

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

FAU RTE. 3598 (VINCENNES ROAD)
THORNTON RD. TO HALSTED ST. (IL 1)
ROADWAY RESURFACING
SECTION NO. 09-00020-00-RS
PROJECT NO: ARA-9003(575)
JOB NO: C-91-714-09
VILLAGE OF PHOENIX
COOK COUNTY

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3598	09-00020-00-RS	COOK	13	1
STA. 14+16.89		TO STA. 41+04.91		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63365				



INDEX TO SHEETS:

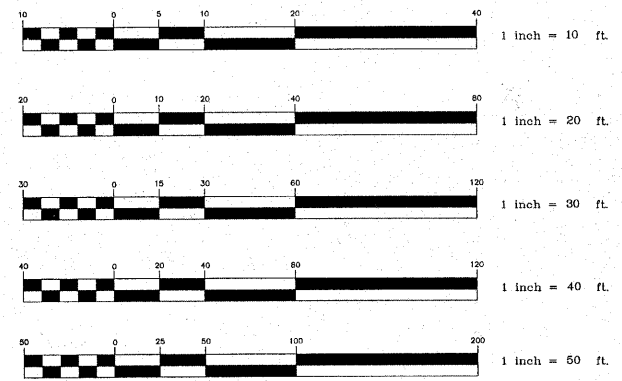
SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	GENERAL NOTES
3.	SUMMARY OF QUANTITIES, HMA MIXTURES CHART, & DRIVEWAY DETAIL
4.	TYPICAL CROSS-SECTIONS
5-7.	PLAN SHEETS
8.	PAVEMENT MARKING PLAN
9.	DISTRICT 1 DETAIL-TC10-TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS
10.	DISTRICT 1 DETAIL-TC13-TYPICAL PAVEMENT MARKINGS
11.	DISTRICT 1 DETAIL-BD8-DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
12.	DISTRICT 1 DETAIL-BD24-CURB OR CURB AND GUTTER R&R
13.	DISTRICT 1 DETAIL-BD32-BUTT JOINT AND HMA TAPER DETAIL

HIGHWAY STANDARDS:

000001-05:	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-05:	SIDEWALK RAMPS ACCESSIBLE TO THE HANDICAPPED
606001-04:	CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER
701606-06:	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701801-04:	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01:	TRAFFIC CONTROL DEVICES
780001-02:	TYPICAL PAVEMENT MARKINGS

POSTED SPEED LIMIT = 30 MPH
DESIGN SPEED LIMIT = 30 MPH

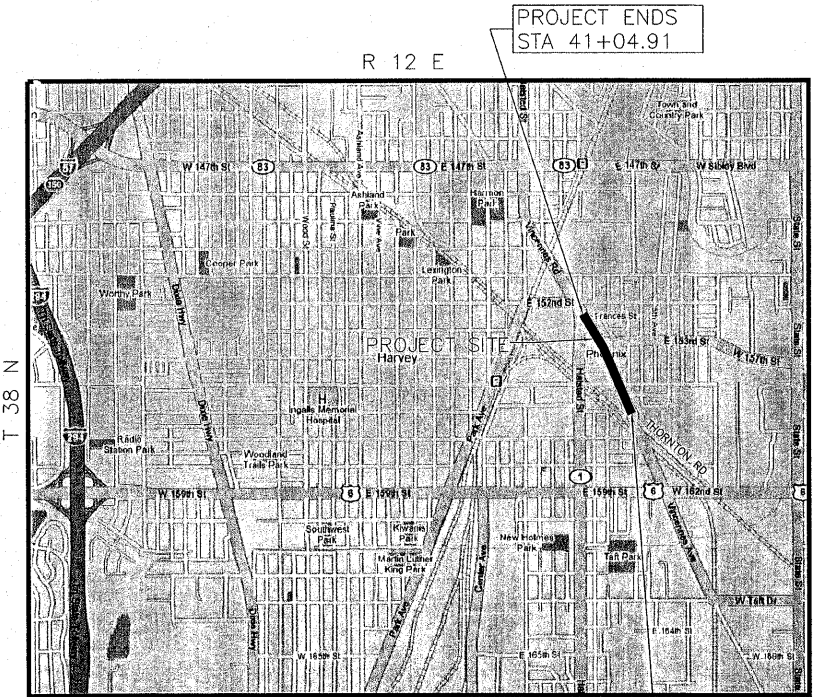
ADT=4150 (2007)



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 FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 63365



PROJECT ENDS
STA 41+04.91

PROJECT BEGINS
STA 14+16.89

DESIGN DESIGNATION - 450(19) COLLECTOR 0.91 (FD-20)
GROSS LENGTH OF PROJECT 2688 FEET (0.51 MILES)
NET LENGTH OF PROJECT 2688 FEET (0.51 MILES)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED 11/23/2009
[Signature]
VILLAGE OF PHOENIX, PRESIDENT

PASSED DECEMBER 3/2009
[Signature]
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW DECEMBER 9/2009
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS/REGION 1 ENGINEER

AKHRAS ASSOCIATES, INC.
A DESIGN FIRM REGISTERED IN THE STATE OF ILLINOIS
LICENSE No. 184-000690
9306 S. IDELL AVENUE • BRIDGEVIEW, IL 60455
TEL. (708) 599-1101 • FAX. (708) 599-2258



[Signature]

(PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS)

FIELD ENGINEER: MELCHOR MANGOBA 1-847-705-4408
CONSULTANT: AKHRAS ASSOCIATES, INC. 1-708-599-1101

FILE 2009-09-22

GENERAL NOTES

CONSTRUCTION WILL BE PERFORMED IN ACCORDANCE WITH ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2007, ETC.

UTILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNER OF ALL EXISTING FACILITIES SO THAT THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS. THE CONTRACTORS SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS.

THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM AND SANITARY SEWERS, WATER SERVICE LINES AND OTHER UTILITY LINES ARE APPROXIMATE, AND THE VILLAGE DOES NOT GUARANTEE THEIR ACCURACY, THEIR EXACT HORIZONTAL AND VERTICAL LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AT HIS OWN EXPENSE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER OR THE VILLAGE. THIS WORK SHALL BE AT THE CONTRACTORS EXPENSE.

COORDINATION OF ALL UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT THE PRECONSTRUCTION CONFERENCE.

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

STORM SEWER

WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST FOR FRAMES AND LIDS TO BE ADJUSTED.

ANY EXISTING OR PROPOSED STORM SEWER DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE VILLAGE.

RESTORATION

CONTRACTOR IS TO RESTORE ALL UNPAVED AREAS DAMAGED DURING CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITION INCLUDING THE FINE GRADING AND SEEDING OF AREAS WITHIN EASEMENTS AND RIGHTS-OF-WAY.

STAGING

NO FORMAL STAGING OF TRAFFIC FLOW WILL BE REQUIRED.

MISCELLANEOUS

ACCESS: THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT, EXCEPT FOR PERIODS OF SHORT DURATION, THE COST TO PROVIDE ACCESS WILL BE PAID FOR AS TEMPORARY RAMPS.

DIMENSIONS: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.

ALL SAWCUTTING SHALL BE INCLUDED IN THE UNIT OF COST OF REMOVAL ITEMS AND SHALL BE PERFORMED PRIOR TO BEGINNING REMOVAL. ANY ITEMS OF WORK REMOVED PRIOR TO SAWCUTTING WILL NOT BE MEASURED FOR PAYMENT.

BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED. (ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.) TYPE III BARRICADES SHALL HAVE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.

ANY EXISTING PAVEMENT DAMAGED BY THE CONTRACTOR DURING THE CONSTRUCTION SHALL BE REPLACED/REPAIRED BY THE CONTRACTOR AT HIS/HERS OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER WITH NO ADDITIONAL COMPENSATION TO THE CONTRACTOR.

STAKING

THE CONTRACTOR SHALL TAKE CARE TO PROTECT AND PRESERVE ALL STAKING AND MARKING DURING CONSTRUCTION. CONTINUOUS DESTRUCTION OF STAKES AS A RESULT OF CARELESSNESS MAY RESULT IN DAMAGES.

PAY ITEMS IN THE SUMMARY OF QUANTITIES HAVE BEEN ESTIMATED, IF, IN THE ENGINEER'S OPINION, THE WORK IS NOT REQUIRED, THE ITEM WILL BE DEDUCTED FROM THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE BITUMINOUS MATERIAL (PRIME COAT) QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 0.10 GAL/S.Y.

AKHRAS ASSOCIATES, Inc. SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK. THEY SHALL BE NOTIFIED AT LEAST 72 HOURS IN ADVANCE IF CONSTRUCTION STAKING IS REQUIRED.

