

04-28-2017 LETTING ITEM 179

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 342: IL 53  
OVER SALT CREEK  
SECTION 2016-0551  
WINGWALL REPAIR  
COOK COUNTY

C-91-010-17

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2016-0551	COOK	21	1
		ILLINOIS	CONTRACT NO. 62D37	

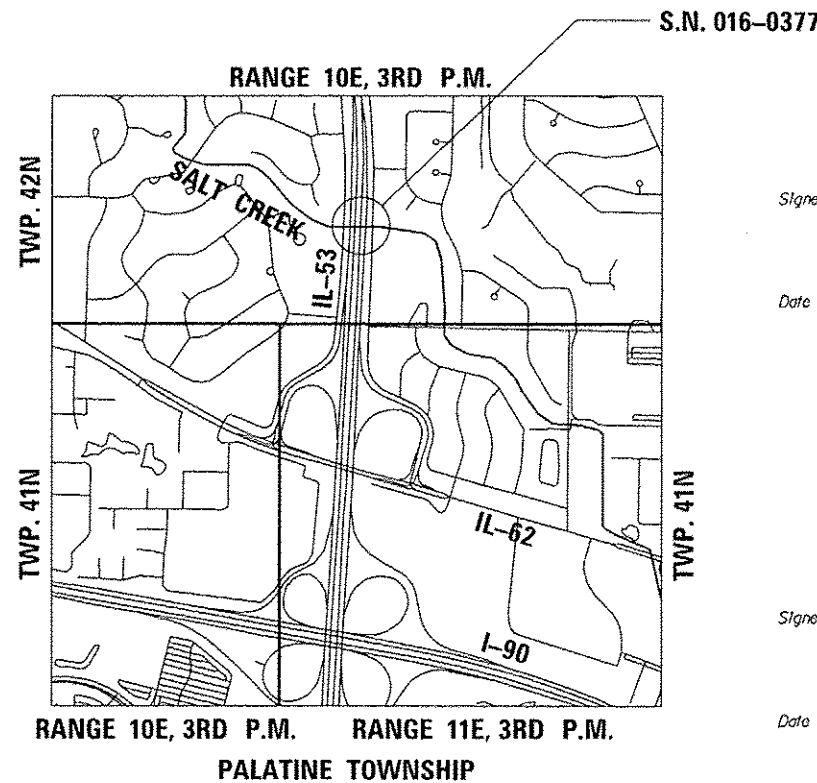
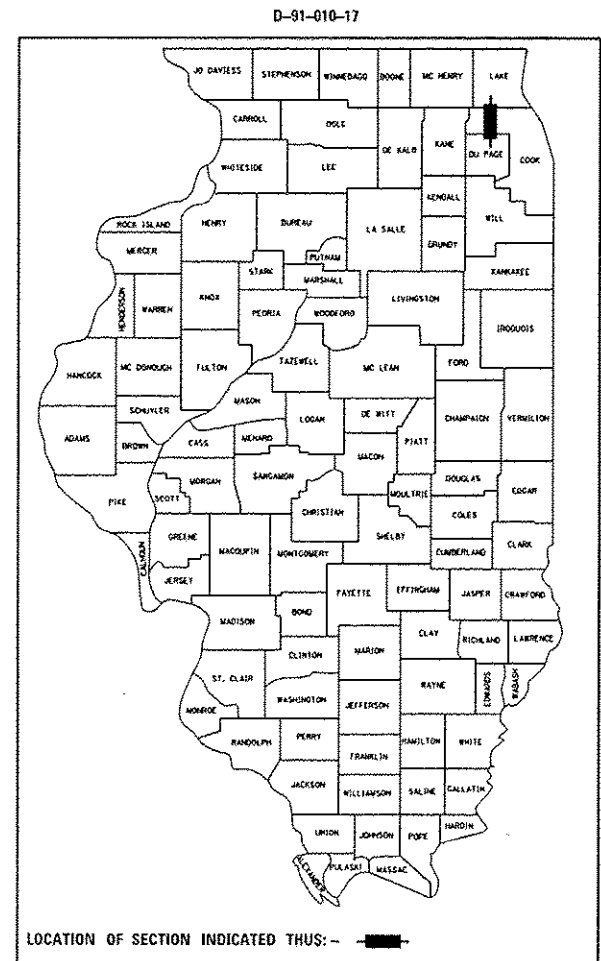
FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS IMPROVEMENT IS LOCATED IN  
THE CITY OF ROLLING MEADOWS

**TRAFFIC DATA**

IL 53  
ADT(2015) = 80,100  
POSTED SPEED = 55 MPH  
FUNCTIONAL CLASSIFICATION: FREEWAY

IL 53 E FRONTAGE RD  
ADT(2014) = 2850  
POSTED SPEED = 35 MPH  
FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR



LOCATION MAP  
NOT TO SCALE

NET AND GROSS LENGTH = 100 FT. = 0.02 MILE

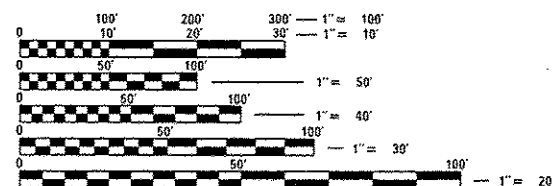


Signed *Joseph M. Glennon*  
Joseph M. Glennon, P.E.  
Il. Lic. No. 062-046610  
Expires 11-30-2017  
Date 02/16/2017  
For Sheets 1 thru 5



Signed *Moussa A. Issa*  
Dr. Moussa A. Issa, S.E.  
Il. Lic. No. 081-005738  
Expires 11-30-2018  
Date 02/16/2017  
For Sheets 12 thru 17

PREPARED BY



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

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER: ISSAM RAYYAN, P.E. (847) 705-4178  
PROJECT MANAGER: RAGHAD ADEIS-DAHMAN, P.E., S.E. (847) 705-5183

CONTRACT NO. 62D37

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED February 16, 2017

*Anthony J. Pinsky*  
REGIONAL ENGINEER

Mar 24, 2017  
*Moussa M. Addis*  
ENGINEER OF DESIGN AND ENVIRONMENT

Mar 24, 2017  
*David J. ...*  
DIRECTOR OF HIGHWAY DEVELOPMENT

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**INDEX OF SHEETS**

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND SCHEDULE
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- 5 MAINTENANCE OF TRAFFIC
- 6-11 LIGHTING PLANS
- 12-17 STRUCTURAL PLANS
- 18 ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)
- 19 TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE AND MULTI-LANE WEAVE (TC-09)
- 20 TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)
- 21 ARTERIAL ROAD INFORMATION SIGN (TC-22)

**LIST OF HIGHWAY STANDARDS**

STANDARD NO.	DESCRIPTION
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-10	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	MULTI-LANE, TRAFFIC CONTROL AT ENTRANCE OR EXIT RAMPS
701428-01	TRAFFIC CONTROL SETUP & REMOVAL FREEWAY/EXPRESSWAY
701446-08	TWO LANE CLOSURE FREEWAY/EXPRESSWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-06	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006	GUARDRAIL & BARRIER WALL REFLECTOR MOUNTING DETAILS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY

**GENERAL NOTES**

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES, 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 FOR ARTERIALS AND (847) 705-4151 FOR EXPRESSWAYS A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITY OF ROLLING MEADOWS.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE

THE "ARTERIAL ROAD INFORMATION SIGN (TC-22)" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS

THE DEPARTMENT HAS DETERMINED THAT IN STREAM WORK IS NOT REQUIRED FOR THE WORK SPECIFIED IN THIS CONTRACT. THE DEPARTMENT HAS NOT OBTAINED A 404 PERMIT. IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING AN USACE 404 PERMIT IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER USACE PERMITS.

**TRAFFIC CONTROL NOTES**

ACCESS TO WORK ZONE FROM THE FRONTAGE ROAD SHALL USE TEMPORARY DAYTIME CLOSURE PER HIGHWAY STANDARD 701501

WORK FROM IL 53 SHALL USE PERMANENT SHOULDER CLOSURE WITH TEMPORARY CONCRETE BARRIER PER DISTRICT DETAIL "TRAFFIC CONTROL DETAILS" FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES" (TC-17)

LANE CLOSURES AND 15 MINUTE FULL STOPS SHALL BE SET UP USING APPLICABLE HIGHWAY STANDARDS AND DISTRICT DETAILS TO INSTALL AND REMOVE THE TEMPORARY AERIAL CABLE OVER THE LANES. SEE LIGHTING PLANS.

CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED

STATION	TO	STATION	LENGTH (FOOT)
324+61.23		324+71.23	10
325+55.49		325+88.49	33
TOTAL			43

\*EARTH EXCAVATION

LOCATION	EARTH EXCAVATION (CU YD)	STRUCTURE EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%) (CU YD)	UNSUITABLE MATERIAL (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	TOPSOIL EXCAVATION AND PLACEMENT (CU YD)
BEHIND WINGWALL	385	94	359.25	0	355	+4.25	17

\*EARTHWORK EXCAVATION LIMITS/VOLUMES PROVIDED IN THE PLAN AND EARTHWORK SCHEDULE ARE BASED ON CONSERVATIVE ASSUMPTIONS. NO GROUND SURVEY HAS BEEN PERFORMED. PRIOR TO THE PROCUREMENT OF GRANULAR BACKFILL FOR STRUCTURE (NOTED IN THE PLAN TO BE THE FILL MATERIAL TO REPLACE EXCAVATED AREAS), THE ENGINEER SHALL MAKE A DETERMINATION OF THE EXTENTS OF EARTH EXCAVATION REQUIRED AND THUS THE VOLUME OF GRANULAR BACKFILL FOR STRUCTURE NEEDED. EXCAVATED MATERIAL SHALL BE USED WITHIN THE PROJECT LIMITS AS TOPSOIL OR FILL. IF USED AS FILL IT CAN BE PLACED IN LIEU OF GRANULAR BACKFILL FOR STRUCTURE BEGINNING AT A LIMIT 4 FEET OUTSIDE THE BACK OF NEW WINGWALL



USER NAME : Ken.drabant	DESIGNED - KJD, RTB	REVISED -
	DRAWN - KJD	REVISED -
PLOT SCALE = 480.0000 1" = 100'	CHECKED - RTB, JMG	REVISED -
PLOT DATE = 2/16/2017	DATE - 02/01/2017	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND SCHEDULE	
IL 53 OVER SALT CREEK	
SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2016-0551	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 2
ILLINOIS FED. AID PROJECT CONTRACT NO. 62D37				

Rev

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				100% STATE ✓	
				URBAN ✓	0014 ✓
20200100	EARTH EXCAVATION	CU YD	385	385	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	148	148	
25000210	SEEDING, CLASS 2A	ACRE	0.11	0.11	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	11	11	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	11	11	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	11	11	
50102400	CONCRETE REMOVAL	CU YD	45	45	
50200100	STRUCTURE EXCAVATION	CU YD	94	94	
50300225	CONCRETE STRUCTURES	CU YD	47.7	47.7	
50300300	PROTECTIVE COAT	SO YD	94	94	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	8670	8670	
52200020	TEMPORARY SOIL RETENTION SYSTEM	SO FT	785	785	
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	8	8	
55101600	STORM SEWER REMOVAL 36"	FOOT	8	8	

14  
• SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				100% STATE	
				URBAN	0014
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	75	75	
* 66900200	NONSPECIAL WASTE DISPOSAL	CU YD	100	100	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	1	1	
* 66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1	
67100100	MOBILIZATION	LSUM	1	1	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	1	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	102	102	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	102	102	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1	1	
78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	10	10	
* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	20	20	
* X1400233	UNIT DUCT, 600V, 4-1/C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 2" DIA. POLYETHYLENE	FOOT	950	950	
* 81800190	AERIAL CABLE, 2-1/C NO. 2 WITH MESSENGER WIRE	FOOT	1200	1200	
* 81800300	AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	1200	1200	
* X1400233	LIGHT POLE, WOOD, 50 FOOT, CLASS 4	EACH	1	1	

12



USER NAME - Konradobant	DESIGNED - KJD, RTB	REVISED -
DRAWN - KJD	REVISOR -	
PLOT SCALE - 480.0000 1" = 100'	CHECKED - RTB, JMG	REVISOR -
PLOT DATE - 2/16/2017	DATE - 02/01/2017	REVISOR -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
IL 53 OVER SALT CREEK

F.A.P. RTE. 342	SECTION 2016-0551	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 3
SCALE:			SHEET 1 OF 2 SHEETS STA. TO STA.	
ILLINOIS FED. AID PROJECT CONTRACT NO. 62037				

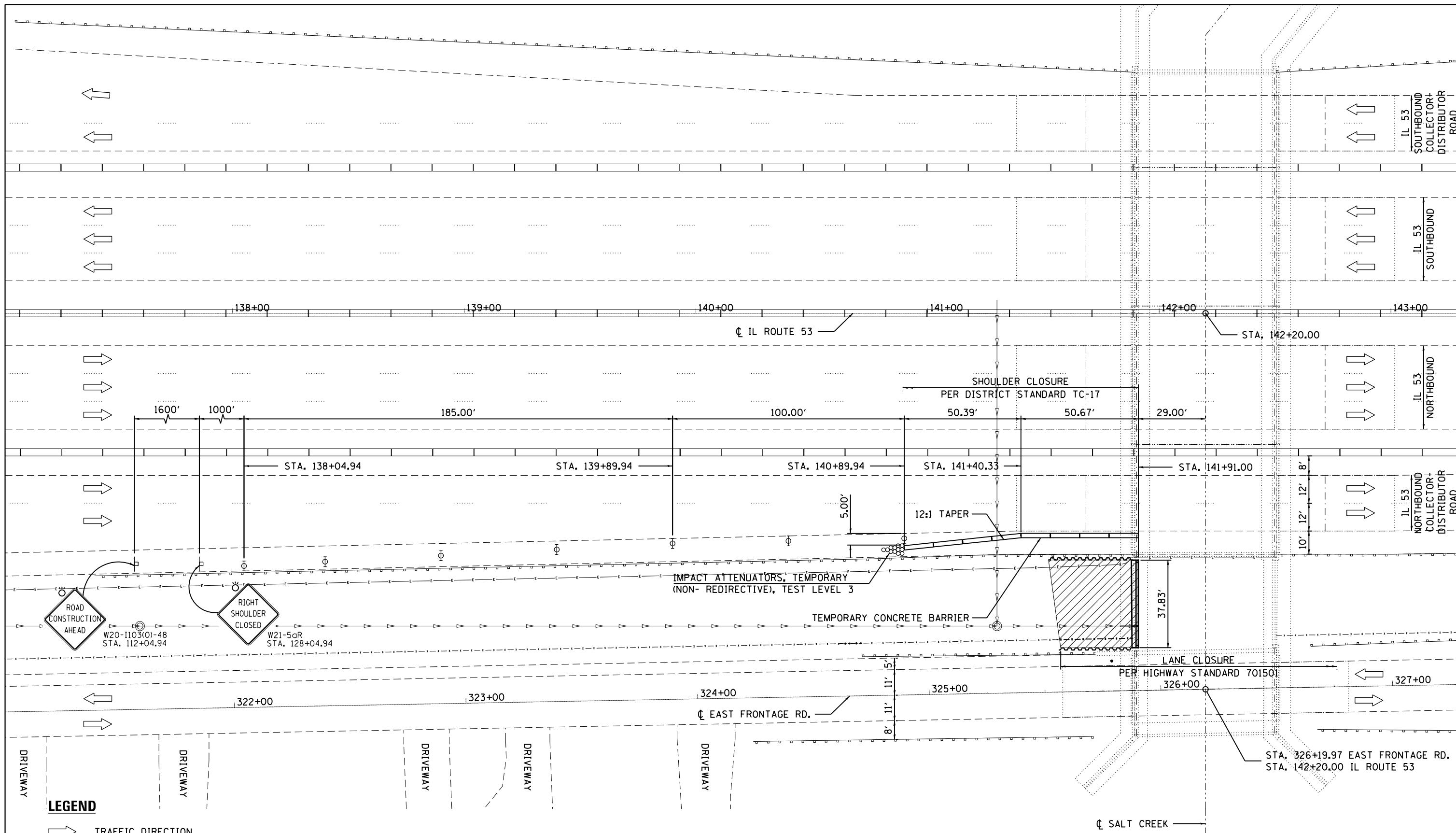
Rev

10/12/17  
10/12/17

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				100% STATE	
				URBAN	
				0014	
• 84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	1	1	
• 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	930	930	
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	130	130	
X6640304	CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED	FOOT	43	43	
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	LSUM	1	1	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	25.7	25.7	
• Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6	6	
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	40	40	

8 • SPECIALTY ITEMS





**PLAN**



**NOTE:**  
STATIONING MEASURED ALONG  $\text{CL}$  IL ROUTE 53



USER NAME = Kendrabant	DESIGNED - KJD, RTB	REVISED -
PLOT SCALE = 40:0.0000' / 1" =	DRAWN - KJD	REVISED -
PLOT DATE = 2/16/2017	CHECKED - RTB, JMG	REVISED -
	DATE - 02/01/2017	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

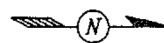
**MAINTENANCE OF TRAFFIC  
IL 53 OVER SALT CREEK**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2016-0551	COOK	21	5
CONTRACT NO. 62D37				
ILLINOIS FED. AID PROJECT				

INFORMATION ONLY

S.A. NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
432	*	COOK	35	08
TO STA.				
# 531 (1-2) RS-V(88)				



- NOTES
- EXISTING LIGHTING STANDARD SERVED FROM EXISTING CONTROLLER R. EXISTING CIRCUITING SHOWN IN PARENTHESIS (i.e. (A1,B1)) RE-CIRCUIT FOR SERVICE FROM NEW CONTROLLER R, AS INDICATED.
  - FOR CIRCUITING OF EXISTING LIGHTING STANDARDS, INCLUDING UNDERPASS LIGHTING, SEE ONE-LINE DIAGRAM (SHEET NO. 09).

