

NOTES
 1. ALL LANDSCAPED AREAS SHALL INCLUDE 6" OF NEW TOPSOIL UNLESS OTHERWISE NOTED. THIS WORK SHALL BE PAID FOR AS TOPSOIL FURNISH AND PLACE, 6"
 2. FOR SLOPES STEEPER THAN 1:3, USE HEAVY DUTY EROSION CONTROL BLANKET.

PERMANENT EROSION CONTROL LEGEND

- SEEDING, CLASS 2A WITH EROSION CONTROL BLANKET
- SEEDING, CLASS 2A WITH HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING, CLASS 3 WITH HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING, CLASS 4A (MODIFIED) WITH EROSION CONTROL BLANKET
- SEEDING, CLASS 4B (MODIFIED) WITH EROSION CONTROL BLANKET
- STONE RIPRAP, CLASS A3
- WETLANDS
- SURFACE WATERS
- PROPOSED TREE
- PROPOSED SHRUB

ABBREVIATIONS OF COMMON NAMES

- SR (SMOOTH SUMAC)
- HM (COMMON HACKBERRY)
- SWO (SWAMP WHITE OAK)
- CO (CHINKAPIN OAK)
- CBC (COMMON BALD CYPRESS)
- SHS (STAGHORN SUMAC)
- GMSM (GREEN MOUNTAIN SUGAR MAPLE)
- EKC (EXPRESSO KENTUCKY COFFEETREE)
- DR (DAWN REDWOOD)
- CSPL (CHINA SNOW PEKING LILAC)
- WO (WHITE OAK)
- IW (IRONWOOD)

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SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

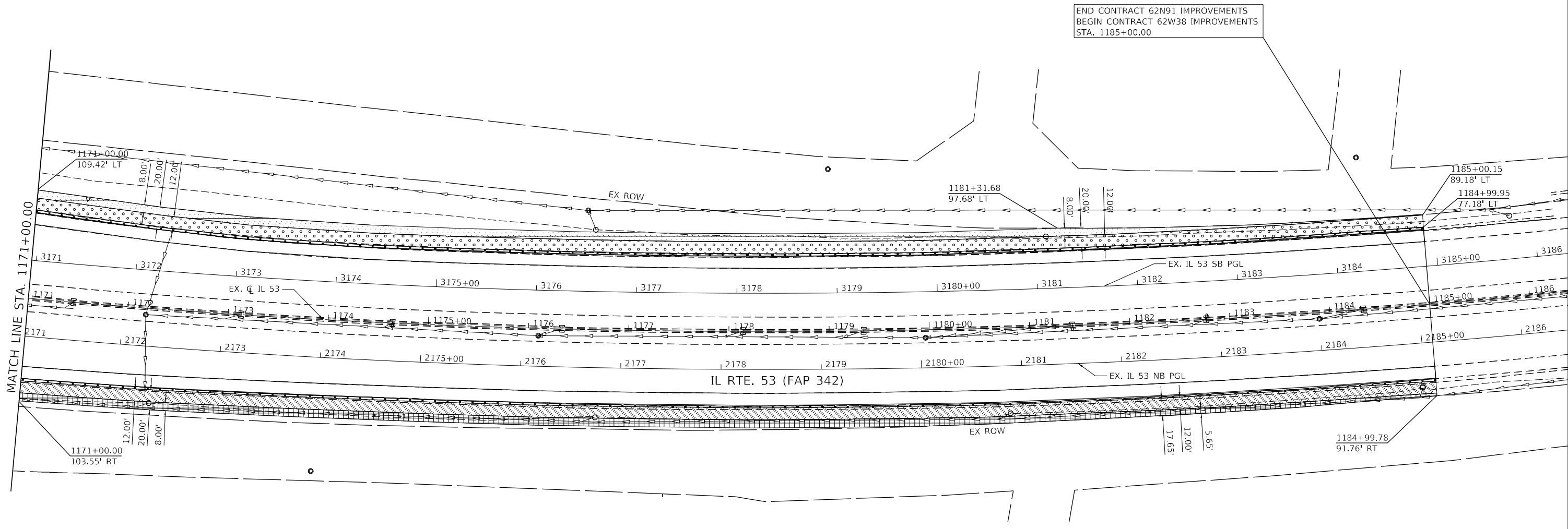
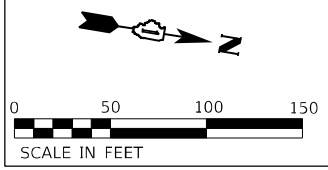
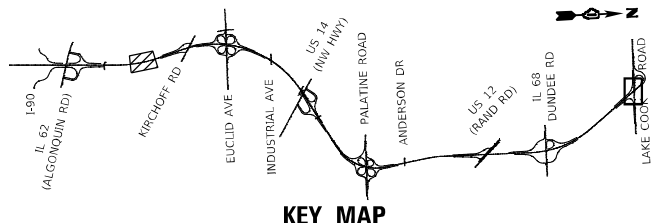
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
PERMANENT EROSION CONTROL AND LANDSCAPING PLAN

SCALE: 1" = 50' SHEET 5 OF 19 SHEETS STA. 1161+50.00 TO STA. 1171+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	501
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				













END CONTRACT 62N91 IMPROVEMENTS
 BEGIN CONTRACT 62W38 IMPROVEMENTS
 STA. 1185+00.00

MATCH LINE STA. 1171+00.00

IL RTE. 53 (FAP 342)

PERMANENT EROSION CONTROL LEGEND

-  SEEDING, CLASS 2A WITH EROSION CONTROL BLANKET
-  SEEDING, CLASS 2A WITH HEAVY DUTY EROSION CONTROL BLANKET
-  SEEDING, CLASS 3 WITH HEAVY DUTY EROSION CONTROL BLANKET
-  SEEDING, CLASS 4A (MODIFIED) WITH EROSION CONTROL BLANKET
-  SEEDING, CLASS 4B (MODIFIED) WITH EROSION CONTROL BLANKET
-  STONE RIPRAP, CLASS A3
-  WETLANDS
-  SURFACE WATERS
-  PROPOSED TREE
-  PROPOSED SHRUB

ABBREVIATIONS OF COMMON NAMES

- SR (SMOOTH SUMAC)
- HM (COMMON HACKBERRY)
- SWO (SWAMP WHITE OAK)
- CO (CHINKAPIN OAK)
- CBC (COMMON BALD CYPRESS)
- SHS (STAGHORN SUMAC)
- GMSM (GREEN MOUNTAIN SUGAR MAPLE)
- EKC (EXPRESSO KENTUCKY COFFEETREE)
- DR (DAWN REDWOOD)
- CSPL (CHINA SNOW PEKING LILAC)
- WO (WHITE OAK)
- IW (IRONWOOD)

NOTES
 1. ALL LANDSCAPED AREAS SHALL INCLUDE 6" OF NEW TOPSOIL UNLESS OTHERWISE NOTED. THIS WORK SHALL BE PAID FOR AS TOPSOIL FURNISH AND PLACE, 6"
 2. FOR SLOPES STEEPER THAN 1:3, USE HEAVY DUTY EROSION CONTROL BLANKET.

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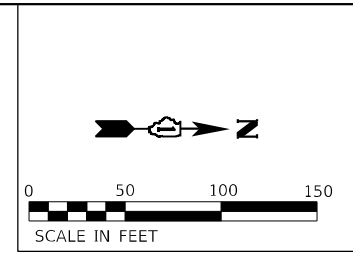
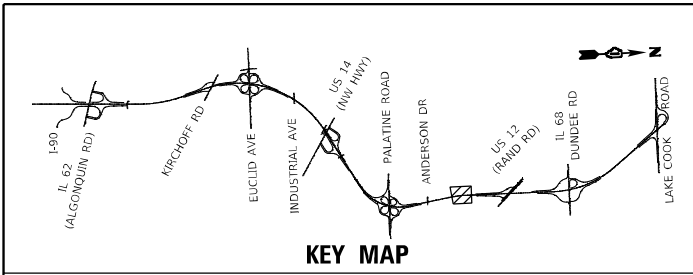
SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = NoahA	DESIGNED - SRB	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 12/12/2024	CHECKED - MAG	REVISED -
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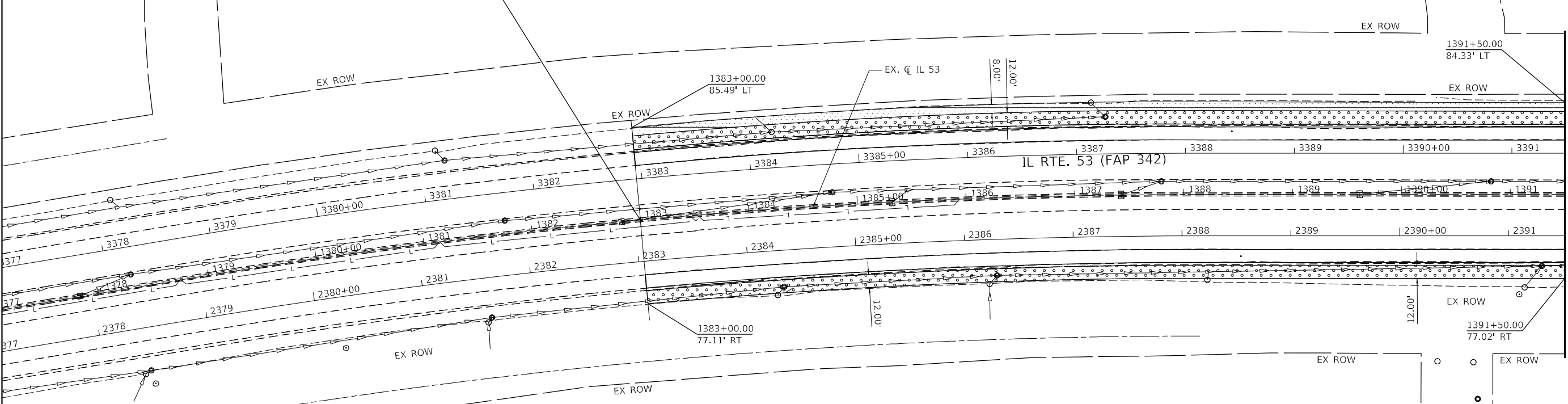
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 53
 PERMANENT EROSION CONTROL AND LANDSCAPING PLAN**
 SCALE: 1" = 50' SHEET 6 OF 19 SHEETS STA. 1171+00.00 TO STA. 1186+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	502
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



END CONTRACT 62W38 IMPROVEMENTS
 BEGIN CONTRACT 62N91 IMPROVEMENTS
 STA. 1383+00.00



PERMANENT EROSION CONTROL LEGEND		ABBREVIATIONS OF COMMON NAMES
[Pattern: Dotted]	SEEDING, CLASS 2A WITH EROSION CONTROL BLANKET	SR (SMOOTH SUMAC)
[Pattern: Diagonal lines]	SEEDING, CLASS 2A WITH HEAVY DUTY EROSION CONTROL BLANKET	HM (COMMON HACKBERRY)
[Pattern: Grid]	SEEDING, CLASS 3 WITH HEAVY DUTY EROSION CONTROL BLANKET	SWO (SWAMP WHITE OAK)
[Pattern: Horizontal lines]	SEEDING, CLASS 4A (MODIFIED) WITH EROSION CONTROL BLANKET	CO (CHINKAPIN OAK)
[Pattern: Vertical lines]	SEEDING, CLASS 4B (MODIFIED) WITH EROSION CONTROL BLANKET	CBC (COMMON BALD CYPRESS)
[Pattern: Stippled]	STONE RIPRAP, CLASS A3	SHS (STAGHORN SUMAC)
[Pattern: Wavy lines]	WETLANDS	GMSM (GREEN MOUNTAIN SUGAR MAPLE)
[Symbol: Solid black rectangle]	SURFACE WATERS	EKC (EXPRESSO KENTUCKY COFFEETREE)
[Symbol: Circle with cross]	PROPOSED TREE	DR (DAWN REDWOOD)
[Symbol: Open circle]	PROPOSED SHRUB	CSPL (CHINA SNOW PEKING LILAC)
		WO (WHITE OAK)
		IW (IRONWOOD)

NOTES

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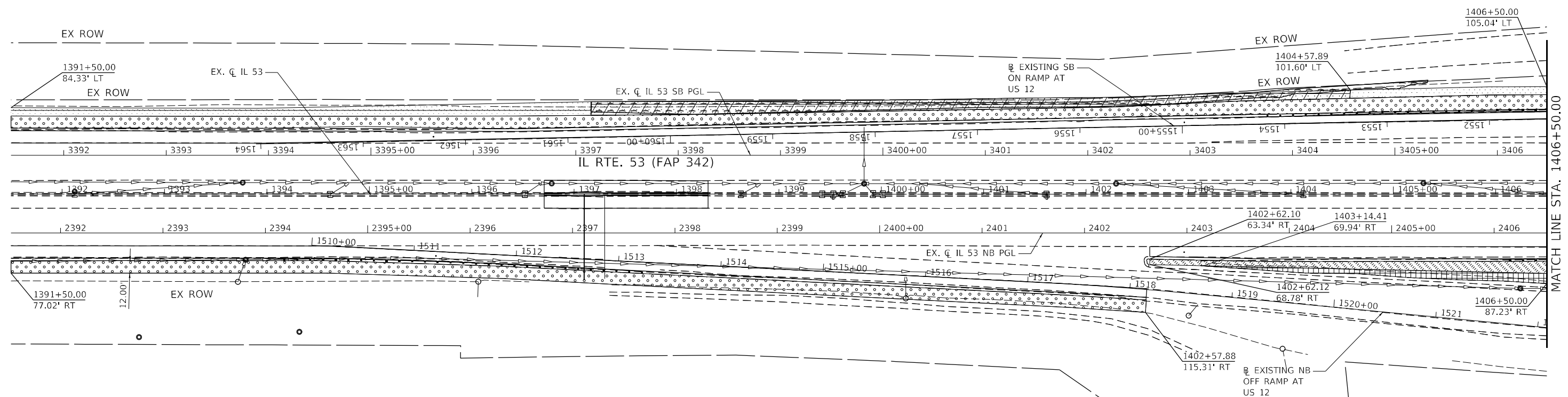
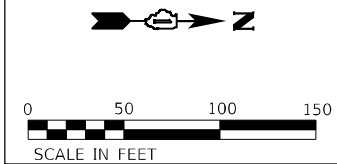
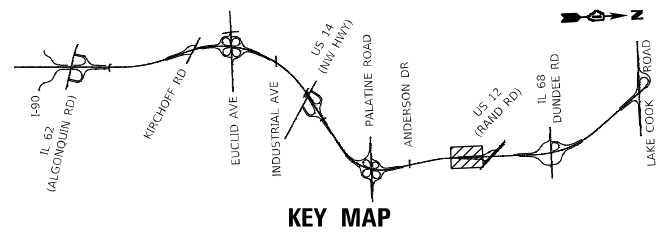
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**IL ROUTE 53
 PERMANENT EROSION CONTROL AND LANDSCAPING PLAN**











SCALE: 1" = 50' SHEET 7 OF 19 SHEETS STA. 1378+50.00 TO STA. 1391+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	503
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



MATCH LINE STA. 1406+50.00

PERMANENT EROSION CONTROL LEGEND

-  SEEDING, CLASS 2A WITH EROSION CONTROL BLANKET
-  SEEDING, CLASS 2A WITH HEAVY DUTY EROSION CONTROL BLANKET
-  SEEDING, CLASS 3 WITH HEAVY DUTY EROSION CONTROL BLANKET
-  SEEDING, CLASS 4A (MODIFIED) WITH EROSION CONTROL BLANKET
-  SEEDING, CLASS 4B (MODIFIED) WITH EROSION CONTROL BLANKET
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-  SURFACE WATERS
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-  PROPOSED SHRUB

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- HM (COMMON HACKBERRY)
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- CO (CHINKAPIN OAK)
- CBC (COMMON BALD CYPRESS)
- SHS (STAGHORN SUMAC)
- GMSM (GREEN MOUNTAIN SUGAR MAPLE)
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NOTES

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2. FOR SLOPES STEEPER THAN 1:3, USE HEAVY DUTY EROSION CONTROL BLANKET.

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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

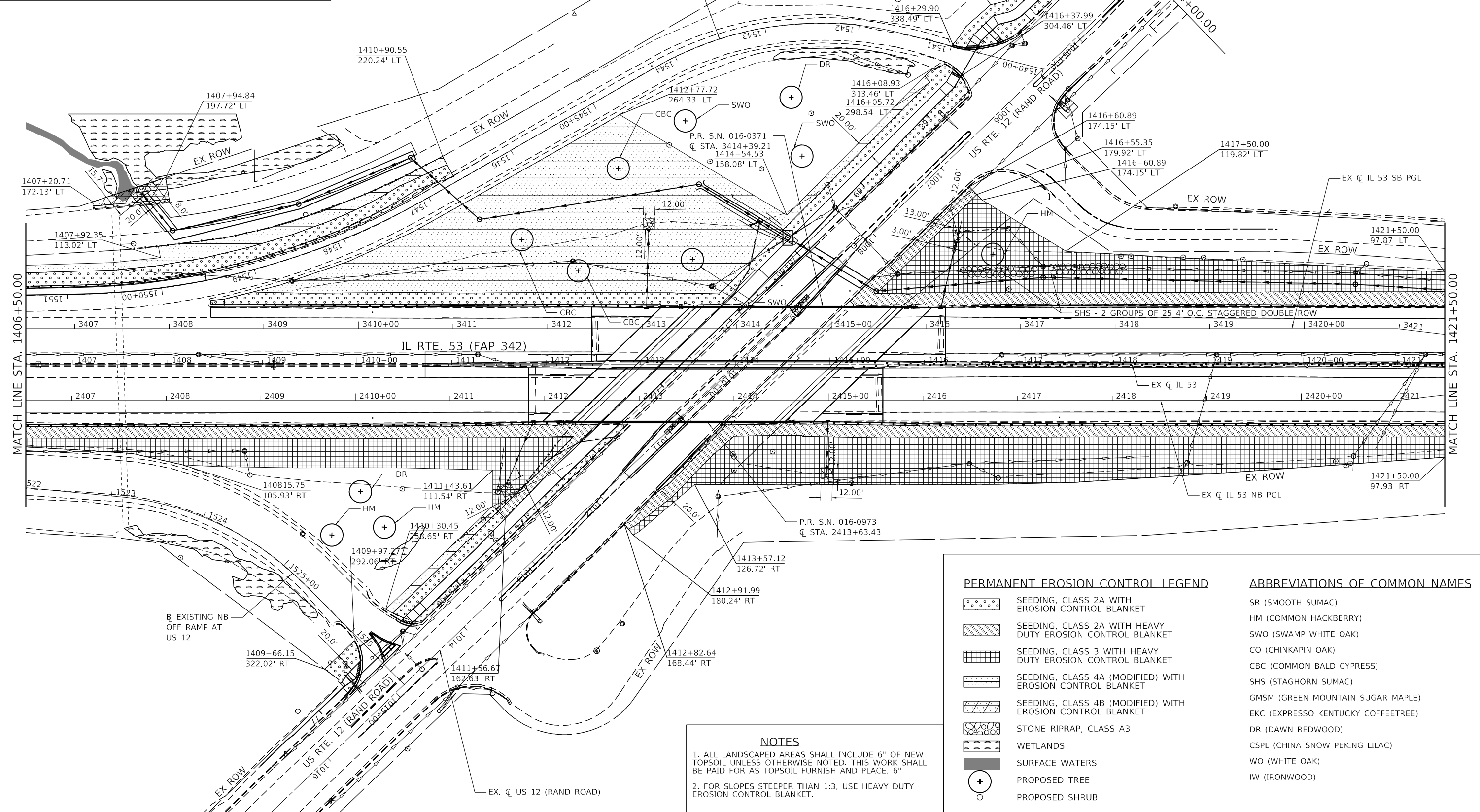
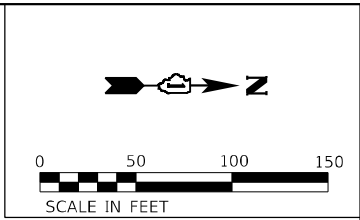
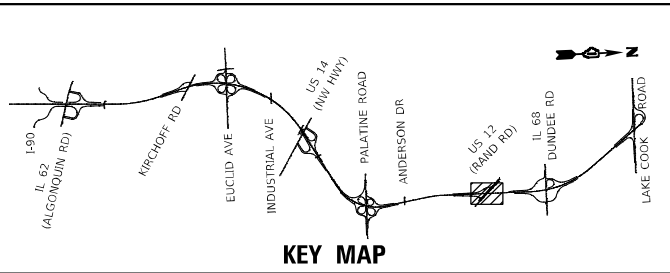
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	DATE - 12/13/24	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 53
PERMANENT EROSION CONTROL AND LANDSCAPING PLAN**

SCALE: 1" = 50' SHEET 8 OF 19 SHEETS STA. 1391+50.00 TO STA. 1406+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	504
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



PERMANENT EROSION CONTROL LEGEND		ABBREVIATIONS OF COMMON NAMES	
	SEEDING, CLASS 2A WITH EROSION CONTROL BLANKET	SR	(SMOOTH SUMAC)
	SEEDING, CLASS 2A WITH HEAVY DUTY EROSION CONTROL BLANKET	HM	(COMMON HACKBERRY)
	SEEDING, CLASS 3 WITH HEAVY DUTY EROSION CONTROL BLANKET	SWO	(SWAMP WHITE OAK)
	SEEDING, CLASS 4A (MODIFIED) WITH EROSION CONTROL BLANKET	CO	(CHINKAPIN OAK)
	SEEDING, CLASS 4B (MODIFIED) WITH EROSION CONTROL BLANKET	CBC	(COMMON BALD CYPRESS)
	STONE RIPRAP, CLASS A3	SHS	(STAGHORN SUMAC)
	WETLANDS	GMSM	(GREEN MOUNTAIN SUGAR MAPLE)
	SURFACE WATERS	EKC	(EXPRESSO KENTUCKY COFFEETREE)
	PROPOSED TREE	DR	(DAWN REDWOOD)
	PROPOSED SHRUB	CSPL	(CHINA SNOW PEKING LILAC)
		WO	(WHITE OAK)
		IW	(IRONWOOD)

NOTES

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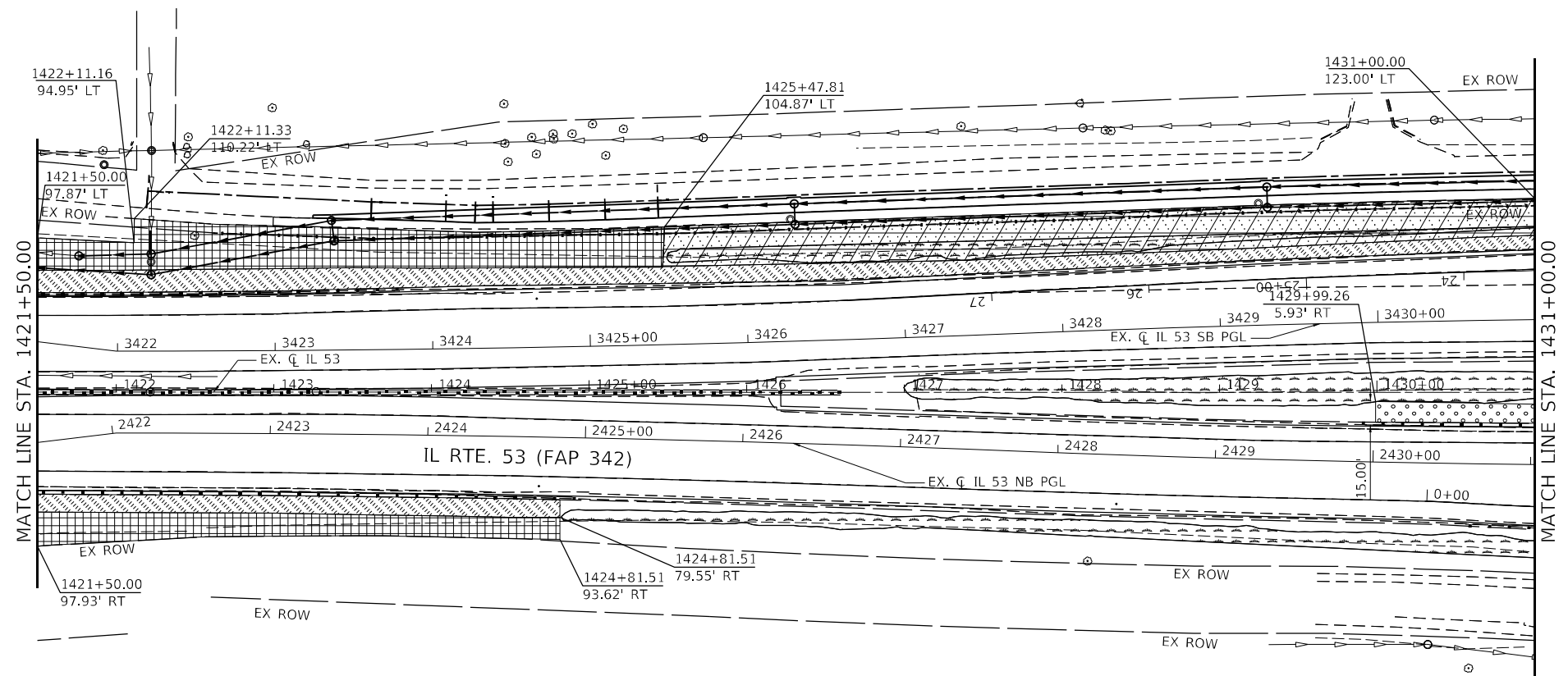
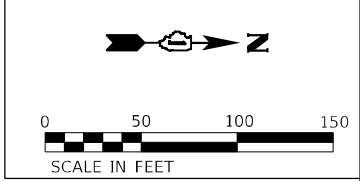
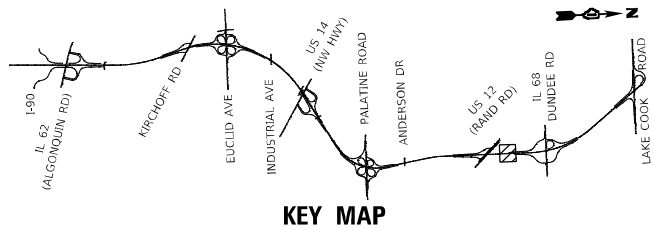
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PLOT SCALE = 100,0000' / in.	DRAWN - DJW	REVISED -
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	DATE - 12/13/24	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 53
PERMANENT EROSION CONTROL AND LANDSCAPING PLAN**

SCALE: 1" = 50' SHEET 9 OF 19 SHEETS STA. 1406+50.00 TO STA. 1421+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	505
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



PERMANENT EROSION CONTROL LEGEND

- SEEDING, CLASS 2A WITH EROSION CONTROL BLANKET
- SEEDING, CLASS 2A WITH HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING, CLASS 3 WITH HEAVY DUTY EROSION CONTROL BLANKET
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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = NoahA	DESIGNED - SRB	REVISED -
DRAWN - DJW	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/12/2024	DATE - 12/13/24	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

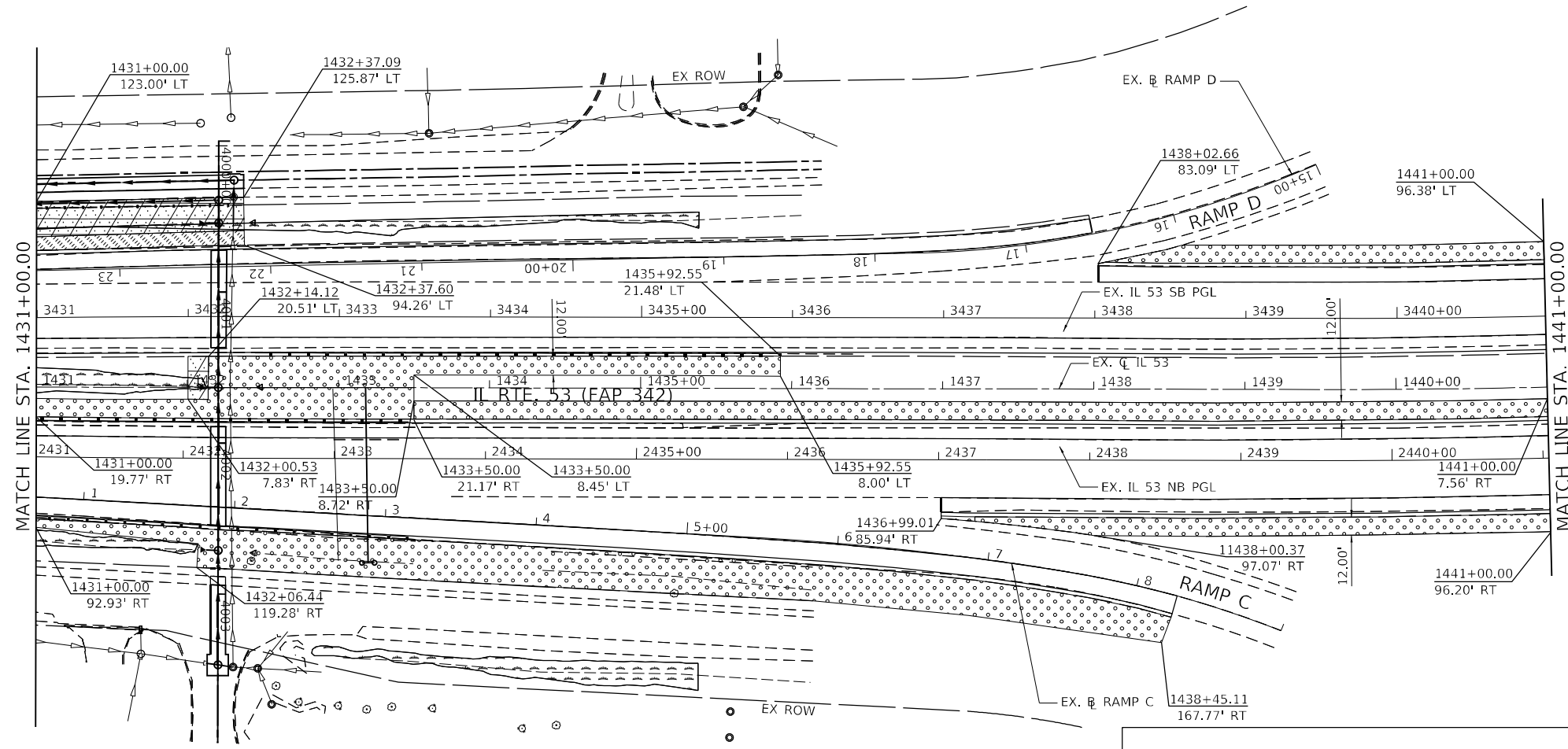
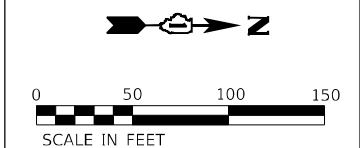
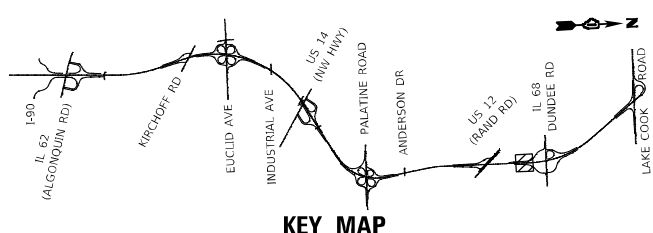
**IL ROUTE 53
PERMANENT EROSION CONTROL AND LANDSCAPING PLAN**

SCALE: 1" = 50' SHEET 10 OF 19 SHEETS STA. 1421+50.00 TO STA. 1436+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	506

CONTRACT NO. 62N91

ILLINOIS FED. AID PROJECT



NOTES

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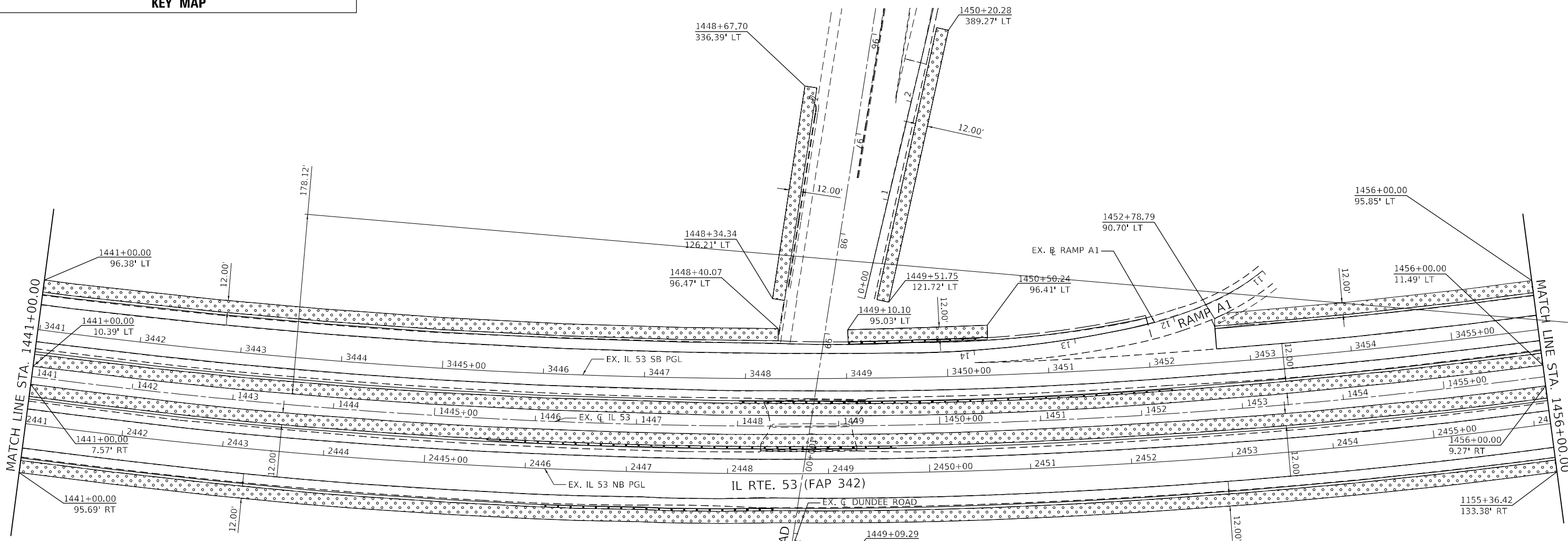
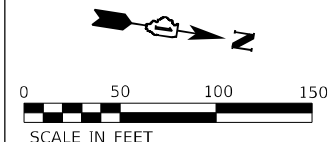
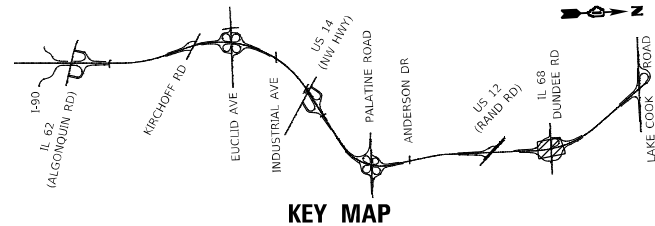
SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = NoahA	DESIGNED - SRB	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 12/12/2024	CHECKED - MAG	REVISED -
	DATE - 12/13/24	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 53
 PERMANENT EROSION CONTROL AND LANDSCAPING PLAN**
 SCALE: 1" = 50' SHEET 11 OF 19 SHEETS STA. 1431+00.00 TO STA. 1441+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	507
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



PERMANENT EROSION CONTROL LEGEND		ABBREVIATIONS OF COMMON NAMES	
	SEEDING, CLASS 2A WITH EROSION CONTROL BLANKET	SR	(SMOOTH SUMAC)
	SEEDING, CLASS 2A WITH HEAVY DUTY EROSION CONTROL BLANKET	HM	(COMMON HACKBERRY)
	SEEDING, CLASS 3 WITH HEAVY DUTY EROSION CONTROL BLANKET	SWO	(SWAMP WHITE OAK)
	SEEDING, CLASS 4A (MODIFIED) WITH EROSION CONTROL BLANKET	CO	(CHINKAPIN OAK)
	SEEDING, CLASS 4B (MODIFIED) WITH EROSION CONTROL BLANKET	CBC	(COMMON BALD CYPRESS)
	STONE RIPRAP, CLASS A3	SHS	(STAGHORN SUMAC)
	WETLANDS	GMSM	(GREEN MOUNTAIN SUGAR MAPLE)
	SURFACE WATERS	EKC	(EXPRESSO KENTUCKY COFFEETREE)
	PROPOSED TREE	DR	(DAWN REDWOOD)
	PROPOSED SHRUB	CSPL	(CHINA SNOW PEKING LILAC)
		WO	(WHITE OAK)
		IW	(IRONWOOD)

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PLOT SCALE = 100,0000' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 12/12/2024	CHECKED - MAG	REVISED -
	DATE - 12/13/24	REVISED -

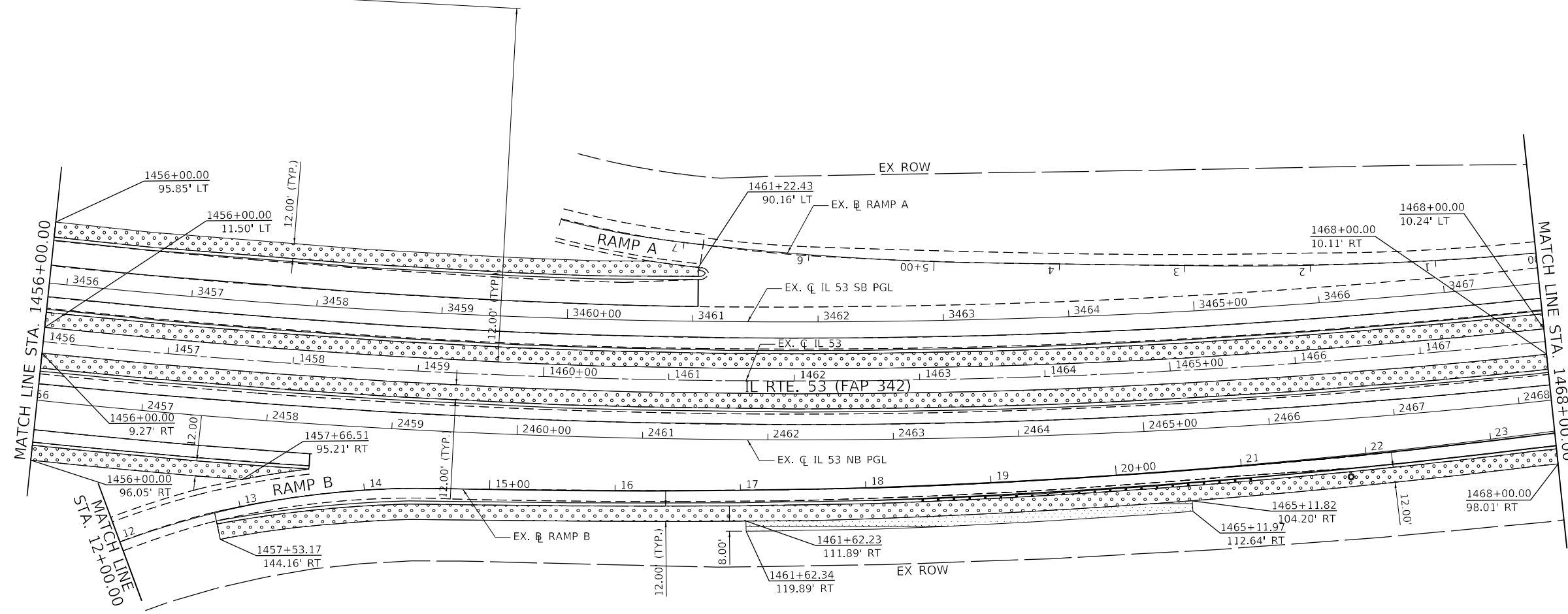
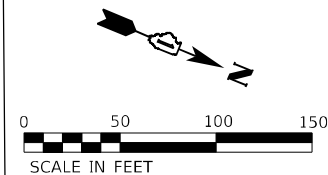
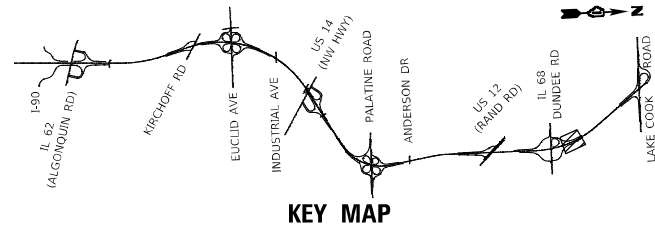
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 53
PERMANENT EROSION CONTROL AND LANDSCAPING PLAN**

SCALE: 1" = 50' SHEET 12 OF 19 SHEETS STA. 1441+00.00 TO STA. 1456+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	508

CONTRACT NO. 62N91
ILLINOIS FED. AID PROJECT



NOTES

- ALL LANDSCAPED AREAS SHALL INCLUDE 6" OF NEW TOPSOIL UNLESS OTHERWISE NOTED. THIS WORK SHALL BE PAID FOR AS TOPSOIL FURNISH AND PLACE, 6"
- FOR SLOPES STEEPER THAN 1:3, USE HEAVY DUTY EROSION CONTROL BLANKET.

PERMANENT EROSION CONTROL LEGEND

- SEEDING, CLASS 2A WITH EROSION CONTROL BLANKET
- SEEDING, CLASS 2A WITH HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING, CLASS 3 WITH HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING, CLASS 4A (MODIFIED) WITH EROSION CONTROL BLANKET
- SEEDING, CLASS 4B (MODIFIED) WITH EROSION CONTROL BLANKET
- STONE RIPRAP, CLASS A3
- WETLANDS
- SURFACE WATERS
- PROPOSED TREE
- PROPOSED SHRUB

ABBREVIATIONS OF COMMON NAMES

- SR (SMOOTH SUMAC)
- HM (COMMON HACKBERRY)
- SWO (SWAMP WHITE OAK)
- CO (CHINKAPIN OAK)
- CBC (COMMON BALD CYPRESS)
- SHS (STAGHORN SUMAC)
- GMSM (GREEN MOUNTAIN SUGAR MAPLE)
- EKC (EXPRESSO KENTUCKY COFFEETREE)
- DR (DAWN REDWOOD)
- CSPL (CHINA SNOW PEKING LILAC)
- WO (WHITE OAK)
- IW (IRONWOOD)

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SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

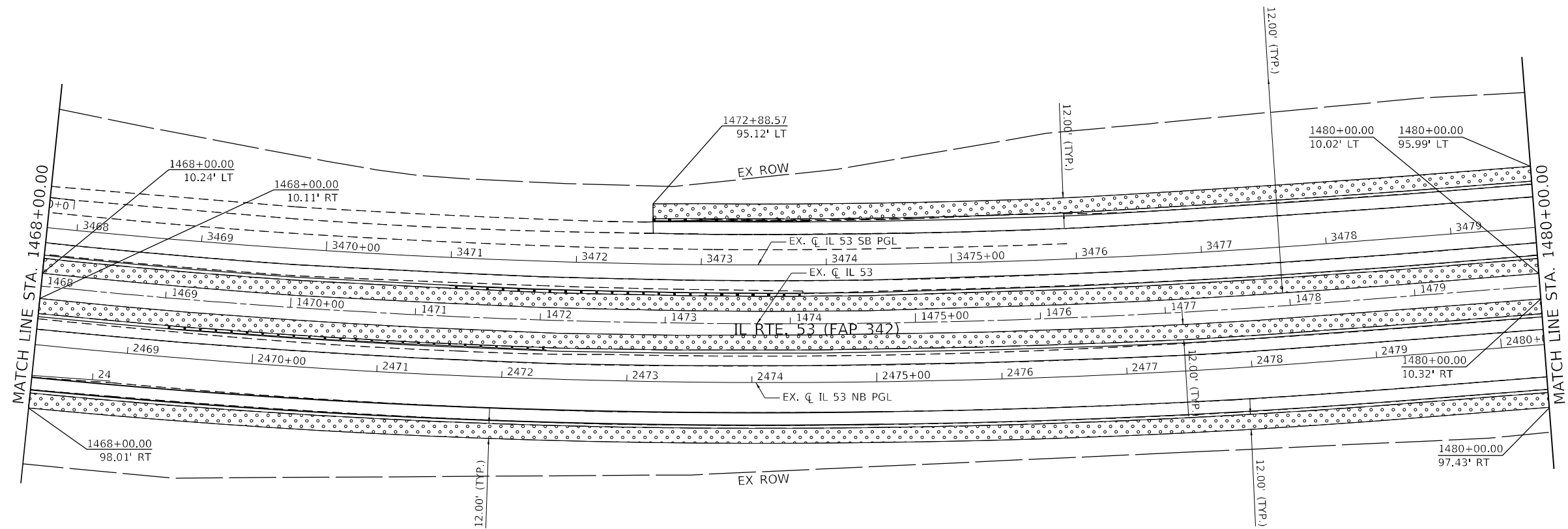
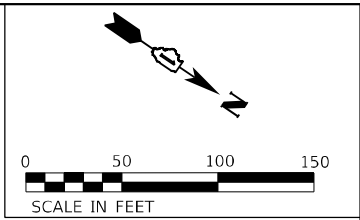
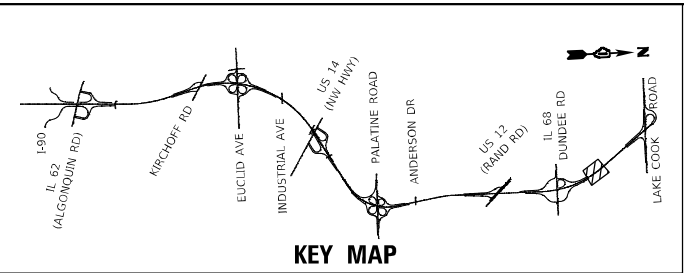
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	DATE - 12/13/24	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 53
PERMANENT EROSION CONTROL AND LANDSCAPING PLAN**

SCALE: 1" = 50' SHEET 13 OF 19 SHEETS STA. 1456+00.00 TO STA. 1468+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	509
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



NOTES

1. ALL LANDSCAPED AREAS SHALL INCLUDE 6" OF NEW TOPSOIL UNLESS OTHERWISE NOTED. THIS WORK SHALL BE PAID FOR AS TOPSOIL FURNISH AND PLACE, 6"

2. FOR SLOPES STEEPER THAN 1:3, USE HEAVY DUTY EROSION CONTROL BLANKET.

PERMANENT EROSION CONTROL LEGEND

- SEEDING, CLASS 2A WITH EROSION CONTROL BLANKET
- SEEDING, CLASS 2A WITH HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING, CLASS 3 WITH HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING, CLASS 4A (MODIFIED) WITH EROSION CONTROL BLANKET
- SEEDING, CLASS 4B (MODIFIED) WITH EROSION CONTROL BLANKET
- STONE RIPRAP, CLASS A3
- WETLANDS
- SURFACE WATERS
- PROPOSED TREE
- PROPOSED SHRUB

ABBREVIATIONS OF COMMON NAMES

- SR (SMOOTH SUMAC)
- HM (COMMON HACKBERRY)
- SWO (SWAMP WHITE OAK)
- CO (CHINKAPIN OAK)
- CBC (COMMON BALD CYPRESS)
- SHS (STAGHORN SUMAC)
- GMSM (GREEN MOUNTAIN SUGAR MAPLE)
- EKC (EXPRESSO KENTUCKY COFFEETREE)
- DR (DAWN REDWOOD)
- CSPL (CHINA SNOW PEKING LILAC)
- WO (WHITE OAK)
- IW (IRONWOOD)

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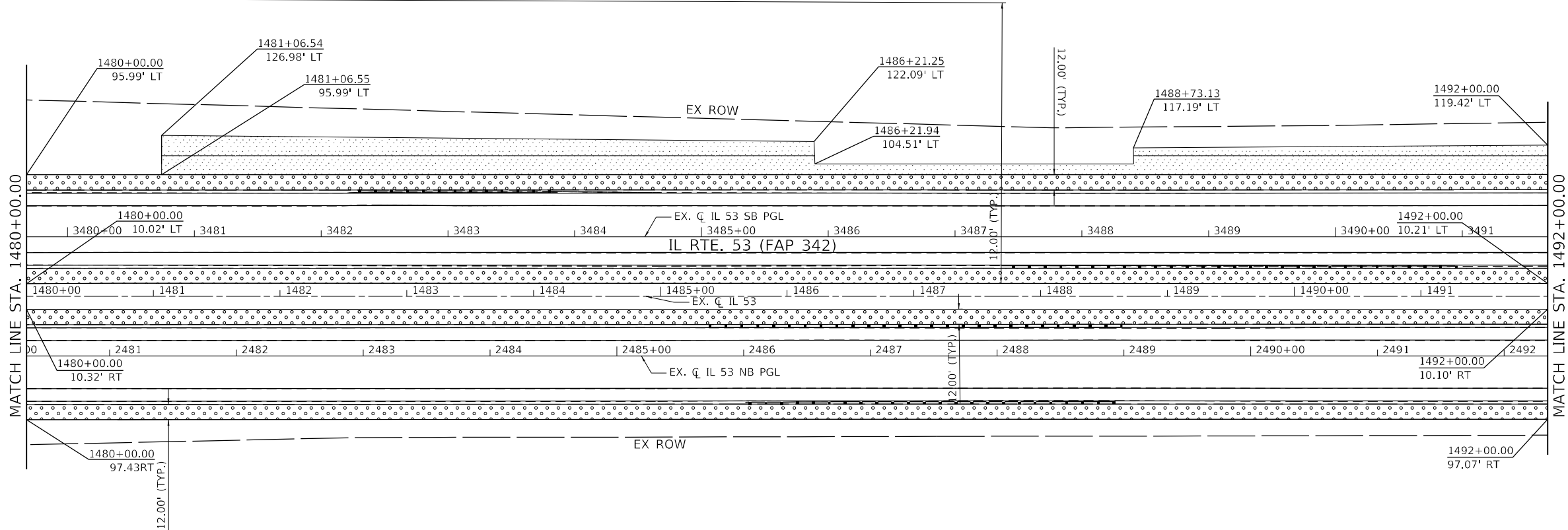
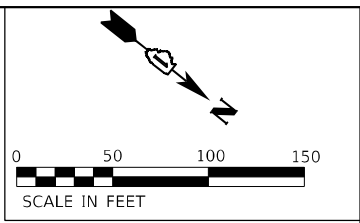
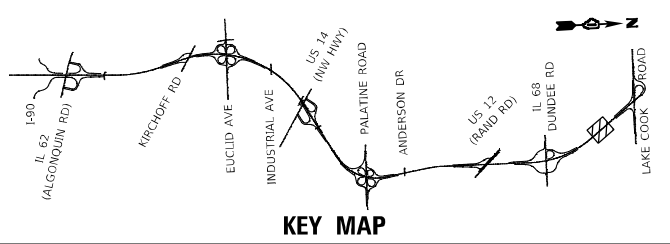
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DRAWN - DJW	REVISED -	
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PLOT DATE = 12/12/2024	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
PERMANENT EROSION CONTROL AND LANDSCAPING PLAN

SCALE: 1" = 50' SHEET 14 OF 19 SHEETS STA. 1468+00.00 TO STA. 1480+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	510
CONTRACT NO. 62N91			ILLINOIS FED. AID PROJECT	



PERMANENT EROSION CONTROL LEGEND		ABBREVIATIONS OF COMMON NAMES	
	SEEDING, CLASS 2A WITH EROSION CONTROL BLANKET	SR	(SMOOTH SUMAC)
	SEEDING, CLASS 2A WITH HEAVY DUTY EROSION CONTROL BLANKET	HM	(COMMON HACKBERRY)
	SEEDING, CLASS 3 WITH HEAVY DUTY EROSION CONTROL BLANKET	SWO	(SWAMP WHITE OAK)
	SEEDING, CLASS 4A (MODIFIED) WITH EROSION CONTROL BLANKET	CO	(CHINKAPIN OAK)
	SEEDING, CLASS 4B (MODIFIED) WITH EROSION CONTROL BLANKET	CBC	(COMMON BALD CYPRESS)
	STONE RIPRAP, CLASS A3	SHS	(STAGHORN SUMAC)
	WETLANDS	GMSM	(GREEN MOUNTAIN SUGAR MAPLE)
	SURFACE WATERS	EKC	(EXPRESSO KENTUCKY COFFEETREE)
	PROPOSED TREE	DR	(DAWN REDWOOD)
	PROPOSED SHRUB	CSPL	(CHINA SNOW PEKING LILAC)
		WO	(WHITE OAK)
		IW	(IRONWOOD)

NOTES

- ALL LANDSCAPED AREAS SHALL INCLUDE 6" OF NEW TOPSOIL UNLESS OTHERWISE NOTED. THIS WORK SHALL BE PAID FOR AS TOPSOIL FURNISH AND PLACE, 6"
- FOR SLOPES STEEPER THAN 1:3, USE HEAVY DUTY EROSION CONTROL BLANKET.

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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

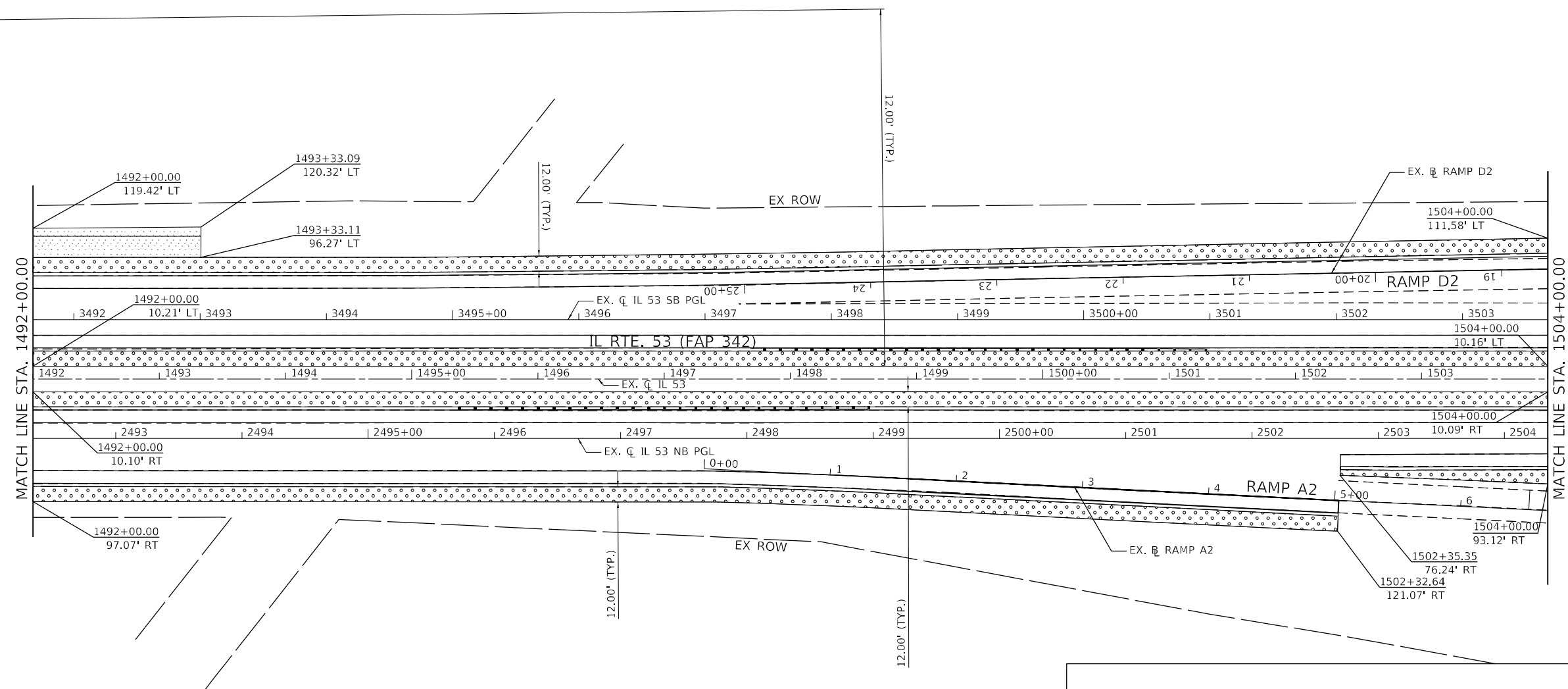
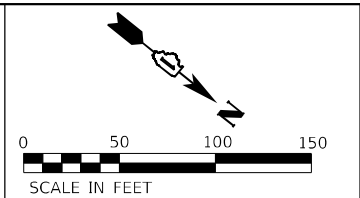
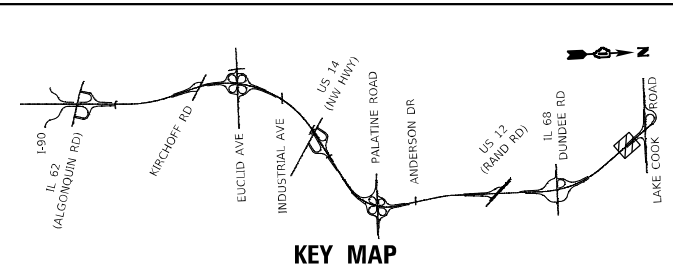
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
PERMANENT EROSION CONTROL AND LANDSCAPING PLAN

SCALE: 1" = 50' SHEET 15 OF 19 SHEETS STA. 1480+00.00 TO STA. 1492+00.00

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 511
CONTRACT NO. 62N91				
		ILLINOIS	FED. AID PROJECT	



PERMANENT EROSION CONTROL LEGEND		ABBREVIATIONS OF COMMON NAMES	
	SEEDING, CLASS 2A WITH EROSION CONTROL BLANKET	SR	(SMOOTH SUMAC)
	SEEDING, CLASS 2A WITH HEAVY DUTY EROSION CONTROL BLANKET	HM	(COMMON HACKBERRY)
	SEEDING, CLASS 3 WITH HEAVY DUTY EROSION CONTROL BLANKET	SWO	(SWAMP WHITE OAK)
	SEEDING, CLASS 4A (MODIFIED) WITH EROSION CONTROL BLANKET	CO	(CHINKAPIN OAK)
	SEEDING, CLASS 4B (MODIFIED) WITH EROSION CONTROL BLANKET	CBC	(COMMON BALD CYPRESS)
	STONE RIPRAP, CLASS A3	SHS	(STAGHORN SUMAC)
	WETLANDS	GMSM	(GREEN MOUNTAIN SUGAR MAPLE)
	SURFACE WATERS	EKC	(EXPRESSO KENTUCKY COFFEETREE)
	PROPOSED TREE	DR	(DAWN REDWOOD)
	PROPOSED SHRUB	CSPL	(CHINA SNOW PEKING LILAC)
		WO	(WHITE OAK)
		IW	(IRONWOOD)

NOTES
1. ALL LANDSCAPED AREAS SHALL INCLUDE 6" OF NEW TOPSOIL UNLESS OTHERWISE NOTED. THIS WORK SHALL BE PAID FOR AS TOPSOIL FURNISH AND PLACE, 6"
2. FOR SLOPES STEEPER THAN 1:3, USE HEAVY DUTY EROSION CONTROL BLANKET.

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SA STRAND ASSOCIATES

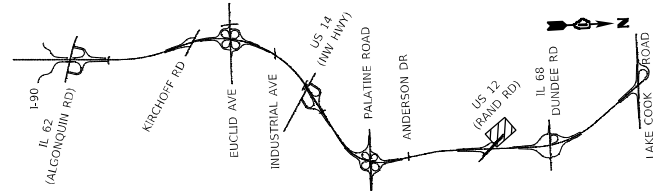
SA
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
ASSOCIATES

USER NAME = NoahA	DESIGNED - SRB	REVISIONS
	DRAWN - DJW	REVISED -
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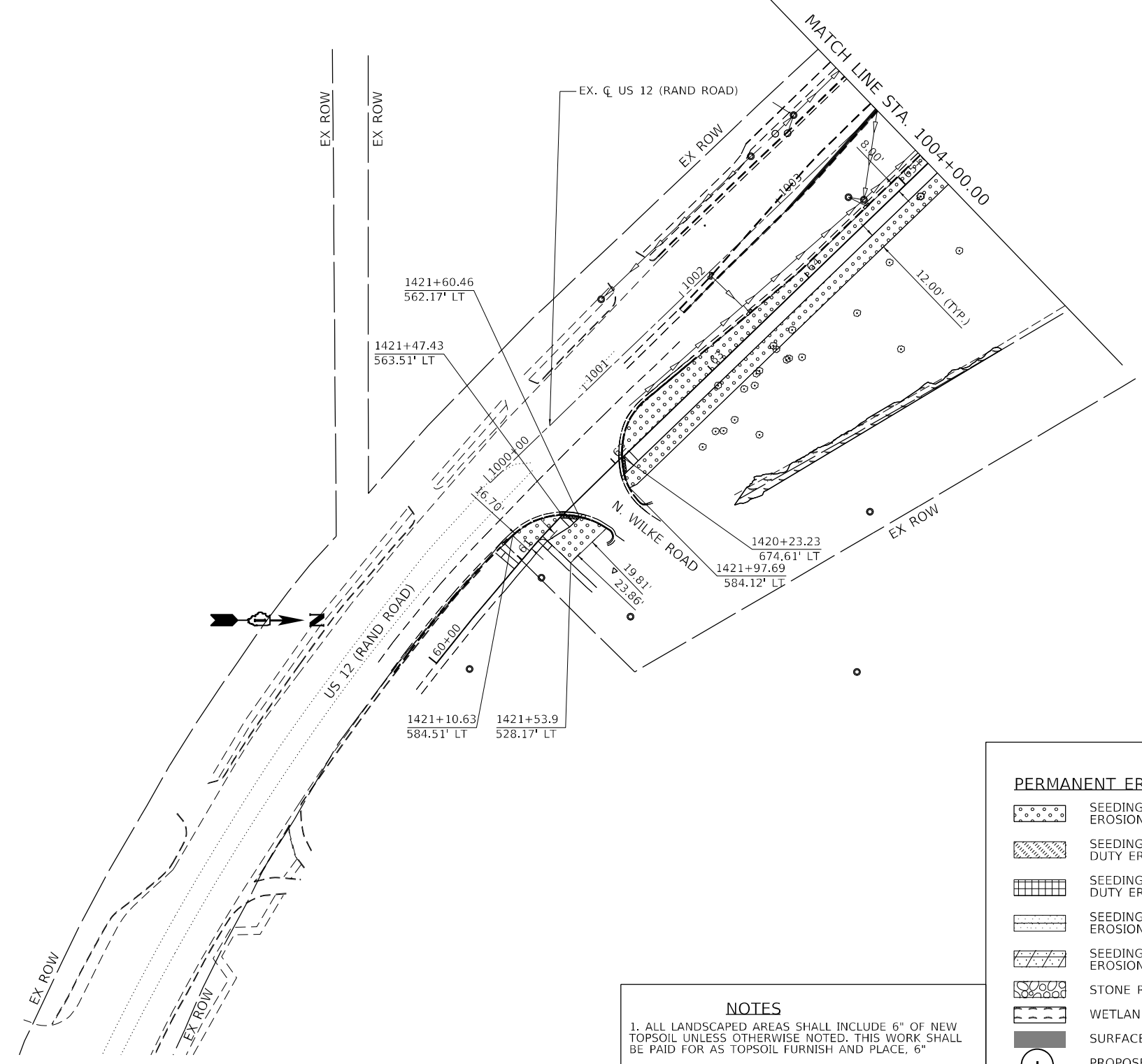
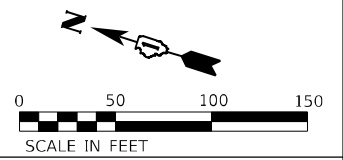
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
PERMANENT EROSION CONTROL AND LANDSCAPING PLAN
SCALE: 1" = 50' SHEET 16 OF 19 SHEETS STA. 1492+00.00 TO STA. 1504+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	512
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



KEY MAP



NOTES
 1. ALL LANDSCAPED AREAS SHALL INCLUDE 6" OF NEW TOPSOIL UNLESS OTHERWISE NOTED. THIS WORK SHALL BE PAID FOR AS TOPSOIL FURNISH AND PLACE, 6"
 2. FOR SLOPES STEEPER THAN 1:3, USE HEAVY DUTY EROSION CONTROL BLANKET.

