CONTRACT NO. 62923

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098-RS-4	COOK	32	1

D-91-155-05

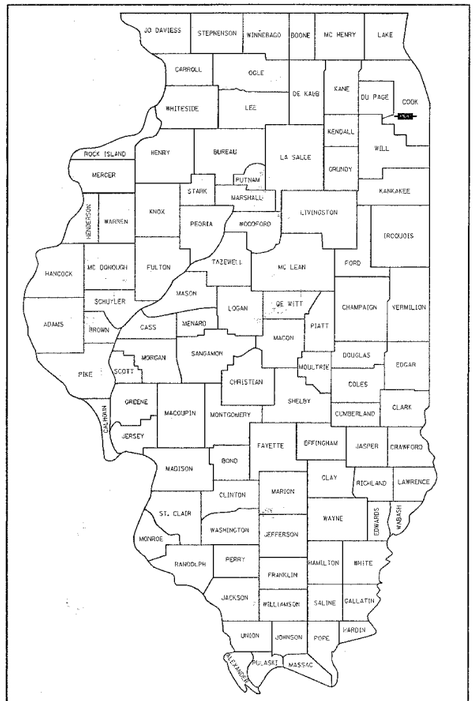
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN THE VILLAGES OF LEMONT & PALOS PARK

F.A.U. ROUTE 1587: MCCARTHY ROAD
SECTION: 3098 RS-4
BELL ROAD TO US 45 (LA GRANGE ROAD)
RESURFACING (MAINTENANCE), DRAINAGE
COOK COUNTY
C-91-155-05
PROJECT: ACHPP-HPP-F-1587(004)

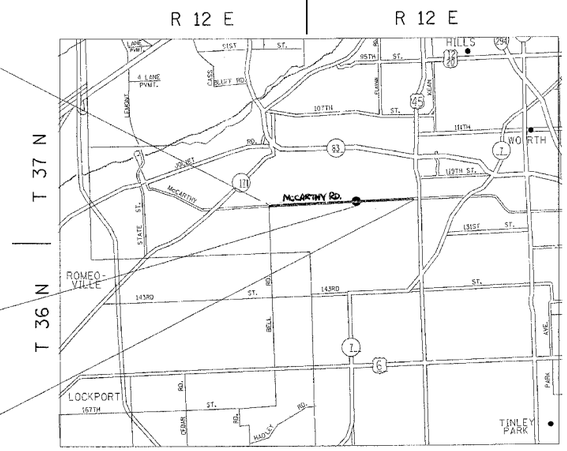


LOCATION OF SECTION INDICATED THUS: –

IMPROVEMENT BEGINS
STA. 401+18

OMISSION
STATION 443+42 TO
STATION 458+46

IMPROVEMENT ENDS
STA. 588+46



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TRAFFIC DATA

2002 ADT = 13,900
POSTED SPEED LIMIT= 45 - 55 MPH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 27 2006
Diane M. O'Keefe /cof
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
June 30, 2006
Mike Stone /KO
ENGINEER OF DESIGN AND ENVIRONMENT
June 30, 2006
Milton L. Seen, P.E. /KO
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

100' 200' 300' — 1"= 100'
10' 20' 30' — 1"= 10'
1"= 50'
1"= 40'
1"= 30'
1"= 20'

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

GROSS LENGTH OF IMPROVEMENT = 18,728 LINEAL FEET = 3.50 MILES
NET LENGTH OF IMPROVEMENT = 17,503 LINEAL FEET = 3.31 MILES

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 62923

DIST. 1 DESIGN - PLAN PREP ENGINEER/KEN ENG/BOB BORO (847) 705-4178

D-91-155-05

F. A. U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
1587	3098 RS-4	COOK	32	2
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62923

INDEX OF SHEET

LIST OF STANDARDS

000001-04 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

442201-01 CLASS C AND D PATCHES

701301-02 LANE CLOSURE, 2-L,2-W, SHORT TIME OPERATIONS

701306-01 LANE CLOSURE, 2-L,2-W SLOW MOVING OPERATIONS- DAY ONLY FOR SPEEDS >_45

701311-02 LANE CLOSURE, 2-L,2-W MOVING OPERATION- DAY ONLY

701501-03 URBAN LANE CLOSURE 2L, 2W UNDIVIDED

702001-00 TRAFFIC CONTROL DEVICE

~~482101 RUMBLE STRIP FOR PCC OR BITUMINOUS SHOULDER~~
642001 SHOULDER RUMBLE STRIPS

280001-02 TEMPORARY EROSION CONTROL SYSTEMS

482011-01 BIT. SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS

542101 REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS 375MM (15") THRU 900MM (36") DIA. AT RIGHT ANGLES WITH ROADWAY

542306 PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION

542501 INLET BOX TYPE 600 (24) A

601101 CONCRETE HEADWALL FOR PIPE DRAIN

602001 CATCH BASIN TYPE A

602401-01 MANHOLE TYPE A

604036-01 GRATE TYPE 8

630001-00 STEEL PLATE BEAM GUARDRAIL

630301-03 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS

635006-02 REFLECTOR AND TERMINAL MARKER PLACEMENT

635011-01 REFLECTOR MARKER AND MOUNTING DETAILS

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGES OF LEMONT.

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

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 40 MM (1½ INCHES) WHERE THE SPEED LIMIT IS 80 KM/H (45 MPH) OR LESS AND 25 MM (1 INCH) WHERE THE SPEED LIMIT IS GREATER THAN 80 KM/H (45 MPH). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 75 MM (3 INCHES) MAY BE ALLOWED IF THE EDGE OFTHE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND BITUMINOUS TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

THE RESIDENT ENGINEER SHALL CONTACT MS. PATRICE HARRIS AREA TRAFFIC FIELD TECHNICIAN AT (708) 597-9800 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKIMG.

THE QUANTITIES FOR PATCHING ARE BASED ON PATCHING FIRST THEN MILLING.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MCCARTHY ROAD
INDEX OF SHEEETS, STATE STANDARDS & GENERAL NOTES

SCALE: VERT. 1"=50'
HORIZ.
DATE 4/7/2006

DRAWN BY
CHECKED BY

Rev.

4/7/2006
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098 RS-4	COOK	32	3
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		

62923

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: 80% FED. 20% STATE 1000					
20800150	TRENCH BACKFILL	CU YD	75	75					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1603	1603					
21400100	GRADING AND SHAPING DITCHES	FOOT	2606	2606					
25000210	SEEDING, CLASS 2A	ACRE	2.2	2.2					
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	38	38					
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	38	38					
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	38	38					
25100630	EROSION CONTROL BLANKET	SQ YD	441	441					
28100105	STONE RIPRAP, CLASS A3	SQ YD	17	17					
28100107	STONE RIPRAP, CLASS A4	SQ YD	34	34					
28200200	FILTER FABRIC	SQ YD	51	51					
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	19	19					
40600300	AGGREGATE (PRIME COAT)	TON	96	96					
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	14	14					
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	197	197					
40601000	BITUMINOUS REPLACEMENT OVER PATCHES	TON	3248	3248					
44000004	BITUMINOUS SURFACE REMOVAL 1"	SQ YD	3200	3200					
44000124	BITUMINOUS REMOVAL OVER PATCHES, 6"	SQ YD	9670	9670					
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	395	395					
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	313	313					
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	2616	2616					
48101200	AGGREGATE SHOULDERS, TYPE B	TON	1276	1276					
48202400	BITUMINOUS SHOULDERS SUPERPAVE 6"	SQ YD	900	900					
50105220	PIPE CULVERT REMOVAL	FOOT	93	93					
54201279	PIPE CULVERTS, TYPE 2 RCCP 24"	FOOT	45	45					
54209892	PIPE CULVERTS, TYPE 2, REINFORCED CONCRETE - ELLIPTICAL, EQUIVALENT ROUND-SIZE 27"	FOOT	234	234					
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	5	5					
54214722	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE 27"	EACH	10	10					
54215424	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 24"	EACH	2	2					

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: 80% FED. 20% STATE 1000					
54215430	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 30"	EACH	1	1					
54244805	INLET BOX, STANDARD 542501	EACH	3	3					
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	90	90					
55039700	STORM SEWERS TO BE CLEANED	FOOT	100	100					
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	1158	1158					
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	140	140					
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	1185	1185					
550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	555	555					
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	1					
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	12	12					
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	3	3					
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	1275	1275					
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4	4					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6					
67100100	MOBILIZATION	L SUM	1	1					
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1					
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	2191	2191					
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	73	73					
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	59753	59753					
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	981	981					
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	80	80					
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	50	50					
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	73	73					
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	59753	59753					

* SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

PLOT DATE: 4/7/2006

4/7/2006

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098 RS-4	COOK	32	9
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		

62923

SUMMARY OF QUANTITIES

	CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: 80% FED. 20% STATE (1000)					
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	981	981					
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	80	80					
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	50	50					
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	532	532					
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	16	16					
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4					
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	532	532					
*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	350	350					
	X0321374	GRADING AND SHAPING SHOULDERS	FOOT	15948	15948					
	X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4					
	X0323092	HEADWALL REMOVAL	EACH	3	3					
	X0323973	SEDIMENT CONTROL, SILT FENCE	FOOT	2732	2732					
	X4066426	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70	TON	4148	4148					
	X4066616	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70	TON	101	101					
	X4067100	POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50	TON	2074	2074					
	X4409410	BITUMINOUS SURFACE REMOVAL 2 1/4"	SQ YD	46000	46000					
	Z0055400	RUMBLE STRIP	FOOT	126	126					

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE (1000)					

*SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

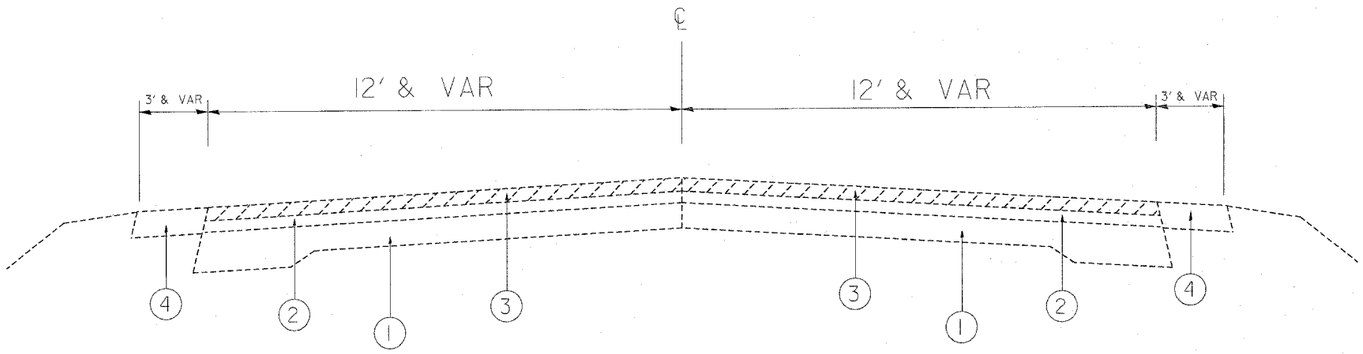
SUMMARY OF QUANTITIES

PLOT DATE: $$DATE$$

$$DATE$$

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098 RS-4	COOK	32	5
STA.		TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62923

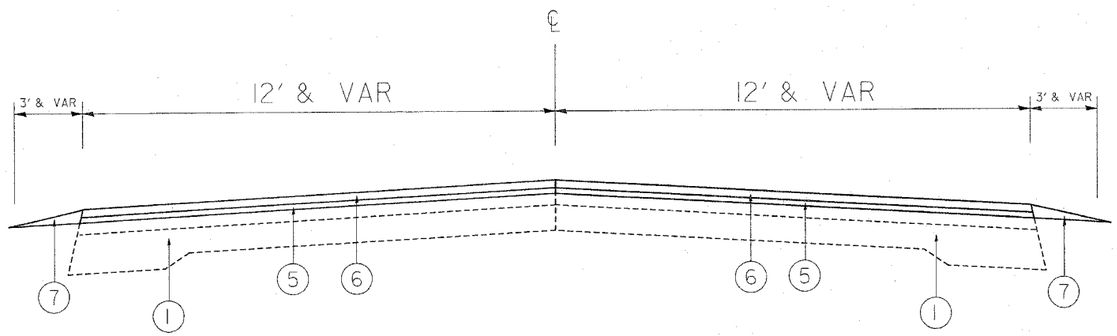


MCCARTHY RD.

EXISTING TYPICAL CROSS SECTION
STA. 401+18 TO STA. 443+42
STA. 458+46 TO STA. 539+55

LEGEND

1. EXISTING PCC BASE COURSE, 9"
2. EXISTING BITUMINOUS SURFACE OVERLAY
3. PROPOSED BITUMINOUS SURFACE REMOVAL, 2 1/4"
4. EXISTING AGGREGATE SHOULDERS
5. PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL 4.75 N50
6. PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70, 1 1/2 "
7. PROPOSED AGGREGATE SHOULDERS TYPE B
8. EXISTING COMB. CONC. CURB AND GUTTER
9. EXISTING BITUMINOUS SURFACE REMOVAL, 1"
10. PROPOSED LEVELING BINDER (MACHINE METHOD), SUPERPAVE N70, 1 1/2"



MCCARTHY RD.

