

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	06-00080-00-BT	COOK	16	1
F.H.W.A. REG.	ILLINOIS PROJECT	HPP-3463(004)		

CONTRACT NO. 63220

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

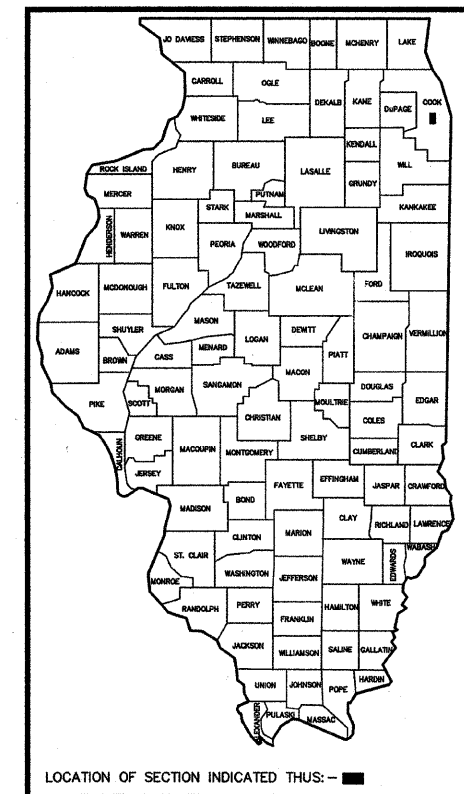
VILLAGE WIDE BIKE PATH - STAGE 1
26TH STREET (FAU RTE. 1459)
FROM 1ST AVE. (FAP 372) TO DES PLAINES AVE. (FAU 2759)
& VILLAGE COMMONS COMPLEX PARKING REHABILITATION
HPP RESURFACING
FEDERAL PROJECT HPP-3463(004)
SECTION NO. 06-00080-00-BT
VILLAGE OF NORTH RIVERSIDE
COOK COUNTY
JOB NO. C-91-390-08

INDEX OF SHEETS

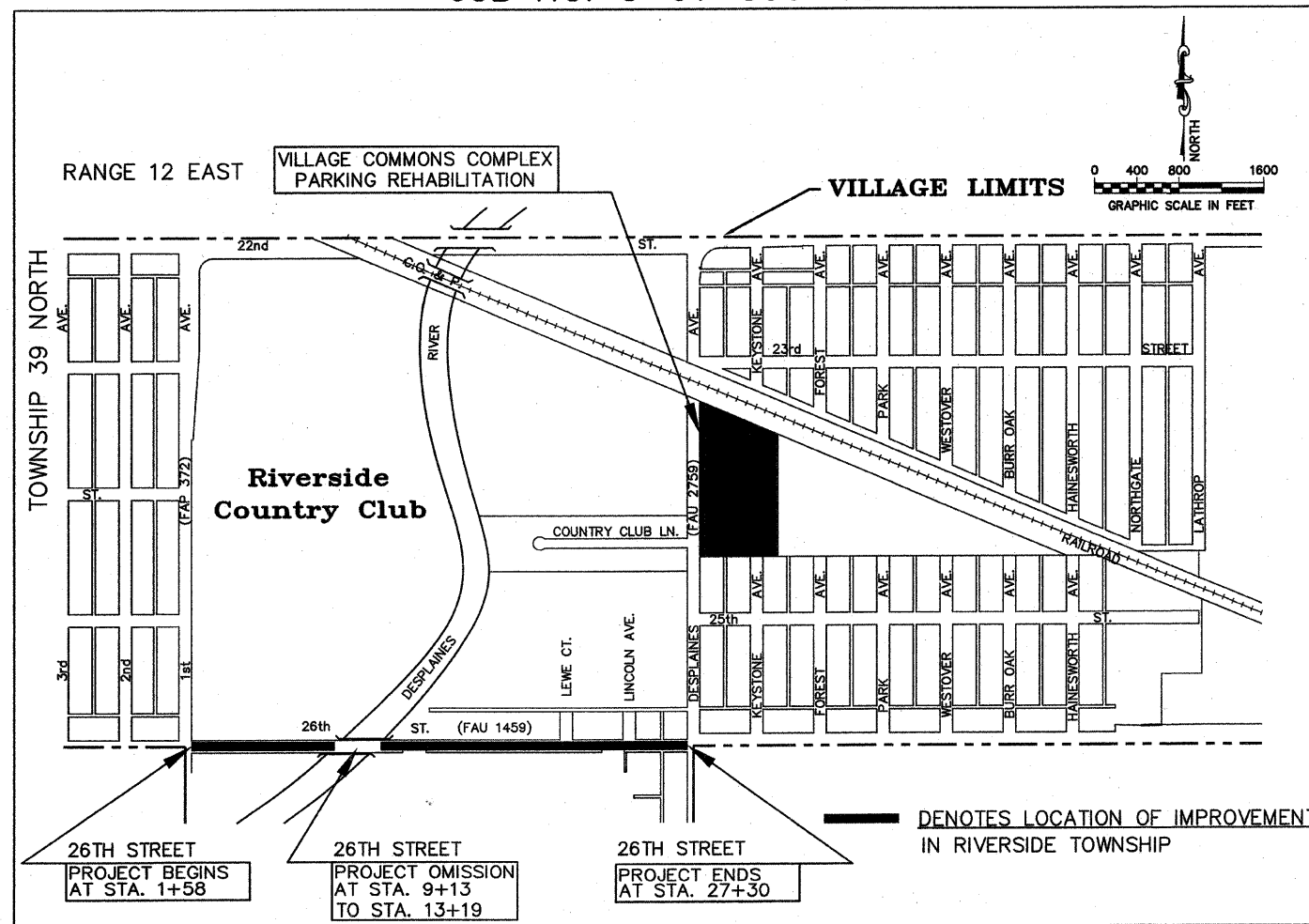
- COVER SHEET, INDEX OF SHEETS, LOCATION MAP, INDEX OF STATE STANDARDS
- GENERAL NOTES, SUMMARY OF QUANTITIES,
- TYPICAL CROSS SECTIONS, HOT-MIX ASPHALT MIXTURE REQUIREMENTS, JOINT DETAILS, TYPICAL ALLEY RETURN DETAILS
- PLAN: 26TH STREET (RESURFACING) - 1st AVENUE TO DES PLAINES AVENUE
- PLAN: 26TH STREET (PAVEMENT MARKING) - 1st AVENUE TO DES PLAINES AVENUE
- 6-8. PLAN: VILLAGE COMMONS COMPLEX PARKING LOTS (RESURFACING & PAVEMENT MARKING)
- DISTRICT ONE TYPICAL PAVEMENT MARKINGS
- TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
- 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
- 420001-07 PAVEMENT JOINTS
- 420111-02 PCC PAVEMENT ROUNDOUTS
- 420701-02 PAVEMENT FABRIC
- 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
- 720001-01 SIGN PANEL MOUNT DETAILS
- 720006-02 SIGN PANEL ERECT DETAILS
- 780001-02 TYPICAL PAVEMENT MARKINGS
- 781001-03 RAISED REFLECTIVE PAVEMENT MARKERS
- 886001-01 DETECTOR LOOP INSTALLATIONS
- 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS



LOCATION OF SECTION INDICATED THUS: - ■ -



LOCATION MAP

LENGTH OF PROJECT

26TH STREET
GROSS LENGTH OF PROJECT 2,572 FEET (0.5061 miles)
NET LENGTH OF PROJECT 2,166 FEET (0.4102 miles)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

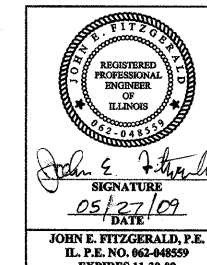
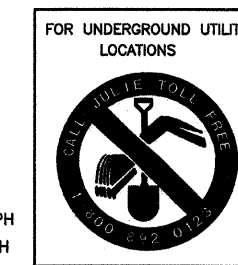
APPROVED May 27 2009

VILLAGE PRESIDENT Kenneth Keeneland

PASSED JUNE 5 2009
CHULT CHIEF ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW JUNE 5, 2009
Diane M. O'Keefe DEPUTY DIRECTOR OF HIGHWAYS, REGION #1 ENGINEER

PROJECT LOCATED IN THE VILLAGE OF NORTH RIVERSIDE PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



TRAFFIC DATA:
ADT (2008): 13,500
POSTED SPEED LIMIT = 35 MPH
DESIGN SPEED LIMIT = 35 MPH

Frank Novotny & Associates, Inc.
825 Midway Drive • Willowbrook, IL • 60527 • Telephone: (630) 887-8640 • Fax: (630) 887-0132
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000285

FIELD DESIGN ENGINEER: MARILIN SOLOMON (847)705-4407
CONSULTANT: FRANK NOVOTNY AND ASSOCIATES, INC. (630)887-8640

CONTRACT NO. 63220

REVISIONS			
NO.	BY	DATE	DESCRIPTION
1	JEF	5-27-09	PER I.D.O.T. REVIEW

**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 SEWER MAIN CONSTRUCTION IN ILLINOIS" MAY GOVERN OTHER WORK ON THIS PROJECT AS INDICATED BY REFERENCE.

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 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, J.U.L.I.E. 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

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 AGENT 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 TAKEOUT 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.

DRAINAGE STRUCTURE RECONSTRUCTION

NOTE:


LOCATIONS OF DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED, SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	06-00080-00-BT	COOK	16	2
F.H.W.A. REG.	ILLINOIS PROJECT	HPP-3463(004)	CONTRACT NO. 63220	

SUMMARY OF QUANTITIES

Item No	Description	Unit	Quantity	26TH STREET	VILLAGE HALL	POLICE FACILITY	PUBLIC WORKS	FIRE DEPT.	PROJECT
				1ST AVE. TO DES PLAINES AVE.	PKING. LOT & RDWY. RESURF.	PKING. LOT & RDWY. RESURF.	PKING. LOT, YARD & RDWY. RESURF.	APRON & PAVMT. REHAB.	
20201500	SUB-BASE GRANULAR MATERIAL, TYPE B	TON	240	40				200	
35800100	PREPARATION OF BASE	SQ YD	9,980		5380		4250	350	
35800200	AGGREGATE BASE REPAIR	TON	290		150		120	20	
35800300	AGGREGATE BASE REPAIR (SPECIAL)	TON	145		75		60	10	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	4,775	1100	1800	335	1450	90	
40600300	AGGREGATE (PRIME COAT)	TON	35	10	10	5	10		
40600535	LEVELING BINDER (HAND METHOD), N70	TON	20	20					
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	650	650					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	120	120					
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N60	TON	1,285		700		550	45	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N60	TON	1,440		600		520	30	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1,270	1270					
42000300	PORTLAND CEMENT CONCRETE PAVEMENT 8"	SQ YD	105	40	65				
42001100	HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	1,570				220	1350	
42001200	PAVEMENT FABRIC	SQ YD	1,570				220	1350	
42001300	PROTECTIVE COAT	SQ YD	1,975	340	65		220	1350	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	1,100	550	300	200	50		
42400800	DETECTABLE WARNINGS	SQ FT	135	10	85	10	30		
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	6,355		1400	3355	1600		
44000181	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	11,000	11000					
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	9,980		5380		4250	350	
44000100	PAVEMENT REMOVAL	SQ YD	325	40	65		220		
44000600	SIDEWALK REMOVAL	SQ FT	1,100	550	300	200	50		
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	735	650	40	20	20	5	
44004400	PAVEMENT REMOVAL (SPECIAL)	SQ YD	1,350					1350	
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	1,075	1000	25		50		
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	1,225	1000	25	100	100		
44300300	AREA REFLECTIVE CRACK CONTROL TREATMENT, SYSTEM A	SQ YD	11,000	11000					
60248700	VALVE VAULT, TYPE A, 4' DIAMETER, TYPE I FRAME, CLOSED LID	EACH	1	1			4	2	
60250200	CATCH BASINS TO BE ADJUSTED	EACH	16	1	7	2			
60255500	MANHOLES TO BE ADJUSTED	EACH	8	5	2				
60260100	INLETS TO BE ADJUSTED	EACH	3	1		1	1		
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	3	1			2		
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	30	30					
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	10						10
67100100	MOBILIZATION	L SUM	1						1
70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1						1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1,200	1200					
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	300	300					
70300220	TEMPORARY PAVEMENT MARKING - LINE, 4"	FOOT	5,500	5500					
70300240	TEMPORARY PAVEMENT MARKING - LINE, 6"	FOOT	5,500	5500					
70300280	TEMPORARY PAVEMENT MARKING - LINE, 12"	FOOT	150	150					
70300280	TEMPORARY PAVEMENT MARKING - LINE, 24"	FOOT	90	90					
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	600	600					
72000100	SIGN PANEL-TYPE 1	SQ FT	13	9				4	
72900100	METAL POST-TYPE A	FOOT	30	20				10	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	300	300					
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE, 4"	FOOT	5,500	5500					
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE, 6"	FOOT	5,500	5500					
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE, 12"	FOOT	150	150					
* 78000850	THERMOPLASTIC PAVEMENT MARKING - LINE, 24"	FOOT	90	90					
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	75		65		5	5	
* 78001110	PAINT PAVEMENT MARKING - LINE, 4"	FOOT	4,000		2300	1150	300	250	
* 78001130	PAINT PAVEMENT MARKING - LINE, 6"	FOOT	230	200	30				
* 78001150	PAINT PAVEMENT MARKING - LINE, 12"	FOOT	200	200					
* 78001180	PAINT PAVEMENT MARKING - LINE, 24"	FOOT	30		30				
* 78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	25	25					
* 81400215	HEAVY-DUTY HANDHOLE TO BE ADJUSTED	EACH	1	1					
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	620	500	120				
* 20017700	DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED	EACH	10	5	2	1	1	1	
* X7800200	PAINT PAVEMENT MARKING, CURB	FOOT	660		400	200	60		
* XX003435	PORTLAND CEMENT CONCRETE DRIVEWAY REMOVAL AND REPLACEMENT	SQ YD	40	40					
* XX006257	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	215	215					
* Z0048685	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1						1

