

GENERAL NOTES

UTILITIES

- BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES (48 HOURS NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITY WITH UTILITY COMPANIES AND LOCAL AGENCIES.
- INFORMATION SHOWN ON THE SUE SHEETS IS FOR UTILITY INFORMATION PURPOSES ONLY. ROADWAY ALIGNMENT AND ROADWAY PLAN AND PROFILE SHEETS ARE TO BE FOLLOWED FOR THE APPROPRIATE ROADWAY GEOMETRY.

DRAINAGE

- BACK FILLING OF STORM SEWERS SHALL BE PERFORMED IN ACCORDANCE WITH METHOD 1 OF ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS.

2. BEFORE FINAL ACCEPTANCE OF THE PROJECT, ALL PROPOSED STORM SEWER LINES SHALL BE CLEANED AS DIRECTED BY THE ENGINEER. THE COST FOR THIS WORK IS CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE BID FOR STORM SEWERS OF THE TYPE, CLASS AND DIAMETER SPECIFIED.

3. WATER MAIN QUALITY PIPE FOR STORM SEWERS IS TO BE USED AT LOCATIONS WHERE LATERAL SEPARATION BETWEEN THE SEWER AND WATERMAIN IS LESS THAN 3.0 M (OUTSIDE TO OUTSIDE) AND THE BOTTOM OF WATER MAIN IS LESS THAN 0.45 M ABOVE THE STORM SEWER CROWN. WATER MAIN QUALITY PIPE IS TO BE USED AT LOCATIONS WHERE THE WATER MAIN CROSSES BELOW THE SEWER REGARDLESS OF VERTICAL SEPARATION.

4. EXISTING DRAINAGE STRUCTURES USED FOR STAGED CONSTRUCTION OF THE PROPOSED DRAINAGE SYSTEM, OR REMAINING IN PLACE AS PART OF THIS CONTRACT, MAY REQUIRE NEW PIPE CONNECTIONS OR THAT THE OUTLETS TO EXISTING PIPES ARE BULKHEADED WITH CLASS SI CONCRETE. THIS WORK SHALL BE PERFORMED AS INDICATED ON THE PLANS AND DIRECTED BY THE ENGINEER. THE COST OF NEW PIPE CONNECTIONS OR BULKHEADING OF EXISTING PIPE OUTLETS TO AND FROM EXISTING DRAINAGE STRUCTURES SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE UNIT PRICE BID PER METER FOR THE NEW PIPE TO BE CONNECTED, OF THE TYPE, DIAMETER AND CLASS SPECIFIED.

5. REMOVAL OF EXISTING LATERAL STORM SEWERS CONNECTING TO THE 2100MM EXISTING COMBINED SEWER UNDER BURNHAM AVENUE WILL BE DONE TO WITHIN ONE METER OF THE COMBINED SEWER. THE LAST ONE METER OF LATERAL SHALL BE LEFT IN PLACE AND ABANDONED PER 550.05 OF THE STANDARD SPECIFICATIONS.

6. FOR INSTALLATION OF PROPOSED DRAINAGE STRUCTURES IN EXISTING SEWERS A PORTION OF THE EXISTING PIPE SHALL BE CUT AND REMOVED. THE PROPOSED STRUCTURE SHALL BE PROVIDED WITH ADEQUATELY SIZED OPENINGS SUCH THAT THE EXISTING PIPE MAY BE CONNECTED AT ITS EXISTING INVERT ELEVATIONS. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR THE TYPE AND KIND OF DRAINAGE STRUCTURE TO BE INSTALLED.

7. WHERE THE ADJACENT SHOULDER OR PAVEMENT THICKNESS EXCEEDS THAT OF THE NEW FRAME, THE CONTRACTOR SHALL INSTALL THE CATCH BASIN OR DRAINAGE STRUCTURE LID FLUSH OR LOWER THAN THE BOTTOM OF THE ADJACENT SHOULDER OR PAVEMENT AND ADJUST THE FRAME AND LID IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLE 602 OF THE STANDARD SPECIFICATIONS.

8. IN ADDITION TO THE REQUIREMENTS OF ARTICLE 602.15 OF THE STANDARD SPECIFICATIONS, THE CONTRACT UNIT PRICE FOR THE DRAINAGE STRUCTURE SHALL INCLUDE THE SAND CUSHION, FURNISHING AND INSTALLING STEPS WHEN REQUIRED, ADJUSTING RINGS WHEN REQUIRED AND FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL.

9. FOR PROPOSED PIPE CONNECTIONS TO EXISTING PIPES OR STRUCTURES, THE REMOVAL OF TEMPORARY STORM SEWER PLUGS AND CONCRETE OR BRICK MASONRY BULKHEADS FROM THE EXISTING PIPES OR EXISTING STRUCTURES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER METER FOR THE TYPE, MATERIAL, DIAMETER AND CLASS OF PROPOSED PIPE.

10. REMOVAL OF MANHOLES AND CATCH BASINS, INCLUDING ALL EXISTING DRAINAGE STRUCTURES UNDER THE EXISTING CENTRAL MEDIAN OF I-80 OR ELSEWHERE ON THE I-80/I-94 EXPRESSWAY, SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "REMOVING MANHOLES", REGARDLESS OF SHAPE, DEPTH OR SIZE OF THE STRUCTURE. THIS NOTE SHALL NOT APPLY TO LOCAL ROADS AND BURNHAM AVENUE.

