

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2691	3134 RS-3	COOK	33	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 60F49	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAU 2691 / WOLF ROAD  
SECTION: 3134 RS-3  
IL. 72 (TOUHY AVENUE) TO IL. 58 (GOLF ROAD)  
RESURFACING (3P)

COOK COUNTY  
C-91-080-09  
MAINE TOWNSHIP  
R. 11 E.

FOR INDEX OF SHEETS, SEE SHEET NO. 2

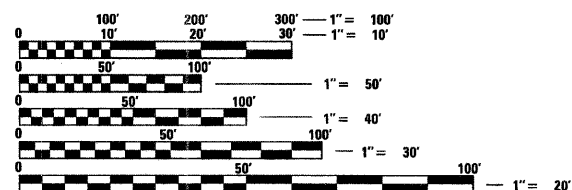
**DESIGN DESIGNATION:**  
POSTED SPEED LIMIT : 35 & 40 M.P.H.  
2007 ADT = 13,500

PROJECT LOCATED IN THE  
CITY OF DES PLAINES

D-91-080-09



LOCATION OF SECTION INDICATED THUS: -



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 LOCATING INFORMATION FOR EXCAVATORS  
1-800-892-0123  
OR 811

DISTRICT ONE - PLAN PREP ENGINEER:  
KEN ENG (847) 705-4247

CONTRACT NO. 60F49

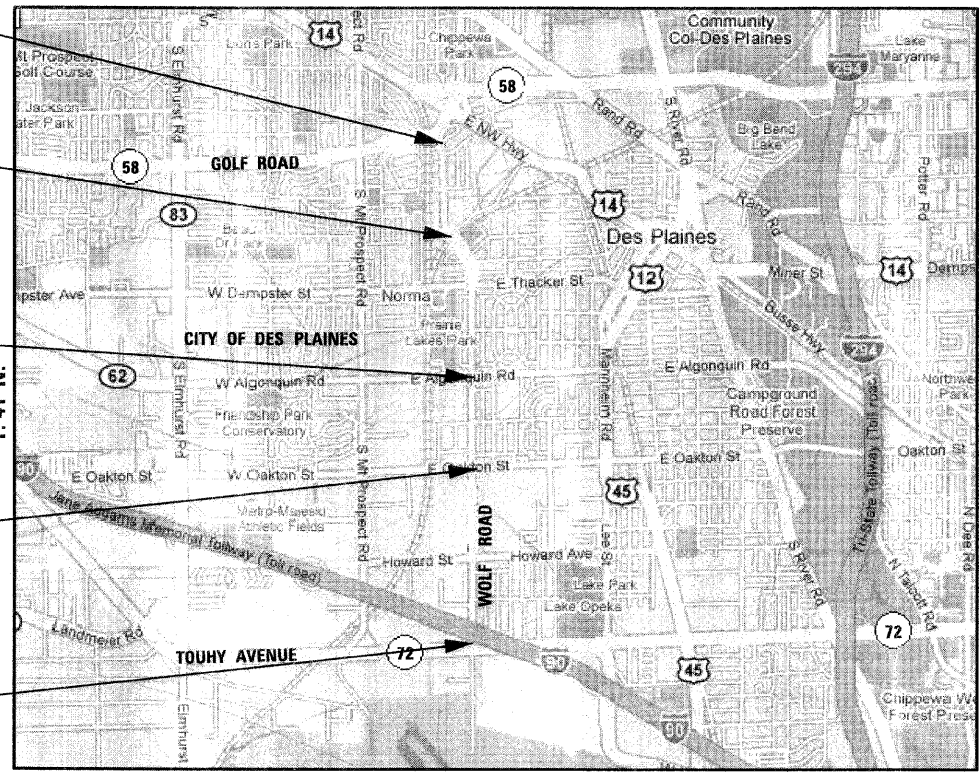
PROJECT ENDS  
STA. 252 + 03

PAVING OMISSION:  
STA. 222 + 42.3 TO  
STA. 222 + 89.4

PAVING OMISSION:  
STA. 179 + 21 TO  
STA. 181 + 10

PAVING OMISSION:  
STA. 153 + 51 TO  
STA. 153 + 95

PROJECT BEGINS  
STA. 101 + 00



GROSS LENGTH OF PROJECT = 15,103 FEET = 2.860 MILES  
NET LENGTH OF PROJECT = 14,823 FEET = 2.807 MILES



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED MARCH 30, 2009

*Diana M. O'Keefe* 98  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

May 1, 2009  
*Charles G. Ingersoll* 10  
ENGINEER OF DESIGN AND ENVIRONMENT

May 1, 2009  
*Christine M. Reed* 10  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER



*Brinder S. Sachdeva* March 23, 2009  
BRINDER S. SACHDEVA, P.E.  
RES: 11-30-2009

CHRISTIAN-ROGE & ASSOCIATES, INC.  
ENGINEERS - PLANNERS - SURVEYORS  
211 W. WACKER DRIVE CHICAGO, IL. 60606  
TELEPHONE: 312-372-2023

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

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LIST OF STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
420111-02	PCC PAVEMENT ROUNDOUTS
420701-02	PAVEMENT FABRIC
424001-05	CURB RAMPS FOR SIDEWALKS
442101-07	CLASS B PATCHES
442201-03	CLASS C AND D PATCHES
604001-03	FRAME AND LIDS, TYPE 1
604051-03	FRAME AND GRATE TYPE 11
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
606306-03	CORRUGATED PC CONCRETE MEDIANS
701601-06	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-04	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-06	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
2. 10 FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER ITEMS OF WORK TO EXISTING CURBS AND GUTTERS AND CONDITIONS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF DES PLAINES.
4. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
6. SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
7. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
8. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
9. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 40 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
10. UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING. SEE NOTE 18 FOR CLASS B PATCHING.
11. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE TYPE III SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKINGS.
12. THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
13. THE CONTRACTOR SHALL CONTACT MR. WALTER CZARNY, THE AREA TRAFFIC FIELD ENGINEER, AT (773) 685-8386 AT LEAST TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
14. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
15. MATCH EXISTING PAVEMENT MARKINGS AT THE PROJECT AND OMISSION LIMITS.
16. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
17. OVERNIGHT LANE CLOSURES SHALL BE ALLOWED FOR CONSTRUCTION OF CLASS B PATCHES AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE LANE CLOSURES SHALL BE COORDINATED WITH THE TRAFFIC CONTROL SUPERVISOR. SEE NOTE 12.
18. PAY ITEM 55039700 - STORM SEWERS TO BE CLEANED - SHALL ONLY BE UTILIZED TO CLEAN STORM SEWER LATERAL PIPES BETWEEN INLETS OR CATCH BASINS AND THE MAIN SEWER.

FILE NAME = D160F49-shr-gennote.dgn  
PLOT DATE = 3/31/2009

**CR**  
**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
ENGINEERS-PLANNERS-SURVEYORS  
211 WEST WACKER DRIVE  
CHICAGO, ILLINOIS 60606  
PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - G.F.L.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - M.P.	REVISED -
DATE - MARCH 2009	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, LIST OF STATE STANDARDS AND GENERAL NOTES**  
**WOLF ROAD ( IL. 72 (TOUHY AVENUE) TO IL. 58 (GOLF ROAD) )**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 101+00 TO STA. 252+03

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2691	3134 RS-3	COOK	33	2
CONTRACT NO. 60F49				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES			URBAN 100% STATE	CONSTRUCTION TYPE CODE
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	1000 URBAN
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	63	63
40600300	AGGREGATE (PRIME COAT)	TON	362	362
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	60	60
40600895	CONSTRUCTING TEST STRIP	EACH	2	2
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1,129	1,129
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	656	656
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	7,594	7,594
42001300	PROTECTIVE COAT	SQ YD	4,699	4,699
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	100	100
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	90,405	90,405
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	463	463
44000600	SIDEWALK REMOVAL	SQ FT	100	100
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	20,176	20,176
44002000	CONCRETE CURB REMOVAL	FOOT	35	35
44002020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	1,079	1,079
44002215	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3 3/4"	SQ YD	3,125	3,125
44200966	CLASS B PATCHES, TYPE I, 10 INCH	SQ YD	20	20
44200970	CLASS B PATCHES, TYPE II, 10 INCH	SQ YD	75	75
44200974	CLASS B PATCHES, TYPE III, 10 INCH	SQ YD	85	85
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	1,000	1,000
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	500	500
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	1,000	1,000
44213200	SAW CUTS	FOOT	364	364
55039700	STORM SEWERS TO BE CLEANED	FOOT	5,535	5,535
60250400	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	2	2
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	2	2
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	2	2
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	120	120
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	105	105
60404800	FRAMES AND GRATES, TYPE 11	EACH	6	6
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	2	2
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	2	2

SUMMARY OF QUANTITIES			URBAN 100% STATE	CONSTRUCTION TYPE CODE
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	1000 URBAN
60600805	CONCRETE CURB, TYPE B (DOWELLED)	FOOT	35	35
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	1,079	1,079
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	L SUM	1	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	40,000	40,000
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1,956	1,956
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	48,232	48,232
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	3,573	3,573
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	2,315	2,315
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	718	718
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	5,500	5,500
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1,956	1,956
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	48,232	48,232
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	3,573	3,573
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2,315	2,315
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	718	718
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1,524	1,524
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1,524	1,524
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1,692	1,692
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	52	52
X0656100	DRIVEWAY PAVEMENT REMOVAL AND REPLACEMENT	SQ YD	900	900
X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	3,797	3,797
Z0017202	DOWEL BARS 1 1/2"	EACH	296	296
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	97	97
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1

\* SPECIALTY ITEM

FILE NAME = D160F49-shr-S00.dgn  
PLOT DATE = 3/31/2009



CHRISTIAN-ROGE & ASSOCIATES, INC.  
ENGINEERS-PLANNERS-SURVEYORS  
211 WEST WACKER DRIVE  
CHICAGO, ILLINOIS 60606  
PHONE: (312)372-2023 FAX: (312)372-5274

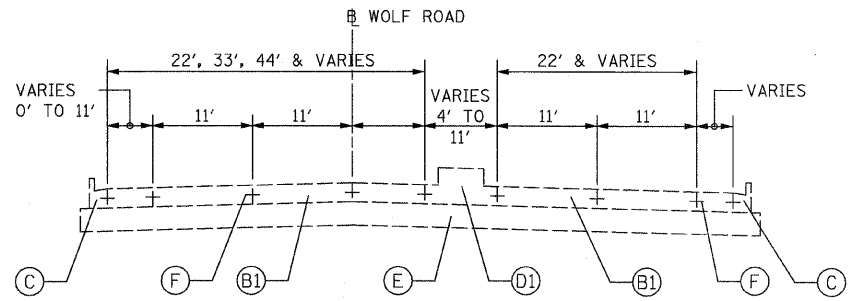
DESIGNED -	G.F.L.	REVISED -	
DRAWN -	B.K.	REVISED -	
CHECKED -	M.P.	REVISED -	
DATE -	MARCH 2009	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

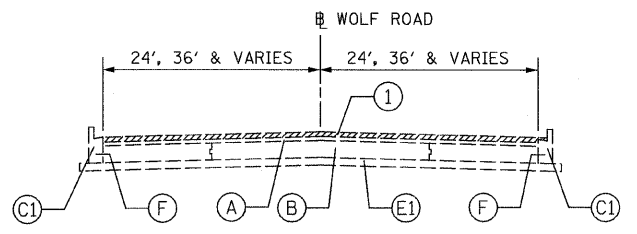
SUMMARY OF QUANTITIES  
WOLF ROAD ( IL. 72 (TOUHY AVENUE) TO IL. 58 (GOLF ROAD) )

SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. 101+00 TO STA. 252+03

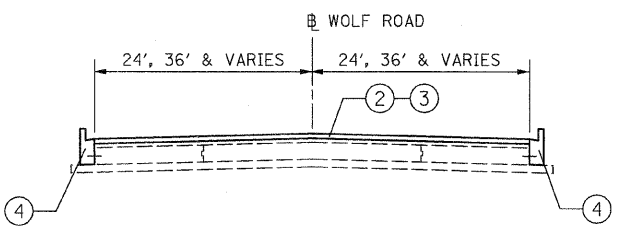
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2691	3134 RS-3	COOK	33	3
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60F49	



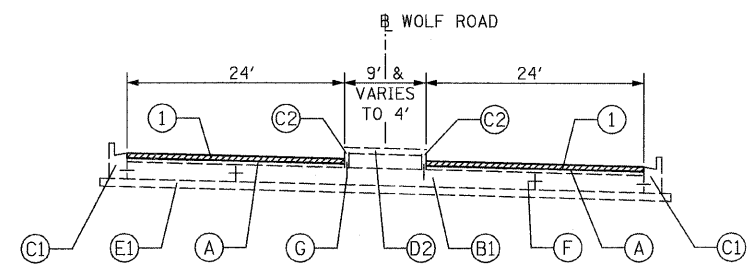
**EXISTING TYPICAL SECTION**  
STA. 101+00 TO STA. 112+18



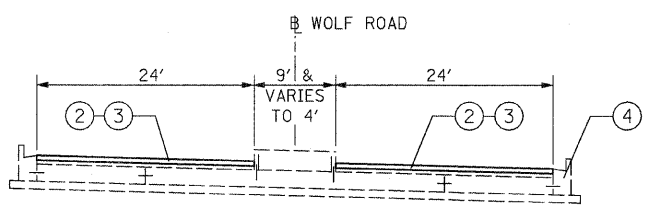
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STA. 112+18 TO STA. 221+78  
STA. 223+82 TO STA. 247+84  
STA. 247+84 TO STA. 248+61 (BRIDGE OVER WELLER CREEK)  
STA. 248+61 TO STA. 252+03



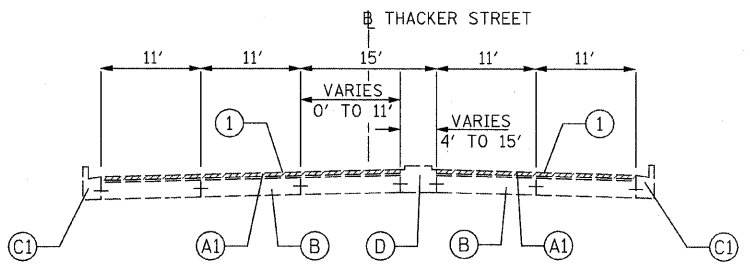
**PROPOSED TYPICAL SECTION**  
STA. 112+18 TO STA. 221+78  
STA. 223+82 TO STA. 247+84  
STA. 247+84 TO STA. 248+61 (BRIDGE OVER WELLER CREEK)  
STA. 248+61 TO STA. 252+03



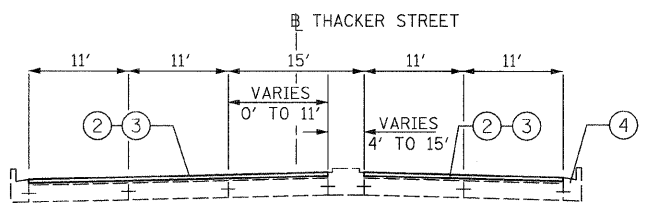
**EXISTING TYPICAL SECTION**  
STA. 221+78 TO STA. 223+82



**PROPOSED TYPICAL SECTION**  
STA. 221+78 TO STA. 223+82



**THACKER STREET - EXISTING TYPICAL SECTION**  
STA. 10+00 TO STA. 15+53



**THACKER STREET - PROPOSED TYPICAL SECTION**  
STA. 10+00 TO STA. 15+53

**EXISTING CONDITIONS**

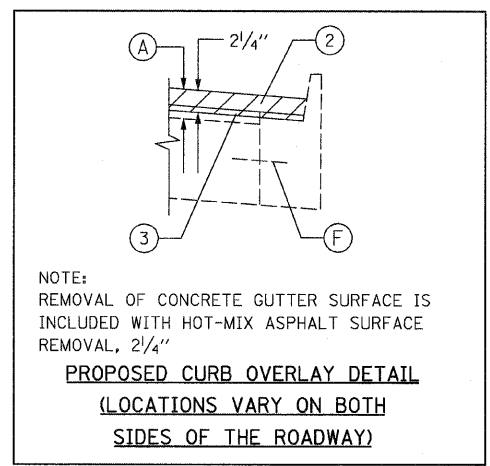
- (A) HOT-MIX ASPHALT SURFACE AND BINDER COURSE, VARIES 3" TO 4 1/4"
- (A1) HOT-MIX ASPHALT SURFACE AND BINDER COURSE, 3" & VARIES
- (B) P.C.C. BASE COURSE, 9" & VARIES
- (B1) P.C.C. PAVEMENT, 10" & VARIES
- (C) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (C1) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
- (C2) CONCRETE CURB, TYPE B6 (DOWELLED)
- (D) CONCRETE MEDIAN, CORRUGATED
- (D1) CONCRETE MEDIAN, CORRUGATED OR BARRIER, TYPE SB-6.18
- (D2) CONCRETE MEDIAN SURFACE, 4"
- (E) AGGREGATE SUBGRADE, 12"
- (E1) AGGREGATE SUBGRADE, 4"
- (F) TIE BARS
- (G) DOWEL BARS

**PROPOSED IMPROVEMENTS**

- (1) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- (2) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- (3) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (4) COMB. CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT  
(AS DETERMINED BY THE ENGINEER)

**NOTES:**

1. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING..

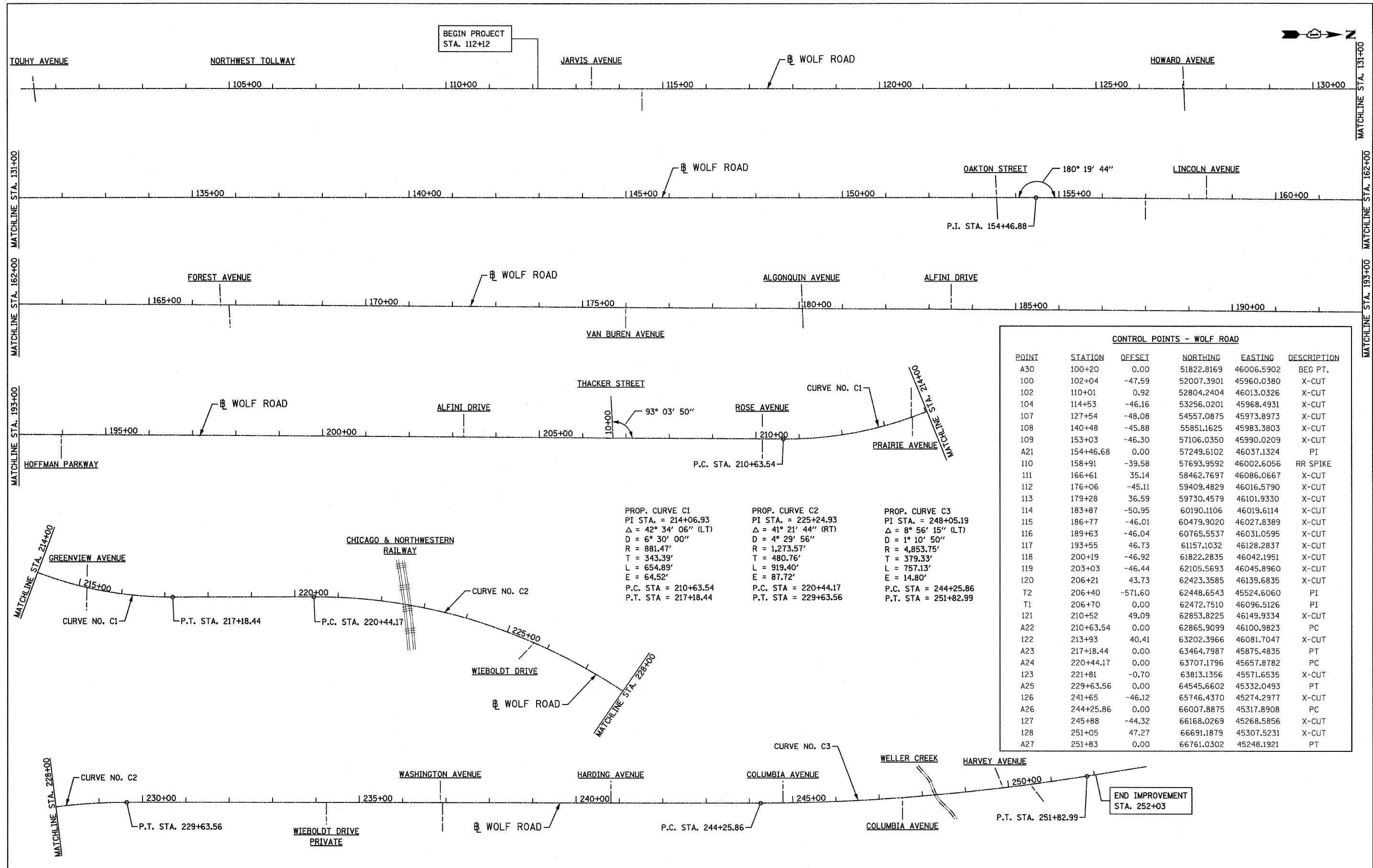


NOTE:  
REMOVAL OF CONCRETE GUTTER SURFACE IS INCLUDED WITH HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"

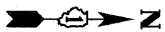
**PROPOSED CURB OVERLAY DETAIL**  
(LOCATIONS VARY ON BOTH SIDES OF THE ROADWAY)

ROADWAY NAME	HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
	MIXTURE TYPE	AC TYPE	AIR VOIDS
WOLF ROAD	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	PG 64-22	4% @ 70 GYR.
	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	SBS/SBR PG 76-28/-22	4% @ 50 GYR.
	CLASS D PATCHES (HMA BINDER IL-19 mm)	* PG 64-22	4% @ 70 GYR.
	HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	* PG 64-22	4% @ 70 GYR.

\* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.  
THE UNIT WEIGHT USED TO CALCULATE ALL HMA MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.



BEGIN PROJECT  
STA. 112+12



CONTROL POINTS - WOLF ROAD					
POINT	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
A30	100+20	0.00	51822.8169	46006.5902	BEG PT.
100	102+04	-47.59	52007.3901	45960.0380	X-CUT
102	110+01	0.92	52804.2404	46013.0326	X-CUT
104	114+53	-46.16	53256.0201	45968.4931	X-CUT
107	127+54	-48.08	54557.0875	45973.8973	X-CUT
108	140+48	-45.88	55851.1625	45983.3803	X-CUT
109	153+03	-46.30	57106.0350	45990.0209	X-CUT
A21	154+46.68	0.00	57249.6102	46037.1324	PI
110	158+91	-39.58	57693.9592	46002.6056	RR SPIKE
111	166+61	35.14	58462.7697	46086.0667	X-CUT
112	176+06	-45.11	59409.4829	46016.5790	X-CUT
113	179+28	36.59	59730.4579	46101.9330	X-CUT
114	183+87	-50.95	60190.1106	46019.6114	X-CUT
115	186+77	-46.01	60479.9020	46027.8389	X-CUT
116	189+63	-46.04	60765.5537	46031.0595	X-CUT
117	193+55	46.73	61157.1032	46128.2837	X-CUT
118	200+19	-46.92	61822.2835	46042.1951	X-CUT
119	203+03	-46.44	62105.5693	46045.8960	X-CUT
120	206+21	43.73	62423.3585	46139.6835	X-CUT
T2	206+40	-571.60	62448.6543	45524.6060	PI
T1	206+70	0.00	62472.7510	46096.5126	PI
121	210+52	49.09	62853.8225	46149.9334	X-CUT
A22	210+63.54	0.00	62865.9099	46100.9823	PC
122	213+93	40.41	63202.3966	46081.7047	X-CUT
A23	217+18.44	0.00	63464.7987	45875.4835	PT
A24	220+44.17	0.00	63707.1796	45657.8782	PC
123	221+81	-0.70	63813.1356	45571.6535	X-CUT
A25	229+63.56	0.00	64545.6602	45332.0493	PT
126	241+65	-46.12	65746.4370	45274.2977	X-CUT
A26	244+25.86	0.00	66007.8875	45317.8908	PC
127	245+88	-44.32	66168.0269	45268.5856	X-CUT
128	251+05	47.27	66691.1879	45307.5231	X-CUT
A27	251+83	0.00	66761.0302	45248.1921	PT

**PROP. CURVE C1**  
 PI STA. = 214+06.93  
 $\Delta = 42^\circ 34' 06''$  (LT)  
 $D = 6^\circ 30' 00''$   
 $R = 881.47'$   
 $T = 343.39'$   
 $L = 654.89'$   
 $E = 64.52'$   
 P.C. STA. = 210+63.54  
 P.T. STA. = 217+18.44

**PROP. CURVE C2**  
 PI STA. = 225+24.93  
 $\Delta = 41^\circ 21' 44''$  (RT)  
 $D = 4^\circ 29' 56''$   
 $R = 1,273.57'$   
 $T = 480.76'$   
 $L = 919.40'$   
 $E = 87.72'$   
 P.C. STA. = 220+44.17  
 P.T. STA. = 229+63.56

**PROP. CURVE C3**  
 PI STA. = 248+05.19  
 $\Delta = 8^\circ 56' 15''$  (LT)  
 $D = 1^\circ 10' 50''$   
 $R = 4,853.75'$   
 $T = 379.33'$   
 $L = 757.13'$   
 $E = 14.80'$   
 P.C. STA. = 244+25.86  
 P.T. STA. = 251+82.99

FILE NAME = D:\60F49-shr-ATB.dgn  
PLOT DATE = 1/27/2009

**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
ENGINEERS-PLANNERS-SURVEYORS  
211 WEST WACKER DRIVE  
CHICAGO, ILLINOIS 60606  
PHONE: (312)372-2023 FAX: (312)372-5274

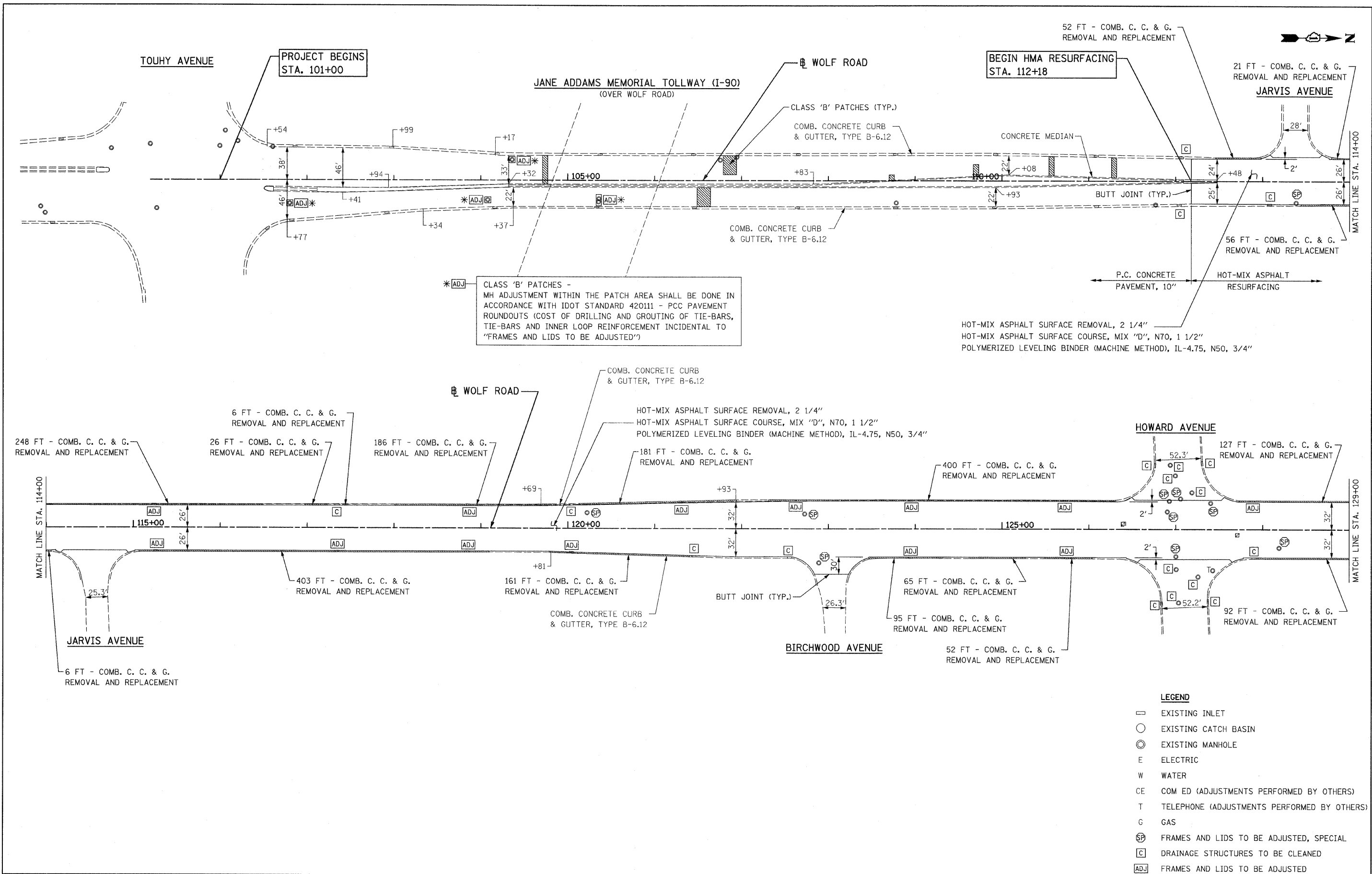
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DRAWN -	REVISED -
CHECKED - G.F.L.	REVISED -
DATE - MARCH 2009	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT PLAN  
WOLF ROAD ( IL. 72 (TOUHY AVENUE) TO IL. 58 (GOLF ROAD) )**

SCALE: 1" = 100' SHEET NO. 1 OF 1 SHEETS STA. 101+11 TO STA. 126+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2691	3134 RS-3	COOK	32	5
CONTRACT NO. 60F49			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	



FILE NAME = D160F49-sht-plan01.dgn  
 PLOT DATE = 3/30/2009

**CR & A**  
**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-5274

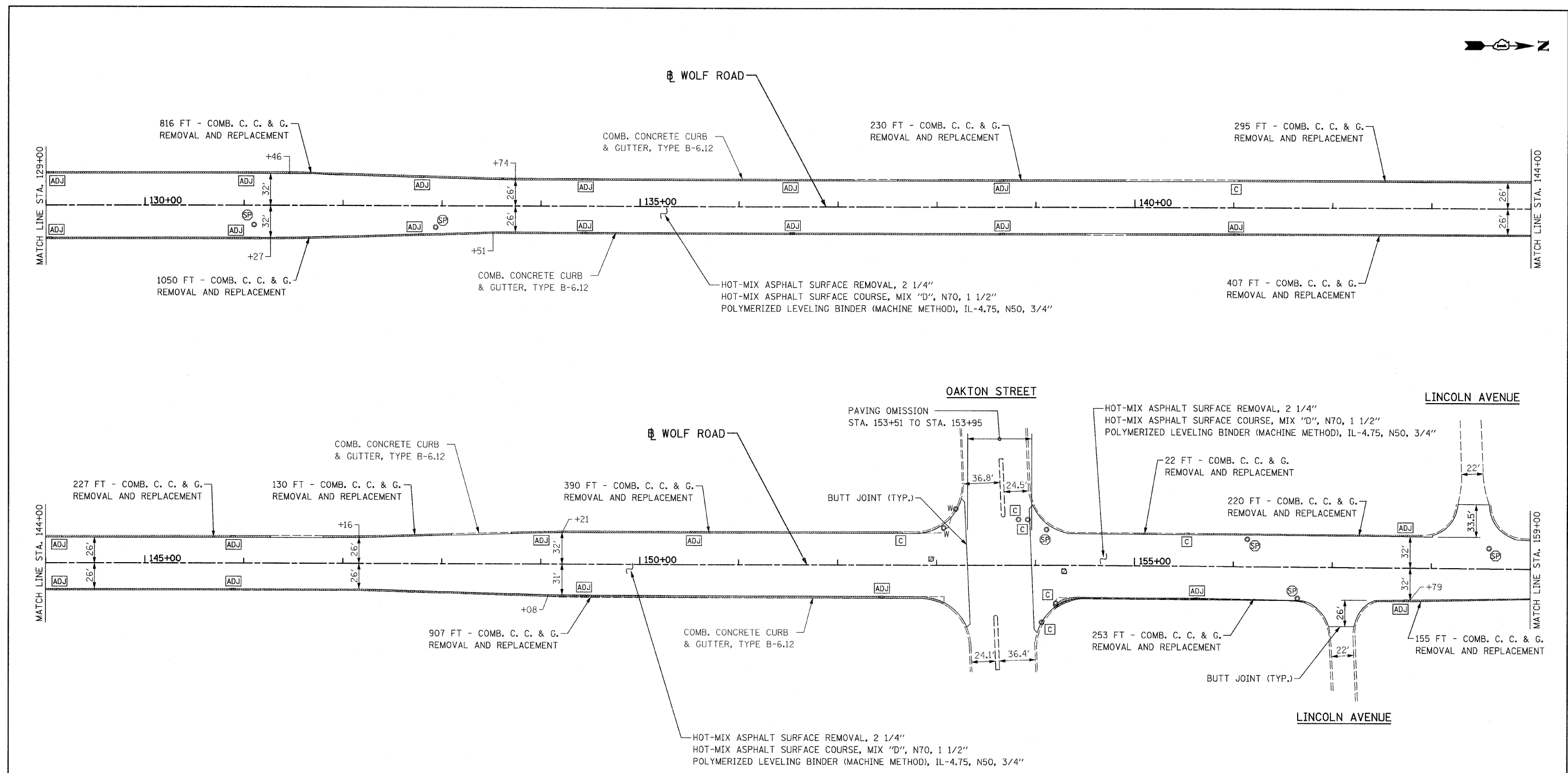
DESIGNED - G.F.L.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - M.P.	REVISED -
DATE - MARCH 2009	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN  
 WOLF ROAD ( IL 72 (TOUHY AVENUE) TO IL 58 (GOLF ROAD) )**

SCALE: 1" = 50'    SHEET NO. 1 OF 6 SHEETS    STA. 101+00 TO STA. 129+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2691	3134 RS-3	COOK	33	6
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60F49	



- LEGEND**
- EXISTING INLET
  - EXISTING CATCH BASIN
  - ⊙ EXISTING MANHOLE
  - E ELECTRIC
  - W WATER
  - CE COM ED (ADJUSTMENTS PERFORMED BY OTHERS)
  - T TELEPHONE (ADJUSTMENTS PERFORMED BY OTHERS)
  - G GAS
  - ⊕ SP FRAMES AND LIDS TO BE ADJUSTED, SPECIAL
  - C DRAINAGE STRUCTURES TO BE CLEANED
  - ⊕ ADJ FRAMES AND LIDS TO BE ADJUSTED

FILE NAME = D160F49-sht-plan02.dgn  
 PLOT DATE = 3/30/2009

**CR & A**  
**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - G.F.L.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - M.P.	REVISED -
DATE - MARCH 2009	REVISED -

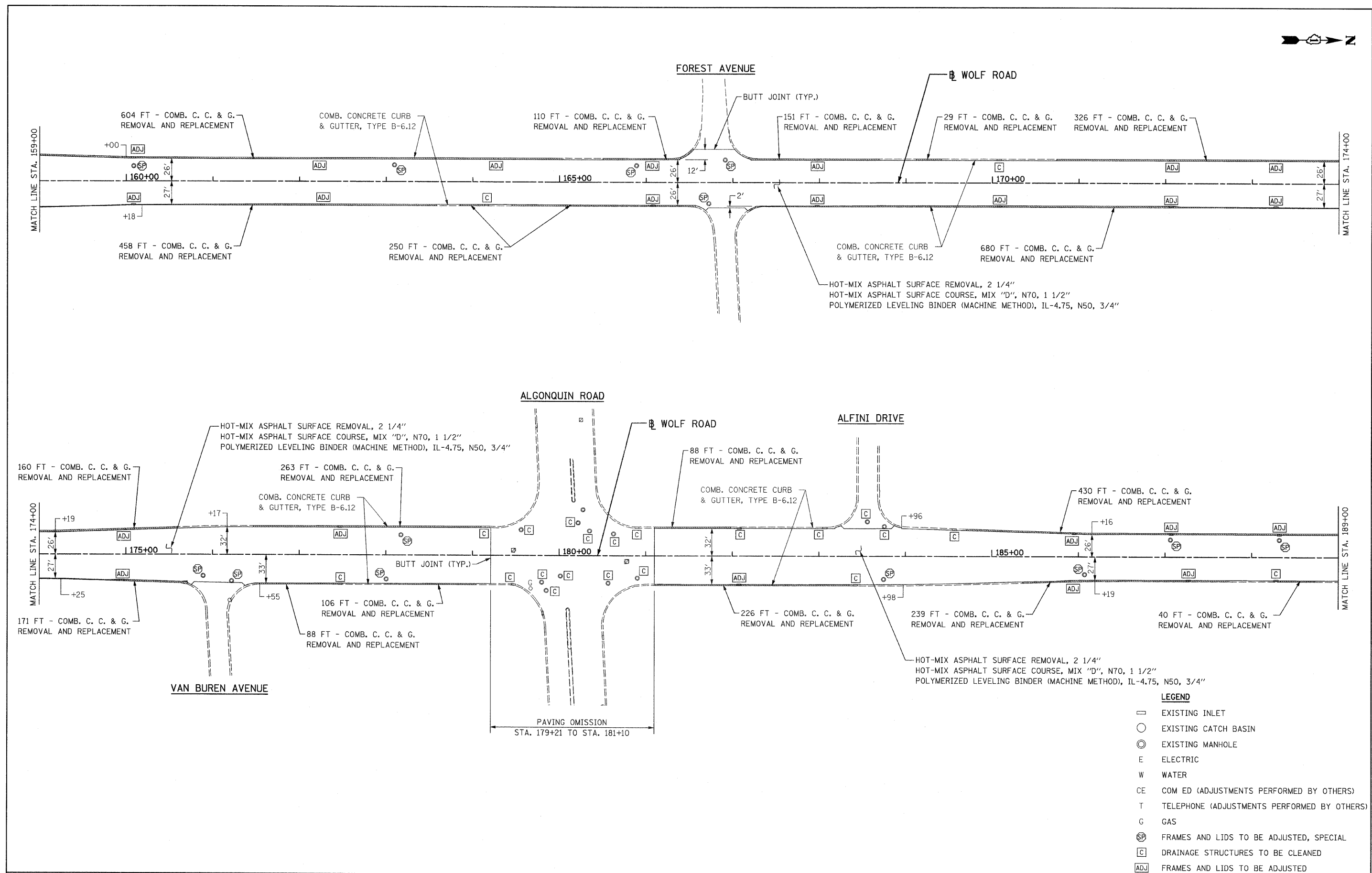
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN**  
**WOLF ROAD ( IL 72 (TOUHY AVENUE) TO IL 58 (GOLF ROAD) )**

SCALE: 1" = 50'    SHEET NO. 2 OF 6 SHEETS    STA. 129+00 TO STA. 159+00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2691	3134 RS-3	COOK	33	7
FED. ROAD DIST. NO. 1				ILLINOIS FED. AID PROJECT

CONTRACT NO. 60F49



FILE NAME = D160F49-sht-plan03.dgn  
 PLOT DATE = 3/30/2009

**CR & A**  
**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - G.F.L.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - M.P.	REVISED -
DATE - MARCH 2009	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN**  
**WOLF ROAD ( IL 72 (TOUHY AVENUE) TO IL 58 (GOLF ROAD) )**

