

**A. GENERAL**

- 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 I.D.O.T. STANDARD.
- THE PAVEMENT ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OF PROPOSED SURFACE COURSE OR P.C.C. PAVEMENT, UNLESS OTHERWISE INDICATED.
- THE THICKNESSES OF HOT MIX ASPHALT MIXTURES SHOWN ON THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE COURSE UPON WHICH THE HOT MIX ASPHALT MATERIALS ARE PLACED.
- THE CONTRACTOR SHALL ENSURE ALL PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF EVANSTON (847) 866-2924 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL LIMIT ANY DROP-OFF BETWEEN LANES TO 2" DURING ANY OVERNIGHT PERIOD.
- THE CONTRACTOR SHALL NOTIFY AS NECESSARY, ALL TESTING AGENCIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION. FAILURE OF CONTRACTOR TO ALLOW 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.
- ALL ELEVATIONS SHOWN ON THESE PLANS ARE ON CITY OF EVANSTON DATUM. THE CITY OF EVANSTON DATUM IS NOT THE SAME AS THE CITY OF CHICAGO. THE CONVERSION FACTOR FROM THE EVANSTON DATUM TO USGS IS 579.70.
- 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.
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT SOME QUANTITIES ARE GIVEN IN BOTH SUMMARY FORM AND ON THE PLAN SHEETS. CARE SHOULD BE TAKEN TO AVOID DUPLICATION OF QUANTITIES.
- ALL UNBALLASTED TYPE I AND TYPE II BARRICADES SHALL HAVE TWO SANDBAGS ON THE BOTTOM RAIL. ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR (4) SANDBAGS PER BARRICADES.
- CONSTRUCTION ACTIVITIES MAY OCCUR BETWEEN 7:00AM AND 4:00PM MONDAY THROUGH FRIDAY. WRITTEN PERMISSION FROM THE CITY ENGINEER OR SENIOR ENGINEER IS REQUIRED FOR SATURDAY WORK AT LEAST 24 HOURS IN ADVANCE. CONSTRUCTION ACTIVITIES ON SUNDAY ARE PROHIBITED. NO WORK WILL BE PERFORMED ON STATE OF ILLINOIS OBSERVED HOLIDAYS. CONSTRUCTION ACTIVITIES ARE IDENTIFIED AS THE OPERATION OF HEAVY EQUIPMENT, INCLUDING BUT NOT LIMITED TO THE WARMING UP OF ANY PIECE OF EQUIPMENT OR TURNING ON ENGINES. CONSTRUCTION ACTIVITIES SHALL NOT BEGIN BEFORE 7:00AM.

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PLOT DATE = #DATE#		DATE - 04/09/2010	REVISED -

