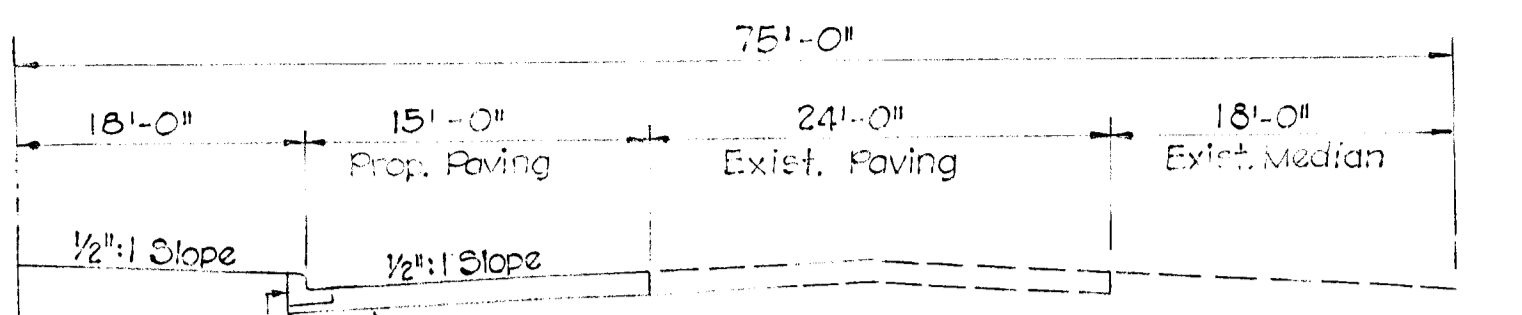


PLAN  
 SURVEYED BY: [Name]  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]  
 DATE: [Date]  
 NO. [Number]

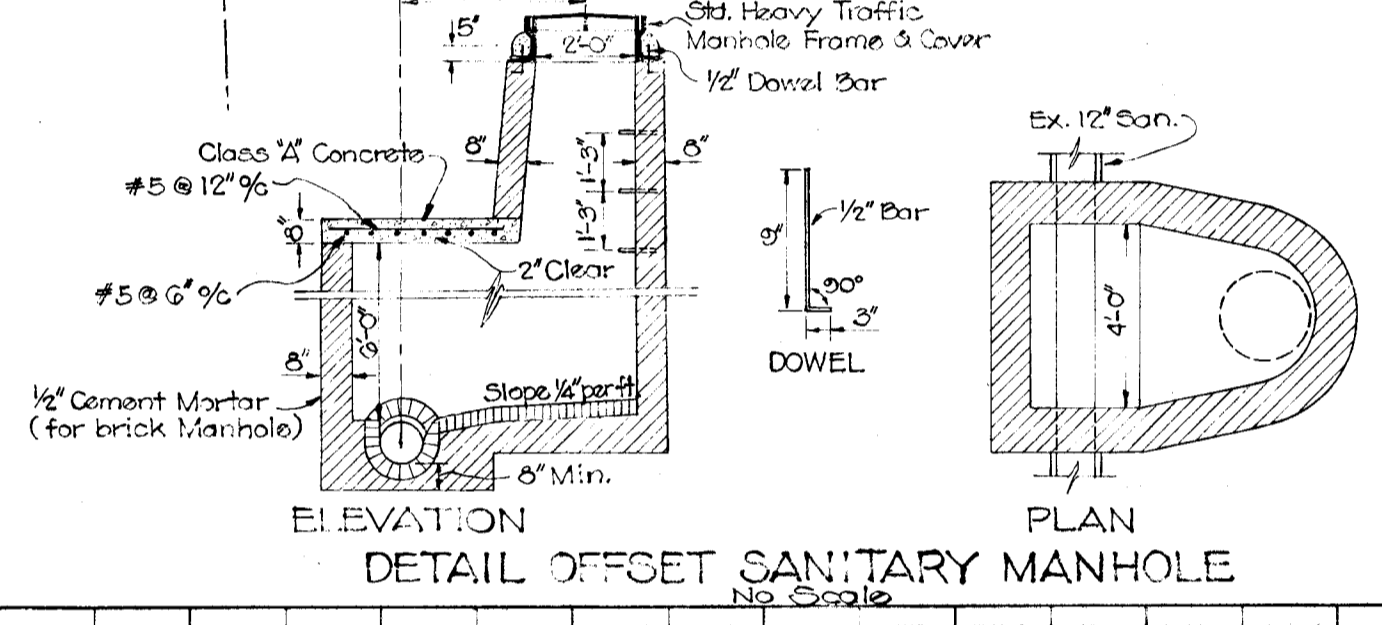
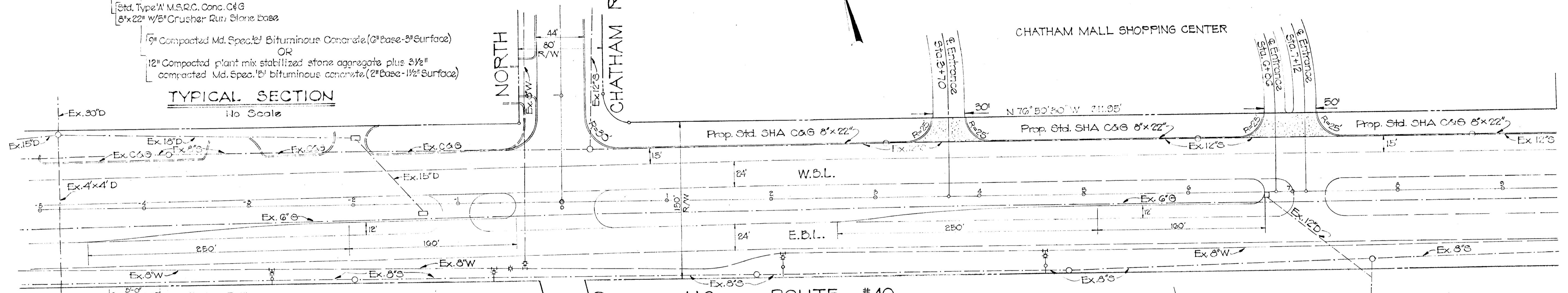
PROFILE  
 SURVEYED BY: [Name]  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]  
 DATE: [Date]  
 NO. [Number]