* SPECIALTY ITEM


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

PROJECT **VILLAGE OF NORTH RIVERSIDE, ILLINOIS**
VILLAGE WIDE BIKE PATH - STAGE 1
 26TH STREET RESURFACING (1ST AVENUE TO DES PLAINES AVENUE)
 & VILLAGE COMMONS COMPLEX PARKING REHABILITATION
 M.F.T. SECTION NO. 06-00080-00-BT

R E V I S I O N S			
NO.	BY	DATE	DESCRIPTION
1	JEF	5-27-09	PER I.D.O.T. REVIEW
2	JEF	6-03-09	PER I.D.O.T. REVIEW

GENERAL NOTES
 SUMMARY OF QUANTITIES

PROJECT NO. 03049	SCALE NONE	SHEET 2 OF 16 SHEETS
DRAWN/DESIGNED JEP/AMS	DATE APRIL, 2009	
CHECKED/APPROVED JFP/JEF	FIELD BOOK NO. FILE	

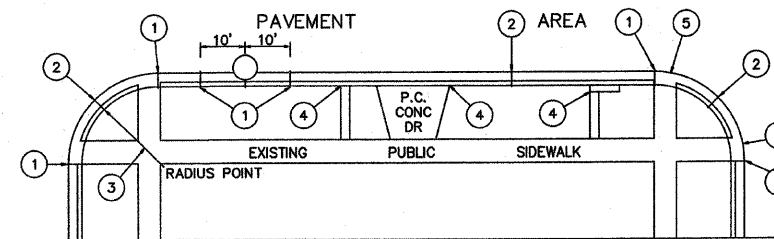
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AC TYPE	PERCENT AIR VOIDS
ROADWAY (26TH STREET)		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2" (IL-9.5mm)	PG 64-22	4% @ 70 GYR
LEVELING BINDER (MACHINE METHOD), N70, 1" (IL-9.5mm)	*PG 64-22	4% @ 70 GYR
ROADWAYS & PARKING LOTS (VILLAGE COMMONS COMPLEX)		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1-1/2" (IL-9.5mm)	PG 64-22	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2-1/4"	*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.

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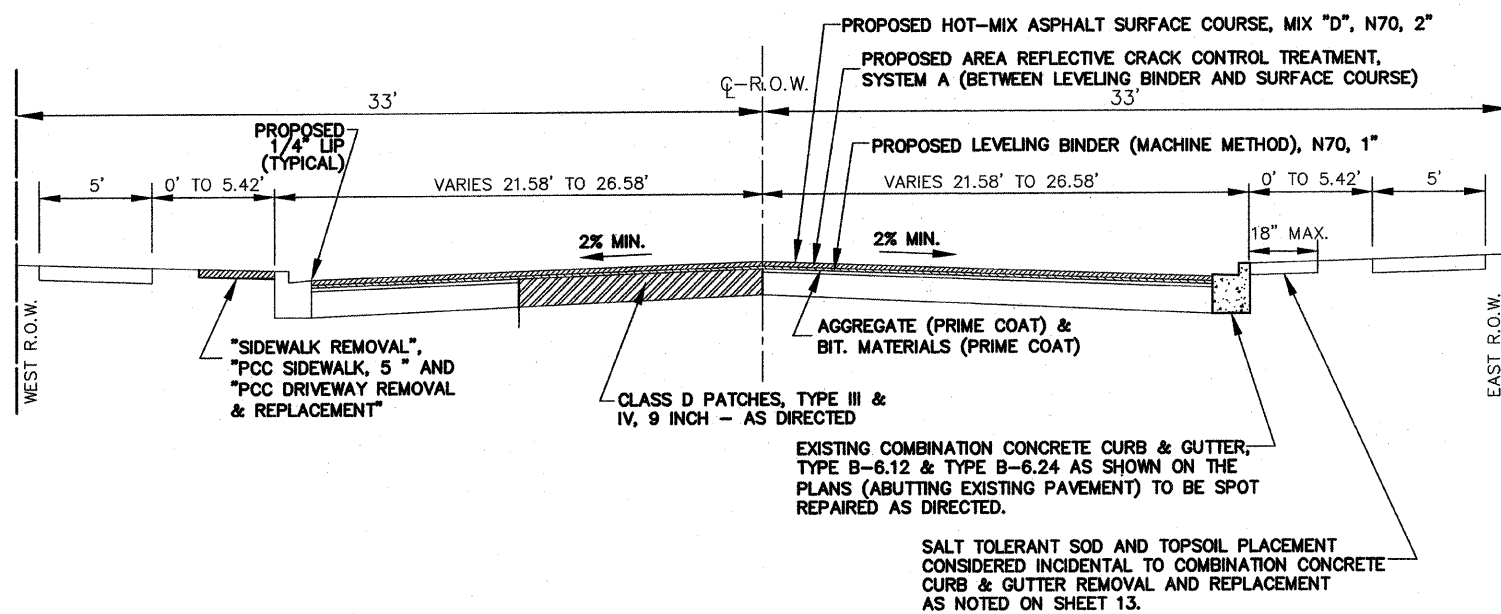
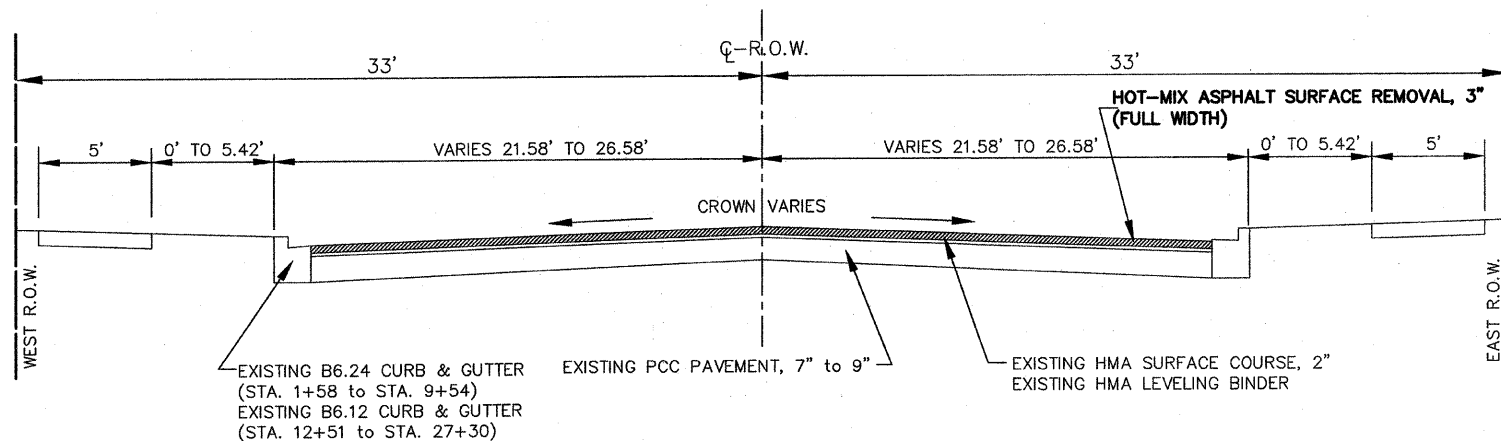
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JOINT DETAILS

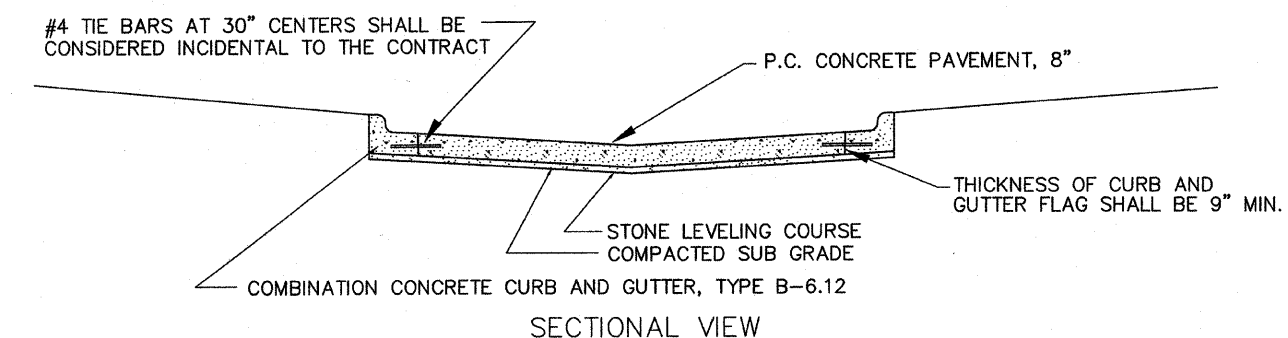
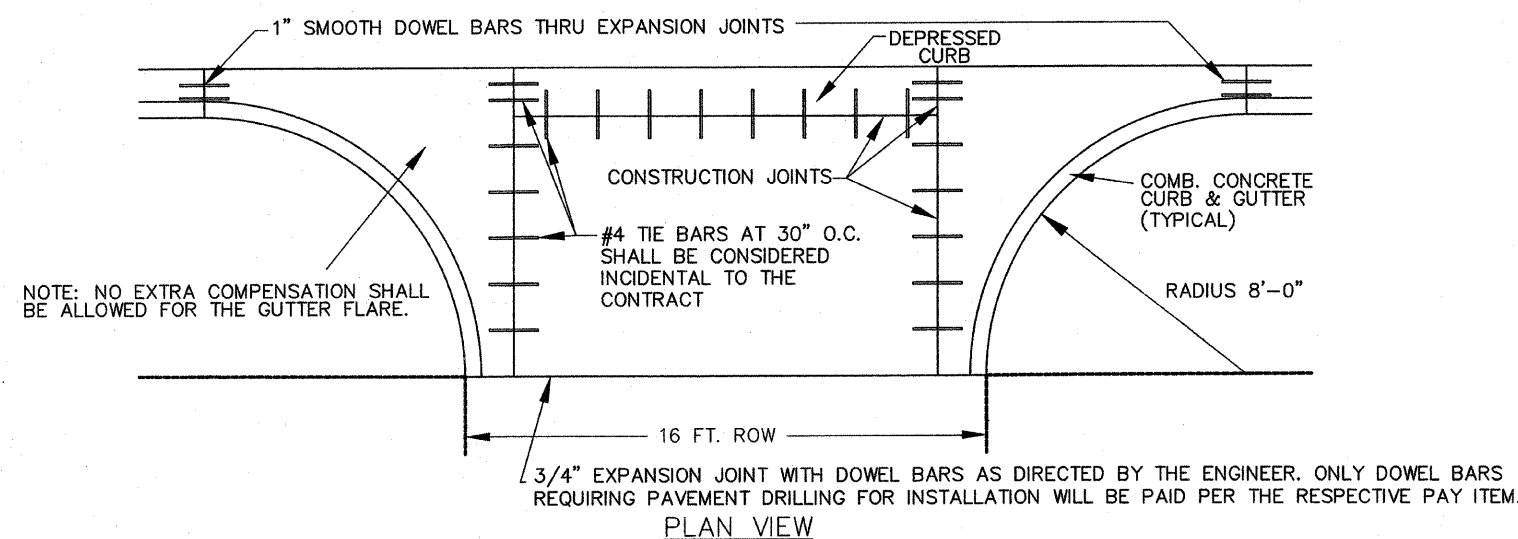
NOTES

- 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.
- CONTRACTION JOINTS AT TWENTY-FIVE FOOT INTERVALS AND AT THE CENTER OF RETURNS.
- ALL RADII SHALL BE 25 FEET TO THE BACK OF CURB UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- LONGITUDINAL EXPANSION JOINT CONSISTING OF ONE INCH PREMOLDED JOINT FILLER.
- 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.