PROPOSED TYPICAL CROSS SECTION
STA. 401+18 TO STA. 443+42
STA. 458+46 TO STA. 539+55
STA. 559+66 TO STA. 588+46

MIXTURE REQUIREMENTS			
MIXTURE USES	AC / PG	RAP % (MAX)	DESIGN AIR VOIDS
POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50	SBS/SBR PG76-28	0%	2.5% AT 50 GYRATIONS
BIT. CONC. SURFACE COURSE, SUPERPAVE, MIX "D", N70	PG 64-22	10%	4% AT 70 GYRATIONS
LEVELING BINDER (MACHINE METHOD) SUPERPAVE N70	PG 64-22	10%	4% AT 70 GYRATIONS
ALL CLASS D PATCHING BINDER IL - 19MM	PG 64-22	15%	4% AT 70 GYRATIONS
BIT. REPLACEMENT OVER PATCHES BINDER IL - 19MM	PG 64-22	15%	4% AT 70 GYRATIONS
UNIT WEIGHT USED TO CALCULATE ALL BITUMINOUS SURFACE MIXTURE IS 112 LBS/SY/IN			

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

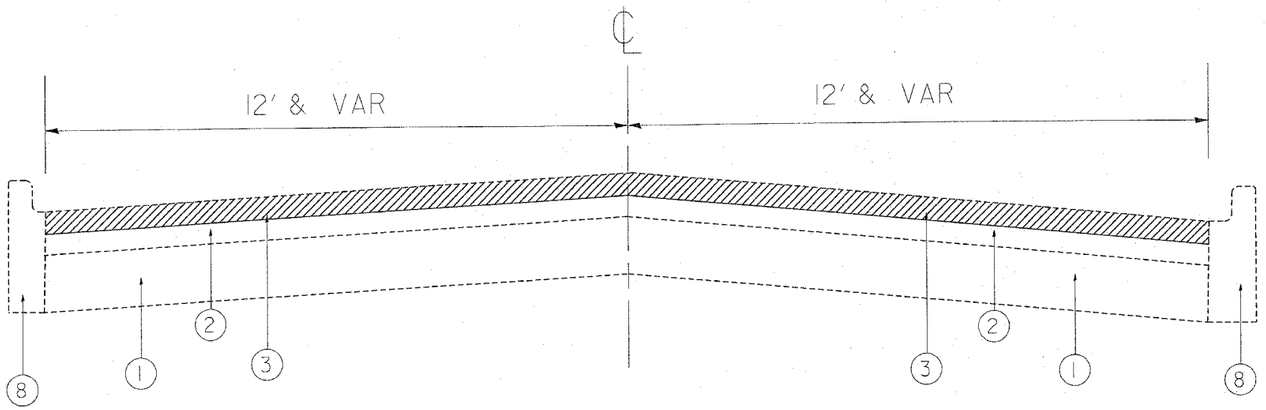
EXISTING & PROPOSED TYPICAL SECTIONS PLAN

SCALE
DATE
DRAWN BY
CHECKED BY

4/5/2006

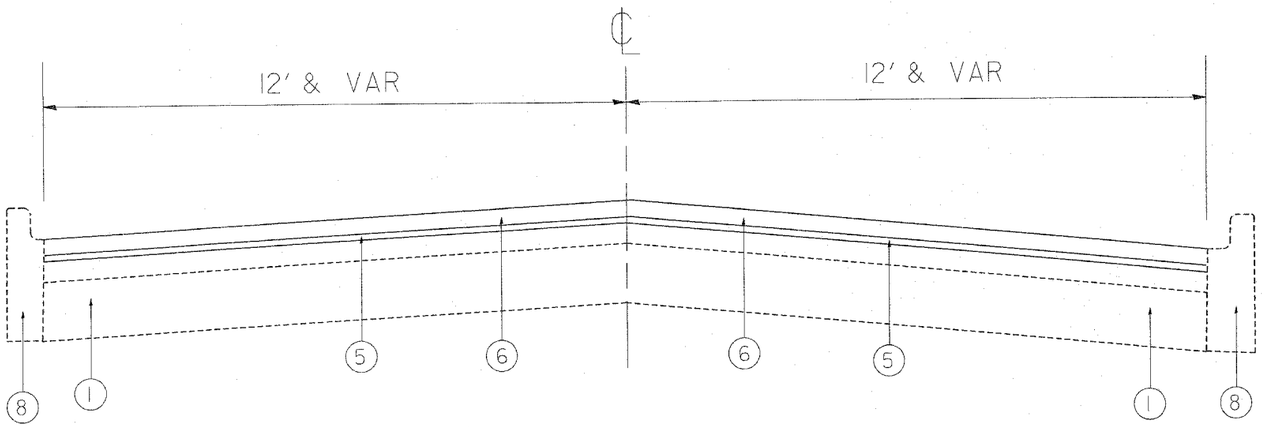
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098 RS-4	COOK	32	6
STA.		TO STA.		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62923



MCCARTHY RD.

EXISTING TYPICAL SECTION
STA. 546+90 TO STA. 559+66



MCCARTHY RD.

PROPOSED TYPICAL SECTION
STA. 546+90 TO STA. 559+66

LEGEND

1. EXISTING PCC BASE COURSE, 9"
2. EXISTING BITUMINOUS SURFACE OVERLAY
3. PROPOSED BITUMINOUS SURFACE REMOVAL, 2 1/4 "
4. EXISTING AGGREGATE SHOULDERS
5. PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL 4.75 N50
6. PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70, 1 1/2 "
7. PROPOSED AGGREGATE SHOULDERS TYPE B
8. EXISTING COMB. CONC. CURB AND GUTTER
9. EXISTING BITUMINOUS SURFACE REMOVAL, 1"
10. PROPOSED LEVELING BINDER (MACHINE METHOD), SUPERPAVE N70, 1 1/2"

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING & PROPOSED

TYPICAL SECTIONS PLAN

SCALE: VERT. NONE
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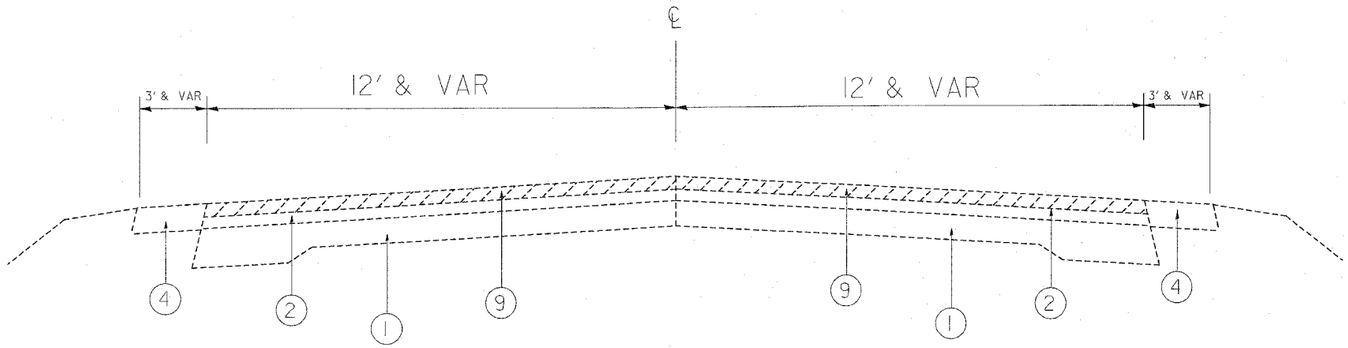
DATE

CHECKED BY

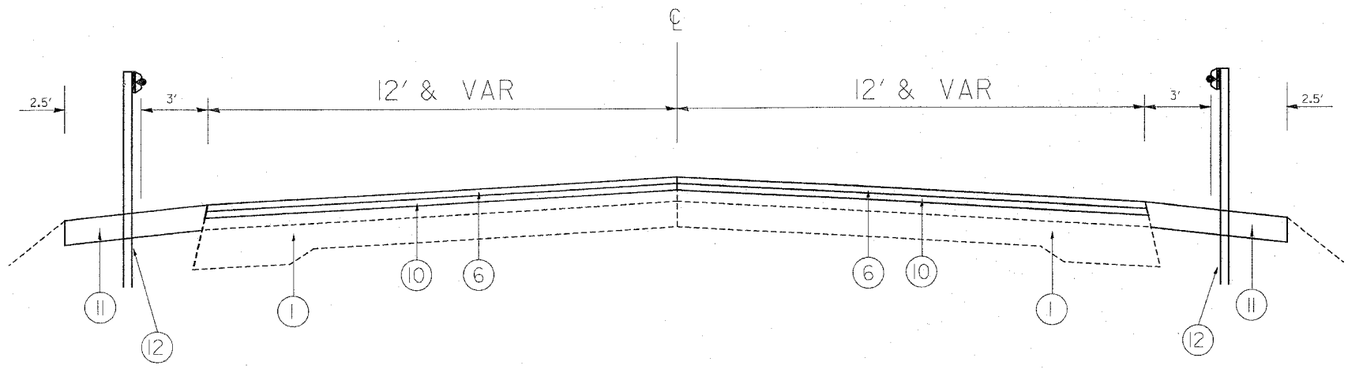
CONTRACT NO. 62923

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098-BS-4	COOK	32	7
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



MCCARTHY RD.

EXISTING TYPICAL CROSS SECTION
STA. 539+55 TO STA. 546+90



MCCARTHY RD.

PROPOSED TYPICAL CROSS SECTION
STA. 539+55 TO STA. 546+90

1. EXISTING PCC BASE COURSE, 9"
2. EXISTING BITUMINOUS SURFACE
3. PROPOSED BITUMINOUS SURFACE REMOVAL, 2 1/4"
4. EXISTING AGGREGATE SHOULDERS
5. PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL 4.75 N50
6. PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70, 1 1/2 "
7. PROPOSED AGGREGATE SHOULDERS TYPE B
8. EXISTING COMB. CONC. CURB AND GUTTER
9. EXISTING BITUMINOUS SURFACE REMOVAL, 1"
10. PROPOSED LEVELING BINDER (MACHINE METHOD), SUPERPAVE N70, 1 1/2"
11. PROPOSED BITUMINOUS SHOULDER SUPERPAVE, 6"
12. PROPOSED STEEL PLATE BEAM GUARDRAIL TYPE A

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING & PROPOSED

TYPICAL SECTIONS PLAN

SCALE: VERT. HORIZ.

DATE

DRAWN BY

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PLOT DATE = 4/5/2006
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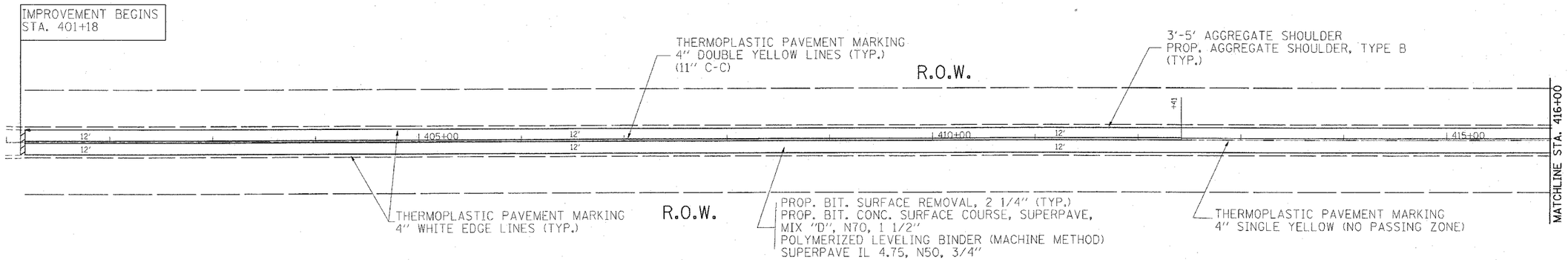
CONTRACT NO. 62923

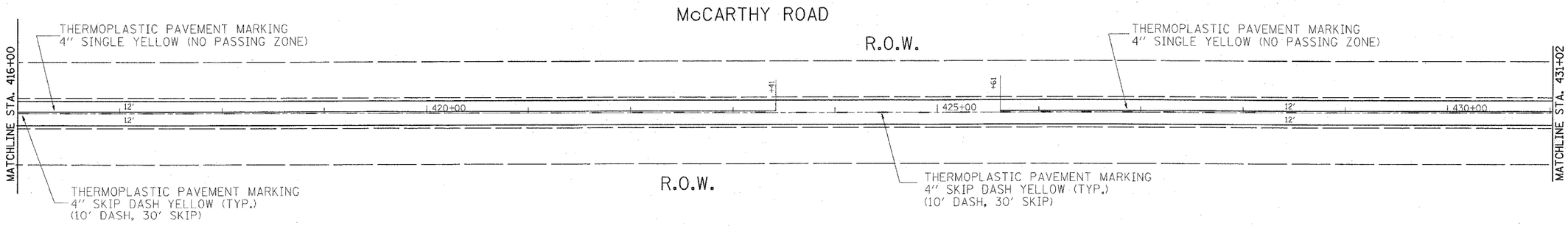
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098-BS-4	COOK	32	8
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

N

McCARTHY ROAD



McCARTHY ROAD



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MCCARTHY ROAD
PAVEMENT MARKING/ROADWAY PLANS

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

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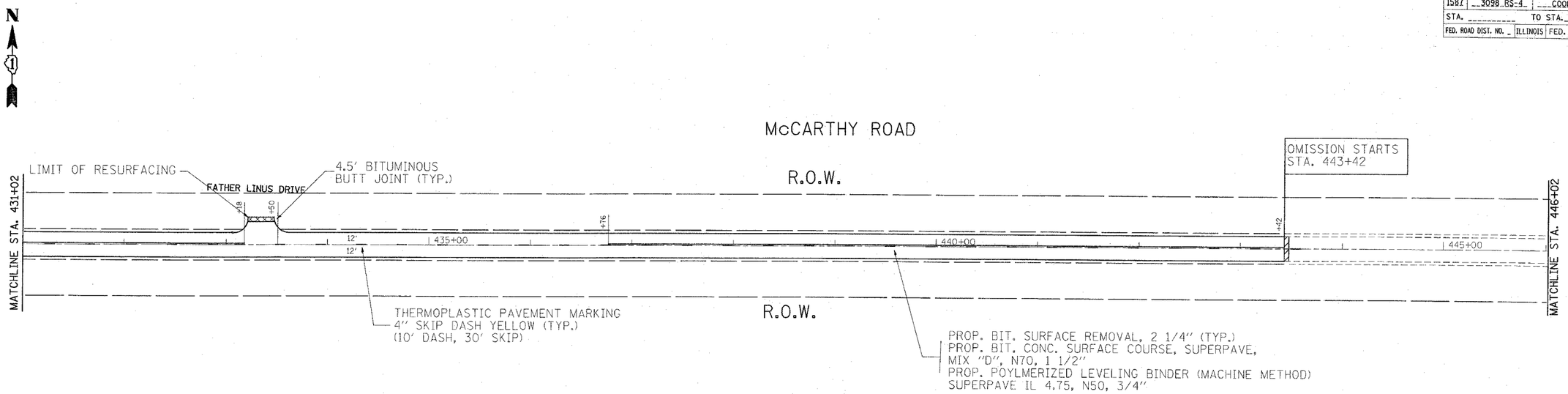
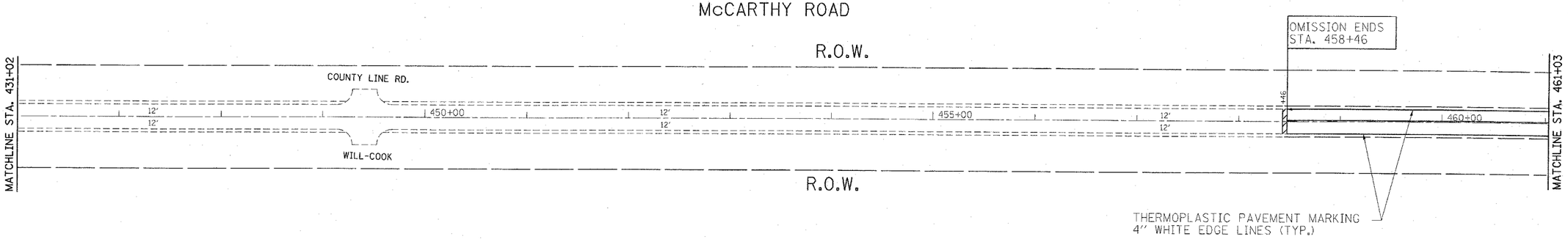
USER NAME = bankal

CONTRACT NO. 62923

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1581	3098.RS-4	COOK	32	9
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		





REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MCCARTHY ROAD
PAVEMENT MARKING/ROADWAY PLANS

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

PLOT DATE = 4/5/2006
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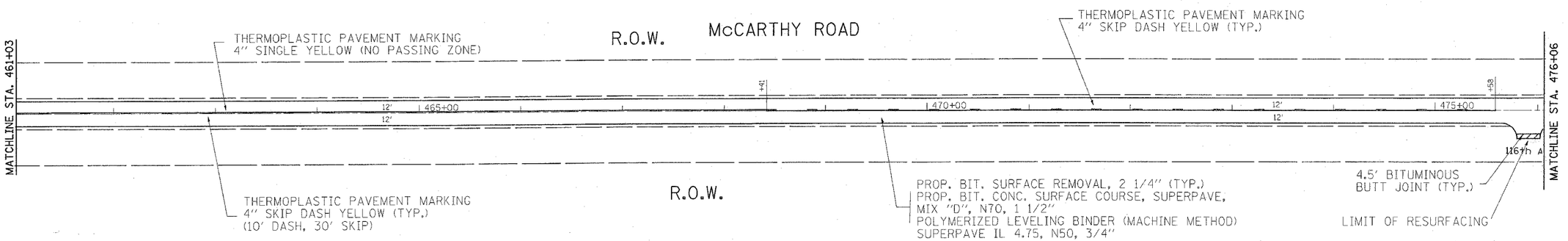
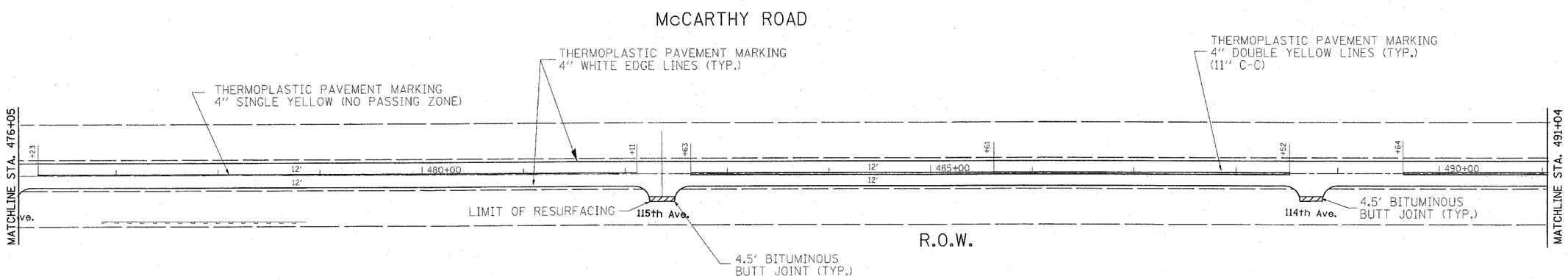
PLOT SCALE = 50.0000 ' / IN.
USER NAME = bankal

CONTRACT NO. 62923

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1581	3098_BS-4	COOK	32	10
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

N





REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MCCARTHY ROAD
PAVEMENT MARKING/ROADWAY PLANS

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

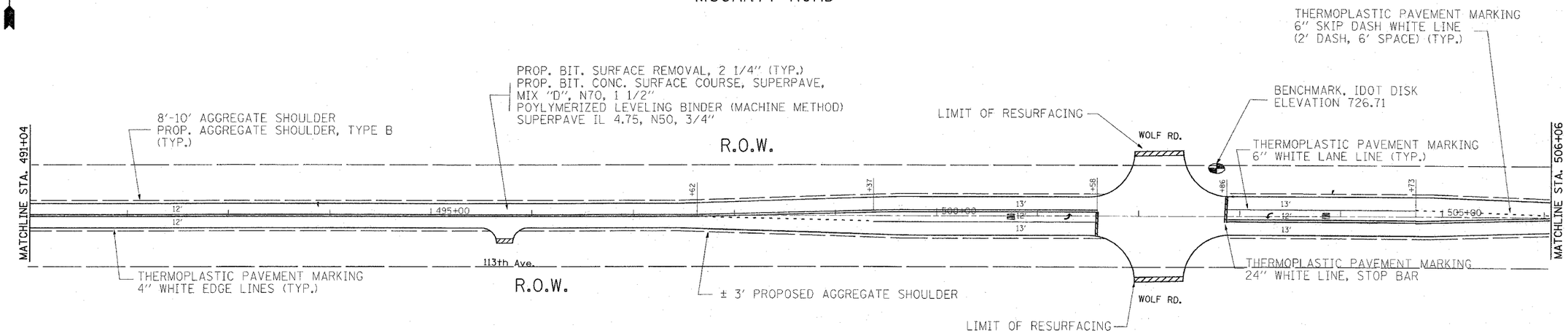
PLOT DATE = 4/5/2006
FILE NAME = c:\projects\d15505\d1550500.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = bankst

CONTRACT NO. 62923

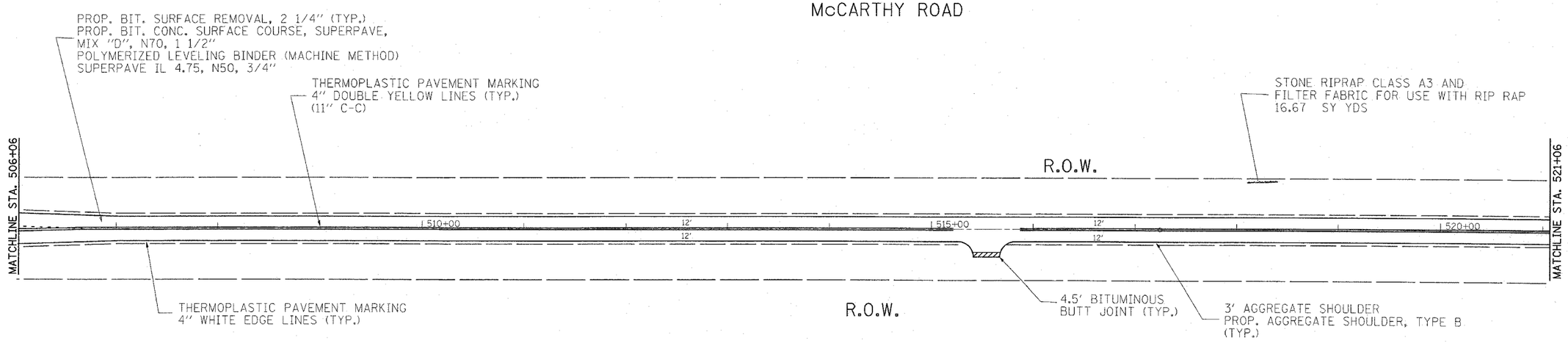
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098.BS-4	COOK	32	11
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

N

McCARTY ROAD



McCARTHY ROAD



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MCCARTHY ROAD
PAVEMENT MARKING/ROADWAY PLANS

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

PLOT DATE = 4/5/2006
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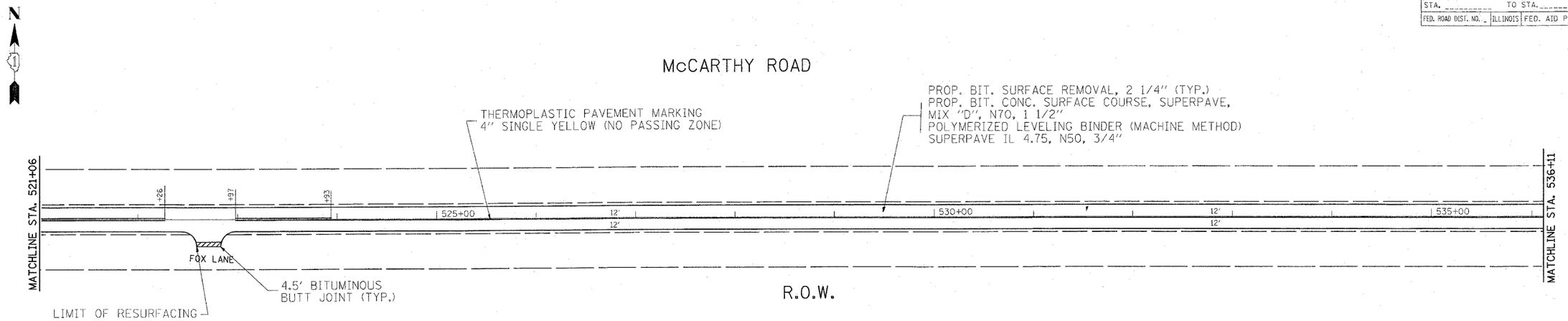
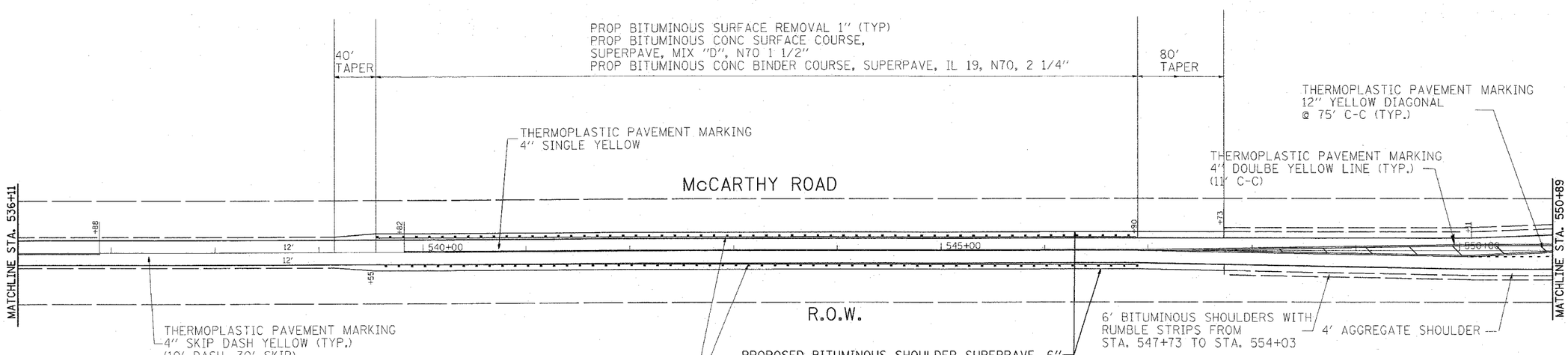
USER NAME = benkal

CONTRACT NO. 62923

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098-BS-4	COOK	32	12
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MCCARTHY ROAD
PAVEMENT MARKING/ROADWAY PLANS

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

PLOT DATE = 4/5/2006
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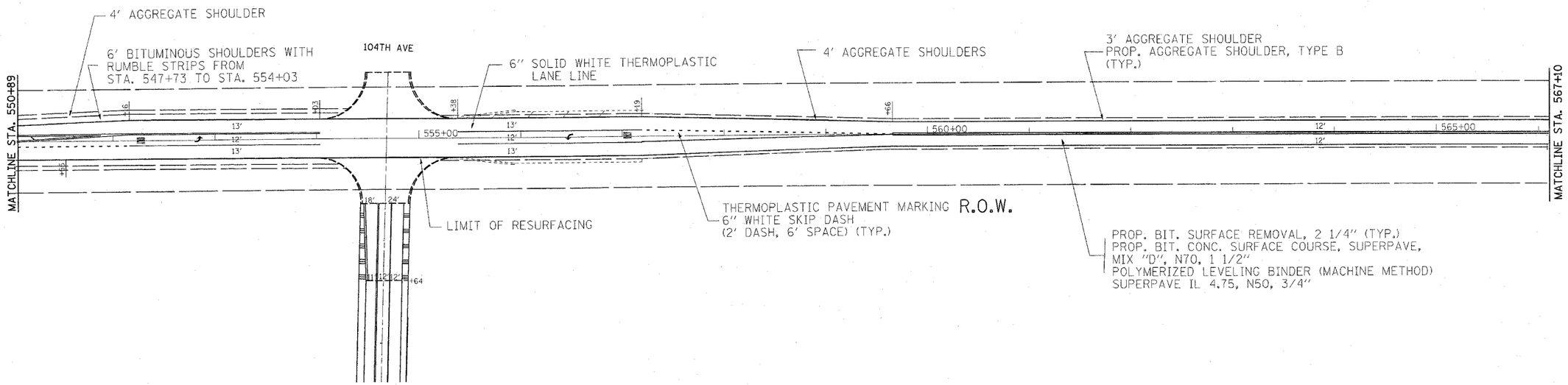
USER NAME = burkal

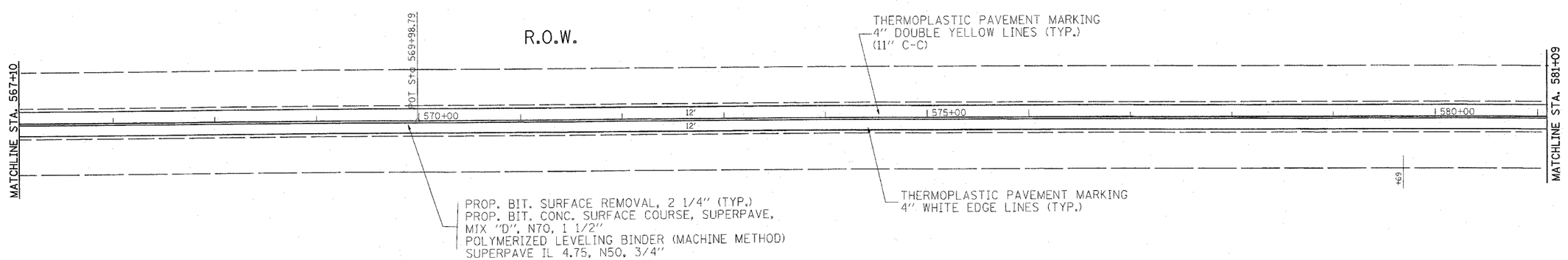
CONTRACT NO. 62923

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098-BS-4	COOK	32	13
STA.		TO STA.		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

N

McCARTHY ROAD





REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MCCARTHY ROAD
PAVEMENT MARKING/ROADWAY PLANS

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

PLOT DATE = 4/5/2006
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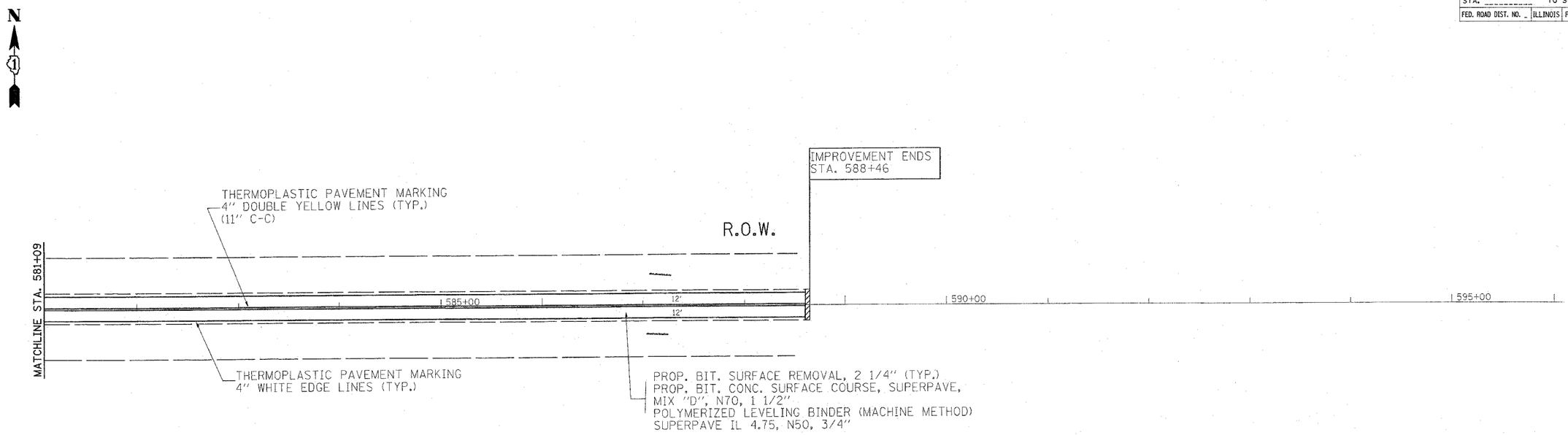
USER NAME = bonnie