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3598	09-00020-00-RS	COOK	13	2
STA. 14+16.89		TO STA. 41+04.91		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO.63365				

AKHRAS ASSOCIATES, INC.
 A DESIGN FIRM REGISTERED IN THE STATE OF ILLINOIS
 LICENSE No. 184-000690
 9306 S. IDELL AVENUE • BRIDGEVIEW, IL 60455
 TEL. (708) 599-1101 • FAX. (708) 599-2258

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION VILLAGE OF PHOENIX VINCENTS ROAD RESURFACING THORNTON RD. TO HALSTED ST.
NAME	DATE	
JMH PER DOT	10.01.09	GENERAL NOTES SCALE: N.T.S. HORIZ: N.T.S. DATE: 09/15/09 DRAWN BY: JMH CHECKED BY: SAL
JMH PER REVIEW	11.17.09	

THE 058#10-2

SUMMARY OF QUANTITIES

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3598	09-00020-00-RS	COOK	13	3
STA. 14+16.89		TO STA. 41+04.91		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63365				

ITEM No.	ITEMS	UNITS	1000 QTY.
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	321
25000100	SEEDING, CLASS 1	ACRE	0.07
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	7
25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	7
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	7
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1375
40600300	AGGREGATE (PRIME COAT)	TON	10
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	20
40600982	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	SQ YD	236
40600990	TEMPORARY RAMP	SQ YD	1447
40603080	HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50	TON	1985
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	1163
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1,855
42400800	DETECTABLE WARNINGS	SQ FT	440
44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	13,510
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	35
44000600	SIDEWALK REMOVAL	SQ FT	1838
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	572
44200934	CLASS B PATCHES, TYPE II, 8 INCH	SQ YD	1500
44300100	AREA REFLECTIVE CRACK CONTROL TREATMENT	SQ YD	13,510
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	23
67100100	MOBILIZATION	L SUM	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	700
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	250
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4821
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1523
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	8
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	32
Z0017202	DOWEL BARS 1:1/2"	EACH	1800

* DENOTES SPECIALTY ITEM

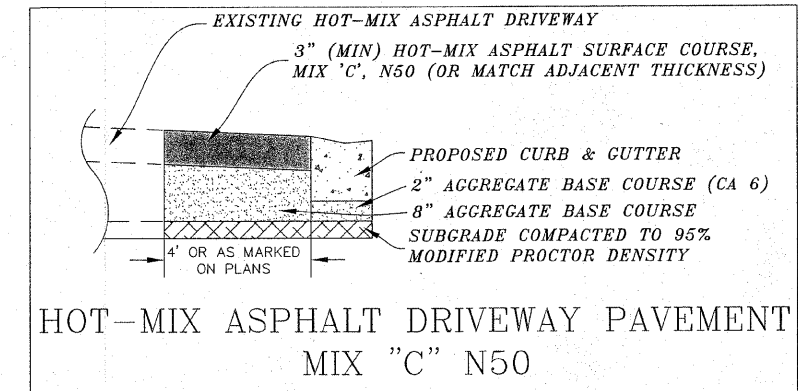
NOTE: CONTRACTOR SHALL MILL BEFORE PATCHING.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS CHART	
MIXTURE TYPE	AIR VOIDS AT Ndes
PAVEMENT RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX 'C', N50, 1 1/2" (IL 9.5mm)	4% AT 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 2 1/2"	4% AT 50 GYR
DRIVEWAYS	
HMA SURFACE COURSE, MIX "C", N50, 3" (IL 9.5mm)	4% AT 50 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.



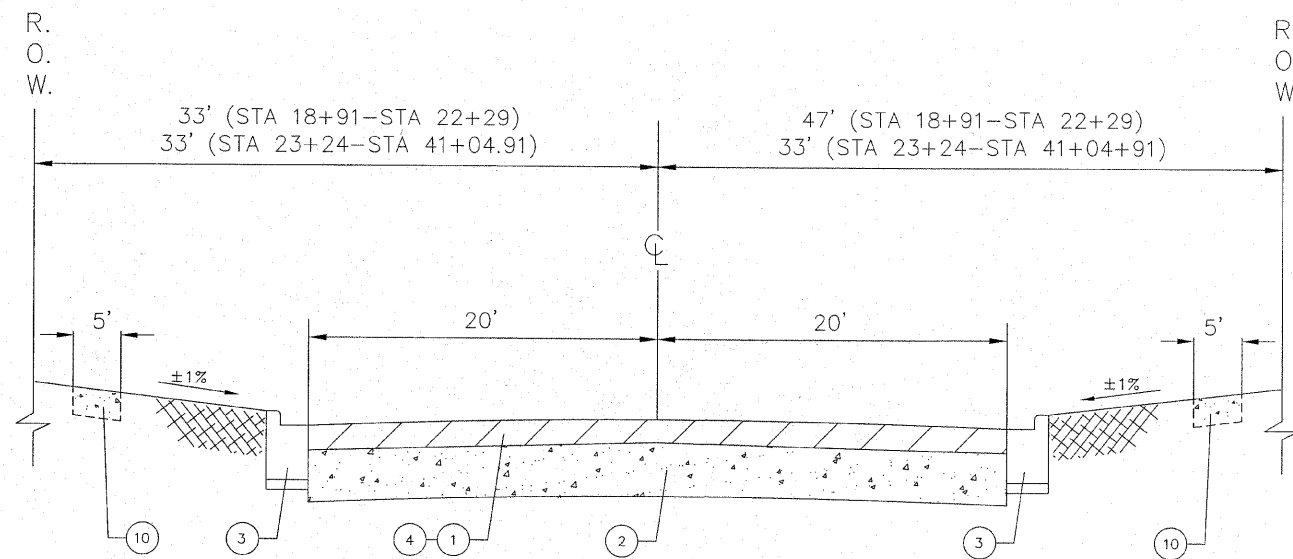
AKHRAS ASSOCIATES, INC.
 A DESIGN FIRM REGISTERED IN THE STATE OF ILLINOIS
 LICENSE NO. 184-000494
 9306 S. IDELL AVENUE - BIRDVIEW, IL 60455
 TEL. (708) 599-1101 • FAX (708) 599-2558

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION VILLAGE OF PHOENIX VINCENNES ROAD RESURFACING THORNTON RD. TO HALSTED ST.
NAME	DATE	
JMH PER IDOT	10.01.09	GENERAL NOTES AND SUMMARY OF QUANTITIES SCALE: N.T.S. HORIZ: N.T.S. DATE: 09/15/09 DRAWN BY: JMH CHECKED BY: SAL
JMH PER REVIEW	11.17.09	
JMH PER REVIEW	12.03.09	
JMH PER REVIEW	12.11.09	

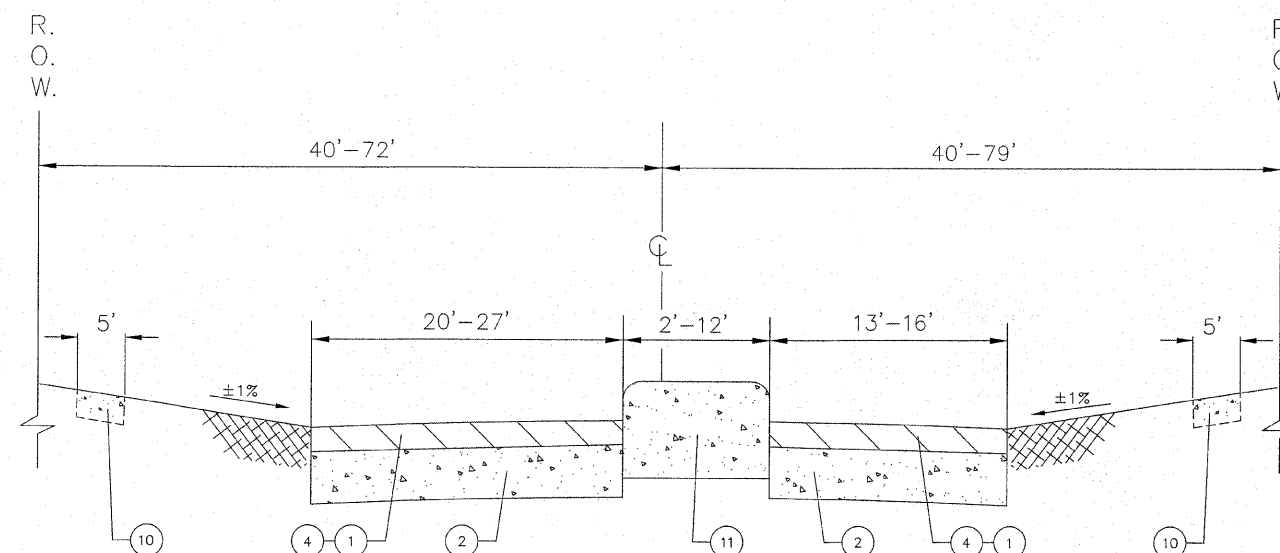
RBE JOB# 09-22

- ① EX. HMA SURFACE, 4"
- ② EX. CONCRETE BASE, ±8"
- ③ EX. CURB & GUTTER, TY B6.24
- ④ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 4"
- ⑤ PROP. HOT-MIX ASPHALT SURF. CSE, MIX 'C', N50, 1 1/2"
- ⑥ PROP. HOT-MIX ASPHALT BINDER CSE, IL-19.0, N50, 2 1/2"
- ⑦ CLASS 'B' PATCHES, TYPE II, 8"
- ⑧ AREA REFLECTIVE CRACK CONTROL TREATMENT
- ⑨ COMB. CURB & GUTTER REPLACEMENT (WHERE MARKED IN FIELD)
- ⑩ EXISTING P.C.C. SIDEWALK, 5"
- ⑪ EXISTING CONCRETE MEDIAN
- ⑫ PROPOSED P.C.C. SIDEWALK, 5"

