

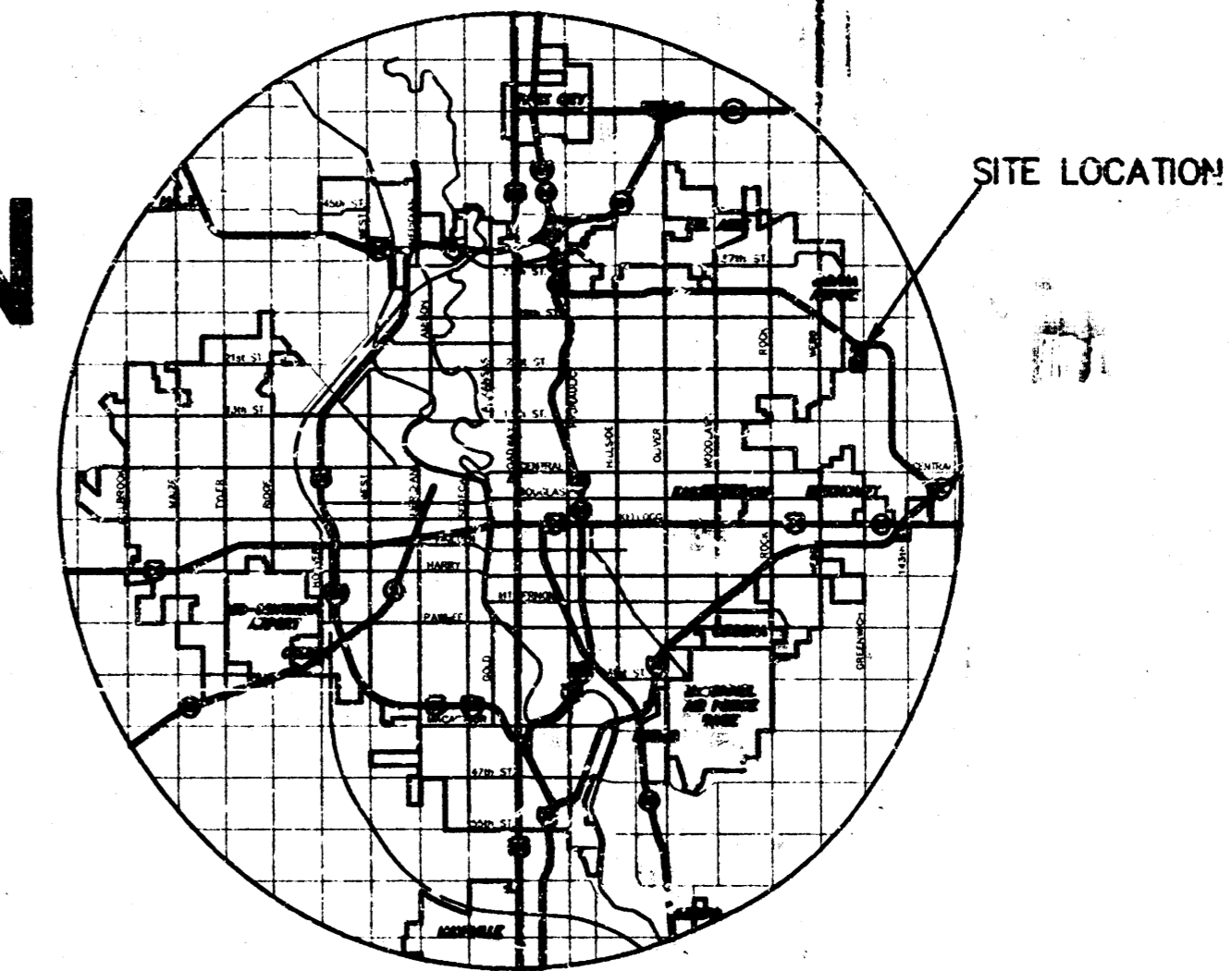
SANITARY SEWER PLANS GREENWICH BUSINESS PARK ADDITION WASTEWATER PUMP STATION AND FORCE MAIN

FOR LATERAL 136 WIS
PROJECT NO. 468 82694

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, CITY ENGINEER

INDEX CODE
743112



LOCATION MAP

GENERAL NOTES

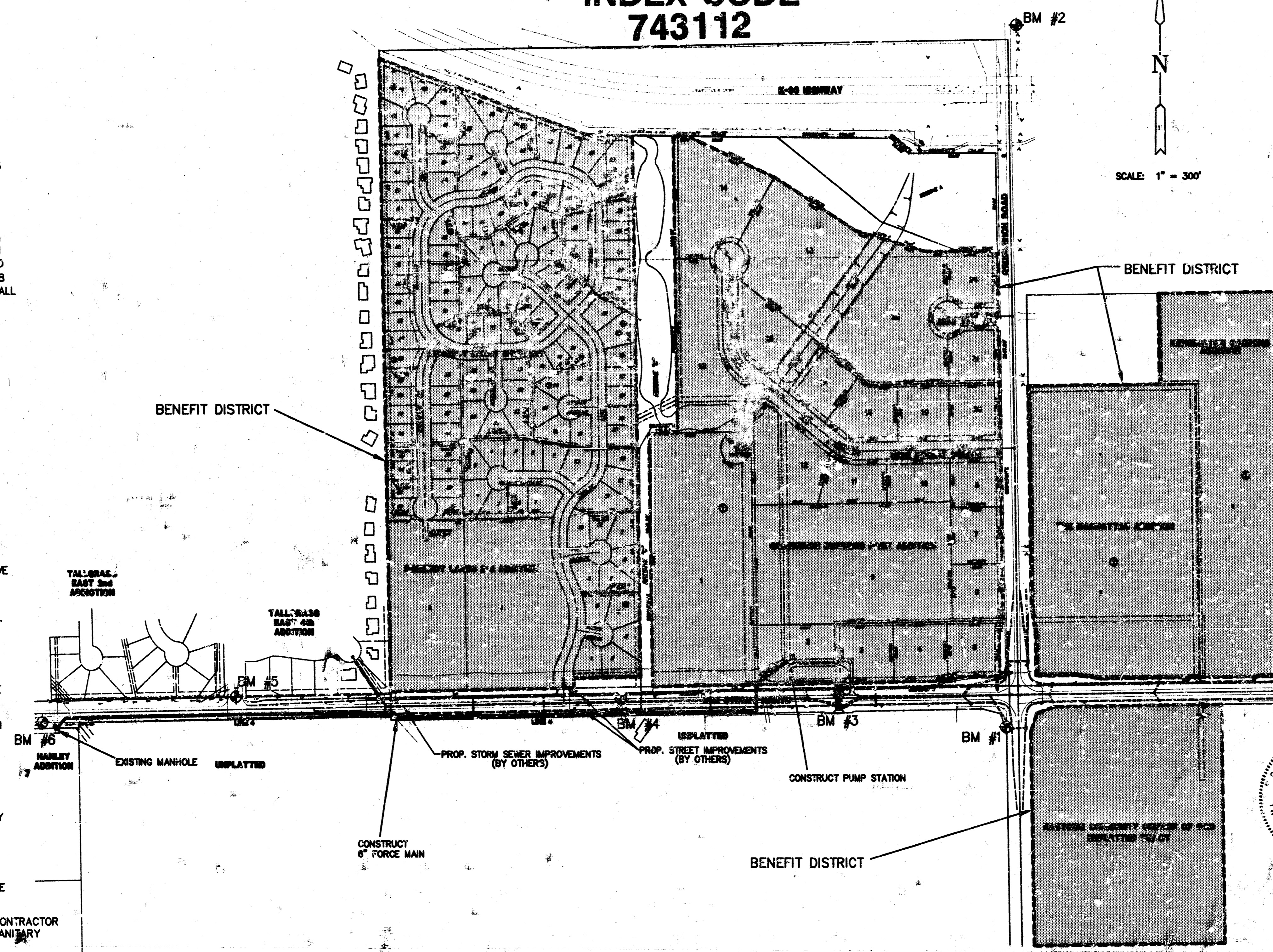
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
- CONTRACTOR SHALL PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE-CALL 1-800-344-7233
or 687-2470 (LOCAL WICHITA)

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

SOUTHWESTERN BELL TELEPHONE COMPANY 1-800-754-7630
CABLEVISION 262-0661
K.G.E. (GAS & ELECTRIC) 383-8600
CITY OF WICHITA WATER & SEWER MAINTENANCE 268-4908
IF THE CONTRACTOR DAMAGES EITHER GAS OR ELECTRIC LINES, HE SHALL IMMEDIATELY INFORM EMERGENCY PERSONNEL THROUGH 911.

- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE PLACED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WILL REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WILL REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
- COST OF EXCAVATION, HAULING, AND DUMPING OF EXCESS EXCAVATION SHALL BE SUBSIDIARY TO THE PROJECT.
- A PORTION OF EXCESS EXCAVATED MATERIAL SHALL BE MOUNDING AROUND MANHOLES WHICH EXTEND MORE THAN ONE (1) FOOT ABOVE THE EXISTING GROUND. SUCH MOUNDS SHALL BE CONSTRUCTED WITH A SIX (6) FOOT DIAMETER FLAT TOP WITH 4 TO 1 SIDE SLOPES DOWN TO THE ORIGINAL GROUND. THE ELEVATION OF THE FLAT TOP OF THE MOUND SHALL BE 0.4 FOOT BELOW THE TOP OF THE MANHOLE.
- ALL STUBS AND PLUGGED PIPES SHALL BE LOCATED WITH GREEN PLASTIC TAPE.
- PRIOR TO LAYING SEWER LINES USING EXISTING STUBS IN EXISTING MANHOLES, THE CONTRACTOR SHALL EXPOSE AND VERIFY THE ELEVATION, GRADE AND ALIGNMENT OF EXISTING STUBS AND NOTIFY THE ENGINEER OF ANY DEVIATION FROM THE PLAN. WHERE CONNECTION TO AN EXISTING MANHOLE THAT DOES NOT HAVE AN EXISTING STUB OR THE STUB IS UNSALEABLE DUE TO ELEVATION GRADE OR ALIGNMENT, THE CONTRACTOR SHALL RESHAPE THE EXISTING MANHOLE INVERT TO PROVIDE SMOOTH FLOW. THE COST OF RESHAPING EXISTING MANHOLE INVERTS IS INCIDENTAL TO THE PROJECT.
- TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
- ALL DISTURBED AREAS SHALL BE SEEDING WITH RYE GRASS AT A RATE OF 200 LBS./ ACRE WITHIN 10 DAYS OF CONSTRUCTION. COST SHALL BE SUBSIDIARY TO PROJECT.
- CONTRACTOR SHALL INSTALL SEDIMENT BARRIERS AS INDICATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING ALL EROSION CAUSED BY SANITARY SEWER CONSTRUCTION.

