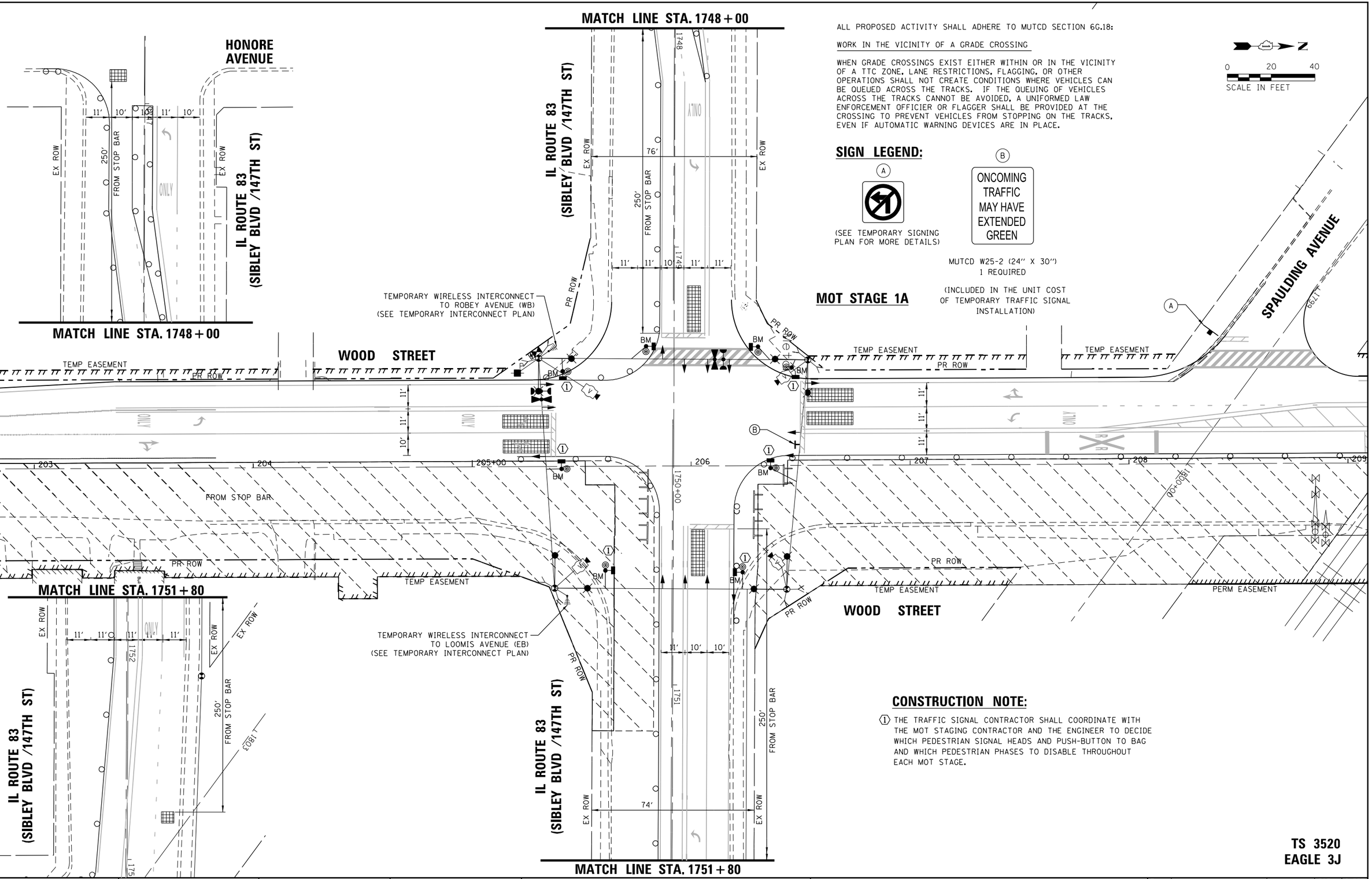

ALL PROPOSED ACTIVITY SHALL ADHERE TO MUTCD SECTION 6G.18:

WORK IN THE VICINITY OF A GRADE CROSSING

WHEN GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TTC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUEUED ACROSS THE TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICIER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

0 20 40
SCALE IN FEET

SIGN LEGEND:

(A) (SEE TEMPORARY SIGNING PLAN FOR MORE DETAILS)

(B) ONCOMING TRAFFIC MAY HAVE EXTENDED GREEN

MUTCD W25-2 (24" X 30")
1 REQUIRED

(INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION)

CONSTRUCTION NOTE:

(1) THE TRAFFIC SIGNAL CONTRACTOR SHALL COORDINATE WITH THE MOT STAGING CONTRACTOR AND THE ENGINEER TO DECIDE WHICH PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTON TO BAG AND WHICH PEDESTRIAN PHASES TO DISABLE THROUGHOUT EACH MOT STAGE.

TS 3520
EAGLE 3J

TS SHT NO. 12

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CH'KD / NOTE BOOK NO. / BY / DATE

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9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

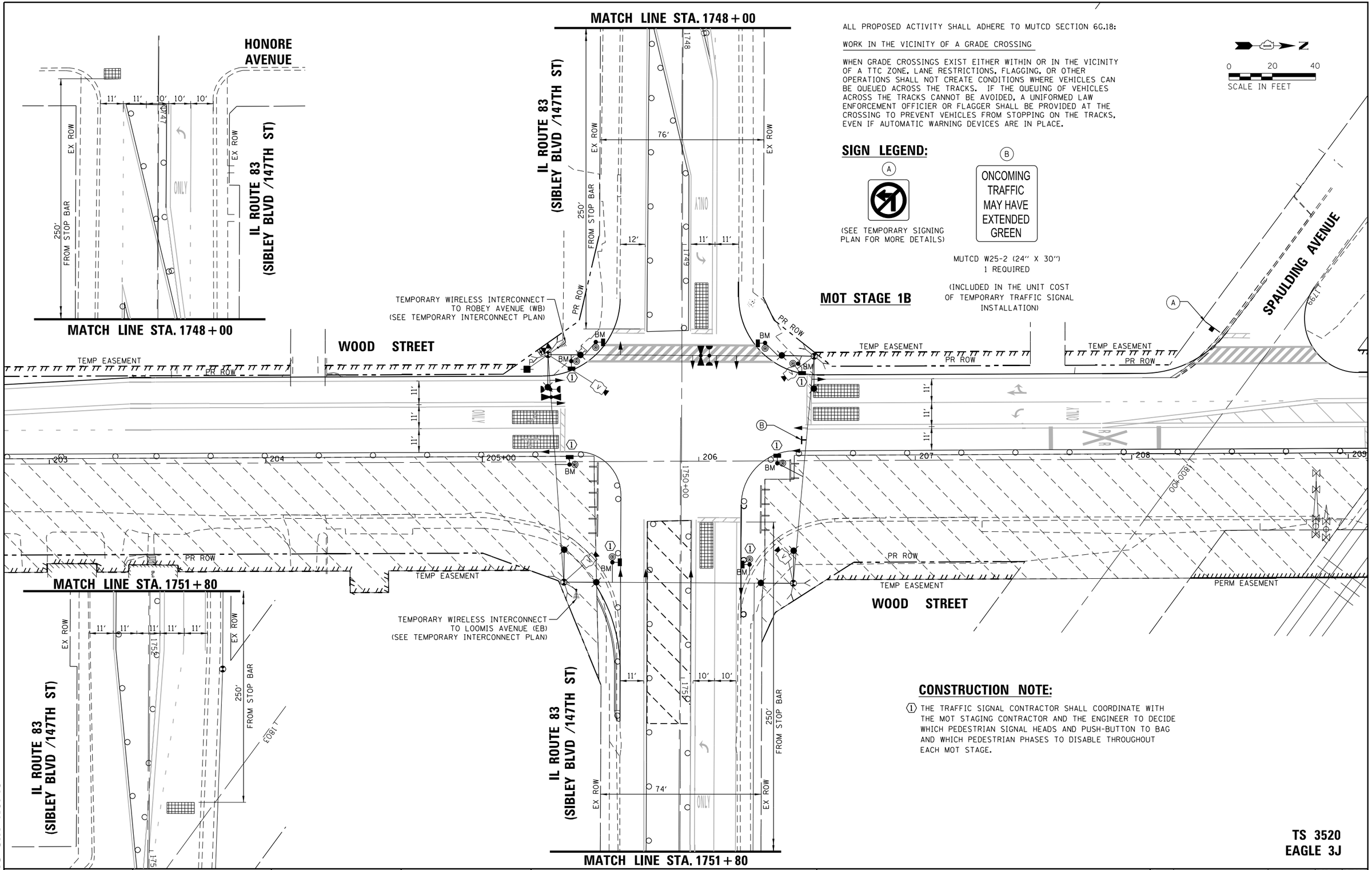
FILE NAME = N:\IDOT\150353\Traffic\Advance_Contract\AC_TS-147th_04_MOT Stage 1A.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
		DRAWN - FPB	REVISED -
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/28/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION
MOT STAGE 1A
WOOD STREET AND IL ROUTE 83 (SIBLEY BLVD /147TH ST)

SCALE: 1" = 40' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	301
		CONTRACT NO. 62P45		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ALL PROPOSED ACTIVITY SHALL ADHERE TO MUTCD SECTION 6G.18:

WORK IN THE VICINITY OF A GRADE CROSSING

WHEN GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TTC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUEUED ACROSS THE TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICIER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

SIGN LEGEND:

(A) (SEE TEMPORARY SIGNING PLAN FOR MORE DETAILS)

(B) ONCOMING TRAFFIC MAY HAVE EXTENDED GREEN

MUTCD W25-2 (24" X 30")
1 REQUIRED

(INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION)

0 20 40
SCALE IN FEET

CONSTRUCTION NOTE:

(1) THE TRAFFIC SIGNAL CONTRACTOR SHALL COORDINATE WITH THE MOT STAGING CONTRACTOR AND THE ENGINEER TO DECIDE WHICH PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTON TO BAG AND WHICH PEDESTRIAN PHASES TO DISABLE THROUGHOUT EACH MOT STAGE.

TS 3520
EAGLE 3J

TS SHT NO. 13

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Rosemont, Illinois 60018
(847) 823-0500

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — NOTE BOOK NO. — BY — DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CH'KD — NOTE BOOK NO. — BY — DATE

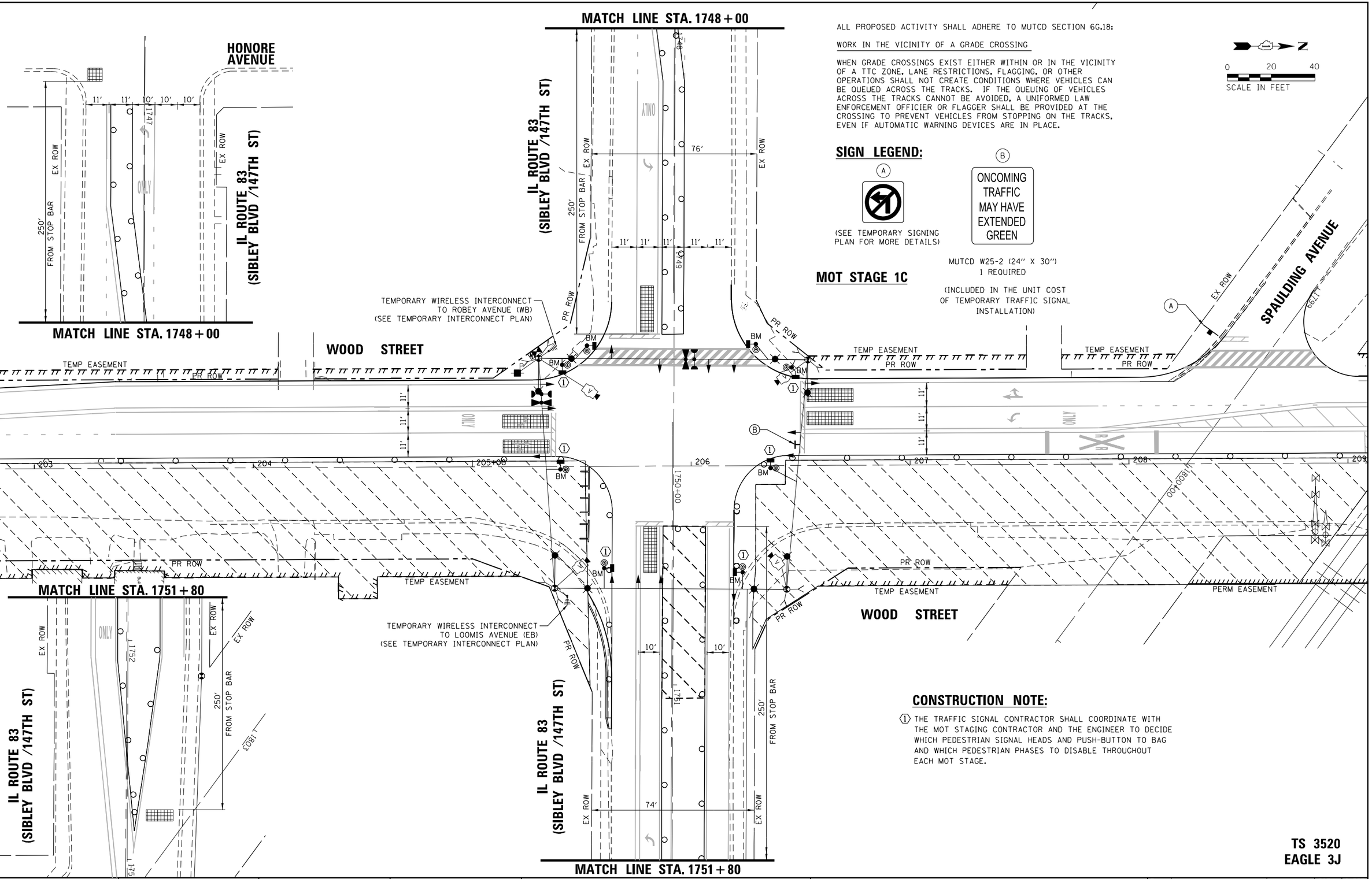
FILE NAME = N:\IDOT\150353\Traffic\Advance_Contract\AC_TS-147th_05_MOT Stage 1B.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
		DRAWN - FPB	REVISED -
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/28/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION
MOT STAGE 1B
WOOD STREET AND IL ROUTE 83 (SIBLEY BLVD /147TH ST)

SCALE: 1" = 40' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	302
		CONTRACT NO. 62P45		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ALL PROPOSED ACTIVITY SHALL ADHERE TO MUTCD SECTION 6G.18:

WORK IN THE VICINITY OF A GRADE CROSSING

WHEN GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TTC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUEUED ACROSS THE TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICIER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

N

0 20 40
SCALE IN FEET

SIGN LEGEND:

A

(SEE TEMPORARY SIGNING PLAN FOR MORE DETAILS)

B

ONCOMING TRAFFIC MAY HAVE EXTENDED GREEN

MUTCD W25-2 (24" X 30")
1 REQUIRED

(INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION)

MOT STAGE 1C

CONSTRUCTION NOTE:

1 THE TRAFFIC SIGNAL CONTRACTOR SHALL COORDINATE WITH THE MOT STAGING CONTRACTOR AND THE ENGINEER TO DECIDE WHICH PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTON TO BAG AND WHICH PEDESTRIAN PHASES TO DISABLE THROUGHOUT EACH MOT STAGE.

TS 3520
EAGLE 3J

TS SHT NO. 14

PLAN
NOTE BOOK NO. ____
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK NO. ____
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CH'KD
BY
DATE

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Rosemont, Illinois 60018
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FILE NAME = N:\IDOT\150353\Traffic\Advance_Contract\AC_TS-147th_06_MOT Stage 1C.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
		DRAWN - FPB	REVISED -
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/28/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION
MOT STAGE 1C
WOOD STREET AND IL ROUTE 83 (SIBLEY BLVD /147TH ST)

SCALE: 1" = 40' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	303
		CONTRACT NO. 62P45		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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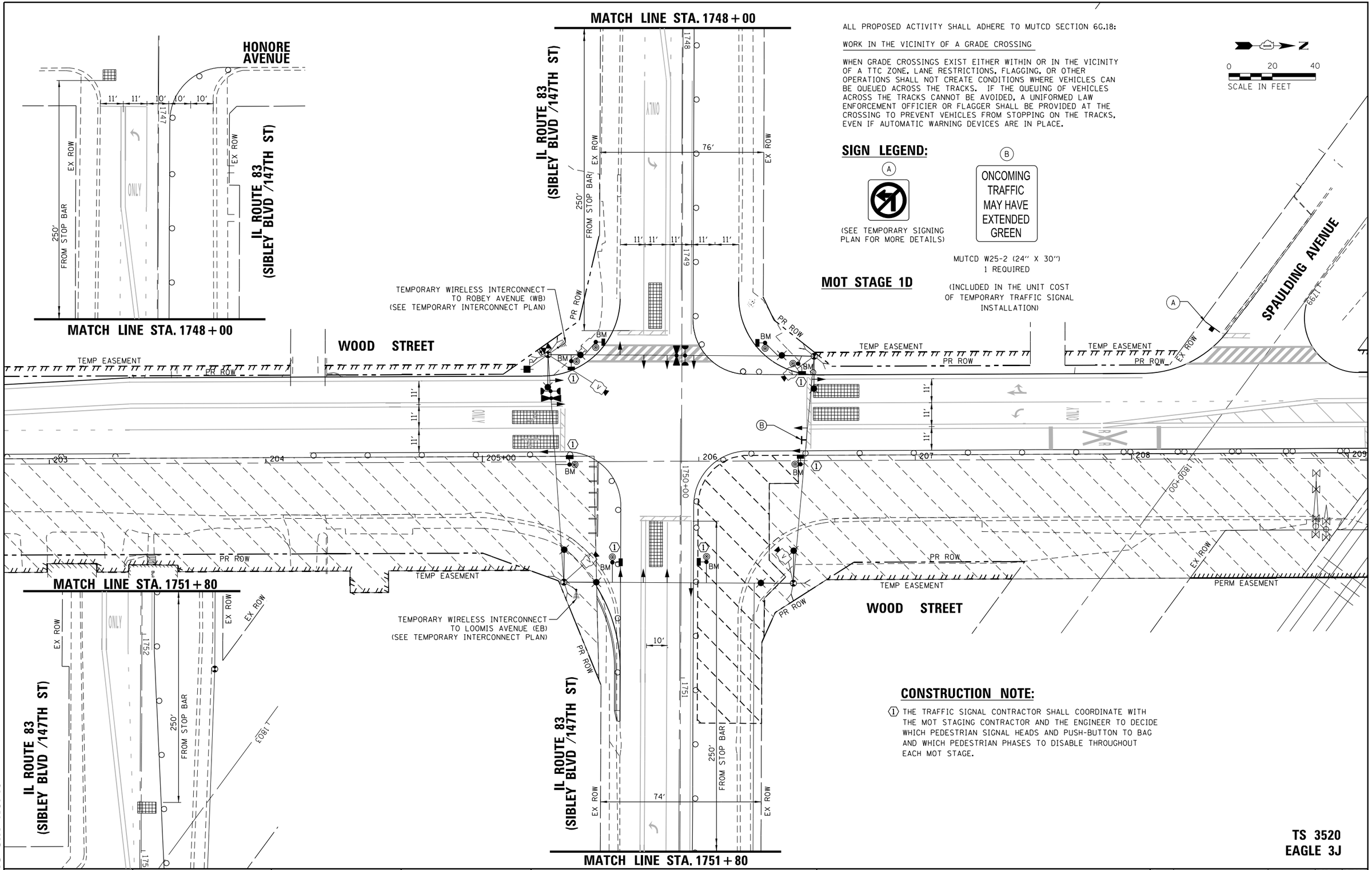
Rosemont, Illinois 60018
(847) 823-0500

PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
C-ADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
BY
DATE

TS SHT NO. 15



ALL PROPOSED ACTIVITY SHALL ADHERE TO MUTCD SECTION 6G.18:

WORK IN THE VICINITY OF A GRADE CROSSING

WHEN GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TTC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUEUED ACROSS THE TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICIER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

SIGN LEGEND:

(A)

(SEE TEMPORARY SIGNING PLAN FOR MORE DETAILS)

(B)

MUTCD W25-2 (24″ X 30″)
1 REQUIRED

(INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION)

MOT STAGE 1D

CONSTRUCTION NOTE:

(1) THE TRAFFIC SIGNAL CONTRACTOR SHALL COORDINATE WITH THE MOT STAGING CONTRACTOR AND THE ENGINEER TO DECIDE WHICH PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTON TO BAG AND WHICH PEDESTRIAN PHASES TO DISABLE THROUGHOUT EACH MOT STAGE.

TS 3520
EAGLE 3J

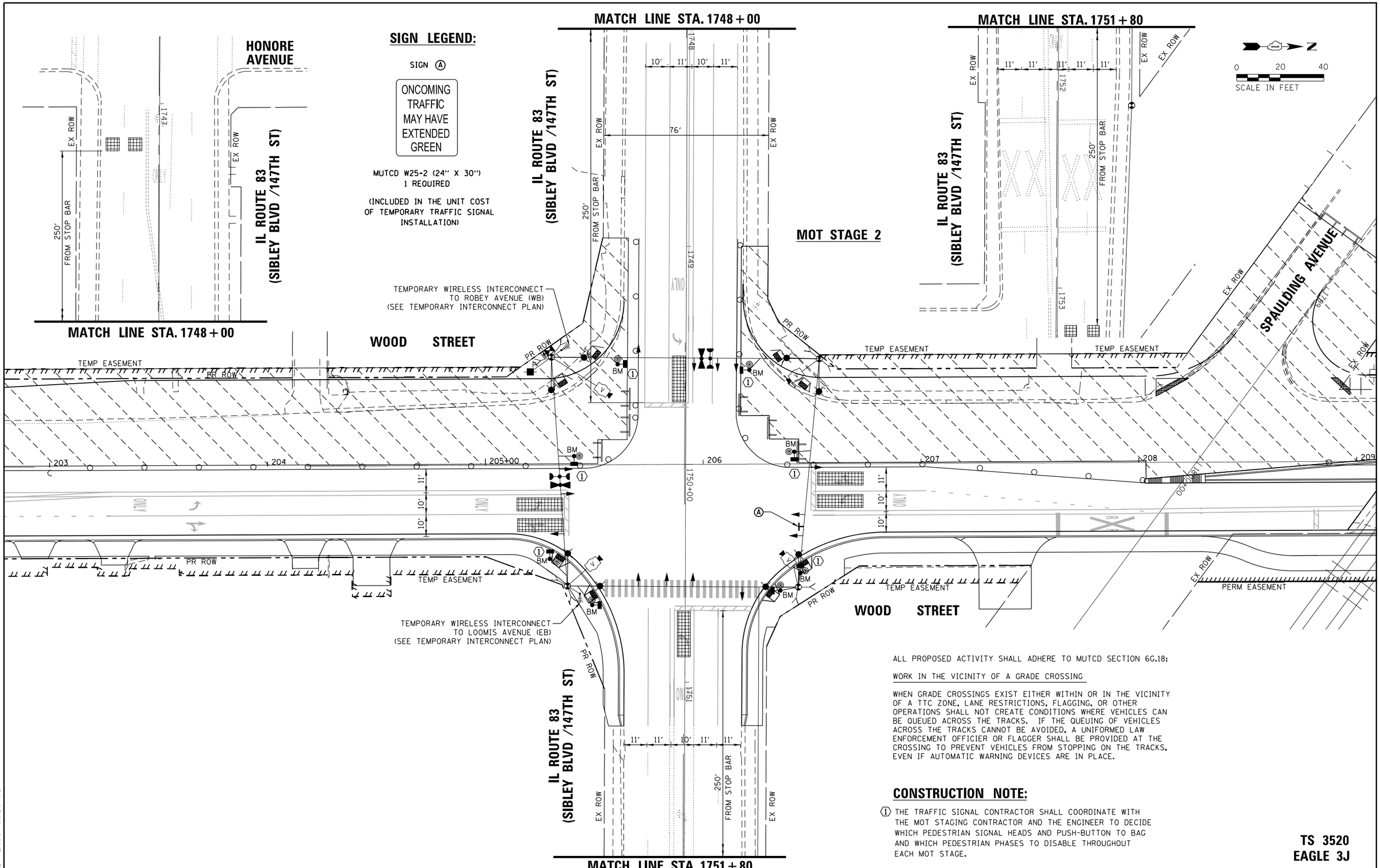
FILE NAME = N:\IDOT\150353\Traffic\Advance_Contract\AC_TS-147th_07_MOT Stage 1D.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
		DRAWN - FPB	REVISED -
	PLOT SCALE = 40′	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/28/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION
MOT STAGE 1D
WOOD STREET AND IL ROUTE 83 (SIBLEY BLVD /147TH ST)

SCALE: 1″ = 40′ | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	304
		CONTRACT NO. 62P45		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ALL PROPOSED ACTIVITY SHALL ADHERE TO MUTCD SECTION 6G.18:

WORK IN THE VICINITY OF A GRADE CROSSING

WHEN GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TTC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUEUED ACROSS THE TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICIER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

CONSTRUCTION NOTE:

(1) THE TRAFFIC SIGNAL CONTRACTOR SHALL COORDINATE WITH THE MOT STAGING CONTRACTOR AND THE ENGINEER TO DECIDE WHICH PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTON TO BAG AND WHICH PEDESTRIAN PHASES TO DISABLE THROUGHOUT EACH MOT STAGE.

TS 3520
EAGLE 3J

TS SHT NO. 16

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — NOTE BOOK NO. — BY — DATE

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Rosemont, Illinois 60018
(847) 823-0500

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CH'KD — NOTE BOOK NO. — BY — DATE

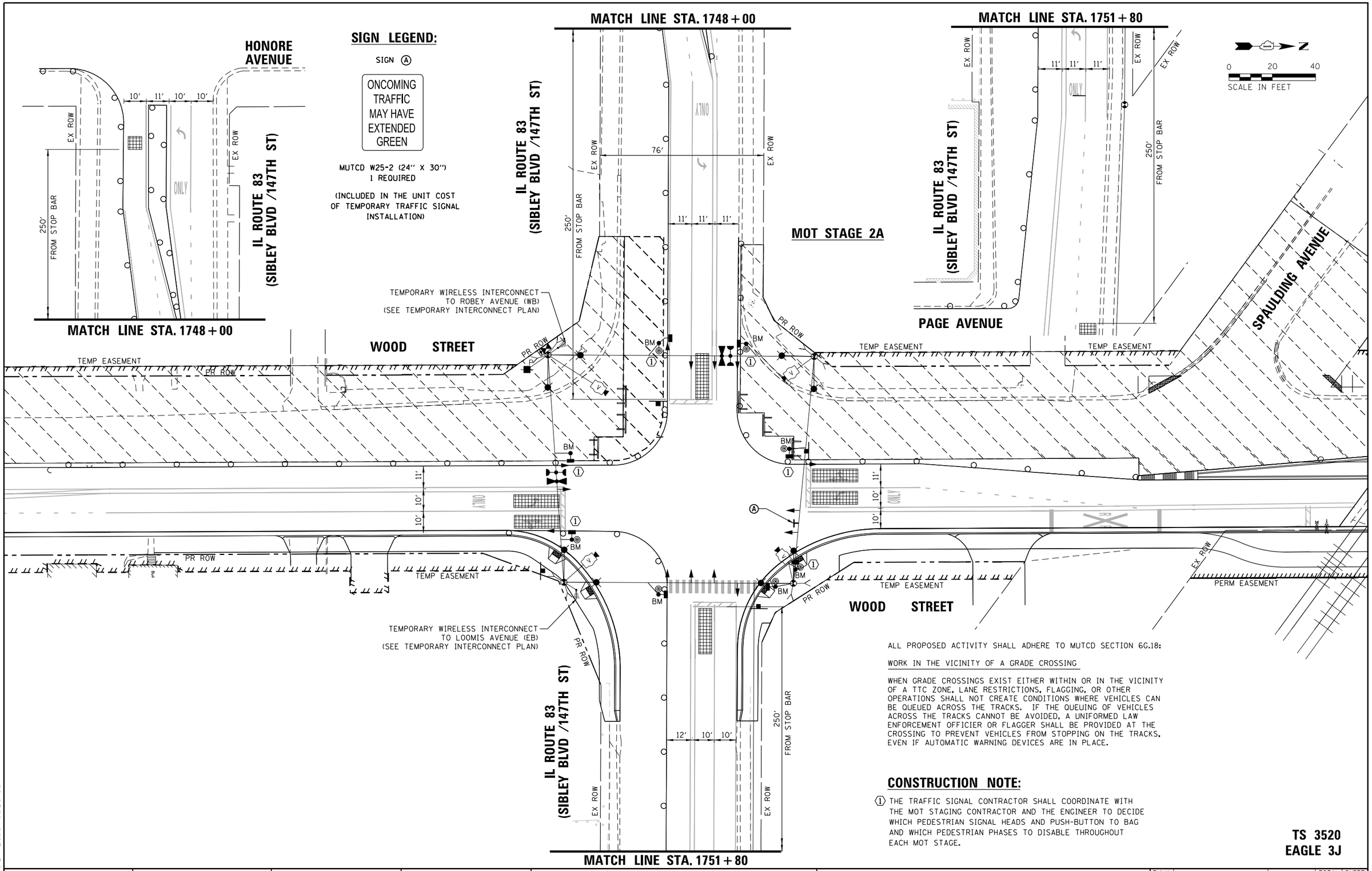
FILE NAME = N:\IDOT\150353\Traffic\Advance_Contract\AC_TS-147th_08_MOT Stage 2.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
	PLOT SCALE = 40'	DRAWN - FPB	REVISED -
	PLOT DATE = 1/28/2022	CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION
MOT STAGE 2
WOOD STREET AND IL ROUTE 83 (SIBLEY BLVD /147TH ST)

SCALE: 1" = 40' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	305
		CONTRACT NO. 62P45		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ALL PROPOSED ACTIVITY SHALL ADHERE TO MUTCD SECTION 6G.18:

WORK IN THE VICINITY OF A GRADE CROSSING

WHEN GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TTC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUEUED ACROSS THE TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICIER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

CONSTRUCTION NOTE:

(1) THE TRAFFIC SIGNAL CONTRACTOR SHALL COORDINATE WITH THE MOT STAGING CONTRACTOR AND THE ENGINEER TO DECIDE WHICH PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTON TO BAG AND WHICH PEDESTRIAN PHASES TO DISABLE THROUGHOUT EACH MOT STAGE.

TS 3520
EAGLE 3J

TS SHT NO. 17

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CH'KD / NOTE BOOK NO. / BY / DATE

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Rosemont, Illinois 60018
(847) 823-0500

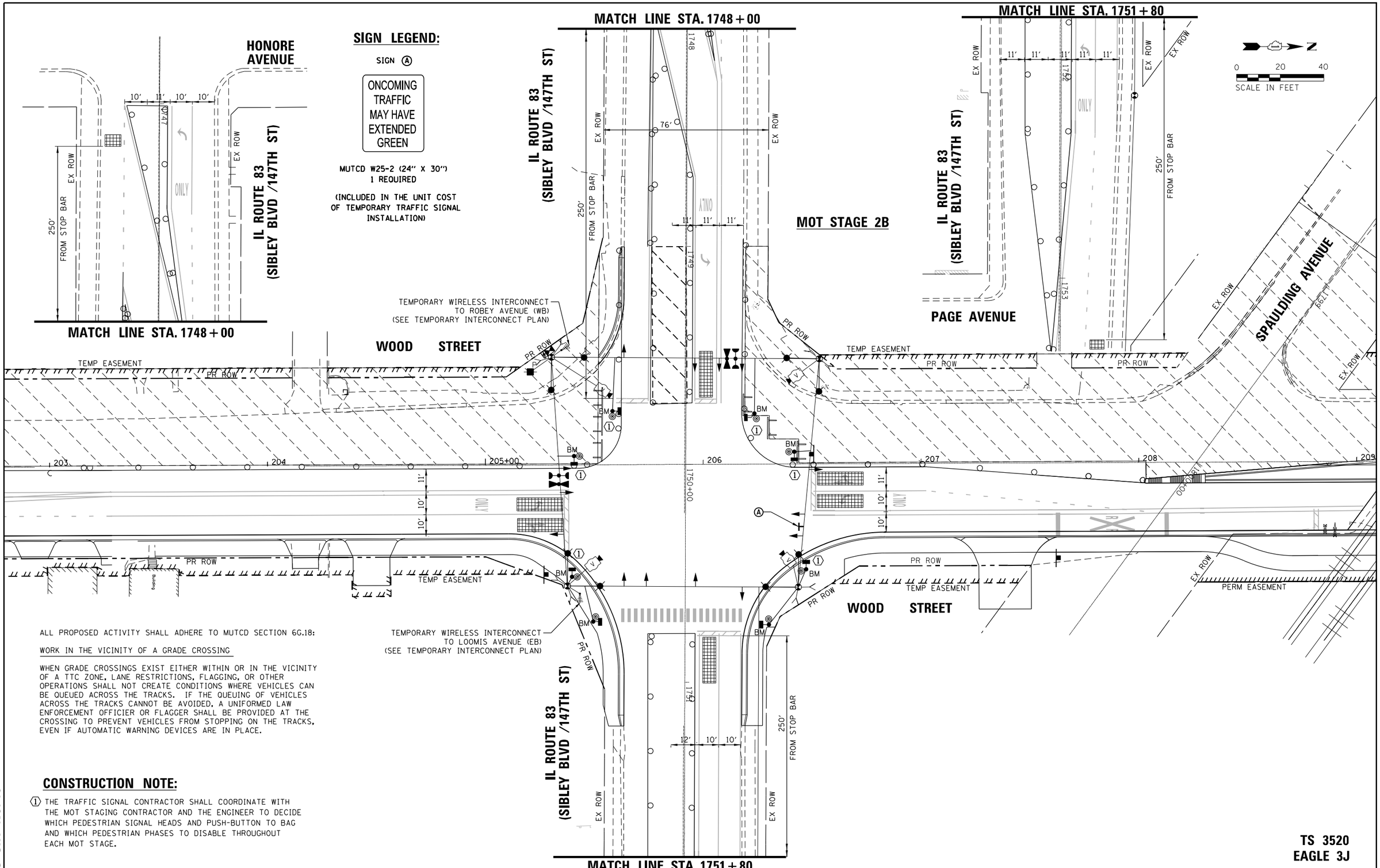
FILE NAME = N:\IDOT\150353\Traffic\Advance_Contract\AC_TS-147th_09_MOT Stage 2A.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
	PLOT SCALE = 40'	DRAWN - FPB	REVISED -
	PLOT DATE = 1/28/2022	CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION
MOT STAGE 2A
WOOD STREET AND IL ROUTE 83 (SIBLEY BLVD /147TH ST)

SCALE: 1" = 40' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	306
		CONTRACT NO. 62P45		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ALL PROPOSED ACTIVITY SHALL ADHERE TO MUTCD SECTION 6G.18:

WORK IN THE VICINITY OF A GRADE CROSSING

WHEN GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TTC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUEUED ACROSS THE TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICIER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

CONSTRUCTION NOTE:

(1) THE TRAFFIC SIGNAL CONTRACTOR SHALL COORDINATE WITH THE MOT STAGING CONTRACTOR AND THE ENGINEER TO DECIDE WHICH PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTON TO BAG AND WHICH PEDESTRIAN PHASES TO DISABLE THROUGHOUT EACH MOT STAGE.

TS 3520
EAGLE 3J

TS SHT NO. 18

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Rosemont, Illinois 60018
(847) 823-0500

PLAN: NOTE BOOK NO. ___ SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME

PROFILE: NOTE BOOK NO. ___ SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CH'KD

FILE NAME = N:\IDOT\150353\Traffic\Advance_Contract\AC_TS-147th_10_MOT Stage 2B.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
	PLOT SCALE = 40'	DRAWN - FPB	REVISED -
	PLOT DATE = 1/28/2022	CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

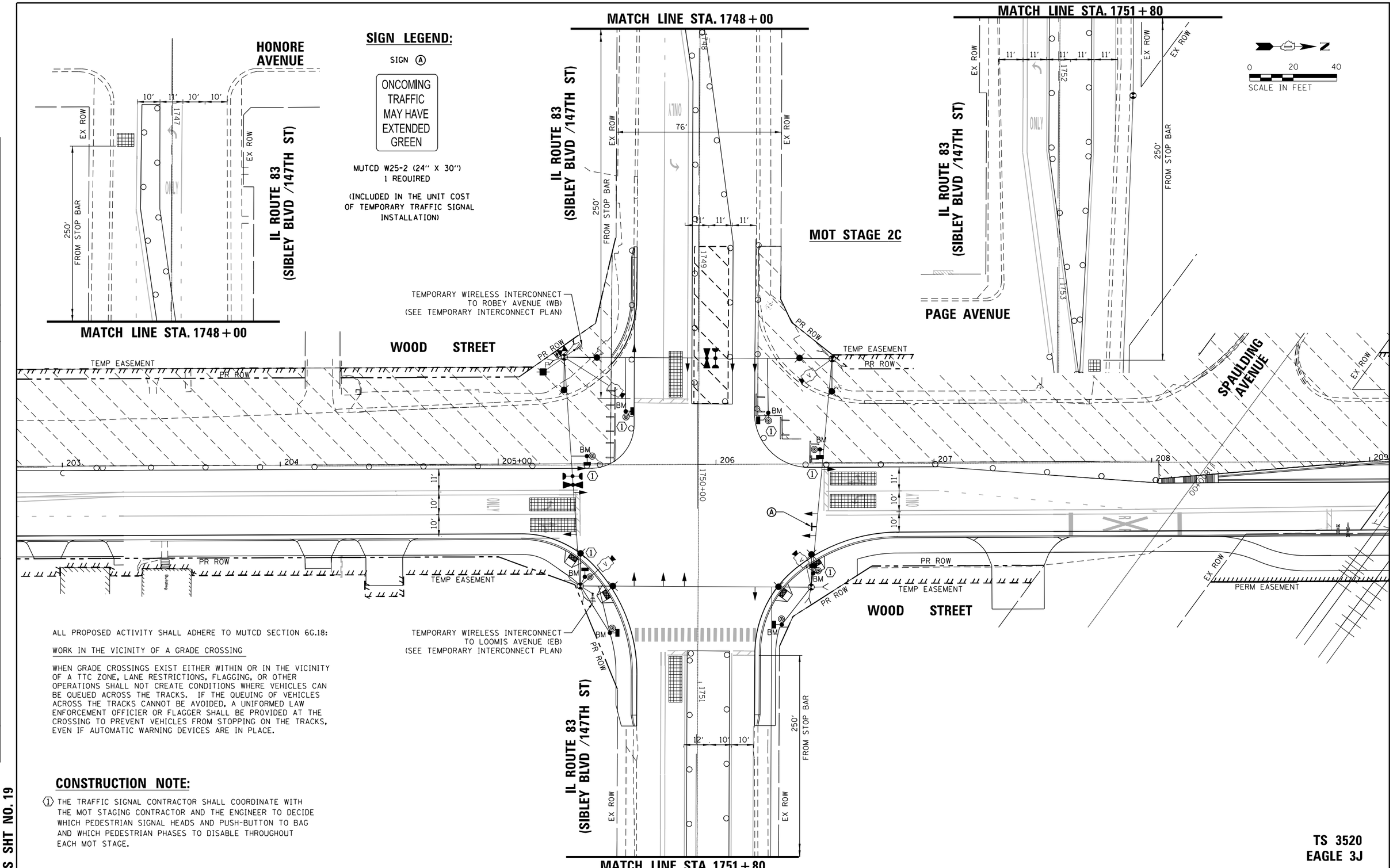
TEMPORARY TRAFFIC SIGNAL INSTALLATION
MOT STAGE 2B
WOOD STREET AND IL ROUTE 83 (SIBLEY BLVD /147TH ST)

SCALE: 1" = 40' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	307

CONTRACT NO. 62P45

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



SIGN LEGEND:

SIGN (A)

ONCOMING TRAFFIC MAY HAVE EXTENDED GREEN

MUTCD W25-2 (24" X 30")
1 REQUIRED

(INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION)

ALL PROPOSED ACTIVITY SHALL ADHERE TO MUTCD SECTION 6G.18:

WORK IN THE VICINITY OF A GRADE CROSSING

WHEN GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TTC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUEUED ACROSS THE TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICIER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

CONSTRUCTION NOTE:

(1) THE TRAFFIC SIGNAL CONTRACTOR SHALL COORDINATE WITH THE MOT STAGING CONTRACTOR AND THE ENGINEER TO DECIDE WHICH PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTON TO BAG AND WHICH PEDESTRIAN PHASES TO DISABLE THROUGHOUT EACH MOT STAGE.

TS 3520
EAGLE 3J

TS SHT NO. 19

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CH'KD / NOTE BOOK NO. / BY / DATE

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9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

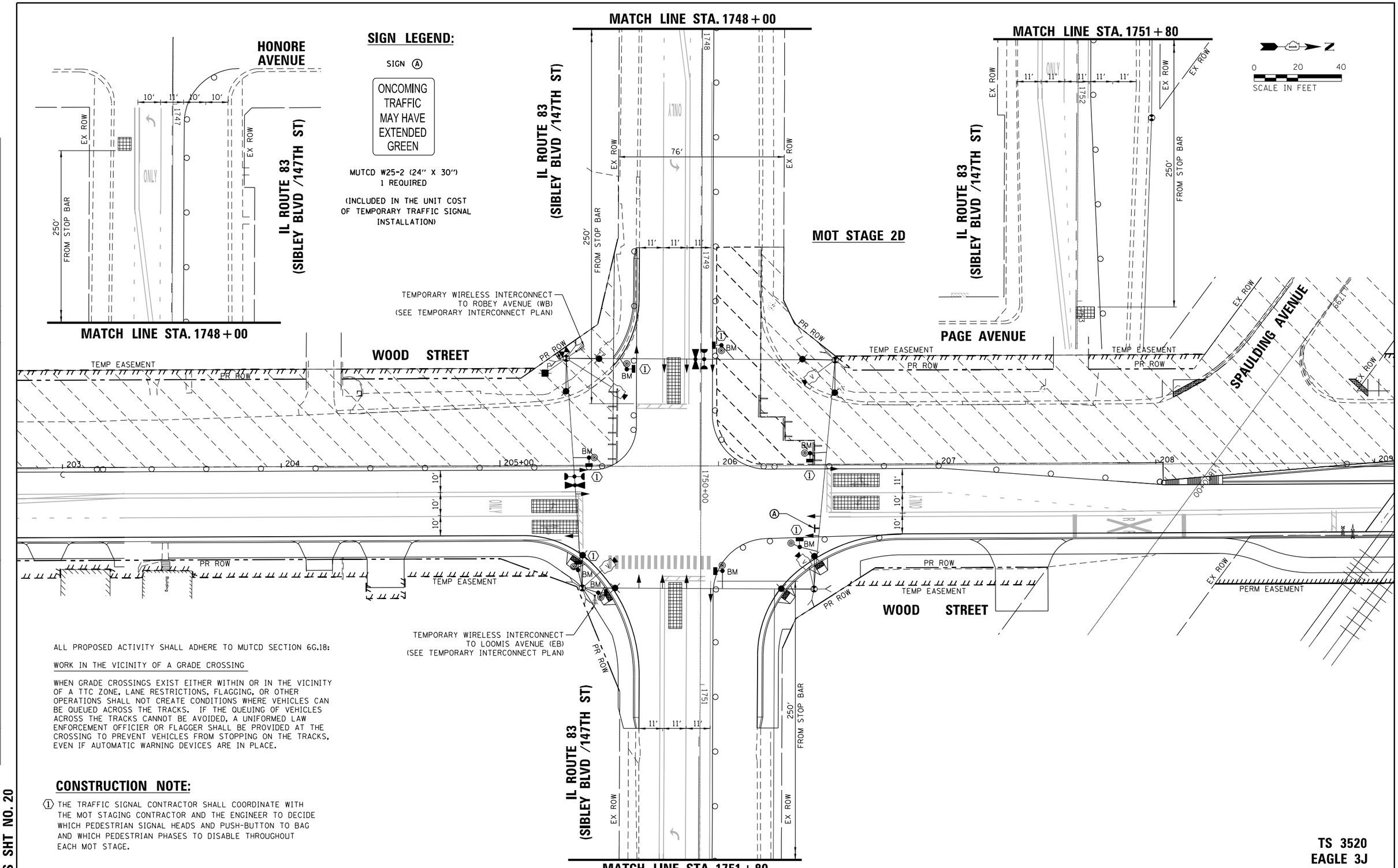
FILE NAME = N:\IDOT\150353\Traffic\Advance_Contract\AC_TS-147th_11_MOT Stage 2C.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
	PLOT SCALE = 40'	DRAWN - FPB	REVISED -
	PLOT DATE = 1/28/2022	CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION
MOT STAGE 2C
WOOD STREET AND IL ROUTE 83 (SIBLEY BLVD /147TH ST)

SCALE: 1" = 40' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	308
		CONTRACT NO. 62P45		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SIGN LEGEND:

SIGN (A)

ONCOMING TRAFFIC MAY HAVE EXTENDED GREEN

MUTCD W25-2 (24" X 30")
1 REQUIRED

(INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION)

ALL PROPOSED ACTIVITY SHALL ADHERE TO MUTCD SECTION 6G.18:

WORK IN THE VICINITY OF A GRADE CROSSING

WHEN GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TTC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUEUED ACROSS THE TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICIER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

CONSTRUCTION NOTE:

(1) THE TRAFFIC SIGNAL CONTRACTOR SHALL COORDINATE WITH THE MOT STAGING CONTRACTOR AND THE ENGINEER TO DECIDE WHICH PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTON TO BAG AND WHICH PEDESTRIAN PHASES TO DISABLE THROUGHOUT EACH MOT STAGE.

TS 3520
EAGLE 3J

TS SHT NO. 20

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Rosemont, Illinois 60018
(847) 823-0500

PLAN: NOTE BOOK NO. ___ SURVEYED ___ PLOTTED ___ ALIGNMENT CHECKED ___ RT. OF WAY CHECKED ___ CADD FILE NAME ___ BY ___ DATE ___

PROFILE: NOTE BOOK NO. ___ SURVEYED ___ PLOTTED ___ GRADES CHECKED ___ B.M. NOTED ___ STRUCTURE NOTATNS CHKD ___ BY ___ DATE ___

FILE NAME = N:\IDOT\150353\Traffic\Advance_Contract\AC_TS-147th_12_MOT Stage 2D.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
	PLOT SCALE = 40'	DRAWN - FPB	REVISED -
	PLOT DATE = 1/28/2022	CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION
MOT STAGE 2D
WOOD STREET AND IL ROUTE 83 (SIBLEY BLVD /147TH ST)

SCALE: 1" = 40' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	309
		CONTRACT NO. 62P45		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

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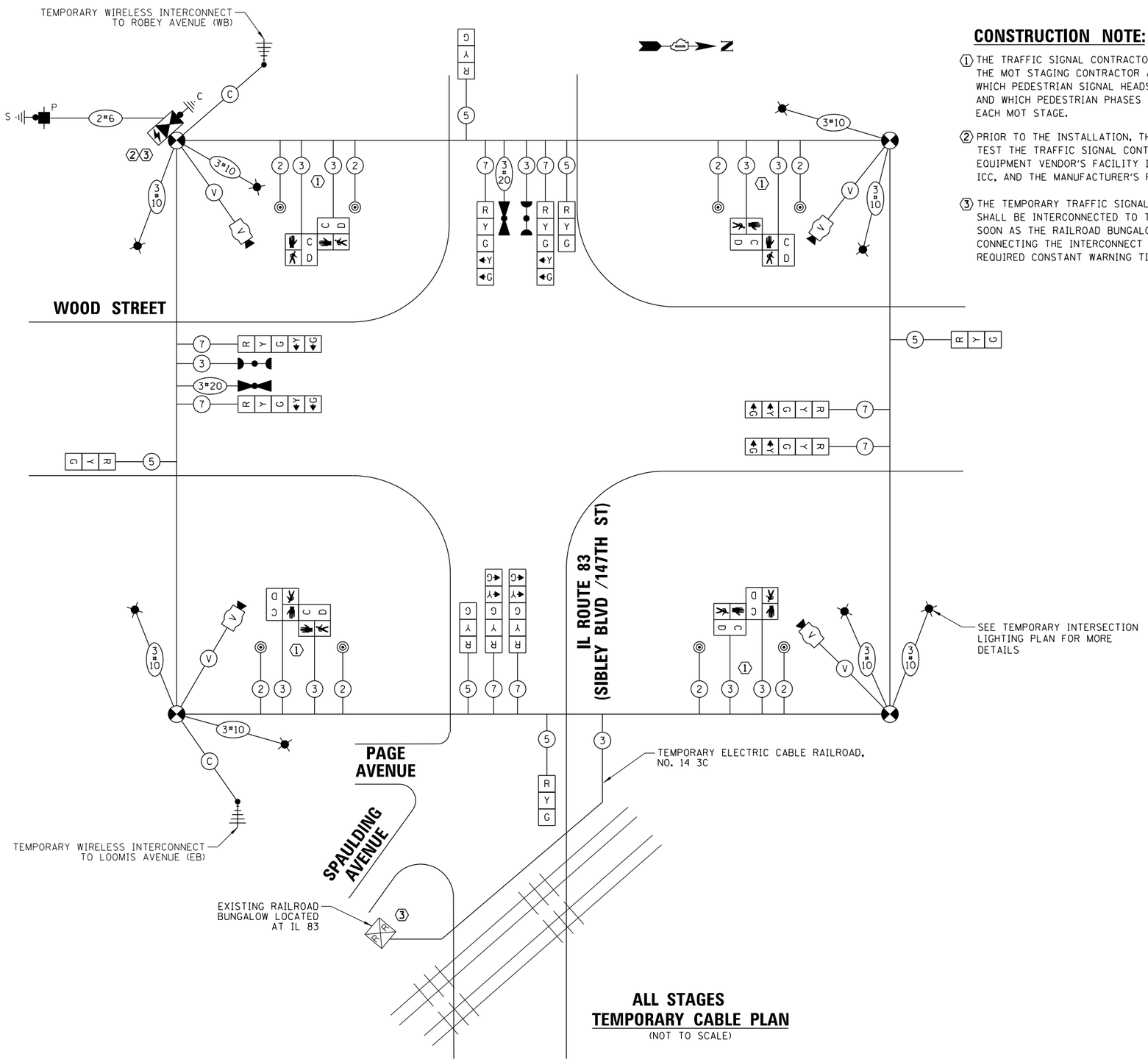
PROFILE — SURVEYED / DATED / DRAWN / CHECKED / ELEV. DATUM / STRUCTURE NOTATIONS CHKD / NOTE BOOK / NO. ____ / BY / DATE

HONORE AVENUE

IL ROUTE 83 (SIBLEY BLVD /147TH ST)

250' FROM STOP BAR

11' 11' 11'



CONSTRUCTION NOTE:

1. THE TRAFFIC SIGNAL CONTRACTOR SHALL COORDINATE WITH THE MOT STAGING CONTRACTOR AND THE ENGINEER TO DECIDE WHICH PEDESTRIAN SIGNAL HEADS AND PUSH-BUTTON TO BAG AND WHICH PEDESTRIAN PHASES TO DISABLE THROUGHOUT EACH MOT STAGE.
2. PRIOR TO THE INSTALLATION, THE CONTRACTOR SHALL SHOP TEST THE TRAFFIC SIGNAL CONTROLLER AND CABINET AT THE EQUIPMENT VENDOR'S FACILITY IN THE PRESENCE OF IDOT, ICC, AND THE MANUFACTURER'S REPRESENTATIVES.
3. THE TEMPORARY TRAFFIC SIGNAL CONTROLLER AND CABINET SHALL BE INTERCONNECTED TO THE RAILROAD BUNGALOW AS SOON AS THE RAILROAD BUNGALOW IS CAPABLE OF CONNECTING THE INTERCONNECT CABLE AND CAN PROVIDE THE REQUIRED CONSTANT WARNING TIME.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	8	198	50	792.0
			TOTAL =	1409.6

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: (708) 235-2692
COMPANY: COMED
ACCOUNT NUMBER: ---

ALL STAGES TEMPORARY CABLE PLAN

(NOT TO SCALE)

TS 3520
EAGLE 3J

TS SHT NO. 22

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PROFILE — NOTE BOOK NO. ___ — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CH'KD — BY — DATE

FILE NAME = N:\IDOT\150353\Traffic\Advance_Contract\AC_TS-147th_14_TCB.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
		DRAWN - FPB	REVISED -
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/27/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM
WOOD STREET AND IL ROUTE 83 (SIBLEY BLVD /147TH ST)

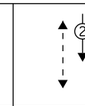
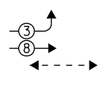
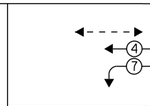
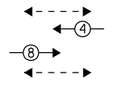
SCALE: 1" = 40' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	311

CONTRACT NO. 62P45

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

TEMPORARY SEQUENCE OF OPERATION

MOVEMENT N →																																FLASH
PHASE	1 + 5				1 + 6			2 + 5			2 + 6				3 + 7				3 + 8				4 + 7				4 + 8				
INTERVAL	1	2	3	4	5	6	7	8	9	10	11	12	13Λ	13B	14	15	16	17	18	19	20Λ	20B	21	22	23	24Λ	24B	25	26	27	28Λ	28B	
CHANGE TO		1+6	2+5	2+6	θ	θ	2+6	θ	θ	2+6			3+7 3+8	4+7 4+8		1+5 1+6 2+5 2+6 4+8	3+8	4+7	θ	θ	1+5 2+5	1+6 2+6	4+8	θ	θ	1+5 2+5	1+6 2+6	4+8			1+5 2+5	1+6 2+6	
IL ROUTE 83 (SIBLEY BLVD / 147TH ST) E/B LEFT AND MID SPAN WIRE SIGNALS	R ←G	R ←Y	R ←G	R ←Y	R	R	R	G ←G	G ←G	G ←Y	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IL ROUTE 83 (SIBLEY BLVD / 147TH ST) E/B NEAR AND FAR RIGHT SPAN WIRE SIGNALS	R	R	R	R	R	R	R	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IL ROUTE 83 (SIBLEY BLVD / 147TH ST) W/B LEFT AND MID SPAN WIRE SIGNALS	R ←G	R ←G	R ←Y	R ←Y	G ←G	G ←G	G ←Y	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IL ROUTE 83 (SIBLEY BLVD / 147TH ST) W/B NEAR AND FAR RIGHT SPAN WIRE SIGNALS	R	R	R	R	G	G	G	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
WOOD STREET N/B FAR LEFT AND FAR RIGHT SPAN WIRE SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R ←G	R ←Y	R ←G	R ←Y	G ←G	G ←G	Y	R	G ←Y	R	R	R	R	R	G	G	Y	R	R
WOOD STREET N/B NEAR SPAN WIRE SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	R	R	R	R	R	G	G	Y	R	R
WOOD STREET S/B FAR LEFT AND FAR RIGHT SPAN WIRE SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R ←G	R ←Y	R ←Y	R ←G	R	R	R	R	R	G ←G	G ←G	Y	R	G ←Y	G	G	Y	R	R
WOOD STREET S/B NEAR SPAN WIRE SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	G	G	Y	R	R
PEDESTRIAN SIGNALS CROSSING IL ROUTE 83 (SIBLEY BLVD / 147TH ST) ON EAST SIDE OF WOOD STREET	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	* P	**FH	H	H	H	H	H	H	H	H	* P	**FH	H	H	D
PEDESTRIAN SIGNALS CROSSING IL ROUTE 83 (SIBLEY BLVD / 147TH ST) ON WEST SIDE OF WOOD STREET	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	* P	**FH	H	H	H	* P	**FH	H	H	A
PEDESTRIAN SIGNALS CROSSING WOOD STREET ON NORTH SIDE OF IL ROUTE 83 (SIBLEY BLVD / 147TH ST)	H	H	H	H	* P	**FH	H	H	H	H	* P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	R
PEDESTRIAN SIGNALS CROSSING WOOD STREET ON SOUTH SIDE OF IL ROUTE 83 (SIBLEY BLVD / 147TH ST)	H	H	H	H	H	H	H	* P	**FH	H	* P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	K

PHASE 2+6 SHALL BE PLACED ON RECALL

* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION

** FLASHING "🚶" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

θ THIS "🚶" OR FLASHING "🚶" INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE OR FLASHING "🚶" INTERVALS.

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

TEMPORARY RAILROAD PREEMPTION SEQUENCE OF OPERATION

															PREEMPTOR NUMBER 3		PREEMPTOR NUMBER 4		PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5		8		11		14	18		22		26										
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER															2		3						
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	2	3	4	5	CLEAR TO NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	1G	2	2	1K	2	1M	2	1P	2	1R	2	1T	2	3	4	5	Δ	
IL ROUTE 83 (SIBLEY BLVD / 147TH ST) E/B LEFT AND MID SPAN WIRE SIGNALS	R ←Y	R	R	Y	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	Δ
IL ROUTE 83 (SIBLEY BLVD / 147TH ST) E/B NEAR AND FAR RIGHT SPAN WIRE SIGNALS	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	Δ
IL ROUTE 83 (SIBLEY BLVD / 147TH ST) W/B LEFT AND MID SPAN WIRE SIGNALS	R ←Y	Y	R	R	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G ←G	Δ
IL ROUTE 83 (SIBLEY BLVD / 147TH ST) W/B NEAR AND FAR RIGHT SPAN WIRE SIGNALS	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	Δ
WOOD STREET N/B FAR LEFT AND FAR RIGHT SPAN WIRE SIGNALS	R	R	R	R	R	R	R	R ←Y	Y	R	R	R	Y	R	R	R	Y	R	R	R	R	R	Δ
WOOD STREET N/B NEAR SPAN WIRE SIGNAL	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	Y	R	R	R	R	R	Δ
WOOD STREET S/B FAR LEFT AND FAR RIGHT SPAN WIRE SIGNALS	R	R	R	R	R	R	R	R ←G	R	R	G ←G	G ←G	G	G	R	R	G	G	G ←G	Y	R	R	Δ
WOOD STREET S/B NEAR SPAN WIRE SIGNAL	R	R	R	R	R	R	R	R	R	R	G	G	G	G	R	R	G	G	G	Y	R	R	Δ
PEDESTRIAN SIGNALS CROSSING IL ROUTE 83 (SIBLEY BLVD / 147TH ST) ON EAST SIDE OF WOOD STREET	H	H	H	H	H	H	H	H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	Δ
PEDESTRIAN SIGNALS CROSSING IL ROUTE 83 (SIBLEY BLVD / 147TH ST) ON WEST SIDE OF WOOD STREET	H	H	H	H	H	H	H	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	Δ
PEDESTRIAN SIGNALS CROSSING WOOD STREET ON NORTH SIDE OF IL ROUTE 83 (SIBLEY BLVD / 147TH ST)	H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	Δ
PEDESTRIAN SIGNALS CROSSING WOOD STREET ON SOUTH SIDE OF IL ROUTE 83 (SIBLEY BLVD / 147TH ST)	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	Δ
																						HOLD	

Δ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

(Δ) RAILROAD PREEMPTION SEQUENCE SHALL BE CAPABLE OF CYCLING BETWEEN PHASES 3+7, 4+7 AND 1+6 UNTIL RAILROAD PREEMPTION IS TERMINATED.

TS 3520
EAGLE 3J

TS SHT NO. 23

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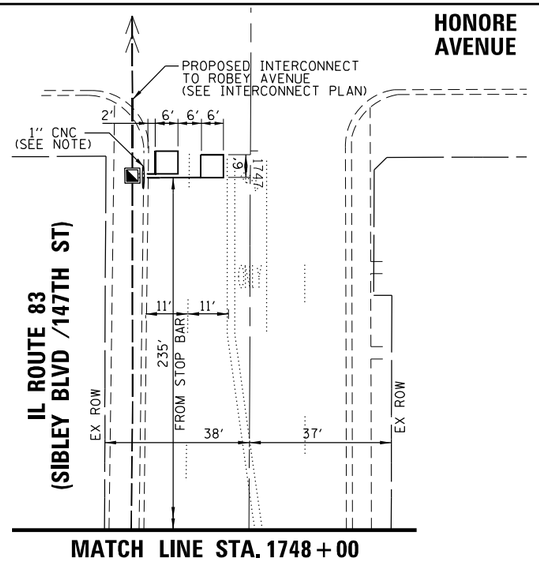
PROFILE: SURVEYED, PLOTTED, CHECKED, B.M. NOTED, STRUCTURE NO'S/MI'S CHKD, NOTE BOOK, NO. ____, BY, DATE

FILE NAME = N:\IDOT\150353\Traffic\Advance_Contract\AC_TS-147th_14A_TSEQ1.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - FPB	REVISED -	
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -	
	PLOT DATE = 1/28/2022	DATE -	REVISED -	

TEMPORARY SEQUENCE CHART
WOOD STREET AND IL ROUTE 83 (SIBLEY BLVD /147TH ST)

SCALE: 1" = 40' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	312
		CONTRACT NO. 62P45		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ALL PROPOSED ACTIVITY SHALL ADHERE TO MUTCD SECTION 6G.18:

WORK IN THE VICINITY OF A GRADE CROSSING

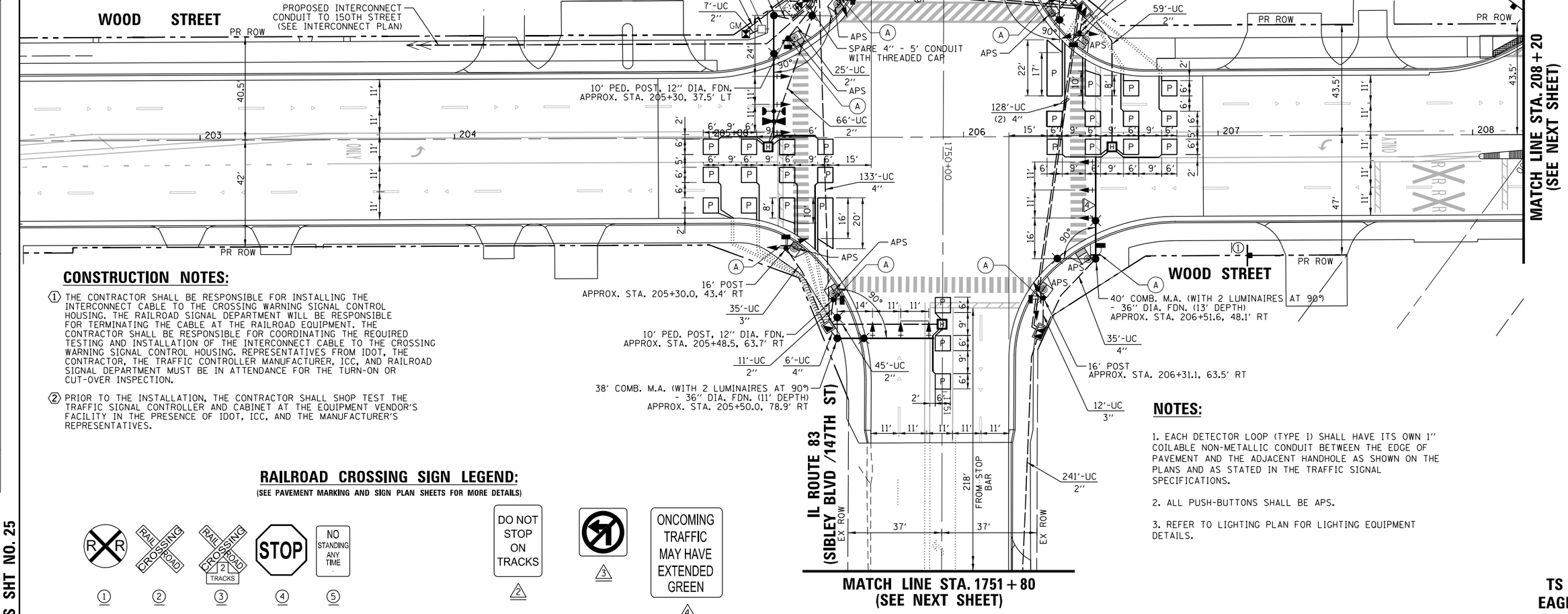
WHEN GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TTC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUEUED ACROSS THE TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICIER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

SIGN LEGEND:

SIGN (A)

CAUTION
WALK TIME SHORTENED WHEN TRAIN APPROACHING

18" X 24" 8-REQUIRED (INCLUDED IN PEDESTRIAN PUSHBUTTON PAY ITEM)



CONSTRUCTION NOTES:

(1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE INTERCONNECT CABLE TO THE CROSSING WARNING SIGNAL CONTROL HOUSING. THE RAILROAD SIGNAL DEPARTMENT WILL BE RESPONSIBLE FOR TERMINATING THE CABLE AT THE RAILROAD EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE REQUIRED TESTING AND INSTALLATION OF THE INTERCONNECT CABLE TO THE CROSSING WARNING SIGNAL CONTROL HOUSING. REPRESENTATIVES FROM IDOT, THE CONTRACTOR, THE TRAFFIC CONTROLLER MANUFACTURER, ICC, AND RAILROAD SIGNAL DEPARTMENT MUST BE IN ATTENDANCE FOR THE TURN-ON OR CUT-OVER INSPECTION.

(2) PRIOR TO THE INSTALLATION, THE CONTRACTOR SHALL SHOP TEST THE TRAFFIC SIGNAL CONTROLLER AND CABINET AT THE EQUIPMENT VENDOR'S FACILITY IN THE PRESENCE OF IDOT, ICC, AND THE MANUFACTURER'S REPRESENTATIVES.

NOTES:

1. EACH DETECTOR LOOP (TYPE I) SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

2. ALL PUSH-BUTTONS SHALL BE APS.

3. REFER TO LIGHTING PLAN FOR LIGHTING EQUIPMENT DETAILS.

RAILROAD CROSSING SIGN LEGEND:

(SEE PAVEMENT MARKING AND SIGN PLAN SHEETS FOR MORE DETAILS)

TS 3520
EAGLE 3J

TS SHT NO. 25

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PROFILE: SURVEYED, PLOTTED, CADD CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, BY, DATE

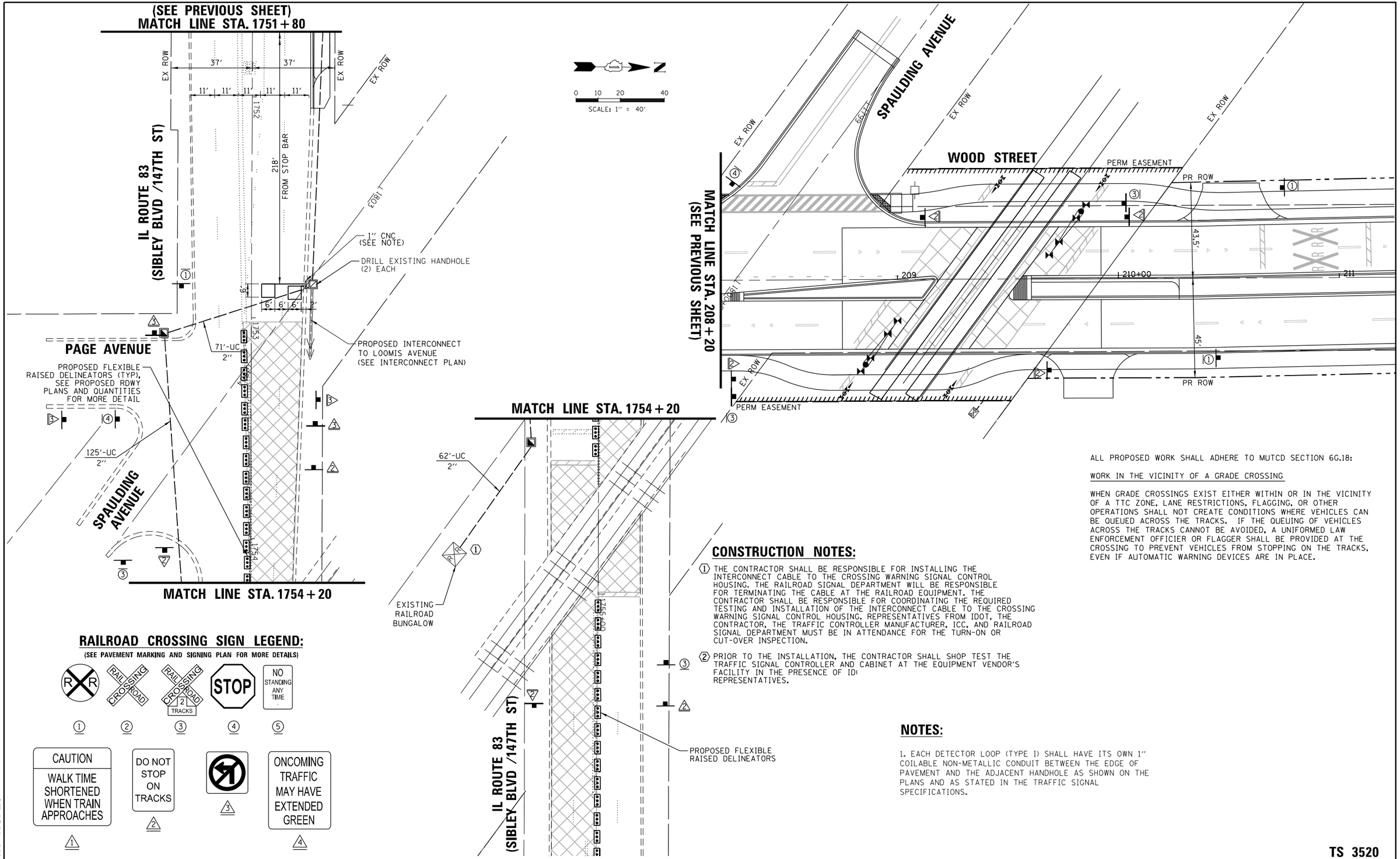
FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
N:\IDOT\150353\Traffic\Advance_Contract\AC_TS-147th_15_TSD 1.dgn	DRAWN - FPB	REVISED -	
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/27/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
WOOD STREET AND IL ROUTE 83 (SIBLEY BLVD /147TH ST)

SCALE: 1" = 40' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	313
		CONTRACT NO. 62P45		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



RAILROAD CROSSING SIGN LEGEND:

(SEE PAVEMENT MARKING AND SIGNING PLAN FOR MORE DETAILS)

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE INTERCONNECT CABLE TO THE CROSSING WARNING SIGNAL CONTROL HOUSING. THE RAILROAD SIGNAL DEPARTMENT WILL BE RESPONSIBLE FOR TERMINATING THE CABLE AT THE RAILROAD EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE REQUIRED TESTING AND INSTALLATION OF THE INTERCONNECT CABLE TO THE CROSSING WARNING SIGNAL CONTROL HOUSING. REPRESENTATIVES FROM IDOT, THE CONTRACTOR, THE TRAFFIC CONTROLLER MANUFACTURER, ICC, AND RAILROAD SIGNAL DEPARTMENT MUST BE IN ATTENDANCE FOR THE TURN-ON OR CUT-OVER INSPECTION.
2. PRIOR TO THE INSTALLATION, THE CONTRACTOR SHALL SHOP TEST THE TRAFFIC SIGNAL CONTROLLER AND CABINET AT THE EQUIPMENT VENDOR'S FACILITY IN THE PRESENCE OF IDO REPRESENTATIVES.

