

| | | | | |
|---------------|----------------|---------|--------------|-----------|
| FAU RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAU 3587 | 08-00044-00-RS | COOK | 18 | 1 |
| F.H.W.A. REG. | ILLINOIS | PROJECT | M-9003(211) | |

CONTRACT NO. 63452

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
 FAU 3587 (MAIN STREET)
 STATE ST. (FAU 2612) TO ILLINOIS ST.
 LAPP RESURFACING
 PROJECT M-9003(211)
 SECTION 08-00044-00-RS
 VILLAGE OF LEMONT
 COOK COUNTY
 C-91-278-09

- INDEX OF SHEETS**
- 1.) COVER SHEET, INDEX OF SHEETS, LOCATION MAP, INDEX OF HIGHWAY STANDARDS
 - 2.) GENERAL NOTES, SUMMARY OF QUANTITIES
 - 3.) TYPICAL CROSS SECTIONS, HOT-MIX ASPHALT MIXTURE REQUIREMENTS, JOINT DETAIL
 - 4.) PLAN: MAIN STREET (RESURFACING) - STA. 3+00 (STATE STREET) TO STA. 20+00
 - 5.) PLAN: MAIN STREET (RESURFACING) - STA. 20+00 TO STA. 32+66 (ILLINOIS STREET)
 - 6.) PLAN: MAIN STREET (PAVEMENT MARKINGS) - STA. 3+00 (STATE STREET) TO STA. 20+00
 - 7.) PLAN: MAIN STREET (PAVEMENT MARKINGS) - STA. 20+00 TO STA. 32+66 (ILLINOIS STREET)
 - 8.) BD-08 DETAILS FOR FRAMES AND LIDS ADJUSTMENTS WITH MILLING
 - 9.) BD-24 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
 - 10.) BD-32 BUTT JOINT AND HMA TAPER DETAILS
 - 11.) TC-10 TRAFFIC CONTROL & PROTECTION FOR SIDE ROADS, INTERSECTIONS, & DRIVEWAYS
 - 12.) TC-11 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
 - 13.) TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
 - 14.) TC-14 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
 - 15.) TC-16 PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
 - 16.) TC-18 SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
 - 17.) TC-22 ARTERIAL ROAD INFORMATION SIGN
 - 18.) TS-07 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

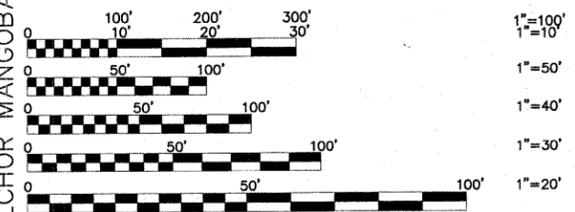
- HIGHWAY STANDARDS**
- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
 - 424001-05 CURB RAMPS FOR SIDEWALK
 - 442201-03 CLASS C AND D PATCHES
 - 606001-04 CONCRETE CURB AND COMBINATION CONCRETE CURB & GUTTER
 - 701301-03 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
 - 701501-05 URBAN LANE CLOSURE, 2 L, 2 W UNDIVIDED
 - 701801-04 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
 - 701901-01 TRAFFIC CONTROL DEVICES
 - 780001-02 TYPICAL PAVEMENT MARKINGS

TRAFFIC DATA
 ADT: MAIN STREET 4,900 (2009)

DESIGN DESIGNATION: MINOR ARTERIAL

POSTED SPEED
 20 MPH & 30 MPH (EXISTING)
 20 MPH & 30 MPH (PROPOSED)

DESIGN SPEED
 20 MPH & 30 MPH (EXISTING)
 20 MPH & 30 MPH (PROPOSED)



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

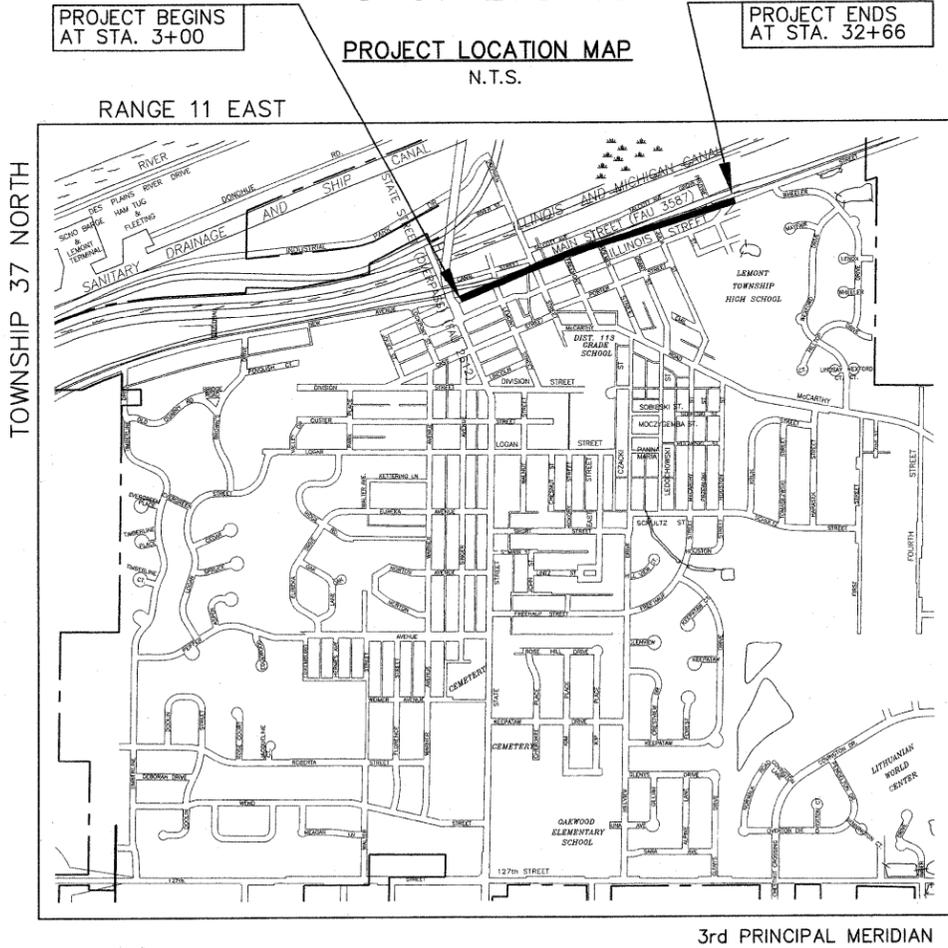
J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 CALL 811

Know what's below.
 Call before you dig.

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

| R E V I S I O N S | | | |
|-------------------|-----|---------|---------------------|
| NO. | BY | DATE | DESCRIPTION |
| 1 | THK | 3-12-10 | PER I.D.O.T. REVIEW |
| 2 | THK | 4-05-10 | PER I.D.O.T. REVIEW |

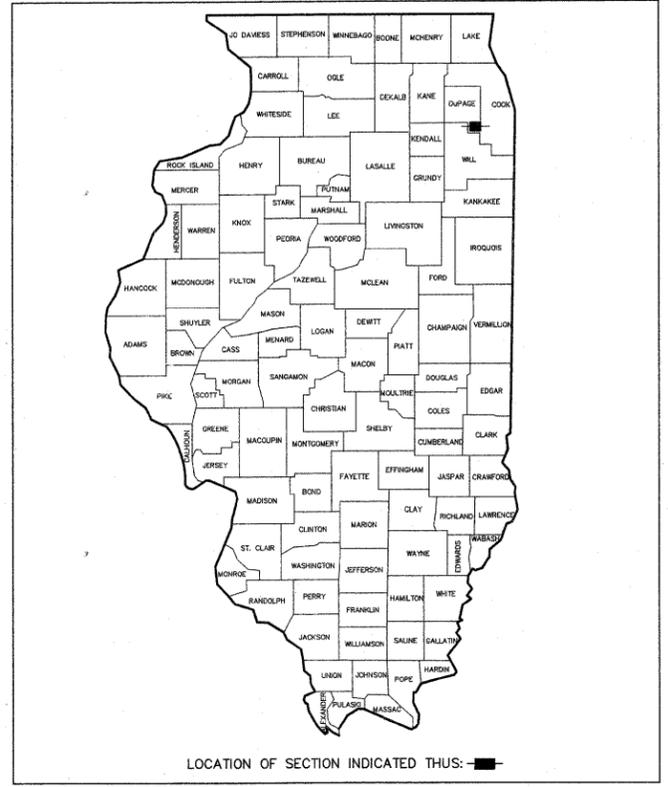
CONTRACT NO. 63452



————— DENOTES LOCATION OF IMPROVEMENT
 IN LEMONT TOWNSHIP

LENGTH OF PROJECT

GROSS LENGTH OF PROJECT 2,966 (0.5617 MILES)
 NET LENGTH OF PROJECT 2,966 (0.5617 MILES)



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

APPROVED April 5, 2010

VILLAGE OF LEMONT Brian K. Reeves
 BRIAN K. REAVES, VILLAGE MAYOR

PASSED April 9, 2010

RELEASING FOR BID BASED ON LIMITED REVIEW April 9, 2010

DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

James L. Cainkar
 JAMES L. CAINKAR, P.E.
 IL. P.E. NO. 62-36190
 EXPIRES 11-30-2011

04/06/2010
DATE

SEAL

**PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS**

FIELD ENGINEER: MELCHOR MANGOBA (847)705-4408

GENERAL CONSTRUCTION NOTES

PAVING

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 UTILITY 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 OR 811, 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 INCLUDED IN THE COST OF 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 SAWS 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 INCLUDED IN THE COST OF 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.

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.

SPECIAL PROJECT NOTES

DRIVEWAY REPAIR BETWEEN THE CURB AND THE PROPERTY LINE SHALL BE COMPLETED PER THE VILLAGE ORDINANCE. THE INSTALLATION IS DETAILED IN THESE PLANS AND IN THE SPECIAL PROVISIONS.

ALL PATCHING WILL BE MARKED OUT AND CONSTRUCTED AFTER MILLING. A PROOF ROLL WILL BE REQUIRED.

IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH THE ILLINOIS CENTRAL RAILROAD WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE ILLINOIS CENTRAL RAILROAD TO MONITOR ON-COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05.

SUMMARY OF QUANTITIES

| Specialty | Special | Coded | Description | Unit | Quantity |
|-----------|-----------|----------|---|--------|----------|
| Item | Provision | No | | | 1000 |
| | | 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 1.0 |
| | | 25000500 | PHOSPHORUS FERTILIZER NUTRIENT | POUND | 1.0 |
| | | 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 1.0 |
| | | 25200100 | SODDING | SQ YD | 50.0 |
| | | 40800200 | BITUMINOUS MATERIALS (PRIME COAT) | TON | 2.5 |
| | | 40800300 | AGGREGATE (PRIME COAT) | TON | 12.0 |
| | | 40800826 | POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 | TON | 491.0 |
| | | 40800895 | CONSTRUCTING TEST STRIP | EACH | 1.0 |
| | | 40800982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SQ YD | 102.0 |
| | | 40803310 | HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 | TON | 1,148.0 |
| | | 42400200 | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH | SQ FT | 160.0 |
| | SP | 42400800 | DETECTABLE WARNINGS | SQ FT | 298.0 |
| | | 44000159 | HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" | SQ YD | 11,587.0 |
| | | 44000600 | SIDEWALK REMOVAL | SQ FT | 160.0 |
| | | 44001700 | COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT | FOOT | 62.0 |
| | SP | 44201789 | CLASS D PATCHES, TYPE II, 12 INCH | SQ YD | 19.0 |
| | SP | 44201794 | CLASS D PATCHES, TYPE III, 12 INCH | SQ YD | 18.0 |
| | SP | 44201796 | CLASS D PATCHES, TYPE IV, 12 INCH | SQ YD | 25.0 |
| | | 60250200 | CATCH BASINS TO BE ADJUSTED | EACH | 2.0 |
| | | 60266600 | VALVE BOXES TO BE ADJUSTED | EACH | 1.0 |
| | SP | 60266610 | VALVE BOXES TO BE ADJUSTED (SPECIAL) | EACH | 2.0 |
| | SP | 60300310 | FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) | EACH | 39.0 |
| | | 67100100 | MOBILIZATION | L.SUM | 1.0 |
| | | 70102620 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701501 | L.SUM | 1.0 |
| | | 70102640 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701801 | L.SUM | 1.0 |
| | | 70106800 | CHANGEABLE MESSAGE SIGN | CAL MO | 2.0 |
| | | 70300100 | SHORT-TERM PAVEMENT MARKING | FOOT | 2,193.0 |
| | | 70301000 | WORK ZONE PAVEMENT MARKING REMOVAL | SQ FT | 244.0 |
| * | | 78000100 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | SQ FT | 87.0 |
| * | | 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" | FOOT | 3,623.0 |
| * | | 78000400 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" | FOOT | 768.0 |
| * | | 78000600 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" | FOOT | 333.0 |
| * | | 78000650 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" | FOOT | 262.0 |
| * | | 78001100 | PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS | SQ FT | 87.0 |
| * | | 78001110 | PAINT PAVEMENT MARKING - LINE 4" | FOOT | 58.0 |
| * | | 78001150 | PAINT PAVEMENT MARKING - LINE 12" | FOOT | 16.0 |
| * | | 78100100 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 160.0 |
| * | SP | 81400115 | HANDHOLE TO BE ADJUSTED | EACH | 1.0 |
| * | SP | 88600600 | DETECTOR LOOP REPLACEMENT | FOOT | 280.0 |
| * | SP | XX001621 | BRICK PAVER REMOVAL | SQ FT | 250.0 |
| | SP | XX003313 | REMOVE AND REINSTALL BRICK PAVER | SQ FT | 637.0 |
| | | Z0048665 | RAILROAD PROTECTIVE LIABILITY INSURANCE | L.SUM | 1.0 |