TYPICAL CROSS SECTIONS

SCALE: 1"=4'



TYPICAL ALLEY RETURN

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VILLAGE WIDE BIKE PATH - STAGE 1
26TH STREET RESURFACING (1ST AVENUE TO DES PLAINES AVENUE)
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REVISIONS				
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TYPICAL CROSS SECTIONS
 HOT-MIX ASPHALT
 MIXTURE REQUIREMENTS
 JOINT DETAILS
 TYPICAL ALLEY RETURN DETAILS

PROJECT NO. 03049	SCALE 1"=4'	SHEET 3 OF 16 SHEETS
DRAWN/DESIGNED JEP/AMS	DATE APRIL, 2009	
CHECKED/APPROVED JFP/JEF	FIELD BOOK NO. FILE	

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	06-00080-00-BT	COOK	16	4
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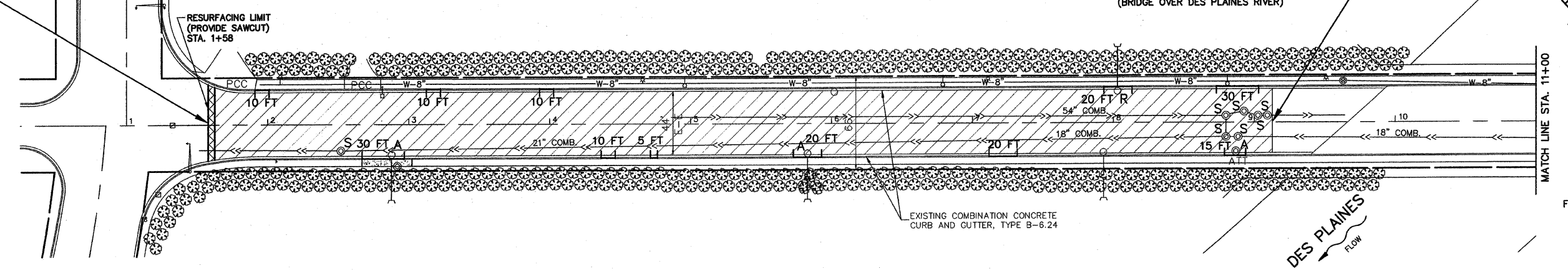


26TH STREET
PROJECT BEGINS
AT STA. 1+58

1ST AVE.
CL 1+00

26TH STREET
PROJECT OMISSION
AT STA. 9+13
TO STA. 13+19

NOTE:
HOT-MIX ASPHALT RESURFACING OMISSION
STA. 9+13 TO STA. 13+18
(BRIDGE OVER DES PLAINES RIVER)



FOR CONTINUATION
SEE BELOW LEFT

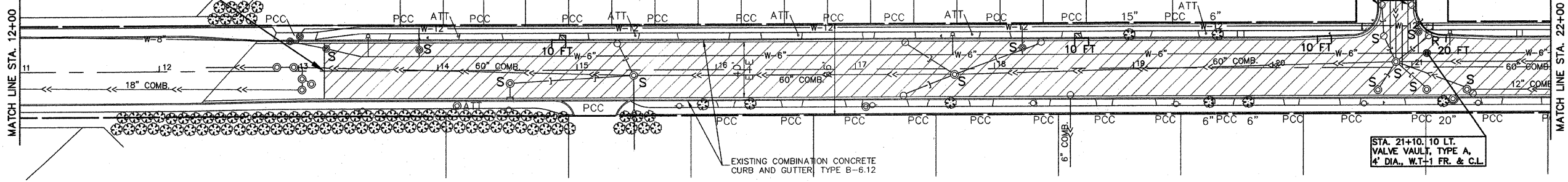
26TH STREET
PROJECT OMISSION
AT STA. 9+13
TO STA. 13+19

LEWE CT.
CL 20+93

FOR CONTINUATION
SEE ABOVE RIGHT

DRAINAGE STRUCTURE TO
BE CLEANED (BY OTHERS)

RESURFACING LIMIT
(PROVIDE SAWCUT)
STA. 20+93, 53' LT.



FOR CONTINUATION
SEE BELOW LEFT

LEGEND

- DENOTES HOT-MIX ASPHALT SURFACE REMOVAL, 3" LEVELING BINDER (MACHINE METHOD), N70, 1", AREA SELECTIVE CRACK CONTROL TREATMENT, SYSTEM A, AND HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 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. DETECTABLE WARNING TO BE INSTALLED AS REQUIRED.
- "A" DENOTES VALVE VAULTS, VALVE BOXES, INLETS, CATCH BASINS, MANHOLES, AND HANDHOLES, TO BE ADJUSTED
- "S" DENOTES FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) (SEE SHEET 14 FOR DETAIL)
- "R" DENOTES DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED
- 8 FT DENOTES COMBINATION CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT, DEPRESS CURB ADJACENT TO CURB RAMPS FOR SIDEWALKS AS REQUIRED.

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 CONTRACT.

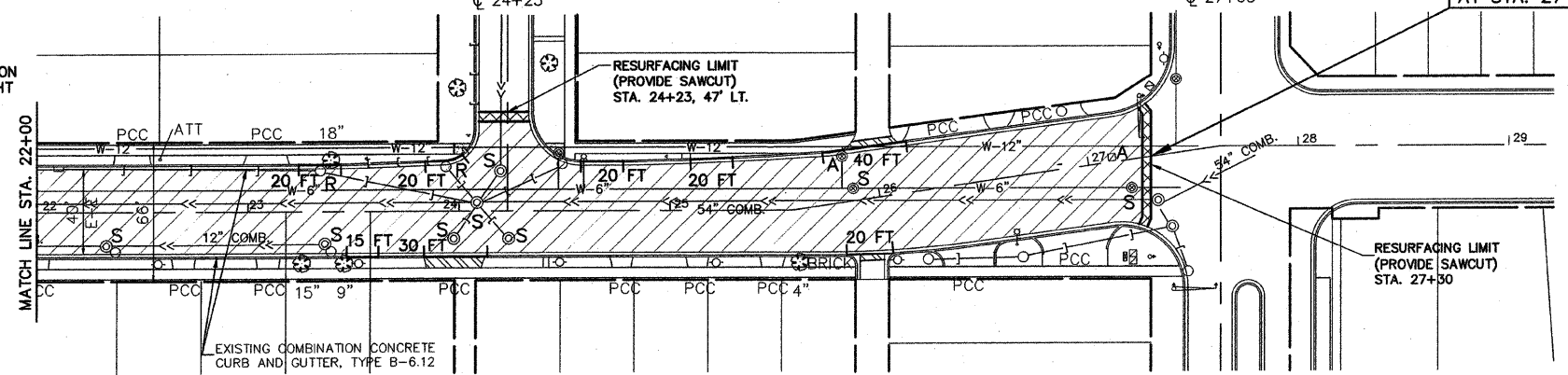
IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

FOR CONTINUATION
SEE ABOVE RIGHT

LINCOLN AVE.
CL 24+23

DES PLAINES AVE.
CL 27+63

26TH STREET
PROJECT ENDS
AT STA. 27+30



NOTE:
REFLECTIVE PAVEMENT MARKERS TO BE REMOVED
PRIOR TO HOT-MIX ASPHALT SURFACE REMOVAL, 3"

Frank Novotny & Associates, Inc.
Civil Engineers/
Municipal Consultants
825 Midway Drive • Willowbrook, IL • 60527 • Telephone: (630) 887-8640 • Fax: (630) 887-0132
Illinois Professional Design Firm No. 184-000928

PROJECT VILLAGE OF NORTH RIVERSIDE, ILLINOIS
VILLAGE WIDE BIKE PATH - STAGE 1
26TH STREET RESURFACING (1ST AVENUE TO DES PLAINES AVENUE)
& VILLAGE COMMONS COMPLEX PARKING REHABILITATION
M.F.T. SECTION NO. 06-00080-00-BT

R E V I S I O N S			
NO.	BY	DATE	DESCRIPTION

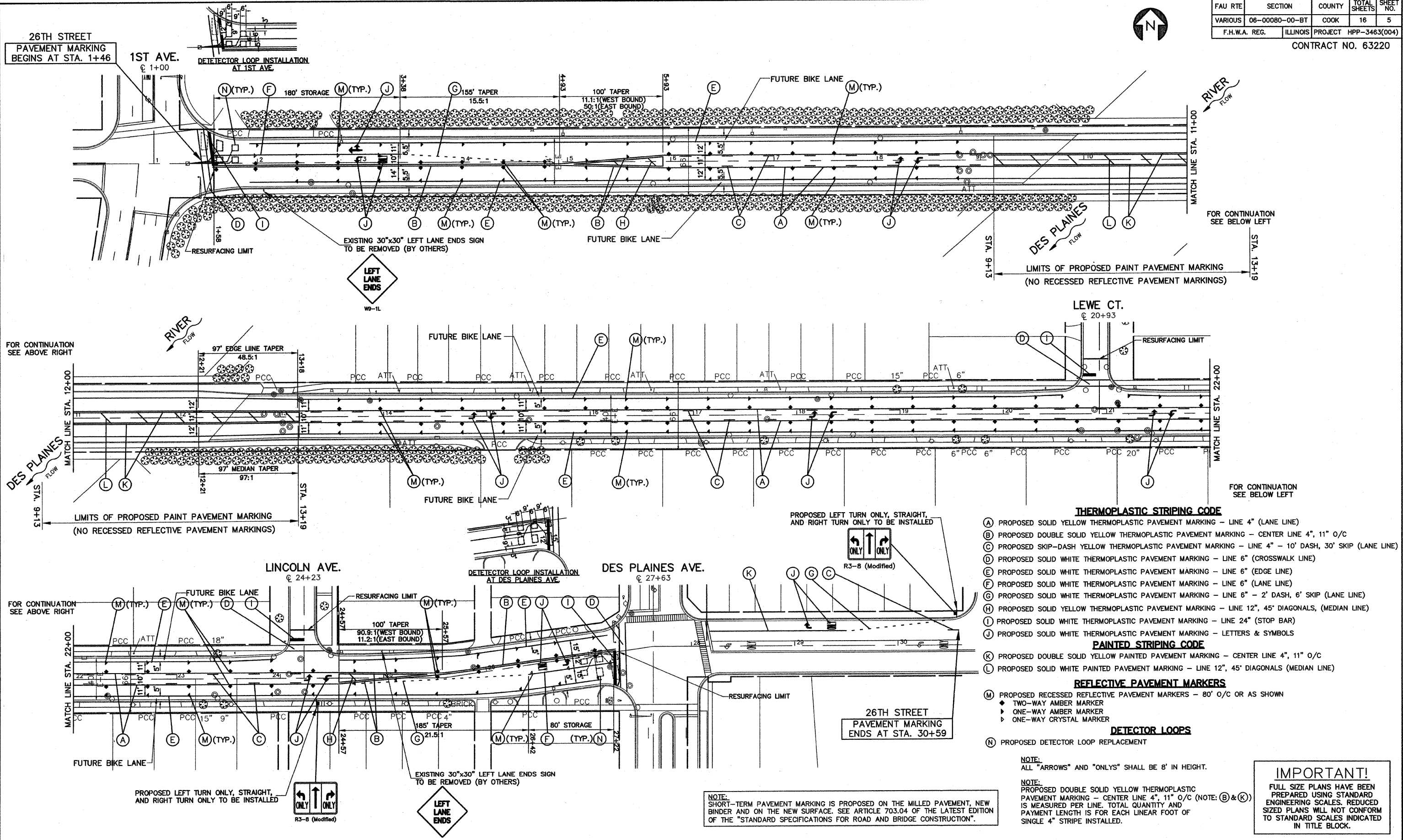
PLAN SHEET: 26TH STREET
(RESURFACING)
1st AVE. TO DES PLAINES AVE.

