

INDEX OF DRAWINGS

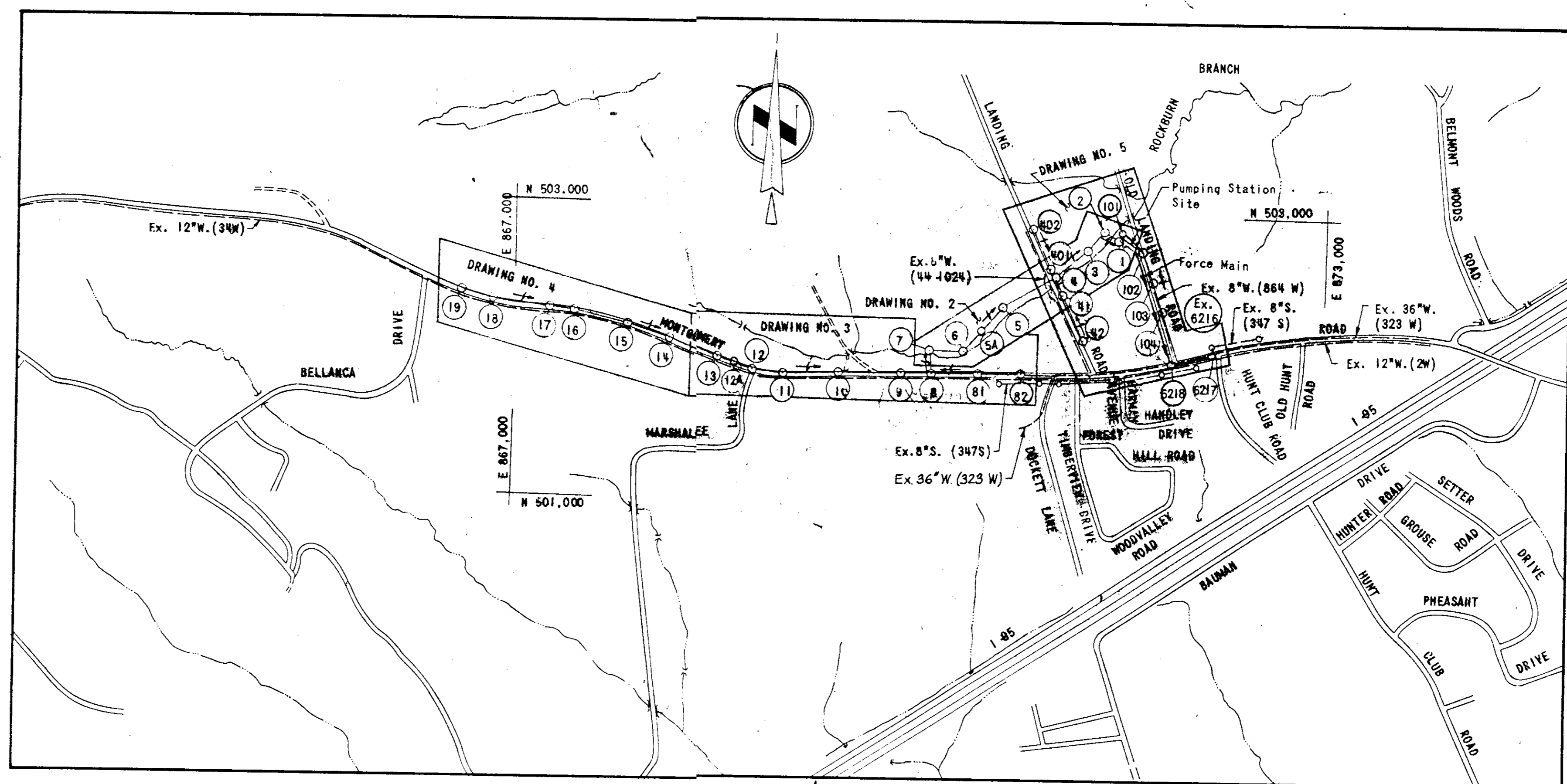
DRAWING NO.	TITLE
1	LOCATION PLAN
2	PLAN OF SEWER
3	PLAN OF SEWER
4	PLAN OF SEWER
5	PLAN OF SEWER
6	PROFILES OF SEWER AND FORCE MAIN
7	PROFILES OF SEWER MAINS
8	PUMPING STATION-ARCHITECTURAL
9	PUMPING STATION-STRUCTURAL
10	PUMPING STATION-MECHANICAL-STRUCTURAL
11	PUMPING STATION-MECHANICAL-STRUCTURAL SITE-ELECTRICAL
12	PUMPING STATION-ELECTRICAL
13	PUMPING STATION-ELECTRICAL
14	PUMPING STATION-ELECTRICAL

Reviewed for Howard County S.C.D. and meets technical requirements.
 Date: 8-15-84
 J. M. ...
 CHIEF, UTILITY DIVISION

This development plan is approved for soil erosion and sediment control by the Howard County Soil Conservation District.
 Date: 9-12-84
 Approved: ...
 HOWARD COUNTY S.C.D.

ENGINEER'S CERTIFICATION
 I certify that this plan for erosion and sediment control represents a practical and feasible plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.
 Date: 5/31/83
 Rummel, Klepper & Kahl
 CONSULTING ENGINEERS
 BALTIMORE, MARYLAND

DEVELOPER'S CERTIFICATION
 I certify that all development and construction will be done according to this plan, and that any reasonable personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion in force during the project.
 Date: 8-15-84
 DEPARTMENT OF ENGINEERING
 DEPARTMENT OF PUBLIC WORKS



LOCATION PLAN
 Scale: 1"=300'

ITEM	QUANTITIES			MATERIAL SUPPLIER
	ESTIMATED	TYPE	AS BUILT	
4-Inch Force Main	930 L.F.			
6-Inch House Connections	1000 L.F.			
8-Inch Sewer Main	7700 L.F.			
Manholes	33 EA.			
Pumping Station And Appurtenances	1 L.S.			

SEWER CODE FOR COUNTY USE ONLY:
 SEWER NO. 2150562

NUMBER OF S.H.C. = 20 D.H.C. = 27

DRAINAGE AREA: PATAPSCO

APPROVED: For Public Water, Public Sewerage And Storm Drainage Systems And Roads
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: ... DATE: 10-23-84
 CHIEF, BUREAU OF ENGINEERING

APPROVED: For Public Water And Public Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: ... DATE: 10-22-84

APPROVED: Howard County Office of Planning And Zoning
 PLANNING DIRECTOR: ... DATE: 10-24-84
 CHIEF, DIVISION OF LAND DEV. & ZONING ADMIN. DATE: 10-19-84

CONTRACT NO. 10-1043
 CAPITAL PROJECTS S-6089-2 AND S-6127

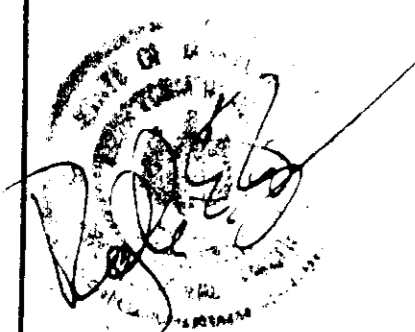
ROCKBURN BRANCH COLLECTION SYSTEM
 MONTGOMERY ROAD SECTION

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

ADDRESS CHECK	
LOT NO.	STREET ADDRESS
P.66	5736 OLD LANDING ROAD

SUBMISSION NAME		SECTION/AREA	LOT/PARCEL NO.
OLD LANDING RD. PUMPING STATION			P.66
PLAT NO. OR L.P.	BLOCK NO.	TAX/ZONE MAP	ELEV. DIST.
232/227	6	R-20	37
WATER CODE	SEWER CODE	CENSUS 1970	
	2150562	1ST 6011	



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Director of Public Works: ... DATE: 10-17-84
 Chief, Bureau of Utilities: ... DATE: 10-10-84

RUMMEL, KLEPPER & KAHL
 CONSULTING ENGINEERS
 1805 NORTH CALVERT STREET
 BALTIMORE, MARYLAND 21202

CONTRACT NO. 10-1043
 CAPITAL PROJECT NO. S-6089-2 & S-6127

LOCATION PLAN

ROCKBURN BRANCH MONTGOMERY ROAD SECTION
 ELECTION DISTRICT 1
 HOWARD COUNTY, MARYLAND

DRAWING NO. 1 OF 14
 SCALE AS SHOWN

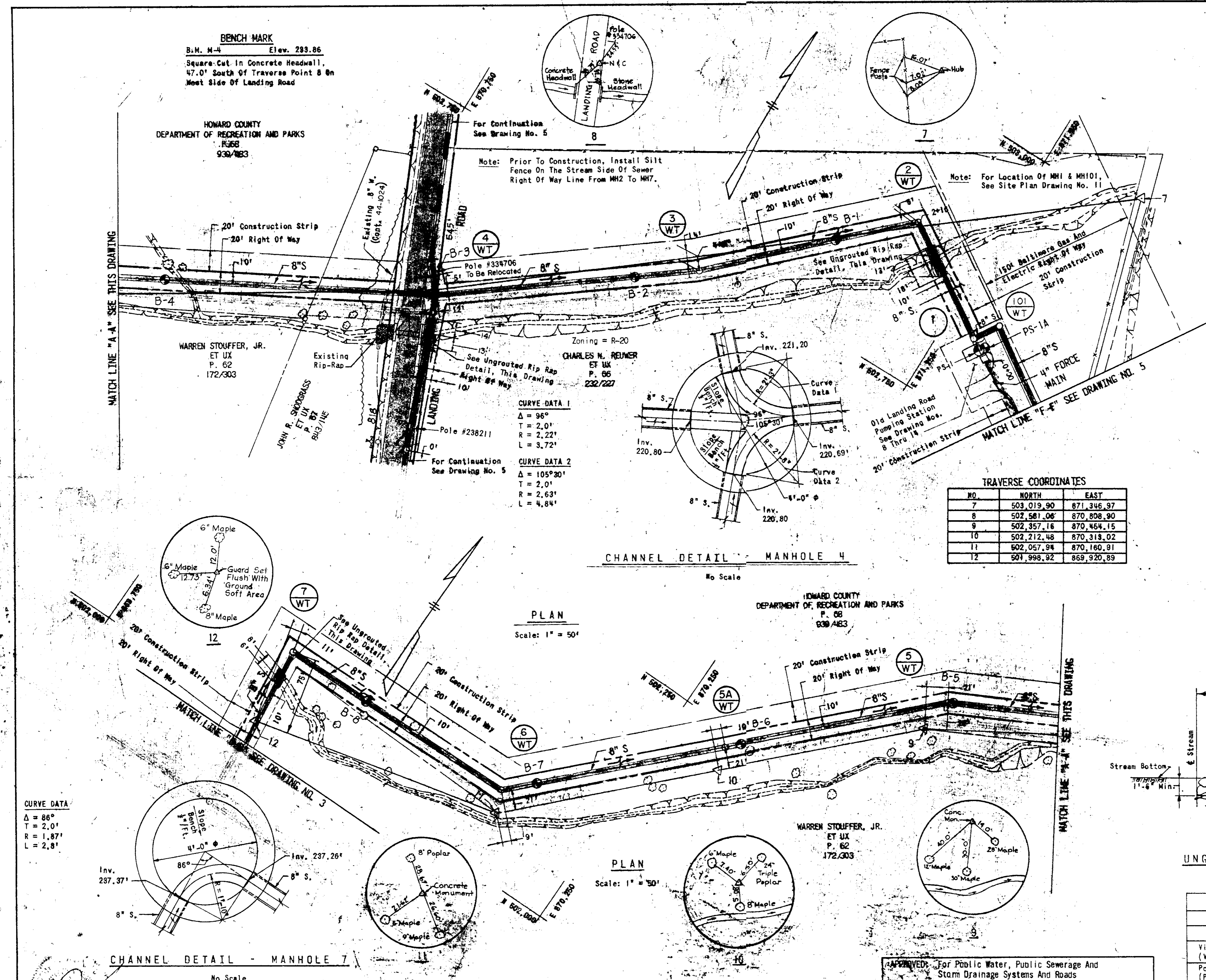
Contract Awarded 3-27-85

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 9-7-84

ROCKBURN BRANCH COLLECTION SYSTEM
 MONTGOMERY ROAD SECTION
 PROJECT NOS. S-6089-2 & S-6127
 CONTRACT NO. 10-1043
 SDP 1 OF 5

GENERAL NOTES

1. Approximate Locations Of Existing Mains Are Shown. The Contractor Shall Take All Necessary Precautions To Protect Existing Mains And Services And Maintain Uninterrupted Supply. Any Damage Incurred Shall Be Repaired Immediately To The Satisfaction Of The Engineer At The Contractor's Expense.
2. All Horizontal Controls Are Based On Maryland State Coordinates.
3. All Vertical Controls Are Based On U.S.G.S. Data.
4. All Pipe Elevations Shown Are Invert Elevations Unless Otherwise Indicated. Clear All Utilities By A Minimum Of 6". Clear All Poles By 7'-0" Minimum Or Tunnel As Required. The Owner Has Contacted The Utilities Companies And Has Made Arrangements For Relocating Or Bracing Of Poles As Shown On The Drawings. The Contractor's Work Requires Relocating Or Bracing Of Additional Poles, Any Cost Incurred By The Owner For Relocating Or Bracing Additional Poles Or Damages Shall Be Deducted From Money Owed The Contractor. The Contractor Shall Coordinate With The Utility Companies To Schedule The Relocating Or Bracing Of The Poles.
5. For Details Not Shown On The Drawings, And For Materials And Construction Methods, Use Howard County Design Manual, Volume IV, Standard Specifications And Details For Construction. The Contractor Shall Have A Copy Of Volume IV On The Job.
6. Where Test Pits Have Been Made On Existing Utilities, They Are Noted By The Symbol At The Location Of The Test Pit. A Note Or Notes, Containing The Results Of The Test Pit Or Pits Is Included On The Drawings. Existing Utilities In The Vicinity Of The Proposed Work For Which Test Pits Have Not Been Dug Shall Be Located By The Contractor Two Weeks In Advance Of Construction Operations At His Own Expense.
7. Contractor Shall Notify The Following Utilities Or Agencies At Least Five Working Days Before Starting Work Shown On These Plans:
 State Highway Administration - 531-5533
 Baltimore Gas & Electric Co. - Contractor Services - 561-2585
 Baltimore Gas & Electric Co. Underground Damage Control - 294-5621
 Baltimore Gas & Electric Co. Trouble Shooting - 298-9013
 Miss Utility - 1-559-0100
 Colonial Pipeline Co. - 795-1390
 Bureau Of Utilities, Howard County Department Of Public Works - 992-2366
8. Trees And Shrubs Are To Be Protected From Damage To Maximum Extent. Trees And Shrubs Located Within The Construction Strip Are Not To Be Removed Or Damaged By The Contractor.
9. Contractor Shall Remove Trees, Stumps And Roots Along Line Of Excavation. Payment For Such Removal Shall Be Included In The Unit Price Bid For Construction Of The Main.
10. All Sewer Mains Shall Be V.C.P., H.D.P. Or P.V.C. Unless Otherwise Noted.
11. The Contractor Shall Provide A Joint In All Sewer Mains Within 2'-0" Of Exterior Manhole Wall.
12. All Manholes Shall Be 4'-0" Inside Diameter Unless Otherwise Noted.
13. Force Mains Shall Be D.I.P. Only.
14. Manholes Shown With 12" And 16" Walls Are Brick Manholes Only.
15. Manholes Designated W.T. In Plan And Profile Shall Have Watertight Frame And Covers, Standard Detail GS.52. Where Watertight Manhole Frame And Cover Is Used, Set Top Of Frame 1'-6" Above Finished Grade Unless Otherwise Noted On The Drawings.
16. House(s) With The Symbol "C.N.S." Indicates That Cellar Cannot Be Served.
17. The Location Of Each House Connection Is Shown Schematically Only. Final Location Is To Be Determined In The Field By The Engineer After Consultation With The Property Owner, And The County.
18. All Force Main Fittings Shall Be Buttered With Concrete In Accordance With Standard Details For Water Mains Unless Otherwise Noted In Special Provisions Or On The Contract Drawings.
19. The Contractor Shall Comply With All Requirements For Sediment And Erosion Control As Indicated On The Contract Drawings And As Set Forth In Article 15, Protection Of The Environment, Of Volume IV Of Howard County Design Manual, Standard Specifications And Details For Construction.
20. Following Initial Soil Disturbance Or Redisturbance, Permanent Or Temporary Stabilization Shall Be Completed Within:
 a. Seven Calendar Days As To The Surface Of All Perimeter Controls, Dikes, Swales, Ditches, Perimeter Slopes, And All Slopes Greater Than 3 Horizontal To 1 Vertical.
 b. Fourteen Days As To All Other Disturbed Or Graded Areas On The Project Site.

