN RIGHT, FAR RIGHT AND NEAR RIGHT SIGNALS	RR	R	R	R	RI	R R	R	R	R	R F	7 F	R R	R R	R	R	R	R	RI	R F	R R	R	R	R	R	R F	R R	R	R	R	R	RF	G	Y	R	G	G	Y '	RC	; Y	R	G	G	G
YORK RD SOUTHBOUND MID SPAN LEFT AND FAR LEFT	← R ← I	R − R	←R	< R <-	-R 🗲	R 🗲 F	R ← R	←R	← R ·	←R ←	R 🗲	R 🗲	R ← F	R ← R	← R	← R	<-R <	-R 🗲	-R 🗲	R ← f	२ ← F	R ← R	≁ R	<	-Y 🗲	R ← `	r ← F	←G	←G	⊢R ◄	-R 🗲	R 🗕 C	β ≁Υ	►R	←G·		R 🗲	-R - '	R ← F	२− R	►R	←R	►R
PEDESTRIAN SIGNALS CROSSING IL RTE 19 ON WEST SIDE OF YORK RD	нн	Н	Н	Н	ΗН	н н	Н	Н	Н	HH	- F	Η	н	Н	Н	Н	Н	Н	нн	н н	Н	Н	Н	Н	ΗΗ	н н	Н	Н	Н	Н	Η Н	I FF	н	Н	FH	FH	Н	H FI	н н	Н	FH	Н	Н

NOTE:

THE TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATIONS DEPICTED ABOVE, IS TO REMAIN IN EFFECT FOR THE DURATION OF STAGE 1, STAGE 1A, AND STAGE 2, AND UNTIL THE HIGHWAY RAILROAD CROSSING IS REMOVED FROM SERVICE.

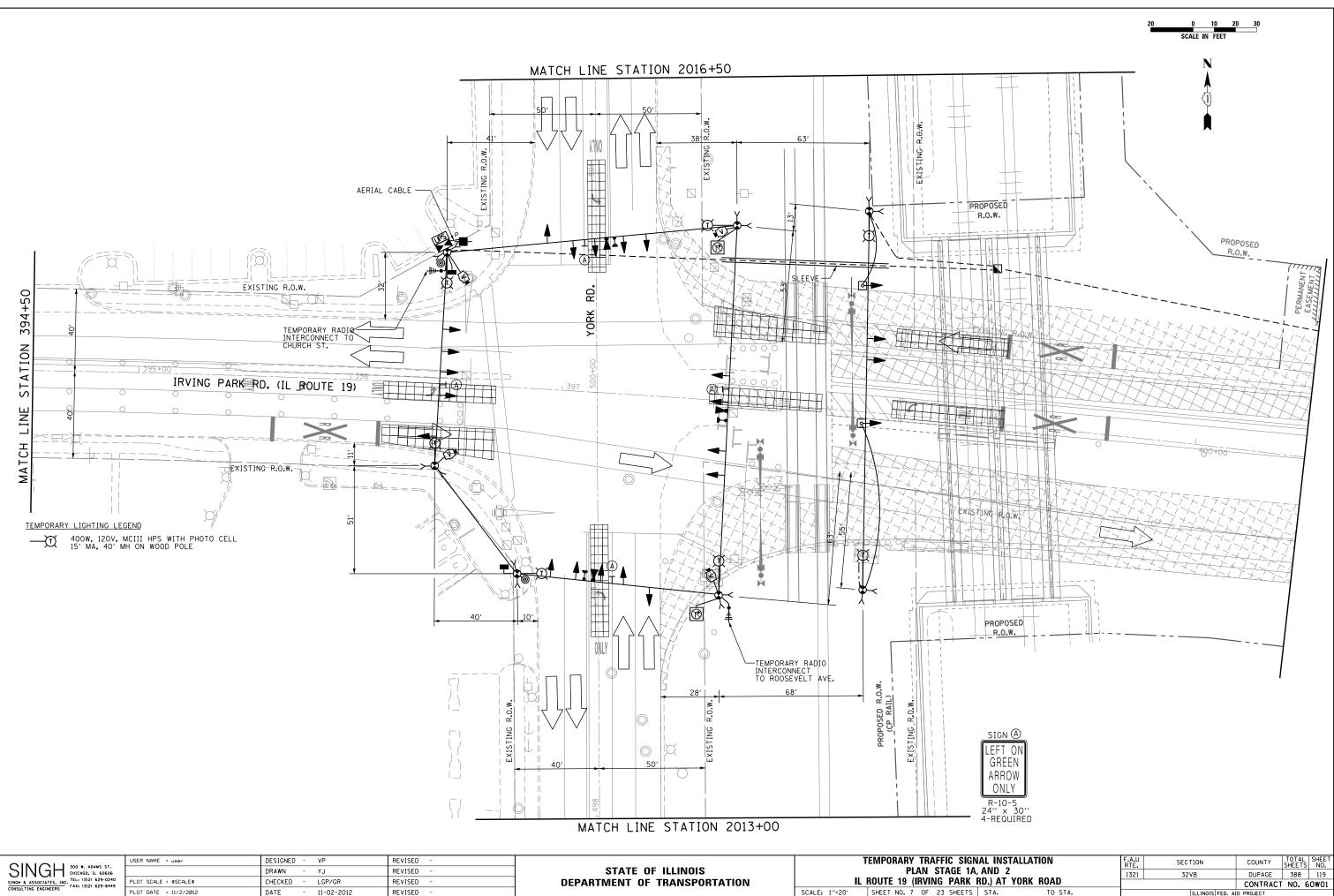


		PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	PREEMPTOR NUMBER 6	
	CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER					CLEAR TO NORMAL
	EMERGENCY VEHICLE PREEMPTION SEQUENCE INTERVAL NUMBER	2	3	4	5	
	CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE INTERVAL NUMBER					
	IL RTE 19 (IRVING PARK RD) EASTBOUND NEAR RIGHT AND FAR RIGHT SIGNALS	R	R	G	R	•
ЭVЕ	IL RTE 19 (IRVING PARK RD) EASTBOUND MID SPAN LEFT & FAR LEFT SIGNALS	←R	←R	←G	►R	•
m	IL RTE 19 (IRVING PARK RD) WESTBOUND NEAR RIGHT AND FAR RIGHT SIGNALS	G	R	R	R	•
Q	IL RTE 19 (IRVING PARK RD) WESTBOUND MID SPAN LEFT & FAR LEFT SIGNALS	←G	►R	←R	←R	•
NUE	IL RTE 19 WB SIGNALS EAST OF RR TRACKS PRE-SIGNALS MID SPAN RIGHT & NEAR RIGHT	G	R	R	R	•
	IL RTE 19 WB SIGNALS EAST OF RR TRACKS PRE-SIGNALS MID SPAN LEFT & NEAR LEFT	←G	►R	←R	←R	•
0	YORK RD NORTHBOUND MID SPAN RIGHT, FAR RIGHT AND NEAR RIGHT SIGNALS	R	G	R	R	•
	YORK RD NORTHBOUND MID SPAN LEFT AND FAR LEFT	≁R	←G	← R	← R	•
	YORK RD SOUTHBOUND MID SPAN RIGHT, Far right and near right signals	R	R	R	G	•
	YORK RD SOUTHBOUND MID SPAN LEFT AND FAR LEFT	←R	►R	►R	←G	•
	PEDESTRIAN SIGNALS CROSSING IL RTE 19 ON WEST SIDE OF YORK RD	Н	Н	Н	Н	•

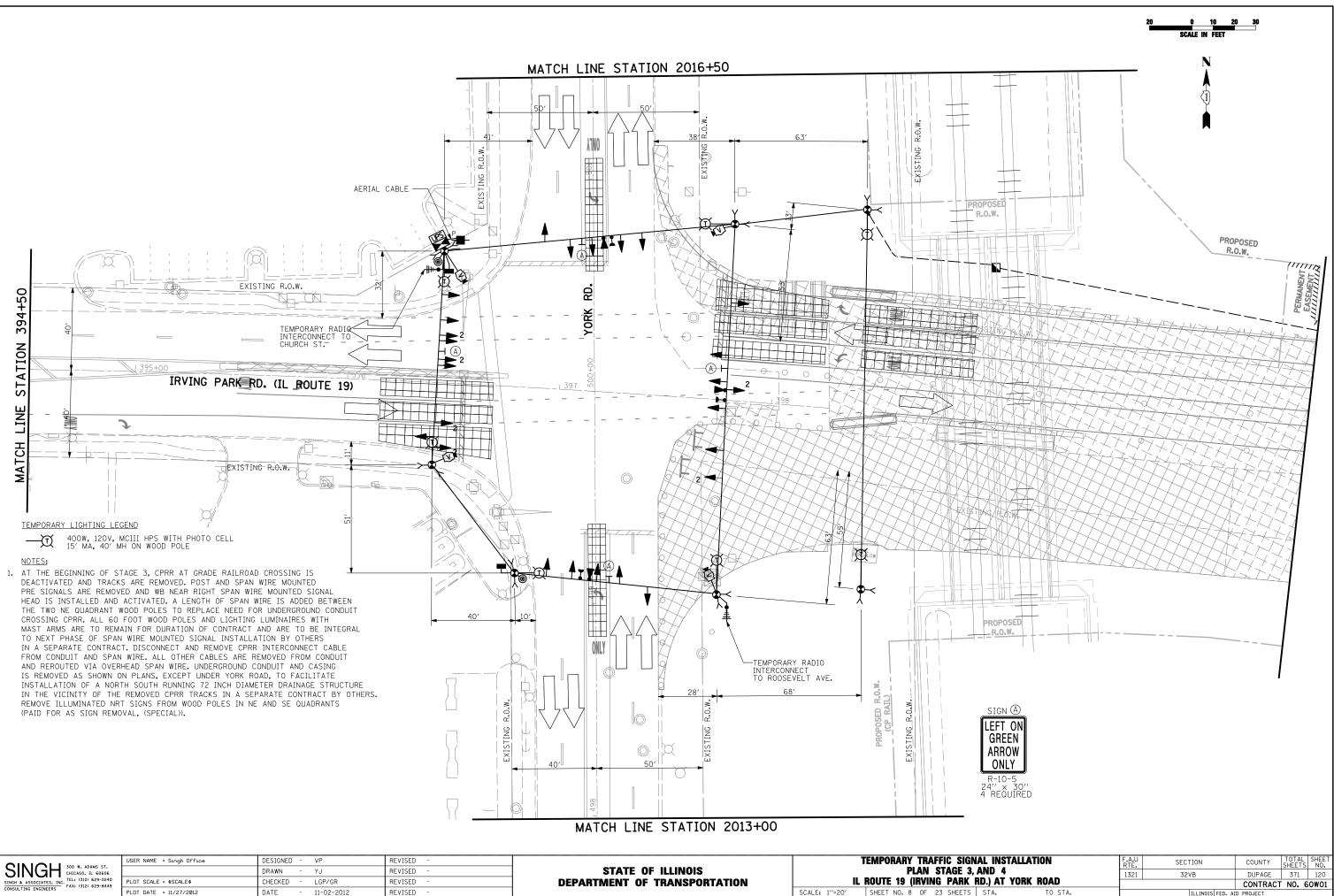
	USER NAME = user	DESIGNED - VP	REVISED -		TEMPORARY EMERGENCY VECHICLE PREEMPTION	F.A.U	SECTION	COUNTY TOTAL SHEET
SINGH 300 W. ADAMS ST. CHICAGO, IL 60606		DRAWN - YJ	REVISED -	STATE OF ILLINOIS	SEQUENCE OF OPERATIONS, STAGE 1, STAGE 1A, AND STAGE 2	1321	32VB	DUPAGE 388 118
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240 CONSULTING ENGINEERS FAX: (312) 629-8449	PLOT SCALE = \$SCALE\$	CHECKED - LGP/GR	REVISED -	DEPARTMENT OF TRANSPORTATION	IL ROUTE 19 (IRVING PARK RD.) AT YORK ROAD			CONTRACT NO. 60W01
	PLOT DATE = 11/2/2012	DATE - 11-02-2012	REVISED -		SCALE: NTS SHEET NO. 6 OF 23 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT

EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE 2 OR 3 IS TERMINATED.

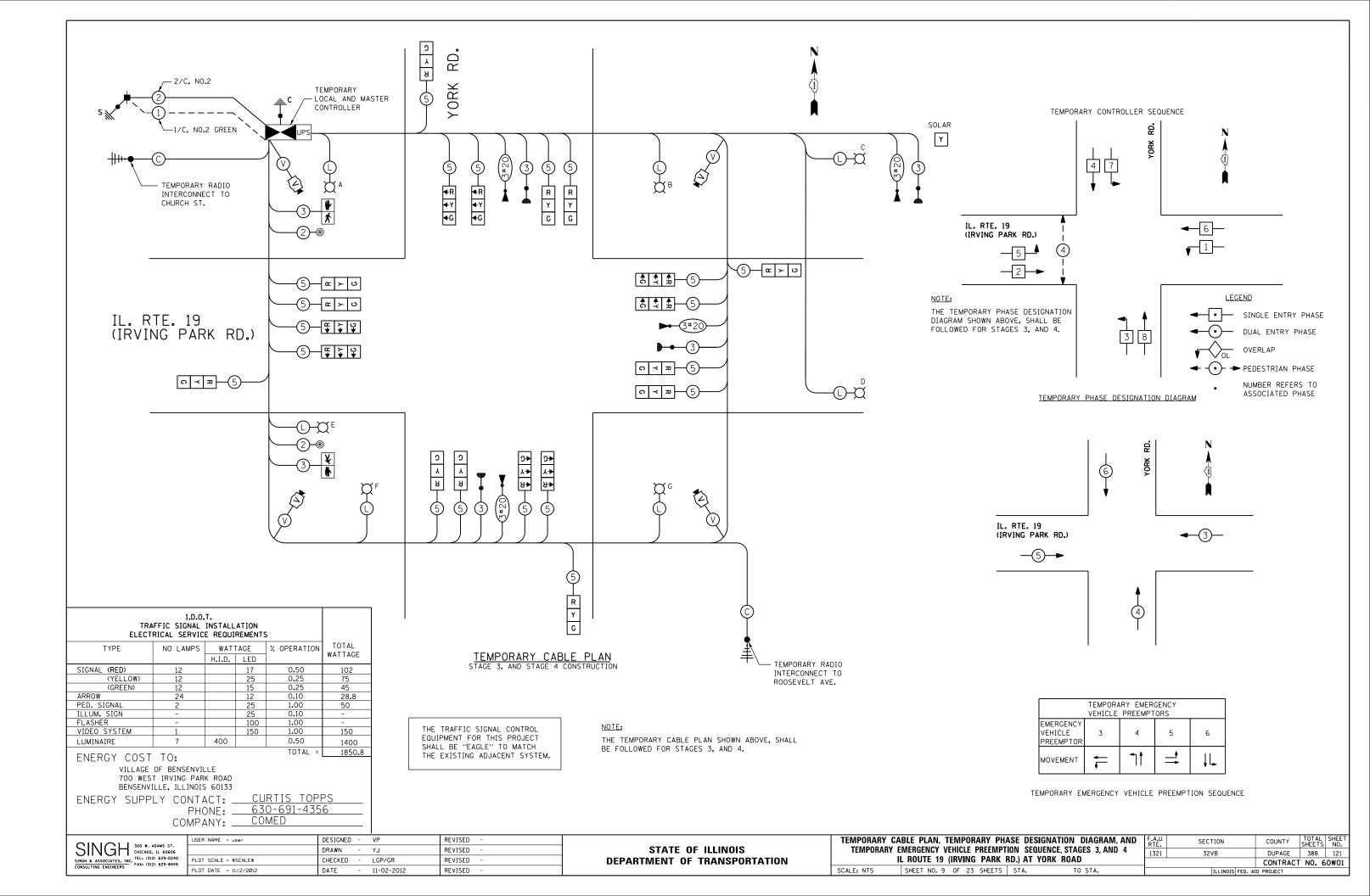
P -ILLUMINATED PERSON - WALK FH -ILLUMINATED FLASHING HAND - FLASHING DON'T WALK H -ILLUMINATED SOLID HAND - DON'T WALK

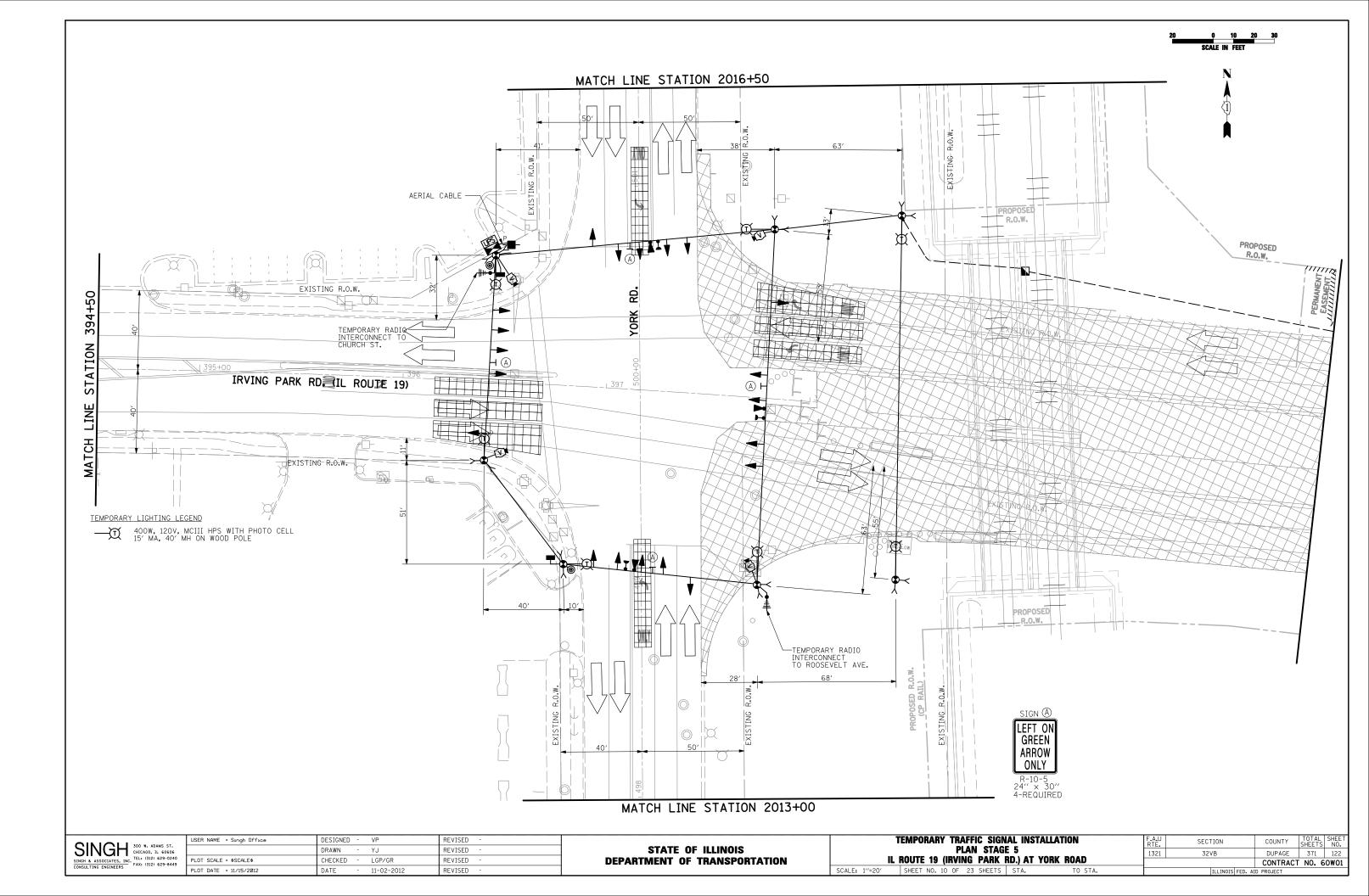


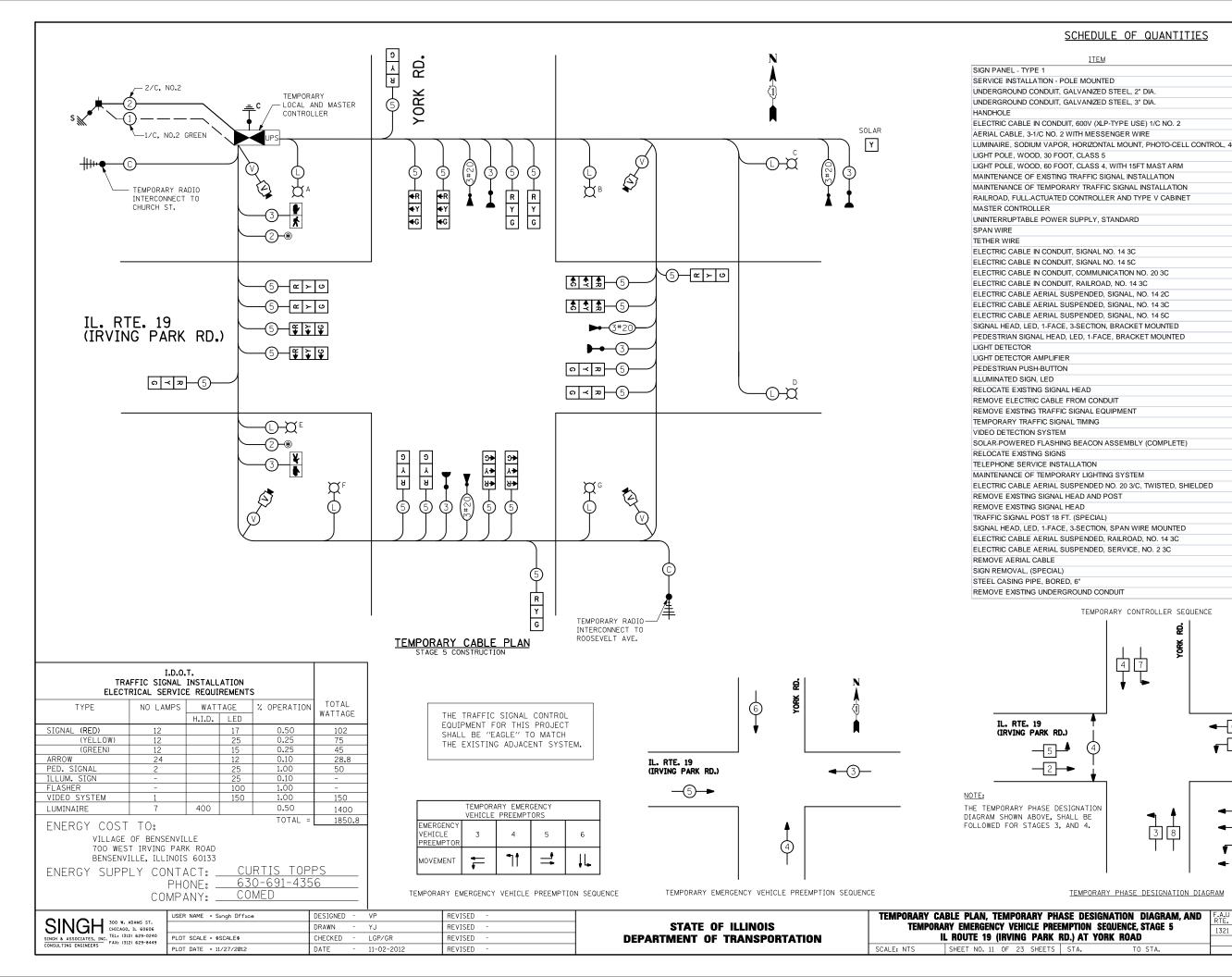
	DRAWN - YJ	REVISED -	STATE OF ILLINOIS		PLAN STAGE 1A,
IT SCALE = \$SCALE\$	CHECKED - LGP/GR	REVISED -	DEPARTMENT OF TRANSPORTATION	IL	ROUTE 19 (IRVING PARK R
DT DATE = 11/2/2012	DATE - 11-02-2012	REVISED -		SCALE: 1"=20'	SHEET NO. 7 OF 23 SHEETS



Γ		USER NAME = Singh Office	DESIGNED - VP	REVISED -		T	EMPORARY TRAFFIC SIGN
	SINGH 300 W. ADAMS ST. CHICAGO, IL 60606		DRAWN - YJ	REVISED -	STATE OF ILLINOIS		PLAN STAGE 3,
	SINGH & ASSOCIATES, INC. TEL: (312) 629-0240	PLOT SCALE = \$SCALE\$	CHECKED - LGP/GR	REVISED -	DEPARTMENT OF TRANSPORTATION	IL /	ROUTE 19 (IRVING PARK I
	CONSULTING ENGINEERS FAX: (312) 629-8449	PLOT DATE = 11/27/2012	DATE - 11-02-2012	REVISED -		SCALE: 1"=20'	SHEET NO. 8 OF 23 SHEETS



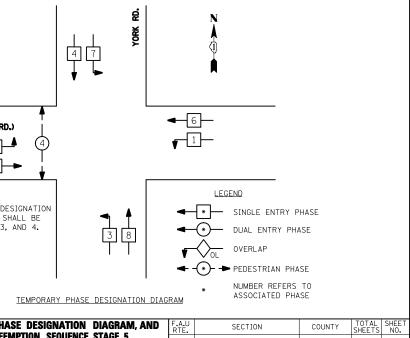




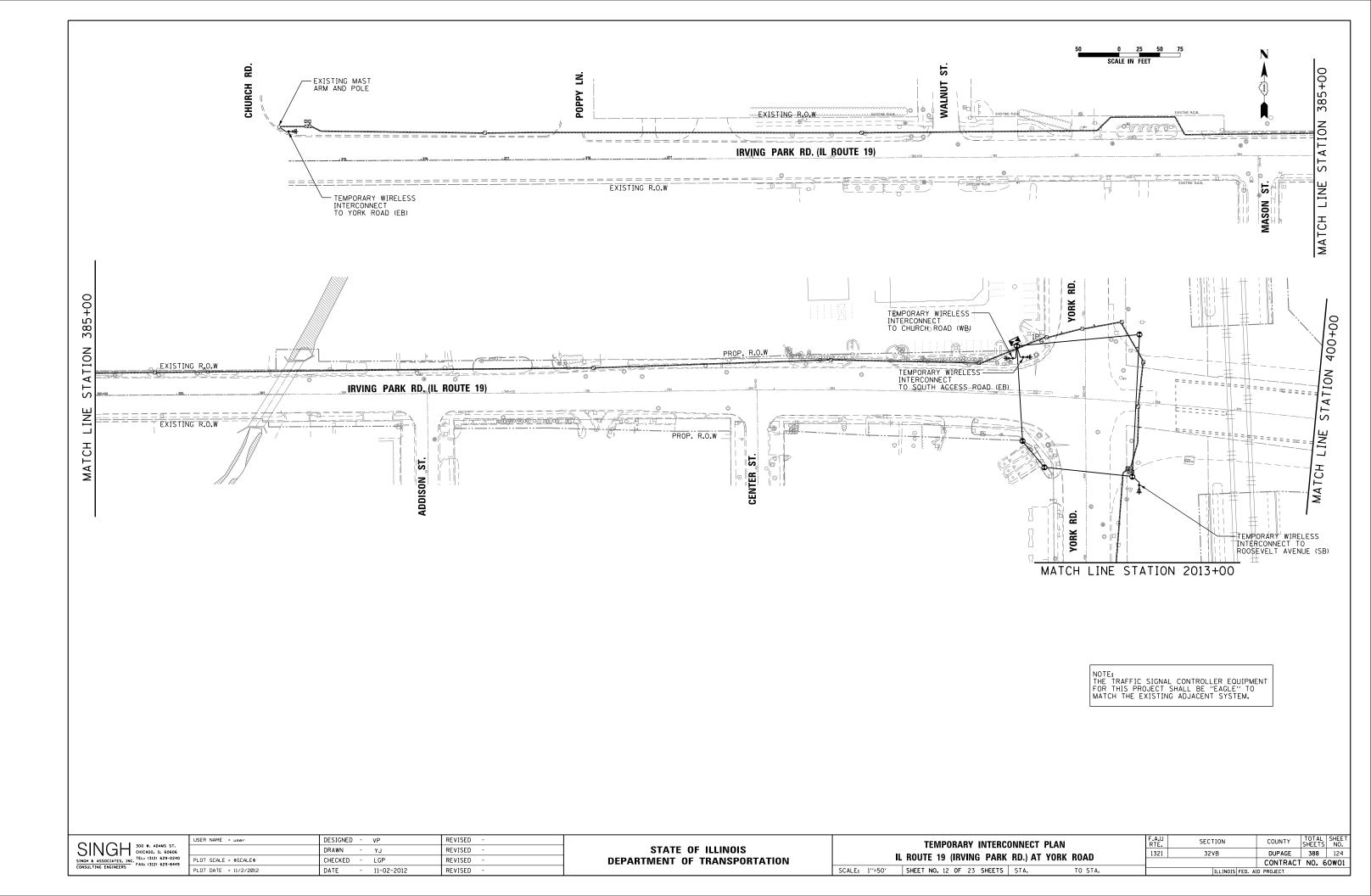
SCHEDULE OF QUANTITIES

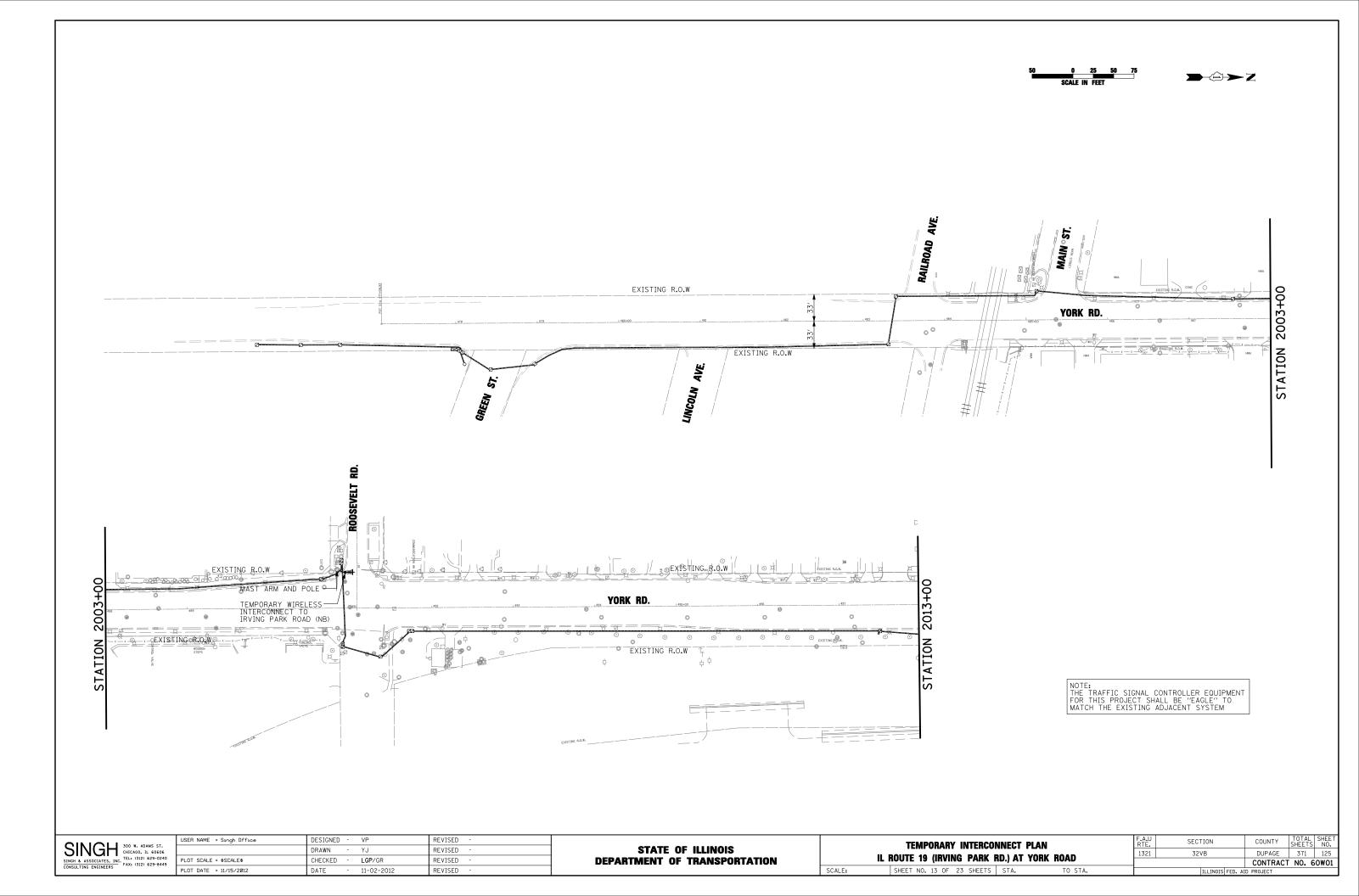
ITEM	<u>UNIT</u>	TOTAL
	SQ FT	20
I - POLE MOUNTED	EACH	1
JIT, GALVANIZED STEEL, 2" DIA.	FOOT	477
JIT, GALVANIZED STEEL, 3" DIA.	FOOT	350
	EACH	2
NDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	1,540
D. 2 WITH MESSENGER WIRE	FOOT	578
POR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH	7
FOOT, CLASS 5	EACH	1
FOOT, CLASS 4, WITH 15FT MAST ARM	EACH	7
TING TRAFFIC SIGNAL INSTALLATION	EACH	1
PORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
TED CONTROLLER AND TYPE V CABINET	EACH	1
	EACH	1
WER SUPPLY, STANDARD	EACH	1
	FOOT	816
	FOOT	753
NDUIT, SIGNAL NO. 14 3C	FOOT	743
NDUIT, SIGNAL NO. 14 5C	FOOT	1,438
NDUIT, COMMUNICATION NO. 20 3C	FOOT	743
NDUIT, RAILROAD, NO. 14 3C	FOOT	388
AL SUSPENDED, SIGNAL, NO. 14 2C	FOOT	220
AL SUSPENDED, SIGNAL, NO. 14 3C	FOOT	1,550
AL SUSPENDED, SIGNAL, NO. 14 5C	FOOT	5.069
ACE, 3-SECTION, BRACKET MOUNTED	EACH	2
	EACH	2
EAD, LED, 1-FACE, BRACKET MOUNTED	EACH	4
IFIER	EACH	4
	EACH	2
	EACH	2
GNAL HEAD	EACH	20
	FOOT	1,826
	EACH	1
	EACH	1
TEM	L SUM	1
SHING BEACON ASSEMBLY (COMPLETE)	EACH	1
GNS	EACH	4
NSTALLATION	EACH	1
PORARY LIGHTING SYSTEM	L SUM	1
AL SUSPENDED NO. 20 3/C, TWISTED, SHIELDED	FOOT	827
VAL HEAD AND POST	EACH	2
NAL HEAD	EACH	2
18 FT. (SPECIAL)	EACH	3
ACE, 3-SECTION, SPAN WIRE MOUNTED	EACH	21
AL SUSPENDED, RAILROAD, NO. 14 3C	FOOT	229
AL SUSPENDED, SERVICE, NO. 2 3C	FOOT	21
	FOOT	1,104
IAL)	LUMP SUM	1
ORED, 6"	FOOT	80
ERGROUND CONDUIT	FOOT	135

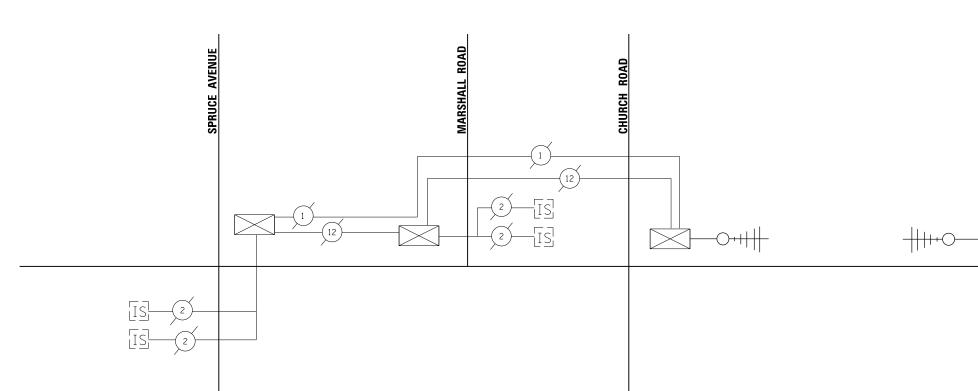
TEMPORARY CONTROLLER SEQUENCE



		SIGNATION DIAGRAM, AND	RTE	SECTION	COUNTY	SHEETS	NO.
		SEQUENCE, STAGE 5	1321	32VB	DUPAGE	371	123
	KD.) AI	YORK ROAD			CONTRACT	NO. 6	OW01
5	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		



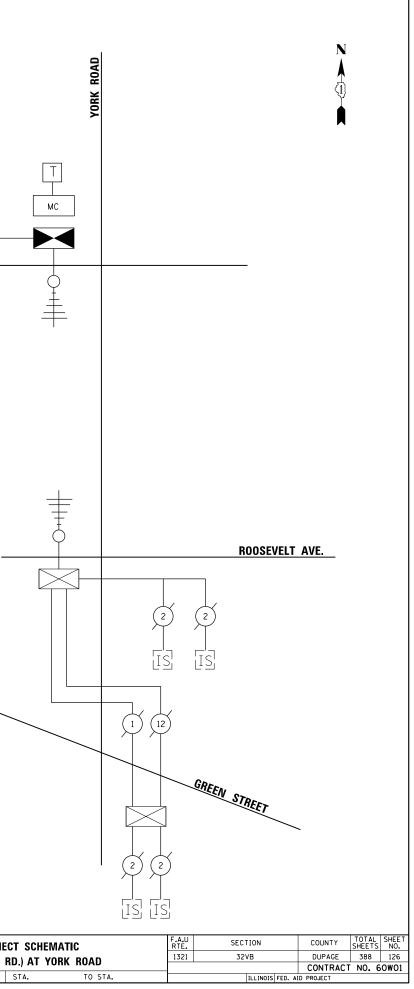


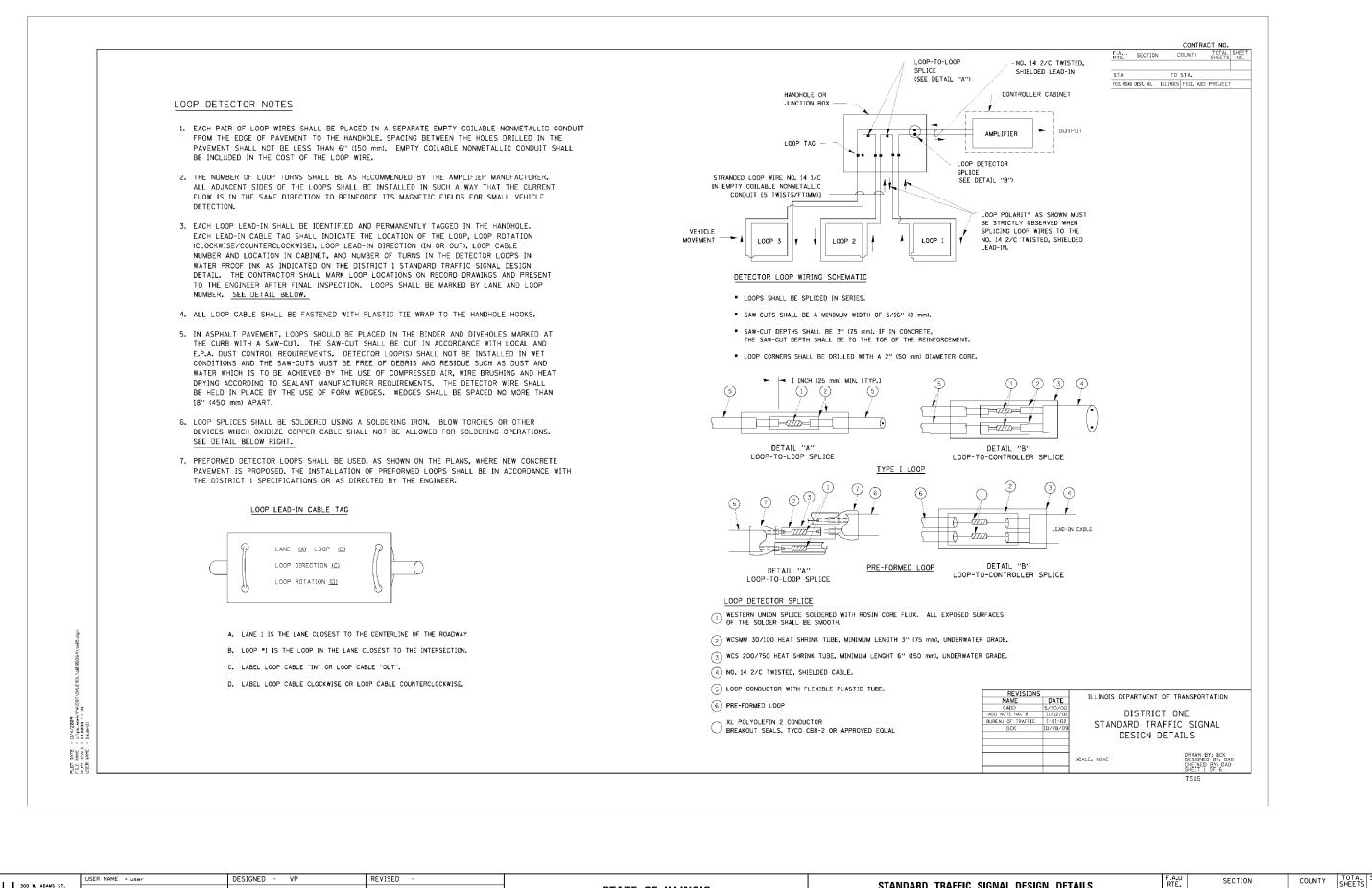


SCHEDULE OF QUANTITIES

ITEM	<u>UNIT</u>	TOTALS
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1
WIRELESS INTERCONNECT (COMPLETE)	EACH	1

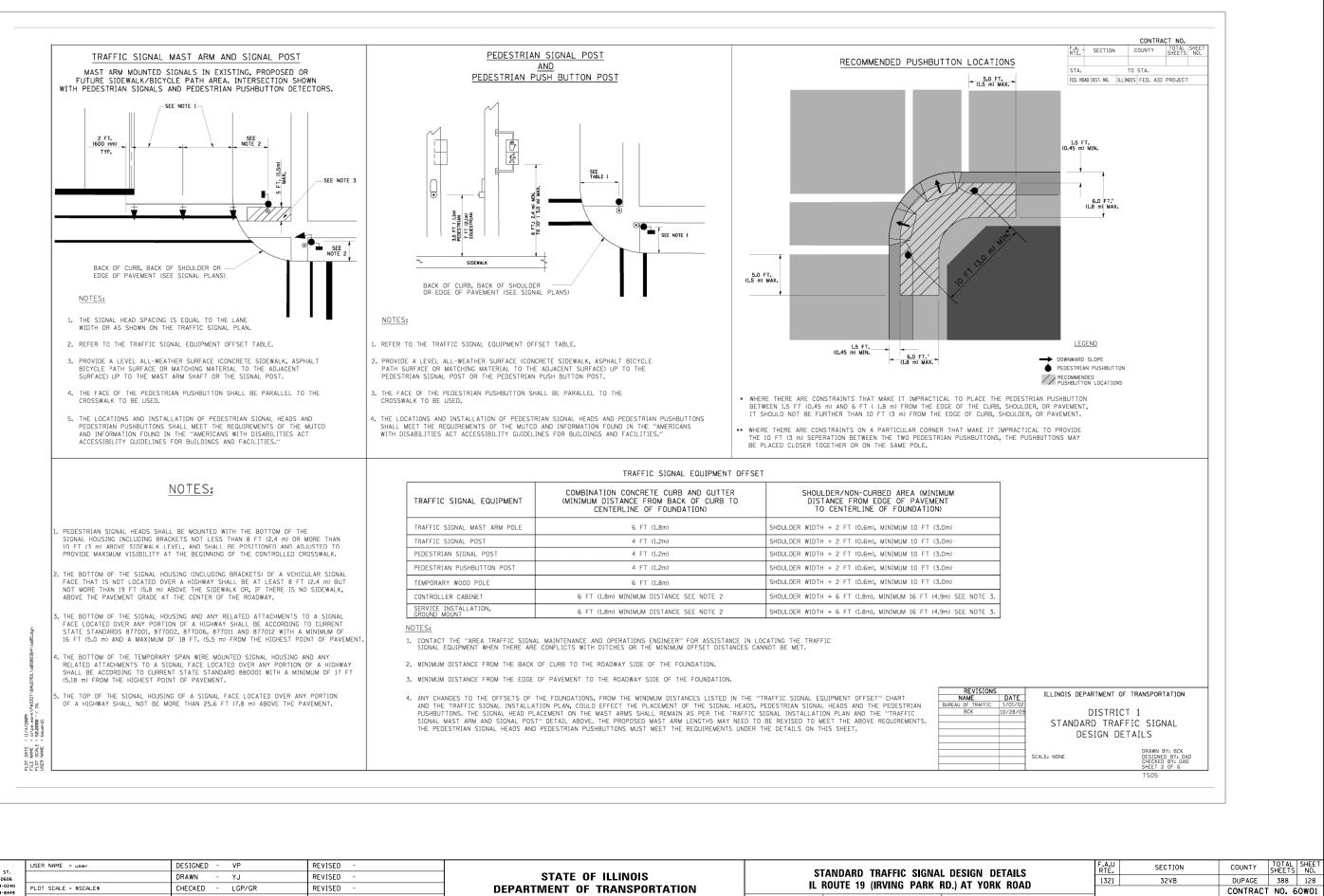
SINGH 300 W. ADAMS ST. CHICAGO, IL 60606 TELI (312) 629-0240	USER NAME = user	DESIGNED - VP DRAWN - YJ	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	II	TEMPORARY INTERCONNECT IL ROUTE 19 (IRVING PARK RD		
SINGH & ASSOCIATES, INC. FELL (3)2, 629-8449 CONSULTING ENGINEERS	PLOT SCALE = \$SCALE\$ PLOT DATE = 11/2/2012	CHECKED - LGP/GR DATE - 11-02-2012	REVISED - REVISED -		SCALE: NTS	SHEET NO. 14 OF 23 SHEETS ST		