PERMANENT EROSION CONTROL LEGEND		ABBREVIATIONS OF COMMON NAMES	
	SEEDING, CLASS 2A WITH EROSION CONTROL BLANKET	SR	(SMOOTH SUMAC)
	SEEDING, CLASS 2A WITH HEAVY DUTY EROSION CONTROL BLANKET	HM	(COMMON HACKBERRY)
	SEEDING, CLASS 3 WITH HEAVY DUTY EROSION CONTROL BLANKET	SWO	(SWAMP WHITE OAK)
	SEEDING, CLASS 4A (MODIFIED) WITH EROSION CONTROL BLANKET	CO	(CHINKAPIN OAK)
	SEEDING, CLASS 4B (MODIFIED) WITH EROSION CONTROL BLANKET	CBC	(COMMON BALD CYPRESS)
	STONE RIPRAP, CLASS A3	SHS	(STAGHORN SUMAC)
	WETLANDS	GMSM	(GREEN MOUNTAIN SUGAR MAPLE)
	SURFACE WATERS	EKC	(EXPRESSO KENTUCKY COFFEETREE)
	PROPOSED TREE	DR	(DAWN REDWOOD)
	PROPOSED SHRUB	CSPL	(CHINA SNOW PEKING LILAC)
		WO	(WHITE OAK)
		IW	(IRONWOOD)

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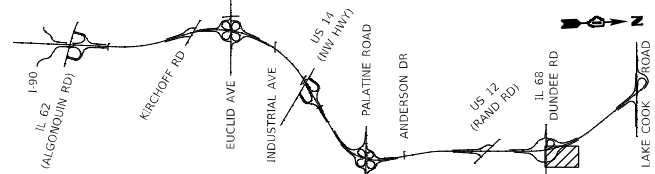
SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = NoahA	DESIGNED - SRB	REVISED -
	DRAWN - DJW	REVISED -
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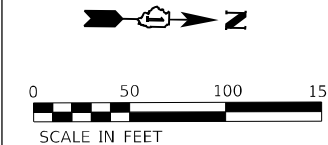
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 12 (RAND ROAD)
PERMANENT EROSION CONTROL AND LANDSCAPING PLAN
 SCALE: 1" = 50' SHEET 18 OF 19 SHEETS STA. 1004+00.00 TO STA. 1421+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	514
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

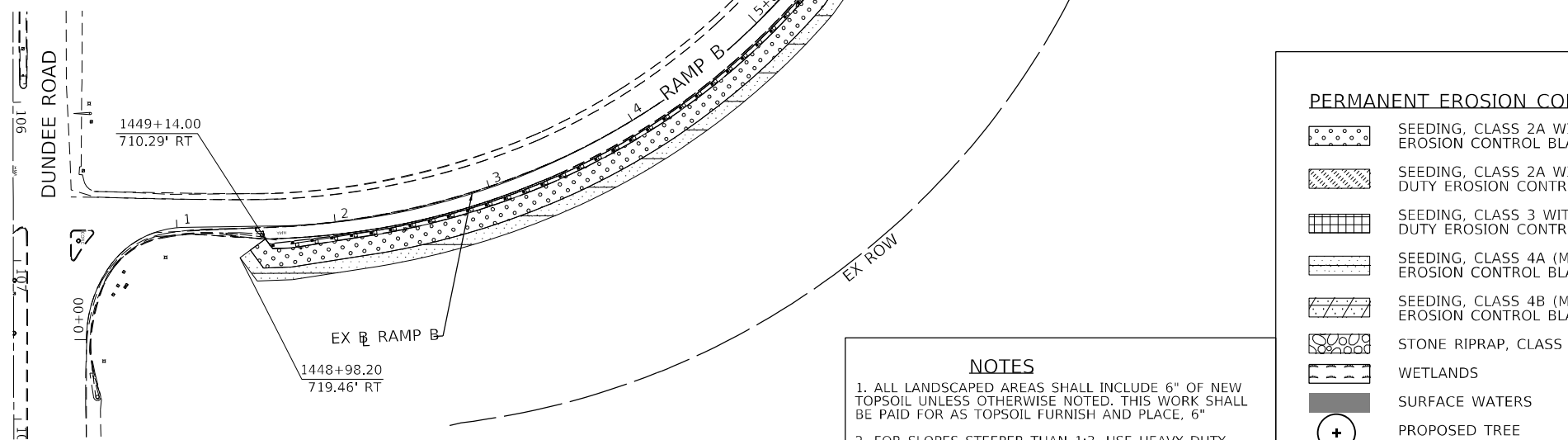


KEY MAP



PROPOSED LANDSCAPING SCHEDULE

GREEN MOUNTAIN SUGAR MAPLE (A2001816)				SWAMP WHITE OAK (A2006516)			
FROM STATION	TO STATION	LT/RT	EACH	FROM STATION	TO STATION	LT/RT	EACH
1511+00.00	1512+50.00	LT	2	1411+00.00	1414+50.00	LT	3
WHITE OAK (A2006420)				CHINKAPIN OAK (A2006816)			
FROM STATION	TO STATION	LT/RT	EACH	FROM STATION	TO STATION	LT/RT	EACH
1134+00.00	1137+00.00	LT	1	1134+00.00	1137+00.00	LT	2
1133+00.00	1134+00.00	RT	1	1513+00.00	1515+00.00	LT	2
COMMON HACKBERRY (A2002916)				COMMON BALD CYPRESS (A2007616)			
FROM STATION	TO STATION	LT/RT	EACH	FROM STATION	TO STATION	LT/RT	EACH
1409+00.00	1411+00.00	RT	2	1411+00.00	1414+50.00	LT	3
1416+00.00	1417+00.00	LT	1				
1513+00.00	1515+00.00	LT	2	CHINA SNOW PEKING LILAC (B2006116)			
DAWN REDWOOD (B2005385)				STAGHORN SUMAC (C3006024)			
FROM STATION	TO STATION	LT/RT	EACH	FROM STATION	TO STATION	LT/RT	EACH
1411+00.00	1414+50.00	LT	1	1415+50.00	1417+50.00	LT	50
1409+00.00	1411+00.00	RT	1	SMOOTH SUMAC (C3005924)			
IRONWOOD (A2C05660)				EXPRESSO KENTUCKY COFFEETREE (A2005040)			
FROM STATION	TO STATION	LT/RT	EACH	FROM STATION	TO STATION	LT/RT	EACH
1134+00.00	1137+00.00	LT	3	1130+50.00	1132+50.00	LT	25
1133+00.00	1134+00.00	RT	2	1513+00.00	1515+00.00	LT	50
1513+00.00	1515+00.00	LT	3				
EXPRESSO KENTUCKY COFFEETREE (A2005040)							
FROM STATION	TO STATION	LT/RT	EACH				
1134+00.00	1137+00.00	LT	3				



PERMANENT EROSION CONTROL LEGEND

- SEEDING, CLASS 2A WITH EROSION CONTROL BLANKET
- SEEDING, CLASS 2A WITH HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING, CLASS 3 WITH HEAVY DUTY EROSION CONTROL BLANKET
- SEEDING, CLASS 4A (MODIFIED) WITH EROSION CONTROL BLANKET
- SEEDING, CLASS 4B (MODIFIED) WITH EROSION CONTROL BLANKET
- STONE RIPRAP, CLASS A3
- WETLANDS
- SURFACE WATERS
- PROPOSED TREE
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- SWO (SWAMP WHITE OAK)
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NOTES
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 2. FOR SLOPES STEEPER THAN 1:3, USE HEAVY DUTY EROSION CONTROL BLANKET.

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1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = NoahA	DESIGNED - SRB	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 12/12/2024	CHECKED - MAG	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DUNDEE ROAD NE RAMP
 PERMANENT EROSION CONTROL AND LANDSCAPING PLAN

SCALE: 1" = 50' SHEET 19 OF 19 SHEETS STA. 0+00 TO STA. 12+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	515
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND			SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN *NO LEFT TURN*/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED			RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED			MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PERFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

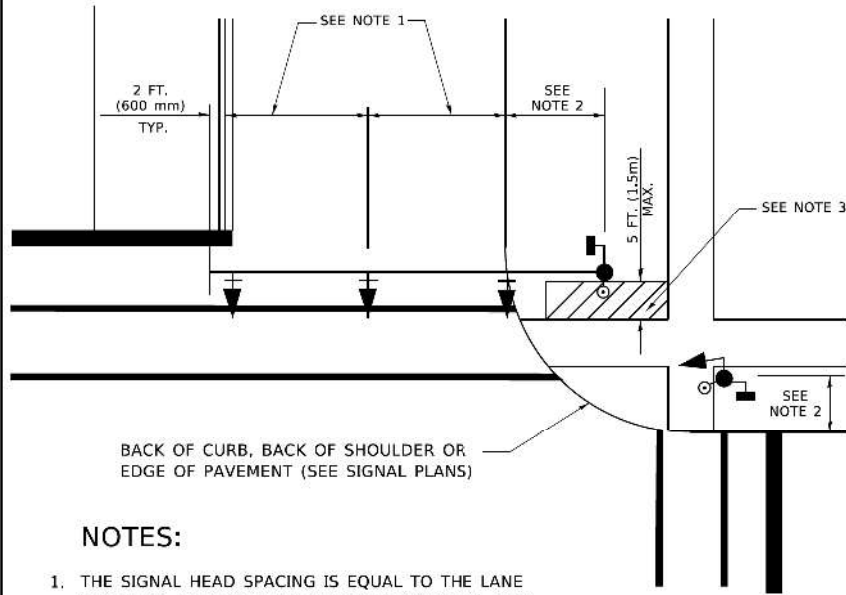
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	516
TS-05			CONTRACT NO. 62N91	
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

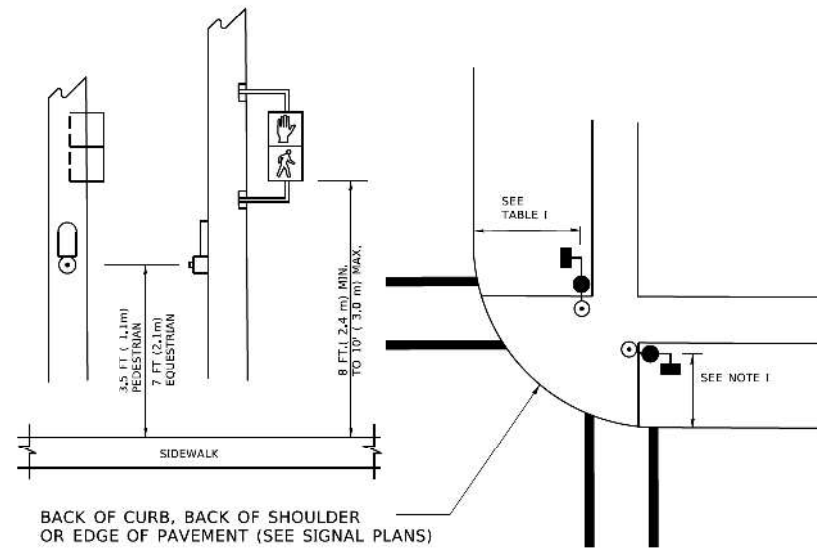
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

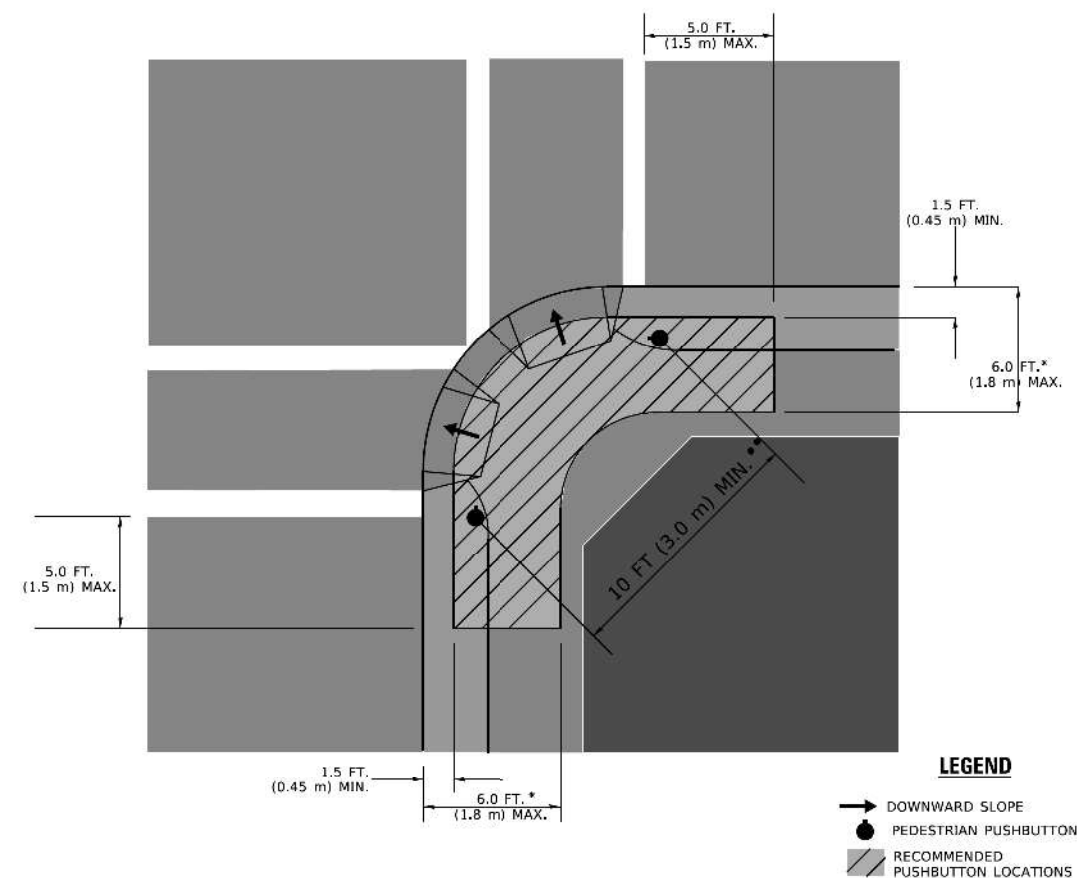
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- * WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.5m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

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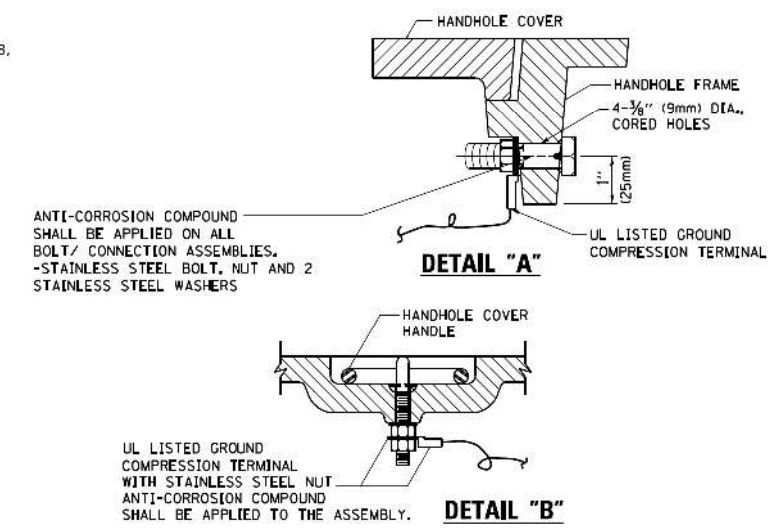
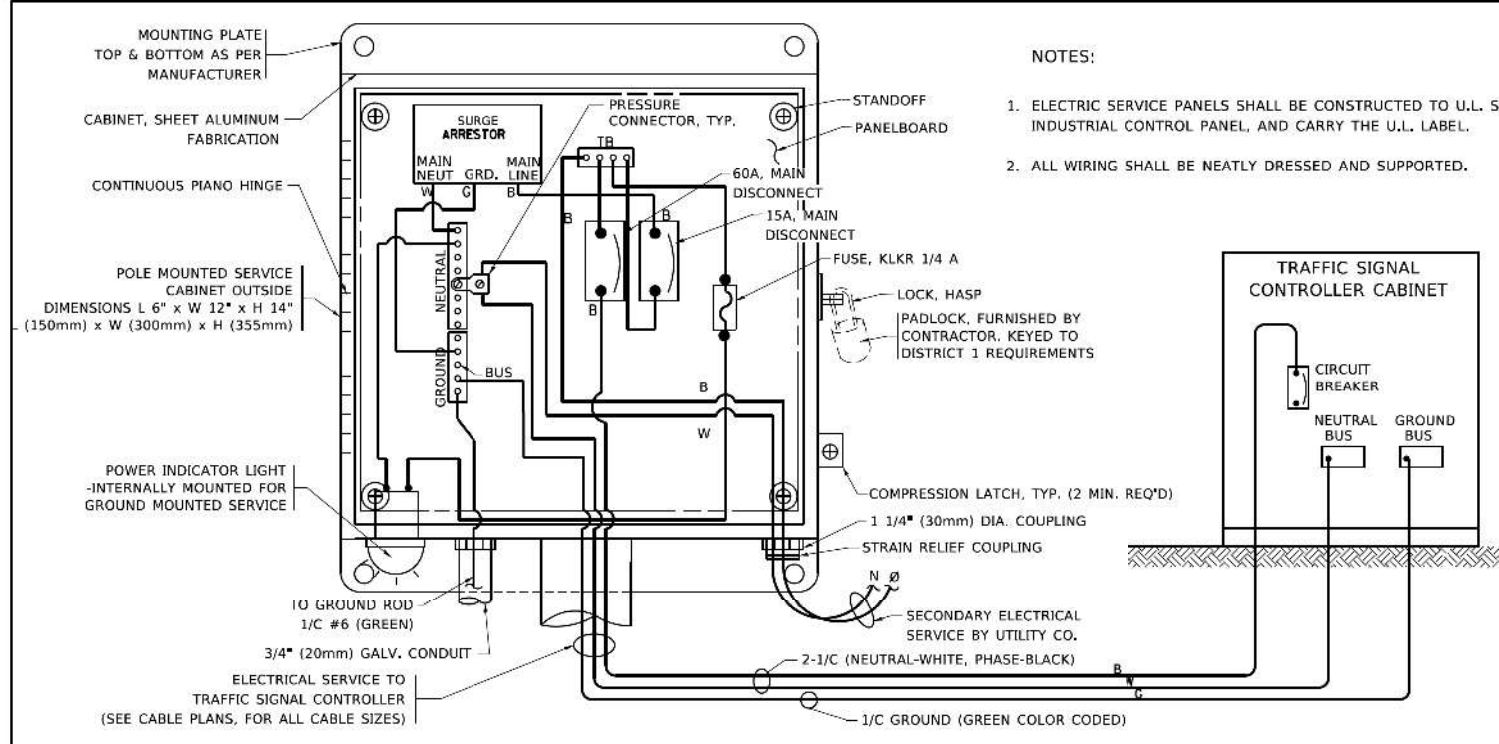
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

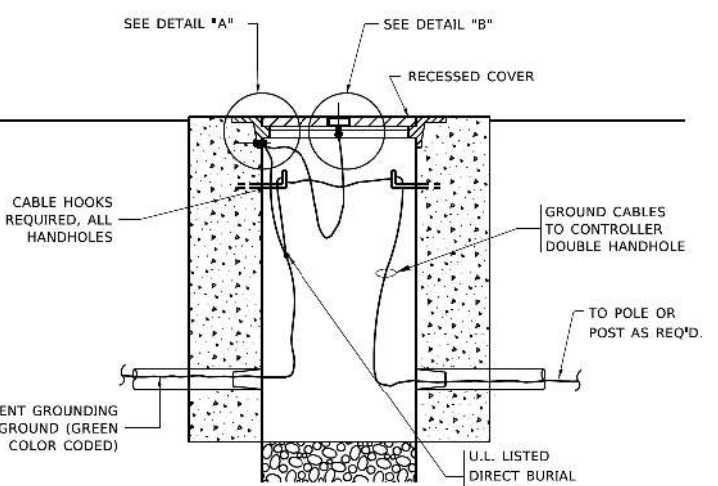
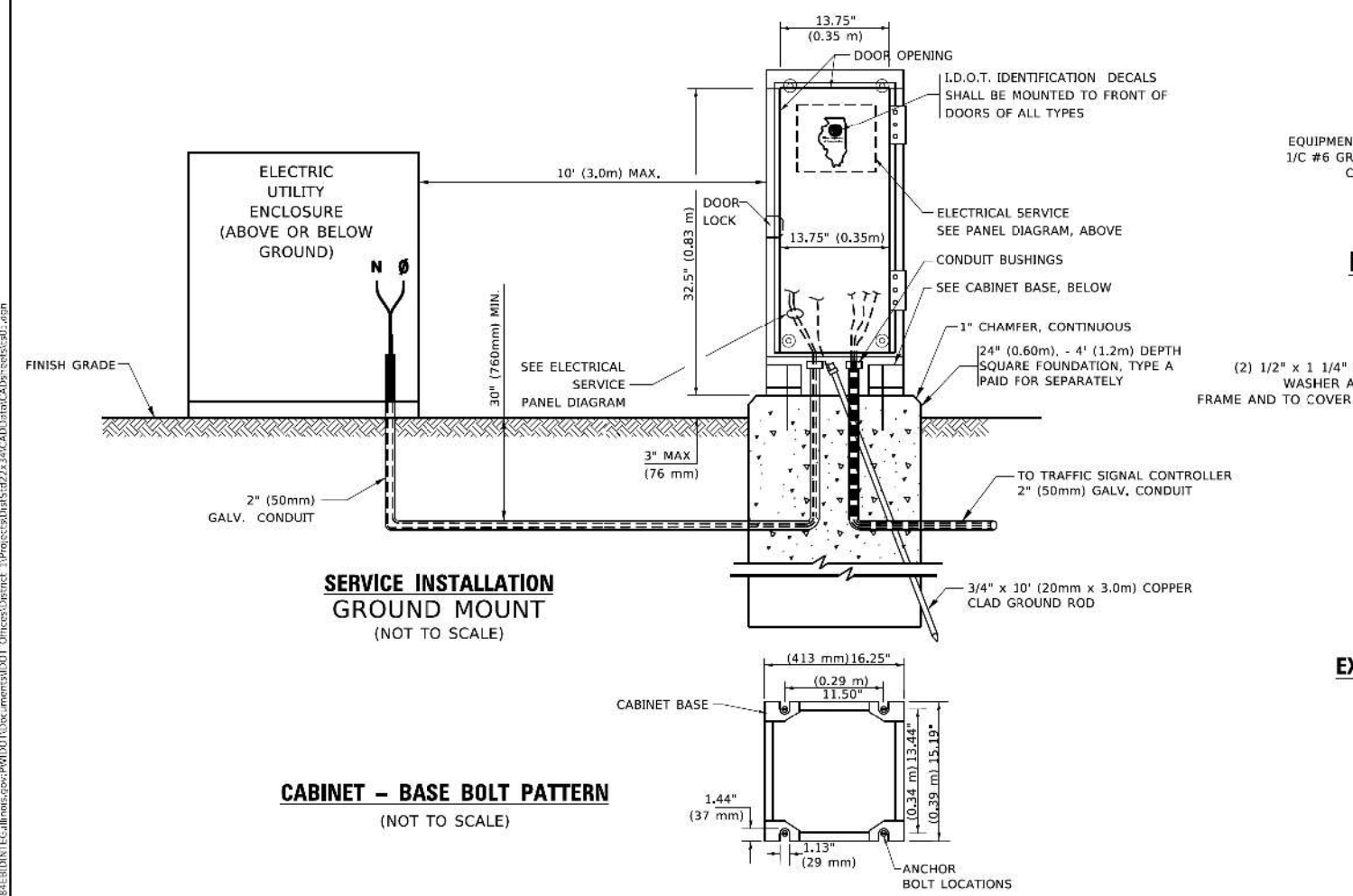
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	518
TS-05		CONTRACT NO. 62N91		
ILLINOIS FED. AID PROJECT				

SCALE: NONE SHEET 3 OF 7 SHEETS STA. TO STA.

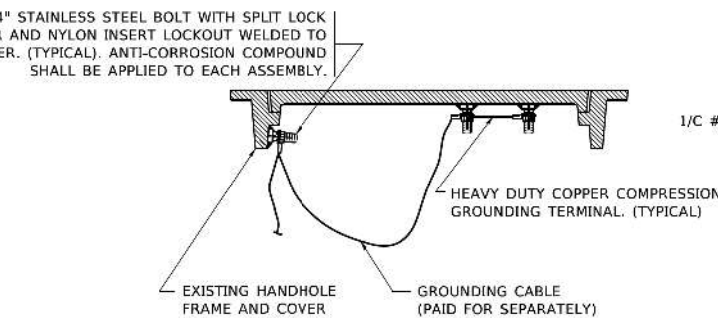


- NOTES:**
- GROUNDING SYSTEM**
- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
 - THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
 - ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
 - THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

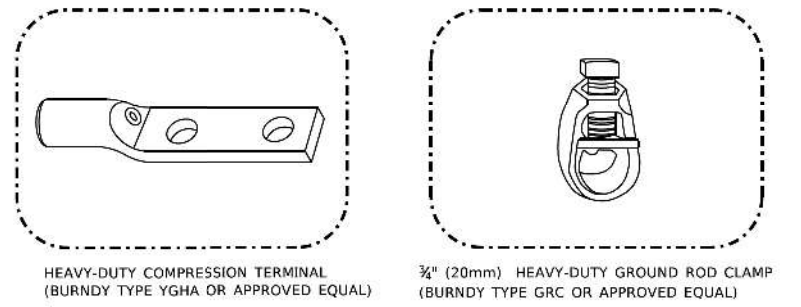
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
 SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



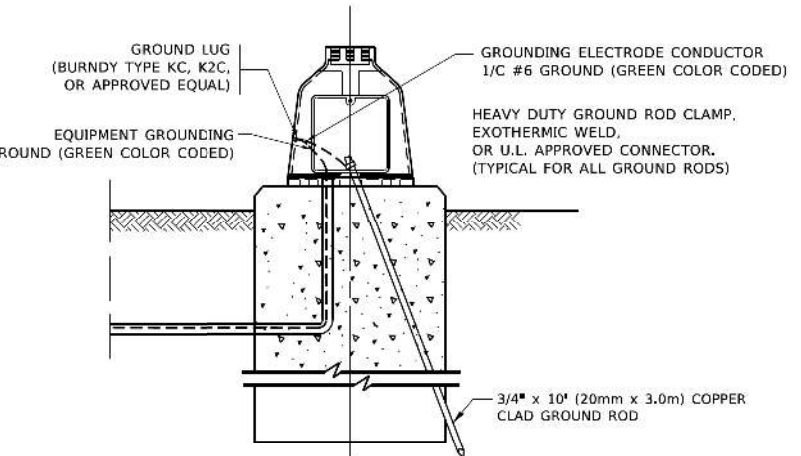
HANDHOLE COVER & FRAME – GROUNDING DETAIL
 (NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL
 (NOT TO SCALE)



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



MAST ARM POLE /POST-GROUNDING DETAIL
 (NOT TO SCALE)

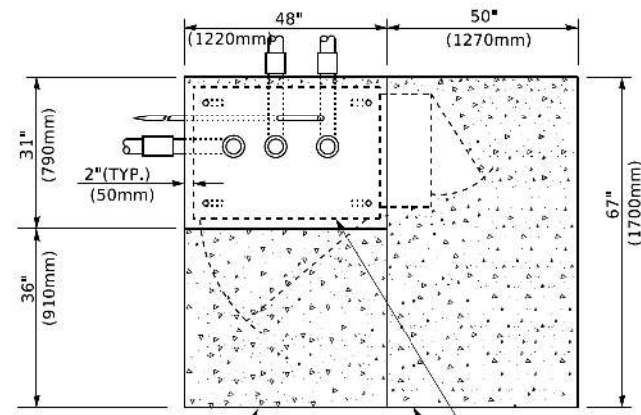
SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

CABINET – BASE BOLT PATTERN
 (NOT TO SCALE)

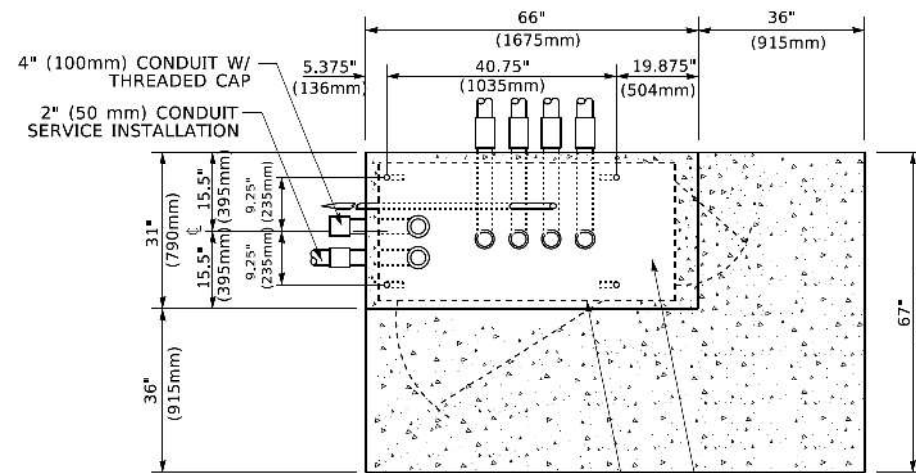
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TS-05			CONTRACT NO. 62N91	
ILLINOIS FED. AID PROJECT				

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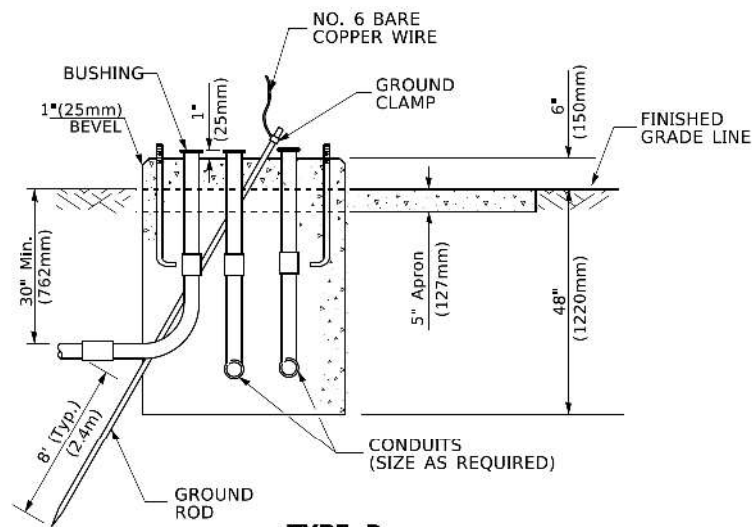


TOP VIEW

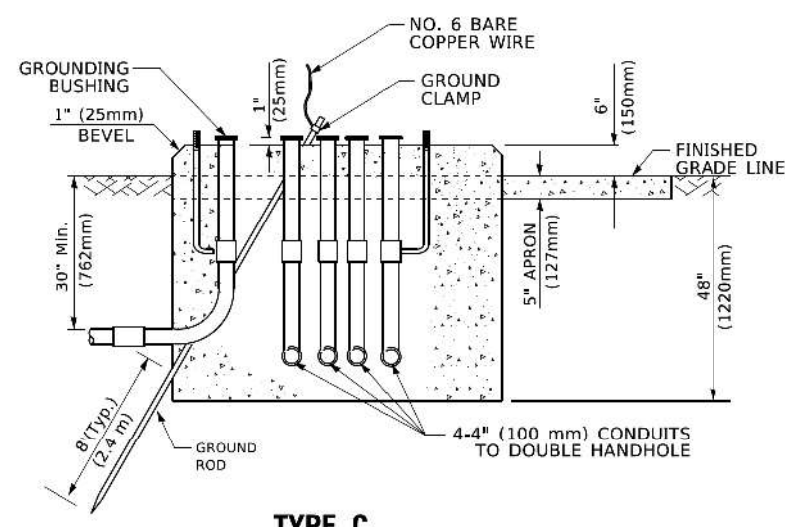


TOP VIEW

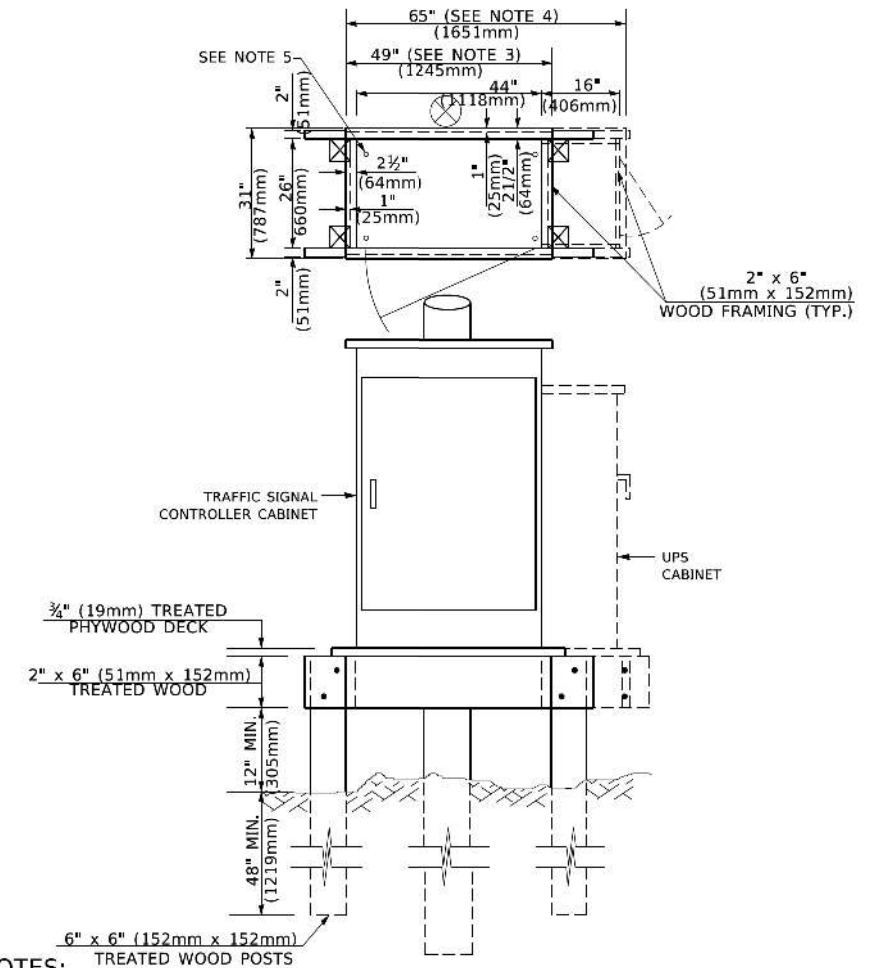
NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
- Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
- For mast arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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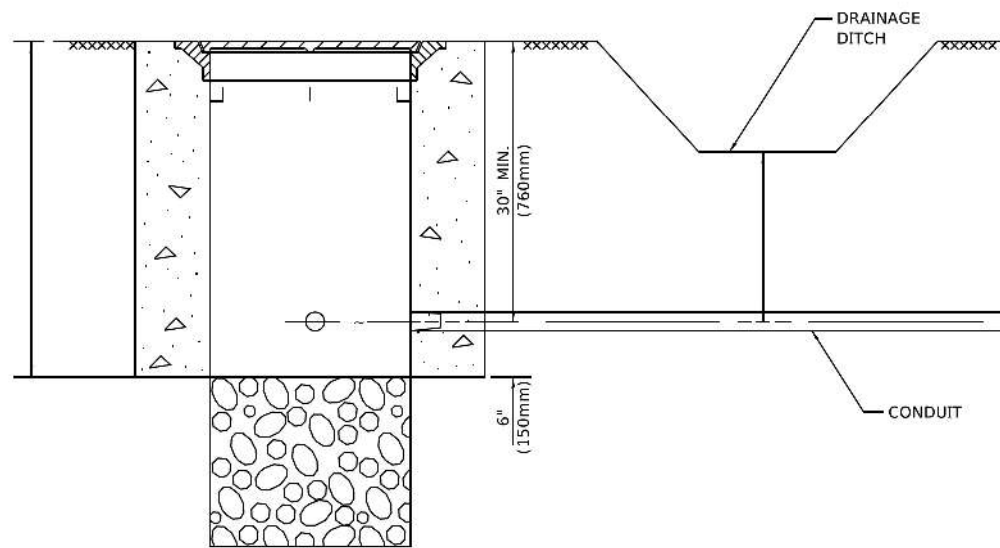
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	520

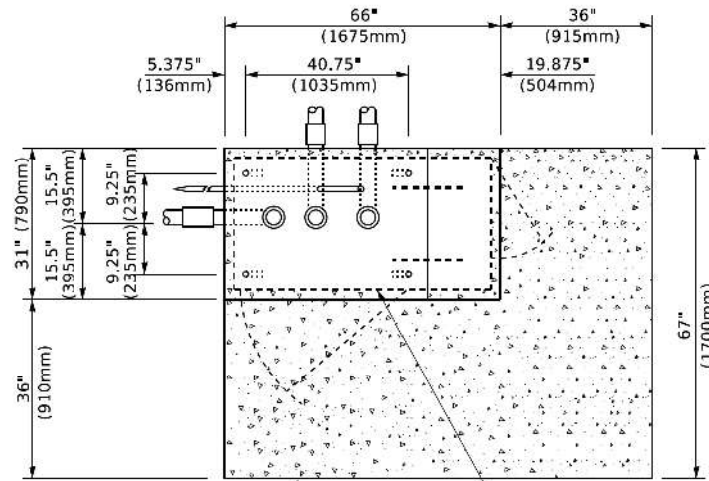
TS-05 CONTRACT NO. 62N91
ILLINOIS FED. AID PROJECT



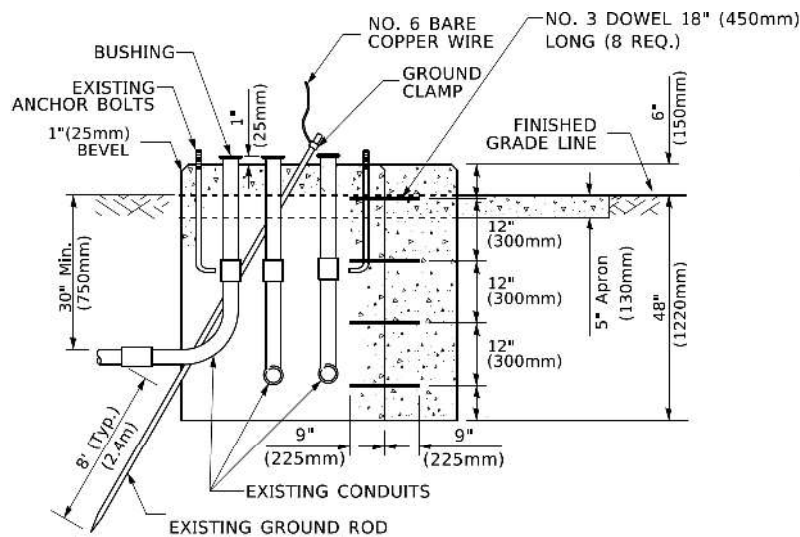
NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



TOP VIEW
(NOT TO SCALE)

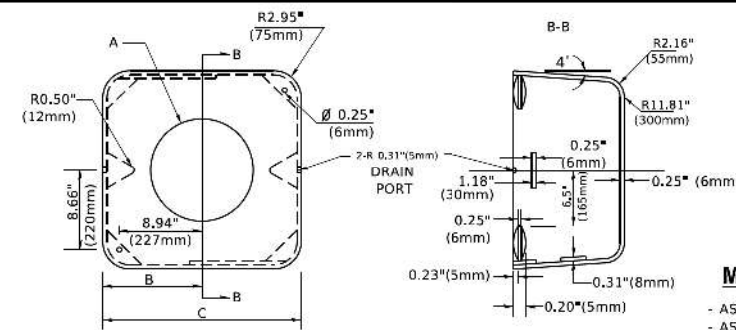


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



MATERIAL

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

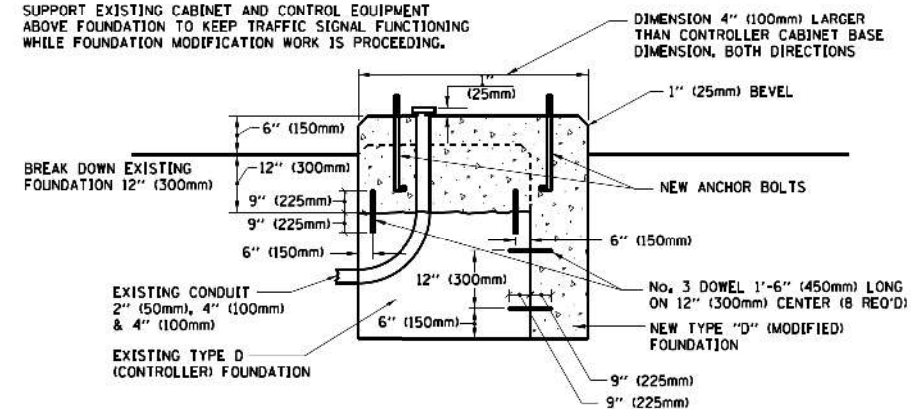
SHROUD

NOTES:

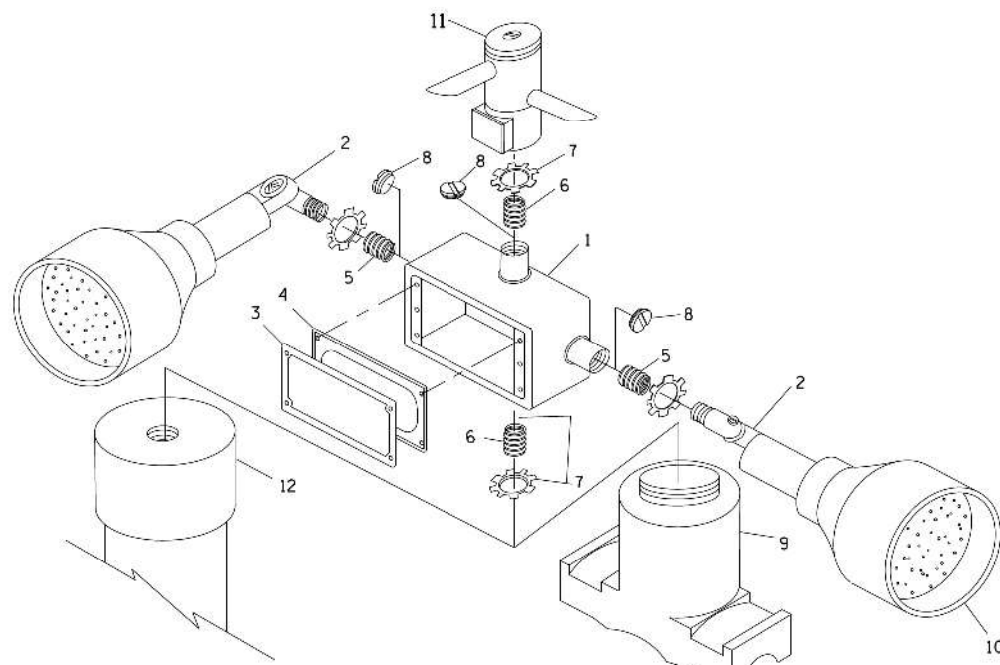
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



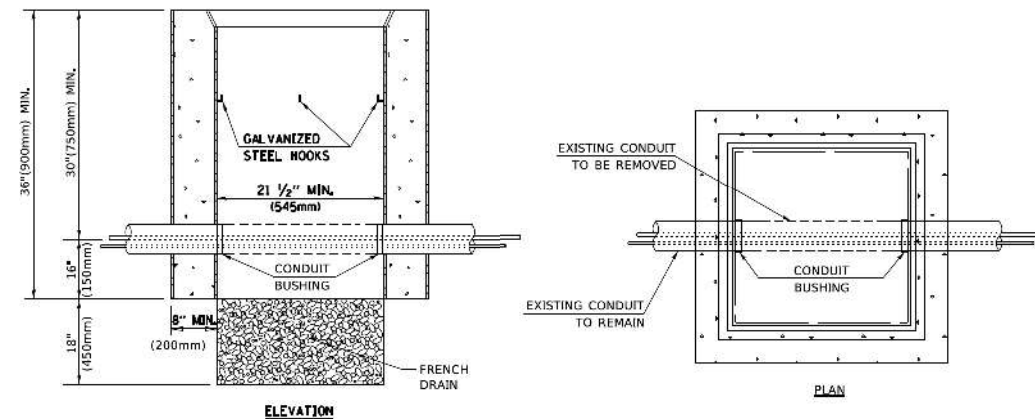
MODIFY EXISTING TYPE "D" FOUNDATION



POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 8:4001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

MODEL: D:\idm\...
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 PROJECT: ...
 DATE: 3/4/2019

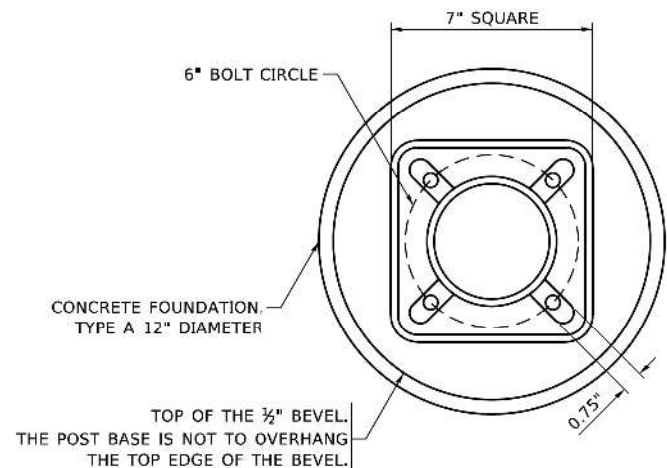
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	DATE	REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 6 OF 7 SHEETS STA. TO STA.

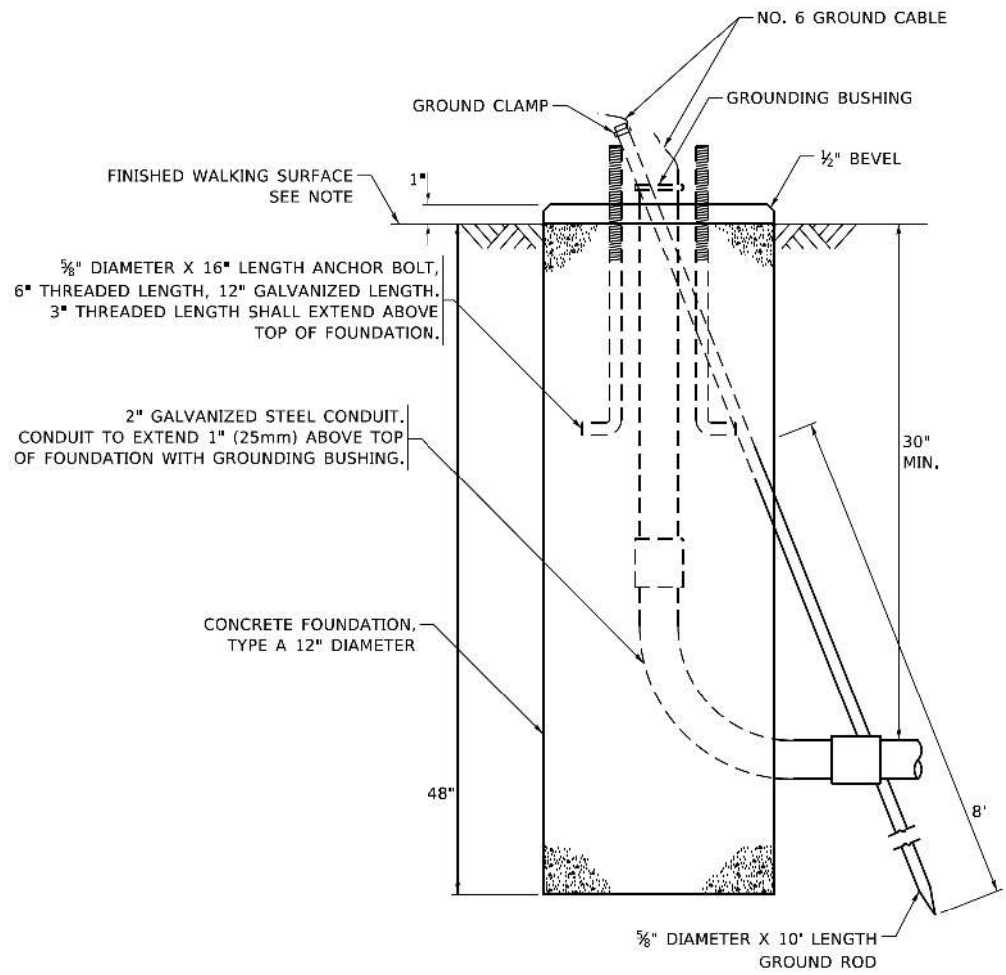
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	521
TS-05		CONTRACT NO. 62N91		
ILLINOIS FED. AID PROJECT				



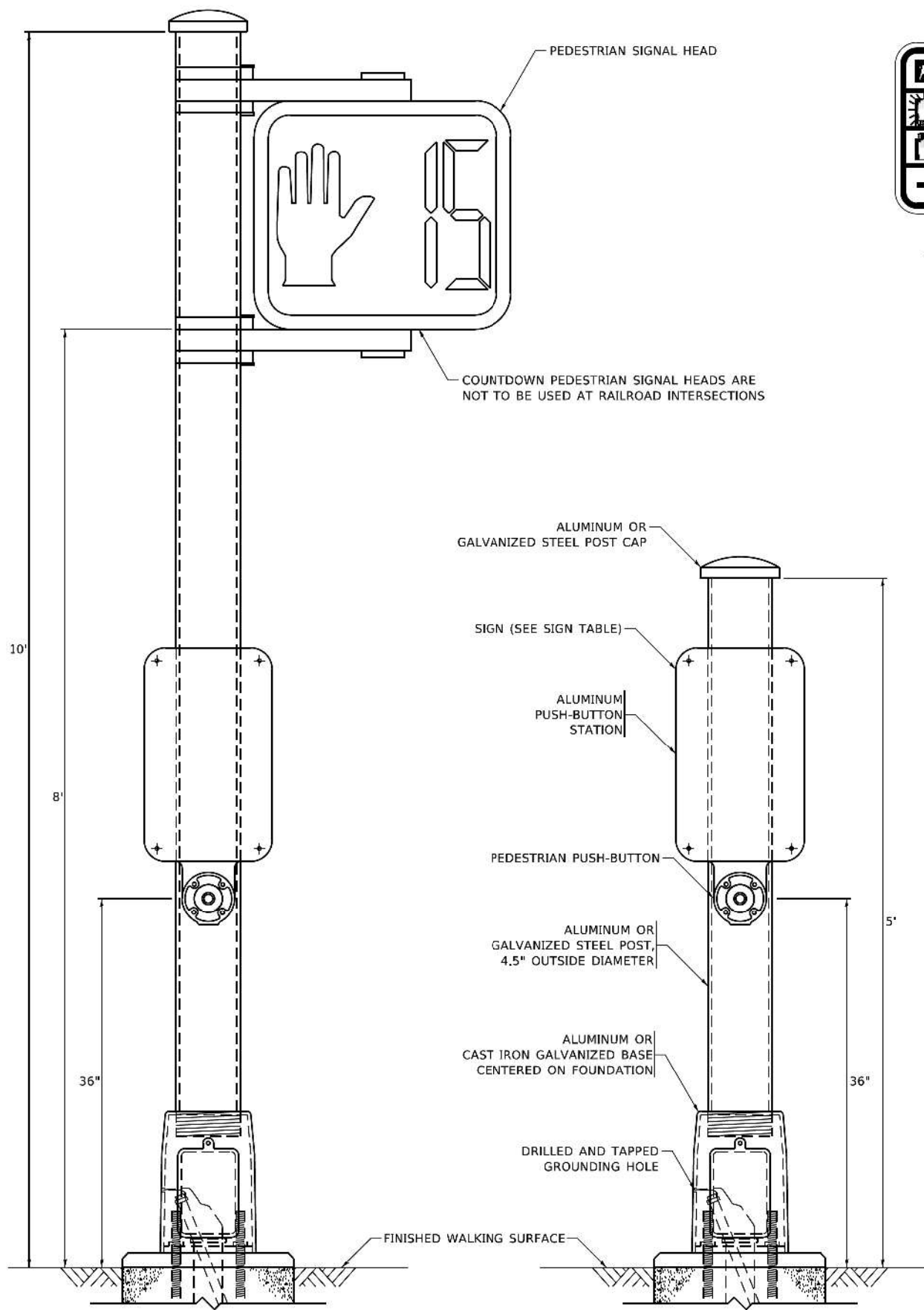
BOLT PATTERN

NOTE:

1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.

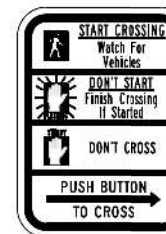


CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER

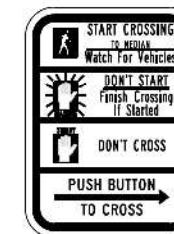


PEDESTRIAN SIGNAL POST, 10 FT.

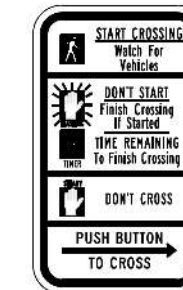
PEDESTRIAN SIGNAL POST, 5 FT.



R10-3b



R10-3d



R10-3e

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 12"

NOTES:

- THE SIGN PANELS SHALL BE TYPE AP SHEETING.
- THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
- THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

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PROJECT - 1001
DATE - 11/23/2020

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PLOT DATE = 11/23/2020	CHECKED - LP	REVISIONS -
	DATE - 10-15-2018	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 522
TS-05			CONTRACT NO. 62N91	
ILLINOIS FED. AID PROJECT				

SUMMARY OF TRAFFIC SIGNAL QUANTITIES

ITEM	UNIT	TOTAL QUANTITY	IL RTE 62 AND IL RTE 53 WEST RAMP	IL RTE 62 AND IL RTE 53 EAST RAMP	US RTE 12 AND IL RTE 53 WEST RAMP	US RTE 12 AND IL RTE 53 EAST RAMP	IL RTE 68 AND IL RTE 53 WEST RAMP	IL RTE 68 AND IL RTE 53 EAST RAMP	US 12 INTERCONNECT	IL RTE 68 INTERCONNECT
SIGN PANEL - TYPE 1	SQ FT	118.3	32.5	32.5		12.0		41.3		
SIGN PANEL - TYPE 2	SQ FT	88.8	15.0	15.0	11.3	22.5	12.5	12.5		
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	5,260	475	465	387	970	516	1,667	780	
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	1,389	378	348	57	192	139	275		
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	2,372	381	338	332	376	232	458	255	
HANDHOLE	EACH	5		1		2		2		
HEAVY-DUTY HANDHOLE	EACH	22	2	2	2	3	2	8	3	
DOUBLE HANDHOLE	EACH	1						1		
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	5		1			1		2	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	9,229							6,923	2,306
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	612			448	164				
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	4,602	722	535	1,049	1,258	490	549		
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	17,991	4,681	3,857	1,384	3,026	2,279	2,764		
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3,657	409	289	1,348	1,364		247		
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	24,306	5,278	5,771	1,602	3,942	2,260	5,453		
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2 C	FOOT	1,112			656			456		
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	92		27		28		37		
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	5,365	869	836	914	1,020	450	1,276		
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	17	3	3	1	3	3	4		
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1				1				
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	4	2		1	1				
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	2		2						
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	6	1			1	3	1		
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	2						2		
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1				1				
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1						1		
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	2	1		1					
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1		1						
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 22 FT.	EACH	1		1						
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1					1			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1		1						
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1	1							
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1				1				
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1								
CONCRETE FOUNDATION, TYPE A	FOOT	92	12	16	8	20	16	20		
CONCRETE FOUNDATION, TYPE C	FOOT	4						4		
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	70	20	30	10	10				
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	202	39	26		49	44	44		
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	28			28					
DRILL EXISTING HANDHOLE	EACH	90	23	20	17	15	14	1		
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	57	13	13	5	9	8	9		
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	31	6	6	2	5	6	6		
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	6	1	1	1	2		1		
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	3			1	2				
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6	1	1	3			1		
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5			3	2				
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6			4	2				
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	65	13	13	9	13	8	9		
INDUCTIVE LOOP DETECTOR	EACH	40	7	7	3	7	2	14		
DETECTOR LOOP, TYPE I	FOOT	2,640	152	215	323	924	123	903		
* LIGHT DETECTOR	EACH	15			4	5	3	3		
* LIGHT DETECTOR AMPLIFIER	EACH	4			1	1	1	1		
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	4	1		1	1		1		
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	6	3	3						
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	23,205	2,895	3,058	4,615	1,600	1,496		6,557	2,984
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	6	1	1	1	1	1	1		
REBUILD EXISTING HANDHOLE TO HEAVY-DUTY HANDHOLE	EACH	1						1		
REMOVE EXISTING HANDHOLE	EACH	16		1	2	1		12		
REMOVE EXISTING CONCRETE FOUNDATION	EACH	36	6	7	5	5	6	7		
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	5,387	722	535	1,476	1,615	490	549		
ROD AND CLEAN EXISTING CONDUIT	FOOT	5,183							3,986	1,197
CENTRACS LICENSE EXPANSION	EACH	4			1	1	1	1		
TERMINAL SERVER	EACH	2				1	1			
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1						1		
OUTDOOR RATED NETWORK CABLE	FOOT	978	115	337	218	227	81			
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	5		1	1	1	1	1		
REMOTE CONTROLLED VIDEO SYSTEM	EACH	3			1	1	1			
LAYER II (DATALINK) SWITCH	EACH	4			1	1	1	1		
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	3			1	1	1			
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	3			3					
RELOCATE EXISTING PTZ CAMERA	EACH	2	1	1						
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1				1				
ELECTRIC METER	EACH	1	1							
UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1						1		
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F 5M24F	FOOT	9,273							6,923	2,350
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	5			1	1	2	1		
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6			4	2				
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16			12	4				
LED SIGNAL FACE, LENS COVER	EACH	108	21	21	15	20	14	17		
* CONFIRMATION BEACON	EACH	6	3	3						
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	2			1	1				
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	6	1	1	1	1	1	1		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 44 FT. AND 26 FT.	EACH	1								

*100% COST TO LOCAL AGENCY

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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

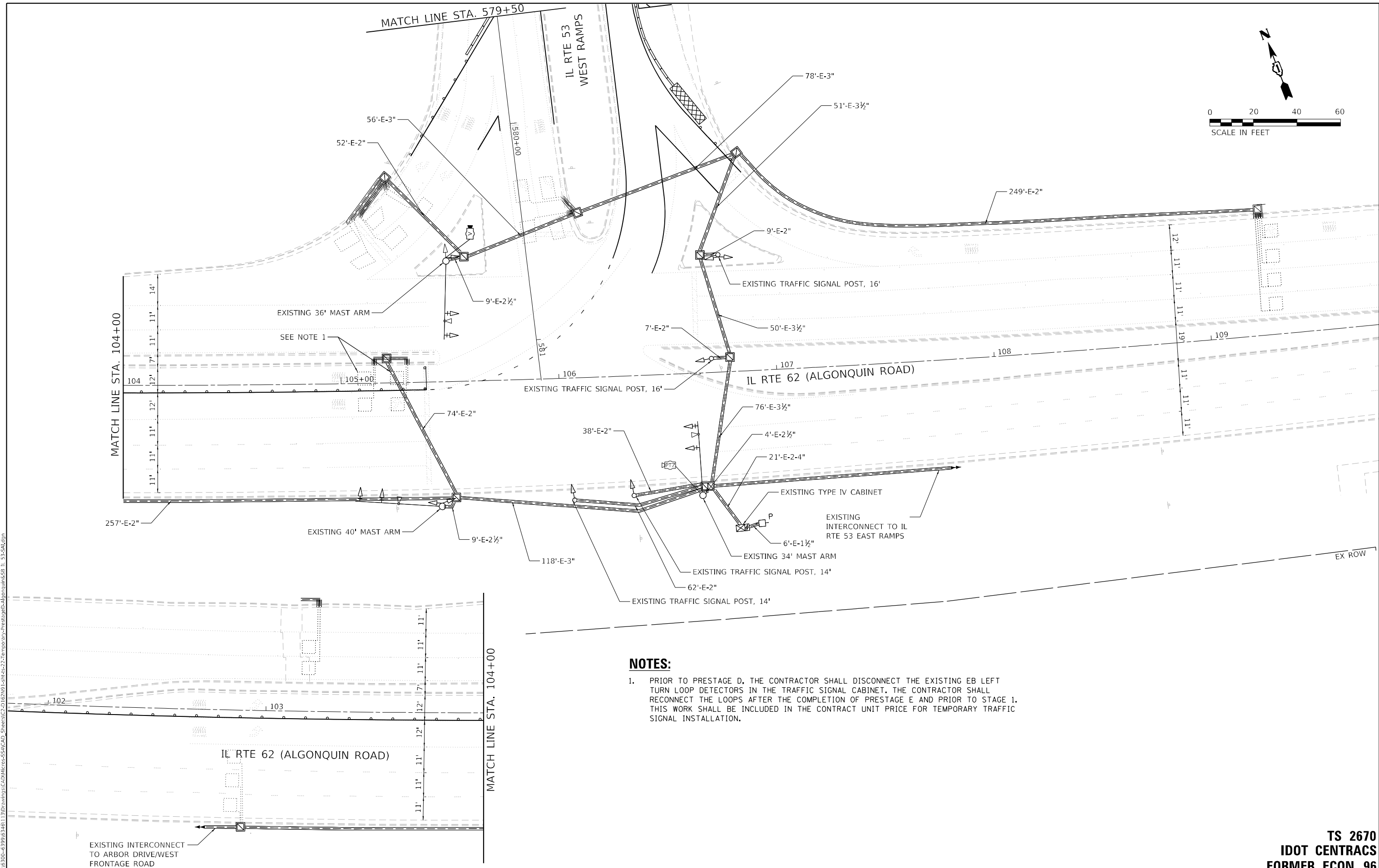
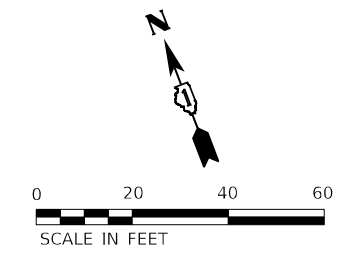
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL SCHEDULE

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	524
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



NOTES:

1. PRIOR TO PRESTAGE D, THE CONTRACTOR SHALL DISCONNECT THE EXISTING EB LEFT TURN LOOP DETECTORS IN THE TRAFFIC SIGNAL CABINET. THE CONTRACTOR SHALL RECONNECT THE LOOPS AFTER THE COMPLETION OF PRESTAGE E AND PRIOR TO STAGE 1. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION.