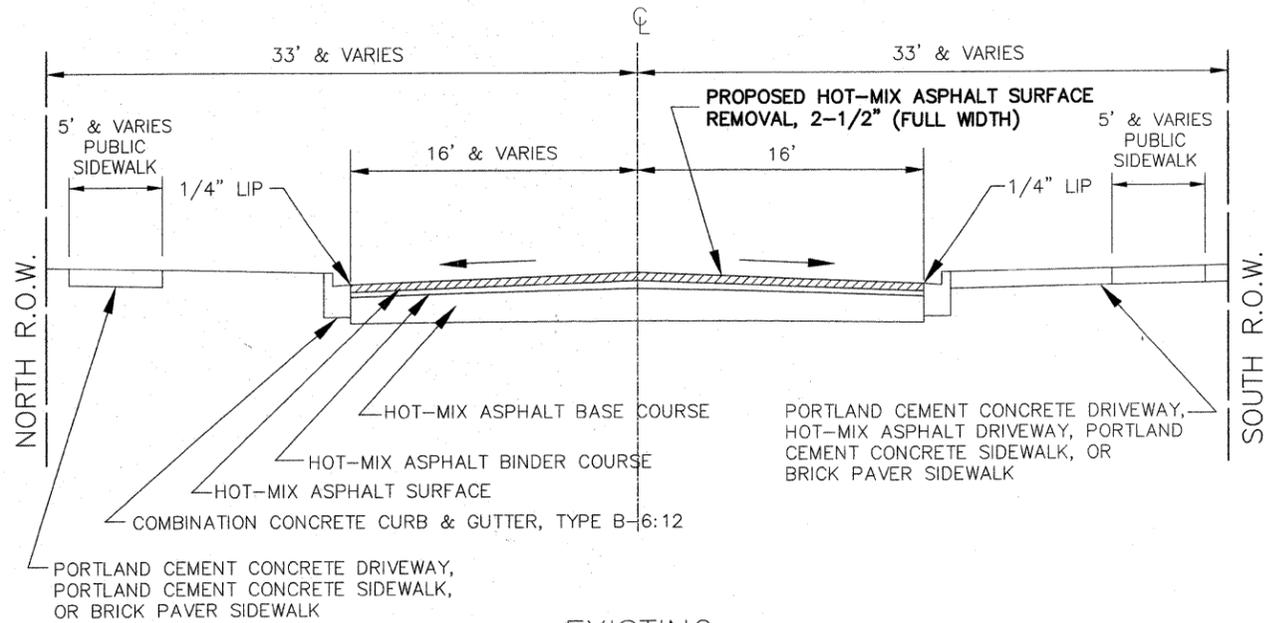
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| FILE NAME = | USER NAME = | DESIGNED -- THK | REVISED -- THK 3-12-10 |
| | | DRAWN -- JFP-JEP | REVISED -- THK 4-05-10 |
| | PLOT SCALE = NONE | CHECKED -- THK | REVISED -- |
| | PLOT DATE = | DATE -- 1-26-10 | REVISED -- |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

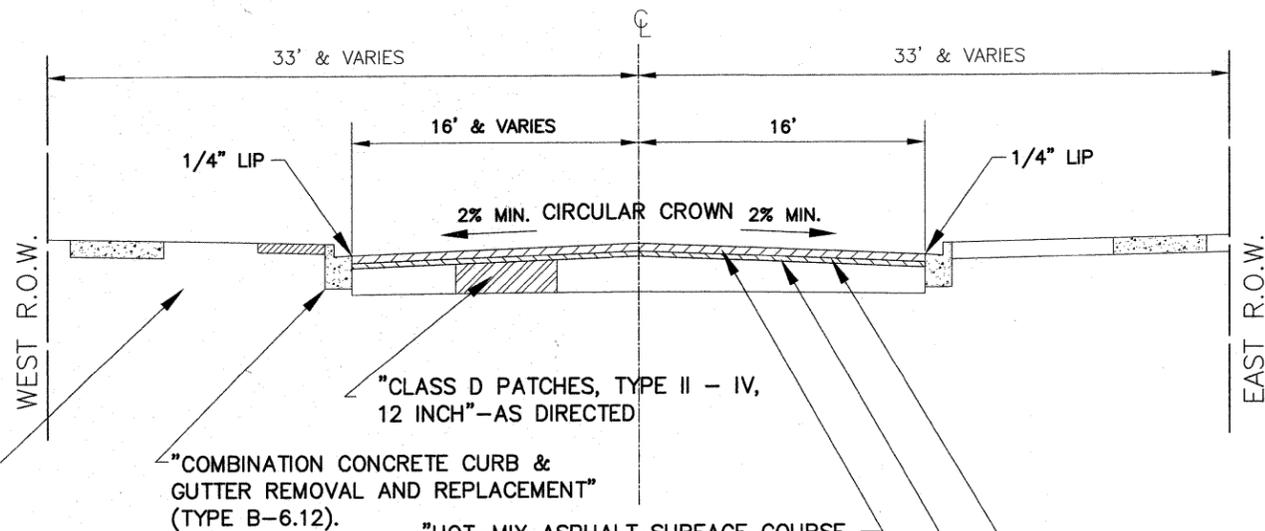
GENERAL NOTES
SUMMARY OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

| | | | | |
|---|----------------|--------|--------------|-----------|
|  Frank Novotny & Associates, Inc. 828 Midway Drive • Willowbrook, IL • 60527 • Telephone: (630) 887-8640 • Fax: (630) 887-0132 ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000288 | | | | |
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 3587 | 08-00044-00-RS | COOK | 18 | 2 |
| CONTRACT NO. 63452 | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-9003(211) | | | | |



EXISTING



PROPOSED

TYPICAL CROSS SECTIONS

SCALE: 1"=5'

NOTE: CONTRACTOR SHALL MILL BEFORE PATCHING.

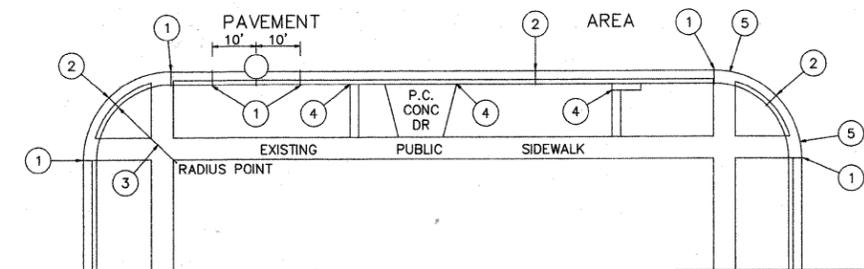
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

| MIXTURE TYPE | PERCENT AIR VOIDS |
|--|-------------------|
| ROADWAY | |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 1-3/4" (IL-9.5mm) | 4% @ 50 GYR |
| POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4" | 4% @ 50 GYR |
| PATCHING | |
| CLASS D PATCHES, TYPE II-IV, 12", (HMA BINDER IL-19.0mm) | 4% @ 70 GYR |

THE UNIT WEIGHT TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

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

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



- 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.

JOINT DETAIL

IMPORTANT!

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

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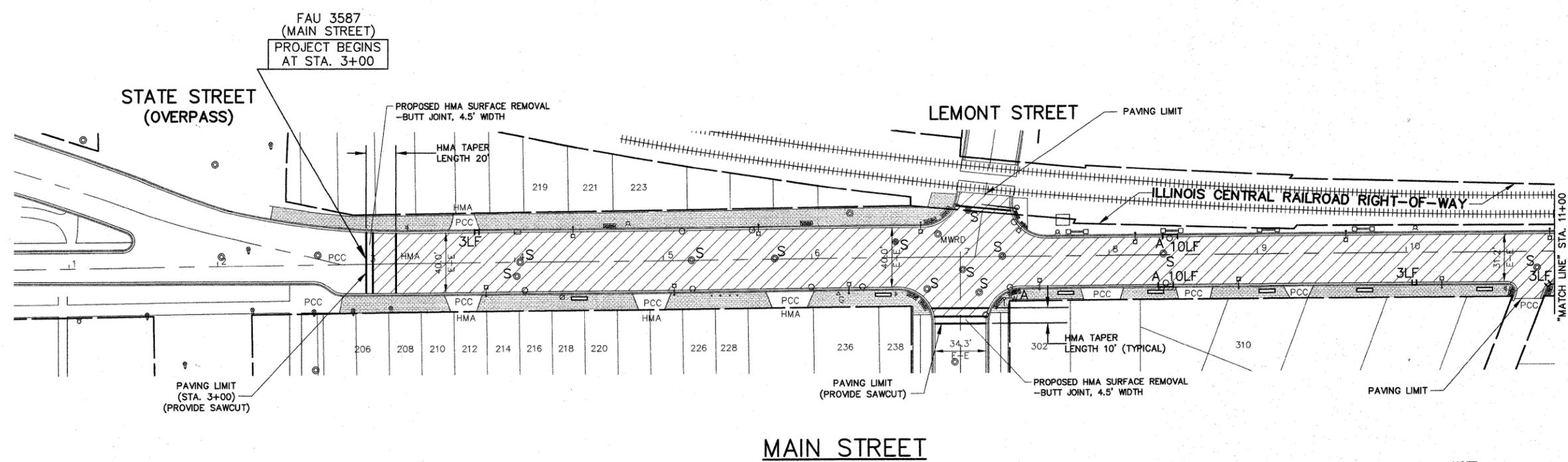
TYPICAL CROSS SECTIONS
 HOT-MIX ASPHALT MIXTURE REQUIREMENTS

GENERAL NOTES, JOINT DETAILS,
 SUMMARY OF QUANTITIES

| | | | |
|-------------|-----------------------|-----------------|-----------------------|
| FILE NAME = | USER NAME = | DESIGNED - THK | REVISED - THK 3-12-10 |
| | | DRAWN - JFP-JEP | REVISED - THK 4-05-10 |
| | PLOT SCALE = AS NOTED | CHECKED - THK | REVISED - |
| | PLOT DATE = | DATE - 1-26-10 | REVISED - |

SCALE: SHEET NO. OF SHEETS STA. TO STA.

| | | | | |
|---|----------------|--------|--------------|-----------|
| F.A. R.T.E. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 3587 | 08-00044-00-RS | COOK | 18 | 3 |
| CONTRACT NO. 63452 | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-9003(211) | | | | |



FOR CONTINUATION
SEE BELOW LEFT

MAIN STREET

FOR CONTINUATION
SEE ABOVE RIGHT

EXISTING TRAFFIC CONTROL DETECTOR LOOPS AT STEPHEN STREET -
TO BE REPLACED AND INSTALLED IN LEVELING BINDER COURSE PRIOR
TO HOT-MIX ASPHALT SURFACE COURSE INSTALLATION.
SEE SHEET 6 FOR LOCATION DETAIL.

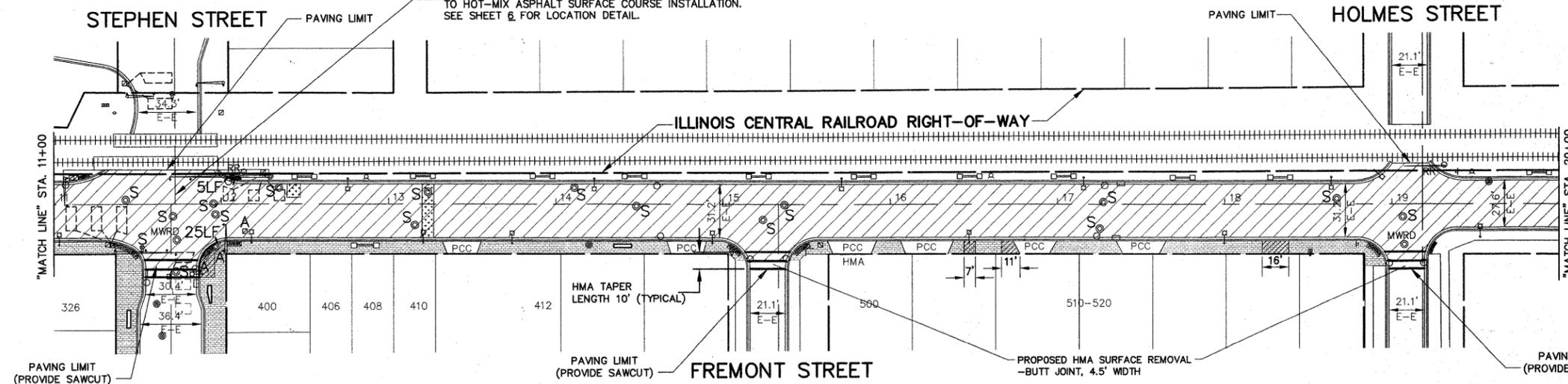
FOR CONTINUATION
SEE SHEET 5

ALL SAW CUTS SHALL BE CONSIDERED
INCLUDED IN THE COST OF THE CONTRACT.

