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- PLAN & PROFILE: EAST AVENUE (RESURFACING) CERMAK RD. TO STA. 26+00 4.)
- PLAN & PROFILE: EAST AVENUE (RESURFACING) STA. 26+00 TO ROOSEVELT RD. 5.)
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- DISTRICT ONE TYPICAL PAVEMENT MARKINGS
- PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
- TRAFFIC CONTROL AND PROTECTION FOR SIDEROADS, INTERSECTIONS, AND DRIVEWAYS
- SIGNING FOR FLAGGING OPERATION AT WORK ZONE OPENINGS
- CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
- FRAMES AND LIDS ADJUSTMENTS WITH MILLING
- BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS
- DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

STATE STANDARDS

000001-05 STANDARDS SYMBOLS, ABBREVIATIONS, AND PATTERNS

424001-05 CURB RAMPS FOR SIDEWALK

442201-03 CLASS C AND D PATCHES

602501-01 VALVE VAULT TYPE A

604001-03 FRAME & LIDS, TYPE 1

606001-04 CONCRETE CURB AND COMBINATION

CONCRETE CURB & GUTTER

701301-03 LANE CLOSURE, 2 L, 2 W, SHORT TIME OPERATIONS

701501-05 URBAN LANE CLOSURE, 2 L, 2 W UNDIVIDED

701701-06 URBAN LANE CLOSURE, MULTILANE INTERSECTION

701801-04 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE

701901-01 TRAFFIC CONTROL DEVICES

(847)705

SOLOMON

MARILIN

ENGINEER:

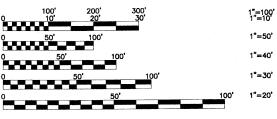
780001-02 TYPICAL PAVEMENT MARKINGS

886001-01 DETECTOR LOOP INSTALLATIONS

886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS

781001-03 TYPICAL APPLICATIONS RAISED

REFLECTIVE PAVEMENT MARKERS



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.



FIELD CONTRACT NO. 63203

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1	JEF	5-1-	-09		PI	ER I.D.	O.T. RE	VIEW		
2	JEF	6-24	-09		PI	ER 1.D.	O.T. RE	VIEW		
3	JEF	7-0	8-09		P	ER B	ERWS	N		
4	JEF	7-09	-09	7000000	Р	ER I.D.	O.T. RE	MEW		
5	JEF	7-16	-09	(A.)	P	ER I.D.	O.T. RE	MEW		3

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

EAST AVENUE (FAU RTE. 2779)

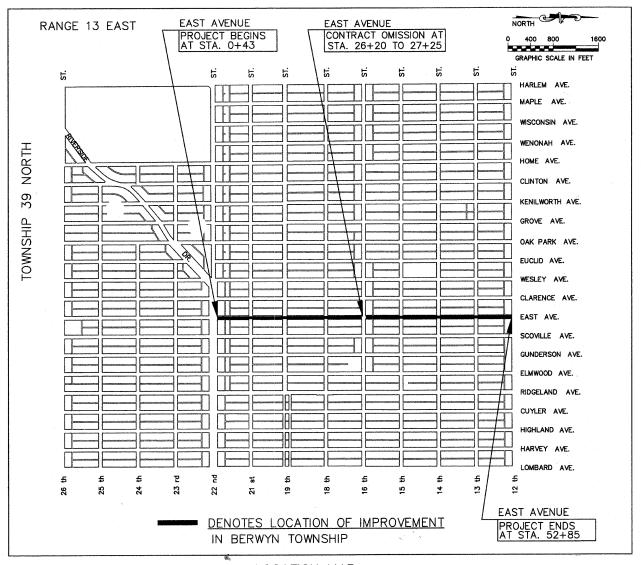
FROM CERMAK ROAD (FAU 1453) TO ROOSEVELT RD. (FAP 347)

LAPP RESURFACING

FEDERAL PROJECT ARA-9003(176) SECTION NO. 08-00165-00-RS

CITY OF BERWYN COOK COUNTY

JOB NO. C-91-208-09



LOCATION MAP

LENGTH OF PROJECT

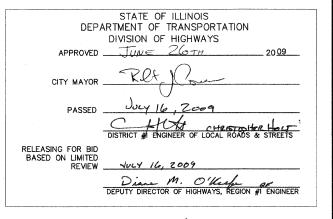
GROSS LENGTH OF PROJECT NET LENGTH OF PROJECT

5,242 FEET (0.9928 MILES) 5,137 FEET (0.9729 MILES)

TOTAL SHEET SHEETS NO. FAU RTE SECTION COUNTY COOK 15 1 FAU 2779 08-00165-00-RS F.H.W.A. REG. ILLINOIS PROJECT ARA-9003(176)

CONTRACT NO. 63203



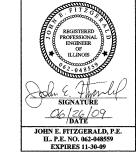


PROJECT LOCATED IN THE CITY OF BERWYN

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

SEE SHEET 3 FOR DESIGN DETAILS

TRAFFIC DATA: ADT (2015): 8,800 POSTED SPEED LIMIT = 30 MPH DESIGN SPEED LIMIT = 30 MPH





Frank Novotny & Associates, Inc.

825 Midway Drive ♦ Willowbrook, IL ♦ 60527 ♦ Telephone: (630) 887-8640 ♦ Fax: (630) 887-0132

FNA JOB # 06077

GENERAL CONSTRUCTION NOTES PAVING AND STORM SEWERS

SPECIFICATIONS
THE LATEST EDITIONS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", PREPARED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" SHALL GOVERN ALL WORK ASSOCIATED WITH THIS PROJECT. THE "STANDARD SPECIFICATIONS FOR WATER AND SPINED MAD CONSERVICTION IN LINDICATED. SEWER MAIN CONSTRUCTION IN ILLINOIS" MAY GOVERN OTHER WORK ON THIS PROJECT AS INDICATED

CARE IN EXCAVATION

CARE SHALL BE EXERCISED BY THE CONTRACTOR IN CARRYING OUT EARTH AND/OR TRENCHING OPERATIONS SO THAT LOCAL SERVICES, WATER VALVES, MANHOLES, CATCH BASINS, INLETS, BUFFALO BOXES, AND OTHER STRUCTURES ARE NOT DAMAGED OR REMOVED. ANY DAMAGE DONE BY THE CONTRACTOR, WHETHER THE STRUCTURE OR SERVICE IS VISIBLE AT THE GROUND SURFACE OR NOT, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AS REQUIRED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE AND NOT ADDITIONAL COMPENSATION WILL BE ALLOWED. CONTRACTOR'S EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

NOTIFICATION OF PUBLIC UTILITIES

PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OFFICIALS OF THE PUBLIC WORKS DEPARTMENT OF THE LOCAL MUNICIPALITY, JULLIE. AT 1-800-892-0123, AND OTHER PUBLIC AND PRIVATE UTILITIES SO THAT ARRANGEMENTS CAN BE MADE TO LOCATE THEIR VARIOUS FACILITIES WITHIN THE LIMITS OF CONSTRUCTION UNDER THIS CONTRACT, AS WELL AS TO PROVIDE ADEQUATE PROTECTION AND INSPECTION THERETO. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES IN THE FIELD.

TRAFFIC CONTROL DEVICES

BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 107.14 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". ADEQUATE LIGHTING SHALL BE MAINTAINED FROM DUSK TO DAWN AT ALL LOCATIONS WHERE CONSTRUCTION OPERATIONS WARRANT, OR AS DESIGNATED BY THE ENGINEER.

