

# GENERAL CONSTRUCTION NOTES PAVING AND STORM SEWERS

## SPECIFICATIONS

THE LATEST EDITIONS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", PREPARED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" SHALL GOVERN ALL WORK ASSOCIATED WITH THIS PROJECT. THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" MAY GOVERN OTHER WORK ON THIS PROJECT AS INDICATED BY REFERENCE.

## CARE IN EXCAVATION

CARE SHALL BE EXERCISED BY THE CONTRACTOR IN CARRYING OUT EARTH AND/OR TRENCHING OPERATIONS SO THAT LOCAL UTILITY SERVICES, WATER VALVES, MANHOLES, CATCH BASINS, INLETS, BUFFALO BOXES, AND OTHER STRUCTURES ARE NOT DAMAGED OR REMOVED. ALL DAMAGE DONE BY THE CONTRACTOR, WHETHER THE STRUCTURE OR SERVICE IS VISIBLE AT THE GROUND SURFACE OR NOT, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AS REQUIRED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED IN ACCORDANCE WITH ARTICLES 105.07 AND 107.20.

## NOTIFICATION OF PUBLIC UTILITIES

PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OFFICIALS OF THE PUBLIC WORKS DEPARTMENT OF THE LOCAL MUNICIPALITY, J.U.L.I.E. AT 1-800-892-0123 OR 811, AND OTHER PUBLIC AND PRIVATE UTILITIES SO THAT ARRANGEMENTS CAN BE MADE TO LOCATE THEIR VARIOUS FACILITIES WITHIN THE LIMITS OF CONSTRUCTION UNDER THIS CONTRACT, AS WELL AS TO PROVIDE ADEQUATE PROTECTION AND INSPECTION THEREOF. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES IN THE FIELD.

## TRAFFIC CONTROL DEVICES

BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 107.14 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". ADEQUATE LIGHTING SHALL BE MAINTAINED FROM DUSK TO DAWN AT ALL LOCATIONS WHERE CONSTRUCTION OPERATIONS WARRANT, OR AS DESIGNATED BY THE ENGINEER.

## PROTECTION OF SIGNS AND PROPERTY

ALL TRAFFIC SIGNS, STREET SIGNS, ETC., THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AND PLACED AT NEW LOCATIONS AS DESIGNATED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE COMBINATION CURB AND GUTTER REMOVAL, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. IN ADDITION, ALL MAIL BOXES THAT INTERFERE WITH CONSTRUCTION SHALL BE SIMILARLY RELOCATED AT NO ADDITIONAL COST IN ACCORDANCE WITH ARTICLES 107.20 AND 107.21 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

## SUPERINTENDENCE

SPECIAL ATTENTION IS DRAWN TO ARTICLE 105.06 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WHICH REQUIRES THE CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES, IRRESPECTIVE OF THE AMOUNT OF WORK SUBLET. THE SUPERINTENDENT SHALL BE CAPABLE OF READING AND UNDERSTANDING THE PLANS AND SPECIFICATIONS, SHALL HAVE FULL AUTHORITY TO EXECUTE ORDERS TO EXPEDITE THE PROJECT AND SHALL BE RESPONSIBLE FOR SCHEDULING AND HAVING CONTROL OF ALL THE WORK AS THE AGENT OF THE GENERAL CONTRACTOR. FAILURE TO COMPLY WITH THIS PROVISION WILL RESULT IN A SUSPENSION OF WORK AS PROVIDED IN ARTICLE 108.07.

## SAWING EXISTING IMPROVEMENTS

ALL PERMANENT TYPE PAVEMENTS OR OTHER PERMANENT IMPROVEMENTS WHICH ABUT THE PROPOSED IMPROVEMENT AND MUST BE REMOVED, SHALL BE SAWED AS DIRECTED PRIOR TO REMOVAL. ALL ITEMS SO REMOVED SHALL BE REPLACED WITH SIMILAR CONSTRUCTION MATERIALS TO THEIR ORIGINAL CONDITION OR BETTER. PAYMENT FOR SAWING SHALL BE INCLUDED IN THE COST FOR THE REMOVAL OF EACH ITEM, AND REPLACEMENT WILL BE PAID FOR UNDER THE RESPECTIVE ITEMS IN THE CONTRACT UNLESS OTHERWISE INDICATED. SAWCUTTING FOR PATCHES WILL BE INCLUDED IN THE COST OF THE PATCHING ITEM.