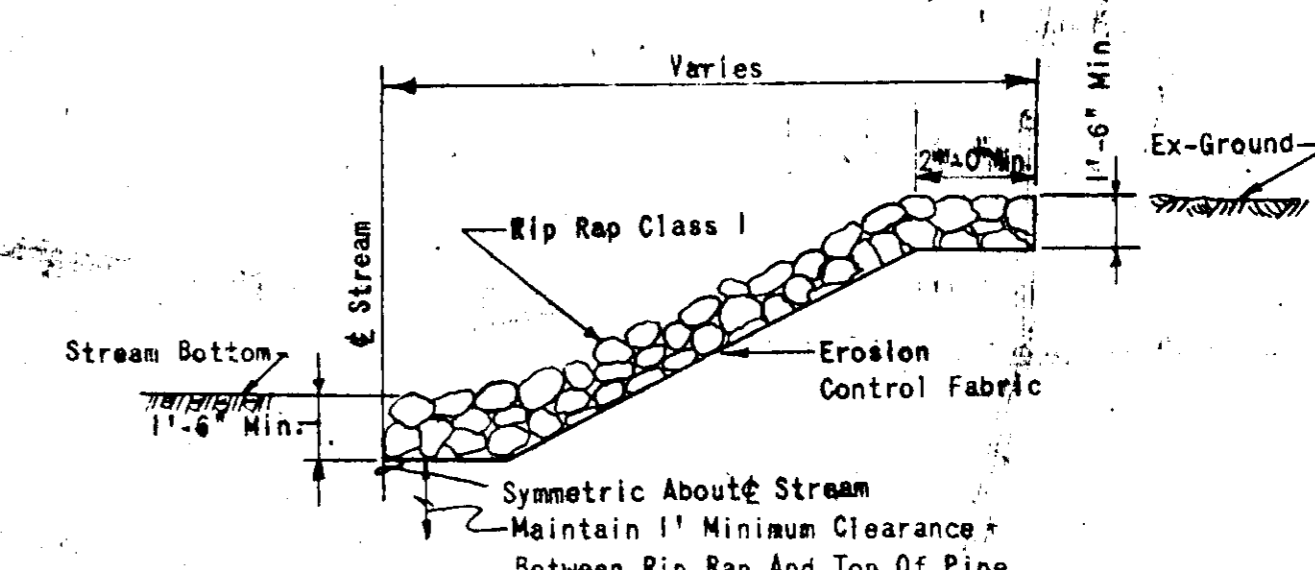


CHANNEL DETAIL - MANHOLE 4
 No Scale

PLAN
 Scale: 1" = 50'

PLAN
 Scale: 1" = 50'

CHANNEL DETAIL - MANHOLE 7
 No Scale



UNGRAUNTED RIP RAP - DETAIL
 No Scale

PIPE CLASSES	
SEWER MAIN:	
MATERIAL	CLASS
Vitrified Clay Pipe (V.C.P.)	Extra Strength
Polyvinylchloride (P.V.C.)	SDR-35
High Density Polyethylene (H.D.P.)	SDR 32.5
FORCE MAIN	
MATERIAL	CLASS
Ductile Iron Pipe (D.I.P.)	52

APPROVED
 DIVISION OF LAND DEVELOPMENT
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 9-7-84

ROCKBURN BRANCH
 COLLECTION SYSTEM
 MONTGOMERY ROAD SECTION
 PROJECT NOS. S-6089-2 & S-6127
 CONTRACT NO. 10-1043
 SDP 2 OF 5

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

APPROVED: *[Signature]* 10-24-84
 PLANNING DIRECTOR DATE

APPROVED: *[Signature]* 10-29-84
 CHIEF, DIVISION OF LAND DEV. & ZONING ADMIN. DATE

APPROVED: *[Signature]* 10-23-84
 DIRECTOR DATE

APPROVED: *[Signature]* 10-23-84
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: *[Signature]* 10-17-84
 CHIEF, BUREAU OF UTILITIES DATE

APPROVED: *[Signature]* 10-10-84
 CHIEF, UTILITY DIVISION DATE

RUMMEL, KLEPPER & KAHL
 CONSULTING ENGINEERS
 1055 NORTH CALVERT STREET
 BALTIMORE, MARYLAND 21202

APPROVED: *[Signature]* 10-24-84
 PLANNING DIRECTOR DATE

APPROVED: *[Signature]* 10-29-84
 CHIEF, DIVISION OF LAND DEV. & ZONING ADMIN. DATE

APPROVED: *[Signature]* 10-23-84
 DIRECTOR DATE

APPROVED: *[Signature]* 10-23-84
 CHIEF, BUREAU OF ENGINEERING DATE

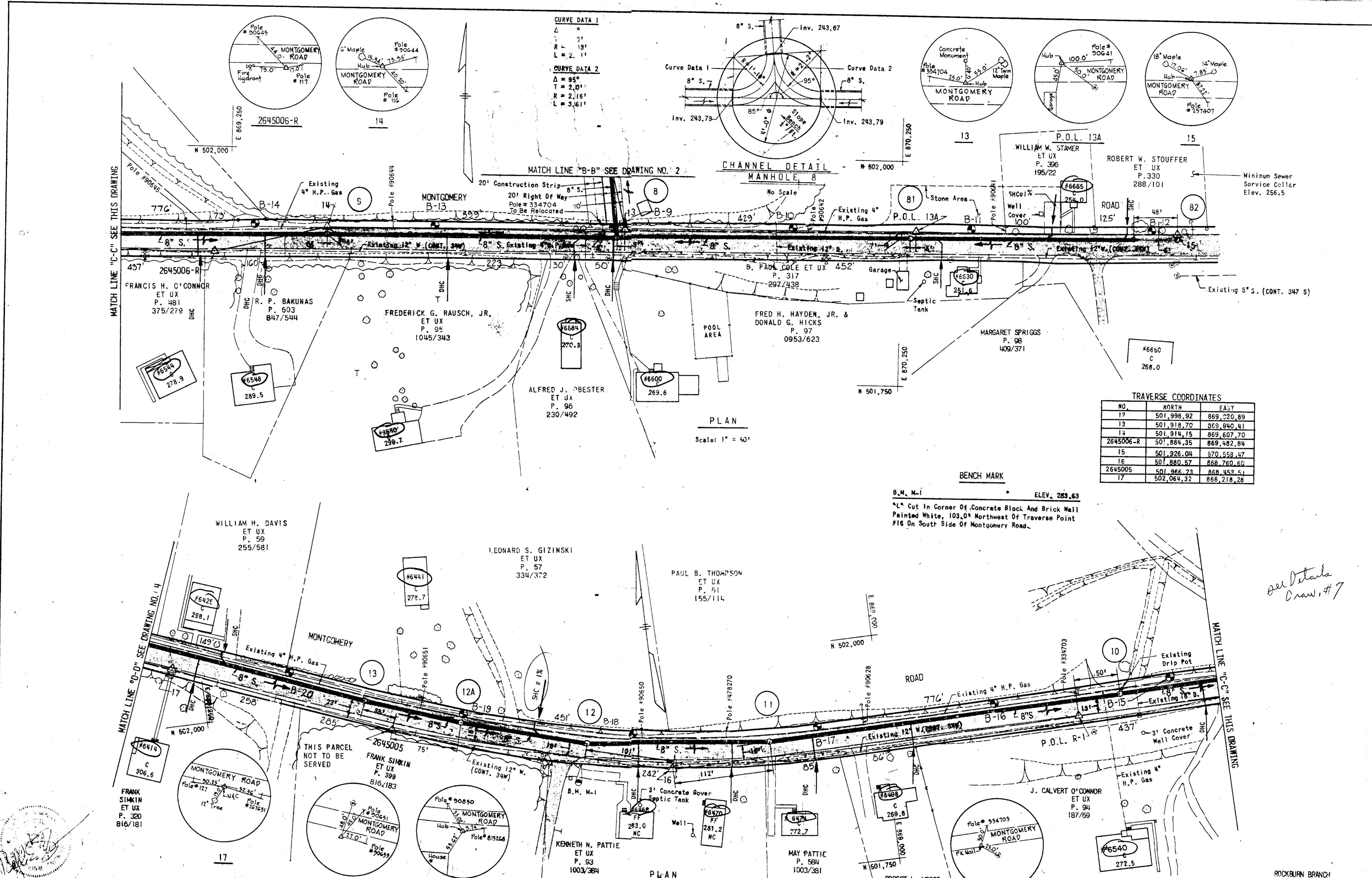
CONTRACT NO. 10-1043
 CAPITAL PROJECT NO. S-6089-2 & S-6127

PLAN OF SEWER

ROCKBURN BRANCH MONTGOMERY ROAD SECTION
 ELECTION DISTRICT 1
 HOWARD COUNTY, MARYLAND

DRAWING NO. 2
 OF 14

SCALE AS SHOWN



CURVE DATA 1
 $\Delta = 95^\circ$
 $R = 191'$
 $L = 2.11'$

CURVE DATA 2
 $\Delta = 95^\circ$
 $R = 2.01'$
 $L = 3.61'$

TRVERSE COORDINATES

NO.	NORTH	EAST
12	501,998.92	869,220.89
13	501,918.70	869,940.41
14	501,914.15	869,607.70
2645006-R	501,884.35	869,482.84
15	501,926.04	870,558.47
16	501,880.57	868,760.60
2645005	501,866.23	868,453.51
17	502,064.32	868,218.28

BENCH MARK
 B.M. M-1 ELEV. 289.63
 L Cut in Corner Of Concrete Block And Brick Wall Painted White, 103.0' Northwest Of Traverse Point #16 On South Side Of Montgomery Road.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Director of Public Works: [Signature]
 Chief, Bureau of Engineering: [Signature]
 Chief, Bureau of Utilities: [Signature]

DATE: 10-17-84

RUNNEL, KLEPPER & KAHL
 CONSULTING ENGINEERS
 BALTIMORE, MARYLAND

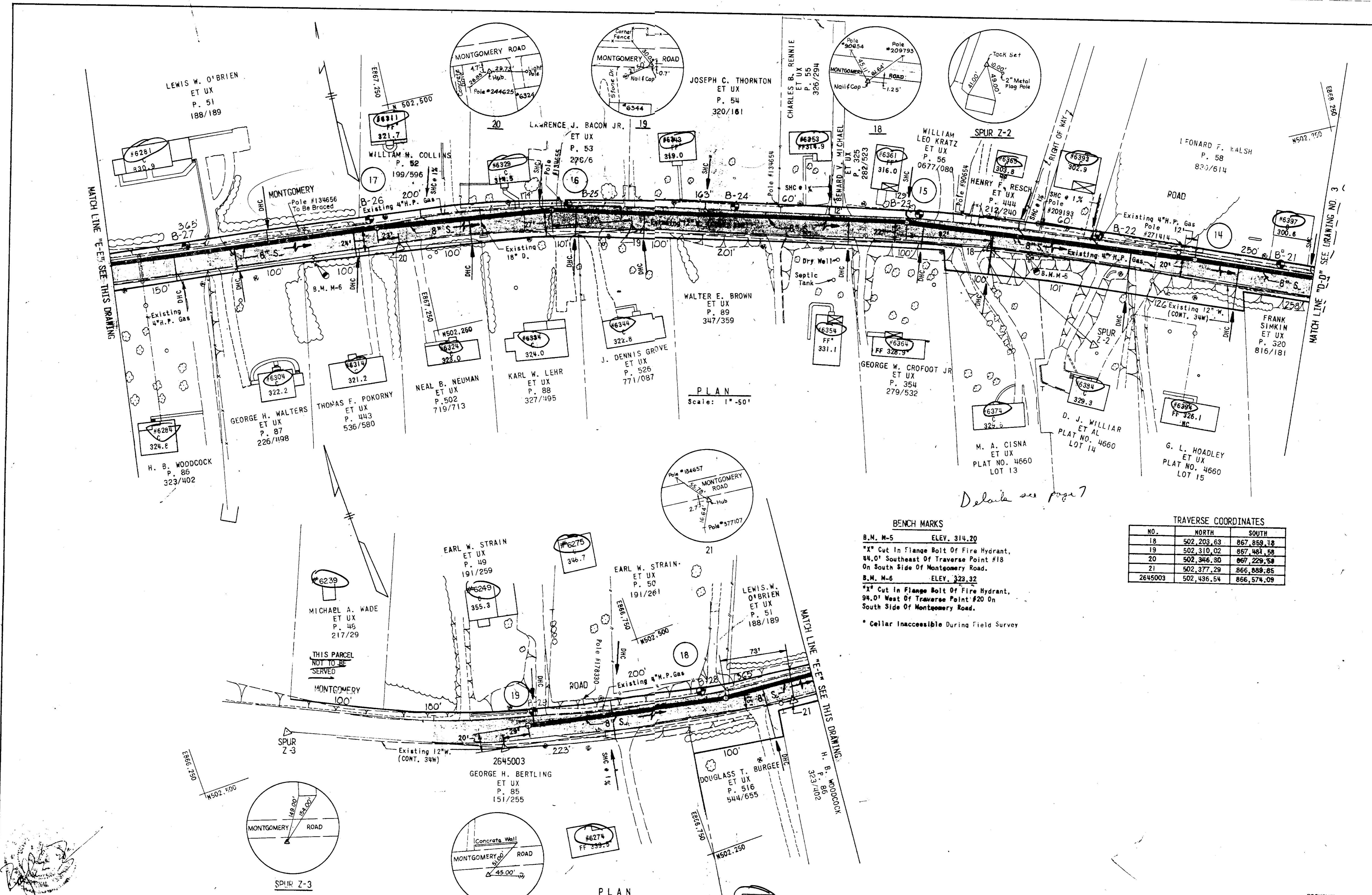
CONTRACT NO. 10-1043
CAPITAL PROJECT NO. S-6089-2 & S-6127