FOR TYPICAL CROSS SECTION
OF NEW PAVEMENT WORK
SEE SHEET 3

LEGEND

- DENOTES HOT-MIX ASPHALT SURFACE REMOVAL, 2-1/2", POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4" AND HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 1-3/4"
- DENOTES CLASS D PATCHES, TYPE II-IV, 12", - AS DIRECTED
- DENOTES P.C. CONCRETE SIDEWALK, 5" REMOVAL & REPLACEMENT, OR REMOVE AND REINSTALL BRICK PAVEMENT
- DENOTES SIDEWALK REMOVAL OR BRICK PAVEMENT REMOVAL AND P.C. CONCRETE SIDEWALK, 5 INCH, WITH DETECTABLE WARNINGS, WHITE PORTLAND CEMENT CONCRETE AT BRICK PAVEMENT LOCATIONS AND RED TINTED PORTLAND CEMENT CONCRETE AT PCC SIDEWALK LOCATIONS
- "A" DENOTES EXISTING VALVE VAULTS, VALVE BOXES, INLETS, CATCH BASINS AND MANHOLES TO BE CLEANED, GROUTED, AND ADJUSTED TO GRADE WITH NEW ADJUSTING RINGS. (ALL TOP BANDS OF FALLEN, COMMON OR CONCRETE BRICK TO BE REPLACED WITH PRECAST CONCRETE ADJUSTING RINGS)
- "S" DENOTES EXISTING FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) (SEE SHEET 8 FOR DETAIL)
- 8 FT DENOTES COMBINATION CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT PROVIDE DETECTABLE WARNINGS AND RAMPS AT ALL SIDEWALK
- DENOTES EXISTING SIDEWALK RAMP TO REMAIN
- EXISTING BRICK PAVERS



MAIN STREET

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

Frank Novotny & Associates, Inc.
Civil Engineers
825 Midway Drive • Wilmette, IL • 60091 • Telephone: (630) 887-8640 • Fax: (630) 887-0183
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000228

| | | | |
|-------------|---------------------|-----------------|-----------------------|
| FILE NAME = | USER NAME = | DESIGNED - THK | REVISED - THK 3-12-10 |
| | | DRAWN - JFP-JEP | REVISED - THK 4-05-10 |
| | PLOT SCALE = 1"=40' | CHECKED - THK | REVISED - |
| | PLOT DATE = | DATE - 1-26-10 | REVISED - |

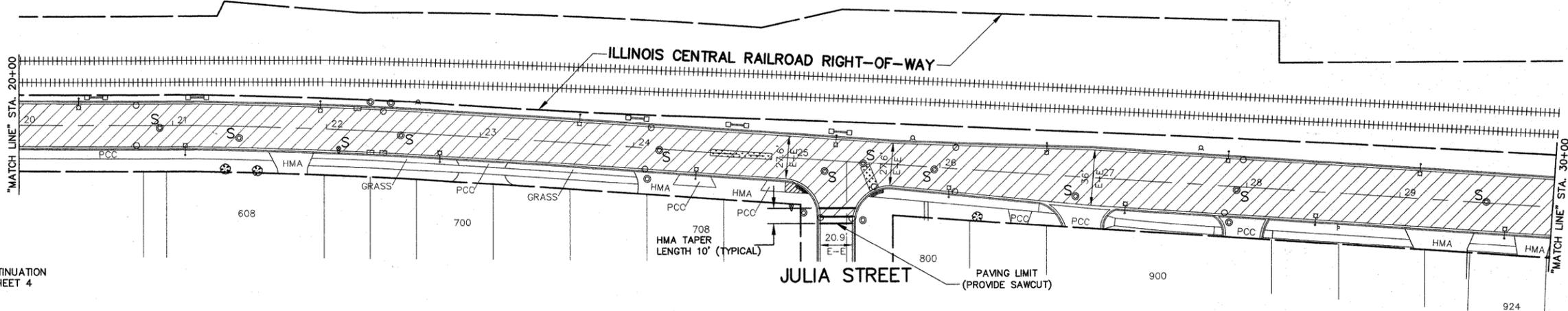
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN: MAIN STREET-
STA. 3+00 (STATE STREET) TO STA. 20+00**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

(RESURFACING)

| F.A. R.T.E. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|----------------|--------|-----------------------------------|-----------|
| 3587 | 08-00044-00-RS | COOK | 18 | 4 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 63452 M-9003(211) | |



FOR CONTINUATION
SEE SHEET 4

FOR CONTINUATION
SEE BELOW LEFT

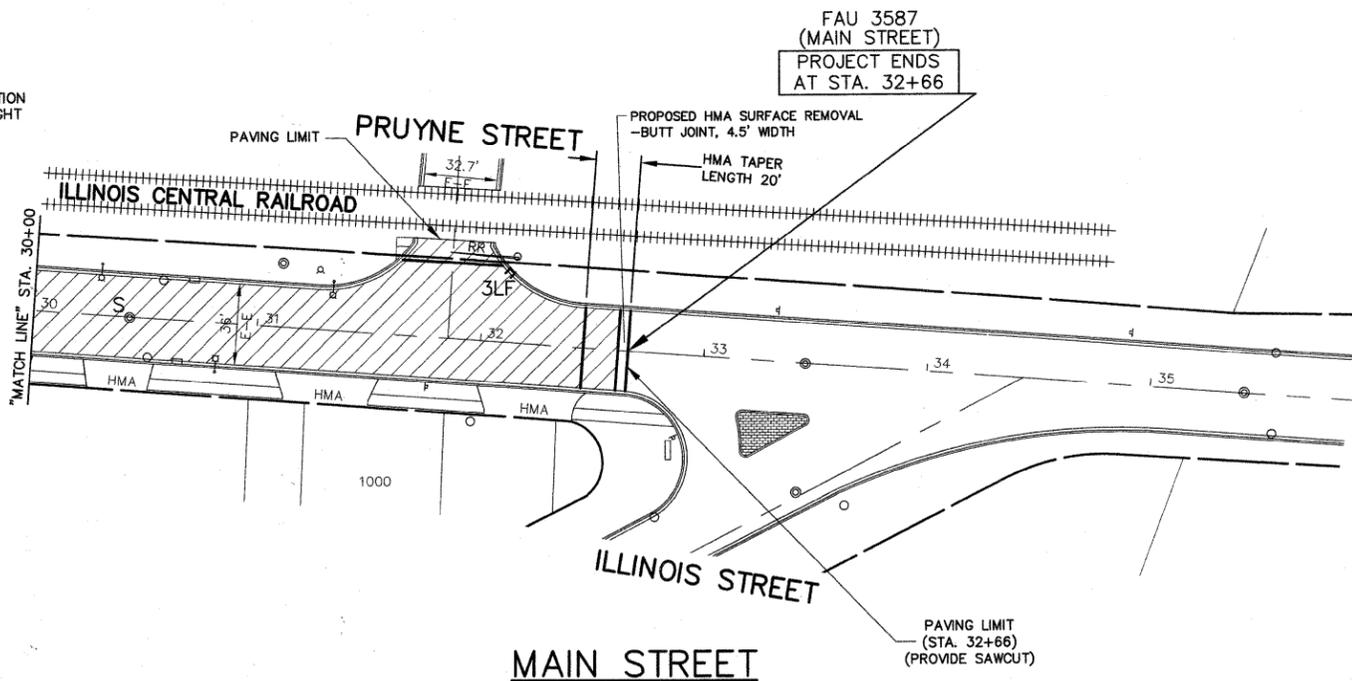
MAIN STREET

NOTE:
NO ADJUSTMENT IS REQUIRED ON THE M.W.R.D.G.C.
MANHOLES LOCATED WITHIN THE PROJECT LIMITS.

ALL SAW CUTS SHALL BE CONSIDERED
INCLUDED IN THE COST OF THE CONTRACT.

FOR TYPICAL CROSS SECTION
OF NEW PAVEMENT WORK
SEE SHEET 3

FOR CONTINUATION
SEE ABOVE RIGHT



LEGEND

- DENOTES HOT-MIX ASPHALT SURFACE REMOVAL, 2-1/2", POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4" AND HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 1-3/4"
- DENOTES CLASS D PATCHES, TYPE II-IV, 12", - AS DIRECTED
- DENOTES P.C. CONCRETE SIDEWALK, 5" REMOVAL & REPLACEMENT, OR REMOVE AND REINSTALL BRICK PAVER
- DENOTES SIDEWALK REMOVAL OR BRICK PAVER REMOVAL, AND P.C. CONCRETE SIDEWALK, 5 INCH, WITH DETECTABLE WARNINGS, WHITE PORTLAND CEMENT CONCRETE AT BRICK PAVER SIDEWALK LOCATIONS AND RED TINTED PORTLAND CEMENT CONCRETE AT PCC SIDEWALK LOCATIONS
- "A"** DENOTES EXISTING VALVE VAULTS, VALVE BOXES, INLETS, CATCH BASINS AND MANHOLES TO BE CLEANED, GROUDED, AND ADJUSTED TO GRADE WITH NEW ADJUSTING RINGS. (ALL TOP BANDS OF FALLEN, COMMON OR CONCRETE BRICK TO BE REPLACED WITH PRECAST CONCRETE ADJUSTING RINGS)
- "S"** DENOTES EXISTING FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) (SEE SHEET 2 FOR DETAIL)
- 8 FT** DENOTES COMBINATION CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT PROVIDE DETECTABLE WARNINGS AND RAMPS AT ALL SIDEWALK
- DENOTES EXISTING SIDEWALK RAMP TO REMAIN
- EXISTING BRICK PAVERS

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

Frank Novotny & Associates, Inc.
Civil Engineers
820 Midway Drive • Willmetts, IL • 60187 • Telephone: (630) 887-8840 • Fax: (630) 887-0132
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000828

| | | | | | | | | | | | |
|-------------|---------------------|-----------------|-----------------------|---|--|---|----------------|--------|--------------|-----------|--|
| FILE NAME = | USER NAME = | DESIGNED - THK | REVISED - THK 3-12-10 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PLAN: MAIN STREET- STA. 20+00 TO STA. 32+66 (ILLINOIS STREET) (RESURFACING) | F.A. - | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| | | DRAWN - JFP-JEP | REVISED - THK 4-05-10 | | | 3587 | 08-00044-00-RS | COOK | 18 | 5 | |
| | PLOT SCALE = 1"=40' | CHECKED - THK | REVISED - | | | CONTRACT NO. 63452 | | | | | |
| | PLOT DATE = | DATE - 1-26-10 | REVISED - | | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT M-9003(211) | | | | | |

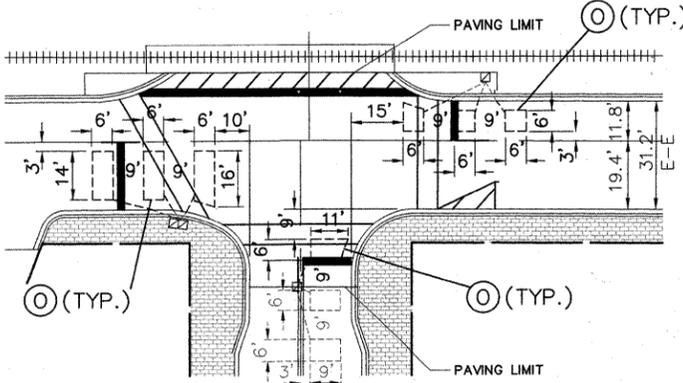
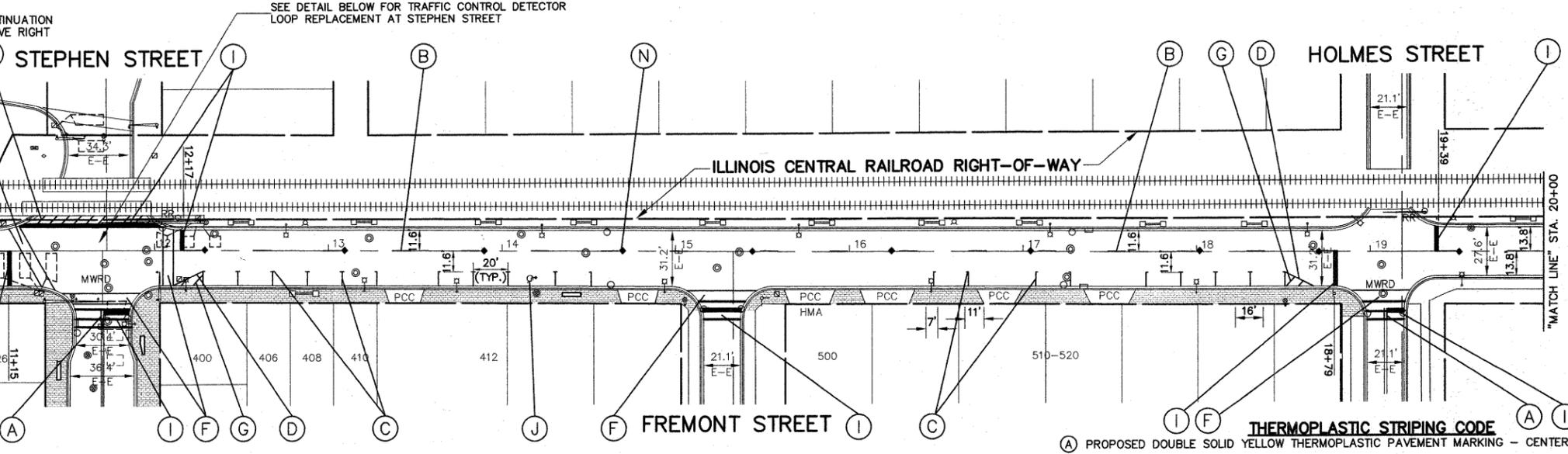
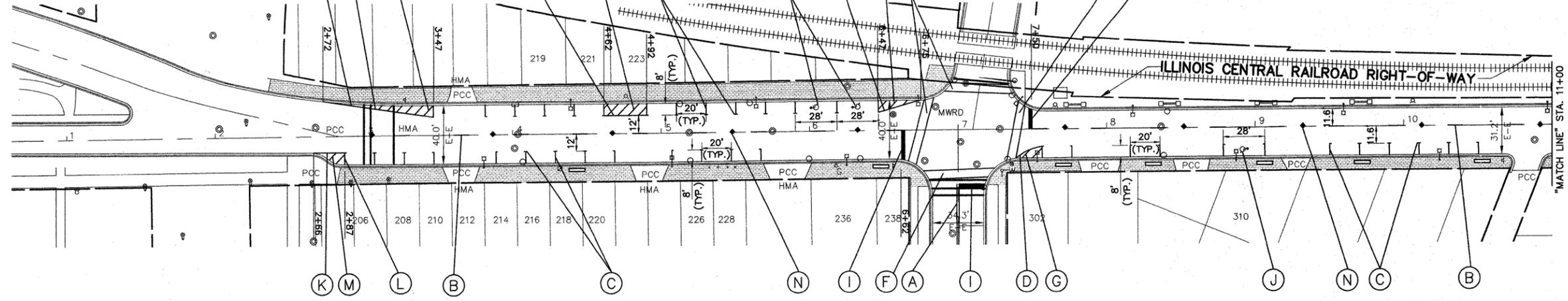
STATE STREET
(OVERPASS)

