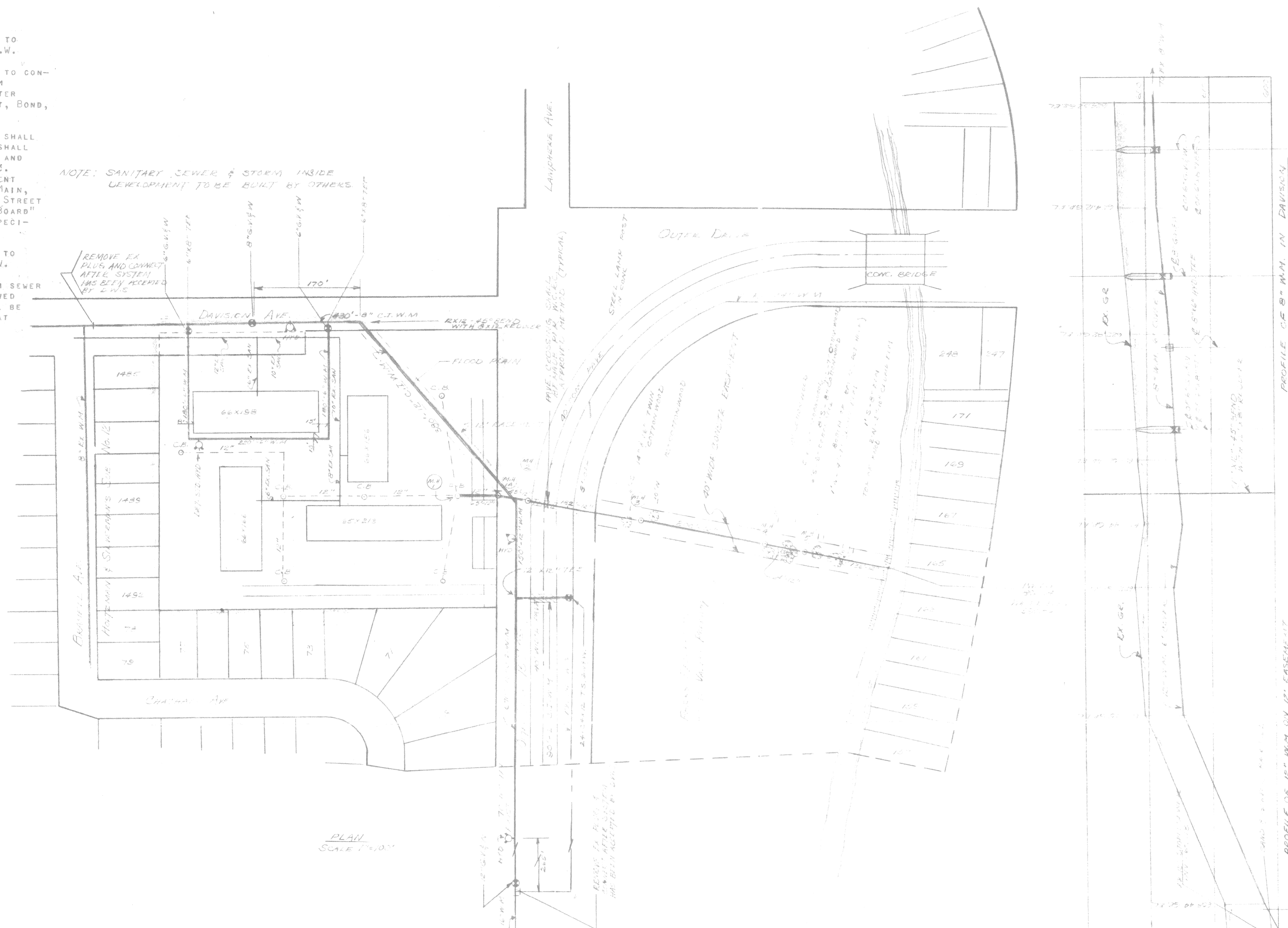


**GENERAL NOTES:**

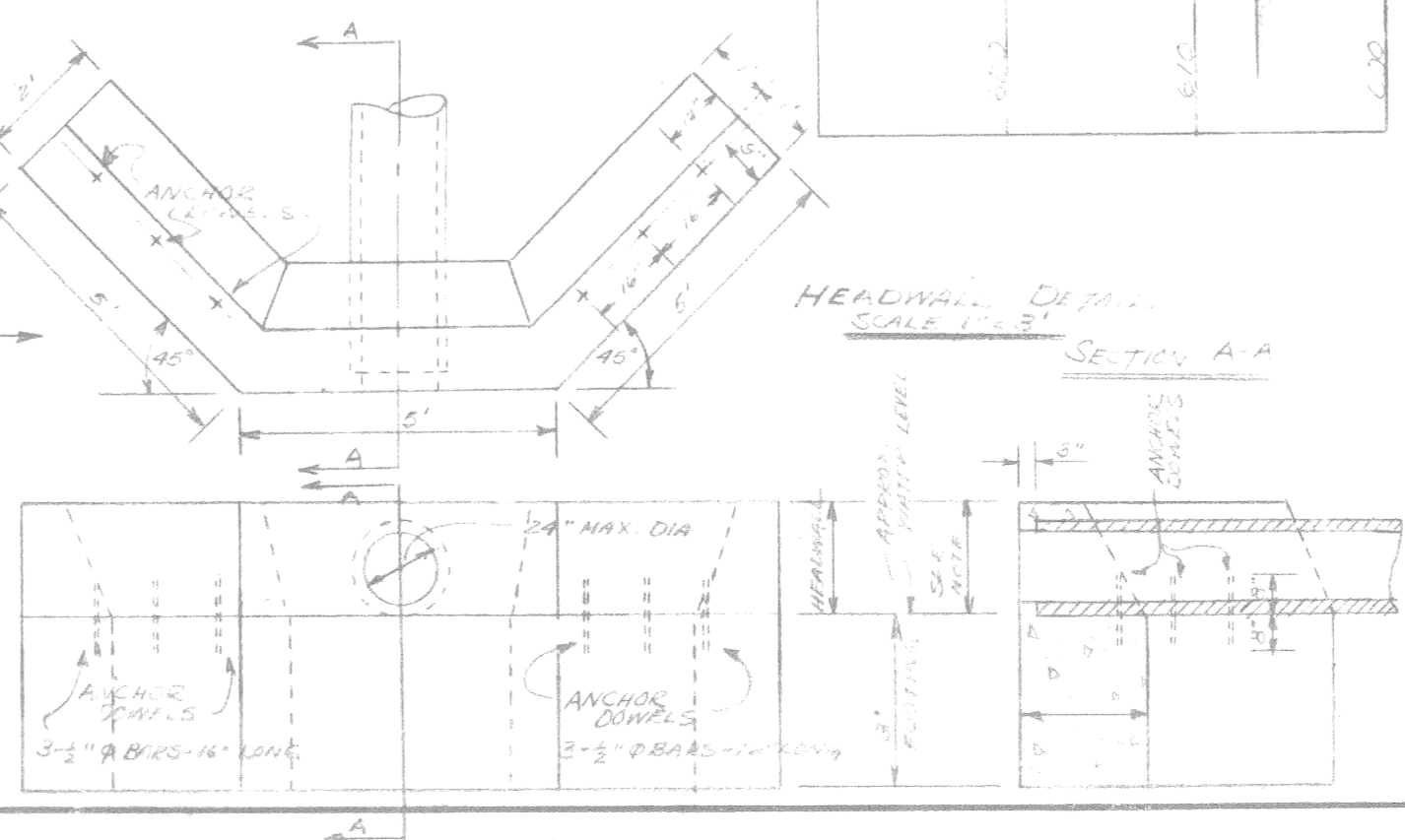
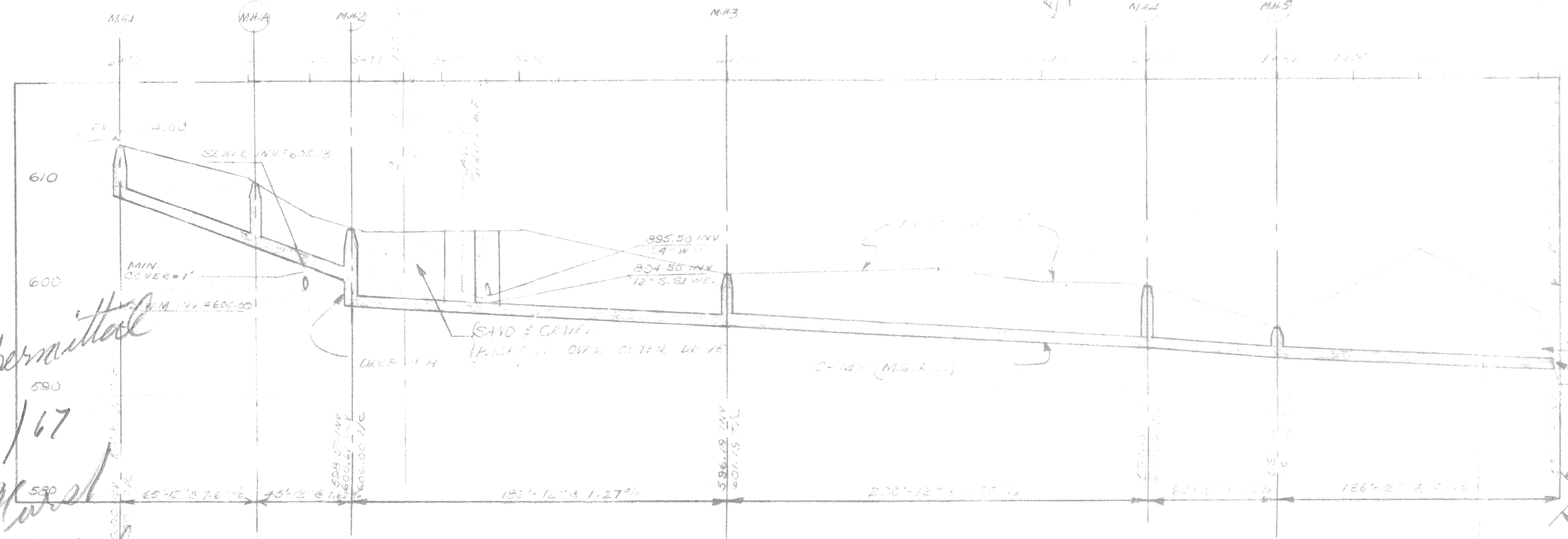
- 1.) THE CONTRACTOR SHALL OBTAIN A PERMIT TO CONSTRUCT STORM SEWER WITHIN W.C.R.C., R.O.W.
- 2.) THE CONTRACTOR SHALL OBTAIN A PERMIT TO CONSTRUCT STORM SEWER WITHIN PARK R.O.W. FROM W.C.R.C. PARKS DIV., CONTACT MR. C.L. PORTER (W02-7670 EXT. 240) FOR CONSTRUCTION PERMIT, BOND, INSPECTION FEE, ETC.
- 3.) ALL WORK PERFORMED WITHIN W.C.R.O.W. SHALL BE PERFORMED IN A WORKMANLIKE MANNER AND SHALL STRICTLY CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF W.C.R.C.; AND, W.C. SPEC. DS-17 "REQUIREMENTS FOR PAVEMENT REPLACEMENT AND TRENCH BACKFILL WHERE A SEWER, WATER MAIN, OR OTHER UTILITY WILL BE CONSTRUCTED IN A STREET OR HIGHWAY UNDER THE JURISDICTION OF THE BOARD" SHALL BE CONSIDERED TO BE A PART OF THE SPECIFICATION OF THEIR JOB.
- 4.) THE CONTRACTOR SHALL OBTAIN A PERMIT TO CONSTRUCT WATER MAIN WITHIN W.C.R.C., R.O.W.
- 5.) ROAD AND PAVEMENT CROSSINGS FOR STORM SEWER AND WATER MAIN SHALL BE MADE ONLY AS ALLOWED AND DIRECTED BY W.C.R.C. - SUCH DATA SHALL BE OBTAINED FROM THE W.C.R.C. AT THE TIME THAT CONSTRUCTION PERMITS ARE OBTAINED.