PROTECTION OF SIGNS AND PROPERTY

PROTECTION OF SIGNS AND PROPERTY
ALL TRAFFIC SIGNS, STREET SIGNS, ETC., THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS
SHALL BE REMOVED AND PLACED AT NEW LOCATIONS AS DESIGNATED BY THE ENGINEER. THIS WORK
SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE
ALLOWED. IN ADDITION, ALL MAIL BOXES THAT INTERFERE WITH CONSTRUCTION SHALL BE SIMILARLY
RELOCATED AT NO ADDITIONAL COST IN ACCORDANCE WITH ARTICLES 107.20 AND 107.21 OF THE
"STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

SUPERINTENDENCE

SPECIAL ATTENTION IS DRAWN TO ARTICLE 105.06 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WHICH REQUIRES THE CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES, IRRESPECTIVE OF THE AMOUNT OF WORK SUBLET. THE SUPERINTENDENT SHALL BE CAPABLE OF READING AND UNDERSTANDING THE PLANS AND SPECIFICATIONS, SHALL HAVE FULL AUTHORITY TO EXECUTE ORDERS TO EXPEDITE THE PROJECT AND SHALL BE RESPONSIBLE FOR SCHEDULING AND HAVING CONTROL OF ALL THE WORK AS THE ACENT OF THE GENERAL CONTRACTOR. FAILURE TO COMPLY WITH THIS PROVISION WILL RESULT IN A SUSPENSION OF WORK AS PROVIDED IN ARTICLE 108.07.

SAWING EXISTING IMPROVEMENTS

ALL PERMANENT TYPE PAVEMENTS OR OTHER PERMANENT IMPROVEMENTS WHICH ABUT THE PROPOSED IMPROVEMENT AND MUST BE REMOVED, SHALL BE SAWED AS DIRECTED PRIOR TO REMOVAL. ALL ITEMS SO REMOVED SHALL BE REPLACED WITH SIMILAR CONSTRUCTION MATERIALS TO THEIR ORIGINAL CONDITION OR BETTER. PAYMENT FOR SAWING SHALL BE INCLUDED IN THE COST FOR THE REMOVAL OF EACH ITEM, AND REPLACEMENT WILL BE PAID FOR UNDER THE RESPECTIVE ITEMS IN THE CONTRACT UNLESS OTHERWISE INDICATED. SAW CUTTING FOR PATCHES WILL BE INCIDENTAL TO THE PATCHING ITEM.

CONSTRUCTION LAYOUT STAKES

THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH WOODEN STAKES OR OTHER LAYOUT MATERIALS FOR LAYOUT OF THE LINES AND GRADES OF THE PROJECT. FAILURE TO PROVIDE STAKES IN A TIMELY MANNER WILL RESULT IN A DELAY IN STAKEOUT WHICH WILL BE APPLICABLE AGAINST THE TIME LIMIT FOR COMPLETION SHOWN IN THE PROJECT SPECIFICATIONS. LINE AND GRADE WILL BE ESTABLISHED BY THE ENGINEER AT REGULAR INTERVALS ON PERMANENTLY PAVED SURFACES. SIDEWALKS OR STAKES AT THE ENGINEER'S OPTION, ALL WITHIN THE PUBLIC RIGHT—OF—WAY AND SHALL BE TRANSFERRED BY THE CONTRACTOR TO THE ACTUAL LINE OF CONSTRUCTION

PROJECT SAFETY

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.

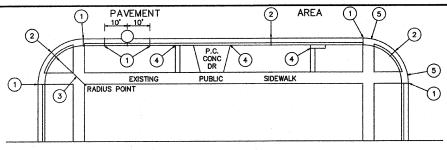
WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1-1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

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

THE CONTRACTOR SHALL COMPLY WITH AND OBSERVE THE RULES AND REGULATIONS OF O.S.H.A. AND APPROPRIATE AUTHORITIES REGARDING SAFETY PROVISIONS. THE CONTRACTOR, ENGINEER, AND OWNER SHALL EACH BE RESPONSIBLE FOR THEIR OWN RESPECTIVE AGENTS AND EMPLOYEES.

THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS, OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS WORK IN ACCORDANCE WITH THE DOCUMENTS AND SPECIFICATIONS.

ALL ITEMS ASSOCIATED WITH CURB AND GUTTER, DRIVEWAYS AND PATCHING WILL NOT EXCEED THE QUANTITIES LISTED IN THE SUMMARY OF QUANTITIES.



FAU 2779 08-00165-00-RS | COOK | 15 | 2 F.H.W.A. REG. | ILLINOIS PROJECT ARA-9003(176) CONTRACT NO. 63203

SECTION

FAU RTE

COUNTY TOTAL SHEET NO.

- 1. EXPANSION JOINTS AT TANGENT POINTS AND 150 FOOT INTERVALS, CONSISTING OF ONE INCH PREMOLDED JOINT FILLER MATERIAL WITH #8 DOWEL BARS, 18" IN LENGTH, GREASED, PROVIDE EXPANSION CAP ON ONE END. ALSO CONSTRUCT THIS JOINT TEN FEET EACH SIDE OF PROPOSED UNDERGROUND STRUCTURE.
- 2. CONTRACTION JOINTS AT TWENTY-FIVE FOOT INTERVALS AND AT THE CENTER OF RETURNS.
- 3. ALL RADII SHALL BE 25 FEET TO THE BACK OF CURB UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 4. LONGITUDINAL EXPANSION JOINT CONSISTING OF ONE INCH PREMOLDED JOINT FILLER.
- 5. DEPRESS CURB AT LOCATIONS WHERE PUBLIC WALKS INTERSECT CURB LINE AT STREET INTERSECTIONS, ALLEYS, AND OTHER LOCATIONS AS DIRECTED, FOR THE CONSTRUCTION OF RAMPED SIDEWALKS FOR ACCESS BY THE HANDICAPPED.

JOINT DETAILS

SUMMARY OF QUANTITIES

Item			
No	Description	Unit	Quantity
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CUYD	150
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQYD	453
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	2,340
40600300	AGGREGATE (PRIME COAT)	TON	30
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	1,300
40600895	CONSTRUCTING TEST STRIP	EACH	1
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQYD	245
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	2,620
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQFT	5,241
42400800	DETECTABLE WARNINGS	SQFT	10
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQYD	22,404
44000600	SIDEWALK REMOVAL	SQFT	5,241
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	120
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQYD	906
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQYD	1,359
44300300	AREA REFLECTIVE CRACK CONTROL TREATMENT, SYSTEM A	SQYD	22,649
44000000	AREA NET ELECTIVE GRACK CONTINUE THE ATMENT, OT OTHER A	1 302 11	,
60248700	VALVE VAULT, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3
60250200	CATCH BASINS TO BE ADJUSTED	EACH	3
60266600	VALVE BOXES TO BE ADJUSTED	EACH	3
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	80
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	10
67100100	MOBILIZATION	LSUM	1
70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2,200
70300210	TEMPORARY PAVEMENT MARKING-LETTERS AND SYMBOLS	SQ FT	40
70300220	TEMPORARY PAVEMENT MARKING - LINE, 4"	FOOT	9,400
70300240	TEMPORARY PAVEMENT MARKING - LINE, 6"	FOOT	800
70300260	TEMPORARY PAVEMENT MARKING - LINE, 12"	FOOT	400
70300280	TEMPORARY PAVEMENT MARKING - LINE, 24"	FOOT	500
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQFT	1,100
* 78000100	THERWOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	. S∰FOOT	40
* 78000200	THE THEORY A COTO DAY (TO STOLET MAN DIVINO) A SHEET ALL	FOOT	9,400
-	THERMOPLASTIC PAVEMENT MARKING - LINE, 4"	FOOT	800
* 78000400 * 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE, 6" THERMOPLASTIC PAVEMENT MARKING - LINE, 12"	FOOT	400
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE, 12 THERMOPLASTIC PAVEMENT MARKING - LINE, 24"	FOOT	500
* 81400115	HANDHOLES TO BE ADJUSTED	EACH	5
7	PARTICIPATION OF THE PARTICIPA	1 0.01	
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	400
XX003435	PORTLAND CEMENT CONCRETE DRIVEWAY REMOVAL	SQYD	. 15
	AND REPLACEMENT		
* XX006257	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	69
* SPECIAL		•	I

Frank Novotny & Associates, Inc.