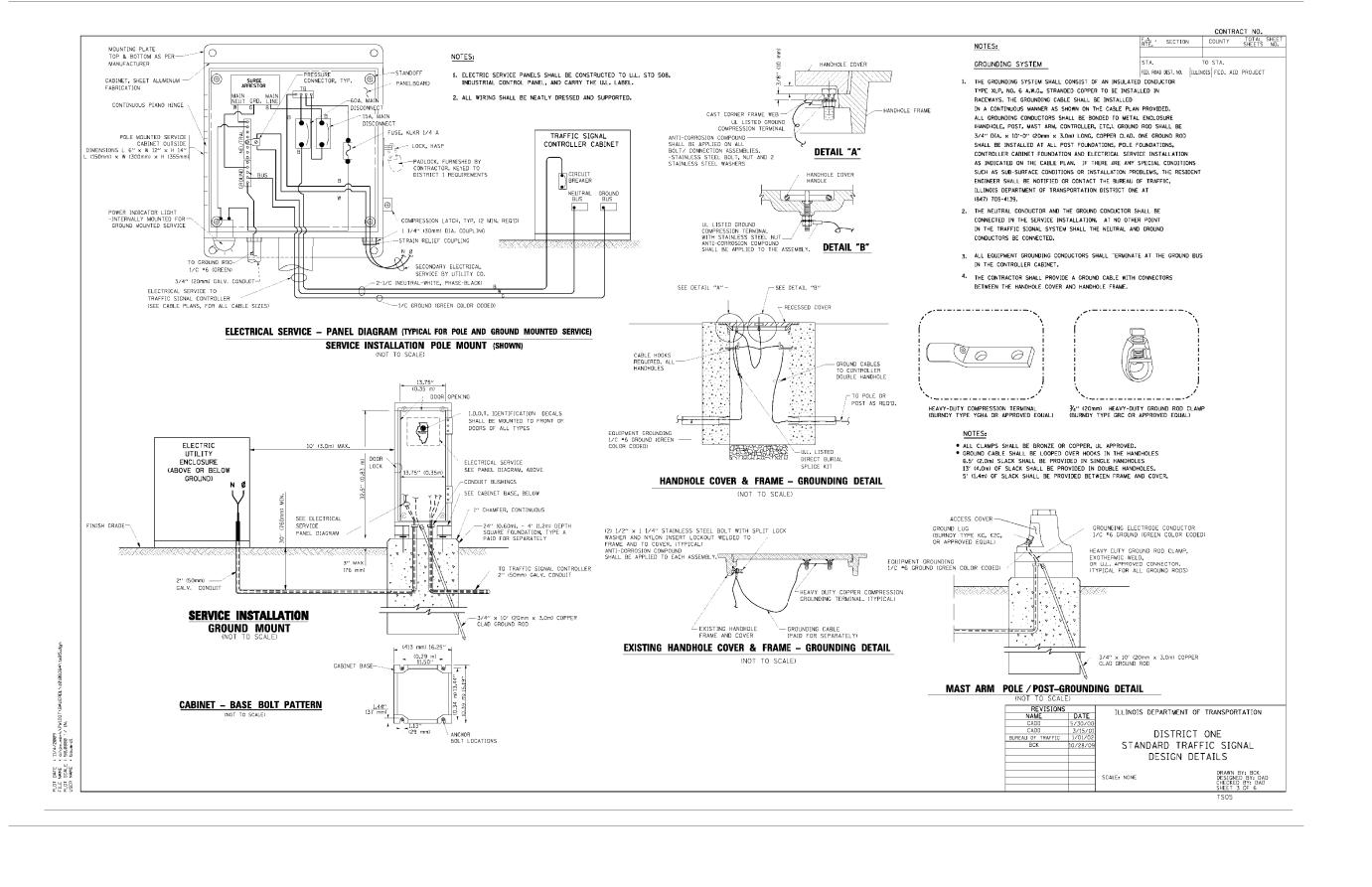
SINGH 300 W. ADAMS ST. CHICAGO, IL 60606	USER NAME = user	DESIGNED - VP DRAWN - YJ	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		TANDARD TRAFFIC SIGNAL
	PLOT SCALE = \$SCALE\$	CHECKED - LGP/GR	REVISED -		IL ROUTE 19 (IRVING PARK R	
CONSULTING ENGINEERS	PLOT DATE = 11/2/2012	DATE - 11-02-2012	REVISED -		SCALE:	SHEET NO. 15 OF 23 SHEETS

4	AL DESIGN DETAILS RD.) AT YORK ROAD		F.A.U RTE.	SECTION		COUNTY	SHEETS	SHEET NO.
			1321	1321 32VB		DUPAGE	388	127
			_			CONTRACT	NO. 6	OW01
	STA.	TO STA.		ILLINOIS	FED. A	ID PROJECT		



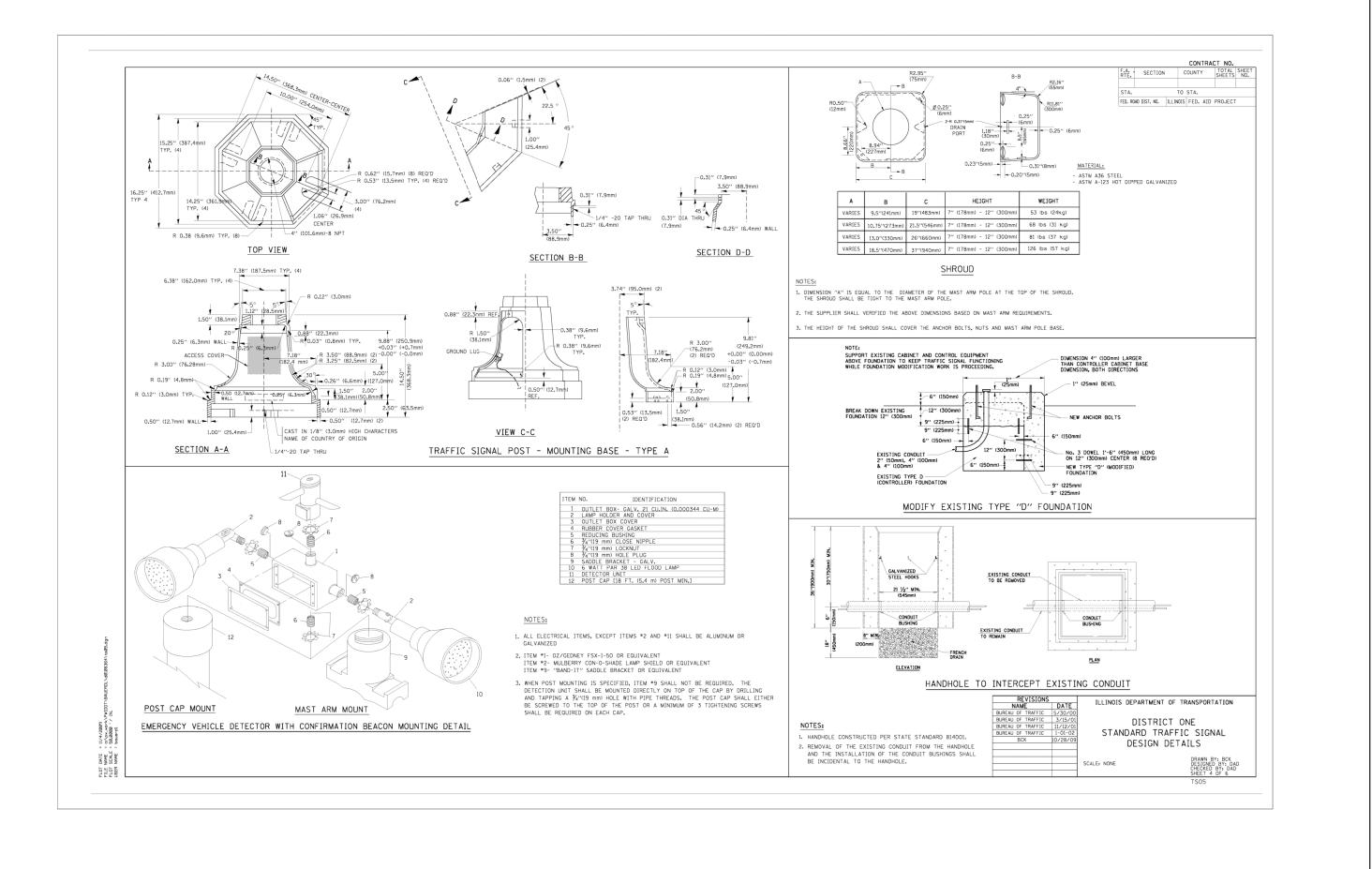
SINGH 300 W. ADAMS ST. CHICAGO, IL 60606	USER NAME = user	DESIGNED - VP DRAWN - YJ	REVISED - REVISED -	STATE OF ILLINOIS		TANDARD TRAFFIC SIGNAL I
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240	PLOT SCALE = \$SCALE\$	CHECKED - LGP/GR	REVISED -	DEPARTMENT OF TRANSPORTATION		ROUTE 19 (IRVING PARK RD.
CONSULTING ENGINEERS	PLOT DATE = 11/2/2012	DATE - 11-02-2012	REVISED -		SCALE:	SHEET NO. 16 OF 23 SHEETS S

HEETS	STA.	TO STA.	ILLINOIS FED. AID	PROJECT

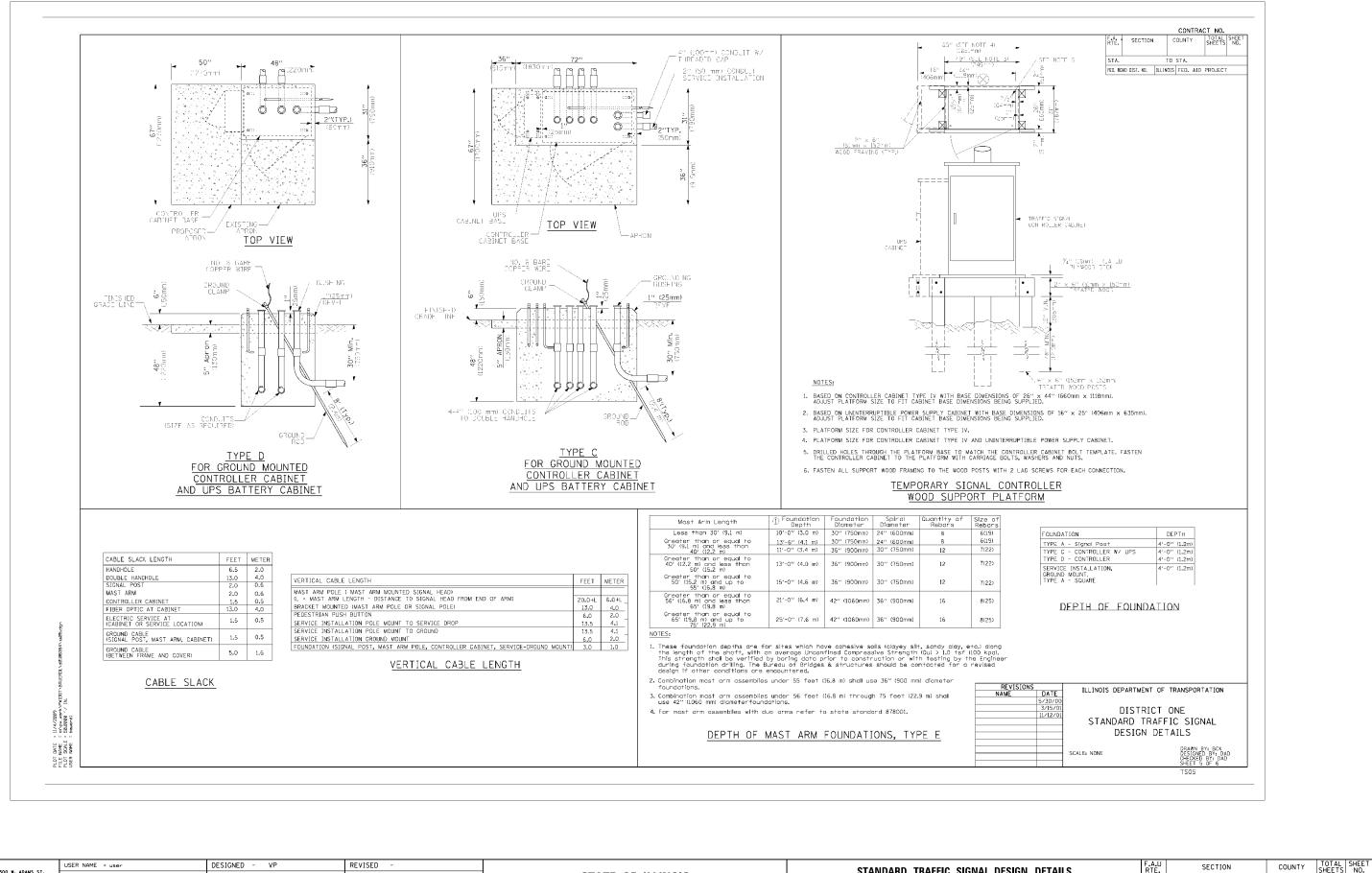


SINGH & ASSOCIATES, INC. TEL: (312) 629-0240 FAX: (312) 629-0240 FAX: (312) 629-0240 FAX: (312) 629-0240		USER NAME = user	DESIGNED - VP	REVISED -		61	TANDARD TRAFFIC SIGNAL
		DRAWN - YJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL IL ROUTE 19 (IRVING PARK F		
	PLOT SCALE = \$SCALE\$	CHECKED - LGP/GR	REVISED -				
	CONSULTING ENGINEERS	PLOT DATE = 11/2/2012	DATE - 11-02-2012	REVISED -		SCALE:	SHEET NO. 17 OF 23 SHEETS

AL DESIGN DETAILS RD.) AT YORK ROAD		F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
					388	129		
, -				CONTRACT	NO. 6	OW01		
STA.	TO STA.		ILLINOIS FED. AID PROJECT					

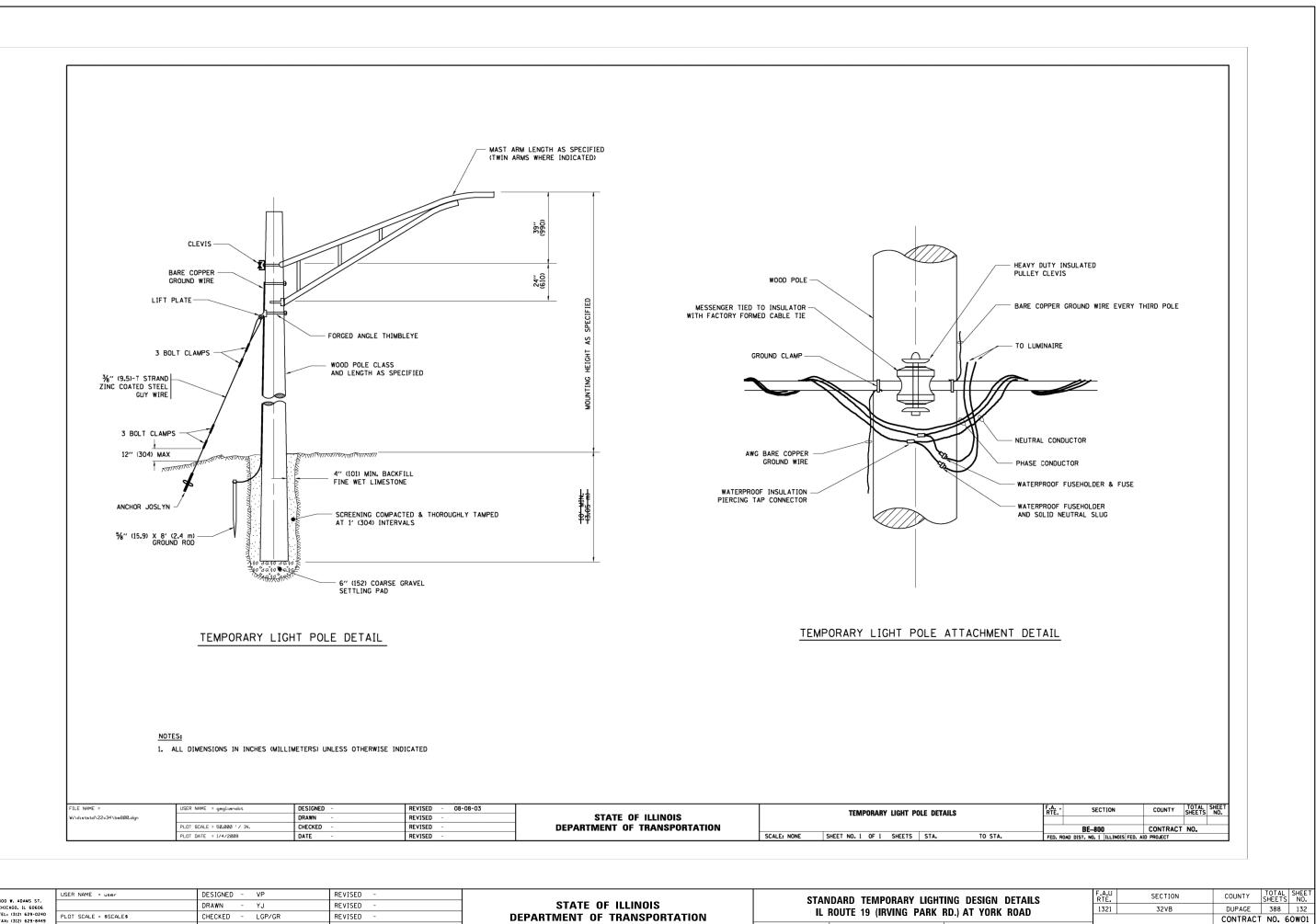


	USER NAME = user	DESIGNED - VP	REVISED -			STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.U RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
SINGH 300 W. ADAMS ST. CHICAGO, IL 60606		DRAWN - YJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 19 (IRVING PARK RD.) AT YORK ROAD			32VB	DUPAGE 388 130
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240	PLOT SCALE = \$SCALE\$	CHECKED - LGP/GR	REVISED -			IL NUUTE 19 (INVINU FANK ND.) AT TUNK NUAD			CONTRACT NO. 60W01
CONSULTING ENGINEERS FAX: (312) 629-8449	PLOT DATE = 11/2/2012	DATE - 11-02-2012	REVISED -		SCALE:	SHEET NO. 18 OF 23 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT	



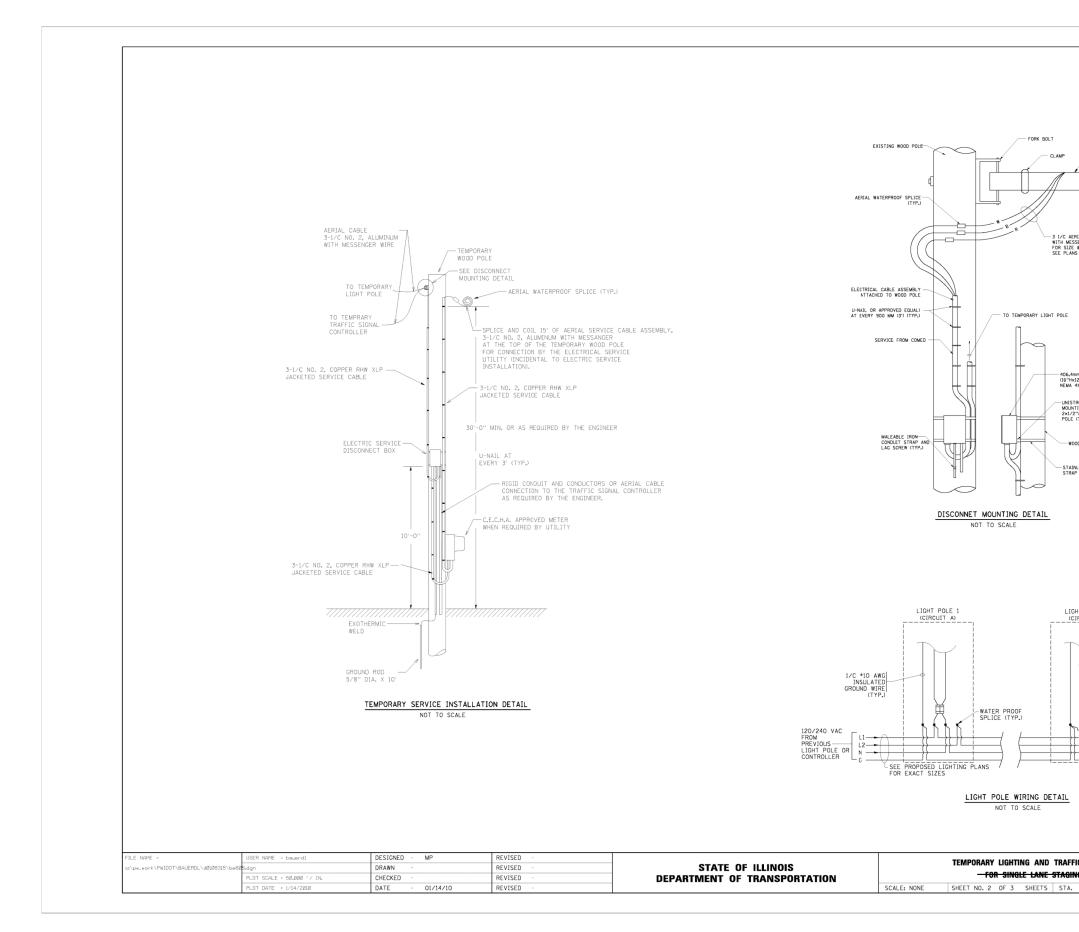
	USER NAME = user	DESIGNED - VP	REVISED -		S	TANDARD TRAFFIC SIGNA	
SINGH CHICAGO. IL 60606		DRAWN - YJ	REVISED -	STATE OF ILLINOIS			
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240	PLOT SCALE = \$SCALE\$	CHECKED - LGP/GR	REVISED -	DEPARTMENT OF TRANSPORTATION	IL ROUTE 19 (IRVING PARK I		
CONSULTING ENGINEERS	PLOT DATE = 11/2/2012	DATE - 11-02-2012	REVISED -		SCALE:	SHEET NO. 19 OF 23 SHEETS	

۱	L DESIGN DETAILS	RIE.	02011011		SHEFLZ	NU.
1	RD.) AT YORK ROAD	1321	32VB	DUPAGE	388	131
	ND./ AT TONK NOAD			CONTRACT	' NO. 6	OW01
	STA. TO STA.		ILLINOIS FED. A	ID PROJECT		



	USER NAME = user	DESIGNED - VP	REVISED -		стал	NDARD TEMPORARY LIGHT	
SINGH 300 W. ADAMS ST. CHICAGO, IL 60606		DRAWN - YJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STANDARD TEMPORARY LIGHT IL ROUTE 19 (IRVING PARK I		
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240	PLOT SCALE = \$SCALE\$	CHECKED - LGP/GR	REVISED -				
CONSULTING ENGINEERS	PLOT DATE = 11/2/2012	DATE - 11-02-2012	REVISED -		SCALE:	SHEET NO. 20 OF 23 SHEETS	

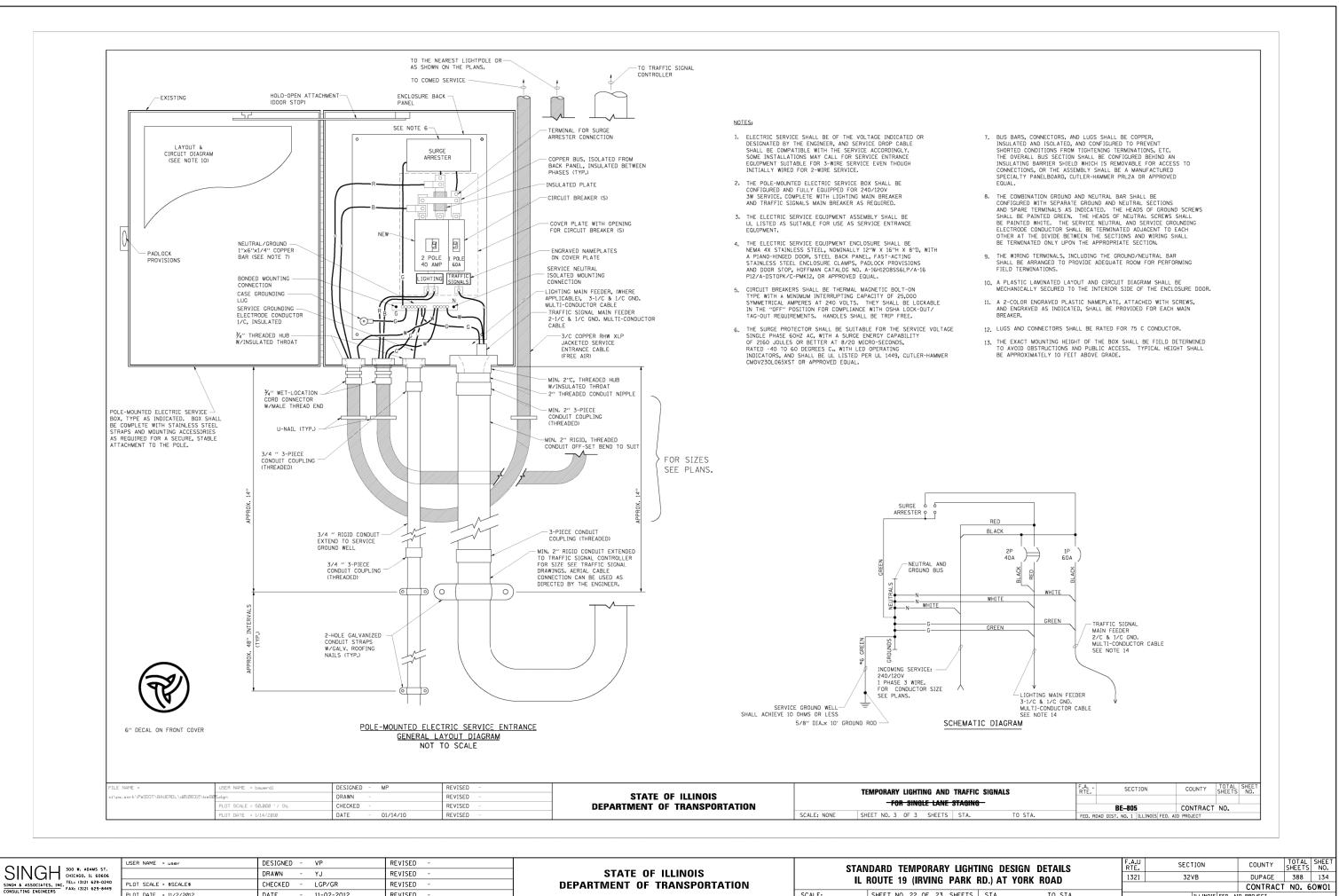
IEETS	STA.	TO STA.	ILLINOIS FED. A		ID PROJE	СТ



SINGH & ASSOCIATES, INC. SINGH & ASSOCIATES, INC. TEL: (312) 629-8449 FAX: (312) 629-8449	USER NAME = user PLOT SCALE = \$SCALE\$	DESIGNED - VP DRAWN - YJ CHECKED - LGP/GR	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	-	IDARD TEMPORARY LIGHTI Route 19 (Irving Park R
CONSULTING ENGINEERS FAX: (312) 629-8449	PLOT DATE = 11/2/2012	DATE - 11-02-2012	REVISED -		SCALE:	SHEET NO. 21 OF 23 SHEETS

MESSENGER TIED TO INSULATION WITH FACTO FORMED CABLE TIE. CON ENSURE THAT THE MESS IS GROUNDED AT THE CO	RY TRACTOR ENCER WIRE					
IS GROUNDED AT THE C	OM ED SIDE.					
ERVICE CABLE						
RVICE CABLE WIRE VICE VOLTAGE						
.8mmx203.2mm MAX. 'D) LOSURE						
HANNEL FOR F SERVICE BOX. AG SCREW TO						
ε						
TEEL						
DLE 2 T_B)TO LUMINAI	RE					
(TYP.) 1/C-#10 AWC COLOR CODE	, 600V D CABLE					
TWO-POLE B AWAY FUSE WITH INSUL- BOOTS AND FUSE ON TH WIRES AND SLUG ON NE WIRES (TYP.	5 AMP E LINE SOLID UTRAL					
	GROUND ROD (W	HEN INSTALLED)				
L2 N G	TO NEXT LIGHT POLE					
	F.A	SECTION	COUNTY	TOTAL	SHEET	
				SHEETS	NO.	
IGNALS - TO STA.	F.A RTE.	SECTION BE-805 DIST. NO. 1 ILLINOIS FED	CONTRACT			

ITING DESIGN DETAILS RD.) AT YORK ROAD		F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		1321	1321 32VB			388	133	
		_			CONTRACT	NO. 6	OW01	
5	STA.	TO STA.		ILLINO	S FED. A	ID PROJECT		
_					-			



IL ROUTE 19 (IRVING PARK REVISED **DEPARTMENT OF TRANSPORTATION** SCALE: REVISED

LOT SCALE = \$SCALE\$

PLOT DATE = 11/2/2012

CHECKED

DATE

LGP/GR

11-02-2012

SHEET NO. 22 OF 23 SHEETS

ITING DESIGN DETAILS		RTE.	SECTION			COUNTY	SHEETS	NO.		
		YORK ROAD	1321	32V	В		DUPAGE	388	134	
	., AI	TONK NOAD	_				CONTRACT	NO. 6	50W01	
ŝ	STA.	TO STA.		1	ILLINOIS F	ED. AIC	PROJECT			

ABBREVIATIONS

AC AFG	ALTERNATING CURRENT ABOVE FINISHED GRADE
AFG	ATTACHED TO STRUCTURE
СВ	CIRCUIT BREAKER
СКТ	CIRCUIT
СТ	CURRENT TRANSFORMER
DIA	DIAMETER
FND	FOUNDATION
FT	FOOT
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
IN	INCH
JB	JUNCTION BOX
KVA	KILOVOLT - AMPERE
КW	KILOWATTS
МН	MOUNTING HEIGHT
NO, #	NUMBER
PB	PUSH BUTTON
PB PNL	PUSH BUTTON PANEL
-	
PNL	PANEL PVC COATED RIGID
PNL PVC RGC	PANEL PVC COATED RIGID GALVANIZED CONDUIT
PNL PVC RGC RECP	PANEL PVC COATED RIGID GALVANIZED CONDUIT RECEPTACLE
PNL PVC RGC RECP RGC	PANEL PVC COATED RIGID GALVANIZED CONDUIT RECEPTACLE RIGID GALVANIZED CONDUIT
PNL PVC RGC RECP RGC SEL SW	PANEL PVC COATED RIGID GALVANIZED CONDUIT RECEPTACLE RIGID GALVANIZED CONDUIT SELECTOR SWITCH
PNL PVC RGC RECP RGC SEL SW SS	PANEL PVC COATED RIGID GALVANIZED CONDUIT RECEPTACLE RIGID GALVANIZED CONDUIT SELECTOR SWITCH STAINLESS STEEL
PNL PVC RGC RECP RGC SEL SW SS STA	PANEL PVC COATED RIGID GALVANIZED CONDUIT RECEPTACLE RIGID GALVANIZED CONDUIT SELECTOR SWITCH STAINLESS STEEL STATION
PNL PVC RGC RECP RGC SEL SW SS STA TYP	PANEL PVC COATED RIGID GALVANIZED CONDUIT RECEPTACLE RIGID GALVANIZED CONDUIT SELECTOR SWITCH STAINLESS STEEL STATION TYPICAL
PNL PVC RGC RECP RGC SEL SW SS STA TYP UD	PANEL PVC COATED RIGID GALVANIZED CONDUIT RECEPTACLE RIGID GALVANIZED CONDUIT SELECTOR SWITCH STAINLESS STEEL STATION TYPICAL UNIT DUCT
PNL PVC RGC RECP RGC SEL SW SS STA TYP UD WP	PANEL PVC COATED RIGID GALVANIZED CONDUIT RECEPTACLE RIGID GALVANIZED CONDUIT SELECTOR SWITCH STAINLESS STEEL STATION TYPICAL UNIT DUCT WEATHERPROOF

ELECTRICAL SYMBOLS

UNDERPASS LIGHTING UNIT (PRIMARY LIGHT DISTRIBUTION PATTERN DIRECTION AS INDICATED BY ARROW). 100W HPS, VSNC4 DISTRIBUTION, 240 VOLT.

JUNCTION BOX ATTACHED TO STRUCTURE, SIZE AS INDICATED

EXISTING HANDHOLE

PROPOSED LIGHTING CONTROL CABINET

EXISTING TEMPORARY LIGHTING CONTROLLER.

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PROPOSED ELECTRIC SERVICE POLE EXISTING TELEPHONE EXISTING GAS RACEWAY UNDERGROUND CONDUIT ATTACHED TO STRUCTURE CONTROL CABINET DESIGNATION CIRCUIT DESIGNATION POLE NUMBER ON CIRCUIT

ELECTRICAL GENERAL NOTES:

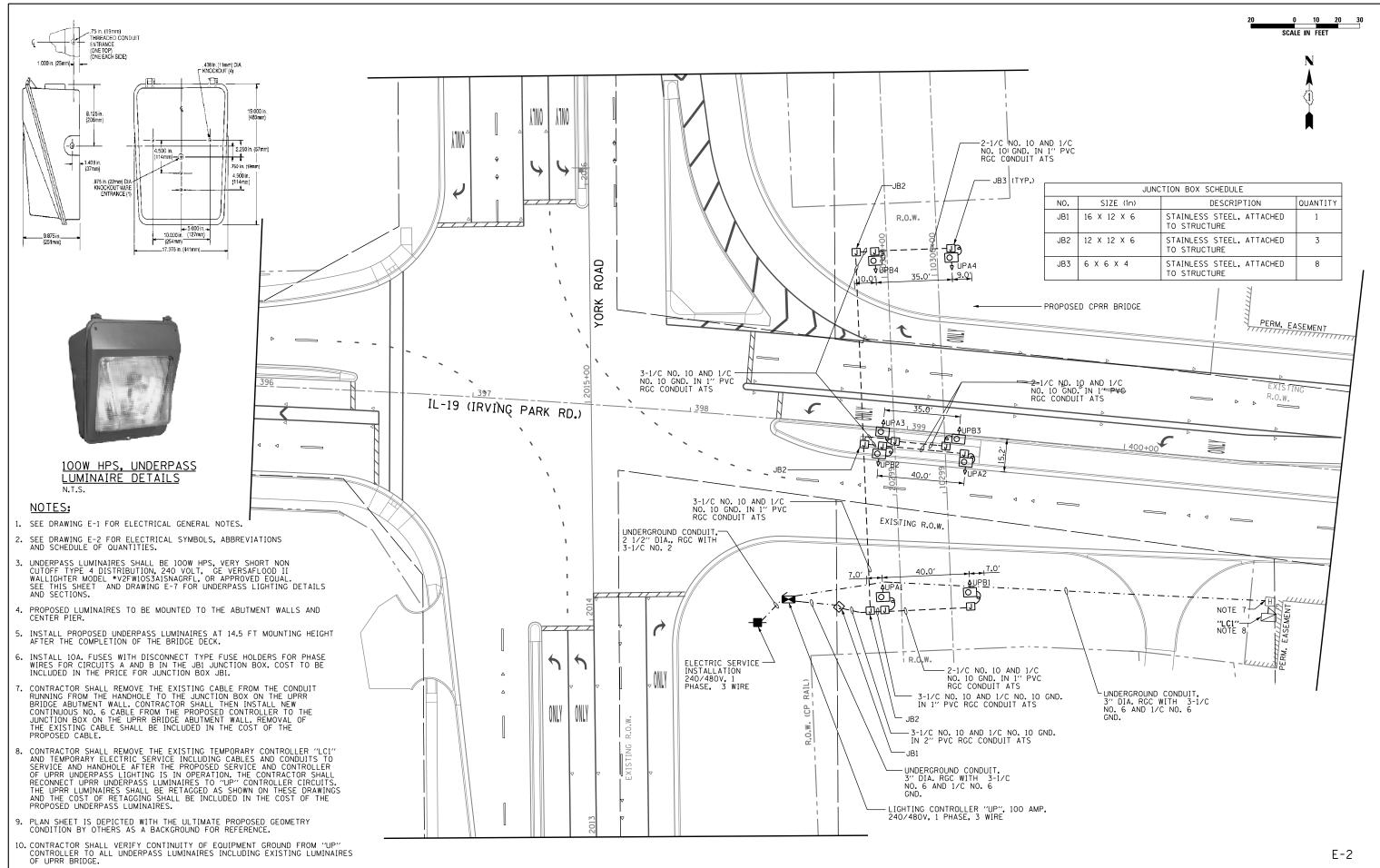
- 1. SPECIAL CARE SHALL BE TAKEN DURING TRENCHING OPERATIONS DUE TO THE NUMBER OF UTILITIES ALONG IRVING PARK RD. AND YORK RD.
- 2. QUANTITIES OF UNDERGROUND CONDUIT, AND CONDUIT ATTACHED TO STRUCTURE WHERE INDICATED ON PLAN DRAWINGS, ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH SPECIFIED REQUIREMENTS.
- 3. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR GROUNDING. GROUNDING CONNECTIONS AT THE LIGHTING CONTROLLER SHALL BE EXOTHERMIC, AS APPLICABLE, AND SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO ENERGIZING THE LIGHTING CIRCUITS.
- 4. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR A BURIED WARNING TAPE INCLUDED AS PART OF THE UNDERGROUND CONDUIT WORK. THE INSTALLATION OF THE TAPE SHALL BE INSPECTED BY THE ENGINEER PRIOR TO BACKFILLING.
- 5. LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT AND STAINLESS STEEL JUNCTION BOXES SHALL BE FURNISHED AND INSTALLED AT ALL LOCATIONS SUSCEPTIBLE TO EXPANSION, CONTRACTION, OR DEFLECTION. THE COST OF FURNISHING AND INSTALLING SUCH FITTINGS SHALL NOT BE PAID FOR SEPARATELY BUT, SHALL BE INCLUDED IN THE PRICE OF THE ASSOCIATED CONDUIT TO WHICH THESE FITTINGS ARE CONNECTED.

DESCRIPTION	UNIT	QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	1
ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
UNDERGROUND CONDUIT, 2 1/2" DIA., GALVANIZED STEEL	FOOT	26
UNDERGROUND CONDUIT, 3" DIA., GALVANIZED STEEL	FOOT	246
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	342
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	25
CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	10
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" x 6" x 4"	EACH	8
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" × 12" × 6"	EACH	3
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16" × 12" × 6"	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1532
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	354
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	40
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 6	FOOT	354
UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	8
LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 100AMP	EACH	1
REMOVAL OF LIGHTING CONTROLLER	EACH	1
REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
DRILL EXISTING HANDHOLE	EACH	1

	USER NAME = user	DESIGNED - MK	REVISED -			F.A.U RTF	SECTION	COUNTY TOTAL SHEET
SINGH 300 W. ADAMS ST. CHICAGO, IL 60606		DRAWN - YJ	REVISED -	STATE OF ILLINOIS	ELECTRICAL SYMBOLS, ABBREVIATIONS, SCHEDULE OF QUANTITIES IL ROUTE 19 (IRVING PARK RD.)		32VB	DUPAGE 388 135
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240 CONSULTING ENGINEERS FAX: (312) 629-8449	PLOT SCALE = \$SCALE\$	CHECKED - LGP/GR	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 60W01
CONSULTING ENGINEERS	PLOT DATE = 11/2/2012	DATE - 11-02-2012	REVISED -		SCALE: NONE SHEET NO. 1 OF 7 SHEETS STA. TO STA.		ILLINOIS FED. A	AID PROJECT

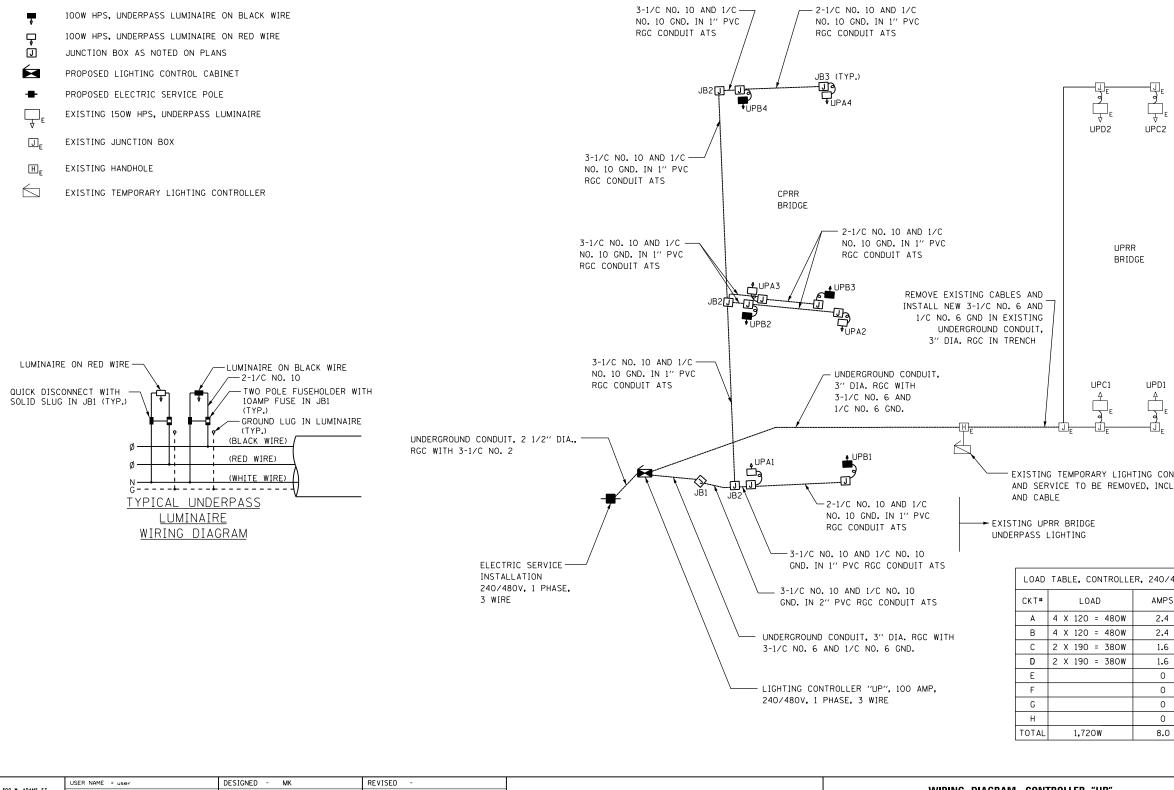
SCHEDULE OF QUANTITIES

E-1



	USER NAME = user	DESIGNED -	МК	REVISED -		UNDERPASS LIGHTING PLAN			F.A.U RTE	SECTION	COUNTY	TOTAL SHEETS	HEET NO.	
SINGH CHICAGO. IL 60606		DRAWN -	YJ	REVISED -	STATE OF ILLINOIS	INDIS					32VB	DUPAGE	388 1	136
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240	PLOT SCALE = \$SCALE\$	CHECKED -	LGP/GR	REVISED -	DEPARTMENT OF TRANSPORTATION	IL ROUTE 19 (IRVING F	IL ROUTE 19 (IRVING PARK RD.))			CONTRACT	T NO. 60	WO1
CONSULTING ENGINEERS FAX: (312) 629-6449	PLOT DATE = 11/2/2012	DATE -	11-02-2012	REVISED -		SCALE: 1"=20'	SHEET NO. 2 OF 7 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJEC				

ELECTRICAL SYMBOLS



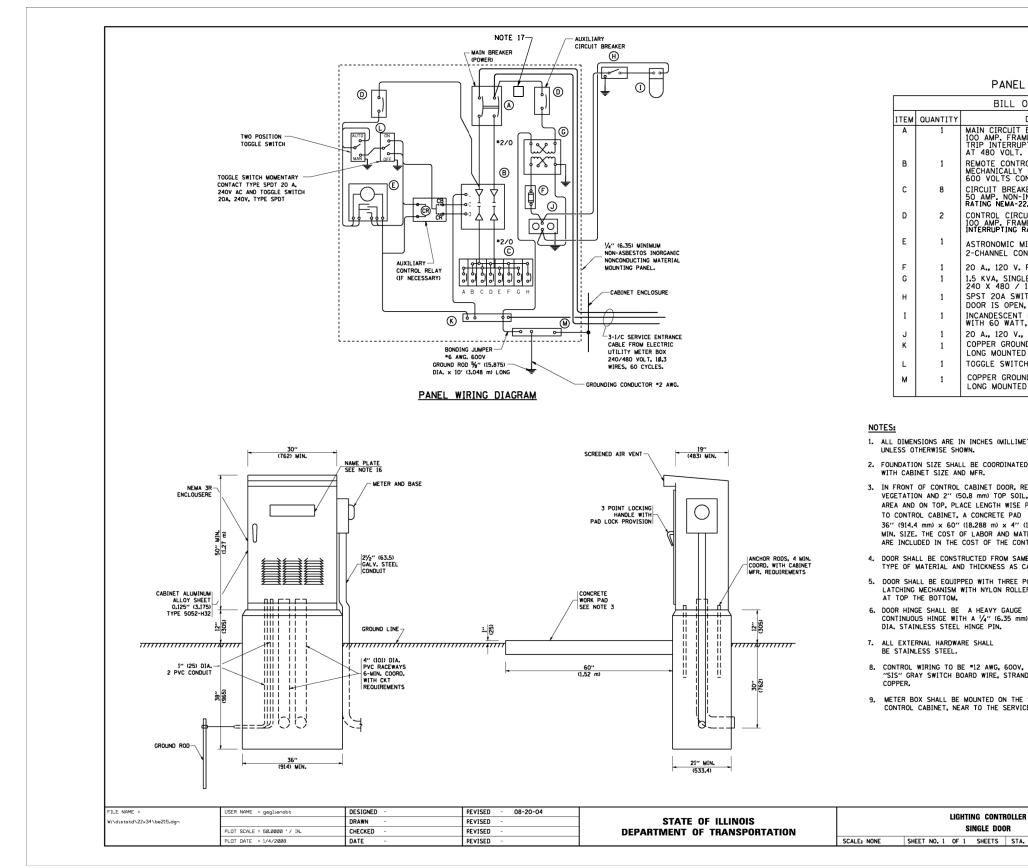
	USER NAME = user	DESIGNED - MK	REVISED -		STATE OF ULINOIS WIRING DIAGRAM CONTROLLER "UP"		COUNTY TOTAL SHEET
SINGH 300 W. ADAMS ST. CHICAGO, IL 60606 TELL (312) 629-0240		DRAWN - YJ	REVISED -	STATE OF ILLINOIS	IL ROUTE 19 (IRVING PARK RD.)	1321 32VB	DUPAGE 388 137
SINGH & ASSOCIATES, INC. TEL: (312) 529-0240 CONSULTING ENGINEERS FAX: (312) 629-8449	PLOT SCALE = \$SCALE\$	CHECKED - LGP/GR	REVISED -	DEPARTMENT OF TRANSPORTATION			CONTRACT NO. 60W01
	PLOT DATE = 11/2/2012	DATE - 11-02-2012	REVISED -		SCALE: NONE SHEET NO. 3 OF 7 SHEETS STA. TO STA.	ILLINOIS FED. A	ID PROJECT



EXISTING TEMPORARY LIGHTING CONTROLLER "LC1" AND SERVICE TO BE REMOVED, INCLUDING CONDUIT

LOAD	LOAD TABLE, CONTROLLER, 240/480V, 1 PHASE, 3 WIRE								
CKT#	LOAD	AMPS	RED PHASEBLACK PHAS WATTS WATTS						
А	4 X 120 = 480W	2.4	480	-					
В	4 X 120 = 480W	2.4	-	480					
С	2 X 190 = 380W	1.6	380	-					
D	2 X 190 = 380W	1.6	-	380					
Е		0	0	-					
F		0	-	0					
G		0	0	-					
Н		0	-	0					
OTAL	1,720W	8.0	860	860					

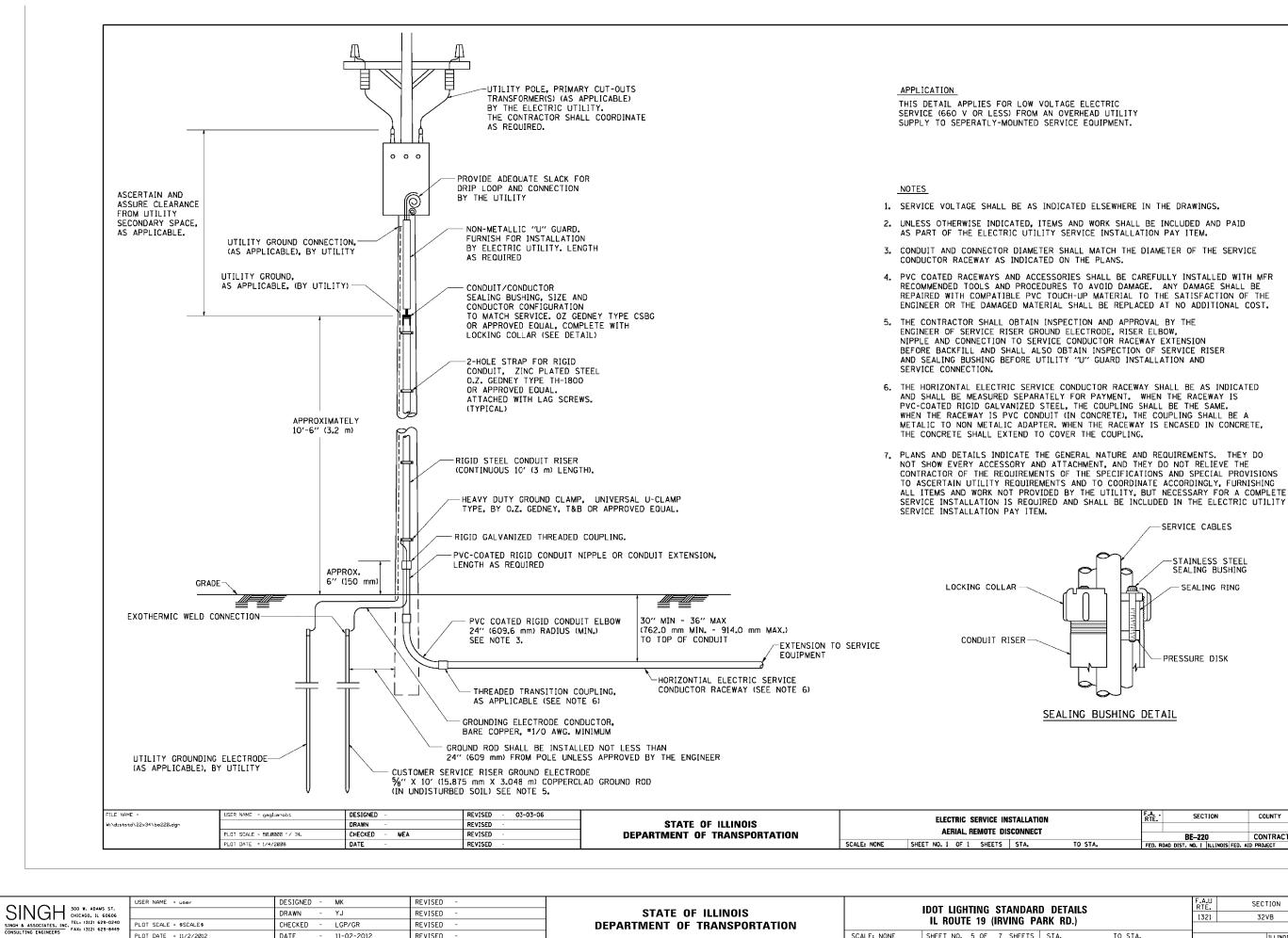
E-3



		USER NAME = user	DESIGNED - MK	REVISED -					F.A.U RTF	SECTION	COUNTY T	TOTAL SHEET
SINGH SINGH CHICAGO, IL 60606		DRAWN - YJ	REVISED -	STATE OF ILLINOIS	IDOT LIGHTING STANDARD DETAILS		-	1321	32VB	DUPAGE	388 138	
SINGH & ASSOCIATES, INC.	SINGH & ASSOCIATES, INC. TEL: (312) 629-0240	PLOT SCALE = \$SCALE\$	CHECKED - LGP/GR	REVISED -	DEPARTMENT OF TRANSPORTATION	IL ROUTE 19 (IRVING PARK RD.)					CONTRACT	
CONSULTING ENGINEERS		PLOT DATE = 11/2/2012	DATE - 11-02-2012	REVISED -		SCALE: NONE	SHEET NO. 4 OF 7 SHEETS STA.	TO STA.		ILLINOIS FED.	ND PROJECT	

IEL EQUIPA	/EN	Т							
L OF MATER	IAL								
DESCRIPTIO		LE, 600 VOL		F					
IT BREAKER, 2 RAME, 100 AMF RUPTING RATIN LT.	NG N	EMA-22000	NGEABI AMP.	-E					
NTROL SWITCH, LY HELD, 2 PC CONTROL CIRC									
EAKERS, 1 POL DN-INTERCHANG A-22,000 AMP.	E, 1 EABL AT 2	OOAMP. FRAN E TRIP INTE 40V.	IE ERRUPT	ING					
IRCUIT-CIRCUIT RAME, 15 AMP. NG RATING NEMA			LE, 24 GEABLE 240 V	O V. TRIP					
C MICROPROCES									
V. FUSE.	NCA								
NGLE PHASE, E / 120 X 240 SWITCH ON DOO	VOL	T, 60 Hz.							
PEN.					,				
ATT, 120 V. LA V., DUPLEX RE	ΑMP.			5					
OUND BUS 1/4"	(6.3	5) X 1" (25.	4) X 1		mm)				
ITCHES MOUNTE	ED I	N 4" (101.6)	X 4"	(101 . 6 mm)					
OUND BUS 1/4" ITED ON PANEL					mm)				
LIMETERS) ATED		CABINETS SHA	-						
R, REMOVE	11.	THE HEADS OF WHITE FOR NE BAR CONNECT	UTRAL	CTORS SCRE BAR CONNEC	WS SHALL TION AND (BE PAINTED GREEN FOR) GROUNI	b	
SOIL, LEVEL THE	12.	ALL WIRING W	ITHIN .		SHALL BE				
AD 4'' (101 mm)		R = RED B = BLACK	BL	= BLUE YELLOW	W = WHITE G = GREEN				
MATERIALS CONTROLLER.	13.	PROVIDE SEAL							
SAME S CABINET.		WIRING EXTEN OR CABINETS	WITHIN	THE CONTRO	IN BOXES	•			
E POINT DLLERS	14.	ALL WIRING S	HALL B	E NEATLY DR	RESSED AND				
JGE		THE CONTROLL)			
mm)		"ENCLOSED IN 12" (304.8) X	DUSTRI	L CONTROL	PANEL".				
	10.	STEEL EXTERI ENGRAVED TO OTHERWISE	OR NAM "CITY	EPLATE SHAL OF CHICAG	LL BE				
OV, TYPE RANDED	17.	ADD WARNIN CIRCUITS EN IS OFF.							
THE SIDE OF RVICE POLE.									
			F.A RTE.	SECT1	T	COUNTY	I TOTAL	SHEET	
LLER			RTÉ.	SECTI	ON	COUNTY	TOTAL SHEETS	S NO.	