NOTE: SANITARY SEWER & STORM INSIDE DEVELOPMENT TO BE BUILT BY OTHERS



NO	ITEM	QUANTITY
1	6" C.I. WM	500 LF
2	8" C.I. WM	100 LF
3	12" C.I. WM	500 LF
4	HYDRANTS	4 EA
5	8" G. F.W.	2 EA
6	8" G. F.W.	1 EA
7	12" G. F.W.	1 EA
8	24" x 24" x 2' S.G. J.W.	1 EA
9	12" x 12" TEE	1 EA
10	8" x 8" TEE	2 EA
11	12" x 12" 45° BEND WITH 2"	2
12	8" x 8" 45° BEND WITH 1"	1
STORM SEWER		
1	12" PIPE	500 LF
2	HEADWALL	1 EA

Max Slope permitted  
2.0% 8/1/67  
A. Howard  
E.D. Bay



**HEADWALL NOTES:**

1. FOOTING TO BE POURED SEPARATE FROM HEADWALL & REINFORCED BARS FOR ANCHOR DOWN.
2. HALF OF HEADWALL SHALL BE LOCATED 1' OUTSIDE THE EDGE OF ROADWAY WATER.
3. HEIGHT OF HEADWALL SHALL VARY ACCORDING TO THE SLOPE OF THE BANK AT THE STRUCTURE.
4. REINFORCE HEADWALL (ABOVE FOOTING) WITH 5/8" BARS SPACED AT 16" HORIZONTAL AND VERTICAL TIE TO ANCHOR DOWN.

**CAST IRON WATER MAIN NOTES:**

- 1.) ALL WATER MAIN CONSTRUCTION SHALL BE PERFORMED IN A WORKMANLIKE MANNER AND SHALL STRICTLY CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE D.W.S.
- 2.) CHLORINATIONS, PRESSURE TESTING, AND ALL CONSTRUCTION INSPECTION SHALL BE PERFORMED BY D.W.S. - THE CONTRACTOR SHALL NOTIFY THE D.W.S. 48 HOURS PRIOR TO ANY SUCH CONTEMPLATED WORK. THE COST OF SUCH SERVICES SHALL BE BILLED TO THE CONTRACTOR.
- 3.) 8" AND 12" CAST IRON WATER MAIN SHALL BE OF A TYPE AND CLASS WHICH WILL EITHER MATCH OR EASILY ADAPT TO EXISTING WATER MAIN TO BE TAPPED AS ALLOWED BY D.W.S. UNDER A13S-2 AND PER A.S.A.-A21.6 OR A21.8 AS APPLICABLE.
- 4.) 6" WATER MAIN SHALL BE SLIP-ON TYPE JOINT AS ALLOWED BY D.W.S. UNDER A.S.A.-A21.6 OR A21.8 AS APPLICABLE.
- 5.) ALL BYDRANTS SHALL BE D.W.S. STANDARD.
- 6.) ALL GATE-WELLS SHALL BE CONSTRUCTED ONLY OF BRICK PER D.W.S. SPECIFICATIONS.
- 7.) APPURTENANCES, FITTINGS, THRUST BLOCKS, ETC. SHALL BE ONLY AS APPROVED BY D.W.S. AND SHALL BE CONSTRUCTED ACCORDING TO CURRENT D.W.S. STANDARDS.
- 8.) MINIMUM COVER ON WATER MAIN SHALL BE 6.0 FEET.

