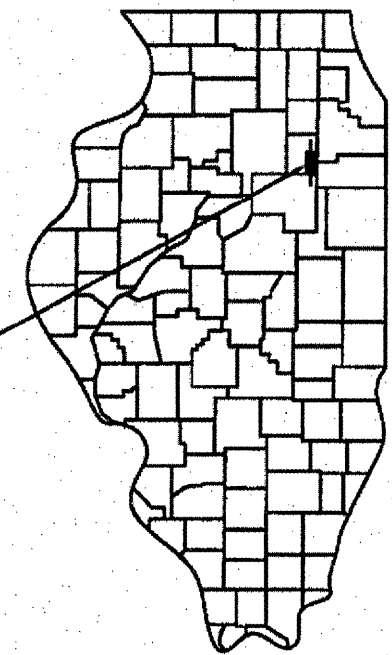


F.A. PROJECT NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
1285	05-00096-03-RS	GRUNDY	1	5
ILLINOIS PROJECT				

CONTRACT NO. 87393



PROJECT LOCATION

LOCATION OF SECTION INDICATED THUS: ———

INDEX OF SHEETS

- 1 COVER SHEET, INDEX OF SHEETS, STANDARDS, LOCATION MAP
- 2 SUMMARY OF QUANTITIES, GENERAL NOTES
- 3 TYPICAL CROSS SECTIONS, HOT-MIX ASPHALT DATA TABLE, RATES OF APPLICATION
- 4 TYPICAL ENTRANCE DETAIL, TYPICAL INTERSECTION DETAIL, TYPICAL MAILBOX TURNOUT DETAIL, TYPICAL TAPER AT BUTT JOINT, HOT-MIX ASPHALT SURFACE REMOVAL TABLE
- 5 GUARDRAIL DETAILS

