

DEPARTMENT OF PUBLIC WORKS

EDGAR ROAD WATER SUCTION & DISCHARGE MAINS

CONTRACT NO. 44-1918

CAPITAL PROJECT NO. W-8129

GENERAL NOTES

PART I

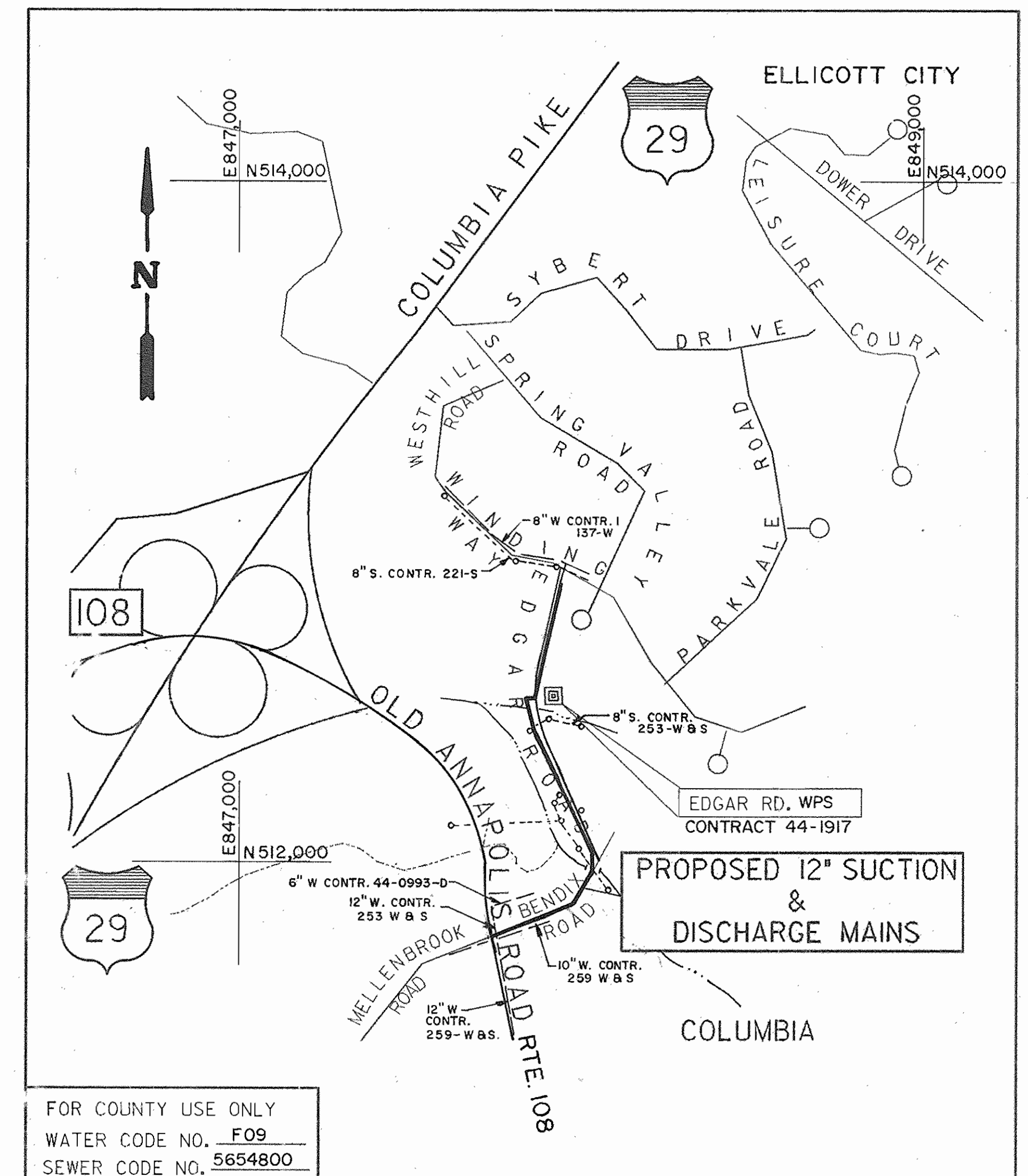
1. APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
2. ALL 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.
5. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING OF ALL POLES AS REQUIRED.
6. 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.
7. 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 AND IN THE SPECIFICATIONS (APPENDIX). 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.
8. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES 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 850-4620
BALTIMORE GAS & ELECTRIC CO. UNDER GROUND DAMAGE CONTROL - 859-9004
BALTIMORE GAS & ELECTRIC CO. TROUBLE SHOOTING - 298-9001
MISS UTILITY - 1-800-257-7777
COLONIAL PIPELINE CO. - 795-1390
BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 313-4900
9. 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.
10. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN PRICES BID FOR CONSTRUCTION.

PART II - WATER

1. ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
2. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
5. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1003 OF THE STANDARD SPECIFICATIONS.
6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

INDEX OF DRAWINGS	
SHEET NO.	TITLE
1	TITLE
2	SEDIMENT & EROSION CONTROL PLAN
3	SEDIMENT & EROSION CONTROL DETAILS
4	PLAN & PROFILE 12" SUCTION & DISCHARGE WATER LINES
5	12" SUCTION & DISCHARGE MAINS AT BENDIX RD. & RTE. 108
6	12" SERVICE LINE TO BENDIX CORPORATE
7	PLAN & PROFILE 12" SUCTION & DISCHARGE WATER LINES, EDGAR RD.
8	PLAN & PROFILE 12" SUCTION & DISCHARGE WATER LINES, EDGAR RD.

WATER QUANTITIES			
ITEM	ESTIMATE	AS-BUILT	MATERIAL / SUPPLIER
12" D.I.P.	4,385	4,544	GRIFFIN PIPE PRODUCTS CO.
FIRE HYDRANTS	7	7	KENNEDY/MUNICIPAL & CONTRACTOR SALES, INC.
METER VAULTS	1	1	GRIFFIN PIPE PRODUCTS CO.
12" RSG VALVES	10	9	KENNEDY/MUNICIPAL & CONTRACTOR SALES, INC.
6" STD. BLOW -	2	2	KENNEDY/MUNICIPAL & CONTRACTOR SALES, INC.
OFF VALVES			
6" F.H. VALVES	7	7	KENNEDY/MUNICIPAL & CONTRACTOR SALES, INC.



FOR COUNTY USE ONLY
WATER CODE NO. F09
SEWER CODE NO. 5654800

NUMBER OF PARCELS: N/A
DRAINAGE AREA: PATAPSCO

LOCATION MAP
SCALE: 1" = 300'

NO. OF WHC: NONE
TYPE OF BUILDING: NA

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert J. Seaman 1/25/91
DIRECTOR OF PUBLIC WORKS DATE

William E. Riden 1-17-91
CHIEF, BUREAU OF ENGINEERING DATE

Robert M. Davis 1-24-91
CHIEF, BUREAU OF UTILITIES DATE

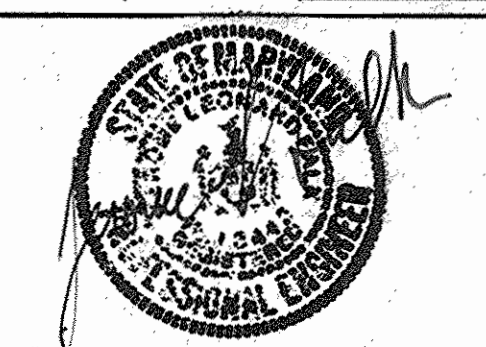
David A. Hines 1-16-91
CHIEF, UTILITY DESIGN DIVISION DATE

ib
SUCHART
HOF, INC.

Baltimore, MD
Chesapeake, VA
Frostburg, MD
Lebanon, PA
Levittown, PA

Worthington, TN
Mt. Laurel, NJ
New Orleans, LA
Williamsburg, VA
York, PA

Engineers, Architects, and Planners



DES: J. FALK
DRN: A.G.S.
CHK:
DATE: 9/25/90

BY: NO. REVISION DATE

TITLE

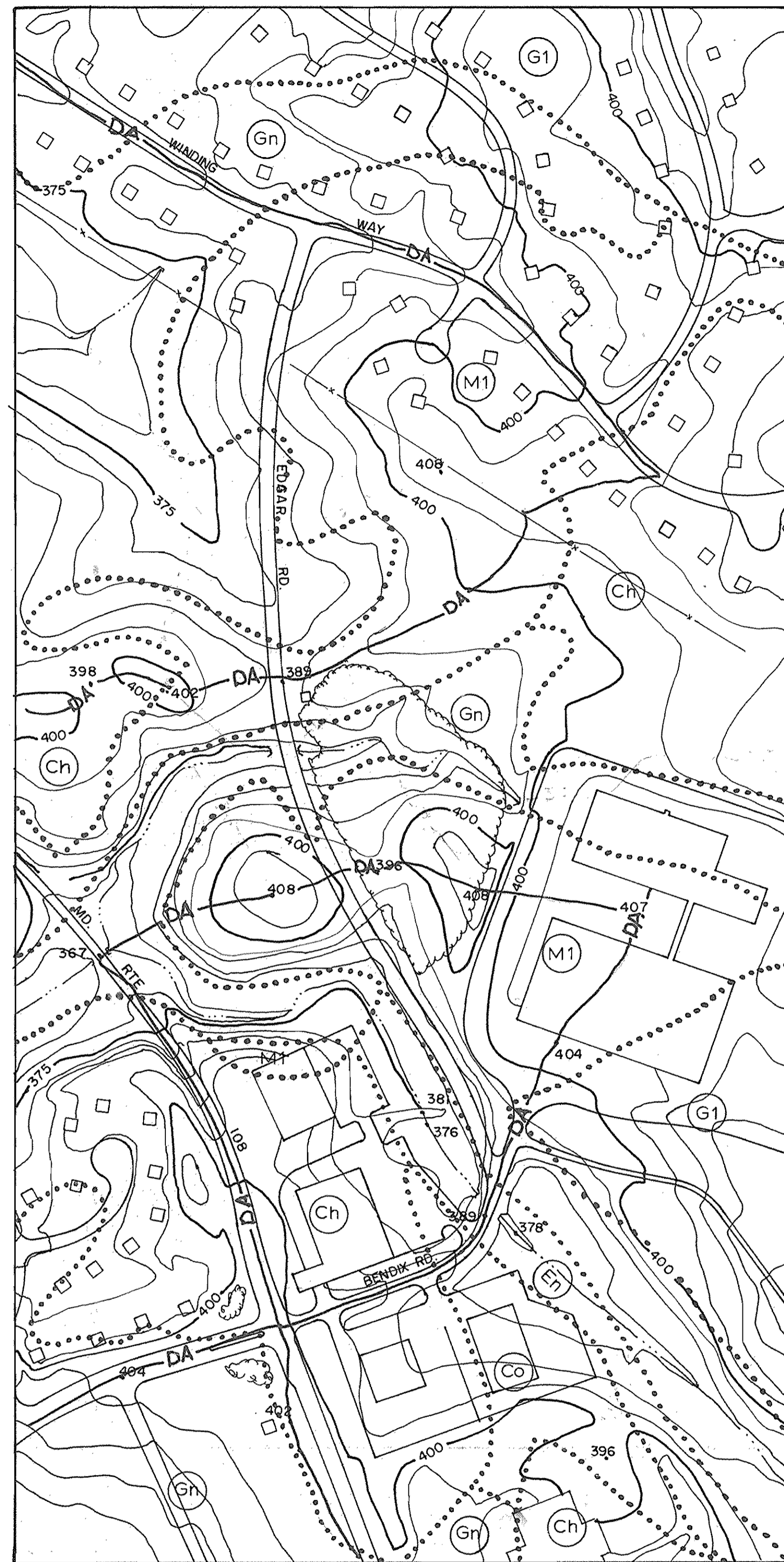
600' SCALE MAP NO. 30 BLOCK NO. 10 & 11

EDGAR ROAD WATER
SUCTION & DISCHARGE MAINS
CONTRACT NO. 44-1918
CAPITAL PROJECT NO. W-8129
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 1 OF 8

AS-BUILT



DRAINAGE & SOIL PLAN
SCALE: 1" = 200'

DRAINAGE AREA = APPROX. 52000 S.F.