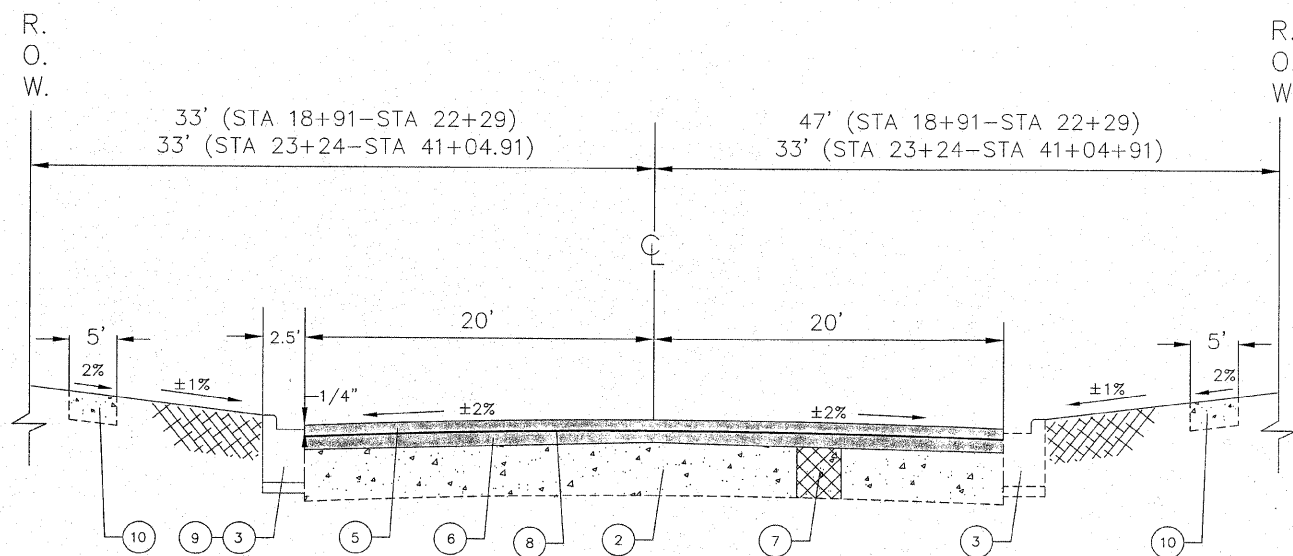
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3598	09-00020-00-RS	COOK	13	4
STA. 14+16.89		TO STA. 41+04.91		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 63365				



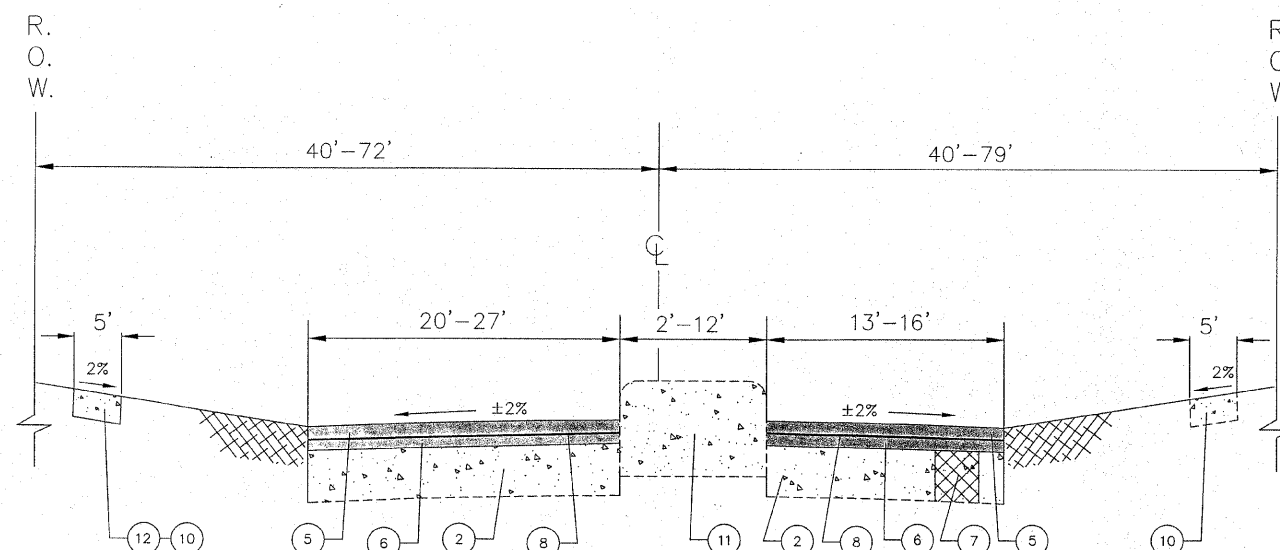
EXISTING CROSS-SECTION
STA 18+91 - STA 41+04.91



EXISTING CROSS-SECTION
STA 14+16.89 - STA 18+91



PROPOSED CROSS-SECTION
STA 18+91 - STA 41+04.91



PROPOSED CROSS-SECTION
STA 14+16.89 - STA 18+91

NOTE: CROSS-HATCHED
ITEMS ARE TO BE REMOVED

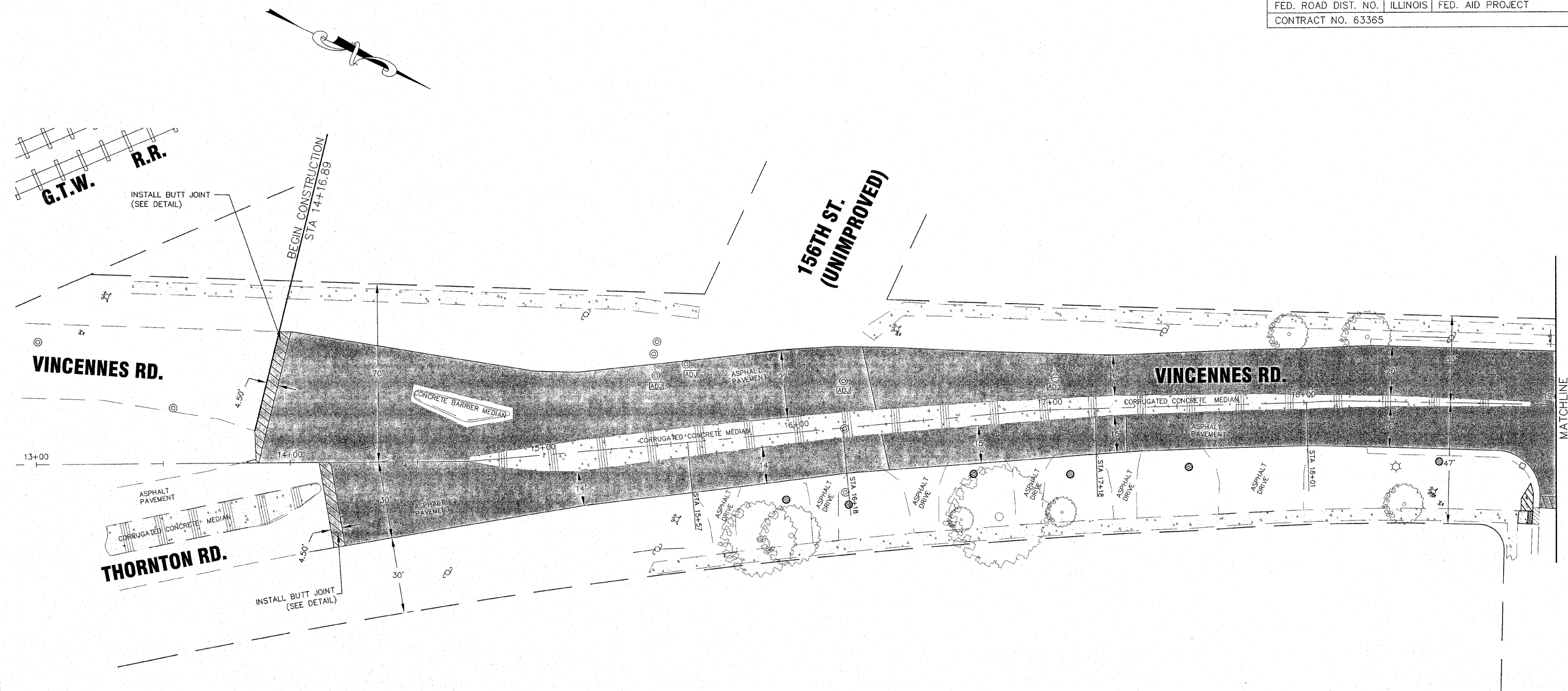
AKHRAS ASSOCIATES, INC.
 A DESIGN FIRM REGISTERED IN THE STATE OF ILLINOIS
 LICENSE NO. 184-000564
 9306 S. IDELL AVENUE • BRIDGEVIEW, IL 60455
 TEL. (708) 599-1101 • FAX (708) 599-2289