Record Drawing  
 Contracting & Material Company  
 By Don Date 12-99

FOR ONE-LINE DIAGRAM OF EXISTING UNDERPASS AND ROADWAY LIGHTING SEE SHEET 9

NOTE 2

CONTROLLER "R"  
 TO COMED SERVICE

**ROADWAY & SIGN LUMINAIRE CIRCUIT (PHASE) CODING**

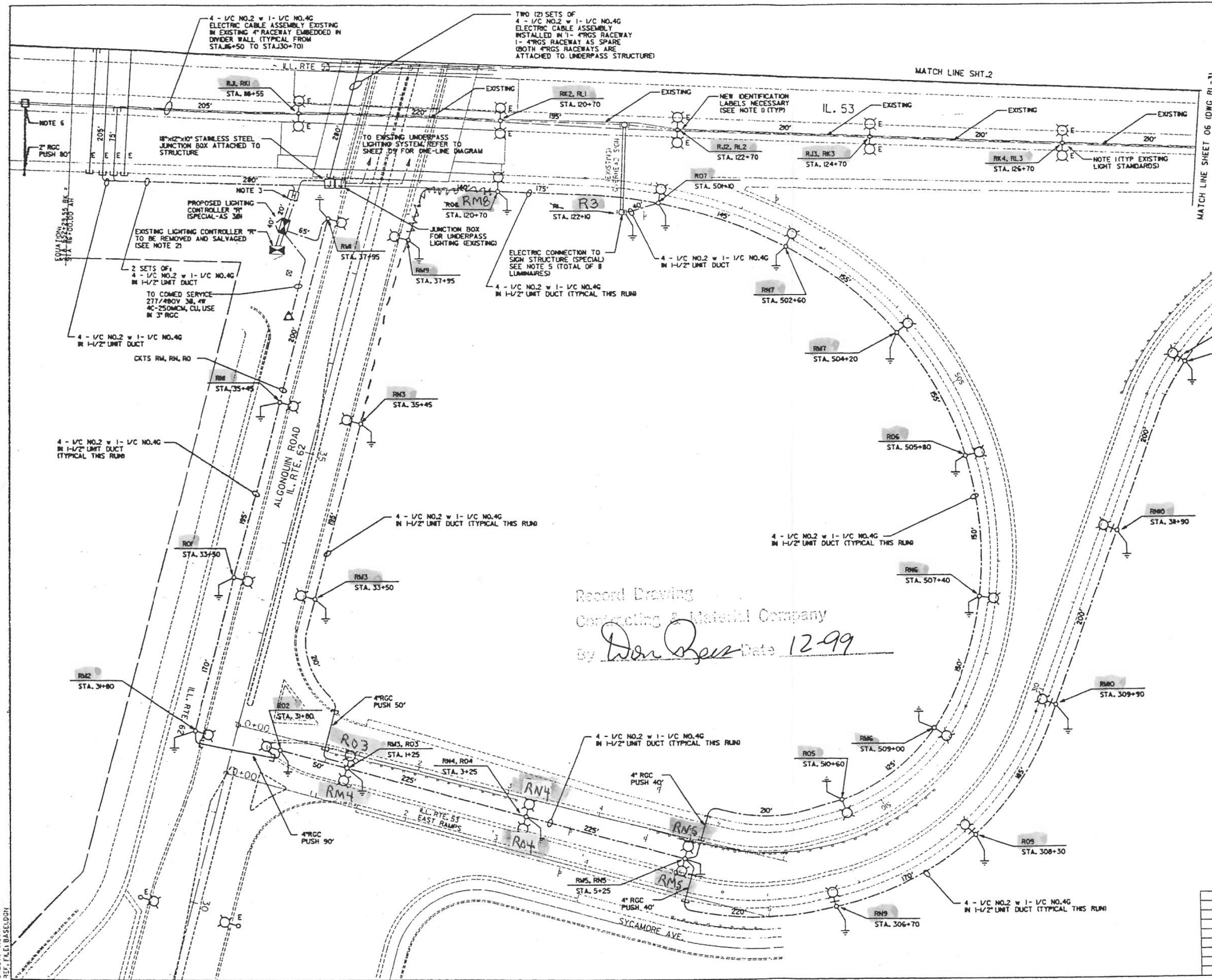
- CONNECTED TO RED PHASE
- CONNECTED TO BLACK PHASE
- ◐ CONNECTED TO BLUE PHASE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FAP RT. 432 (IL RT. 53) AT IL RT. 62  
 (ALGONQUIN ROAD) AND U.S. RT. 14  
 (NORTHWEST HIGHWAY)  
 INTERCHANGE LIGHTING  
 ALGONQUIN ROAD INTERCHANGE ONE LINE DIAGRAM  
 SCALE: VERT. N.T.S. DRAWN BY JWB  
 DATE 06-27-98 CHECKED BY MP

REVISIONS	
NAME	DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
432	*	COOK	35	04
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 5310-21 RS-K891				

INFORMATION ONLY



- NOTES:
- EXISTING LIGHTING STANDARDS SHOWN ARE TO BE RECURTED TO NEW CIRCUITS ORIGINATING FROM CONTROLLER 'R'. CONTRACTOR TO RELABEL, RELABELING OF EXISTING LIGHTING STANDARDS SHALL BE INCLUDED IN GENERAL ELECTRICAL WORK.
  - CONTRACTOR SHALL REMOVE EXISTING CONTROLLER 'R' AND RETURN TO 100% STOCK. EXISTING ROADWAY LIGHTING CIRCUITS A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z ARE TO BE TRANSFERRED TO NEW CONTROLLER 'R'. EXISTING ROADWAY AND UNDERPASS LIGHTING UNITS TO REMAIN IN SERVICE DURING NIGHT TIME HOURS DURING COURSE OF CONSTRUCTION.
  - HANDHOLE SHALL BE INSTALLED BY OTHERS PRIOR TO START OF CONSTRUCTION ON THIS PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR INTERCEPTING EXISTING CIRCUITS ORIGINATING FROM EXISTING CONTROLLER 'R' (AND ROUTED THROUGH HANDHOLE) AND ROUTING THESE EXISTING CIRCUITS TO NEW CONTROLLER 'R'. UNIT DUCTS FOR NEW CIRCUITS (RL1, RL2, RL3, RL4, RL5, RL6, RL7, RL8, RL9, RL10) ARE TO BE ROUTED THROUGH HANDHOLE. DUCT SHALL BE REMOVED FROM NEW UNIT DUCT PASSING THROUGH HANDHOLE TO PROVIDE DRAINAGE OF WATER OR CONDENSATION WITHIN UNIT DUCT AT HANDHOLE. CABLES SHALL BE CONTINUOUS WITHOUT SPLICES.
  - UNLESS OTHERWISE NOTED BY THE ENGINEER, LUMINAIRE SHELDS SHALL BE INSTALLED ON ALL LIGHTING UNITS THAT BACKUP TO FRONTAGE ROAD.
  - ELECTRICAL CONNECTION TO SIGN STRUCTURE (SPECIAL) SHALL INCLUDE TRANSFORMERS (QTY OF 2 EA) MOUNTED ON THE STRUCTURE INSIDE NEMA 4X ENCLOSURE FOR CONVERSION OF 277/480V TO 240/480V. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL MOUNTING AND SUPPORT CHANNELS, AS WELL AS ALL SIGN LUMINAIRES AS SHOWN ON DETAIL SHEETS 26 THRU 30.
  - PUSH 2\"/>

Record Drawing  
 Contracting & Material Company  
 by *Don Rees* Date 12-99

REVISIONS	
NAME	DATE

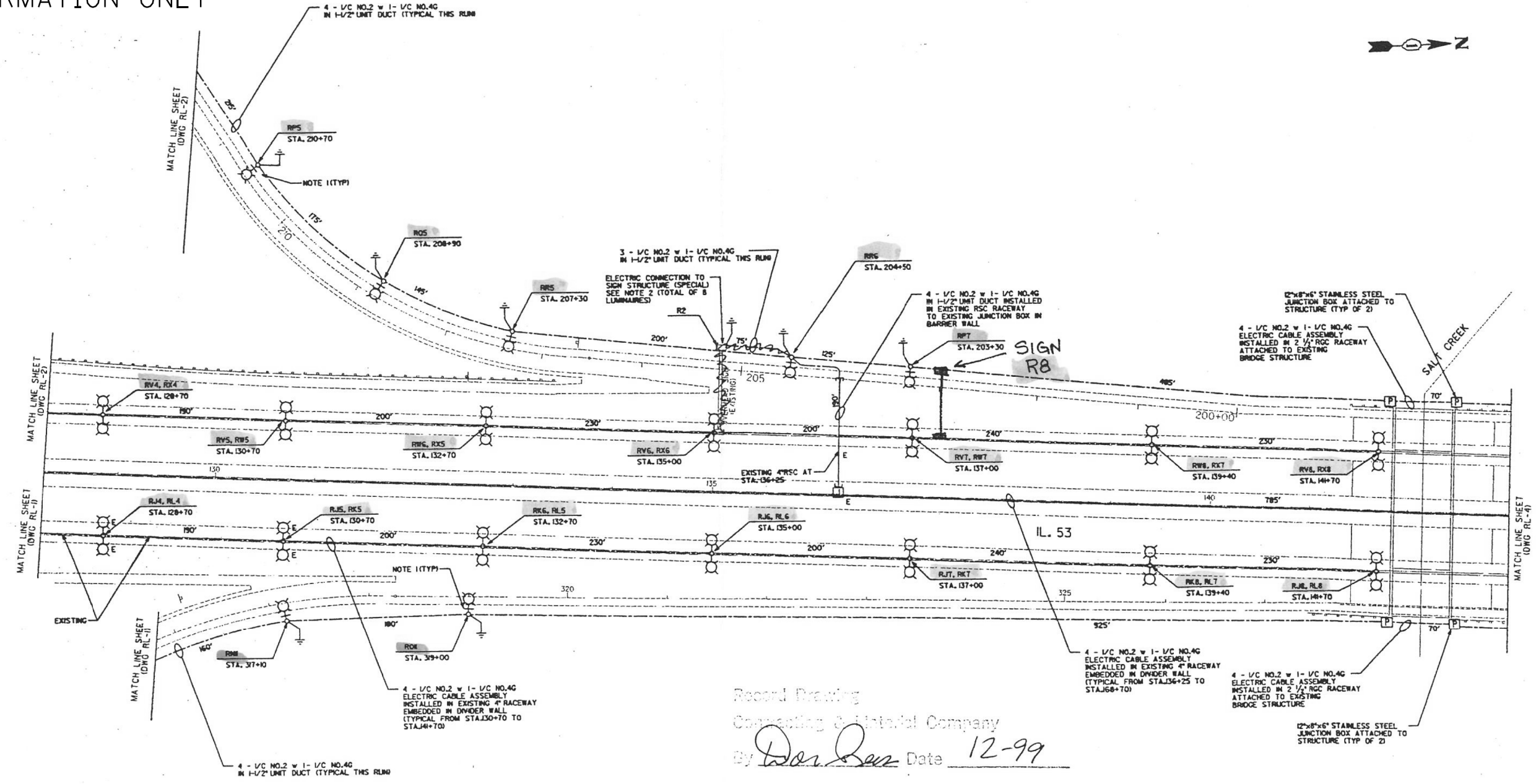
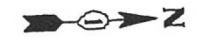
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FAP RT.432 (IL RT.53) AT IL RT.62  
 (ALGONQUIN ROAD) AND U.S. RT.14  
 (NORTHWEST HIGHWAY)  
 INTERCHANGE LIGHTING  
 ALGONQUIN ROAD INTERCHANGE SHT.1

SCALE: VERT. 1" = 50'  
 HORIZ. DATE 06-27-98

DRAWN BY BLJ  
 CHECKED BY MP

INFORMATION ONLY

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
432	*	COOK	35	06
STA.	TO STA.			
* 5310-2) R5-K89)				



Record Drawing  
 Consulting & Material Company  
 By *Don Sen* Date 12-99

- NOTES:
- UNLESS OTHERWISE NOTED BY THE ENGINEER, LUMINAIRE SHIELDS SHALL BE INSTALLED ON ALL LIGHTING UNITS THAT BACKUP TO FRONTAGE ROAD.
  - ELECTRICAL CONNECTION TO SIGN STRUCTURE (SPECIAL) SHALL INCLUDE TRANSFORMERS (QTY OF 2 EA) MOUNTED ON THE STRUCTURE INSIDE NEMA 4X ENCLOSURE FOR CONVERSION OF 277/480V TO 240V/480V. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL MOUNTING AND SUPPORT CHANNELS, AS WELL AS ALL SIGN LUMINAIRE AS SHOWN ON DETAIL SHEETS 26 THRU 30.

REVISIONS	
NAME	DATE

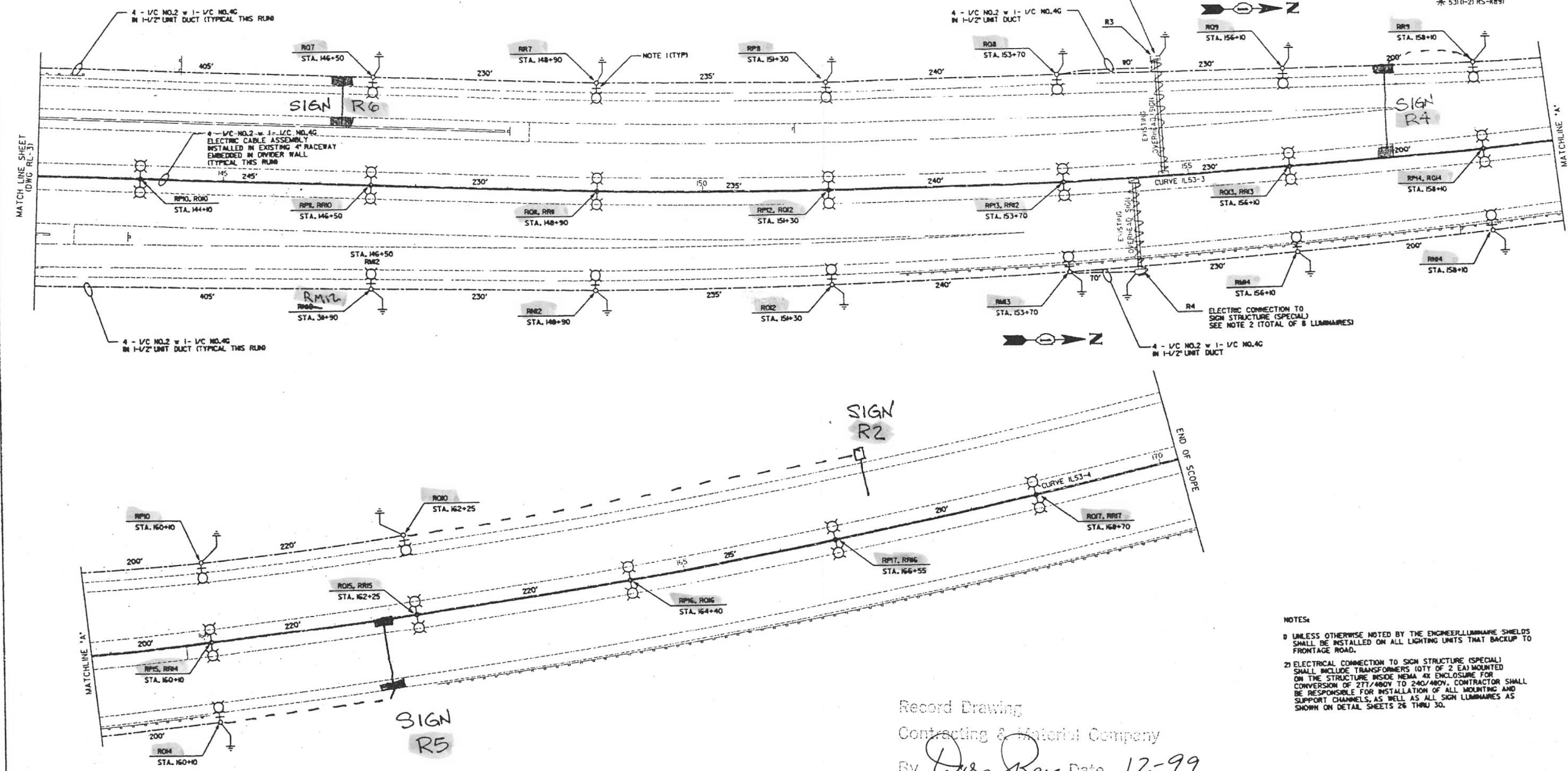
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FAP RT.432 (IL.RT.53) AT IL.RT.62  
 (ALGONQUIN ROAD) AND U.S.RT.14  
 (NORTHWEST HIGHWAY)  
 INTERCHANGE LIGHTING  
 ALGONQUIN ROAD INTERCHANGE SHT.3

SCALE: VERT. 1" = 50'  
 HORIZ. DATE 06-27-98

DRAWN BY BLJ  
 CHECKED BY MP

RL-3

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
432	*	COOK	35	07
STA.	TO STA.			
FPL 000 INT. 000	LINE	POL. 00 PROJECT		



NOTES:  
 1) UNLESS OTHERWISE NOTED BY THE ENGINEER, LUMINAIRE SHIELDS SHALL BE INSTALLED ON ALL LIGHTING UNITS THAT BACKUP TO FRONTAGE ROAD.  
 2) ELECTRICAL CONNECTION TO SIGN STRUCTURE (SPECIAL) SHALL INCLUDE TRANSFORMERS (01TY OF 2 EA) MOUNTED ON THE STRUCTURE INSIDE NEMA 4X ENCLOSURE FOR CONVERSION OF 277/480V TO 240/480V. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL MOUNTING AND SUPPORT CHANNELS, AS WELL AS ALL SIGN LUMINAIRES AS SHOWN ON DETAIL SHEETS 26 THRU 30.