PROJECT NO. 03049	SCALE 1"=40'	SHEET 4 OF 16 SHEETS
DRAWN/DESIGNED JEP/AMS	DATE APRIL, 2009	
CHECKED/APPROVED JFP/JEF	FIELD BOOK NO. FILE	

I:\North Riverside\030303049 - BIF 24150\Draw 1 - Final\03049_BIF_04-25-09.dwg, 4/27/09 1:55:19 PM, \JEP\EP-24150.DWG

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	06-00080-00-BT	COOK	16	5
F.H.W.A. REG.	ILLINOIS PROJECT	HPP-3463(004)		

CONTRACT NO. 63220



- THERMOPLASTIC STRIPING CODE**
- (A) PROPOSED SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING - LINE 4" (LANE LINE)
 - (B) PROPOSED DOUBLE SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING - CENTER LINE 4", 11" O/C
 - (C) PROPOSED SKIP-DASH YELLOW THERMOPLASTIC PAVEMENT MARKING - LINE 4" - 10' DASH, 30' SKIP (LANE LINE)
 - (D) PROPOSED SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 6" (CROSSWALK LINE)
 - (E) PROPOSED SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 6" (EDGE LINE)
 - (F) PROPOSED SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 6" (LANE LINE)
 - (G) PROPOSED SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 6" - 2' DASH, 6" SKIP (LANE LINE)
 - (H) PROPOSED SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING - LINE 12", 45' DIAGONALS, (MEDIAN LINE)
 - (I) PROPOSED SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 24" (STOP BAR)
 - (J) PROPOSED SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS
- PAINTED STRIPING CODE**
- (K) PROPOSED DOUBLE SOLID YELLOW PAINTED PAVEMENT MARKING - CENTER LINE 4", 11" O/C
 - (L) PROPOSED SOLID WHITE PAINTED PAVEMENT MARKING - LINE 12", 45' DIAGONALS (MEDIAN LINE)
- REFLECTIVE PAVEMENT MARKERS**
- (M) PROPOSED RECESSED REFLECTIVE PAVEMENT MARKERS - 80' O/C OR AS SHOWN
 - ◆ TWO-WAY AMBER MARKER
 - ▶ ONE-WAY AMBER MARKER
 - ▷ ONE-WAY CRYSTAL MARKER
- DETECTOR LOOPS**
- (N) PROPOSED DETECTOR LOOP REPLACEMENT

NOTE:
ALL "ARROWS" AND "ONLYS" SHALL BE 8" IN HEIGHT.

NOTE:
PROPOSED DOUBLE SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING - CENTER LINE 4", 11" O/C (NOTE: (B) & (K)) IS MEASURED PER LINE. TOTAL QUANTITY AND PAYMENT LENGTH IS FOR EACH LINEAR FOOT OF SINGLE 4" STRIPE INSTALLED.

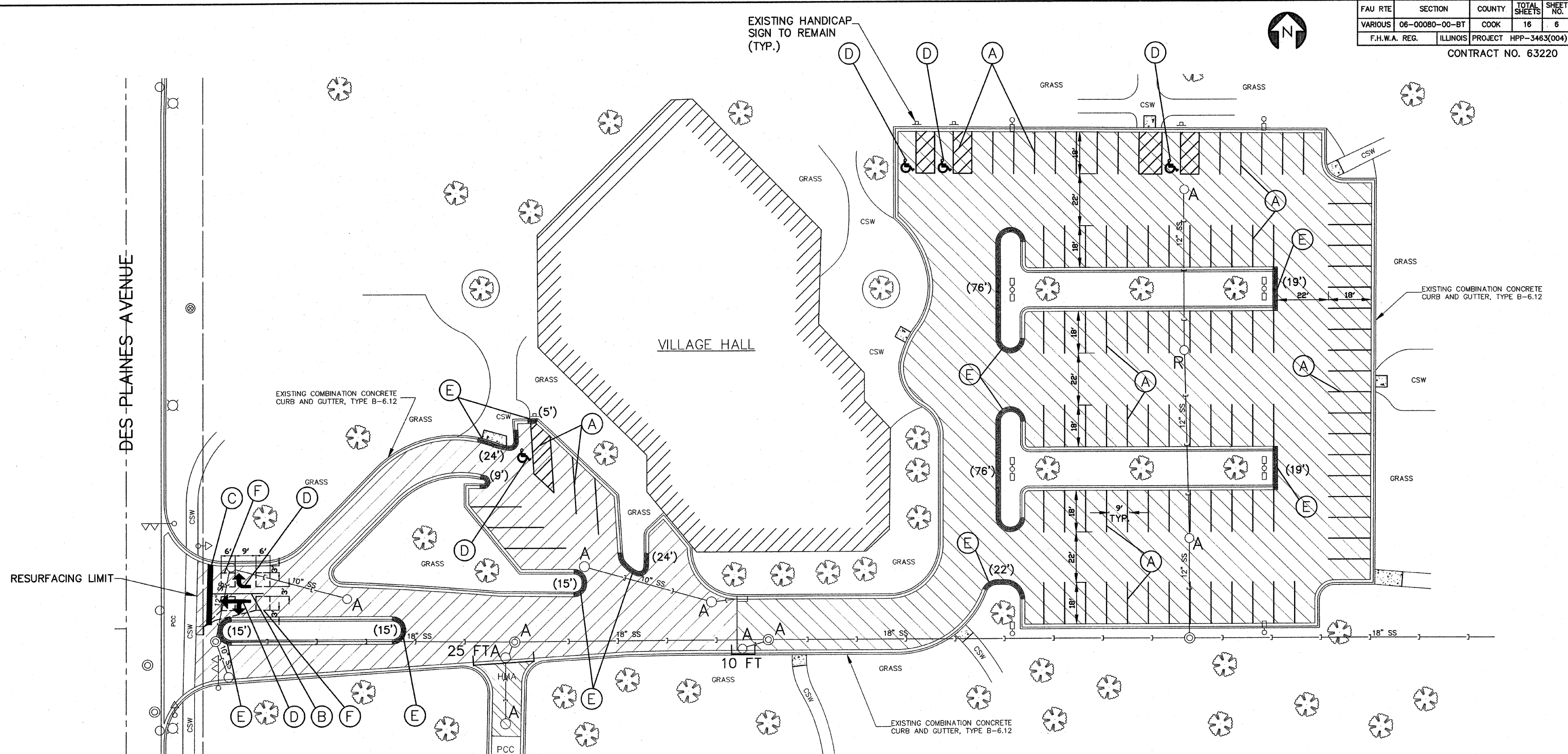
IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

NOTE:
SHORT-TERM PAVEMENT MARKING IS PROPOSED ON THE MILLED PAVEMENT, NEW BINDER AND ON THE NEW SURFACE. SEE ARTICLE 703.04 OF THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

REVISIONS			
NO.	BY	DATE	DESCRIPTION

PLAN SHEET: 26TH STREET
(PAVEMENT MARKING)
1st AVE. TO DES PLAINES AVE.

PROJECT NO. 03049	SCALE 1"=40'	SHEET 5
DRAWN/DESIGNED JEP/AMS	DATE APRIL, 2009	OF 16
CHECKED/APPROVED JFP/JEF	FIELD BOOK NO. FILE	SHEETS



PAINTED STRIPING CODE

- (A) PROPOSED SOLID YELLOW PAINTED PAVEMENT MARKING - LINE 4" (STALL LINE)
- (B) PROPOSED SOLID WHITE PAINTED PAVEMENT MARKING - LINE 6" (LANE LINE)
- (C) PROPOSED SOLID WHITE PAINTED PAVEMENT MARKING - LINE 24" (STOP BAR)
- (D) PROPOSED SOLID WHITE PAINTED PAVEMENT MARKING - LETTERS & SYMBOLS

CURB PAINTING

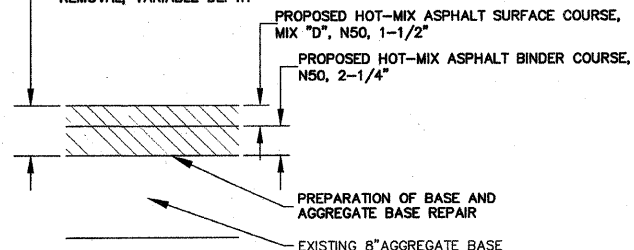
- (E) PROPOSED SOLID YELLOW PAINTED CURB & GUTTER MARKING (LENGTH AS NOTED)

DETECTOR LOOPS

- (F) PROPOSED DETECTOR LOOP REPLACEMENT

NOTE:
ALL "ARROWS" AND "ONLYS" SHALL BE 8" IN HEIGHT.

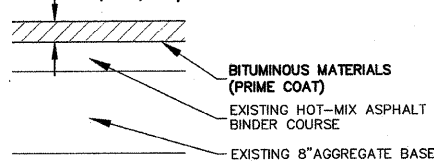
PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH



TYPICAL CROSS SECTION

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH, PREPARATION OF BASE AND AGGREGATE BASE REPAIR
HOT-MIX ASPHALT BINDER COURSE, N50, 2-1/4"
AND HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1-1/2"

PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1-1/2", AND HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1-1/2"



TYPICAL CROSS SECTION

DENOTES HOT-MIX ASPHALT SURFACE REMOVAL, 1-1/2", AND HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1-1/2"

LEGEND

- DENOTES HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH, PREPARATION OF BASE, HOT-MIX ASPHALT BINDER COURSE, N50, 2-1/4" AND HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1-1/2"
- DENOTES HOT-MIX ASPHALT SURFACE REMOVAL, 1-1/2", AND HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1-1/2"
- DENOTES PAVEMENT REMOVAL AND PC CONCRETE PAVEMENT, 8"
- DENOTES SIDEWALK REMOVAL AND P.C. CONCRETE SIDEWALK, 5 INCH. DETECTABLE WARNING TO BE INSTALLED AS REQUIRED.
- "A" DENOTES VALVE VAULTS, VALVE BOXES, INLETS, CATCH BASINS, MANHOLES, AND HANDHOLES, TO BE ADJUSTED
- "R" DENOTES DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED
- (10') DENOTES SOLID YELLOW PAINTED CURB MARKING
- 8 FT DENOTES COMBINATION CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT, DEPRESS CURB ADJACENT TO CURB RAMPS FOR SIDEWALKS AS REQUIRED.

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 CONTRACT.

IMPORTANT!

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

REVISIONS			
NO.	BY	DATE	DESCRIPTION

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	06-00080-00-BT	COOK	16	7
F.H.W.A. REG.	ILLINOIS PROJECT	HPP-3463(004)	CONTRACT NO. 63220	



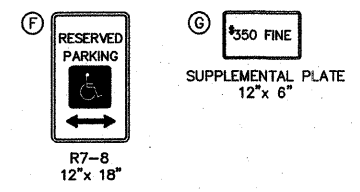
PAINTED STRIPING CODE

- (A) PROPOSED SOLID YELLOW PAINTED PAVEMENT MARKING - LINE 4" (STALL LINE)
- (B) PROPOSED SOLID WHITE PAINTED PAVEMENT MARKING - LINE 6" (LANE LINE)
- (C) PROPOSED SOLID WHITE PAINTED PAVEMENT MARKING - LINE 24" (STOP BAR)
- (D) PROPOSED SOLID WHITE PAINTED PAVEMENT MARKING - LETTERS & SYMBOLS

CURB PAINTING

- (E) PROPOSED SOLID YELLOW PAINTED CURB & GUTTER MARKING (LENGTH AS NOTED)