REVISIONS		DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION VILLAGE OF PHOENIX VINCENNES ROAD RESURFACING THORNTON RD. TO HALSTED ST.
NAME	DATE		
JMH PER IDOT	10.01.09		TYPICAL CROSS SECTIONS
JMH PER REVIEW	11.17.09		

SCALE: N.T.S.
 HORIZ: N.T.S.
 DATE: 09/15/09
 DRAWN BY: JMH
 CHECKED BY: SAL

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3598	09-00020-00-RS	COOK	13	5
STA. 14+16.89		TO STA. 41+04.91		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 63365				

AKHRAS ASSOCIATES, INC.
 A DESIGN FIRM REGISTERED IN THE STATE OF ILLINOIS
 LICENSE No. 184-006690
 9306 S. DIWELL AVENUE • BRIDGEVIEW, IL. 60455
 TEL. (708) 599-1101 • FAX. (708) 599-2238



MATCHLINE
 STA 19+00 (SEE SHEET 6)

REVISIONS	
NAME	DATE
JMH PER DOT	10.01.09
JMH PER REVIEW	11.17.09

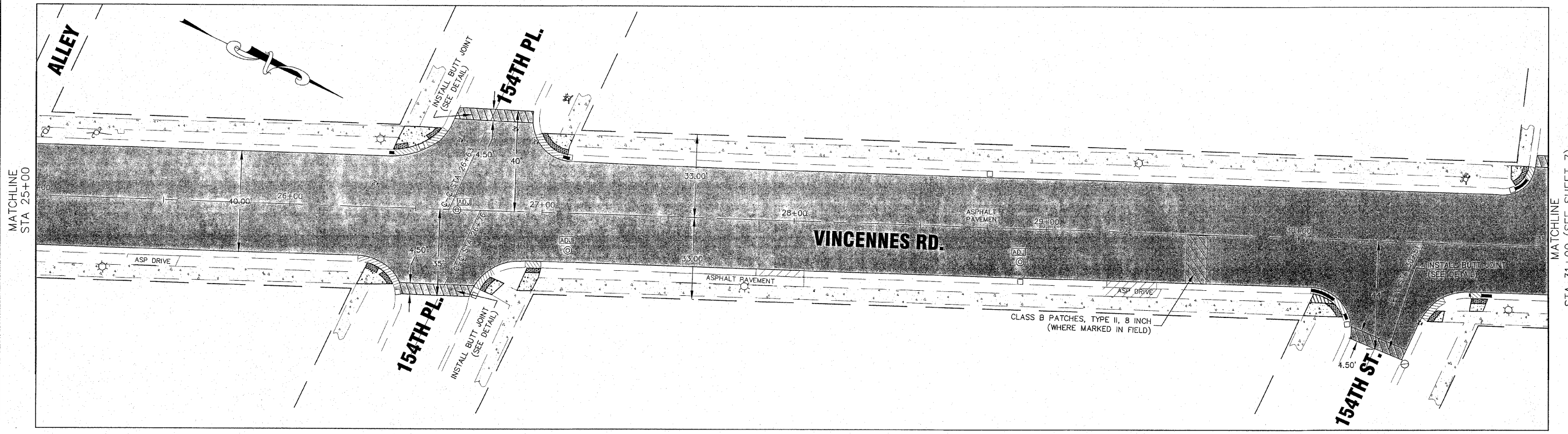
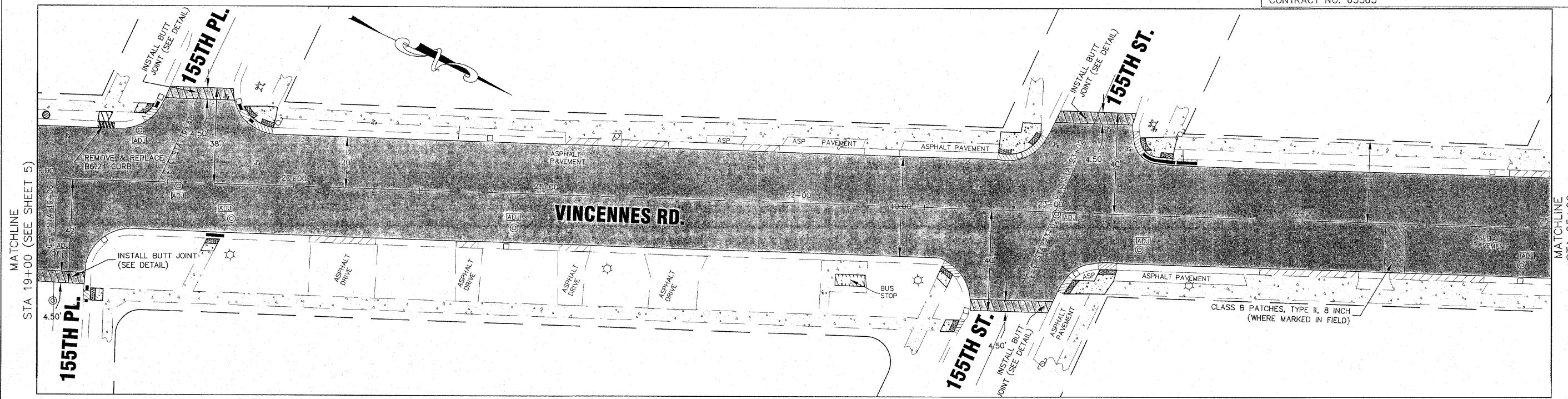
ILLINOIS DEPARTMENT OF TRANSPORTATION
 VILLAGE OF PHOENIX
 VINCENNES ROAD RESURFACING
 THORNTON RD. TO HALSTED ST.

SCALE:
 HORIZ: 1"=20'
 DATE: 09/15/09

DRAWN BY: JMH
 CHECKED BY: SAL

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3598	09-00020-00-RS	COOK	13	6
STA. 14+16.89		TO STA. 41+04.91		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 63365				

AKHRAS ASSOCIATES, INC.
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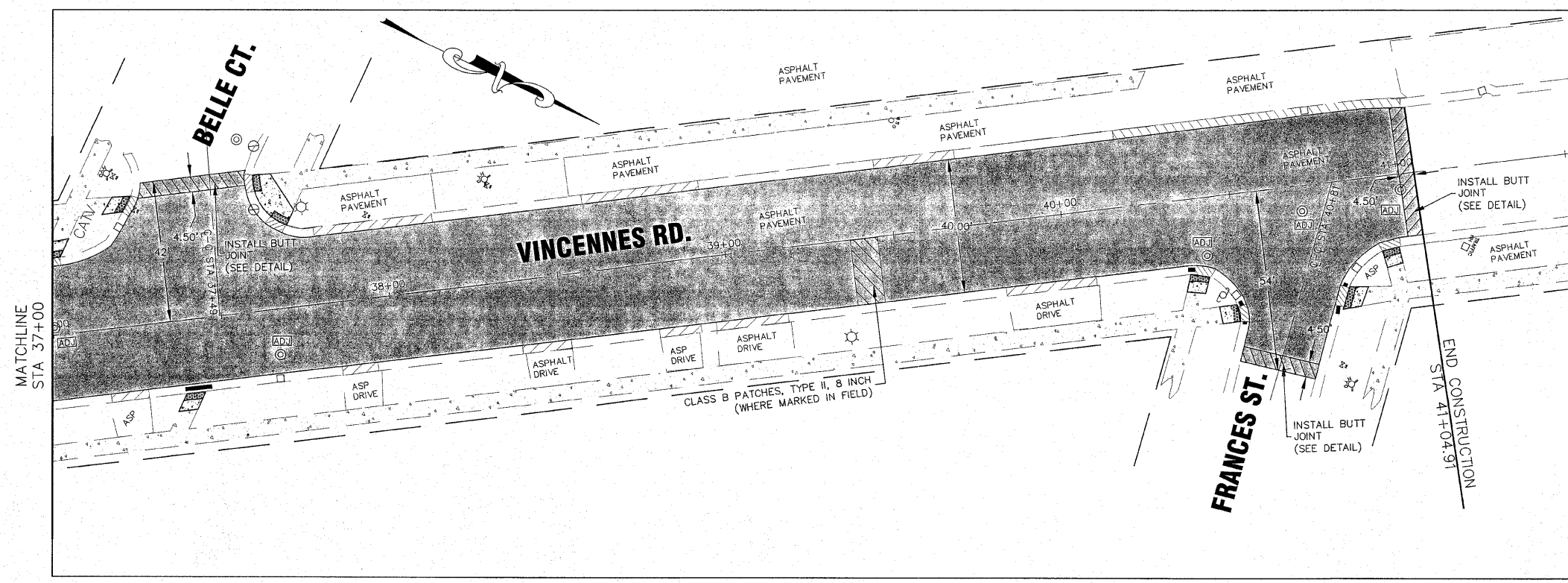
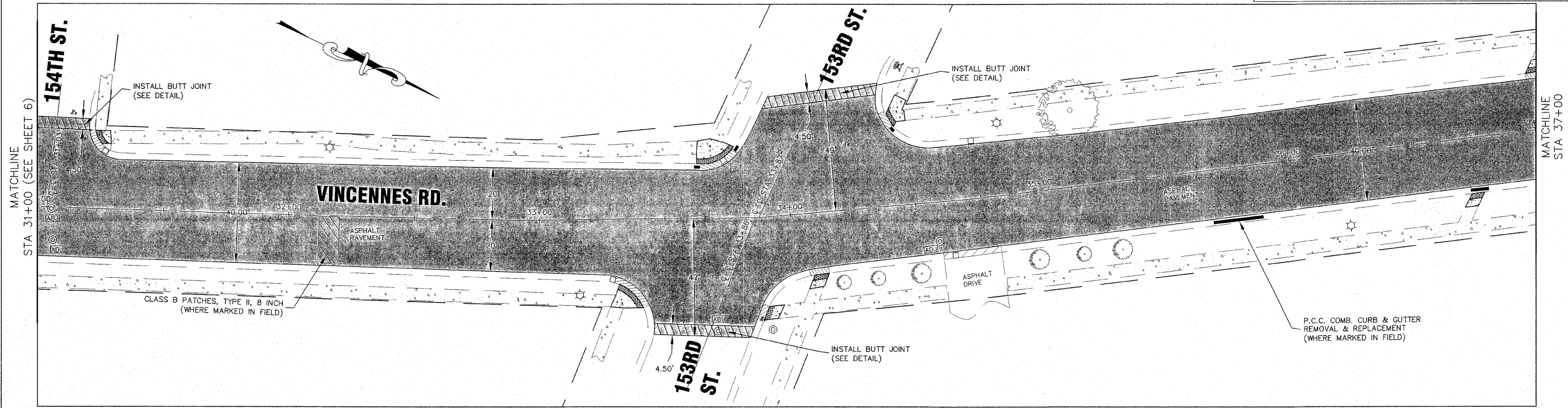
REVISIONS		
NAME	DATE	
JMH PER IDOT	10.01.09	
JMH PER REVIEW	11.17.09	