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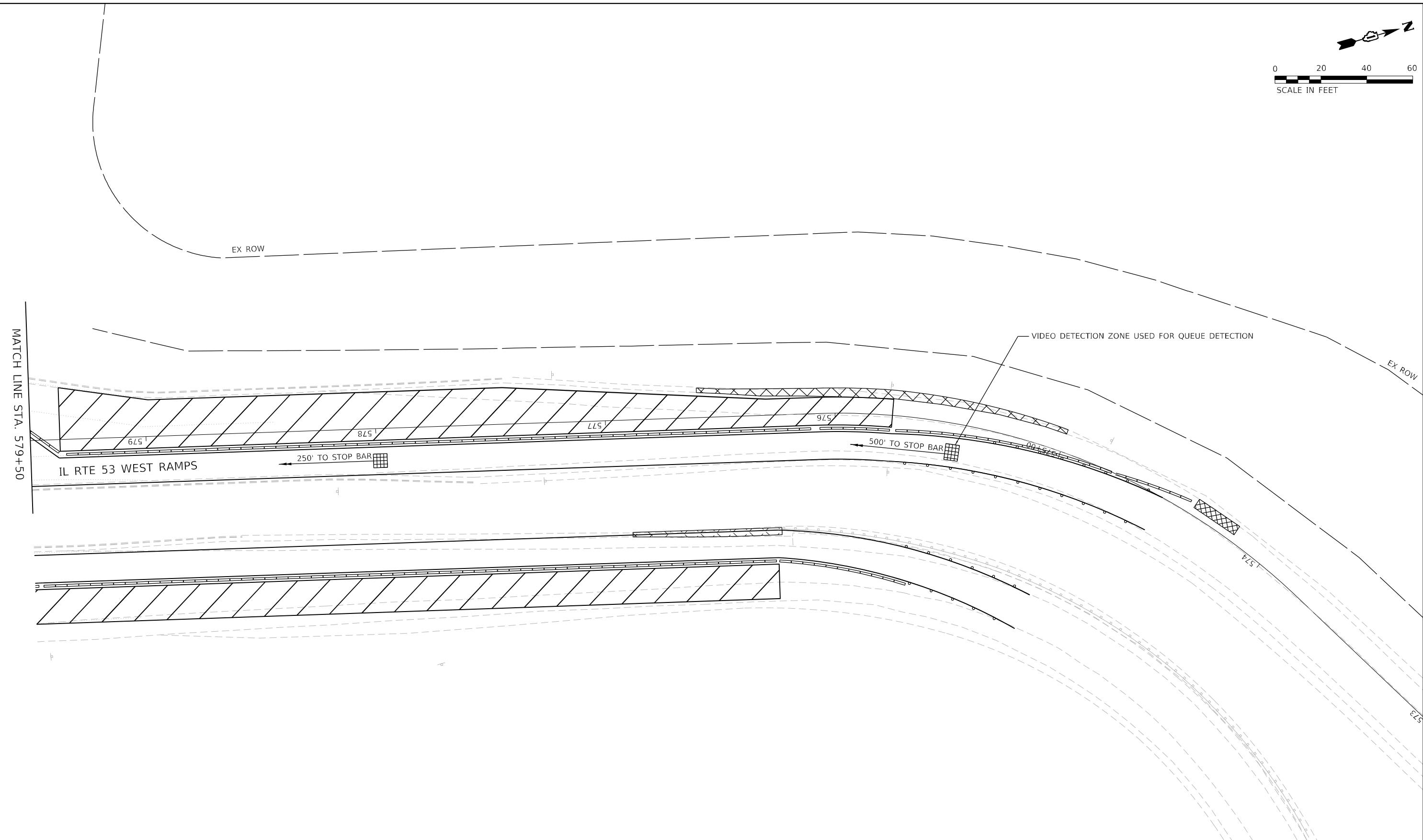
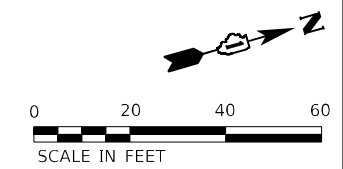
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRESTAGE D TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
IL RTE 62 (ALGONQUIN ROAD) AT IL RTE 53 WEST RAMPS

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 524A
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

TS 2670
IDOT CENTRACS
FORMER ECON 96

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



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TS 2670
IDOT CENTRACS
FORMER ECON 96



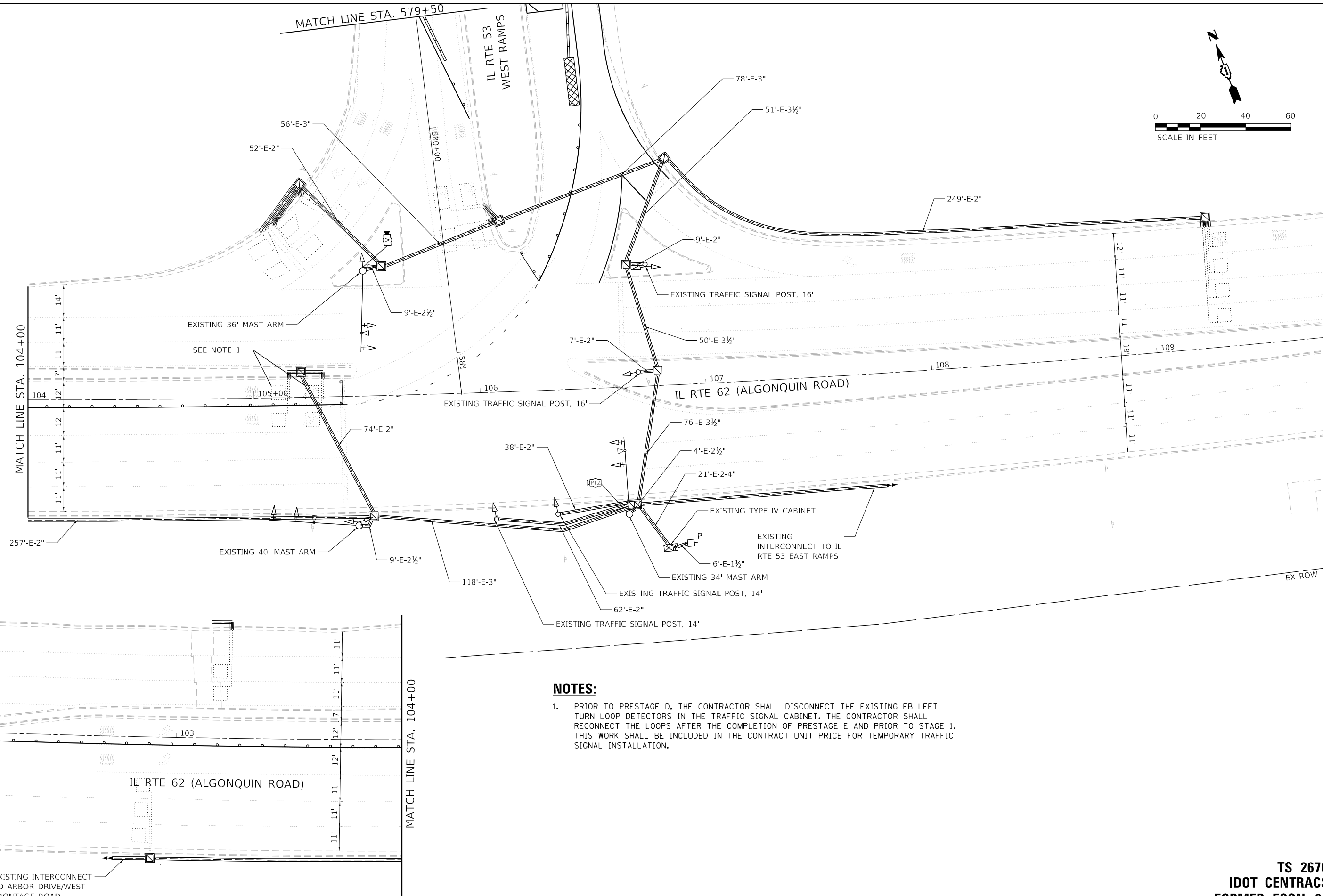
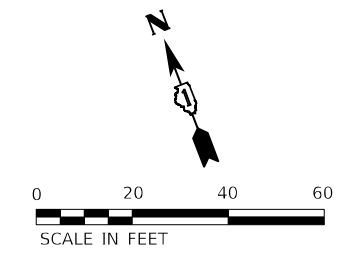
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

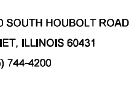
PRESTAGE D TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
IL RTE 62 (ALGONQUIN ROAD) AT IL RTE 53 WEST RAMPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	524B
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



NOTES:
 1. PRIOR TO PRESTAGE D, THE CONTRACTOR SHALL DISCONNECT THE EXISTING EB LEFT TURN LOOP DETECTORS IN THE TRAFFIC SIGNAL CABINET. THE CONTRACTOR SHALL RECONNECT THE LOOPS AFTER THE COMPLETION OF PRESTAGE E AND PRIOR TO STAGE 1. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION.



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

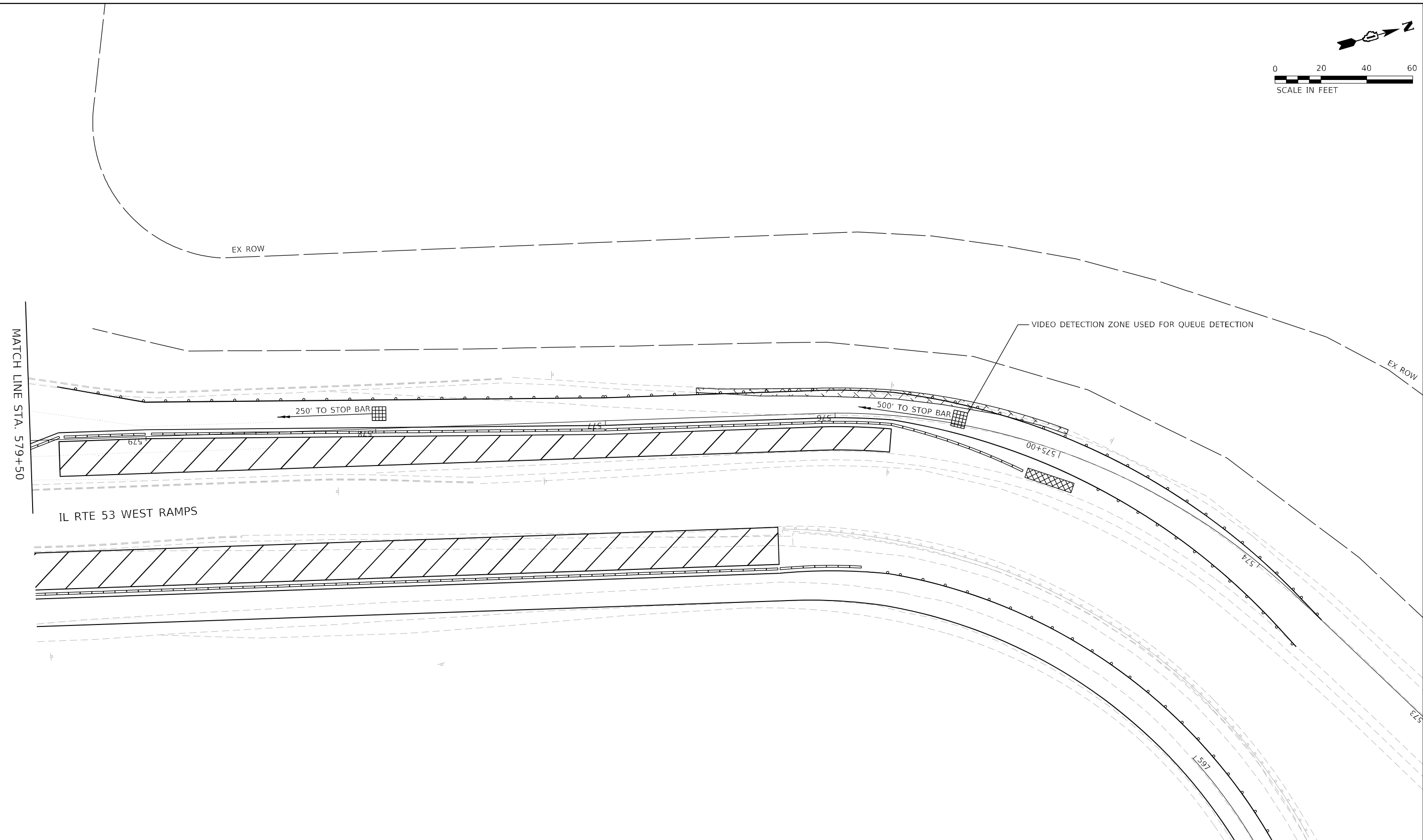
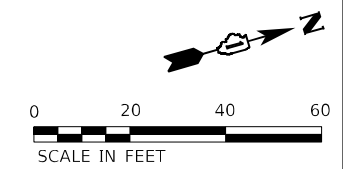
**PRESTAGE E TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
 IL RTE 62 (ALGONQUIN ROAD) AT IL RTE 53 WEST RAMPS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	524C
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N91	

**TS 2670
 IDOT CENTRACS
 FORMER ECON 96**

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TS 2670
IDOT CENTRACS
FORMER ECON 96



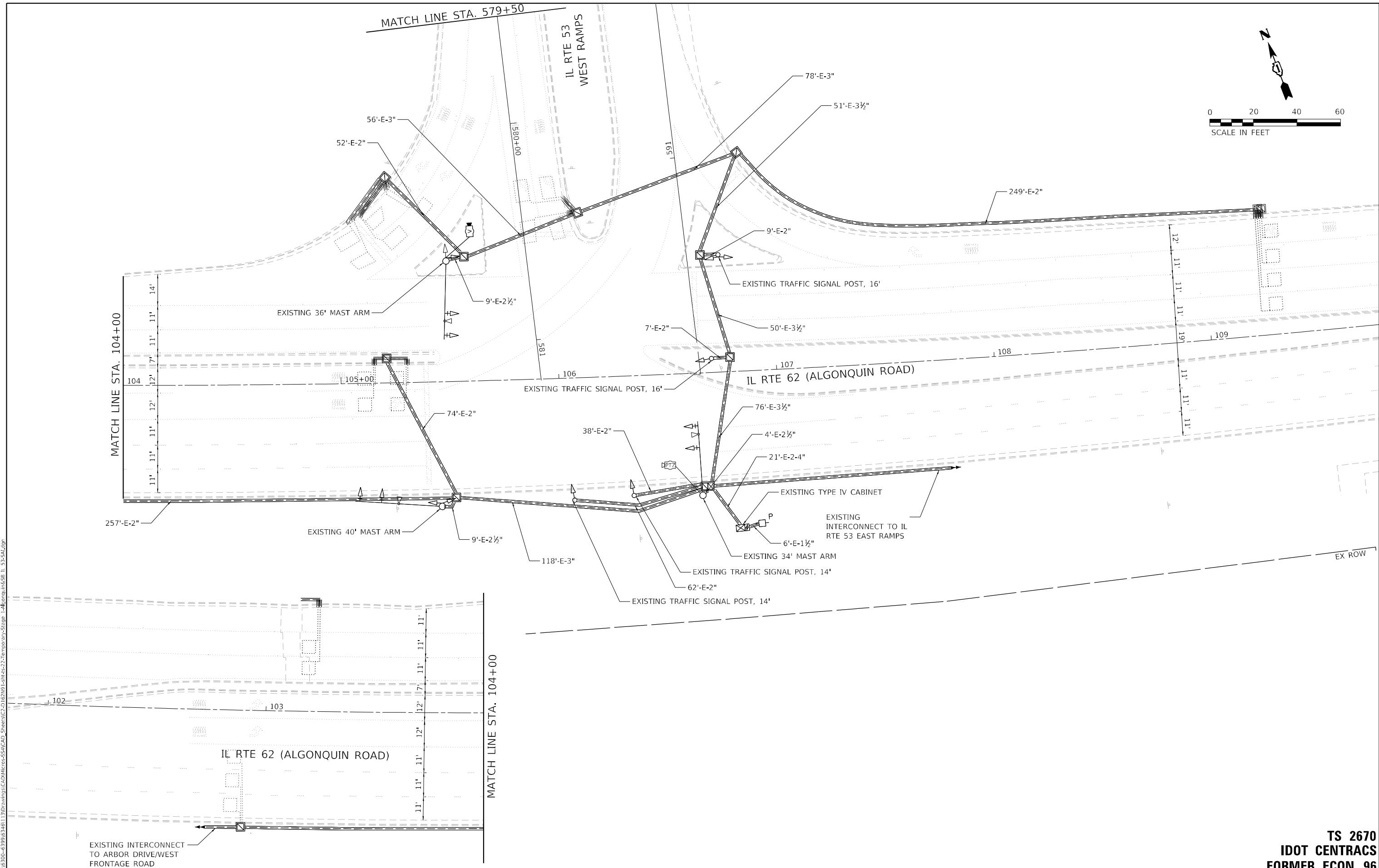
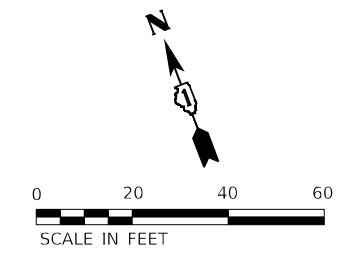
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PLOT DATE = 1/22/2025	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRESTAGE E TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
IL RTE 62 (ALGONQUIN ROAD) AT IL RTE 53 WEST RAMPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	524D
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



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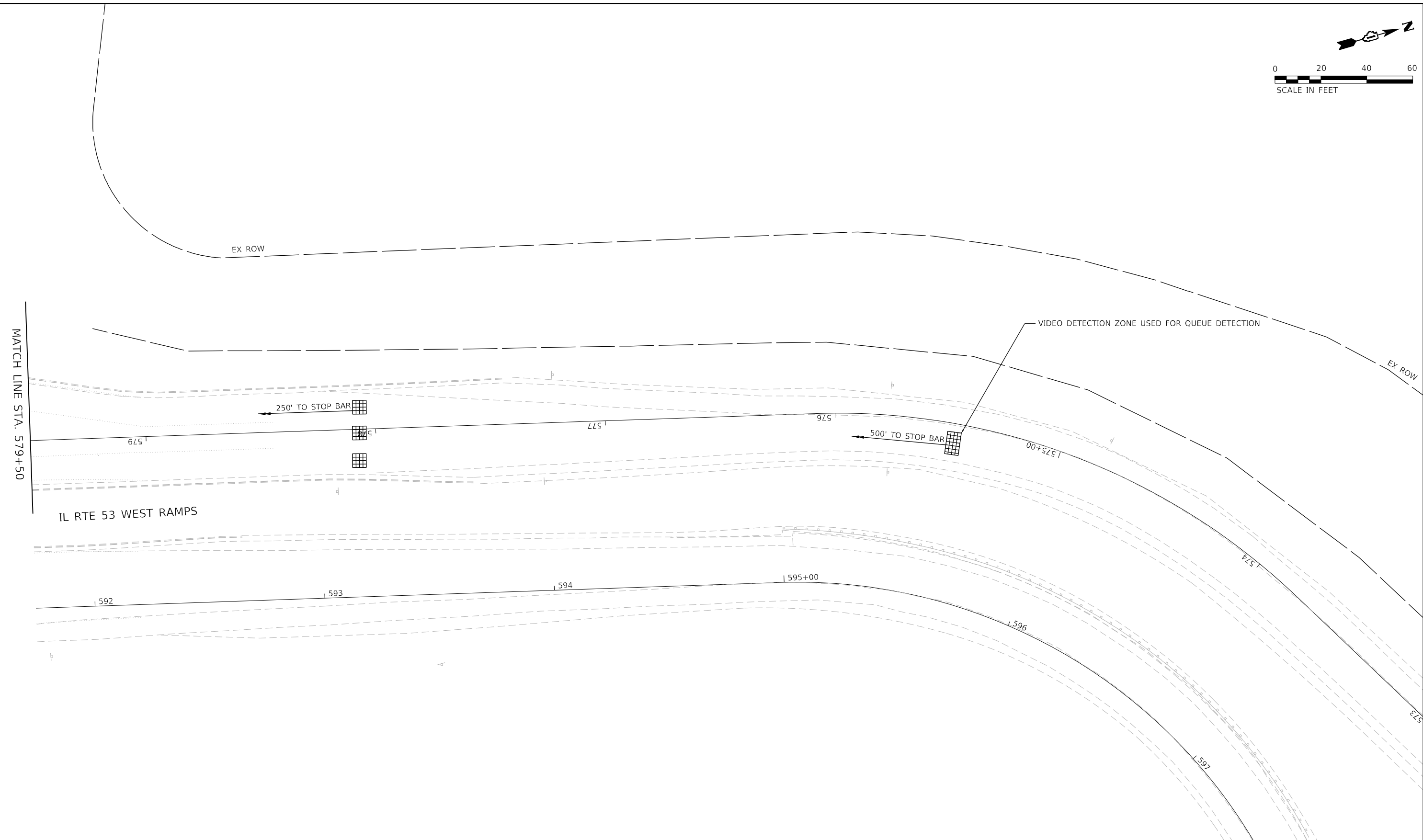
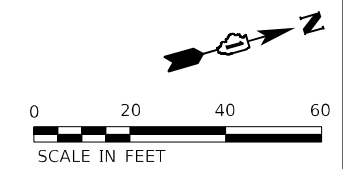
TS 2670
IDOT CENTRACS
FORMER ECON 96

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
IL RTE 62 (ALGONQUIN ROAD) AT IL RTE 53 WEST RAMPS
 SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	524E
CONTRACT NO. 62N91			ILLINOIS FED. AID PROJECT	

1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = AlexAM PLOT SCALE = 40,0000 * / in. PLOT DATE = 1/22/2025	DESIGNED - RRS DRAWN - ACM CHECKED - KRH DATE - 12/13/24	REVISED - REVISED - REVISED - REVISED -
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TS 2670
IDOT CENTRACS
FORMER ECON 96



USER NAME = AlexAM	DESIGNED - RRS	REVISED -
DRAWN - ACM	REVISIONS -	
PLOT SCALE = 40,0000 * / in.	CHECKED - KRH	REVISED -
PLOT DATE = 1/22/2025	DATE - 12/13/24	REVISED -

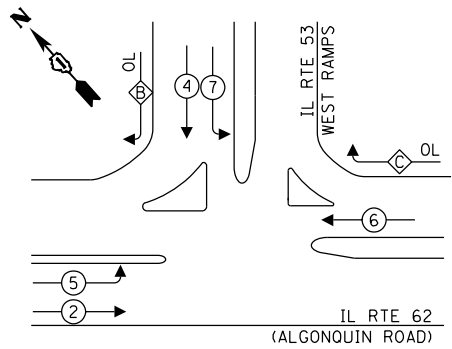
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
IL RTE 62 (ALGONQUIN ROAD) AT IL RTE 53 WEST RAMPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	524F
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

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

EXISTING AND TEMPORARY CONTROLLER SEQUENCE



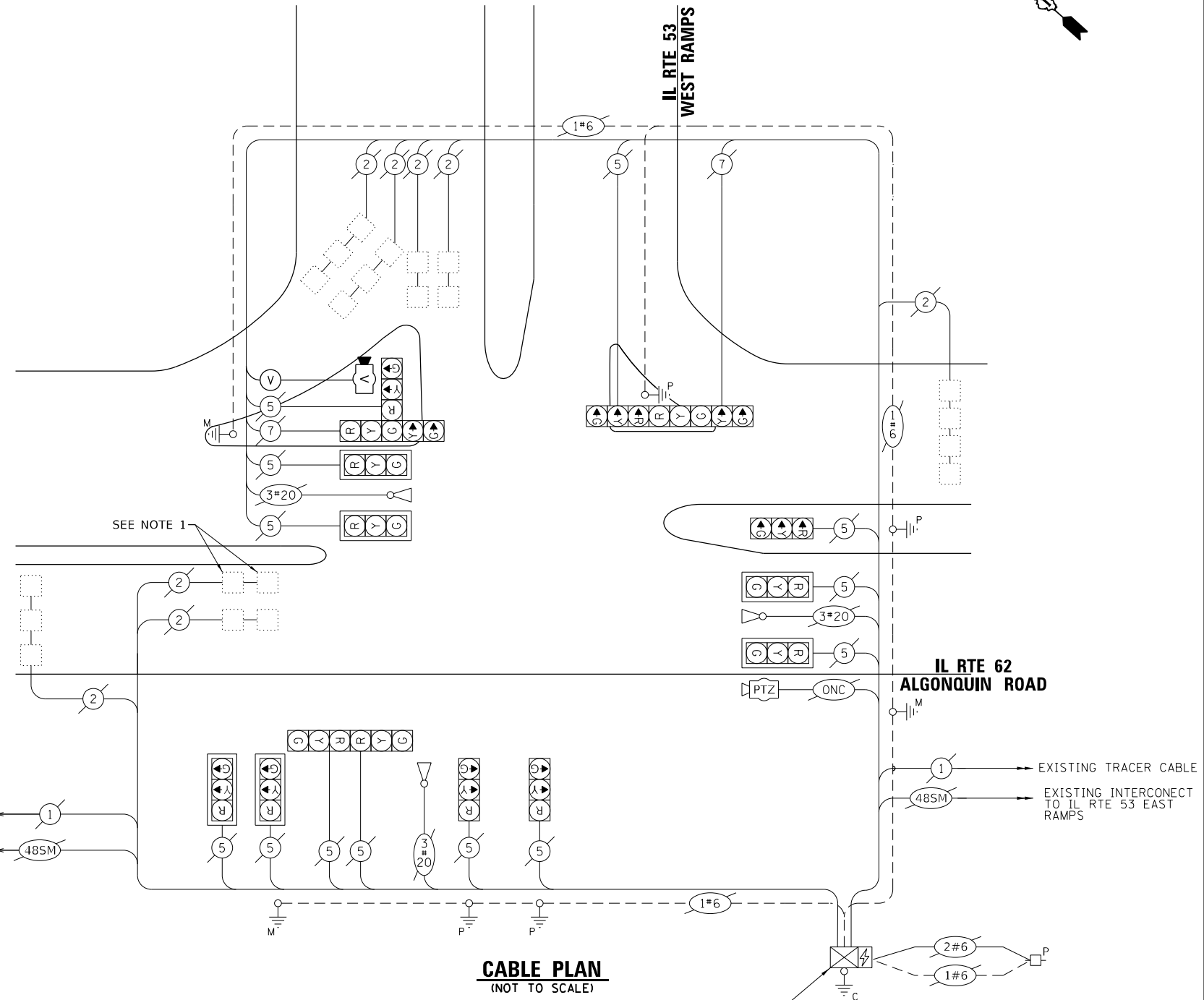
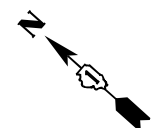
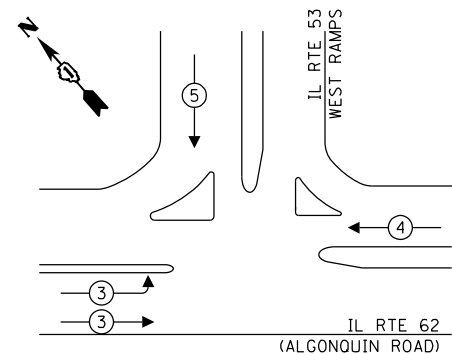
LEGEND:

- ← ⊛ ← PROTECTED PHASE
- ← ⊛ ← PROTECTED/PERMITTED PHASE
- ← ⊛ → PEDESTRIAN PHASE
- ← ⊛ OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
C	= 6	+ 4

EXISTING AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN
(NOT TO SCALE)

NOTES:

- PRIOR TO PRESTAGE D, THE CONTRACTOR SHALL DISCONNECT THE EXISTING EB LEFT TURN LOOP DETECTORS IN THE TRAFFIC SIGNAL CABINET. THE CONTRACTOR SHALL RECONNECT THE LOOPS AFTER THE COMPLETION OF PRESTAGE E AND PRIOR TO STAGE 1. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION.

TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
1 OR 3 - SECTION	12	11	132
4 - SECTION		14	
5 - SECTION	2	13	26
PROGRAMMABLE SIGNALS			
3 - SECTION		22	
4 - SECTION		32	
5 - SECTION		28	
PED. SIGNAL CONTROLLER	1	150	150
MASTER CONTROLLER		100	
UPS			
DETECTION RADAR OR VIDEO	1	25	25
BLANK-OUT SIGN		20	
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM		15	
PTZ CAMERA	1	75	75
TOTAL UPS SIZING			
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER		15	
LED STREET NAME SIGN		120	
LUMINAIRE		240	
TOTAL SERVICE WIRE SIZING			1068

ENERGY COSTS TO:
VILLAGE OF SCHAUMBURG
101 SCHAUMBURG COURT
SCHAUMBURG, IL 60193-1878

ENERGY SUPPLY: CONTACT: JAMES CAMPBELL
PHONE: (630) 940-6805
COMPANY: COMED
ACCOUNT NUMBER: 6831011222
METER NUMBER:

MODEL: D:\p4\h... FILE NAME: S:\00... 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200

USER NAME = AlexAM	DESIGNED - RRS	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN - ACM	REVISED -
PLOT DATE = 1/22/2025	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

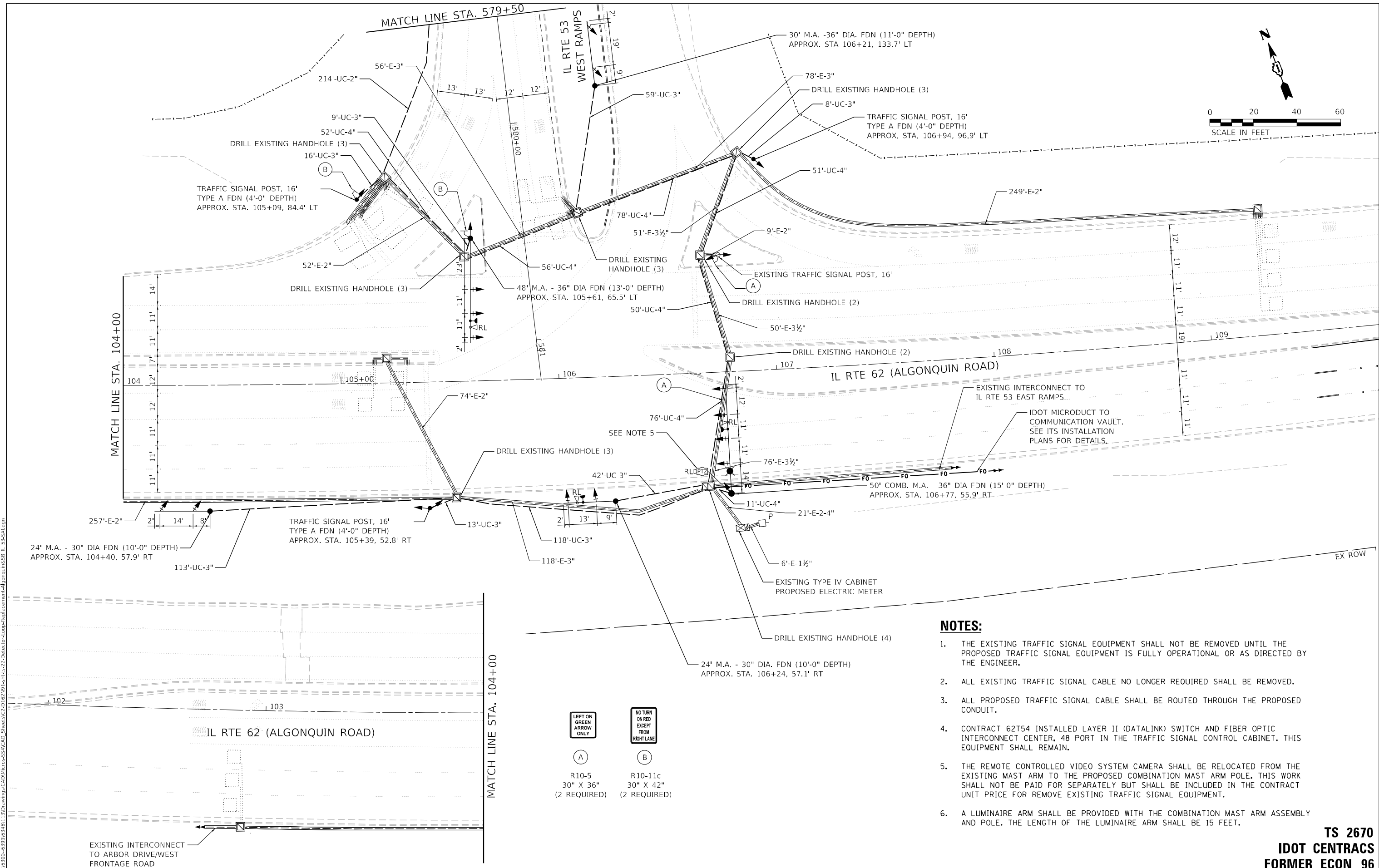
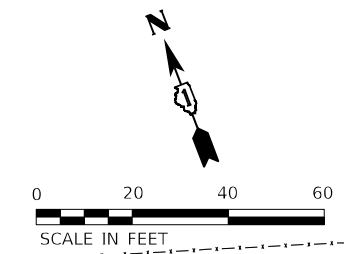
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 62 (ALGONQUIN ROAD) AND IL RTE 53 WEST RAMP

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

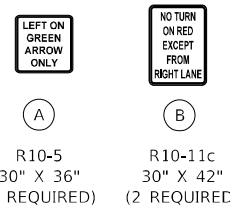
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	524G
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

TS 2670
IDOT CENTRACS
FORMER ECON 96



NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
4. CONTRACT 62T54 INSTALLED LAYER II (DATALINK) SWITCH AND FIBER OPTIC INTERCONNECT CENTER, 48 PORT IN THE TRAFFIC SIGNAL CONTROL CABINET. THIS EQUIPMENT SHALL REMAIN.
5. THE REMOTE CONTROLLED VIDEO SYSTEM CAMERA SHALL BE RELOCATED FROM THE EXISTING MAST ARM TO THE PROPOSED COMBINATION MAST ARM POLE. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.
6. A LUMINAIRE ARM SHALL BE PROVIDED WITH THE COMBINATION MAST ARM ASSEMBLY AND POLE. THE LENGTH OF THE LUMINAIRE ARM SHALL BE 15 FEET.



TS 2670
IDOT CONTRACS
FORMER ECON 96

MODEL: D:\p1\1170 South Houbolt Road\CD\MicroStation\SSA\CAD_Sheets\CAD_MicroStation\SSA\CAD_Sheets\2022\DirectLoc\Loop-Replacement-Algonquin\62B_11_53-5A.dgn
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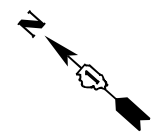


USER NAME = AlexAM	DESIGNED - RRS	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - ACM	REVISED -
PLOT DATE = 12/12/2024	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

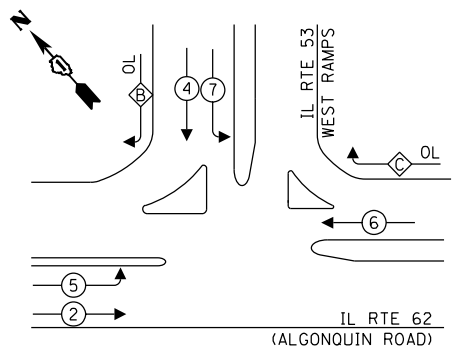
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLANS
IL RTE 62 (ALGONQUIN ROAD) AT IL RTE 53 WEST RAMPS
 SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 526
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



EXISTING AND PROPOSED CONTROLLER SEQUENCE

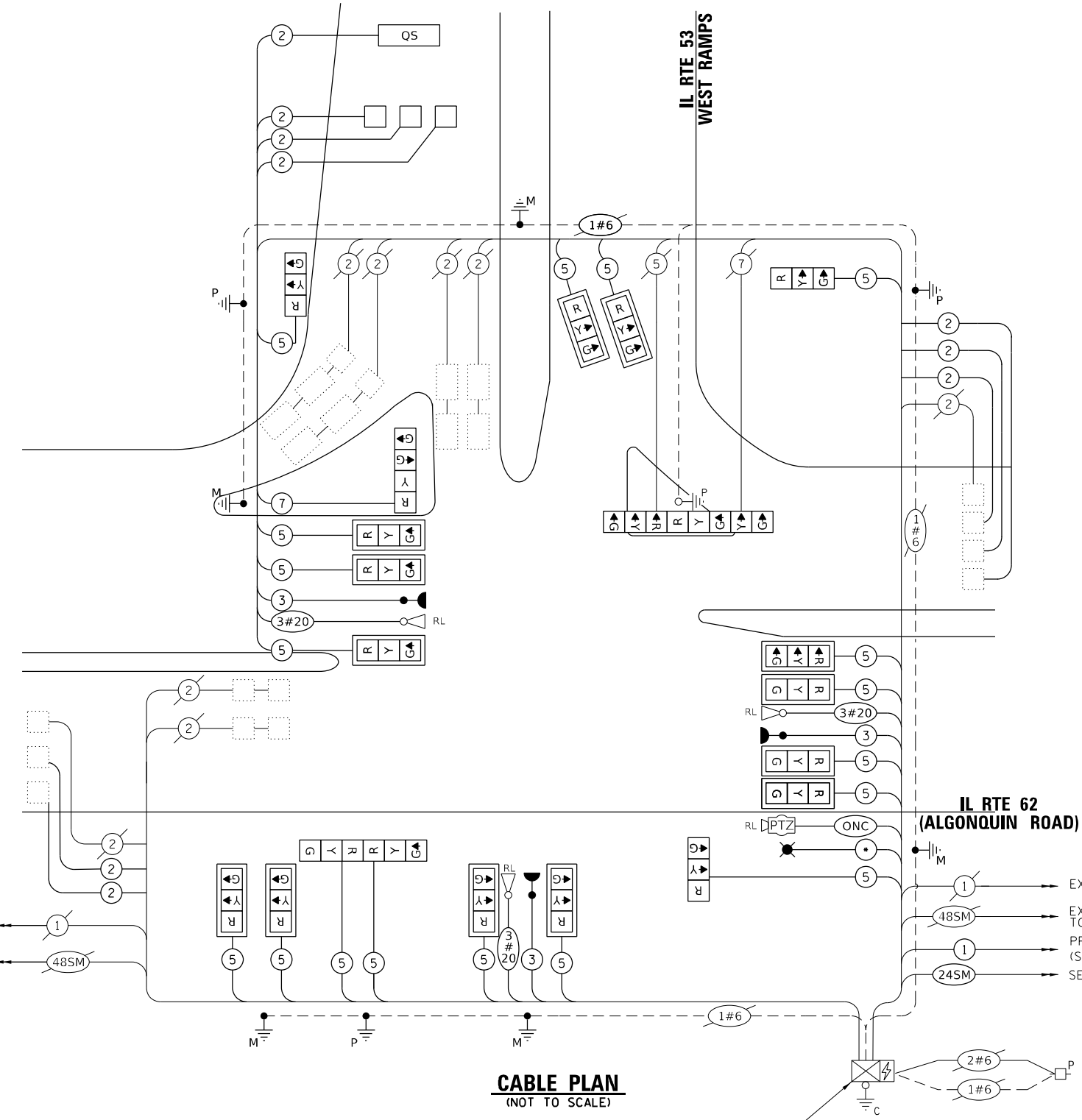
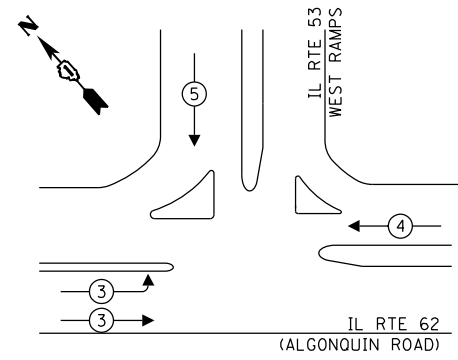


- LEGEND:**
- ← (⊛) ← PROTECTED PHASE
 - ← (⊙) ← PROTECTED/PERMITTED PHASE
 - ← (⊙) → PEDESTRIAN PHASE
 - ← (⊛) ← OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
C	= 6	+ 4

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN
(NOT TO SCALE)

• - SEE ROADWAY LIGHTING PLAN

EXISTING TYPE IV CABINET
PROPOSED ELECTRIC METER

- 1 → EXISTING TRACER CABLE
- 48SM → EXISTING INTERCONNECT TO IL RTE 53 EAST RAMP
- 1 → PROPOSED TRACER CABLE (SEE ITS DRAWINGS)
- 24SM → SEE ITS DRAWINGS

MODEL: D:\p1\1170S\1170S.dwg; FILE NAME: S:\1170S\1170S.dwg; USER: JCR; DATE: 12/12/2024

TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
1 OR 3 - SECTION	19	11	209
4 - SECTION	1	14	14
5 - SECTION	1	13	13
PROGRAMMABLE SIGNALS			
3 - SECTION		22	
4 - SECTION		32	
5 - SECTION		28	
PED. SIGNAL			
		15	
CONTROLLER			
1		150	150
MASTER CONTROLLER			
		100	
UPS			
1		25	25
DETECTION RADAR OR VIDEO			
		20	
BLANK-OUT SIGN			
		25	
NETWORK SWITCH II OR III			
1		35	35
CELLULAR MODEM			
		15	
PTZ CAMERA			
1		75	75
TOTAL UPS SIZING			
		521	
UPS CHARGING			
1		225	225
BATTERY HEATER MAT			
1		180	180
CABINET HEATER			
1		200	200
FLASHER			
		15	
LED STREET NAME SIGN			
		120	
LUMINAIRE			
1		240	240
TOTAL SERVICE WIRE SIZING			
		1366	

ENERGY COSTS TO:
VILLAGE OF SCHAUMBURG
101 SCHAUMBURG COURT
SCHAUMBURG, IL 60193-1878

ENERGY SUPPLY: CONTACT: JAMES CAMPBELL
PHONE: (630) 940-6805
COMPANY: COMED
ACCOUNT NUMBER: 6831011222
METER NUMBER:



USER NAME = AlexAM	DESIGNED - RRS	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN - ACM	REVISED -
PLOT DATE = 12/12/2024	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 62 (ALGONQUIN ROAD) AND IL RTE 53 WEST RAMP

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

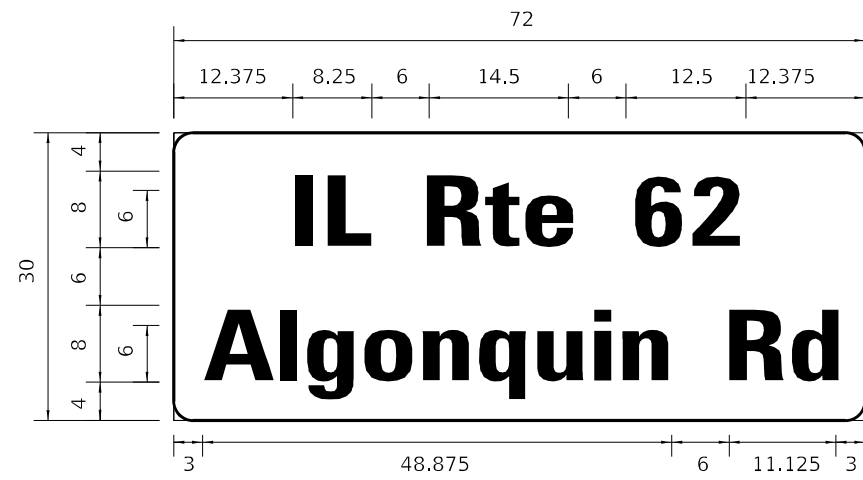
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	528
CONTRACT NO. 62N91				

TS 2670
IDOT CENTRACS
FORMER ECON 96

ILLINOIS FED. AID PROJECT

SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	15	2	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	32.5
SIGN PANEL - TYPE 2	SQ FT	15.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	475
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	378
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	381
HEAVY-DUTY HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	722
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4,681
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	409
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5,278
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	869
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	39
DRILL EXISTING HANDHOLE	EACH	23
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	13
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	13
INDUCTIVE LOOP DETECTOR	EACH	7
DETECTOR LOOP, TYPE I	FOOT	152
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
*RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,895
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
*EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	722
OUTDOOR RATED NETWORK CABLE	FOOT	115
RELOCATE EXISTING PTZ CAMERA	EACH	1
ELECTRIC METER	EACH	1
LED SIGNAL FACE, LENS COVER	EACH	21
*CONFIRMATION BEACON	EACH	3
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

*100% COST TO THE CITY OF ROLLING MEADOWS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL RTE 62 (ALGONQUIN RD) AND IL RTE 53 WEST RAMPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	529
				CONTRACT NO. 62N91
		ILLINOIS	FED. AID PROJECT	

TS 2670
IDOT CENTRACS
FORMER ECON 96

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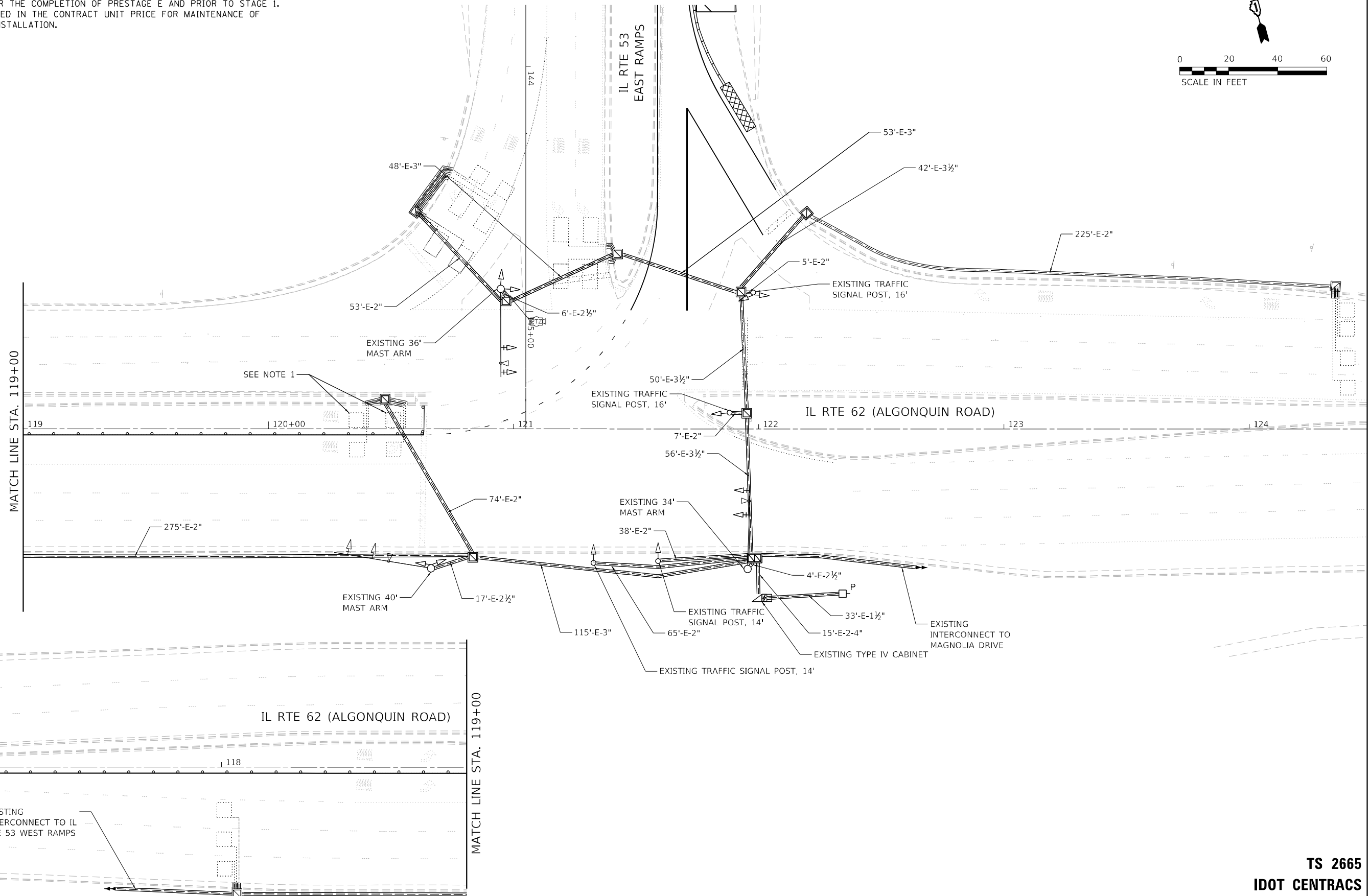


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PLOT SCALE = 40,0000 * / in.	DRAWN - ACM	REVISED -
PLOT DATE = 1/22/2025	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -



NOTES:

- 1. PRIOR TO PRESTAGE D, THE CONTRACTOR SHALL DISCONNECT THE EXISTING EB LEFT TURN LOOP DETECTORS IN THE TRAFFIC SIGNAL CABINET. THE CONTRACTOR SHALL RECONNECT THE LOOPS AFTER THE COMPLETION OF PRESTAGE E AND PRIOR TO STAGE 1. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION.



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TS 2665
IDOT CENTRACS
FORMER ECON 96



USER NAME = AlexAM	DESIGNED - RRS	REVISED -
DRAWN - ACM	REVISIONS -	
PLOT SCALE = 40,0000 * / in.	CHECKED - KRH	REVISED -
PLOT DATE = 1/22/2025	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRESTAGE D AND PRESTAGE E TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
IL RTE 62 (ALGONQUIN ROAD) AT IL RTE 53 EAST RAMP

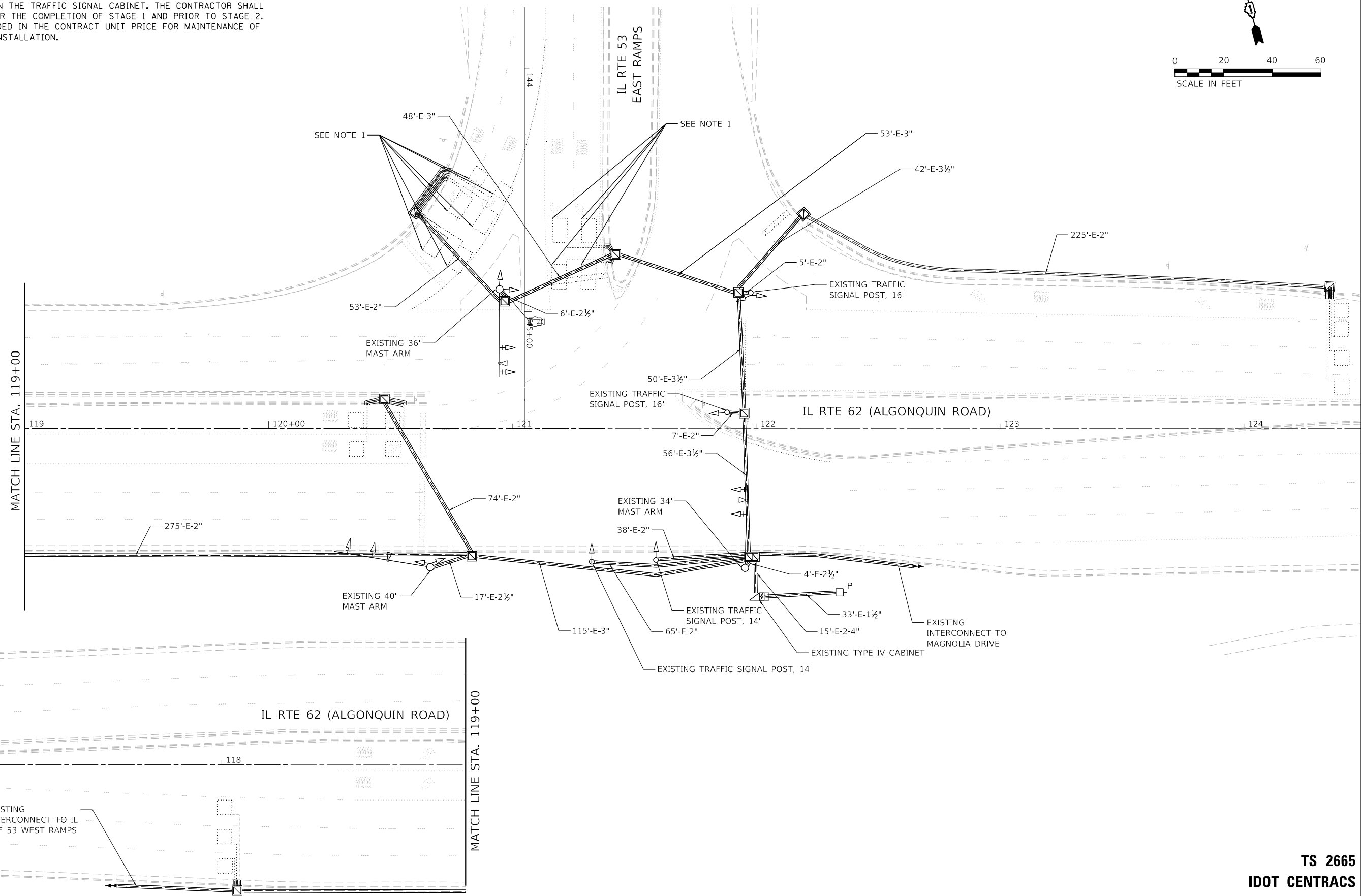
SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	529A
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



NOTES:

1. IL RTE 53 NB EXIT RAMP AT ALGONQUIN ROAD WILL BE CLOSED DURING STAGE 1. PRIOR TO STAGE 1, THE CONTRACTOR SHALL DISCONNECT THE EXISTING NB EXIT RAMP UPTIGHT LOOP DETECTORS IN THE TRAFFIC SIGNAL CABINET. THE CONTRACTOR SHALL RECONNECT THE LOOPS AFTER THE COMPLETION OF STAGE 1 AND PRIOR TO STAGE 2. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION.



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TS 2665
IDOT CENTRACS
FORMER ECON 96



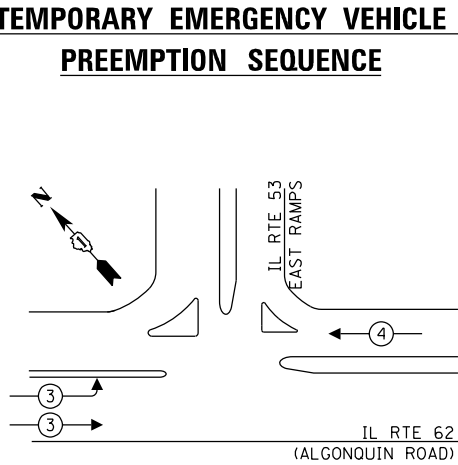
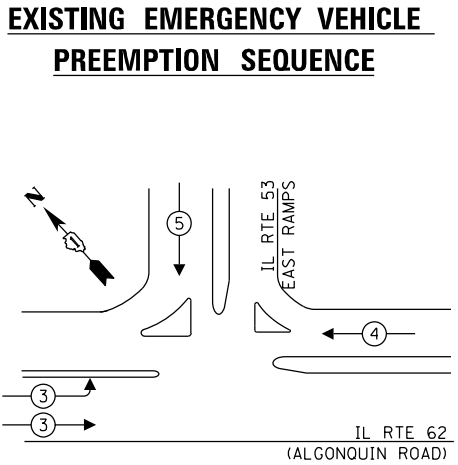
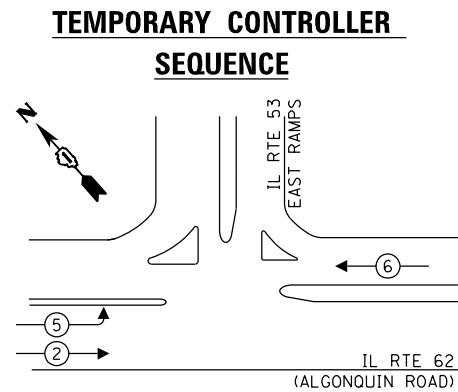
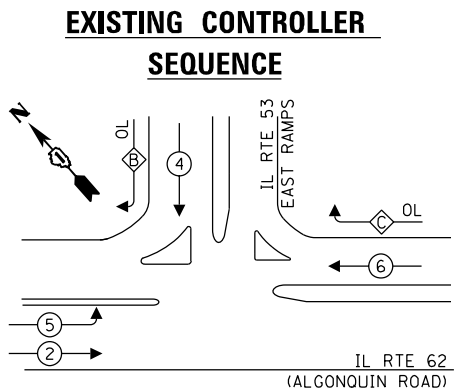
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DRAWN - ACM	REVISOR -	
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PLOT DATE = 1/22/2025	DATE - 12/13/24	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

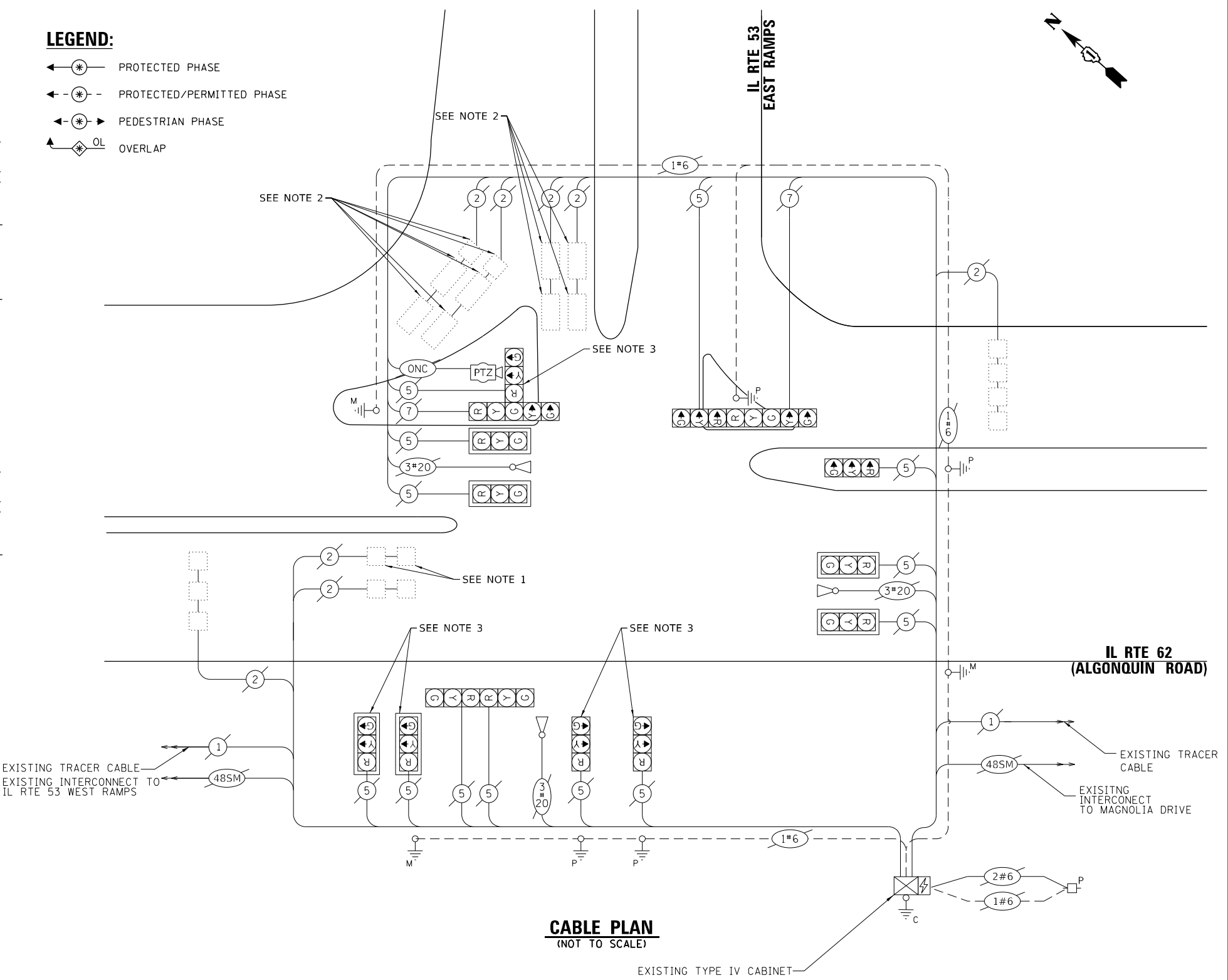
STAGE 1 TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
IL RTE 62 (ALGONQUIN ROAD) AT IL RTE 53 EAST RAMP

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	529B
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

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



- ### LEGEND:
- ← ⊛ → PROTECTED PHASE
 - ← ⊛ - PROTECTED/PERMITTED PHASE
 - ← ⊛ → PEDESTRIAN PHASE
 - ← ⊛ OL → OVERLAP



- ### NOTES:
- PRIOR TO PRESTAGE D, THE CONTRACTOR SHALL DISCONNECT THE EXISTING EB LEFT TURN LOOP DETECTORS IN THE TRAFFIC SIGNAL CABINET. THE CONTRACTOR SHALL RECONNECT THE LOOPS AFTER THE COMPLETION OF PRESTAGE E AND PRIOR TO STAGE 1. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION.
 - IL RTE 53 NB EXIT RAMP AT ALGONQUIN ROAD WILL BE CLOSED DURING STAGE 1. PRIOR TO STAGE 1, THE CONTRACTOR SHALL DISCONNECT THE EXISTING NB EXIT RAMP UPTIGHT LOOP DETECTORS IN THE TRAFFIC SIGNAL CABINET. THE CONTRACTOR SHALL RECONNECT THE LOOPS AFTER THE COMPLETION OF STAGE 1 AND PRIOR TO STAGE 2. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION.
 - THE CONTRACTOR SHALL BAG AND DEENERGIZE SIGNAL HEADS DURING STAGE 1.

TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
1 OR 3 - SECTION	12	11	132
4 - SECTION		14	
5 - SECTION	2	13	26
PROGRAMMABLE SIGNALS			
3 - SECTION		22	
4 - SECTION		32	
5 - SECTION		28	
PED. SIGNAL		15	
CONTROLLER	1	150	150
MASTER CONTROLLER		100	
UPS	1	25	25
DETECTION RADAR OR VIDEO	1	20	20
BLANK-OUT SIGN		25	
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM		15	
PTZ CAMERA	1	75	75
TOTAL UPS SIZING		463	
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER		15	
LED STREET NAME SIGN		120	
LUMINAIRE		240	
TOTAL SERVICE WIRE SIZING		1068	

ENERGY COSTS TO:
CITY OF ROLLING MEADOWS
 3600 KIRCHOFF RD
 ROLLING MEADOWS, IL 60008

ENERGY SUPPLY: CONTACT: JAMES CAMPBELL
 PHONE: (630) 940-6805
 COMPANY: COMED
 ACCOUNT NUMBER: 84692841222
 METER NUMBER:

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1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = AlExaM	DESIGNED - RRS	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN - ACM	REVISED -
PLOT DATE = 1/22/2025	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

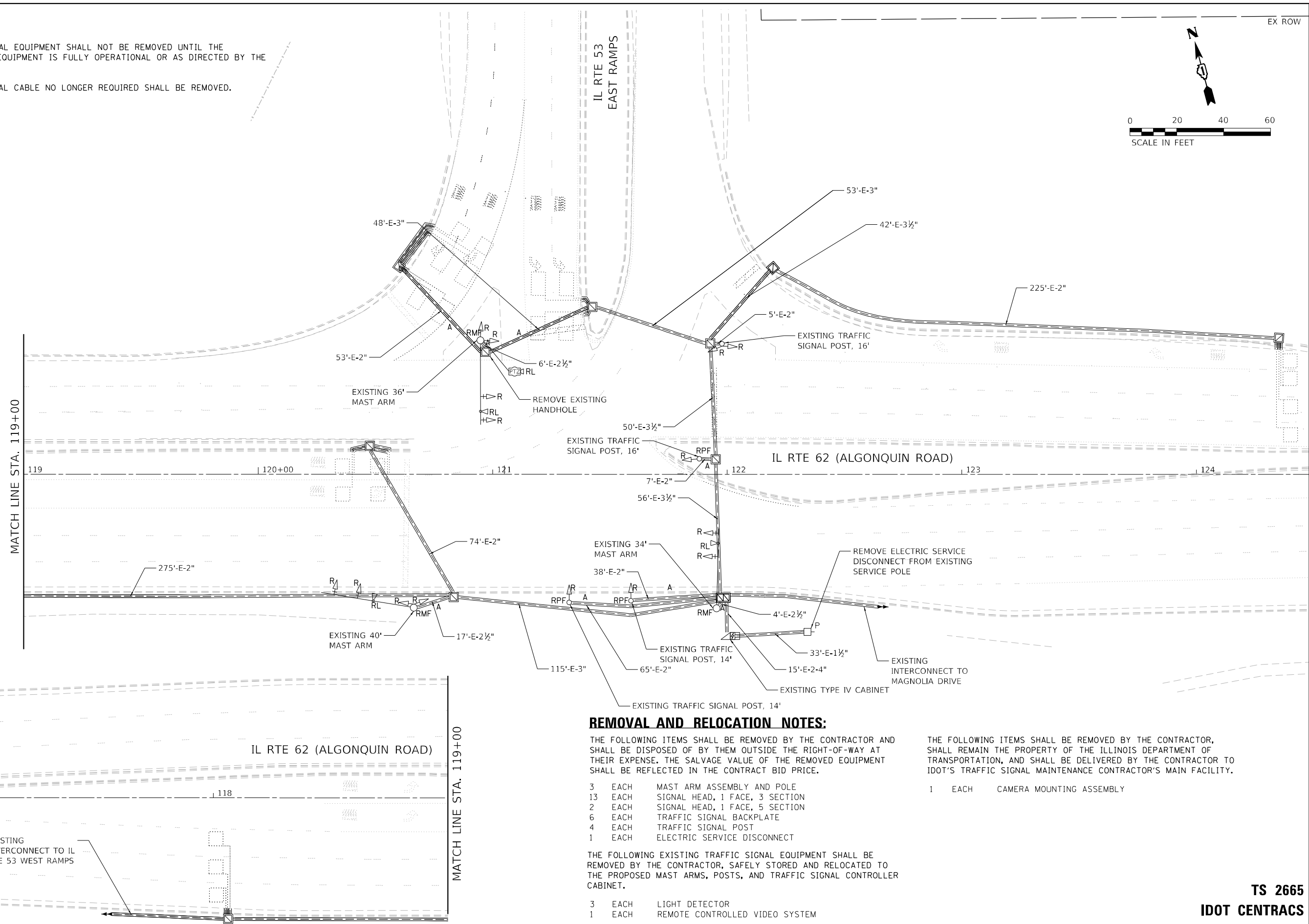
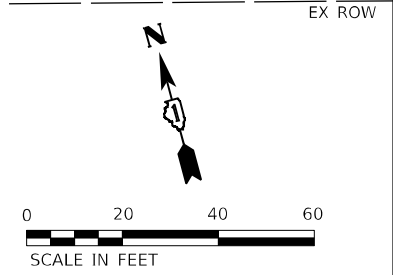
**TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND
 EMERGENCY VEHICLE PREEMPTION SEQUENCE
 IL RTE 62 (ALGONQUIN ROAD) AND IL RTE 53 EAST RAMP**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 529C
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.



REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 3 EACH MAST ARM ASSEMBLY AND POLE
- 13 EACH SIGNAL HEAD, 1 FACE, 3 SECTION
- 2 EACH SIGNAL HEAD, 1 FACE, 5 SECTION
- 6 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH TRAFFIC SIGNAL POST
- 1 EACH ELECTRIC SERVICE DISCONNECT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS, POSTS, AND TRAFFIC SIGNAL CONTROLLER CABINET.

- 3 EACH LIGHT DETECTOR
- 1 EACH REMOTE CONTROLLED VIDEO SYSTEM

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, AND SHALL BE DELIVERED BY THE CONTRACTOR TO IDOT'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY.