Record Drawing  
 Contracting & Material Company  
 By *Dan Ross* Date 12-99

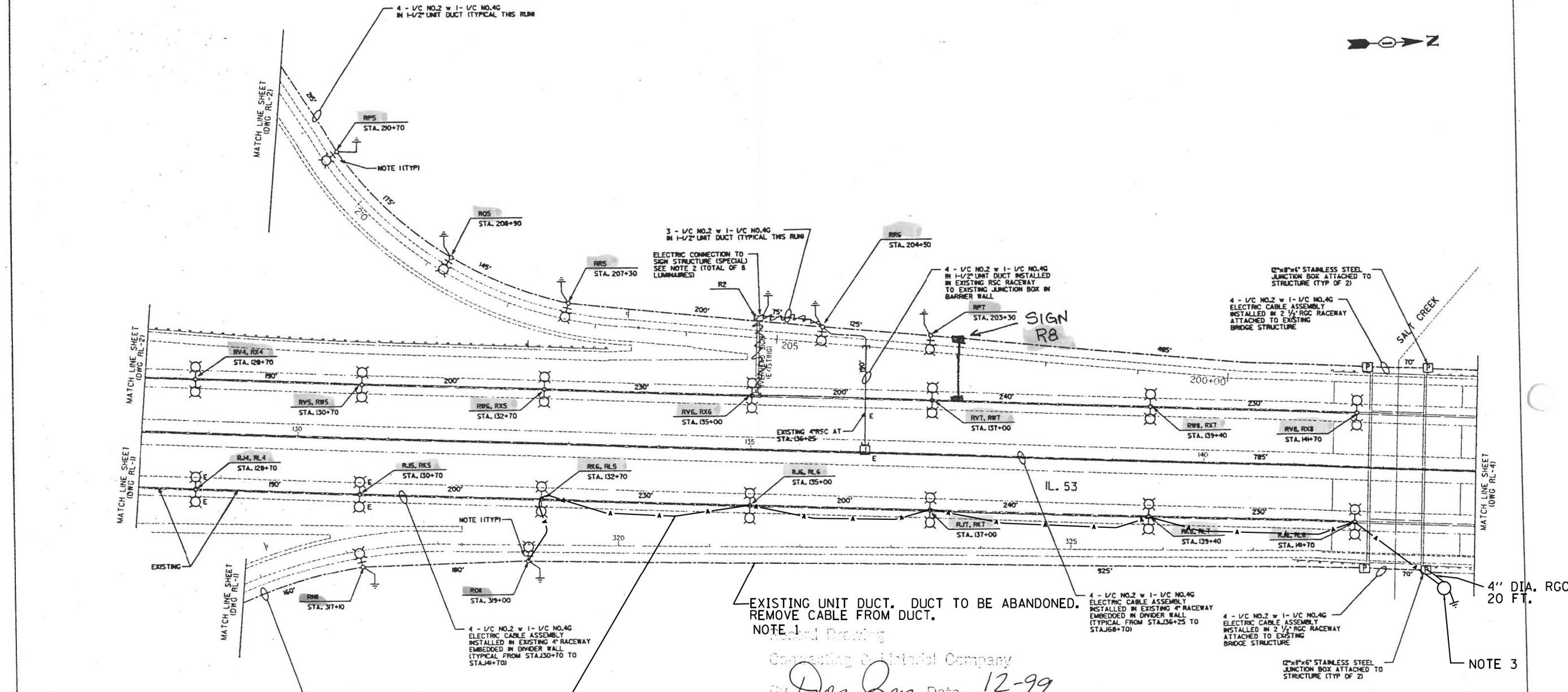
INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FAP RT.432 (IL.RT.53) AT IL.RT.62  
 (ALGONQUIN ROAD) AND U.S.RT.14  
 (NORTHWEST HIGHWAY)  
 INTERCHANGE LIGHTING  
 ALGONQUIN ROAD INTERCHANGE SHT.4  
 SCALE: VERT. 1" = 50'  
 HORIZ. 1" = 100'  
 DATE 06-27-98  
 DRAWN BY BLJ  
 CHECKED BY UP



SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
432	COOK	35	06
STA.	TO STA.		
* 5310-2) RS-K89)			



**NOTES - 62D37**

1. PROPOSED 62D37 WORK, SHOWN AS LARGER TEXT, IS SUPERIMPOSED ONTO EXISTING RECORD DRAWINGS.
2. ATTACH AND CONNECT AERIAL CABLES FROM EXISTING LIGHT POLE R011 TO POLES IN MEDIAN AND WOOD POLE NORTH OF SALT CREEK. INSTALL STAINLESS BANDING AND CLAMPS FOR AERIAL CABLE ATTACHMENTS.
3. INSTALL TEMPORARY WOOD POLE, 50 FT. AND RUN AERIAL CABLE TO JB AND SPLICE TO EXISTING CABLES. INSTALL 20 FT. OF 4" DIAMETER TEMPORARY RGC CONDUIT FROM WOOD POLE TO JB AND ATTACH TO GROUND, RUN AERIAL CABLE THRU THIS CONDUIT.
4. CONTRACTOR WILL ONLY BE MAINTAINING CIRCUITS "MNO".

INSTALL TEMPORARY AERIAL CABLE FOR CIRCUIT "MNO"  
 3-1/C #2 WITH MESSENGER WIRE, QUADRAPLEX  
 & 1-1/C #2 WITH MESSENGER WIRE, DUPLEX  
**NOTE 1**

EXISTING UNIT DUCT. DUCT TO BE ABANDONED.  
 REMOVE CABLE FROM DUCT.  
**NOTE 1**

Record Drawing  
 Consulting & Integral Company  
 By *Don Lee* Date 12-99

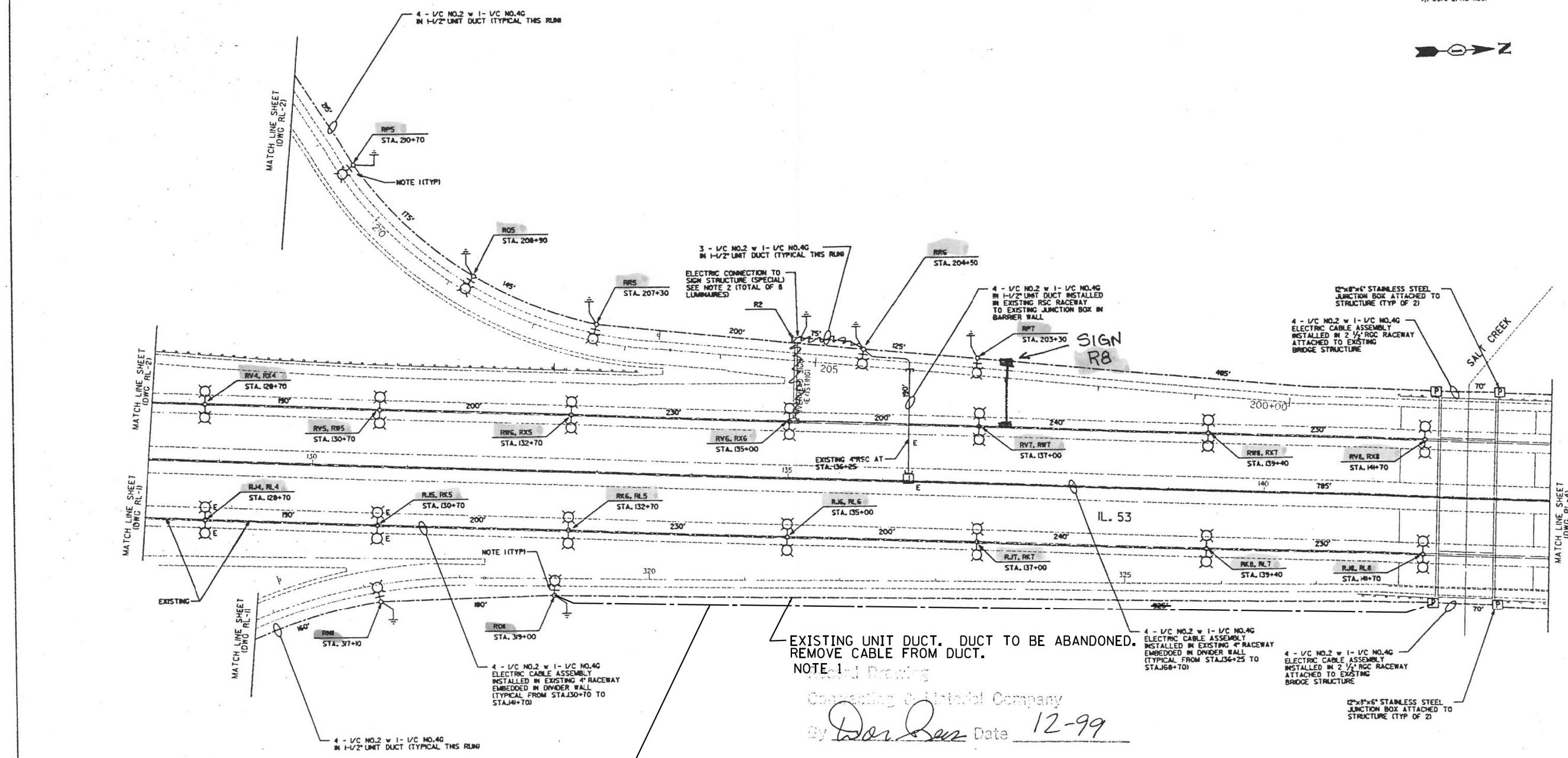
- NOTES:**
- 1) UNLESS OTHERWISE NOTED BY THE ENGINEER, LUMINAIRE SHIELDS SHALL BE INSTALLED ON ALL LIGHTING UNITS THAT BACKUP TO FRONTAGE ROAD.
  - 2) ELECTRICAL CONNECTION TO SIGN STRUCTURE (SPECIAL) SHALL INCLUDE TRANSFORMERS (0TY OF 2 EA) MOUNTED ON THE STRUCTURE INSIDE NEMA 4X ENCLOSURE FOR CONVERSION OF 277/480V TO 240/480V. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL MOUNTING AND SUPPORT CHANNELS, AS WELL AS ALL SIGN LUMINAIRES AS SHOWN ON DETAIL SHEETS 26 THRU 30.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FAP RT.432 (IL.RT.53) AT IL.RT.62  
 (ALGONQUIN ROAD) AND U.S.RT.14  
 (NORTHWEST HIGHWAY)  
 INTERCHANGE LIGHTING  
 ALGONQUIN ROAD INTERCHANGE SHT.3

SCALE: VERT. 1" = 50'  
 HORIZ. DATE 06-27-98  
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 CHECKED BY MP

SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
432	COOK	35	06
STA.	TO STA.		
* 5310-2) RS-X89)			



**NOTES - 62D37**

1. PROPOSED 62D37 WORK, SHOWN AS LARGER TEXT, IS SUPERIMPOSED ONTO EXISTING RECORD DRAWINGS.
2. LIGHTING CONTROLLER L1525 - "R". SYSTEM VOLTAGE: 277/480V, THREE PHASE, 4 WIRE LUMINAIRE OPERATING VOLTAGE: 277V LINE TO NEUTRAL

PROPOSED UNIT DUCT 2.0" DIAMETER  
4-1/2" NO. 2 & 1-1/2" NO. 4 GROUND  
CIRCUIT "MNO"  
NOTE 1

EXISTING UNIT DUCT. DUCT TO BE ABANDONED.  
REMOVE CABLE FROM DUCT.  
NOTE 1

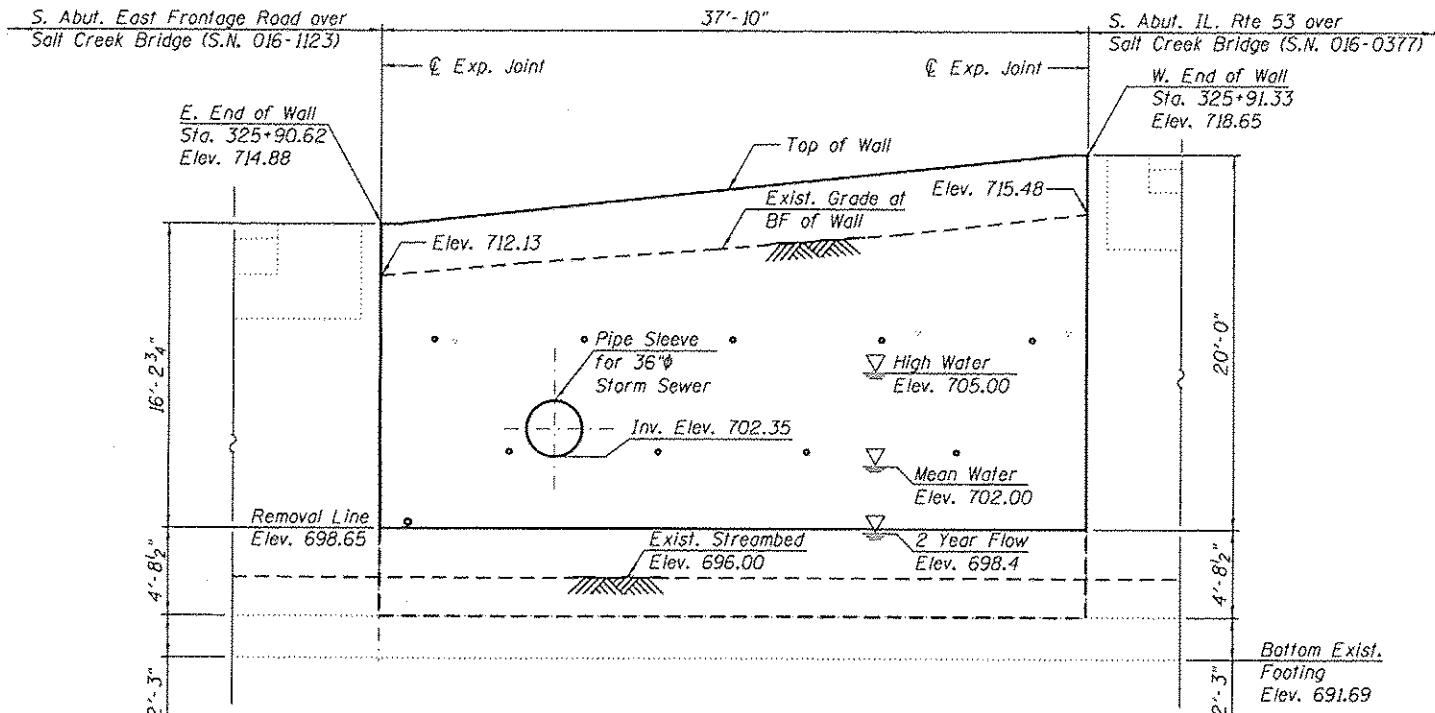
By *Don Sen* Date *12-99*

- NOTES:
- 1) UNLESS OTHERWISE NOTED BY THE ENGINEER, LUMINAIRE SHIELDS SHALL BE INSTALLED ON ALL LIGHTING UNITS THAT BACKUP TO FRONTAGE ROAD.
  - 2) ELECTRICAL CONNECTION TO SIGN STRUCTURE (SPECIAL) SHALL INCLUDE TRANSFORMERS (QTY OF 2 EA) MOUNTED ON THE STRUCTURE INSIDE NEMA 4X ENCLOSURE FOR CONVERSION OF 277/480V TO 240/480V. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL MOUNTING AND SUPPORT CHANNELS, AS WELL AS ALL SIGN LUMINAIRES AS SHOWN ON DETAIL SHEETS 26 THRU 30.

