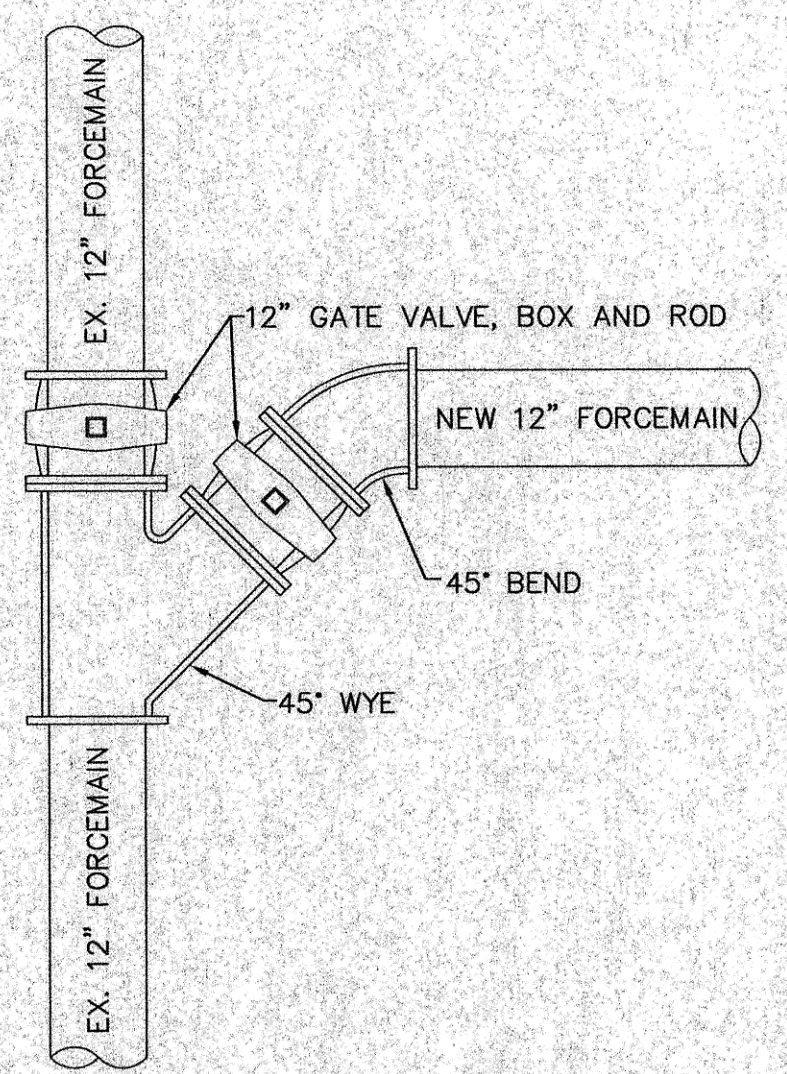
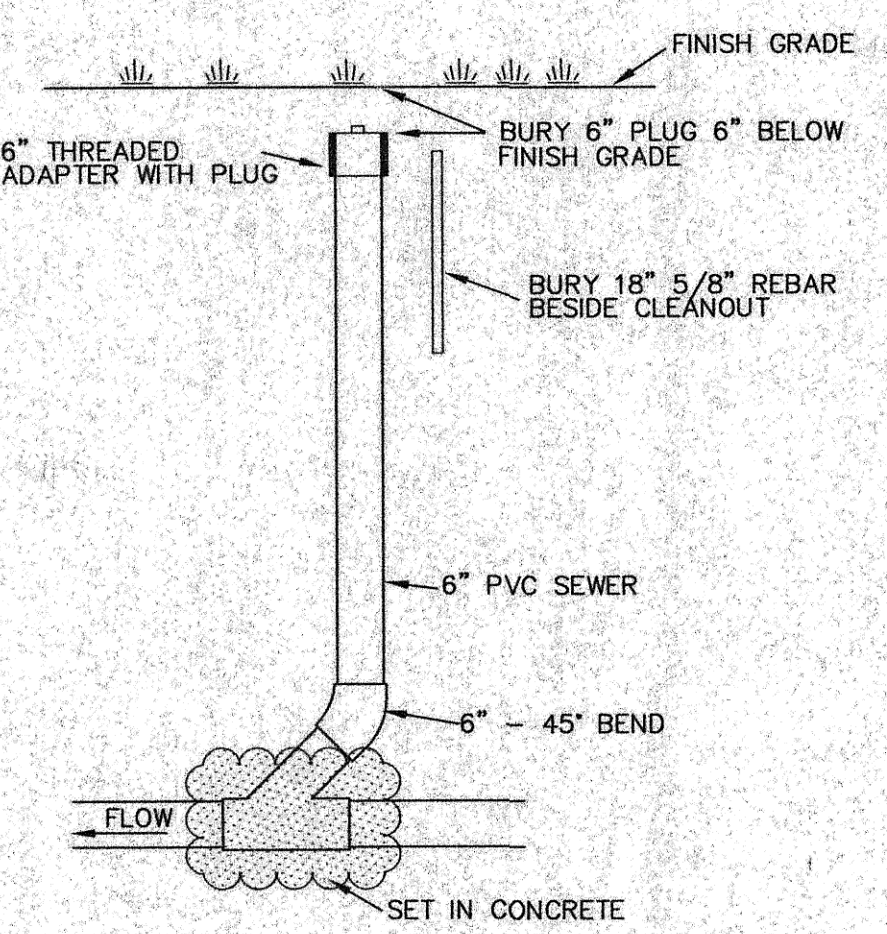