## PROJECT SAFETY

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

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

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

THE CONTRACTOR SHALL COMPLY WITH AND OBSERVE THE RULES AND REGULATIONS OF O.S.H.A. AND APPROPRIATE AUTHORITIES REGARDING SAFETY PROVISIONS. THE CONTRACTOR, ENGINEER, AND OWNER SHALL EACH BE RESPONSIBLE FOR THEIR OWN RESPECTIVE AGENTS AND EMPLOYEES.

THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS, OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS WORK IN ACCORDANCE WITH THE DOCUMENTS AND SPECIFICATIONS.

## SPECIAL PROJECT NOTES

- DRIVEWAY REPAIR BETWEEN THE CURB AND THE PROPERTY LINE SHALL BE COMPLETED PER THE TOWN ORDINANCE. THE INSTALLATION IS DETAILED IN THESE PLANS AND IN THE SPECIAL PROVISIONS.
- ALL SAWCUTS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS FOR WHICH THE WORK APPLIES.
- ALL EXISTING FRAMES AND LIDS THAT ARE TO BE REPLACED (AS DIRECTED BY THE ENGINEER), SHALL BE SALVAGED TO THE CONTRACTOR.
- ALL METERS, VALVES, AND BUFFALO BOXES WITHIN SIDEWALK AND DRIVEWAY REMOVAL LIMITS SHALL BE ADJUSTED.
- ALL AT&T MANHOLES TO BE ADJUSTED (BY OTHERS).
- MEET EXISTING CURB AND FLOW LINE ELEVATIONS AT SIDE STREET APPROACHES.
- ALL CURBLINE INLETS AND CATCH BASINS ON THIS PROJECT FLOW TO A COMBINED SEWER. ALL WORK SHALL CONFORM TO ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (M.W.R.D.) STANDARDS. THE FINAL OUT FLOWING PIPE FROM ANY INLET OR CATCH BASIN STRUCTURE THAT WILL FLOW TO THE COMBINED SEWER SHALL BE TRAPPED AS DETAILED ON SHEET 5. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CATCH BASIN REPLACEMENT.
- ABANDONED STORM SEWER PIPE SHALL BE PLUGGED WITH CONCRETE MORTAR. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE REPLACEMENT STRUCTURE.
- PROPOSED PORTLAND CEMENT CONCRETE SURFACE REMOVAL, VARIABLE DEPTH, SHALL BE MEASURED IN PLACE AT THE TIME OF CONSTRUCTION. DURING CONSTRUCTION OF THE HOT-MIX SURFACE REMOVAL, 3 INCH, PAY ITEM, A SMALL AMOUNT OF PCC BASE COURSE IS EXPECTED TO BE ENCOUNTERED. 1,200 SY HAS BEEN ESTIMATED FOR THIS WORK FOR BIDDING. EXACT AREA WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.

# MWRDGC NOTES

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO  
LOCAL SEWER SYSTEMS SECTION

## TYPICAL GENERAL NOTES

- 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).
- Elevation datum is U.S.G.S.  
Conversion equation is N/A.
- All floor drains shall discharge to the sanitary sewer system. (NOT APPLICABLE)
- All downspouts and footing drains shall discharge to the storm sewer system. (NOT APPLICABLE)
- 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.

<u>Vitrified Clay Pipe</u>	
VCP (C-700)	C-425
VCP (No-Bel)(C-700)	C-425
Joint	D-1784
Collar	
<u>Concrete Pipe (C-14)</u>	C-443
RCP (C-76)	C-443
ACP (C-428)	D-1869

<u>ABS Sewer Pipe</u>	
Solid Wall 6" dia. SDR 23.5	D-2751
ABS D-2751	

<u>ABS Composite/Truss Pipe</u>	
8" - 15" dia.	D-2680
ABS D-2680	

<u>PVC Gravity Sewer Pipe</u>	
6" - 15" dia. SDR 26	D-3139
D-2241	D-3139
AWWA-C-900	D-3139

18" - 27" dia. F/dy=46	D-3212 or
F-679	D-2855

CISP A-74	C-564
DIP A-21.51	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 if considering using pipe not listed above.)