LEGEND

..... DELINEATES SOIL TYPES

ⓁⓁ SOIL MARK

SOILS TABLE

ABBREVIATION	NAME	HYDROLOGIC SOIL GROUP
Ch	CHESTER SILT LOAM	B
Co	CODORUS SILT LOAM	C
En	EL SINBORO LOAM	B
G1	GLENELG LOAM	B
Gn	GLENVILLE SILT LOAM	C
M1	MANOR LOAM	B

SEDIMENT AND EROSION CONTROL

SEQUENCE OF CONSTRUCT

- UPON OBTAINING A PERMIT AND AN APPROVED SET OF THE SEDIMENT CONTROL PLANS, NOTIFY HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS (992-2437) A MINIMUM OF 24 HOURS PRIOR TO COMMENCING WORK.
- CONSTRUCT THE EDGAR ROAD SUCTION AND DISCHARGE MAINS AS SHOWN ON THE CONTRACT DRAWINGS AND AS SPECIFIED. THE CONTRACTOR IS LIMITED TO THE AMOUNT OF EXCAVATION, PIPE INSTALLATION, BACKFILL, COMPACTION AND STABILIZATION (OR ROAD REPAIR) WHICH CAN BE ACCOMPLISHED DURING ONE WORKING DAY. DURING CONSTRUCTION, THE EXCAVATED MATERIAL IS TO BE PILED ON THE UPHILL SIDE OF TRENCH. THE DOWNHILL SIDE IS TO BE PROTECTED WITH STRAW BALE DIKES. DISTURBED AREA WILL BE LIMITED TO THE AREA WITHIN THE EXISTING RIGHT-OF-WAY AND OR CONSTRUCTION STRIP. CAUTION SHOULD BE OBSERVED SO AS NOT TO DISTURB EXISTING UTILITIES WITHIN THE WORK AREA.
- DURING CONSTRUCTION, AND AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE OF THE SEDIMENT AND EROSION CONTROL STRUCTURES.
- UPON COMPLETION OF THE PIPE INSTALLATION, STABILIZATION AND OR ROAD REPAIR OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE THE SEDIMENT CONTROL MEASURES.
- ALL DISTURBED GRASSY AREAS, DUE TO REMOVAL OF THE MEASURES, SHALL BE GRADED, COMPACTED AND STABILIZED BY PERMANENT SEEDING REQUIREMENTS.

TIME

- DAY 1
- 5 MONTHS
- AS NEEDED
- 2 DAYS
- 2 DAYS.