SIGNING

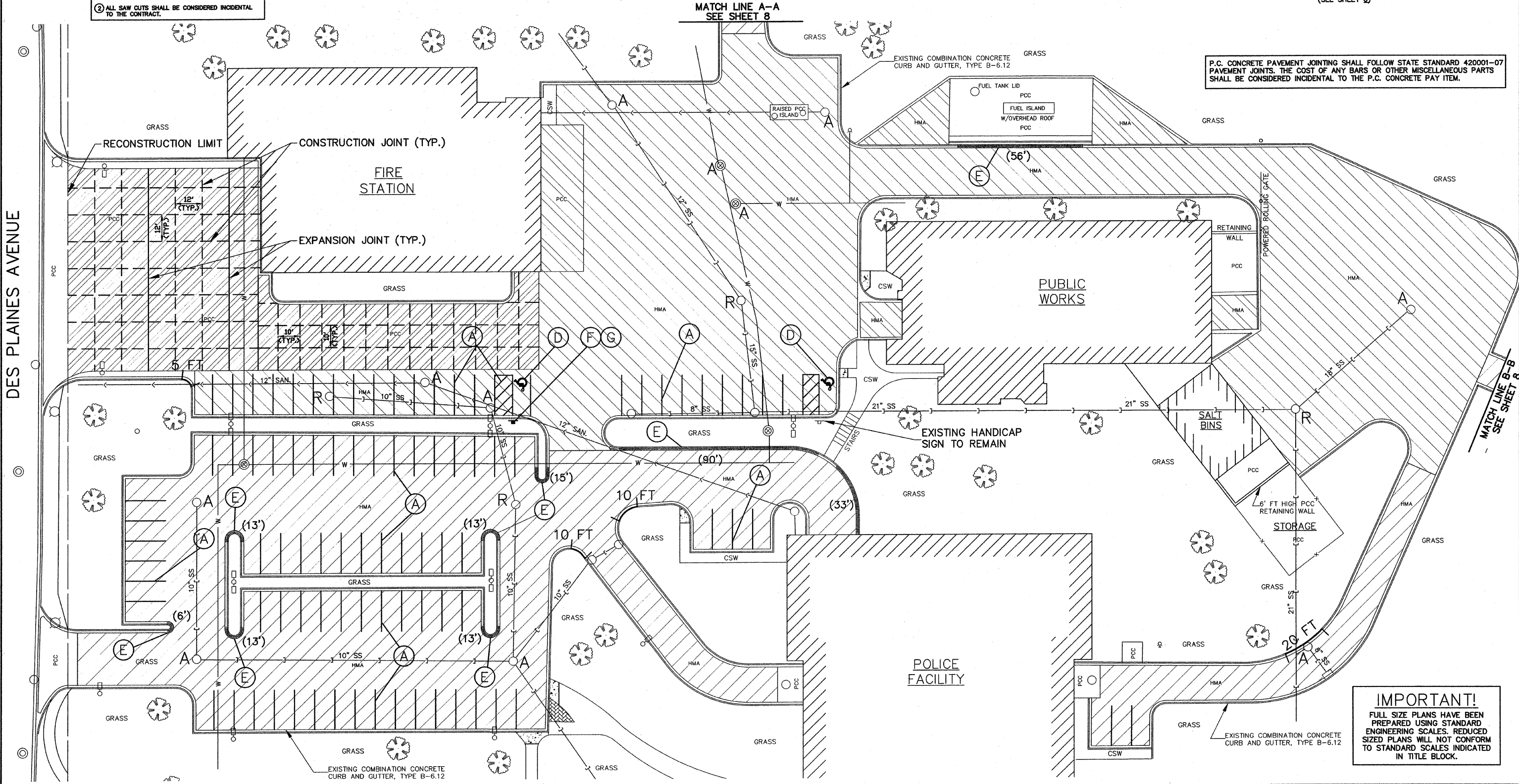


LEGEND

- [Diagonal hatching] DENOTES HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH, PREPARATION OF BASE, HOT-MIX ASPHALT BINDER COURSE, N50, 2-1/4" AND HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1-1/2"
- [Diagonal hatching] DENOTES HOT-MIX ASPHALT SURFACE REMOVAL, 1-1/2", AND HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1-1/2"
- [Diagonal hatching] DENOTES PAVEMENT REMOVAL AND HIGH EARLY STRENGTH P.C. CONCRETE PAVEMENT, 10"
- [Diagonal hatching] DENOTES PAVEMENT REMOVAL (SPECIAL) AND HIGH EARLY STRENGTH P.C. CONCRETE PAVEMENT, 10" AND PAVEMENT FABRIC
- [Diagonal hatching] DENOTES SIDEWALK REMOVAL AND P.C. CONCRETE SIDEWALK, 5 INCH. DETECTABLE WARNING TO BE INSTALLED AS REQUIRED.
- "A" DENOTES VALVE VAULTS, VALVE BOXES, INLETS, CATCH BASINS, MANHOLES, AND HANDHOLES, TO BE ADJUSTED
- "R" DENOTES DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED
- (10') DENOTES SOLID YELLOW PAINTED CURB MARKING
- 8 FT DENOTES COMBINATION CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT, DEPRESS CURB ADJACENT TO CURB RAMPS FOR SIDEWALKS AS REQUIRED.

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 CONTRACT.

FOR TYPICAL CROSS SECTIONS OF NEW PAVEMENT WORK (SEE SHEET 8)



P.C. CONCRETE PAVEMENT JOINTING SHALL FOLLOW STATE STANDARD 420001-07 PAVEMENT JOINTS. THE COST OF ANY BARS OR OTHER MISCELLANEOUS PARTS SHALL BE CONSIDERED INCIDENTAL TO THE P.C. CONCRETE PAY ITEM.

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

Frank Novotny & Associates, Inc.
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 825 Midway Drive • Willowbrook, IL • 60527 • Telephone: (630) 887-8640 • Fax: (630) 887-0132
 Illinois Professional Design Firm No. 184-000228

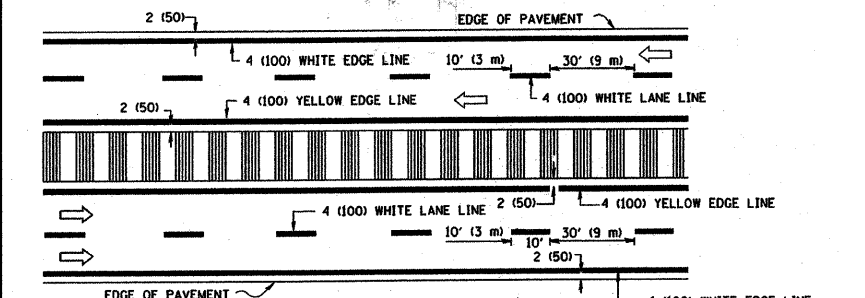
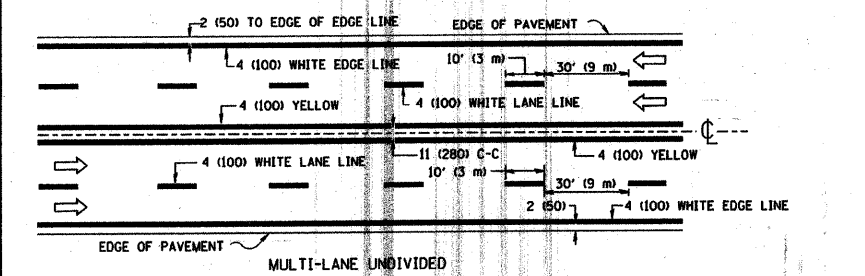
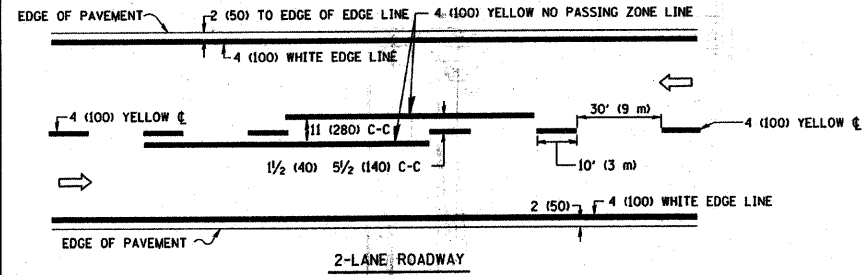
PROJECT VILLAGE OF NORTH RIVERSIDE, ILLINOIS
 VILLAGE WIDE BIKE PATH - STAGE 1
 26TH STREET RESURFACING (1ST AVENUE TO DES PLAINES AVENUE)
 & VILLAGE COMMONS COMPLEX PARKING REHABILITATION
 M.F.T. SECTION NO. 06-00080-00-BT

REVISIONS			
NO.	BY	DATE	DESCRIPTION

PLAN SHEET: VILLAGE COMMONS (RESURFACING & PAVEMENT MARKING)
 VILLAGE POLICE FACILITY, PUBLIC WORKS, & FIRE STATION PARKING LOT, ROADWAYS, APRONS, & YARD RESURFACING

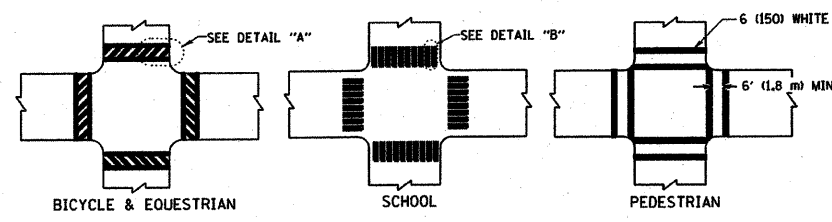
PROJECT NO. 03049	SCALE NONE	SHEET 7
DRAWN/DESIGNED JEP/AMS	DATE APRIL, 2009	OF 16
CHECKED/APPROVED JFP/JEF	FIELD BOOK NO. FILE	SHEETS

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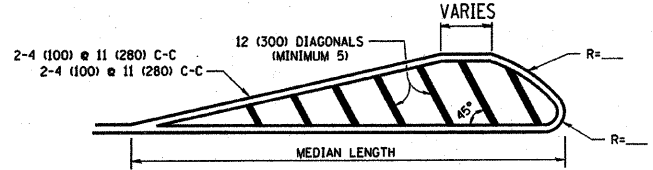
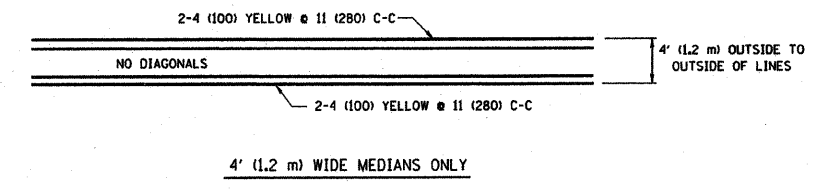


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

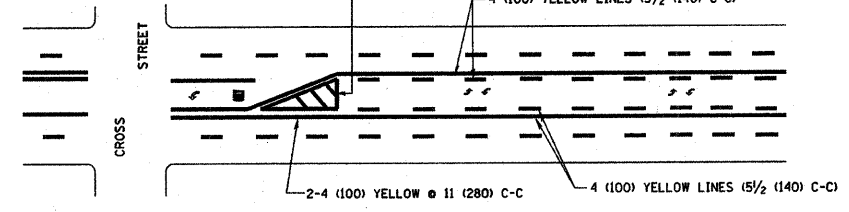


TYPICAL CROSSWALK MARKING

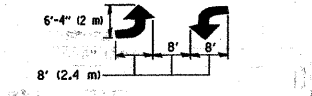


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

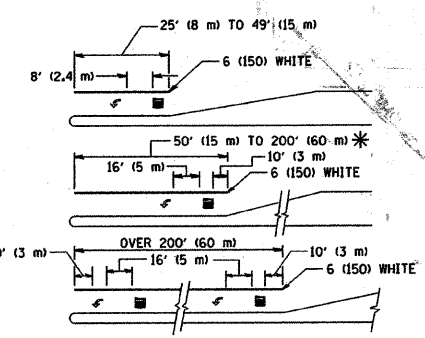
MEDIANS OVER 4' (1.2 m) WIDE



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.



TYPICAL PAINTED MEDIAN MARKING

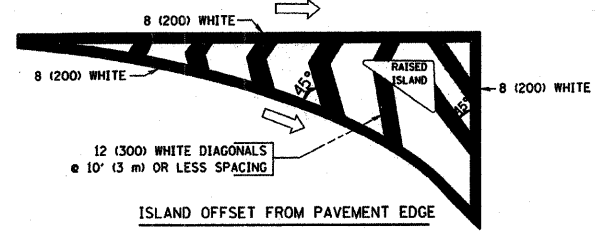


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

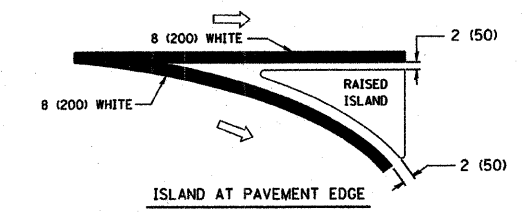
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

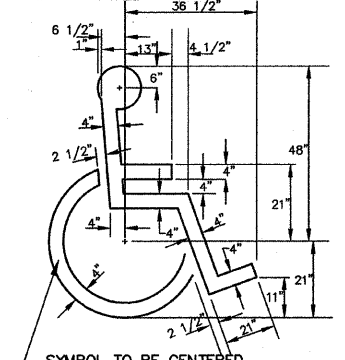


ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



SYMBOL TO BE CENTERED ON WIDTH OF PARKING STALL

AREA: 6.0 SF.

