### IDOT HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS ABBREVIATIONS & PATTERNS
280001-06	TEMPORARY EROSION CONTROL SYSTEMS
424001-06	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542311-03	GRATING FOR CONCRETE FLARED END SECTION 24-54 IN PIPE
602001-02	CATCH BASIN-TYPE A
602011-02	CATCH BASIN-TYPE C
602301-03	INLET TYPE A
602401-03	MANHOLE TYPE A
602601-02	PRECAST REINFORCED CONCRETE SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAME & LIDS TYPE 1
604036-02	GRATE TYPE 8
604056-03	FRAME & GRATE TYPE 11V
604091-02	FRAME & GRATE TYPE 24
606001-04	CONCRETE CURB TYPE B & COMBINATION CONCRETE CURB & GUTTER
606301-04	PC CONCRETE ISLANDS & MEDIANS
606306-03	CORRUGATED PC CONCRETE MEDIANS
630001-10	STEEL PLATE BEAM GUARDRAIL
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
664001-02	CHAIN LINK FENCE
701006-03	OFF-RD OPERATIONS-2L 2W 15' TO 24' FROM PAVEMENT EDGE
701301-04	LANE CLOSURE 2L 2W SHORT TIME OPERATIONS
701301-04	
	LANE CLOSURE 2L 2W SLOW MOVING OPERATIONS DAY ONLY
701326-04	LANE CLOSURE 2L 2W PAVEMENT WIDENING
701701-08	URBAN LANE CLOSURE MULTILANE INTERSECTION
701901-02	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-03	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
720016-03	MAST ARM MOUNTED STREET NAME SIGNS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATION OF TYPES A & B METAL POSTS
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATION FOR RAISED REFLECTIVE PAVEMENT MARKERS
805001-01	ELECTRIC SERVICE INSTALLATION DETAILS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS & PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-05	STEEL MAST ARM ASSEMBLY & POLE 16' THROUGH 55'
878001-09	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS & FLASH BEACON INSTALL
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS WITH POST & BRACKET MOUNT
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

## LCDOT HIGHWAY STANDARDS

LC2100	DAT RUBBLE STONE OR BROKEN CONCRETE TREE WELLS
LC4100	TYPICAL MINOR ACCESS (PRIVATE ENTRANCE)
LC4101	TYPICAL MAJOR ACCESS (COMMERCIAL ENTRANCE)
LC4103	HOT-MIX ASPHALT APRON FOR AGGREGATE FIELD ENTRANCE (SPECIAL)
LC4121	MAILBOX TURNOUT ALONG CURBED ROADS
LC4201	CURB RAMPS WITH TRAFFIC SIGNAL POSTS & MAST ARMS
LC4801	TRANSITION FROM AGGREGATE SHOULDER TO B-6.24 FOR 18' OFFSET TO FACE
LC5401	TYPICAL PLACEMENT OF PRECAST END SECTIONS ON CROSS ROAD CULVERTS
LC6020	SUB-SURFACE DRAINS
LC6300	SHOULDER BREAK AT TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT
	WITH COMBINATION CURB & GUTTER
LC6310	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)
LC6600	ORNAMENTAL FENCE CLASSIC TWO RAIL (ONE MANUFACTURE'S DETAILS)
LC6650	WITNESS POST
LC7000	MODIFIED STANDARD 701011-01
LC7001	MODIFIED STANDARD 701501-03
LC7004	MODIFIED DISTRICT ONE SIDE ROAD DETAIL
LC7005	TYPICAL LANE CLOSURE 3 LANE ROAD SECTION
LC7201	TEMPORARY CONSTRUCTION INFORMATION SIGNS
LC7800	TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS
LC7801	ON STREET BICYCLE LANE PAVEMENT MARKINGS
	AND SIGNING DETAILS
LC7802	SHORT TERM PAVEMENT MARKINGS

DRY PURRIE STONE OR RECKEN CONCRETE THEE WELLS

#### **GENERAL**

- 1. ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER.
- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS". ANY REFERENCE TO "STANDARDS" THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST
- THE THICKNESSES OF HMA MIXTURES SHOWN ON THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE COURSE UPON WHICH THE HMA MATERIALS ARE PLACED.
- THE CONTRACTOR SHALL ENSURE ALL PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK.
  - > Lake County Stormwater Management Commision Watershed Development Permit