- ALL FRAMES WITH CLOSED LIDS TO BE FURNISHED AS PART OF THIS CONTRACT FOR CONSTRUCTION, ADJUSTMENT OR RECONSTRUCTION OF ANY VALVE VAULT, MANHOLE, OR CATCH BASIN SHALL HAVE THE WORD "WATER", "SANITARY", OR "STORM", AS APPROPRIATE, CAST INTO THE LID. FRAMES AND GRATES FURNISHED UNDER THIS CONTRACT SHALL BE GRAY IRON CASTINGS CONFORMING TO THE SPECIFICATIONS FOR GRAY IRON CASTINGS, ASTM A-48, CLASS 35. CIRCULAR LIDS FOR MANHOLES AND VAULTS SHALL HAVE LARGE (2.5 INCH NOMINAL) PICK HOLES. CIRCULAR LIDS FOR CLOSING CATCH BASINS SHALL HAVE LARGE (2.5 INCH NOMINAL) PICK HOLES.
- FRAMES AND GRATES ON STRUCTURES SHALL BE AS FOLLOWS:  
EXISTING INLETS AND CATCH BASINS; NEW CATCH BASINS AND INLETS ON COMBINED SEWER SYSTEM.  
EAST JORDAN IRON WORKS 1050, TYPE M1 GRATE WITH LARGE (2.5 INCH NOMINAL) PICK HOLES OR EQUAL.  
NEW CATCH BASINS AND TYPE A INLETS FOR RELIEF SEWER WORK (CB & INL):  
EAST JORDAN IRON WORKS 7045, TYPE M1 GRATE OR EQUAL.  
MANHOLES:  
EAST JORDAN IRON WORKS 1050 FRAME AND 1020 EXTRA HEAVY DUTY COVER WITH LARGE (2.5 INCH NOMINAL) PICK HOLES OR EQUAL.
- FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. WHEN LOCATED WITHIN THE CURB LINE, FRAME ELEVATION GIVEN REFLECT THE EDGE OF PAVEMENT ELEVATIONS. ALL OTHER FRAME ELEVATIONS ARE GIVEN AT THE CENTER. FRAMES ON ALL NEW STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE COST.
- HOT MIX ASPHALT OR P.C. CONCRETE PAVEMENT REMOVED DUE TO STORM SEWER OR WATER MAIN CROSSINGS SHALL NOT BE LEFT IN GRAVEL OVERNIGHT IF OPEN TO TRAFFIC. THIS INCLUDES THE MAIN ROADS AND SIDE STREETS. "HOT-MIX ASPHALT FOR PATCHING POTHoles (HOT-MIX)" MAY BE REQUIRED BY THE ENGINEER TO BE USED IN LIEU OF IMMEDIATE PAVEMENT REPLACEMENT.
- ANY DEWATERING OF SEWER AND WATER MAIN TRENCHES AS WELL AS TEMPORARY SHEETING OR BRACING THAT MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE CONSIDERED INCLUDED IN THE COST OF TRENCH BACKFILL. IN THE EVENT THAT SOFT MATERIALS ARE ENCOUNTERED IN SEWER CONSTRUCTION, THE CONTRACTOR SHALL, UPON THE APPROVAL OF THE ENGINEER, OVER EXCAVATE TO A DEPTH OF 12 INCHES BELOW THE BOTTOM OF THE PIPE AND BACKFILL WITH COMPACTED CRUSHED STONE, PROPERLY FORMED TO FIT THE BOTTOM OF THE PIPE.
- ALL EXISTING FIRE HYDRANTS, FRAMES, GRATES, AND LIDS THAT ARE BEING REPLACED REMAIN THE PROPERTY OF THE CITY OF EVANSTON. THE CONTRACTOR SHALL DELIVER ALL REPLACED FIRE HYDRANTS, FRAMES, GRATES AND LIDS TO THE PUBLIC WORKS FACILITY. SUCH DELIVERY SHALL BE CONSIDERED INCLUDED IN THE COST OF FIREHYDRANTS TO BE RELOCATED, FRAMES AND GRATES, OR FRAMES AND LIDS.
- THE ENDS OF EXISTING DRAINAGE LINES WHICH ARE NOT TO BE INCORPORATED IN TO THE PROPOSED IMPROVEMENT (AS DETERMINED BY THE ENGINEER) SHALL BE SEALED WITH 2 FOOT LONG NON-SHRINK CONCRETE OR MORTAR PLUG TO THE SATISFACTION OF THE ENGINEER. THE COST OF THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF REMOVING INLETS, REMOVING CATCH BASINS, OR STORM SEWER REMOVAL.
- ADJUSTMENT RINGS, MAXIMUM OF 11" IN HEIGHT, WILL BE ALLOWED IN THE ADJUSTMENT OF CATCH BASIN, MANHOLE, INLET AND VALVE VAULT STRUCTURES. COMMON BRICK AND CAST IRON ADJUSTING RINGS WILL NOT BE ALLOWED. ALL TYPE B GRATES ON RESTRICTED DEPTH DRAINAGE STRUCTURES SHALL BE ADJUSTED TO PLAN GRADE WITH 4" MINIMUM ADJUSTMENT RINGS. THE RINGS SHALL BE INCLUDED IN THE COST OF THE NEW INLET OR CATCH BASIN.
- THE CONTRACTOR SHALL BE AWARE THAT THERE ARE EXISTING LAWN SPRINKLER SYSTEMS LOCATED ALONG SHERIDAN ROAD. IF A SPRINKLER SYSTEM IS LOCATED BETWEEN THE EXISTING SIDEWALK AND THE PROPOSED BACK OF CURB, PROTECTION OF SYSTEM SHALL BE CONSIDERED INCLUDED IN THE COST OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.
- IF A LAWN SPRINKLER SYSTEM IS LOCATED BEYOND THE EXISTING SIDEWALK AND IS DAMAGED DURING CONSTRUCTION, IT SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. REPLACEMENT SYSTEMS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK INVOLVING THE SPRINKLER SYSTEMS WITH THE OWNER. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL OF ANY RELOCATIONS OR REPAIRS FROM THE OWNERS PRIOR TO FINAL PAYMENT.

