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**STATE STANDARDS**

000001-05 Standard Symbols, Abbreviations, and Patterns  
 001006 Decimal of an Inch and of a Foot  
 280001-04 Temporary Erosion Control Systems  
 420001-07 Pavement Joints  
 420101-04 7.2m (24') Jointed PCC Pavement  
 420111-02 PCC Pavement Roundouts  
 542301-02 Precast Reinforced Concrete Flared End Section  
 542311-01 Grating for Concrete Flared End Section For 600 mm (24") thru 1300 mm (54") Pipe  
 542601-01 Reinforced Concrete Pipe Elbow  
 542606-01 Reinforced Concrete Pipe Tee  
 601001-03 Sub-Surface Drains  
 601101-01 Concrete Headwall for Pipe Drains  
 602001-01 Inlet, Type A  
 602011-01 Catch Basin, Type A  
 602301-02 Inlet, Type B  
 602306-02 Catch Basin, Type C  
 602401-02 Manhole, Type A  
 602406-03 Manhole, Type A, 1800 mm (72") Diameter  
 602601-02 Gate, Type 8  
 604001-03 Precast Reinforced Concrete Flat Slab Top  
 604036-02 Frame and Lids, Type 1  
 604091-02 Frame and Gate, Type 24  
 606001-04 Concrete Curb and Combination Concrete Curb and Gutter  
 606006-02 Outlet for Concrete Curb and Gutter, Type B-15.60 (B-6.24)  
 606301-04 PC Concrete Islands And Medians  
 606306-03 Corrugated PC Concrete Medians  
 630001-08 Steel Plate Beam Guardrail  
 631011-05 Traffic Barrier Terminal, Type 2  
 635006-03 Reflector and Terminal Marker Placement  
 701001-02 Off-Road Operations, 2L 2W, 4.5m (15') Min. Away, For Speeds > 45 MPH  
 701006-03 Off-Road Operations, 2L 2W, 4.5m (15') To 600 mm (24") Away, For Speeds > 45 MPH  
 701011-02 Off-Road Moving Operations, 2L 2W, Day Only, For Speeds > 45 MPH  
 701101-02 Off-Road Operations, Multilane, Less Than 4.5m (15') Away, For Speeds > 45 MPH  
 701106-02 Off-Road Operations, Multilane, More Than 4.5m (15') Away, For Speeds > 45 MPH  
 701201-03 Lane Closure, 2L 2W, Day Only, On-Road To 600 mm (24") Off-Road, For Speeds > 45 MPH  
 701301-03 Lane Closure, 2L 2W, Short Time Operations  
 701306-02 Lane Closure, 2L 2W, Slow Moving Day Only Operations, For Speeds > 45 MPH  
 701326-03 Lane Closure, 2L 2W, Pavement Widening, For Speeds > 45 MPH  
 701401-05 Lane Closure, Multilane, For Speeds > 45 MPH  
 701406-05 Lane Closure, Multilane, Day Operations Only, For Speeds > 45 MPH  
 701601-00 Urban lane closure, multilane 1W or 2W with nontransversible median.  
 701602-04 Urban lane closure, multilane, 2W with bidirectional left turn lane.  
 701701-04 Urban Lane Closure, Multilane Intersection  
 701901-01 Traffic Control Devices  
 704001-05 Temporary Concrete Barrier  
 720001-01 Sign Panel Mounting Details  
 780001-02 Typical Pavement Markings  
 781001-03 Typical Applications for Raised Reflective Pavement Markers  
 813001 Junction Boxes  
 814001-02 Concrete Handholes  
 814006-02 Double Handholes  
 857001-01 Standard Phase Designation Diagrams and Phase Sequences  
 877001-04 Steel Mast Arm Assembly and Pole  
 877006-03 Steel Mast Arm Assembly and Pole with Dual Mast Arms  
 877011-04 Steel Combination Mast Arm Assembly and Pole  
 878001-07 Concrete Foundation Details  
 880001-01 Span Wire Mounted Signals and Flashing Beacon Installation  
 880006-01 Traffic Signal Mounting Details  
 886001-01 Detector Loop Installations

**GENERAL NOTES**

- ALL ELEVATIONS SHOWN REFER TO U.S.G.S. DATUM UNLESS OTHERWISE NOTED.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 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.
- 10 FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB & GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS & GUTTERS AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

6. ALL SAWCUTS FOR THE PROPER EXECUTION OF WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE APPLICABLE REMOVAL ITEMS.

7. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF GRAYSLAKE, LAKE COUNTY AND THE LOCAL TOWNSHIPS.

8. BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I AND TYPE II BARRICADE USED, ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.

9. ON STATE STANDARDS 482001 AND 483001 AGGREGATE SUBGRADE 12" SHALL BE USED AS THE IMPROVED SUBGRADE. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE UNDER THE SHOULDER SHALL BE INCLUDED IN THE COST PER SQUARE YARD OF "AGGREGATE SUBGRADE 12".

10. USE NO. 25 (#8) EPOXY-COATED TIE BARS CONFORMING TO ART. 1006.10 (A)(2) OF THE STANDARD SPECIFICATIONS FOR LONGITUDINAL CONSTRUCTION JOINT GROUTED-IN-PLACE TIE BAR AS SHOWN ON STATE STANDARD 420001 AND FOR TIEING PC CONCRETE WIDENING TO EXISTING CONCRETE PAVEMENT AS SHOWN ON THE PLANS. THE TIE BARS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PAVEMENT ITEMS BEING CONSTRUCTED.

11. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2" WHERE THE SPEED LIMIT IS 80KM/H (45 MPH) OR LESS AND 1" WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3" MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

12. ROADWAY CROSS SECTIONS MAY DIFFER IN SOME DETAILS FROM THE TYPICAL SECTIONS. REFER TO THE TYPICAL SECTIONS IN SUCH CASES.

- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND BITUMINOUS TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE DEPARTMENT'S GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSUITABLE SOILS SHOULD BE TESTED WITH A DYNAMIC OR STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 202.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH PGES OR EMBANKMENT AS DETERMINED BY THE GEOTECHNICAL ENGINEER. IF UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
- THE PLAT OF HIGHWAYS WAS PREPARED IN METRIC AND THE PLANS ARE IN ENGLISH.
- THE ENGINEER SHALL CONTACT MS. DEBBIE HANLON, AREA TRAFFIC FIELD TECHNICIAN, AT (847) 438-2300 TWO WEEKS PRIOR TO INSTALLATION OF ANY PERMANENT MARKINGS.
- IN ADDITION TO ALL THE REQUIRED PERMITS STATED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SECURE A CASH PERMIT BOND FROM THE LIBERTYVILLE TOWNSHIP AND SHALL NAME THE SAID TOWNSHIP AS ADDITIONAL INSURED PARTY ON THE CERTIFICATE OF INSURANCE. COPIES OF THE CERTIFICATE OF INSURANCE SHALL BE PROVIDED TO THE ENGINEER AND LIBERTYVILLE TOWNSHIP.

