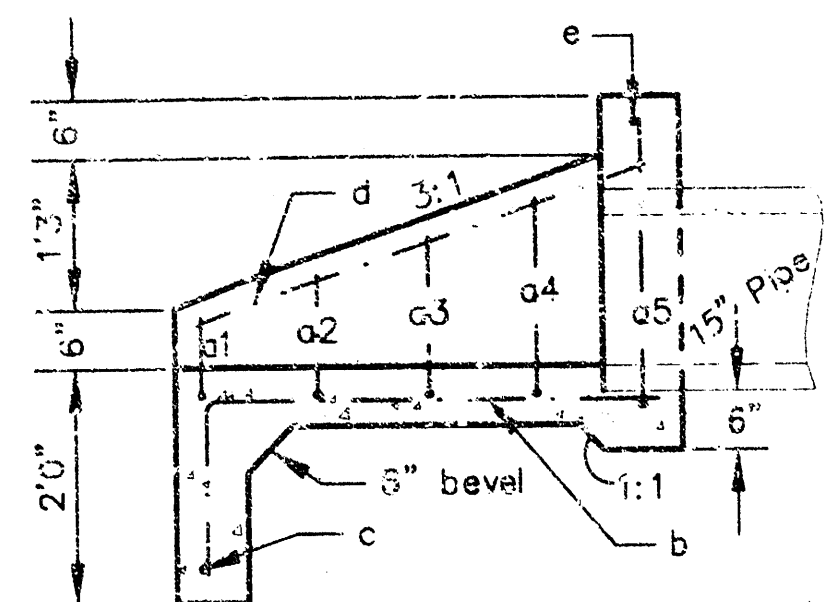
