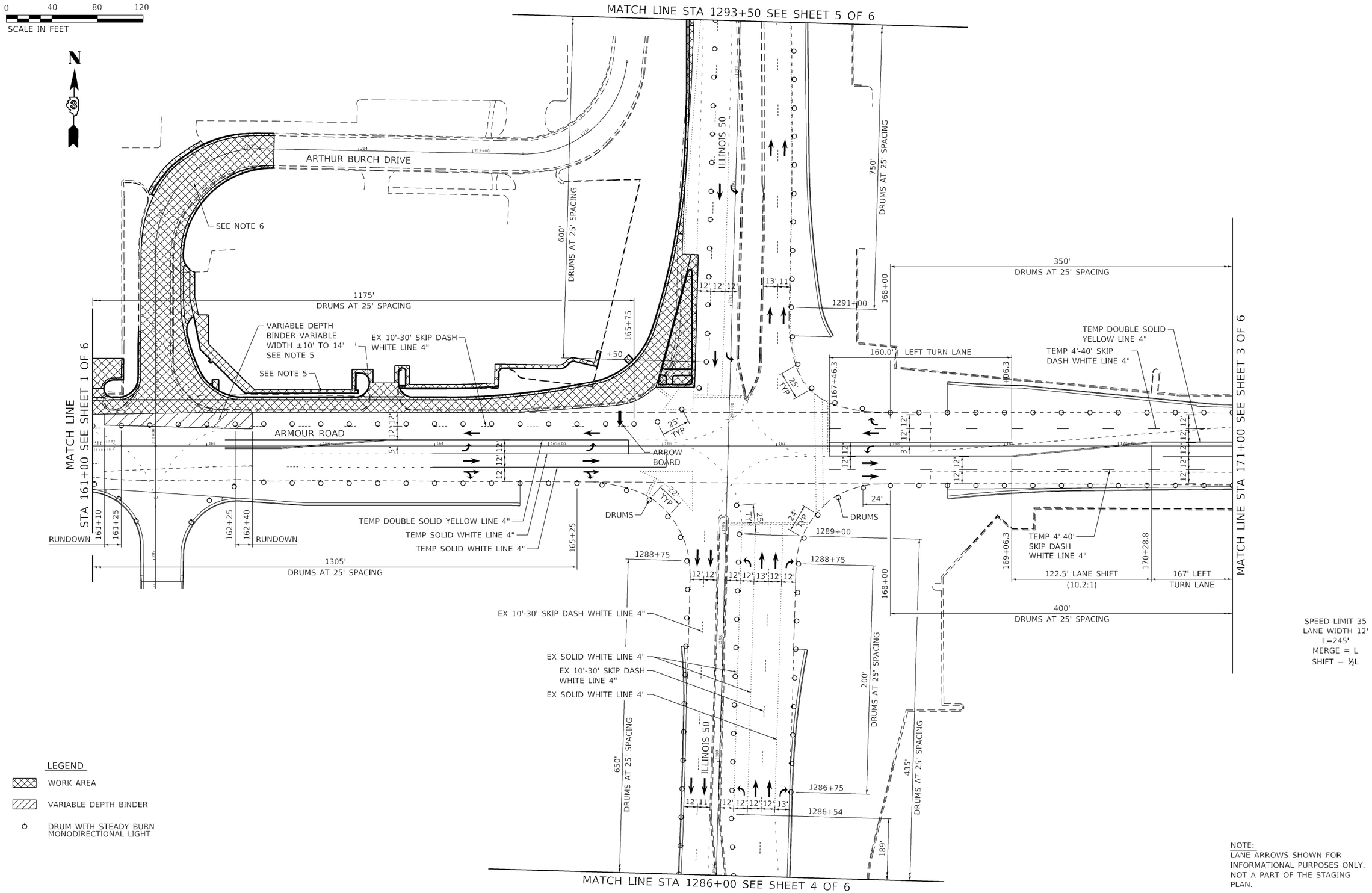


SPEED LIMIT 35
LANE WIDTH 12'
L=245'
MERGE = L
SHIFT = ½L

LEGEND

- WORK AREA
- VARIABLE DEPTH BINDER
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT

NOTE:
LANE ARROWS SHOWN FOR INFORMATIONAL PURPOSES ONLY. NOT A PART OF THE STAGING PLAN.

MODEL: 201_MOT_Sheet02
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-MOT04.dgn

Kaskaskia Engineering Group, LLC
200 E. Main St., Suite 100 Belleville, Illinois 62220 618.233.5977 phone 618.233.5977 fax www.kaskaskiaeng.com
PROFESSIONAL SIGNATURE LICENSE NO.
Illinois Professional Design Firm 184.004773
Professional Engineering Group 20-5000186

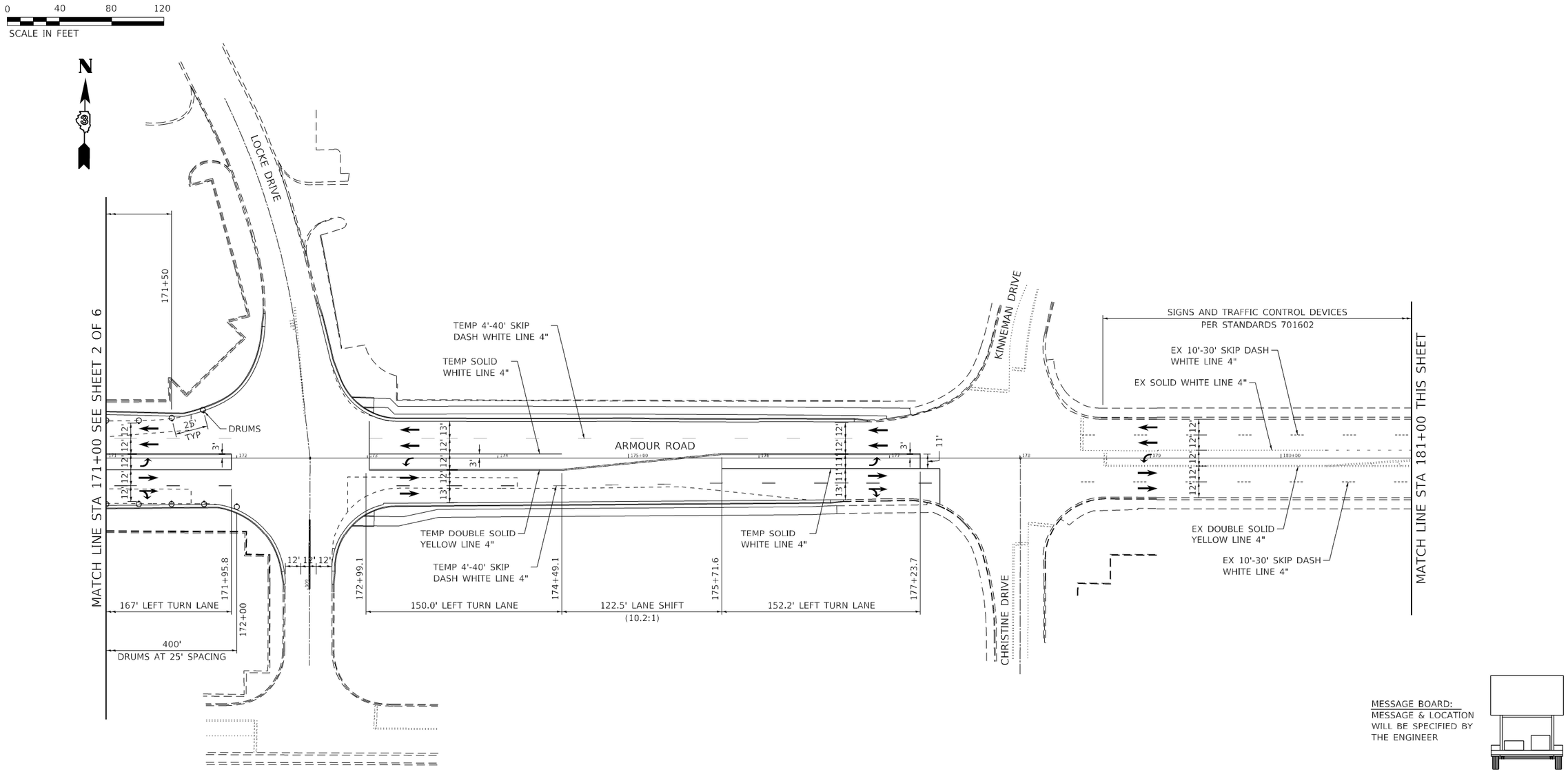
USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 4
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 40' | SHEET 2 OF 6 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	201
		CONTRACT NO. 66957		
		ILLINOIS FED. AID PROJECT		



LEGEND

- WORK AREA
- VARIABLE DEPTH BINDER
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT

NOTE:
LANE ARROWS SHOWN FOR INFORMATIONAL PURPOSES ONLY. NOT A PART OF THE STAGING PLAN.

MODEL: 202_MOT_Sheet03
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-MOT04.dgn

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Belleville, Illinois 62220
618.433.5877 phone
618.433.5977 fax
www.kaskaskiaeng.com
PROFESSIONAL REGISTRATIONS
Illinois Professional Design Firm
Professional Engineering Group
LICENSE NO.
184.005773
20-5000186

USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

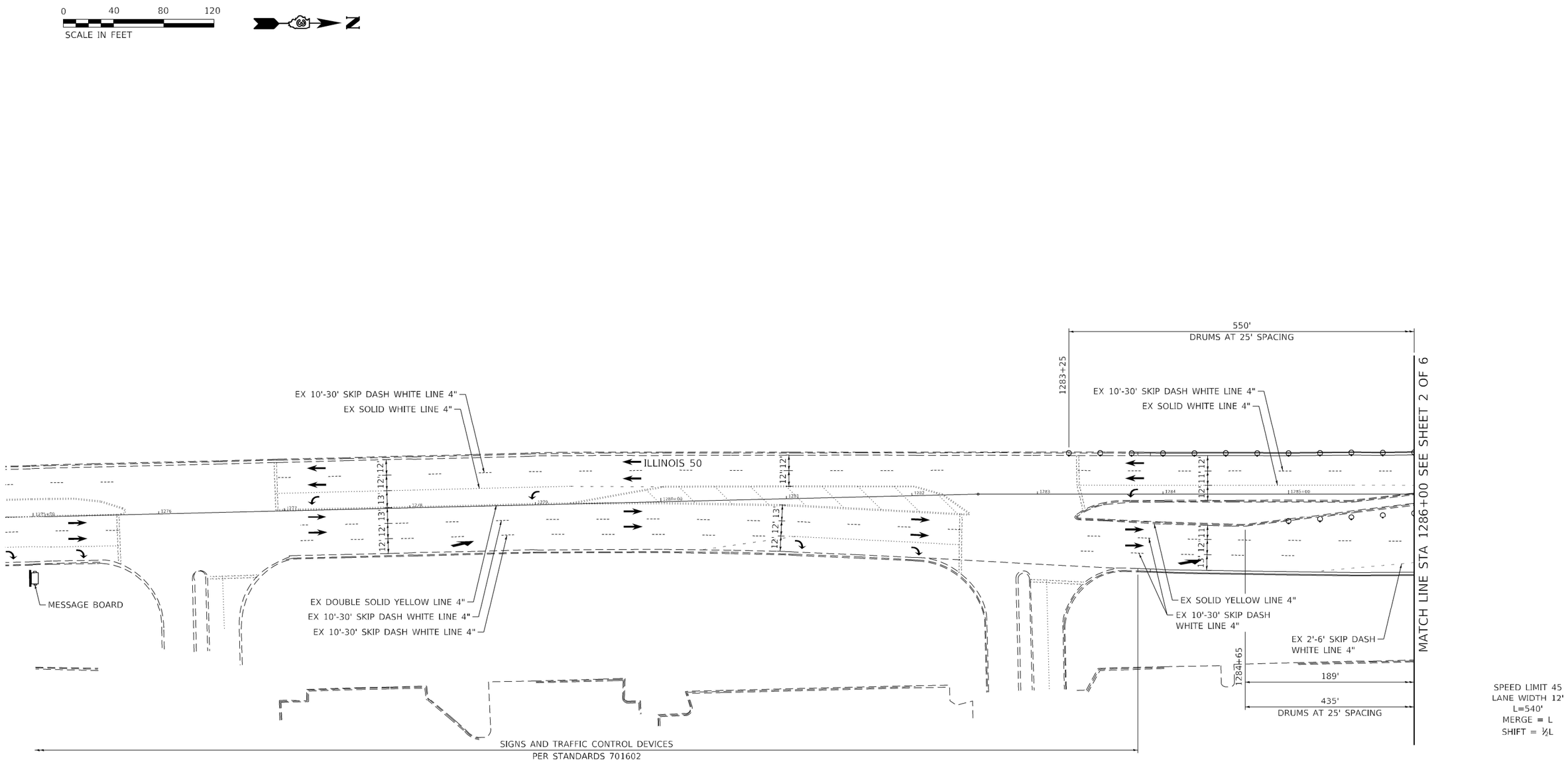
MAINTENANCE OF TRAFFIC – STAGE 4
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 40' | SHEET 3 OF 6 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	202

CONTRACT NO. 66957

ILLINOIS | FED. AID PROJECT

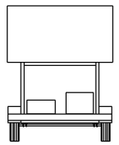


LEGEND

WORK AREA

VARIABLE DEPTH BINDER

DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT



MESSAGE BOARD:
MESSAGE & LOCATION WILL BE SPECIFIED BY THE ENGINEER

NOTE:
LANE ARROWS SHOWN FOR INFORMATIONAL PURPOSES ONLY. NOT A PART OF THE STAGING PLAN.

MODEL: 203_MOT_Sheet04
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Belleville, Illinois 62220
618.233.5977 phone
618.233.5977 fax
www.kaskaskiaeng.com
PROFESSIONAL SERVICES AGENCY
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Professional Engineering Group
LICENSE NO.
184.004773
20-5000185

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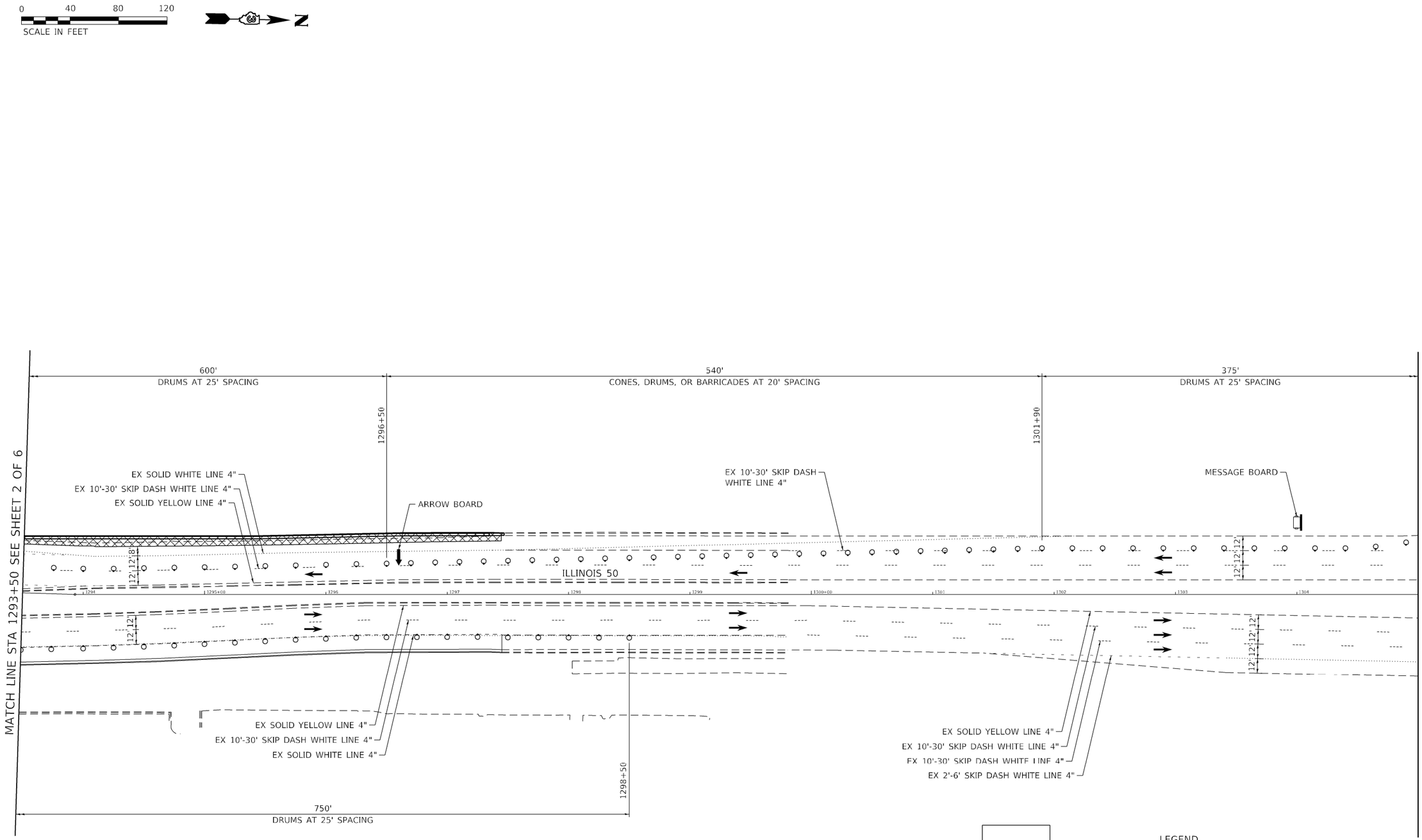
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

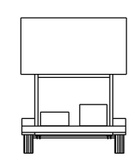
MAINTENANCE OF TRAFFIC – STAGE 4
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 40' | SHEET 4 OF 6 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	203
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



MESSAGE BOARD:
MESSAGE & LOCATION WILL BE SPECIFIED BY THE ENGINEER



LEGEND

- WORK AREA
- VARIABLE DEPTH BINDER
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT

NOTE:
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MODEL: 204_MOT_Sheet05
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-MOT04.dgn

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Illinois Professional Design Firm
Professional Engineering Group

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	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 4
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 40' | SHEET 5 OF 6 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	204
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	

0 40 80 120
SCALE IN FEET

MATCH LINE STA 1305+00 SEE SHEET 5 OF 6

375' DRUMS
AT 25' SPACING

150'
DRUMS AT 25' SPACING

540'
CONES, DRUMS, OR BARRICADES AT 20' SPACING

165'

SIGNS AND TRAFFIC CONTROL DEVICES
PER STANDARDS 701602

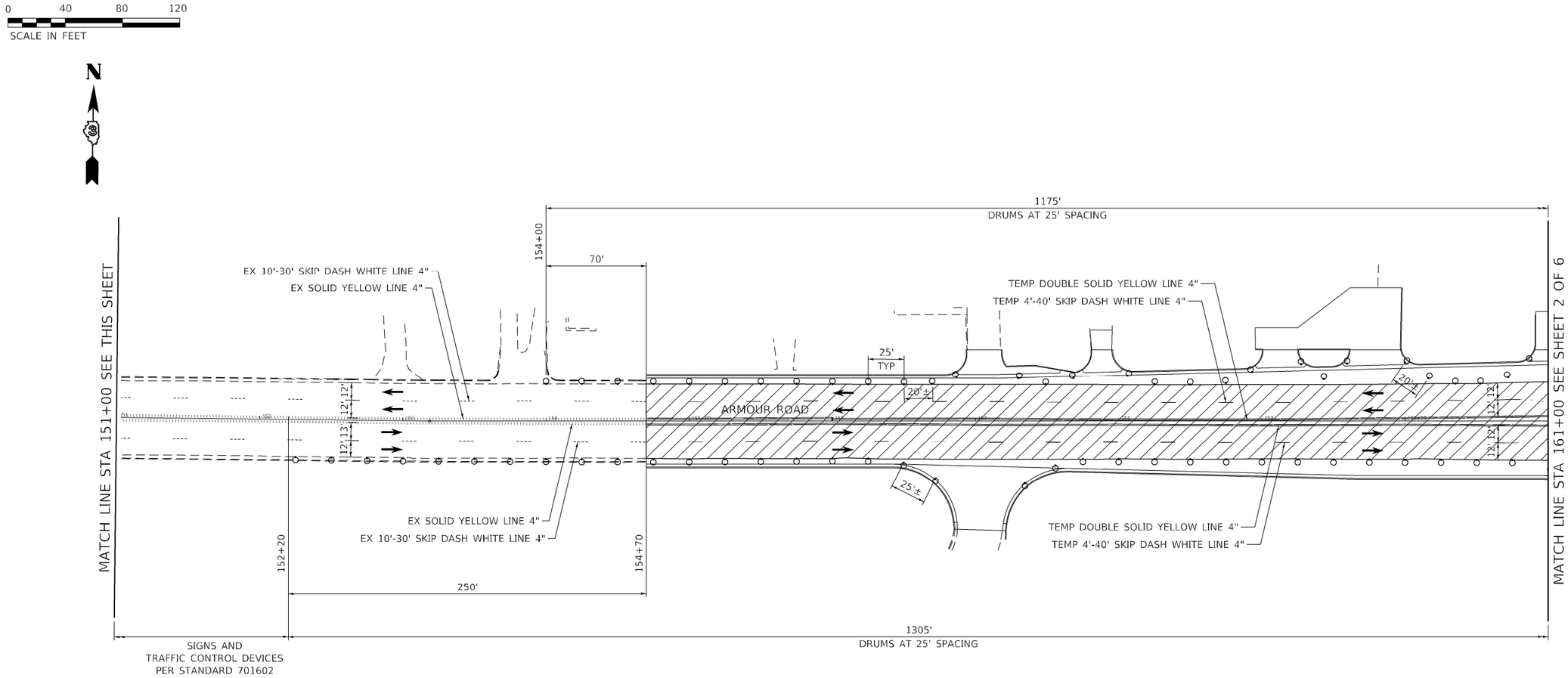
1305+65 | 1306+75 | 1308+25 | 1313+65 | 1315+30

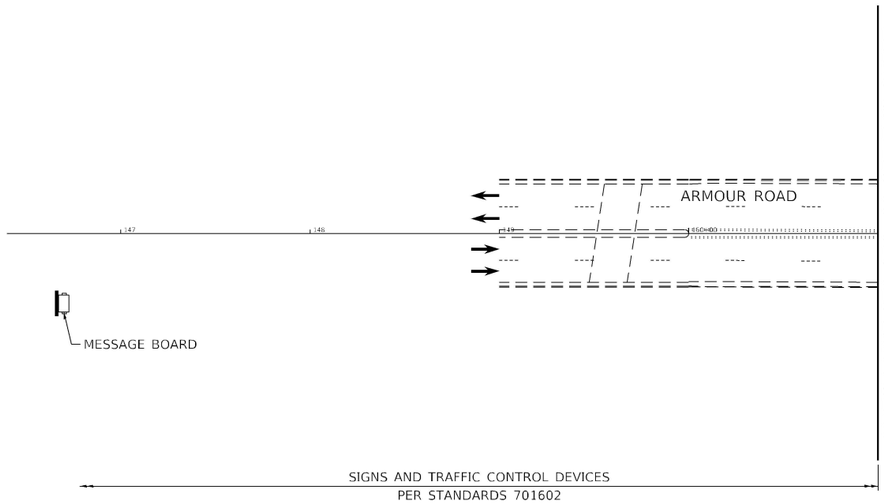
RAMP

ARROW BOARD
EX SOLID WHITE LINE 4"
EX SOLID WHITE LINE 4"
EX 10'-30' SKIP DASH WHITE LINE 4"
EX 10'-30' SKIP DASH WHITE LINE 4"

ILLINOIS 50

12' 12' 12'

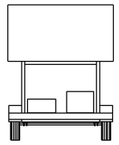




SPEED LIMIT 40
LANE WIDTH 12'
L=320'
MERGE = L
SHIFT = ½L

LEGEND

- WORK AREA
- VARIABLE DEPTH BINDER AND COLD MILLING
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT



MESSAGE BOARD:
MESSAGE & LOCATION
WILL BE SPECIFIED BY
THE ENGINEER

NOTE:
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MODEL: 206_MOT_Sheet01
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-MOT05.dgn

Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS
Illinois Professional Design Firm
Professional Engineering Group

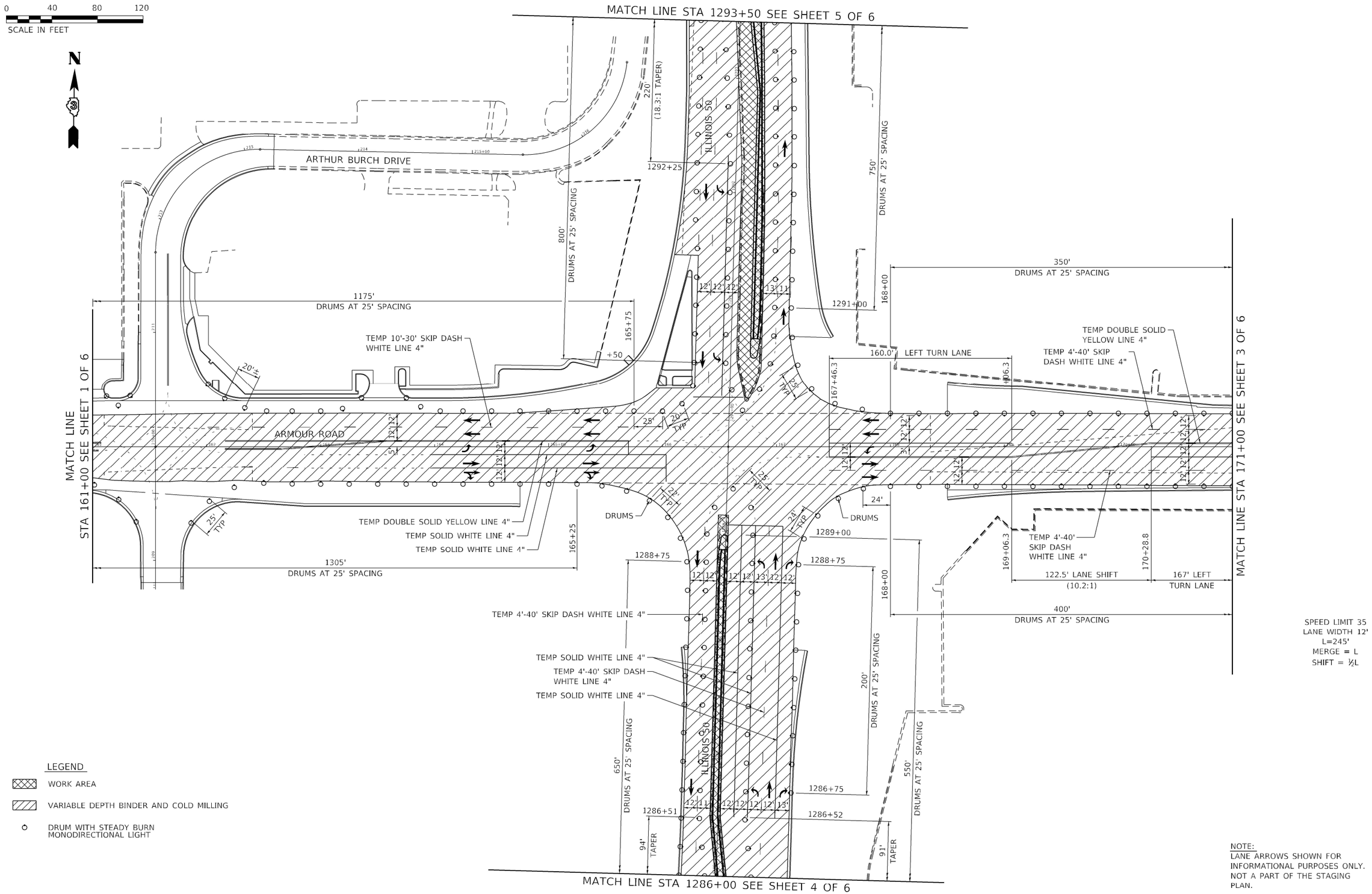
USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 5
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 40' | SHEET 1 OF 6 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	206
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



NOTE:
LANE ARROWS SHOWN FOR INFORMATIONAL PURPOSES ONLY. NOT A PART OF THE STAGING PLAN.

MODEL: 207_MOT_Sheet02
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-MOT05.dgn

Kaskaskia Engineering Group, LLC
PROFESSIONAL SECRETARIES
Illinois Professional Design Firm
Professional Engineering Group

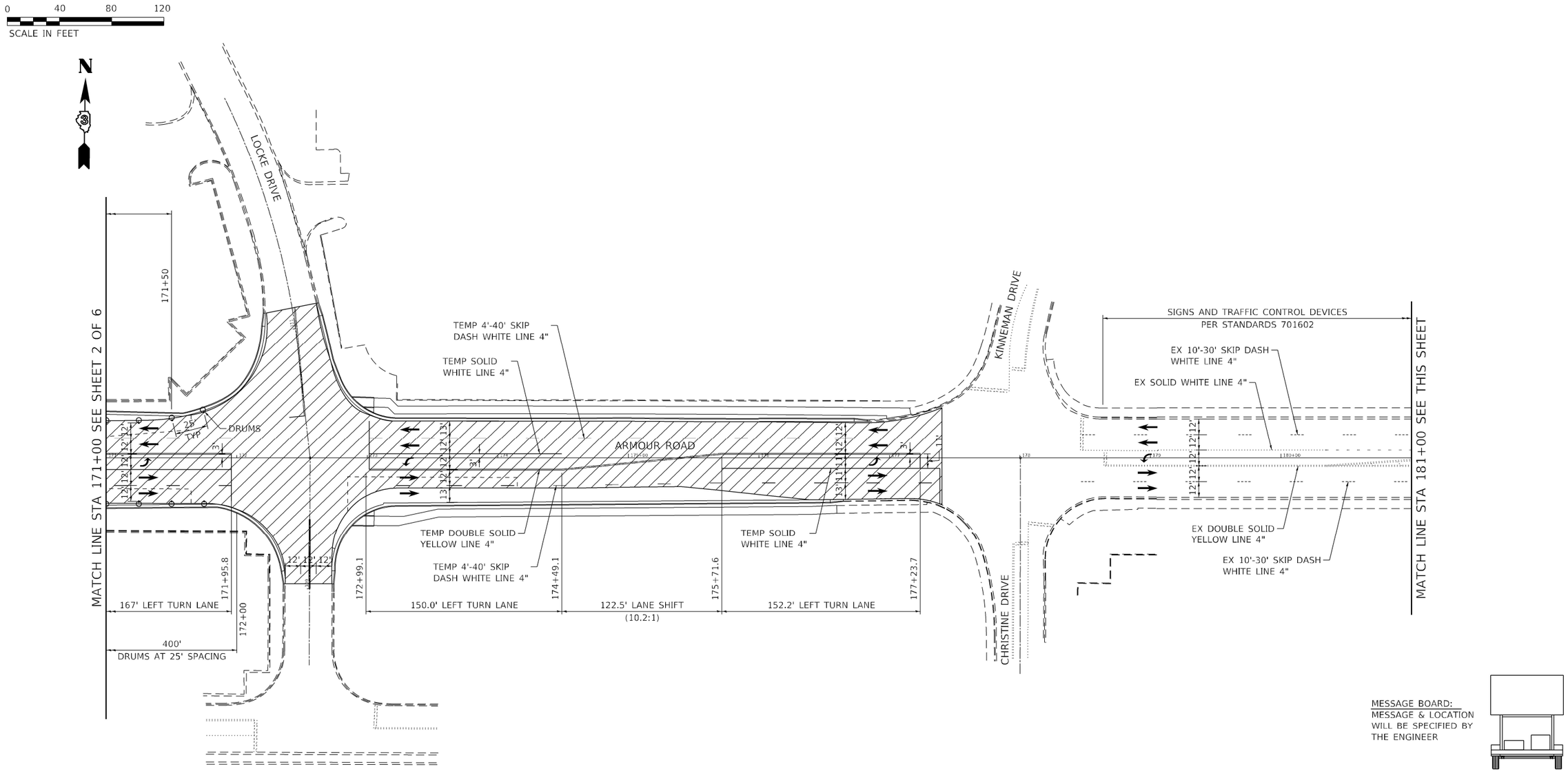
USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 5
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 40' | SHEET 2 OF 6 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	207
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



LEGEND

- WORK AREA
- VARIABLE DEPTH BINDER AND COLD MILLING
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT

NOTE:
LANE ARROWS SHOWN FOR INFORMATIONAL PURPOSES ONLY. NOT A PART OF THE STAGING PLAN.

MODEL: 208_MOT_Sheet03
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-MOT05.dgn

Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS
Illinois Professional Design Firm
Professional Engineering Group

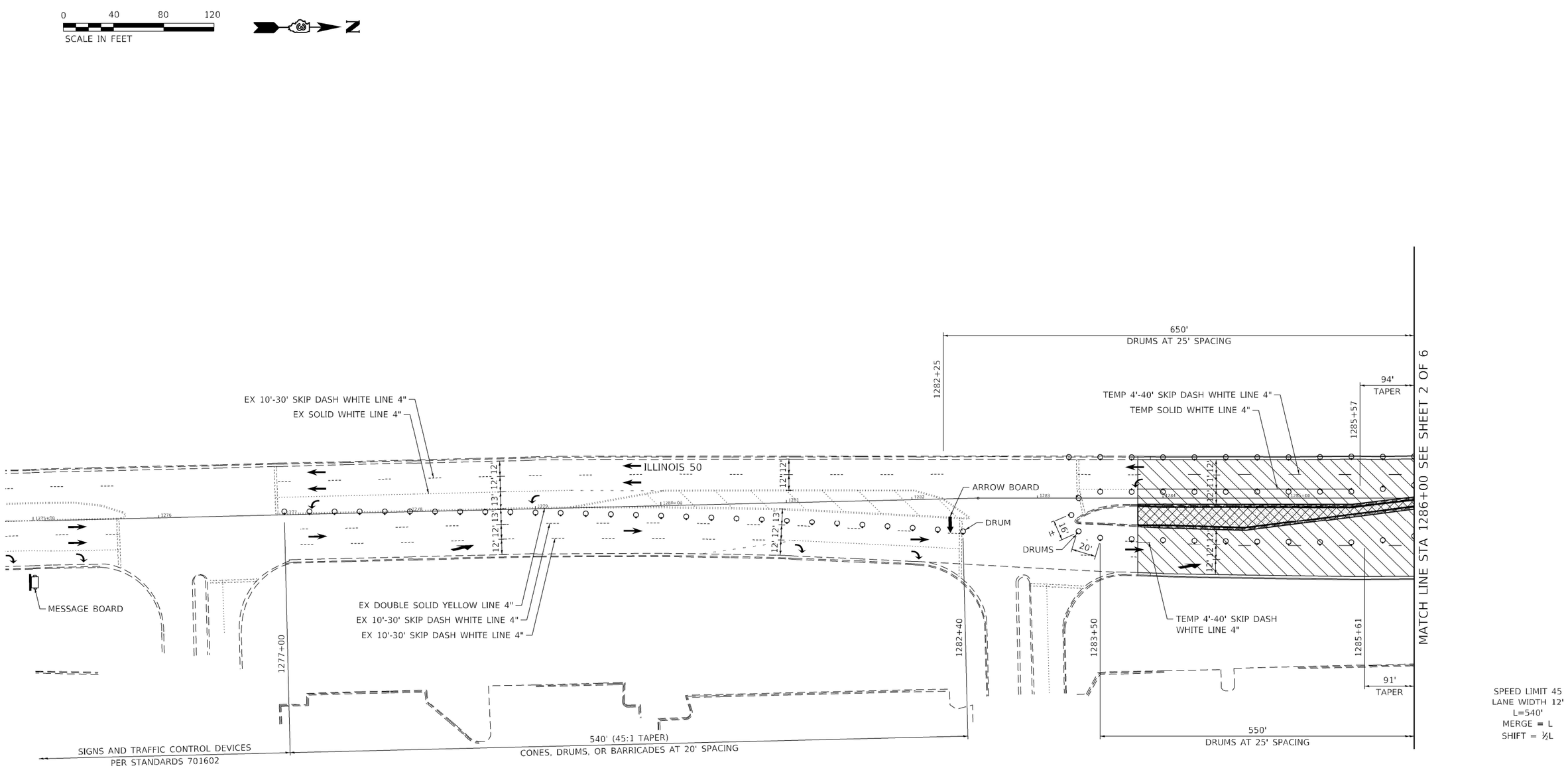
USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 5
ARMOUR ROAD AND ILLNOIS 50

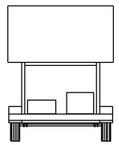
SCALE: 1" = 40' | SHEET 3 OF 6 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	208
		CONTRACT NO. 66957		
		ILLINOIS FED. AID PROJECT		



LEGEND

- WORK AREA
- VARIABLE DEPTH BINDER AND COLD MILLING
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT



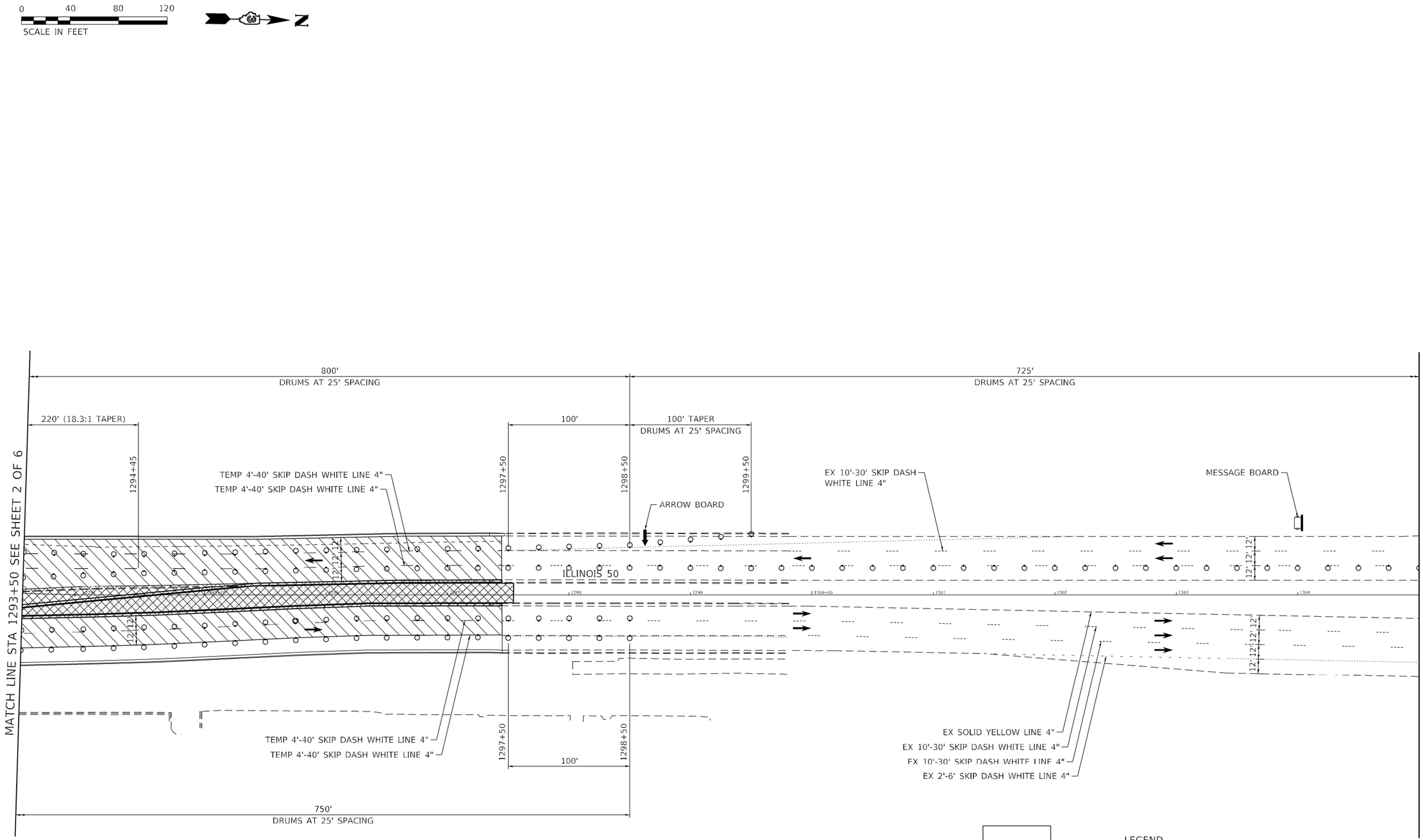
MESSAGE BOARD:
MESSAGE & LOCATION
WILL BE SPECIFIED BY
THE ENGINEER

NOTE:
LANE ARROWS SHOWN FOR INFORMATIONAL PURPOSES ONLY. NOT A PART OF THE STAGING PLAN.

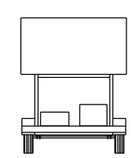
MODEL: 209_MOT_Sheet04
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-MOT05.dgn

Kaskaskia Engineering Group, LLC	USER NAME = rjo	DESIGNED - LDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC – STAGE 5 ARMOUR ROAD AND ILLNOIS 50
		DRAWN - RJO	REVISED -		
	PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -		
	PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -		SCALE: 1" = 40' SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	209
		CONTRACT NO. 66957		
		ILLINOIS FED. AID PROJECT		



MESSAGE BOARD:
MESSAGE & LOCATION WILL BE SPECIFIED BY THE ENGINEER



LEGEND

- WORK AREA
- VARIABLE DEPTH BINDER AND COLD MILLING
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT

NOTE:
LANE ARROWS SHOWN FOR INFORMATIONAL PURPOSES ONLY. NOT A PART OF THE STAGING PLAN.

MODEL: 210_MOT_Sheet05
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-MOT05.dgn

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Illinois Professional Design Firm
Professional Engineering Group

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	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 5
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 40' | SHEET 5 OF 6 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	210
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	

0 40 80 120
SCALE IN FEET

N

SIGNS AND TRAFFIC CONTROL DEVICES
PER STANDARDS 701602

725' DRUMS AT 25' SPACING | 175' DRUMS AT 25' SPACING | 100' CONES, DRUMS, OR BARRICADES AT 20' SPACING | 120' | 60' DRUMS AT 25' SPACING | 260' CONES, DRUMS, OR BARRICADES AT 20' SPACING | 90'

1305+75 | 1307+25 | 1309+00 | 1310+00 | 1311+20 | 1311+80 | 1314+40 | 1315+30

MATCH LINE STA 1305+00 SEE SHEET 5 OF 6

RAMP

EX SOLID WHITE LINE 4"
EX SOLID WHITE LINE 4"
ARROW BOARD

EX 10'-30' SKIP DASH WHITE LINE 4"
EX 10'-30' SKIP DASH WHITE LINE 4"

25' TYP

ILLINOIS 50

12' 12' 12' 12'

1305+00 1306 1307 1308 1309 1310+00 1311 1312 1313 1314 1314+00 1315 1316 1317

EX SOLID WHITE LINE 4"
EX SOLID WHITE LINE 4"
EX 10'-30' SKIP DASH WHITE LINE 4"
EX 10'-30' SKIP DASH WHITE LINE 4"

RAMP

RAMP

LEGEND

- WORK AREA
- VARIABLE DEPTH BINDER AND COLD MILLING
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT

NOTE:
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MODEL: 211_MOT_Sheet06
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D3686957-sht-MOT05.dgn

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390 E. Main St., Suite 100
Centralia, Illinois 62801
618.533.5077 phone
618.533.5077 fax
www.kaskaskiaeng.com
PROFESSIONAL DESIGN FIRM
Illinois Professional Design Firm: Professional Engineering Group
LICENSE NO.
184.007731
20-1000516

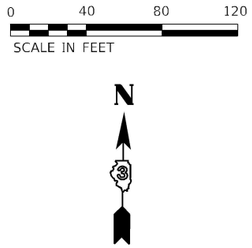
USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

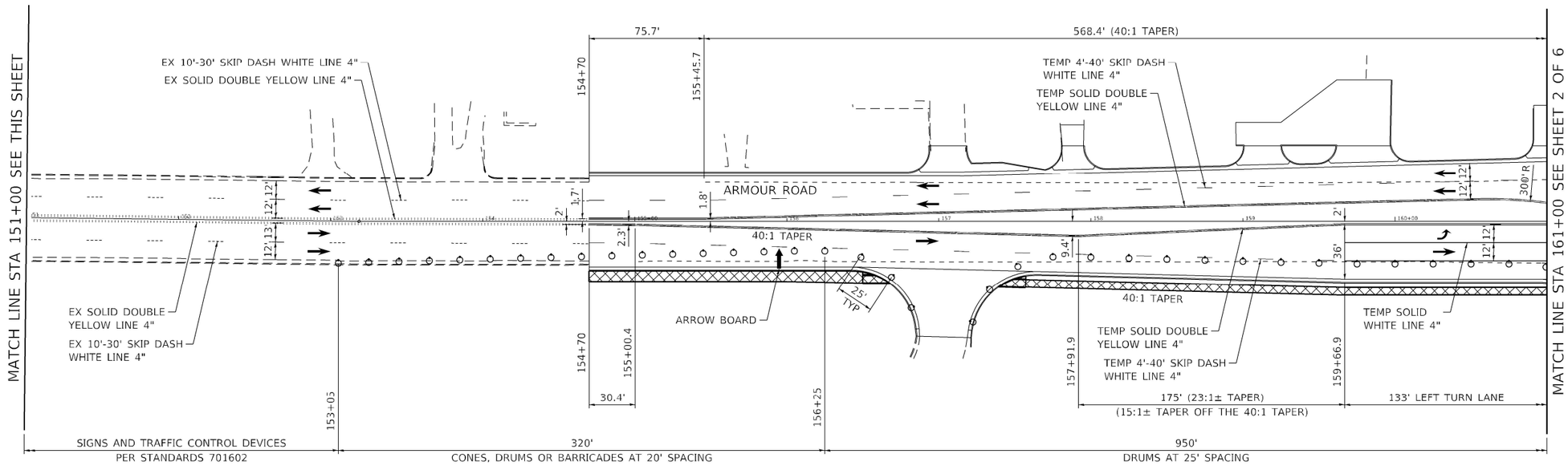
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

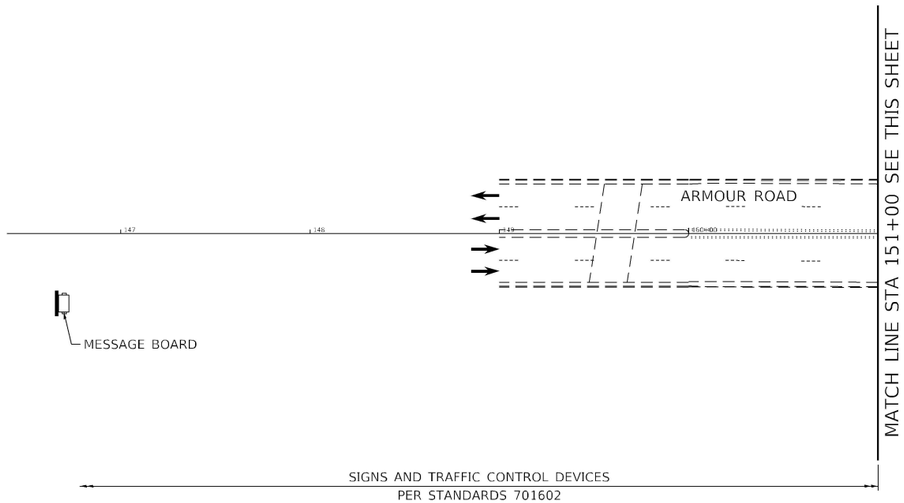
MAINTENANCE OF TRAFFIC – STAGE 5
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 40' | SHEET 6 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	211
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		



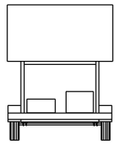




SPEED LIMIT 40
LANE WIDTH 12'
L=320'
MERGE = L
SHIFT = ½L

LEGEND

- WORK AREA
- ISLAND CONSTRUCTION
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT



MESSAGE BOARD:
MESSAGE & LOCATION WILL BE SPECIFIED BY THE ENGINEER

NOTE:
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MODEL: 212_MOT_Sheet01
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-MOT06.dgn

Kaskaskia Engineering Group, LLC
PROFESSIONAL SECRETARY
Illinois Professional Design Firm
Professional Engineering Group

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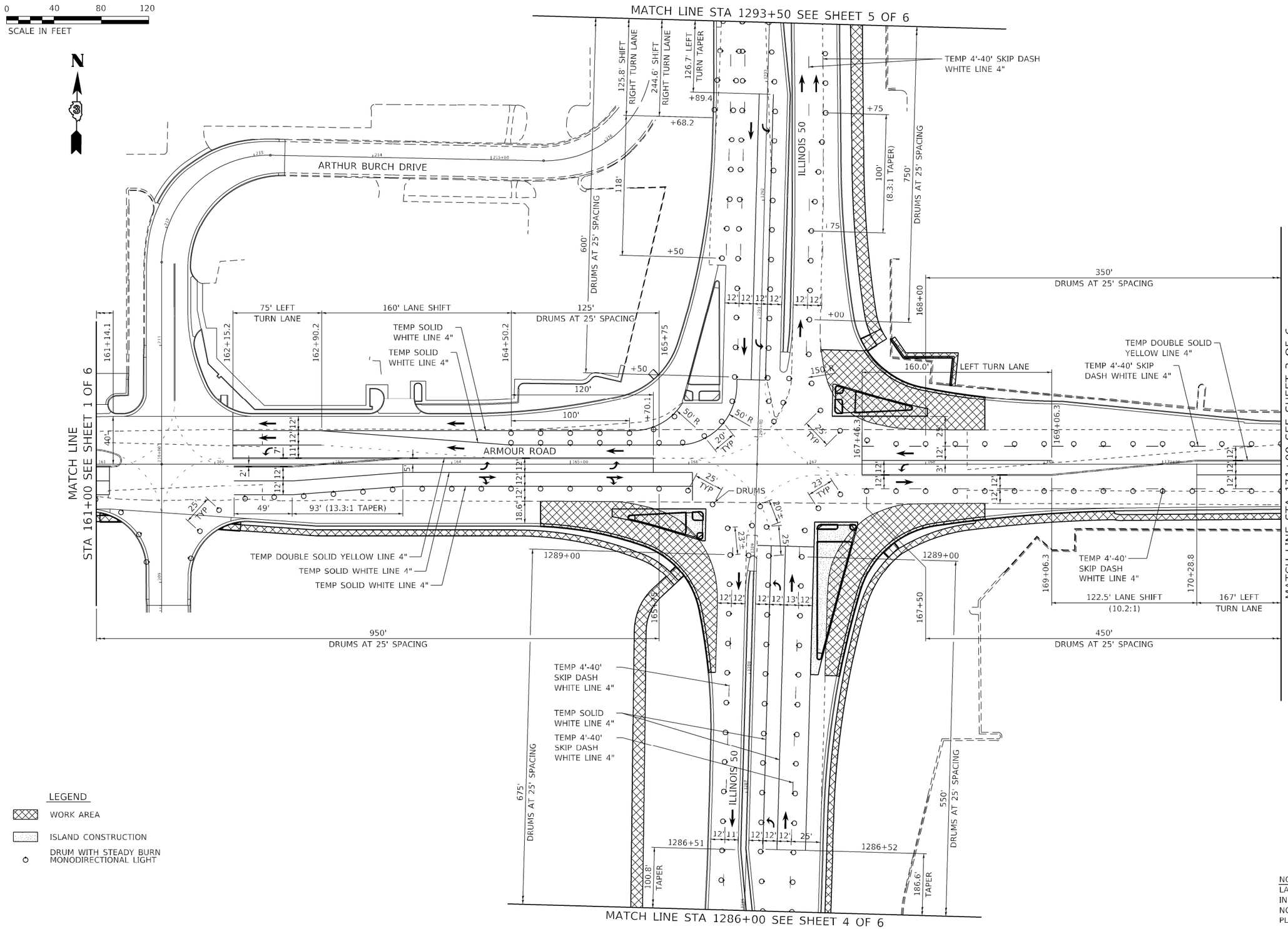
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 6
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 40' | SHEET 1 OF 6 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	212
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



SPEED LIMIT 35
LANE WIDTH 12'
L=245'
MERGE = L
SHIFT = ½L

LEGEND

- WORK AREA
- ISLAND CONSTRUCTION
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT

NOTE:
LANE ARROWS SHOWN FOR INFORMATIONAL PURPOSES ONLY. NOT A PART OF THE STAGING PLAN.

MODEL: 213_MOT_Sheet02
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-MOT06.dgn

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Belleville, Illinois 62220
618.233.5877 phone
618.233.5877 fax
www.kaskaskiaeng.com
PROFESSIONAL SIGNATURES
Illinois Professional Design Firm
Professional Engineering Group
LICENSE NO.
184.004753
20-5000185

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	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

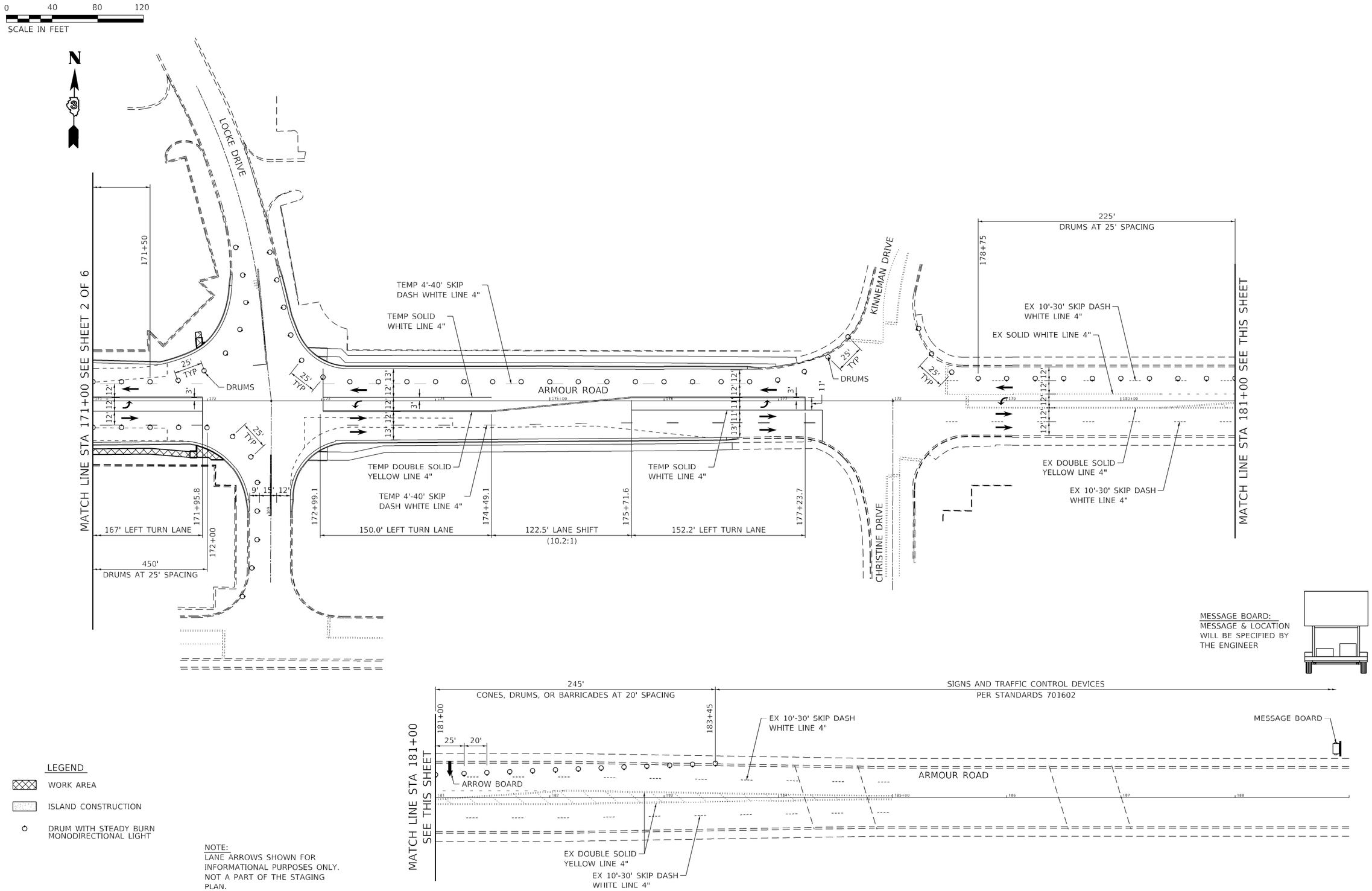
MAINTENANCE OF TRAFFIC – STAGE 6
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 40' | SHEET 2 OF 6 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	213

CONTRACT NO. 66957

ILLINOIS | FED. AID PROJECT



NOTE:
LANE ARROWS SHOWN FOR INFORMATIONAL PURPOSES ONLY. NOT A PART OF THE STAGING PLAN.