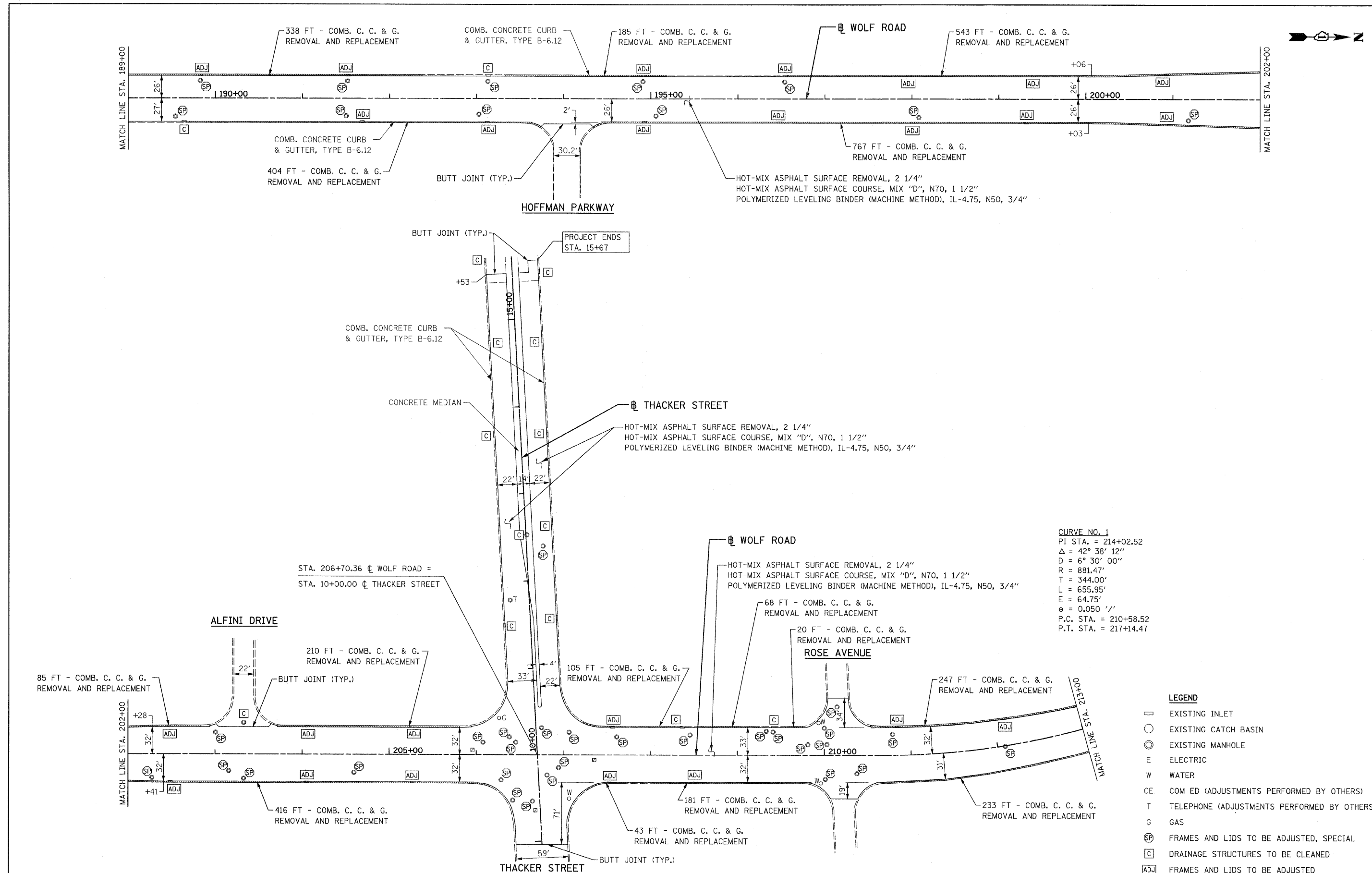
SCALE: 1" = 50'    SHEET NO. 3 OF 6 SHEETS    STA. 159+00 TO STA. 189+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2691	3134 RS-3	COOK	33	8

CONTRACT NO. 60F49  
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

- LEGEND**
- EXISTING INLET
  - EXISTING CATCH BASIN
  - ⊙ EXISTING MANHOLE
  - E ELECTRIC
  - W WATER
  - CE COM ED (ADJUSTMENTS PERFORMED BY OTHERS)
  - T TELEPHONE (ADJUSTMENTS PERFORMED BY OTHERS)
  - G GAS
  - ⊕ SP FRAMES AND LIDS TO BE ADJUSTED, SPECIAL
  - C DRAINAGE STRUCTURES TO BE CLEANED
  - ADJ FRAMES AND LIDS TO BE ADJUSTED





FILE NAME = D160F49-ht-plan04.dgn  
 PLOT DATE = 3/30/2009

**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - G.F.L.	REVISED -
DRAWN - B.K.	REVISED -
CHECKED - M.P.	REVISED -
DATE - MARCH 2009	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

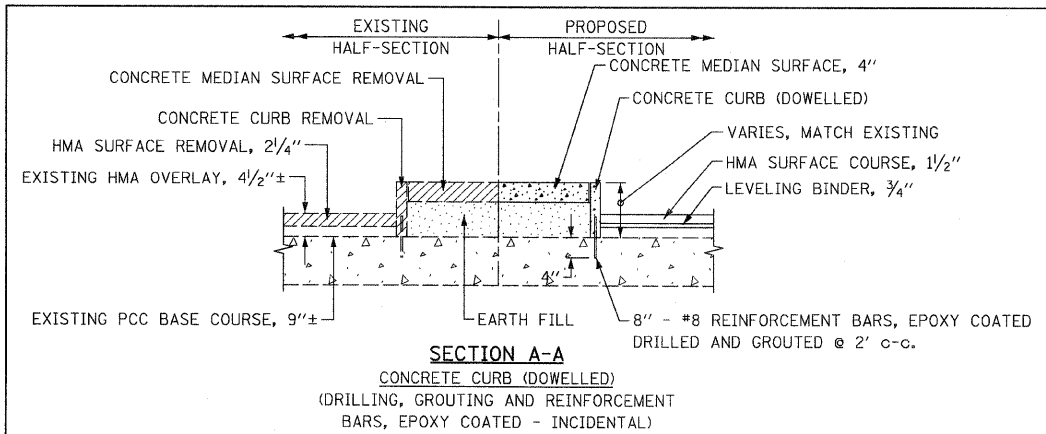
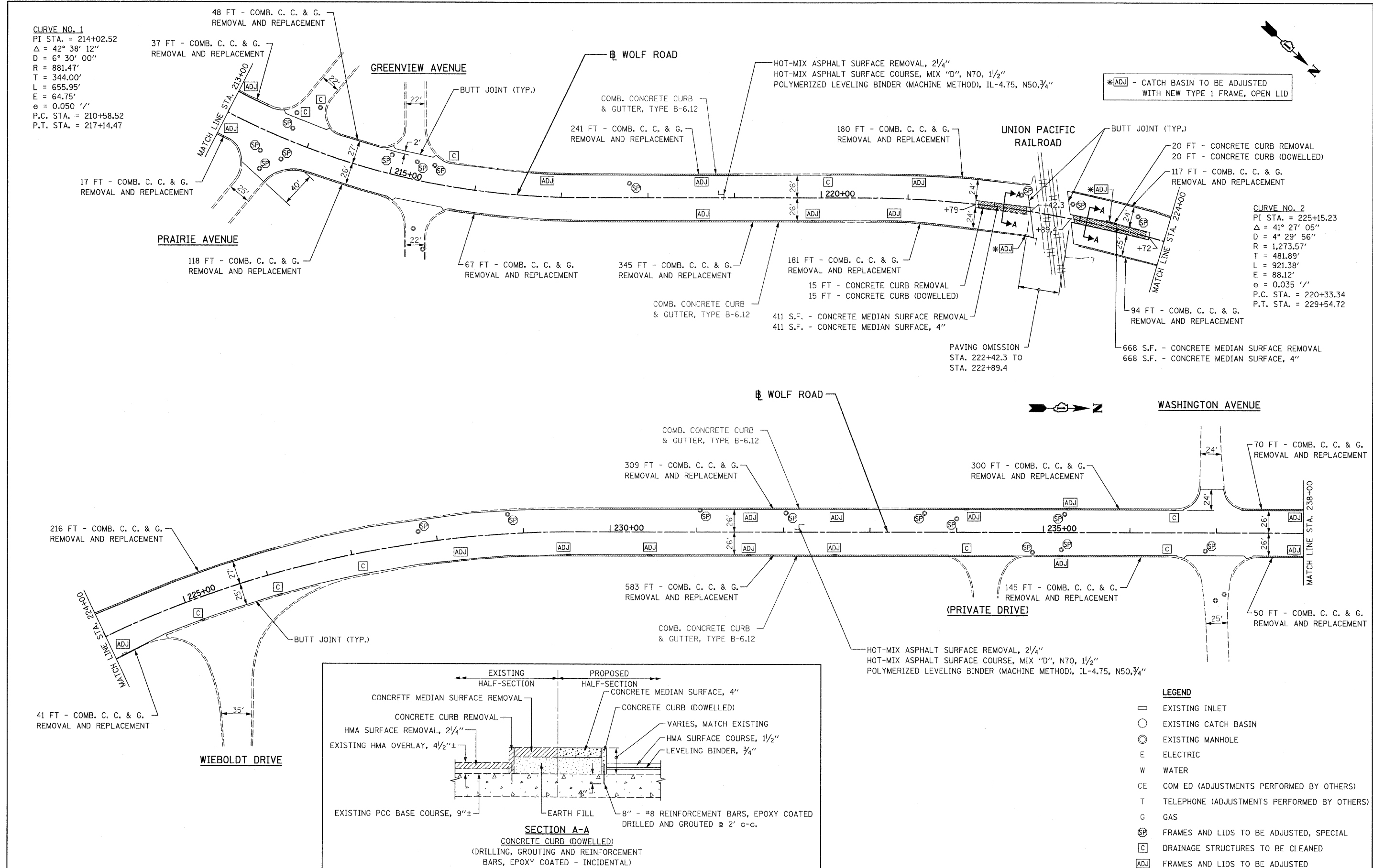
**ROADWAY PLAN**  
**WOLF ROAD ( IL 72 (TOUHY AVENUE) TO IL 58 (GOLF ROAD) )**

SCALE: 1" = 50'  
 SHEET NO. 4 OF 6 SHEETS  
 STA. 186+00 TO STA. 213+00

F.A.U. RTE. 2691	SECTION 3134 RS-3	COUNTY COOK	TOTAL SHEETS 33	SHEET NO. 9
CONTRACT NO. 60F49				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**CURVE NO. 1**  
 PI STA. = 214+02.52  
 $\Delta = 42^\circ 38' 12''$   
 $D = 6^\circ 30' 00''$   
 $R = 881.47'$   
 $T = 344.00'$   
 $L = 655.95'$   
 $E = 64.75'$   
 $e = 0.050' /'$   
 P.C. STA. = 210+58.52  
 P.T. STA. = 217+14.47

**CURVE NO. 2**  
 PI STA. = 225+15.23  
 $\Delta = 41^\circ 27' 05''$   
 $D = 4^\circ 29' 56''$   
 $R = 1,273.57'$   
 $T = 481.89'$   
 $L = 921.38'$   
 $E = 88.12'$   
 $e = 0.035' /'$   
 P.C. STA. = 220+33.34  
 P.T. STA. = 229+54.72



FILE NAME = 0168F49-shr-plot05.dgn  
 PLOT DATE = 3/30/2009

**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - G.F.L.	REVISED -
DRAWN - B.K.L.	REVISED -
CHECKED - M.P.	REVISED -
DATE - MARCH 2009	REVISED -

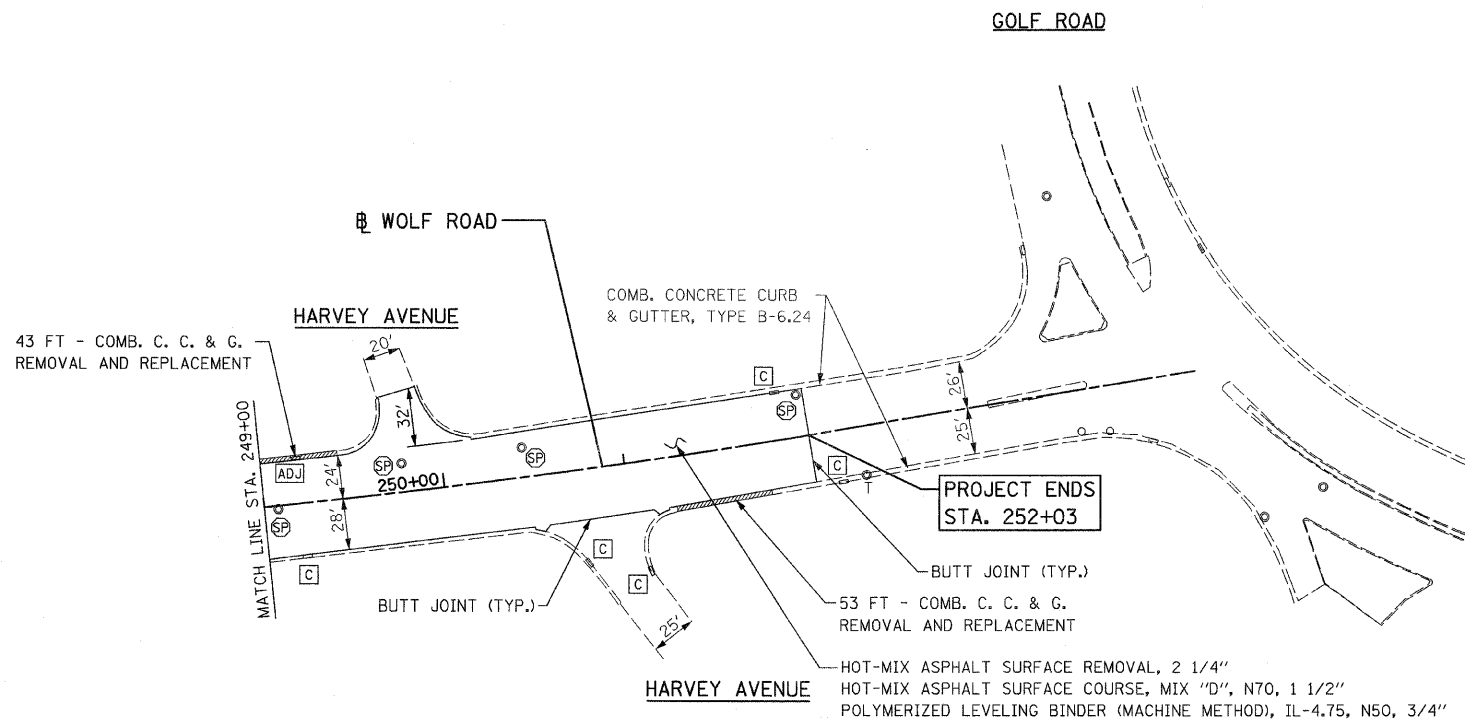
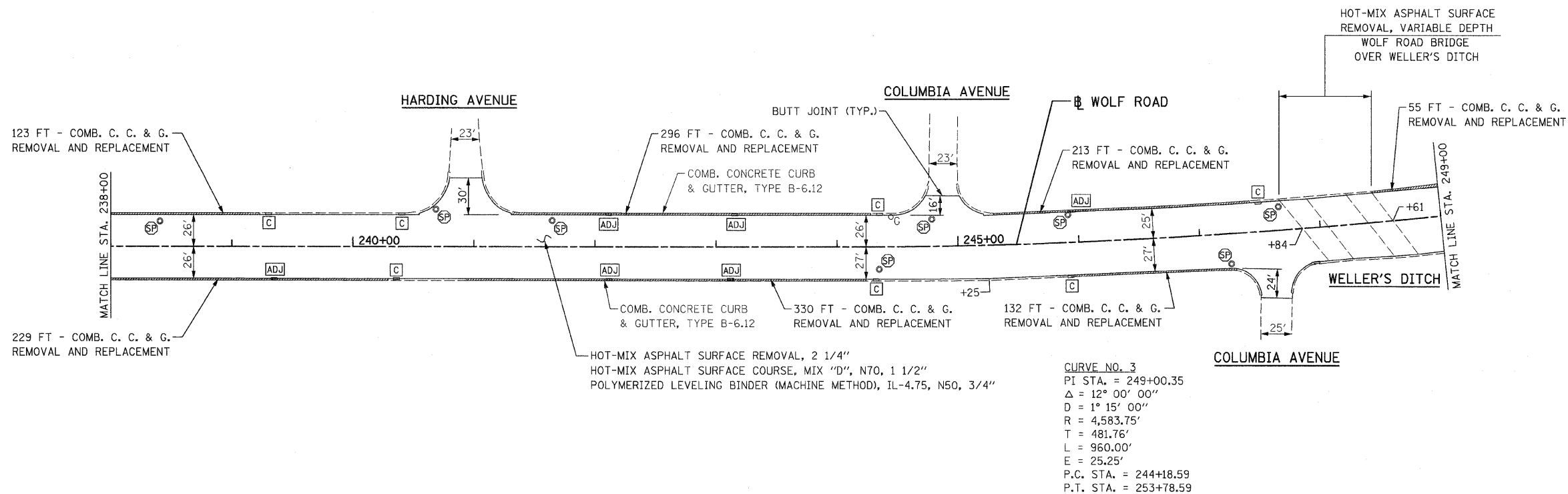
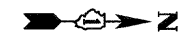
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN**  
**WOLF ROAD ( IL 72 (TOUHY AVENUE) TO IL 58 (GOLF ROAD) )**

SCALE: 1" = 50' SHEET NO. 5 OF 6 SHEETS STA. 213+00 TO STA. 243+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	NO.
2691	3134 RS-3	COOK	33	10
CONTRACT NO. 60F49				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



- LEGEND**
- EXISTING INLET
  - EXISTING CATCH BASIN
  - ⊙ EXISTING MANHOLE
  - E ELECTRIC
  - W WATER
  - CE COM ED (ADJUSTMENTS PERFORMED BY OTHERS)
  - T TELEPHONE (ADJUSTMENTS PERFORMED BY OTHERS)
  - G GAS
  - ⊕ SP FRAMES AND LIDS TO BE ADJUSTED, SPECIAL
  - C DRAINAGE STRUCTURES TO BE CLEANED
  - ADJ FRAMES AND LIDS TO BE ADJUSTED

FILE NAME = D:\6F49-shr-plan\6G.dgn  
 PLOT DATE = 3/30/2009

**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-5274

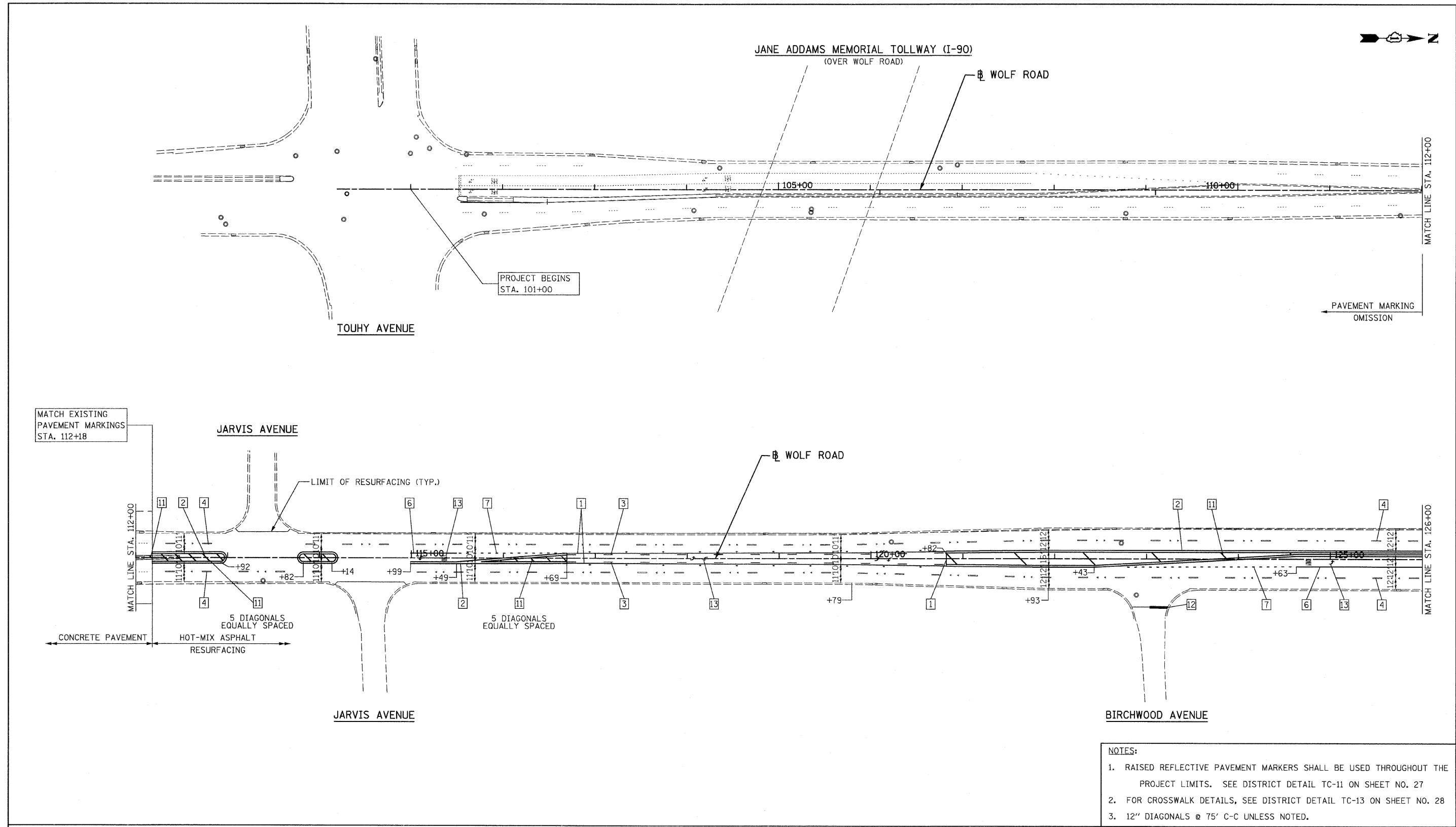
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DRAWN - B.K.	REVISED -
CHECKED - M.P.	REVISED -
DATE - MARCH 2009	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN**  
**WOLF ROAD ( IL. 72 (TOUHY AVENUE) TO IL. 58 (GOLF ROAD) )**

SCALE: 1" = 50' SHEET NO. 6 OF 6 SHEETS STA. 243+00 TO STA. 252+03

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2691	3134 RS-3	COOK	33	11
			CONTRACT NO. 60F49	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



MATCH EXISTING PAVEMENT MARKINGS STA. 112+18

MATCH LINE STA. 112+00

CONCRETE PAVEMENT  
HOT-MIX ASPHALT RESURFACING

JARVIS AVENUE

JARVIS AVENUE

LIMIT OF RESURFACING (TYP.)