E-4



PLOT DATE = 11/2/2012

DATE

11-02-2012

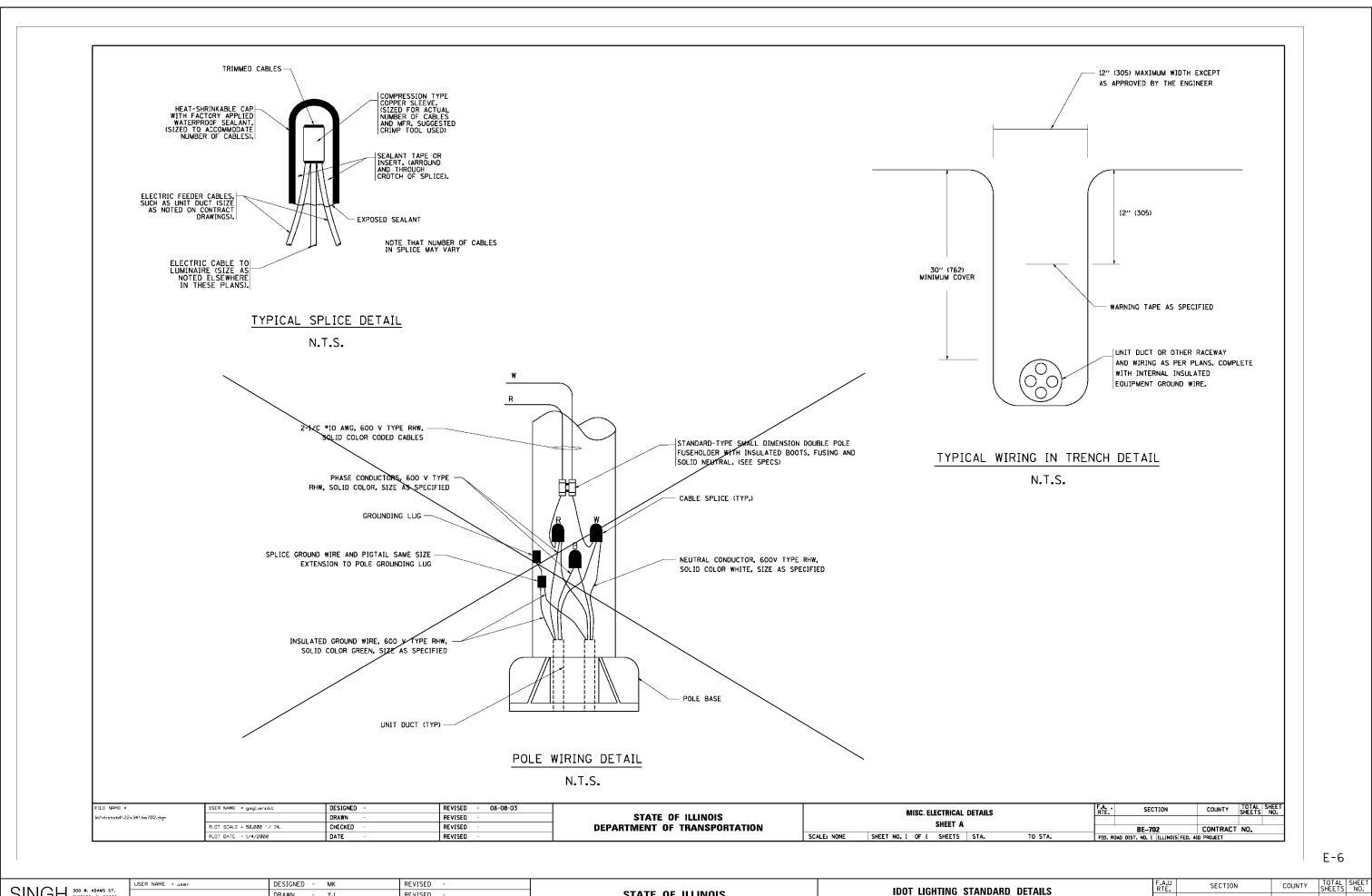
REVISED

SCALE: NONE

ECT		BE-220 DAD DIST. NO. 1 ILLINOIS FED. AI	CONTRACT NO.			
		BE-220		NO.		
FCT						
ATION	F.A RTE.	F.A SECTION		TOTAL SHEET SHEETS NO.		

E-5

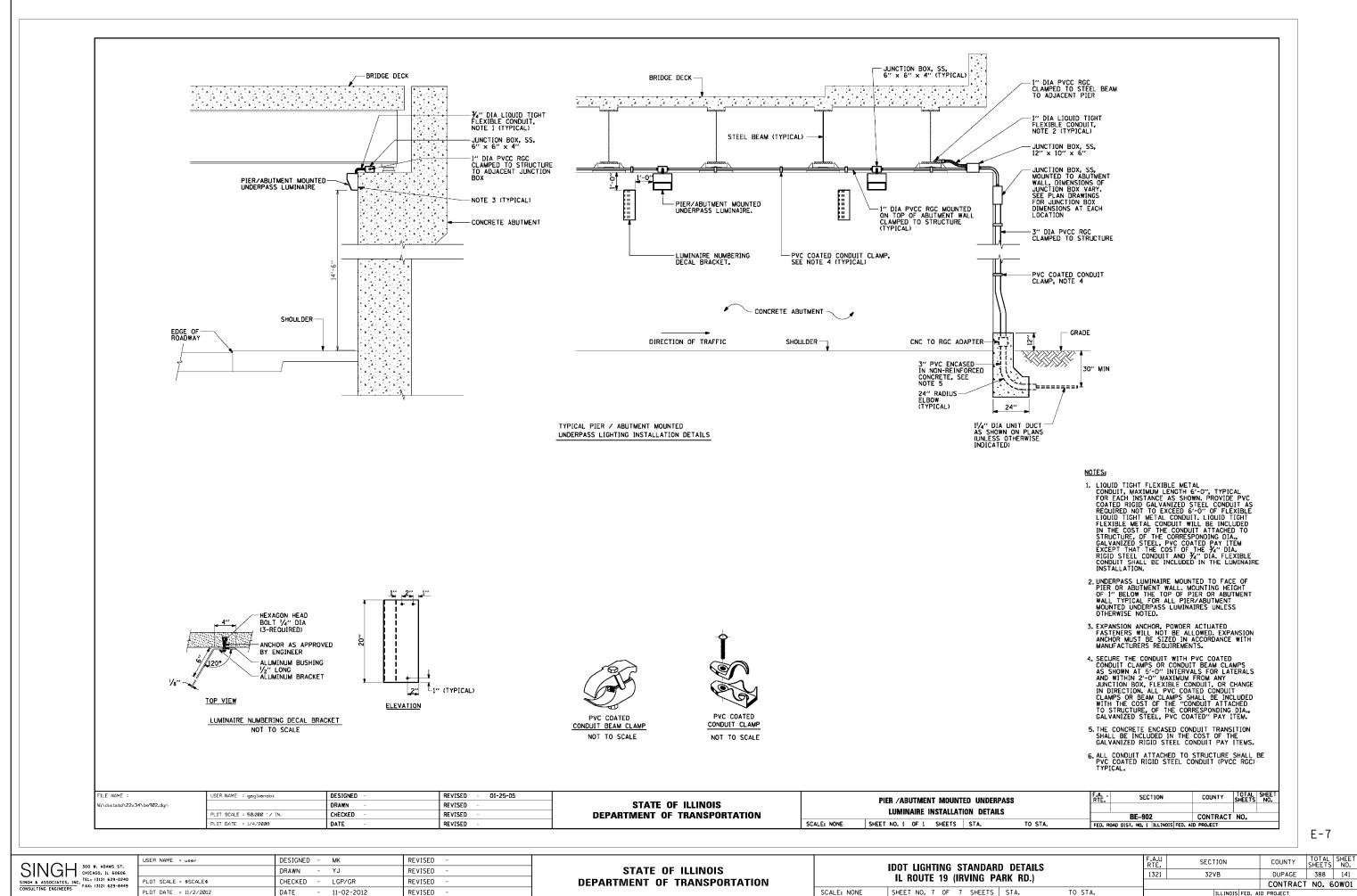
 IDOT LIGHTING STANDARD DETAILS					F.A.U RTE.	SECTION	COUNTY TOTAL SHEE SHEETS NO.		
IL ROUTE 19 (IRVING PARK RD.)				1321	32VB	DUPAGE	388	139	
IL NUUTL 15 (INVING FANK ND.)							CONTRACT	NO. 6	SOW01
SHEET NO. 5 OF	7	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				



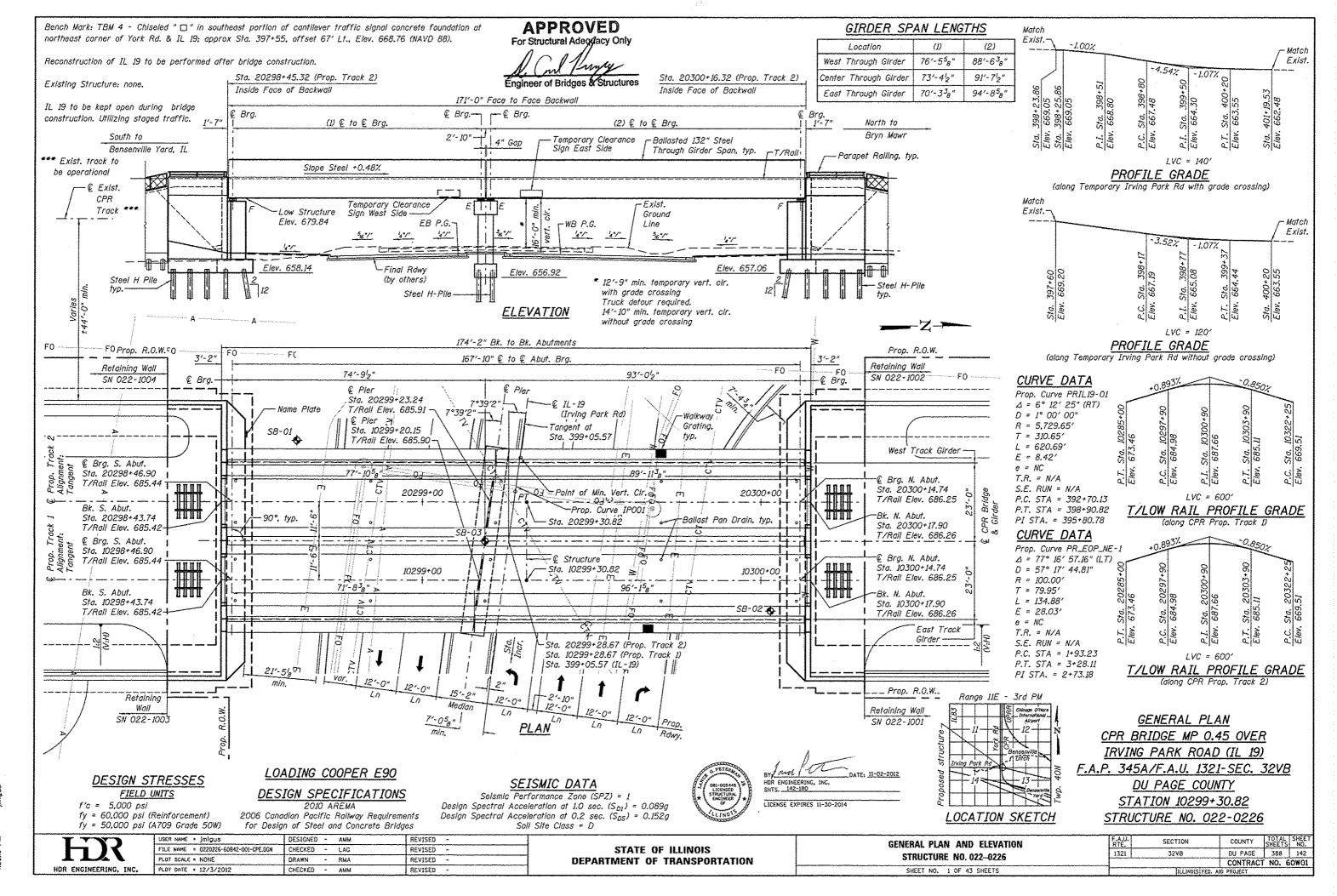
	USER NAME = user	DESIGNED - MK	REVISED -			
SINGH 300 W. ADAMS ST. CHICAGO, IL 60606		DRAWN - YJ	REVISED -	STATE OF ILLINOIS		IDOT LIGHTING STANDARD DETAILS
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240	PLOT SCALE = \$SCALE\$	CHECKED - LGP/GR	REVISED -	DEPARTMENT OF TRANSPORTATION		IL ROUTE 19 (IRVING PARK RD.)
CONSULTING ENGINEERS FAX: (312) 629-8449	PLOT DATE = 11/2/2012	DATE - 11-02-2012	REVISED -		SCALE: NONE	SHEET NO. 6 OF 7 SHEETS STA.

DUPAGE 388 140 1321 32VB CONTRACT NO. 60W01 ILLINOIS FED. AID PROJECT

TO STA.



RD DETAILS PARK RD.)		F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
		1321	32VB	DUPAGE	388	141			
				CONTRACT NO. 60W01					
	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT				



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GENERAL NOTES:

- 1. Fasteners shall be A325 Type 1 mechanically galvanized bolts. Countersunk bolts shall be A449 Type 1 mechanically galvanized. Bolts shall be 7_8 in. diameter, holes ${}^{15}_{16}$ in. diameter, unless otherwise noted.
- 2. Fabrication of steel components shall be in accordance with 2010 AREMA Chapter 15, Part 3.
- 3. Calculated weight of Structural Steel:

or siruciului	5/00/
295,130 Lb.	ASTM A709 Gr. 50F3
755,240 Lb.	ASTM A709 Gr. 50T3
72,110 Lb.	ASTM A709 Gr. 50
1,380 Lb.	ASTM A36

4.	Structural Steel shall be as follows unless noted otherwise:	
	Girder Bottom Flanges, Webs, and End Floorbeams	ASTM A709 Gr. 50F3
	Lateral Bracing System, Walkway Brackets and Walkway Supports	ASTM A709 Gr. 50
	Handrail Pipe	ASTM A53 Gr. B
	Cover Plates and Handrail Base Plates	ASTM A36
	All other Structural Steel	ASTM A709 Gr. 50T3
	Anchor Rods	ASTM F1554 Gr. 105

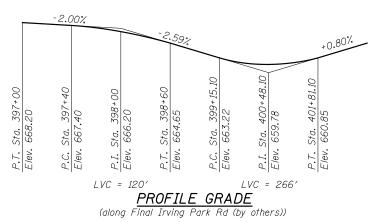
- 5. The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception that masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4. See Special Provision for "Cleaning and Painting New Metal Structures".
- 6. Steel components designated as galvanized shall be galvanized per ASTM A123. latest edition.
- 7. Steel components designated as metallized shall be metallized per AWS C2.2, latest edition. Minimum thickness of zinc coatings to be 150 microns.
- 8. Structural steel members designated as Fracture Critical Members (F.C.M.) shall meet the requirements of ASTM A705 Gr. 50F3.
- 9. Welding of steel components shall be in accordance with AWS D1.5, latest edition. All flange-to-web fillet welds and 25% of all other welds shall be tested by magnetic particle method (MPT). All flange-to-web complete joint penetration welds shall be tested by ultrasonic method (UT). All butt joints in flanges and webs shall be tested by radiographic method (RT).
- 10. No field welding is permitted.
- 11. Reinforcement bars shall conform to ASTM A615, Gr. 60.
- 12. Reinforcement bars designated (E) shall be epoxy coated. (Minimum thickness 7 mils).
- 13. Concrete reinforcement cover shall be 3 inches unless noted otherwise.
- 14. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of l_8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- 15. Concrete sealer shall be applied to the designated areas of the abutments and pier.
- 16. Minimum concrete strength shall be 5000 psi at 28 days.
- 17. Through girder structure shall be fully shop assembled (including deck plates, checkered walkway plates and steel grate walkway system) for checking accurate fit and then disassembled prior to shipping. Cost included with Furnishing and Erecting Structural Steel.
- 18. Form Liner Textured Surface shall be ashlar stone pattern with 1" maximum relief & ${}^{3}_{4}$ " minimum relief.

INDEX OF SHEETS

1	General Plan and Elevation
2	General Notes and Bill of Material
3	Footing Layout
4	Deck Plate Plan
5	Deck Plate Details
6	Deck Plate and Cover Plate Details
7	Framing Plan - Span 1
8	Framing Plan - Span 2
9	
	Through Girder Elevations 1
10	Through Girder Elevations 2
11	Through Girder Elevations 3
12	Typical Section and Details
13	End Floorbeam Details at Abutments
14	End Floorbeam Details at Pier
15	Lateral Bracing Details 1
16	Lateral Bracing Details 2
17	Knee Brace and Walkway Support Details
18	Checkered Walkway and Walkway Support Details 1
19	Checkered Walkway and Walkway Support Details 2
20	Exterior Walkway and Handrail Details
21	Handrail Elevations
22	Bearing Details 1
23	Bearing Details 2
24	Deck Drainage System
25	Drainage Details
26	South Abutment Plan and Elevation
27	South Abutment Reinforcing Details
28	5
	South Abutment East Wingwall Details
29	South Abutment West Wingwall Details
30	South Abutment Wingwall Footing Plans
31	North Abutment Plan and Elevation
32	North Abutment Reinforcing Details
33	North Abutment East Wingwall Details
34	North Abutment West Wingwall Details
35	North Abutment Wingwall Footing Plans
36	Pier Plan and Elevation
37	Pier Footing Plan and Bill of Material
38	Parapet Railing Details
39	HP Pile Details

- 39
- 40 Soil Boring Logs
- 41 Soil Boring Logs
- 42 Soil Boring Logs

43 Soil Boring Logs



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	FILE NAME = 0220226-60842-002-GNN.DGN	CHECKED - LAG	AG REVISED - STATE OF ILLINOIS		STRUCTURE NO. 022–0226	1321	32VB	DU PAGE 388 143
	PLOT SCALE = NONE	DRAWN - RMA	REVISED -	DEPARTMENT OF TRANSPORTATION	31NUCIUNE NU. 022-0220			CONTRACT NO. 60W01
HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - AMM	REVISED -		SHEET NO. 2 OF 43 SHEETS		ILLINOIS FED. 4	AID PROJECT

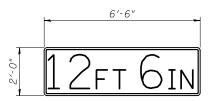
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TOTAL BILL OF MATERIAL

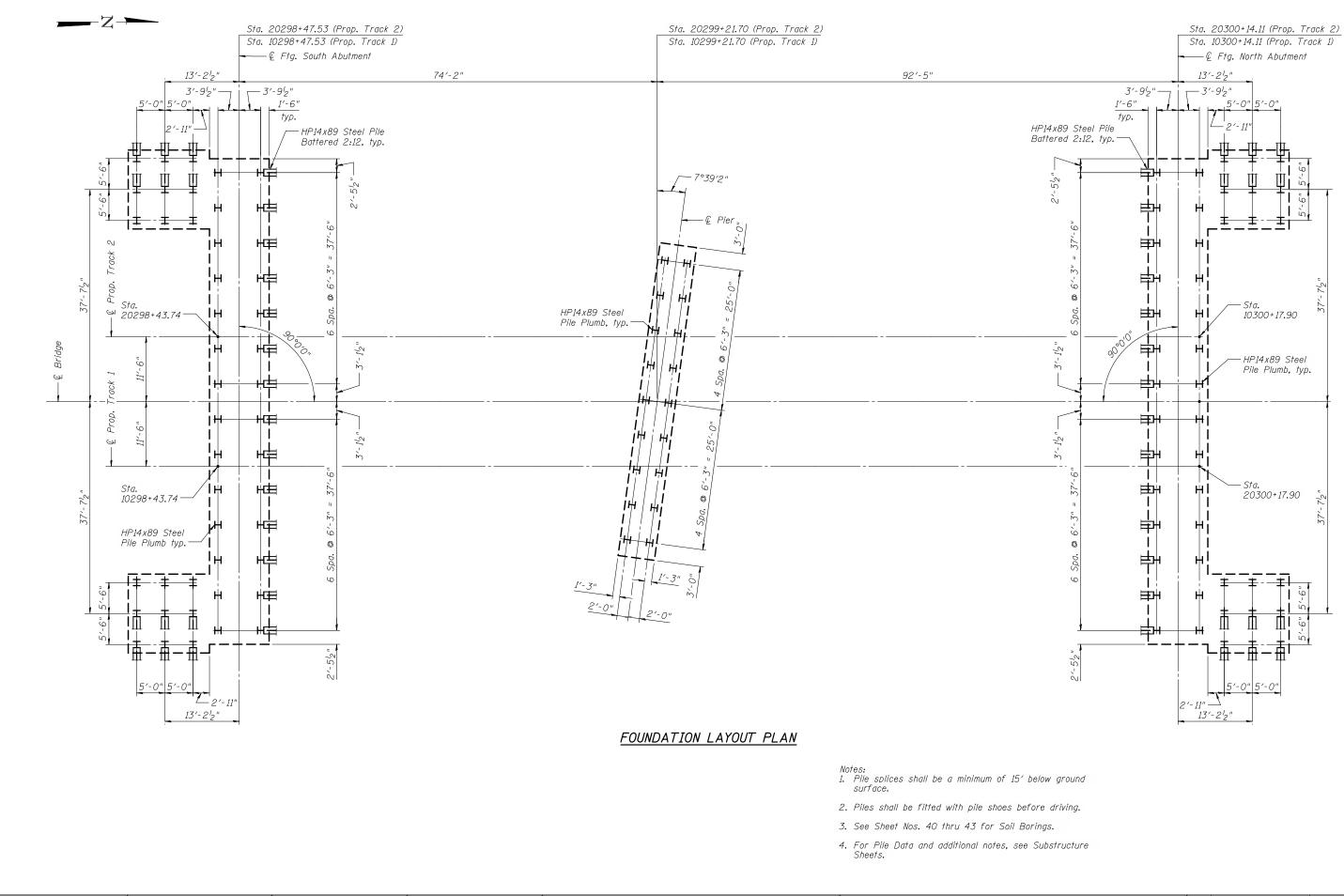
ITEM	UNIT	SUPER	SUB	TOTAL
Pourous Granular Embankment	Cu. Yd.	-	1,073.7	1,073.7
Stone Riprap, Class A4	Sq. Yd.	-	16	16
Filter Fabric	Sq. Yd.	-	16	16
Structure Excavation	Cu. Yd.	-	1,296	1,296
Form Liner Textured Surface	Sq. Ft.	-	3,600	3,600
Furnishing and Erecting Structural Steel	L. Sum	1	-	1
Reinforcement Bars, Epoxy Coated	Pound	-	138,760	138,760
Parapet Railing	Foot	-	122	122
Furnishing Steel Piles HP14X89	Foot	-	7,473	7,473
Driving Piles	Foot	-	7,473	7,473
Test Pile Steel HP14X89	Each	-	3	3
Pile Shoes	Each	-	110	110
Name Plates	Each	-	1	1
Anchor Bolts, 1 ¹ 2"	Each	60	-	60
Concrete Sealer	Sq. Ft.	-	6,174	6,174
Geocomposite Wall Drain	Sq. Yd.	-	391	391
Steel Grate Walkway	Sq. Yd.	145.2	-	145.2
Pipe Handrail, Special	Foot	341.0	-	341.0
Membrane Waterproofing (Special)	Sq. Ft.	5,648.0	-	5,648.0
Drainage System	L. Sum	1	-	1
Pipe Underdrains for Structures 4"	Foot	-	168	<i>168</i>
Concrete Structures CPR Special	Cu. Yd.	-	1,513.4	1,513.4

C.P.R.R. BUILT ΒY STATE OF ILLINOIS F.A.U. RT. 1321 SEC. 32VB STA. 10299+30.82 LOADING E90 STR. NO. 022-0226

> NAME PLATE See Std. 515001



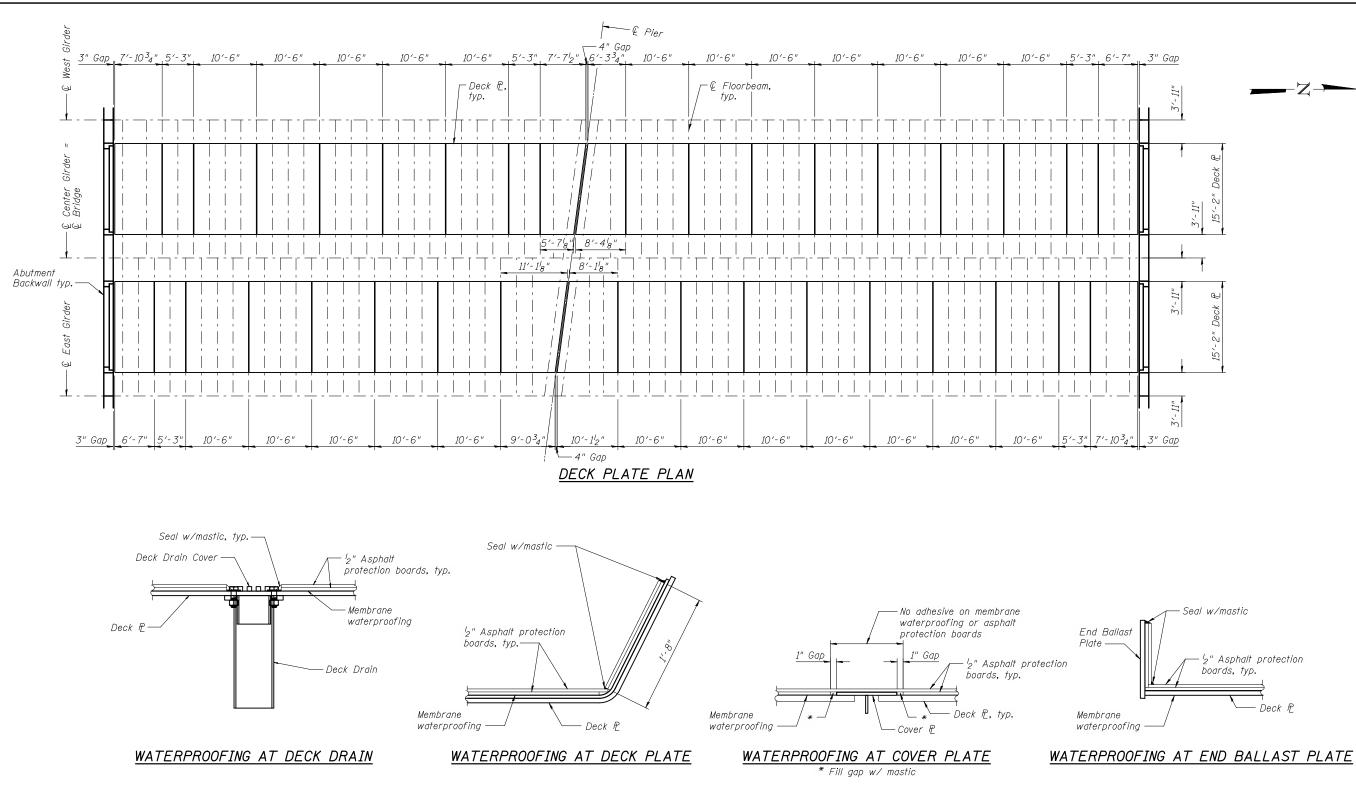
TEMPORARY CLEARANCE SIGN DETAIL



HTR USER NAME = Jmigus FILE NAME = 0220226-608 PLOT SCALE = NONE	DESIGNED - AMM /2-003-FTL.DGN CHECKED - LAG DRAWN - RMA	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FOOTING LAY Structure NO. 02
HDR ENGINEERING, INC. PLOT DATE = 11/2/2012	CHECKED - AMM	REVISED -		SHEET NO. 3 OF 43

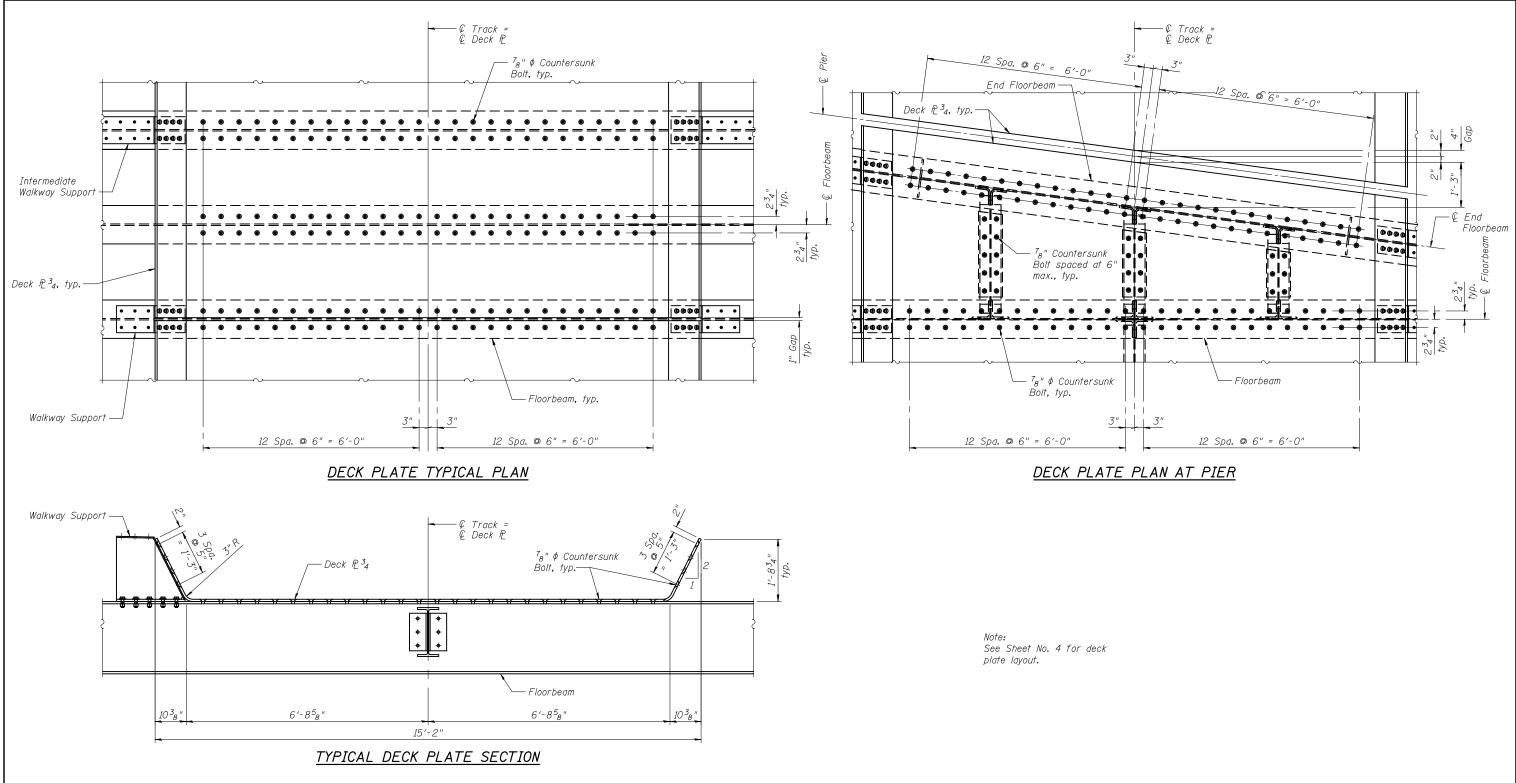
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FOOTING LAYOUT		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RUCTURE NO. 022–0226		32VB	DU PAGE	388	144
			CONTRACT	NO. 6	OW01
HEET NO. 3 OF 43 SHEETS		ILLINOIS FED. AI	D PROJECT		



	USER NAME = jmigus	DESIGNED - AMM	REVISED -		DECK PLATE PLAN	F.A.U.	SECTION	COUNTY TOTAL SHE
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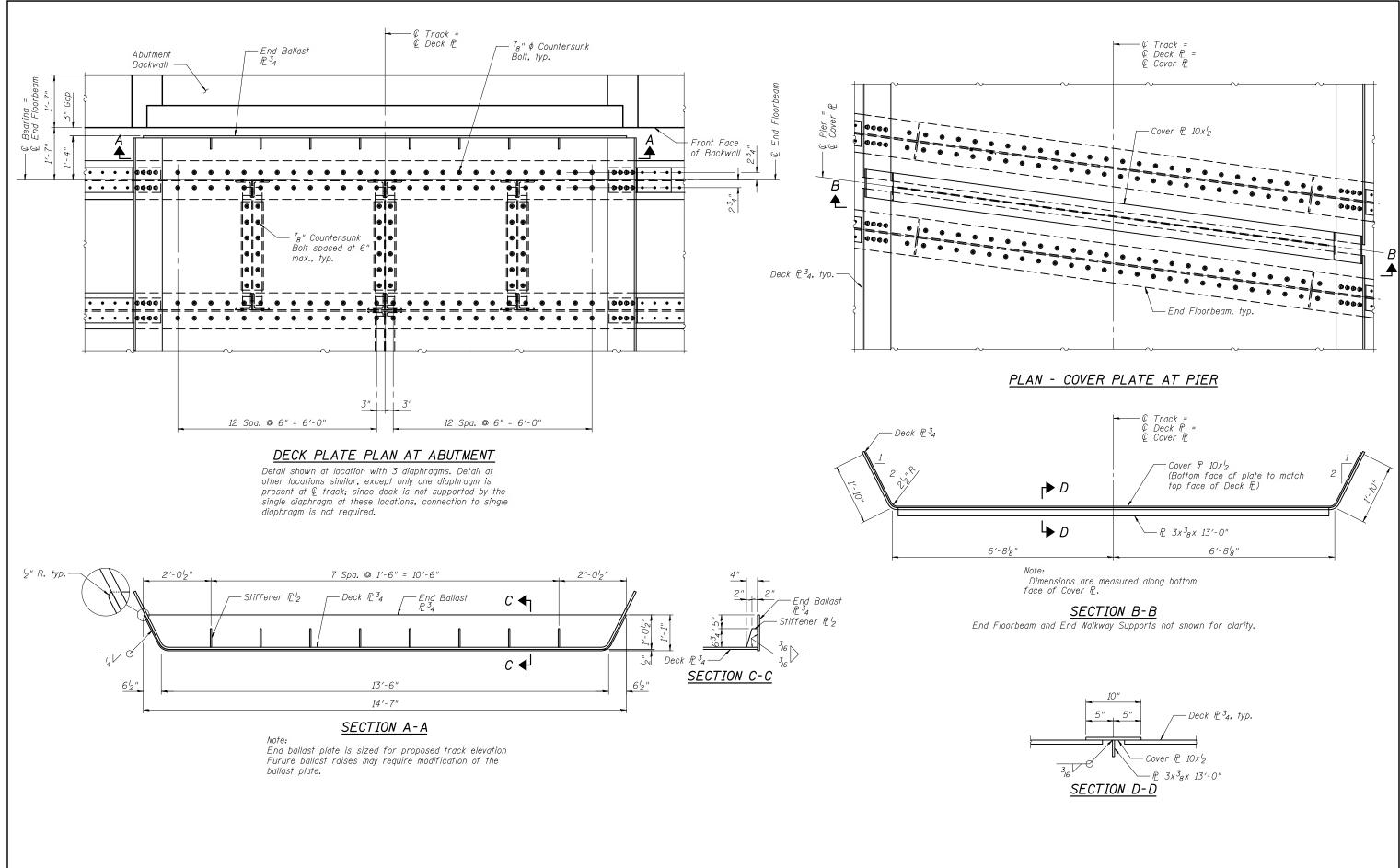
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				DECK PLATE DETAILS	RTE	SECTION	COUNTY SHEETS NO.
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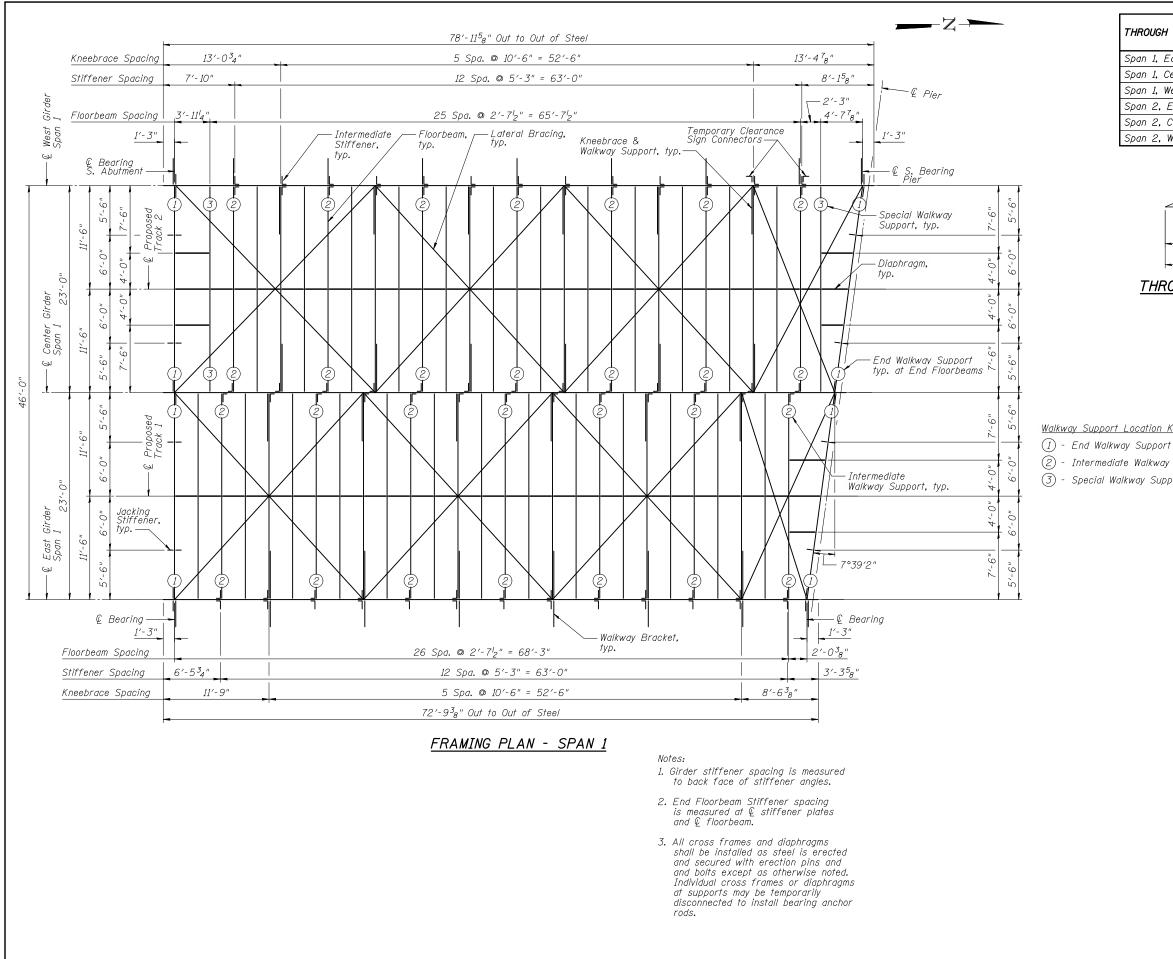
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	USER NAME = jmigus	DESIGNED - AMM	REVISED -		DECK PLATE AND COVER PLATE DETAILS	F.A.U. S	COUNTY TOTAL SHEET
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HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - AMM	REVISED -		SHEET NO. 6 OF 43 SHEETS		ILLINOIS FED. AID PROJECT

11/2/2012



	USER NAME = jmigus	DESIGNED - AMM	REVISED -		FRAMING PLAN -
	FILE NAME = 0220226-60842-007-FRP.DGN	CHECKED - LAG	REVISED -	STATE OF ILLINOIS	
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HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - AMM	REVISED -		SHEET NO. 7 OF 43

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THROUGH GIRDER		CAMBER							
THROUGH GINDEN	L	L/4	X1	X2	XЗ				
Span 1, East Girder	70′-3 ³ 8″	17'-6 ⁷ 8" (-)	8"	3 ₁₆ "	/ " 8				
Span 1, Center Girder	73′-4 ¹ 2″	18′-4′ ₈ ″	³ /6 "	[/] 4 "	³ /6 "				
Span 1, West Girder	76′-5 ⁵ 8″	19′-1 ³ 8″ (+)	3 ₁₆ "	[/] 4 "	3 ₁₆ "				
Span 2, East Girder	94′-8 ⁵ 8″	23'-8 ¹ 8" (+)	⁵ 16 "	⁷ I6 "	⁵ 16 "				
Span 2, Center Girder	91′-7′ ₂ ″	22′-10 ⁷ 8″	/_ " 4	38"	/ " 4				
Span 2, West Girder	88′-6 ³ 8″	22'-1 ⁵ 8" (-)	/_ " 4	3 ₈ "	[/] 4 "				

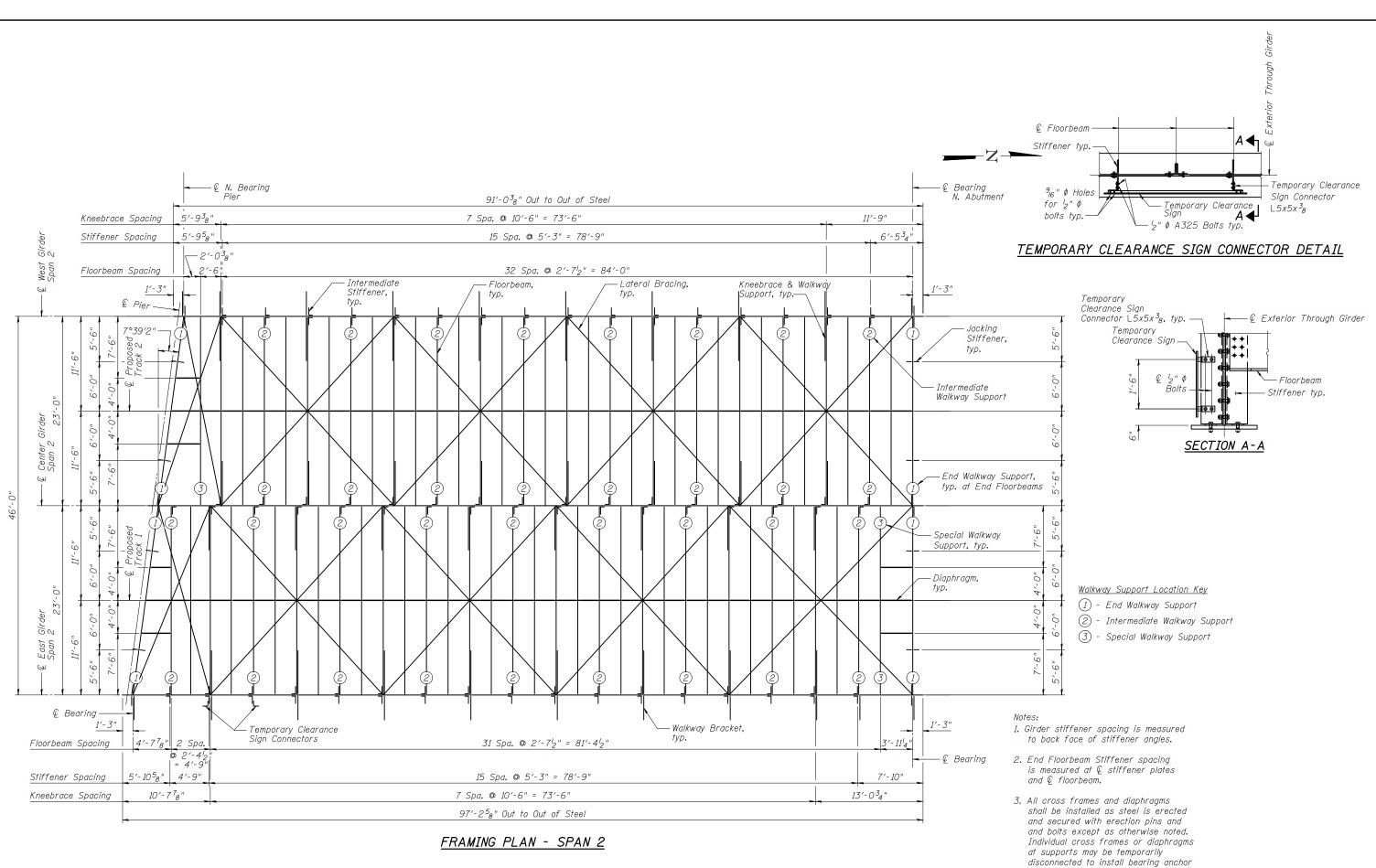
IX	2X X 2	X3	
L/4	L/4	L/4	L/4
_	L = Q to	€ Bearing	

THROUGH GIRDER PARABOLIC CAMBER DIAGRAM

Camber shown for information only. Camber shown does not exceed $\frac{3}{4}$ " tolerance per IDOT Standard Specification Article 505.04.