MODEL: 214_MOT_Sheet03
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-MOT06.dgn

Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS
Illinois Professional Design Firm
Professional Engineering Group

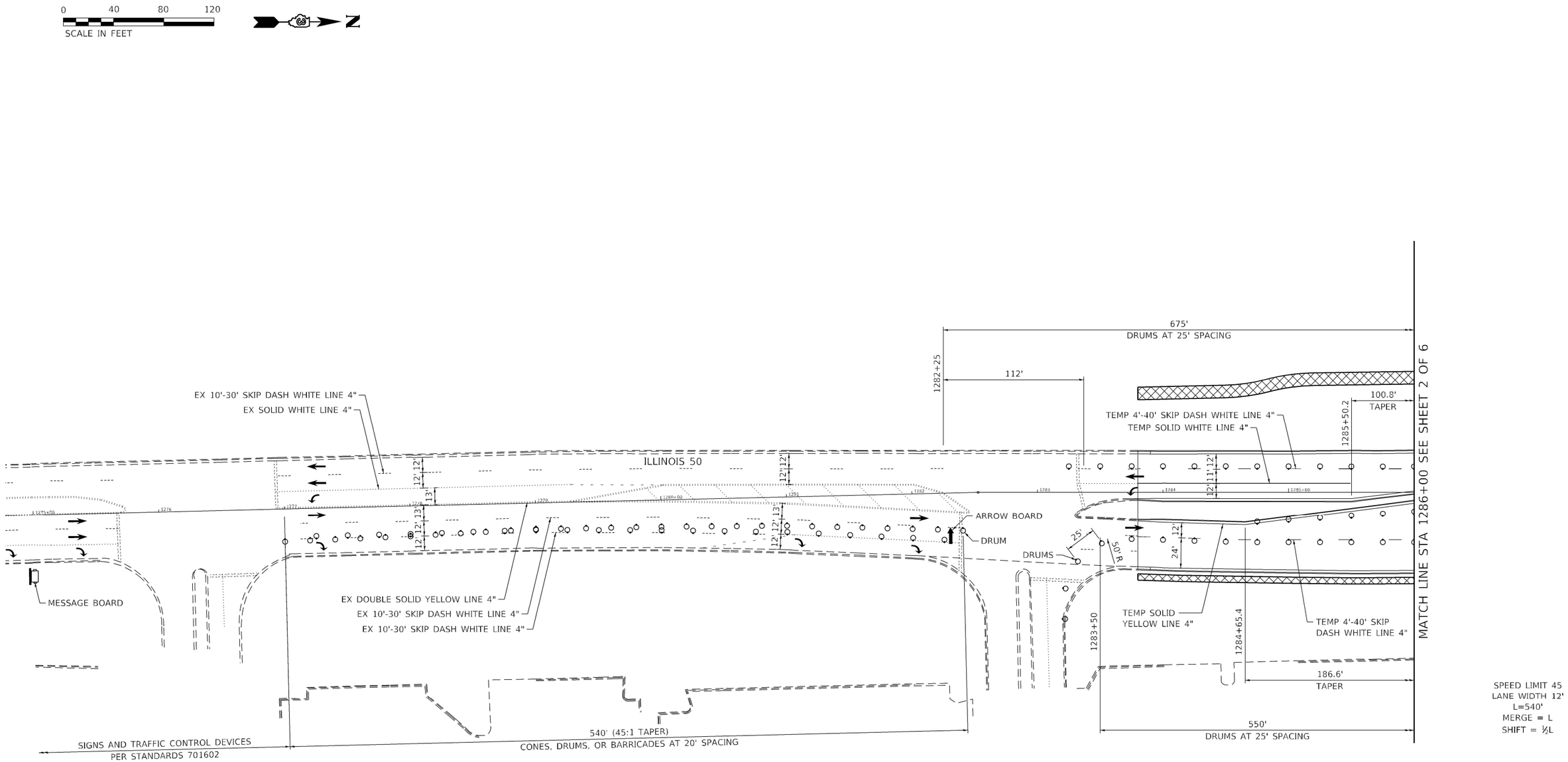
USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 6
ARMOUR ROAD AND ILLNOIS 50

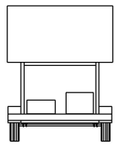
SCALE: 1" = 40' | SHEET 3 OF 6 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	214
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



LEGEND

- WORK AREA
- ISLAND CONSTRUCTION
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT



MESSAGE BOARD:
MESSAGE & LOCATION WILL BE SPECIFIED BY THE ENGINEER

NOTE:
LANE ARROWS SHOWN FOR INFORMATIONAL PURPOSES ONLY. NOT A PART OF THE STAGING PLAN.

MODEL: 215_MOT_Sheet04
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-MOT06.dgn

Kaskaskia Engineering Group, LLC
200 E. Main St., Suite 100
Belleville, Illinois 62220
618.233.5977 phone
618.233.5977 fax
www.kaskaskiaeng.com
PROFESSIONAL REGISTRATIONS
Illinois Professional Design Firm
Professional Engineering Group
LICENSE NO.
184.004773
20-5000186

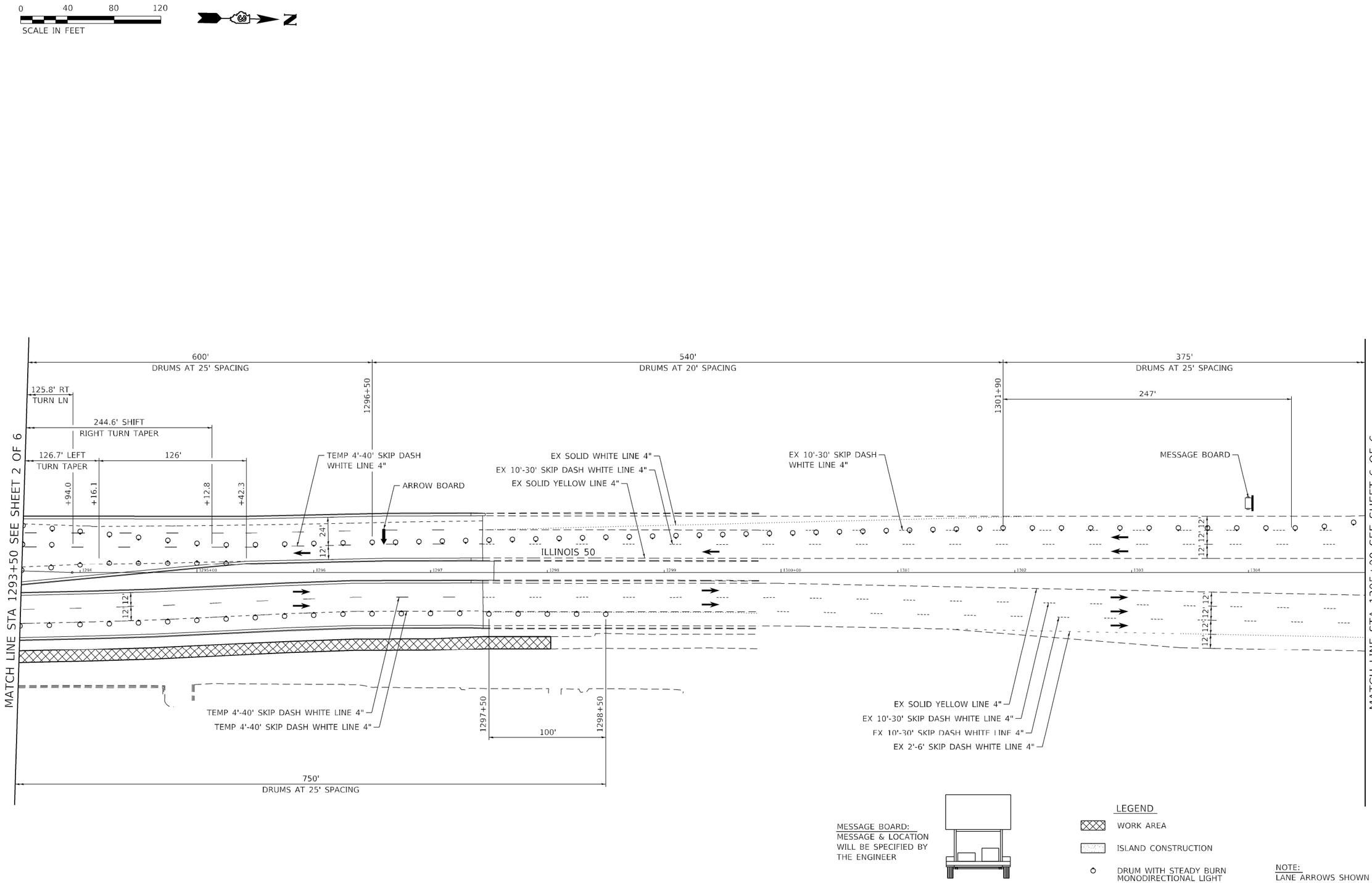
USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 6
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 40' | SHEET 4 OF 6 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	215
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



NOTE:
LANE ARROWS SHOWN FOR INFORMATIONAL PURPOSES ONLY. NOT A PART OF THE STAGING PLAN.

MODEL: 216_MOT_Sheet05
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Professional Engineering Group

USER NAME = rjo	DESIGNED - LDC	REVISED -	
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PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 6
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 40' | SHEET 5 OF 6 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	216
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	

0 40 80 120
SCALE IN FEET

MATCH LINE STA 1305+00 SEE SHEET 5 OF 6

385' DRUMS
AT 25' SPACING

150'
DRUMS AT 25' SPACING

540'
CONES, DRUMS, OR BARRICADES AT 20' SPACING

165'

SIGNS AND TRAFFIC CONTROL DEVICES
PER STANDARDS 701602

1305+65 | 1306+75 | 1308+25 | 1313+65 | 1315+30

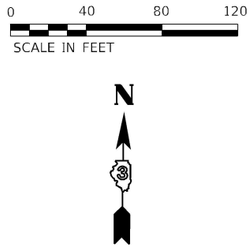
RAMP

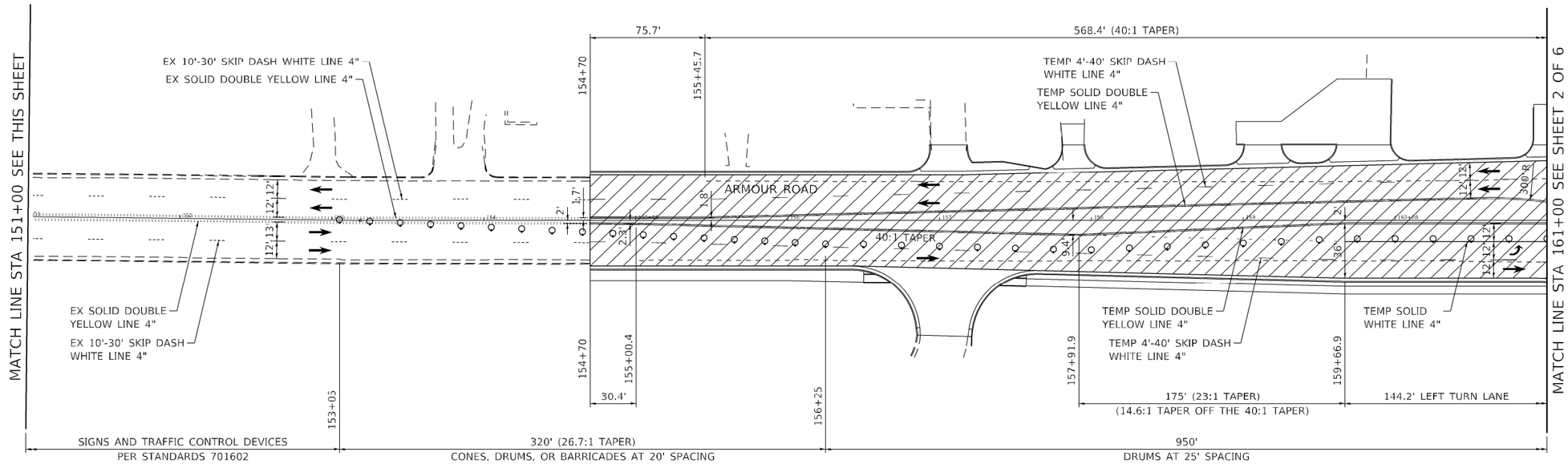
300' R

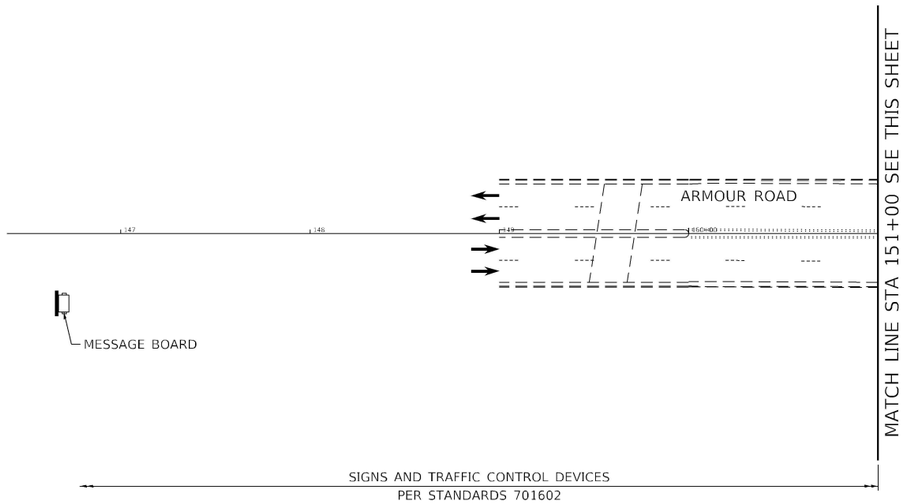
ARROW BOARD
EX SOLID WHITE LINE 4"
EX SOLID WHITE LINE 4"
EX 10'-30' SKIP DASH WHITE LINE 4"
EX 10'-30' SKIP DASH WHITE LINE 4"

ILLINOIS 50

12' 12' 12'



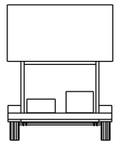




SPEED LIMIT 40
LANE WIDTH 12'
L=320'
MERGE = L
SHIFT = ½L

LEGEND

- WORK AREA
- HMA BINDER & SURFACE COURSE
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT



MESSAGE BOARD:
MESSAGE & LOCATION WILL BE SPECIFIED BY THE ENGINEER

NOTE:
LANE ARROWS SHOWN FOR INFORMATIONAL PURPOSES ONLY. NOT A PART OF THE STAGING PLAN.

MODEL: 218_MOT_Sheet01
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-MOT07.dgn

Kaskaskia Engineering Group, LLC
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Illinois Professional Design Firm
Professional Engineering Group

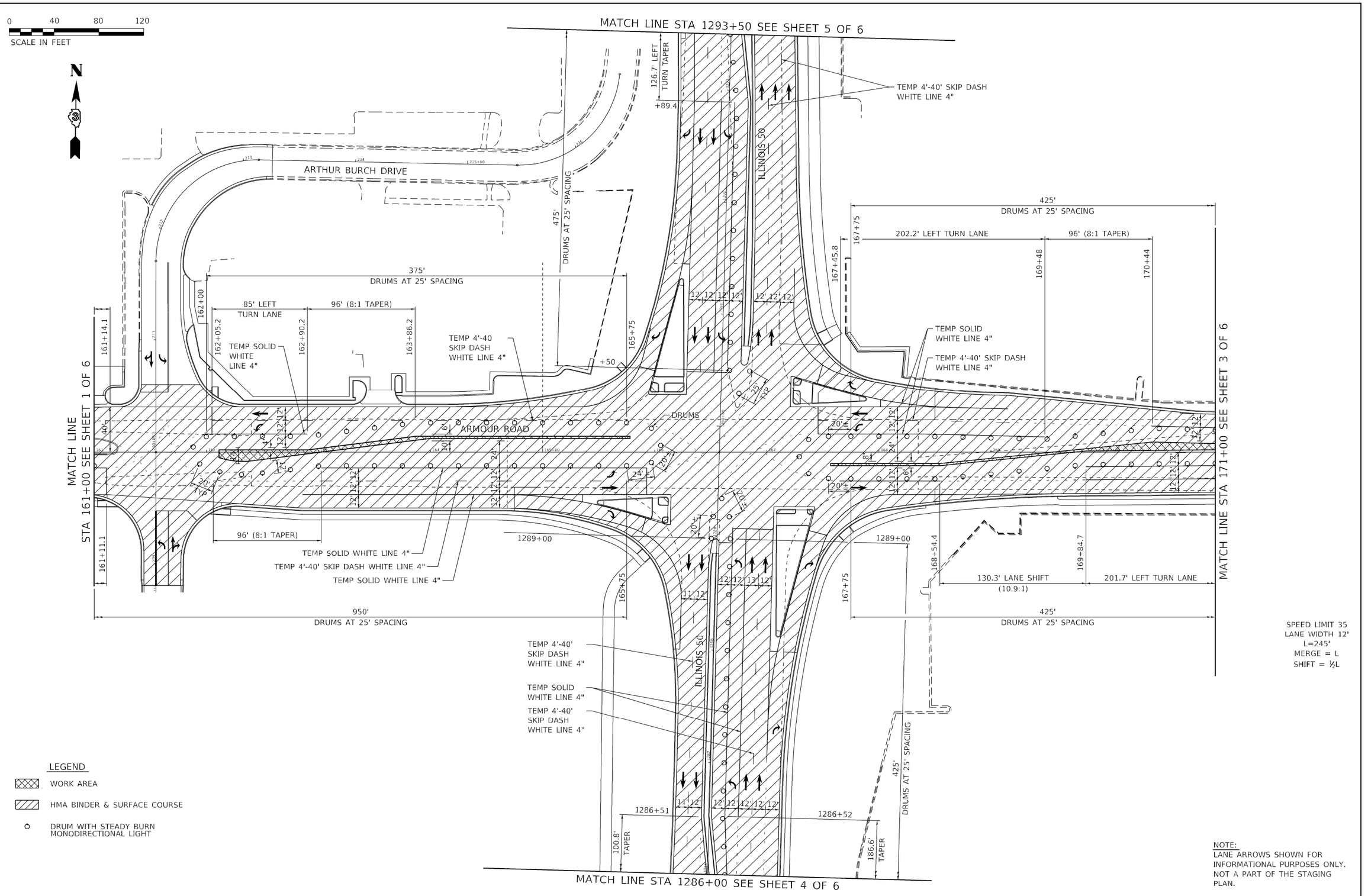
USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 7
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 40' | SHEET 1 OF 6 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	218
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



SPEED LIMIT 35
LANE WIDTH 12'
L=245'
MERGE = L
SHIFT = ½L

LEGEND

- WORK AREA
- HMA BINDER & SURFACE COURSE
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT

NOTE:
LANE ARROWS SHOWN FOR INFORMATIONAL PURPOSES ONLY. NOT A PART OF THE STAGING PLAN.

MODEL: 219_MOT_Sheet02
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-MOT07.dgn

Kaskaskia Engineering Group, LLC
200 E. Main St., Suite 100
Belleville, Illinois 62220
618.233.5877 phone
618.233.5877 fax
www.kaskaskiaeng.com
PROFESSIONAL SIGNATURES
Illinois Professional Design Firm
Professional Engineering Group
LICENSE NO.
184.004773
20-5000185

USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

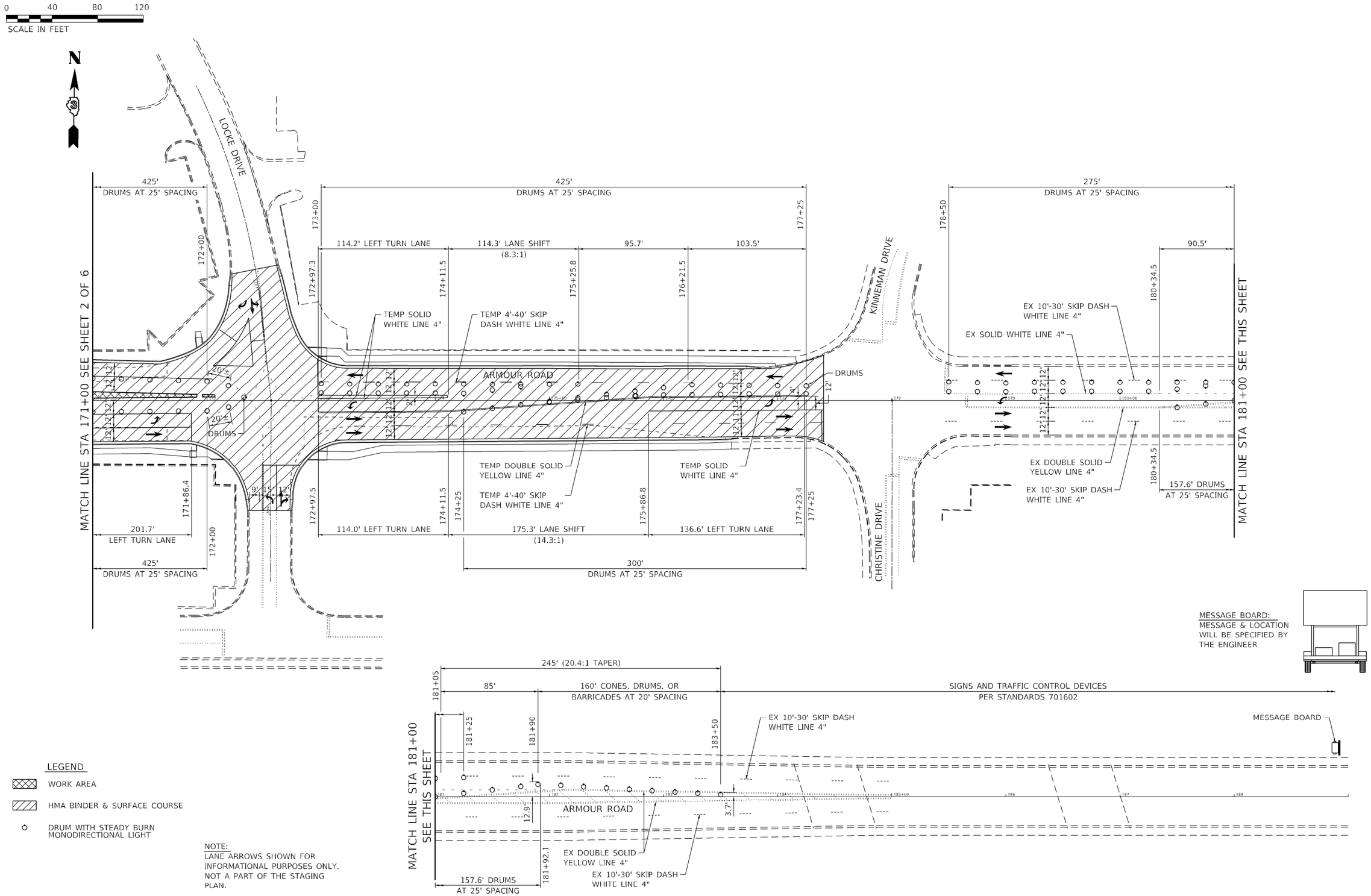
MAINTENANCE OF TRAFFIC – STAGE 7
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 40' | SHEET 2 OF 6 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	219

CONTRACT NO. 66957

ILLINOIS | FED. AID PROJECT



LEGEND

- WORK AREA
- HMA BINDER & SURFACE COURSE
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT

NOTE:
LANE ARROWS SHOWN FOR INFORMATIONAL PURPOSES ONLY. NOT A PART OF THE STAGING PLAN.

MODEL: 220_MOT_Sheet03
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-MOT07.dgn

Kaskaskia Engineering Group, LLC
PROFESSIONAL ENGINEERING
Illinois Professional Design Firm
Professional Engineering Group

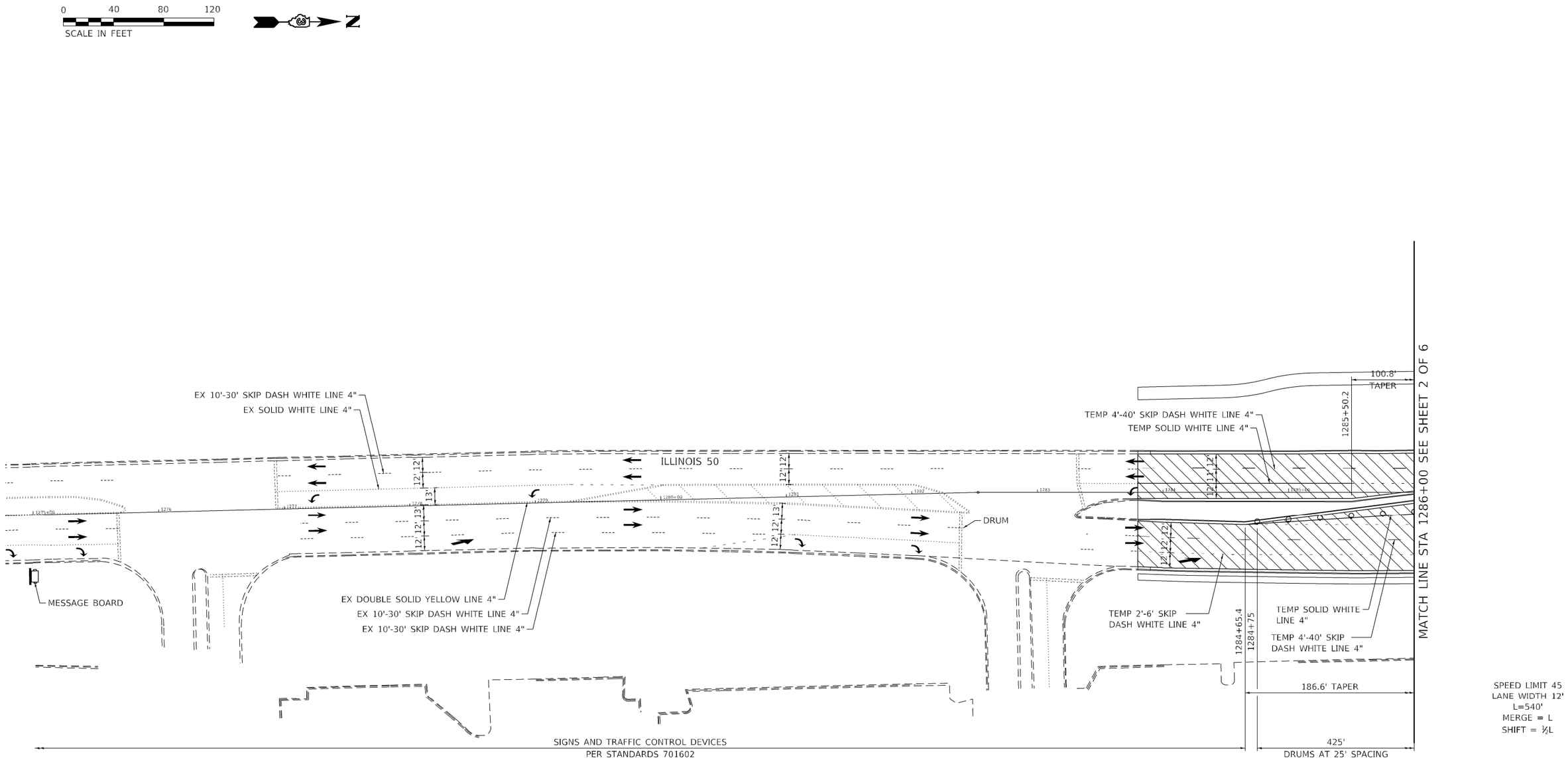
USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 7
ARMOUR ROAD AND ILLNOIS 50

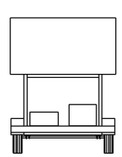
SCALE: 1" = 40' | SHEET 3 OF 6 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	220
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



LEGEND

- WORK AREA
- HMA BINDER & SURFACE COURSE
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT



MESSAGE BOARD:
MESSAGE & LOCATION WILL BE SPECIFIED BY THE ENGINEER

NOTE:
LANE ARROWS SHOWN FOR INFORMATIONAL PURPOSES ONLY. NOT A PART OF THE STAGING PLAN.

MODEL: 221_MOT_Sheet04
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-MOT07.dgn

Kaskaskia Engineering Group, LLC
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Belleville, Illinois 62220
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PROFESSIONAL REGISTRATIONS
Illinois Professional Design Firm
Professional Engineering Group
LICENSE NO.
184.004773
20-5000185

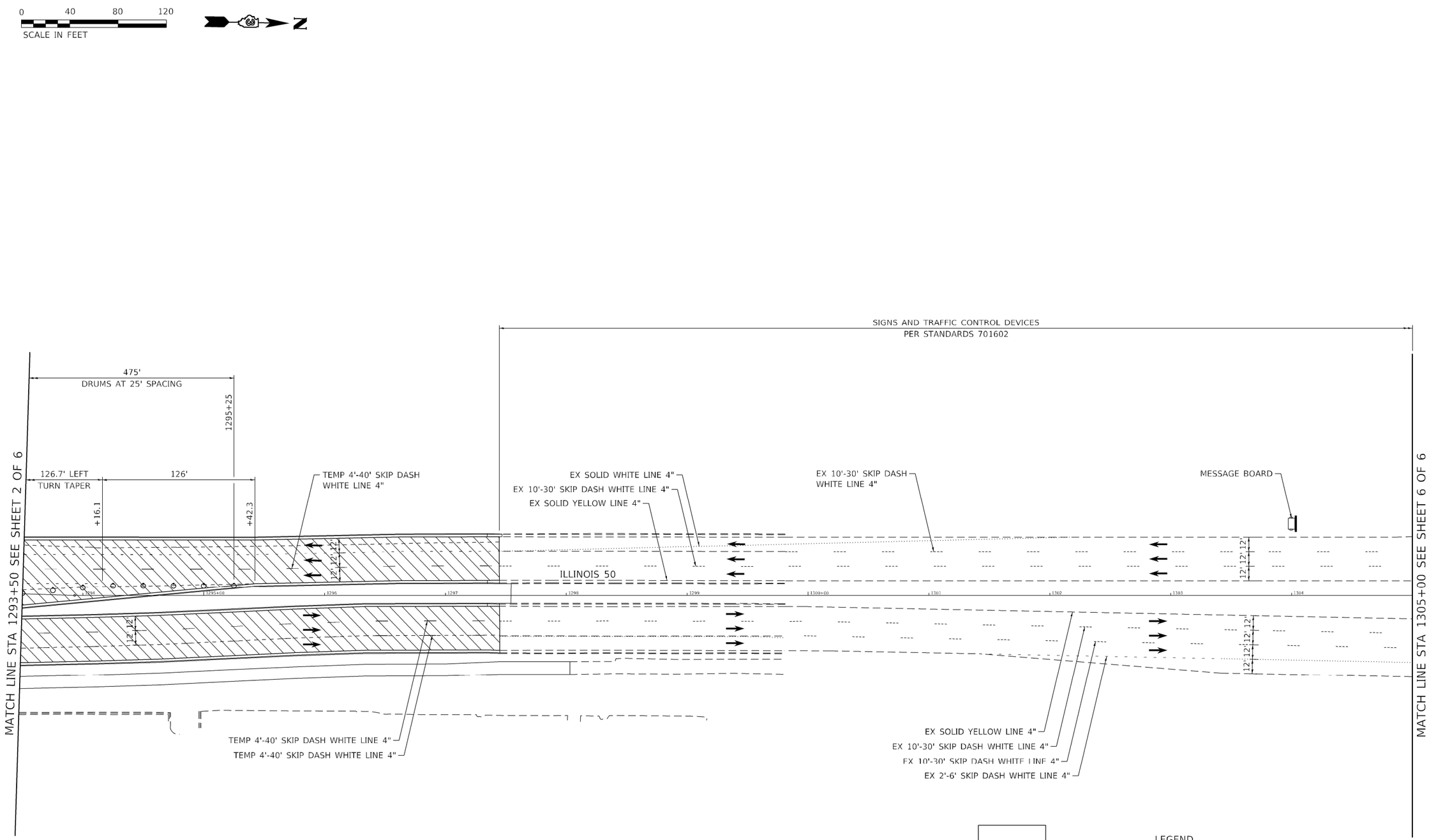
USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 7
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 40' | SHEET 4 OF 6 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	221
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



NOTE:
LANE ARROWS SHOWN FOR INFORMATIONAL PURPOSES ONLY. NOT A PART OF THE STAGING PLAN.

MODEL: 222_MOT_Sheet05
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-MOT07.dgn

Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS
Illinois Professional Design Firm
Professional Engineering Group

USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 7
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 40' | SHEET 5 OF 6 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	222
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	

0 40 80 120
SCALE IN FEET

N

MATCH LINE STA 1305+00 SEE SHEET 5 OF 6

SIGNS AND TRAFFIC CONTROL DEVICES
PER STANDARDS 701602

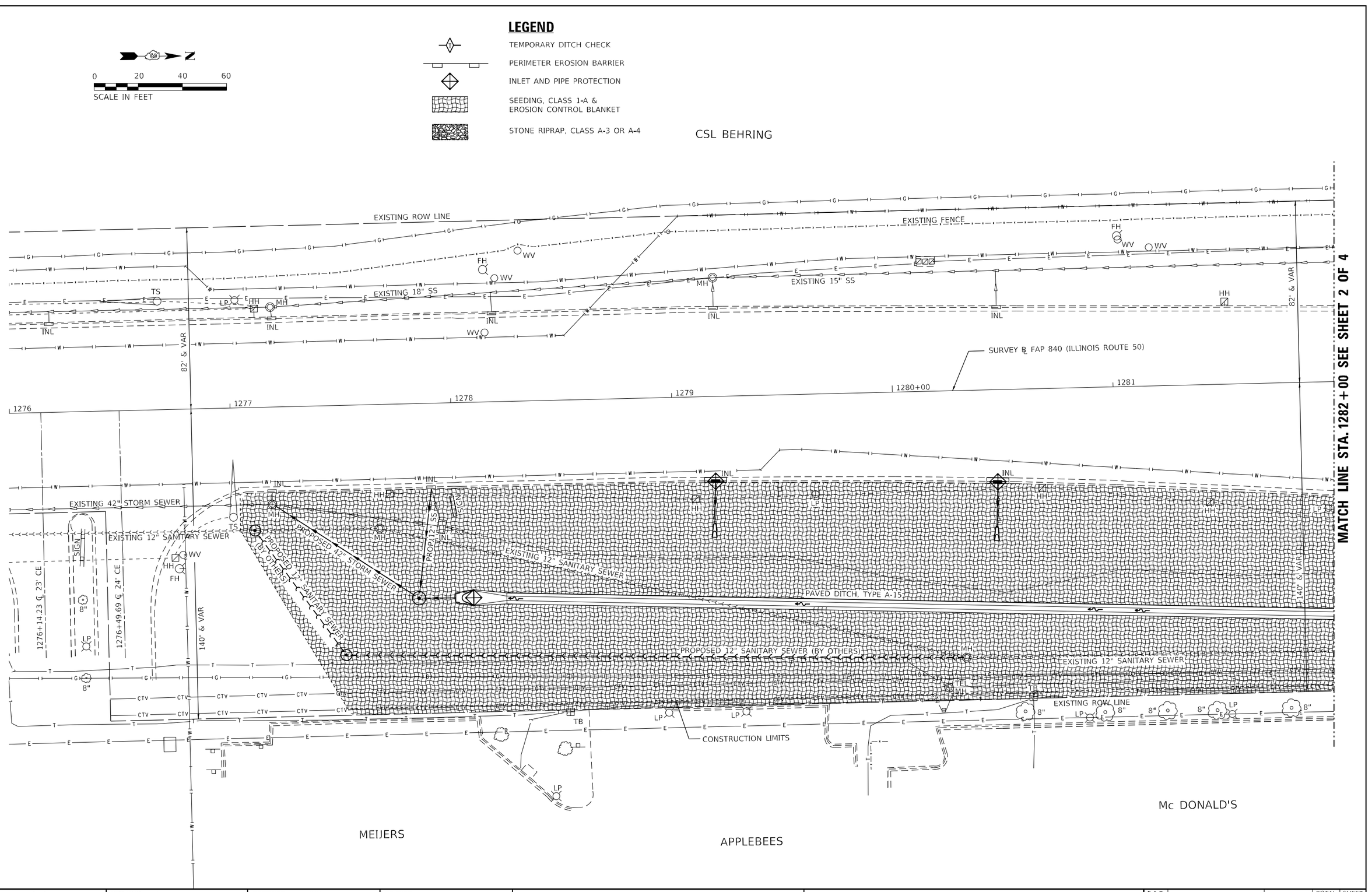
RAMP

EX SOLID WHITE LINE 4"
EX SOLID WHITE LINE 4"
EX 10'-30' SKIP DASH WHITE LINE 4"
EX 10'-30' SKIP DASH WHITE LINE 4"

ILLINOIS 50

1305+00 1306 1307 1308 1309 1310+00 1311 1312 1313 1314 1315+00 1316 1317

12' 12' 12'



MODEL: PLOT
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-eros03-IL50.dgn

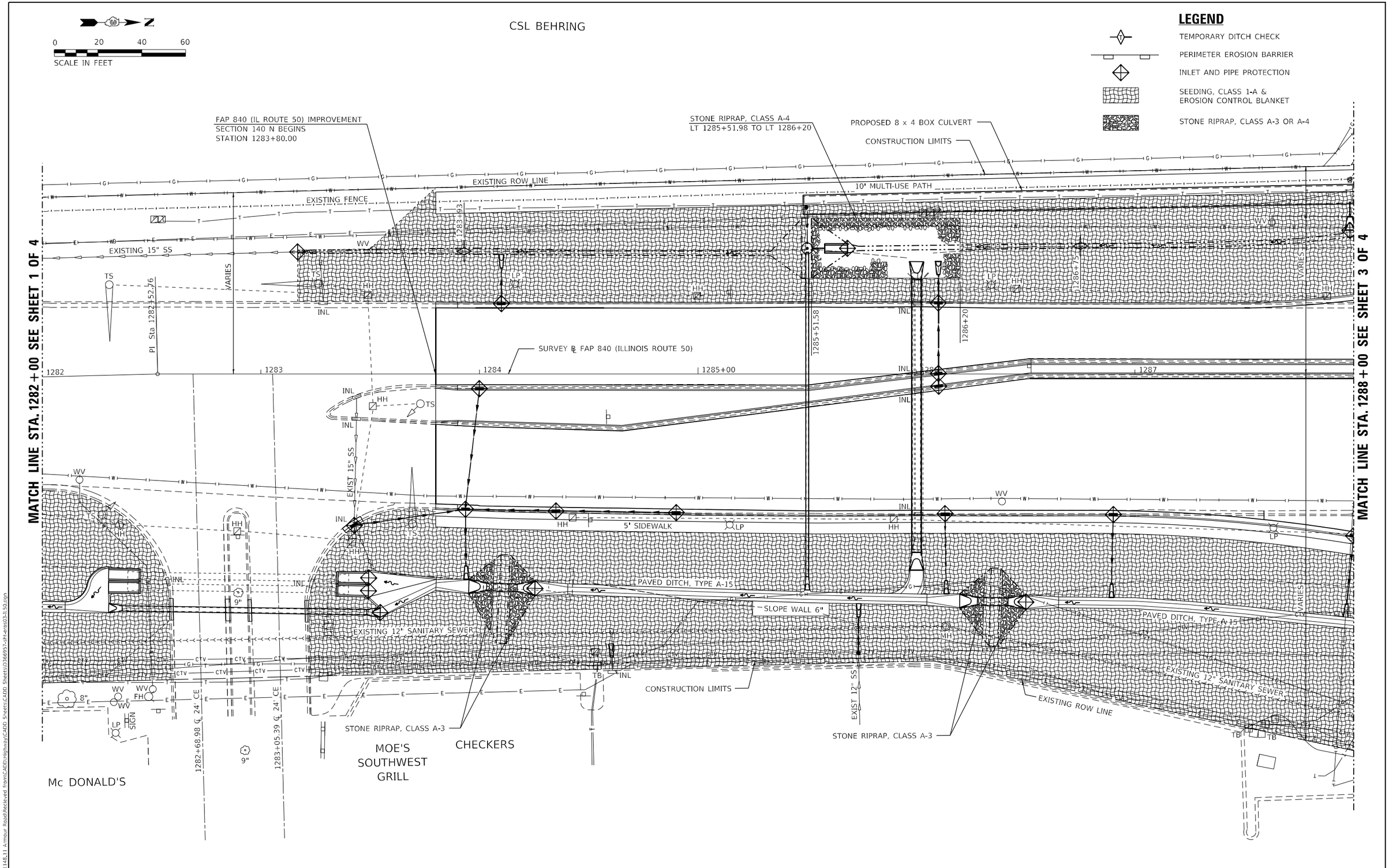
ESCA CONSULTANTS, INC.	USER NAME = rjo	DESIGNED - JHM	REVISED -
	ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -
	PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -
	PLOT DATE = 1/27/2022	DATE - 11/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN ILLINOIS ROUTE 50

SCALE: 1" = 20' | SHEET 1 OF 4 SHEETS | STA. 1276+00.00 TO STA. 1282+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	224
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



MODEL: PLOT01
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-eros03-ill50.dgn

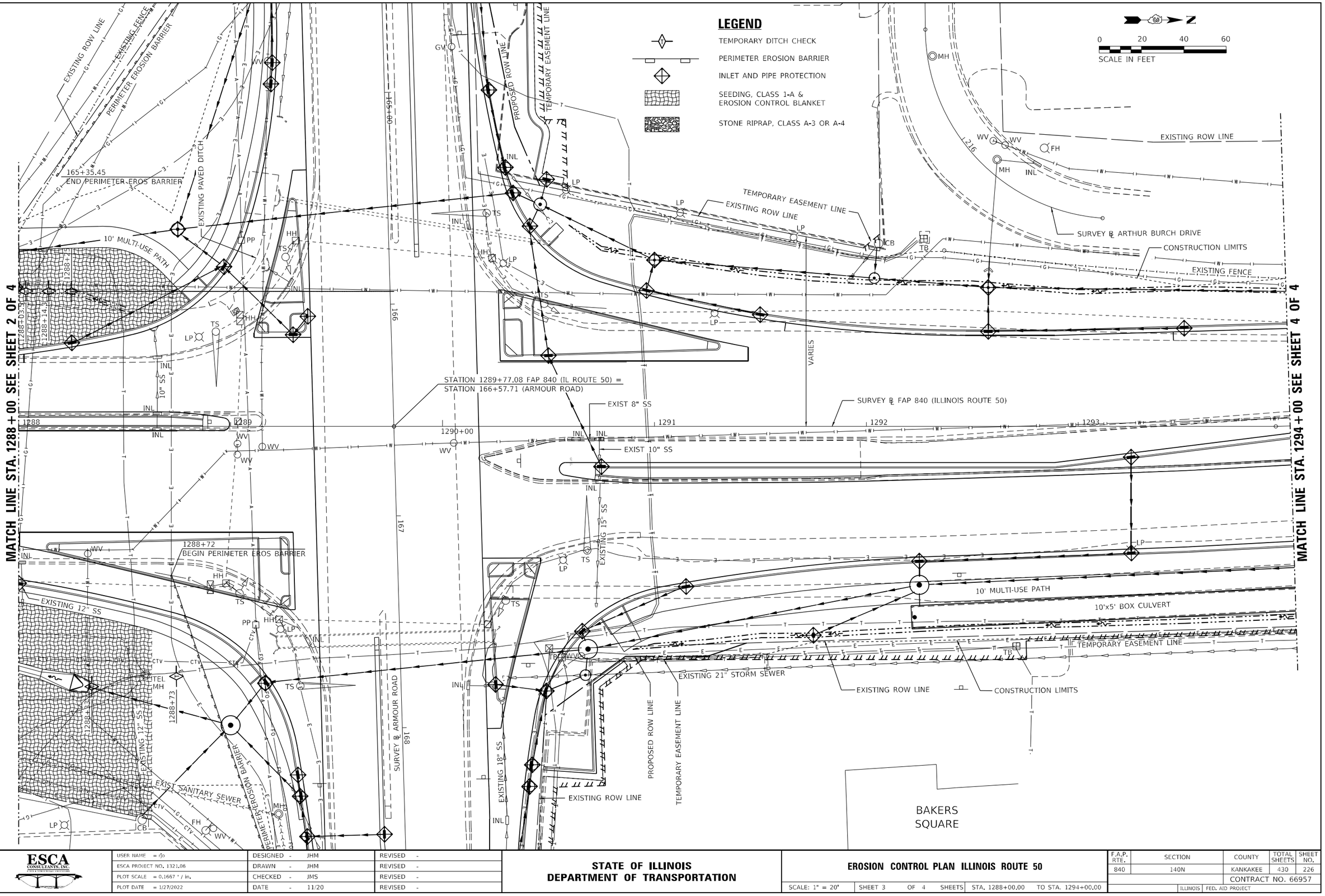
ESCA CONSULTANTS, INC.	USER NAME = rjo	DESIGNED - JHM	REVISED -
	ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -
	PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -
	PLOT DATE = 1/27/2022	DATE - 11/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN ILLINOIS ROUTE 50

SCALE: 1" = 20' | SHEET 2 OF 4 SHEETS | STA. 1282+00.00 TO STA. 1288+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	225
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



ESCA CONSULTANTS, INC.	USER NAME = rjo	DESIGNED - JHM	REVISED -
	ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -
	PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -
	PLOT DATE = 1/27/2022	DATE - 11/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN ILLINOIS ROUTE 50

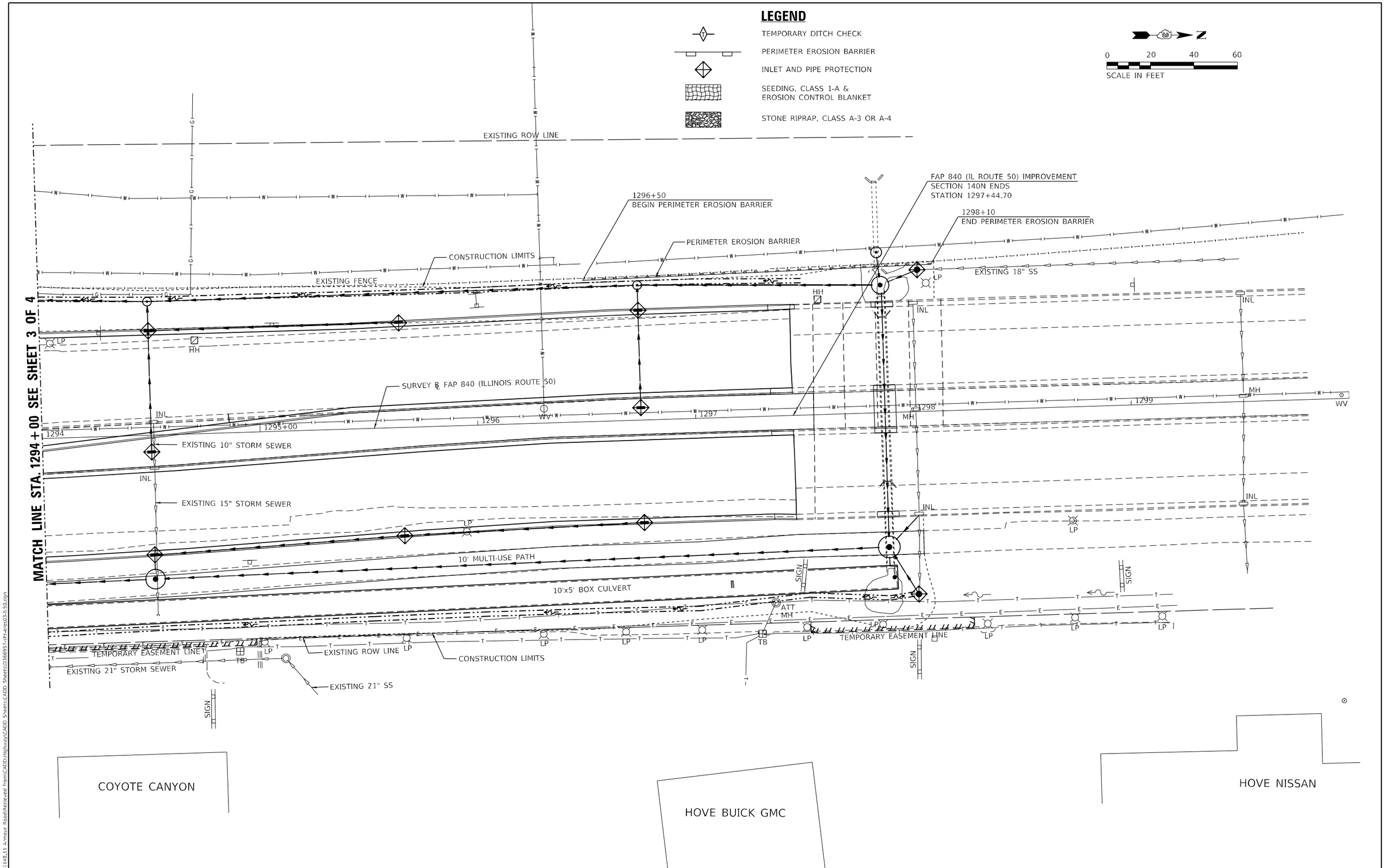
SCALE: 1" = 20' | SHEET 3 OF 4 SHEETS | STA. 1288+00.00 TO STA. 1294+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	226

CONTRACT NO. 66957

ILLINOIS | FED. AID PROJECT

MODEL: PLOT02
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-eros03-il50.dgn



MODEL: PLOT03
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-eros03-il50.dgn

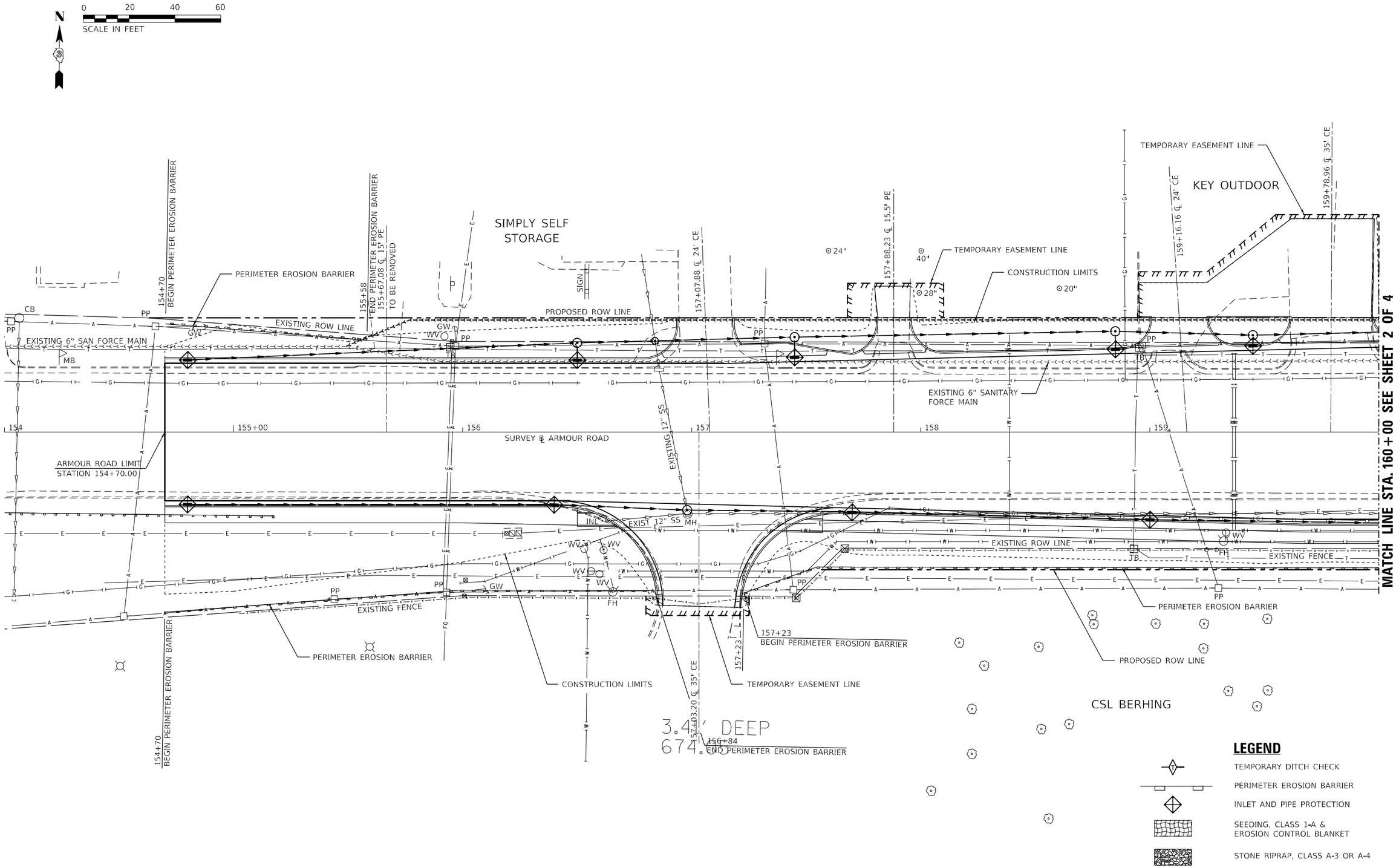
ESCA CONSULTANTS, INC.	USER NAME = rjo	DESIGNED - JHM	REVISED -
	ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -
	PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -
	PLOT DATE = 1/27/2022	DATE - 11/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN ILLINOIS ROUTE 50

SCALE: 1" = 20' | SHEET 4 OF 4 SHEETS | STA. 1294+00.00 TO STA. 1300+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	227
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



MODEL: PLOT
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-eros01-Armour.dgn

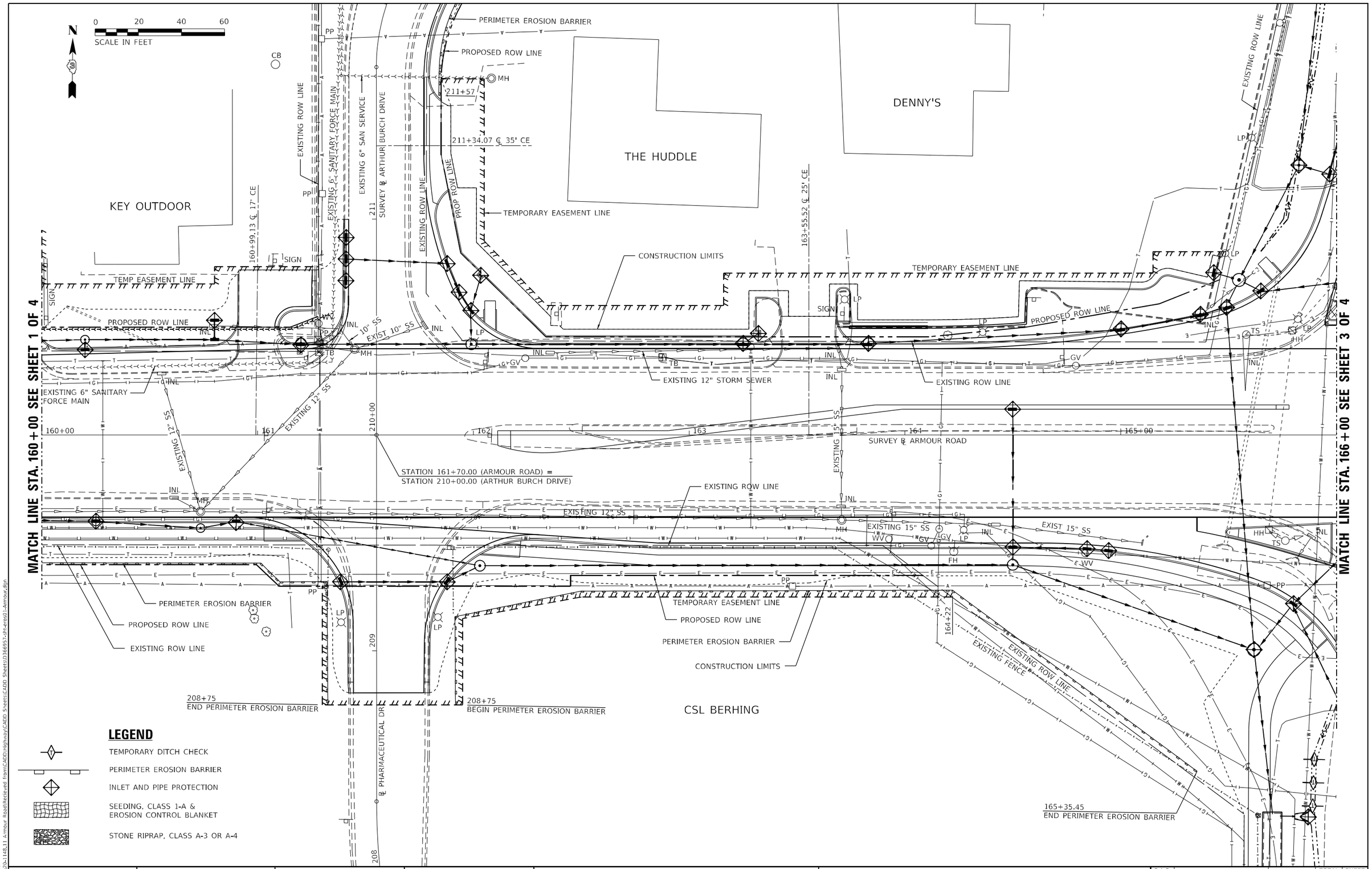
ESCA CONSULTANTS, INC.	USER NAME = rjo	DESIGNED - JHM	REVISED -
	ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -
	PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -
	PLOT DATE = 1/27/2022	DATE - 11/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN ARMOUR ROAD

SCALE: 1" = 20' | SHEET 1 OF 4 SHEETS | STA. 154+00.00 TO STA. 160+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	228
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



LEGEND

- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- INLET AND PIPE PROTECTION
- SEEDING, CLASS 1-A & EROSION CONTROL BLANKET
- STONE RIPRAP, CLASS A-3 OR A-4

MODEL: PLOT01
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\0366957-ilt-ero01-Armour.dgn

ESCA CONSULTANTS, INC.