PLAN OF SEWER

ROCKBURN BRANCH MONTGOMERY ROAD SECTION
 ELECTION DISTRICT 1
 HOWARD COUNTY, MARYLAND

DRAWING NO. 3 OF 14
SCALE AS SHOWN

SDP 85-27



PLAN
Scale: 1"=50'

PLAN
Scale: 1"=50'

Details see page 7

BENCH MARKS

- B.M. M-5 ELEV. 314.20
"X" Cut in Flange Bolt of Fire Hydrant, 44.0' Southeast of Traverse Point #18 On South Side of Montgomery Road.
- B.M. M-6 ELEV. 323.32
"X" Cut in Flange Bolt of Fire Hydrant, 94.0' West of Traverse Point #20 On South Side of Montgomery Road.
- * Cellar Inaccessible During Field Survey

TRAVERSE COORDINATES

NO.	NORTH	SOUTH
18	502,203.63	867,859.18
19	502,310.02	867,481.58
20	502,346.30	867,229.58
21	502,377.29	866,889.85
2645003	502,436.54	866,574.09

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE
CHIEF BUREAU OF UTILITIES DATE

CHIEF BUREAU OF ENGINEERING DATE
CHIEF UTILITY DIVISION DATE

RUMMEL, KLEPPER & KAHL
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

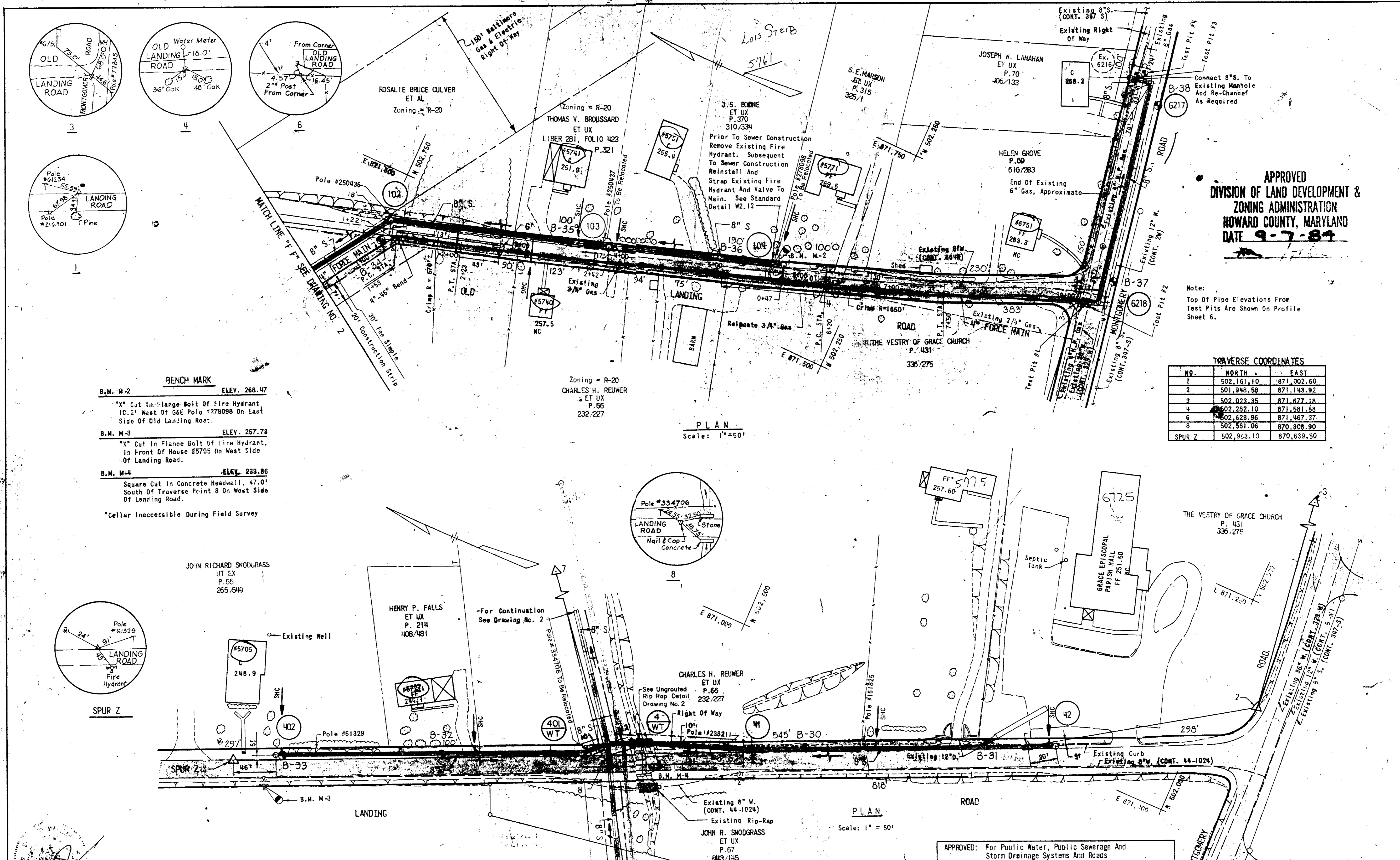
CONTRACT NO. 10-1043
CAPITAL PROJECT NO. S-6089-2 & S-6127

PLAN OF SEWER

ROCKBURN BRANCH MONTGOMERY ROAD SECTION
ELECTION DISTRICT I
HOWARD COUNTY, MARYLAND

DRAWING NO. 4 OF 14 SCALE AS SHOWN

ROCKBURN BRANCH
COLLECTION SYSTEM
MONTGOMERY ROAD SECTION
PROJECT NOS. S-6089-2 & S-6127
CONTRACT NO. 10-1043



APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 9-7-84

Note:
Top Of Pipe Elevations From
Test Pits Are Shown On Profile
Sheet 6.

TRAVERSE COORDINATES

NO.	NORTH	EAST
1	502,161.10	871,002.60
2	501,948.58	871,143.92
3	502,023.35	871,677.18
4	502,282.10	871,581.58
6	502,623.96	871,467.37
8	502,581.06	870,808.90
SPUR Z	502,933.10	870,639.50

BENCH MARK

B.M. M-2 ELEV. 266.47
X Cut In Flange Bolt Of Fire Hydrant
10.2' West Of G&E Pole #278088 On East
Side Of Old Landing Road.

B.M. M-3 ELEV. 257.73
X Cut In Flange Bolt Of Fire Hydrant,
In Front Of House #5705 On West Side
Of Landing Road.

B.M. M-4 ELEV. 233.86
Square Cut In Concrete Headwall, 47.0'
South Of Traverse Point 8 On West Side
Of Landing Road.

*Cellar Inaccessible During Field Survey

PLAN
Scale: 1" = 50'

PLAN
Scale: 1" = 50'



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

g.f. Neuman 10-18-84
DIRECTOR OF PUBLIC WORKS DATE

Chief, Bureau of Engineering

10-17-84
DATE

Chief, Utility Division

APPROVED: Howard County Office Of Planning And Zoning
10-24-84
DATE

PLANNING DIRECTOR

10-19-84
DATE

CHIEF, DIVISION OF LAND DEV. & ZONING ADMIN.

RUMMEL, KLEPPER & KAHL
CONSULTING ENGINEERS
1035 NORTH CALVERT STREET
BALTIMORE, MARYLAND 21202

CONTRACT NO. 46-1043
CAPITAL PROJECT NO. S-6089-2 & S-6127

PLAN OF SEWER

APPROVED: For Public Water And Public
Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
10-24-84
DATE

JOHN R. SNODGRASS
ET UX
P. 67
8M3/145

COUNTY HEALTH OFFICER

APPROVED: For Public Water, Public Sewerage And
Storm Drainage Systems And Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
10-23-84
DATE

g.f. Neuman
DIRECTOR

10-22-84
DATE

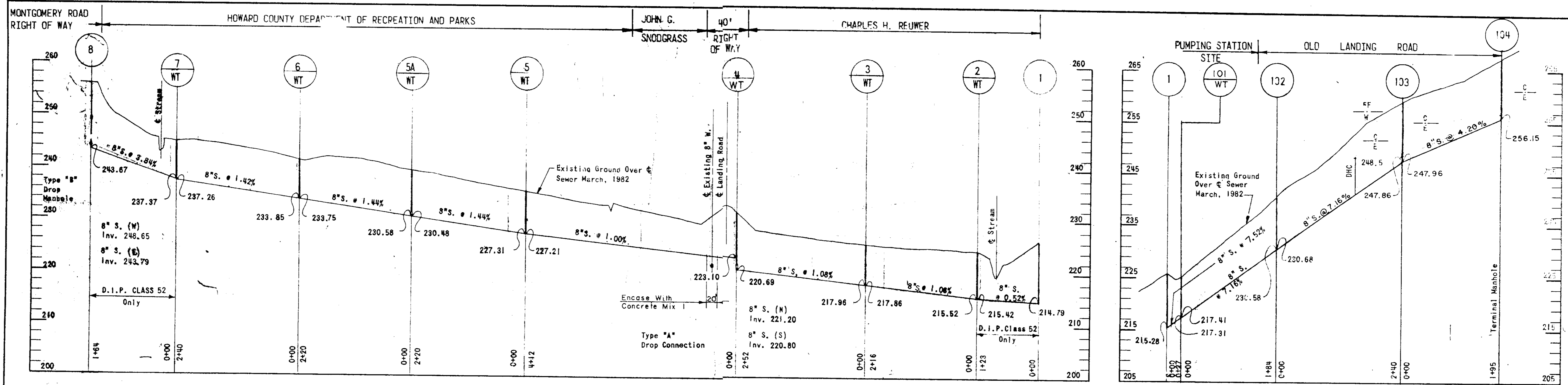
CHIEF, BUREAU OF ENGINEERING

ROCKBURN BRANCH
COLLECTION SYSTEM
MONTGOMERY ROAD SECTION
PROJECT NOS. S-6089-2 & S-6127
CONTRACT NO. 10-1043

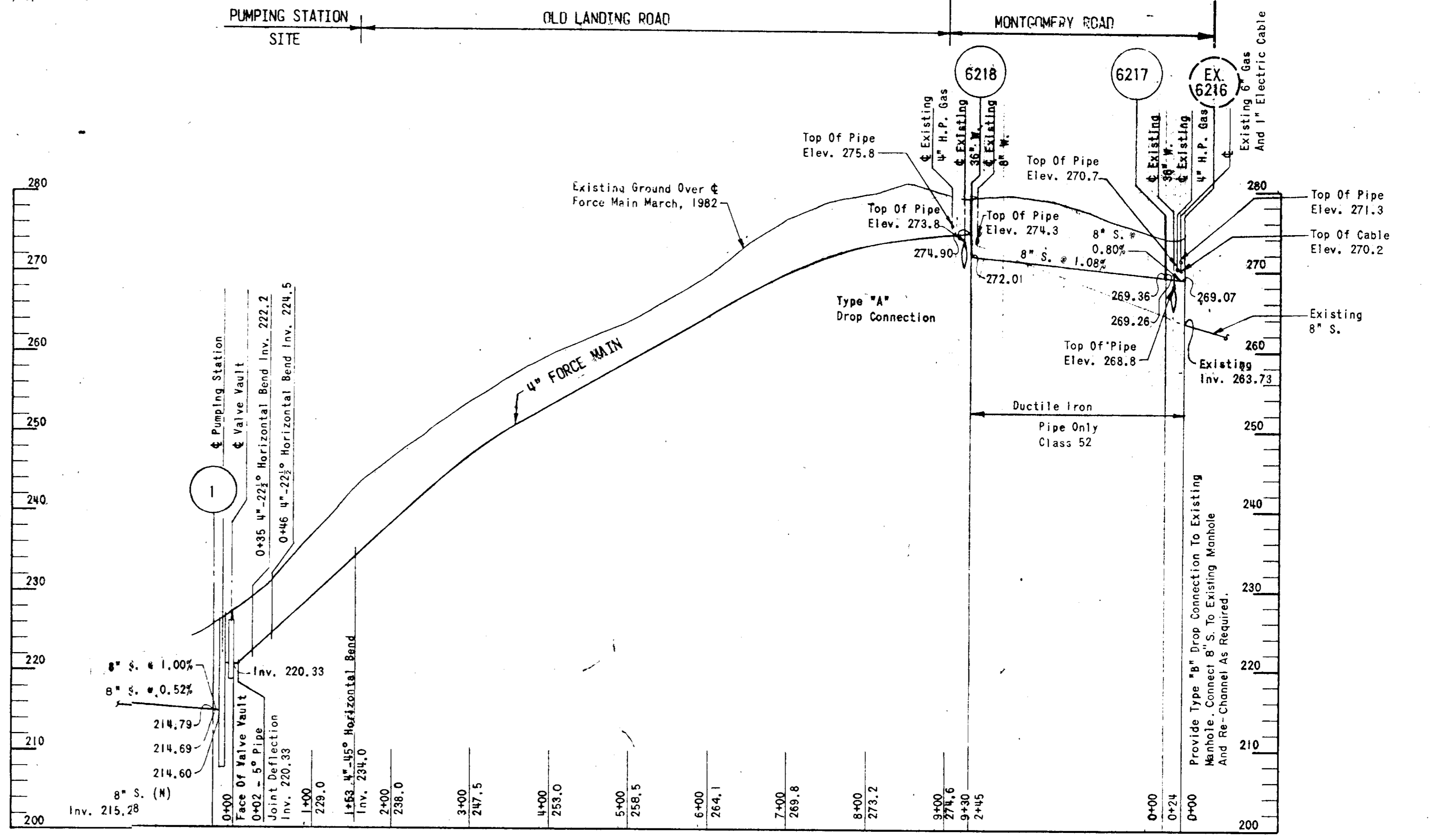
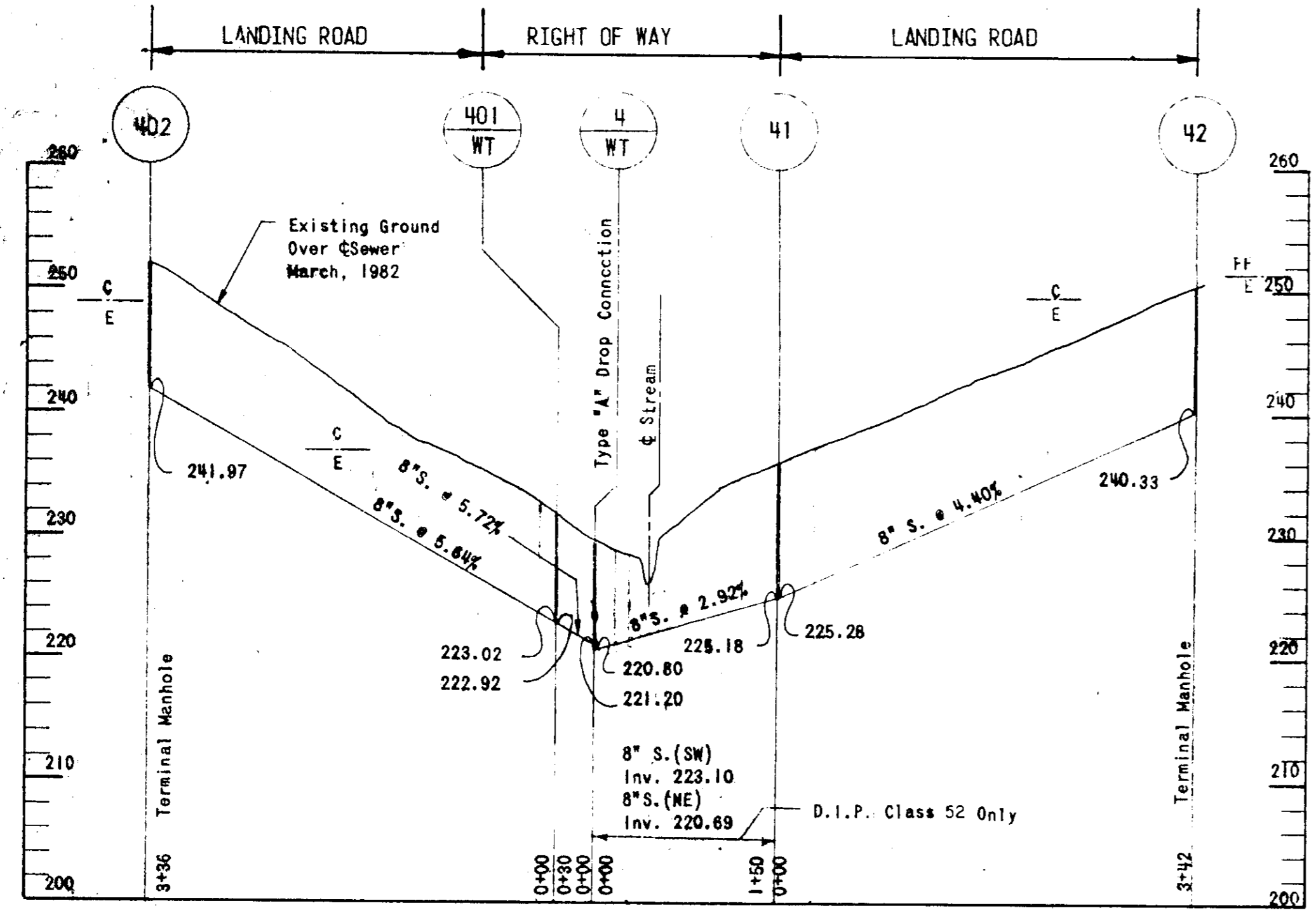
SDP 3 OF 5