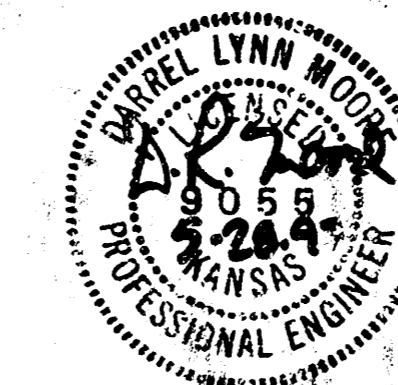


INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	DETAILS
3	DETAILS
4	LINE 4
5	LINE 4
6	LINE 4
7	FINAL PLAT

BENCHMARKS

- Booked N. 29th 2/13/98 AS BUILT RDL*
- BM #1 GREENWICH AND 21st. N. COW, 41' SOUTH AND 58' WEST OF IRON CTR. LINE BOTH. 17' SW OF ASPHALT, 14.2' EAST OF FACE P.P., 17' WEST OF FACE P.P. ELEV. = 173.98
 - BM #2 STEP SPIKE IN WEST SIDE P.P., 6th POLE NORTH OF K-96 ON EAST SIDE OF GREENWICH RD. ELEV. = 184.45
 - BM #3 "C" CUT C/L HEADWALL 3-8x4.5 BOXES, NORTH SIDE OF 21st STREET NORTH AT DITCH. ELEV. = 175.15
 - BM #4 R.R. SPIKE, NORTH EDGE OF ASPHALT AT C/L OF DRIVEWAY. SOUTH SIDE OF HOUSE #10715. ELEV. = 183.87
 - BM #5 "C" CUT TOP OF CURB AT NOSE OF MEDIAN CURB AT 21st STREET NORTH AND CLUBHOUSE DRIVE. ELEV. = 211.09
 - BM #6 R.R. SPIKE NORTH SIDE OF POWER POLE. ELEV. = 202.89



**GREENWICH BUSINESS PARK ADDITION
WASTEWATER PUMP STATION AND
FORCE MAIN FOR LATERAL 136 WIS**
PROJECT NAME

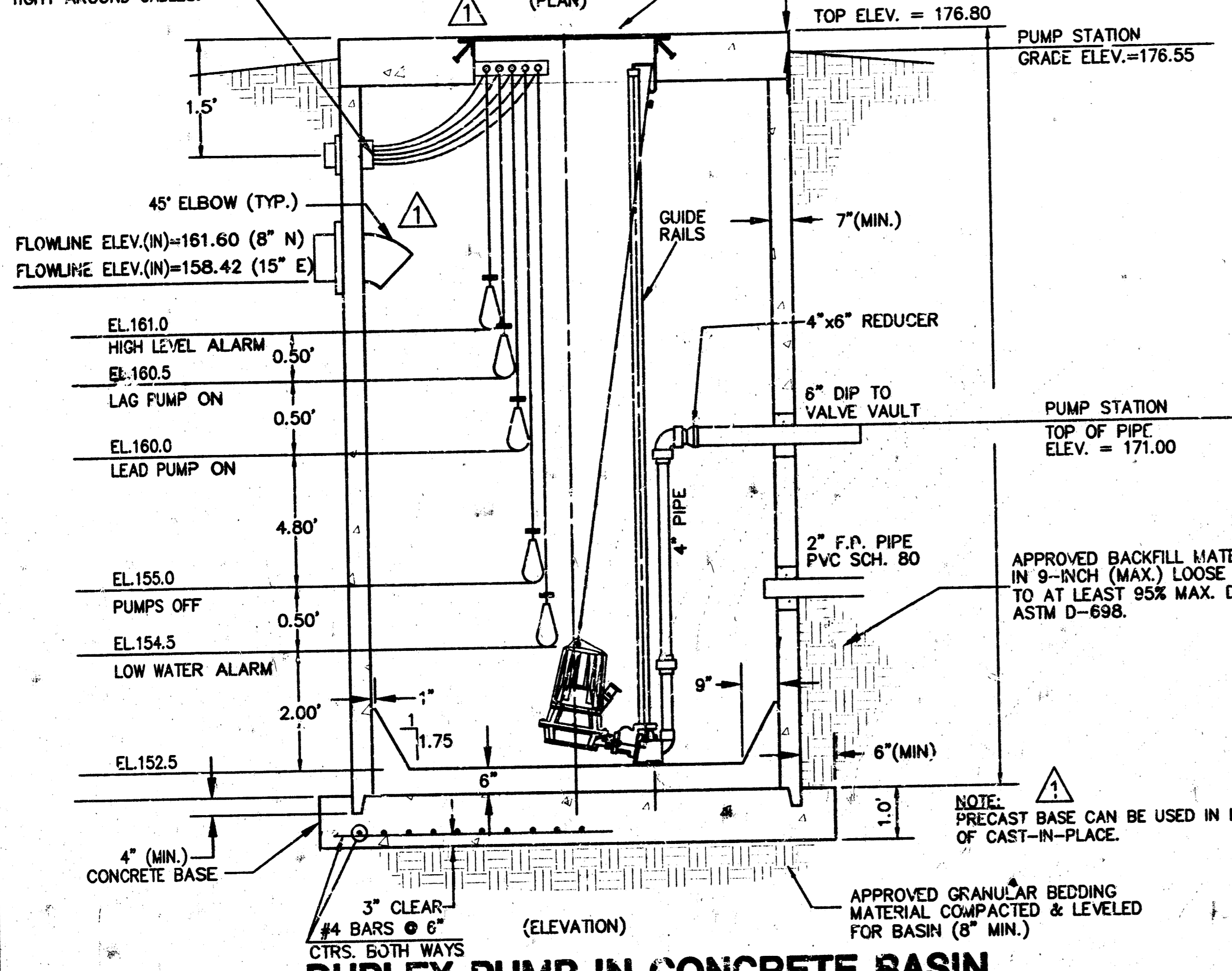
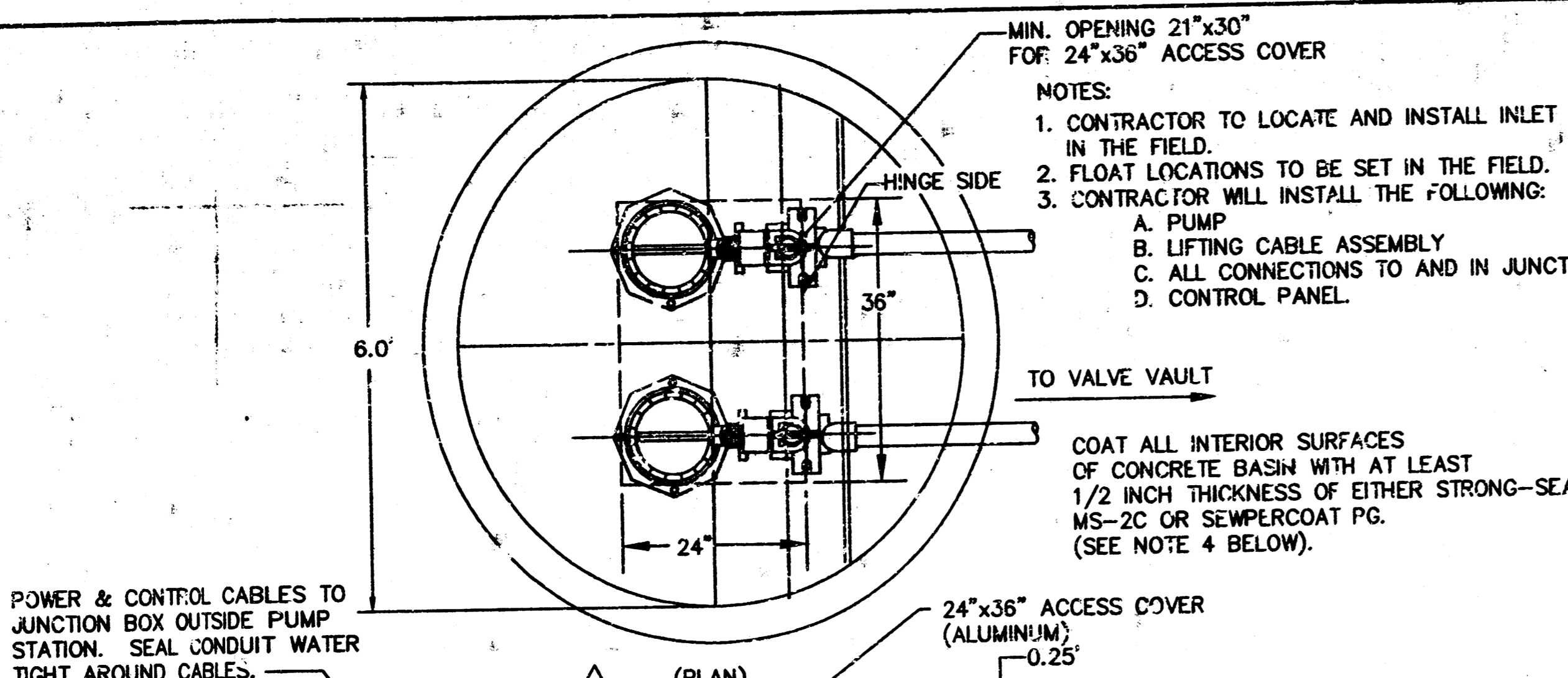
TITLE SHEET
SHEET TITLE