GENERAL SYMBOLS

- T—T— TELEPHONE
- E—E— ELECTRIC
- ===== EXISTING PIPE
- PROPOSED PIPE
- N000000.00
E000000.00 COORDINATES
- ⊕ BENCH MARK
- x—x— FENCE
- ▽ CONTROL POINT
- IO--- EXISTING GRADE
- IO—— PROPOSED GRADE
- ⊕ BORING
- ⊕ UTILITY POLE
- ~~~~~ WOODED AREA, HEDGES
- ...—— STREAMS
- MH MANHOLE
- ⊕ INDICATES SECTION CUT
- ⊕ INDICATES SHT. WHERE SECT. IS CUT
- ⊕ INDICATES SHT. WHERE SECTION IS SHOWN

NOTE: FOR STANDARD HOWARD COUNTY SYMBOLS, SEE HOWARD COUNTY DESIGN MANUAL VOL. II WATER AND SEWER, APPENDIX 12.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Michael J. Sisson 1/25/91
DATE

Michael J. Sisson 1-24-91
DATE

Robert A. Bennett 1-24-91
DATE

CHIEF, BUREAU OF ENGINEERING
CHIEF, UTILITY DESIGN DIVISION

BUCHART HORNIG
Engineers, Architects, and Planners

Baltimore, MD
Charleston, WV
Frankfort, W. Germany
Lancaster, PA
Levittown, PA

Memphis, TN
Mt. Laurel, NJ
New Orleans, LA
Wilmington, VA
York, PA



DES: J. FALK			
DRN: A.G.S.			
CHK:			
DATE: 9/25/90	BY	NO.	REVISION

SEDIMENT & EROSION CONTROL PLAN

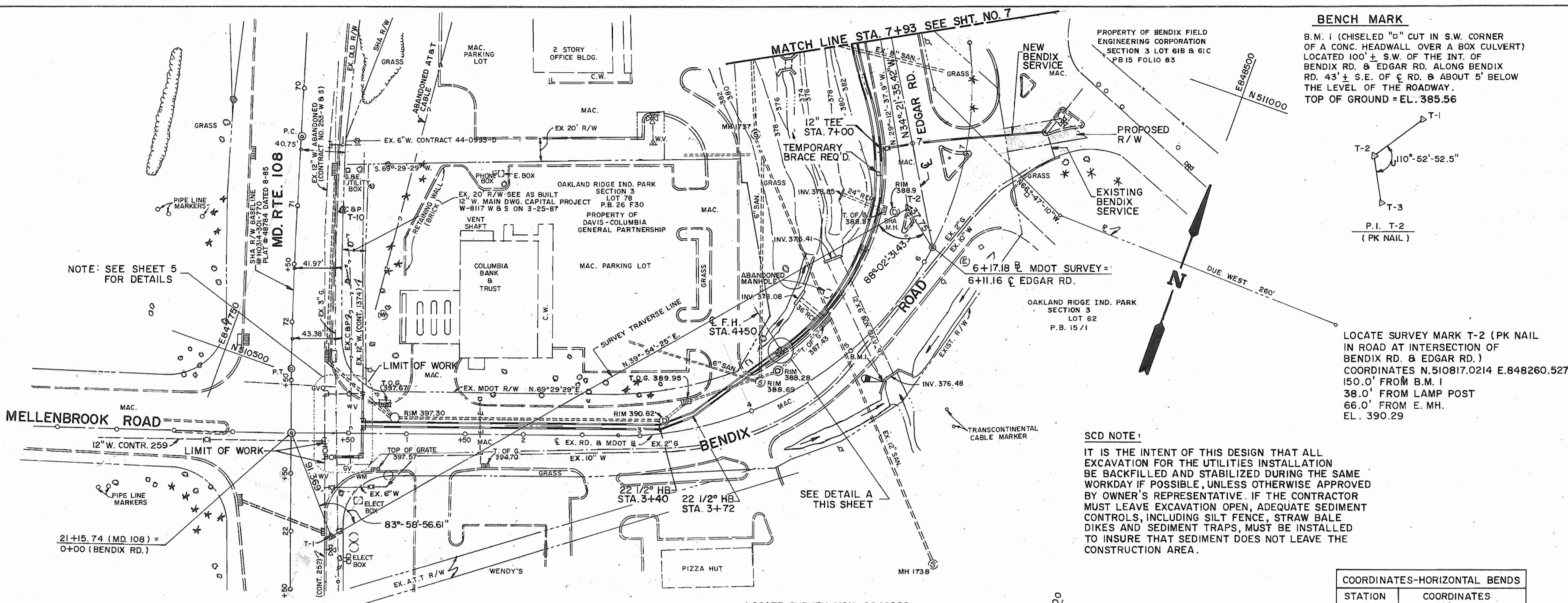
DATE: 9/25/90

600' SCALE MAP NO. 30 BLOCK NO. 10 & 11

EDGAR ROAD WATER SUCTION & DISCHARGE MAINS
CONTRACT NO. 44-1918
CAPITAL PROJECT NO. W-8129
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 3

AS-BUILT



NOTE: SEE SHEET 5 FOR DETAILS

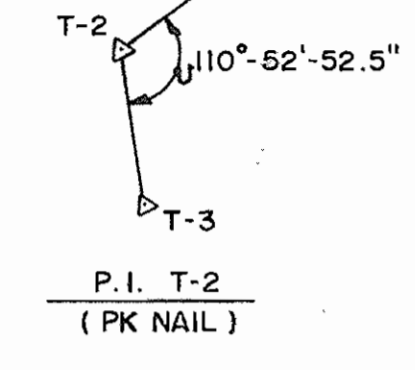
LOCATE SURVEY MARK T-1 (HUB W/ TAC)
 COORDINATES N.510379.5060 E.847894.6010
 SE CURB MD. RTE. 108 & BENDIX RD.
 38.0' FROM ELECT. BOX
 12.0' FROM FIRE HYDRANT
 7.0' FROM INLET

PLAN
 SCALE: 1"=50'
 NOTE: SEE SHEET NO. 5 FOR ENLARGED DETAIL OF THIS AREA

LOCATE SURVEY MON. 2842006 (STD. DISK STAMPED 2842006)
 LOCATED 450' NORTH OF INT. OF RTE. 108 & BENDIX RD. ALONG RTE. 108, 63.3' WEST OF A LARGE TWIN ELM, 90' EAST OF THE EAST EDGE OF RTE. 108. ALSO 65' SW OF TWO COLONIAL PIPELINE R/W & ORANGE PIPE MARKERS. (THIS MON. DOES NOT APPEAR ON THIS DRAWING).

SCD NOTE:
 IT IS THE INTENT OF THIS DESIGN THAT ALL EXCAVATION FOR THE UTILITIES INSTALLATION BE BACKFILLED AND STABILIZED DURING THE SAME WORKDAY IF POSSIBLE, UNLESS OTHERWISE APPROVED BY OWNER'S REPRESENTATIVE. IF THE CONTRACTOR MUST LEAVE EXCAVATION OPEN, ADEQUATE SEDIMENT CONTROLS, INCLUDING SILT FENCE, STRAW BALE DIKES AND SEDIMENT TRAPS, MUST BE INSTALLED TO INSURE THAT SEDIMENT DOES NOT LEAVE THE CONSTRUCTION AREA.

BENCH MARK