STATE OF ILLINOIS	SHERIDAN ROAD / FOREST AVENUE
DEPARTMENT OF TRANSPORTATION	GENERAL NOTES
NOT TO SCALE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

- THE CONTRACTOR WILL BE REQUIRED TO DISPOSE OF ALL SIDEWALK, CURB AND GUTTER, PAVEMENT, AND ALL OTHER MATERIAL EXCAVATED OR REMOVED DUE TO CONSTRUCTION OPERATIONS, AT HIS EXPENSE. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE ON THE DAY IT IS EXCAVATED.
  - WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK 5" SIDEWALK CROSS SLOPE THRU THE DRIVEWAY AREA SHALL BE A MAXIMUM OF 2%.
  - WHEN DIRECTED BY THE ENGINEER, SUPPLEMENTAL WATERING SHALL BE APPLIED TO ALL SODDED AREAS PRIOR TO FINAL ACCEPTANCE AT A RATE SPECIFIED BY THE ENGINEER AND IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS" AND SPECIAL PROVISIONS.
  - ALL SUITABLE EXCESS MATERIAL FROM SEWER TRENCHES AND NECESSARY EXCAVATIONS MAY BE USED IN THE CONSTRUCTION OF THE IMPROVEMENT AFTER APPROVAL BY THE TESTING AGENCY. PLACEMENT AND COMPACTION OF THIS MATERIAL SHALL BE CONSIDERED AS INCLUDED IN THE COST OF "TRENCH BACKFILL", AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
  - EXCAVATION REQUIRED TO CLEAN SIDE ROAD DITCHES OR CONSTRUCT SIDE ROAD APPROACHES SHALL BE CONSIDERED INCLUDED IN THE COST OF "EARTH EXCAVATION".
  - 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.
  - ALL EXCAVATION AND EMBANKMENT SHALL BE CONSTRUCTED FOUR (4) INCHES BELOW FINISHED GRADE LINE TO ALLOW FOR TOP SOIL PLACEMENT AS DESIGNATED IN THE PLANS FOR THIS CONTRACT.
  - ALL EXISTING GRASS AREAS DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE SODDED AS DIRECTED BY THE ENGINEER.
  - THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE OR DESTRUCTION OF THE CITY OF EVANSTON BENCHMARKS ALONG SHERIDAN ROAD.
- E. DRIVEWAYS AND ENTRANCES**
- ALL EXCAVATION OF DRIVEWAYS SHALL BE PAID FOR AS "DRIVEWAY PAVEMENT REMOVAL".
  - THE CONTRACTOR SHALL CONSTRUCT ALL COMMERCIAL AND PRIVATE DRIVEWAYS IN ACCORDANCE WITH THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
  - ALL DRIVEWAYS SHALL BE RECONSTRUCTED IN KIND IN ACCORDANCE WITH THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
- F. SIGNS**
- THE CONTRACTOR WILL BE REQUIRED TO RELOCATE OR REMOVE AND REPLACE SIGNS THAT INTERFERE WITH HIS CONSTRUCTION OPERATIONS, AND TO TEMPORARILY RESET ALL SUCH SIGNS DURING CONSTRUCTION OPERATIONS IN CONFORMANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL BE CONSIDERED AS INCLUDED IN THE COST OF REMOVING AND RESETTING STREET SIGNS.
- ALL WORK INVOLVING SIGNS SHALL BE GOVERNED BY THE FOLLOWING REQUIREMENTS AND PAID FOR AS REMOVING AND RESETTING STREET SIGNS:
- SIGNS SHALL NOT BE MOVED UNTIL THE PROGRESS OF WORK REQUIRES IT.
  - EVERY SIGN REMOVED MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER, AND BE VISIBLE TO THE TRAFFIC FOR WHICH IT IS INTENDED. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING.
  - ALL SIGNS SHALL BE RE-ERECTED IN PERMANENT LOCATIONS AS THE ROADWAY IS COMPLETED. HORIZONTAL LOCATIONS FROM THE EDGES OF PAVEMENT SHALL BE AS DESIGNATED BY THE ENGINEER.
  - ALL UNUSED SIGNS SHALL BE RETURNED TO THE CITY.
  - LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS IN ORDER TO MAINTAIN PROPER SIGN ELEVATIONS. THESE POSTS SHALL BE CONSIDERED AS INCLUDED IN THE COST OF REMOVING AND RESETTING STREET SIGNS.
- H. ADDITIONAL NOTES**
- THE STORAGE OF EQUIPMENT AND/OR MATERIALS WITHIN THE PARKWAYS SHALL REQUIRE PRIOR APPROVAL OF THE ENGINEER.
  - THE CONTRACTOR MUST OBTAIN A FIRE HYDRANT PERMIT FROM THE CITY IN ORDER TO OBTAIN ACCESS TO CITY WATER. FOR INFORMATION CALL (847)866-2942.
  - A HIGH PRESSURE WATER SPRAY OR "HYDRO-BLAST" SHALL BE USED DURING PAVEMENT MARKING REMOVAL. THE PRESSURE AT THE NOZZLE SHALL BE APPROXIMATELY 25,000 PSI (172,000 KPA), WITH MAXIMUM FLOW RATE OF 15 GAL/MIN (56 L/MIN). THE NOZZLE SHALL BE IN CLOSE PROXIMITY TO THE PAVEMENT SURFACE.
- I. POINTS OF CONTACT**
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| CITY OF EVANSTON<br>TRANSPORTATION & ENGINEERING<br>DIVISION<br>MR. PAUL SCHNEIDER, P.E.<br>DIRECTOR OF TRANSPORTATION<br>2100 RIDGE AVENUE<br>EVANSTON, IL 60201<br>PH: (847) 866-8291<br>FAX: (847) 866-2964 | CITY OF EVANSTON<br>TRANSPORTATION & ENGINEERING<br>DIVISION<br>MR. SAT NAGAR, P.E.<br>SENIOR ENGINEER<br>2100 RIDGE AVENUE<br>EVANSTON, IL 60201<br>PH: (847) 866-2967<br>FAX: (847) 866-2964 |
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- NOTE: THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER AT 773.685.8386 AT LEAST (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.
  - THE ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
  - THE "BITUMINOUS PATCHING MIXTURE (GROUP II)" IS A COLD MIX AND SHALL BE USED FOR PATCHING POTHoles WHEN HOT MIX ASPHALT IS NOT AVAILABLE.