NOTES:

1. EACH DETECTOR LOOP (TYPE I) SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

ALL PROPOSED WORK SHALL ADHERE TO MUTCD SECTION 6G.18:

WORK IN THE VICINITY OF A GRADE CROSSING

WHEN GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TTC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUEUED ACROSS THE TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICIER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

TS 3520
EAGLE 3J

TS SHT NO. 26

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(847) 823-0500

PLAN — SURVEYED — BY — DATE
NOTE BOOK — ALIGNMENT CHECKED
NO. ____ — RT. OF WAY CHECKED
C-ADD FILE NAME

PROFILE — SURVEYED — BY — DATE
NOTE BOOK — GRADES CHECKED
NO. ____ — B.M. NOTED
STRUCTURE NO.TAKING CHKD

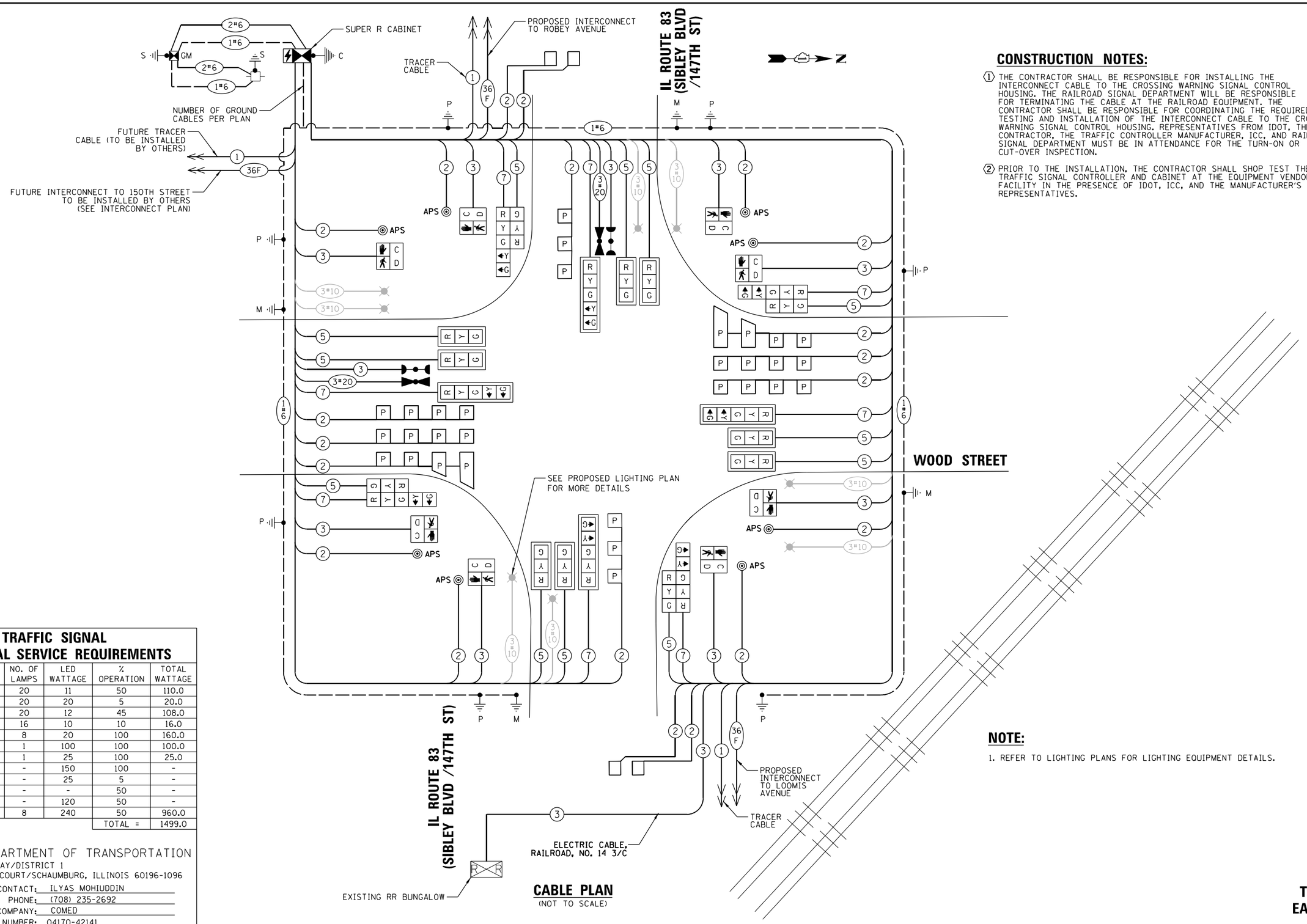
FILE NAME = N:\IDOT\150353\Traffic\Advance_Contract\AC_TS-147th_16_TSD 2.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
		DRAWN - FPB	REVISED -
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/28/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
WOOD STREET AND IL ROUTE 83 (SIBLEY BLVD /147TH ST)

SCALE: 1" = 40' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	314
		CONTRACT NO. 62P45		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CABLE PLAN
(NOT TO SCALE)

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE INTERCONNECT CABLE TO THE CROSSING WARNING SIGNAL CONTROL HOUSING. THE RAILROAD SIGNAL DEPARTMENT WILL BE RESPONSIBLE FOR TERMINATING THE CABLE AT THE RAILROAD EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE REQUIRED TESTING AND INSTALLATION OF THE INTERCONNECT CABLE TO THE CROSSING WARNING SIGNAL CONTROL HOUSING. REPRESENTATIVES FROM IDOT, THE CONTRACTOR, THE TRAFFIC CONTROLLER MANUFACTURER, ICC, AND RAILROAD SIGNAL DEPARTMENT MUST BE IN ATTENDANCE FOR THE TURN-ON OR CUT-OVER INSPECTION.

2. PRIOR TO THE INSTALLATION, THE CONTRACTOR SHALL SHOP TEST THE TRAFFIC SIGNAL CONTROLLER AND CABINET AT THE EQUIPMENT VENDOR'S FACILITY IN THE PRESENCE OF IDOT, ICC, AND THE MANUFACTURER'S REPRESENTATIVES.

NOTE:

1. REFER TO LIGHTING PLANS FOR LIGHTING EQUIPMENT DETAILS.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	11	50	110.0
(YELLOW)	20	20	5	20.0
(GREEN)	20	12	45	108.0
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	8	240	50	960.0
			TOTAL =	1499.0

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: (708) 235-2692
COMPANY: COMED
ACCOUNT NUMBER: 04170-42141

TS SHT NO. 27

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, C-ADD FILE NAME, NOTE BOOK, NO. ____, BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, BM. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO. ____, BY, DATE

FILE NAME = N:\IDOT\150353\Traffic\Advance_Contract\AC_TS-147th_17_CAB.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
	PLOT SCALE = 40'	DRAWN - FPB	REVISED -
	PLOT DATE = 1/27/2022	CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

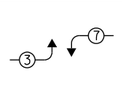
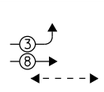
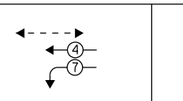
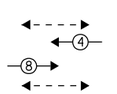
CABLE PLAN
WOOD STREET AND IL ROUTE 83 (SIBLEY BLVD /147TH ST)

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	315
		CONTRACT NO. 62P45		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TS 3520
EAGLE 3J

SEQUENCE OF OPERATION

MOVEMENT N →									FLASH
PHASE	1 + 5	1 + 6	2 + 5	2 + 6	3 + 7	3 + 8	4 + 7	4 + 8	
INTERVAL	1 2 3 4	5 6 7	8 9 10	11 12 13A 13B	14 15 16 17	18 19 20A 20B 21	22 23 24A 24B 25	26 27 28A 28B	
CHANGE TO	/ 1+6 2+5 2+6	θ θ 2+6	θ θ 2+6	/ / 3+7 3+8 4+7 4+8	/ 1+5 1+6 2+5 2+6 4+8 3+8 4+7	θ θ 1+5 2+5 1+6 2+6 4+8	θ θ 1+5 2+5 1+6 2+6 4+8	/ / 1+5 2+5 1+6 2+6	PHASE 2+6 SHALL BE PLACED ON RECALL
IL ROUTE 83 (SIBLEY BLVD / 147TH ST) E/B END MAST ARM AND FAR LEFT SIGNALS	R ←G R ←Y R ←G R ←Y	R R R	G ←G G ←G G ←Y	G G Y R	R R R R	R R R R R	R R R R R	R R R R	R
IL ROUTE 83 (SIBLEY BLVD / 147TH ST) E/B MID AND RIGHT MAST ARM SIGNALS	R R R R	R R R	G G G	G G Y R	R R R R	R R R R R	R R R R R	R R R R	R
IL ROUTE 83 (SIBLEY BLVD / 147TH ST) W/B END MAST ARM AND FAR LEFT SIGNALS	R ←G R ←G R ←Y R ←Y	G ←G G ←G G ←Y	R R R	G G Y R	R R R R	R R R R R	R R R R R	R R R R	R
IL ROUTE 83 (SIBLEY BLVD / 147TH ST) W/B MID AND RIGHT MAST ARM SIGNALS	R R R R	G G G	R R R	G G Y R	R R R R	R R R R R	R R R R R	R R R R	R
WOOD STREET N/B END MAST ARM AND FAR LEFT SIGNALS	R R R R	R R R	R R R	R R R R	R ←G R ←Y R ←G R ←Y	G ←G G ←G Y R G ←Y	R R R R R	G G Y R	R
WOOD STREET N/B MID AND RIGHT MAST ARM SIGNALS	R R R R	R R R	R R R	R R R R	R R R R	G G Y R G	R R R R R	G G Y R	R
WOOD STREET S/B END MAST ARM AND FAR LEFT SIGNALS	R R R R	R R R	R R R	R R R R	R ←G R ←Y R ←Y R ←G	R R R R R	G ←G G ←G Y R G ←Y	G G Y R	R
WOOD STREET S/B MID AND RIGHT MAST ARM SIGNALS	R R R R	R R R	R R R	R R R R	R R R R	R R R R R	G G Y R G	G G Y R	R
PEDESTRIAN SIGNALS CROSSING IL ROUTE 83 (SIBLEY BLVD / 147TH ST) ON EAST SIDE OF WOOD STREET	H H H H	H H H	H H H	H H H H	H H H H	* P **FH H H H	H H H H H	* P **FH H H	DARK
PEDESTRIAN SIGNALS CROSSING IL ROUTE 83 (SIBLEY BLVD / 147TH ST) ON WEST SIDE OF WOOD STREET	H H H H	H H H	H H H	H H H H	H H H H	H H H H H	* P **FH H H H	* P **FH H H	
PEDESTRIAN SIGNALS CROSSING WOOD STREET ON NORTH SIDE OF IL ROUTE 83 (SIBLEY BLVD / 147TH ST)	H H H H	* P **FH H	H H H	* P **FH H H	H H H H	H H H H H	H H H H H	H H H H	
PEDESTRIAN SIGNALS CROSSING WOOD STREET ON SOUTH SIDE OF IL ROUTE 83 (SIBLEY BLVD / 147TH ST)	H H H H	H H H	* P **FH H	* P **FH H H	H H H H	H H H H H	H H H H H	H H H H	

* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION

** FLASHING "🚶" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

θ THIS "🚶" OR FLASHING "🚶" INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE OR FLASHING "🚶" INTERVALS.

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

RAILROAD PREEMPTION SEQUENCE OF OPERATION

														PREEMPTOR NUMBER 3		PREEMPTOR NUMBER 4		PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5		8		11		14	18		22		26									
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER														2		3						
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	2	3	4	5	CLEAR TO NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	1G	2	2	1K	2	1M	2	1P	2	1R	2	1T	2	3	4	5	Ⓐ	
IL ROUTE 83 (SIBLEY BLVD / 147TH ST) E/B END MAST ARM AND FAR LEFT SIGNALS	R ←Y	R	R	Y	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	Δ
IL ROUTE 83 (SIBLEY BLVD / 147TH ST) E/B MID AND RIGHT MAST ARM SIGNALS	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	Δ
IL ROUTE 83 (SIBLEY BLVD / 147TH ST) W/B END MAST ARM AND FAR LEFT SIGNALS	R ←Y	Y	R	R	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G ←G	Δ
IL ROUTE 83 (SIBLEY BLVD / 147TH ST) W/B MID AND RIGHT MAST ARM SIGNALS	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	Δ
WOOD STREET N/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R ←Y	Y	R	R	R	Y	R	R	R	Y	R	R	R	R	R	Δ
WOOD STREET N/B MID AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	Y	R	R	R	R	R	Δ
WOOD STREET S/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R ←G	R	R	G ←G	G ←G	G	G	R	R	G	G	G ←G	Y	R	R	Δ
WOOD STREET S/B MID AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	G	G	G	G	R	R	G	G	G	Y	R	R	Δ
PEDESTRIAN SIGNALS CROSSING IL ROUTE 83 (SIBLEY BLVD / 147TH ST) ON EAST SIDE OF WOOD STREET	H	H	H	H	H	H	H	H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	Δ
PEDESTRIAN SIGNALS CROSSING IL ROUTE 83 (SIBLEY BLVD / 147TH ST) ON WEST SIDE OF WOOD STREET	H	H	H	H	H	H	H	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	Δ
PEDESTRIAN SIGNALS CROSSING WOOD STREET ON NORTH SIDE OF IL ROUTE 83 (SIBLEY BLVD / 147TH ST)	H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	Δ
PEDESTRIAN SIGNALS CROSSING WOOD STREET ON SOUTH SIDE OF IL ROUTE 83 (SIBLEY BLVD / 147TH ST)	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	Δ
																						HOLD	

Δ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

Ⓐ RAILROAD PREEMPTION SEQUENCE SHALL BE CAPABLE OF CYCLING BETWEEN PHASES 3+7, 4+7 AND 1+6 UNTIL RAILROAD PREEMPTION IS TERMINATED.

TS 3520
EAGLE 3J

TS SHT NO. 28

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9575 West Higgins Road, Suite 600
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PLAN — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. ____ / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK / NO. ____ / BY / DATE

FILE NAME = N:\IDOT\150353\Traffic\Advance_Contract\AC_TS-147th_18_SEQ 1.dgn	USER NAME = ejensen	DESIGNED - FN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED SEQUENCE OF OPERATIONS AND RAILROAD SEQUENCE OF OPERATIONS (SHEET 1 OF 2) WOOD STREET AND IL ROUTE 83 (SIBLEY BLVD /147TH ST)
	PLOT SCALE = 40'	DRAWN - EAJ	REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 1/28/2022	CHECKED - GMZ	REVISED -		
		DATE -	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	316
		CONTRACT NO. 62P45		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

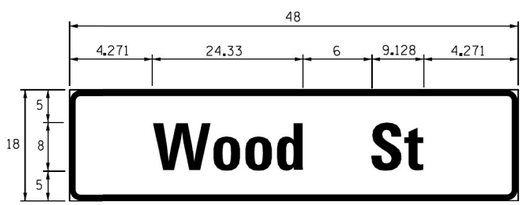
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

| | | |

MAST ARM MOUNTED STREET NAME SIGNS

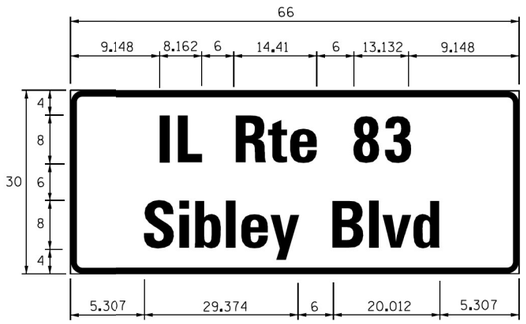
ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE

SIGN PANEL – TYPE 1



DESIGN SERIES	AREA (SQ. FT.)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.0	1	ZZ	2

SIGN PANEL – TYPE 2



DESIGN SERIES	AREA (SQ. FT.)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	13.75	2	ZZ	2

NOTE:
FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION, PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGN DETAILS.

SCHEDULE OF QUANTITIES

	ITEM	UNIT	QUANTITY
	SIGN PANEL - TYPE 1	SQ FT	12
	SIGN PANEL - TYPE 2	SQ FT	28
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,216
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	70
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	662
	HANDHOLE	EACH	6
	HEAVY-DUTY HANDHOLE	EACH	4
	DOUBLE HANDHOLE	EACH	3
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,444
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,829
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,501
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,684
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,800
	ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	1,563
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	170
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,092
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	20
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	50
	DRILL EXISTING HANDHOLE	EACH	1
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	8
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
	INDUCTIVE LOOP DETECTOR	EACH	12
	DETECTOR LOOP, TYPE I	FOOT	130
	PREFORMED DETECTOR LOOP	FOOT	1,170
*	LIGHT DETECTOR	EACH	2
*	LIGHT DETECTOR AMPLIFIER	EACH	1
	PEDESTRIAN PUSH-BUTTON	EACH	8
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	9
	REMOVE EXISTING DOUBLE HANDHOLE	EACH	2
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	329
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
	RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
	PEDESTRIAN SIGNAL POST, 10 FT.	FOOT	3
	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
	STEEL CASINGS 8"	FOOT	75
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

* 100% COST TO THE CITY OF HARVEY

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

PLAN — SURVEYED — DATE — BY — PLOTTED — CHECKED — ALIGNMENT CHECKED — R.O.W. NOTED — R/T. OF WAY CHECKED — STRUCTURE NOTATIONS CHKD — C400 FILE NAME — NOTE BOOK — NO.

PROFILE — SURVEYED — DATE — BY — PLOTTED — CHECKED — R.O.W. NOTED — NOTE BOOK — NO.

TS SHT NO. 82

TS 3520
EAGLE 3J

FILE NAME = N:\Idot\150353\Traffic\Advance_Contract\	USER NAME = fbarlso	DESIGNED - EAJ	REVISED -
	AC_TS-147th_20_CAB 2.dgn	DRAWN - FPB	REVISED -
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 8/4/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

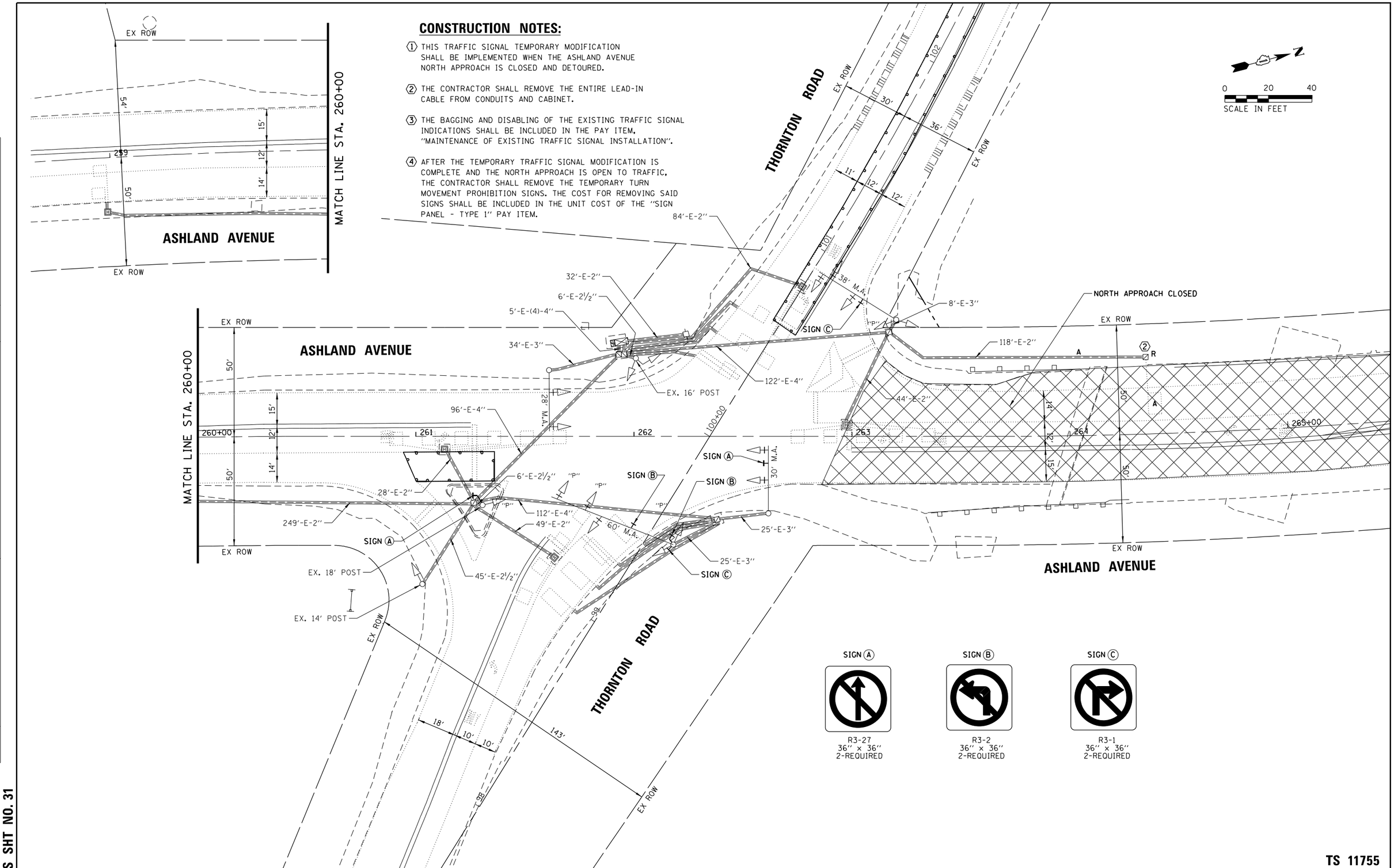
MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
WOOD STREET AND IL ROUTE 83 (SIBLEY BLVD.)

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	318
		CONTRACT NO. 60Y72		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONSTRUCTION NOTES:

1. THIS TRAFFIC SIGNAL TEMPORARY MODIFICATION SHALL BE IMPLEMENTED WHEN THE ASHLAND AVENUE NORTH APPROACH IS CLOSED AND DETOURED.
2. THE CONTRACTOR SHALL REMOVE THE ENTIRE LEAD-IN CABLE FROM CONDUITS AND CABINET.
3. THE BAGGING AND DISABLING OF THE EXISTING TRAFFIC SIGNAL INDICATIONS SHALL BE INCLUDED IN THE PAY ITEM, "MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION".
4. AFTER THE TEMPORARY TRAFFIC SIGNAL MODIFICATION IS COMPLETE AND THE NORTH APPROACH IS OPEN TO TRAFFIC, THE CONTRACTOR SHALL REMOVE THE TEMPORARY TURN MOVEMENT PROHIBITION SIGNS. THE COST FOR REMOVING SAID SIGNS SHALL BE INCLUDED IN THE UNIT COST OF THE "SIGN PANEL - TYPE 1" PAY ITEM.



TS 11755

FILE NAME = N:\Idot\150353\Traffic\Advance_Contract\AC_TS-Thornton_01_REM.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
	PLOT SCALE = 40'	DRAWN - FPB	REVISED -
	PLOT DATE = 1/27/2022	CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL TEMPORARY MODIFICATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
ASHLAND AVENUE AND THORNTON ROAD

SCALE: 1" = 40' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	319

CONTRACT NO. 62P45

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — NOTE BOOK NO. — BY — DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CH'KD — NOTE BOOK NO. — BY — DATE

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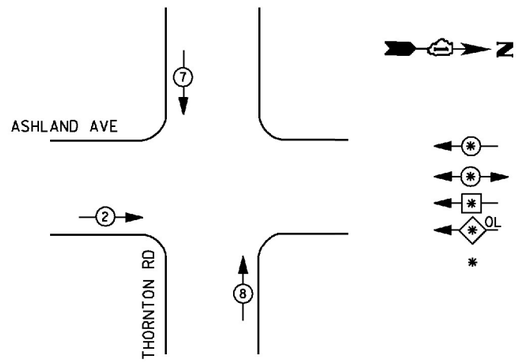
TS SHT NO. 31

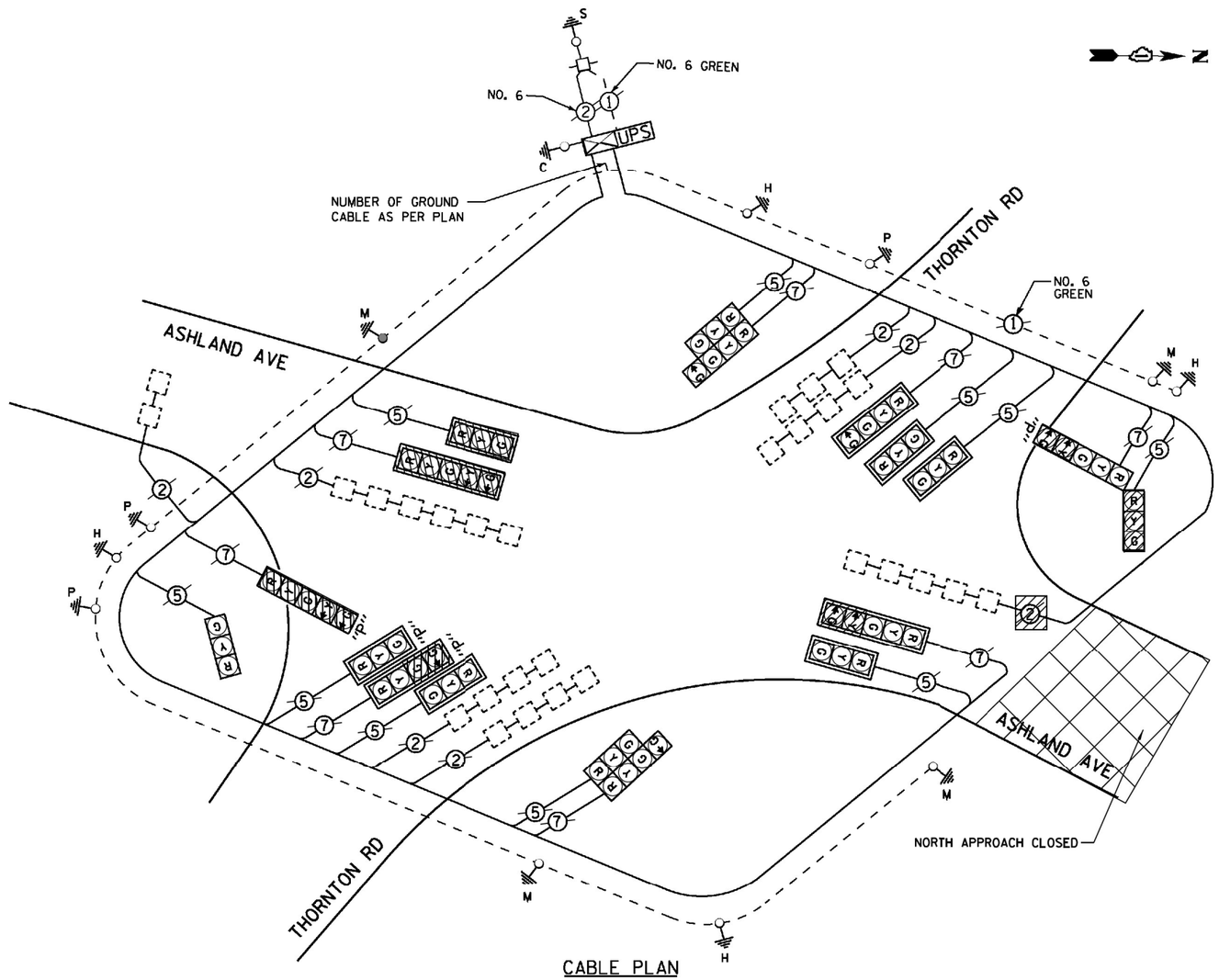
CONTROLLER SEQUENCE



LEGEND

- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- * NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



CABLE PLAN

LEGEND:

- BAGGED AND DISABLED

TYPE		NO. OF LAMPS	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL	(RED)	14	11	0.50	77.0
	(YELLOW)	14	20	0.05	14.0
	(GREEN)	14	12	0.45	75.6
ARROW		2	10	0.45	9.0
PED. SIGNAL			20	1.00	0.0
CONTROLLER		1	100	1.00	100.0
UPS		1	25	1.00	25.0
VIDEO SYSTEM			150	1.00	0.0
BLANK-OUT SIGN			25	0.05	0.0
FLASHER			0	0.00	0.0
STREET NAME SIGN			120	0.50	0.0
LUMINAIRE			250	0.50	0.0
				TOTAL =	300.6

TS SHT NO. 97

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CHKD / NOTE BOOK NO. / BY / DATE

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

FILE NAME = N:\Idot\150353\Traffic\Advance_Contract	USER NAME = fbariso	DESIGNED - EAJ	REVISED -
	AC_TS-Thornton_02_CAB EX.dgn	DRAWN - FPB	REVISED -
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 8/4/2021	DATE -	REVISED -

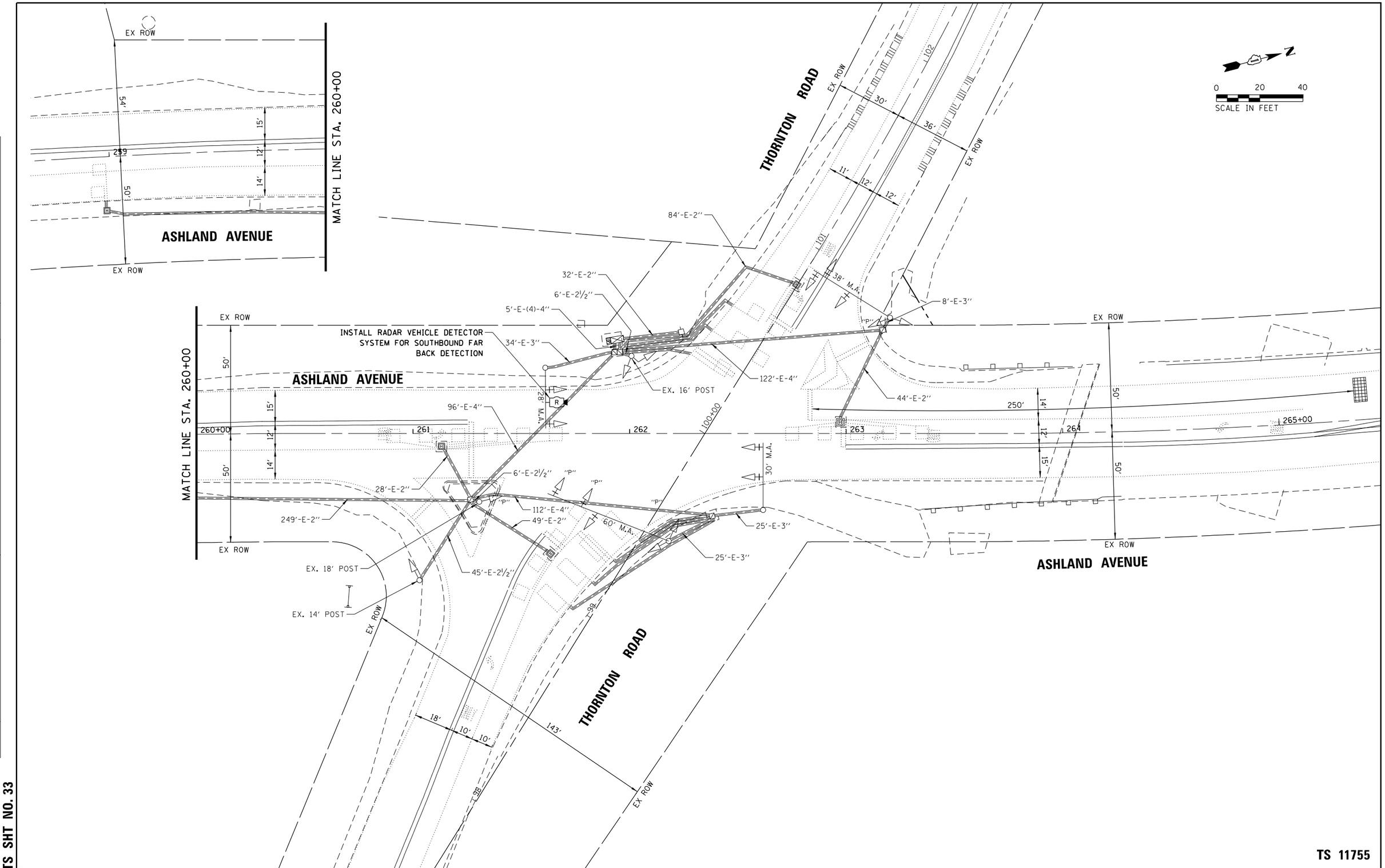
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN AND
TEMPORARY PHASE DESIGNATION DIAGRAM
ASHLAND AVENUE AND THORNTON ROAD

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	320
		CONTRACT NO. 60Y72		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



TS 11755

FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODIFICATION PLAN ASHLAND AVENUE AND THORNTON ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\Idot\150353\Traffic\Advance_Contract\	AC_TS-Thornton_03_MOD.dgn	DRAWN - FPB	REVISED -			2857	(145,146&146S-2)WRS&B-1	COOK	557	321
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -					CONTRACT NO. 62P45		
	PLOT DATE = 1/27/2022	DATE -	REVISED -		SCALE: 1" = 40' SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN NOTE BOOK NO. ___ SURVEYED PLOTTED ALIGNMENT CHECKED RT. OF WAY CHECKED CADD FILE NAME BY DATE

PROFILE NOTE BOOK NO. ___ SURVEYED PLOTTED GRADES CHECKED B.M. NOTED STRUCTURE NOTAT'NS CH'KD BY DATE

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Rosemont, Illinois 60018
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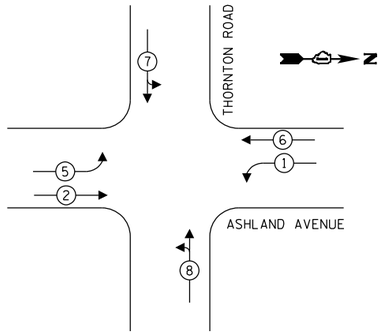
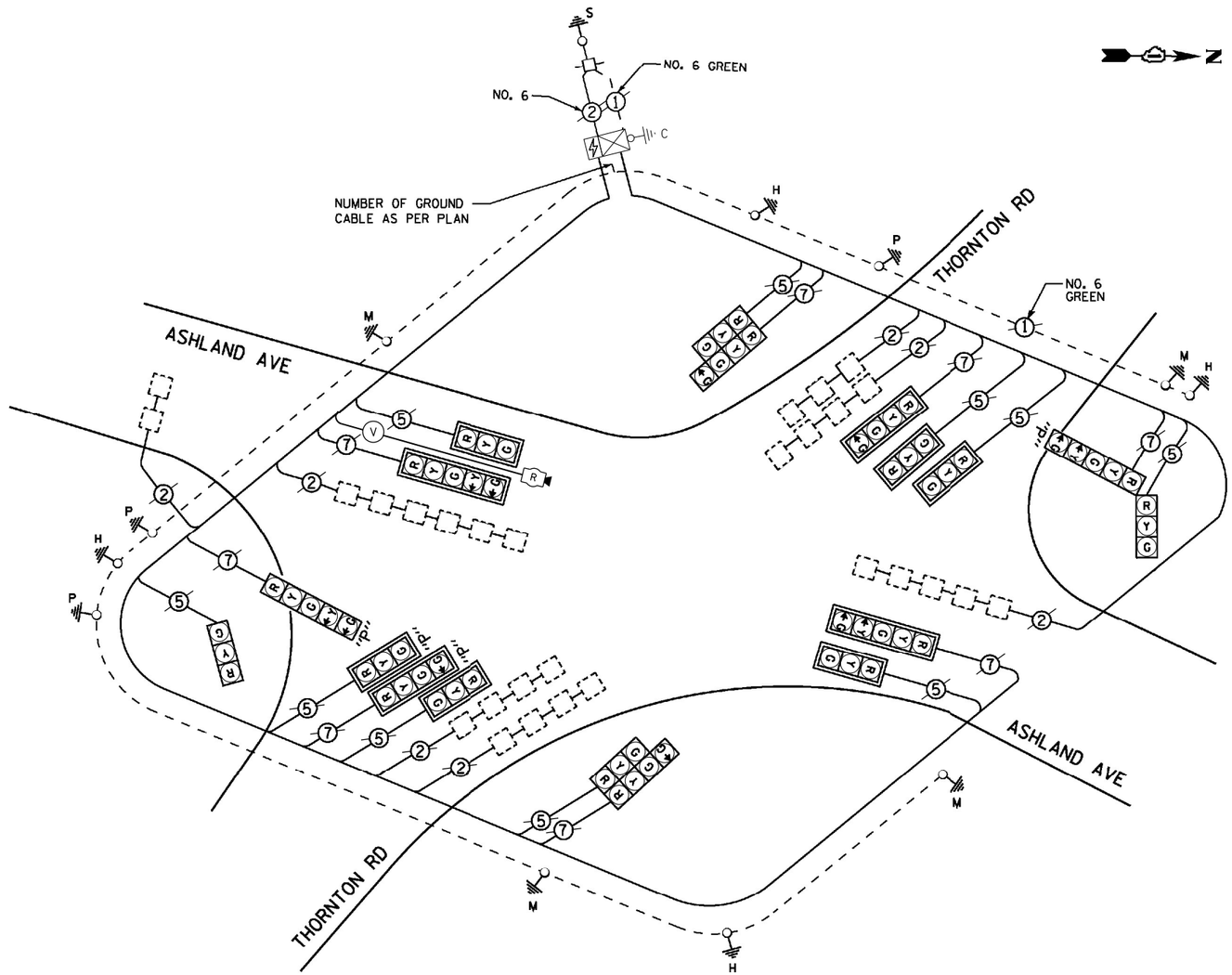
TS SHT NO. 33

CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP



CABLE PLAN

(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99.0
(YELLOW)	18	20	5	18.0
(GREEN)	22	12	45	118.8
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
RADAR SYSTEM	1	75	100	75.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	240	50	-
			TOTAL =	443.8

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: (708) 235-2692
COMPANY: COMED
ACCOUNT NUMBER: 05041-61013

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	27
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	275
REMOVE EXISTING HANDHOLE	EACH	1
RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, FAR BACK	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

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Rosemont, Illinois 60018
(847) 823-0500

PLAN: NOTE BOOK NO. ___ SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / BY / DATE

PROFILE: NOTE BOOK NO. ___ SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CH'KD / BY / DATE

TS SHT NO. 34

FILE NAME = N:\Idot\150353\Traffic\Advance_Contract\	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
	AC_TS-Thornton_04_CAB PR.dgn	DRAWN - FPB	REVISED -
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/27/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES
ASHLAND AVENUE AND THORNTON ROAD

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	322

CONTRACT NO. 62P45

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

CHRISTOPHER B. BURKE ENGINEERING LTD.
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Rosemont, Illinois 60018
(847) 922-9500

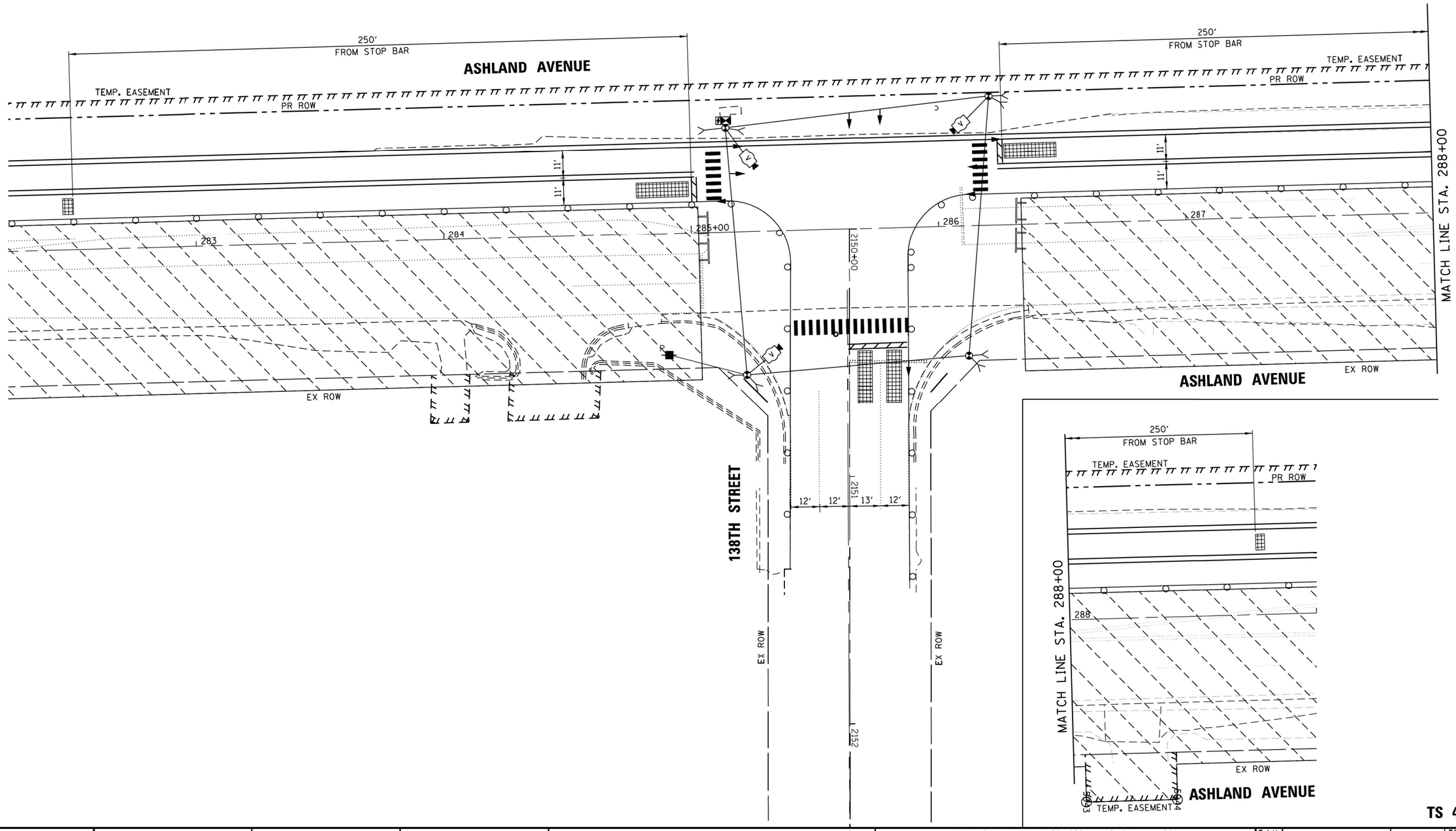
PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
CHANGES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
BY
DATE

PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
CHANGES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
BY
DATE

TS SHT NO. 100

0 20 40
SCALE IN FEET

MOT STAGE 1



TS 4045

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		DRAWN - FPB	REVISED -
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 8/4/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION
MOT STAGE 1
ASHLAND AVENUE AND 138TH STREET

SCALE:1" = 40' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	323
		CONTRACT NO. 60Y72		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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Rosemont, Illinois 60018
(847) 823-0500

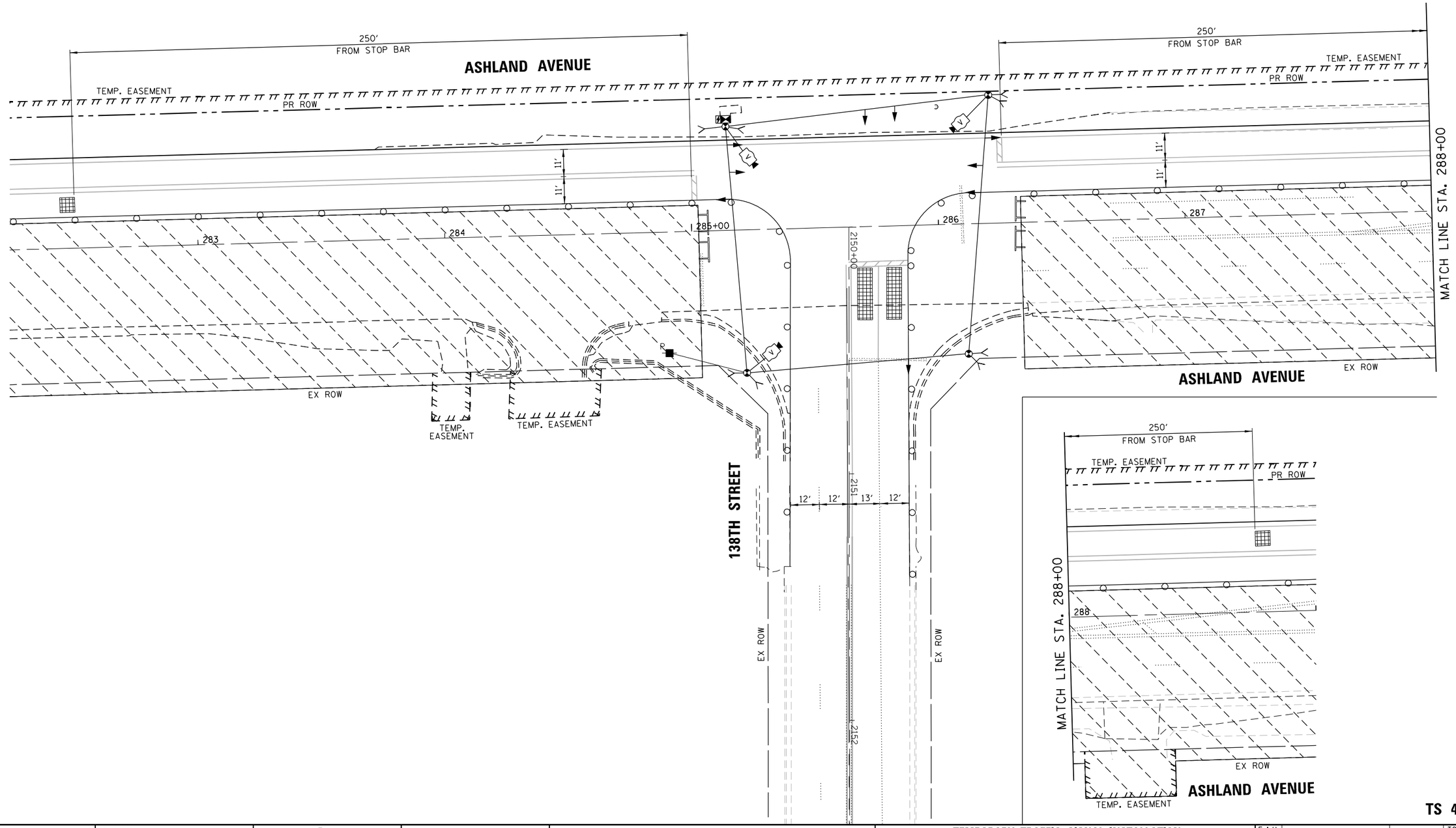
PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
C-ADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
BY
DATE

TS SHT NO. 36

0 20 40
SCALE IN FEET

MOT STAGE 1



TS 4045

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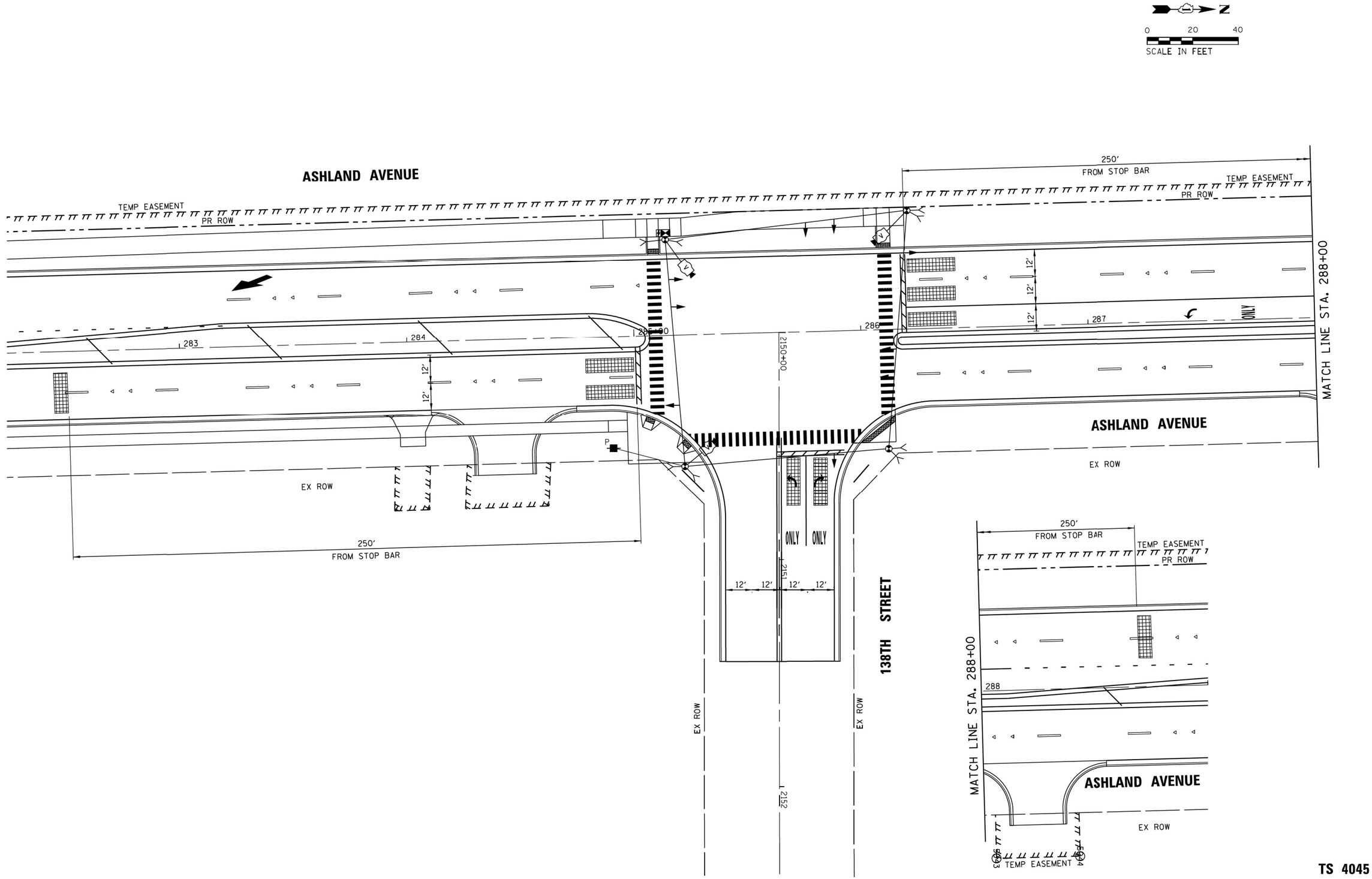
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/27/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION
MOT STAGE 1
ASHLAND AVENUE AND 138TH STREET

SCALE:1" = 40' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	324
		CONTRACT NO. 62P45		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TS 4045

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	PLOT SCALE = 40'	DRAWN - FPB	REVISED -
	PLOT DATE = 8/4/2021	CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION
FINAL GEOMETRY
ASHLAND AVENUE AND 138TH STREET

SCALE: 1" = 40' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	325
		CONTRACT NO. 60Y72		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROFILE | NOTE BOOK NO. | SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTATNS CHK'D | BY | DATE

PLAN | NOTE BOOK NO. | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | BY | DATE

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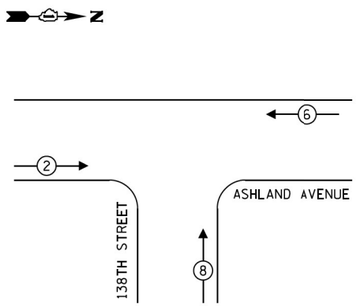
Rosemont, Illinois 60018
(847) 823-0500

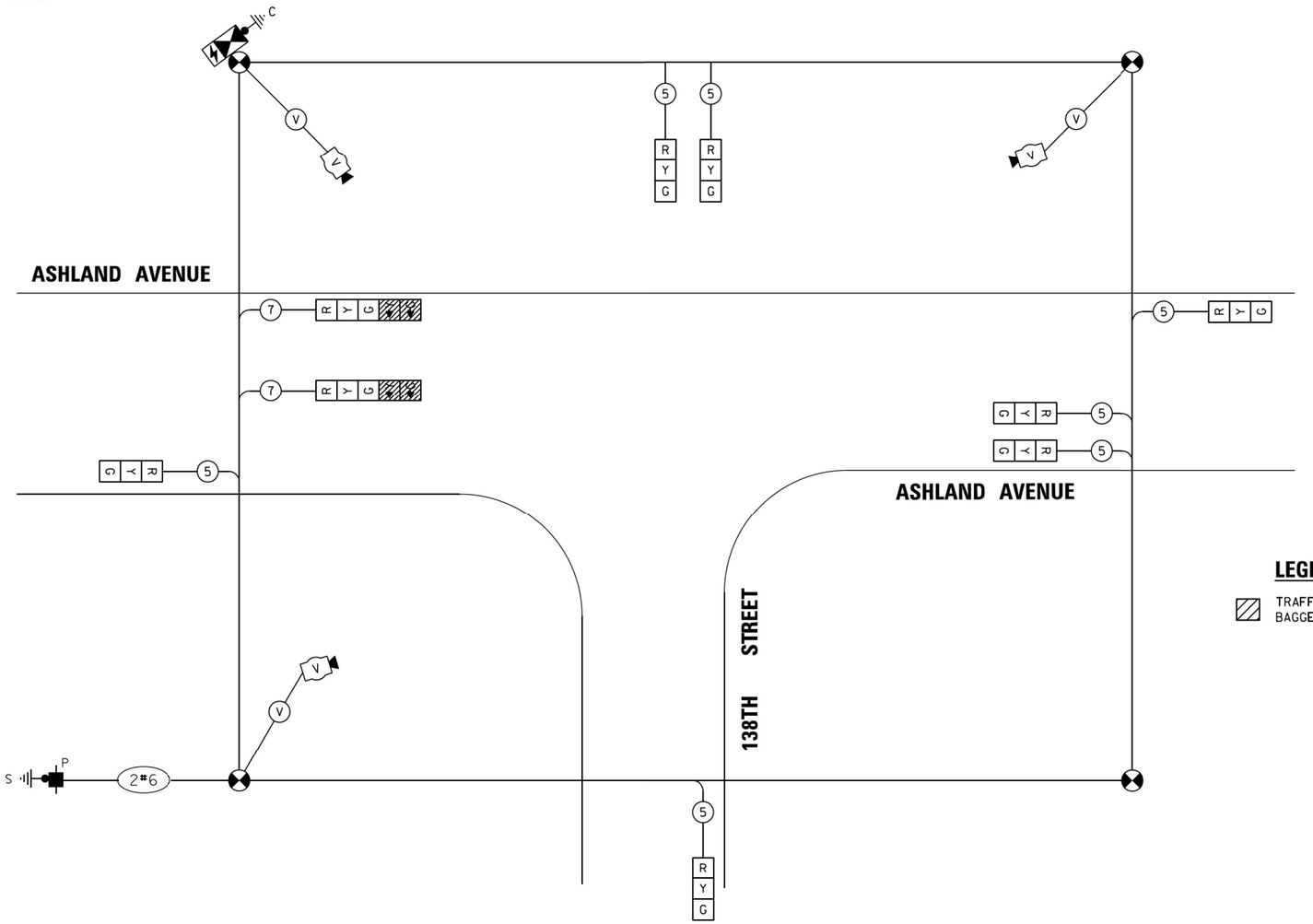
TS SHT NO. 362

TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP



LEGEND:

TRAFFIC SIGNAL EQUIPMENT BAGGED AND DISABLED

MOT STAGE 1
TEMPORARY CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	49.5
(YELLOW)	9	20	5	9.0
(GREEN)	9	12	45	48.6
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	382.1

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT:_____
PHONE:_____
COMPANY:_____
ACCOUNT NUMBER: ---_____

TS SHT NO. 104

TS 4045

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PROFILE | PLAN | SURVEYED | PLOTTED | DRAWN | CHECKED | B.M. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO. | BY | DATE

FILE NAME =	USER NAME = fbariso	DESIGNED - EAJ	REVISED -
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	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 8/4/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM ASHLAND AVENUE AND 138TH STREET

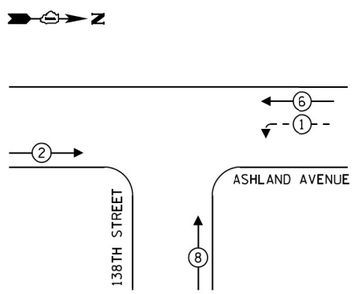
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

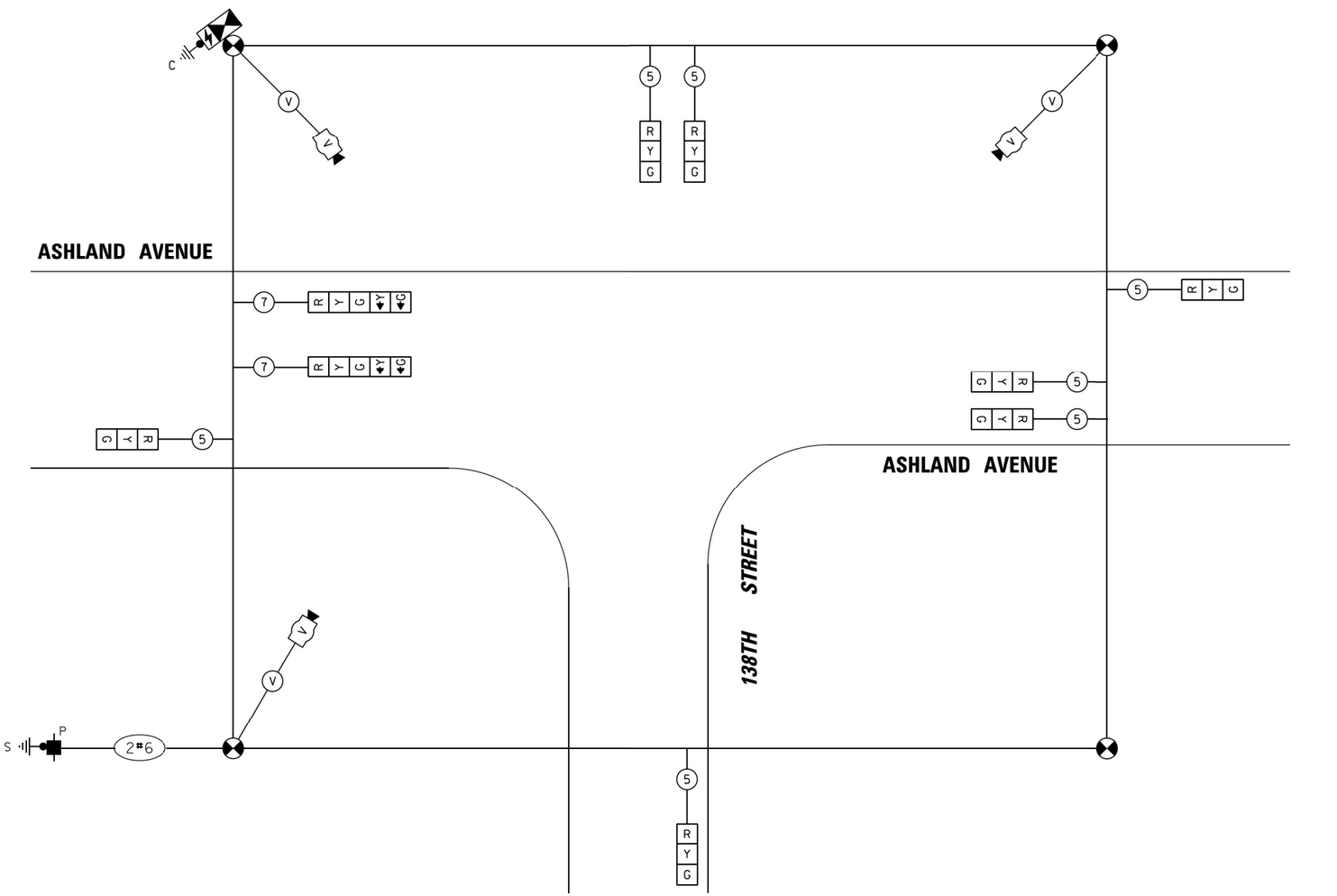
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	326
		CONTRACT NO. 60Y72		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TEMPORARY CONTROLLER SEQUENCE

LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP





TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	49.5
(YELLOW)	9	20	5	9.0
(GREEN)	9	12	45	48.6
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	386.1

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT:_____
PHONE:_____
COMPANY:_____
ACCOUNT NUMBER: ---_____

EXISTING GEOMETRY, MOT STAGE 2, AND FINAL GEOMETRY
TEMPORARY CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 103

TS 4045

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Rosemont, Illinois 60018
(847) 823-0500

PROFILE — SURVEYED — PLOTTED — CHECKED — DRAWN — CHECKED — B.M. NOTED — STRUCTURE NOTATING CHKD — NOTE BOOK — NO. ____ — BY — DATE

PLAN — SURVEYED — PLOTTED — CHECKED — DRAWN — CHECKED — ALIGNMENT CHECKED — RT. OF WAY CHECKED — CADD FILE NAME — NOTE BOOK — NO. ____ — BY — DATE

FILE NAME = N:\Idot\150353\Traffic\Advance_Contract\	USER NAME = fbariso	DESIGNED - EAJ	REVISED -
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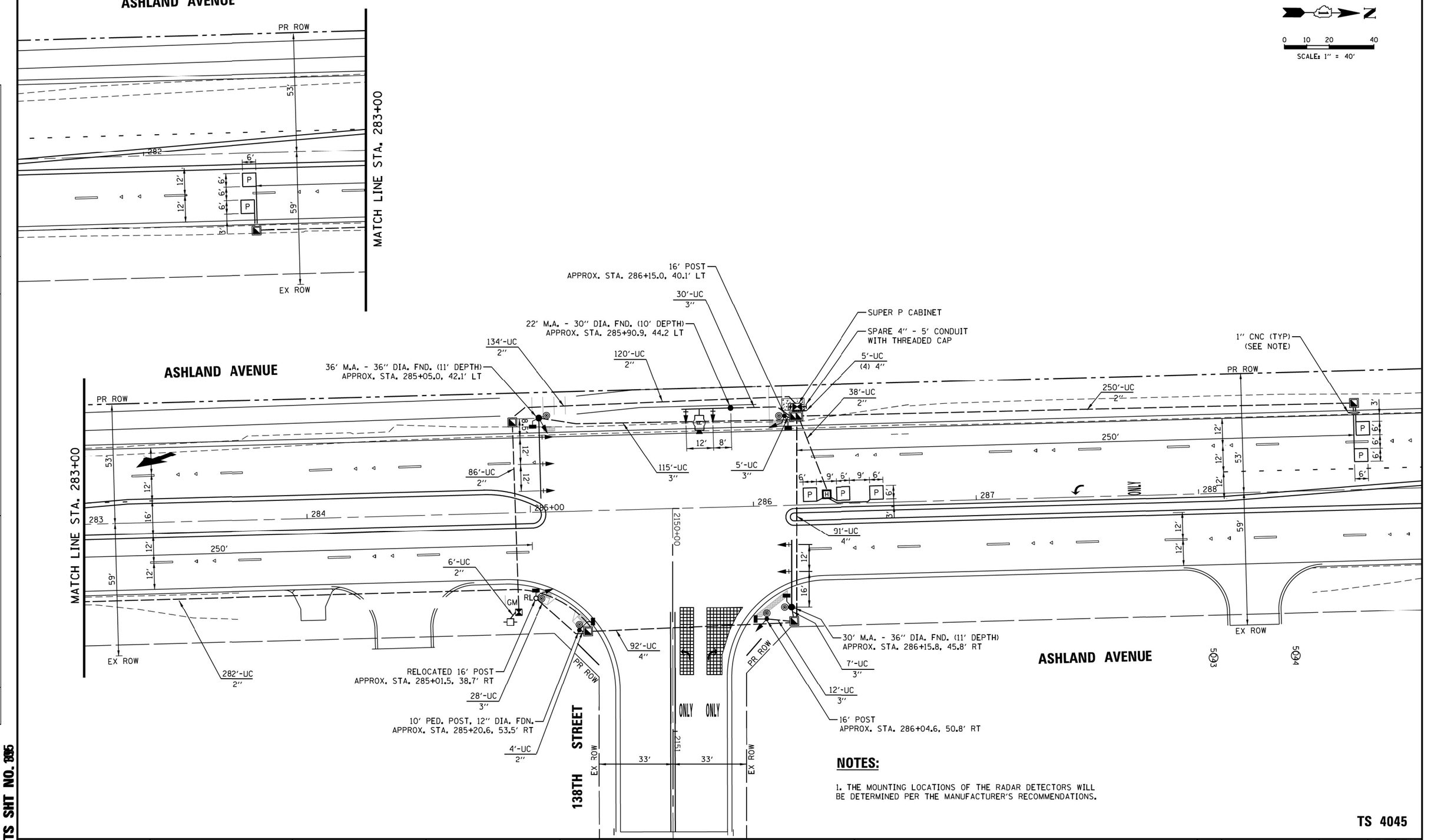
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 8/4/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM ASHLAND AVENUE AND 138TH STREET

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	327
		CONTRACT NO. 60Y72		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

1. THE MOUNTING LOCATIONS OF THE RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.

TS 4045

FILE NAME = N:\Idot\150353\Traffic\Advance_Contract\AC_TS-138th_07_TSD.dgn	USER NAME = fbariso	DESIGNED - EAJ	REVISED -
		DRAWN - FPB	REVISED -
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 8/4/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ASHLAND AVENUE AND 138TH STREET

SCALE: 1" = 40' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	328
		CONTRACT NO. 60Y72		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

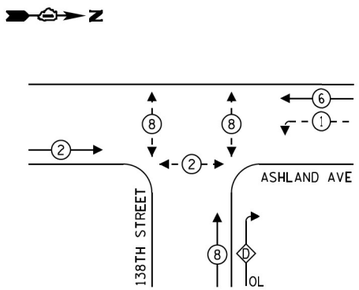
PLAN
NOTE BOOK NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CH'KD
BY
DATE

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

TS SHT NO. 3095

PROPOSED CONTROLLER SEQUENCE

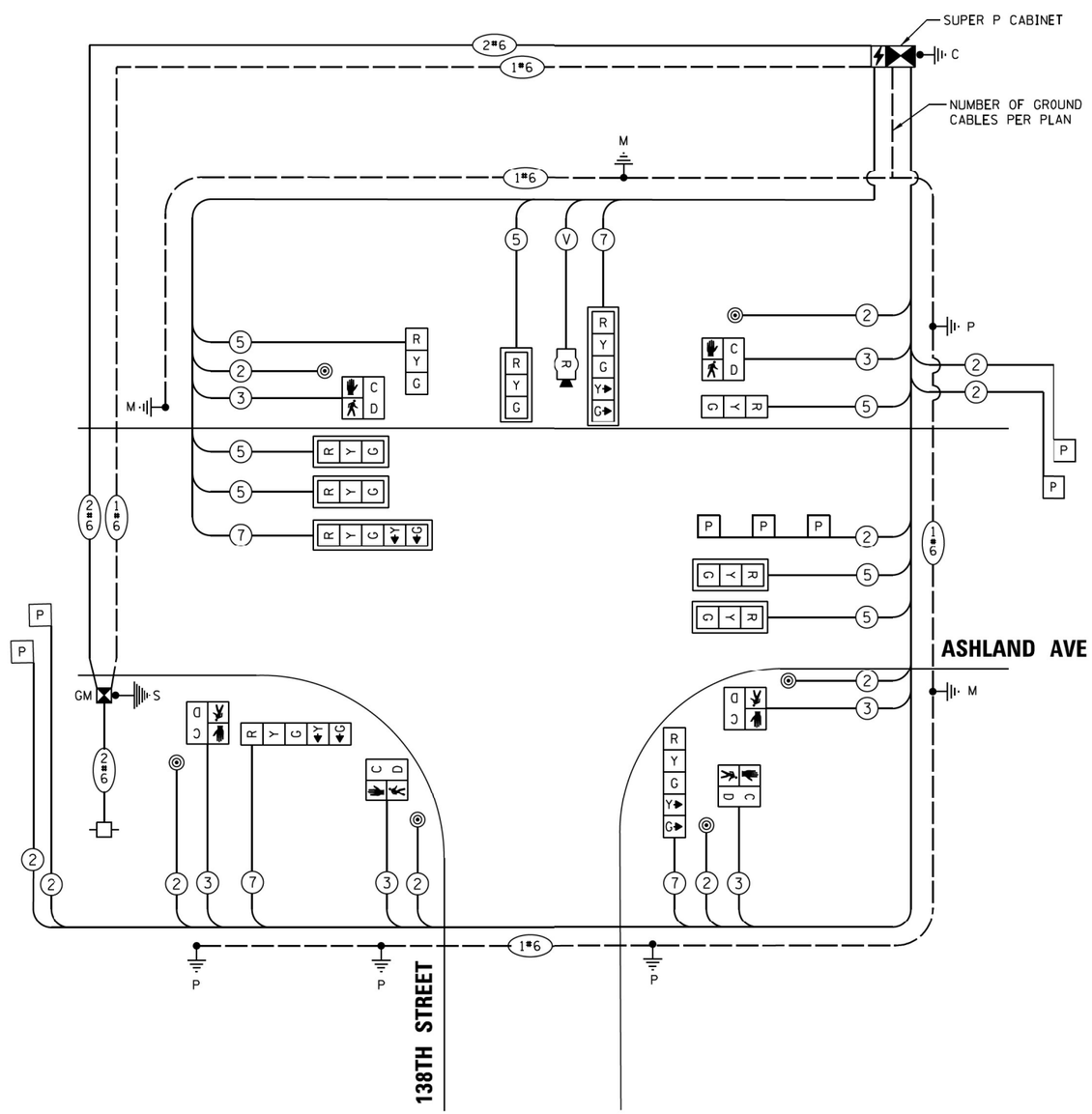


LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
D	=	8	+	1



CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11	11	50	60.5
(YELLOW)	11	20	5	11.0
(GREEN)	11	12	45	59.4
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	533.9

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT:
PHONE:
COMPANY:
ACCOUNT NUMBER: ---

TS SHT NO. 106

TS 4045

FILE NAME = N:\Idot\150353\Traffic\Advance_Contract	USER NAME = fbariso	DESIGNED - EAJ	REVISED -
	AC_TS-138th_08_CAB 1.dgn	DRAWN - FPB	REVISED -
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 8/4/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND PHASE DESIGNATION DIAGRAM
ASHLAND AVENUE AND 138TH STREET

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	329
		CONTRACT NO. 60Y72		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

PROFILE | NOTE BOOK NO. | SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTATNS CHKD | BY | DATE

PLAN | NOTE BOOK NO. | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | BY | DATE

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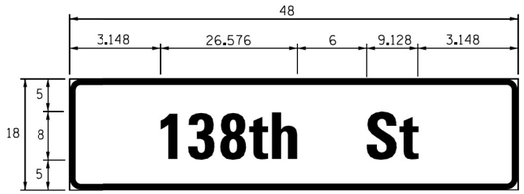
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

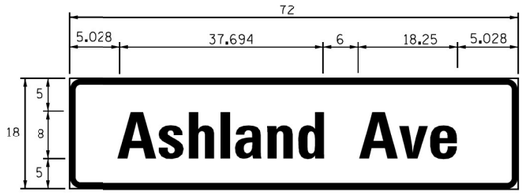
MAST ARM MOUNTED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE

SIGN PANEL – TYPE 1



DESIGN SERIES	AREA (SQ. FT.)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.0	1	ZZ	2



DESIGN SERIES	AREA (SQ. FT.)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.0	1	ZZ	1

NOTE:
FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION, PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGN DETAILS.