Std. Type 'A' M.S.R.C. Conc. C&G  
 8"x22" 1/5" Crusher Run Stone base  
 9" Compacted Md. Spec. 1 1/2" Bituminous Concrete (2" Base-3" Surface)  
 OR  
 12" Compacted plant mix stabilized stone aggregate plus 3/4" compacted Md. Spec. 1 1/2" bituminous concrete (2" Base-1 1/2" Surface)

TYPICAL SECTION  
 No Scale

Note: Paving construction shall be done in accordance with the Howard County Road Construction Code & Std. Specifications.



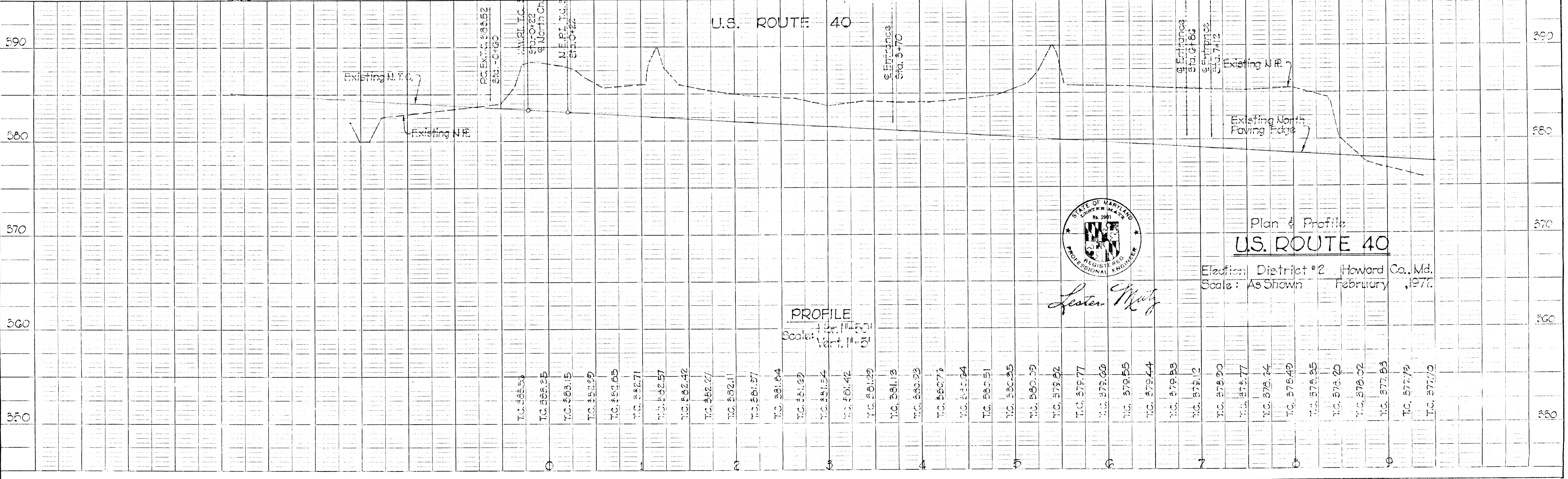
DETAIL OFFSET SANITARY MANHOLE  
 No Scale