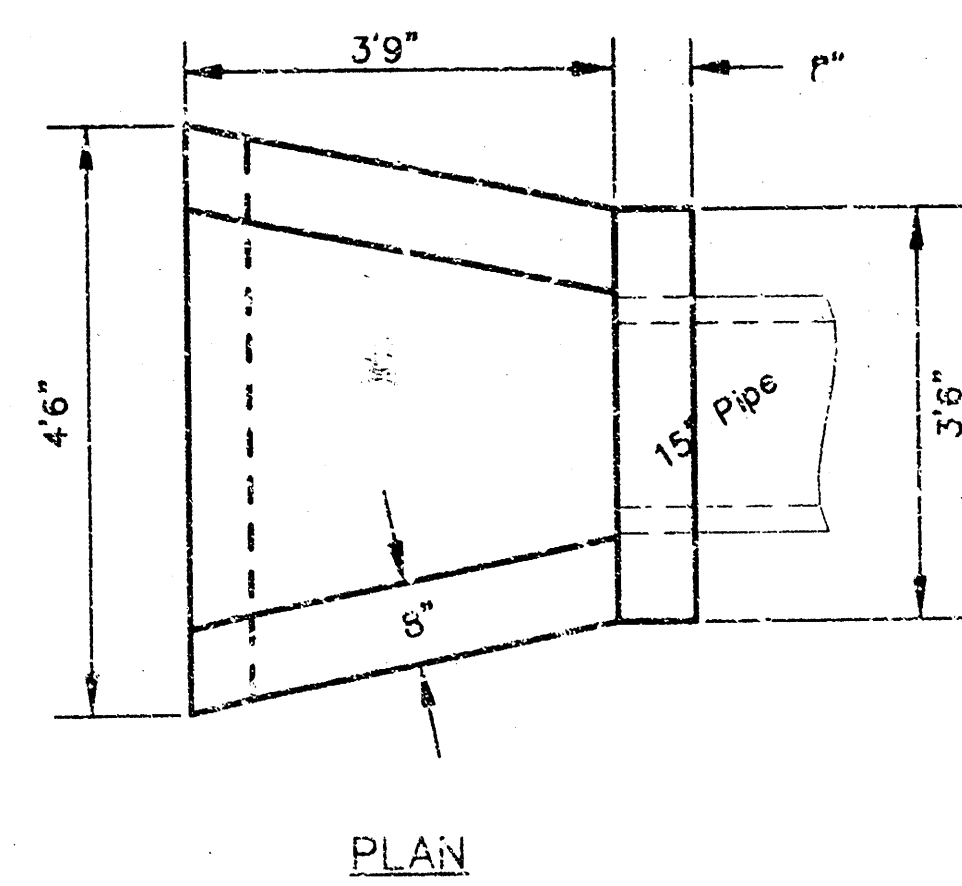
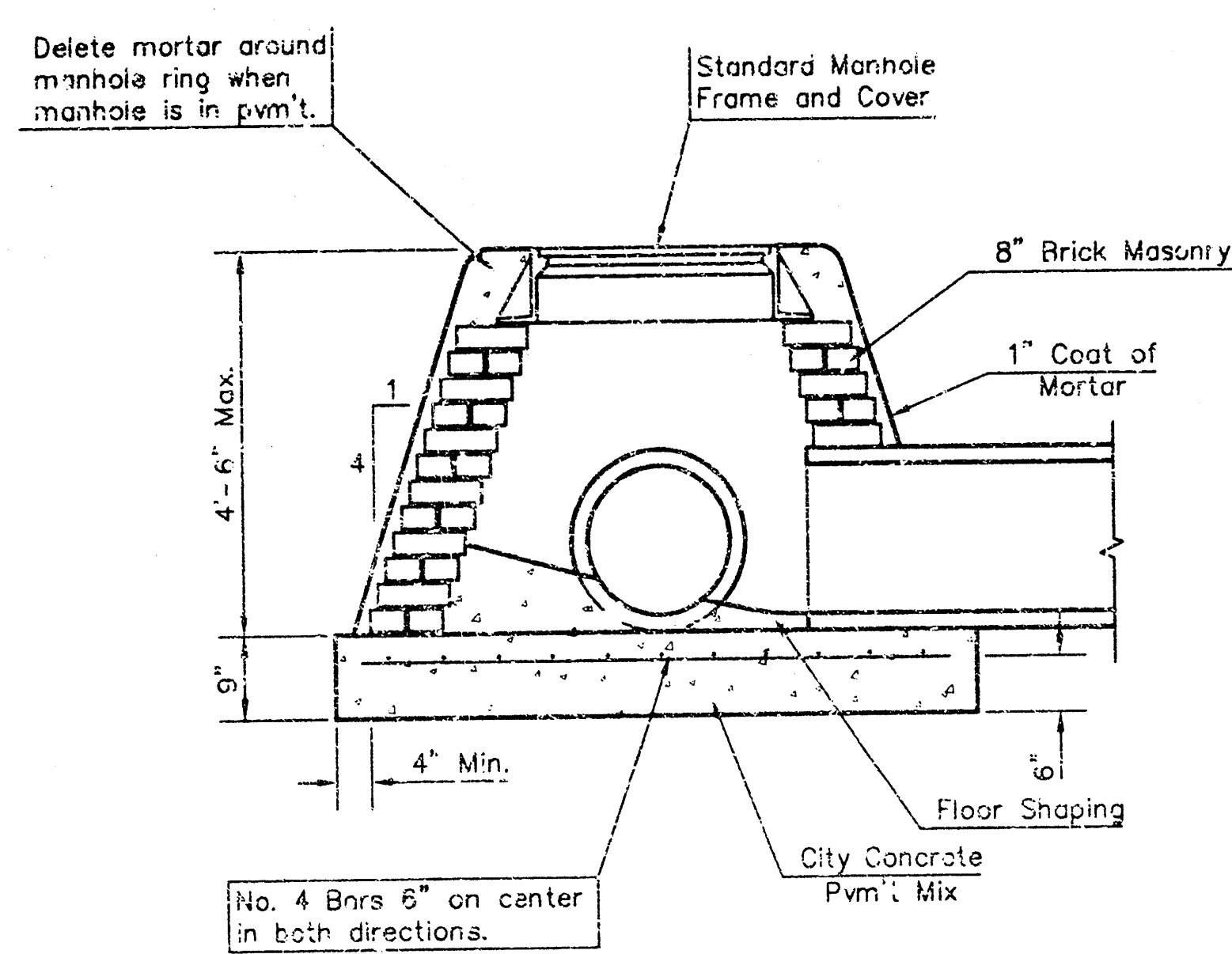