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	21
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	715
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	197
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	208
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	959
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,001
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,001
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	695
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	853
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	168
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	766
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	22
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	7
INDUCTIVE LOOP DETECTOR	EACH	3
PREFORMED DETECTOR LOOP	FOOT	231
PEDESTRIAN PUSH-BUTTON	EACH	6
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	6
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

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PROFILE — SURVEYED — PLOTTED — DRAWN — CHECKED — NOTE BOOK — NO. — B.M. NOTED — STRUCTURE NO. — TAPE NO. — CKD

TS SHT NO. 107

TS 4045

FILE NAME = N:\Idot\150353\Traffic\Advance_Contract\AC_TS-138th_09_CAB 2.dgn	USER NAME = fbarlso	DESIGNED - EAJ	REVISED -
		DRAWN - FPB	REVISED -
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 8/4/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
ASHLAND AVENUE AND 138TH STREET

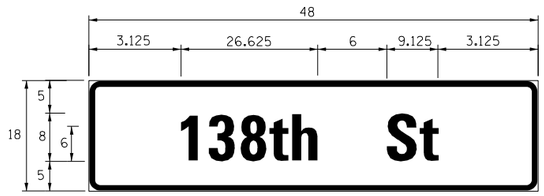
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	330
		CONTRACT NO. 60Y72		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

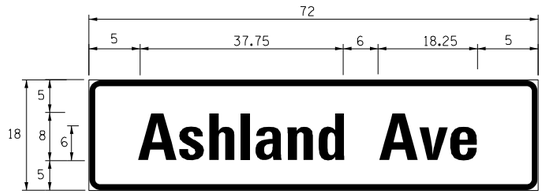
MAST ARM MOUNTED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE

SIGN PANEL – TYPE 1



DESIGN SERIES	AREA (SQ. FT.)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.0	1	ZZ	2



DESIGN SERIES	AREA (SQ. FT.)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.0	1	ZZ	1

NOTE:
FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION, PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGN DETAILS.

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	21
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	616
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	87
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	357
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	837
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	879
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,802
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	729
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,788
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	70
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	670
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	37
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	7
INDUCTIVE LOOP DETECTOR	EACH	5
PREFORMED DETECTOR LOOP	FOOT	231
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	6
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

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PROFILE: SURVEYED ___ DATE ___ / PLOTTED ___ / NOTE BOOK ___ NO. ___ / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD / BY / DATE

TS SHT NO. 43

TS 4045

FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
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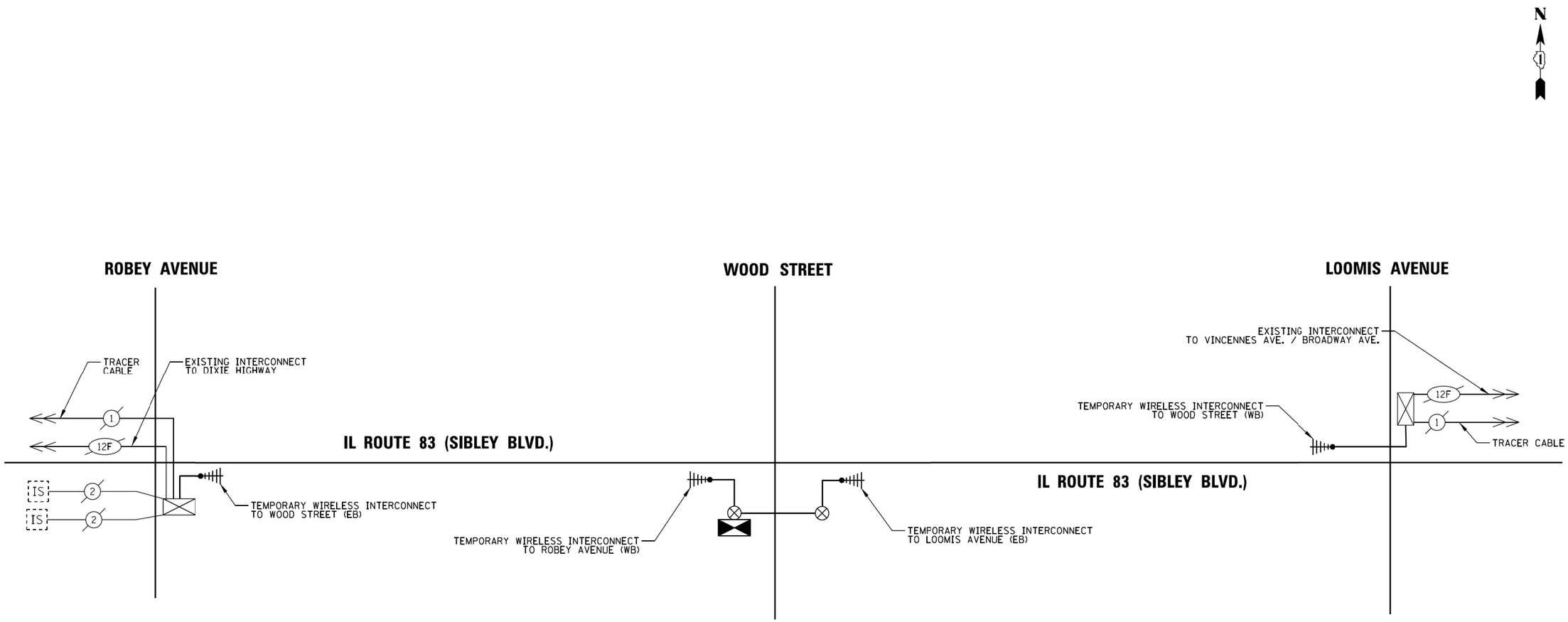
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/27/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
ASHLAND AVENUE AND 138TH STREET

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	331
		CONTRACT NO. 62P45		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

EAGLE 3J

FILE NAME = N:\Idot\150353\Traffic\Advance_Contract\AC_TS-TMP_02_Sch_IL83.dgn	USER NAME = fbariso	DESIGNED - EAJ	REVISED -
		DRAWN - FPB	REVISED -
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 8/4/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT SCHEMATIC
IL ROUTE 83 (SIBLEY BLVD)
FROM ROBEY AVENUE TO LOOMIS STREET

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	332

CONTRACT NO. 60Y72

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | ECON 155

PLAN
NOTE BOOK NO. ____
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY | DATE

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PROFILE
NOTE BOOK NO. ____
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
BY | DATE

TS SHT NO. 1132

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PLAN
SURVEYED
PLOTTED
DRAWN
CHECKED
NOTE BOOK
NO.

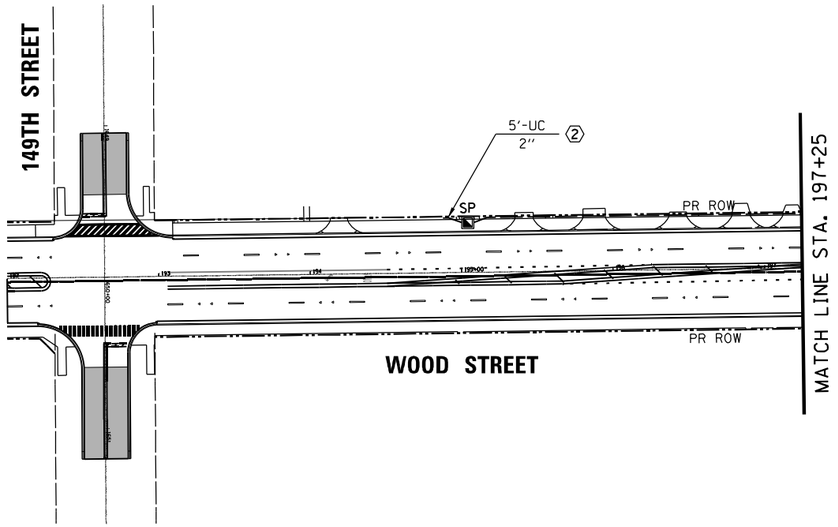
PROFILE
SURVEYED
PLOTTED
DRAWN
CHECKED
NOTE BOOK
NO.

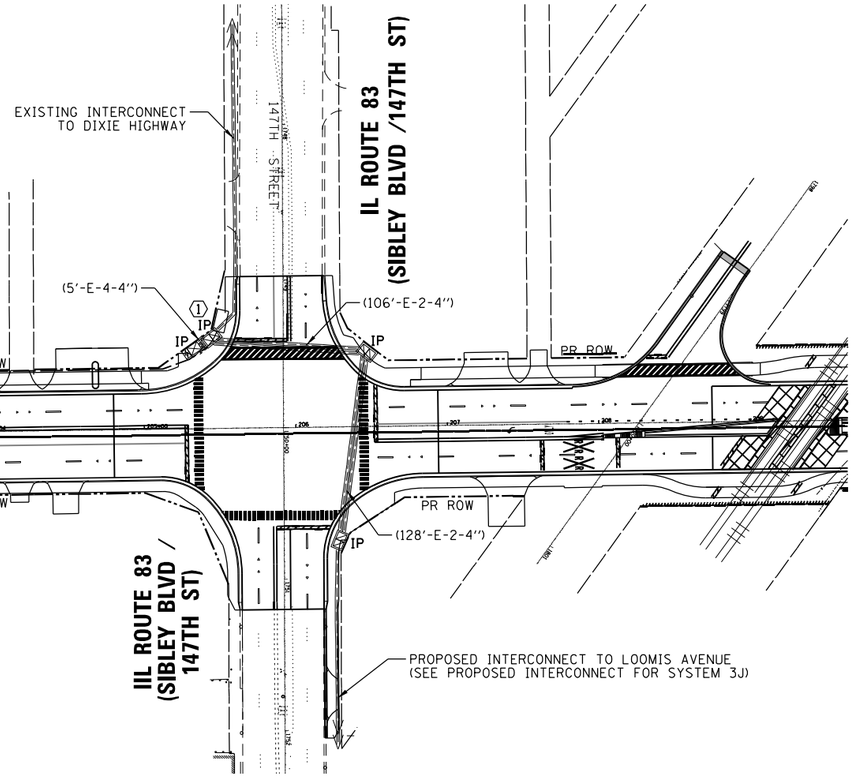
BY | DATE

ALIGNMENT CHECKED
RT. OF WAY CHECKED
C-ADD FILE NAME

CROSS SECTIONS CHKD
STRUCTURE NOTATIONS CHKD

TS SHT NO. 45





0 50 100
SCALE IN FEET

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,050
HANDHOLE	EACH	2

CONSTRUCTION NOTE:

1. ONLY CONDUIT AND HANHOLES SHOWN ON THIS INTERCONNECT PLAN SHEET WILL BE INSTALLED IN THIS CONTRACT. THE TRACER AND FIBER OPTIC CABLES WILL BE INSTALLED BY OTHERS IN A SEPARATE CONTRACT.
2. STUB CONDUIT TO THE SOUTH FOR FUTURE USE.

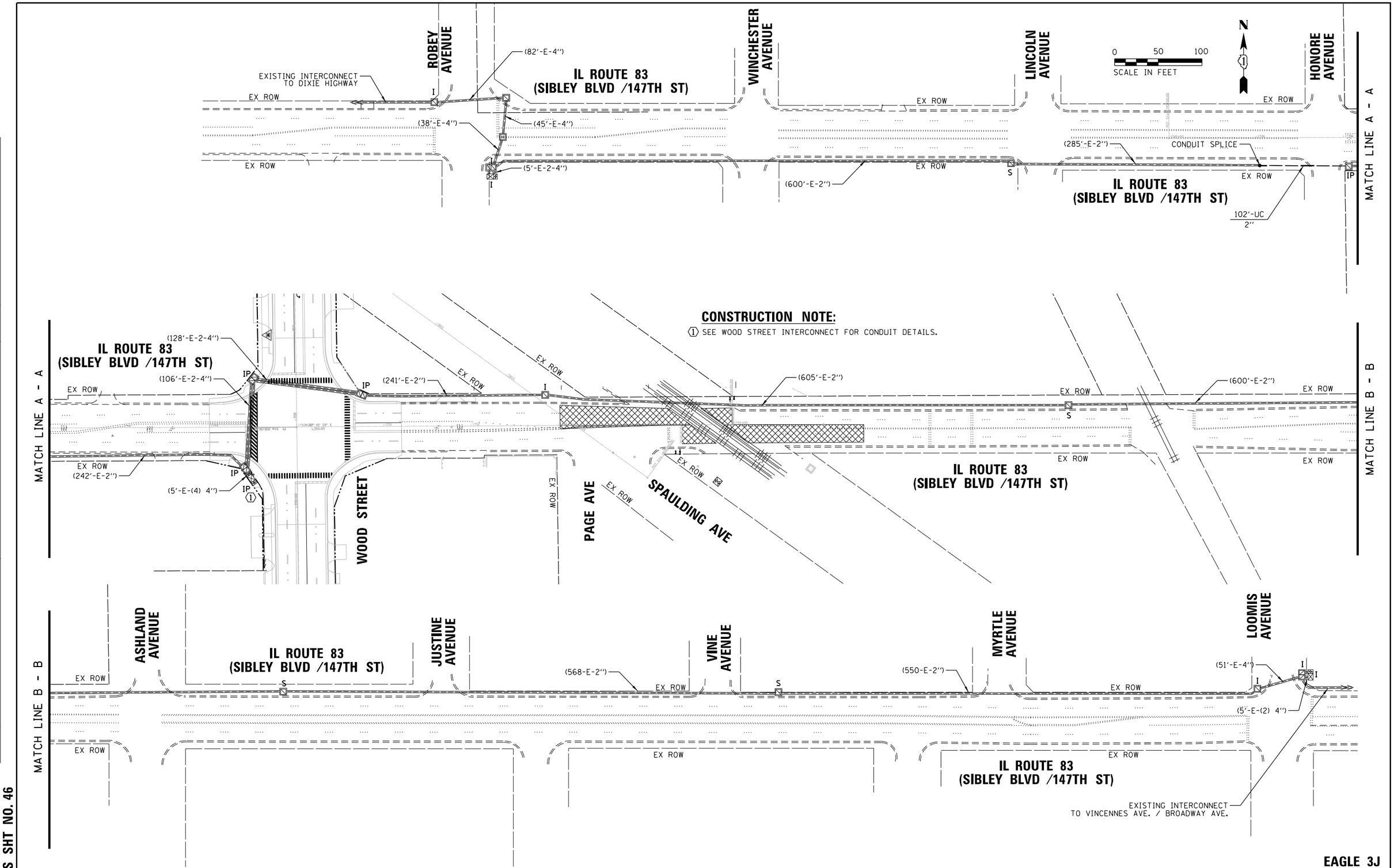
EAGLE 3B

FILE NAME = N:\Idot\150353\Traffic\Advance_Contract\AC_TS-INT_01_WOOD.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
		DRAWN - FPB	REVISED -
	PLOT SCALE = 100'	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/27/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
WOOD STREET
FROM 149TH STREET TO IL 83 (SIBLEY BLVD /147TH STREET)
SCALE: 1" = 100' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	333
		CONTRACT NO. 62P45		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EAGLE 3J

PLAN
NOTE BOOK NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

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PROFILE
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PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CH'KD
BY
DATE

TS SHT NO. 46

FILE NAME = N:\Idot\150353\Traffic\Advance_Contract\AC_TS-INT_02_IL 83.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
		DRAWN - FPB	REVISED -
	PLOT SCALE = 100'	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/27/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

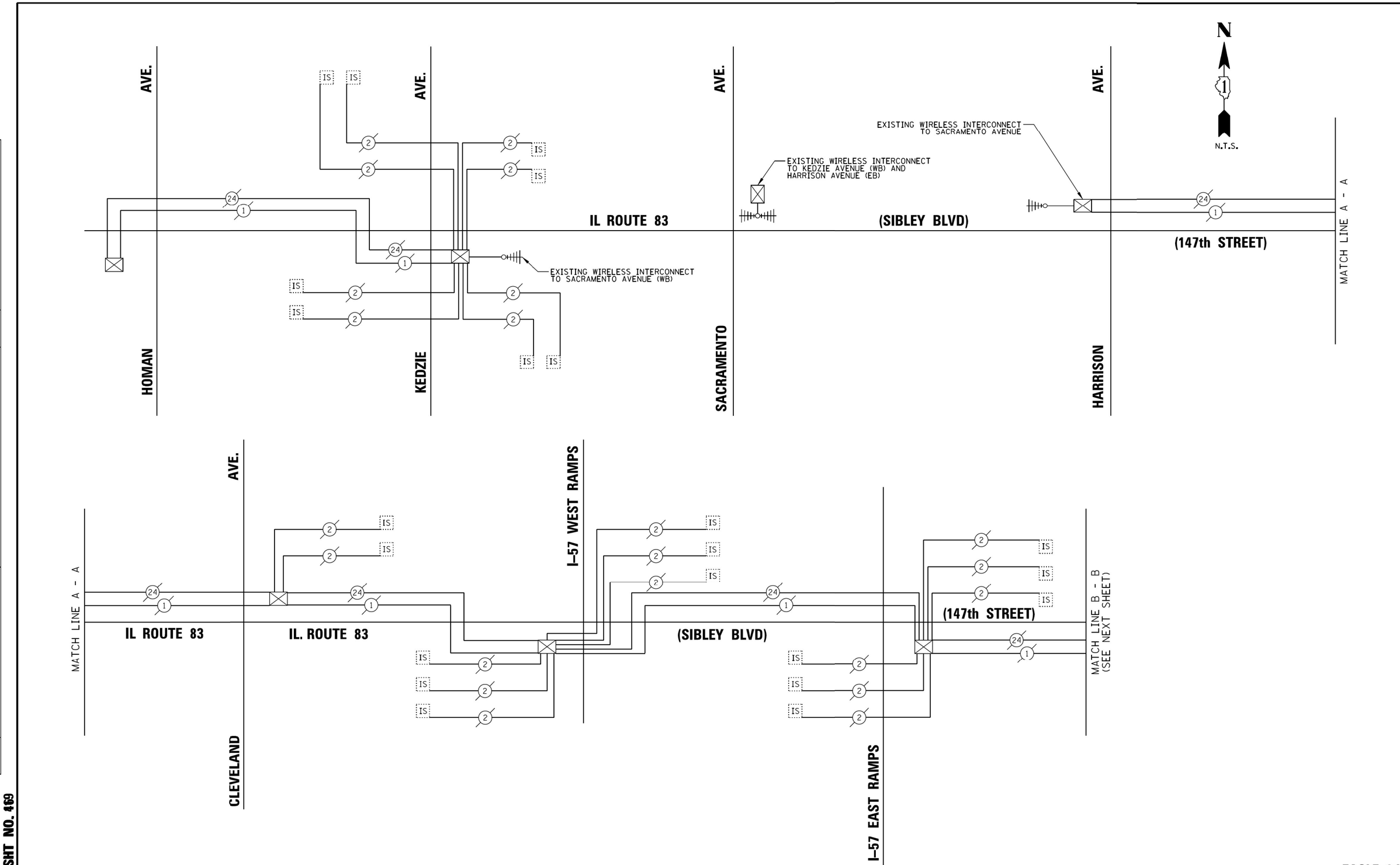
INTERCONNECT PLAN
IL ROUTE 83 (SIBLEY BLVD /147TH ST)
FROM ROBEY AVENUE TO LOOMIS AVENUE

SCALE: 1" = 100' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	334

CONTRACT NO. 62P45

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



EAGLE 3J

TS SHT NO. 469

PROFILE | SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTAT'NS CH'KD | NOTE BOOK NO. | BY | DATE

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PLAN | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK NO. | BY | DATE

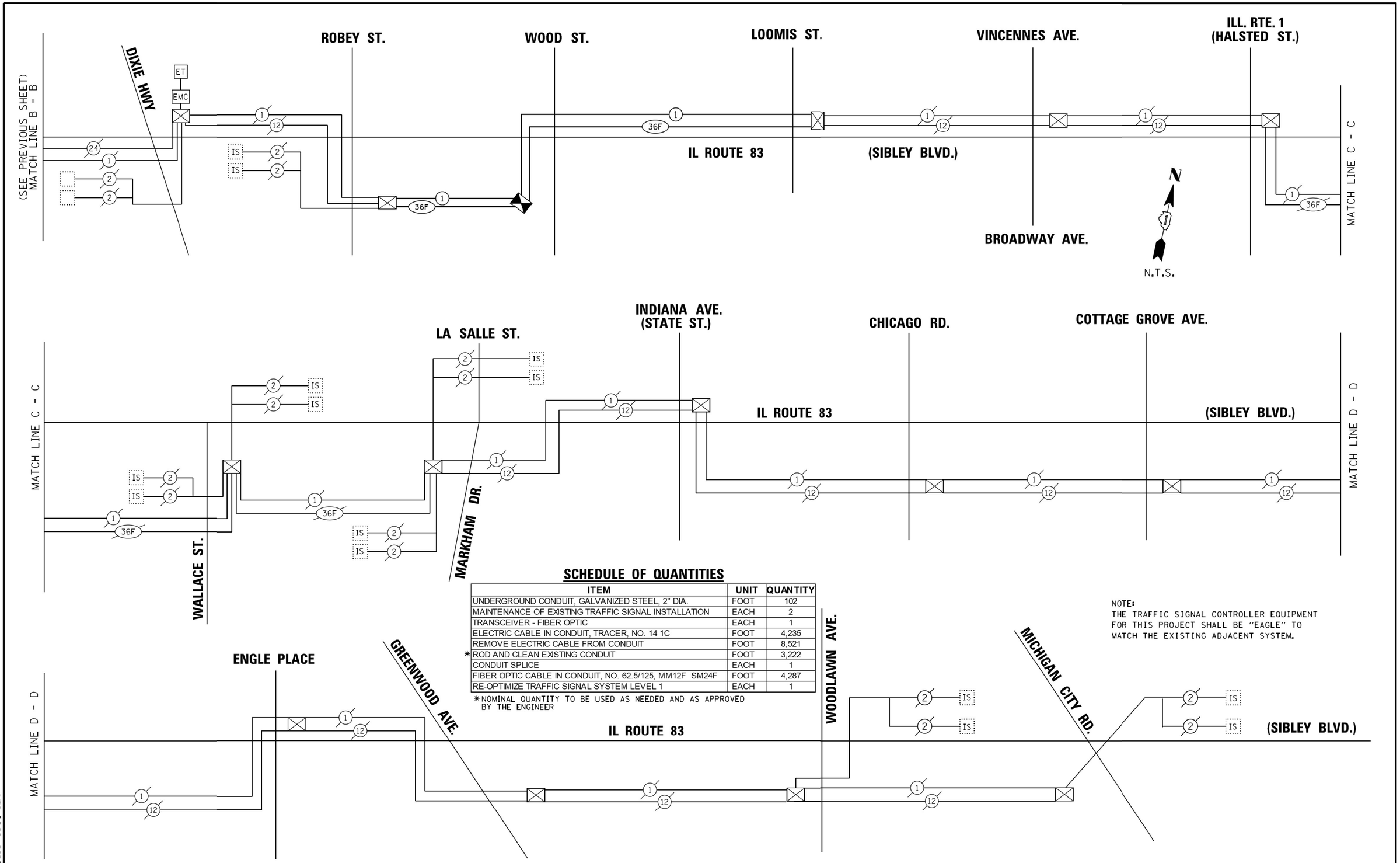
FILE NAME = N:\Idot\150353\Traffic\Advance_Contract\AC_TS-INT_03_-Schl_IL83.dgn	USER NAME = fbariso	DESIGNED - EAJ	REVISED -
		DRAWN - FPB	REVISED -
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -
	PLOT DATE = 8/4/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC – SHEET 1 OF 2
IL ROUTE 83 (SIBLEY BLVD)
FROM HOMAN AVENUE TO I-57 EAST RAMPS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	335
		CONTRACT NO. 60Y72		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	102
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	4,235
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8,521
* ROD AND CLEAN EXISTING CONDUIT	FOOT	3,222
CONDUIT SPLICE	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	4,287
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

* NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY THE ENGINEER

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

EAGLE 3J

TS SHT NO. 420

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PROFILE — NOTE BOOK NO. — SURVEYED — PLOTTED — GRADES CHECKED — B.M. NOTED — STRUCTURE NOTAT'NS CH'KD — BY — DATE

FILE NAME = N:\Idot\150353\Traffic\Advance_Contract\AC_TS-INT_04_-Sch2_IL83.dgn	USER NAME = fbariso	DESIGNED - EAJ	REVISED -
	PLOT SCALE = 40'	DRAWN - FPB	REVISED -
	PLOT DATE = 8/4/2021	CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC – SHEET 2 OF 2
IL ROUTE 83 (SIBLEY BLVD)
FROM DIXIE HIGHWAY TO MICHIGAN CITY ROAD

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	336

CONTRACT NO. 60Y72

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

LIGHTING GENERAL NOTES

1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A PERMIT FROM THE CITY/ VILLAGE BEFORE THE START OF WORK. ANY COST FOR PERMIT SHALL BE INCLUDED IN THE CONTRACT.

2. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE LIGHTING SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE AT (800) 892-0123. FOR THE LOCATIONS OF IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES CALL MEADE ELECTRIC CO. AT (773) 287-7672.

3. BEFORE INSTALLING LIGHT STANDARDS NEAR OVERHEAD AND UNDERGROUND ELECTRIC UTILITIES THE CONTRACTOR SHALL CALL COM ED FOR LOCATION APPROVAL AND MINIMUM CLEARANCE REQUIREMENTS.

4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/ DIRECTION AND MEANS/METHODS OF CONSTRUCTION.

5. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:

   A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AS PREPARED BY IDOT.

   B. "THE NATIONAL ELECTRICAL CODE".

   C. MUNICIPAL CODES & STANDARDS.

6. THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE NOT INTENDED TO SHOW EVERY AND ALL DETAILS OF WORK TO BE PERFORMED OR EQUIPMENT TO BE SUPPLIED. THE INTENT OF THE CONTRACT DRAWINGS AND SPECIFICATIONS IS TO ILLUSTRATE THE CONCEPTUAL DESIGN AND LAYOUT. THE CONTRACTOR SHALL BE KNOWLEDGEABLE AND REGULARLY ENGAGED IN THE TYPE OF WORK DESCRIBED BY THESE CONTRACT DRAWINGS AND SPECIFICATIONS AND SHALL BE RESPONSIBLE FOR UNDERSTANDING THEIR INTENT. ANY WORK TO BE PERFORMED OR ITEM OF EQUIPMENT TO BE SUPPLIED WHICH IS NOT SPECIFICALLY CALLED FOR BY THESE CONTRACT DRAWINGS AND SPECIFICATIONS, BUT WHICH IS NECESSARY TO PROVIDE A COMPLETE AND SUCCESSFUL WORKING SYSTEM SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK AT NO ADDITIONAL COST TO THE CONTRACT.

7. NO MATERIALS SHALL BE DELIVERED TO THE JOB SITE UNTIL ALL PERTINENT EQUIPMENT SUBMITTALS HAVE BEEN REVIEWED BY THE ENGINEER.

8. ALL UNDERGROUND LIGHTING WIRING SHALL BE XLP TYPE-USE, EXTRA ABRASION RESISTANCE, 600 VOLTS, INSTALLED IN SCH 40 HDPE CONDUIT A MINIMUM 30 INCHES BELOW FINISHED GRADE, FOLLOWING THE ROADWAY OR SIDEWALK EDGE.

9. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, (IF APPLICABLE) AND HAVE BEEN REVIEWED BY THE ENGINEER.

10. TO MAINTAIN THE STRUCTURAL INTEGRITY OF LIGHT POLES WITH LUMINAIRE ARMS, THEY SHALL NOT BE ERECTED AND LEFT TO STAND WITHOUT LUMINAIRES.

11. THE LIGHT POLE LOCATIONS SHALL COMPLY WITH THE MINIMUM CLEAR WIDTH FOR AN ACCESSIBLE ROUTE FOR SIDEWALKS PER CURRENT AMERICAN WITH DISABILITIES ACT (ADA) REQUIREMENTS (COMPLY WITH IDOT BDE CHAPTER 17-4.04 AND PROWAG R301.1).

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF THE TOP OF FOUNDATION ELEVATION WITH THE FINISHED GRADE.

13. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT.

14. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL PROPOSED ELECTRICAL EQUIPMENT FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER. ALL UTILITIES SHALL BE LOCATED PRIOR TO MARKING PROPOSED ELECTRICAL EQUIPMENT.

15. THE ELECTRICAL CONTRACTOR SHALL FURNISH TWO SETS OF FULL SIZE RECORD DRAWINGS TO THE ENGINEER UPON COMPLETION OF THE LIGHTING AND ELECTRICAL IMPROVEMENTS. THE DRAWINGS SHALL SHOW THE INSTALLED LOCATIONS OF ALL LIGHT POLES, UNDERGROUND CONDUITS/WIRING, HANDHOLES, JUNCTION BOXES AND CONTROLLER CABINETS. THE DRAWINGS WILL BE REVIEWED BY THE ENGINEER.

16. UPON COMPLETION OF THE PROPOSED LIGHTING IMPROVEMENTS, THE CONTRACTOR SHALL PERFORM ELECTRICAL TESTING AND VERIFY THAT THE INSTALLATION COMPLIES WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS. ALL ELECTRICAL TESTING SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER.

17. ALL STEEL SHALL BE FROM DOMESTIC SOURCE.

LIGHTING BILL OF MATERIALS

IDOT CODE NUMBER	DESCRIPTION	UNIIT	TOTAL QUANTITY
20800150	TRENCH BACKFILL	CY	20
*80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
*80400200	ELECTRIC UTILITY SERVICE CONNECTION	LSUM	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	25
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	965
81028730	UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 1 1/4" DIA.	FOOT	4,485
81400100	HANDHOLE	EACH	2
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP TYPE USE) 1/C NO. 10	FOOT	1,300
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP TYPE USE) 1/C NO. 6	FOOT	20,900
81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP TYPE USE) 1/C NO. 2	FOOT	75
81800240	AERIAL CABLE, 2-1/C NO.8 WITH MESSENGER	EACH	405
82110007	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	16
82110009	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION I	EACH	18
82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240 VOLT, 100AMP	EACH	1
83050000	LIGHT POLE, ALUMINUM, 47.5 M.H., 12 FT. MAST ARM	EACH	12
83050900	LIGHT POLE, ALUMINUM, 47.5 M.H., 2-12 FT. MAST ARMS	EACH	3
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	90
83600365	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8'	EACH	6
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	15
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	28
84200804	REMOVAL OF POLE FOUNDATION	EACH	28
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
*X0327485	MAST ARM, STREET LIGHTING, 15'	EACH	8
*X8250091	COMBINATION LIGHTING CONTROLLER	EACH	1
*X8410141	REMOVAL OF TEMPORARY LUMINAIRE	EACH	8
*Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	26
*Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12

ABBREVIATIONS

A	AMPS
CKT	CIRCUIT
CNC	COILABLE NON-METALLIC CONDUIT
DIA	DIAMETER
FT	FOOT
FOC	FACE OF CURB
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HDPE	HIGH DENSITY POLYETHYLENE
HH	HAND HOLE
HPS	HIGH PRESSURE SODIUM
PVC	POLYVINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL CONDUIT
ROW	RIGHT OF WAY
SS	STAINLESS STEEL
STA	STATION
V	VOLTS
W	WATTS
WR	WEATHER RESISTANT

CAUTION!
NOTICE TO CONTRACTOR:

THE CONTRACTOR IS SPECIFICALLY CAUTIONED TO THE LOCATION AND/OR ELEVATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THESE PLANS. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ENGINEER OF ANY EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS.

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(847) 922-0500

PLAN / PROFILE
SURVEYED
PLOTTED
CHECKED
NOTE BOOK
NO.
ALIGNMENT CHECKED
R.T. OF WAY CHECKED
C400 FILE NAME
STRUCTURE NOTATIONS CHKD
BY
DATE

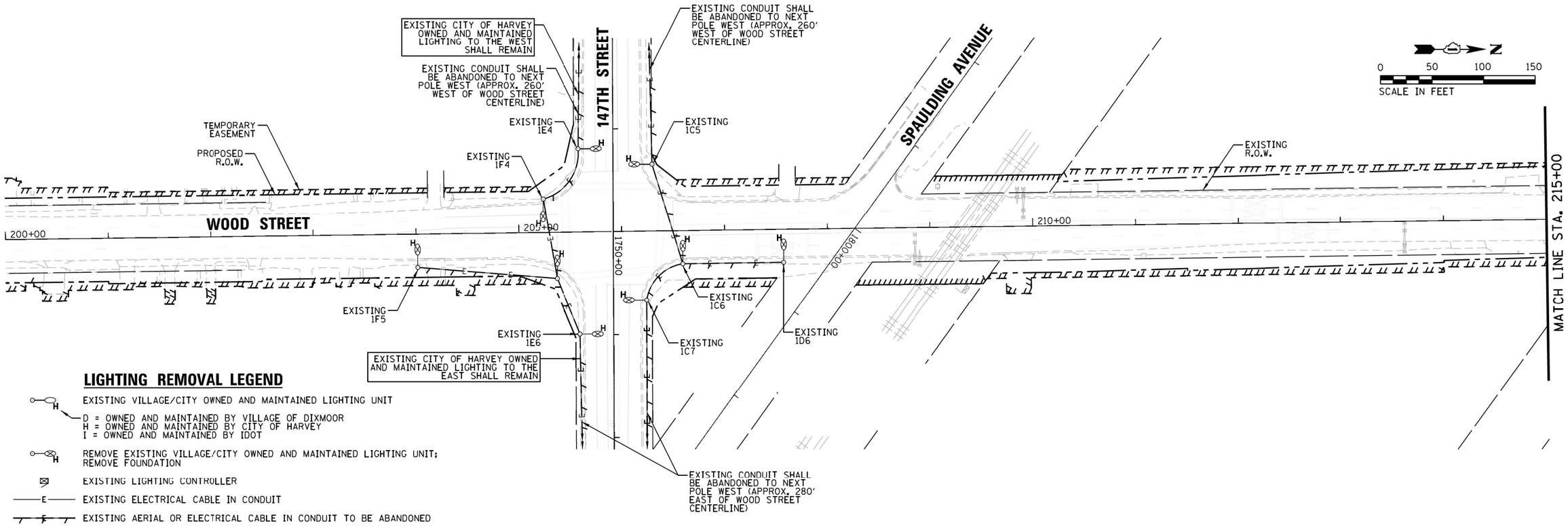
FILE NAME =	USER NAME = rjezierny	DESIGNED AJD	REVISED -
N:\IDOT\150353\Mech\Advance_Contract\ACAD\LGT-01_NOT-01.dgn		DRAWN DRK/KB/RJJ	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED AJD	REVISED -
	PLOT DATE = 10/13/2021	DATE 10/13/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING GENERAL NOTES AND BILL OF MATERIALS
WOOD STREET RECONSTRUCTION PROJECT
DIXMOOR AND HARVEY, ILLINOIS

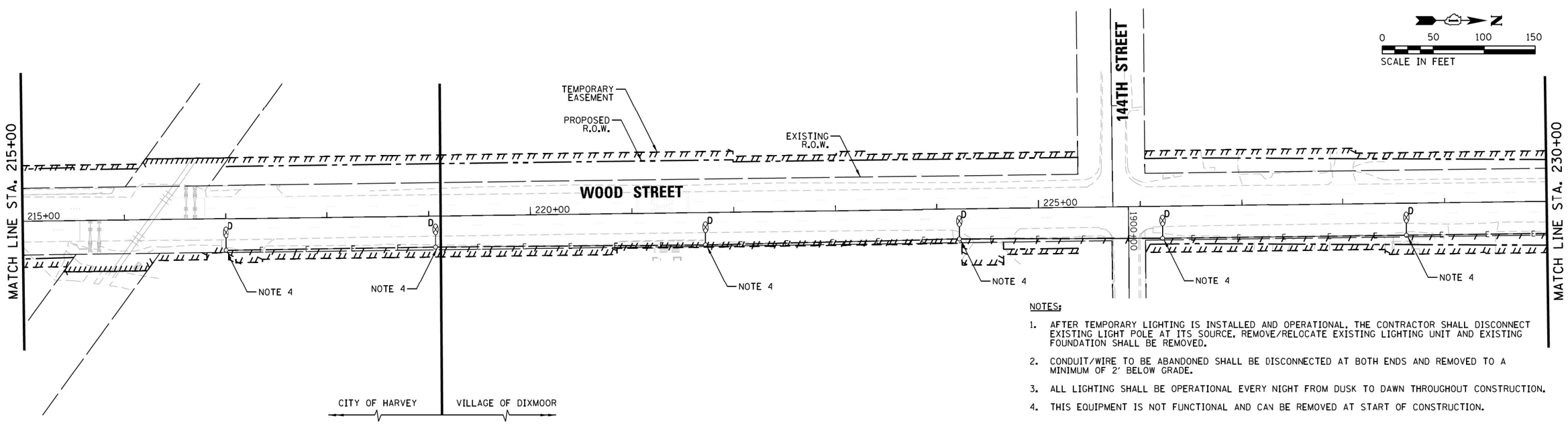
SCALE: N.T.S. | SHEET $sht OF $TOT SHEETS | STA.- | TO STA.-

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	$TOT	$sht
		CONTRACT NO. 60Y72		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LIGHTING REMOVAL LEGEND

- EXISTING VILLAGE/CITY OWNED AND MAINTAINED LIGHTING UNIT
  - D = OWNED AND MAINTAINED BY VILLAGE OF DIXMOOR
  - H = OWNED AND MAINTAINED BY CITY OF HARVEY
  - I = OWNED AND MAINTAINED BY IDOT
- REMOVE EXISTING VILLAGE/CITY OWNED AND MAINTAINED LIGHTING UNIT; REMOVE FOUNDATION
- EXISTING LIGHTING CONTROLLER
- EXISTING ELECTRICAL CABLE IN CONDUIT
- EXISTING AERIAL OR ELECTRICAL CABLE IN CONDUIT TO BE ABANDONED



NOTES:

1. AFTER TEMPORARY LIGHTING IS INSTALLED AND OPERATIONAL, THE CONTRACTOR SHALL DISCONNECT EXISTING LIGHT POLE AT ITS SOURCE, REMOVE/RELOCATE EXISTING LIGHTING UNIT AND EXISTING FOUNDATION SHALL BE REMOVED.
2. CONDUIT/WIRE TO BE ABANDONED SHALL BE DISCONNECTED AT BOTH ENDS AND REMOVED TO A MINIMUM OF 2' BELOW GRADE.
3. ALL LIGHTING SHALL BE OPERATIONAL EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
4. THIS EQUIPMENT IS NOT FUNCTIONAL AND CAN BE REMOVED AT START OF CONSTRUCTION.

CHRISTOPHER B. BURKE ENGINEERING LTD.
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(847) 823-0500

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PROFILE: NOTE BOOK NO. ___ SURVEYED ___ PLOTTED ___ GRADES CHECKED ___ B.M. NOTED ___ STRUCTURE NOTATNS CHKD ___ BY ___ DATE ___

FILE NAME = N:\IDOT\150353\Mech\Advance_Contract\AC_LGT-02_REM-01.dgn	USER NAME = rjezierny	DESIGNED AJD	REVISED -
		DRAWN DRK/KB/RJJ	REVISED -
	PLOT SCALE = 100'	CHECKED AJD	REVISED -
	PLOT DATE = 10/13/2021	DATE 10/13/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY LIGHTING REMOVAL PLAN (1 OF 3)
WOOD STREET RECONSTRUCTION PROJECT
DIXMOOR AND HARVEY, ILLINOIS

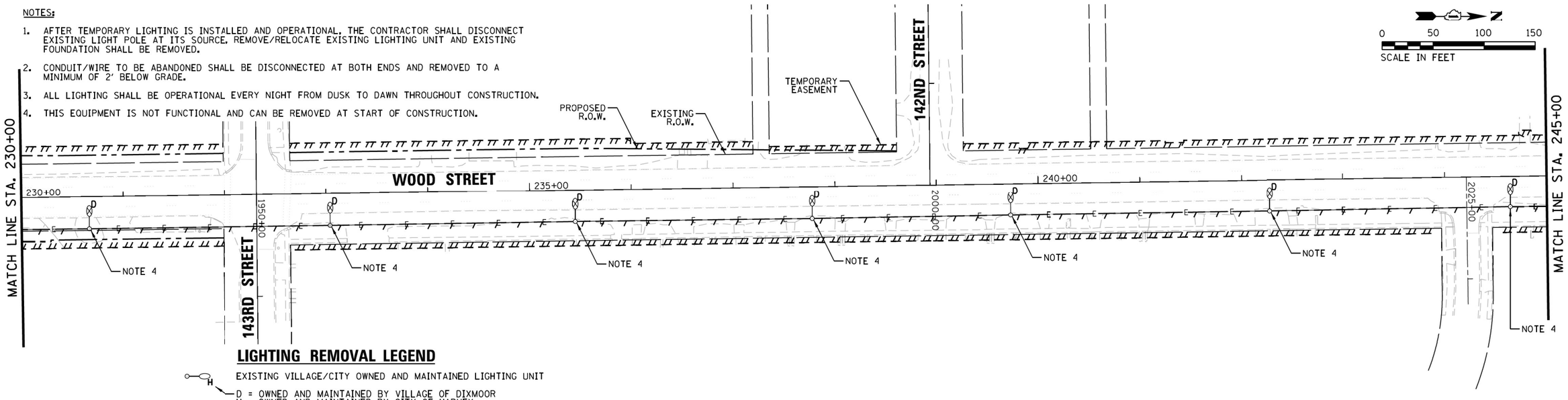
SCALE: 1"=100' | SHEET OF SHEETS | STA. 200+00 TO STA. 230+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	338
		CONTRACT NO. 60Y72		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

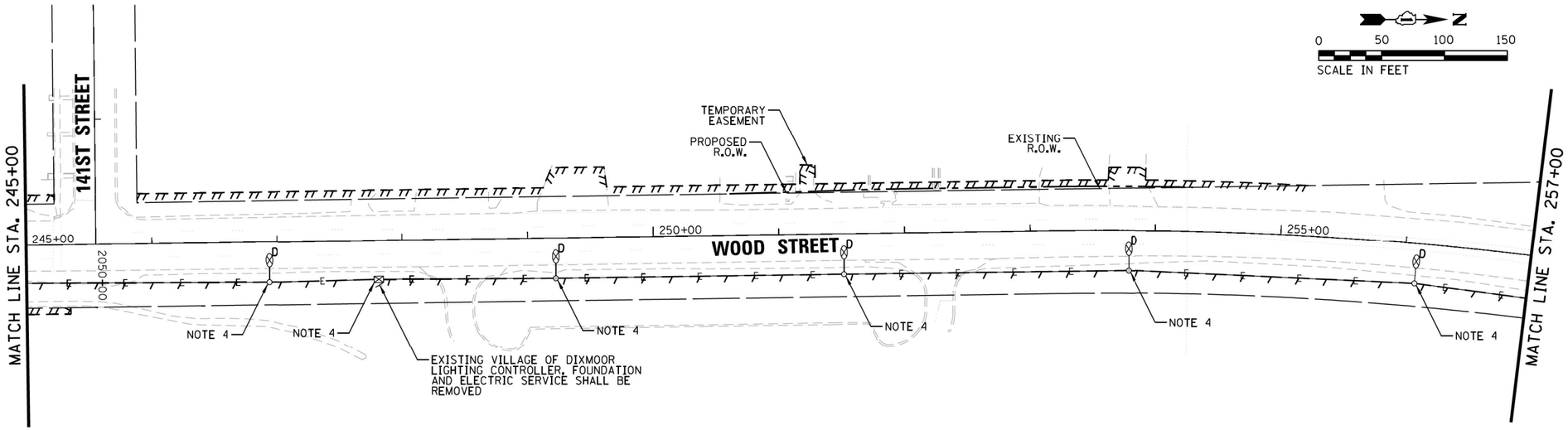
NOTES:

1. AFTER TEMPORARY LIGHTING IS INSTALLED AND OPERATIONAL, THE CONTRACTOR SHALL DISCONNECT EXISTING LIGHT POLE AT ITS SOURCE. REMOVE/RELOCATE EXISTING LIGHTING UNIT AND EXISTING FOUNDATION SHALL BE REMOVED.
2. CONDUIT/WIRE TO BE ABANDONED SHALL BE DISCONNECTED AT BOTH ENDS AND REMOVED TO A MINIMUM OF 2' BELOW GRADE.
3. ALL LIGHTING SHALL BE OPERATIONAL EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
4. THIS EQUIPMENT IS NOT FUNCTIONAL AND CAN BE REMOVED AT START OF CONSTRUCTION.



LIGHTING REMOVAL LEGEND

- EXISTING VILLAGE/CITY OWNED AND MAINTAINED LIGHTING UNIT
  - D = OWNED AND MAINTAINED BY VILLAGE OF DIXMOOR
  - H = OWNED AND MAINTAINED BY CITY OF HARVEY
  - I = OWNED AND MAINTAINED BY IDOT
- REMOVE EXISTING VILLAGE/CITY OWNED AND MAINTAINED LIGHTING UNIT; REMOVE FOUNDATION
- EXISTING LIGHTING CONTROLLER
- E — EXISTING ELECTRICAL CABLE IN CONDUIT
- F — F — EXISTING AERIAL OR ELECTRICAL CABLE IN CONDUIT TO BE ABANDONED



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PLAN / PROFILE — SURVEYED — DRAWN — CHECKED — QUANTITIES CHECKED — ALIGNMENT CHECKED — RT. OF WAY CHECKED — CADD FILE NAME — STRUCTURE NO(S)/MT'KS CHK'D — NOTE BOOK — NO. — BY — DATE

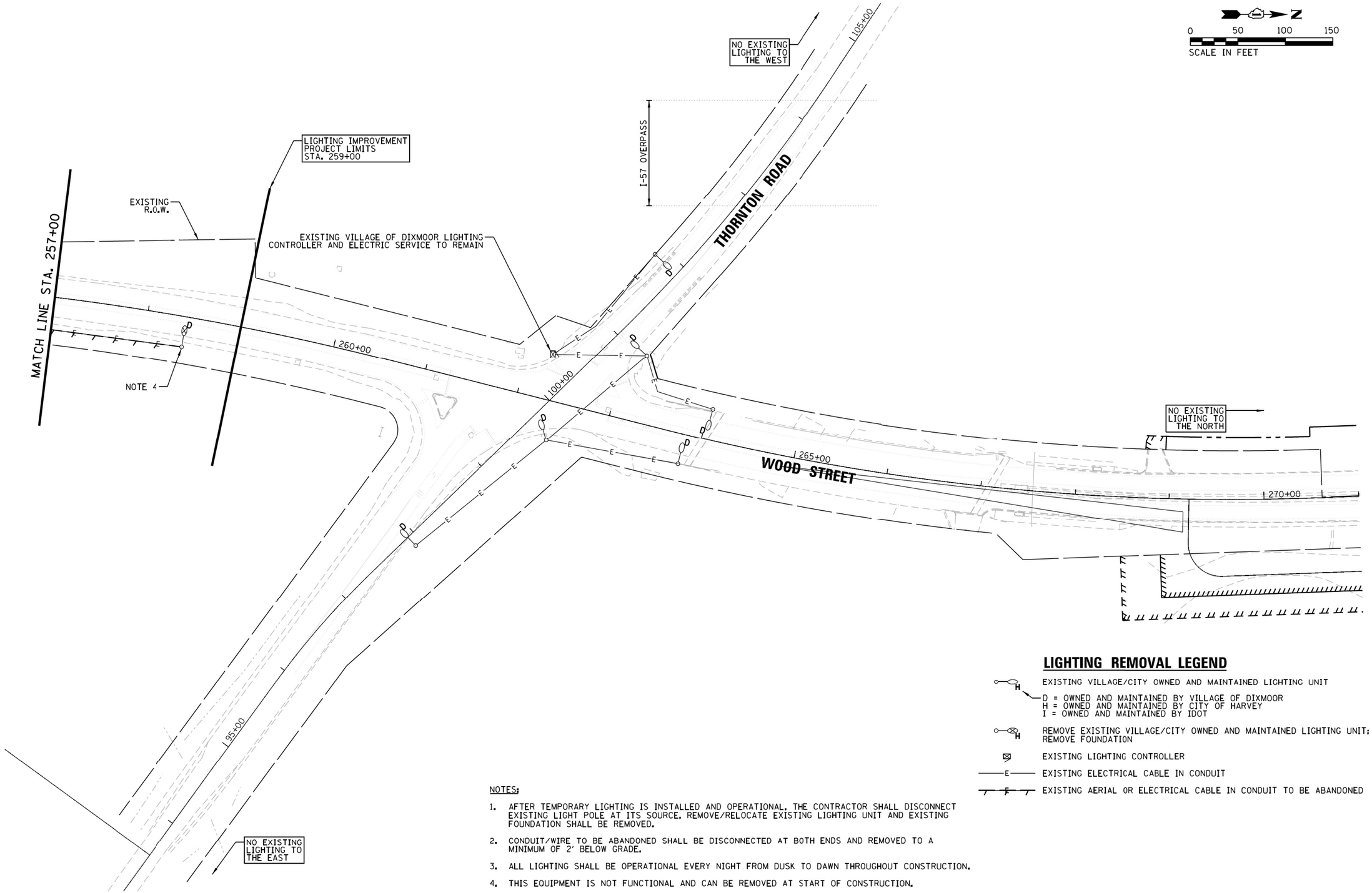
FILE NAME = N:\IDOT\150353\Mech\Advance_Contract\ACLGT-03_REM-02.dgn	USER NAME = rjezierny	DESIGNED AJD	REVISED -
		DRAWN DRK/KB/RJJ	REVISED -
	PLOT SCALE = 100'	CHECKED AJD	REVISED -
	PLOT DATE = 10/13/2021	DATE 10/13/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY LIGHTING REMOVAL PLAN (2 OF 3)
WOOD STREET RECONSTRUCTION PROJECT
DIXMOOR AND HARVEY, ILLINOIS

SCALE: 1"=100' | SHEET OF SHEETS | STA. 230+00 TO STA. 257+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	339
		CONTRACT NO. 60Y72		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LIGHTING REMOVAL LEGEND

- EXISTING VILLAGE/CITY OWNED AND MAINTAINED LIGHTING UNIT
  - D = OWNED AND MAINTAINED BY VILLAGE OF DIXMOOR
  - H = OWNED AND MAINTAINED BY CITY OF HARVEY
  - I = OWNED AND MAINTAINED BY IDOT
- REMOVE EXISTING VILLAGE/CITY OWNED AND MAINTAINED LIGHTING UNIT; REMOVE FOUNDATION
- EXISTING LIGHTING CONTROLLER
- EXISTING ELECTRICAL CABLE IN CONDUIT
- EXISTING AERIAL OR ELECTRICAL CABLE IN CONDUIT TO BE ABANDONED

NOTES:

1. AFTER TEMPORARY LIGHTING IS INSTALLED AND OPERATIONAL, THE CONTRACTOR SHALL DISCONNECT EXISTING LIGHT POLE AT ITS SOURCE, REMOVE/RELOCATE EXISTING LIGHTING UNIT AND EXISTING FOUNDATION SHALL BE REMOVED.
2. CONDUIT/WIRE TO BE ABANDONED SHALL BE DISCONNECTED AT BOTH ENDS AND REMOVED TO A MINIMUM OF 2' BELOW GRADE.
3. ALL LIGHTING SHALL BE OPERATIONAL EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
4. THIS EQUIPMENT IS NOT FUNCTIONAL AND CAN BE REMOVED AT START OF CONSTRUCTION.

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PROFILE: NOTE BOOK NO. ___ | SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTAT'NS CH'KD | BY | DATE

FILE NAME = N:\IDOT\150353\Mech\Advance_Contract\AC_LGT-04_REM-03.dgn	USER NAME = rjezierny	DESIGNED AJD	REVISED -
		DRAWN DRK/KB/RJJ	REVISED -
	PLOT SCALE = 100'	CHECKED AJD	REVISED -
	PLOT DATE = 10/13/2021	DATE 10/13/2021	REVISED -

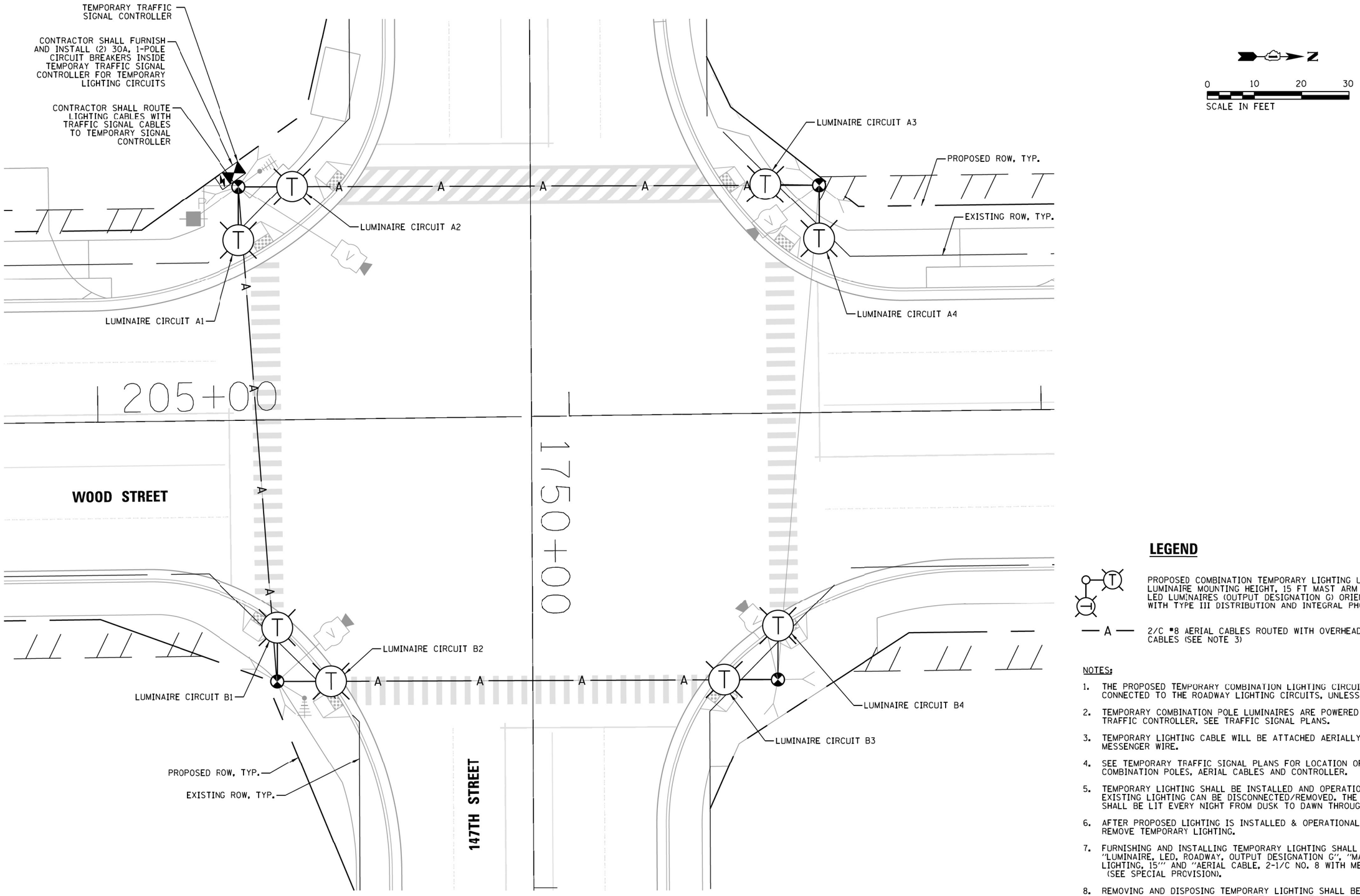
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY LIGHTING REMOVAL PLAN (3 OF 3)
WOOD STREET RECONSTRUCTION PROJECT
DIXMOOR AND HARVEY, ILLINOIS

SCALE: 1"=100' | SHEET OF SHEETS | STA. 257+00 TO STA. 264+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	340
		CONTRACT NO. 60Y72		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



LEGEND

PROPOSED COMBINATION TEMPORARY LIGHTING UNIT, 45 FT LUMINAIRE MOUNTING HEIGHT, 15 FT MAST ARM AND TWO 120V LED LUMINAIRES (OUTPUT DESIGNATION G) ORIENTATED AT 90° WITH TYPE III DISTRIBUTION AND INTEGRAL PHOTOCELL

— A — 2/C #8 AERIAL CABLES ROUTED WITH OVERHEAD SIGNAL CABLES (SEE NOTE 3)

NOTES:

1. THE PROPOSED TEMPORARY COMBINATION LIGHTING CIRCUITS SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS, UNLESS OTHERWISE SHOWN.
2. TEMPORARY COMBINATION POLE LUMINAIRES ARE POWERED FROM TEMPORARY TRAFFIC CONTROLLER. SEE TRAFFIC SIGNAL PLANS.
3. TEMPORARY LIGHTING CABLE WILL BE ATTACHED AERIALLY TO TRAFFIC SIGNAL MESSENGER WIRE.
4. SEE TEMPORARY TRAFFIC SIGNAL PLANS FOR LOCATION OF TEMPORARY COMBINATION POLES, AERIAL CABLES AND CONTROLLER.
5. TEMPORARY LIGHTING SHALL BE INSTALLED AND OPERATIONAL BEFORE ANY EXISTING LIGHTING CAN BE DISCONNECTED/REMOVED. THE TEMPORARY LIGHTING SHALL BE LIT EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
6. AFTER PROPOSED LIGHTING IS INSTALLED & OPERATIONAL, CONTRACTOR SHALL REMOVE TEMPORARY LIGHTING.
7. FURNISHING AND INSTALLING TEMPORARY LIGHTING SHALL BE PAID FOR UNDER "LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G", "MAST ARM, STREET LIGHTING, 15'" AND "AERIAL CABLE, 2-1/C NO. 8 WITH MESSENGER" (SEE SPECIAL PROVISION).
8. REMOVING AND DISPOSING TEMPORARY LIGHTING SHALL BE PAID FOR UNDER "REMOVAL OF TEMPORARY LUMINAIRE" (SEE SPECIAL PROVISION).

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PROFILE — NOTE BOOK NO. — SURVEYED — PLOTTED — GRADES CHECKED — B.M. NOTED — STRUCTURE NOTAT'NS CH'KD — BY — DATE

FILE NAME = N:\IDOT\150353\Mech\Advance_Contract\AC_LGT-05_INTTEMP_147.dgn	USER NAME = rjezierny	DESIGNED AJD	REVISED -
		DRAWN DRK/KB/RJJ	REVISED -
	PLOT SCALE = 20'	CHECKED AJD	REVISED -
	PLOT DATE = 10/13/2021	DATE 10/13/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION TEMPORARY LIGHTING PLAN (1 OF 1)
WOOD STREET RECONSTRUCTION PROJECT
DIXMOOR AND HARVEY, ILLINOIS

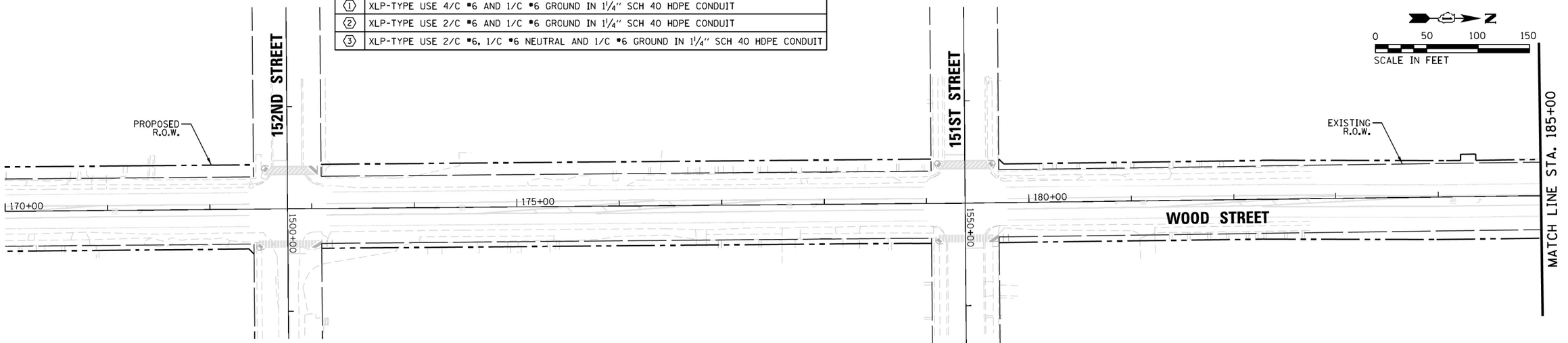
SCALE: 1"=20' | SHEET OF SHEETS | STA. - TO STA. -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	341
		CONTRACT NO. 60Y72		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

CABLE AND CONDUIT SCHEDULE

ID	DESCRIPTION
1	XLP-TYPE USE 4/C #6 AND 1/C #6 GROUND IN 1¼" SCH 40 HDPE CONDUIT
2	XLP-TYPE USE 2/C #6 AND 1/C #6 GROUND IN 1¼" SCH 40 HDPE CONDUIT
3	XLP-TYPE USE 2/C #6, 1/C #6 NEUTRAL AND 1/C #6 GROUND IN 1¼" SCH 40 HDPE CONDUIT

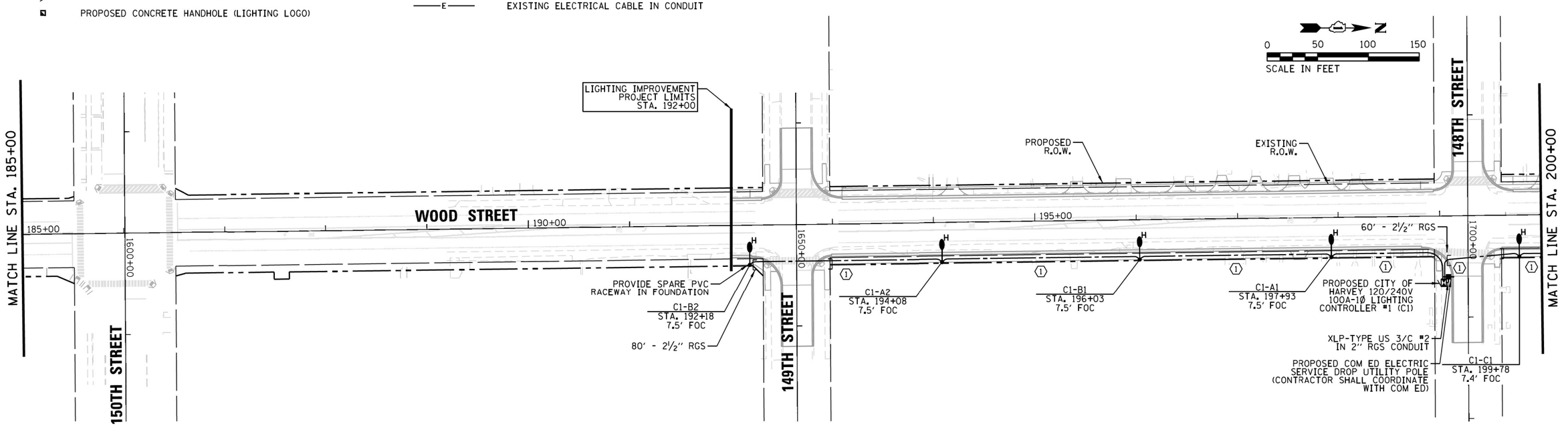


PROPOSED LIGHTING LEGEND

- PROPOSED COMBINATION LIGHTING UNIT, 45 FT LUMINAIRE MH, 15 FT MAST ARM AND LED COMBINATION LUMINAIRE (SEE PROPOSED INTERSECTION LIGHTING PLANS)
  H = OWNED AND MAINTAINED BY CITY OF HARVEY
  I = OWNED AND MAINTAINTED BY IDOT
- PROPOSED CITY OWNED AND MAINTAINED LIGHTING UNIT, 47.5 FT LUMINAIRE MH, 12 FT MAST ARM AND LED LUMINAIRE (OUTPUT DESIGNATION I) WITH TYPE II DISTRIBUTION MOUNTED ON 9" ALUMINUM TRANSFORMER BASE (LUMINAIRE VOLTAGE 240V LINE TO LINE)
- EXISTING CITY OWNED AND MAINTAINED LIGHTING UNIT
- PROPOSED LIGHTING CONTROLLER
- PROPOSED CONCRETE HANDHOLE (LIGHTING LOGO)
- PROPOSED COM ED ELECTRIC SERVICE DROP UTILITY POLE
- PROPOSED ELECTRICAL CABLE IN CONDUIT (SEE CABLE AND CONDUIT SCHEDULE)
- PROPOSED RGS CONDUIT SLEEVE (SIZE AS INDICATED ON PLANS)
- LIGHTING CONTROLLER IDENTIFIER
- C1-A1 — LIGHT POLE/CIRCUIT IDENTIFIER
- STA. 231+40.0 — STATION
- 3.0' FOC — SETBACK FROM FACE OF CURB (FOC) TO CENTER OF POLE
- E — EXISTING ELECTRICAL CABLE IN CONDUIT

NOTES:

1. PROPOSED LIGHTING SHALL BE INSTALLED AND OPERATIONAL BEFORE TEMPORARY LIGHTING IS DISCONNECTED/REMOVED. THE ROADWAY SHALL BE LIT EVERY NIGHT FROM DUSK TO DAWN.
2. FURNISH AND INSTALL A LUMINAIRE SAFETY CABLE FOR EACH PROPOSED LUMINAIRE.



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		DRAWN DRK/KB/RJJ	REVISED -
	PLOT SCALE = 100'	CHECKED AJD	REVISED -
	PLOT DATE = 10/13/2021	DATE 10/13/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED ROADWAY LIGHTING PLAN (1 OF 2)
WOOD STREET RECONSTRUCTION PROJECT
DIXMOOR AND HARVEY, ILLINOIS

SCALE: 1"=100' | SHEET OF SHEETS | STA. 170+00 TO STA. 200+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	342
		CONTRACT NO. 60Y72		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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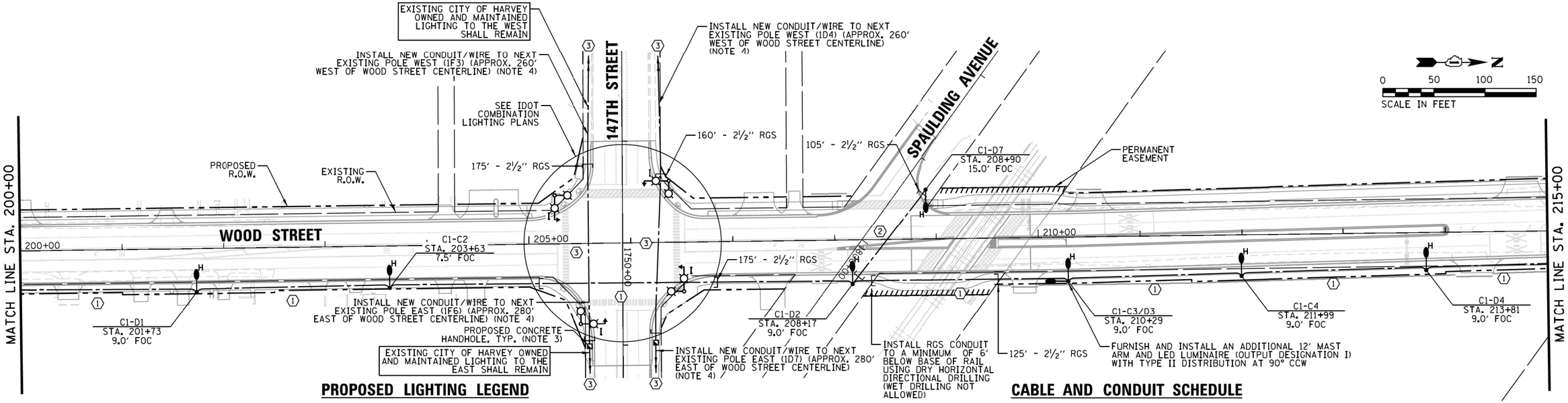
PLAN: SURVEYED, PLOTTED, CHECKED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO.
PROFILE: SURVEYED, PLOTTED, CHECKED, DRAWN, B.M. NOTED, STRUCTURE NOTATNS CHKED, NOTE BOOK, NO.
DATE / BY

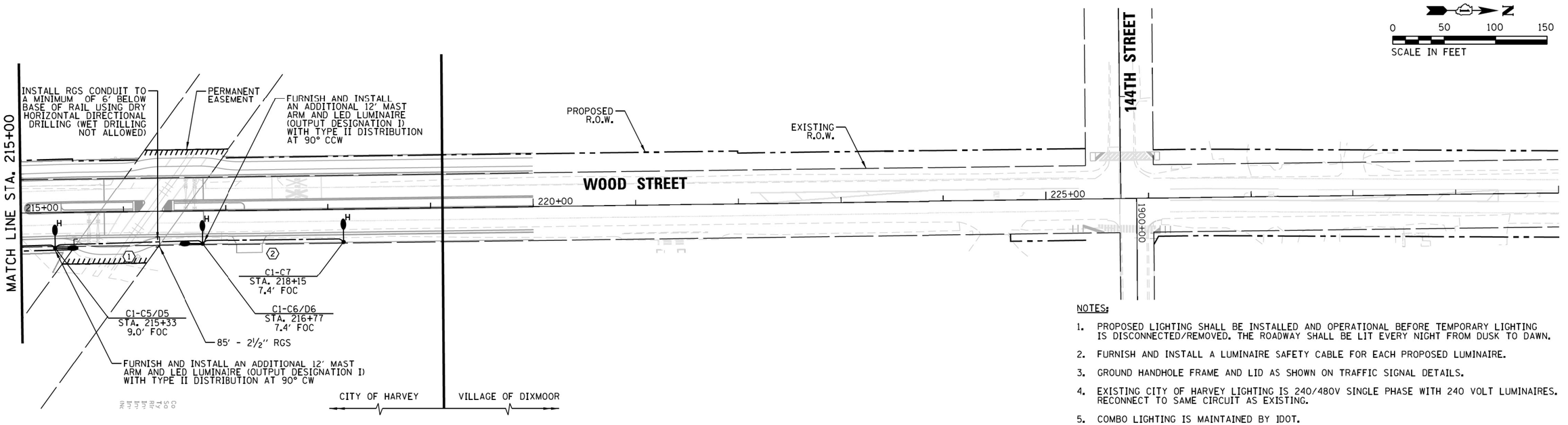


PROPOSED LIGHTING LEGEND

- PROPOSED COMBINATION LIGHTING UNIT, 45 FT LUMINAIRE MH, 15 FT MAST ARM AND LED COMBINATION LUMINAIRE (SEE PROPOSED INTERSECTION LIGHTING PLANS)
  H = OWNED AND MAINTAINED BY CITY OF HARVEY
  I = OWNED AND MAINTAINTED BY IDOT
- PROPOSED CITY OWNED AND MAINTAINED LIGHTING UNIT, 47.5 FT LUMINAIRE MH, 12 FT MAST ARM AND LED LUMINAIRE (OUTPUT DESIGNATION I) WITH TYPE II DISTRIBUTION MOUNTED ON 9" ALUMINUM TRANSFORMER BASE (LUMINAIRE VOLTAGE 240V LINE TO LINE)
- EXISTING CITY OWNED AND MAINTAINED LIGHTING UNIT
- PROPOSED LIGHTING CONTROLLER
- PROPOSED CONCRETE HANDHOLE (LIGHTING LOGO)
- PROPOSED COM ED ELECTRIC SERVICE DROP UTILITY POLE
- PROPOSED ELECTRICAL CABLE IN CONDUIT (SEE CABLE AND CONDUIT SCHEDULE)
- PROPOSED RGS CONDUIT SLEEVE (SIZE AS INDICATED ON PLANS)
- LIGHTING CONTROLLER IDENTIFIER
- C1-A1 — LIGHT POLE/CIRCUIT IDENTIFIER
- STA. 231+40.0 — STATION
- 3.0' FOC — SETBACK FROM FACE OF CURB (FOC) TO CENTER OF POLE
- E — EXISTING ELECTRICAL CABLE IN CONDUIT

CABLE AND CONDUIT SCHEDULE

ID	DESCRIPTION
①	XLP-TYPE USE 4/C #6 AND 1/C #6 GROUND IN 1¼" SCH 40 HDPE CONDUIT
②	XLP-TYPE USE 2/C #6 AND 1/C #6 GROUND IN 1¼" SCH 40 HDPE CONDUIT
③	XLP-TYPE USE 2/C #6, 1/C #6 NEUTRAL AND 1/C #6 GROUND IN 1¼" SCH 40 HDPE CONDUIT



NOTES:

1. PROPOSED LIGHTING SHALL BE INSTALLED AND OPERATIONAL BEFORE TEMPORARY LIGHTING IS DISCONNECTED/REMOVED. THE ROADWAY SHALL BE LIT EVERY NIGHT FROM DUSK TO DAWN.
2. FURNISH AND INSTALL A LUMINAIRE SAFETY CABLE FOR EACH PROPOSED LUMINAIRE.
3. GROUND HANDHOLE FRAME AND LID AS SHOWN ON TRAFFIC SIGNAL DETAILS.
4. EXISTING CITY OF HARVEY LIGHTING IS 240/480V SINGLE PHASE WITH 240 VOLT LUMINAIRES. RECONNECT TO SAME CIRCUIT AS EXISTING.
5. COMBO LIGHTING IS MAINTAINED BY IDOT.
6. ROADWAY LIGHT POLES SHALL NOT BE CONNECTED TO THE IDOT COMBO POLES.