 B.M. 1 (CHISELED "D" CUT IN S.W. CORNER OF A CONC. HEADWALL OVER A BOX CULVERT) LOCATED 100' S.W. OF THE INT. OF BENDIX RD. & EDGAR RD. ALONG BENDIX RD. 43' ± S.E. OF C.R.D. & ABOUT 5' BELOW THE LEVEL OF THE ROADWAY.
 TOP OF GROUND = EL. 385.56



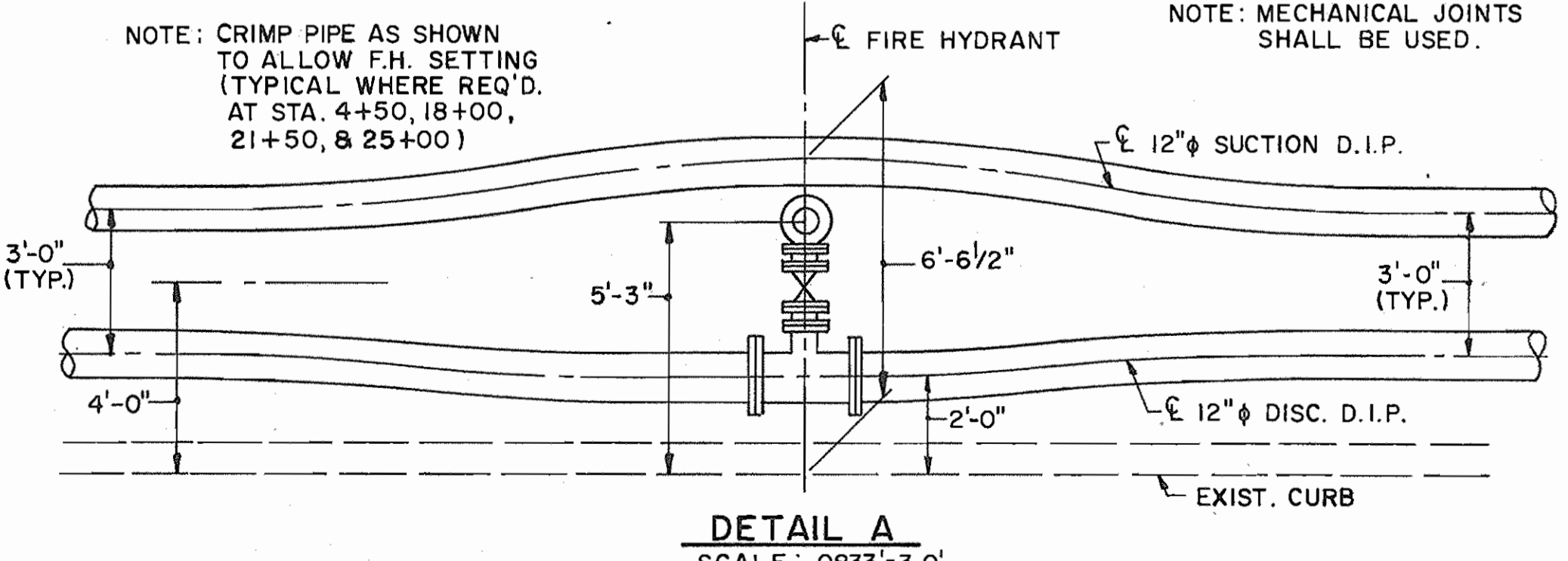
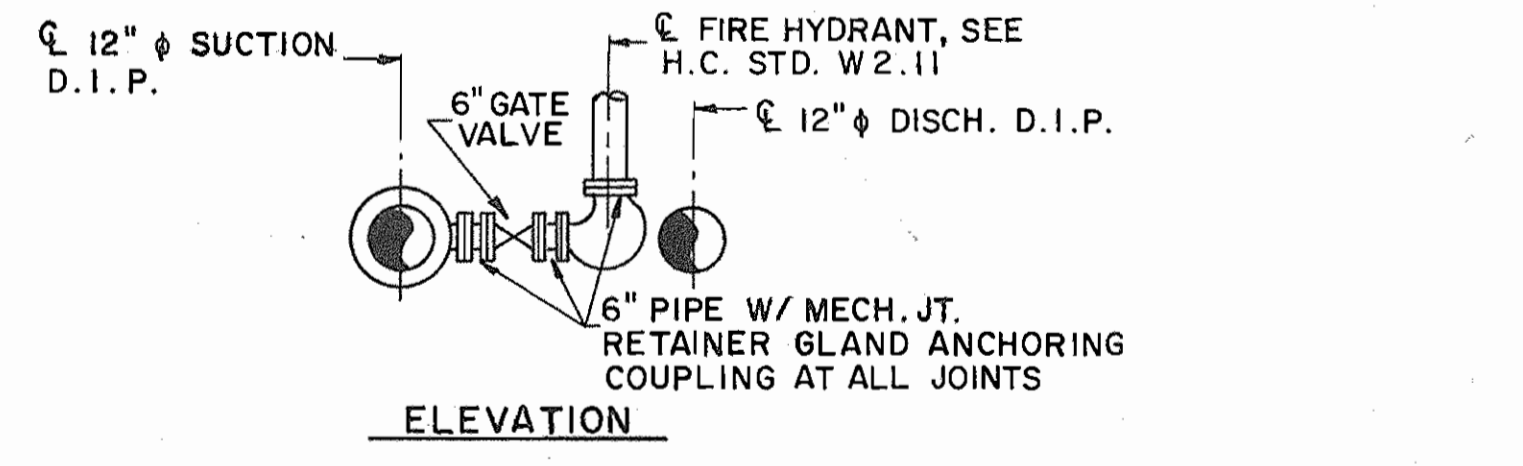
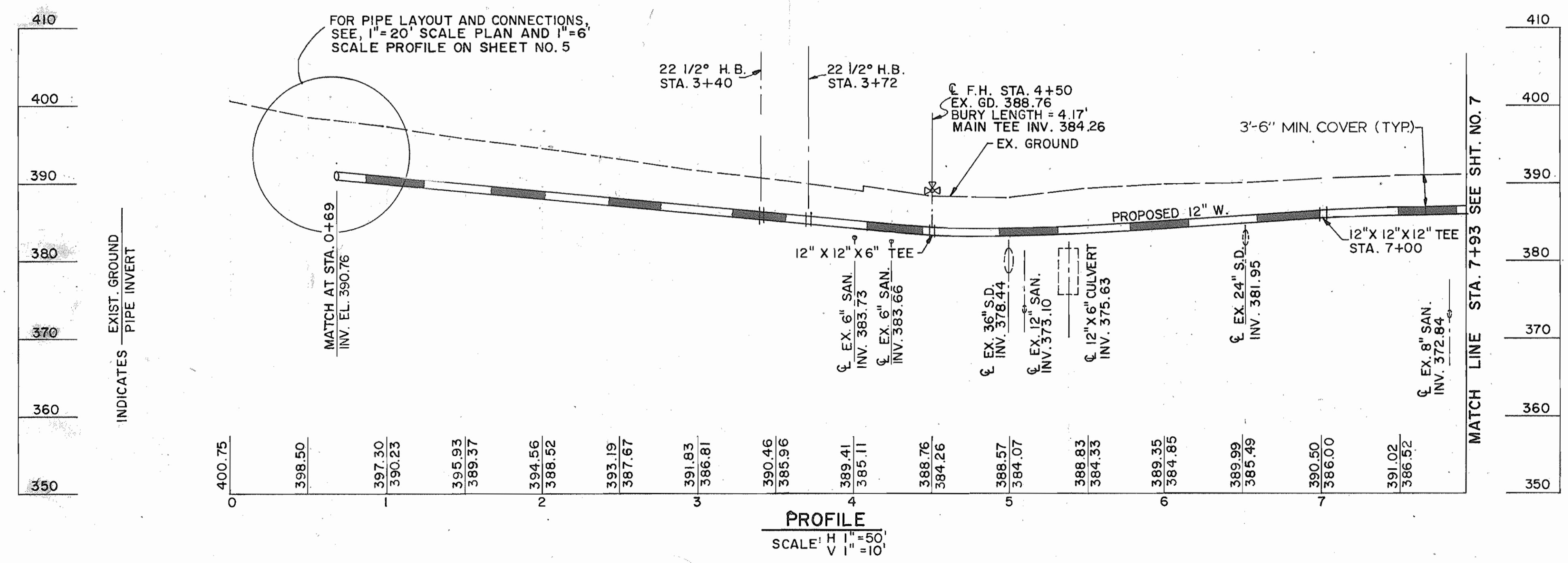
LOCATE SURVEY MARK T-2 (PK NAIL) IN ROAD AT INTERSECTION OF BENDIX RD. & EDGAR RD.)
 COORDINATES N.510817.0214 E.848260.5274
 150.0' FROM B.M. 1
 38.0' FROM LAMP POST
 66.0' FROM E. MH.
 EL. 390.29

STATION	COORDINATES
0+69	N510,476 E847,880
3+40	N510,574 E848,131
3+72	N510,596 E848,154
10+55	N511,155 E848,036
11+60	N511,242 E847,973
16+85.5	N511,708 E847,522

NOTE: STAKE OUT & OFFSETS TAKEN FROM EXISTING MDOT BASELINE AND C EDGAR RD.

STATION	OFFSET	DESCRIPTION
0+00		NO WORK
0+29	20' R	CONNECT TO EX. W. LINE W/TEE
0+69	20' R	90° HORIZ. ELBOW
0+69	6' L	90° HORIZ. ELBOW
3+40	6' L (RAD.)	22 1/2" HORIZ. ELBOW
3+72	12' L (RAD.)	22 1/2" HORIZ. ELBOW
4+00	28' L (RAD.)	C PIPES
4+50	35' L (RAD.)	FIRE HYDRANT
5+00	39' L (RAD.)	C PIPES
6+00	55' L (RAD.)	C PIPES
6+14.5	57' L (RAD.)	C PIPES = 6+09 C EDGAR ROAD
7+00	30' L	C PIPES, TEE & VALVE
7+50	30' L	C PIPES
8+00	33' L	FIRE HYDRANT
10+55	33' L	22 1/2" HORIZ. ELBOW
10+85	30' L	12" GATE VALVE
11+00	37' L	FIRE HYDRANT
11+10	39' L	12" GATE VALVE
11+50	42' L	C PIPES
11+60	42' L	11 1/4" HORIZ. ELBOW
12+00	43' L	C PIPES
14+50	43' L	C PIPES & FIRE HYDRANT
16+85.5	43' L	C PIPES & 90° HORIZ. ELBOWS
16+96	28' R	12" GATE VALVE
18+00	28' R (RAD.)	C PIPE & FIRE HYDRANT
19+00	28' R (RAD.)	C PIPE
21+00	28' R (RAD.)	12" GATE VALVE
21+50	28' R (RAD.)	FIRE HYDRANT
22+00	28' R	C PIPE
25+00	28' R	FIRE HYDRANT
25+50	28' R	CONNECT TO EX. PIPE

WL STATION	DESCRIPTION
0+00 TO 4+10	BITUMINOUS PAVING
4+10 TO 4+12	CONC. CURB
4+12 TO 16+85.5	SEED & MULCH
CROSSOVER EDGAR RD. 75'	SEED & MULCH, CONC. CURB, 44' BITU. PAVING, CONC. CURB, SEED & MULCH
16+85.5 TO 25+50	SEED & MULCH
6+99 TO 7+01	CONC. CURB
0+00 TO 1+50 SERVICE	SEED & MULCH
LINE TO BENDIX CORP.	BITUMINOUS PAVING
SERVICE LINE TO BENDIX	47' MOUNTABLE CONC. CURB



DETAIL A
 SCALE: 1"=3'-0"

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Robert J. Seaman 1/25/91
 DIRECTOR OF PUBLIC WORKS DATE

Robert J. Seaman 1-24-91
 CHIEF, BUREAU OF UTILITIES DATE

William S. Ray 1-19-91
 CHIEF, BUREAU OF ENGINEERING DATE

Orlando 1-16-91
 CHIEF, UTILITY DESIGN DIVISION DATE

BUCHART HORN, INC.
 Engineers, Architects and Planners



DES: J. FALK	
DRN: A.G.S.	
CHK:	
DATE: 9/25/90	
BY NO.	REVISION
	DATE