WOLF ROAD

BIRCHWOOD AVENUE

MATCH LINE STA. 112+00

MATCH LINE STA. 126+00

- NOTES:**
1. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL TC-11 ON SHEET NO. 27
  2. FOR CROSSWALK DETAILS, SEE DISTRICT DETAIL TC-13 ON SHEET NO. 28
  3. 12" DIAGONALS @ 75' C-C UNLESS NOTED.

**LEGEND**

- |  |   |   |
|--|---|---|
| 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)               | 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)                   | 10 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE)  |
| 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINES)       | 7 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP) | 11 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE) |
| 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW - 10' DASH, 30' SKIP)     | 8 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)                   | 12 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR)       |
| 4 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30') | 9 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)                  | 13 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)      |
| 5 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID LINE)                |   |   |

FILE NAME = D168F49-shr-pmk01.dgn  
PLOT DATE = 3/30/2009

**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
ENGINEERS-PLANNERS-SURVEYORS  
211 WEST WACKER DRIVE  
CHICAGO, ILLINOIS 60606  
PHONE: (312)372-2023 FAX: (312)372-5274

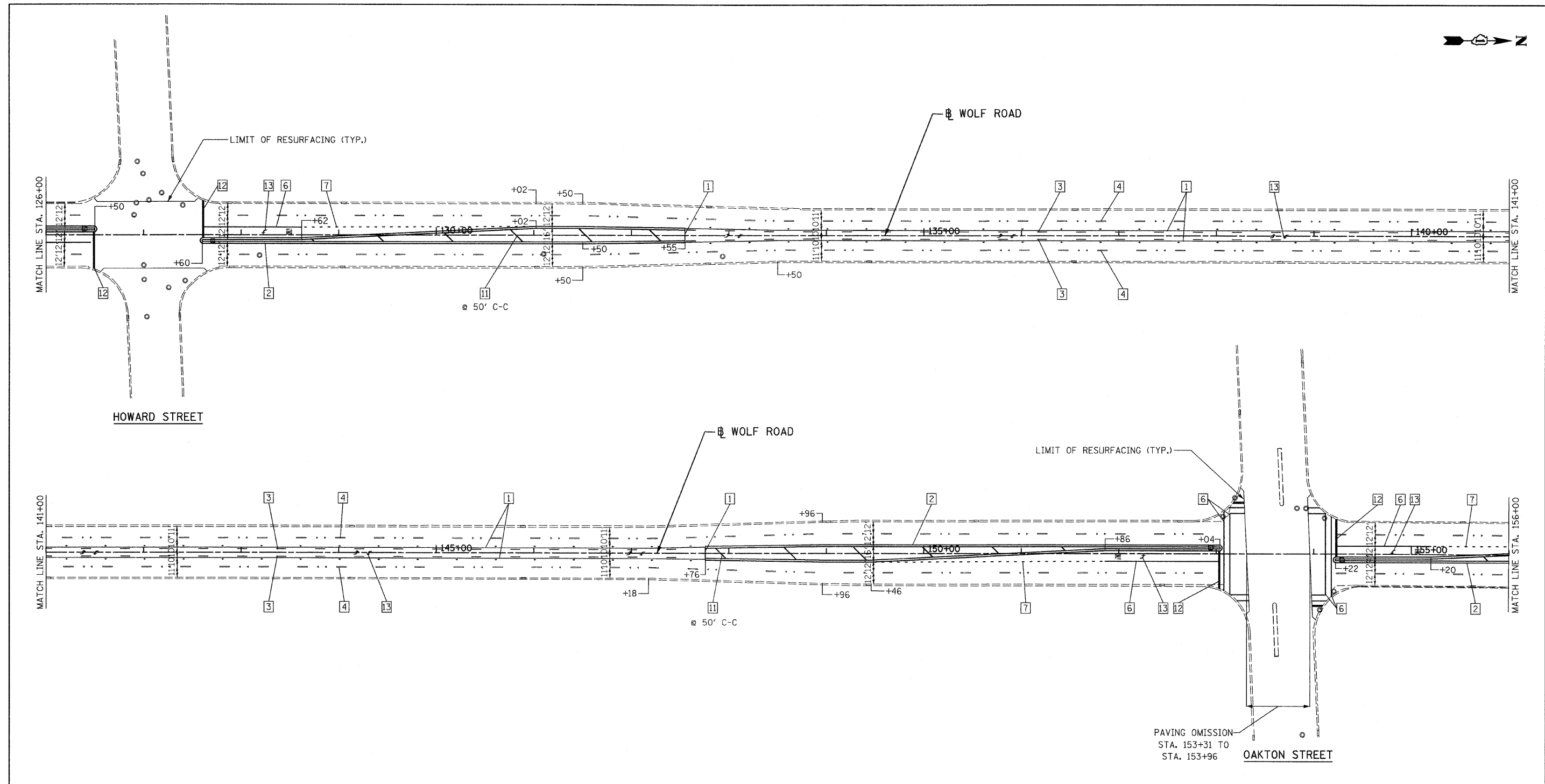
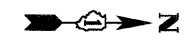
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DRAWN - J.V.	REVISED -
CHECKED - M.P.	REVISED -
DATE - MARCH 2009	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
WOLF ROAD ( IL 72 (TOUHY AVENUE) TO IL 58 (GOLF ROAD) )**

SCALE: 1" = 50' SHEET NO. 1 OF 6 SHEETS STA. 101+00 TO STA. 252+03

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2691	3134 RS-3	COOK	33	12
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 60F49	



- NOTES:**
1. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL TC-11 ON SHEET NO. 27
  2. FOR CROSSWALK DETAILS, SEE DISTRICT DETAIL TC-13 ON SHEET NO. 28
  3. 12" DIAGONALS @ 75' C-C UNLESS NOTED.

LEGEND	
1	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)
2	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINES)
3	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW - 10' DASH, 30' SKIP)
4	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30')
5	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID LINE)
6	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)
7	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)
8	THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)
9	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)
10	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE)
11	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE)
12	THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR)
13	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)

FILE NAME = D168F49-sht-pmk02.dgn  
 PLOT DATE = 3/30/2009

**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-5274

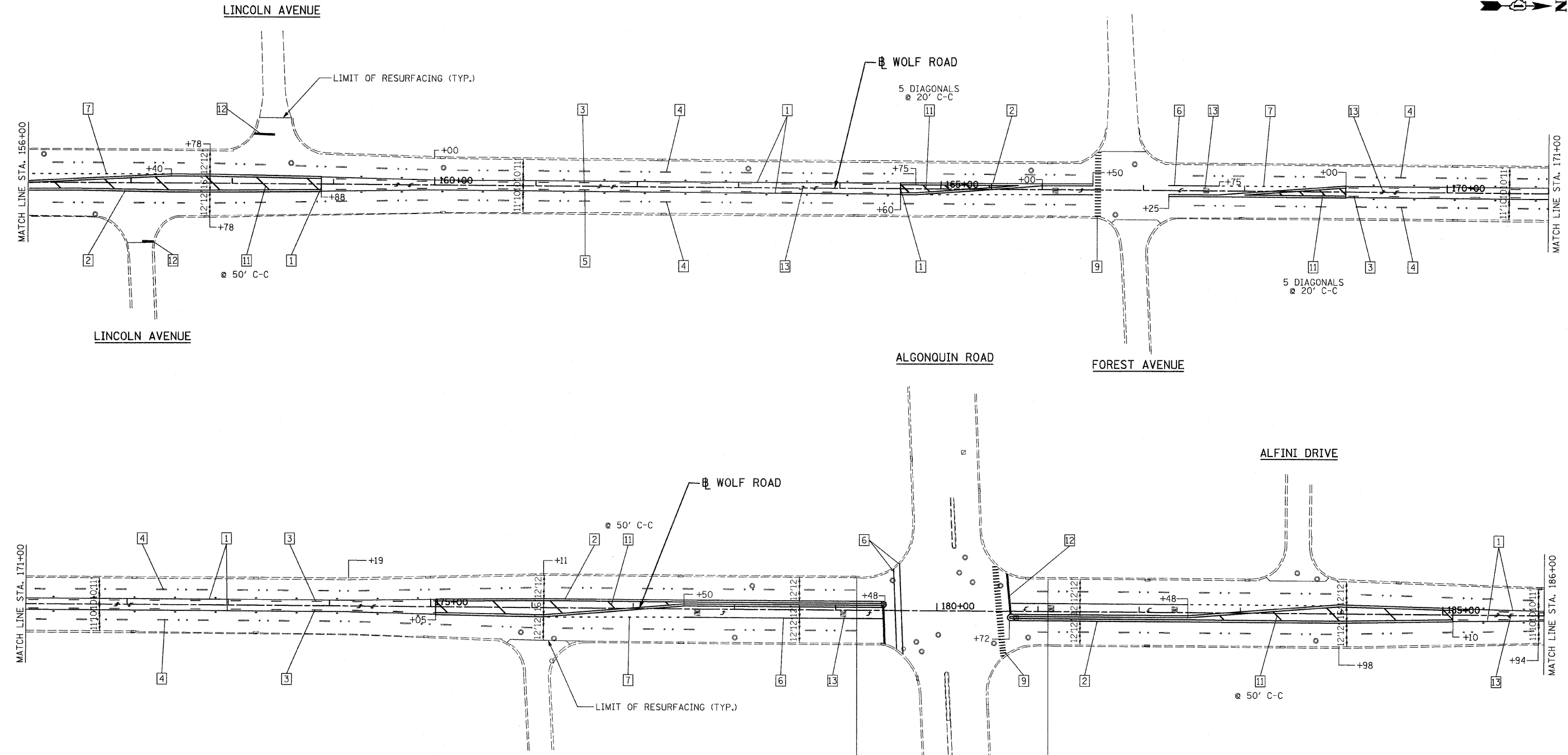
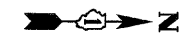
DESIGNED - G.F.L.	REVISED -
DRAWN - J.V.	REVISED -
CHECKED - M.P.	REVISED -
DATE - MARCH 2009	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
 WOLF ROAD ( IL. 72 (TOUHY AVENUE) TO IL. 58 (GOLF ROAD) )**

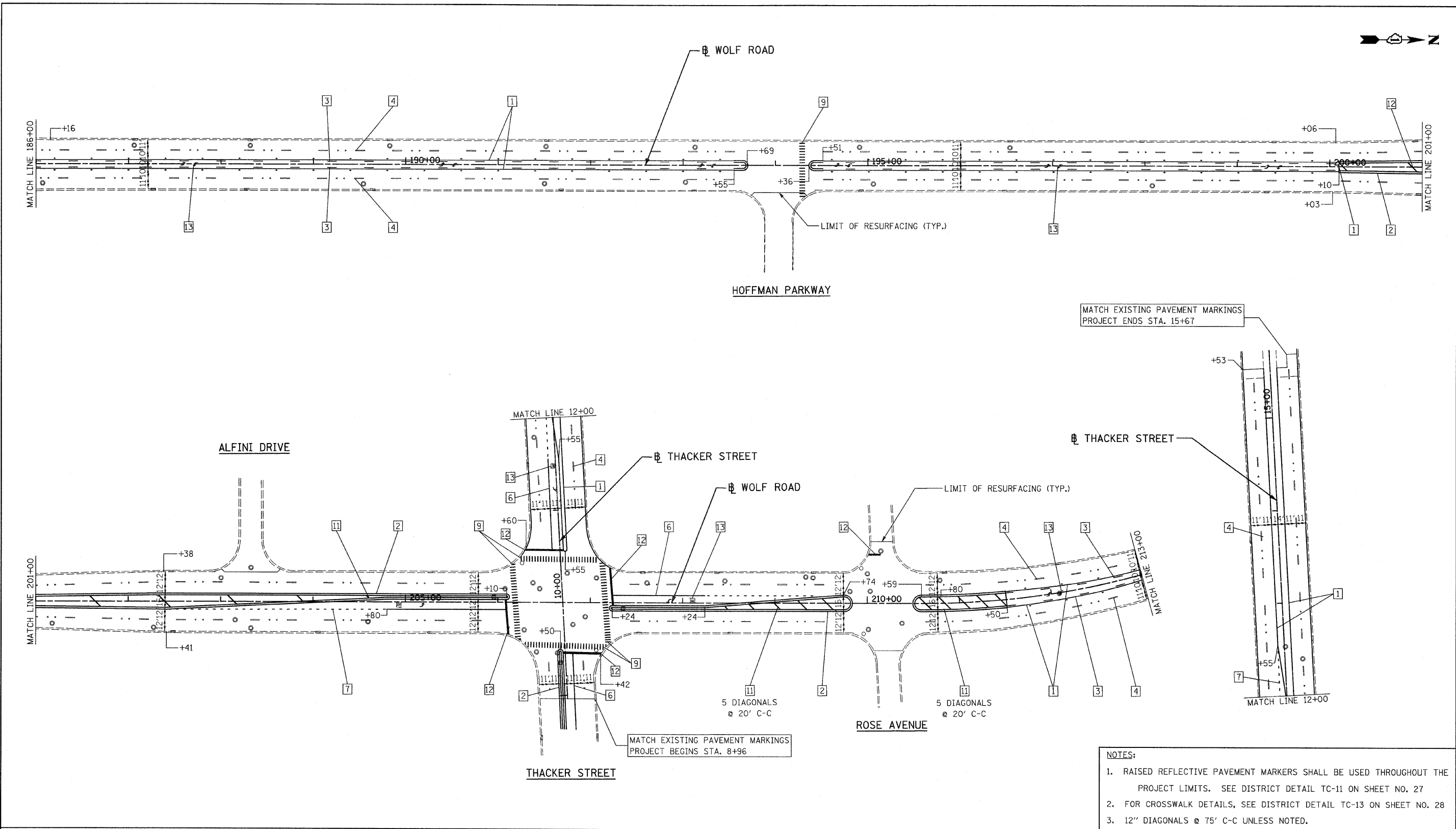
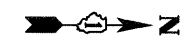
SCALE: 1" = 50' SHEET NO. 2 OF 6 SHEETS STA. 126+00 TO STA. 156+00

F.A.U. RTE. 2691	SECTION 3134 RS-3	COUNTY COOK	TOTAL SHEETS 33	SHEET NO. 13
CONTRACT NO. 60F49				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- NOTES:**
1. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL TC-11 ON SHEET NO. 27
  2. FOR CROSSWALK DETAILS, SEE DISTRICT DETAIL TC-13 ON SHEET NO. 28
  3. 12" DIAGONALS @ 75' C-C UNLESS NOTED.

<p><b>LEGEND</b></p> <p>1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)</p> <p>2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINES)</p> <p>3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW - 10' DASH, 30' SKIP)</p> <p>4 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30')</p> <p>5 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID LINE)</p>	<p>6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)</p> <p>7 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)</p> <p>8 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)</p> <p>9 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)</p>	<p>10 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE)</p> <p>11 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE)</p> <p>12 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR)</p> <p>13 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)</p>	<p><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p> <p><b>PAVEMENT MARKING PLAN</b> <b>WOLF ROAD ( IL 72 (TOUHY AVENUE) TO IL 58 (GOLF ROAD) )</b></p> <p>SCALE: 1" = 50'    SHEET NO. 3 OF 6 SHEETS    STA. 156+00 TO STA. 186+00</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>F.A.I. RTE.</td> <td>SECTION</td> <td>COUNTY</td> <td>TOTAL SHEETS NO.</td> </tr> <tr> <td>2691</td> <td>3134 RS-3</td> <td>COOK</td> <td>33 14</td> </tr> <tr> <td colspan="3"></td> <td>CONTRACT NO. 60F49</td> </tr> </table> <p>FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT</p>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	2691	3134 RS-3	COOK	33 14				CONTRACT NO. 60F49
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.													
2691	3134 RS-3	COOK	33 14													
			CONTRACT NO. 60F49													
<p>FILE NAME = D168F49-shr-pmk03.dgn PLOT DATE = 3/30/2009</p>	<p><b>CHRISTIAN-ROGE &amp; ASSOCIATES, INC.</b> ENGINEERS-PLANNERS-SURVEYORS 211 WEST WACKER DRIVE CHICAGO, ILLINOIS 60606 PHONE: (312)372-2023 FAX: (312)372-5274</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DESIGNED - G.F.L.</td> <td>REVISED -</td> </tr> <tr> <td>DRAWN - J.V.</td> <td>REVISED -</td> </tr> <tr> <td>CHECKED - M.P.</td> <td>REVISED -</td> </tr> <tr> <td>DATE - MARCH 2009</td> <td>REVISED -</td> </tr> </table>	DESIGNED - G.F.L.	REVISED -	DRAWN - J.V.	REVISED -	CHECKED - M.P.	REVISED -	DATE - MARCH 2009	REVISED -						
DESIGNED - G.F.L.	REVISED -															
DRAWN - J.V.	REVISED -															
CHECKED - M.P.	REVISED -															
DATE - MARCH 2009	REVISED -															



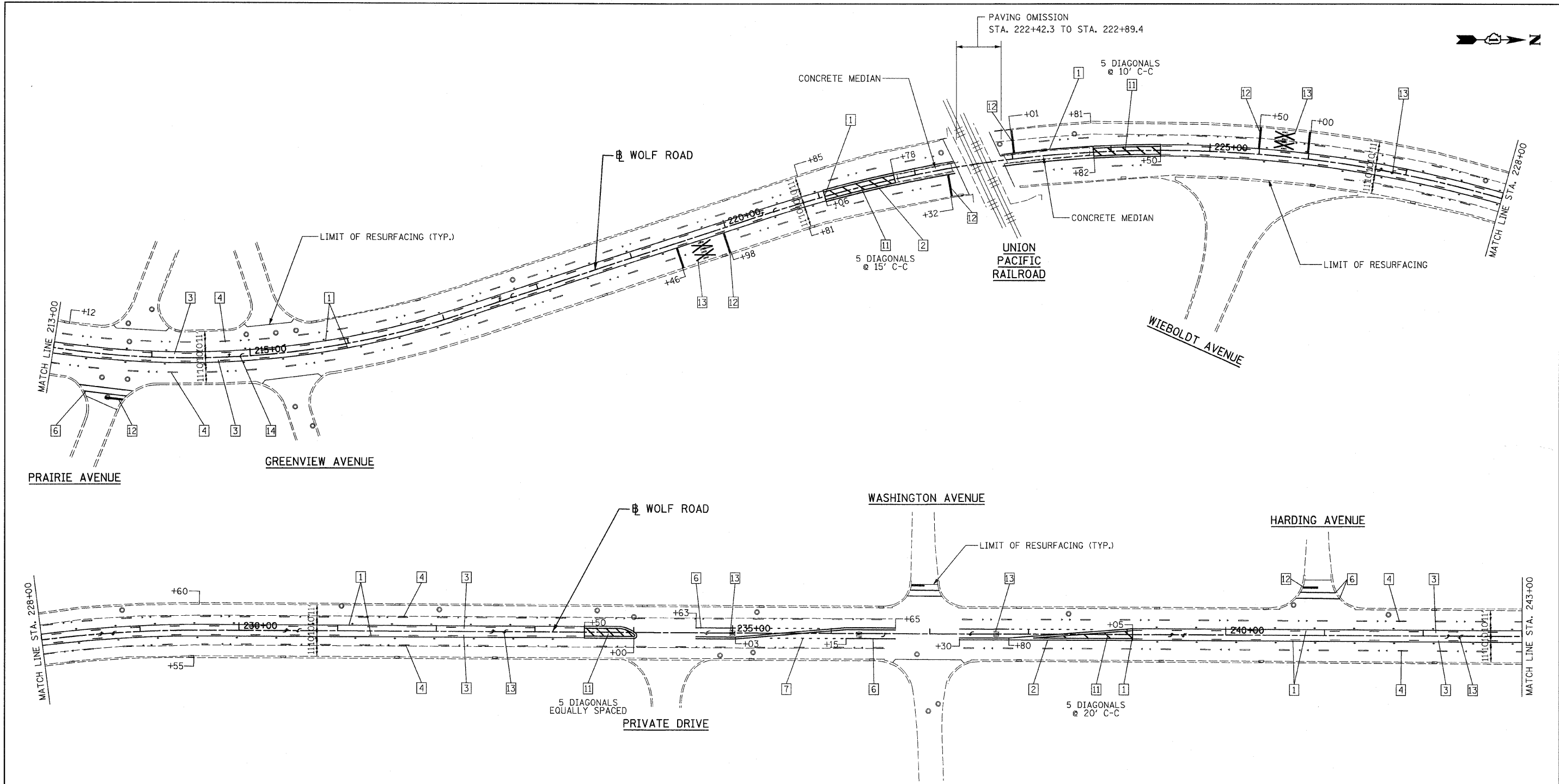
MATCH EXISTING PAVEMENT MARKINGS  
PROJECT ENDS STA. 15+67

MATCH EXISTING PAVEMENT MARKINGS  
PROJECT BEGINS STA. 8+96

- NOTES:**
1. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL TC-11 ON SHEET NO. 27
  2. FOR CROSSWALK DETAILS, SEE DISTRICT DETAIL TC-13 ON SHEET NO. 28
  3. 12" DIAGONALS @ 75' C-C UNLESS NOTED.