CITY OF BERWYN, ILLINOIS EAST AVENUE LAPP RESURFACING MFT SECTION NO. 08-00165-00-RS

PROJECT

REVISIONS PER I.D.O.T. REVIEW 5 JEF 7-16-09 PER I.D.O.T. REVIEW

GENERAL NOTES JOINT DETAILS SUMMARY OF QUANTITIES

ROJECT NO 06077 NONE DRAWN/DESIGNED JEP/AMS APRIL, 2009 CHECKED / APPROVED FIELD BOOK NO. JFP/JEF FILE

SHEET

OF

SHEETS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AC TYPE	PERCENT AIR VOIDS			
ROADWAY HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" (IL-9.5mm)	PG 64-22	4% @ 50 GYR			
EVELING BINDER (MACHINE METHOD), N50, 1" (IL-9.5mm)	*PG 64-22	4% @ 50 GYR			
PATCHING		·			
CLASS D PATCHES, TYPE III-IV, 9", (HMA BINDER IL-19.0mm)	*PG 64-22	4% @ 70 GYR			

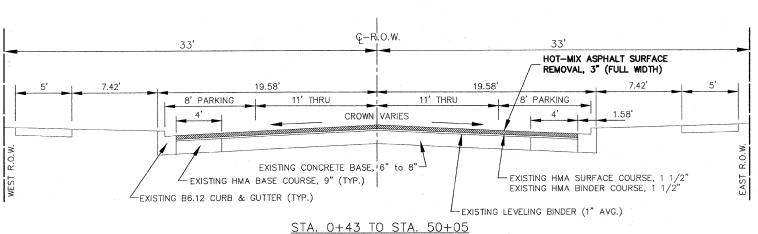
THE UNIT WEIGHT TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN. ** WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

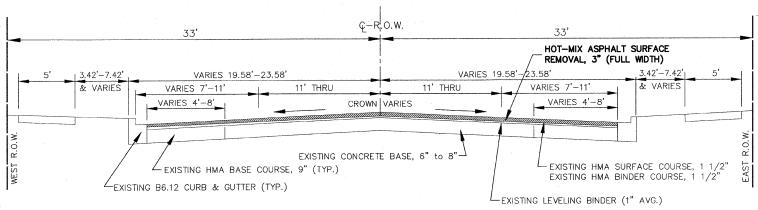
 FAU RTE
 SECTION
 COUNTY
 TOTAL SHEETS NO.

 FAU 2779
 08-00165-00-RS
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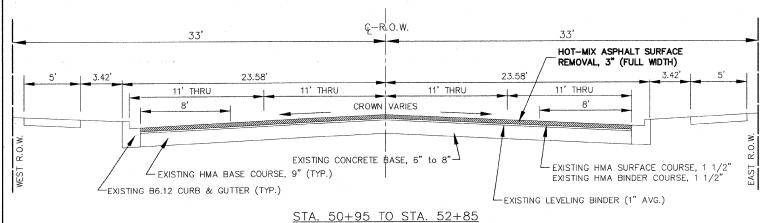
 F.H.W.A. REG.
 ILLINOIS
 PROJECT
 ARA-9003(176)

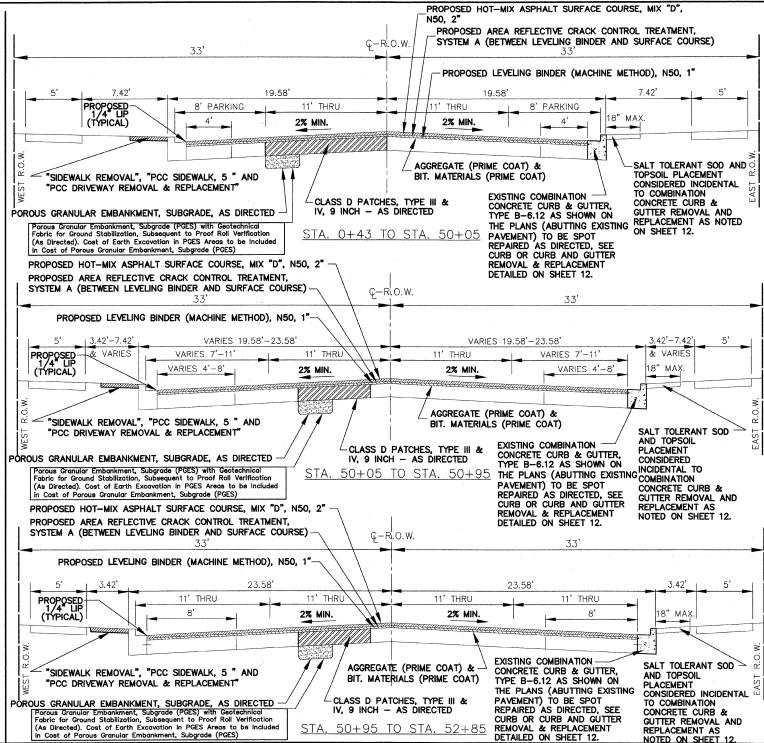
CONTRACT NO. 63203





STA. 50+05 TO STA. 50+95





<u>EXISTING</u>

TYPICAL CROSS SECTIONS

SCALE: 1"=4'

CITY OF BERWYN, ILLINOIS EAST AVENUE LAPP RESURFACING MFT SECTION NO. 08-00165-00-RS

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		1							

YPICAL C	ROSS	SECTIONS
HOT-N	MX AS	PHALT
MIXTURE	REQUI	REMENTS

PROPOSED

	PROJECT NO. 06077	SCALE NONE	SHEET		
	DRAWN/DESIGNED JEP/AMS	DATE APRIL, 2009	OF.		
	CHECKED/APPROVED JFP/JEF	FIELD BOOK NO. FILE	15 SHEETS		
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Civil Engineers/ Municipal Consultants

Frank Novotny & Associates, Inc.

825 Midway Drive \blacklozenge Willowbrook, IL \blacklozenge 60527 \blacklozenge Telephone: (630) 887-8640 \blacklozenge Fax: (630) 887-0132 Illinois Professional Design Firm No. 184-000928

2

CONTRACT NO. 63203

LEGEND

DENOTES HOT-MIX ASPHALT SURFACE REMOVAL, 3", LEVELING BINDER (MACHINE METHOD), N50, 1", AREA RELECTIVE CRACK CONTROL TREATMENT, SYSTEM A (E-E ON EAST AVE. ONLY) AND HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2"

DENOTES HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT, (4.5' WIDTH)

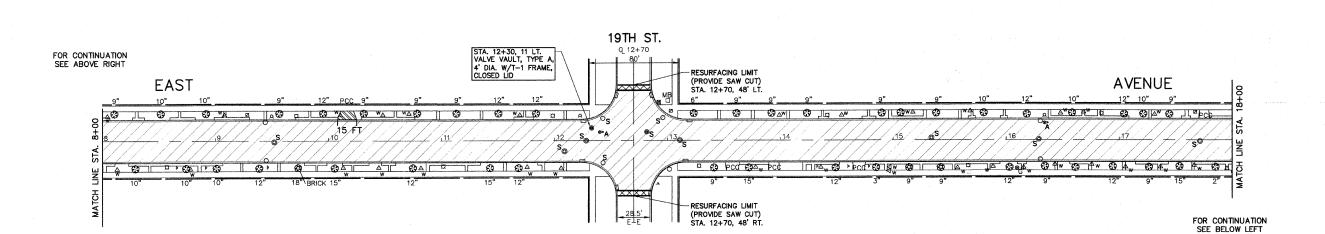
DENOTES PCC DRIVEWAY REMOVAL AND REPLACEMENT

DENOTES SIDEWALK REMOVAL AND P.C. CONCRETE SIDEWALK, 5 INCH. DETECABLE WARNING TO BE INSTALLED AS REQUIRED.

