

PARTICIPANT LIST

HOMEOWNER	HOUSE SIZE	LOT BLOCK	NEW WELL	COMMUNITY SEWER	SEPTIC TANK DRAINFIELD
MARY KAWAGLIA	3 BR	LOT 6 BK 1	X	X	
SOPHIE KING	4 BR	LOT 5 BK 1	X	X	
MATRONIA NICKOLAI	2 BR	LOT 4 BK 1	X	X	
MARTHA LARSON	2 BR	LOT 2 BK 1	X	X	
RAMONA LEASE	4 BR	LOT 1 BK 1	X	X	
LINDA ISHNOOK	3 BR	LOT 6 BK 2	X	X	
VERA ATKINSON	3 BR	LOT 3 BK 2	X	X	
ELENA HURLEY	4 BR	LOT 2 BK 2	X	X	
MICKIA WALCOTT SR.	4 BR	LOT 10A BK 3		X	
THOMAS NELSON	4 BR	LOT 10 BK 8			X
FRED HURLEY	4 BR	LOT 11 BK 11			X
JEFF ROMIE	4 BR	LOT 4A BK 10			X
JULIA BRANDON	4 BR	LOT 2D BK 12	X		X
NICK NICOLI	3 BR	LOT 2C BK 12	X		X
ALEX NELSON	3 BR	LOT 2A BK 12	X		X
MASSA ACEY	2 BR	LOT 2B BK 12	X		X
PETER WALCOTT	4 BR	LOT 3B BK 12			X
ALIC KARASTI	4 BR	LOT 3C BK 12	X		X
LORRAINE AKELKOK	4 BR	LOT 3D BK 12	X		X

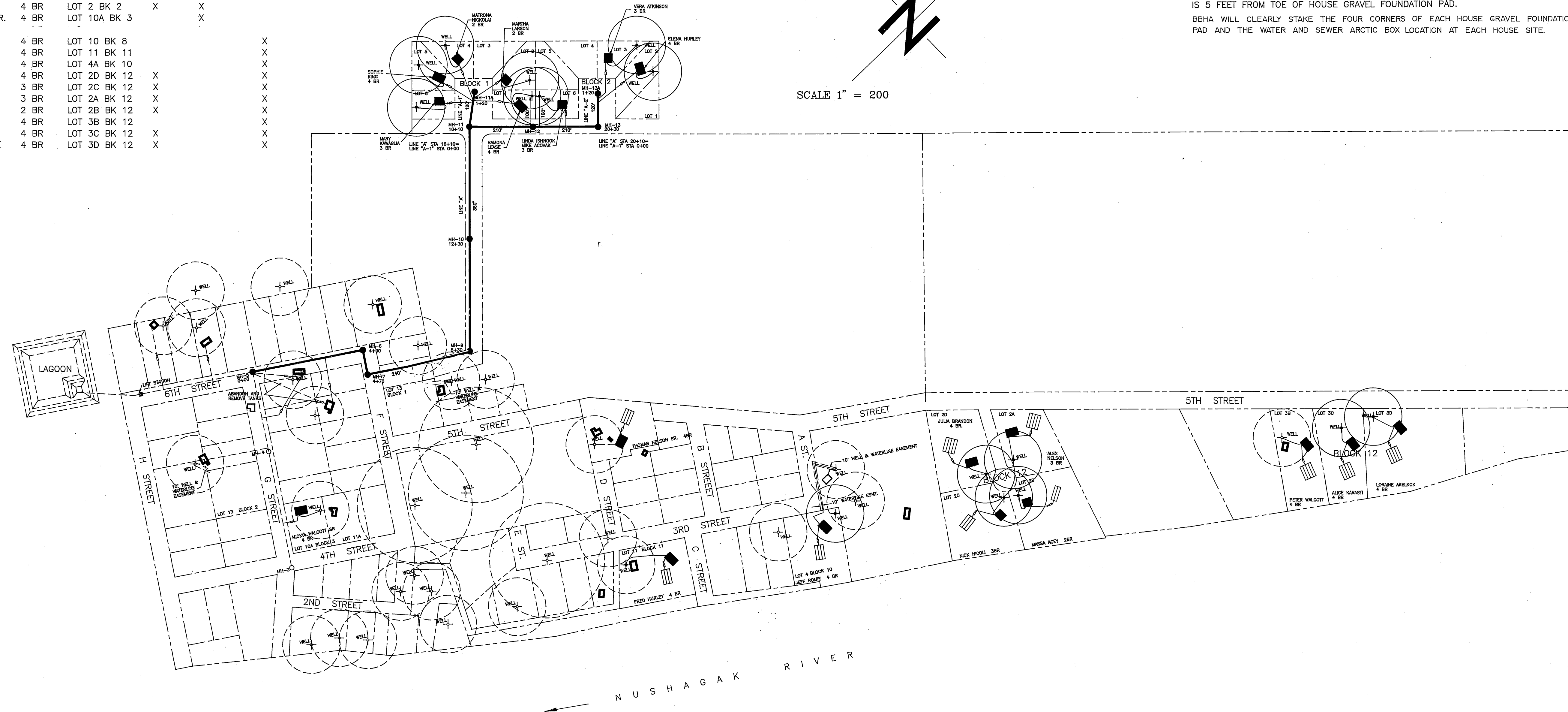
SCOPE OF WORK

1. CONSTRUCT 2200 FEET OF 8" COMMUNITY SEWER MAIN.
2. CONSTRUCT 14 INDIVIDUAL WELLS & WATER SERVICE CONNECTIONS.
3. CONSTRUCT 10 INDIVIDUAL SEPTIC TANK DRAINFIELD SYSTEMS.
4. CONSTRUCT 10 INDIVIDUAL SEWER SERVICE CONNECTIONS.
5. REMOVE AND REPLACE 2 EXISTING SEPTIC TANKS AND REROUTE 2 INDIVIDUAL SEWER SERVICE LINES.
6. CONSTRUCT LIFT STATION BUILDING.

NOTE :

IHS PROJECT CONSTRUCTION LIMITS FOR WATER AND SEWER SERVICE LINES IS 5 FEET FROM TOE OF HOUSE GRAVEL FOUNDATION PAD.

BBHA WILL CLEARLY STAKE THE FOUR CORNERS OF EACH HOUSE GRAVEL FOUNDATION PAD AND THE WATER AND SEWER ARCTIC BOX LOCATION AT EACH HOUSE SITE.



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U.S. Department of Health & Human Services
Public Health Service
Indian Health Service

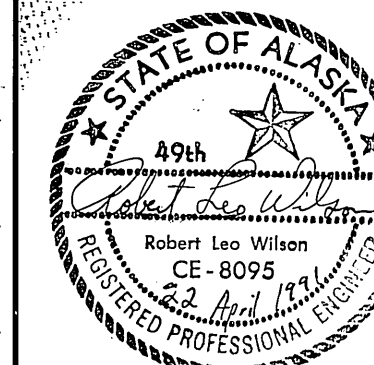
EKWOK, ALASKA
PLAN VIEW
PUBLIC LAW 86-121 PROJECT
PROJECT NO. AN-89-981

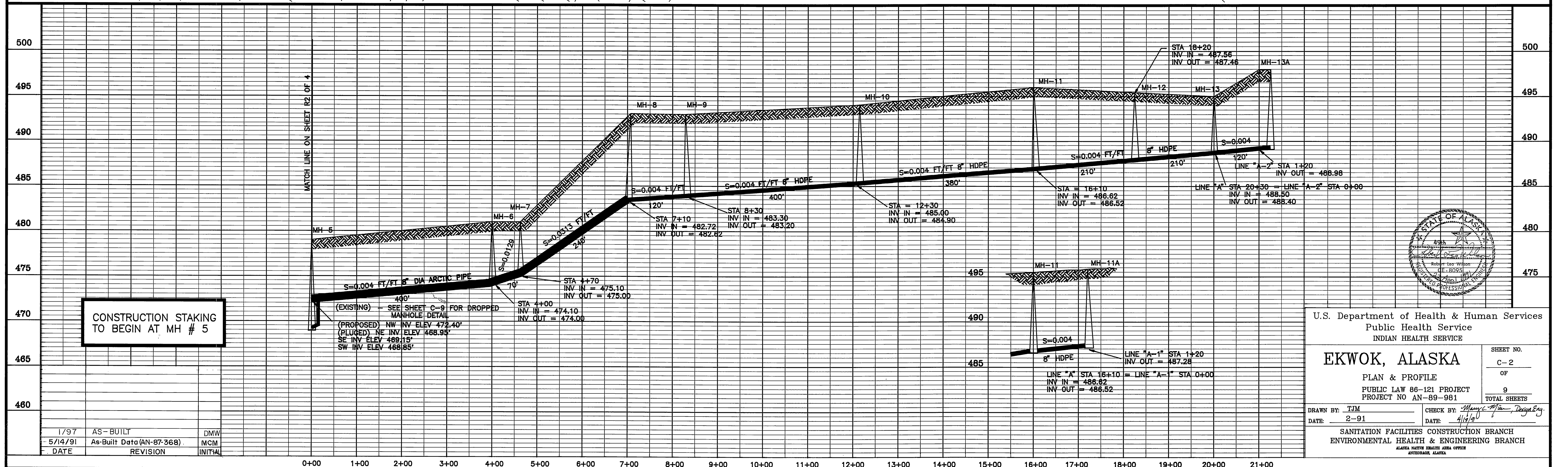
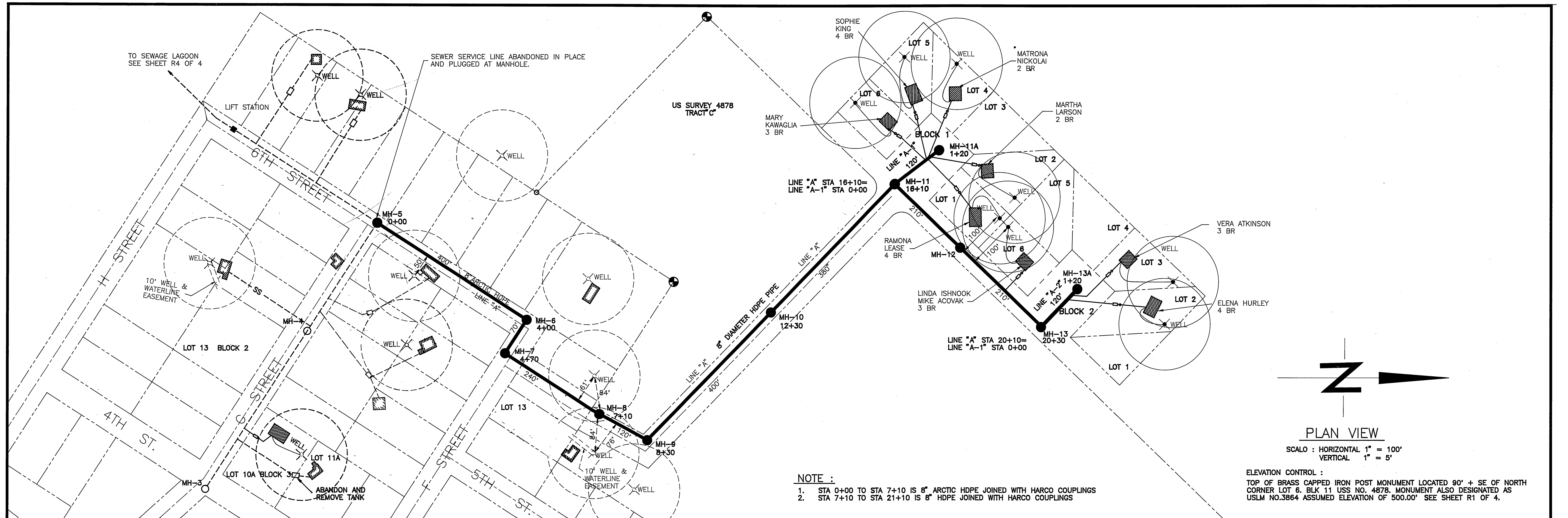
SHEET NO.
C-1
OF
9
TOTAL SHEETS

