

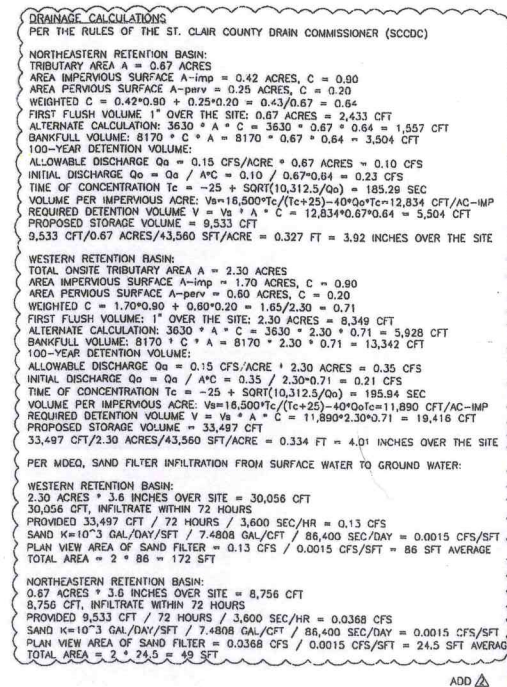
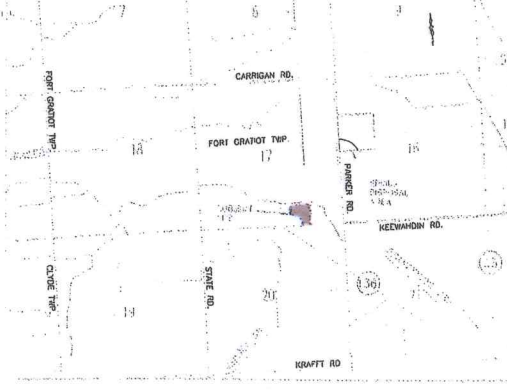
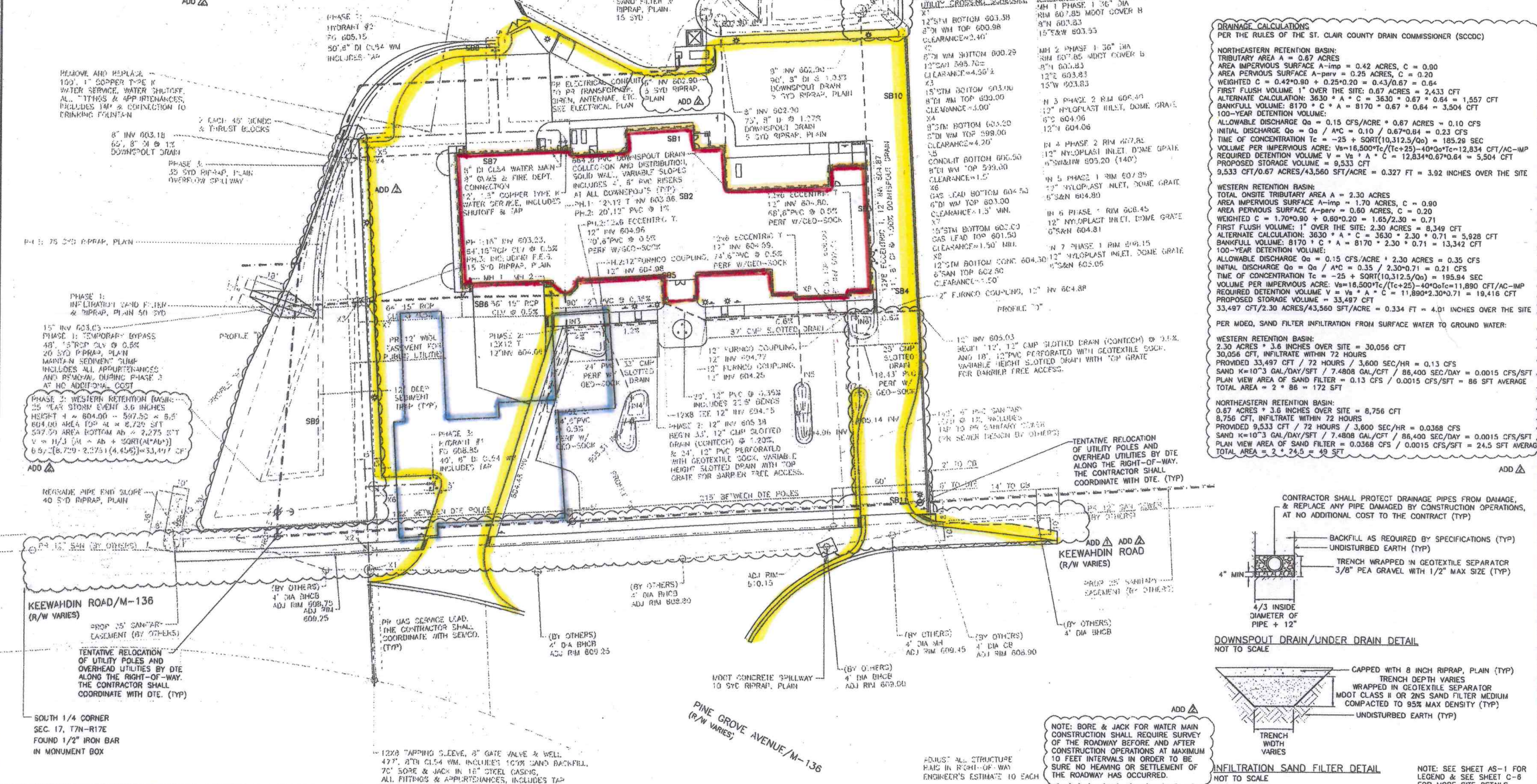
ENGINEER'S ESTIMATED QUANTITIES (THIS SHEET)
THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL QUANTITIES NECESSARY TO COMPLETE THE WORK. ALL ENGINEER'S ESTIMATED QUANTITIES SHALL BE CONSIDERED APPROXIMATE.