LEMONT STREET

MAIN STREET

FREMONT STREET

MAIN STREET



DETECTOR LOOP INSTALLATION
AT STEPHEN STREET



FOR CONTINUATION
SEE BELOW LEFT

FOR CONTINUATION
SEE ABOVE RIGHT

SEE DETAIL BELOW FOR TRAFFIC CONTROL
LOOP REPLACEMENT AT STEPHEN STREET

FOR CONTINUATION
SEE SHEET 5

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: A)
IS MEASURED PER LINE. TOTAL QUANTITY AND
PAYMENT LENGTH IS FOR EACH LINEAR FOOT OF
SINGLE 4" STRIPE INSTALLED.

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".

- THERMOPLASTIC STRIPING CODE**
- (A) PROPOSED DOUBLE SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING - CENTER LINE 4", 11" O/C
 - (B) PROPOSED SKIP-DASH YELLOW THERMOPLASTIC PAVEMENT MARKING - LINE 4" - 10' DASH, 30' SKIP (LANE LINE)
 - (C) PROPOSED SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 4" - (PARKING STALL LINE)
 - (D) PROPOSED SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 4" - (EDGE LINE)
 - (E) PROPOSED SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING - LINE 4" (LANE LINE)
 - (F) PROPOSED SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 6" (CROSSWALK LINE)
 - (G) PROPOSED SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 12", 45° DIAGONALS, (NO PARKING LINE)
 - (H) PROPOSED SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING - LINE 12", 45° DIAGONALS, (MEDIAN & CAUTION LINE)
 - (I) PROPOSED SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 24" (STOP BAR & CAUTION LINE)
 - (J) PROPOSED SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS
- PAINTED STRIPING CODE**
- (K) PROPOSED SOLID WHITE PAINTED PAVEMENT MARKING - LINE 4" - (EDGE LINE)
 - (L) PROPOSED SOLID WHITE PAINTED PAVEMENT MARKING - LINE 4" - (PARKING STALL LINE)
 - (M) PROPOSED SOLID YELLOW PAINTED PAVEMENT MARKING - LINE 12", 45° DIAGONALS, (NO PARKING LINE)
- REFLECTIVE PAVEMENT MARKERS**
- (N) PROPOSED RAISED REFLECTIVE PAVEMENT MARKERS - 80' O/C OR AS SHOWN
 - ◆ TWO-WAY AMBER MARKER
 - ▶ ONE-WAY AMBER MARKER
- DETECTOR LOOPS**
- (O) PROPOSED DETECTOR LOOP REPLACEMENT

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

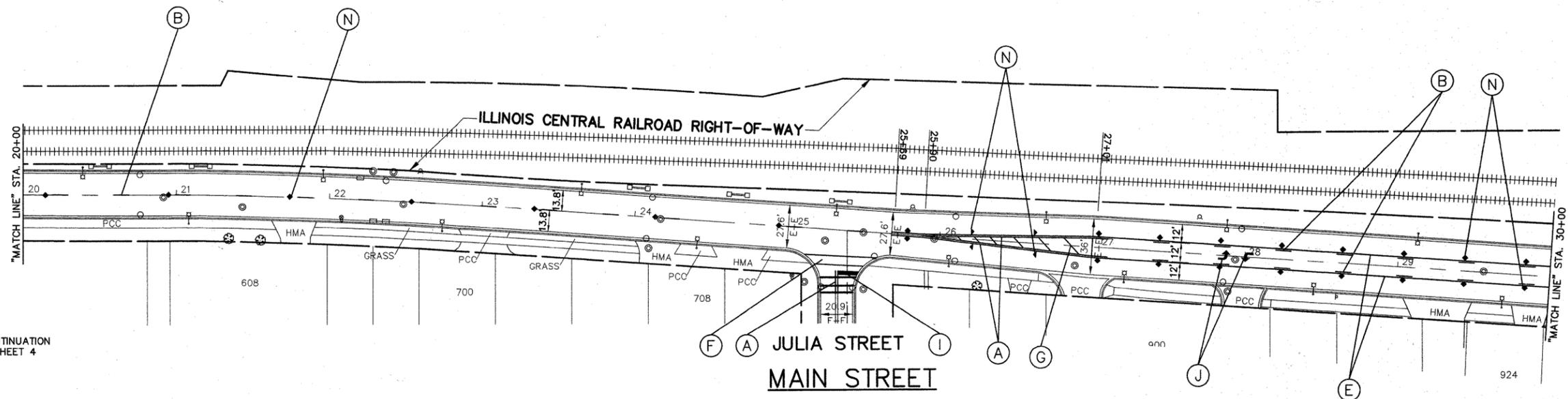
Frank Novotny & Associates, Inc.
Civil Engineer
Municipal Consultant
825 Midway Drive • Wheelock, IL • 61897 • Telephone: (630) 887-8640 • Fax: (630) 887-0132
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000028

| | | | |
|-----------------------|-------------|-----------------|-----------------------|
| FILE NAME = | USER NAME = | DESIGNED - THK | REVISED - THK 3-12-10 |
| | | DRAWN - JFP-JEP | REVISED - THK 4-05-10 |
| PLOT SCALE = 1" = 40' | | CHECKED - THK | REVISED - |
| PLOT DATE = | | DATE - 1-26-10 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN: MAIN STREET-
STA. 3+00 (STATE STREET) TO STA. 20+00
SCALE: SHEET NO. OF SHEETS STA. TO STA.
(PAVEMENT MARKING)

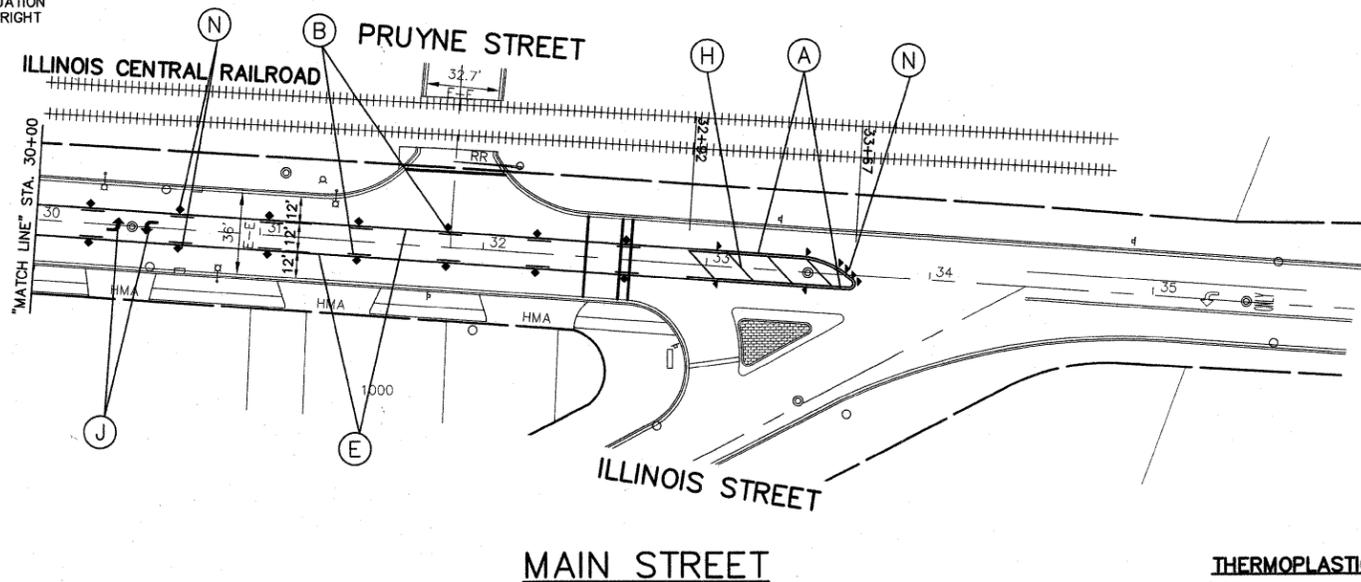
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|---------------------|----------------|--------|---------------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 3587 | 08-00044-00-RS | COOK | 18 | 6 |
| FED. ROAD DIST. NO. | | | ILLINOIS FED. AID PROJECT | |
| | | | M-9003(211) | |
| CONTRACT NO. 63452 | | | | |



FOR CONTINUATION
SEE SHEET 4

FOR CONTINUATION
SEE BELOW LEFT

FOR CONTINUATION
SEE ABOVE RIGHT



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: A)
IS MEASURED PER LINE. TOTAL QUANTITY AND
PAYMENT LENGTH IS FOR EACH LINEAR FOOT OF
SINGLE 4" STRIPE INSTALLED.

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".

THERMOPLASTIC STRIPING CODE

- (A) PROPOSED DOUBLE SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING - CENTER LINE 4", 11" O/C
- (B) PROPOSED SKIP-DASH YELLOW THERMOPLASTIC PAVEMENT MARKING - LINE 4" - 10' DASH, 30' SKIP (LANE LINE)
- (C) PROPOSED SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 4" - (PARKING STALL LINE)
- (D) PROPOSED SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 4" - (EDGE LINE)
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- (H) PROPOSED SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING - LINE 12", 45° DIAGONALS, (MEDIAN & CAUTION LINE)
- (I) PROPOSED SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 24" (STOP BAR)
- (J) PROPOSED SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS

REFLECTIVE PAVEMENT MARKERS

- (N) PROPOSED RAISED REFLECTIVE PAVEMENT MARKERS - 80' O/C OR AS SHOWN
 - ◆ TWO-WAY AMBER MARKER
 - ▶ ONE-WAY AMBER MARKER

IMPORTANT!

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

Frank Novotny & Associates, Inc.
826 Midway Drive • Willmetts, IL • 60157 • Telephone: (815) 887-8640 • Fax: (815) 887-0132
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| FILE NAME = | USER NAME = | DESIGNED - THK | REVISED - THK 3-12-10 |
| | | DRAWN - JFP-JEP | REVISED - THK 4-05-10 |
| PLOT SCALE = 1" = 40' | | CHECKED - THK | REVISED - |
| PLOT DATE = | | DATE - 1-26-10 | REVISED - |

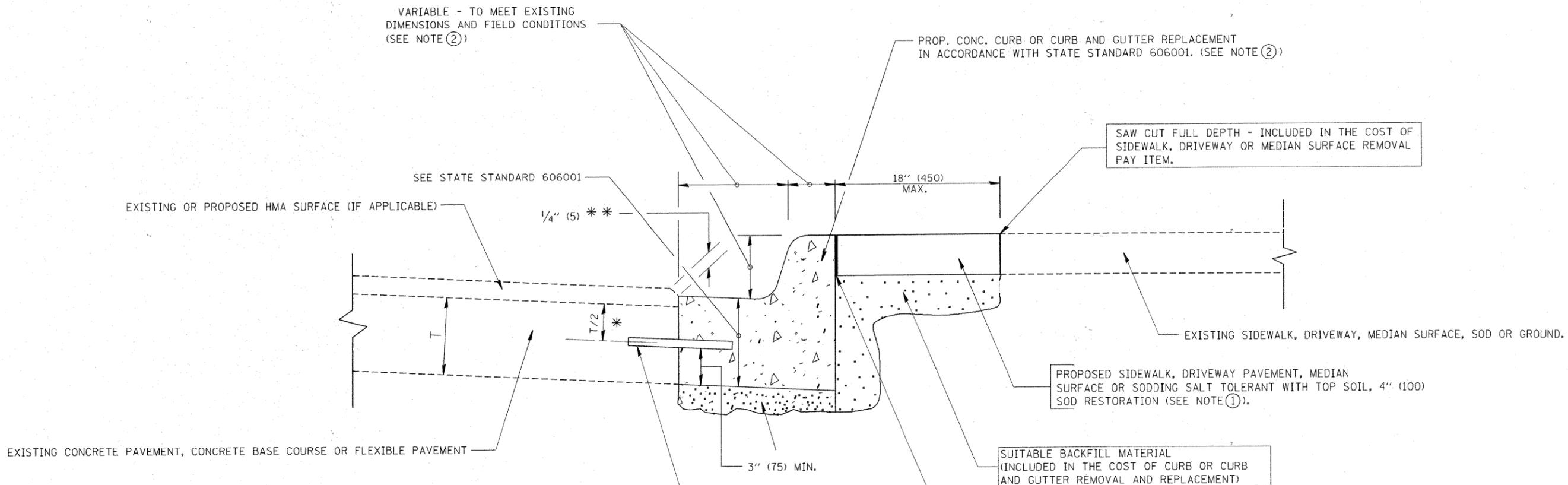
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN: MAIN STREET-
STA. 20+00 TO STA. 32+66 (ILLINOIS STREET)

SCALE: SHEET NO. OF SHEETS STA. TO STA.