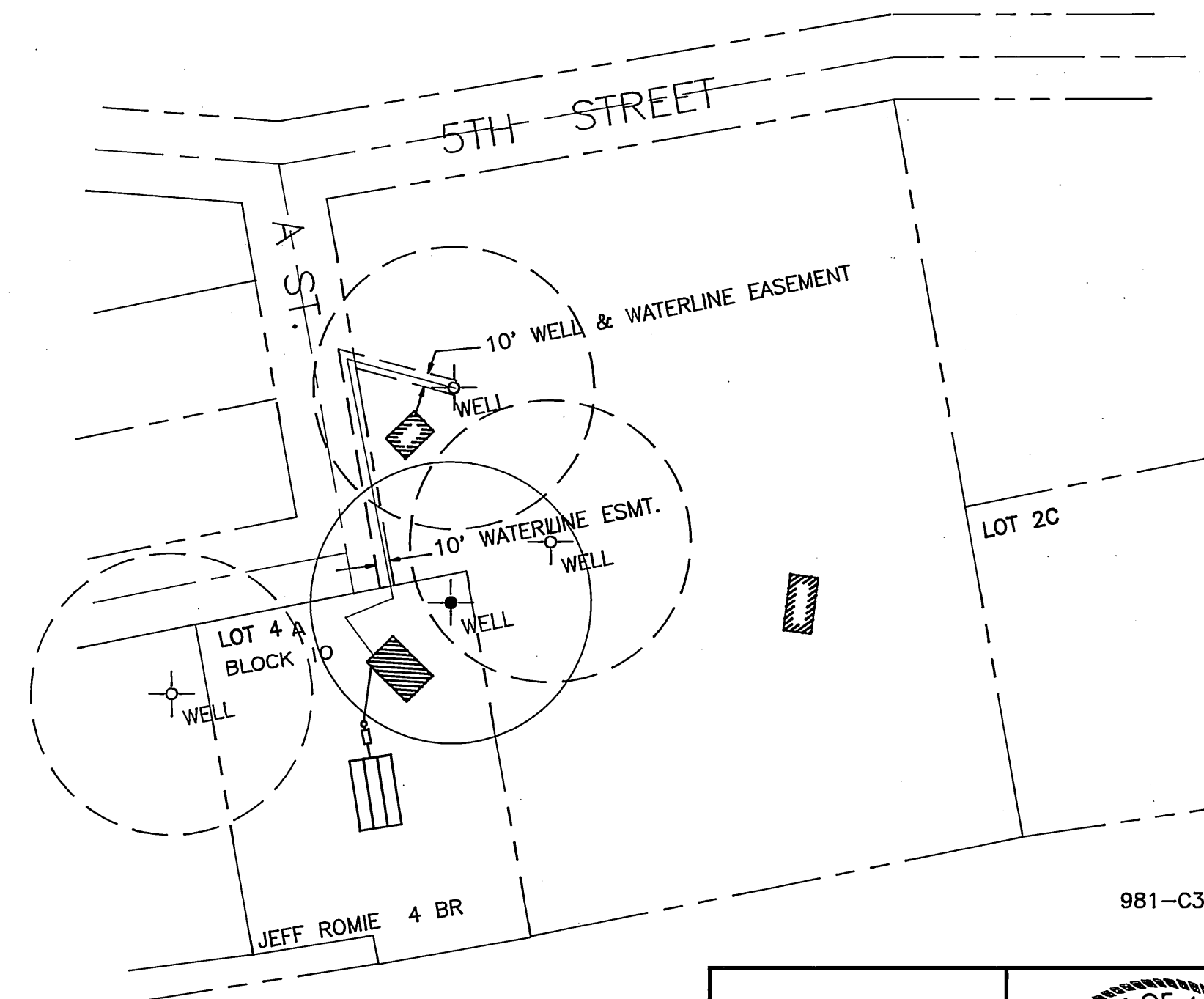
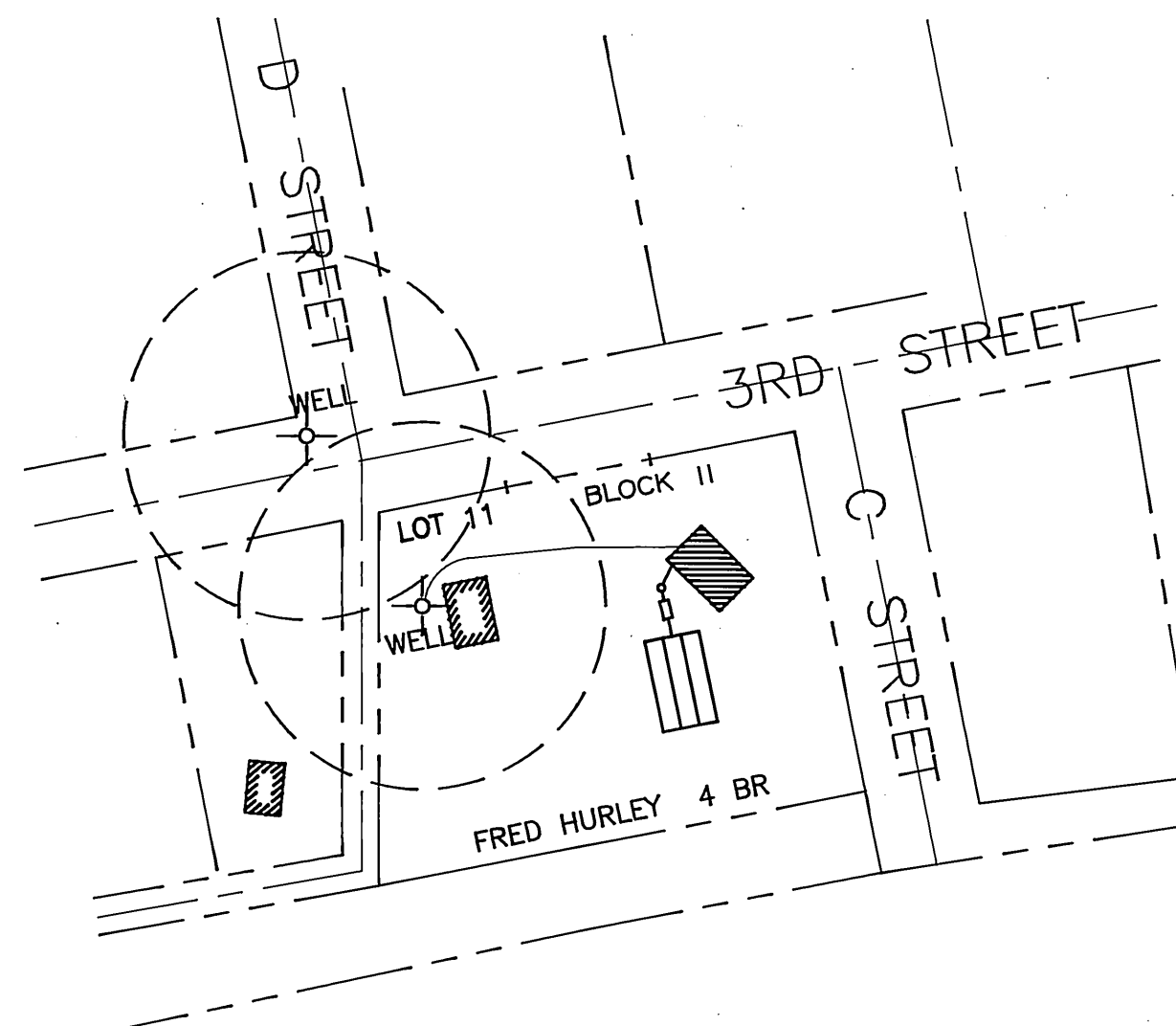
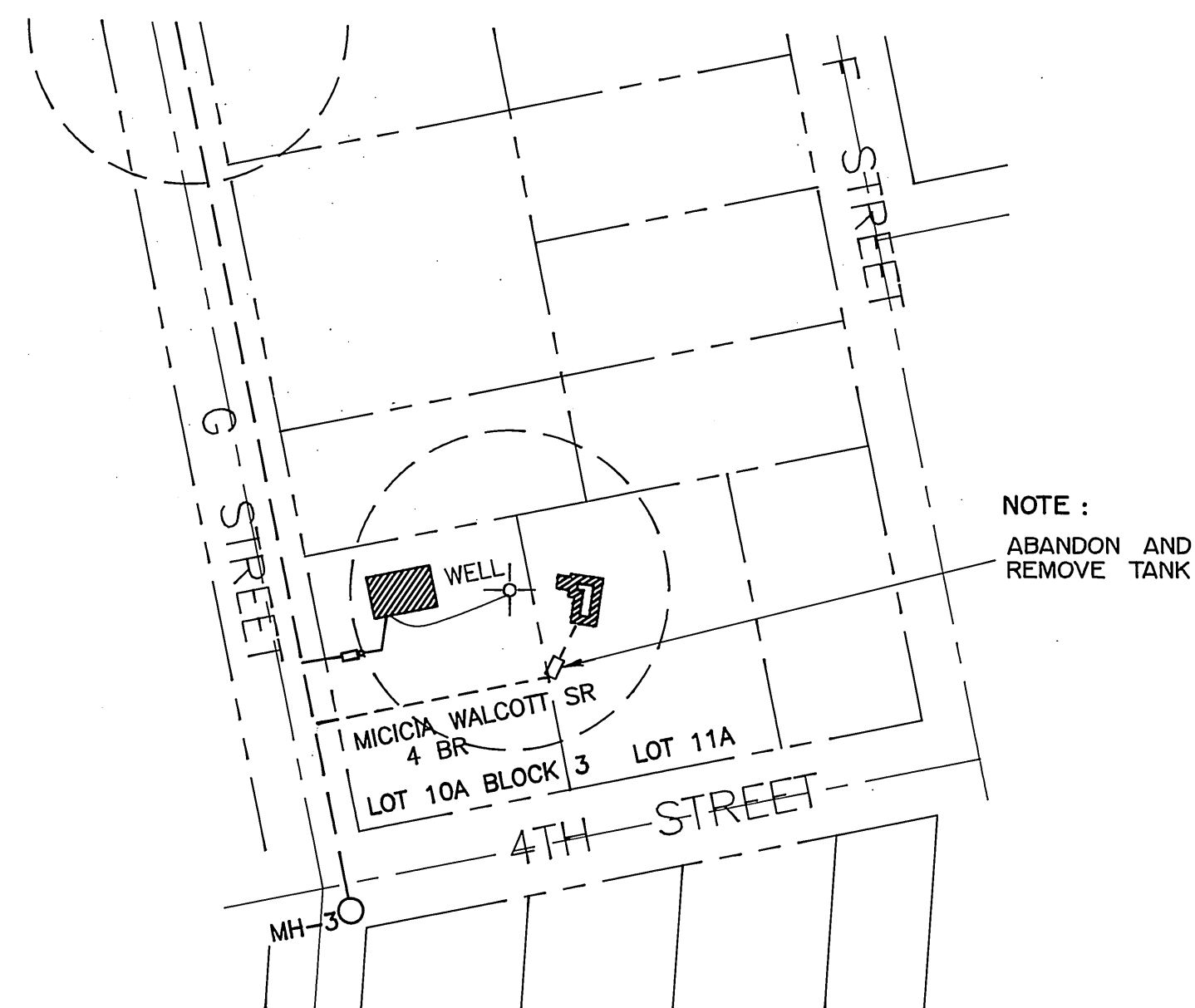
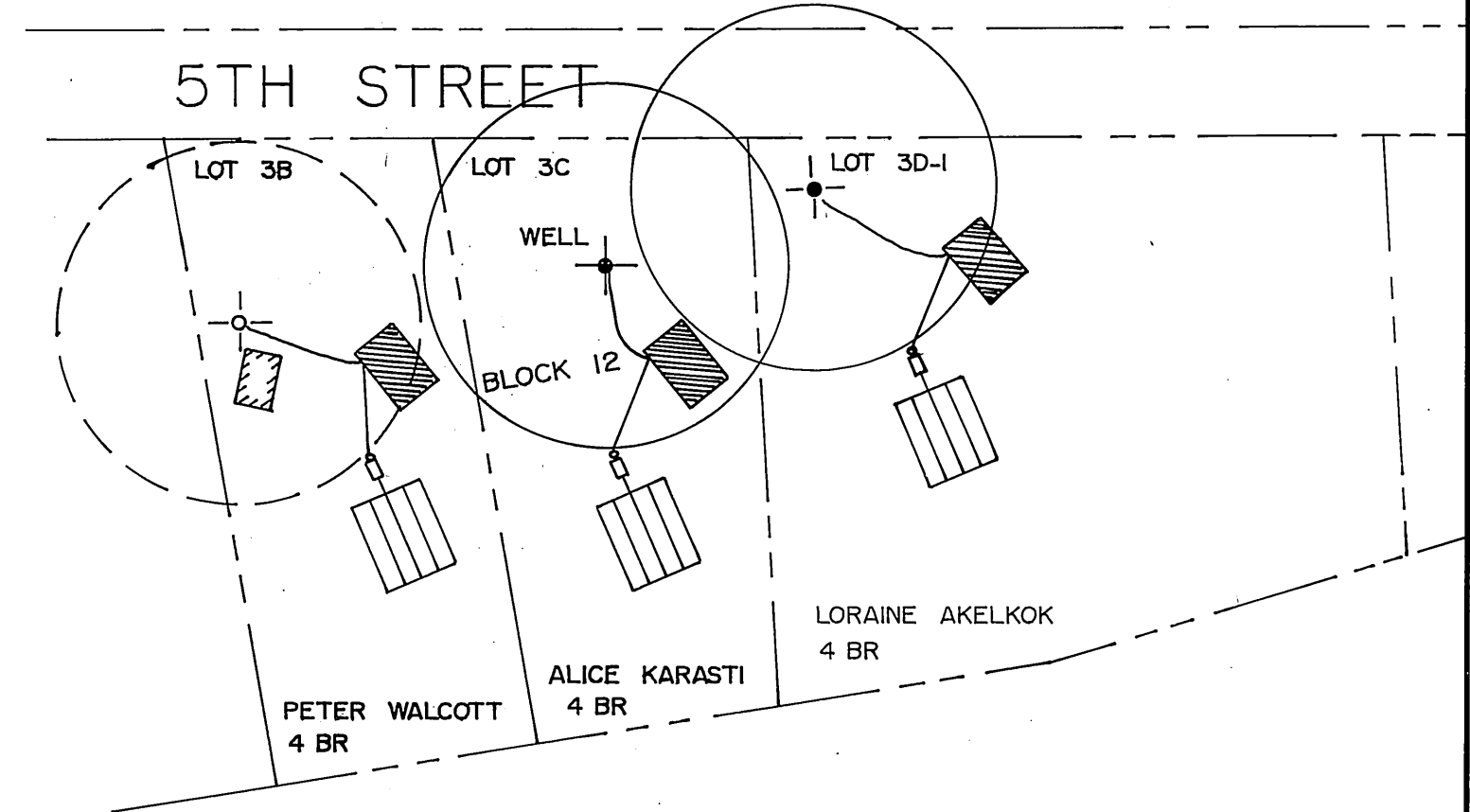