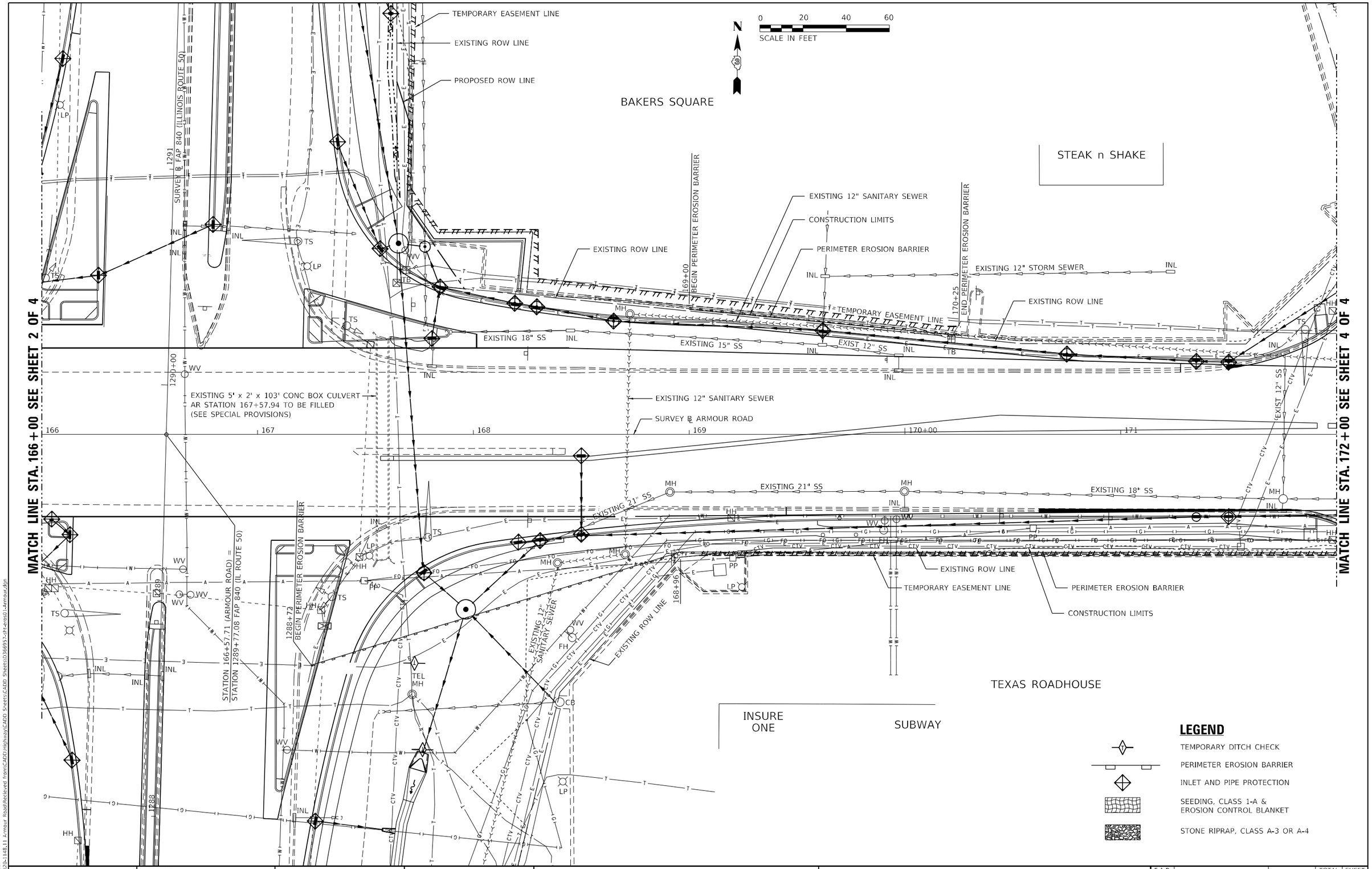
USER NAME = rjo	DESIGNED - JHM	REVISED -	
ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -	
PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -	
PLOT DATE = 1/27/2022	DATE - 11/20	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN ARMOUR ROAD

SCALE: 1" = 20' | SHEET 2 OF 4 SHEETS | STA. 160+00.00 TO STA. 166+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	229
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		



MODEL: PLOT02
FILE NAME: P:\20-1148.11 Armour Road\Received from\CADD\Highway\CADD Sheets\CADD Sheets\0366957-jht-ero01-Armour.dgn

ESCA CONSULTANTS, INC.

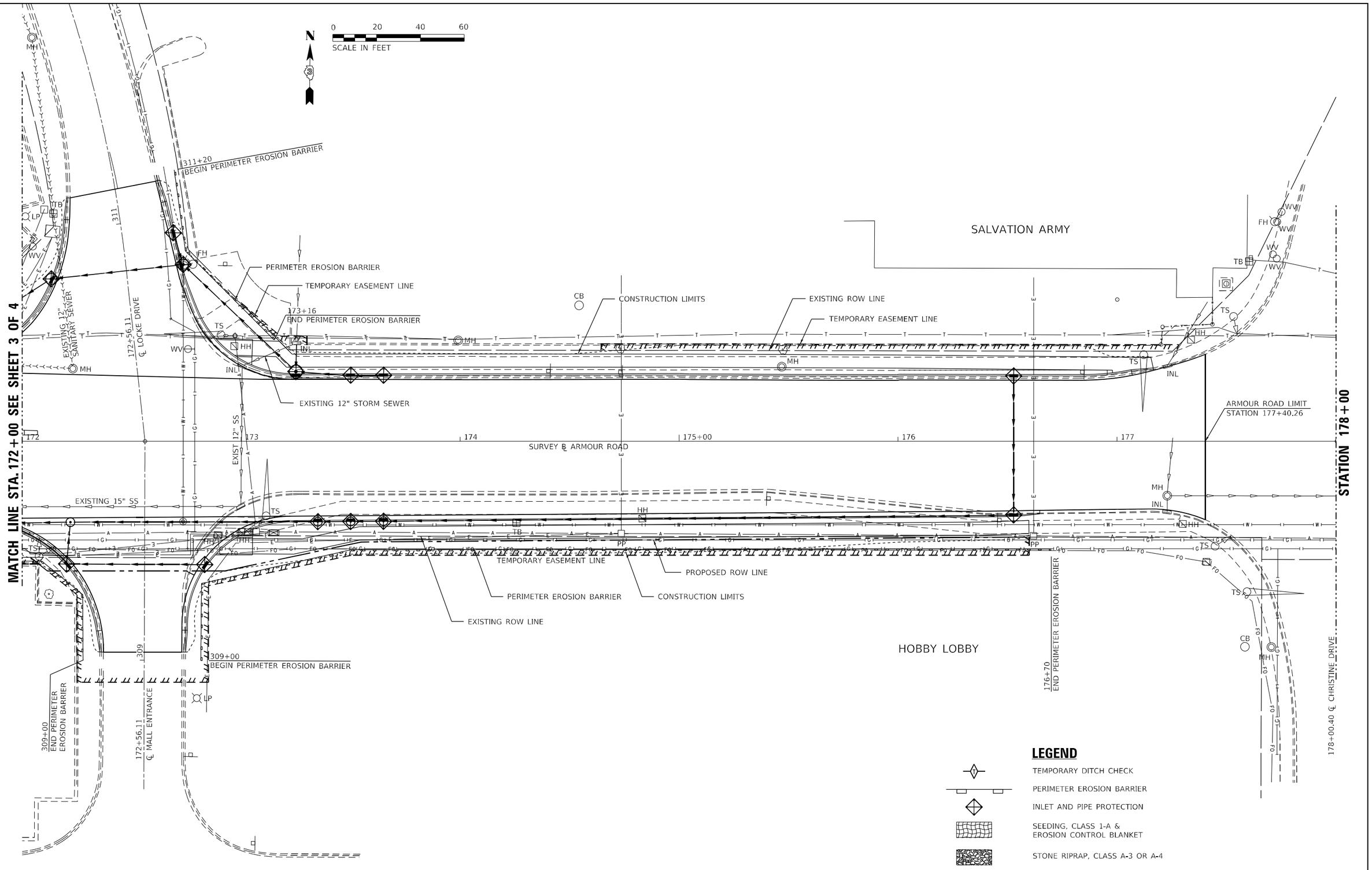
USER NAME = rjo	DESIGNED - JHM	REVISED -
ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -
PLOT DATE = 1/27/2022	DATE - 11/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN ARMOUR ROAD

SCALE: 1" = 20' | SHEET 3 OF 4 SHEETS | STA. 166+00.00 TO STA. 172+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	230
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		



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ESCA CONSULTANTS, INC.

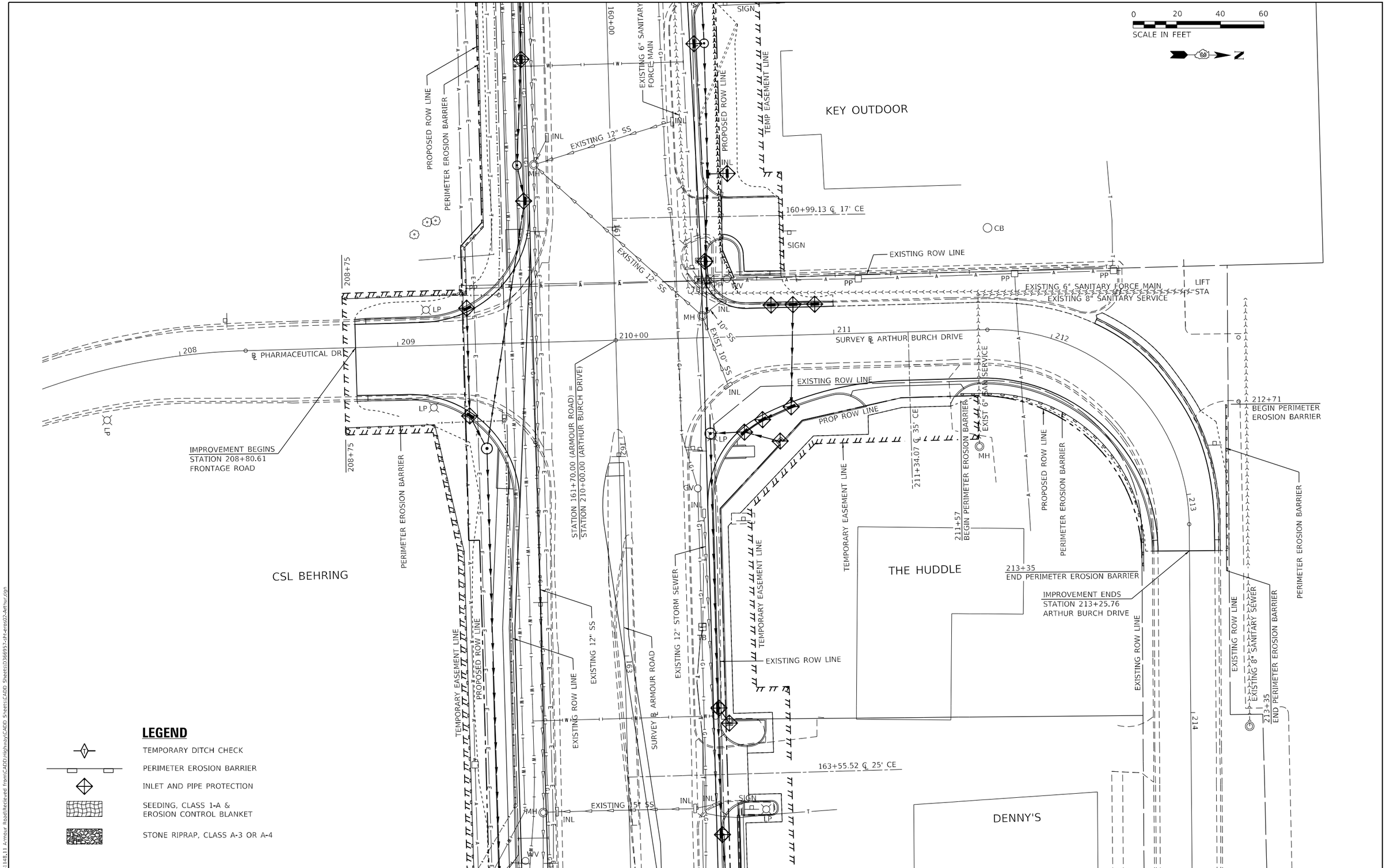
USER NAME = rjo	DESIGNED - JHM	REVISED -
ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -
PLOT DATE = 1/27/2022	DATE - 11/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN ARMOUR ROAD

SCALE: 1" = 20' | SHEET 4 OF 4 SHEETS | STA. 172+00.00 TO STA. 178+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	231
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		



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ESCA CONSULTANTS, INC.	USER NAME = rjo	DESIGNED - JHM	REVISED -
	ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -
	PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -
	PLOT DATE = 1/27/2022	DATE - 11/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

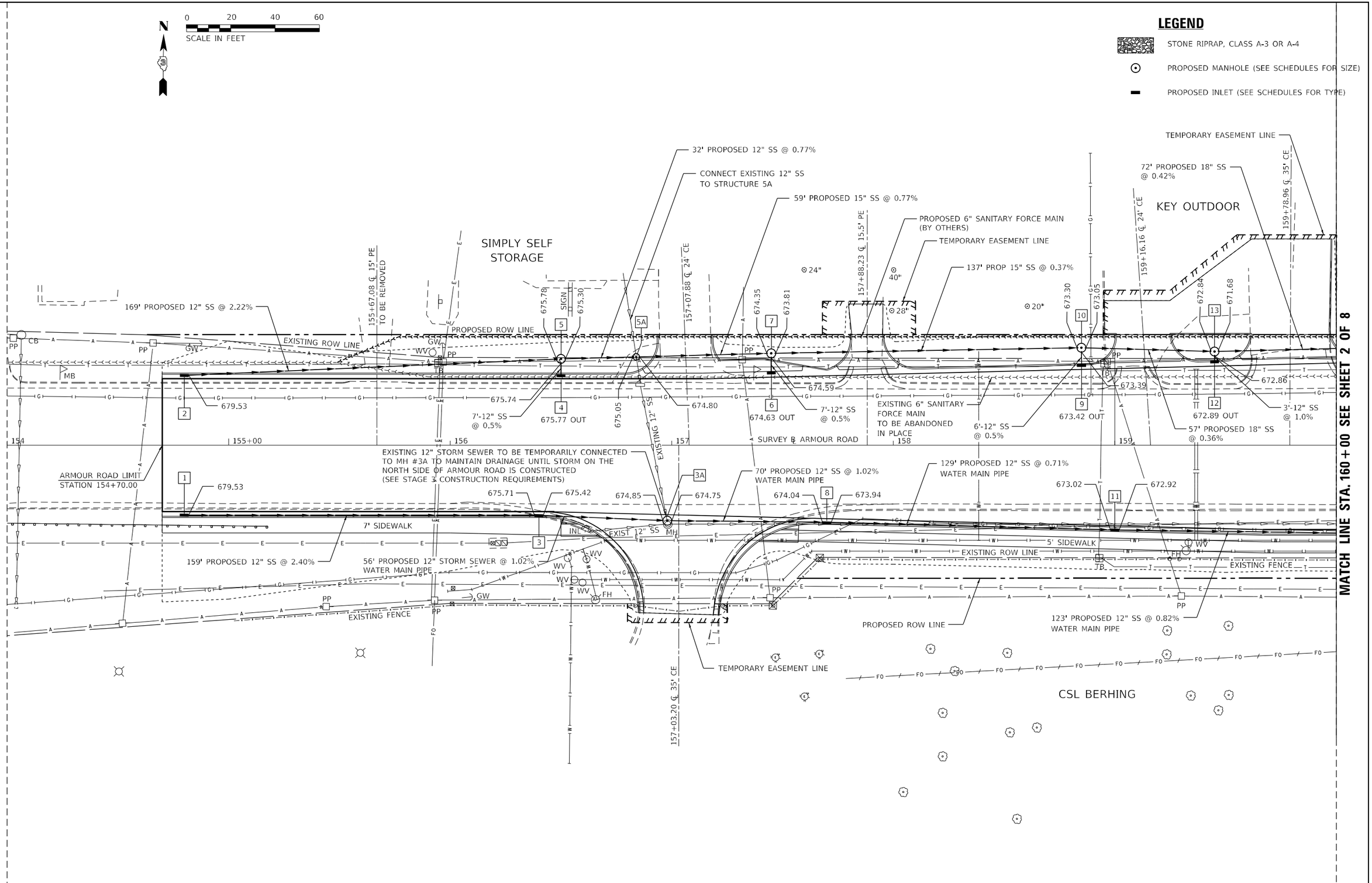
EROSION CONTROL PLAN ARTHUR BURCH

SCALE: 1" = 20' | SHEET 1 OF 1 SHEET | STA. 208+80.61 TO STA. 213+25.76

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	232

CONTRACT NO. 66957

ILLINOIS | FED. AID PROJECT



ESCA CONSULTANTS, INC.	USER NAME = rjo	DESIGNED - JHM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN	F.A.P. RTE. 840	SECTION 140N	COUNTY KANKAKEE	TOTAL SHEETS 430	SHEET NO. 233
	ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -					CONTRACT NO. 66957		
	PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -							
	PLOT DATE = 1/28/2022	DATE - 11/20	REVISED -		SCALE: 1" = 20' SHEET 1 OF 8 SHEETS STA. 154+00.00 TO STA. 160+00.00			ILLINOIS FED. AID PROJECT		

MODEL: PLOT
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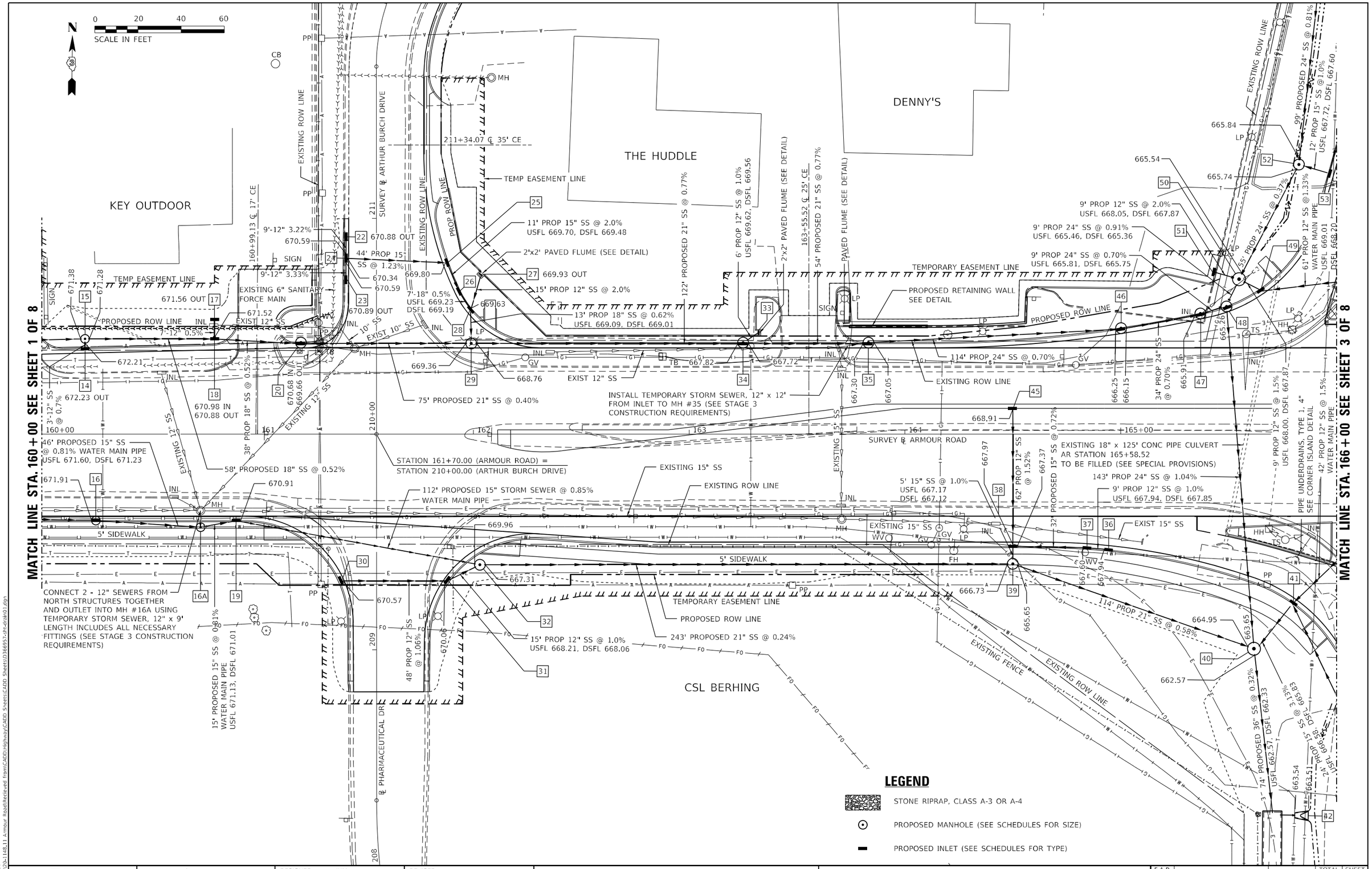

USER NAME = rjo	DESIGNED - JHM	REVISED -	
ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -	
PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -	
PLOT DATE = 1/28/2022	DATE - 11/20	REVISED -	

ESCA CONSULTANTS, INC.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN

SCALE: 1" = 20' | SHEET 2 OF 8 SHEETS | STA. 160+00.00 TO STA. 166+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	234
		CONTRACT NO. 66957		
	ILLINOIS FED. AID PROJECT			

MODEL: PLOT01
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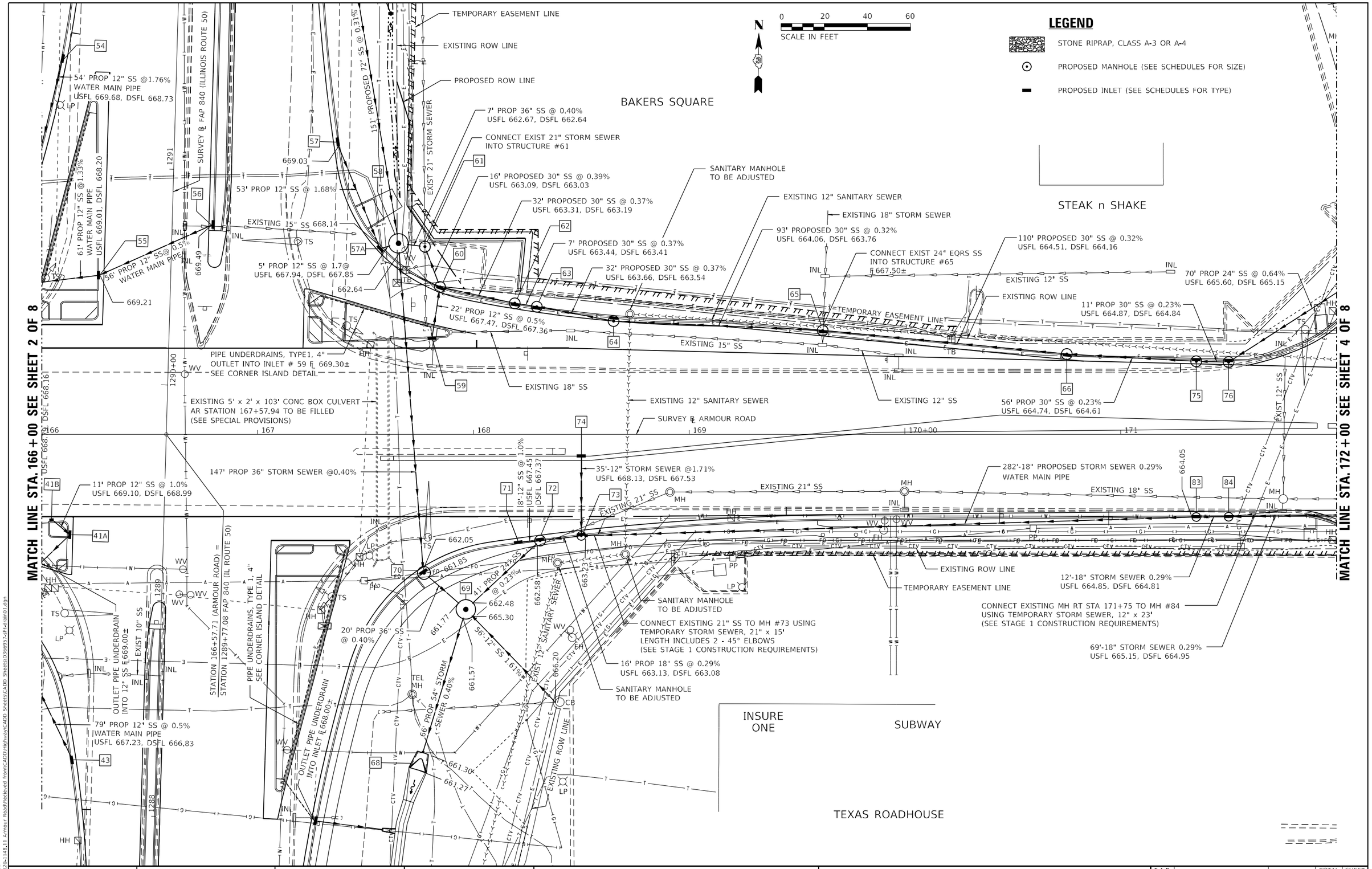

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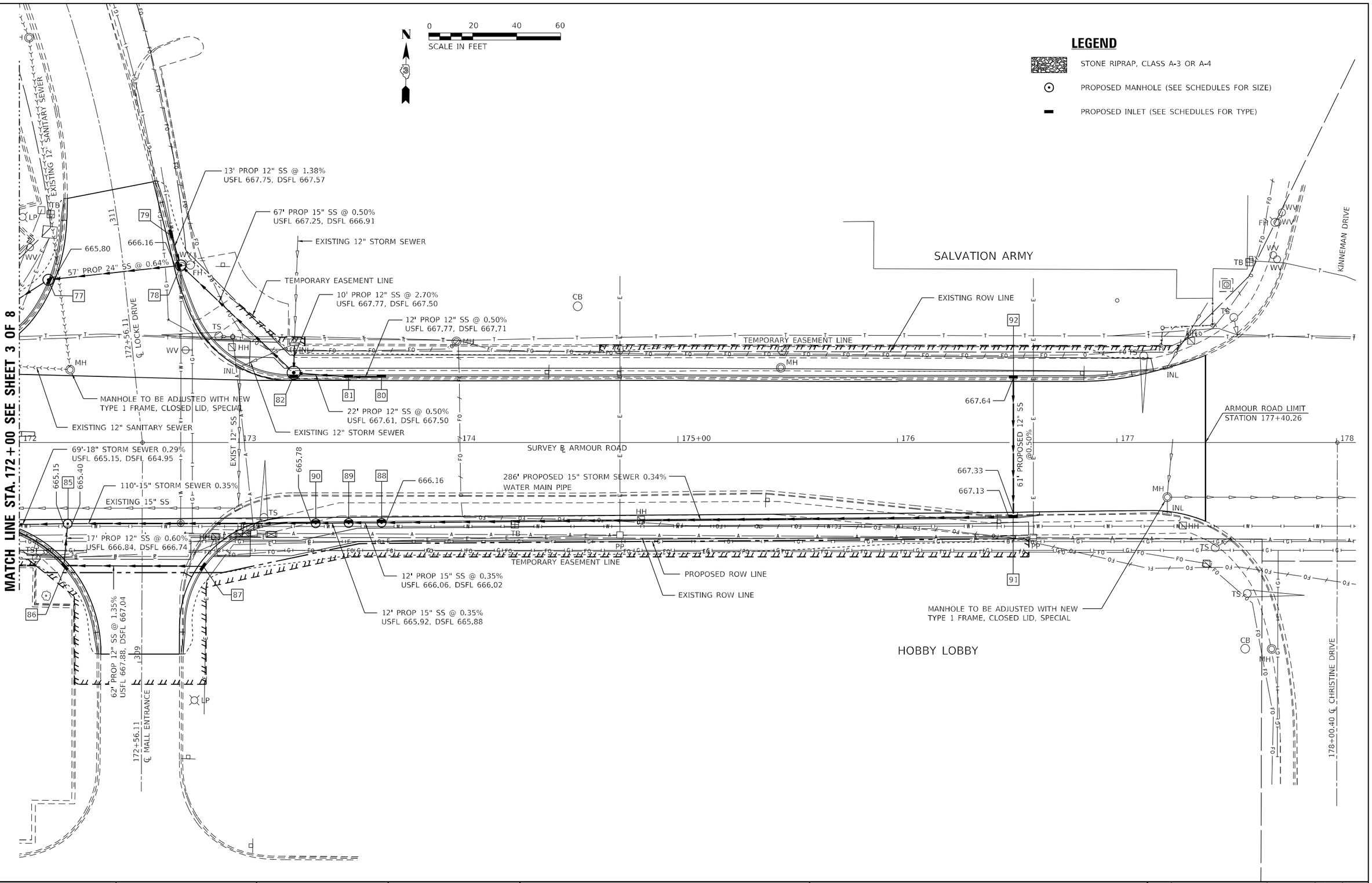
ESCA CONSULTANTS, INC.	USER NAME = rjo	DESIGNED - JHM	REVISED -
	ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -
	PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -
	PLOT DATE = 1/28/2022	DATE - 11/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN

SCALE: 1" = 20' | SHEET 3 OF 8 SHEETS | STA. 166+00.00 TO STA. 172+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	235
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		



MODEL: PLOT03
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ESCA CONSULTANTS, INC.	USER NAME = rjo	DESIGNED - JHM	REVISED -
	ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -
	PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -
	PLOT DATE = 1/28/2022	DATE - 11/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN

SCALE: 1" = 20' | SHEET 4 OF 8 SHEETS | STA. 172+00.00 TO STA. 178+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	236
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	

0 20 40 60
SCALE IN FEET

LEGEND

- STONE RIPRAP, CLASS A-3 OR A-4
- PROPOSED MANHOLE (SEE SCHEDULES FOR SIZE)
- PROPOSED INLET (SEE SCHEDULES FOR TYPE)

CSL BEHRING

EXISTING ROW LINE
EXISTING FENCE
EXISTING 18" SS
EXISTING 15" SS
EXISTING 15" SS
EXISTING 42" SS
EXISTING 12" SANITARY SEWER
EXISTING SANITARY SEWER
EXISTING 12" SANITARY SEWER TO BE REMOVED
EXISTING ROW LINE
PROPOSED SANITARY MANHOLE (BY OTHERS)
PROPOSED SANITARY MANHOLE (BY OTHERS)
PROP 12" SANITARY SEWER (BY OTHERS)
PROPOSED 12" SANITARY SEWER (BY OTHERS)
76' PROPOSED 42" SS @ 0.42%
15' PROP 42" STORM SEWER @ 0.42%
19' PROP 12" STORM SEWER @ 0.5%
20' PROP 12" STORM SEWER @ 0.5%
48' PROP 12" SS @ 0.42%
42" STORM SEWER TO BE REMOVED
SANITARY MANHOLE TO BE REMOVED
PAVED DITCH, TYPE A-15
TRANSITION PAVED DITCH TO END SECTION (SEE DETAIL)
1276+14.23 ℄ 23' CE
1276+49.69 ℄ 24' CE
SURVEY ℄ FAP 840 (ILLINOIS ROUTE 50)
MATCH LINE STA. 1281+00 SEE SHEET 6 OF 8
MIDLAND STATE BANK
MEIJER GAS STATION
APPLEBEE'S
Mc DONALD'S
657.97
661.27
660.31
658.28
658.48
658.54
658.58
659.90
659.87
660.00
660.30
660.20
660.17
1275+00
1276
1277
1278
1279
1280+00

MODEL: PLOT04
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D3669937-cht-draft01.dgn

ESCA CONSULTANTS, INC.

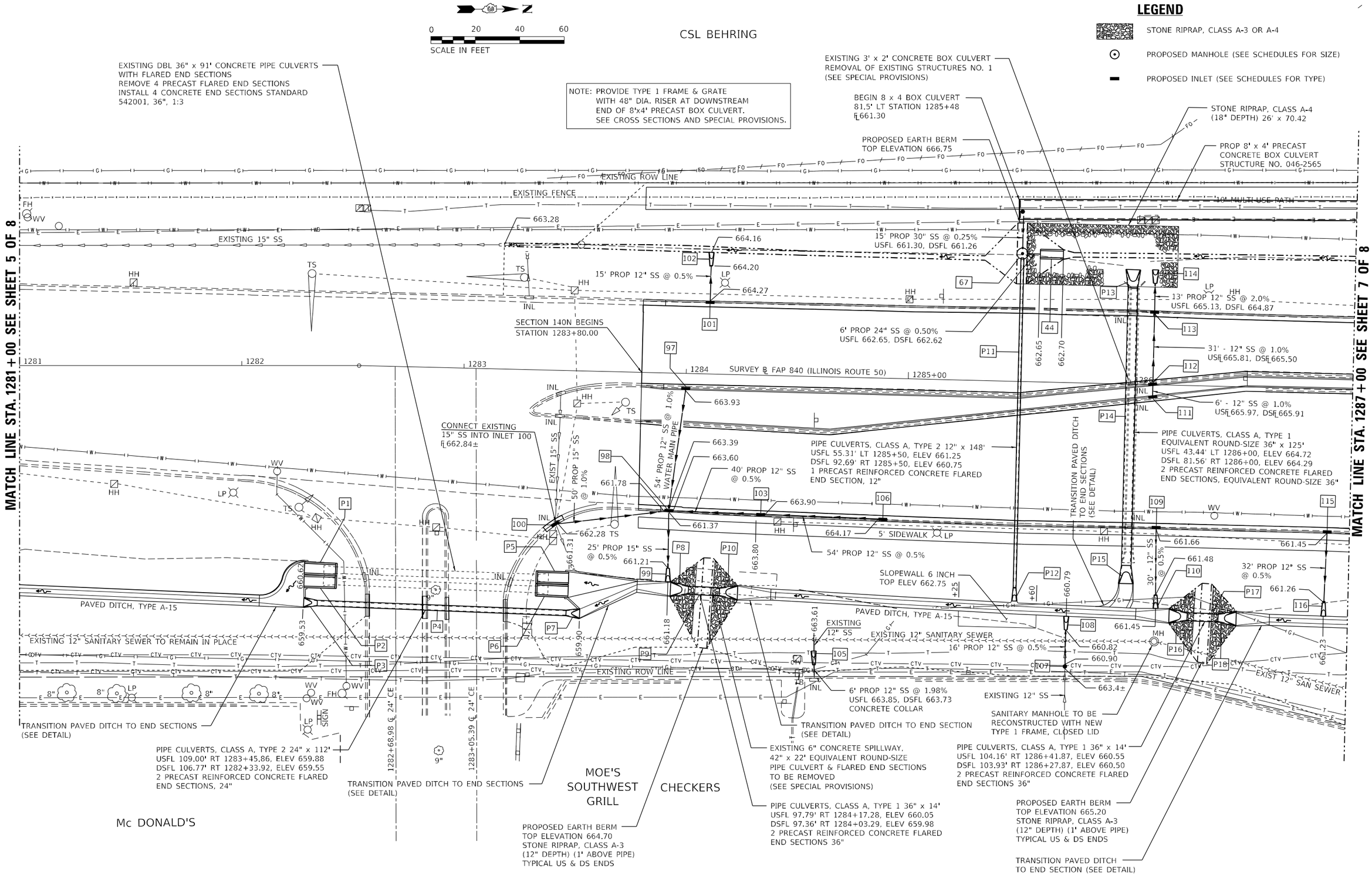
USER NAME = rjo	DESIGNED - JHM	REVISED -
ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -
PLOT DATE = 1/28/2022	DATE - 11/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN

SCALE: 1" = 20' | SHEET 5 OF 8 SHEETS | STA. 178+00.00 TO STA. 184+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	237
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		



ESCA CONSULTANTS, INC.	USER NAME = rjo	DESIGNED - JHM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN
	ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -		
	PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -		SCALE: 1" = 20' SHEET 6 OF 8 SHEETS STA. 178+00.00 TO STA. 184+00.00
	PLOT DATE = 1/28/2022	DATE - 11/20	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	238
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	

MODEL: PLOT05
FILE NAME: P:\20-1148.1\ Armour Road\Received from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-dra1n01.dgn

MATCH LINE STA. 1287+00 SEE SHEET 6 OF 8

MATCH LINE STA. 1293+00 SEE SHEET 8 OF 8

END 8 x 4 BOX CULVERT
86.5' LT STATION 1288+00
℄ 662.00

PROP 8'-x 4' PRECAST
CONCRETE BOX CULVERT
STRUCTURE NO. 046-2565

CONSTRUCTION LIMITS

EXISTING FENCE

EXISTING ROW LINE

10' MULTI-USE PATH

7' PROP 24" SS @ 0.50%
USFL 663.58, DSFL 663.54

74' PROPOSED 36" SS @ 0.32%
USFL 662.57, DSFL 662.33

24' PROP 15" SS @ 3.13%
USFL 666.58, DSFL 665.83

79' PROP 12" SS @ 0.5%
WATER MAIN PIPE
USFL 667.23, DSFL 666.83

114' PROP 21" SS @ 0.58%

155' PROPOSED 24" SS @ 1.04%

PIPE UNDERDRAINS, TYPE 1, 4"
SEE CORNER ISLAND DETAIL

42' PROP 12" SS @ 1.5%
WATER MAIN PIPE
USFL 668.29, DSFL 668.16

OUTLET PIPE UNDERDRAIN
INTO 12" SS ℄ 669.00±

EXIST 10" SS

11' PROP 12" SS @ 1.0%
USFL 669.10, DSFL 668.99

STATION 1289+77.08 FAP 840 (IL ROUTE 50) =
STATION 166+57.71 (ARMOUR ROAD)

PIPE UNDERDRAINS, TYPE 1, 4"
SEE CORNER ISLAND DETAIL

OUTLET PIPE UNDERDRAIN
INTO INLET ℄ 668.00±

5' SIDEWALK

EXISTING 18" SS

31' PROP 12" SS
@ 0.5%

PAVED DITCH, TYPE A-15

TRANSITION PAVED DITCH
TO END SECTION (SEE DETAIL)

66' PROP 54" STORM
SEWER 0.40%

EXISTING 12" SANITARY SEWER

EXISTING 12" SS

56' 12" SS @ 1.61%

EXISTING ROW LINE

16' PROP 18" SS @ 0.29%
USFL 663.13, DSFL 663.08

20' PROP 36"
SS @ 0.40%

41' PROP 24" SS
@ 0.23%

8'-12" SS @ 1.0%
USFL 667.45
DSFL 666.37

35'-12" SS 1.71%

EXIST 21" SS

147' PROPOSED 36" SS @ 0.40%

SURVEY ℄ ARMOUR ROAD

EXIST 18" SS

22' PROP 12" SS @ 0.5%
USFL 667.47, DSFL 667.36

PROPOSED ROW LINE

9' PROP 24" SS @ 0.70%
USFL 665.81, DSFL 665.75

9' PROP 24" SS @ 0.91%
USFL 665.46, DSFL 665.36

34' PROP 24" SS
@ 0.70%

9' PROP 12" SS @ 2.0%
USFL 668.05, DSFL 667.87

55' PROP 24" SS @ 0.37%

9' PROP 12" SS @ 1.5%
USFL 668.00, DSFL 667.87

61' PROP 12" SS @1.33%
WATER MAIN PIPE
USFL 669.01, DSFL 668.20

PIPE UNDERDRAINS, TYPE 1, 4"
OUTLET INTO 12" STORM SEWER
SEE CORNER ISLAND DETAIL

54' PROP 12" SS @1.76%
WATER MAIN PIPE
USFL 669.68, DSFL 668.73

56' PROP 12" SS @ 0.5%
WATER MAIN PIPE

8" SS

10" SS

EXISTING 15" SS

13' PROP 12" SS @ 18.85%
USFL 670.98, DSFL 668.53

EXISTING ROW LINE

100' PROPOSED 24" SS @ 0.81%

12' PROP 15" SS @1.0%
USFL 667.72, DSFL 667.60

EXIST 12" SS

50' PROP 24" SS @ 0.81%

187' PROP 12" SS
@ 0.81%

18' PROP 15" SS @ 2.0%
USFL 669.55, DSFL 669.19

13' PROPOSED 18" STORM SEWER
USFL FIELD SET, DSFL 667.60
CONCRETE COLLAR

SURVEY ℄ FAP 840 (ILLINOIS ROUTE 50)

BEGIN 10 x 5 BOX CULVERT
84.61' RT STATION 1292+21.06
℄ 664.27

PROP 10' x 5' PRECAST
CONCRETE BOX CULVERT
STRUCTURE NUMBER 046-2564

6' PROPOSED 15" SS @ 1.0%
USFL 669.43, DSFL 669.37

98' PROP 15" SS @ 1.19%

219' PROP 72" SS @ 0.31%

151' PROPOSED 72" SS @ 0.31%

752' PROP 12" SS
@ 1.0%

53' PROP 12" SS @ 1.68%

5' PROP 12" SS @ 1.7%
USFL 667.94, DSFL 667.85

6' PROP 36" SS @ 0.30%
CONNECTING MH TO BOX
- USFL 664.28, DSFL 664.27

TYPE 1 FRAME & GRATE WITH
48" RISER
SEE STATION CROSS SECTIONS
SEE SPECIAL PROVISIONS

TEMPORARY EASEMENT LINE

EXISTING ROW LINE

7' PROP 36" SS @ 0.40%
USFL 662.67, DSFL 662.64

CONNECT EXISTING 21" STORM SEWER
INTO STRUCTURE NUMBER 61

16' PROPOSED 30" SS @ 0.39%
USFL 663.09, DSFL 663.03

32' PROPOSED 30" SS @ 0.37%
USFL 663.31, DSFL 663.19

EXISTING 21" STORM SEWER

SCALE IN FEET
0 20 40 60

LEGEND

- STONE RIPRAP, CLASS A-3 OR A-4
- PROPOSED MANHOLE (SEE SCHEDULES FOR SIZE)
- PROPOSED INLET (SEE SCHEDULES FOR TYPE)

ESCA CONSULTANTS, INC.
CIVIL & STRUCTURAL ENGINEERS

USER NAME = rjo	DESIGNED - JHM	REVISED -
ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -
PLOT DATE = 1/28/2022	DATE - 11/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN

SCALE: 1" = 20' | SHEET 7 OF 8 SHEETS | STA. 178+00.00 | TO STA. 184+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	239
		CONTRACT NO. 66957		
		ILLINOIS FED. AID PROJECT		

MODEL: PLOT06
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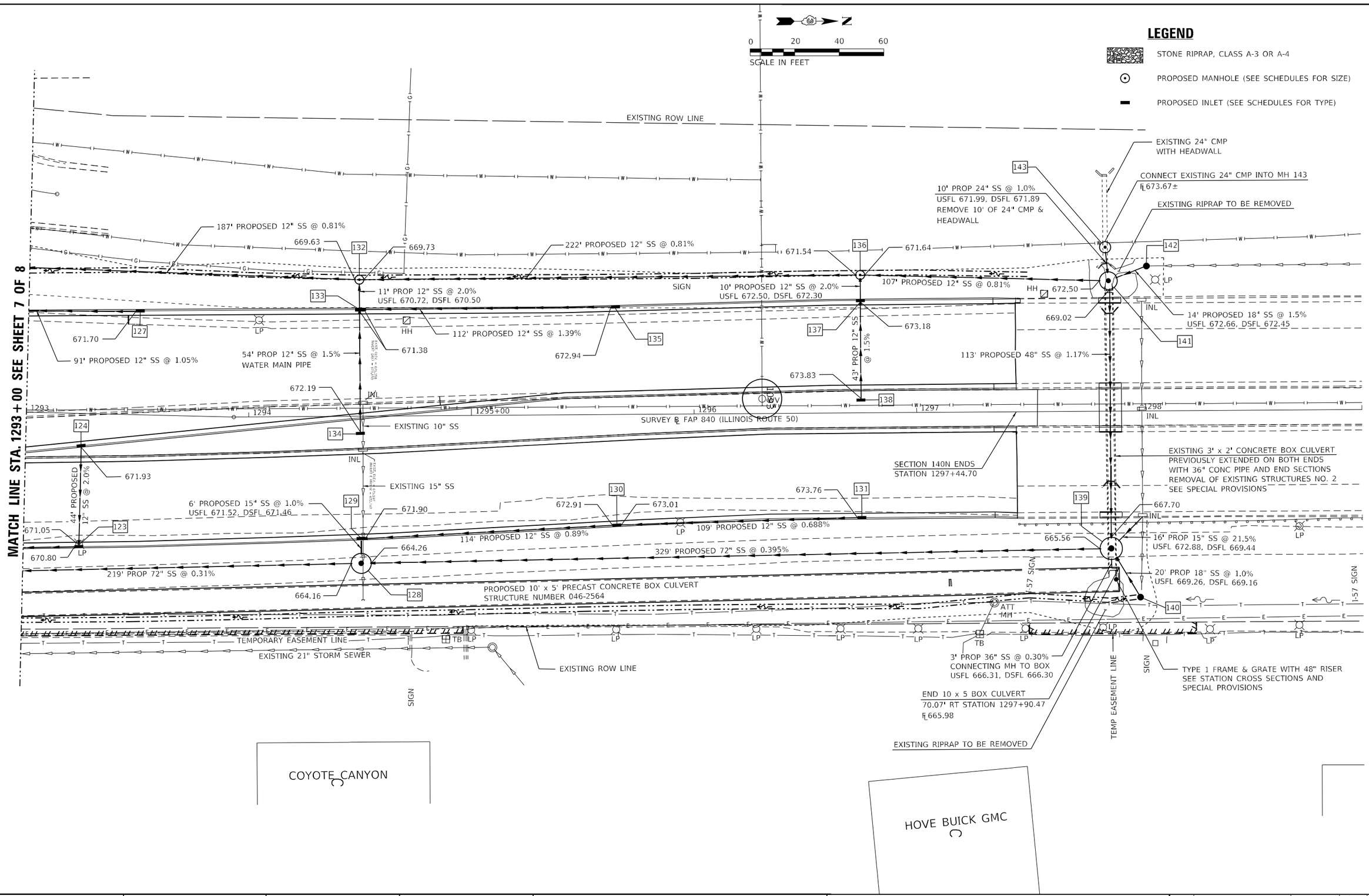

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USER NAME = rjo	DESIGNED - JHM	REVISED -	
ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -	
PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -	
PLOT DATE = 1/28/2022	DATE - 11/20	REVISED -	

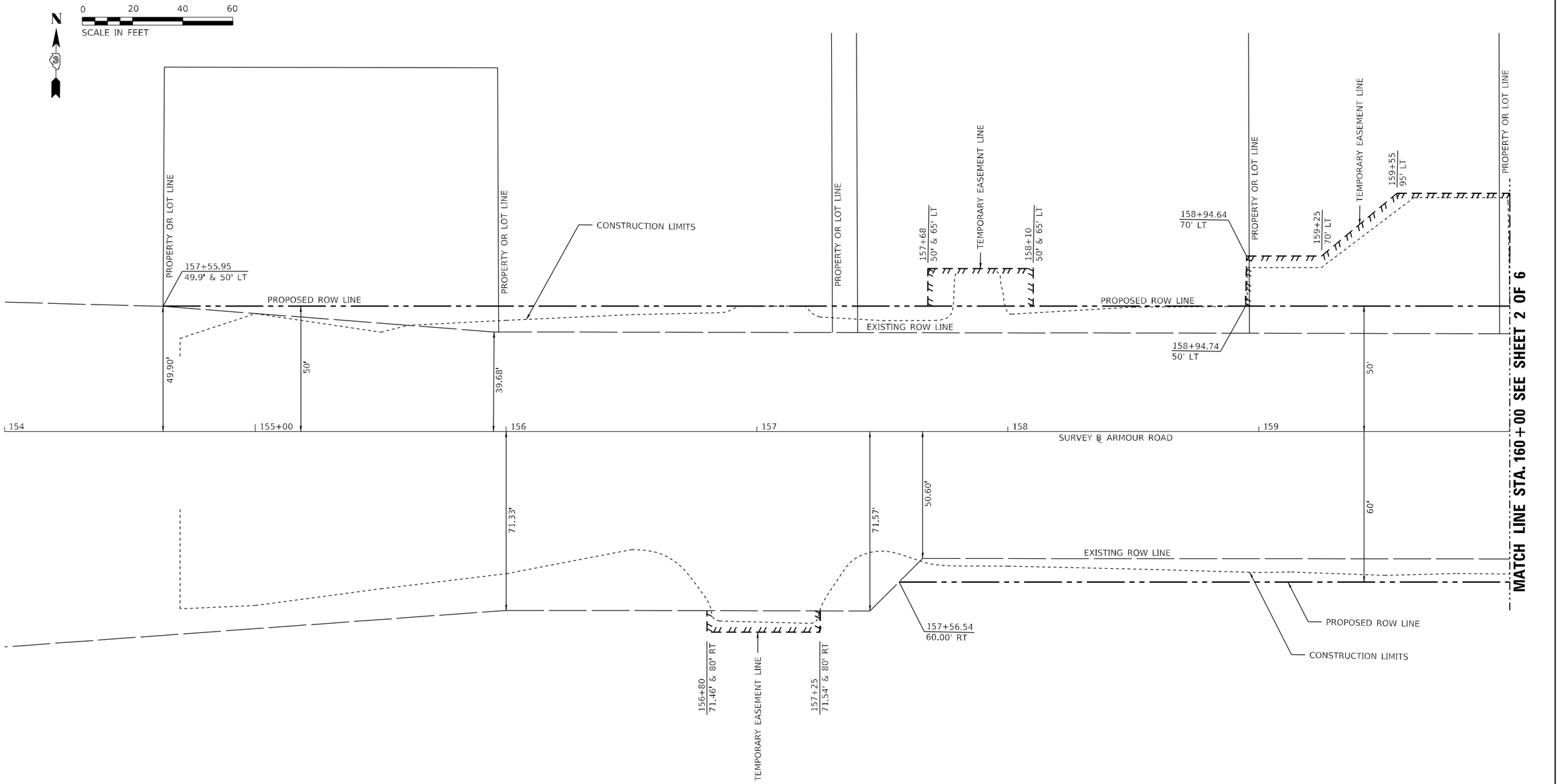
ESCA CONSULTANTS, INC.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN

SCALE: 1" = 20' | SHEET 8 OF 8 SHEETS | STA. 178+00.00 TO STA. 184+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	240
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		



MODEL: PLOT
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-ROW01.dgn

ESCA CONSULTANTS, INC.	USER NAME = rjo	DESIGNED - JHM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT OF WAY PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -			840	140N	KANKAKEE	430	241
	PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -					CONTRACT NO. 66957		
	PLOT DATE = 1/27/2022	DATE - 11/20	REVISED -		SCALE: 1" = 20' SHEET 1 OF 6 SHEETS STA. 154+00.00 TO STA. 160+00.00			ILLINOIS FED. AID PROJECT		

N

0 20 40 60
SCALE IN FEET

MATCH LINE STA. 160+00 SEE SHEET 1 OF 6

MATCH LINE STA. 166+00 SEE SHEET 3 OF 6

160+00
95' LT

160+00
70' LT

160+80
78' LT

161+28.03
78' LT

TEMPORARY EASEMENT LINE

PROPOSED ROW LINE

EXISTING ROW LINE

50'

60'

27.07'

161+28.03
55' LT

161+15
50' LT

38.80'

211
SURVEY ℄ ARTHUR BURCH DRIVE

210+00

26.77'

23.23'

CONSTRUCTION LIMITS

EXISTING ROW LINE

161+85.07
130' LT

161+85.06
165.16' LT

162+05
165' LT

162+61.65
238.32' LT

75' R

PROPOSED ROW LINE

CONSTRUCTION LIMITS

TEMPORARY EASEMENT LINE

161+94.14
84.36' LT

23.02'

PROPOSED ROW LINE

162+05
90' LT

CONSTRUCTION LIMITS

162+34.08
60' LT

TEMPORARY EASEMENT LINE

162+33.57
45.58' LT

43.69'

160+00 | 161 | 210+00 | 162 | 163 | 164 | 165+00

PROPERTY LINE

163+16
60' & 75' LT

TEMPORARY EASEMENT LINE

CONSTRUCTION LIMITS

EXISTING ROW LINE

164+11.11
45.58' LT

164+56
50' LT

PROPOSED ROW LINE

165+17.87
60.86' LT

165+15
75' & 85' LT

EXISTING ROW LINE

TEMPORARY EASEMENT LINE

1291+98.56
84.39' LT

1292+06.36
90.88' RT

165+48.78
85' LT

165+45.90
72' LT

119.38'

43.12'

SURVEY ℄ ARMOUR ROAD

51.17'

EXISTING ROW LINE

162+45
65' & 70' RT

PROPOSED ROW LINE

161+00
60.00' RT

161+10
70' RT

161+30
70' RT

209
SURVEY ℄ PHARMACEUTICAL DRIVE

TEMPORARY EASEMENT LINE

162+50
75' RT

PROPOSED ROW LINE

CONSTRUCTION LIMITS

164+08.49
65' RT

164+21.93
75' RT

EXISTING ROW LINE

161+95
85' RT

161+30
125' RT

161+95
125' RT

MODEL: PLOT01
FILE NAME: P:\06-1148.11 Armour Road\Received from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-dht-ROW01.dgn

ESCA CONSULTANTS, INC.
CIVIL & STRUCTURAL ENGINEERS

USER NAME = rjo	DESIGNED - JHM	REVISED -
ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -
PLOT DATE = 1/27/2022	DATE - 11/20	REVISED -

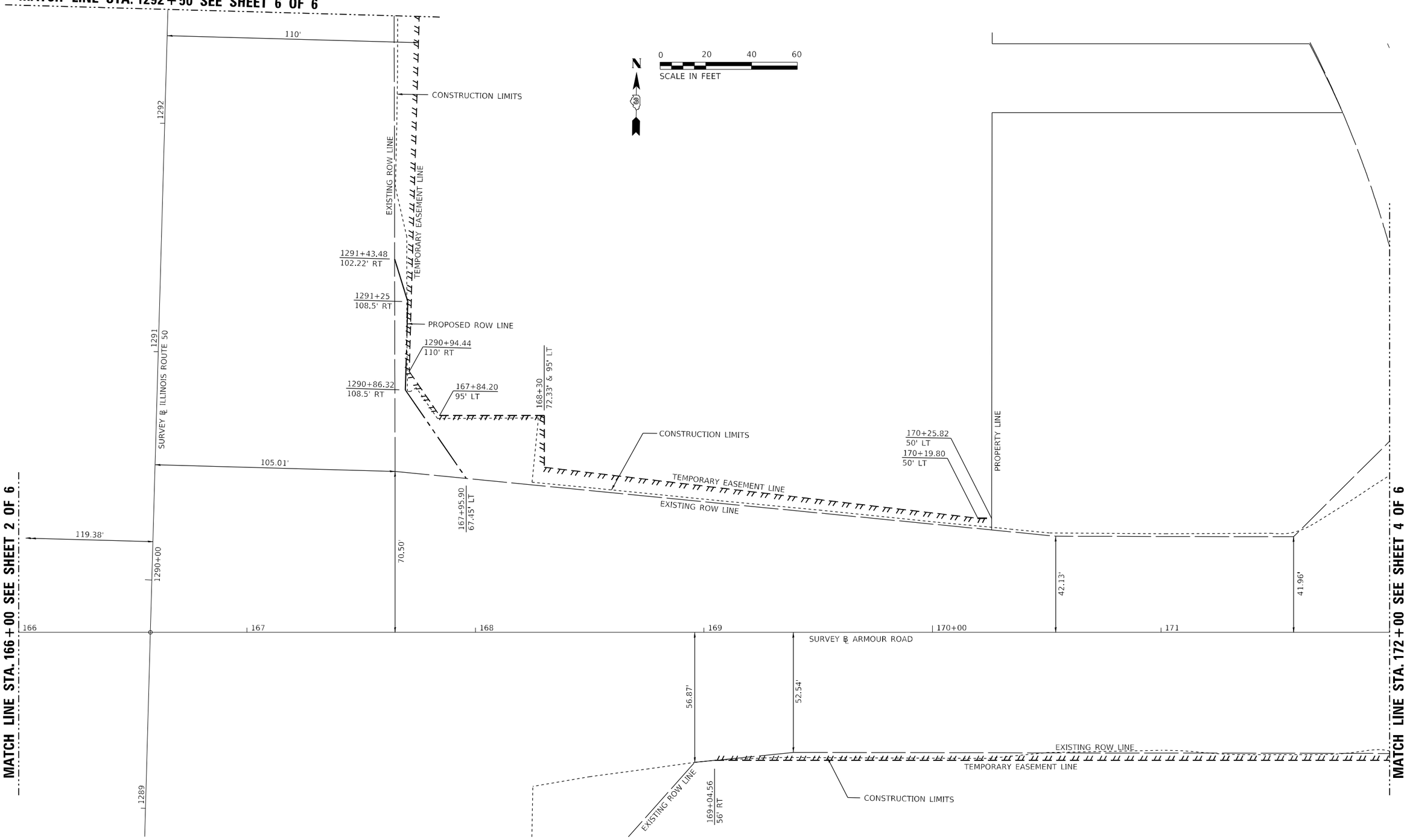
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLAN

SCALE: 1" = 20' | SHEET 2 OF 6 SHEETS | STA. 160+00.00 TO STA. 166+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	242
		CONTRACT NO. 66957		
ILLINOIS	FED. AID PROJECT			

MATCH LINE STA. 1292+50 SEE SHEET 6 OF 6



MATCH LINE STA. 166+00 SEE SHEET 2 OF 6

MATCH LINE STA. 172+00 SEE SHEET 4 OF 6

MODEL: PLOT02
FILE NAME: P:\20s-148.11 Armour Road\Received from\CADD\Highway\CADD Sheets\CADD Sheets\D1366937-sht-ROW01.dgn

ESCA CONSULTANTS, INC.

USER NAME = rjo	DESIGNED - JHM	REVISED -
ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -
PLOT DATE = 1/27/2022	DATE - 11/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLAN

SCALE: 1" = 20' | SHEET 3 OF 6 SHEETS | STA. 166+00.00 TO STA. 172+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	243
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	

N

0 20 40 60
SCALE IN FEET

MATCH LINE STA. 172+00 SEE SHEET 3 OF 6

30.45'
311
29.12'
LOCKE DRIVE
173+00
63.30' LT
TEMPORARY EASEMENT LINE
173+18
48' LT
173+30
41.81' & 48' LT
CONSTRUCTION LIMITS
PROPERTY LINE
174+64.36
44.59' LT
174+64.31
41.59' LT
177+28.41
44.16' LT
TEMPORARY EASEMENT LINE
EXISTING ROW LINE
41.83'
41.16'
172
173
174
175+00
176
177
℄ SURVEY ℄ ARMOUR ROAD

172+03.74
52.98' RT
172+07.49
55.98' RT
172+11.52
59.21' RT
43.10' & 53.10'
173+54.67
45.94' RT
EXISTING ROW LINE
PROPOSED ROW LINE
TEMPORARY EASEMENT LINE
173+50.29
52' RT
CONSTRUCTION LIMITS
176+57.99
43.73' RT
43.91'
176+59.87
44' & 52' RT
172+25
70' RT
309
MALL ENTRANCE
172+92.44
59.20' RT
172+85
65.90' RT
TEMPORARY EASEMENT LINE
172+25
110' RT
172+85
110' RT

MODEL: PLOT03
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366937-sht-ROW01.dgn

ESCA CONSULTANTS, INC.

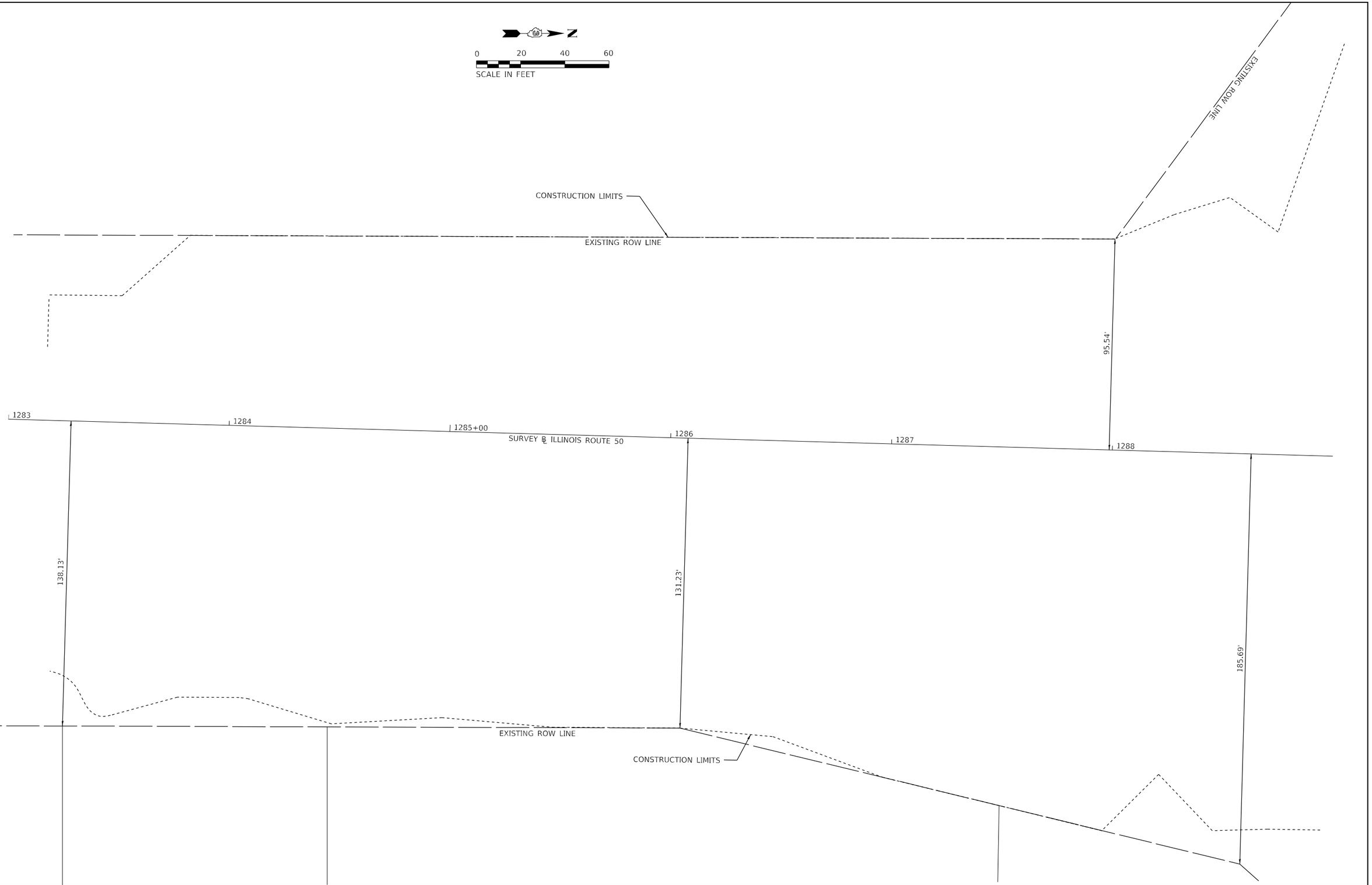
USER NAME = rjo	DESIGNED - JHM	REVISED -	
ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -	
PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -	
PLOT DATE = 1/27/2022	DATE - 11/20	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLAN

SCALE: 1" = 20' | SHEET 4 OF 6 SHEETS | STA. 172+00.00 TO STA. 178+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	244
		CONTRACT NO. 66957		
	ILLINOIS FED. AID PROJECT			



MODEL: PLOT04
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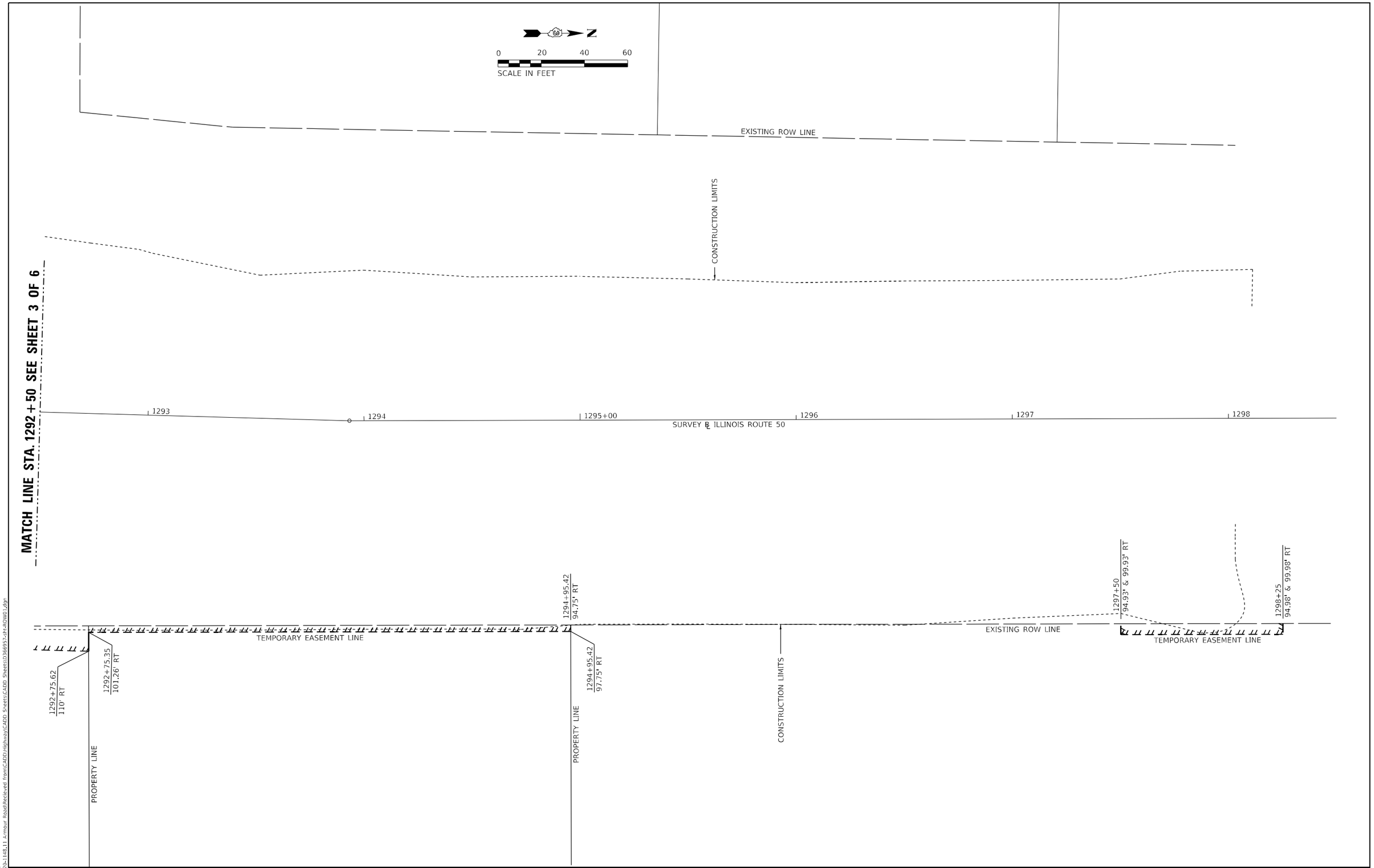
ESCA CONSULTANTS, INC.	USER NAME = rjo	DESIGNED - JHM	REVISED -
	ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -
	PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -
	PLOT DATE = 1/27/2022	DATE - 11/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLAN

SCALE: 1" = 20' | SHEET 5 OF 6 SHEETS | STA. 1283+00.00 | TO STA. 1289+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	245
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		



MODEL: PLOT05
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ESCA CONSULTANTS, INC.

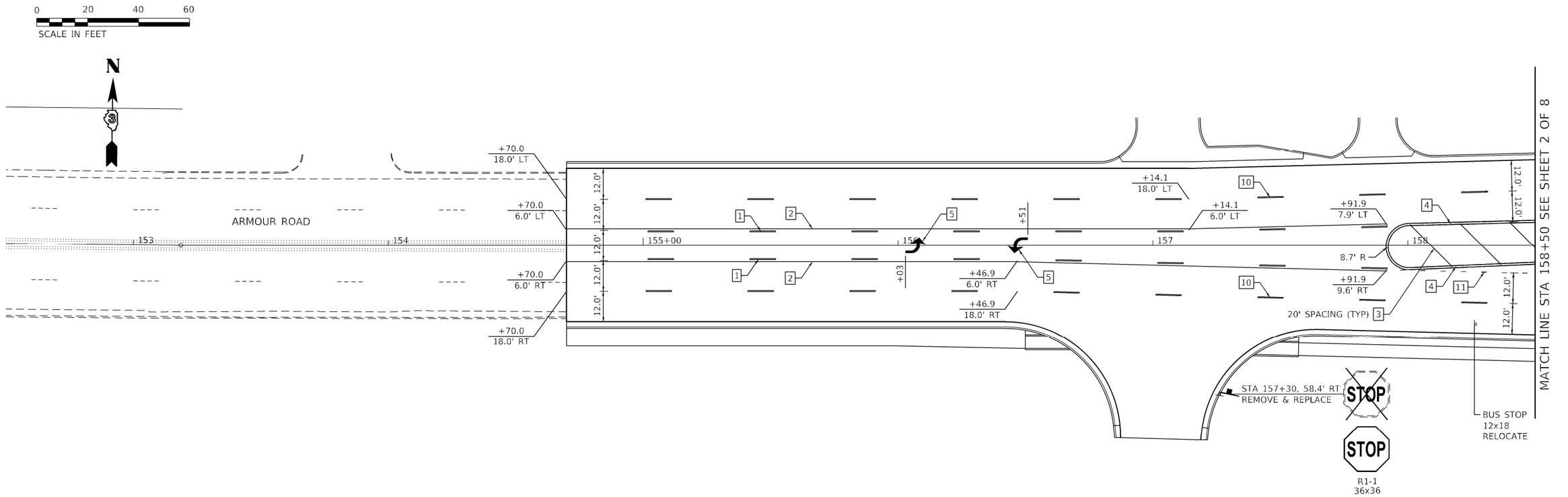
USER NAME = rjo	DESIGNED - JHM	REVISED -	
ESCA PROJECT NO. 1321.06	DRAWN - JHM	REVISED -	
PLOT SCALE = 0.1667 ' / in.	CHECKED - JMS	REVISED -	
PLOT DATE = 1/27/2022	DATE - 11/20	REVISED -	

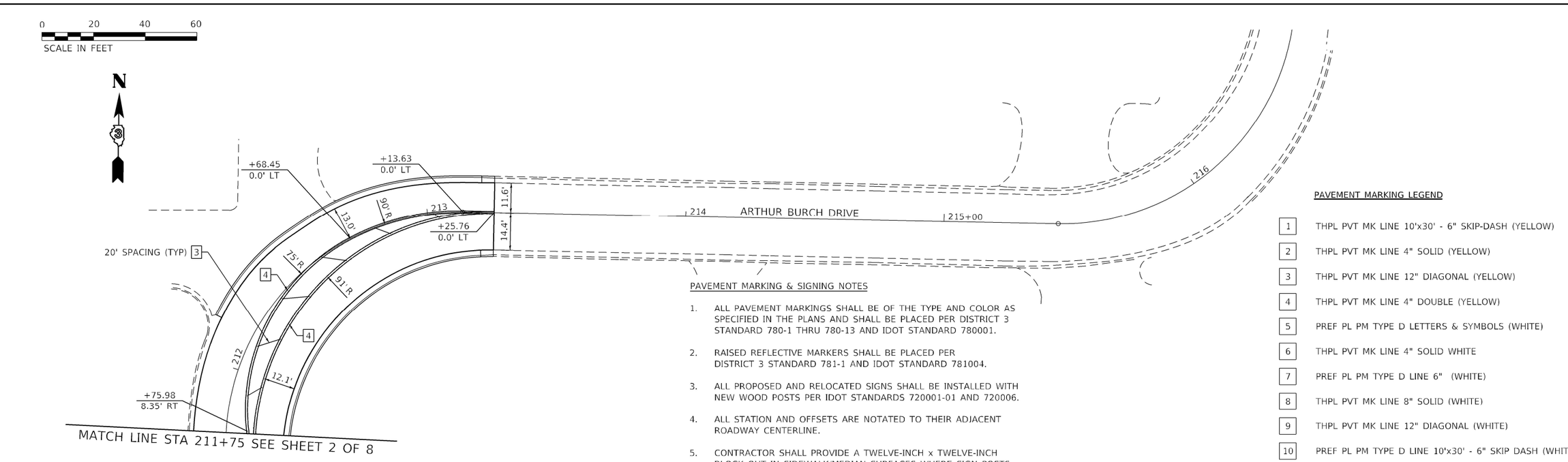
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLAN

SCALE: 1" = 20' | SHEET 6 OF 6 SHEETS | STA. 1292+50.00 TO STA. 1298+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	246
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		





PAVEMENT MARKING & SIGNING NOTES

1. ALL PAVEMENT MARKINGS SHALL BE OF THE TYPE AND COLOR AS SPECIFIED IN THE PLANS AND SHALL BE PLACED PER DISTRICT 3 STANDARD 780-1 THRU 780-13 AND IDOT STANDARD 780001.
2. RAISED REFLECTIVE MARKERS SHALL BE PLACED PER DISTRICT 3 STANDARD 781-1 AND IDOT STANDARD 781004.
3. ALL PROPOSED AND RELOCATED SIGNS SHALL BE INSTALLED WITH NEW WOOD POSTS PER IDOT STANDARDS 720001-01 AND 720006.
4. ALL STATION AND OFFSETS ARE NOTATED TO THEIR ADJACENT ROADWAY CENTERLINE.
5. CONTRACTOR SHALL PROVIDE A TWELVE-INCH x TWELVE-INCH BLOCK OUT IN SIDEWALK/MEDIAN SURFACES WHERE SIGN POSTS ARE TO BE INSTALLED. BLOCK OUT TO MATCH ADJACENT CONSTRUCTION AFTER SIGN POST IS INSTALLED. THIS WORK SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

PAVEMENT MARKING LEGEND

1	THPL PVT MK LINE 10'x30' - 6" SKIP-DASH (YELLOW)
2	THPL PVT MK LINE 4" SOLID (YELLOW)
3	THPL PVT MK LINE 12" DIAGONAL (YELLOW)
4	THPL PVT MK LINE 4" DOUBLE (YELLOW)
5	PREF PL PM TYPE D LETTERS & SYMBOLS (WHITE)
6	THPL PVT MK LINE 4" SOLID WHITE
7	PREF PL PM TYPE D LINE 6" (WHITE)
8	THPL PVT MK LINE 8" SOLID (WHITE)
9	THPL PVT MK LINE 12" DIAGONAL (WHITE)
10	PREF PL PM TYPE D LINE 10'x30' - 6" SKIP DASH (WHITE)
11	THPL PVT MK LINE 2'x6' - 8" SKIP DASH (WHITE)
12	PREF PL PM TYPE D LINE 24" STOP BAR (WHITE)

MODEL: PMT_Sheet01
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-pmk01.dgn

Kaskaskia Engineering Group, LLC
PROFESSIONAL SECRETARY(S)
Illinois Professional Design Firm
Professional Engineering Group

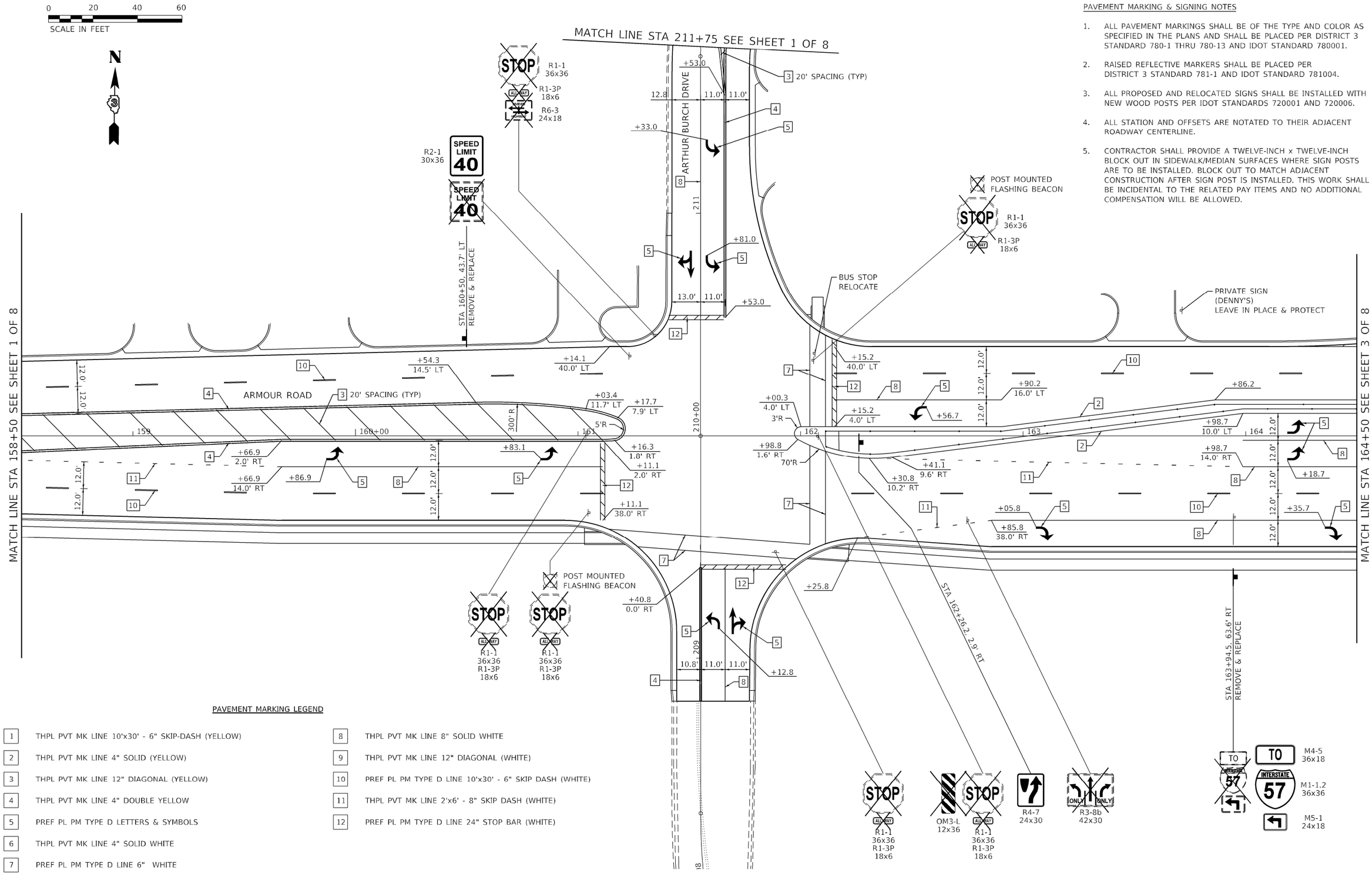
USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 20' | SHEET 1 OF 8 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	247
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



PAVEMENT MARKING & SIGNING NOTES

1. ALL PAVEMENT MARKINGS SHALL BE OF THE TYPE AND COLOR AS SPECIFIED IN THE PLANS AND SHALL BE PLACED PER DISTRICT 3 STANDARD 780-1 THRU 780-13 AND IDOT STANDARD 780001.
2. RAISED REFLECTIVE MARKERS SHALL BE PLACED PER DISTRICT 3 STANDARD 781-1 AND IDOT STANDARD 781004.
3. ALL PROPOSED AND RELOCATED SIGNS SHALL BE INSTALLED WITH NEW WOOD POSTS PER IDOT STANDARDS 720001 AND 720006.
4. ALL STATION AND OFFSETS ARE NOTATED TO THEIR ADJACENT ROADWAY CENTERLINE.
5. CONTRACTOR SHALL PROVIDE A TWELVE-INCH x TWELVE-INCH BLOCK OUT IN SIDEWALK/MEDIAN SURFACES WHERE SIGN POSTS ARE TO BE INSTALLED. BLOCK OUT TO MATCH ADJACENT CONSTRUCTION AFTER SIGN POST IS INSTALLED. THIS WORK SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

PAVEMENT MARKING LEGEND

1	THPL PVT MK LINE 10'x30' - 6" SKIP-DASH (YELLOW)	8	THPL PVT MK LINE 8" SOLID WHITE
2	THPL PVT MK LINE 4" SOLID (YELLOW)	9	THPL PVT MK LINE 12" DIAGONAL (WHITE)
3	THPL PVT MK LINE 12" DIAGONAL (YELLOW)	10	PREF PL PM TYPE D LINE 10'x30' - 6" SKIP DASH (WHITE)
4	THPL PVT MK LINE 4" DOUBLE YELLOW	11	THPL PVT MK LINE 2'x6' - 8" SKIP DASH (WHITE)
5	PREF PL PM TYPE D LETTERS & SYMBOLS	12	PREF PL PM TYPE D LINE 24" STOP BAR (WHITE)
6	THPL PVT MK LINE 4" SOLID WHITE		
7	PREF PL PM TYPE D LINE 6" WHITE		

MODEL: PMT_Sheet02
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-pmk01.dgn

Kaskaskia Engineering Group, LLC
PROFESSIONAL SECRETARIES
Illinois Professional Design Firm
Professional Engineering Group

USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 20' | SHEET 2 OF 8 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	248
		CONTRACT NO. 66957		
		ILLINOIS FED. AID PROJECT		

0 20 40 60
SCALE IN FEET

N

MATCH LINE STA 1291+50
SEE SHEET 7 OF 8

MATCH LINE STA 1288+00
SEE SHEET 6 OF 8

MATCH LINE NE STA 164+50 SEE SHEET 2 OF 8

MATCH LINE NE STA 170+50 SEE SHEET 4 OF 8

ARMOUR ROAD

ILLINOIS 50

I1-I107a 30x36
I1-I107b 30x18
STA 1291+30, 59.9' LT RELOCATE

PRIVATE SIGN (DENNY'S)

W3-1 30x30

R10-5 30x36 LEFT ON GREEN ARROW ONLY

R10-12 30x36 LEFT TURN YIELD ON GREEN
MOUNTED ON EX MAST ARM

R3-8 30x30 ONLY

R4-7 24x30

R3-8b 42 x30

RAISED REFL PAVT MKR (TYP)
ONE-WAY CRYSTAL @ 40 FOOT CENTERS

RAISED REFL PAVT MKR (TYP)
ONE-WAY CRYSTAL @ 80 FOOT CENTERS

10' SPACING (TYP)

20' SPACING (TYP)

2' SPACING (TYP)

STA 1291+50 73.3' RT REMOVE & REPLACE

STA 1290+70.1 21.0' RT

STA 167+85, 78.0' LT REMOVE & REPLACE

STA 167+72, 11.0' RT

STA 165+63, 13.0' LT

STA 1288+84.5, 2.0' LT

STA 168+25, 62.4' LT REMOVE & REPLACE

STA 168+74, 54.8' & 58.1' RT REMOVE & REPLACE

STA 170+45, 30.0' RT REMOVE & REPLACE

M3-1 36x18
M1-I100.2 36x36
NORTH ILLINOIS 50

D3-1 36x12
Rte 50
3000N

R5-I101 24x30 END CLASS III TRUCK ROUTE

M1-6.2 24x24 KANKAKEE 44 COUNTY

R2-1 30x36 SPEED LIMIT 35

R5-I101 24x30 BEGIN CLASS III TRUCK ROUTE

R10-5 30x36 LEFT ON GREEN ARROW ONLY
MOUNTED ON EX MAST ARM

R10-12 30x36 LEFT TURN YIELD ON GREEN
MOUNTED ON EX MAST ARM

R3-I100a 24x24 RIGHT TURN LANE

ARMOUR RD

+11.7 58.4' LT
+76.1
+59.99 73.4' LT
+51.2 IL 50
+31.6 40.0' LT ARMOUR
+86.0
+48.0 IL 50
+58.0 IL 50
+49.80 ARMOUR
+69.32 68.7' LT
+73.0
+33.9
+90.1
+15.0 38.2' LT
+67.02 39.4' LT
+43.9 40.0' LT
+43.9 4.0' LT
+71.9
+34.0
+54.0 15.7' LT
+54.0 4.0' LT
+60.0
+11.0
+84.4
+50.0
+78.0 2.0' RT
+91.9
+65.0
+93.0 38.0' RT
+63.6 38.0' RT
+93.0 ARMOUR
+65.3
+63.3 50.0' RT
+77.84 67.2' RT ARMOUR
+09.2 IL 50
+96.5 IL 50
+09.4 IL 50
+11.87 38.0' RT ARMOUR
+05.6 IL 50
+97.37 94.8' RT IL 50
+73.5 88.0' RT
+81.1
+81.2
+68.5
+45.15 30.3' LT
+02.8
+84.7 13.0' RT
+04.7
+69.9 38.0' RT
+71.5 37.1' RT

12.0' 12.0' 12.0' 12.0'
7.0' 11.0' 14.0' 10.0' 38.0' 40.0' 51.2' 81.0' 31.01' 15.3'
60'R 600'R 400'R 388'R 65'R 750'R
100'R 110'R
3'R
165+00 166 167 168 169 170+00
1290+00 1289 1288

PAVEMENT MARKING & SIGNING NOTES

1. ALL PAVEMENT MARKINGS SHALL BE OF THE TYPE AND COLOR AS SPECIFIED IN THE PLANS AND SHALL BE PLACED PER DISTRICT 3 STANDARD 780-1 THRU 780-13 AND IDOT STANDARD 780001.
2. RAISED REFLECTIVE MARKERS SHALL BE PLACED PER DISTRICT 3 STANDARD 781-1 AND IDOT STANDARD 781004.
3. ALL PROPOSED AND RELOCATED SIGNS SHALL BE INSTALLED WITH NEW WOOD POSTS PER IDOT STANDARDS 720001 AND 720006.
4. ALL STATION AND OFFSETS ARE NOTATED TO THEIR ADJACENT ROADWAY CENTERLINE.
5. CONTRACTOR SHALL PROVIDE A TWELVE-INCH x TWELVE-INCH BLOCK OUT IN SIDEWALK/MEDIAN SURFACES WHERE SIGN POSTS ARE TO BE INSTALLED. BLOCK OUT TO MATCH ADJACENT CONSTRUCTION AFTER SIGN POST IS INSTALLED. THIS WORK SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

PAVEMENT MARKING LEGEND

1	THPL PVT MK LINE 10'x30' - 6" SKIP-DASH (YELLOW)
2	THPL PVT MK LINE 4" SOLID (YELLOW)
3	THPL PVT MK LINE 12" DIAGONAL (YELLOW)
4	THPL PVT MK LINE 4" DOUBLE (YELLOW)
5	PREF PL PM TYPE D LETTERS & SYMBOLS (WHITE)
6	THPL PVT MK LINE 4" SOLID WHITE
7	PREF PL PM TYPE D LINE 6" (WHITE)
8	THPL PVT MK LINE 8" SOLID (WHITE)
9	THPL PVT MK LINE 12" DIAGONAL (WHITE)
10	PREF PL PM TYPE D LINE 10'x30' - 6" SKIP DASH (WHITE)
11	THPL PVT MK LINE 2'x6' - 8" SKIP DASH (WHITE)
12	PREF PL PM TYPE D LINE 24" STOP BAR (WHITE)

MODEL: PMT Sheet03
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D3669537-sht-pmt01.dgn

Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS
Illinois Professional Design Firm 184.007773
Professional Engineering Group 20-5000545
LICENSE NO.

USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 20' | SHEET 3 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	249
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		

0 20 40 60
SCALE IN FEET

N

LOCKE DR
MOUNTED ON EX MAST ARM
SEE SIGNAL PLANS
FOR REPLACEMENT SIGN

LOCKE DRIVE

ARMOUR RD
MOUNTED ON EX MAST ARM
SEE SIGNAL PLANS
FOR REPLACEMENT SIGN
MOUNTED ON EX LIGHT POLE
RELOCATE TO PR SIGNAL POST

SPEED LIMIT 35
R2-1
30x36

SPEED LIMIT 35

TRUCK ROUTE
R14-1
24x18
M6-1
21x15

TRUCK ROUTE

+16.1
1.3' RT

+83.9

+83.8

311

+99.3
0.9' RT

10' SPACING
(TYP)

+67.0
38.6' LT

+53.5
0.0' RT

BUS STOP

STA 174+40, 33.5' LT
REMOVE & REPLACE

STA 174+75, 33.3' LT
REMOVE & REPLACE

MATCH LINE STA 170+50 SEE SHEET 3 OF 8

12.0'

2.5'R

ARMOUR ROAD

+10.0

171

172

173

174

175+00

176

+58.2

+79.5

+97.5

+25.4

+91.5

+11.5

+86.8

13.2'

+86.9

+06.9

11.0'

+86.4

+43.9
7.0' LT

+43.9
25.5' RT

+15.9

+13.7

319

MALL ENTRANCE

STA 170+95, 49.6' RT
REMOVE & REPLACE

STA 171+89, 4.1' LT

STA 175+40, 37.6' RT
REMOVE & REPLACE

STA 176+45, 36.8' RT
REMOVE & REPLACE

MATCH LINE STA 176+50 SEE SHEET 5 OF 8

R4-7
24x30

ARMOUR RD
MOUNTED ON EX MAST ARM
SEE SIGNAL PLANS
FOR REPLACEMENT SIGN
MOUNTED ON EX SIGNAL POST
RELOCATE TO PR SIGNAL POST

LOCKE DR
MOUNTED ON EX MAST ARM
SEE SIGNAL PLANS
FOR REPLACEMENT SIGN

R14-1
24x18
M6-4
21x15

RIGHT TURN LANE

R3-I100a
24x24

PAVEMENT MARKING & SIGNING NOTES

1. ALL PAVEMENT MARKINGS SHALL BE OF THE TYPE AND COLOR AS SPECIFIED IN THE PLANS AND SHALL BE PLACED PER DISTRICT 3 STANDARD 780-1 THRU 780-13 AND IDOT STANDARD 780001.
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5. CONTRACTOR SHALL PROVIDE A TWELVE-INCH x TWELVE-INCH BLOCK OUT IN SIDEWALK/MEDIAN SURFACES WHERE SIGN POSTS ARE TO BE INSTALLED. BLOCK OUT TO MATCH ADJACENT CONSTRUCTION AFTER SIGN POST IS INSTALLED. THIS WORK SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

PAVEMENT MARKING LEGEND

1	THPL PVT MK LINE 10'x30' - 6" SKIP-DASH (YELLOW)
2	THPL PVT MK LINE 4" SOLID (YELLOW)
3	THPL PVT MK LINE 12" DIAGONAL (YELLOW)
4	THPL PVT MK LINE 4" DOUBLE YELLOW
5	PREF PL PM TYPE D LETTERS & SYMBOLS
6	THPL PVT MK LINE 4" SOLID WHITE
7	PREF PL PM TYPE D LINE 6" WHITE
8	THPL PVT MK LINE 8" SOLID WHITE
9	THPL PVT MK LINE 12" DIAGONAL (WHITE)
10	PREF PL PM TYPE D LINE 10'x30' - 6" SKIP DASH (WHITE)
11	THPL PVT MK LINE 2'x6' - 8" SKIP DASH (WHITE)
12	PREF PL PM TYPE D LINE 24" STOP BAR (WHITE)

MODEL: PMT_Sheet04
FILE NAME: P:\20-1148.11 Armour Road\Received from\CADD\Highway\CADD Sheets\CADD Sheets\D369857-sht-pmt01.dgn

Kaskaskia Engineering Group, LLC
700 E. Main St., Suite 100, Belleville, Illinois 62220
618.233.5077 phone
618.233.5033 fax
www.kaskaskiaeng.com
PROFESSIONAL SEAL/SIGNATURE/DATE
Illinois Professional Design Firm 184.005775
Professional Engineering Group 20-5800540
LICENSE NO.

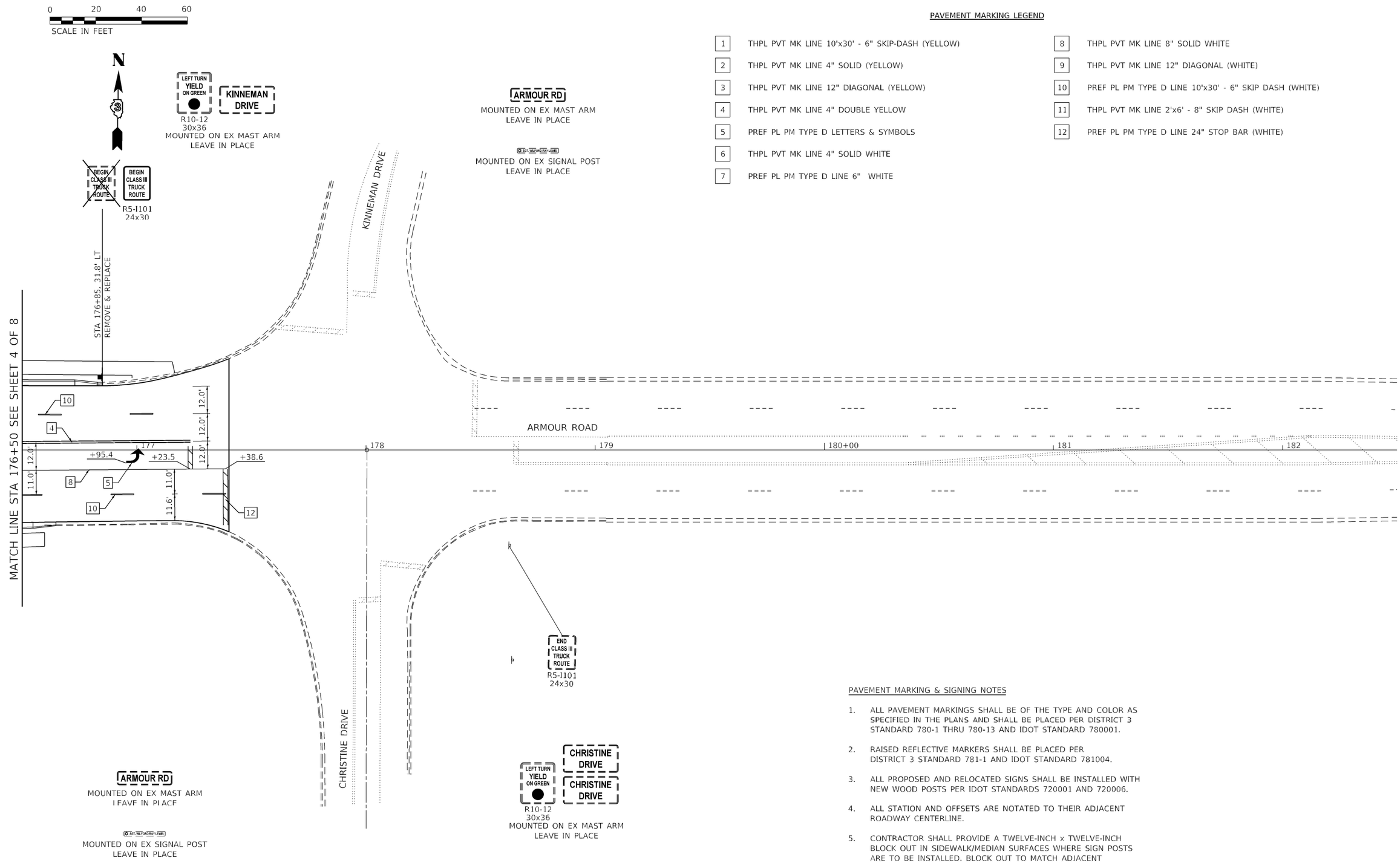
USER NAME = rjo		DESIGNED - LDC		REVISED -	
		DRAWN - RJO		REVISED -	
PLOT SCALE = 2.0000 ' / in.		CHECKED - LDC		REVISED -	
PLOT DATE = 1/27/2022		DATE - 10/2020		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 20' | SHEET 4 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	250
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKING LEGEND

1	THPL PVT MK LINE 10'x30' - 6" SKIP-DASH (YELLOW)
2	THPL PVT MK LINE 4" SOLID (YELLOW)
3	THPL PVT MK LINE 12" DIAGONAL (YELLOW)
4	THPL PVT MK LINE 4" DOUBLE YELLOW
5	PREF PL PM TYPE D LETTERS & SYMBOLS
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PAVEMENT MARKING & SIGNING NOTES

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3. ALL PROPOSED AND RELOCATED SIGNS SHALL BE INSTALLED WITH NEW WOOD POSTS PER IDOT STANDARDS 720001 AND 720006.
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5. CONTRACTOR SHALL PROVIDE A TWELVE-INCH x TWELVE-INCH BLOCK OUT IN SIDEWALK/MEDIAN SURFACES WHERE SIGN POSTS ARE TO BE INSTALLED. BLOCK OUT TO MATCH ADJACENT CONSTRUCTION AFTER SIGN POST IS INSTALLED. THIS WORK SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS
Illinois Professional Design Firm
Professional Engineering Group

USER NAME = rjo	DESIGNED - LDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

PAVEMENT MARKING AND SIGNING PLAN
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 20' | SHEET 5 OF 8 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	251
		CONTRACT NO. 66957		
		ILLINOIS FED. AID PROJECT		

0 20 40 60
SCALE IN FEET

N

ILLINOIS 50
MOUNTED ON MAST ARM

PAVEMENT MARKING LEGEND

1	THPL PVT MK LINE 10'x30' - 6" SKIP-DASH (YELLOW)	8	THPL PVT MK LINE 8" SOLID WHITE
2	THPL PVT MK LINE 4" SOLID (YELLOW)	9	THPL PVT MK LINE 12" DIAGONAL (WHITE)
3	THPL PVT MK LINE 12" DIAGONAL (YELLOW)	10	PREF PL PM TYPE D LINE 10'x30' - 6" SKIP DASH (WHITE)
4	THPL PVT MK LINE 4" DOUBLE YELLOW	11	THPL PVT MK LINE 2'x6' - 8" SKIP DASH (WHITE)
5	PREF PL PM TYPE D LETTERS & SYMBOLS	12	PREF PL PM TYPE D LINE 24" STOP BAR (WHITE)
6	THPL PVT MK LINE 4" SOLID WHITE		
7	PREF PL PM TYPE D LINE 6" WHITE		

PAVEMENT MARKING & SIGNING NOTES

1. ALL PAVEMENT MARKINGS SHALL BE OF THE TYPE AND COLOR AS SPECIFIED IN THE PLANS AND SHALL BE PLACED PER DISTRICT 3 STANDARD 780-1 THRU 780-13 AND IDOT STANDARD 780001.
2. RAISED REFLECTIVE MARKERS SHALL BE PLACED PER DISTRICT 3 STANDARD 781-1 AND IDOT STANDARD 781004.
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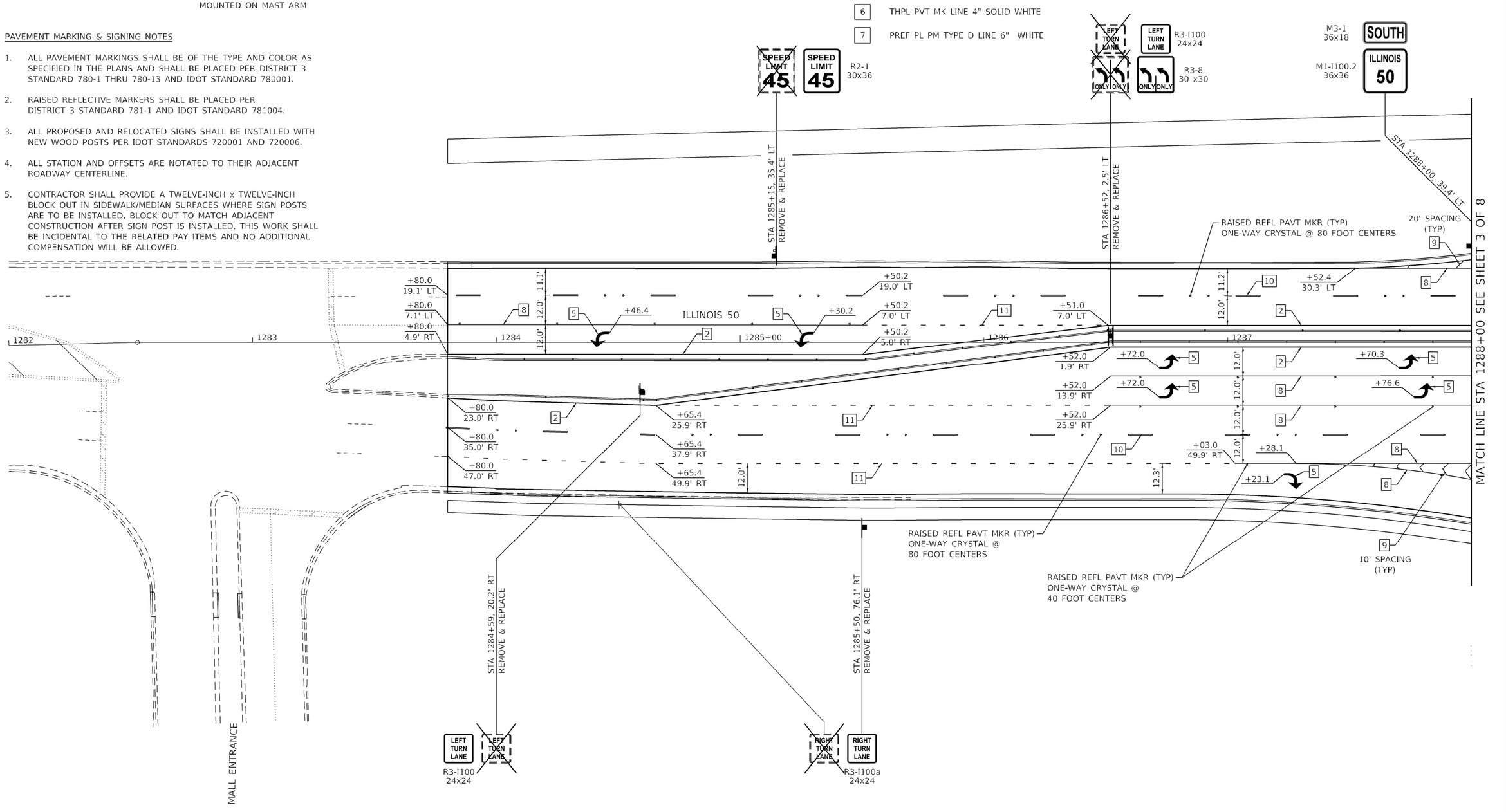

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Kaskaskia Engineering Group, LLC — 200 E. Main St., Suite 100, Belleville, Illinois 62220, 618.233.5077 phone, 618.233.5077 fax, www.kaskaskiaeng.com; PROFESSIONAL DESIGNATIONS: Illinois Professional Design Firm 184.005773, Professional Engineering Group 20-5000585; LICENSE NO.	USER NAME = rjo	DESIGNED - LDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLAN ARMOUR ROAD AND ILLNOIS 50
		DRAWN - RJO	REVISED -		
	PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -		SCALE: 1" = 20' SHEET 6 OF 8 SHEETS STA. TO STA.
	PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	252
		CONTRACT NO. 66957		
	ILLINOIS FED. AID PROJECT			

0 20 40 60
SCALE IN FEET

N

ARTHUR BURCH DR
1216

LOGO 24x18 | Coyote Canyon | Super 8 | LOGO 24x18
LOGO 24x18 | SUBWAY | IHOP | LOGO 24x18
M6-1 21x15 | M6-1 21x15

R3-8
30 x30
ONLY ONLY

STA 1293+50, 15.1' RT

STA 1294+30, 52.3' LT
RELOCATE

12'x8'
(144x96)
Bourbonnais
Olivet Nazarene University
Kankakee River State Park

STA 1296+00, 54.6' LT
REMOVE AND RELOCATE
EXISTING SIGN PANEL
ON NEW POSTS

STA 1296+01, 55.0' RT
REMOVE EXISTING POSTS
AND FOUNDATIONS

PAVEMENT MARKING & SIGNING NOTES

1. ALL PAVEMENT MARKINGS SHALL BE OF THE TYPE AND COLOR AS SPECIFIED IN THE PLANS AND SHALL BE PLACED PER DISTRICT 3 STANDARD 780-1 THRU 780-13 AND IDOT STANDARD 780001.
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MATCH LINE STA 1291+50 SEE SHEET 3 OF 8

10' SPACING (TYP)

RAISED REFL PAVT MKR (TYP)
ONE-WAY CRYSTAL @
40 FOOT CENTERS

+30.4
+02.4
+89.2
31.0' LT
+50.5
32.8' LT
+72.5
+69.0
+89.5
7.0' LT
+77.5
+69.0
+89.0
5.0' RT
+92.8
59.0' RT

1292
1293
1294
1295+00
1296
1297

ILLINOIS 50

+41.7
34.0' LT
+41.8
22.0' LT
+41.9
10.0' LT

RAISED REFL PAVT MKR (TYP)
ONE-WAY CRYSTAL @ 80 FOOT CENTERS

+44.6
36.9' LT
+44.4
24.9' LT
+44.7
12.9' LT
+44.7
8.9' RT
+44.9
20.9' RT
+44.9
32.9' RT

MATCH LINE STA 1297+50 SEE SHEET 8 OF 8

STA 1292+45, 66.2' RT
REMOVE & REPLACE

RAISED REFL PAVT MKR (TYP)
ONE-WAY CRYSTAL @ 80 FOOT CENTERS

20' SPACING (TYP)

SPEED LIMIT 45
SPEED LIMIT 45
R2-1
30x36

STA 1294+95, 56.0' RT
REMOVE & REPLACE

JCT INTERSTATE 57
JCT INTERSTATE 57
M2-1
30x15
M1-1.2
36x36

STA 1297+50, 73.4' RT
REMOVE EXISTING POSTS
AND FOUNDATIONS

STA 1297+50, 73.4' RT
RELOCATE EX SIGN PANEL

INTERSTATE 57 SOUTH
Champaign
RIGHT LANE
10'x9'
(120x108)

PAVEMENT MARKING LEGEND

1	THPL PVT MK LINE 10'x30' - 6" SKIP-DASH (YELLOW)	8	THPL PVT MK LINE 8" SOLID WHITE
2	THPL PVT MK LINE 4" SOLID (YELLOW)	9	THPL PVT MK LINE 12" DIAGONAL (WHITE)
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7	PREF PL PM TYPE D LINE 6" WHITE		

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PROFESSIONAL DESIGN FIRM
Illinois Professional Design Firm
Professional Engineering Group
LICENSE NO.
184.007731
20-5800585

USER NAME = rjo	DESIGNED - LDC	REVISED -	
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PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 20' | SHEET 7 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	253
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	

0 20 40 60

SCALE IN FEET

N

PAVEMENT MARKING & SIGNING NOTES

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6	THPL PVT MK LINE 4" SOLID WHITE		
7	PREF PL PM TYPE D LINE 6" WHITE		

R2-1
30x36
SPEED LIMIT 45
STA 1299+02.7, LT
LEAVE IN PLACE

W4-2
36x36
STA 1300+69.8 LT
LEAVE IN PLACE

M3-1
M1-1100.2
SOUTH
ILLINOIS
50
STA 1303+05.8, LT
LEAVE IN PLACE

EXISTING SOLID WHITE LINE
EXISTING SOLID YELLOW LINE
EXISTING WHITE LINE 10'x30' SKIP DASH

MATCH LINE STA 1297+50 SEE SHEET 7 OF 8

ILLINOIS 50

1298 1299 1300+00 1301 1302 1303

EXISTING SOLID YELLOW LINE
EXISTING SOLID WHITE LINE
EXISTING WHITE LINE 10'x30' SKIP DASH

STA 1298+93, 78.2' RT
REMOVE AND REPLACE
EXISTING SIGN PANEL

EXISTING OVERHEAD SIGN TRUSS
LEAVE IN PLACE
STA 1300+98, RT
(I-57 NORTH CHICAGO AND
I-57 SOUTH CHAMPAIGN)

EDGE OF SIGN TO BE LOCATED
A MINIMUM OF 2' FROM OUTSIDE
EDGE OF EXISTING MULTI-USE PATH.
FINAL LOCATION TO BE FIELD
LOCATED & DETERMINED BY THE
ENGINEER.