PLAN VIEW



FORCEMAIN CONNECTION  
SCALE: 1" = 2'

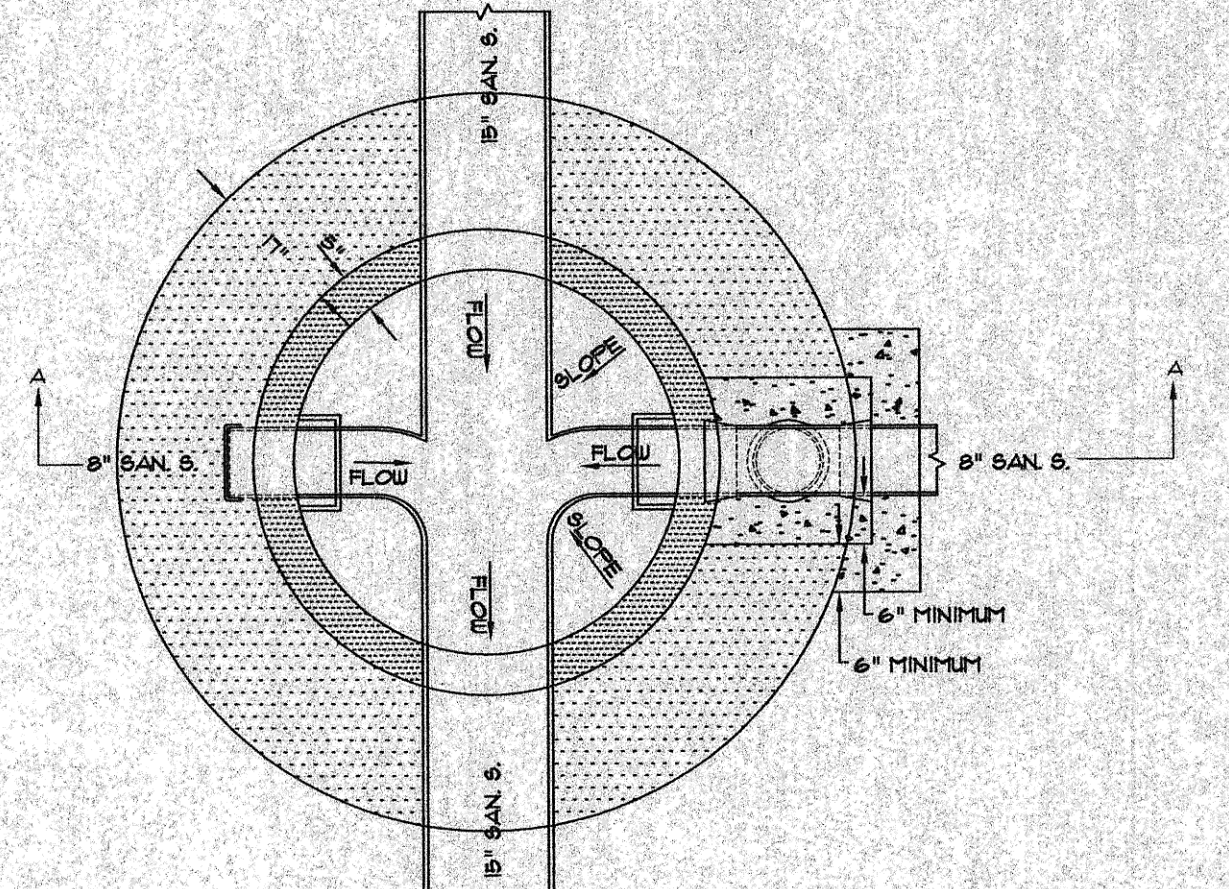


CLEAN OUT DETAIL

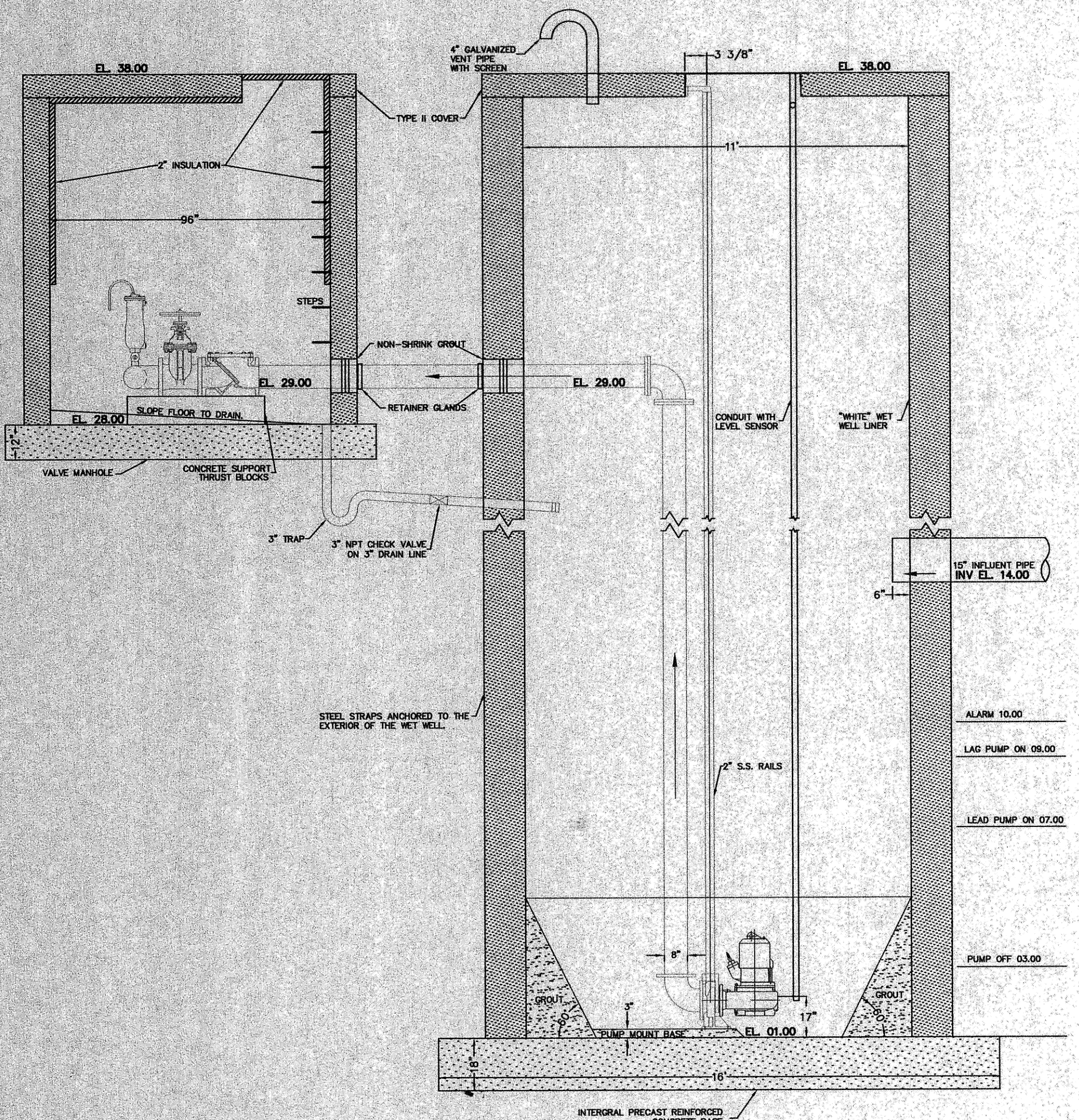
**APPROXIMATE QUANTITIES**

Construction Items	Quantity
Gravel	40 TON
4" Topsoil	40 CY
Class II Seeding and Mulching	2,300 SY
Borrow Excavation	800 CY
18" CMP Culvert	28 LF
18" Flared End Section	2 EA
Ductile Iron Fittings	Incidental

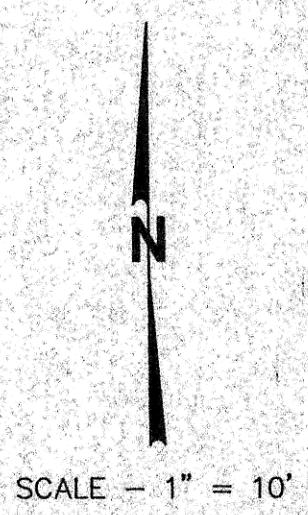
- CONSTRUCTION NOTES (SITE PLAN)**
- A 3/4" EXPANSION/ISOLATION JOINT SHALL BE CONSTRUCTED AROUND THE COVERS OF THE WET WELL AND THE VALVE PIT.
  - THE CONTRACTOR SHALL USE BORROW MATERIAL TO BUILD UP THE LIFT STATION SITE AND THE APPROACH TO THE SITE TO THE PROPOSED GRADES. FROM THE EDGE OF THE SITE SLOPE DOWN TO MATCH INTO THE EXISTING GROUND AT A 3:1 SLOPE. A BORROW SITE WILL BE