MID-KANSAS ENGINEERING
CONSULTANTS, INC.
411 N. WEBB ROAD
WICHITA, KS. 67206
316-684-9600

D.L.M.
DESIGN BY
5/27/97
DATE

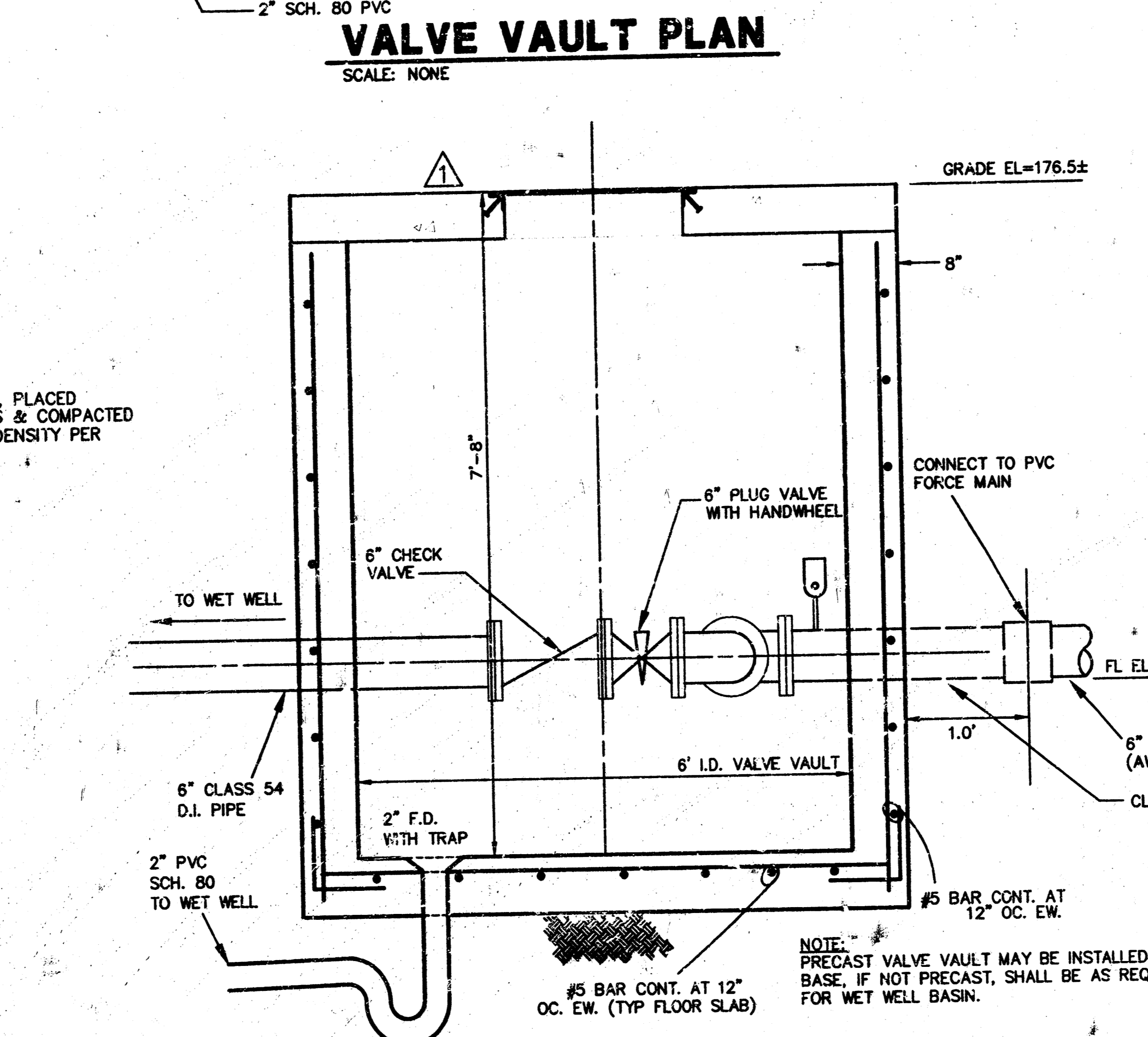
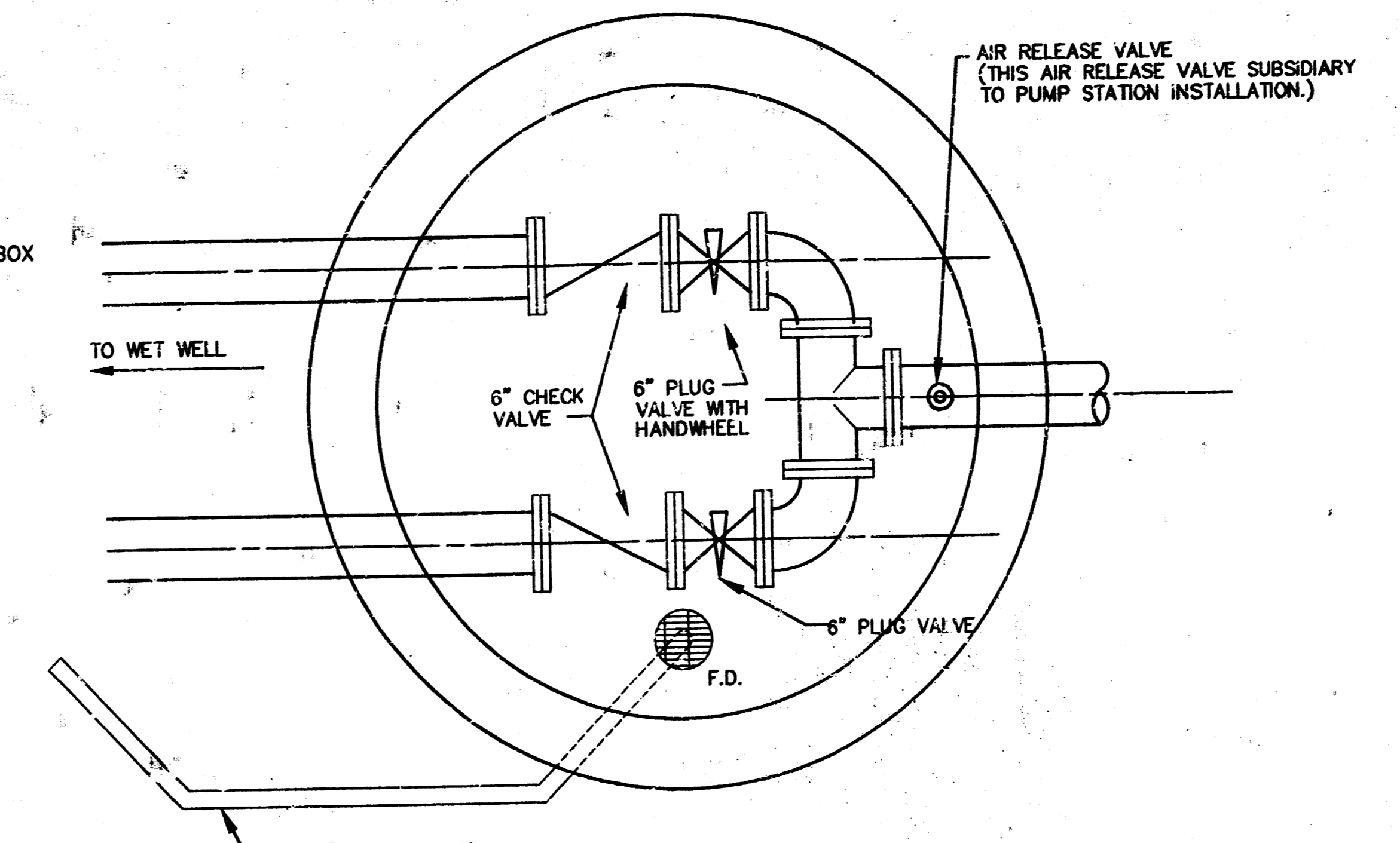
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96066-BT
JOB NO.

MKEC
CHECKED BY
1/7
SHEET OF



GENERAL NOTES - PRECAST MANHOLE SECTIONS FOR WET WELL & CONNECTIONS OF PIPES TO WET WELL

- ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
- NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
- APPROVED FLEXIBLE WATERSTOP GASKETS SHALL BE INSTALLED TO JOIN THE SEWER TO THE MANHOLE. THE SEWER PIPE SHALL BE SUPPORTED WITH CONCRETE ENCASEMENT A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
- ALL INSIDE SURFACES OF THE CONCRETE WET WELL SHALL BE COATED WITH EITHER STRONG-SEAL MS-2C OR SEMPERCOAT PG. DRY FILM THICKNESS OF 1/2 INCH (MIN.) TOTAL FOR TWO COATS.
- EXTERIOR MANHOLE WALLS SHALL BE COATED WITH 1 COAT OF COAL TAR, 8 MILS (MIN.) DRY FILM THICKNESS, SUITABLE FOR USE IN IMMERSION AND BELOW GRADE ENVIRONMENTS.
- JOINT SEALING COMPOUND SHALL MEET THE REQUIREMENTS OF AASHTO M198, TYPE B.
- PRECAST CYLINDERS SHALL BE SET AT LEAST 4 INCHES INTO THE CONCRETE BASE.
- LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
- REINFORCING STEEL SHALL BE INSTALLED IN THE WET WELL BASE AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE BASE REINFORCEMENT SHALL BE PLACED AT LEAST 3" ABOVE THE BOTTOM OF THE BASE SLAB. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PUMP STATION.
- PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE WET WELL SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. COST OF CRADLE WITHIN MANHOLE EXCAVATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PUMP STATION.