CONTRACT NO. 62923

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1581	3098-BS-4	COOK	32	14
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MCCARTHY ROAD
PAVEMENT MARKING/ROADWAY PLANS

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

PLOT DATE = 4/5/2006
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USER NAME = barkis1

CONTRACT NO. 62923

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098-BS-4	COOK	32	15
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

1. MH TYP A, 4' DIA., T8 GRATE
STA. 512+70, 20' RT
T.O.G. 736.00
INV. 731.00

2. MH TYP A, 4' DIA., T8 GRATE
STA. 512+70, 21' RT
T.O.G. 735.00
INV. 730.72

3. MH TYP A, 4' DIA., T8 GRATE
STA. 515+65, 24' LT
T.O.G. 738.50
INV. 729.69

4. MH TYP A, 4' DIA., T8 GRATE
STA. 517+30, 27' LT
T.O.G. 737.00
INV. 728.81

5. MH TYP A, 4' DIA., T8 GRATE
STA. 542+05, 40' RT
T.O.G. 722.20
INV. 716.89

6. MH TYP A, 4' DIA., T8 GRATE
STA. 544+55, 40' RT
T.O.G. 725.10
INV. 716.39

7. MH TYP A, 4' DIA., T8 GRATE
STA. 547+05, 40' RT
T.O.G. 720.00
INV. 715.89

8. MH TYP A, 4' DIA., T8 GRATE
STA. 549+55, 40' RT
T.O.G. 722.80
INV. 715.39

9. MH TYP A, 4' DIA., T8 GRATE
STA. 552+05, 40' RT
T.O.G. 719.00
INV. 714.89

10. MH TYP A, 4' DIA., T8 GRATE
STA. 554+64, 40' RT
T.O.G.
INV. 714.02

11. MH TYP A, 4' DIA., T8 GRATE
STA. 554+36, 345' RT
T.O.G.
INV. 713.12

12. MH TYP A, 4' DIA., T8 GRATE
STA. 539+55, 40' RT
T.O.G. 720.70
INV. 717.39

PIPE TABLE

NO.	STATION & OFFSET	TO	STATION & OFFSET	TYPE	CLASS	DIA.	LINEAR FT.	FLARE END SECTION	
1	512+37, 35' RT	TO	512+70, 20' RT	1	A	24"	25	-	
1A	512+56, 27' LT	TO	512+70, 22' LT	1	A	24"	14	1	
2	512+70, 20' RT	TO	512+70, 22' LT	1	A	24"	42	1	
3	512+70, 20' LT	TO	515+65, 25' LT	2	A	30"	295	-	
4	515+65, 25' LT	TO	518+15, 27' LT	2	A	30"	250	-	
4A	518+16, 28' LT	TO	518+20, 35' LT	2	A	30"	10		
5	538+84, 45' LT	TO	538+84, 45' RT	2	A	24"	90	-	
6	539+55, 46' LT	TO	539+55, 40' RT	1	A	18"	70	-	
7	539+55, 40' RT	TO	542+05, 40' RT	2	A	18"	250	-	
8	542+05, 40' RT	TO	544+55, 40' RT	2	A	18"	250	-	
9	544+55, 40' RT	TO	547+05, 40' RT	2	A	18"	250	-	
10	547+05, 40' RT	TO	549+55, 40' RT	2	A	18"	250	-	
11	549+53, 40' RT	TO	552+03, 40' RT	2	A	18"	250	-	
12	552+03, 40' RT	TO	554+25, 40' RT	2	A	18"	259	-	
13	554+64, 40' RT	TO	554+36, 345' RT	2	A	18"	345	-	
14	554+06, 40' RT	TO	554+36, 350' RT	2	A	18"	25	-	
15	554+11, 345' RT	TO	554+94, 345' RT	2	A	24"	58	2	

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MCCARTHY ROAD
PROPOSED DRAINAGE STRUCTURES
AND PIPE TABLE

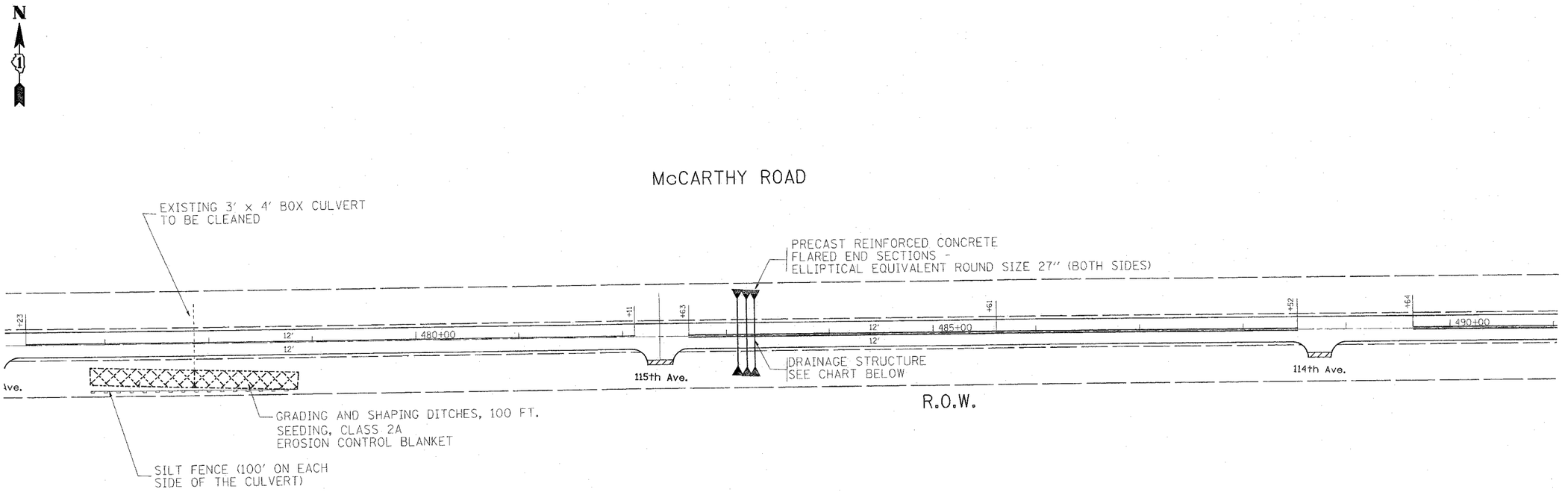
SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

PLOT DATE = 4/5/2006
FILE NAME = c:\projects\vol1550\vol1550ss.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = bankal

CONTRACT NO. 62923

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098-BS-4	COOK	32	16
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTE: REMOVE EXISTING HEADWALL AT
STA. 483+10 LEFT
PAID FOR AS HEADWALL REMOVAL,
1 EACH

PIPE SIZE	SHAPE	EQUIV ROUND SIZE	LENGTH	UPSTREAM INV.	DOWNSTREAM INV.
3-34"x 22"	ELLIPTICAL	27"	48'	720.25 (SOUTH)	719.00 (NORTH)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MCCARTHY ROAD
PROPOSED DRAINAGE PLANS
AND EROSION CONTROL PLANS

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

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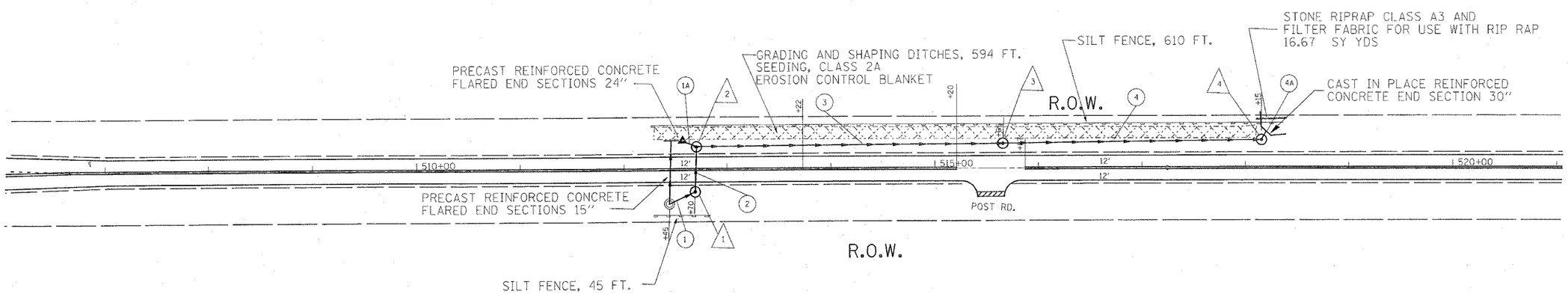
USER NAME = tomd

CONTRACT NO. 62923

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1581	3098-RS-4	COOK	32	17
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

N

McCARTHY ROAD



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MCCARTHY ROAD
PROPOSED DRAINAGE PLANS
AND EROSION CONTROL PLANS

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

PLOT DATE = 4/5/2026
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USER NAME = benkai

CONTRACT NO. 62923

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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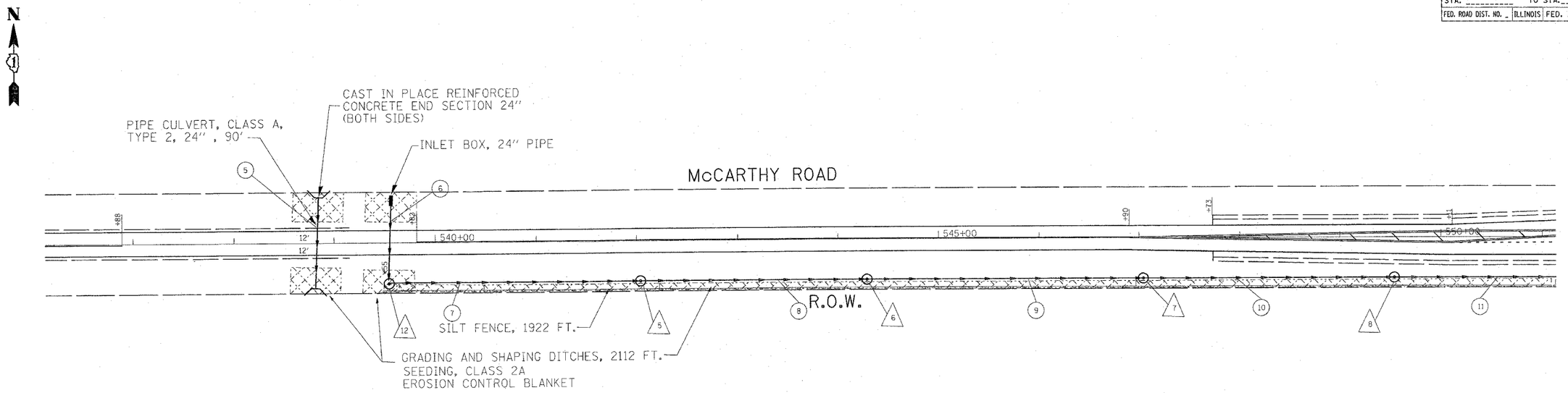
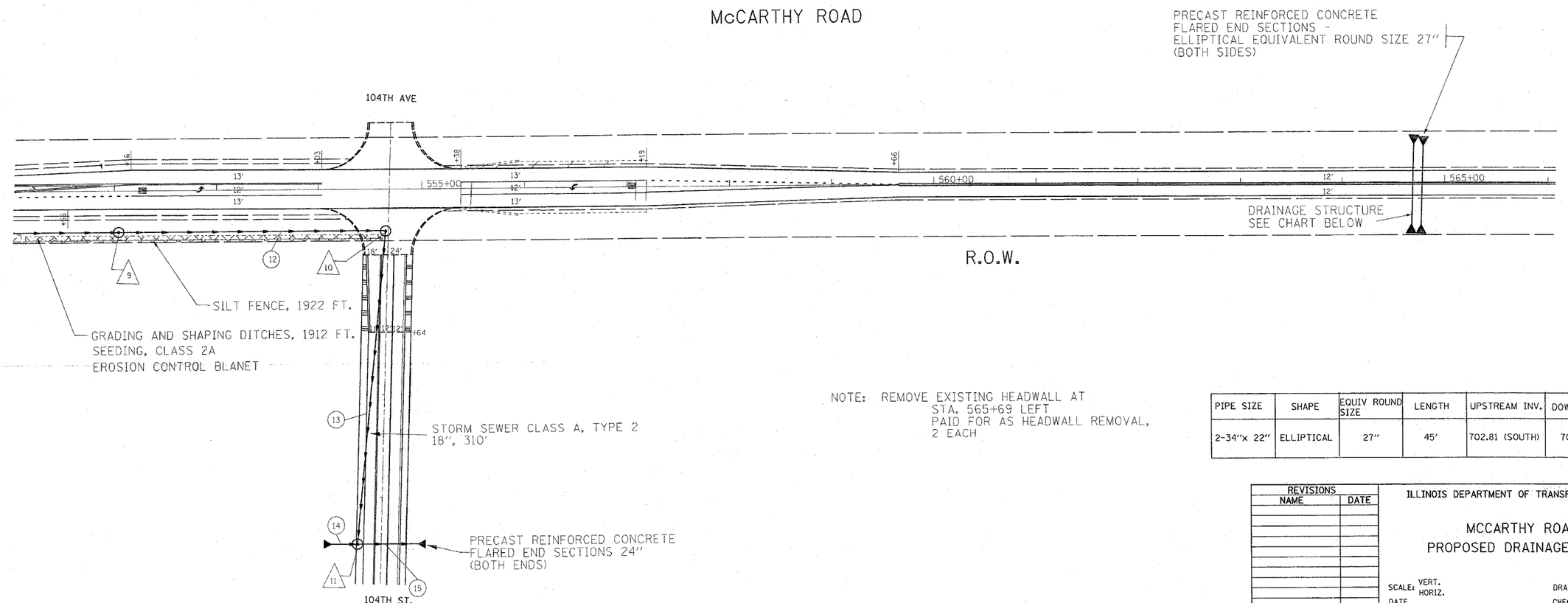
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		