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(847) 823-0500

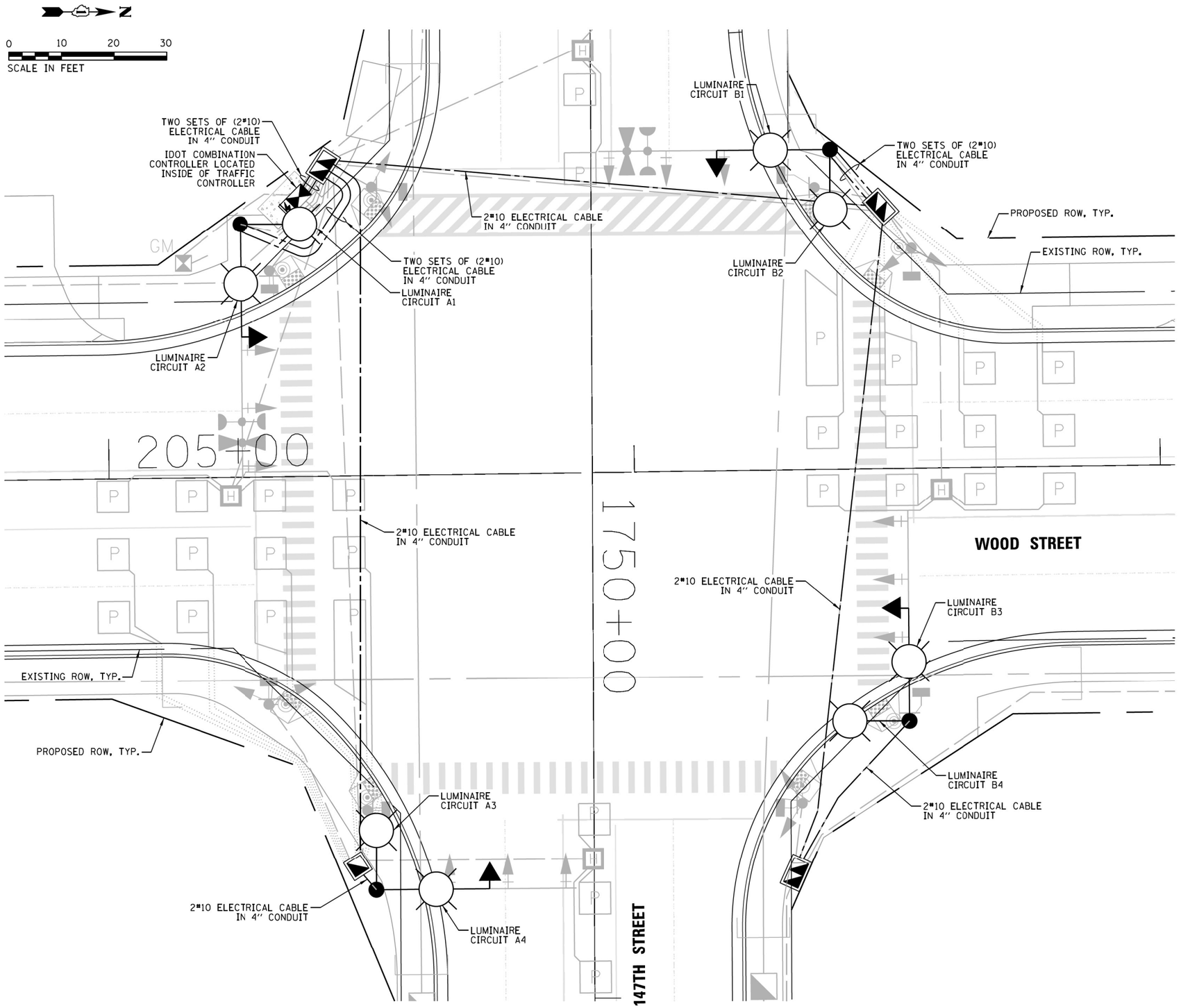
PLAN — SURVEYED — PLOTTED — CHECKED — R.P. OF W.A.' CHECKED — NOTE BOOK — NO. — DATE — BY
PROFILE — SURVEYED — PLOTTED — CHECKED — R.P. OF W.A.' CHECKED — NOTE BOOK — NO. — DATE — BY — STRUCTURE NO(S).(ATHS) CHKD

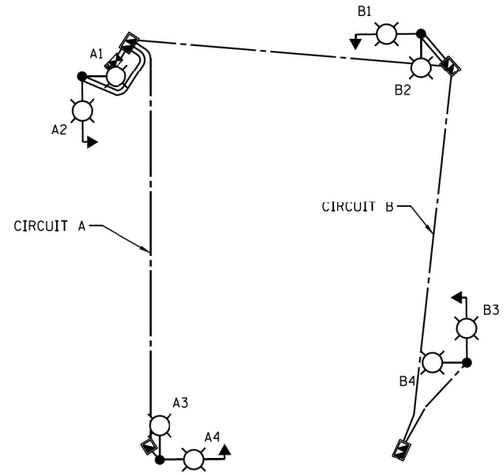
FILE NAME = N:\IDOT\150353\Mech\Advance_Contract\AC-LGT-07-PLN-02.dgn	USER NAME = rjezierny	DESIGNED AJD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	PLOT SCALE = 100'	DRAWN DRK/KB/RJJ	REVISED -	
	PLOT DATE = 10/13/2021	CHECKED AJD	REVISED -	
		DATE 10/13/2021	REVISED -	

PROPOSED ROADWAY LIGHTING PLAN (2 OF 2)
WOOD STREET RECONSTRUCTION PROJECT
DIXMOOR AND HARVEY, ILLINOIS

SCALE: 1"=100' | SHEET OF SHEETS | STA. 200+00 TO STA. 230+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	343
		CONTRACT NO. 60Y72		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





ONE LINE DIAGRAM

LEGEND

IDOT COMBINATION LIGHT POLE 45 FT LUMINAIRE MOUNTING HEIGHT 2-15 FT LUMINAIRE ARMS AT 90 DEGREES APART TWO LUMINAIRES, LED, OUTPUT G, 120V, WITH TWO 6 AMP FUSES & NEUTRAL SLUGS

PROPOSED COMBO LIGHTING ELECTRICAL CABLE IN CONDUIT. 2#10 ROUTED THROUGH TRAFFIC 4" CONDUIT (SEE TRAFFIC PLANS FOR CONDUIT SIZE AND CONDUIT ROUTE AND NOTE 8 THIS SHEET)

IDOT COMBO LIGHTING SCHEDULE OF QUANTITIES		
DESCRIPTION	UNIT	QUANTITY
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	8
LUMINAIRE, LED, ROADWAY (OUTPUT DESIGNATION G)	EACH	8
ELECTRIC CABLE IN CONDUIT, 600V (XLP TYPE-USE) 1/C NO. 10	FOOT	1300

NOTES:

1. THE PROPOSED COMBINATION LIGHTING CIRCUITS SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. COMBINATION POLE LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER. SEE DETAIL BE-240.
3. THE COMBINATION LIGHTING CABLE AND TRAFFIC SIGNAL CABLES WILL BE IN A SHARED CONDUIT.
4. SEE TRAFFIC SIGNAL PLANS FOR LOCATION OF COMBINATION POLES, HANDHOLES AND CONDUIT.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBINATION POLES. CIRCUITING DECALS SHOWN IS FOR GUIDANCE ONLY.
6. COMBINATION POLE LUMINAIRES SHALL HAVE LUMINAIRE SAFETY CABLE.

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PROFILE — NOTE BOOK NO. — SURVEYED — PLOTTED — GRADES CHECKED — B.M. NOTED — STRUCTURE NOTAT'NS CH'KD — BY — DATE

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		DRAWN DRK/KB/RJJ	REVISED -
	PLOT SCALE = 20'	CHECKED AJD	REVISED -
	PLOT DATE = 10/13/2021	DATE 10/13/2021	REVISED -

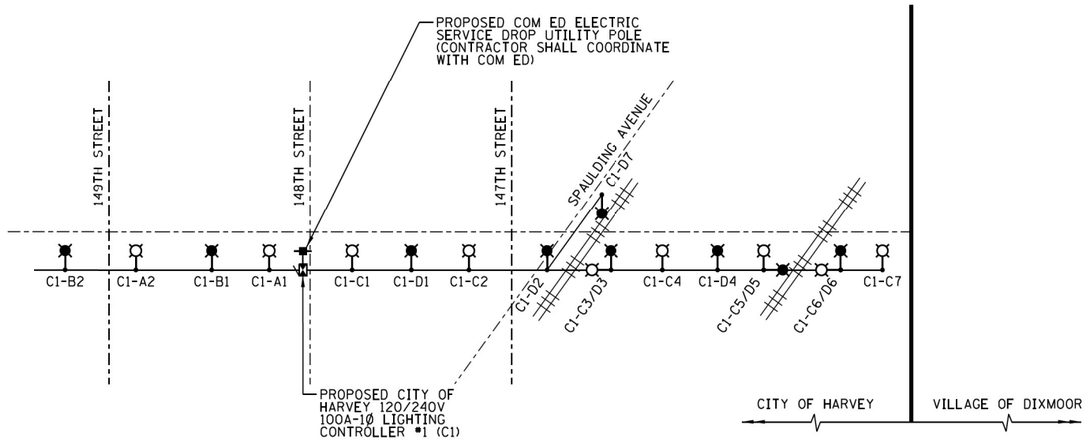
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERSECTION LIGHTING PLAN (1 OF 1)
WOOD STREET RECONSTRUCTION PROJECT
DIXMOOR AND HARVEY, ILLINOIS

SCALE: 1"=20' | SHEET OF SHEETS | STA. - TO STA. -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	344
		CONTRACT NO. 60Y72		

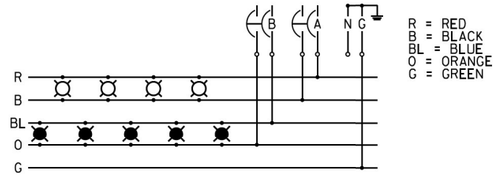
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



LEGEND

- PROPOSED CITY OWNED AND MAINTAINED LIGHTING UNIT, 47.5 FT LUMINAIRE MH, 12 FT MAST ARM AND LED LUMINAIRE (OUTPUT DESIGNATION I) WITH TYPE III DISTRIBUTION MOUNTED ON 9" ALUMINUM TRANSFORMER BASE ON A OR C CIRCUIT (240V)
- PROPOSED CITY OWNED AND MAINTAINED LIGHTING UNIT, 47.5 FT LUMINAIRE MH, 12 FT MAST ARM AND LED LUMINAIRE (OUTPUT DESIGNATION I) WITH TYPE III DISTRIBUTION MOUNTED ON 9" ALUMINUM TRANSFORMER BASE ON B OR D CIRCUIT (240V)
- PROPOSED LIGHTING CONTROLLER
- PROPOSED CONCRETE HANDHOLE
- PROPOSED COM ED ELECTRIC SERVICE DROP UTILITY POLE

LUMINAIRE WIRING DETAIL (TYPICAL)



LOAD TABULATION FOR LIGHTING CONTROLLER C1 (CITY OF HARVEY)

CIRCUIT	LUMINAIRE LOAD	TOTAL LOAD	AMPS
A (240V)	2 @ 278W LED	556 W	2.32
B (240V)	2 @ 278W LED	556 W	2.32
C (240V)	7 @ 278W LED	1,946 W	8.11
D (240V)	7 @ 278W LED	1,946 W	8.11
(240V)	TOTAL LOAD	5,004 W	20.85

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PROFILE — NOTE BOOK NO. ____ — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD — BY — DATE

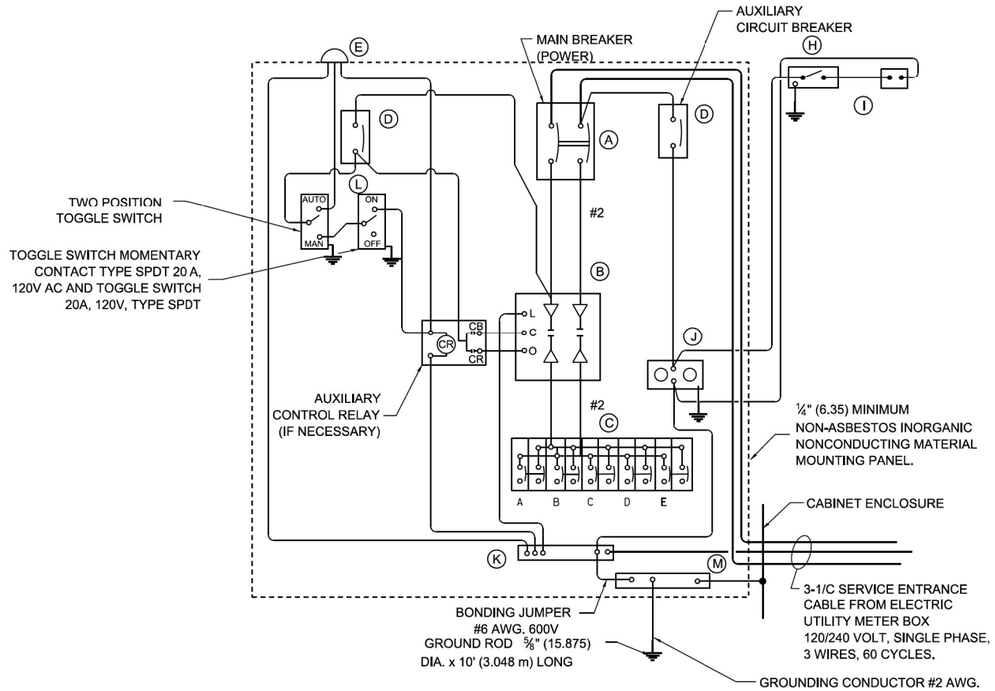
FILE NAME = N:\IDOT\150353\Mech\Advance_Contract\AC_LGT-09_DET-01.dgn	USER NAME = rjezierny	DESIGNED AJD	REVISED -
		DRAWN DRK/KB/RJJ	REVISED -
	PLOT SCALE = 40'	CHECKED AJD	REVISED -
	PLOT DATE = 10/13/2021	DATE 10/13/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS (1 OF 9)
WOOD STREET RECONSTRUCTION PROJECT
DIXMOOR AND HARVEY, ILLINOIS

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

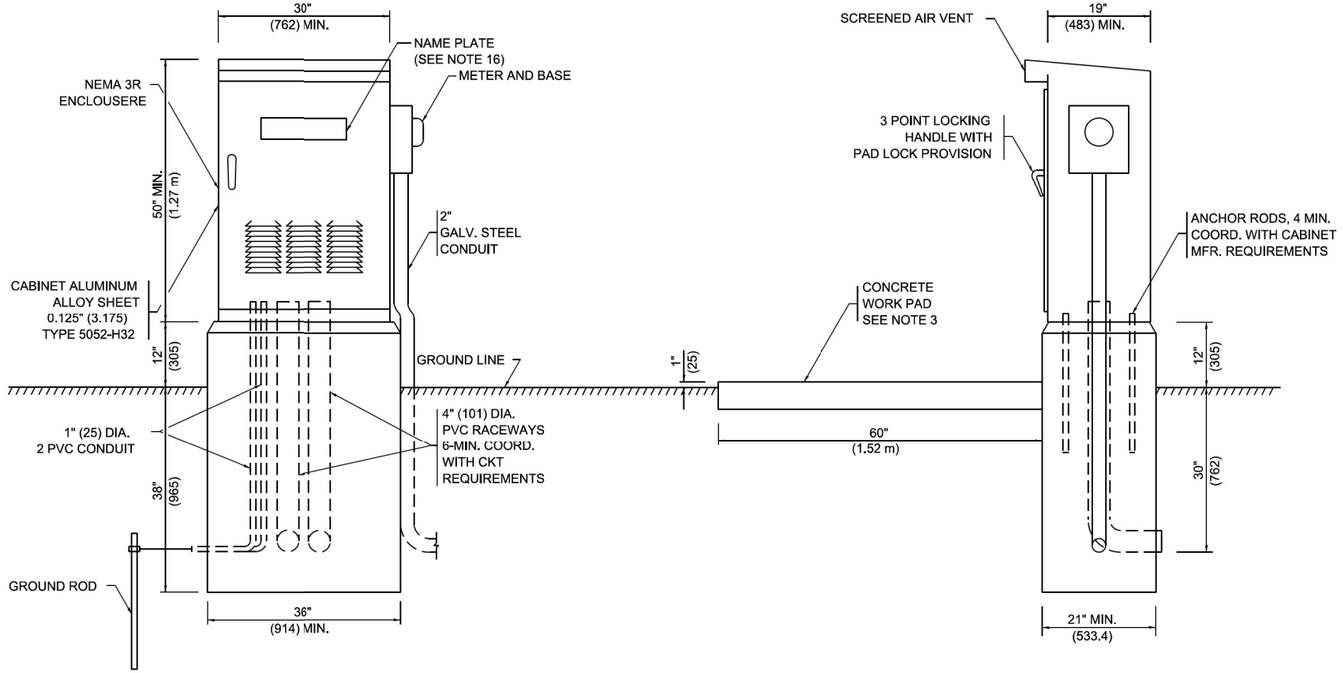
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	345
		CONTRACT NO. 60Y72		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PANEL WIRING DIAGRAM

PANEL EQUIPMENT

BILL OF MATERIAL		
ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22,000 AMP. AT 240 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 120 VOLT.
C	5	CIRCUIT BREAKERS, 2 POLE, 100AMP. FRAME, 30 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22,000 AMP. AT 240V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER. 1 POLE, 120 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 120 V.
E	1	PHOTOCELL
F	-	NOT USED
G	-	NOT USED
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN,
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 AMP, 120 VOLT, DUPLEX RECEPTACLE, GFCI.
K	1	COPPER NEUTRAL BUS ¼" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
L	1	TOGGLE SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX.
M	1	COPPER GROUND BUS 1#4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS.



NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
3. IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (18.288 m) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
4. DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
5. DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
6. DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1#4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
7. ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
8. CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
9. METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
10. CABINETS SHALL BE PRIMED AND PAINTED GREEN.
11. THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
12. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
    R = RED BL = BLUE W = WHITE
    B = BLACK Y = YELLOW G = GREEN
13. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
14. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
15. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
16. 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO READ "CITY OF HARVEY LIGHTING CONTROLLER" FOR CONTROLLER #1 AND #2 AND "VILLAGE OF DIXMOOR LIGHTING CONTROLLER" FOR CONTROLLER #3.

IDOT STANDARD BE-215
MODIFIED FOR THIS PROJECT

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PROFILE PLAN — SURVEYED — DATE — BY — PLOTTED — CHECKED — ALIGNMENT CHECKED — R.O.W. NOTED — STRUCTURE NOTATNS CHKD — NOTE BOOK — NO. — CADD FILE NAME

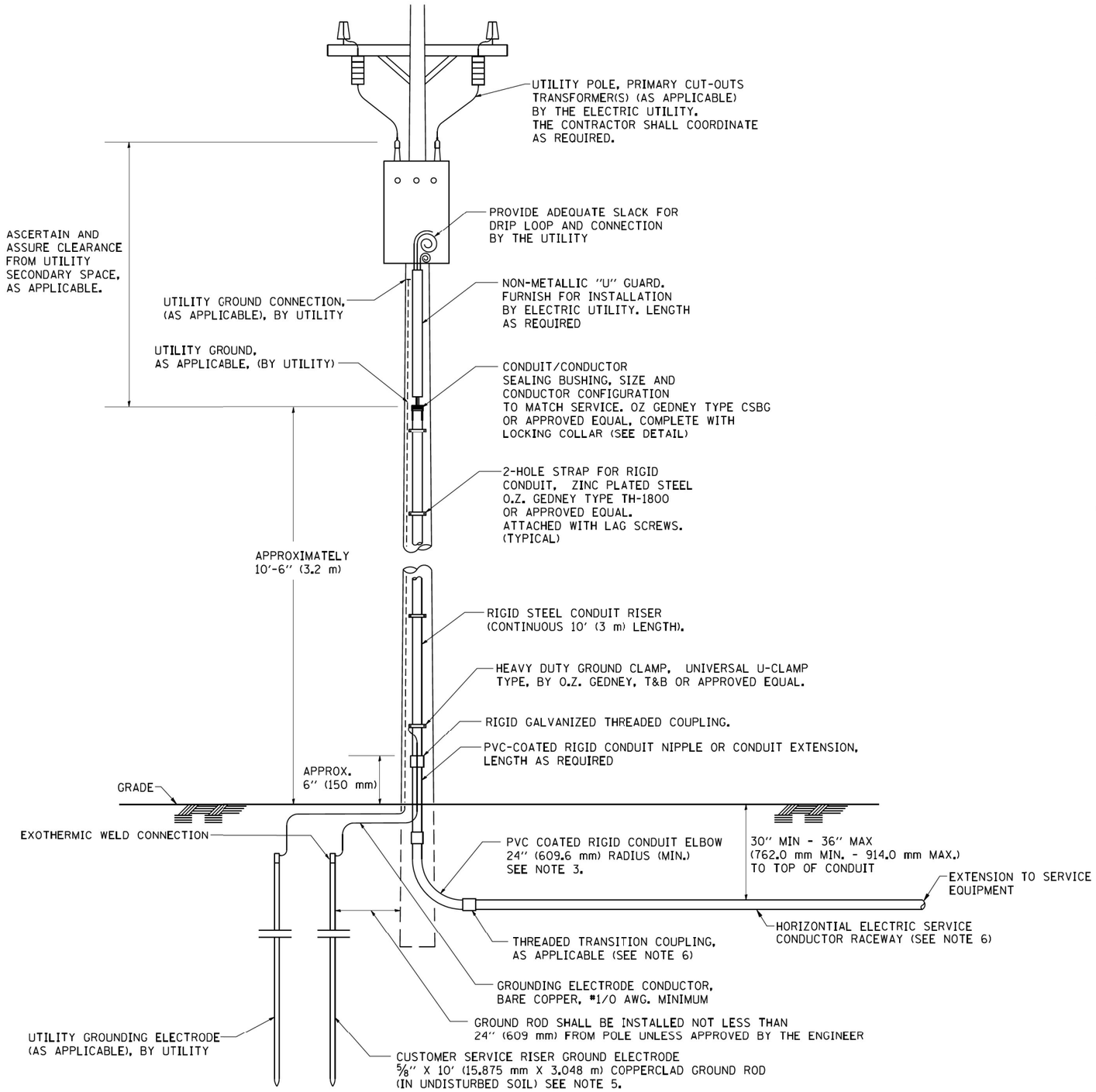
FILE NAME = N:\IDOT\150353\Mech\Advance_Contract\ACAD\LGT-10_DET-02.dgn	USER NAME = rjezierny	DESIGNED AJD	REVISED -
		DRAWN DRK/KB/RJJ	REVISED -
	PLOT SCALE = 40'	CHECKED AJD	REVISED -
	PLOT DATE = 10/13/2021	DATE 10/13/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS (2 OF 9)
WOOD STREET RECONSTRUCTION PROJECT
DIXMOOR AND HARVEY, ILLINOIS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	346
		CONTRACT NO. 60Y72		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

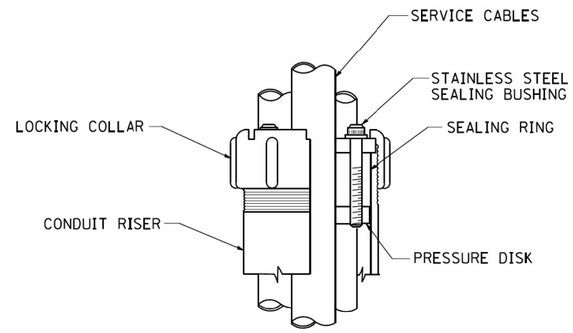


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

1. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
2. UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
3. CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
4. PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
5. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
6. THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
7. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



SEALING BUSHING DETAIL

IDOT STANDARD BE-220

FILE NAME = N:\IDOT\150353\Mech\Advance_Contract\AC_LGT-11_DET-03.dgn	USER NAME = rjezierny	DESIGNED AJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING DETAILS (3 OF 9) WOOD STREET RECONSTRUCTION PROJECT DIXMOOR AND HARVEY, ILLINOIS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40'	DRAWN DRK/KB/RJJ	REVISED -			2857	(145,146&146S-2)WRS&B-1	COOK	557	347
	PLOT DATE = 10/13/2021	CHECKED AJD	REVISED -		SCALE: N.T.S. SHEET OF SHEETS STA. - TO STA. -			CONTRACT NO. 60Y72		
		DATE 10/13/2021	REVISED -			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROFILE — SURVEYED — PLOTTED — CHECKED — DRAWN — CHECKED — R.M. NOTED — STRUCTURE NOTATNS CHKED — NOTE BOOK — NO. ____

PLAN — SURVEYED — PLOTTED — CHECKED — DRAWN — CHECKED — ALIGNMENT CHECKED — RT. OF WAY CHECKED — CADD FILE NAME — NOTE BOOK — NO. ____

BY — DATE

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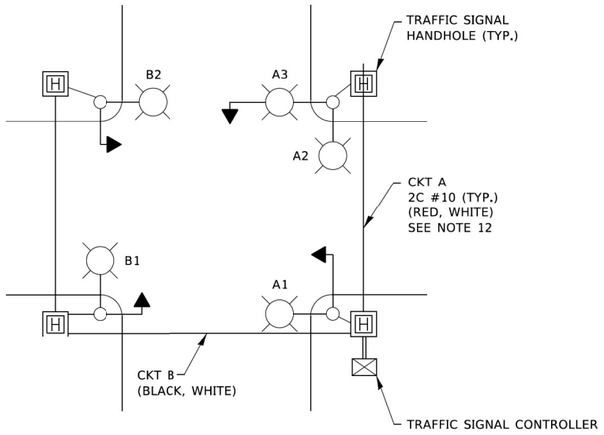
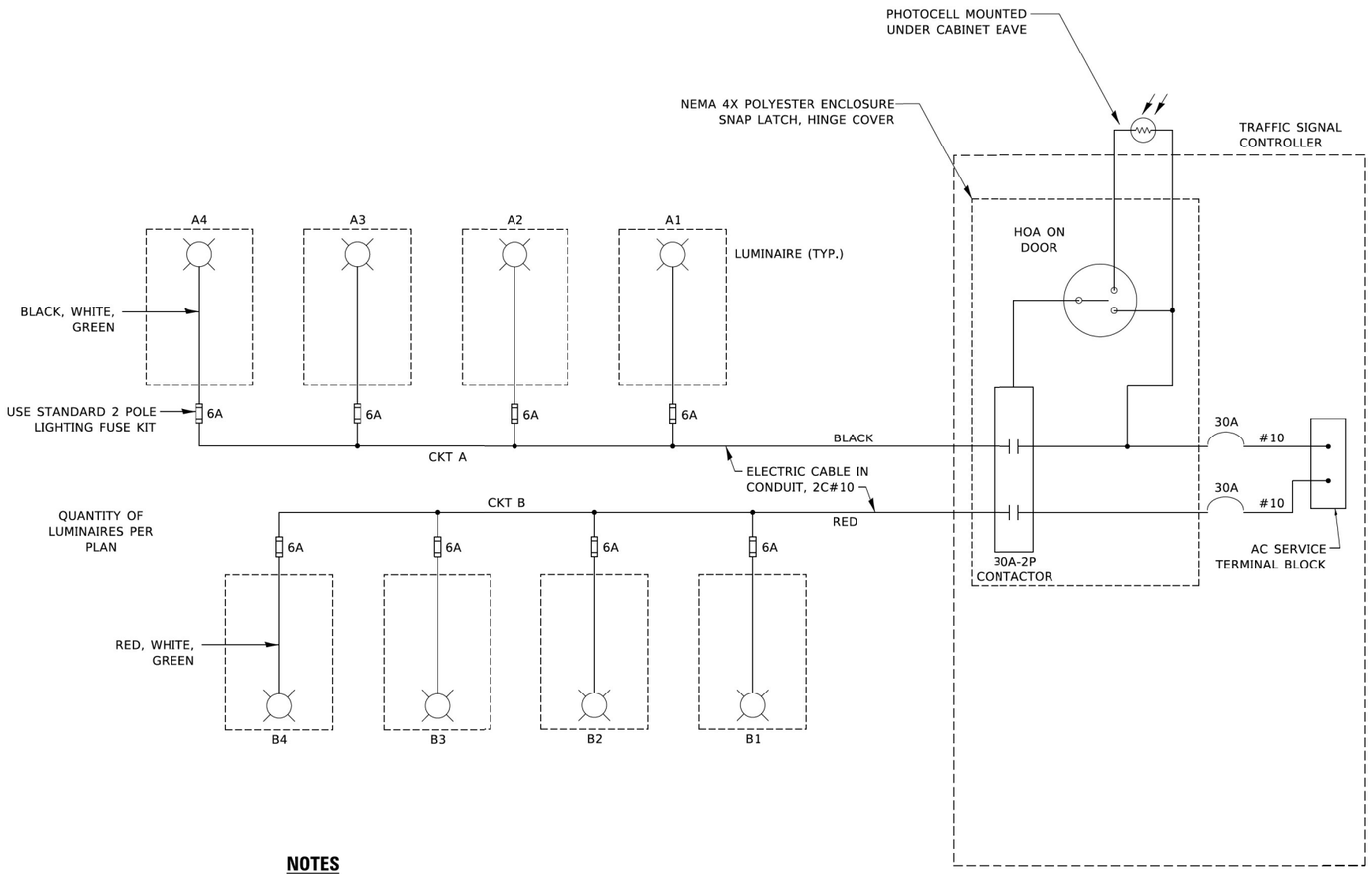
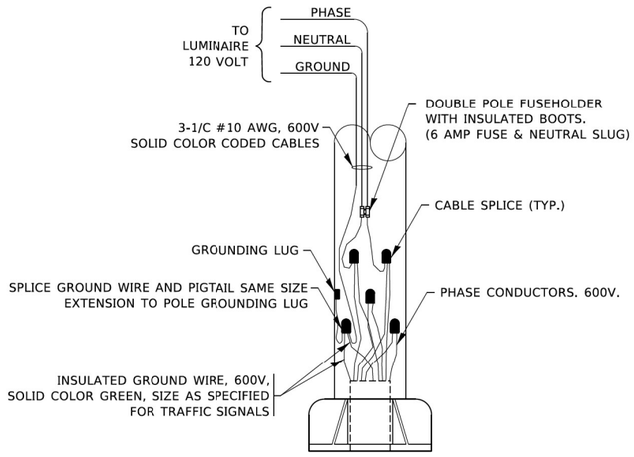


TYPICAL LIGHTING CIRCUIT

(NOT TO SCALE)





COMBINATION POLE WIRING DETAIL

(NOT TO SCALE)

NOTES

1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
2. TWO #10 (XLP-TYPE USE) CABLES TO BE USED FOR LIGHTING CIRCUITS.
3. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
5. FOR LIGHTING CIRCUITS, CONNECT TWO CIRCUIT BREAKERS TO AC SERVICE TERMINAL BLOCK.
6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
7. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
8. LIGHTING CONNECTED TO UPS BYPASS CIRCUIT.
9. COMBINATION LIGHTING MUST BE INSTALLED PRIOR TO SIGNAL TURN ON.
10. LUMINAIRE VOLTAGE SHALL BE 120V
11. POLE WIRING & FUSE KITS ARE INCLUDED IN THE LUMINAIRE PAY ITEM.
12. THE UNDERGROUND EQUIPMENT GROUND WIRE IS SHOWN IN THE TRAFFIC SIGNAL PLANS AND IS INCLUDED IN THE SIGNAL PLANS. IT IS SHARED GROUND BETWEEN SIGNALS AND LIGHTING.

IDOT STANDARD BE-240
(REV. 8-3-2021)

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PROFILE — NOTE BOOK NO. ___ — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CH'KD — BY — DATE

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		DRAWN DRK/KB/RJJ	REVISED -
	PLOT SCALE = 40'	CHECKED AJD	REVISED -
	PLOT DATE = 10/13/2021	DATE 10/13/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS (4 OF 9)
WOOD STREET RECONSTRUCTION PROJECT
DIXMOOR AND HARVEY, ILLINOIS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	348
		CONTRACT NO. 60Y72		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

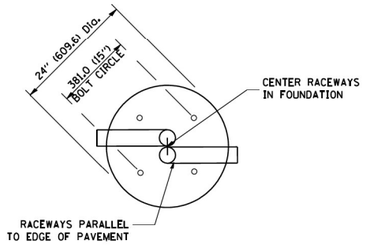
CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

PLAN — SURVEYED / PLOTTED / CROSS CHECKED / B.M. NOTED / STRUCTURE NOTATING CHKD / NOTE BOOK / NO. ____ / BY / DATE

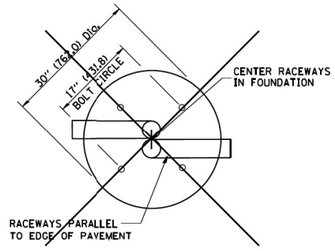
PROFILE — SURVEYED / PLOTTED / CROSS CHECKED / B.M. NOTED / STRUCTURE NOTATING CHKD / NOTE BOOK / NO. ____ / BY / DATE

LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

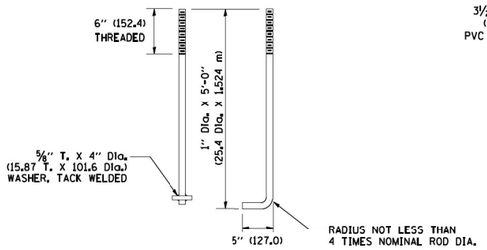
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-6" (2.09 m)	10'-9" (3.23 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND Ø = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND Ø = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND Ø = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)



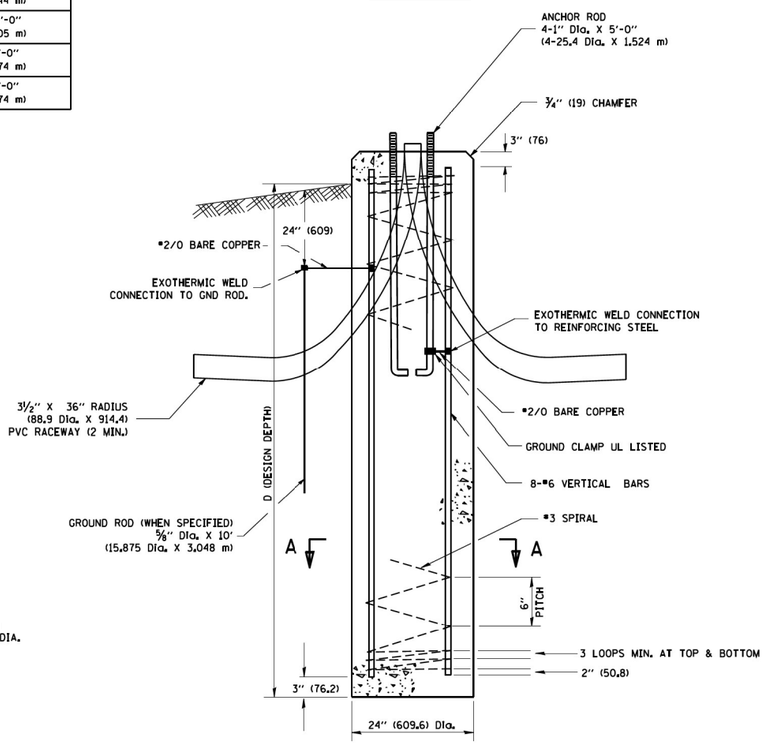
TOP VIEW



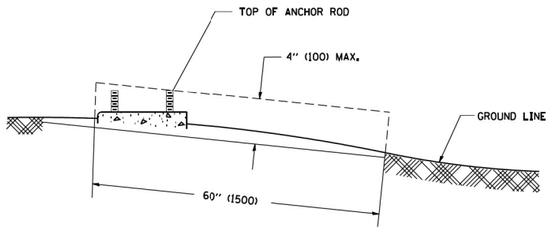
TOP VIEW



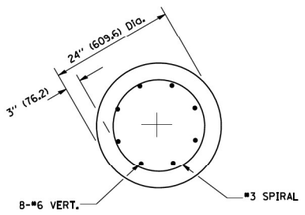
ANCHOR ROD DETAIL



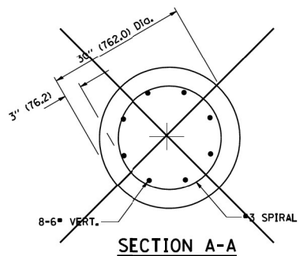
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
5. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
11. ANCHOR RODS SHALL PROJECT 2¾" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
12. THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

CONCRETE FOUNDATIONS SHALL ONLY BE USED WHERE LOCATED IN SIDEWALKS OR HARD SURFACES.

IDOT STANDARD BE-301
MODIFIED FOR THIS PROJECT

FILE NAME = N:\IDOT\150353\Mech\Advance_Contract\ACAD\LGT-13_DET-05.dgn	USER NAME = rjezierny	DESIGNED AJD	REVISED -
		DRAWN DRK/KB/RJJ	REVISED -
	PLOT SCALE = 40'	CHECKED AJD	REVISED -
	PLOT DATE = 10/13/2021	DATE 10/13/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS (5 OF 9)
WOOD STREET RECONSTRUCTION PROJECT
DIXMOOR AND HARVEY, ILLINOIS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	349
		CONTRACT NO. 60Y72		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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Rosemont, Illinois 60018
(847) 823-0500

PLAN
SURVEYED BY
PLOTTED
CHECKED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.

PROFILE
SURVEYED BY
PLOTTED
CHECKED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
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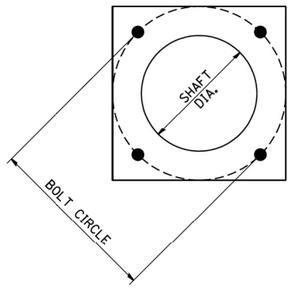
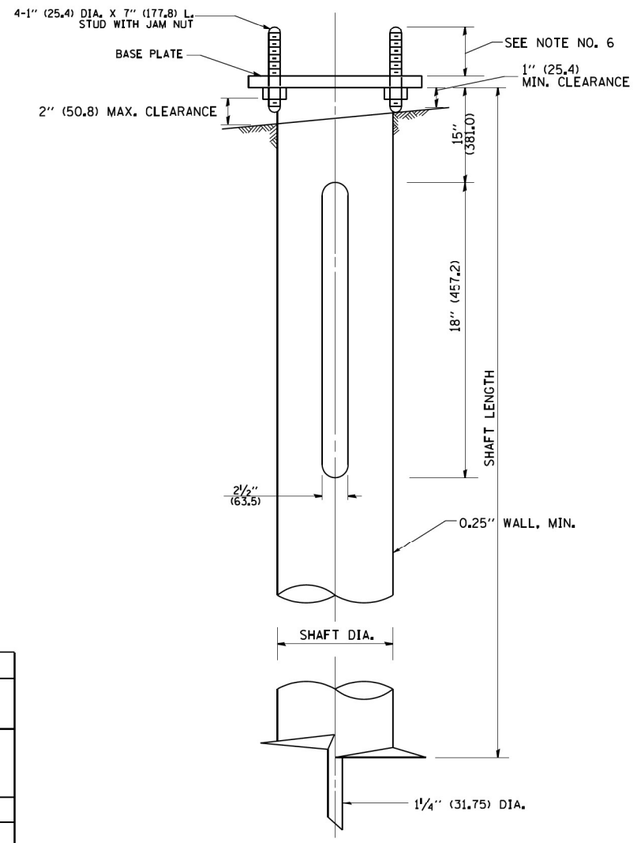
NOTE BOOK
NO.





HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11½"	8⅝"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11½"	8⅝"	6 FT.	12"x12"x1"
36 FT.-40FT.	15"	8⅝"	6 FT.	15"x15"x1¼"
41 FT.-45 FT.	15"	8⅝"	6 FT.	15"x15"x1¼"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1¼"

METAL HELIX FOUNDATION MATERIALS

ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

NOTES:

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN ¼" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDTION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS (± 1°) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE (± 2°).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

HELIX FOUNDATIONS SHALL BE USED EVERYWHERE, EXCEPT WHERE LOCATED IN SIDEWALKS OR OTHER HARD SURFACES.

IDOT STANDARD BE-305 MODIFIED FOR THIS PROJECT

FILE NAME = N:\IDOT\150353\Mech\Advance_Contract\AC\LGT-14_DET-06.dgn	USER NAME = rjezierny	DESIGNED AJD	REVISED -
		DRAWN DRK/KB/RJJ	REVISED -
	PLOT SCALE = 40'	CHECKED AJD	REVISED -
	PLOT DATE = 10/13/2021	DATE 10/13/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS (6 OF 9)
WOOD STREET RECONSTRUCTION PROJECT
DIXMOOR AND HARVEY, ILLINOIS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	350
		CONTRACT NO. 60Y72		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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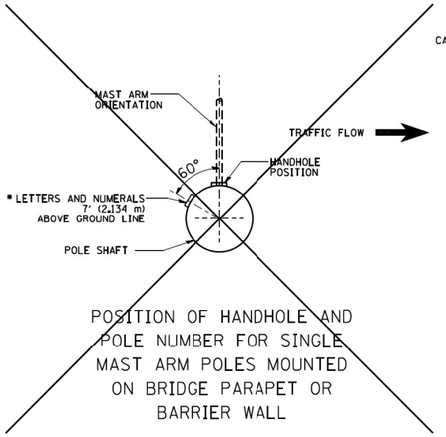
PLAN / PROFILE

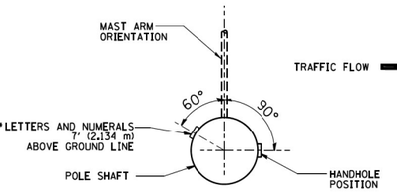
SURVEYED | DRAWN | PLOTTED | CROSS SECTIONED | QUANTITIES CHECKED | ALIGNMENT CHECKED | R.B.M. NOTED | RT. OF WAY CHECKED | STRUCTURE NOTATIONS CHKD | C400 FILE NAME

NOTE BOOK
NO. ____

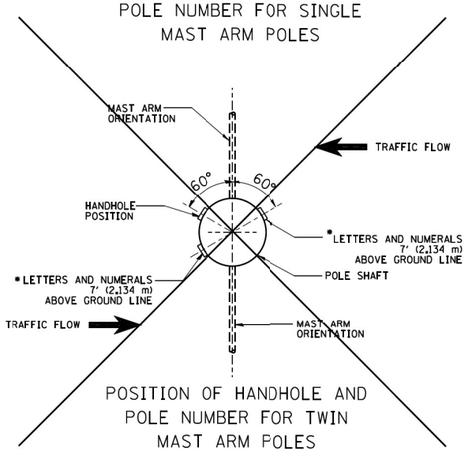
BY | DATE



POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL

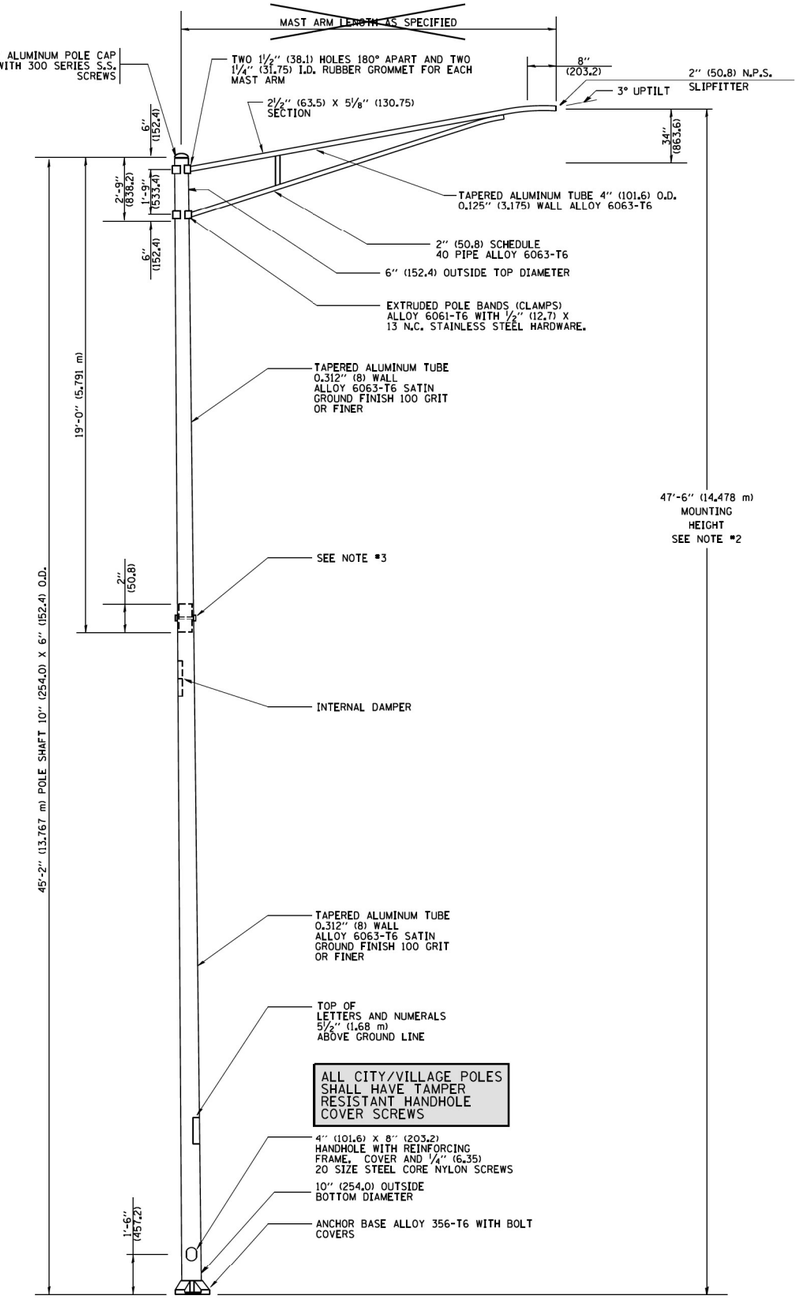


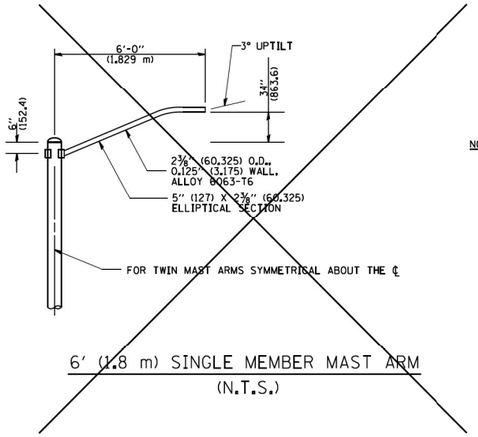
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

12'-0" FOR CITY/VILLAGE POLES
15'-0" FOR IDOT POLE

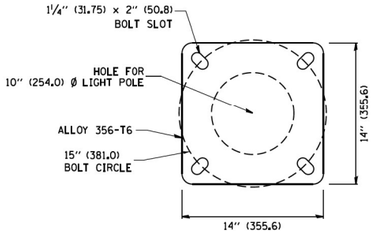




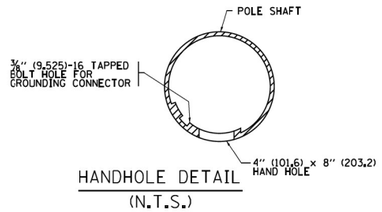
6' (1.8 m) SINGLE MEMBER MAST ARM
(N.T.S.)

NOTES:

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2023, T&B SP40L OR APPROVED EQUAL.
6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



LIGHT POLE BASE PLATE DETAIL
15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL
(N.T.S.)

IDOT STANDARD BE-400 MODIFIED FOR THIS PROJECT

FILE NAME = N:\IDOT\150353\Mech\Advance_Contract\AC_LLGT-15_DET-07.dgn	USER NAME = rjezierny	DESIGNED AJD	REVISED -
		DRAWN DRK/KB/RJJ	REVISED -
	PLOT SCALE = 40'	CHECKED AJD	REVISED -
	PLOT DATE = 10/13/2021	DATE 10/13/2021	REVISED -

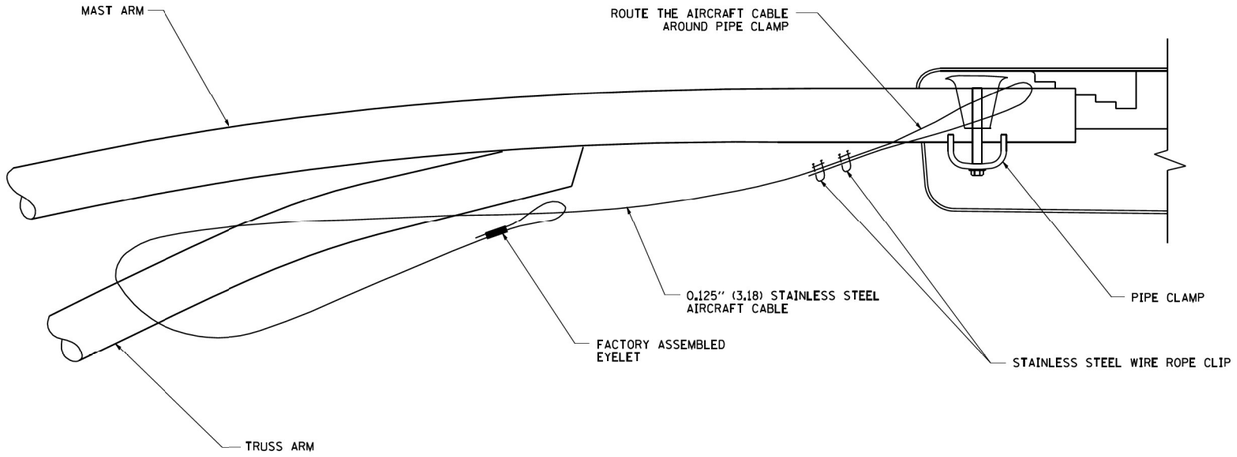
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS (7 OF 9)
WOOD STREET RECONSTRUCTION PROJECT
DIXMOOR AND HARVEY, ILLINOIS

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

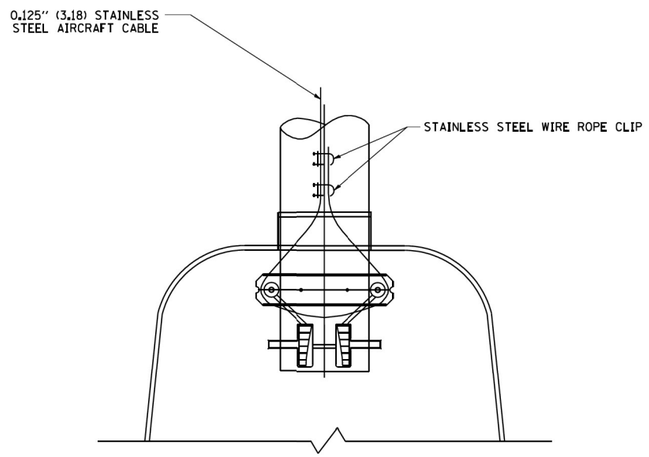
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	351
		CONTRACT NO. 60Y72		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

								557	352



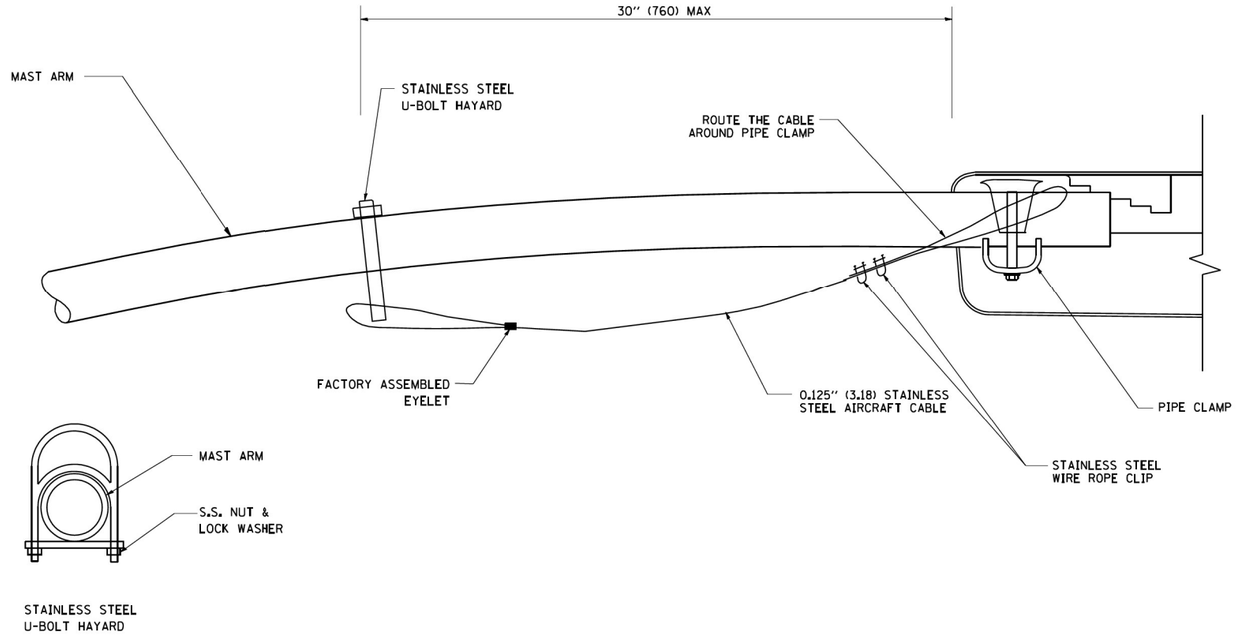
SIDE VIEW (TRUSS ARM)

N.T.S.



BOTTOM VIEW

N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)

N.T.S.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

IDOT STANDARD BE-701

FILE NAME = N:\IDOT\150353\Mech\Advance_Contract\AC_LGT-16_DET-08.dgn	USER NAME = rjezierny	DESIGNED AJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING DETAILS (8 OF 9) WOOD STREET RECONSTRUCTION PROJECT DIXMOOR AND HARVEY, ILLINOIS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40'	DRAWN DRK/KB/RJJ	REVISED -			2857	(145,146&146S-2)WRS&B-1	COOK	557	353
	PLOT DATE = 10/13/2021	CHECKED AJD	REVISED -					CONTRACT NO. 60Y72		
		DATE 10/13/2021	REVISED -		SCALE: N.T.S. SHEET OF SHEETS STA. - TO STA. -	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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Rosemont, Illinois 60018
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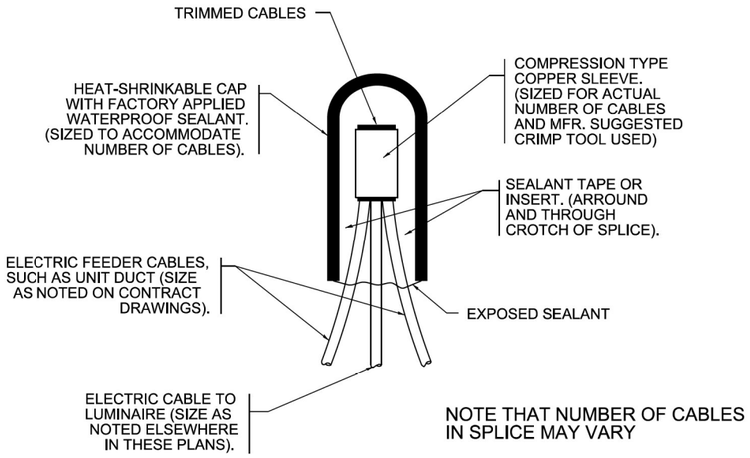
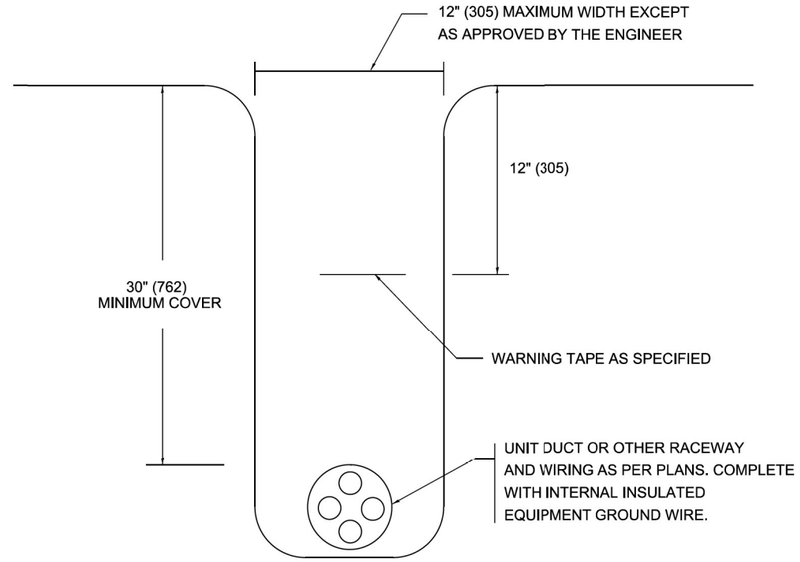
PLAN: NOTE BOOK NO. ___ SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — BY — DATE

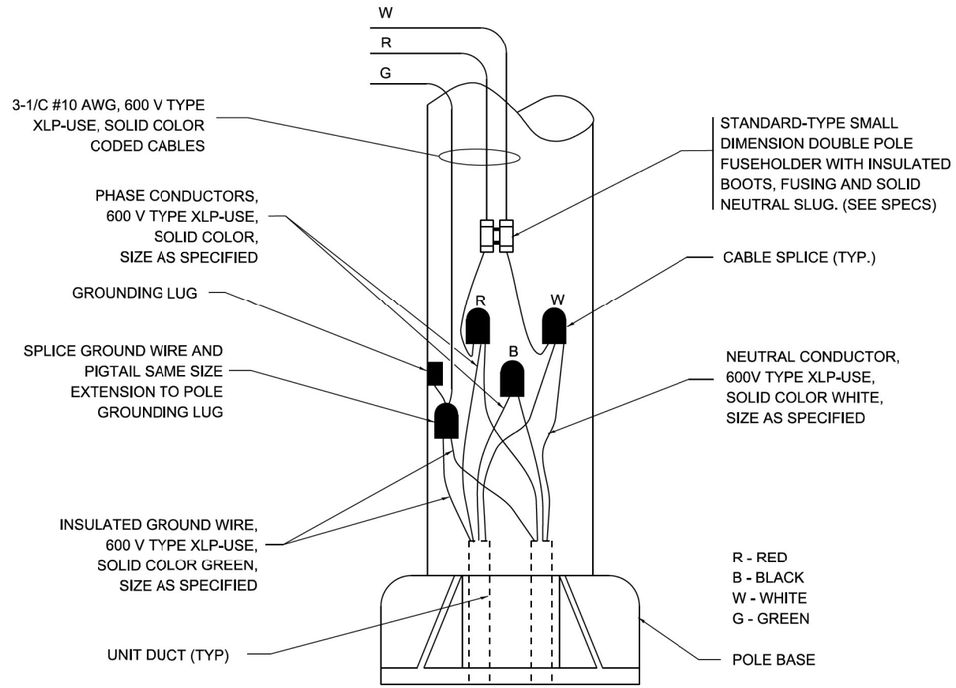
PROFILE: NOTE BOOK NO. ___ SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CH'KD — BY — DATE



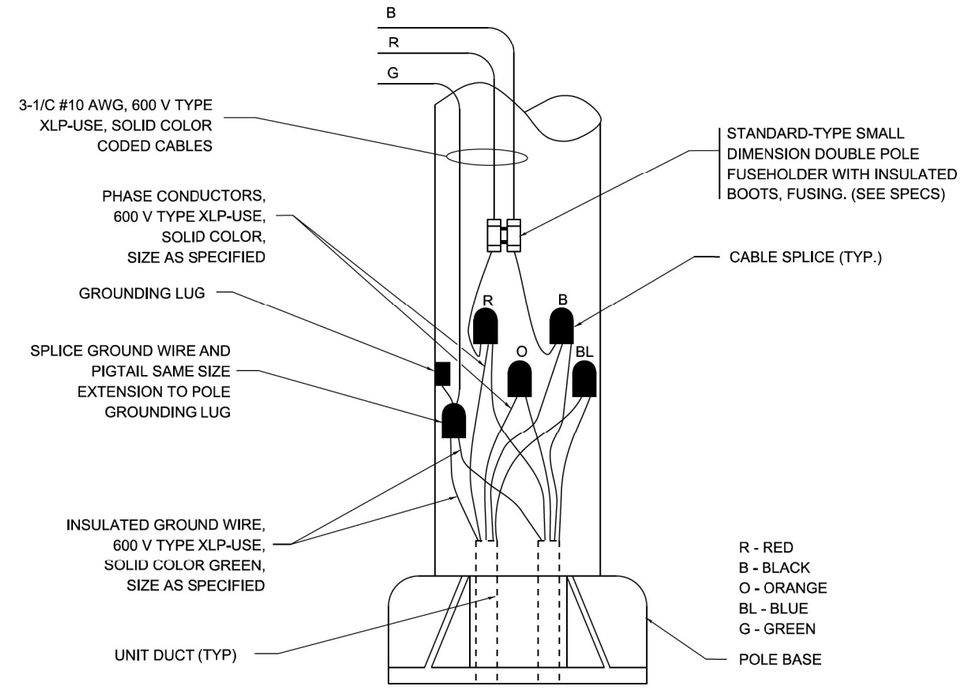
TYPICAL SPLICE DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.



POLE WIRING DETAIL FOR EXISTING LIGHTING SYSTEMS AT 159TH STREET (IDOT) AND 147TH STREET (HARVEY)
N.T.S.



POLE WIRING DETAIL FOR PROPOSED LIGHTING SYSTEMS ALONG WOOD STREET
N.T.S.

IDOT STANDARD BE-702 MODIFIED FOR THIS PROJECT

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

PLAN: NOTE BOOK NO. ___ SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / BY / DATE

PROFILE: NOTE BOOK NO. ___ SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CH'KD / BY / DATE

FILE NAME = N:\IDOT\150353\Mech\Advance_Contract\AC_LGT-17_DET-09.dgn	USER NAME = rjezierny	DESIGNED AJD	REVISED -
		DRAWN DRK/KB/RJJ	REVISED -
	PLOT SCALE = 40'	CHECKED AJD	REVISED -
	PLOT DATE = 10/13/2021	DATE 10/13/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS (9 OF 9)
WOOD STREET RECONSTRUCTION PROJECT
DIXMOOR AND HARVEY, ILLINOIS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	(145,146&146S-2)WRS&B-1	COOK	557	354
		CONTRACT NO. 60Y72		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Bench Mark: Cut "□" in west side of light pole concrete base in the island at the southeast corner of Wood Street and Thornton Road. 29.49 feet east of the roadway centerline at Station 261+27.15. Elevation = 596.04

Existing Structure: S.N. 016-0301 built in 1930 as S.B.I. Route No. 49, Section 146 B at Station 228+33.00. Superstructure replaced and bridge widened in 1995 as F.A.U. Route 2857, Section 146(B)R at Station 48+44.61. Structure consists of a four span continuous, composite rolled steel beam superstructure. Substructure consists of closed abutments supported on spread footings and solid wall piers on spread footings. Length = 238'-5 7/8" (back-to-back abutments). Width = 63'-2" (out-to-out deck). Traffic is to be maintained utilizing stage construction.

No salvage

Note: All existing elevations shown on these plans are 0.54 feet lower than the corresponding elevation shown on the existing drawings.

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elevations (ft.)					Item 113
	South Abut.	Pier 1	Pier 2	Pier 3	North Abut.	
050	573.4	564.6	557.4	557.4	571.7	7
Design	574.5	573.5	573.3	573.3	574.3	

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges
2003 AASHTO Guide Specifications for Horizontally Curved Steel Girder Highway Bridges

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS (New Construction)
f'_c = 4,000 psi (Superstructure)
f'_c = 3,500 psi (Substructure)
f_y = 60,000 psi (Reinforcement)

FIELD UNITS (Existing Superstructure)
f'_c = 3,500 psi (Concrete)
f_y = 60,000 psi (Reinforcement)
f_y = 50,000 psi (Structural Steel)(AASHTO M270 Grade 50)
f_y = 36,000 psi (Structural Steel)(AASHTO M270 Grade 36)

FIELD UNITS (Existing Substructure)
f_c = 1,400 psi (Concrete)
f_s = 20,000 psi (Reinforcement)

SEISMIC DATA

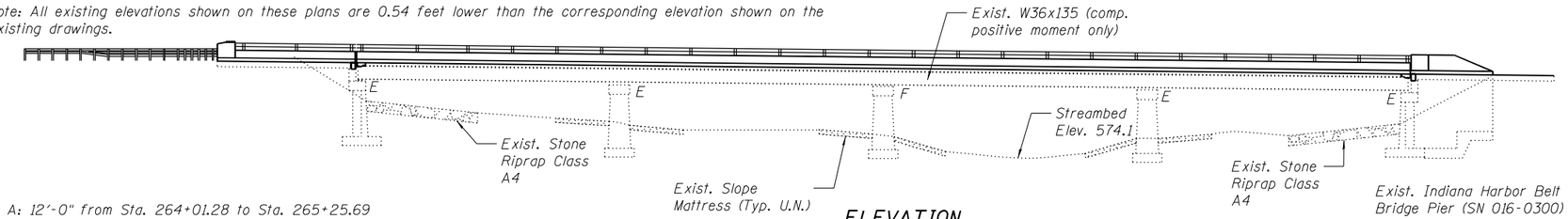
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.035g
Site Coefficient (S) = 1.0

SCOPE OF WORK

1. Remove the existing parapet and add a raised shared-use path to west side of the bridge and both approach slabs.
2. Remove the existing parapet and add a raised sidewalk to the east side of the bridge, south approach slab and a portion of the north approach slab.
3. Repair the deck and add a thin polymer overlay to the deck and both approach slabs as shown.
4. Repair the steel framing, abutments and piers as shown.

HORIZ. CURVE DATA

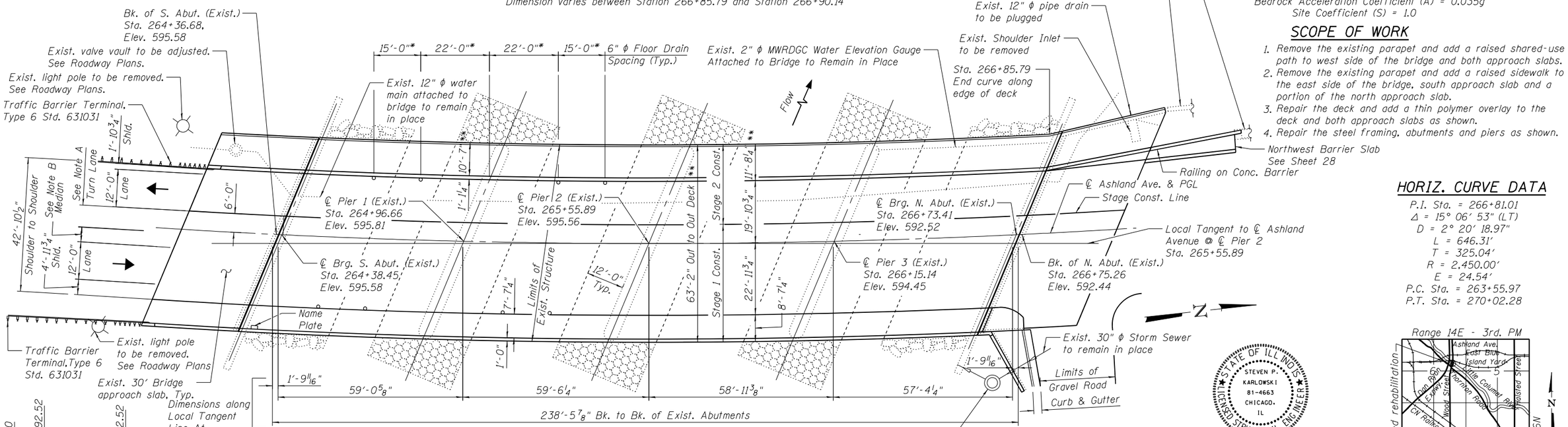
P.I. Sta. = 266+81.01
Δ = 15° 06' 53" (LT)
D = 2° 20' 18.97"
L = 646.31'
T = 325.04'
R = 2,450.00'
E = 24.54'
P.C. Sta. = 263+55.97
P.T. Sta. = 270+02.28



ELEVATION

Note A: 12'-0" from Sta. 264+01.28 to Sta. 265+25.69
Varies from 12'-0" at Sta. 265+25.69 to 0" at Sta. 267+39.78
Note B: 0" from Sta. 264+01.28 to Sta. 265+25.69
Varies from 0" at Sta. 265+25.69 to 12'-0" at Sta. 267+39.78

** Dimension shown is between Station 264+26.11 and Station 266+85.79
Dimension varies between Station 266+85.79 and Station 266+90.14



PLAN

PROFILE GRADE

(Along ℄ F.A.U. Rte. 2857)

Note:

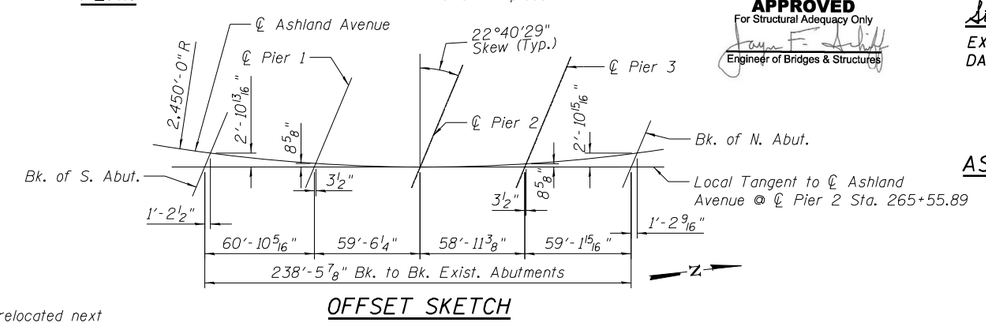
All transverse dimensions shown in the Plan are radial dimension normal to ℄ Ashland Avenue
* Measured along the outside edge of the shoulder

STATION 265+55.89
RE-BUILT BY
STATE OF ILLINOIS
F.A.U. RT. 2857 SEC. 146(B)R
LOADING HS20
STR. NO. 016-0301

NAME PLATE

See Std. 515001

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.