- 1 EACH CAMERA MOUNTING ASSEMBLY

MODEL: D:\p4\h\1170-00-6399\346113\Drawings\CD\Micro-SSA\CAD_Sheets\C2-D\62N91-1-1-24-Removal-Relocation\Algonquin\62N91-1-1-24-Removal-Relocation.dwg



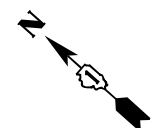
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DRAWN - ACM	REVISIONS -	
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PLOT DATE = 12/12/2024	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

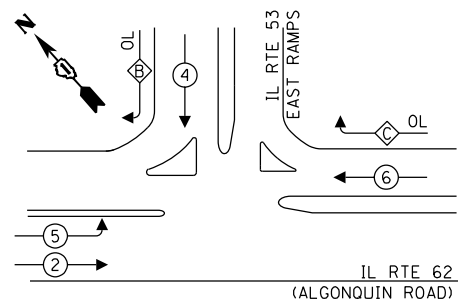
TRAFFIC SIGNAL REMOVAL PLAN
IL RTE 62 (ALGONQUIN ROAD) AT IL RTE 53 EAST RAMP
SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	530
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

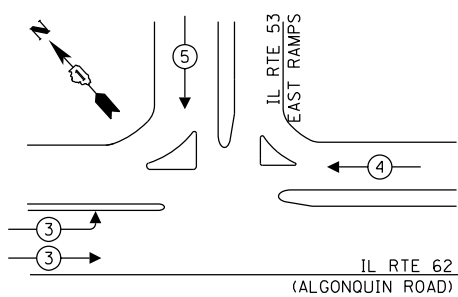
TS 2665
IDOT CENTRACS
FORMER ECON 96



EXISTING AND PROPOSED CONTROLLER SEQUENCE



EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

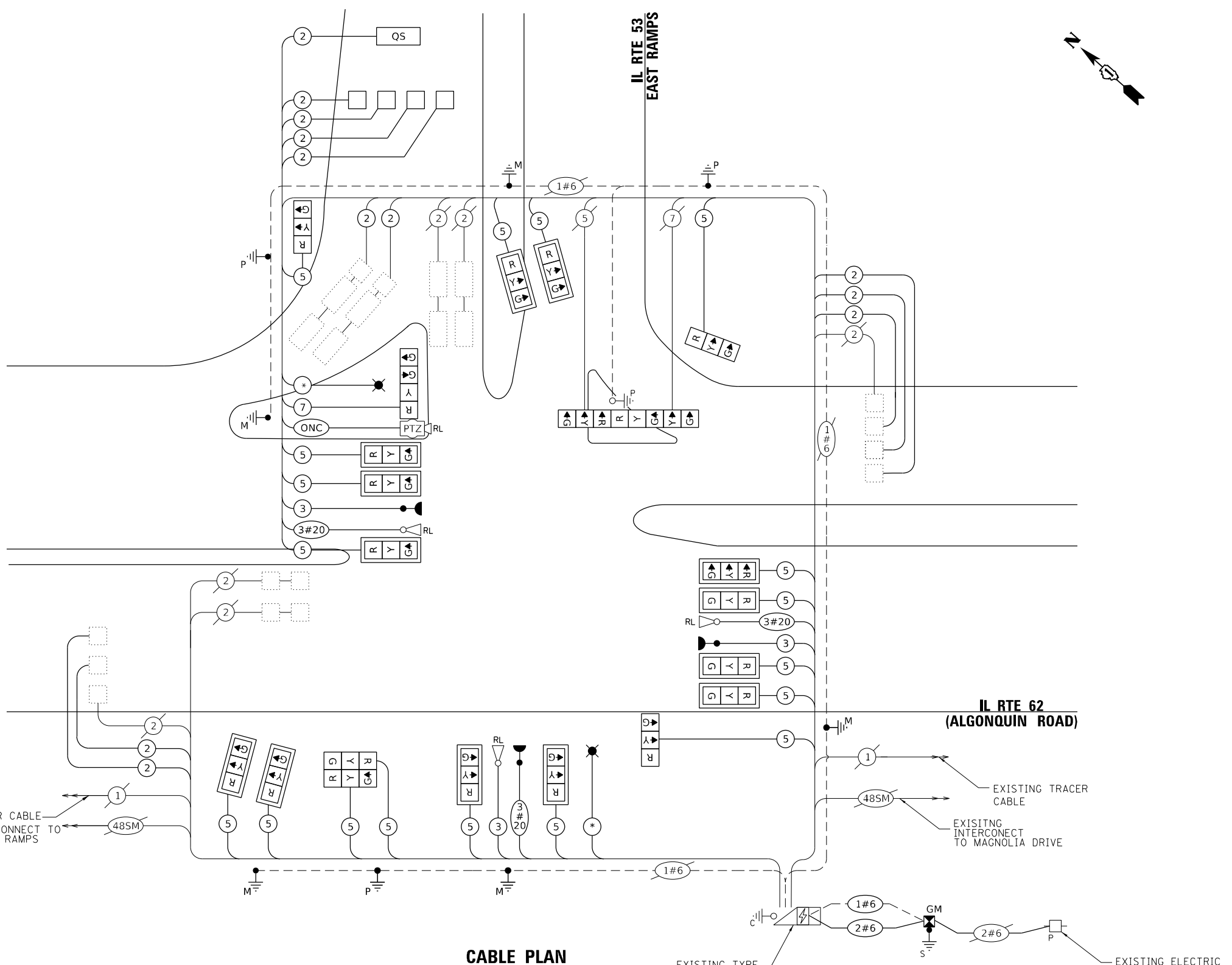


LEGEND:

- ← * → PROTECTED PHASE
- ← * - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * OL → OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
C	= 6	+ 4



CABLE PLAN
(NOT TO SCALE)

MODEL: D:\p\h\... FILE NAME: S:\001\6200-6299\3481\11310\Drawings\CADD\Drawings\CADD\Sheet\CD\162N91-1-1-25-Cable_Plan-Algonquin\62N91-1-1-25-SA.dwg

TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
1 OR 3 - SECTION	19	11	209
4 - SECTION	1	14	14
5 - SECTION	1	13	13
PROGRAMMABLE SIGNALS			
3 - SECTION		22	
4 - SECTION		32	
5 - SECTION		28	
PED. SIGNAL			
		15	
CONTROLLER			
MASTER CONTROLLER	1	150	150
UPS	1	25	25
DETECTION			
RADAR OR VIDEO		20	
BLANK-OUT SIGN			
		25	
NETWORK SWITCH II OR III			
	1	35	35
CELLULAR MODEM			
		15	
PTZ CAMERA			
	1	75	75
TOTAL UPS SIZING			
		521	
UPS CHARGING			
	1	225	225
BATTERY HEATER MAT			
	1	180	180
CABINET HEATER			
	1	200	200
FLASHER			
		15	
LED STREET NAME SIGN			
		120	
LUMINAIRE			
	2	240	480
TOTAL SERVICE WIRE SIZING			
		1606	

ENERGY COSTS TO:
CITY OF ROLLING MEADOWS
3600 KIRCHOFF RD
ROLLING MEADOWS, IL 60008

ENERGY SUPPLY: CONTACT: JAMES CAMPBELL
PHONE: (630) 940-6805
COMPANY: COMED
ACCOUNT NUMBER: 84692841222
METER NUMBER:

* - SEE ROADWAY LIGHTING PLAN

EXISTING TRACER CABLE
EXISTING INTERCONNECT
IL RTE 53 WEST RAMPS

IL RTE 62 (ALGONQUIN ROAD)

EXISTING TRACER CABLE
EXISTING INTERCONNECT TO MAGNOLIA DRIVE

EXISTING TYPE IV CABINET

EXISTING ELECTRIC SERVICE DROP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 62 (ALGONQUIN ROAD) AND IL RTE 53 EAST RAMPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	533
CONTRACT NO. 62N91				

TS 2665
IDOT CENTRACS
FORMER ECON 96



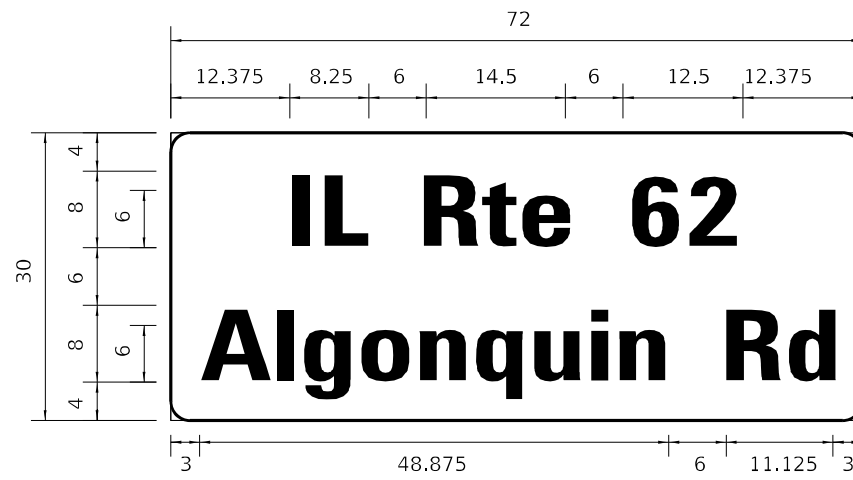
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PLOT SCALE = 20,0000 * / in.	DRAWN - ACM	REVISED -
PLOT DATE = 12/12/2024	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	15	2	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

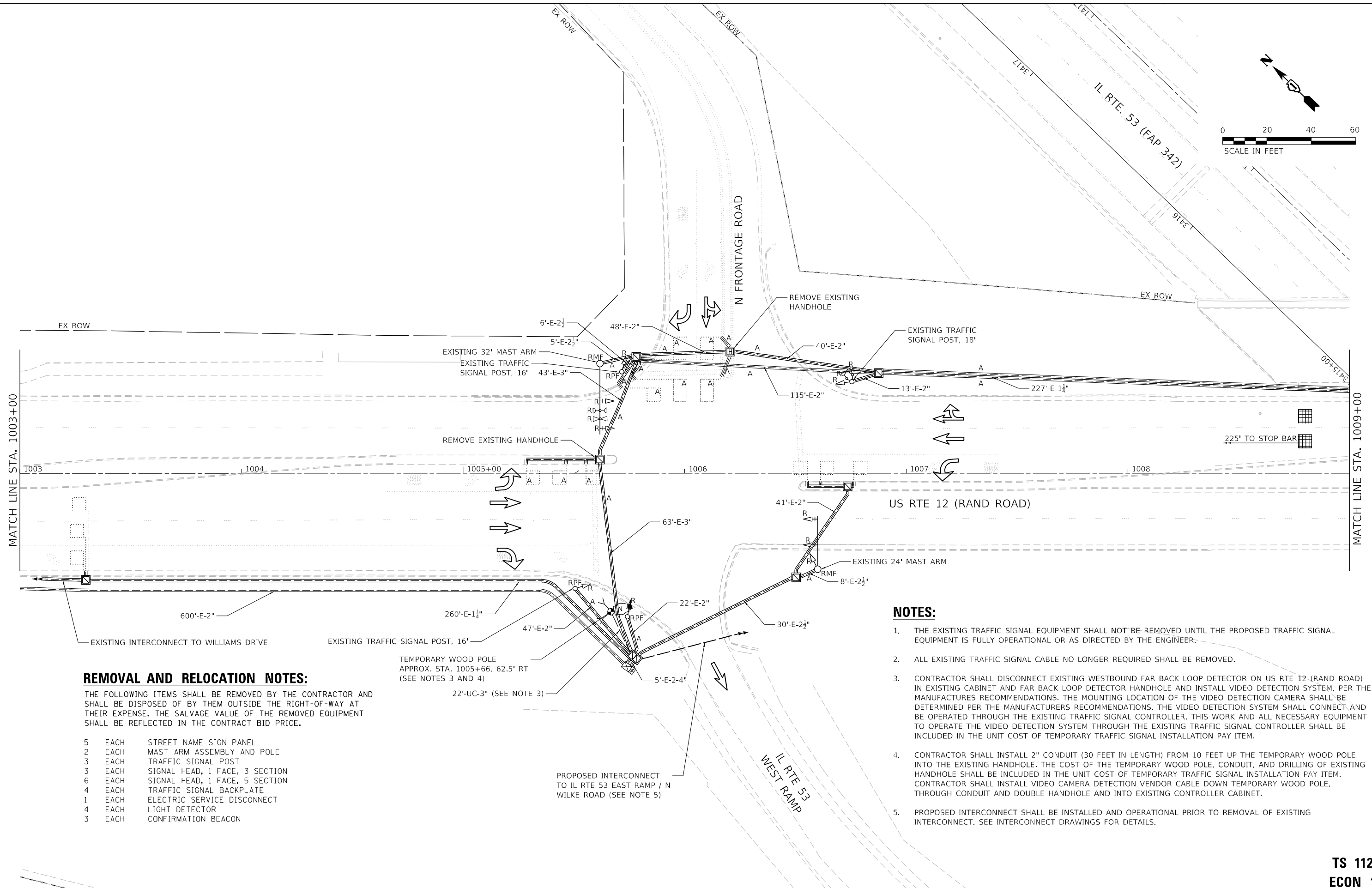
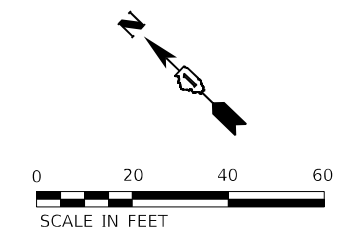
ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	32.5
SIGN PANEL - TYPE 2	SQ FT	15.0
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	465
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	348
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	338
HANDHOLE	EACH	1
HEAVY-DUTY HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	535
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,857
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	289
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5,771
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	27
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	836
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 22 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
DRILL EXISTING HANDHOLE	EACH	20
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	13
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	13
INDUCTIVE LOOP DETECTOR	EACH	7
DETECTOR LOOP, TYPE I	FOOT	215
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3,058
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	535
OUTDOOR RATED NETWORK CABLE	FOOT	337
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
RELOCATE EXISTING PTZ CAMERA	EACH	1
LED SIGNAL FACE, LENS COVER	EACH	21
* CONFIRMATION BEACON	EACH	3
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

*100% COST TO THE CITY OF ROLLING MEADOWS

TS 2665
IDOT CENTRACS
FORMER ECON 96

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1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = AlexAM	DESIGNED - RRS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES IL RTE 62 (ALGONQUIN RD) AND IL RTE 53 EAST RAMPS	F.A.P. RTE. = 342	SECTION = 2018-100-BR	COUNTY = COOK	TOTAL SHEETS = 1351	SHEET NO. = 534
	PLOT SCALE = 40,0000 * / in.	CHECKED - KRH	REVISED -			SCALE: NTS	SHEET 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 62N91	
	PLOT DATE = 1/22/2025	DATE - 12/13/24	REVISED -			ILLINOIS FED. AID PROJECT				



REMOVAL AND RELOCATION NOTES:
 THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

5	EACH	STREET NAME SIGN PANEL
2	EACH	MAST ARM ASSEMBLY AND POLE
3	EACH	TRAFFIC SIGNAL POST
3	EACH	SIGNAL HEAD, 1 FACE, 3 SECTION
6	EACH	SIGNAL HEAD, 1 FACE, 5 SECTION
4	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	ELECTRIC SERVICE DISCONNECT
4	EACH	LIGHT DETECTOR
3	EACH	CONFIRMATION BEACON

- NOTES:**
1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
 2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
 3. CONTRACTOR SHALL DISCONNECT EXISTING WESTBOUND FAR BACK LOOP DETECTOR ON US RTE 12 (RAND ROAD) IN EXISTING CABINET AND FAR BACK LOOP DETECTOR HANDHOLE AND INSTALL VIDEO DETECTION SYSTEM, PER THE MANUFACTURERS RECOMMENDATIONS. THE MOUNTING LOCATION OF THE VIDEO DETECTION CAMERA SHALL BE DETERMINED PER THE MANUFACTURERS RECOMMENDATIONS. THE VIDEO DETECTION SYSTEM SHALL CONNECT AND BE OPERATED THROUGH THE EXISTING TRAFFIC SIGNAL CONTROLLER. THIS WORK AND ALL NECESSARY EQUIPMENT TO OPERATE THE VIDEO DETECTION SYSTEM THROUGH THE EXISTING TRAFFIC SIGNAL CONTROLLER SHALL BE INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION PAY ITEM.
 4. CONTRACTOR SHALL INSTALL 2" CONDUIT (30 FEET IN LENGTH) FROM 10 FEET UP THE TEMPORARY WOOD POLE INTO THE EXISTING HANDHOLE. THE COST OF THE TEMPORARY WOOD POLE, CONDUIT, AND DRILLING OF EXISTING HANDHOLE SHALL BE INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION PAY ITEM. CONTRACTOR SHALL INSTALL VIDEO CAMERA DETECTION VENDOR CABLE DOWN TEMPORARY WOOD POLE, THROUGH CONDUIT AND DOUBLE HANDHOLE AND INTO EXISTING CONTROLLER CABINET.
 5. PROPOSED INTERCONNECT SHALL BE INSTALLED AND OPERATIONAL PRIOR TO REMOVAL OF EXISTING INTERCONNECT. SEE INTERCONNECT DRAWINGS FOR DETAILS.

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USER NAME = AlexAM	DESIGNED - RRS	REVISED -
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PLOT DATE = 12/12/2024	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

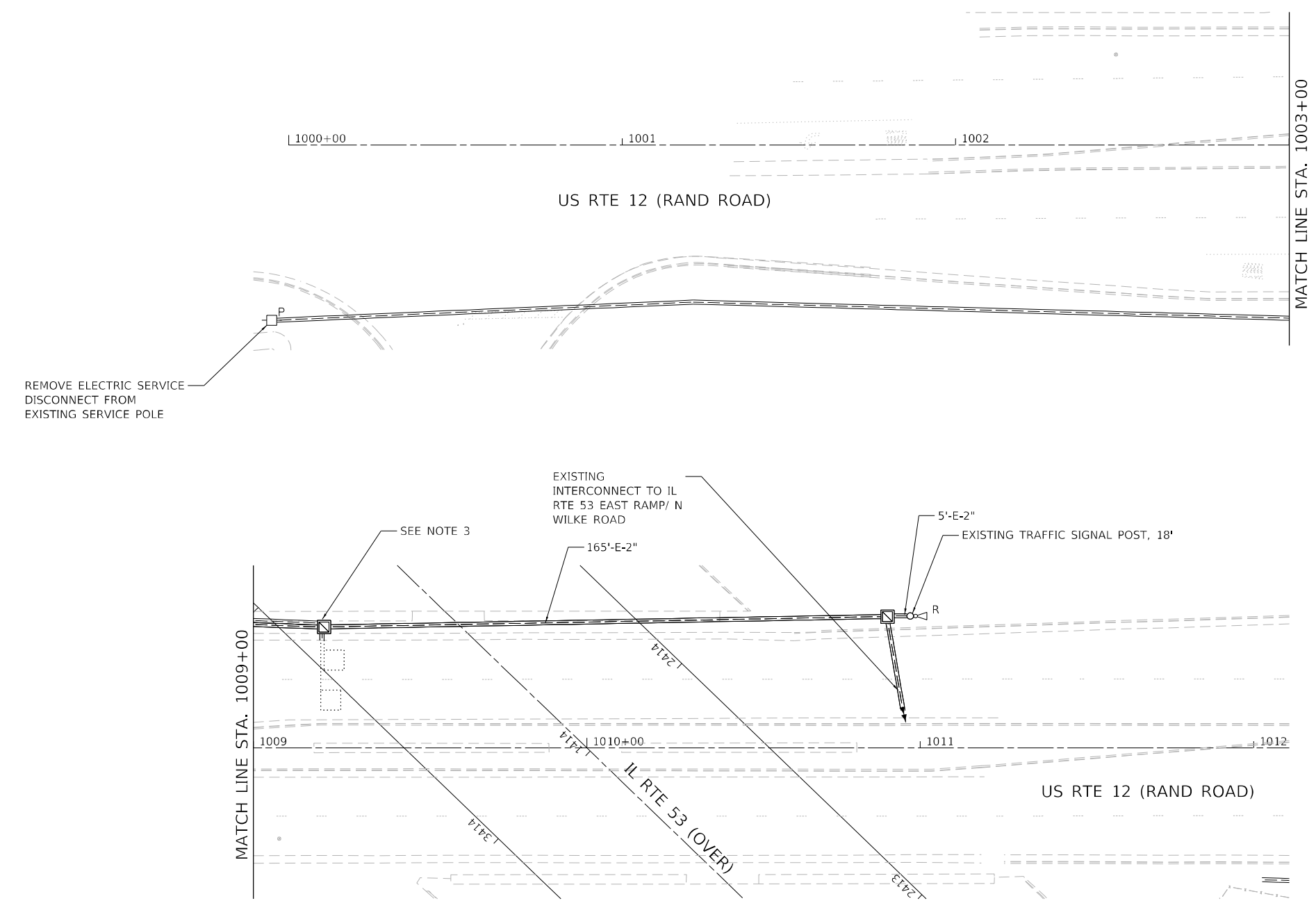
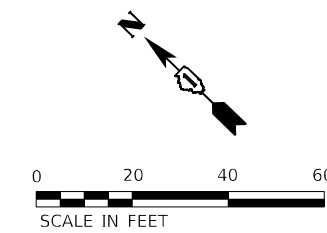
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PARTIAL TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
US RTE 12 (RAND ROAD) & IL RTE 53 WEST RAMP/N FRONTAGE ROAD**

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

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 535
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

**TS 11290
ECON 164**



NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. CONTRACTOR SHALL DISCONNECT EXISTING WESTBOUND FAR BACK LOOP DETECTOR ON US RTE 12 (RAND ROAD) IN EXISTING CABINET AND FAR BACK LOOP DETECTOR HANDHOLE AND INSTALL VIDEO DETECTION SYSTEM, PER THE MANUFACTURES RECOMMENDATIONS. THE MOUNTING LOCATION OF THE VIDEO DETECTION CAMERA SHALL BE DETERMINED PER THE MANUFACTURERS RECOMMENDATIONS. THE VIDEO DETECTION SYSTEM SHALL CONNECT AND BE OPERATED THROUGH THE EXISTING TRAFFIC SIGNAL CONTROLLER. THIS WORK AND ALL NECESSARY EQUIPMENT TO OPERATE THE VIDEO DETECTION SYSTEM THROUGH THE EXISTING TRAFFIC SIGNAL CONTROLLER SHALL BE INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION PAY ITEM.
4. CONTRACTOR SHALL INSTALL 2" CONDUIT (30 FEET IN LENGTH) FROM 10 FEET UP THE TEMPORARY WOOD POLE INTO THE EXISTING HANDHOLE. THE COST OF THE TEMPORARY WOOD POLE, CONDUIT, AND DRILLING OF EXISTING HANDHOLE SHALL BE INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION PAY ITEM. CONTRACTOR SHALL INSTALL VIDEO CAMERA DETECTION VENDOR CABLE DOWN TEMPORARY WOOD POLE, THROUGH CONDUIT AND DOUBLE HANDHOLE AND INTO EXISTING CONTROLLER CABINET.
5. PROPOSED INTERCONNECT SHALL BE INSTALLED AND OPERATIONAL PRIOR TO REMOVAL OF EXISTING INTERCONNECT. SEE INTERCONNECT DRAWINGS FOR DETAILS.

TS 11290
ECON 164

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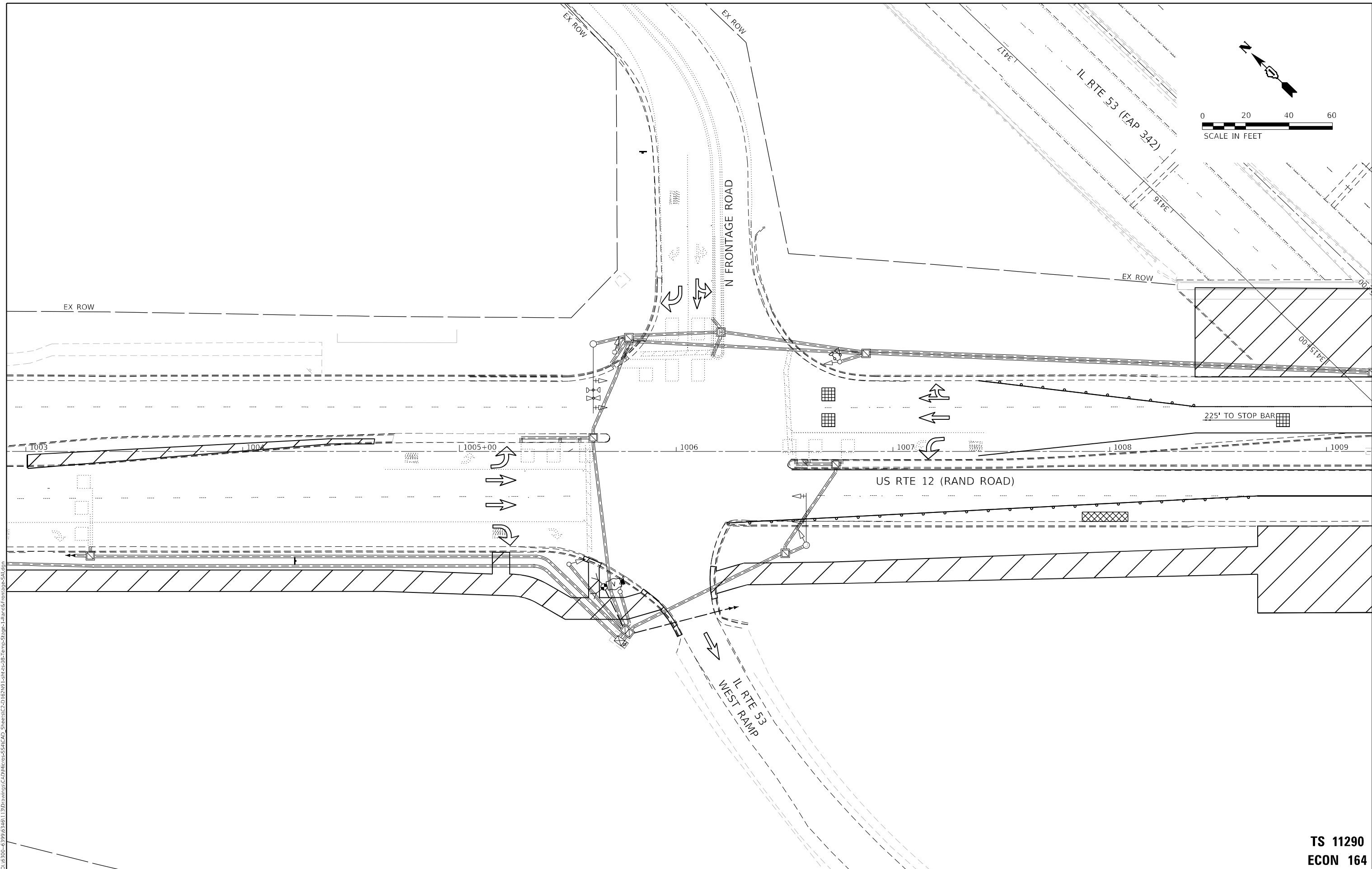
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DRAWN - ACM	REVISIONS -	
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PLOT DATE = 12/12/2024	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARTIAL TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
US RTE 12 (RAND ROAD) & IL RTE 53 WEST RAMP/N FRONTAGE ROAD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	536
CONTRACT NO. 62N91				
ILLINOIS		FED. AID PROJECT		

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



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USER NAME = AlexM	DESIGNED - RRS	REVISED -
DRAWN - ACM	DRAWN - ACM	REVISED -
PLOT SCALE = 40,0000 */ in.	CHECKED - KRH	REVISED -
PLOT DATE = 12/12/2024	DATE - 12/13/24	REVISED -

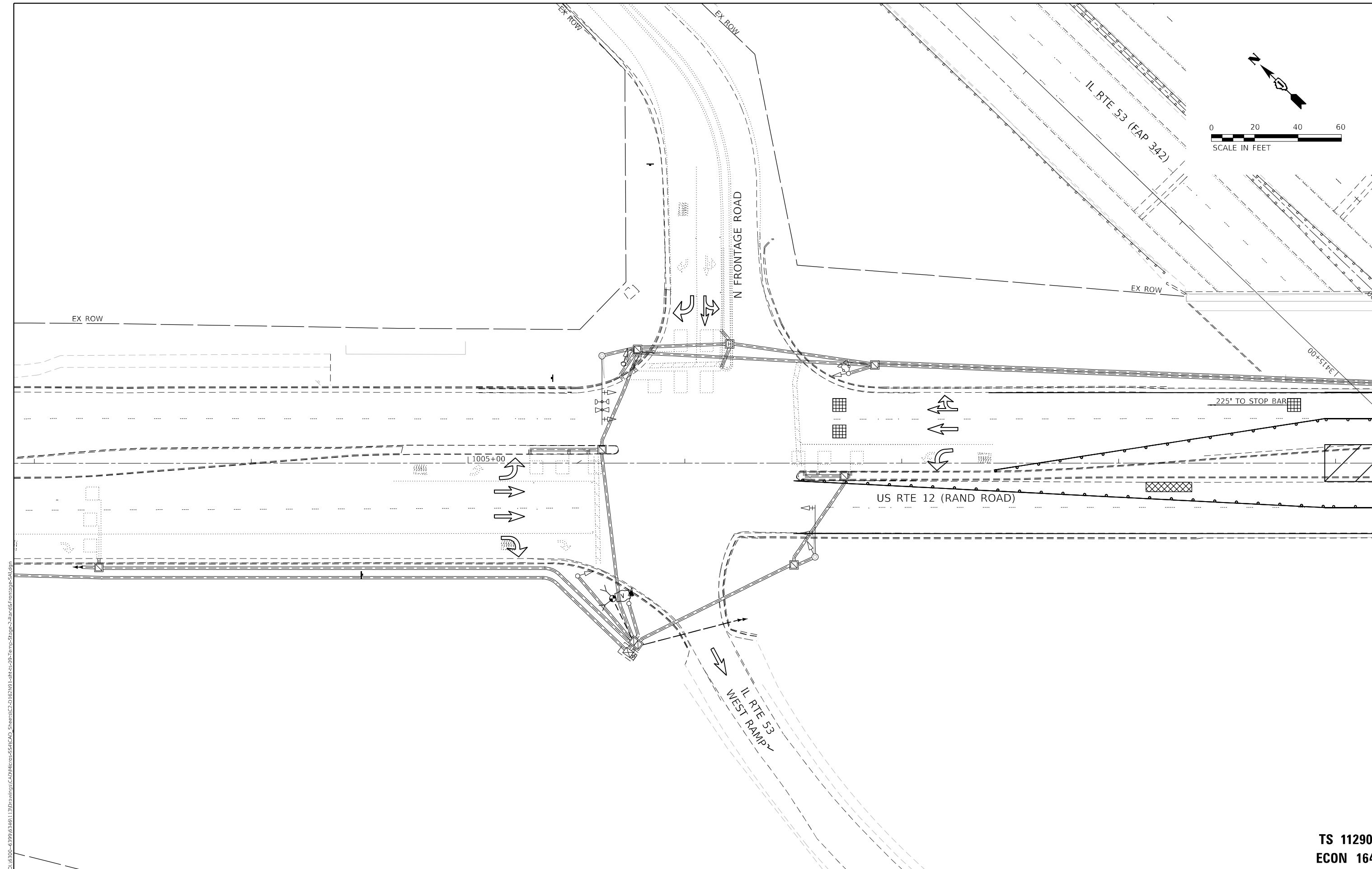
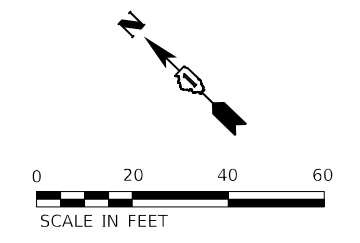
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 1 PARTIAL TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
US RTE 12 (RAND ROAD) & IL RTE 53 WEST RAMP/N FRONTAGE ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	537
CONTRACT NO. 62N91				
			ILLINOIS FED. AID PROJECT	

**TS 11290
ECON 164**



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**TS 11290
ECON 164**



USER NAME = AlexAM	DESIGNED - RRS	REVISED -
DRAWN - ACM	REVISIONS -	
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PLOT DATE = 12/12/2024	DATE - 12/13/24	REVISED -

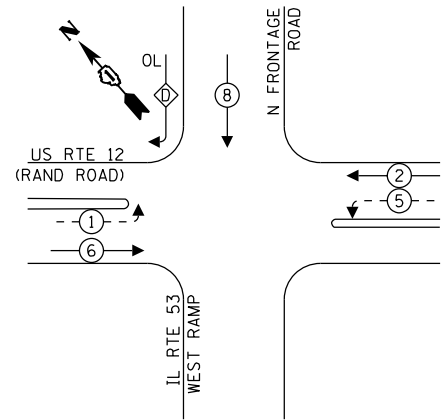
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 2 PARTIAL TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
US RTE 12 (RAND ROAD) & IL RTE 53 WEST RAMP/ FRONTAGE ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	538
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

EXISTING AND TEMPORARY CONTROLLER SEQUENCE



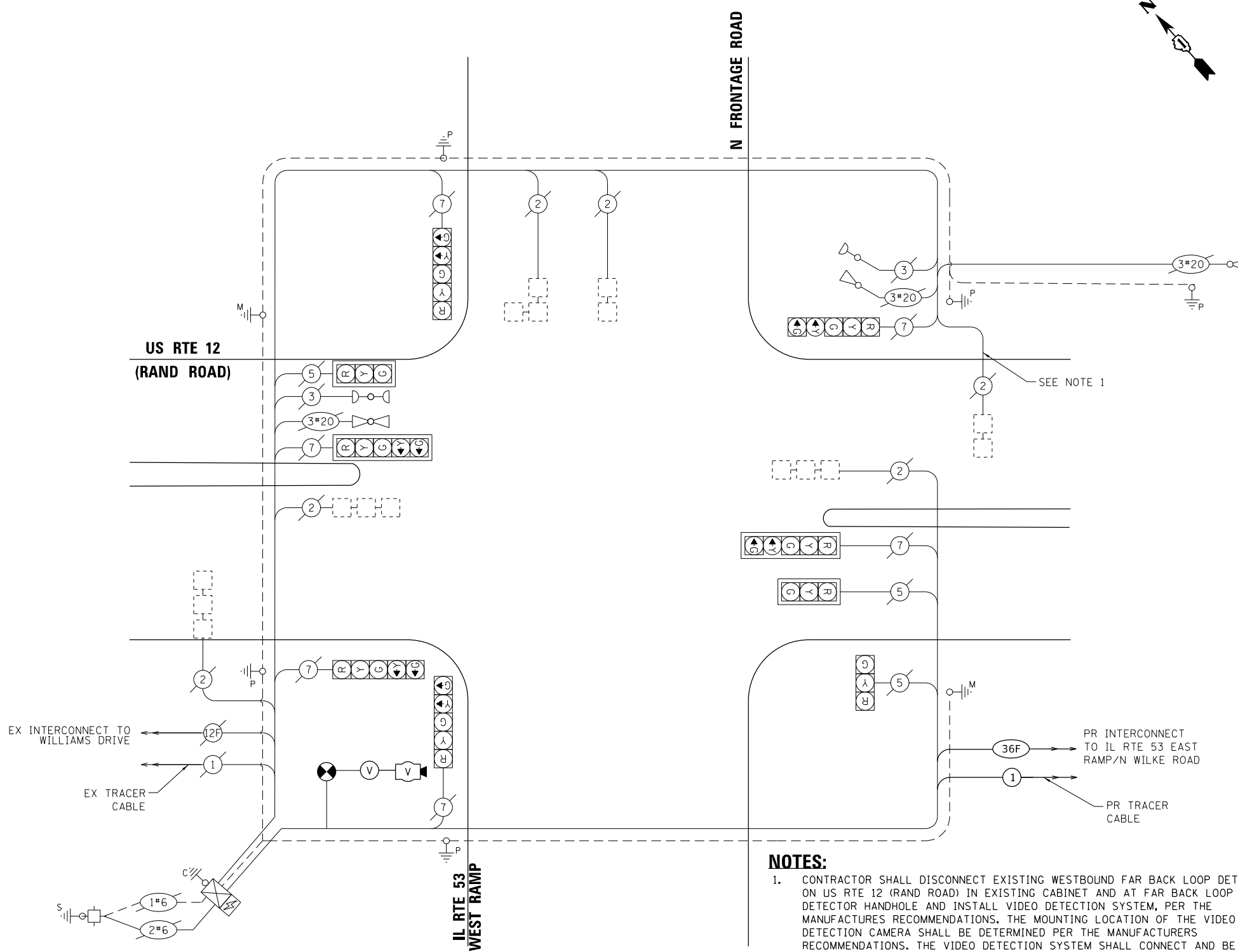
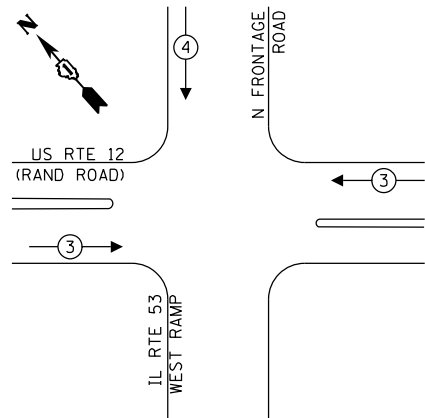
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 8	+ 1

EXISTING AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



NOTES:

- CONTRACTOR SHALL DISCONNECT EXISTING WESTBOUND FAR BACK LOOP DETECTOR ON US RTE 12 (RAND ROAD) IN EXISTING CABINET AND AT FAR BACK LOOP DETECTOR HANDHOLE AND INSTALL VIDEO DETECTION SYSTEM, PER THE MANUFACTURERS RECOMMENDATIONS. THE MOUNTING LOCATION OF THE VIDEO DETECTION CAMERA SHALL BE DETERMINED PER THE MANUFACTURERS RECOMMENDATIONS. THE VIDEO DETECTION SYSTEM SHALL CONNECT AND BE OPERATED THROUGH THE EXISTING TRAFFIC SIGNAL CONTROLLER. THIS WORK AND ALL NECESSARY EQUIPMENT TO OPERATE THE VIDEO DETECTION SYSTEM THROUGH THE EXISTING TRAFFIC SIGNAL CONTROLLER SHALL BE INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION PAY ITEM.
- CONTRACTOR SHALL NOT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNTIL PROPOSED SIGNALS ARE INSTALLED AND OPERATIONAL.
- PROPOSED INTERCONNECT SHALL BE INSTALLED AND OPERATIONAL PRIOR TO REMOVAL OF EXISTING INTERCONNECT. SEE INTERCONNECT DRAWINGS FOR DETAILS.

TEMPORARY CABLE PLAN (NOT TO SCALE)

TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
1 OR 3 - SECTION	3	11	33
4 - SECTION		14	
5 - SECTION	6	13	78
PROGRAMMABLE SIGNALS			
3 - SECTION		22	
4 - SECTION		32	
5 - SECTION		28	
PED. SIGNAL			
		15	
CONTROLLER			
MASTER CONTROLLER	1	150	150
UPS	1	25	25
DETECTION			
RADAR OR VIDE	1	20	20
BLANK-OUT SIGN			
		25	
NETWORK SWITCH II OR III			
		35	
CELLULAR MODEM			
		15	
PTZ CAMERA			
		75	
TOTAL UPS SIZING			306
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER		15	
LED STREET NAME SIGN		120	
LUMINAIRE		240	
TOTAL SERVICE WIRE SIZING			911

ENERGY COSTS TO:
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 W. CENTER CT
 SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: JAMES CAMPBELL
 PHONE: (630) 940-6805
 COMPANY: COMED
 ACCOUNT NUMBER: 7016200461
 METER NUMBER:

MODEL: D:\p1\1170 SOUTH HOUBOLT ROAD\1170\Drawings\TS\1170-TS-10-Temp-Cable.dwg
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 PLOT DATE: 12/12/2024



1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = AlexAM	DESIGNED - RRS	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN - ACM	REVISED -
PLOT DATE = 12/12/2024	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

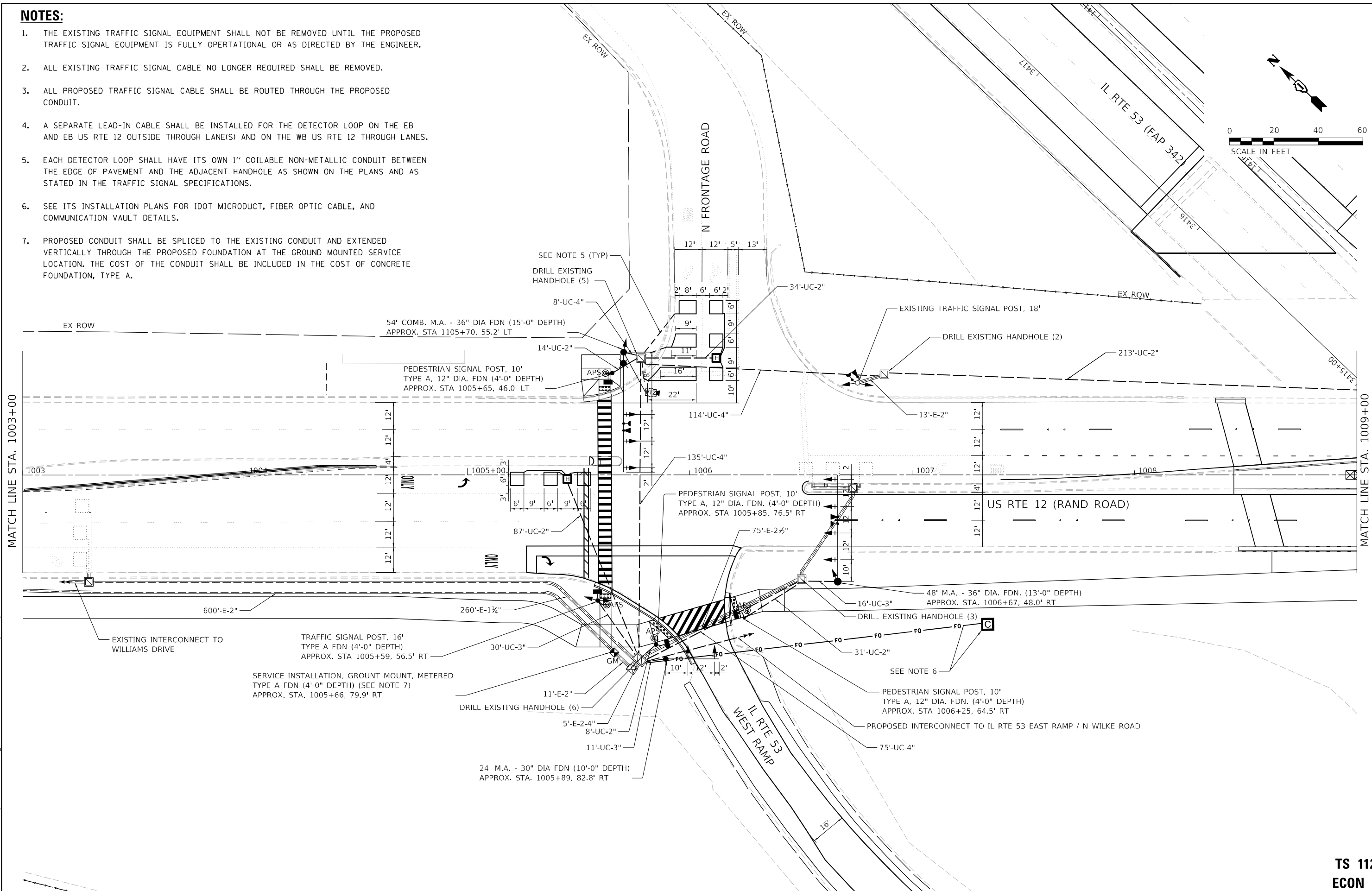
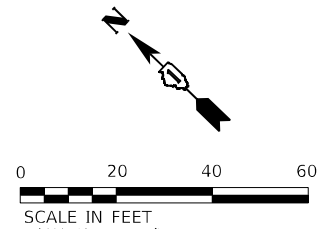
ALL STAGES PARTIAL TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 US RTE 12 (RAND ROAD) AND IL RTE 53 WEST RAMP/N FRONTAGE ROAD
 SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	539
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

**TS 11290
 ECON 164**

NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
4. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOP ON THE EB AND EB US RTE 12 OUTSIDE THROUGH LANE(S) AND ON THE WB US RTE 12 THROUGH LANES.
5. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
6. SEE ITS INSTALLATION PLANS FOR IDOT MICRODUCT, FIBER OPTIC CABLE, AND COMMUNICATION VAULT DETAILS.
7. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE LOCATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A.



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1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = AlexAM	DESIGNED - RRS	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - ACM	REVISED -
PLOT DATE = 12/12/2024	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLANS
US RTE 12 (RAND ROAD) AND IL RTE 53 WEST RAMP/N FRONTAGE ROAD

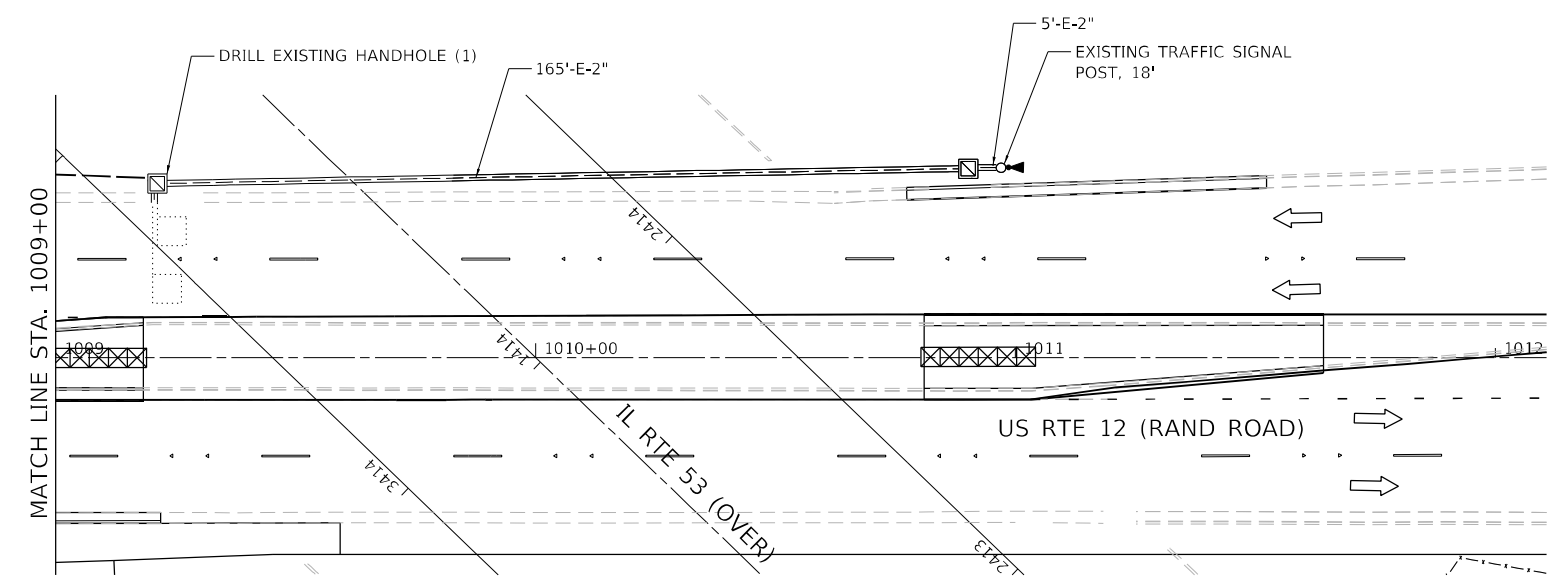
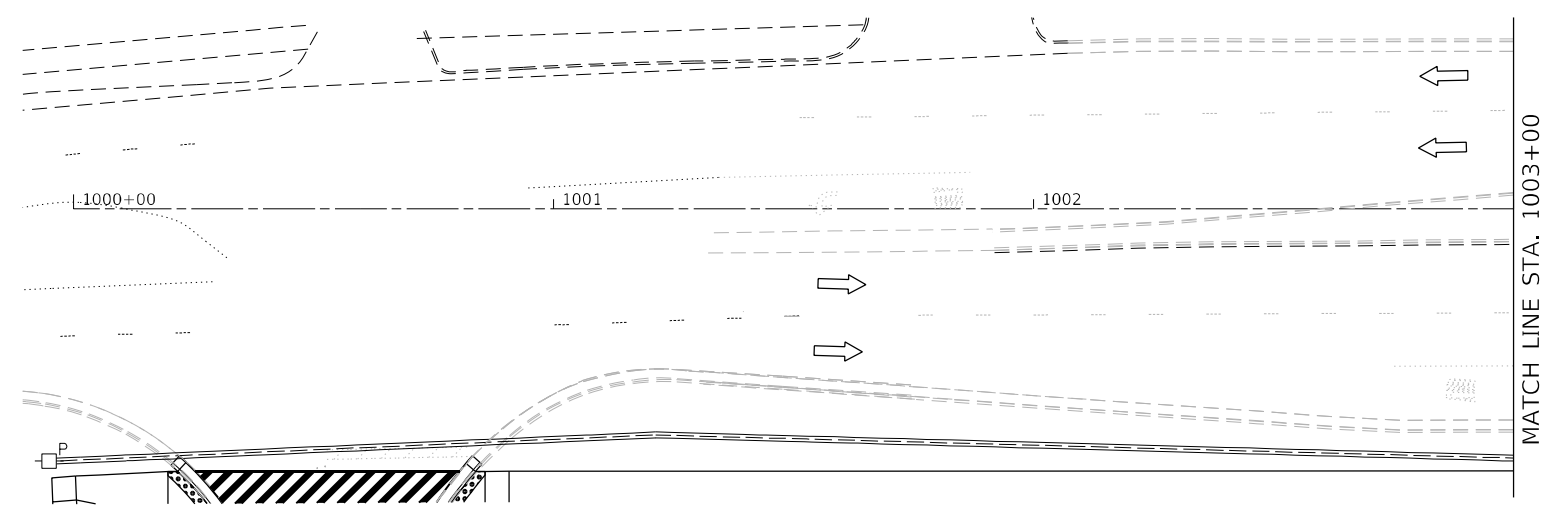
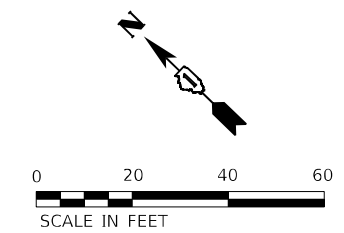
SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 540
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N91	

TS 11290
ECON 164

NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
4. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOP ON THE EB AND EB US RTE 12 OUTSIDE THROUGH LANE(S) AND ON THE WB US RTE 12 THROUGH LANES.
5. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
6. SEE ITS INSTALLATION PLANS FOR IDOT MICRODUCT, FIBER OPTIC CABLE, AND COMMUNICATION VAULT DETAILS.
7. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE LOCATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A.



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USER NAME = AlexAM	DESIGNED - RRS	REVISED -
DRAWN - ACM	REVISIONS -	
PLOT SCALE = 40,0000 * / in.	CHECKED - KRH	REVISED -
PLOT DATE = 12/12/2024	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

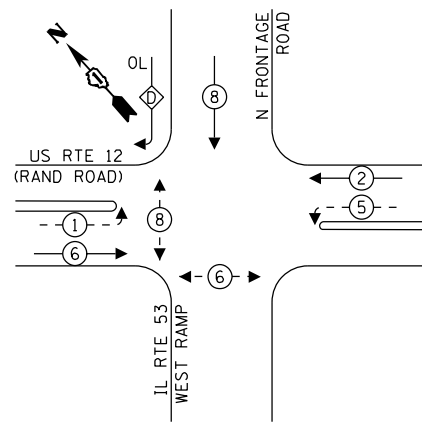
TRAFFIC SIGNAL MODERNIZATION PLANS
US RTE 12 (RAND ROAD) & IL RTE 53 WEST RAMP/N FRONTAGE ROAD

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 541
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

TS 11290
ECON 164

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

PROPOSED CONTROLLER SEQUENCE



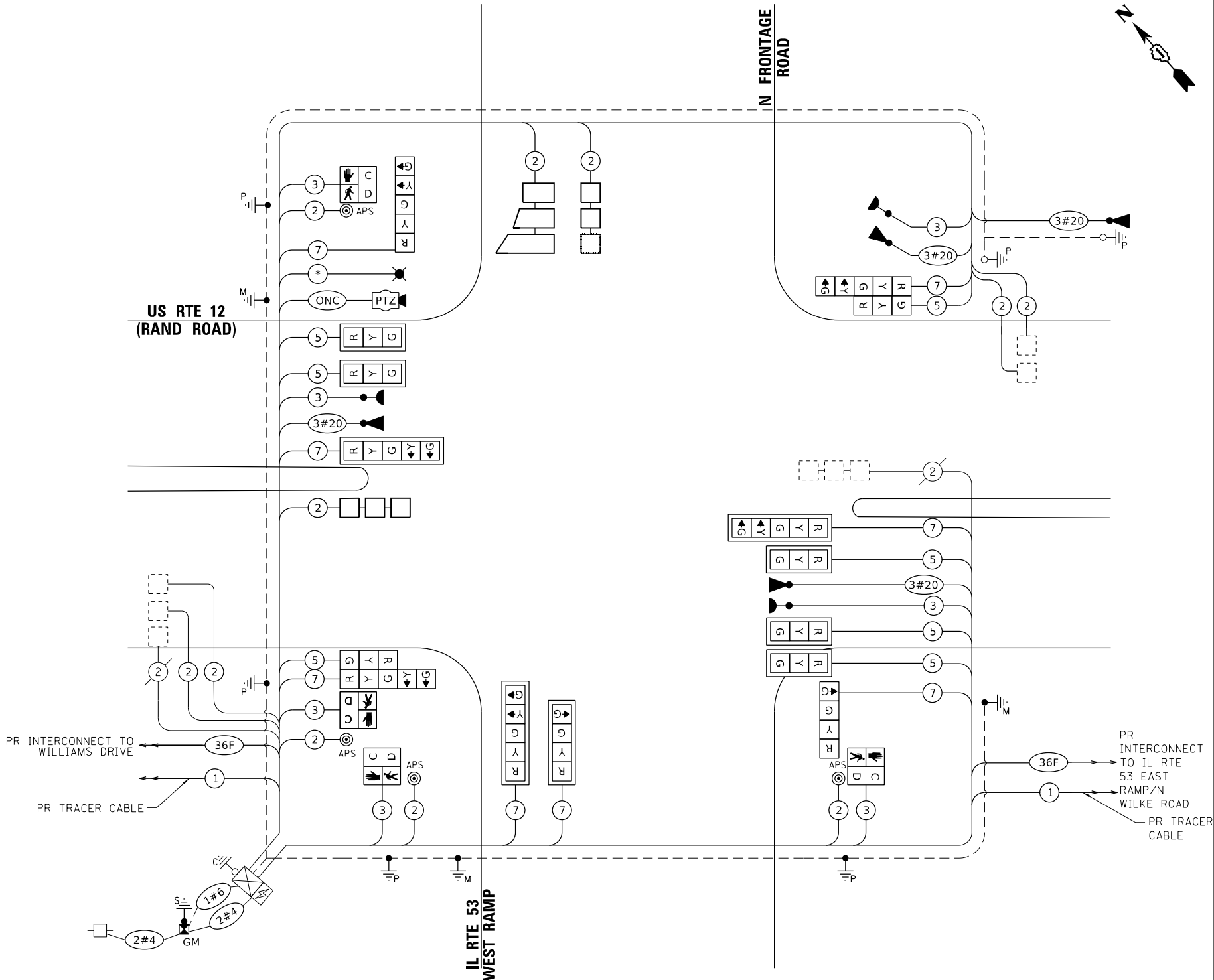
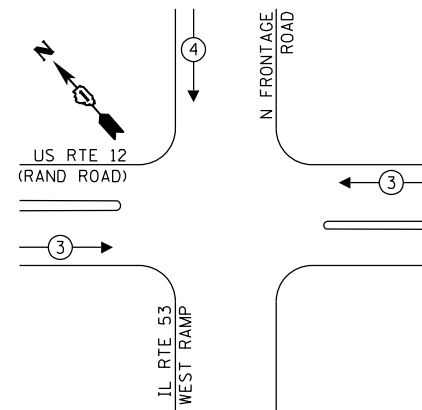
LEGEND:

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

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= 8	+ 1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN
(NOT TO SCALE)

* - SEE ROADWAY LIGHTING PLAN

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TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
1 OR 3 - SECTION	7	11	77
4 - SECTION	2	14	28
5 - SECTION	6	13	78
PROGRAMMABLE SIGNALS			
3 - SECTION		22	
4 - SECTION		32	
5 - SECTION		28	
PED. SIGNAL	4	15	60
CONTROLLER	1	150	150
MASTER CONTROLLER		100	
UPS	1	25	25
DETECTION RADAR OR VIDEO		20	
BLANK-OUT SIGN		25	
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM		15	
PTZ CAMERA	1	75	75
TOTAL UPS SIZING			528
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER		15	
LED STREET NAME SIGN		120	
LUMINAIRE	1	240	240
TOTAL SERVICE WIRE SIZING			1373

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W. CENTER CT
SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: JAMES CAMPBELL
PHONE: (630) 940-6805
COMPANY: COMED
ACCOUNT NUMBER: 7016200461
METER NUMBER:

USER NAME = AlExaM	DESIGNED - RRS	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN - ACM	REVISED -
PLOT DATE = 12/12/2024	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND
EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 12 (RAND ROAD) AND IL RTE 53 WEST RAMP/N FRONTAGE ROAD

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	542
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

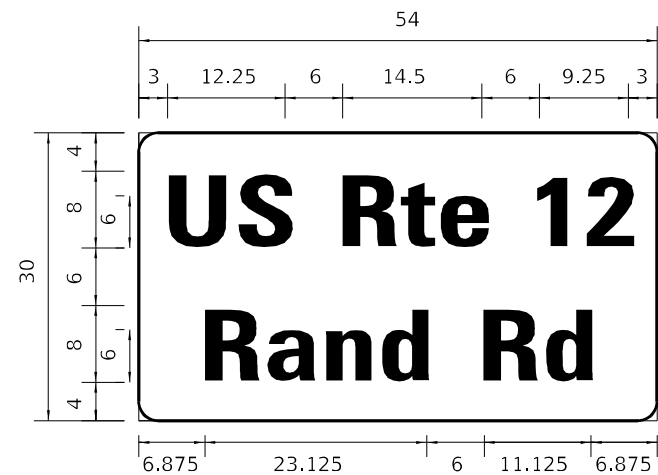
TS 11290
ECON 164



1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	11.25	2	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 2	SQ FT	11.3
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	387
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	57
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	332
HEAVY-DUTY HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	448
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,049
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,384
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,348
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,602
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2 C	FOOT	656
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	914
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 54 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	28
DRILL EXISTING HANDHOLE	EACH	17
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	9
INDUCTIVE LOOP DETECTOR	EACH	3
DETECTOR LOOP, TYPE I	FOOT	323
* LIGHT DETECTOR	EACH	4
* LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4,615
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1,476
CENTRACS LICENSE EXPANSION	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	218
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	3
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
LED SIGNAL FACE, LENS COVER	EACH	15
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

*100% COST TO THE VILLAGE OF PALATINE

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PLOT SCALE = 40,0000 * / in.	CHECKED - KRH	REVISED -
PLOT DATE = 12/12/2024	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
US RTE 12 (RAND RD) AND IL RTE 53 WEST RAMP/N FRONTAGE ROAD

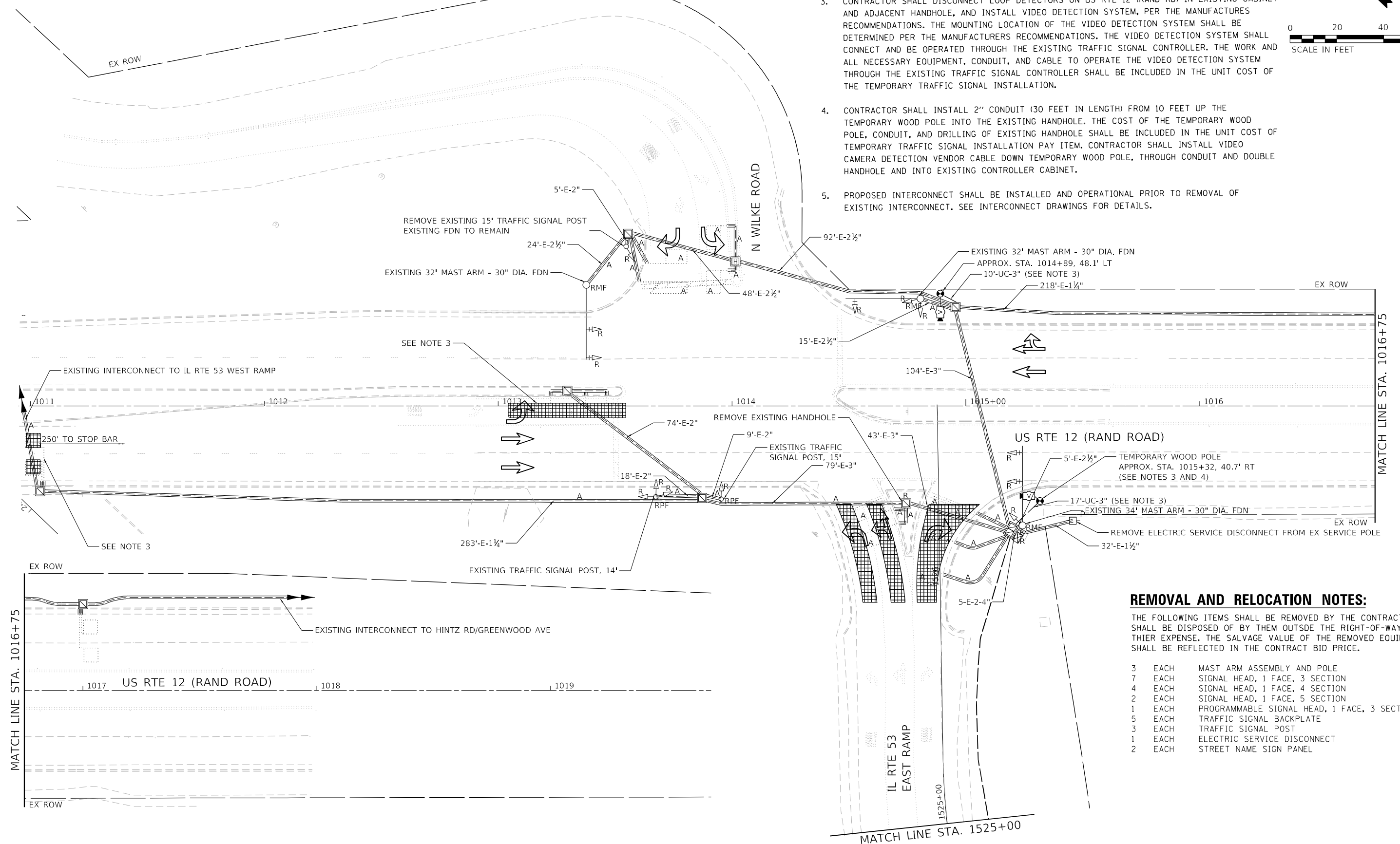
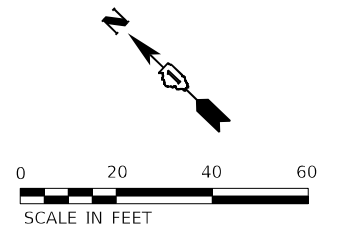
SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	543
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

TS 11290
ECON 164

NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. CONTRACTOR SHALL DISCONNECT LOOP DETECTORS ON US RTE 12 (RAND RD) IN EXISTING CABINET AND ADJACENT HANDHOLE, AND INSTALL VIDEO DETECTION SYSTEM, PER THE MANUFACTURERS RECOMMENDATIONS. THE MOUNTING LOCATION OF THE VIDEO DETECTION SYSTEM SHALL BE DETERMINED PER THE MANUFACTURERS RECOMMENDATIONS. THE VIDEO DETECTION SYSTEM SHALL CONNECT AND BE OPERATED THROUGH THE EXISTING TRAFFIC SIGNAL CONTROLLER. THE WORK AND ALL NECESSARY EQUIPMENT, CONDUIT, AND CABLE TO OPERATE THE VIDEO DETECTION SYSTEM THROUGH THE EXISTING TRAFFIC SIGNAL CONTROLLER SHALL BE INCLUDED IN THE UNIT COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
4. CONTRACTOR SHALL INSTALL 2" CONDUIT (30 FEET IN LENGTH) FROM 10 FEET UP THE TEMPORARY WOOD POLE INTO THE EXISTING HANDHOLE. THE COST OF THE TEMPORARY WOOD POLE, CONDUIT, AND DRILLING OF EXISTING HANDHOLE SHALL BE INCLUDED IN THE UNIT COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION PAY ITEM. CONTRACTOR SHALL INSTALL VIDEO CAMERA DETECTION VENDOR CABLE DOWN TEMPORARY WOOD POLE, THROUGH CONDUIT AND DOUBLE HANDHOLE AND INTO EXISTING CONTROLLER CABINET.
5. PROPOSED INTERCONNECT SHALL BE INSTALLED AND OPERATIONAL PRIOR TO REMOVAL OF EXISTING INTERCONNECT. SEE INTERCONNECT DRAWINGS FOR DETAILS.



REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

3	EACH	MAST ARM ASSEMBLY AND POLE
7	EACH	SIGNAL HEAD, 1 FACE, 3 SECTION
4	EACH	SIGNAL HEAD, 1 FACE, 4 SECTION
2	EACH	SIGNAL HEAD, 1 FACE, 5 SECTION
1	EACH	PROGRAMMABLE SIGNAL HEAD, 1 FACE, 3 SECTION
5	EACH	TRAFFIC SIGNAL BACKPLATE
3	EACH	TRAFFIC SIGNAL POST
1	EACH	ELECTRIC SERVICE DISCONNECT
2	EACH	STREET NAME SIGN PANEL

MODEL: Default
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 STRAND ASSOCIATES®

SA
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

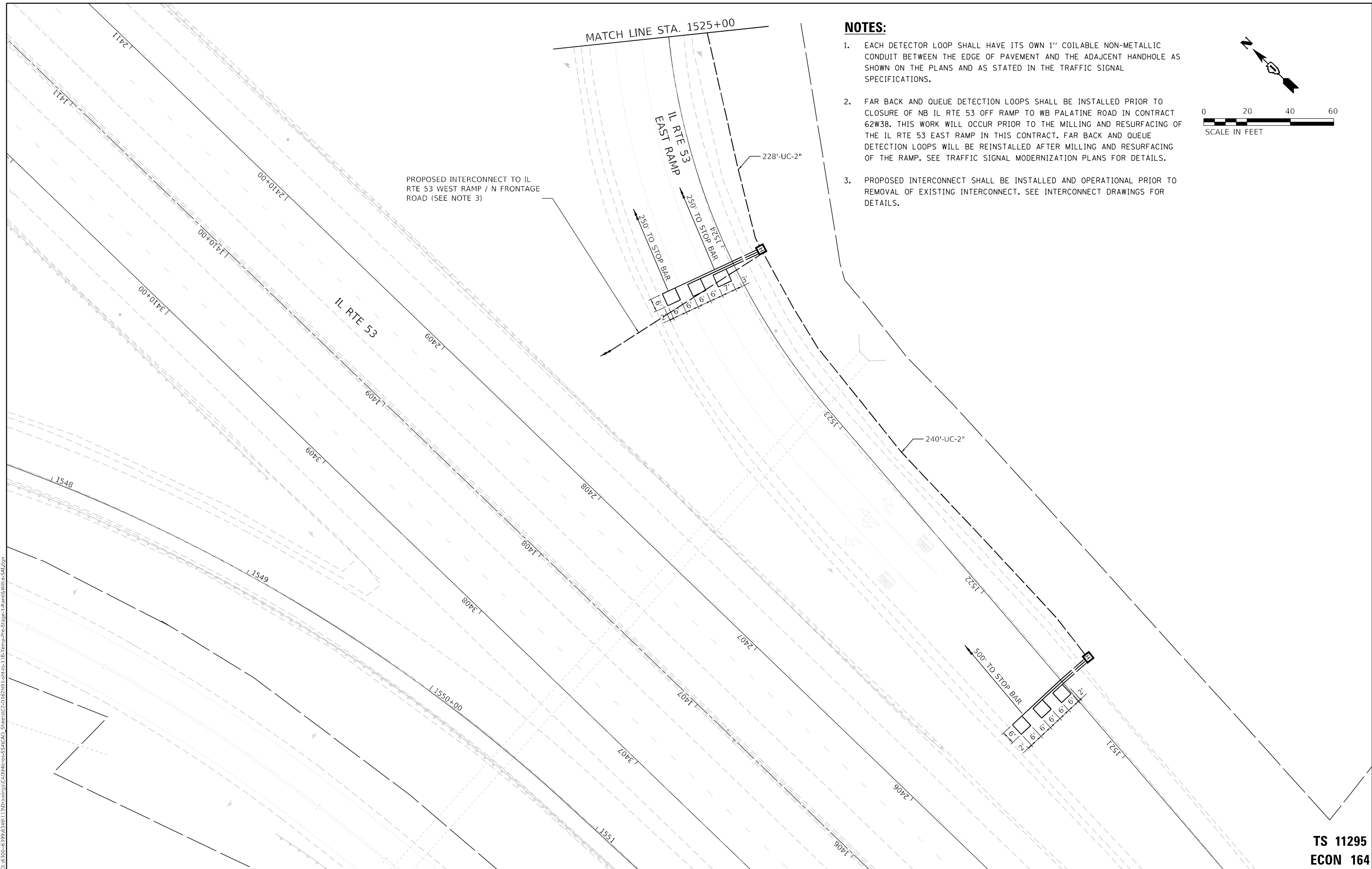
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PLOT SCALE = 40,0000 * / in.	DRAWN - ACM	REVISED -
PLOT DATE = 12/12/2024	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARTIAL TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
US RTE 12 (RAND ROAD) & IL RTE 53 EAST RAMP/N WILKE ROAD
 SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

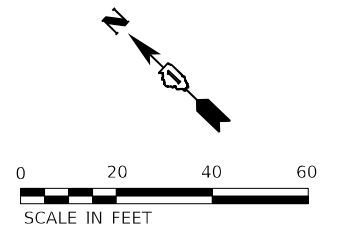
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	544
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

TS 11295
ECON 164



NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. FAR BACK AND QUEUE DETECTION LOOPS SHALL BE INSTALLED PRIOR TO CLOSURE OF NB IL RTE 53 OFF RAMP TO WB PALATINE ROAD IN CONTRACT 62W38. THIS WORK WILL OCCUR PRIOR TO THE MILLING AND RESURFACING OF THE IL RTE 53 EAST RAMP IN THIS CONTRACT. FAR BACK AND QUEUE DETECTION LOOPS WILL BE REINSTALLED AFTER MILLING AND RESURFACING OF THE RAMP. SEE TRAFFIC SIGNAL MODERNIZATION PLANS FOR DETAILS.
3. PROPOSED INTERCONNECT SHALL BE INSTALLED AND OPERATIONAL PRIOR TO REMOVAL OF EXISTING INTERCONNECT. SEE INTERCONNECT DRAWINGS FOR DETAILS.



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**TS 11295
ECON 164**



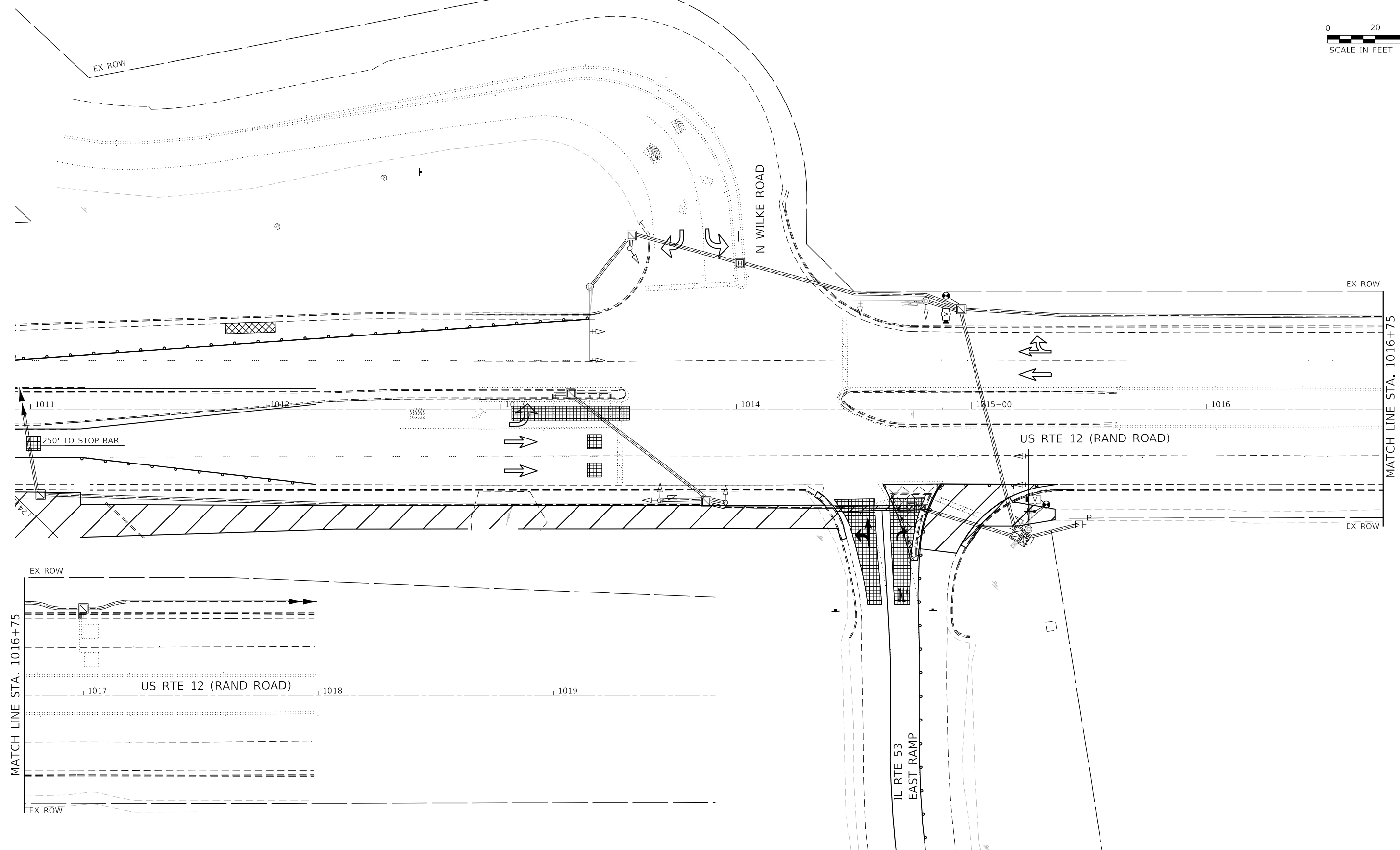
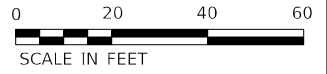
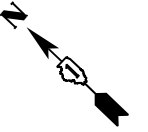
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DRAWN - ACM	REVISIONS	
PLOT SCALE = 40,0000 * / in.	CHECKED - KRH	REVISED -
PLOT DATE = 12/12/2024	DATE - 12/13/24	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PARTIAL TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN
US RTE 12 (RAND ROAD) & IL RTE 53 EAST RAMP/N WILKE ROAD**

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 545
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

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



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TS 11295
ECON 164



USER NAME = AlexAM	DESIGNED - RRS	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - ACM	REVISED -
PLOT DATE = 12/12/2024	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

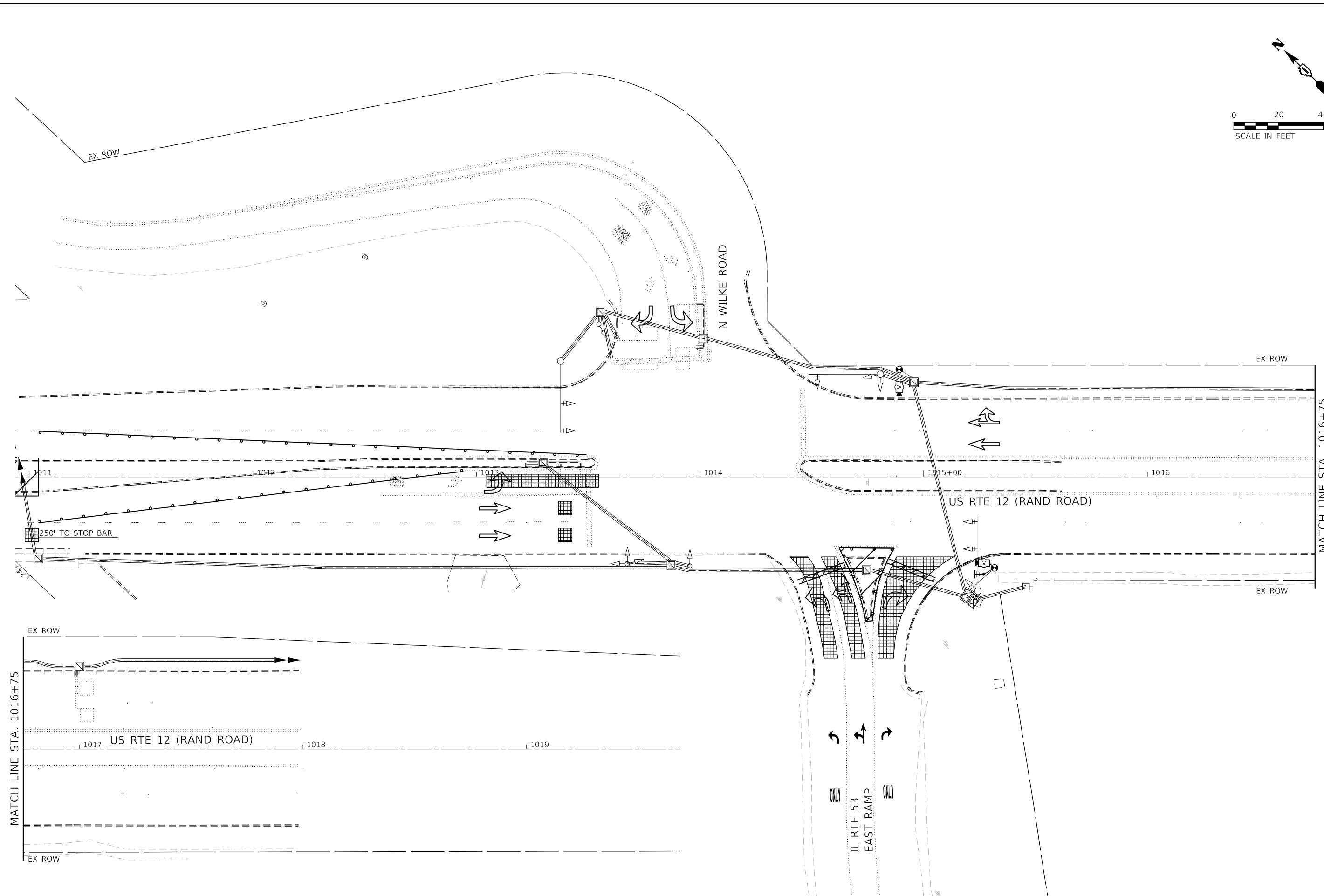
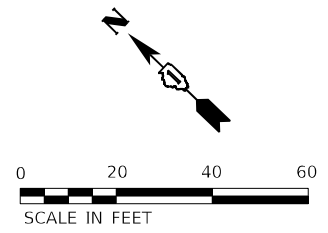
STAGE 1 PARTIAL TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
US RTE 12 (RAND ROAD) & IL RTE 53 EAST RAMP/N WILKE ROAD

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

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 546
ILLINOIS			FED. AID PROJECT	

MATCH LINE STA. 1016+75

MATCH LINE STA. 1016+75



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**TS 11295
ECON 164**



USER NAME = AlexAM	DESIGNED - RRS	REVISED -
DRAWN - ACM	REVISOR -	
PLOT SCALE = 40,0000 * / in.	CHECKED - KRH	REVISED -
PLOT DATE = 12/12/2024	DATE - 12/13/24	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

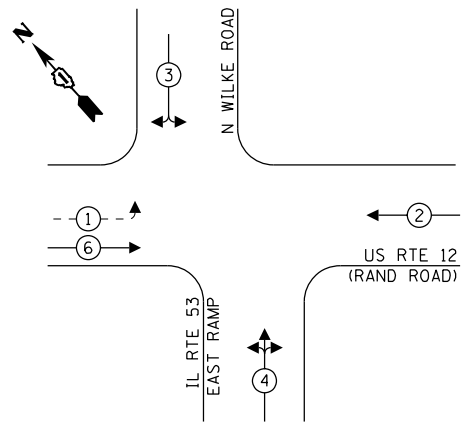
**STAGE 2 PARTIAL TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
US RTE 12 (RAND ROAD) & IL RTE 53 EAST RAMP/N WILKE ROAD**

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

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 547
ILLINOIS			FED. AID PROJECT	

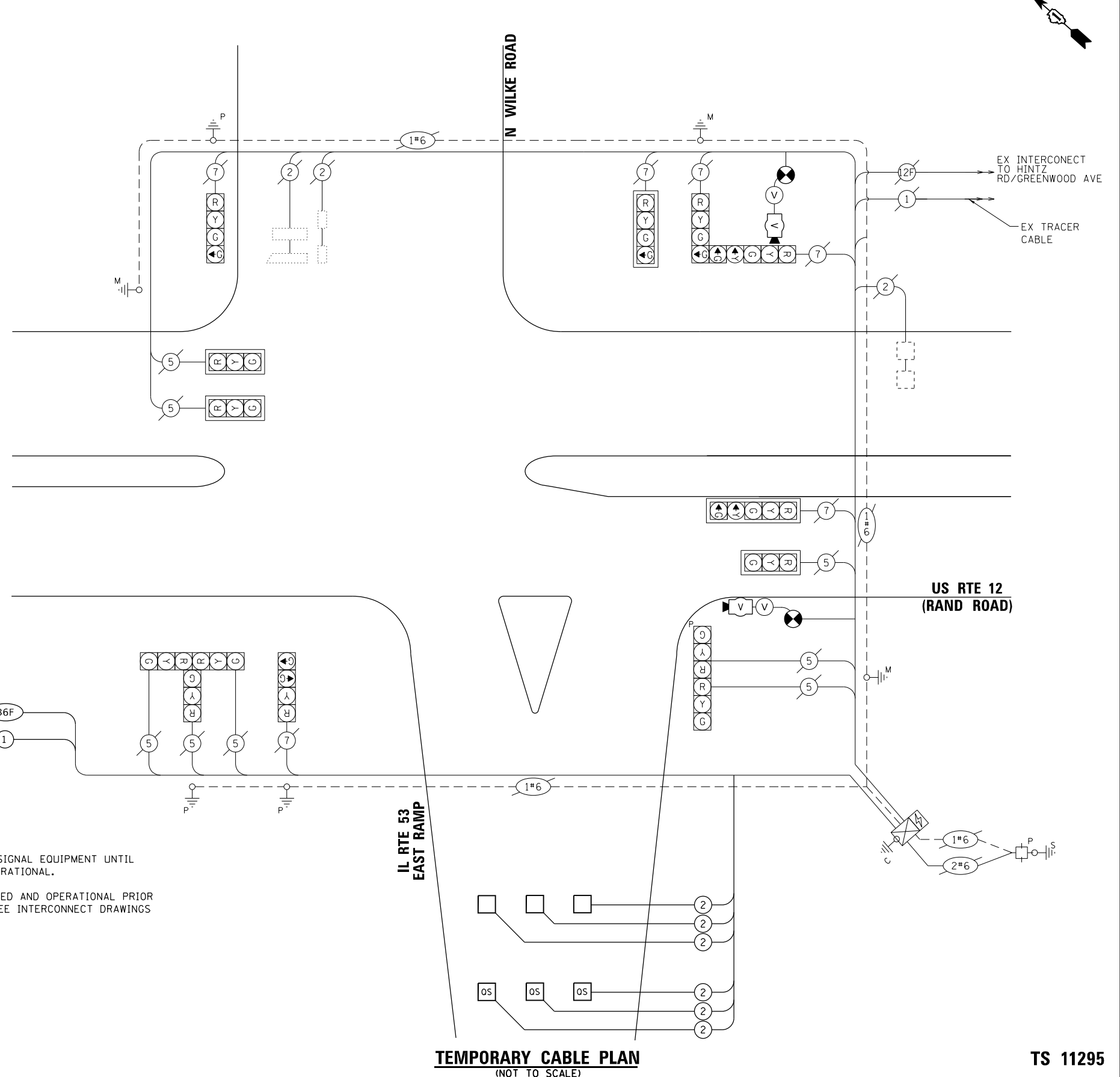
CONTRACT NO. 62N91

EXISTING AND TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- ← (⊛) ← PROTECTED PHASE
- ← - (⊛) - PROTECTED/PERMITTED PHASE
- ← - (⊛) → PEDESTRIAN PHASE
- ← (⊛) OL OVERLAP



NOTES:

1. CONTRACTOR SHALL NOT REMOVE EXISTING SIGNAL EQUIPMENT UNTIL PROPOSED SIGNALS ARE INSTALLED AND OPERATIONAL.
2. PROPOSED INTERCONNECT SHALL BE INSTALLED AND OPERATIONAL PRIOR TO REMOVAL OF EXISTING INTERCONNECT. SEE INTERCONNECT DRAWINGS FOR DETAILS.

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 W. CENTER CT
 SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: JAMES CAMPBELL
 PHONE: (630) 940-6805
 COMPANY: COMED
 ACCOUNT NUMBER: 7016200461
 METER NUMBER:

TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
1 OR 3 - SECTION	7	11	77
4 - SECTION	4	14	56
5 - SECTION	2	13	26
PROGRAMMABLE SIGNALS			
3 - SECTION	1	22	22
4 - SECTION		32	
5 - SECTION		28	
PED. SIGNAL			
CONTROLLER	1	150	150
MASTER CONTROLLER		100	
UPS	1	25	25
DETECTION RADAR OR VIDEO	2	20	40
BLANK-OUT SIGN		25	
NETWORK SWITCH II OR III		35	
CELLULAR MODEM		15	
TOTAL UPS SIZING			396
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER		15	
LED STREET NAME SIGN		120	
LUMINAIRE		240	
TOTAL SERVICE WIRE SIZING			1001

TEMPORARY CABLE PLAN
(NOT TO SCALE)

TS 11295
ECON 164

MODEL: D:\p4\p1\1170SOUTH\HOB\1170SOUTH\CAD\Drawings\SSA\CAD_Sheets\2018-100-12-Traffic-Cable_RPlan-RandWilke-541.dgn
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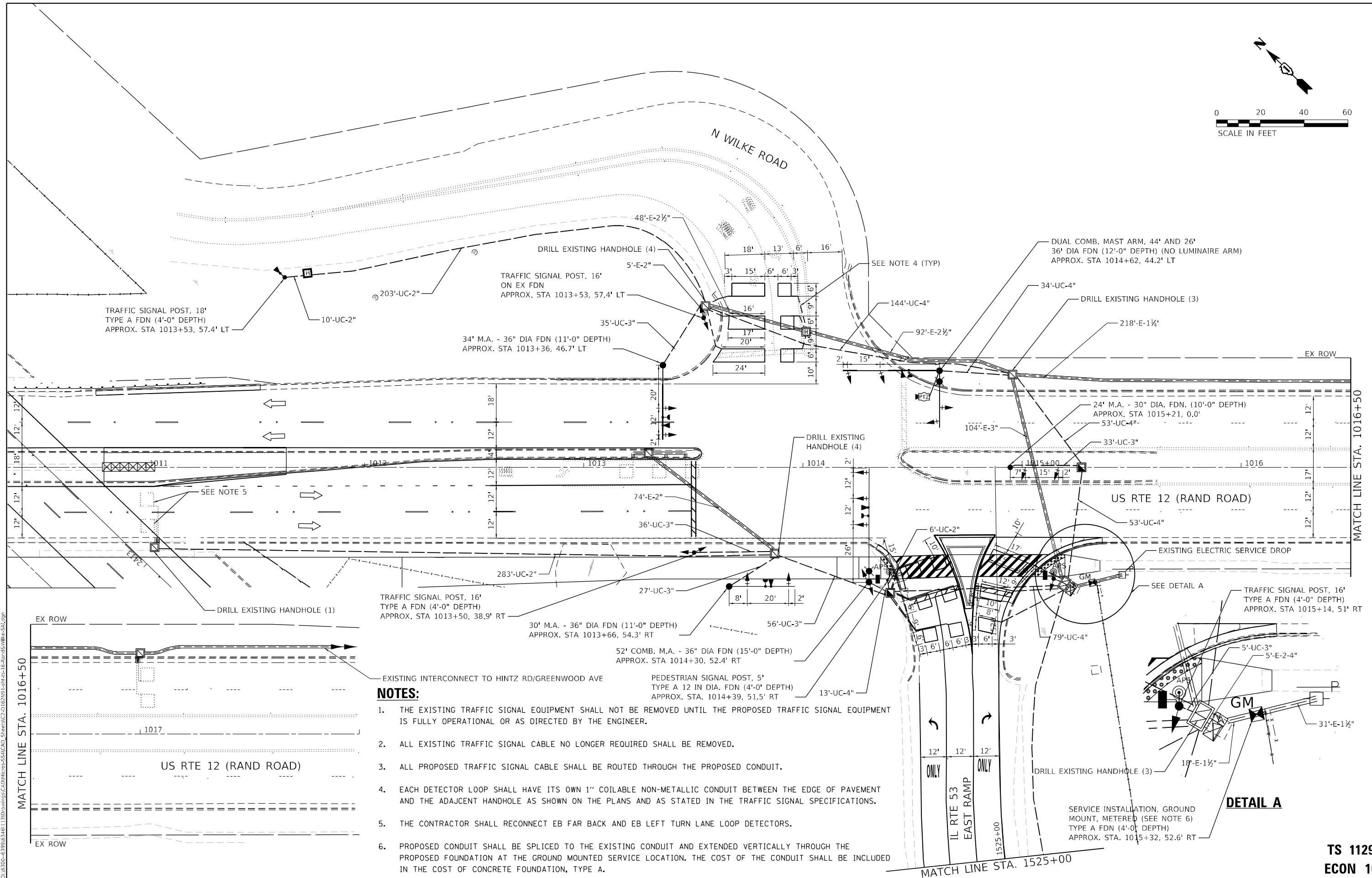
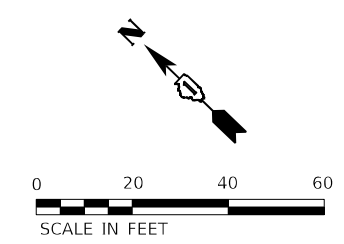
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PLOT SCALE = 20,0000 * / in.	DRAWN - ACM	REVISED -
PLOT DATE = 12/12/2024	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALL STAGES PARTIAL TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 12 (RAND ROAD) AND IL RTE 53 EAST RAMP/N WILKE ROAD

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	548
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
4. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
5. THE CONTRACTOR SHALL RECONNECT EB FAR BACK AND EB LEFT TURN LANE LOOP DETECTORS.
6. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE LOCATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A.

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 FILE NAME: S:\01_16300-03299\B346113\Drawings\CD\Micro-SSA\CAD_Sheets\CD-016299-1-Int-15-16-RandRd\W16-SSA.dgn
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200
 STRAND ASSOCIATES

USER NAME = AlexAM
 DESIGNED - RRS
 DRAWN - ACM
 CHECKED - KRH
 DATE - 12/13/24
 PLOT SCALE = 40,0000 * / in.
 PLOT DATE = 12/12/2024

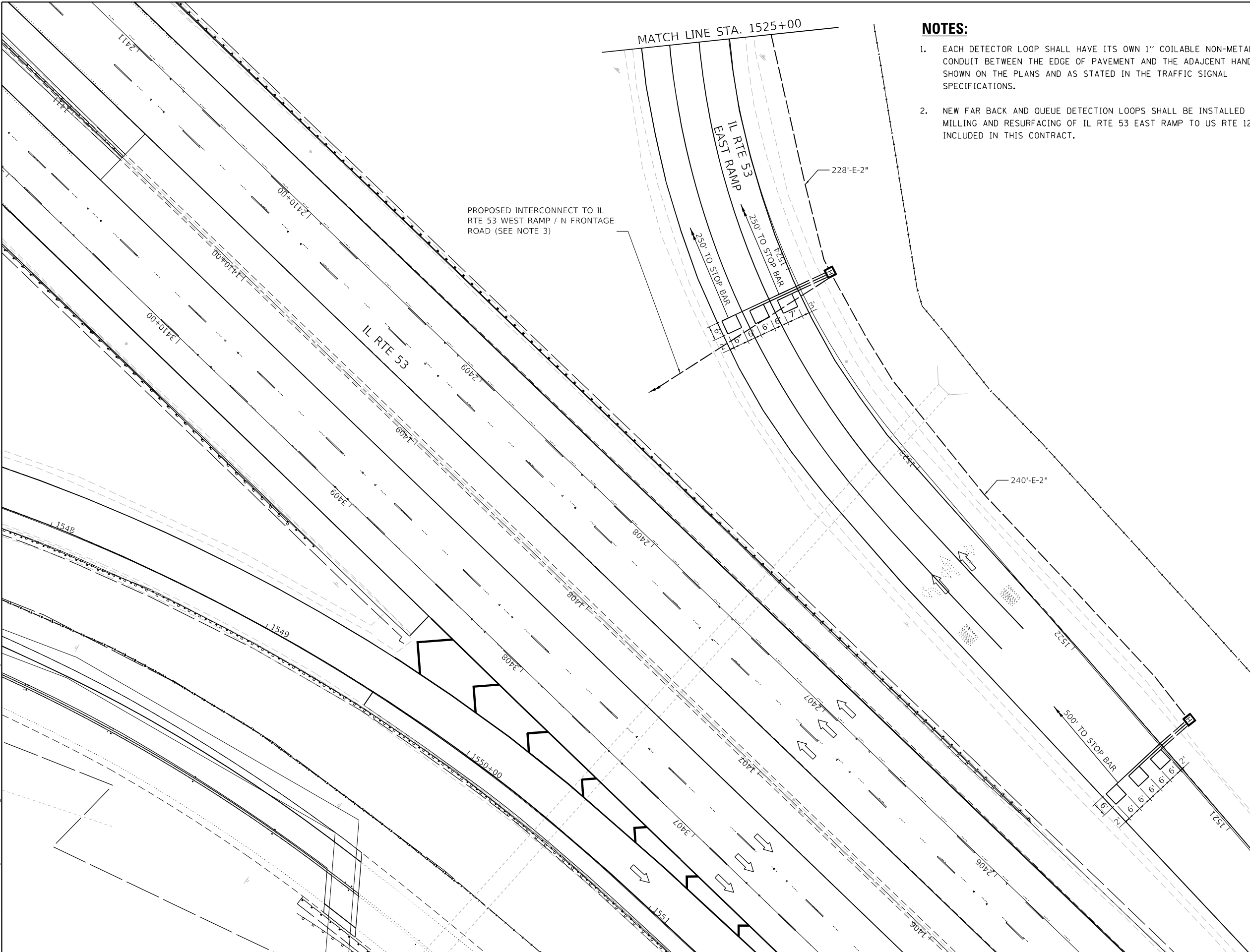
REVISIONS:
 REVISED -
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 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLANS
US RTE 12 (RAND ROAD) AND IL RTE 53 EAST RAMP/N WILKE ROAD
 SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

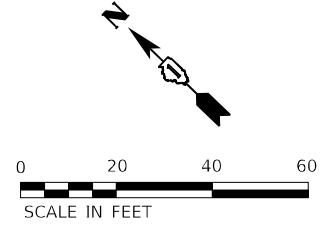
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	549
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

TS 11295
ECON 164



NOTES:

- 1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
- 2. NEW FAR BACK AND QUEUE DETECTION LOOPS SHALL BE INSTALLED AFTER MILLING AND RESURFACING OF IL RTE 53 EAST RAMP TO US RTE 12 INCLUDED IN THIS CONTRACT.



PROPOSED INTERCONNECT TO IL RTE 53 WEST RAMP / N FRONTAGE ROAD (SEE NOTE 3)

MATCH LINE STA. 1525+00

IL RTE 53 EAST RAMP

IL RTE 53

IL RTE 12

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**TS 11295
ECON 164**



USER NAME = AlexAM	DESIGNED - RRS	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - ACM	REVISED -
PLOT DATE = 12/12/2024	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

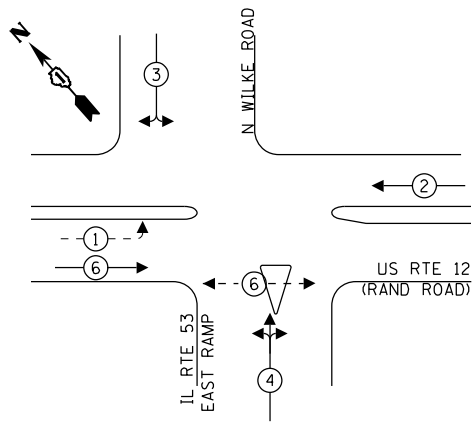
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLANS
US RTE 12 (RAND ROAD) AND IL RTE 53 EAST RAMP/N WILKE ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	550
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

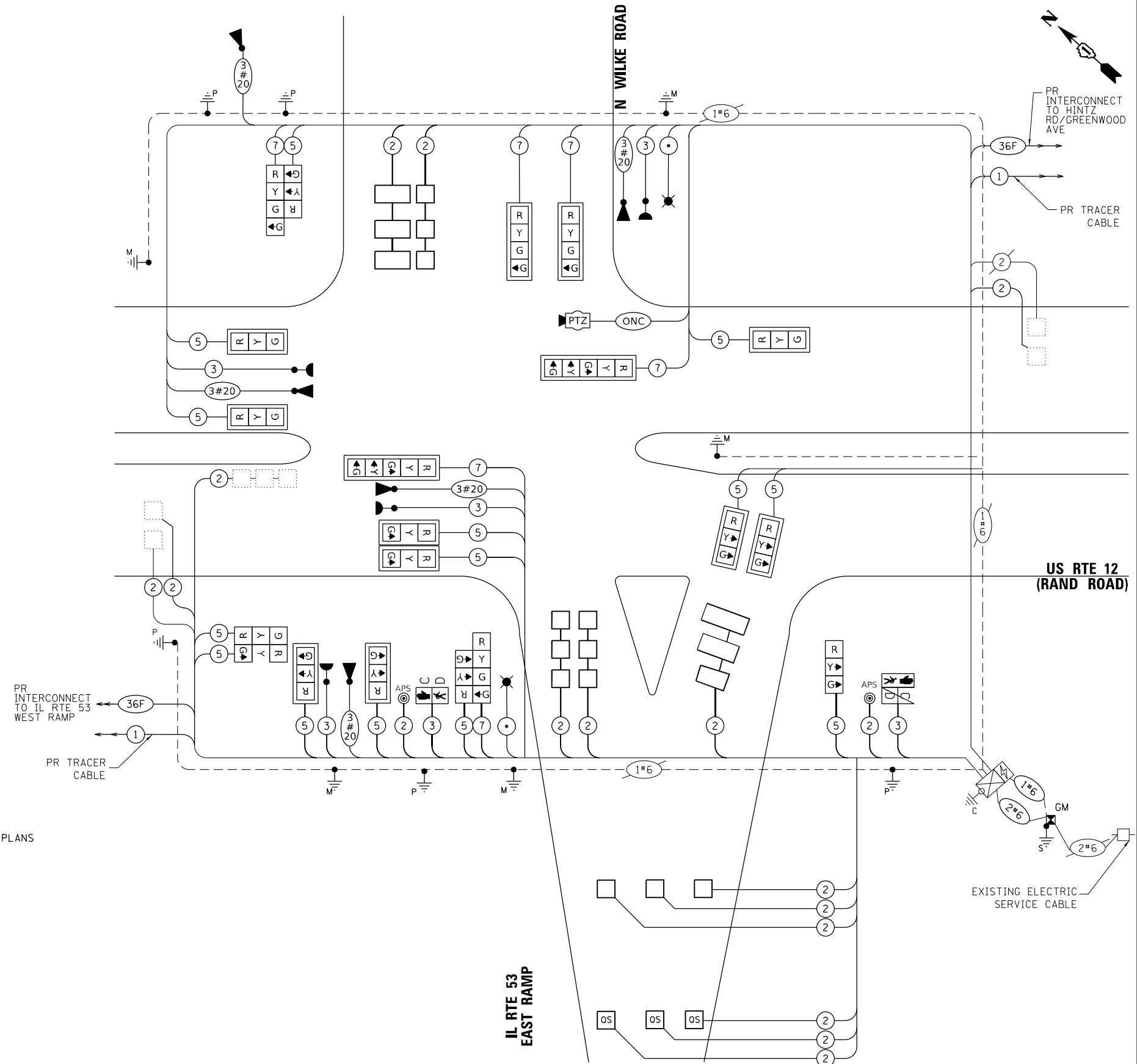
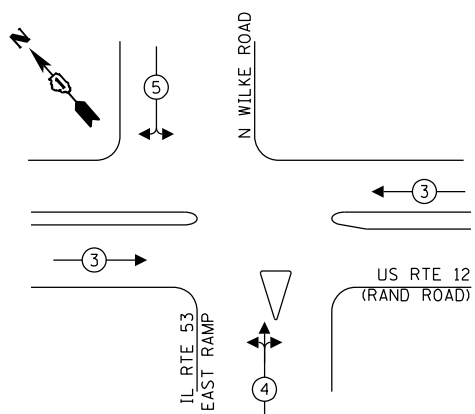
PROPOSED CONTROLLER SEQUENCE



LEGEND:

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

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN
(NOT TO SCALE)

-- SEE ROADWAY LIGHTING PLANS

TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
1 OR 3 - SECTION	14	11	154
4 - SECTION	4	14	56
5 - SECTION	2	13	26
PROGRAMMABLE SIGNALS			
3 - SECTION		22	
4 - SECTION		32	
5 - SECTION		28	
PED. SIGNAL	2	15	30
CONTROLLER	1	150	150
MASTER CONTROLLER		100	
UPS	1	25	25
DETECTION RADAR OR VIDEO		20	
BLANK-OUT SIGN		25	
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM		15	
PTZ CAMERA	1	75	75
TOTAL UPS SIZING			551
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER		15	
LED STREET NAME SIGN		120	
LUMINAIRE	2	240	480
TOTAL SERVICE WIRE SIZING			1636

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W. CENTER CT
SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: JAMES CAMPBELL
PHONE: (630) 940-6805
COMPANY: COMED
ACCOUNT NUMBER: 7016200461
METER NUMBER:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND
EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 12 (RAND ROAD) AND IL RTE 53 EAST RAMP/N WILKE ROAD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	551
				CONTRACT NO. 62N91

TS 11295
ECON 164

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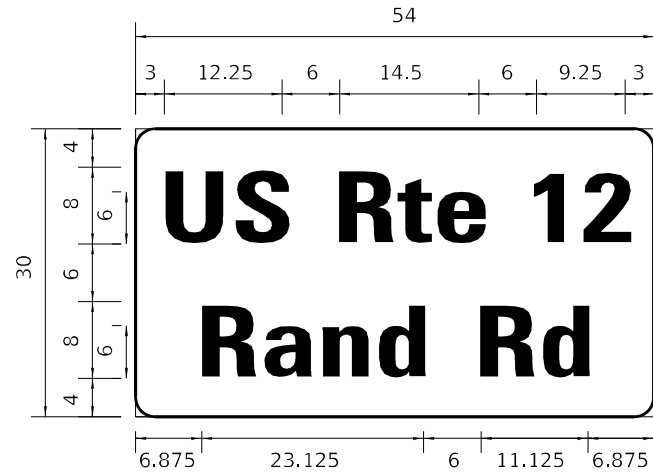
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	DATE - 12/13/24	REVISED -

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

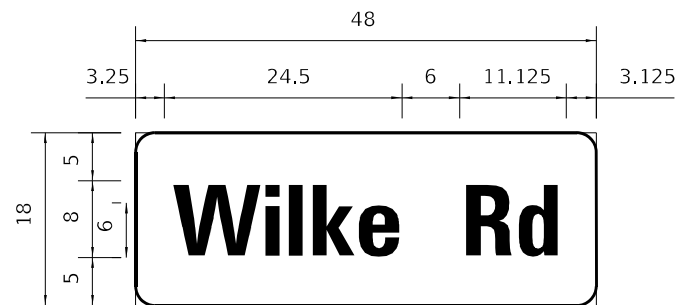
ILLINOIS FED. AID PROJECT

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	11.25	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6	1	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	12.0
SIGN PANEL - TYPE 2	SQ FT	22.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	970
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	192
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	376
HANDHOLE	EACH	2
HEAVY-DUTY HANDHOLE	EACH	3
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	164
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,258
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,026
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,364
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3,942
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	28
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,020
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	49
DRILL EXISTING HANDHOLE	EACH	15
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	13
INDUCTIVE LOOP DETECTOR	EACH	7
DETECTOR LOOP, TYPE I	FOOT	924
*LIGHT DETECTOR	EACH	5
*LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,600
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
*EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1,615
CENTRACS LICENSE EXPANSION	EACH	1
TERMINAL SERVER	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	227
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	2
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
LED SIGNAL FACE, LENS COVER	EACH	20
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 44 FT. AND 26 FT.	EACH	1

*100% COST TO THE VILLAGE OF ARLINGTON HEIGHTS

TS 11295
ECON 164

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PLOT DATE = 12/12/2024	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
US RTE 12 (RAND RD) AND IL RTE 53 EAST RAMP/ WILKE ROAD

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

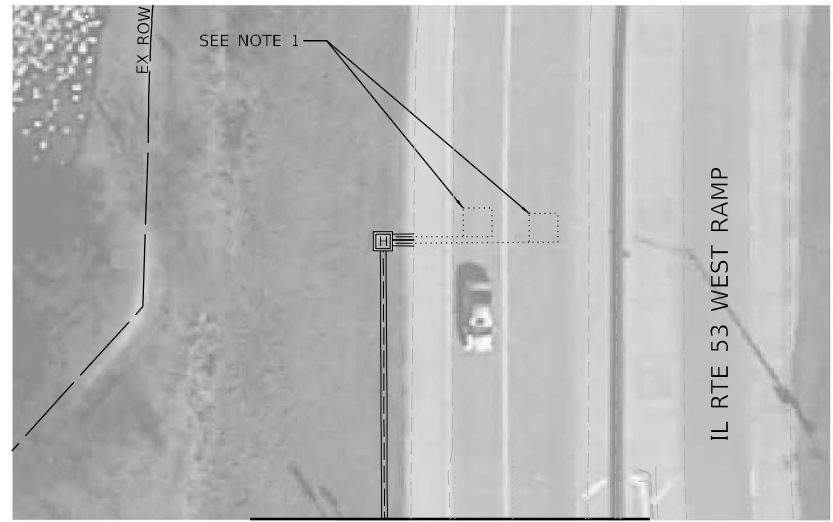
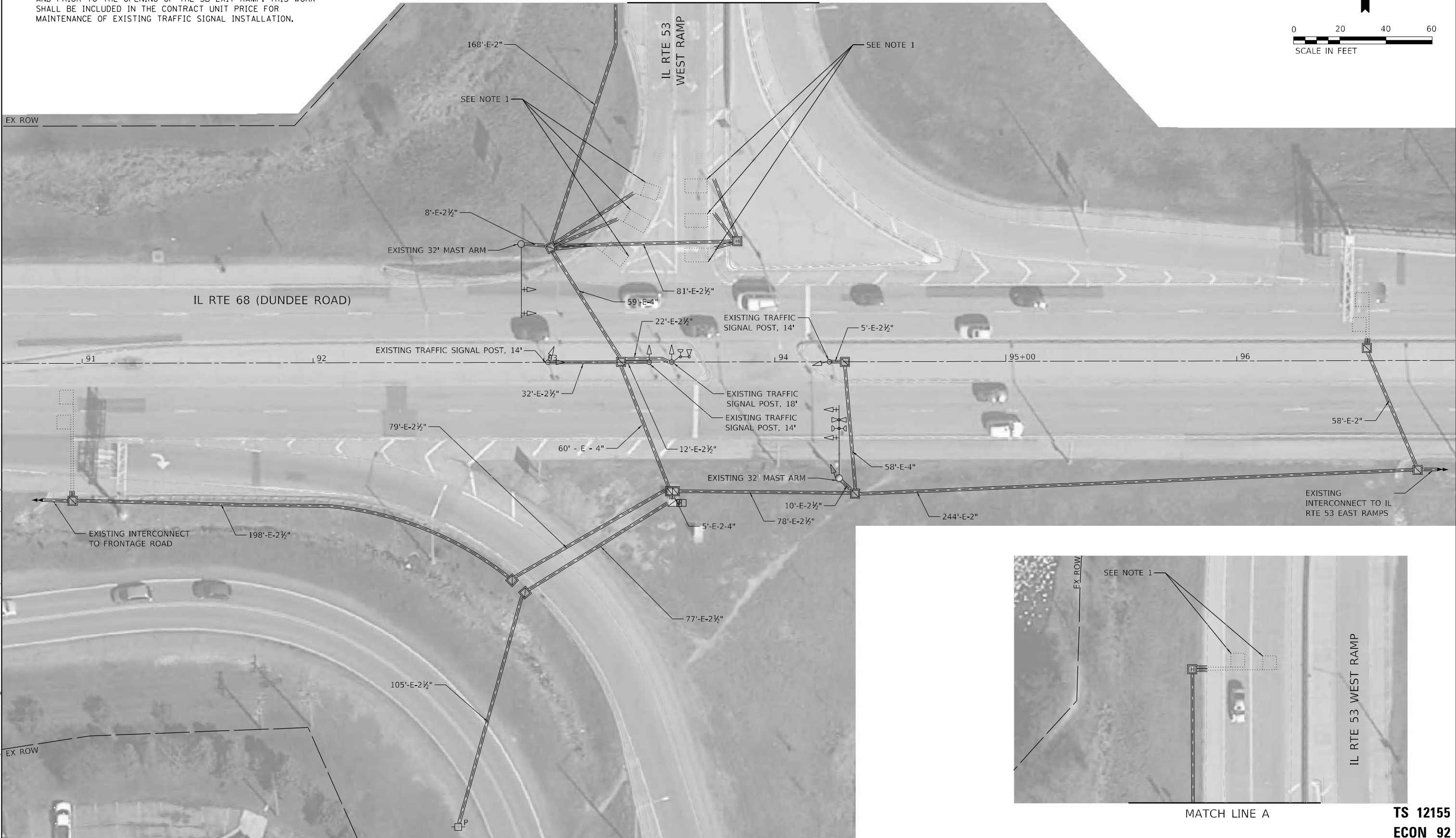
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	552
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

NOTES:

- IL RTE 53 SB EXIT RAMP AT DUNDEE ROAD WILL BE CLOSED DURING PRESTAGE. PRIOR TO PRESTAGE, THE CONTRACTOR SHALL DISCONNECT THE EXISTING SB EXIT RAMP UPTIGHT AND FAR BACK LOOP DETECTORS IN THE TRAFFIC SIGNAL CABINET. THE CONTRACTOR SHALL RECONNECT THE LOOPS AFTER THE COMPLETION OF PRESTAGE AND PRIOR TO THE OPENING OF THE SB EXIT RAMP. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION.



MATCH LINE A



MATCH LINE A

TS 12155
ECON 92

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USER NAME = AlexAM	DESIGNED - RRS	REVISED -
DRAWN - ACM	REVISIONS -	
PLOT SCALE = 40,0000 * / in.	CHECKED - KRH	REVISED -
PLOT DATE = 1/22/2025	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRESTAGE TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
IL RTE 68 (DUNDEE ROAD) AT IL RTE 53 WEST RAMPS
SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	552A
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

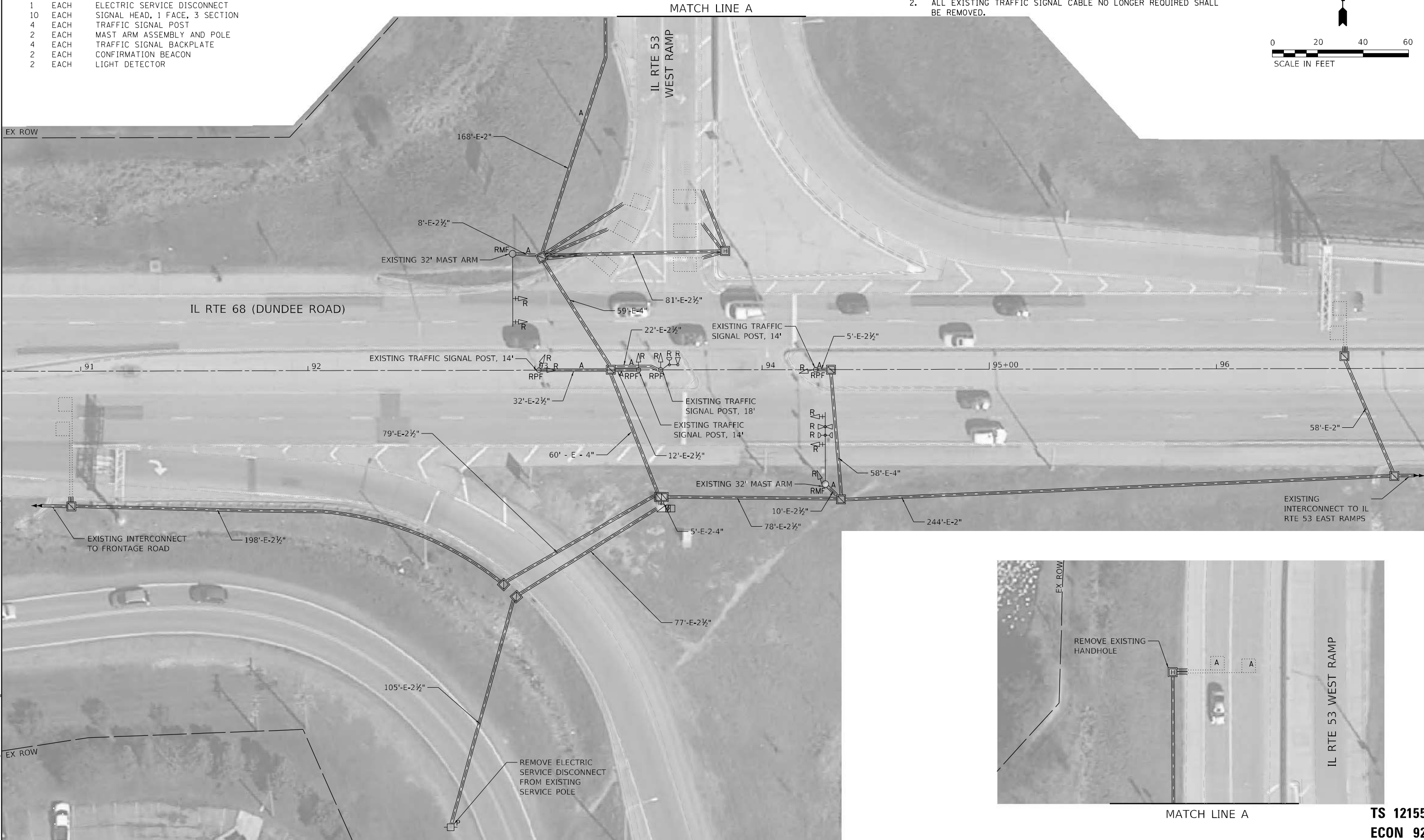
REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH ELECTRIC SERVICE DISCONNECT
- 10 EACH SIGNAL HEAD, 1 FACE, 3 SECTION
- 4 EACH TRAFFIC SIGNAL POST
- 2 EACH MAST ARM ASSEMBLY AND POLE
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR

NOTES:

- 1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
- 2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.



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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = AlexAM	DESIGNED - RRS	REVISED -
DRAWN - ACM	REVISED -	
PLOT SCALE = 40,0000 */ in.	CHECKED - KRH	REVISED -
PLOT DATE = 12/12/2024	DATE - 12/13/24	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL REMOVAL AND RELOCATION PLAN
IL RTE 68 (DUNDEE ROAD) AT IL RTE 53 WEST RAMPS**

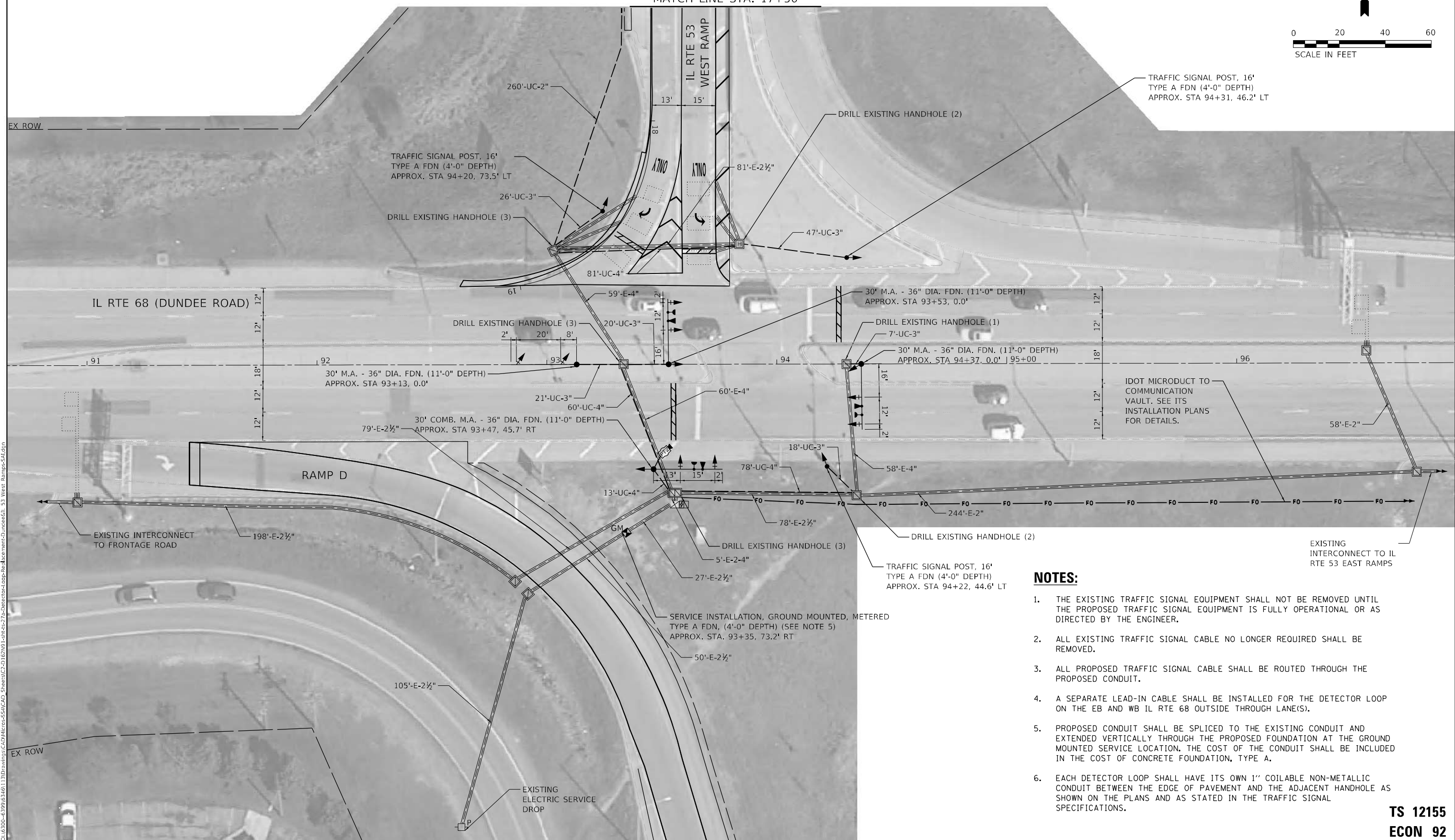
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	553
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

**TS 12155
ECON 92**

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



MATCH LINE STA. 17+50



NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
4. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOP ON THE EB AND WB IL RTE 68 OUTSIDE THROUGH LANE(S).
5. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE LOCATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A.
6. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

TS 12155
ECON 92

MODEL: D:\p4\h...
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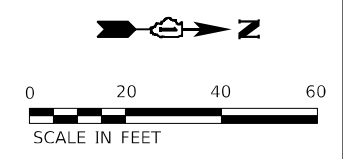
USER NAME = AlexAM	DESIGNED - RRS	REVISED -
DRAWN - ACM	REVISED -	
PLOT SCALE = 40,0000 * / in.	CHECKED - KRH	REVISED -
PLOT DATE = 12/12/2024	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLANS
IL RTE 68 (DUNDEE ROAD) AT IL RTE 53 WEST RAMPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	554
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

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



NOTES:

1. THE EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL NOT BE REMOVED UNTIL THE PROPOSED TRAFFIC SIGNAL EQUIPMENT IS FULLY OPERATIONAL OR AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING TRAFFIC SIGNAL CABLE NO LONGER REQUIRED SHALL BE REMOVED.
3. ALL PROPOSED TRAFFIC SIGNAL CABLE SHALL BE ROUTED THROUGH THE PROPOSED CONDUIT.
4. A SEPARATE LEAD-IN CABLE SHALL BE INSTALLED FOR THE DETECTOR LOOP ON THE EB AND WB IL RTE 68 OUTSIDE THROUGH LANE(S).
5. PROPOSED CONDUIT SHALL BE SPLICED TO THE EXISTING CONDUIT AND EXTENDED VERTICALLY THROUGH THE PROPOSED FOUNDATION AT THE GROUND MOUNTED SERVICE LOCATION. THE COST OF THE CONDUIT SHALL BE INCLUDED IN THE COST OF CONCRETE FOUNDATION, TYPE A.
6. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

**TS 12155
ECON 92**

MODEL: D:\p4\h\1170SOUTH\1170SOUTH\1170SOUTH\CADD\Micros-SSA\CAD_Sheets\C2-0162N91-1.rvt-11-27-24\Director-Cop-Republishement-Dundeel\11_53 West_Ramps-5A.dgn
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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = AlexAM	DESIGNED - RRS	REVISED -
	DRAWN - ACM	REVISED -
PLOT SCALE = 40,0000 */ in.	CHECKED - KRH	REVISED -
PLOT DATE = 12/12/2024	DATE - 12/13/24	REVISED -

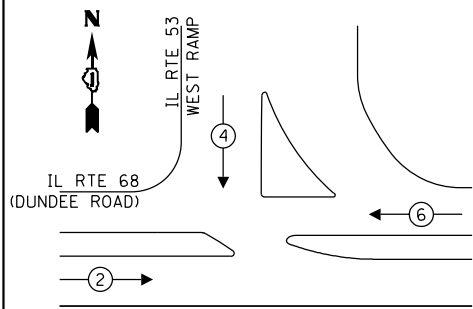
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**TRAFFIC SIGNAL MODERNIZATION PLANS
IL RTE 68 (DUNDEE ROAD) AT IL RTE 53 WEST RAMPS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	555
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

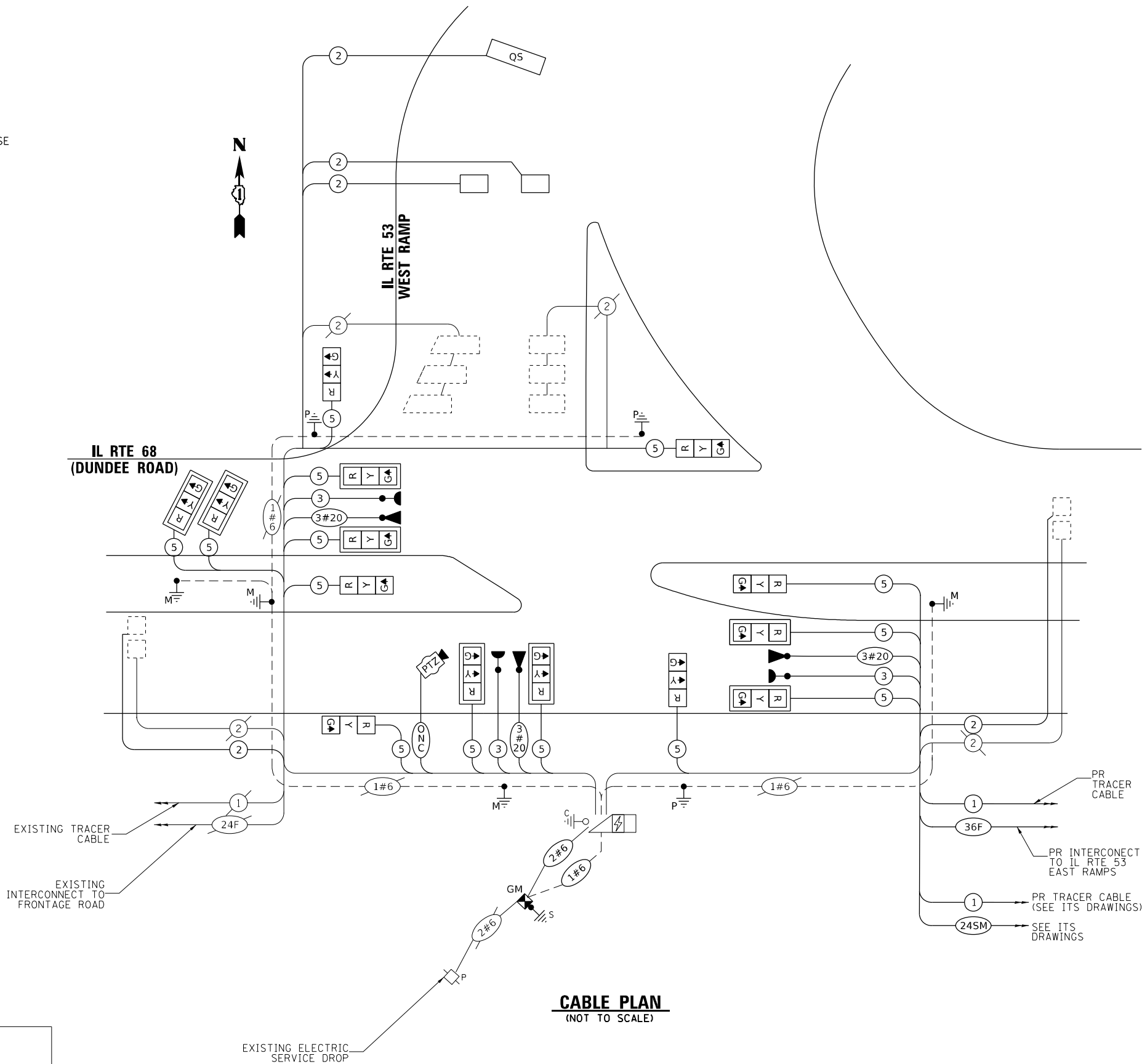
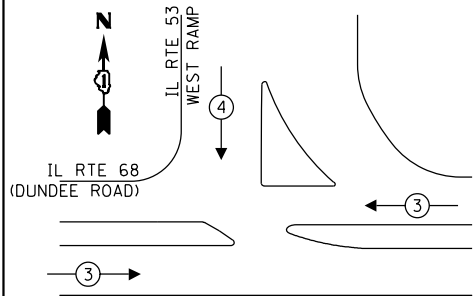
EXISTING AND PROPOSED CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP
- HOT RIGHT

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
1 OR 3 - SECTION	14	11	154
4 - SECTION		14	
5 - SECTION		13	
PROGRAMMABLE SIGNALS			
3 - SECTION		22	
4 - SECTION		32	
5 - SECTION		28	
PED. SIGNAL		15	
CONTROLLER	1	150	150
MASTER CONTROLLER		100	
UPS	1	25	25
DETECTION RADAR OR VIDEO		20	
BLANK-OUT SIGN		25	
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM		15	
PTZ CAMERA	1	75	75
TOTAL UPS SIZING			439
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER		15	
LED STREET NAME SIGN		120	
LUMINAIRE		240	
TOTAL SERVICE WIRE SIZING			1044

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W. CENTER CT
SCHAUMBURG, IL 60196
ENERGY SUPPLY: CONTACT: JAMES CAMPBELL
PHONE: (630) 940-6805
COMPANY: COMED
ACCOUNT NUMBER: 7016200461
METER NUMBER:

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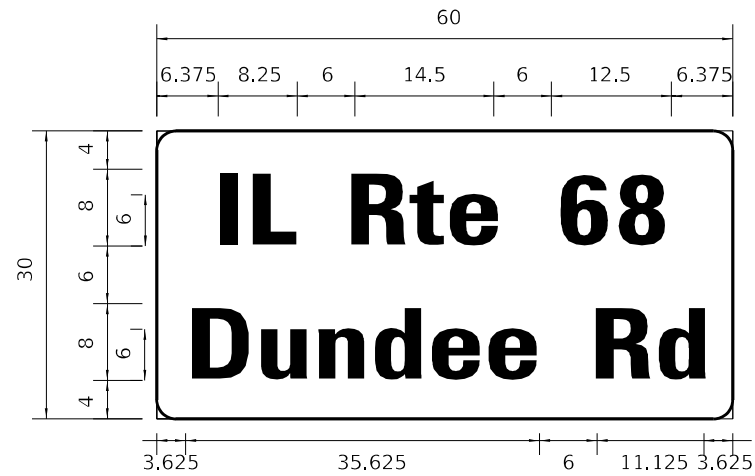
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PLOT SCALE = 20,0000 * / in.	DRAWN - ACM	REVISED -
PLOT DATE = 12/12/2024	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS	CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DEPARTMENT OF TRANSPORTATION	EMERGENCY VEHICLE PREEMPTION SEQUENCE	342	2018-100-BR	COOK	1351	556
	IL RTE 68 (DUNDEE ROAD) AT IL RTE 53 WEST RAMP	CONTRACT NO. 62N91				
	SCALE: N.T.S.	SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		

TS 12155
ECON 92

SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 2	SQ FT	12.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	516
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	139
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	232
HEAVY-DUTY HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	490
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,279
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,260
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	37
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	450
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	3
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	44
DRILL EXISTING HANDHOLE	EACH	14
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	123
* LIGHT DETECTOR	EACH	3
* LIGHT DETECTOR AMPLIFIER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,496
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	490
CENTRACS LICENSE EXPANSION	EACH	1
TERMINAL SERVER	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	81
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATA LINK) SWITCH	EACH	1
UPGRADE EXISTING CONTROLLER TO NTCIP SPECIAL	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	2
LED SIGNAL FACE, LENS COVER	EACH	14
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

*100% COST TO THE VILLAGE OF PALATINE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL RTE 68 (DUNDEE RD) AND IL RTE 53 WEST RAMPS

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

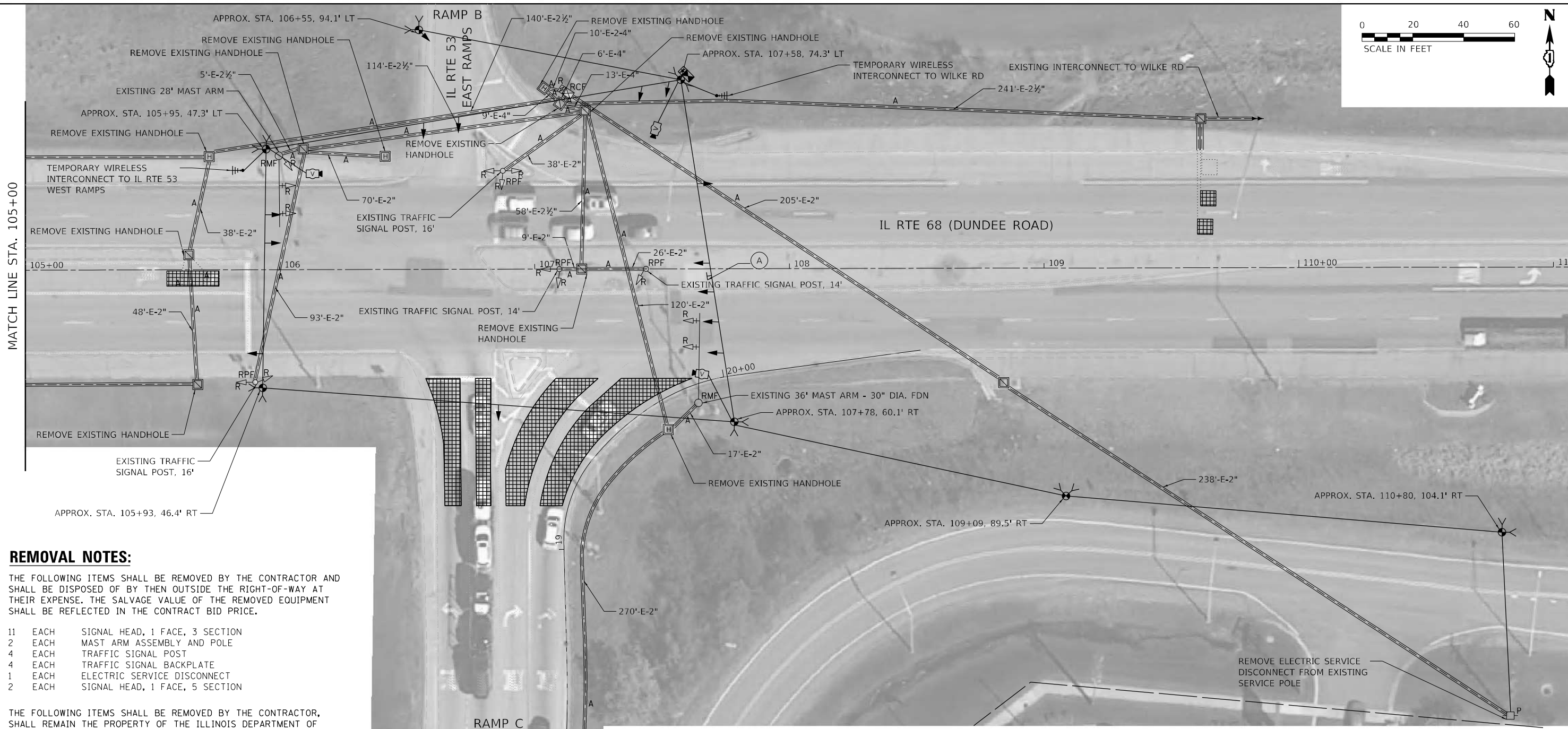
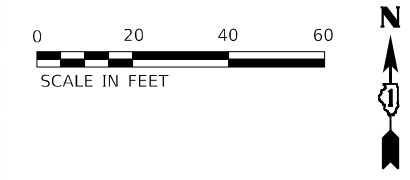
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	557
				CONTRACT NO. 62N91
				ILLINOIS FED. AID PROJECT

TS 12155
ECON 92

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USER NAME = AlexAM	DESIGNED - RRS	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - ACM	REVISED -
PLOT DATE = 12/12/2024	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -



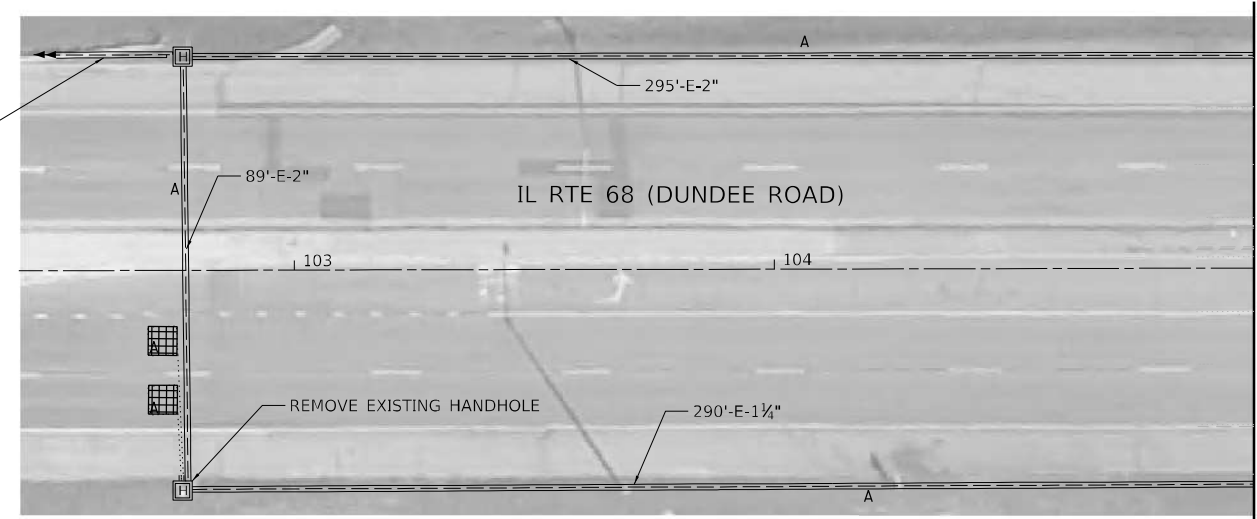
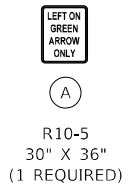
REMOVAL NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 11 EACH SIGNAL HEAD, 1 FACE, 3 SECTION
- 2 EACH MAST ARM ASSEMBLY AND POLE
- 4 EACH TRAFFIC SIGNAL POST
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 1 EACH ELECTRIC SERVICE DISCONNECT
- 2 EACH SIGNAL HEAD, 1 FACE, 5 SECTION

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, AND SHALL BE DELIVERED BY THE CONTRACTOR TO IDOT'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY.