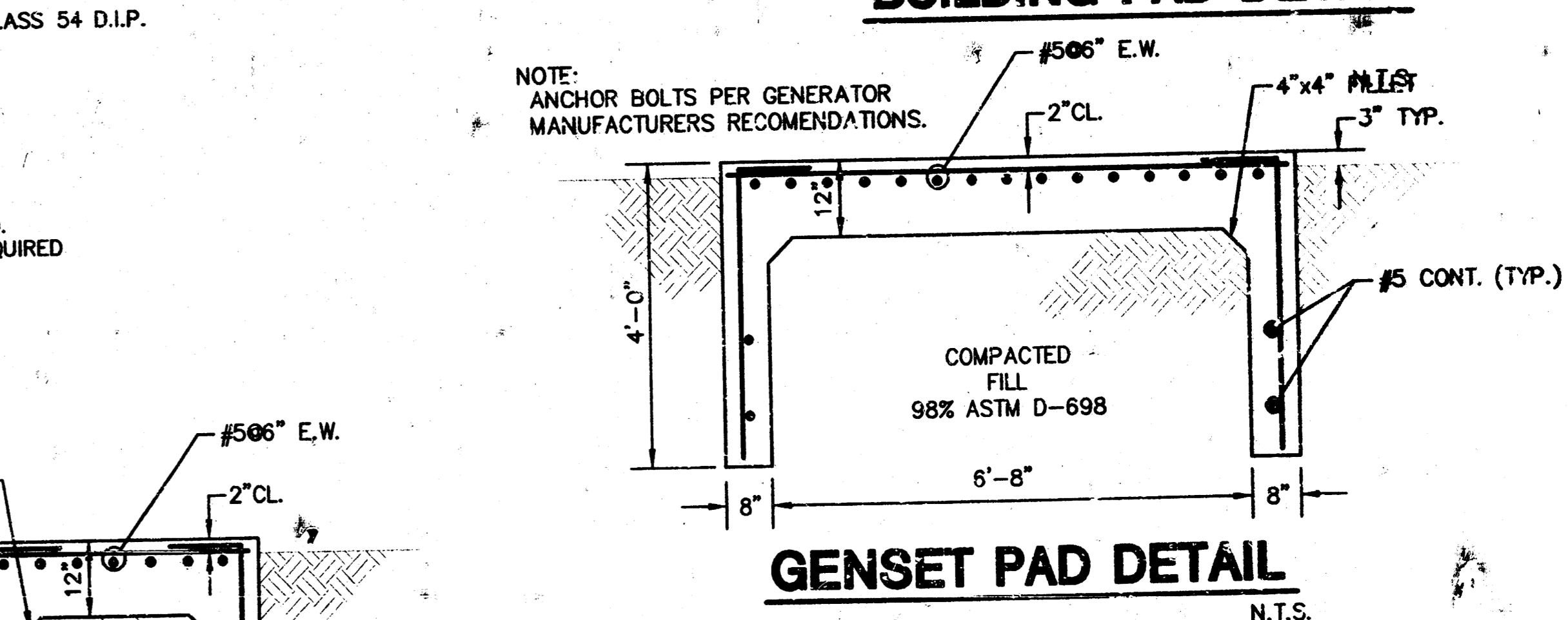
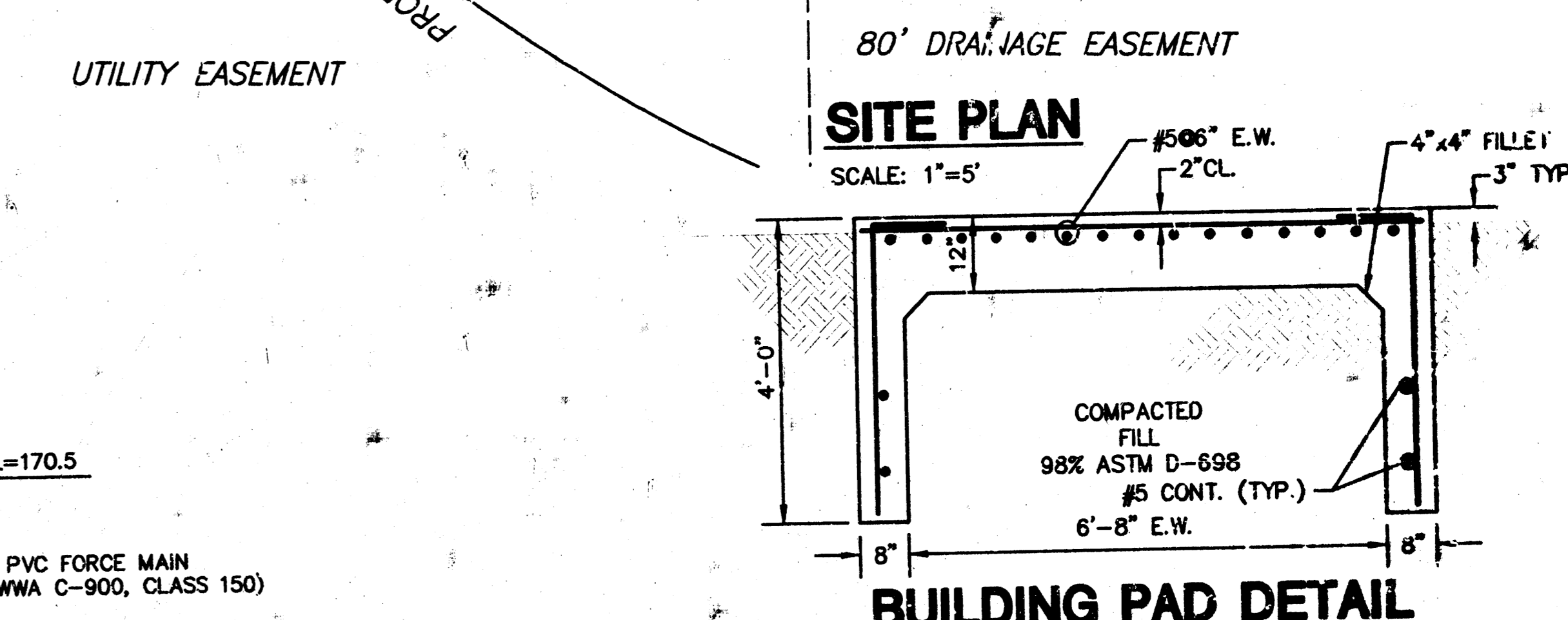
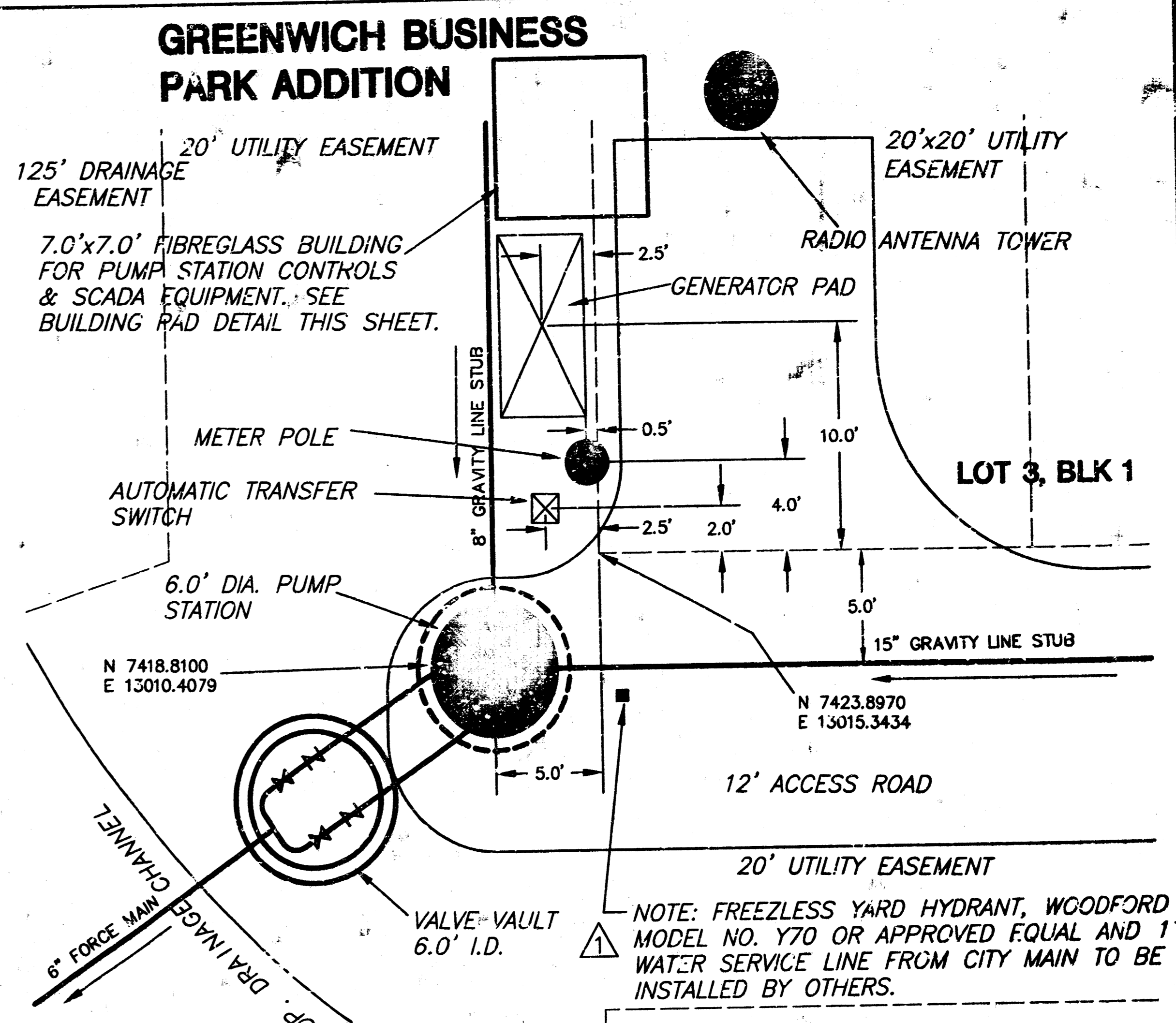
WET WELL MOUNTED PUMP STATION

MARK	TOP SLAB EL.	INFLUENT FLOW EL. (N)	INFLUENT SIZE	INFLUENT FLOW EL. (E)	SUCTION SIZE	EFFLUENT PIPE SIZE	WET WELL FLOOR EL.	FORCE MAIN DISCHARGE EL.
PS-1	176.80	161.60	8"(N) 15"(E)	158.42	N/A	6"	152.50	170.50 (FL)

PUMP SCHEDULE

NAME	TYPE	MINIMUM CAPACITY		MIN. CONN. SIZE	MOTOR				
		GPM	TDH (FT)		HP	RPM	SPEED	ELECT.	
PUMP #1	WASTEWATER	120	48	N/A	4"	9.4	1780	1	480/53/3
PUMP #2	WASTEWATER	120	48	N/A	4"	9.4	1780	1	480/53/3

- CONTRACTOR SHALL COORDINATE ELEVATIONS OF FLOATS WITH LARRY KOONTZ (CITY OF WICHITA) 529-9900.
- CONTRACTOR SHALL INSTALL 2 POSTS AND A CHAIN FOR GATE AT ENTRANCE OF PUMP STATION ACCESS ROAD OFF OF 21st STREET NORTH. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO PROJECT.



GENSET PAD DETAIL
 N.T.S.

NOTE: REQUIRED FOR EMERGENCY POWER GENERATOR.

GENSET PAD DETAIL
 N.T.S.