(PAVEMENT MARKING)

| F.A. R.T.E. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|----------------|---------------------------|--------------|-----------|
| 3587 | 08-00044-00-RS | COOK | 18 | 7 |
| CONTRACT NO. 63452 | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | M-9003(211) | |



- * 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.
SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,
- ② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED
- ③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- ⑤ 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.
- ⑥ 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.
- ⑦ 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.
- ⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

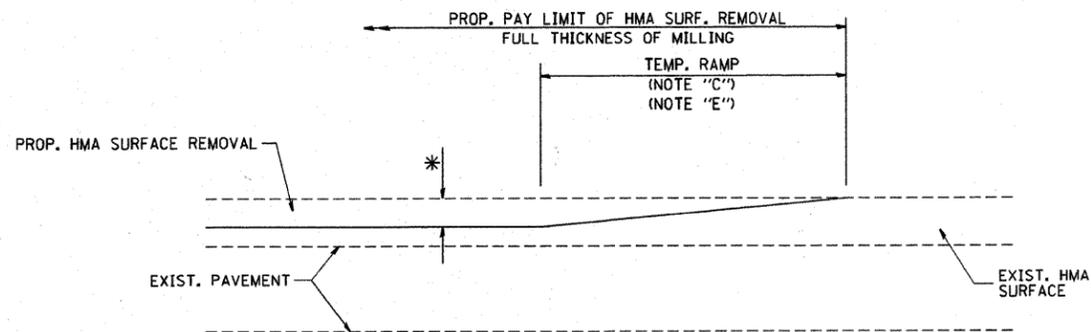
- PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)
- UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.
- REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

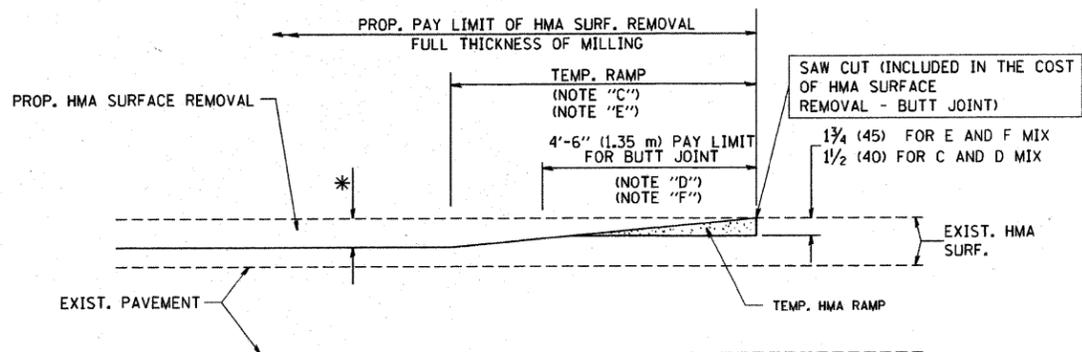
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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| FILE NAME = | USER NAME = drivakosgn | DESIGNED - A. HOUSEH | REVISED - R. SHAH 10-03-96 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT | F.A. RTE. 3587 | SECTION 08-00044-00-RS | COUNTY COOK | TOTAL SHEETS 18 | SHEET NO. 9 | | |
| | | DRAWN - | REVISED - A. ABBAS 03-21-97 | | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(211) | | |
| | | CHECKED - | REVISED - M. GOMEZ 01-22-01 | | | | | | | | | |
| | | DATE - 03-11-94 | REVISED - R. BORO 12-15-09 | | | | | | | | | |
| | | | | | | | | | | | | |



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

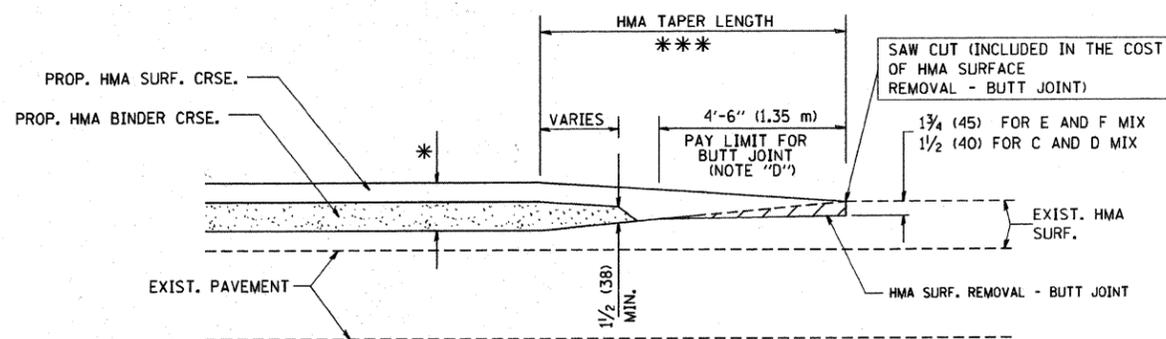
OPTION 1



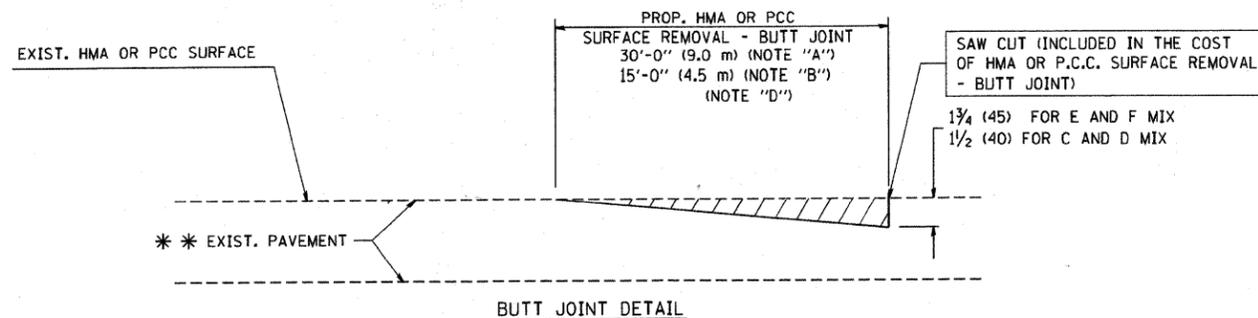
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

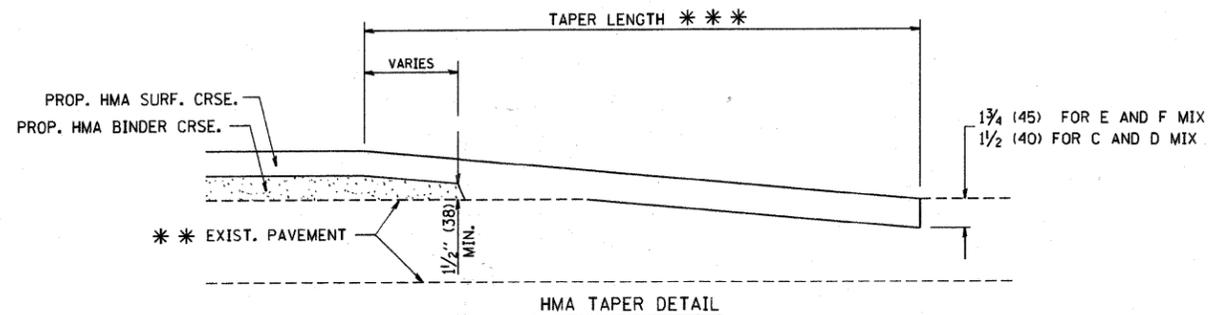
TYPICAL TEMPORARY RAMP



BUTT JOINT AND HMA TAPER
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")

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".

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

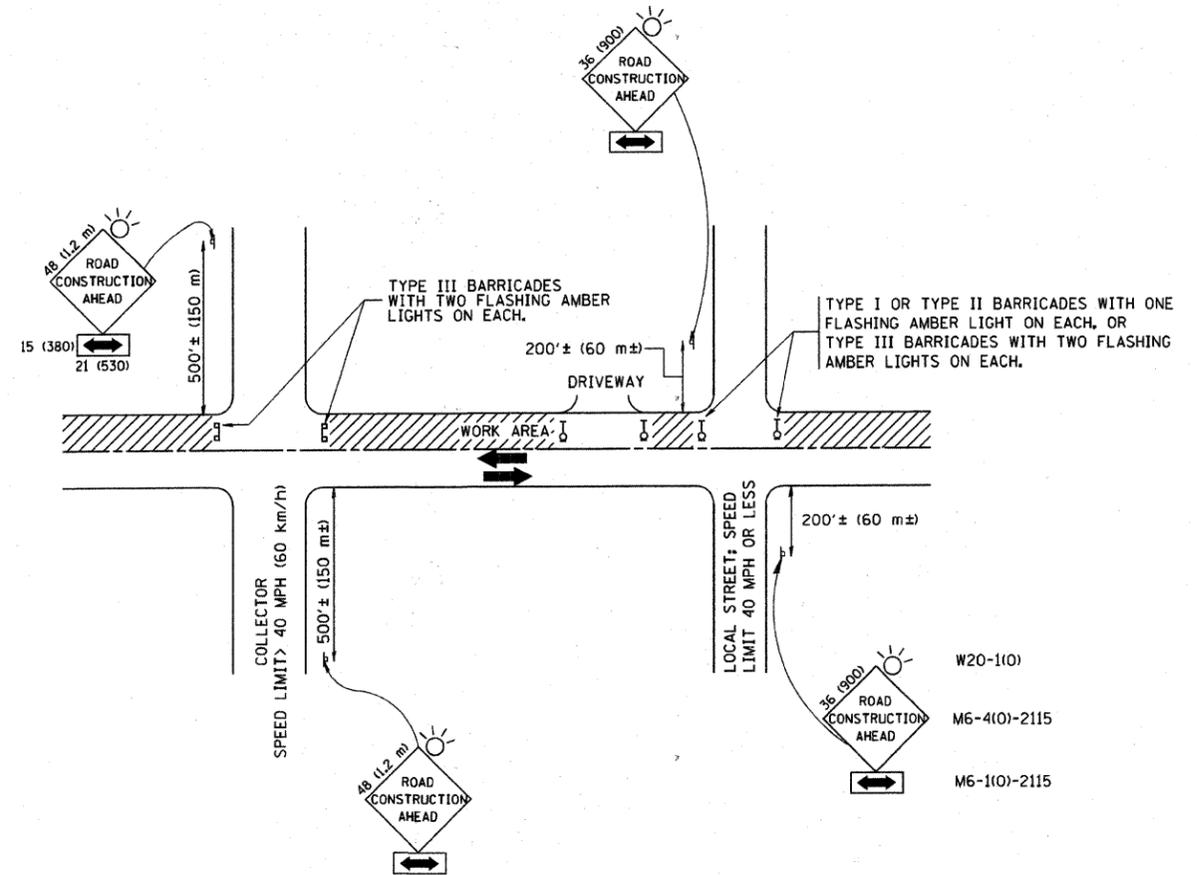
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| | | DRAWN - | REVISED - A. ABBAS 03-21-97 |
| | PLOT SCALE = 50.0000 // IN. | CHECKED - | REVISED - M. GOMEZ 04-06-01 |
| | PLOT DATE = 1/4/2008 | DATE - 06-13-90 | REVISED - R. BORO 01-01-07 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---|---------------------------|--------------------|--------------------|-----------------|
| F.A. RTE. 3587 | SECTION 08-00044-00-RS | COUNTY COOK | TOTAL SHEETS 18 | SHEET NO. 10 |
| BD400-05 BD32 | | CONTRACT NO. 63452 | | |
| FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT M-9003(211) | | | | |



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. 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.
2. 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.
3. 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.

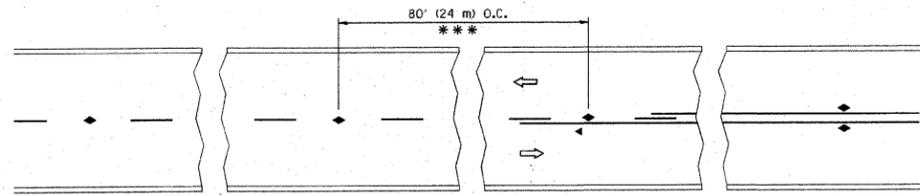
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| | PLOT SCALE = 50,000' / IN. | CHECKED - | REVISED - A. HOUSEH 10-15-96 |
| | PLOT DATE = 1/4/2008 | DATE - 06-89 | REVISED - T. RAMMACHER 01-06-00 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

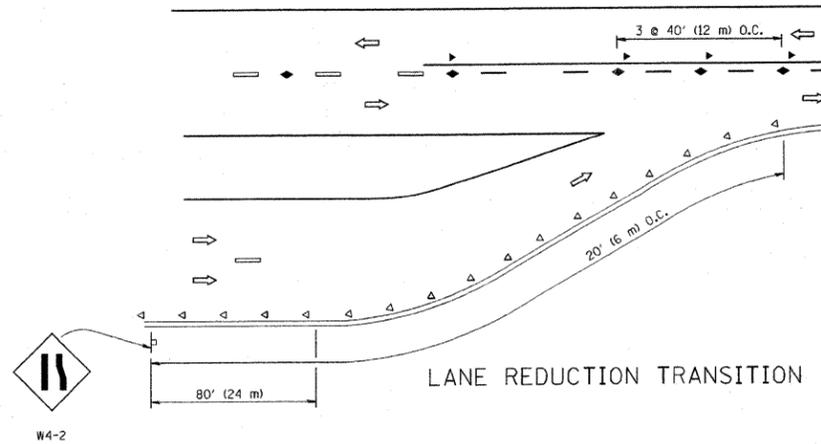
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|----------------|--------|--------------------|-----------|
| 3587 | 08-00044-00-RS | COOK | 18 | 11 |
| TC-10 | | | CONTRACT NO. 63452 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(211) | | | | |

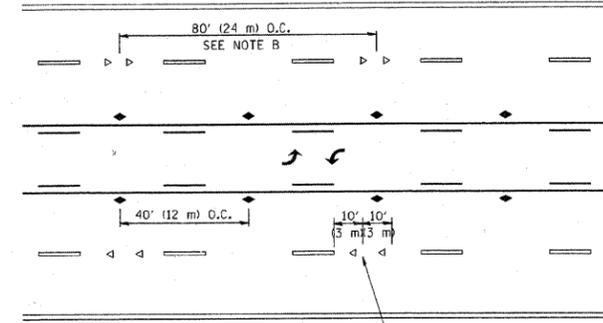


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

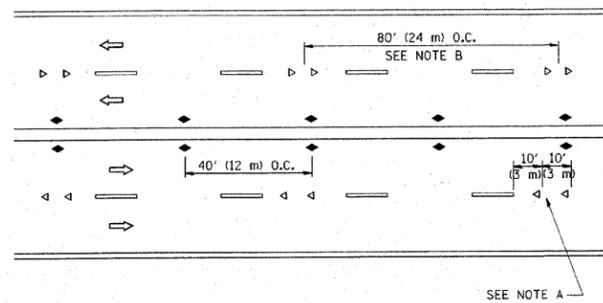
TWO-LANE/TWO-WAY



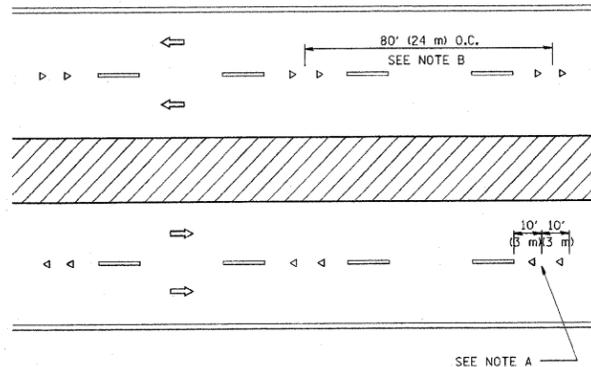
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

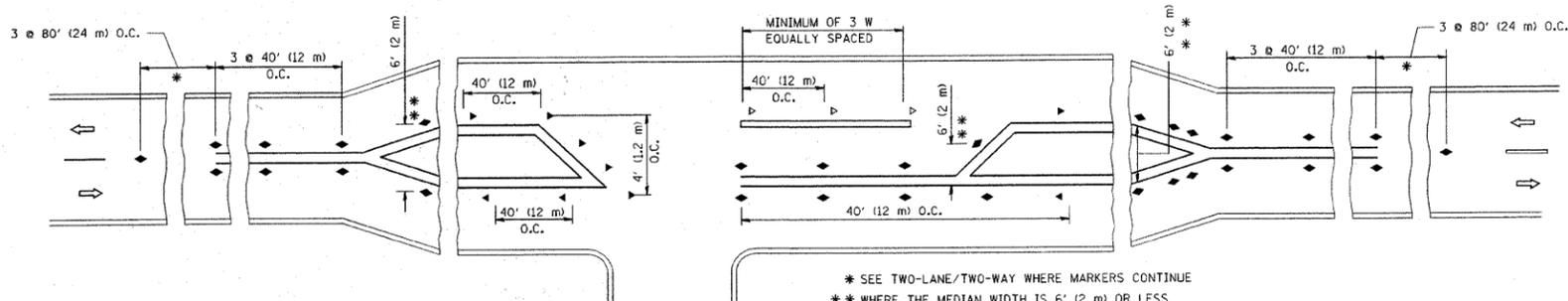
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

DESIGN NOTES

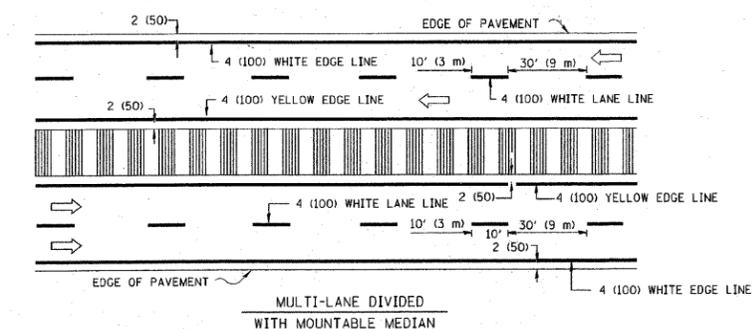
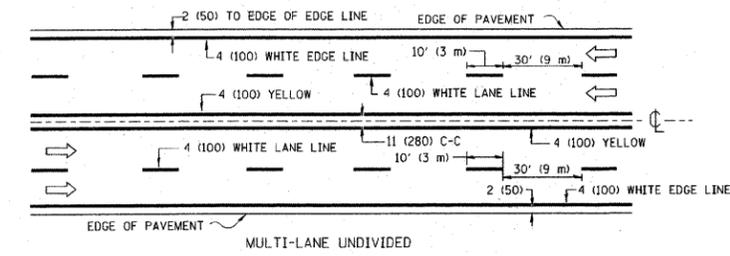
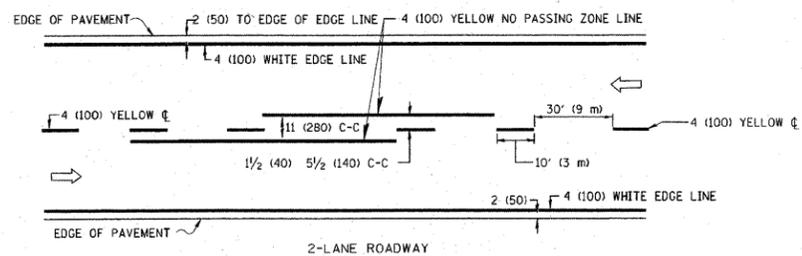
1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

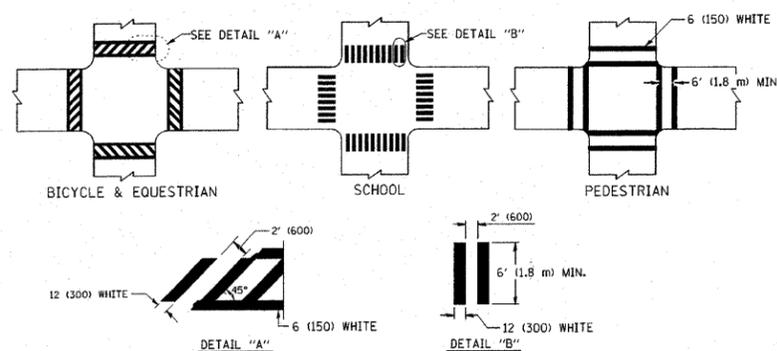
All dimensions are in inches (millimeters) unless otherwise shown.

| | | | | | | | | | | | | | |
|---------------------------------------|-----------------------|------------|---------------------------------|---|---|-------------|-------------|-----------|----------------|--------------|--------------|-----------|--------------------|
| FILE NAME = | USER NAME = drvakosgn | DESIGNED - | REVISED - T. RAMMACHER 09-19-94 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TYPICAL APPLICATIONS | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| c:\pwork\pzd\drvakosgn\d0100315\1.dgn | | DRAWN - | REVISED - T. RAMMACHER 03-12-99 | | RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) | | | 2783 | 09-00054-00-RS | COOK | 18 | 12 | |
| | | CHECKED - | REVISED - T. RAMMACHER 01-06-00 | | SCALE: NONE | SHEET NO. 1 | OF 1 SHEETS | STA. | TO STA. | TC-11 | | | CONTRACT NO. 63452 |
| | | DATE - | REVISED - C. JUCIUS 09-09-09 | | | | | | | | | | |
| | | | | | | | | | | | | | |

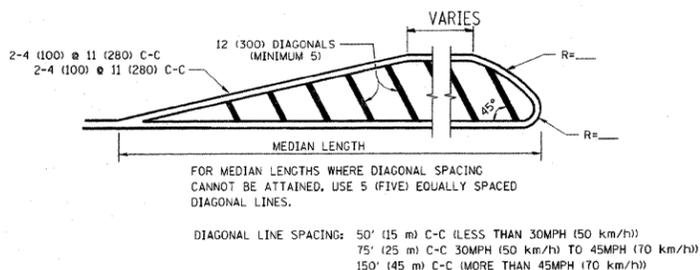
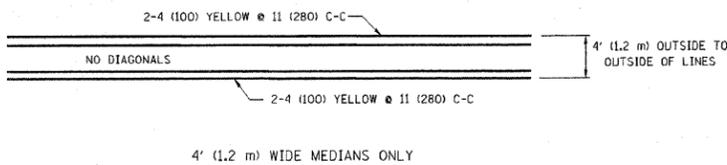


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

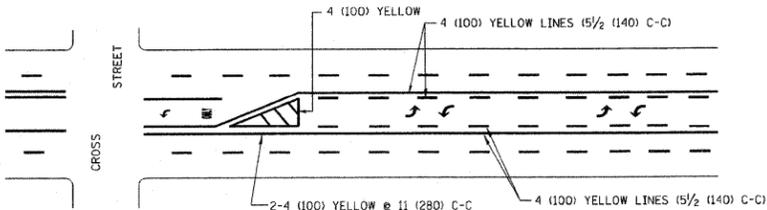
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



MEDIANS OVER 4' (1.2 m) WIDE

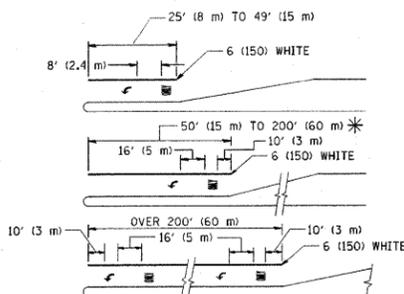


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

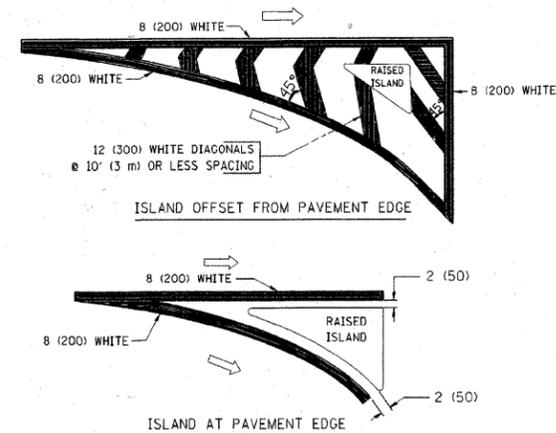


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

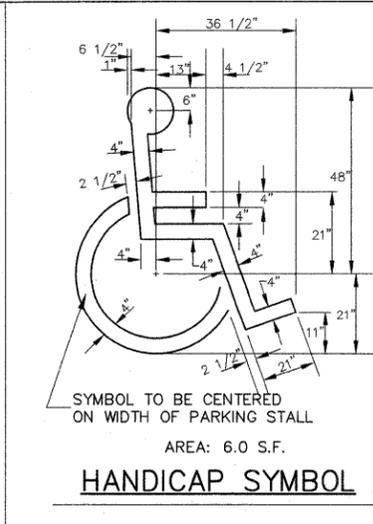
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING



| TYPE OF MARKING | WIDTH OF LINE | PATTERN | COLOR | SPACING / REMARKS |
|---|---|------------------------------|--|--|
| CENTERLINE ON 2 LANE PAVEMENT | 4 (100) | SKIP-DASH | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT | 2 @ 4 (100) | SOLID | YELLOW | 11 (280) C-C |
| NO PASSING ZONE LINES: FOR ONE DIRECTION 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 8' (2.4m) LEFT ARROW | SKIP-DASH AND SOLID IN PAIRS | YELLOW WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL |
| CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150) 12 (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.