STA 1303+00, RT
RELOCATED
EXISTING SIGN
PANEL

RELOCATED GROUND
MOUNTED SIGN FROM
STA 1297+50, 73.4' RT
(I-57 SOUTH CHAMPAIGN
RIGHT LANE)
USE EXISTING POSTS

INTERSTATE 57 SOUTH
Champaign
RIGHT LANE
10'x9'
(120x108)

INTERSTATE 57 NORTH
Chicago
LEFT LANE
10'x9'
(120x108)

RELOCATE GROUND
MOUNTED SIGN TO
STA 1303+00, RT
(I-57 NORTH CHICAGO
LEFT LANE)

RELOCATED GROUND
MOUNTED SIGN FROM
STA 1298+93, 78.2' RT
(I-57 NORTH CHICAGO
LEFT LANE)
USE NEW POSTS

INTERSTATE 57 NORTH
Chicago
LEFT LANE

MODEL: PMT_Sheet08
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Kaskaskia Engineering Group, LLC
200 E. Main St., Suite 106, Belleville, Illinois 62220, 618.233.5077 phone, 618.233.5077 fax, www.kaskaskiaeng.com
PROFESSIONAL DESIGNATIONS: Illinois Professional Design Firm; Professional Engineering Group
LICENSE NO. (EXPIRY): 184.007172 (04/30/23); 20-5000165

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	DRAWN - RJO	REVISED -	
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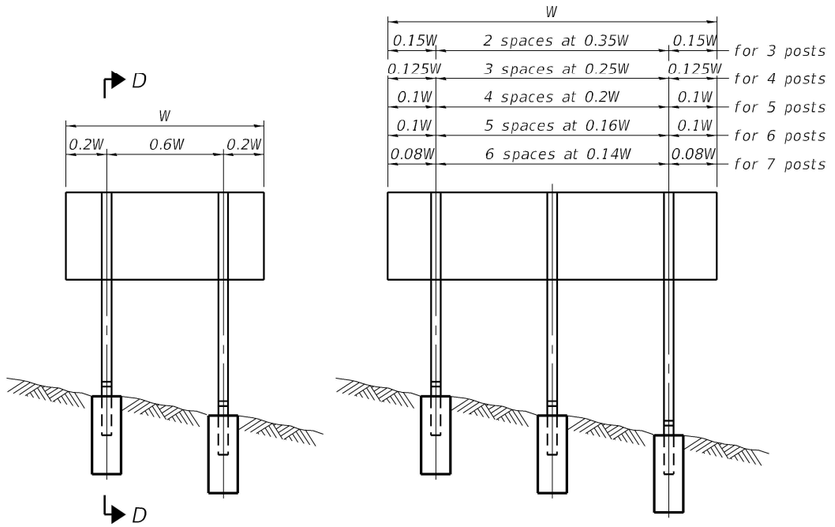
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

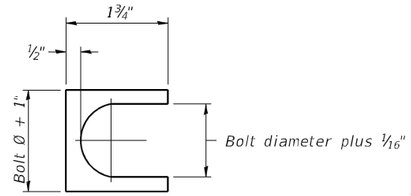
PAVEMENT MARKING AND SIGNING PLAN
ARMOUR ROAD AND ILLNOIS 50

SCALE: 1" = 20' | SHEET 8 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	254
		CONTRACT NO. 66957		
	ILLINOIS FED. AID PROJECT			

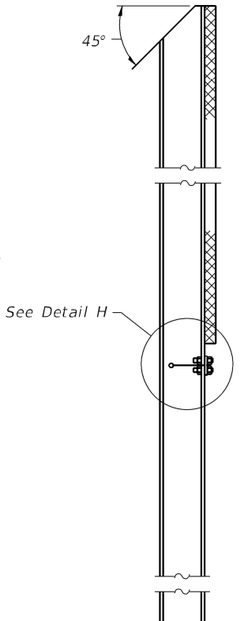


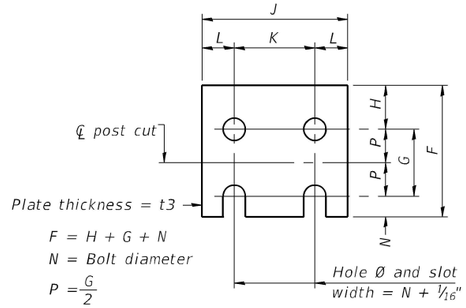
ELEVATION



SHIM DETAIL

Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

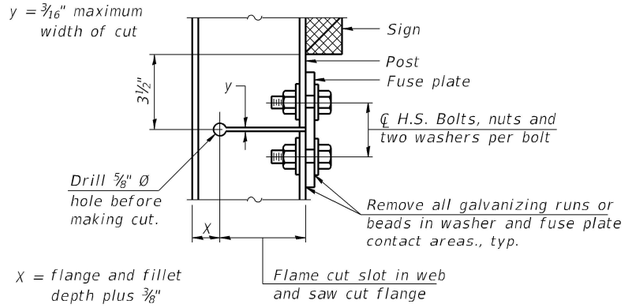




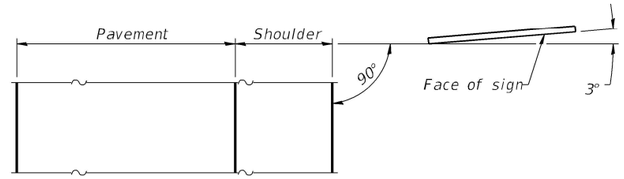
FUSE PLATE DETAIL

(Install with notches down.)

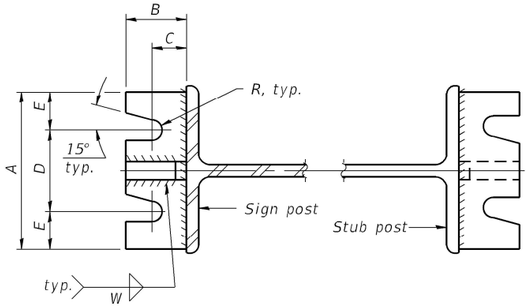
FUSE PLATE DATA		
N = Bolt Diameter	G	H
½"	2"	1⅛"
⅝"	2¼"	1¼"
¾"	2½"	1⅜"
⅞"	2¾"	1½"
1"	3"	1⅝"
1⅛"	3¼"	1¾"
1¼"	3½"	1⅞"



DETAIL H

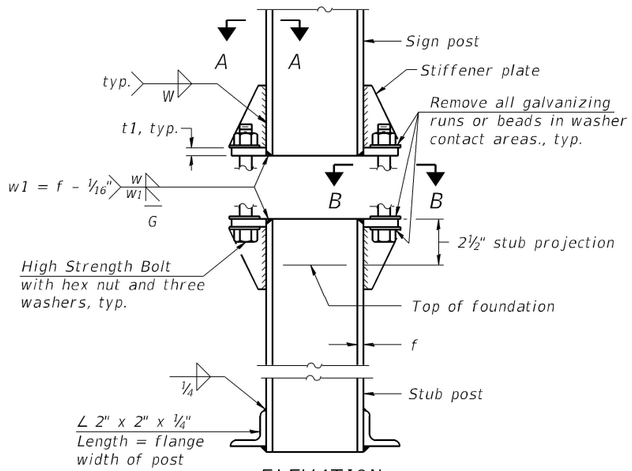


LOCATION SKETCH



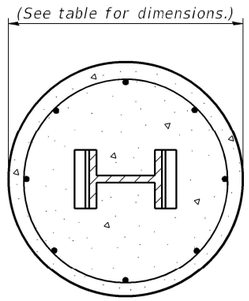
SECTION A-A

SECTION B-B



ELEVATION

SIGN POST & STUB POST



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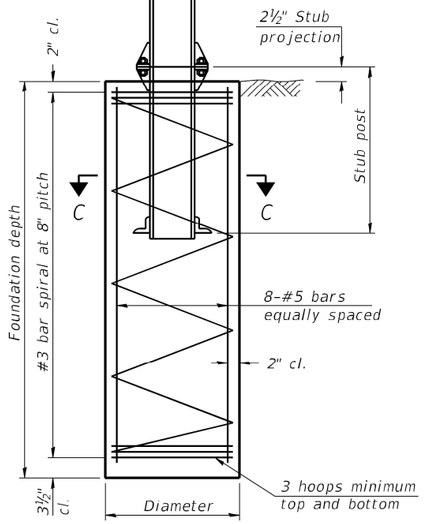
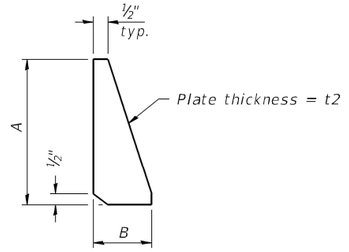


SECTION D-D



STIFFENER PLATE DETAIL

Diameter

GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:
Structural steel - 20,000 p.s.i.
Reinforcing steel - 20,000 p.s.i.
Concrete - 1,400 p.s.i.
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

BAW-A-1 2-17-2017

(Sheet 1 of 2)

MODEL: Default
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D3366957-SNT-SGN01.dgn

Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS
Illinois Professional Design Firm
Professional Engineering Group
LICENSE NO.
184.007572
20-5000165

USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 0:2.0000 ':" / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE STEEL SIGN POST DETAILS
ARMOUR ROAD AND ILLINOIS 50

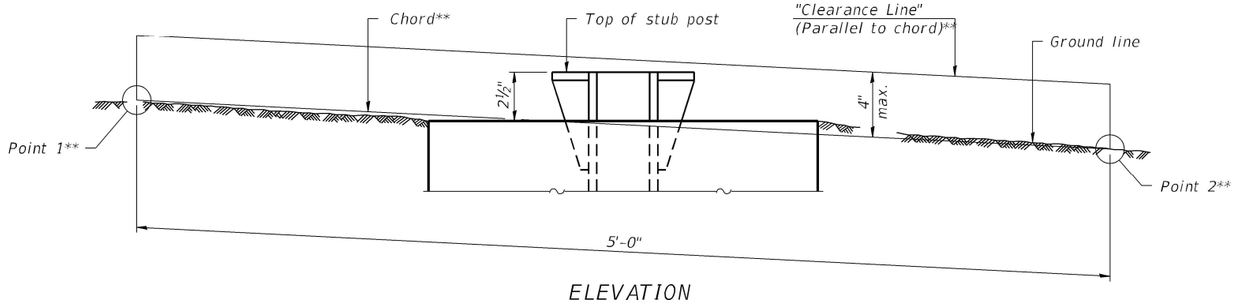
SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	255
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	

POST	CONCRETE FOUNDATION TABLE							POST TO STUB POST CONNECTION DATA									FUSE PLATE DATA			
	Foundation			Reinforcement				Stub Post												
	Diameter*	Minimum Depth	Concrete (1) cu. yds.)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length	lbs. (2)	Length	Bolt Size	A	B	C	D	E	t1	t2	R	W	J	K	L	t3
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-3"	⅝" x 3¼"	6"	2¼"	1¼"	3½"	1¼"	¾"	½"	11/32"	¼"	4"	2¼"	⅞"	¼"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-6"	⅝" x 3¼"	6"	2¼"	1¼"	3½"	1¼"	¾"	½"	11/32"	¼"	6"	3½"	1¼"	⅜"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-6"	¾" x 3¾"	6"	2½"	1⅜"	3¼"	1⅜"	1"	½"	13/32"	5/16"	5¼"	2¾"	1¼"	⅜"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2½"	105'-0"	92	3'-0"	¾" x 3¾"	6"	2½"	1⅜"	3¼"	1⅜"	1"	½"	13/32"	5/16"	5¾"	2¾"	1½"	½"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2½"	112'-0"	98	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	5¾"	2¾"	1½"	⅝"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2½"	119'-0"	107	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	6½"	3½"	1½"	⅝"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8½"	145'-0"	113	3'-0"	1" x 4½"	7½"	3"	1¾"	4"	1¾"	1¼"	¾"	17/32"	⅜"	6¾"	3½"	1⅝"	½"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8½"	153'-0"	122	3'-6"	1" x 4½"	7½"	3"	1¾"	4"	1¾"	1¼"	¾"	17/32"	⅜"	6¾"	3½"	1⅝"	½"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8½"	162'-0"	130	3'-6"	1" x 4½"	7½"	3"	1¾"	4"	1¾"	1¼"	¾"	17/32"	⅜"	7"	3½"	1¾"	½"

*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE — Sign Height																			
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"
W6x9	½" x 1½"	½" x 1½"	½" x 1½"	½" x 1½"	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——
W6x15	½" x 1¾"	½" x 1¾"	½" x 1¾"	⅝" x 2"	⅝" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	——	——	——	——	——	——	——	——	——	——	——	——
W8x18	½" x 1¾"	½" x 1¾"	½" x 1¾"	½" x 1¾"	⅝" x 2"	⅝" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	——	——	——	——	——	——	——	——	——	——	——
W10x22	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2"	⅝" x 2"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	——	——	——	——	——	——	——	——
W10x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	——	——	——	——	——	——	——
W12x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	——	——	——	——	——	——
W14x30	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2"	⅝" x 2"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	——	——	——	——
W14x38	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	⅞" x 2½"	⅞" x 2½"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"
W16x45	——	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	⅞" x 2½"	⅞" x 2½"	⅞" x 2½"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"



ELEVATION
GROUND LINE & STUB POST

** For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

(1) Quantity includes all concrete necessary for one foundation.

(2) Includes reinforcement bars and spiral hooping for one foundation.

FOUNDATIONS:
ALL NECESSARY EXCAVATING OR DRILLING (EXCEPT IN ROCK); BACKFILLING WITH EXCAVATED MATERIAL; DISPOSAL OF UNSUITABLE OR SURPLUS MATERIAL; FORMWORK; AND FURNISHING AND PLACING THE CLASS SI CONCRETE REINFORCEMENT BARS, SHALL BE INCLUDED IN THE PAY ITEM "CONCRETE FOUNDATIONS."

SIGN SCHEDULE

LOCATION	OFFSET TO SIGN EDGE	SIDE	SIGN PANEL DESCRIPTION	EXISTING SIGN PANEL DIMENSIONS WIDTH	EXISTING SIGN PANEL DIMENSIONS HEIGHT	REMOVE SIGN PANEL TYPE 3	REMOVE GROUND MOUNTED SIGN SUPPORT	REMOVE CONCRETE FOUNDATION GROUND MOUNT	STRUCTURAL STEEL SIGN SUPPORT – BREAKAWAY NUMBER OF POSTS	POST SIZE	POST STUB	POST LENGTH 1	POST LENGTH 2	TOTAL POST WEIGHT	CONCRETE FOUNDATIONS	REINFORCEMENT BARS	RELOCATE SIGN PANEL TYPE 3
	FOOT	LT/RT		FOOT	FOOT	SQ FT	EACH	EACH	EACH		FOOT	FOOT	FOOT	POUND	CU YD	POUND	SQ FT
1296+00 ILLINOIS 50	54.6	LT	BOURBONNAIS OLIVET NAZARENE UNIVERSITY KANKAKEE RIVER STATE PARK	12	8	96	2	2	2	W6x15	5	16.5	15.6	556.5	1.4	156	96
1298+93 ILLINOIS 50 (ORIGINAL LOCATION 1297+48)	73.3	RT	I 57 SOUTH CHAMPAIGN RIGHT LANE	10	9	90	2 ORIG LOC 1297+48	2 ORIG LOC 1297+48	RELOC TO EX POSTS 1298+93						RELOC TO EX FOUNDATIONS 1298+93		90
1303+00 ILLINOIS 50 (ORIGINAL LOCATION 1298+93)	2 FT OFF EXISTING MULTI-USE PATH	RT	I 57 NORTH CHICAGO LEFT LANE	10	9	90			2	W6x15	5	16.0	16.4	561	1.4	156	90
			TOTALS			276	4	4						1,117.5	2.8	312	276

NOTE: LENGTH OF POSTS IS AN ESTIMATE. FINAL POST LENGTHS SHALL BE DETERMINED AFTER COMPLETION OF EARTHWORK.

BAW-A-2 2-17-2017

(Sheet 2 of 2)

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Kaskaskia Engineering Group, LLC
200 E. Main St., Suite 300, Ballerville, Illinois 62220, 618.435.5977 phone, 618.233.5977 fax, www.kaskaskiaeng.com
PROFESSIONAL REGISTRATIONS: Illinois Professional Design Firm 184.005773, Professional Engineering Group 20-5880185

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	DRAWN - RJO	REVISED -	
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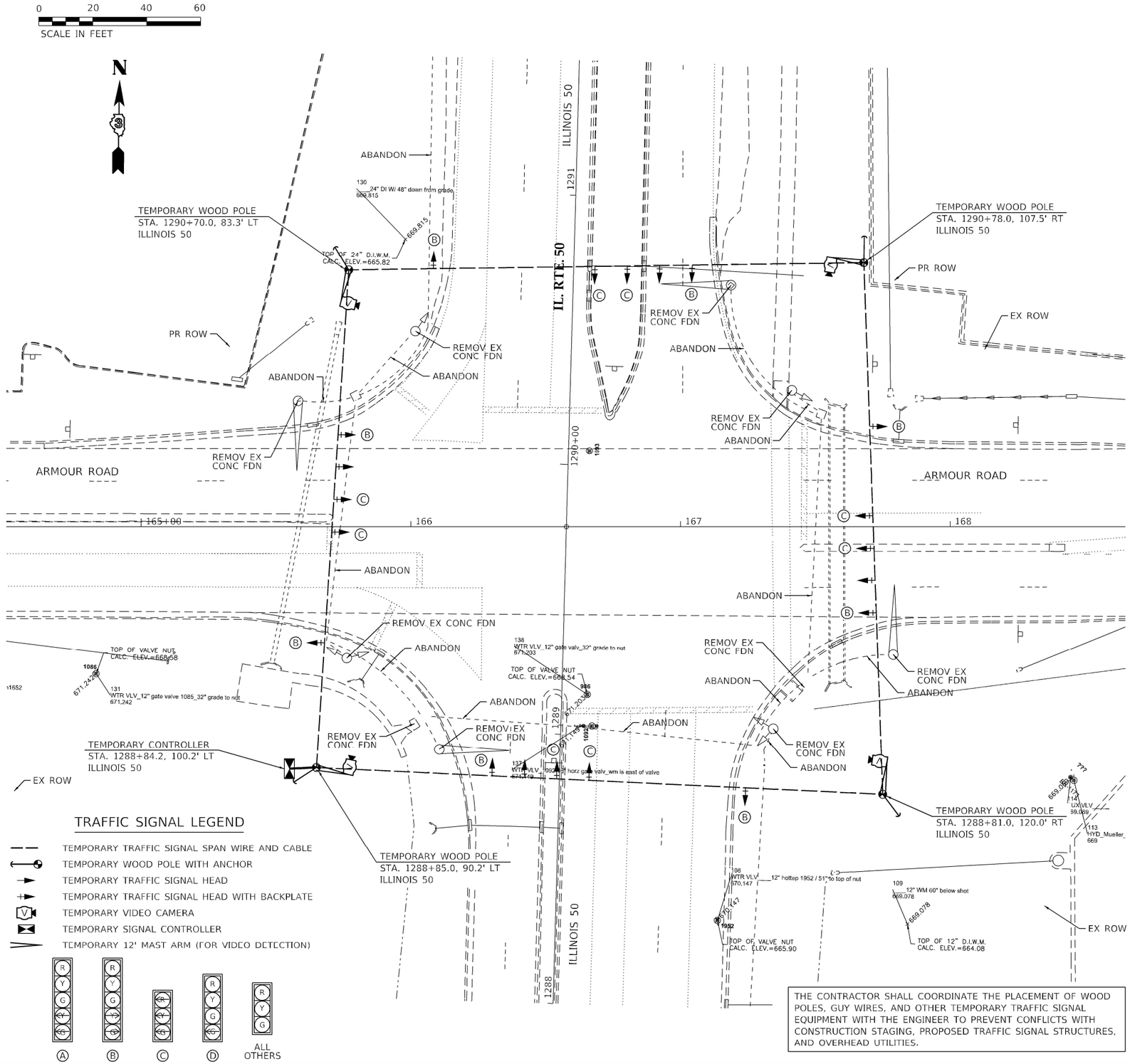
PLOT DATE = 1/27/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BREAK–AWAY WIDE FLANGE STEEL SIGN POST TABLES
ARMOUR ROAD AND ILLINOIS 50

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	256
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		



THE CONTRACTOR SHALL COORDINATE THE PLACEMENT OF WOOD POLES, GUY WIRES, AND OTHER TEMPORARY TRAFFIC SIGNAL EQUIPMENT WITH THE ENGINEER TO PREVENT CONFLICTS WITH CONSTRUCTION STAGING, PROPOSED TRAFFIC SIGNAL STRUCTURES, AND OVERHEAD UTILITIES.

NOTES FOR TEMPORARY TRAFFIC SIGNAL

T1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED IN THE PLANS.

T2. ALL TRAFFIC SIGNAL EQUIPMENT SCHEDULED FOR REMOVAL CAN BE USED FOR TEMPORARY TRAFFIC SIGNALS. ANY MAINTENANCE OF THIS EQUIPMENT WHEN USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE THE RESPONSIBLITY OF THE CONTRACTOR. ALL EQUIPMENT SHALL BE DELIVERED IN GOOD WORKING CONDITION UPON REMOVAL OF TEMPORARY TRAFFIC SIGNAL INSTALLATION.

T3. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 3 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

T4. THE PROPOSED VIDEO DETECTION SYSTEM SHALL BE USED FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. THE CONTRACTOR SHALL TRANSFER ALL VIDEO DETECTION COMPONENTS TO THE PROPOSED SIGNAL INSTALLATION AND SHALL BE RESPONSIBLE FOR ALL MAINTENANCE OF THE EQUIPMENT.

T5. ALL TRAFFIC SIGNALS AND PEDESTRIAN SECTIONS SHALL HAVE 12 INCH LENSES.

T6. TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE PLACED AS INDICATED ON THE PLANS OR DIRECTED BY THE ENGINEER.

T7. ALL EXISTING STREET NAME AND INTERSECTION REGULARTORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.

T8. THE SPAN WIRE MOUNTED TEMPORARY SIGNAL HEADS SHALL MAINTAIN AN UNIFORM 18 FOOT CLEARANCE OVER THE ROADWAY.

T9. ALL SIGNAL HEADS ON AN INDIVIDUAL SPAN WIRE SHALL BE MOUNTED SO THAT THE "RED" INDICATIONS ARE LEVEL WITH EACH OTHER.

T10. TEMPORARY WOOD POLES SHALL BE LOCATED A MINIMUM OF 6 FEET FROM THE FACE OF CURB OR A MINIMUM 18 FEET FROM THE EDGE OF PAVEMENT WHERE THERE IS NO CURB, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

T11. ALL TEMPORARY WOOD POLES SHALL BE INSTALLED SO THAT A MINIMUM OF 30 FOOT OF POLE IS ABOVE THE EXISTING PAVEMENT ELEVATION ADJACENT TO THE POLE. A SUFFICIENT LENGTH OF POLE SHALL BE BURIED AND BACK GUYED TO ALLOW INSTALLATION TO WITHSTAND A 70 M.P.H. SUSTAINED WIND LOADING.

T12. THE CONTRACTOR SHALL BE RESPONISIBLE FOR CHECKING THE WOOD POLE LOCATIONS BEFORE ORDERING TO DETERMINE IF LONGER POLES ARE REQUIRED.

T13. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 3, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.

T14. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRAIN SIGNAL SECTIONS SHALL BE LED AND 12 INCH DIAMETER, HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE FOR STAGING AND AS DIRECTED BY THE ENGINEER. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD. THIS WORK, INCLUDING ALL SIGNAL HEAD RELOCATIONS AS DIRECTED BY THE ENGINEER, SHALL BE INCLUDED IN THE TEMPORARY TRAFFIC SIGNAL INSTALLATION PAY ITEM.

T15. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR NOT BE STAGED ON THE DAY OF THE TURN ON.

T16. UNINTERUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL. TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.

T17. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.

T18. A FOUR CAMERA VEHICLE VIDEO DETECTION SYSTEM SHALL BE USED TO PROVIDE DETECTION FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. THE CONTRACTOR SHALL FURNISH A FOUR CAMERA VIDEO DETECTION SYSTEM (CAMERAS WITH BRACKETS AND PROCESSOR) FOR USE WITH THE TEMPORARY INSTALLATION. THE CONTRACTOR SHALL FURNISH ALL CABLE, HARDWARE, BRACKETS, AND ACCESSORIES REQUIRED FOR A COMPLETELY FUNCTIONAL SYSTEM.

T19. AERIAL TRAFFIC SIGNAL CABLE SHALL BE FURNISHED AND INSTALLED AS SHOWN ON THE PLAN SHEETS.

T20. THE CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO RELOCATE THE TEMPORARY TRAFFIC SIGNAL HEADS IN ACCORDANCE WITH THE PROPOSED CONSTRUCTION STAGING.

T21. THE TRAFFIC SIGNAL INSTALLATION SHALL CONFORM TO ALL APPLICABLE MUTCD STANDARDS.

T22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING THE VIDEO DETECTION SYSTEM TO ACCOMMODATE CONSTRUCTION STAGING (INCLUDING CAMERA AIMING AND PROGRAMMING).

T23. ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLY WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE PRICE FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION.

T24. TEMPORARY SIGNAL HEADS SHALL BE RELOCATED AS NECESSARY TO LINE UP WITH STAGE TRAFFIC LANES. DO NOT INSTALL HEADS THAT BLOCK OPPOSING TRAFFIC HEADS. WHEN POSSIBLE PLACE TEMPORARY SIGNALS IN FRONT OF EXISTING TRAFFIC SIGNALS. THIS WORK WILL BE INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGN INSTALLATION.

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Kaskaskia Engineering Group, LLC
700 E. Main St., Suite 160, Belleville, Illinois 62220, 618.233.5877 phone, 618.233.5971 fax, www.kaskaskiaeng.com
PROFESSIONAL ENGINEERING: Illinois Professional Design Firm: 184.007973, Professional Engineering Group: 20-5860566
LANDSCAPE ARCHITECTURE: Illinois Professional Design Firm: 184.007973, Professional Landscape Group: 20-5860566

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PLOT DATE = 2/3/2022	DATE - 10/2020	REVISED -	

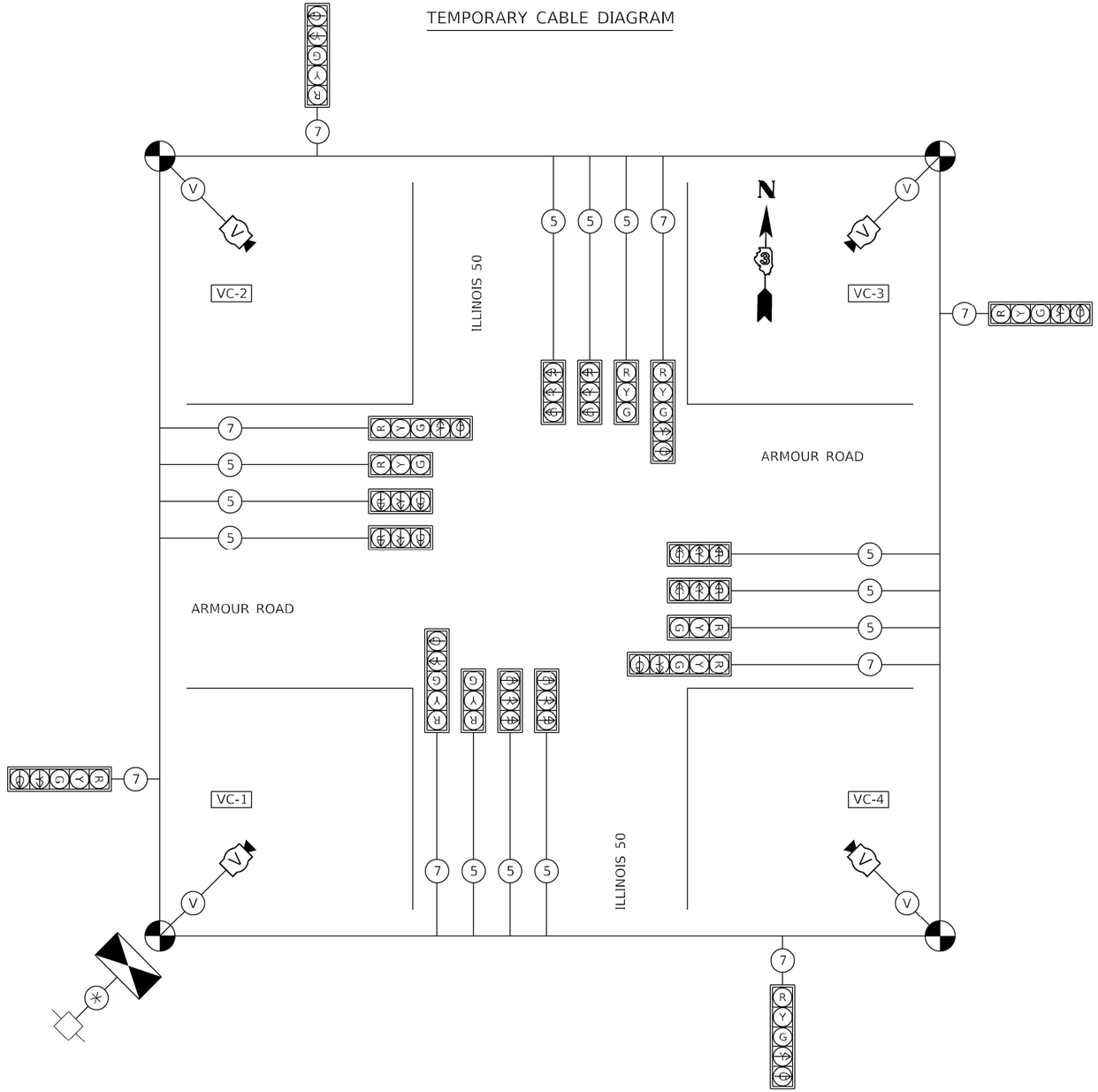
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
ARMOUR ROAD AND ILLINOIS 50

SCALE: 1" = 20' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

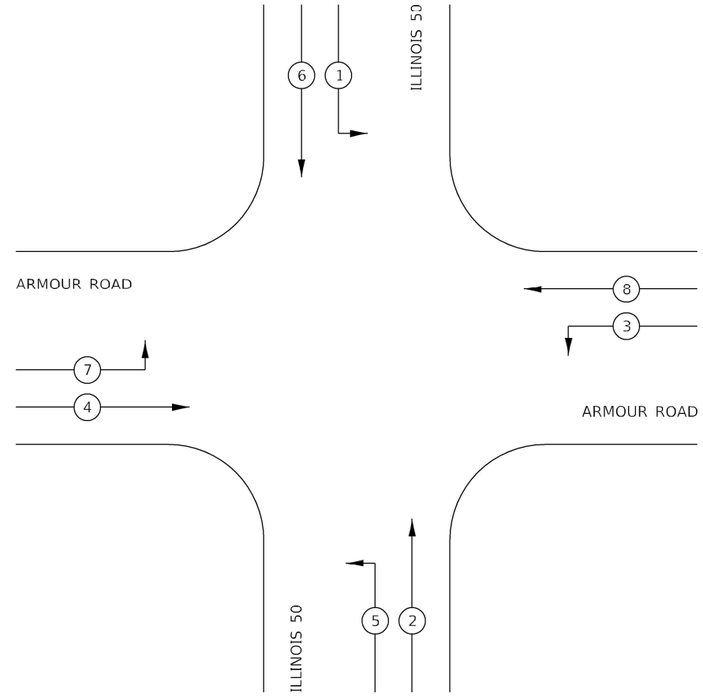
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	257
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		

TEMPORARY CABLE DIAGRAM



TEMPORARY PHASE DIAGRAM

NAME OF INTERSECTION ARMOUR ROAD & ILLINOIS ROUTE 50



VEHICULAR MOVEMENT

* NUMBER REFERS TO ASSOCIATED PHASE

TRAFFIC SIGNAL LEGEND

	TEMPORARY CONTROLLER (SIGNAL)	5	TEMPORARY 5/C NO. 14 SIGNAL CABLE		TEMPORARY SERVICE INSTALLATION
R Y G	TEMPORARY SIGNAL HEAD W/BACKPLATE	7	TEMPORARY 7/C NO. 14 SIGNAL CABLE	V	TEMPORARY VIDEO DTECTION CAMERA
R Y G	TEMPORARY SIGNAL HEAD	V	TEMPORARY VIDEO DETECTION CABLE		
		*	TEMPORARY CABLE (1/C NO. 6) X 3		

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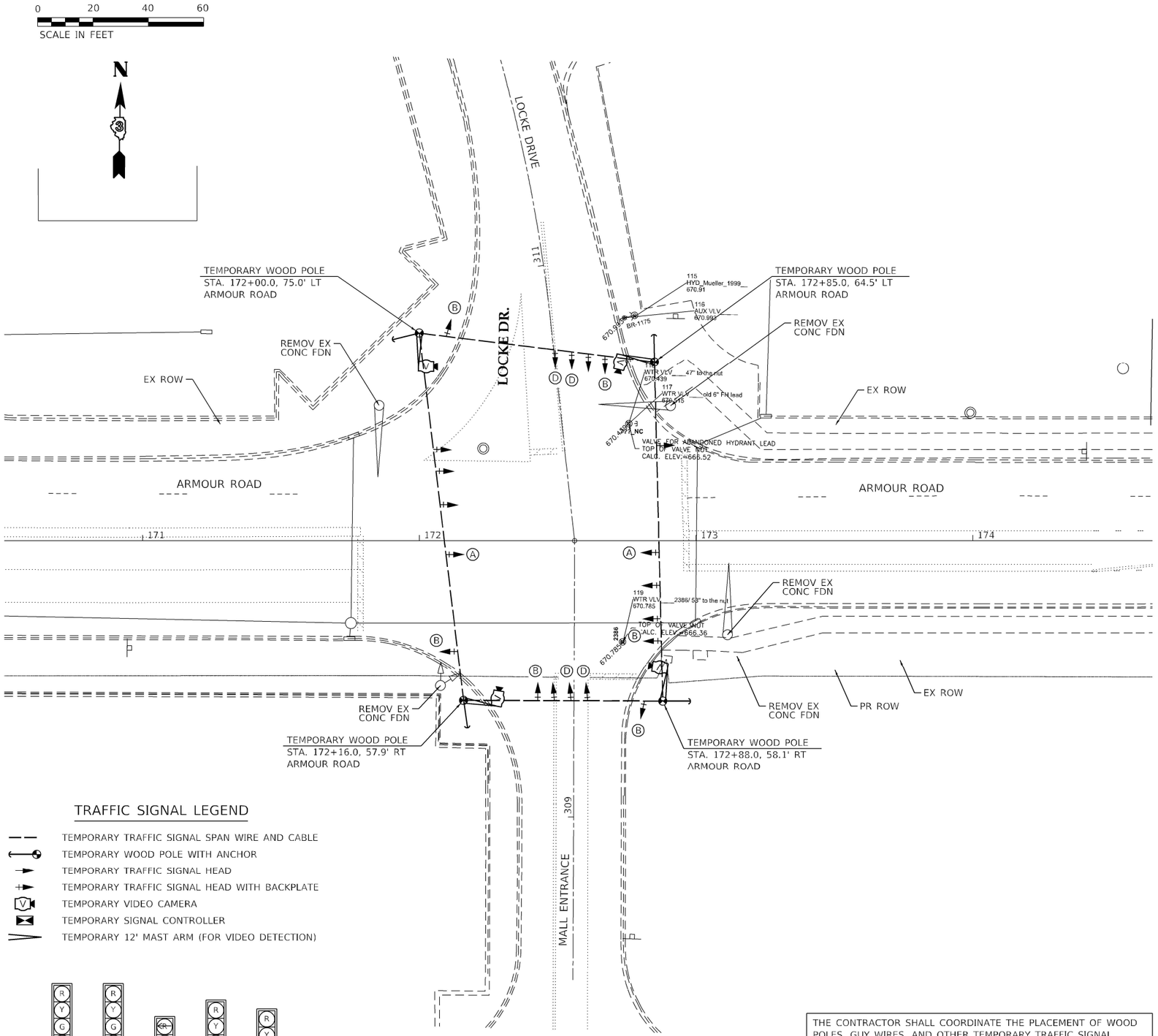
Kaskaskia Engineering Group, LLC
PROFESSIONAL ENGINEERING
Illinois Professional Design Firm
Professional Engineering Group

USER NAME = rjo	DESIGNED - LDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 2/3/2022	DATE - 10/2020	REVISED -	

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
ARMOUR ROAD AND ILLINOIS 50

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	258
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



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T18. A FOUR CAMERA VEHICLE VIDEO DETECTION SYSTEM SHALL BE USED TO PROVIDE DETECTION FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. THE CONTRACTOR SHALL FURNISH A FOUR CAMERA VIDEO DETECTION SYSTEM (CAMERAS WITH BRACKETS AND PROCESSOR) FOR USE WITH THE TEMPORARY INSTALLATION. THE CONTRACTOR SHALL FURNISH ALL CABLE, HARDWARE, BRACKETS, AND ACCESSORIES REQUIRED FOR A COMPLETELY FUNCTIONAL SYSTEM.

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T22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING THE VIDEO DETECTION SYSTEM TO ACCOMMODATE CONSTRUCTION STAGING (INCLUDING CAMERA AIMING AND PROGRAMMING).

T23. ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLY WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE PRICE FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION.

T24. TEMPORARY SIGNAL HEADS SHALL BE RELOCATED AS NECESSARY TO LINE UP WITH STAGE TRAFFIC LANES. DO NOT INSTALL HEADS THAT BLOCK OPPOSING TRAFFIC HEADS. WHEN POSSIBLE PLACE TEMPORARY SIGNALS IN FRONT OF EXISTING TRAFFIC SIGNALS. THIS WORK WILL BE INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGN INSTALLATION.

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Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS — LICENSE NO.
Illinois Professional Design Firm: 184.006773
Professional Engineering Group: 20-5888545

USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 2/3/2022	DATE - 10/2020	REVISED -	

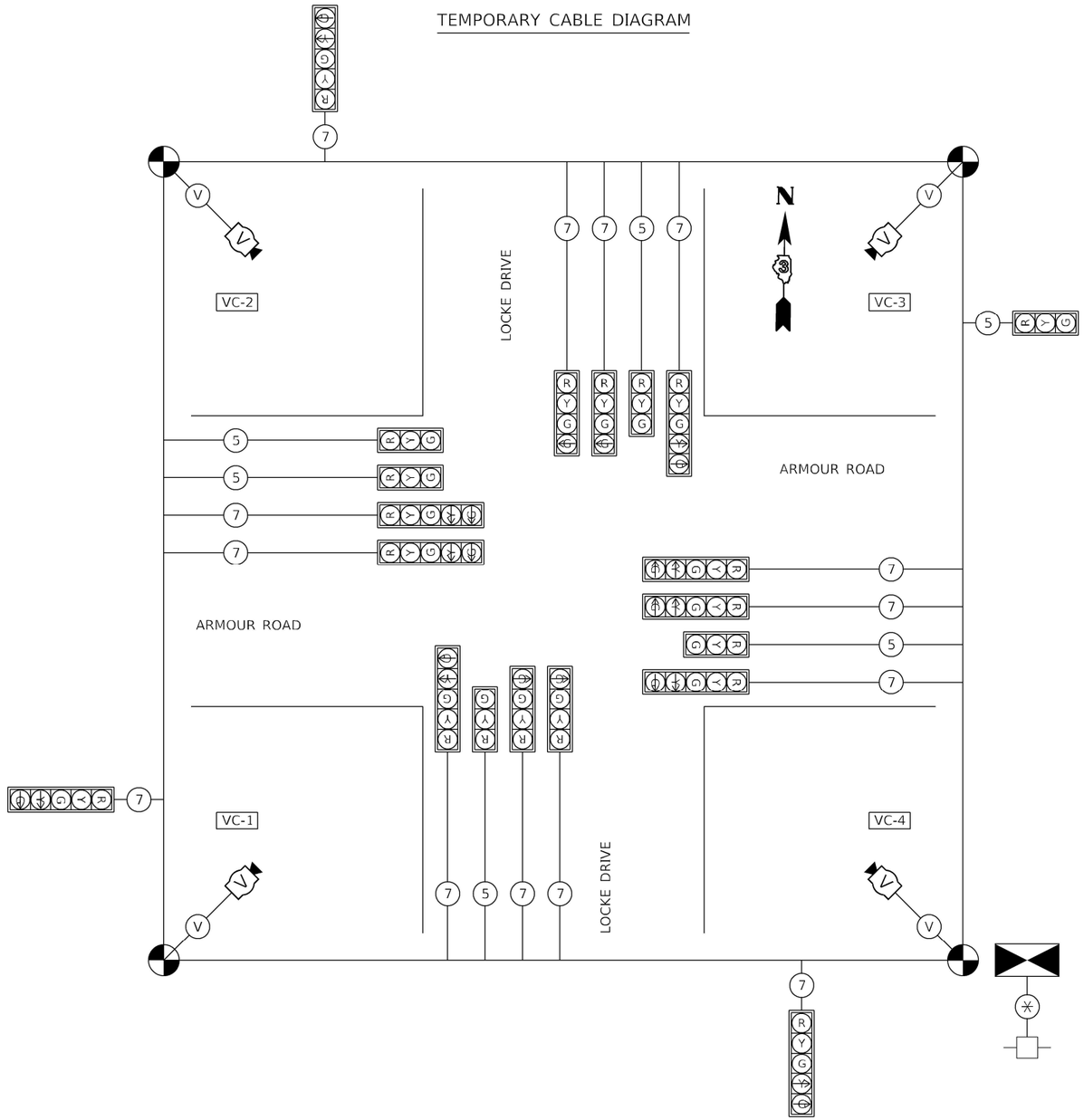
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
ARMOUR ROAD AND LOCKE DRIVE

SCALE: 1" = 20' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

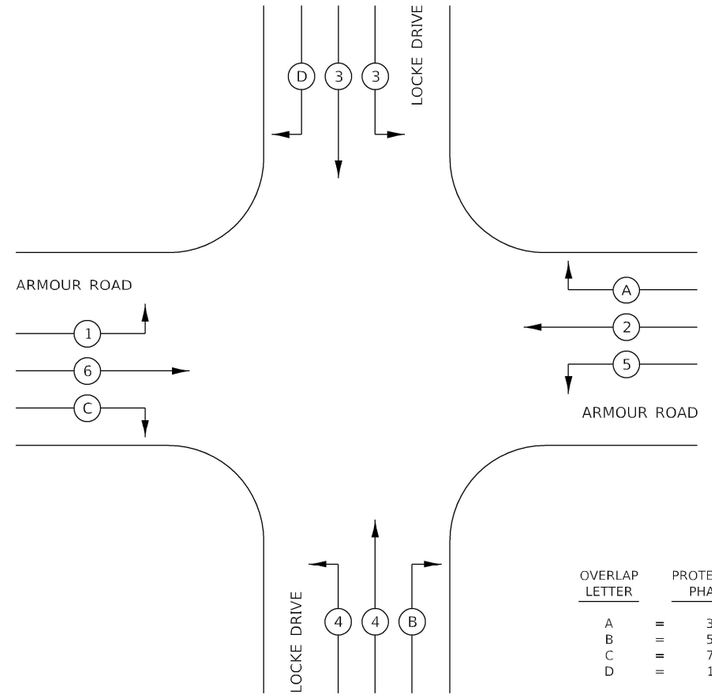
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	259
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		

TEMPORARY CABLE DIAGRAM



TEMPORARY PHASE DIAGRAM

NAME OF INTERSECTION ARMOUR ROAD & LOCKE DRIVE



OVERLAP LETTER		PROTECTED PHASE
A	=	3
B	=	5
C	=	7
D	=	1

VEHICULAR MOVEMENT

* NUMBER REFERS TO ASSOCIATED PHASE

TRAFFIC SIGNAL LEGEND

- TEMPORARY CONTROLLER (SIGNAL)
- TEMPORARY SIGNAL HEAD W/BACKPLATE
- TEMPORARY SIGNAL HEAD
- TEMPORARY 5/C NO. 14 SIGNAL CABLE
- TEMPORARY 7/C NO. 14 SIGNAL CABLE
- TEMPORARY VIDEO DETECTION CABLE
- TEMPORARY CABLE (1/C NO. 6) X 3
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY VIDEO DTECTION CAMERA

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Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS
Illinois Professional Design Firm
Professional Engineering Group

USER NAME = rjo	DESIGNED - LDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 2/3/2022	DATE - 10/2020	REVISED -	

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
ARMOUR ROAD AND LOCKE DRIVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	260

CONTRACT NO. 66957

ILLINOIS FED. AID PROJECT

TRAFFIC SIGNAL QUANTITIES

ITEM	UNIT	TOTAL QUANTITIES	0004 80% FEDERAL 20% STATE ARTHUR BURCH DRIVE AND ARMOUR ROAD	0004 90% FEDERAL 10% STATE IL ROUTE 50 AND ARMOUR ROAD	0004 80% FEDERAL 20% STATE LOCKE DRIVE AND ARMOUR ROAD	0021 100% COUNTY LIGHTING PRE-EMPTION
SIGN PANEL - TYPE 1	SQ FT	207	50	90	68	
SIGN PANEL - TYPE 2	SQ FT	48	23	25		
SERVICE INSTALLATION - GROUND MOUNTED	EACH	3	1	1	1	
UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	118		78	40	
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	2,387	388	1,673	326	
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	604	215	86	303	
UNDERGROUND CONDUIT, PVC, 3 1/2" DIA.	FOOT	365	103	262		
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	258	18	129	111	
UNDERGROUND CONDUIT, PVC, 5" DIA.	FOOT	133		133		
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	17	5	8	4	
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	3	1	1	1	
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4		2	2	
FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE IV, 8 PHASES	EACH	2				
MASTER CONTROLLER	EACH	1		1		
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	3	1	1	1	
TRANSCEIVER - FIBER OPTIC	EACH	6	1	4	1	
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	4,166		4,166		
ELECTRIC CABLE IN CONDUIT, TRACER, 14 1C	FOOT	4,166		4,166		
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	5,917	574	4,067	1,276	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	6,050	596	4,132	1,322	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	11,259	1,799	7,089	2,371	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	5,002	1,459	2,086	1,457	
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	62	16	20	26	
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2,365	505	1,174	686	
TRAFFIC SIGNAL POST, 15 FT.	EACH	6	1	4	1	
PEDESTRIAN PUSH-BUTTON POST, TYPE I	EACH	14	1	10	3	
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1			1	
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1			1	
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1	1			
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1	1			
STEEL MAST ARM ASSEMBLY AND POLE, 62 FT.	EACH	1		1		
STEEL MAST ARM ASSEMBLY AND POLE, 72 FT.	EACH	1		1		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1			1	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	2	2			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 64 FT.	EACH	1			1	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 72 FT.	EACH	1		1		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 75 FT.	EACH	1		1		
CONCRETE FOUNDATION, TYPE A	FOOT	27	6	15	6	
CONCRETE FOUNDATION, TYPE C	FOOT	9	3	3	3	
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	79	40		39	
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	105		84	21	
DRILL EXISTING HANDHOLE	EACH	13		7	6	
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	16	4	8	4	
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	30	6	16	8	
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	18	4	8	6	
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	6	4		2	
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	28	4	16	8	
DETECTOR LOOP, TYPE I	FOOT	914		450	464	
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	28	4	16	8	
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2		1	1	
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2		1	1	
REMOVE EXISTING HANDHOLE	EACH	12		8	4	
REMOVE EXISTING DOUBLE HANDHOLE	EACH	2		1	1	
REMOVE EXISTING CONCRETE FOUNDATION	EACH	15		10	5	
REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	EACH	1	1			
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1		1		
VIDEO VEHICLE DETECTION SYSTEM	EACH	3	1	1	1	
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2		1	1	
SIGNAL TIMING	L SUM	1	0.33	0.33	0.33	
REMOTE CONTROLLED VIDEO SYSTEM	EACH	3	1	1	1	
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC, SPECIAL	EACH	70	18	32	20	
HANDHOLE TO BE ADJUSTED	EACH	2		2		
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	2	1		1	
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1		1		
EMERGENCY VEHICLE PRIORITY SYSTEM	EACH	3				3
MODIFY EXISTING CONTROLLER AND CABINET	EACH	2		2		

SCHEDULE OF POST & FOUNDATION QUANTITIES

REF.	LOCATION	TYPE	FOUNDATION TYPE	FOUNDATION DEPTH	STATION	OFFSET
ARMOUR ROAD & ARTHUR BURCH DRIVE						
MA-1	NORTHEAST QUANDRANT	S MAA & P 52	CONC FDN TY E 36D	10.0 FT.	162+11.74	59.66 LT
MA-2	SOUTHEAST QUANDRANT	STL COMB MAA&P 50	CONC FDN TY E 36D	10.0 FT.	162+11.96	57.52 RT
MA-3	SOUTHWEST QUANDRANT	S MAA & P 50	CONC FDN TY E 36D	10.0 FT.	161+12.28	50.58 RT
MA-4	NORTHWEST QUANDRANT	STL COMB MAA&P 50	CONC FDN TY E 36D	10.0 FT.	161+33.59	60.00 LT
TSP-6	NORTHEAST QUANDRANT	TS POST A 15	CONC FDN TY A	3.0 FT	162+20.00	50.03 LT
SERVICE	SOUTHWEST QUANDRANT	GROUND MOUNT	CONC FDN TY A	3.0 FT	161+10.00	61.50 RT
ARMOUR ROAD & ILLINOIS 50						
TSP-1	NORTHEAST QUANDRANT	TS POST A 15	CONC FDN TY A	3.0 FT	167+51.98	110.09 LT
MA-5	NORTHEAST QUANDRANT	STL COMB MAA&P 75	CONC FDN TY E 42D	20.0 FT	167+42.67	52.07 LT
TSP-2	SOUTHEAST QUANDRANT	TS POST A 15	CONC FDN TY A	3.0 FT	167+77.80	69.75 RT
MA-6	SOUTHEAST QUANDRANT	S MAA & P 72	CONC FDN TY E 42D	18.0 FT	167+14.98	67.51 RT
TSP-3	SOUTHWEST QUANDRANT	TS POST A 15	CONC FDN TY A	3.0 FT	165+84.01	89.30 RT
MA-7	SOUTHWEST QUANDRANT	STL COMB MAA&P 72	CONC FDN TY E 42D	25.0 FT	165+95.74	49.96 RT
TSP-4	NORTHWEST QUANDRANT	TS POST A 15	CONC FDN TY A	3.0 FT	165+64.95	76.35 LT
MA-8	NORTHWEST QUANDRANT	S MAA & P 62	CONC FDN TY E 42D	21.0 FT	166+19.52	59.56 LT
SERVICE	SOUTHWEST QUANDRANT	GROUND MOUNT	CONC FDN TY A	3.0 FT	165+76.35	96.32 RT
ARMOUR ROAD & LOCKE DRIVE						
MA-9	NORTHEAST QUANDRANT	S MAA & P 42	CONC FDN TY E 36D	13.0 FT	172+95.21	48.39 LT
TSP-5	SOUTHEAST QUANDRANT	TS POST A 15	CONC FDN TY A	3.0 FT	172+94.94	52.81 RT
MA-10	SOUTHEAST QUANDRANT	STL COMB MAA&P 40	CONC FDN TY E 36D	13.0 FT	173+18.29	42.92 RT
MA-11	SOUTHWEST QUANDRANT	S MAA & P 48	CONC FDN TY E 36D	13.0 FT	172+07.19	52.84 RT
MA-12	NORTHWEST QUANDRANT	STL COMB MAA&P 64	CONC FDN TY E 42D	21.0 FT	171+96.38	58.03 LT
SERVICE	SOUTHEAST QUANDRANT	GROUND MOUNT	CONC FDN TY A	3.0 FT	173+23.02	42.45 RT

SCHEDULE OF HANDHOLE QUANTITIES

REF.	LOCATION	TYPE	STATION	OFFSET
ARMOUR ROAD & ARTHUR BURCH DRIVE				
DHH-1	SOUTHEAST QUANDRANT	DBL HANDHOLE PCC	161+20.00	54.33 RT
HH-2	SOUTHWEST QUANDRANT	HANDHOLE PCC	162+11.99	64.56 RT
HH-3	NORTHWEST QUANDRANT	HANDHOLE PCC	161+30.67	47.42 LT
HH-4	NORTHEAST QUANDRANT	HANDHOLE PCC	162+13.64	50.11 LT
HH-5	SOUTH SIDE ARMOUR ROAD	HANDHOLE PCC	163+22.73	62.55 RT
HH-6	SOUTH SIDE ARMOUR ROAD	HANDHOLE PCC	163+88.70	62.55 RT
ARMOUR ROAD & ILLINOIS 50				
DHH-7	SOUTHWEST QUANDRANT	DBL HANDHOLE PCC	165+72.22	76.56 RT
HH-8	SOUTHWEST QUANDRANT	HANDHOLE PCC	165+90.00	52.52 RT
HH-9	NORTHWEST QUANDRANT	HANDHOLE PCC	165+75.00	81.37 LT
HH-10	NORTHWEST QUANDRANT	HANDHOLE PCC	166+14.64	79.36 LT
HH-11	SOUTHEAST QUANDRANT	HANDHOLE PCC	167+20.38	73.42 RT
HH-12	SOUTHEAST QUANDRANT	HANDHOLE PCC	167+63.95	79.43 RT
HH-13	NORTHEAST QUANDRANT	HANDHOLE PCC	167+49.32	46.63 LT
HH-14	SOUTH SIDE ARMOUR ROAD	HANDHOLE PCC	169+34.02	49.58 RT
HH-19	WEST SIDE ILLINOIS 50	HANDHOLE PCC	1294+75.00	52.00 LT
ARMOUR ROAD & LOCKE DRIVE				
HH-15	SOUTHWEST QUANDRANT	HANDHOLE PCC	171+83.88	40.98 RT
DHH-16	SOUTHEAST QUANDRANT	DBL HANDHOLE PCC	172+98.00	55.89 RT
HH-17	NORTHEAST QUANDRANT	HANDHOLE PCC	173+10.00	36.15 LT
HH-18	NORTHWEST QUANDRANT	HANDHOLE PCC	172+00.91	58.70 LT
HH-20	ARMOUR ROAD	HANDHOLE PCC	174+83.21	37.15 RT

SCHEDULE OF SIGNAL HEAD QUANTITIES

QTY.	UNIT	ITEM	SIGNAL #
16	EACH	SH P LED 1F 3S BM	4,9,13,18,23,25,31,33,39,41,47,49,54,58,63,67
30	EACH	SH P LED 1F 3S MAM	2,6,7,11,15,16,19,20,21,22,27,28,29,30,35,36,37,38,43,44,45,46,51,52,56,57,60,61,65,66
70	EACH	TS BCKPLT L F PL SPL	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34, 35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65, 66,67,68,69,70
18	EACH	SH P LED 1F 5S BM	3,8,12,17,24,26,32,34,40,42,48,50,53,59,62,68,69,70
6	EACH	SH P LED 1F 5S MAM	1,5,10,14,55,64
28	EACH	PED, SH, P, LED, 1F, BM CT	

MODEL: 260_TS_Schedules
FILE NAME: P1020-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D3669497-Sht-TSQ1.dgn

Kaskaskia Engineering Group, LLC
300 E. Main St., Suite 300, Belleville, Illinois 62220
618.233.5977 phone 618.233.5975 fax www.kaskaskiaeng.com
PROFESSIONAL REGISTRATIONS: Illinois Professional Design Firm: Professional Engineering Group
LICENSE NO.: 184.005773 20.5800165

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL SCHEDULE
ARMOUR ROAD AND ILLINOIS 50

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	261
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		

ELECTRICAL GENERAL NOTES

1. ALL SIGNAL HEADS SHALL HAVE 12" SECTIONS. MOUNTING HARDWARE SHALL BE UNPAINTED ALUMINUM. ALL BOLTS, SCREWS, NUTS AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SEIZE PAST COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE CONNECTIONS.

2. BACKPLATES SHALL BE ABS PLASTIC, POLYCARBONATE, LOUVERED FORMED BACKPLATES WITH FLOURESCENT YELLOW SHEETING.

3. THE LOCATION OF MAST ARM SUPPORTS SHALL BE APPROVED BY THE ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED. MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT OR 2 FEET FROM THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. IN CURBED SECTION, THE MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM THE FACE OF THE CURB. THESE DISTANCES ARE TO THE NEAR FACE OF THE MAST ARM POLE.

4. ALL TRAFFIC SIGNAL CABLES SHALL BE #14 A.W.G. STRANDED COPPER UNLESS OTHERWISE SPECIFIED.

5. ALL HANDHOLE'S SHALL BE CAST-IN-PLACE PORTLAND CEMENT CONCRETE (PER ARTICLE 814.03). THE CAST-IN-PLACE LEGEND IN THE COVER SHALL BE "TRAFFIC SIGNALS". SLOPE HANDHOLE COVERS TO MATCH PROPOSED GRADE ELEVATIONS. HANDHOLE LIDS SHALL OPEN SO THAT YOU ARE FACING THE ROAD.

6. MAST ARM FOUNDATION DEPTHS SHOWN ARE APPROXIMATE. THE ENGINEER WILL PROVIDE SOIL BORINGS TO DETERMINE ACTUAL MAST ARM FOUNDATION DEPTHS. THE CONTRACTOR SHALL VERIFY REQUIRED DEPTHS PRIOR TO STEEL FABRICATION AND CONSTRUCTION OF CONCRETE FOUNDATIONS.

7. CENTER TO CENTER DISTANCE BETWEEN THE CONDUITS, WHERE TWO OR MORE LOOP LEAD-IN CONDUITS ARE INSTALLED FROM THE EDGE OF THE PAVEMENT TO THE NEAREST HANDHOLE, SHALL BE SIX INCHES MINIMUM AT THE EDGE OF PAVEMENT.

8. THERE SHALL BE FOUR (4) GROUND RODS IN THE CONTROLLER CABINET. GROUND WIRES SHALL BE TYPE XLP, NO. 6 A.W.G., STRANDED COPPER, GREEN COLOR CODED AND IN ACCORDANCE WITH STANDARD 873001 AND SECTION 873 OF THE STANDARD SPECIFICATIONS.

9. PROPOSED CONTROLLER EQUIPMENT SHALL BE COMPATIBLE WITH EXISTING DISTRICT MOBOTREX TRAFFIC SIGNAL EQUIPMENT MONITORING EQUIPMENT AND SOFTWARE.

