

1. MATERIAL AND CONSTRUCTION METHODS FOR THE INSTALLATION OF SANITARY SEWER SHALL BE IN ACCORDANCE WITH LOCAL AND COUNTY AGENCY REQUIREMENTS.

2. ALL SANITARY SEWER PIPE SHALL BE PVC SCH 20 AND NEXT OR EXCEED ASTM D-3034 FOR HEAVY WALL PIPE UNLESS OTHERWISE NOTED.

3. TESTING PROCEDURE OF NEW SANITARY LINE SHALL BE IN ACCORDANCE WITH LOCAL AND COUNTY REQUIREMENTS. CONTRACTOR TO COORDINATE INSPECTIONS WITH AGENCIES.

4. REFER TO MUNICIPALITY'S STANDARD DETAIL SHEET FOR SANITARY DETAILS AND STANDARD NOTES.

INSTALL WATER MAIN WITH A MINIMUM OF 6" OF COVER.

PROVIDE A MINIMUM OF 18" OF VERTICAL SEPARATION AND 10" OF HORIZONTAL SEPARATION BETWEEN WATERMAINS AND ALL SANITARY AND STORM SEWERS.

PROTECT TURNT BUCKS AT ALL WATER MAIN BENDS, PIPES AND TEES PER GENESSEE COUNTY AND GRAND BLANC TOWNSHIP STANDARDS.

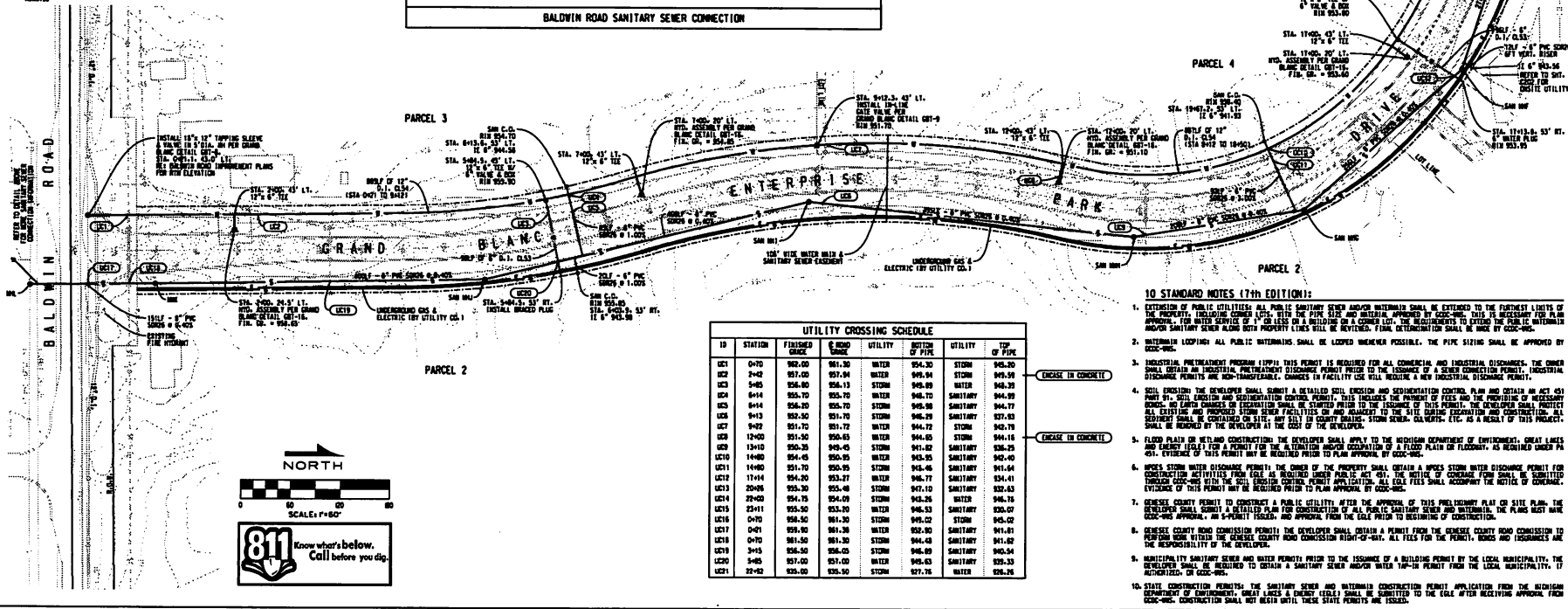
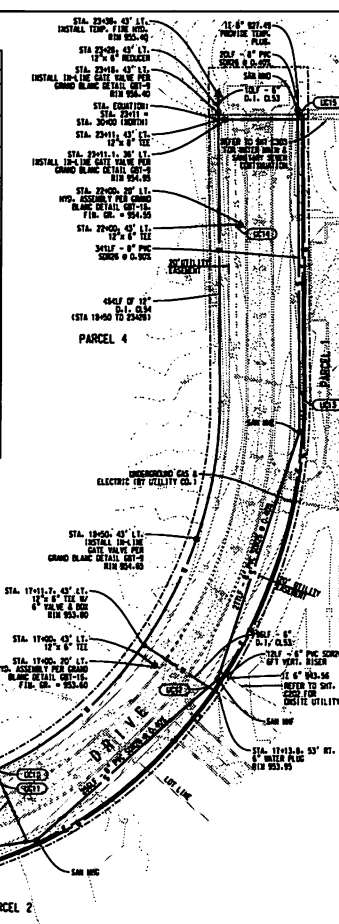
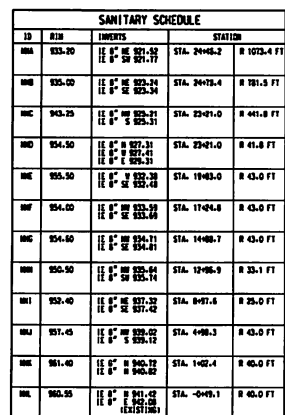
ALL WATER MAIN WATERMAINS SHALL CONFORM TO GENESSEE COUNTY AND GRAND BLANC TOWNSHIP SPECIFICATIONS, NO SECONDARY OR SALVAGED WATERMAINS SHALL BE PERMITTED.