Walkway Support Location Key (2) - Intermediate Walkway Support (3) - Special Walkway Support

i PLAN – SPAN 1		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
JRE NO. 022–0226	1321	32VB	DU PAGE	388	148
JRE NU. U22-U220			CONTRACT	NO. 6	OW01
0. 7 OF 43 SHEETS		ILLINOIS FED. A	D PROJECT		

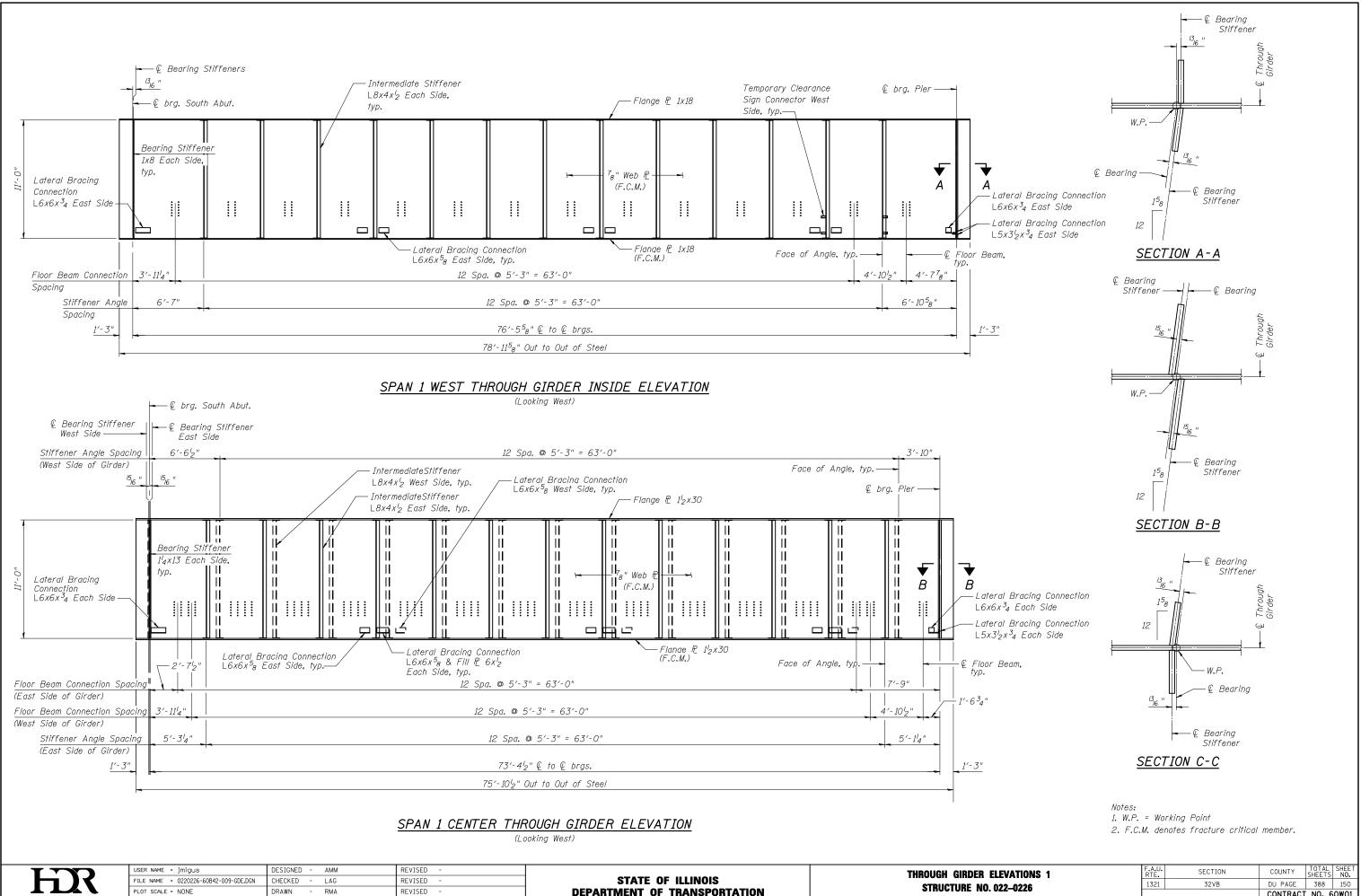


DESIGNED - AMM REVISED JSER NAME = jmigus FRAMING PLAN STATE OF ILLINOIS FILE NAME = 0220226-60842-008-FRP.DGN CHECKED -LAG REVISED STRUCTURE NO. LOT SCALE = NONE RAWN RMA REVISED **DEPARTMENT OF TRANSPORTATION** HDR ENGINEERING. INC. SHEET NO. 8 OF 4 PLOT DATE = 11/2/2012 CHECKED -AMM REVISED

11/2/2012 11:22:27 AM

– SPAN 2	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
. 022–0226	1321	32VB	DU PAGE	388	149	
. UZZ–UZZB	CONTRACT NO. 60W0					
43 SHEETS	ILLINOIS FED. AID PROJECT					

rods.



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HDR ENGINEERING. INC.

PLOT DATE = 11/2/2012

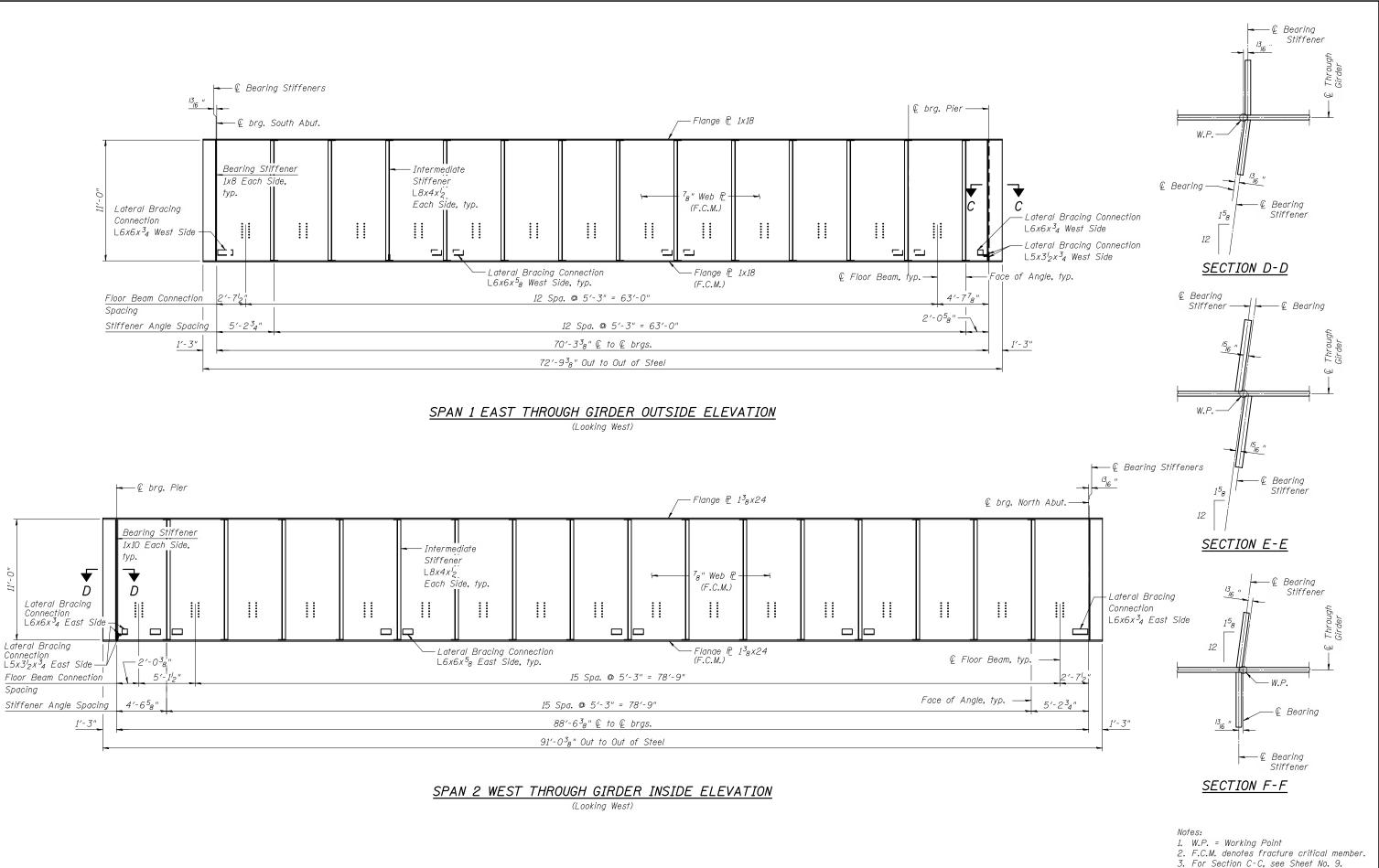
CHECKED -

AMM

REVISED

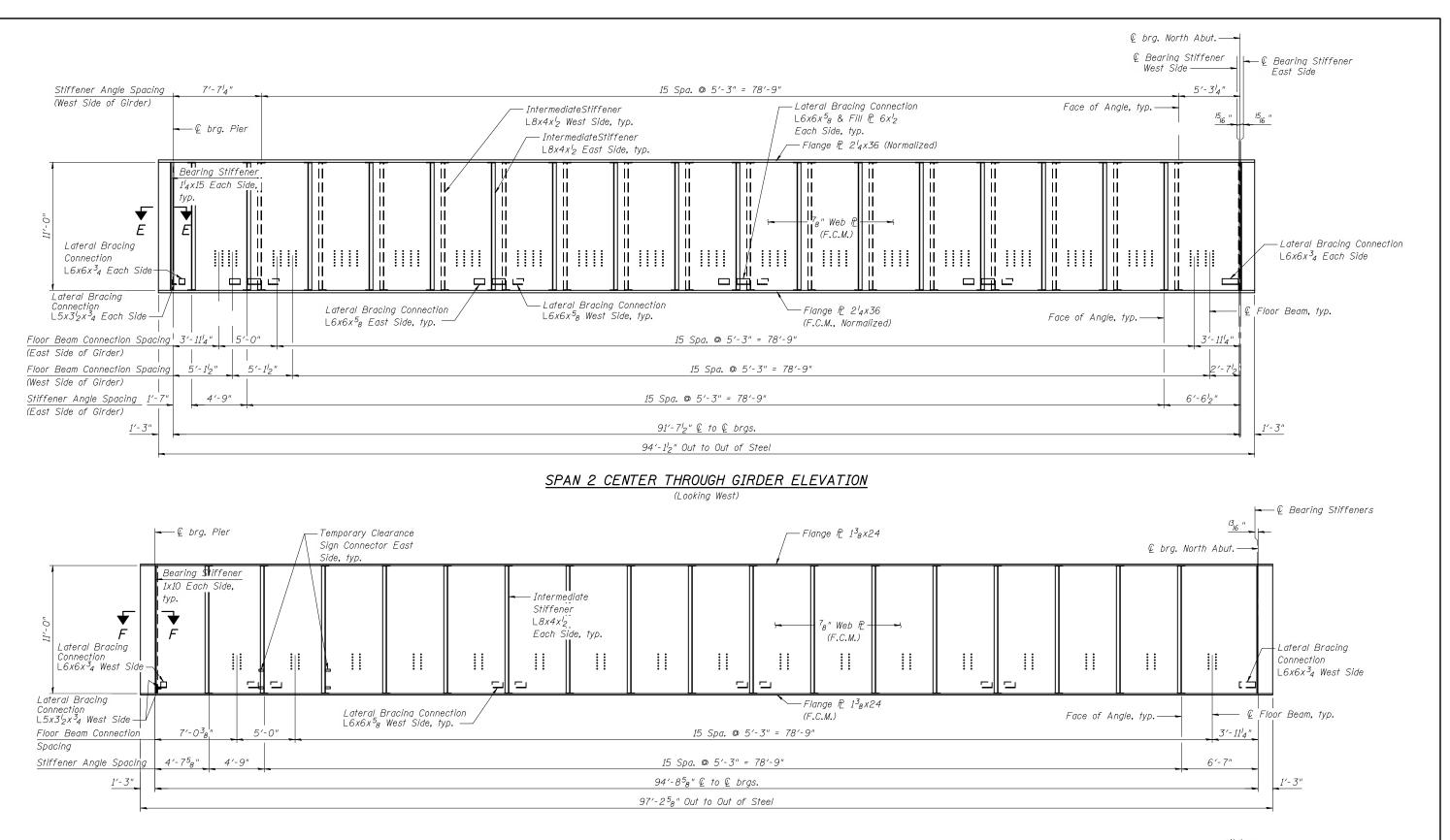
STRUCTURE NO. **DEPARTMENT OF TRANSPORTATION** SHEET NO. 9 OF 4

ELEVATIONS 1		F.A.U. SECTION		TOTAL SHEETS	SHEET NO.	
. 022–0226	1321	32VB	DU PAGE	388	150	
. 022-0220			CONTRACT	Γ NO. 6	0W01	
43 SHEETS	ILLINOIS FED. AID PROJECT					



	USER NAME = jmigus	DESIGNED - AMM	REVISED -		THROUGH GIRDER ELEVATIONS 2	F.A.U. RTE. SECTION	COUNTY TOTAL SHEET SHEETS NO.
	FILE NAME = 0220226-60B42-010-GDE.DGN	CHECKED - LAG	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 022–0226	1321 32VB	DU PAGE 388 151
PLOT SCALE = NONE	PLUT SCALE = NUNE	DRAWN - RMA	REVISED -	DEPARTMENT OF TRANSPORTATION	31N0010AL NO. 022-0220	·	CONTRACT NO. 60W01
HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - AMM	REVISED -		SHEET NO. 10 OF 43 SHEETS	ILLINOIS	FED. AID PROJECT

3.	For	Section	C-C.	see	Sheet	No.
	1 01	00011011	0 0,	000	011001	//01



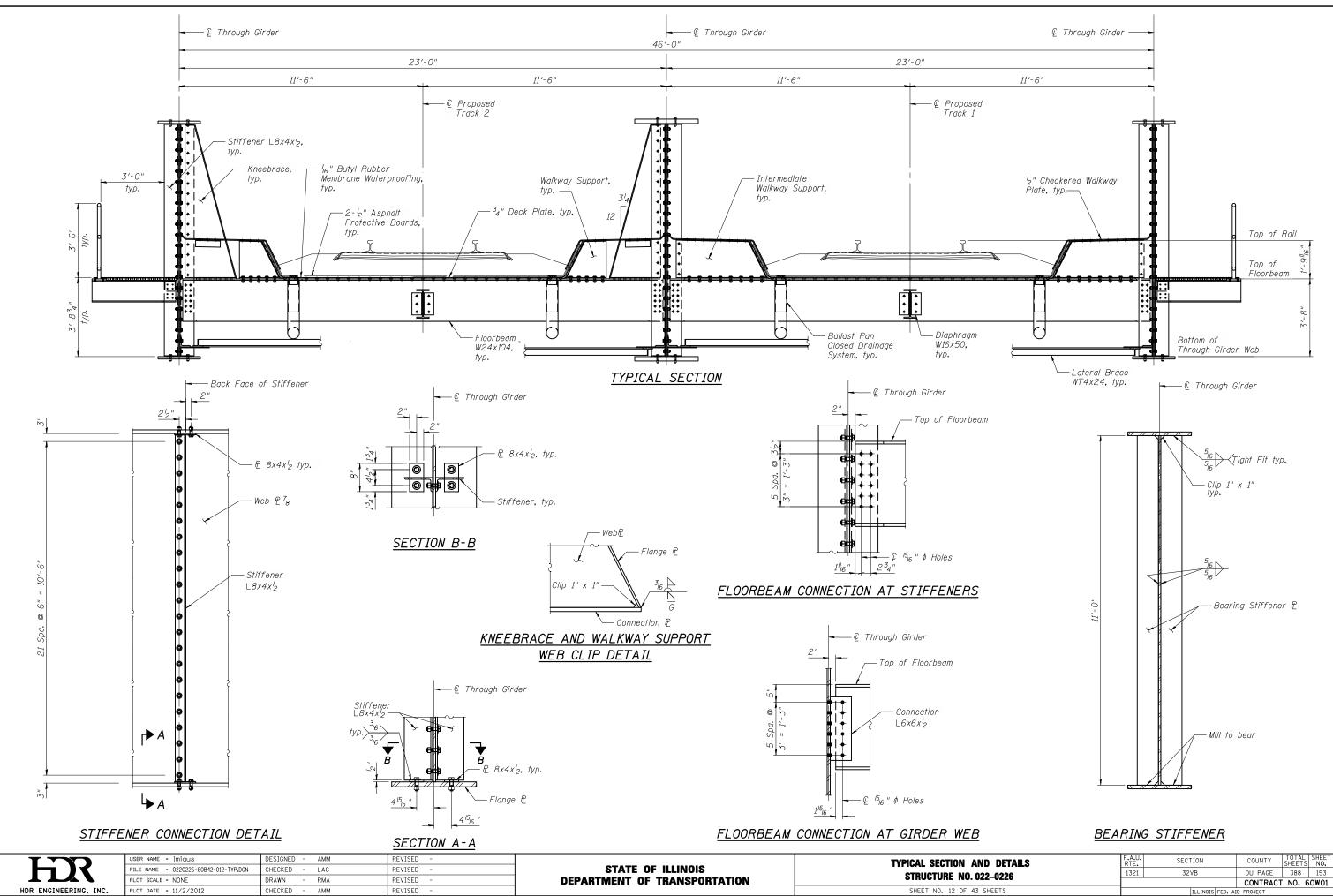
SPAN 2 EAST THROUGH GIRDER OUTSIDE ELEVATION

(Looking West)

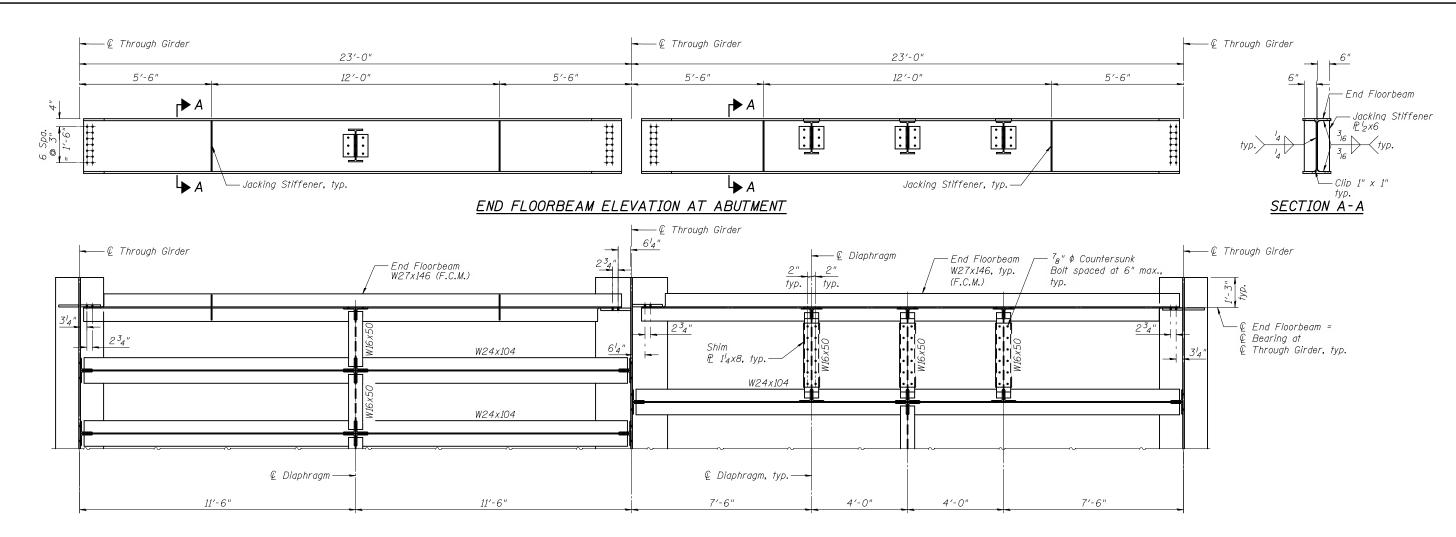
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	FILE NAME = 0220226-60B42-011-GDE.DGN	CHECKED - LAG	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 022–0226	1321	32VB	DU PAGE 388 152
HDR ENGINEERING. INC.	PLOT SCALE = NONE	DRAWN - RMA CHECKED - AMM	REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. 11 OF 43 SHEETS			CONTRACT NO. 60W01
IDA LAGINEERING, INC.	1001 0010 - 11/2/2012	AMM AMM	REVISED -		SHEET NO. 11 OF 45 SHEETS		JILLINOIS FED.	AID PROJECT

11/2/2012

Notes: 1. For Sections E-E and F-F, see Sheet No. 10. 2. F.C.M. denotes fracture critical member.



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PARTIAL PLAN AT ABUTMENT

Note:

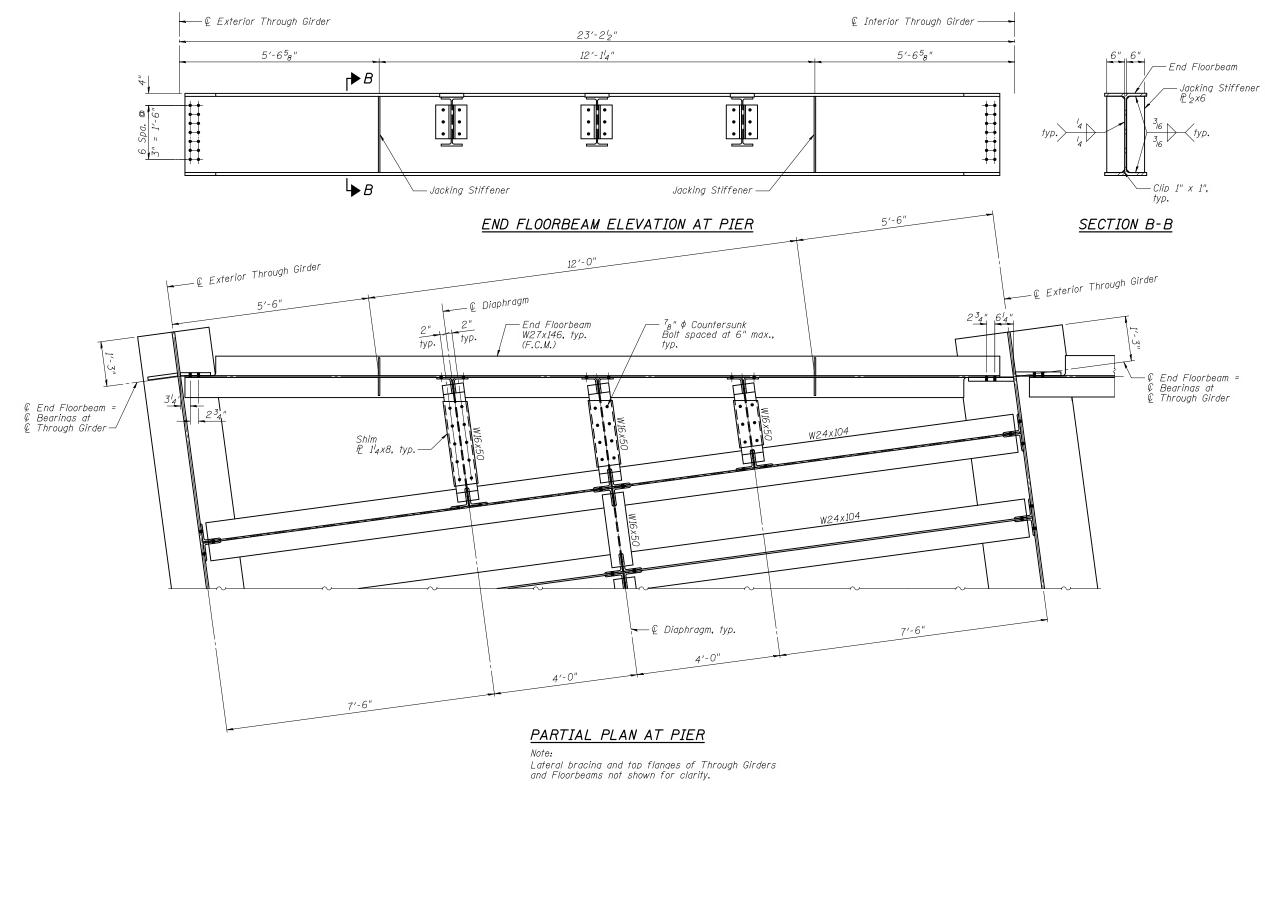
Lateral bracing and top flanges of Through Girders and Floorbeams not shown for clarity.

			I	NOMENT	TABLE				
			Spo	1 n	Spa	in 2			
			Center	Exterior	Center	Exterior	Floorbeam	*Floorbeam	End Floorbear
Discription			Thru Girder	Thru Girder	Thru Girder	Thru Girder	W24x104	W24x104	W27x146
Moment of Inertia, Gross	I G	(in4)	568,724	326,910	897,708	461,233	3,100	3,100	5,660
Moment of Inertia, Net	ΙN	(in4)	507,422	283,745	811,733	407,994	2,885	2,885	5303
Section Modulus, Gross	SG	(in3)	8,426	4,879	13,153	6,846	258	258	414
Section Modulus, Net	SN	(in3)	7,517	4,235	11,894	6,056	228	228	370
Dead Load	DL	(lb/ft)	5,771	3,177	6,053	3,294	543	543	930
Dead Load Moment	M DL	(k-f†)	3,882	2,321	6,352	3,694	42	42	65
Live Load Moment	M LL	(k-f†)	8,515	4,583	12,673	6,723	273	273	458
Impact Moment	M I	(k-f†)	2,617	1,373	3,421	1,786	121	121	275
Moment at kneebrace		(k-f†)	-	-	-	-	-	45	-
Jacking Load		(kip)	-	-	-	-	-	-	164
Jacking Load Moment		(k-f†)	-	-	-	-	-	-	843
Total Moment	MTOTAL	(k-f†)	15,010	8,277	22,445	12,203	436	481	798
Flexural Stress	fs TOTAL	L (ksi)	23.96	23,45	22.65	24.18	22,95	25.32	25.88

			REACTIC	N TABLE	-			Jacking Load
		Spc	1 I	Spa	n 2			Governs
		Center	Exterior	Center	Exterior	Floorbeam	*Floorbeam	End Floorbeam
Discription		Thru Girder	Thru Girder	Thru Girder	Thru Girder	W24x104	W24x104	W27x146
Dead Load	(kip)	219	125	285	160	6	6	-
Live Load	(kip)	530	275	640	329	32	32	-
Impact	(kip)	163	82	173	88	14	14	-
Kneebrace	(kip)	-	-	-	-	-	-	-
Jacking Load	(kip)	-	-	-	-	-	-	164
Total	(kip)	912	482	1098	577	52	56	164

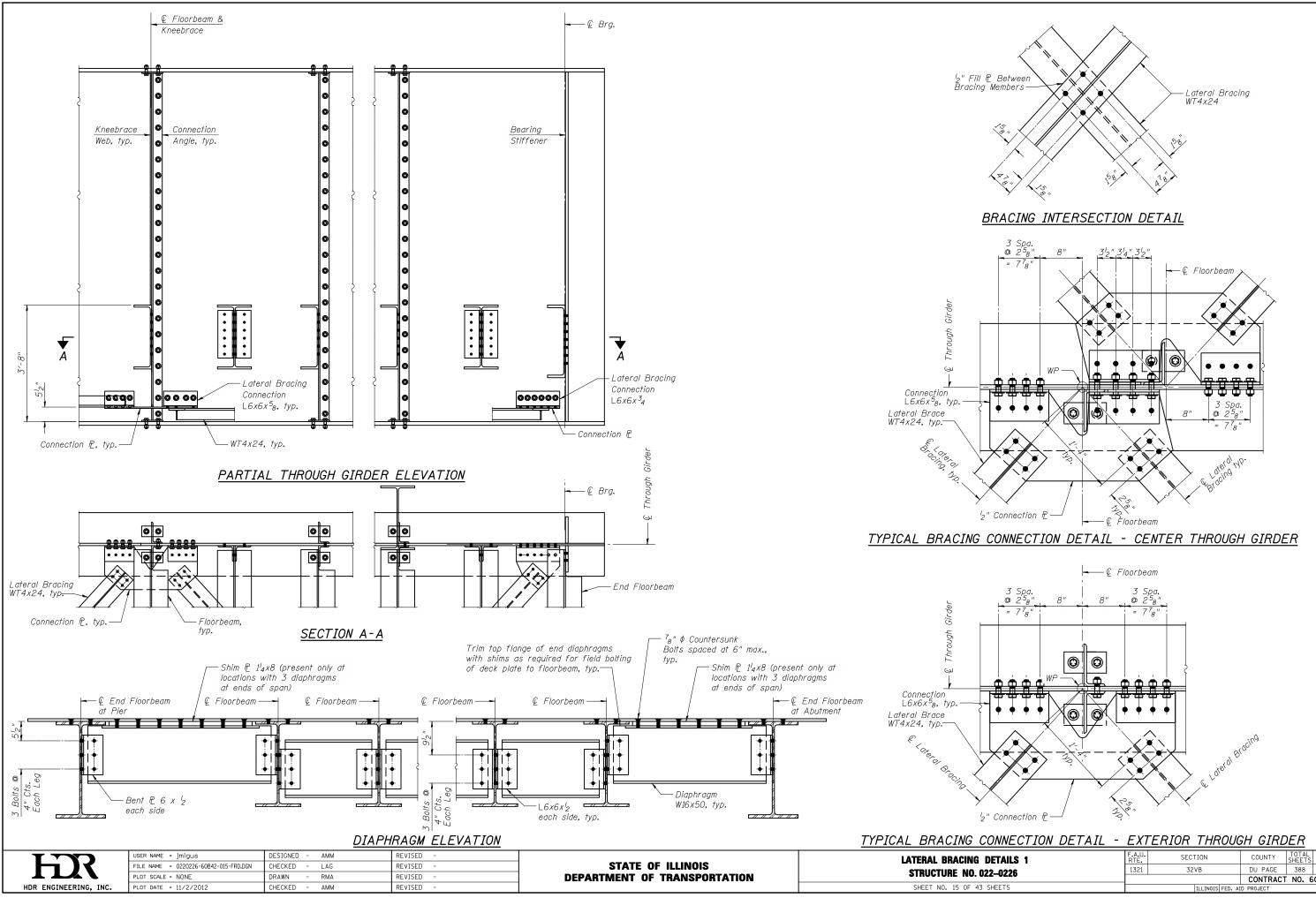
	USER NAME = jmigus	DESIGNED - AMM	REVISED -		END FLOORBEAM DETAILS AT ABUTMENTS	F.A.U. RTF.	SECTION	COUNTY TOTAL SHEET
	FILE NAME = 0220226-60B42-013-FRD.DGN	CHECKED - LAG	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 022–0226	1321	32VB	DU PAGE 388 154
	PLOT SCALE = NONE	DRAWN - RMA	REVISED -	DEPARTMENT OF TRANSPORTATION	31NUCIUNE NU. 022-0220	_		CONTRACT NO. 60W01
HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - AMM	REVISED -		SHEET NO. 13 OF 43 SHEETS		ILLINOIS FE	ED. AID PROJECT

||/2/20|2 ||:23:|| AM * At knee brace location.

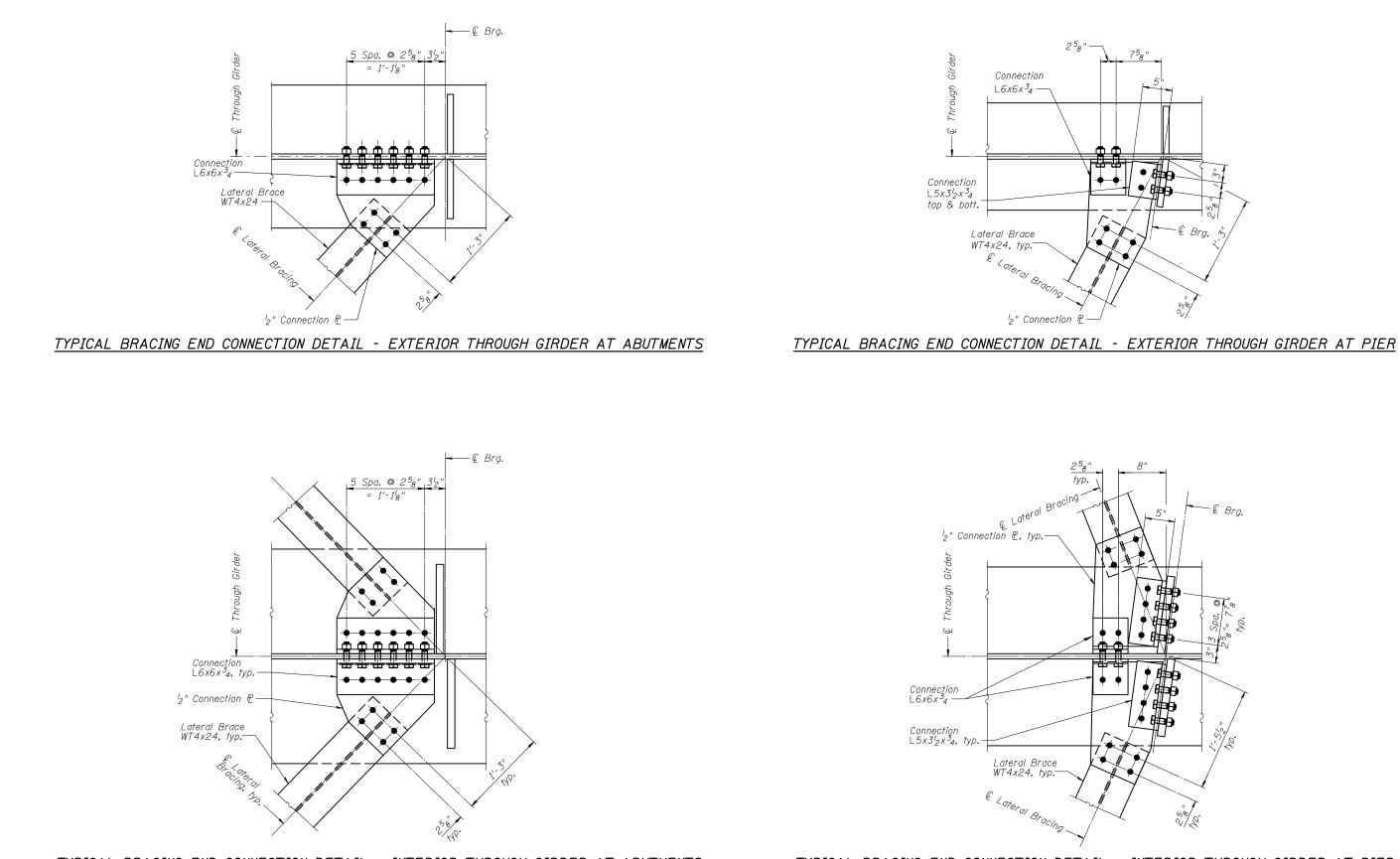


11/2/2012 11:23:18 AM

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	FILE NAME = 0220226-60B42-014-FRD.DGN	CHECKED - LAG	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 022–0226	1321	32VB	DU PAGE 388 155
	PLOT SCALE = NONE	DRAWN - RMA	REVISED -	DEPARTMENT OF TRANSPORTATION	31NUCIUNE NU. 022-0220			CONTRACT NO. 60W01
HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - AMM	REVISED -		SHEET NO. 14 OF 43 SHEETS		ILLINOIS FED.	AID PROJECT



CONNECTION DETAIL -	EX7	ERIOR THROU	IGH GIRL	D <u>ER</u>	
G DETAILS 1	F.A.U. RTE.	SECTION	COUNTY	TOTAL S SHEETS	SHEET NO.
022-0226	1321	32VB	DU PAGE	388	156
			CONTRACT	F NO. 60	W01
43 SHEETS		ILLINOIS FED.	AID PROJECT		



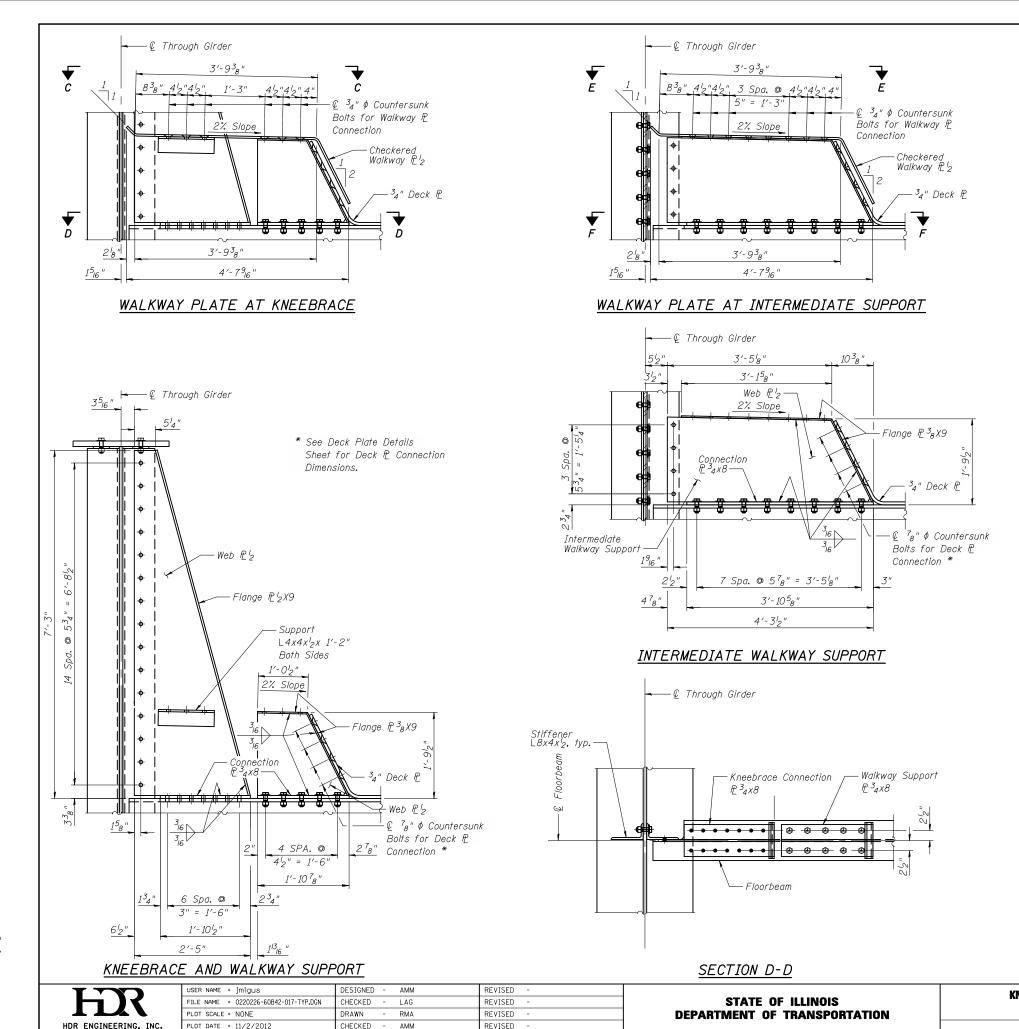
TYPICAL BRACING END CONNECTION DETAIL - INTERIOR THROUGH GIRDER AT ABUTMENTS



FILE NAME = 0220226-60842-016-S0CLDGN CHECKED - LAG REVISED - STATE OF ILLINOIS	SHEETS NO
	DU PAGE 388 157
PLOT SCALE = NONE DRAWN - RMA REVISED - DEPARTMENT OF TRANSPORTATION SINCETORE NO. 022-0220	CONTRACT NO. 60W01
HDR ENGINEERING, INC. PLOT DATE = 11/2/2012 CHECKED - AMM REVISED -	NOIS FED. AID PROJECT

II/2/2012 II:23:31 AM

TYPICAL BRACING END CONNECTION DETAIL - INTERIOR THROUGH GIRDER AT PIER

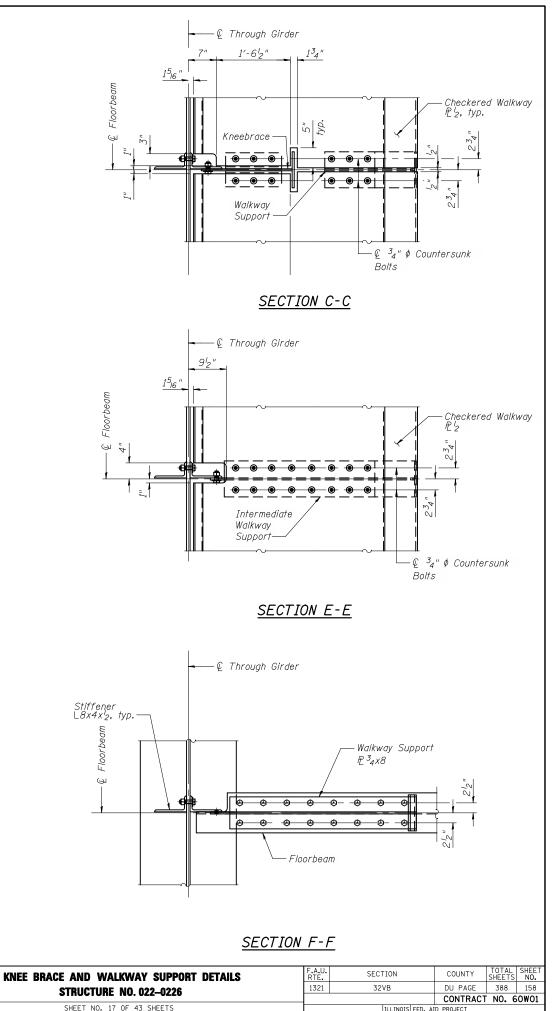


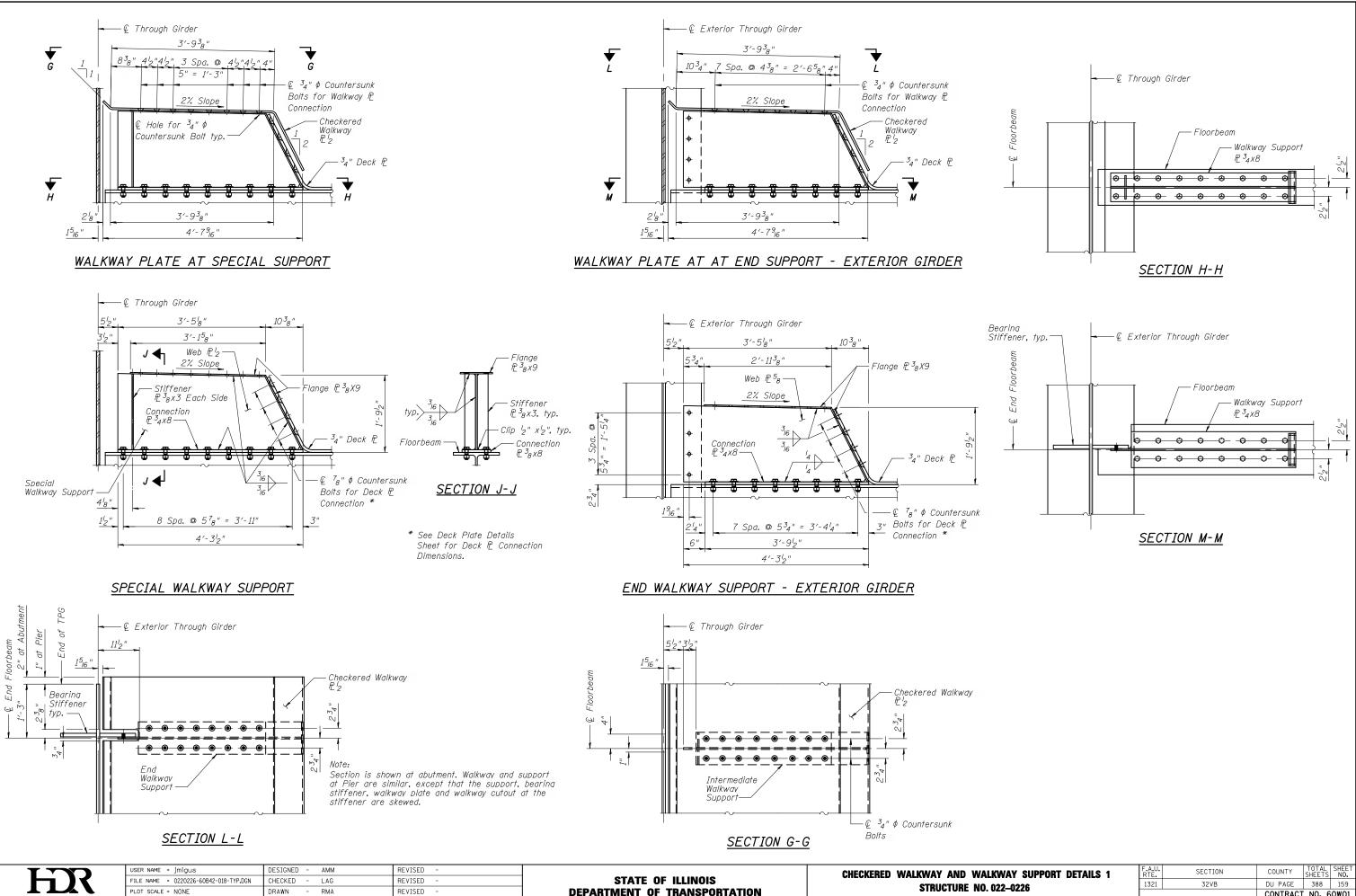
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SHEET NO. 17 OF 43 SHEETS

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64





HDR ENGINEERING. INC.