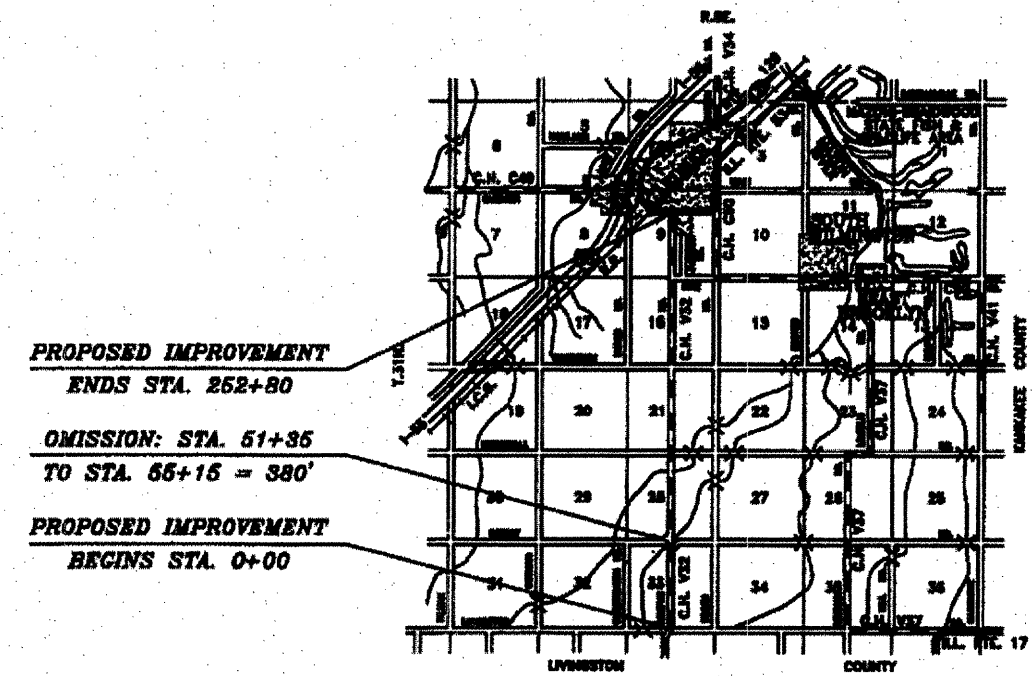
STANDARDS

- 630001-08 STEEL PLATE BEAM GUARDRAIL, 4 SHEETS
- 630301-05 TYPE 1 (SPECIAL) GUARDRAIL TERMINALS, 2 SHEETS
- 631046-04 TRAFFIC BARRIER TERMINAL, TYPE 10
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS, 3 SHEETS
- 667101-01 PERMANENT SURVEY MARKERS
- 701201-03 LANE CLOSURE, 2 LANE, 2 WAY, DAY ONLY
- 701306-02 LANE CLOSURE, 2 LANE, 2 WAY, SLOW MOVING OPERATIONS, DAY ONLY
- 701311-03 LANE CLOSURE, 2 LANE, 2 WAY, MOVING OPERATION, DAY ONLY
- 701326-03 LANE CLOSURE, 2 LANE, 2 WAY, PAVEMENT WIDENING
- 701901-01 TRAFFIC CONTROL DEVICES, 3 SHEETS
- 780001-02 TYPICAL PAVEMENT MARKINGS, 2 SHEETS
- 781001-03 TYPICAL APPLICATION, RAISED REFLECTIVE PAVEMENT MARKERS

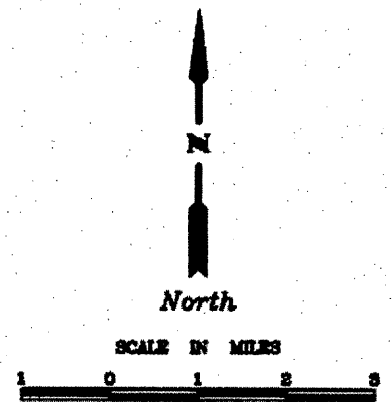
EXISTING ROAD	
8" AGG BASE CSE, 8" x 0.08 =	0.64
EXISTING OIL & CHIP =	0.20
5 1/2" HOT-MIX ASPHALT, 5 1/2" x 0.30 =	1.65
	2.49
PROPOSED IMPROVEMENT	
2 1/4" HOT-MIX ASPHALT, 2 1/4" x 0.4 =	0.90
	3.39

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
**PLANS FOR
PROPOSED LOCAL AGENCY IMPROVEMENT
FEDERAL-AID SECONDARY PROJECT**

F.A.S. ROUTE 1285, C.H. V32, CAMPUS ROAD,
SECTION 05-00096-03-RS, GRUNDY COUNTY,
PROJECT RS-1285 (103)
JOB NUMBER C-93-093-09
**RURAL MAJOR COLLECTOR
DESIGN SPEED - 50 M.P.H.**



LOCATION MAP

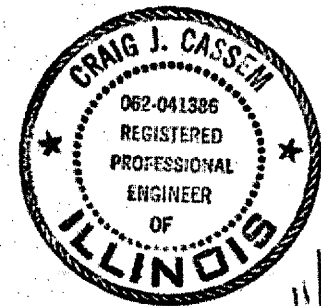


GROSS LENGTH: 25,280.00 FEET = 4.788 MILES
OMISSIONS: 380.00 FEET = 0.072 MILES
NET LENGTH: 24,900.00 FEET = 4.716 MILES

PREVIOUS CONSTRUCTION SECTIONS

4 MFT	1942
6 MFT	1943
4S-MFT	1944
36 G	1957
36 Q	1957
SM (36Q, 4S)	1974
89-00096-02-RS(SM)	1989

2009 ADT = 1,500
2013 ADT = 2,000
TF₈ = 0.216 M.U. = 5%
IBV = 4.0 S.U. = 7%
D_t = 3.09 P.V. = 88%



Expires 11/30/09

UTILITIES

J.U.L.I.E. SYSTEM - THE TOLL FREE TELEPHONE NUMBER FOR JOINT UTILITY LOCATING INFORMATION FOR EXCAVATION IS 1-800-892-0123

THE ACCEPTANCE OF THIS PROJECT IS BASED ON THE MINIMUM DESIGN CRITERIA FOR LOCAL AGENCY PAVEMENT PRESERVATION POLICY.