- NOTES:
1. Walls and bottom shall be Brick or Plain Class 'A' Concrete poured in place. Invert shall be vitrified brick on edge for intercepting sewers.
  2. Thickness of walls to be increased to 12" 12'-0" below underside of frame.
  3. Walls shall be 12" thick throughout where directed.
  4. Top 4" of walls shall be brick masonry.
  5. Apply two coats of a waterproof Bitumastic Compound over cement mortar.

DEPARTMENT OF PUBLIC WORKS  
*S. M. McNeill* 2/26/73  
 CHIEF, BUREAU OF HIGHWAYS DATE

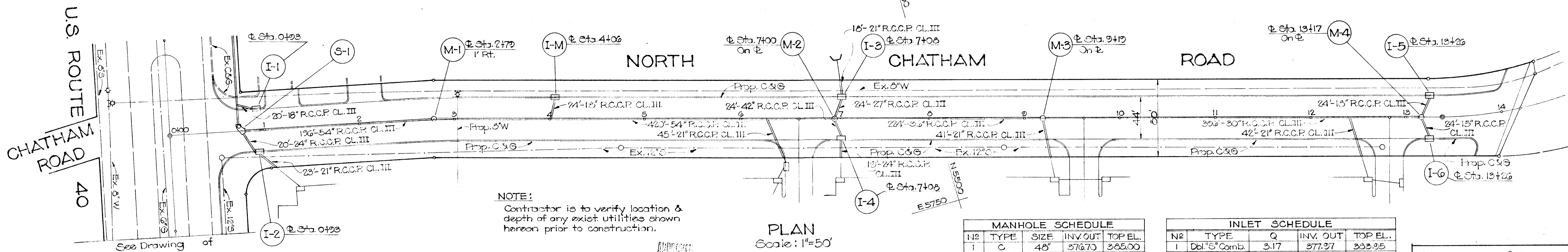
OFFICE OF PLANNING & ZONING  
*Lester M. [Name]* 2/16/73  
 CHIEF, DIVISION OF LAND DEVELOPMENT & TRANSPORTATION PLANNING DATE

NOTE:  
 Existing Sanitary Sewer Manholes to be modified as an offset manhole so as not to conflict with the proposed curb & gutter. (See Detail this sheet)  
 Howard County Bureau of Water and Sewer to be notified seven days prior to undertaking work.



Plan & Profile  
**U.S. ROUTE 40**  
 Elevation: District #2 Howard Co., Md.  
 Scale: As Shown February, 1973