PLOT DATE = 11/2/2012

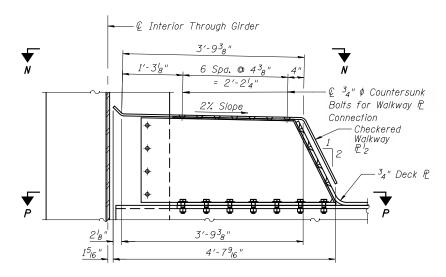
CHECKED -

AMM

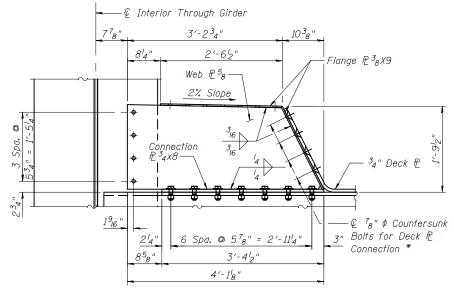
REVISED

LKWAY SUPPORT DETAILS 1		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
. 022–0226	1321	32VB	DU PAGE	388	159
. 022–0220			CONTRACT	NO. 6	OW01
43 SHEETS		ILLINOIS FED. AI	D PROJECT		

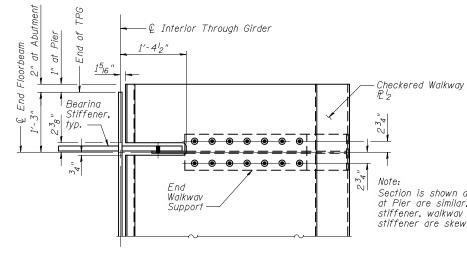
SHEET NO. 18 OF



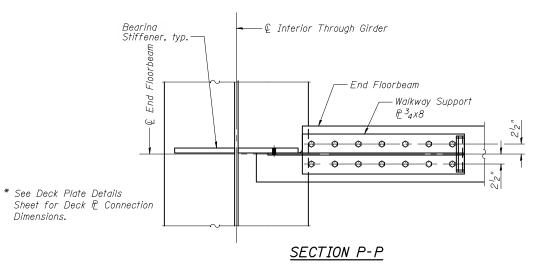
WALKWAY PLATE AT END SUPPORT - INTERIOR GIRDER



END WALKWAY SUPPORT - INTERIOR GIRDER

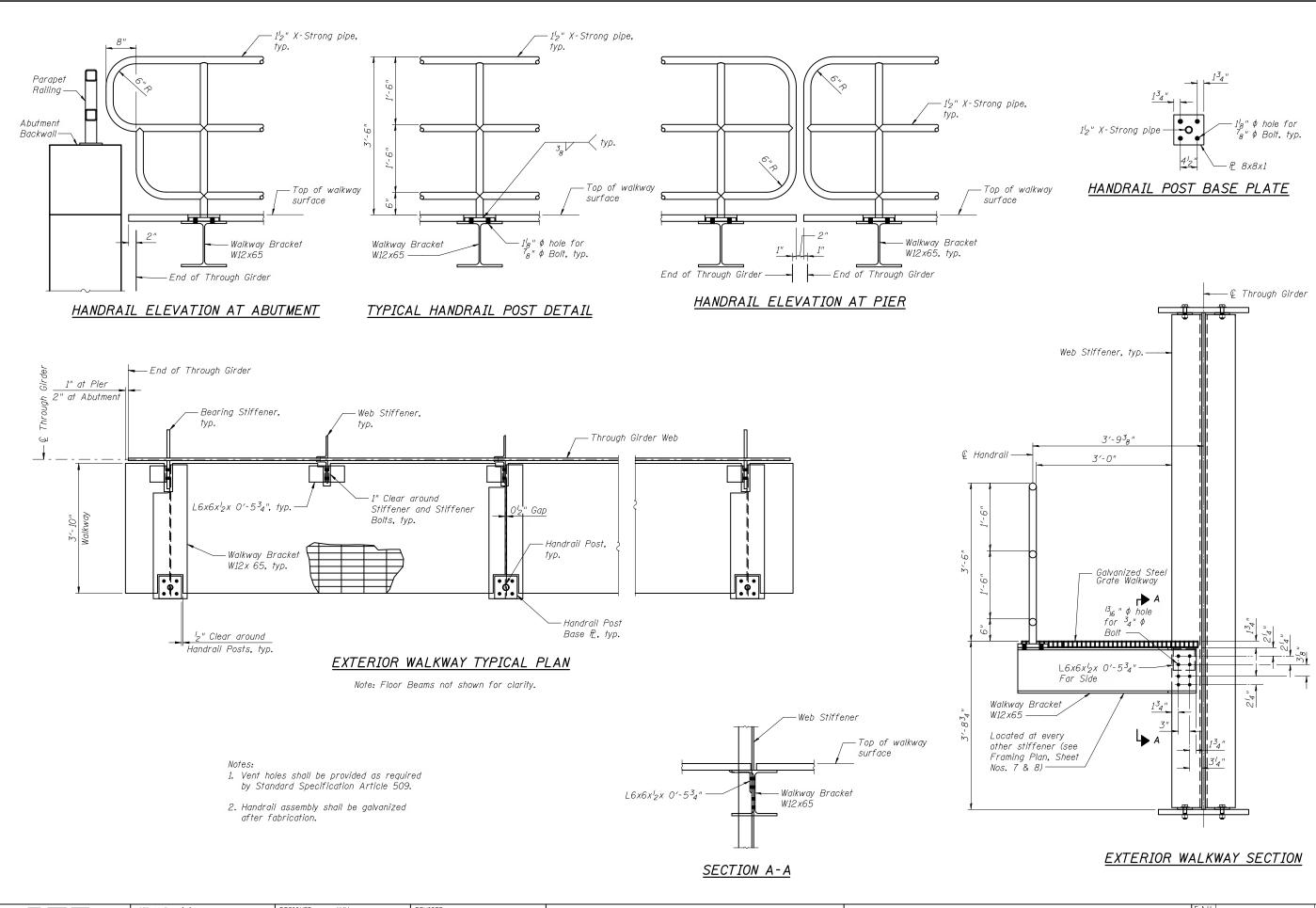


SECTION N-N



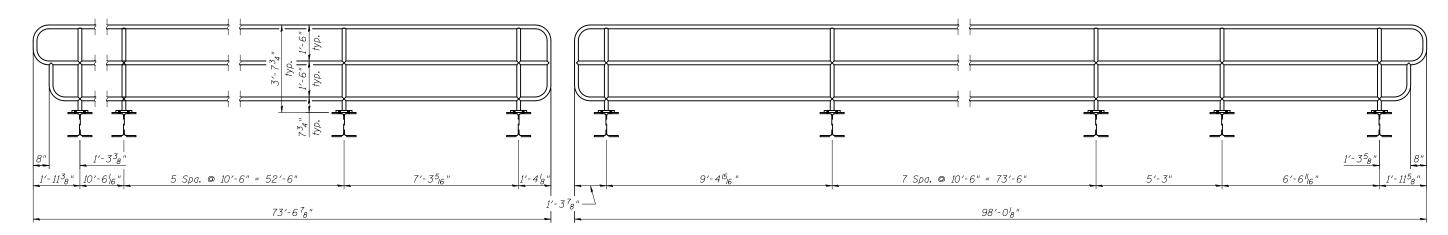
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	FILE NAME = 0220226-60B42-019-TYP.DGN	CHECKED - LAG	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 022–0226	1321	32VB	DU PAGE 388 160
	PLOT SCALE = NONE	DRAWN - RMA	REVISED -	DEPARTMENT OF TRANSPORTATION	31NUCTURE NU. 022-0220			CONTRACT NO. 60W01
HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - AMM	REVISED -		SHEET NO. 19 OF 43 SHEETS		ILLINOIS FED. A	AID PROJECT

Section is shown at abutment. Walkway and support at Pier are similar, except that the support, bearing stiffener, walkway plate and walkway cutout at the stiffener are skewed.



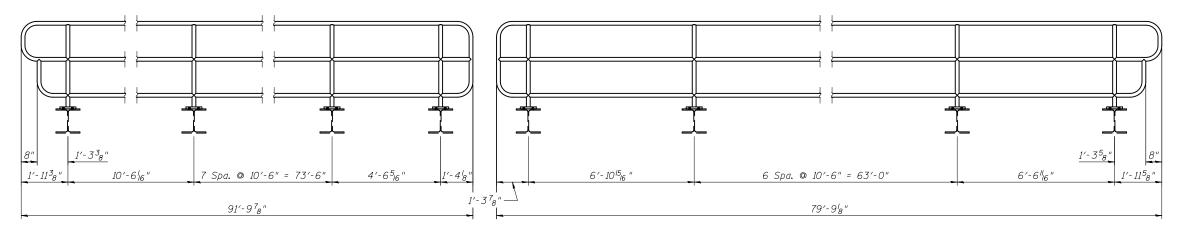
11/2/2012 11:24:15 AM

STATE OF ILLINOIS	EXTERIOR WALKWAY AND HANDRAIL DETAILS			
	STRUCTURE NO. 022–0226	1321	32VB	DU PAGE 388 161
DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 60W01
	DEFARIMENT OF TRANSPORTATION	DEFARIMENT OF TRANSFORTATION SHEET NO. 20 OF 43 SHEETS		



HANDRAIL ELEVATION - SPAN 1 EAST SIDE



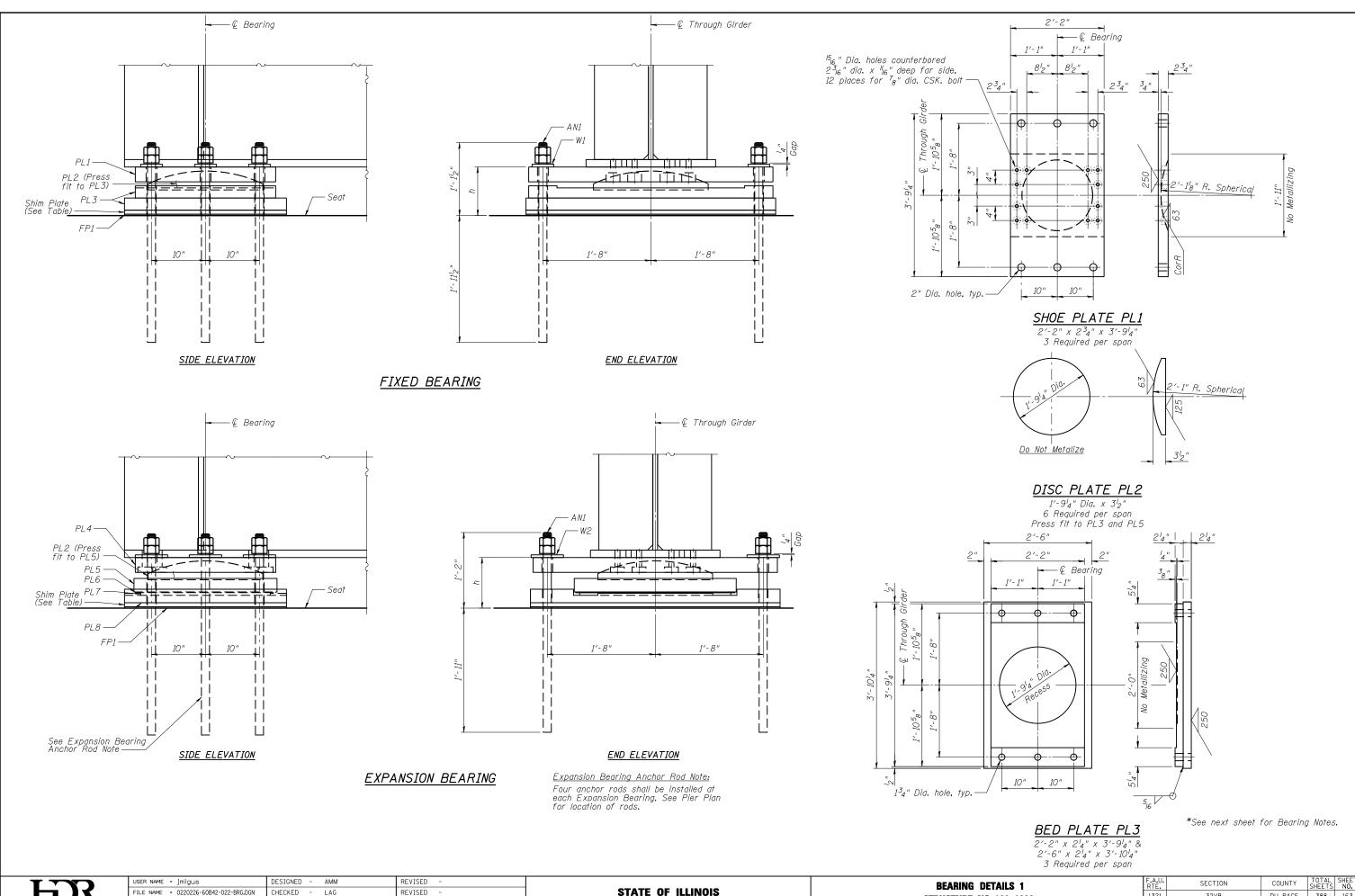


HANDRAIL ELEVATION - SPAN 2 WEST SIDE

HANDRAIL ELEVATION - SPAN 1 WEST SIDE

	USER NAME = jmigus	DESIGNED - AMM	REVISED -		HANDRAIL ELEVATIONS	F.A.U. SECTION	COUNTY TOTAL SHEET
	FILE NAME = 0220226-60842-021-HDT.DGN	CHECKED - LAG	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 022-0226	1321 32VB	DU PAGE 388 162
	PLOT SCALE = NONE	DRAWN - RMA	REVISED -	DEPARTMENT OF TRANSPORTATION	31NUGIUNE NU. 022-0220		CONTRACT NO. 60W01
HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - AMM	REVISED -		SHEET NO. 21 OF 43 SHEETS	ILLINOIS FED. 4	AID PROJECT

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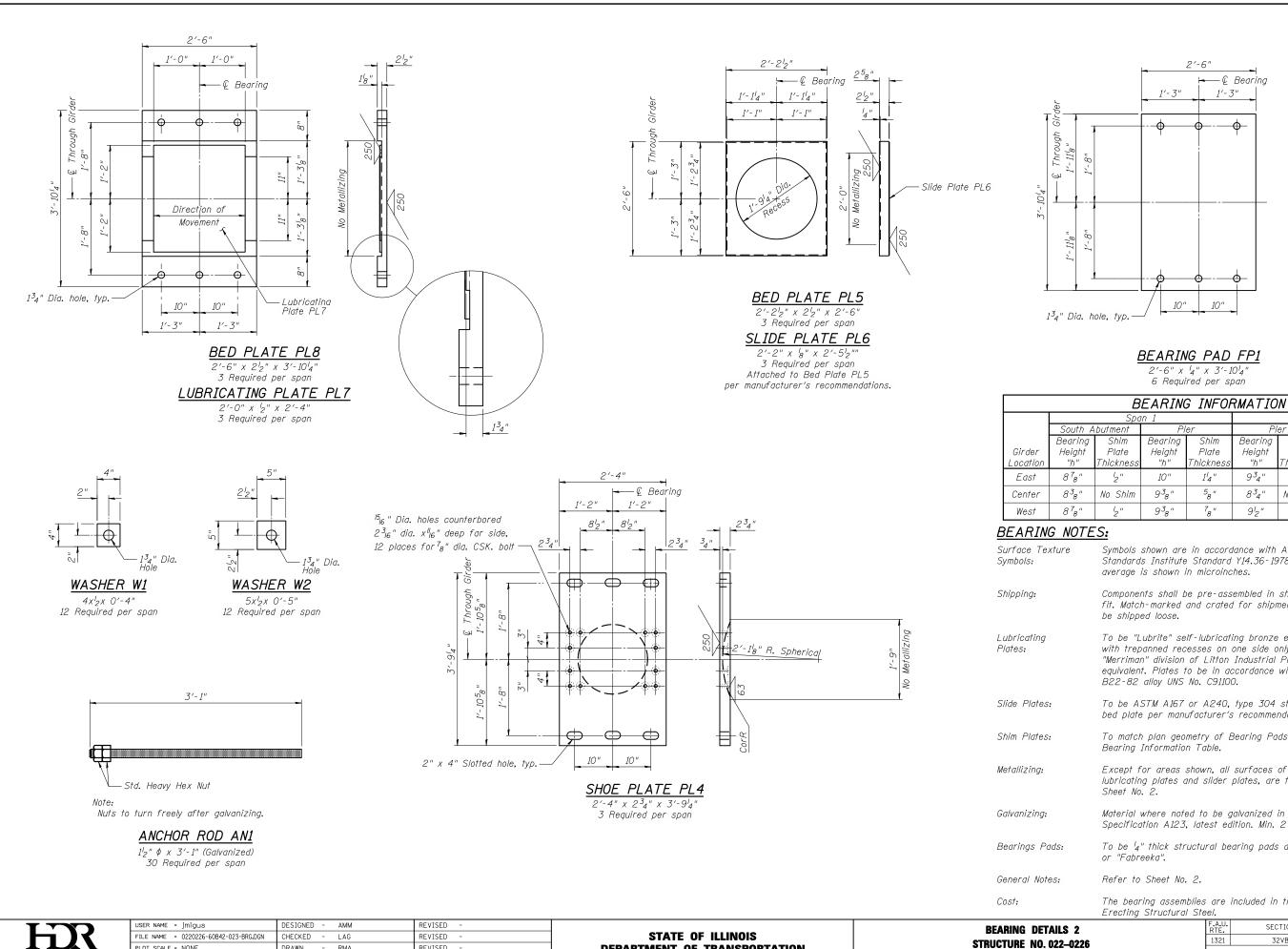
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 HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - AMM	REVISED -		SHEET NO. 22 OF 43 SH

||/2/20|2 ||:24:3| AM

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 NO.

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 388
 163

 F 43 SHEETS
 ILLINOIS FED. AID PROJECT
 STREETS
 NO.
 60W01



H

HR	USER NAME = Jmlgus FILE NAME = 0220226-60B42-023-BRG.DGN PLOT SCALE = NONE	DESIGNED - AMM CHECKED - LAG DRAWN - RMA	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEARING STRUCTURE
HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - AMM	REVISED -		SHEET NO. 23

To be ${}^{l}_{4}$ " thick structural bearing pads as manufactured by "Sorbtex"

		Spc	in 1		Span 2					
	South A	butment	Pi	er	Pi	er	North Abutmen			
	Bearing	Shim	Bearing	Shim	Bearing	Shim	Bearing	Shim		
	Height	Plate	Height	Plate	Height	Plate	Height	Plate		
1	"h"	Thickness	"h"	Thickness	"h"	Thickness	"h"	Thickness		
	87 ₈ "	1 ₂ "	10 "	14"	9 ³ 4"	1"	9′4″	⁷ 8″		
	8³8"	No Shim	9³8″	5 ₈ "	8 ³ 4"	No Shim	83 ₈ "	No Shim		
	87 ₈ "	1/2 "	9³8"	⁷ 8″	9½"	³ 4″	9′ <u>4</u> ″	⁷ 8″		

Symbols shown are in accordance with American National Standards Institute Standard Y14.36-1978 and the roughness

Components shall be pre-assembled in shop to ensure proper fit. Match-marked and crated for shipment. Countersunk bolts to

To be "Lubrite" self-lubricating bronze expansion bearing plates with trepanned recesses on one side only as manufactured by "Merriman" division of Litton Industrial Products or approved equivalent. Plates to be in accordance with ASTM Specification

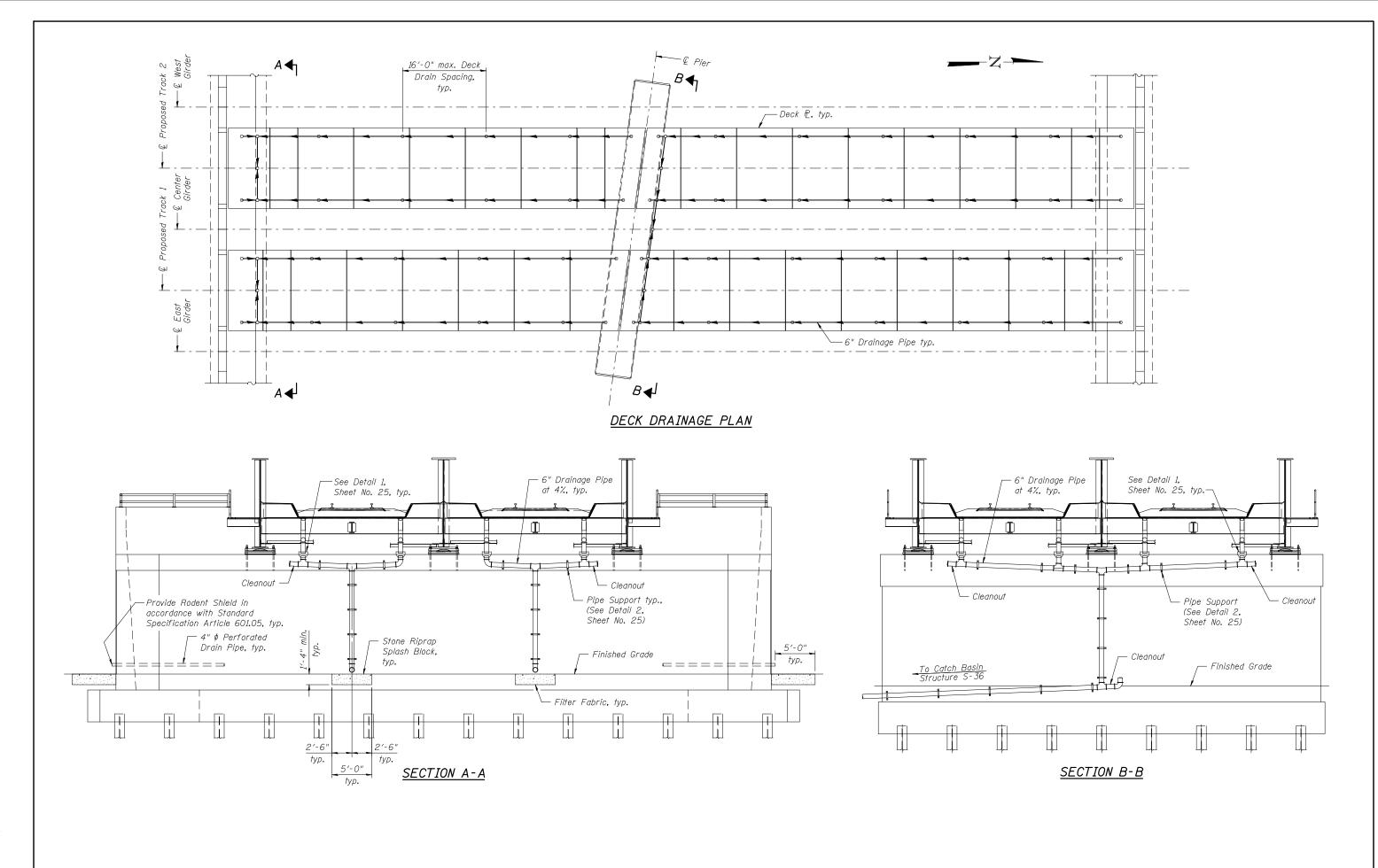
- To be ASTM A167 or A240, type 304 stainless steel. Attach to bed plate per manufacturer's recommendations.
- To match plan geometry of Bearing Pads FP1. Thickness per

Except for areas shown, all surfaces of all bearing plates, except lubricating plates and slider plates, are to be metallized. See note on

Material where noted to be galvanized in accordance with the ASTM Specification A123. latest edition. Min. 2 ozs./sa.ft.

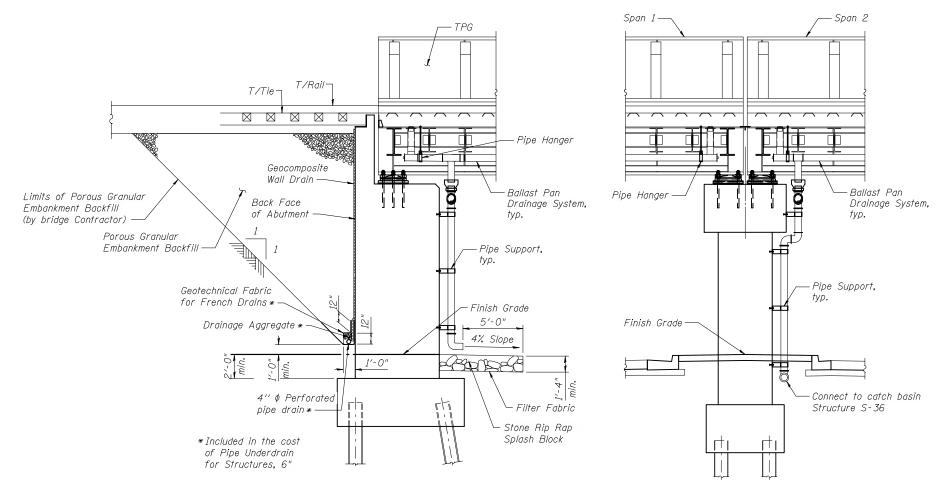
The bearing assemblies are included in the cost of Furnishing and

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	32VB	DU PAGE	388	164
		CONTRACT	NO. 6	0W01
	ILLINOIS FED. A	D PROJECT		
	RTE.	RTE. SECTION 1321 32VB	RTE. SECTION COUNTY 1321 32VB DU PAGE	RTÉ. SECTION COUNTY SHEETS 1321 32VB DU PAGE 388 CONTRACT NO. 6



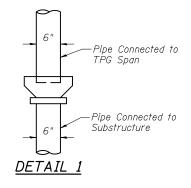
	USER NAME = jmigus	DESIGNED - AMM	REVISED -		DECK DRAINAGE SYSTEM	F.A.U. RTF.	SECTION	COUNTY	TOTAL	SHEET NO.
	FILE NAME = 0220226-60B42-024-DDS.DGN	CHECKED - LAG	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 022–0226	1321	32VB	DU PAGE	388	165
HDR ENGINEERING, INC.	PLOT SCALE = NONE PLOT DATE = 11/2/2012	DRAWN - RMA CHECKED - AMM	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SIRUCIONE NO. 022-0220 SHEET NO. 24 OF 43 SHEETS		ILLINOIS FED.	CONTRACT	NO. 6	<u>0W01</u>

11/2/2012 11:25:02 AM



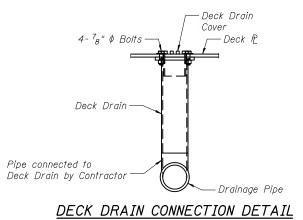
DRAINAGE AT SOUTH ABUTMENT

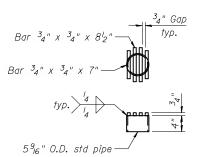
DRAINAGE AT PIER



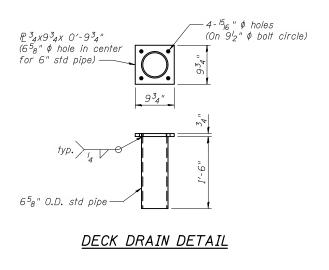
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HDR ENGINEERING, INC.	PLOT SCALE = NONE PLOT DATE = 11/2/2012	DRAWN - CHECKED -	AMM	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. 25 OF 43 SHEETS		ILLINOIS F	CONTRACT NO. 60W01

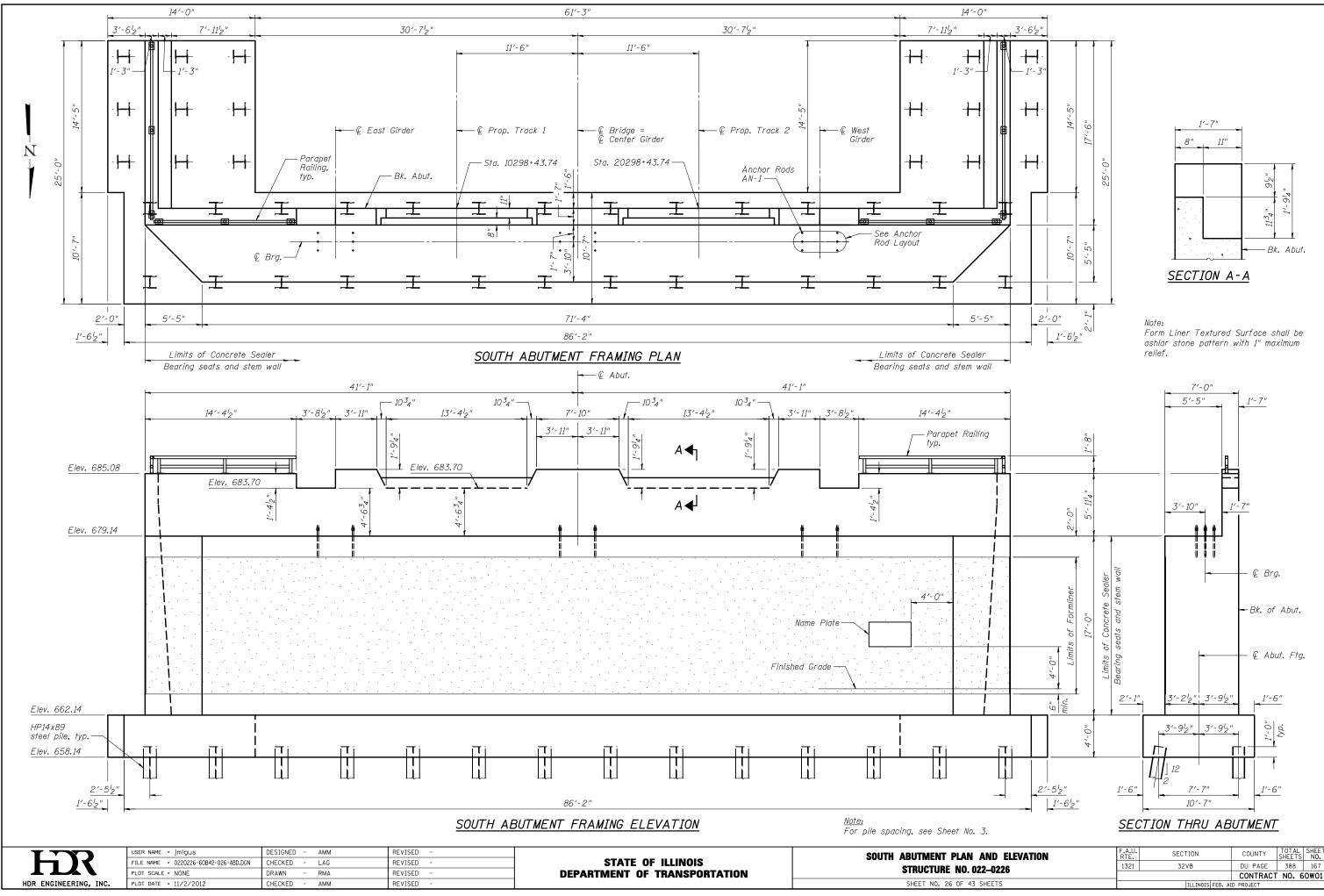
11/2/2012 11:25:10 AM

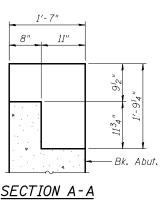


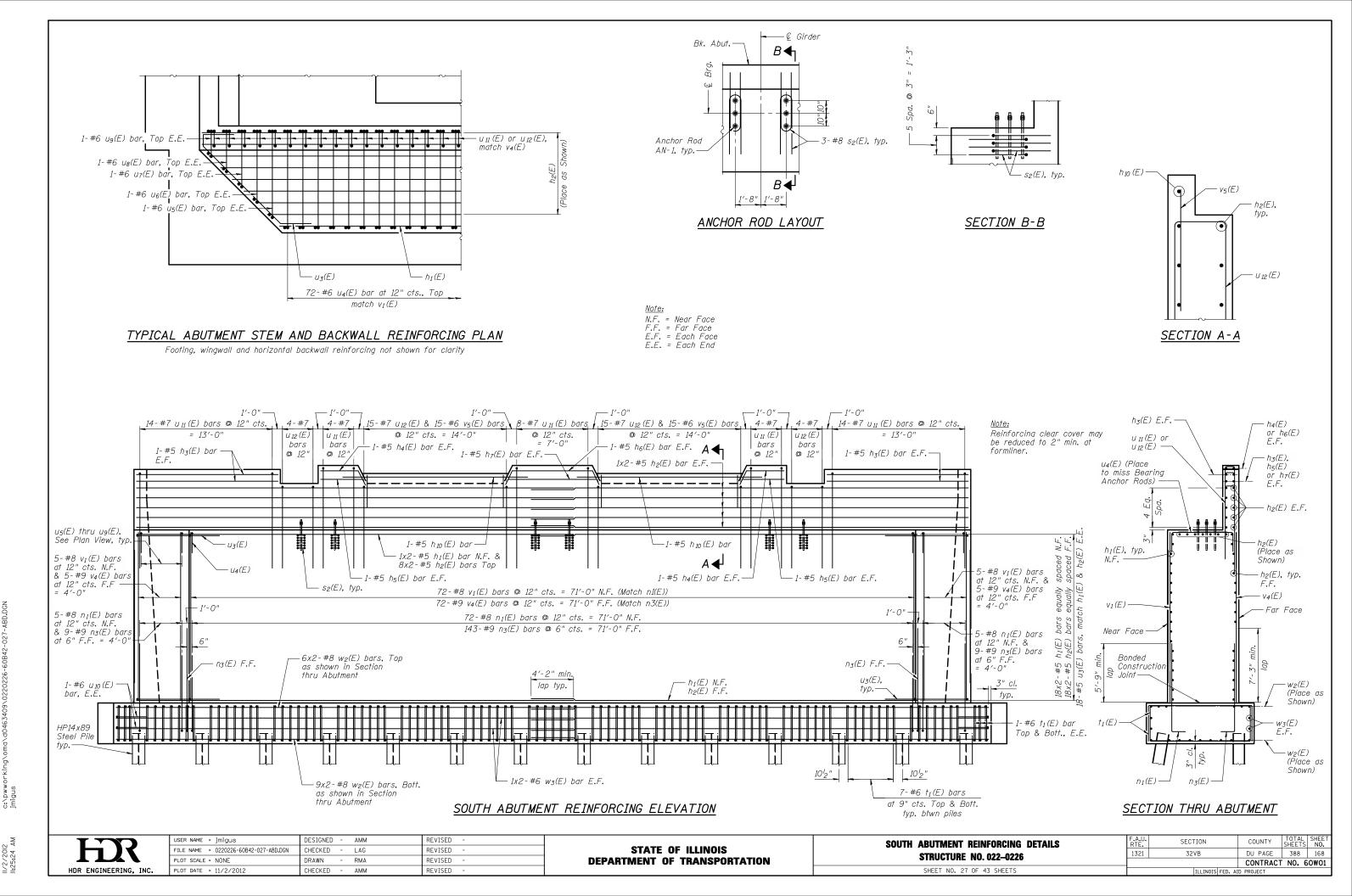


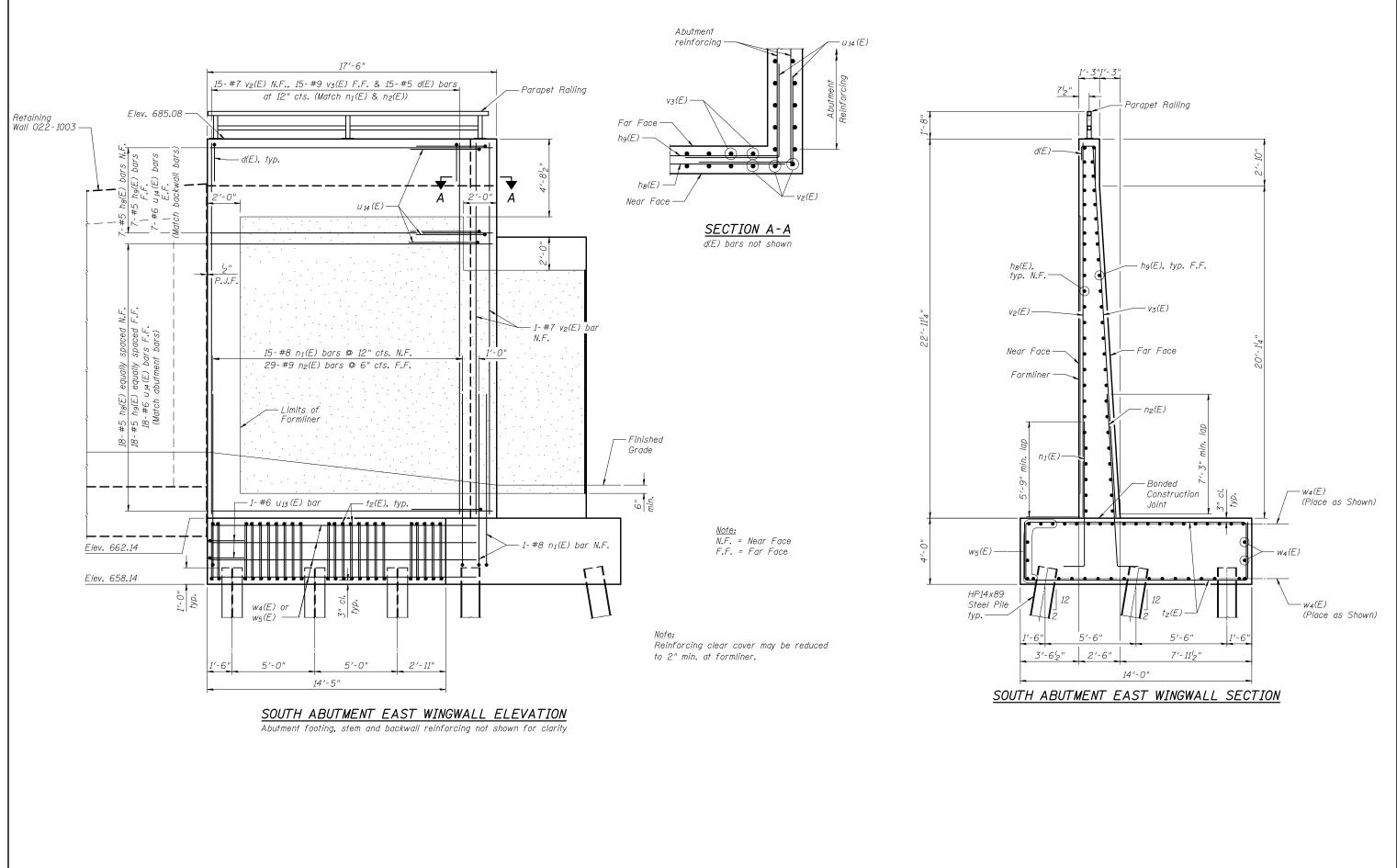
DECK DRAIN COVER DETAIL





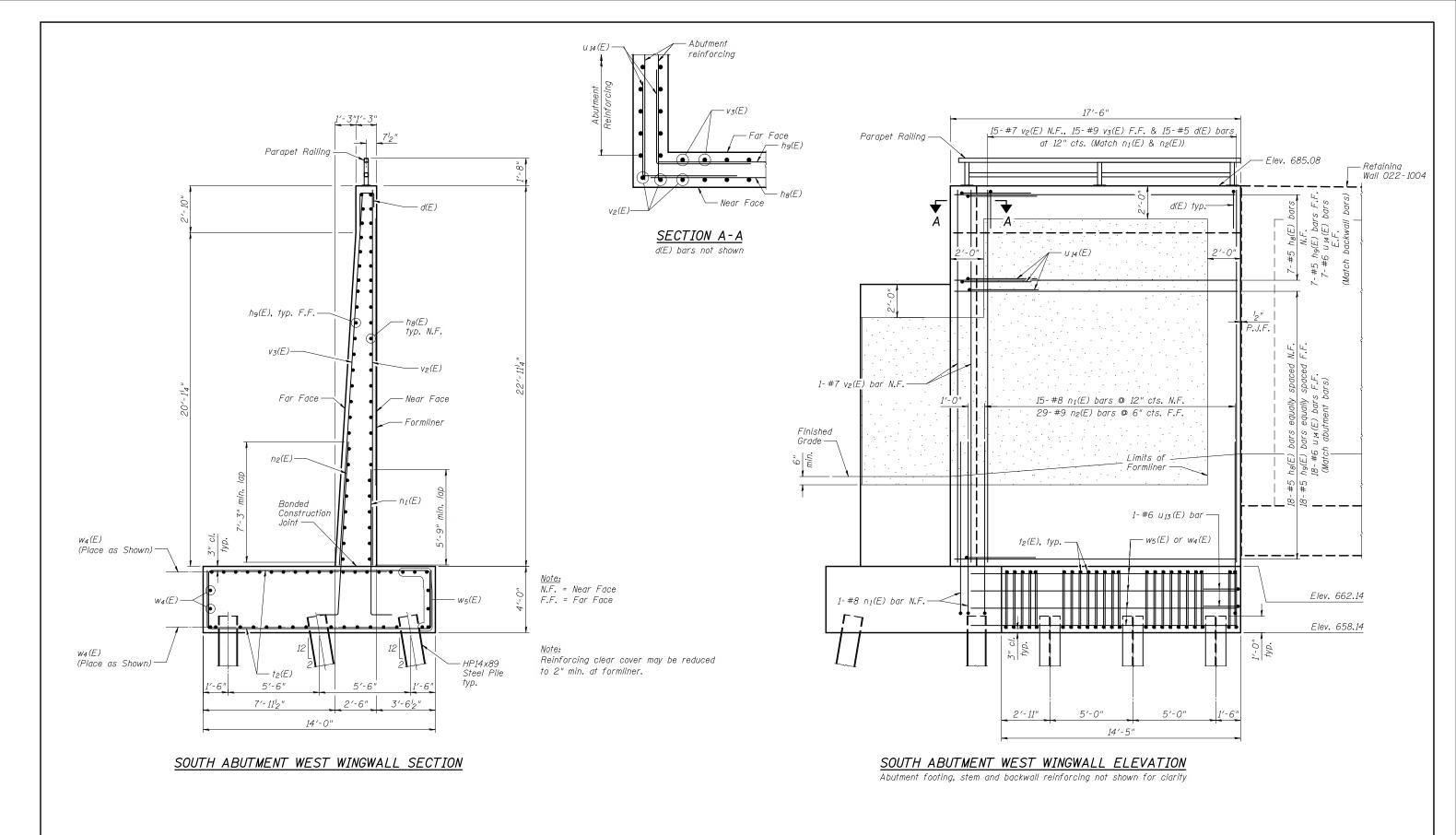






	USER NAME = jmigus	DESIGNED - AMM	REVISED -		SOUTH ABUTMENT EAST WINGWALLS DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	FILE NAME = 0220226-60B42-028-ABD.DCN	CHECKED - LAG	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 022–0226	1321	32VB	DU PAGE	388	169
HDR ENGINEERING, INC.	PLOT SCALE = NONE PLOT DATE = 11/2/2012	DRAWN - RMA CHECKED - AMM	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. 28 OF 43 SHEETS		ILLINOIS FED.	CONTRAC	T NO. 6	50W01