THESE PLANS WERE PREPARED BY ME OR BY A FULL TIME MEMBER OF MY STAFF WORKING UNDER MY PERSONAL SUPERVISION.

APPROVED 2/12 2009
Craig J. Cassem
CRAIG J. CASSEM
GRUNDY COUNTY ENGINEER

PASSED 02-19 2009
Kenneth R. Long
DISTRICT THREE ENGINEER OF
LOCAL ROADS & STREETS

APPROVED 02-19 2009
Marvin F. Ryan
DEPUTY DIRECTOR OF HIGHWAYS
REGION TWO ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

CONTRACT NO. 87393

CODE NO.	ITEM	UNIT	QUANTITY
40600100*	BITUMINOUS MATERIAL (PRIME COAT)	GALLON	6,087
40600300	AGGREGATE (PRIME COAT)	TON	122
40600615	LEVELING BINDER (MACHINE METHOD), N30	TON	300
40600982*	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	862
40600990	TEMPORARY RAMP	SQ YD	159
40603305	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N30	TON	5,500
40800050*	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	523
44000154	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/4"	SQ YD	369
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	3,000
48101200	AGGREGATE SHOULDERS, TYPE B	TON	3,835
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	6,600
△63000003	STEEL PLATE BEAM GUARD RAIL, TYPE A, 9 FOOT POSTS	FOOT	175
△63000005	STEEL PLATE BEAM GUARD RAIL, TYPE B	FOOT	100
△63100105	TRAFFIC BARRIER TERMINAL, TYPE 10	EACH	4
△63100167*	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
67100100	MOBILIZATION	L SUM	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1
70300100*	SHORT-TERM PAVEMENT MARKING	FOOT	4,984
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	6,230
△78005110*	EPOXY PAVEMENT MARKING LINE - LINE 4"	FOOT	9,030
△78005180*	EPOXY PAVEMENT MARKING LINE - LINE 24"	FOOT	104
△78100100*	RAISED REFLECTIVE PAVEMENT MARKER	EACH	320
△78200455*	BIDIRECTIONAL GUARD RAIL REFLECTORS	EACH	6
△78201000*	TERMINAL MARKER - DIRECT APPLIED	EACH	4
Z0053700*	RESETTING SURVEY MONUMENTS	EACH	9
LR403000*	BITUMINOUS HOT MIX SAND SEAL COAT (SPECIAL)	TON	3,700
XX006985*	SHOULDER EXCAVATION	CU YD	1,100

* DENOTES SPECIAL PROVISION

△ SPECIALTY ITEMS

THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

THE BITUMINOUS SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY AND IN A WORKMANLIKE MANNER; AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN IN THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR WILL BE REQUIRED TO SAW CUT THE BITUMINOUS SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN IN THE PLAN DETAILS. THIS WORK SHALL BE INCIDENTAL TO THE BITUMINOUS QUANTITIES.

THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.

FOR ALL SHORT-TERM PAVEMENT MARKINGS ON FINAL SURFACES (I.E., MAINLINE PAVEMENT), ONLY SHORT-TERM PAVEMENT MARKING TAPE SHALL BE USED.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