DRAWING NO. 5
OF 14

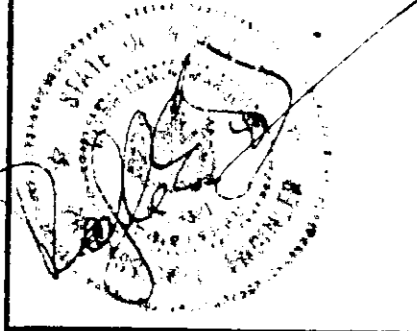
SCALE AS SHOWN



NOTE:
Set Frames And Covers Of Watertight Manholes 2, 3, 4, 401, 5, 5A, 6, 7 And 101 Flush With Existing Grade.



PROFILES
Scale: Horiz. 1" = 100'
Vert. 1" = 10'



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS: *[Signature]* DATE: 10-18-84
CHIEF, BUREAU OF ENGINEERING: *[Signature]* DATE: 10-17-84
CHIEF, BUREAU OF UTILITIES: *[Signature]* DATE: 10-17-84

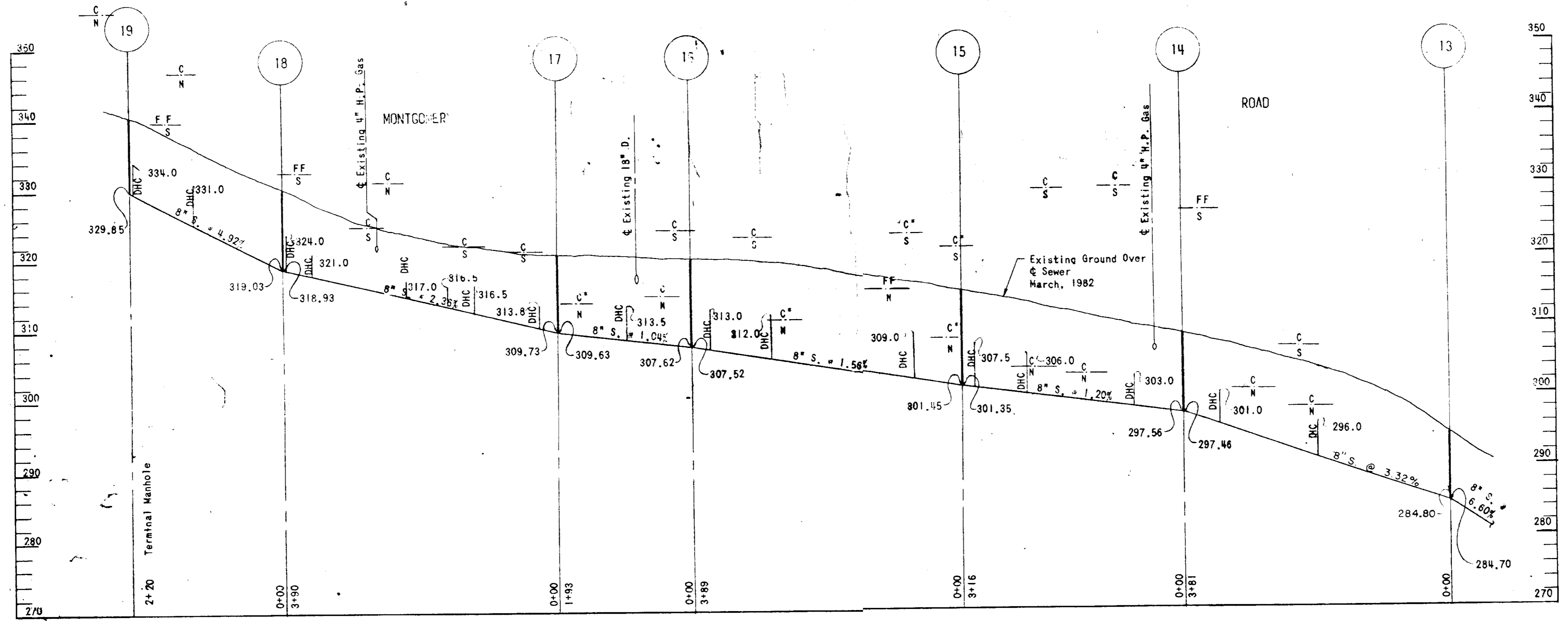
RUMMEL, KLEPPER & KAHL
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

CONTRACT NO. 10-1043
CAPITAL PROJECT NO. S-6089-2 & S-6127

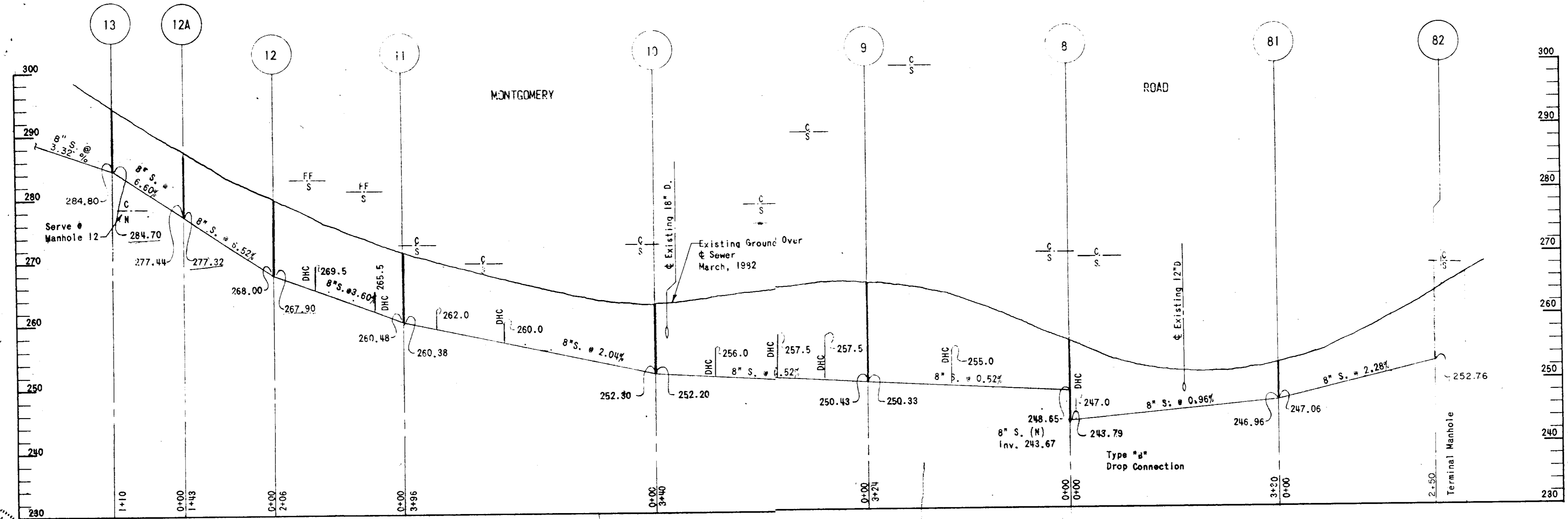
PROFILES OF SEWER AND FORCE MAIN

ROCKBURN BRANCH MONTGOMERY ROAD SECTION
ELECTION DISTRICT 1
HOWARD COUNTY, MARYLAND

DRAWING NO. 6 OF 14 SCALE AS SHOWN



*Cellar Inaccessible. Cellar Elevation Shown Assumed 8.0 Feet Below First Floor Elevation.



PROFILES
 Horiz. 1" = 100'
 Vert. 1" = 10'



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Director of Public Works DATE 10-18-84
 Chief, Bureau of Engineering DATE
 Chief, Bureau of Utilities DATE 10-17-84
 Chief, Utility Division DATE

RUMMEL, KLEPPER & KAHL
 CONSULTING ENGINEERS
 BALTIMORE, MARYLAND

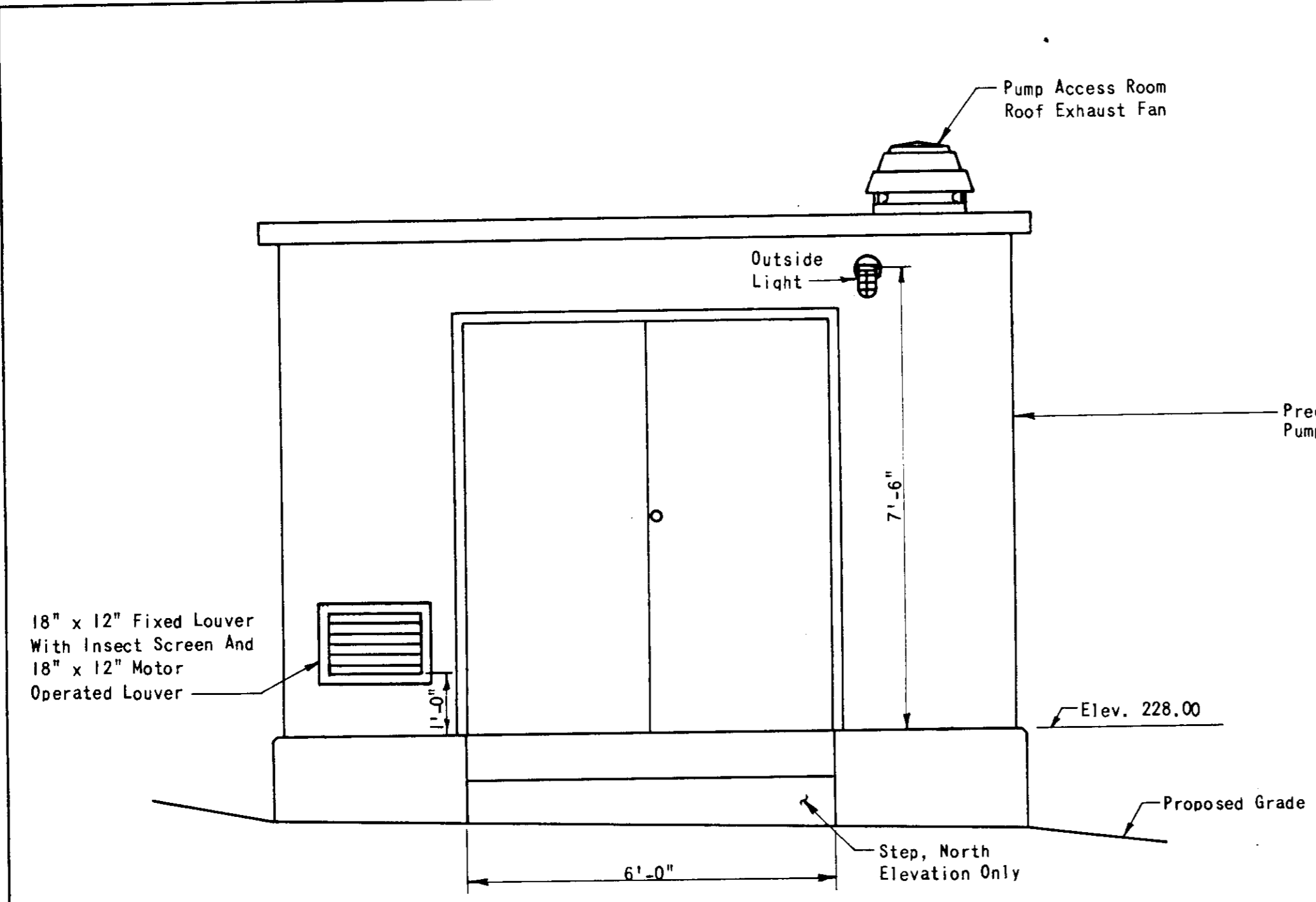
CONTRACT NO. 10-1043
 CAPITAL PROJECT NO. S-6089-2 & S-6127