DENOTES VALVE BOXES, HANDHOLES, INLETS, AND CATCH BASINS TO BE ADJUSTED.

DENOTES FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)

DENOTES COMBINATION CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT, DEPRESS CURB ADJACENT TO CURB RAMPS FOR SIDEWALKS AS REQUIRED.



(312" /PCC

EXISTING TYPE B-6.12 CURB & GUTTER

MAR 8 MA 89 % ACA WE II ACA ED / ACE

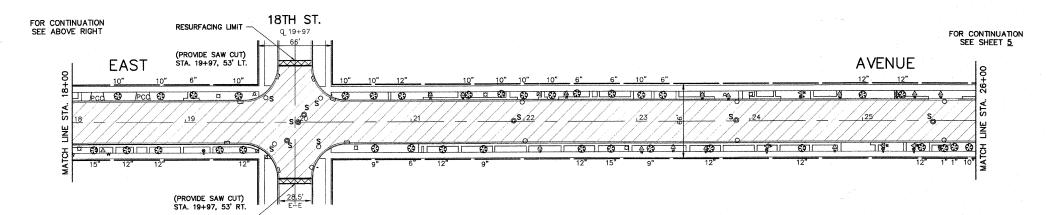
21ST ST.

AVENUE

RESURFACING LIMIT (PROVIDE SAW CUT) STA. 6+64, 48' LT.

(PROVIDE SAW CUT) STA. 6+64, 48' RT.

FOR CONTINUATION SEE BELOW LEFT



FOR TYPICAL CROSS SECTION OF NEW PAVEMENT WORK SEE SHEET 3

NOTE:

1 ALL EXISTING FRAMES AND LIDS THAT ARE TO BE REPLACED (AS DIRECTED BY THE ENGINEER) SHALL BE SALVAGED TO THE CONTRACTOR.

2 ALL SAW CUTS SHALL BE CONSIDERED INCIDENTAL TO THE CONCTRACT

IMPORTANT!

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.



CERMAK RD.

@ 0+00

EAST AVENUE

CONTRACT BEGINS AT STA. 0+43

EAST

Ø / HMA \

Frank Novotny & Associates, Inc.

CITY OF BERWYN, ILLINOIS EAST AVENUE LAPP RESURFACING MFT SECTION NO. 08-00165-00-RS

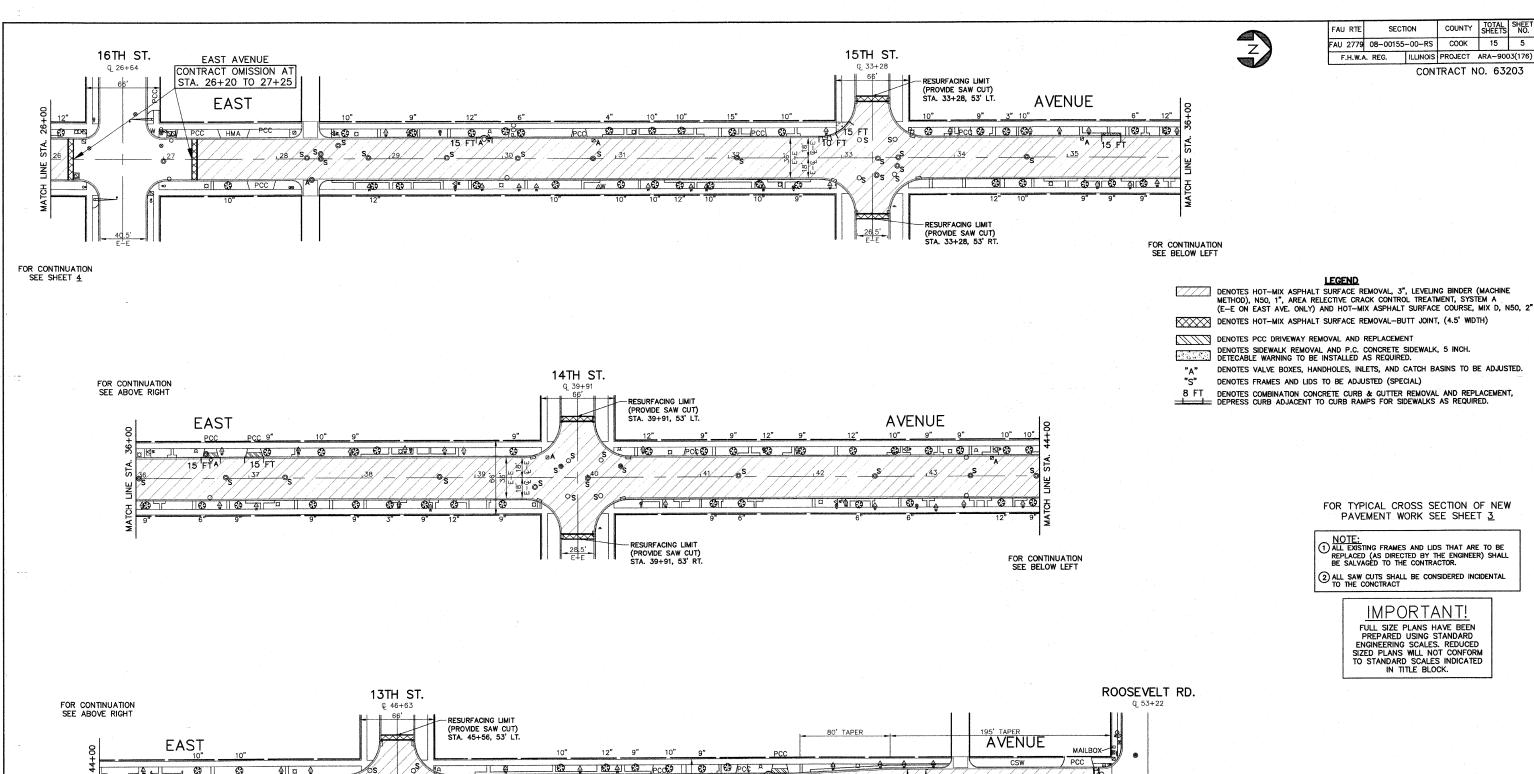
PROJECT

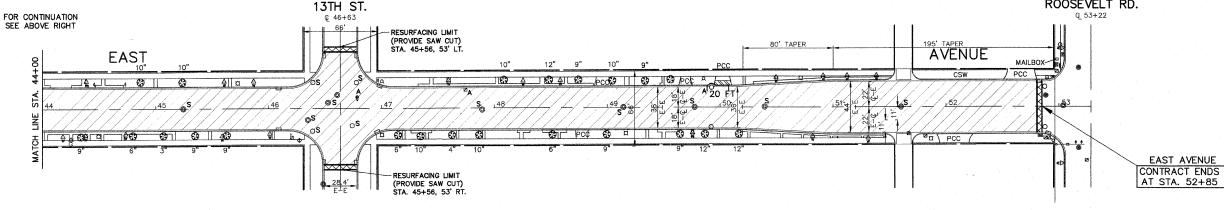
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2	JEF	6-24-09	PER I.D.O.T. REVIEW
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		+	

PLAN SHEET: EAST AVENUE (RESURFACING) CERMAK RD. TO STA. 26+00

PROJECT NO. 06077	SCALE V: 1"=5' H: 1"=40'	SHEET
 DRAWN/DESIGNED JEP/AMS	DATE APRIL, 2009	OF
CHECKED/APPROVED JFP/JEF	FIELD BOOK NO. FILE	15 SHEETS

4 OF 15 HEETS





Civil Engineers/
Municipal Consultants

Frank Novotny & Associates, Inc.

825 Midway Drive • Willowbrook, IL • 60527 • Telephone: (630) 887-8640 • Fax: (630) 887-0132

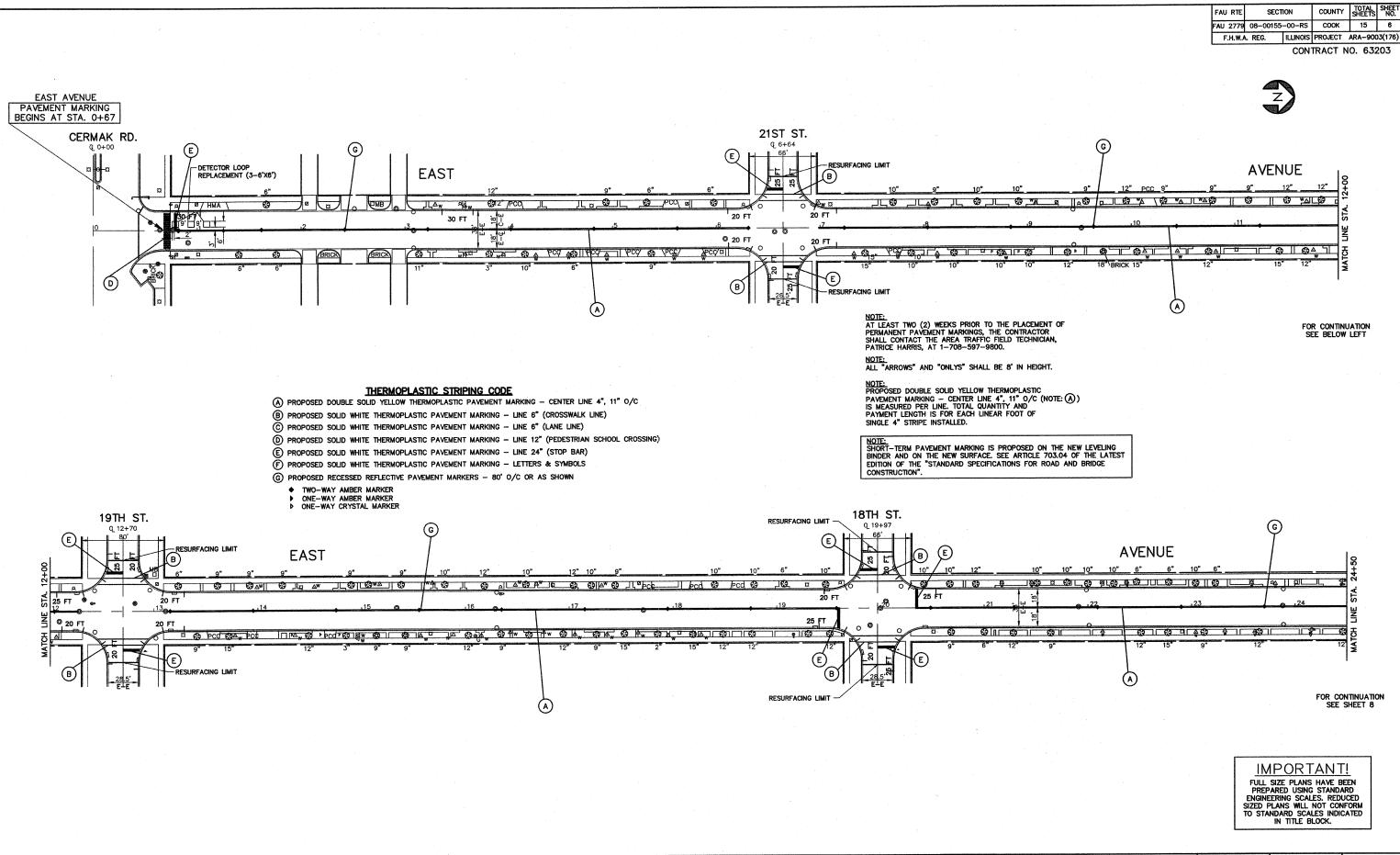
Illinois Professional Design Firm No. 184-000928

CITY OF BERWYN, ILLINOIS
EAST AVENUE LAPP RESURFACING
MFT SECTION NO. 08-00165-00-RS

PROJECT

	R	E V	ISIONS	PLAN SHEET: EAST AVENUE	F
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2	JEF	6-24-09	PER I.D.O.T. REVIEW	(RESURFACING)	T
				1,	1
				STA. 26+00 TO ROOSEVELT RD.	L
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	PROJECT NO. 06077	SCALE V: 1"=5' H: 1"=40'	SHEET
	DRAWN/DESIGNED JEP/AMS	DATE APRIL, 2009	OF .
	CHECKED/APPROVED JFP/JEF	FIELD BOOK NO. FILE	15 SHEETS
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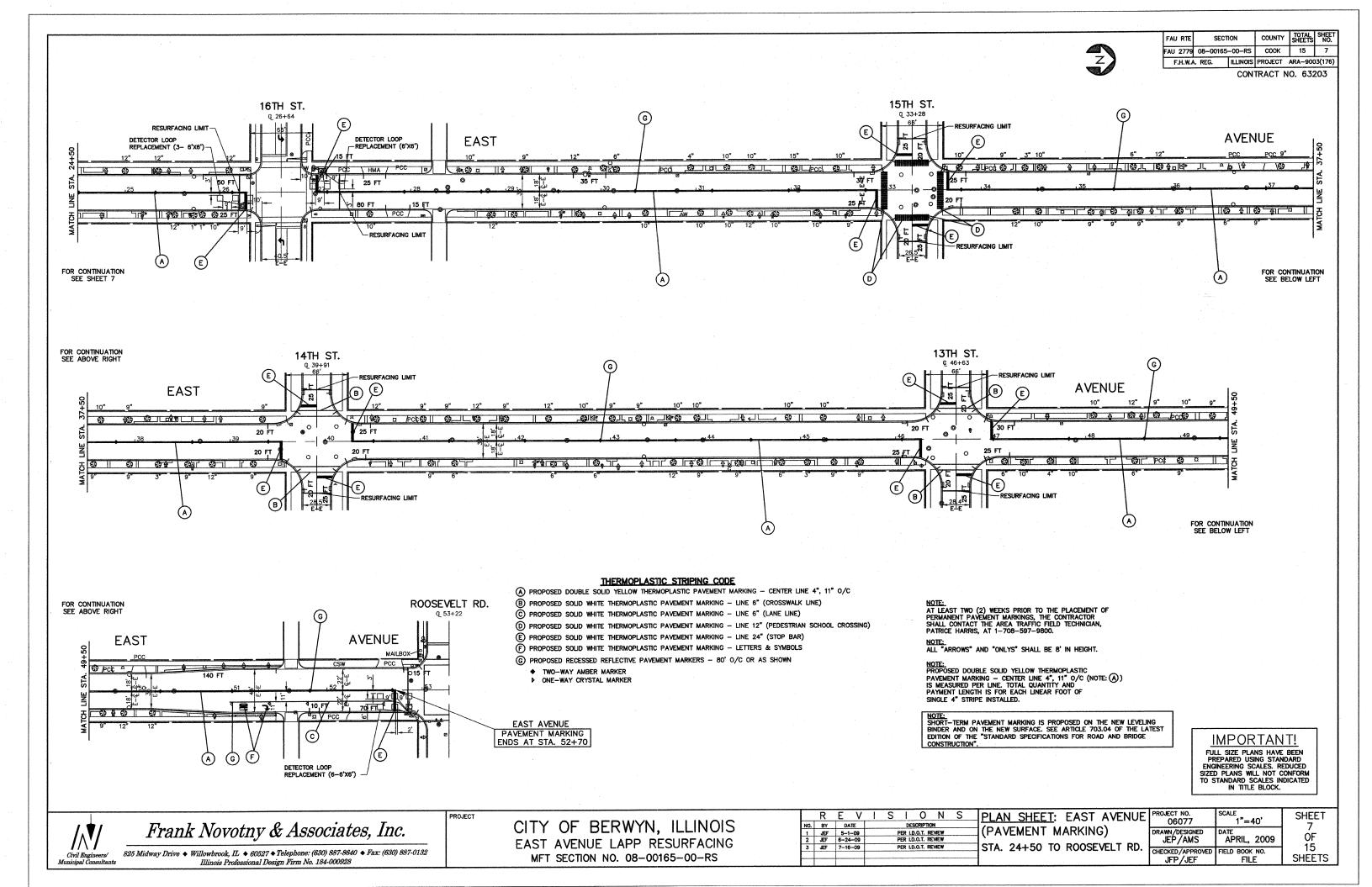
Illinois Professional Design Firm No. 184-000928

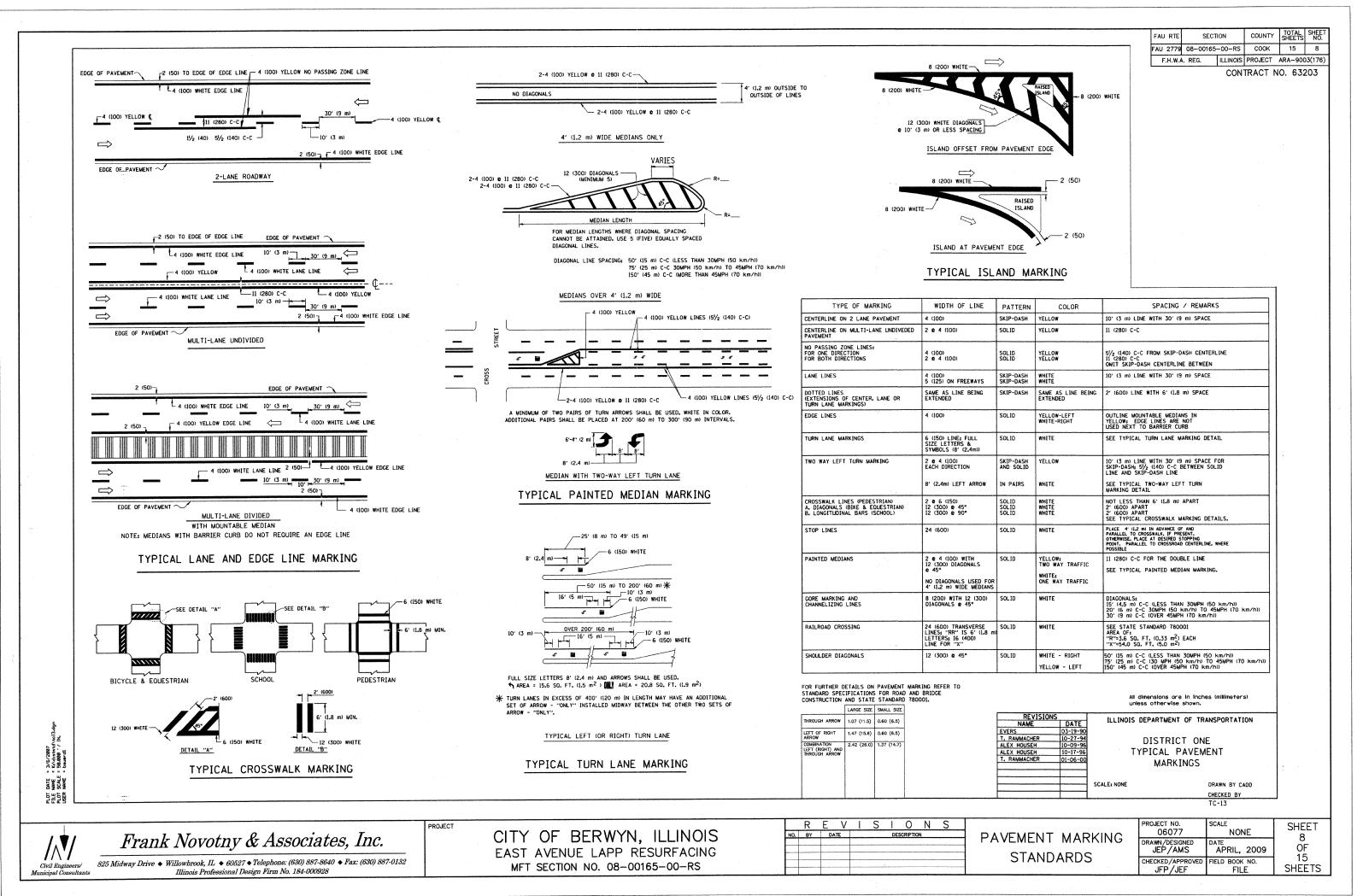
CITY OF BERWYN, ILLINOIS EAST AVENUE LAPP RESURFACING MFT SECTION NO. 08-00165-00-RS

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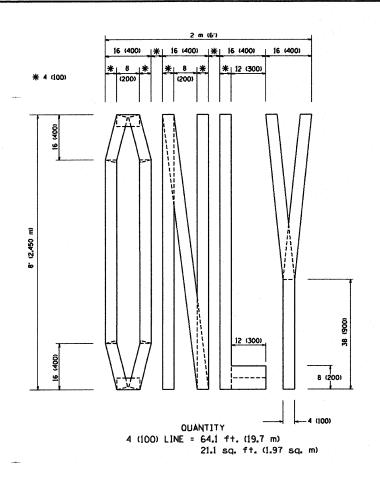


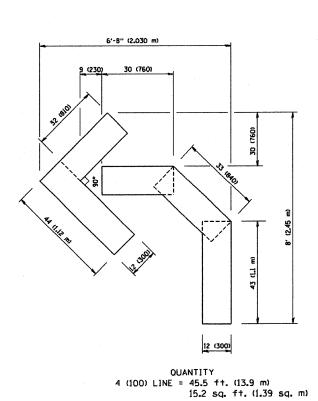
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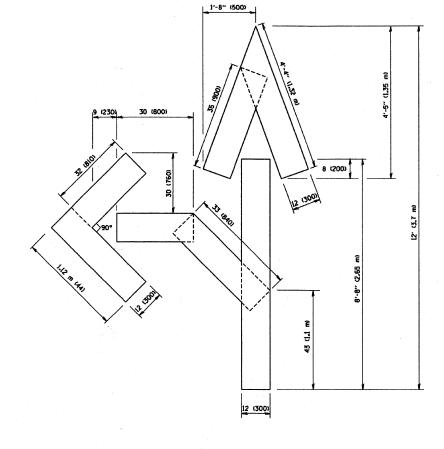
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 F.H.W.A. REG.
 ILLINOIS
 PROJECT
 ARA-9003(176)

CONTRACT NO. 63203







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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

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CHECKED BY TC-16

PLOT DATE = 3.77.2007 FILE MANE = 47.458 w.45.No.16.49n PLOT SCALE = 59.8000 / IN. USER MANE = bougerol

Frank Novotny & Associates, Inc.