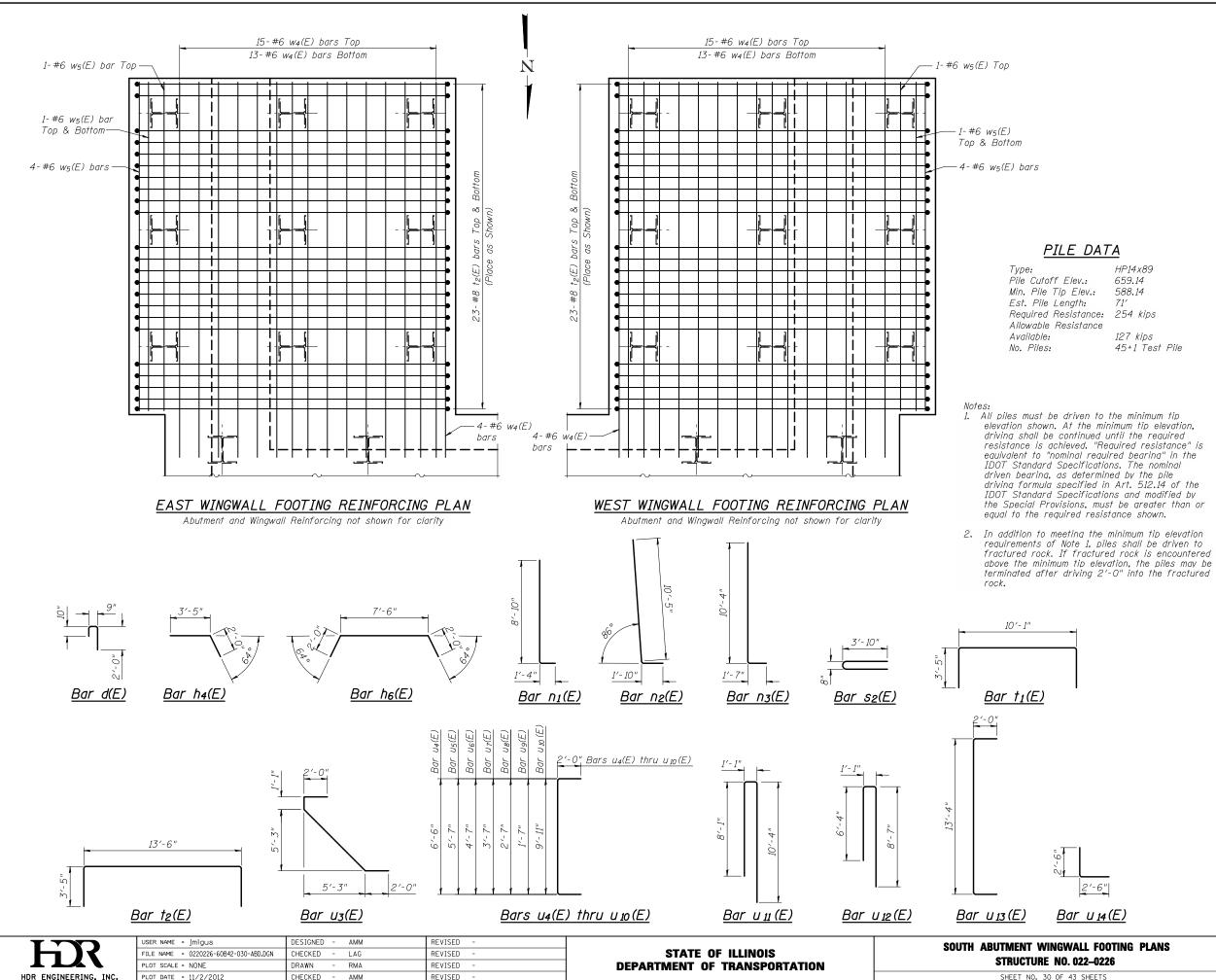
||/2/20|2 ||:25:32 AM



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WINGWALLS DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
. 022–0226	1321	32VB	DU PAGE	388	170
			CONTRACT	NO. 6	50W01
43 SHEETS		ILLINOIS FED. AI	D PROJECT		



II/2/2012 II:25:45 AM

<u>S.</u>	ABUTMENT	
BILL	OF MATERIA	L

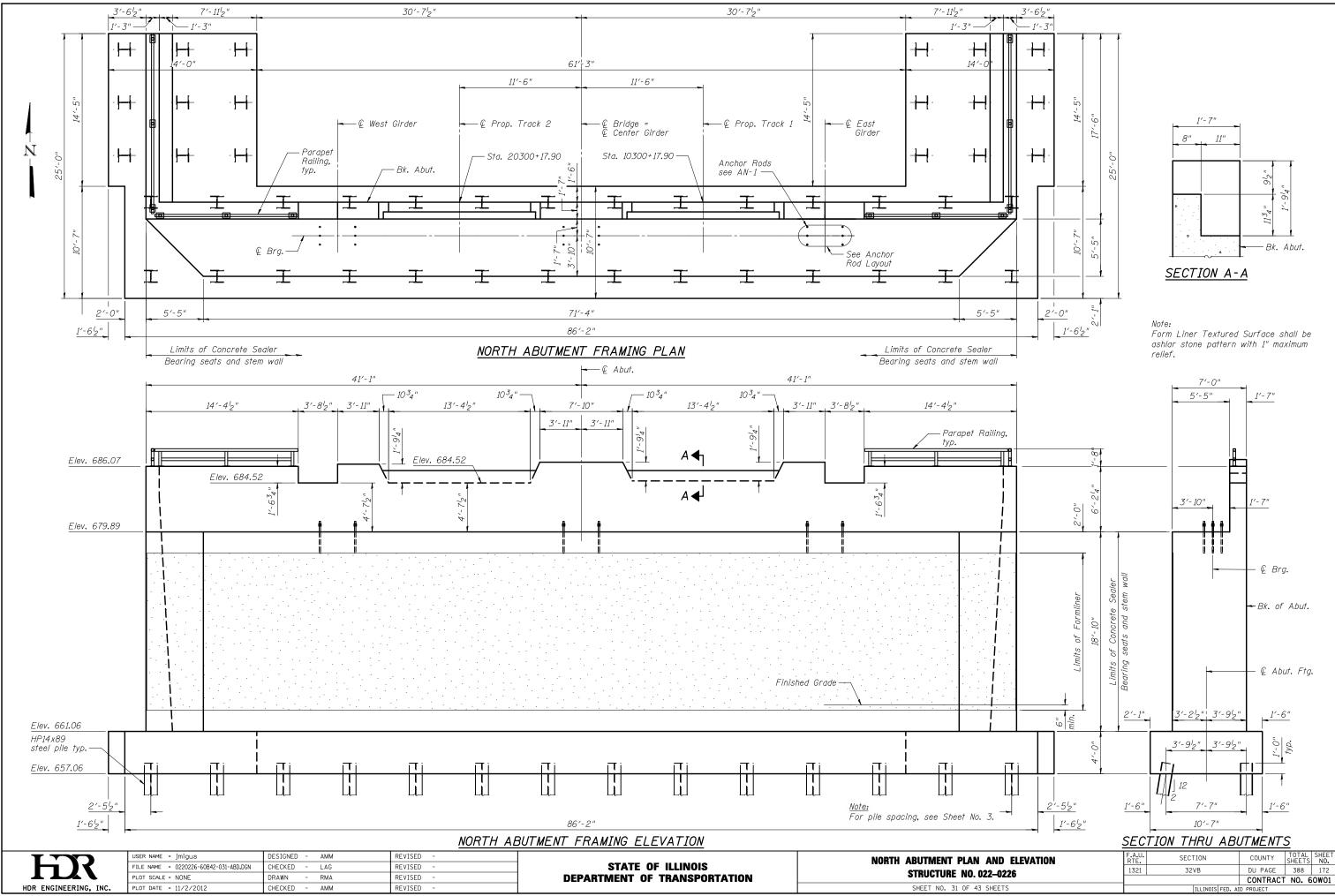
Bar	No.	Size	Length	Shape
d(E)	30	#5	3'-7"	Г
			<u> </u>	-
h1(E)	36	#5	38′-0″	
h ₂ (E)	70	#5	43'-0"	
h3(E)	8	#5	13′-10″	
h4(E)	4	#5	5′-5″	\neg
h5(E)	4	#5	3′-11″	
h ₆ (E)	2	#5	11'-6"	\frown
h7(E)	2	#5	8′-4″	
h ₈ (E)	50	#5	17'-0"	
hg(E)	50	#5	16′-3″	
h 10 (E)	2	#5	18'-2"	
n1(E)	116	#8	10′-2″	L
n ₂ (E)	58	#9	12′-3″	<u>\</u>
n3(E)	163	#9	11'-11"	L
s2(E)	36	#8	8′-4″	
+ (5)	10.1	#0	101 11	
$t_1(E)$	194	#6	16'-11"	
t ₂ (Ε)	92	#8	20'-4"	
<i>u</i> з(Е)	36	#5	12'-7"	۲
u ₄ (E)	72	#6	10'-6"	
u ₅ (E)	2	#6	9'-7"	Ē
u ₆ (E)	2	#6	8'-7"	Ē
u ₇ (E)	2	#6	7'-7"	Ē
u ₈ (E)	2	#6	6′-7″	Г
<i>и</i> 9(Е)	2	#6	5′-7″	Ē
u 10 (E)	4	#6	13′-11″	Ē
u 11 (E)	44	#7	19′-6″	Г
u ₁₂ (E)	38	#7	16′-0″	Г
u ₁₃ (E)	4	#6	17′-4″	E
u 14 (E)	64	#6	5′-0″	L
	20	# 0	10/ 0#	
$v_1(E)$	82	#8	16'-8"	
V ₂ (E)	34	#7	22′-7" 22′-7"	
V3(E)	30 82	#9	22 - 7 16'-8"	
V4(E)	02 30	#9 #6	2'-6"	
v5(E)	50	#0	2 -0	
w2(E)	30	#8	45′-0″	
w3(E)	8	#6	45'-0"	
w4 (E)	64	#6	16′-0″	
w5(E)	14	#6	13′-11″	
	ıral Exc		Cu. Ft.	620
Surfac			Sq. Ft.	1,689
Ероху			Pounds	53 , 190
	t Railing		Foot	61
Furnist Piles H	ning Ste IP14X89	e/	Foot	3,266
Driving			Foot	3,266
Test P HP14X8	ile Stee 19	/	Each	1
Concre	te Seale	er	Sq. Ft.	1,889
Geocom Drain	iposite I	Nall	Sq. Yd.	187
Concre CPR S	te Struc pecial	cture	Cu. Yd.	614.0

Bars indicated thus 6 x 2-#6 etc. indicates 6 lines of bars with 2 lengths per line.

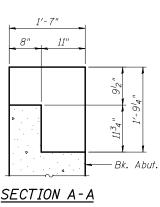
WALL FOOTING PLANS	F.A.U. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
. 022–0226	1321	32VB		DU PAGE	388	171
				CONTRACT	NO. 6	OW01
43 SHEETS		ILLINOIS	FED. AI	D PROJECT		

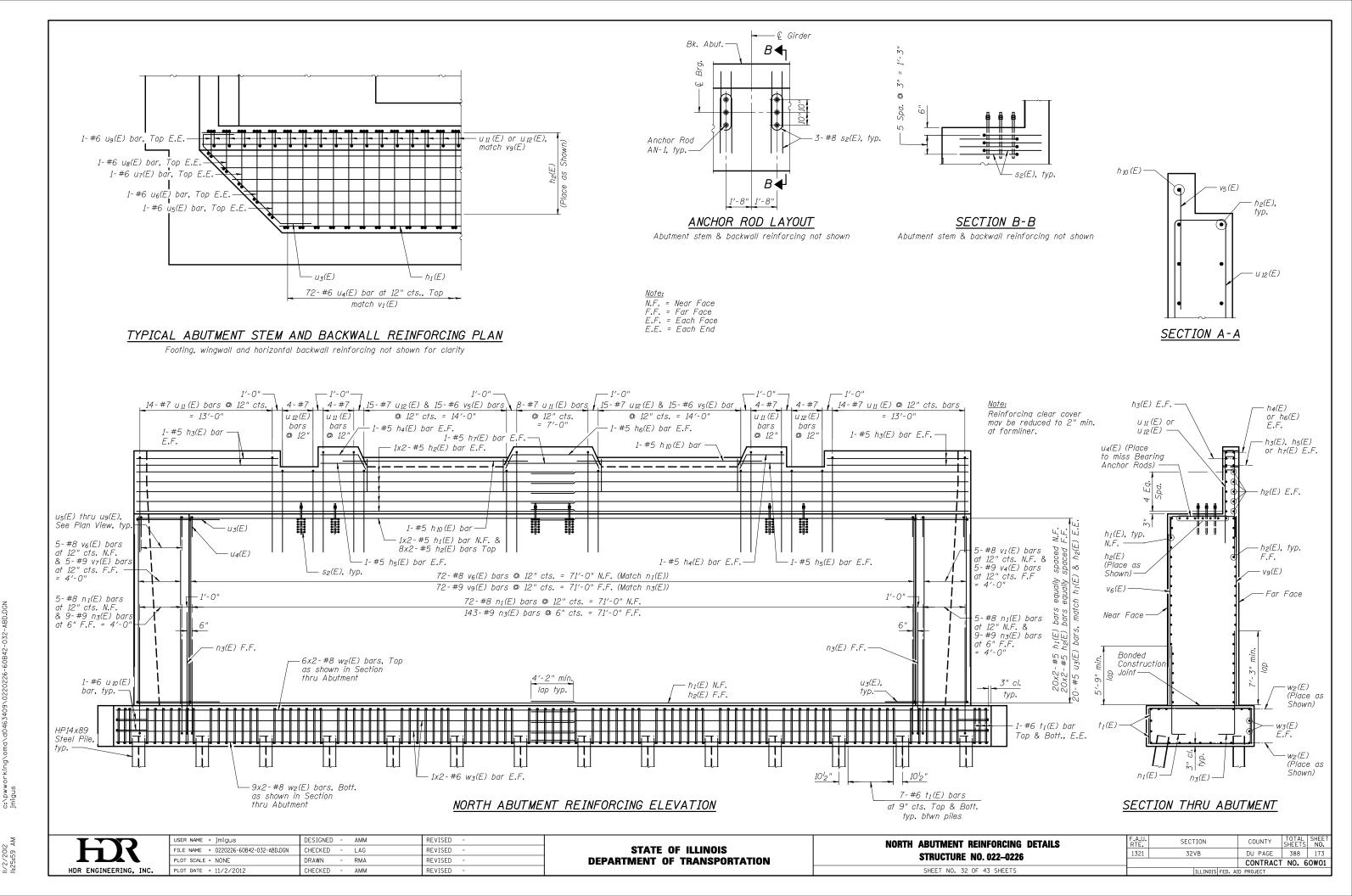
: V.:	HP14x89 659.14 588.14
	71′
nce:	254 kips
ince	
	127 kips
	45+1 Test Pile

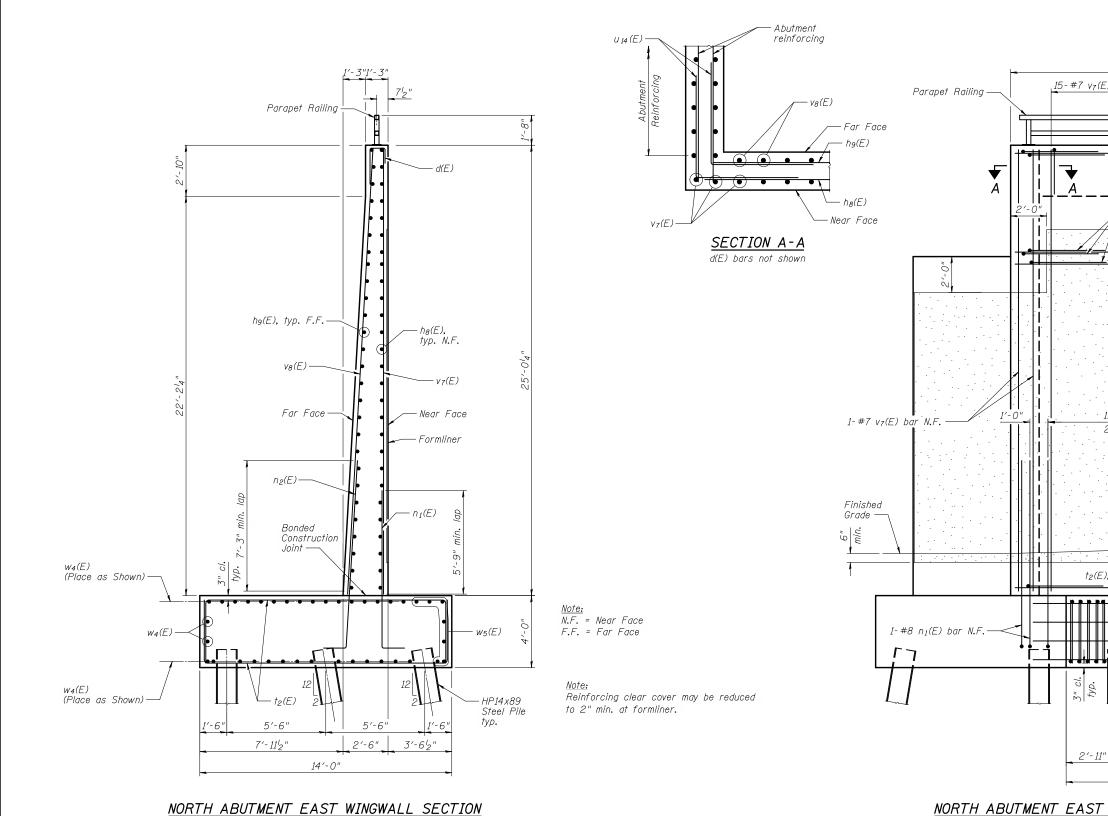
requirements of Note I, piles shall be driven to fractured rock. If fractured rock is encountered



II/2/2012 II:25:52 AM

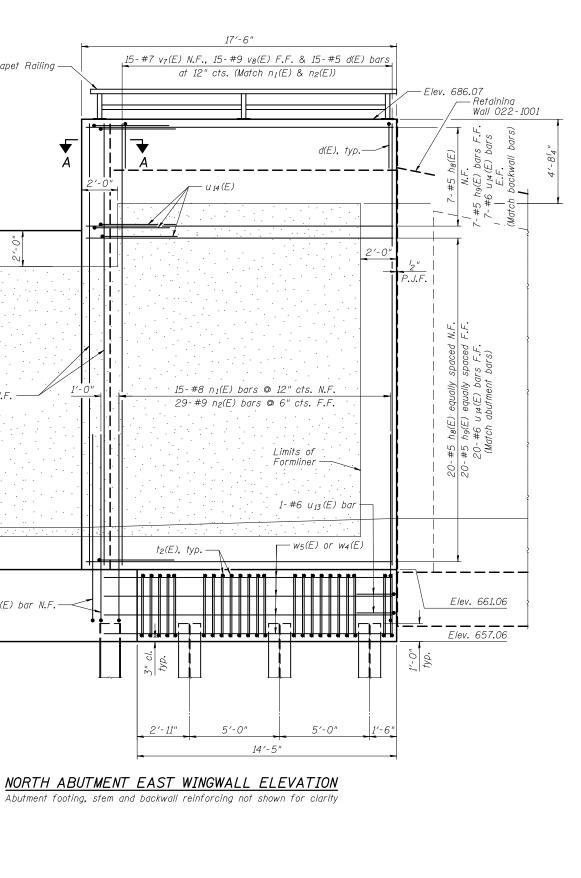




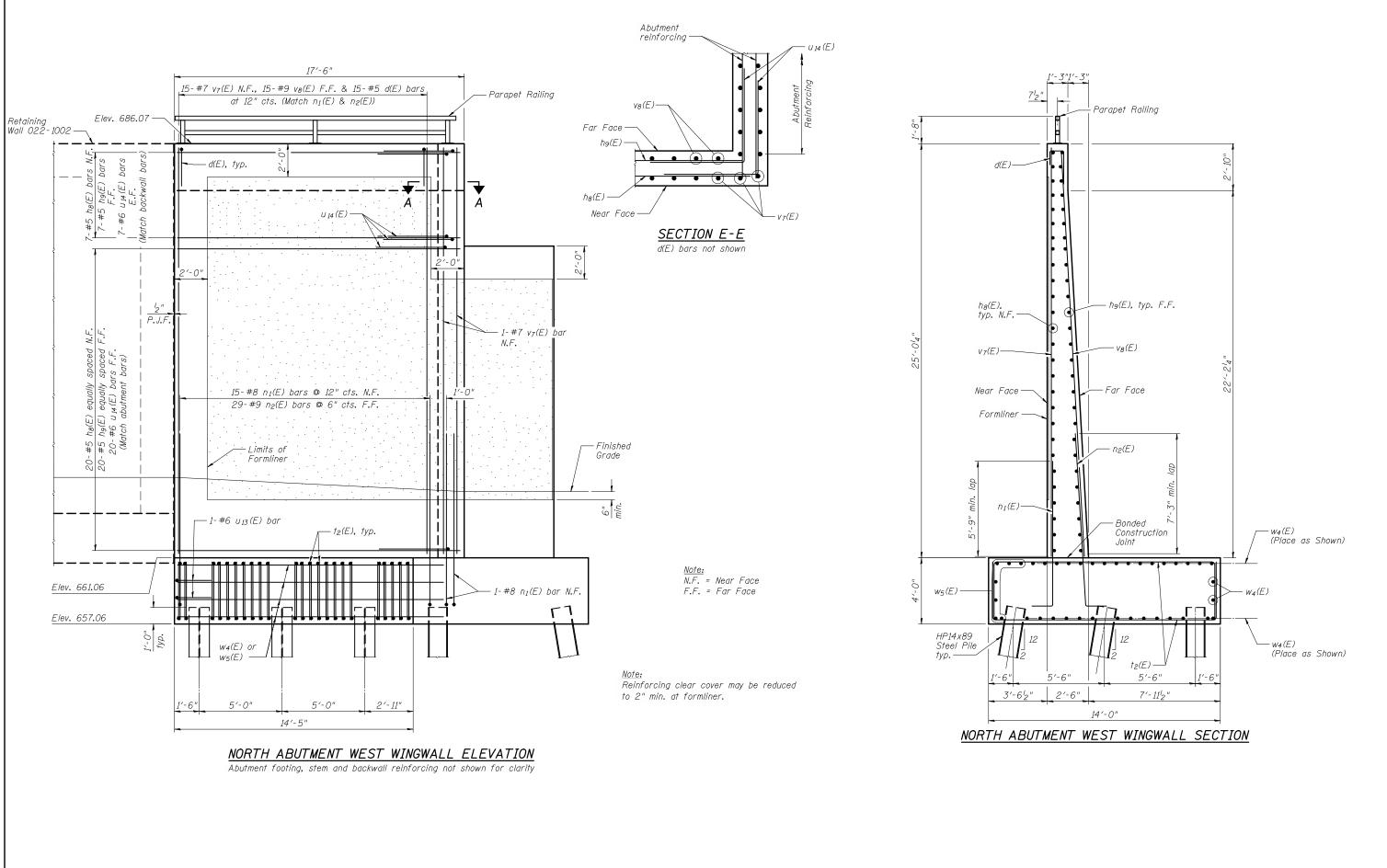


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WINGWALLS DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
. 022–0226		32VB	DU PAGE	388	174
			CONTRACT	NO. 6	OW01
43 SHEETS	ILLINOIS FED. AID PROJECT				

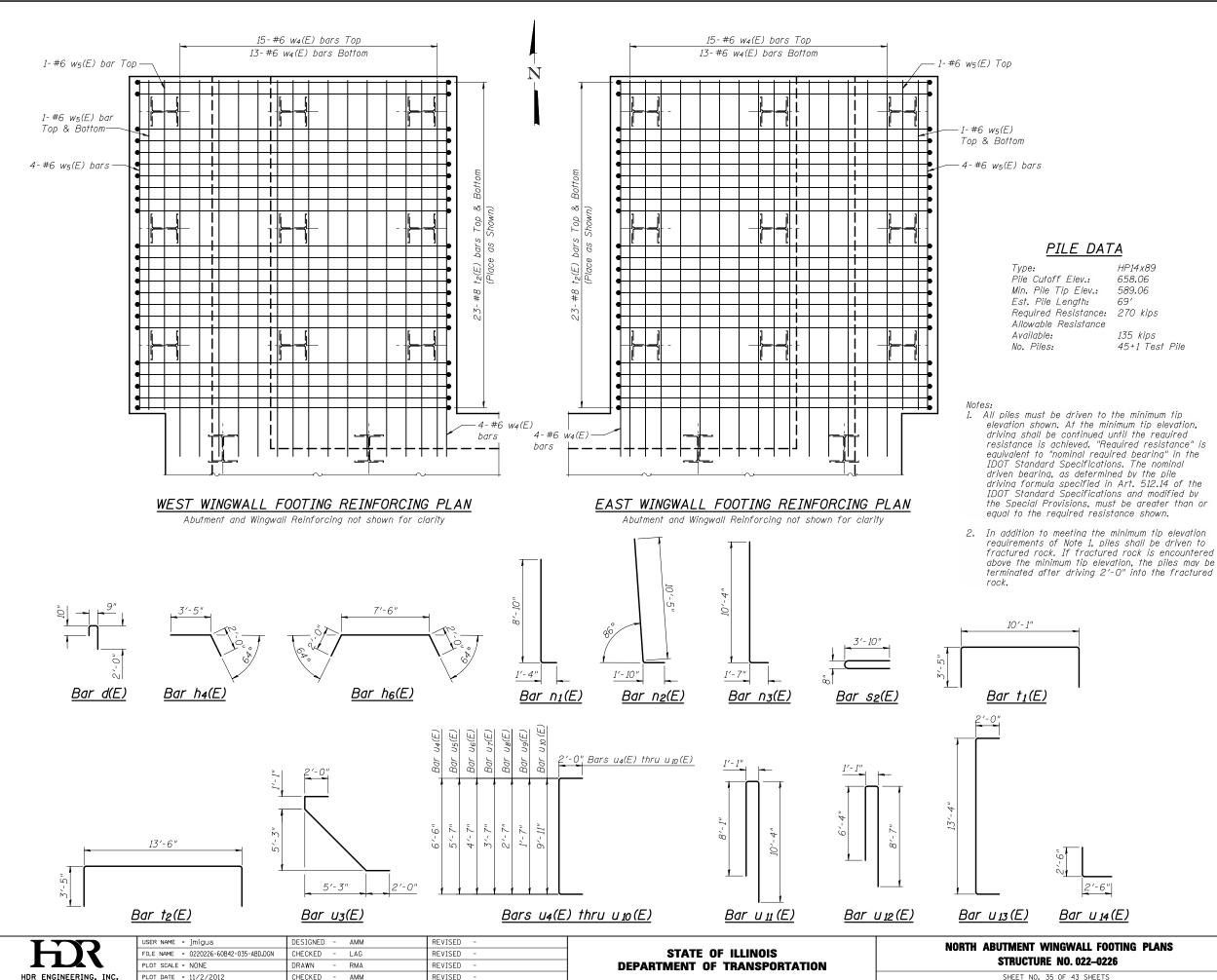


S

STRUCTURE NO. SHEET NO. 34 OF 4

NORTH ABUTMENT WEST

WINGWALLS DETAILS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
. 022–0226	1321	32VB	DU PAGE	388	175	
. 022–0220		CONTRACT NO. 60W01				
43 SHEETS	ILLINOIS FED. AID PROJECT					



II/2/2012 II:26:23 AM

<u>N.</u>	ABUTMENT	
BILL	OF MATERIA	١L

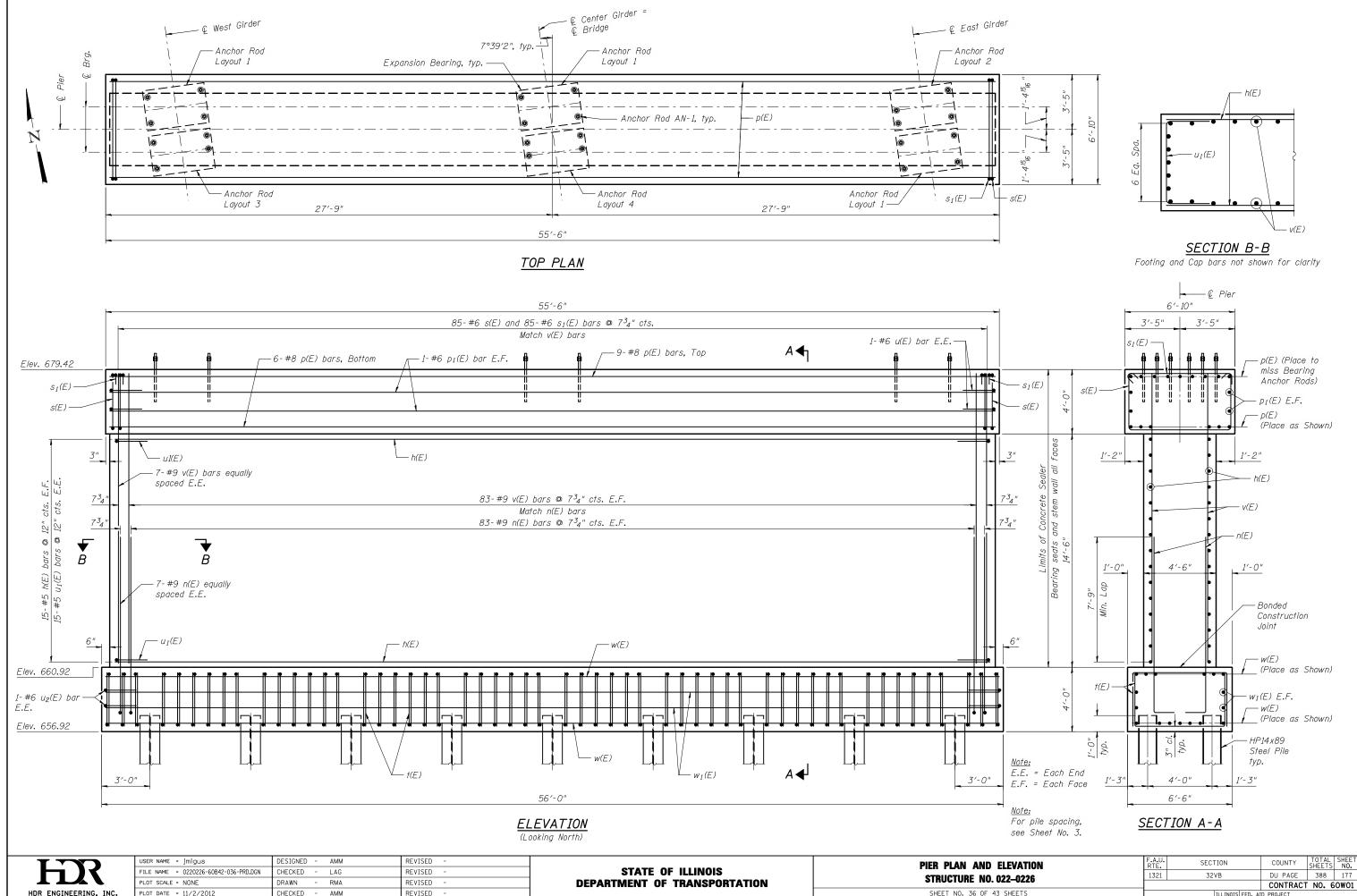
Bar No. Size Length Shap $d(E)$ 30 #5 3'-7" Γ $h_1(E)$ 40 #5 38'-0" $h_2(E)$ 74 #5 43'-0" $h_3(E)$ 8 #5 13'-10" $h_4(E)$ 4 #5 5'-5" $h_5(E)$ 4 #5 3'-11" $h_6(E)$ 2 #5 11'-6" / $h_6(E)$ 2 #5 8'-4" $h_8(E)$ 54 #5 16'-3" $h_9(E)$ 2 #5 18'-2" $h_1(E)$ 116 #8 10'-2" L	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	_
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	、 、
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	_
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	`
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	_
hg(E) 54 #5 16'-3" h_D(E) 2 #5 18'-2" n_1(E) 116 #8 10'-2" L	-
h _{ID} (E) 2 #5 18'-2"	-
n1(E) 116 #8 10'-2" L	-
o (E) EQ #0 10/ Z" \	
n₂(E) 58 #9 12'-3" \	
n3(E) 163 #9 11'-11" L	
s₂(E) 36 #8 8'-4" ⊂	=
t₁(E) 194 #6 16'-11" □	
<i>t₂(E)</i> 92 #8 20′-4″ □	
<i>u</i> ₃ (<i>E</i>) 40 #5 12'-7" C	
<i>u</i> ₄ (<i>E</i>) 72 #6 10′-6″ E	
<i>u</i> ₅ (<i>E</i>) 2 #6 9′-7″ C	
и ₆ (Е) 2 #6 8'-7" Е	
и ₇ (Е) 2 #6 7'-7" Е	
<i>u</i> ₈ (Е) 2 #6 6′-7″ Е	
и ₉ (Е) 2 #6 5'-7" Е	
U ₁₀ (E) 4 #6 13'-11" E	
<i>U</i> ₁₁ (<i>E</i>) 44 #7 19′-6″ □	
$u_{12}(E)$ 38 #7 16'-0" \Box	
U ₁₃ (E) 4 #6 17'-4" E U ₁₄ (E) 68 #6 5'-0" L	
u ₁₄ (E) 68 #6 5'-0" L	
v ₅ (E) 30 #6 2'-6"	_
v ₆ (E) 82 #8 18'-6"	_
v ₇ (E) 34 #7 22'-5"	_
v ₈ (E) 30 #9 24'-5"	_
v ₉ (E) 82 #9 18'-6"	_
w ₂ (E) 30 #8 45'-0" —	-
w3(E) 8 #6 45'-0"	-
w4(E) 64 #6 16'-0"	-
w5(E) 14 #6 13'-11"	-
Structural Excavation Cu. Ft. 424	t
Form Liner Textured Sq. Ft. 1,91. Surface	t
Reinforcing Bars, Epoxy Coated Pounds 54,84	40
Parapet Railing Foot 61	
Furnishing Steel Piles HP14X89 Foot 3,174	4
Driving Piles Foot 3,17-	4
Test Pile Steel HP14X89 Each 1	
Concrete Sealer Sq. Ft. 2,04	8
Geocomposite Wall Sq. Yd. 204	
Concrete Structure CPR Special Cu. Yd. 656.	3

/.:	HP14x89 658.06 589.06 69'
nce:	270 kips
nce	135 kips
	45+1 Test Pile

requirements of Note I, piles shall be driven to fractured rock. If fractured rock is encountered

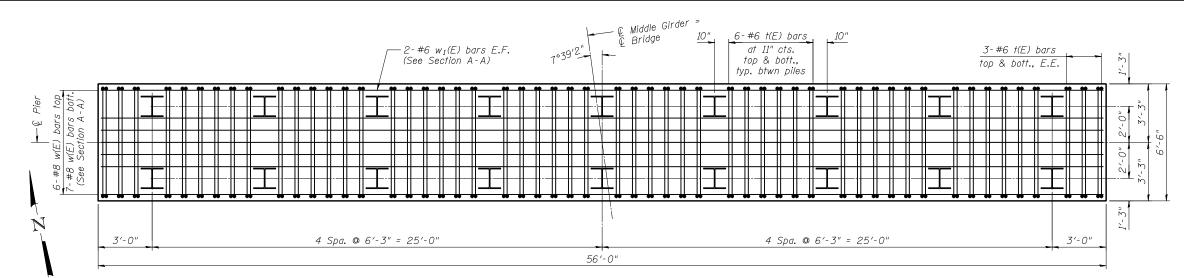
Bars indicated thus 6 x 2-#6 etc. indicates 6 lines of bars with 2 lengths per line.

WALL FOOTING PLANS 0. 022–0226		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		32VB	DU PAGE	388	176
			CONTRACT	NO. 6	OW01
43 SHEETS	ILLINOIS FED. AID PROJECT				



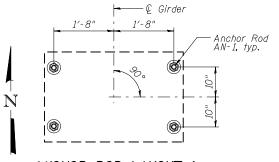
11/2/2012 11:26:30 AM

REVISED PLOT DATE = 11/2/2012 CHECKED -AMM

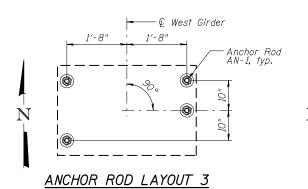


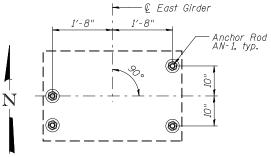
<u>FOOTING PLAN</u>

Top and side longitudinal reinforcing steel not shown.

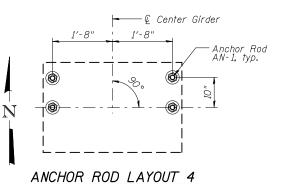


ANCHOR ROD LAYOUT 1





ANCHOR ROD LAYOUT 2



PILE	DATA	

Туре:	HP14x89
Pile Cutoff Elev .:	657.92
Min. Pile Tip Elev.:	588.92
Est. Pile Length:	69′
Required Resistance:	206 kips
Allowable Resistance	
Available:	103 kips
No. Piles:	17+1 Test Pile

Notes:

- 1. All piles must be driven to the minimum tip elevation shown. At the minimum tip elevation, driving shall be continued until the required resistance is achieved. "Required resistance" is equivalent to "nominal required bearing" in the IDOT Standard Specifications. The nominal driven bearing, as determined by the pile driving formula specified in Art. 512.14 of the IDOT Standard Specifications and modified by the Special Provisions, must be greater than or equal to the required resistance shown.
- In addition to meeting the minimum tip elevation requirements of Note 1, piles shall be driven to fractured rock. If fractured rock is encountered above the minimum tip elevation, the piles may be terminated after driving 2'-0" into the fractured rock.

3'-8"	
_	

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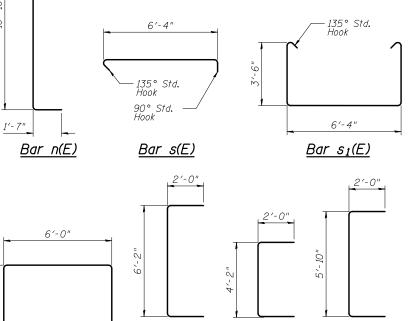
	USER NAME = jmigus	DESIGNED - AMM	REVISED -		PIER FOOTING PLAN AND BILL OF MATERIAL	F.A.U. SECTION	COUNTY TOTAL SHEET
	FILE NAME = 0220226-60B42-037-PRD.DGN	CHECKED - LAG	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 022–0226	1321 32VB	DU PAGE 388 178
	PLOT SCALE = NONE	DRAWN - RMA	REVISED -	DEPARTMENT OF TRANSPORTATION	SINUCIUNE NU. 022-0220	L	CONTRACT NO. 60W01
HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - AMM	REVISED -		SHEET NO. 37 OF 43 SHEETS	ILLINOIS FED.	AID PROJECT

11/2/2012 11:26:39 AM

9 N

<u>PIER</u>					
BILL	0F	MATERIAL			

Bar	No.	Size	Length	Shape
h(E)	30	#5	54′-6″	
n(E)	180	#9	12′-5″	L
p(E)	15	#8	55′-2″	
р1(E)	4	#6	55′-2″	
s(E)	87	#6	8'-0"	Ĺ
s1(E)	87	#6	14′-8″	
†(E)	108	#6	13′-4″	
u(E)	4	#6	10'-2"	С С
$u_I(E)$	30	#5	8'-2"	
u ₂ (E)	4	#6	9′-10″	С
v(E)	180	#9	18'-2"	
(=)				
w(E)	13	#8	55'-6"	
$W_I(E)$	w1(E) 4 #6		55′-6″	
<u></u>				050
	iral Exc		Cu. Yd.	252
Reinfor Epoxy	cing Ba Coated	ırs,	Pounds	30,730
Furnish Piles H	ning Ste P14X89	e/	Foot	1,242
Driving	Piles		Foot	1,242
Test P HP14x8	ile Stee 9	/	Each	1
Anchor	Bolts .	! [/] 2"	Each	24
	te Seale		Sq. Ft.	2,237
Concrei CPR Sp	te Struc pecial	cture	Cu. Yd.	241.3

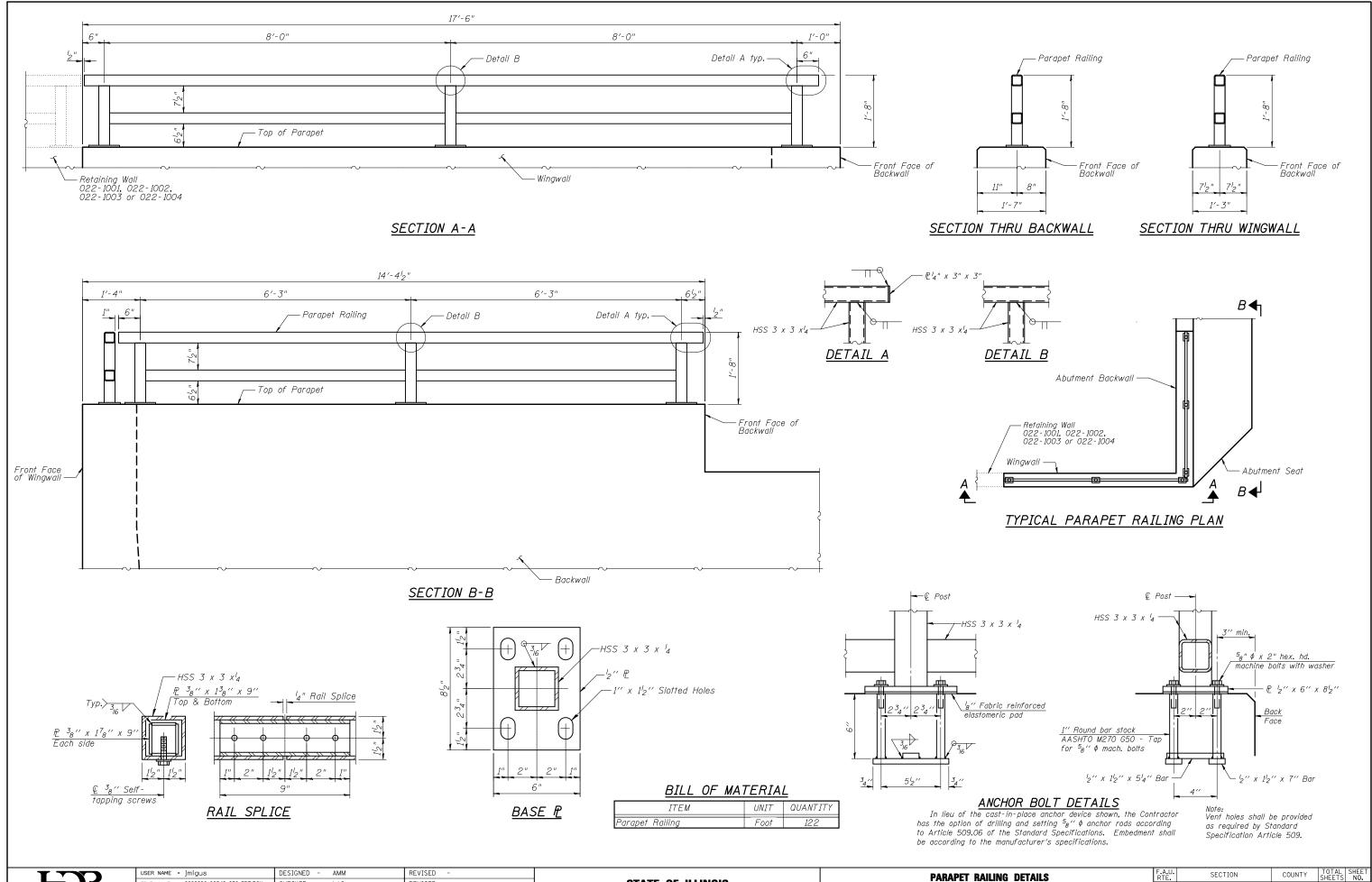


<u>Bar u1(E)</u>

Bar u₂(E)

<u>Bar u(E)</u>

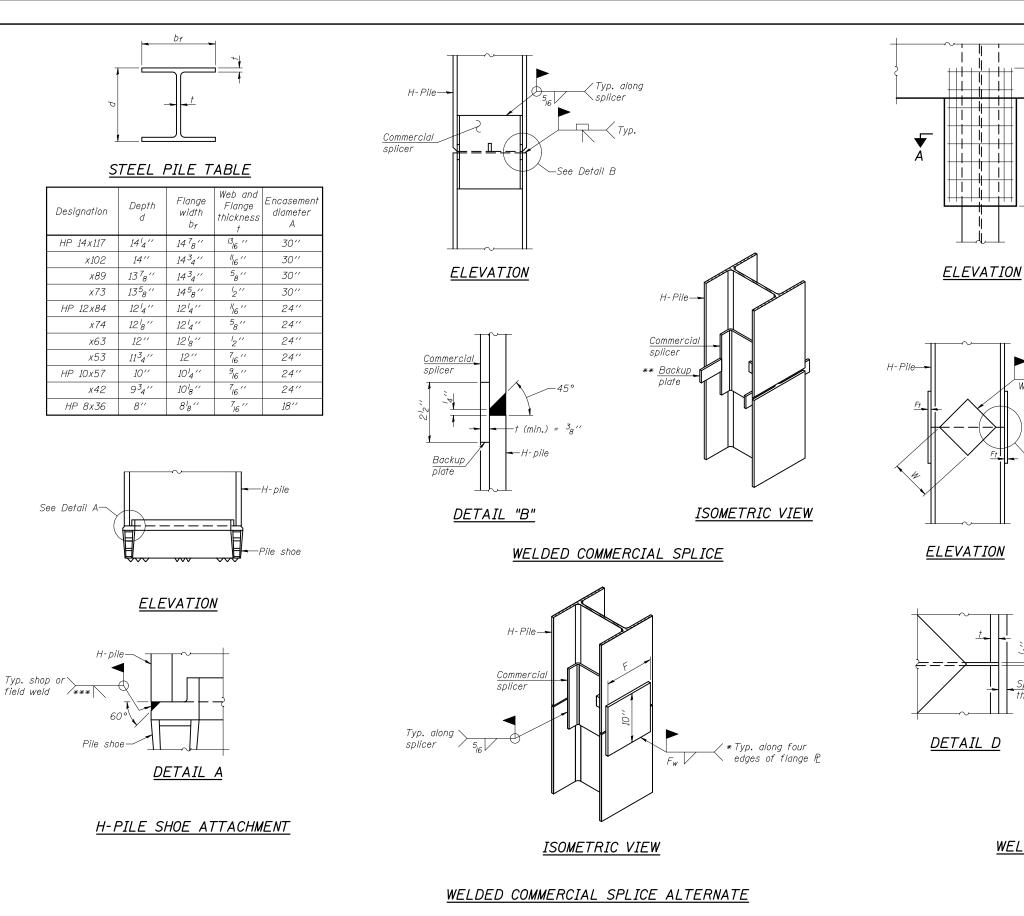
<u>Bar t(E)</u>



S

		USER NAME = jmigus	DESIGNED - AMM	REVISED -		
		FILE NAME = 0220226-60B42-038-RDT.DGN	CHECKED - LAG	REVISED -	STATE OF ILLINOIS	
		PLOT SCALE = NONE	DRAWN - RMA	REVISED -	DEPARTMENT OF TRANSPORTATION	
	HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - AMM	REVISED -		
l	HDR ENGINEERING, INC.	PLUI DATE = 11/2/2012	CHECKED - AMM	REVISED -		

PARAPET RAILING DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 022-0226	1321	32VB	DU PAGE	388	179
31NUCTURE NO. 022-0220			CONTRACT	NO. 6	OW01
SHEET NO. 38 OF 43 SHEETS		ILLINOIS FED. /	ID PROJECT		



- * Interrupt welds ${}^{\rm I}_{\rm 4}{}^{\prime\prime}$ from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (⁵₁₆" min.).

DGN.

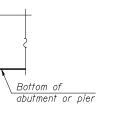
RD

039

c:∖pwwa jmigus

F-HP

7-1-10

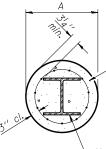


▾

Α

Ww

Splice plate thickness F_t



Welded wire fabric 6 x 6-W4.0 x W4.0 weighing 58#/100 sq. ft. Bend as required to fit into wall.

└──H- pile

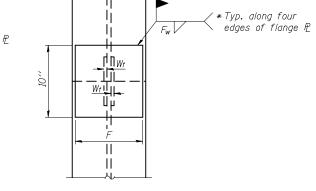
Note: Forms for encasement may be omitted when soil conditions permit.