HANDICAP SYMBOL

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

	LARGE SIZE	SMALL SIZE
THROUGH ARROW	1.07 (11.5)	0.60 (6.5)
LEFT OR RIGHT ARROW	1.47 (15.6)	0.60 (6.5)
COMBINATION LEFT (RIGHT) AND THROUGH ARROW	2.42 (26.0)	1.37 (14.7)

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
CHECKED BY TC-13

PLOT DATE: 3/5/2007
FILE NAME: K:\projects\03049\03049.dwg
PLOT SCALE: 1/8" = 1'-0"
USER NAME: bboard

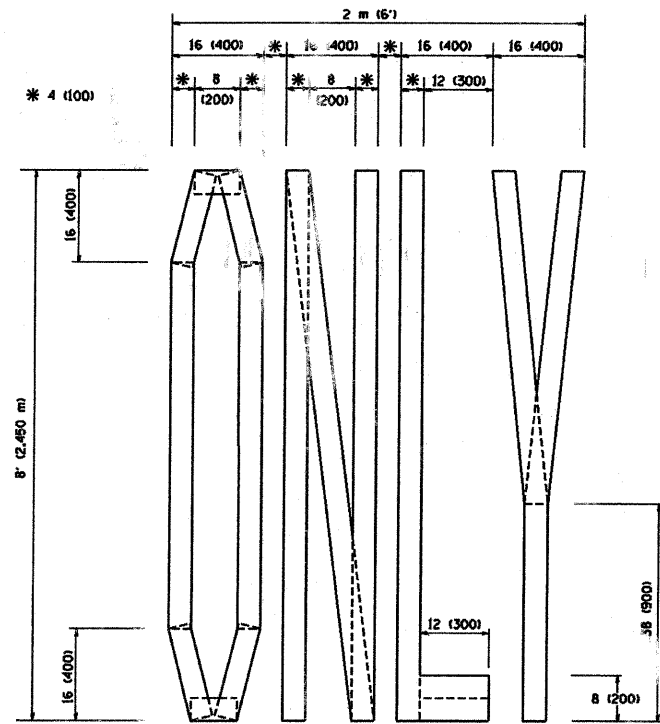
REVISIONS			
NO.	BY	DATE	DESCRIPTION

**PAVEMENT MARKING
STANDARDS**

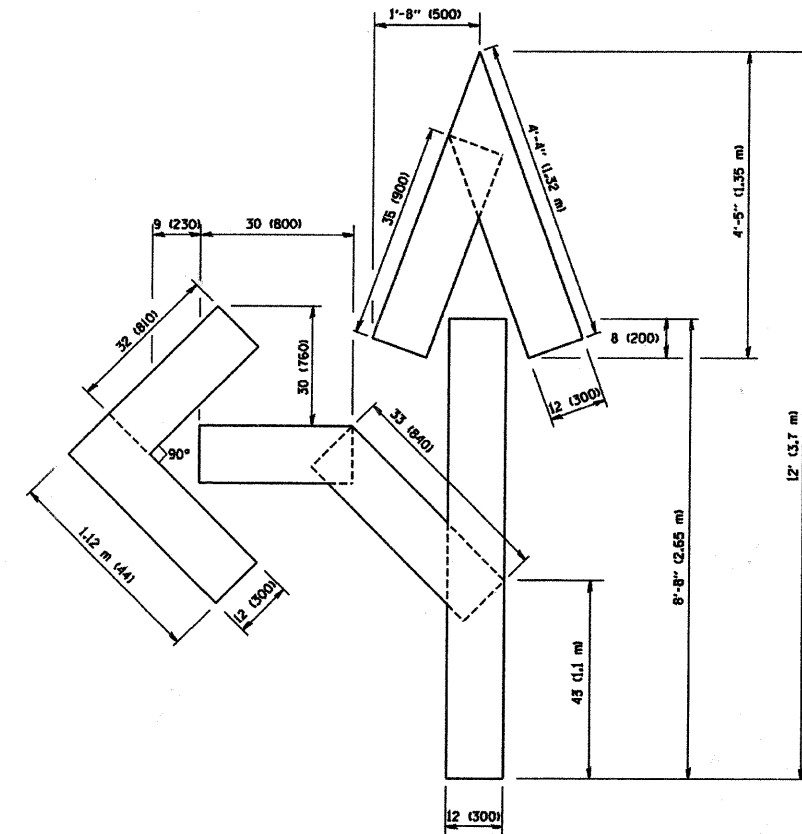
PROJECT NO. 03049	SCALE NONE
DRAWN/DESIGNED JEP/AMS	DATE APRIL, 2009
CHECKED/APPROVED JFP/JEF	FIELD BOOK NO. FILE

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	06-00080-00-BT	COOK	16	10
F.H.W.A. REG.	ILLINOIS	PROJECT	HPP-3463(004)	

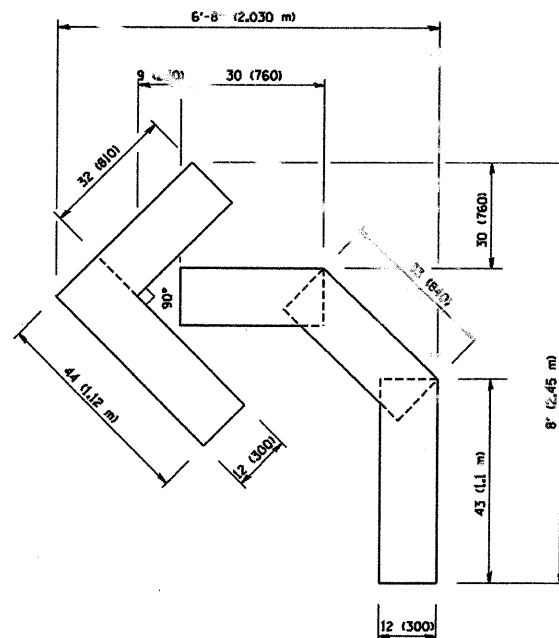
CONTRACT NO. 63220



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



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



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

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

REVISION	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION
T. RAMMA	09/18/94	PAYMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
J. OBERLE	06/01/96	
T. RAMMA	06/05/96	
T. RAMMA	11/04/97	
T. RAMMA	03/02/98	
E. GOMEZ	08/28/00	
SCALE: NONE	DRAWN BY CADD	CHECKED BY TC-16

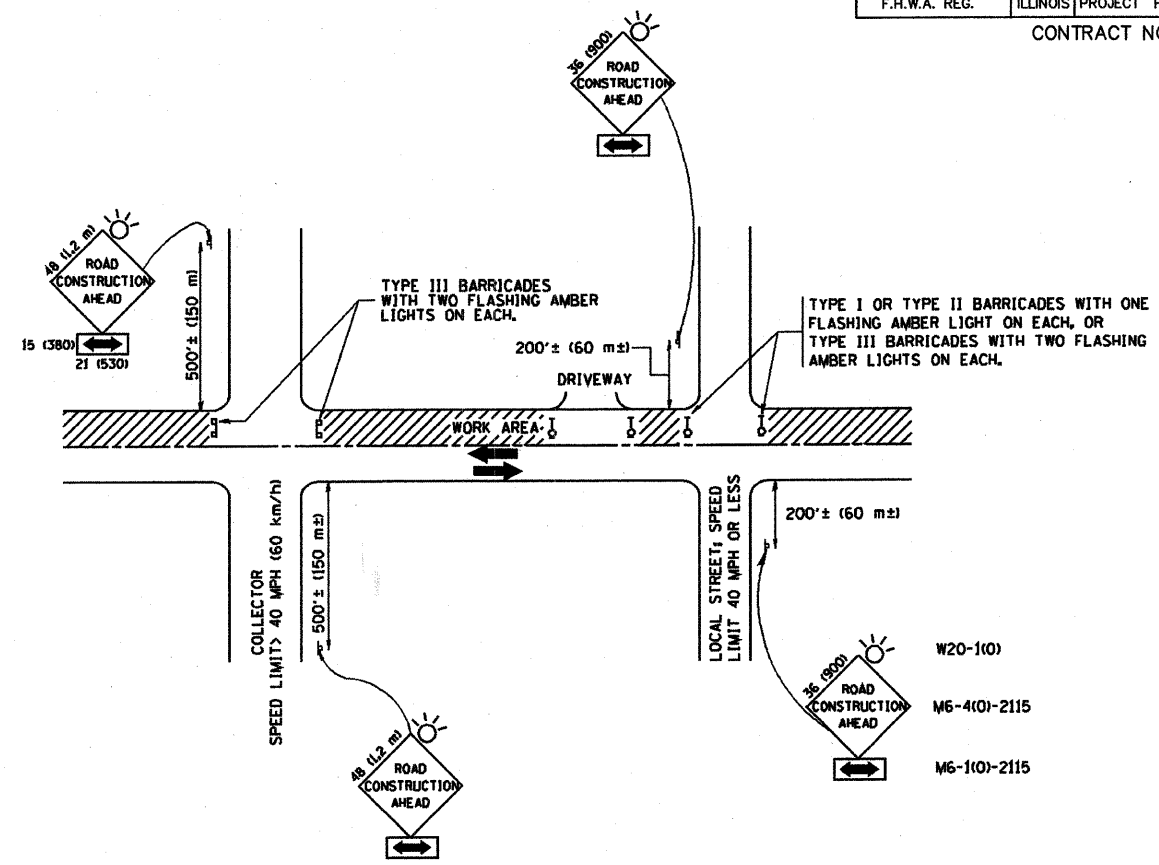
PLOT DATE: 3/7/2007
FILE NAME: M:\Projects\101101\101101.dwg
PLOT SCALE: 1/8"=1'-0"
USER NAME: jrb

REVISIONS			
NO.	BY	DATE	DESCRIPTION

PROJECT NO. 03049	SCALE NONE	SHEETS 10 OF 16 SHEETS
DRAWN/DESIGNED JEP/AMS	DATE APRIL, 2009	
CHECKED/APPROVED JFP/JEF	FIELD BOOK NO. FILE	

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	06-00080-00-BT	COOK	16	11
F.H.W.A. REG.	ILLINOIS	PROJECT	HPP-3463(004)	

CONTRACT NO. 63220



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 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:**
USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.**
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.**

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

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: NONE
DRAWN BY
CHECKED BY
TC-10

PLOT DATE: 2/6/2007
FILE NAME: M:\Projects\06-00080-00-BT\Drawings\TC-10.dwg
USER: JEP
USER DATE: 2/6/2007

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Civil Engineers/Municipal Consultants
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Illinois Professional Design Firm No. 184-000928

PROJECT VILLAGE OF NORTH RIVERSIDE, ILLINOIS
VILLAGE WIDE BIKE PATH - STAGE 1
26TH STREET RESURFACING (1ST AVENUE TO DES PLAINES AVENUE)
& VILLAGE COMMONS COMPLEX PARKING REHABILITATION
M.F.T. SECTION NO. 06-00080-00-BT