825 Midway Drive ♦ Willowbrook, IL ♦ 60527 ♦ Telephone: (630) 887-8640 ♦ Fax: (630) 887-0132

Illinois Professional Design Firm No. 184-000928

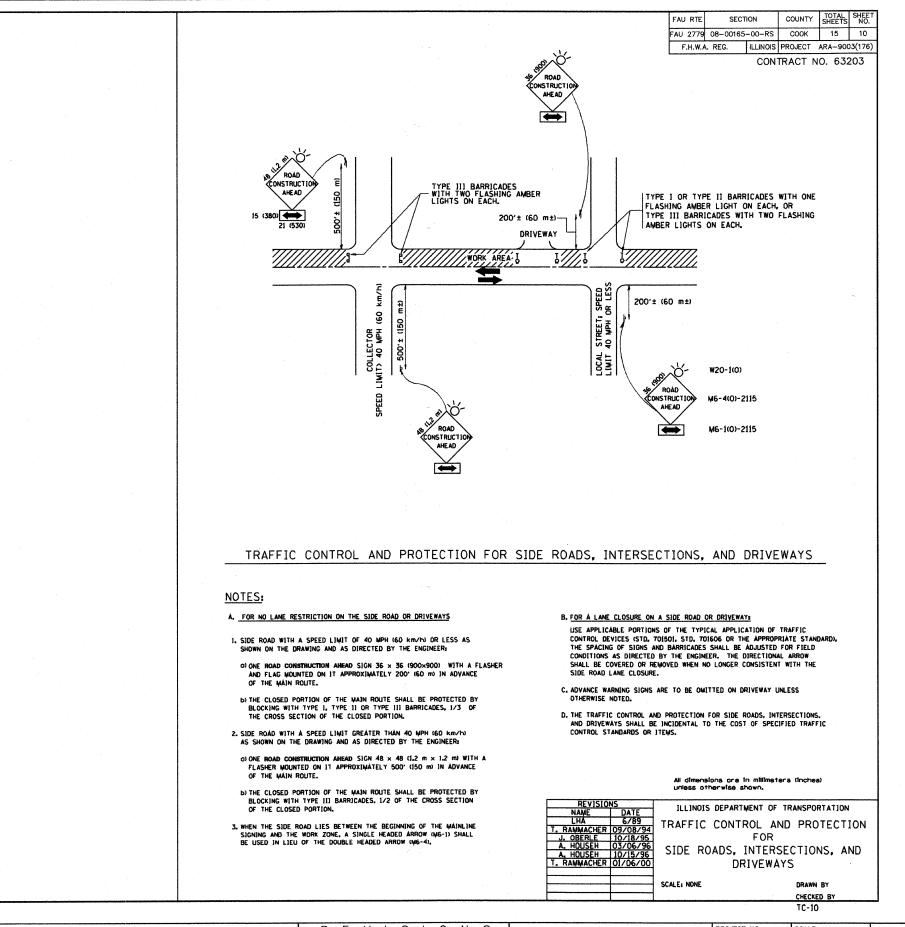
CITY OF BERWYN, ILLINOIS EAST AVENUE LAPP RESURFACING MFT SECTION NO. 08-00165-00-RS

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PROJECT NO. 06077	SCALE NONE
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SHEET 9 OF 15 SHEETS



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Civil Engineers/

Frank Novotny & Associates, Inc.

CITY OF BERWYN, ILLINOIS EAST AVENUE LAPP RESURFACING MFT SECTION NO. 08-00165-00-RS

PROJECT

R E V I S I O N S

NO. BY DATE DESCRIPTION

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

PROJECT NO.
06077 NONE

DRAWN/DESIGNED
JEP/AMS
CHECKED/APPROVED
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SHEET 10 OF 15 SHEETS

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SECTION COUNTY TOTAL SHEET NO. FAU RTE FAU 2779 08-00165-00-RS COOK 15 11 SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ILLINOIS PROJECT ARA-9003(176) F.H.W.A. REG. CONTRACT NO. 63203 WORK ZONE EXIT OPENING - ARROWBOARD TYPE C (FLASHING A BAR OR 4-CORNER) FLAGGER BE PREPARED W20-1101(0)-48 TO STOP 36 x 36 8 CAPS 1000 8' (2.4 m) 5' (1.5 m) MIN. CLEAR HEIGHT FEET BLACK LEGEND ORANGE REFL. BACKGROUND 300' (90 m) MIN. DRUMS @ 50' (15 m) C-C TRAFFIC DIRECTION WORK ZONE ENTRY OPENING LEAVING (W21-I105) 5' (1.5 m) MIN. CLEAR HEIGHT 500' (150 m) [100' (30 m)] 200' (60 m) TRAFFIC DIRECTION - FLAGGER WITH CONTROL SIGN 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. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN 4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists ILLINOIS DEPARTMENT OF TRANSPORTATION SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS SCALE: NONE DRAWN BY CADD CHECKED BY SHEET SIGNING FOR FLAGGING 11

DATE NAME SCALE NAME PLOT FILE 1 USER

Frank Novotny & Associates, Inc. Civil Engineers/ 825 Midway Drive ♦ Willowbrook, IL ♦ 60527 ♦ Telephone: (630) 887-8640 ♦ Fax: (630) 887-0132

Municipal Consultants

| Illinois Professional Design Firm No. 104 00000

CITY OF BERWYN, ILLINOIS EAST AVENUE LAPP RESURFACING MFT SECTION NO. 08-00165-00-RS

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OPERATIONS AT WORK ZONE OPENINGS

PROJECT NO.	SCALE
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COUNTY TOTAL SHEET NO. FAU 2779 08-00165-00-RS COOK 15 12 ILLINOIS PROJECT ARA-9003(176) F.H.W.A. REG. VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS CONTRACT NO. 63203 (SEE NOTE (2)) PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE 2) SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM. SEE STATE STANDARD 606001 18" (450) MAX. EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE) -1/4" (5) EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE OR GROUND. PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SOD AND TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE (1)). EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB - 3" (75) MIN. AND GUTTER REMOVAL AND REPLACEMENT) * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE. PROPOSED 34" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST * * IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.) WITH THE PAVEMENT. NOTE: (1) SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY BEING REMOVED AND WILL BE PAID FOR SEPARATELY. THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE. BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT. REMOVAL AND REPLACEMENT 4" (100) OR LESS IS 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. REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS. 3 FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS. PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 4 LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT. BY THE ENGINEER. (SEE NOTE 3). (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. BASIS OF PAYMENT: (6) THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 FOOT FOR "CURB & GUTTER REMOVAL" AND "COMBINATION CONCRETE CURB & GUTTER" OF THE TYPE INDICATED. 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. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN. ILLINOIS DEPARTMENT OF TRANSPORTATION CURB OR CURB AND GUTTER CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT REMOVAL AND REPLACEMENT

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12 OF 15

SHEETS



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CITY OF BERWYN, ILLINOIS EAST AVENUE LAPP RESURFACING MFT SECTION NO. 08-00165-00-RS

PROJECT

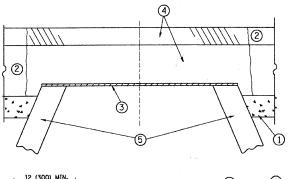
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PROJECT NO. 06077	SCALE NONE	
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COUNTY TOTAL SHEET NO. SECTION FAU 2779 08-00165-00-RS COOK 15 13 F.H.W.A. REG. ILLINOIS PROJECT ARA-9003(176)

CONTRACT NO. 63203



12 (300) MIN. BRICK, MORTAR, OR CONC. ADJUSTING RINGS PROPOSED

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.

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.

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 11/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

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

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

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

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT

WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS

ILLINOIS DEPARTMENT OF TRANSPORTATION DETAILS FOR

FRAMES AND LIDS ADJUSTMENT WITH MILLING

CHECKED BY BD600-03 (BD-8)

DATE NAME SCALE NAME

Frank Novotny & Associates, Inc.