PROVIDED APPROXIMATELY 350 FEET SOUTHEAST OF THE NEW LIFT STATION SITE. SEED AND MULCH ALL DISTURBED AREAS THAT DO NOT RECEIVE GRAVEL. PAYMENT FOR "FILL" IS BASED UPON THE DIFFERENCE BETWEEN EXISTING GRADES AND CONSTRUCTING THE SITE, APPROACH AND 3:1 SLOPES. THE TOTAL CALCULATED AMOUNT OF FILL MATERIAL, COMPACTED IN PLACE IS 800 CUBIC YARDS. SAID WORK SHALL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE BID FOR "BORROW EXCAVATION".
  - THE CONTRACTOR SHALL VERIFY THE ELEVATION OF THE GROUND WATER AT THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DEWATERING OR SOIL STABILIZATION (OTHER THAN USING SUBOBT GRAVEL) OF THE CONSTRUCTION SITE AS REQUIRED TO INSTALL THE PROPOSED UTILITIES.
  - PROTECT ALL SURVEY MONUMENTS. MONUMENTS DISTURBED OR DESTROYED SHALL BE REPLACED BY THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
  - THE EXISTING SOILS WILL BE ACCEPTABLE FOR BEDDING MATERIAL (PITRUN GRAVEL).
  - THE CONTRACTOR SHALL SALVAGE, STOCKPILE AND RESPREAD ANY TOPSOIL ALONG 40TH AVENUE SE AND THE LIFT STATION SITE THAT WILL BE DISTURBED DUE TO CONSTRUCTION OF THE IMPROVEMENTS. SAID WORK SHALL BE CONSIDERED INCIDENTAL TO THE "15" SANITARY SEWER" BID ITEM.
  - THE SPACING OF THE PIPES, PUMPS, VALVES, GROUT CIRCLE AND OTHER HARDWARE IN THE LIFT STATION AND VALVE MANHOLE SHALL BE SPACED AND SETUP TO ACCOMMODATE LARGER FUTURE PUMPS. THE CONTRACTOR SHALL VERIFY WITH THE MANUFACTURER THAT SPACING WILL ACCOMMODATE TWO FLYGT MODEL CP3201, 8" SUBMERSIBLE PUMPS AS A POSSIBLE FUTURE SET UP.
  - PLACE 4" OF GRAVEL ON THE LIFT STATION SITE. GRAVEL SHALL BE NDDOT CLASS 5, CLASS 13 OR BLENDED BASE COURSE.