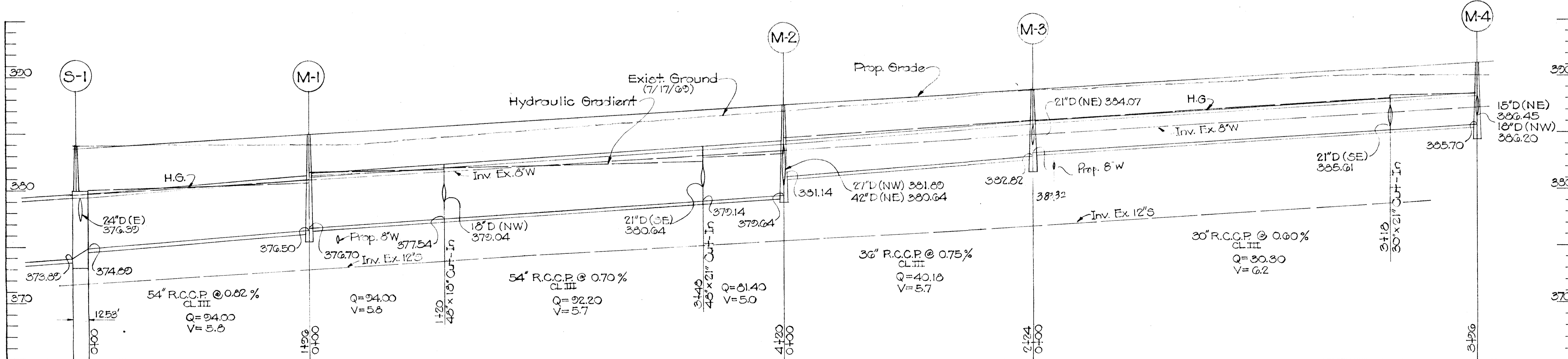
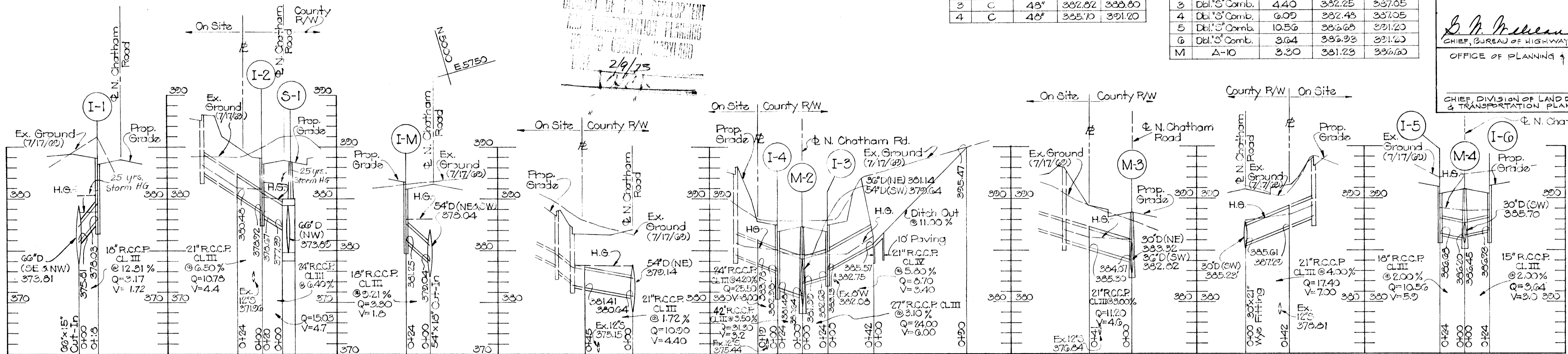
PROFILE  
 Scale: 1" = 10'  
 Vert. 1" = 2'



IN#	TYPE	SIZE	INV. OUT	TOP EL.
1	C	48"	376.70	385.00
2	C	48"	380.14	387.55
3	C	48"	382.82	388.80
4	C	48"	385.70	391.20

IN#	TYPE	Q	INV. OUT	TOP EL.
1	Dbl. 5" Comb.	3.17	377.37	383.95
2	Dbl. 5" Comb.	4.34	378.67	383.25
3	Dbl. 5" Comb.	4.40	382.25	387.05
4	Dbl. 5" Comb.	6.09	382.45	387.05
5	Dbl. 5" Comb.	10.56	383.68	391.20
6	Dbl. 5" Comb.	3.64	386.23	391.20
M	A-10	3.30	381.23	396.60

DEPARTMENT OF PUBLIC WORKS  
*S. H. McKeand* 2/26/79  
 CHIEF, BUREAU OF HIGHWAYS DATE  
 OFFICE OF PLANNING & ZONING  
 CHIEF DIVISION OF LAND DEVELOPMENT & TRANSPORTATION PLANNING DATE