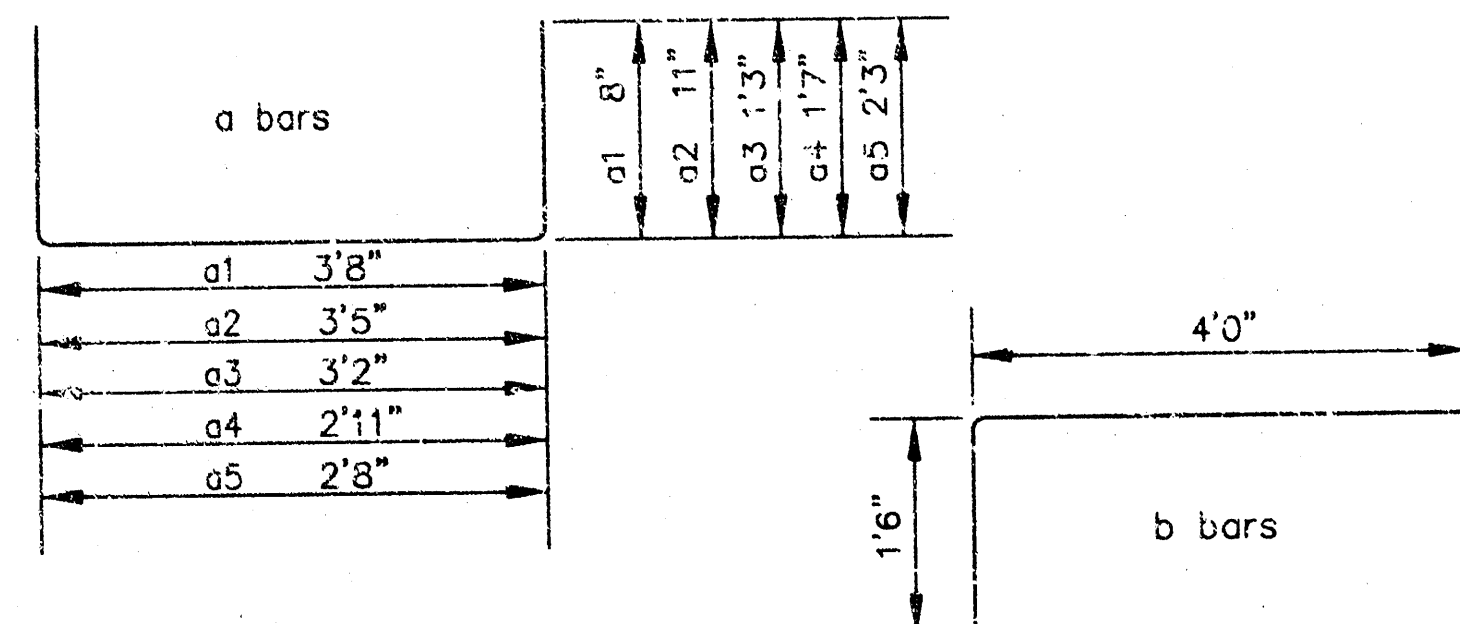