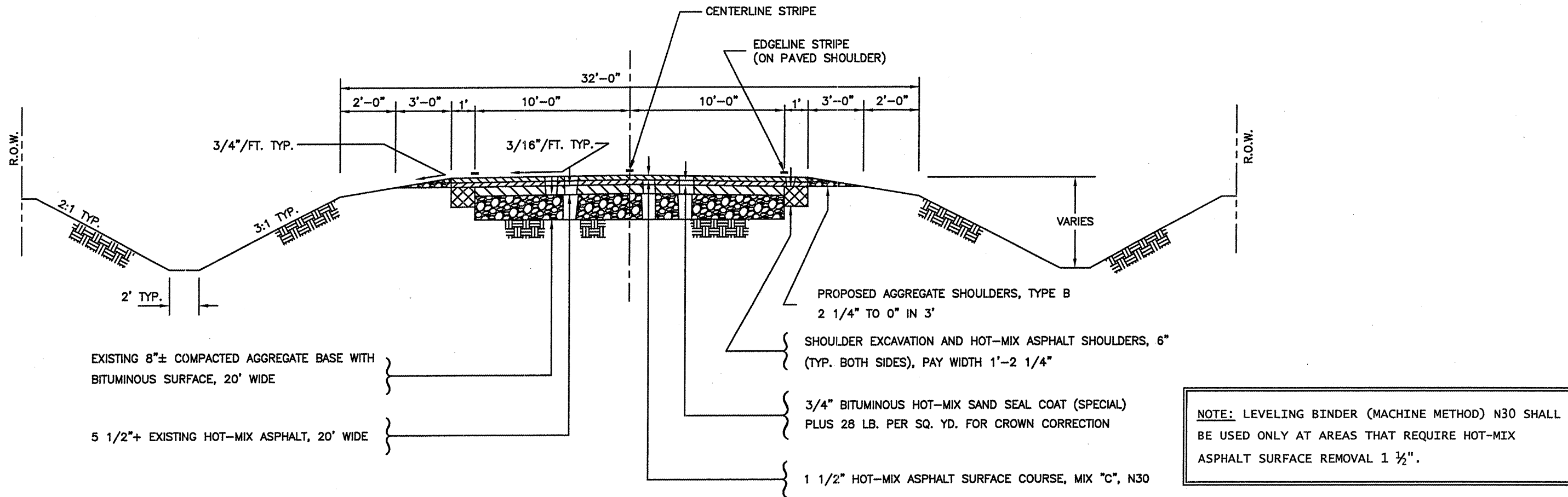
STATE OF ILLINOIS
COUNTY OF GRUNDY
COUNTY ENGINEER

DRAWN: D.M.B.	CHECKED: C.J.C.	SCALE: NONE	DATE: 1-9-09
REVISED:	2-13-09		

TYPICAL CROSS-SECTION DETAIL
STA. 0+00 TO STA. 252+80

CO. HWY. V32 SECTION: 05-00096-03-RS
 GRUNDY COUNTY, ILLINOIS
 SHEET 3 OF 5

CONTRACT NO. 87393



NOTE: LEVELING BINDER (MACHINE METHOD) N30 SHALL BE USED ONLY AT AREAS THAT REQUIRE HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2".

HOT-MIX ASPHALT DATA TABLE

	BINDER, WIDENING, CLASS D PATCHES	SURFACE	LEVEL BINDER	BIT. HOT-MIX SAND SEAL COAT SPECIAL	INCIDENTAL SURFACING
PG GRADE	PG64-22	PG58-22	PG58-22	PG58-22	PG58-22
MAX % RAP ALLOWABLE**	25%	15%	15%	NONE	15%
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N30	4.0% @ N30	N/A	4.0% @ N30
MIXTURE COMPOSITION	IL 19.0	IL 12.5 OR IL 9.5	IL 9.5	IL 9.5 OR FA-22	IL 12.5 OR IL 9.5
FRICION AGGREGATE		MIXTURE C			MIXTURE C
DENSITY TEST METHOD	NUCLEAR/ CORES	CORRELATION	SATISFACTION OF ENGINEER	SATISFACTION OF ENGINEER	SATISFACTION OF ENGINEER

** IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.10	TON/CU YD
BITUMINOUS MATERIALS PRIME COAT	0.10	GAL/SQ YD (RC 70) OR 0.40 GAL/SQ YD (MC 30)
AGGREGATE PRIME COAT	0.002	TONS/SQ YD
HOT-MIX ASPHALT - WIDENING, LEVEL BINDER, BINDER AND SURFACE COURSE	112	LBS/SQ YD/INCH
SHORT-TERM PAVEMENT MARKING	10	FT/100 FT OF APPLICATION