SECTION A-A

PILE ENCASEMENT

∕ *Typ. along four ∖ edges of flange ₽

└──See Detail D

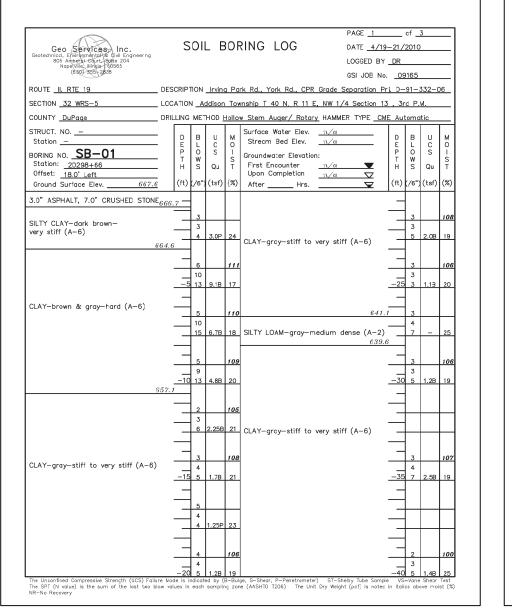


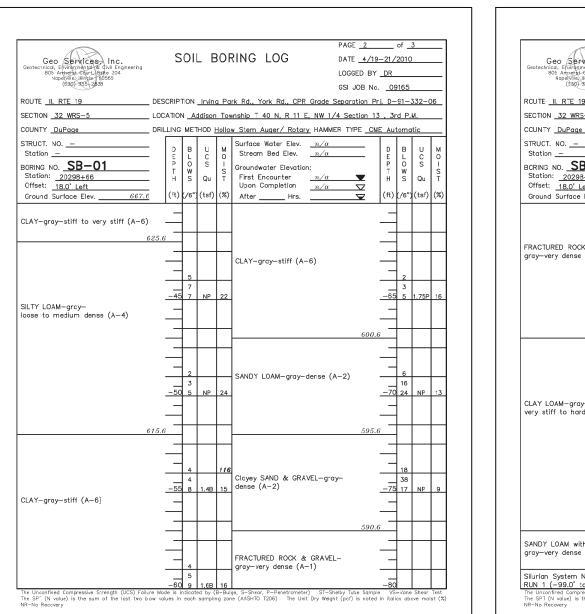


Designation	F	F _t	F _w	W	W _t	Ww
HP 14x117	12 ¹ 2″	1''	7 ₈ ''	7 ³ 4″	5 ₈ ''	2"
x102	12'2''	7 ₈ ′′	3 ₄ ''	7 ³ 4″	5 ₈ ′′	1 ₂ ''
x89	12'2''	3 ₄ ''	"16 ''	7 ³ 4″	5 ₈ ′′	12''
x73	12'2''	58''	⁹ 16 ′′	7 ³ 4''	5 ₈ ''	12''
HP 12x84	10''	7 ₈ ′′	"I6 ''	6′2″	5 ₈ ′′	1_'' 2
x74	10''	78''	"16 ''	6′2″	5 ₈ ′′	1 ₂ ''
x63	10''	58''	2"	6′2″	2"	3 ₈ ''
x53	10''	5 ₈ ''	12''	6 ¹ 2″	2"	3 ₈ ''
HP 10x57	8''	3 ₄ ''	9 ₁₆ ′′	54″	2"	3 ₈ ''
x42	8''	5 ₈ ′′	⁹ 16 ′′	54″	12''	3 ₈ ''
HP 8x36	7''	5 ₈ ''	7 ₁₆ ′′	4' ₄ ''	2"	3 ₈ ''

WELDED PLATE FIELD SPLICE

ETAILS	F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
), 022–0226	1321	32VB	DU PAGE	388	180
			CONTRACT	NO. 6	SOW01
43 SHEETS		ILLINOIS FED. AI	D PROJECT		



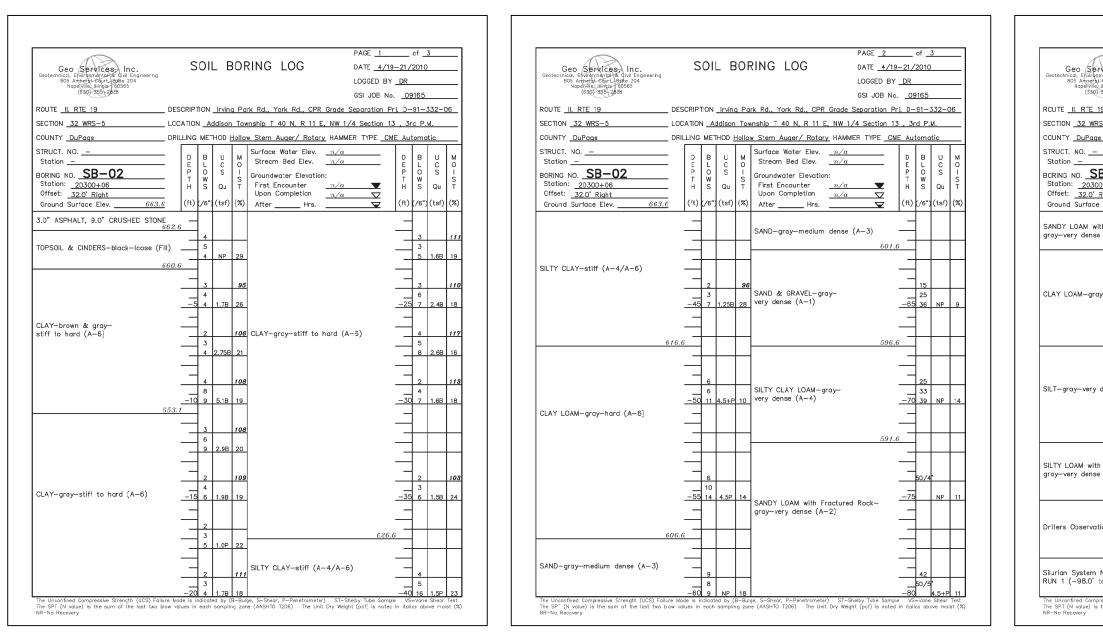


II/2/2012 II:27:09 AM

	USER NAME = jmigus	DESIGNED -	REVISED -		SOIL BORING LOG
	FILE NAME = 0220226-60842-040-SBL.DGN	CHECKED -	REVISED -	STATE OF ILLINOIS	
	PLOT SCALE = NONE	DRAWN - RMA	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 022–
HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - AMM	REVISED -		SHEET NO. 40 OF 43 SHE

vices: Inc. antu-X& Givil Engineering Caurt. Jourte 204 Himbus F 60565 3555-2833	S	01	LE	BOF	RING L	.OG		PAGE <u>3</u> DATE <u>4/19</u> LOGGED BY	-21/				
355-2833								GSI JOB No	09	165		_	
	DESCRIPTIONrving_Pc 								06				
												-	
0	DESCRIPTION _Irving Pa LOCATION _Addison Tox DRILLING METHOD Hollo D B U C 0 P 0 S 1 T 0 S 1 H S Qu T 667.6 (ft) (/6") (tsf) (%) AVEL- 0/6" 0	Surface Wa		n/a	N TIFE <u>CM</u>		.cmat		-				
3-01 ++66 eft Elev. <u>667.6</u>		0 I S T	Stream B Groundwate First Ence Upon Cor After	led Elev. er Elevatici punter	n/a		D E T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M 0 			
< & GRAVEL-					from -99. fractures	ine graine ⊢in fractu 0'to −99 © −100.1'.	d with so res. Verti .4'. Horiz _100.8'.	ome light cal fracture contcl 101.1'.					
(A-1)	DESCRIPTION Irving PA LOCATION Addison To DRILLING METHOD Hold D B U M D B U M D B U M D B U M P 0 S I T W SQuit T G667.6 (tt) /6*3 (tsf) (%) I SRAVEL-		-101.4', - -102.4', - -104.5', - -107.0', -	-101.4', -1-1.7', -101.8', -102.2', -102.4', -103.2', -104.0', -104.4', -104.5', -105.8', -106.5', -106.6', -107.0', -107.6', -107.8' & -108.3'.			_						
	<u>-85</u>		NP	9	Recovery= R.Q.D.=85. 100.0% Wo	0'	∍ −103.0	,	<u>-105</u>	F	RUN 1		
58(E L C O Image: Constraint of the stress of the					_							
						_							
	_	50/6			End Of Bo			558.	_				
/_ J (A-6)			2.5P	12	Hollow Ste Rotary Dri CME Autor 10.0' Of 4	lling To Ca natic Ham .0"ø Casin	mpletion mer g Used	2'	<u>-110</u> 				
	_				100.0' Of	3.C"ø Casi	ng Used		_				
	_		,										
	95	-	<u>4.5+P</u>	13					<u>-115</u>				
570	0.6								_				
h Fractured Rock- (A-2)									_				
ooz Niagaran Series Dolom o −109.0')	ite								-120				
essive Strength (UCS) Failure	Mode is in	ndicat	ed by (samplir	B-Bul ng zor	ge, S-Shear, P ie (AASHTD T20	-Penetrometer)6) The Uni	r) ST-She t Dry Weight	lby Tube Sampi (pcf) is roted	e VS:	=Vane cs abov	Shear /e moi	Test st (%)	
LOGS					F.A.U. RTE.		SECTION		CO	JNTY	ç	TOTAL	SHE

i LOGS	RTE.	SECTION		CODINITI	SHEETS	NO.
022–0226	1321	32VB		DU PAGE	388	181
V22-V22V				CONTRACT	NO. 6	OW01
43 SHEETS		ILLINOIS	FED. AI	D PROJECT		

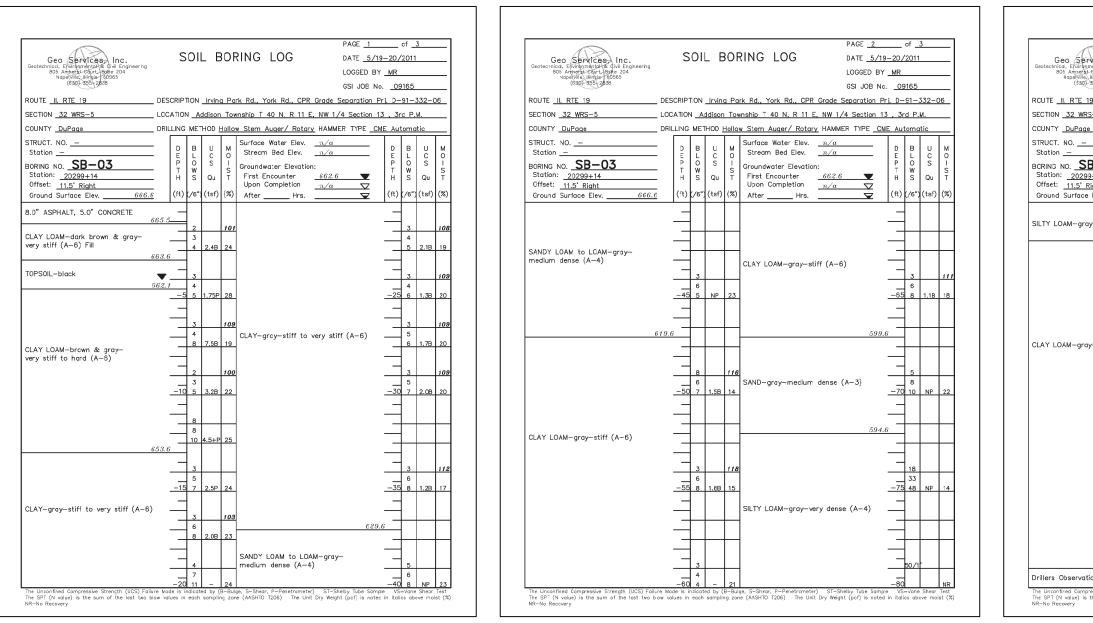


11/2/2012 11:27:24 AM

	USER NAME = jmigus	DESIGNED -	REVISED -		SOIL BORING LOG
	FILE NAME = 0220226-60B42-041-SBL.DCN	CHECKED -	REVISED -	STATE OF ILLINOIS	
	PLOT SCALE = NONE	DRAWN - RMA	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 022-
HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - AMM	REVISED -		SHEET NO. 41 OF 43 SHE

vices, Inc. hental & Givil Engineering Caurt Jonke 204 linguis Co565 3551 2833	S	OIL	- E	OF	RING LOG	PAGE <u>3</u> DATE <u>4/1</u> LOGGED BY	9 <u>-21/:</u> ' <u>DR</u>	2010		
9					rk Rd., York Rd., CPR Gro vnship T 40 N, R 11 E, N		rj. D—	91-332-	-06	
	DRILLING	MET	HOD <u>H</u>	lollo	w Stem Auger/ Rotary H	AMMER TYPE <u>CI</u>	/E Aut	omatic		
3-02 0+06 Right Elev. <u>663.6</u>	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M 0 − S ⊤ (%)	Stream Bed Elev. <u>n</u> Groundwater Elevaticn: First Encounter <u>n</u>	/a /a /a ▼ /a ▼	D E P T H	B U L C O S W S Qu (/6") (tsf		
y-hard (A-6)		33 38 37	4.5+P	9	Light gray to gray with bedding. Fine grained wi weathering in fractures. Horizontal fractures @ - -99.3', -99.5', -100.1', -101.1', 101.3', -102.6', -103.7', -105.0', -105. & -106.8'. Recovery=98.0% R.Q.D.=87.0%	th some light some vugs. -98.5' -98.7'		RUN	1	
dense (A-4)	 71.6	46 50/5	, NP	12	End Of Boring © -108.0 Hollow Stem Augers To Rotary Drilling To Compl CME Automatic Hammer 10.0° Of 4.0°¢ Casing U 108.0° Of 3.0°¢ Casing	-10.0' etion sed	<u>6</u> 			
। Fractured Rock- (A-2) उर्ग	68.6 -95	50/4	, NP	10						
ion: Cobbles & Bould	ers									
Niagaran Series Dolor to —108.0')	-100		RUN 1				 			
essive Strength (UCS) Fallur the sum of the last two blo	e Mode is i w values in	each	d by (samplir	3-Buli ig zon	çe, S-Shear, P-Penetrometer) : le (AASHTO T206) The Unit Dry	SI-Sheby Lbe Samp Weght (pcf) is roted	ile VS= d in italia	=Vane Shea :s above m	r lest oist (%)	
LOGS					NIL.	TION		JNTY	TOTAL SHEETS	
022-0226					1321 32	2VB		PAGE ITRACT	388 NO. 6	182 50WO

3 SHEETS



	USER NAME = jmigus	DESIGNED -	REVISED -		SOIL BORING LOGS	F.A.U. SECTION	COUNTY TOTAL SHEET
	FILE NAME = 0220226-60B42-042-SBL.DGN	CHECKED -	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 022–0226	1321 32VB	DU PAGE 388 183
HDR ENGINEERING. INC.	PLOT SCALE = NONE PLOT DATE = 11/2/2012	DRAWN - RMA CHECKED - AMM	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. 42 OF 43 SHEETS		CONTRACT NO. 60W01

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vices, Inc. neptal & Givil Engineering Court: Suite 204 Wingis 60565	2			U	RING L	.06	DATE <u>5/1</u>		2011	—	
-Caurt_ISplte 204 JHingis- 60565 355-2883							LOGGED BY		165	—	
			la la				GSI JOB N				
							Grade Separation F			-06	
							NW 1/4 Section 1				
DI		MEI			Surface Wa		HAMMER TYPE <u>C</u>			_	
	D E	B L	U C	M	Stream B		n/a	DE	B U L C		
3–03	P T	0 W	S	I S	Groundwate	er Elevation	:	P T	0 S W	l S	
9+14 ight	Ĥ	ŝ	Qu	Ť	First Enco Upon Cor		$\frac{662.6}{n/a}$	Ĥ	S Qu		
Elev. <u>666.6</u>	(ft)	(/6")	(tsf)	(%)	After	Hrs.		(ft)	(/6")(ts	f) (%)	
	-				Drillers Ob		Weathered Bedrock				
y-very dense (A-4)					Drillers Ob	servation:	Apparent Bedrock	565.6			
584	.6				Silurian Sv	stem Niaa	aran Series Dolomi	te			
	_	-		-	RUN 1 (-1	101.0' to -		_			
	_				bedding. F	ine grained	with some light				
		31		-	horizontal	fractures t	es. Numerous hroughout with				
	-85	50/4	4.5P	11		-	rtical fractures.	-105			
	_					ter loss @	-105.5'.	_	DUN		
					Recovery= R.Q.D.=65.	100.0% .0%			RUN		
	_							_			
-very dense (A-6)	_							_			
	_										
		50/5									
	-90		4.5+P	11				-110			
	_						555				
	_				End Of Bo	ring @ -11		.0			
					Hollow Ste	m Augers	To -10.0'				
					CME Autor	lling To Co natic Hamr	ner				
	_					.0"ø Casing 3.0"ø Casir		_			
		27 39					· y				
	-95	50/4	"	14				<u>-115</u>		+	
	_							_			
	_							_			
	_							_			
567		42						_			
on: Weathered Bedrock		50/2						_			
	-100	ndicat	NP ed by (14 B-Bul	çe, S-Shear, P	-Penetrometer)	ST-Shelby Tube Sam	-120	=Vane She	ar Test	
essive Strength (UCS) Failure M he sum of the lost two blow	values in	each	sampli	ng zor	ne (AASHTD T20	06) The Unit	Dry Weght (pcf) is rote	d in itali	cs above n	noist (%)	
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LOGS					F.A.U. RTE.	5	ECTION	CO	JNTY	TOTAL SHEETS	S F

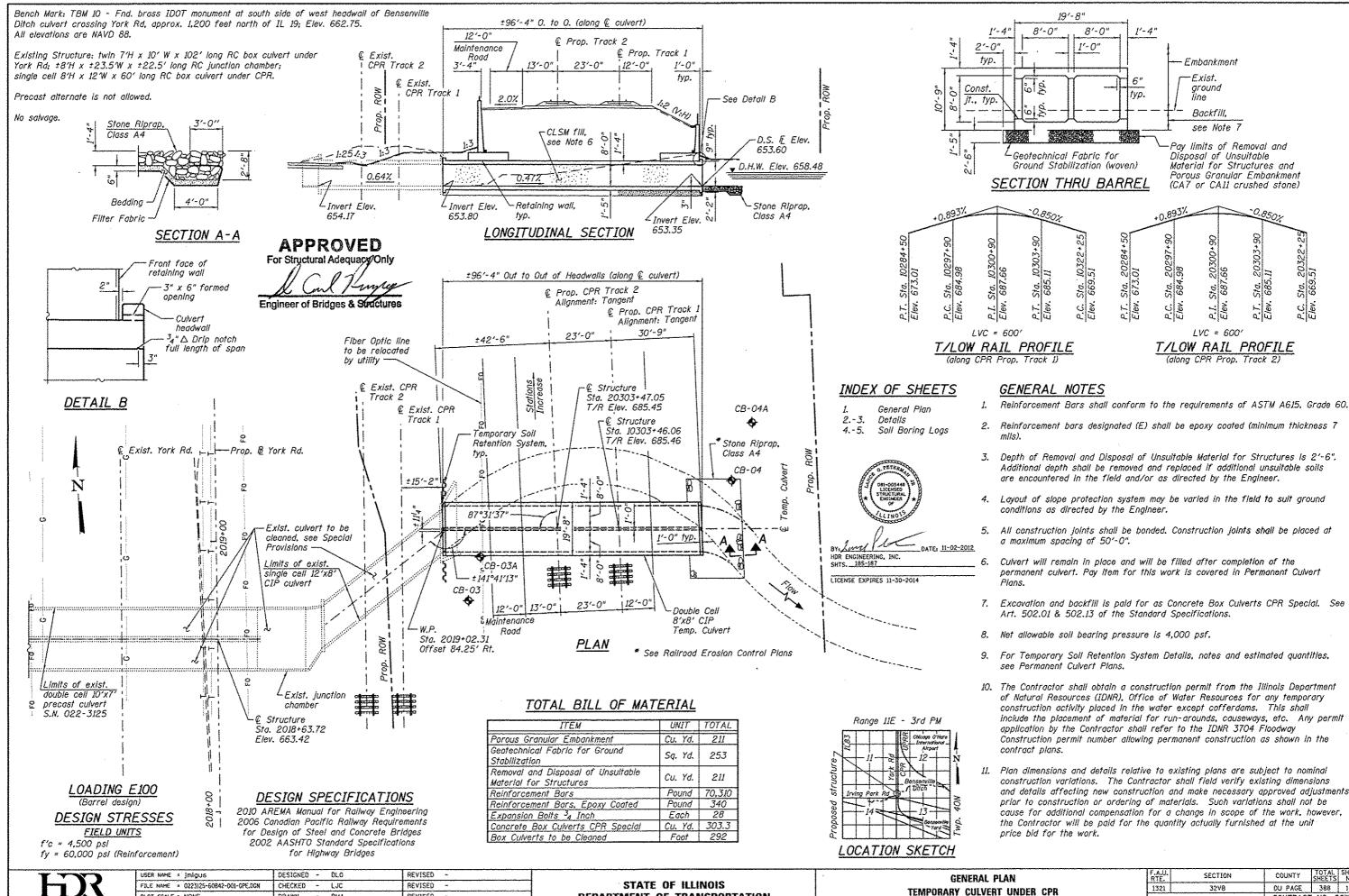
				P	AGE _	1		of <u>1</u>		_
Geo Services, Inc.	ROCK	CORE	LOG	D	ATE _	4/19	-21/	2010		
Geo Services, Inc. Geotechnical, Environmental & Givi Engineering 805 Artherst. Court, Southe 204 Nape Ville, Jihnyis - 80565				LC	GGED	BY	DR			
(630) 355-2838				G	SI JOE	B No.	_09	165		
ROUTE II. RTE 19	DESCRIPTIONIrvir	ng Park Rd.,	York Rd., CPR	Grade Sep	aratic	n Pr	j. D—	91-3	32-0	06
SECTION 32 WRS-5	LOCATION Addiso	n Township	T 40 N, R 11 E,	<u>NW 1/4</u>	Sectio	n 13	5 , 3r	d P.M	Λ.	
COUNTY <u>DuPage</u>	CORING METHOD	Rotary Was	h			-		-	-	_
			NX Double St	wivel-10 ft	D E	C O	R	R ·	сo	
					P T	R E	C O	Q	R E T	
BORING NO. SB-01	Begin Core Elev.	568.6			Н		V E	D	I M	
Offset: <u>18.0' Left</u>							R Y		E	
Ground Surface Elev667.6					(ft)	(#)	(%)	(%)	(min /ft)	(t
	omite				_	1	100.0	85.0	n/a	92 -9
										Ľ
fractures. Vertical fracture from -9	9.0' to -99.4'. Ho	rizontal frac	tures @ -100.1	'100.8'						
-1011' -1014' -1-17' -1018' -	-102 2' -102 4' -	-103 2' -10	4.0', -104.4',	-104.5',						
-105.8, -106.5, -106.8, -107.0,	-107.6, -107.8	& -108.3.								
100.0% Water Loss @ −103.0'.					_					
RUCT. NO				_104						
					_					
					_					
				and the second se	 					
	R-UI									
	B-01		09165							
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	B-01		09165							

	SECTION <u>32 WRS-5</u> COUNTY <u>DuPage</u> COUNTY <u>Dup</u>	LOGED BY <u>M</u> CSI JOB N. <u>09165</u> 1.40 N. R 11 E. NW 1/4 Section 13 . 3rd P.M. THE <u>NX Double Swivel-10 ft</u> <u>P</u> <u>R</u> <u>C</u> <u>R</u> <u>R</u> <u>C</u> <u>R</u> <u>T</u> <u>E</u> (ft) (#) (3) (3) /ft) (157) (ft) (#) (3) (3) /ft) (157) (ft) (#) (3) (3) /ft) (157) (ft) (#) (3) (4) /ft) (4) (4) (5) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		RTE. SECTION COUNTY SHEETS 1321 32VB DU PAGE 388

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	USER NAME = jmigus	DESIGNED -	REVISED -		ROCK CORE LOG
	FILE NAME = 0220226-60B42-043-SBL.DGN	CHECKED -	REVISED -	STATE OF ILLINOIS	
	PLOT SCALE = NONE	DRAWN - RMA	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 022-
HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - AMM	REVISED -		SHEET NO. 43 OF 43 SH



DEPARTMENT OF TRANSPORTATION

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PLOT SCALE = NONE

PLOT DATE = 12/3/2012

HDR ENGINEERING. INC.

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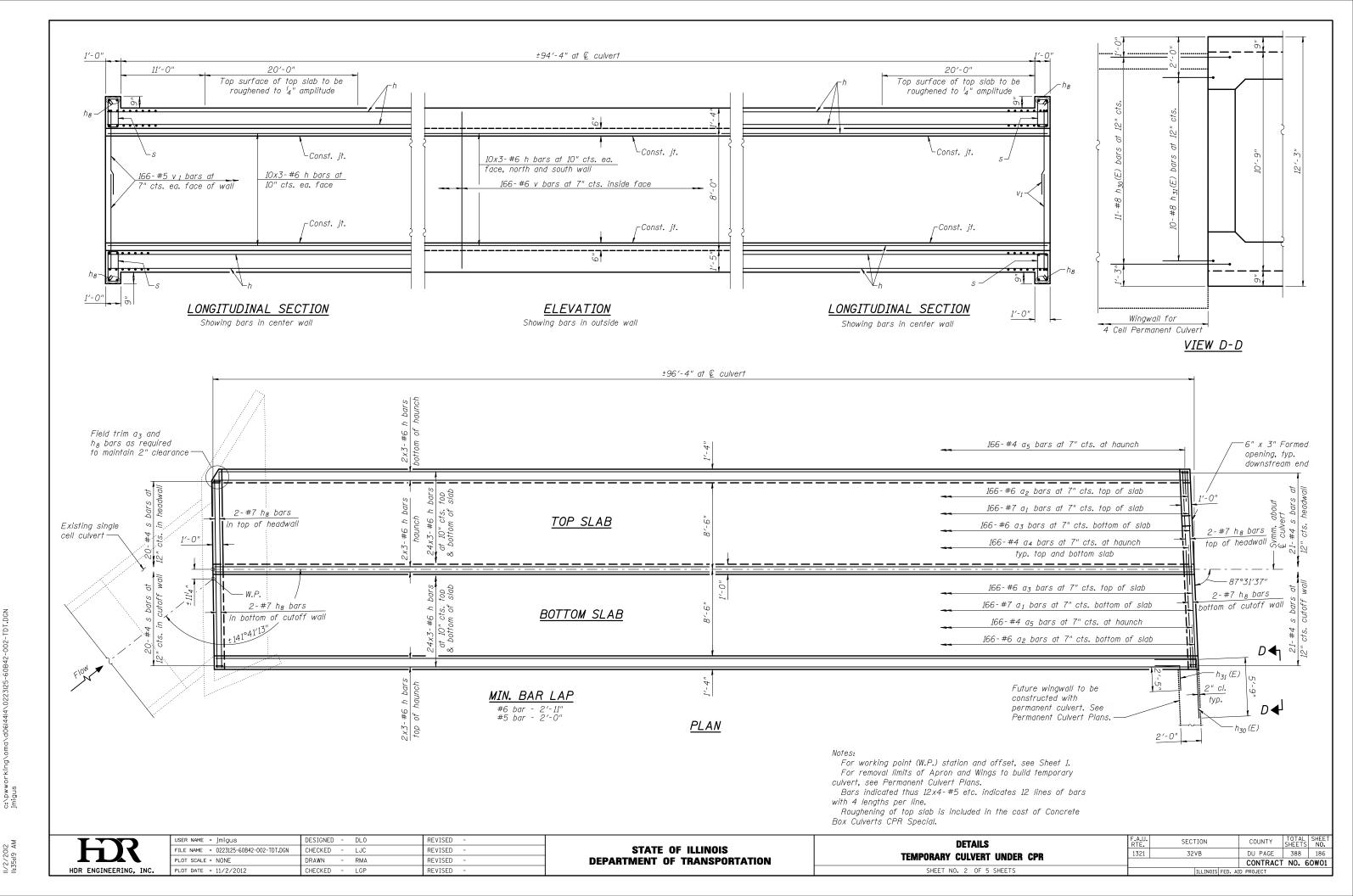
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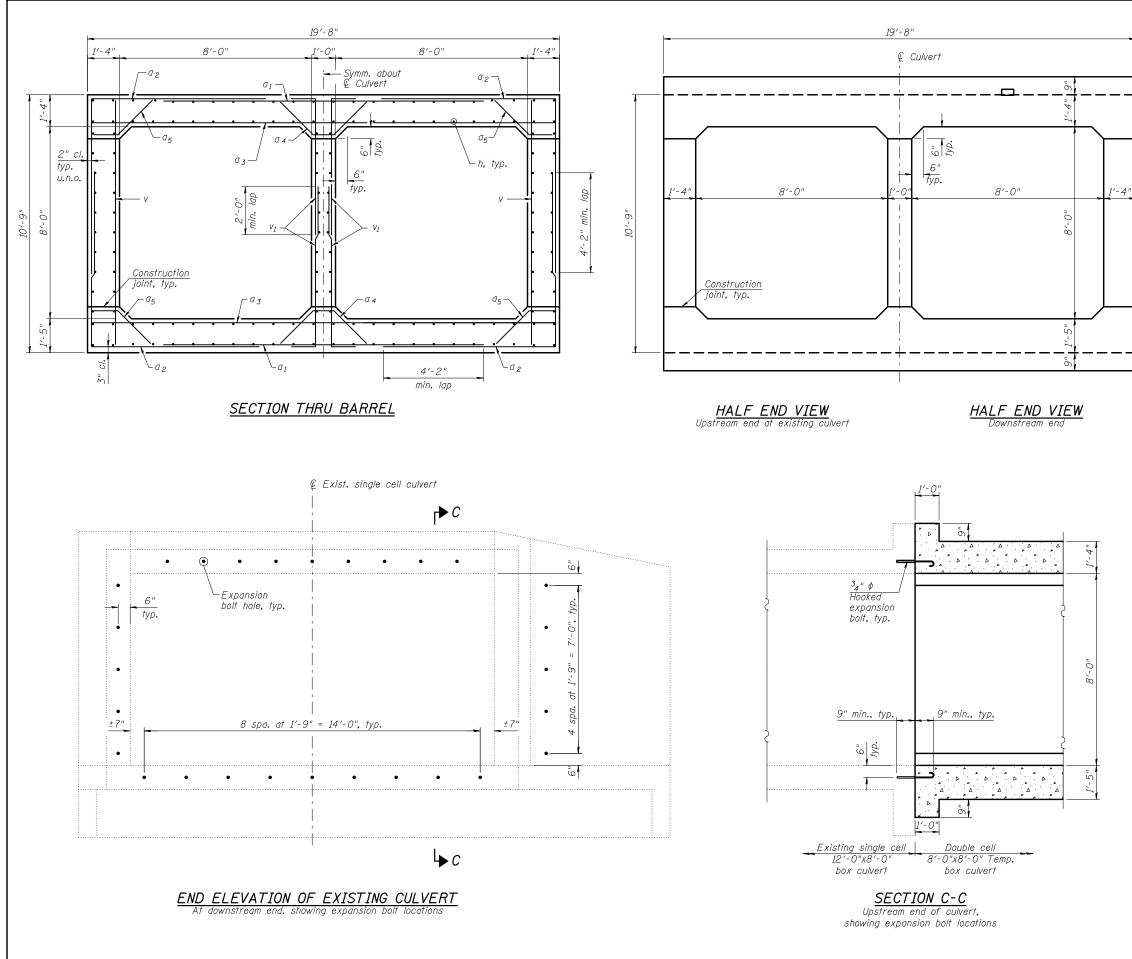
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SHEET NO. 1 OF S

and details affecting new construction and make necessary approved adjustments

LAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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S SHEETS		ILLINOIS FED. AL	D PROJECT		

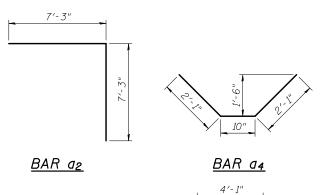


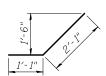


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HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - LGP	REVISED -		SHEET NO.

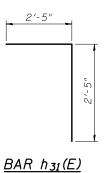
<u>BILL OF BARS</u>

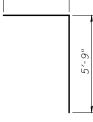
Bar	No.	Size	Length	Shape
a ₁	332	#7	13′-4″	
<i>d</i> 2	664	#6	14′-6″	Γ
d z	332	#6	19′-4″	
<i>04</i>	332	#4	5′-0″	$\left\langle \right\rangle$
<i>d</i> 5	664	#4	3'-2"	
h	468	#6	34'-0"	
h8	8	#7	19′-4″	
h 30(E)	11	#8	9′-10″	
h31(E)	10	#5	4′-10″	
S	82	#4	5′-7″	
V	332	#6	10′-4″	
V 1	664	#5	7′-2″	
Concret CPR Sp	'e Box (becial	Culverts	Cu. Yd.	303.3
Reinfor	cement	Bars	Pound	70,310
Reinforcement Bars, Epoxy Coated			Pound	340
	ion Bolt	S	Each	28



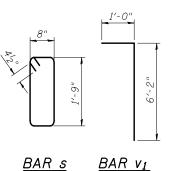


<u>BAR as</u>





<u>BAR h30(E)</u>



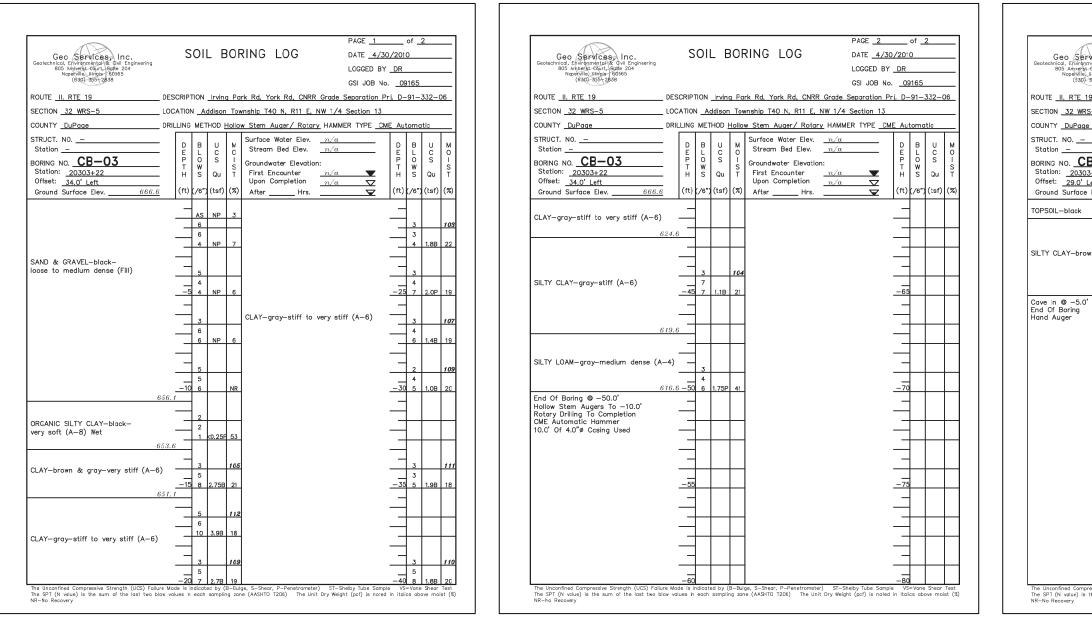
 DETAILS
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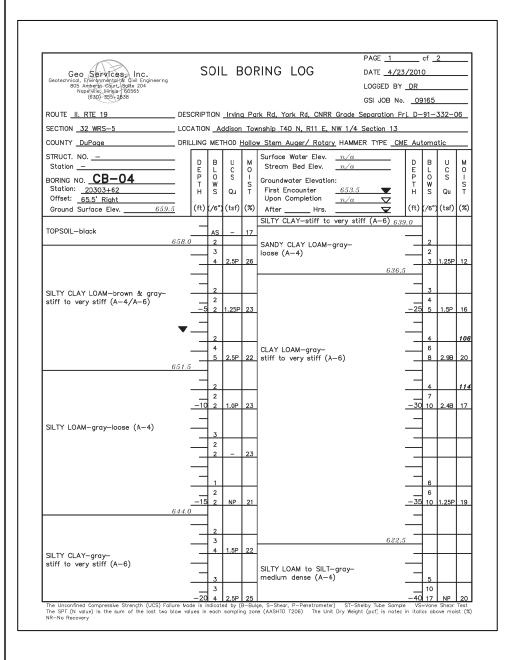
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HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - LGP	REVISED -		SHEET NO. 4 OF 5 SHE

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $														
LIGGED BY DR GSI JOB NG. 00165 DESCRIPTION Inducer Rd. York Rd. OKRE Grade Separation Pri. D -91-332-06 DILING METHOD Hand Auger HAWER TYPE CME Automatic DRILING METHOD Hand Auger HAWER TYPE CME Automatic DRUNG CONDITION (F) (%) (%) Atter HAWER TYPE CME Automatic GSD.6 AS - 22 AS 0.75P 25 AS 0.75P 25 HAWER TYPE CME Automatic HAWER TYPE CME Automatic HAWER TYPE CME Automatic HAWER TYPE CME Automatic H	\geq		<u> </u>	-			00						\neg	
DESCRIPTION Irving Park Rd, York Rd, CNRR Grade Separation Pri D-91-332-06 DESCRIPTION Addison Township T40 N, R11 E, NW 1/4 Section 13 DRILLING METHOD Hand Auger HAMMER TYPE CME Automatic DRILLING METHOD Hand Auger Groundwater Elevelian: The bill of stream Bed Elev. $\frac{n/a}{2/a}$ $\frac{p}{F}$ $\frac{B}{U}$ $\frac{U}{S}$ $\frac{N}{S}$ The Stream Bed Elev. $\frac{n/a}{2/a}$ $\frac{p}{F}$ $\frac{B}{U}$ $\frac{U}{S}$ $\frac{N}{S}$ $\frac{Stream Bed Elev. \frac{n}{2/a} \frac{N}{4} \frac{F}{K} \frac{L}{S} \frac{S}{S} $	ces, Inc.	S	υII	_ E	OR	ing l	_OG							
DESCRIPTION Irving Park Rd, York Rd, CNRR Grade Separation Pri D-91-332-06 DESCRIPTION Addison Township T40 N, R11 E, NW 1/4 Section 13 DRILLING METHOD Hand Auger HAMMER TYPE CME Automatic DRILLING METHOD Hand Auger Groundwater Elevelian: The bill of stream Bed Elev. $\frac{n/a}{2/a}$ $\frac{p}{F}$ $\frac{B}{U}$ $\frac{U}{S}$ $\frac{N}{S}$ The Stream Bed Elev. $\frac{n/a}{2/a}$ $\frac{p}{F}$ $\frac{B}{U}$ $\frac{U}{S}$ $\frac{N}{S}$ $\frac{Stream Bed Elev. \frac{n}{2/a} \frac{N}{4} \frac{F}{K} \frac{L}{S} \frac{S}{S} $	urt, Suite 204 bis 60565 2838										105		-	
b LOCATION Addison Township T40 N, R11 E, NW 1/4 Section 13 DRILLING METHOD Hand Auaer HAMMER TYPE <u>CME Automatic</u> The b c s s Stream Bed Elev. $\frac{n/a}{n/a}$ $\frac{D}{P}$ $\frac{B}{V}$ $\frac{U}{C}$ $\frac{N}{O}$ Stream Bed Elev. $\frac{n/a}{n/a}$ $\frac{D}{P}$ $\frac{B}{V}$ $\frac{U}{C}$ $\frac{N}{O}$ $\frac{659.6}{10}$ As $\frac{1}{29}$ $\frac{29}{10}$ $\frac{659.6}{10}$ $\frac{1}{10}$		CUDID1		India	Dad	Rd Var		Grade				32-0		
DRILLING METHOD Hand Auer HAMMER TYPE <u>CME Automatic</u> DRILLING METHOD Hand Auer HAMMER TYPE <u>CME Automatic</u> $\frac{D}{P}$ B U M $\frac{D}{P}$ B D M $\frac{D}{P}$ C H M M \frac											31-2	<u>-22-(</u>	<u>,,,</u>	
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$\& \operatorname{gray}(A-6)$ AS 0.75P 25 AS 0.75P 25 -AS 0.75P 25 -AS 0.75P 25 -S AS - 15 -20 -40		(ft)	(/6")	(tsf)	(%)	After	Hrs.			(ft)	(/6")	(tsf)	(%)	
$\& \operatorname{gray}(A-6)$ AS 0.75P 25 AS 0.75P 25 -AS 0.75P 25 -AS 0.75P 25 -S AS - 15 -20 -40	650	.6 –	_ ۸	_	29					_				
$\& \operatorname{gray} (A-6)$ AS 0.75P 25 655.6 = S AS = 15 -20 -40 -40 -20 -40 -20 -40 -20 -40 -20 -40 -20 -40 -20	000	_	~3							_	\square		\square	
& gray (A=6)	\bigtriangledown	′—		0.75P	25									
	& gray (A-6)			317 01						_			\square	
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ve Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Sheiby Tube Sample VS=Yane Shear Test sum of the last two blow values in each sampling zone (AASHTD 1206) The Unt Dry Weght (pcf) is noted in Italics above moist (\$)		15	\mid		\square					35			\vdash	
ve Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS=Vane Shear Test sum of the last two blow values in each sampling zone (AASHTD T206) The Unit Dry Weght (pcf) is noted in Italics above metst (\$)										_				
20 -20 -20 -20 -20 -20 -20 -20 -		_	\mid										\vdash	
re Strength (UCS) Follure Model is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS=Vone Shear Test sum of the last two blow values in each sampling zone (AASHTD T206) The Unit Dry Weght (pcf) is noted in Italics above moist (%)										_				
ve Strength (UCS) Follure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Sheiby Tube Sample VS=Vane Shear Test sum of the last two blow values in each sampling zone (AASHTD T206) The Unit Dry Weght (pcf) is noted in Italics above moist (%)														
ye Strength (UCS) Follure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample vS=Yane Shear Test sum of the last two blow values in each sampling zone (AASHTD T206) The Unit Dry Weght (pcf) is noted in italics above moist (%)													\square	
ve Strength (UCS) Failure Mode is indicated by (8-Bulçe, S-Shear, P-Penetrometer) ST-Shelby Tube Sampie VS=Vane Shear Test sum of the last two blow values in each sampling zone (AASHTD T2OB) The Unit Dry Weght (pcr) is noted in italics above moist (%)		-20								-40				
	ive Strength (UCS) Failure M sum of the last two blows	lode is in alues in	ndicate each	ed by (l samplir	B-Bulge	, S-Shear, F (AASHTD T2	P-Penetrometer 206) The Unit) ST-Sh Dry Weigh	elby Tube Sar t (pcf) is not	nple VS	=Vane	Shear ve moi	Test st (%)	
						F.A.II		COTTO:	1		11.172		τοται	S
[F.A.IL]	.0GS					RTE.			1			5	SHEETS	
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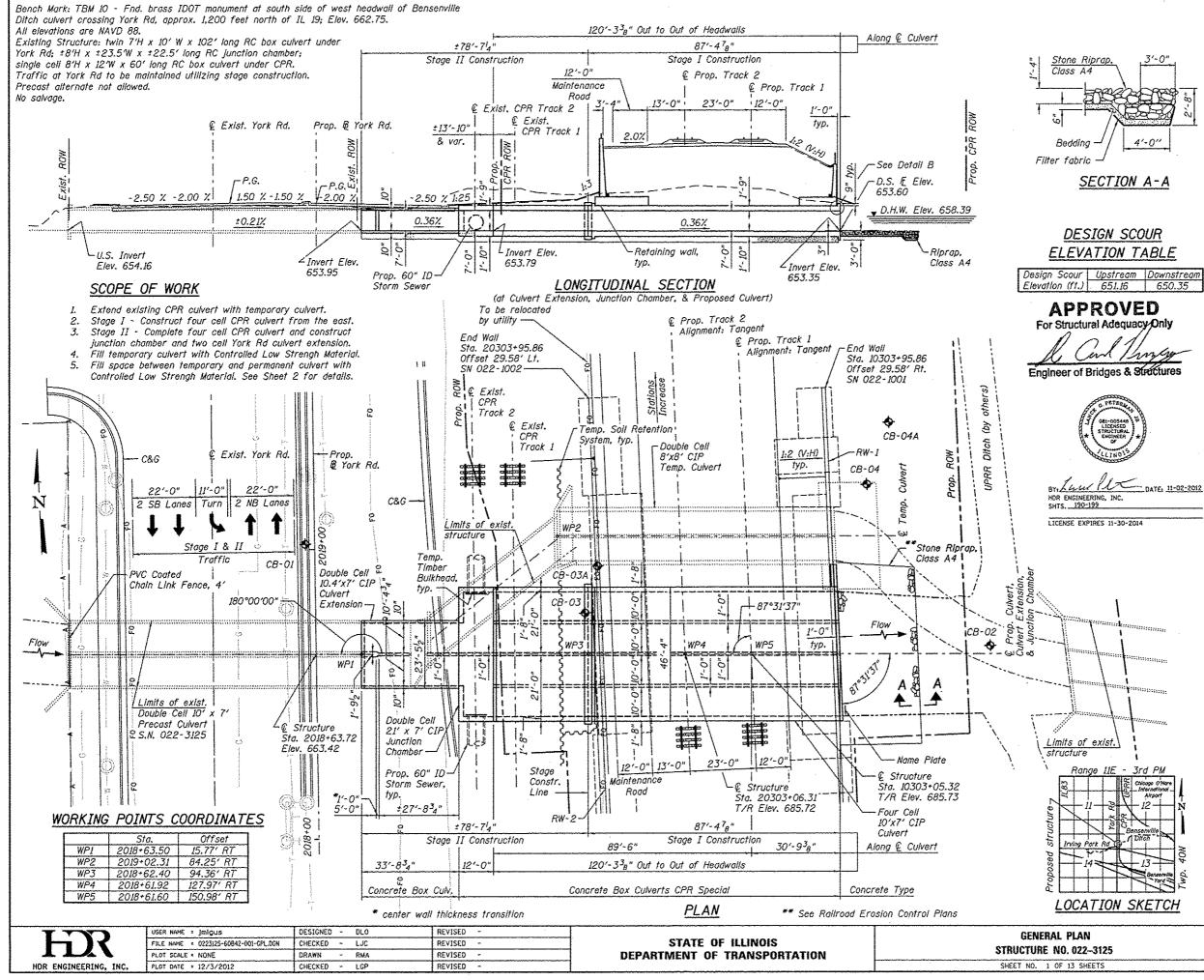


Geo Services- Inc. Geotechnical, Environmental-& Gwi Engineering Negarilla, Januar 50555 (330)-330, 2046	SOIL BORING LOG DATE _4,		Geo Services, Inc. SOIL Gestechnical, Environmental & Kow Engineering Noadwin, Jumps / 20555 (639) 2057	BORING LOG DATE	<u>1</u> of <u>1</u> <u>5/5/2010</u> D BY <u>DR</u> DB No. <u>09165</u>
ROUTE II. RTE 19 D	DESCRIPTION Irving Park Rd, York Rd, CNRR Grade Separation	Prj. D-91-332-06	ROUTE II. RTE 19 DESCRIPTION Ir	<u>ving Park Rd. York Rd. CNRR Grade Separa</u>	ion Prj. D-91-332-06
	OCATION Addison Township T40 N, R11 E, NW 1/4 Section 1			son Township T40 N, R11 E, NW 1/4 Sectio	
	RILLING METHOD Hollow Stem Auger/ Rotary HAMMER TYPE _		COUNTY DuPage DRILLING METHO		E <u>CME Automatic</u>
STRUCT. NO	Surface Water Flow m/a		STRUCT NO -	Surface Water Flex m/a	
Station	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	D B U M E L C O P O S I T W S H S Qu T (ft) (/6") (tsf) (%)	Station D B BORING NO. CB-O4A P O T W T W	J M Stream Bed Elev. <u>n/a</u> G Groundwater Elevation: S First Encounter <u>Dry</u> Upon Completion <u>Dry</u>	$ \begin{array}{c c} D & B & U & M \\ E & L & C & 0 \\ P & 0 & S & I \\ T & W & S \\ H & S & Qu & T \\ \hline \end{array} $
			SANDY LOAM dark brown & gray (Fill)	- 27	
SILTY LOAM to SILT-gray- mecium dense (A-4)			SILTY CLAY-brown & gray (A-6)	25P 29	
End Of Boring @ -45.0'	4.5 -45 7 2.5P 22			- 17	
Hollow Stem Augers To -10.0' Rotary Drilling To Completion CME Automatic Hammer 10.0' Of 4.0"ø Ccsing Used			SILTY LOAM-brown (A-4)		
			647.3	- 19	
			SILTY LOAM-gray (A-4) 645.3 -10 AS End Of Boring © -10.0'	- 16	
			Hand Auger	+-	
					-
				+-	
				+-	
The Unconfined Compressive Strength (UCS) Failure The SPT (N vclue) is the sum of the last two blow NR-No Recovery	-60 Mode is indicated by (8-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sa values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is no	-80 nple VS=Vane Shear Test ed in italics above moist (%)	The Unconfined Compressive Strength (UCS) Foilure Mode is indicated The SPT (N value) is the sum of the last two blov values in each ser NR-No Recovery	y (B-Bulge, S-Shear, P-Penetromster) ST-Shelby Tub npling zone (AASHTO T206) The Jnit Dry Weight (psf) i	
NK-NO Kecovery			NK-NO Kecovery		
	STATE OF ILLINOIS		SOIL BORING LOGS	F.A.U. SECTION	COUNTY TOTAL S

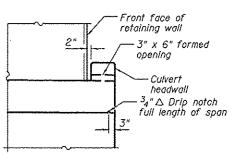
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35:4		PLOT SCALE = NONE	DRAWN - RMA	REVISED -	
$\geq \Xi$	HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - LGP	REVISED -	



LOGS	RTE.	SECTION		COUNTY	SHEETS	NO.
T UNDER CPR	1321	32VB		DU PAGE	388	189
I ONDER OFR				CONTRACT	NO. 6	OW01
5 SHEETS		ILLINOIS	FED. AI	D PROJECT		



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DETAIL B

LOADING E100 (Four Cell Culvert)

LOADING HS20-44

Allow 50 psf for future wearing surface. (Culvert Extension & Junction Chamber)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.089g Design Spectral Acceleration at 0.2 sec. (Sps) = 0.152g Soil Site Class = D

DESIGN SPECIFICATIONS

2010 AREMA Manual for Railway Engineering 2006 Canadian Pacific Railway Reaulrements for Design of Steel and Concrete Bridges 2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

DESIGN STRESSES FIELD UNITS

f'o = 3,500 psi (Culvert Extension) f'c = 4,500 psi (Junction Chamber & Four Cell Culvert) fy = 60,000 psi (Reinforcement)

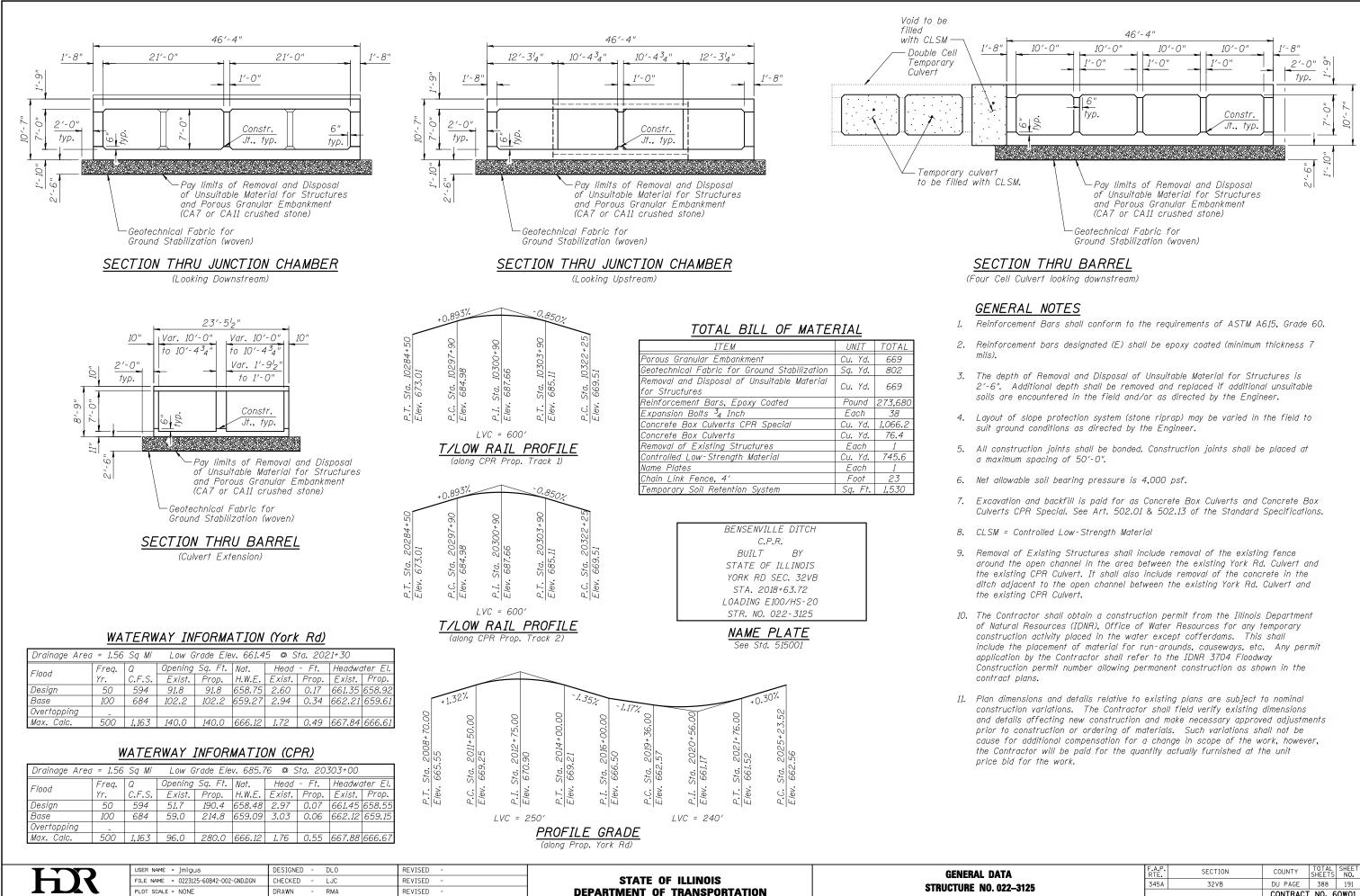
INDEX OF SHEETS

General Plan

1.