MID-KANSAS ENGINEERING CONSULTANTS, INC.
 411 N. WEBB ROAD
 WICHITA, KS. 67206
 316-684-9600

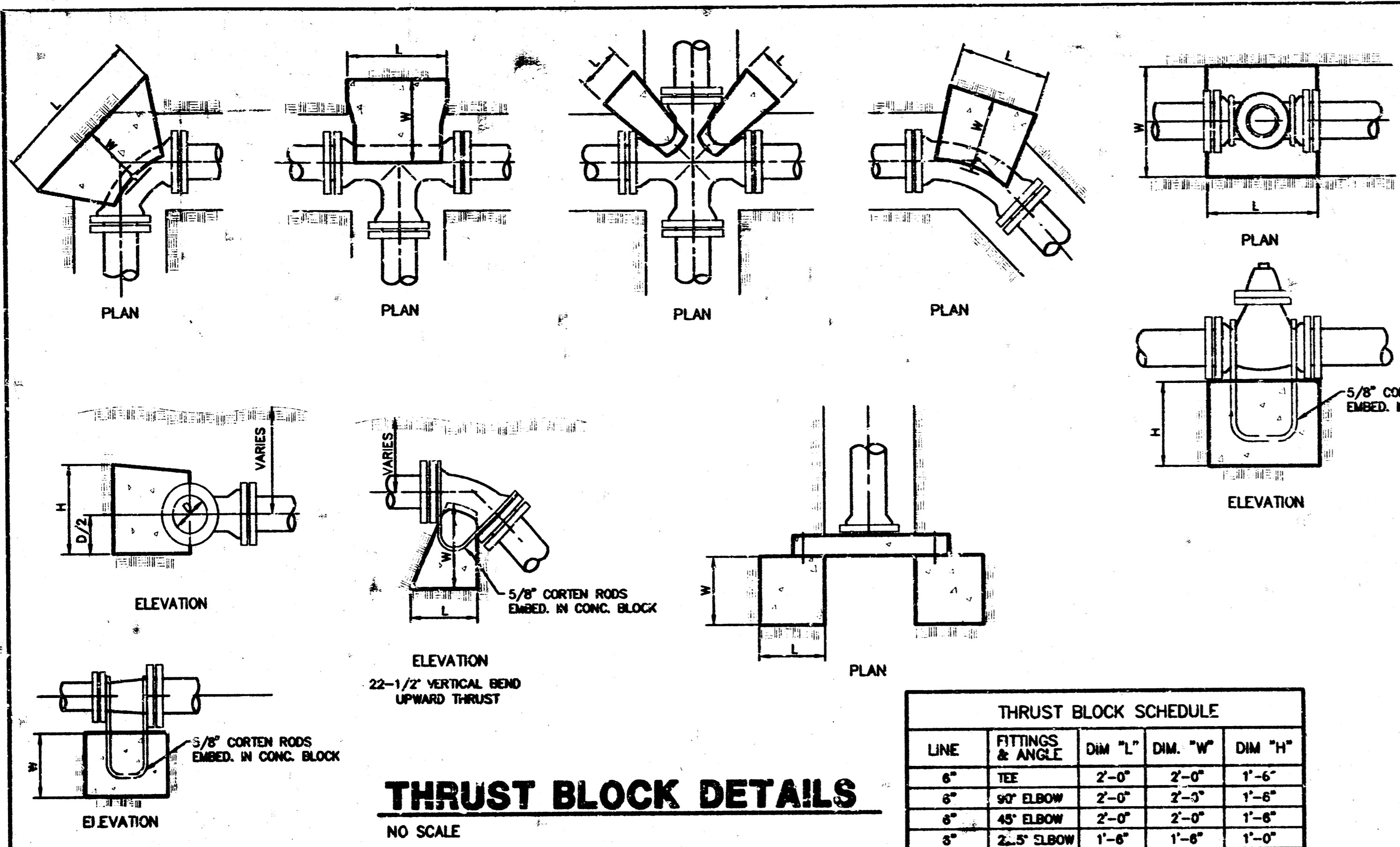
GREENWICH BUSINESS PARK WASTEWATER PUMP STATION AND FORCE MAIN FOR LATERAL 136 WIS
 PROJECT NAME
WET WELL MOUNTED PUMP STATION GENSET PAD
 SHEET TITLE

ADDENDUM
 RRT 6-10-97

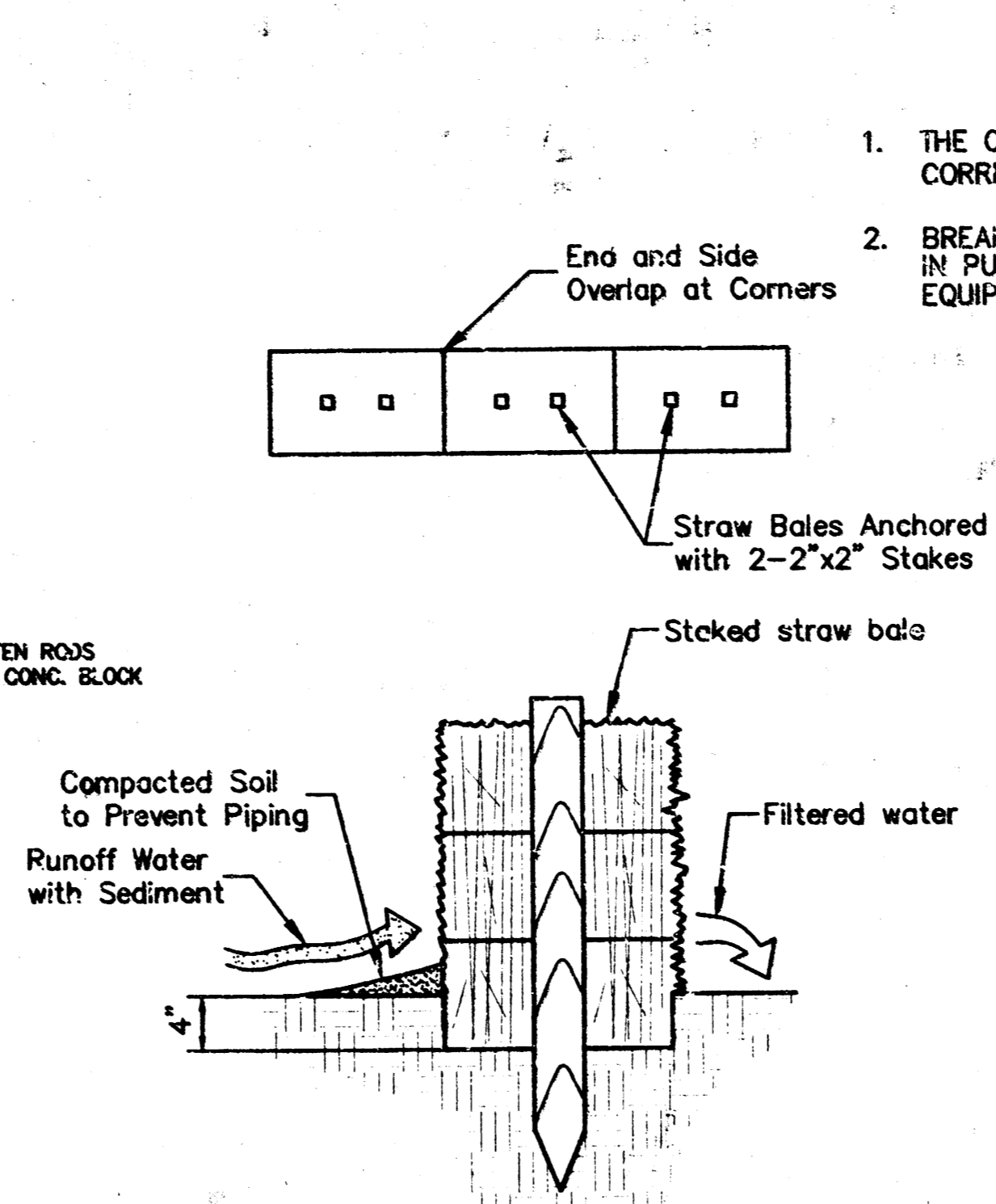
D.L.M. DESIGN BY
 R.S.P. DRAWN BY
 D.L.M. CHECKED BY

5/29/97 DATE
 6065BD1 JOB NO.
 2R / 7 SHEET OF

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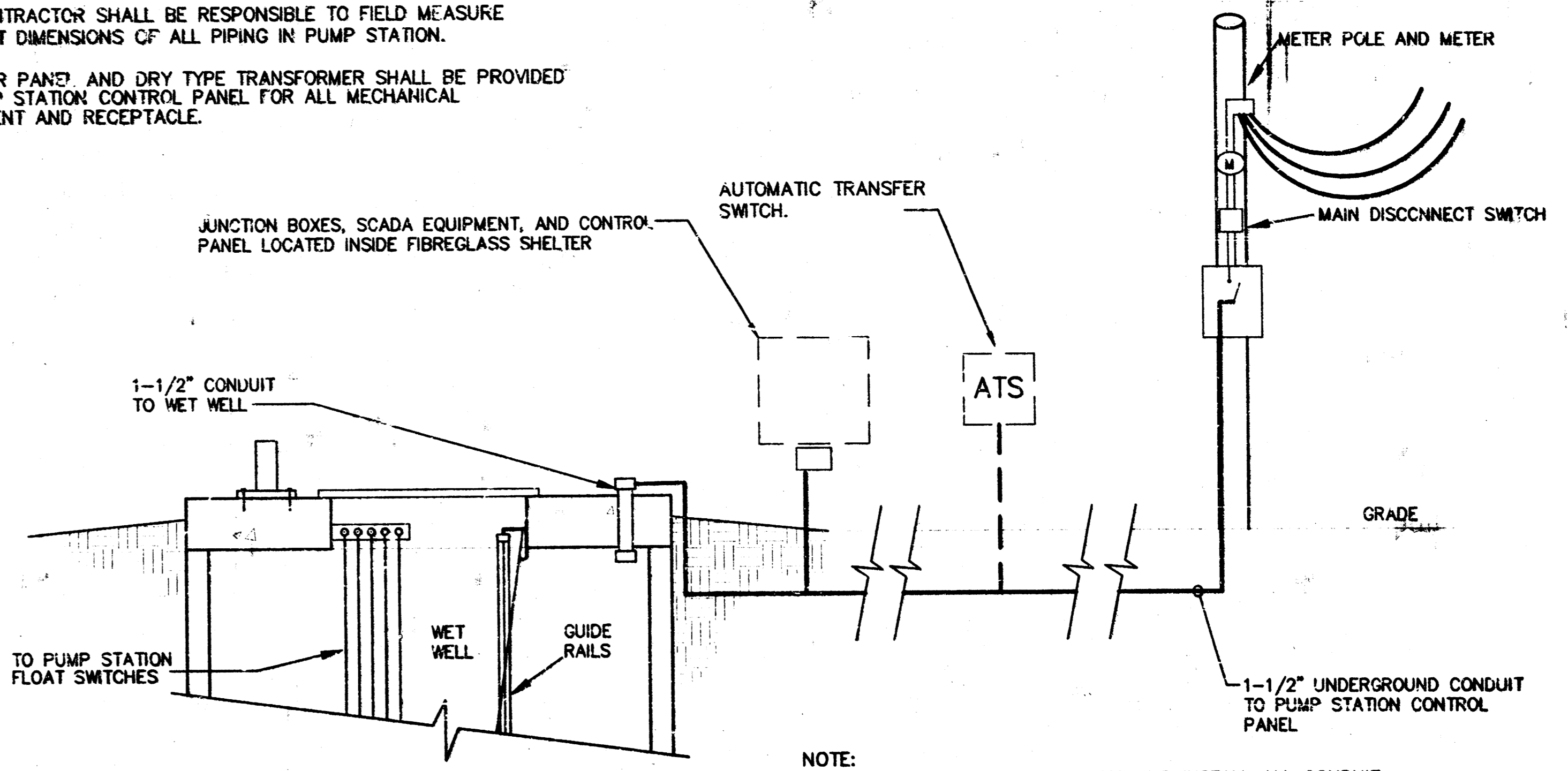
THRUST BLOCK DETAILS
NO SCALE