ILLINOIS DEPARTMENT OF TRANSPORTATION
 VILLAGE OF PHOENIX
 VINCENNES ROAD RESURFACING
 THORNTON RD. TO HALSTED ST.

SCALE:
 HORZ. 1" = 20'
 DATE: 09/15/09

DRAWN BY: JMH
 CHECKED BY: SAL

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3598	09-00020-00-RS	COOK	13	7
STA. 14+16.89		TO STA. 41+04.91		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
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AKHRAS ASSOCIATES, INC.
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 LICENSE NO. 184-000660
 9906 S. DEWELL AVENUE • BRIDGEVIEW, IL 60455
 TEL. (708) 599-1101 • FAX. (708) 999-2258

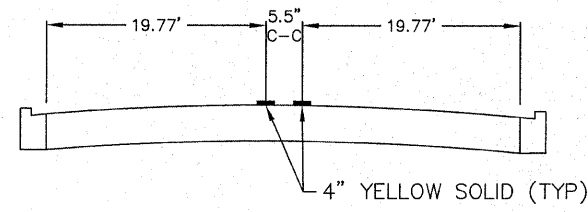
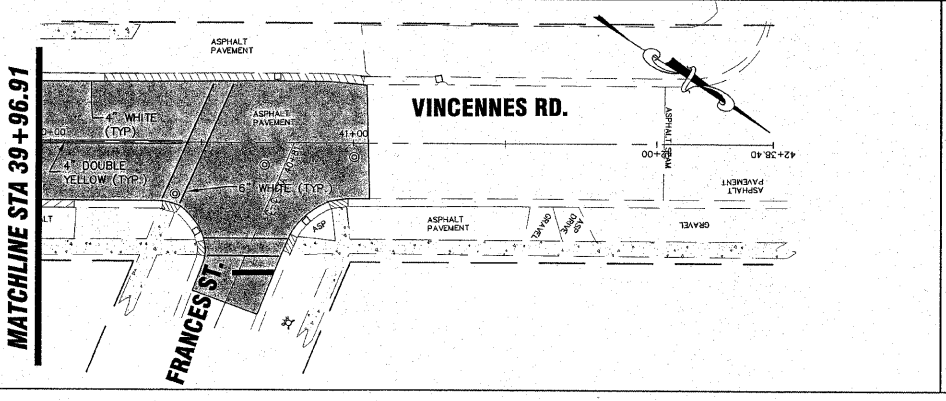
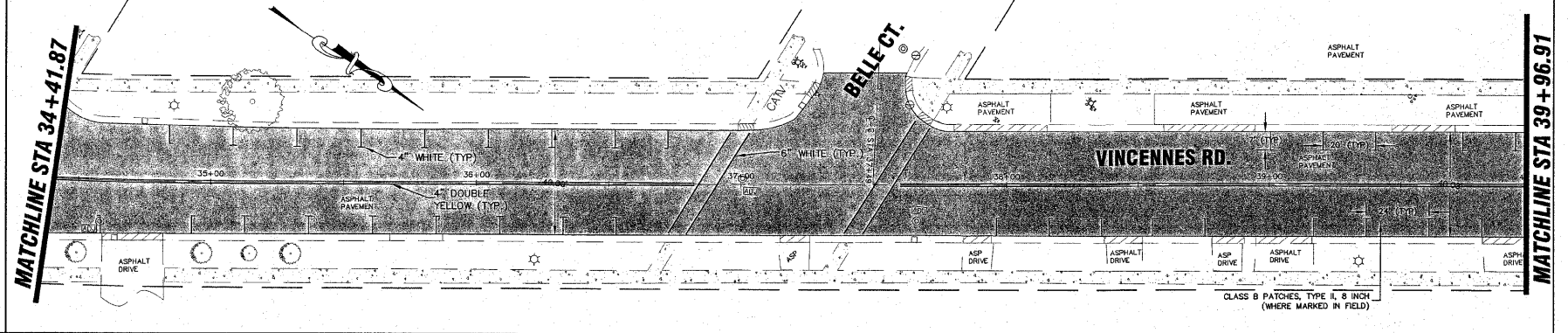
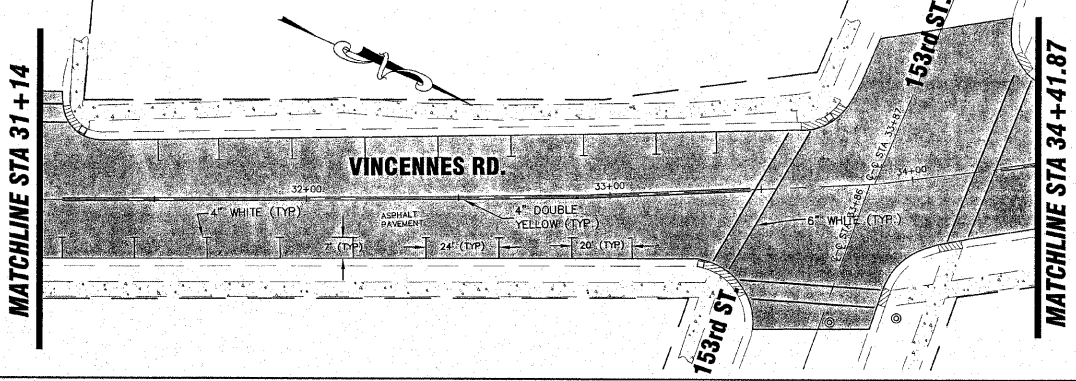
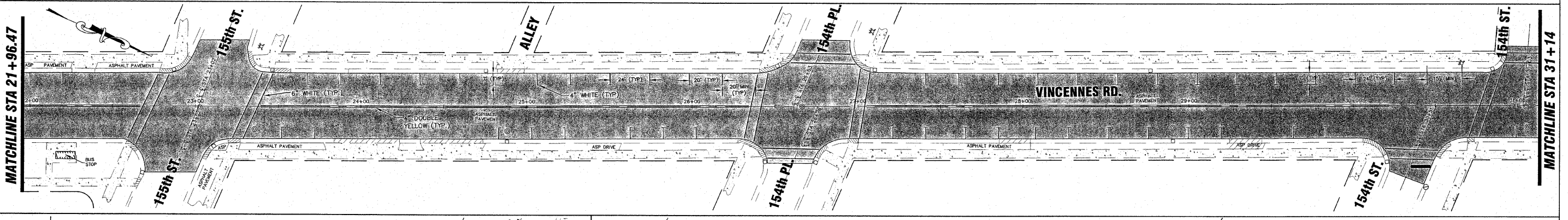
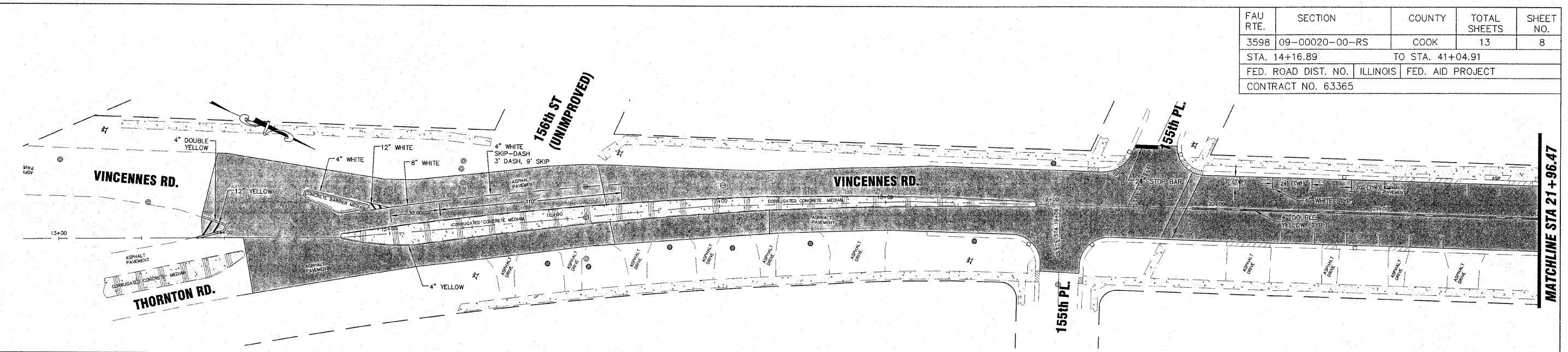
REVISIONS		DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION VILLAGE OF PHOENIX VINCENNES ROAD RESURFACING THORNTON RD. TO HALSTED ST.
NAME	DATE		
JMH PER IDOT	10.01.09		
JMH PER REVIEW	11.17.09		