PROFILES OF SEWER MAINS

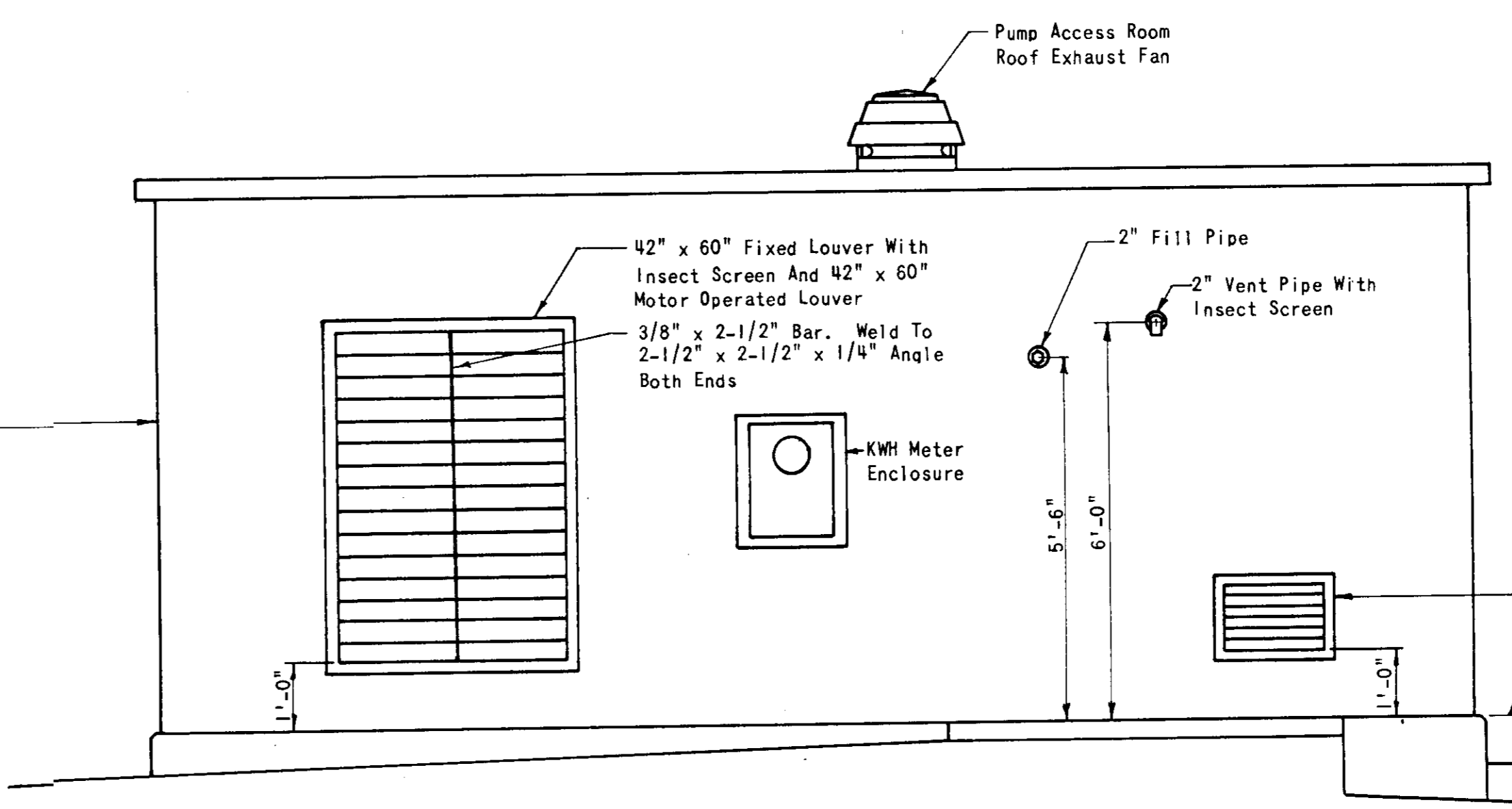
ROCKBURN BRANCH MONTGOMERY ROAD SECTION
 ELECTION DISTRICT 1
 HOWARD COUNTY, MARYLAND

DRAWING NO. 7 OF 14
 SCALE AS SHOWN

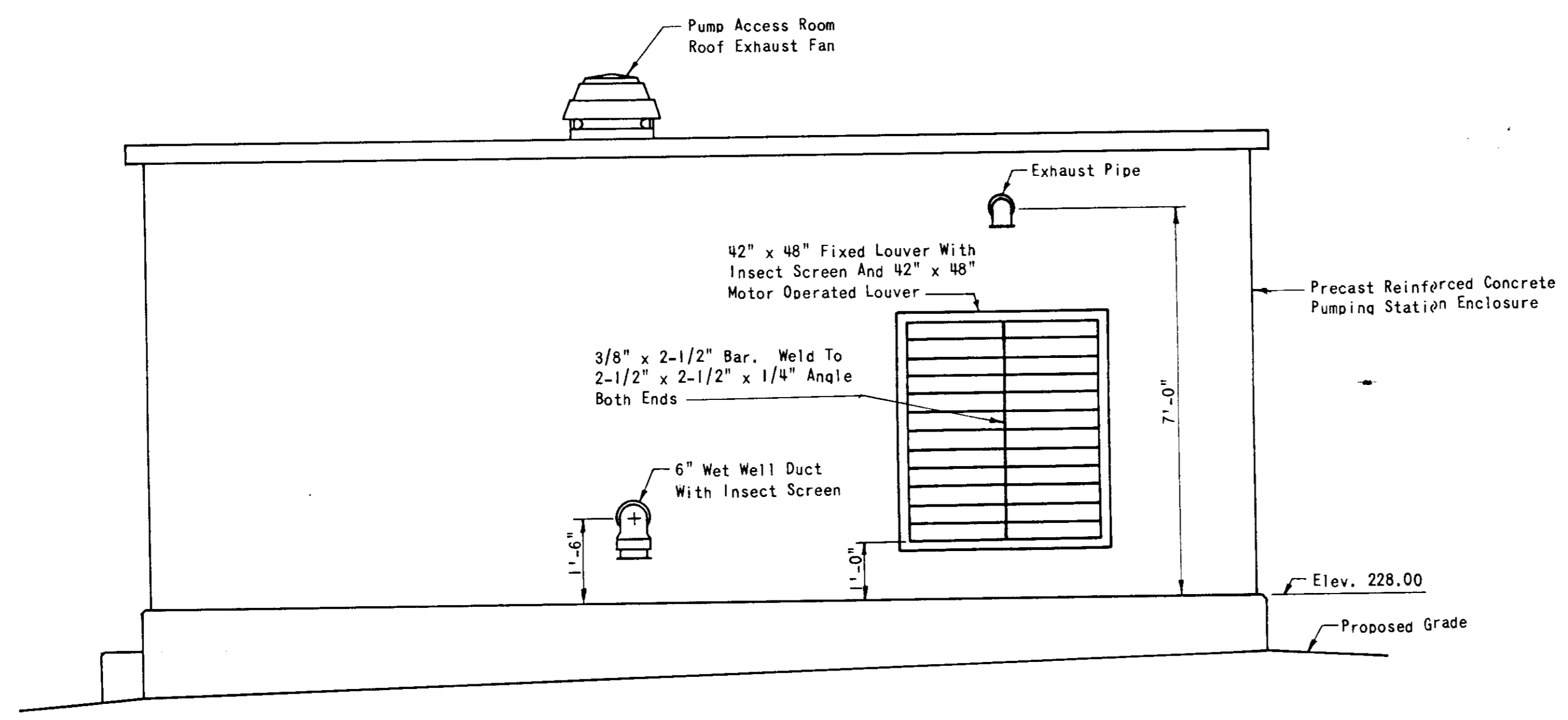
ROCKBURN BRANCH
 COLLECTION SYSTEM
 MONTGOMERY ROAD SECTION
 PROJECT NOS. S-6089-2 & S-6127
 CONTRACT NO. 10-1043



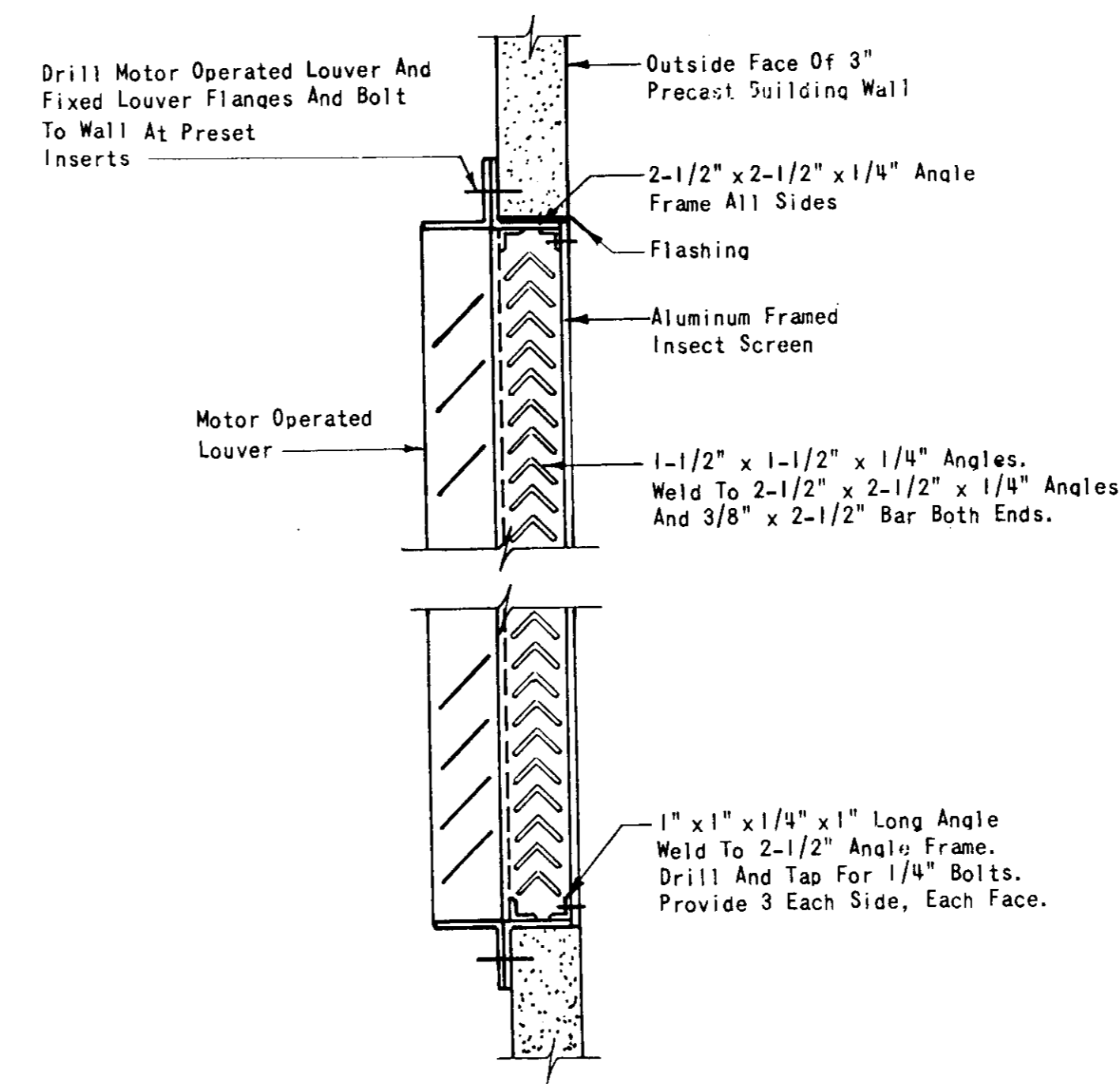
NORTH ELEVATION
(South Elevation Similar)
Scale: 1/2" = 1'-0"



EAST ELEVATION
Scale: 1/2" = 1'-0"



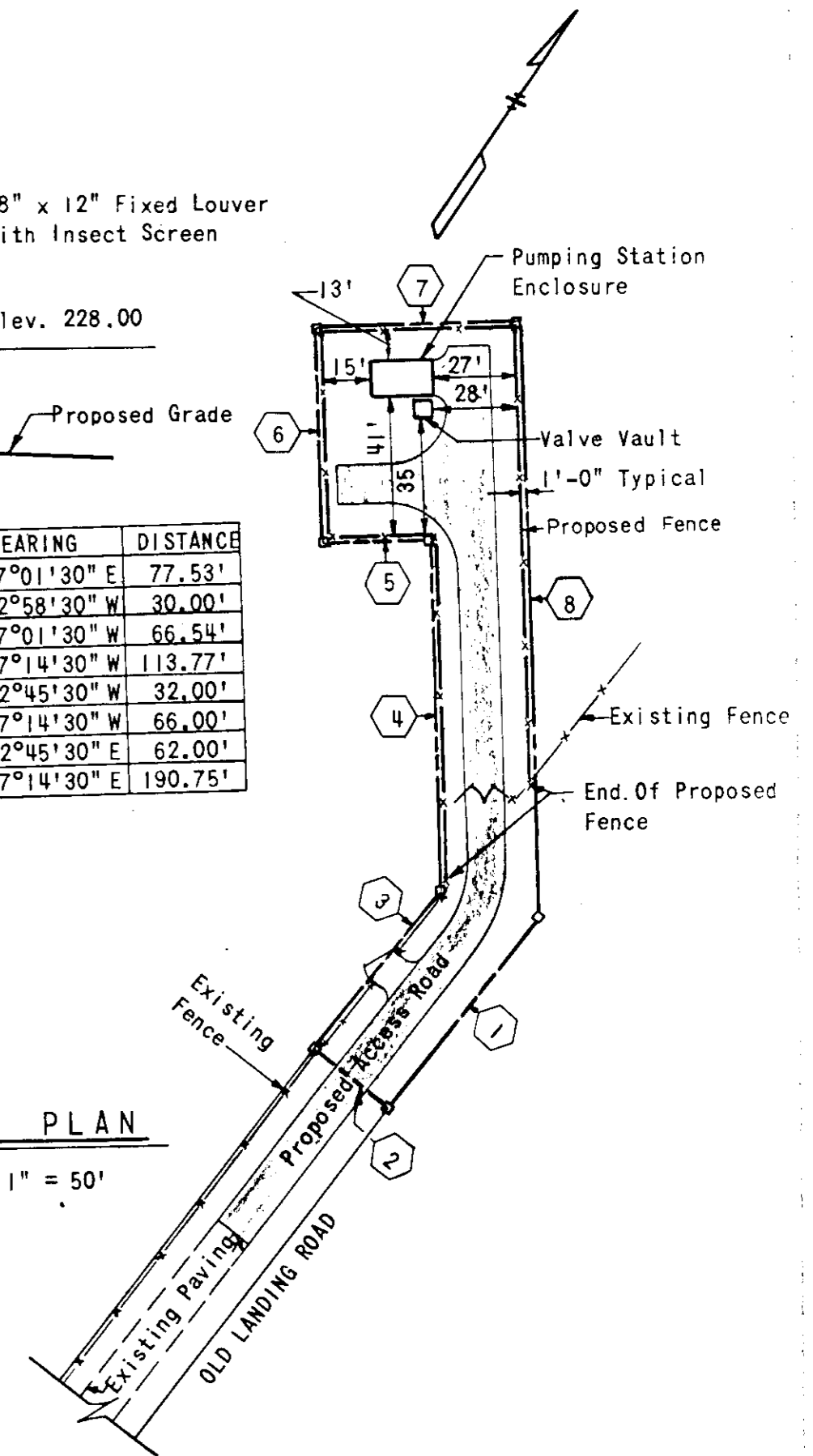
WEST ELEVATION
Scale: 1/2" = 1'-0"