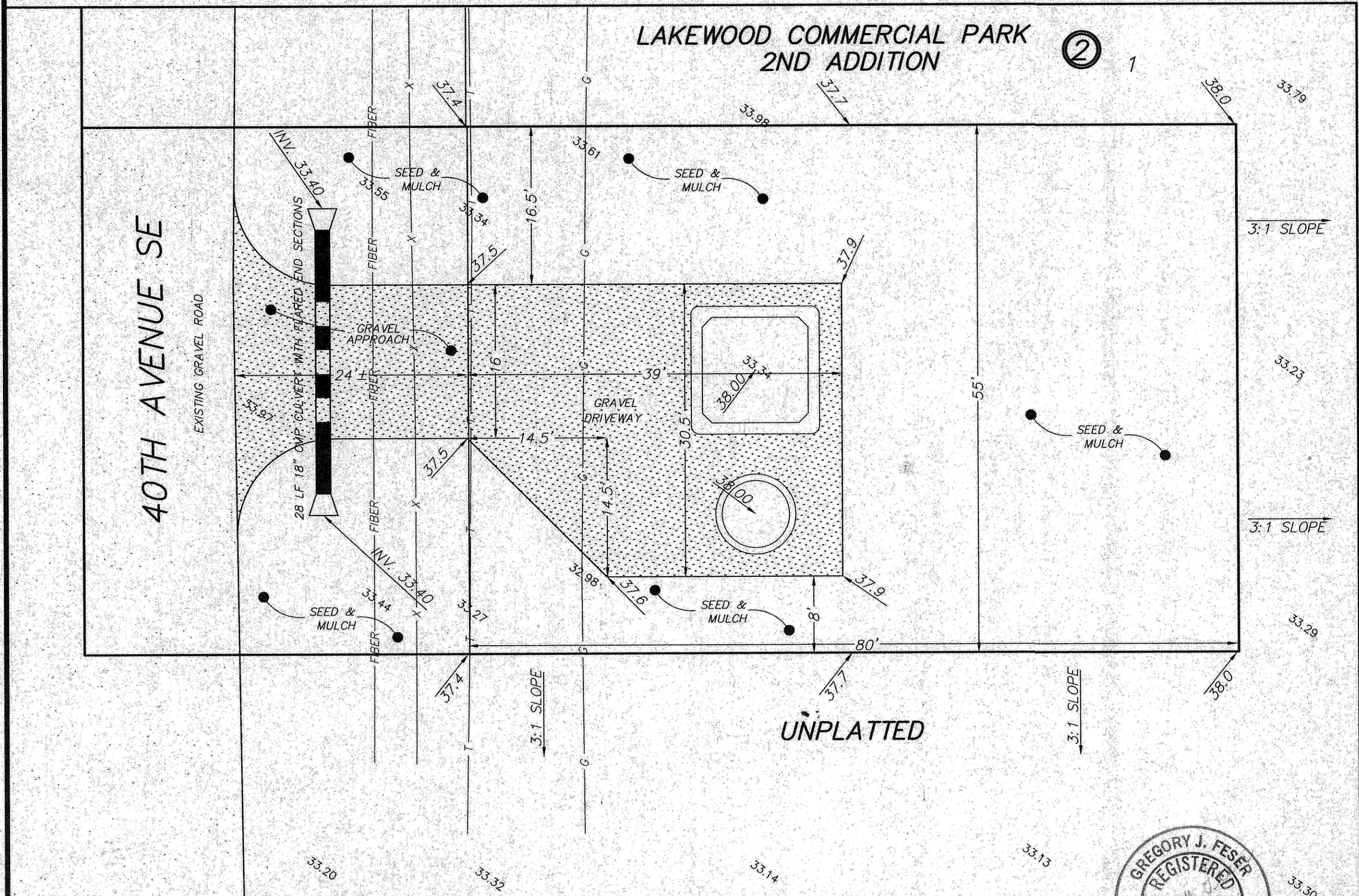
SECTION B - B



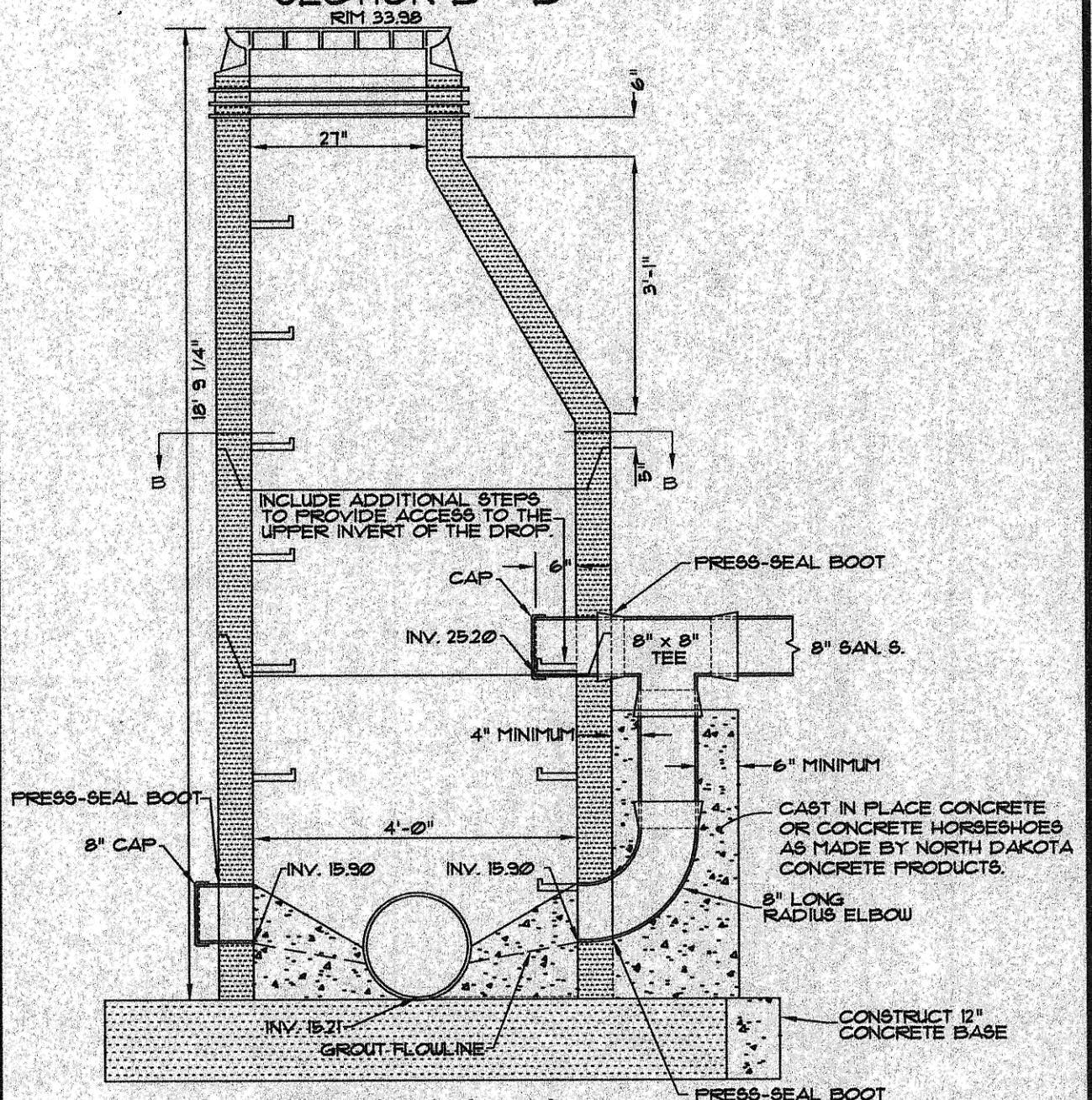
PROFILE VIEW  
DUPLIX PUMP STATION  
SCALE: 1" = 3'



SCALE - 1" = 10'



SITE PLAN



SECTION A - A  
CONCRETE DROP MANHOLE  
MANHOLE NO. 2  
NOT TO SCALE



**SWENSON, HAGEN & CO. P.C.**  
PLANNING CIVIL ENGINEERING SURVEYING  
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**DETAILS**

SEWER IMPROVEMENT DISTRICT NO. 28  
PROJECT NO. 2003-15 SHEET NO. C2 OF 2  
MANDAN, ND OCTOBER 30, 2003

Record Drawing