PLAN & PROFILE
12" SUCTION & DISCHARGE
WATER LINES

600' SCALE MAP NO. 30 BLOCK NO. 10 & 11

EDGAR ROAD WATER
SUCTION & DISCHARGE MAINS
 CONTRACT NO. 44-1918
 CAPITAL PROJECT NO. W-8129
 ELECTION DISTRICT NO. 2
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 4 OF 8

AS-BUILT

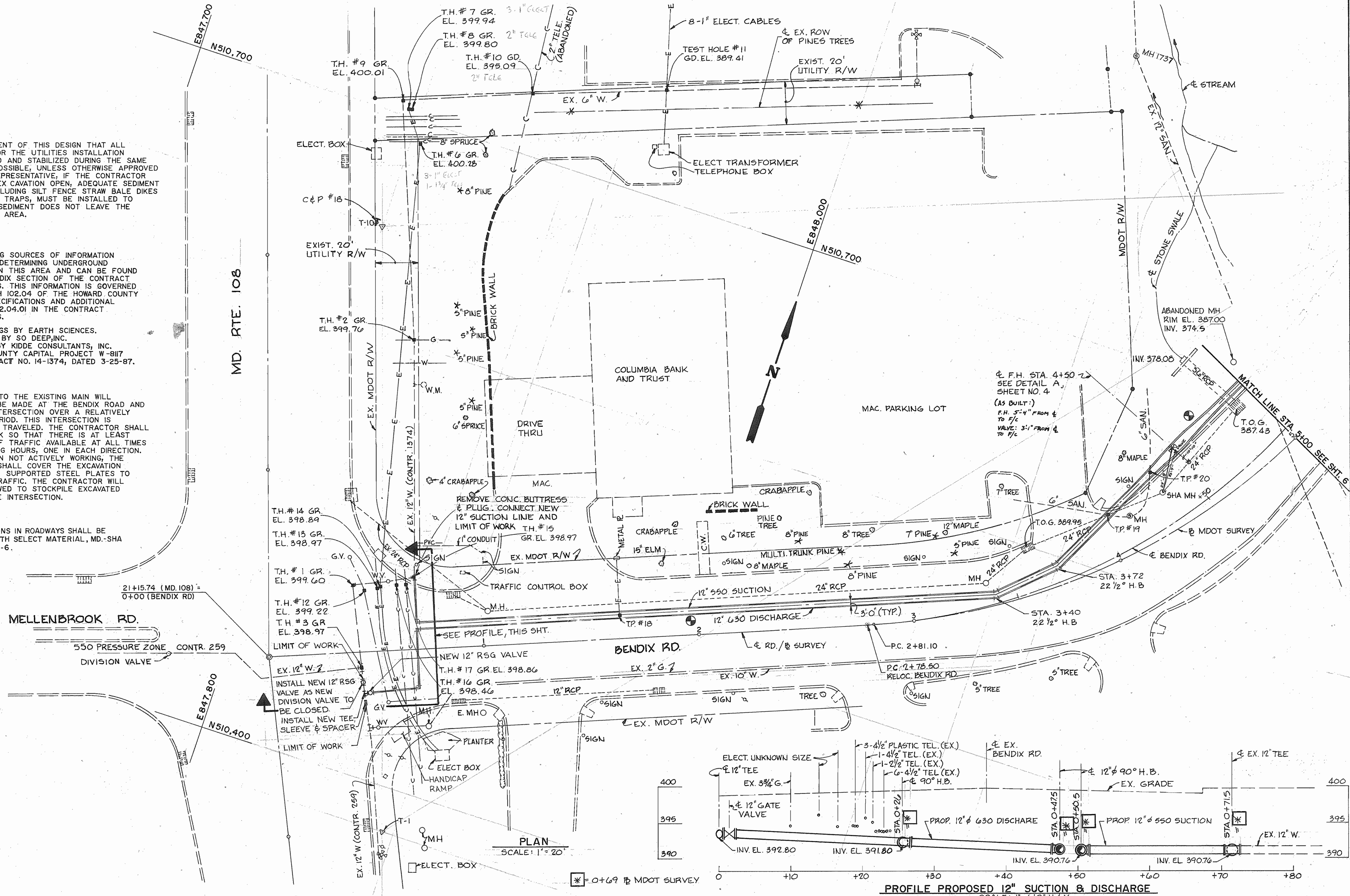
SCD NOTE:
 IT IS THE INTENT OF THIS DESIGN THAT ALL EXCAVATION FOR THE UTILITIES INSTALLATION BE BACKFILLED AND STABILIZED DURING THE SAME WORKDAY IF POSSIBLE, UNLESS OTHERWISE APPROVED BY OWNERS REPRESENTATIVE, IF THE CONTRACTOR MUST LEAVE EX CAVATION OPEN, ADEQUATE SEDIMENT CONTROLS, INCLUDING SILT FENCE STRAW BALE DIKES AND SEDIMENT TRAPS, MUST BE INSTALLED TO INSURE THAT SEDIMENT DOES NOT LEAVE THE CONSTRUCTION AREA.

NOTE: #1
 THE FOLLOWING SOURCES OF INFORMATION WAS USED IN DETERMINING UNDERGROUND INFORMATION IN THIS AREA AND CAN BE FOUND IN THE APPENDIX SECTION OF THE CONTRACT SPECIFICATIONS. THIS INFORMATION IS GOVERNED BY PARAGRAPH 102.04 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND ADDITIONAL PARAGRAPH 102.04.01 IN THE CONTRACT SPECIFICATIONS.

1. TEST BORINGS BY EARTH SCIENCES.
2. TEST PITS BY SO DEEP, INC.
3. AS BUILT BY KIDDE CONSULTANTS, INC. HOWARD COUNTY CAPITAL PROJECT W-8117 W&S CONTRACT NO. 14-1374, DATED 3-25-87.

NOTE: #2
 CONNECTIONS TO THE EXISTING MAIN WILL NECESSARILY BE MADE AT THE BENDIX ROAD AND ROUTE 108 INTERSECTION OVER A RELATIVELY LONG TIME PERIOD. THIS INTERSECTION IS VERY HEAVILY TRAVELED. THE CONTRACTOR SHALL PLAN HIS WORK SO THAT THERE IS AT LEAST TWO LANES OF TRAFFIC AVAILABLE AT ALL TIMES DURING WORKING HOURS, ONE IN EACH DIRECTION. AT TIMES, WHEN NOT ACTIVELY WORKING, THE CONTRACTOR SHALL COVER THE EXCAVATION WITH SUITABLY SUPPORTED STEEL PLATES TO CARRY THE TRAFFIC. THE CONTRACTOR WILL NOT BE ALLOWED TO STOCKPILE EXCAVATED EARTH AT THE INTERSECTION.

NOTE: #3
 ALL EXCAVATIONS IN ROADWAYS SHALL BE BACKFILLED WITH SELECT MATERIAL, MD-SHA GRADATION CR-6.



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

[Signature] 1/25/91
 DIRECTOR OF PUBLIC WORKS DATE

[Signature] 1-17-91
 CHIEF, BUREAU OF ENGINEERING DATE

[Signature] 1-24-91
 CHIEF, BUREAU OF UTILITIES DATE

[Signature] 1-16-91
 CHIEF, UTILITY DESIGN DIVISION DATE

BUCHART HORN, INC.
 Engineers, Architects and Planners

Baltimore, MD. Memphis, TN
 Charleston, WV. Mt. Laurel, NJ
 Franklin, W. Germany New Orleans, LA
 Lancaster, PA. Williamsburg, VA.
 Landisburg, PA. York, PA.



DES: J. FALK
 DRN: A.G.S.