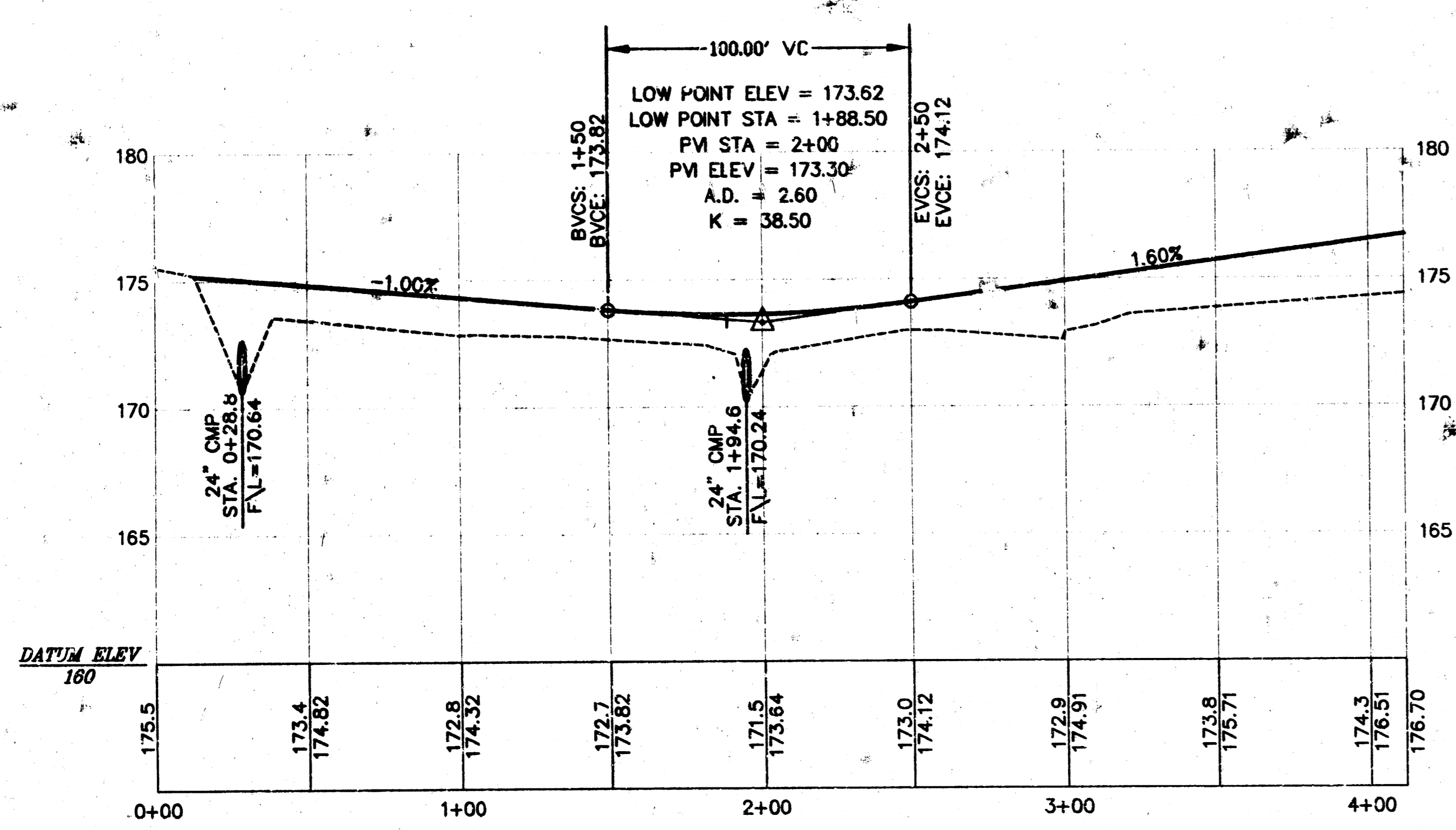
STRAW BALE SEDIMENT BARRIER
Note: Wedge loose straw between bales to prevent water from flowing between bales.

GENERAL NOTES

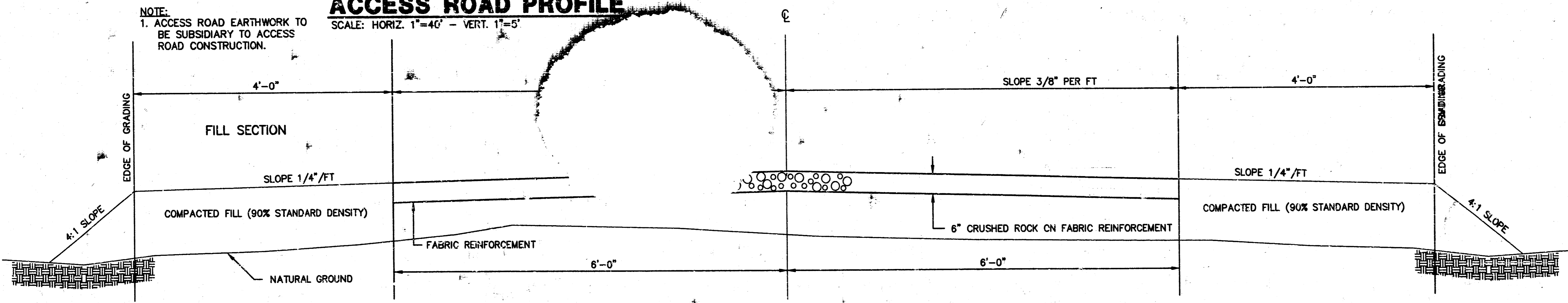
1. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD MEASURE CORRECT DIMENSIONS OF ALL PIPING IN PUMP STATION.
2. BREAKER PANEL AND DRY TYPE TRANSFORMER SHALL BE PROVIDED IN PUMP STATION CONTROL PANEL FOR ALL MECHANICAL EQUIPMENT AND RECEPTACLE.



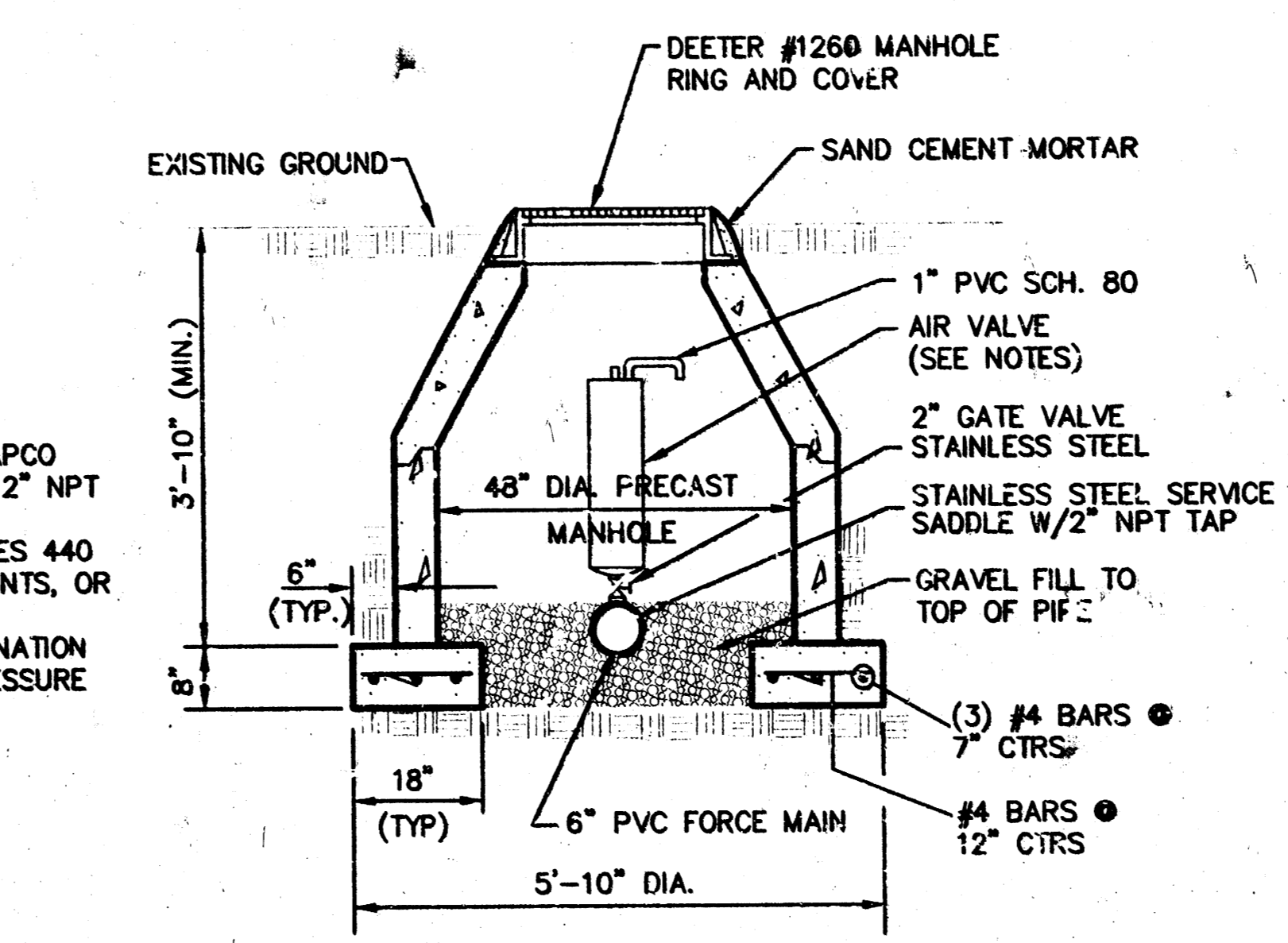
NOTE: THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, WIRING, DEVICES, SUPPORT PEDESTAL, GENSET, PAD, ATS UNIT AND OTHER WORK AND MATERIALS NECESSARY TO COMPLETE THE GENERATOR AND SWITCH INSTALLATION.