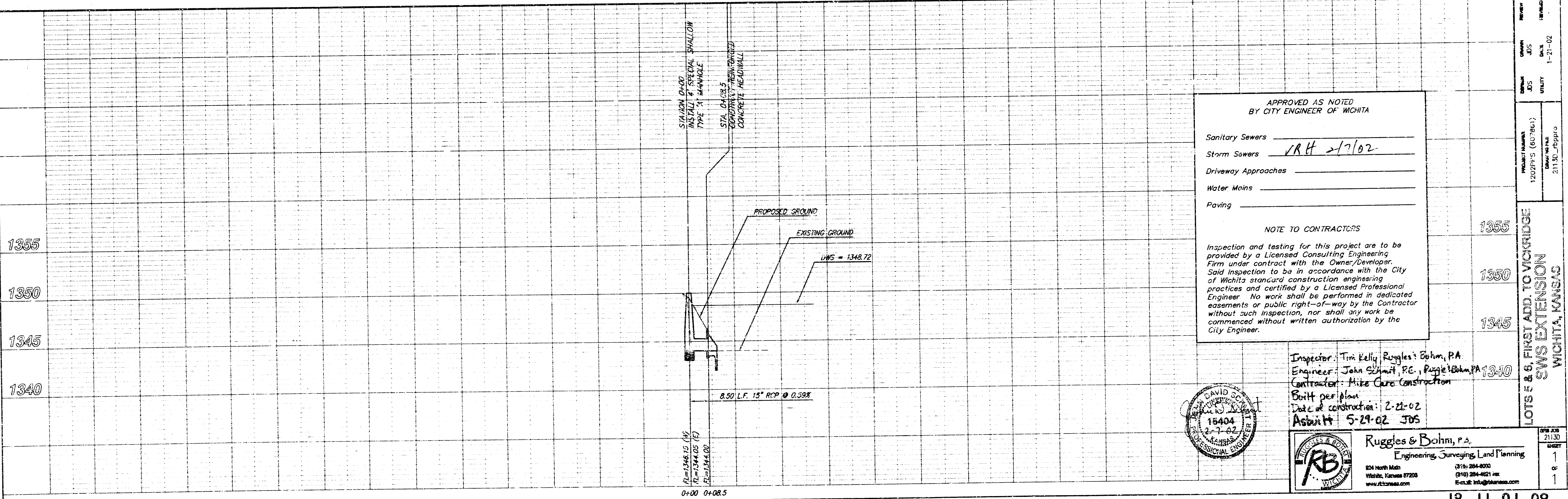
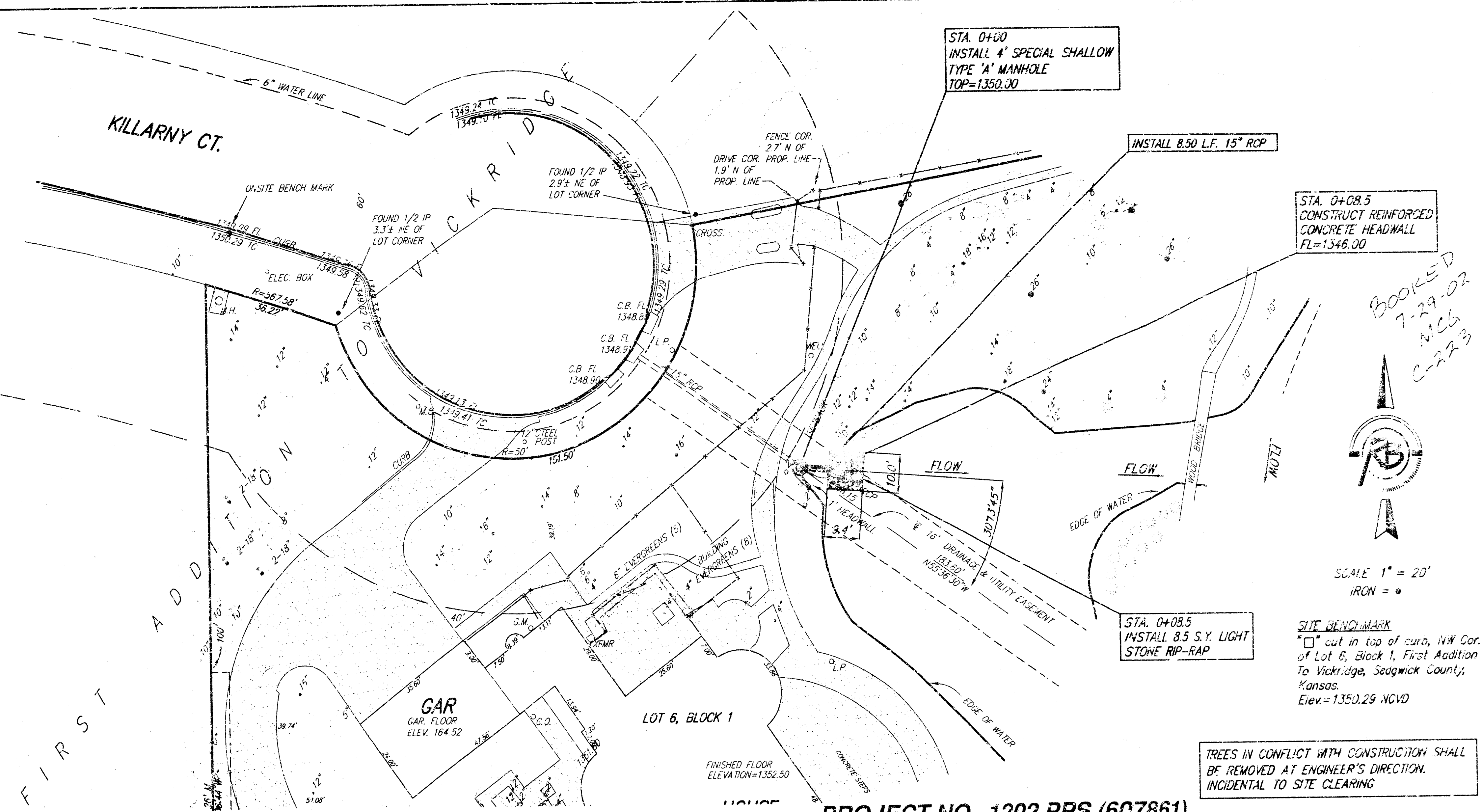
All rebars to be #4.  
All exposed edges to have 1/2" bevel