1" AND LARGER WATER MAIN PIPE SHALL BE DUCTILE IRON CLASS 54 CONFORMING TO AASHTO M254.

4" TO 12" WATER MAIN PIPE SHALL BE DUCTILE IRON CLASS 33 CONFORMING TO AASHTO M254.

6" AND SMALLER WATER LEAD PIPE SHALL BE PIPE "C" COPPER.

THE WATER MAIN SHALL BE TESTED IN ACCORDANCE WITH LOCAL AND STATE WATER REQUIREMENTS. THE INSPECTION OF THE MUNICIPALITY SHALL BE PRESENT DURING THE TESTING.

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UTILITY CROSSING SCHEDULE						
ID	STATION	PAVED ROAD GRADE	6" ROAD WIDTH	UTILITY	UTILITY	TYPE OF PIPE
UC1	0+70	980.00	981.30	WATER	954.30	STORM
UC2	2+02	987.00	987.94	WATER	964.94	STORM
UC3	2+42	986.00	987.11	STORM	960.11	WATER
UC4	3+14	987.00	987.94	WATER	964.94	STORM
UC5	3+44	986.00	987.10	STORM	960.10	SAWYER
UC6	3+13	982.50	981.70	STORM	946.70	SAWYER
UC7	3+07	981.70	981.73	WATER	944.73	STORM
UC8	3+20	982.50	981.70	STORM	946.70	SAWYER
UC9	3+10	982.50	981.70	STORM	946.70	SAWYER
UC10	1+400	984.45	985.95	STORM	943.95	SAWYER
UC11	1+400	981.70	985.95	STORM	943.95	SAWYER
UC12	1+114	984.45	985.97	STORM	946.77	SAWYER
UC13	2+04	983.90	985.97	STORM	946.77	SAWYER
UC14	2+04	984.15	984.00	STORM	946.75	WATER
UC15	2+11	985.50	985.30	STORM	946.33	SAWYER
UC16	0+70	986.50	986.10	STORM	958.52	STORM
UC17	0+07	986.50	986.10	STORM	958.50	SAWYER
UC18	2+17	987.00	987.94	WATER	964.94	STORM
UC19	3+13	986.50	986.20	STORM	960.20	SAWYER
UC20	+405	987.00	987.00	WATER	963.00	SAWYER
UC21	2+42	986.00	986.50	STORM	927.16	WATER

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SECTION 17
 GRAND BLANC, GRAND BLANC
 PLANNING, GRAND BLANC

C302

DATE: 10/1/2011

ENGINEERING - LAND SURVEYING

SITE PLANNING

DATE: 10/1/2011

PROJECT: **ENG**

JOB NO.: **21210501**

REVISIONS

NO.	DATE	DESCRIPTION

GRAND BLANC

ENTERPRISE PARK

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ENTERPRISE PARK DRIVE UTILITY PLAN

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