 CHK:
 DATE: 9/25/90 BY NO. REVISION DATE

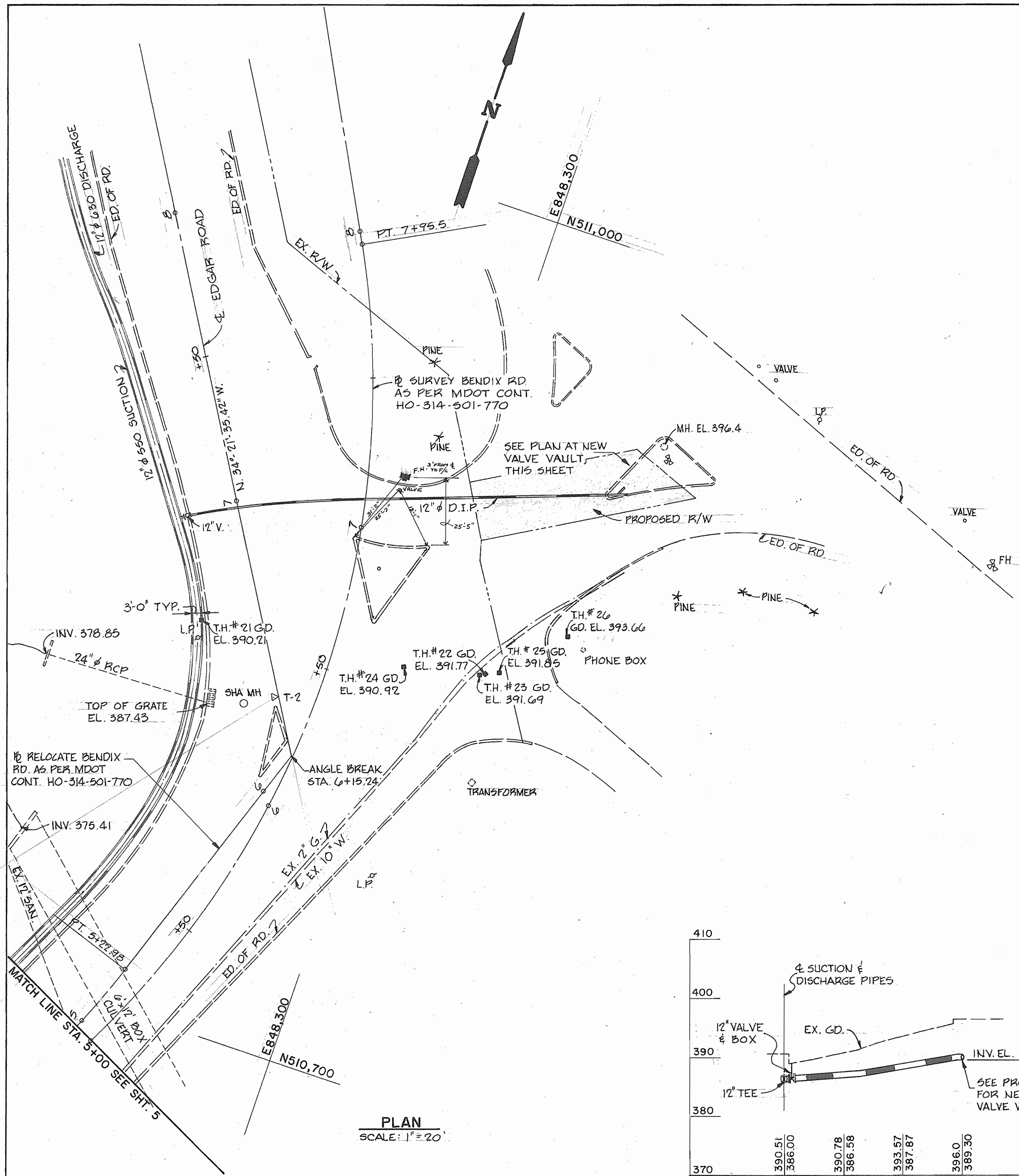
12" SUCTION & DISCH. MAINS AT BENDIX ROAD & ROUTE 108

600' SCALE MAP NO. 30 BLOCK NO. 10 & 11

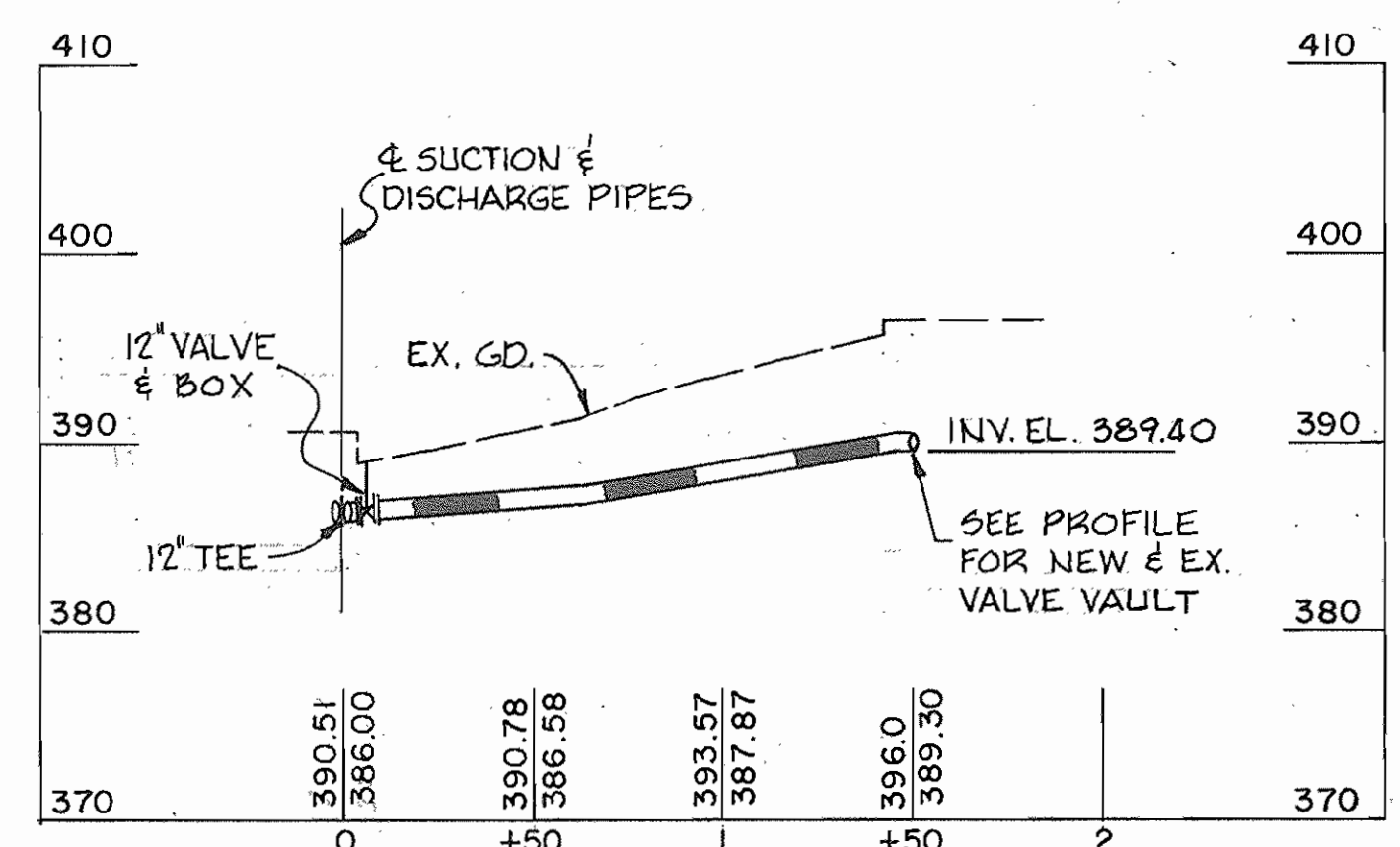
EDGAR ROAD WATER SUCTION & DISCHARGE MAINS CONTRACT NO. 44-1918 CAPITAL PROJECT NO. W-8129 ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 5 OF 8

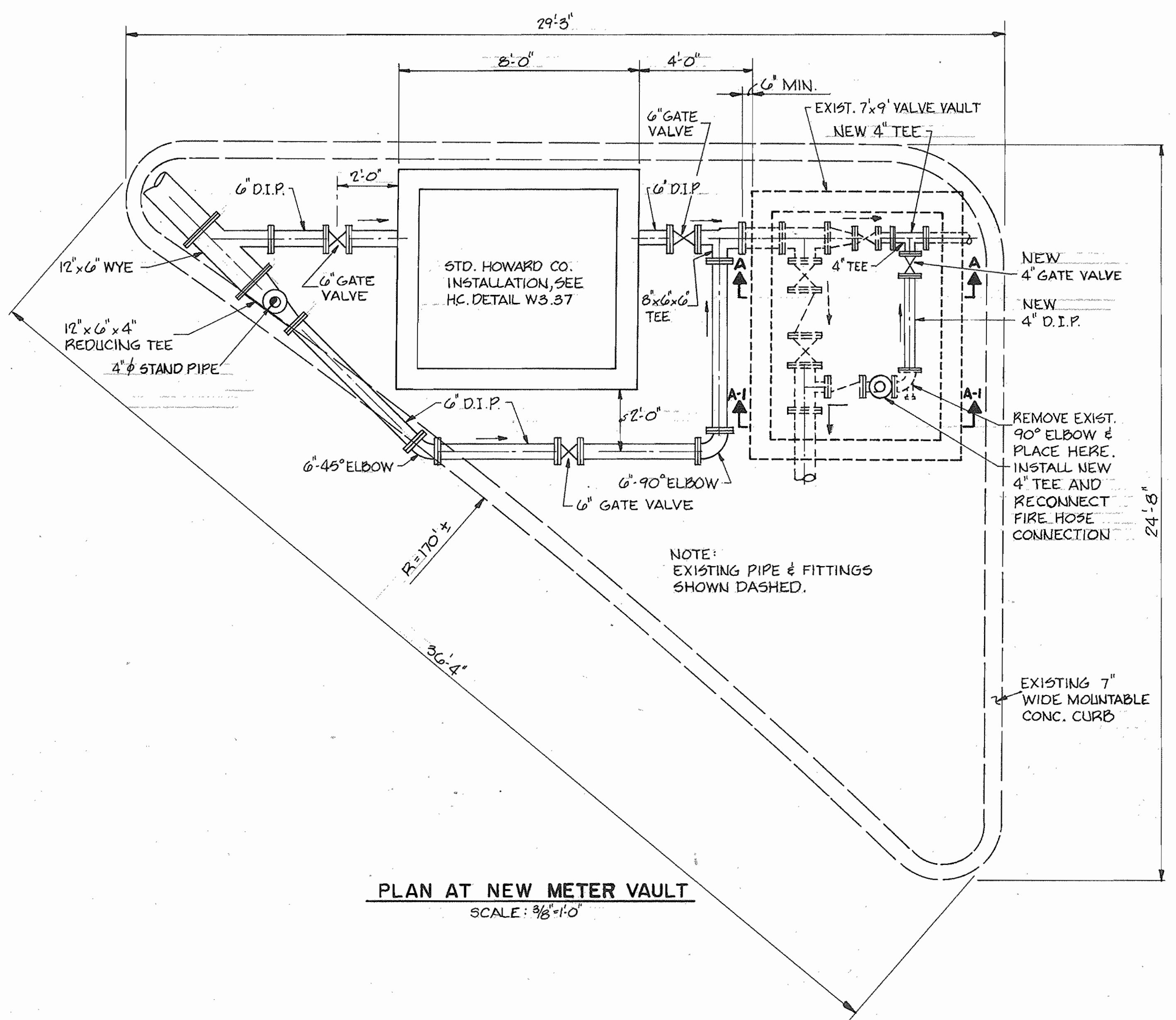
AS-BUILT



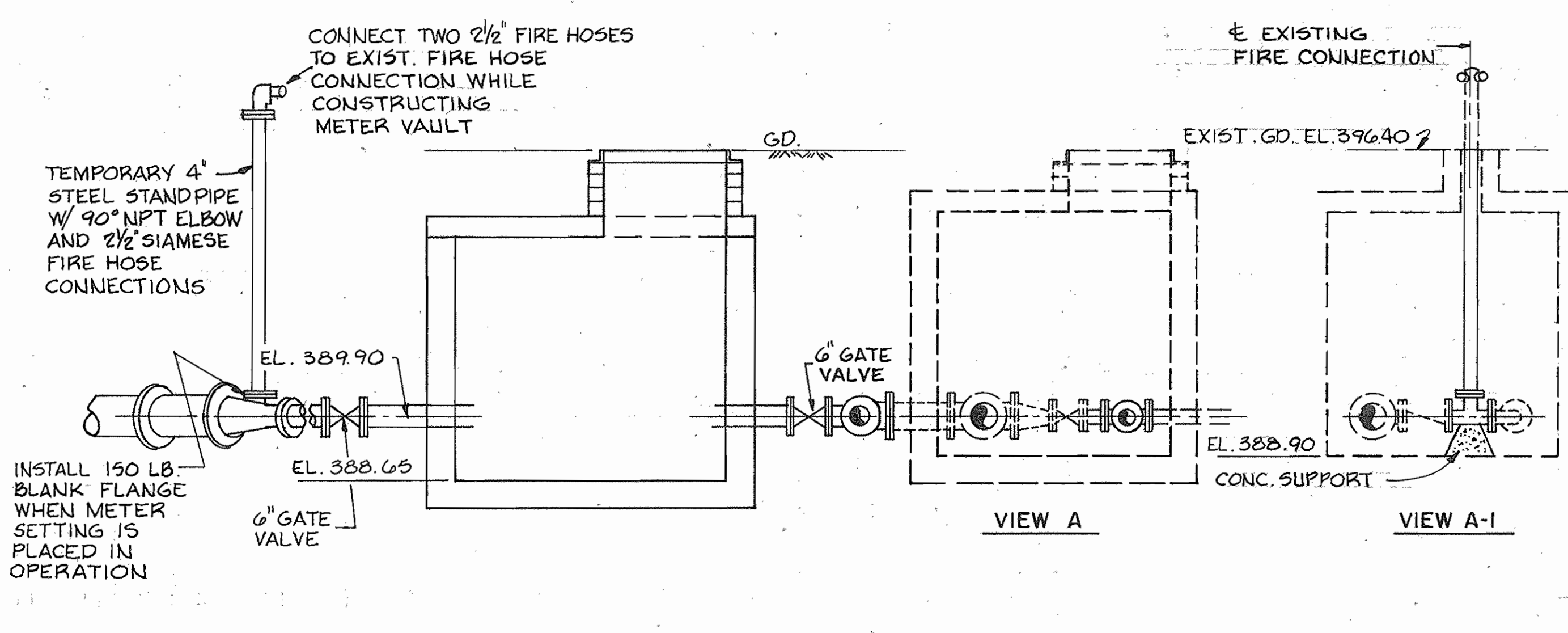
PLAN
SCALE: 1"=20'



PROFILE 12" D.I.P. SERVICE LINE
SCALE: H 1"=10'
V 1"=10'



PLAN AT NEW METER VAULT
SCALE: 3/8"=1'0"



PROFILE NEW & EXISTING VALVE VAULT
SCALE: 3/8"=1'0"

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Donald J. Soren 1/25/91
DIRECTOR OF PUBLIC WORKS DATE

Richard A. Berman 1-24-91
CHIEF, BUREAU OF UTILITIES DATE

Richard A. Berman 1-24-91
CHIEF, BUREAU OF ENGINEERING DATE

Richard A. Berman 1-16-91
CHIEF, UTILITY DESIGN DIVISION DATE

b
BUCHART
HORN, INC.

BALTIMORE, MD. MEMPHIS, TN.
CHARLESTON, WV. MT. LAUREL, N.J.
FRANKFURT, GERMANY NEW ORLEANS, LA.
LANCASTER, PA. WILLIAMSBURG, VA.
LEWISBURG, PA. YORK, PA.

Engineers, Architects and Planners



DES: J. FALK
DRN: A. G. S.
CHK:
DATE: 9/22/90 BY NO. REVISION DATE

12" SERVICE LINE
TO
BENDIX CORP.

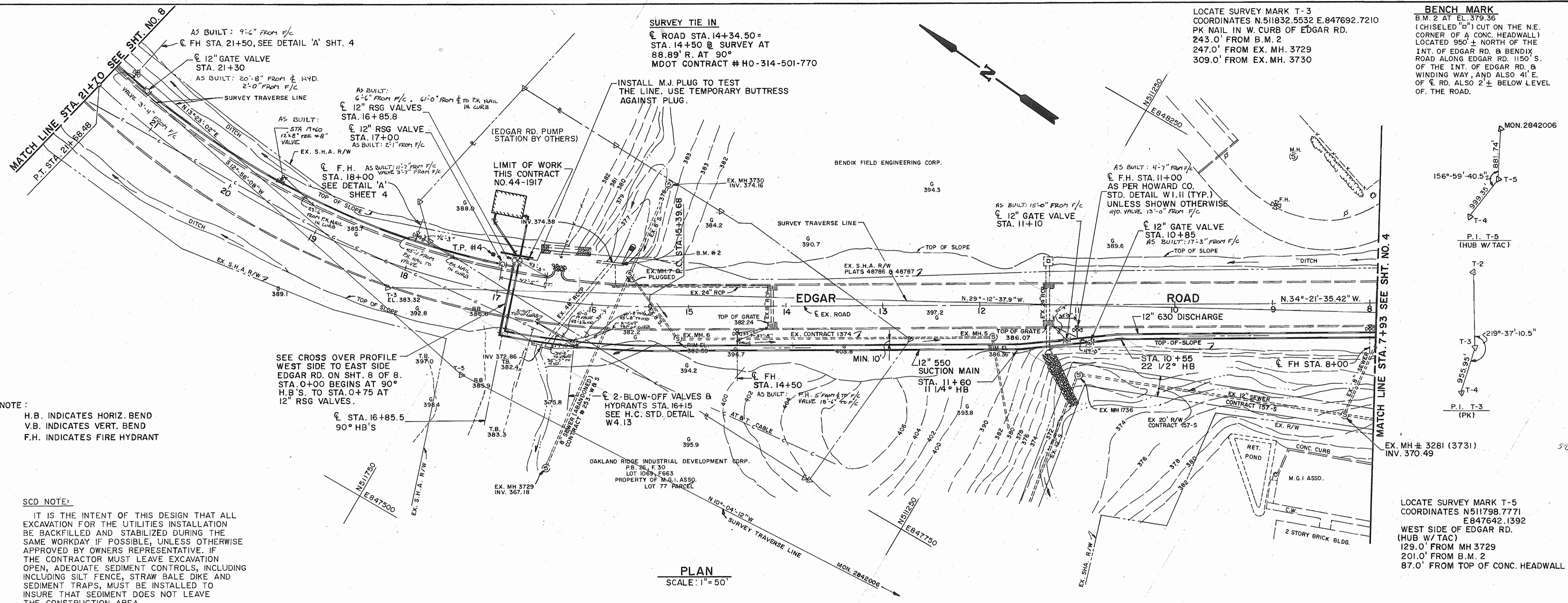
600' SCALE MAP NO. 30 BLOCK NO. 10 & 11

EDGAR ROAD WATER
SUCTION & DISCHARGE MAINS
CONTRACT NO. 44-1918
CAPITAL PROJECT NO. W-8129
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

SHEET
6 OF 8

AS-BUILT



SURVEY TIE IN
 ROAD STA. 14+34.50 =
 STA. 14+50 @ SURVEY AT
 88.89' R. AT 90°
 MDOT CONTRACT # HO-314-501-770

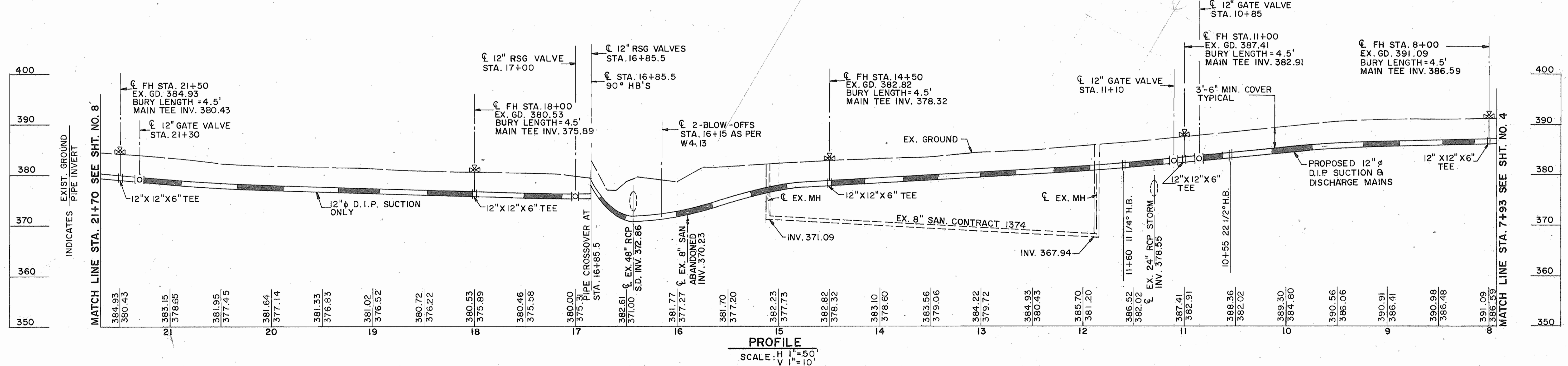
LOCATE SURVEY MARK T-3
 COORDINATES N.511832.5532 E.847692.7210
 PK NAIL IN W. CURB OF EDGAR RD.
 243.0' FROM B.M. 2
 247.0' FROM EX. MH. 3729
 309.0' FROM EX. MH. 3730

BENCH MARK
 B.M. 2 AT EL. 379.36
 (CHISELED "0") CUT ON THE N.E.
 CORNER OF A CONC. HEADWALL)
 LOCATED 950 ± NORTH OF THE
 INT. OF EDGAR RD. & BMDIX
 ROAD ALONG EDGAR RD. 1150' S.
 OF THE INT. OF EDGAR RD. &
 WINDING WAY, AND ALSO 41' E.
 OF EX. RD. ALSO 2 ± BELOW LEVEL
 OF THE ROAD.

NOTE:
 H.B. INDICATES HORIZ. BEND
 V.B. INDICATES VERT. BEND
 F.H. INDICATES FIRE HYDRANT

SCD NOTE:
 IT IS THE INTENT OF THIS DESIGN THAT ALL
 EXCAVATION FOR THE UTILITIES INSTALLATION
 BE BACKFILLED AND STABILIZED DURING THE
 SAME WORKDAY IF POSSIBLE, UNLESS OTHERWISE
 APPROVED BY OWNERS REPRESENTATIVE. IF
 THE CONTRACTOR MUST LEAVE EXCAVATION