SCALE:
 HORIZ: 1"=20'
 DATE: 09/15/09

DRAWN BY: JMH
 CHECKED BY: SAL

11/15/09 10:00 AM 11/15/09 10:00 AM 11/15/09 10:00 AM 11/15/09 10:00 AM 11/15/09 10:00 AM

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3598	09-00020-00-RS	COOK	13	8
STA. 14+16.89		TO STA. 41+04.91		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
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TYPICAL SECTION
(NOT TO SCALE)

NOTE: ALL PAVEMENT MARKING SHALL BE THERMOPLASTIC

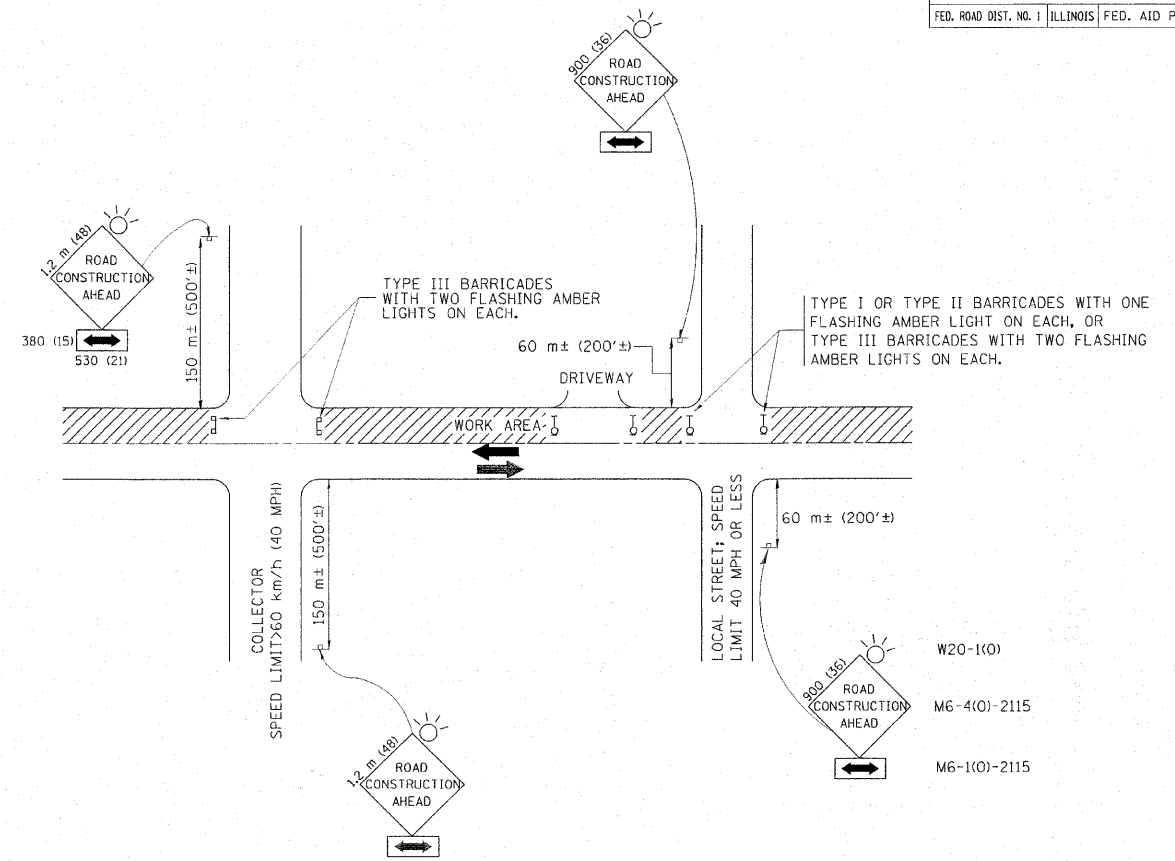
REVISIONS		DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION VILLAGE OF PHOENIX PAVEMENT MARKING PLAN THORNTON RD. TO HALSTED ST.
NAME	DATE		
JMH PER DOT	10.01.09		
JMH PER REVIEW	11.17.09		

SCALE:
HORIZ: 1"=30'
DATE: 09/15/09

DRAWN BY: JMH
CHECKED BY: SAL

AKHRAS ASSOCIATES, INC.
A DESIGN FIRM REGISTERED IN THE STATE OF ILLINOIS
LICENSE NO. 184-006690
9806 S. DEBELL AVENUE • BRIDGEVIEW, IL 60455
TEL. (708) 599-1101 • FAX. (708) 599-2258

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3598	09-00020-00-RS	COOK	13	9
STA. 14+16.89		TO STA. 41+04.91		
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

- SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 900x900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200') IN ADVANCE OF THE MAIN ROUTE.
 - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 1.2 m x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') IN ADVANCE OF THE MAIN ROUTE.
 - 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.
- 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. 70150L, 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
 - THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

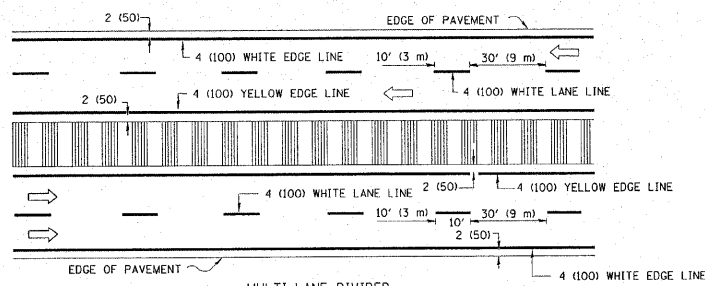
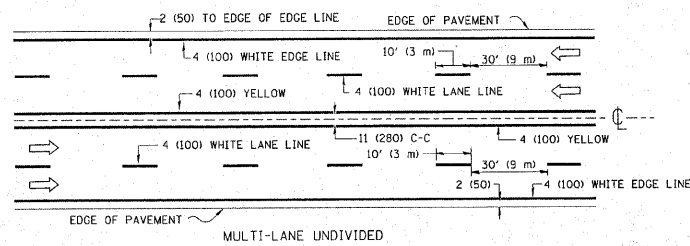
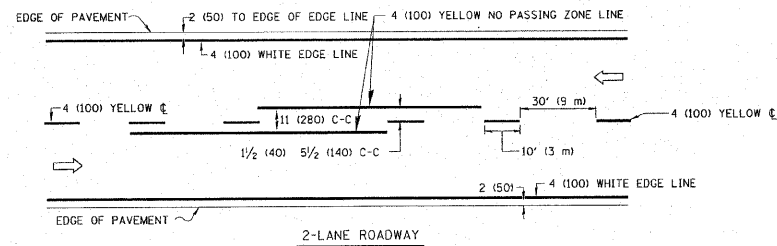
REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: VERT. HORIZ.
 DATE 10/18/2002
 DRAWN BY
 CHECKED BY
 TC-10