NOTE: REMOVE EXISTING HEADWALL AT STA. 565+69 LEFT PAID FOR AS HEADWALL REMOVAL, 2 EACH

PIPE SIZE	SHAPE	EQUIV ROUND SIZE	LENGTH	UPSTREAM INV.	DOWNSTREAM INV.
2-34"x 22"	ELLIPTICAL	27"	45'	702.81 (SOUTH)	702.71 (NORTH)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MCCARTHY ROAD
PROPOSED DRAINAGE PLANS

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

PLOT DATE = 4/5/2006
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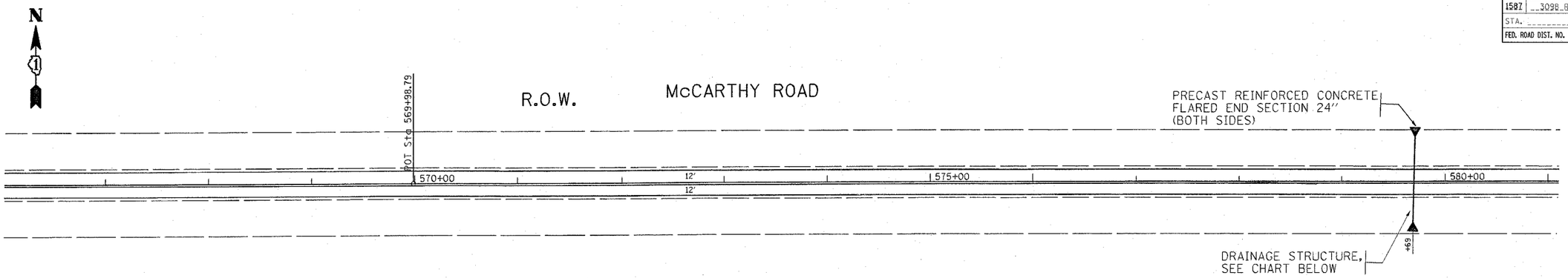
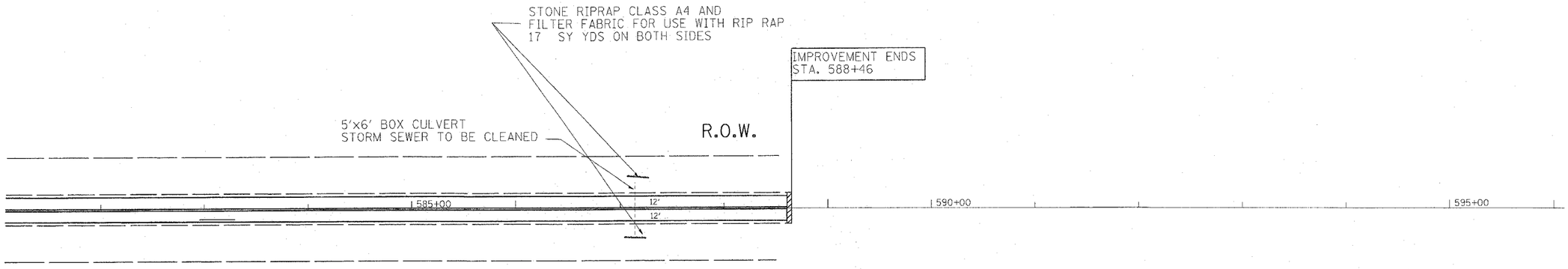
USER NAME = benkal

CONTRACT NO. 62923

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098-BS-4	COOK	32	19
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



PIPE SIZE	SHAPE	LENGTH	UPSTREAM INV.	DOWNSTREAM INV.
24"	TYPE 2 RCCP 24"	45'	692.20 (SOUTH)	692.05 (NORTH)



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MCCARTHY ROAD
PROPOSED DRAINAGE PLANS

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

PLOT DATE = 4/5/2006
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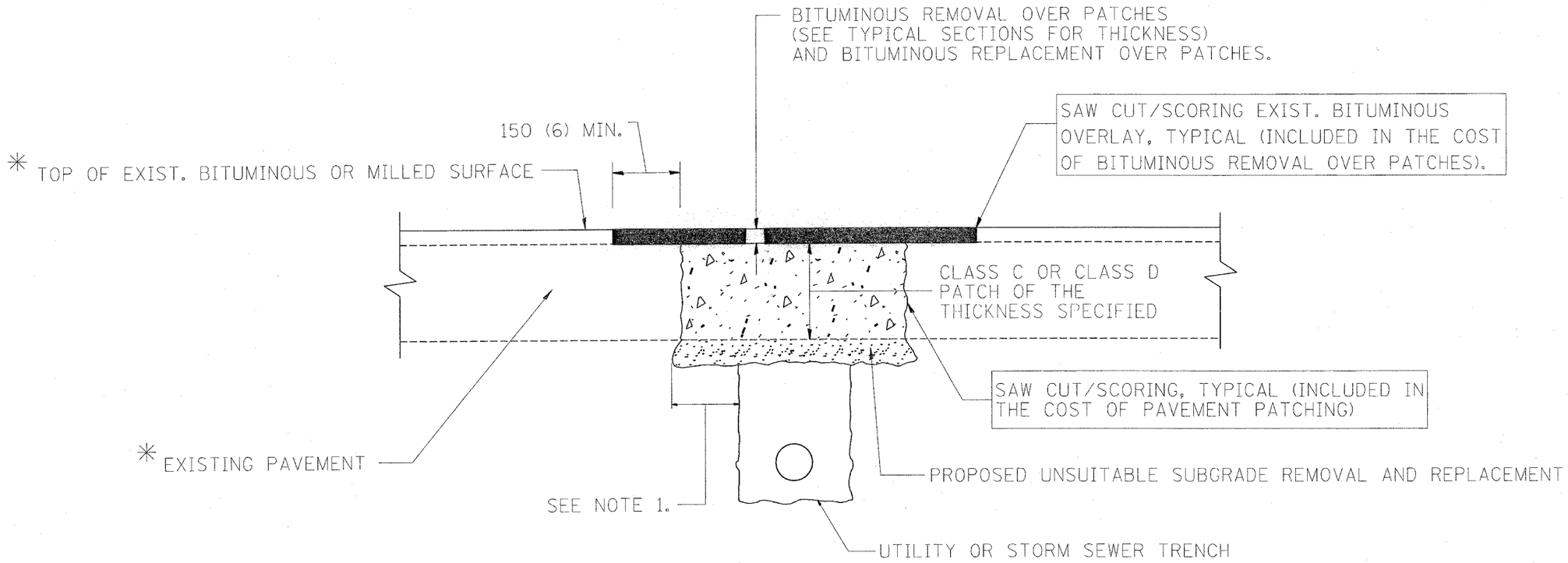
USER NAME = barwisl

CONTRACT #62923

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098RS-4	Cook	32	20
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION

1. REMOVE THE EXISTING BITUMINOUS MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE BITUMINOUS MATERIAL OVER THE AREA TO BE PATCHED.

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

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/14/95
R. SHAH	03/23/95
R. SHAH	04/24/95
A. HOUSEH	03/15/96
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR BITUMINOUS SURFACED PAVEMENT

SCALE: VERT.
HORIZ.
DATE 8/23/2005

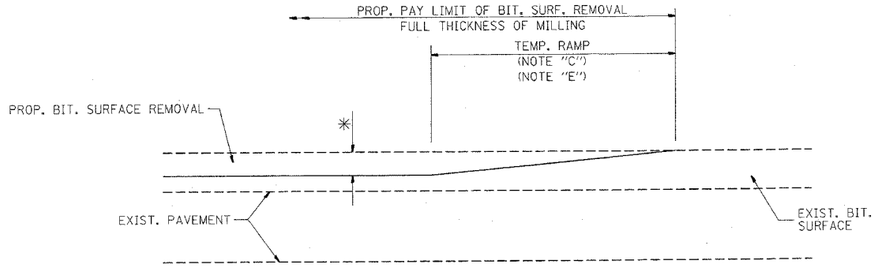
DRAWN BY
CHECKED BY

BD400-04 (BD-22)
REVISION DATE: 04/27/98

W:\dfetsd\bd22.dgn
8/23/2005
VI-BD22
banksi

CONTRACT #62923

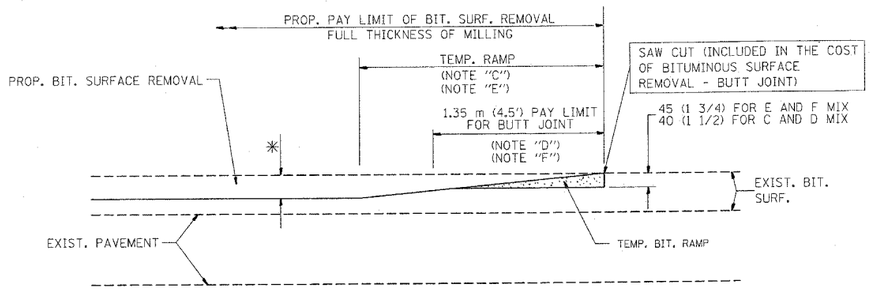
F. A. U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
1587	3098 RS-4	Cook	32	21
STA.	TO STA.			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND BIT. TAPER SEE DETAIL BELOW)

OPTION 1

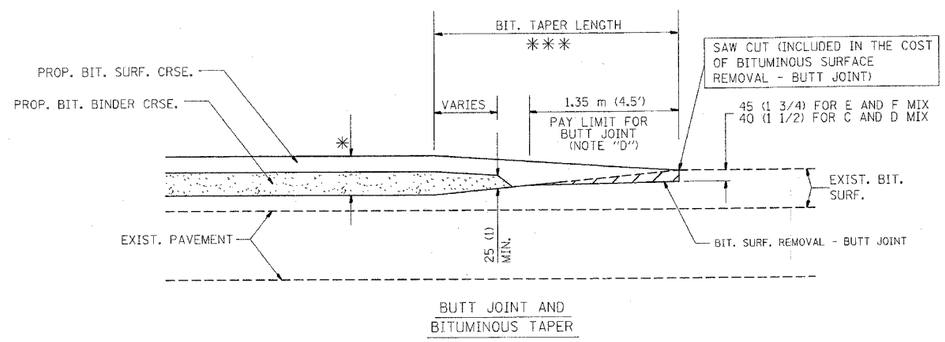


BITUMINOUS CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND BIT. TAPER SEE DETAIL BELOW)

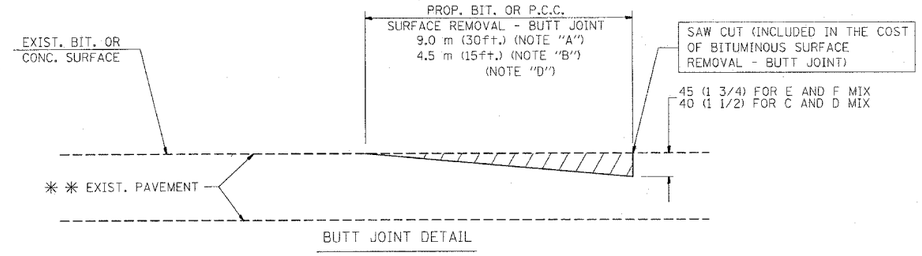
OPTION 2

TYPICAL TEMPORARY RAMP

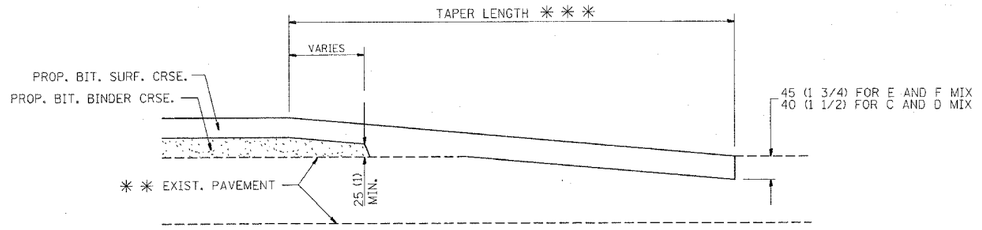


BUTT JOINT AND BITUMINOUS TAPER

TYPICAL BUTT JOINT AND BITUMINOUS TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



BITUMINOUS TAPER DETAIL

TYPICAL BUTT JOINT AND BITUMINOUS TAPER FOR RESURFACING ONLY

** PC CONCRETE, BITUMINOUS OR BITUMINOUS 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 BITUMINOUS SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED BITUMINOUS COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 900 (3 ft.) PER INCH OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 1.35 m (4.5') TEMP. BIT. RAMP WILL BE PAID AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT".

G: SEE ARTICLE 406.18 AND 406.24 OF THE STANDARD SPECIFICATIONS FOR "BITUMINOUS AND PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

*** 6.1 m (20') PER 25 (1) RESURFACING (NOTE "A")
3.0 m (10') PER 25 (1) RESURFACING (NOTE "B")

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

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR PER SQUARE METER (SQUARE YARD.) AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT" OR AS "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND BITUMINOUS TAPER DETAILS

SCALE: NONE

DRAWN BY

DATE PLOTTED: 8/23/2005

CHECKED BY

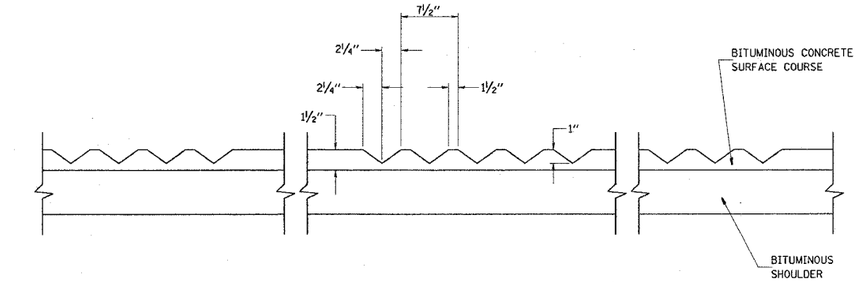
BD400-05 (VI=BD32)

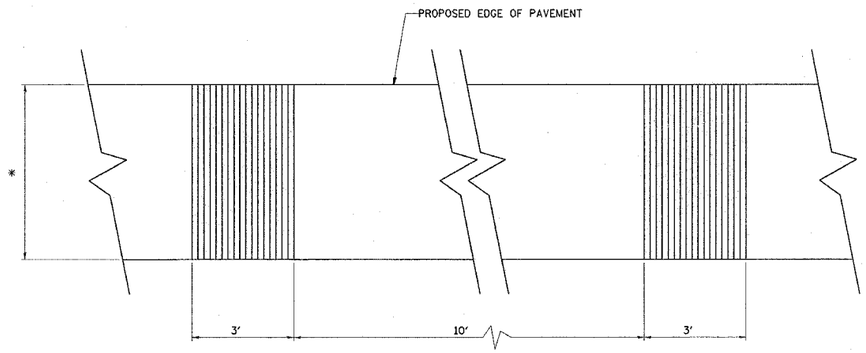
REVISION DATE: 04/06/01

8/23/2005
Whdistetr\bd32.dgn
VI=BD32
banksl

CONTRACT #62923

F. A. U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
1587	3098RS-4	COOK	32	22
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





* SEE TYPICAL CROSS SECTIONS IN THE PLANS

TYPICAL SECTION

NOTES :

1. THE PLACEMENT OF THE SURFACE COURSE SHALL BE THE FULL WIDTH OF THE BITUMINOUS SHOULDER. THE CORRUGATED SHOULDER SHALL BE CONSTRUCTED SIMULTANEOUSLY WITH THE SURFACE COURSE.