OFFSET SKETCH

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

STATE OF ILLINOIS
STEVEN P. KARLOWSKI
81-4663
CHICAGO, IL
LICENSED STRUCTURAL ENGINEER

Steven P. Karlowski
EXP. 11/30/2018
DATE: 4/7/2017

LOCATION SKETCH

GENERAL PLAN & ELEVATION
ASHLAND AVENUE OVER LITTLE CALUMET RIVER
F.A.U RTE. 2857 - SECTION 146(B)R
COOK COUNTY
STA. 265+55.89
STRUCTURE NUMBER 016-0301

INFRASTRUCTURE ENGINEERING, INCORPORATED 1 South Wacker	Suite 2650	Chicago, IL 60606 P: 312.425.9566 | F: 312.425.9564 | www.infrastructure-eng.com	
USER NAME = APatterson	DESIGNED - SPK	REVISED -	
	CHECKED - PK	REVISED -	
PLOT SCALE = 0.1667 ' / in.	DRAWN - PK	REVISED -	
PLOT DATE = 12/3/2021	CHECKED - SPK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO 1 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	355
		CONTRACT NO. 62P45		
	ILLINOIS FED. AID PROJECT			

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INDEX OF SHEETS

1. General Plan and Elevation
2. General Notes, Total Bill of Material and Index of Sheets
3. Stage Construction Details
4. Temporary Concrete Barrier for Stage Construction
5. Deck Repair and Concrete Removal
6. Deck Alterations
7. Deck Section and Details
8. Parapets
9. Superstructure Details
10. Superstructure Details and Bill of Material
11. South and North Bridge Approach Slab Concrete Removal
12. South Bridge Approach Slab Alterations
13. South Bridge Approach Slab Details
14. North Bridge Approach Slab Alterations
15. North Bridge Approach Slab Details
16. Bicycle Railing
17. Aluminium Railing, Type L
18. Preformed Joint Strip Seal
19. Framing Plan and Diaphragm Repair Detail
20. South Abutment Repairs and Concrete Removal
21. South Abutment Alterations
22. North Abutment Repairs and Concrete Removal
23. North Abutment Alterations
24. North Abutment Details
25. Pier 1 Repairs
26. Pier 2 Repairs
27. Pier 3 Repairs
28. Northwest Barrier Slab
29. Bar Splicer Assembly and Mechanical Splicer Details

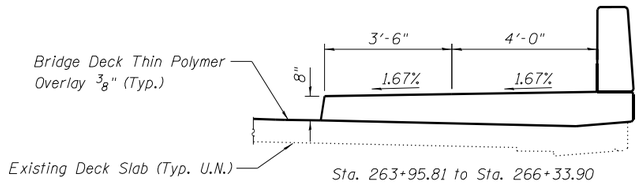
GENERAL NOTES

1. Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts $^{3}/_{4}$ in. ϕ, holes $^{15}/_{16}$ in. ϕ, unless otherwise noted.

2. Reinforcement bars designated (E) shall be epoxy coated.

3. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

4. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.



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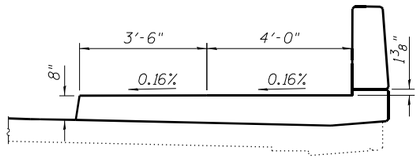

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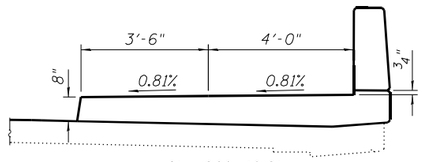
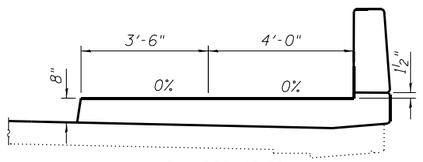


Sta. 266+40.81



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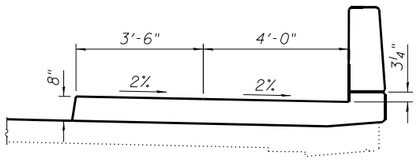
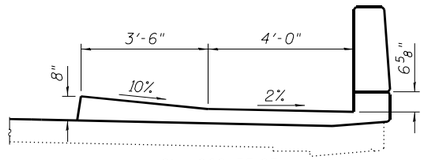
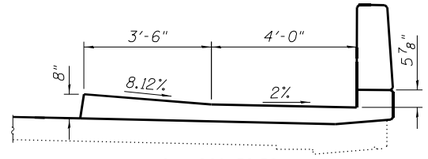


Sta. 266+46.94

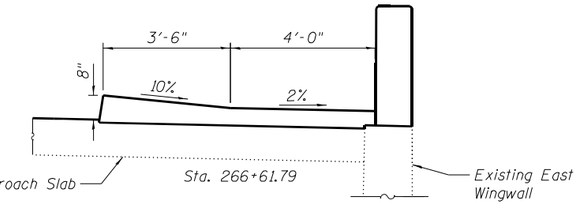


Sta. 266+55.63

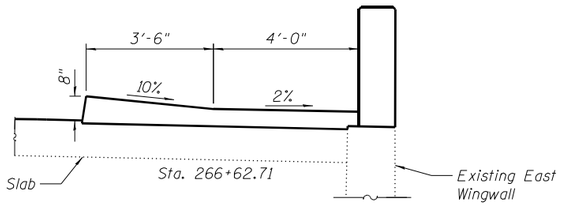


Sta. 266+59.58

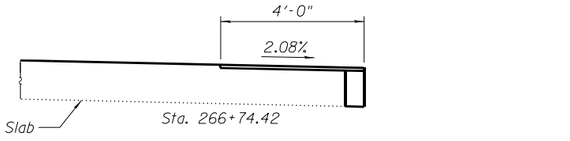
SIDEWALK CROSS SLOPE TRANSITIONS



Sta. 266+61.79



Sta. 266+62.71



Sta. 266+74.42

SIDEWALK CROSS SLOPE TRANSITIONS (CONT.)

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	TOTAL
	Concrete Removal	Cu. Yd.	73.3	1.2	74.5
	Structure Excavation	Cu. Yd.		16	16
	Floor Drains	Each	8		8
	Concrete Superstructure	Cu. Yd.	249.7		249.7
*	Protective Coat	Sq. Yd.	1,017		1,017
	Reinforcement Bars, Epoxy Coated	Pound	29,320		29,320
	Bar Splicers	Each	28		28
	Aluminum Railing, Type L	Foot	264		264
	Bicycle Railing	Foot	303		303
	Parapet Railing	Foot	327		327
	Name Plates	Each	1		1
	Preformed Joint Strip Seal	Foot	141		141
	Epoxy Crack Injection	Foot		409.5	409.5
	Structural Steel Repair	Pound	10		10
	Concrete Bridge Deck Scarification $^{3}/_{8}$ Inch	Sq. Yd.	1,575		1,575
	Bridge Deck Thin Polymer Overlay $^{3}/_{8}$"	Sq. Yd.	1,575		1,575
	Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.		7.9	7.9
	Plug Existing Deck Drains	Each	24		24
	Deck Slab Repair (Partial)	Sq. Yd.	0.6		0.6

* Quantity is for the curbs, top of shared use path, top of sidewalk, entire west parapet and roadway face and top of east parapet from south end of south end posts to north end of northwest barrier and north end of northeast endpost. Quantity is also for the top of the new concrete on both abutment backwalls and the top of the new concrete in the deck at the expansion joints.

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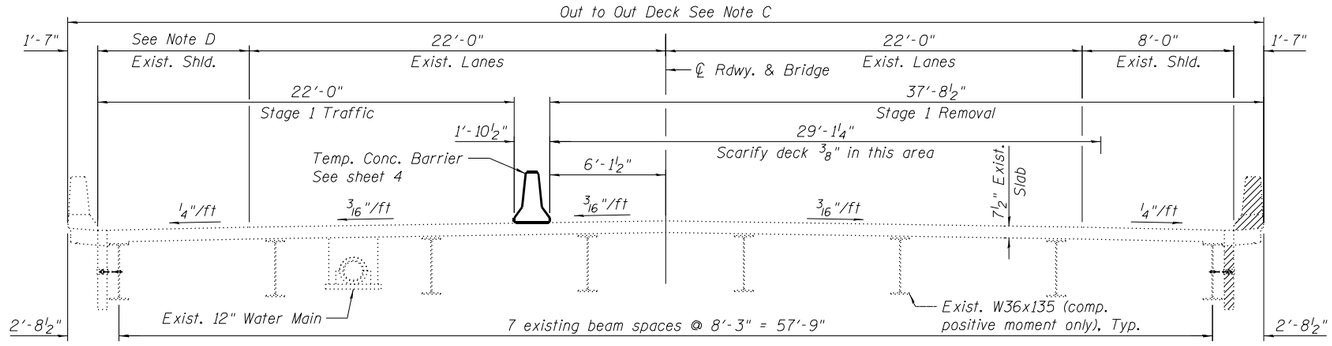
INFRASTRUCTURE ENGINEERING | INCORPORATED
1 South Wacker | Suite 2650 | Chicago, IL 60606
P: 312.425.1590 | F: 312.425.1594 | www.infrastructure-eng.com

USER NAME = APatterson	DESIGNED - SPK	REVISED -
	CHECKED - PK	REVISED -
PLOT SCALE = 0.1667 ' / in.	DRAWN - RD	REVISED -
PLOT DATE = 12/3/2021	CHECKED - SPK	REVISED -

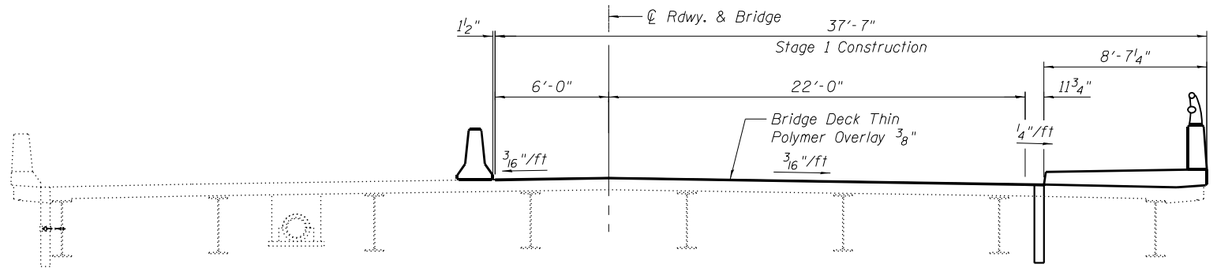
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, TOTAL BILL OF MATERIAL, AND INDEX OF SHEETS
STRUCTURE NO. 016-0301
SHEET NO 2 OF 29 SHEETS

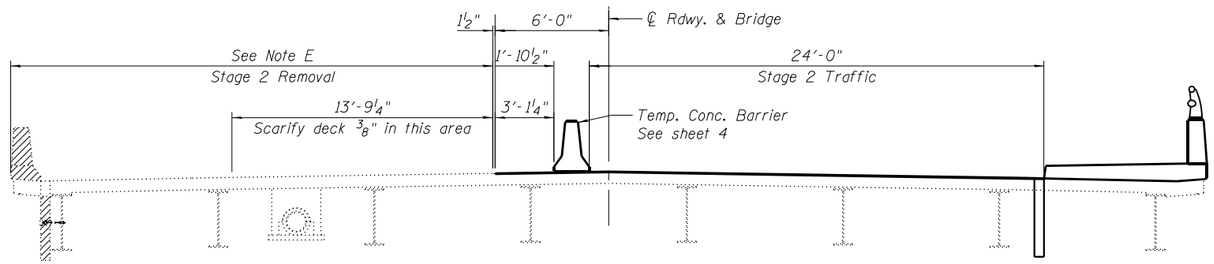
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	356
		CONTRACT NO. 62P45		
	ILLINOIS FED. AID PROJECT			



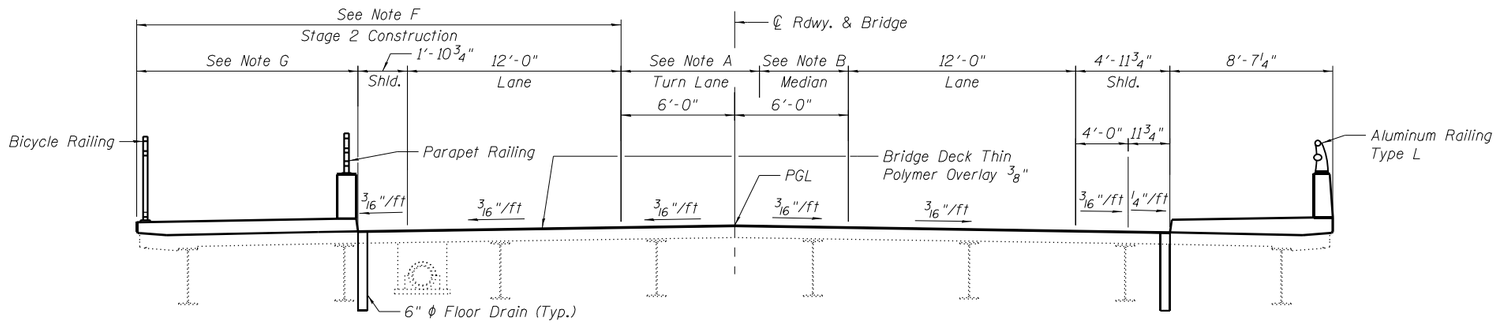
STAGE 1 REMOVAL



STAGE 1 CONSTRUCTION



STAGE 2 REMOVAL



STAGE 2 CONSTRUCTION

Notes:

All staging cross sections are looking North.
All horizontal dimensions in the staging cross sections are radial dimensions.
Hatched area indicates material to be removed.

Note A: 12'-0" from Sta. 264+01.28 to Sta. 265+25.69;
Varies from 12'-0" at Sta. 265+25.69 to 0" at Sta. 267+25.69

Note B: 0" from Sta. 264+01.28 to Sta. 265+25.69;
Varies from 0" at Sta. 265+25.69 to 12'-0" at Sta. 267+39.78

Note C: 63'-2" from Sta. 264+26.11 to Sta. 266+85.79;
Varies from 63'-2" at Sta. 266+85.79 to 63'-11⅛" at Sta. 266+90.14

Note D: 8'-0" from Sta. 264+26.11 to Sta. 266+85.79;
Varies from 8'-0" at Sta. 266+85.79 to 8'-9⅛" at Sta. 266+90.14

Note E: 25'-5½" from Sta. 264+26.11 to Sta. 266+85.79;
Varies from 25'-5½" at Sta. 266+85.79 to 26'-2⅝" at Sta. 266+90.14

Note F: 25'-7" from Sta. 264+26.11 to Sta. 266+85.79;
Varies from 25'-7" at Sta. 266+85.79 to 26'-4⅛" at Sta. 266+90.14

Note G: 11'-8¼" from Sta. 264+26.11 to Sta. 266+85.79;
Varies from Sta. 266+85.79 to Sta. 266+90.14

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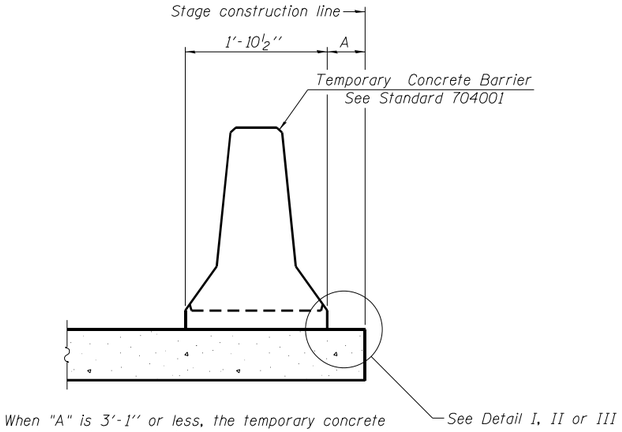
INFRASTRUCTURE ENGINEERING INCORPORATED 1 South Wacker | Suite 2650 | Chicago, IL 60606 P 312.425.9560 | F 312.425.9564 | www.infrastructure-eng.com	USER NAME = APatterson	DESIGNED - SPK	REVISED -
		CHECKED - PK	REVISED -
	PLOT SCALE = 0.1667 ' / in.	DRAWN - PK	REVISED -
	PLOT DATE = 12/3/2021	CHECKED - SPK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 016-0301

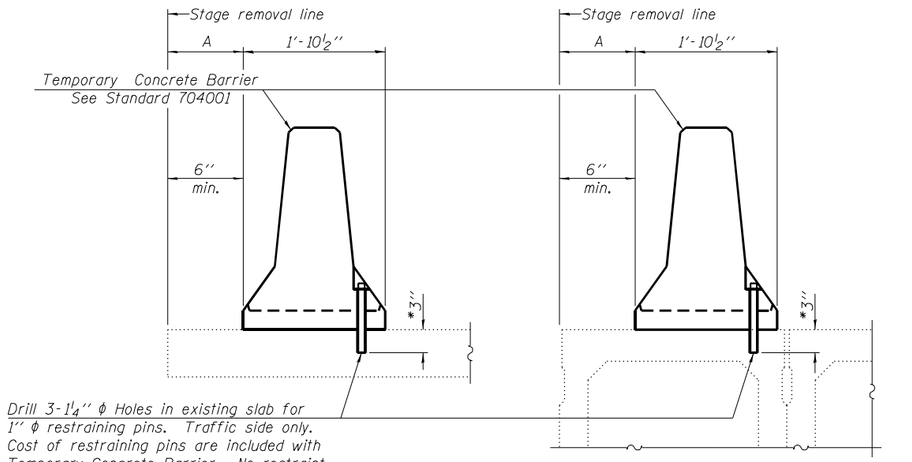
SHEET NO 3 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	357
		CONTRACT NO. 62P45		
		ILLINOIS FED. AID PROJECT		



When "A" is 3'-1'' or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1''.

NEW SLAB OR NEW DECK BEAM



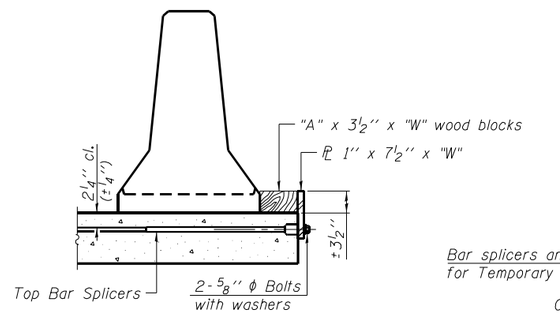
Drill 3-1¼'' ϕ Holes in existing slab for 1'' ϕ restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when ''A'' is greater than 3'-1''.

EXISTING SLAB

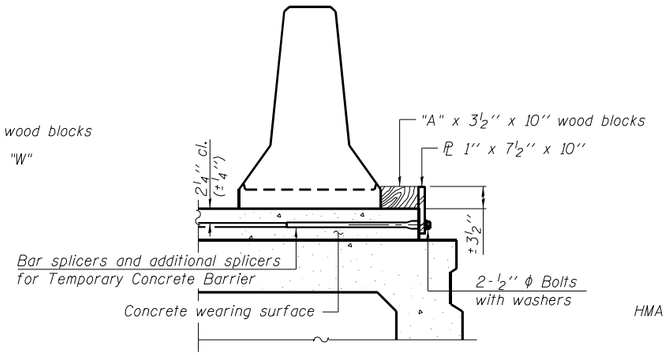
* When hot-mix asphalt wearng surface is present, embedment shall be 3'' plus the wearing surface depth.

EXISTING DECK BEAM

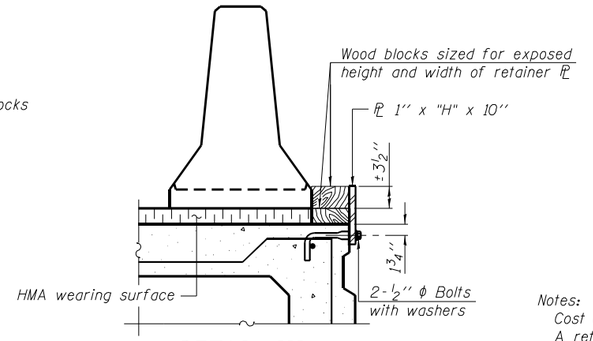
SECTIONS THRU SLAB OR DECK BEAM



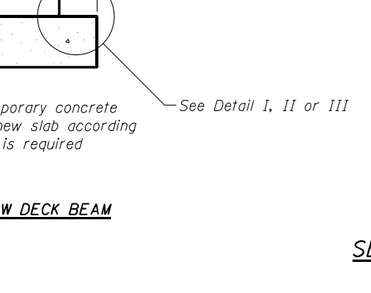
DETAIL I



DETAIL II

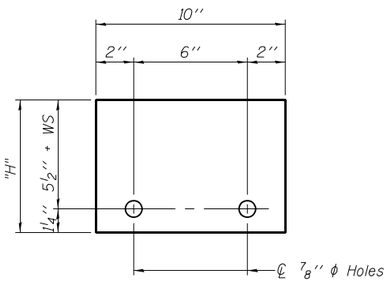


DETAIL III



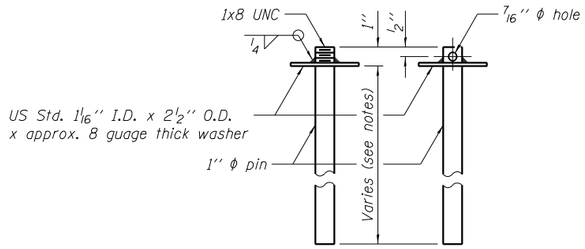
STEEL RETAINER ℄ 1'' x 7½'' x "W"

(Detail I and II)

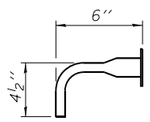


STEEL RETAINER ℄ 1'' x "H" x 10''

(Detail III)



RESTRAINING PIN



BAR SPLICER FOR #4 BAR - DETAIL III

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier.

A retainer assembly shall be located at the approximate ℄ of each temporary concrete barrier.

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than 1½'', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6'' to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0'' centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6'' apart, shall be placed at 6'-0'' centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

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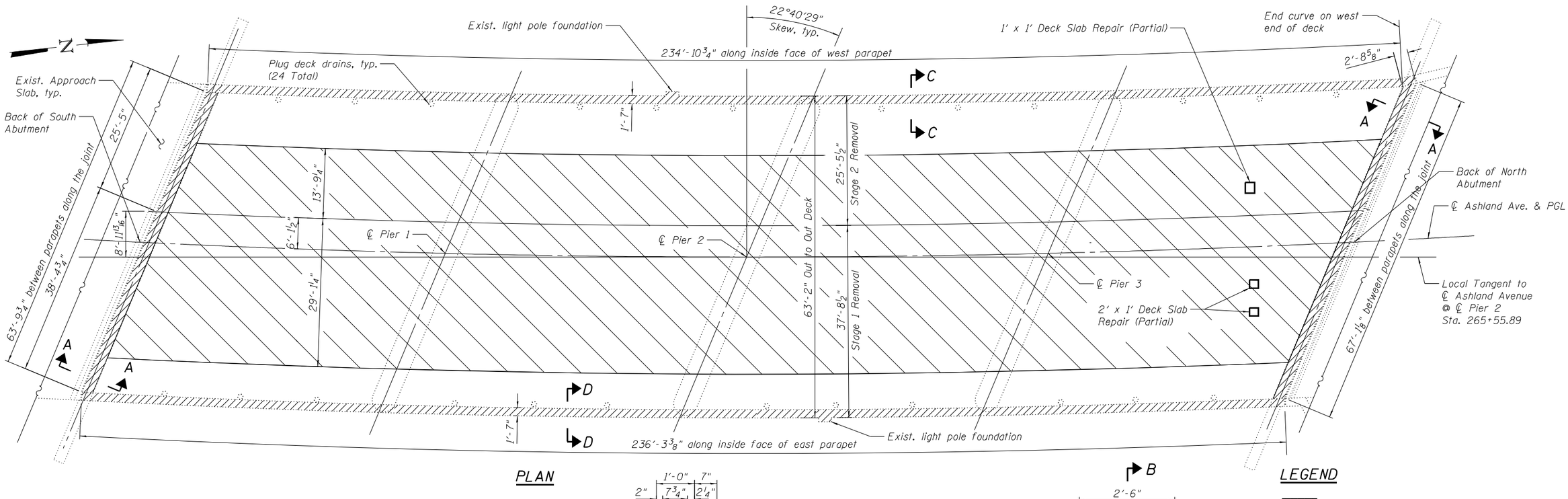
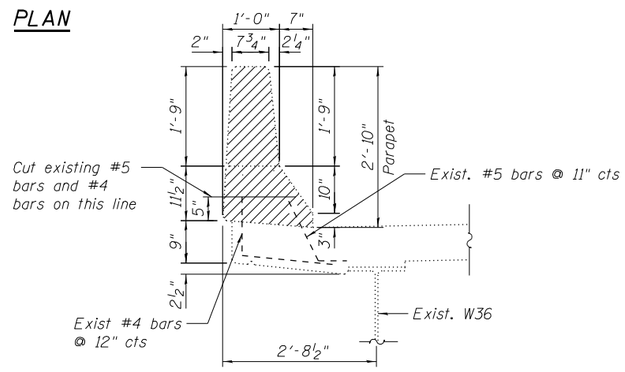
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 016-0301
SHEET NO 4 OF 29 SHEETS

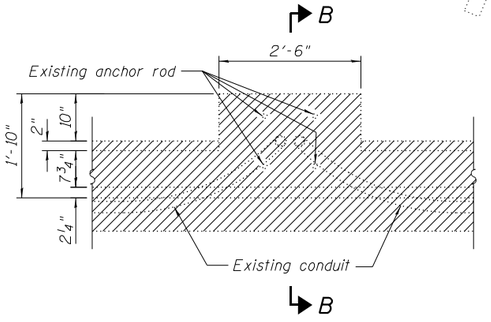
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	358
		CONTRACT NO. 62P45		
	ILLINOIS FED. AID PROJECT			



PLAN



SECTION C-C



PLAN VIEW OF LIGHT POLE FOUNDATION

LEGEND

- Concrete Removal
- Deck Scarification 3/8"

Notes:

All transverse dimensions shown in the Plan except as noted are radial dimension normal to ℄ Ashland Avenue.

Repair of the existing deck shall include but not be limited to the areas shown. The actual areas to be repaired will be determined by the Engineer at the time of construction.

The Engineer is to record the actual deck repair areas on the as-built plans.

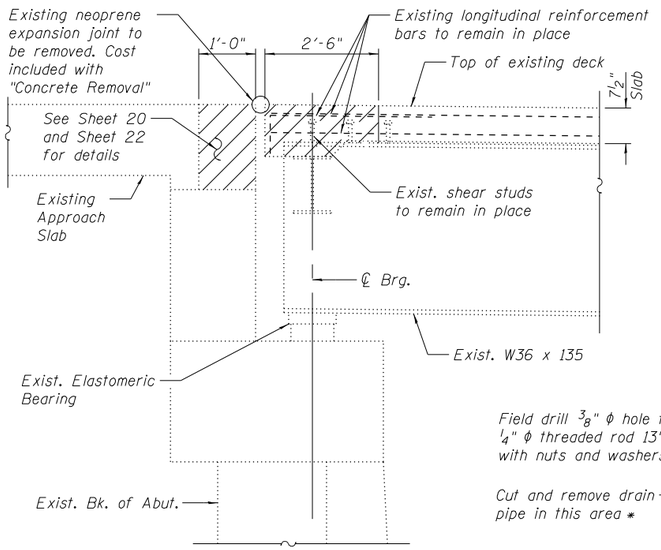
Existing reinforcement bars that project from the deck after concrete removal are to remain in place. The existing reinforcement bars shall be cleaned, straightened and incorporated into the new construction. Cost included with Concrete Removal.

Any reinforcement bars that are damaged during concrete removal operations shall be replaced using an approved bar splicer or anchorage system. Cost included with "Concrete Removal".

Existing anchor rods are to be cut flush with the concrete left in place and the exposed end of the rods is to be coated with an approved anti-rust compound. Cost included with "Concrete Removal".

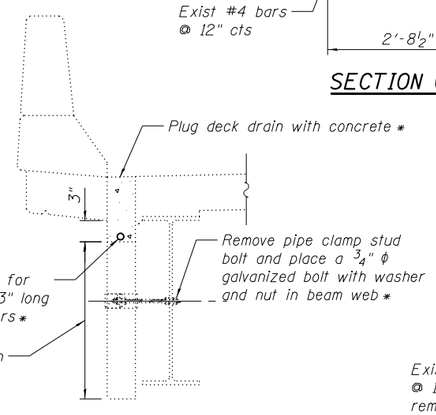
BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	55.8
Concrete Bridge Deck Scarification 3/8 Inch	Sq. Yd.	1.108
Plug Existing Deck Drains	Each	24
Deck Slab Repair (Partial)	Sq. Yd.	0.6



SECTION A-A

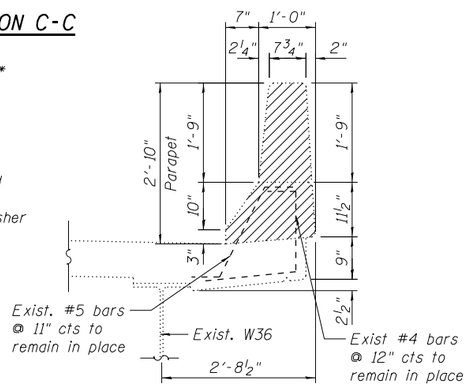
(Dimensions are at right angle)



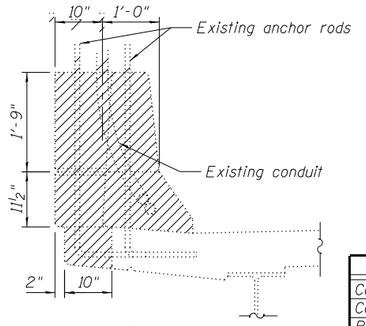
* Cost included in Plug Existing Deck Drains. See Special Provisions.

DECK DRAIN ELIMINATION DETAIL

(Section at drain)



SECTION D-D



SECTION B-B

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DEPARTMENT OF TRANSPORTATION

DECK REPAIR AND CONCRETE REMOVAL
STRUCTURE NO. 016-0301
SHEET NO 5 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P45		
		ILLINOIS FED. AID PROJECT		

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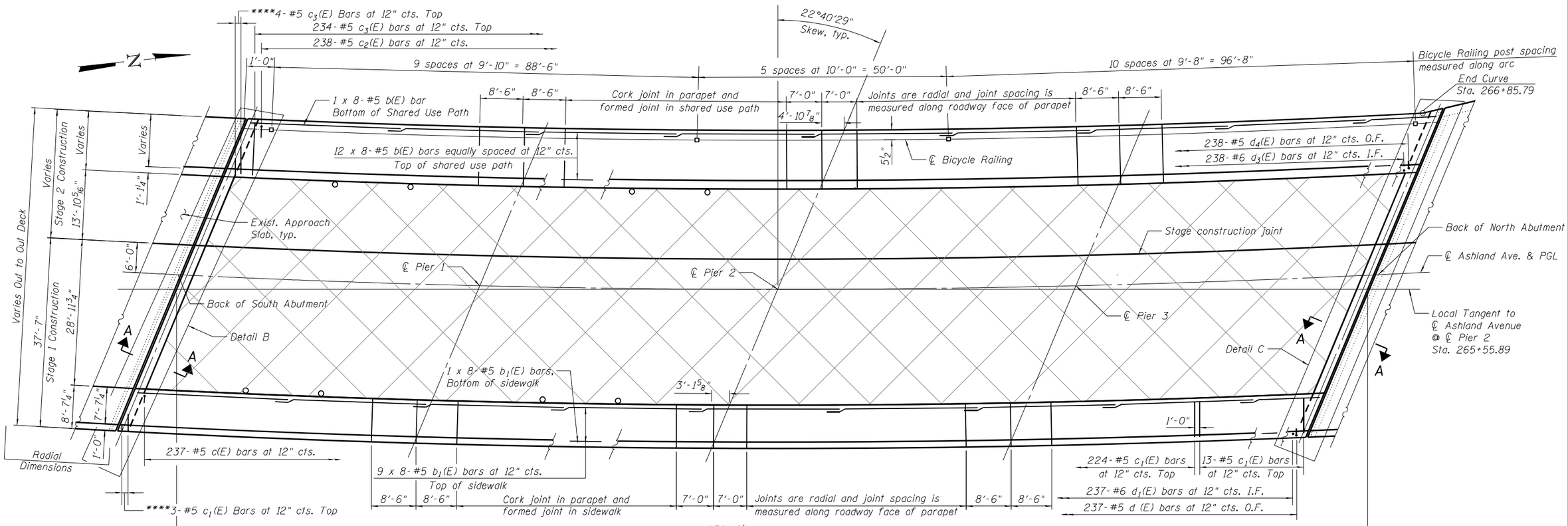
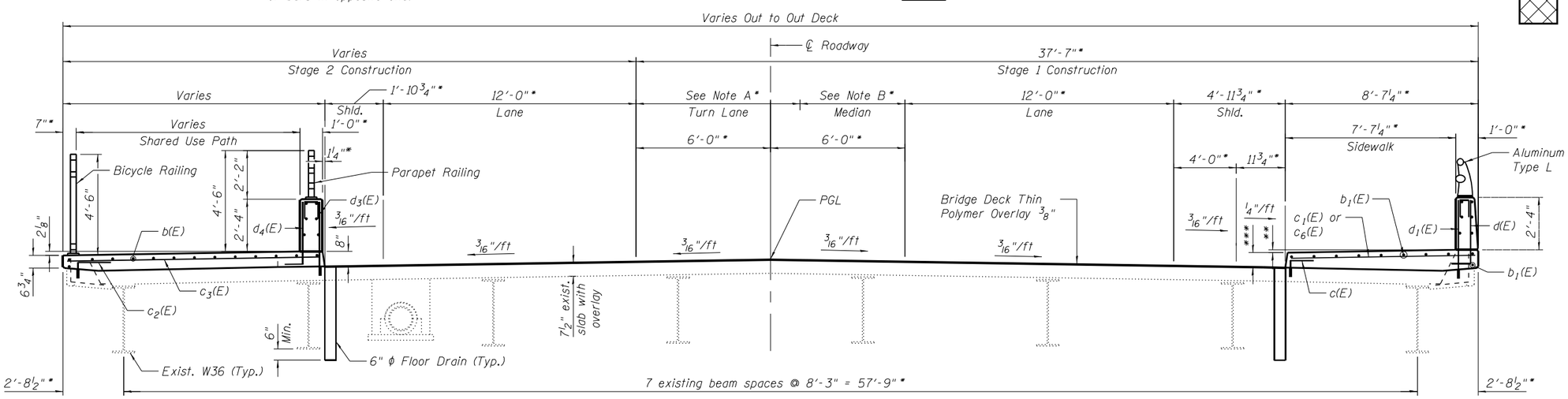


**** Order $c_1(E)$ & $c_3(E)$ bars full length. Cut to fit skew and use remainder of bars in opposite end.

PLAN



LEGEND

Limit of Bridge Deck Thin Polymer Overlay 3/8"

MINIMUM BAR LAP

#5 bar = 2'-6"

Notes:

For Section A-A, Detail B and Detail C see Sheet 7.

For parapet reinforcement see Sheet 8.

For superstructure details see Sheet 9.

For Bill of Material and bar bending details see Sheet 10.

For Bicycle Railing details see Sheet 16.

Bars indicated thus 9 x 8- #5 etc. indicates 9 lines of bars with 8 lengths per line.

* Radial Dimension

** 1 1/2" South of Sta. 266+33.90
Varies North of Sta. 266+33.90
See Sidewalk Cross Slope Transitions on Sheet 2

*** 8" south of Sta. 266+62.71
Varies North of Sta. 266+62.71
See Sidewalk Cross Slope Transitions on Sheet 2.

CROSS SECTION

(Looking North)

Note A: 12'-0" from Sta. 264+01.28 to Sta. 265+25.69
Varies from 12'-0" at Sta. 265+25.69 to 0" at Sta. 267+39.78
Note B: 0" from Sta. 264+01.28 to Sta. 265+25.69
Varies from 0" at Sta. 265+25.69 to 12'-0" at Sta. 267+39.78

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DECK ALTERATIONS
STRUCTURE NO. 016-0301
SHEET NO 6 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P45		
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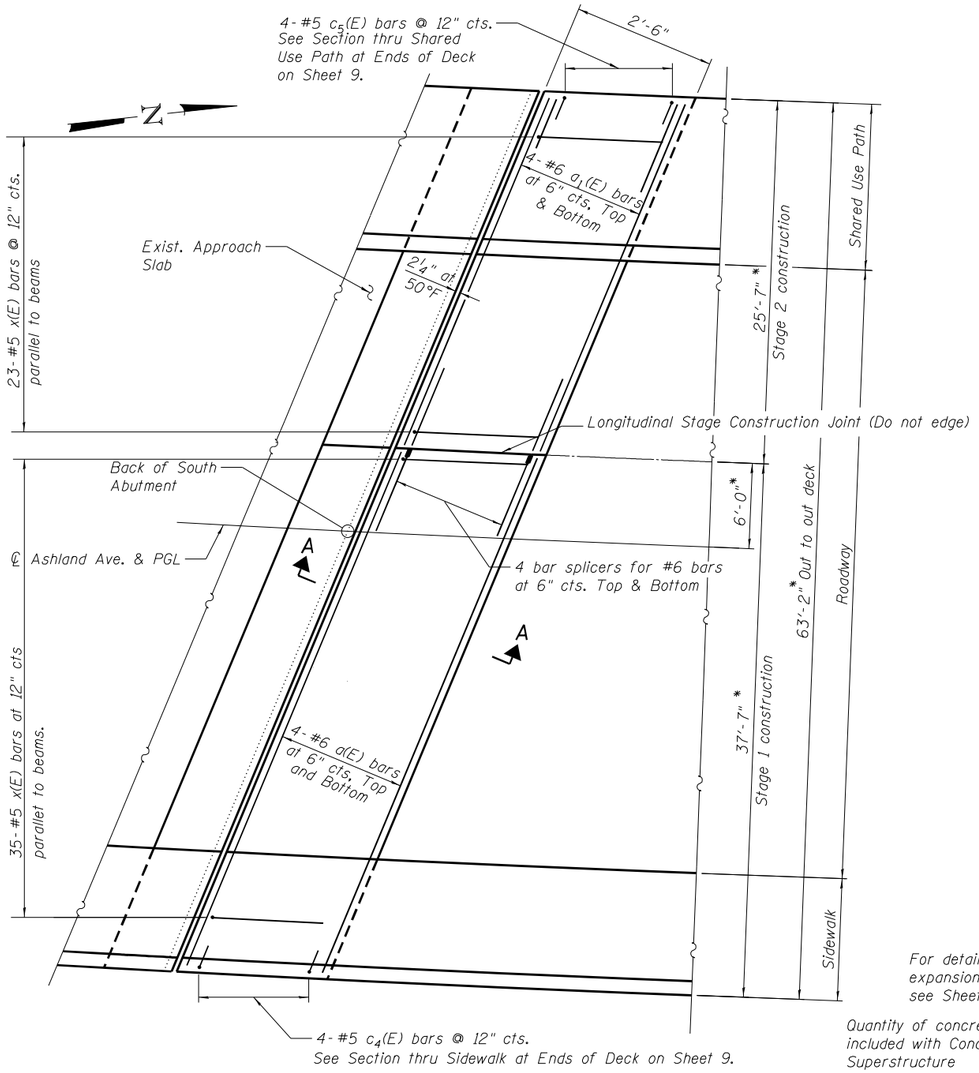
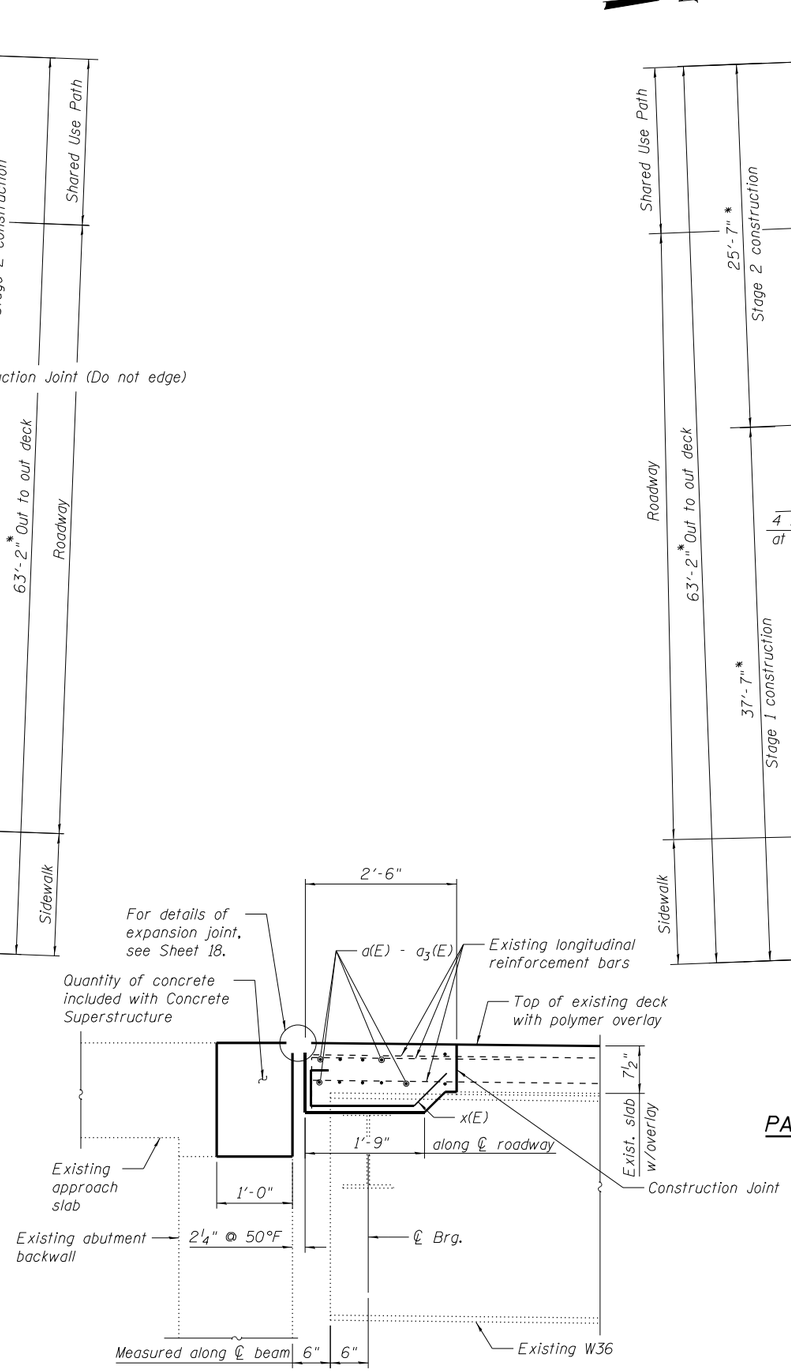


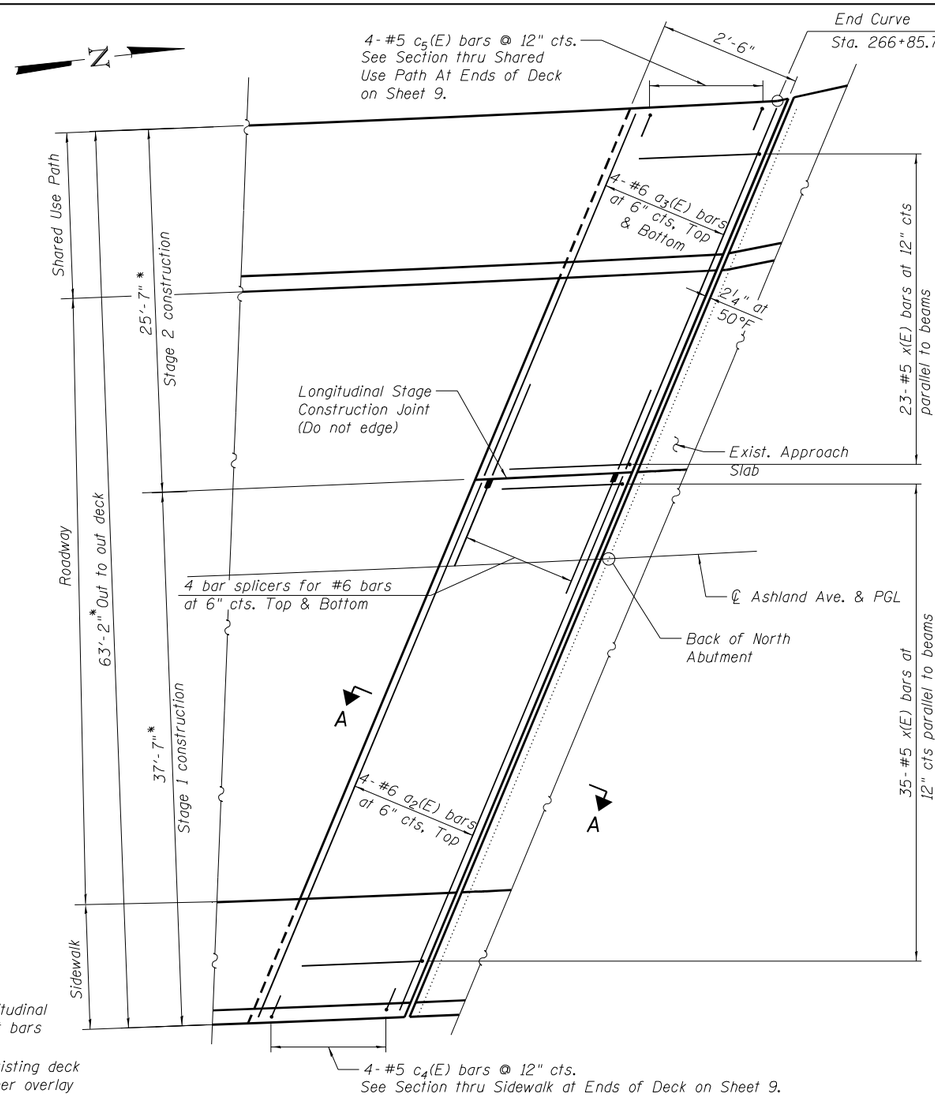
DETAIL B

PARTIAL PLAN AT SOUTH END OF DECK



SECTION A-A

(Dimensions are at right angle to the joint unless noted)



DETAIL C

PARTIAL PLAN AT NORTH END OF DECK

Notes:

For Deck Plan see Sheet 6.

For Bill of Material and Bar Bending Details see Sheet 10.

For detail of Bar Splicer see Sheet 29.

** Radial dimension south of end curve station.*

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DECK SECTION AND DETAILS
STRUCTURE NO. 016-0301
SHEET NO 7 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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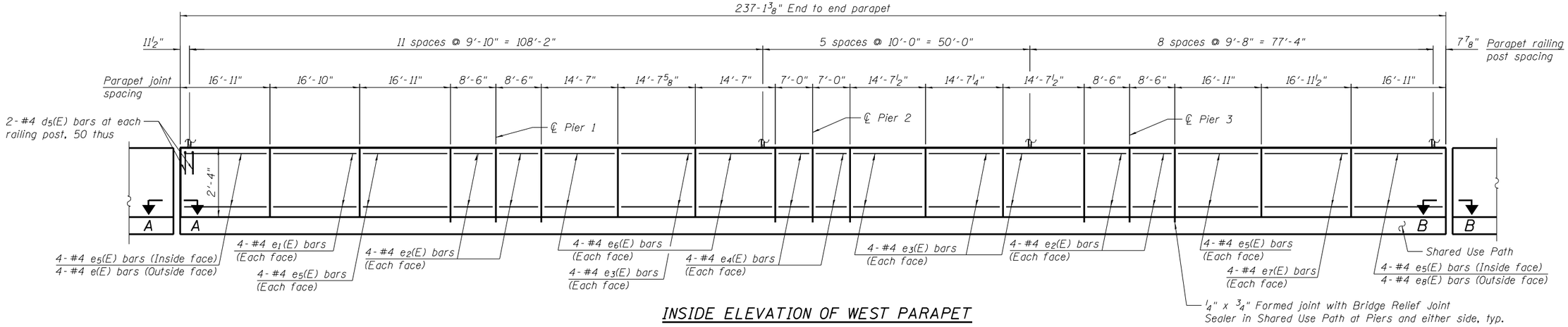
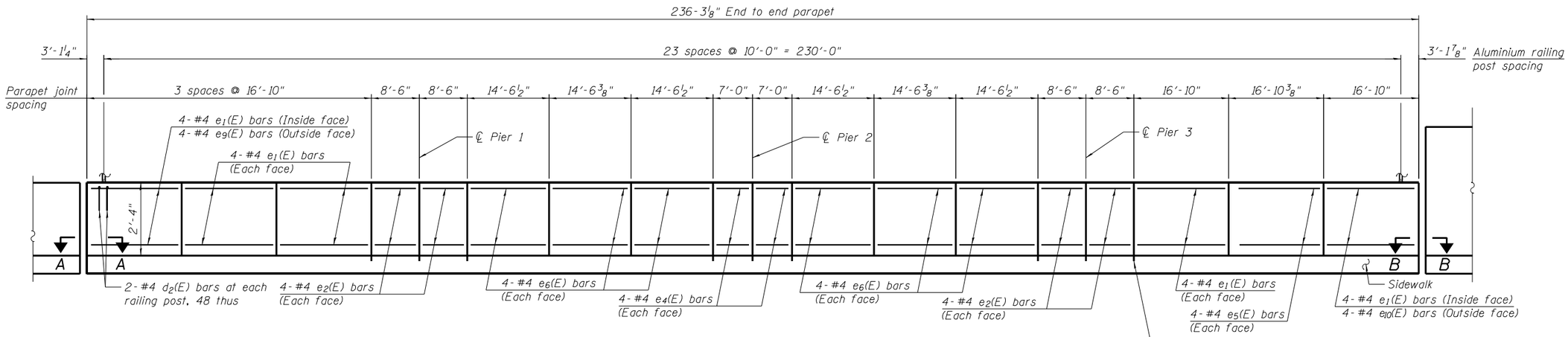
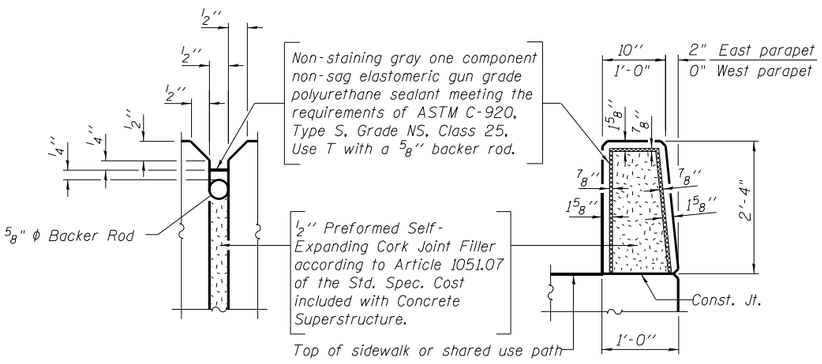


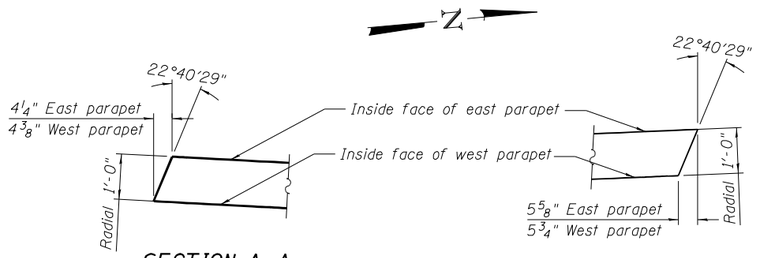
INSIDE ELEVATION OF WEST PARAPET



INSIDE ELEVATION OF EAST PARAPET



PARAPET JOINT DETAILS



SECTION A-A

SECTION B-B

Notes:

For Deck Plan see Sheet 6.

For Superstructure Details see Sheet 9.

For Bill of Material and bar bending details see Sheet 10.

For Parapet Railing details see Sheet 16.

For Aluminium Railing see Sheet 17.

Inside Face refers to the face nearest the roadway.

All dimensions for the Inside Elevation Views of the parapets are measured along the roadway face of the parapet.

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PARAPETS
STRUCTURE NO. 016-0301
SHEET NO 8 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P45		
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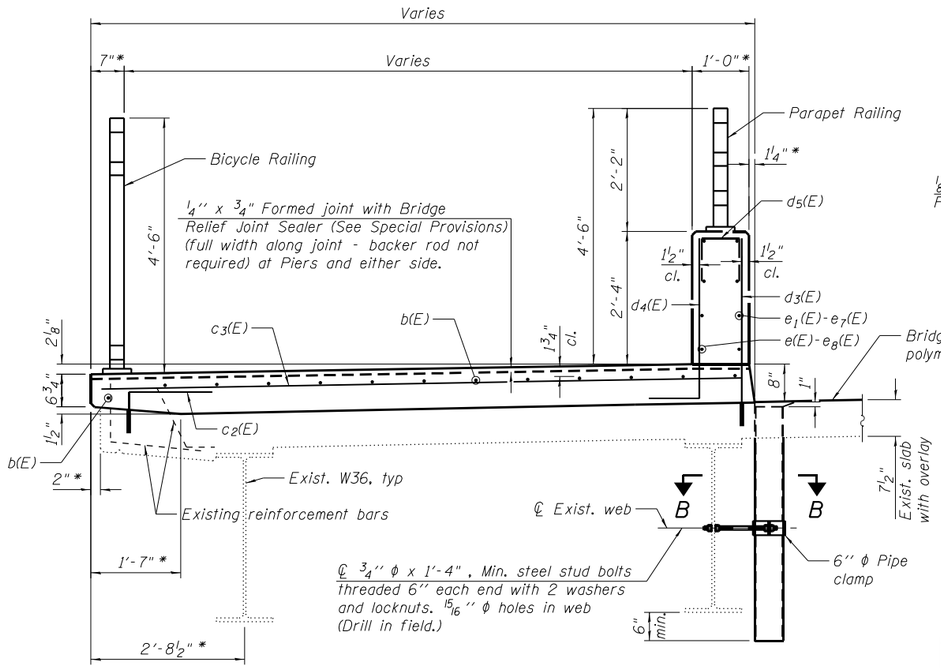
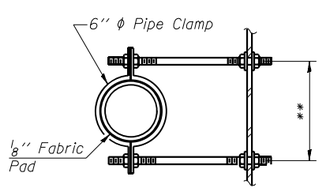
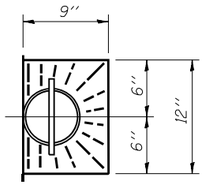


SECTION THRU SHARED USE PATH ON EXISTING DECK



SECTION B-B

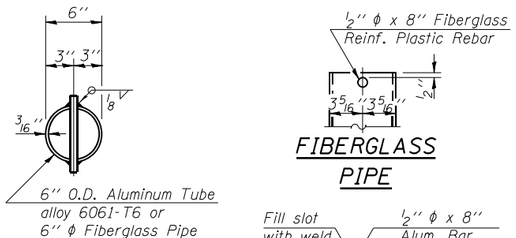
**Dimension as required by Pipe Clamp



TOP PLAN

SECTION THRU SIDEWALK ON EXISTING DECK

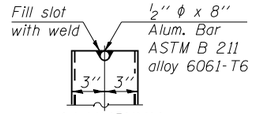
(South of Sta. 266+50.00)



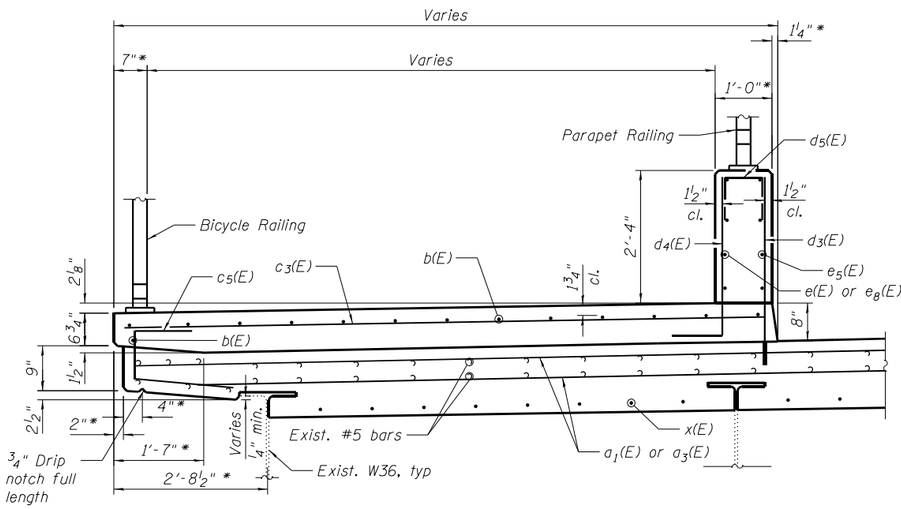
TOP PLAN

(Showing Aluminum Tube)

FIBERGLASS PIPE



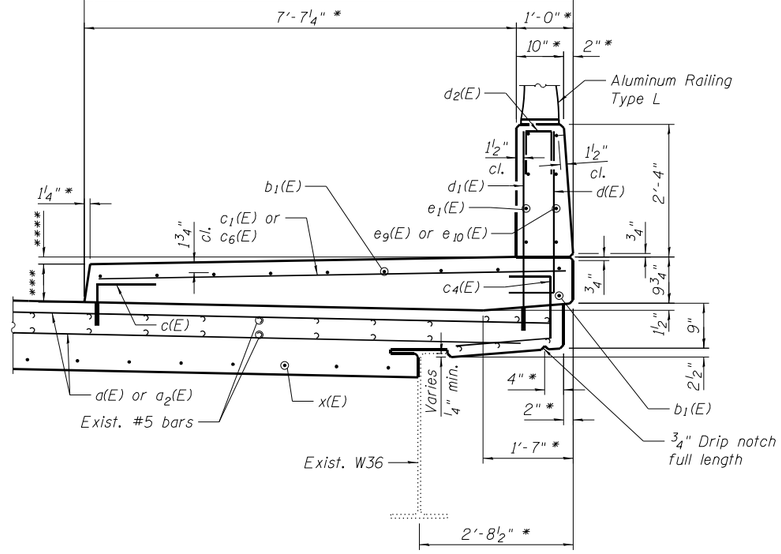
ALUMINUM TUBE



SECTION THRU SHARED USE PATH AT ENDS OF DECK

*** 8" at south end of deck
Varies at north end of deck
See Sidewalk Cross Slope Transitions on Sheet 2.

* Radial Dimension



SECTION THRU SIDEWALK AT ENDS OF DECK

(Shown for South End of Deck)

**** 1 1/2" at south end of deck
Varies at north end of deck
See Sidewalk Cross Slope Transitions on Sheet 2.

Notes:

For Deck Plan see Sheet 6.
For Parapet Reinforcement see Sheet 8.
For Deck Section and Details see Sheet 7.
For Section thru Sidewalk on Existing Deck North of Sta. 266+50.00 see Sheet 10.
For Bill of Material and Bar Bending Details see Sheet 10.
For details of Bicycle Railing and Parapet Railing see Sheet 16.
For details of Aluminum Railing Type L see Sheet 17.
Cut hole in deck slab to install drains. Remove and replace any poor quality concrete in the area of the drain. Cost included with Floor Drains.
Drains shall be located clear of all diaphragms.
The exterior surfaces of the floor drains shall be painted according to Article 506 with the finish coat as specified. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coating's Spec. SSPC-SP1 prior to painting.
Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
Galvanize clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.
Drill and set c(E), c_2(E), d_1(E) and d_3(E) bars according to Article 509.06 of the Standard Specifications. Drilled hole shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6".
Contractor shall take all necessary precautions to prevent drilled hole interference with the deck reinforcement bars. At the ends of the deck locate the transverse bars in the deck to miss the drilled hole locations and locate the drilled holes to miss the existing longitudinal and transverse bars in the deck.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 016-0301
SHEET NO 9 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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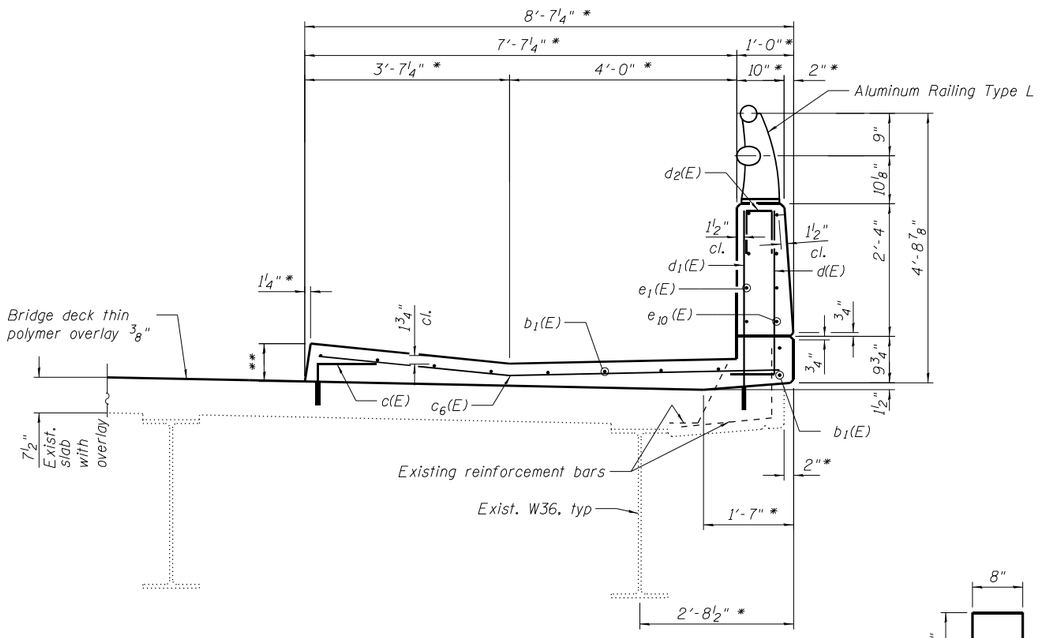
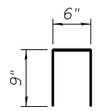
		CONTRACT NO. 62P45		
		ILLINOIS FED. AID PROJECT		



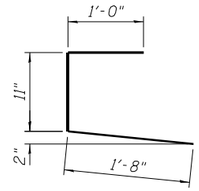
SECTION THRU SIDEWALK ON EXISTING DECK

(North of Sta. 266+50.00)

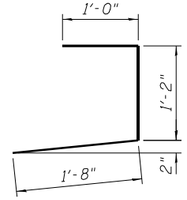
BAR $d_5(E)$



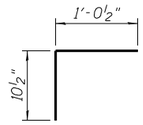
BAR $d_2(E)$



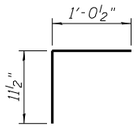
BAR $c_5(E)$



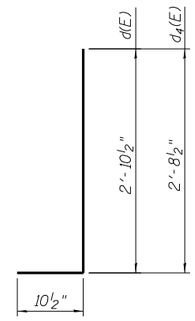
BAR $c_4(E)$



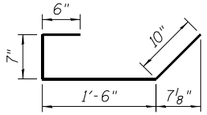
BAR $c_2(E)$



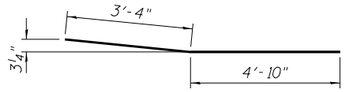
BAR c(E)



BAR $d(E)$, $d_4(E)$



BAR x(E)



BAR $c_6(E)$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	8	#6	40'-3"	
d_1(E)	8	#6	27'-3"	
d_2(E)	8	#6	40'-3"	
d_3(E)	8	#6	27'-3"	
b(E)	104	#5	31'-10"	
b_1(E)	80	#5	31'-9"	
c(E)	237	#5	2'-0"	
c_1(E)	224	#5	8'-2"	
c_2(E)	238	#5	1'-11"	
c_3(E)	238	#5	11'-3"	
c_4(E)	8	#5	3'-10"	
c_5(E)	8	#5	3'-7"	
c_6(E)	13	#5	8'-2"	
d(E)	237	#5	3'-9"	
d_1(E)	237	#6	3'-7"	
d_2(E)	48	#4	2'-0"	
d_3(E)	238	#6	3'-4"	
d_4(E)	238	#5	3'-7"	
d_5(E)	50	#4	2'-2"	
e(E)	4	#4	16'-3"	
e_1(E)	40	#4	16'-6"	
e_2(E)	64	#4	8'-2"	
e_3(E)	32	#4	14'-4"	
e_4(E)	32	#4	6'-8"	
e_5(E)	32	#4	16'-7"	
e_6(E)	64	#4	14'-3"	
e_7(E)	8	#4	16'-8"	
e_8(E)	4	#4	17'-1"	
e_9(E)	4	#4	16'-11"	
e_{10}(E)	4	#4	16'-1"	
x(E)	116	#5	3'-5"	
Floor Drains			Each	8
Concrete Superstructure			Cu. Yd.	182.0
Protective Coat			Sq. Yd.	772
Reinforcement Bars, Epoxy Coated			Pound	20,870
Bridge Deck Thin Polymer Overlay ⅜"			Sq. Yd.	1,108

** 8" South of Station 266+62.71
Varies North of Station 266+62.71
See Sidewalk Cross Slope Transitions on Sheet 2.

Notes:

For Section thru Sidewalk on Existing Deck South of Sta. 266+50.00 see Sheet 9.
For Sidewalk Cross Slope Transitions see Sheet 2.
For Deck Plan see Sheet 6.
For Parapet Reinforcement see Sheet 8.
For details of Aluminium Railing see Sheet 17.
Drill and set c(E) and d_1(E) bars according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6".
Contractor shall take all necessary precautions to prevent drilled hole interference with the deck reinforcement bars.