| | 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) |
| RAILROAD "R" 1.8m (6ft.) | 0.33 (3.6) | — |
| RAILROAD "X" 6.1m (20ft.) | 5.02(54.0) | — |
| HANDICAPPED SYMBOL | 0.43 (4.6) | — |

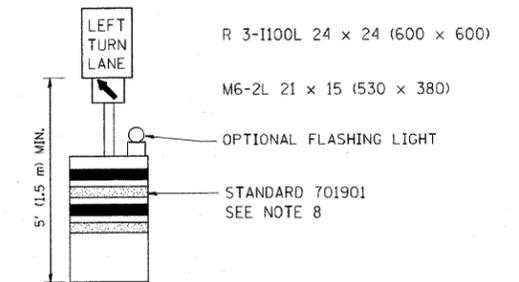
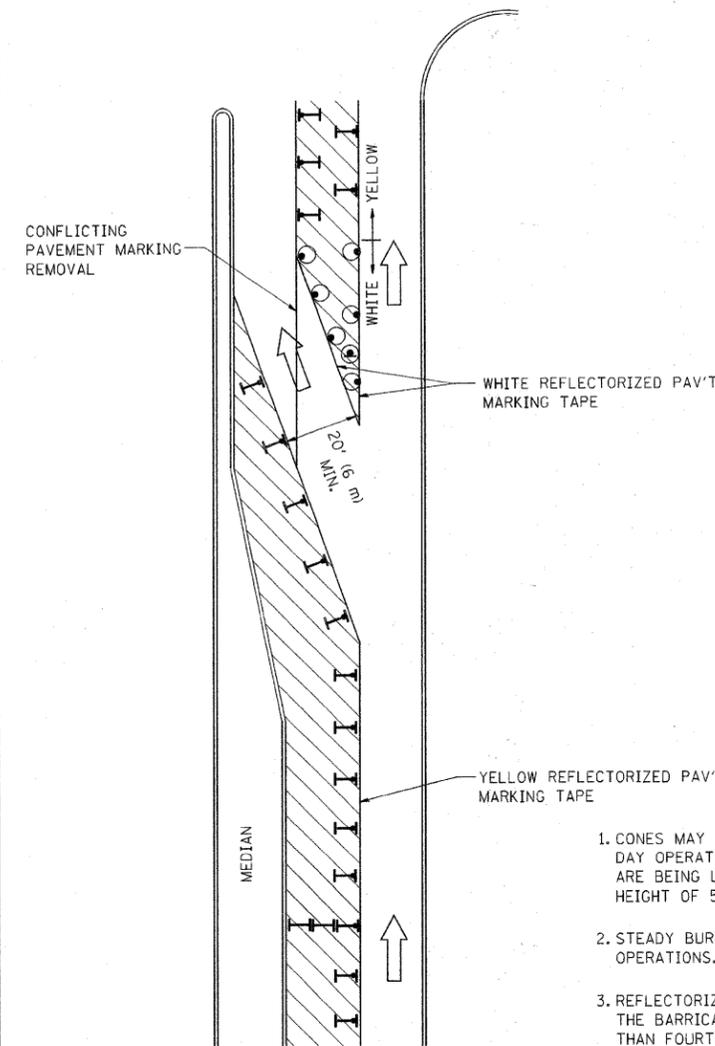
All dimensions are in inches (millimeters) unless otherwise shown.

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| | | DRAWN - | REVISED -C, JUCIUS 09-09-09 |
| | | CHECKED - | REVISED - |
| | | DATE - 03-19-90 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | | | | |
|---------------------------|--|-------------------------|----------------|--------|--------------|-----------|
| DISTRICT ONE | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| TYPICAL PAVEMENT MARKINGS | | 3587 | 08-00044-00-RS | COOK | 18 | 13 |
| SCALE: NONE | | SHEET NO. 1 OF 1 SHEETS | | STA. | TO STA. | |

| | | | |
|--------------------------------|--|------------------------------|--|
| TC-13 | | CONTRACT NO. 63452 | |
| FED. ROAD DIST. NO. 1 ILLINOIS | | FED. AID PROJECT M-9003(211) | |



GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

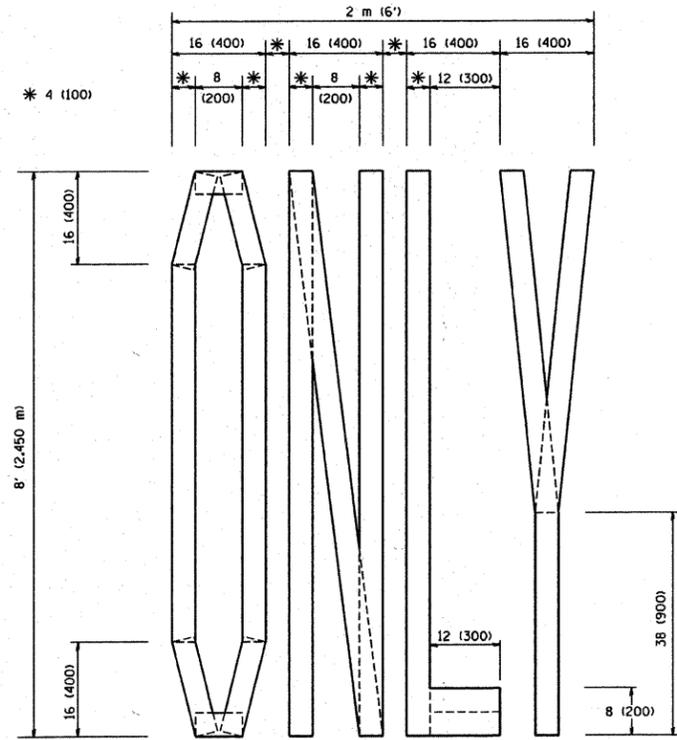
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| c:\pwork\pwork\DRIVAKOSGN\d0108315\14.dgn | | REVISED - A. HOUSEH 11-07-95 | REVISED - |
| | PLOT SCALE = 49.9999 // IN. | REVISED - A. HOUSEH 10-12-96 | REVISED - |
| | PLOT DATE = 9/14/2009 | REVISED - T. RAMMACHER 01-06-00 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

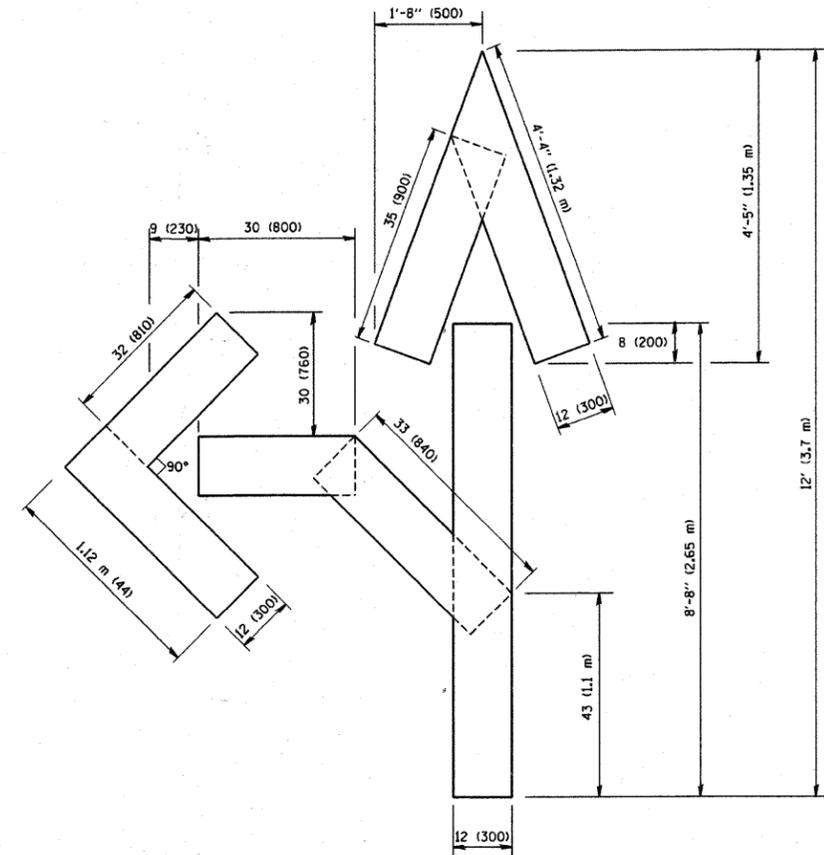
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

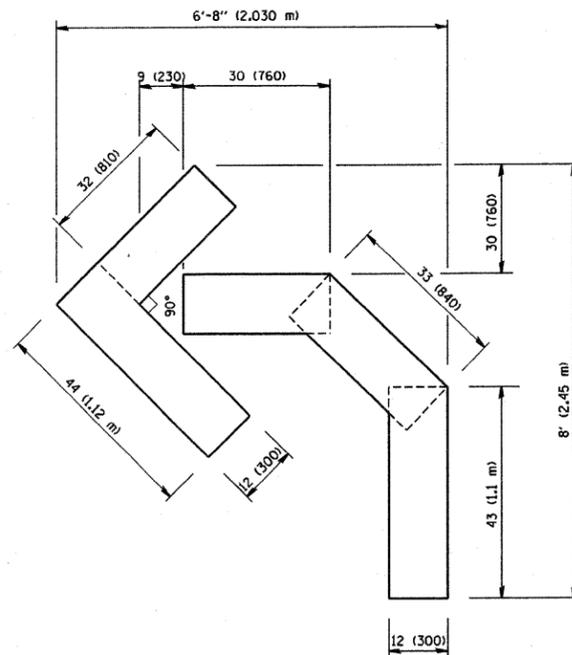
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|---|----------------|---------------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 3587 | 08-00044-00-RS | COOK | 18 | 14 |
| TC-14 | | CONTRACT NO. 63452 | | |
| FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT M-9003(211) | | | | |



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.

| | | | |
|--|------------------------------|-----------------|--------------------------------|
| FILE NAME = W:\diststd\22x34\tc16.dgn | USER NAME = geglienabt | DESIGNED - | REVISED -T. RAMMACHER 06-05-96 |
| | | DRAWN - | REVISED -T. RAMMACHER 11-04-97 |
| | PLLOT SCALE = 50.0000 "/ IN. | CHECKED - | REVISED -T. RAMMACHER 03-02-98 |
| | PLLOT DATE = 1/4/2008 | DATE - 09-18-94 | REVISED -E. GOMEZ 08-28-00 |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

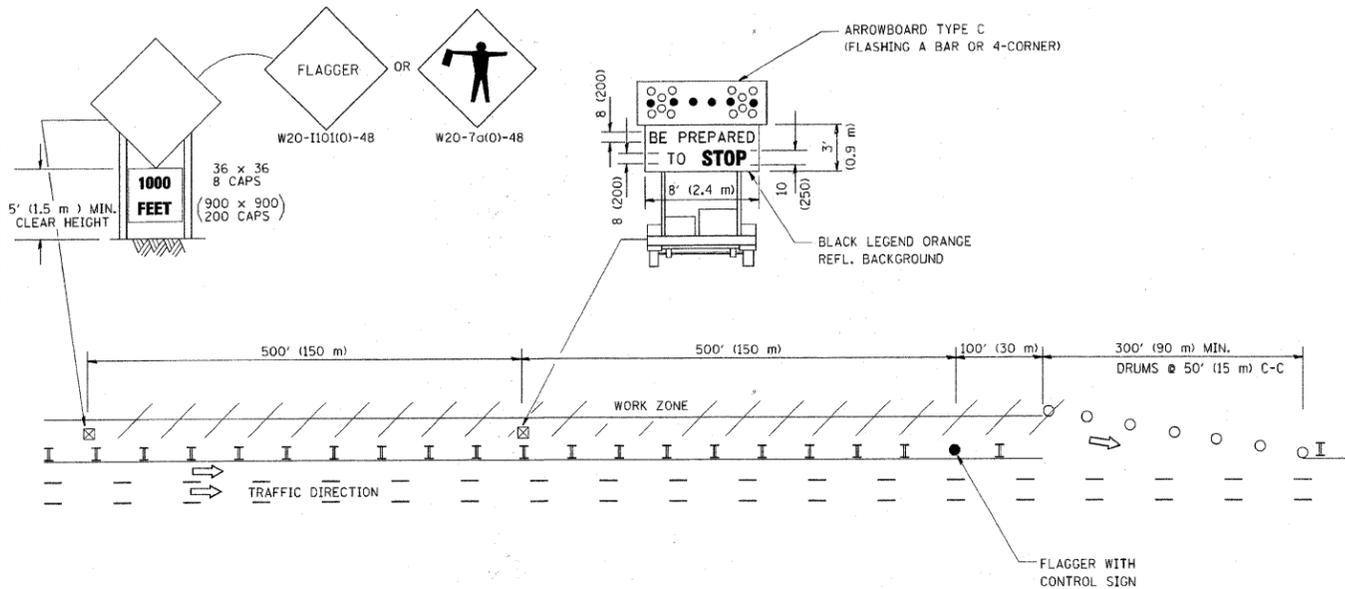
**PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

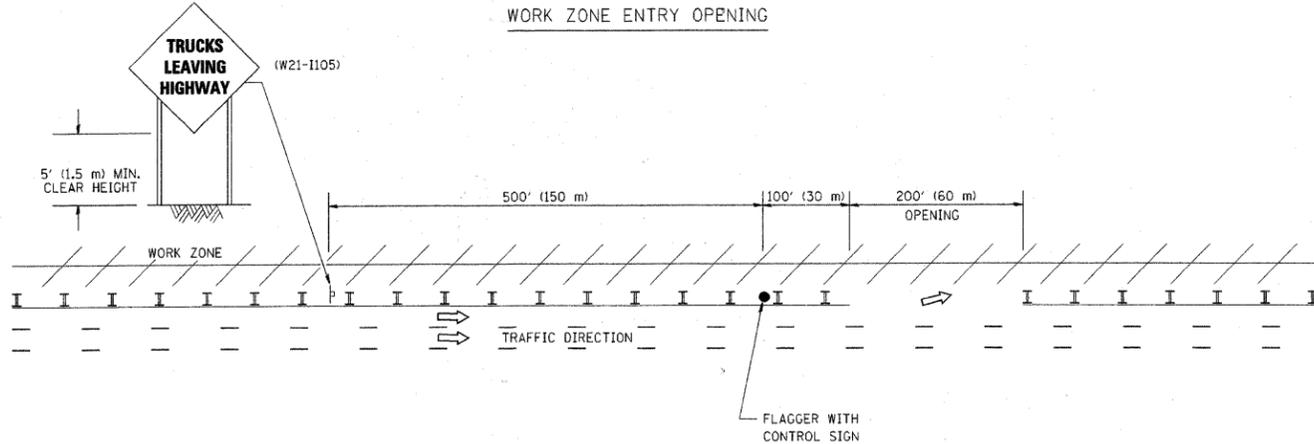
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| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 3587 | 08-00044-00-RS | COOK | 18 | 15 |
| TC-16 | | | CONTRACT NO. 63452 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(211) | | | | |

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



- NOTES:
1. THE ARROWBOARD, THE FLAGGER AHEAD 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. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
 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

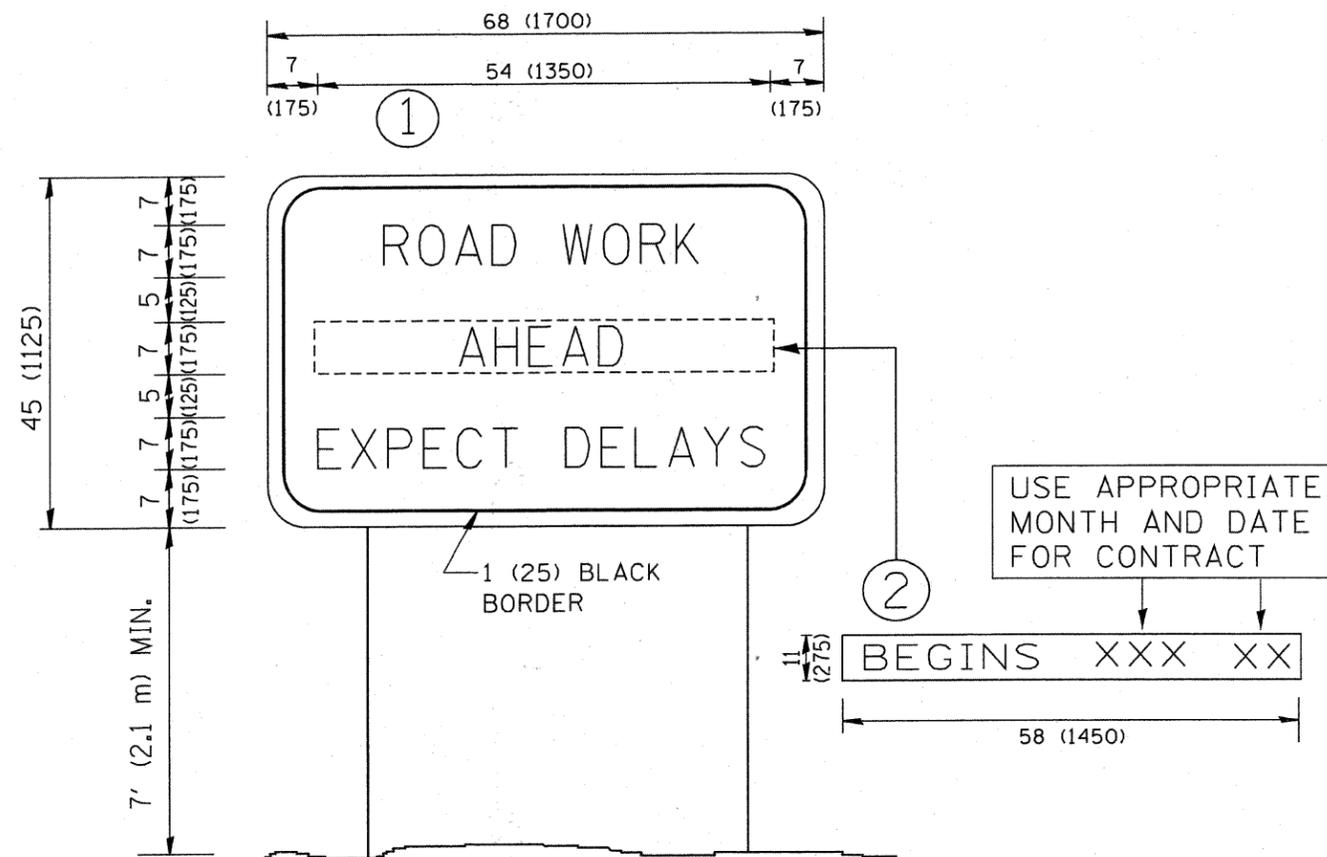
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

| | | | |
|--|---------------------------|------------|------------------------|
| FILE NAME = W:\diststd\22x34\to18.dgn | USER NAME = leuse | DESIGNED - | REVISED - J.A.F. 04-03 |
| | | DRAWN - | REVISED - J.A.F. 02-06 |
| | PLOT SCALE = 50.000 / IN. | CHECKED - | REVISED - S.P.B. 01-07 |
| | PLOT DATE = 1/26/2010 | DATE - | REVISED - S.P.B. 12-09 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | |
|--|--------------------------------------|
| SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS | |
| SCALE: NONE | SHEET NO. 1 OF 1 SHEETS STA. TO STA. |

| | | | | |
|---|---------------------------|--------------------|--------------------|-----------------|
| F.A. RTE. 3587 | SECTION 08-00044-00-RS | COUNTY COOK | TOTAL SHEETS 18 | SHEET NO. 16 |
| TC-18 | | CONTRACT NO. 63452 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(211) | | | | |



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

| | | | |
|--|----------------------------|------------|---------------------------------|
| FILE NAME = W:\diststd\22x34\to22.dgn | USER NAME = geglianobt | DESIGNED - | REVISED - R. MIRS 09-15-97 |
| | | DRAWN - | REVISED - R. MIRS 12-11-97 |
| | PLOT SCALE = 50,000' / IN. | CHECKED - | REVISED - T. RAMMACHER 02-02-99 |
| | PLOT DATE = 1/4/2008 | DATE - | REVISED - C. JUCIUS 01-31-07 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

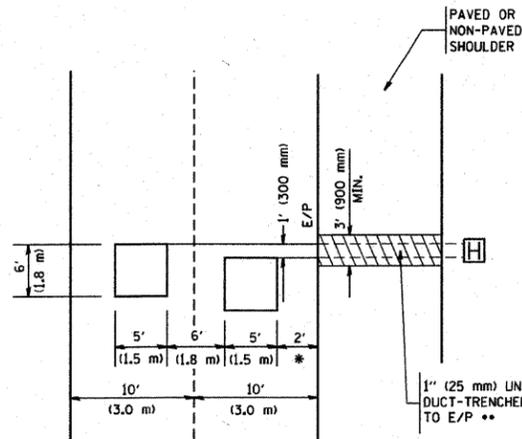
**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|----------------|--------------------|--------------|-----------|
| 3587 | 08-00044-00-RS | COOK | 18 | 17 |
| TC-22 | | CONTRACT NO. 63452 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003(211) | | | | |

LOOPS NEXT TO SHOULDERS

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

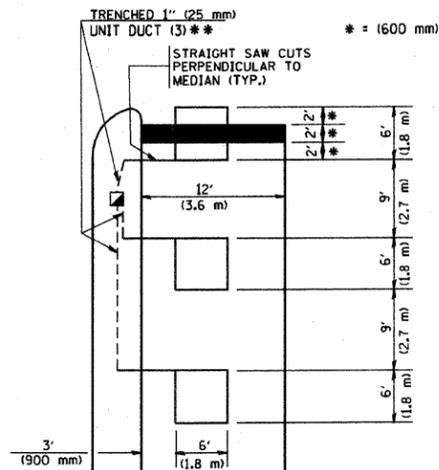


* = (600 mm)

** 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.

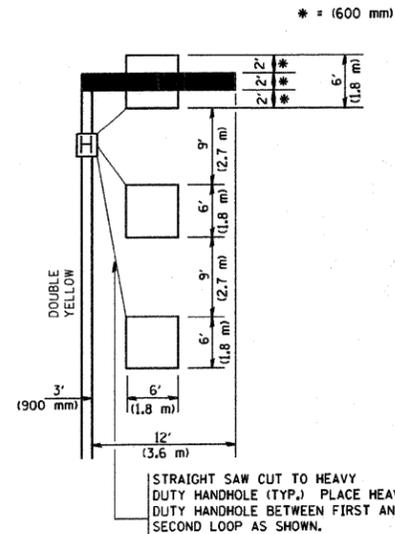


* = (600 mm)

** 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)**



* = (600 mm)

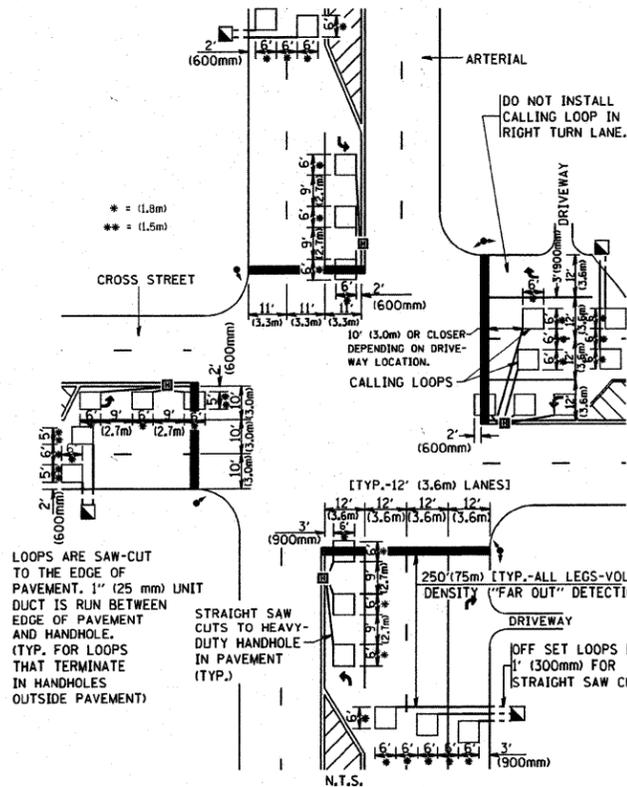
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

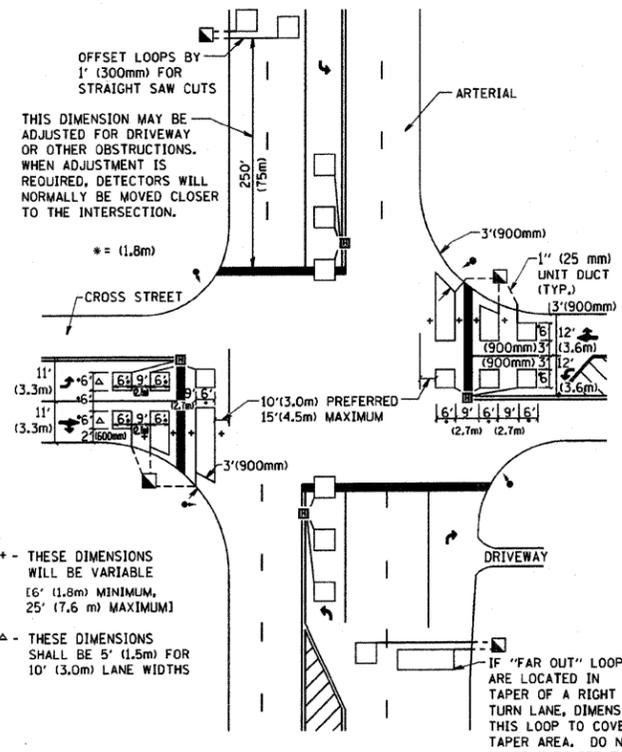
- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST 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.

**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.**

PLACEMENT OF DETECTORS

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

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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| FILE NAME = w:\dststd\22x34\ts07.dgn | USER NAME = gaglianob | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING | | F.A. - RTE. 3587 | SECTION 08-00044-00-RS | COUNTY COOK | TOTAL SHEETS 18 | SHEET NO. 18 | |
| PLOT SCALE = 50.0000' / IN. | CHECKED - R.K.F. | DATE - | REVISED - | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | TS-07 | | CONTRACT NO. 63452 | | |
| PLOT DATE = 1/4/2008 | DATE - | REVISED - | REVISED - | | | | FED. ROAD DIST. NO. 1 | | ILLINOIS | | FED. AID PROJECT M-9003(211) | |
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