SPECIAL SHALLOW TYPE "A" MANHOLE

| BAR              | NUMBER | LENGTH | SHAPE | WEIGHT |
|------------------|--------|--------|-------|--------|
| a1               | 1      | 5'0"   |       | 3.34   |
| a2               | 1      | 5'3"   |       | 3.51   |
| a3               | 1      | 5'8"   |       | 3.79   |
| a4               | 1      | 6'1"   |       | 4.06   |
| a5               | 1      | 7'2"   |       | 4.79   |
| b                | 5      | 5'5"   |       | 18.37  |
| c                | 1      | 4'0"   |       | 2.67   |
| d                | 2      | 4'0"   |       | 5.34   |
| e                | 1      | 3'2"   |       | 2.12   |
| Total Rebar, lbs |        |        |       | 47.99  |
| Concrete, C.Y.   |        |        |       | 0.91   |

All rebars to be #4.  
HEADWALL FOR 15" PIPE



APPROVED AS NOTED  
BY CITY ENGINEER OF WICHITA

Sanitary Sewers \_\_\_\_\_

Storm Sewers VRH 5/7/02

Driveway Approaches \_\_\_\_\_

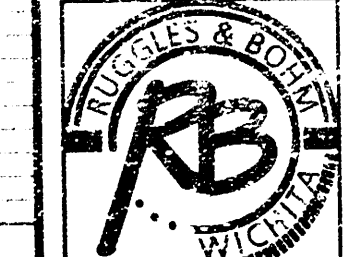
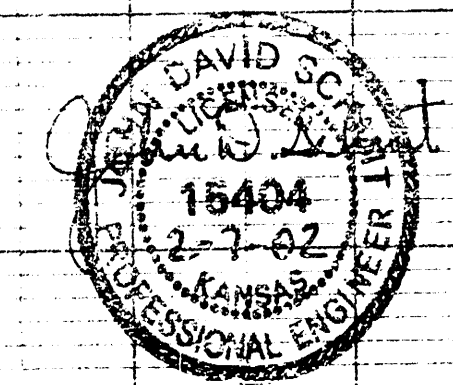
Water Mains \_\_\_\_\_

Paving \_\_\_\_\_

NOTE TO CONTRACTORS

Inspection and testing for this project are to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection, nor shall any work be commenced without written authorization by the City Engineer.

Inspector: Tim Kelly, Ruggles & Bohm, P.A.  
Engineer: John Schmitt, P.E., Ruggles & Bohm, P.A.  
Contractor: Mike Caro Construction  
Built per plan  
Date of construction: 2-21-02  
As-built: 5-29-02 JDS



Ruggles & Bohm, P.A.  
Engineering, Surveying, Land Planning  
824 North Main  
Wichita, Kansas 67208  
(316) 264-8050  
(316) 264-4021 fax  
E-mail: info@ruggles.com

| PROJECT NUMBER    | DATE   | REVISION |
|-------------------|--------|----------|
| 1202 PPS (607861) | 5/7/02 | 1        |
| 21130_000         | 5/7/02 | 1        |