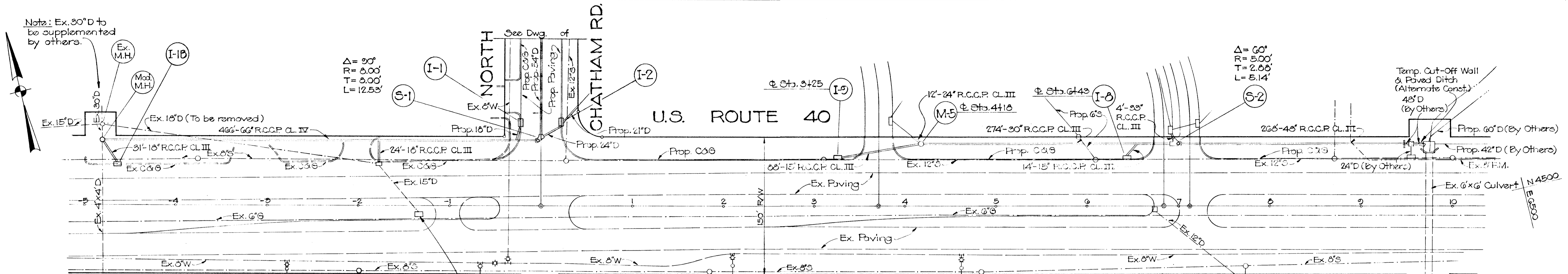


STORM DRAINS  
 PLAN & PROFILE  
**NORTH CHATHAM ROAD**  
 ELECTION DIST. NO 2  
 HOWARD CO., MARYLAND  
 Scale: 1"=50' July, 1979  
 DRAWING NO. 3 OF 4

**MCA**   
 MATZ, CHILDS & ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 1020 Cromwell Bridge Rd., Baltimore, Md.

**PROFILES**  
 Scale: Horiz. 1"=50'  
 Vert. 1"=5'

Note: Ex. 30" D to be supplemented by others.



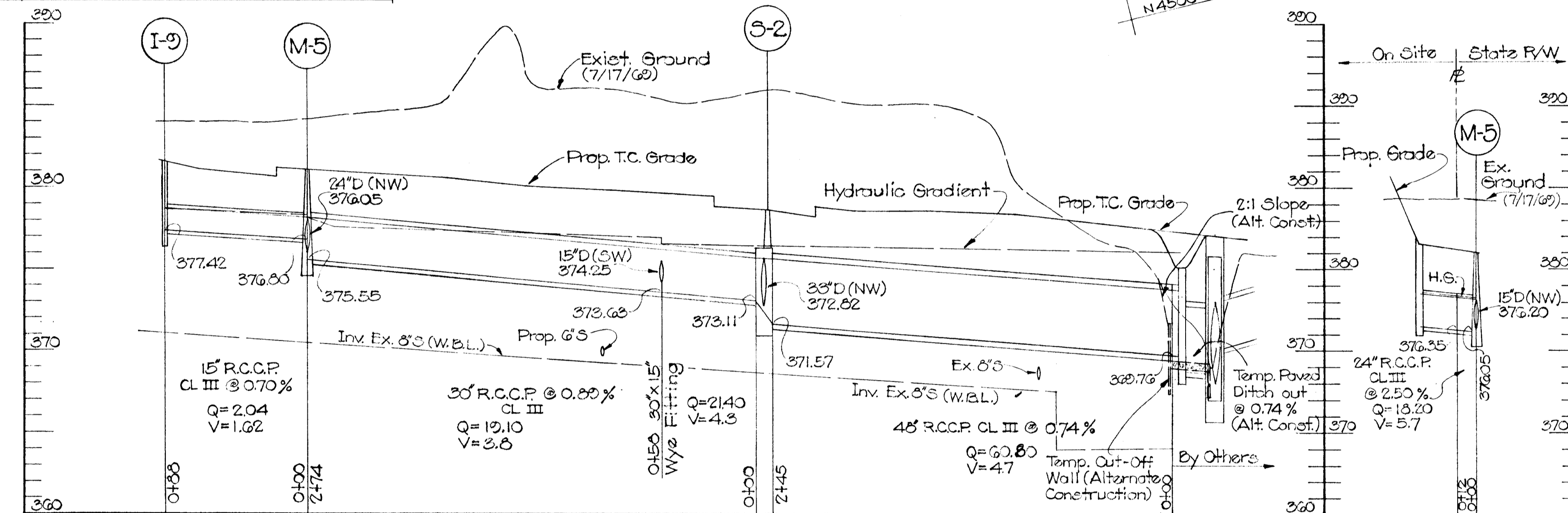
$\Delta = 90'$   
 $R = 8.00'$   
 $T = 8.00'$   
 $L = 12.53'$

$\Delta = 60'$   
 $R = 5.00'$   
 $T = 2.66'$   
 $L = 5.14'$

Note: Contractor to provide positive drainage to exist. inlet.