 OPEN, ADEQUATE SEDIMENT CONTROLS, INCLUDING
 INCLUDING SILT FENCE, STRAW BALE DIKE AND
 SEDIMENT TRAPS, MUST BE INSTALLED TO
 INSURE THAT SEDIMENT DOES NOT LEAVE
 THE CONSTRUCTION AREA.

PLAN
 SCALE: 1" = 50'



PROFILE
 SCALE: H 1" = 50'
 V 1" = 10'

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

1/25/91
 DIRECTOR OF PUBLIC WORKS

1-24-91
 CHIEF, BUREAU OF UTILITIES

Bethesda, MD
 Charlotte, NV
 Frankfurt, W. Germany
 Lancaster, PA
 Leesburg, VA
 York, PA

**BUCHART
 HORN, INC.**

Engineers, Architects and Planners

DES: J. FALK
 DRN: A.G.S.
 CHK:
 DATE: 9/25/90

BY	NO.	REVISION

PLAN & PROFILE
12" SUCTION & DISCHARGE
WATER LINES

600' SCALE MAP NO. 30 BLOCK NO. 10 & 11

EDGAR ROAD WATER
SUCTION & DISCHARGE MAINS
CONTRACT NO. 44-1918
CAPITAL PROJECT NO. W-8129
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 7 OF 8

AS-BUILT

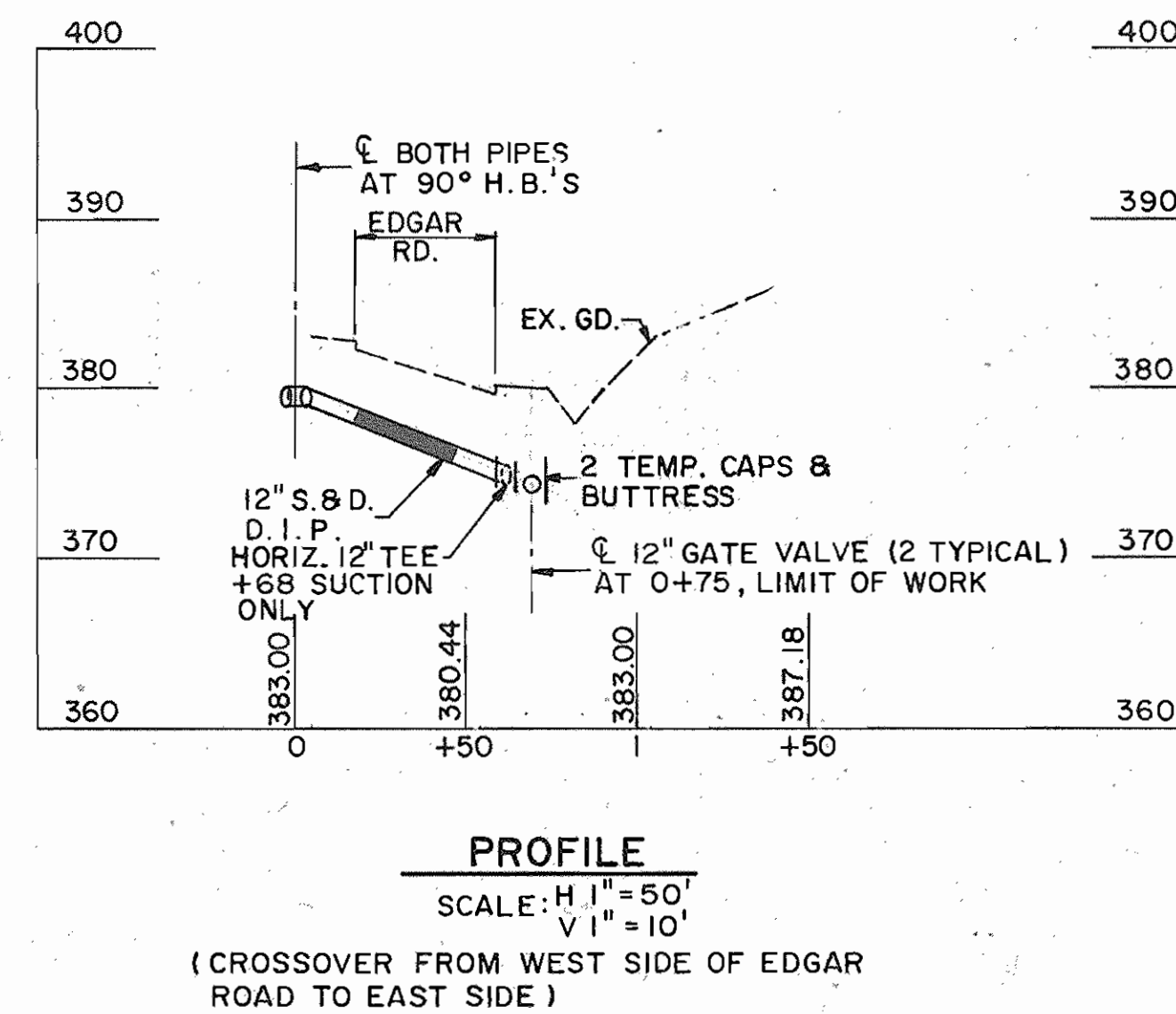
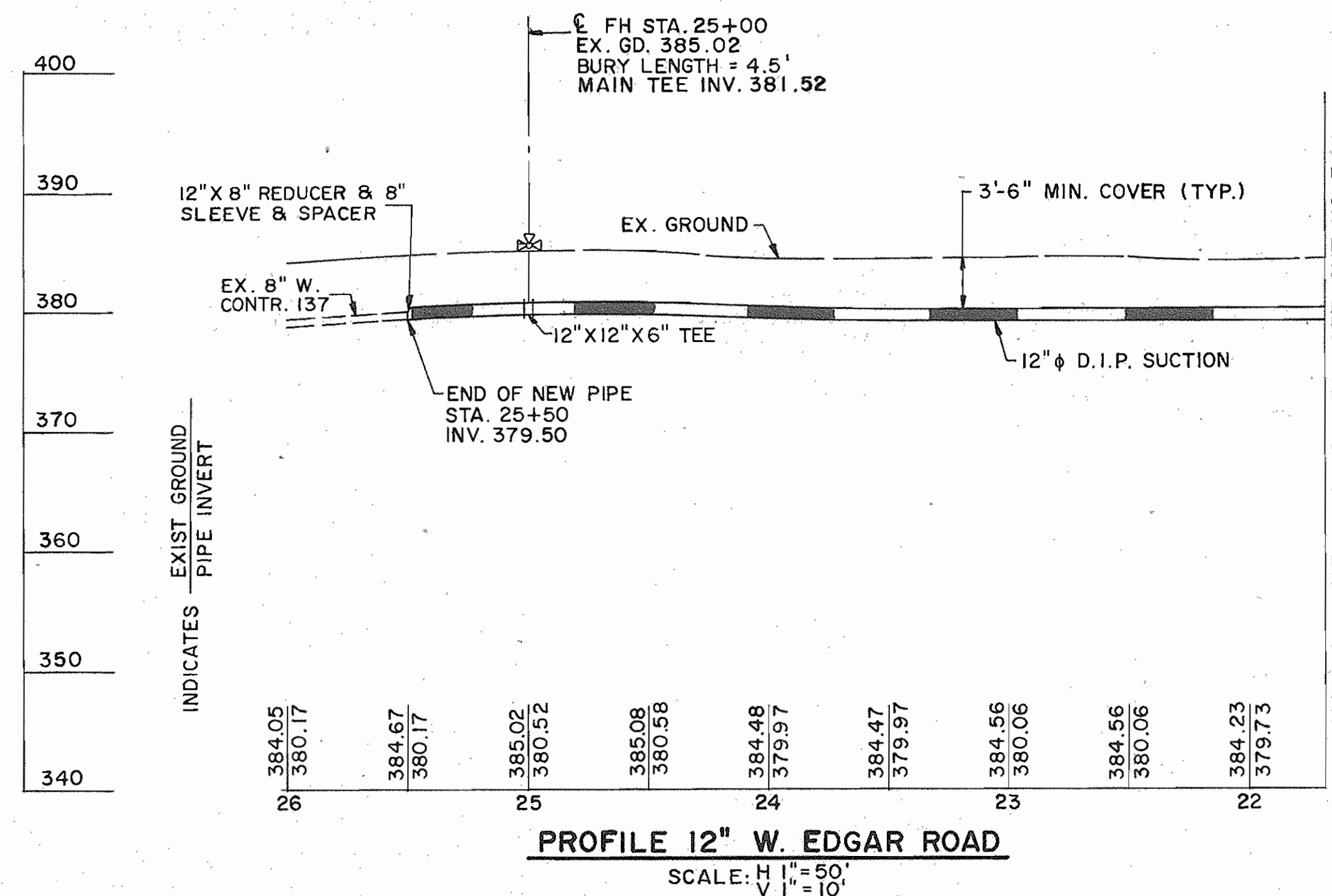
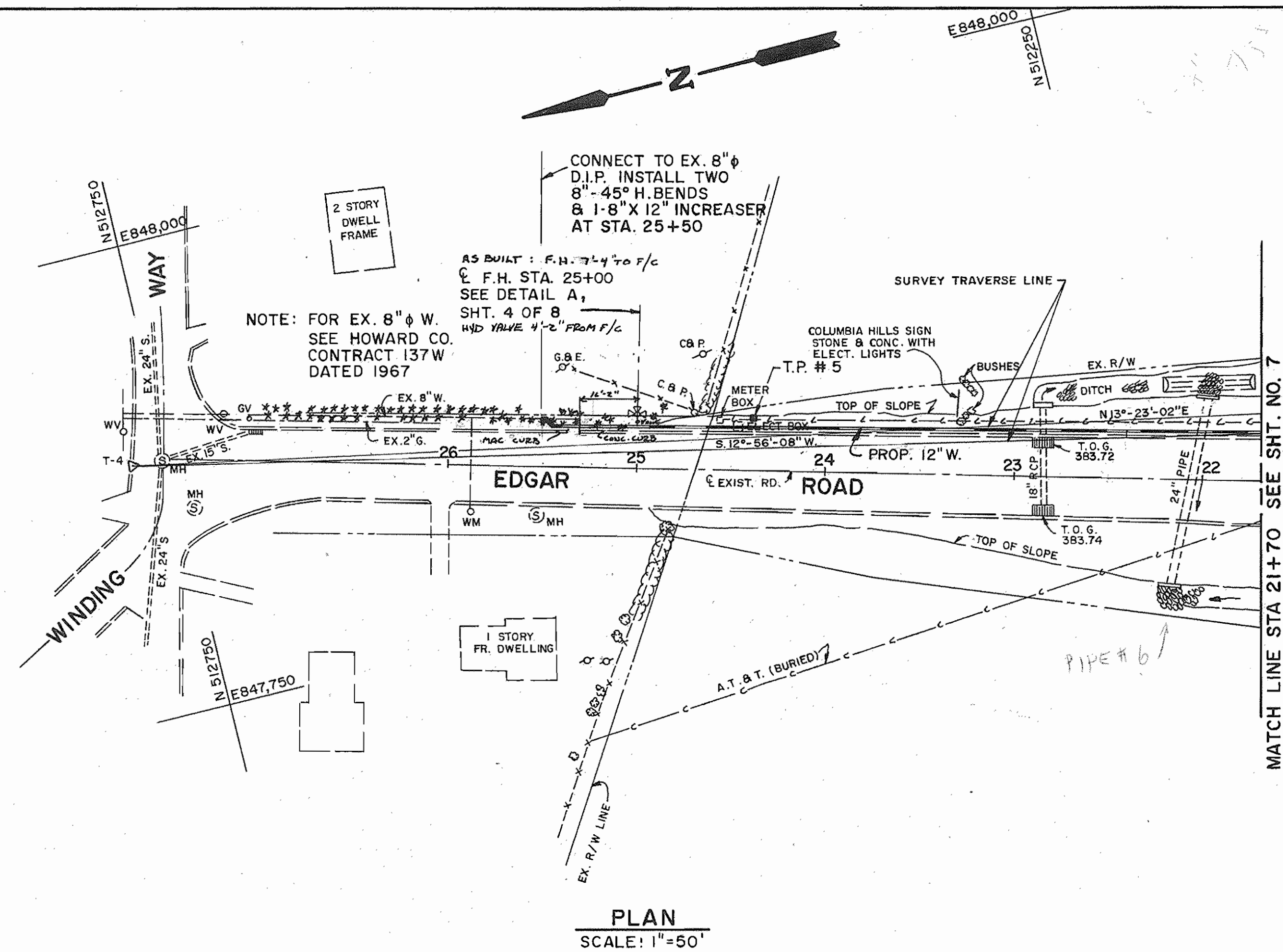
CONSTRUCTION SEQUENCE

THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION AND SCHEDULE, FOR APPROVAL, FOR CONNECTING THE SUCTION AND DISCHARGE MAIN. GENERALLY, THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED FOR THE INSTALLATION OF WATER MAINS:

1. WITHIN LIMIT OF CONTRACT, INSTALL ALL 12" PIPE, FITTINGS, AND VALVES ON THE PUMPING STATION SITE.
2. INSTALL SUCTION AND DISCHARGE {S & D} MAINS ACROSS EDGAR ROAD, CONTINUE SOUTH ALONG WEST SIDE OF EDGAR ROAD, TURNING INTO BENDIX ROAD ALONG SIDE OF THE BANK BUILDING, STOPPING THE SUCTION AND DISCHARGE MAIN IN CLOSE PROXIMITY TO THE EXISTING 12" X 12" TEE CONNECTION NEAR ROUTE 108 AND THE 20' EAST/WEST RIGHT OF WAY NEAR THE BANK BUILDING. IN ADDITION THE 12" SERVICE PIPE, ON THE DISCHARGE MAIN AT STATION 7+00, TO THE BENDIX COMPANY, INCLUDING THE 4" RISER, SHOULD BE INSTALLED.
3. PREPARATIONS SHALL BE MADE TO CUT THE EXISTING 630 HIGH PRESSURE MAIN, BETWEEN THE MELLONBROOK TEE AND THE BENDIX TEE, AT THE ENTRANCE TO BENDIX ROAD, BY EXPOSING ALL PIPE, FITTINGS, AND INTERFERING UTILITIES.
4. THE CUTTING OF THE PIPE, INSTALLATION OF VALVES, FITTINGS, AND TIE-INS WILL OCCUR OVER LATE SATURDAY NIGHT AND EARLY HOURS OF SUNDAY. THE SHUT OFF VALVE FOR THE HIGH PRESSURE MAIN IS AT THE INTERSECTION OF THUNDERHILL ROAD AND ROUTE 108 TO THE SOUTH. TESTING OF THIS VALVE AND INFORMING ALL WATER CUSTOMERS SERVED WILL PRECEDE THE SHUT DOWN. THE OBJECT FOR THIS EFFORT WILL BE TO INSTALL THE NEW DIVISION VALVE, TEE, AND DISCHARGE VALVE SO THAT THE BENDIX CORP., PIZZA HUT, AND WENDY'S WILL HAVE WATER TO START OUT SUNDAY. AT THE SAME TIME THE ABOVE IS BEING ACCOMPLISHED, ANOTHER CREW WILL CUT IN THE 4" BY-PASS CONNECTION INSIDE THE BENDIX VALVE VAULT.