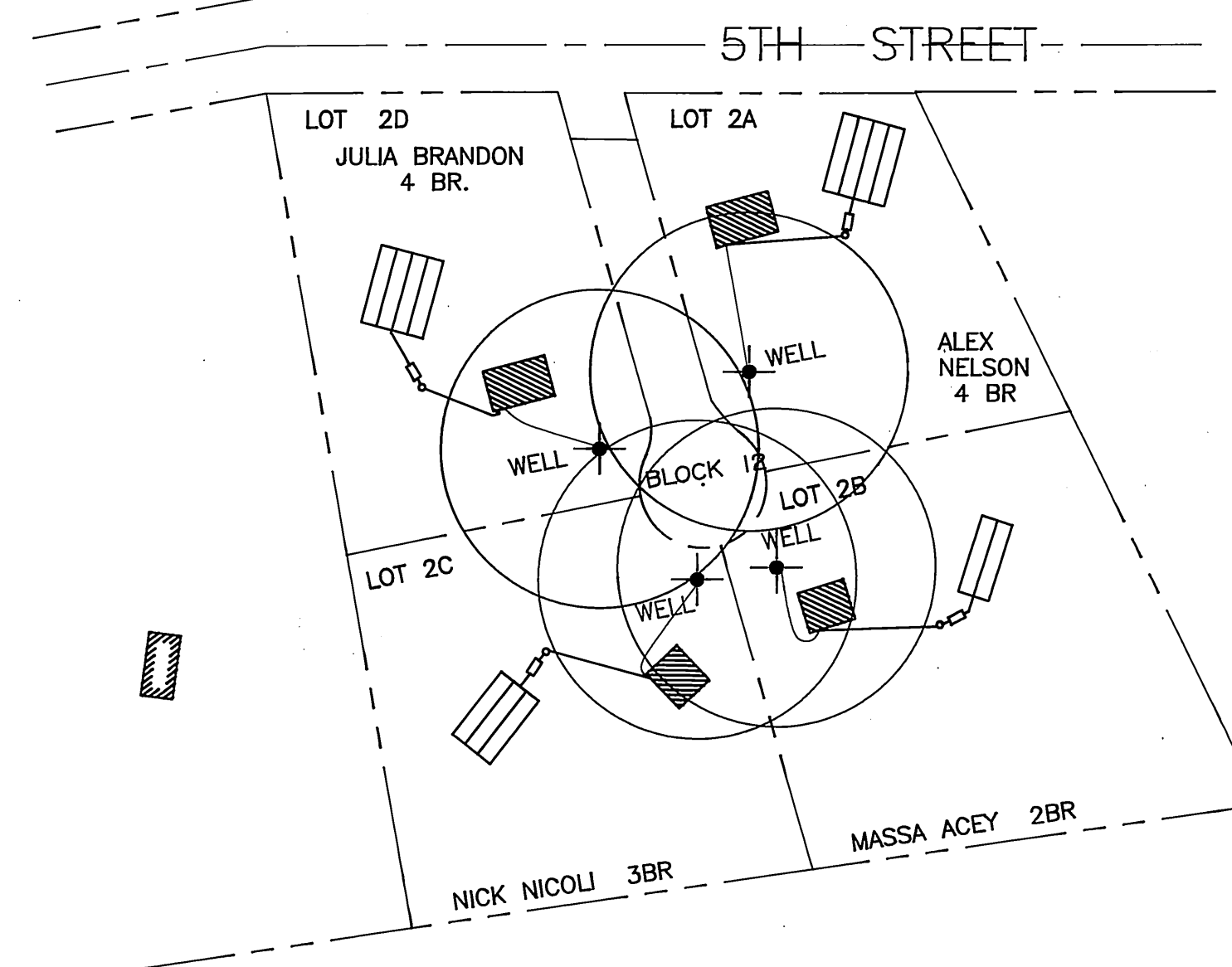
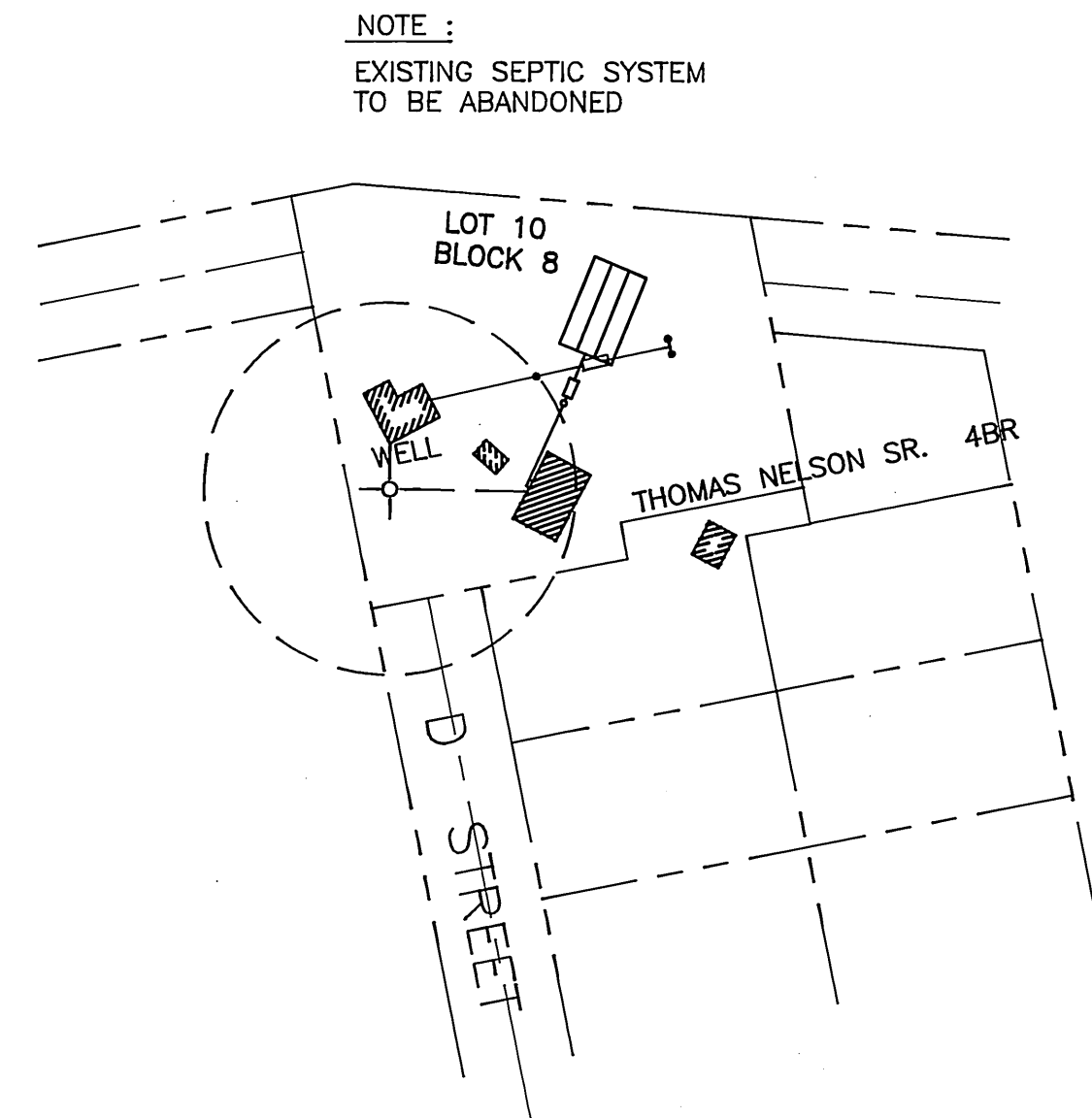
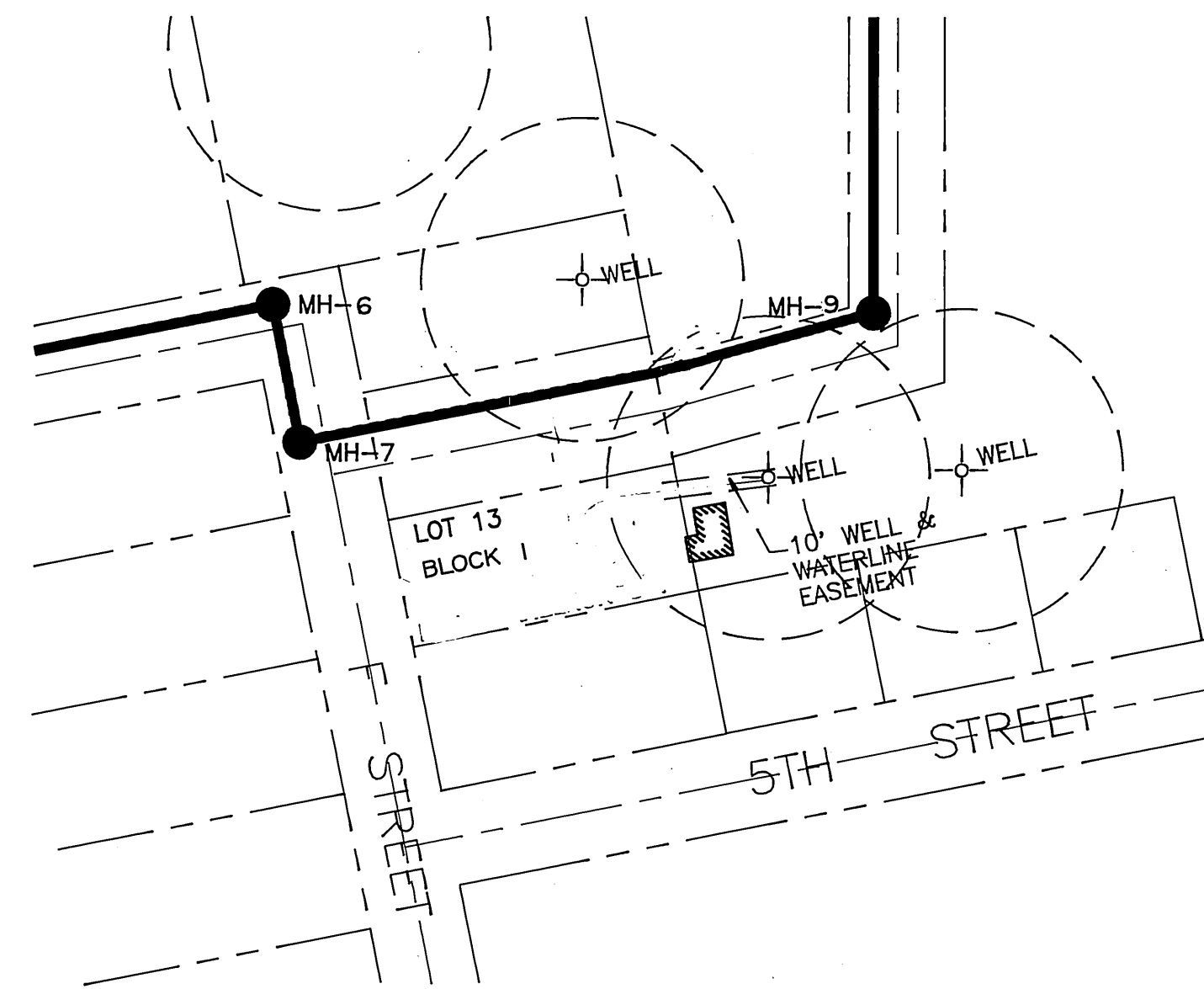
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DATE: 4-91	DATE:

SANITATION FACILITIES CONSTRUCTION BRANCH
ENVIRONMENTAL HEALTH AND ENGINEERING BRANCH
ALASKA AREA NATIVE HEALTH SERVICE
ANCHORAGE, ALASKA

Design Engineer
Maintenance Review
Material Take-off



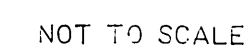




NOTE :

FUNDING FOR A NEW WELL IS PENDING. IF IT IS NOT APPROVED, THE HOUSE WILL BE CONNECTED AS SHOWN TO THE EXISTING WELL.

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U.S. Department of Health & Human Services Public Health Service Indian Health Service		
EKWOK, ALASKA INDIVIDUAL LOT PLANS PUBLIC LAW 86-121 PROJECT PROJECT NO. AN-89-981		SHEET NO. <u> C-3 </u> OF <u> 9 </u> TOTAL SHEETS
DRAWN BY: <u> TJM </u>		CHECKED BY: <u> </u>
DATE: <u> 3-91 </u>		DATE: <u> </u>
SANITATION FACILITIES CONSTRUCTION BRANCH ENVIRONMENTAL HEALTH AND ENGINEERING BRANCH ALASKA AREA NATIVE HEALTH SERVICE ANCHORAGE, ALASKA		



BBHA WILL CLEARLY STAKE THE FOUR CORNERS OF EACH HOUSE GRAVEL FOUNDATION PAD AND THE WATER AND SEWER ARCTIC BOX LOCATIONS AT EACH HOUSE SITE.

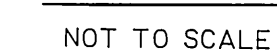
STONY RIVER C-3

TABLE 3

STRUCTURE	SIZE OF ABSORPTION FIELD REQUIRED (FT ²)	TOTAL LENGHT OF TRENCH REQUIRED (FT)	APPROXIMATE NUMBER OF INFILTRATOR SECTIONS (EA)
2 BEDROOM	300 ft sq	150 ft	24
3 BEDROOM	370 ft sq	185 ft	30
4 BEDROOM	500 ft sq	250 ft	40

NOTE: INCREASE THE TOTAL LINEAR FEET OF INFILTRATORS BY 50% IF A BED SYSTEM DESIGN IS UTILIZED.

TABLE 2

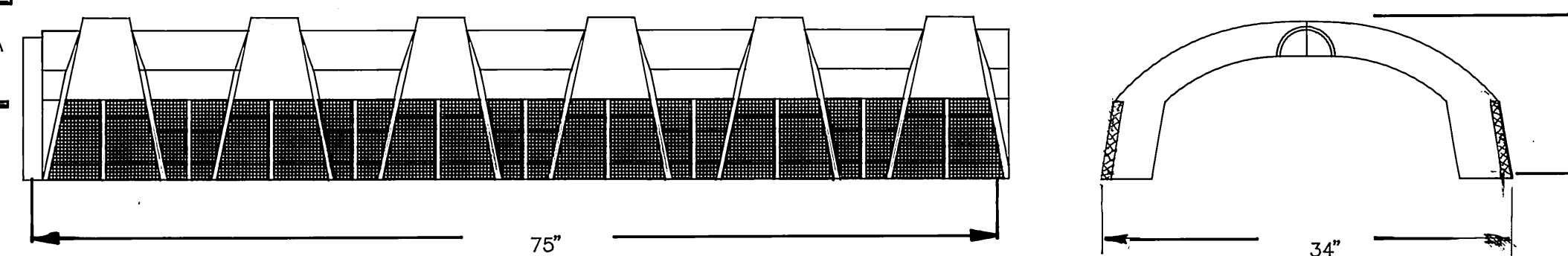
MINIMUM SEPARATIONS TO BE OBSERVED IN INSTALLATION OF SEPTIC TANKS AND ABSORPTION FIELD IN ACCORDANCE WITH 1980 ADCE WASTE WATER REGULATIONS:		
<u>FROM</u>	<u>TO</u>	<u>MINIMUM SEPARATION</u>
SEPTIC TANK	DWELLING	10 FEET
SEPTIC TANK	ABSORPTION FIELD	10 FEET
ABSORPTION FIELD	PROPERTY LINE	10 FEET
ABSORPTION FIELD	WATER LINE	10 FEET
SEPTIC TANK	WATER LINE	10 FEET
ABSORPTION FIELD	WELL (PRIVATE)	100 FEET
SEPTIC TANK	WELL (PRIVATE)	100 FEET
PRIVATE SEWER LINE	WELL (PRIVATE)	25 FEET
ABSORPTION FIELD	LAKE, RIVER	100 FEET
ABSORPTION FIELD	CUT OR FILL BANK	50 FEET
PRIVATE SEWER CLEANOUT	WELL (PRIVATE)	25 FEET

TABLE 3

GEOGRAPHICAL LOCATION	MINIMUM DEPTH OF GROUND COVER (IN FEET)	MINIMUM DEPTH TO SEASONAL HIGH WATER TABLE (IN FEET)	MINIMUM DEPTH TO IMPERMEABLE STRATA (IN FEET)
SOUTHEAST ALASKA (EAST OF 141 DEGREE W, LONGITUDE	3	8	10
SOUTHWEST ALASKA (KODIAK ISLAND BOROUGH AND ALL AREAS SOUTHWEST OF CHIGNIK INCLUDING CHIGNIK)	2	7	9
VALDEZ AND THE AREA ENCLOSED BY THE VALDEZ BASIN	3	8	10
ALL REMAINING AREAS OF THE STATE	4	9	11

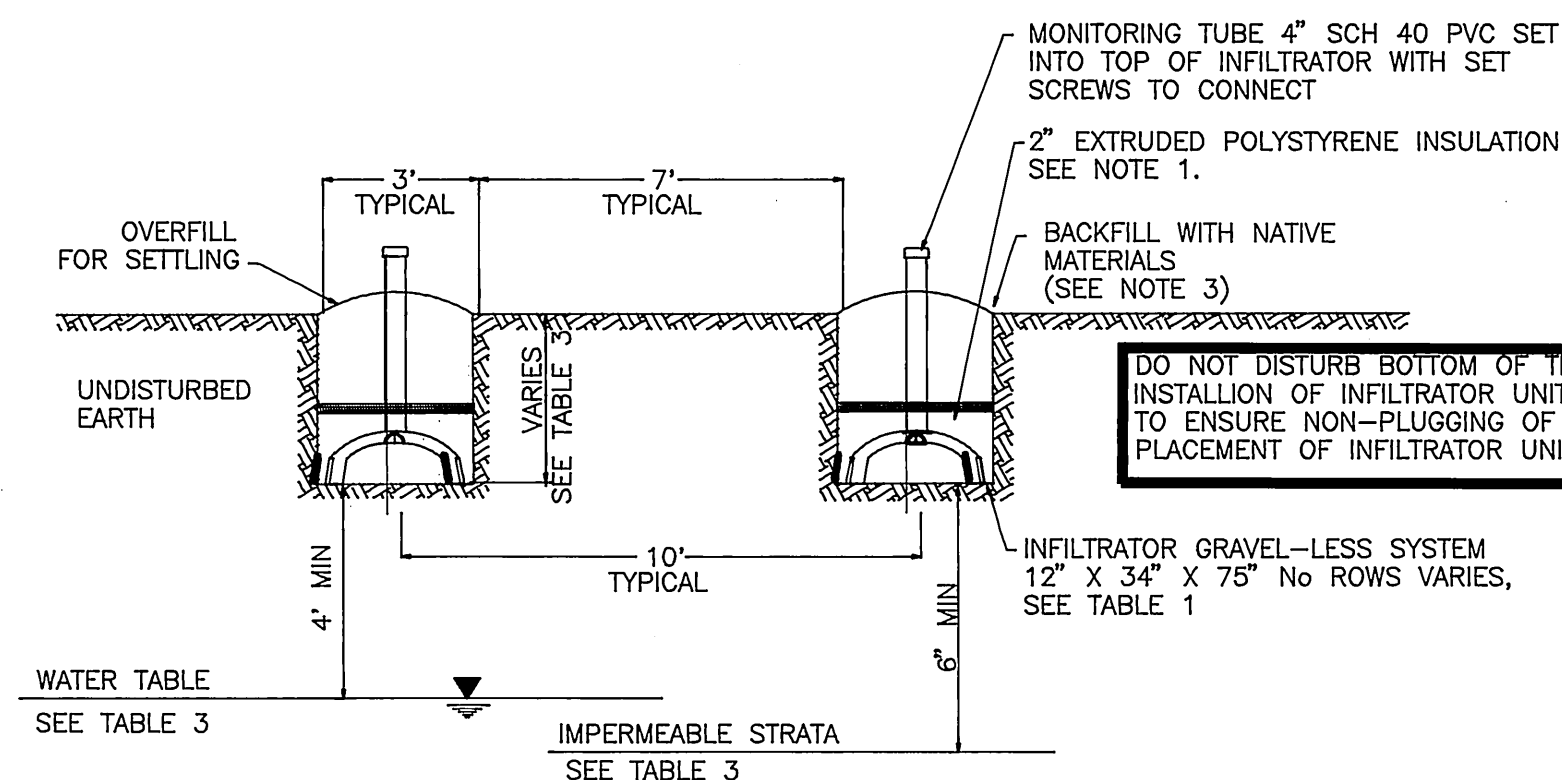
NOTES:

1. MINIMUM DEPTH OF GROUND COVER OVER INFILTRATOR SHALL BE IN ACCORDANCE WITH TABLE 3. SUBSTITUTION OF 2 INCHES OF EXTRUDED POLYSTYRENE INSULATION FOR EACH FOOT OF EARTH COVER LESS THE SPECIFIED COVER DEPTH IS ALLOWED. HOWEVER AT LEAST 2 FEET MINIMUM EARTH COVER IS REQUIRED.
2. BOTTOM OF INFILTRATOR SYSTEM SHALL BE PLACED 4 FEET ABOVE HIGHEST RECORDED WATER TABLE. HIGH WATER TABLE SHALL BE VERIFIED BY THE FIELD ENGINEER AT TIME OF EXCAVATION.
3. BACKFILL MATERIAL AROUND INFILTRATOR UNITS MAY BE OBTAINED FROM THE EXCAVATION OF THE INFILTRATOR FIELD.
4. INSTALL INFILTRATOR UNITS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THESE PLANS.
5. ABSORPTION FIELD SYSTEM SHALL BE STANDARD CAPACITY INFILTRATOR AS MANUFACTURED BY INFILTRATOR SYSTEM INC., 123 ELM STREET, SUITE 12, OLD SAYBROOK CT. 06475, OR APPROVED EQUAL.
6. DEPTH OF EXCAVATION SHALL BE DETERMINED BY ENGINEER IN THE FIELD PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7. THE ABSORPTION FIELD MAY BE DOWN-SIZED OR ENLARGED TO MATCH THE SOIL CONDITIONS AND PERCOLATION RATES AT A SPECIFIC LOCATION. THE PERCOLATION FIELD WILL BE DETERMINED BY THE PROJECT ENGINEER ACCORDING TO THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION REGULATIONS.
8. A STANDARD INFILTRATOR SPLASH PAD OR APPROVED EQUAL SHALL BE INSTALLED AT THE INLET OF EACH INFILTRATOR ROW.
9. MONITORING TUBES ARE REQUIRED AT THE END OF EACH LATERAL ABSORPTION FIELD LINE.