DEPARTMENT OF PUBLIC WORKS  
*G. N. Meland* 2/26/73  
 CHIEF, BUREAU OF HIGHWAYS DATE  
 OFFICE OF PLANNING & ZONING  
 CHIEF, DIVISION OF LAND DEVELOPMENT & TRANSPORTATION PLANNING DATE

U.S. ROUTE 40



MANHOLE SCHEDULE				
Nº	TYPE	SIZE	INV. OUT	TOP EL.
5*	Std.	48"	375.55	381.05

\* SHA MD - 388.01

INLET SCHEDULE				
Nº	TYPE	Q	INV. OUT	TOP EL.
1B	Dbl. 6" Comb.	2.94	380.51	386.60
8*	Dbl. 6" Comb.	4.62	374.87	379.80
9*	Dbl. 6" Comb.	2.04	377.42	381.60

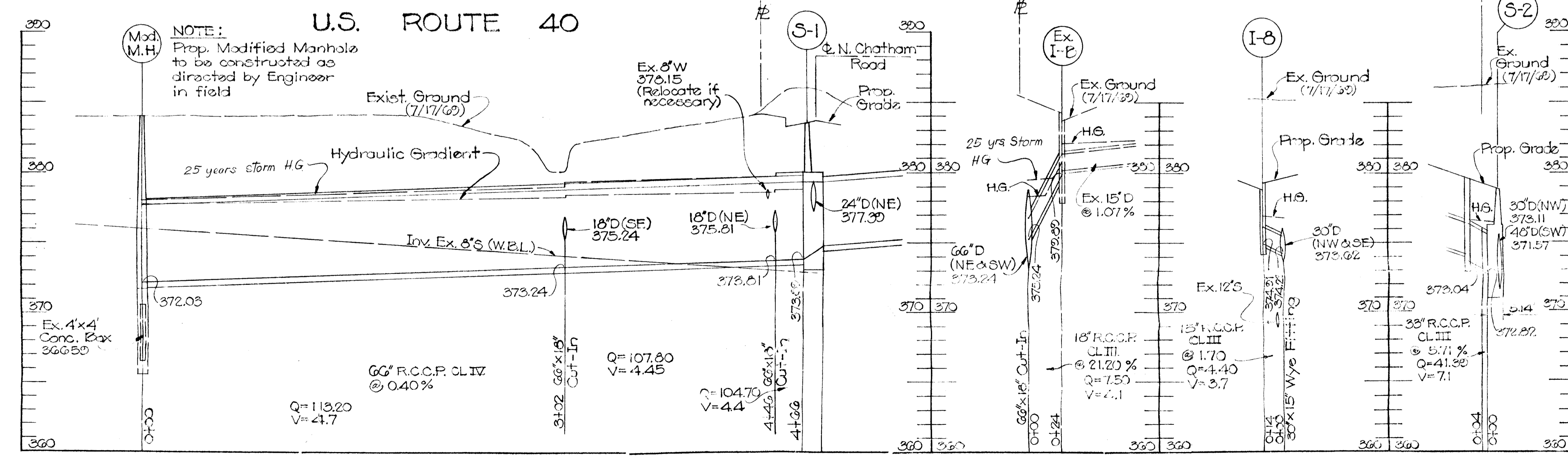
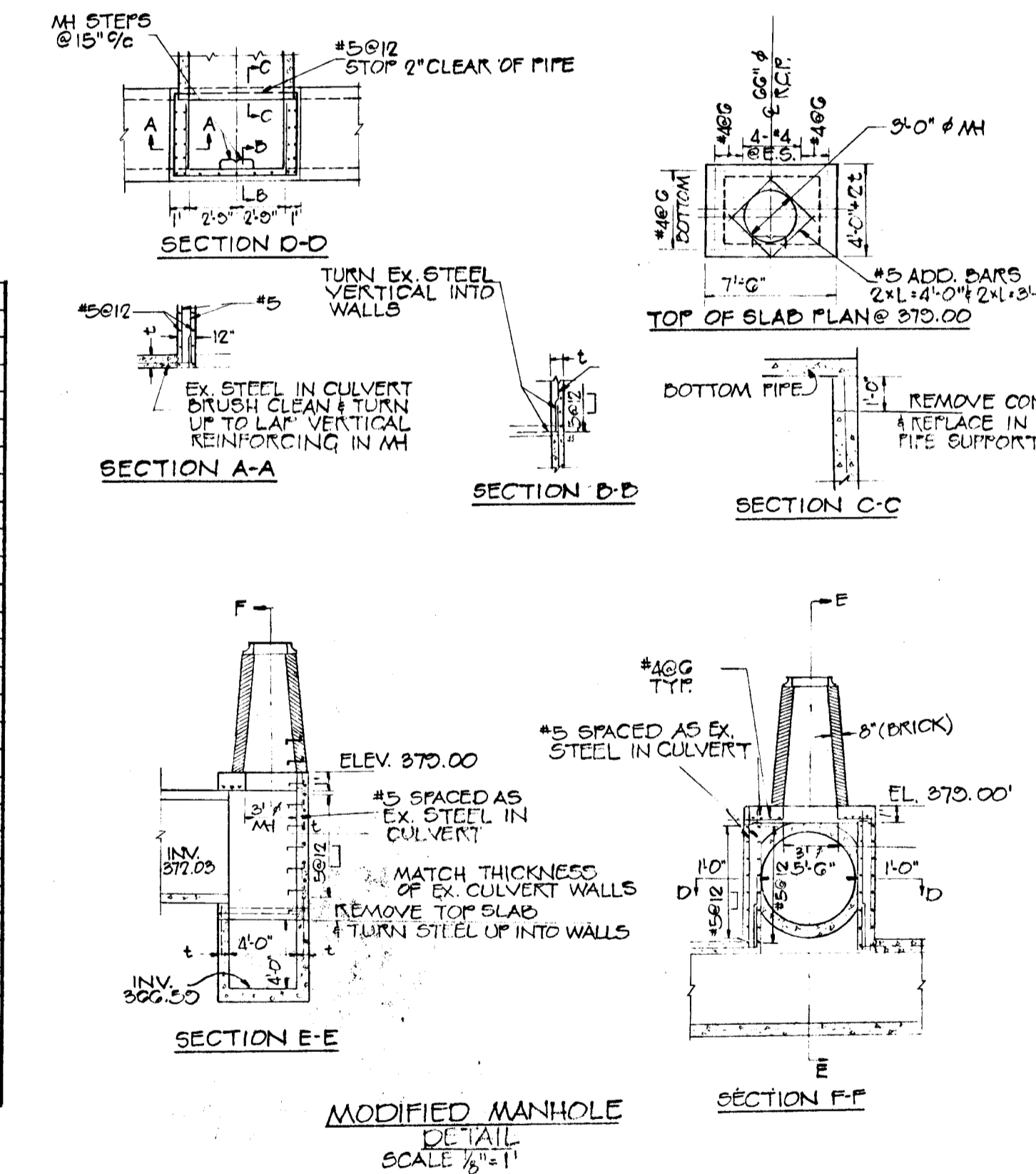
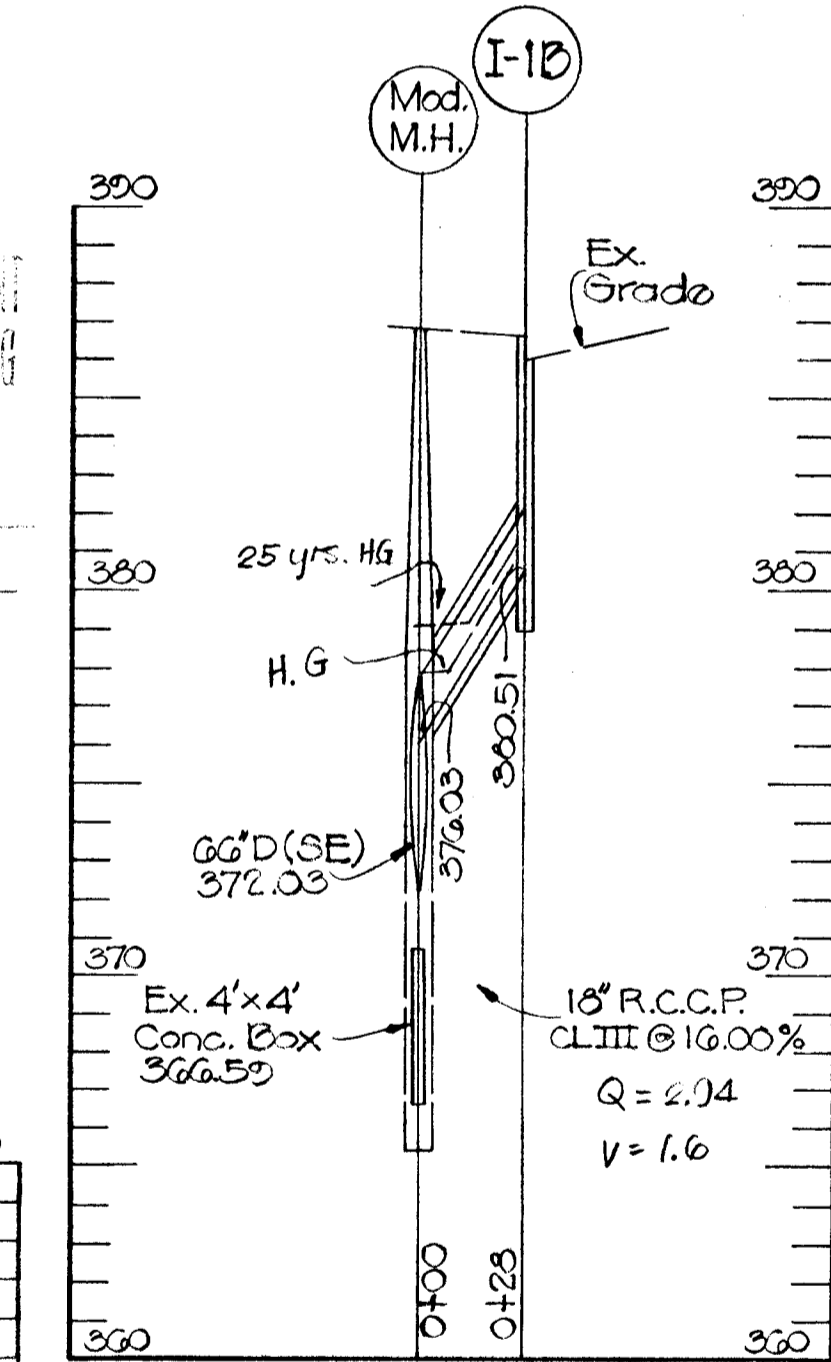
\* SHA MD - 376.51