**PIPE MATERIAL SPECIFICATION**

WHERE POLYVINYL CHLORIDE PIPE (P.V.C.) IS CALLED FOR ON THE CONTRACT PLANS, IT SHALL BE SDR 26 IN CONFORMANCE WITH:

**6" TO 15" PIPE ASTM D-3034**  
**18" OR LARGER PIPE ASTM F-679**

WHERE DUCTILE IRON PIPE (D.I.P.) IS CALLED FOR ON THE CONTRACT PLANS, IT SHALL BE:

**FOR SEWER: CLASS 50 IN CONFORMANCE WITH:**  
**ANSI A-21.51 PIPE**  
**ANSI A-21.11 JOINT**  
**FOR WATER: CLASS 52 IN CONFORMANCE WITH:**  
**Mechanical Joints; AWWA C-153**  
**Push-On Joints; AWWA C-153**

WHERE EXTRA STRENGTH CLAY PIPE (E.S.V.C.P.) IS CALLED FOR ON THE CONTRACT PLANS, IT SHALL BE IN CONFORMANCE WITH:

**ASTM C-700 PIPE**  
**ASTM C-425 JOINT**

**M.W.R.D. TYPICAL GENERAL NOTES**

1. The MWRD Local Sewer Systems Section Field Office must be notified at least two (2) working days prior to the commencement of work (call 708-588-4055).