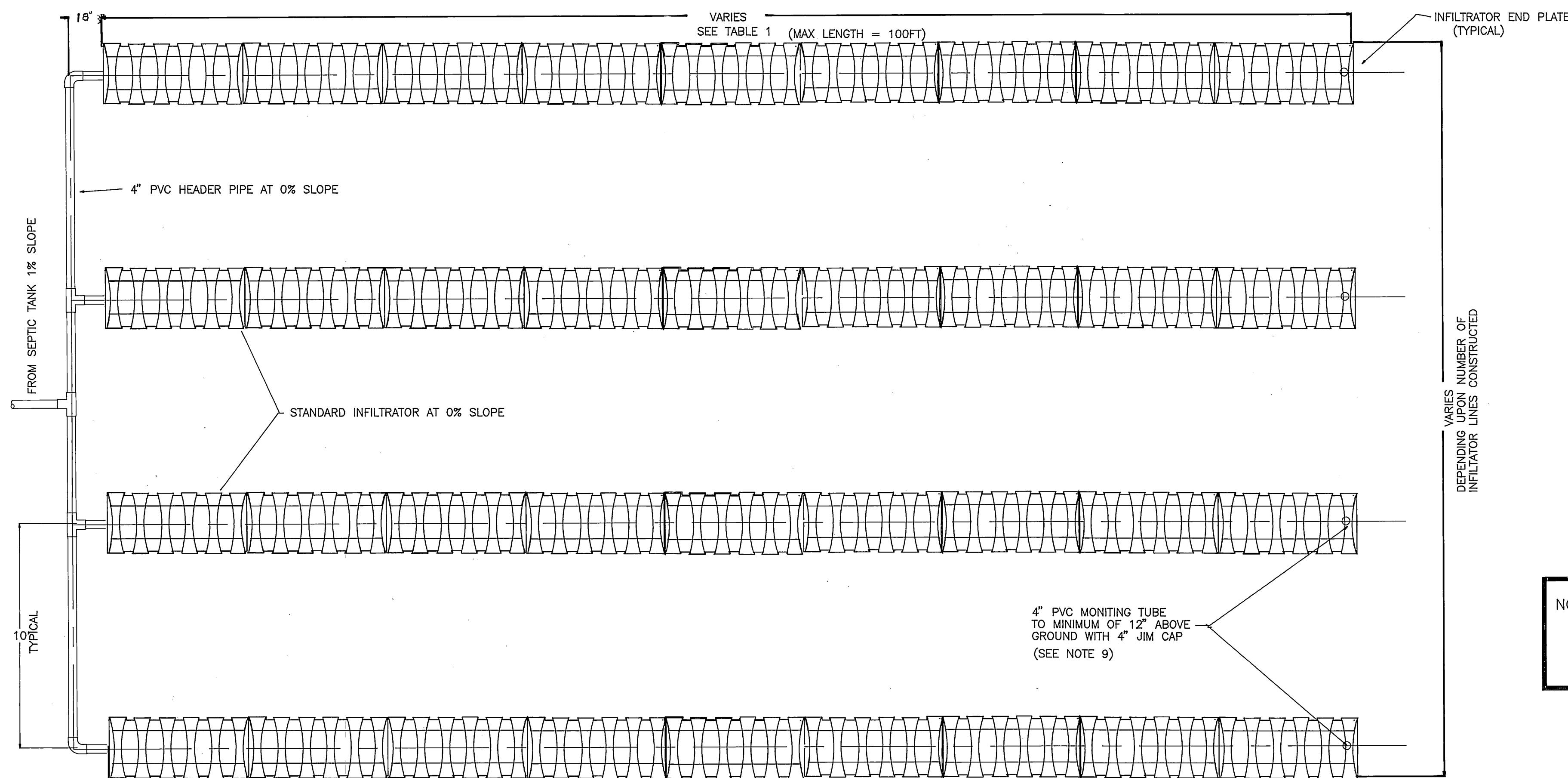
STANDARD INFILTRATION UNIT

NOT TO SCALE



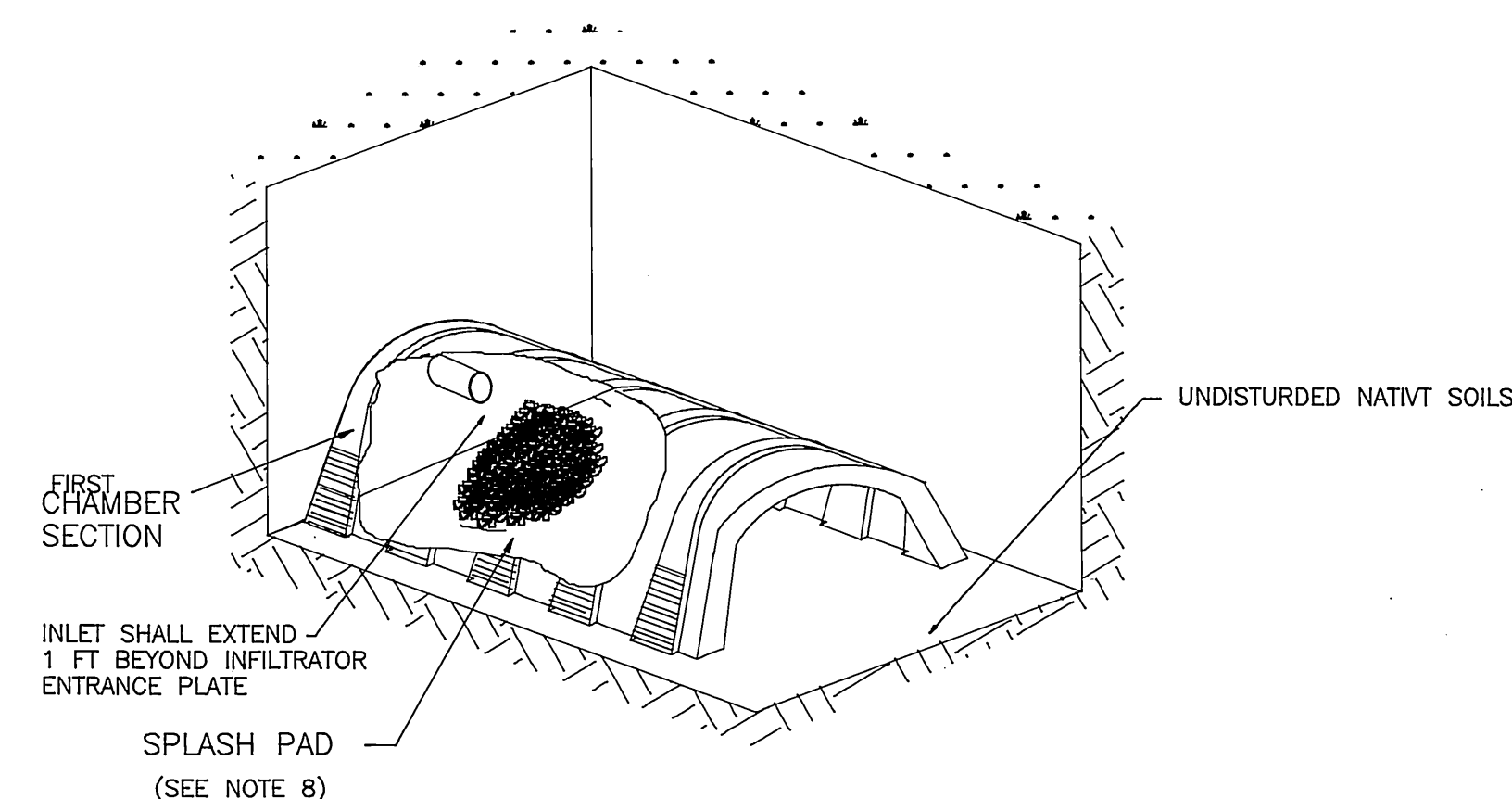
TYPICAL ABSORPTION FIELD SECTION

NOT TO SCALE



TYPICAL ABSORPTION FIELD PLAN

NOT TO SCALE



ISOMETRIC VIEW
CHAMBER ABSORPTION FIELD

NOT TO SCALE

NOTE: THIS DRAWING WAS DEVELOPED AS A STANDARD DETAIL FOR AANH'S SANITATION FACILITIES CONSTRUCTION PROGRAM. PROJECT SPECIFIC MODIFICATIONS SHALL BE HIGHLIGHTED AND ARE THE RESPONSIBILITY OF THE PROJECT DESIGN ENGINEER.

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DATE	REVISIONS	INITIAL

**U.S. Department of Health & Human Services
Public Health Service
Indian Health Service**

EKWOK, ALASKA

ABSORPTION FIELD DETAILS
PUBLIC LAW 86-121 PROJECT
PROJECT NO. AN-89-981

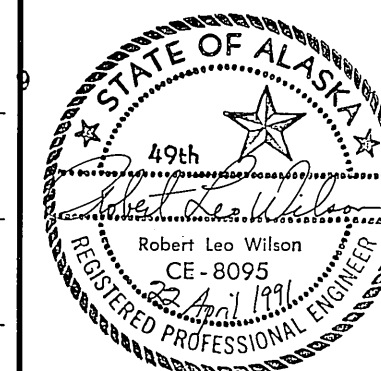
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OF
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TOTAL SHEET

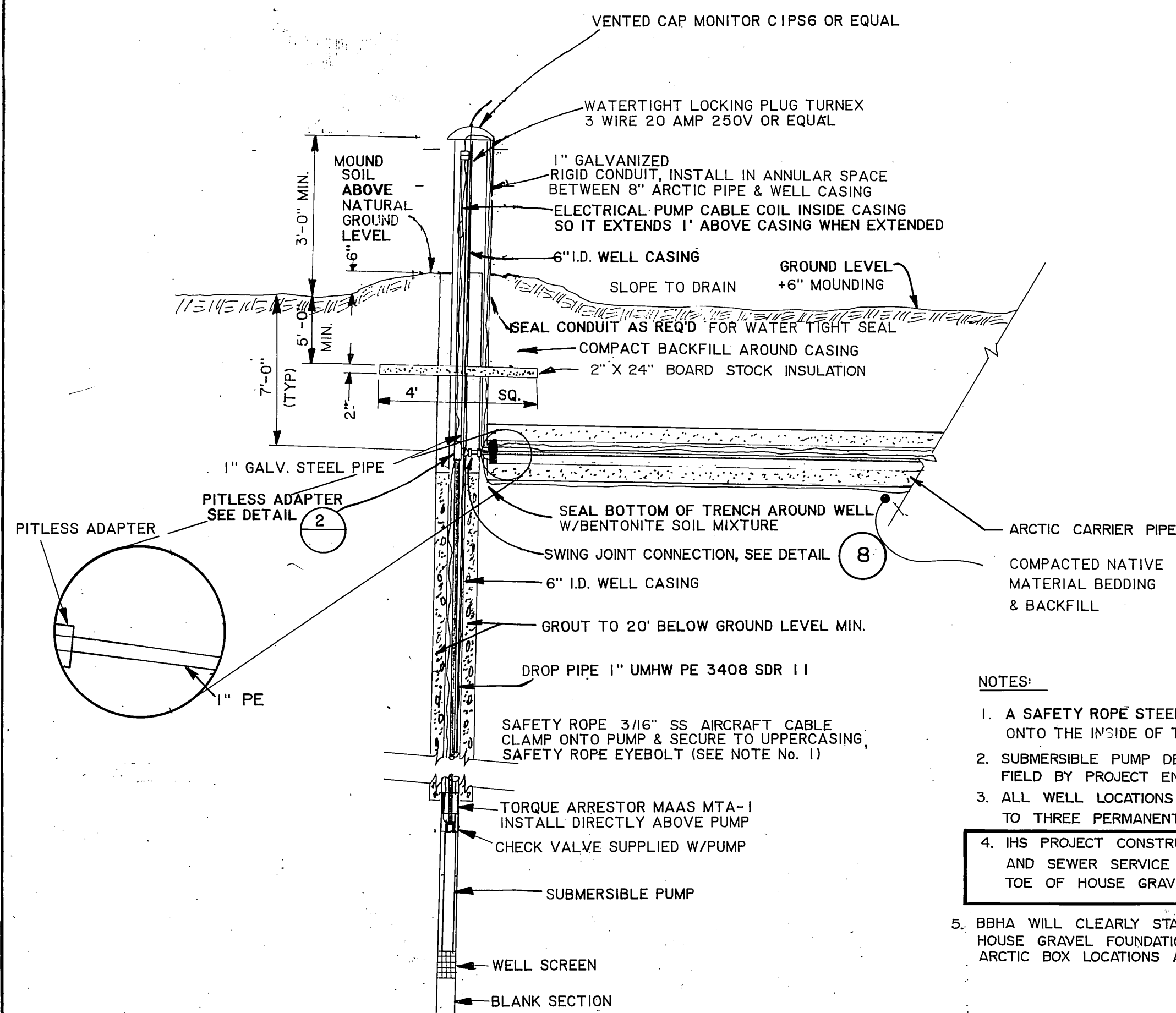
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DATE: 4-9

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DATE: _____

SANITATION FACILITIES CONSTRUCTION BRANCH
ENVIRONMENTAL HEALTH AND ENGINEERING BRANCH
ALASKA AREA NATIVE HEALTH SERVICE
ANCHORAGE, ALASKA

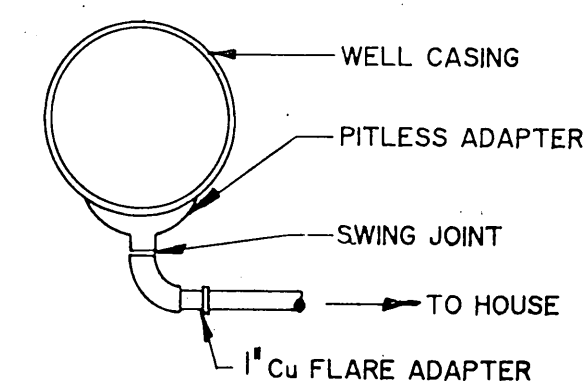
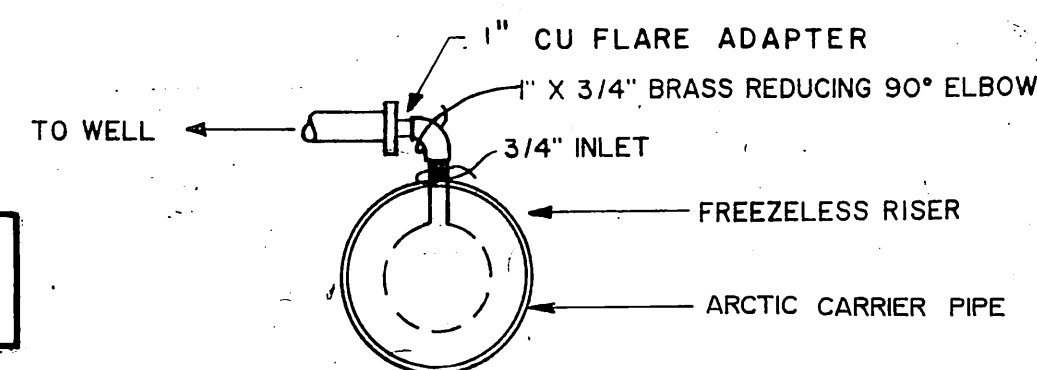
Mary C. Yipine
 Design Engineer
 D. M. Biny
 Maintenance Review
 Material Take-off