2. THE METHOD OF COMPACTING AND GROOVING THE SHOULDER SHALL BE APPROVED BY THE ENGINEER.

3. THE CONTRACTOR SHALL PROTECT THE CORRUGATED SHOULDER WITH SUITABLE SAFETY DEVICES AS WORK PROGRESSES. TO PREVENT TRAFFIC USE UNTIL THE SHOULDER HAS COOLED SUFFICIENTLY TO PREVENT DEFORMATION OF THE GROOVES, AS DIRECTED BY THE ENGINEER.

4. A SEPARATE TANDEM ROLLER SHALL BE USED IN THE CONSTRUCTION OF THE CORRUGATED SHOULDER.

5. BASIS OF PAYMENT : THE CORRUGATED SHOULDER WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR "BITUMINOUS SHOULDER" OF THE THICKNESS SPECIFIED, WHICH PRICE INCLUDES THE CONSTRUCTION OF THE GROOVED SURFACE COURSE AND ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO CONSTRUCT THE SHOULDER AS SHOWN.

CORRUGATED SHOULDER
(COOK COUNTY)

REVISIONS	
NAME	DATE
M. DE YONG	07/03/90
ART ABBAS	03/22/97

ILLINOIS DEPARTMENT OF TRANSPORTATION

CORRUGATED SHOULDER
(COOK COUNTY)

SCALE: VERT. NOT TO SCALE
HORIZ.
DATE 8/23/2005

DRAWN BY C.A.D.
CHECKED BY

BD400-07 (BD-35)

REVISION DATE: 03/22/91

8/23/2005
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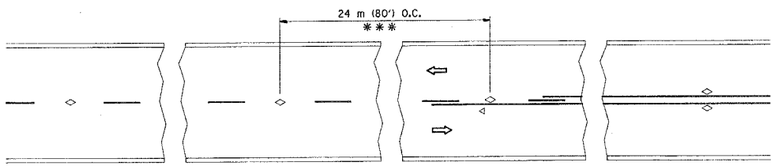
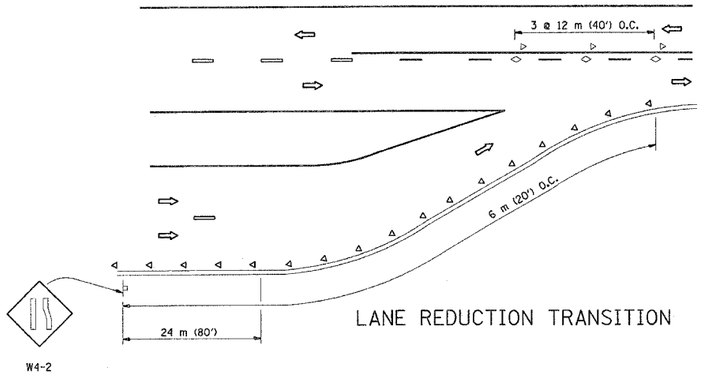
CONTRACT 62923

F. A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
1581	3098-25-4	COOK	32	23
STA.	TO STA.			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

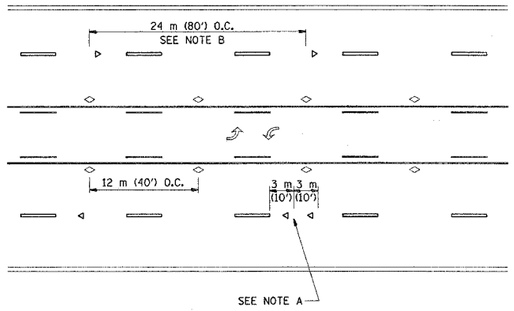


* * * REDUCE TO 12 m (40') O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 70 km/h (45 M.P.H.) OR LESS.

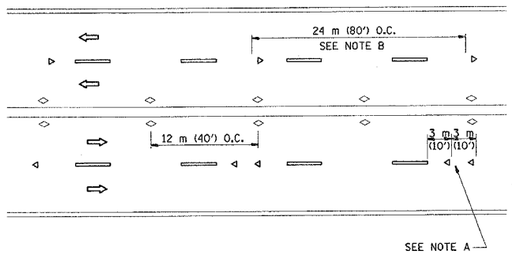
TWO-LANE/TWO-WAY



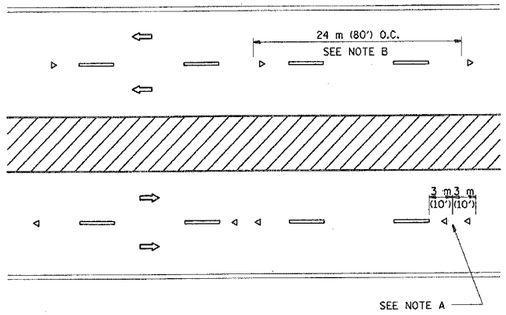
LANE REDUCTION TRANSITION



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 50 TO 75 (2 TO 3) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 150 m (500') 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

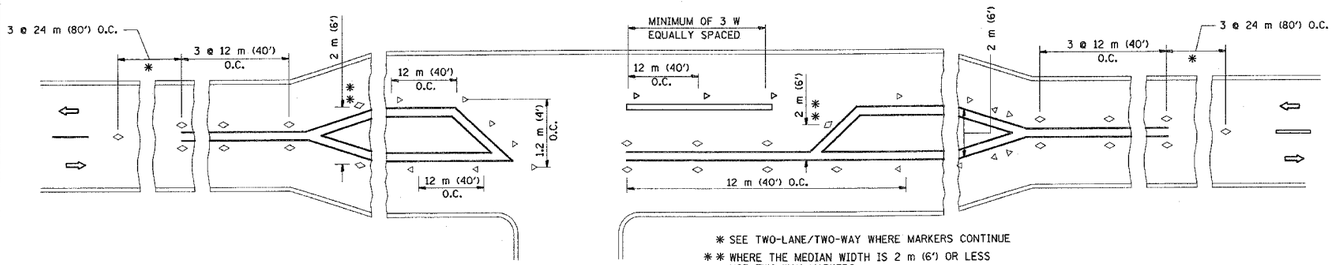
LANE MARKER NOTES

B. REDUCE TO 12 m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 20 km/h (10 M.P.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.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

* * WHERE THE MEDIAN WIDTH IS 2 m (6') OR LESS USE TWO-WAY MARKERS.

LEFT TURN

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS
(SNOW-PLOW RESISTANT)

SCALE: NONE
DATE: 8/23/2005

DRAWN BY CADD
CHECKED BY
TC-11

REVISION DATE: 01/06/00

8/23/2005
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V1-TC11
banks1

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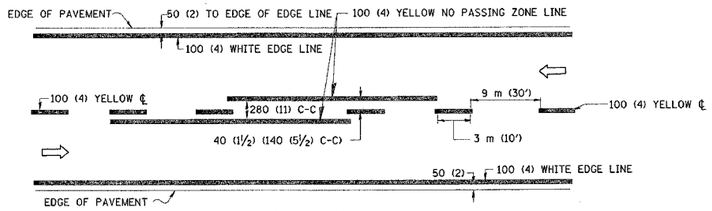
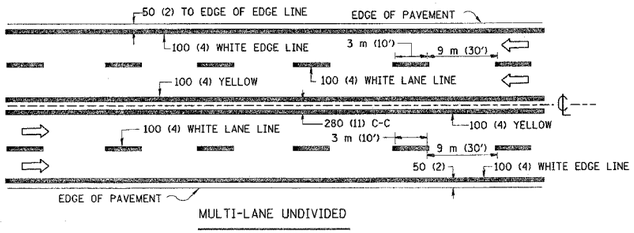
CONTRACT #62923

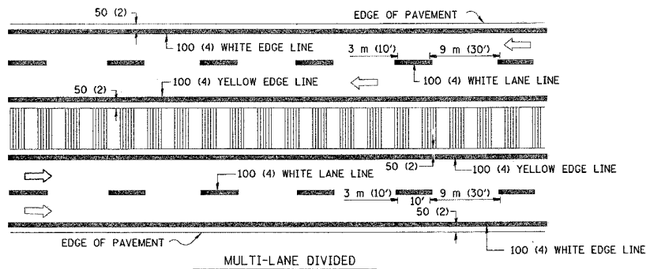
F. A. U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098RS-4	Cook	32	24
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



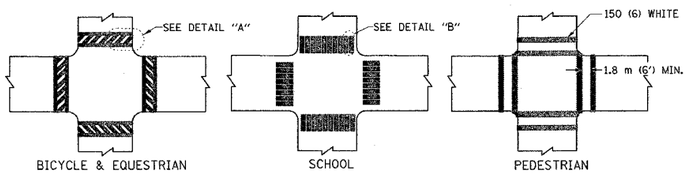
MULTI-LANE UNDIVIDED



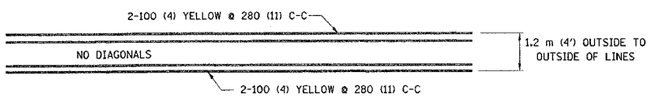
MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

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

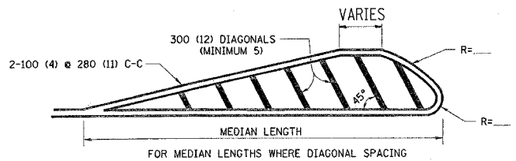
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



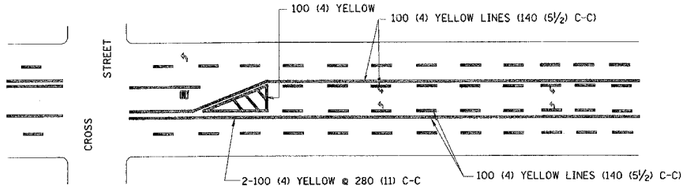
1.2 m (4') WIDE MEDIANS ONLY



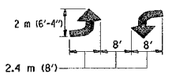
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 15 m (50') C-C (LESS THAN 50 km/h (30 MPH))
25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH))
45 m (150') C-C (MORE THAN 70 km/h (45 MPH))

MEDIANS OVER 1.2 m (4') WIDE

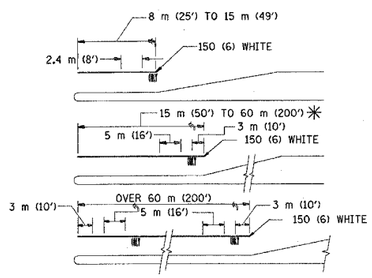


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 60 m (200') TO 90 m (300') INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

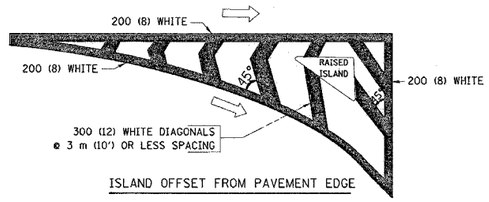


FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED.
↰ AREA = 1.5 m² (15.6 SQ. FT.) ONLY AREA = 1.9 m² (20.8 SQ. FT.)

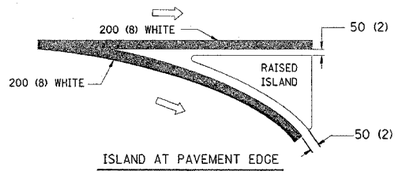
✳ TURN LANES IN EXCESS OF 120 m (400') IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	 100 (4) 2 @ 100 (4)	 SOLID SOLID	 YELLOW YELLOW	140 (5½) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) EACH DIRECTION 2.4 m (8') LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5½) 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 @ 150 (6) 300 (12) @ 45° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=0.33m² (3.6 SQ. FT.) EACH "X"=5.0 m² (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (OVER 70 km/h (45 MPH))

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

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

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE
DRAWN BY CADD
DATE 8/23/2005
CHECKED BY
TC-13

REVISION DATE: 01/06/00

8/23/2005
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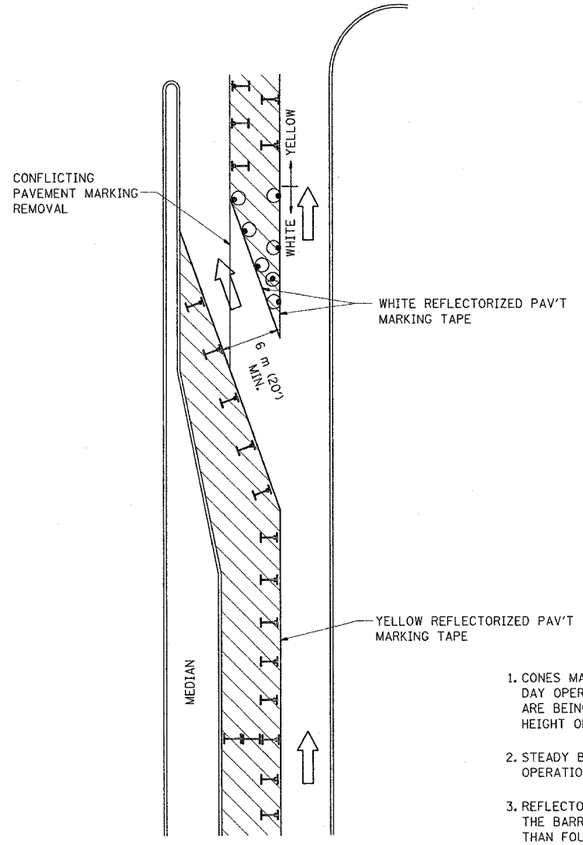
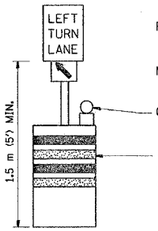
CONTRACT #62923

F. A. U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
1587	3098RS-4	COOK	32	25
STA.	TO STA.			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		





R 3-1100L 600 x 600 (24 x 24)

M6-2L 530 x 380 (21 x 15)

OPTIONAL FLASHING LIGHT

STANDARD 702001
DRUM FILLED WITH ENOUGH
SAND (BAGS) FOR STABILIZATION

GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 710 (28) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 1.5 m (5').
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" R3-100 600 x 600 (24 x 24) AND M6-2R 530 x 380 (21 x 15) 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.