**COMMITMENTS**

- ALLOWANCES OF PASSENGER CAR U-TURNS, PRIMARILY FOR RESIDENTIAL AND LIMITED COMMERCIAL ACCESS ALONG CORRIDOR. U-TURN MANEUVERS OF PASSENGER CARS WILL BE ACCOMMODATED AT ALL INTERSECTIONS THROUGHOUT THE PROJECT, AND OTHER SPECIFIED LOCATIONS, UNLESS INDICATED OTHERWISE ON THE PROPOSED PLAN DUE TO POTENTIAL UNUSUAL CONFLICTS.
- TEMPORARY FENCE SHALL BE PLACED ALONG THE CONSTRUCTION LIMITS TO KEEP WORKERS AND EQUIPMENT OUT OF WOODED AREAS. LIMITS ARE APPROXIMATELY STA 253+70 TO STA 255+70 RT, STA 289+25 TO STA 295+10 RT, STA. 301+20 TO STA. 302+20 RT, STA. 306+40 TO STA. 308+50 RT, AND STA. 322+60 TO STA. 323+00 RT. THEREFORE, A QUANTITY OF 1,164 LF OF TEMPORARY FENCE HAS BEEN INCLUDED IN THE SUMMARY OF QUANTITIES TO ACCOUNT FOR TEMPORARY FENCE AT THESE LOCATIONS. ALL OTHER TEMPORARY FENCE NEEDED SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- EROSION CONTROL POLICY AND PROCEDURES IN DESIGN MEMORANDUM No. 94-42/CONSTRUCTION MEMORANDUM No. 94-60 (JUNE 1, 1994) ARE TO BE FOLLOWED DURING CONSTRUCTION. TEMPORARY FENCES WILL BE INSTALLED ALONG THE CONSTRUCTION LIMITS ADJACENT TO ALL OF THE WETLANDS TO PREVENT DAMAGE FROM EQUIPMENT OR PERSONNEL. THE STORMWATER POLLUTION PREVENTION PLAN AND PROVISIONS FOR EROSION CONTROL WILL BE INCORPORATED INTO THE CONSTRUCTION PLANS. PAY QUANTITIES FOR THIS WORK ARE PROVIDED.
- THE DEPARTMENT SHALL PROTECT AND PRESERVE ROADSIDE TREES ALONG STATE HIGHWAYS TO THE FULLEST EXTENT POSSIBLE CONSISTENT WITH STANDARDS OF HIGHWAY SAFETY. SPECIAL ATTENTION SHOULD BE MADE TO PROTECT THE SILVER MAPLE LOCATED AT STA. 295+93 (R) FROM GRADING AND SHAPING OF THE EXISTING DRIVEWAY. WHERE TREES MUST BE REMOVED, THE DEPARTMENT SHALL PURSUE OPPORTUNITIES FOR PROVIDING REPLACEMENT TREES IN SUITABLE LOCATIONS.
- THE PHASE II DESIGN SHALL BE COORDINATED WITH THE ON-GOING PRELIMINARY SITE INVESTIGATION (PSI) FOR HAZARDOUS AND NON-HAZARDOUS SPECIAL WASTE.

**DISTRICT ONE STANDARDS** \* INCLUDED AS PLAN SHEETS 117-134A.

DRAWING NO.	TITLE
BD01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND CURB OR EDGE GREATER THAN OR EQUAL TO 4.5 M (15 FT.)
BD02	DRIVEWAY DETAIL - DISTANCE BETWEEN R.O.W. AND FACE OF CURB IS GREATER THAN 4.5 M (15 FT.)
BD03	OUTLET FOR CONCRETE CURB AND GUTTER
BD12	MANHOLE WITH RESTRICTOR PLATE
BD22	PAVEMENT PATCHING FOR BITUMINOUS SURFACED PAVEMENT
BD32	BUTT JOINTS AND BITUMINOUS TAPER
BD34	STEEL PLATE BEAM GUARDRAIL ADJACENT TO CURB AND GUTTER AND STABILIZATION AT TBT TY. 1 SPL.
BD37	MANHOLE TYPE A 7 FT. DIAMETER
TC10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC11	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)
TC13	DISTRICT 1 TYPICAL PAVEMENT MARKINGS
TC16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
TC22	TEMPORARY INFORMATION SIGNING
TS05	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS07	DETECTOR LOOP INSTALLATION DETAIL FOR ROADWAY RESURFACING
TS08	EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION & SEQUENCE OF OPERATION AND RAILROAD PREEMPTION SEQUENCE OF OPERATION

FILE NAME =	USER NAME = #USER#	DESIGNED - MAP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, GENERAL NOTES, STATE STANDARDS AND COMMITMENTS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - JRH	REVISED -			344	(46-1S&47)WRS-3	LAKE	176	2	
	PLOT SCALE = #SCALE#	CHECKED - JW	REVISED -			U.S. ROUTE 45 RECONSTRUCTION		CONTRACT NO. 60957			
	PLOT DATE = #DATE#	DATE - 12-12-08	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		

Rev.