STRUCTURE SCHEDULE				
Nº	TYPE	SIZE	INV. OUT	TOP EL.
1*	Br. Box	54" x 54"	372.35	383.85
2**	Junc. Ch.	48" x 36" x 30"	371.87	378.70

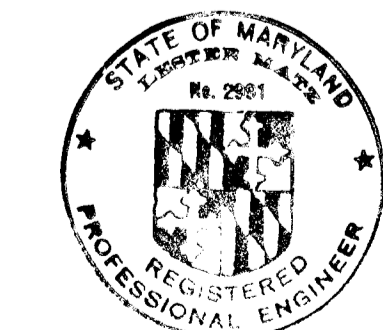
\* With Type C Manhole Stack  
 \*\* With Alternate Manhole Stack

NOTE:  
 Contractor is to verify location & depth of any exist. utilities shown hereon prior to construction.

DATE: 2/9/73



STORM DRAINS  
 PLAN & PROFILE  
 U.S. ROUTE 40  
 ELECTION DIST. Nº 2 HOWARD CO., MARYLAND  
 Scale: 1" = 50'  
 July, 1972  
 DRAWING NO. 4 OF 4



Lester Matz

MCA   
 MATZ, CHILDS & ASSOCIATES, INC.  
 CONSULTING ENGINEERS

1020 Cromwell Bridge Rd., Baltimore, Md.