| ITEM | UNIT | QUANTITY |
|---|------|----------|
| INFILTRATION SAND FILTER (PLAN VIEW) | SFT | 585 |
| SEWER, 8" PVC SOLID WALL | FT | 142 |
| SEWER, 8" PVC PERFORATED WITH GEOTEXTILE SOCK | FT | 296 |
| SEWER, 8" HDPE PERFORATED WITH GEOTEXTILE SOCK | FT | 150 |
| SEWER, 8" PVC SOLID WALL | FT | 664 |
| SEWER, 12" PVC SOLID WALL | FT | 159 |
| SEWER, 12" PVC PERFORATED WITH GEOTEXTILE SOCK | FT | 42 |
| SEWER, 12" CMP SLOTTED DRAIN (CONTECH) | EA | 145 |
| SEWER, 15" RCP CLV | FT | 168 |
| PLUMB AND BROWN, CONCRETE, 15 INCH | EA | 1 |
| DRAINAGE STRUCTURE, ADJUST | EA | 7 |
| DRAINAGE STRUCTURE, COVER | EA | 7 |
| DRAINAGE STRUCTURE, 26 INCH DIA (MANHOLE) | EA | 2 |
| RIPRAP, PLAN | SQD | 290 |
| FIRE HYDRANT ASSEMBLY (T" TYPE W/SHUTOFF) | EA | 1 |
| FIRE DEPARTMENT CONNECTION | EA | 1 |
| DATE VALVE AND BOX, 8 INCH | EA | 1 |
| 12X8 TAPPING SLEEVE, 8 INCH VALVE, AND 60" WELL | EA | 1 |
| DUCTILE IRON, 8 INCH | FT | 90 |
| DUCTILE IRON, 6 INCH | FT | 705 |
| WATER SERVICE, 1" COPPER TYPE K | FT | 100 |
| WATER SERVICE, 1-1/2" COPPER TYPE K | FT | 12 |

NOTE: ALL PAY ITEMS INCLUDE ALL FITTINGS & APPURTENANCES REQUIRED TO COMPLETE THE WORK (TYP)

ALL WORK SHALL BE CONSIDERED CONSTRUCTED DURING PHASE 1, UNLESS SPECIFIED PHASE 2 (PH. 2) OR PHASE 3 (PH. 3) IN THE PLAN NOTES (TYP)

THE CONTRACTOR SHALL PREVENT DAMAGE TO ALL PIPES. ALL PIPES SHALL BE CLEANED (AS NECESSARY) AND VIDEOGRAPHED AFTER INSTALLATION, AND AGAIN AFTER ANY AND ALL OTHER CONSTRUCTION OPERATIONS. THE RECORD DOCUMENTATION SHALL BE REVIEWED BY THE OWNER AND THEIR REPRESENTATIVES. ANY DAMAGED PIPES SHALL BE REPLACED AT NO ADDITIONAL COST TO THE CONTRACTOR PRIOR TO ACCEPTANCE AND PAYMENT (TYP)



HURON CONSULTANTS
ENGINEERS & SCIENTISTS

3811 24th Ave, Suite A
Fort Gratiot, MI 48059
TEL: (810) 966-0680
FAX: (810) 966-0681

www.huronconsultants.com

CLIENT NAME:
FORT GRATIOT CHARTER TOWNSHIP
3720 KEEWAHDIN ROAD
FORT GRATIOT, MI 48059
TEL: 810.385.4489
FAX: 810.385.9010

3 WORKING DAYS
800-482-7171

Know what's below.
Call before you dig.

UTILITY PLAN

PROJECT NAME:
FORT GRATIOT CHARTER TOWNSHIP MUNICIPAL CENTER

PROJECT LOCATION:
SEC'S 18&17, T7N, R17E
FORT GRATIOT TOWNSHIP
SAINT CLAIR COUNTY

Drawn By: TDP
Checked By: SJS
Approved By: EJO

REVISIONS:

- 2013-11-25
- 2013-12-03
- 2013-12-05
- 2013-12-18
- 2014-01-20
- 2014-02-03
- 2014-02-12
- 2014-02-24
- 2014-02-28

SCALE VERIFICATION:
SCALE: 1"=30'

HC PROJECT NO:
13-10672

HC DRAWING NO:
UP1

C-3