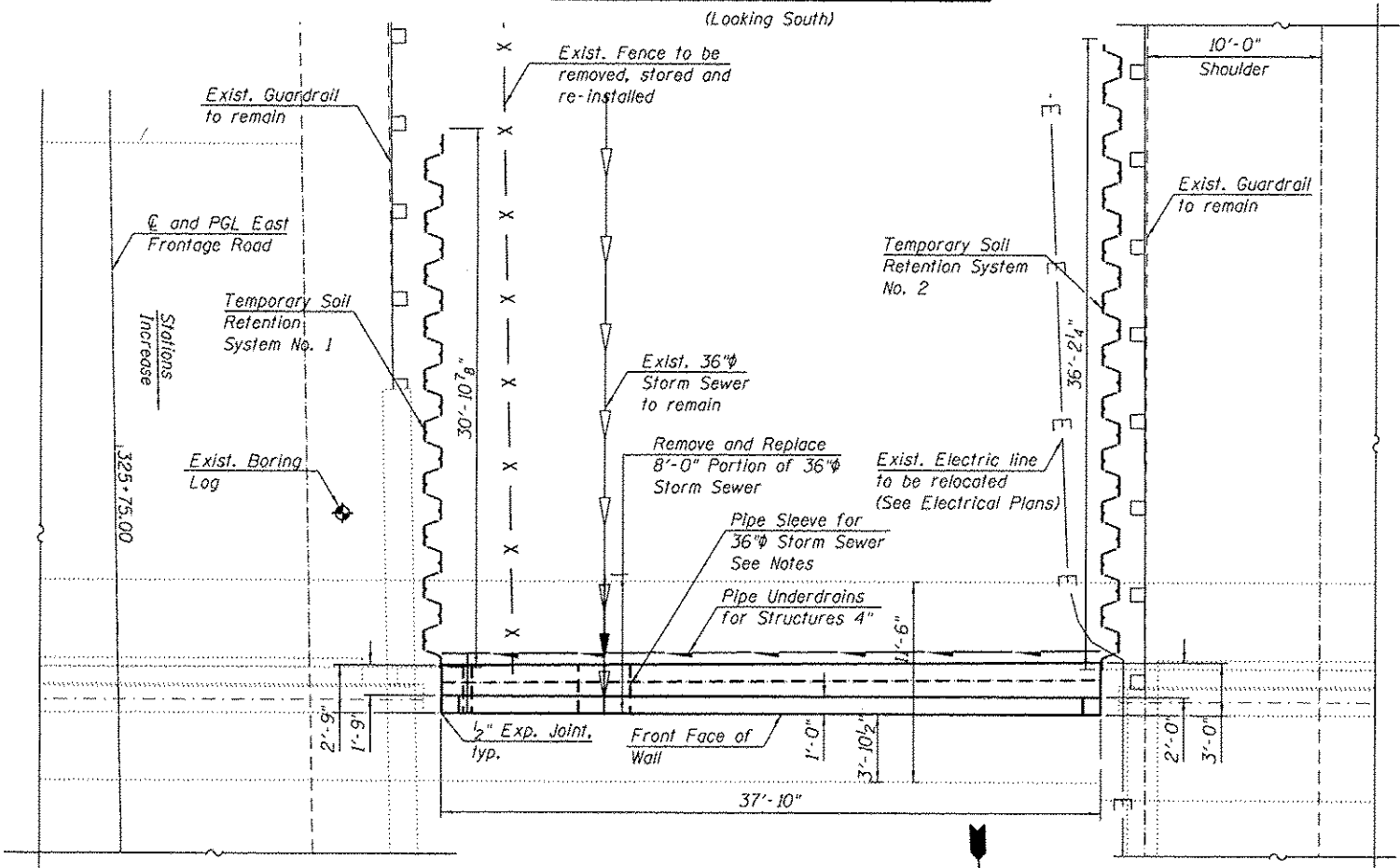
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAP RT.432 (IL.RT.53) AT IL.RT.62  
(ALGONQUIN ROAD) AND U.S.RT.14  
(NORTHWEST HIGHWAY)  
INTERCHANGE LIGHTING  
ALGONQUIN ROAD INTERCHANGE SHT.3  
SCALE: VERT. 1" = 50'  
HORZ. DATE 06-27-98  
DRAWN BY BLJ  
CHECKED BY MP

RL-3



**SOUTHEAST WINGWALL ELEVATION**  
(Looking South)



**SOUTHEAST WINGWALL PLAN**

**GENERAL NOTES:**

- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Reinforcement bars designated (E) shall be epoxy coated.
- It shall be the responsibility of the contractor to divert the stream flow during construction in order to keep the construction area free of water. The method of the water diversion shall be subjected to the approval of the Engineer and the cost shall be included with the cost of Concrete Structures.
- Existing Storm Sewer to be supported during wall repairs. Method of support to be approved by the Engineer. Cost of supporting existing storm sewer shall not be paid separately and shall be included with Structure Excavation.
- The contractor shall take precautions to protect the existing 36" storm sewer, existing conduit and adjacent structures during removal/reconstruction of the wingwall. Any damage done during construction shall be repaired by the contractor at his expense at no charge to IDOT.
- Existing elevations have been taken from historical plans.
- The required steel sleeve  $\phi$  and wall thickness shall be determined by the contractor prior to constructing the wall.
- For Structure Excavation details, See Sheet S-3
- For Temporary Soil Retention System and Backfill Details, See Sheet S-4
- The contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge, structure excavation, installation of Temporary Soil Retention System and other loads applied will not have detrimental effects on the adjacent abutments and roadway. Any damage to the adjacent abutments or roadway during construction shall be repaired by the contractor at his expense at no charge to IDOT.
- Removal of the portion of the failed wall that has fallen into Salt Creek shall be removed and shall not be paid for separately and shall be included in Concrete Removal.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL QUANTITY
CONCRETE REMOVAL	CU YD	45
STRUCTURE EXCAVATION	CU YD	94
CONCRETE STRUCTURES	CU YD	47.7
PROTECTIVE COAT	SQ YD	94
REINFORCEMENT BARS, EPOXY COATED	POUND	8,670
TEMPORARY SOIL RETENTION SYSTEM	SQ FT	785
GEOCOMPOSITE WALL DRAIN	SQ YD	75
GRANULAR BACKFILL FOR STRUCTURES	CU YD	130
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	40

**SCOPE OF WORK:**

- Install Temporary Soil Retention Systems No. 1 and No. 2
- Excavate behind the existing wingwall and support Exist. 36" Storm Sewer
- Remove Existing Concrete Wingwall above Elevation 698.65
- Construct New Concrete Wingwall and Backfill
- Apply Protective Coat

**DESIGN SPECIFICATIONS**

AASHTO Standard Specifications for Highway Bridges, 17th Edition, 2002

**DESIGN STRESSES**

**FIELD UNITS (Existing)**  
 $f'_c = 2,500$  psi  
 $f_y = 40,000$  psi

**FIELD UNITS (Proposed)**  
 $f'_c = 3,500$  psi  
 $f_y = 60,000$  psi

**INDEX OF SHEETS**

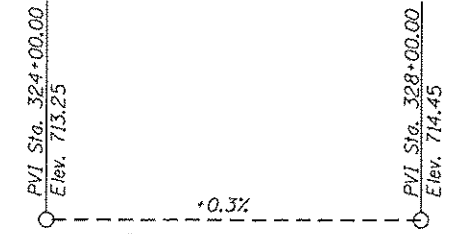
- S-1 General Plan and Elevation
- S-2 Wingwall Plan and Elevation
- S-3 Concrete Removal and Structure Excavation Details
- S-4 Temporary Soil Retention System and Backfill Details
- S-5 Boring Log (Sheet 1 of 2)
- S-6 Boring Log (Sheet 2 of 2)

**LEGEND**

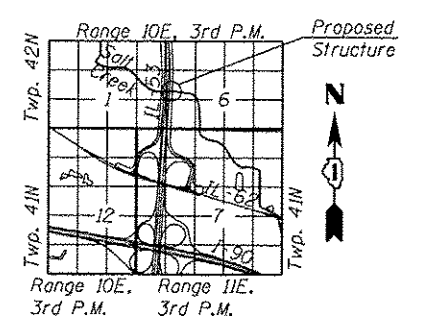
- X — Exist. Fence
- Exist. Storm Sewer
- Exist. Guardrail
- ◆ Exist. Boring Log
- Prop. Temporary Soil Retention System
- E — Exist Electric Line
- Prop. Storm Sewer



Signed *Moussa A. Issa*  
 Dr. Moussa A. Issa, S.E.  
 Il. Lic. No. 081-005738  
 Expires 11-30-2018  
 Date 02/16/2017



**PROFILE GRADE**  
East Frontage Road



**LOCATION SKETCH**

**GENERAL PLAN & ELEVATION  
IL 53 WINGWALL ALONG SALT CREEK**

**SECTION 2016-0551**

**COOK COUNTY**

**STA. 325+95.27**

**STRUCTURE NO. 016-0377**



S-1 GPE.dgn	DESIGNED - KJD, LAB	REVISED -
USER NAME = Ken.drobent	DRAWN - KJD, MAA	REVISED -
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PLOT DATE = 2/15/2017	DATE - 02/01/2017	REVISED -

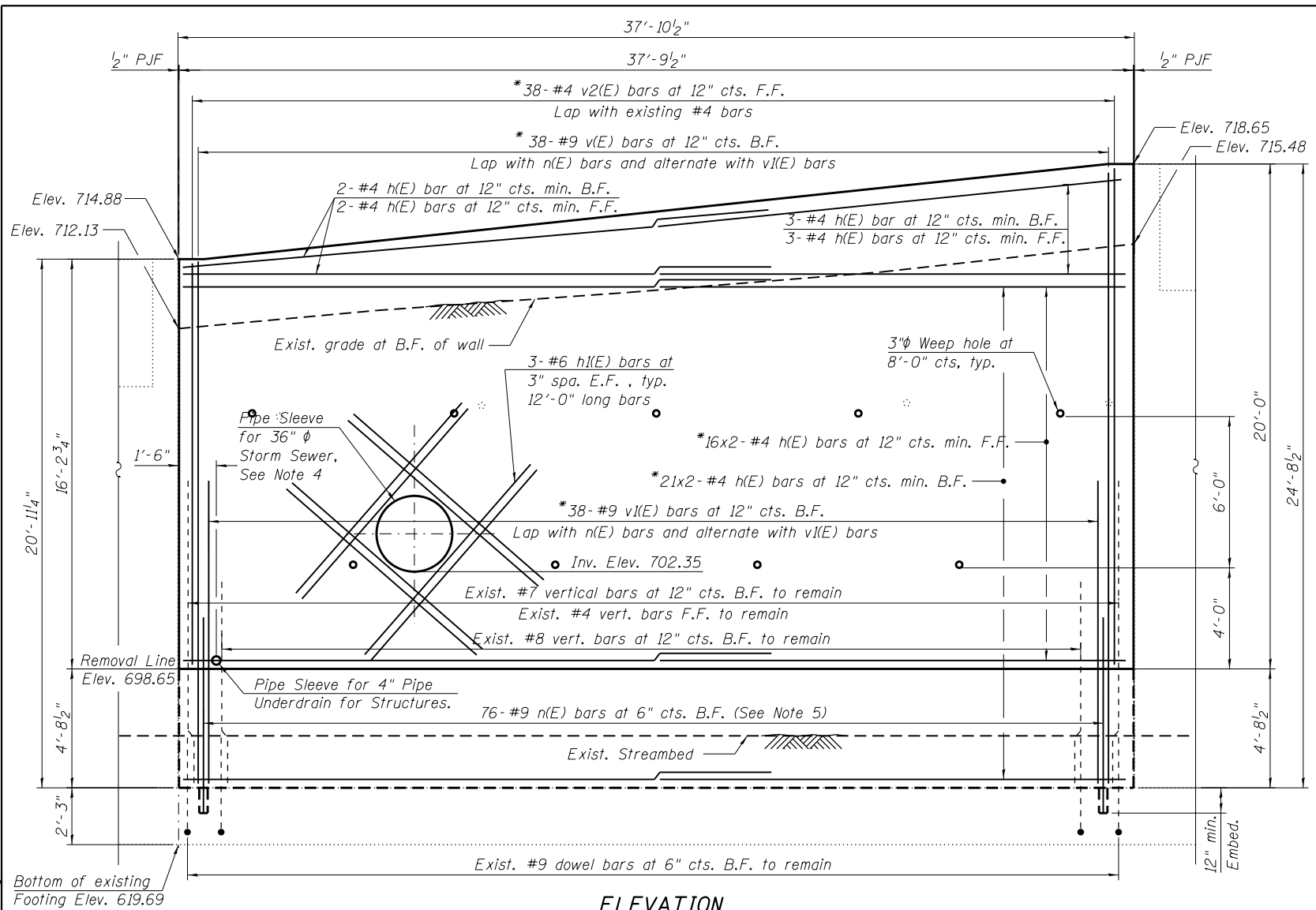
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION  
IL 53 OVER SALT CREEK (SN 016-0377)**

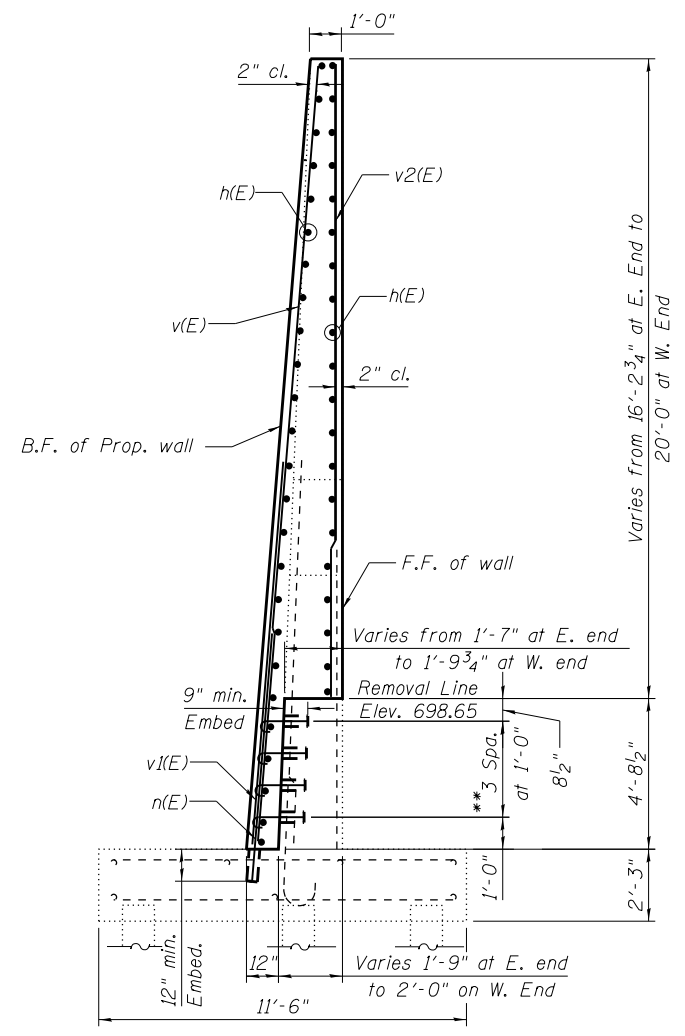
SHEET S-1 OF 6 SHEETS

F.A.P. RTE. 342	SECTION 2016-0551	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 12
CONTRACT NO. 62D37				
ILLINOIS FED. AID PROJECT				





**ELEVATION**



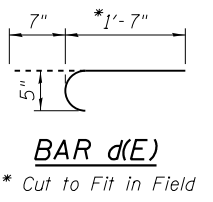
**SECTION A-A**

**BILL OF MATERIAL**

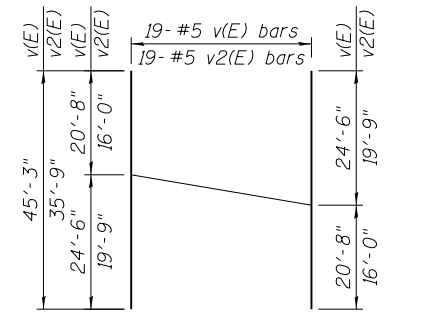
Bar	No.	Size	Length	Shape
d(E)	76	#5	2'-2"	
h(E)	84	#4	20'-6"	—
h2(E)	24	#6	12'-0"	—
v(E)	19	#9	45'-3"	—
v2(E)	39	#9	14'-0"	—
v2(E)	19	#4	35'-9"	—
n(E)	76	#9	7'-3"	—
Concrete Structures			CU YD	47.7
Protective Coat			SQ YD	94
Reinforcement Bars, Epoxy Coated			POUND	8,670

**Minimum Bar Laps**

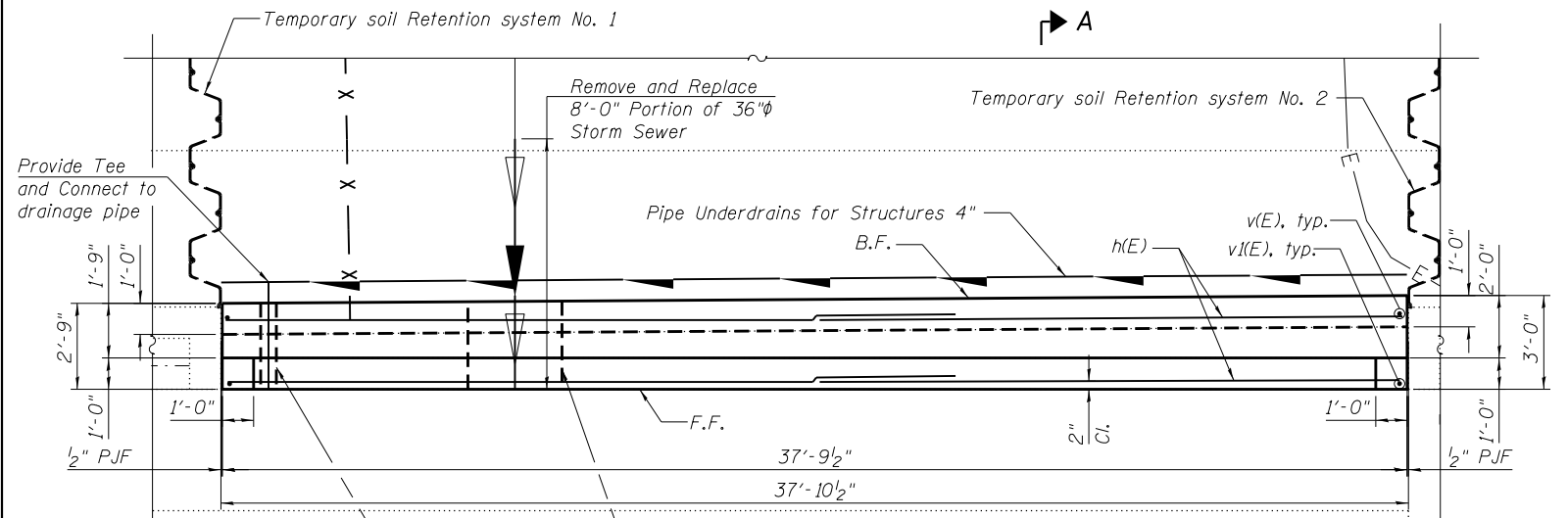
Bar	Lap
#4	2'-7"
#5	3'-2"
#7	4'-5"
#8	5'-1"
#9	6'-3"



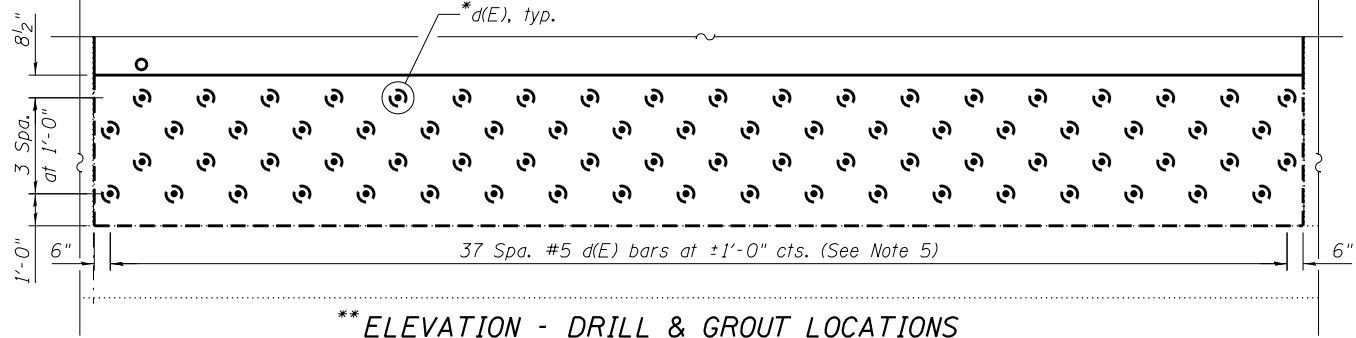
**BAR d(E)**  
\* Cut to Fit in Field



**BAR CUTTING DIAGRAM**



**PLAN**



**ELEVATION - DRILL & GROUT LOCATIONS**

**NOTES:**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Bars indicated thus 16x2-#5 etc. indicates 16 lines of bars with 2 lengths per line.
3. For proposed Temporary Soil Retention System No. 1 and 2, See Sheet S-4.
4. The required sleeve φ and wall thickness shall be determined by the contractor prior to constructing the wall. Cost of Sleeve shall be included with Concrete Structures.
5. Epoxy grout d(E) and n(E) bars according to Section 584 of the Standard Specifications. Drill to miss existing reinforcement. Cost included with Concrete Structures.