STATE OF ILLINOIS
 COUNTY OF GRUNDY
 COUNTY ENGINEER

DRAWN: D.M.B.	CHECKED: C.J.C.	SCALE: NONE	DATE: 12-22-08
REVISED:	2-10-09		

CONTRACT NO. 87393

TYPICAL MAILBOX TURNOUT DETAIL

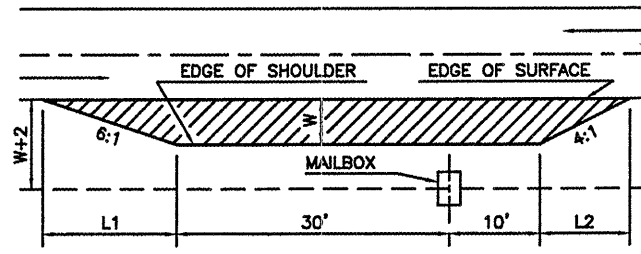
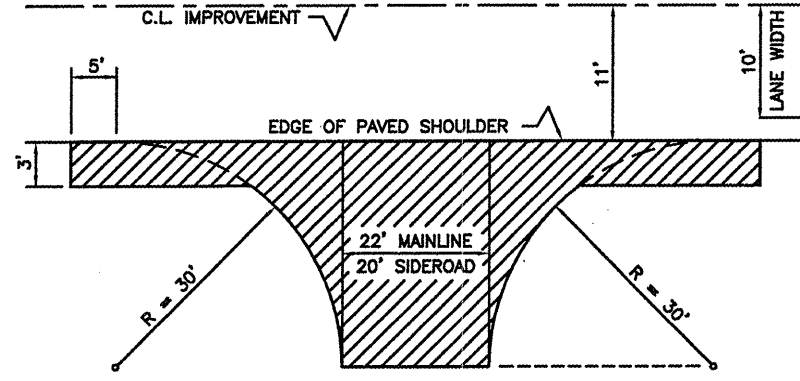


TABLE					
W	8'	6'	5'	4'	3'
L1	48'	36'	30'	24'	18'
L2	32'	24'	20'	16'	12'
SQ.YDS.	71	47	36	27	18

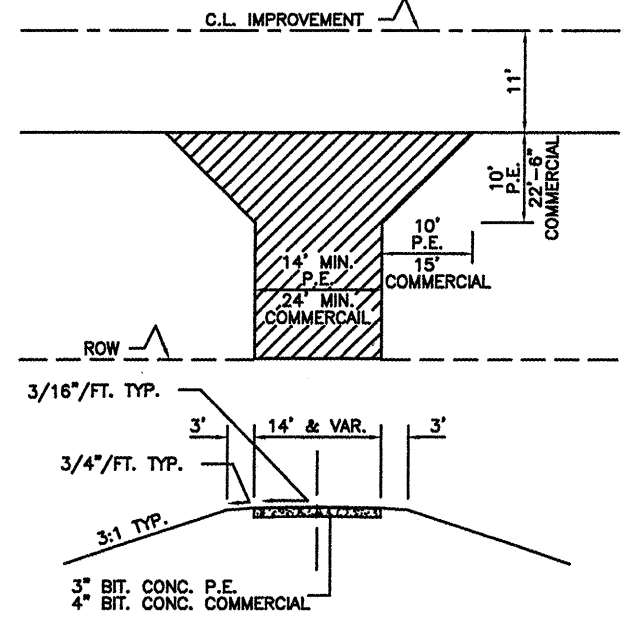
STATION	SIDE	SQ.YD.
30+72	RT	27
143+83	RT	27
181+80	RT	27
186+10	LT	27
199+70	LT	27
243+15	RT	27
250+75	LT	27
TOTALS		189