10. CONDUIT SPLICES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED PART OF THE NEW CONDUIT INSTALLATION.

11. THE LOCATION OF SIGNAL HEADS ON MAST ARMS SHALL BE APPROVED BY THE ENGINEER BEFORE MAST ARMS ARE INSTALLED.

12. ALL CONDUIT IN TRENCH SHALL BE P.V.C. CONDUIT PUSHED MAY BE PVC OR GALVANIZED STEEL. CONDUIT ATTACHED TO STRUCTURE SHALL BE GALVANIZED STEEL.

13. ALL TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN HANHOLES AND JUNCTION BOXES WILL NOT BE ALLOWED.

14. ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL HAVE POLYCARBONATE BLACK HOUSING AND STEEL OR ALUMINUM BRACKETS.

15. THE ELEVATION OF THE TOP OF THE DOUBLE HANDHOLE SHALL BE LESS THAN THE ELEVATION OF THE TOP OF THE CONTROLLER FOUNDATION. THE DOUBLE HANHOLES INSTALLED CLOSE TO THE ROADWAY SHALL OPEN UP TOWARDS THE ROADWAY SO THE ELECTRICAL MAINTAINER IS NOT EXPOSED TO TRAFFIC WHEN WORKING.

16. ALL TRAFFIC SIGNAL CONTROLLERS SHALL INCLUDE NTCIP AND THE VIDEO DETECTION SHALL USE VIDEO G.

17. ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY ATTEMPT TO CONSTRUCT ANY COMPONENT OF THE VARIOUS TRAFFIC SIGNAL INSTALLATIONS.

18. AFTER MILLING, THE CONTRACTOR IS RESPONSIBLE FOR MARKING THE DETECTOR LOOP DIVE HOLES. THE INSTALLATION OF DIVE HOLES AND CORRESPONDING CONDUIT FOR DETECTOR LOOP INSTALLATION SHALL BE INCLUDED IN THE COST OF DETECTOR LOOP, TYPE 1 PAY ITEM.

19. THE MAINLINE STOP BAR DETECTOR LOOPS SHALL BE GREEN EXTENDED SO THE DETECTOR LOOPS DETECT WHEN THERE IS A QUEUE OF TRAFFIC ONLY. AFTER THE QUEUE OF TRAFFIC IS DONE, THE DETECTOR LOOP SHALL NOT EXTEND TIME ANYMORE.

THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE PLANS HAVE BEEN LOCATED AT THE TIME OF SURVEY, OR BASED ON AVAILABLE EXISTING INFORMATION. NO GUARANTEE IS IMPLIED THAT ALL UTILITIES HAVE BEEN LOCATED OR DEPICTED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF ALL UTILITIES. IT MAY BE NECESSARY TO HAND DIG TEST HOLES TO EXPOSE EXISTING UTILITIES AT SOME LOCATIONS.

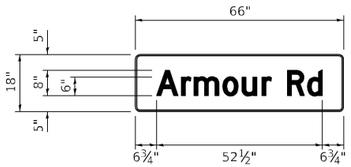
20. SIGN SHEETING FOR MAST ARM SIGNS SHALL BE TYPE ZZ SHEETING.



R3-8, SPECIAL
36" X 30"
A
FURNISH & INSTALL FOUR (4) EACH SIGN
DETAIL OF
SIGN PANEL - TYPE 1
(NOT TO SCALE)



R10-12
30" X 36"
B
FURNISH & INSTALL EIGHT (8) EACH SIGN
DETAIL OF
SIGN PANEL - TYPE 1
(NOT TO SCALE)



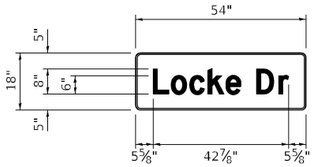
C
FURNISH & INSTALL TWO (6) EACH SIGN
DETAIL OF
SIGN PANEL - TYPE 1
(NOT TO SCALE)



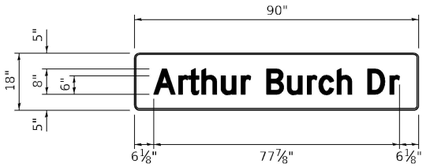
D
FURNISH & INSTALL ONE (2) EACH SIGN
DETAIL OF
SIGN PANEL - TYPE 2
(NOT TO SCALE)



R10-5
30" X 36"
H
FURNISH & INSTALL FOUR (4) EACH SIGN
DETAIL OF
SIGN PANEL - TYPE 1
(NOT TO SCALE)



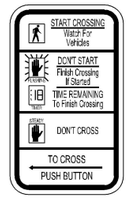
E
FURNISH & INSTALL ONE (2) EACH SIGN
DETAIL OF
SIGN PANEL - TYPE 1
(NOT TO SCALE)



F
FURNISH & INSTALL ONE (2) EACH SIGN
DETAIL OF
SIGN PANEL - TYPE 2
(NOT TO SCALE)



R10-3e
9"x15"
G
FURNISH & INSTALL ONE (13) EACH SIGN



R10-3e
9"x15"
G
FURNISH & INSTALL ONE (15) EACH SIGN

DETAIL OF
SIGN PANEL - TYPE 1
(NOT TO SCALE)

Kaskaskia Engineering Group, LLC
PROFESSIONAL DESIGN FIRM
Illinois Professional Design Firm
Professional Engineering Group
LICENSE NO.
184.007173
20-1000585
200 E. Main St., Suite 100
Mailing: PO Box 610
Salem, IL 62881
618.435.5077 phone
618.435.5075 fax
www.kaskaskiaeng.com

USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 2/3/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ARMOUR ROAD AND ILLINOIS 50

SCALE: | SHEET 1 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	262
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		

MODEL: 261_TS Sheet Notes
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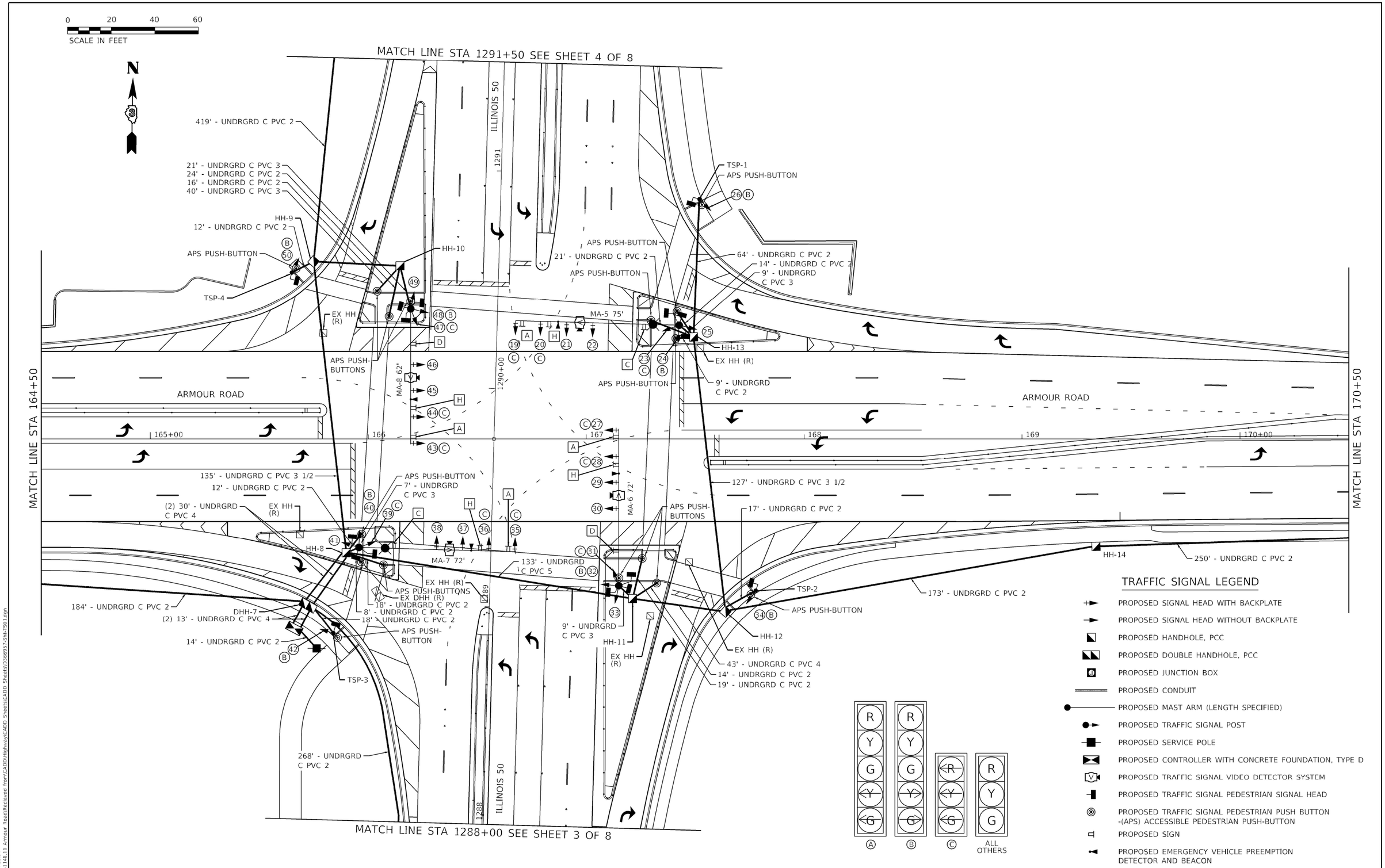

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FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-Sht-TS01.dgn

Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS
Illinois Professional Design Firm
Professional Engineering Group
200 E. Main St., Suite 100
Belleville, Illinois 62220
618.233.5977 phone
618.233.5977 fax
www.kaskaskiaeng.com
LICENSE NO.
184.004773
20-5000165

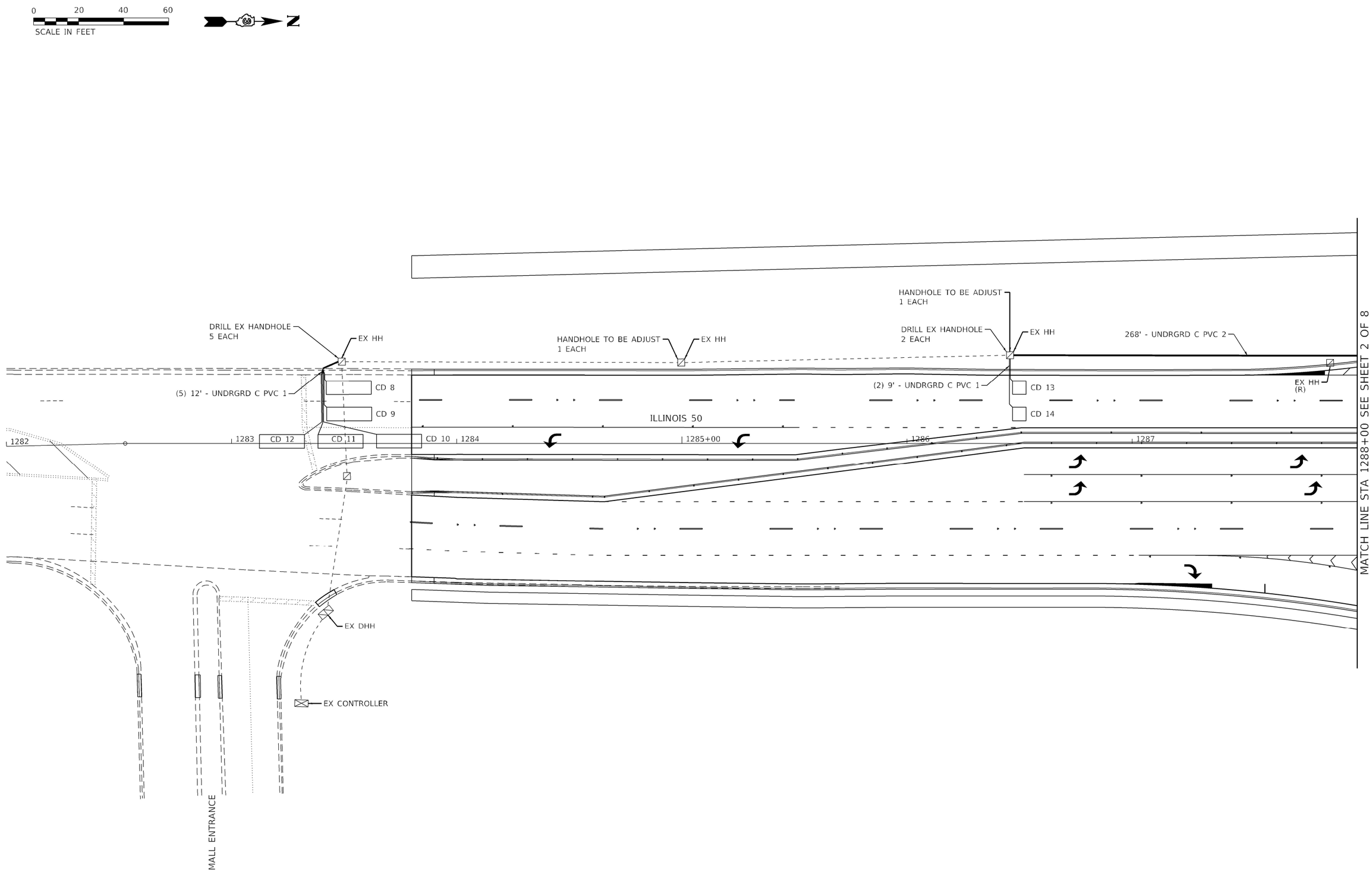
USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 2/3/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ARMOUR ROAD AND ILLINOIS 50

SCALE: 1" = 20' | SHEET 2 OF 8 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	263
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



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Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS
Illinois Professional Design Firm
Professional Engineering Group
LICENSE NO.
184.004713
20-5000185

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PLOT DATE = 2/3/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

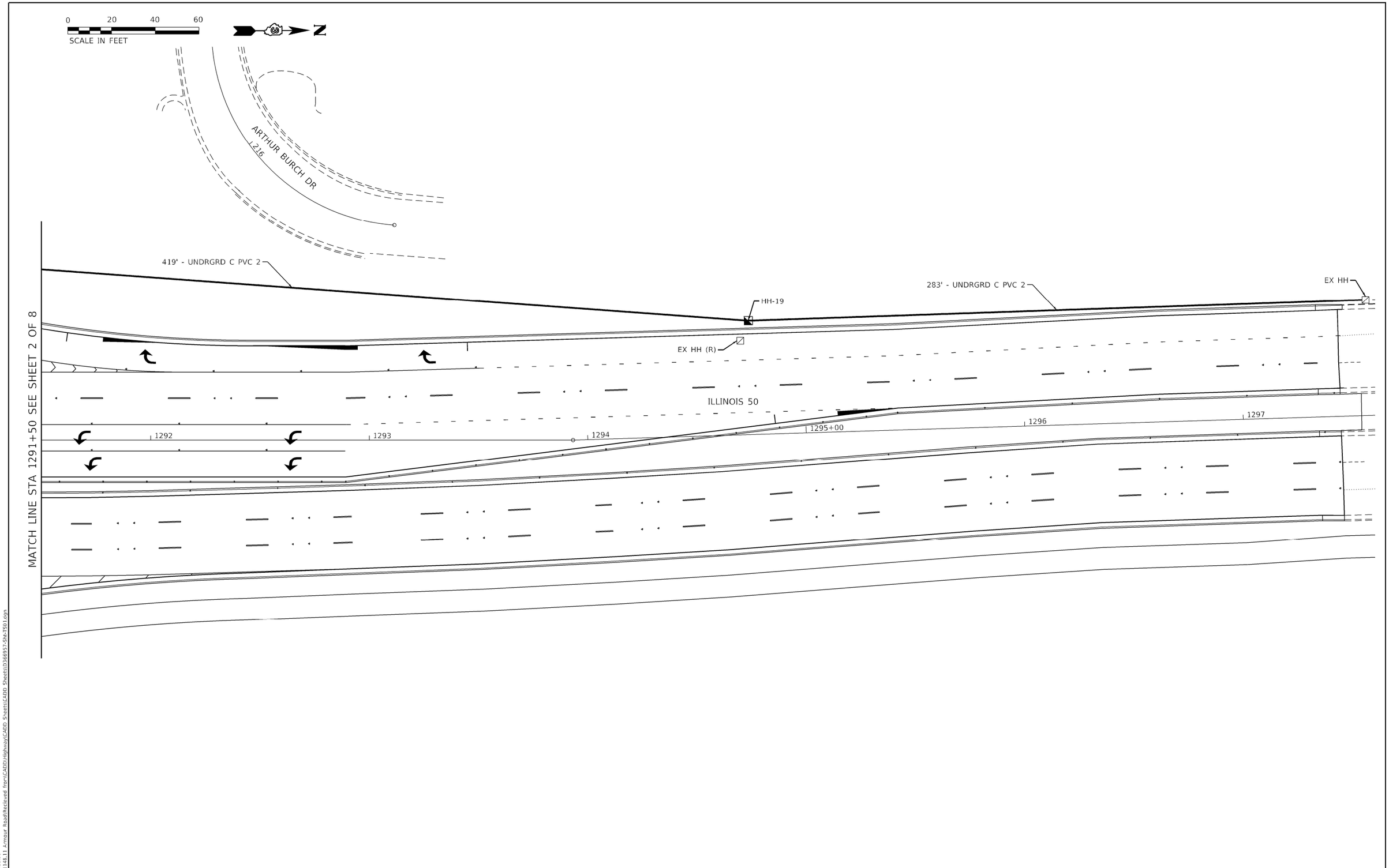
TRAFFIC SIGNAL INSTALLATION PLAN
ARMOUR ROAD AND ILLINOIS 50

SCALE: 1" = 20' | SHEET 3 OF 8 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	264

CONTRACT NO. 66957

ILLINOIS | FED. AID PROJECT



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PROFESSIONAL ENGINEERING LICENSE NO.
Illinois Professional Design Firm 184.004773
Professional Engineering Group 20-5000165

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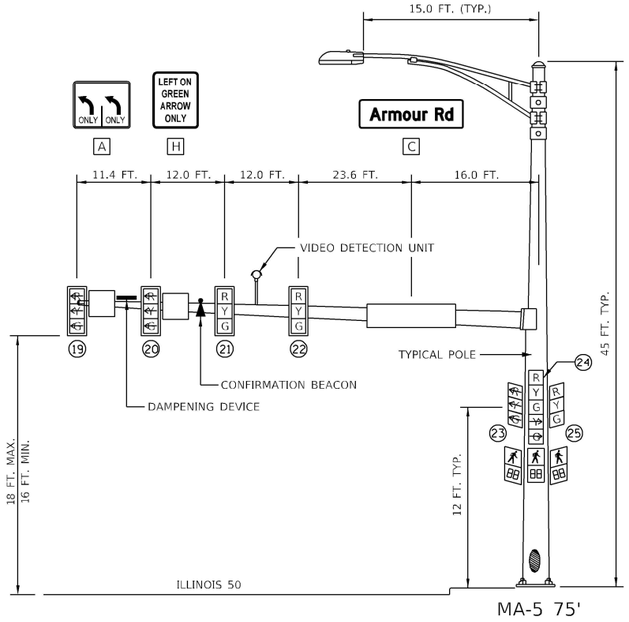
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 2/3/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ARMOUR ROAD AND ILLINOIS 50

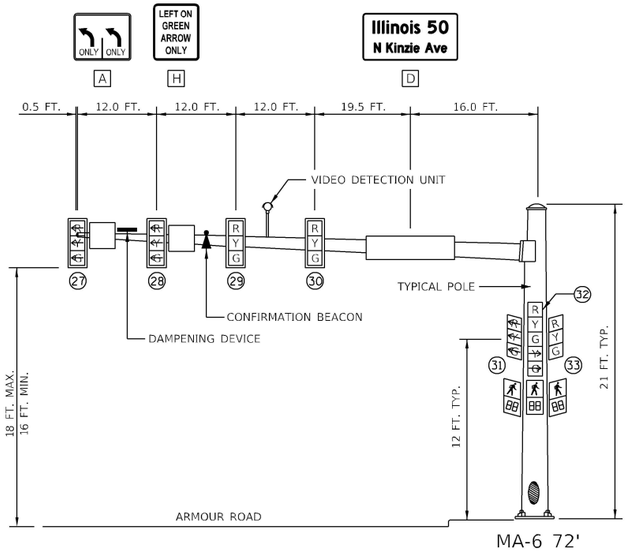
SCALE: 1" = 20' | SHEET 4 OF 8 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	265
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



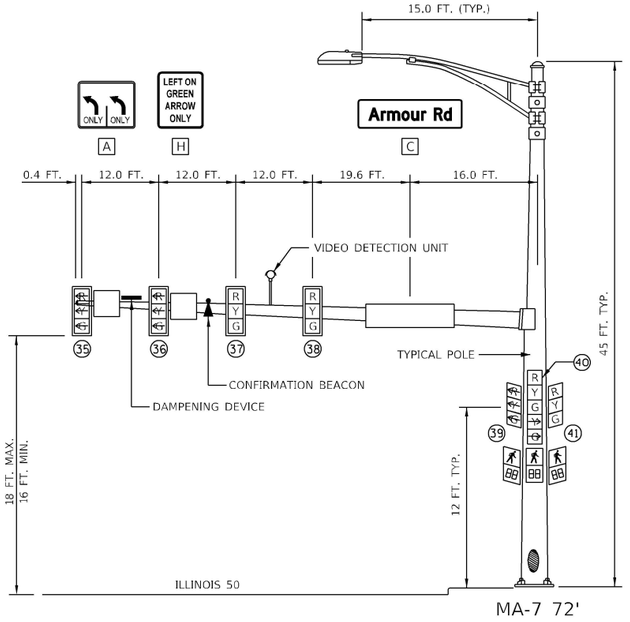
MA-5 75'

NORTHBOUND TRAFFIC SIGNAL
ARMOUR ROAD AND ILLINOIS 50



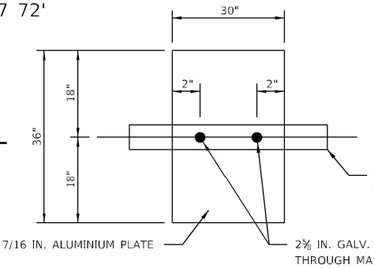
MA-6 72'

EASTBOUND TRAFFIC SIGNAL
ARMOUR ROAD AND ILLINOIS 50



MA-7 72'

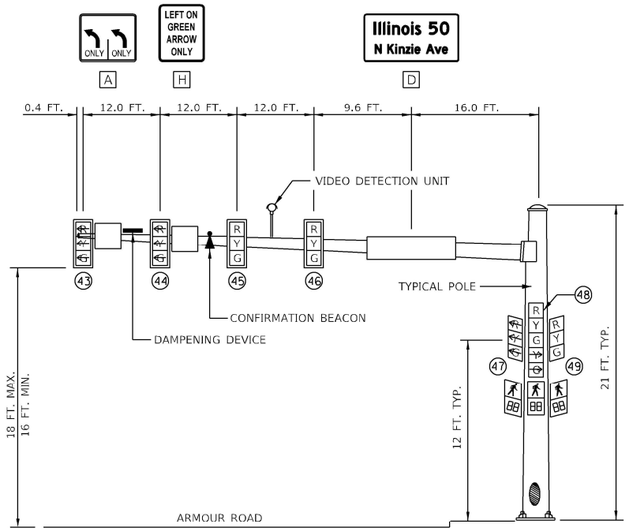
SOUTHBOUND TRAFFIC SIGNAL
ARMOUR ROAD AND ILLINOIS 50



DAMPENING PLATE DETAIL

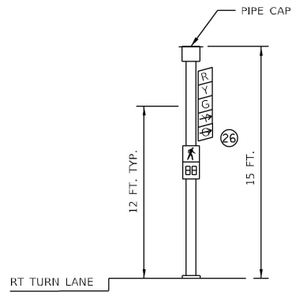
(TOP VIEW) INCIDENTAL TO MAST ARM QUANTITY
NOT TO SCALE

NOTE: DAMPENING DEVICE SHALL CONSIST OF A 30" X 36" TYPE 1 UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. THE COST OF THE DAMPENING DEVICE IS INCLUDED IN THE COST OF THE MAST ARM PAY ITEM.



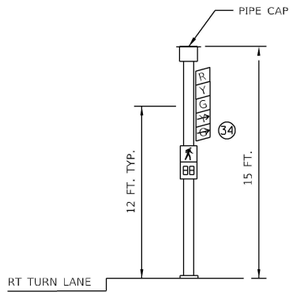
MA-8 62'

WESTBOUND TRAFFIC SIGNAL
ARMOUR ROAD AND ILLINOIS 50



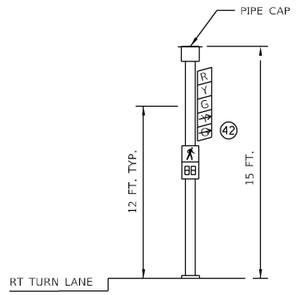
TSP-1

NORTHEAST QUADRANT
ARMOUR ROAD AND ILLINOIS 50



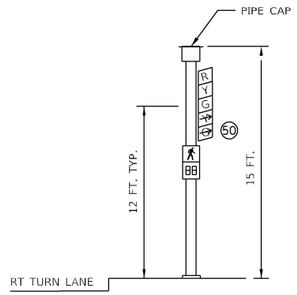
TSP-2

SOUTHEAST QUADRANT
ARMOUR ROAD AND ILLINOIS 50



TSP-3

SOUTHWEST QUADRANT
ARMOUR ROAD AND ILLINOIS 50



TSP-4

NORTHWEST QUADRANT
ARMOUR ROAD AND ILLINOIS 50

MODEL: 265_TS_Sheet 12
FILE NAME: P:\Jb-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D3366957-SN-TS01.dgn

Kaskaskia Engineering Group, LLC
300 E. Main St., Suite 300, Belleville, Illinois 62220, 618.233.5877 phone, 618.233.5977 fax, www.kaskaskiaeng.com
PROFESSIONAL DESIGN FIRM — LICENSE NO.
Illinois Professional Design Firm — 184.005753
Professional Engineering Group — 20-5000165

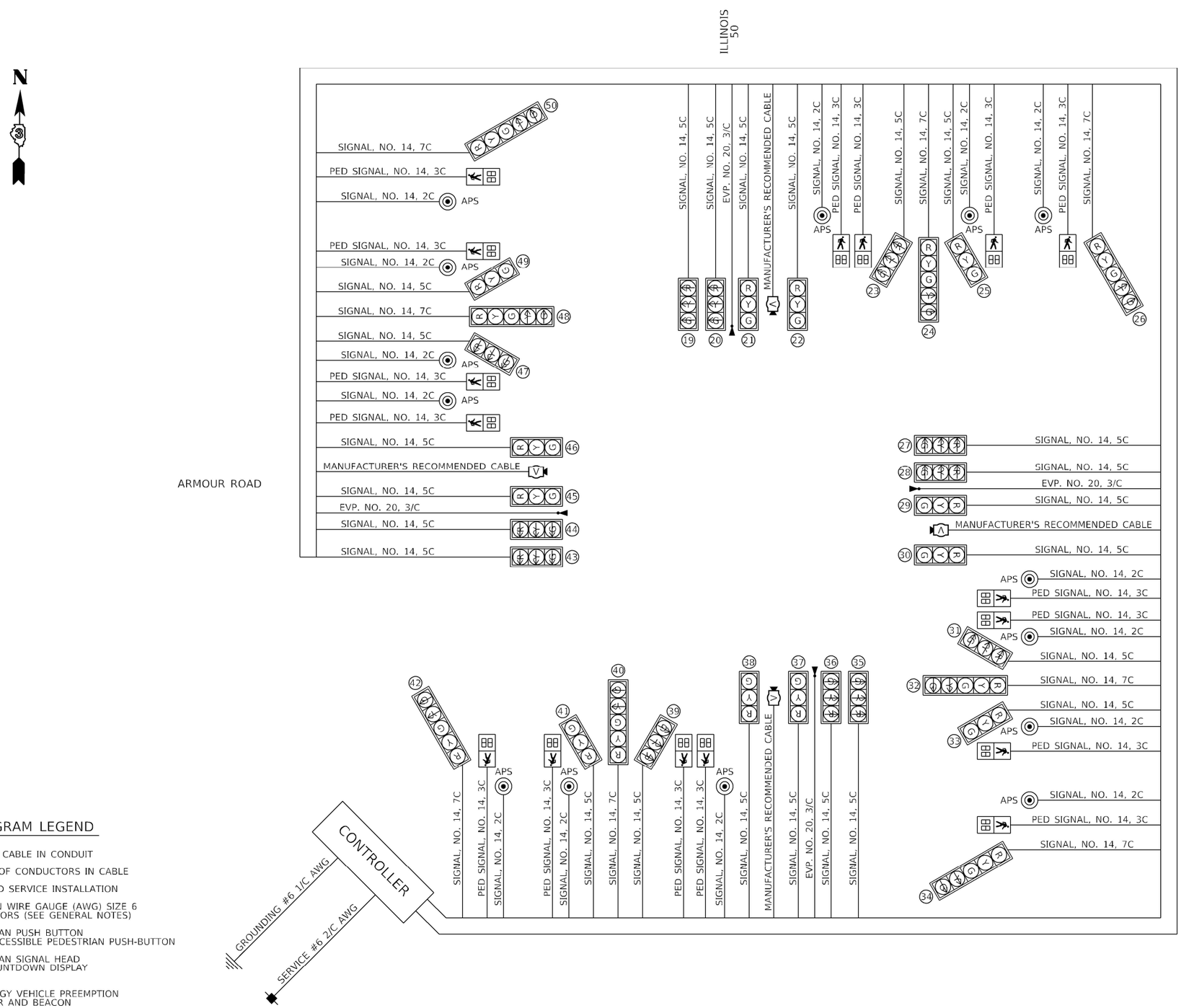
USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 5/19/2022	DATE - 10/2020	REVISED -	

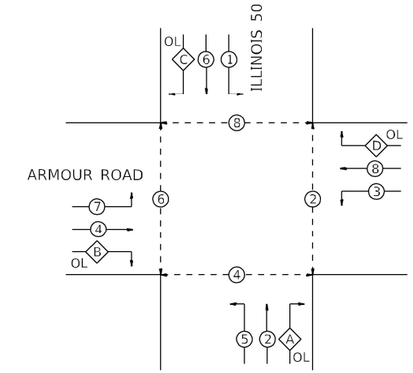
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST DETAILS ILLINOIS 50

SCALE: | SHEET 5 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	266
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	





PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PROTECTED PHASE
A	=	3
B	=	5
C	=	7
D	=	1

LEGEND

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

CABLE DIAGRAM LEGEND

- ELECTRIC CABLE IN CONDUIT
- 5/C — NUMBER OF CONDUCTORS IN CABLE
- PROPOSED SERVICE INSTALLATION
- NO. 6 — AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)
- PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH-BUTTON
- PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN DISPLAY
- EMERGENGY VEHICLE PREEMPTION DETECTOR AND BEACON
- PROPOSED TRAFFIC SIGNAL VIDEO DETECTOR SYSTEM
- GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE

MODEL: 266_TS_Sheet07
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-Sht-TS01.dgn

Kaskaskia Engineering Group, LLC
PROFESSIONAL ENGINEERING LICENSE NO. 184.004773
Illinois Professional Design Firm
Professional Engineering Group
20-5080186

USER NAME = rjo	DESIGNED - LDC	REVISED -	
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PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 2/3/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

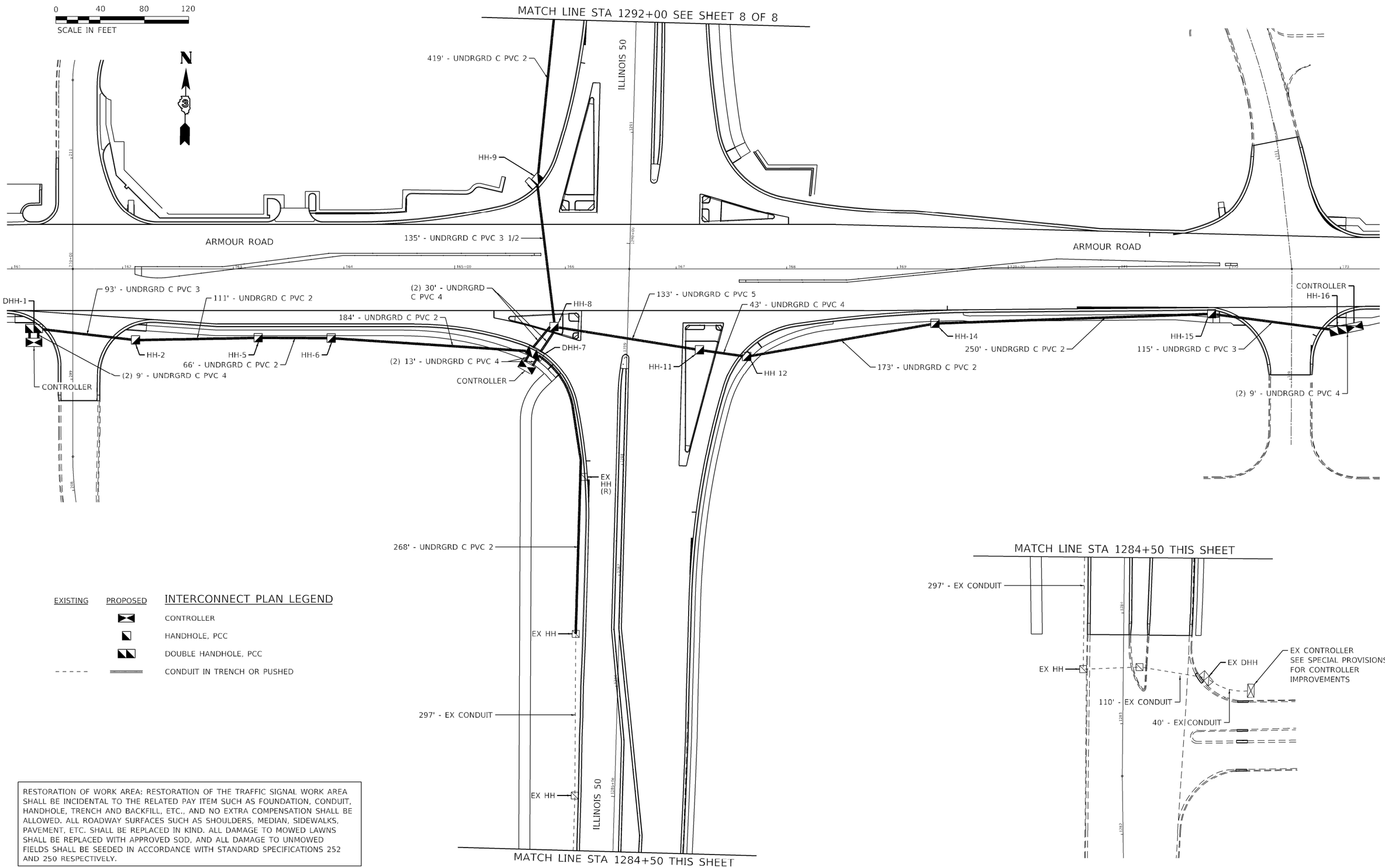
TRAFFIC SIGNAL INSTALLATION PLAN
ARMOUR ROAD AND ILLINOIS 50

SCALE: | SHEET 6 OF 8 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	267

CONTRACT NO. 66957

ILLINOIS | FED. AID PROJECT



EXISTING	PROPOSED	INTERCONNECT PLAN LEGEND
		CONTROLLER
		HANDHOLE, PCC
		DOUBLE HANDHOLE, PCC
- - - -		CONDUIT IN TRENCH OR PUSHED

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

MODEL: 267_TS_Sheet14
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-Sht-TS01.dgn

Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS
Illinois Professional Design Firm
Professional Engineering Group

USER NAME = rjo	DESIGNED - LDC	REVISED -	
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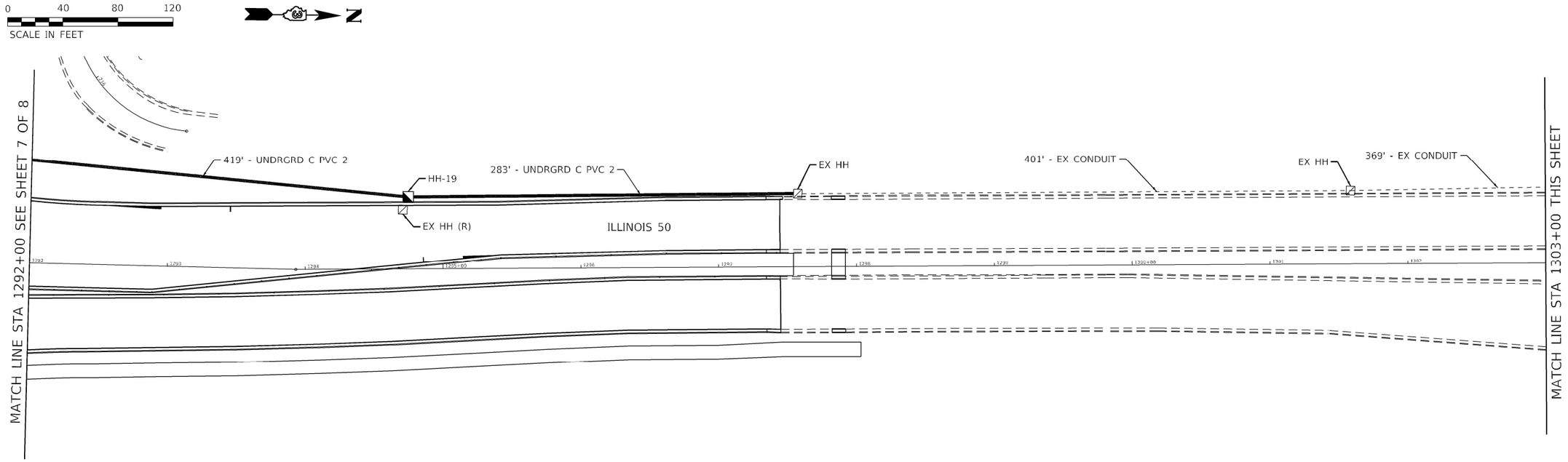
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 2/3/2022	DATE - 10/2020	REVISED -	

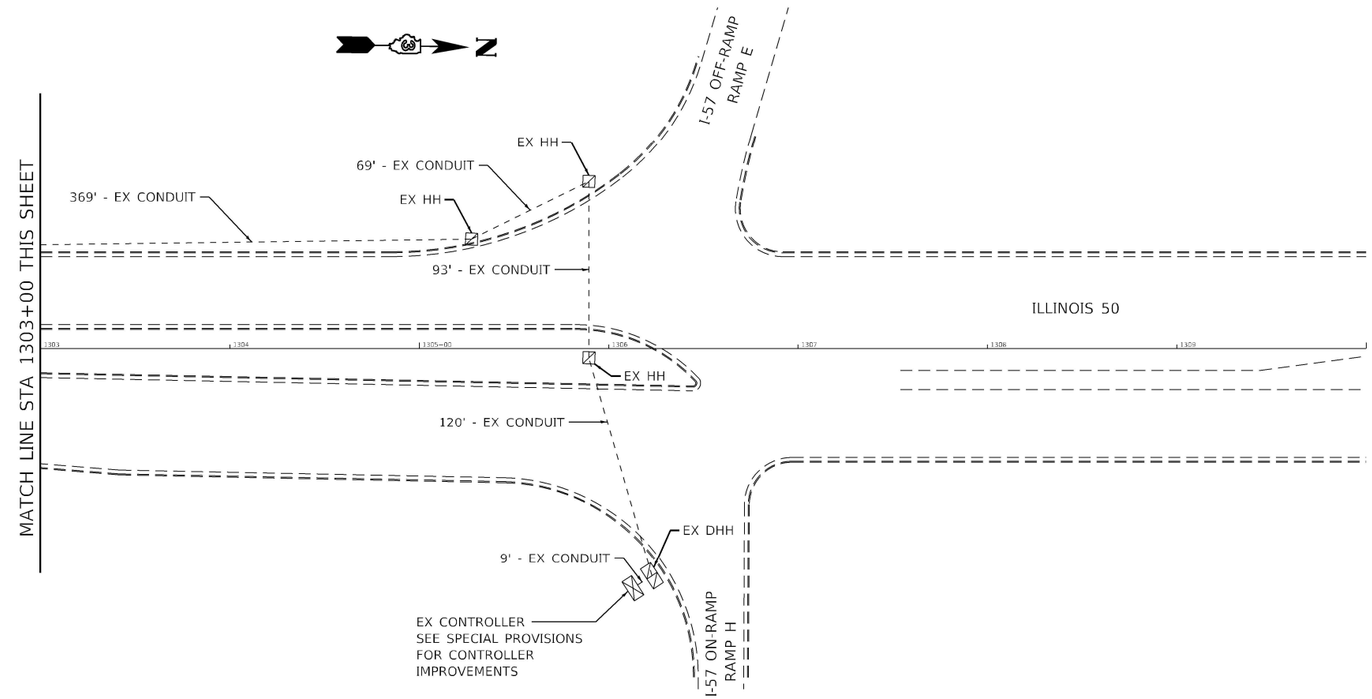
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INTERCONNECT PLAN
ARMOUR ROAD AND ILLINOIS 50

SCALE: 1" = 40' | SHEET 7 OF 8 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	268
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	





EXISTING	PROPOSED	INTERCONNECT PLAN LEGEND
		CONTROLLER
		HANDHOLE, PCC
		DOUBLE HANDHOLE, PCC
		CONDUIT IN TRENCH OR PUSHED

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

MODEL: 268_TS_Sheet15
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Kaskaskia Engineering Group, LLC
PROFESSIONAL SECRETARIES
Illinois Professional Design Firm
Professional Engineering Group

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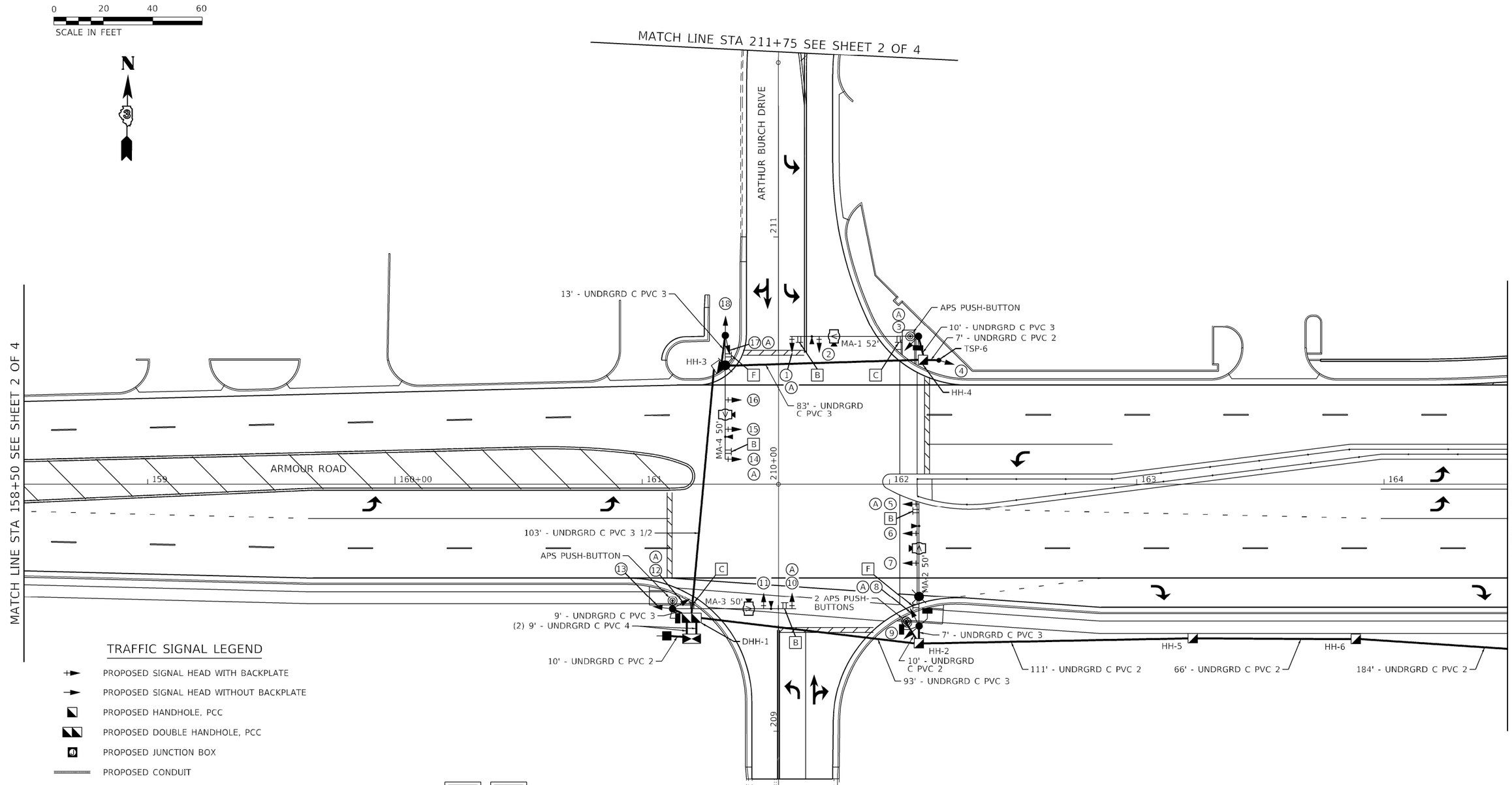
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 2/3/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INTERCONNECT PLAN
ARMOUR ROAD AND ILLINOIS 50

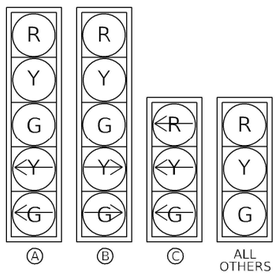
SCALE: 1" = 40' | SHEET 8 OF 8 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	269
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



TRAFFIC SIGNAL LEGEND

- PROPOSED SIGNAL HEAD WITH BACKPLATE
- PROPOSED SIGNAL HEAD WITHOUT BACKPLATE
- PROPOSED HANDHOLE, PCC
- PROPOSED DOUBLE HANDHOLE, PCC
- PROPOSED JUNCTION BOX
- PROPOSED CONDUIT
- PROPOSED MAST ARM (LENGTH SPECIFIED)
- PROPOSED TRAFFIC SIGNAL POST
- PROPOSED SERVICE POLE
- PROPOSED CONTROLLER WITH CONCRETE FOUNDATION, TYPE D
- PROPOSED TRAFFIC SIGNAL VIDEO DETECTOR SYSTEM
- PROPOSED TRAFFIC SIGNAL PEDESTRIAN SIGNAL HEAD
- PROPOSED TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH-BUTTON
- PROPOSED SIGN
- PROPOSED EMERGENCY VEHICLE PREEMPTION DETECTOR AND BEACON



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Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS
Illinois Professional Design Firm
Professional Engineering Group

USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 2/3/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

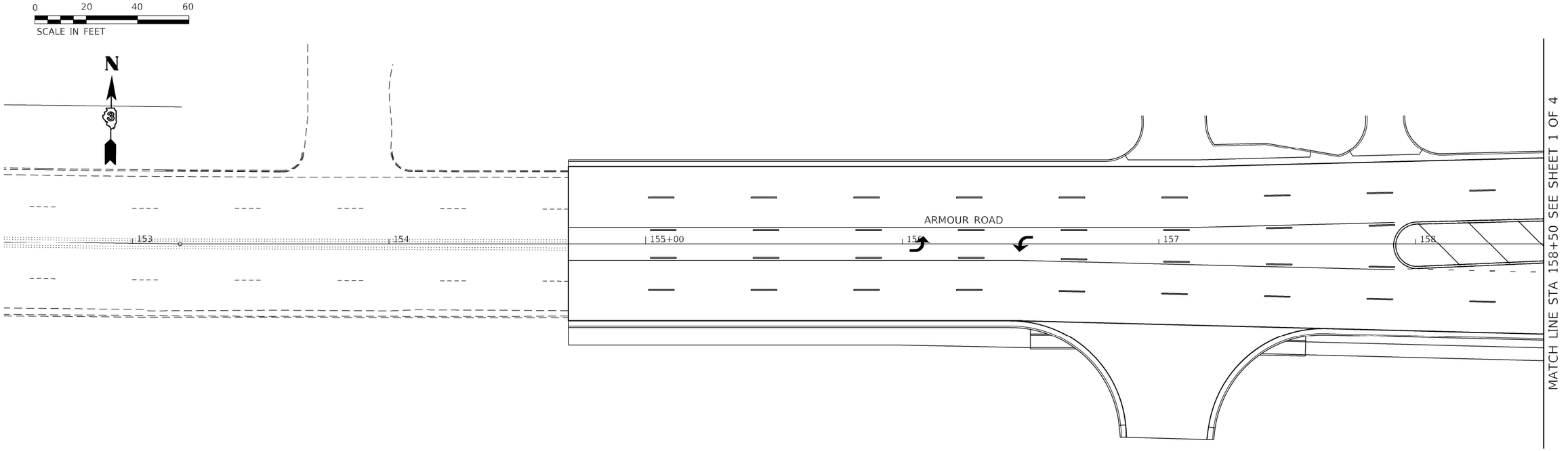
TRAFFIC SIGNAL INSTALLATION PLAN
ARMOUR ROAD AND ARTHUR BURCH

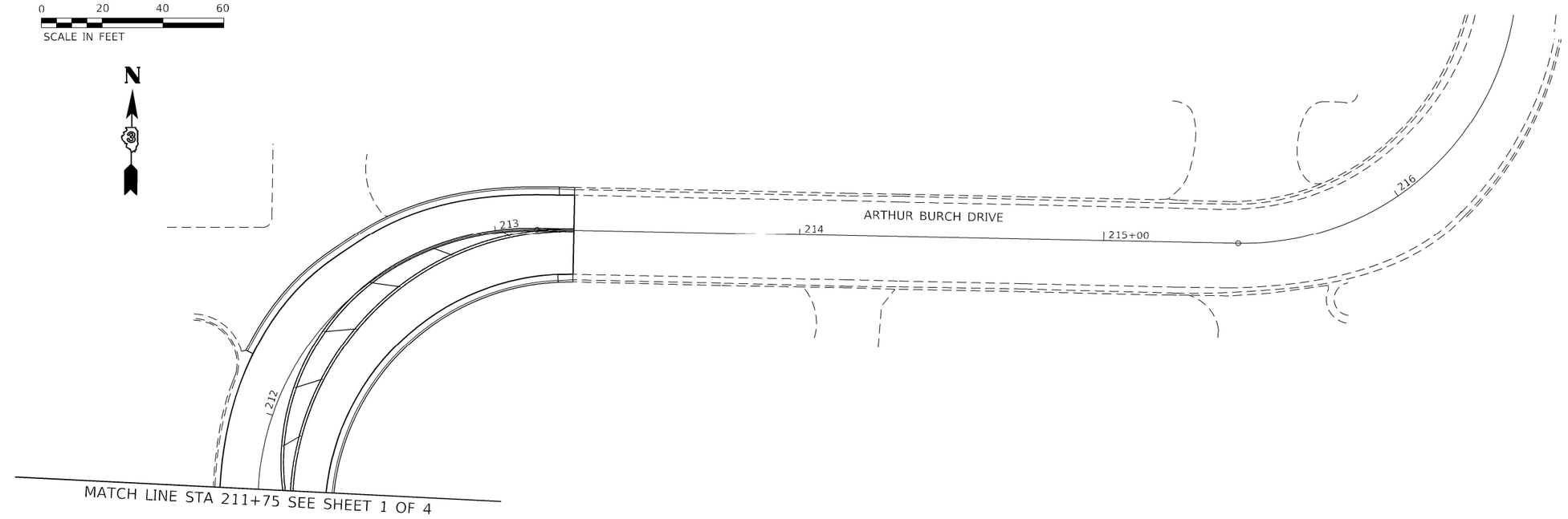
SCALE: 1" = 20' | SHEET 1 OF 4 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	270

CONTRACT NO. 66957

ILLINOIS | FED. AID PROJECT





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Kaskaskia Engineering Group, LLC
PROFESSIONAL SPECIFICATIONS
Illinois Professional Design Firm
Professional Engineering Group

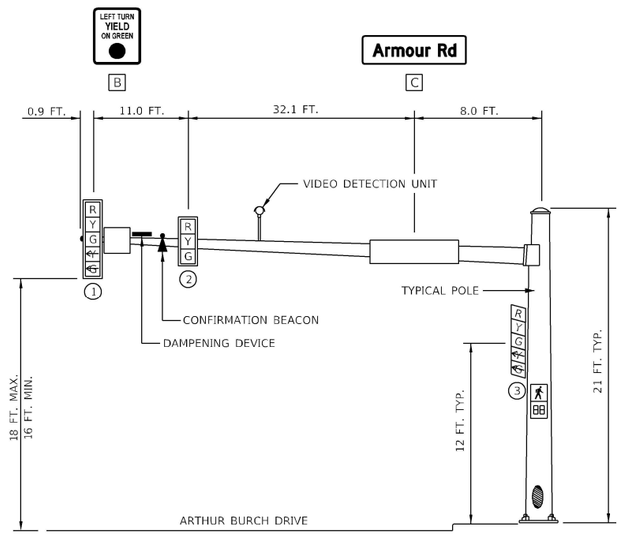
USER NAME = rjo	DESIGNED - LDC	REVISED -	
	DRAWN - RJO	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 2/3/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ARMOUR ROAD AND ARTHUR BURCH

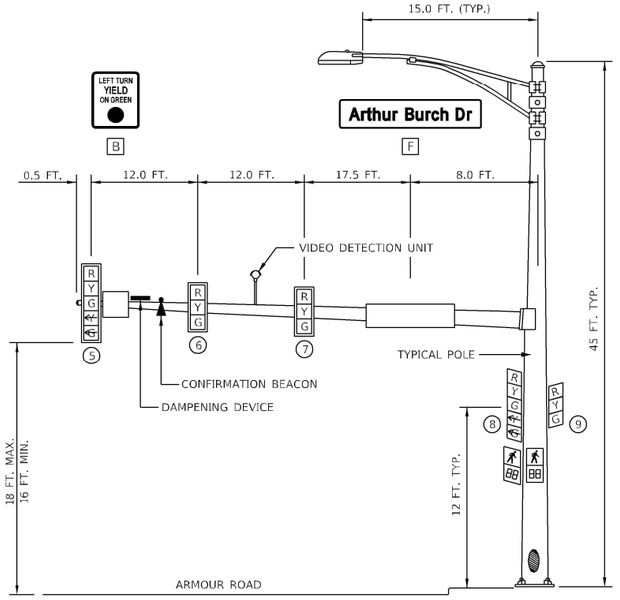
SCALE: 1" = 20' | SHEET 2 OF 4 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	271
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



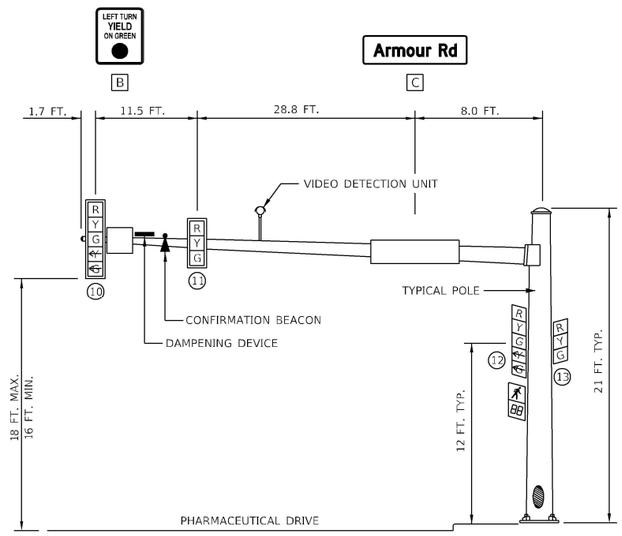
MA-1 52'

NORTHBOUND TRAFFIC SIGNAL
ARMOUR ROAD AND ARTHUR BURCH DRIVE



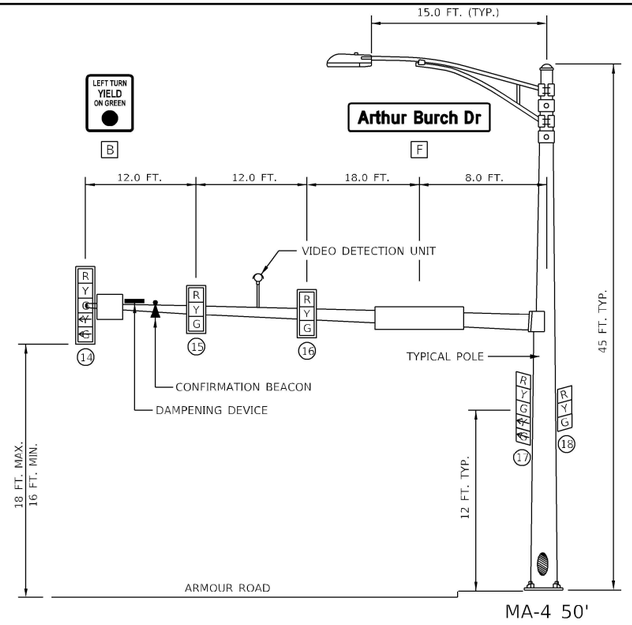
MA-2 50'

EASTBOUND TRAFFIC SIGNAL
ARMOUR ROAD AND ARTHUR BURCH DRIVE



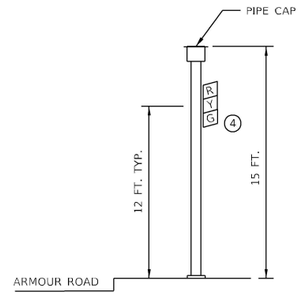
MA-3 50'

SOUTHBOUND TRAFFIC SIGNAL
ARMOUR ROAD AND ARTHUR BURCH DRIVE



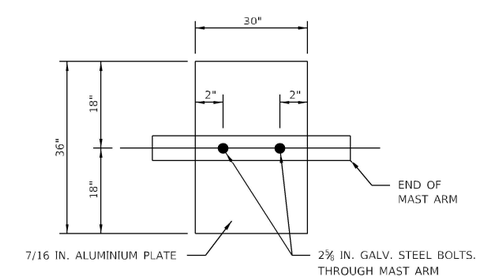
MA-4 50'

WESTBOUND TRAFFIC SIGNAL
ARMOUR ROAD AND ARTHUR BURCH DRIVE



TSP-6

NORTHEAST QUADRANT
ARMOUR ROAD AND ARTHUR BURCH DRIVE



DAMPENING PLATE DETAIL

(TOP VIEW) INCIDENTAL TO MAST ARM QUANTITY
NOT TO SCALE

NOTE: DAMPENING DEVICE SHALL CONSIST OF A 30" X 36" TYPE 1 UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. THE COST OF THE DAMPENING DEVICE IS INCLUDED IN THE COST OF THE MAST ARM PAY ITEM.