* Radial Dimension

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DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS AND BILL OF MATERIAL
STRUCTURE NO. 016-0301
SHEET NO 10 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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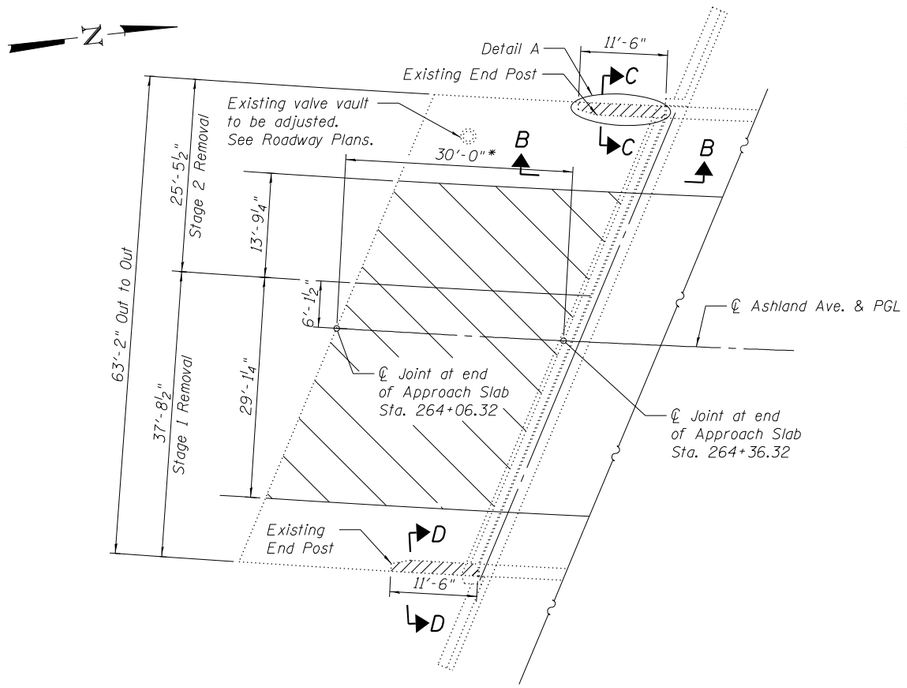
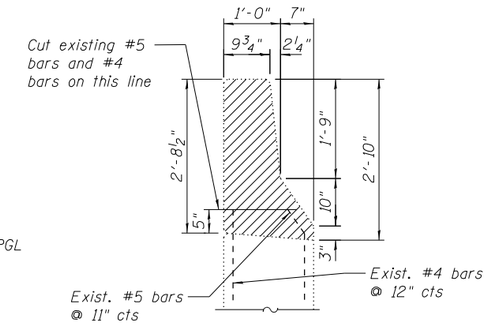
		CONTRACT NO. 62P45		
		ILLINOIS	FED. AID PROJECT	

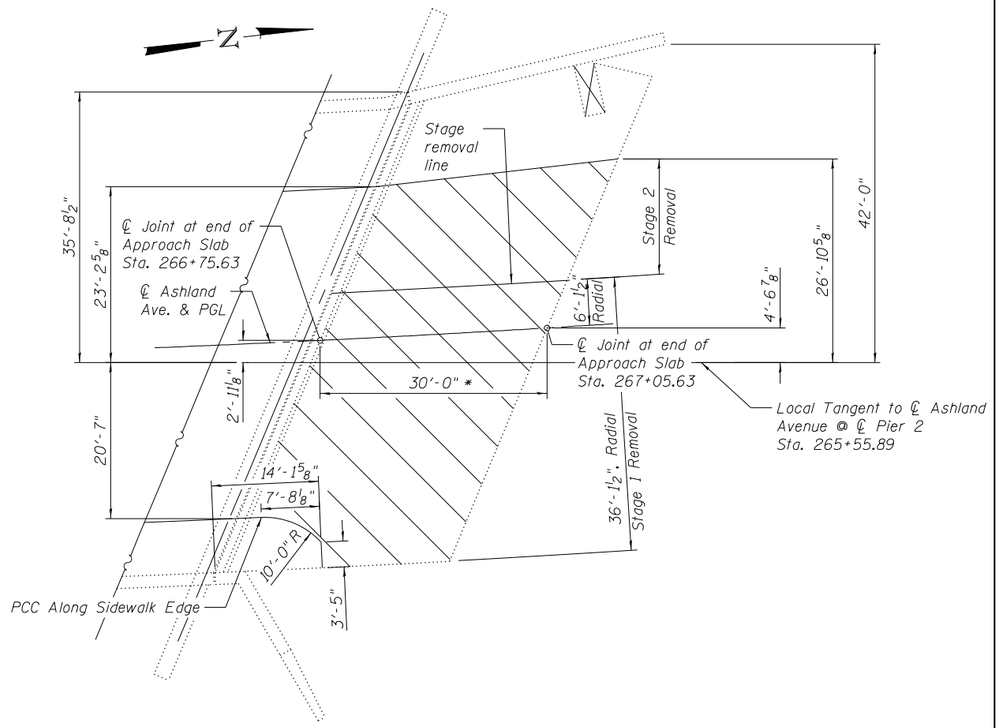


SOUTH BRIDGE APPROACH SLAB PLAN

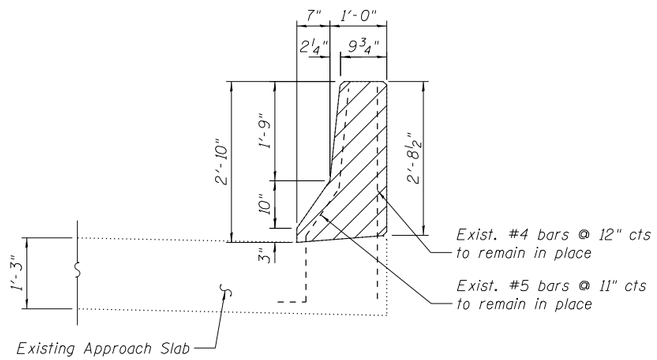
(All transverse dimensions are radial dimension normal to the ℄ Ashland Avenue)



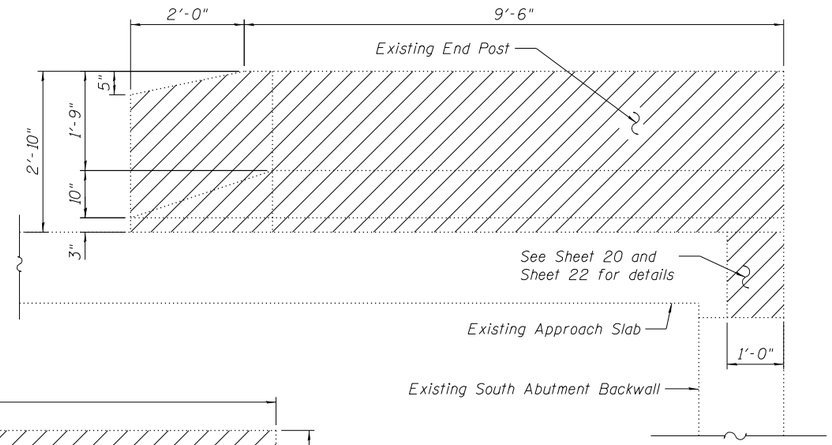
SECTION C-C



NORTH BRIDGE APPROACH SLAB PLAN



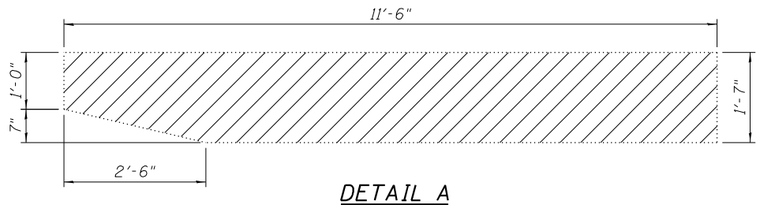
SECTION D-D



SECTION B-B

(Shown for West End Post)

(Similar for East End Post)



DETAIL A

(Shown for West End Post)

(Similar for East End Post)

LEGEND

Concrete Removal

Slab Scarification ⅜"

Notes:

Existing reinforcement bars that project from the approach slab after concrete removal are to remain in place. The existing reinforcement bars shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars damaged during concrete removal shall be replaced with approved bar splicer or anchorage system. Cost included with "Concrete Removal".

* Measured along ℄ Ashland Avenue

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	2.6
Concrete Bridge Deck Scarification ⅜ Inch	Sq. Yd.	467

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH AND NORTH BRIDGE APPROACH SLAB CONCRETE REMOVAL
STRUCTURE NO. 016-0301
SHEET NO 11 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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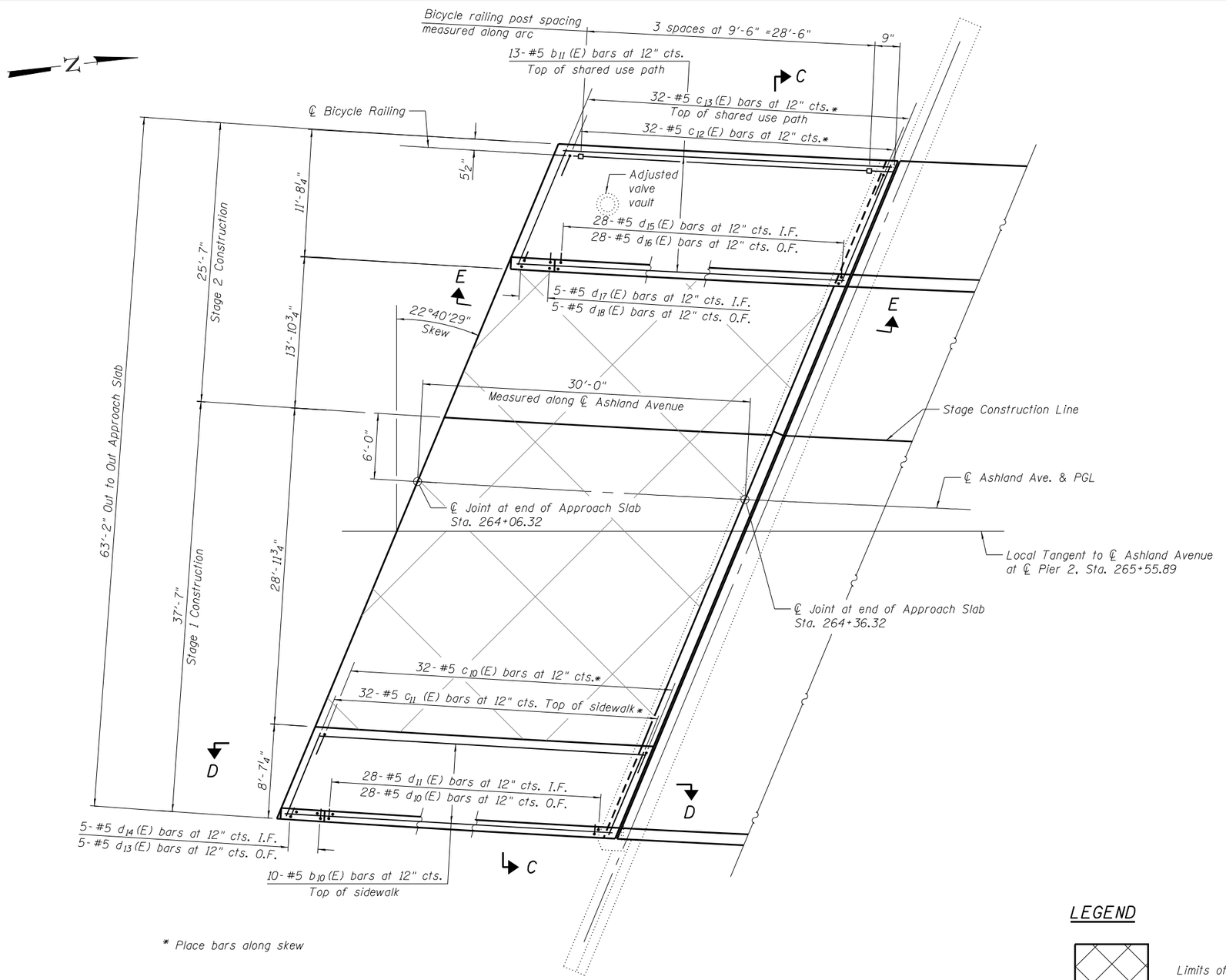
		CONTRACT NO. 62P45		
	ILLINOIS FED. AID PROJECT			



* Place bars along skew

PLAN

(All transverse dimensions are radial dimension normal to the ℄ Ashland Avenue)

Notes:

For Sections C-C, D-D and E-E, Bill of Material and Bar Bending Details see Sheet 13.

For Bicycle Railing details see Sheet 16.

LEGEND

Limits of Bridge Deck Thin Polymer Overlay $\frac{3}{8}$"

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PLOT DATE = 12/3/2021	CHECKED - SPK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH BRIDGE APPROACH SLAB ALTERATIONS
STRUCTURE NO. 016-0301
SHEET NO 12 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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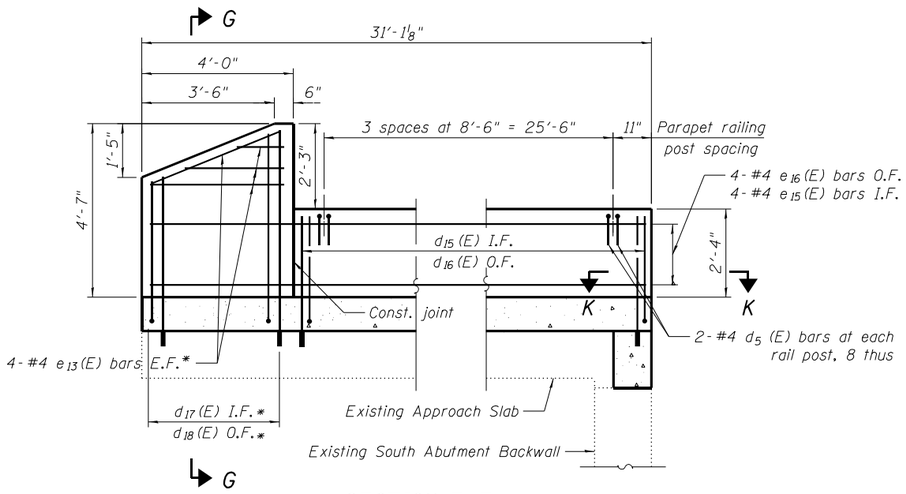
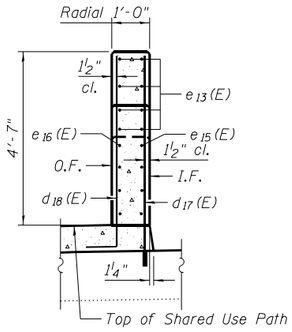
		CONTRACT NO. 62P45		
	ILLINOIS FED. AID PROJECT			

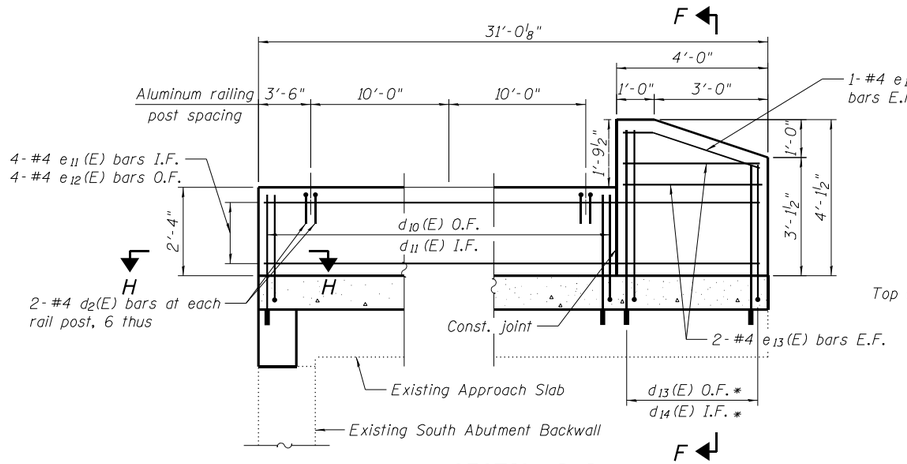


SECTION E-E

(All the longitudinal dimensions are along the roadway face of the barrier)

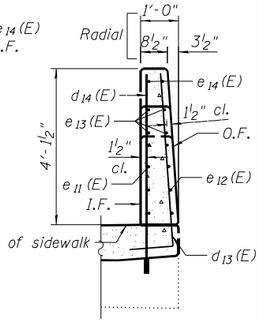


SECTION G-G

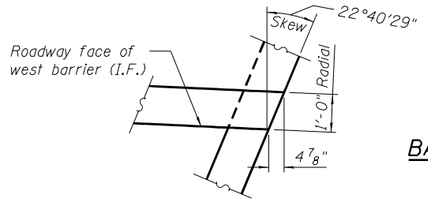


SECTION D-D

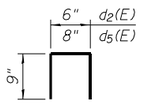
(All the longitudinal dimensions are along the roadway face of the barrier)



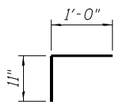
SECTION F-F



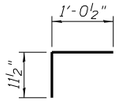
SECTION K-K



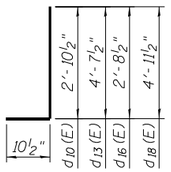
BARS $d_2(E)$ & $d_5(E)$



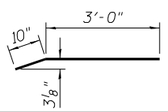
BAR $c_{12}(E)$



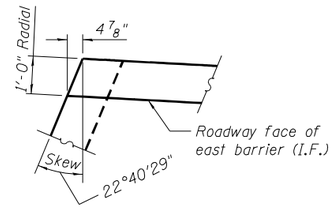
BAR $c_{10}(E)$



BARS $d_{10}(E)$, $d_{13}(E)$, $d_{16}(E)$ and $d_{18}(E)$



BAR $e_{14}(E)$



SECTION H-H

Notes:

Drill and set $c_{10}(E)$, $c_{12}(E)$, $d_{11}(E)$, $d_{14}(E)$, $d_{15}(E)$ and $d_{17}(E)$ bars according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6".

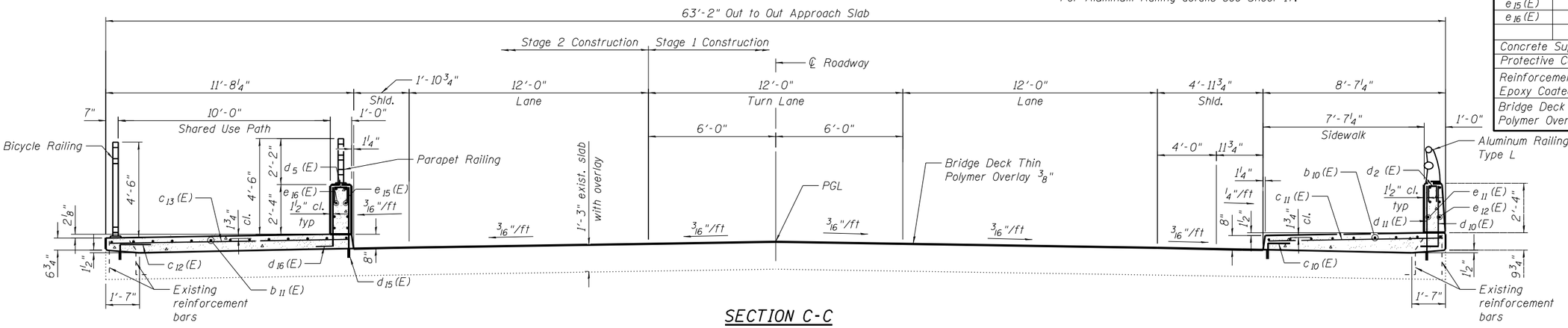
For Parapet Railing details see Sheet 16.

For Aluminum Railing details see Sheet 17.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$b_{10}(E)$	10	#5	30'-8"	
$b_{11}(E)$	13	#5	30'-9"	
$c_{10}(E)$	32	#5	2'-0"	
$c_{11}(E)$	32	#5	8'-11"	
$c_{12}(E)$	32	#5	1'-11"	
$c_{13}(E)$	32	#5	12'-3"	
$d_2(E)$	6	#4	2'-0"	
$d_5(E)$	8	#4	2'-2"	
$d_{10}(E)$	28	#5	3'-9"	
$d_{11}(E)$	28	#5	3'-7"	
$d_{13}(E)$	5	#5	5'-6"	
$d_{14}(E)$	5	#5	5'-4"	
$d_{15}(E)$	28	#5	3'-4"	
$d_{16}(E)$	28	#5	3'-7"	
$d_{17}(E)$	5	#5	5'-7"	
$d_{18}(E)$	5	#5	5'-10"	
$e_{11}(E)$	4	#4	30'-8"	
$e_{12}(E)$	4	#4	30'-4"	
$e_{13}(E)$	12	#4	3'-8"	
$e_{14}(E)$	2	#4	3'-10"	
$e_{15}(E)$	4	#4	30'-9"	
$e_{16}(E)$	4	#4	31'-2"	

Concrete Superstructure	Cu. Yd.	22.3
Protective Coat	Sq. Yd.	97
Reinforcement Bars, Epoxy Coated	Pound	2,490
Bridge Deck Thin Polymer Overlay 3/8"	Sq. Yd.	305



SECTION C-C

(All the transverse dimensions are radial)

* Cut bars in the field to fit

E.F. = Each Face
I.F. = Inside Face
O.F. = Outside Face
U.N. = Unless Noted

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DEPARTMENT OF TRANSPORTATION

SOUTH BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 016-0301

SHEET NO 13 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	367
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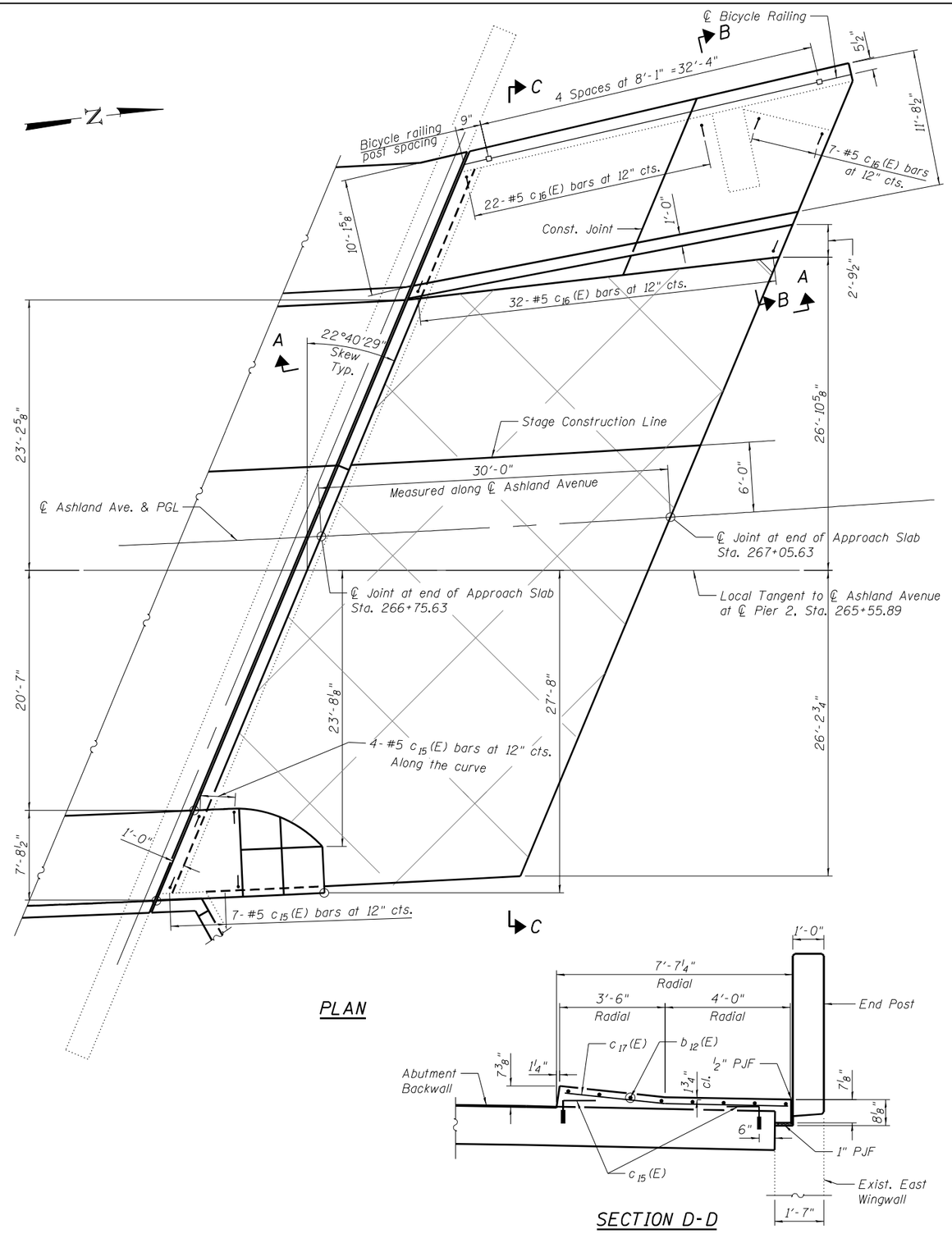
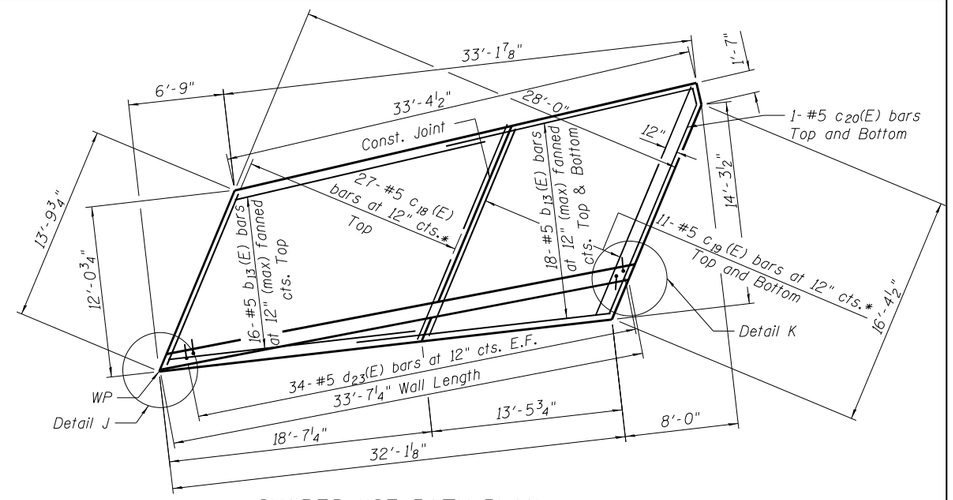
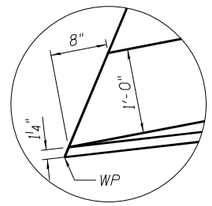
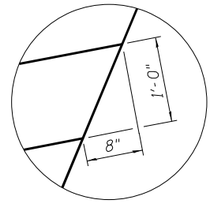




SHARED USE PATH PLAN



DETAIL J



DETAIL K

Notes:

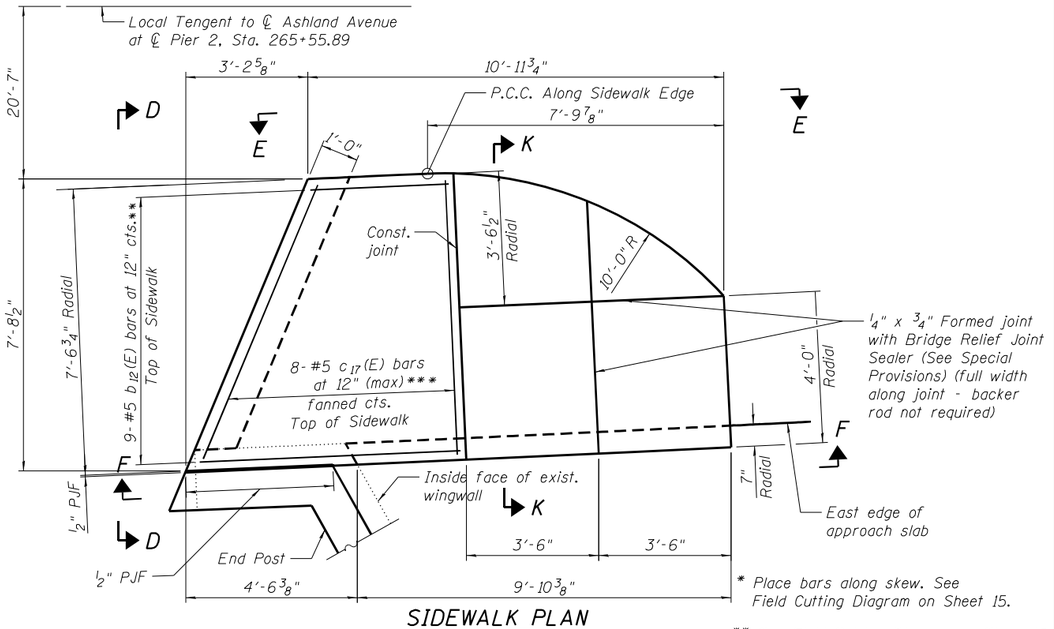
For Sections A-A, B-B, C-C, E-E, F-F, K-K, Bill of Material and Bar Bending Details, see Sheet 15.

For bicycle railing details, see Sheet 16.

For East End Post, see Sheet 23.

LEGEND

Limits of Bridge Deck Thin Polymer Overlay ⅜"



SIDEWALK PLAN

Note: Scarify approach slab 2" under the sidewalk. Cost included with Concrete Superstructure.

* Place bars along skew. See Field Cutting Diagram on Sheet 15.

** See Field Cutting Diagram on Sheet 15.

*** Cut in field to fit

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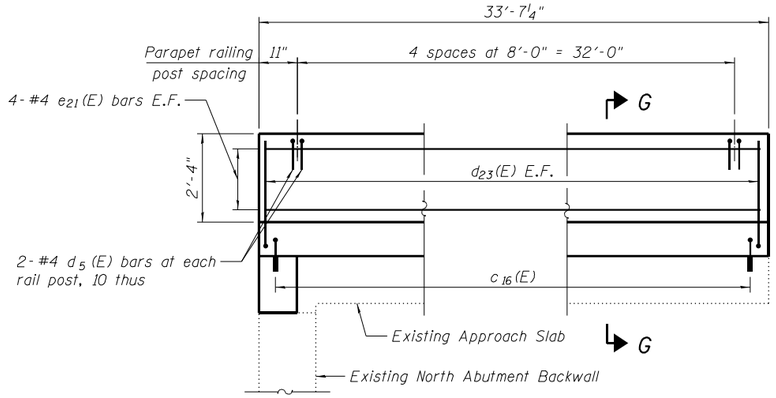
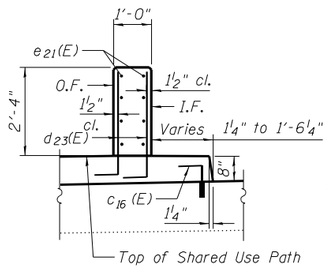
NORTH BRIDGE APPROACH SLAB ALTERATIONS
STRUCTURE NO. 016-0301
SHEET NO 14 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	368
		CONTRACT NO. 62P45		
	ILLINOIS FED. AID PROJECT			

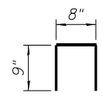


SECTION A-A

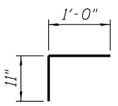
(All the longitudinal dimensions are along the roadway face of the barrier)



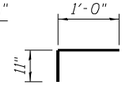
SECTION G-G



BARS d_5(E)



BAR c_{16}(E)



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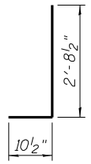
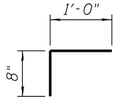
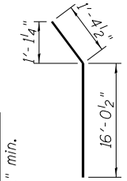


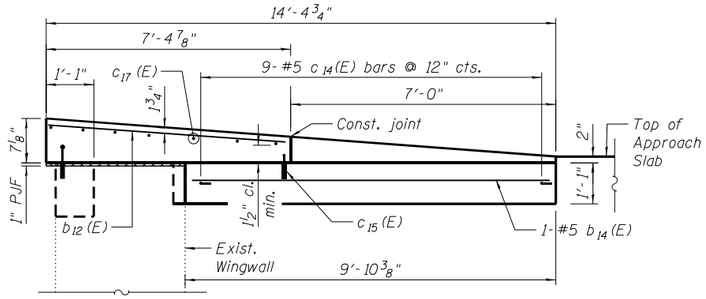
BARS d_{23}(E)



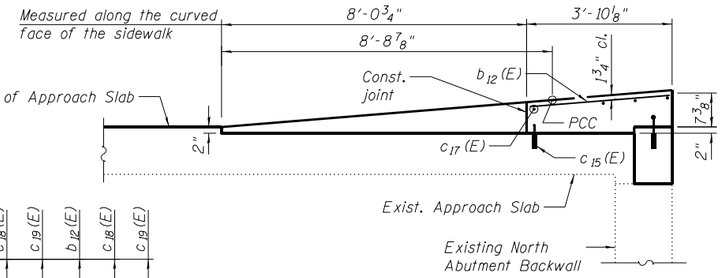
BAR c_{15}(E)



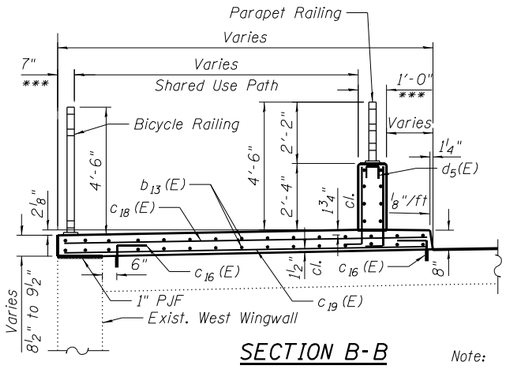
BAR c_{20}(E)



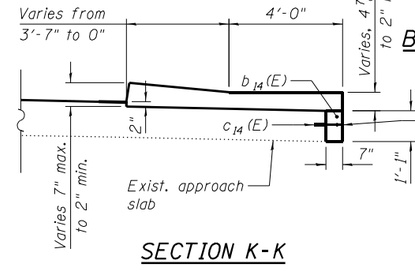
SECTION F-F



SECTION E-E



SECTION B-B



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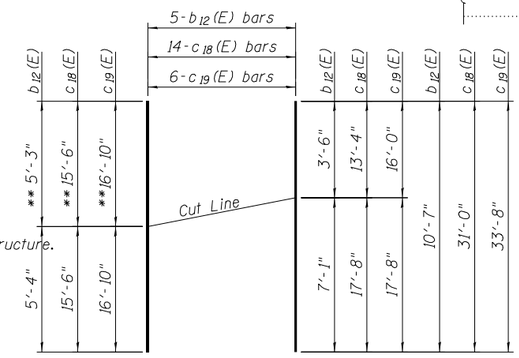


FIELD CUTTING DIAGRAM

Order bars full length. Cut to fit as shown and place at one end of the dimensions line shown on the plan. Use remainder of bars at opposite end of dimension line.

** Indicates bar length to be discarded when an odd number of bars are required.

Note A: Varies from 12'-0" at Sta. 265+25.69 to 0" at Sta. 267+39.78

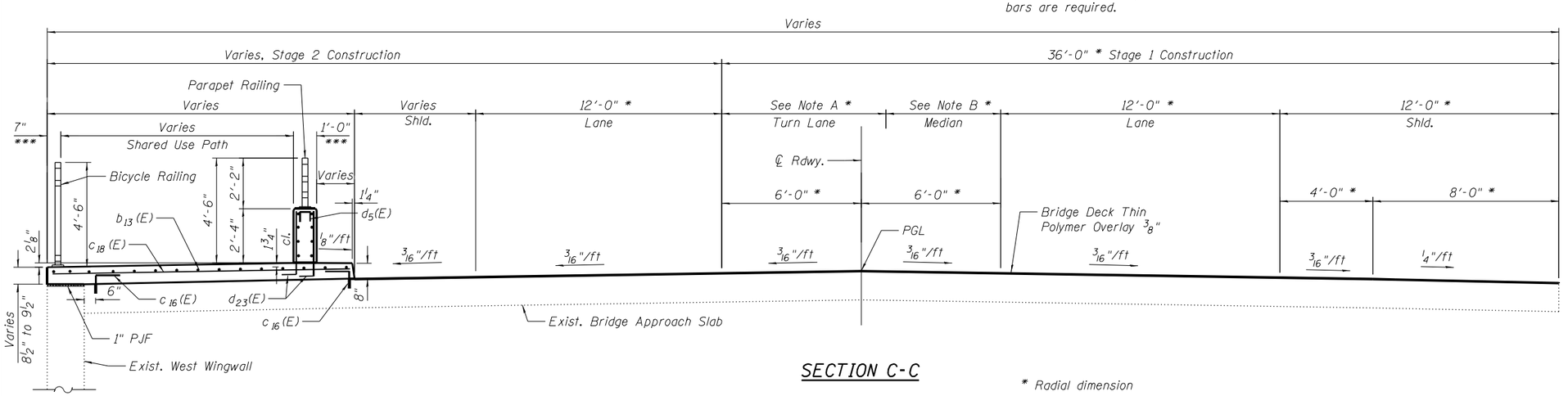
Note B: Varies from 0" at Sta. 265+25.69 to 12'-0" at Sta. 267+39.78

Note:

Drill and set c_{14}(E), c_{15}(E), and c_{16}(E) bars according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6".

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b_{12}(E)	5	#5	10'-7"	—
b_{13}(E)	52	#5	18'-0"	—
b_{14}(E)	1	#5	9'-7"	—
c_{14}(E)	11	#5	1'-11"	⌐
c_{15}(E)	11	#5	1'-8"	⌐
c_{16}(E)	61	#5	1'-11"	⌐
c_{17}(E)	8	#5	7'-10"	—
c_{18}(E)	14	#5	31-0"	—
c_{19}(E)	6	#5	33'-8"	—
c_{20}(E)	2	#5	17'-5"	⌒
d_5(E)	10	#4	2'-2''	⊓
d_{23}(E)	34	#5	3'-7''	L
e_{21}(E)	8	#4	33'-4''	—
Concrete Superstructure		Cu. Yd.		16.8
Protective Coat		Sq. Yd.		59
Reinforcement Bars, Epoxy Coated		Pound		2,290
Bridge Deck Thin Polymer Overlay 3/8"		Sq. Yd.		162



SECTION C-C

* Radial dimension

*** At right angle

I.F. = Inside Face
O.F. = Outside Face
U.N. = Unless Noted

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12/3/2021

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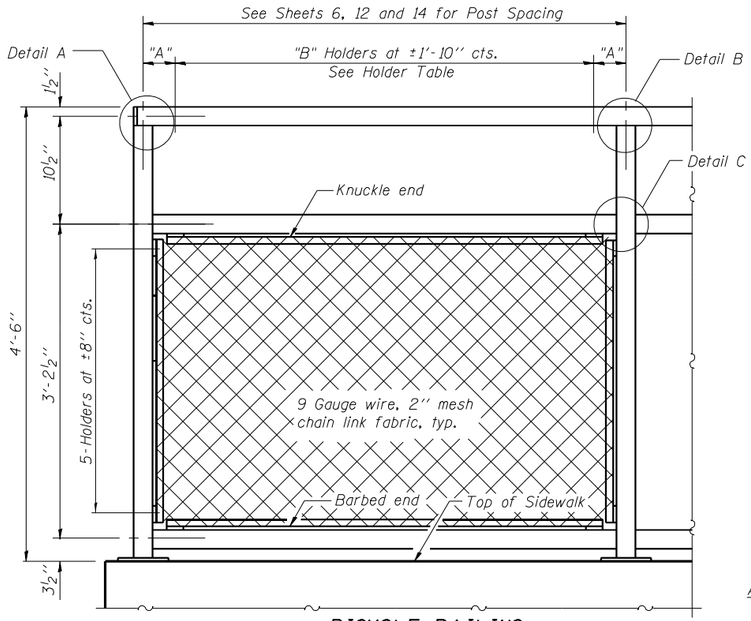
1 South Wacker | Suite 2650 | Chicago, IL 60606
P 312.425.9560 | F 312.425.9569 | www.infrastructure-eng.com

USER NAME = APatterson	DESIGNED - PK	REVISED -	
	CHECKED - SPK	REVISED -	
PLOT SCALE = 0.1667 ' / in.	DRAWN - PK	REVISED -	
PLOT DATE = 12/3/2021	CHECKED - SPK	REVISED -	

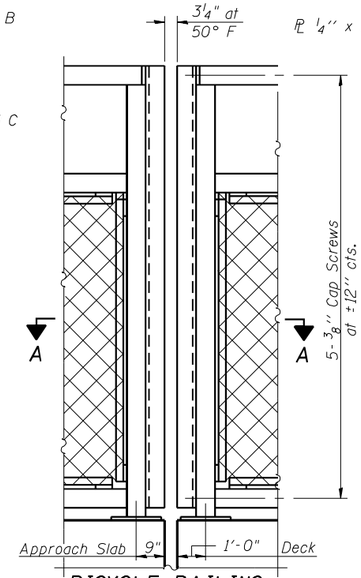
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 016-0301
SHEET NO 15 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	369
		CONTRACT NO. 62P45		
	ILLINOIS FED. AID PROJECT			



BICYCLE RAILING



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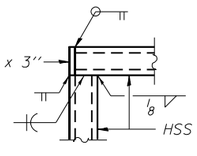
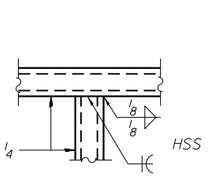
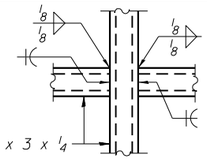


DETAIL A



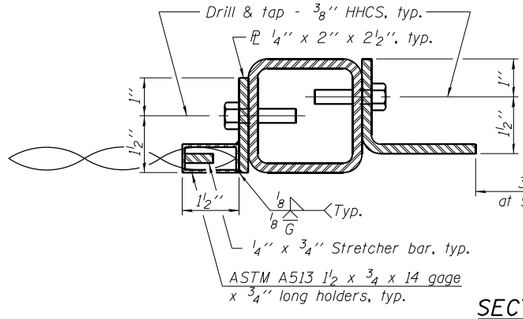
DETAIL B

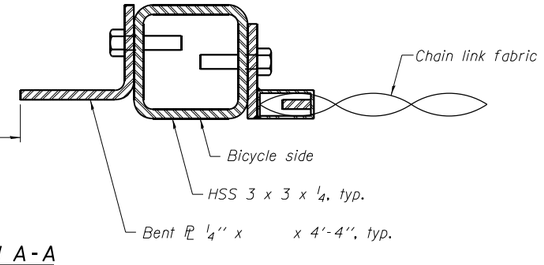


DETAIL C

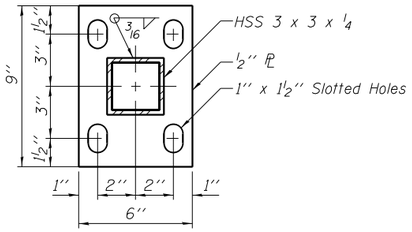
HOLDER TABLE

Post Spacing	"A"	"B"
10'-10"	5"	6
9'-10"	4"	6
9'-8"	3"	6
9'-6"	2"	6
8'-1"	4½"	5

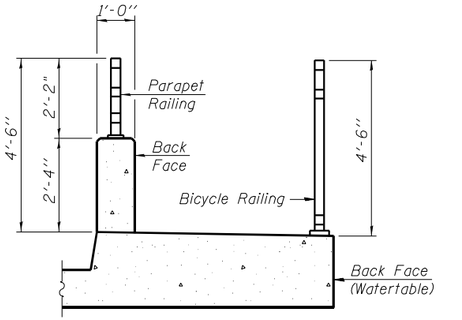




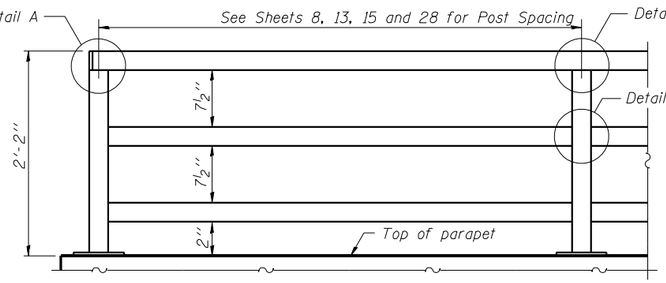
SECTION A-B



BASE PL

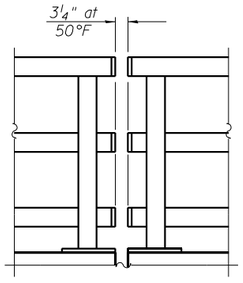


SECTION THRU SIDEWALK

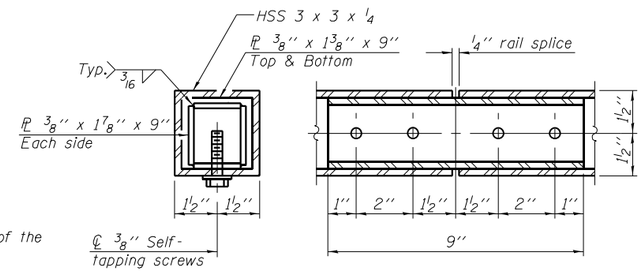


PARAPET RAILING ELEVATION

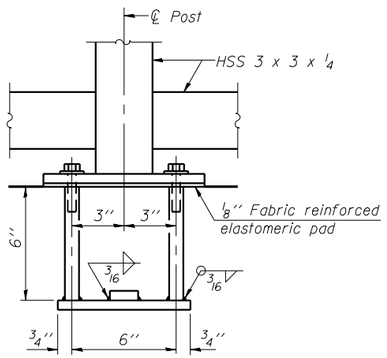
(Inside Face of Three Element Rail)

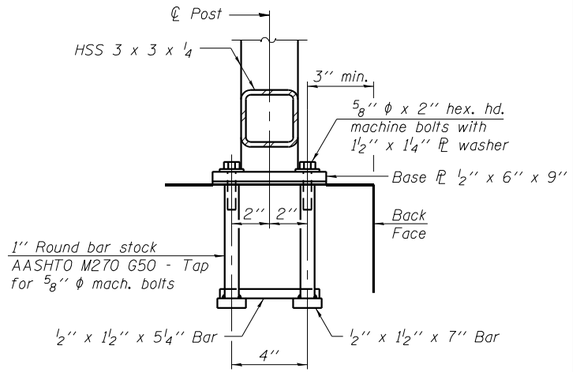


PARAPET RAILING ELEVATION AT EXPANSION JOINT



RAIL SPLICE





ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	303
Parapet Railing	Foot	327

Notes:

All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications.

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

Provide the railing on the bridge and the south bridge approach slab in segments that approximate the curvature of the roadway to Sta. 266+85.79. Railing is to be straight north of Sta. 266+85.79.

(10'-0" Maximum Post Spacing)

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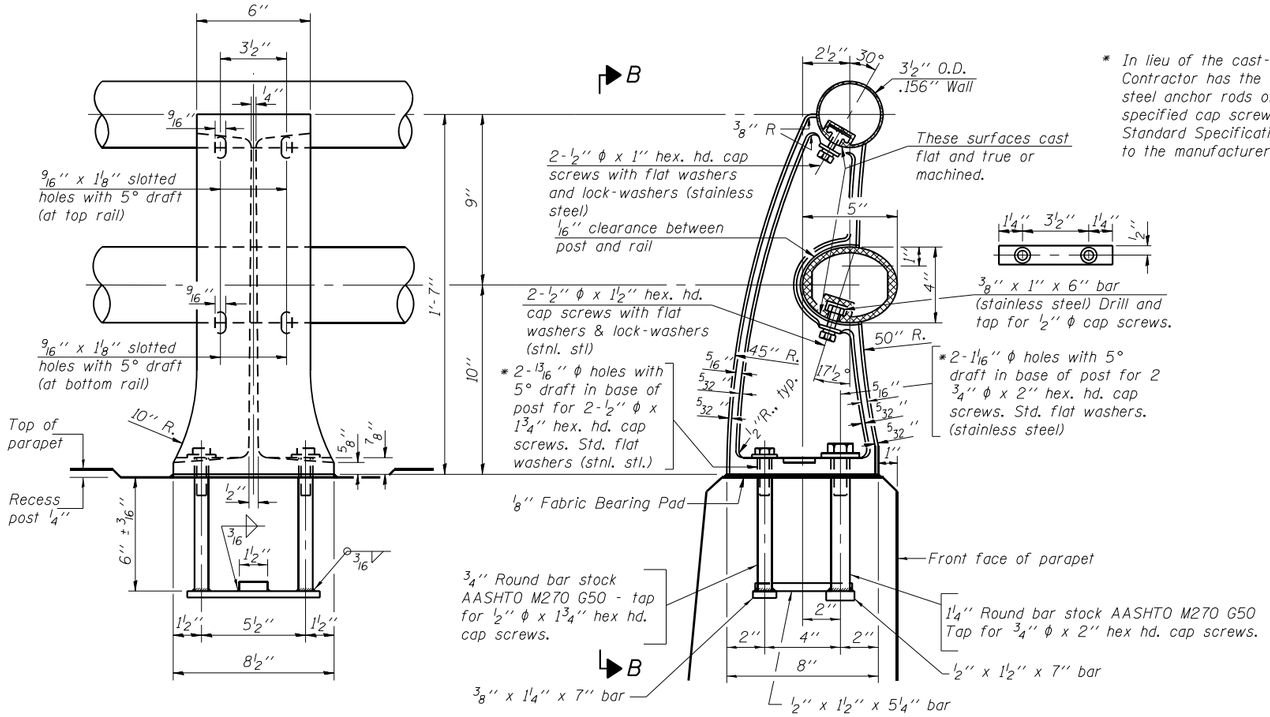
USER NAME = APatterson	DESIGNED - PK	REVISED -
	CHECKED - SPK	REVISED -
PLOT SCALE = 0.1667 ' / in.	DRAWN - PK	REVISED -
PLOT DATE = 12/3/2021	CHECKED - SPK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BICYCLE RAILING
STRUCTURE NO. 016-0301
SHEET NO 16 OF 29 SHEETS

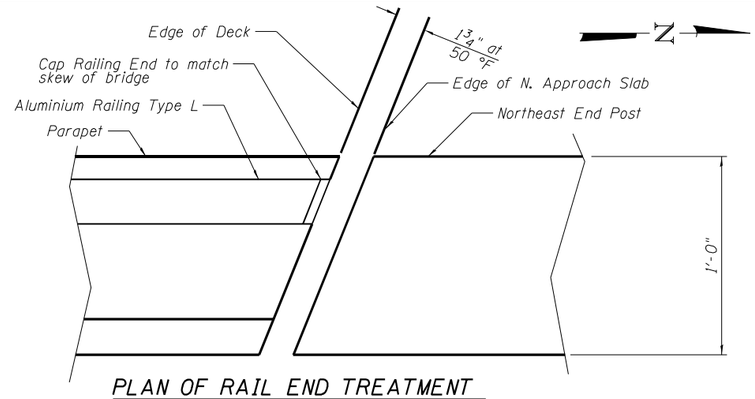
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	370
		CONTRACT NO. 62P45		
	ILLINOIS FED. AID PROJECT			



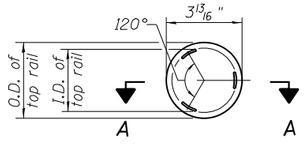
* In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

VIEW B-B

SECTION A-A

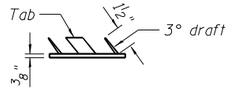


PLAN OF RAIL END TREATMENT AT NORTHEAST END POST

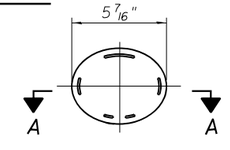


CAST END CAP AT NORTHEAST END POST

For top rail



SECTION A-A

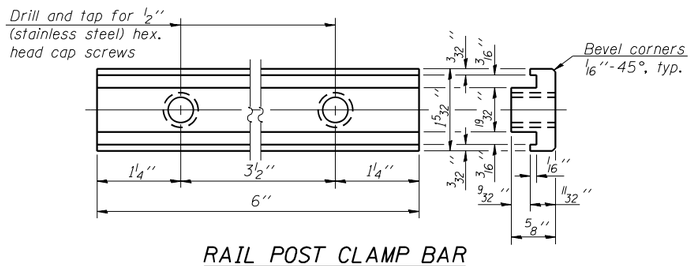


CAST END CAP AT NORTHEAST END POST

For bottom rail

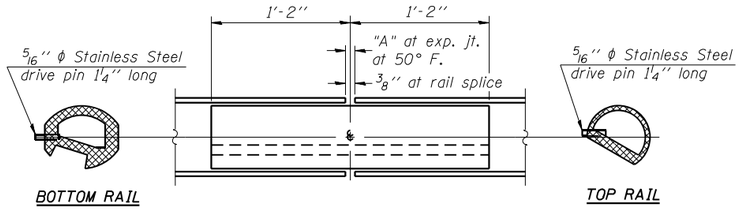
Note: Skew tabs inside the cap to match the skew of the rail.

RAIL POST DETAILS



RAIL POST CLAMP BAR

For Top Rail

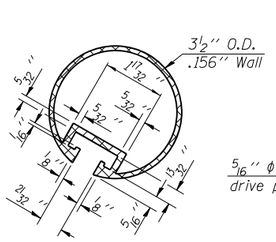


RAIL SPLICE

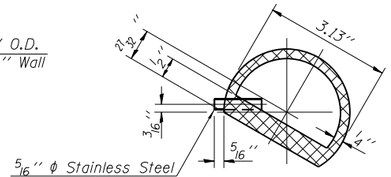
T	"A"
≤ 4''	2 1/2''
> 4'' ≤ 6 1/2''	3 3/4''
> 6 1/2'' ≤ 9''	5''
> 9'' ≤ 13''	7''

T = Total movement at expansion joint as shown on the design plans.

(7'-0'' to 10'-0'' Post spacing)

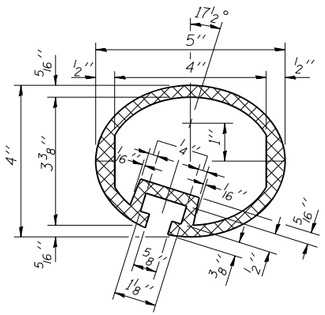


SECTION THRU TOP RAIL

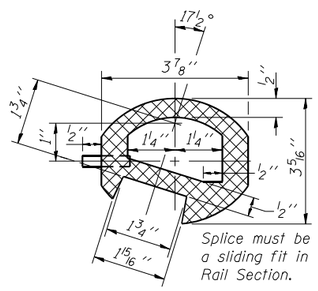


SECTION THRU SPLICE

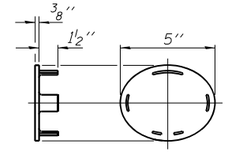
For Top Rail



SEC. THRU ELLIPTICAL RAIL SECTION



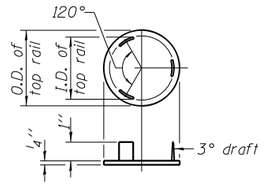
SEC. THRU SPLICE



CAST END CAP (TYP. UNLESS NOTED)

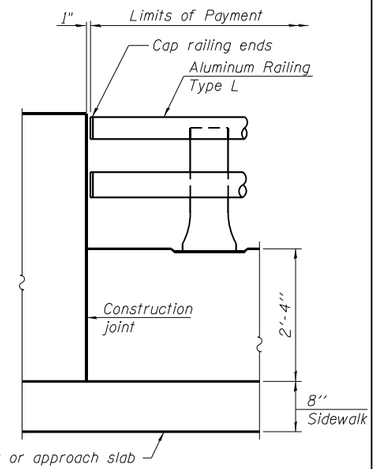
For bottom rail

DRIVE FIT TYPE



CAST END CAP (TYP. UNLESS NOTED)

For top rail



RAIL END TREATMENT FOR TYPE 5 AND 6 TERMINAL

Notes:

All Posts shall be normal to parapet.

All joints in rail shall be spliced per detail.

All exposed rail ends shall be capped per detail.

Provide 1-1/8'' and 2-1/16'' Aluminum Shims for 25% of the Posts. Rail elements shall be parallel to Grade-high spots will be ground and low spots shimmed.

Rail elements to be curved horizontally to match parapet curvature.

See sheets 8 and 13 for rail post spacing.

BILL OF MATERIAL

Item	Unit	Quantity
Aluminum Railing, Type L	Foot	264

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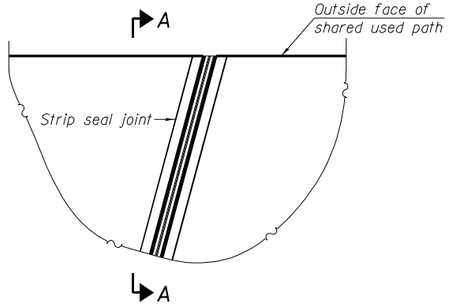
PLOT DATE = 12/3/2021	CHECKED - SPK	REVISED -	

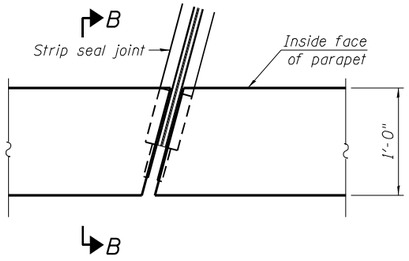
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALUMINUM RAILING, TYPE L
STRUCTURE NO. 016-0301
SHEET NO 17 OF 29 SHEETS

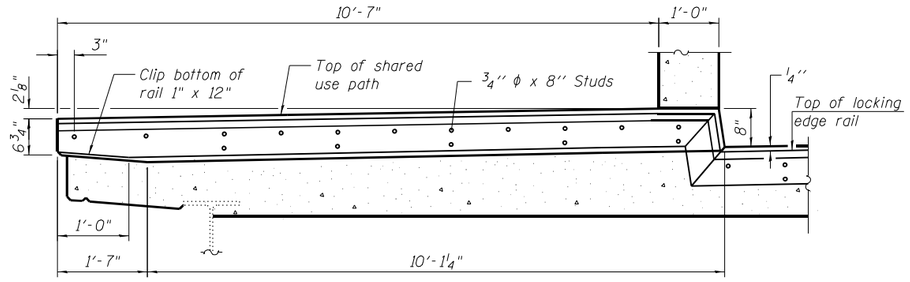
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	371
		CONTRACT NO. 62P45		
		ILLINOIS FED. AID PROJECT		



PLAN AT WEST EDGE OF DECK

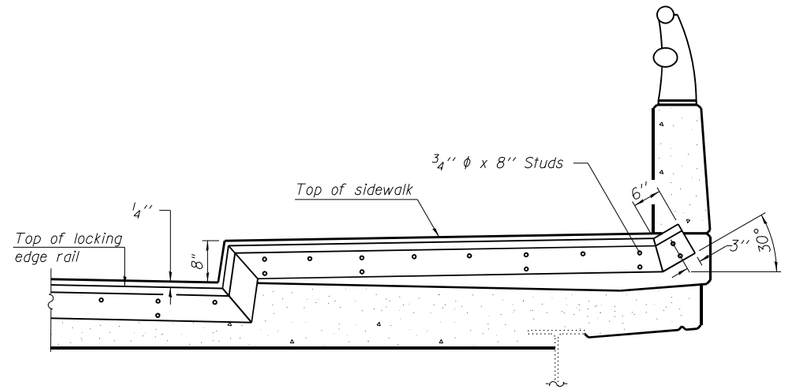


PLAN AT EAST EDGE OF DECK



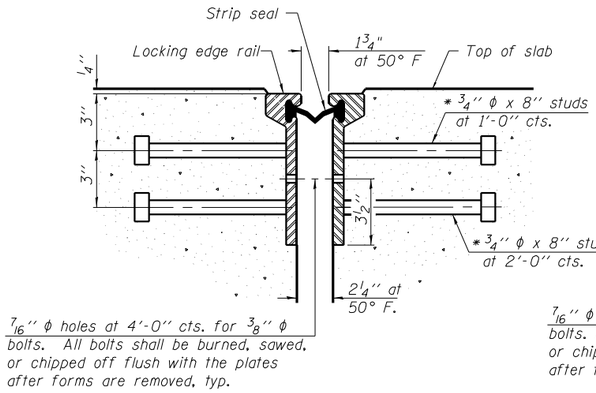
SECTION A-A
TYPICAL END TREATMENT AT SHARED USE PATH

Shorter plates with a single row of studs at 12" cts. may be necessary on raised concrete shallower than 9". See manufacturer's recommendation.

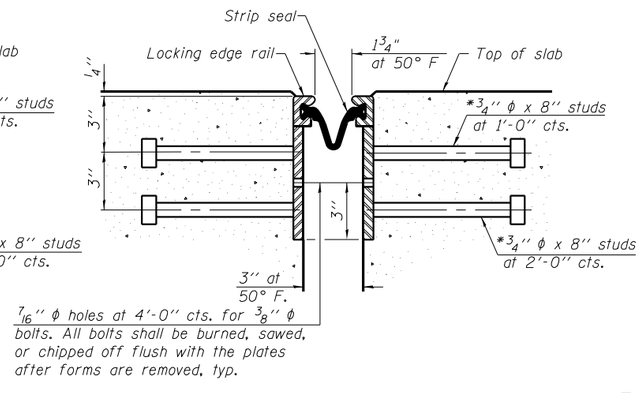


SECTION B-B
TYPICAL END TREATMENT AT SIDEWALK

Shorter plates with a single row of studs at 12" cts. may be necessary on raised concrete shallower than 9". See manufacturer's recommendation.

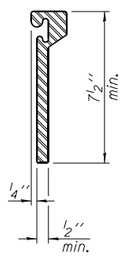


SECTION THRU
ROLLED RAIL JOINT

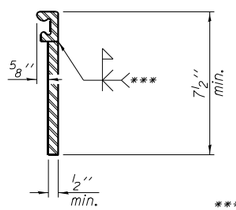


SECTION THRU
WELDED RAIL JOINT

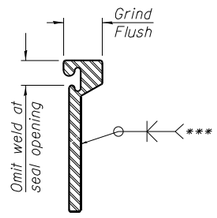
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



ROLLED
EXTRUDED RAIL



WELDED RAIL



**** Back gouge not required if complete joint penetration is verified by mock-up.*

LOCKING EDGE
RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

Rolled rail shown, welded rail similar.

LOCKING EDGE RAILS

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	141

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DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 016-0301
SHEET NO 18 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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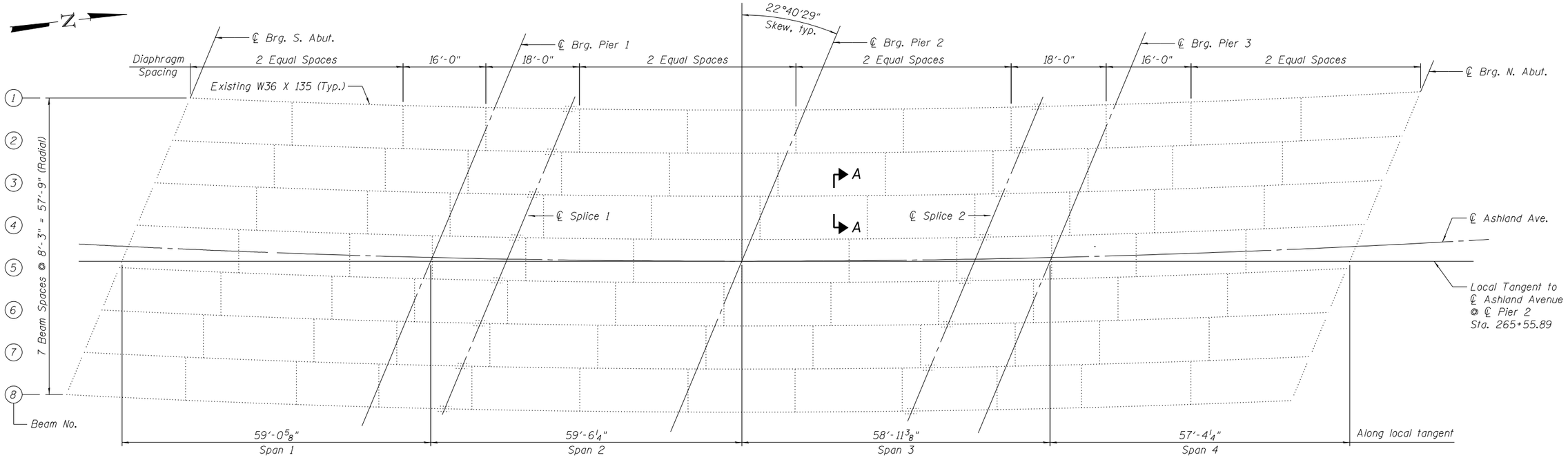
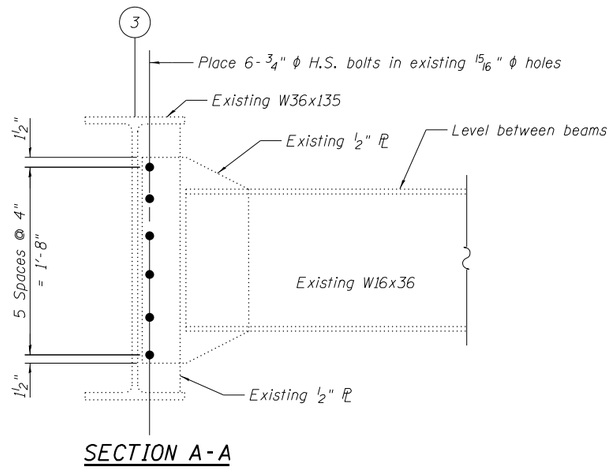
		CONTRACT NO. 62P45		
	ILLINOIS FED. AID PROJECT			



EXISTING FRAMING PLAN



SECTION A-A

Note:
Two hardened washers required for each oversized hole.
Cost of any field drilling to align holes included in Structural Steel Repair.
Existing bolts are missing in the connection. Work only includes installing new bolts in existing holes.

BILL OF MATERIAL

Item	Unit	Quantity
Structural Steel Repair	Pound	10

INTERIOR GIRDER 7 MOMENT TABLE

		0.5 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.5 Sp. 3	Pier 3	0.5 Sp. 4
I_s	(in^4)	7,800	7,800	7,800	7,800	7,800	7,800	7,800
$I_c(n)$	(in^4)	20,019	-	20,019	-	20,019	-	20,019
$I_c(3n)$	(in^4)	14,756	-	14,756	-	14,756	-	14,756
S_s	(in^3)	439	439	439	439	439	439	439
$S_c(n)$	(in^3)	635	-	635	-	635	-	635
$S_c(3n)$	(in^3)	574	-	574	-	574	-	574
S_1	(in^3)	18.8	18.8	18.8	18.8	18.8	18.8	18.8
ℓ	(k/')	0.94	1.59	0.94	1.59	0.94	1.59	0.94
$M\ell$	('k)	228	548	121	399	122	548	227
$s\ell$	(k/')	0.65	-	0.65	-	0.65	-	0.65
$M_s\ell$	('k)	177	-	109	-	109	-	176
M_L	('k)	490	271	432	263	434	271	492
M_I	('k)	122	54	108	53	108	54	123
$\frac{5}{3}[M_L + M_I]$	('k)	1,020	542	900	527	903	542	1,025
M_a	('k)	1,853	1,417	1,469	1,204	1,474	1,417	1,856
M_{bl}	('k)	4.7	0	4.1	0	4.0	0	4.2
$f_s\ell$ (non-comp)	(ksi)	6.2	15.0	3.3	10.9	3.3	15.0	6.2
$f_s\ell$ (comp)	(ksi)	3.7	-	2.3	-	2.3	-	3.7
$f_s \frac{5}{3}[M_L + M_I]$	(ksi)	19.3	14.8	17.0	14.4	17.1	14.8	19.4
f_l	(ksi)	3.5	0	2.9	0	2.8	0	3.1
f_s (Overload)	(ksi)	29.2	29.8	22.6	25.3	22.7	29.8	29.3
f_s (Total)	(ksi)	38.0	38.7	29.4	32.9	29.5	38.7	38.1
F_{cr} (Overload)	(ksi)	47.5	40.0	34.2	28.8	34.2	40.0	47.5
VR	(k)	70.9	-	76.9	-	77.4	-	74.9
F_{cr}	(ksi)	48.8	47.5	35.0	34.2	35.0	48.2	48.9

INTERIOR GIRDER REACTION TABLE

		S. Abut.	Pier 1	Pier 2	Pier 3	N. Abut.
$R\ell$	(k)	38.3	106.8	90.2	106.6	38.3
R_L	(k)	49.7	62.9	62.0	62.6	51.3
R_I	(k)	14.9	15.7	15.5	15.7	15.3
R_{Total}	(k)	102.9	185.4	167.7	184.9	104.9

I_s, S_s: Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total and Overload) due to non-composite dead loads (in^4 and in^3).

$I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total and Overload) due to short-term composite live loads (in^4 and in^3).

$I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total and Overload) due to long-term composite (superimposed) dead loads (in^4 and in^3).

S_1: Section modulus of one flange plate for lateral flange bending (in^3).

ℓ: Un-factored non-composite dead load (kips/ft.).

$M\ell$: Un-factored moment due to non-composite dead load (kip-ft).

$s\ell$: Un-factored long-term composite (superimposed) dead load (kips/ft.).

$M_s\ell$: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).

M_L: Un-factored live load moment (kip-ft.).

M_I: Un-factored moment due to impact (kip-ft).

M_a: Factored design moment (kip-ft.). $1.3\,[M\ell + M_s\ell + \frac{5}{3}(M_L + M_I)]$

M_{bl}: Factored lateral bending moment for flange plate (kip-ft.).

f_l: Factored calculated normal stress at the edge of flange due to lateral bending (ksi).

f_s (Overload): Sum of stresses as computed from the moments below (ksi). $M\ell + M_s\ell + \frac{5}{3}(M_L + M_I)$

f_s (Total): Sum of stresses as computed from the moments below (ksi). $1.3\,[M\ell + M_s\ell + \frac{5}{3}(M_L + M_I)]$

F_{cr} (Overload): Critical average flange stress at overload computed according to the 2003 AASHTO Guide Specifications for Horizontally Curved Steel Girder Highway Bridges Section 9.5 (ksi.).

F_{cr}: Critical average flange stress (smaller of F_{cr1} or F_{cr2} for partially braced flanges and F_y for continuously braced flanges) computed according to the 2003 AASHTO Guide Specifications for Horizontally Curved Steel Girder Highway Bridges (Sections 5.2, 5.3 and 5.4) (ksi).

VR: Maximum L+ impact shear range within span for stud shear connector design (kips).

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN AND DIAPHRAGM REPAIR DETAIL
STRUCTURE NO. 016-0301
SHEET NO 19 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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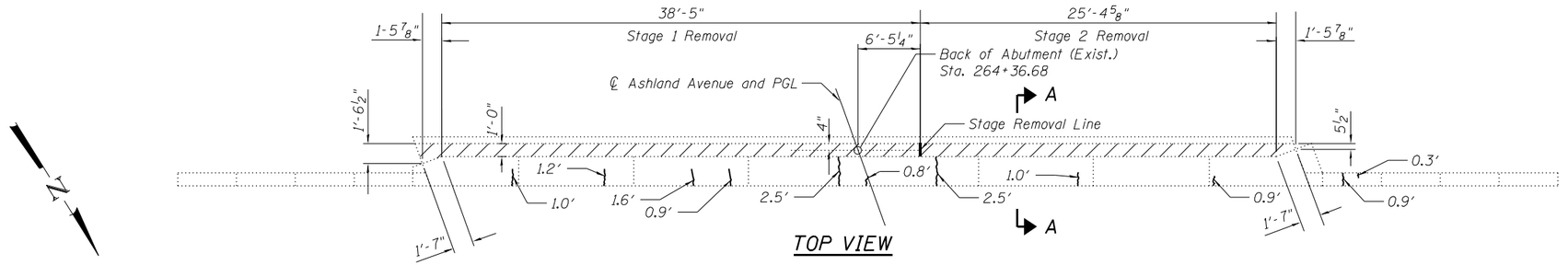
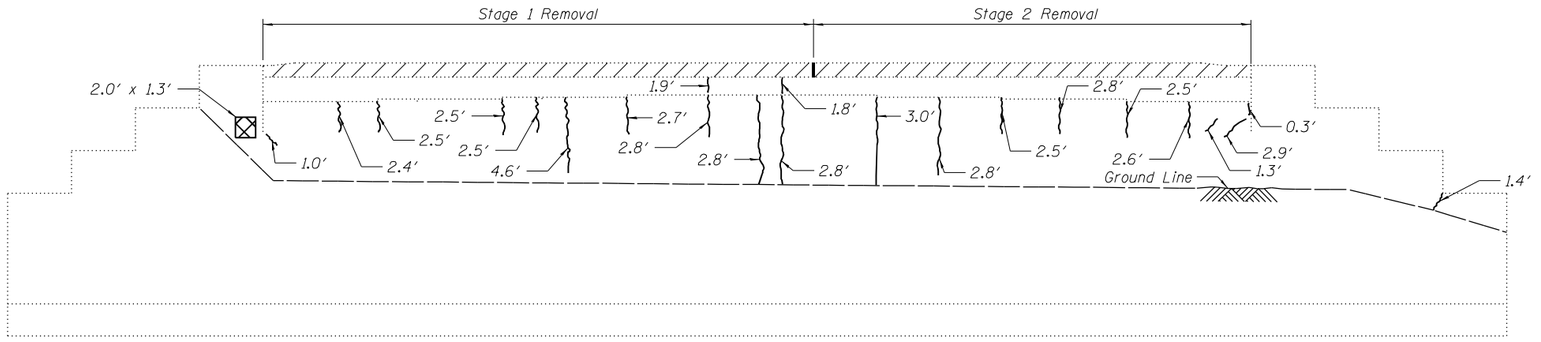
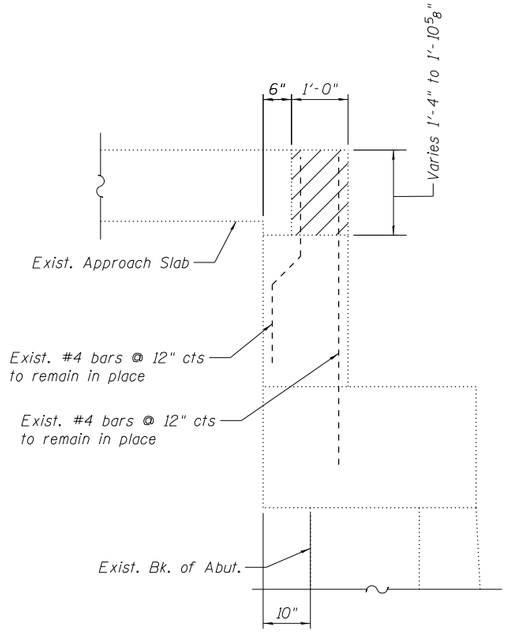
		CONTRACT NO. 62P45		
		ILLINOIS FED. AID PROJECT		



TOP VIEW



ELEVATION



SECTION A-A

(Dimensions are at right angle)

Notes:

Existing reinforcement bars that project from the abutment after concrete removal are to remain in place. The existing reinforcement bars shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars damaged during concrete removal shall be replaced with approved bar splicer or anchorage system. Cost included with "Concrete Removal".