5. THE SUCTION PIPE AND BALANCE OF THE DISCHARGE PIPE CAN BE CONNECTED DURING ALL DAY SUNDAY AND EARLY HOURS OF MONDAY SO THAT THE BANK BUILDING AND THE MONY BUILDING WILL HAVE WATER MONDAY MORNING.
6. THE SUCTION PIPE, CAN THEN BE COMPLETED TO WINDING WAY, TESTED, STERILIZED, AND CONNECTED TO THE EXISTING PIPE AT THE INTERSECTION DURING THE REGULAR WORKING HOURS.
7. AT THIS TIME THE SUCTION AND DISCHARGE MAINS WILL BE CHARGED AND HOSE CONNECTIONS WILL BE MADE FROM THE 4" RISER TO THE BENDIX FIRE HOSE CONNECTION IN THE BENDIX ROAD TRIANGLE. THIS WILL SUPPLY THE BENDIX CORPORATION WITH WATER UNTIL THE METER VAULT IS COMPLETED.
8. AFTER ALL WORK IN CONNECTION WITH VAULT IS TESTED AND STERILIZED, THE RISER WILL BE DISCONNECTED AND A 4" BLANK FLANGE INSTALLED ON THE 4" SUPPLY LINE.

SCD NOTE:

IT IS THE INTENT OF THIS DESIGN THAT ALL EXCAVATION FOR THE UTILITIES INSTALLATION BE BACKFILLED AND STABILIZED DURING THE SAME WORKDAY IF POSSIBLE, UNLESS OTHERWISE APPROVED BY OWNERS REPRESENTATIVE. IF THE CONTRACTOR MUST LEAVE EXCAVATION OPEN, ADEQUATE SEDIMENT CONTROLS, INCLUDING SILT FENCE, STRAW BALE DIKES AND SEDIMENT TRAPS, MUST BE INSTALLED TO INSURE THAT SEDIMENT DOES NOT LEAVE THE CONSTRUCTION AREA.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 1/25/91
DIRECTOR OF PUBLIC WORKS DATE
[Signature] 1-24-91
CHIEF, BUREAU OF UTILITIES DATE

[Signature] 1-17-91
CHIEF, BUREAU OF ENGINEERING DATE
[Signature] 1-16-91
CHIEF, UTILITY DESIGN DIVISION DATE



DES: J. FALK			
DRN: A. G. S.			
CHK:			
DATE: 9/25/94	BY	NO.	REVISION

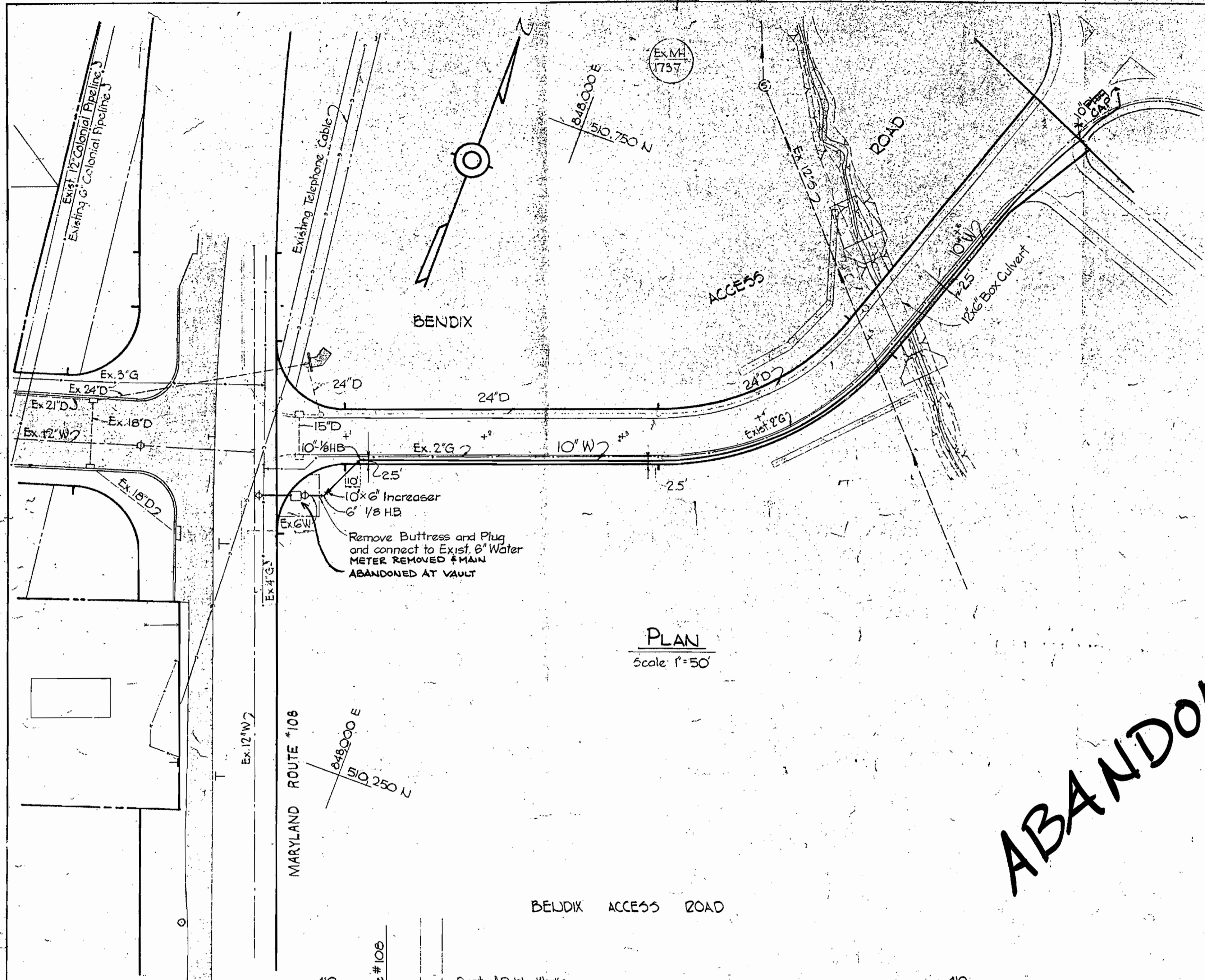
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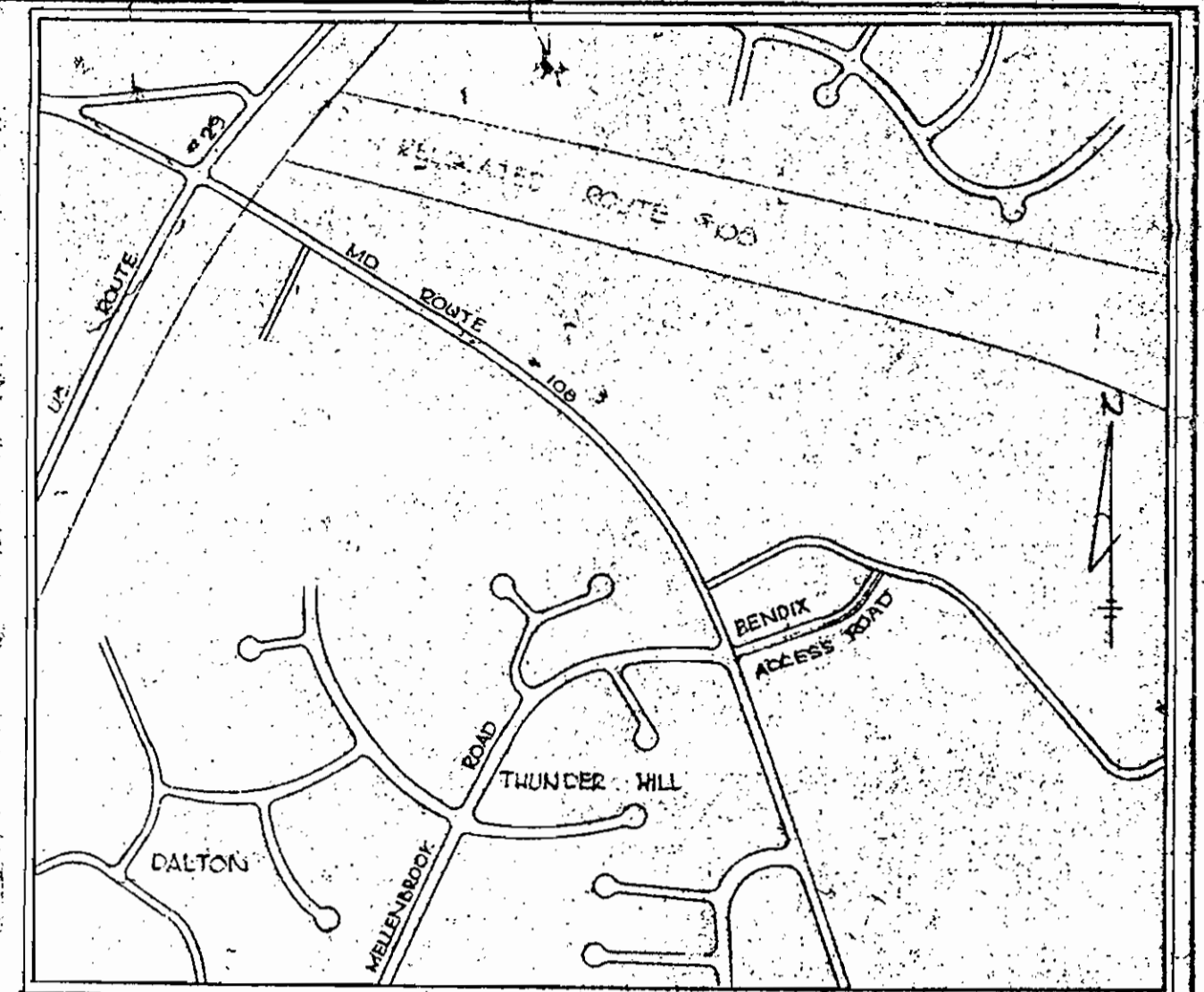
SCALE AS SHOWN
SHEET 8 OF 8

AS-BUILT



GENERAL NOTES

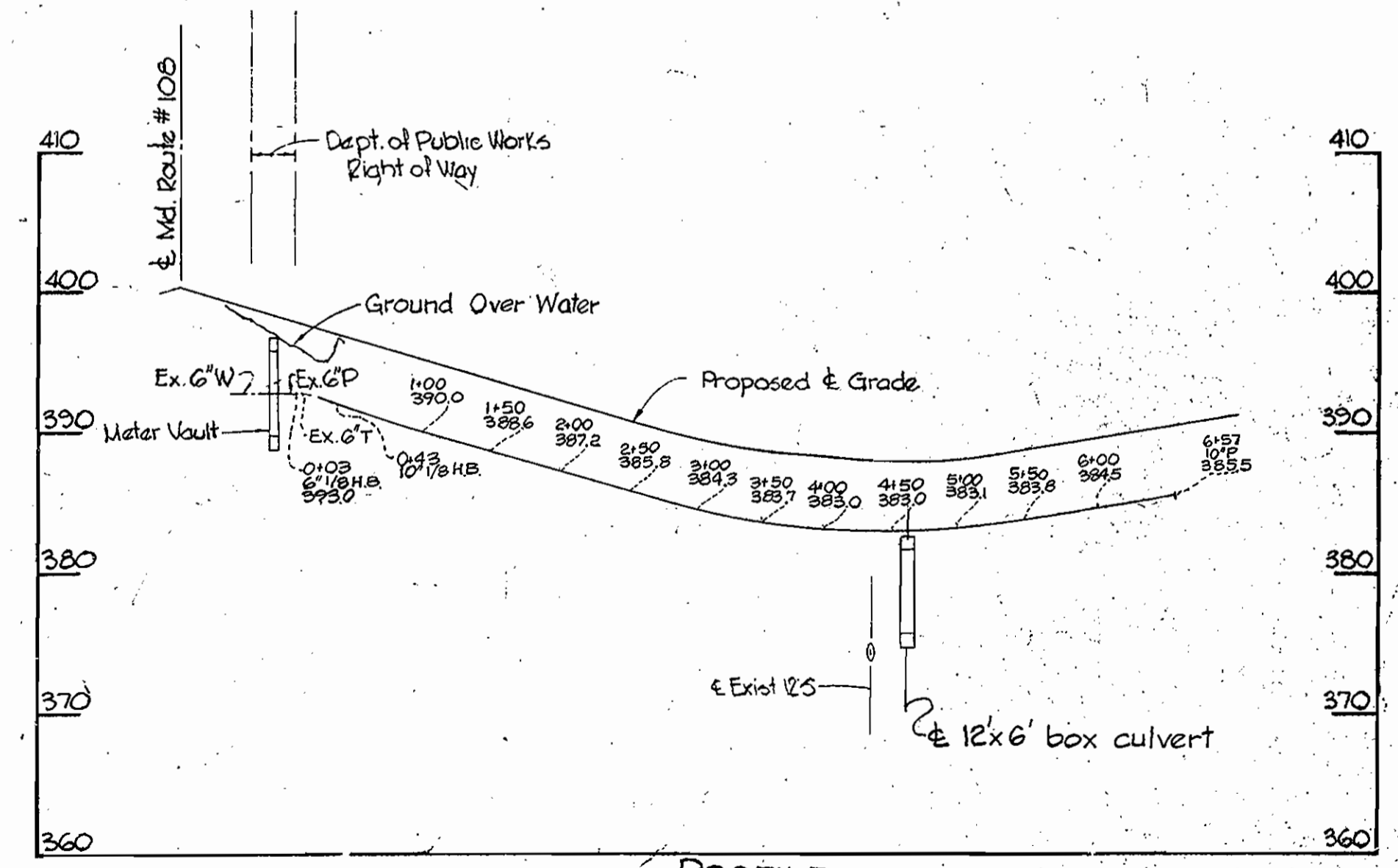
1. Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately.
2. All pipe elevations shown are invert elevations.



VICINITY MAP
Scale: 1" = 600'

PLAN
Scale: 1" = 50'

ABANDONMENT



PROFILE
Scale: H: 1" = 100', V: 1" = 10'

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

COLUMBIA
HOWARD COUNTY, MARYLAND

CONTRACT NO. _____

PLAN AND PROFILE OF
WATER MAINS

EDGAR ROAD/BENDIX ROAD 10" W ABANDONMENT
CONTRACT 44-1918

DRAWING NO. BA	SCALE AS SHOWN
OF 8	