TYPICAL INTERSECTION DETAIL



NAME	STATION	SIDE	SQ.YD.	TONS
SCULLY ROAD	52+14	RT	119	20
SCULLY ROAD	54+54	LT	119	20
STONEWALL ROAD	106+49	LT	119	20
STONEWALL ROAD	106+49	RT	119	20
GOODFARM ROAD	159+80	LT	119	20
GOODFARM ROAD	159+80	RT	119	20
RICE ROAD	213+25	LT	119	20
TOTALS			833	140

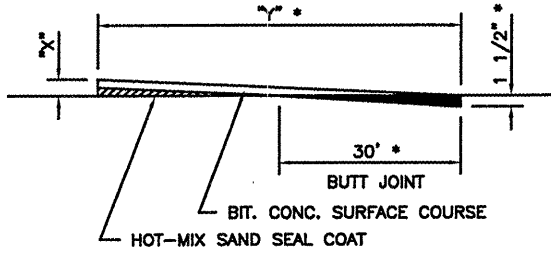
TYPICAL PRIVATE & COMMERCIAL ENTRANCE



INCIDENTAL BITUMINOUS SURFACING

STATION	SIDE	TYPE	SQ.YD.	TONS
30+55	LT	P.E.	56	9.4
31+58	RT	P.E.	56	9.4
143+68	LT	P.E.	56	9.4
181+60	RT	P.E.	56	9.4
186+30	LT	P.E.	56	9.4
199+90	LT	P.E.	56	9.4
236+05	RT	P.E.	157	26.4
237+20	RT	P.E.	157	26.4
238+15	RT	P.E.	157	26.4
238+90	RT	P.E.	157	26.4
241+05	RT	P.E.	157	26.4
241+95	RT	P.E.	157	26.4
243+00	RT	P.E.	157	26.4
243+90	RT	P.E.	157	26.4
244+90	RT	P.E.	157	26.4
247+75	RT	P.E.	157	26.4
248+15	RT	P.E.	157	26.4
249+60	RT	P.E.	157	26.4
251+00	LT	P.E.	56	9.4
TOTALS			2,276	383

TYPICAL TAPER AT BUTT JOINT



"X" = PROPOSED PAVEMENT THICKNESS

"X"	"Y"
1"	20'
1 1/2"	30'
2"	40'
2 1/2"	50'
3"	60'
3 1/2"	70'
4"	80'

* NOTE: BUTT JOINTS AT BRIDGES SHALL BE 2" TO 0" IN 50', "Y" SHALL BE 80'. BUTT JOINTS AT PRIVATE AND COMMERCIAL ENTRANCES SHALL BE 18".

STATION	SIDE	SQ.YD.	STATION	SIDE	SQ.YD.
0+00	C.L.	73.3	159+80	LT	73.3
51+35	C.L.	73.3	159+80	RT	73.3
55+15	C.L.	73.3	213+25	RT	73.3
95+01	C.L.	73.3	252+80	C.L.	73.3
96+52	C.L.	73.3			
106+49	LT	73.3	14 ENTRANCES		
106+49	RT	73.3	@ 4 SQ.YDS. =		56
			TOTAL		862

TYPICAL FIELD ENTRANCE DETAIL

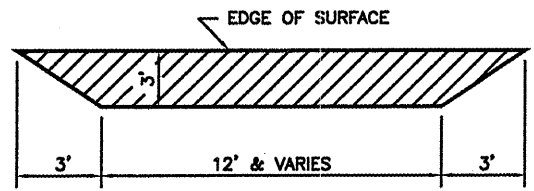


TABLE OF FIELD ENTRANCES

STATION	SIDE	SQ.YD.
VARIES	LT & RT	30 @ 6
TOTAL		180

HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"