REVISIONS			
NO.	BY	DATE	DESCRIPTION

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

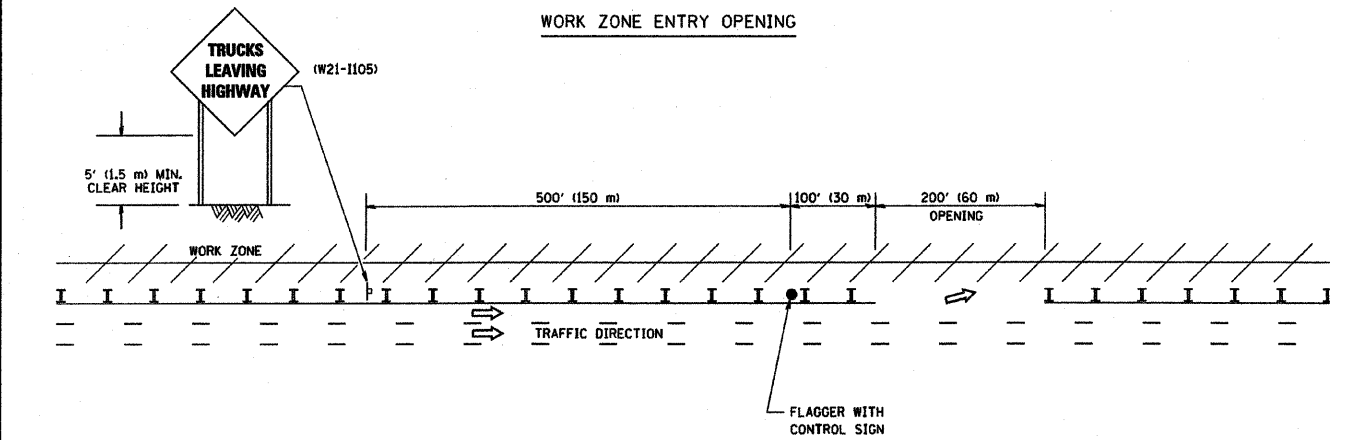
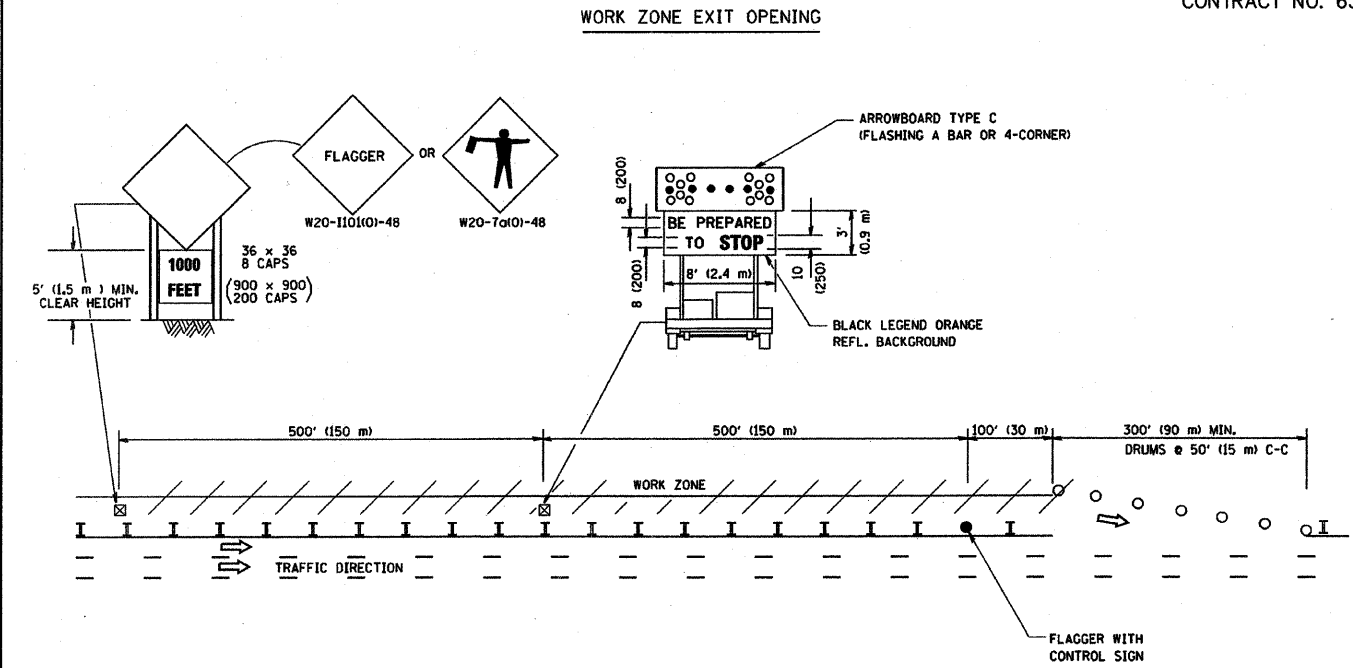
PROJECT NO. 03049	SCALE NONE
DRAWN/DESIGNED JEP/AMS	DATE APRIL, 2009
CHECKED/APPROVED JFP/JEF	FIELD BOOK NO. FILE

SHEET 11 OF 16 SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	06-00080-00-BT	COOK	16	12
F.H.W.A. REG.	ILLINOIS	PROJECT	HPP-3463(004)	

CONTRACT NO. 63220

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS



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 INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NO.	DATE
DWS	8/98
JAF	4/03
JAF	2/06
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
SCALE: NONE
DRAWN BY CADD
CHECKED BY TC-18

PLOT DATE: 3/7/2007
FILE NAME: K:\mst\06080\06080.dwg
USER: MJC

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Illinois Professional Design Firm No. 184-000928

PROJECT VILLAGE OF NORTH RIVERSIDE, ILLINOIS
VILLAGE WIDE BIKE PATH - STAGE 1
26TH STREET RESURFACING (1ST AVENUE TO DES PLAINES AVENUE)
& VILLAGE COMMONS COMPLEX PARKING REHABILITATION
M.F.T. SECTION NO. 06-00080-00-BT

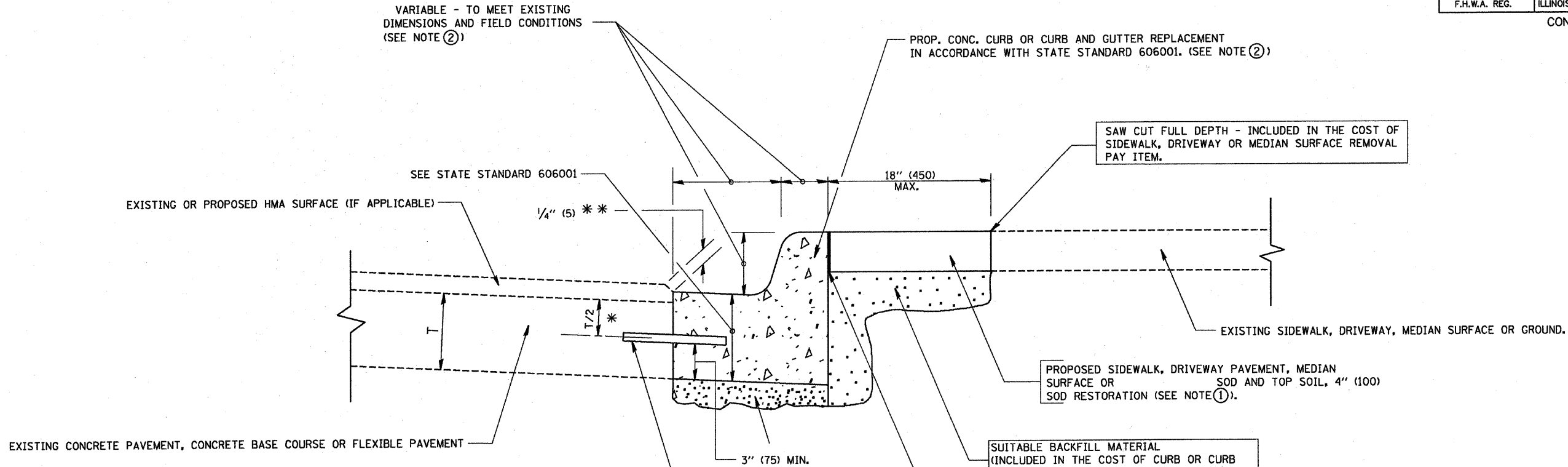
REVISIONS			
NO.	BY	DATE	DESCRIPTION

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

PROJECT NO. 03049	SCALE NONE	SHEET 12 OF 16 SHEETS
DRAWN/DESIGNED JEP/AMS	DATE APRIL, 2009	
CHECKED/APPROVED JFP/JEF	FIELD BOOK NO. FILE	

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	06-00080-00-BT	COOK	16	13
F.H.W.A. REG.	ILLINOIS	PROJECT	HPP-3463(004)	

CONTRACT NO. 63220



- * 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.

BASIS OF PAYMENT:
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT

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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

REVISIONS	
NO.	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)

PLOT DATE: 3/6/2007
 FILE NAME: 03049-01-13.dwg
 USER: JEP
 PLOTTER: HP DesignJet 500

REVISIONS			
NO.	BY	DATE	DESCRIPTION

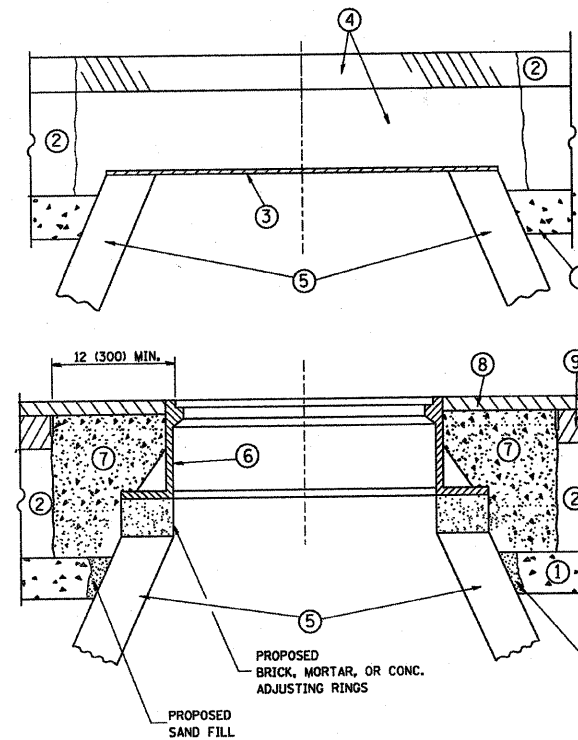
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

PROJECT NO. 03049	SCALE NONE
DRAWN/DESIGNED JEP/AMS	DATE APRIL, 2009
CHECKED/APPROVED JFP/JEF	FIELD BOOK NO. FILE

SHEET
13
OF
16
SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	06-00080-00-BT	COOK	16	14
F.H.W.A. REG.	ILLINOIS	PROJECT	HPP-3463(004)	

CONTRACT NO. 63220



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 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

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

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

LEGEND

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

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.

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 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. NONE	DRAWN BY CHECKED BY
BD600-03 (BD-8)	

PLOT DATE: 3/15/2007
FILE NAME: K:\Users\jrb\My Documents\11111111.dwg
USER NAME: jrb
PLOTTER: HP DesignJet 5000 Series

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Illinois Professional Design Firm No. 184-000928

PROJECT: VILLAGE OF NORTH RIVERSIDE, ILLINOIS
VILLAGE WIDE BIKE PATH - STAGE 1
26TH STREET RESURFACING (1ST AVENUE TO DES PLAINES AVENUE)
& VILLAGE COMMONS COMPLEX PARKING REHABILITATION
M.F.T. SECTION NO. 06-00080-00-BT

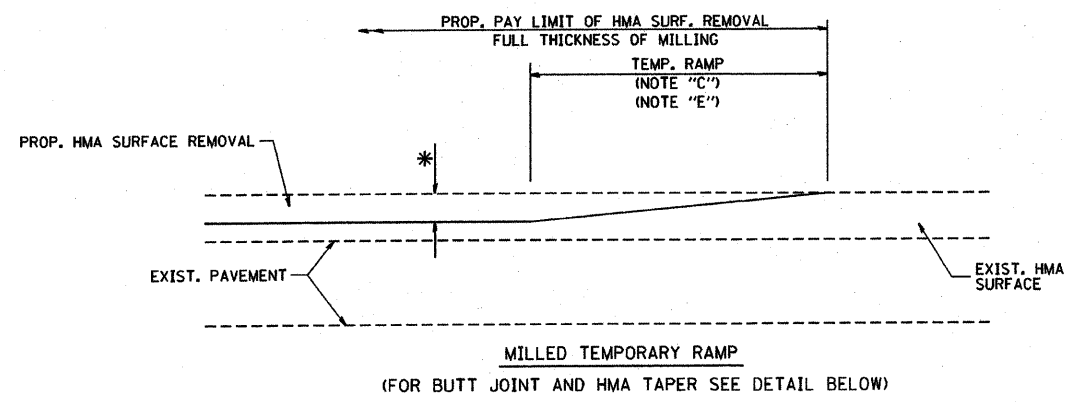
REVISIONS			
NO.	BY	DATE	DESCRIPTION

FRAMES AND LIDS ADJUSTMENT WITH MILLING

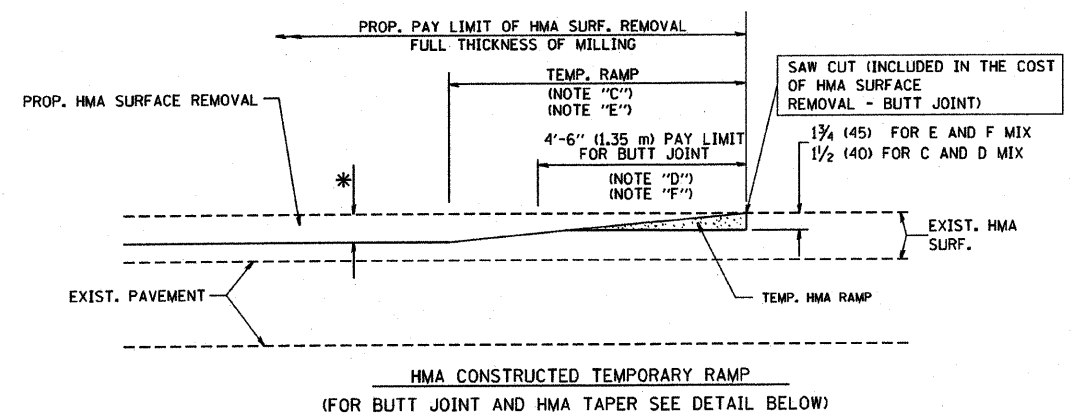
PROJECT NO. 03049	SCALE NONE	SHEET 14
DRAWN/DESIGNED JFP/AMS	DATE APRIL, 2009	OF 16
CHECKED/APPROVED JFP/JEF	FIELD BOOK NO. FILE	SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	06-00080-00-BT	COOK	16	15
F.H.W.A. REG.	ILLINOIS	PROJECT	HPP-3463(004)	