  - United States Army Corps of Engineers RP3
    Illinois Environmental Protection Agency Notice of Intent
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER, LAKE COUNTY DIVISION OF TRANSPORTATION, LAKE COUNTY PUBLIC WORKS, THE VILLAGE OF DEER PARK, THE VILLAGE OF KILDEER, UTILITY COMPANIES, SCHOOL DISTRICTS, AND LOCAL POLICE AND FIRE DEPARTMENTS AND SUBMIT A TRAFFIC CONTROL AUTHORIZATION REQUEST TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL LIMIT ANY DROP-OFF BETWEEN LANES TO 1-3/4" DURING ANY
- THE CONTRACTOR SHALL NOTIFY AS NECESSARY, ALL TESTING AGENCIES 48 HOURS IN ADVANCE OF CONSTRUCTION. FAILURE OF CONTRACTOR TO PROVIDE PROPER NOTIFICATION TIME WHICH RESULTS IN TESTING COMPANIES BEING UNABLE TO VISIT THE SITE AND PERFORM TESTING WILL CAUSE THE CONTRACTOR TO SUSPEND OPERATION TO BE TESTED UNTIL TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS. COSTS OF SUSPENSION OF WORK TO BE BORNE BY THE CONTRACTOR.
- 8. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- 9. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET TO THE SATISFACTION OF THE ENGINEER.
- PROPOSED LINES AND GRADES SHOWN ON THE CONSTRUCTION PLANS REPRESENT FINISHED GRADE ELEVATIONS, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL SAW CUT PAVEMENT AND CURB & GUTTER TO SEPARATE THE EXISTING MATERIAL TO BE REMOVED BY MEANS OF AN APPROVED SAW TO A DEPTH AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE REMOVAL ITEM INVOLVED. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 12. ALL DIMENSIONS, INCLUDING RADII, ARE GIVEN TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- SHOULD THE CONTRACTOR DESIRE TO OBTAIN WATER FOR CONSTRUCTION PURPOSES FROM THE LOCAL AREA, THE CONTRACTOR WILL BE RESPONSIBLE FOR MAKING ARRANGEMENTS THROUGH LOCAL AREA, THE CONTRACTOR WILL BE RESPONSIBLE FOR MAKING ARRANGEMENTS THROUGH THE VILLAGES OF DEER PARK AND KILLDEER. THE VILLAGES OF DEER PARK AND KILLDEER WILL INSTRUCT THE CONTRACTOR WHERE A POTABLE WATER SUPPLY FROM A HYDRANT NEAR THE WORK SITE IS LOCATED. THE VILLAGE SHALL METER THE POTABLE WATER USED BY THE CONTRACTOR AND THE CONTRACTOR WILL BE CHARGED FOR THE WATER USED AT THE VILLAGE RATES. THE CONTRACTOR IS RESPONSIBLE FOR THE TRANSPORTATION OF THE WATER TO THE SITE WHERE NEEDED. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- TEMPORARY TOILET THE CONTRACTOR SHALL PROVIDE A TEMPORARY TOILET FACILITY FOR THE USE OF ALL CONTRACTORS' PERSONNEL EMPLOYED ON THE WORK, AND SHALL MAINTAIN SAME IN PROPER SANITARY CONDITION. AT COMPLETION, THE FACILITY SHALL BE REMOVED AND THE PREMISES LEFT CLEAN. THE ENGINEER SHALL APPROVE THE LOCATION OF THE TEMPORARY TOILET. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES BID AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 15. IN ADDITION TO THE REQUIREMENTS OF THE SPECIAL PROVISION FOR CONSTRUCTION LAYOUT STAKES (ILLINOIS DEPARTMENT OF TRANSPORTATION CHECK SHEET #10), THE CONTRACTOR SHALL REESTABLISH, MONUMENT, AND TIE ALL CONTROL POINTS USED TO COMPLETE THE WORK AS SPECIFIED INCLUDING ALL PI'S, PC'S, PT'S, AND POT'S. THE TYPE OF MONUMENTATION USED WILL BE PK NAILS, IRON PIPES, RR SPIKES OR AS APPROVED BY THE ENGINEER. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF SURVEY MONUMENTS, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- WHEN REMOVING CURB AND GUTTER, PAVEMENT OR ANY OTHER STRUCTURE, THE CONTRACTOR SHALL TAKE EVERY PRECAUTION NÉCESSARY TO ENSURE THAT THERE WILL BE NO DAMAGE TO UNDERGROUND PUBLIC OR PRIVATE UTILITIES. UNDER NO CIRCUMSTANCES WILL THE USE OF A FROST BALL CONCRETE BREAKER BE ALLOWED.
- 17. PROTECTIVE COAT SHALL BE APPLIED IN ALL CASES REGARDLESS OF THE CALENDAR DATE LIMITATIONS CONTAINED IN ARTICLE 420.18. THE PROTECTIVE COATING SHALL BE APPLIED TO THE EXPOSED SURFACES OF THE PORTLAND CEMENT CONCRETE PAVEMENT, CONCRETE SIDEWALK, AND CONCRETE CURB AND GUTTER. PORTLAND CEMENT CONCRETE CURING SHALL BE LIMITED TO METHODS SPECIFIED IN ARTICLE 1020.13 (A) [1], [2]