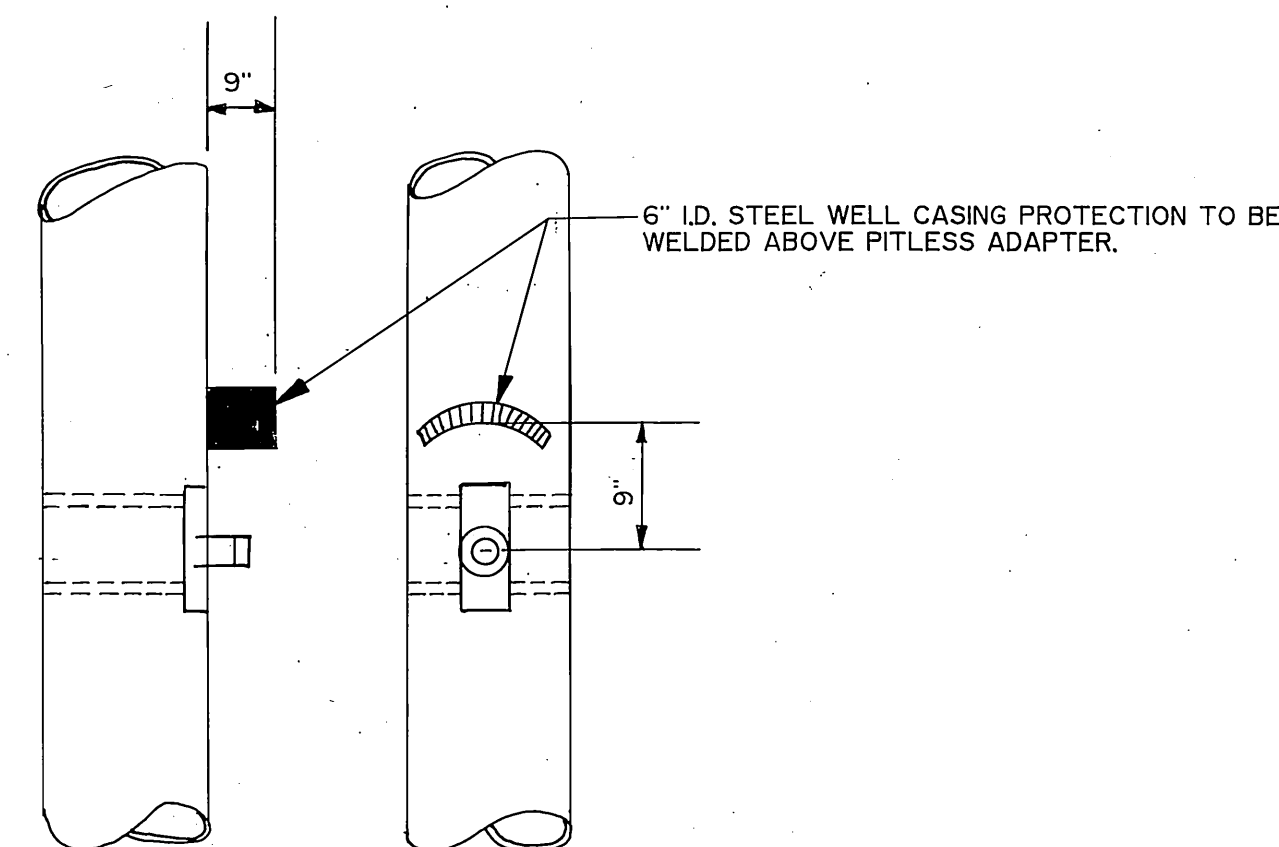
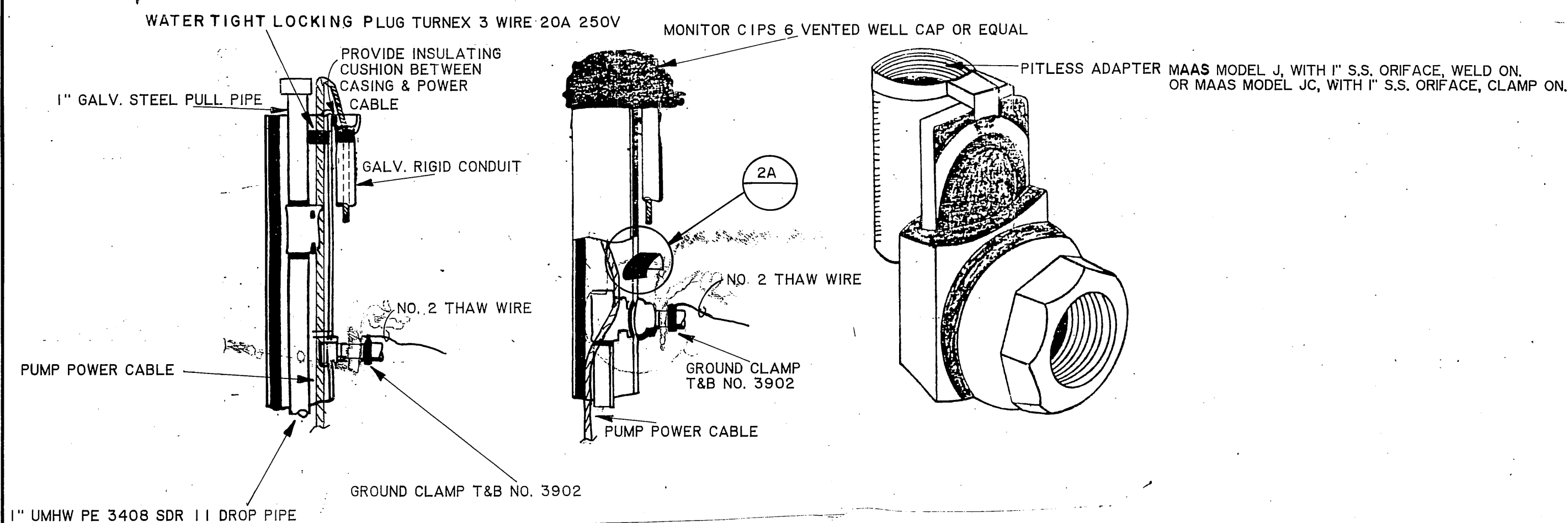
NOTES:

1. A SAFETY ROPE STEEL EYEBOLT SHALL BE WELDED ONTO THE INSIDE OF THE UPPER CASING.
2. SUBMERSIBLE PUMP DEPTH TO BE SET IN THE FIELD BY PROJECT ENGINEER.
3. ALL WELL LOCATIONS SHALL BE REFERENCED TO THREE PERMANENT ABOVE GROUND STRUCTURES.
4. IHS PROJECT CONSTRUCTION LIMITS FOR WATER AND SEWER SERVICE LINES IS 5 FEET FROM TOE OF HOUSE GRAVEL FOUNDATION PAD.
5. BBHA WILL CLEARLY STAKE THE FOUR CORNERS OF EACH HOUSE GRAVEL FOUNDATION PAD AND THE WATER AND SEWER ARCTIC BOX LOCATIONS AT EACH HOUSE SITE.



1 INDIVIDUAL WATER SYSTEM LAYOUT
NOT TO SCALE

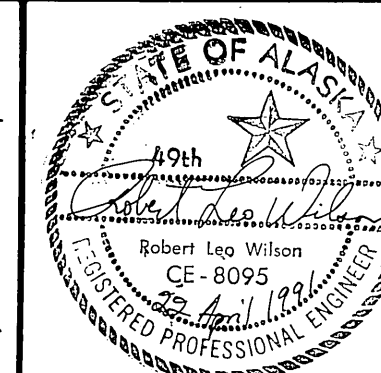
7 FREEZELESS RISER SWING JOINT DETAIL
NTS



2 PITLESS ADAPTER AND CAP DETAIL
NOT TO SCALE

2A PITLESS ADAPTER PROTECTOR
NOT TO SCALE

Man C. Wille
Design Engineer
Robert Leg Wilson
Maintenance Review
Material Take-off

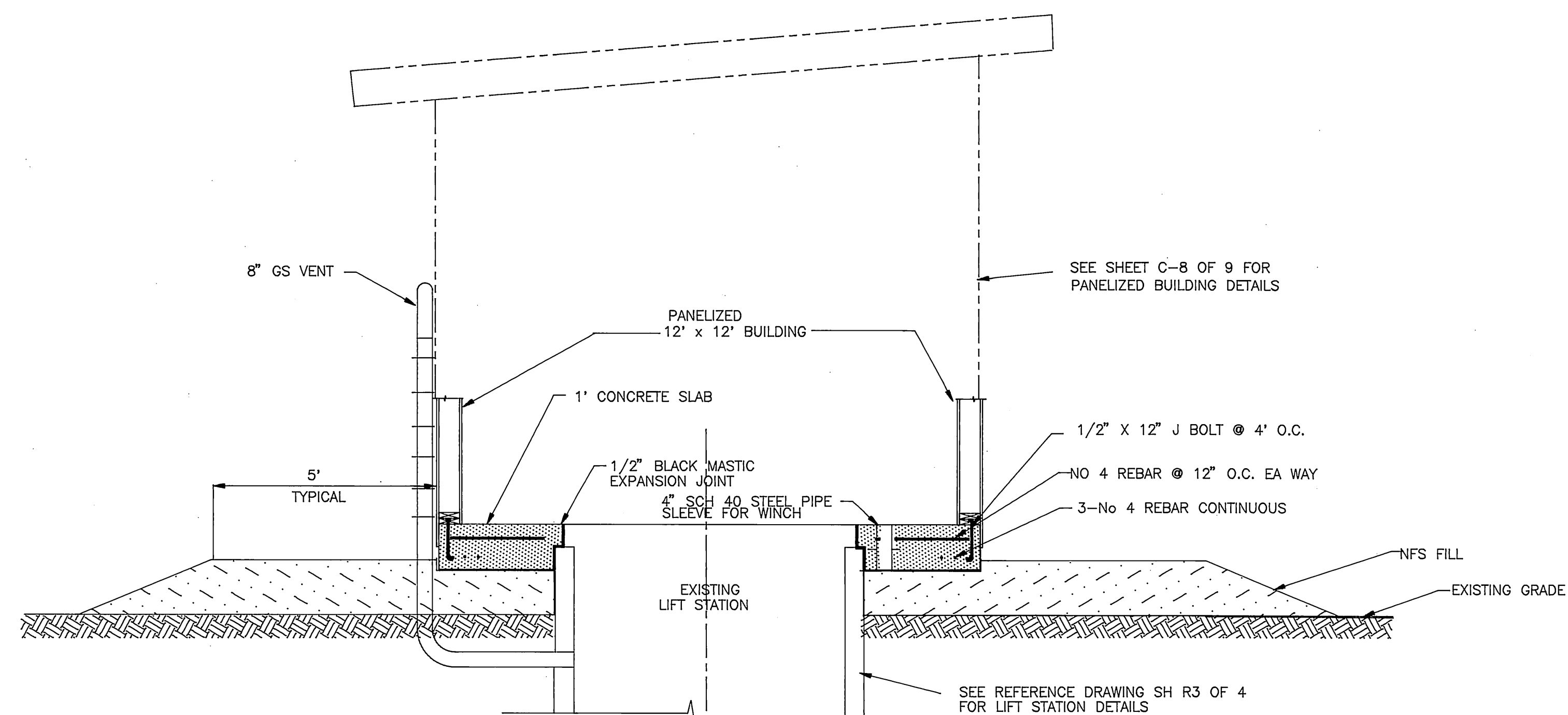


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U. S. Department of Health & Human Services Public Health Service Indian Health Service			
EKWOK, ALASKA TYPICAL INDIVIDUAL WATER SYSTEM DETAILS PUBLIC LAW 86-121 PROJECT PROJECT NO AN-89-981			SHEET NO. C-6 OF 9 TOTAL SHEETS