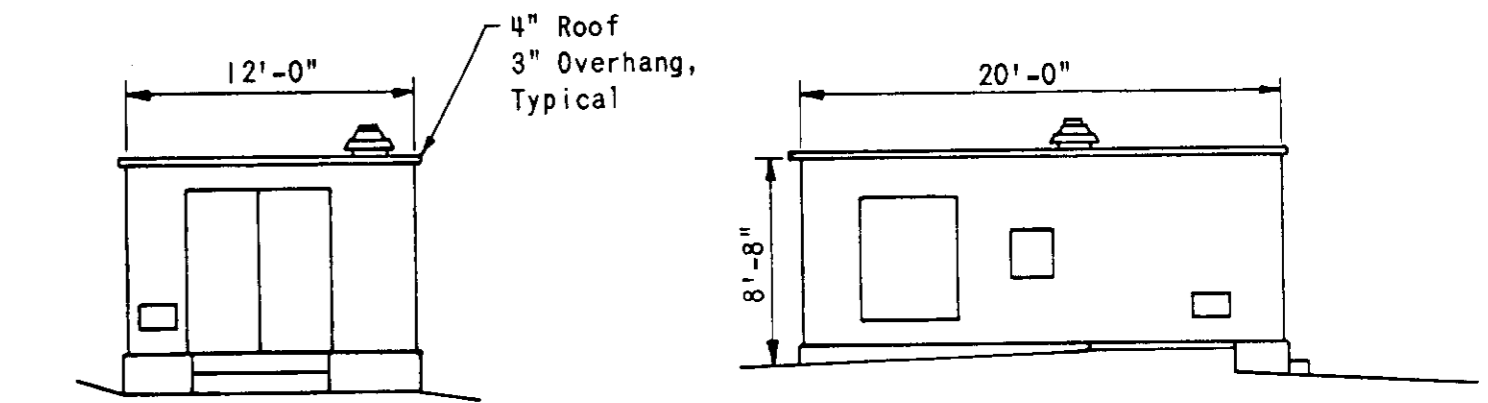
DETAIL - LOUVER
No Scale

SITE ANALYSIS
Area Of Parcel: 0.20 Ac. Or 8,535 Sq. Ft.
Present Zoning: R-20
Floor Space Of Building: 221 Sq. Ft.
Employees On Site: 0
No. Of Parking Spaces On Site: 0

LINE	BEARING	DISTANCE
1	S 17°01'30" E	77.53'
2	S 72°58'30" W	30.00'
3	N 17°01'30" W	66.54'
4	N 57°14'30" W	113.77'
5	S 32°45'30" W	32.00'
6	N 57°14'30" W	66.00'
7	N 32°45'30" E	62.00'
8	S 57°14'30" E	190.75'



PLOT PLAN
Scale: 1" = 50'



TYPICAL BUILDING ELEVATION
Scale: 1/8" = 1'-0"

Note: Above Typical Building Elevation, Plot Plan, And Site Analysis For Howard County Office Of Planning And Zoning Use Only.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Director of Public Works: *W. F. N. Smith* 10-18-84
Chief, Bureau of Engineering: *W. E. R. Dwyer* 10-24-84
Chief, Bureau of Utilities: *Robert M. Brinson* 10-17-84
Chief, Utility Division: *Donald E. Brown* 10-10-84

APPROVED: Howard County Office Of Planning And Zoning
Planning Director: *Thomas G. Harris* 10-24-84
Chief, Division Of Land Dev. & Zoning Admin.: *Eric J. Turner* 10-19-84

APPROVED: For Public Water And Public Sewerage Systems
Howard County Health Department
County Health Officer: *James P. ...* 10-22-84

APPROVED: For Public Water, Public Sewerage And Storm Drainage Systems And Roads
Howard County Department Of Public Works
Director: *...* DATE: 10-22-84
Chief, Bureau Of Engineering: *...* DATE: 10-22-84

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE: 9-7-84
...

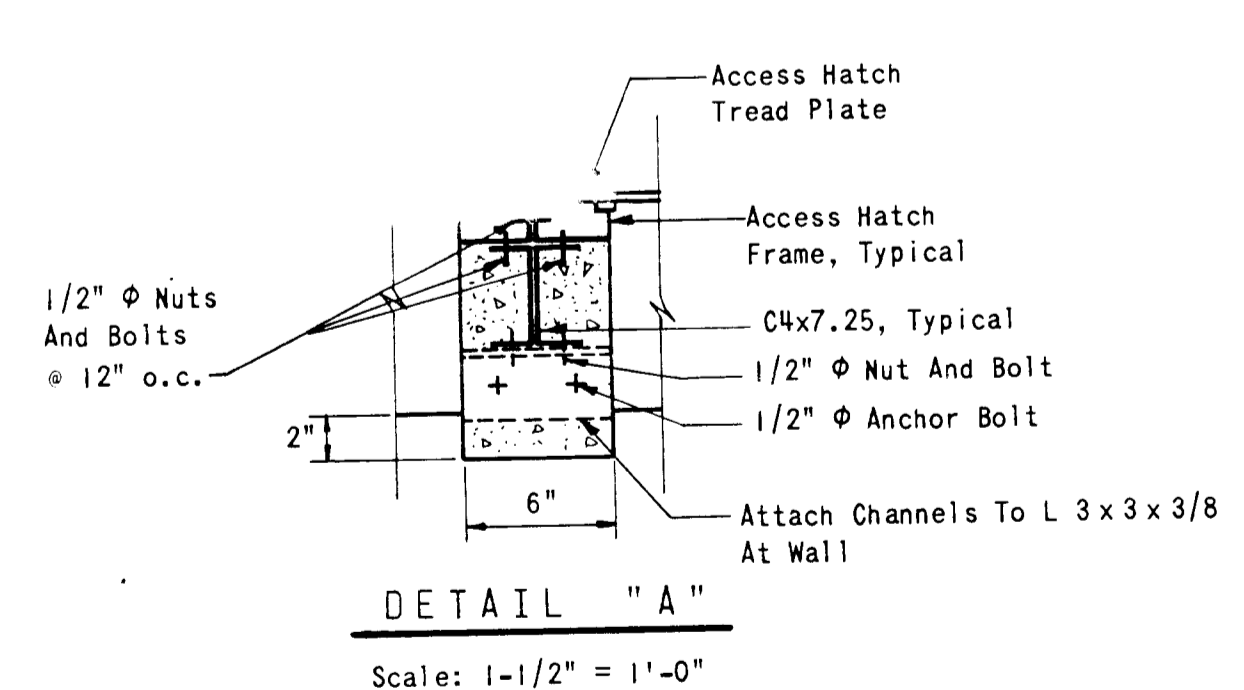
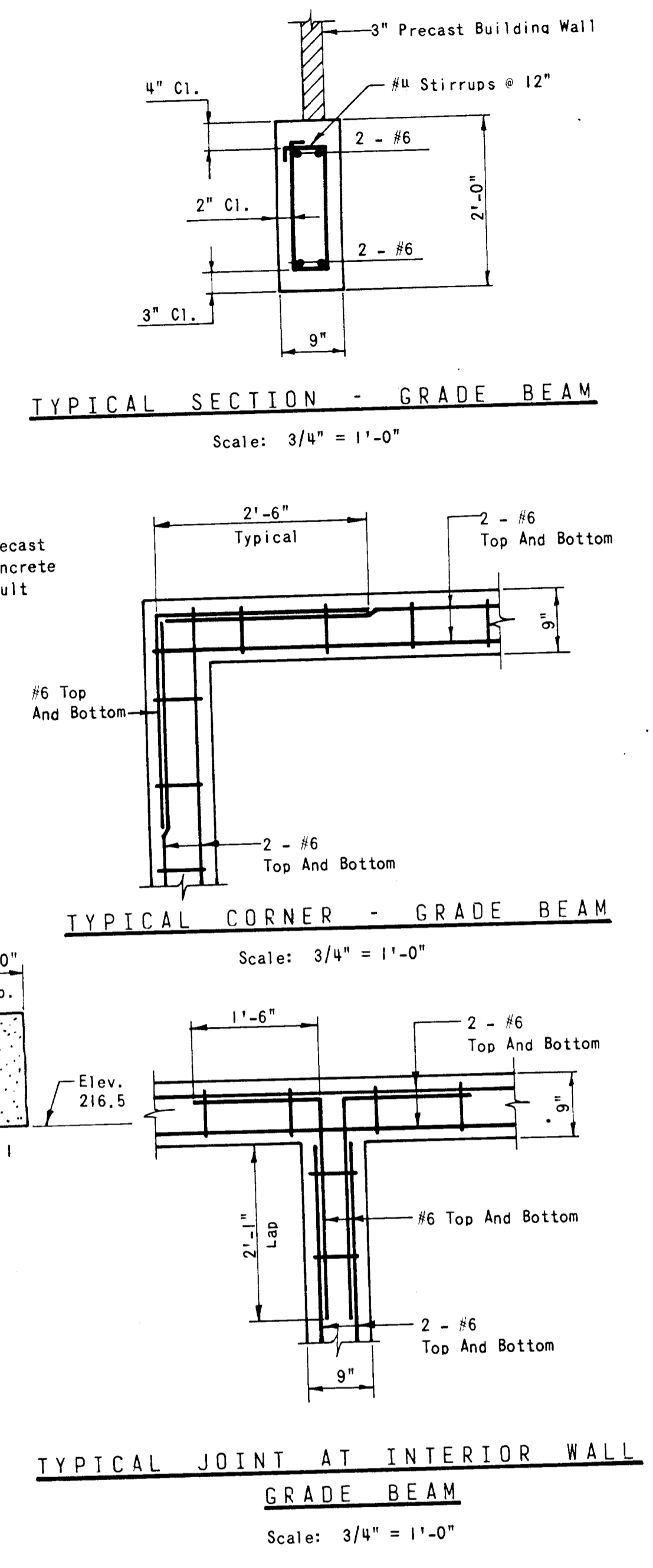
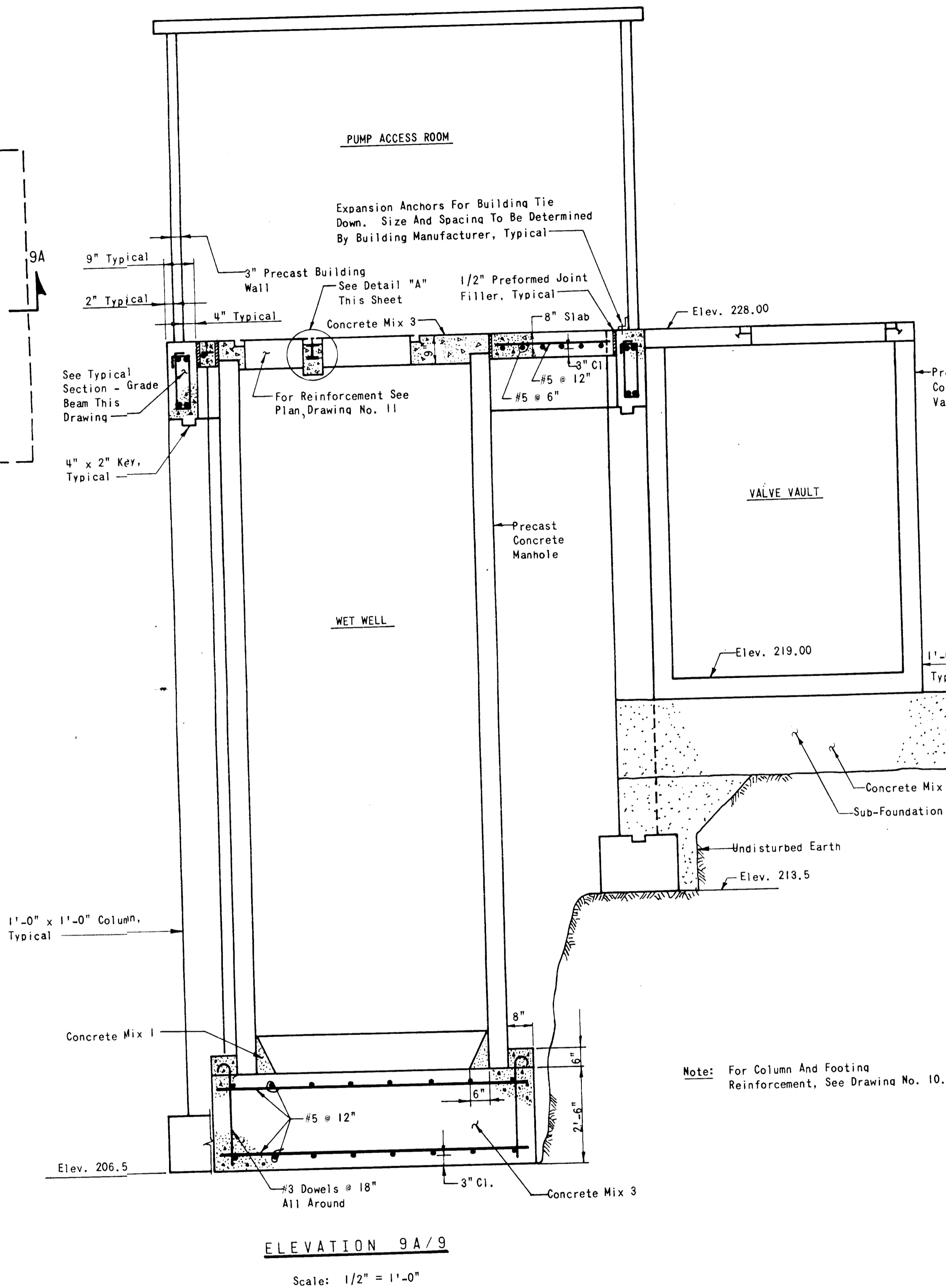
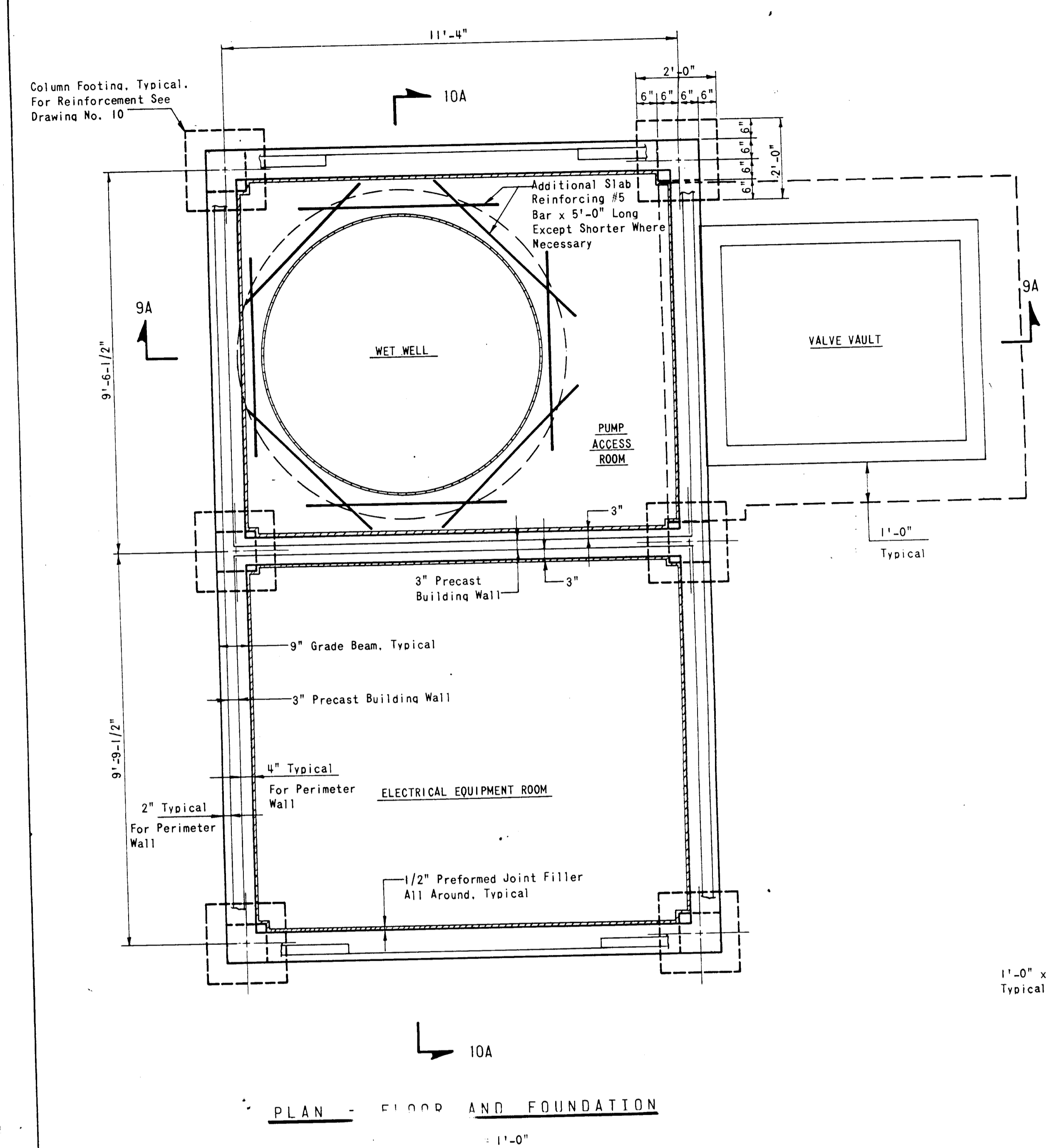
ROCKBURN BRANCH COLLECTION SYSTEM
MONTGOMERY ROAD SECTION
PROJECT NOS. S-6089-2 & S-6127
CONTRACT NO. 10-1043