- All sanitary sewer construction (and storm sewer construction in combined sewer areas), requires stone bedding with stone 1/4" to 1" in size, with minimum bedding 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. Materials 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.
- 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.
- Wherever a sanitary/combined sewer crosses under a watermain, 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 watermain 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 a watermain 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 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 also 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. Resilient connectors, conforming to ASTM C-923, shall be used between manhole and pipe(s) for all sanitary and combined sewer structures.

# SUMMARY OF QUANTITIES

Specialty Item	Special Provision	Item No	Description	Unit	Quantity	Construction Code 1000
		35300300	PORTLAND CEMENT CONCRETE BASE COURSE 8"	SQ YD	200	
		40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	200	
		40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	5	
		40600300	AGGREGATE (PRIME COAT)	TON	20	
		40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	5	
		40600535	LEVELING BINDER (HAND METHOD), N70	TON	15	
		40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	550	
		40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	125	
	SP	40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	210	
		40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1,000	
		40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	10	
		42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	650	
		42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	17,000	
		44000100	PAVEMENT REMOVAL	SQ YD	200	
		44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	8,000	
		44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	650	
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,800	
		44000600	SIDEWALK REMOVAL	SQ FT	17,000	
		44002216	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4"	SQ YD	900	
		44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	200	
		44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	400	
		44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	300	
	SP	44300300	AREA REFLECTIVE CRACK CONTROL TREATMENT, SYSTEM A	SQ YD	6,400	
	SP	56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	12	
	SP	60202805	CATCH BASINS, TYPE A, SPECIAL, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	
	SP	60238900	INLETS, TYPE A, SPECIAL, TYPE 1 FRAME, OPEN LID	EACH	1	
		60250200	CATCH BASINS TO BE ADJUSTED	EACH	3	
		60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	4	
		60255500	MANHOLES TO BE ADJUSTED	EACH	5	
		60257900	MANHOLES TO BE RECONSTRUCTED	EACH	2	
		60260100	INLETS TO BE ADJUSTED	EACH	2	
		60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	
		60266100	VALVE VAULTS TO BE RECONSTRUCTED	EACH	1	
	SP	60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	20	
		60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	10	
		60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	10	
		67100100	MOBILIZATION	L SUM	1	
		70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	
		70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	
		70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	
		70300100	SHORT-TERM PAVEMENT MARKING	FOOT	800	
		70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	800	
*		78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	200	
*		78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3,400	
*		78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,400	
*		78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	100	
*		78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	200	
	SP	81400115	HANDHOLE TO BE ADJUSTED	EACH	4	
	SP	81400215	HEAVY-DUTY HANDHOLE TO BE ADJUSTED	EACH	1	
*	SP	88600600	DETECTOR LOOP REPLACEMENT	FOOT	400	
	SP	X0321020	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (COLD MILLING) VARIABLE DEPTH	SQ YD	1,200	
	SP	X0326144	TACTILE/DETECTABLE WARNING SURFACE	SQ FT	170	
*	SP	X7800200	PAINT PAVEMENT MARKING CURB	FOOT	300	
	SP	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	
	SP	Z0076600	TRAINEES	HOUR	500	
	SP	XX006464	DOMESTIC WATER SERVICE BOX TO BE ADJUSTED (SPECIAL)	EACH	4	
	SP	XX006465	DOMESTIC WATER METER VAULT TO BE ADJUSTED (SPECIAL)	EACH	4	
	SP	XXL04800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-V.12	FOOT	1,800	

△ YOSO

FILE NAME =	USER NAME =	DESIGNED -- AMS	REVISED -- AMS 3/09/10
		DRAWN -- BAH	REVISED -- AMS 3/23/10
	PLOT SCALE =	CHECKED -- TPG	REVISED --
	PLOT DATE =	DATE -- 1/28/10	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, MWRDGC NOTES,  
SPECIAL PROJECT NOTES, AND SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2790	10-00212-00-RS	COOK	16	2
CONTRACT NO. 63464				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT ARA-9003(645)				