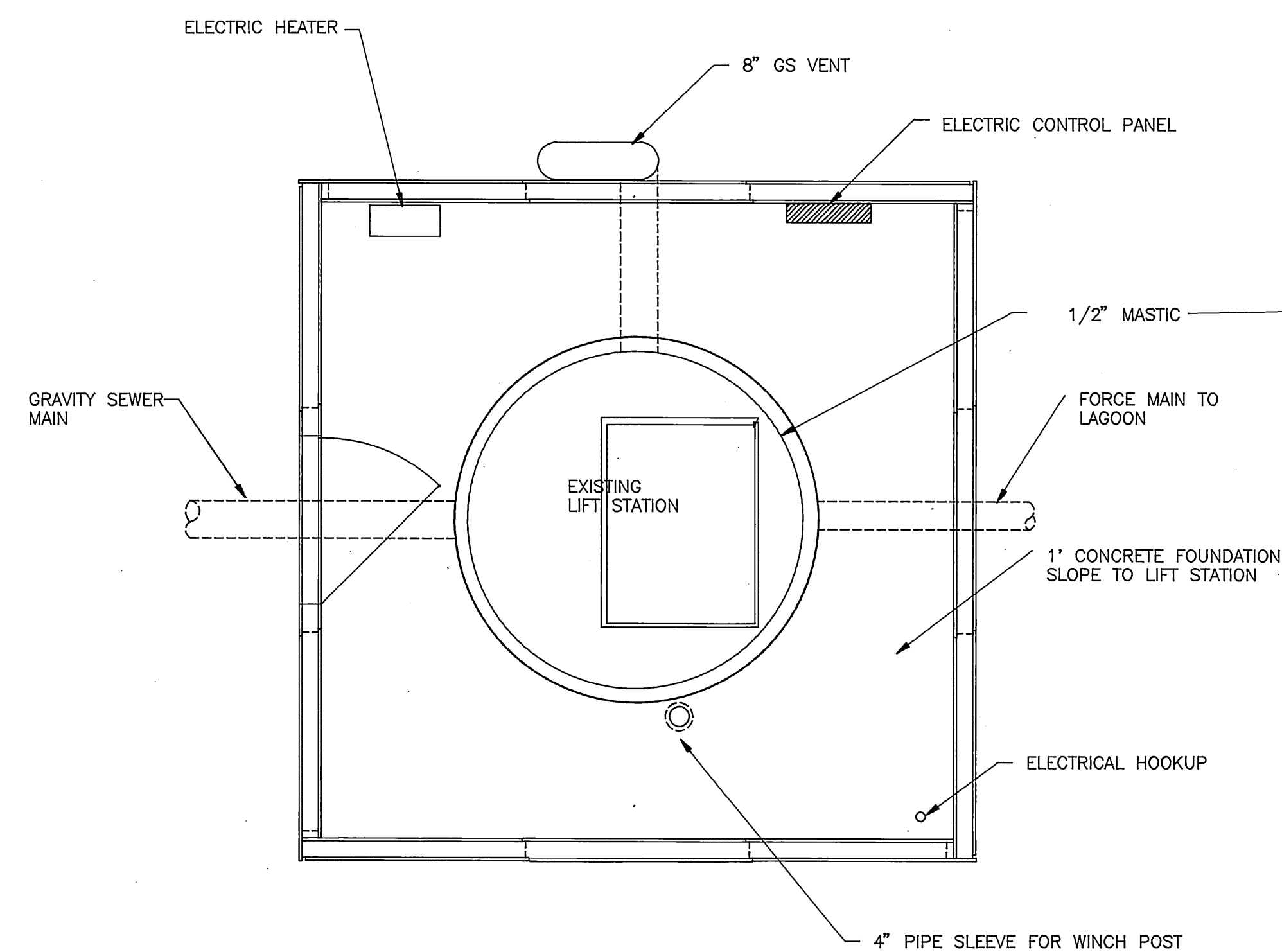
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SANITATION FACILITIES CONSTRUCTION BRANCH ENVIRONMENTAL HEALTH BRANCH ALASKA AREA NATIVE HEALTH SERVICE ANCHORAGE, ALASKA	
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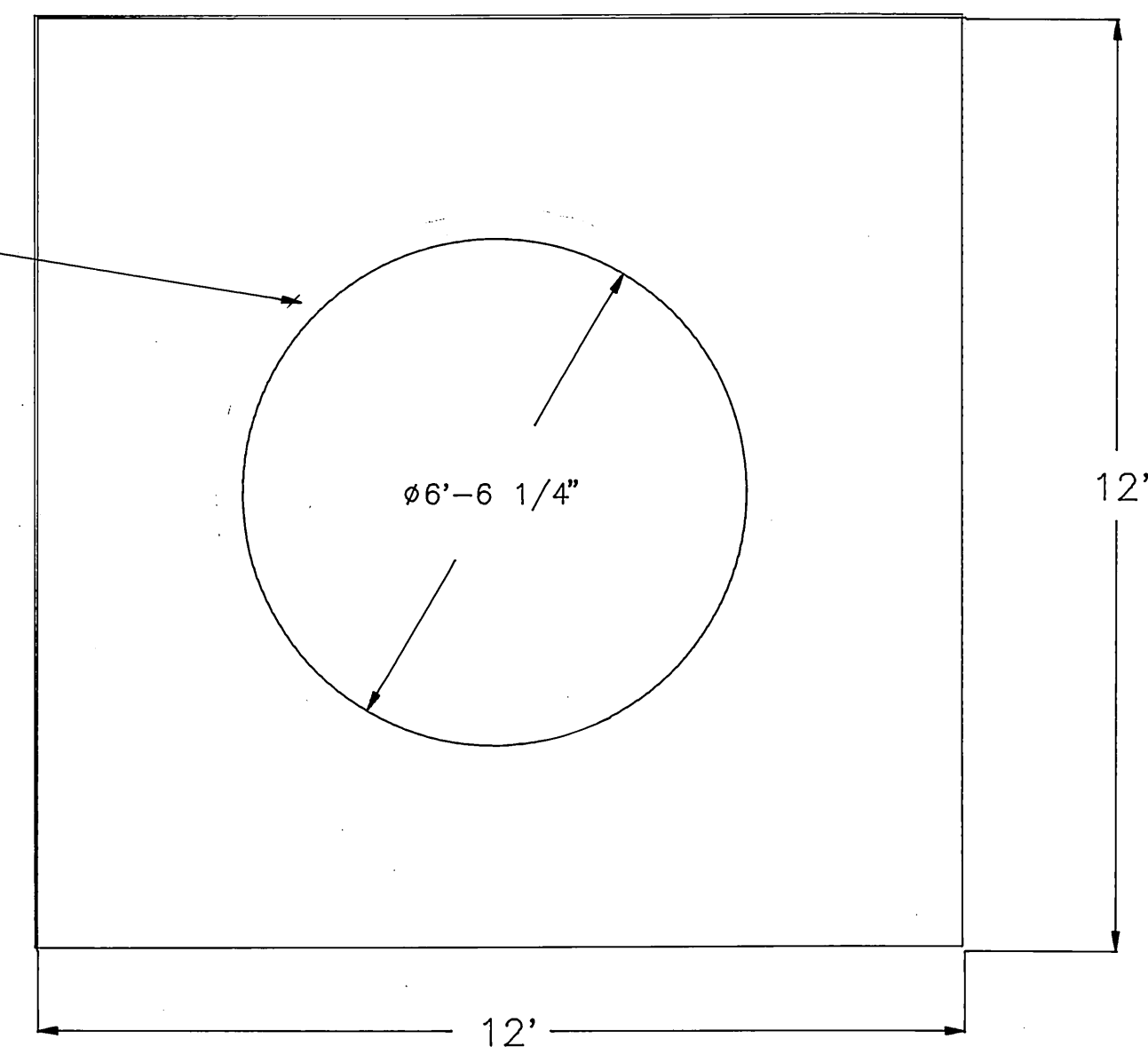
TYPICAL CROSS SECTION

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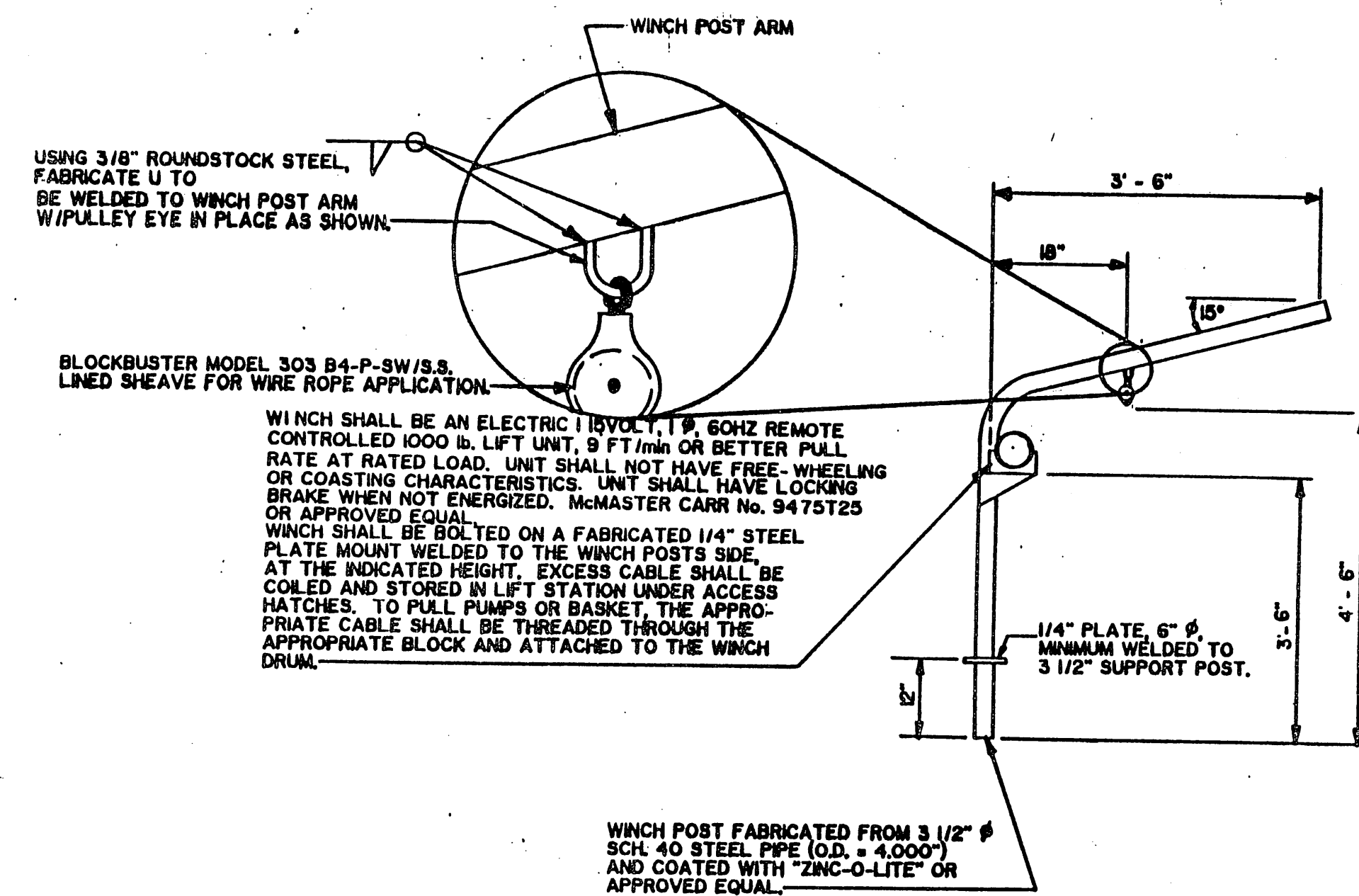
FLOOR PLAN

NTS



FOUNDATION PLAN

NTS



WINCH POST DETAIL

NTS

NOTE:
WINCH SHALL BE CAPABLE OF LIFTING
A MINIMUM OF 500 pounds.