LEGEND		DESIGNED - G.F.L.		REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PAVEMENT MARKING PLAN WOLF ROAD ( IL. 72 (TOUHY AVENUE) TO IL. 58 (GOLF ROAD) )		F.A.U. RTE. 2691		SECTION 3134 RS-3		COUNTY COOK		TOTAL SHEETS 33		SHEET NO. 15	
1	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)	DRAWN - J.V.	REVISIONS	1	2	SCALE: 1" = 50'	SHEET NO. 4 OF 6 SHEETS	STA. 186+00	TO STA. 213+00	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									
2	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINES)	CHECKED - M.P.	DATE - MARCH 2009	3	4														
3	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW - 10' DASH, 30' SKIP)	DATE - MARCH 2009	REVISIONS	5	6														
4	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30')	DATE - MARCH 2009	REVISIONS	7	8														
5	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID LINE)	DATE - MARCH 2009	REVISIONS	9	10														
6	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)	DATE - MARCH 2009	REVISIONS	11	12														
7	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)	DATE - MARCH 2009	REVISIONS	13	14														
8	THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)	DATE - MARCH 2009	REVISIONS	15	16														
9	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)	DATE - MARCH 2009	REVISIONS	17	18														
10	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE)	DATE - MARCH 2009	REVISIONS	19	20														
11	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE)	DATE - MARCH 2009	REVISIONS	21	22														
12	THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR)	DATE - MARCH 2009	REVISIONS	23	24														
13	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)	DATE - MARCH 2009	REVISIONS	25	26														

FILE NAME = D:\60F49-shr-pmk04.dgn  
 PLOT DATE = 3/30/2009  
**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-5274



**NOTES:**

1. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL TC-11 ON SHEET NO. 27
2. FOR CROSSWALK DETAILS, SEE DISTRICT DETAIL TC-13 ON SHEET NO. 28
3. 12" DIAGONALS @ 75' C-C UNLESS NOTED.

LEGEND			
1	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)	10	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE)
2	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINES)	11	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE)
3	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW - 10' DASH, 30' SKIP)	12	THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR)
4	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30')	13	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)
5	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID LINE)		
6	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)		
7	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)		
8	THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)		
9	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)		

FILE NAME = D168F49-ahk-pmk05.dgn  
PLOT DATE = 3/30/2009



**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
ENGINEERS-PLANNERS-SURVEYORS  
211 WEST WACKER DRIVE  
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PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - G.F.L.	REVISED -
DRAWN - J.V.	REVISED -
CHECKED - M.P.	REVISED -
DATE - MARCH 2009	REVISED -

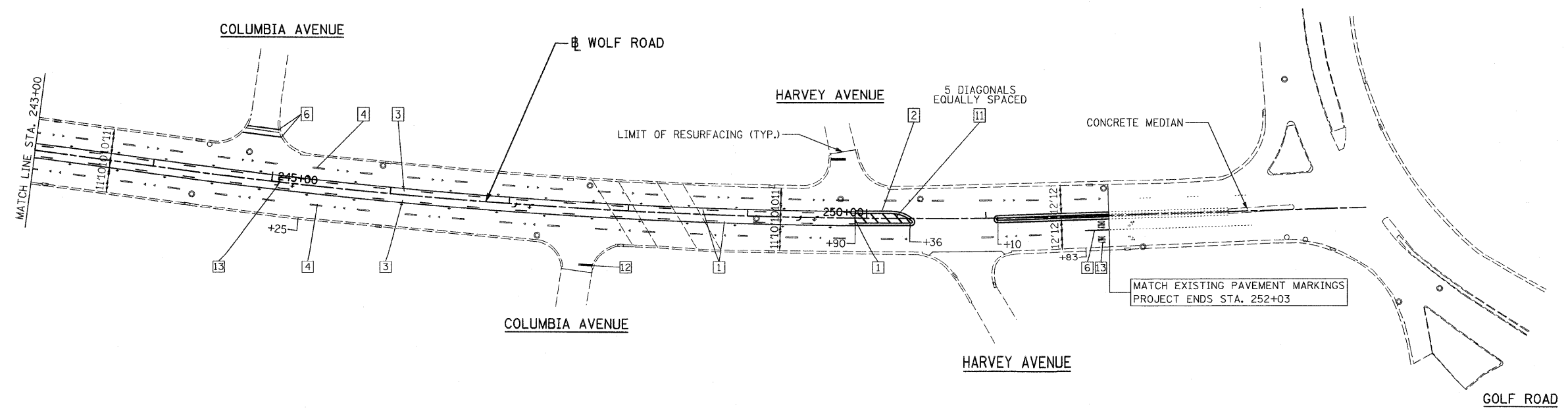
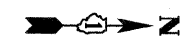
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN**  
**WOLF ROAD ( IL 72 (TOUHY AVENUE) TO IL 58 (GOLF ROAD) )**

SCALE: 1" = 50' SHEET NO. 5 OF 6 SHEETS STA. 213+00 TO STA. 243+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2691	3134 RS-3	COOK	33	16
CONTRACT NO. 60F49				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				





- NOTES:**
1. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL TC-11 ON SHEET NO. 27
  2. FOR CROSSWALK DETAILS, SEE DISTRICT DETAIL TC-13 ON SHEET NO. 28
  3. 12" DIAGONALS @ 75' C-C UNLESS NOTED.

LEGEND					
1	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)	6	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)	10	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONAL LINE)
2	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINES)	7	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)	11	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE)
3	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW - 10' DASH, 30' SKIP)	8	THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)	12	THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR)
4	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30')	9	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)	13	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)
5	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID LINE)				

FILE NAME = D168F49-shl-pmk06.dgn  
 PLOT DATE = 3/30/2009



**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - G.F.L.	REVISED -
DRAWN - J.V.	REVISED -
CHECKED - M.P.	REVISED -
DATE - MARCH 2009	REVISED -

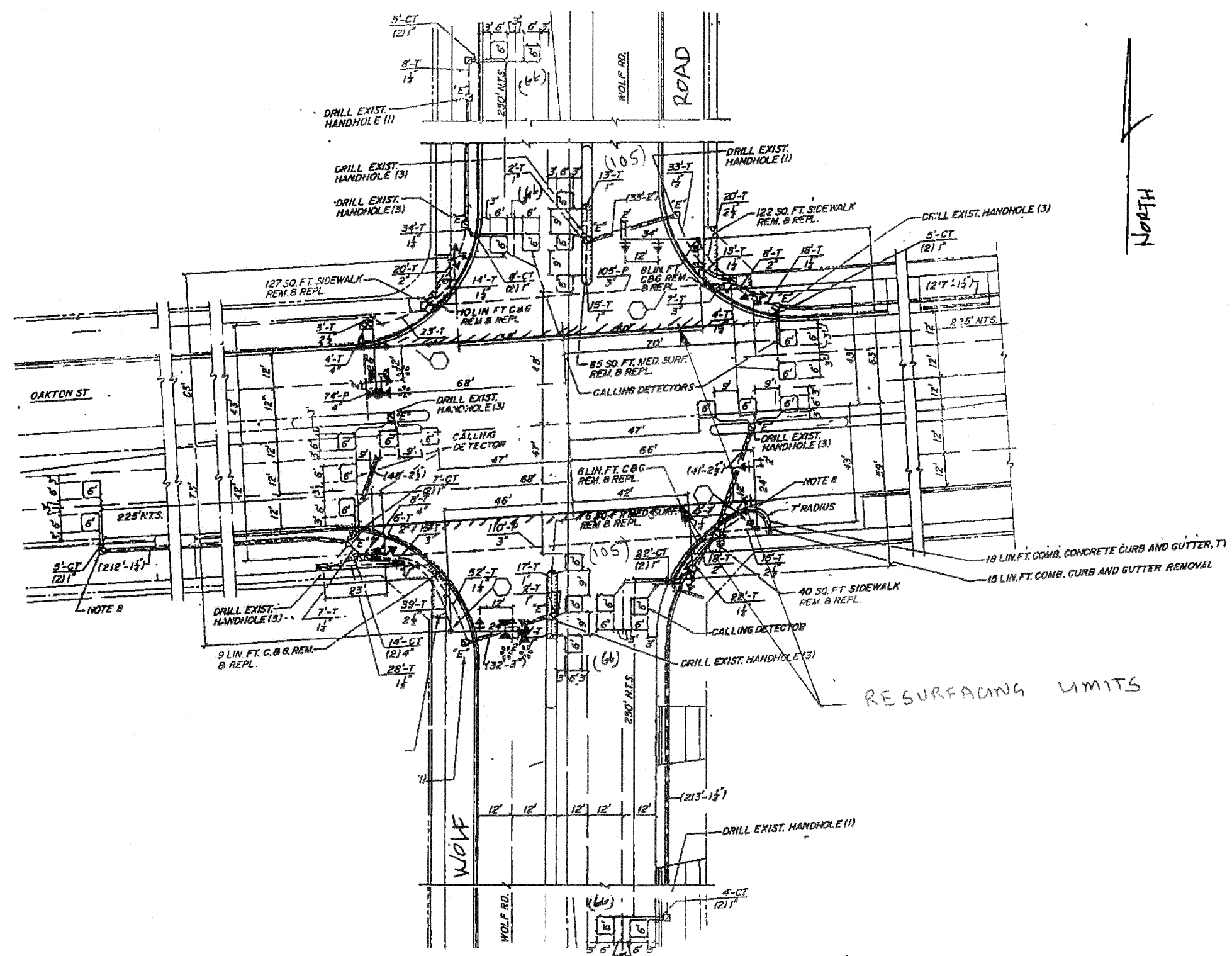
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN**  
**WOLF ROAD ( IL. 72 (TOUHY AVENUE) TO IL. 58 (GOLF ROAD) )**  
 SCALE: 1" = 50' SHEET NO. 6 OF 6 SHEETS STA. 243+00 TO STA. 252+03

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2691	3134 RS-3	COOK	33	17
CONTRACT NO. 60F49				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3134 RS-3	COOK	33	19
STA. TO STA.		PFD AND PROJECT	
2691		CONTRACT NO. 60F49	



- TRAFFIC SIGNAL LEGEND**
- ⊕ SERVICE INSTALLATION
  - ⊞ CONTROLLER
  - ⊞ DOUBLE HANDHOLE
  - N.T.S. NOT TO SCALE
  - SIGNAL HEAD
  - SIGNAL HEAD WITH BACKPLATE
  - MAST ARM ASSEMBLY AND POLE, STEEL
  - SIGNAL POST
  - DETECTOR LOOP
  - G.S. CONDUIT IN TRENCH OR PUSHED
  - ⊕ PEDESTRIAN SIGNAL HEAD
  - PEDESTRIAN PUSHBUTTON
  - ⊞ HANDHOLE
  - CT COMMON TRENCH
  - U○ UTILITY CO. POLE
  - R.O.W. RIGHT OF WAY
  - ⊞ EXISTING HANDHOLE
  - EXISTING G.S. CONDUIT
  - ⊞ EXISTING RELOCATED SIGN PANEL
  - ⊞ Emergency Vehicle Light Detector
  - ⊞ CONFIRMATION BEACON

**REPLACE ALL DETECTOR LOOPS AS SHOWN**

(WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
86600600	474	Foot	Detector Loop Replacement

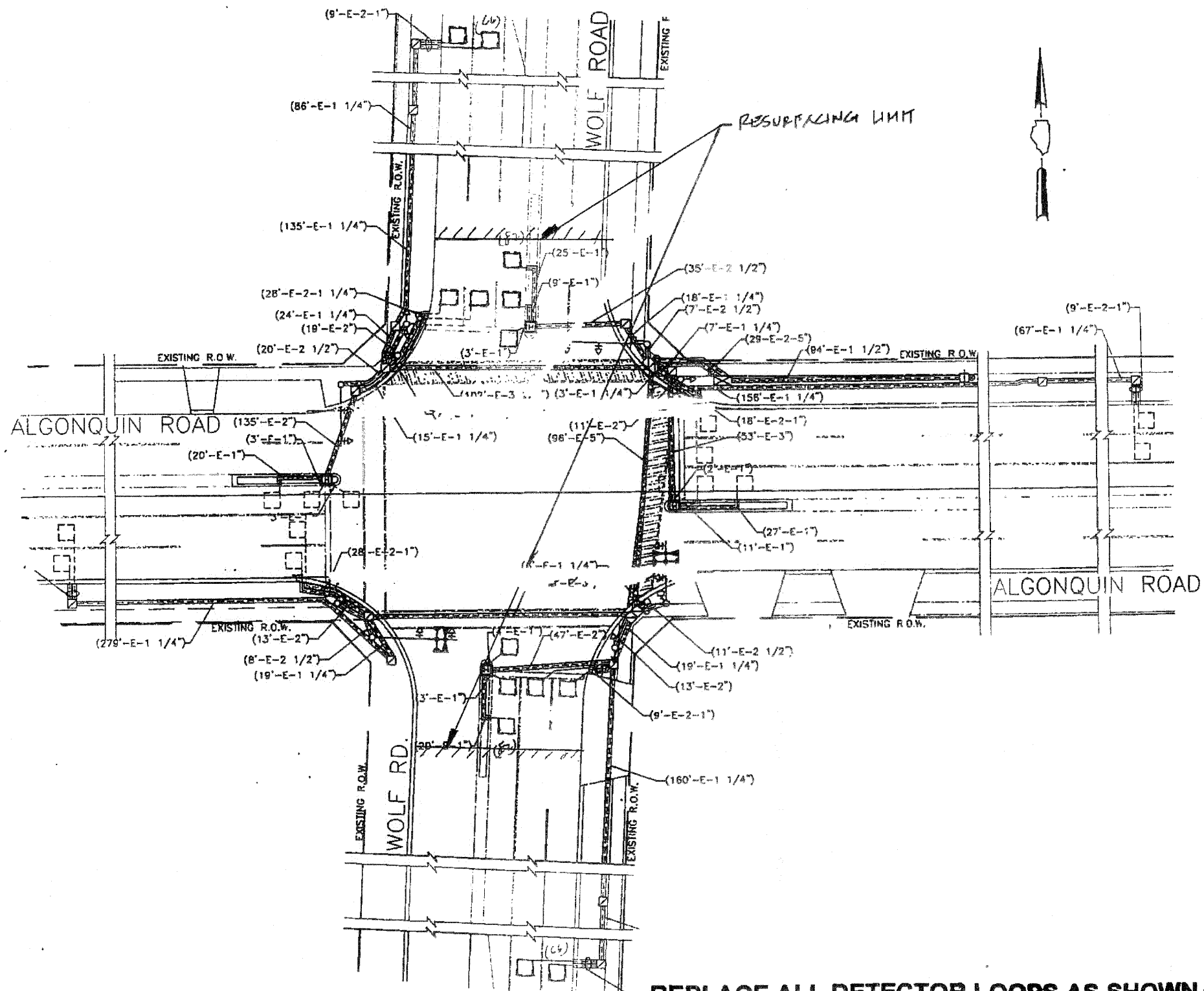
REVISIONS	
NAME	DATE

**NOTE:**  
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DETECTOR LOOP REPLACEMENT**  
WOLF ROAD @ OAKTON STREET  
SCALE: NONE  
DATE: NOV. 2008  
DRAWN BY: JHE  
DESIGNED BY: JHE  
CHECKED BY: DAD

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3134 RS-3	Cook	33	20
STA.	TO STA.		
FED. ROAD DIST NO. 7	ALIGNMENT	PER AID PROJECT	

CONTRACT NO. 60F49



**TRAFFIC SIGNAL LEGEND**

	EXISTING	PROPOSED
CONTROLLER	☒	☒
SERVICE INSTALLATION	☐	☐
SIGNAL HEAD	⊕	⊕
SIGNAL HEAD WITH BACKPLATE	⊕	⊕
SIGNAL HEAD, PEDESTRIAN	⊕	⊕
SIGNAL POST	○	○
MAST ARM ASSEMBLY AND POLE, STEEL	⊕	⊕
MAST ARM ASSEMBLY AND POLE, ALUMINUM	⊕	⊕
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	⊕	⊕
COMMON TRENCH	—	—
UNIT DUCT	—	—
HANDHOLE	☐	☐
HEAVY DUTY HANDHOLE	☐	☐
DOUBLE HANDHOLE	☐	☐
G.S. CONDUIT IN TRENCH OR PUSHED	—	—
PEDESTRIAN PUSHBUTTON DETECTOR	○	○
DETECTOR LOOP	○	○

**NOTE:**  
 THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

**REPLACE ALL DETECTOR LOOPS AS SHOWN**  
 (WITHIN THE RESURFACING LIMITS)

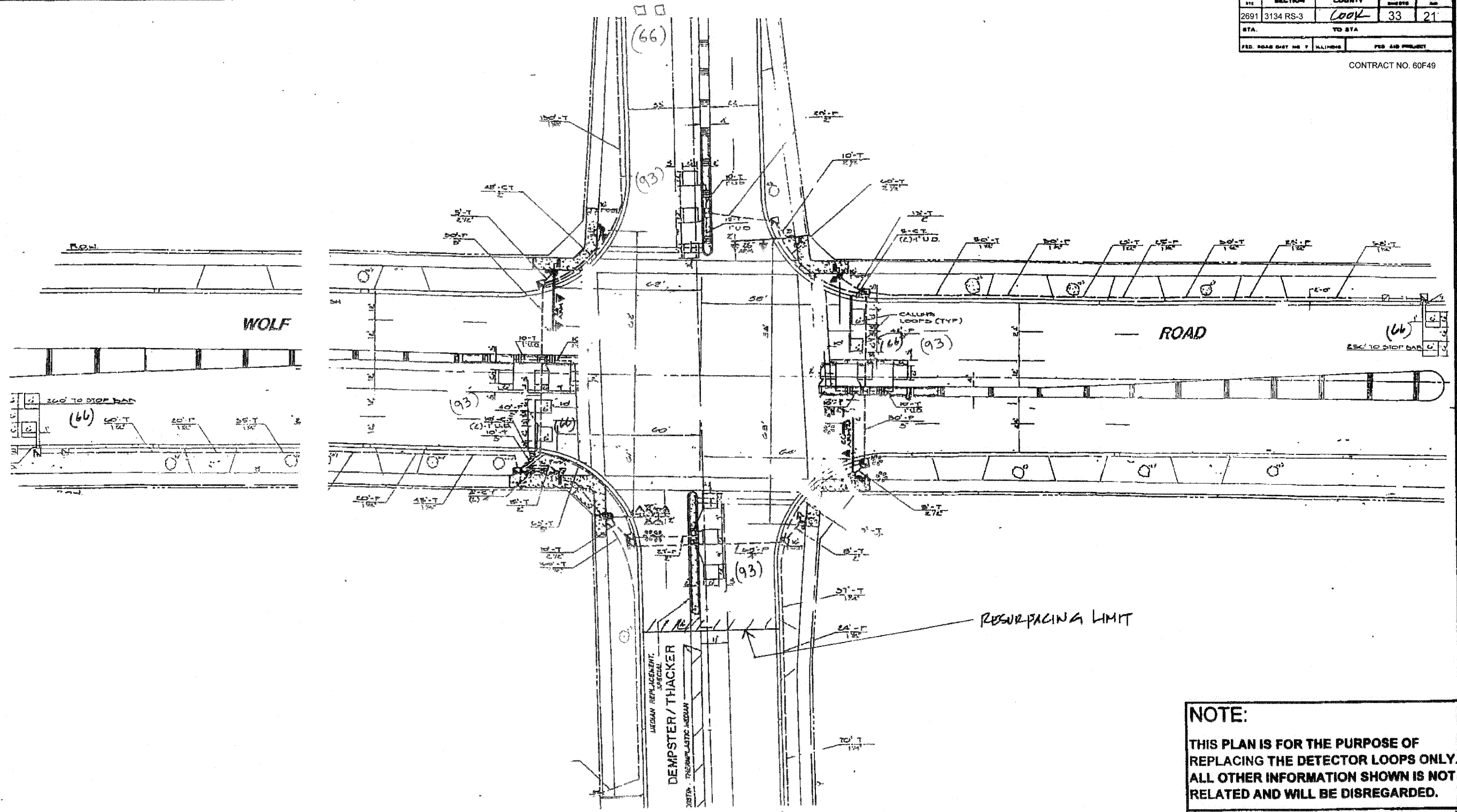
CODE NO.	QUANTITY	UNIT	ITEM
86600600	132	Foot	Detector Loop Replacement

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DETECTOR LOOP REPLACEMENT**  
 WOLF ROAD @ ALGONQUIN RD.  
 SCALE: NONE  
 DATE: Nov. 2008  
 DRAWN BY: JFE  
 DESIGNED BY: JFE  
 CHECKED BY: DAD

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3134 RS-3	COOK	33	21
STA. TO STA.		FED. AID PROJECT	

CONTRACT NO. 60F49



**REPLACE ALL DETECTOR LOOPS AS SHOWN**

(WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
80600600	702	Foot	Detector Loop Replacement

**NOTE:**  
THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

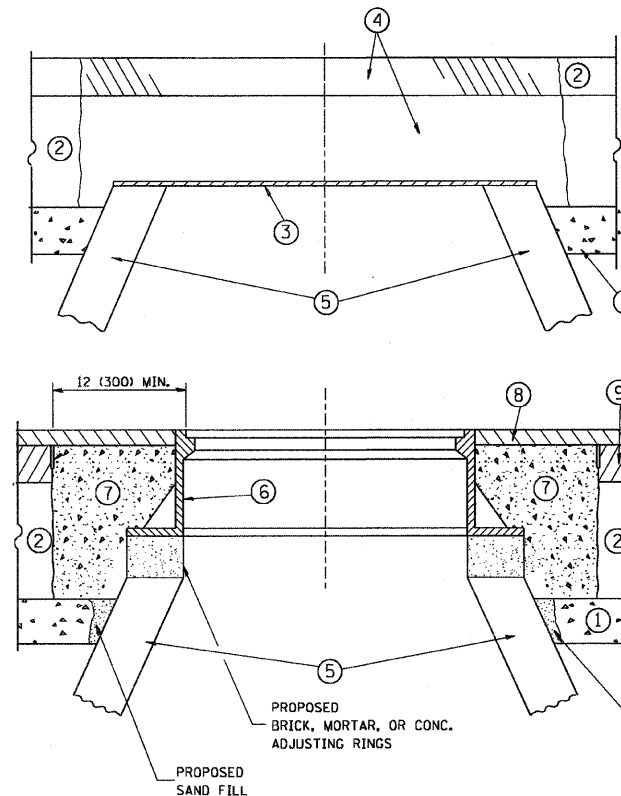
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DETECTOR LOOP REPLACEMENT**

WOLF RD. @ THACKER STREET

SCALE: NONE  
DATE: Nov. 2008

DRAWN BY: JHE  
DESIGNED BY: JHE  
CHECKED BY: DAD

REVISIONS	
NAME	DATE



**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

**STAGE 2 (AFTER PAVEMENT MILLING)**

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

**LEGEND**

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

**LOCATION OF STRUCTURES:**

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

**BASIS OF PAYMENT:** THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL" NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

**NOTES:**

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

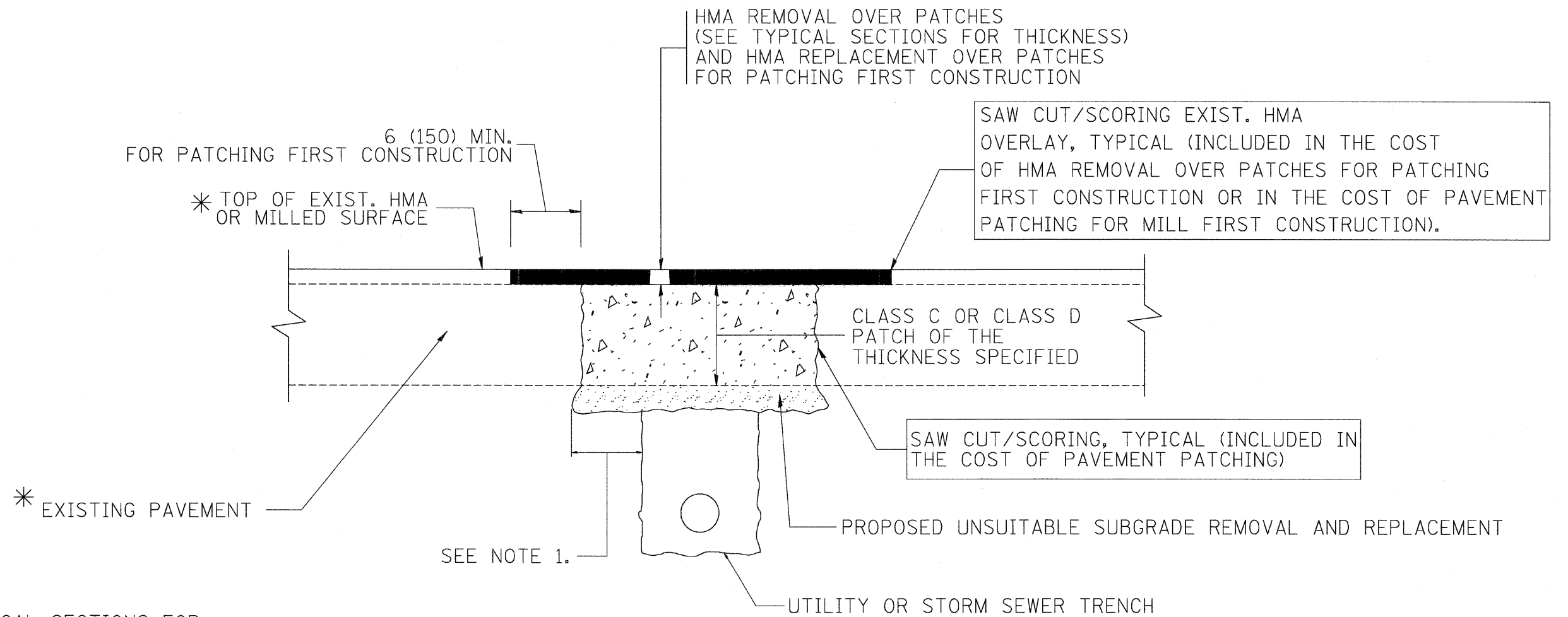
THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = W:\diststd\22x34\bd88.dgn	USER NAME = geglienobt	DESIGNED - R. SHAH	REVISED - R. SHAH 03-10-95	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING</b>	F.A.U. RTE. 2691	SECTION 3134 RS-3	COUNTY COOK	TOTAL SHEETS 33	SHEET NO. 22	
	PLOT SCALE = 68.0000' / IN.	CHECKED -	REVISED - A. ABBAS 03-21-97			SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.					
	PLOT DATE = 1/4/2008	DATE - 10-25-94	REVISED - R. WIEDEMAN 05-14-04			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
			REVISED - R. BORO 01-01-07			<b>BD600-03 (BD-8) CONTRACT NO. 60F49</b>					



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

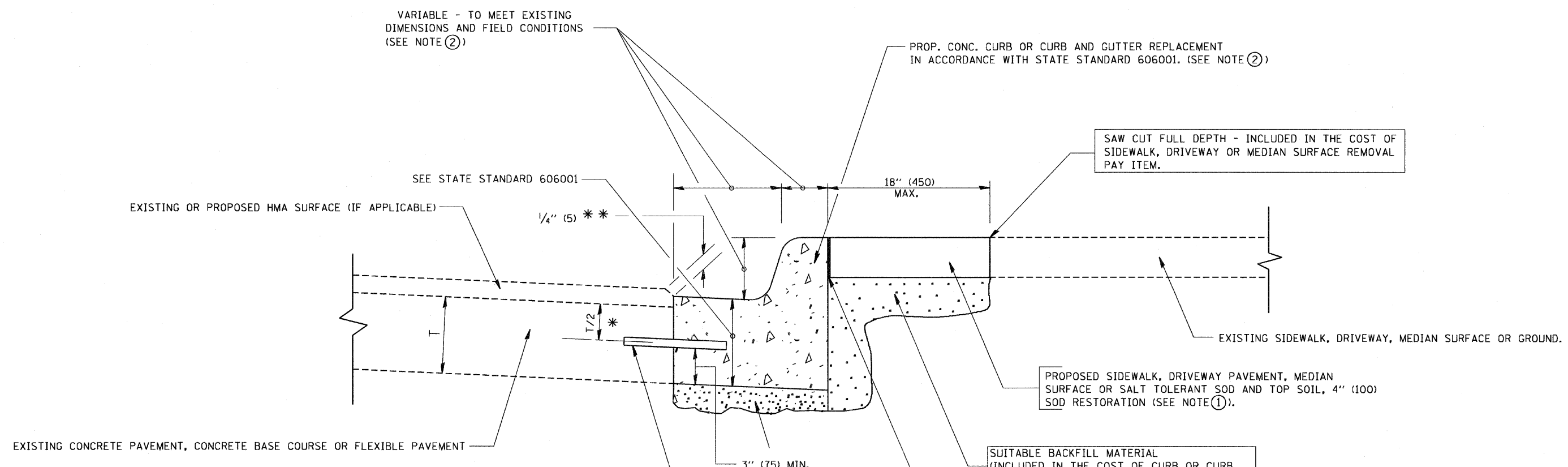
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>			F.A.U. RTE 2691	SECTION 3134 RS-3	COUNTY COOK	TOTAL SHEETS 33	SHEET NO. 23
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA.	TO STA.	<b>BD400-04 (BD-22)</b>		
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT							
CONTRACT NO. 60F49												



- \* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- \*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

- ② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- ④ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑤ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑥ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- ⑦ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE 3).

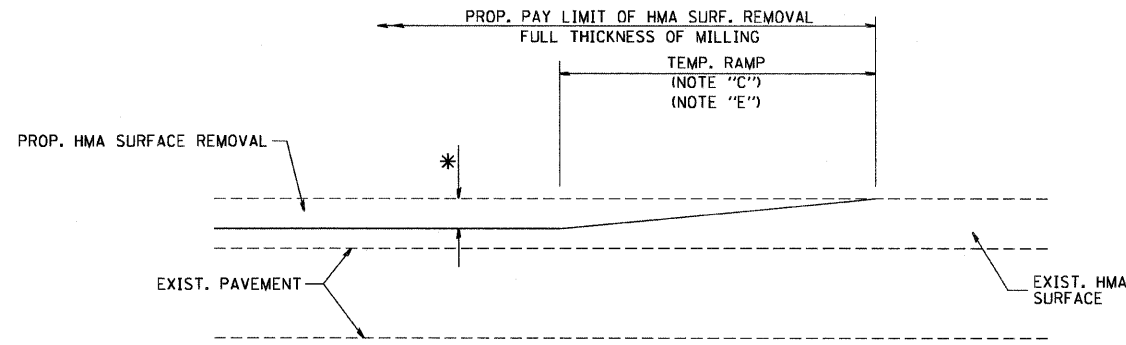
**BASIS OF PAYMENT:**  
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

## CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

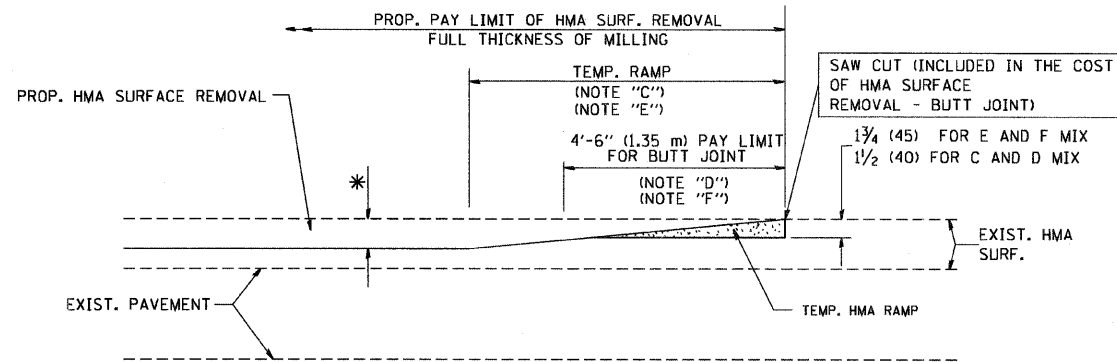
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PLOT SCALE = 50.000' / IN.	CHECKED -	DATE - 03-11-94	REVISED - A. ABBAS 03-21-97			<b>BD600-06 (BD-24)</b>		CONTRACT NO. 60F49		
PLOT DATE = 1/4/2008			REVISED - M. GOMEZ 01-22-01		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	
			REVISED - R. BORO 01-01-07							





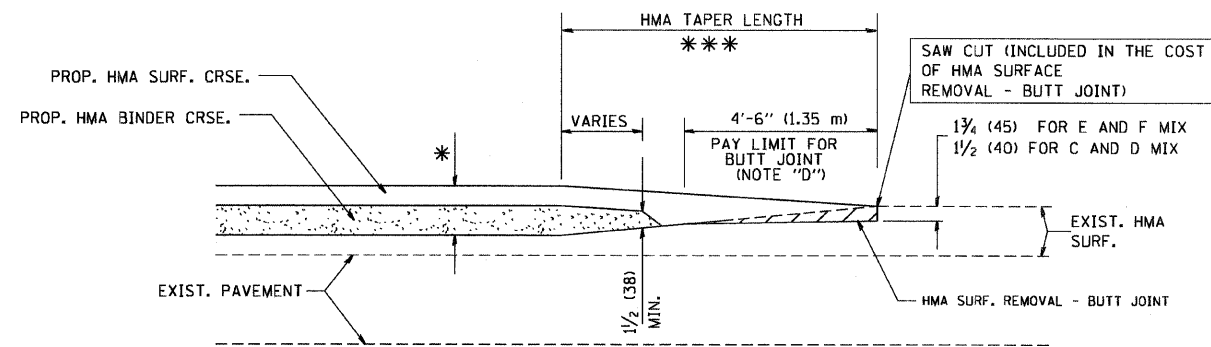
MILLED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1



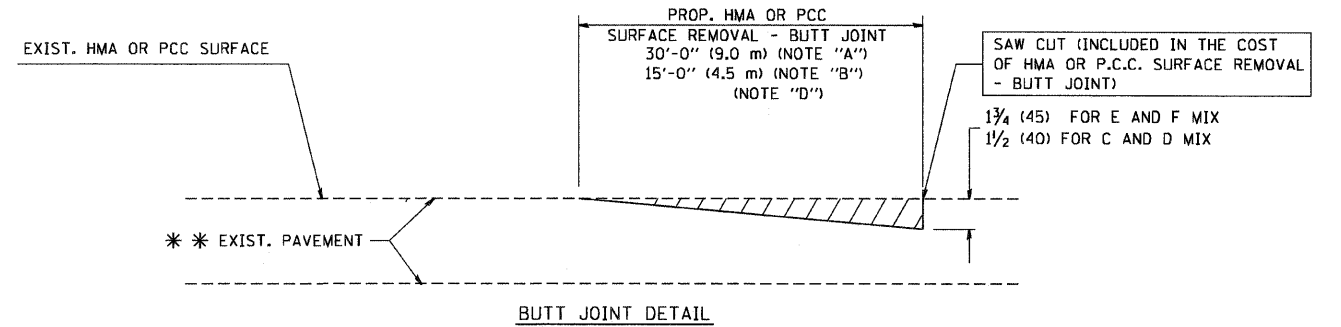
HMA CONSTRUCTED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2  
TYPICAL TEMPORARY RAMP

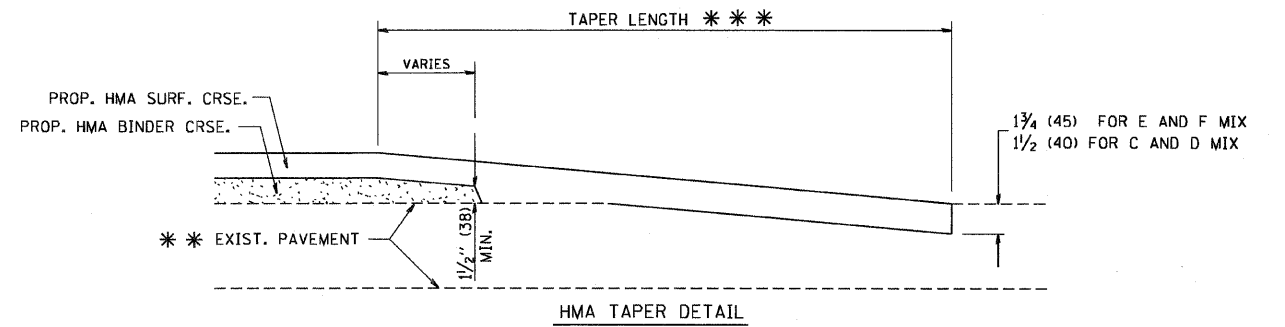


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER  
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER  
FOR RESURFACING ONLY

\* \* \* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
  - B: MINOR SIDE ROADS.
  - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
  - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
  - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
  - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \* \* \* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

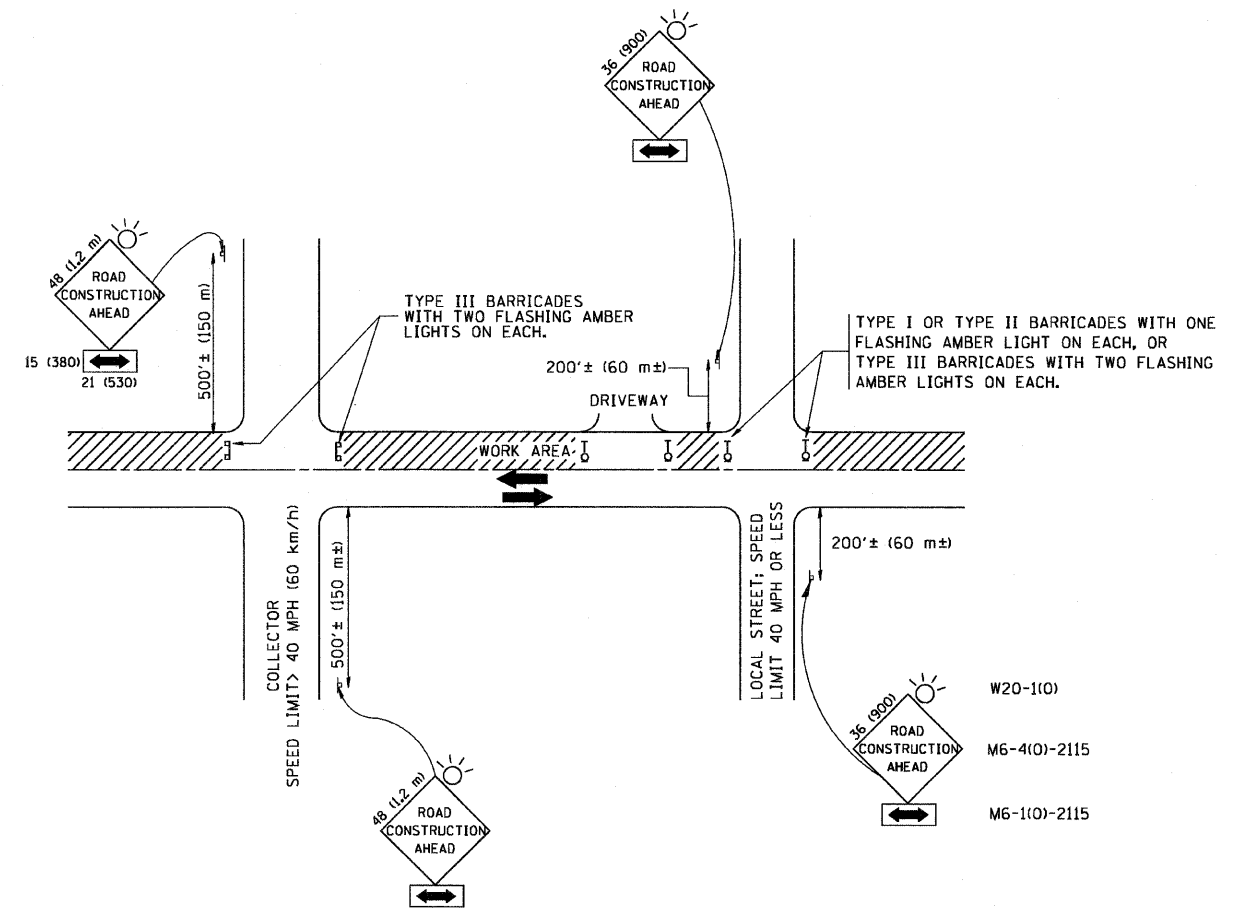
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	PLOT SCALE = 5/8" = 1" / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.
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F.A.U. RTE. 2681	SECTION 3134 RS-3	COUNTY COOK	TOTAL SHEETS 33	SHEET NO. 25
BD400-05 BD32			CONTRACT NO. 60F49	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

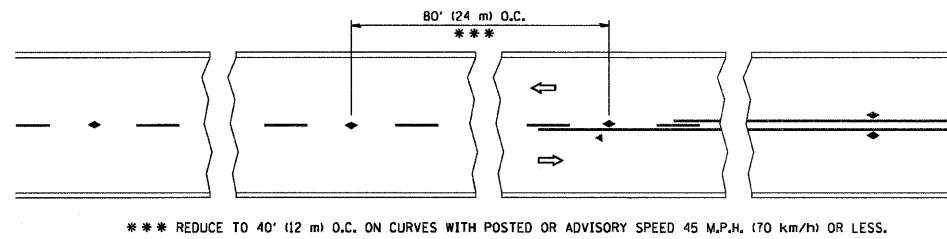
All dimensions are in millimeters (inches) unless otherwise shown.

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		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 68.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

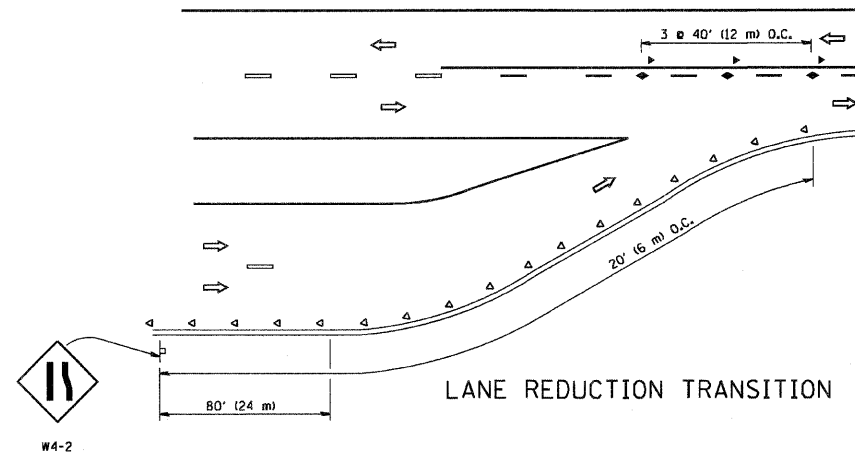
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

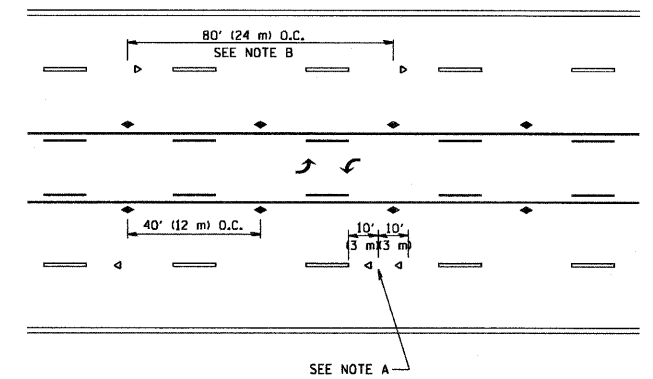
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2681	3134 RS-3	COOK	33	26
TC-10			CONTRACT NO. 60F49	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



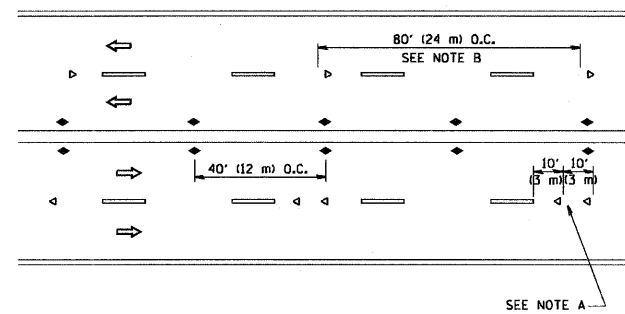
TWO-LANE/TWO-WAY



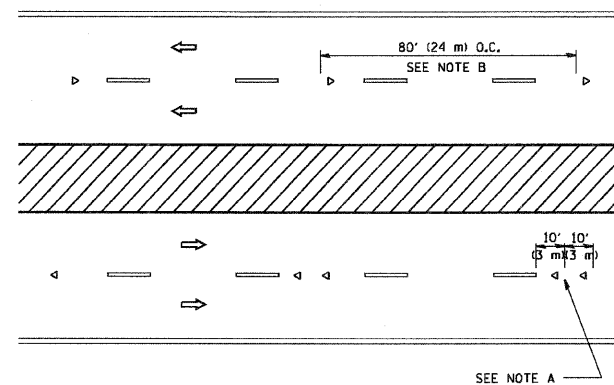
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

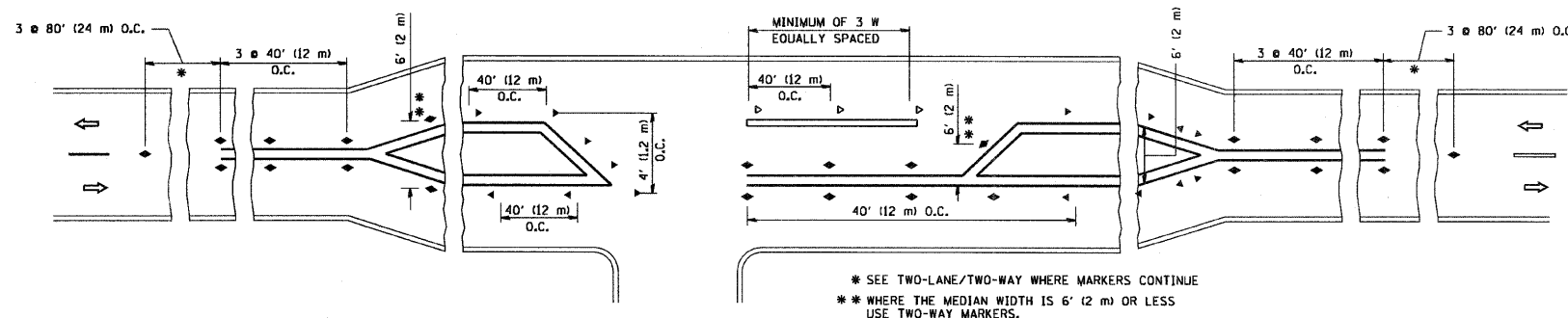
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

DESIGN NOTES

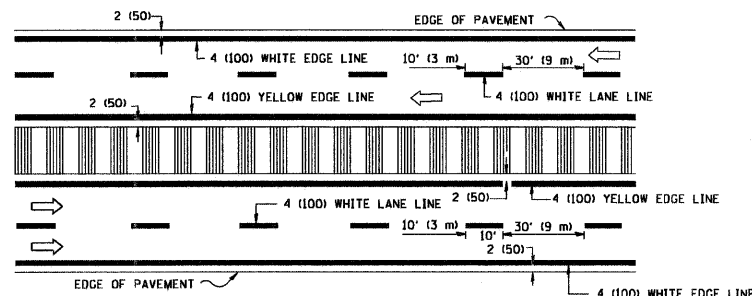
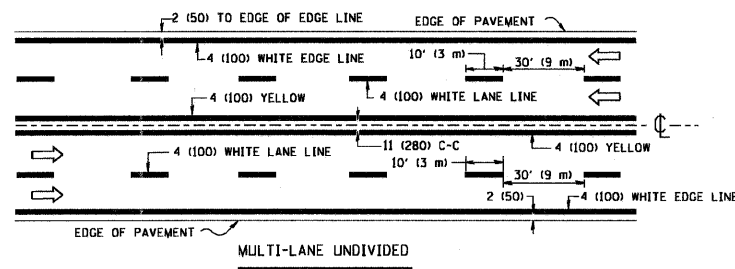
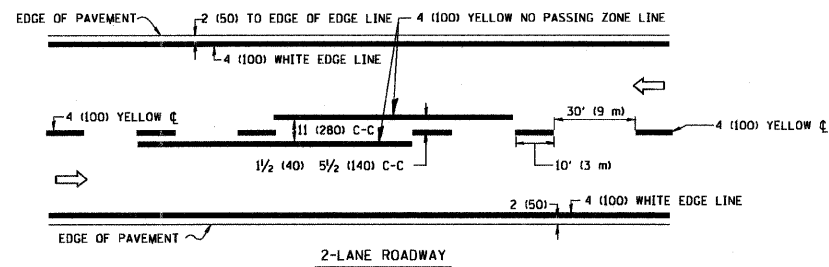
1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

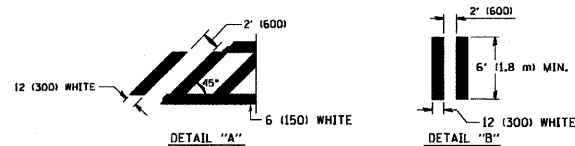
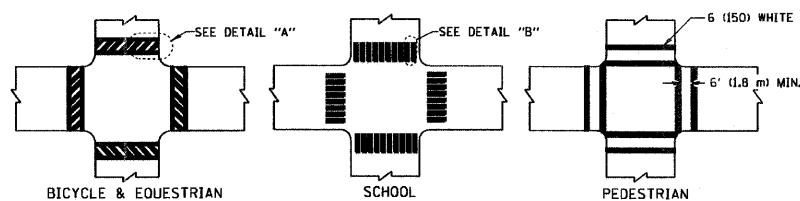
All dimensions are in inches (millimeters) unless otherwise shown.

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	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - T. RAMMACHER 03-12-99		<b>RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)</b>			<b>TC-11</b>		<b>CONTRACT NO. 60F49</b>		
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 01-06-00		SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT		
		DATE -	REVISED -									

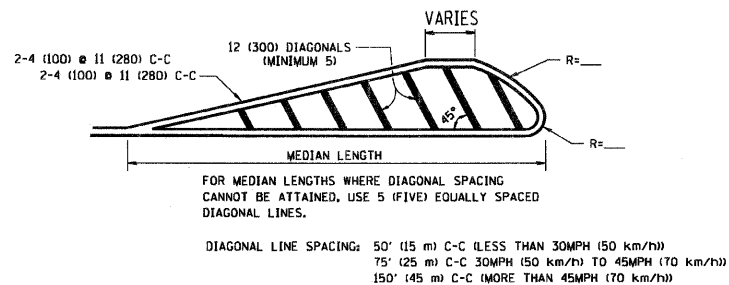
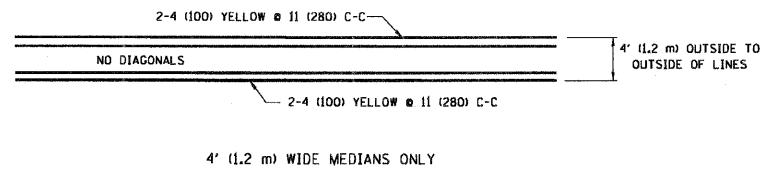


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

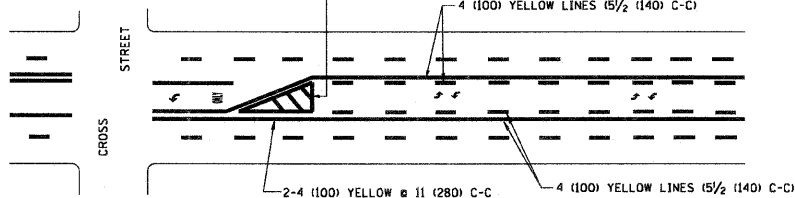
TYPICAL LANE AND EDGE LINE MARKING



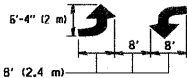
TYPICAL CROSSWALK MARKING



MEDIANS OVER 4' (1.2 m) WIDE

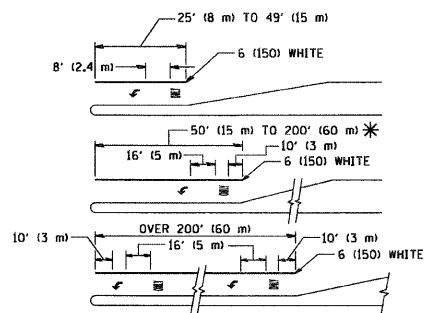


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

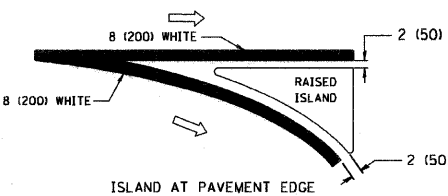
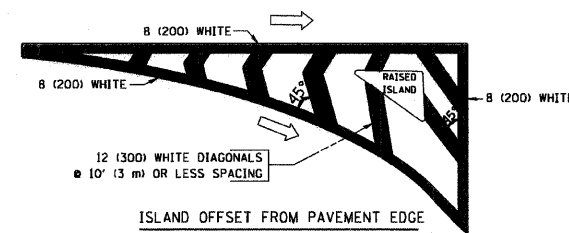


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
\* AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN & A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL))	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

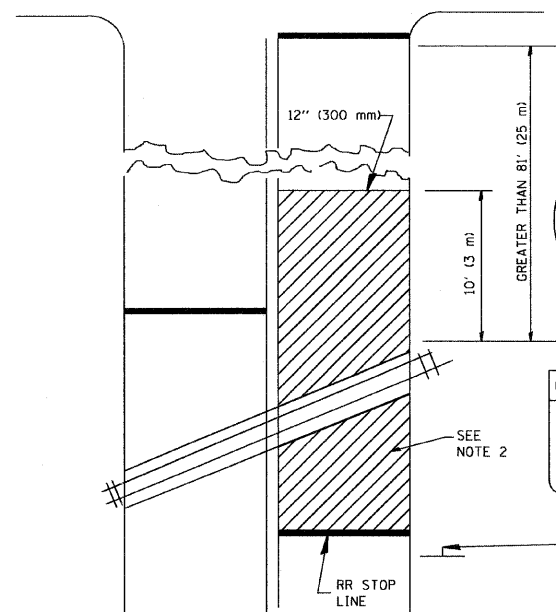
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	PLOT SCALE = 68.8000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-17-96
	PLOT DATE = 1/4/2008	DATE - 03-19-90	REVISED - T. RAMMACHER 01-06-00

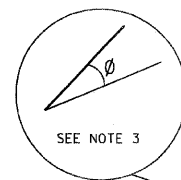
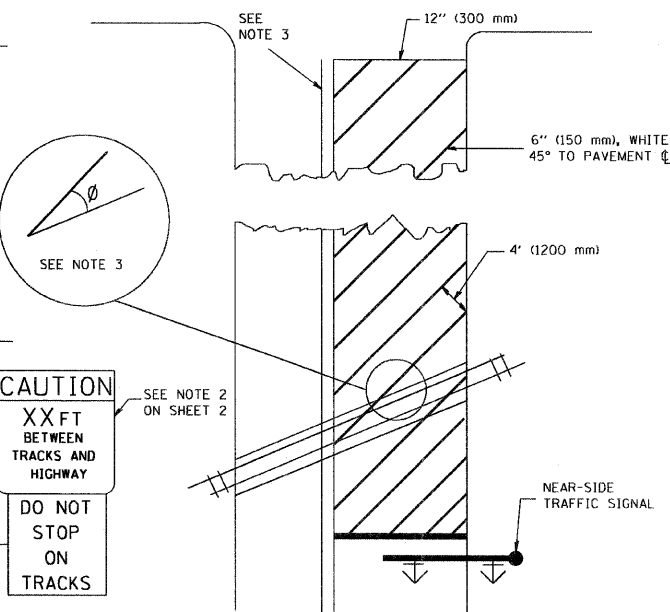
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		F.A.U. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		2691	3134 RS-3	COOK	33	28
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.	
		TC-13		CONTRACT NO. 60F49		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT						

WITH INTERSECTION TRAFFIC SIGNALS



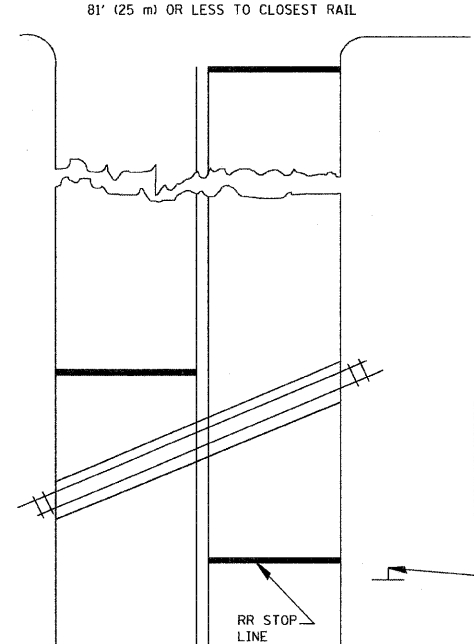
WITH NEAR-SIDE TRAFFIC SIGNALS



CAUTION  
XX FT  
BETWEEN  
TRACKS AND  
HIGHWAY  
DO NOT  
STOP  
ON  
TRACKS

- NOTES:
1. PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
  2. WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED, THE PAVEMENT MARKINGS EXTENDS TO THE INTERSECTION.
  3. WHERE THE ANGLE BETWEEN THE DIAGONAL STRIPES AND THE TRACK ( $\theta$ ) WOULD BE LESS THAN APPROXIMATELY 20°, THE STRIPES SHOULD BE SLOPED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.

WITH NONSIGNALIZED INTERSECTION



(W10 - 1100)  
CAUTION  
XX FT  
BETWEEN  
TRACKS AND  
HIGHWAY  
DO NOT  
STOP  
ON  
TRACKS

- NOTE :
1. DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET (1.8 m) FROM THE RAIL, CLOSEST TO THE INTERSECTION TO THE STOP LINE OR CROSSWALK, WHICHEVER IS CLOSEST, ROUNDED DOWN TO THE NEAREST 5 FEET (1.5 m). WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE THE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
  2. THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6 FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTEND TO THE INTERSECTION.