ACCESS ROAD PROFILE
SCALE: HORIZ. 1"=40' - VERT. 1"=5'

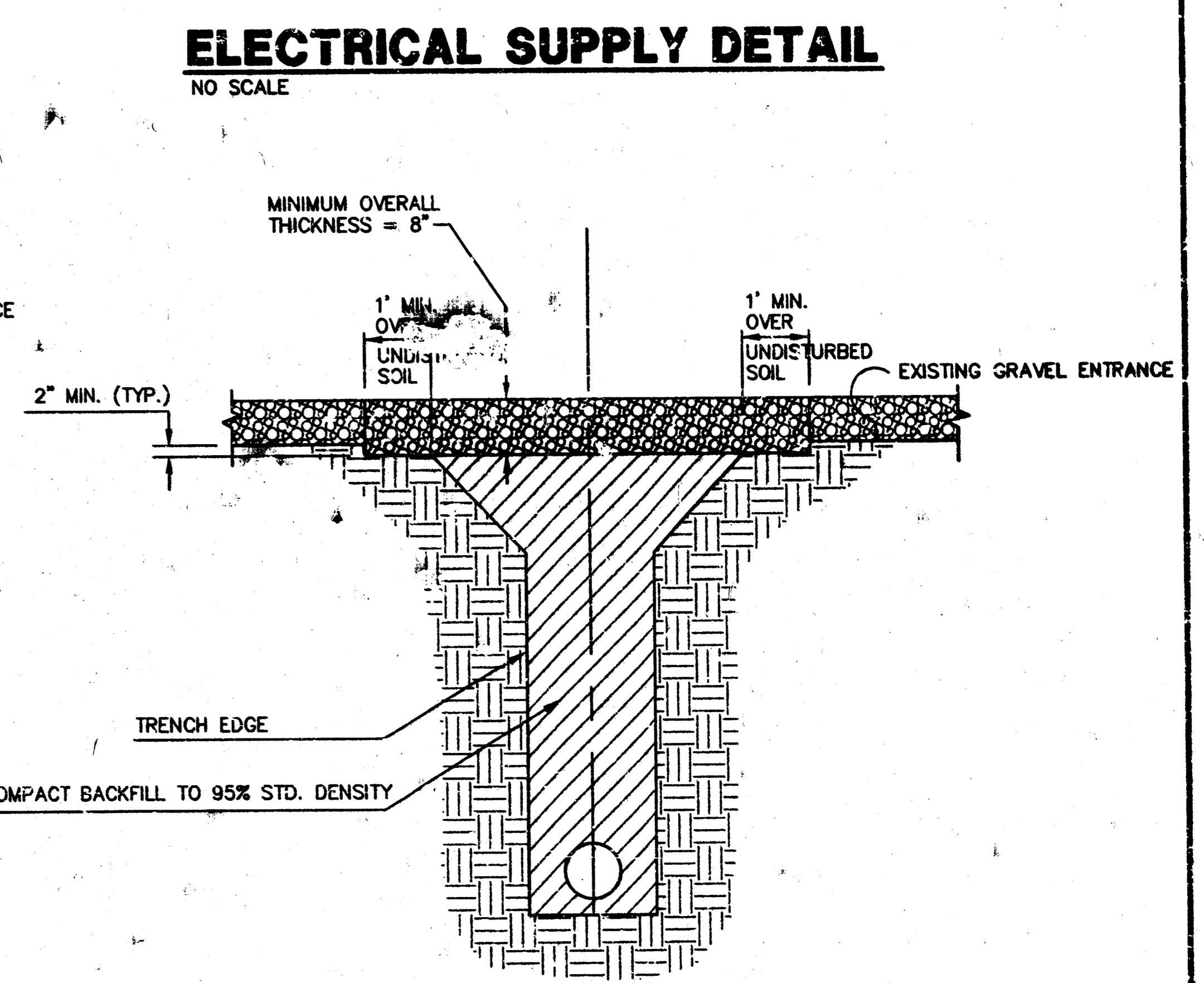


ACCESS ROAD TYPICAL SECTION
NO SCALE



AIR RELEASE VALVE ASSEMBLY & COMBINATION AIR VALVE ASSEMBLY
NOTE: TOP OF MANHOLE 0.4' ABOVE TOP OF GROUND ELEVATION

- NOTES:
1. AIR RELEASE VALVE SHALL BE APCO SERIES 400 SARY, MODEL 400, 2" NPT INLET, OR APPROVED EQUAL.
 2. COMBINATION VALVE-APCO SERIES 440 SCAV, MODEL 443 W/ATTACHMENTS, OR APPROVED EQUAL.
 3. AIR RELEASE VALVE AND COMBINATION AIR VALVES SHALL BE LOW PRESSURE SEATING.



ENTRANCE PATCHING DETAIL
NO SCALE

GREENWICH BUSINESS PARK WASTEWATER PUMP STATION AND FORCE MAIN FOR LATERAL 138 WIS
PROJECT NAME

MISC. DETAILS
SHEET TITLE

MID-KANSAS ENGINEERING CONSULTANTS, INC.
411 N. WEBB ROAD
WICHITA, KS. 67205
316-684-9603

M.K.E.C. DESIGN BY: M.K.E.C. DRAWN BY: M.K.E.C. CHECKED BY:
 5/27/97 DATE: 506623 JOB NO. 3 / 7 SHEET/JOF

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**GREENWICH BUSINESS PARK
FORCE MAIN
PROJ. # 488-82634**

TALLEGRASS EAST 4th ADDITION

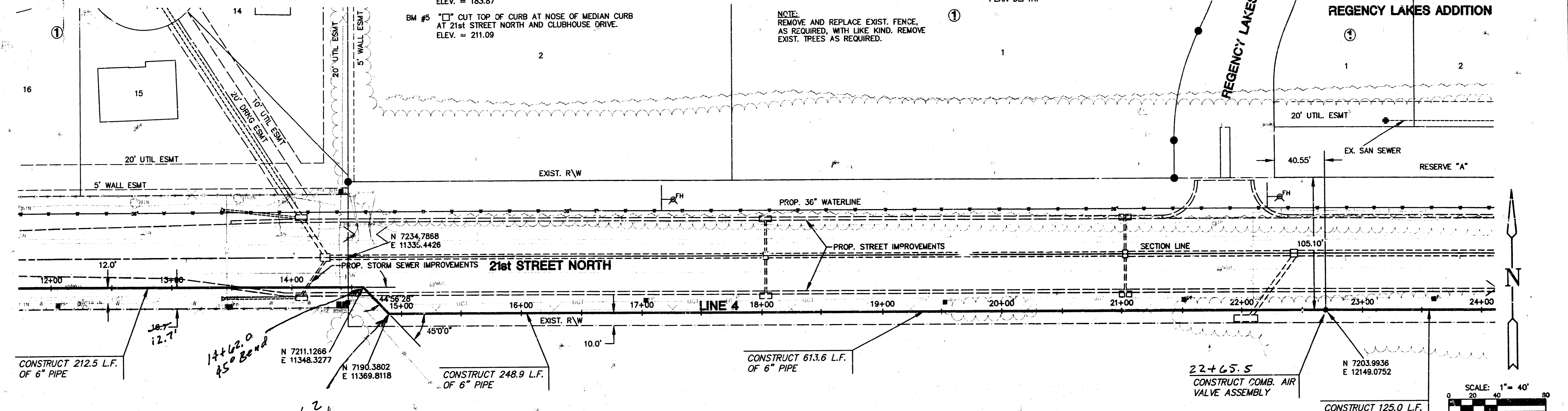
REGENCY LAKES 2nd ADDITION

REGENCY LAKES ADDITION

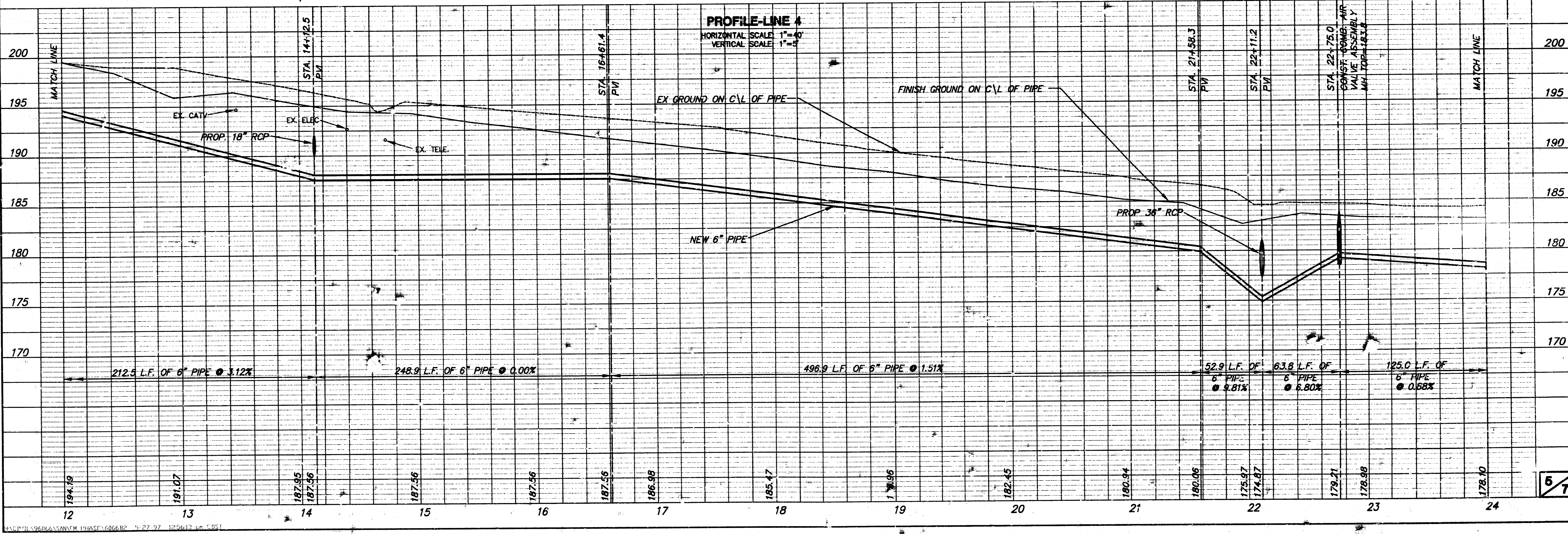
BENCHMARKS
 BM #4 R.R. SPIKE, NORTH EDGE OF ASPHALT AT C.V.L. OF DRIVEWAY, SOUTH SIDE OF HOUSE #10715. ELEV. = 183.87
 BM #5 "X" CUT TOP OF CURB AT NOSE OF MEDIAN CURB AT 21st STREET NORTH AND CLUBHOUSE DRIVE. ELEV. = 211.09

NOTE:
 REMOVE AND REPLACE EXIST. FENCE, AS REQUIRED, WITH LIKE KIND. REMOVE EXIST. TREES AS REQUIRED.

NOTE:
 DEPTH OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO VERIFY UNDERGROUND UTILITY DEPTH, AT APPROPRIATE CROSSINGS, PRIOR TO EXCAVATION. CONTRACTOR TO NOTIFY THE ENGINEER IF THE EXISTING UTILITY DEPTH CONFLICTS WITH PROPOSED PLAN DEPTH.