825 Midway Drive ♦ Willowbrook, IL ♦ 60527 ♦ Telephone: (630) 887-8640 ♦ Fax: (630) 887-0132 Illinois Professional Design Firm No. 184-000928

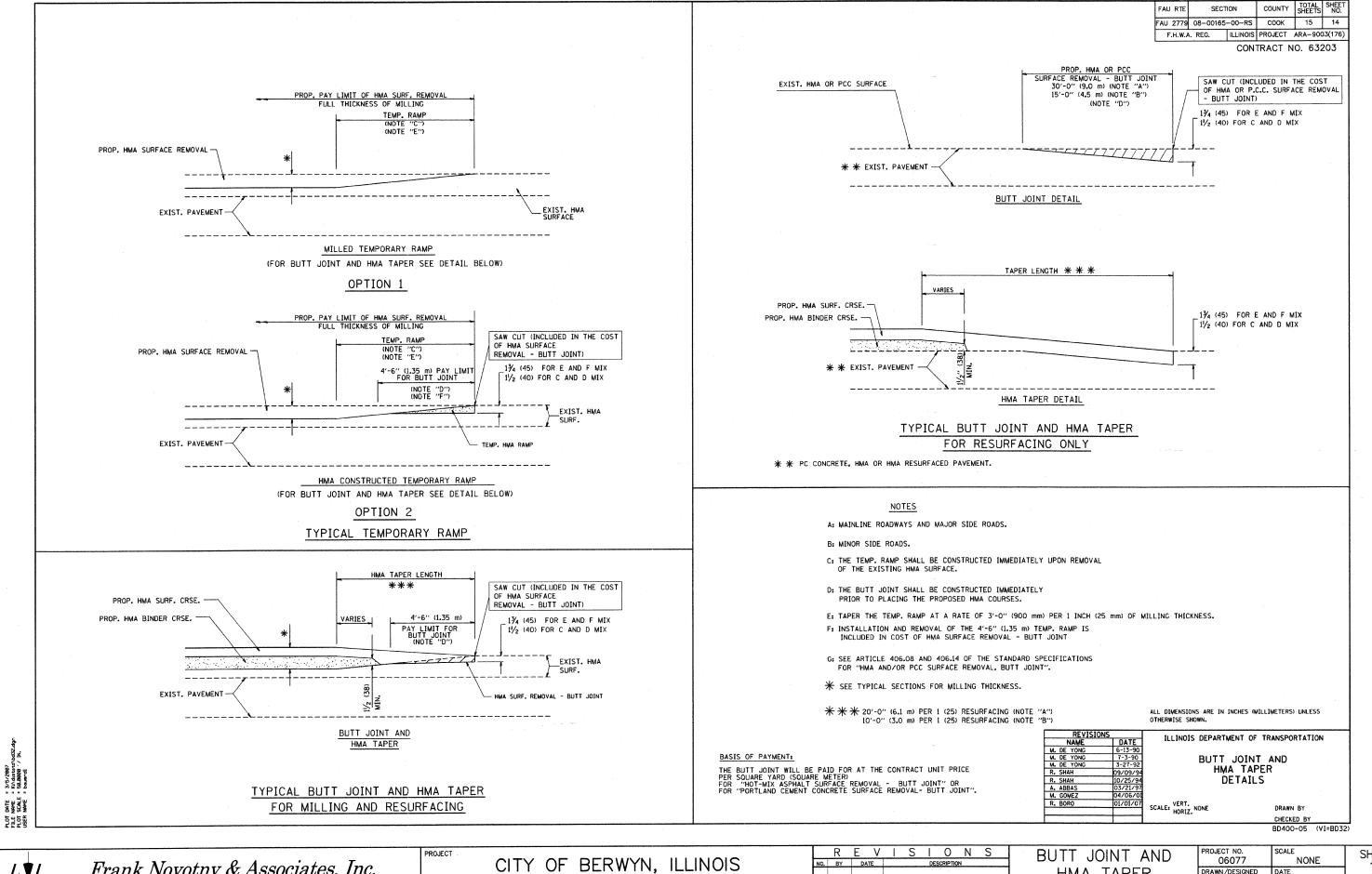
CITY OF BERWYN, ILLINOIS EAST AVENUE LAPP RESURFACING MFT SECTION NO. 08-00165-00-RS

VISIONS NO. BY DATE

FRAMES AND LIDS ADJUSTMENT WITH **MILLING**

PROJECT NO. 06077 NONE JEP/AMS APRIL, 2009 CHECKED/APPROVED FIELD BOOK NO. JFP/JEF FILE

SHEET 13 OF 15 SHEETS



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Frank Novotny & Associates, Inc.

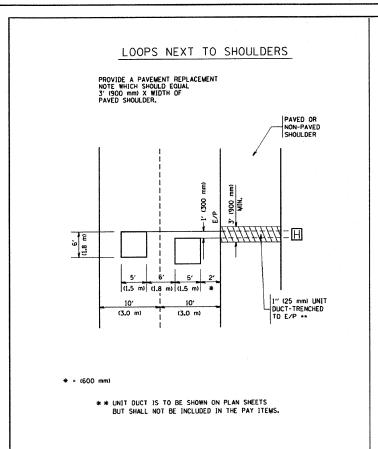
Illinois Professional Design Firm No. 184-000928

EAST AVENUE LAPP RESURFACING MFT SECTION NO. 08-00165-00-RS

HMA TAPER **DETAILS**

JEP/AMS APRIL, 2009 CHECKED/APPROVED FIELD BOOK NO. JFP/JEF

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

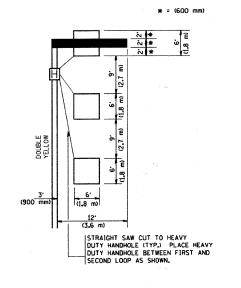
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE LISCO WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN. TRENCHED 1" (25 mm)
UNIT DUCT (3) ** * = (600 mm) STRAIGHT SAW CUTS PERPENDICULAR TO MEDIAN (TYP.)

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

(900 mm

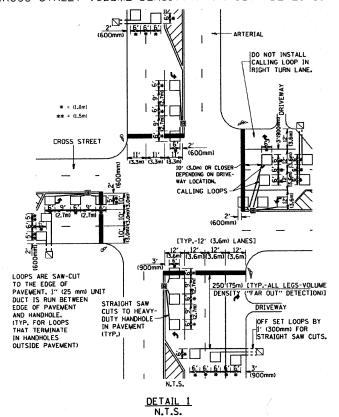
LEFT TURN LANES WITHOUT MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

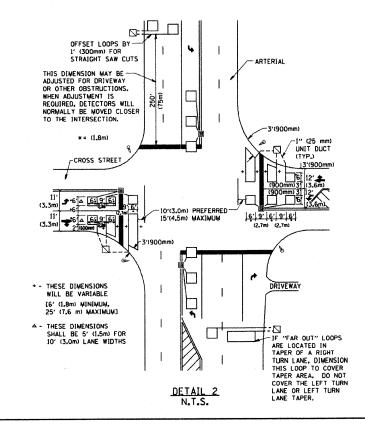


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



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



COUNTY TOTAL SHEET NO. SECTION FAU RTE COOK 15 15 FAU 2779 08-00165-00-RS ILLINOIS PROJECT ARA-9003(176)

CONTRACT NO. 63203

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED,
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE
- * 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. <u>EACH</u> 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.

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 (DF TRANSPORTATION	ON
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DATE NAME SCALE NAME PLOT FILE USER

Frank Novotny & Associates, Inc.

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CITY OF BERWYN, ILLINOIS EAST AVENUE LAPP RESURFACING MFT SECTION NO. 08-00165-00-RS

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DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS OR ROADWAY RESURFACING CHECKED/APPROVED IFP / IFF

ROJECT NO. 06077 NONE DRAWN /DESIGNE JEP/AMS APRIL, 2009 FIELD BOOK NO. FILE

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SHEETS

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