CONTRACT NO. 10-1043
CAPITAL PROJECT NO. S-6089-2 & S-6127

PUMPING STATION ARCHITECTURAL

ROCKBURN BRANCH MONTGOMERY ROAD SECTION
ELECTION DISTRICT 1
HOWARD COUNTY, MARYLAND

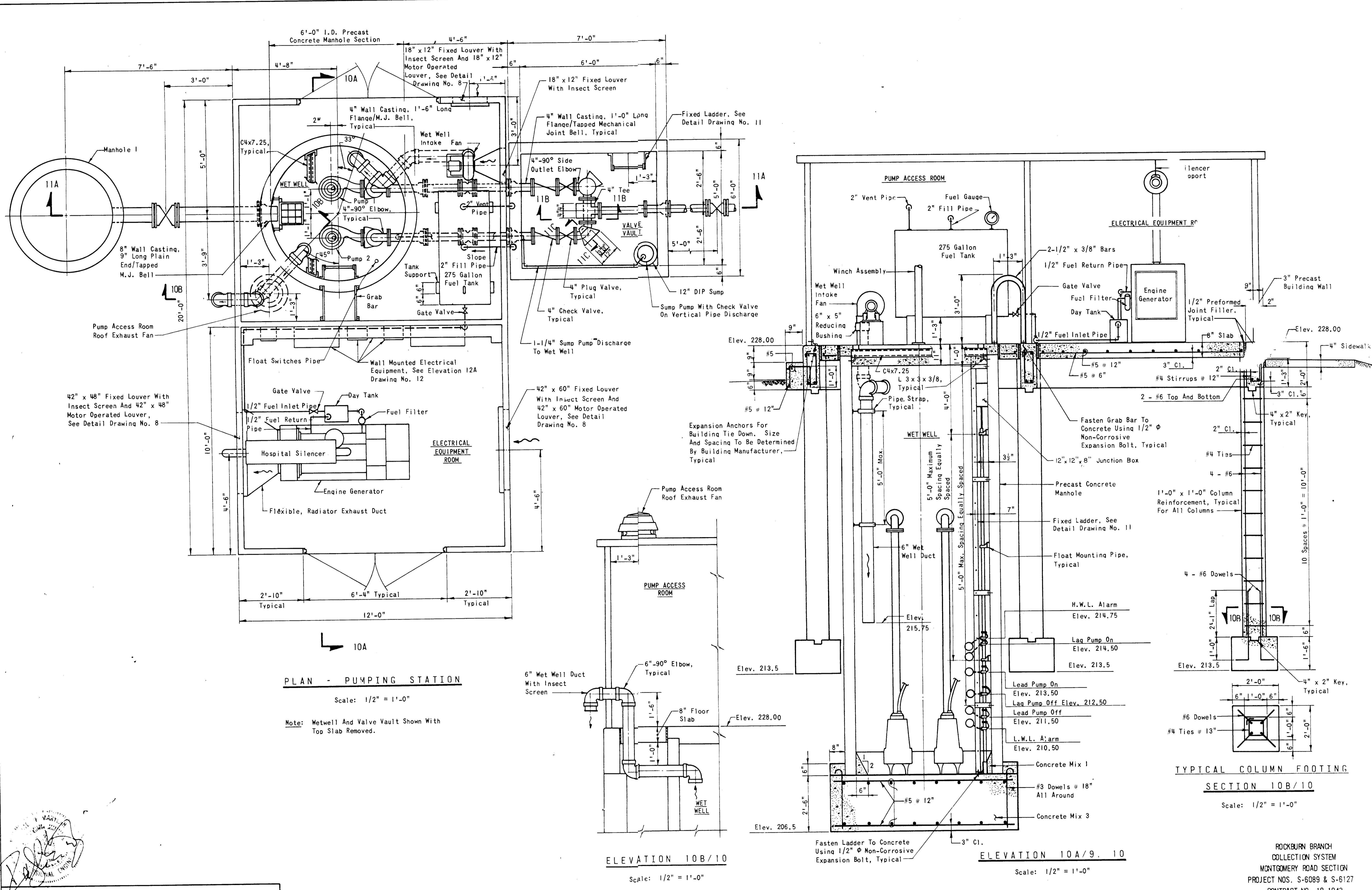
SDP 4 OF 5
DRAWING NO. 8 OF 14
SCALE AS SHOWN



Note: For Column And Footing Reinforcement, See Drawing No. 10.

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DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE: 10-17-84 CHIEF, BUREAU OF UTILITIES		RUMMEL, KLEPPFER & KAHL CONSULTING ENGINEERS BALTIMORE, MARYLAND DATE: 10-10-84 CHIEF, UTILITY DIVISION		CONTRACT NO. 10-1043 CAPITAL PROJECT NO. S-6089-2 & S-6127	PUMPING STATION STRUCTURAL PLAN - ELEVATION - SECTION	ROCKBURN BRANCH COLLECTION SYSTEM MONTGOMERY ROAD SECTION HOWARD COUNTY, MARYLAND	DRAWING NO. 9 OF 14	SCALE AS SHOWN
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PLAN - PUMPING STATION

Scale: 1/2" = 1'-0"

Note: Wetwell And Valve Vault Shown With Top Slab Removed.

ELEVATION 10B/10

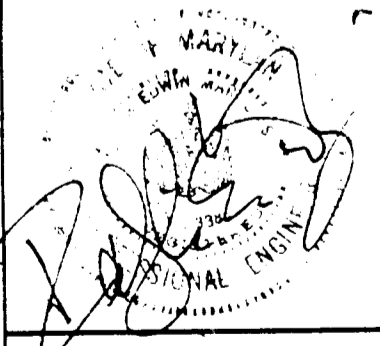
Scale: 1/2" = 1'-0"

ELEVATION 10A/9.10

Scale: 1/2" = 1'-0"

TYPICAL COLUMN FOOTING SECTION 10B/10

Scale: 1/2" = 1'-0"



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John F. Neuman 10-12-34
DIRECTOR OF PUBLIC WORKS DATE

