

**WATER MAIN LEGEND**

PROPOSED WATER MAIN	
EXISTING WATER MAIN	
WATER MAIN TO BE ABANDONED	
EXISTING HYDRANT	
PROPOSED HYDRANT	
EXISTING WATER VAULT	
PROPOSED WATER VAULT	
EXISTING VALVE BOX	
EXISTING MANHOLE	
PROPOSED MANHOLE	
EXISTING CATCH BASIN	
PROPOSED CATCH BASIN	
PROPOSED INLET	
PROPOSED STORM SEWER	
EXISTING STORM SEWER	
EXISTING SANITARY SEWER	
PROPOSED UNDERDRAIN	
UTILITY TO BE REMOVED	
CULVERT	

**WATER MAIN SUMMARY**

PAY CODE	DESCRIPTION	UNIT	QUANTITY
56103000	DUCTILE IRON WATER MAIN, 6"	LFT	27
56103100	DUCTILE IRON WATER MAIN, 8"	LFT	20
56103200	DUCTILE IRON WATER MAIN, 10"	LFT	19
56103300	DUCTILE IRON WATER MAIN, 12"	LFT	290
56103300	DUCTILE IRON WATER MAIN, 16"	LFT	2706
	GATE VALVE 6" WITH VAULT, 4' DIAMETER	EA	3
	GATE VALVE 8" WITH VAULT, 4' DIAMETER	EA	1
	GATE VALVE 10" WITH VAULT, 4' DIAMETER	EA	1
	GATE VALVE 12" WITH VAULT, 4' DIAMETER	EA	2
	GATE VALVE 16" WITH VAULT, 5' DIAMETER	EA	4
56400400	FIRE HYDRANT TO BE RELOCATED	EA	1
56400500	FIRE HYDRANT TO BE REMOVED	EA	9
56400820	FIRE HYDRANT w/ 6" AUX. VALVE & VALVE BOX	EA	11
60500405	FILLING VALVE VAULTS	EA	4
X0325003	REMOVE VALVE AND VAULT	EA	2
	2' OR LARGER WATER SERVICE W/ B-BOX (UNDER 30')	EA	1
X5610651	CONTROLLED LOW STRENGTH MATERIAL (FLOWABLE FILL)	CYD	140
Z0067700	STEEL CASING, 20"	LFT	212
Z0068300	STEEL CASING, 30"	LFT	50
Z0045100	PRESSURE CONNECTION	EA	1

**WATER MAIN NOTES:**

- THE CONTRACTOR SHALL MAKE CONNECTIONS TO EXISTING WATER MAINS UTILIZING A MJ SLEEVE WITH RESTRAINED JOINTS UNLESS NOTED OTHERWISE.
- PRESSURE TESTING AND DISINFECTION OF NEW WATER MAINS SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. EXISTING WATER MAINS SHALL REMAIN IN SERVICE UNTIL NEW WATER MAINS PASS ALL TESTS AND APPROVAL IS GIVEN BY THE ENGINEER AND THE VILLAGE OF ORLAND PARK.
- NEW WATERMAIN SHALL BE ENCASED IN POLYETHYLENE WRAP IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- WATER MAINS AND SERVICES SHALL HAVE A MINIMUM BURY DEPTH OF FIVE (5) FEET AND SIX (6) INCHES BELOW FINISHED GROUND SURFACE.
- EXISTING WATER MAINS TO BE ABANDONED SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM).
- THE CONTRACTOR SHALL REMOVE ALL VALVES, CASTINGS, OR HYDRANTS FROM THE WATER MAINS TO BE ABANDONED. EXISTING BASINS OR VAULTS SHALL BE ABANDONED IN PLACE AND FILLED WITH SAND. WHEN REQUESTED BY THE VILLAGE OF ORLAND PARK, THE CONTRACTOR SHALL SALVAGE AND DELIVER TO THE VILLAGE ANY EXISTING VALVES, CASTINGS, OR HYDRANTS FROM THE ADANDONED WATER MAIN. ALL OTHER PIPE AND APPURTENANCES REMOVED FROM THE ABANDONED WATER MAIN SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- ALL WATER MAINS SHALL BE LAID AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER. THE DISTANCE SHALL BE MEASURED FROM THE OUTSIDE OF PIPE TO OUTSIDE OF PIPE. ALL SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF 18-INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES, SUCH AS WATER MAINS, SEWERS, GAS LINES, PIPELINES, ETC. SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. HOWEVER, THE ENGINEER AND THE OWNER DO NOT ASSUME RESPONSIBILITY IN THE EVENT THAT DURING CONSTRUCTION, UTILITIES OTHER THAN THOSE SHOWN MAY BE ENCOUNTERED, AND THAT THE ACTUAL LOCATION OF THOSE WHICH ARE SHOWN MAY BE DIFFERENT FROM THE LOCATION AS SHOWN ON THE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES AND LOCATE THEIR FACILITIES PRIOR TO ANY WORK.
- RECORD DRAWINGS FOR THE NEW WATER MAINS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE VILLAGE OF ORLAND PARK UPON THE PROJECT COMPLETION. ANY VARIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE INDICATED ON THE RECORD DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AND OPERATOR OF THE DAMAGED UTILITY. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE COMMENCEMENT OF WORK BEGINS. WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION.
- SURFACE FEATURES THAT ARE DISTURBED DUE TO THE CONSTRUCTION OF WATER MAINS, WHICH ARE NOT INCLUDED AS PART OF THE ROADWAY IMPROVEMENTS, SHALL BE RESTORED AND BE CONSIDERED INCIDENTAL TO THE WATER MAIN WORK. RESTORATION THAT IS INCIDENTAL TO THE WATER MAIN WORK SHALL BE INCLUDED IN THE COSTS FOR THE WATER MAIN WORK WITH NO ADDITIONAL COMPENSATION ALLOWED. RESTORATION OF SURFACE FEATURES SHALL INCLUDE, BUT NOT BE LIMITED TO, SODDING, SEEDING, REMOVAL AND RESTORATION OF PAVEMENT, REMOVAL AND RESTORATION OF SIDEWALK, REMOAL AND RESTORATION OF CURB AND GUTTER, AND ANY OTHER ITEM THAT MUST BE DISTURBED TO INSTALL WATER MAIN AS INDICATED IN THE PROJECT DOCUMENTS. RESTORATION WORK ITEMS THAT ARE CONSIDERED INCIDENTAL TO WATER MAIN WORK SHALL BE PERFORMED PER THE REQUIREMENTS OF PROJECT DOCUMENTS.
- ALL WATER MAIN INSTALLED UNDER PAVED ROADWAY SHALL BE DUCTILE IRON PIPE WITH RESTRAINED TYPE JOINTS. WATER MAIN THAT IS NOT INSTALLED UNDER PAVED ROADWAY SHALL ONLY BE RESTRAINED AT BENDS AND FITTINGS AS INDICATED IN THE PROJECT DOCUMENTS.
- CONTRACTOR SHALL VERIFY CLEARANCES FROM SIDEWALKS AND PAVEMENT FOR FIRE HYDRANTS PRIOR TO INSTALLATION. FIRE HYDRANTS MUST HAVE 2' OF CLEARANCE FROM FACE OF CURBS AND A MINIMUM OF 6" FROM SIDEWALK TO CLOSEST PART. FIRE HYDRANTS MAY BE PLACED IMMEDIATELY AGAINST THE ROW WHERE PRACTICAL.