MODEL: 271_TS_Sheet 11
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PROFESSIONAL REGISTRATIONS
Illinois Professional Design Firm
Professional Engineering Group
LICENSE NO.
184.004773
20-5000186

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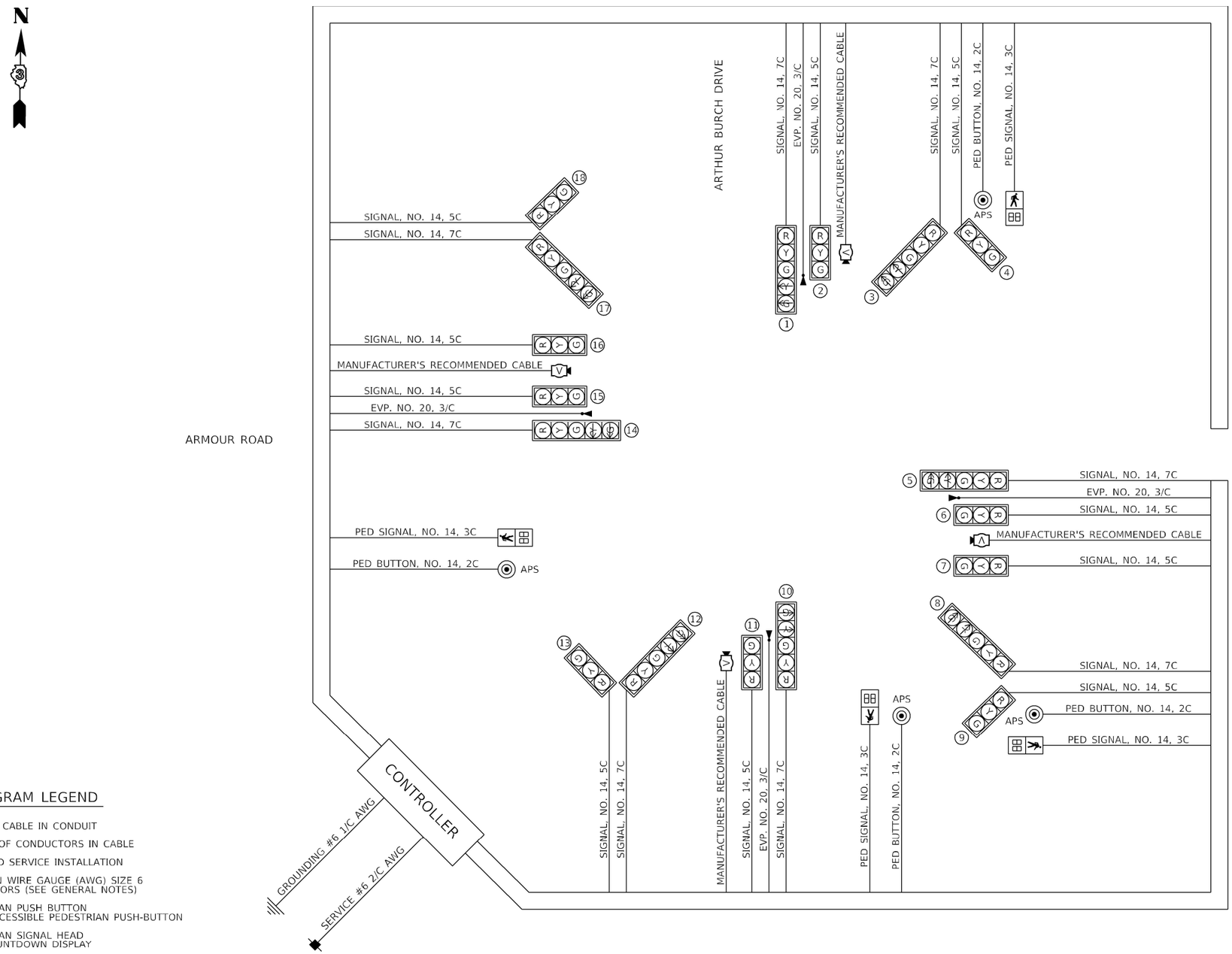
PLOT DATE = 5/19/2022	DATE - 10/2020	REVISED -	

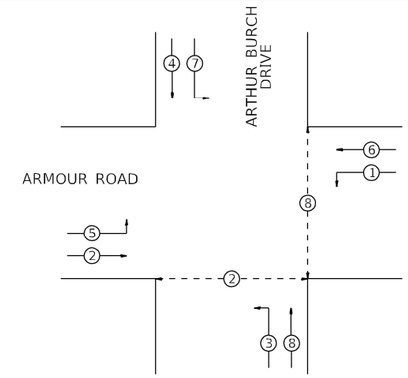
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MAST ARM AND
SIGNAL POST DETAILS ARTHUR BURCH DRIVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	272
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	





PHASE DESIGNATION DIAGRAM

LEGEND

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

CABLE DIAGRAM LEGEND

- ELECTRIC CABLE IN CONDUIT
- 5/C — NUMBER OF CONDUCTORS IN CABLE
- PROPOSED SERVICE INSTALLATION
- NO. 6 — AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)
- PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH-BUTTON
- PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN DISPLAY
- EMERGENGY VEHICLE PREEMPTION DETECTOR AND BEACON
- PROPOSED TRAFFIC SIGNAL VIDEO DETECTOR SYSTEM
- GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE

MODEL: 272_TS_Sheet03
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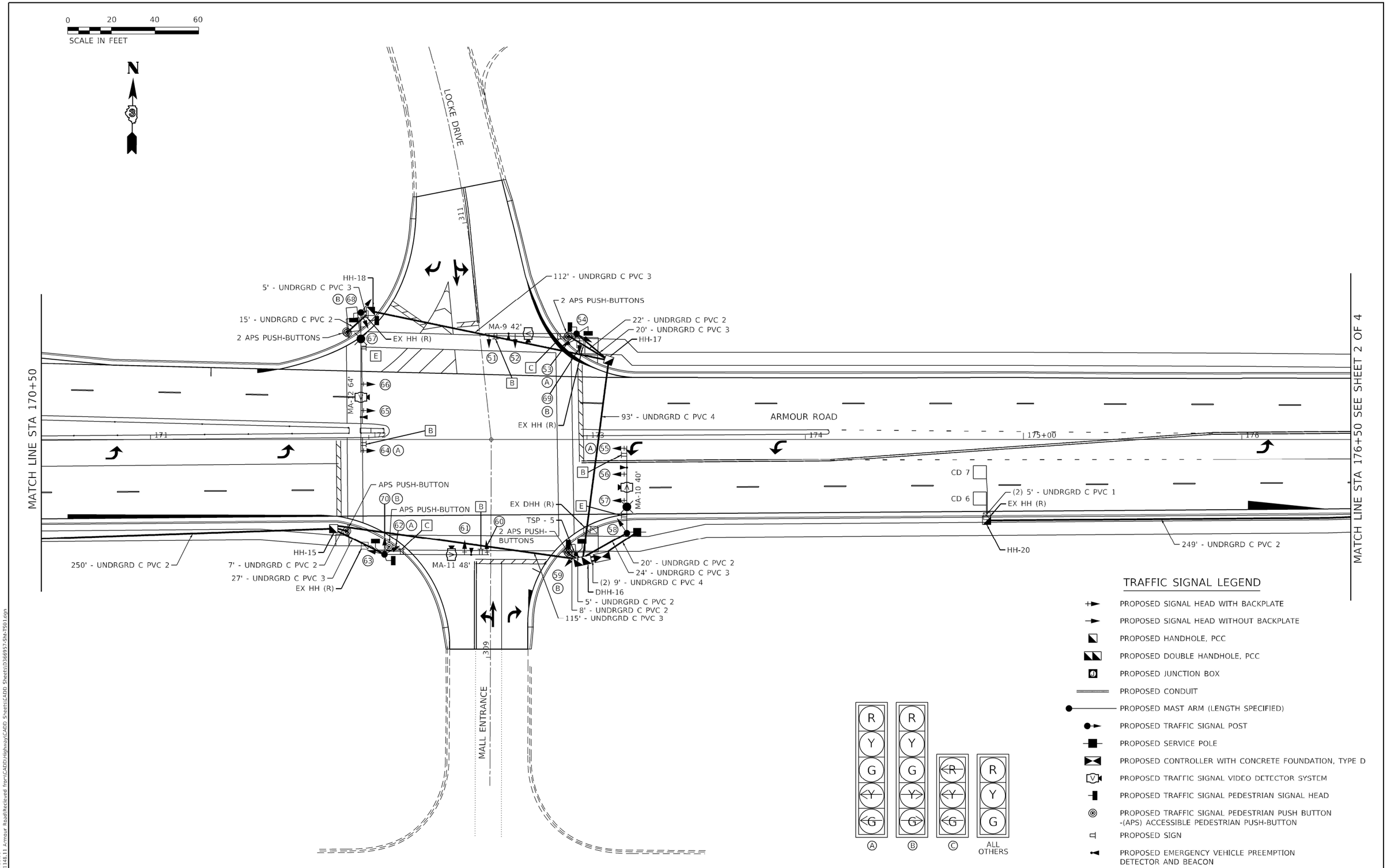
PLOT DATE = 2/3/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ARMOUR ROAD AND ARTHUR BURCH

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	273
		CONTRACT NO. 66957		
		ILLINOIS FED. AID PROJECT		



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PLOT DATE = 2/3/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ARMOUR ROAD AND LOCKE DRIVE

SCALE: 1" = 20' | SHEET 1 OF 4 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	274
		CONTRACT NO. 66957		
		ILLINOIS FED. AID PROJECT		

0 20 40 60
SCALE IN FEET

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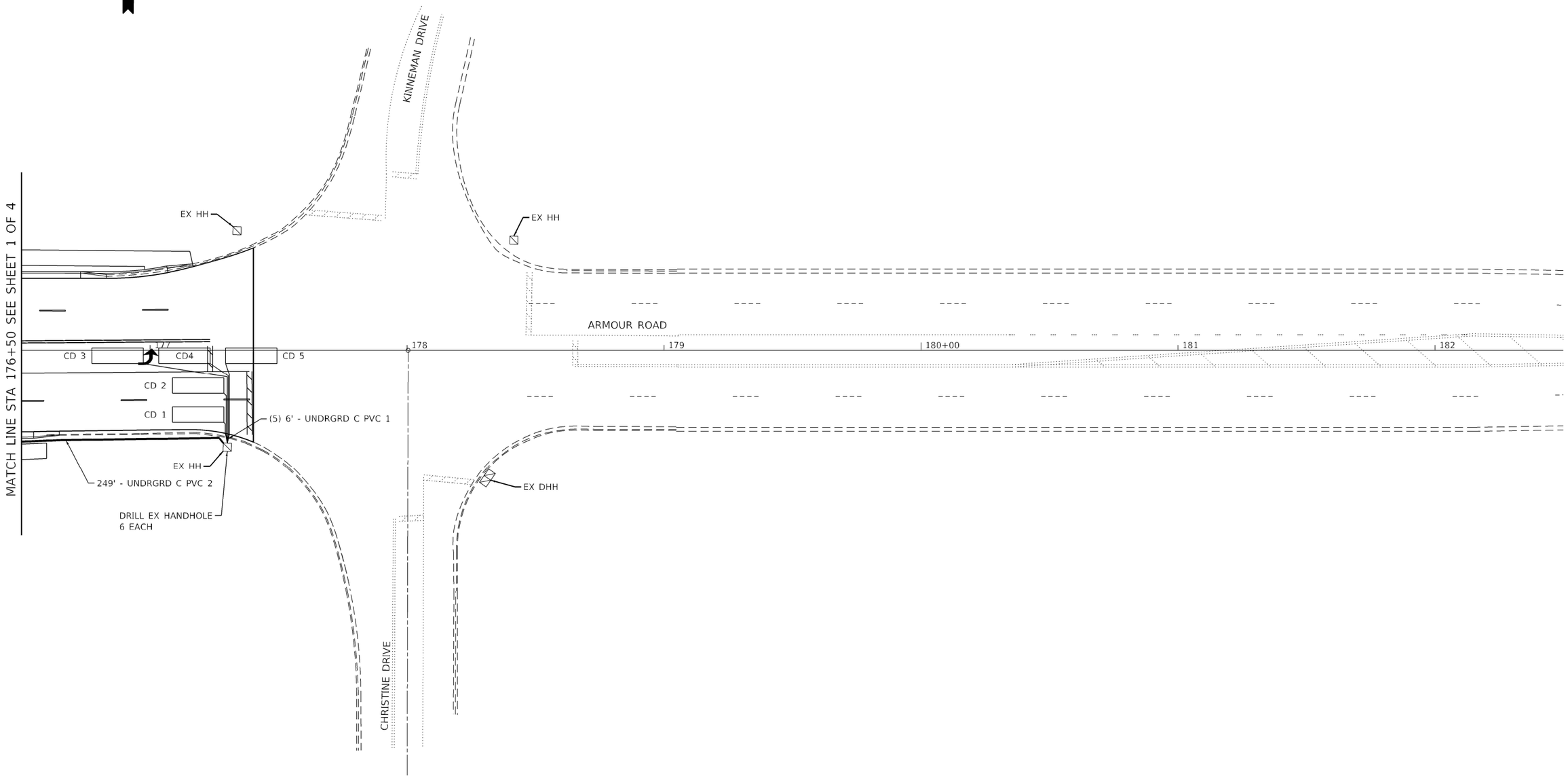

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Kaskaskia Engineering Group, LLC
300 E. Main St., Suite 300, Belleville, Illinois 62220
618.233.5977 phone
618.233.5975 fax
www.kaskaskiaeng.com
PROFESSIONAL REGISTRATIONS
Illinois Professional Design Firm: 184.007773
Professional Engineering Group: 20.5880165

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PLOT DATE = 2/3/2022	DATE - 10/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ARMOUR ROAD AND LOCKE DRIVE

SCALE: 1" = 20' | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	275
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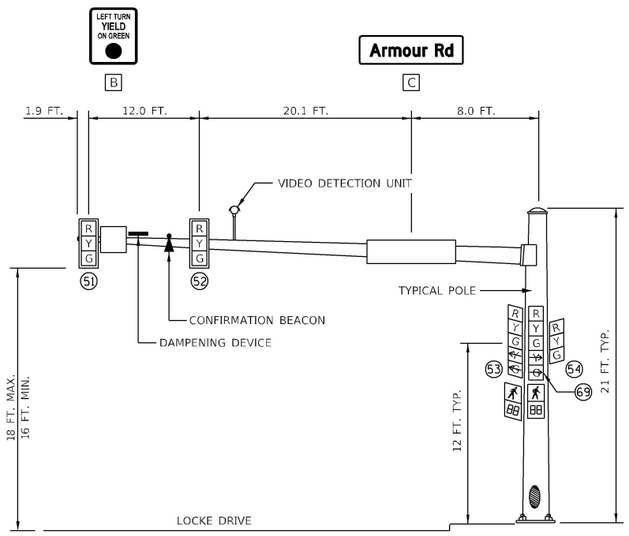
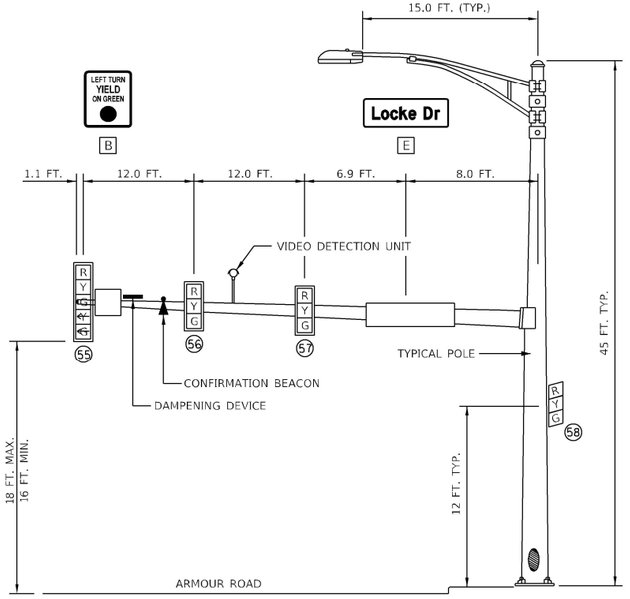
		ILLINOIS	FED. AID PROJECT	



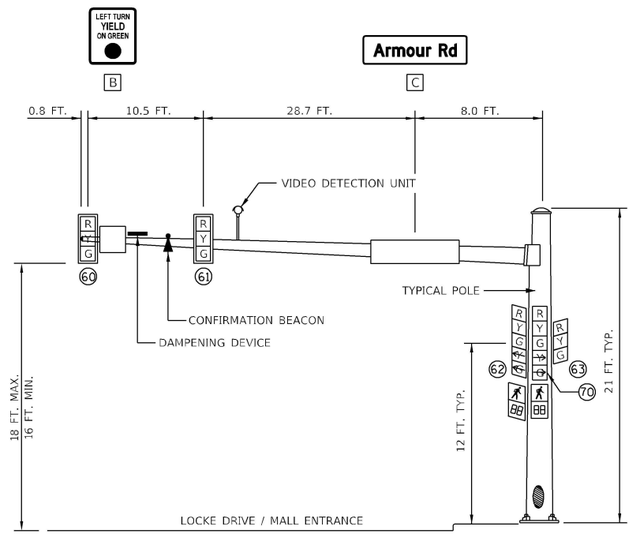
MA-9 42'

NORTHBOUND TRAFFIC SIGNAL
ARMOUR ROAD AND LOCKE DRIVE



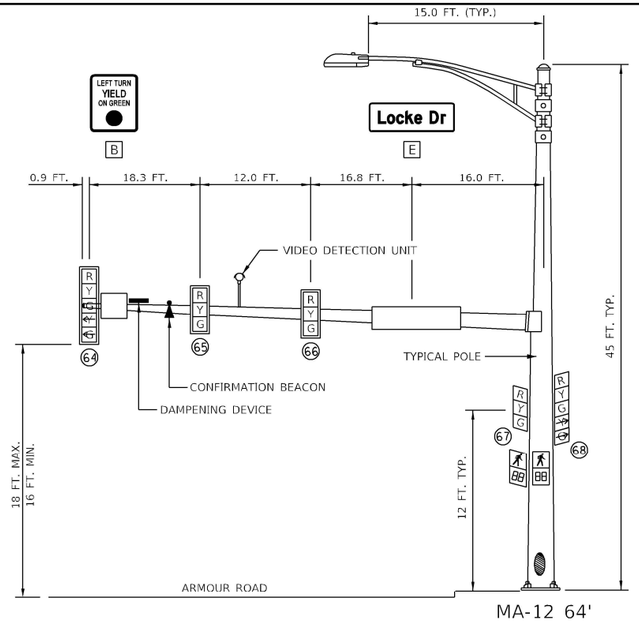
MA-10 40'

EASTBOUND TRAFFIC SIGNAL
ARMOUR ROAD AND LOCKE DRIVE



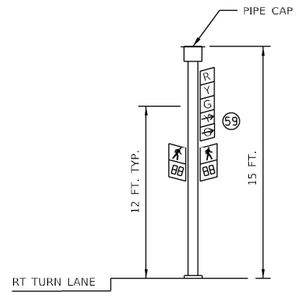
MA-11 48'

SOUTHBOUND TRAFFIC SIGNAL
ARMOUR ROAD AND LOCKE DRIVE



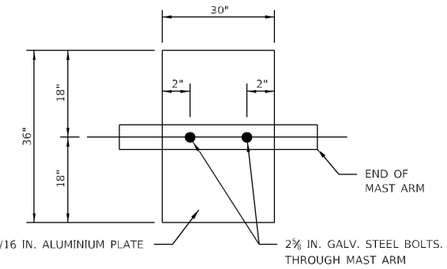
MA-12 64'

WESTBOUND TRAFFIC SIGNAL
ARMOUR ROAD AND LOCKE DRIVE



TSP-5

SOUTHEAST QUADRANT
ARMOUR ROAD AND LOCKE DRIVE



DAMPENING PLATE DETAIL

(TOP VIEW) INCIDENTAL TO MAST ARM QUANTITY

NOT TO SCALE

NOTE: DAMPENING DEVICE SHALL CONSIST OF A 30" X 36" TYPE 1 UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. THE COST OF THE DAMPENING DEVICE IS INCLUDED IN THE COST OF THE MAST ARM PAY ITEM.

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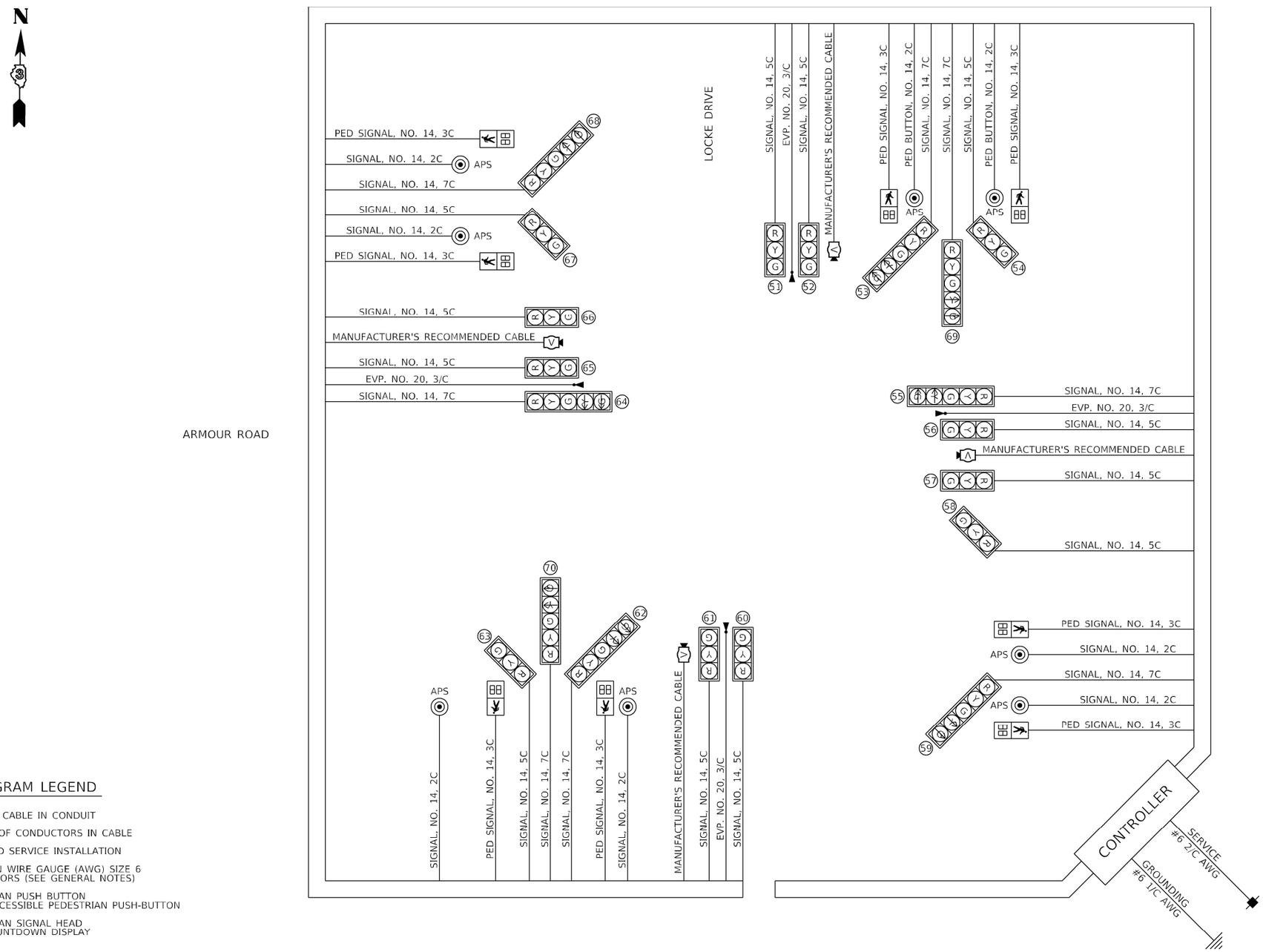
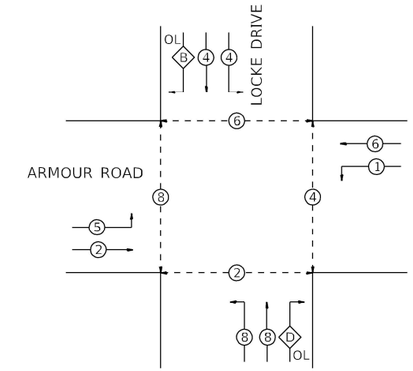
PROFESSIONAL DESIGN FIRM — LICENSE NO.
Illinois Professional Design Firm: Professional Engineering Group — 184.007753 — 20-1000185

USER NAME = rjo		DESIGNED - LDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MAST ARM AND SIGNAL POST DETAILS LOCKE DRIVE
		DRAWN - RJO	REVISED -		
PLOT SCALE = 2.0000 ' / in.		CHECKED - LDC	REVISED -		SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.
PLOT DATE = 5/19/2022		DATE - 10/2020	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	276
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		





PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PROTECTED PHASE
B	=	5
D	=	1

LEGEND

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

CABLE DIAGRAM LEGEND

- ELECTRIC CABLE IN CONDUIT
- 5/C — NUMBER OF CONDUCTORS IN CABLE
- PROPOSED SERVICE INSTALLATION
- NO. 6 — AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)
- PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH-BUTTON
- PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN DISPLAY
- EMERGENGY VEHICLE PREEMPTION DETECTOR AND BEACON
- PROPOSED TRAFFIC SIGNAL VIDEO DETECTOR SYSTEM
- GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM. OR (S) SERVICE

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Kaskaskia Engineering Group, LLC
200 E. Main St., Suite 100
Belleville, Illinois 62220
618.233.5077 phone
618.233.5077 fax
www.kaskaskiaeng.com
PROFESSIONAL REGISTRATIONS: Illinois Professional Design Firm, Professional Engineering Group
LICENSE NO.: 184.005775, 20-5000185

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PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 2/3/2022	DATE - 10/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ARMOUR ROAD AND LOCKE DRIVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	277

CONTRACT NO. 66957

ILLINOIS | FED. AID PROJECT

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
AFG	ABOVE FINISHED GRADE
B/H	BEHIND
CKT	CIRCUIT
CM	CENTIMETER
CNC	COILABLE NONMETALLIC CONDUIT
CT	CURRENT TRANSFORMER
CP	CONTROL PANEL
DIA.	DIAMETER
E	EXISTING UNIT TO REMAIN
ECA	ELECTRIC CABLE ASSEMBLY
FT	FEET OR FOOT
FOC	FACE OF CURB
FOS	FACE OF SIDEWALK
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HMLT	HIGH MAST LIGHT TOWER
HPS	HIGH PRESSURE SODIUM
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
LED	LIGHT EMITTING DIODE
M	METER
M.A.	MAST ARM
M.H.	MOUNTING HEIGHT
NO. #	NUMBER
PVC	POLYVINYL CHLORIDE
RGC	RIGID GALVANIZED STEEL CONDUIT
STA	STATION
T	TEMPORARY LIGHTING UNIT
TB	TRANSFORMER BASE
TMP	TEMPORARY
UD	UNIT DUCT
WP	WOOD POLE
XFMR	TRANSFORMER

S.P. COLUMN

*	SPECIAL PROVISION
BDE	IDOT BDE SPECIAL PROVISION

HIGHWAY STANDARDS

814001-03	HANDHOLES
821101-02	LUMINAIRE WIRING IN POLE
825011-04	LIGHTING CONTROLLER PEDESTAL MOUNTED, 240V
830006-05	LIGHT POLE ALUMINUM DAVIT ARM
830026-01	TEMPORARY ROADWAY LIGHTING
836001-04	LIGHT POLE FOUNDATION
838001-01	BREAKAWAY DEVICES

INDEX OF SHEETS

1	LIGHTING QUANTITIES, NOTES AND ABBREVIATIONS
2 TO 6	TEMPORARY AND REMOVAL LIGHTING PLANS ARMOUR ROAD
7 TO 10	TEMPORARY AND REMOVAL LIGHTING PLANS ILLINOIS ROUTE 50
11 TO 15	LIGHTING PLANS ARMOUR ROAD
16 TO 19	LIGHTING PLANS ILLINOIS ROUTE 50
20	LIGHT POLE FOUNDATION OFFSET
21	COMBINATION LIGHTING CONTROLLER
22	WIRING DIAGRAMS
23	LUMINAIRE PERFORMANCE TABLES

LIGHTING SUMMARY OF QUANTITIES

S.P.	PAY ITEM	DESCRIPTION	UNIT	TOWNSHIP QUANTITY	VILLAGE QUANTITY	COUNTY QUANTITY
BDE	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1	
	81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	260	560	105
	81400710	HEAVY-DUTY HANDHOLE, PORTLAND CEMENT CONCRETE	EACH		1	
	81603000	UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	1,290	3,015	1,165
	81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	855	1,260	960
BDE	82110007	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	7		5
BDE	82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	2	18	2
	82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1		
	82500335	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 100AMP	EACH		1	
	83001300	LIGHT POLE, ALUMINUM, 35 FT. M.H., 8 FT. DAVIT ARM	EACH	7	9	5
	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	33.0	71.5	5.5
	83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	28	56	20
	84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	2	5	
	84200804	REMOVAL OF POLE FOUNDATION	EACH	2	10	
	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH		5	
	84500110	REMOVAL OF LIGHTING CONTROLLER	EACH		1	
	84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH		1	
	84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH		1	
	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,905	6,765	
*	X1400267	REMOVAL OF LIGHTING LUMINAIRE, NO SALVAGE	EACH		7	
*	X8250091	COMBINATION LIGHTING CONTROLLER	EACH	1	1	1
*	X8360215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	9.5	9.5	38.0
*	X8410102	TEMPORARY LIGHTING SYSTEM	L SUM		1	

NOTES:

1. ELECTRIC CABLES IN EXISTING CONDUIT TO BE ABANDONED SHALL BE REMOVED AND PAID FOR AS "REMOVE ELECTRIC CABLE FROM CONDUIT" (89502300).
2. THE CONTRACTOR SHALL SET CENTER OF LIGHT POLE FOUNDATION 3'-0" BEHIND FACE OF CURB, UNLESS NOTED OTHERWISE.
3. THE CONTRACTOR SHALL INSTALL LIGHT POLE ON AN OFFSET CONCRETE FOUNDATION TO AVOID CONFLICT WITH UNDERGROUND DRAINAGE/UTILITITES, AS NOTED ON THE PLANS. THE OFFSET FOUNDATION SHALL BE PAID FOR AS "LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET" (X8360215). THE LIGHT POLE SETBACK FOR POLES UTILIZING AN OFFSET CONCRETE FOUNDATION ARE MEASURED TO CENTER OF LIGHT POLE.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING LIGHT POLES CONNECTED TO THE EXISTING LIGHTING CONTROLLER AT ILLINOIS ROUTE 50 & ARMOUR ROAD THAT ARE NOT CURRENTLY SHOWN ON THE PLANS AND CONNECT THEM TO THE PROPOSED LIGHTING CONTROLLER AT ILLINOIS ROUTE 50 & ARMOUR ROAD. THE CONTRACTOR SHALL RETROFIT THE ASSOCIATED LUMINAIRES ALONG ILLINOIS ROUTE 50 TO LED. THIS WORK SHALL BE INCLUDED IN THE COST OF "REMOVAL OF LIGHTING LUMINAIRE, NO SALVAGE" (X1400267) FOR REMOVAL OF EXISTING LUMINAIRE AND "LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H" (82110008) FOR INSTALLATION OF A NEW LUMINAIRE ALONG ILLINOIS ROUTE 50.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EXISTING, TEMPORARY, AND PROPOSED LIGHTING SYSTEMS UNTIL IDOT HAS TAKEN ACCEPTANCE OF THE FINAL SYSTEM. ALL EXISTING CIRCUITS AND CABLES TO THE LIGHT POLES SHALL BE MAINTAINED, AS NEEDED. THIS WORK SHALL BE INCLUDED IN THE COST OF "TEMPORARY LIGHTING SYSTEM" (X8410102).
6. ROUTE COMBINATION ROADWAY LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT (SEE TRAFFIC SIGNAL PLANS). ELECTRIC CABLE FOR ROADWAY LIGHTING CIRCUITS SHALL RUN CONTINUOUS WITHOUT ANY UNDERGROUND SPLICES. SPLICING OF ELECTRIC CABLE WILL BE PERMITTED ONLY IN THE POLE HANDHOLE.
7. COMBINATION ROADWAY LUMINAIRES SHALL BE POWERED FROM THE COMBINATION LIGHTING CONTROLLER.
8. TEMPORARY WOOD POLES SHALL BE INSTALLED OUTSIDE THE CLEARZONE.

STAGE 1:

S1N1. INSTALL AND ACTIVATE PROPOSED LIGHTING CONTROLLER AT ILLINOIS ROUTE 50 & ARMOUR ROAD.

S1N2. THE EXISTING LIGHTING CONTROLLER SHALL REMAIN IN OPERATION UNTIL STAGE 6.

S1N3. INTERCEPT EXISTING CONDUIT AT EXISTING LIGHTING CONTROLLER WITH NEW UNIT DUCT. CONNECT TO RELOCATED LIGHT POLE "A5".

STAGE 2:

S2N1. CONNECT EXISTING LIGHT POLE TO PROPOSED LIGHT POLE "B6" VIA UNIT DUCT.

STAGE 4:

S4N1. INSTALL TEMPORARY CABLE AND WOOD POLES, AS SHOWN ON THE PLANS. CONNECT UNIT DUCT TO PROPOSED LIGHT POLE "D1".

STAGE 6:

S6N1. INSTALL TEMPORARY CABLE AND WOOD POLES, AS SHOWN ON THE PLANS. CONNECT UNIT DUCT TO PROPOSED LIGHT POLES "B1", "C1", AND "C2".

CALLOUT KEY

STAGING NOTE DESIGNATION:

S1 N1
- N1 — NOTE NUMBER
- S1 — CONSTRUCTION STAGE NUMBER

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TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

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	DRAWN - BKB	REVISED - XXX			
PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX		SCALE: NTS	SHEET 1 OF 22 SHEETS STA. N/A TO STA. N/A
PLOT DATE = 1/27/2022	DATE - 12/20	REVISED - XXX			

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	278
		CONTRACT NO. 66957		
	ILLINOIS FED. AID PROJECT			

N

0 20 40 60

SCALE IN FEET

NO LIGHTING WORK ON THIS SHEET

SURVEY ℄ ARMOUR ROAD

154 | 155+00 | 156 | 157 | 158 | 159

EXISTING ROW LINE

EXISTING FENCE

3.41' DEEP
674.05

MATCH LINE STA. 160+00 SEE SHEET 3

MODEL: 27g_PLOT
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411 South Wells Street Suite 1000
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	DRAWN - BKB	REVISED - XXX
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PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLANS ARMOUR ROAD

SCALE: 1" = 20' | SHEET 2 OF 23 SHEETS | STA. 154+00.00 TO STA. 160+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	279
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		

N

0 20 40 60

SCALE IN FEET

EXISTING ROW LINE

℄ ARTHUR BURCH DR

211

BOURBONNAIS TOWNSHIP VILLAGE OF BRADLEY

EXISTING ROW LINE

R

MATCH LINE STA. 160+00 SEE SHEET 2

160+00 161 210+00 162 163 164 165+00

SURVEY ℄ ARMOUR ROAD

A

A

R

MATCH LINE STA. 166+00 SEE SHEET 4

EXISTING ROW LINE

EXISTING COM ED BURIED ELECTRIC LINE

209

SEE SHEET 9

℄ PHARMACEUTICAL DR

208

LEGEND

R	EXISTING GROUND MOUNTED LIGHTING UNIT TO BE REMOVED
RL	EXISTING GROUND MOUNTED LIGHTING UNIT TO BE RELOCATED REMOVE LUMINAIRE AND FOUNDATION
RT	EXISTING GROUND MOUNTED LIGHTING UNIT TO REMAIN REMOVE LUMINAIRE
	EXISTING GROUND MOUNTED LIGHTING UNIT TO REMAIN
R	EXISTING LIGHTING CONTROLLER TO BE REMOVED
R	EXISTING ELECTRIC SERVICE TO BE REMOVED
	TEMPORARY WOOD POLE, 50 FOOT, CLASS 3
	TEMPORARY AERIAL CABLE, 2-1C NO.8 WITH MESSENGER WIRE
	TEMPORARY UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE

MODEL: 279_PLOT01
FILE NAME: P:\20-1148.11 Armour Road\Received from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-Sht-RemLight Armour Rd.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = rjo	DESIGNED - BKB	REVISED - XXX	
	DRAWN - BKB	REVISED - XXX	
PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX	
PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLANS ARMOUR ROAD

SCALE: 1" = 20' | SHEET 3 OF 23 SHEETS | STA. 160+00.00 TO STA. 166+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	280
		CONTRACT NO. 66957		
	ILLINOIS FED. AID PROJECT			

N

0 20 40 60

SCALE IN FEET

VILLAGE OF BRADLEY COUNTY

SEE SHEET 9

SURVEY ℄ FAP 840 (ILLINOIS ROUTE 50)

1291

1290+00

1289

1288

EXISTING COM ED BURIED ELRCTRIC LINE

EXISTING 12" SANITARY SEWER

EXISTING ROW LINE

SURVEY ℄ ARMOUR ROAD

166 167 168 169 170+00 171

MATCH LINE STA. 166+00 SEE SHEET 3

MATCH LINE STA. 172+00 SEE SHEET 5

EXISTING ROW LINE

EXISTING ROW LINE

EXISTING 2" GAS MAIN

EXISTING COM ED BRIED ELECTRIC LINE

LEGEND

R	EXISTING GROUND MOUNTED LIGHTING UNIT TO BE REMOVED
RL	EXISTING GROUND MOUNTED LIGHTING UNIT TO BE RELOCATED REMOVE LUMINAIRE AND FOUNDATION
RT	EXISTING GROUND MOUNTED LIGHTING UNIT TO REMAIN REMOVE LUMINAIRE
	EXISTING GROUND MOUNTED LIGHTING UNIT TO REMAIN
R	EXISTING LIGHTING CONTROLLER TO BE REMOVED
R	EXISTING ELECTRIC SERVICE TO BE REMOVED
	TEMPORARY WOOD POLE, 50 FOOT, CLASS 3
	TEMPORARY AERIAL CABLE, 2-1C NO.8 WITH MESSENGER WIRE
	TEMPORARY UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE

MODEL: 280_PLOT02
FILE NAME: P:\20-148-11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\036697-Sht-Remlight Armour Rd.dgn

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Chicago, Illinois 60607

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	DRAWN - BKB	REVISED - XXX
PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX
PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLANS ARMOUR ROAD

SCALE: 1" = 20' | SHEET 4 OF 23 SHEETS | STA. 166+00.00 TO STA. 172+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	281
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	

N

0 20 40 60

SCALE IN FEET

NO LIGHTING WORK ON THIS SHEET

EXISTING UTILITY MAST ARM AND LUMINAIRE TO BE REMOVED (BY OTHERS)

EXISTING ROW LINE

EXISTING COMBINATION LIGHTING UNIT TO REMAIN

172+56.11 ℄ LOCKE DRIVE

311

172

173

174

175+00

176

177

SURVEY ℄ ARMOUR ROAD

MATCH LINE STA. 172+00 SEE SHEET 4

MATCH LINE STA. 178+00 SEE SHEET 6

EXISTING ROW LINE

309

172+56.11 ℄ MALL ENTRANCE

178+00.40 ℄ CHRISTINE DRIVE

MODEL: 281_PLOT03
FILE NAME: P:\20-1148.11 Armour Road\Received from\CADD\Highway\CADD Sheets\CADD Sheets\D3E6937-Sht-RemLight Armour Rd.dgn

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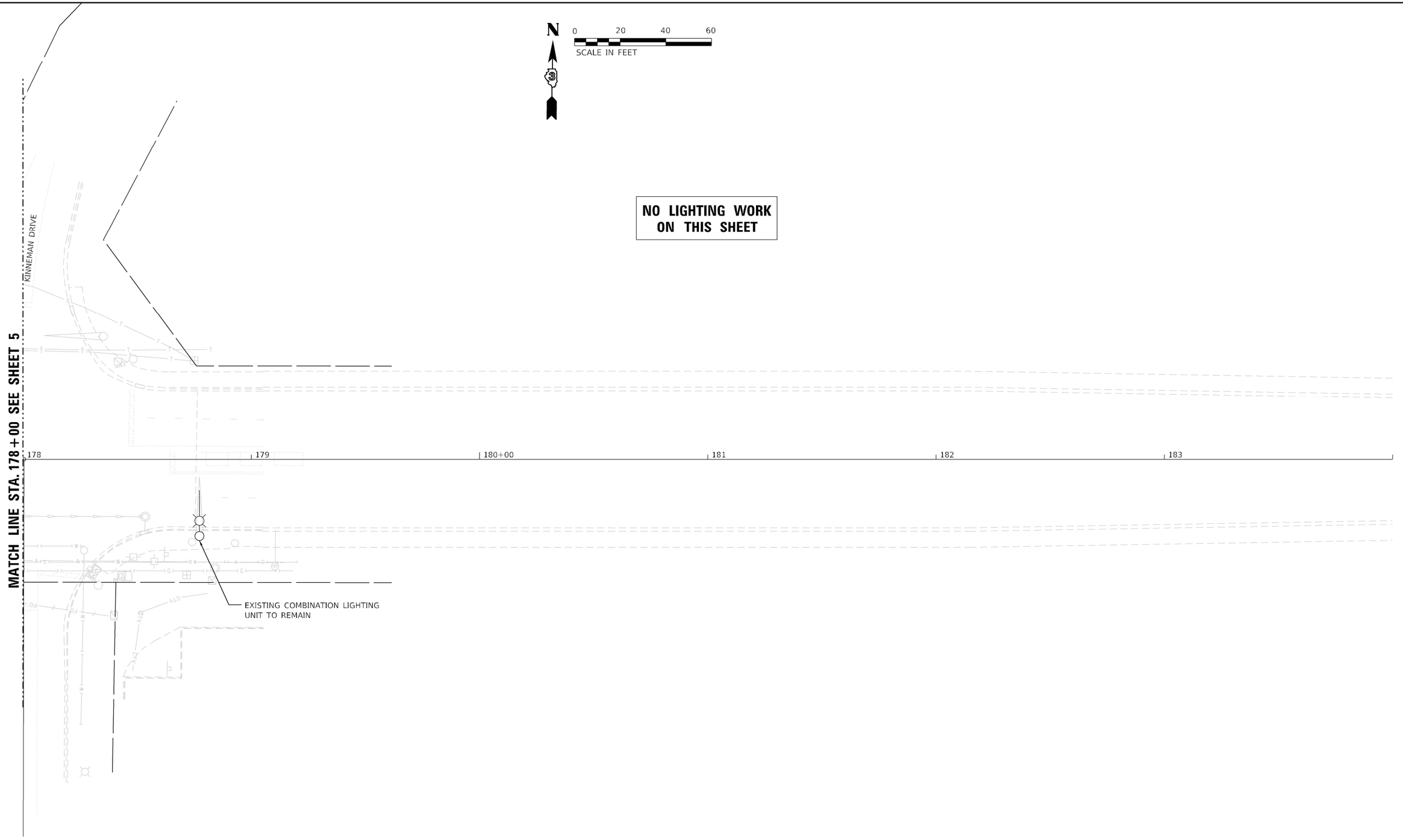
	DRAWN - BKB	REVISED - XXX
PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX
PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLANS ARMOUR ROAD

SCALE: 1" = 20' | SHEET 5 OF 23 SHEETS | STA. 172+00.00 TO STA. 178+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	282
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		



MODEL: 282_PLOT04
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USER NAME = rjo	DESIGNED - BKB	REVISED - XXX
	DRAWN - BKB	REVISED - XXX
PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX
PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLANS ARMOUR ROAD

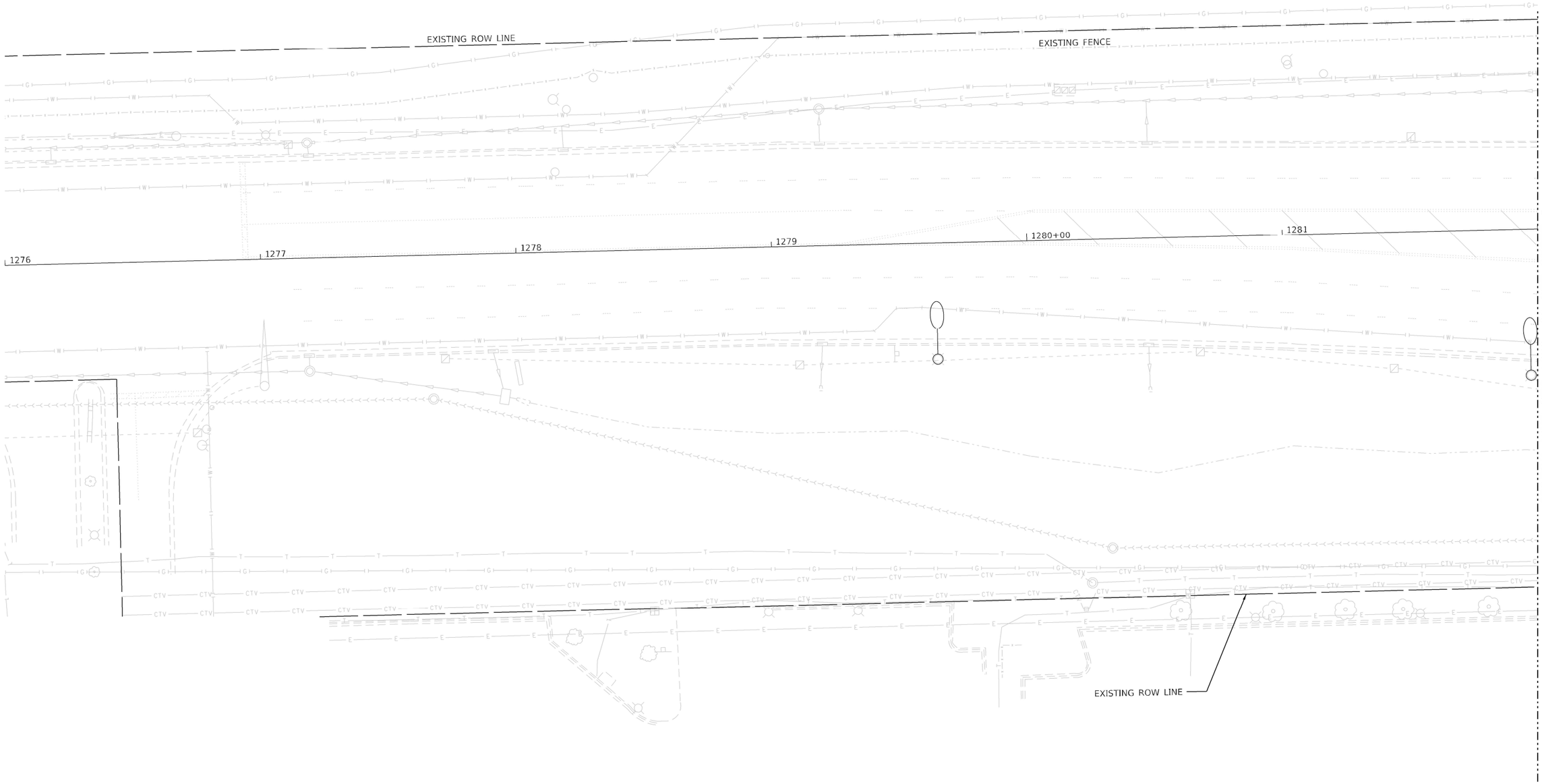
SCALE: 1" = 20' | SHEET 6 OF 23 SHEETS | STA. 178+00.00 TO STA. 184+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	283
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	

0 20 40 60
SCALE IN FEET

N

NO LIGHTING WORK ON THIS SHEET



MODEL: 283_PLOT
FILE NAME: P:\20-1148.11 Armour Road\Received from\CADD\Highway\CADD Sheets\CADD Sheets\D3366937-Sht-RomLight IL50.dgn

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	DRAWN - BKB	REVISED - XXX
PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX
PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLANS ILLINOIS ROUTE 50

SCALE: 1" = 20' | SHEET 7 OF 23 SHEETS | STA. 1276+00.00 | TO STA. 1282+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	284
		CONTRACT NO. 66957		
	ILLINOIS FED. AID PROJECT			

0 20 40 60
SCALE IN FEET

N

EXISTING ROW LINE

EXISTING FENCE

MATCH LINE STA. 1282+00 SEE SHEET 7

RT

RT

SURVEY ℄ FAP 840 (ILLINOIS ROUTE 50)

1282 1283 1284 1285+00 1286 1287

RL

RL

RELOCATED LIGHT POLE "A5"
SEE SHEET 17, SEE NOTE S1N3

MATCH LINE STA. 1288+00 SEE SHEET 9

EXISTING ROW LINE

LEGEND

R	EXISTING GROUND MOUNTED LIGHTING UNIT TO BE REMOVED
RL	EXISTING GROUND MOUNTED LIGHTING UNIT TO BE RELOCATED REMOVE LUMINAIRE AND FOUNDATION
RT	EXISTING GROUND MOUNTED LIGHTING UNIT TO REMAIN REMOVE LUMINAIRE
	EXISTING GROUND MOUNTED LIGHTING UNIT TO REMAIN
R	EXISTING LIGHTING CONTROLLER TO BE REMOVED
R	EXISTING ELECTRIC SERVICE TO BE REMOVED
	TEMPORARY WOOD POLE, 50 FOOT, CLASS 3
	TEMPORARY AERIAL CABLE, 2-1C NO.8 WITH MESSENGER WIRE
	TEMPORARY UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE

MODEL: 28x_PLOT01
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D3166937-Sht-RomLight IL50.dgn

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Chicago, Illinois 60607

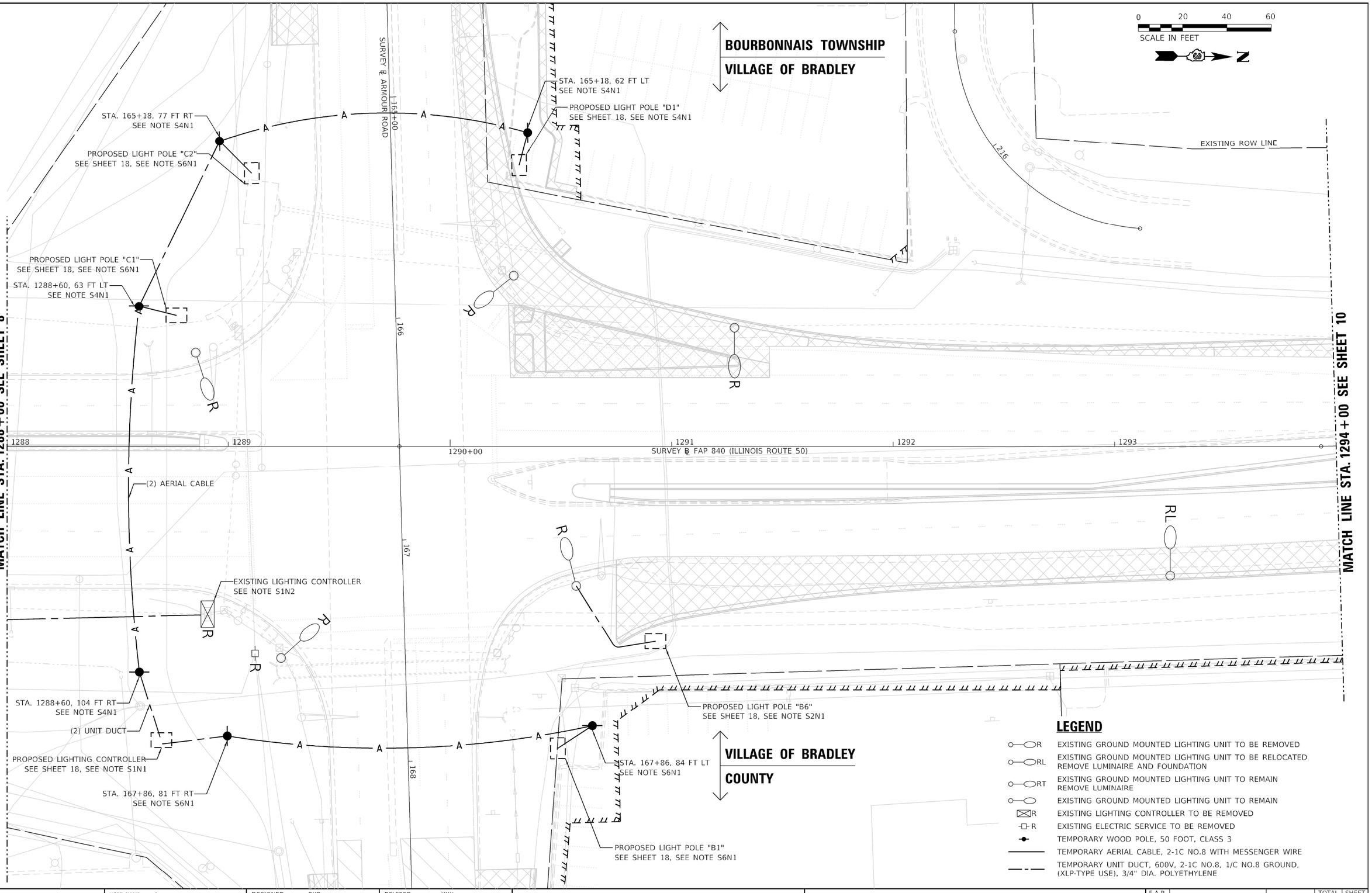
USER NAME = rjo		DESIGNED - BKB		REVISED - XXX	
		DRAWN - BKB		REVISED - XXX	
PLOT SCALE = 0.1667 ' / in.		CHECKED - MKR		REVISED - XXX	
PLOT DATE = 1/27/2022		DATE - 12/2020		REVISED - XXX	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLANS ILLINOIS ROUTE 50