11. ADJUSTMENT OF CATCH BASINS OF CIRCULAR OR RECTANGULAR FOOTPRINT AND OF ALL SIZES, SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "CATCH BASINS TO BE ADJUSTED", EXCEPT DRAINAGE STRUCTURES OF 2.4M x 0.9M AND 2.4M x 1.5M, WHICH WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "DRAINAGE STRUCTURE TO BE ADJUSTED". WHEN A CATCH BASIN OR DRAINAGE STRUCTURE HAS MULTIPLE CASTINGS, THE COST OF ADJUSTING ALL CASTINGS TO FINISHED PAVEMENT ELEVATION SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR THE RESPECTIVE PAY ITEM.

12. TOP OF GRATE ELEVATIONS FOR EXISTING STRUCTURES SHOWN ON THE PLANS WERE DETERMINED BY COMPUTER TERRAIN MODELING. THE RESIDENT ENGINEER MAY REVISE THE TOP OF GRATE ELEVATIONS AT THE TIME OF CONSTRUCTION BASED ON FIELD CONDITIONS.

13. INVERT ELEVATIONS FOR EXISTING PIPES HAVE BEEN SHOWN ON THE PLANS WHEN SURVEY INFORMATION WAS AVAILABLE. INVERT ELEVATIONS FOR EXISTING PIPES SHOULD BE DETERMINED OR VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION.

14. DRAINAGE STRUCTURES AND SEWERS REQUIRING CLEANING ARE INDICATED ON THE EROSION CONTROL SHEETS.

15. PROPOSED STRUCTURES WITHIN THE SUB-GRADE AREA MAY TEMPORARILY BE PLATED (WITHOUT THE FRAME AND GRATE OR FRAME AND LID) TO FACILITATE THE CONTRACTOR'S OPERATIONS. PLATES SHALL MEET THE APPROVAL OF THE ENGINEER. THE COST FOR MATERIALS, INSTALLATION, REMOVAL OF THE PLATES, AND SUBSEQUENT CONSTRUCTION OF THE STRUCTURE TO ITS FINISHED HEIGHT SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR THE DRAINAGE STRUCTURE.

16. STORM SEWER REMOVAL OF ELLIPTICAL SECTION PIPE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER METER FOR "STORM SEWER REMOVAL", OF THE EQUIVALENT ROUND SIZE DIAMETER FOR THE PIPE.

17. REMOVAL OF COMBINED OR SANITARY SEWERS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER METER FOR "STORM SEWER REMOVAL", OF THE DIAMETER SPECIFIED.

18. REMOVAL, ADJUSTMENT AND RECONSTRUCTION OF COMBINED OR SANITARY MANHOLES WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "REMOVING MANHOLES", "MANHOLES TO BE ADJUSTED" AND "MANHOLES TO BE RECONSTRUCTED", RESPECTIVELY.

19. ABANDONED STORM SEWER PIPES SHALL BE PLUGGED ACCORDING TO ARTICLE 550.05 OF THE STANDARD SPECIFICATION, EXCEPT THAT ONLY CLASS SI CONCRETE SHALL BE USED. NO ADDITIONAL PAYMENT SHALL BE OFFERED FOR THE USE OF STRICTLY CLASS SI CONCRETE.

DRAINAGE NOTES FOR MWRD COMBINED SEWER NETWORKS

THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055).

ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.

ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO:

PIPE MATERIAL SPEC.	JOINT SPEC.	ABS COMPOSITE/TRUSS PIPE
VITRIFIED CLAY PIPE		8"-15" DIA.
VCP C-700	C-425	ABS D-2680
VCP (NO-BEL) C-700		
JOINT	C-425	PVC GRAVITY SEWER PIPE
COLLAR	D-1784	6"-15" DIA. SDR 26
		D-3034
CONCRETE PIPE C-14	C-443	18"-27" DIA. F/DY-46
RCP C-76	C-443	F-679
ACP C-428	D-1869	
		D-3212 OR D-2855
ABS SEWER PIPE		CISP A-74
SOLID WALL 6" DIA. SDR 23.5		DIP A-21.51
ABS D-2751	D-2751	C-564
		A-21.11

ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE 6 MM TO 25 MM IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO ONE FOURTH THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN 100 MM NOR MORE THAN 200 MM. MATERIAL SHALL BE CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 300 MM ABOVE THE TOP OF THE PIPE WHEN USING PVC.

"BAND SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR MATERIALS.

WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:

- CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
- REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
- NEATLY CORE A HOLE IN THE WALL OF THE SEWER. WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE. SEE DRAINAGE DETAILS.

WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 460 MM. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 3.1 METERS BETWEEN SANITARY/COMBINED SEWERS AND WATERMANS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 460 MM VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 460 MM VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATERMAIN, THE SEWER SHALL BE CONSTRUCTED TO WATERMAIN STANDARDS.

ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.

ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 1.2 METERS, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.

THE CONSTRUCTION OF ROADSIDE DRAINAGE SWALES MUST NOT INTERCEPT GROUNDWATER LEVELS. ROADSIDE SWALES ARE CONSTRUCTED WITHIN THE INTERCHANGE AREAS TO ACCEPT ROADWAY DRAINAGE ONLY. THE TOPSOIL IN THE PERMANENT CONSTRUCTION ZONES WILL BE SEGREGATED FOR POTENTIAL RE-USE WITHIN THE TEMPORARY WORK AREAS AFTER CONSTRUCTION IS COMPLETE.

EROSION AND SEDIMENT CONTROL

SEE GENERAL NOTES ON SHEETS 184 AND 185.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	631	4
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• (2425 & 2626) R-2 CONTRACT NO. 62111

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 80/94 (KINGERY EXPRESSWAY)
 EB & WB INSIDE LANES (MAINLINE) CONSTRUCTION
 COOK COUNTY

GENERAL NOTES II

SCALE: NONE
 DATE: 8/22/05

DRAWN BY: JFS
 CHECKED BY: RUM

TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS