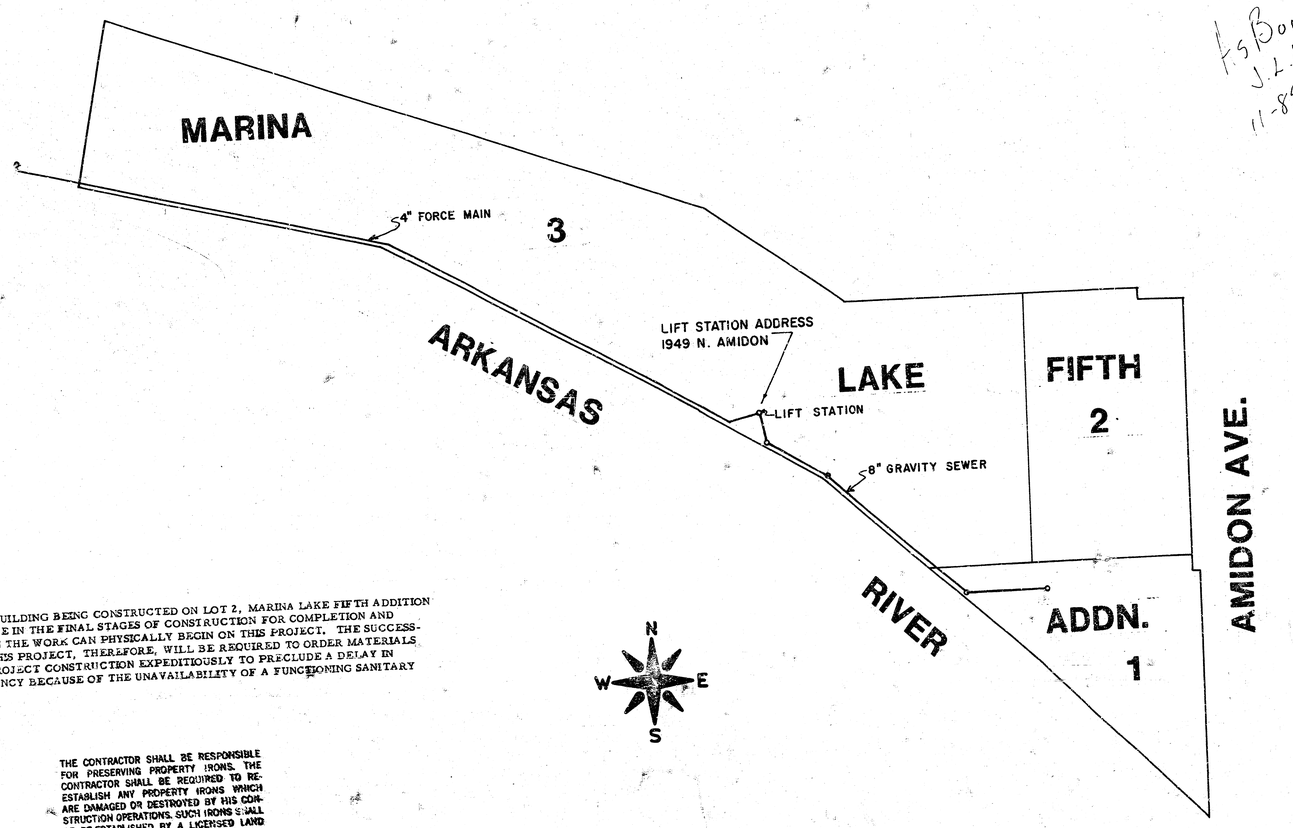
LAT. 128A, SANITARY SEWER NO. 22
INCLUDING LIFT STATION & FORCE MAIN

CITY OF WICHITA, KANSAS

R. W. BRUGGEMAN
DIRECTOR OF ENGINEERING/CITY ENGINEER

PROJ. NO. 468-76-245-81128-000-000-001

F's Built
J.L.L.
11-82



NOTE: THE NEW BUILDING BEING CONSTRUCTED ON LOT 2, MARINA LAKE FIFTH ADDITION WILL PROBABLY BE IN THE FINAL STAGES OF CONSTRUCTION FOR COMPLETION AND OCCUPANCY WHEN THE WORK CAN PHYSICALLY BEGIN ON THIS PROJECT. THE SUCCESSFUL BIDDER ON THIS PROJECT, THEREFORE, WILL BE REQUIRED TO ORDER MATERIALS AND SCHEDULE PROJECT CONSTRUCTION EXPEDITIOUSLY TO PRECLUDE A DELAY IN BUILDING OCCUPANCY BECAUSE OF THE UNAVAILABILITY OF A FUNCTIONING SANITARY SEWER SYSTEM.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO 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 OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.

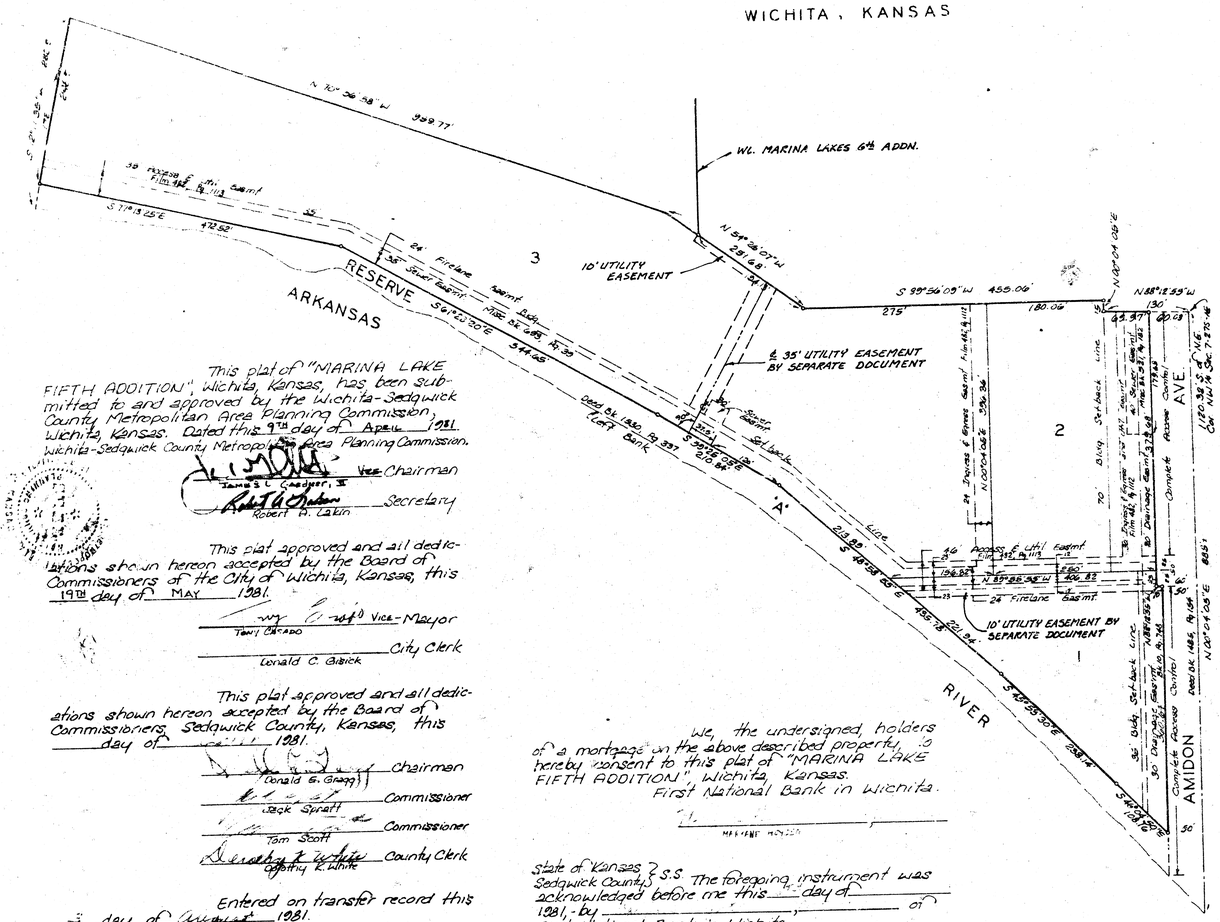
DONALD E. SCHNEIDER
LICENSED
6311
KANSAS
PROFESSIONAL ENGINEER

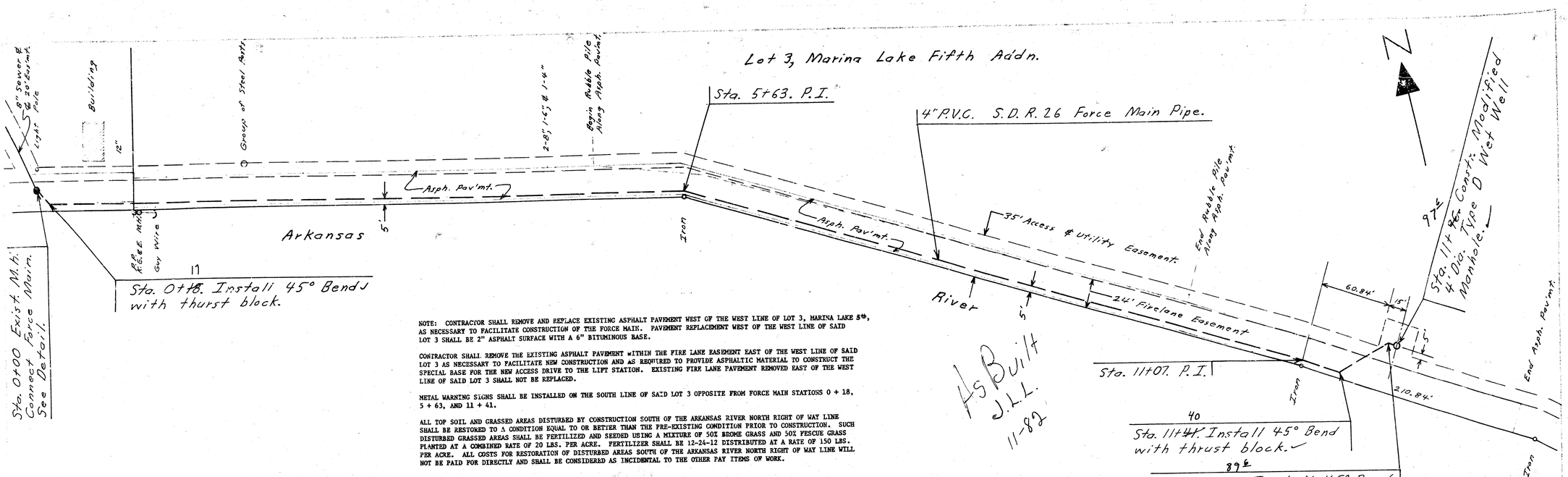
SHT. NO. 1 OF 6 1/6

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MARINA LAKE FIFTH ADDITION

WICHITA, KANSAS


N 70° 56' 58" W 959.77'
WL. MARINA LAKES 6th ADDN.
30' Access & Util. Easmt.
24' Firelane Easmt.
35' Street Easmt.
S 71°13'25"E 912.52'
N 54° 26' 07" W 251.68'
10' UTILITY EASEMENT
3
RESERVE "A"
ARKANSAS
S 69°40'35"E 344.45'
Deed Bk. 1880, Pg. 337
Left Bank
4' UTILITY EASEMENT BY SEPARATE DOCUMENT
S 99°56'09" W 455.06'
N 88°12'55" W
275'
180.06'
130'
43.37'
60.08'
2
1
Set Back
Set Back
Set Back



NOTE: CONTRACTOR SHALL REMOVE AND REPLACE EXISTING ASPHALT PAVEMENT WEST OF THE WEST LINE OF LOT 3, MARINA LAKE 5th, AS NECESSARY TO FACILITATE CONSTRUCTION OF THE FORCE MAIN. PAVEMENT REPLACEMENT WEST OF THE WEST LINE OF SAID LOT 3 SHALL BE 2" ASPHALT SURFACE WITH A 6" BITUMINOUS BASE.

CONTRACTOR SHALL REMOVE THE EXISTING ASPHALT PAVEMENT WITHIN THE FIRE LANE EASEMENT EAST OF THE WEST LINE OF SAID LOT 3 AS NECESSARY TO FACILITATE NEW CONSTRUCTION AND AS REQUIRED TO PROVIDE ASPHALTIC MATERIAL TO CONSTRUCT THE SPECIAL BASE FOR THE NEW ACCESS DRIVE TO THE LIFT STATION. EXISTING FIRE LANE PAVEMENT REMOVED EAST OF THE WEST LINE OF SAID LOT 3 SHALL NOT BE REPLACED.

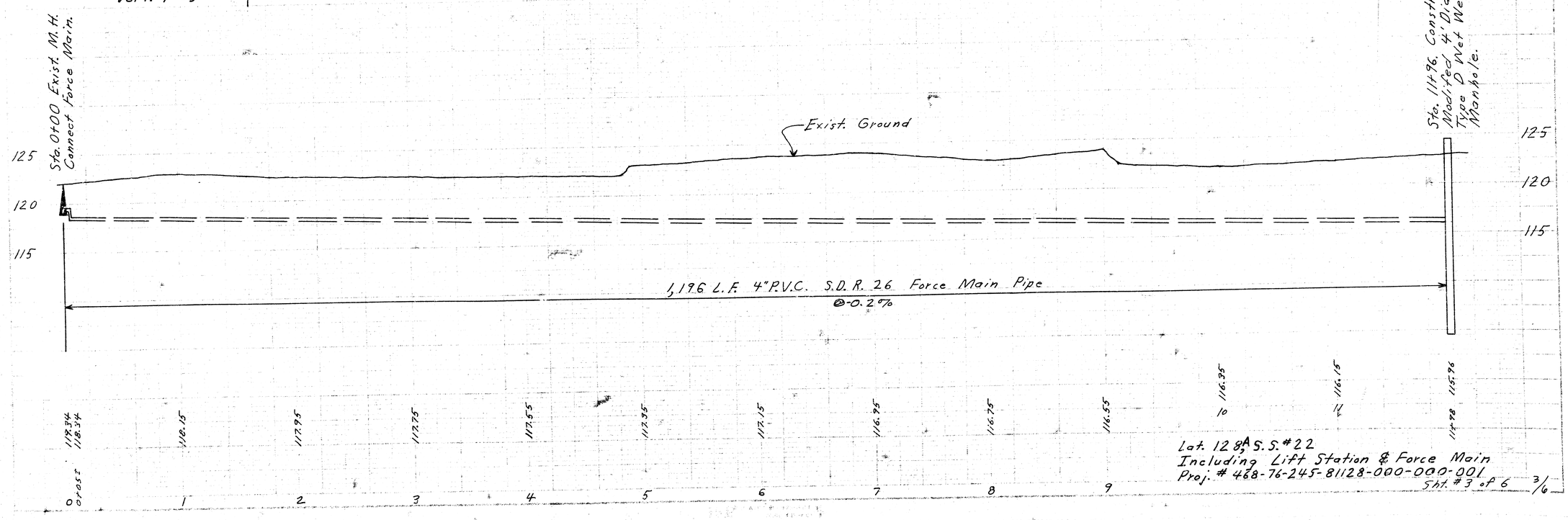
METAL WARNING SIGNS SHALL BE INSTALLED ON THE SOUTH LINE OF SAID LOT 3 OPPOSITE FROM FORCE MAIN STATIONS 0 + 18, 5 + 63, AND 11 + 41.

ALL TOP SOIL AND GRASSED AREAS DISTURBED BY CONSTRUCTION SOUTH OF THE ARKANSAS RIVER NORTH RIGHT OF WAY LINE SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE PRE-EXISTING CONDITION PRIOR TO CONSTRUCTION. SUCH DISTURBED GRASSED AREAS SHALL BE FERTILIZED AND SEEDED USING A MIXTURE OF 50% BROME GRASS AND 50% FESCUE GRASS PLANTED AT A COMBINED RATE OF 20 LBS. PER ACRE. FERTILIZER SHALL BE 12-24-12 DISTRIBUTED AT A RATE OF 150 LBS. PER ACRE. ALL COSTS FOR RESTORATION OF DISTURBED AREAS SOUTH OF THE ARKANSAS RIVER NORTH RIGHT OF WAY LINE WILL NOT BE PAID FOR DIRECTLY AND SHALL BE CONSIDERED AS INCIDENTAL TO THE OTHER PAY ITEMS OF WORK.

Plan Scale 1"=40'
Profile Scale Horiz. 1"=40'
Vert. 1"=5'

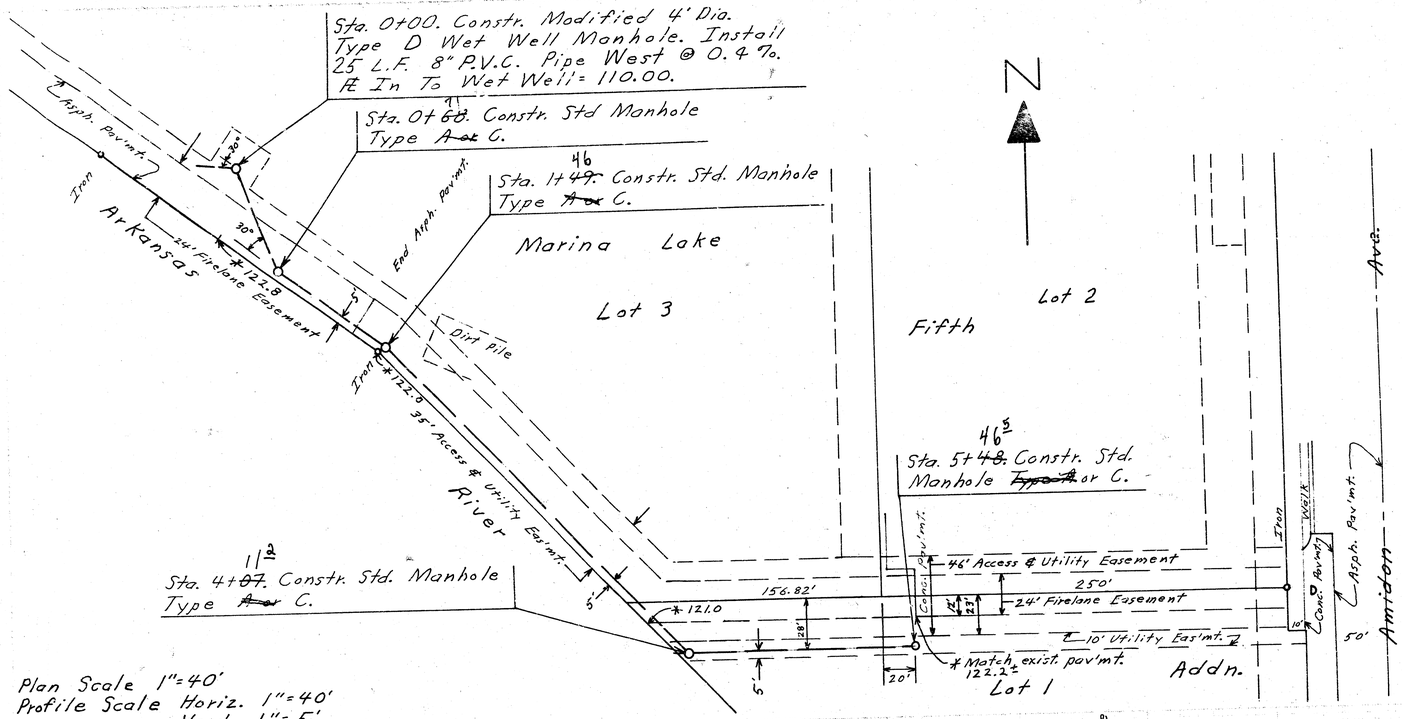
B.M. 126.26. City std. disc approx. 6' S. of N.L. of 21st St. & 158' W. of W.L. of Benjamin.

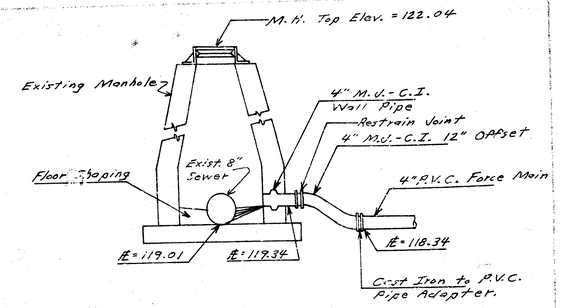
B.M. 124.99. Fire hydrant approx. 35' West & 20' North of exist. manhole at Sta. 0+00. "DRY" in DRYTOP.



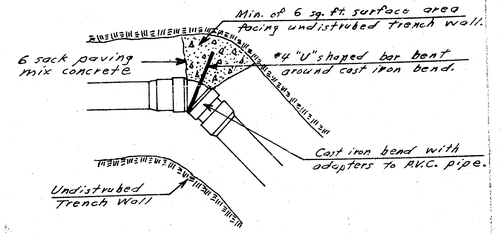
Lot 128, S.S. #22
Including Lift Station & Force Main
Proj. # 468-76-245-81128-000-000-001
Sht. # 3 of 6 3/6

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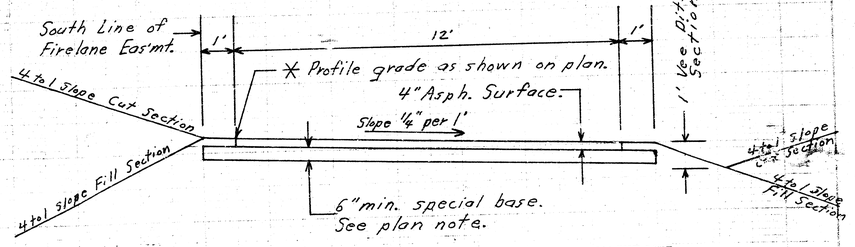


FORCE MAIN DISCHARGE DETAIL



THRUST BLOCK DETAIL

ASPHALT DRIVE DETAIL



NOTE: CONTRACTOR SHALL CONSTRUCT A NEW ASPHALT DRIVE FOR ACCESS FROM THE LIFT STATION SITE CONNECTING TO THE EXISTING CONCRETE PAVEMENT LOCATED APPROXIMATELY 16' NORTH OF MANHOLE STA. 5+48.

THE SIX INCH SPECIAL BASE FOR THE ASPHALT DRIVE SHALL BE CONSTRUCTED UTILIZING ASPHALTIC MATERIAL SALVAGED FROM THE ASPHALT FIRE LANE PAVEMENT REMOVAL OPERATION DESCRIBED IN A NOTE ON PLAN SHEET NO. 3. SUCH SALVAGED ASPHALTIC MATERIAL SHALL BE SPREAD IN A SIX INCH LAYER AS DETAILED IN THE ABOVE DRAWING USING METHODS WHICH WILL CRUSH AND/OR PULVERIZE THE MATERIAL SUCH THAT NO PARTICLES OF THE MATERIAL WILL EXCEED A DIAMETER OF 2". THE CRUSHING AND PULVERIZING OPERATION SHALL BE ACCOMPLISHED USING DISCING, RIPPING, ROLLING WITH A SHEEPSFOOT ROLLER, AND MANIPULATION WITH A MOTOR GRADER. SUFFICIENT PASSES MUST BE MADE WITH THE SHEEPSFOOT ROLLER OVER THE BASE MATERIAL TO ASSURE MAXIMUM COMPACTION. THE COMPLETED SURFACE OF THE SPECIAL BASE SHALL BE ROLLED WITH A HEAVY FLAT STEEL WHEELED ROLLER PRIOR TO CONSTRUCTING THE SURFACE COURSE. A TACK COAT OF CUT BACK OR EMULSIFIED ASPHALT SHALL BE APPLIED AT A RATE OF APPROXIMATELY 0.05 GALS./SQ. YD. BETWEEN LIFTS OF ASPHALT MATERIAL WHEN ORDERED BY THE ENGINEER. ALL COSTS FOR CONSTRUCTING THE ASPHALT DRIVE WITH SPECIAL BASE SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR THIS ITEM OF WORK.

FIELD ENGINEER MAY MAKE MINOR ADJUSTMENTS OF THE PLAN ASPHALT DRIVE PROFILE GRADES SHOULD HE DEEM NECESSARY TO CONFORM TO EXISTING SITE CONDITIONS.

M. Greene
B. Schneider

As Built
J.L.L.
11-82

Sht. # 4 of 6

Lot 128A S.S. #22
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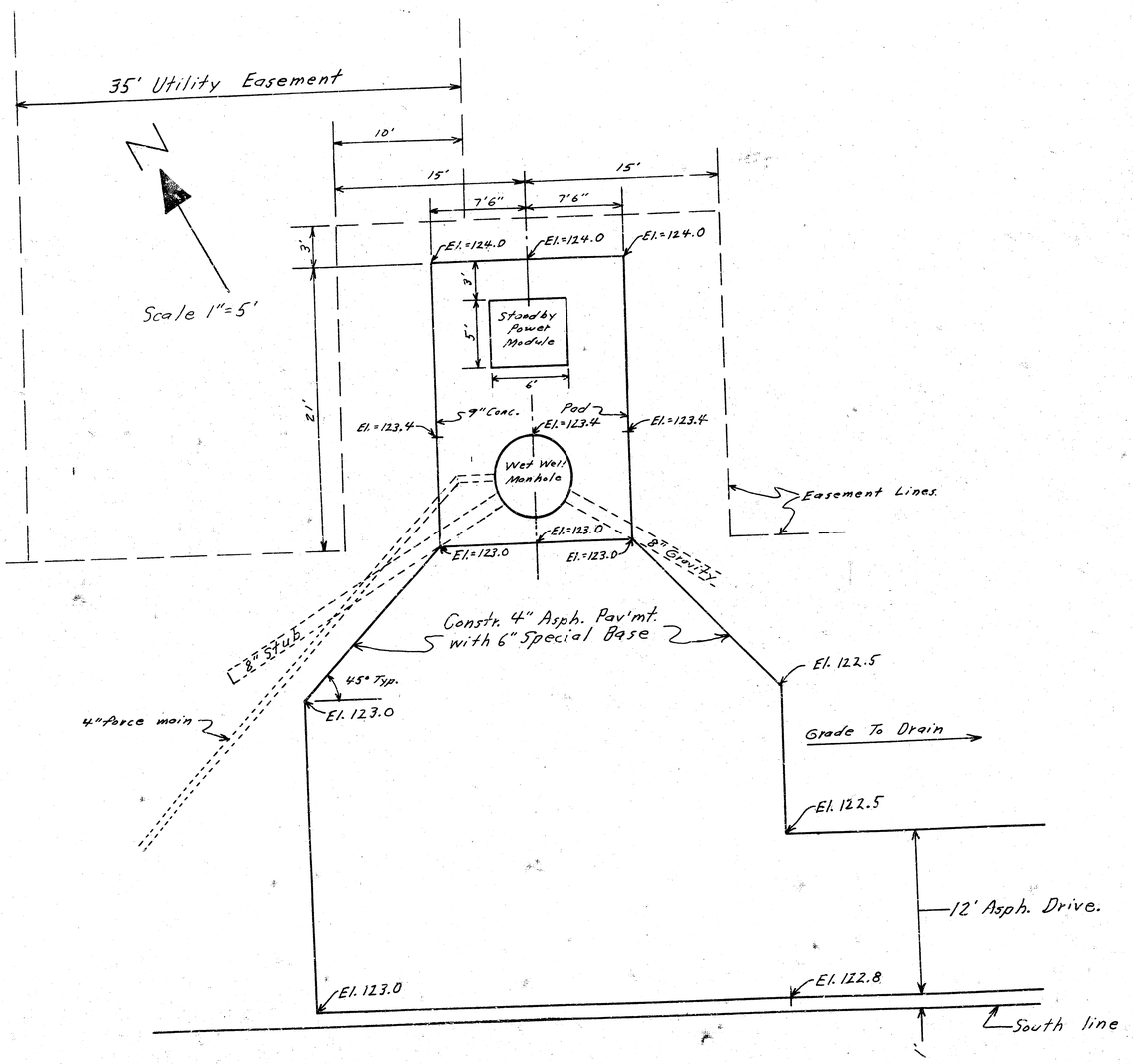
GENERAL NOTES

THE LUMP SUM PRICE BID FOR FURNISHING AND INSTALLING LIFT STATION WITH STANDBY POWER AND MISCELLANEOUS APPURTENANCES COMPLETE IN PLACE SHALL INCLUDE ALL COSTS FOR FURNISHING AND INSTALLING THE LIFT STATION AND STAND-BY POWER MODULE AS INDICATED ON THE SITE PLAN COMPLETE IN PLACE AND IN OPERATION. SUCH LUMP SUM BID SHALL INCLUDE THE COST OF CONSTRUCTING AND/OR INSTALLING COMPACTED SUBGRADE, CONCRETE PAD, ASPHALT PAVEMENT, POWER POLE, ELECTRICAL CONDUIT, ELECTRICAL WIRING, DISCONNECT SWITCH, ELECTRICAL POWER SUPPLY, NATURAL GAS FUEL SUPPLY, FINISHED GRADING AND ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.