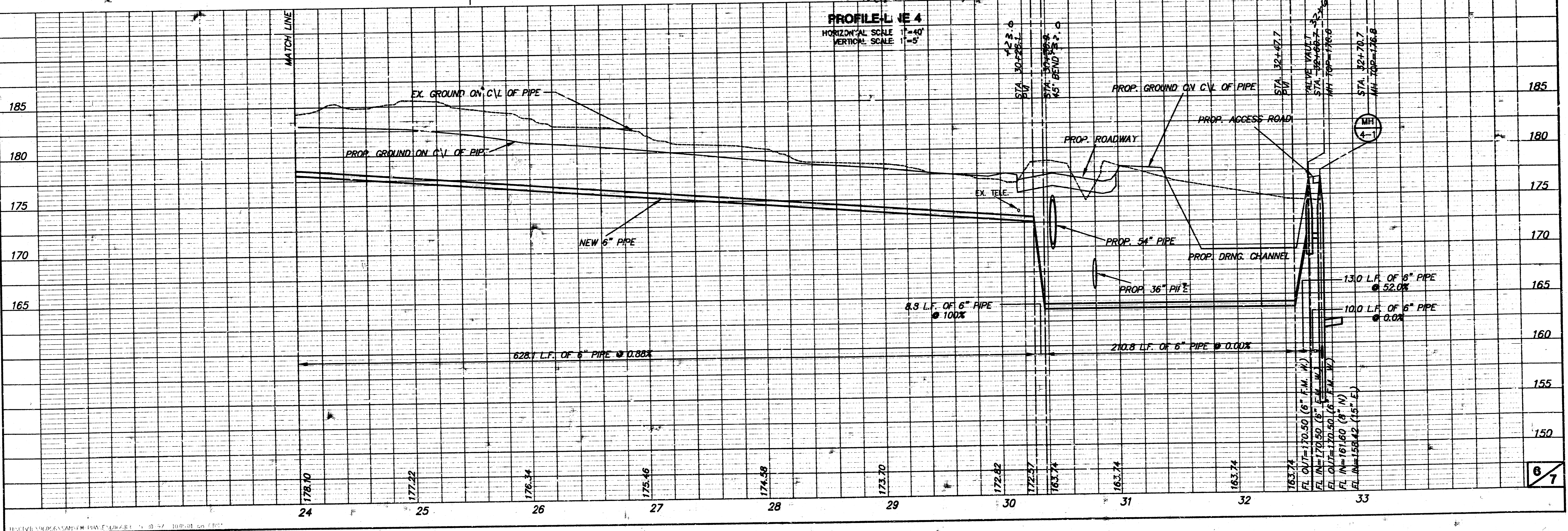
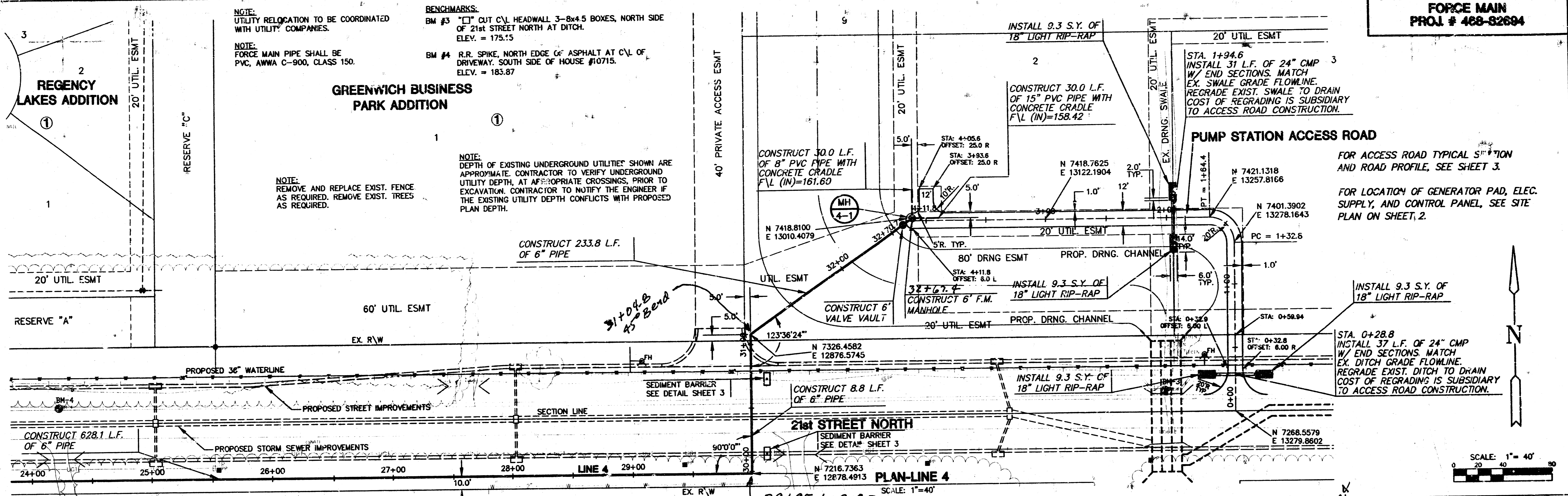
PLAN-LINE 4
SCALE: 1"=40'



PROFILE-LINE 4
 HORIZONTAL SCALE: 1"=40'
 VERTICAL SCALE: 1"=5'

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**GREENWICH BUSINESS PARK
FORCE MAIN
PROJ # 468-82694**



R. CIVIL 190606 SAN/P/PHASE 060603 F1 May 30 10:07:15 1997

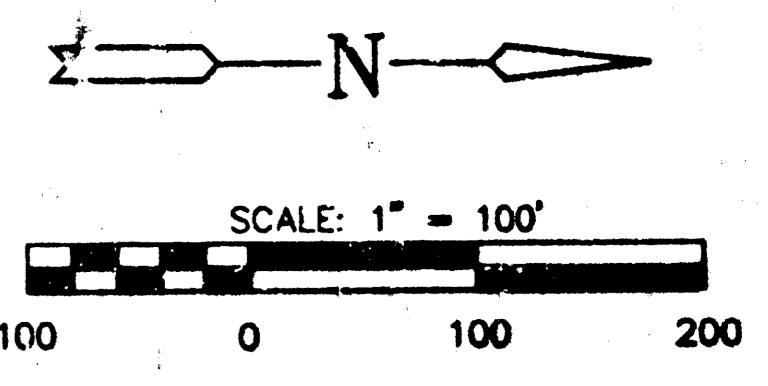
FINAL PLAT GREENWICH BUSINESS PARK ADDITION

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

N.W. COR. SE. 1/4
SEC. 4, TWP. 27 R. 2E.

S.W. COR. SE. 1/4
SEC. 4, TWP. 27 R. 2E.

Lot	Blkts	Min. Pod Elev. (City Datum)	Min. Pod Elev. (USGS Datum)
1		178.6	1368.0
2	1	177.9	1365.3
3	1	177.9	1365.3
4	1	177.9	1365.3
5	1	177.9	1365.3
6	1	178.9	1366.3
7	1	178.9	1366.3
8	1	178.3	1365.7
9	1	178.1	1365.5
10	1	178.2	1365.6
11	1	178.2	1365.6
12	1	178.2	1365.6
13	1	178.4	1366.8
14	1	180.6	1392.0
15	1	179.1	1364.5
16	1	178.8	1366.2
17	1	178.6	1366.0
18	1	178.6	1366.0
19	1	178.6	1366.0
20	1	178.6	1366.0
21	1	178.6	1366.0
22	1	178.6	1366.0



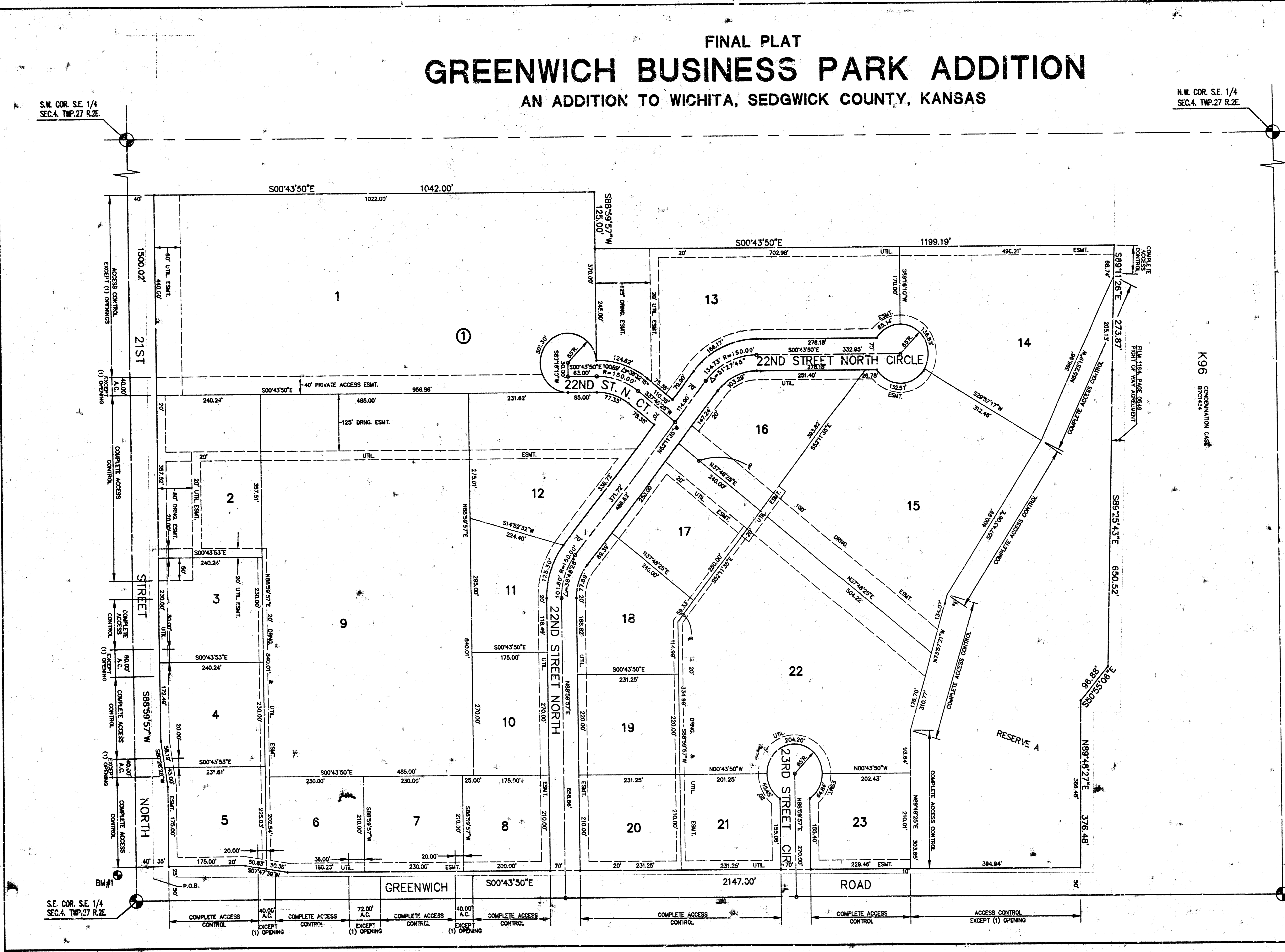
NOTES
BUILDING SETBACKS AND ADDITIONAL SETBACK REQUIREMENTS ARE PER THE DEVELOPMENT PLAN AS ON FILE WITH THE PLANNING DEPARTMENT.

LEGEND
- - IRON

BENCHMARK

BM#1 GREENWICH AND 21ST. ST. N. COW, 41' SOUTH AND 58' WEST OF IRON CTR. LINE BOTH, 17.0' SW OF ASPHALT, 14.2' EAST OF FACE P.P. 17.0' WEST OF FACE P.P. ELEV. = 173.98

N.E. COR. SE. 1/4
SEC. 4, TWP. 27 R. 2E.



14-3-15