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

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09/08/94
A. HOUSEH	11/07/95
A. HOUSEH	10/12/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION
AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

SCALE: NONE
DATE: 8/23/2005

DRAWN BY
CHECKED BY LHA

TC-14

REVISION DATE: 01/06/00

8/23/2005
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bonksl

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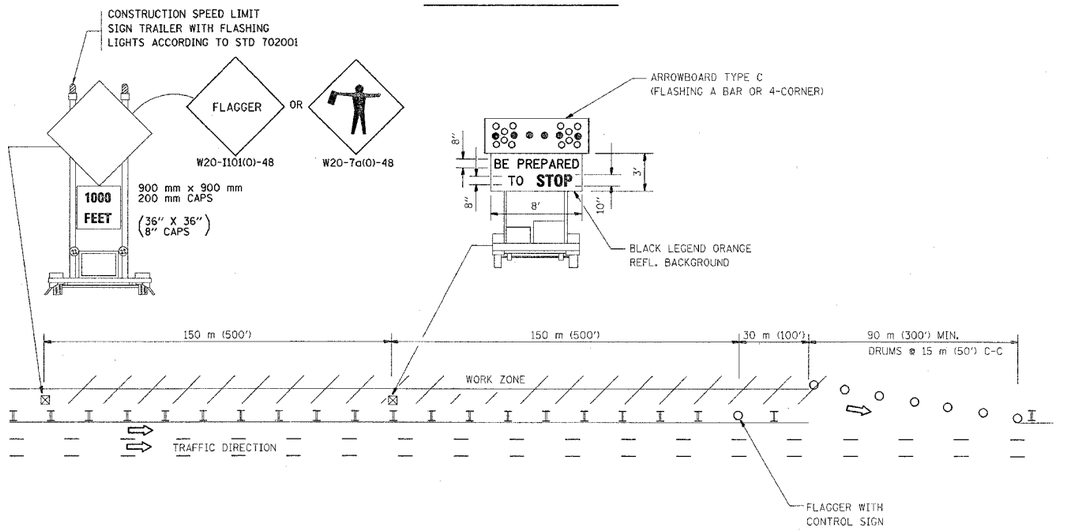
CONTRACT #62933

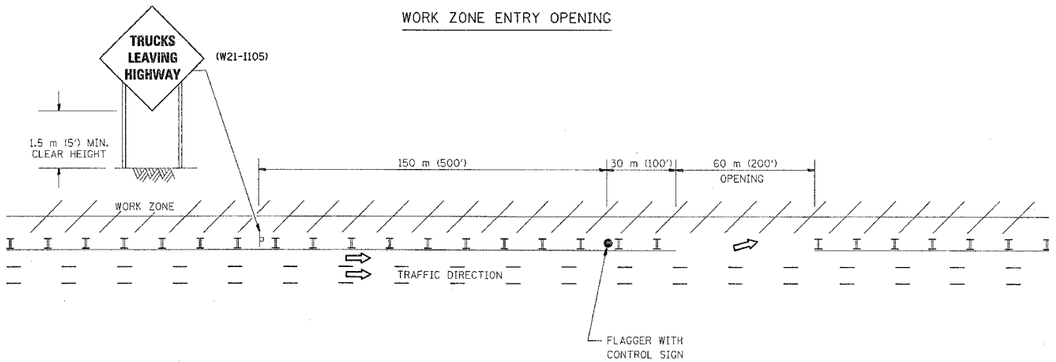
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1583	3098RS-9	COOK	32	26
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
2. Work Zone Exit Openings should be a minimum of one half mile apart.
3. Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists

ALL DIMENSIONS ARE IN MILLIMETERS
(INCHES) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
DWS	8/98
JAF	4/03

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

SCALE: NONE — DRAWN BY CADD

DATE 8/23/2005 — CHECKED BY TC-18

REVISION DATE: 04/24/03

8/23/2005
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banksl

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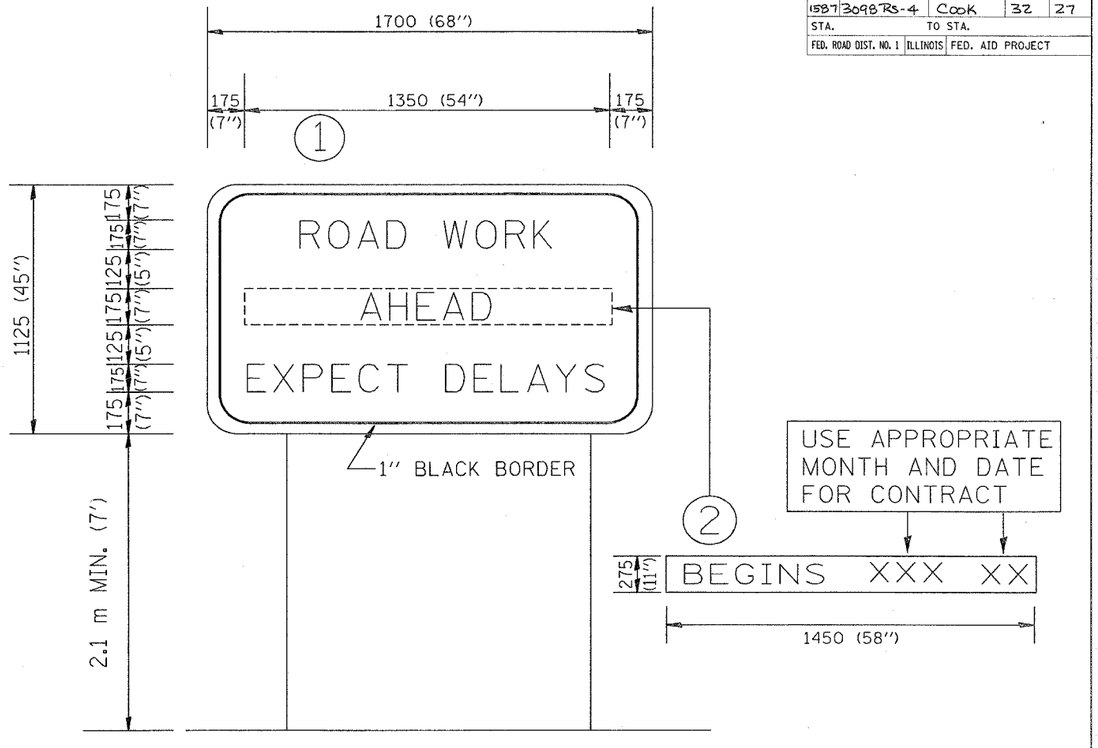
CONTRACT #62923

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098RS-4	Cook	32	27
STA.		TO STA.		
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 2.3 SQ. M. (25.70 SQ. FT.)

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

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99

ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY INFORMATION SIGNING

SCALE:

DRAWN BY: BUR. OF DESIGN

DATE 8/23/2005

CHECKED BY

TC22

REVISION DATE: 02/02/99

8/23/2005
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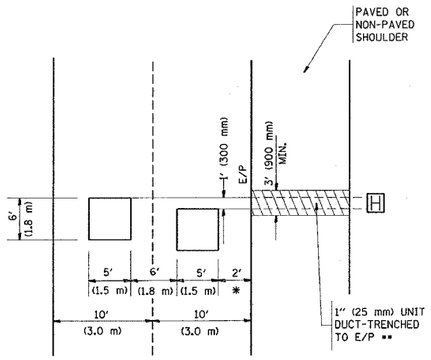
CONTRACT #62923

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098RS-4	COOK	32	28
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

LOOPS NEXT TO SHOULDERS

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

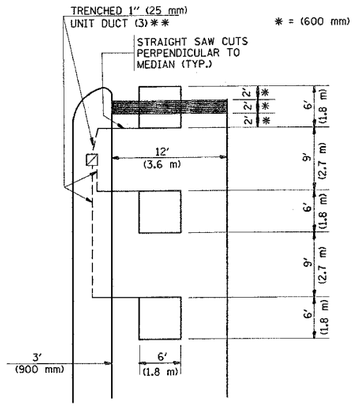


* = (600 mm)

** 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)

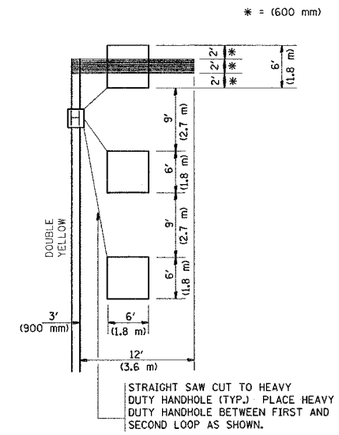
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



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

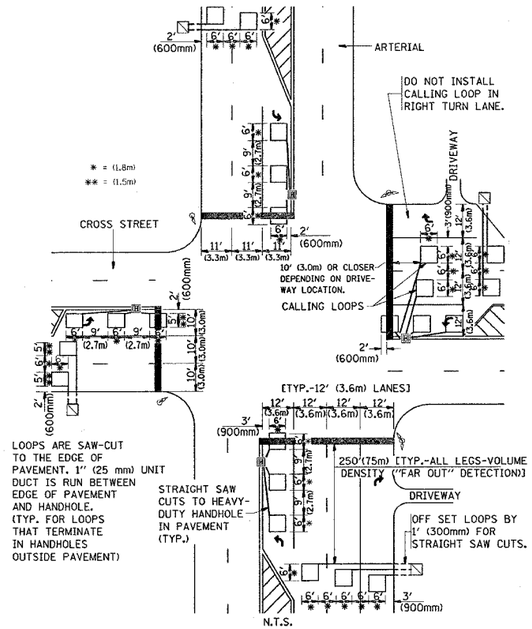
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)



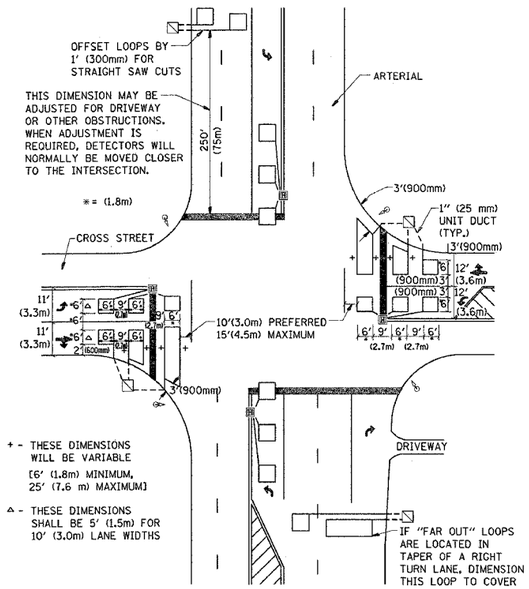
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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 SEPARATLY. 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.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

SCALE: NONE
DATE 8/23/2005
DRAWN BY CADD
DESIGNED BY
CHECKED BY R.K.F.
TS07
REVISION DATE:

8/23/2005
w:\dist1\stds\ts07.dgn
VHTSO7
banks1

CONTRACT #62923

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098 R5-4	Cook	32	29
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

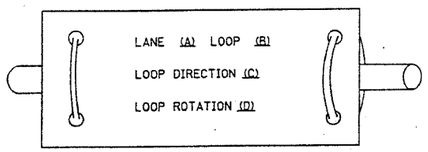
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

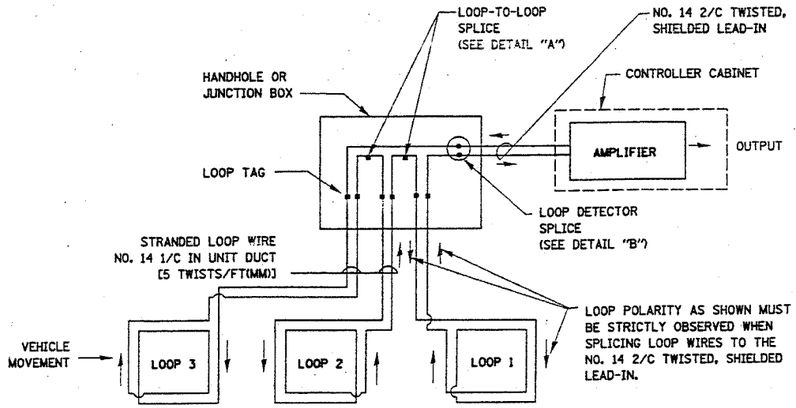


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

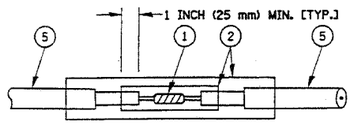
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

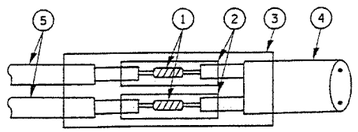


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE. THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: VERT. HORIZ. NONE
DATE 1-01-02

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET . OF .

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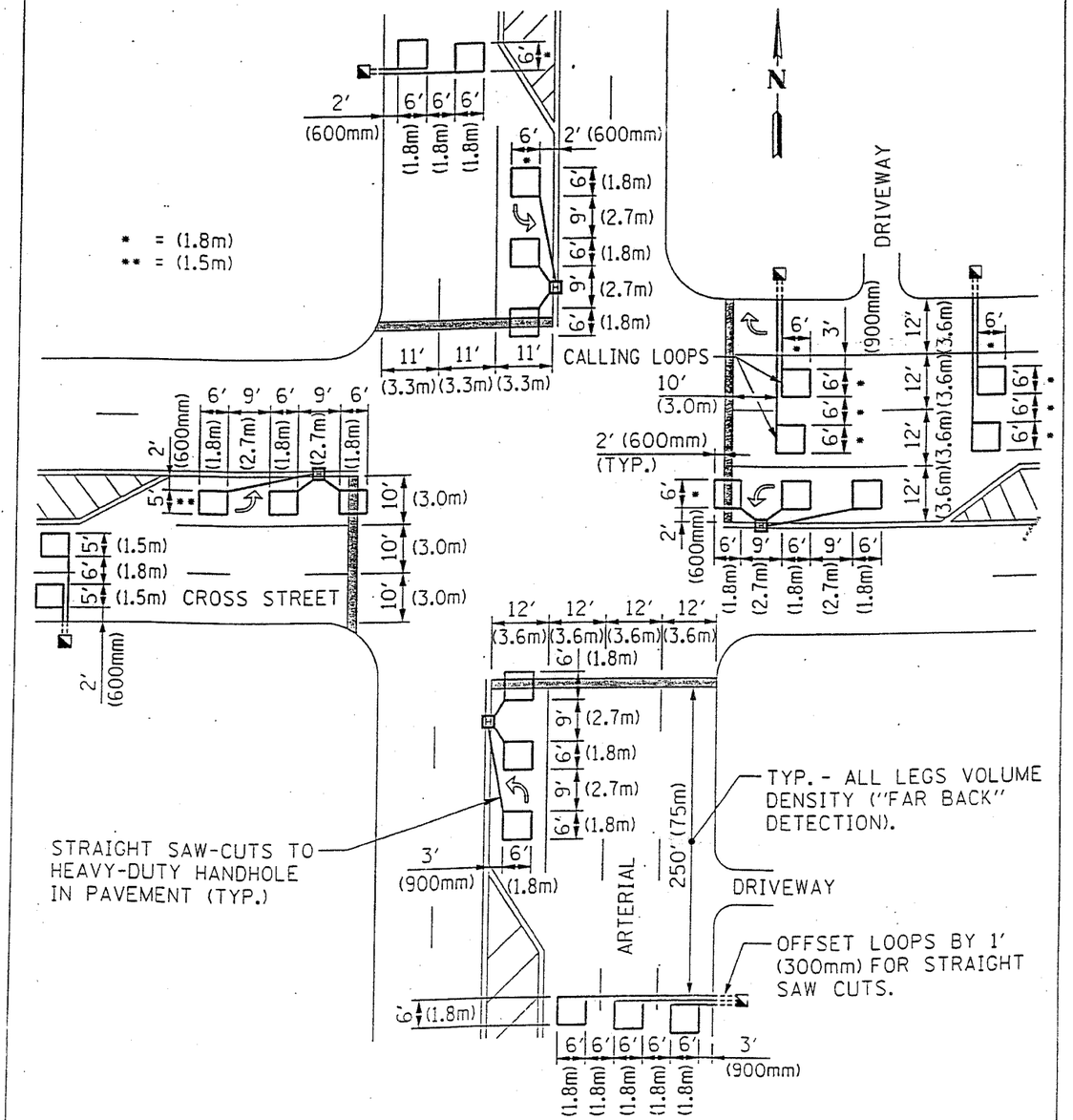
FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098RS-9	COOK	32	30
STA.		TO STA.		