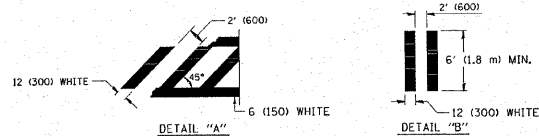
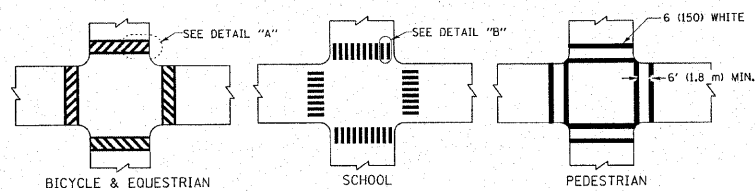
AKHRAS ASSOCIATES, INC.
 A DESIGN FIRM REGISTERED IN THE STATE OF ILLINOIS
 LICENSE NO. 184-000650
 9306 S. DIBELL AVENUE • BRIDGEVIEW, IL 60455
 TEL. (708) 599-1101 • FAX. (708) 599-2538

F.A. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
3598	09-0020-00-RS	COOK	13
STA. 14+16.89		TO STA. 41+04.91	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

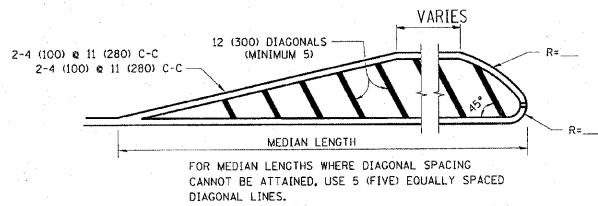
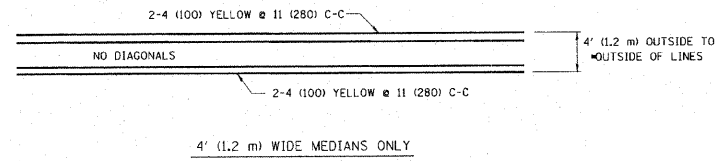


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



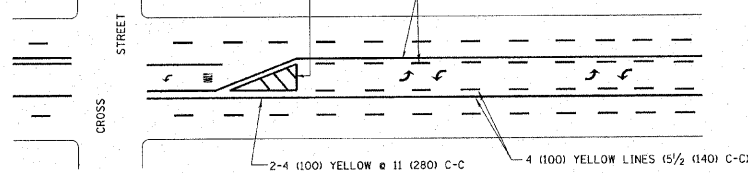
TYPICAL CROSSWALK MARKING



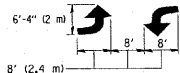
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

MEDIANS OVER 4' (1.2 m) WIDE

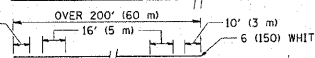
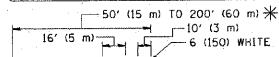
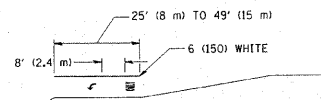


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

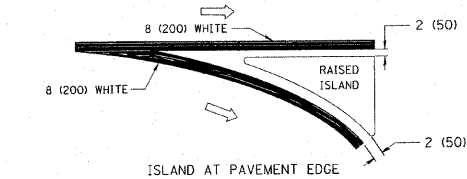
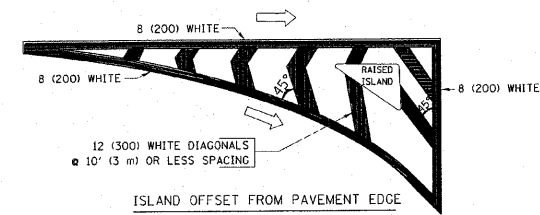


FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) AREA = 20.8 SQ. FT. (1.9 m²)

* 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	4 (100)	SOLID	YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100)	SKIP-DASH	WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
LANE LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	5 (125)	SKIP-DASH	WHITE	
DOTTED LINES	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	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
TWO WAY LEFT TURN MARKING	8' (2.4 m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN)	2 @ 6 (150)	SOLID	WHITE	NOT LESS THAN 6' (1.8 m) APART
CROSSWALK LINES (BICYCLE & EQUESTRIAN)	12 (300) @ 45°	SOLID	WHITE	2' (600) APART
CROSSWALK LINES (LONGITUDINAL BARS (SCHOOL))	12 (300) @ 90°	SOLID	WHITE	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°	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" 15 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 ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
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.

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

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
C. JUCIUS	09-09-09

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE

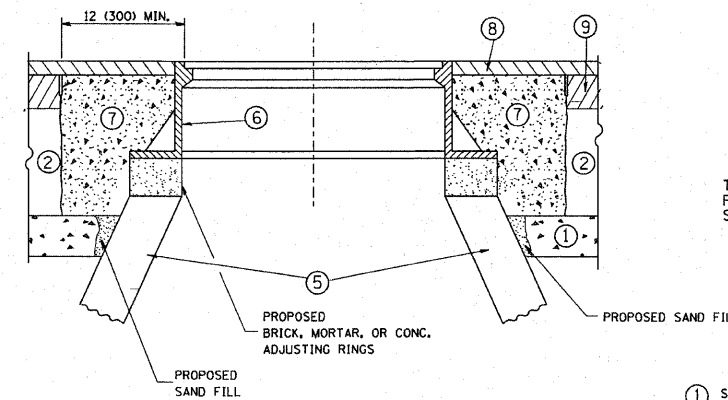
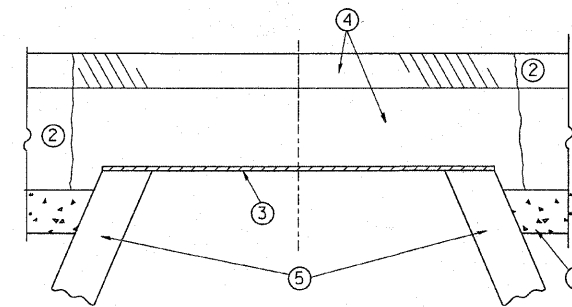
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CHECKED BY
TC-13

AKHRAS ASSOCIATES, INC.
DESIGN FIRM REGISTERED IN THE STATE OF ILLINOIS
LICENSE NO. 184-000940
9006 S. IDELL AVENUE - BRIDGEVIEW, IL 60455
TEL (708) 599-1101 - FAX (708) 599-2258

PLOT DATE = 9/9/2009
FILE NAME = 01000001.dwg
PLOT SCALE = 0.0000 / IN.
USER NAME = drvakogin

JOB# 09-09-09

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3598	09-00020-00-RS	COOK	13	11
STA. 14+16.89		TO STA. 41+04.91		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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 S1 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 S1 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

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/30/95
R. SHAH	03/10/95
A. ABBAS	03/21/97
R. WIEDEMAN	05/14/04
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: VERT. NONE
HORIZ.

DRAWN BY
CHECKED BY
BD600-03 (BD-8)

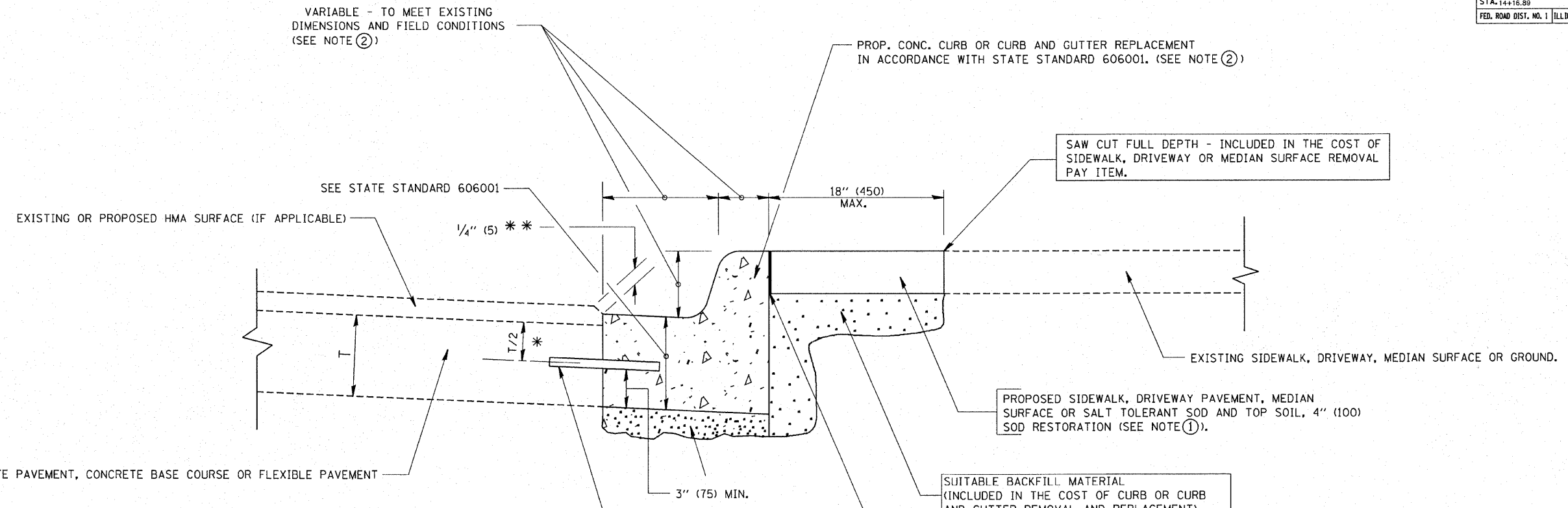
AKHRAS ASSOCIATES, INC.
 A DESIGN FIRM REGISTERED IN THE STATE OF ILLINOIS
 LICENSE NO. 184-000690
 9306 S. DIBELL AVENUE • BRIDGEVIEW, IL 60455
 TEL. (708) 999-1101 • FAX. (708) 999-2258

PLOT DATE: 3/07/2007
 PLOT SCALE: 1/8"=1'-0"
 USER NAME: bborro-dl

FILE: 03071051-22

CONTRACT NO. 63365				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3598	09-00020-00-RS	COOK	13	12
STA. 14+16.89		TO STA. 41+04.91		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

AKHRAS ASSOCIATES, INC.
 A DESIGN FIRM REGISTERED IN THE STATE OF ILLINOIS
 9906 S. DIBELL AVENUE • BRIDGEVIEW, IL 60455
 TEL. (708) 599-1101 • FAX. (708) 599-2258



- * 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.

- PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)
- 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".

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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

REVISIONS	
NAME	DATE
A. HOUSEH	03/11/94
R. SHAH	02/24/95
R. SHAH	03/02/95
R. SHAH	08/19/96
R. SHAH	09/12/96
R. SHAH	09/19/96
R. SHAH	10/03/96
A. ABBAS	03/21/97
M. GOMEZ	01/22/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

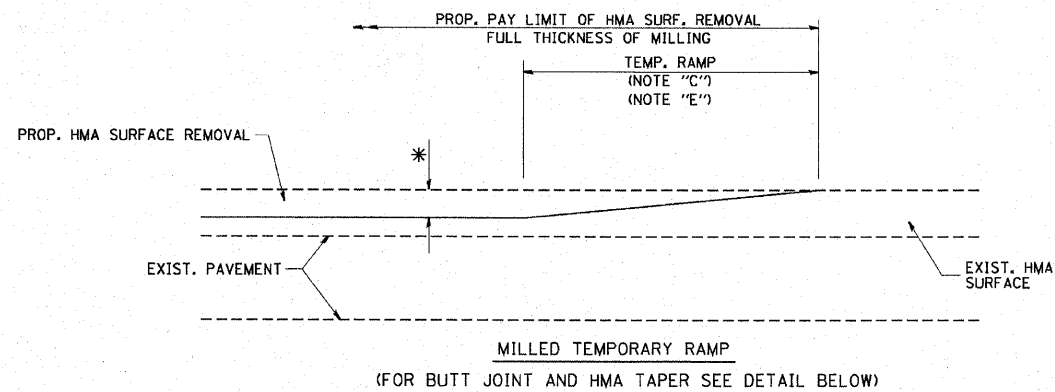
SCALE: VERT. NONE
 HORIZ. NONE

DRAWN BY
 CHECKED BY
 BD600-06 (BD-24)

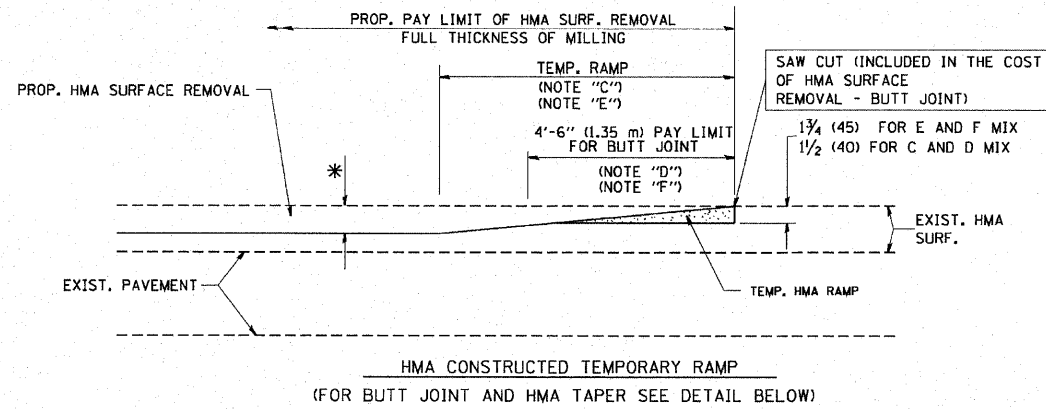
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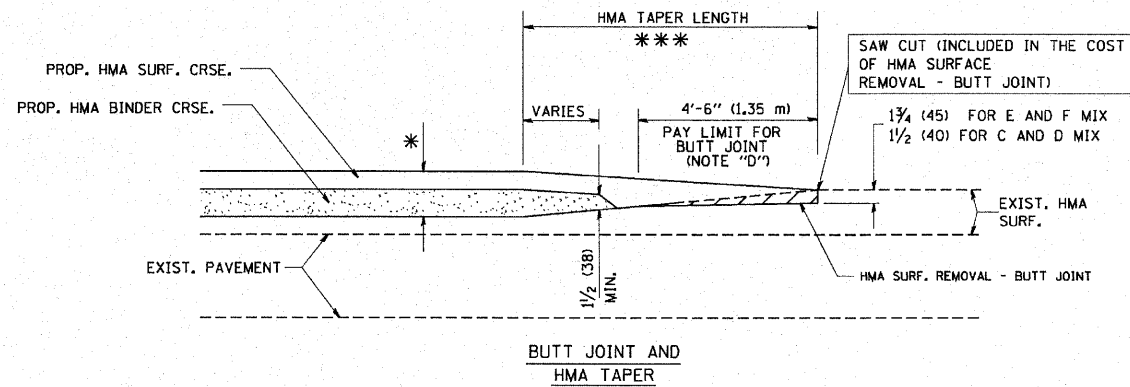
CONTRACT NO. 63365			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
3598	09-00020-00-RS	COOK	13
STA. 14+16.89		TO STA. 41+04.91	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



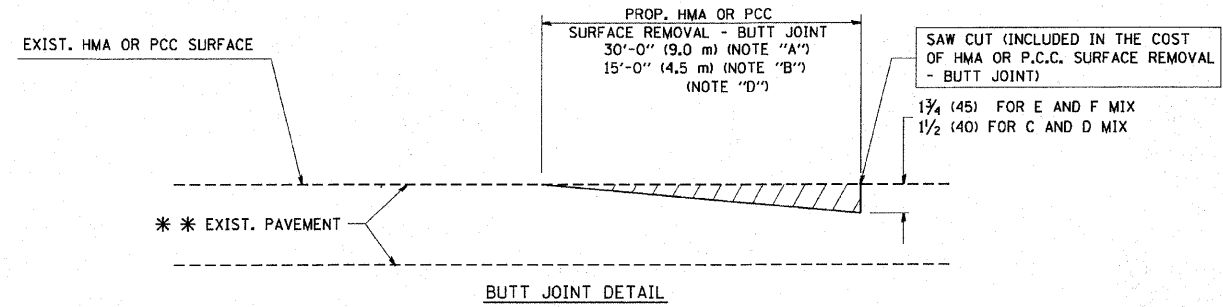
OPTION 1



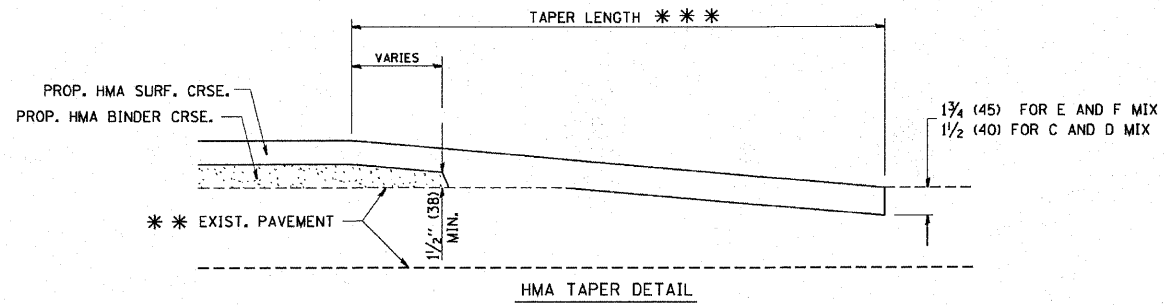
OPTION 2
TYPICAL TEMPORARY RAMP



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")

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

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
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER
DETAILS

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".

SCALE: VERT. NONE
HORIZ. DRAWN BY
CHECKED BY
BD400-05 (V1-BD32)

AKHRAS ASSOCIATES, INC.
 A DESIGN FIRM REGISTERED IN THE STATE OF ILLINOIS
 LICENSE NO. 184-006690
 9506 S. DIBELL AVENUE, BRIDGEVIEW, IL 60455
 TEL. (708) 599-1101 • FAX. (708) 599-2258

PLOT DATE: 3/16/2007
 FILE NAME: K:\PROJECTS\BD400\BD400.PLT
 PLOT SCALE: 0.666667
 USER NAME: bbornd

TEL. 708/599-2258