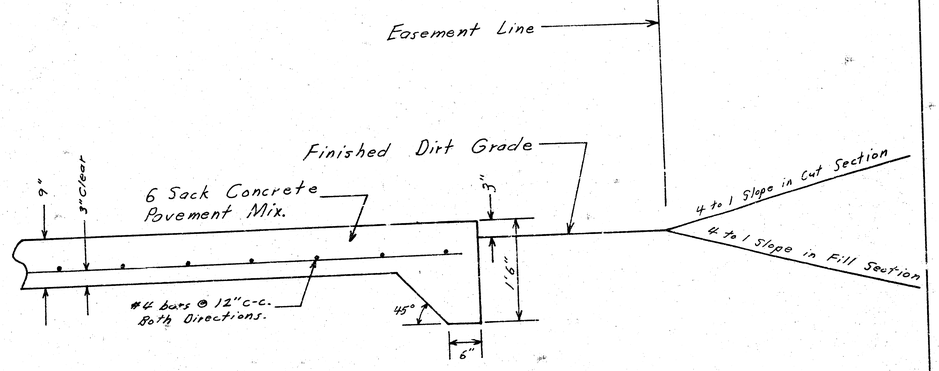
GENERAL NOTES (CONT.)

CONTRACTOR SHALL INSTALL A 10" X 12' CREOSOTED WOOD POWER POLE ON THE WEST SIDE OF THE LIFT STATION PAD IN A LOCATION APPROVED BY THE ENGINEER. POLE SHALL BE INSTALLED WITH 8' EXPOSED ABOVE GROUND. CONTRACTOR SHALL ALSO CONSTRUCT CONCRETE PAD FOR K.G.& E. TRANSFORMER ON THE WEST SIDE OF LIFT STATION PAD IN A LOCATION ALSO APPROVED BY THE ENGINEER. TRANSFORMER PAD SHALL BE COMSTRUCTED TO CONFORM WITH REQUIREMENTS OF K.G.& E.

ELECTRICAL POWER AND NATURAL GAS SUPPLY TO LIFT STATION SITE TO BE INSTALLED IN DEDICATED EASEMENT ALONG WEST SIDE OF LIFT STATION SITE. DEDICATED EASEMENT FOR ELECTRICAL POWER AND NATUMAL GAS SUPPLY IS SHOWN ON PLAN SHEET NO. 2.