CONTRACT #62923

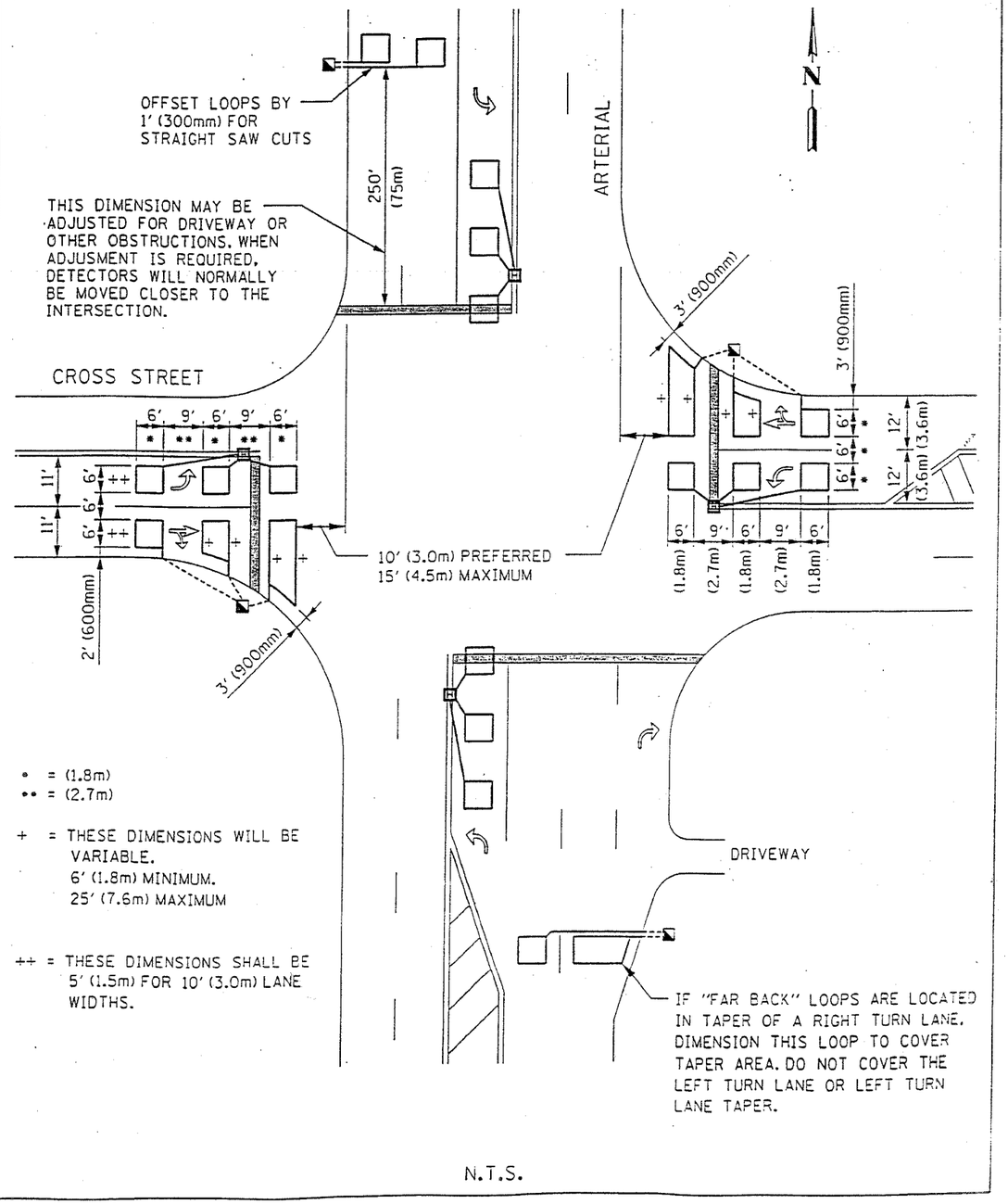
ARTERIAL-VOLUME DENSITY ("FAR BACK" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR BACK DETECTION)



LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT).

N.T.S.

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



• = (1.8m)
•• = (2.7m)

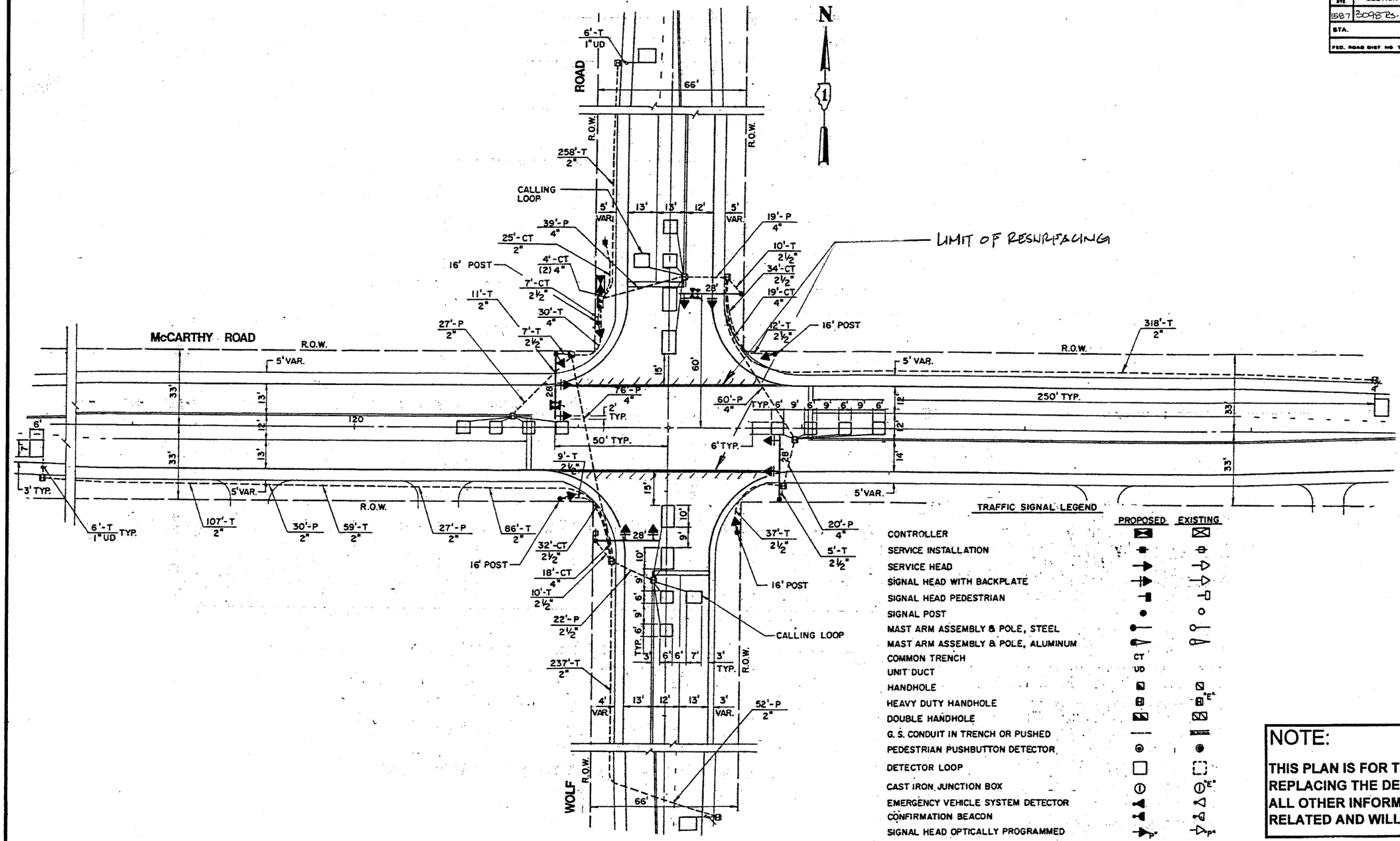
\+ = THESE DIMENSIONS WILL BE VARIABLE.
6' (1.8m) MINIMUM.
25' (7.6m) MAXIMUM

++ = THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS.

N.T.S.

CONTRACT #62928

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1587	3098Rs-4	Cook	32	31
STA.		TO STA.		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	☒	☒
SERVICE INSTALLATION	■	⊟
SERVICE HEAD	→	⇨
SIGNAL HEAD WITH BACKPLATE	⇉	⇨
SIGNAL HEAD PEDESTRIAN	■	⊓
SIGNAL POST	●	○
MAST ARM ASSEMBLY & POLE, STEEL	●—	○—
MAST ARM ASSEMBLY & POLE, ALUMINUM	●—	○—
COMMON TRENCH	CT	
UNIT DUCT	UD	
HANDHOLE	◪	◪
HEAVY DUTY HANDHOLE	⊞	⊞ "E"
DOUBLE HANDHOLE	◪◪	◪◪
G. S. CONDUIT IN TRENCH OR PUSHED	—	—
PEDESTRIAN PUSHBUTTON DETECTOR	⊙	⊙
DETECTOR LOOP	□	⬚
CAST IRON JUNCTION BOX	ⓘ	ⓘ "E"
EMERGENCY VEHICLE SYSTEM DETECTOR	◀	◁
CONFIRMATION BEACON	◀	◁
SIGNAL HEAD OPTICALLY PROGRAMMED	→"P"	⇨"P"

REPLACE ALL DETECTOR LOOPS AS SHOWN

(WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
86600600	350	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.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT

McCARTHY RD. (123 RD ST.) @ WOLF ROAD

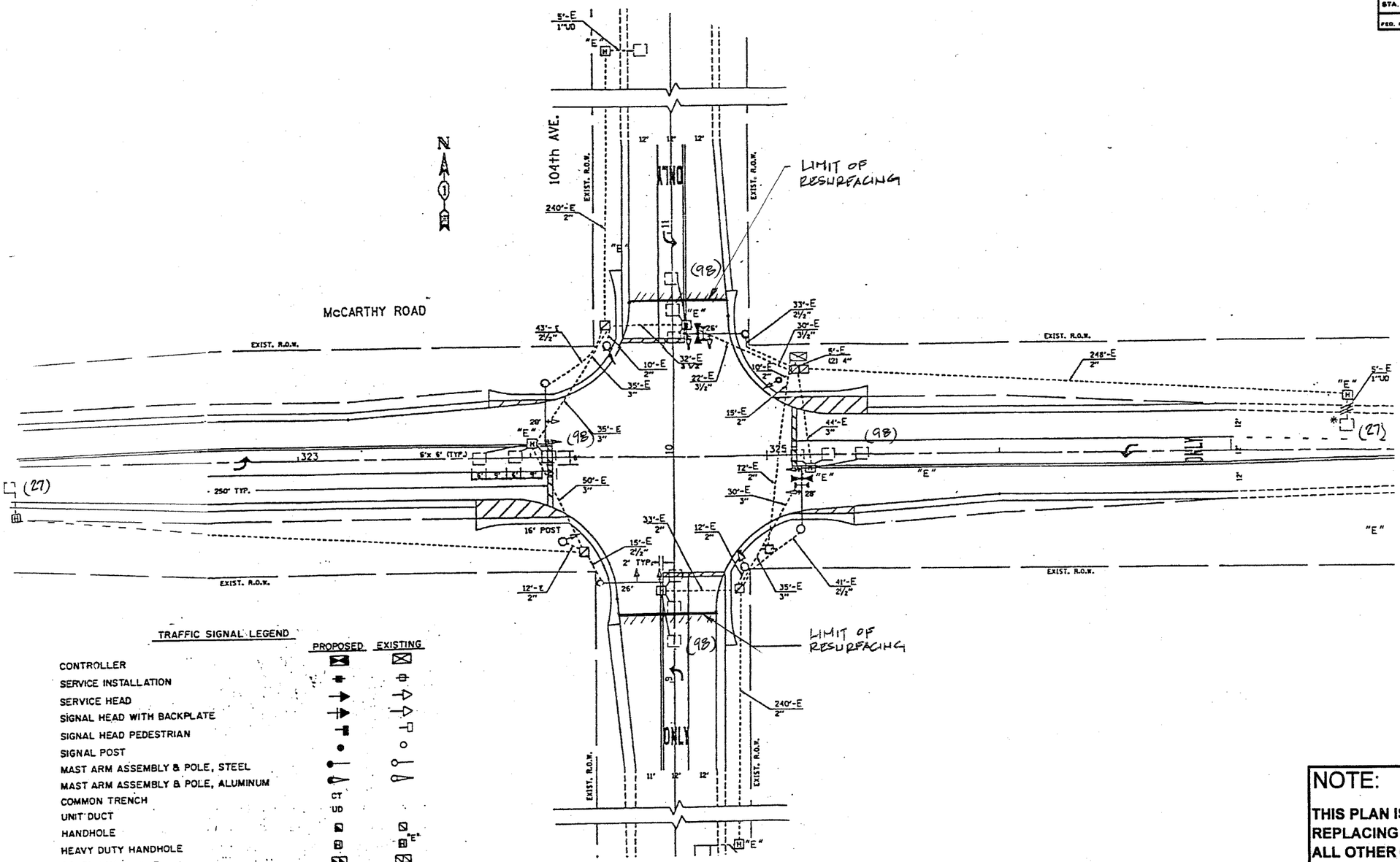
SCALE: 1" = 20'

DATE AUG. 05

DRAWN BY J.E.
DESIGNED BY:
CHECKED BY J.E.

CONTRACT # 62923

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
1587	3098RS-4	COOK	32	32
STA.		TO STA.		
FED. ROAD DIST NO 7	ILLINOIS	FED AID PROJECT		



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SERVICE HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY & POLE, STEEL		
MAST ARM ASSEMBLY & POLE, ALUMINUM		
COMMON TRENCH	CT	
UNIT DUCT	UD	
HANDHOLE		
HEAVY DUTY HANDHOLE		"E"
DOUBLE HANDHOLE		
G. S. CONDUIT IN TRENCH OR PUSHED		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		"E"
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED	"P"	"P"

REPLACE ALL DETECTOR LOOPS AS SHOWN

(WITHIN THE RESURFACING LIMITS)

CODE NO.	QUANTITY	UNIT	ITEM
86600600	446	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.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT

McCARTHY RD. (123RD ST.) @ 104TH AVE.

SCALE: 1" = 20'

DATE AUG. 05

DRAWN BY J.E

DESIGNED BY:

CHECKED BY J.E.