**LEGEND**

B.F. - Back Face  
F.F. - Front Face

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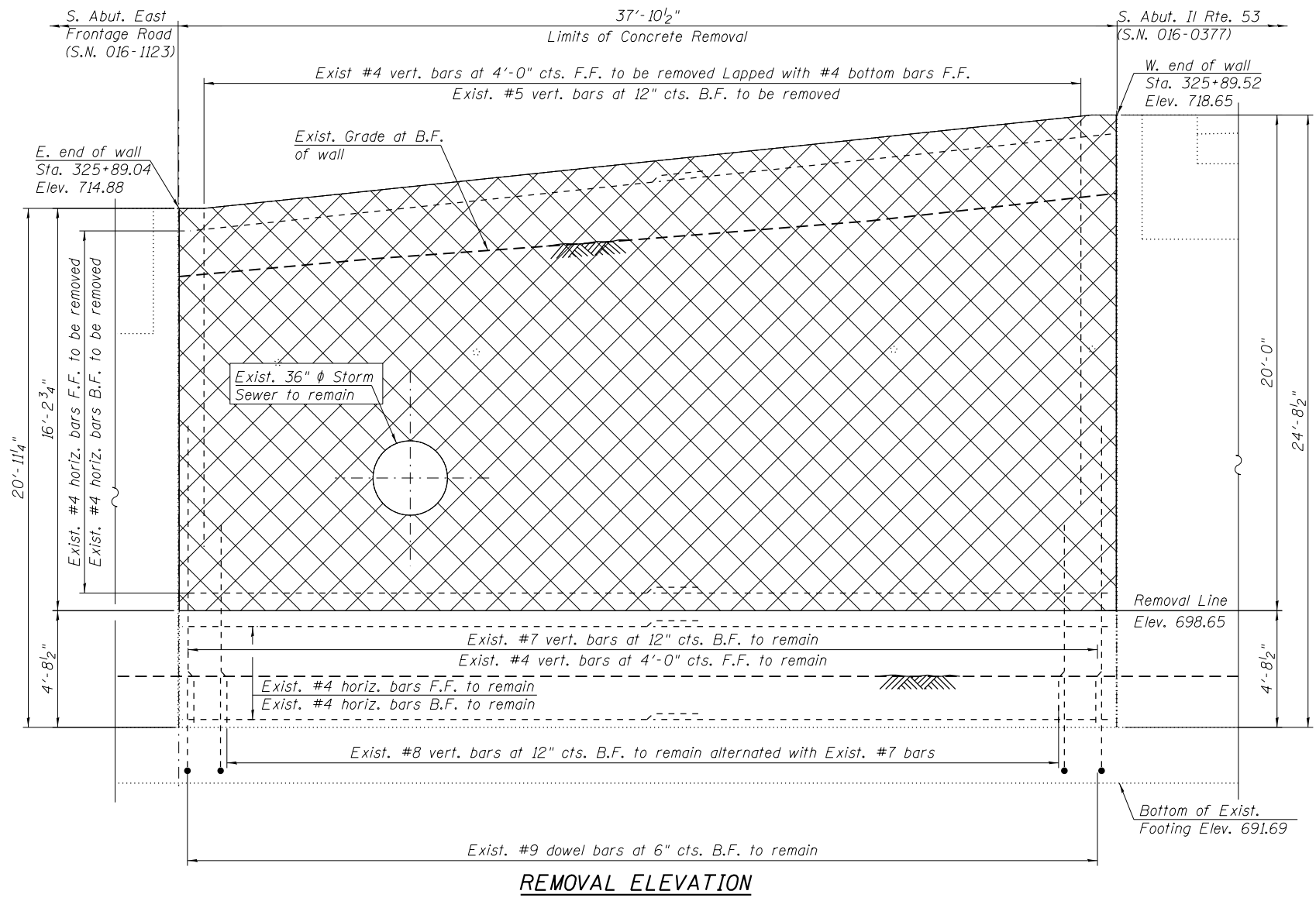
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PLOT DATE = 2/16/2017

DESIGNED - KJD, LAB  
DRAWN - KJD, MAA  
CHECKED - MI, MAI  
DATE - 02/01/2017

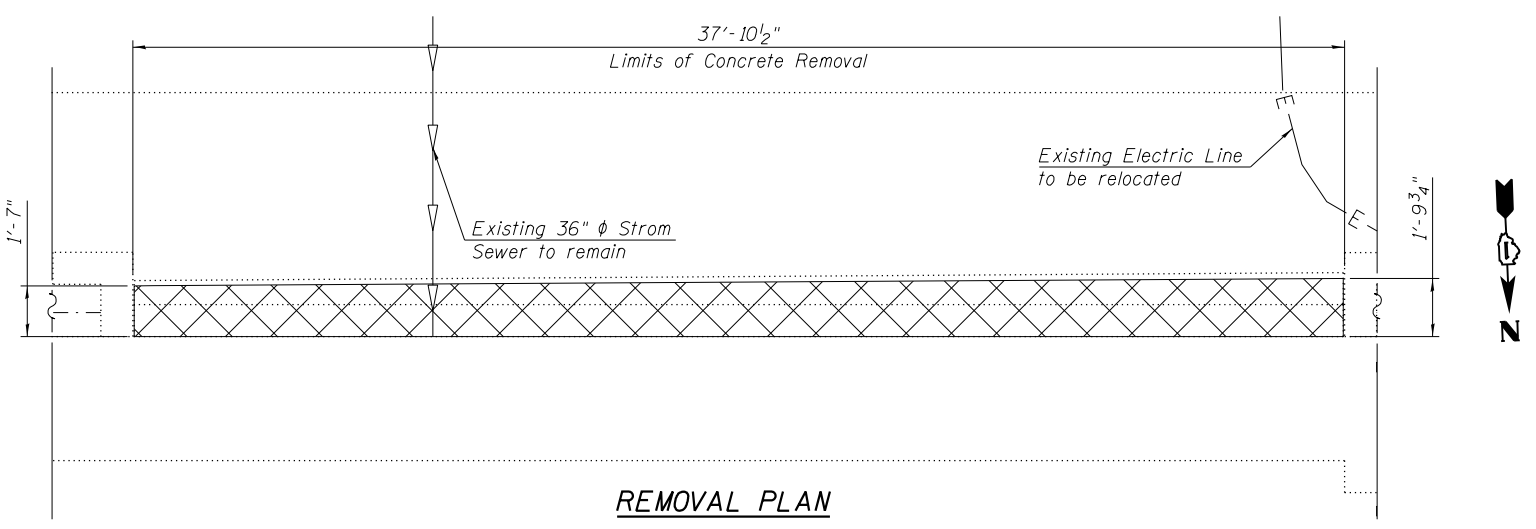
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN, ELEVATION AND DETAILS  
IL 53 OVER SALT CREEK (SN 016-0377)  
SHEET S-2 OF 6 SHEETS

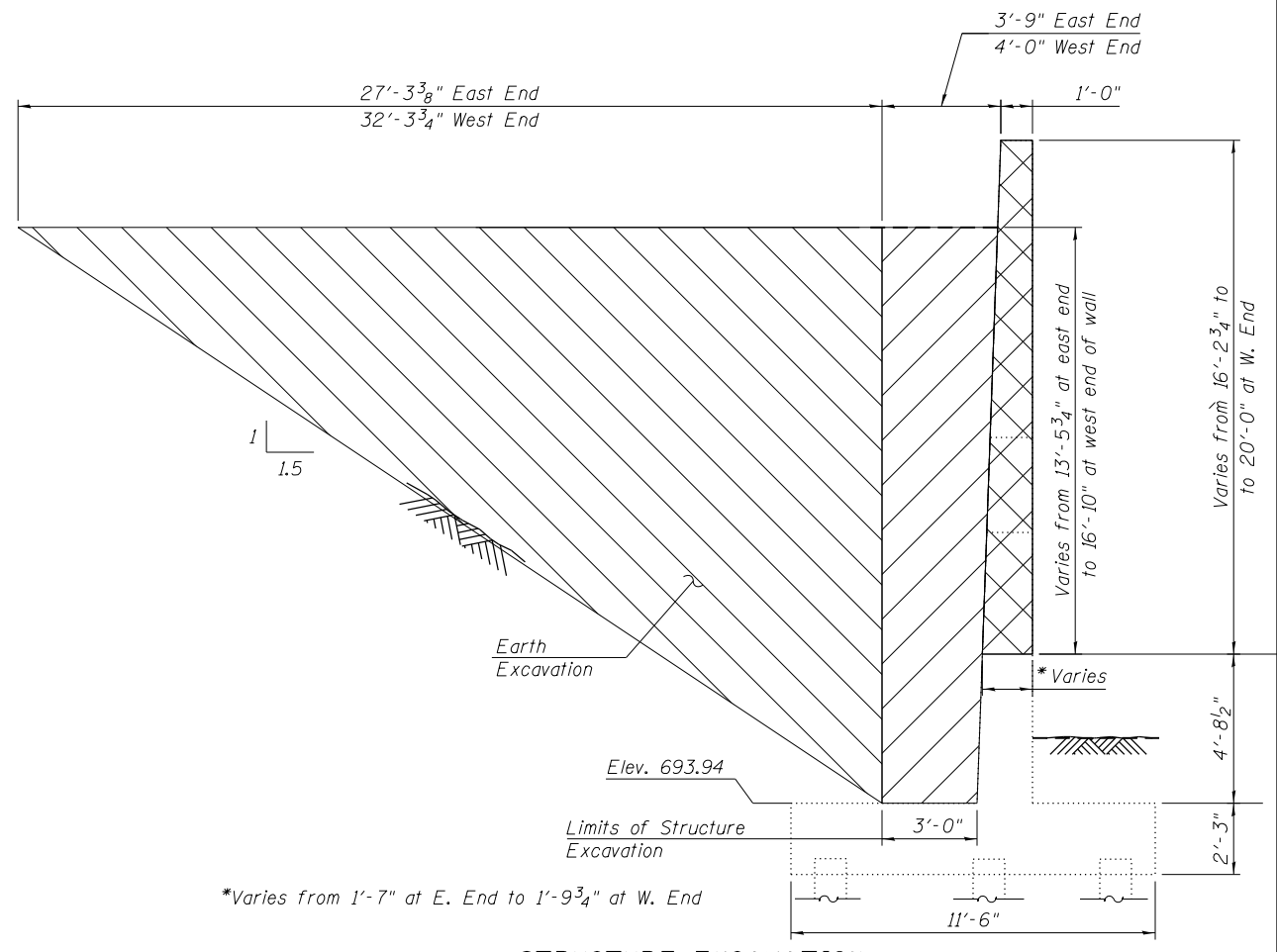
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2016-055I	COOK	21	13
CONTRACT NO. 62D37				
ILLINOIS FED. AID PROJECT				



**REMOVAL ELEVATION**



**REMOVAL PLAN**



**STRUCTURE EXCAVATION**

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Concrete Removal	CU YD	45
Structure Excavation	CU YD	94

**NOTE**

- Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with concrete removal.
- Removal of the portion of the failed wall that has fallen into Salt Creek shall be removed and shall not be paid for separately and shall be included in Concrete Removal.

**LEGEND**

- Concrete Removal
- Structure Excavation
- Earth Excavation
- B.F. - Back Face
- F.F. - Front Face
- Exist. Storm Sewer
- Exist. Electric Line

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S-3 Removal.dgn  
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DESIGNED - KJD, LAB  
 DRAWN - KJD, MAA  
 CHECKED - MI, MAI  
 DATE - 02/01/2017

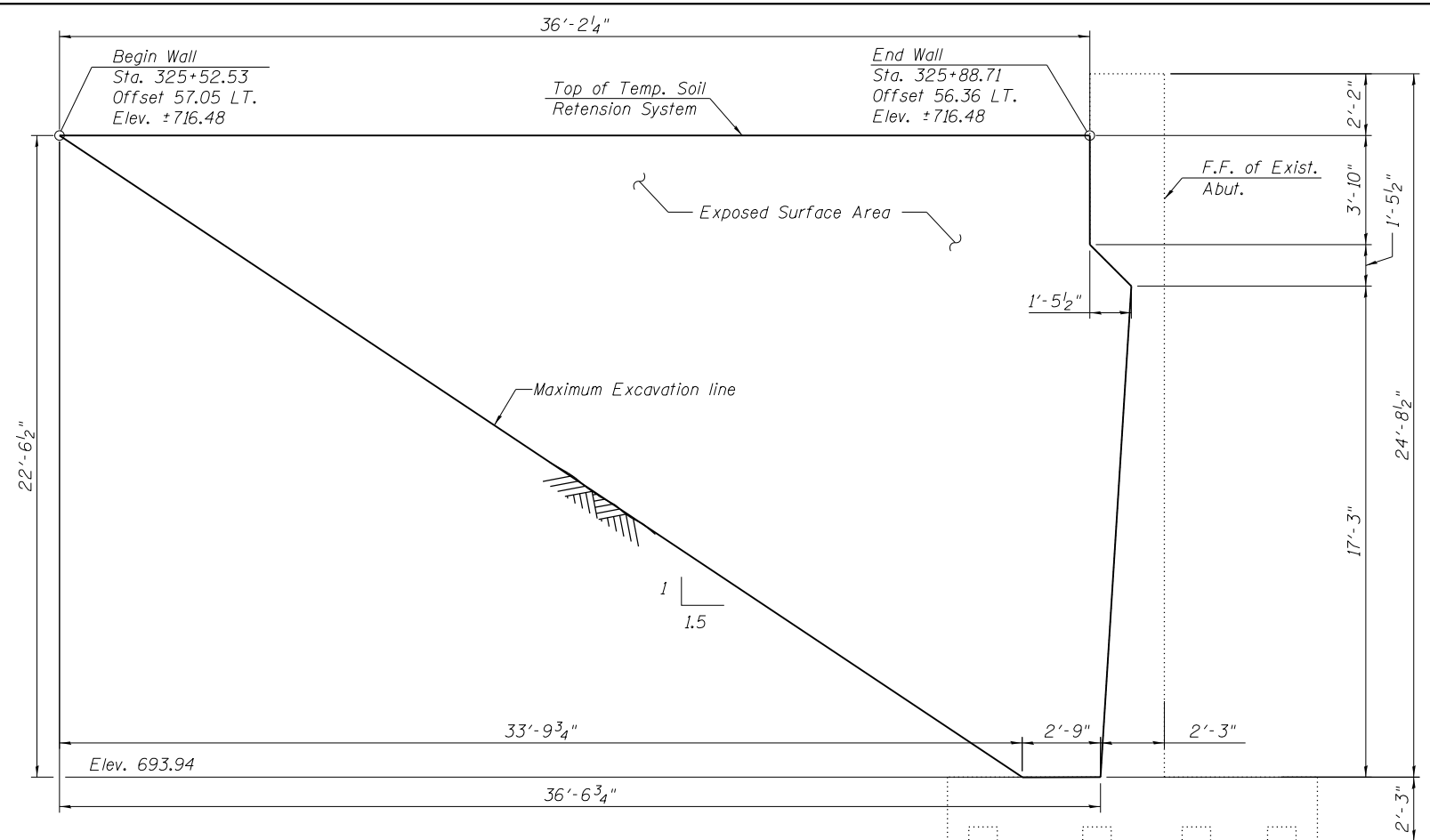
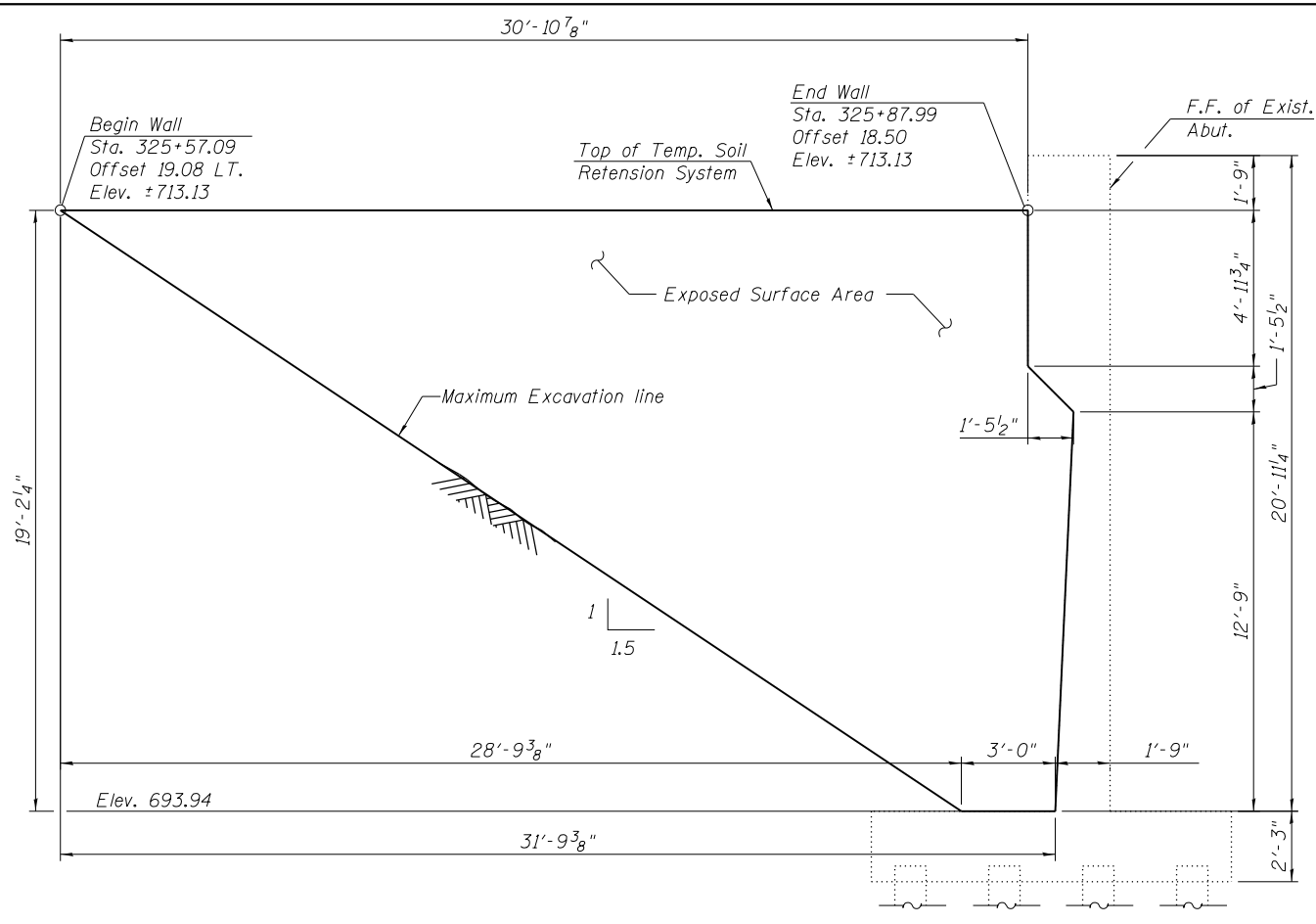
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CONCRETE REMOVAL AND STRUCTURE EXCAVATION DETAILS  
 IL 53 OVER SALT CREEK (SN 016-0377)

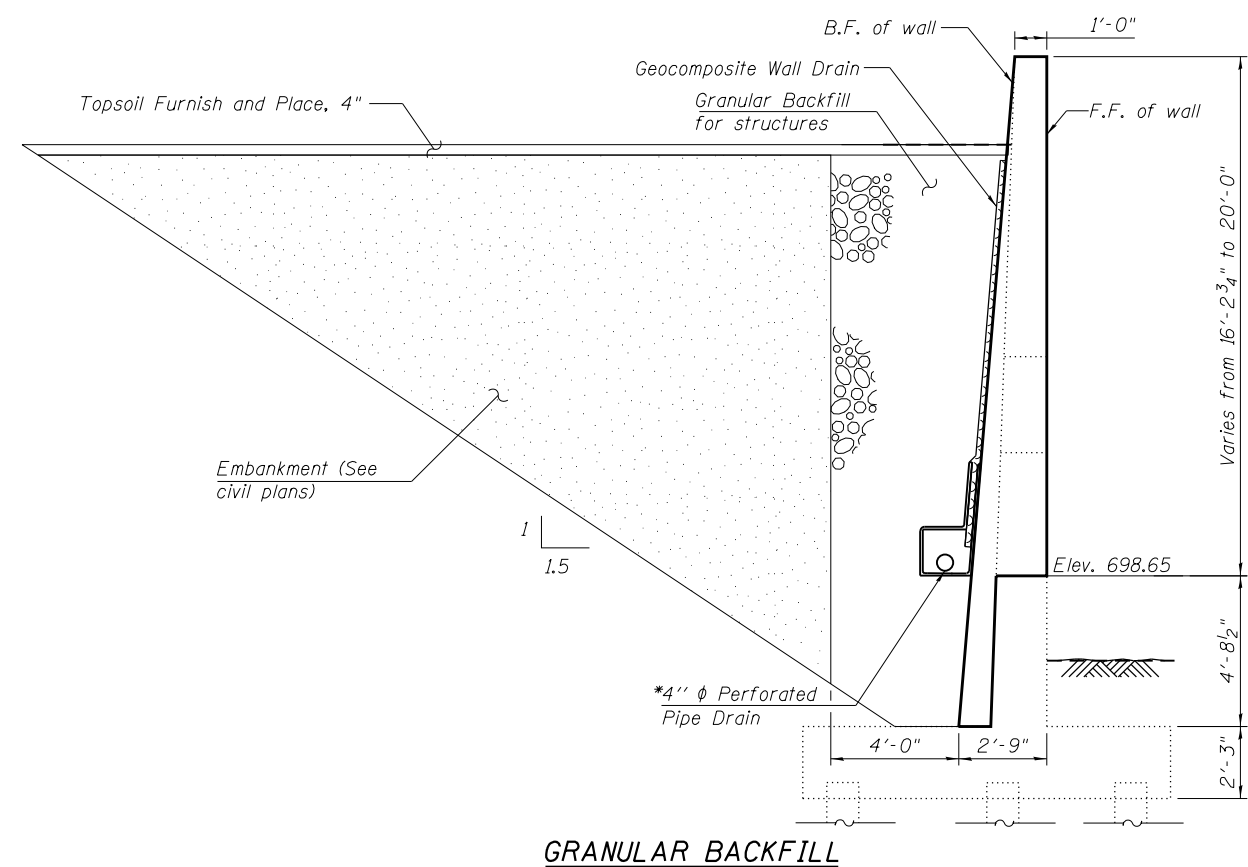
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2016-055I	COOK	21	14
CONTRACT NO. 62D37				

SHEETS-3 OF 6 SHEETS

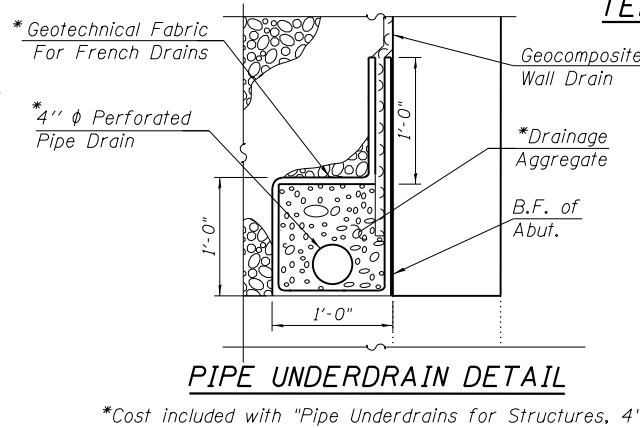
ILLINOIS FED. AID PROJECT



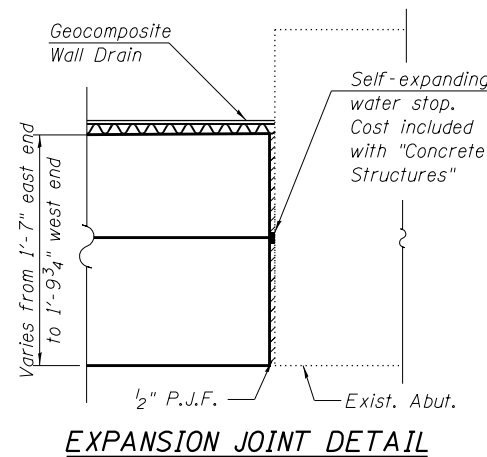
**TEMPORARY SOIL RETENTION SYSTEM NO.1**



**GRANULAR BACKFILL**

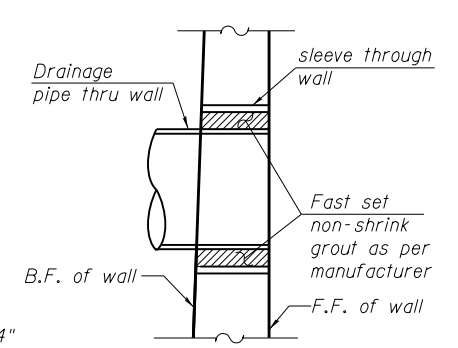


**PIPE UNDERDRAIN DETAIL**

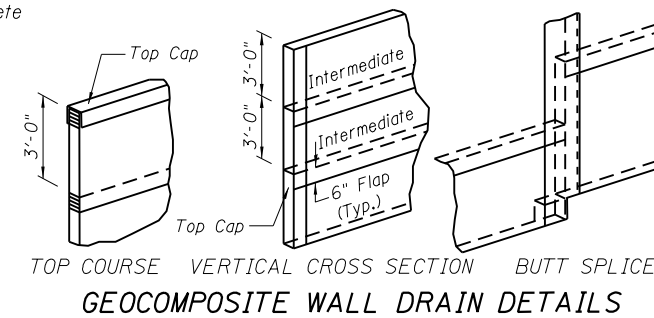


**EXPANSION JOINT DETAIL**

**TEMPORARY SOIL RETENTION SYSTEM NO.2**



**SLEEVE THRU WALL DETAIL**



**GEOCOMPOSITE WALL DRAIN DETAILS**

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Temporary Soil Retention System	SQ FT	785
Geocomposite Wall Drain	SQ YD	75
Granular Backfill for Structures	CU YD	130
Pipe Underdrains For Structures 4"	FOOT	40

**NOTES**

1. A cantilevered sheet piling design does not appear to be feasible and additional members of other retention systems may be necessary. The contractor shall submit a soil retention system design including plan details and calculations for review and acceptance by the Engineer.
2. The contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge, structure excavation, installation of Temporary Soil Retention System and other loads applied will not have detrimental effects on the adjacent abutments and roadway. Any damage to the adjacent abutments or roadway during construction shall be repaired by the contractor at his expense at no charge to IDOT.

**LEGEND**

- Embankment
- Granular Backfill for structures
- B.F. - Back Face
- F.F. - Front Face

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S-4 TSRS.dgn  
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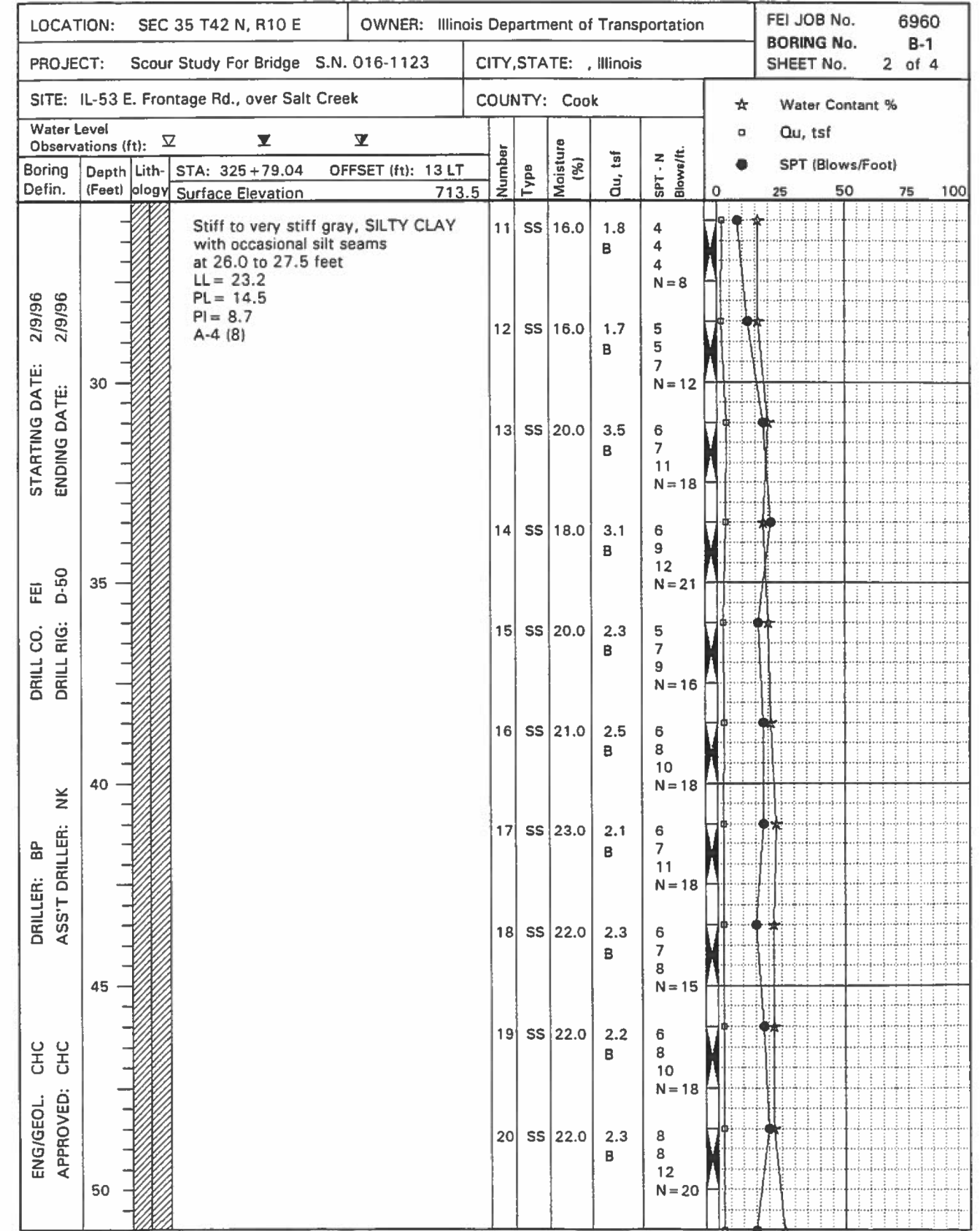
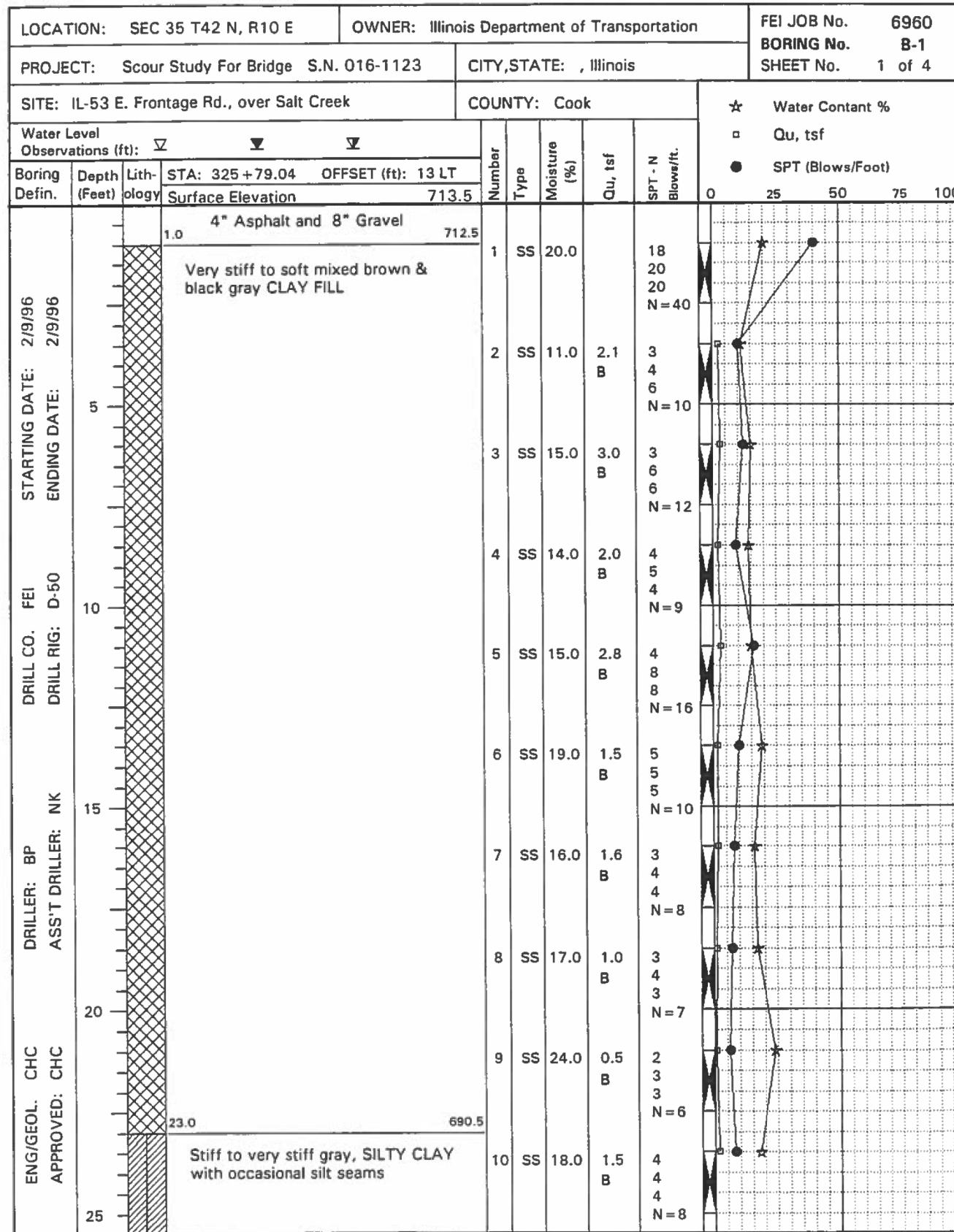
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 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION SYSTEM AND BACKFILL  
 IL 53 OVER SALT CREEK (SN 016-0377)

SHEETS-4 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2016-055I	COOK	21	15
CONTRACT NO. 62D37				
ILLINOIS FED. AID PROJECT				



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S-5 Boring Log (Sheet 1 of 2).dgn  
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PLOT SCALE = 0:2.0000 '1' / in.  
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CHECKED - MI, MAI  
DATE - 02/01/2017

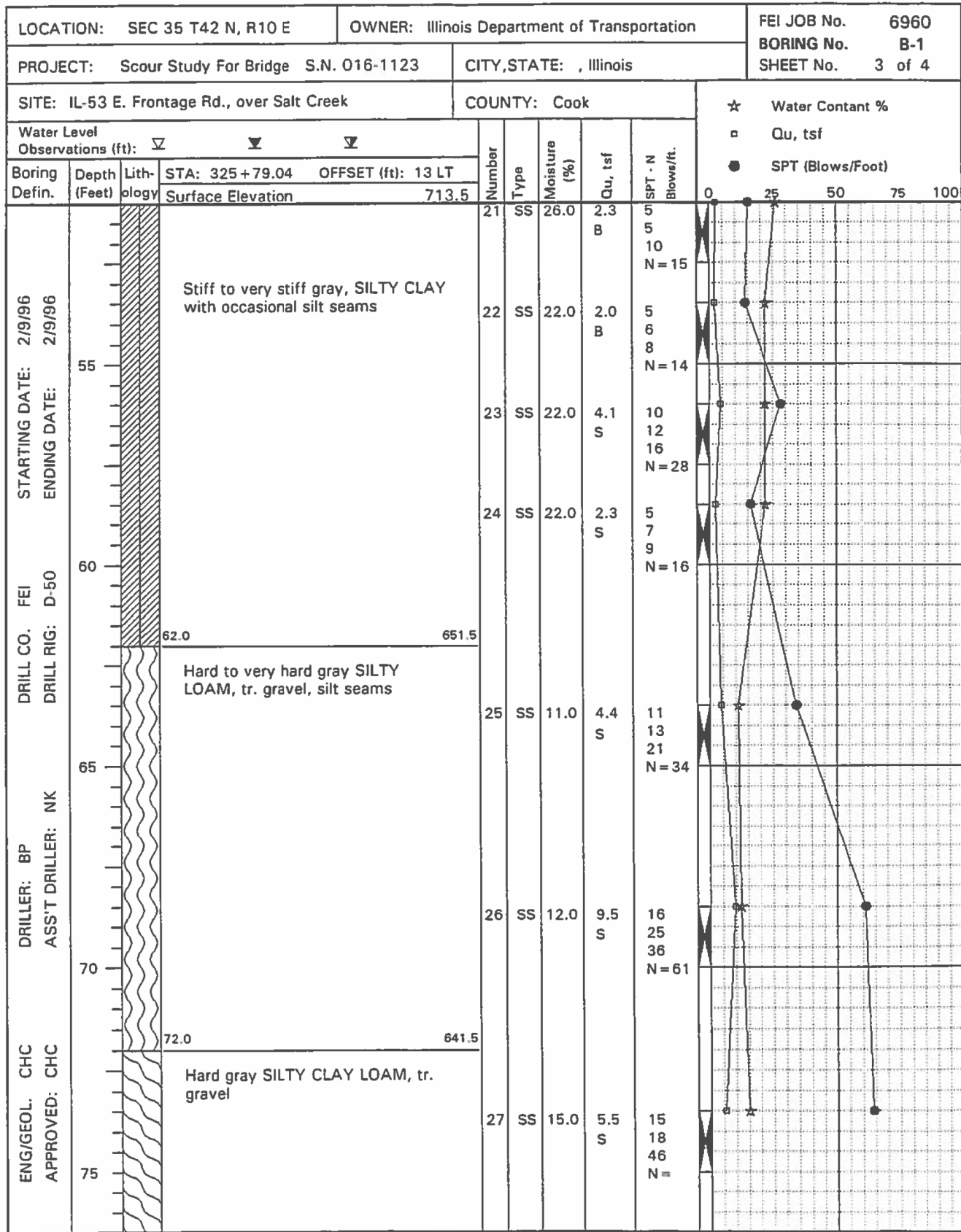
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOG (SHEET 1 OF 2)  
IL 53 OVER SALT CREEK (SN 016-0377)

SHEET S-5 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2016-055I	COOK	21	16
CONTRACT NO. 62D37				
ILLINOIS FED. AID PROJECT				



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S-6 Boring Log (Sheet 2 of 2).dgn  
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DATE - 02/01/2017

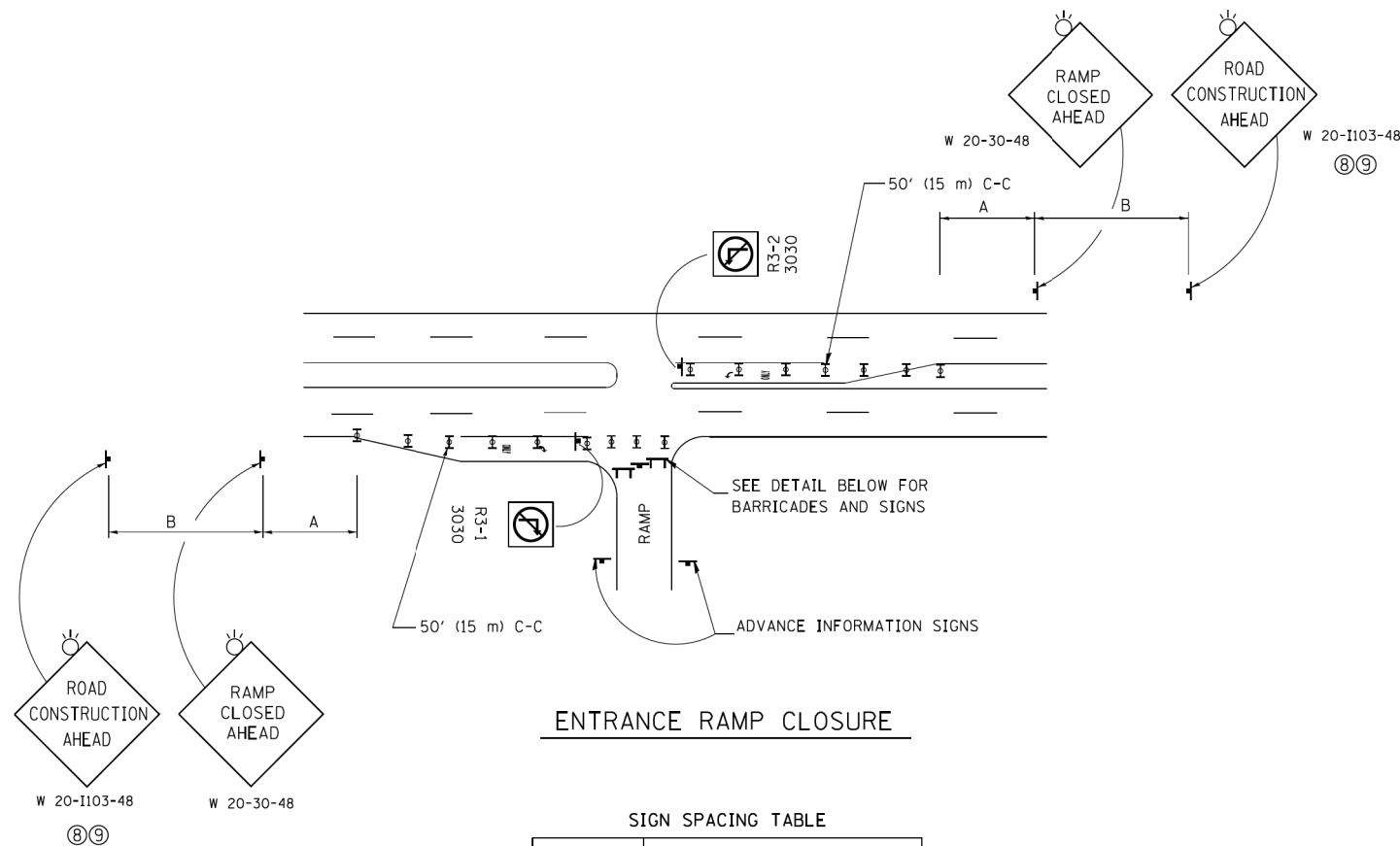
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOG (SHEET 2 OF 2)  
IL 53 OVER SALT CREEK (SN 016-0377)

SHEET S-6 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62D37				
ILLINOIS FED. AID PROJECT				

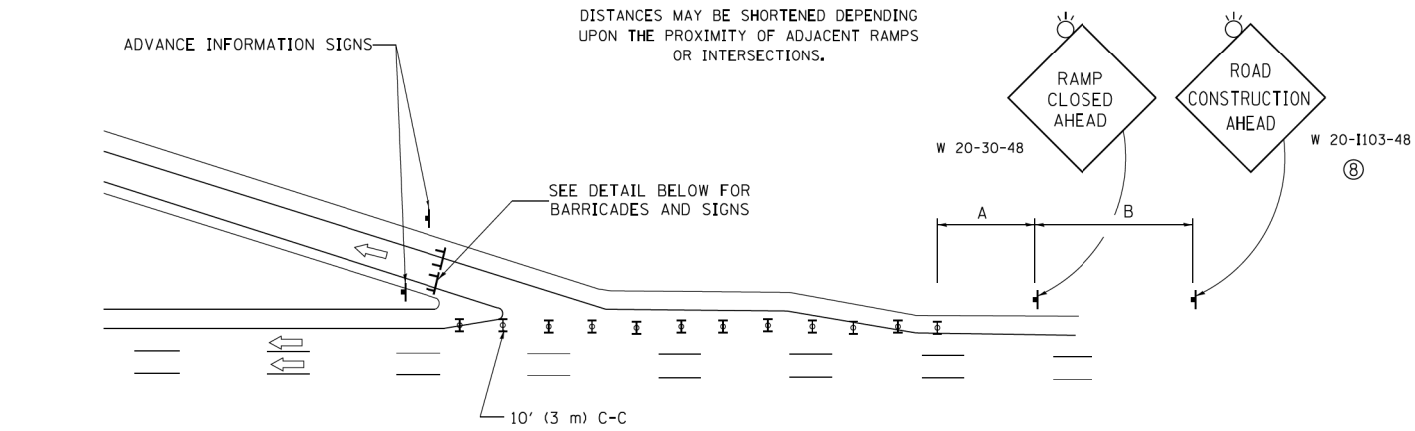


**ENTRANCE RAMP CLOSURE**

**SIGN SPACING TABLE**

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

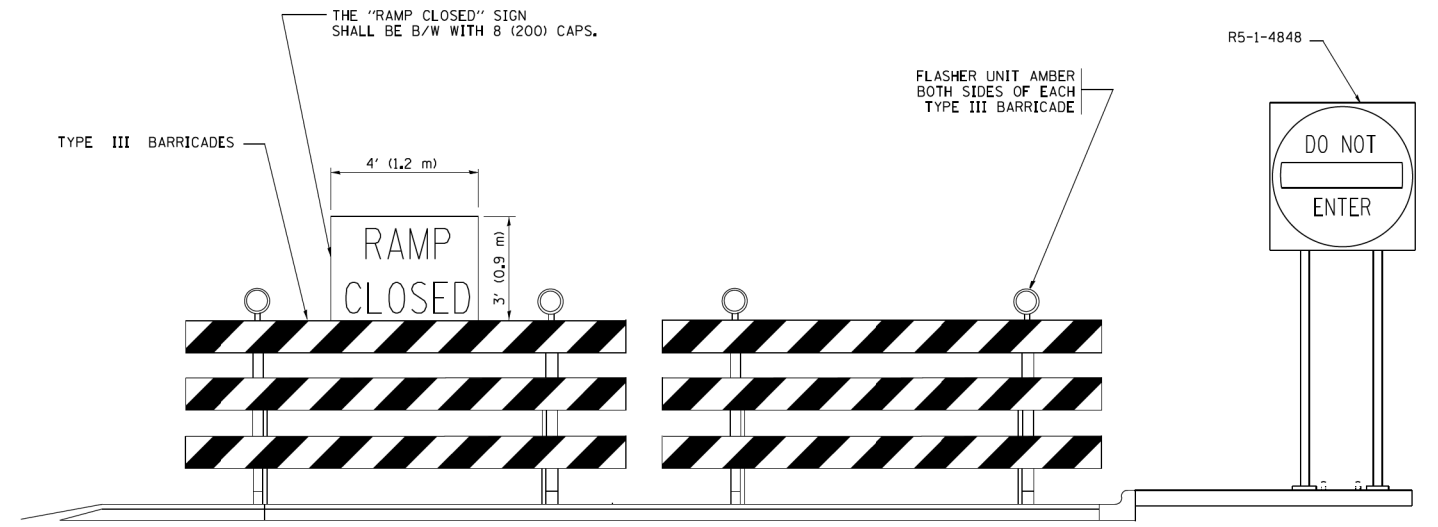
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



**EXIT RAMP CLOSURE**

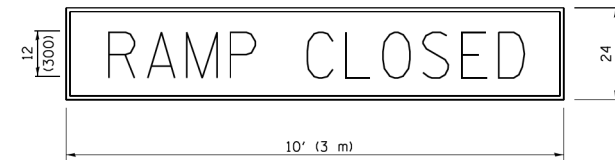
**SYMBOLS**

- ▬ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ▬ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



**DETAIL FOR REQUIRED BARRICADES & SIGNS**

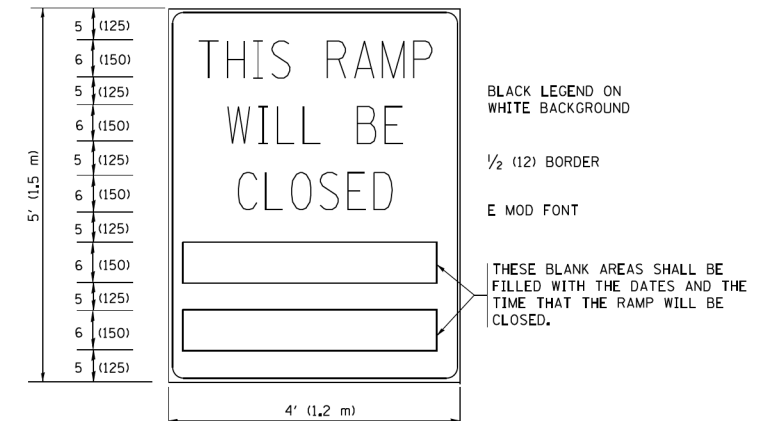
**RAMP CLOSURE ADVANCE WARNING SIGN**



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY  
E MOD FONT  
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

**RAMP CLOSURE ADVANCE INFORMATION SIGN**



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

**GENERAL NOTES:**

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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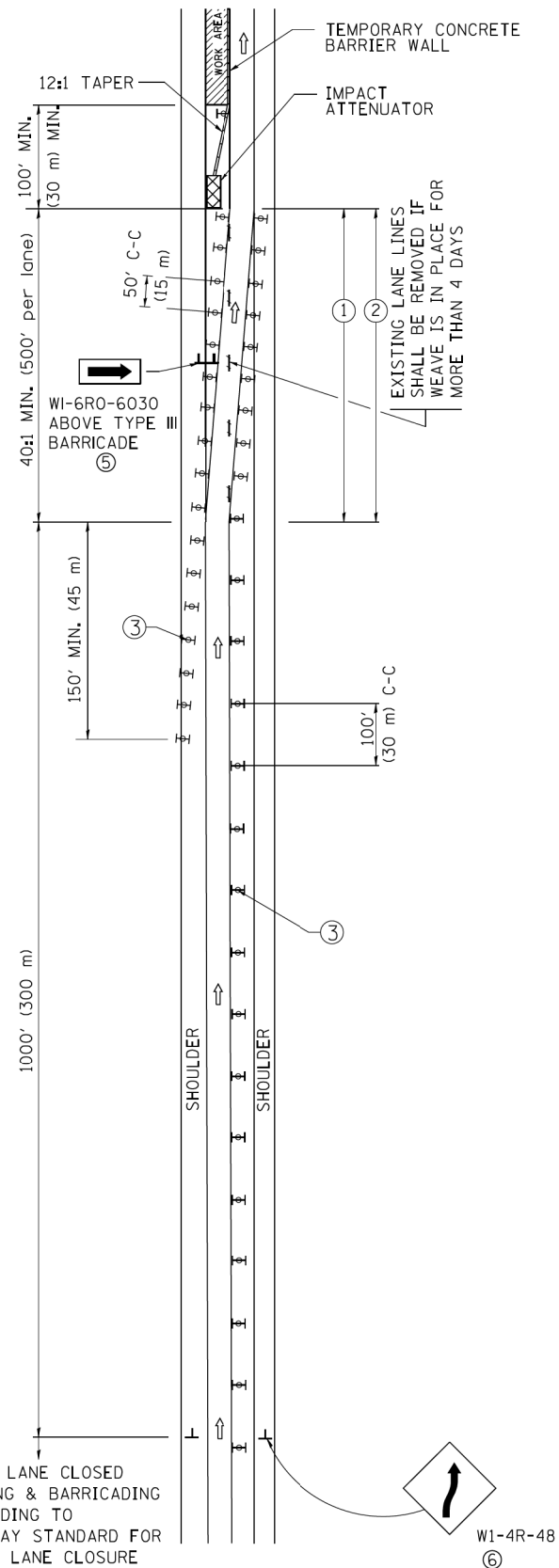
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP  
CLOSURE DETAILS**