**STORM SEWER NOTES:**

- 1.) ALL WORK PERFORMED WITHIN W.C.R.C., R.O.W. SHALL BE DONE UNDER W.C.R.C. INSPECTION. ARRANGEMENTS FOR SAID INSPECTION SHALL BE MADE BY THE CONTRACTOR AT THE TIME HE SECURES HIS PERMIT TO CONSTRUCT.
- 2.) ALL WORK WITHIN PARK PROPERTY BETWEEN THE OUTLET AND THE E. LINE OF OUTER DRIVE SHALL BE PERFORMED WITHIN A 40 FOOT WIDE AREA.
- 3.) TREES AND SHRUBS REMOVED SHALL BE REPLACED BY THE CONTRACTOR AS DESIGNATED BY THE W.C.L. ARCHITECT.
- 4.) TREES ADJACENT TO THE WORK AREA SHALL BE PROTECTED FROM DAMAGE BY PLACING PLANKS AROUND THE TRUNKS OF TREES.
- 5.) DAMAGE TO TREES AND SHRUBS SHALL BE REPAIRED BY AN APPROVED TREE SERVICE ORGANIZATION OR BY THE W.C.L. THE CONTRACTOR WILL BE BILLED FOR ANY SUCH SERVICE.
- 6.) THE TRENCH AREA WITHIN THE PARK AREA SHALL BE BACKFILLED AND COMPACTED OVER THE INSTALLATION ACCORDING TO W.C. STANDARDS. THE TRENCH BACKFILL SHALL ALSO BE GRADED TO CORRESPOND WITH THE ORIGINAL CONTOURS OF THE AREA.
- 7.) SLOPES STEEPER THAN 4 ON 1 THAT ARE DISTURBED AS A RESULT OF CONSTRUCTION SHALL BE RESTORED BY PLACING SOIL IN ACCORDANCE WITH W.C.R.C. GENERAL SPECIFICATIONS.
- 8.) ALL FLAT DISTURBED AREAS CAUSED BY CONSTRUCTION SHALL BE FINISH-GRADED WITH A SUITABLE TOP SOIL TO A DEPTH OF 4 INCHES (MIN.), A SEED BED PREPARED, FERTILIZED AND SEEDING PER W.C.G.O. FOR CLASS "A" SEEDING. THE ENTIRE AREA SHALL THEN BE STRAW-MULCHED AT THE RATE OF TWO (2) TONS PER ACRE.
- 9.) THE W.C. PARKS DIVISION WILL PLACE AN INSPECTOR ON THE JOB DURING ALL WORK OPERATIONS ON PARK PROPERTY. THE CONTRACTOR WILL BE BILLED FOR THIS SERVICE.
- 10.) THE CONTRACTOR SHALL CALL THE PARKS AND FORESTRY FIELD OFFICE AT KE1-1516 OR KE2-2630, 48 HOURS PRIOR TO STARTING WORK WITHIN PARK PROPERTY.
- 11.) THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY PROTECTIVE FENCING FOR THE ENTIRE LENGTH OF CONSTRUCTION WITHIN PARK PROPERTY IF REQUIRED BY THE PARKS DIVISION. ALL OTHER SAFETY PRECAUTIONS NORMALLY EMPLOYED ON A PROJECT OF THIS NATURE SHALL BE IMPLEMENTED BY THE CONTRACTOR.

DATE: 7-2-67		JOB NO. 4201/6		SHEET NO. 1 OF 1	
SCALE: AS SHOWN		DATE: 7-2-67		NEREE D. ALIX, P.E. CONSULTING ENGINEERS LAND SURVEYORS 30729 GREENFIELD SOUTHFIELD, MICHIGAN	
DR.	CK.	APP.			