2. ELEVATION FROM EVANSTON DATUM=579.70 FEET ABOVE MEAN TIDE AT NEW YORK

- All floor drains shall discharge to the sanitary sewer system. This project has "no floor drain".
- All downspouts and footing drains shall discharge to the storm sewer system. ("For City of Evanston Requirements: discharge to grade"). This project has "no footing drains and downspouts".
- All sanitary sewer pipes materials and joints (and storm sewer pipe materials and joints in a combined sewer area) shall conform to:

Pipe Material Spec.	Joint Spec	Pipe Material Spec.	Joint Spec
<b>Verified Clay Pipe</b> VCP C-700 VCP (No-Bell) C-700 Joint Collar	C-425 C-425 D-1784	<b>ABS Composite/Truss Pipe</b> 8'-15" dia. ABS D-2680	D-2680
<b>Concrete Pipe C-14</b> RCP C-76 ACP C-428	C-443 C-443 D-1869	<b>PVC Gravity Sewer Pipe</b> 6'-15" dia. SDR26 D-3034	D-3212 or D-2855
<b>ABS Sewer Pipe</b> Solid wall dia. SDR 23.50 ABS D-2751	D-2751	18"-27" dia. F/dy=46 E-679 CISP A-74 DIP A-21.51	D-3212 or D-2855 C-564 A-21.11

(Note: The District has approved less common pipe materials on a qualified basis in addition to those above. Please contact the District in considering using pipe not listed above.)

- All sanitary sewer construction, and also storm sewer construction in combined sewer areas, requires stone bedding with stone 1/4" to 1" in size, with minimum thickness equal to 1/4 the outside diameter of the sewer pipe, but not less than four (4) inches nor more than eight (8) inches. Material shall be CA-11 or CA-13 and shall be extended at least 12" above the top of the pipe when using PVC.
- "Band Seal" or similar flexible-type couplings shall be used in the connection of sewer pipe of dissimilar materials. ("For City of Evanston Requirements: "Band Seal Flexible couplings as manufactured by H&S Rubber Company or equal shall be used for connections of new pipe to existing pipe, and where dissimilar pipe and joint materials are encountered. Couplings shall be a minimum of 8-inches long for connections 4-inch through 8-inch pipe and a minimum of 12-inches long for connections on larger pipes (These are special order items).")
- 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 ("Shower-Tap" machine or similar) and proper installation of hub-wye 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.
  - 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.
- Whenever a sanitary/combined sewer crosses under a water main, the minimum vertical distance from the top of the sewer to the bottom of the water main shall be 18 inches. Furthermore, a minimum horizontal distance of 10 feet between sanitary/combined sewers and water mains shall be maintained unless: the sewer is laid in a separate trench, keeping a minimum 18" vertical separation; or the sewer is laid in the same trench with the water main located at the opposite side on a bench of undisturbed earth, keeping a minimum 18" vertical separation. If either the vertical or horizontal distances described above can not be maintained, or the sewer crosses above the water main, the sewer shall be constructed to water main 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 48 inches, and shall be cast in place or pre-cast reinforced concrete.
- All abandoned sewers shall be plugged with two foot (2') long non-shrink concrete or mortar plugs at both ends.
- All inlet and outlet pipes of sanitary sewer manholes and other underground structures (and in combined sewer areas, also all combined storm sewer manholes, catch basins, inlets, and underground detention storage structures) shall be joined with watertight flexible rubber connections, conforming to A.S.T.M. C-443 and C-923 with stainless steel band.
- DRAIN TILES OR PERFORATED PIPES ENCOUNTERED DURING CONSTRUCTION SHALL BE PLUGGED OR REMOVED AND SHALL NOT BE CONNECTED OR TRIBUTARY TO SEWER SYSTEM/S THAT DISCHARGE TO MWRD. THIS WORK SHALL BE PAID FOR AS STORM SEWER REMOVAL OF THE SIZE ENCOUNTERED.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2865	08-00250-02-PV	COOK	79	3
CONTRACT NO. 63417				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				