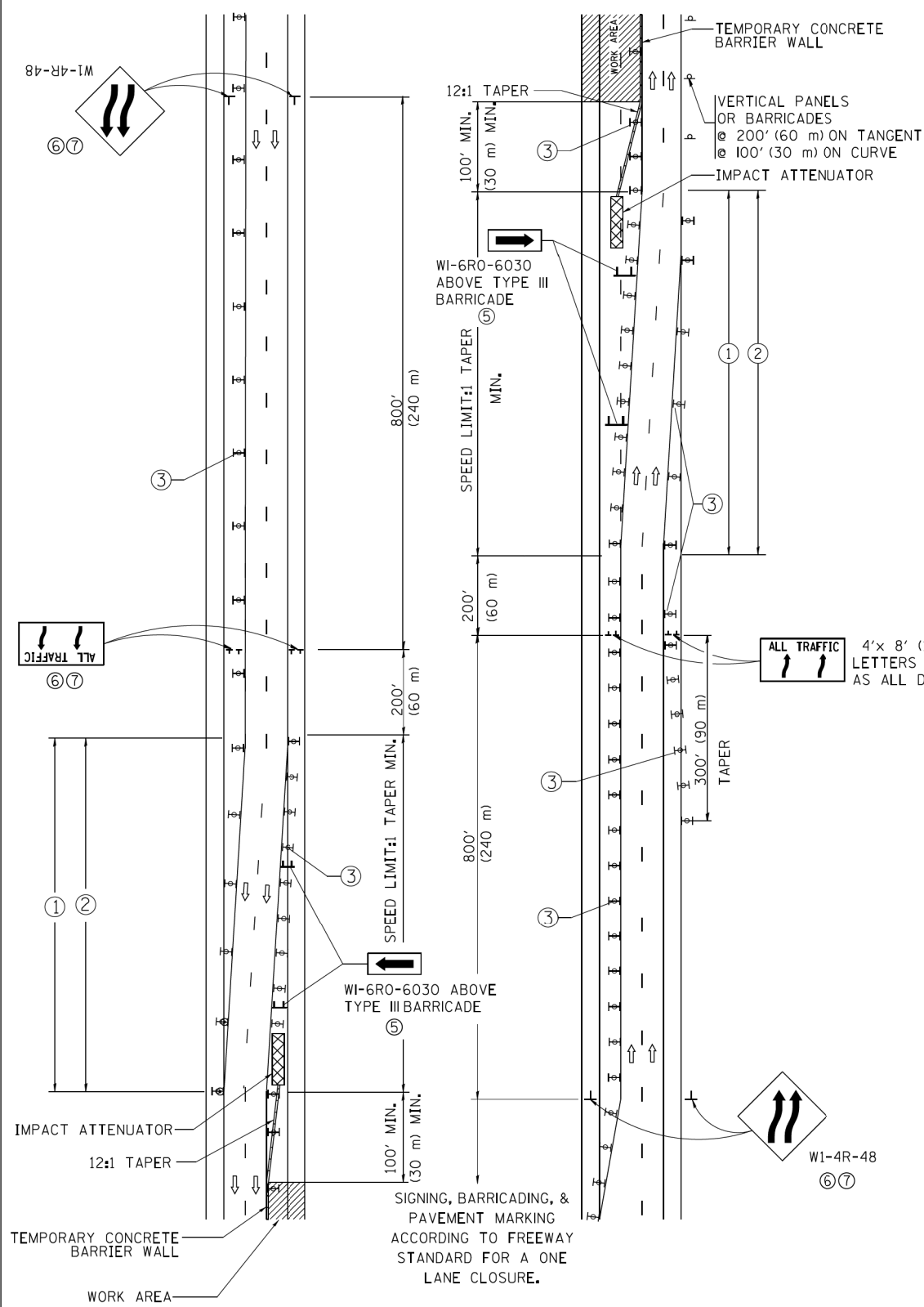
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2016-0551	COOK	21	18
TC-08			CONTRACT NO. 62D37	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

# SINGLE LANE WEAVE



# MULTI-LANE WEAVE



### GENERAL NOTES

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

### SYMBOLS

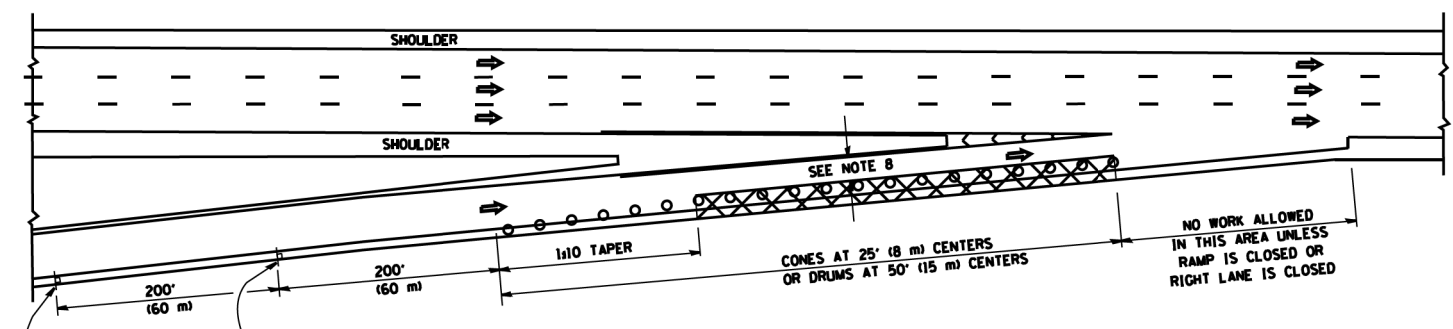
- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

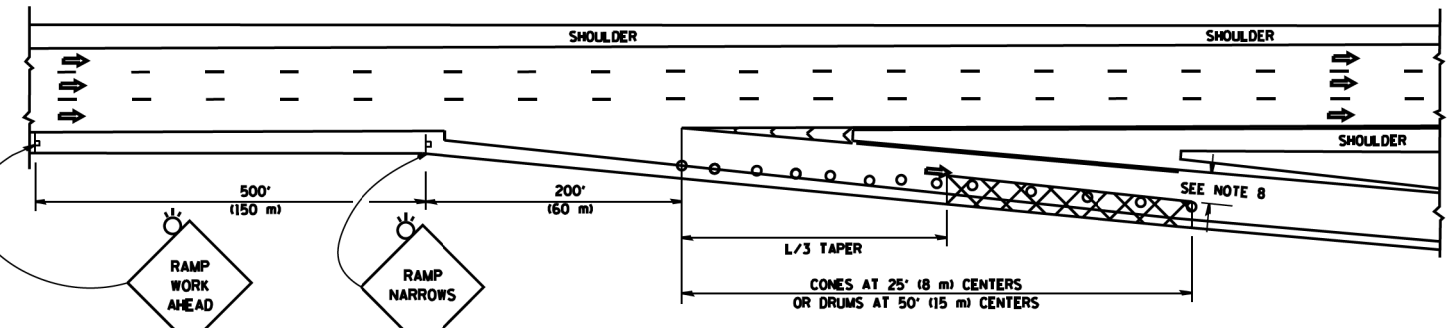
FILE NAME =	USER NAME = footemj	DESIGNED - RTB	REVISED - JAF 02-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE &amp; MULTI-LANE WEAVE</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\p\work\p\dot\Footemj\d0108315\td09.sgn	DRAWN - KJD	REVISED - SPB 01-07	342					2016-0551	COOK	21	19	
PLOT SCALE = 50.000' / in.	CHECKED - RTB, MI	REVISED - SPB 12-09	<b>TC-09</b>				CONTRACT NO. 62D37					
PLOT DATE = 7/1/2013	DATE - 02/01/2017	REVISED - MD 06-13	SCALE: NONE		SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**PARTIAL RAMP CLOSURE DETAILS**

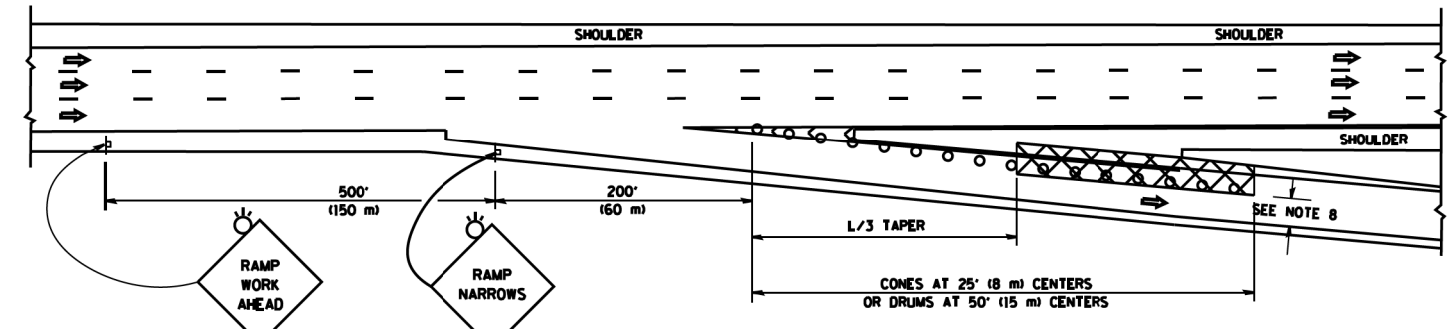
**SHOULDER CLOSURE DETAILS**



**TYPICAL ENTRANCE RAMP**



**TYPICAL EXIT RAMP**



**TYPICAL EXIT RAMP**

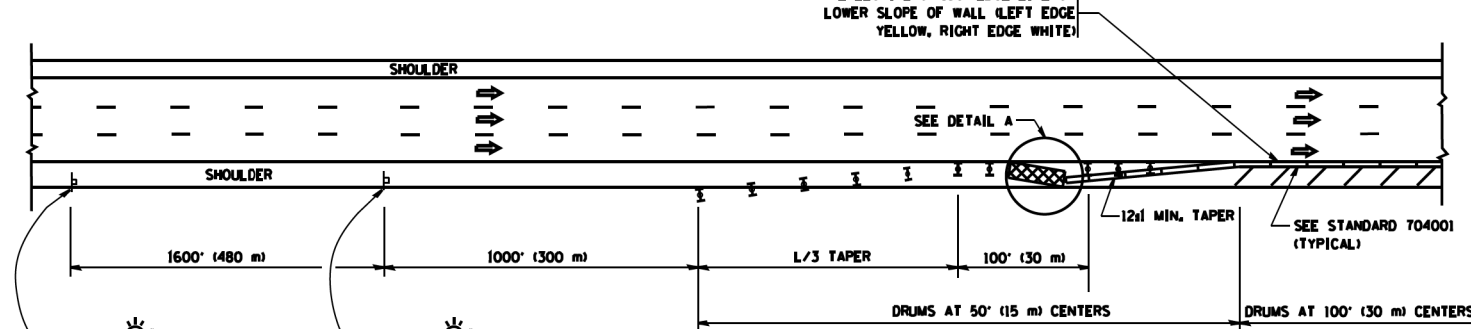
**SYMBOLS**

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

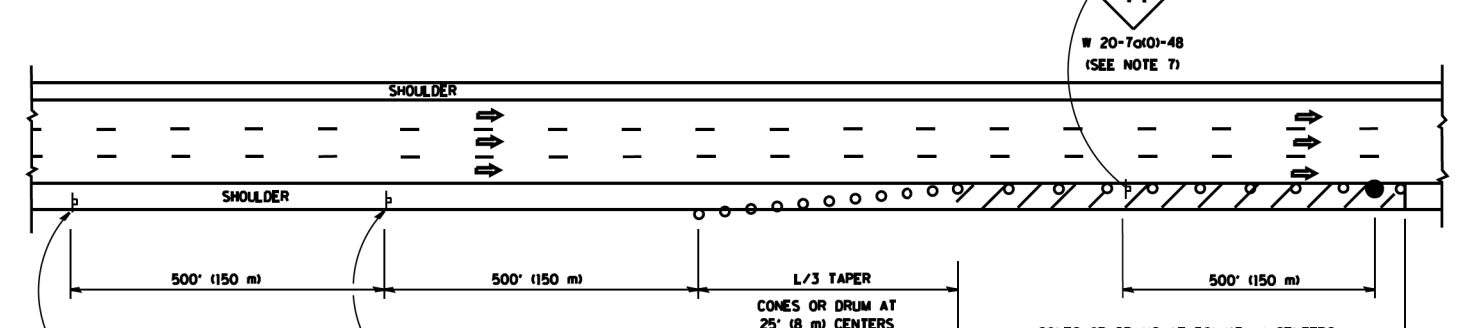
**GENERAL NOTES**

1. THE "L" DISTANCE EQUALS:
 

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER	METRIC ENGLISH L=0.65(WNS) L=(WNS)
W = WIDTH OF OFFSET IN FEET (METERS)	
S = NORMAL POSTED SPEED MPH (KM/H)	
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

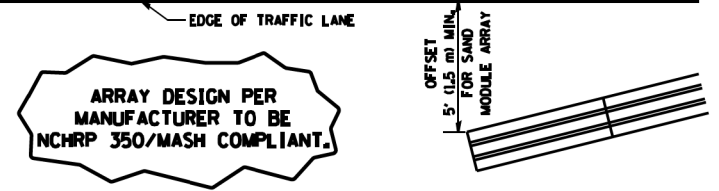


**PERMANENT SHOULDER CLOSURE**



**DAYTIME SHOULDER CLOSURE**

THIS DETAIL IS USED WHERE:  
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRANCH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



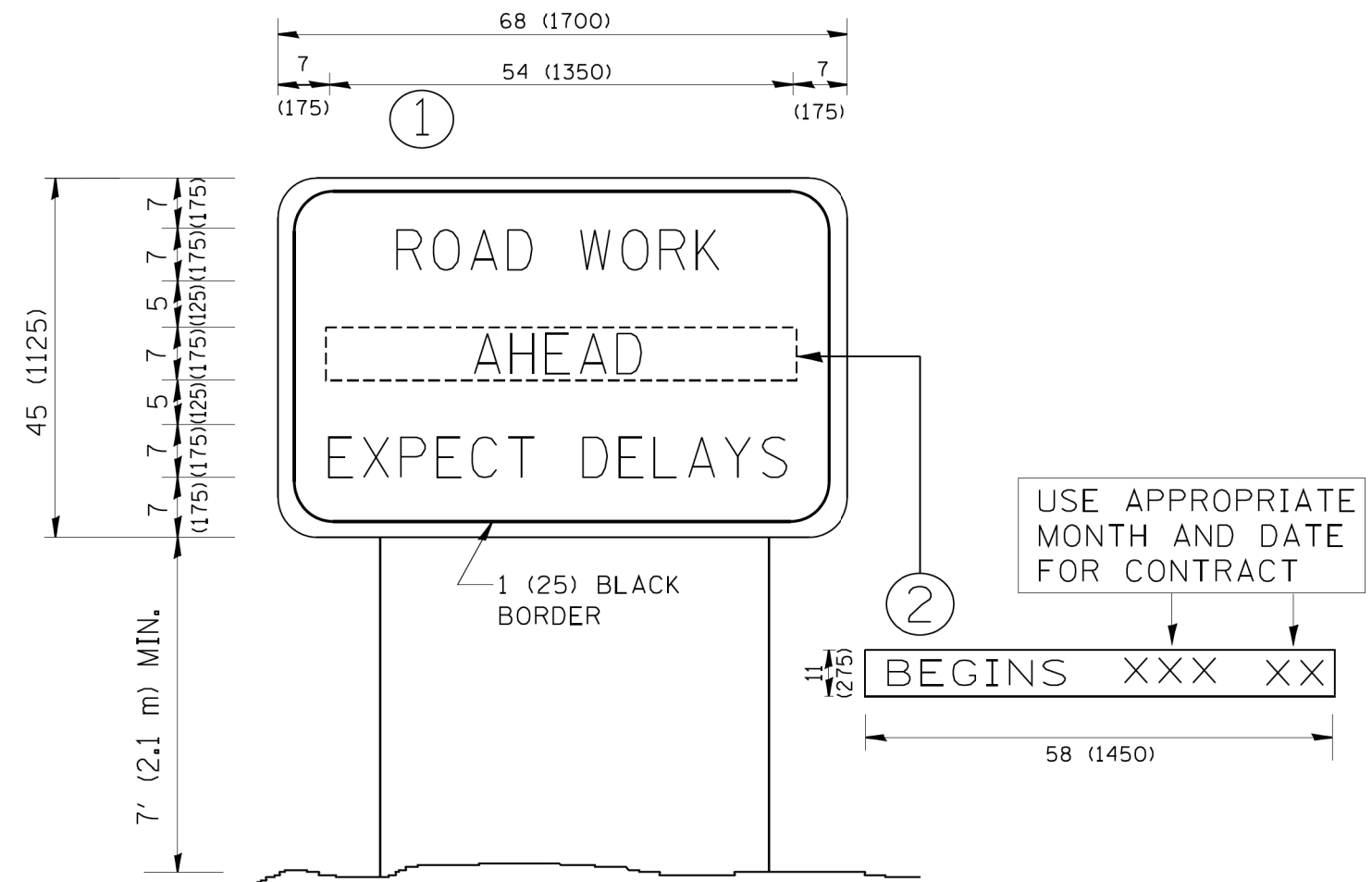
**DETAIL "A" IMPACT ATTENUATOR, TEMPORARY (SEE NOTE 5)**

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCRANCHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION  
16' MIN. WIDTH CURVE SECTION.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = lveysa	DESIGNED - RTB	REVISED - J.A.F. 12-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			F.A.P. RTE. 342	SECTION 2016-0551	COUNTY COOK	TOTAL SHEETS 21	SHEET NO. 20
CONTRACT NO. 62D37	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
PLOT SCALE = 100.0000' / 1" =	CHECKED - RTB, MI	REVISED - S.P.B. 01-07	REVISED - S.P.B. 12-09									
PLOT DATE = 4/17/2014	DATE - 02/01/2017	REVISED - M.D. 06-13	REVISED -									





**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = geglanoht	DESIGNED - RTB	REVISED - R. MIRS 09-15-97
		DRAWN - KJD	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000' / IN.	CHECKED - RTB, MI	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE - 02/01/2017	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2016-0551	COOK	21	21
TC-22		CONTRACT NO. 62D37		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				