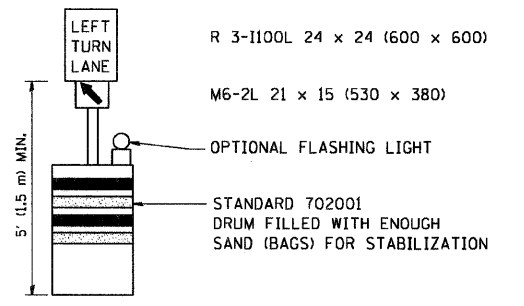
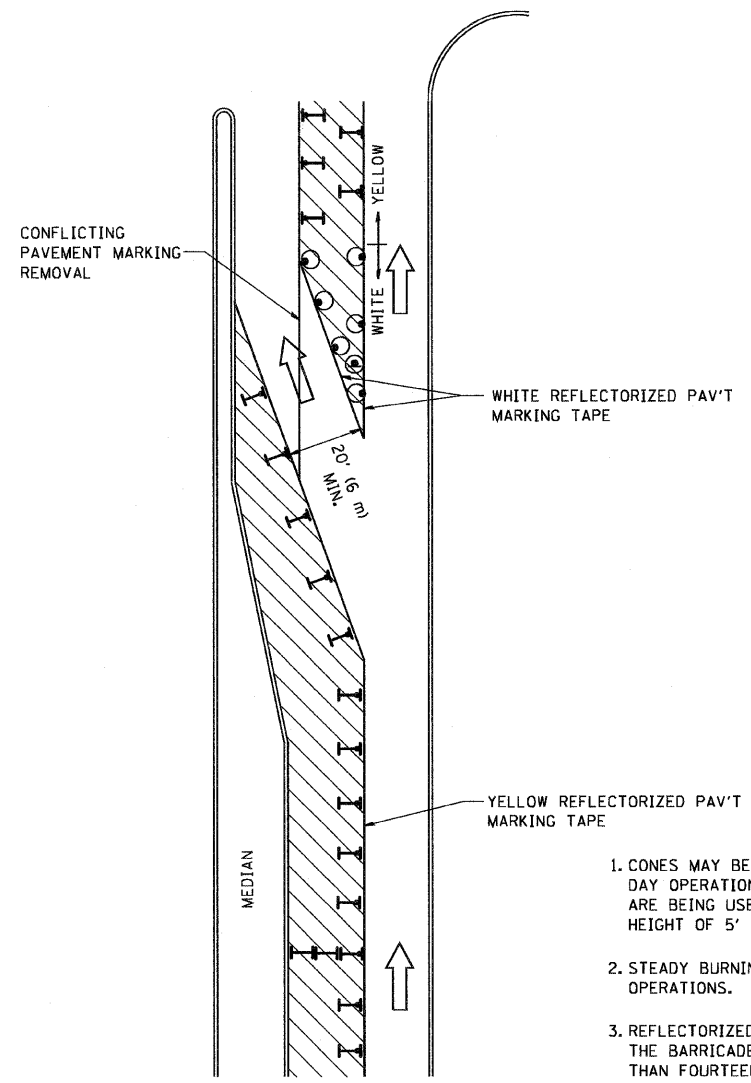
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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE. 2691	SECTION 3134 RS-3	COUNTY COOK	TOTAL SHEETS 33	SHEET NO. 29
TC-23			CONTRACT NO. 60F49	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				









**GENERAL NOTES**

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM BT 725 IS REQUIRED.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

**LEGEND**

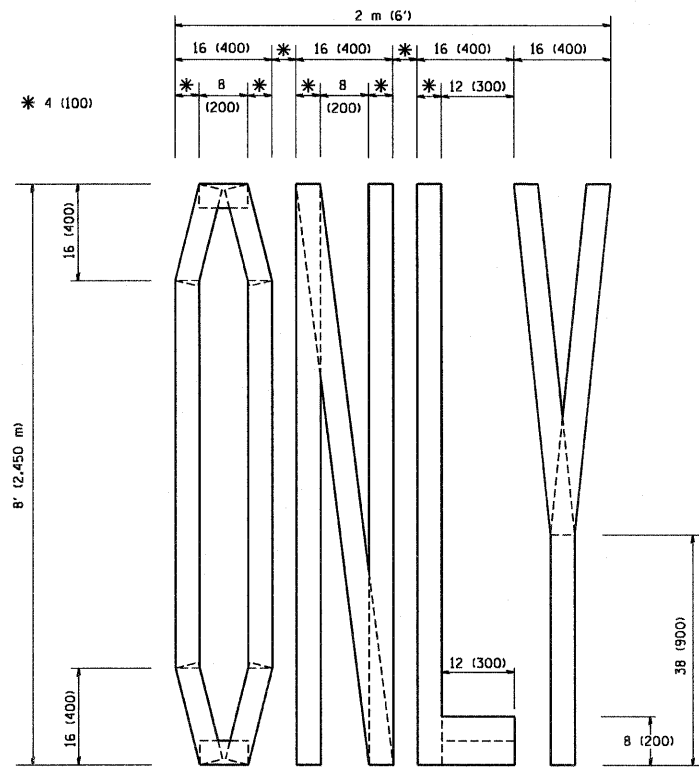
-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

FILE NAME =	USER NAME = geglennobt	DESIGNED -	REVISED -T. RAMMACHER 09-08-94
W:\detroit\22x34\to14.dgn		DRAWN -	REVISED - A. HOUSEH 11-07-95
		PLOT SCALE = 58.0000 // IN.	REVISED - A. HOUSEH 10-12-96
		PLOT DATE = 1/4/2008	REVISED -T. RAMMACHER 01-06-00
		CHECKED -	
		DATE -	

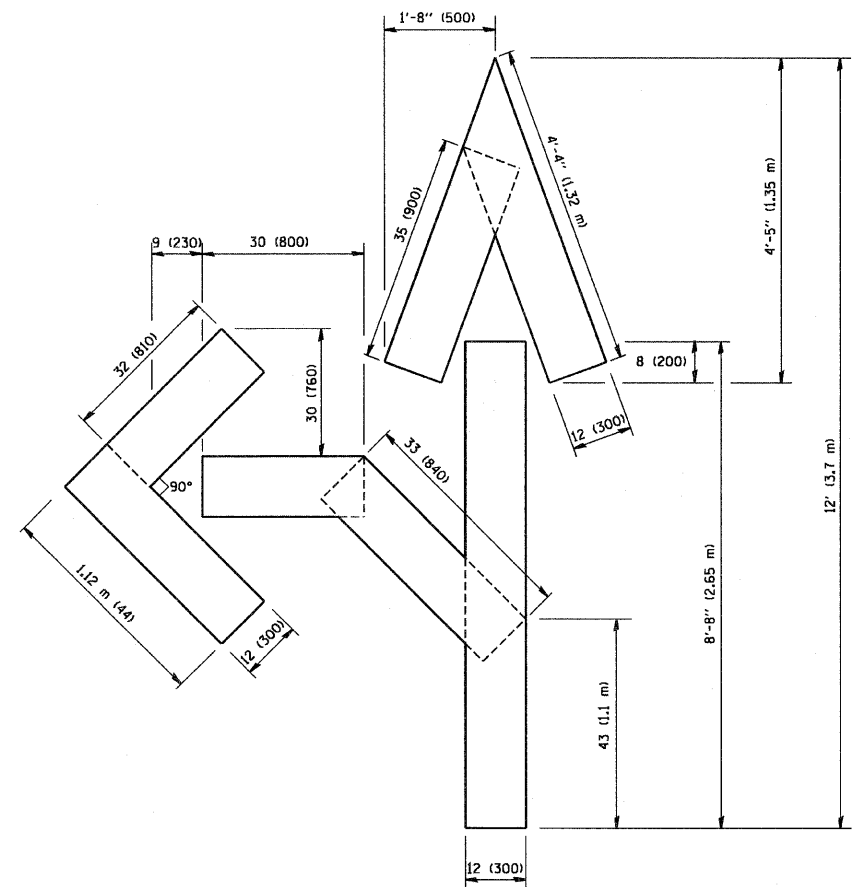
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

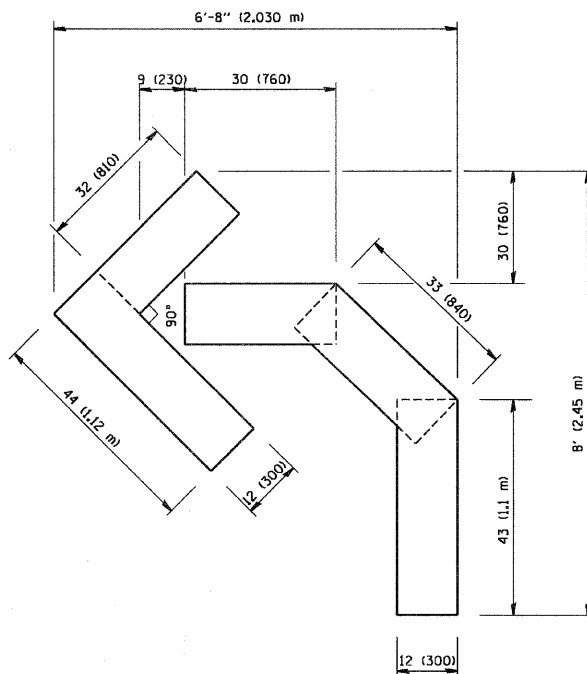
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2691	3134 RS-3	COOK	33	30
<b>TC-14</b>			<b>CONTRACT NO. 60F49</b>	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



QUANTITY  
 4 (100) LINE = 64.1 ft. (19.7 m)  
 21.1 sq. ft. (1.97 sq. m)



QUANTITY  
 4 (100) LINE = 82.5 ft. (25.3 m)  
 27.5 sq. ft. (2.53 sq. m)



QUANTITY  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.39 sq. m)

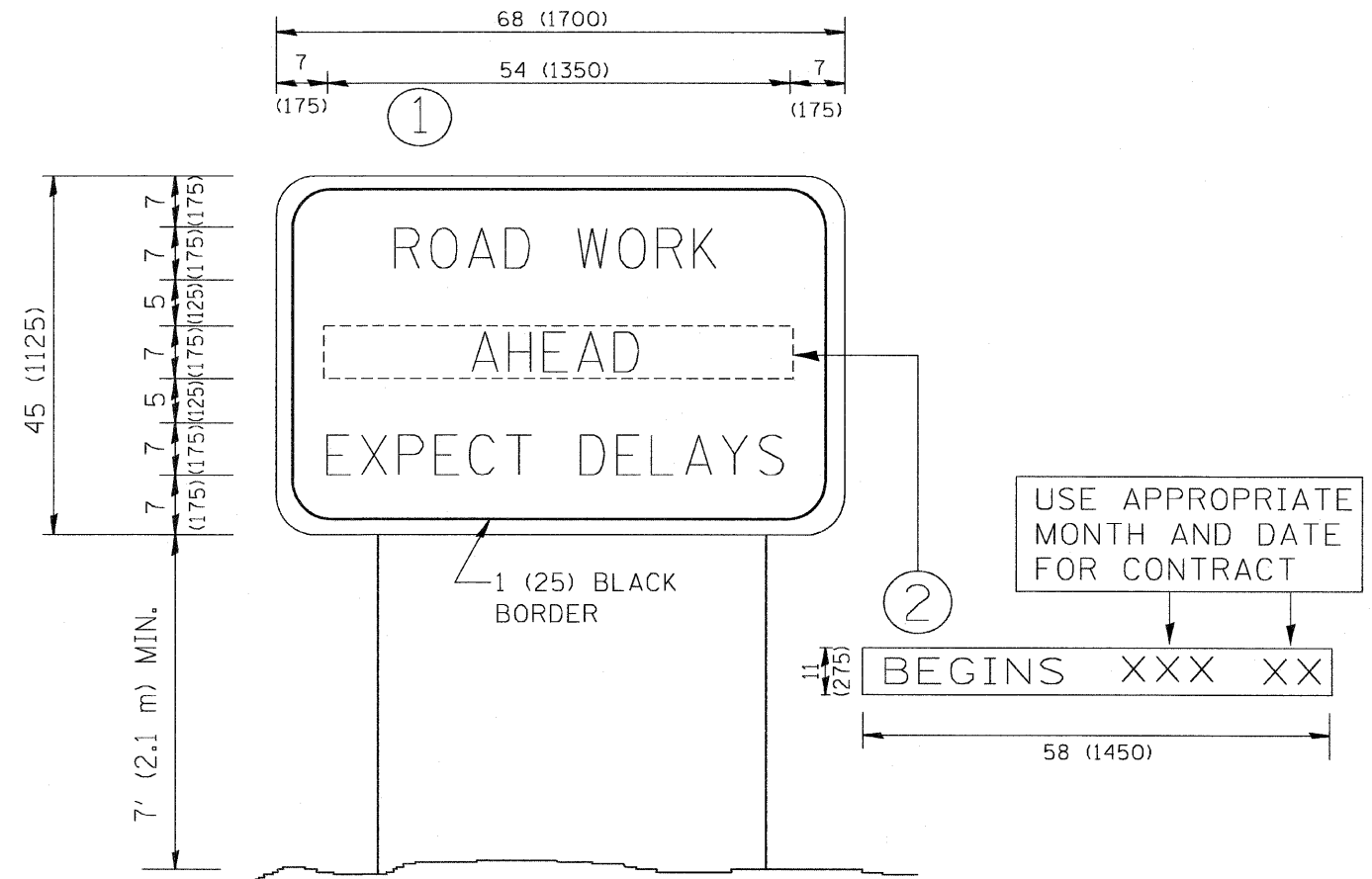
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = W:\data\22x34\to16.dgn	USER NAME = gegl:enobt	DESIGNED - DRAWN -	REVISED -T. RAMMACHER 06-05-96 REVISED -T. RAMMACHER 11-04-97
PLOT SCALE = 50.0000 / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98	
PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2691	3134 RS-3	COOK	33	31
TC-16			CONTRACT NO. 60F49	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**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.

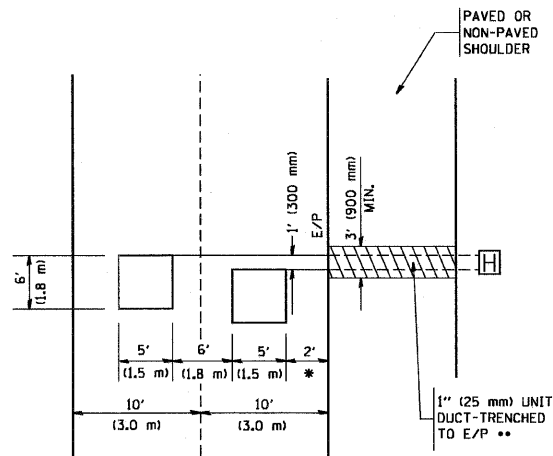
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\dststd\22x34\to22.dgn	USER NAME = gaglianobt	DESIGNED - -	REVISED - R. MIRS 09-15-97	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ARTERIAL ROAD INFORMATION SIGN</b>			F.A.U. RTE. 2691	SECTION 3134 RS-3	COUNTY COOK	TOTAL SHEETS 33	SHEET NO. 32
	PLOT SCALE = 50.000 / IN.	CHECKED - -	REVISED - T. RAMMACHER 02-02-99		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	<b>TC-22</b>		CONTRACT NO. 60F49	
	PLOT DATE = 1/4/2008	DATE - -	REVISED - C. JUCIUS 01-31-07		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



**LOOPS NEXT TO SHOULDERS**

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.



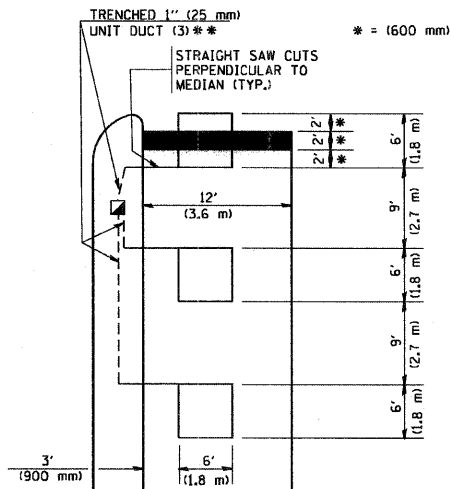
\* = (600 mm)

\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH**

(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



\* = (600 mm)

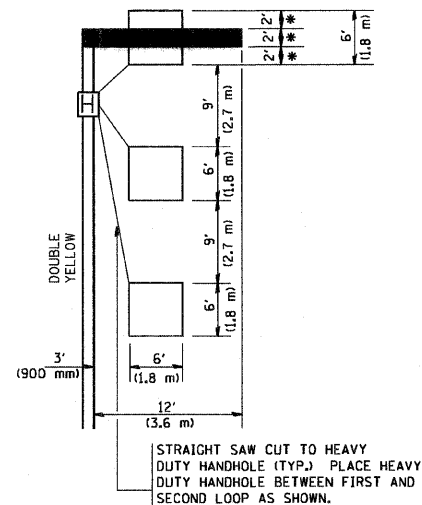
\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**LEFT TURN LANES WITHOUT MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH**

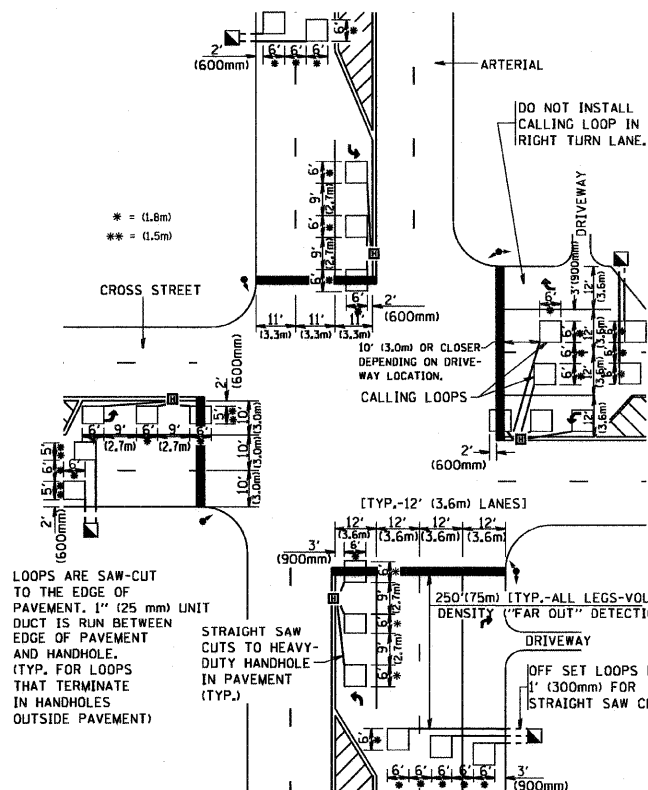
(PROTECTED / PERMITTED LEFT TURN PHASING)

\* = (600 mm)



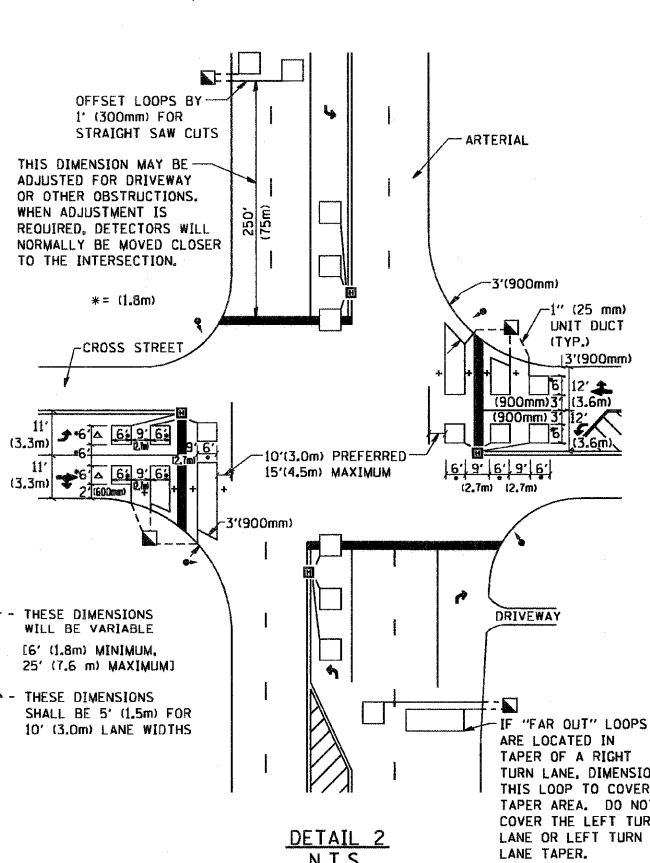
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)  
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**



**DETAIL 1  
N.T.S.**

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)  
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



**DETAIL 2  
N.T.S.**

**NOTES:**

**VEHICLES LOOP DETECTORS**

- \* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- \* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- \* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- \* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- \* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

**PLACEMENT OF DETECTORS**

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

**NOTE:**

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

FILE NAME = W:\data\td\22x34\ts07.dgn	USER NAME = gegl1enobt	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50.0000 / / IN.	CHECKED - R.K.F.	REVISED -	REVISED -			2891	3134 RS-3	COOK	33	33
PLOT DATE = 1/4/2008	DATE -	REVISED -	REVISED -			<b>TS-07</b>		<b>CONTRACT NO. 60F49</b>		
						SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.