- 1 EACH UNINTERRUPTABLE POWER SUPPLY
- 1 EACH CONTROLLER AND CABINET (COMPLETE)



MATCH LINE STA. 105+00

TS 12160
ECON 92

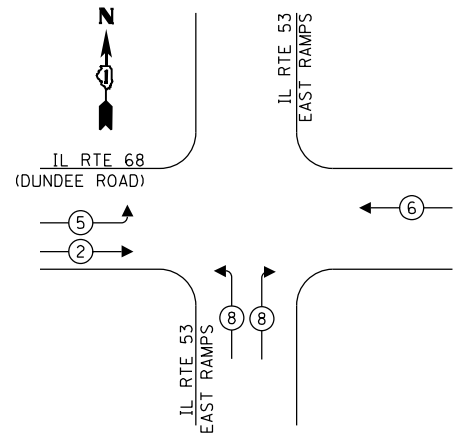
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DRAWN - ACM	REVISED -	
PLOT SCALE = 40,0000 */ in.	CHECKED - KRH	REVISED -
PLOT DATE = 12/12/2024	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN IL RTE 68 (DUNDEE ROAD) AT IL RTE 53 EAST RAMPS
SCALE: 1" = 20'
SHEET 1 OF 1 SHEETS STA. TO STA.

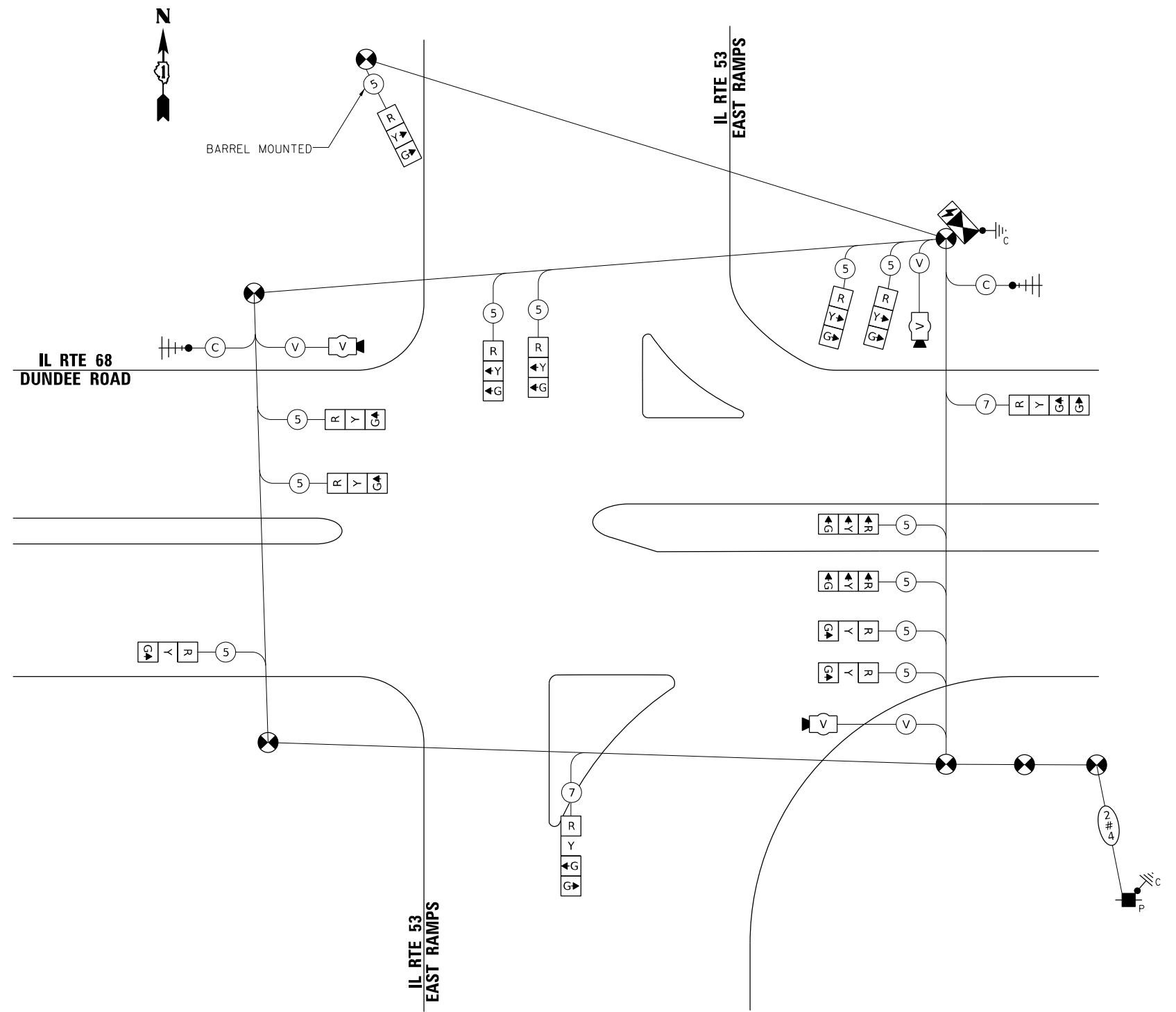
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	558
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

**EXISTING AND TEMPORARY
CONTROLLER SEQUENCE**



LEGEND:

- ← ⊗ → PROTECTED PHASE
- ← ⊗ - - PROTECTED/PERMITTED PHASE
- ← ⊗ → PEDESTRIAN PHASE
- ← ⊗ OL → OVERLAP



TEMPORARY CABLE PLAN
(NOT TO SCALE)

**TRAFFIC SIGNAL
ELECTRIC SERVICE REQUIREMENTS**

TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
1 OR 3 - SECTION	12	11	132
4 - SECTION	2	14	28
5 - SECTION		13	
PROGRAMMABLE SIGNALS			
3 - SECTION		22	
4 - SECTION		32	
5 - SECTION		28	
PED. SIGNAL		15	
CONTROLLER	1	150	150
MASTER CONTROLLER		100	
UPS	1	25	25
DETECTION RADAR OR VIDE	3	20	60
BLANK-OUT SIGN		25	
NETWORK SWITCH II OR III		35	
CELLULAR MODEM		15	
PTZ CAMERA		75	
TOTAL UPS SIZING			395
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER		15	
LED STREET NAME SIGN		120	
LUMINAIRE		240	
TOTAL SERVICE WIRE SIZING			1000

ENERGY COSTS TO:

VILLAGE OF ARLINGTON HEIGHTS
33 S. ARLINGTON HEIGHTS RD
ARLINGTON HEIGHTS, IL 60005

ENERGY SUPPLY: CONTACT JAMES CAMPBELL
PHONE: (630) 940-6805

ACCOUNT NUMBER:
METER NUMBER:

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1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = AlExaM	DESIGNED - RRS	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN - ACM	REVISED -
PLOT DATE = 12/12/2024	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

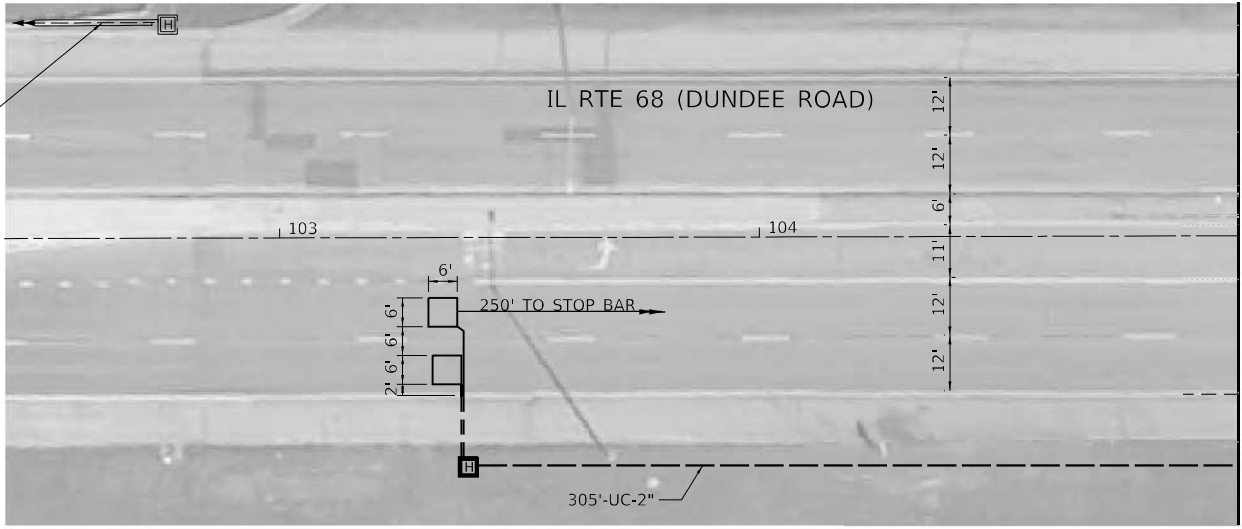
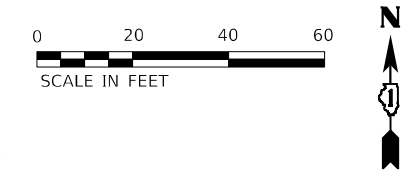
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM
IL RTE 68 (DUNDEE ROAD) AT IL RTE 53 EAST RAMP**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	559
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

**TS 12160
ECON 92**



MODEL: D:\p4\1130\Drawings\CD\MicroStation\CAD_Sheets\C2-0162\N91-Int-15-26a-Traffic_Signal_Modernization-Dundee&I_53_East_Ramps-SA1.dgn
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USER NAME = AlexAM	DESIGNED - RRS	REVISED -
DRAWN - ACM	REVISED -	
PLOT SCALE = 40,0000 * / in.	CHECKED - KRH	REVISED -
PLOT DATE = 12/12/2024	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLANS
IL RTE 68 (DUNDEE ROAD) AT IL RTE 53 EAST RAMPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	560
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

MATCH LINE STA. 105+00

**TS 12160
ECON 92**

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USER NAME = AlexAM
DESIGNED - RRS
DRAWN - ACM
PLOT SCALE = 40,0000 */ in.
PLOT DATE = 12/12/2024

DESIGNED - RRS
DRAWN - ACM
CHECKED - KRH
DATE - 12/13/24
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

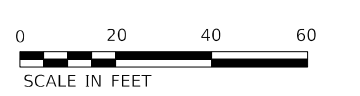
**TRAFFIC SIGNAL MODERNIZATION PLANS
IL RTE 68 (DUNDEE ROAD) AT IL RTE 53 EAST RAMPS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	561
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

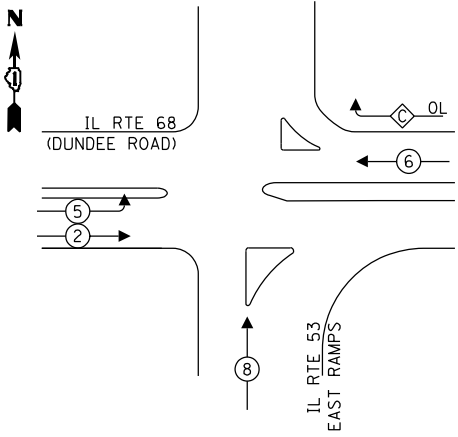
NOTES:

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



**TS 12160
ECON 92**

EXISTING AND PROPOSED CONTROLLER SEQUENCE



LEGEND:

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

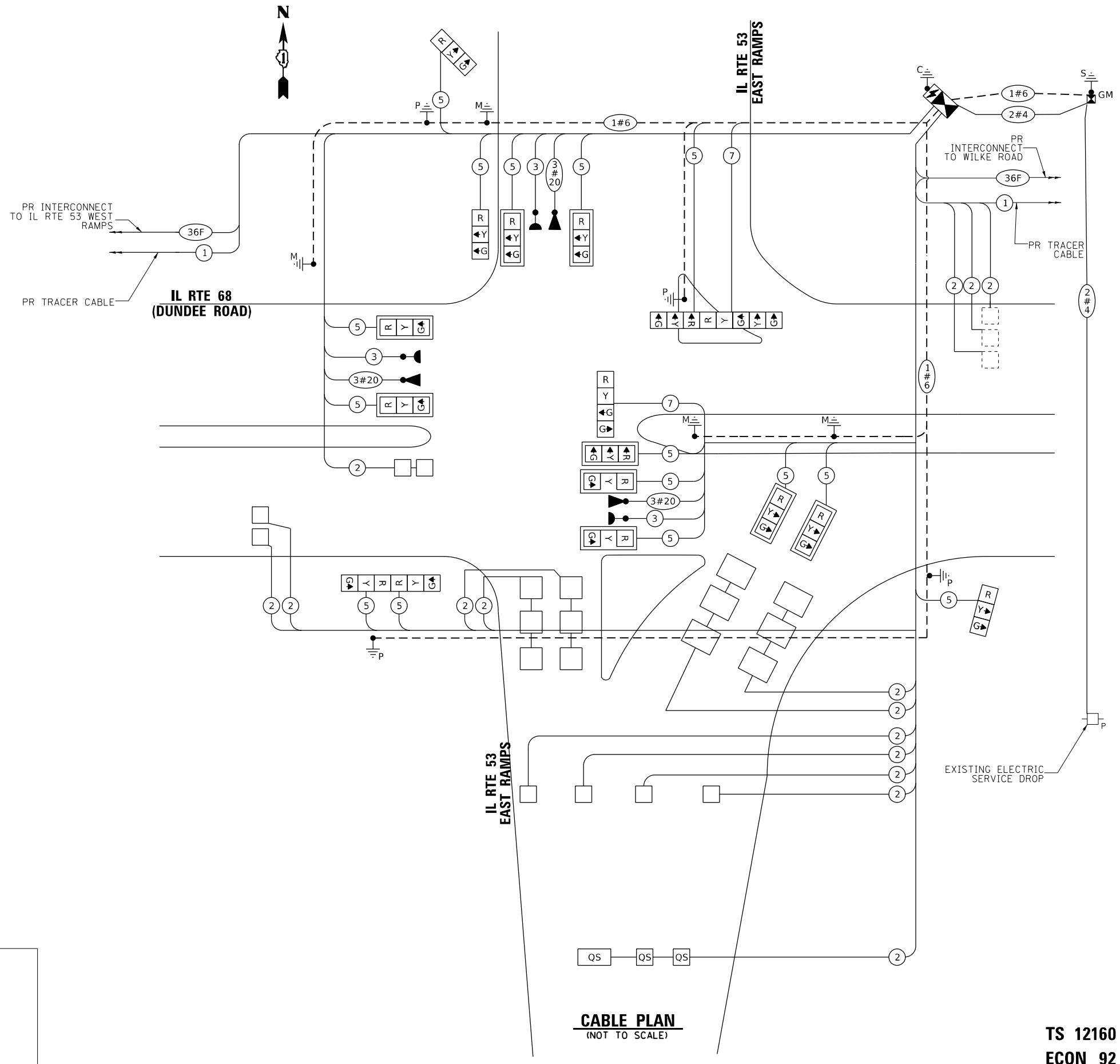
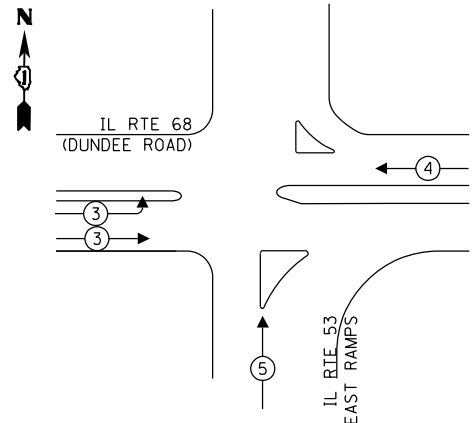
RIGHT TURN OVERLAP

PHASE DESIGNATION:

OVERLAP LETTER = PERMISSIVE PHASE + PROTECTED PHASE

C = 6 + 8

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



CABLE PLAN
(NOT TO SCALE)

TS 12160
ECON 92

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TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD			
1 OR 3 - SECTION	15	11	165
4 - SECTION	1	14	14
5 - SECTION	1	13	13
PROGRAMMABLE SIGNALS			
3 - SECTION		22	
4 - SECTION		32	
5 - SECTION		28	
PED. SIGNAL		15	
CONTROLLER	1	150	150
MASTER CONTROLLER		100	
UPS	1	25	25
DETECTION RADAR OR VIDEO		20	
BLANK-OUT SIGN		25	
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM		15	
PTZ CAMERA		75	
TOTAL UPS SIZING			402
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER		15	
LED STREET NAME SIGN		120	
LUMINAIRE		240	
TOTAL SERVICE WIRE SIZING			1007

ENERGY COSTS TO:

VILLAGE OF ARLINGTON HEIGHTS
33 S. ARLINGTON HEIGHTS RD
ARLINGTON HEIGHTS, IL 60005

ENERGY SUPPLY: CONTACT: JAMES CAMPBELL
PHONE: (630) 940-6805
ACCOUNT NUMBER:
METER NUMBER:

DESIGNED - RRS	REVISED -
DRAWN - ACM	REVISED -
CHECKED - KRH	REVISED -
DATE - 12/13/24	REVISED -

USER NAME = AlexAM
PLOT SCALE = 20,0000 * / in.
PLOT DATE = 12/12/2024

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION
IL RTE 68 (DUNDEE ROAD) AT IL RTE 53 EAST RAMP

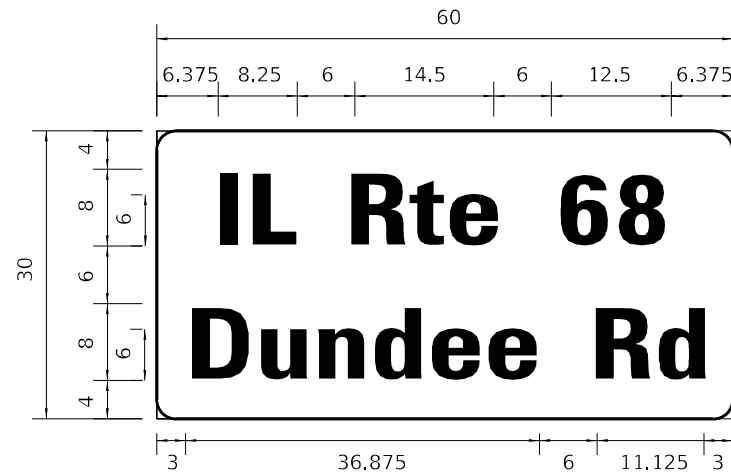
SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	562
CONTRACT NO. 62N91				



SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	41.3
SIGN PANEL - TYPE 2	SQ FT	12.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,667
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	275
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	458
HANDHOLE	EACH	2
HEAVY-DUTY HANDHOLE	EACH	8
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	549
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,764
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	247
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5,453
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2 C	FOOT	456
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,276
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	44
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	9
INDUCTIVE LOOP DETECTOR	EACH	14
DETECTOR LOOP, TYPE I	FOOT	903
* LIGHT DETECTOR	EACH	3
* LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE TO HEAVY-DUTY HANDHOLE	EACH	1
REMOVE EXISTING HANDHOLE	EACH	12
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	549
CENTRACS LICENSE EXPANSION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
LED SIGNAL FACE, LENS COVER	EACH	17
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

*100% COST TO THE VILLAGE OF ARLINGTON HEIGHTS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL RTE 68 (DUNDEE RD) AND IL RTE 53 EAST RAMPS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	563
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

TS 12160
ECON 92

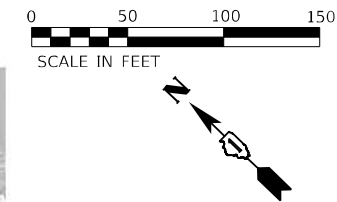
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USER NAME = AlexAM	DESIGNED - RRS	REVISED -
DRAWN - ACM	CHECKED - KRH	REVISED -
PLOT SCALE = 40,0000 */ in.	DATE - 12/13/24	REVISED -
PLOT DATE = 12/12/2024		

NOTES:

1. CONTRACTOR SHALL DISCONNECT EXISTING FIBER OPTIC CABLE AT WILLIAMS DRIVE, IL RTE 53 WEST RAMP, IL RTE 53 EAST RAMP, AND HINTZ ROAD INTERSECTIONS. CONTRACTOR SHALL REMOVE EXISTING FIBER OPTIC CABLE AND TRACER CABLE FROM HH01 TO HH35.
2. MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PAY ITEM SHALL INCLUDE WORK AT WILLIAMS DRIVE AND HINTZ ROAD INTERSECTIONS.



ECON 164



ECON 164

MODEL Path: I:\E300-6299\346113\Drawings\CADD\MicroSSA\CAD_Sheets\C2-0162\91-Int-20-Temp-Interconnect-Plan-S&I.dgn

SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = AlexAM	DESIGNED - RRS	REVISED -
DRAWN - ACM	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - KRH	REVISED -
PLOT DATE = 12/12/2024	DATE - 12/13/24	REVISED -

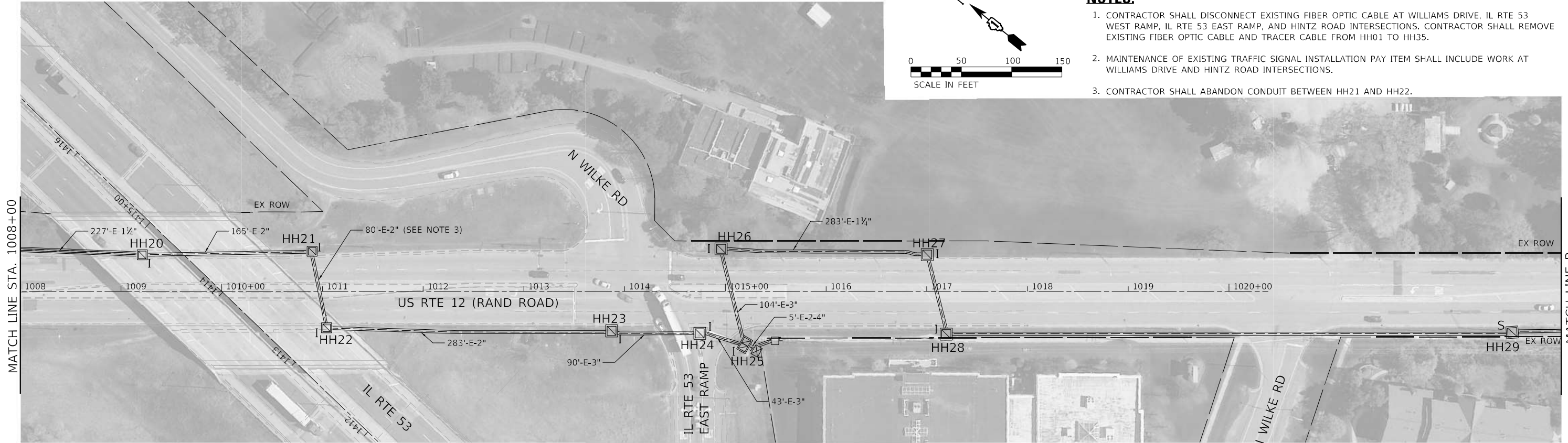
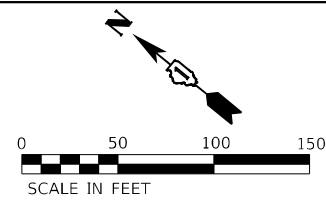
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL INTERCONNECT PLAN
US RTE 12 (RAND ROAD) FROM N WILLIAMS DRIVE TO KENNICOTT DRIVE
 SCALE: 1" : 50' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 564
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N91	

NOTES:

1. CONTRACTOR SHALL DISCONNECT EXISTING FIBER OPTIC CABLE AT WILLIAMS DRIVE, IL RTE 53 WEST RAMP, IL RTE 53 EAST RAMP, AND HINTZ ROAD INTERSECTIONS. CONTRACTOR SHALL REMOVE EXISTING FIBER OPTIC CABLE AND TRACER CABLE FROM HH01 TO HH35.
2. MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PAY ITEM SHALL INCLUDE WORK AT WILLIAMS DRIVE AND HINTZ ROAD INTERSECTIONS.
3. CONTRACTOR SHALL ABANDON CONDUIT BETWEEN HH21 AND HH22.



ECON 164



ECON 164

MODEL: D:\p\d\h\... FILE NAME: S:\01-18300-6399\3416113\Drawings\CADD\MicroSSA\CAD_Sheets\C-0162\N91-Int-12-20-12\Temp\InterconnectPlan-S4.dgn

SA STRAND ASSOCIATES
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

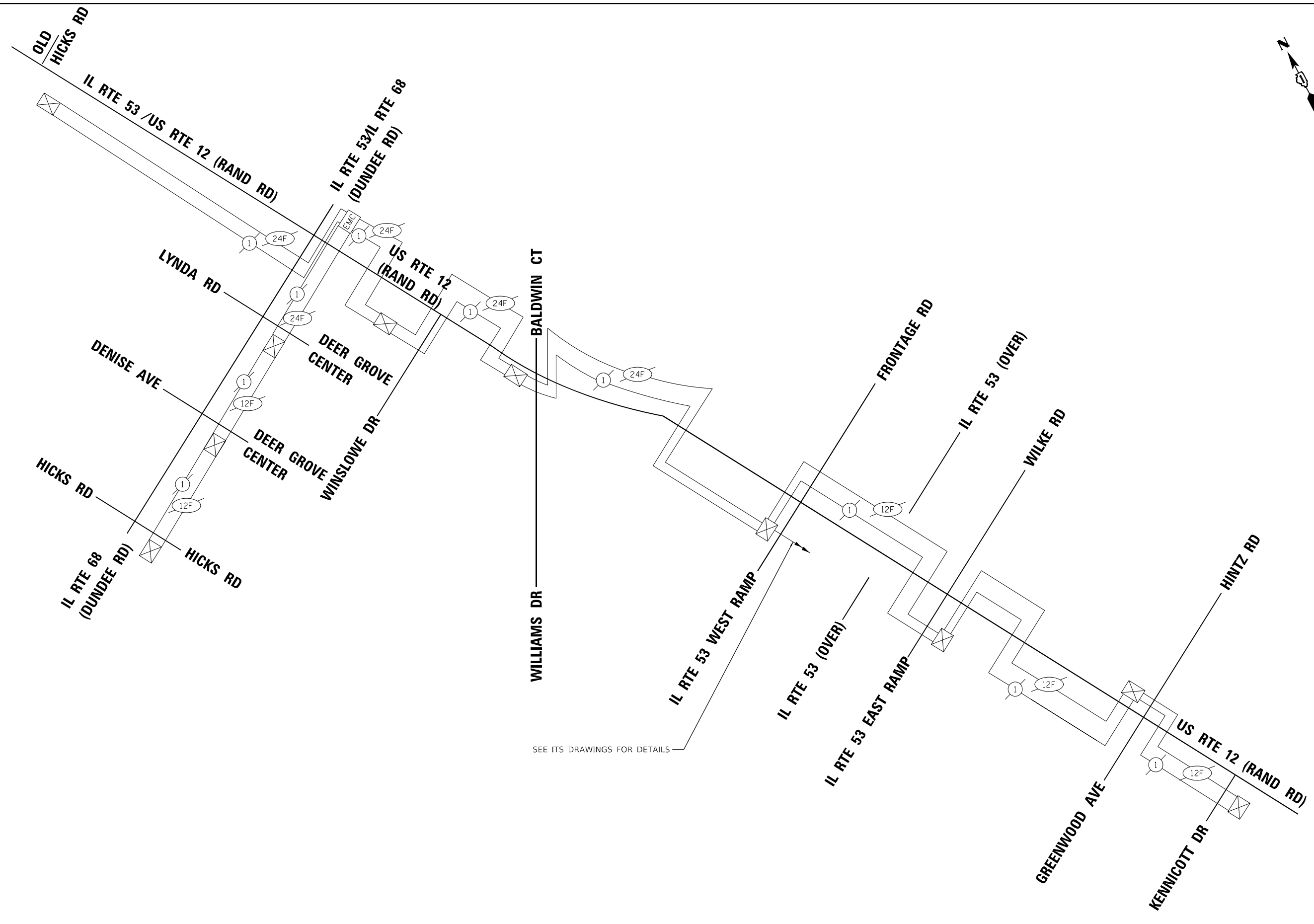
USER NAME = AlexAM	DESIGNED - RRS	REVISED -
DRAWN - ACM	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - KRH	REVISED -
PLOT DATE = 12/12/2024	DATE - 12/13/24	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL INTERCONNECT PLAN
US RTE 12 (RAND ROAD) FROM N WILLIAMS DRIVE TO KENNICOTT DRIVE

SCALE: 1" : 50' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 565
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



SEE ITS DRAWINGS FOR DETAILS

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USER NAME = AlexAM	DESIGNED - RRS	REVISED -
DRAWN - ACM	REVISIONS -	
PLOT SCALE = 40,0000 * / in.	CHECKED - KRH	REVISED -
PLOT DATE = 12/12/2024	DATE - 12/13/24	REVISED -

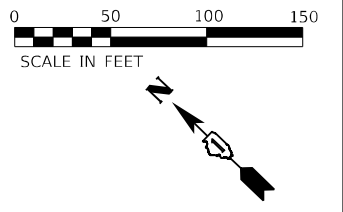
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING INTERCONNECT SCHEMATIC
US RTE 12 (RAND ROAD)

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

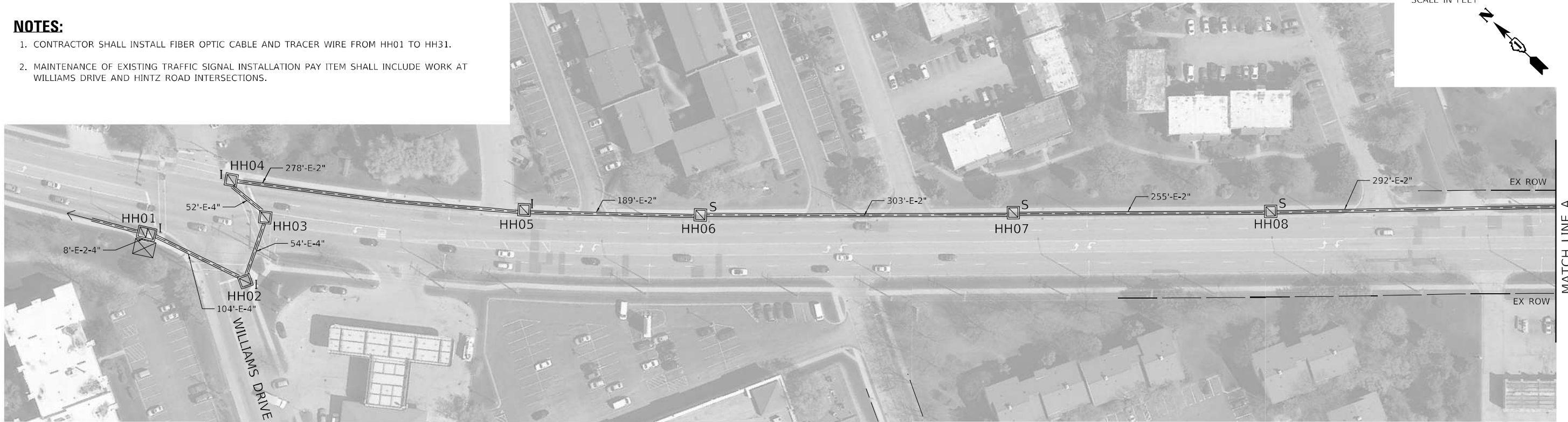
F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 566
			CONTRACT NO. 62N91	
ILLINOIS FED. AID PROJECT				

ECON 164

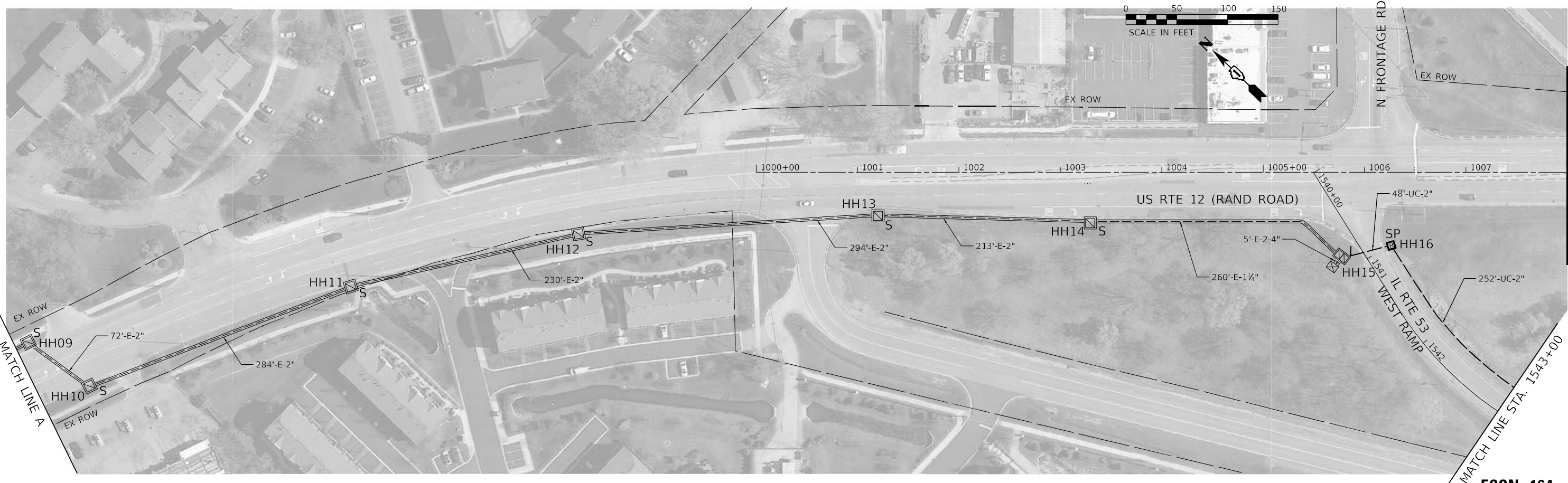


NOTES:

1. CONTRACTOR SHALL INSTALL FIBER OPTIC CABLE AND TRACER WIRE FROM HH01 TO HH31.
2. MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PAY ITEM SHALL INCLUDE WORK AT WILLIAMS DRIVE AND HINTZ ROAD INTERSECTIONS.



ECON 164



ECON 164

MODEL: D:\p\h\1170\Drawings\CADD\Micro-SSA\CAD_Sheets\C2-0162\N91-Int-20-Prop-Interconnect-Fiber-SA1.dwg

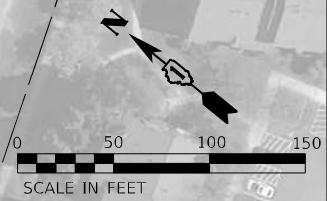
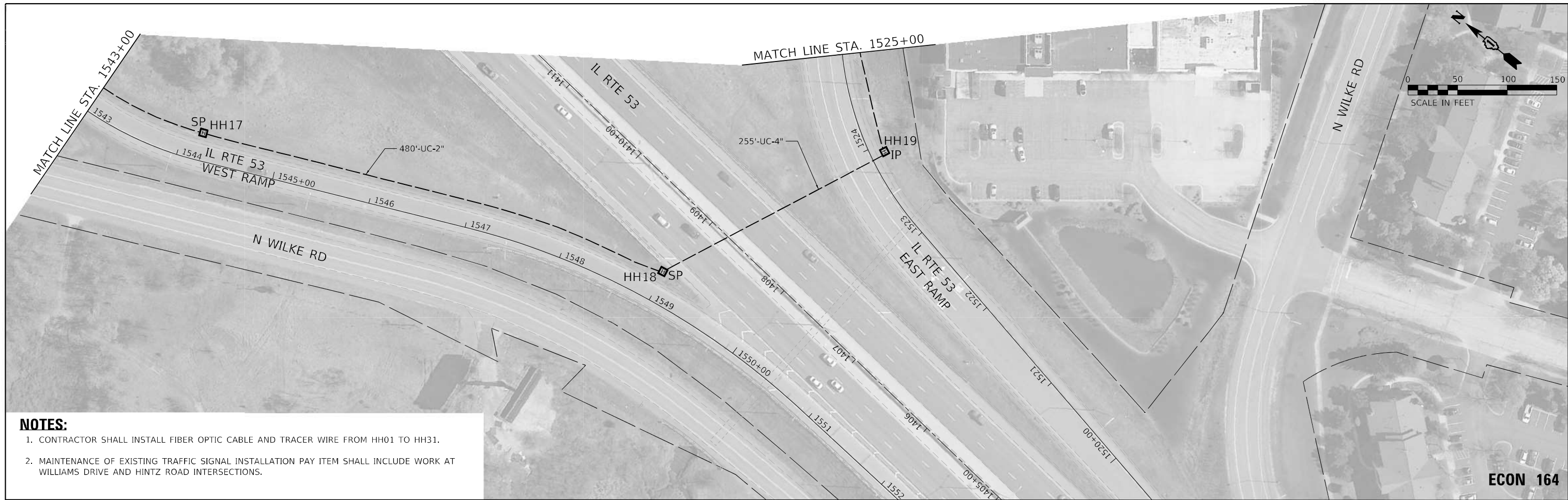
SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = AlexAM	DESIGNED - RRS	REVISED -
DRAWN - ACM	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - KRH	REVISED -
PLOT DATE = 12/12/2024	DATE - 12/13/24	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY AND PROPOSED INTERCONNECT PLAN
 US RTE 12 (RAND ROAD) FROM N WILLIAMS DRIVE TO KENNICOTT DRIVE**
 SCALE: 1" : 50' SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 567
CONTRACT NO. 62N91			ILLINOIS FED. AID PROJECT	



NOTES:

1. CONTRACTOR SHALL INSTALL FIBER OPTIC CABLE AND TRACER WIRE FROM HH01 TO HH31.
2. MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PAY ITEM SHALL INCLUDE WORK AT WILLIAMS DRIVE AND HINTZ ROAD INTERSECTIONS.

ECON 164

MODEL: D:\p\h\11310\randroad\CD\MicroStation\CAD_Sheets\C2-01\62N91-1-18-15-20-Prop-Interconnect-Fiber-SA.dgn
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USER NAME = AlexAM	DESIGNED - RRS	REVISED -
DRAWN - ACM	REVISIONS -	
PLOT SCALE = 100,0000' / in.	CHECKED - KRH	REVISED -
PLOT DATE = 1/22/2025	DATE - 12/13/24	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

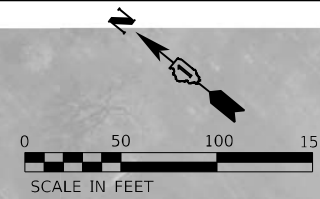
**TEMPORARY AND PROPOSED INTERCONNECT PLAN
US RTE 12 (RAND ROAD) FROM N WILLIAMS DRIVE TO KENNICOTT DRIVE**

SCALE: 1" : 50' SHEET 2 OF 3 SHEETS STA. TO STA.

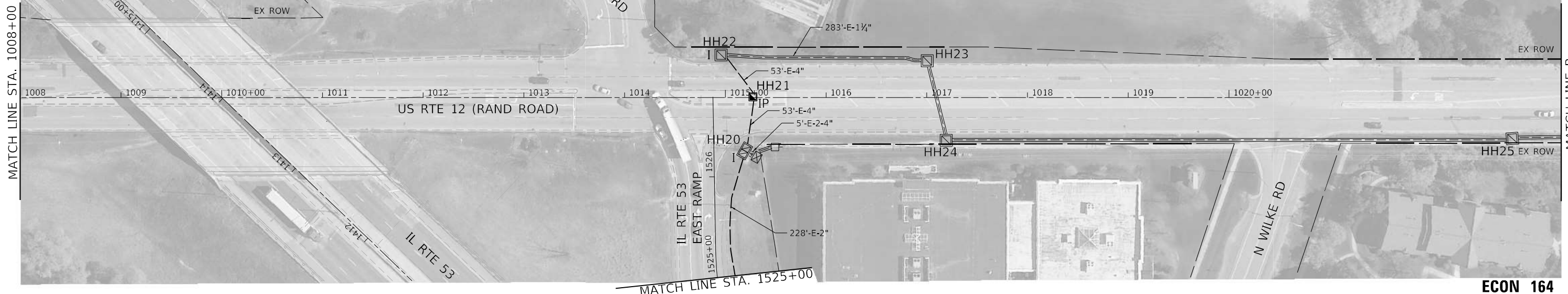
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	568
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

NOTES:

1. CONTRACTOR SHALL INSTALL FIBER OPTIC CABLE AND TRACER WIRE FROM HH01 TO HH31.
2. MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PAY ITEM SHALL INCLUDE WORK AT WILLIAMS DRIVE AND HINTZ ROAD INTERSECTIONS.



MATCH LINE STA. 1008+00



MATCH LINE B

ECON 164

MATCH LINE STA. 1525+00

MATCH LINE B



MATCH LINE B

ECON 164

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USER NAME = AlexAM	DESIGNED - RRS	REVISED -
DRAWN - ACM	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - KRH	REVISED -
PLOT DATE = 12/13/2024	DATE - 12/13/24	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

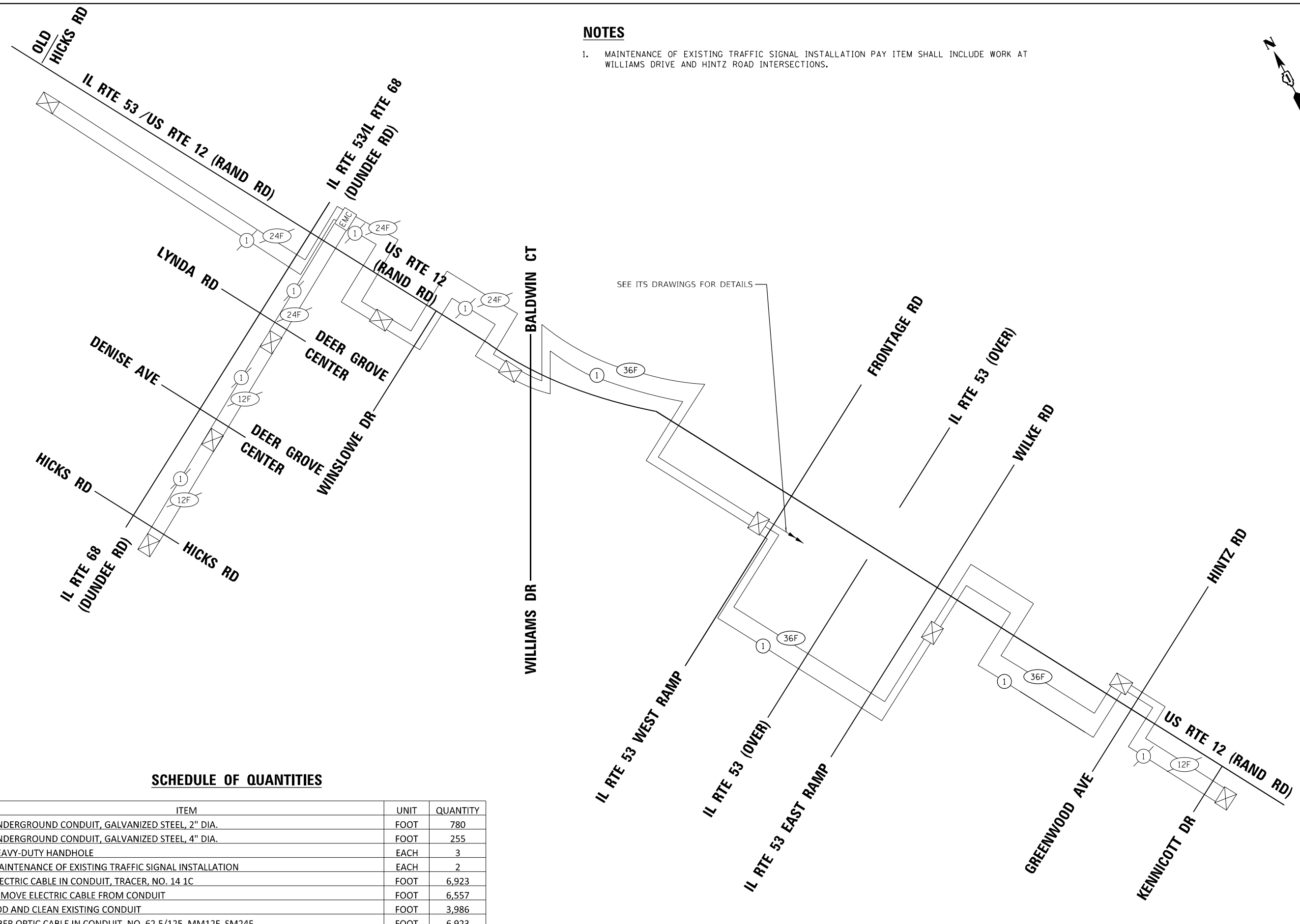
**TEMPORARY AND PROPOSED INTERCONNECT PLAN
US RTE 12 (RAND ROAD) FROM N WILLIAMS DRIVE TO KENNICOTT DRIVE**

SCALE: 1" : 50' SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	569
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

NOTES

1. MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PAY ITEM SHALL INCLUDE WORK AT WILLIAMS DRIVE AND HINTZ ROAD INTERSECTIONS.



SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	780
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	255
HEAVY-DUTY HANDHOLE	EACH	3
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	6,923
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	6,557
ROD AND CLEAN EXISTING CONDUIT	FOOT	3,986
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	6,923

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USER NAME = AlexAM	DESIGNED - RRS	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - ACM	REVISED -
PLOT DATE = 1/22/2025	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AND PROPOSED INTERCONNECT SCHEMATIC
AND SCHEDULE OF QUANTITIES
US RTE 12 (RAND ROAD)

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

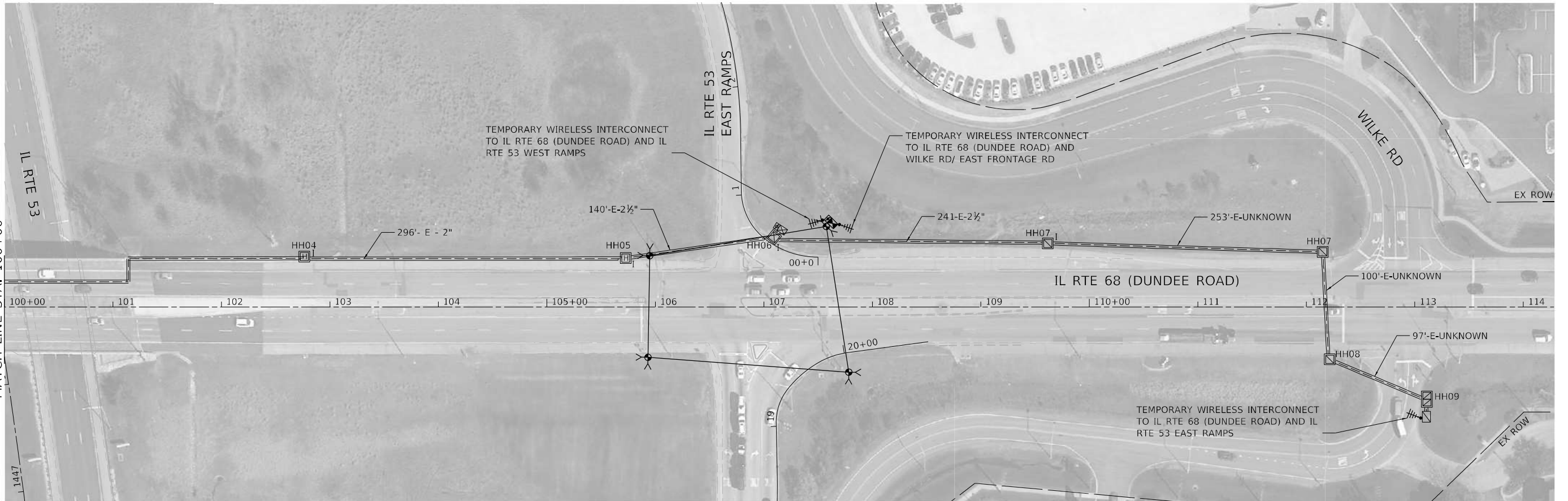
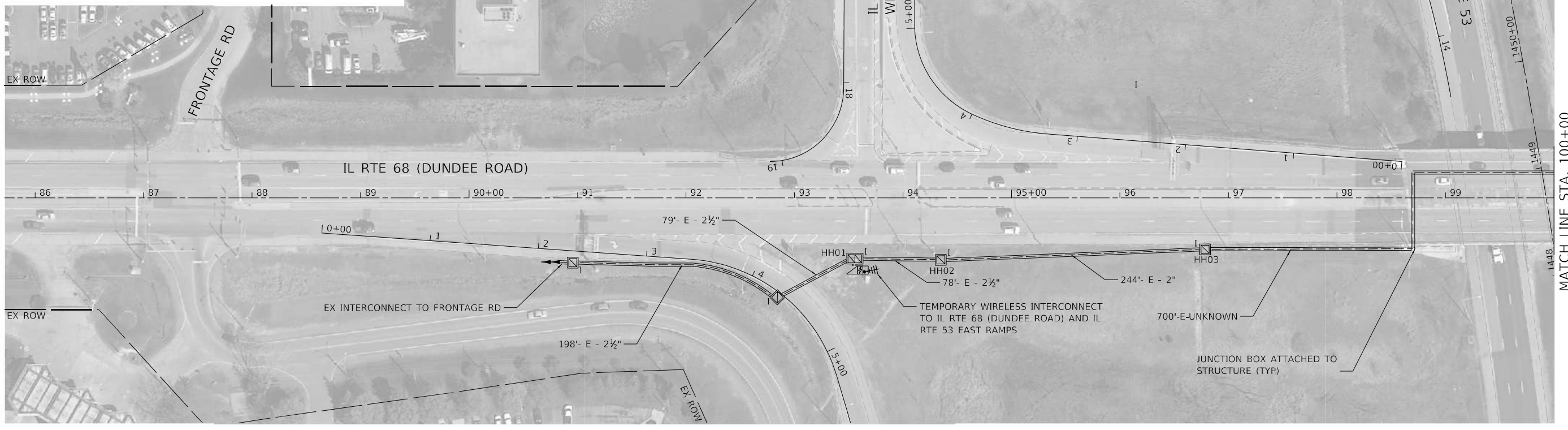
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	570
CONTRACT NO. 62N91			ILLINOIS FED. AID PROJECT	

ECON 164



NOTES:

1. CONTRACTOR SHALL DISCONNECT EXISTING FIBER OPTIC CABLE AT IL RTE 53 WEST RAMP, IL RTE 53 EAST RAMP, AND WILKE ROAD INTERSECTIONS. CONTRACTOR SHALL REMOVE EXISTING FIBER OPTIC CABLE AND TRACER CABLE FROM HH01 TO HH02 TO HH03 TO HH04 TO HH05 TO HH06 TO HH07 TO HH08 TO HH09.
2. MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PAY ITEM HAS BEEN INCLUDED FOR WORK AT WILKE ROAD.



ECON 92

MODEL: D:\a\p\h\113\Drawings\CDM\Micro\SSA\CAD_Sheets\CD-0162\N91-Int-2-1-Interconnect-Plan-Econ_92-SA1.dgn
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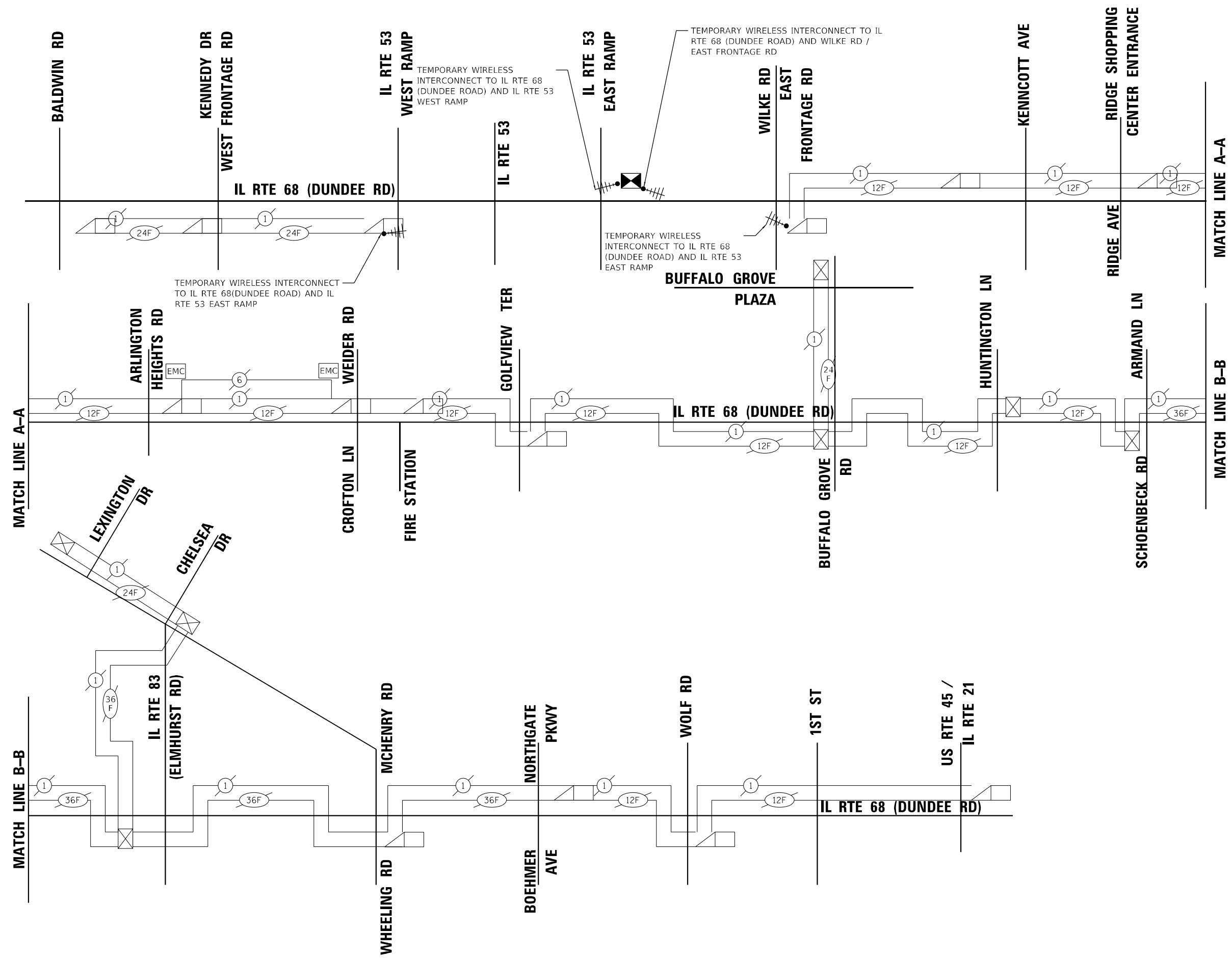
SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = AlexAM	DESIGNED - RRS	REVISD -
	DRAWN - ACM	REVISD -
PLOT SCALE = 100,0000' / in.	CHECKED - KRH	REVISD -
PLOT DATE = 12/13/2024	DATE - 12/13/24	REVISD -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**REMOVAL AND TEMPORARY INTERCONNECT PLAN
 IL RTE 68 (DUNDEE ROAD) FROM FRONTAGE RD TO WILKE RD**
 SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 571
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



MODEL: D:\p\h\p\113\Drawings\CD\Wireless\SSA\CAD_Sheets\C2-D162N91-1-19-Interconnect-Schematic-Conn_92-SA1.dgn
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STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

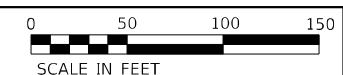
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DRAWN - ACM	REVISED -	
PLOT SCALE = 40,0000 * / in.	CHECKED - KRH	REVISED -
PLOT DATE = 12/13/2024	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN AND SCHEDULE OF QUANTITIES
IL RTE 68 (DUNDEE ROAD)

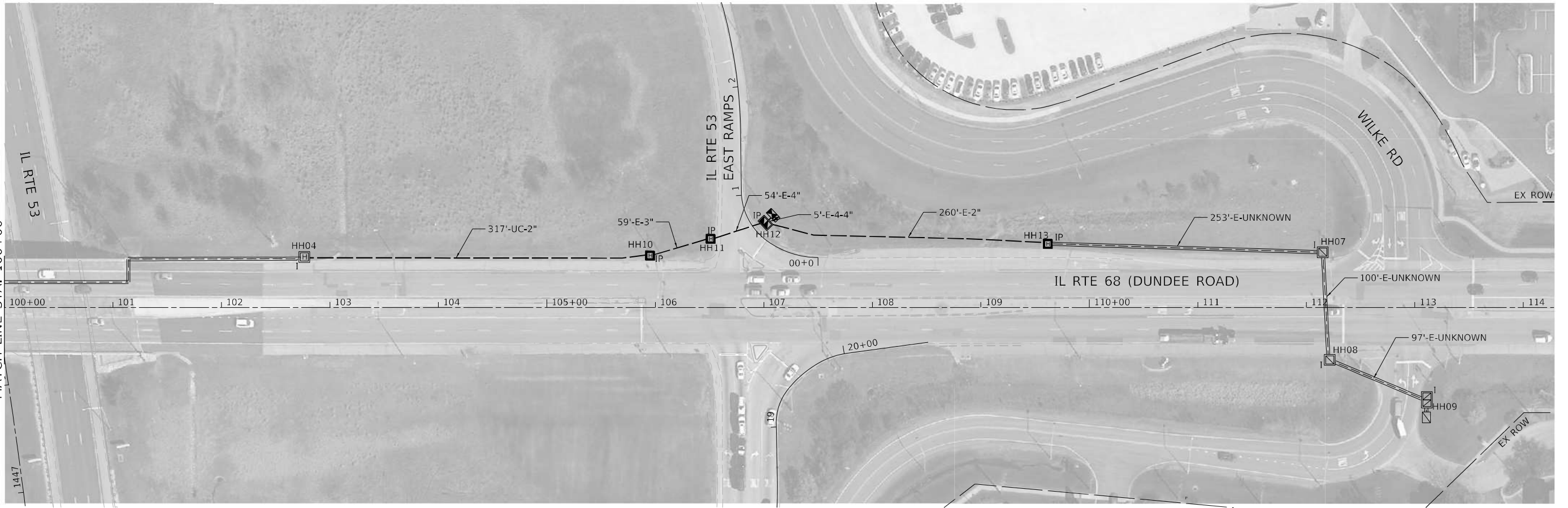
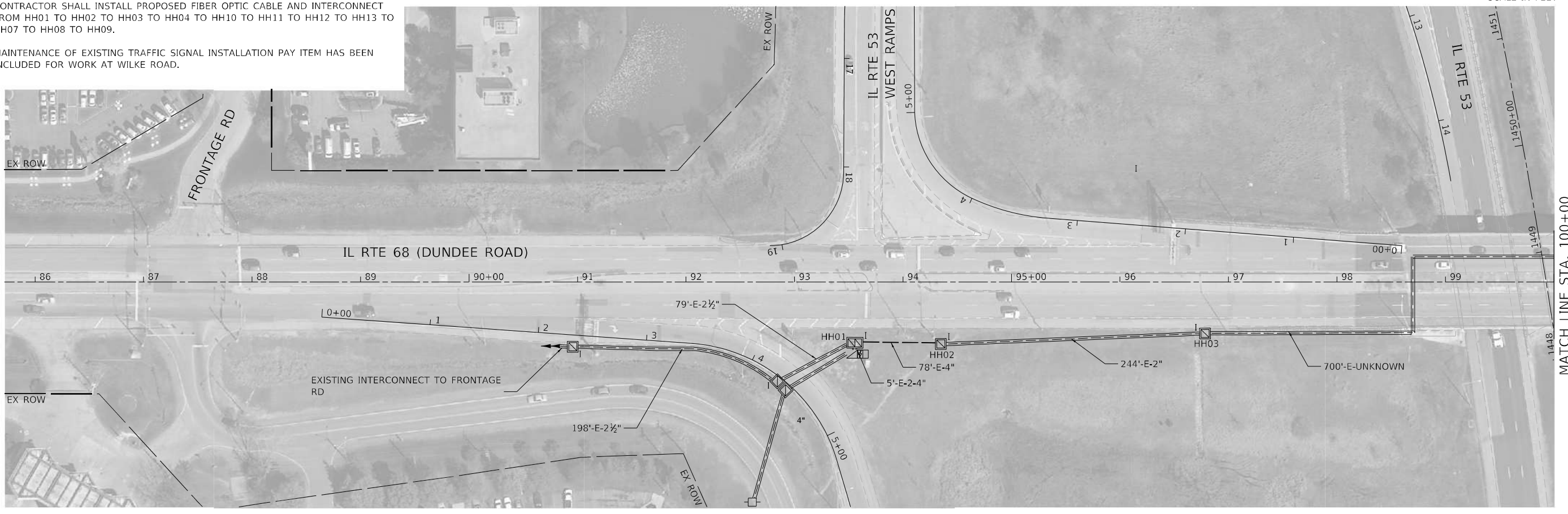
SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	572
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



NOTE:

1. CONTRACTOR SHALL INSTALL PROPOSED FIBER OPTIC CABLE AND INTERCONNECT FROM HH01 TO HH02 TO HH03 TO HH04 TO HH10 TO HH11 TO HH12 TO HH13 TO HH07 TO HH08 TO HH09.
2. MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PAY ITEM HAS BEEN INCLUDED FOR WORK AT WILKE ROAD.