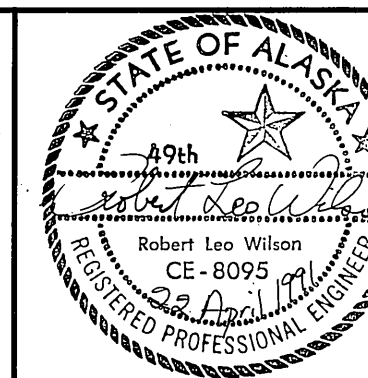
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DATE	REVISIONS	INITIALS

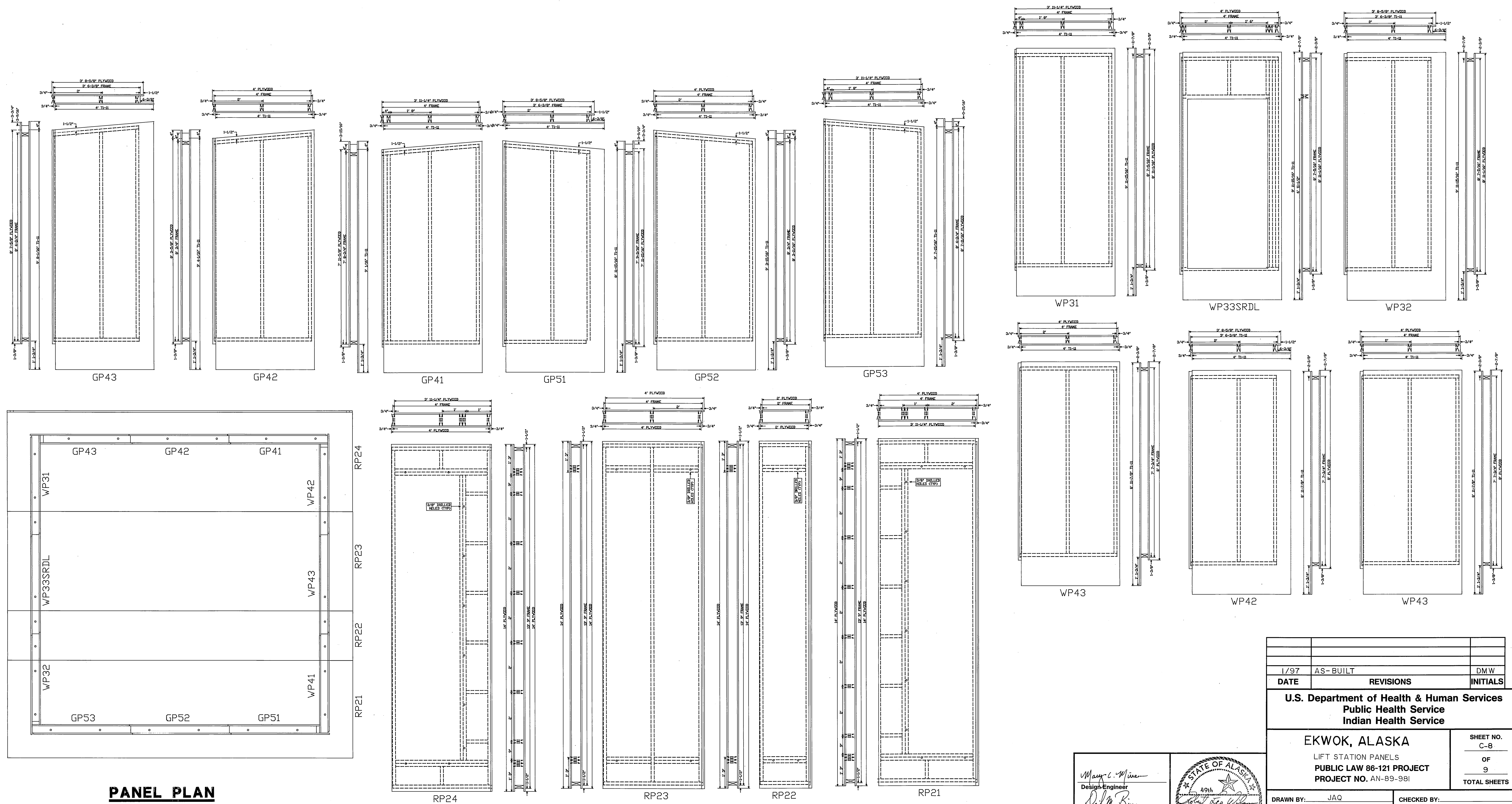
U.S. Department of Health & Human Services Public Health Service Indian Health Service		
EKWOK, ALASKA		SHEET NO. C-7
LIFT STATION FLOOR PLAN & DETAILS		OF 9
PUBLIC LAW 86-121 PROJECT PROJECT NO. AN-89-981		TOTAL SHEETS

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SANITATION FACILITIES CONSTRUCTION BRANCH ENVIRONMENTAL HEALTH AND ENGINEERING BRANCH ALASKA AREA NATIVE HEALTH SERVICE ANCHORAGE, ALASKA	
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Many C. Mine
Design Engineer
Robert Leo Wilson
Maintenance Review
Material Take-off





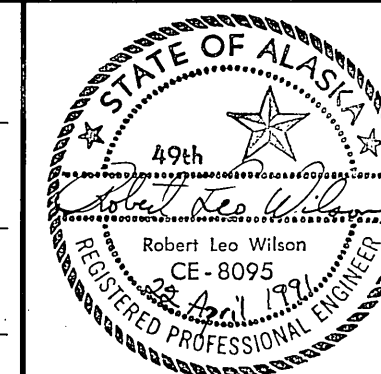
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U.S. Department of Health & Human Services Public Health Service Indian Health Service		
EKWOK, ALASKA		SHEET NO. C-8
LIFT STATION PANELS		OF
PUBLIC LAW 86-121 PROJECT		9
PROJECT NO. AN-89-981		TOTAL SHEETS

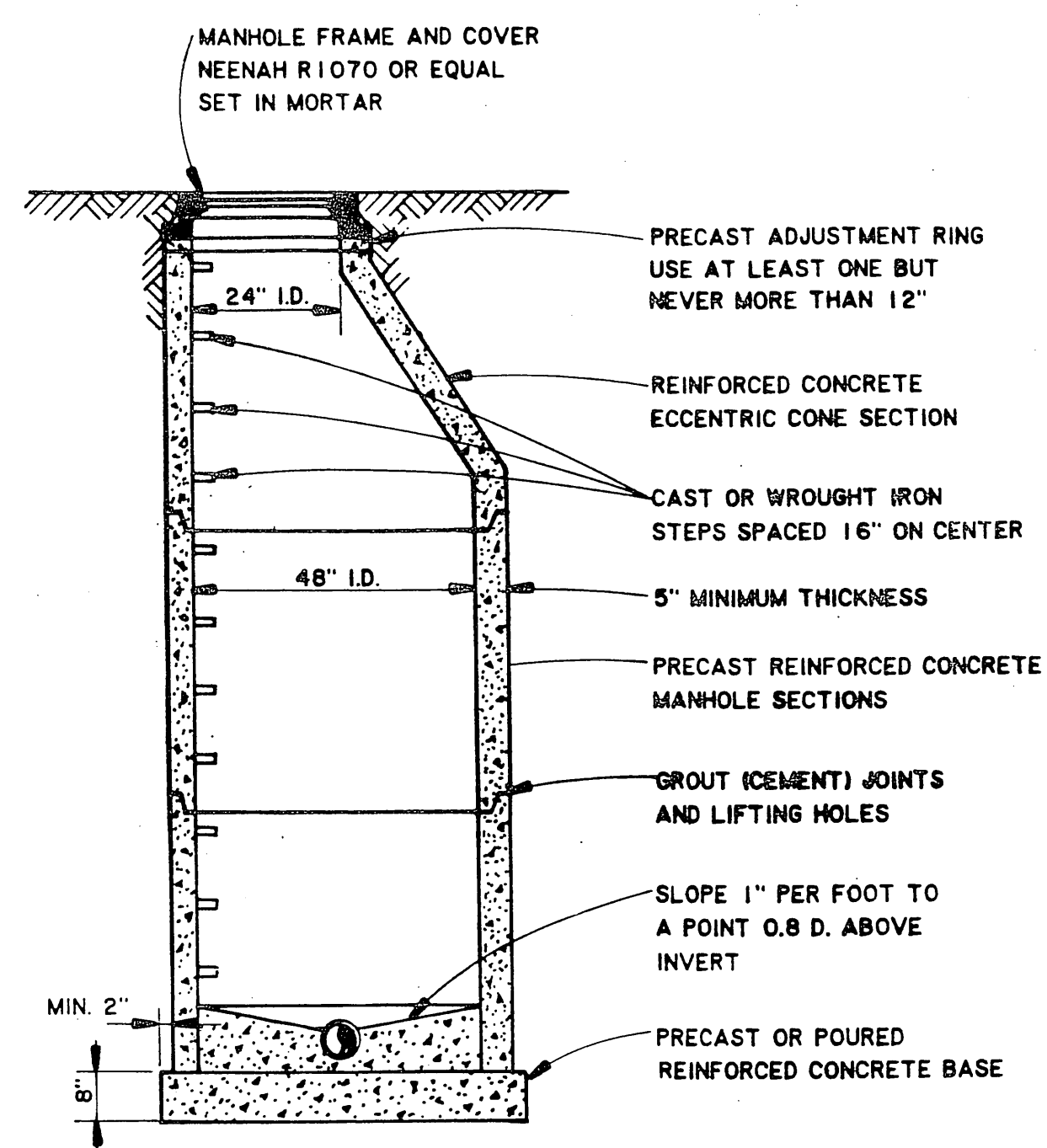
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SANITATION FACILITIES CONSTRUCTION BRANCH	
ENVIRONMENTAL HEALTH AND ENGINEERING BRANCH	
ALASKA AREA NATIVE HEALTH SERVICE	
ANCHORAGE, ALASKA	

May C. Wine
Design Engineer
Robert Leo Wilson
Maintenance Review

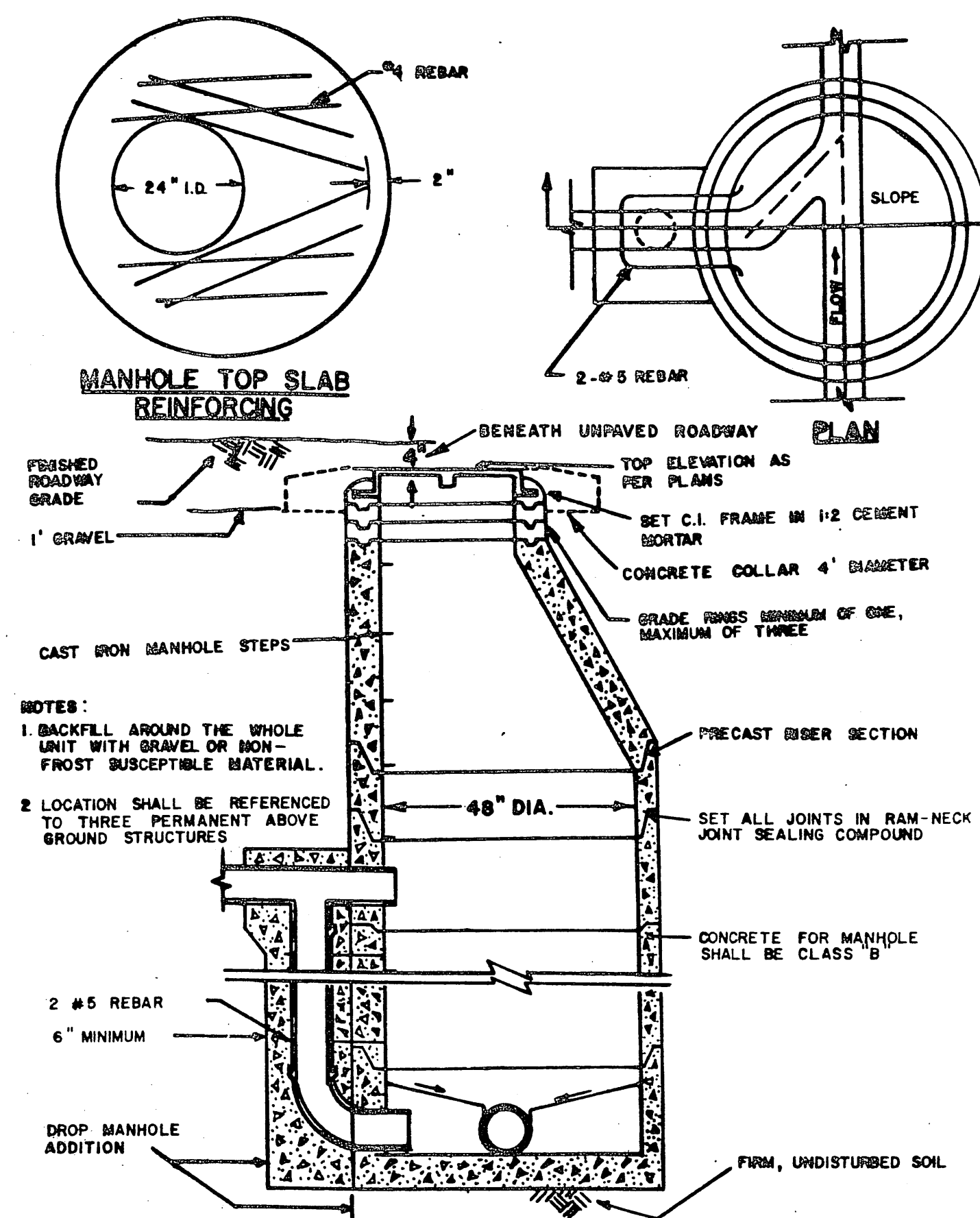


Material Take-off



STANDARD MANHOLE

NOT TO SCALE



CONCRETE MANHOLE WITH SIDE DROP INLET

NOT TO SCALE

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DATE	REVISIONS	INITIALS
U.S. Department of Health & Human Services Public Health Service Indian Health Service		
EKWOK, ALASKA		SHEET NO. C-9
MANHOLE DETAILS TYPICAL PUBLIC LAW 86-121 PROJECT PROJECT NO. AN-89-981		OF 9 TOTAL SHEETS
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SANITATION FACILITIES CONSTRUCTION BRANCH ENVIRONMENTAL HEALTH AND ENGINEERING BRANCH ALASKA AREA NATIVE HEALTH SERVICE ANCHORAGE, ALASKA		

May C. Miller
Design Engineer
Robert A. Boring
Maintenance Review
Material Take-off