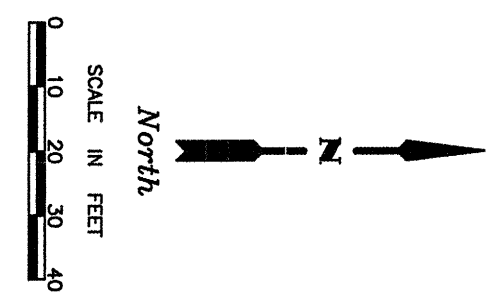
STATION TO STATION	SIDE	SQ.YD.
44+35 TO 51+35	N. BOUND	778
55+15 TO 62+15	N. BOUND	778
41+35 TO 51+35	S. BOUND	111
55+15 TO 56+15	S. BOUND	111
ADDITIONAL AREAS AS DIRECTED BY THE ENGINEER =		1,222
TOTAL		3,000

HOT-MIX ASPHALT SURFACE REMOVAL 1 1/4"

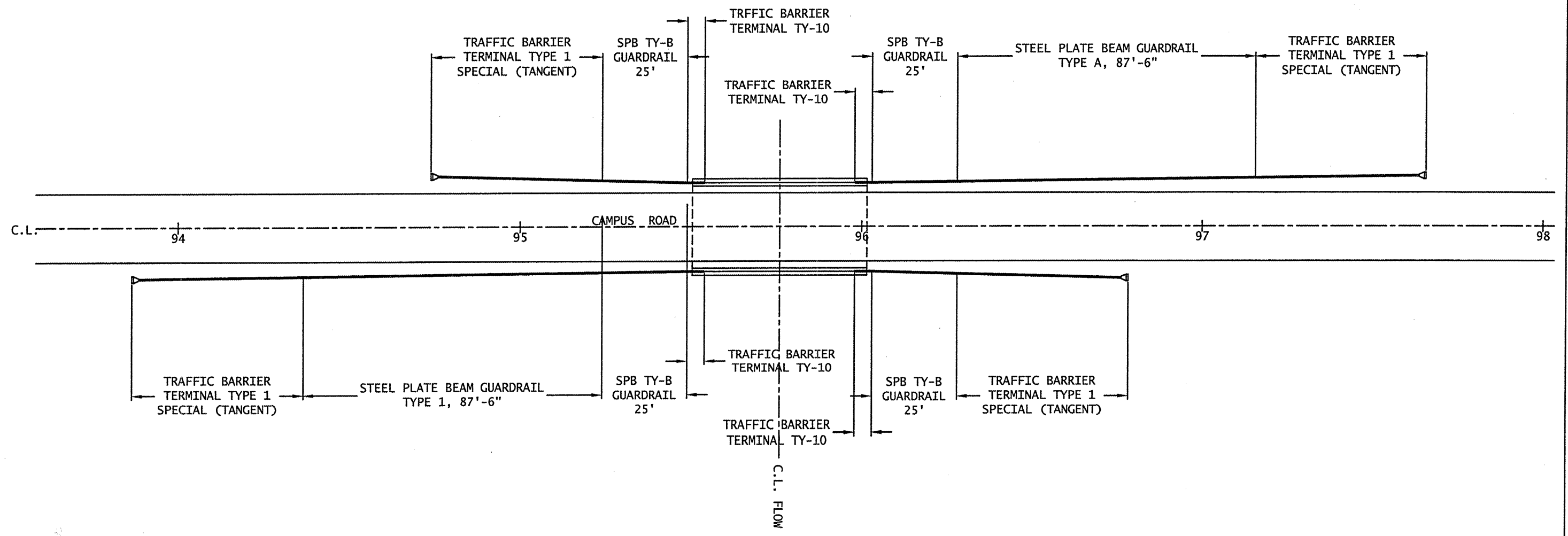
STATION TO STATION	SIDE	SQ.YD.
95+01 TO 96+52	BOTH	369
TOTAL		369

CONTRACT NO. 87393

CAMPUS ROAD
SECTION: 05-00096-03-RS
GUARDRAIL DETAILS
BRIDGE STA. 95+76



STRUCTURE NO. 032-3380
GUARDRAIL DETAILS



STATE OF ILLINOIS COUNTY OF GRUNDY COUNTY ENGINEER			
DRAWN: D.M.B.	CHECKED: C.J.C.	SCALE: As Noted	DATE: 1-5-09
REVISED:			