- 2. General Data
- 3, Removal Details
- 4. Double Cell Box Culvert Extension Details 5. Double Cell Box Culvert Extension Details
- 6. Junction Chamber Details
- Junction Chamber Details 7.
- 4 Cell Box Culvert Details 8.
- 9. 4 Cell Box Culvert Details
- 10. 4 Cell Box Culvert Details
- 11. Soll Boring Logs
- 12. Soll Boring Logs 13. Soil Boring Logs
- GENERAL PLAN YORK RD. & CPR OVER BENSENVILLE DITCH PUBLIC WATERS F.A.P. 345A - SEC. 32VB DU PAGE COUNTY STATION 2018+63.72 STRUCTURE NO. 022-3125

PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
. 022–3125	345A	32V8	DU PAGE	388	190
, ULL-JILJ			CONTRACT		OW01
13 SHEETS		ILLINOIS FED. AI	D PROJECT		



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HDR ENGINEERING. INC.

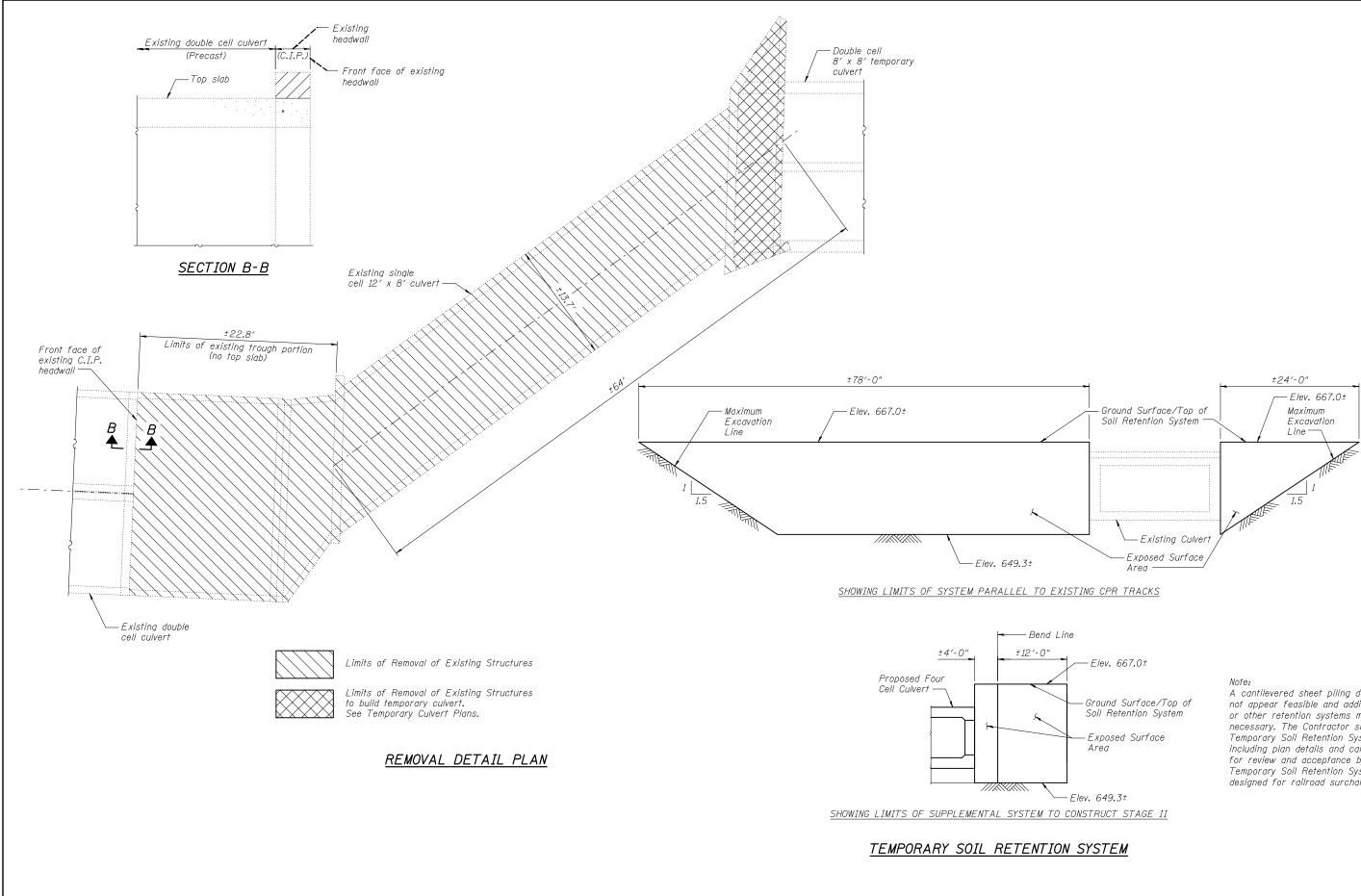
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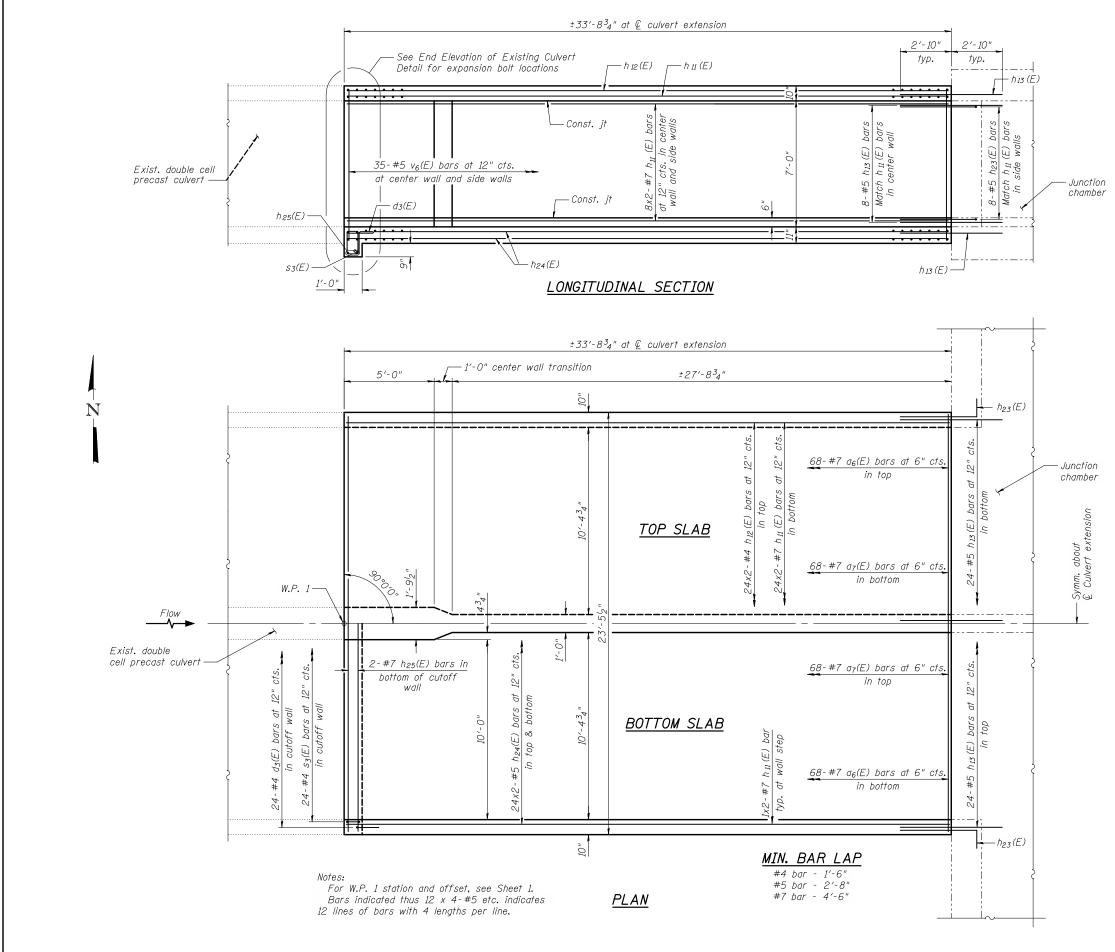
CONTRACT NO. 60W01							
STRUCTURE NU. UZZ-3125 CONTRACT NO. 60W01	GENERAL DATA	F.A.P. RTE.	SECTION	COUNTY			
CONTRACT NO. 60W01	STRUCTURE NO. 022–3125		32VB	DU PAGE	388	191	
				CONTRACT	NO. 6	OW01	
SHEET NO. 2 OF IS SHEETS ILLINOIS FED. AID PROJECT	SHEET NO. 2 OF 13 SHEETS	ILLINOIS FED. AID PROJECT					



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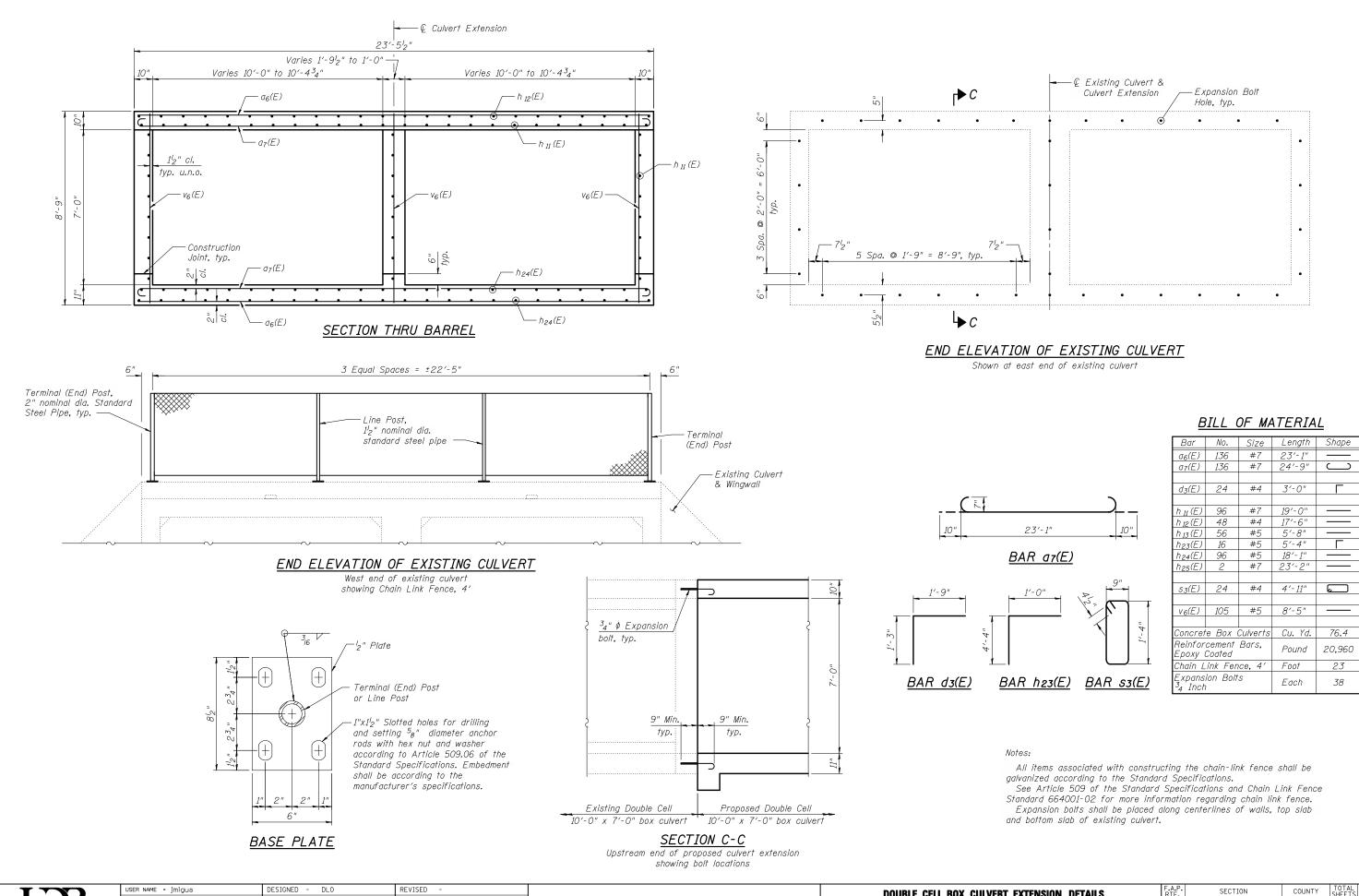
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a Temporary Soil Retention System design including plan details and calculations for review and acceptance by the Engineer. Temporary Soil Retention System shall be designed for railroad surcharge.

DETAILS	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
). 022–3125	345A	32VB	DU PAGE	388	192
J. UZZ—J1ZJ			CONTRACT	NO. 6	OW01
13 SHEETS		ILLINOIS FED. AI	D PROJECT		



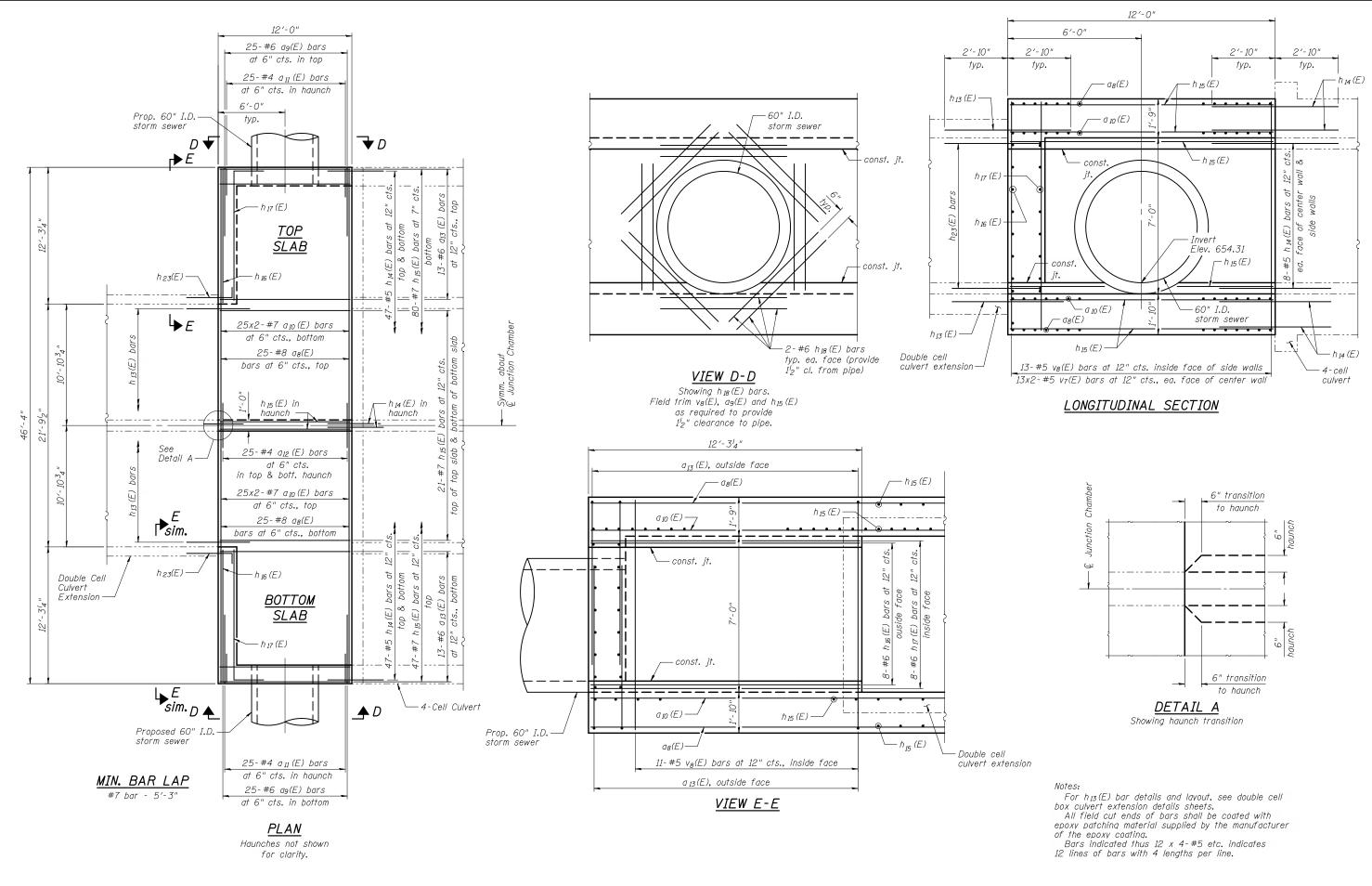
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HDR ENGINEERING, INC.	PLOT SCALE = NONE PLOT DATE = 11/2/2012	DRAWN - CHECKED -	RMA LGP	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. 4 OF 13 SHEETS		ILLINOIS FED. A	CONTRACT NO. 60W01 ID PROJECT

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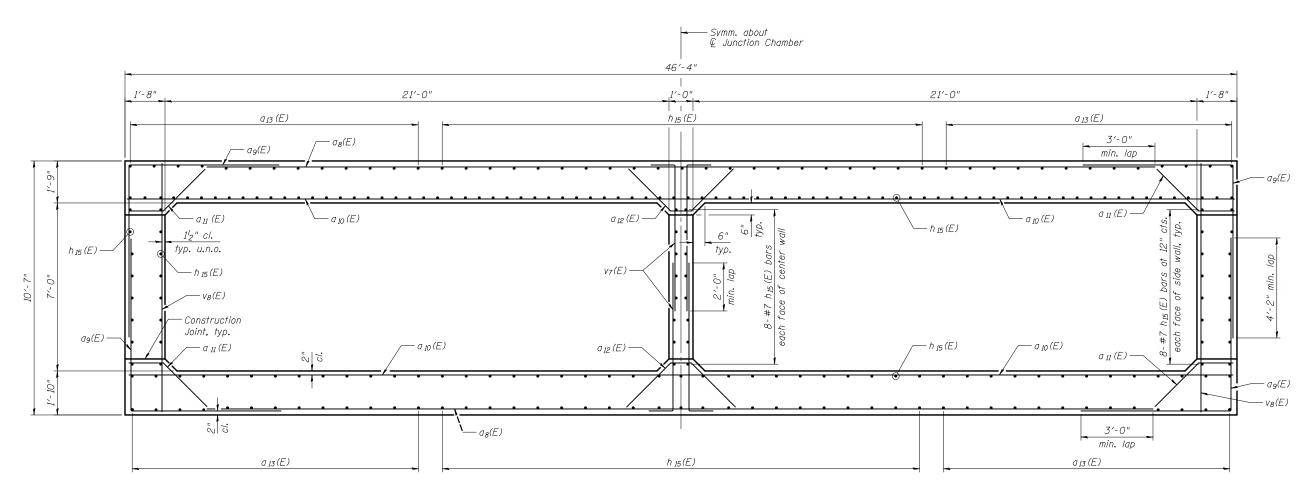
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	USER NAME = jmigus	DESIGNED - DLO	REVISED -		DOUBLE CELL BOX CULVERT EXTENSION DETAILS	F.A.P. RTE	SECTION	COUNTY TOTAL SHE SHEETS NO
	FILE NAME = 0223125-60B42-005-EDT.DGN PLOT SCALE = NONE	CHECKED - LJC DRAWN - RMA	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 022–3125	345A	32VB	DU PAGE 388 19 CONTRACT NO. 60W0
HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - LGP	REVISED -		SHEET NO. 5 OF 13 SHEETS	<u> </u>	ILLINOIS FE	D. AID PROJECT

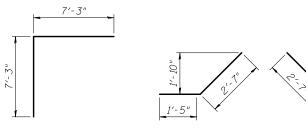


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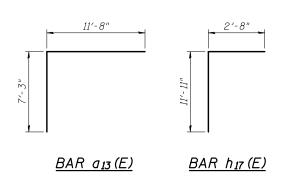
II/2/2012 II:29:02 AM



SECTION THRU JUNCTION CHAMBER



<u>BAR a9(E)</u> <u>BAR a11(E)</u>

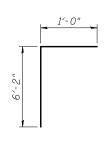


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HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - LGP	REVISED -		SHEET NO. 7 OF 13 SHEETS		ILLINOIS FED. AID PROJECT

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10" 10"

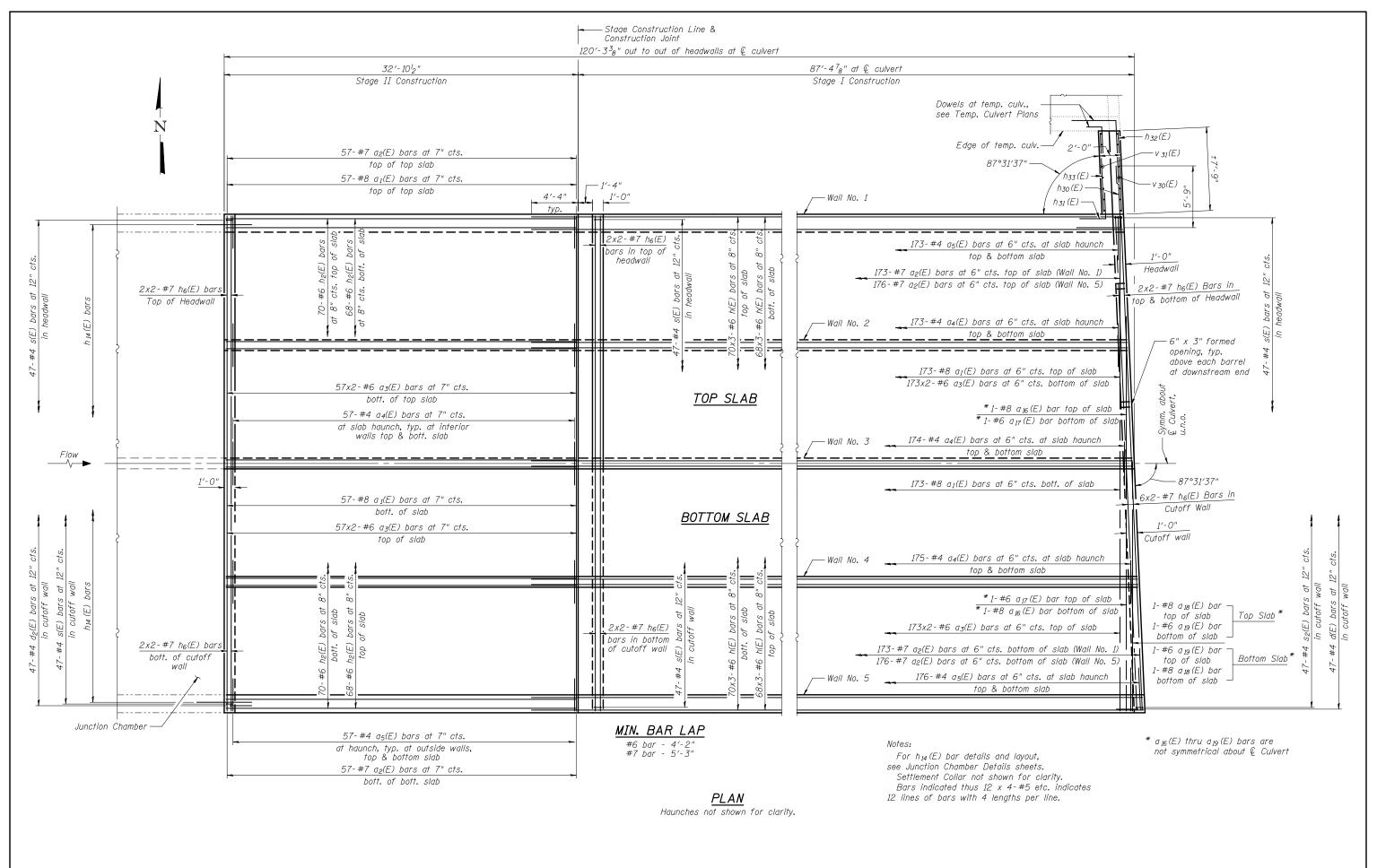
<u>BAR a12(E)</u>



Bar	No.	Size	Length	Shape
<i>а</i> 8(Е)	50	#8	37′-9″	
a ₉ (E)	100	#6	14′-6″	Γ
a ₁₀ (E)	100	#7	25′-9″	_
a ₁₁ (E)	100	#4	4'-0"	
a ₁₂ (E)	50	#4	6′-0″	\searrow
a ₁₃ (E)	52	#6	18′-11″	
h ₁₄ (E)	236	#5	5′-8″	
h ₁₅ (E)	217	#7	11'-8"	
h ₁₆ (E)	16	#6	11'- 11"	
h ₁₇ (E)	16	#6	14′-7″	
h ₁₈ (E)	64	#6	5′-8″	
v7(E)	52	#5	7′-2″	L
v ₈ (E)	48	#5	10′-3″	
Concret	e Box (Culverts	Cu. Yd.	93.4
CPR Sp	ecial		<i>cu</i> , <i>fu</i> ,	55.4
Reinfor	cement	Bars,	Pound	23,080
Ероху (Coated		, ound	20,000

BILL OF MATERIAL

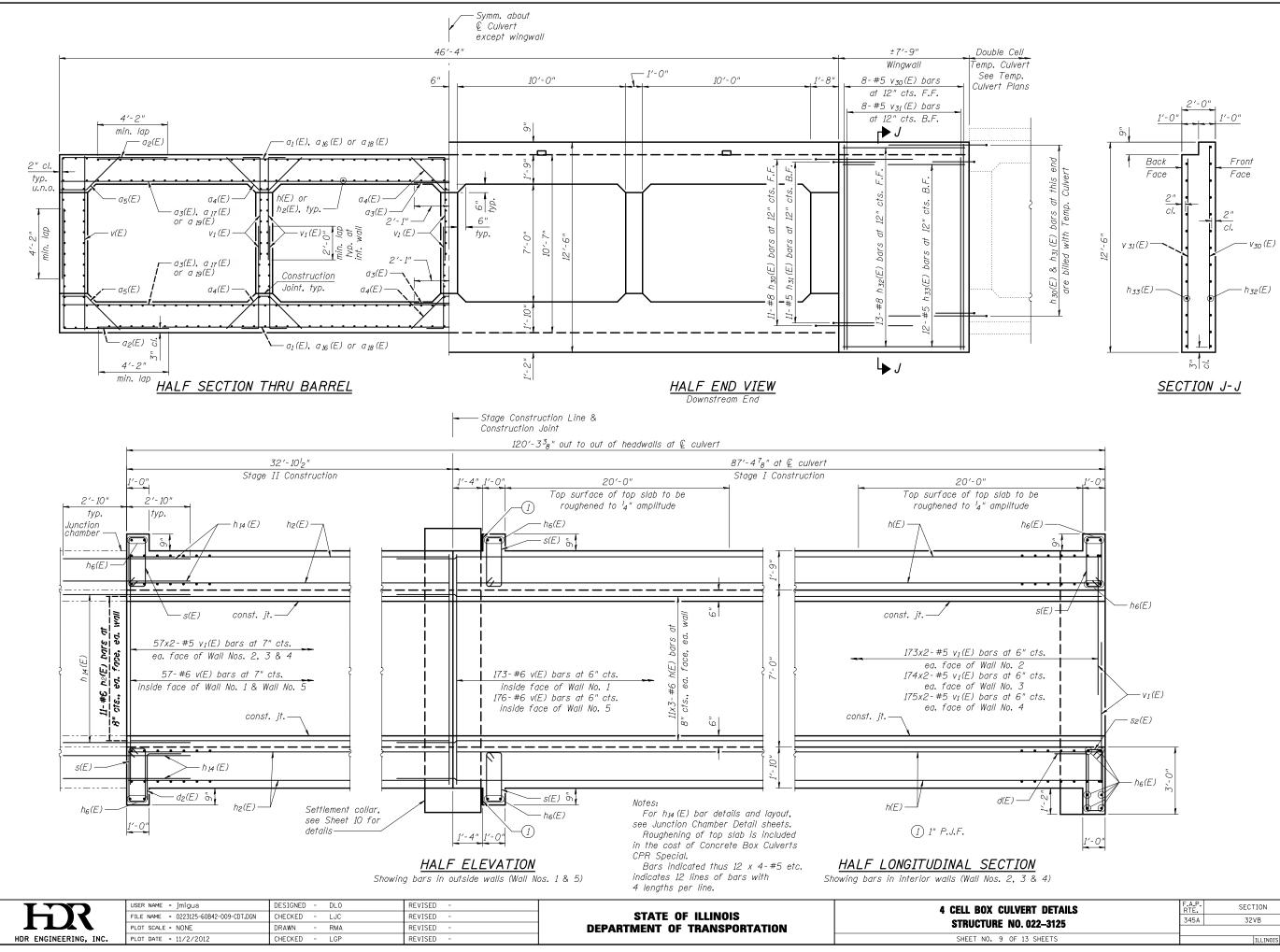
<u>BAR v7(E)</u>



DESIGNED - DLO REVISED SER NAME = jmigus 4 CELL BOX CULV **STATE OF ILLINOIS** FILE NAME = 0223125-60B42-008-CDT.DGN CHECKED - LJC REVISED STRUCTURE NO. LOT SCALE = NONE ORAWN RMA REVISED **DEPARTMENT OF TRANSPORTATION** HDR ENGINEERING. INC. SHEET NO. 8 OF PLOT DATE = 11/2/2012 CHECKED - LGP REVISED

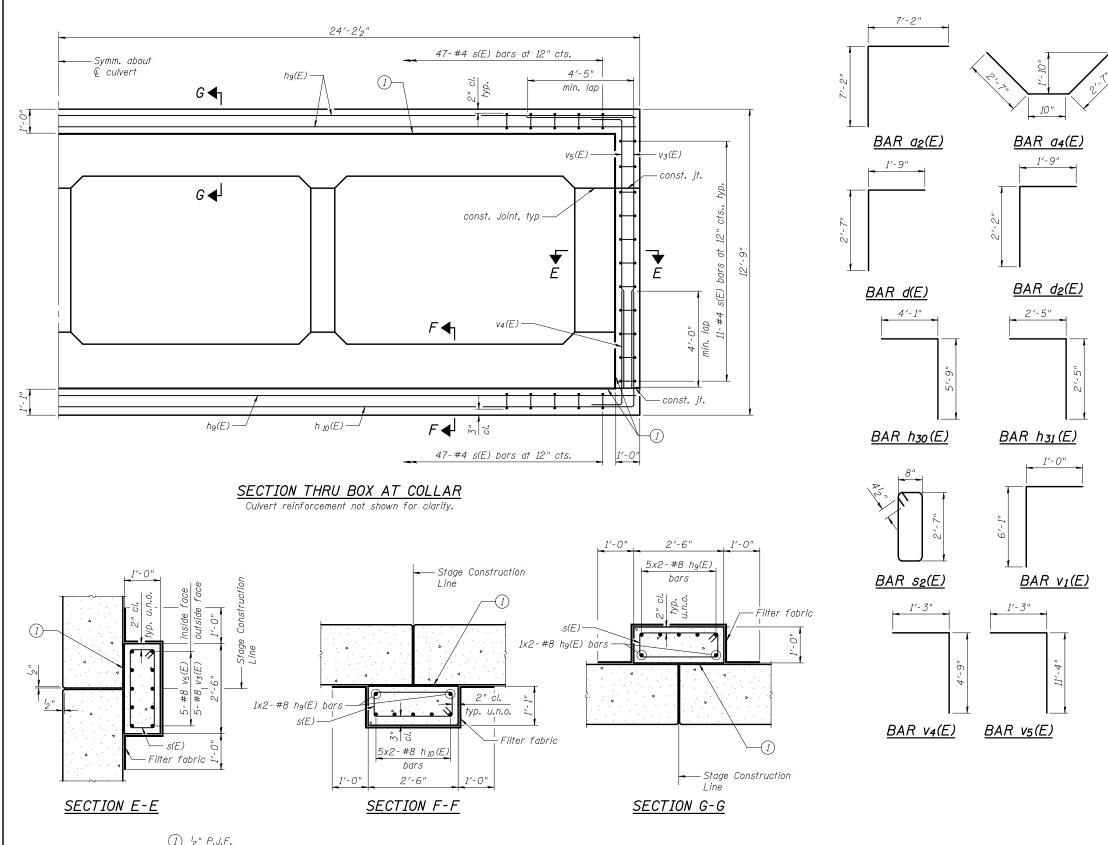
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/ERT DETAILS	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
), 022–3125	345A	32VB	DU PAGE	388	197
J. UZZ—J1ZJ			CONTRACT	NO. 6	OW01
13 SHEETS		ILLINOIS FED. A	ID PROJECT		



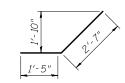
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ERT DETAILS	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
. 022–3125	345A	32VB	DU PAGE	388	198
. 522–5125			CONTRACT	NO. 6	OW01
13 SHEETS		ILLINOIS FED. AI	D PROJECT		



 ¹/₂" P.J.F. P.J.F. and filter fabric included in the cost of Concrete Box Culverts CPR Special

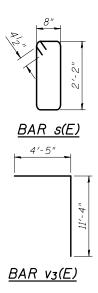
	USER NAME = jmigus	DESIGNED - DLO	REVISED -		4 CELL BOX CULVERT DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET
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HDR ENGINEERING, INC.	PLOT SCALE = NONE PLOT DATE = 11/2/2012	DRAWN - RMA CHECKED - LGP	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. 10 OF 13 SHEETS	-	ILLINOIS FED. A	CONTRACT	T NO. 60W01



<u>BAR a5(E)</u>

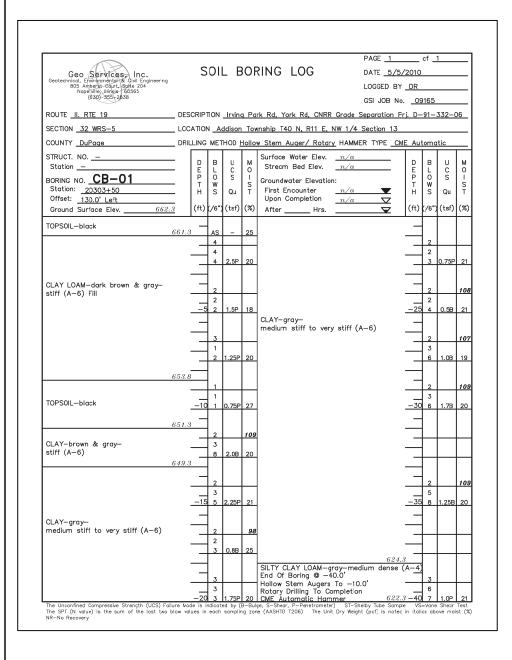


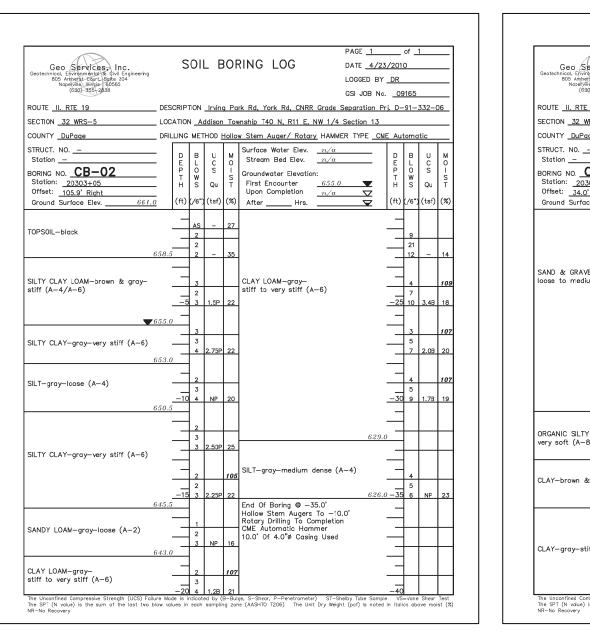
<u>BAR h10(E)</u>



-				_
Bar	No.	Size	Length	Shape
a1(E)	460	#8	40'-0"	
a2(E)	926	#7	14′-4″	
a3(E)	920	#6	25′-1″	
a4(E)	1,386	#4	6'-0"	
a5(E)	926	#4	4'-0"	
a 16 (E)	2	#8	29'-4"	
a 17 (E)	2	#6	32′-5″	
a 18 (E)	2	#8	15′-10″	
a 19 (E)	2	#6	18′-11″	
d(E)	47	#4	4'-4"	
d2(E)	47	#4	3′-11″	
h(E)	1158	#6	32′-3″	<u> </u>
h2(E)	386	#6	32′-6″	<u> </u>
ћ6(Е)	36	#7	25′-8″	<u> </u>
hg(E)	18	#8	26′-8″	<u> </u>
h 10 (E)	10	#8	31′-5″	
h30(E)	11	#8	9′-10″	
h 31(E)	11	#5	4′-10″	
h32(E)	13	#8	7′-5″	
h33(E)	12	#5	7′-5″	
s(E)	351	#4	6′-5″	
s2(E)	47	#4	7'-3"	
v(E)	463	#6	10'-2"	
v1(E)	2,772	#5	7'-1"	
v3(E)	10	#8	15′-9″	
v4(E)	10	#8	6'-0"	
v5(E)	10	#8	12′-7″	
v 30(E)	8	#5	12′-4″	
v 31(E)	8	#5	11'- 7"	
Concret CPR Sp	e Box (pecial	Culverts	Cu. Yd.	972.8
Reinfor Epoxy (cement Coated	Bars,	Pound	229,640

BILL OF MATERIAL





11/2/2012 11:29:50 AM

	USER NAME = jmigus	DESIGNED - DLO	REVISED -		SOIL BORING LOGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	HEET
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HDR ENGINEERING, INC.	PLOT DATE = 11/2/2012	CHECKED - LGP	REVISED -		SHEET NO. 11 OF 13 SHEETS		ILLINOIS FED.	AID PROJECT		

~						PAGE 1	0	f _2		_]
vices, Inc.	S	OII	LΒ	OF	RING LOG	DATE _4/30	0/2010			_
ices, Inc. intol & Givil Engineering Sourt, Saits 204 linois 60565 155-2838						LOGGED BY	DR			_
355-2838						GSI JOB No	. <u>091</u>	65		_
DES	SCRIPT	FION	Irving	<u>Pa</u>	rk Rd, York Rd, CNRR Grade	Separation P	<u>rj. D–9</u>	91-3	32-0	6
<u>-5</u> LOC	CATION	N <u>A</u>	ddison	Тои	vnship T40 N, R11 E, NW 1/4	Section 13				_
DRI	LLING	MET	HOD H	lollo	w Stem Auger/ Rotary HAMM	ER TYPE <u>CN</u>	IE Auto	mat	ic	_
	D	в	C	м	Surface Water Elev. <u>n/a</u>		D	в	U	м
3-03	Ē	Ĺ	Č S	0 I	Stream Bed Elev. <u>n/a</u>		E	L 0	Č S	ö
+22	Т Н	W S	Qu	S T	Groundwater Elevation: First Encounter <u>n/a</u>	T	Т	w s	Qu	S T
eft					Upon Completion n/a	∇				
Elev. <u>666.6</u>	(ft)	(/6")	(tsf)	(%)	After Hrs	\	(ft)(,	/6')((tsf)	(%)
		AS	NP	3						
	_	6					7	3		103
		6 4	NP	7			-	3 4	1.8B	22
		· ·					\square			
-black— dense (Fill)	_	5					-	3		
		4						4		
	5	4	NP	6			-25	7	2.0P	19
	_					(
		3			CLAY-gray-stiff to very stin	rr (A—6)	7	3		107
	_	6 6	NP	6				4 6	1.4B	19
									-	
	_	5					-	2		109
		5						4		
656.	<u>-10</u> 1	6		NR			-30	5	1.0B	20
000.										
LAY-black-	_	2					+	+		
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653.0	5						\neg	Τ	T	
	_	3		105			-	3		111
gray—very stiff (A—6)		5						3		
651.	<u>15</u>	8	<u>2.75B</u>	21			-35	5	1.9B	18
007.										
		5		112			+	+	_	_
		6 10	3.9B	18						
to very stiff (A-6)							\neg			
	_	3		109			-	3		110
		5						5		
assive Strength (UCS) Failure Mo	<u>-20</u> de is in	7 ndicat	2.7B ed by (I	19 3-Bul	ge, S—Shear, P—Penetrometer) ST—Sh e (AASHTO T206) The Unit Dry Weigh	nelby Tube Sampl	-40	Vane !	1.8B Shear 1	
re sum of the last two blow vo	lues in	each	samplin	ig zon	e (AASHTO T206) The Unit Dry Weigh	nt (pof) is noted	in italics	abov	ve mois	t (%)
					F.A.P. SECTION		COUNT		TO	TAL
					L' SECTION		COLINIT	ΓV	110	I ML