William E. Ridd 10-10-34
CHIEF, BUREAU OF ENGINEERING DATE

Robert H. Beaman 10-17-34
CHIEF, BUREAU OF UTILITIES DATE

William E. Ridd 10-10-34
CHIEF, UTILITY DIVISION DATE

RUMMEL, KLEPPER & KAHL
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

CONTRACT NO. 10-1043
CAPITAL PROJECT NO. S-6089-2 & S-6127

PUMPING STATION
MECHANICAL - STRUCTURAL
PLAN - ELEVATION - SECTION

ROCKBURN BRANCH MONTGOMERY ROAD SECTION
ELECTION DISTRICT 1
HOWARD COUNTY, MARYLAND

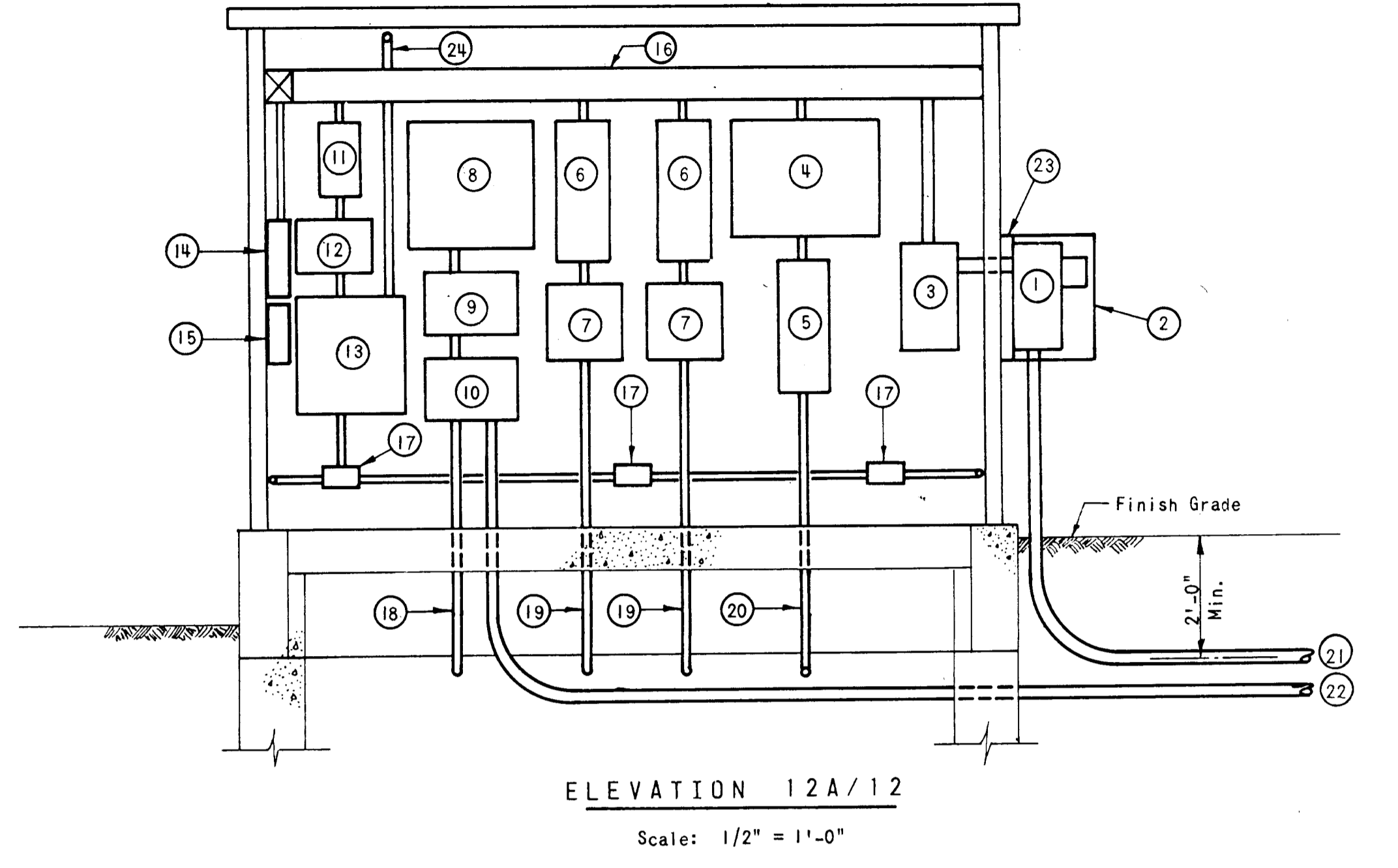
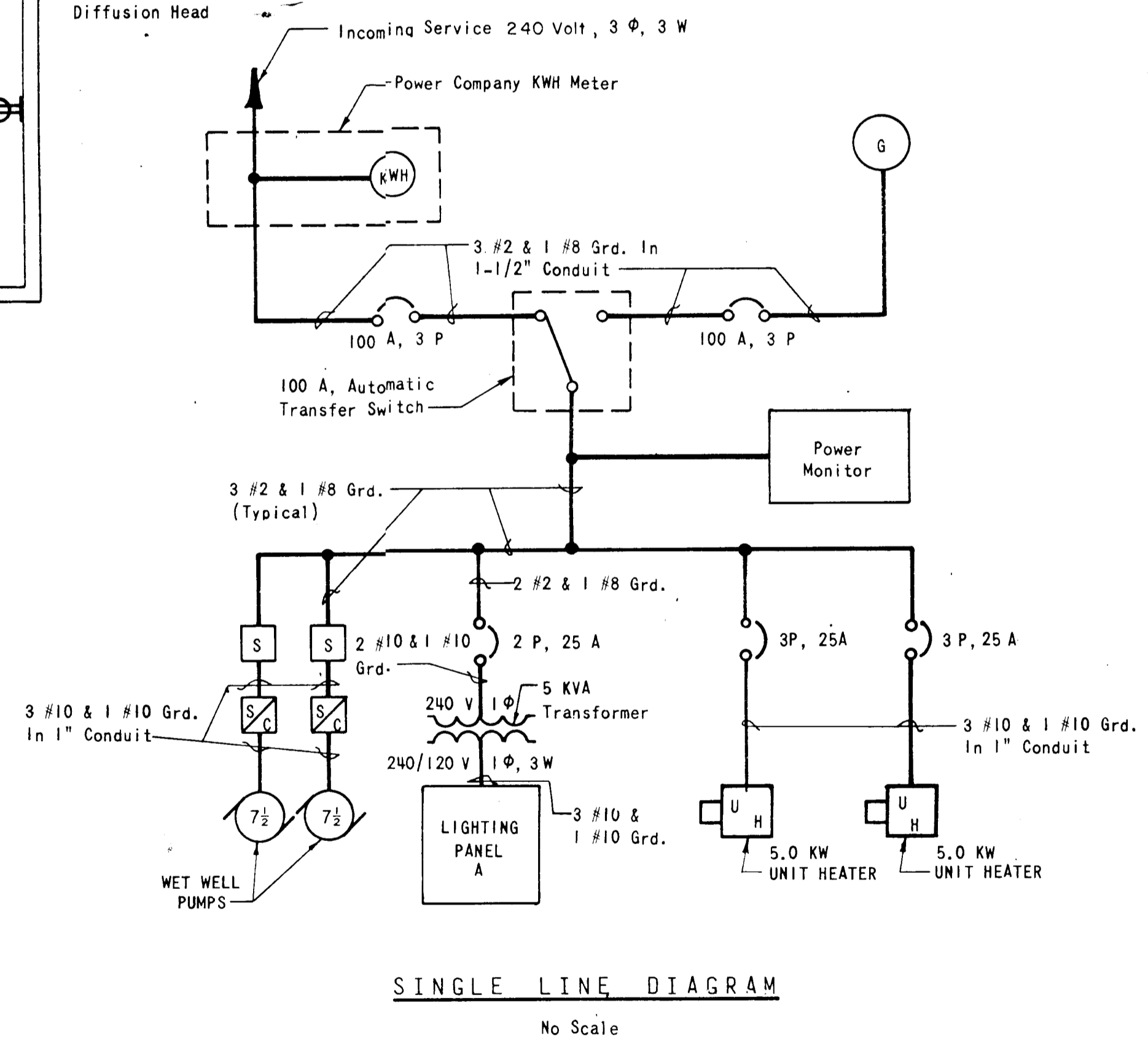
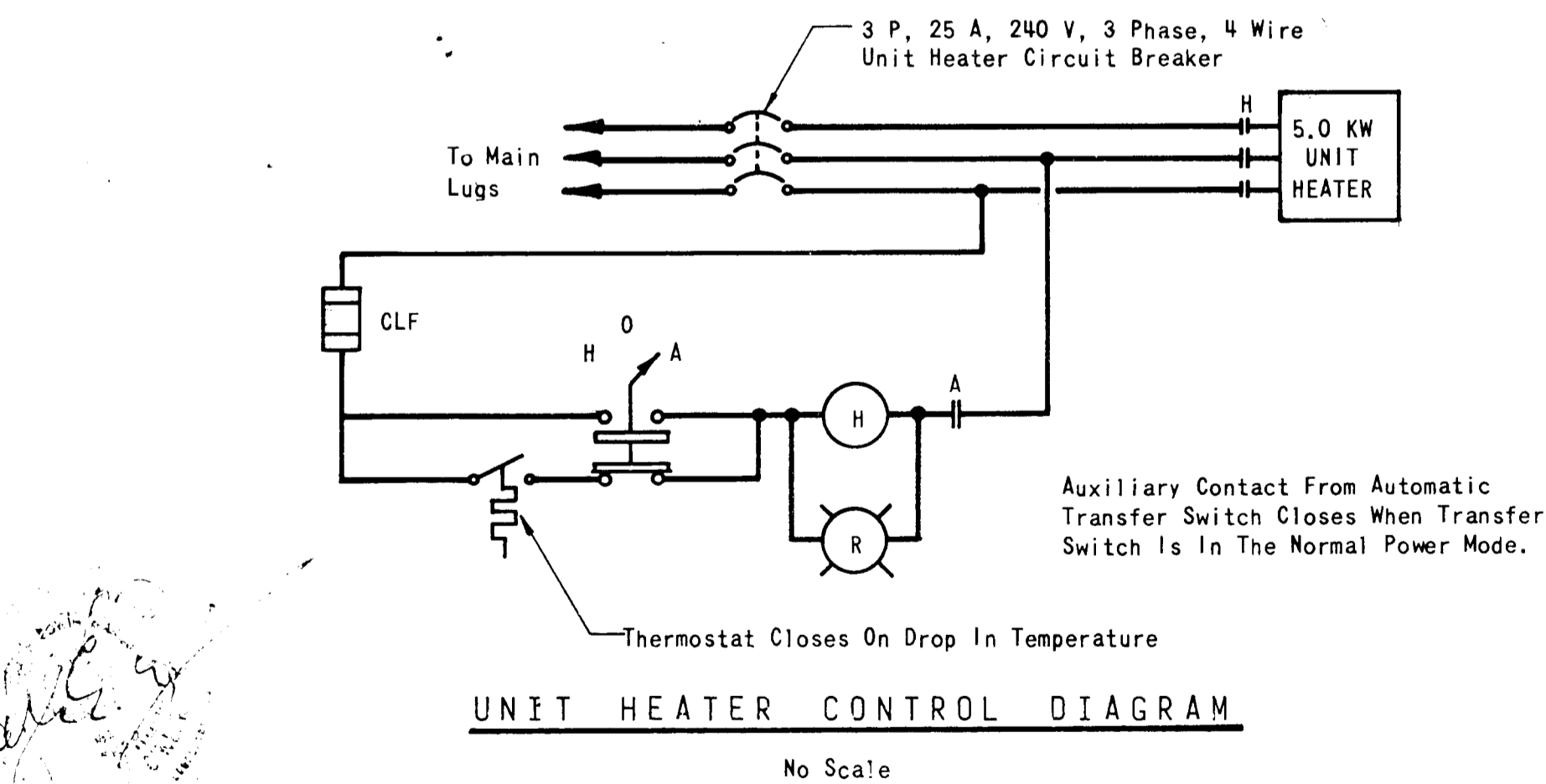
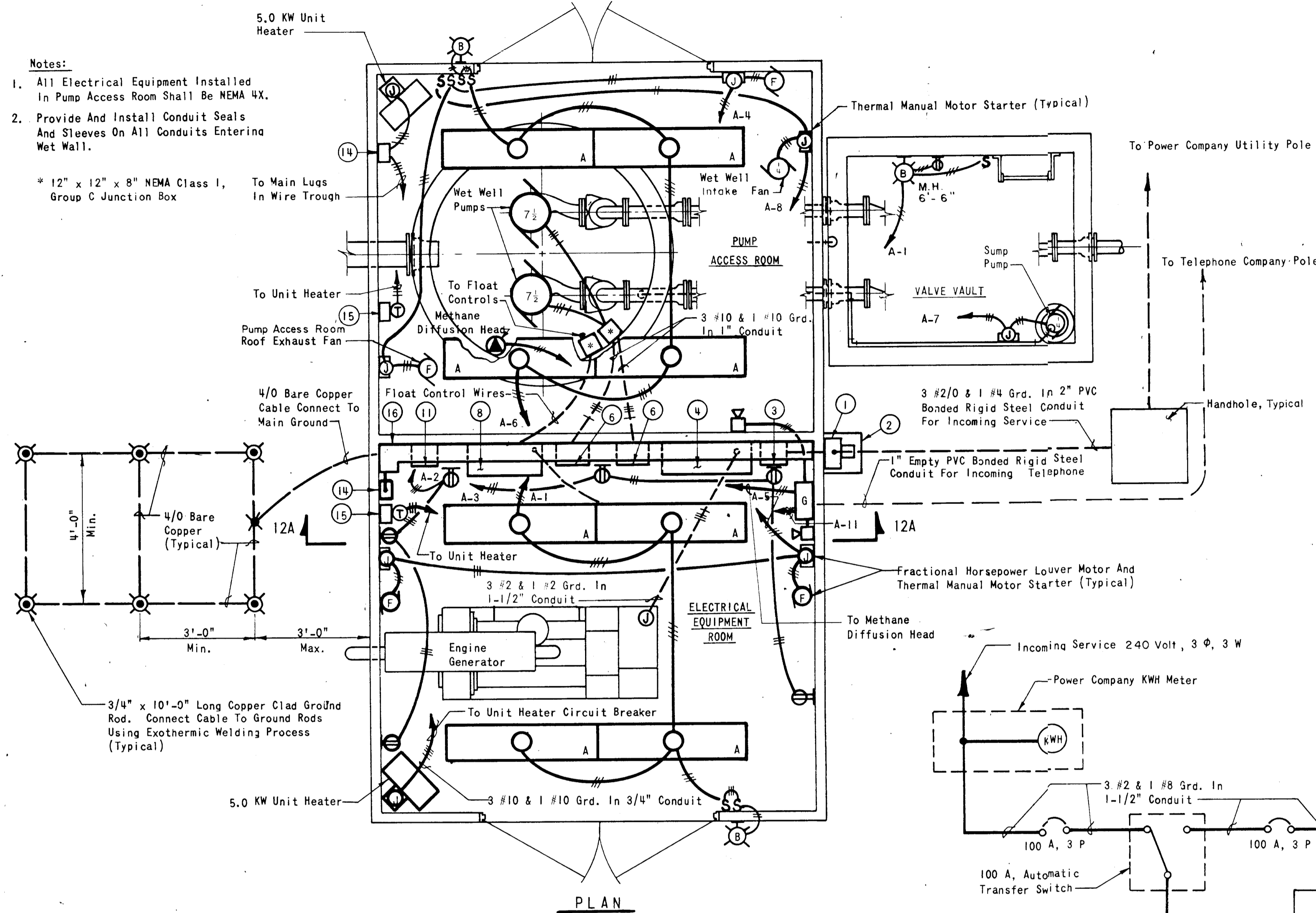
DRAWING NO. 10
OF 14

SCALE AS SHOWN

Notes:

- All Electrical Equipment Installed In Pump Access Room Shall Be NEMA 4X.
- Provide And Install Conduit Seals And Sleeves On All Conduits Entering Wet Wall.

* 12" x 12" x 8" NEMA Class I, Group C Junction Box



EQUIPMENT KEY

- | | |
|---|--|
| 1 Power Company Kilo-watt Hour Meter (KWH Meter) | 13 240/120 Volt, 1 Phase, 3 Wire Lighting Panel "A" |
| 2 KWH Meter Enclosure, Minimum 12 Gauge Galvanized Steel 24" High x 20" Wide x 15" Deep. Provide Hasp For Locking | 14 240/120 Volt, 3 Phase, 3 Pole, 25 Amp Unit Heater Circuit Breaker |
| 3 240 Volt, 3 Phase, 3 Pole, 100 Amp Main Breaker | 15 Unit Heater Controls In 12" x 12" x 6" Enclosure |
| 4 100 Amp Automatic Transfer Switch | 16 6" x 6" Wire Way |
| 5 240 Volt, 3 Phase, 3 Pole, 100 Amp Generator Breaker | 17 120 Volt Duplex Receptacles |
| 6 Combination Starter | 18 Control Wire To Float Controls In 1" Conduit |
| 7 Soft Start Controller | 19 3 #10 & 1 #10 Ground In 1" Conduit From Starters To Wet Well Pumps |
| 8 Pump Control Panel | 20 3 #2 & 1 #8 Ground In 1-1/2" Conduit From Generator Breaker To Engine Generator Control Panel |
| 9 Power Monitor | 21 3 #2/0 & 1 #4 Ground In 2" PVC Bonded Rigid Steel Conduit For Incoming Service |
| 10 Telemetry Equipment | 22 1" Empty PVC Bonded Rigid Steel Conduit For Incoming Telephone Service |
| 11 240/120 Volt, 3 Phase, 2 Pole, 25 Amp Transformer Breaker | 23 1-1/2" x 1-1/2" Structural Steel Channel, PVC Coated |
| 12 240/120 Volt, 1 Phase, 5 KVA Transformer | 24 Branch Lighting Circuits In 1" Conduit |

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE 10-17-34
CHIEF, BUREAU OF UTILITIES

CHIEF, BUREAU OF ENGINEERING DATE 10-17-34
CHIEF, UTILITY DIVISION

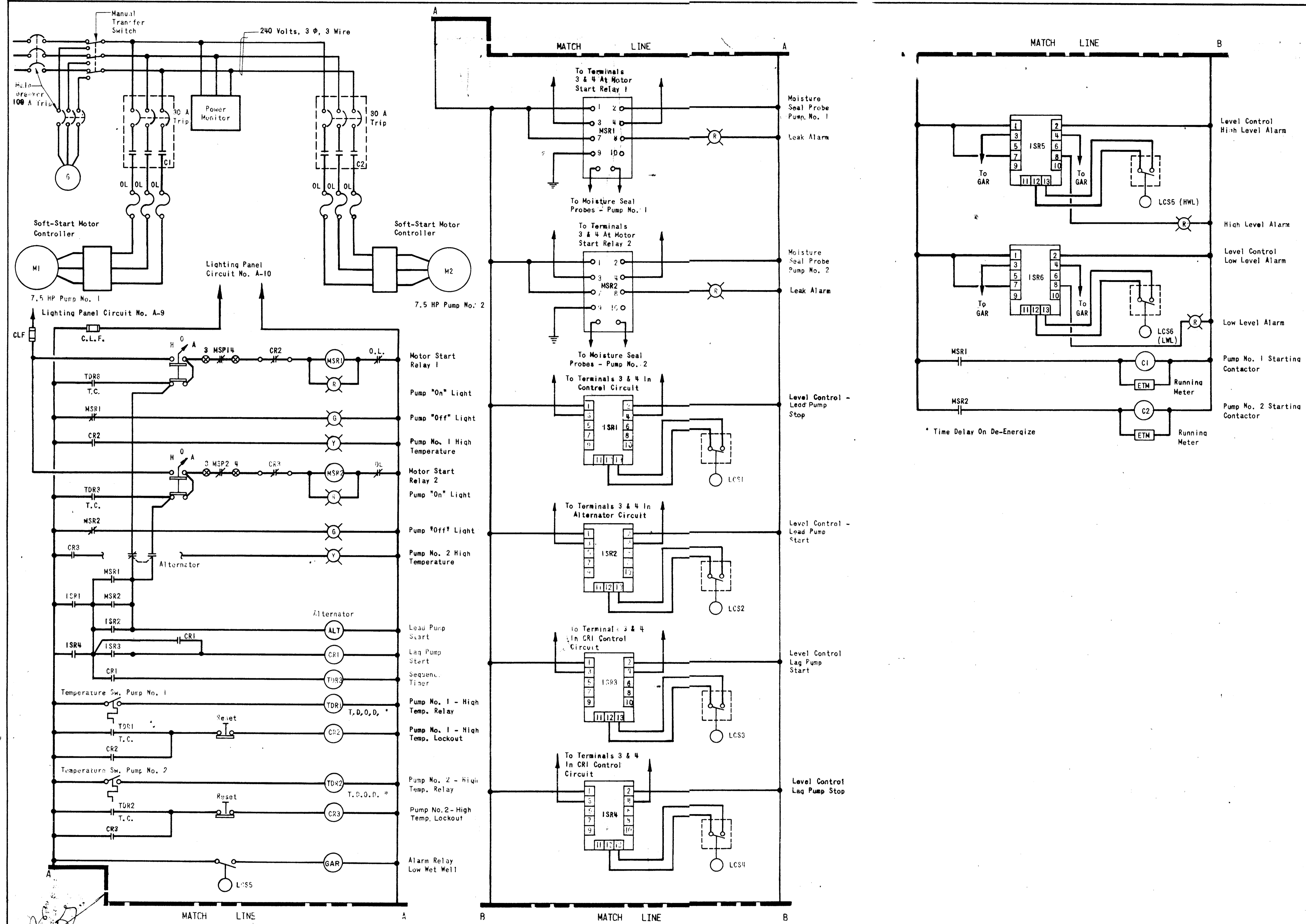
RUMMEL, KLEPPER & KAHL
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

CONTRACT NO. 10-1043
CAPITAL PROJECT NO. S-6089-2 & S-6127

PUMPING STATION
ELECTRICAL
PLAN - SECTION - DIAGRAMS

ROCKBURN BRANCH MONTGOMERY ROAD SECTION
ELECTION DISTRICT 1
HOWARD COUNTY, MARYLAND

DRAWING NO. 12	SCALE AS SHOWN
OF 14	



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE
 CHIEF, BUREAU OF ENGINEERING DATE

CHIEF, BUREAU OF UTILITIES DATE
 CHIEF, UTILITY DIVISION DATE

PUMPING STATION CONTROL DIAGRAM
 No Scale

RUMMEL, KLEPPER & KAHL
 CONSULTING ENGINEERS
 BALTIMORE, MARYLAND

CONTRACT NO. 10-1043
 CAPITAL PROJECT NO. S-6089-2 & S-6127

PUMPING STATION

ROCKBURN BRANCH MONTGOMERY ROAD SECTION
 ELECTION DISTRICT J
 HOWARD COUNTY, MARYLAND

ROCKBURN BRANCH
 COLLECTION SYSTEM
 MONTGOMERY ROAD SECTION
 PROJECT NOS. S-6089-2 & S-6127
 CONTRACT NO. 10-1043

DRAWING NO. 13 OF 14
 SCALE AS SHOWN