MODEL: D:\p\h\1170\1170_SOUTH_HOUBOLT\1170_SOUTH_HOUBOLT\1170_SOUTH_HOUBOLT\CADD\Micro-SSA\CAD_Sheets\C-01\62N91-1\1170-Interconnect\Fiber-Econ_92-5A.dgn
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USER NAME = AlexAM	DESIGNED - RRS	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - ACM	REVISED -
PLOT DATE = 12/13/2024	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

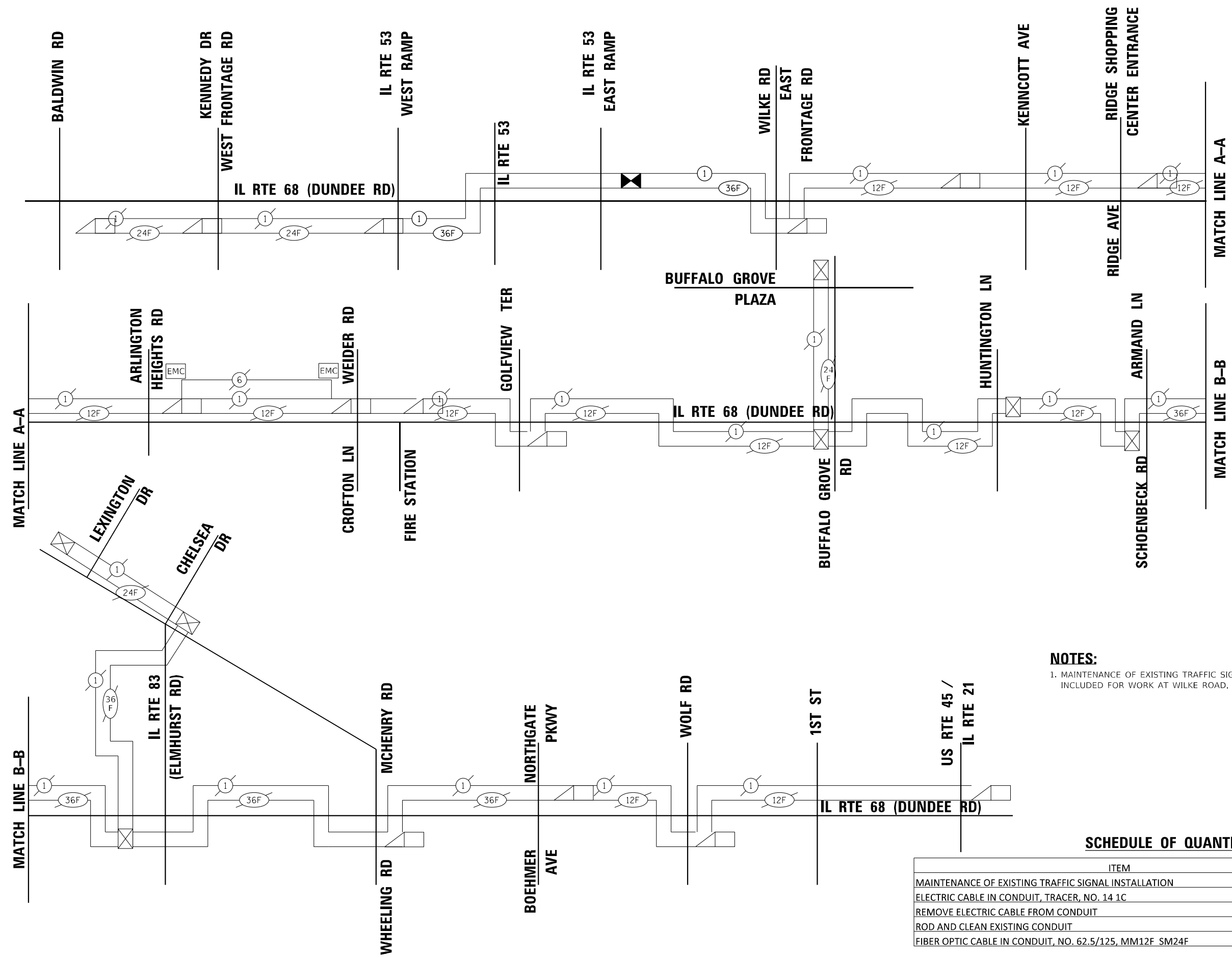
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
IL RTE 68 (DUNDEE ROAD) FROM FRONTAGE RD TO WILKE RD

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 573
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

ECON 92



NOTES:
 1. MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PAY ITEM HAS BEEN INCLUDED FOR WORK AT WILKE ROAD.

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2,306
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,984
ROD AND CLEAN EXISTING CONDUIT	FOOT	1,197
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2,350

ECON 92

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PLOT SCALE = 40,0000 * / in.	DRAWN - ACM	REVISED -
PLOT DATE = 12/13/2024	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN AND SCHEDULE OF QUANTITIES
 IL RTE 68 (DUNDEE ROAD)
 SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 574
			CONTRACT NO. 62N91	
ILLINOIS FED. AID PROJECT				

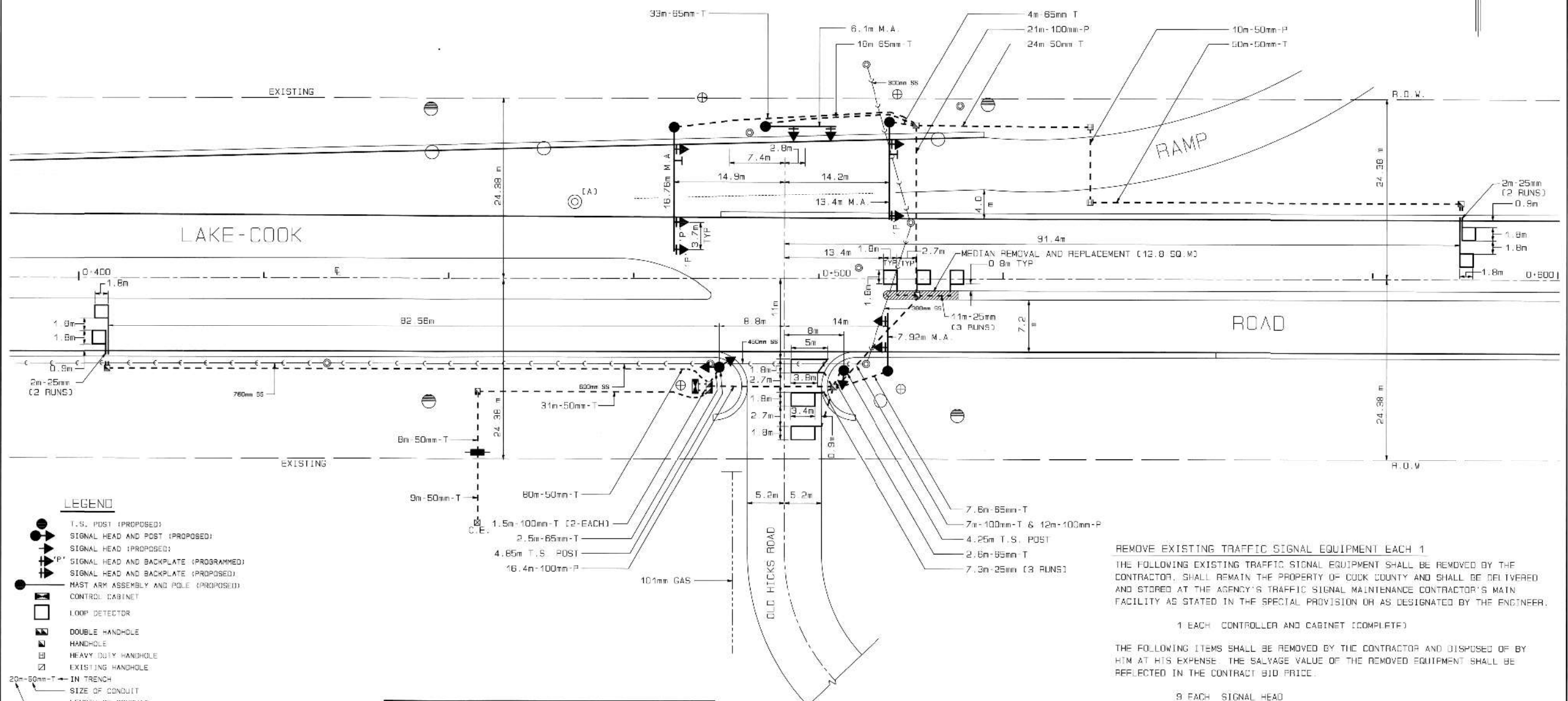
COUNTY	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
COOK	2020	342	342

SECTION 00-55B11-00-01

FOR REFERENCE ONLY



- NOTES**
1. VEHICLE LOOP DETECTOR SHALL BE COMPATIBLE WITH THE CONTROL EQUIPMENT.
 2. CONTRACTOR TO VERIFY CONDITIONS IN THE FIELD WITH THE ENGINEER AS TO LOCATIONS OF UTILITIES BEFORE THE INSTALLATION OF FOUNDATIONS OR HANDHOLES ARE MADE WITHIN THE INTERSECTION.
 3. ALL SIGNAL POSTS SHALL BE SET BACK 1.2 METERS (4 FT.) MINIMUM AND ALL MAST ARM POLES SHALL BE SET BACK 1.8 METERS (6 FT.) MINIMUM FROM THEIR CENTERLINE TO THE BACK OF CURB UNLESS OTHERWISE NOTED. IN NON-CURBED AREAS THE MAST ARM POLE AND SIGNAL POST SHALL BE LOCATED A MINIMUM OF 3 METERS (10 FT.) BEHIND THE EDGE OF PAVEMENT OR 0.6 METERS (2 FT.) BEHIND THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER.
 4. ALL ELECTRIC CABLE TO HAVE POLYVINYL CHLORIDE JACKET.
 5. ALL MAST ARM MOUNTED SIGNAL HEADS ARE TO BE ATTACHED A MINIMUM OF 0.6 METERS (2 FT.) FROM END OF MAST ARM UNLESS OTHERWISE NOTED.
 6. ALL 25mm (1 IN.) CONDUIT TO BE 25mm (1 IN.) EMPTY DUCT.
 7. CONTRACTOR MUST PAINT PROPOSED SERVICE INSTALLATION AND RISER, FEDERAL YELLOW. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
 8. ALL MAST ARM MOUNTED SIGNAL HEADS ARE TO BE ATTACHED A MINIMUM OF 0.6 METERS (2 FT.) FROM END OF MAST ARM UNLESS OTHERWISE NOTED.
 9. THE CONTRACTOR SHALL INFORM THE CHD DESIGN ENGINEER AT (312) 830-1730 PRIOR TO THE START OF ANY WORK ON THE CONTRACT. THE MINIMUM OF FIVE (5) DAYS ADVANCE NOTICE IS REQUIRED.



REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 1
 THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR. SHALL REMAIN THE PROPERTY OF COOK COUNTY AND SHALL BE DELIVERED AND STORED AT THE AGENCY'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS STATED IN THE SPECIAL PROVISION 0H AS DESIGNATED BY THE ENGINEER.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF BY HTM AT HIS EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 9 EACH SIGNAL HEAD
- 1 EACH SERVICE INSTALLATION
- 4 EACH WOOD POLE

COUNTY OF COOK
 DEPARTMENT OF HIGHWAYS
 TRAFFIC SIGNAL INSTALLATION
 LAKE COOK ROAD AT OLD HICKS ROAD

COMPUTED R.L.S.
 DRAWN W.A.C.
 CHECKED R.L.S.

APPROVED [Signature] 30 [Date]
 CHD ENGINEER OF DESIGN

USER NAME = AlexaM	DESIGNED - RRS	REVISED -
PLOT SCALE = 40,0000 */ in.	DRAWN - ACM	REVISED -
PLOT DATE = 12/13/2024	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN	
LAKE COOK ROAD AT OLD HICKS ROAD	
SCALE: 1" = 20'	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 575
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

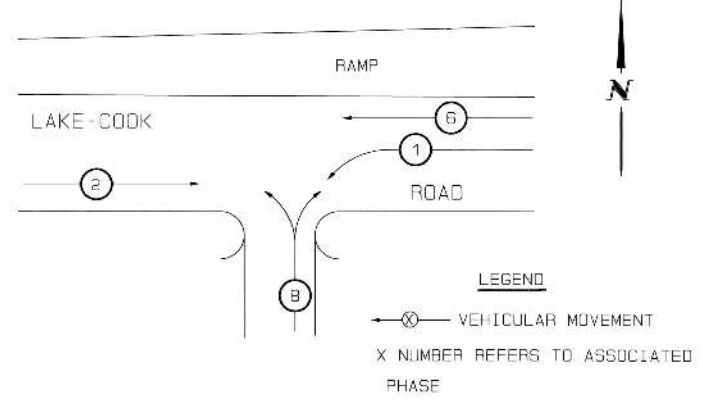
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 STRAND ASSOCIATES

1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

COUNTY HIGHWAY	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	2020		
SECTION			00-ASD11-05-D1

CONTROLLER SEQUENCE

REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW

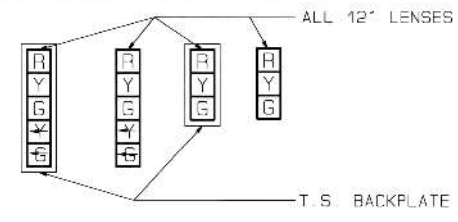


PHASE DESIGNATION DIAGRAM

DUAL ENTRY-ALL LEGS PROTECTED PERMITTED
 LEFT TURN PHASING

FOR REFERENCE ONLY

SIGNAL FACES

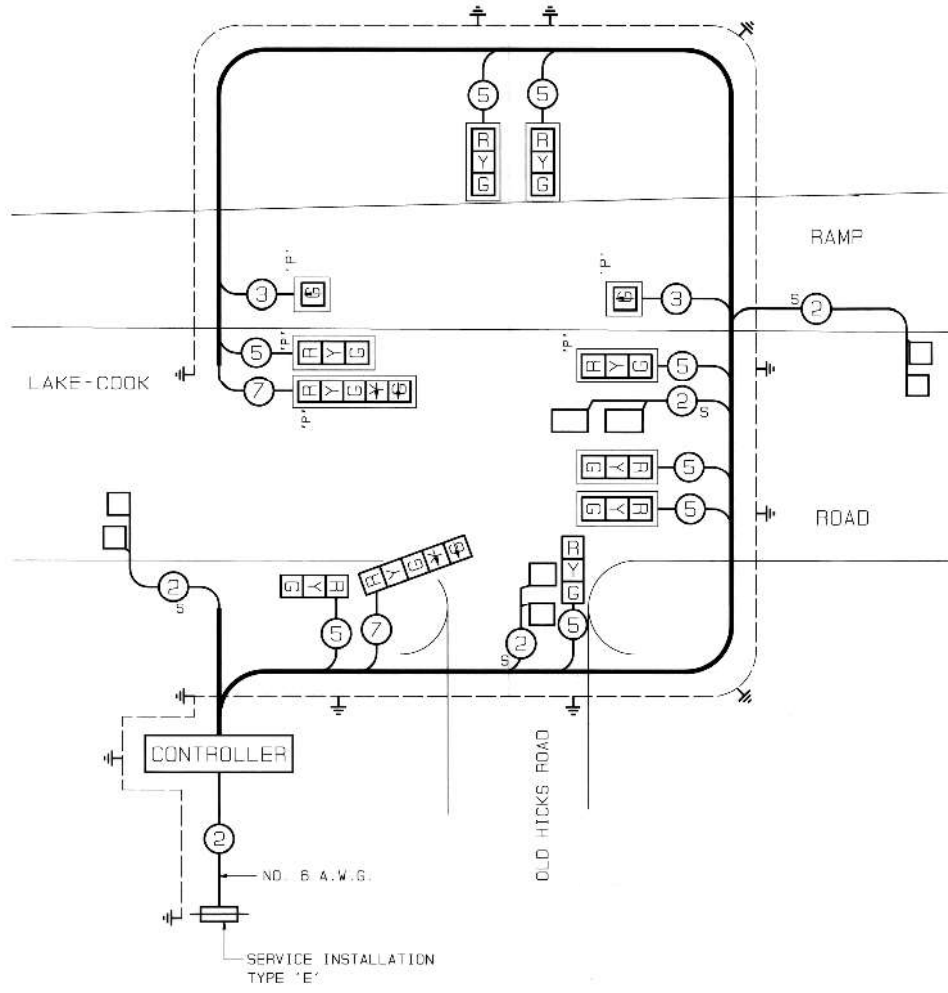


SIGNAL LENSES

- R RED
- Y YELLOW
- G GREEN
- Y* YELLOW TURN INDICATOR
- G* GREEN TURN INDICATOR

CABLE PLAN LEGEND

- [R] 12' TRAFFIC SIGNAL SECTION
- [CONTROLLER] CONTROLLER CABINET
- [] VEHICLE DETECTOR, INDUCTION LOOP
- [2] LENSES NUMBER OF CONDUCTORS (NEW)
 ALL LOOP DETECTOR CABLE TO BE TWISTED & SHIELDED. ALL CABLE NO. 14 EXCEPT AS INDICATED
- [R Y G] SIGNAL FACE WITH BACKPLATE
 'P' INDICATES PROGRAMMED
- [] GROUNDING SYSTEM CONNECTION
- [S] SHIELDED & TWISTED
- [] SERVICE INSTALLATION



CABLE PLAN

NOT TO SCALE

COUNTY OF COOK DEPARTMENT OF HIGHWAYS	
TRAFFIC SIGNAL INSTALLATION LAKE-COOK ROAD AT OLD HICKS ROAD	
COMPUTED R.L.P.	APPROVED June 5 2020
DRAWN W.A.C.	
CHECKED R.L.P.	

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SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = AlexaM	DESIGNED - RRS	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - ACM	REVISED -
PLOT DATE = 12/13/2024	CHECKED - KRH	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN
LAKE COOK ROAD AT OLD HICKS ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	576
CONTRACT NO. 62N91				

ILLINOIS FED. AID PROJECT

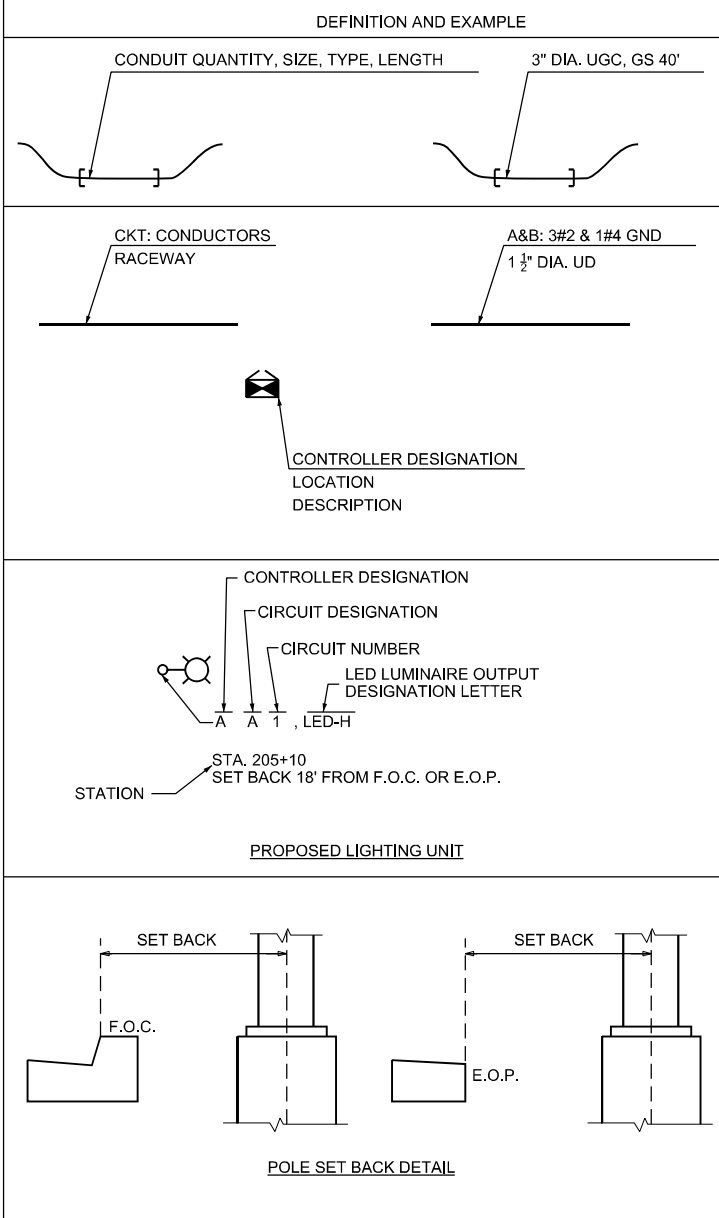
LIGHTING AND ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	EXISTING LIGHT POLE W/ MAST ARM TO REMAIN
	EXISTING MEDIAN MOUNTED LIGHT POLE W/ DUAL MAST ARM TO REMAIN
	EXISTING LIGHTING UNIT TO BE REMOVED. EXISTING LUMINAIRE TO BE SALVAGED.
	EXISTING MEDIAN MOUNTED LIGHTING UNIT TO BE REMOVED. EXISTING LUMINAIRE & LIGHTING ARM TO BE SALVAGED.
	TEMPORARY HIGH MAST LIGHTING UNIT, 90-FT WOOD POLE, 70 FT MOUNTING HEIGHT 15-FT MAST ARM, LUMINAIRE, LED, ROADWAY OUTPUT DESIGNATION K (240VAC)
	TEMPORARY WOOD POLE, CLASS 4, 50 FT
	REMOVE EXISTING LUMINAIRE, SALVAGE. INSTALL LUMINAIRE SAFETY CABLE AND LED LUMINAIRE (HORIZONTAL MOUNT, OUTPUT DESIGNATION H) ON EXISTING GROUND MOUNTED LIGHT POLE AND MAST ARM.
	REMOVE EXISTING MEDIAN LUMINAIRES AND INSTALL SAFETY CABLES, AND 2 LED LUMINAIRES (HORIZONTAL MOUNT, OUTPUT DESIGNATION H) ON EXISTING MEDIAN MOUNTED LIGHT POLE.
	REMOVE EXISTING MEDIAN LUMINAIRES AND DUAL MAST ARMS, SALVAGE. INSTALL 6-FT DUAL MAST ARMS, LUMINAIRE SAFETY CABLES, AND 2 LED LUMINAIRES (HORIZONTAL MOUNT, OUTPUT DESIGNATION H) ON EXISTING MEDIAN MOUNTED LIGHT POLE.
	PROPOSED LIGHTING UNIT MOUNTED ON BREAKAWAY DEVICE, NEW METAL FOUNDATION (UNLESS OTHERWISE NOTED), 47.5 FT MOUNTING HEIGHT, 15 FT MAST ARM, LUMINAIRE TO BE LED, HORIZONTAL MOUNT OUTPUT DESIGNATION H (240VAC).
	PROPOSED LIGHTING UNIT MOUNTED ON MEDIAN, NEW CONCRETE BARRIER FOUNDATION, 47.5 FT MOUNTING HEIGHT, 2-6 FT MAST ARMS, 2 LUMINAIRES TO BE LED, HORIZONTAL MOUNT OUTPUT DESIGNATION H (240VAC).
	PROPOSED IDOT LIGHTING UNIT MOUNTED ON PROPOSED TRAFFIC SIGNAL POLE, 45 FT M.H., U.N.O., 15 FT MAST ARM, LUMINAIRE TO BE LED, HORIZONTAL MOUNT, OUTPUT DESIGNATION H (120 VAC) U.N.O.
	EXISTING UNDERPASS LUMINAIRE TO BE REMOVED
	EXISTING JUNCTION BOX TO REMAIN
	EXISTING JUNCTION BOX TO BE REMOVED
	EXISTING HANDHOLE TO BE REMOVED
	PROPOSED UNDERPASS LED LUMINAIRE, SUSPENDED MOUNT, OUTPUT DESIGNATION E
	PROPOSED UNDERPASS LED LUMINAIRE, SUSPENDED MOUNT, OUTPUT DESIGNATION D
	PROPOSED JUNCTION BOX, TYPE AND SIZE AS NOTED
	PROPOSED HANDHOLE
	EXISTING IDOT LIGHTING CONTROLLER TO REMAIN
	EXISTING ELECTRICAL UTILITY SERVICE TO REMAIN
	EXISTING HIGH MAST LIGHT TOWER TO REMAIN

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
ATS	ATTACHED TO STRUCTURE
B.O.C.	BACK OF CURB
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
COMED	COMMONWEALTH EDISON COMPANY
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING UNIT TO REMAIN
EX.	EXISTING
ECA	ELECTRIC CABLE ASSEMBLY
EIS	EMBEDDED IN STRUCTURE
E.O.P.	EDGE OF PAVEMENT
F.O.C.	FACE OF CURB
FT	FEET OR FOOT
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
LED	LIGHT EMITTING DIODE
LP	LIGHT POLE
M	METER
MA	MAST ARM
MC	MULTI-CONDUCTOR
MM	MILLIMETER
M.H.	MOUNTING HEIGHT
MW	MESSENGER WIRE
NESC	NATIONAL ELECTRIC SAFETY CODE
NO. #	NUMBER
N.T.S.	NOT TO SCALE
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
ROW	RIGHT OF WAY
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
T/F	TOP OF FOUNDATION
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
UGC, GS	UNDERGROUND CONDUIT, GALVANIZED STEEL
VAC	VOLTS, ALTERNATING CURRENT
W	WATTS
WP	WOOD POLE
XFMR	TRANSFORMER
HPS	HIGH PRESSURE SODIUM
LPS	LOW PRESSURE SODIUM
LTFM	LIQUID TIGHT FLEXIBLE METALLIC

CALL-OUT SAMPLE



ELECTRICAL CABLE LEGEND

	EXISTING EMBEDDED CONDUIT TO REMAIN
	EXISTING UNIT DUCT TO REMAIN
	EXISTING UNDERGROUND UNIT DUCT TO BE REMOVED OR ABANDONED IN PLACE
	EXISTING CABLE AND CONDUIT TO BE REMOVED
	TEMPORARY AERIAL LIGHTING CABLE WITH MESSENGER WIRE, TYPE AND SIZE AS NOTED
	PROPOSED EMBEDDED CONDUIT, TYPE AND SIZE AS NOTED
	PROPOSED UNIT DUCT, TYPE AND SIZE AS NOTED

GENERAL NOTES

- THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2022, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL CONTACT MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR TO LOCATE IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES 773-287-7672.
- THE CONTRACTOR SHALL TAKE PROPER MEASURE NOT TO DAMAGE THE EXISTING CABLES COMING OUT THE EXISTING MEDIAN BARRIER WALL FOUNDATIONS.

NOTIFY THE IDOT DISTRICT ONE ELECTRICAL MAINTENANCE OFFICE LONG TRAN, LONG.TRAN@ILLINOIS.GOV, 847-705-4232 TWO WEEKS PRIOR TO THE ANTICIPATED LIGHTING MAINTENANCE TRANSFER.

IDOT-D1 STANDARDS:

STANDARD NO.	TITLE
BE-240	COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC
BE-322	24" DIA. LIGHT POLE FOUNDATION INTEGRAL WITH DOUBLE FACE BARRIER WALL
BE-400	ALUMINUM LIGHT POLE 47'-6" (14.478 m) MOUNTING HEIGHT
BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
BE-702	MISC. ELECTRICAL DETAILS SHEET A
BE-703	MISCELLANEOUS ELECTRICAL DETAILS, SHEET B
BE-800	TEMPORARY LIGHT POLE DETAILS
BE-801	TEMPORARY AERIAL CABLE INSTALLATION
BE-901	SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS

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PLOT DATE = 1/23/2025	CHECKED - RP/MG	REVISED -
	DATE - 1/24/2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LIGHTING LEGEND AND GENERAL NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	577
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

LT-01

ITEM	UNIT	TOTAL QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1887
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	1914
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	2,321
CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC	FOOT	283
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	54
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	24
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 12" X 6"	EACH	4
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	7
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, 1 1/2" DIA. POLYETHYLENE	FOOT	3,307
UNIT DUCT, 600V, 4-1C NO.2, 1/C NO.4 GROUND, 1 1/2" DIA. POLYETHYLENE	FOOT	5,512
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	9,101
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	2,700
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	10,292
AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	2,119
AERIAL CABLE, 4-1/C NO. 2 WITH MESSENGER WIRE	EACH	4,547
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	104
LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION D	EACH	10
LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E	EACH	46
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 2-6 FT. MAST ARMS	EACH	11
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	15
REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	11
REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	17
REMOVAL OF POLE FOUNDATION	EACH	17
REMOVE TEMPORARY WOOD POLE	EACH	13
ROD AND CLEAN EXISTING CONDUIT	FOOT	803
REMOVAL OF CABLE IN CONDUIT	FOOT	3,511
REMOVAL OF LUMINAIRE, SALVAGE	EACH	443
6 FT DUAL MAST ARMS, ALUMINUM, 180 DEGREES APART	EACH	38
JUNCTION BOX, NON-METALLIC, EMBEDDED IN STRUCTURE, 20" X 13" X 12"	EACH	7
COMBINATION LIGHTING CONTROLLER	EACH	4
TEMPORARY WOOD POLE, 90 FT., CLASS 2, 15 FT. MAST ARM	EACH	11
TEMPORARY WOOD POLE, 50 FT., CLASS 4	EACH	13
LIGHT POLE FOUNDATION, INTEGRAL WITH BARRIER WALL	EACH	10
LIGHT POLE FOUNDATION, INTEGRAL WITH BARRIER WALL, 24" DIAMETER	FOOT	90
REMOVAL OF LUMINAIRE, SALVAGE, UNDERPASS	EACH	20
REMOVAL OF LUMINAIRE, NO SALVAGE, UNDERPASS	EACH	52
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	443
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	9
REMOVAL OF LIGHTING ARM, SALVAGE	EACH	76
LUMINAIRE, LED, ROADWAY, REPLACEMENT, OUTPUT DESIGNATION H	EACH	339

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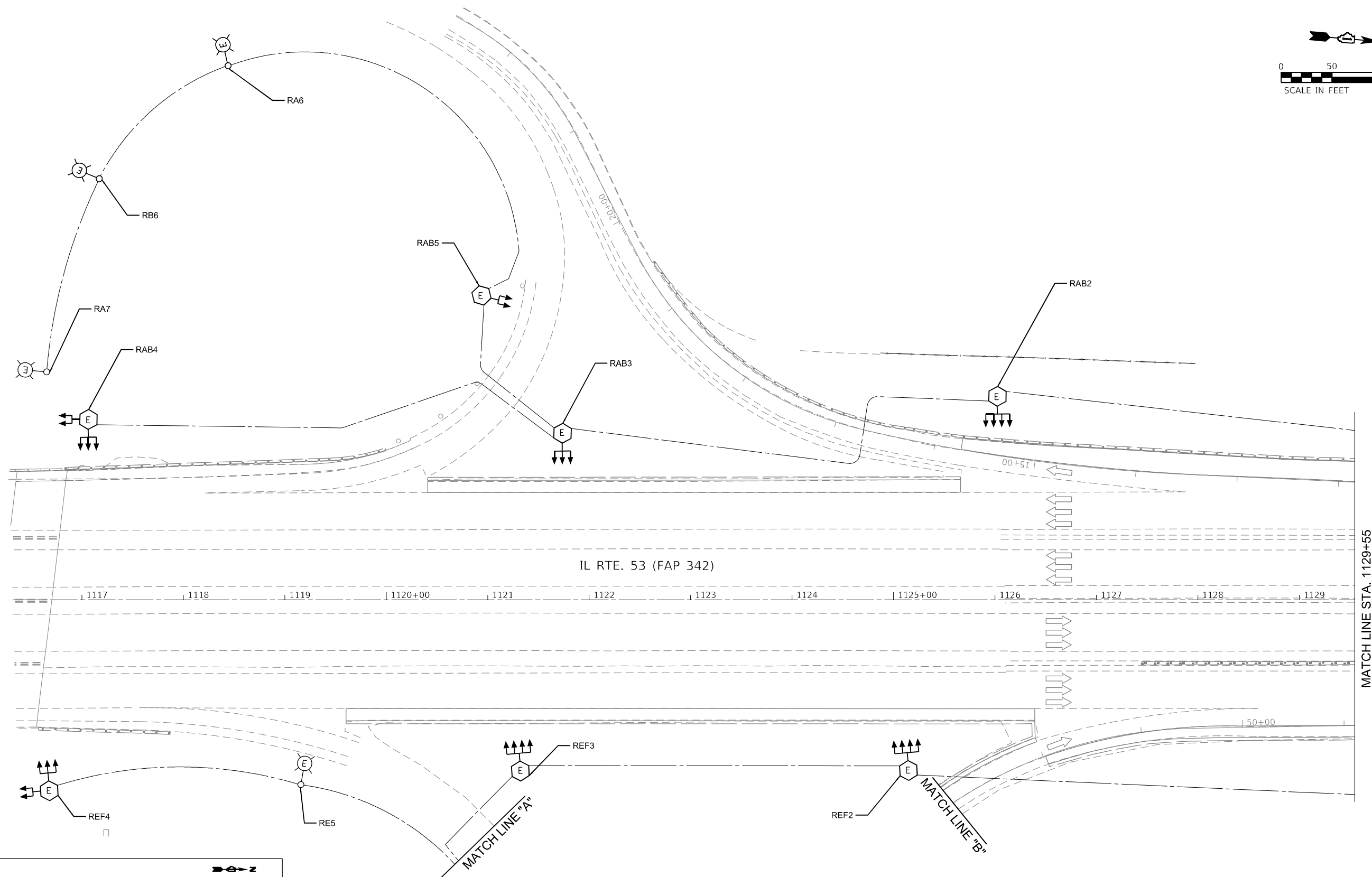
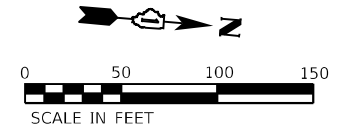
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

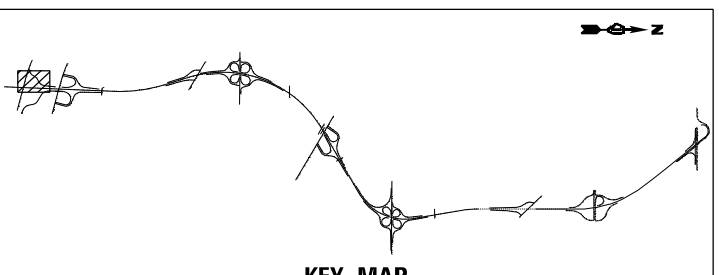
LIGHTING BILL OF MATERIALS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	578
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N91	



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 SHEET: 579



KEY MAP



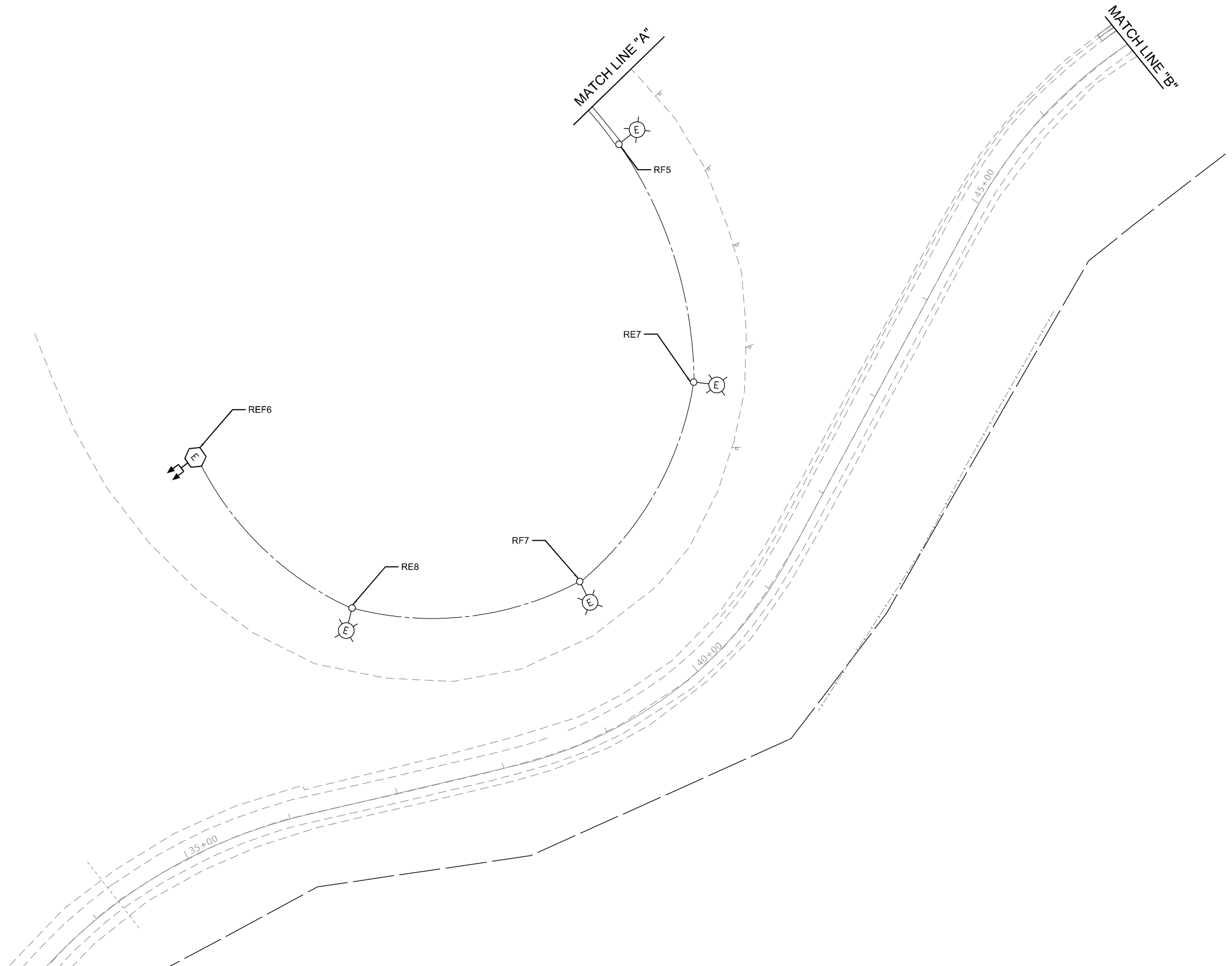
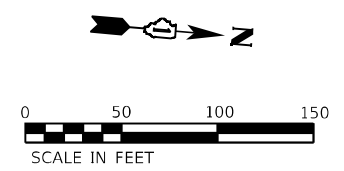
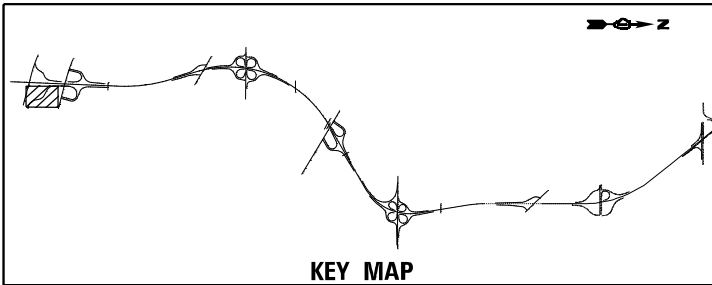
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PLOT DATE = 1/23/2025	CHECKED - RP/MG	REVISED -
	DATE - 1/24/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 579
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N91	



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PLOT SCALE = 100,0000' / in.
PLOT DATE = 1/23/2025

DESIGNED - VG
DRAWN - AP/MAG
CHECKED - RP/MG
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REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

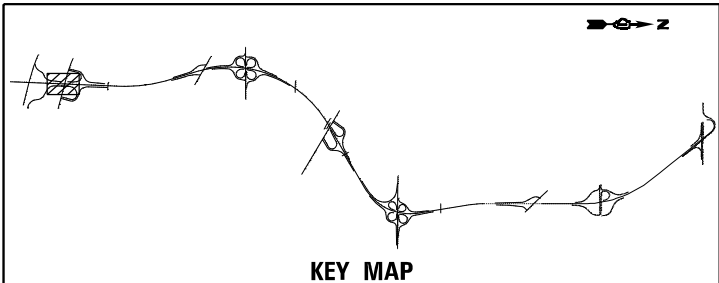
**IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN**

SCALE: 1" = 50'

SHEET OF SHEETS STA. TO STA.

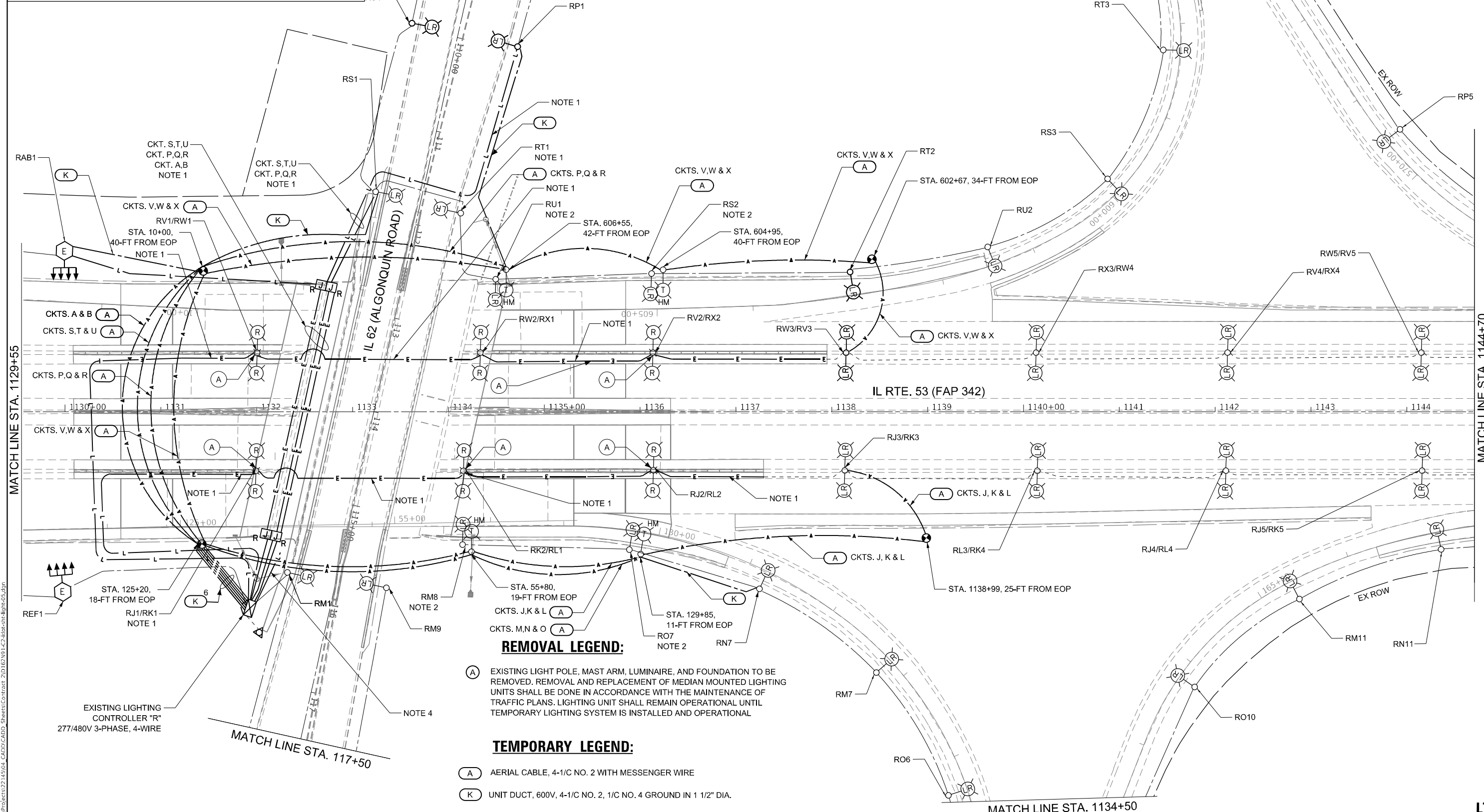
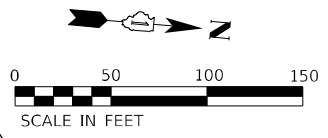
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	580
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

LT-04



NOTES:

- EXISTING CIRCUITS SHALL REMAIN UNTIL THE TEMPORARY LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
- EXISTING LUMINAIRES WILL BE TEMPORARILY DEACTIVATED DURING CONSTRUCTION AND RECONNECTED UPON COMPLETION OF PROPOSED LIGHTING SYSTEM.
- AERIAL CABLES SHALL BE INSTALLED TO PROVIDE A MINIMUM OF 18-FOOT CLEARANCE BETWEEN THE SURFACE OF THE ROADWAY AND THE CABLE.
- SEE UNDERPASS REMOVAL LIGHTING PLAN FOR DETAILS.



REMOVAL LEGEND:

- (A) EXISTING LIGHT POLE, MAST ARM, LUMINAIRE, AND FOUNDATION TO BE REMOVED. REMOVAL AND REPLACEMENT OF MEDIAN MOUNTED LIGHTING UNITS SHALL BE DONE IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC PLANS. LIGHTING UNIT SHALL REMAIN OPERATIONAL UNTIL TEMPORARY LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.

TEMPORARY LEGEND:

- (A) AERIAL CABLE, 4-1/C NO. 2 WITH MESSENGER WIRE
- (K) UNIT DUCT, 600V, 4-1/C NO. 2, 1/C NO. 4 GROUND IN 1 1/2" DIA.

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PLOT SCALE = 100,0000' / in.	DRAWN - AP/MAG	REVISED -
PLOT DATE = 1/23/2025	CHECKED - RP/IMG	REVISED -
	DATE - 1/24/2025	REVISED -

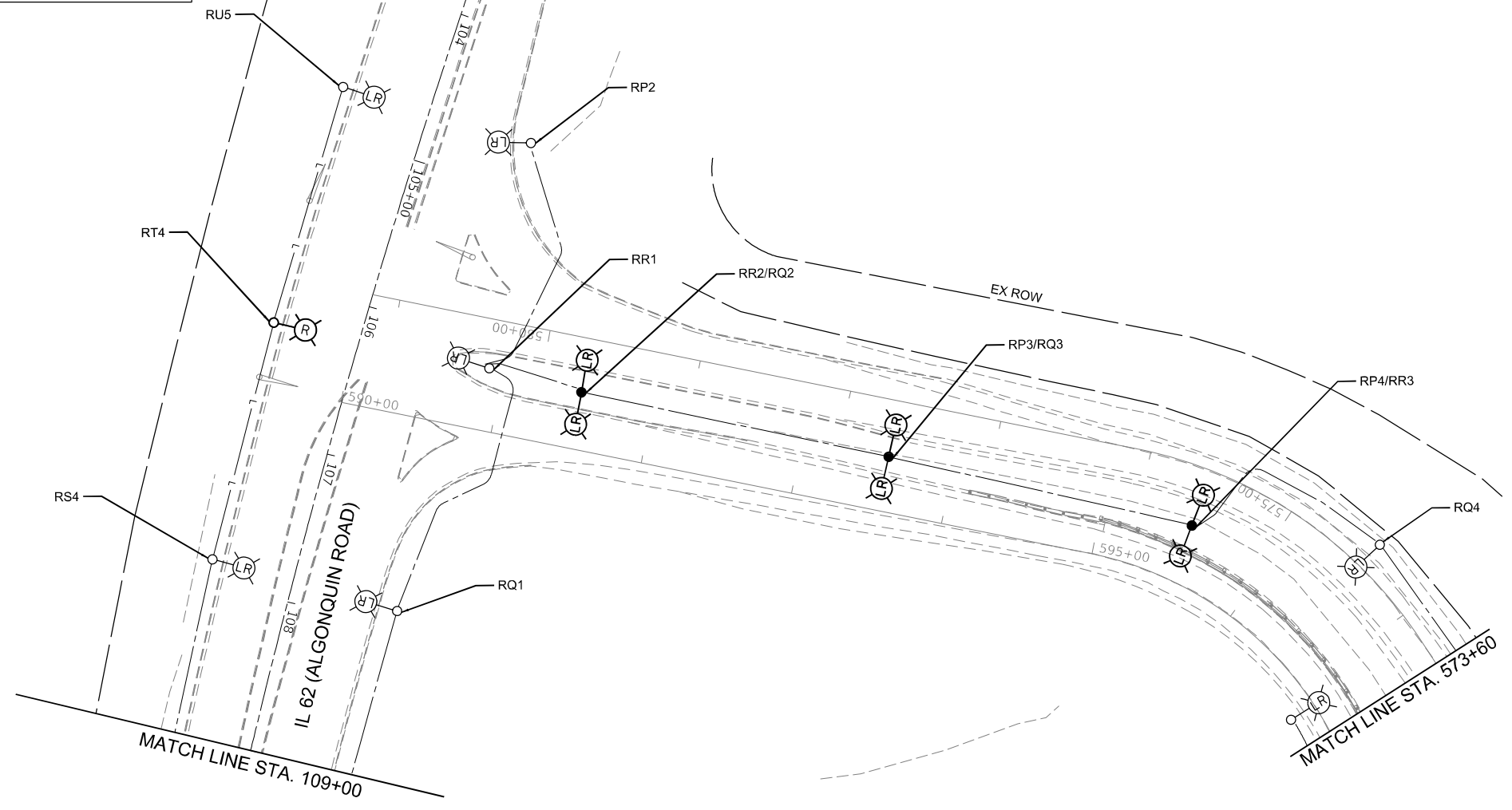
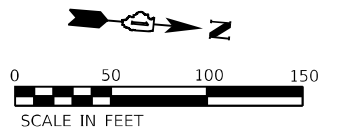
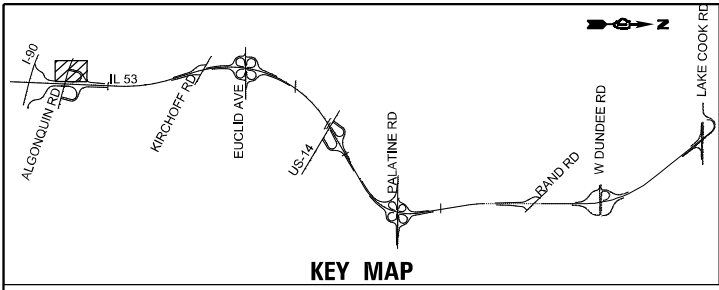
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN

SCALE: SHEET 1" - 50' OF SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 581
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

LT-05



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 PLOT DATE = 1/23/2025

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 CHECKED - RP/MG
 DATE - 1/24/2025

REVISED -
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 REVISED -

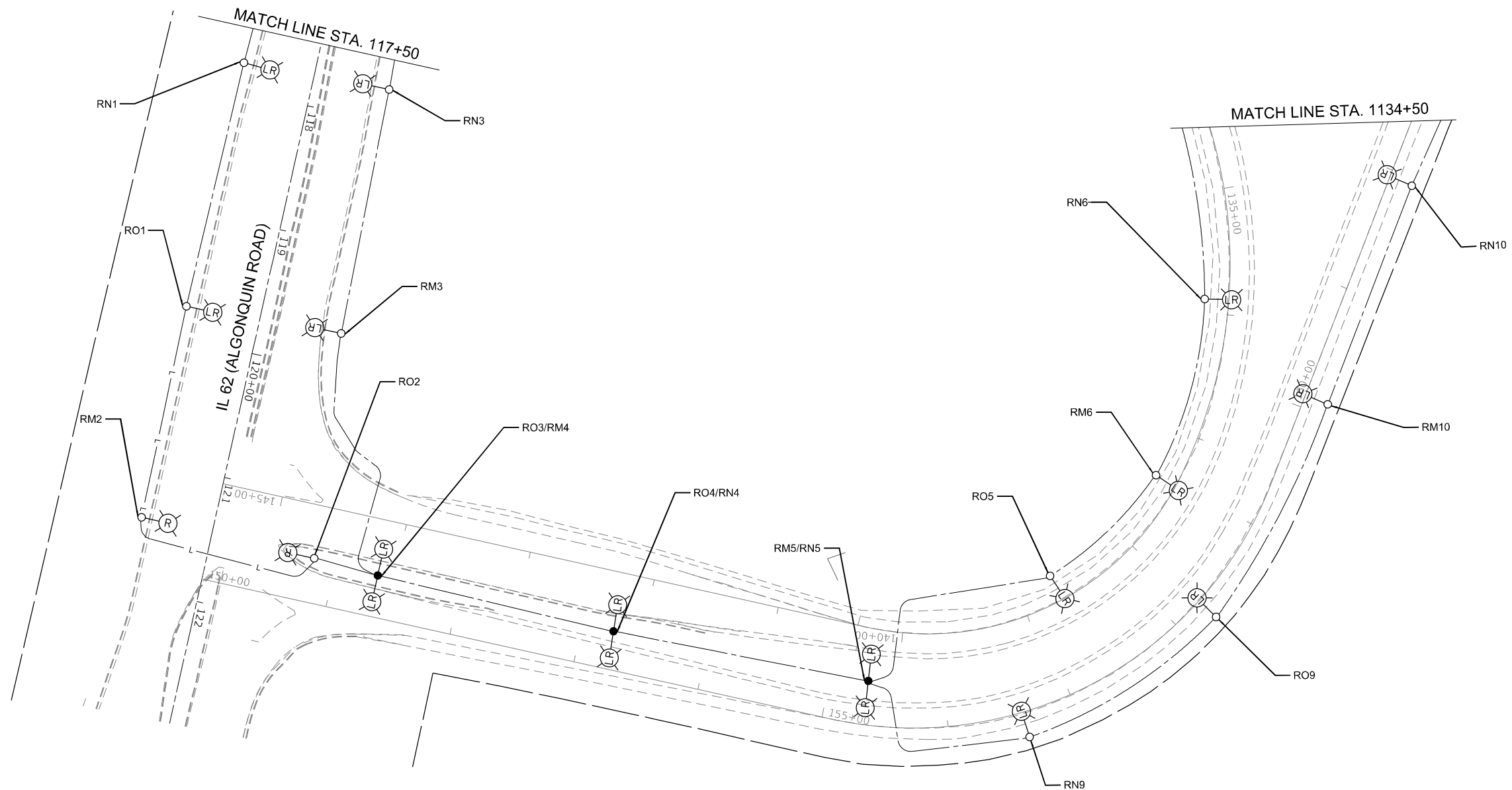
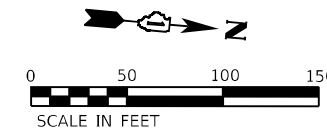
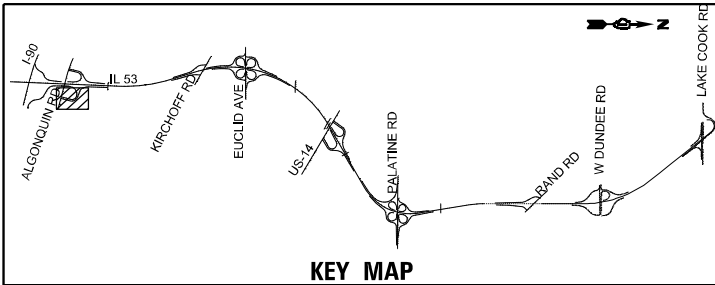
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	582
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

LT-06



MODEL: D:\p\h\...
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DRAWN - AP/MAG	CHECKED - RP/MG	REVISED -
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PLOT DATE = 1/23/2025		

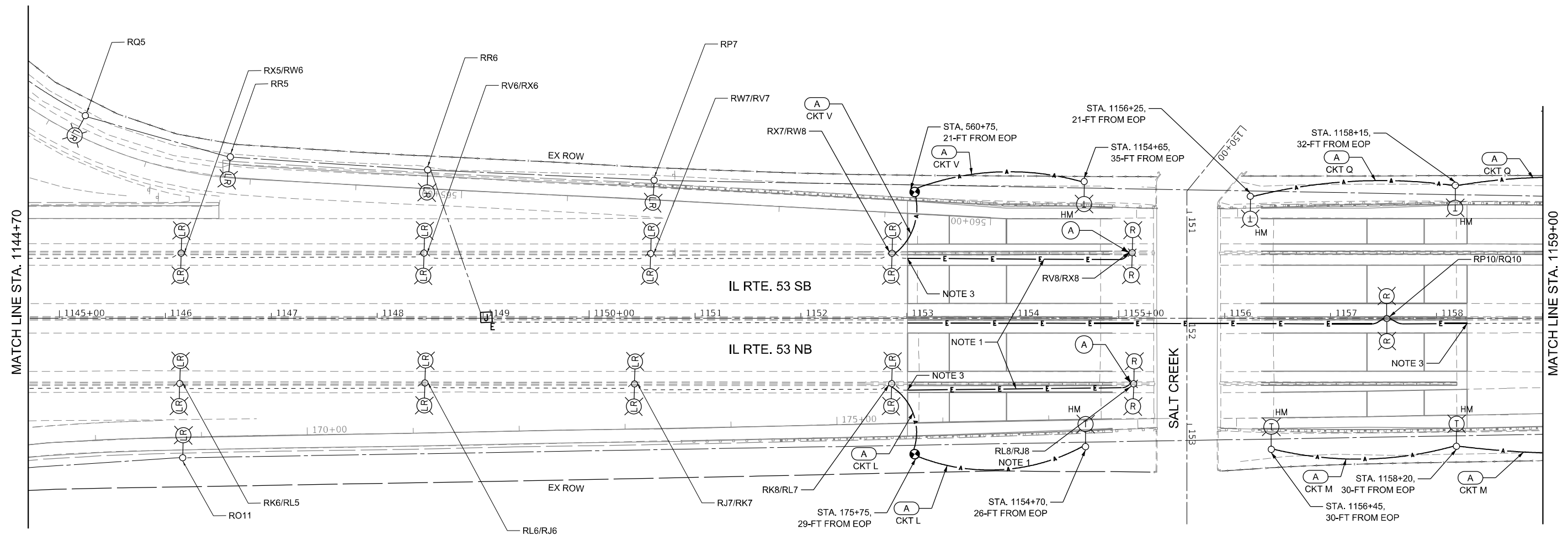
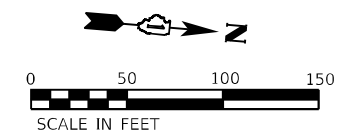
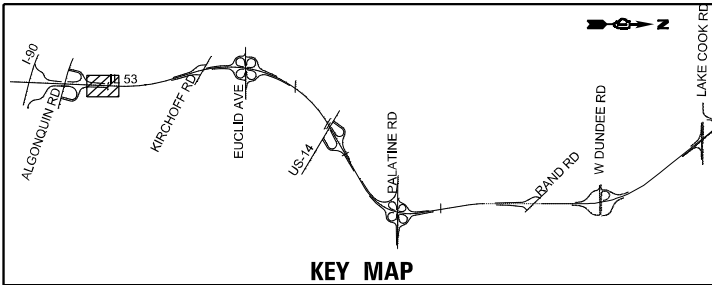
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	583
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

LT-07



REMOVAL LEGEND:

- (A) EXISTING LIGHT POLE, MAST ARM, LUMINAIRE, AND FOUNDATION TO BE REMOVED. REMOVAL AND REPLACEMENT OF MEDIAN MOUNTED LIGHTING UNITS SHALL BE DONE IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC PLANS. LIGHTING UNIT SHALL REMAIN OPERATIONAL UNTIL TEMPORARY LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL

TEMPORARY LEGEND:

- (A) AERIAL CABLE, 4-1/C NO. 2 WITH MESSENGER WIRE

NOTES:

1. EXISTING CIRCUITS SHALL REMAIN UNTIL THE TEMPORARY LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
2. AERIAL CABLES SHALL BE INSTALLED TO PROVIDE A MINIMUM OF 18-FOOT CLEARANCE BETWEEN THE SURFACE OF THE ROADWAY AND THE CABLE
3. ROD & CLEAN CONDUIT AFTER REMOVAL OF CABLE IN CONDUIT.

