

**GENERAL NOTES**

**INDEX OF SHEETS**

| SHEET NO. | DESCRIPTION   |
|-----------|---|
| 1         | TITLE SHEET   |
| 2         | INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES                              |
| 3         | SUMMARY OF QUANTITIES   |
| 4-6       | TYPICAL SECTIONS  |
| 7-9       | SEQUENCE OF OPERATIONS  |
| 10-17     | PROPOSED PLANS AND PAVEMENT MARKING PLANS                                       |
| 18-20H.   | INDUCTION LOOP PLANS  |
| 21        | DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING                             |
| 22        | PAVEMENT PATCHING FOR HMS SURFACED PAVEMENT                                     |
| 23        | BUTT JOINTS AND HMA TAPER DETAILS   |
| 24        | HMS TAPER AT EDGE OF PCC PAVEMENT   |
| 25        | FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS                                  |
| 26        | TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES |
| 27-28     | MULTI-LANE FREEWAY PAVEMENT MARKING   |
| 29        | PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING                        |
| 30        | TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE AND MULTI-LANE WEAVE                 |
| 31        | SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS                           |

**STANDARDS**

|           |  |
|-----------|--|
| 420001-07 | PAVEMENT JOINTS  |
| 442201-03 | CLASS C AND D PATCHES  |
| 635011-01 | REFLECTOR MARKER AND MOUNTING DETAILS  |
| 642001    | SHOULDER RUMBLE STRIPS   |
| 701101-01 | OFF-ROAD OPERATIONS, MULTILANE LESS THAT 4.5m (15') AWAY FOR SPEED ≥ 45 MPH    |
| 701400-02 | APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY                                   |
| 701401-04 | LANE CLOSURE, FREEWAY/EXPRESSWAY   |
| 701411-04 | LANE CLOSURE, MULTILANE AT ENTRANCE OR EXIT RAMP FOR SPEEDS ≥ 45 MPH           |
| 701422-01 | LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH                         |
| 701426-02 | LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS ≥ 45 MPH |
| 701446    | TWO LANE CLOSURE, FREEWAY/EXPRESSWAY   |
| 701901    | TRAFFIC CONTROL DEVICES  |
| 780001-01 | TYPICAL PAVEMENT MARKINGS  |
| 781001-02 | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS                        |

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND OTHER LOCAL INVOLVED COMMUNITIES.

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

STRIP REFLECTIVE CRACK CONTROL TREATMENT SHALL BE INSTALLED IMMEDIATELY IN FRONT OF THE BITUMINOUS SURFACING OPERATION IN SUCH A MANNER SO THAT TRAFFIC WILL NOT DISTURB IT PRIOR TO BEING COVERED BY SMA SURFACING. ANY CRACK TREATMENT DISTURBED BY TRAFFIC WILL BE REPLACED AT THE CONTRACTORS EXPENSE.

THE CONTRACTOR MUST PROPERLY MARK AND RECORD THE EXACT LOCATION OF EACH TRAFFIC SYSTEMS CENTER DETECTOR LOOPS COREHOLE PRIOR TO RESURFACING SO THAT THE COREHOLE CAN BE EASILY FOUND WHEN CUTTING THE DETECTOR LOOPS.

PRIOR TO THE CONTRACTOR DIGGING OR EXCAVATING NEAR TRAFFIC SYSTEMS CENTER LOOPS, CABINETS AND TYPE C SERVICE INSTALLATIONS, THE CONTRACTOR MUST CALL THE ELECTRICAL MAINTENANCE CONTRACTOR (CONTRACTING AND MATERIALS AT 773-287-7600) FOR FIELD LAYOUT OF EXISTING FACILITIES.

ALL DRAINAGE STRUCTURES CLEANED AS PART OF THE CONTRACT MUST BE CLEAN AT THE COMPLETION OF THE CONTRACT.

THE RESIDENT ENGINEER SHALL CONTACT DEBBIE HANLON, AREA TRAFFIC ENGINEER, AT (847) 438-2300 A MINIMUM OF (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

~~WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1-1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS OVER 45 MPH (80 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPES A MINIMUM OF 1:3 (V:H).~~

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

~~PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.~~

THE ENGINEER SHALL REPORT CLEARANCES UNDER BRIDGE AFTER RESURFACING AT STA. 498+67.97 ILL RTE. 53 = STA. 100+00 LAKE COOK ROAD, SN 016-0973 (NB) AND SN 016-0371 (SB)

THE CONTRACTOR SHALL TAKE PRECAUTIONS NOT TO DAMAGE THE UNDERLYING OPEN GRADED LAYER. BEFORE PATCHING AN AREA, THE CONTRACTOR SHALL PLACE "GEOTECHNICAL FABRIC FOR GROUND STABILIZATION", OF THE SAME DIMENSIONS AS THE PATCH, BETWEEN THE PATCH AND THE OPEN GRADED LAYER ACCORDING TO SECTION 210 OF THE STANDARD SPECIFICATIONS. THE COST OF THIS FABRIC AND ITS PLACEMENT IS INCLUDED IN THE COST OF THE PATCH.

| HOT-MIX ASPHALT MIXTURE REQUIREMENTS                                  |                      |               |
|---|----------------------|---------------|
| MIXTURE TYPE  | AC TYPE              | AIR VOIDS     |
| <b>PAVEMENT RESURFACING</b>   |                      |               |
| POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80 | SBS PG 76-28/-22     | 4% @ 80 GYR   |
| POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80  | SBS PG 76-28/-22     | 4% @ 80 GYR   |
| POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50            | SBS/SBR PG 76-28/-22 | 4% @ 50 GYR.  |
| <b>SHOULDER / RAMP</b>  |                      |               |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)              | PG 64-22             | 4% @ 70 GYR   |
| HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70                           | PG 64-22 *           | 4% @ 70 GYR.  |
| <b>PATCHING</b>   |                      |               |
| CLASS D PATCHES, (HMA BINDER IL-19 mm)                                | PG 64-22             | 4% @ 105 GYR. |
| HOT-MIX ASPHALT REPLACEMENT OVER PATCHES, (HMA BINDER IL-19 mm)       | PG 64-22 *           | 4% @ 70 GYR.  |

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIX QUANTITIES IS 112 LBS/SQ YD/IN FOR HMA AND 135 LBS/SQ YD/IN FOR SMA  
\* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER SHALL BE PG 58-22

|   |                      |            |               |   |  |                         |         |              |              |                    |  |
|---|----------------------|------------|---------------|---|--|-------------------------|---------|--------------|--------------|--------------------|--|
| FILE NAME =<br>c:\projects\p181694\design-bb.dgn  | USER NAME = hamdaneh | DESIGNED - | REVISED -     | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>ILLINOIS ROUTE 53 (EXTENSION)<br/>LAKE-COOK ROAD TO U. S. 12 (RAND ROAD)<br/>INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES</b> | F.A.P. RTE.             | SECTION | COUNTY       | TOTAL SHEETS | SHEET NO.          |  |
| PLOT SCALE = 52.948' / IN.                        | CHECKED -            | REVISED -  | 342           |   |  | (530 & 531) RS-4        | COOK    | 31           | 2            |                    |  |
| PLOT DATE = 4/18/2008                             | DATE -               | REVISED -  | SCALE: N.T.S. |   |  | SHEET NO. 1 OF 3 SHEETS |         | STA. TO STA. |              | CONTRACT NO. 62079 |  |
| FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT |                      |            |               |   |  |                         |         |              |              |                    |  |