SHEET	STA	WATER MAIN - DIP (LF)	FHYD REMOVAL/ RELOCATION (EACH)	FHYD (EACH)	SERVICE CONNECTION 2" OR LARGER (EACH)	GATE VALVE IN VAULT (EACH)	REMOVE VALVE AND VAULT (EACH)	FILLING VAULT (EACH)	TEE (EACH)	CONNECTION (EACH)	PRESSURE CONNECTION (EACH)	CONTROLLED LOW STRENGTH MATERIAL (CYD)	20" CASING (LF)
WT-02	128+67	130'-12"							1-12"x6"	1-12"	1-(16"x12")		
WT-02	128+70			1								2.3-(12")	110
WT-04	129+79	400'-16"	1-REL				1-(129+63)					3.4-(12")	
WT-04	131+50									1-16"			
WT-04	132+60		1-REM	1					1-16"x6"				
WT-04	132+90								1-16"x10"	1-10"			
WT-04	134+68			1					1-16"x6"			10.8-(16")	
WT-04	134+85.5	8.5'-10"				1-10"			1-16"x10"				
WT-04	134+87.5							1		1-10"			
WT-04	135+01					1-16"							
WT-05	137+20	600'-16"	1-REM	1					1-16"x6"				
WT-05	138+88						1					31-(16")	
WT-05	139+40	8.5'-6"				1-6"		1	1-16"x6"				
WT-05	139+42									1-6"			
WT-05	139+65			1					1-16"x6"				
WT-05	139+73					1-16"							
WT-05	140+93	30'-12"				1-12"		1	1-16"x12"	1-12"			
WT-06	141+58.5		1-REM										
WT-06	142+00			1					1-16"x6"				
WT-06	142+29					1-16"							
WT-06	142+43	110'-12"			1-(142+90)				1-16"x12"	1-12"		2.8-(12")	102
WT-06	144+70		1-REM	1					1-16"x6"				
WT-06	145+27	10'-6"				1-6"				1-6"			
WT-06	146+14									1-8"			
WT-06	146+18	600'-16"				1-8"						31-(16")	
WT-06	146+22	20'-8"	1-REM						1-16"x8"				
WT-07	148+09		1-REM	1					1-16"x6"				
WT-07	149+35	8.5'-6"				1-6"							
WT-07	149+37								1-16"x6"	1-6"			
WT-07	150+28		1-REM	1					1-16"x6"				
WT-07	151+52		1-REM										
WT-07	153+00	600'-16"		1					1-16"x6"			31-(16")	
WT-08	153+93.5	20'-12"				1-12"			1-16"x12"				
WT-08	153+97									1-12"			
WT-08	154+03					1-16"		1					
WT-08	155+12		1-REM										
WT-08	155+69	10'-10"							1-16"x10"	1-10"			
WT-08	156+00			1					1-16"x6"				
WT-08	158+50	506'-16"								1-16"		25.9-(16")	
TOTAL		27'-6" 20'-8" 18.5'-10" 290.0'-12" 2706'-16"	1-REL 9-REM	11	1	3-6" 1-8" 1-10" 2-12" 4-16"	2	4			1	140	212



FILE NAME = D160F05-SHT-WATER01.dgn	USER NAME = Anthony.Plutz	DESIGNED - DF	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>WATER MAIN LEGEND, NOTES, AND SCHEDULE</b>				F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 356			
SHT_PLAN	PLOT SCALE = 48,0000' / 1"	CHECKED - TDW	REVISED -						SCALE: NO SCALE SHEET 1 OF 10 SHEETS STA. TO STA.				<b>WT-01</b>		CONTRACT NO. 60F05	
	PLOT DATE = 3/9/2013	DATE - 03/13/13	REVISED -						ILLINOIS FED. AID PROJECT							