Repair of the existing abutment shall include but not be limited to the areas shown. The actual areas to be repaired will be determined by the Engineer at the time of construction.

LEGEND

Concrete Removal

Epoxy Crack Injection

Structural Repair of Concrete
(Depth equal to or Less than 5 inches)

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	4.0
Epoxy Crack Injection	Foot	66.0
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	2.6

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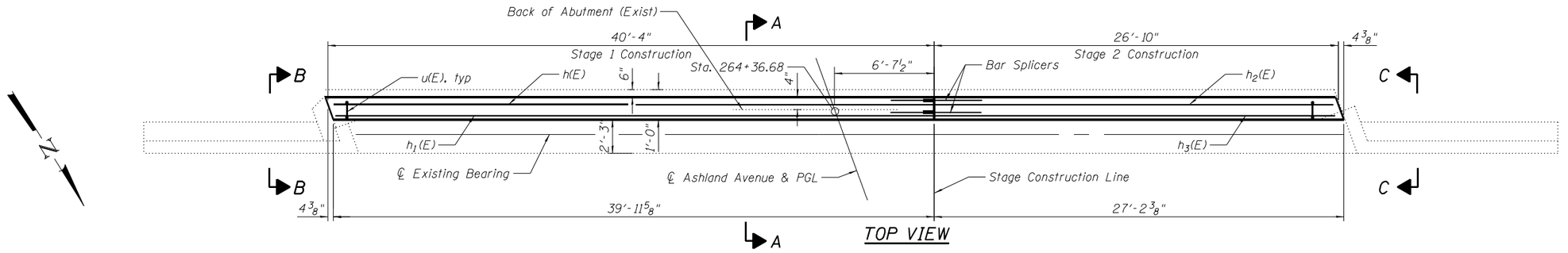
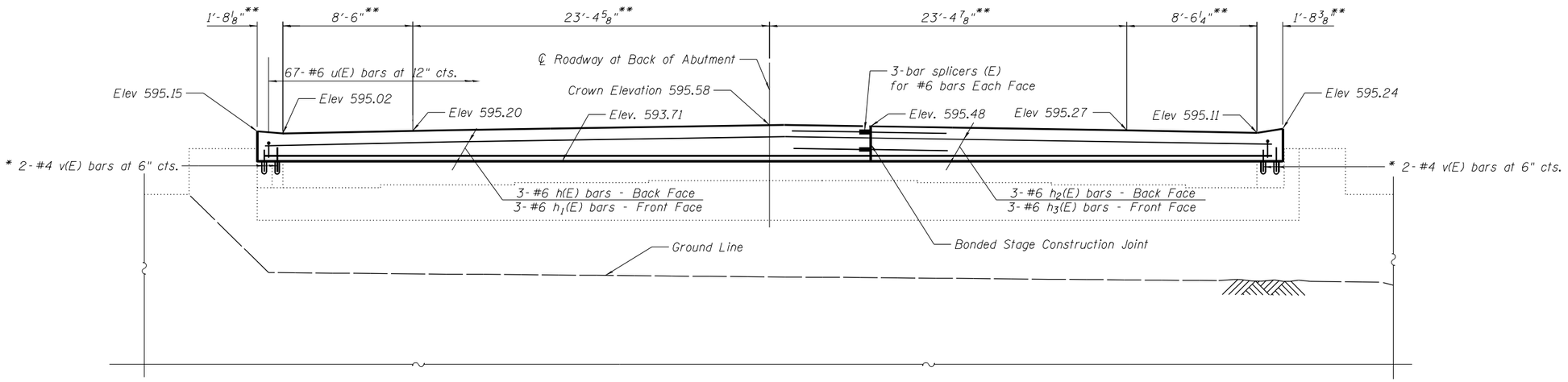
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT REPAIRS AND CONCRETE REMOVAL
STRUCTURE NO. 016-0301
SHEET NO 20 OF 29 SHEETS

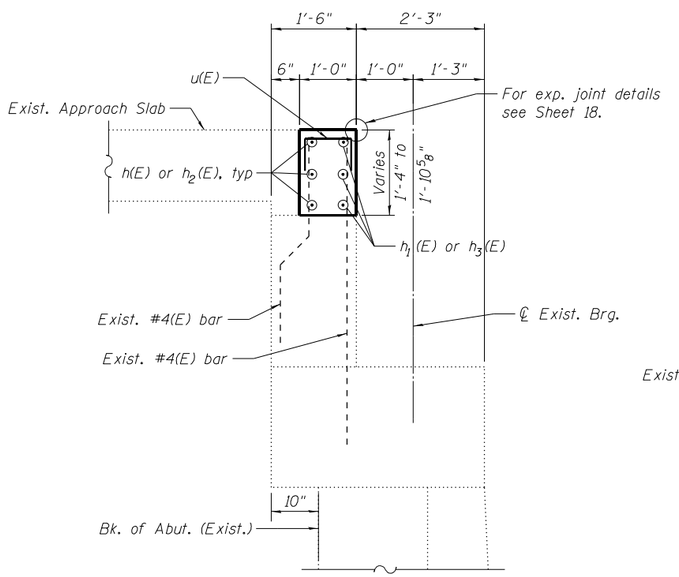
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	374
		CONTRACT NO. 62P45		
	ILLINOIS FED. AID PROJECT			



TOP VIEW

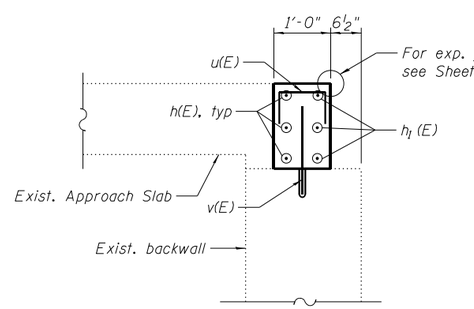


ELEVATION



SECTION A-A

(Dimensions are at right angle)



SECTION B-B

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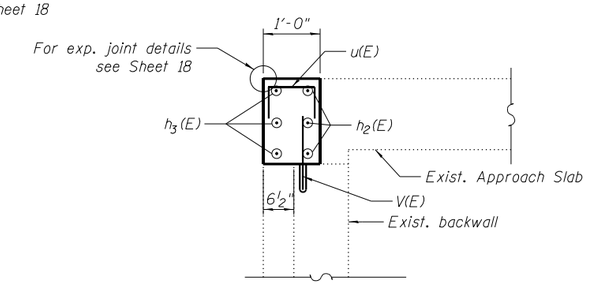
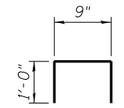


SECTION C-C

(Dimensions are at right angle)



BAR u(E)

* Epoxy grout v(E) bars in 9" (min.) drilled holes. See Section 584 of the Standard Specifications. Cost of hole drilling and epoxy grouting is included with Reinforcement Bars, Epoxy Grouted. Minimum edge distance from the edge of existing concrete = 6".

** Dimensions are measured along Back of Abutment (Exist.)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	3	#6	40'-0"	
h1(E)	3	#6	39'-8"	
h2(E)	3	#6	26'-6"	
h3(E)	3	#6	26'-10"	
u(E)	67	#5	2'-9"	
v(E)	4	#4	1'-11"	
Concrete Superstructure			Cu Yd	4.0
Protective Coat			Sq Yd	5
Reinforcement Bars, Epoxy Coated			Pound	800

Notes:

Quantity of concrete included with Concrete Superstructure.

For detail of Bar Splicers see Sheet 29.

All elevations are measured at Back of Abutment (Exist.)

Shared Use Path and Sidewalk are not shown for Clarity. See Sheets 12 and 13.

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DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT ALTERATIONS
STRUCTURE NO. 016-0301
SHEET NO 21 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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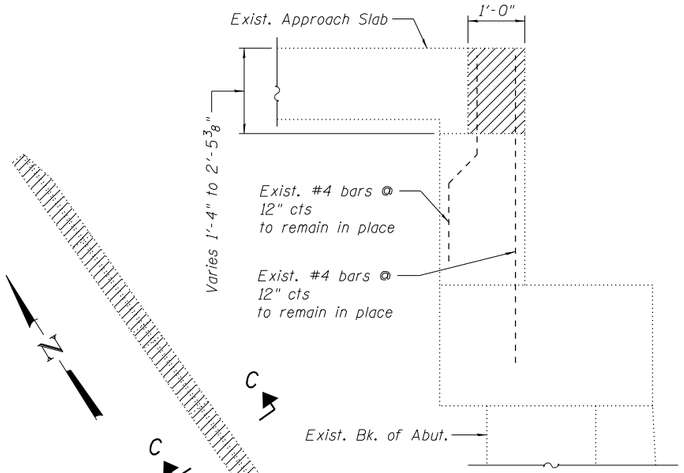
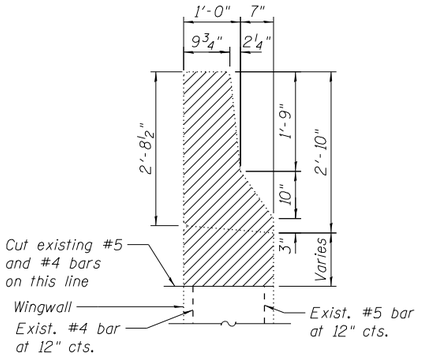
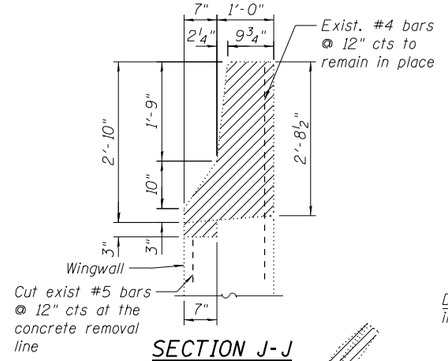
		CONTRACT NO. 62P45		
	ILLINOIS FED. AID PROJECT			



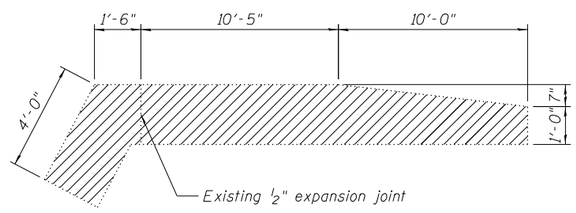
SECTION A-A



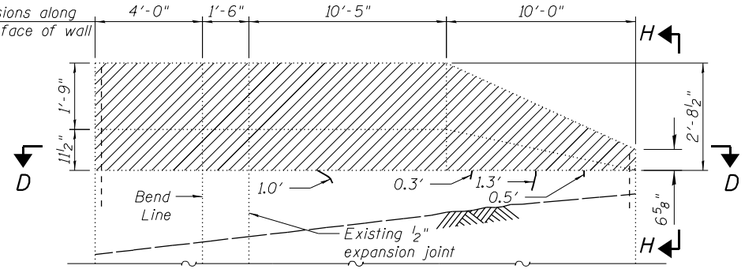
SECTION C-C



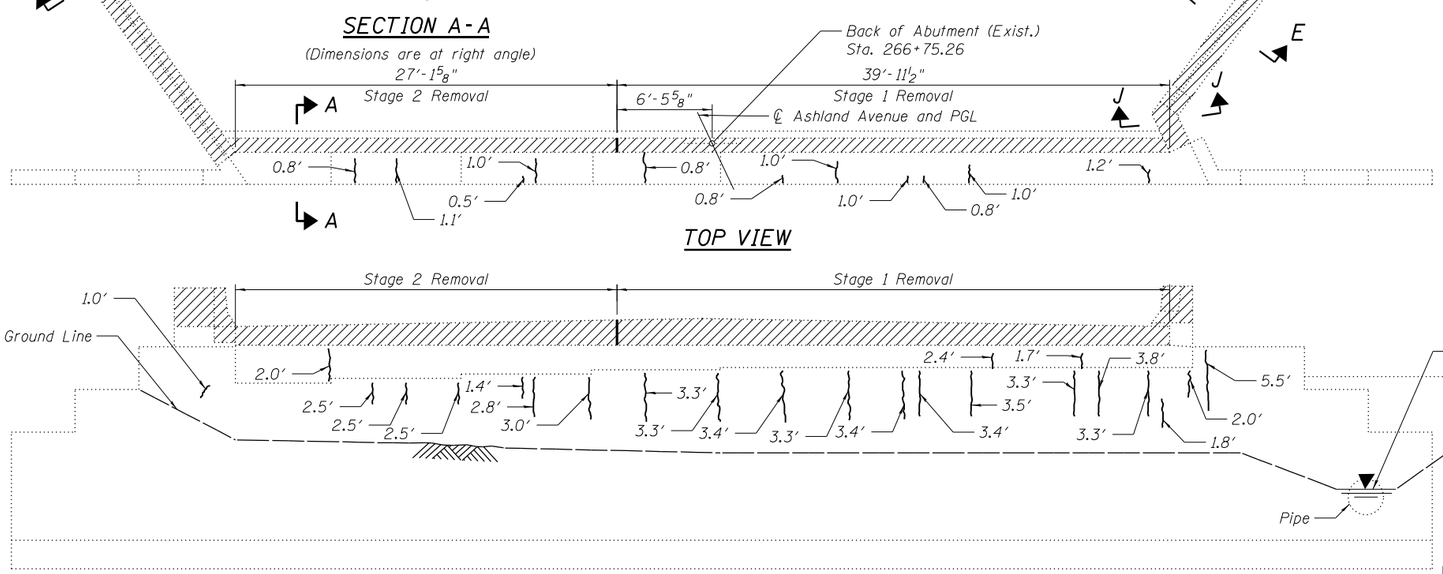
SECTION J-J



SECTION D-D

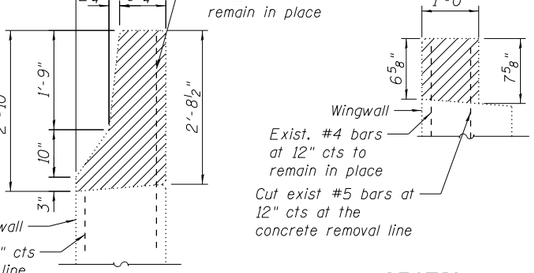


EAST WINGWALL DEVELOPED OUTSIDE ELEVATION



TOP VIEW

ELEVATION



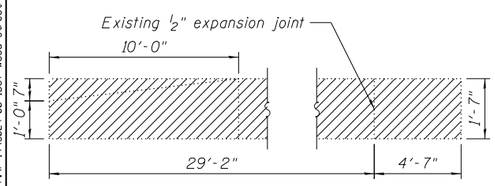
SECTION E-E

SECTION H-H

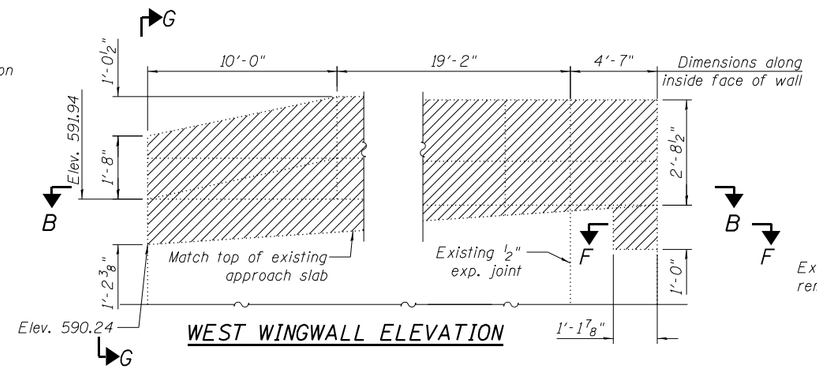
LEGEND

Concrete Removal

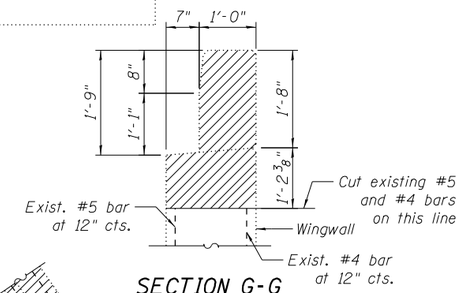
Epoxy Crack Injection



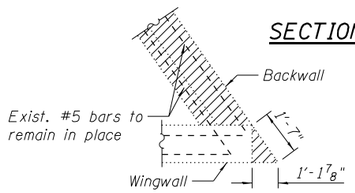
SECTION B-B



WEST WINGWALL ELEVATION



SECTION G-G



SECTION F-F

Notes:

Existing reinforcement bars that project from the backwall and the east wingwall after concrete removal are to remain in place. Existing reinforcement bars that project from the west wingwall are to be cut as shown in Section C-C. The existing reinforcement bars that are to remain shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars damaged during concrete removal shall be replaced with approved bar splicer or anchorage system. Cost included with "Concrete Removal".

Repair of the existing abutment shall include but not be limited to the areas shown. The actual areas to be repaired will be determined by the Engineer at the time of construction.

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	12.1
Epoxy Crack Injection	Foot	78.2

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PLOT DATE = 12/3/2021	CHECKED - SPK	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT REPAIRS AND CONCRETE REMOVAL
STRUCTURE NO. 016-0301
SHEET NO 22 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	376
		CONTRACT NO. 62P45		
		ILLINOIS FED. AID PROJECT		

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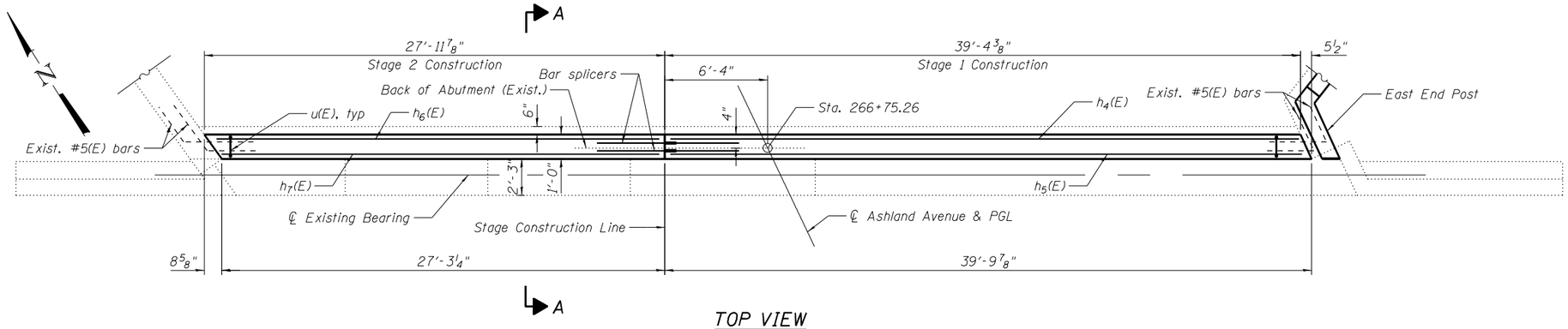
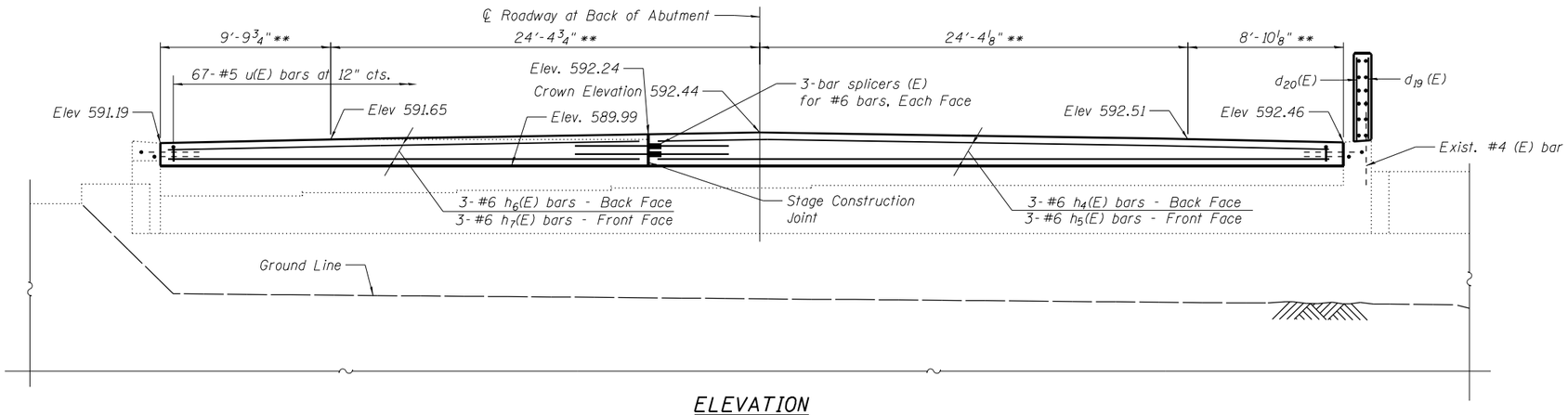
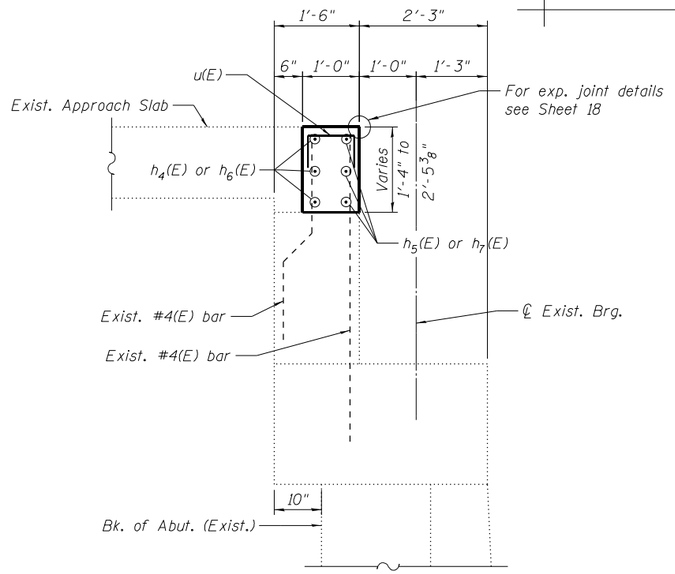


TOP VIEW



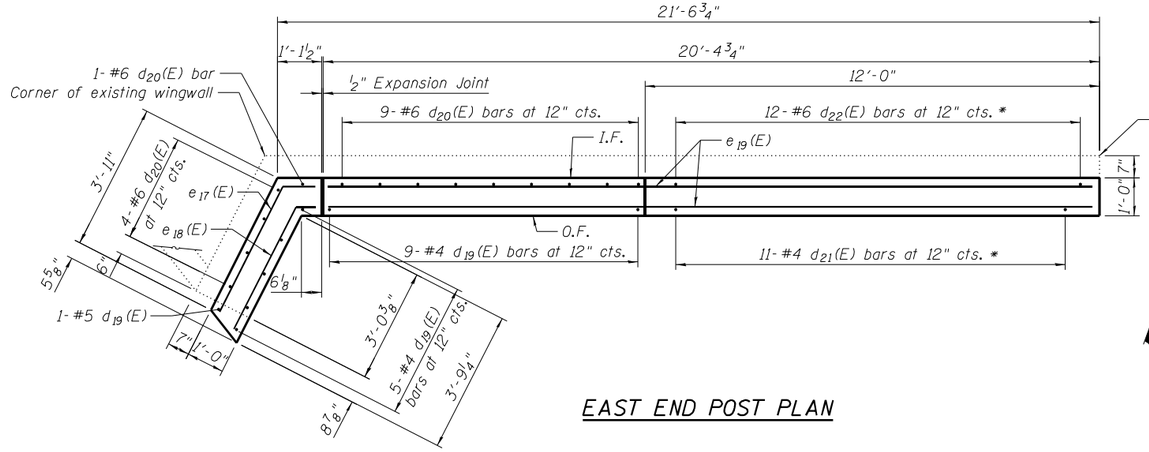
ELEVATION

** Dimensions are measured along Back of Abutment (Exist.)



SECTION A-A

(Dimensions are at right angle)



EAST END POST PLAN

* See Field Cutting Diagram on Sheet 24.

Notes:

Quantity of concrete included with Concrete Superstructure.

For East End Post, Bill of Material and Bar Bending Details see Sheet 24.

For detail of Bar Splicers see Sheet 29.

Shared Use Path and Sidewalk are not shown for clarity. See Sheets 14 and 15.

All elevations are measured at Back of Abutment (Exist.)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT ALTERATIONS
STRUCTURE NO. 016-0301
SHEET NO 23 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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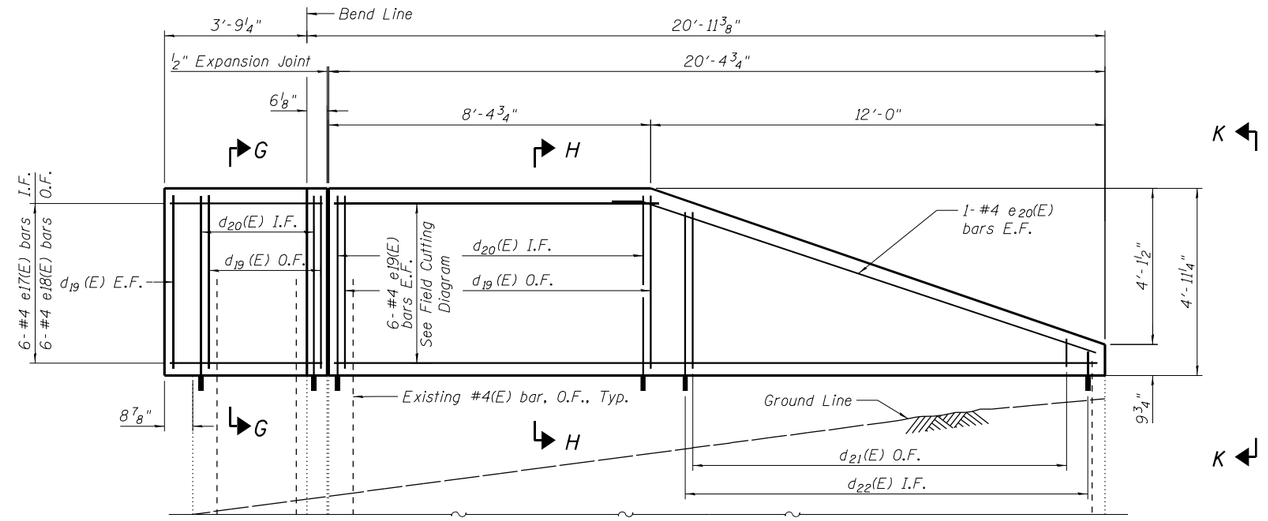
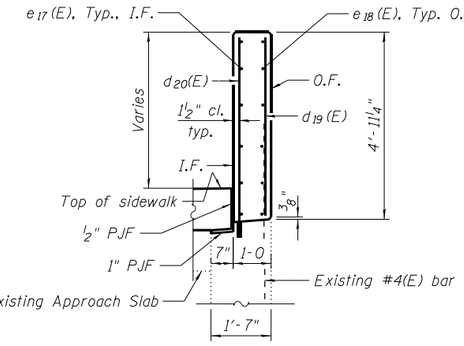
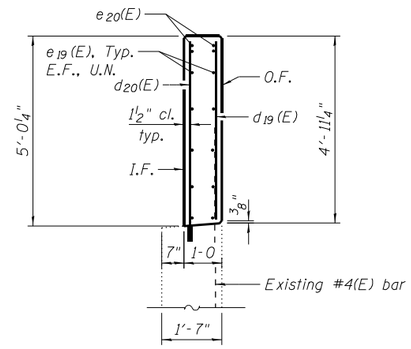
		CONTRACT NO. 62P45		
	ILLINOIS FED. AID PROJECT			



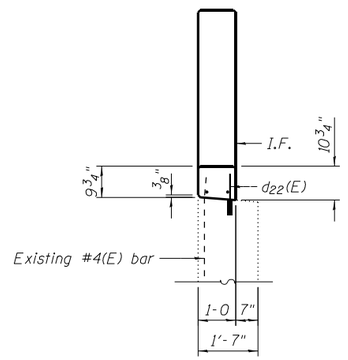
EAST END POST OUTSIDE ELEVATION
(DEVELOPED VIEW)



SECTION G-G

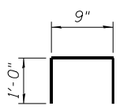


SECTION H-H

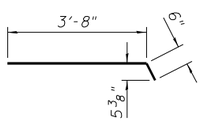


SECTION K-K

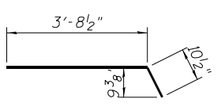
Note:
Drill and set d_{20}(E) and d_{22}(E) bars according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6".



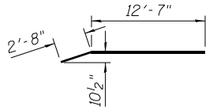
BAR u(E)



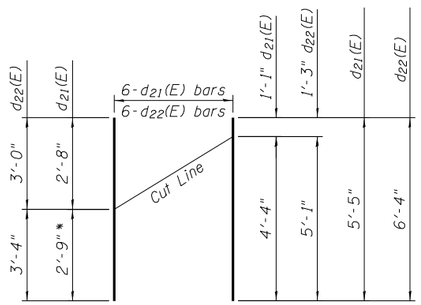
BAR e18 (E)



BAR e17 (E)



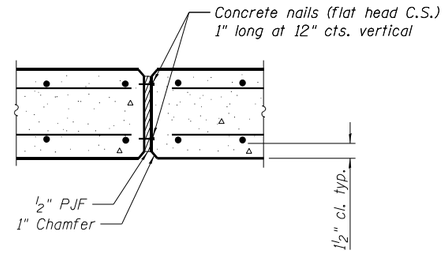
BAR e20(E)



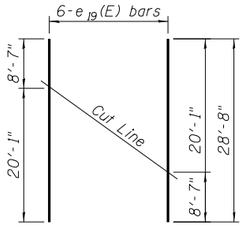
FIELD CUTTING DIAGRAM

Order bars full length. Cut to fit as shown and place at one end of the dimensions line shown on the plan. Use remainder of bars at opposite end of dimension line.

** Indicates bar length to be discarded when an odd number of bars are required.*



EXPANSION JOINT DETAIL



FIELD CUTTING DIAGRAM

Order bars full length. Cut to fit as shown and place on outside face of the end post. Use remainder of bars on the inside face of the end post.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d_{19}(E)	15	#4	4'-8''	
d_{20}(E)	14	#6	5'-4''	
d_{21}(E)	6	#4	5'-5"	
d_{22}(E)	6	#6	6'-4"	
e_{17}(E)	6	#4	4'-7''	
e_{18}(E)	6	#4	4'-2''	
e_{19}(E)	6	#4	28'-8''	
e_{20}(E)	2	#4	15'-3"	
h_4(E)	3	#6	39'-0"	
h_5(E)	3	#6	39'-6"	
h_6(E)	3	#6	27'-8"	
h_7(E)	3	#6	27'-0"	
u (E)	67	#5	2'-9"	⊓
Concrete Superstructure			Cu. Yd.	9.3
Protective Coat			Sq. Yd.	45
Reinforcement Bars, Epoxy Coated			Pound	1,210

E.F. = Each Face
I.F. = Inside Face
O.F. = Outside Face
U.N. = Unless Noted

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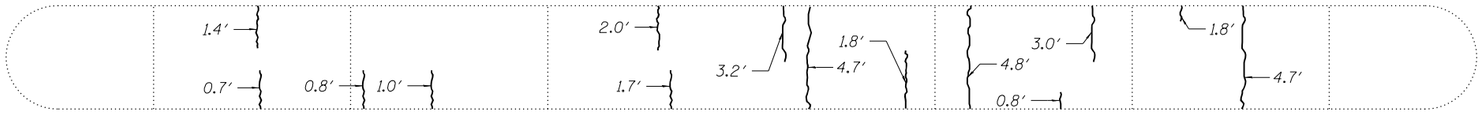
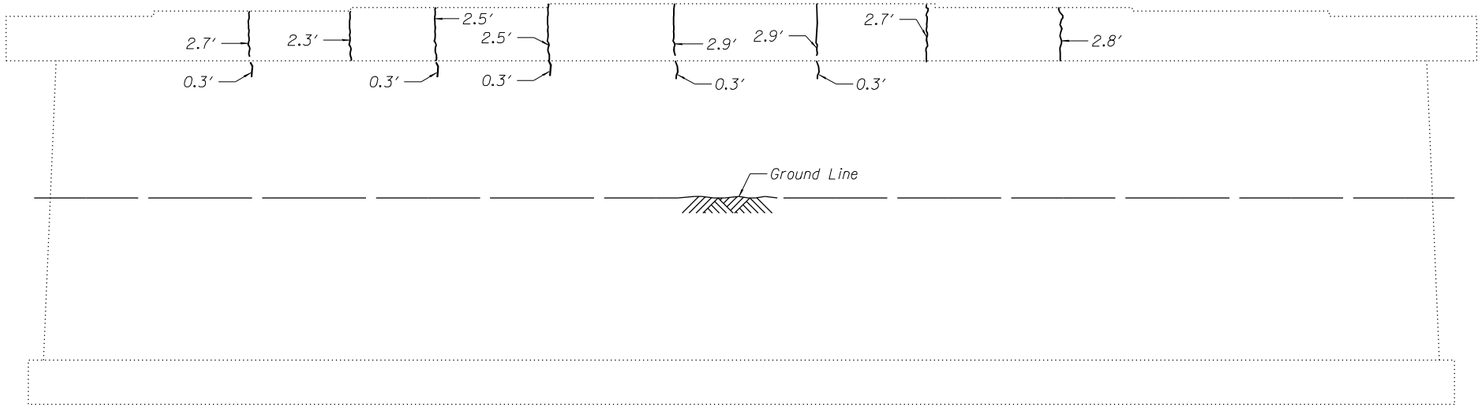
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT DETAILS
STRUCTURE NO. 016-0301
SHEET NO 24 OF 29 SHEETS

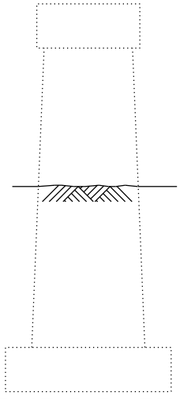
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	378
		CONTRACT NO. 62P45		
	ILLINOIS FED. AID PROJECT			



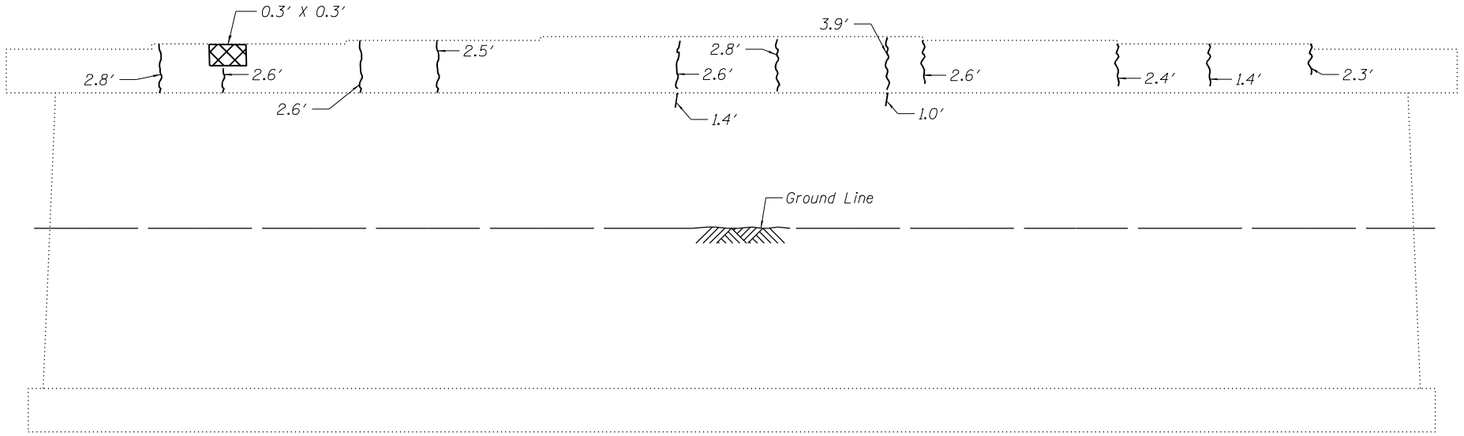
TOP PLAN



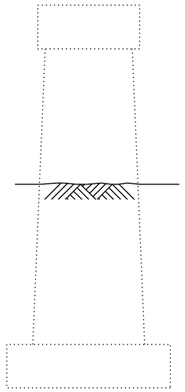
SOUTH ELEVATION



EAST ELEVATION



NORTH ELEVATION



WEST ELEVATION

Note:
Repair of the existing pier shall include but not be limited to the areas shown. The actual areas to be repaired will be determined by the Engineer at the time of construction.

LEGEND

Epoxy Crack Injection

Structural Repair of Concrete
(Depth equal to or Less than 5 inches)

BILL OF MATERIAL

Item	Unit	Quantity
Epoxy Crack Injection	Foot	86.1
Structural Repair of Concrete (Depth equal to or Less than 5 inches)	Sq. Ft.	0.1

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1 REPAIRS
STRUCTURE NO. 016-0301
SHEET NO 25 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	379
		CONTRACT NO. 62P45		
	ILLINOIS FED. AID PROJECT			

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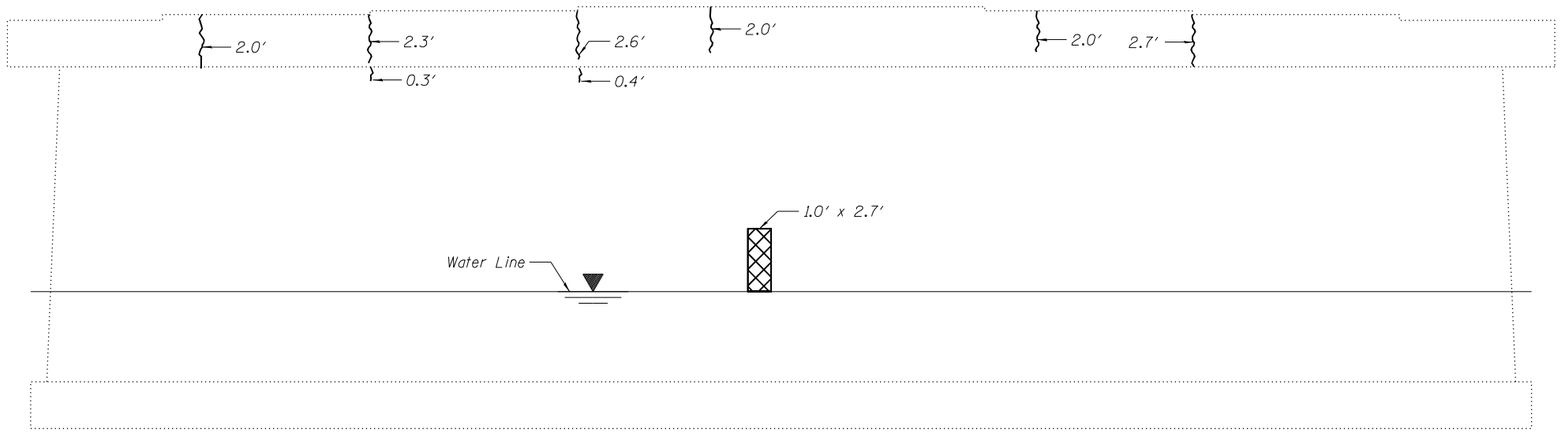
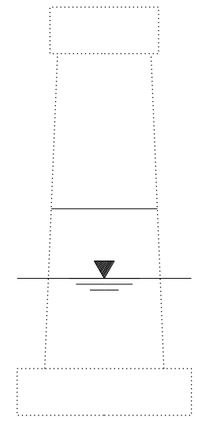
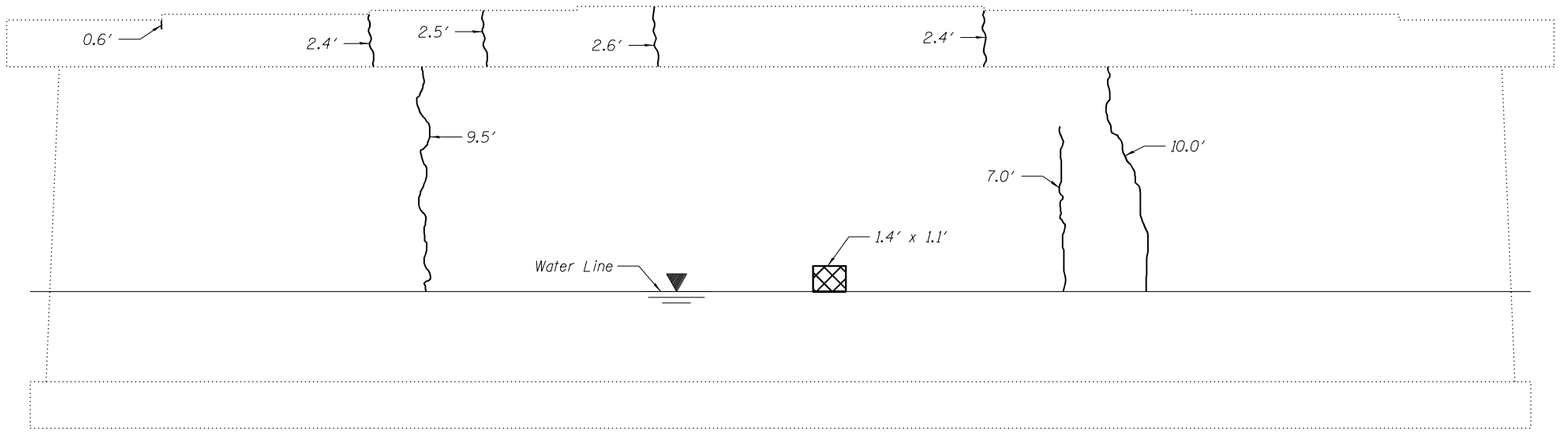
TOP PLAN



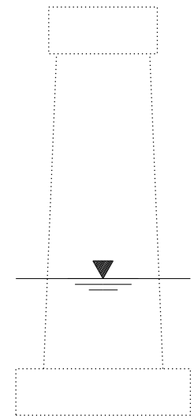
SOUTH ELEVATION



EAST ELEVATION



NORTH ELEVATION



WEST ELEVATION

Note:
Repair of the existing pier shall include but not be limited to the areas shown. The actual areas to be repaired will be determined by the Engineer at the time of construction.

LEGEND

Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)

Epoxy Crack Injection

BILL OF MATERIAL

Item	Unit	Quantity
Epoxy Crack Injection	Foot	64.0
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	4.2

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DEPARTMENT OF TRANSPORTATION

PIER 2 REPAIRS
STRUCTURE NO. 016-0301
SHEET NO 26 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	380
		CONTRACT NO. 62P45		
		ILLINOIS FED. AID PROJECT		

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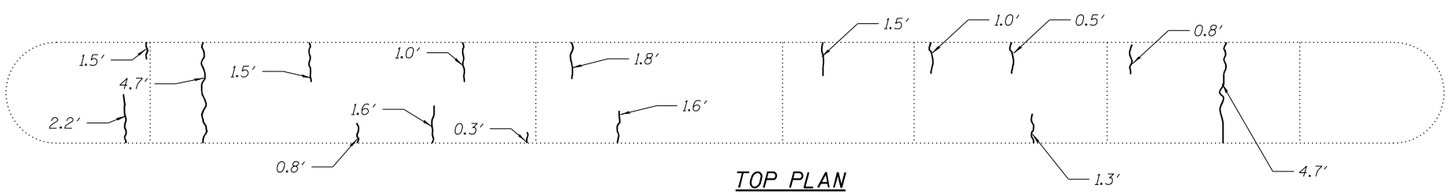
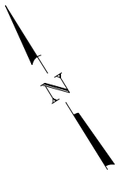
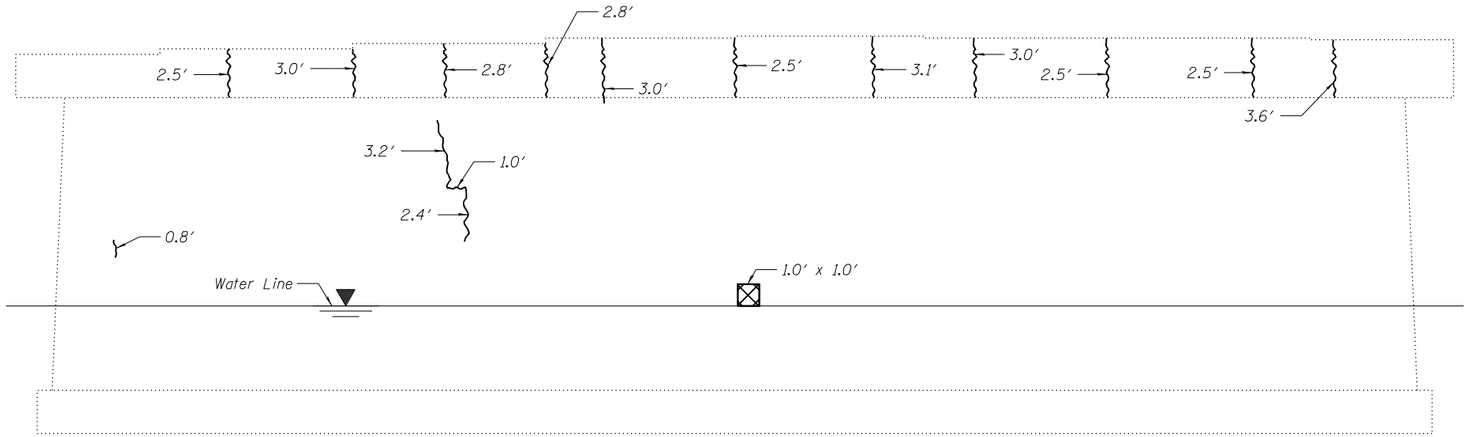
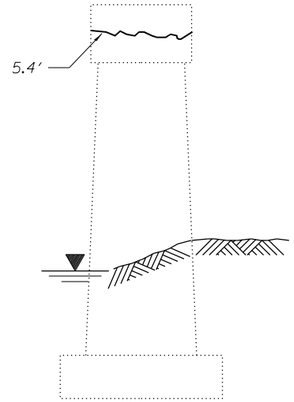


TOP PLAN

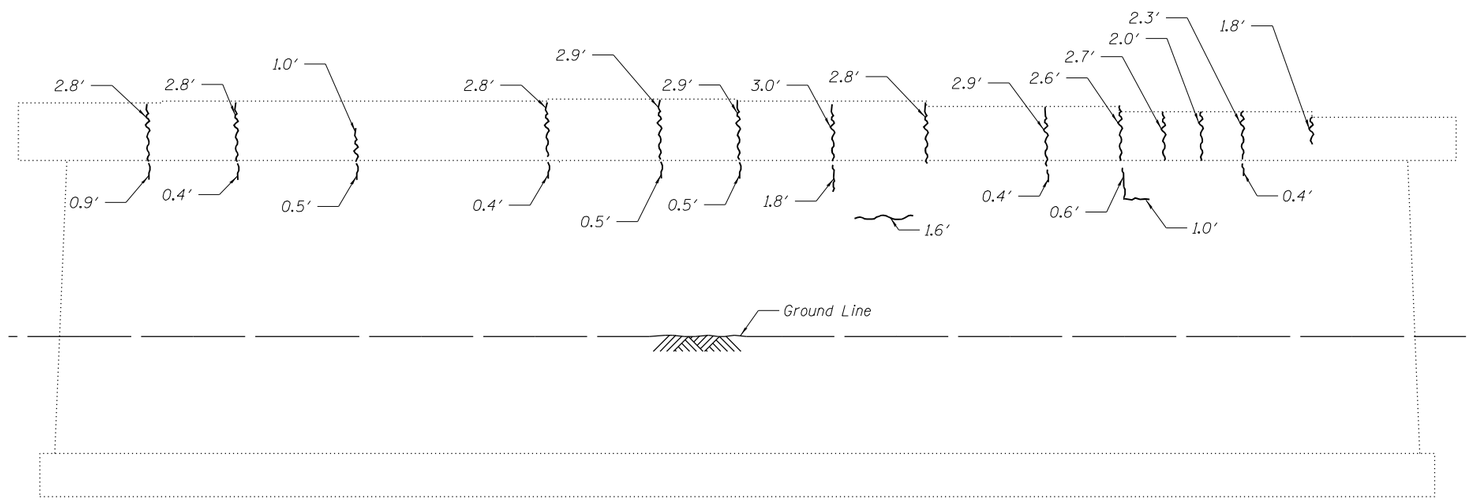




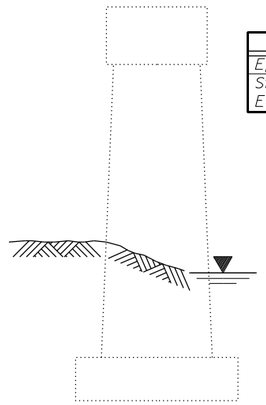
SOUTH ELEVATION



EAST ELEVATION



NORTH ELEVATION



WEST ELEVATION

Note:
Repair of the existing pier shall include but not be limited to the areas shown. The actual areas to be repaired will be determined by the Engineer at the time of construction.

LEGEND

Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)

Epoxy Crack Injection

BILL OF MATERIAL

Item	Unit	Quantity
Epoxy Crack Injection	Foot	115.2
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	1.0

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PLOT DATE = 12/3/2021	CHECKED - SPK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 3 REPAIRS
STRUCTURE NO. 016-0301
SHEET NO 27 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	381
		CONTRACT NO. 62P45		
	ILLINOIS FED. AID PROJECT			

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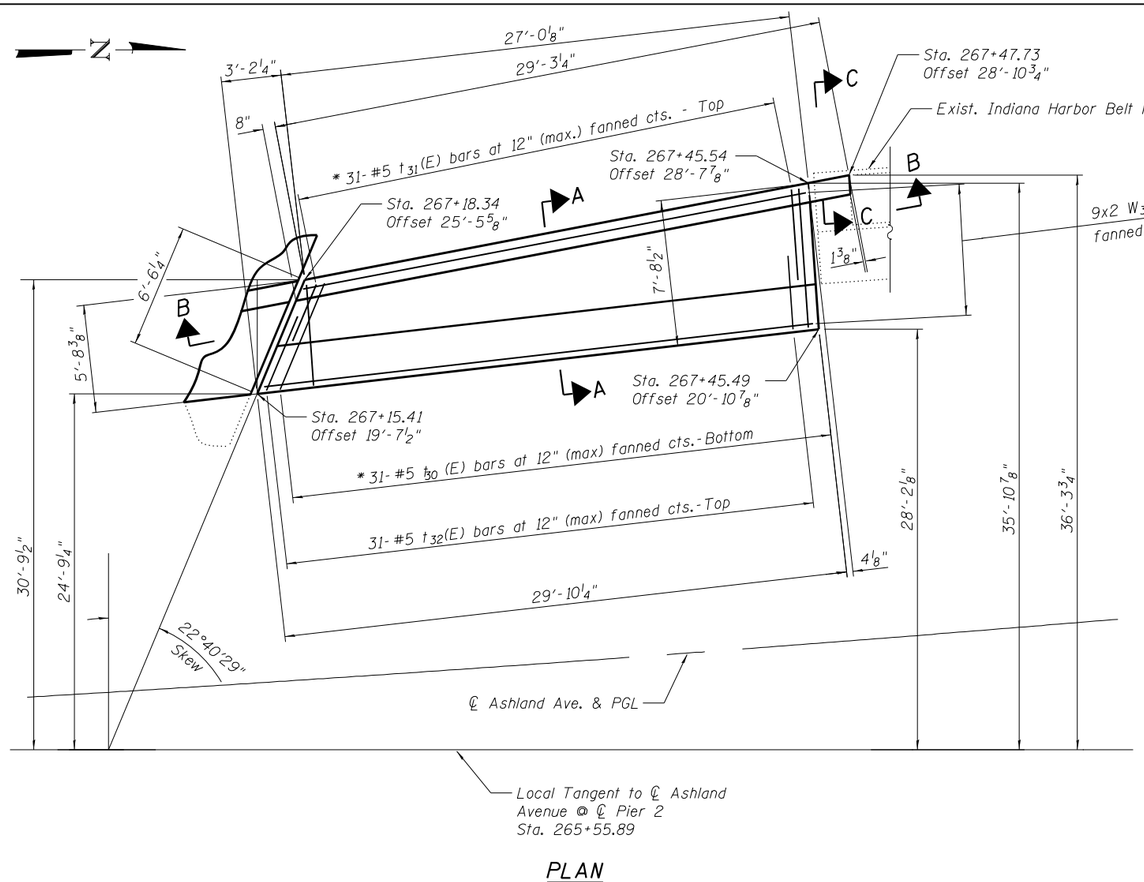
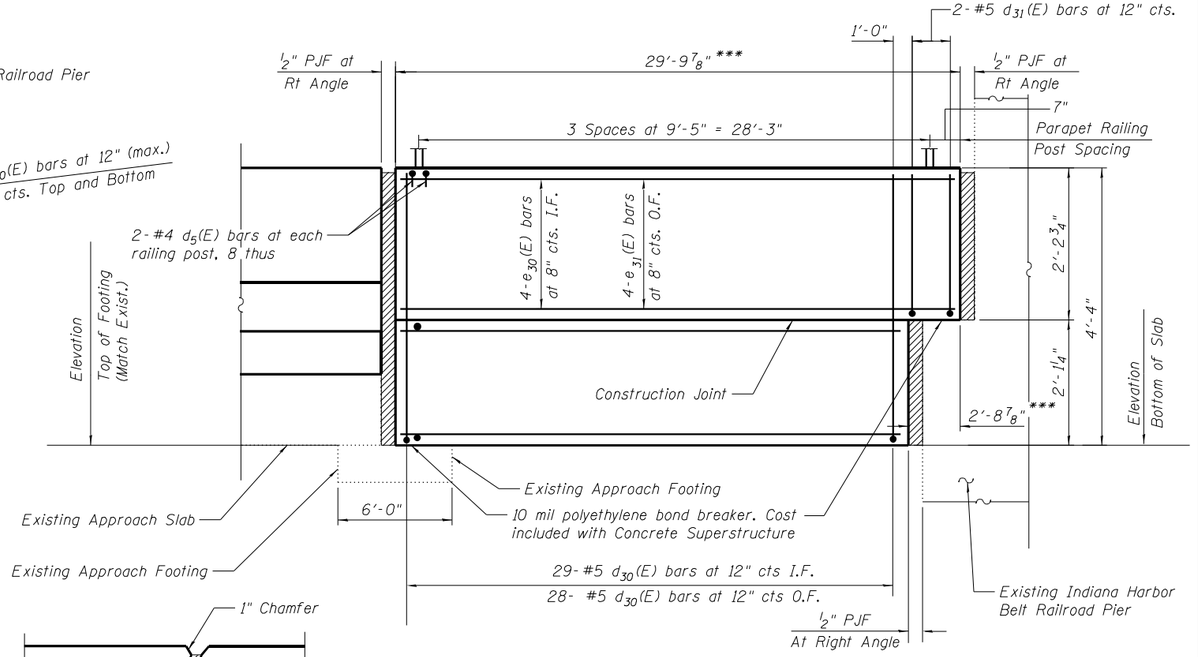
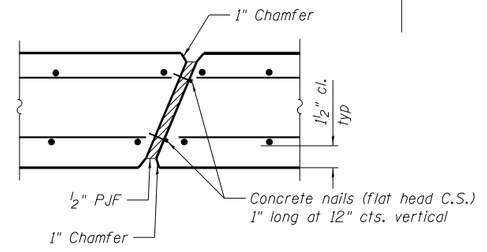


PLAN

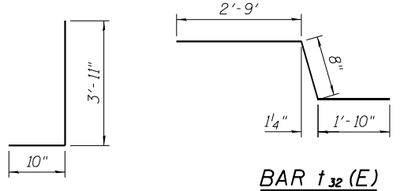


SECTION B-B

*** Along front face of wall.

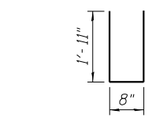


JOINT DETAIL

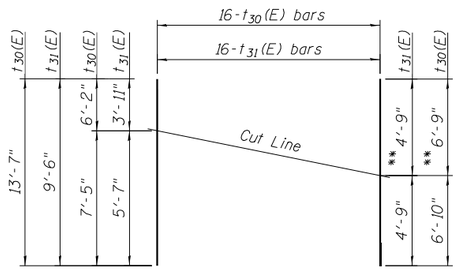


BAR $d_{30}(E)$

BAR $t_{32}(E)$



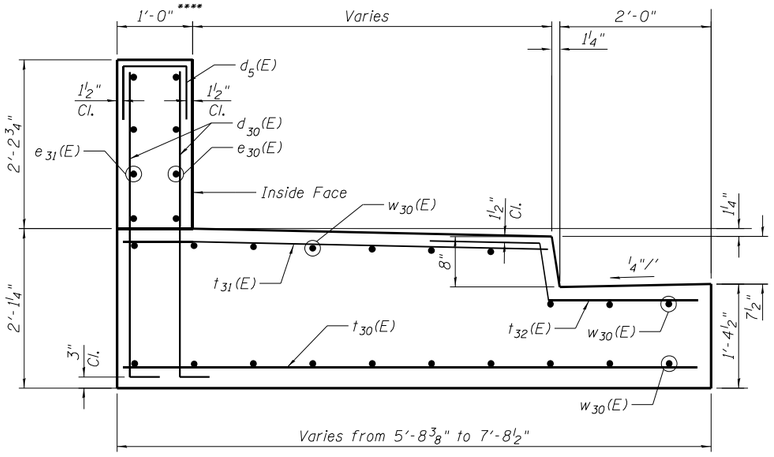
BAR $d_{31}(E)$



* FIELD CUTTING DIAGRAM

Order bars full length. Cut to fit as shown and place at one end of the dimension line shown on the plan. Use remainder of bars at opposite end of the dimension line.

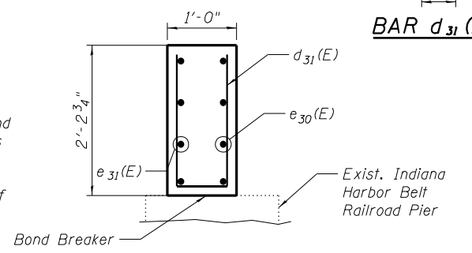
*** Indicates bar length to be discarded when an odd number of bars are required.*



SECTION A-A

(At Right Angle to the Gutter)

**** At Right Angle to barrier



SECTION C-C

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$d_5(E)$	8	#4	2'-2"	⊓
$d_{30}(E)$	57	#5	4'-9"	L
$d_{31}(E)$	2	#5	4'-6"	⊔
$e_{30}(E)$	4	#4	29'-8"	—
$e_{31}(E)$	4	#4	29'-0"	—
$t_{30}(E)$	16	#5	13'-7"	—
$t_{31}(E)$	16	#5	9'-6"	—
$t_{32}(E)$	31	#5	5'-3"	⌐
$t_{33}(E)$	3	#5	6'-2"	—
$t_{34}(E)$	3	#5	3'-9"	—
$w_{30}(E)$	36	#5	16'-5"	—
Structure Excavation		Cu. Yd.		16
Concrete Superstructure		Cu. Yd.		15.3
Protective Coat		Sq. Yd.		39
Reinforcement Bars, Epoxy Coated		Pound		1,660

I.F. = Inside Face
O.F. = Outside Face

Note: For Parapet Railing details see Sheet 16.
For North Bridge Approach Slab details see Sheets 14 and 15.

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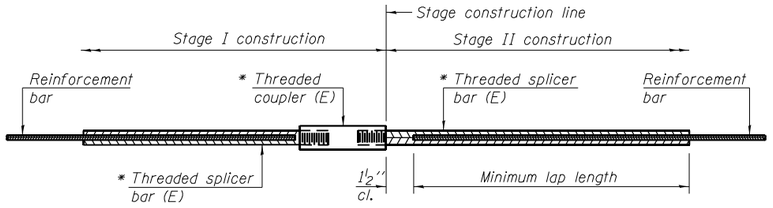
DEPARTMENT OF TRANSPORTATION

NORTHWEST BARRIER SLAB
STRUCTURE NO. 016-0301
SHEET NO 28 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	382
		CONTRACT NO. 62P45		
	ILLINOIS FED. AID PROJECT			

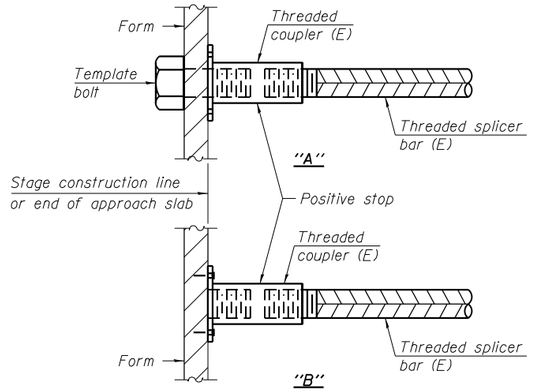


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1½" + thread length

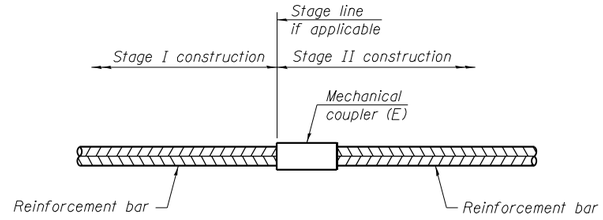
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#6	16	3'-5"
South Abutment	#6	6	3'-4"
North Abutment	#6	6	3'-4"



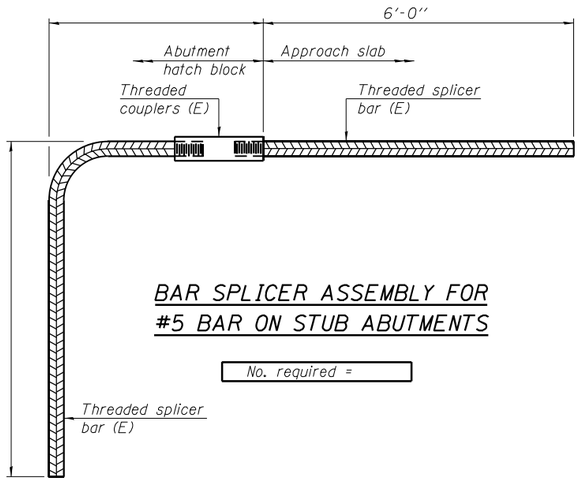
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

11-22-2016

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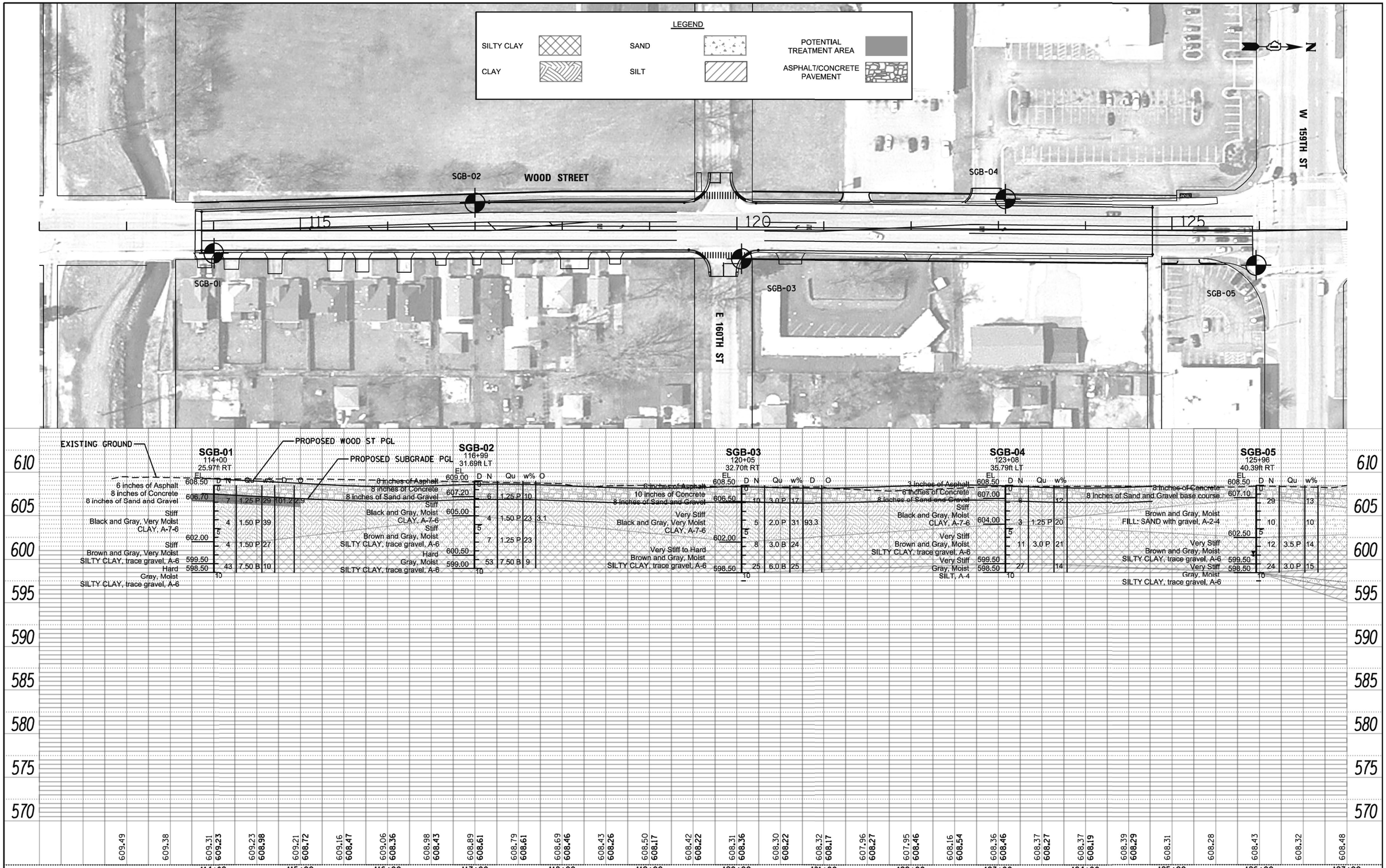
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 016-0301
SHEET NO 29 OF 29 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	383
		CONTRACT NO. 62P45		
	ILLINOIS FED. AID PROJECT			



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PLOTTED
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RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK NO.
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PLOTTED
GRADES CHECKED
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STRUCTURE NOTAT'NS CHKD
BY
DATE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOOD STREET/ASHLAND AVENUE
SOUTH OF US ROUTE 6 (159TH STREET) TO 138TH STREET
SOIL BORING PLAN & PROFILE

SCALE: 1"=50' | SHEET 1 OF 13 SHEETS | STA. 113+00 TO STA. 127+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	384

CONTRACT NO. 62P45

ILLINOIS FED. AID PROJECT

PLAN

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		CADD FILE NAME

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PROFILE

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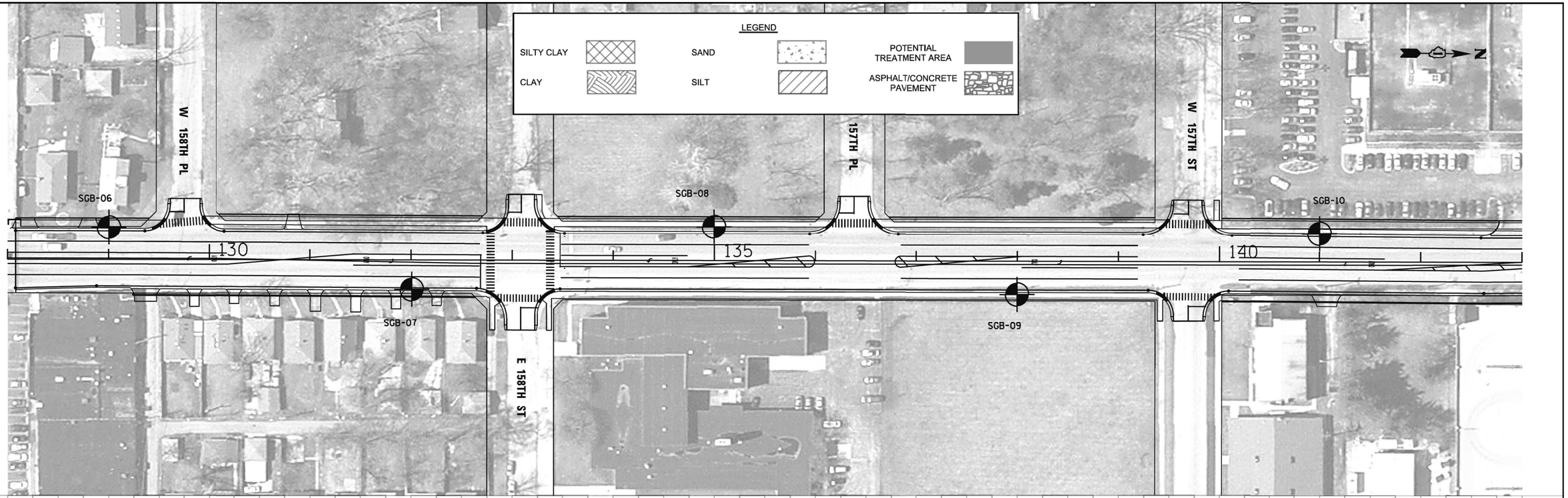

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOOD STREET/ASHLAND AVENUE
SOUTH OF US ROUTE 6 (159TH STREET) TO 138TH STREET
SOIL BORING PLAN & PROFILE

SCALE: 1"=50' | SHEET 2 OF 13 SHEETS | STA. 128+00 | TO STA. 143+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P45		
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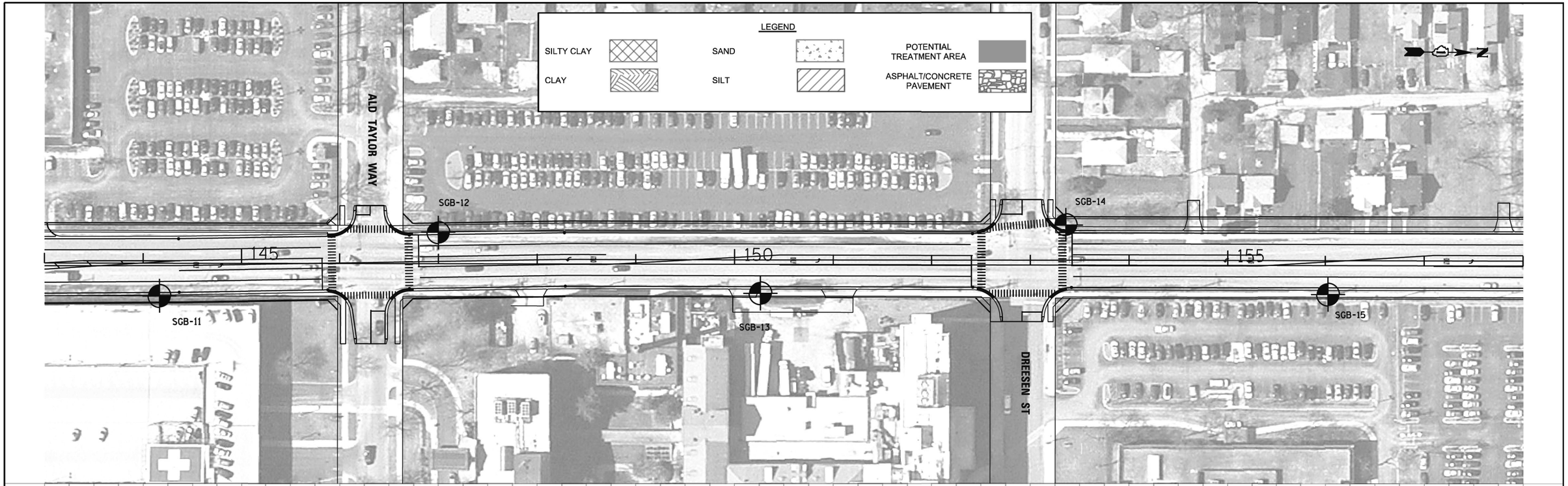

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RT. OF WAY CHECKED
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NOTE BOOK
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DATE
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PROFILE
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PROFILE CHECKED
DIM. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
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DATE
BY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOOD STREET/ASHLAND AVENUE
SOUTH OF US ROUTE 6 (159TH STREET) TO 138TH STREET
SOIL BORING PLAN & PROFILE

SCALE: 1"=50' | SHEET 3 OF 13 SHEETS | STA. 143+00 | TO STA. 158+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	386
		CONTRACT NO. 62P45		
		ILLINOIS FED. AID PROJECT		

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RT. OF WAY CHECKED
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NOTE BOOK
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BY
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GRADES CHECKED
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NOTE BOOK
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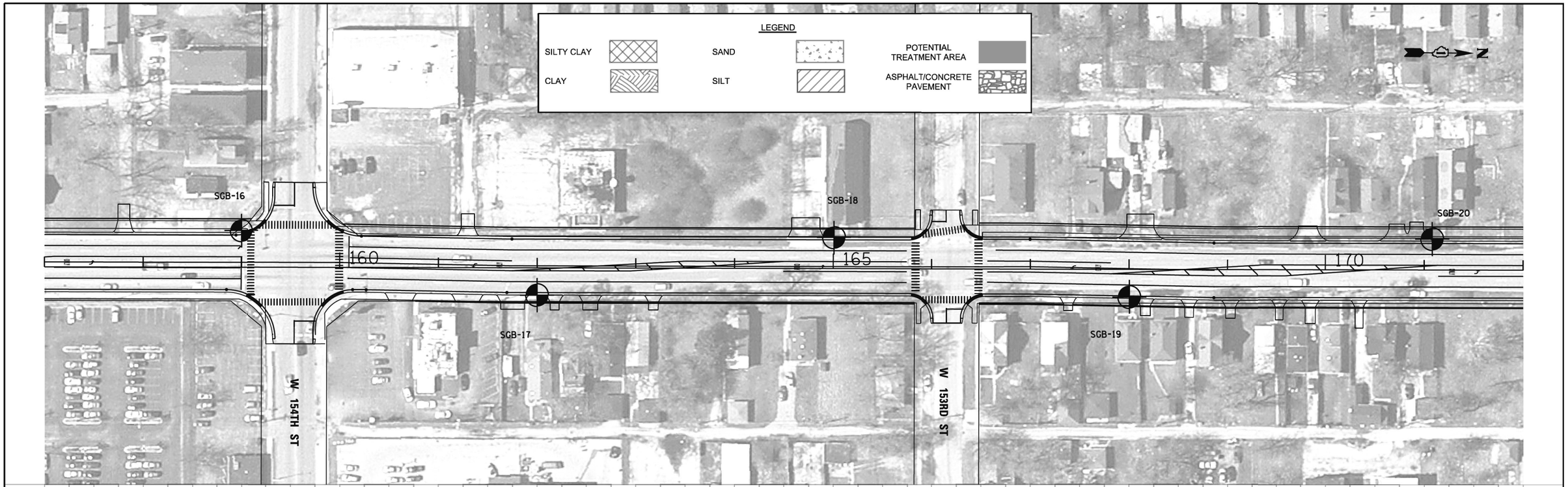
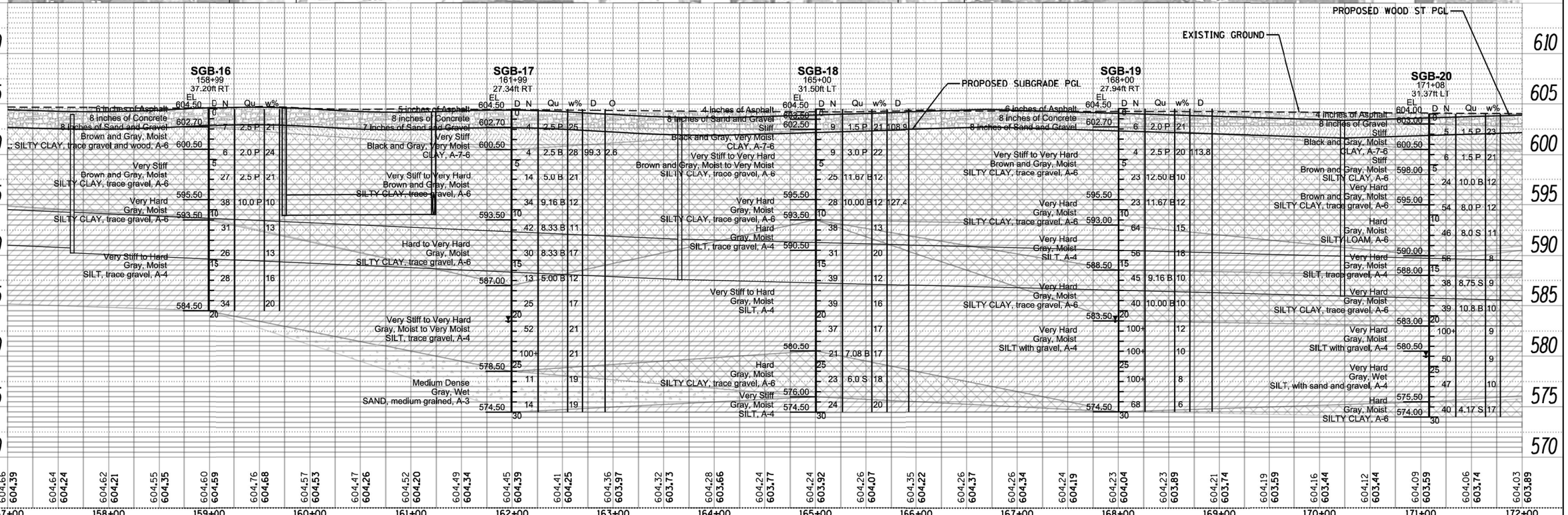
BY
DATE





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WOOD STREET/ASHLAND AVENUE
SOUTH OF US ROUTE 6 (159TH STREET) TO 138TH STREET
SOIL BORING PLAN & PROFILE

SCALE: 1"=50' | SHEET 4 OF 13 SHEETS | STA. 157+00 | TO STA. 172+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	387
		CONTRACT NO. 62P45		
		ILLINOIS	FED. AID PROJECT	

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ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
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PROFILE
SURVEYED BY
PLOTTED DATE
GRADES CHECKED
DIM. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
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LEGEND

SILTY CLAY
CLAY
SAND
SILT
POTENTIAL TREATMENT AREA
ASPHALT/CONCRETE PAVEMENT

N

SGB-21 SGB-22 SGB-23 SGB-24 SGB-25

175 180 185

W 151ST ST

W 150TH ST

PROPOSED WOOD ST PGL

EXISTING GROUND

PROPOSED SUBGRADE PGL

SGB-21
174+00
30.48ft RT
EL 604.00

O	D	w%	Qu	N	D	EL
3.0		10.9	2.7		0	604.00
				7		602.20
	18	2.5 P			5	
				7		600.00
	11	6.0 P		17		
					10	595.00
	13	9.16 B		24		
					15	593.00
	11			86		
					20	
	9			52		588.00
	12	9.16 B		47		
	12	10.00 B		44		
	11			100+		583.00
	2			100+		580.50
						580.00

6 inches of Asphalt
8 inches of Concrete
8 inches of Sand and Gravel
Very Stiff
Black and Gray, Moist to Very Moist
CLAY, A-7-6
Very Stiff to Hard
Brown and Gray, Mois
SILTY CLAY, A-6
Very Hard
Gray, Moist
SILTY CLAY, trace gravel, A-6
Very Hard
Gray, Moist
SILT, A-4
Very Hard
Gray, Moist
SILTY CLAY, trace gravel, A-6
Very Hard
Gray, Moist
SILT with gravel, A-4
Very Hard
Gray, Dry
SILT with rock fragments, A-4

SGB-22
177+99
32.12ft RT
EL 603.50

D	N	Qu	w%	D
	0			
	4	1.5 P	23	
	5	2.08 B	19	112.5
	5			
	23	10.0 S	12	
	25	12.5 B	13	
	10			
	22	10.0 B	13	
	43		11	
	15			
	42		13	
	41		15	
	20			
	21		10	
	22	7.5 B	11	
	25			
	21	7.5 P	11	
	46		18	
	30			

6 inches of Asphalt
8 inches of Gravel
Stiff
Black and Gray, Moist
CLAY, A-6
Very Stiff to Very Hard
Brown and Gray, Moist
SILTY CLAY, A-6
Very Hard
Gray, Moist
SILTY CLAY, A-6
Very Hard
Gray, Moist
SILT, A-4
Hard
Gray, Moist
SILTY CLAY, A-6
Very Hard
Gray, Moist
SILT, A-4

SGB-23
180+99
31.09ft RT
EL 603.50

D	N	Qu	w%	D
	0			
	10	2.5 P	24	103.9
	12	3.0 P	15	
	5			
	58	7.0 P	13	
	17	5.83 B	15	
	10			
	17	8.33 B	13	
	18	9.16 B	13	
	15			
	33		12	
	40		12	
	20			
	27	4.58 B	15	125.2
	18	4.17 B	14	
	25			
	27	4.17 B	18	
	34	4.58 B	22	
	30			

6 inches of Asphalt
8 inches of Concrete
8 inches of Sand and Gravel
Very Stiff
Black and Gray
Clay, A-7-6
Very Stiff to Very Hard
Brown and Gray, Moist
SILTY CLAY, trace gravel, A-6
Very Hard
Gray, Moist
SILTY CLAY, trace gravel, A-6
Hard to Very Hard
Gray, Moist
SILTY CLAY, trace gravel, A-6
Very Hard
Gray, Moist
SILT, A-4
Very Hard
Gray, Moist
SILTY CLAY, trace gravel, A-6
Hard
Gray, Moist
SILTY CLAY, A-6

SGB-24
183+97
31.37ft LT
EL 603.50

D	N	Qu	w%	D
	0			
	7	2.5 P	21	
	9	2.08 B	21	
	5			
	26	8.75 S	13	125
	22	10.83 S	12	
	10			
	62		12	
	100+		9	
	15			
	41		9	
	56	9.16 B	11	
	20			
	55		21	
	46		14	
	25			
	22		15	
	55		10	
	30			

6 inches of Asphalt
8 inches of Sand and Gravel
Very Stiff
Black and Gray, Moist
CLAY, A-7-6
Very Stiff to Very Hard
Brown and Gray, Moist
SILTY CLAY, trace gravel, A-6
Very Hard
Gray, Moist
SILT, trace gravel and clay, A-4
Very Hard
Gray, Moist
SILTY CLAY, trace gravel, A-6
Very Hard
Gray, Moist to Very Moist
SILT, trace clay, A-4
Medium Dense to Very Dense
Gray, Moist
SANDY CLAY, trace gravel, A-2-4

SGB-25
186+99
32.08ft RT
EL 602.50

D	N	Qu	w%
	0		
	6	2.5 P	23
	12	2.5 P	18
	5		
	17	5.0 P	14
	42	10.00 B	12
	10		
	69		12
	46		10
	15		
	61		11
	100+		15
	20		
	100+		16
	25	4.58 B	15
	25		
	15	6.25 B	15
	16	6.67 B	15
	30		

6 inches of Asphalt
8 inches of Concrete
8 inches of Sand and Gravel
Very Stiff
Black and Gray, Moist
CLAY, A-7-6
Very Stiff to Hard
Brown and Gray, Moist
SILTY CLAY, trace gravel, A-6
Very Hard
Gray, Moist
SILTY CLAY, trace gravel, A-6
Very Hard
Gray, Moist
SILT, trace gravel, A-4
Very Hard
Gray, Moist
SILT, A-4
Hard
Gray, Moist
SILTY CLAY, trace gravel, A-6

610 605 600 595 590 585 580 575 570

604.03 604.19 | 603.99 604.34 | 603.93 604.19 | 603.87 604.04 | 603.84 603.89 | 603.79 603.74 | 603.74 603.59 | 603.70 603.44 | 603.65 603.29 | 603.60 603.26 | 603.56 603.37 | 603.52 603.34 | 603.56 603.15 | 603.53 602.92 | 603.51 602.73 | 603.51 602.71 | 603.47 602.92 | 603.43 603.30 | 603.41 603.55 | 603.37 603.57 | 603.29 603.42 | 603.22 603.27 | 603.21 603.12 | 603.11 602.97 | 603.05 603.12 | 602.99 603.27 | 602.99 603.42 | 602.98 603.57 | 603.00 603.57 | 603.02 603.42 | 603.05 603.27

173+00 174+00 175+00 176+00 177+00 178+00 179+00 180+00 181+00 182+00 183+00 184+00 185+00 186+00 187+00 188+00

GSG CONSULTANTS, INC.
855 West Adams, Suite 200
Chicago, Illinois 60607
tel: 312.733.6262 • fax: 312.733.5612

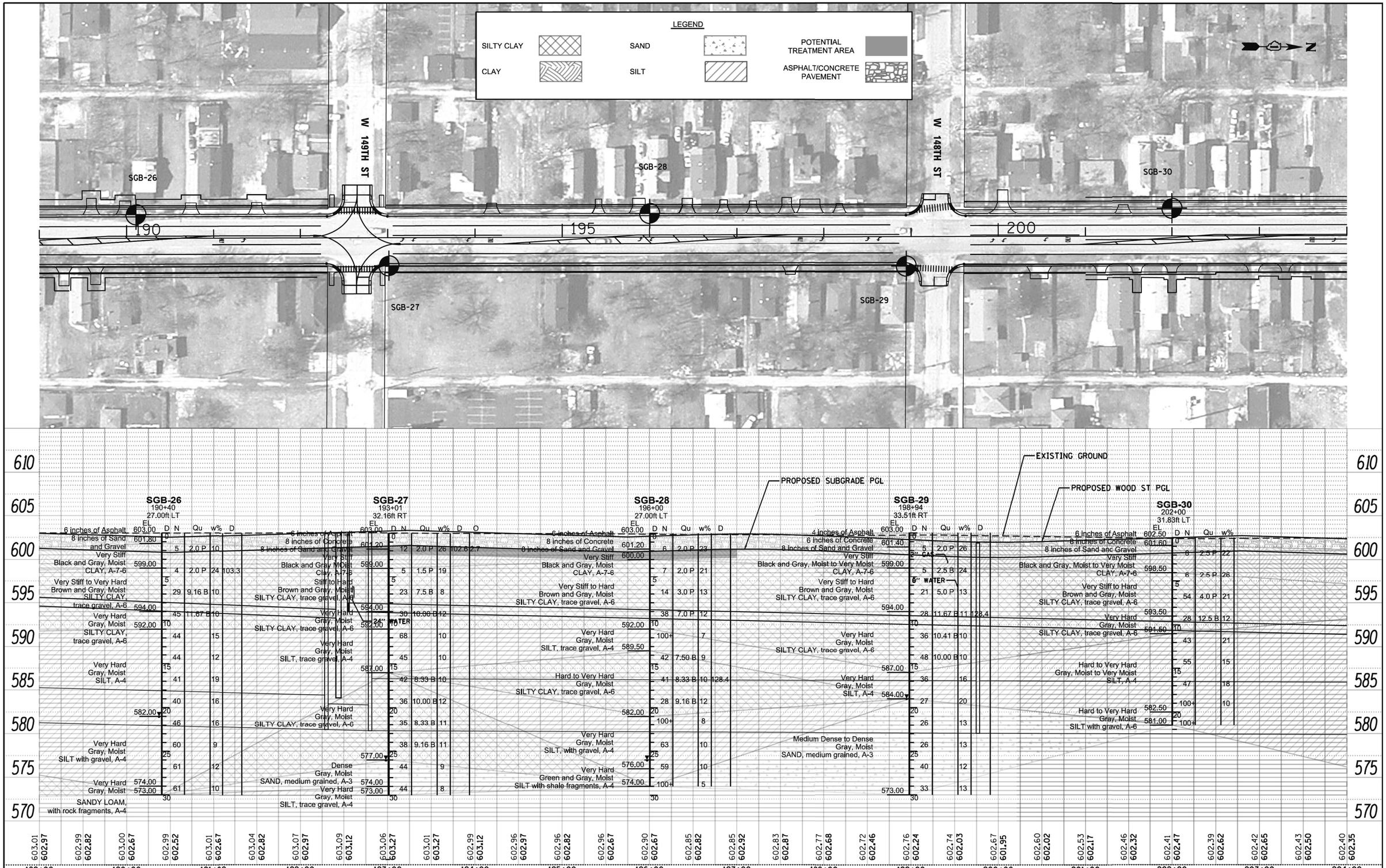
USER NAME = nelsbsh	DESIGNED - NE	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 1d00	CHECKED - KC	REVISED -	
PLOT DATE = 1/28/2016	DATE - 1/22/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOOD STREET/ASHLAND AVENUE
SOUTH OF US ROUTE 6 (159TH STREET) TO 138TH STREET
SOIL BORING PLAN & PROFILE

SCALE: 1"=50' | SHEET 5 OF 13 SHEETS | STA. 173+00 | TO STA. 188+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	388
		CONTRACT NO. 62P45		
		ILLINOIS FED. AID PROJECT		



PLAN
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RT. OF WAY CHECKED
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DATE

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CHKD
BY
DATE

GSG CONSULTANTS, INC.
855 West Adams, Suite 200
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tel: 312.733.6262 • fax: 312.733.5612

USER NAME = nelsbihi	DESIGNED - NE	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1:100	CHECKED - KC	REVISED -
PLOT DATE = 1/28/2016	DATE - 1/22/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

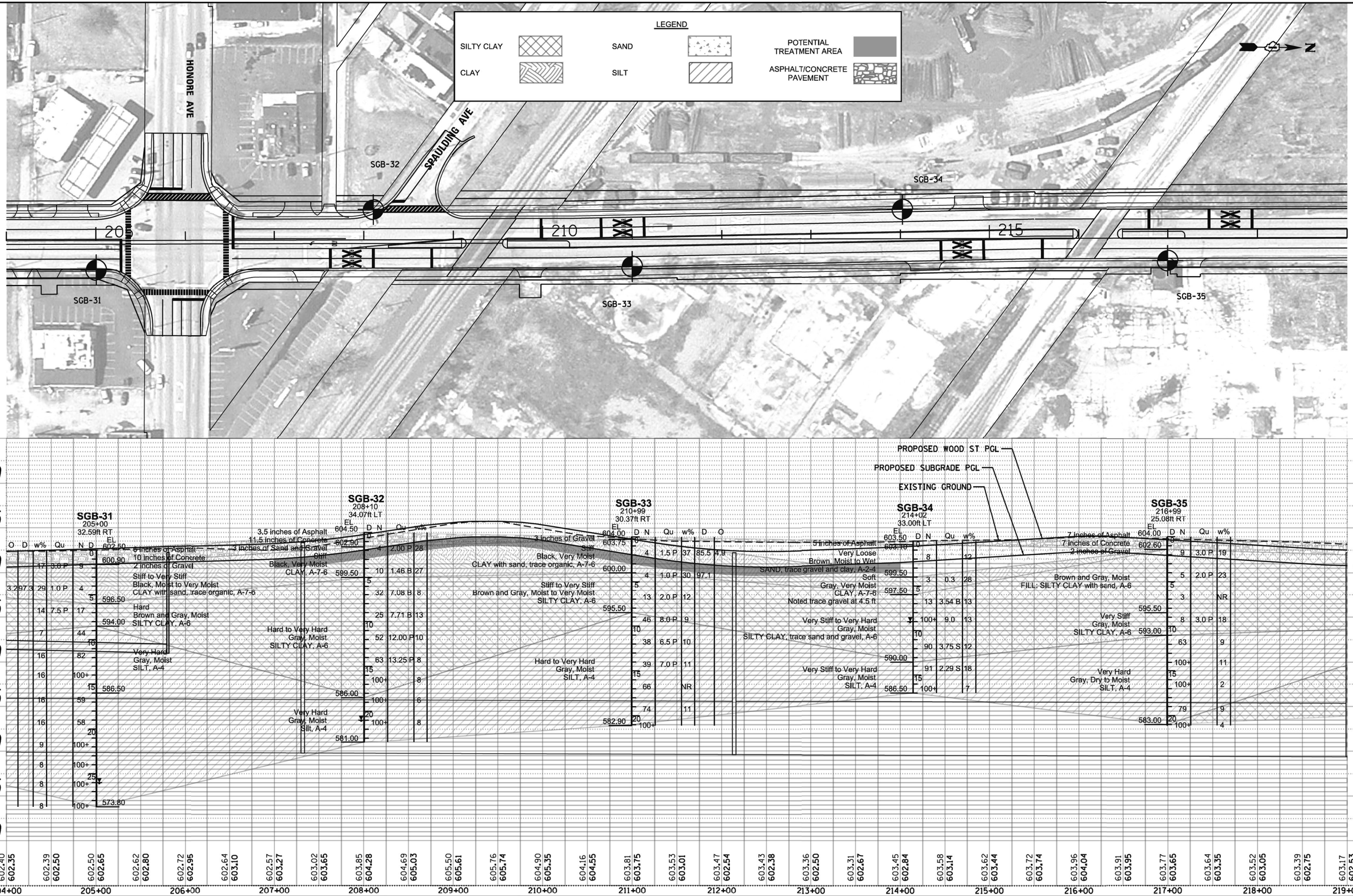
WOOD STREET/ASHLAND AVENUE
SOUTH OF US ROUTE 6 (159TH STREET) TO 138TH STREET
SOIL BORING PLAN & PROFILE

SCALE: 1"=50' | SHEET 6 OF 13 SHEETS | STA. 189+00 TO STA. 204+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	389

CONTRACT NO. 62P45

ILLINOIS FED. AID PROJECT



PLAN
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PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
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DATE

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USER NAME = nelsbihi	DESIGNED - NE	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 1:100	CHECKED - KC	REVISED -	
PLOT DATE = 1/28/2016	DATE - 1/22/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOOD STREET/ASHLAND AVENUE
SOUTH OF US ROUTE 6 (159TH STREET) TO 138TH STREET
SOIL BORING PLAN & PROFILE

SCALE: 1"=50' | SHEET 7 OF 13 SHEETS | STA. 204+00 TO STA. 219+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	390

CONTRACT NO. 62P45

ILLINOIS FED. AID PROJECT



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B.M. NOTED
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USER NAME = nelsbihi	DESIGNED - NE	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 1:100	CHECKED - KC	REVISED -	
PLOT DATE = 1/28/2016	DATE - 1/22/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

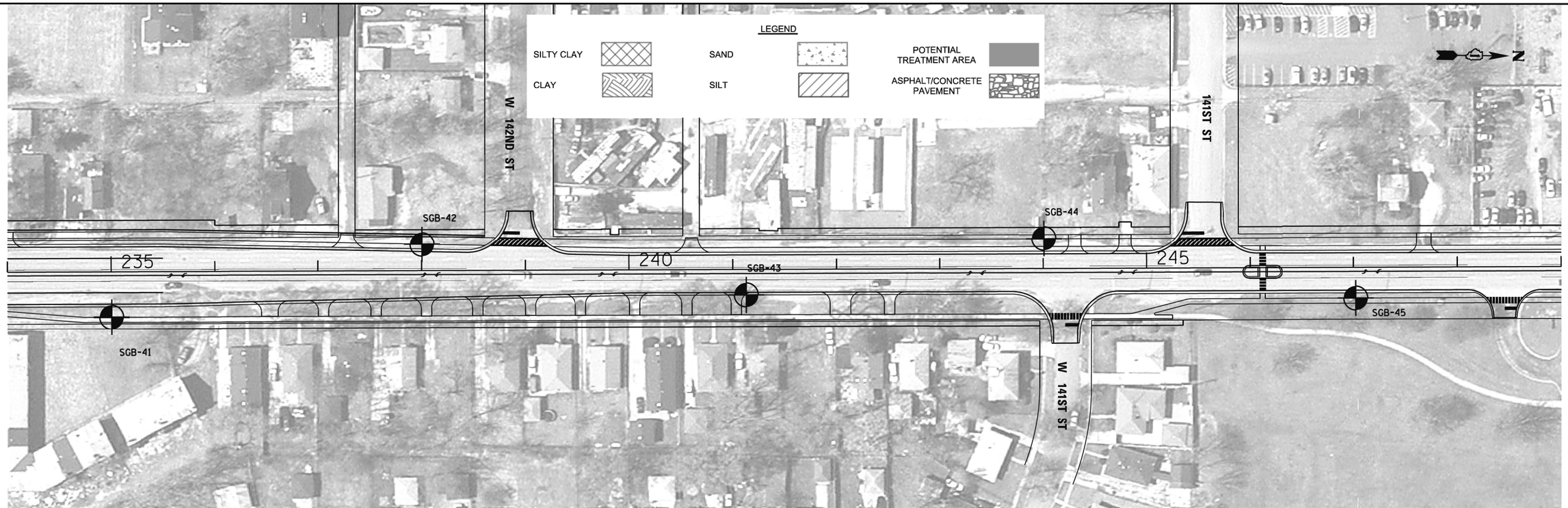
WOOD STREET/ASHLAND AVENUE
SOUTH OF US ROUTE 6 (159TH STREET) TO 138TH STREET
SOIL BORING PLAN & PROFILE

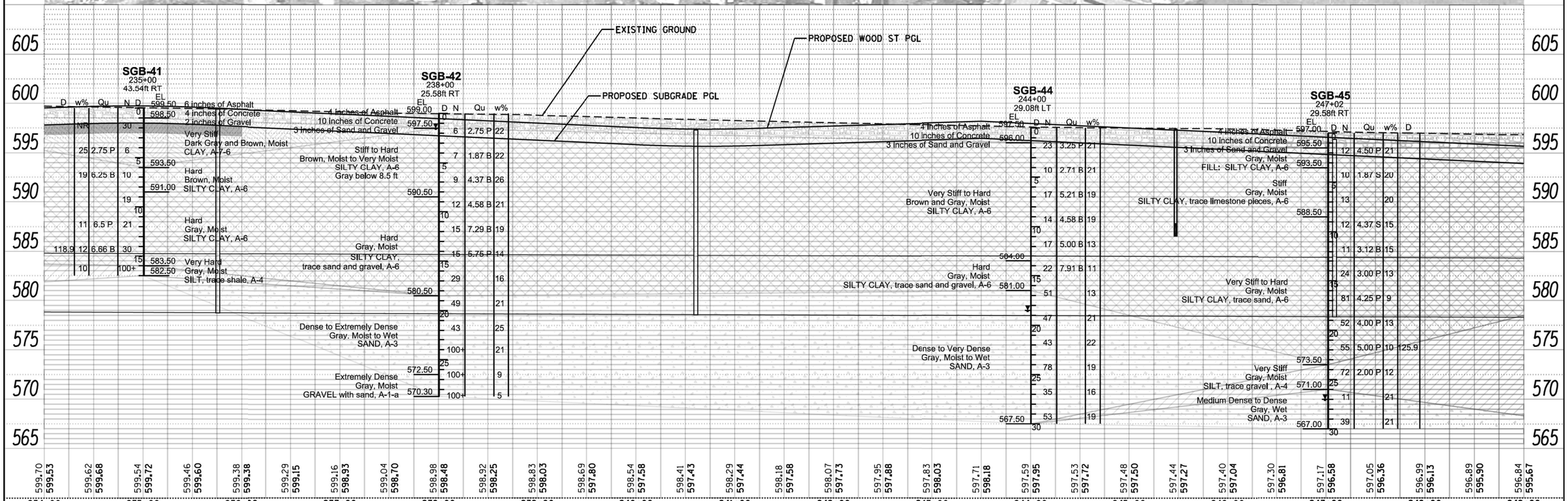
SCALE: 1"=50' | SHEET 8 OF 13 SHEETS | STA. 219+00 TO STA. 234+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	391

CONTRACT NO. 62P45

ILLINOIS FED. AID PROJECT





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RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
BY
DATE

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tel: 312.733.6262 • fax: 312.733.5612

USER NAME = nelsbihi	DESIGNED - NE	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 1:100	CHECKED - KC	REVISED -	
PLOT DATE = 1/28/2016	DATE - 1/22/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOOD STREET/ASHLAND AVENUE
SOUTH OF US ROUTE 6 (159TH STREET) TO 138TH STREET
SOIL BORING PLAN & PROFILE

SCALE: 1"=50' | SHEET 9 OF 13 SHEETS | STA. 234+00 TO STA. 249+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	392

CONTRACT NO. 62P45

ILLINOIS FED. AID PROJECT

PLAN

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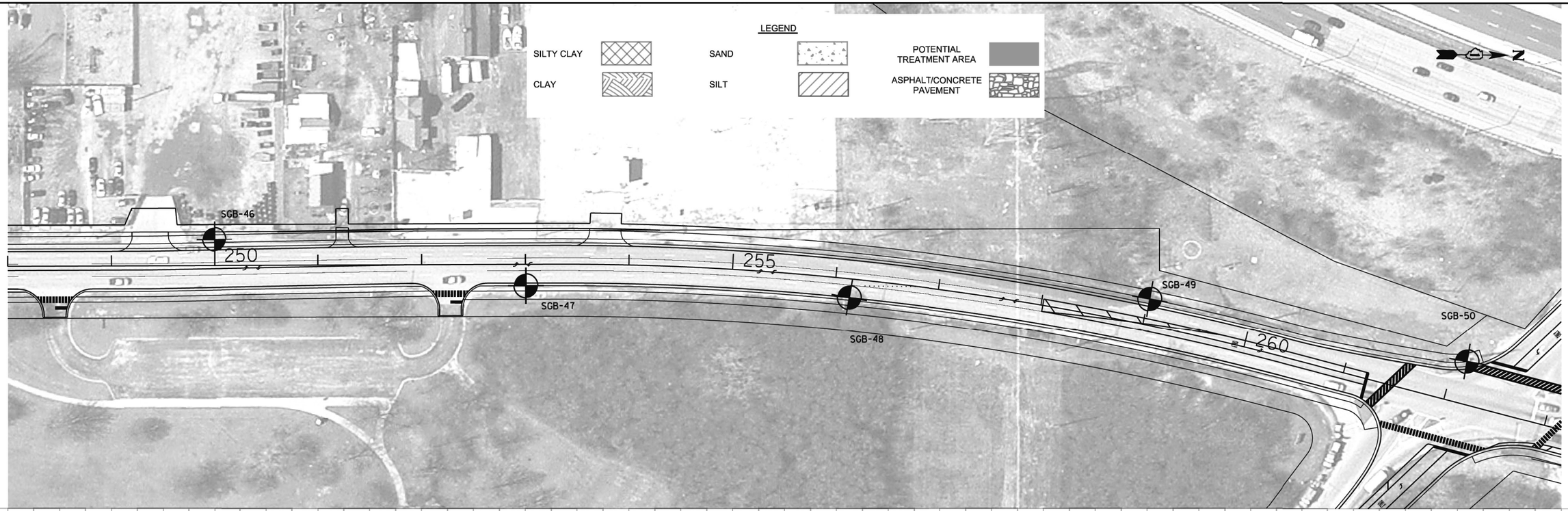

PROFILE

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		SURVEYED
		PLOTTED
		ALIGNMENT CHECKED
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		STRUCTURE NOTATIONS CHKD
		NOTE BOOK
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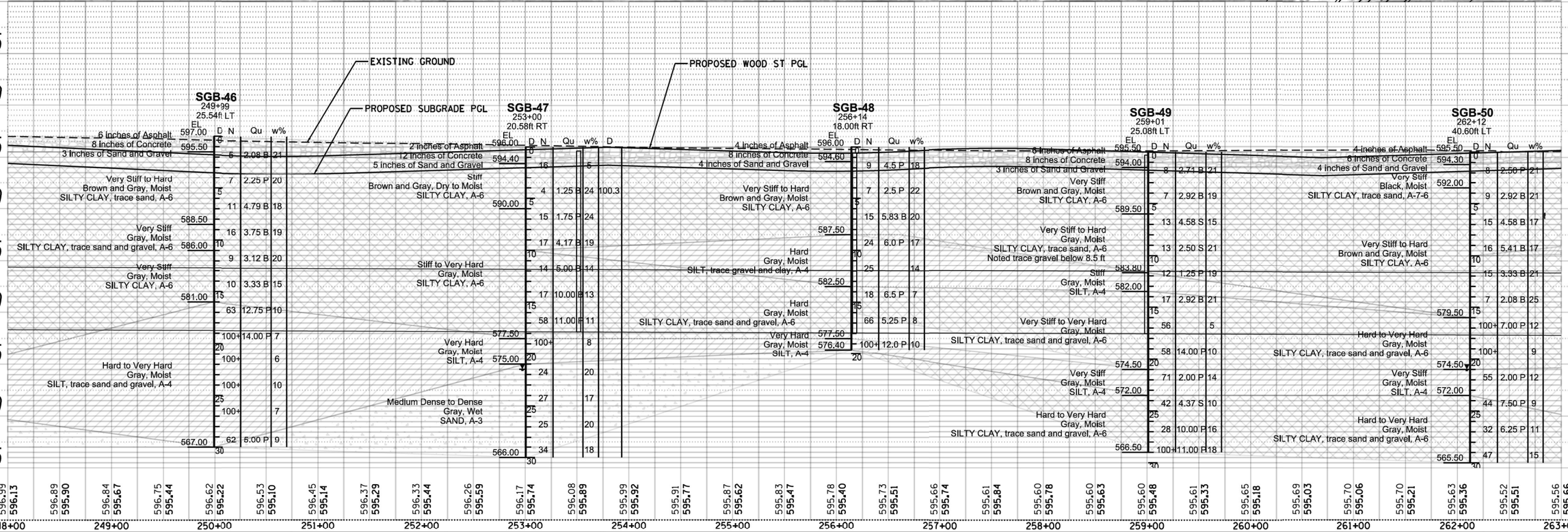


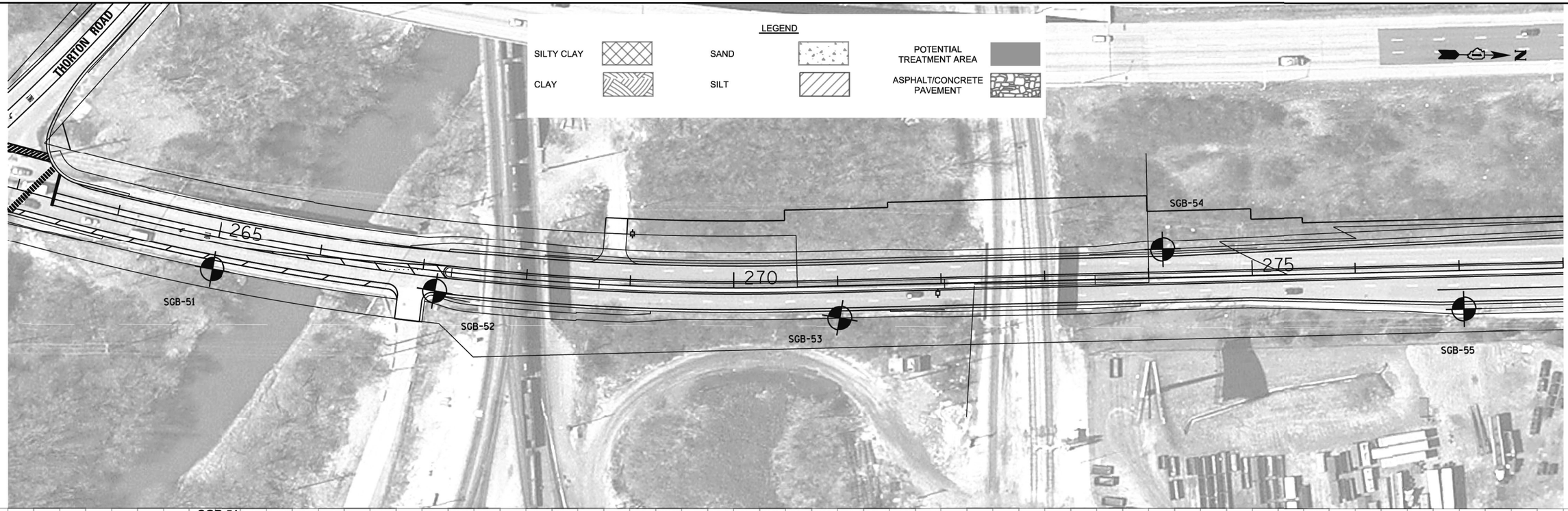
GSG CONSULTANTS, INC.	USER NAME = melsbsh	DESIGNED - NE	REVISED -
855 West Adams, Suite 200		DRAWN -	REVISED -
Chicago, Illinois 60607	PLOT SCALE = 1d00	CHECKED - KC	REVISED -
tel: 312.733.6262 • fax: 312.733.5612	PLOT DATE = 1/28/2016	DATE - 1/22/16	REVISED -

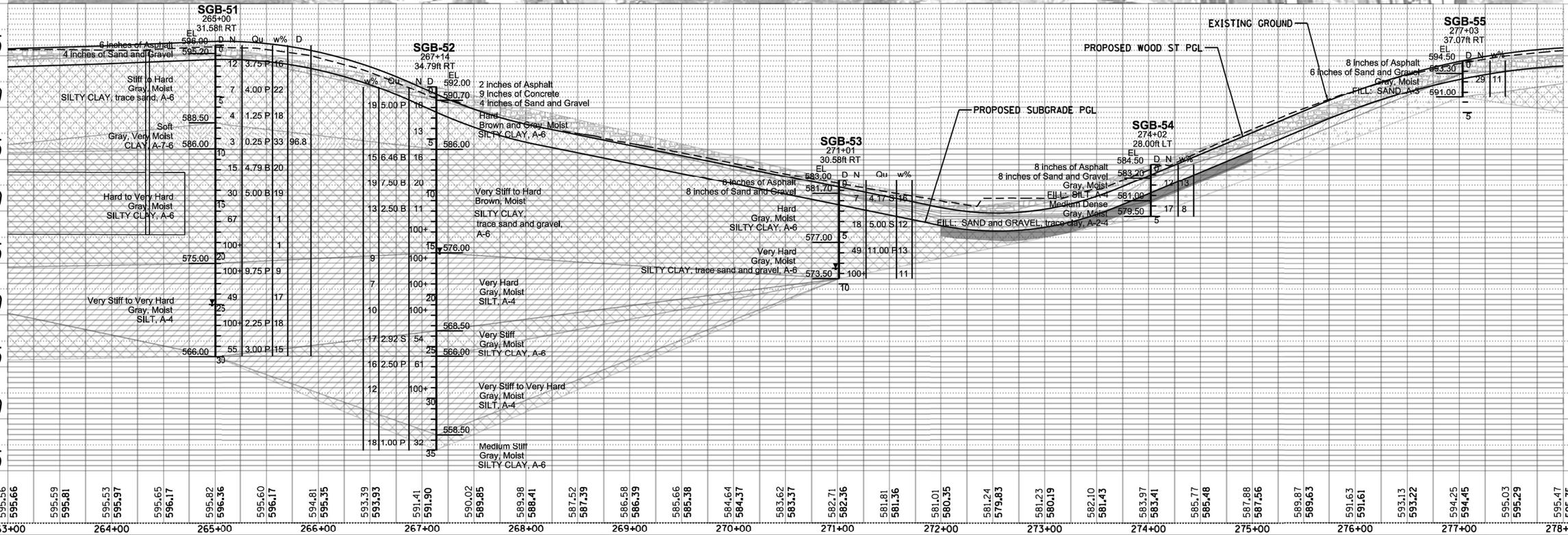
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOOD STREET/ASHLAND AVENUE
SOUTH OF US ROUTE 6 (159TH STREET) TO 138TH STREET
SOIL BORING PLAN & PROFILE

SCALE: 1"=50' | SHEET 10 OF 13 SHEETS | STA. 248+00 | TO STA. 263+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	393
		CONTRACT NO. 62P45		
		ILLINOIS FED. AID PROJECT		





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B.M. NOTED
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DATE

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tel: 312.733.6262 • fax: 312.733.5612

USER NAME = nelsbihi	DESIGNED - NE	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 1:100	CHECKED - KC	REVISED -	
PLOT DATE = 1/28/2016	DATE - 1/22/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

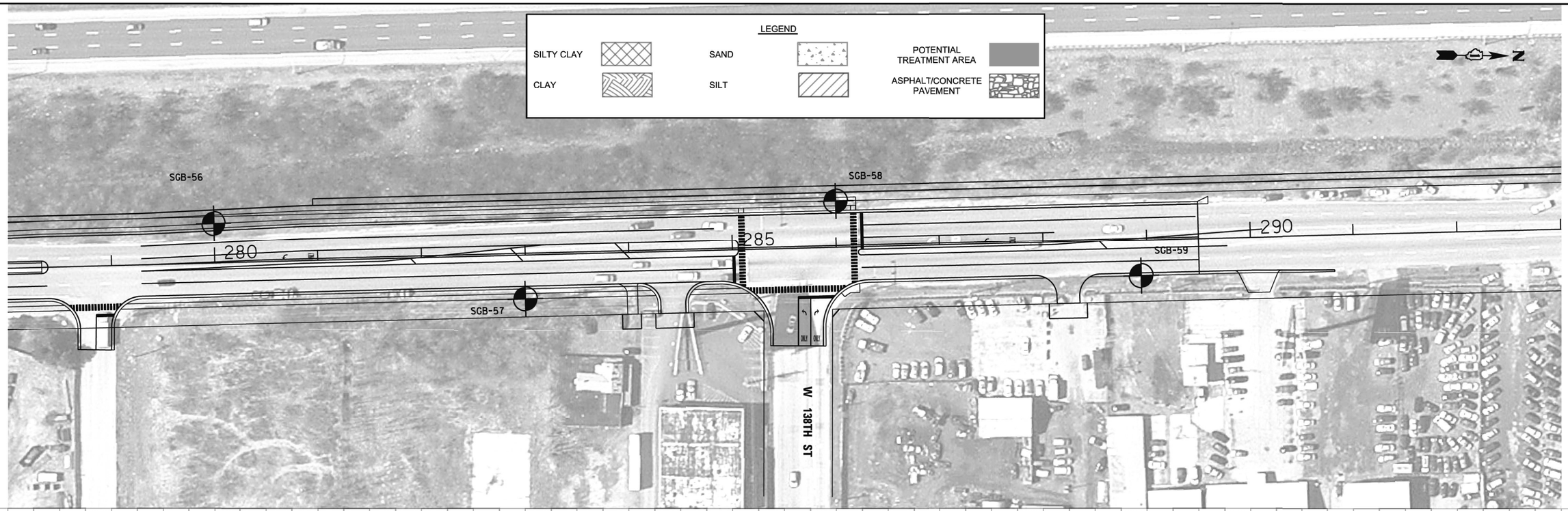
WOOD STREET/ASHLAND AVENUE
SOUTH OF US ROUTE 6 (159TH STREET) TO 138TH STREET
SOIL BORING PLAN & PROFILE

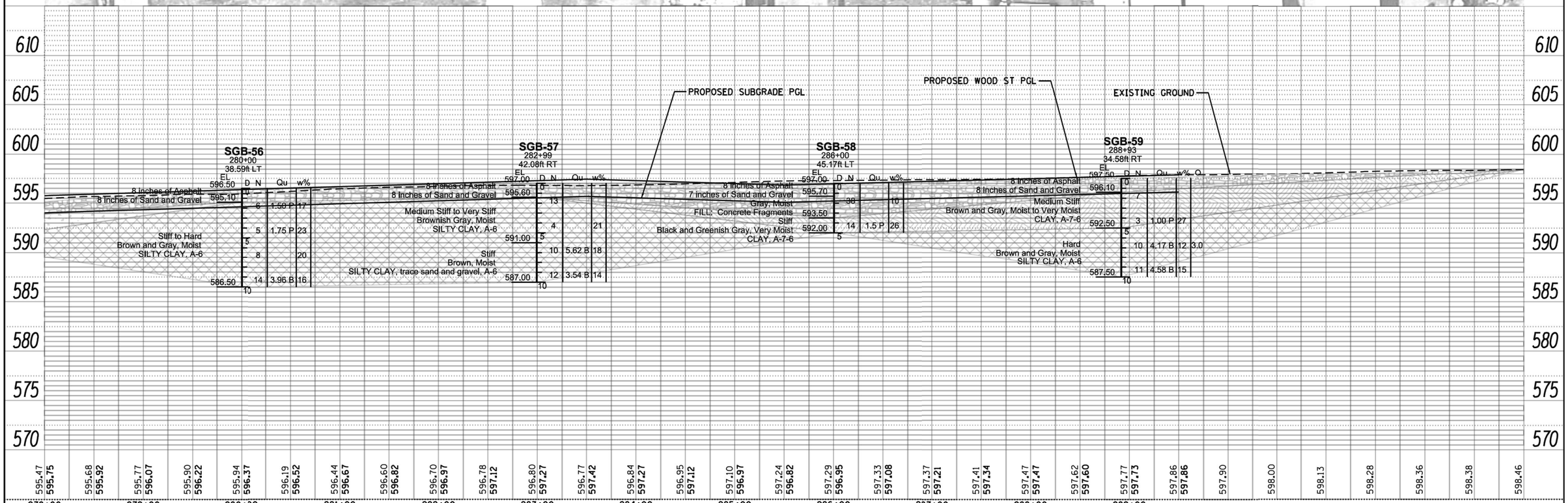
SCALE: 1"=50' | SHEET 11 OF 13 SHEETS | STA. 263+00 TO STA. 278+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	394

CONTRACT NO. 62P45

ILLINOIS FED. AID PROJECT





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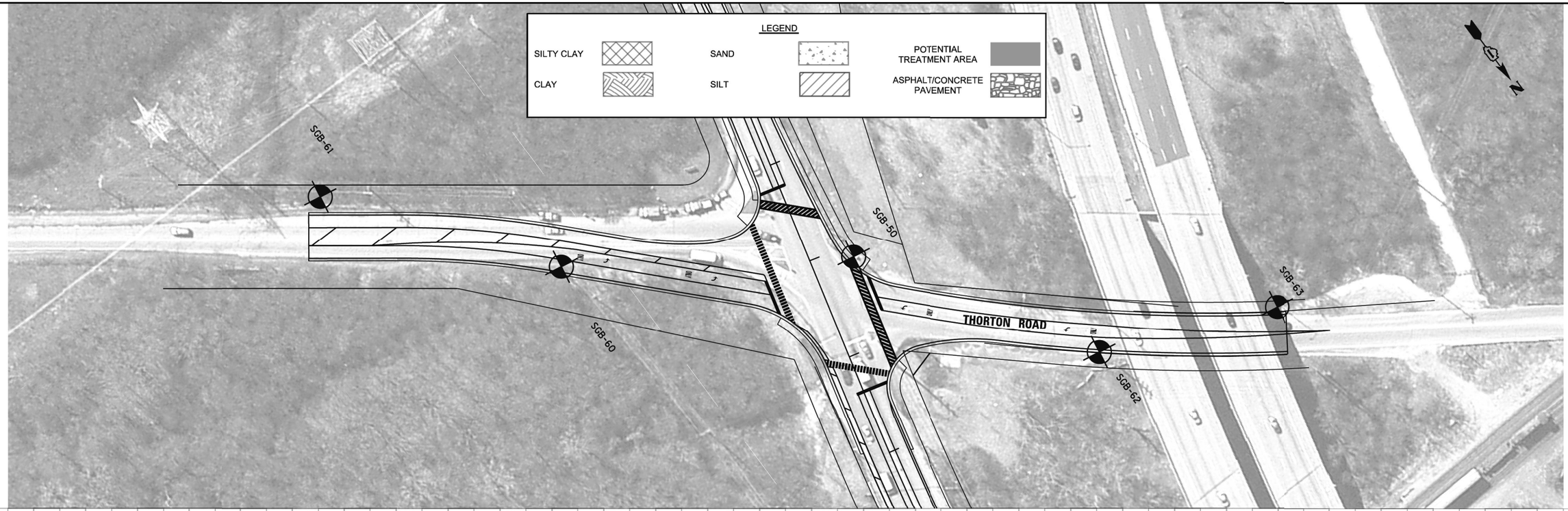
USER NAME = nelsbihi	DESIGNED - NE	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 1:100	CHECKED - KC	REVISED -	
PLOT DATE = 1/28/2016	DATE - 1/22/16	REVISED -	

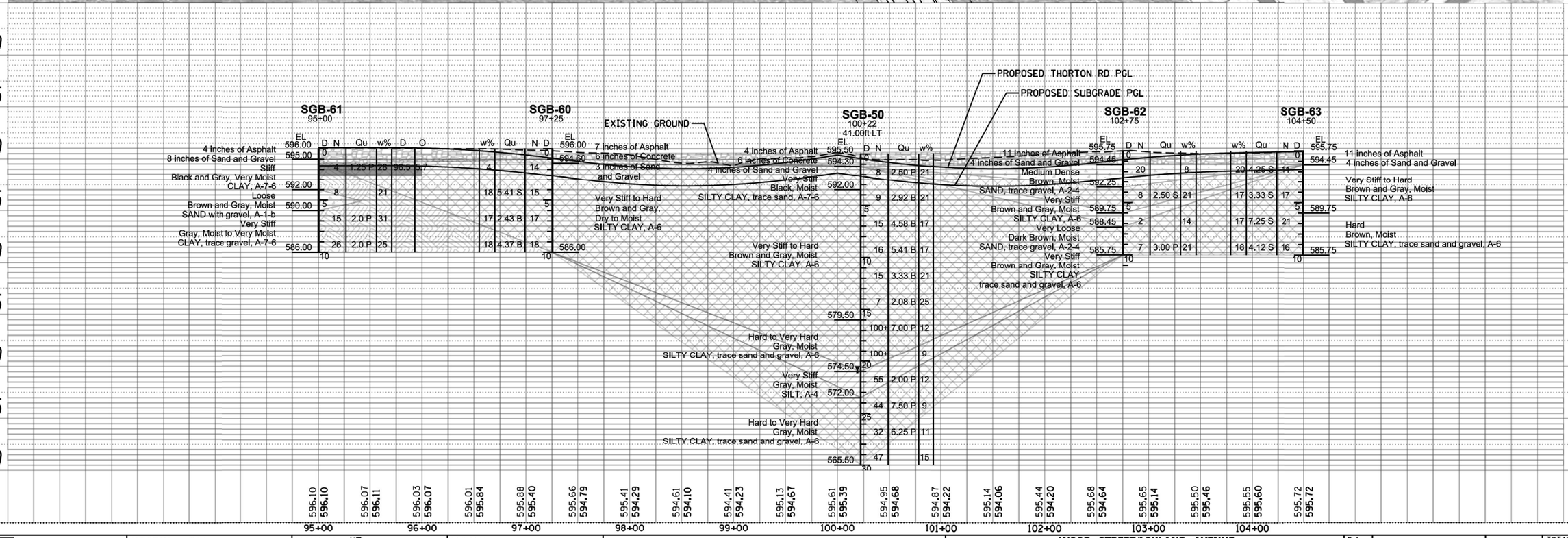
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WOOD STREET/ASHLAND AVENUE
SOUTH OF US ROUTE 6 (159TH STREET) TO 138TH STREET
SOIL BORING PLAN & PROFILE

SCALE: 1"=50' | SHEET 12 OF 13 SHEETS | STA. 278+00 TO STA. 293+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	395
		CONTRACT NO. 62P45		
		ILLINOIS FED. AID PROJECT		





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ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
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DATE

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
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DATE

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Chicago, Illinois 60607
tel: 312.733.6262 • fax: 312.733.5612

USER NAME = nelsbihi	DESIGNED - NE	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 1:100	CHECKED - KC	REVISED -	
PLOT DATE = 1/28/2016	DATE - 1/22/16	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

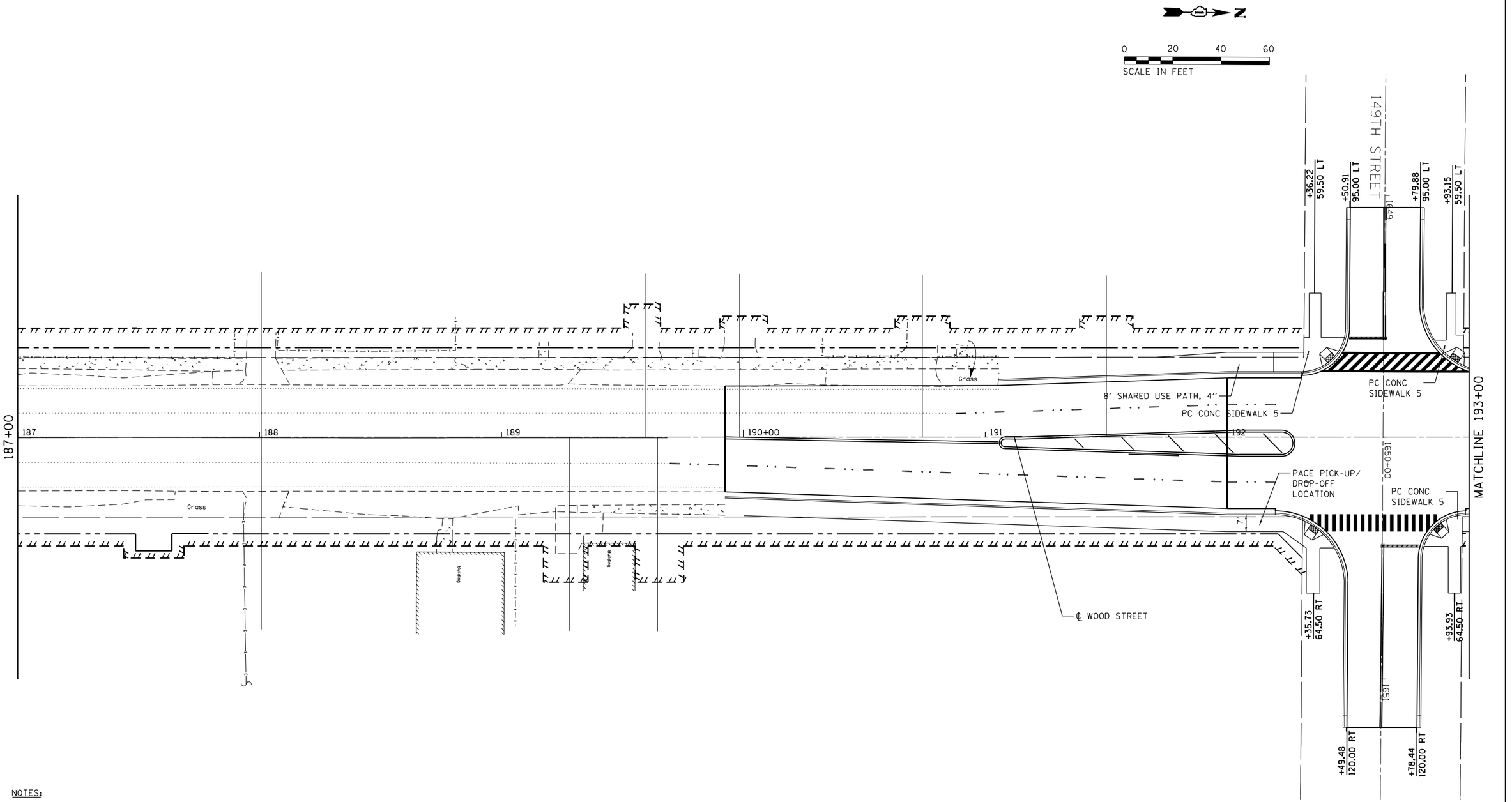
WOOD STREET/ASHLAND AVENUE
SOUTH OF US ROUTE 6 (159TH STREET) TO 138TH STREET
SOIL BORING PLAN & PROFILE

SCALE: 1"=50' | SHEET 13 OF 13 SHEETS | STA. 95+00 TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	396

CONTRACT NO. 62P45

ILLINOIS FED. AID PROJECT



NOTES:

1. PARKWAY WIDTHS ARE SHOWN FROM FACE OF CURB.
2. PACE BUS PADS WILL BE PAID FOR AS SIDEWALK 5 INCH.
3. SEE TYPICAL SECTION FOR SIDEWALK, SHARED-USE PATH, AND DRIVEWAY PAVEMENT SECTION.

DETAIL LEGEND

- HMA SHARED-USE PATH
- PCC SIDEWALK, 8"
- PCC SIDEWALK, 10"

USER NAME = APatterson	DESIGNED - AGL	REVISED -
	DRAWN - AGL	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - AJP	REVISED -
PLOT DATE = 12/3/2021	DATE - 09/27/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY AND SIDEWALK DETAILS
WOOD STREET/ASHLAND AVENUE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	397
		CONTRACT NO. 62P45		
	ILLINOIS	FED. AID PROJECT		

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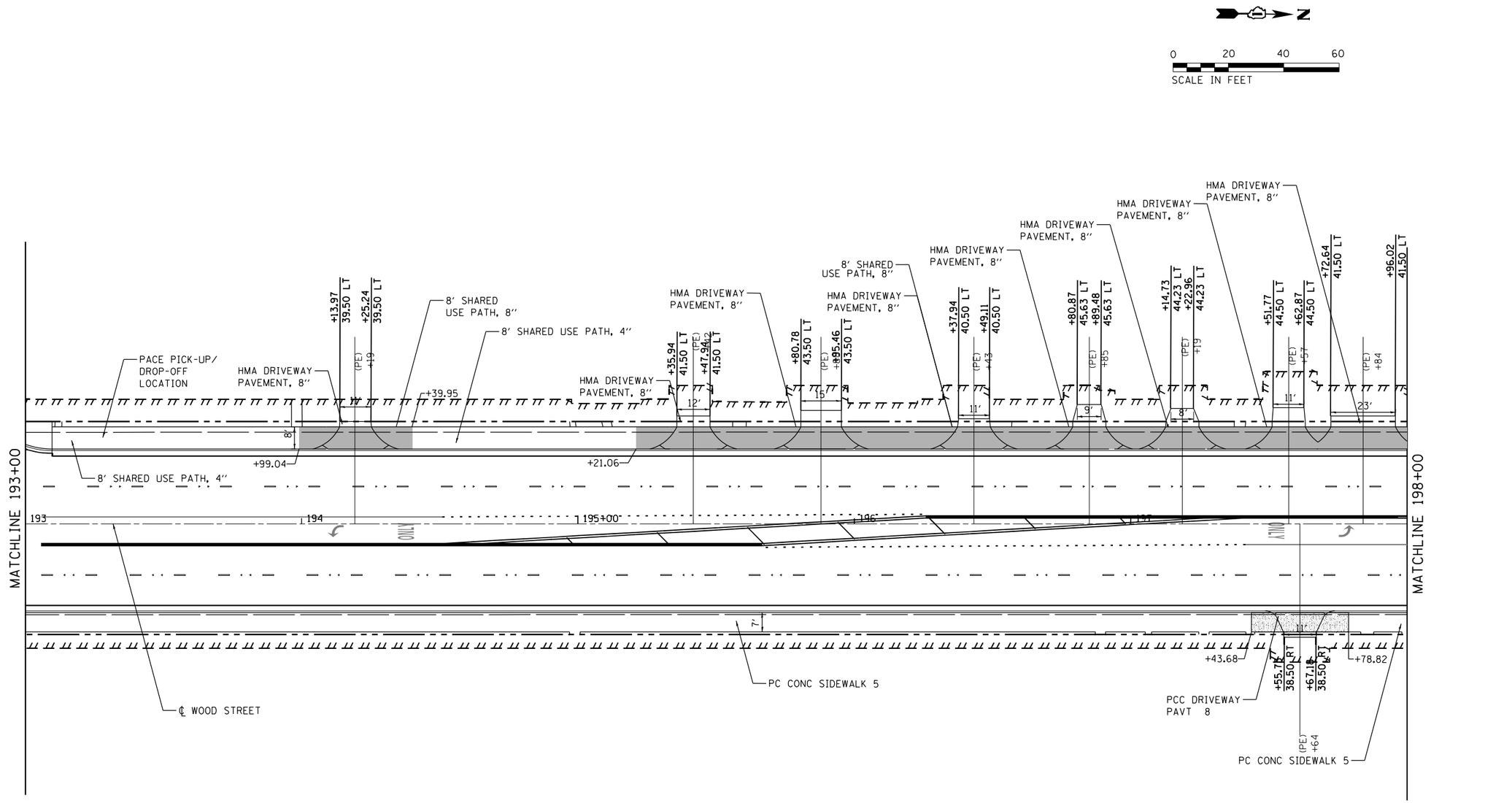

DETAIL LEGEND

- HMA SHARED-USE PATH
- PCC SIDEWALK, 8''
- PCC SIDEWALK, 10''

NOTES:

1. PARKWAY WIDTHS ARE SHOWN FROM FACE OF CURB.
2. PACE BUS PADS WILL BE PAID FOR AS SIDEWALK 5 INCH.
3. SEE TYPICAL SECTION FOR SIDEWALK, SHARED-USE PATH, AND DRIVEWAY PAVEMENT SECTION.

USER NAME = APatterson	DESIGNED - AGL	REVISED -
	DRAWN - AGL	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - AJP	REVISED -
PLOT DATE = 12/3/2021	DATE - 09/27/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY AND SIDEWALK DETAILS
WOOD STREET/ASHLAND AVENUE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	398
		CONTRACT NO. 62P45		
	ILLINOIS	FED. AID PROJECT		

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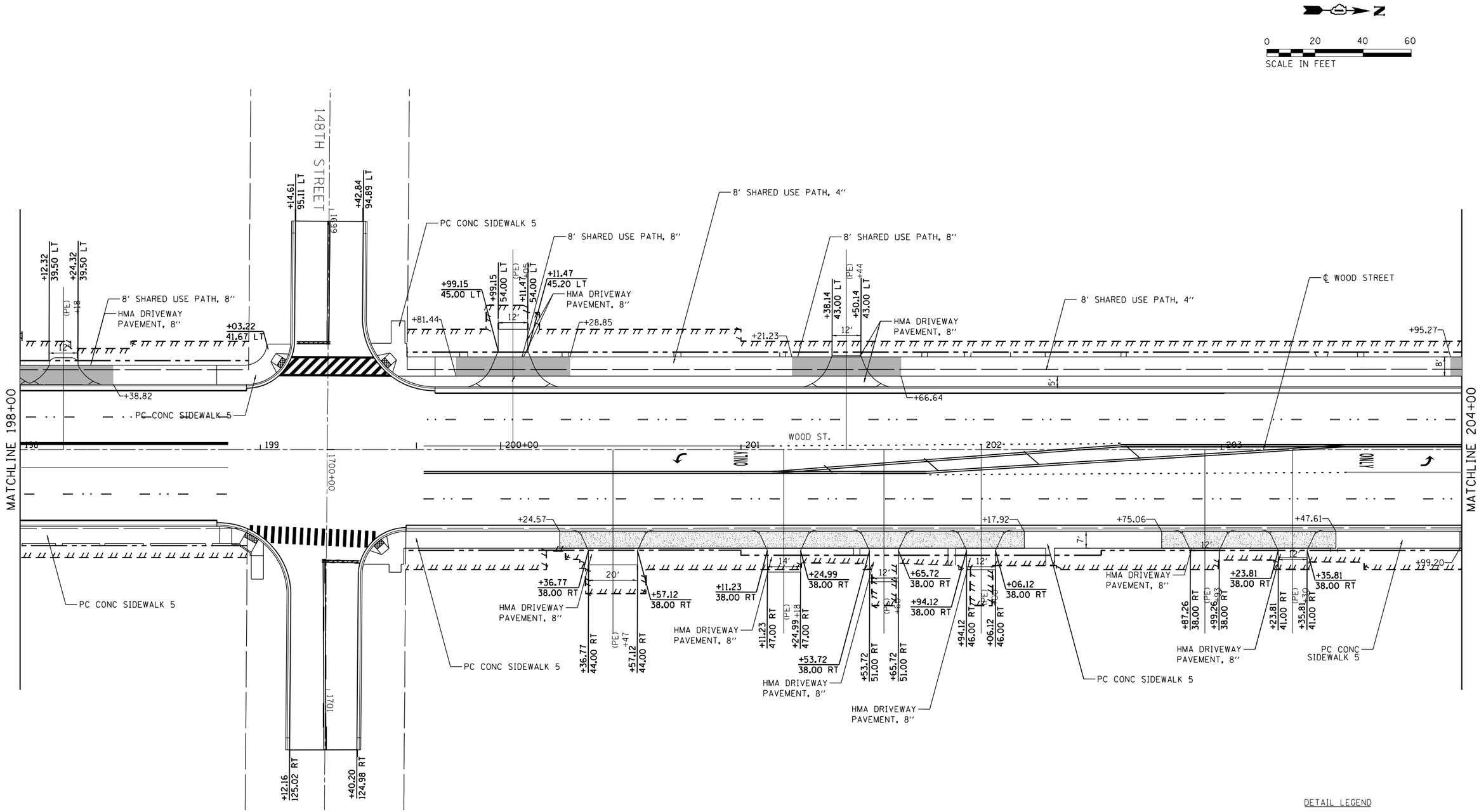

NOTES:

1. PARKWAY WIDTHS ARE SHOWN FROM FACE OF CURB.
2. PACE BUS PADS WILL BE PAID FOR AS SIDEWALK 5 INCH.
3. SEE TYPICAL SECTION FOR SIDEWALK, SHARED-USE PATH, AND DRIVEWAY PAVEMENT SECTION.

DETAIL LEGEND

- HMA SHARED-USE PATH
- PCC SIDEWALK, 8''
- PCC SIDEWALK, 10''

USER NAME = APatterson	DESIGNED - AGL	REVISED -	
	DRAWN - AGL	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - AJP	REVISED -	
PLOT DATE = 12/3/2021	DATE - 09/27/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY AND SIDEWALK DETAILS
WOOD STREET/ASHLAND AVENUE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	399
		CONTRACT NO. 62P45		
		ILLINOIS FED. AID PROJECT		

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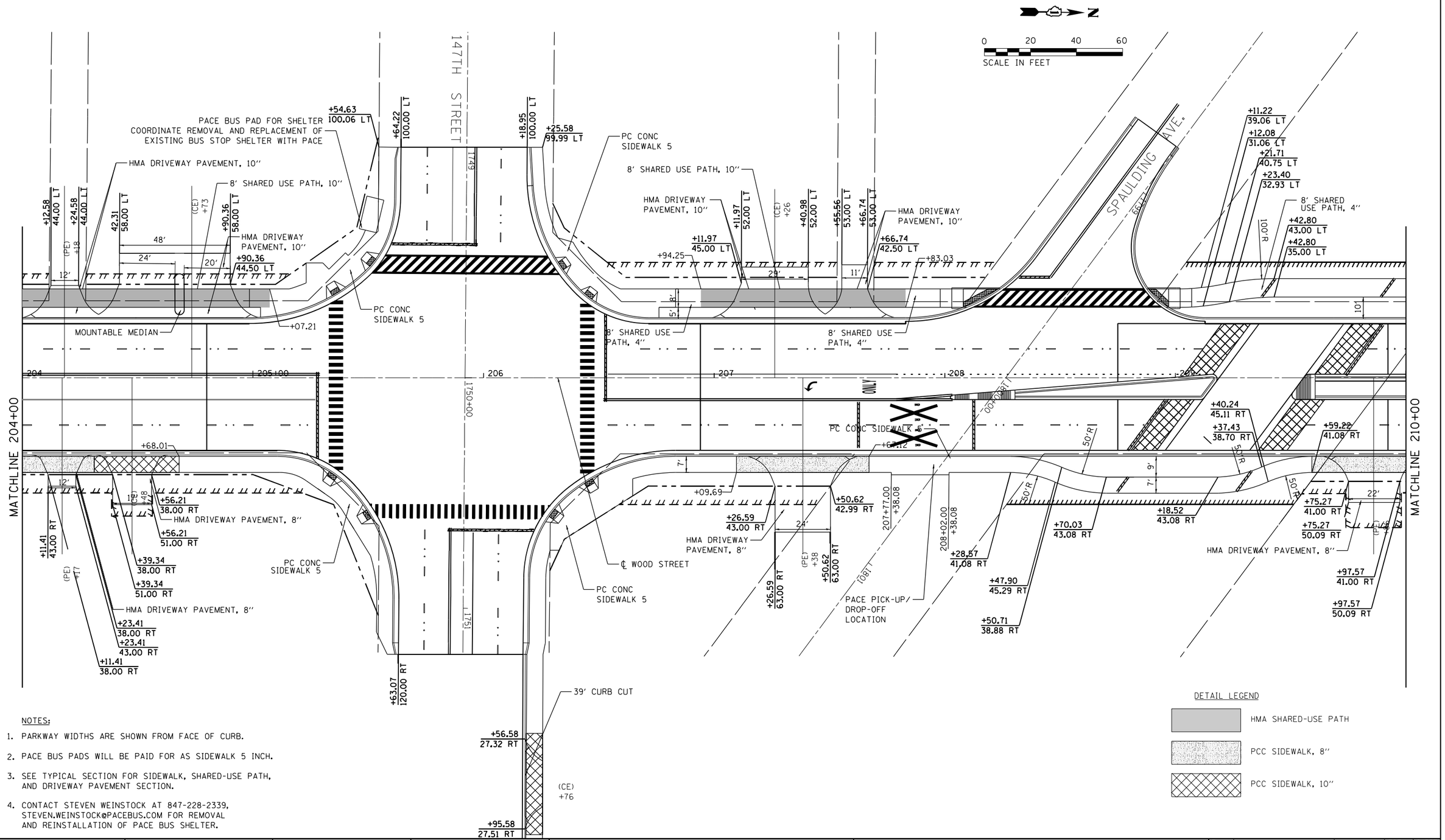

NOTES:

1. PARKWAY WIDTHS ARE SHOWN FROM FACE OF CURB.
2. PACE BUS PADS WILL BE PAID FOR AS SIDEWALK 5 INCH.
3. SEE TYPICAL SECTION FOR SIDEWALK, SHARED-USE PATH, AND DRIVEWAY PAVEMENT SECTION.
4. CONTACT STEVEN WEINSTOCK AT 847-228-2339, STEVEN.WEINSTOCK@PACEBUS.COM FOR REMOVAL AND REINSTALLATION OF PACE BUS SHELTER.

USER NAME = APatterson	DESIGNED - AGL	REVISED -
	DRAWN - AGL	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - AJP	REVISED -
PLOT DATE = 12/3/2021	DATE - 09/27/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY AND SIDEWALK DETAILS
WOOD STREET/ASHLAND AVENUE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2857	2021-118-R	COOK	557	400
		CONTRACT NO. 62P45		
	ILLINOIS FED. AID PROJECT			

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