#### GENERAL (CONTINUED)

- CONCRETE WASHOUT FACILITY SHOULD BE PROVIDED IN THE FIELD BY THE CONTRACTOR. THE COST OF CONCRETE WASHOUT FACILITY SHALL BE INCLUDED IN THE COST OF THE CONCRETE WORK ITEMS INCLUDED IN THE CONTRACT. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY. BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID
- 19. THE TRANSITION FROM THE PROPOSED CURB AND GUTTER SECTION TO A FLAT OR DEPRESSED SECTION (WHERE THERE IS NO CONNECTION TO EXISTING CURB AND GUTTER) SHALL BE ACCOMPLISHED IN APPROXIMATELY FIVE FEET, AND WILL BE PAID FOR AS "COMBINATION CONCRETE CURB AND GUTTER" OF THE TYPE BEING CONSTRUCTED. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN TH UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED
- 20. THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION, EXCEPT FOR PERIODS OF SHORT INTERRUPTION. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER NO LESS THAN 24 HOURS IN ADVANCE OF THE SHORT INTERRUPTION OF ACCESS AND/OR SERVICES AND SHALL NOTIFY THE OWNER OF THE TIME AND DURATION OF THE INTERRUPTION. THE COST TO PROVIDE ACCESS SHALL BE PAID FOR AND INCLUDED IN THE ITEMS FOR TEMPORARY ACCESS.
- 21. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING

CURB AND GUTTER JOINTS SHALL BE PLACED AS PER STANDARD 606001 AND IN ADDITION ONE INCH EXPANSION JOINTS SHALL BE PLACED EVERY 150 FT.

- ALL SUITABLE EXCESS MATERIAL FROM SEWER TRENCHES. SIDE ROADS, ENTRANCES OF OTHER NECESSARY EXCAVATIONS SHALL BE USED IN THE CONSTRUCTION OF THE IMPROVEMENT. PLACEMENT AND COMPACTION OF THIS MATERIAL SHALL BE PAID FOR AS EARTH EXCAVATION". AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 23. EXCAVATION REQUIRED TO CLEAN SIDE ROAD DITCHES OR CONSTRUCT SIDE ROAD APPROACHES SHALL BE PAID FOR AS "EARTH EXCAVATION".
- 24. EXISTING FENCE THAT IS TO REMAIN, WHICH HAS BEEN DISCONNECTED AND/OR REMOVED FOR THE CONTRACTOR'S OPERATIONS OR DAMAGED BY THE CONTRACTOR SHALL BE RECONNECTED AND/OR REPLACED IN KIND AT NO ADDITIONAL COST TO THE CONTRACT.
- 25. ALL EXCAVATION AND EMBANKMENT SHALL BE CONSTRUCTED 4 OR 12 INCHES BELOW FINISHED GRADE LINE TO ALLOW FOR TOP SOIL PLACEMENT (WHERE TOP SOIL PLACEMENT
- THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIAL NECESSARY FOR DEWATERING EXCAVATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A DEWATERING PLAN (IF NECESSARY) IN COMPLIANCE WITH NPDES REGULATIONS AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE COST OF ALL MATERIALS REQUIRED AND ALL LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 27. TEMPORARY ASPHALT RAMPS SHALL BE CONSTRUCTED AT THE DIRECTION OF ENGINEER BETWEEN BINDER AND SURFACE COURSES AS NECESSARY. THE HOT-MIX ASPHALT QUANTITY FOR INSTALLATION AND REMOVAL SHALL BE INCLUDED IN THE COST OF THE "TEMPORARY

# STORM SEWERS, STRUCTURES, AND UTILITIES

- 28. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION
- 29. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES. THE LOCATION OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR WILL BE AND THE ENGINEER DUES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATION OF SUCH UTILITIES AND EXERCISE CARE DURING HIS CONSTRUCTION OPERATIONS SO AS NOT TO DAMAGE THEM IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND APPLICABLE ARTICLES INCLUDED IN THE "STANDARD SPECIFICATIONS" INCLUDING, BUT NOT LIMITED TO, ARTICLES 105.07 AND 107.31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITIES SO THAT THEIR FACILITIES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF THE CONSTRUCTION OPERATIONS, THE CONTRACTOR RECEIVE NO ADDITIONAL COMPENSATION FOR CONSTRUCTION STAGING NECESSARY TO ACCOMMODATE UTILITY RELOCATION OR ADJUSTMENT AND/OR FOR DELAYS CAUSED BY UTILITY RELOCATION OR ADJUSTMENT.



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DESIGNED - JRR REVISED DRAWN - JRR REVISED CHECKED - RTM REVISED 10/24/2011 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SECTION COUNTY SHEETS **GENERAL NOTES** 364 02-00051-08-WR LAKE 188 CONTRACT NO. 63649 SHEET NO. 1 OF 2 SHEETS