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	DATE - 1/24/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

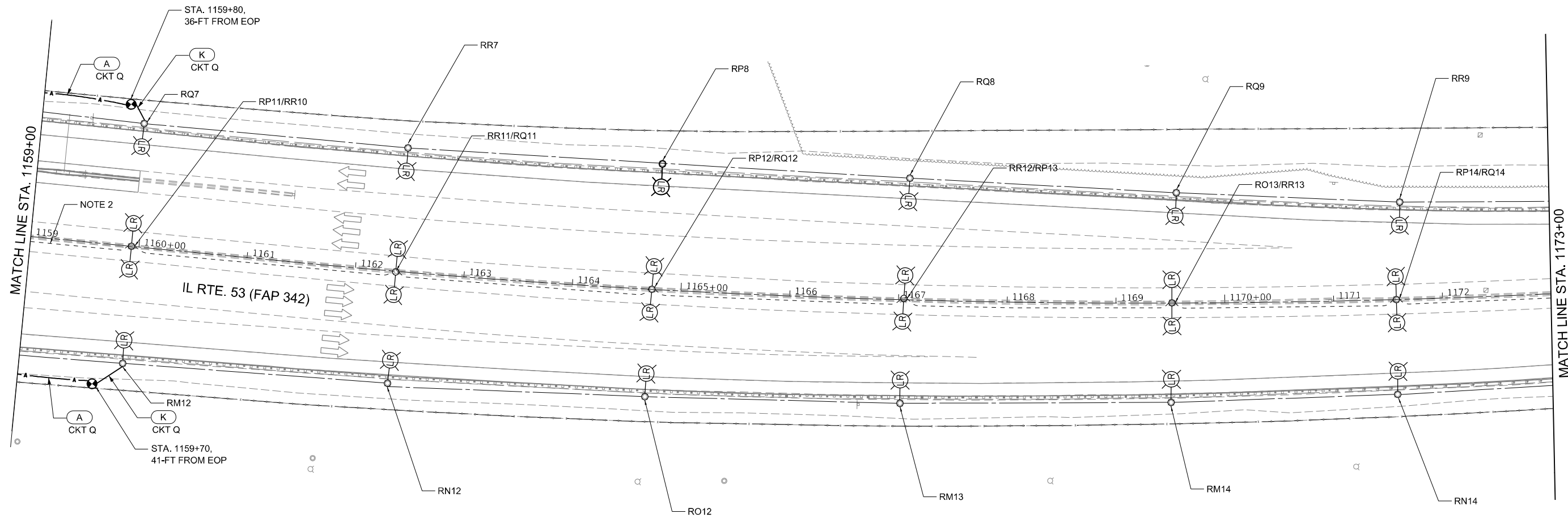
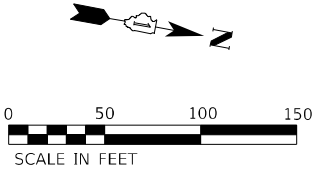
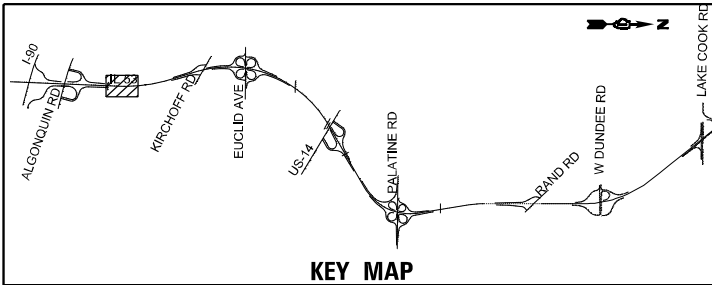
IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN

SCALE: 1" = 50'

SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 584
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

LT-08



TEMPORARY LEGEND:

- (A) AERIAL CABLE, 4-1/C NO. 2 WITH MESSENGER WIRE
- (K) UNIT DUCT, 600V, 4-1/C NO. 2, 1/C NO. 4 GROUND IN 1 1/2" DIA.

NOTES:

1. EXISTING CIRCUITS SHALL REMAIN UNTIL THE TEMPORARY LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
2. ROD & CLEAN CONDUIT AFTER REMOVAL OF CABLE IN CONDUIT.

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USER NAME = vnuñez	DESIGNED - VG	REVISED -
DRAWN - AP/MAG	REVISIONS -	
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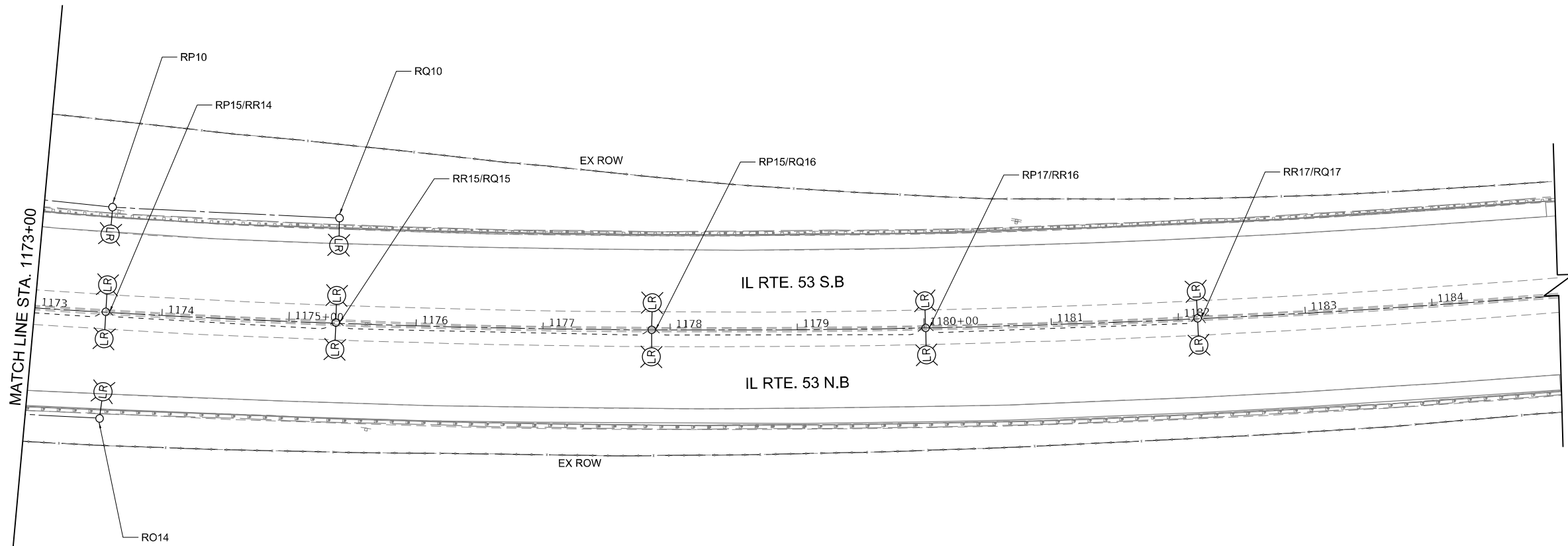
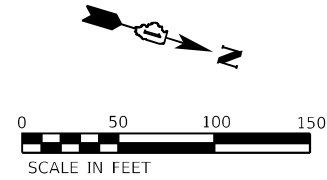
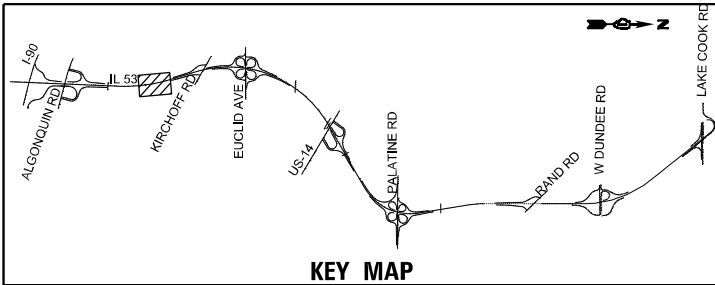
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN

SCALE: 1"=50" SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	585
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

LT-09



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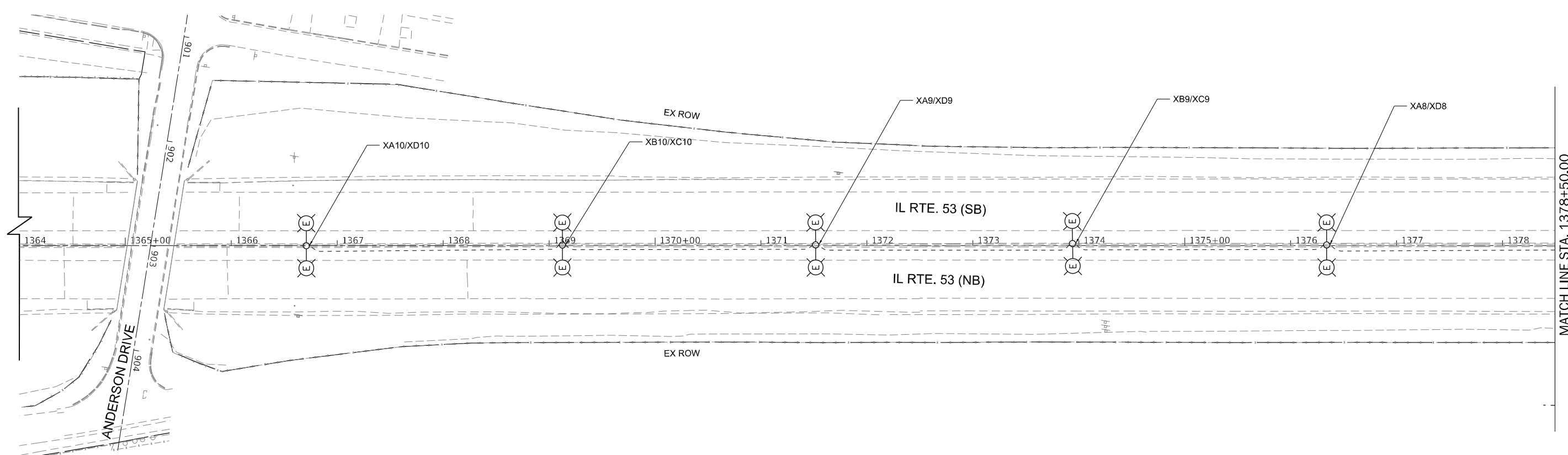
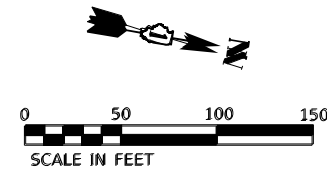
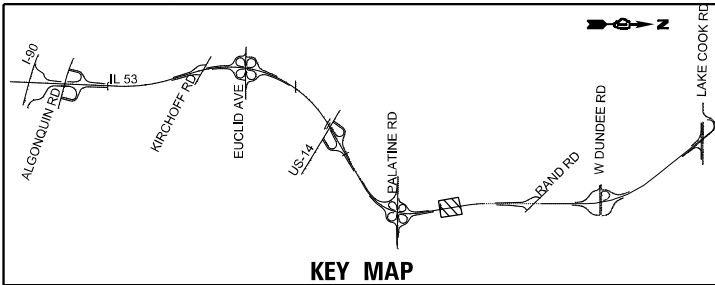
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	586
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

LT-10



MODEL: D:\p\h\h
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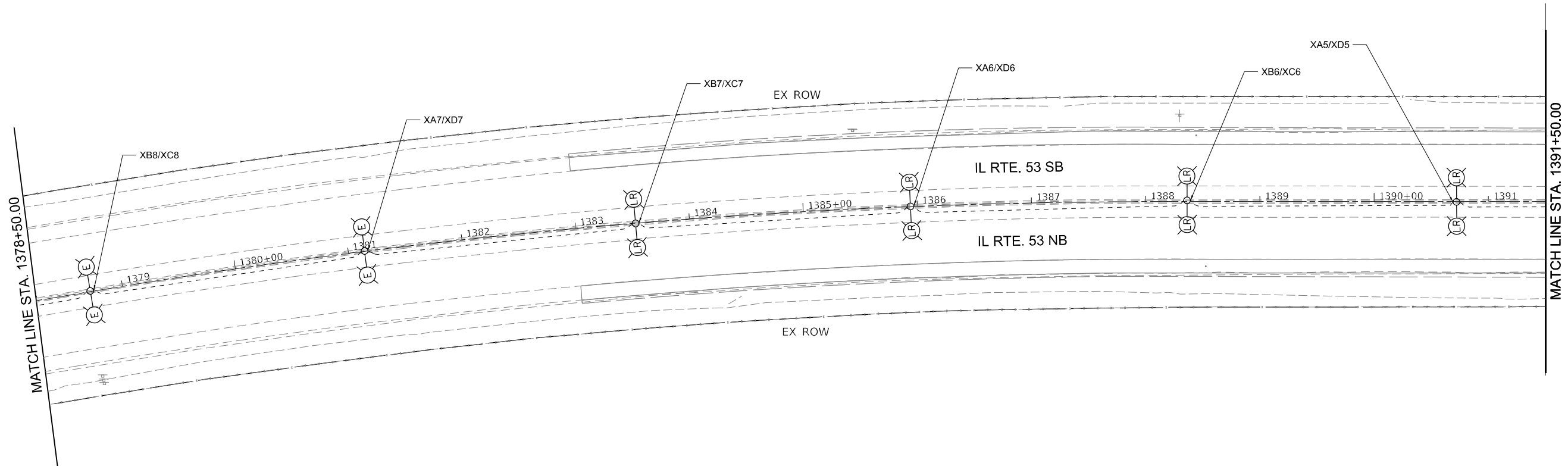
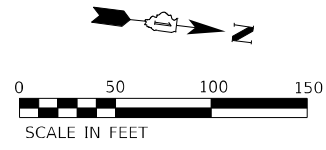
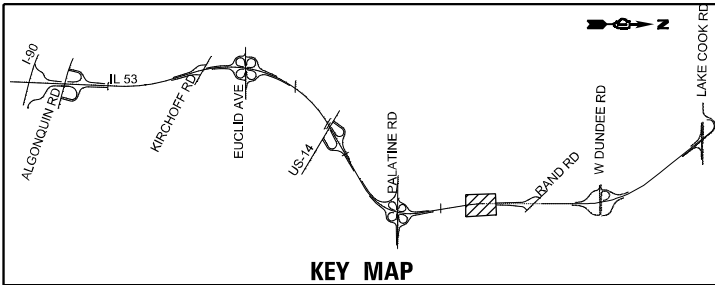
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN

SCALE: 1" = 50' SHEET OF SHEETS STA. 1364+00.00 TO STA. 1378+50.00

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 587
CONTRACT NO. 62N91			ILLINOIS FED. AID PROJECT	

LT-11



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DRAWN - AP/MAG	REVISIONS -	
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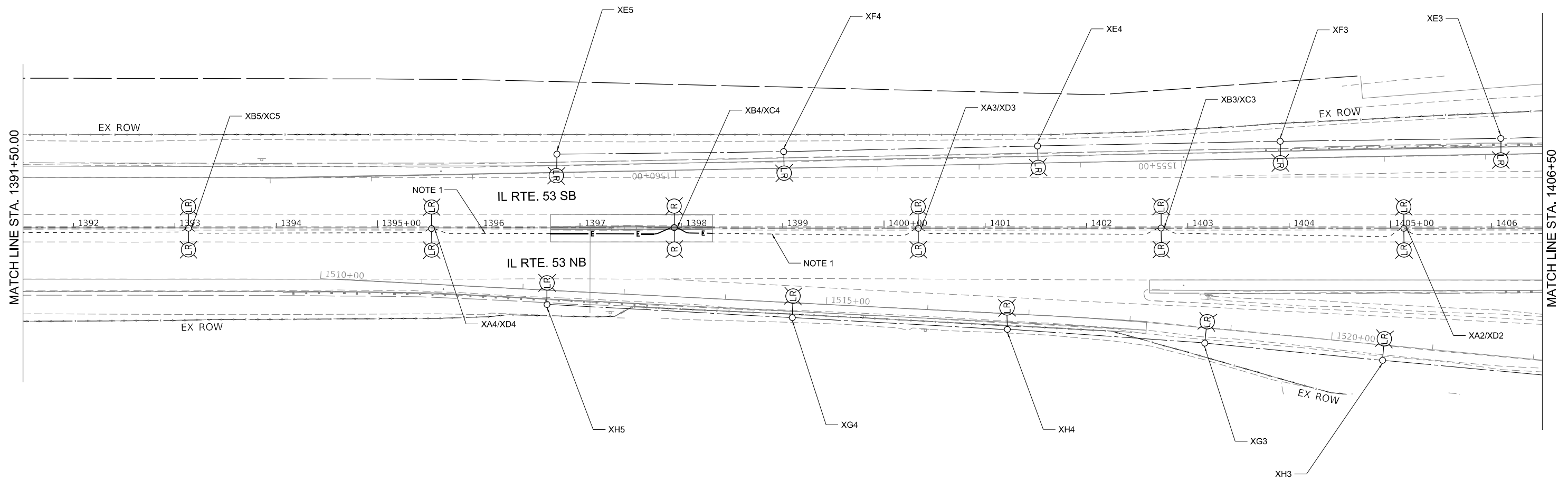
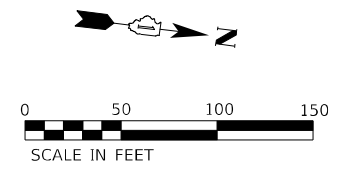
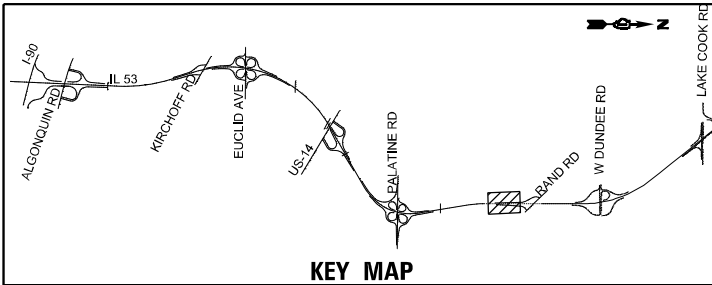
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN

SCALE: 1" = 50' SHEET OF SHEETS STA. 1378+50.00 TO STA. 1391+50.00

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 588
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N91	

LT-12



- NOTES:**
1. ROD & CLEAN CONDUIT AFTER REMOVAL OF CABLE IN CONDUIT.

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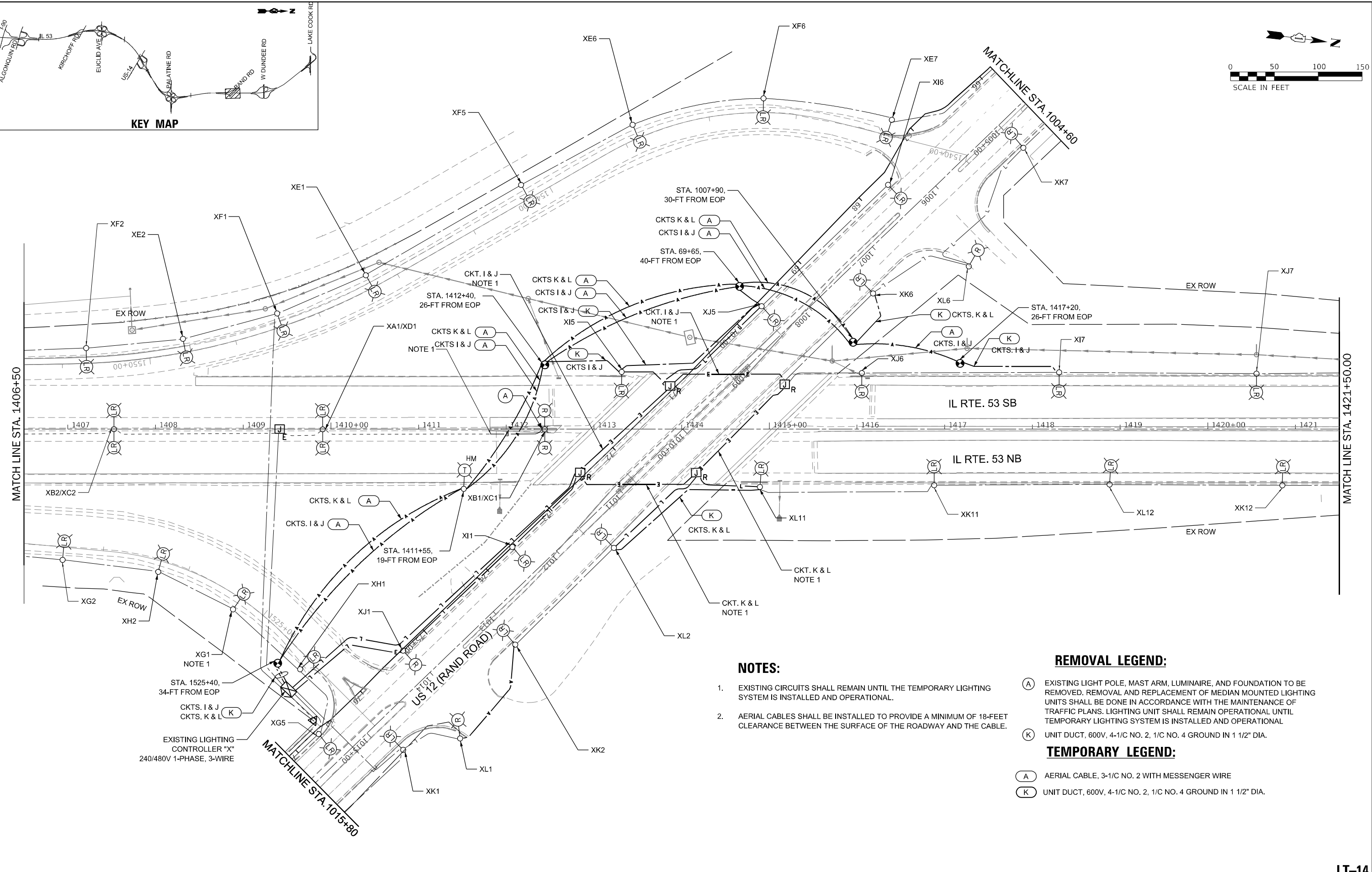
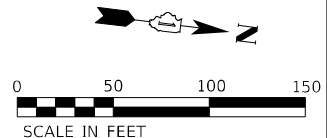
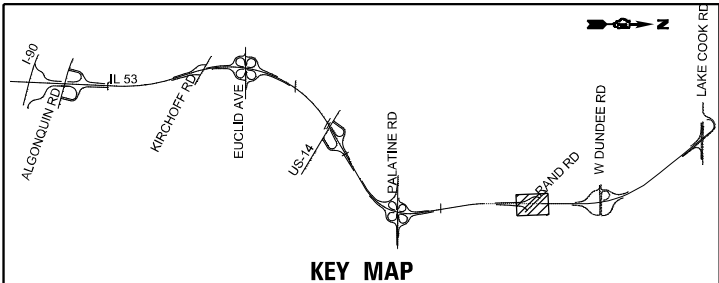
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PLOT DATE = 1/23/2025	DATE - 1/24/2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN**

SCALE: 1" = 50' SHEET OF SHEETS STA. 1391+50.00 TO STA. 1406+50.00

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 589
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N91	



NOTES:

- EXISTING CIRCUITS SHALL REMAIN UNTIL THE TEMPORARY LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL.
- AERIAL CABLES SHALL BE INSTALLED TO PROVIDE A MINIMUM OF 18-FOOT CLEARANCE BETWEEN THE SURFACE OF THE ROADWAY AND THE CABLE.

REMOVAL LEGEND:

- (A) EXISTING LIGHT POLE, MAST ARM, LUMINAIRE, AND FOUNDATION TO BE REMOVED. REMOVAL AND REPLACEMENT OF MEDIAN MOUNTED LIGHTING UNITS SHALL BE DONE IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC PLANS. LIGHTING UNIT SHALL REMAIN OPERATIONAL UNTIL TEMPORARY LIGHTING SYSTEM IS INSTALLED AND OPERATIONAL
- (K) UNIT DUCT, 600V, 4-1/C NO. 2, 1/C NO. 4 GROUND IN 1 1/2" DIA.

TEMPORARY LEGEND:

- (A) AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE
- (K) UNIT DUCT, 600V, 4-1/C NO. 2, 1/C NO. 4 GROUND IN 1 1/2" DIA.

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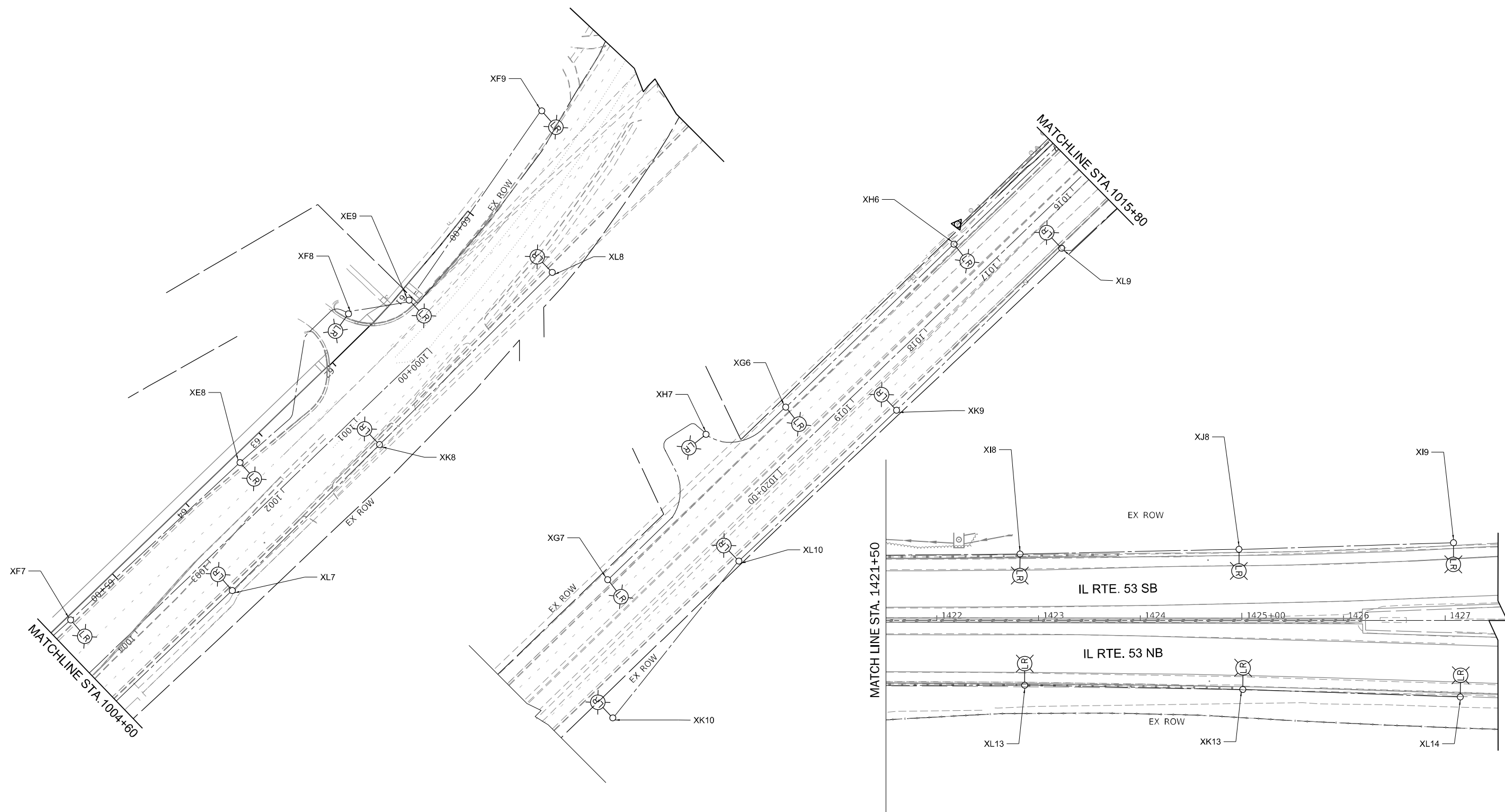
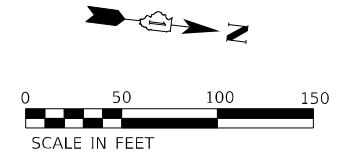
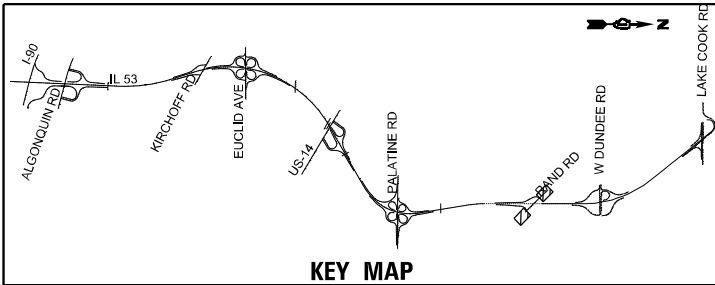


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PLOT DATE = 1/23/2025	CHECKED - RP/MG	REVISED -
	DATE - 1/24/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 580
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



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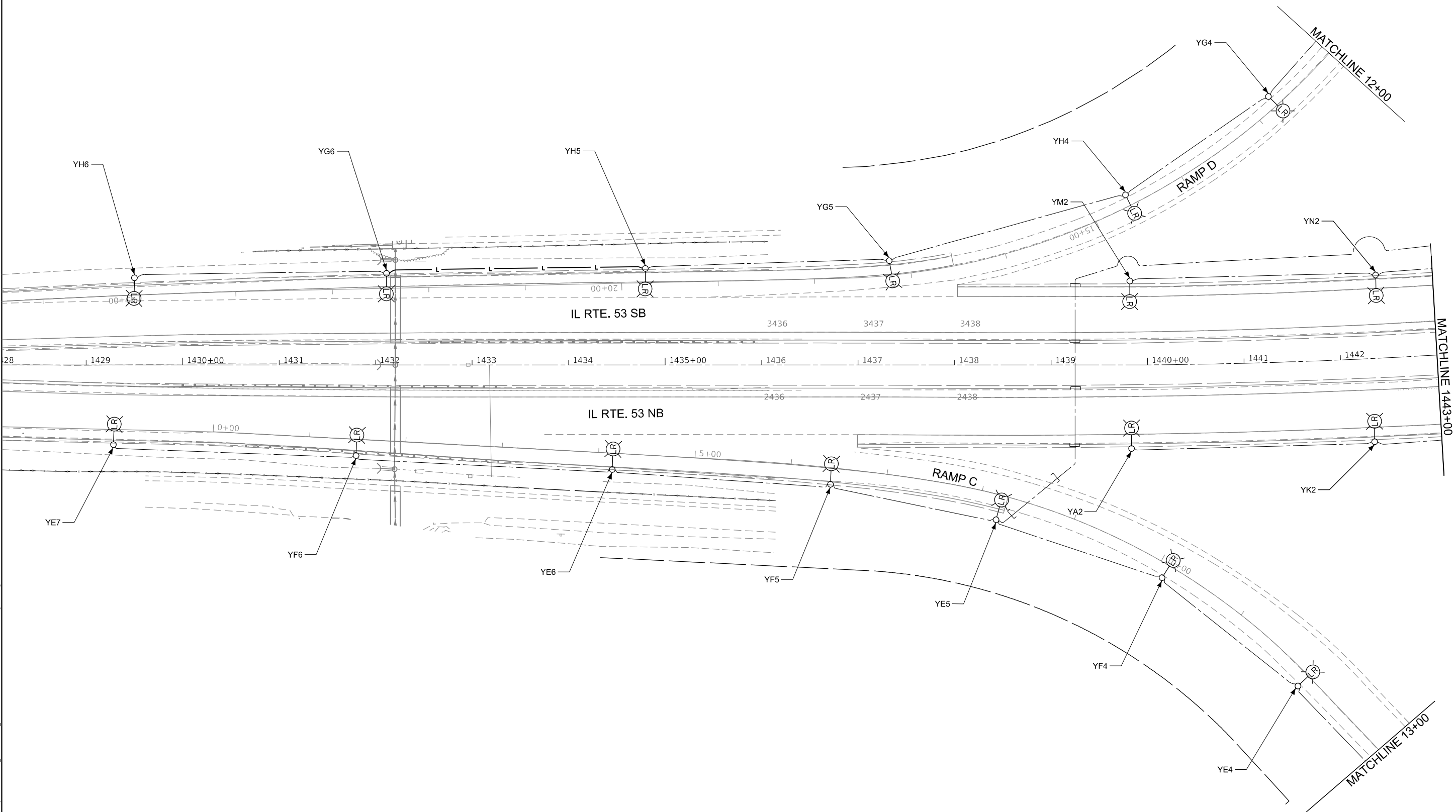
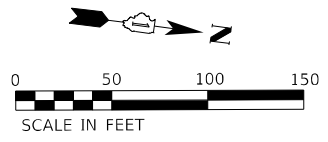
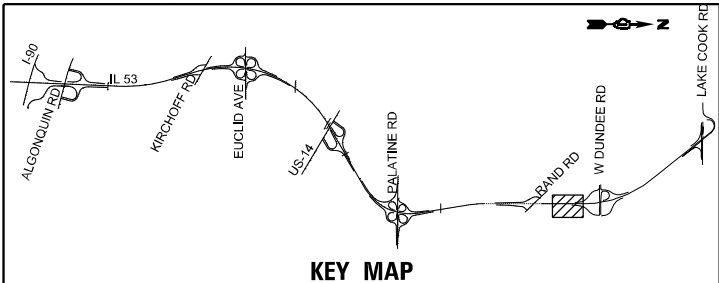
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	DATE - 1/24/2025	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 53
 TEMPORARY AND REMOVAL LIGHTING PLAN**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	591
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



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	DRAWN - AP/MAG	REVISED -
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PLOT DATE = 1/23/2025	DATE - 1/24/2025	REVISED -

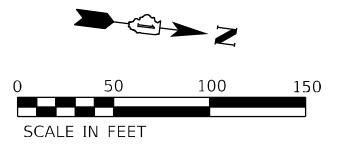
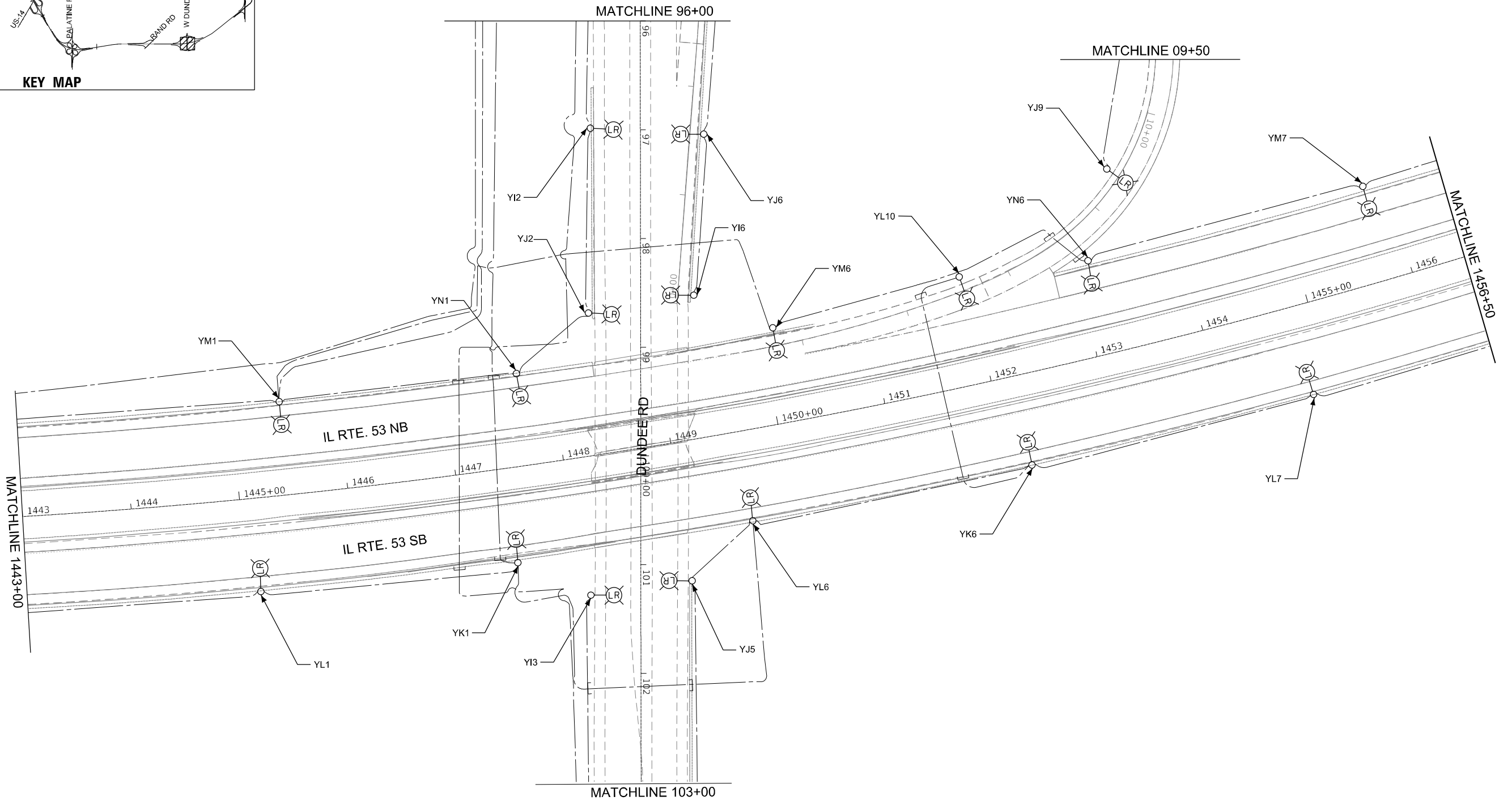
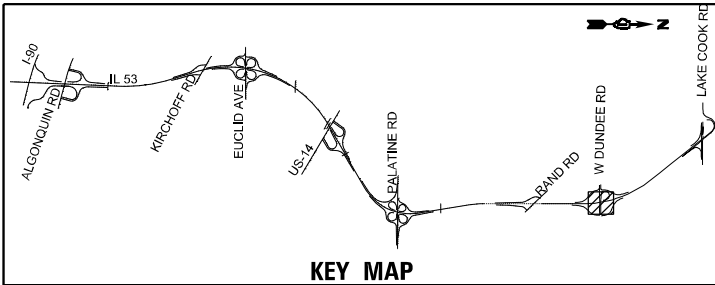
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	592
CONTRACT NO. 62N91			ILLINOIS FED. AID PROJECT	

LT-16



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

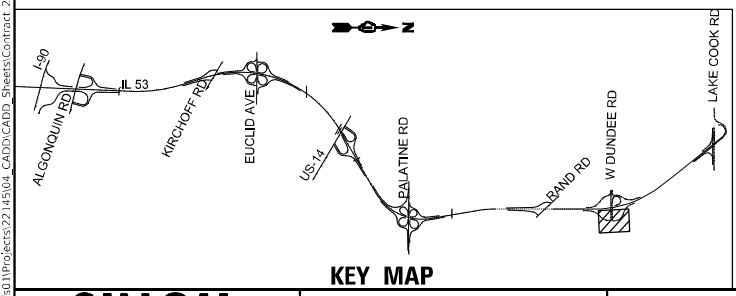
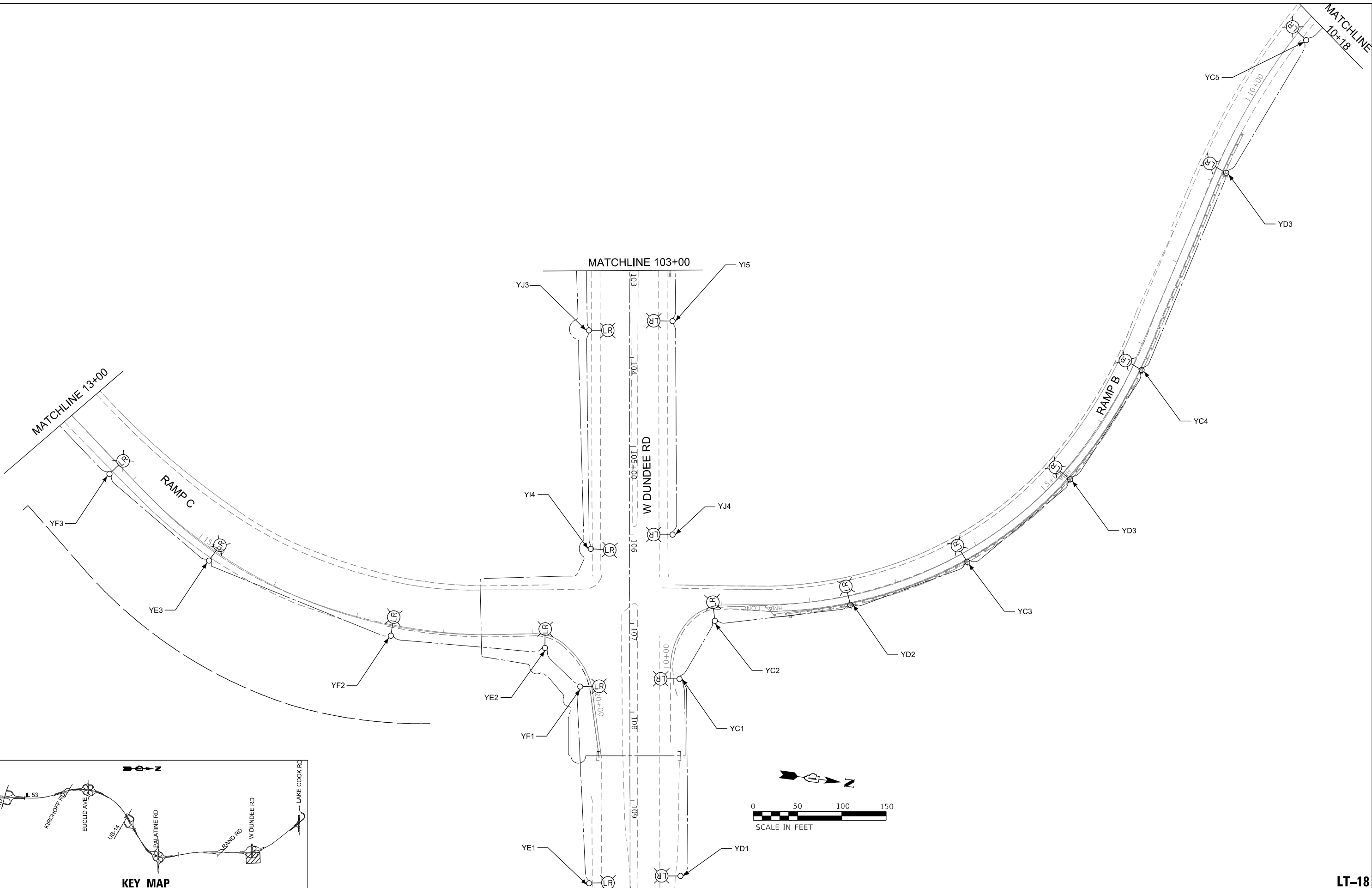
IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	593
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

LT-17

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 PLOT DATE: 1/23/2025



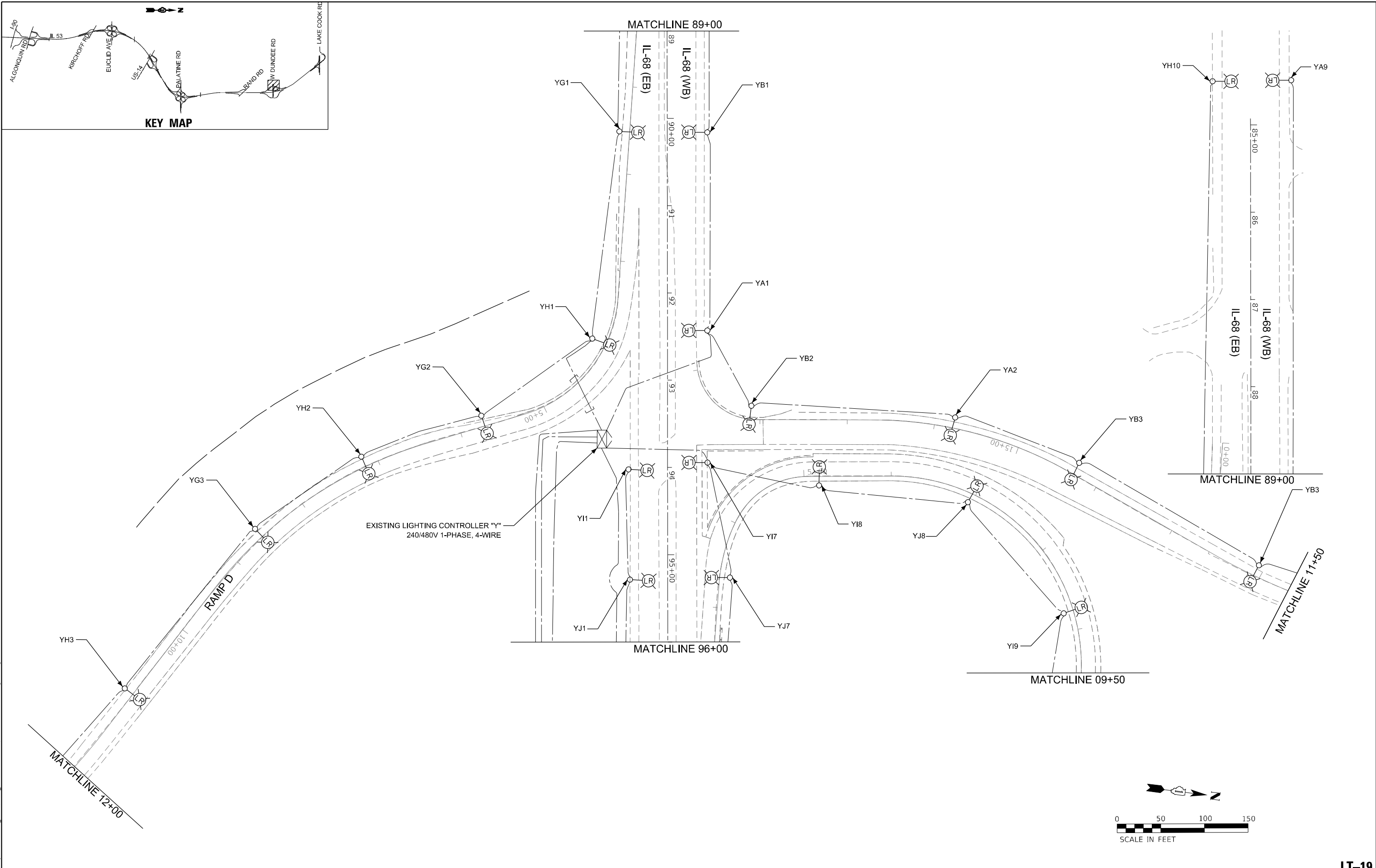
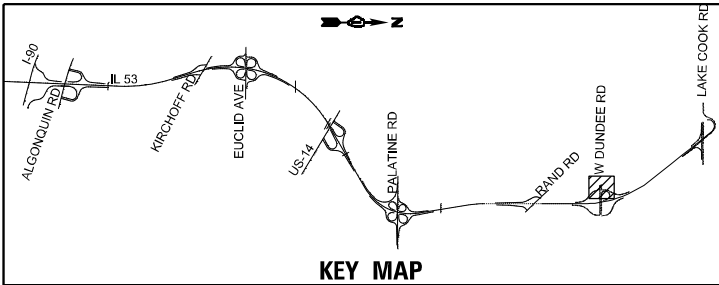
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	DATE - 1/24/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 594
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



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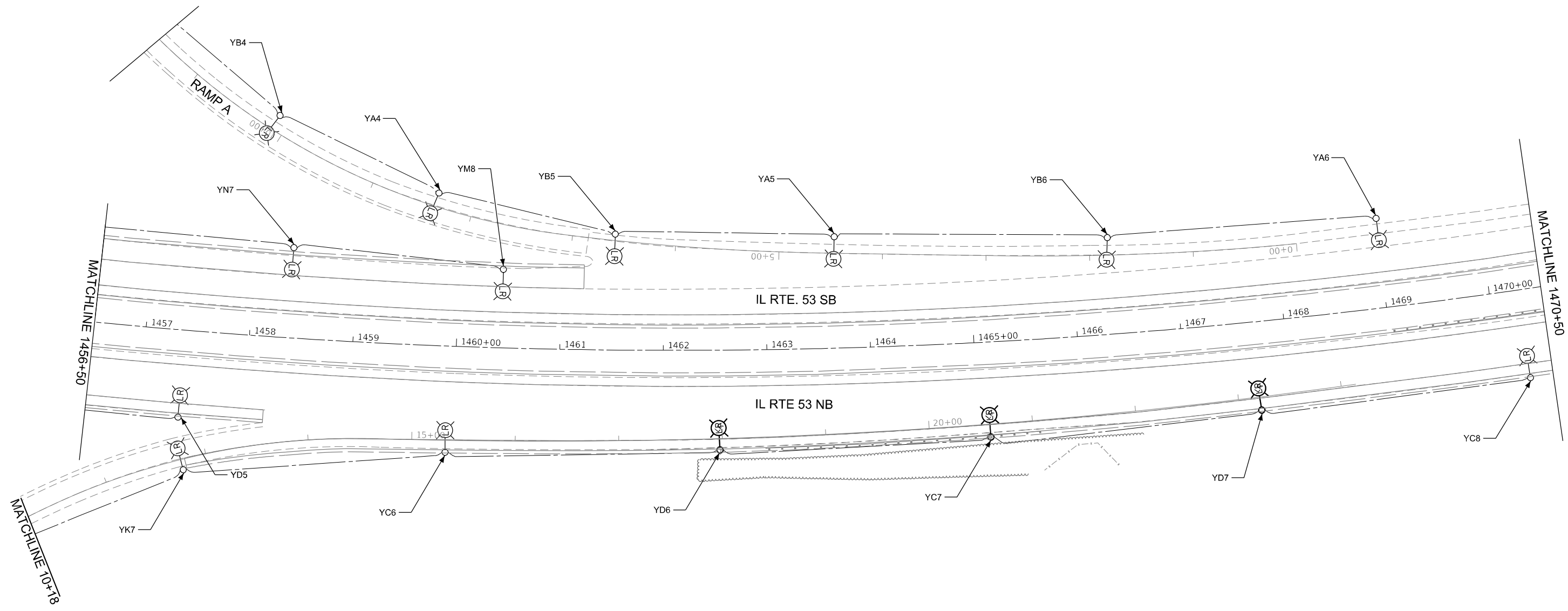
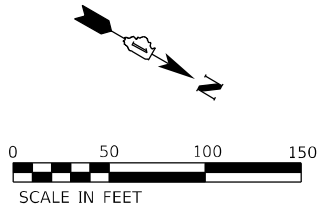
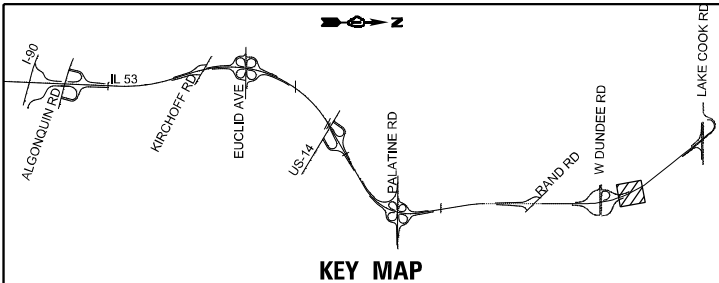
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PLOT DATE = 1/23/2025	CHECKED - RP/MG	REVISED -
	DATE - 1/24/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	595
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



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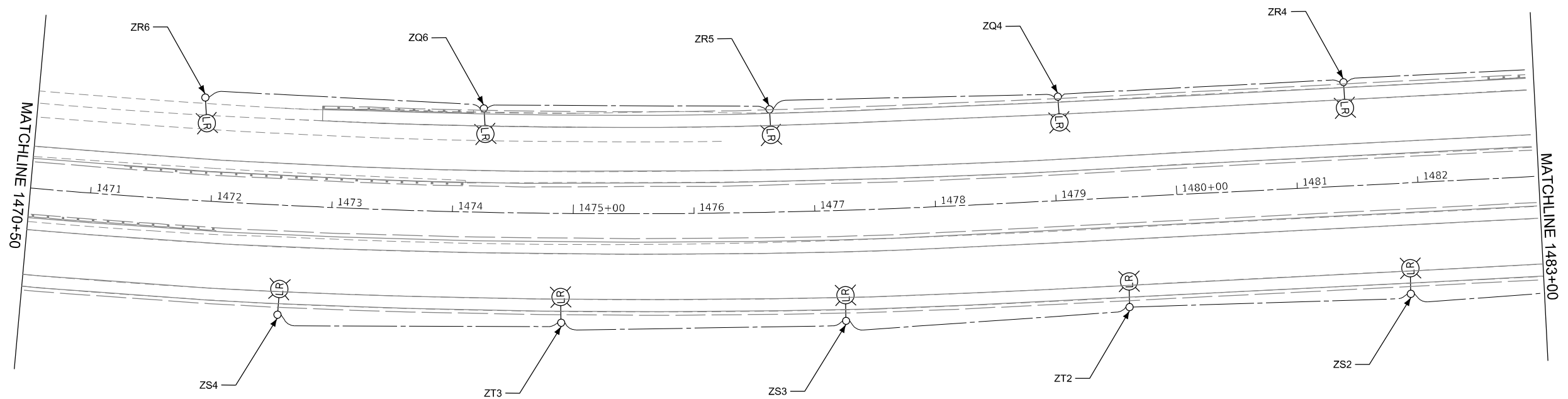
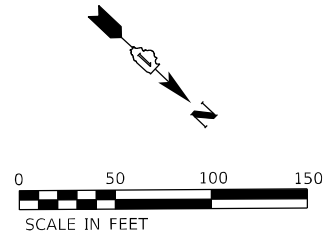
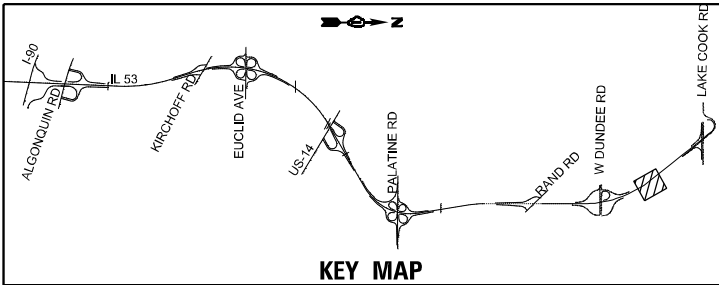
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PLOT DATE = 1/23/2025	DATE - 1/24/2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	586
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



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	DATE - 1/24/2025	REVISED -

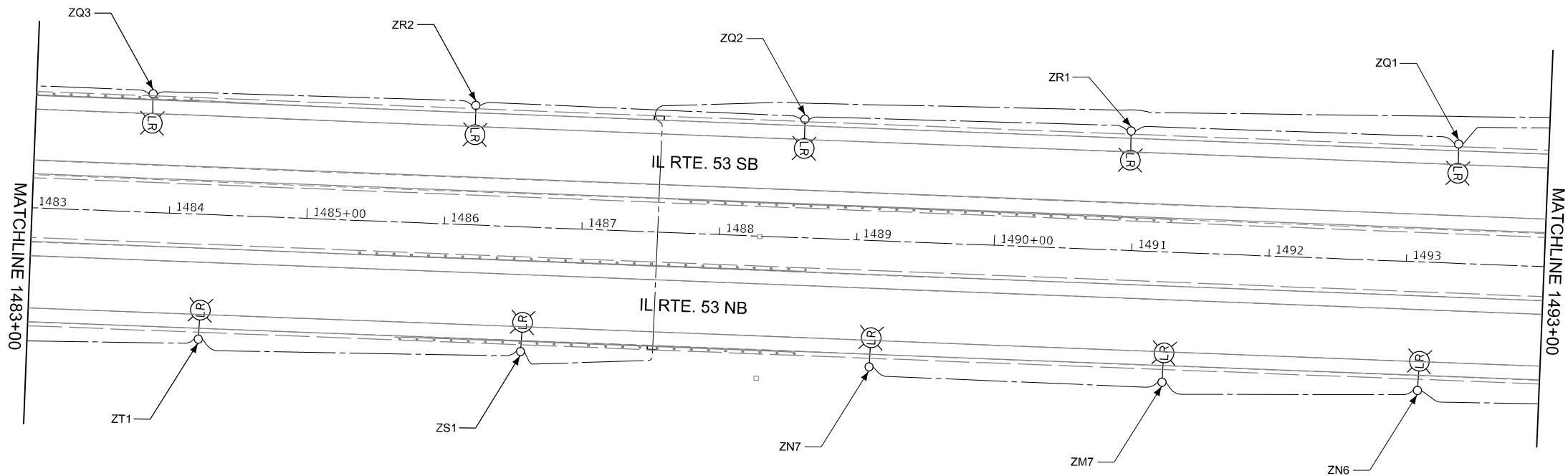
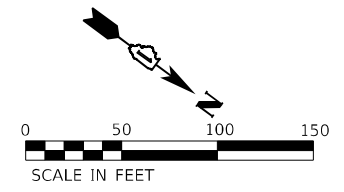
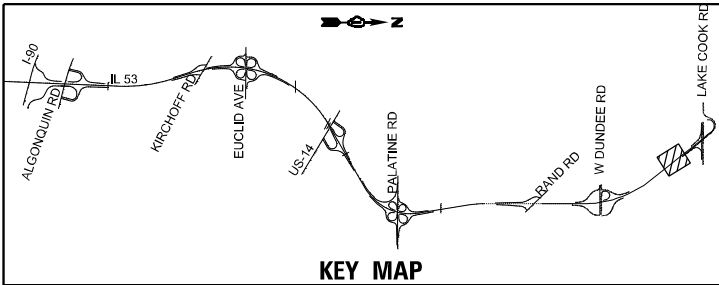
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 597
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N91	

LT-21



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 CONTRACT: 2018-100-BR
 SHEET: 1351



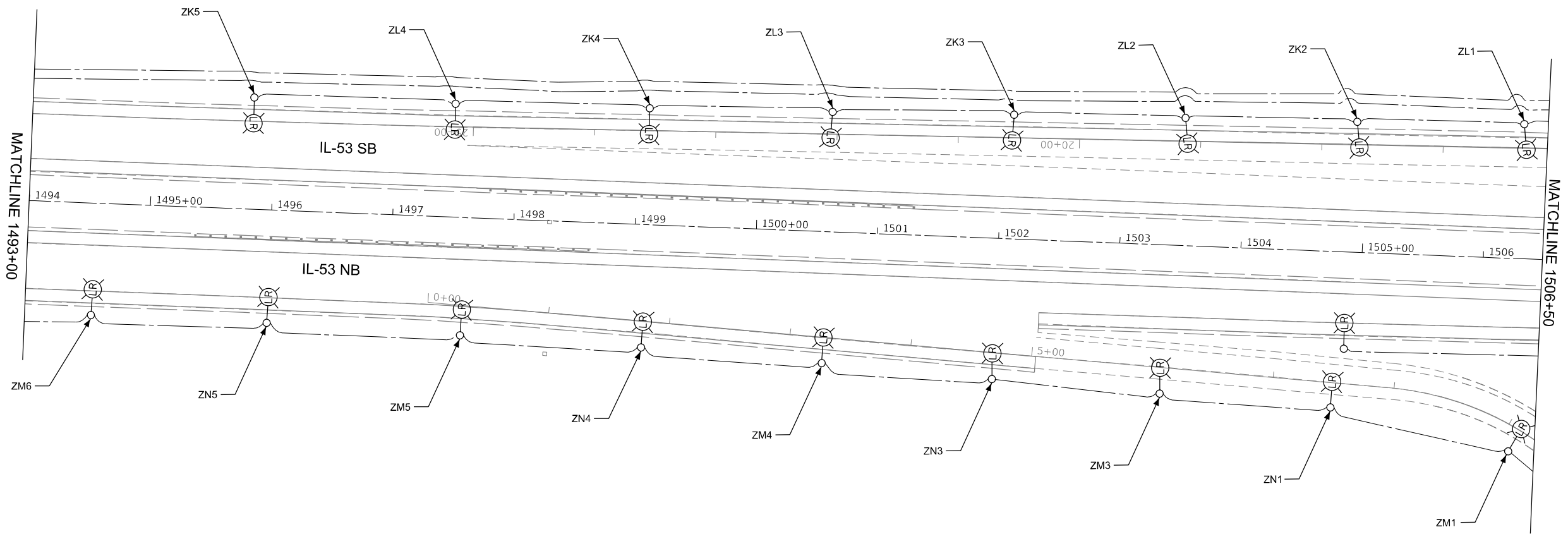
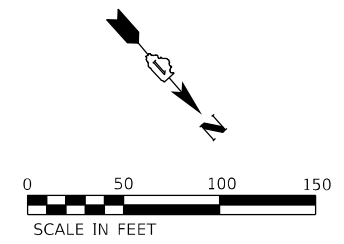
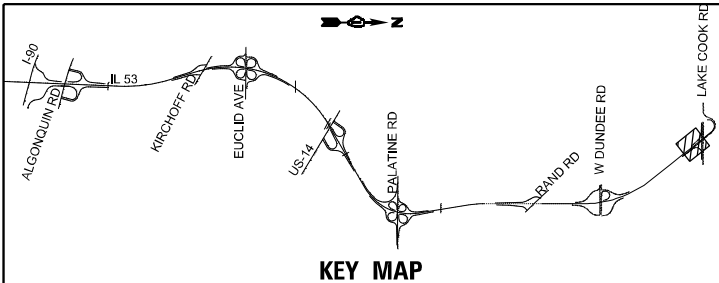
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CHECKED - RP/IMG	REVISIONS	
DATE - 1/23/2025	REVISIONS	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	598
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



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PLOT DATE = 1/23/2025	DATE - 1/24/2025	REVISED -

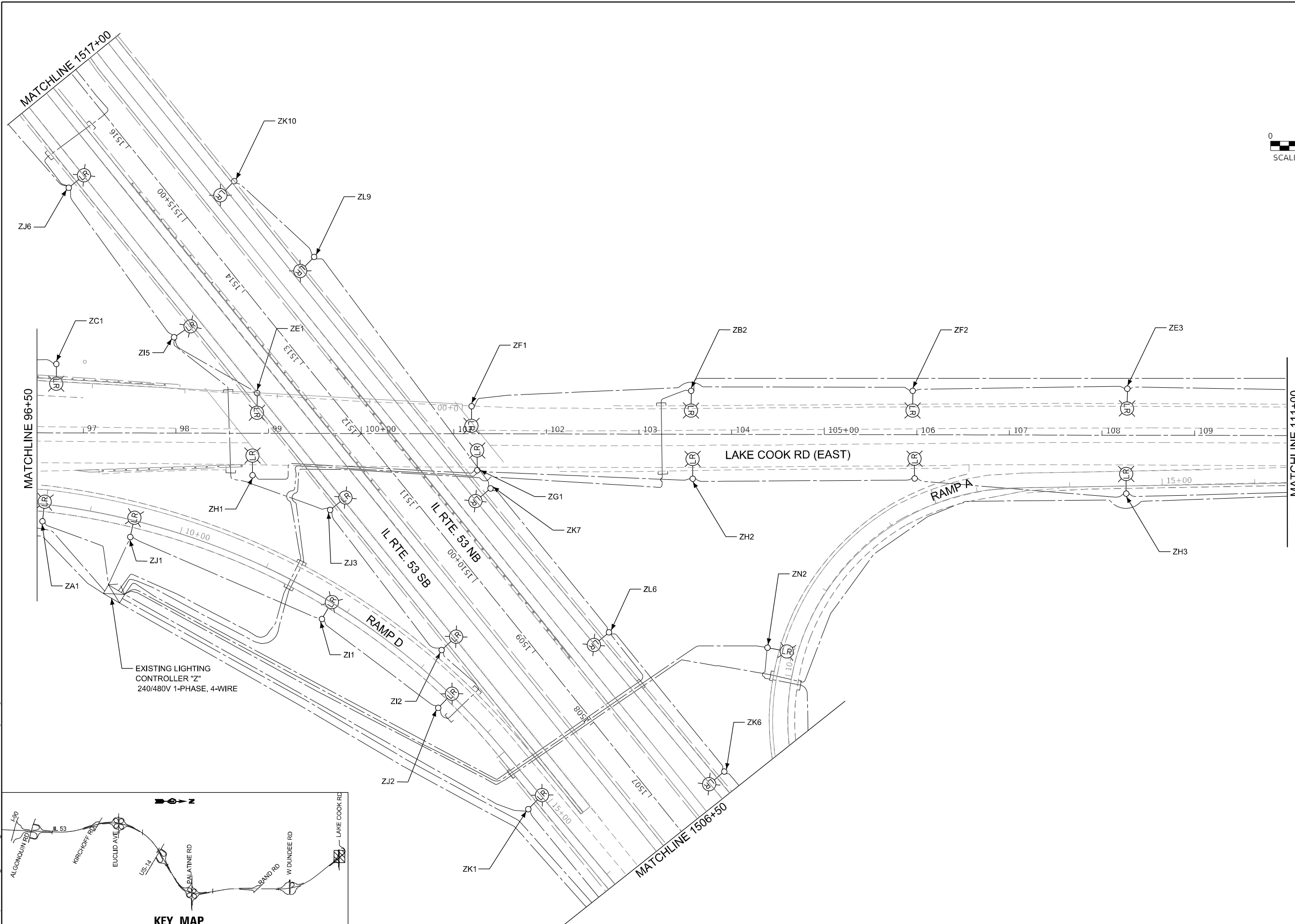
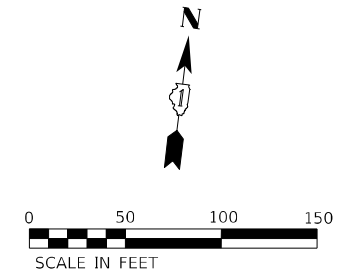
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN

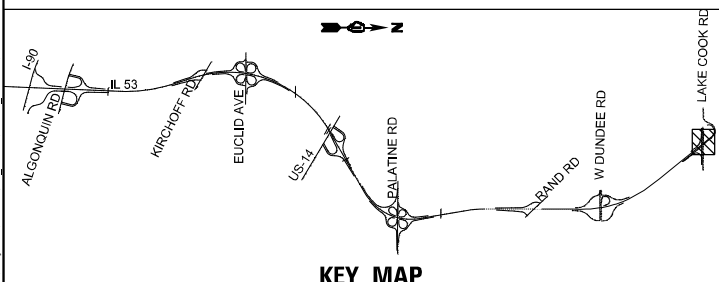
SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	599
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

LT-23



EXISTING LIGHTING CONTROLLER "Z" 240/480V 1-PHASE, 4-WIRE



KEY MAP

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PLOT DATE = 1/23/2025	DATE - 1/24/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
TEMPORARY AND REMOVAL LIGHTING PLAN

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 600
CONTRACT NO. 62N91			ILLINOIS FED. AID PROJECT	