LIFT STATION SITE PLAN



CONCRETE PAD DETAILS

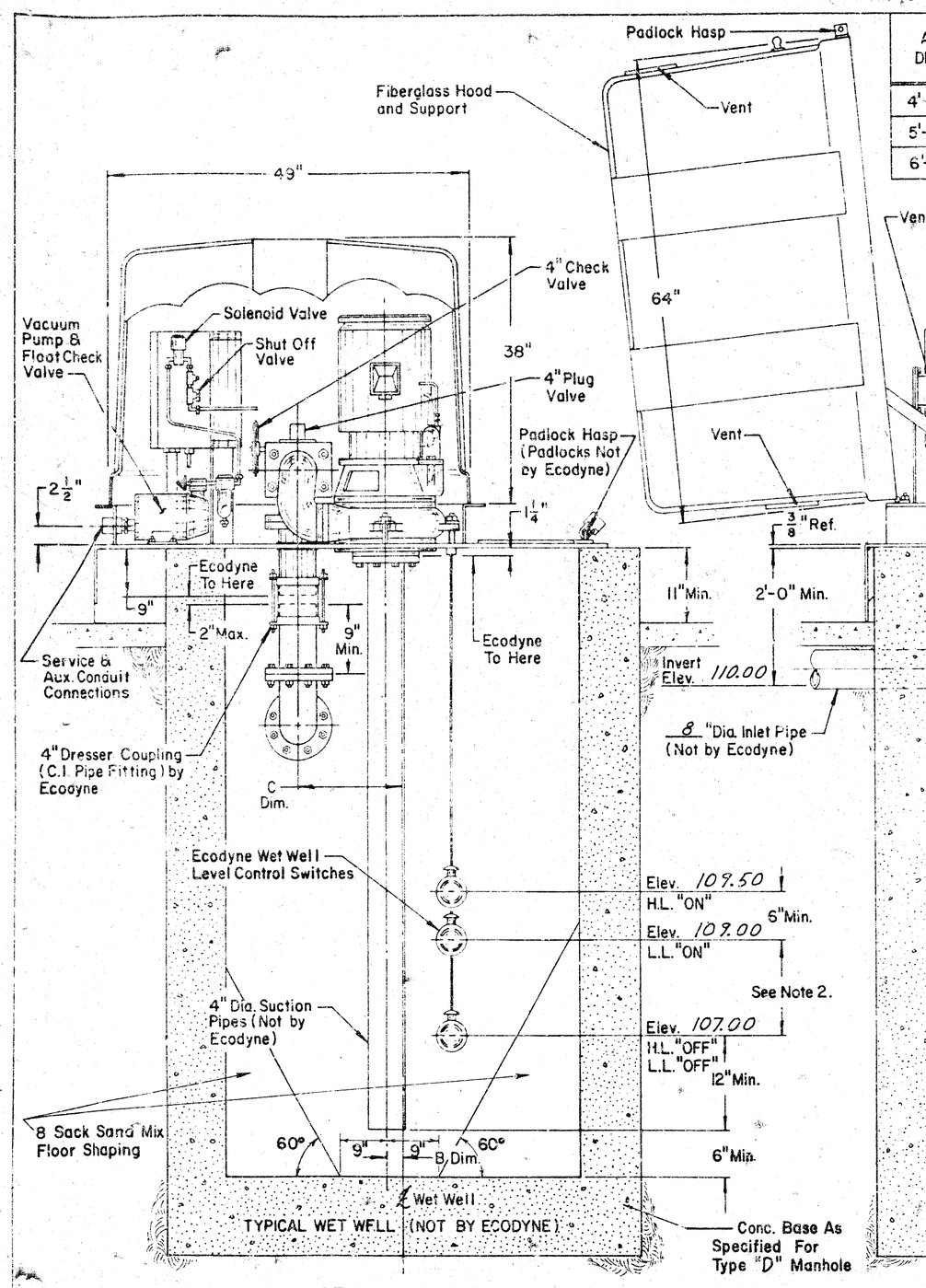
A 1 1/2" CONDUIT SHALL BE INSTALLED UNDERGROUND FROM THE LIFT STATION MODULE TO THE STANDBY POWER MODULE AND FROM THE STANDBY POWER MODULE TO THE DISCONNECT SWITCH LOCATED ON POWER POLE. A 3/4" CONDUIT SHALL BE INSTALLED UNDERGROUND BETWEEN THE LIFT STATION MODULE AND THE POWER POLE TO FACILITATE CONNECTION OF THE ALARM SYSTEM BY OTHERS. THE ELECTRICAL POWER SUPPLY TO THE METER BASE MUST ALSO BE UNDERGROUND. ALL ELECTRICAL WIRING SHALL CONFORM TO THE CITY OF WICHITA CODE.

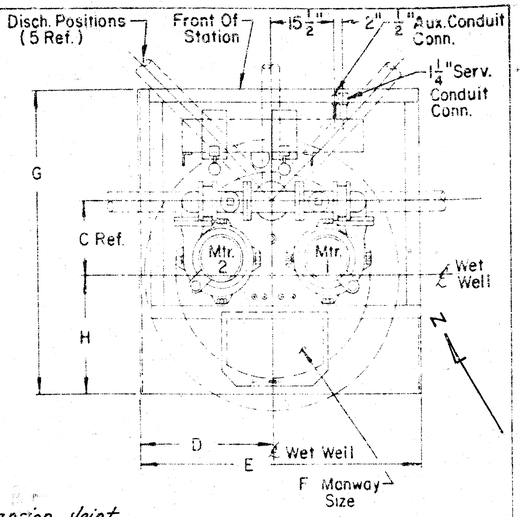
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Sht. # 5 of 6

5/6

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A DIA.	B DIM.	C DIM.	D DIM.	E DIM.	F MANWAY	G DIM.	H DIM.
4'-0"	2"	13 13/16"	33"	69 3/4"	14x24	69 1/2"	28"
5'-0"	8"	19 13/16"	39"	78"	24 1/2"x28"	81 1/2"	34"
6'-0"	2"	13 13/16"	45"	90"			40"





PLAN VIEW

Shown Less Hood & Vent. Blower

NOTE:

1. Maximum Capacity - 300 G.P.M.
2. Volume In Gallons Between L.L. "ON" and L.L. "OFF" Should Equal Pumping Rate in G.P.M.
3. If The End Of The Discharge Pipe Is Below The Elevation Of Discharge Pipe At The Point Of Leaving The Wet Well - Consult Factory.
4. If The Discharge Line Is Less Than 200 Feet Long A Check Valve May Be Required - Consult Factory.
5. If The Engineering Plans And Specifications Require Greater Than 8" Thick Wet Well Walls - Consult Factory.

87D124

Proj. # 468-76-245-81128-000-000-001

WFN	8-77	ECODYNE Smith & Loveless Division	
EAM	8-77	WET WELL MOUNTED SEWAGE PUMP LIFT STATION - MODEL 'S' 4" PIPING - 4', 5' & 6' DIA. WELL	
CV	11-77	Eq.	
none		87D124	REV. 6/6
N76-57	P		

Lat. 128, A.S.S. #22 Including Off Station Force Main

Sht. # 6 of 6

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