SCALE: 1" = 20' | SHEET 8 OF 23 SHEETS | STA. 1282+00.00 TO STA. 1288+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	285
		CONTRACT NO. 66957		
	ILLINOIS FED. AID PROJECT			



MODEL: 28"x PLOT02
FILE NAME: P:\20-1148.11 Armour Road\Received from\CADD\Highway\CADD Sheets\CADD Sheets\D3166957-SN-RemLight 1L50.dgn

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Chicago, Illinois 60607

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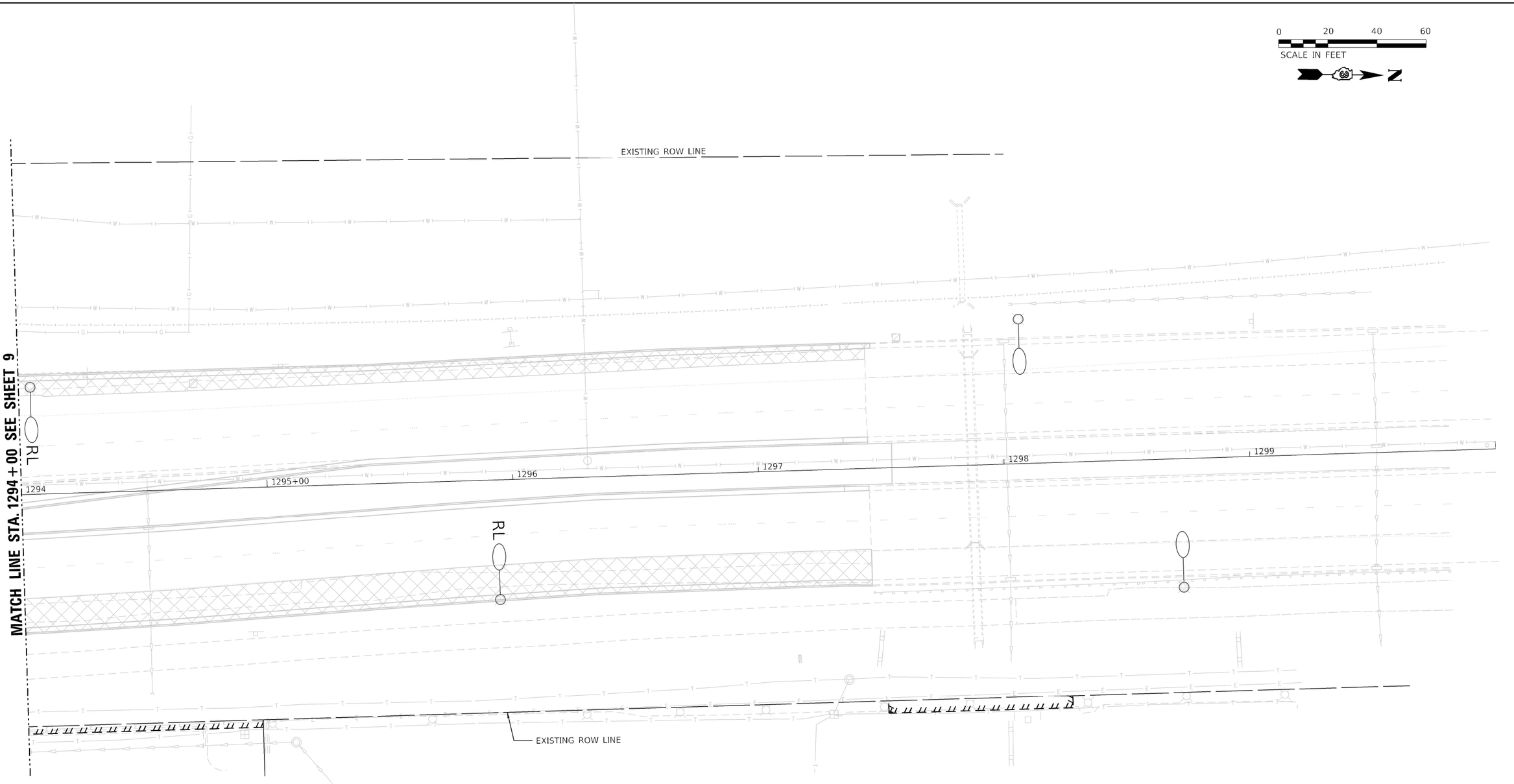
	DRAWN - BKB	REVISED - XXX
PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX
PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLANS ILLINOIS ROUTE 50

SCALE: 1" = 20' | SHEET 9 OF 23 SHEETS | STA. 1288+00.00 TO STA. 1294+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	286
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		



LEGEND

R	EXISTING GROUND MOUNTED LIGHTING UNIT TO BE REMOVED
RL	EXISTING GROUND MOUNTED LIGHTING UNIT TO BE RELOCATED REMOVE LUMINAIRE AND FOUNDATION
RT	EXISTING GROUND MOUNTED LIGHTING UNIT TO REMAIN REMOVE LUMINAIRE
	EXISTING GROUND MOUNTED LIGHTING UNIT TO REMAIN
R	EXISTING LIGHTING CONTROLLER TO BE REMOVED
R	EXISTING ELECTRIC SERVICE TO BE REMOVED
	TEMPORARY WOOD POLE, 50 FOOT, CLASS 3
	TEMPORARY AERIAL CABLE, 2-1C NO.8 WITH MESSENGER WIRE
	TEMPORARY UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE

MODEL: 286_PLOT03
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-Sht-Remlight IL50.dgn

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Chicago, Illinois 60607

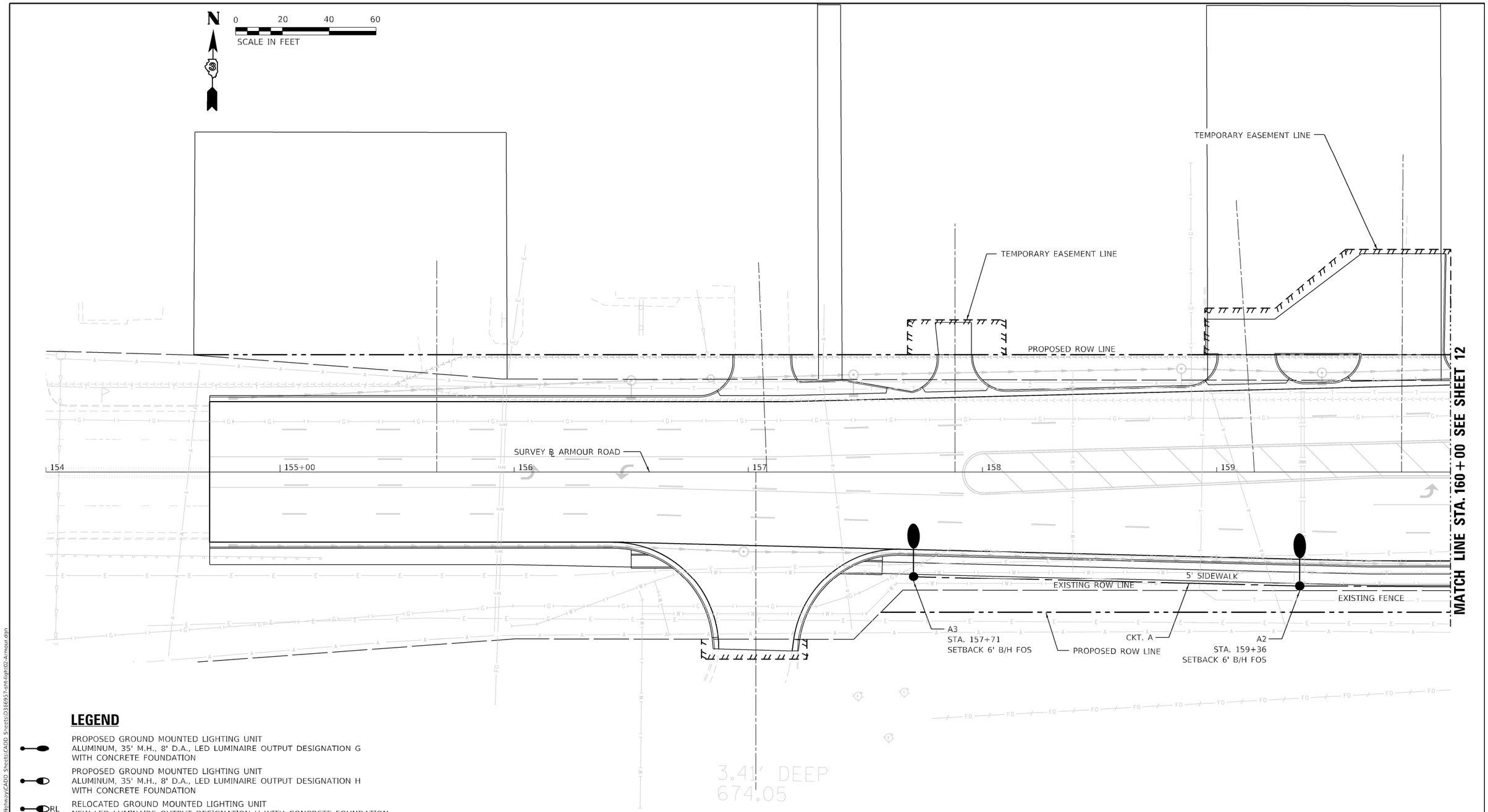
USER NAME = rjo	DESIGNED - BKB	REVISED - XXX	
	DRAWN - BKB	REVISED - XXX	
PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX	
PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND REMOVAL LIGHTING PLANS ILLINOIS ROUTE 50

SCALE: 1" = 20' | SHEET 10 OF 23 SHEETS | STA. 1294+00.00 TO STA. 1300+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	287
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	



LEGEND

- PROPOSED GROUND MOUNTED LIGHTING UNIT ALUMINUM, 35' M.H., 8' D.A., LED LUMINAIRE OUTPUT DESIGNATION G WITH CONCRETE FOUNDATION
- PROPOSED GROUND MOUNTED LIGHTING UNIT ALUMINUM, 35' M.H., 8' D.A., LED LUMINAIRE OUTPUT DESIGNATION H WITH CONCRETE FOUNDATION
- RL — RELOCATED GROUND MOUNTED LIGHTING UNIT NEW LED LUMINAIRE OUTPUT DESIGNATION H WITH CONCRETE FOUNDATION
- RT — EXISTING GROUND MOUNTED LIGHTING UNIT TO REMAIN NEW LED LUMINAIRE OUTPUT DESIGNATION H
- PROPOSED COMBINATION LIGHTING UNIT (SEE TRAFFIC PLANS) 15' M.A., LED LUMINAIRE OUTPUT DESIGNATION H
- PROPOSED HEAVY-DUTY HANDHOLE
- PROPOSED UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- PROPOSED UNDERGROUND CONDUIT CASING, CNC, 2" DIA.
- EXISTING GROUND MOUNTED LIGHTING UNIT TO REMAIN

MODEL: 287_PLOT
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366957-sht-light02-Armour.dgn

TranSmart/EJM 411 South Wells Street Suite 1000 Chicago, Illinois 60607	USER NAME = rjo	DESIGNED - BKB	REVISED - XXX	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING PLANS ARMOUR ROAD
		DRAWN - BKB	REVISED - XXX		
	PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX		
	PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX		SCALE: 1" = 20' SHEET 11 OF 23 SHEETS STA. 154+00.00 TO STA. 160+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	288
		CONTRACT NO. 66957		
		ILLINOIS FED. AID PROJECT		

N

0 20 40 60

SCALE IN FEET

MATCH LINE STA. 160+00 SEE SHEET 11

MATCH LINE STA. 166+00 SEE SHEET 13

BOURBONNAIS TOWNSHIP VILLAGE OF BRADLEY

B1
STA. 211+61
SETBACK 6' B/H FOC

EXISTING ROW LINE

℄ ARTHUR BURCH DR

211

A1

TEMPORARY EASEMENT LINE

PROPOSED ROW LINE

2"-60'

CKT. B

B2
STA. 162+28

EXISTING ROW LINE

TEMPORARY EASEMENT LINE

2"-40'

TEMPORARY EASEMENT LINE

B3
STA. 163+78

PROPOSED ROW LINE

2"-100'

210+00

160+00 161 162 163 164 165+00

SURVEY ℄ ARMOUR ROAD

CKT. A

A1
STA. 161+00
SETBACK 6' B/H FOS

CKT. B

5' SIDEWALK

PROPOSED ROW LINE

EXISTING ROW LINE

STA. 161+02, 58 FT RT
(2) 2-1/C NO. 10, 1/C NO. 10 GND

2"-60'
EXISTING COM ED BURIED ELECTRIC LINE

B1

CKT. A

TEMPORARY EASEMENT LINE

PROPOSED ROW LINE

A4
STA. 163+78
SEE NOTE 3
SETBACK 7' B/H FOS

5' SIDEWALK

209

℄ PHARMACEUTICAL DR

208

10' MULTI-USE PATH

LEGEND

- PROPOSED GROUND MOUNTED LIGHTING UNIT ALUMINUM, 35' M.H., 8' D.A., LED LUMINAIRE OUTPUT DESIGNATION G WITH CONCRETE FOUNDATION
- PROPOSED GROUND MOUNTED LIGHTING UNIT ALUMINUM, 35' M.H., 8' D.A., LED LUMINAIRE OUTPUT DESIGNATION H WITH CONCRETE FOUNDATION
- PROPOSED COMBINATION LIGHTING UNIT (SEE TRAFFIC PLANS) 15' M.A., LED LUMINAIRE OUTPUT DESIGNATION H
- PROPOSED LIGHTING CONTROLLER, PEDESTAL MOUNTED, 60 AMP, 120/240 VOLT, SINGLE PHASE, 3-WIRE
- PROPOSED ELECTRIC SERVICE INSTALLATION 60 AMP, 120/240 VOLT, SINGLE PHASE, 3-WIRE
- PROPOSED HEAVY-DUTY HANDHOLE
- PROPOSED UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- PROPOSED UNDERGROUND CONDUIT CASING, CNC, 2" DIA.
- ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-1/C NO. 10, 1/C NO. 10 GROUND (SEE NOTE 6)
- COMBINATION LIGHTING CONTROLLER (SEE TRAFFIC SIGNAL PLANS FOR LOCATION)
- TRAFFIC SIGNAL HANDHOLE (SEE TRAFFIC SIGNAL PLANS FOR LOCATION)

MODEL: 288_PLOT01
FILE NAME: P:\20-1148-11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D3669S7-sht-light02-Armour.dgn

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Chicago, Illinois 60607

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	DRAWN - BKB	REVISED - XXX	
PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX	
PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLANS ARMOUR ROAD

SCALE: 1" = 20' | SHEET 12 OF 23 SHEETS | STA. 160+00.00 TO STA. 166+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	289
		CONTRACT NO. 66957		
	ILLINOIS FED. AID PROJECT			

N

0 20 40 60

SCALE IN FEET

VILLAGE OF BRADLEY COUNTY

10' MULTI USE PATH

1291

SURVEY ℄ FAP 840 (ILLINOIS ROUTE 50)

EXISTING COM ED BURIED ELRCTRIC LINE

CKT. B

B2
STA. 169+90
SEE NOTE 3
SETBACK 3'

EXISTING 12" SANITARY SEWER

TEMPORARY EASEMENT LINE

EXISTING ROW LINE

TEMPORARY EASEMENT LINE

A2

MATCH LINE STA. 166+00 SEE SHEET 12

1290+00

SURVEY ℄ ARMOUR ROAD

166 167 168 169 170+00 171

MATCH LINE STA. 172+00 SEE SHEET 14

1289

CKT. A

EXISTING ROW LINE

7' SIDEWALK

A3
STA. 169+90
SEE NOTE 3
SETBACK 7' B/H FOS

EXISTING ROW LINE

TEMPORARY EASEMENT LINE

5' SIDEWALK

A4
STA. 171+85
SEE NOTE 3
SETBACK 7' B/H FOS

1288

EXISTING 2" GAS MAIN

EXISTING COM ED BRIED ELECTRIC LINE

LEGEND

- PROPOSED GROUND MOUNTED LIGHTING UNIT ALUMINUM, 35' M.H., 8' D.A., LED LUMINAIRE OUTPUT DESIGNATION G WITH CONCRETE FOUNDATION
- PROPOSED GROUND MOUNTED LIGHTING UNIT ALUMINUM, 35' M.H., 8' D.A., LED LUMINAIRE OUTPUT DESIGNATION H WITH CONCRETE FOUNDATION
- PROPOSED COMBINATION LIGHTING UNIT (SEE TRAFFIC PLANS) 15' M.A., LED LUMINAIRE OUTPUT DESIGNATION H
- PROPOSED LIGHTING CONTROLLER, PEDESTAL MOUNTED, 100 AMP, 120/240 VOLT, SINGLE PHASE, 3-WIRE
- PROPOSED ELECTRIC SERVICE INSTALLATION 100 AMP, 120/240 VOLT, SINGLE PHASE, 3-WIRE
- PROPOSED HEAVY-DUTY HANDHOLE
- PROPOSED UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- PROPOSED UNDERGROUND CONDUIT CASING, CNC, 2" DIA.
- ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-1/C NO. 10, 1/C NO. 10 GROUND (SEE NOTE 6)
- COMBINATION LIGHTING CONTROLLER (SEE TRAFFIC SIGNAL PLANS FOR LOCATION)
- TRAFFIC SIGNAL HANDHOLE (SEE TRAFFIC SIGNAL PLANS FOR LOCATION)

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411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = rjo	DESIGNED - BKB	REVISED - XXX
	DRAWN - BKB	REVISED - XXX
PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX
PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX

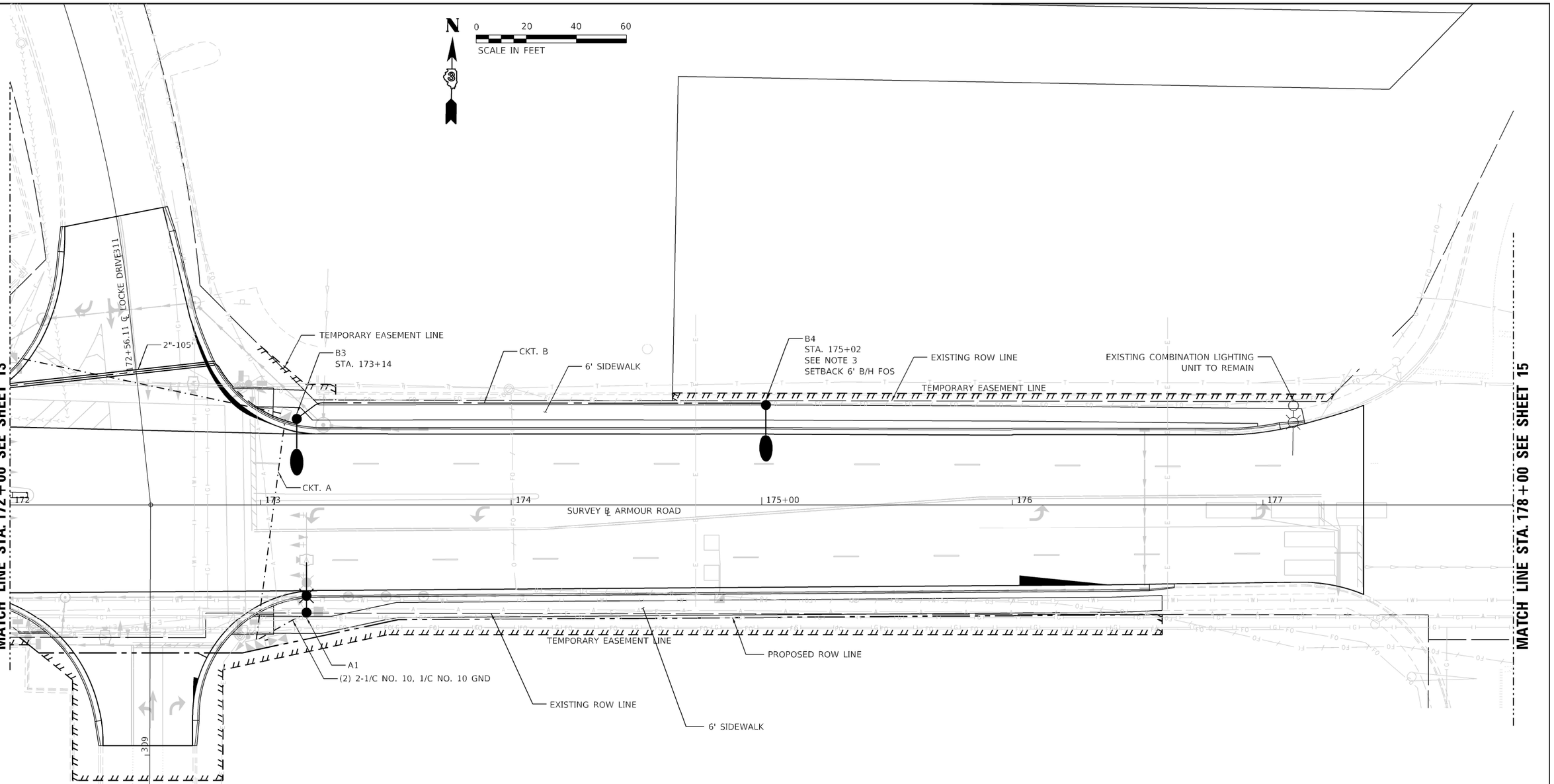
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLANS ARMOUR ROAD

SCALE: 1" = 20' | SHEET 13 OF 23 SHEETS | STA. 166+00.00 TO STA. 172+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	290
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		

MODEL: 289_PLOT02
FILE NAME: P:\20-148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D36693-sht-light-02-Armour.dgn



LEGEND

- PROPOSED GROUND MOUNTED LIGHTING UNIT ALUMINUM, 35' M.H., 8' D.A., LED LUMINAIRE OUTPUT DESIGNATION G WITH CONCRETE FOUNDATION
- PROPOSED COMBINATION LIGHTING UNIT (SEE TRAFFIC PLANS) 15' M.A., LED LUMINAIRE OUTPUT DESIGNATION H
- PROPOSED HEAVY-DUTY HANDHOLE
- PROPOSED UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- PROPOSED UNDERGROUND CONDUIT CASING, CNC, 2" DIA.
- ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-1/C NO. 10, 1/C NO. 10 GROUND (SEE NOTE 6)
- COMBINATION LIGHTING CONTROLLER (SEE TRAFFIC SIGNAL PLANS FOR LOCATION)
- TRAFFIC SIGNAL HANDHOLE (SEE TRAFFIC SIGNAL PLANS FOR LOCATION)
- EXISTING COMBINATION LIGHTING UNIT TO REMAIN

MODEL: 290_PLOT03
FILE NAME: P:\20-1148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D36937-sht-Light02-Armour.dgn

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411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = rjo	DESIGNED - BKB	REVISED - XXX
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PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX
PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLANS ARMOUR ROAD

SCALE: 1" = 20' | SHEET 14 OF 23 SHEETS | STA. 172+00.00 TO STA. 178+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	291
		CONTRACT NO. 66957		
	ILLINOIS FED. AID PROJECT			

N

0 20 40 60

SCALE IN FEET

NO LIGHTING WORK ON THIS SHEET

KINNEMAN DRIVE

178 | 179 | 180+00 | 181 | 182 | 183

MATCH LINE STA. 178+00 SEE SHEET 14

EXISTING COMBINATION LIGHTING UNIT TO REMAIN

MODEL: 291_PLOT04
FILE NAME: P:\20-148.11 Armour Road\Recieved from\CADD\Highway\CADD Sheets\CADD Sheets\D366937-sht-light02-Armour.dgn

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USER NAME = rjo	DESIGNED - BKB	REVISED - XXX	
	DRAWN - BKB	REVISED - XXX	
PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX	
PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLANS ARMOUR ROAD

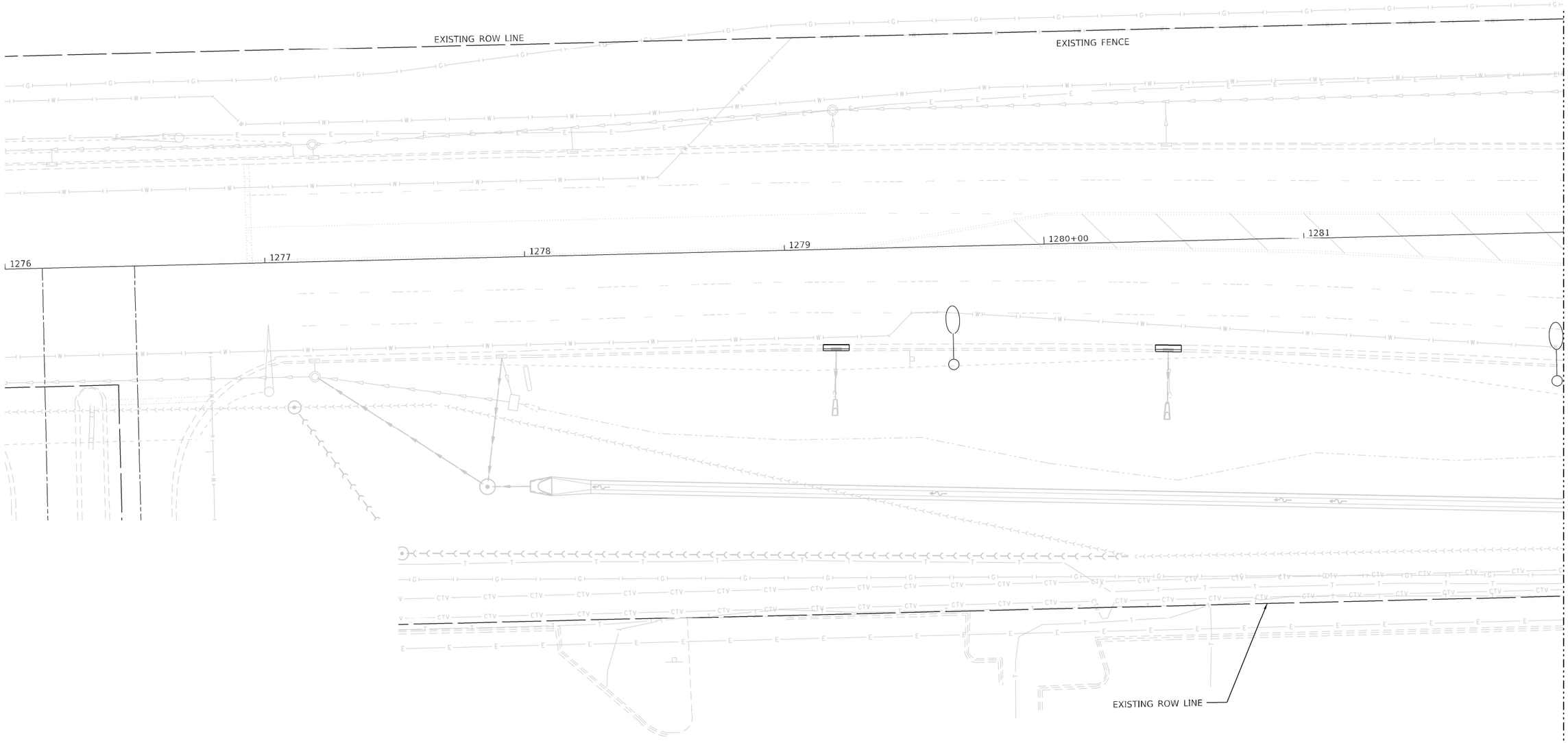
SCALE: 1" = 20' | SHEET 15 OF 23 SHEETS | STA. 178+00.00 TO STA. 184+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	292
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		

0 20 40 60
SCALE IN FEET

N

NO LIGHTING WORK ON THIS SHEET



MATCH LINE STA. 1282+00 SEE SHEET 17

MODEL: 292_PLOT
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	DRAWN - BKB	REVISED - XXX
PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX
PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLANS ILLINOIS ROUTE 50

SCALE: 1" = 20' | SHEET 16 OF 23 SHEETS | STA. 1276+00.00 TO STA. 1282+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	293
		CONTRACT NO. 66957		
		ILLINOIS	FED. AID PROJECT	

0 20 40 60
SCALE IN FEET

N

EXISTING ROW LINE

EXISTING FENCE

C4
STA. 1284+16

C3
STA. 1286+34

CKT. C

RT

RT

SURVEY ℄ FAP 840 (ILLINOIS ROUTE 50)

1282 1283 1284 1285+00 1286 1287

MATCH LINE STA. 1282+00 SEE SHEET 16

RL

RL

A6
STA. 1285+15
SETBACK 7' B/H FOS

CKT. A

A5
STA. 1287+59
SETBACK 7' B/H FOS

MATCH LINE STA. 1288+00 SEE SHEET 18

EXISTING ROW LINE

LEGEND

- PROPOSED GROUND MOUNTED LIGHTING UNIT
  ALUMINUM, 35' M.H., 8' D.A., LED LUMINAIRE OUTPUT DESIGNATION G
  WITH CONCRETE FOUNDATION
- PROPOSED GROUND MOUNTED LIGHTING UNIT
  ALUMINUM, 35' M.H., 8' D.A., LED LUMINAIRE OUTPUT DESIGNATION H
  WITH CONCRETE FOUNDATION
- RL RELOCATED GROUND MOUNTED LIGHTING UNIT
  NEW LED LUMINAIRE OUTPUT DESIGNATION H WITH CONCRETE FOUNDATION
- RT EXISTING GROUND MOUNTED LIGHTING UNIT TO REMAIN
  NEW LED LUMINAIRE OUTPUT DESIGNATION H
- PROPOSED COMBINATION LIGHTING UNIT (SEE TRAFFIC PLANS)
  15' M.A., LED LUMINAIRE OUTPUT DESIGNATION H
- PROPOSED HEAVY-DUTY HANDHOLE
- PROPOSED UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- PROPOSED UNDERGROUND CONDUIT CASING, CNC, 2" DIA.
- EXISTING GROUND MOUNTED LIGHTING UNIT TO REMAIN

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Chicago, Illinois 60607

USER NAME = rjo	DESIGNED - BKB	REVISED - XXX
	DRAWN - BKB	REVISED - XXX
PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX
PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLANS ILLINOIS ROUTE 50

SCALE: 1" = 20' | SHEET 17 OF 23 SHEETS | STA. 1282+00.00 TO STA. 1288+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	294
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		

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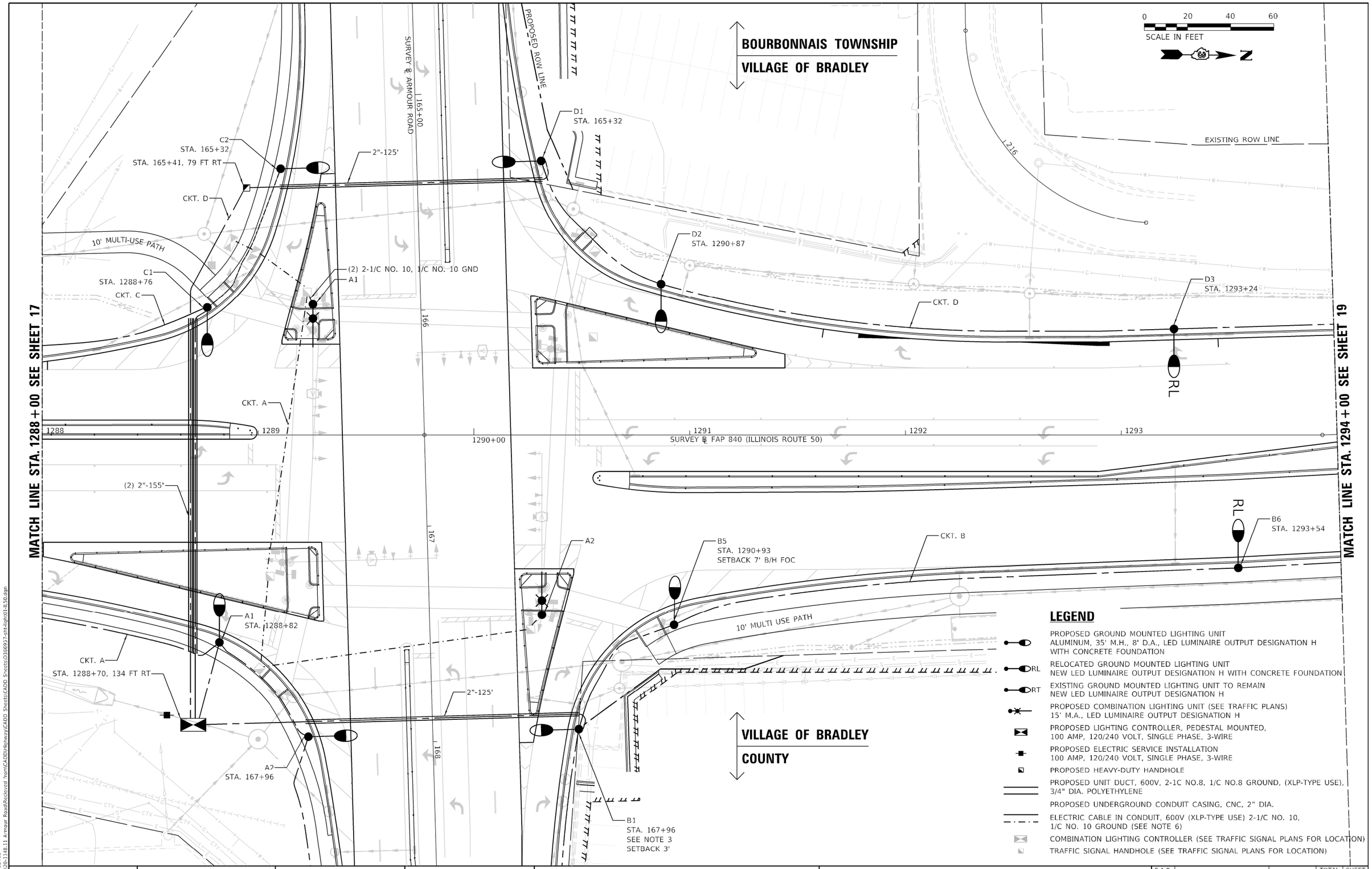

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Chicago, Illinois 60607

USER NAME = rjo	DESIGNED - BKB	REVISED - XXX	
	DRAWN - BKB	REVISED - XXX	
PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX	
PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLANS ILLINOIS ROUTE 50

SCALE: 1" = 20' | SHEET 18 OF 23 SHEETS | STA. 1288+00.00 TO STA. 1294+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	295

CONTRACT NO. 66957

ILLINOIS | FED. AID PROJECT

0 20 40 60
SCALE IN FEET

N

EXISTING ROW LINE

CKT. D

D4
STA. 1295+66

1294

1295+00

1296

1297

1298

1299

MATCH LINE STA. 1294+00 SEE SHEET 18

RL

B7
STA. 1296+12

CKT. B

EXISTING ROW LINE

LEGEND

- PROPOSED GROUND MOUNTED LIGHTING UNIT
  ALUMINUM, 35' M.H., 8' D.A., LED LUMINAIRE OUTPUT DESIGNATION G
  WITH CONCRETE FOUNDATION
- PROPOSED GROUND MOUNTED LIGHTING UNIT
  ALUMINUM, 35' M.H., 8' D.A., LED LUMINAIRE OUTPUT DESIGNATION H
  WITH CONCRETE FOUNDATION
- RL — RELOCATED GROUND MOUNTED LIGHTING UNIT
  NEW LED LUMINAIRE OUTPUT DESIGNATION H WITH CONCRETE FOUNDATION
- RT — EXISTING GROUND MOUNTED LIGHTING UNIT TO REMAIN
  NEW LED LUMINAIRE OUTPUT DESIGNATION H
- PROPOSED COMBINATION LIGHTING UNIT (SEE TRAFFIC PLANS)
  15' M.A., LED LUMINAIRE OUTPUT DESIGNATION H
- PROPOSED HEAVY-DUTY HANDHOLE
- PROPOSED UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
- PROPOSED UNDERGROUND CONDUIT CASING, CNC, 2" DIA.
- EXISTING GROUND MOUNTED LIGHTING UNIT TO REMAIN

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Chicago, Illinois 60607

USER NAME = rjo	DESIGNED - BKB	REVISED - XXX
	DRAWN - BKB	REVISED - XXX
PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX
PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLANS ILLINOIS ROUTE 50

SCALE: 1" = 20' | SHEET 19 OF 23 SHEETS | STA. 1294+00.00 TO STA. 1300+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	296
		CONTRACT NO. 66957		
	ILLINOIS FED. AID PROJECT			

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FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
			SINGLE ARM		TWIN ARM	
	SINGLE ARM D	TWIN ARM D	VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3.962 m)	15'-0" (4.572 m)	8-#6X12'-6" (3.810 m)	#3X122' (37.186 m)	8-#6X14'-3" (4.343 m)	#3X141' (42.977 m)
MEDIUM CLAY	9'-6" (2.896 m)	10'-9" (3.277 m)	8-#6X9'-0" (2.743 m)	#3X90' (27.432 m)	8-#6X10'-0" (3.048 m)	#3X100' (30.480 m)
STIFF CLAY	7'-0" (2.134 m)	8'-0" (2.438 m)	8-#6X6'-6" (1.981 m)	#3X66' (20.112 m)	8-#6X7'-6" (2.286 m)	#3X76' (23.165 m)
LOOSE SAND	9'-0" (2.743 m)	10'-0" (3.048 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)	8-#6X9'-6" (2.896 m)	#3X94' (28.651 m)
MEDIUM SAND	8'-3" (2.515 m)	9'-0" (2.743 m)	8-#6X8'-0" (2.438 m)	#3X78' (23,774 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
DENSE SAND	7'-9" (2.362 m)	9'-0" (2.743 m)	8-#6X7'-6" (2.286 m)	#3X73' (22.250 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1.524 m)	5'-0" (1.524 m)	NONE	NONE	NONE	NONE

BILL OF MATERIAL

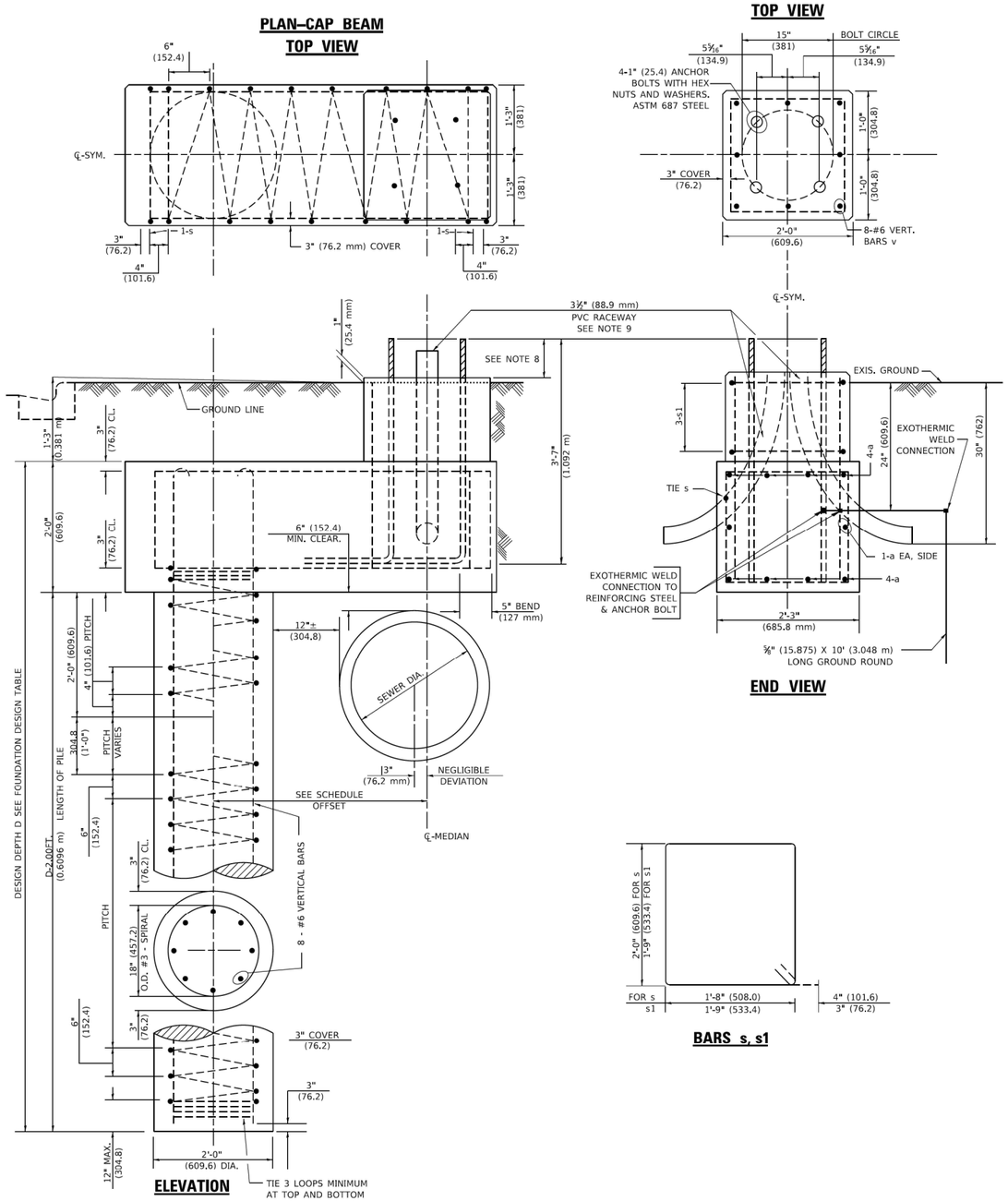
MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" (2.438 m)	▭
s_1	3	3	7'-6" (2.286 m)	▭
v_1	8	6	2'-9" (0.838 m)	—
v_2				

OFFSET SCHEDULE

SEWER DIAM. d IN.	PILE OFFSET from ℄-MED'N FT.	LENGTH of BAR a FT.
UP TO 24" (609.6 mm)	3'-3" (0.991 m)	#6 x 5'-3" (1.600 m)
27" (685.8 m)TO 36" (914.4 mm)	3'-9" (1.143 m)	5'-9" (1.753 m)
42" (1066.8 mm) TO 48" (1219.2 mm)	4'-6" (1.372 m)	6'-6" (1.981 m)
54" (1371.6 mm) TO 60" (1524.0 mm)	5'-0" (1.524 m)	7'-0" (2.134 m)
66" (1676.4 mm) TO 72" (1828.8 mm)	5'-6" (1.676 m)	7'-6" (2.286 m)

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
3. EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
4. 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.
5. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
6. 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.
7. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 23#4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
8. RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
9. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.



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		DRAWN -	REVISED -		
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -		
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BE310		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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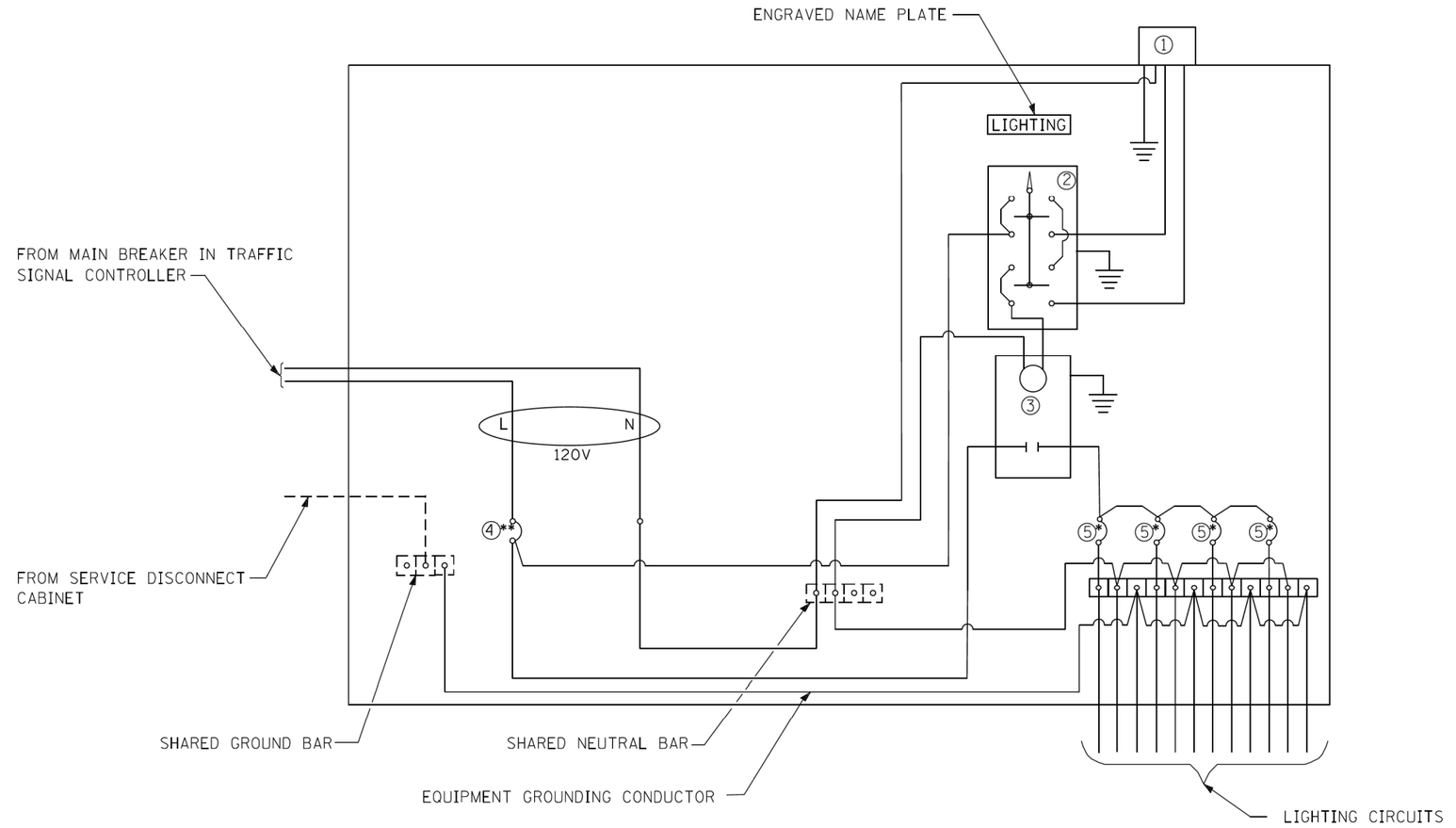
	USER NAME = rjo	DESIGNED - BKB	REVISED - XXX	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHT POLE FOUNDATION OFFSET
		DRAWN - BKB	REVISED - XXX		
	PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX		
	PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX		SCALE: NTS | SHEET 20 OF 23 SHEETS | STA. N/A | TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	297
		CONTRACT NO. 66957		
	ILLINOIS FED. AID PROJECT			



LEGEND

⏚ Ground connected to shared ground bar.

---- Indicates shared with traffic signal controller equipment.

① Photocell with integral surge arrester.
② HAND-OFF-AUTO selector switch.
③ 30 amp, 1 pole electrically held contactor.
④ 20 amp, 1 pole, circuit breaker
⑤ 15 amp, 1 pole, branch breaker

* Quantity of branch breakers shall depend on the combination lighting circuit diagram or as directed by the engineer.

** Size larger as needed.

COMBINATION LIGHTING CONTROLLER WIRING DIAGRAM

GENERAL NOTES

All control installation components shall be U.L. listed.

All wiring shall be neatly dressed, identified by tags, and supported.

The circuit breaker shall be clearly labeled for lighting according to Article 1068.01(f) of the Standard Specifications.

Install under eave photocell on traffic signal controller cabinet per Article 1068.01(e)(2) of the Standard Specifications.

All lighting equipment shall be installed on a side mounted insulated subpanel per Article 1068.01(e)(9) of the Standard Specifications on the lower right hand side of the traffic signal controller or as directed by the engineer.

Provide an engraved stainless steel nameplate on the sub panel reading "LIGHTING".

DATE	REVISIONS
10/13/14	NEW DETAIL
01/07/17	CHANGE MAIN CB TO 20A

COMBINATION LIGHTING CONTROLLER DETAIL

MODEL: 297_PLOT02
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	DRAWN - BKB	REVISED - XXX
PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX
PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMBINATION LIGHTING CONTROLLER

SCALE: NTS | SHEET 21 OF 23 SHEETS | STA. N/A | TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	298
		CONTRACT NO. 66957		
	ILLINOIS FED. AID PROJECT			

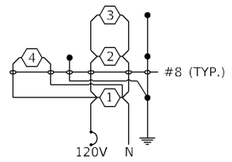
NOTES

1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

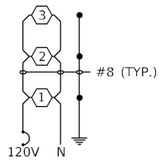
⬡ PROPOSED LED LUMINAIRE OUTPUT DESIGNATION G

◯ PROPOSED LED LUMINAIRE OUTPUT DESIGNATION H

⏚ GROUND ROD

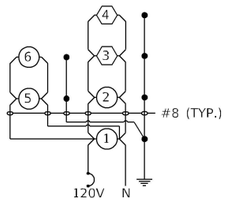


2 POLE 30 AMP BREAKER
CKT A

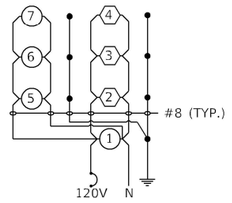


2 POLE 30 AMP BREAKER
CKT B

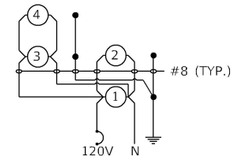
LIGHTING CONTROLLER
ARMOUR ROAD AT ARTHUR BURCH DRIVE
PEDESTAL MOUNT, 240V



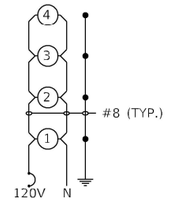
2 POLE 30 AMP BREAKER
CKT A



2 POLE 30 AMP BREAKER
CKT B

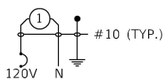


2 POLE 30 AMP BREAKER
CKT C

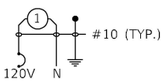


2 POLE 30 AMP BREAKER
CKT D

LIGHTING CONTROLLER
ILLINOIS ROUTE 50 AT ARMOUR ROAD
PEDESTAL MOUNT, 240V

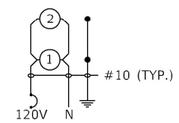


1 POLE 15 AMP BREAKER
CKT A



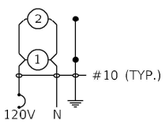
1 POLE 15 AMP BREAKER
CKT B

COMBINATION LIGHTING CONTROLLER
ARMOUR ROAD AT ARTHUR BURCH DRIVE



1 POLE 15 AMP BREAKER
CKT A

COMBINATION LIGHTING CONTROLLER
ILLINOIS ROUTE 50 AT ARMOUR ROAD



1 POLE 15 AMP BREAKER
CKT A

COMBINATION LIGHTING CONTROLLER
ARMOUR ROAD AT LOCKE DRIVE

MODEL: 298_PLOT03
FILE NAME: P120-148.11 Armour Road\Received from\CADD\Highway\CADD Sheets\CADD Sheets\D3606937-sht-light-03.dgn

TranSmart/EJM
411 South Wells Street Suite 1000
Chicago, Illinois 60607

USER NAME = rjo	DESIGNED - BKB	REVISED - XXX
	DRAWN - BKB	REVISED - XXX
PLOT SCALE = 0.1667 ' / in.	CHECKED - MKR	REVISED - XXX
PLOT DATE = 1/27/2022	DATE - 12/2020	REVISED - XXX

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIRING DIAGRAMS

SCALE: NTS | SHEET 22 OF 23 SHEETS | STA. N/A | TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	299
		CONTRACT NO. 66957		
		ILLINOIS FED. AID PROJECT		

Luminaire Performance Table

Project

Date	Contract Number	Section Number	County
02/01/20	66957	140 N	KANKAKEE

Marked Route Number	Municipality
FAP ROUTE 840 (IL ROUTE 50)	

Roadway

Lane Width	#of Lanes	Median Width	I.E.S Surface Classification	Q-Zero Value
12'	5	N/A	R3	0.07

Structure

Mounting Height	Arm Length	Set Back	Number of Luminaires (Highmast & Sign Lighting Only)
35'	8'	6'	N/A

Luminaire

Description	I.E.S. Transverse Distribution	I.E.S. Lateral Distribution
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	TYPE III	MEDIUM

Total Light Loss Factor (LLF)	BUG Rating	Shields	Dimming Protocol
0.7	U = 0	N/A	0-10V

Layout

Spacing (to Nearest 5 Ft)	Configuration (Opposite, Staggered, 1 Sided, or Median)
220'	TWO ROWS, STAGGERED

Performance

Average Illuminance, E_{AVE} (fc)	Uniformity Ratio, E_{AVE}/E_{MIN}
N/A	N/A

Average Luminance, L_{AVE}(cd/m^2)	Uniformity Ratio, L_{AVE}/L_{MIN}	Uniformity Ratio, L_{MAX}/L_{MIN}	Veiling Luminance Ratio, L_V/L_{MIN}
0.9	3.0	5.0	0.3

Light Tresspass

Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, E_H	Max. Vertical Illuminance at ROW, E_V
N/A	N/A	N/A

Notes

1. Set Back is from Edge of Pavement (white line) except for sign luminaires when it is vertical and horizontal distance from the sign to the luminaire.
2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to roadway.
3. Total Light Loss Factor (LLF) = the product of "Lumen Maintenance" (LLD) = 0.9, "Dirt Depreciation" (LDD) = 0.8, and "Equipment Factors" (EF) = 0.95.
4. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions above.
5. Lighting calculations shall be performed in one direction only.
6. Compliance with performance criteria shall be held to one significant digit.
7. Initial lumens of the proposed luminaire may vary from the values specified in the table given in Article 1067.06 of the BDE Special Provision Luminaire, LED.

Luminaire Performance Table

Project

Date	Contract Number	Section Number	County
02/01/20	66957	140 N	KANKAKEE

Marked Route Number	Municipality
FAP ROUTE 840 (IL ROUTE 50)	

Roadway

Lane Width	#of Lanes	Median Width	I.E.S Surface Classification	Q-Zero Value
12'	7	N/A	R3	0.07

Structure

Mounting Height	Arm Length	Set Back	Number of Luminaires (Highmast & Sign Lighting Only)
35'	8'	6'	N/A

Luminaire

Description	I.E.S. Transverse Distribution	I.E.S. Lateral Distribution
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	TYPE III	MEDIUM

Total Light Loss Factor (LLF)	BUG Rating	Shields	Dimming Protocol
0.7	U = 0	N/A	0-10V

Layout

Spacing (to Nearest 5 Ft)	Configuration (Opposite, Staggered, 1 Sided, or Median)
250'	TWO ROWS, STAGGERED

Performance

Average Illuminance, E_{AVE} (fc)	Uniformity Ratio, E_{AVE}/E_{MIN}
N/A	N/A

Average Luminance, L_{AVE}(cd/m^2)	Uniformity Ratio, L_{AVE}/L_{MIN}	Uniformity Ratio, L_{MAX}/L_{MIN}	Veiling Luminance Ratio, L_V/L_{MIN}
1.2	3.0	5.0	0.3

Light Tresspass

Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, E_H	Max. Vertical Illuminance at ROW, E_V
N/A	N/A	N/A

Notes

1. Set Back is from Edge of Pavement (white line) except for sign luminaires when it is vertical and horizontal distance from the sign to the luminaire.
2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to roadway.
3. Total Light Loss Factor (LLF) = the product of "Lumen Maintenance" (LLD) = 0.9, "Dirt Depreciation" (LDD) = 0.8, and "Equipment Factors" (EF) = 0.95.
4. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions above.
5. Lighting calculations shall be performed in one direction only.
6. Compliance with performance criteria shall be held to one significant digit.
7. Initial lumens of the proposed luminaire may vary from the values specified in the table given in Article 1067.06 of the BDE Special Provision Luminaire, LED.

MODEL: 299_PLOT04
FILE NAME: P:\20-148.11 Armour Road\Received from\CADD\Highway\CADD Sheets\CADD Sheets\D3669927-sht-light03.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUMINAIRE PERFORMANCE TABLES

SCALE: NTS | SHEET 23 OF 23 SHEETS | STA. N/A | TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	140N	KANKAKEE	430	300
		CONTRACT NO. 66957		
	ILLINOIS	FED. AID PROJECT		