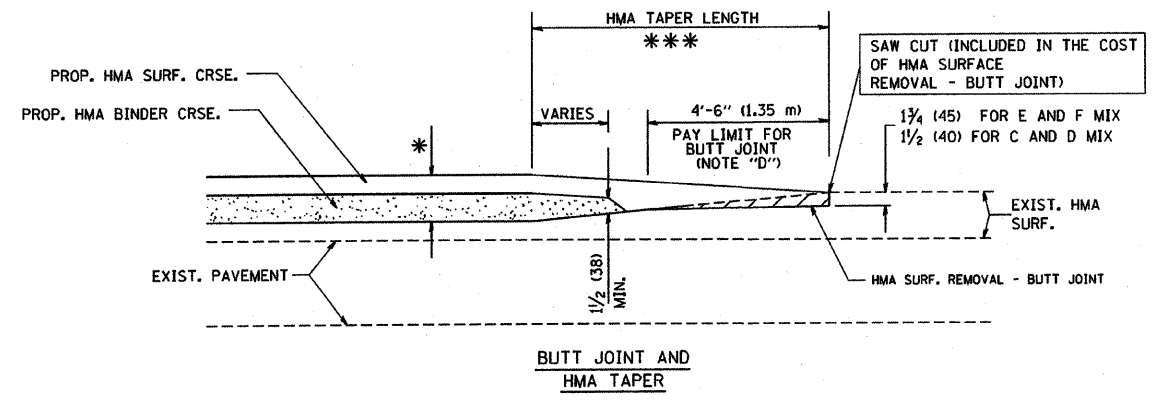
CONTRACT NO. 63220



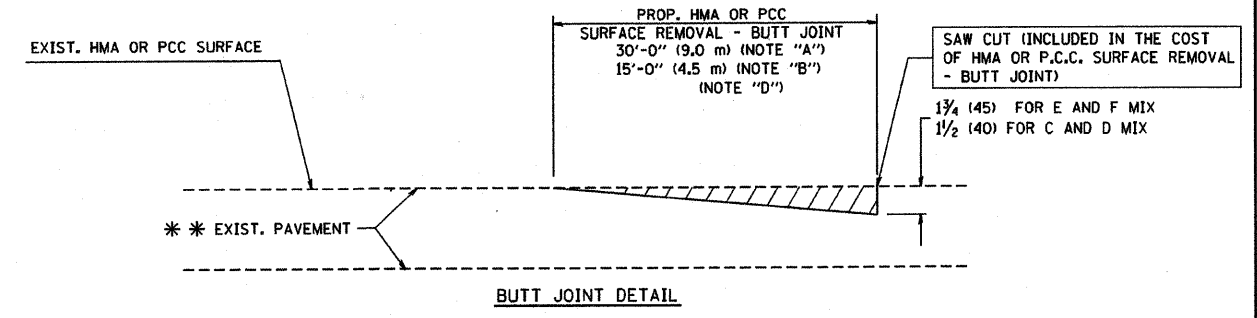
OPTION 1



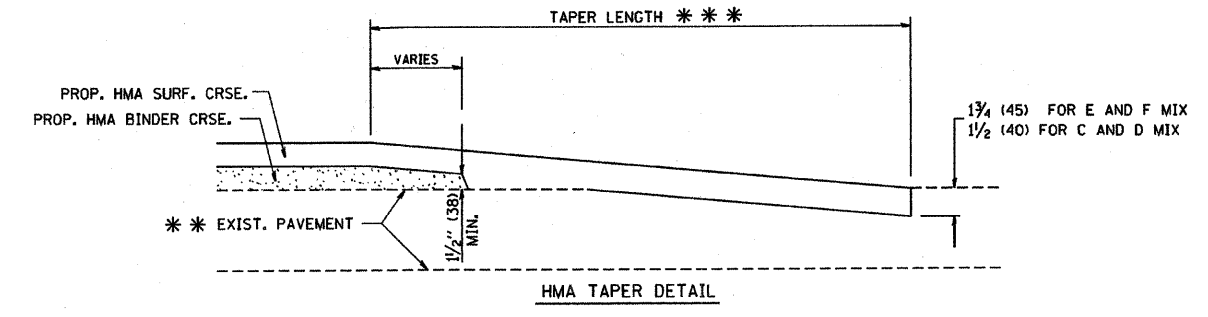
OPTION 2
TYPICAL TEMPORARY RAMP



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.

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".

REVISIONS	
NO.	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. COMEZ	04/06/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

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

PLOT DATE: 3/5/2007
FILE NAME: K:\asv\bd32.dgn
PLOT SCALE: 1/8" = 1'-0"
USER NAME: bboard

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Illinois Professional Design Firm No. 184-000928

PROJECT: **VILLAGE OF NORTH RIVERSIDE, ILLINOIS**
VILLAGE WIDE BIKE PATH - STAGE 1
26TH STREET RESURFACING (1ST AVENUE TO DES PLAINES AVENUE)
& VILLAGE COMMONS COMPLEX PARKING REHABILITATION
M.F.T. SECTION NO. 06-00080-00-BT

REVISIONS			
NO.	BY	DATE	DESCRIPTION

BUTT JOINT AND HMA TAPER DETAILS

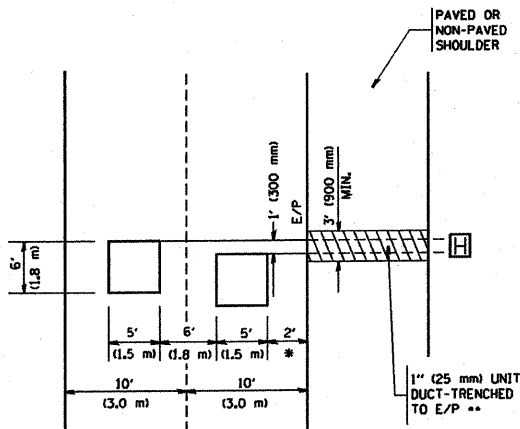
PROJECT NO. 03049	SCALE NONE	SHEET 15
DRAWN/DESIGNED JEP/AMS	DATE APRIL, 2009	OF 16
CHECKED/APPROVED JFP/JEF	FIELD BOOK NO. FILE	SHEETS

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	06-00080-00-BT	COOK	16	16
F.H.W.A. REG.	ILLINOIS	PROJECT	HPP-3463(004)	

CONTRACT NO. 63220

LOOPS NEXT TO SHOULDERS

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



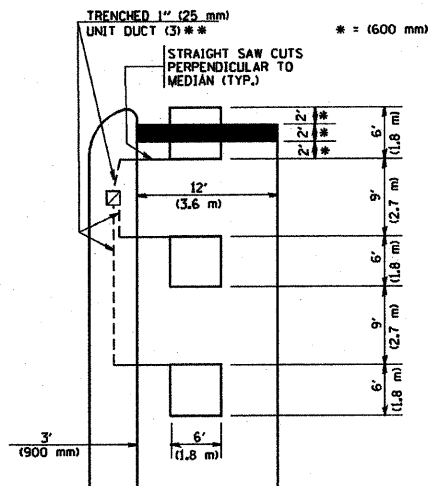
* = (600 mm)

** 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.

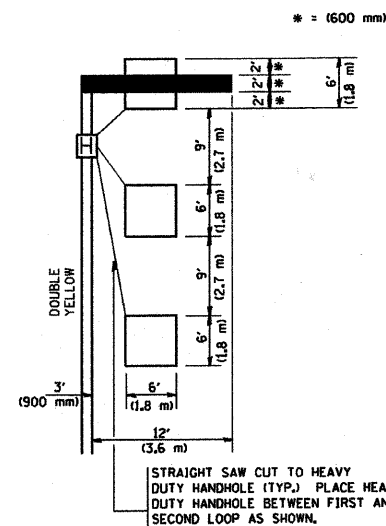


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

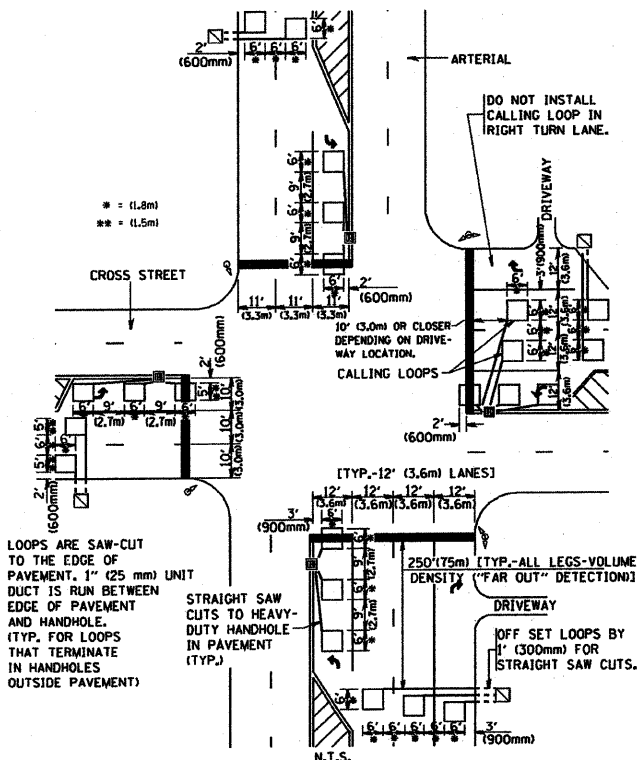
**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH**

(PROTECTED / PERMITTED LEFT TURN PHASING)



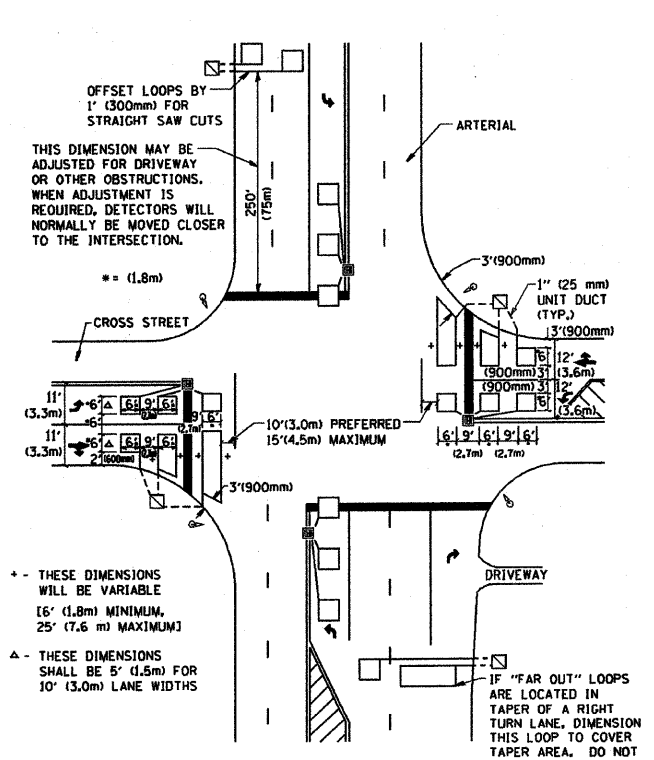
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**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 SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

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

LOCATIONS AND DIMENSIONS 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

DESIGNED BY
DRAWN BY CADD
CHECKED BY R.J.F.
TS07

SCALE: NONE

PLOT DATE * 3/7/2007
FILE NAME * I:\dist1\03049\1\03049.dwg
USER NAME * bward
PLOTTER * HPGL

Frank Novotny & Associates, Inc.
Civil Engineers/Municipal Consultants
825 Midway Drive ♦ Willowbrook, IL ♦ 60527 ♦ Telephone: (630) 887-8640 ♦ Fax: (630) 887-0132
Illinois Professional Design Firm No. 184-000928

PROJECT **VILLAGE OF NORTH RIVERSIDE, ILLINOIS**
VILLAGE WIDE BIKE PATH - STAGE 1
26TH STREET RESURFACING (1ST AVENUE TO DES PLAINES AVENUE)
& VILLAGE COMMONS COMPLEX PARKING REHABILITATION
M.F.T. SECTION NO. 06-00080-00-BT

REVISIONS			
NO.	BY	DATE	DESCRIPTION

DISTRICT 1
DETECTOR LOOP
INSTALLATION DETAILS FOR
ROADWAY RESURFACING

PROJECT NO. 03049	SCALE NONE
DRAWN/DESIGNED JEP/AMS	DATE APRIL, 2009
CHECKED/APPROVED JFP/JEF	FIELD BOOK NO. FILE

SHEET
16
OF
16
SHEETS