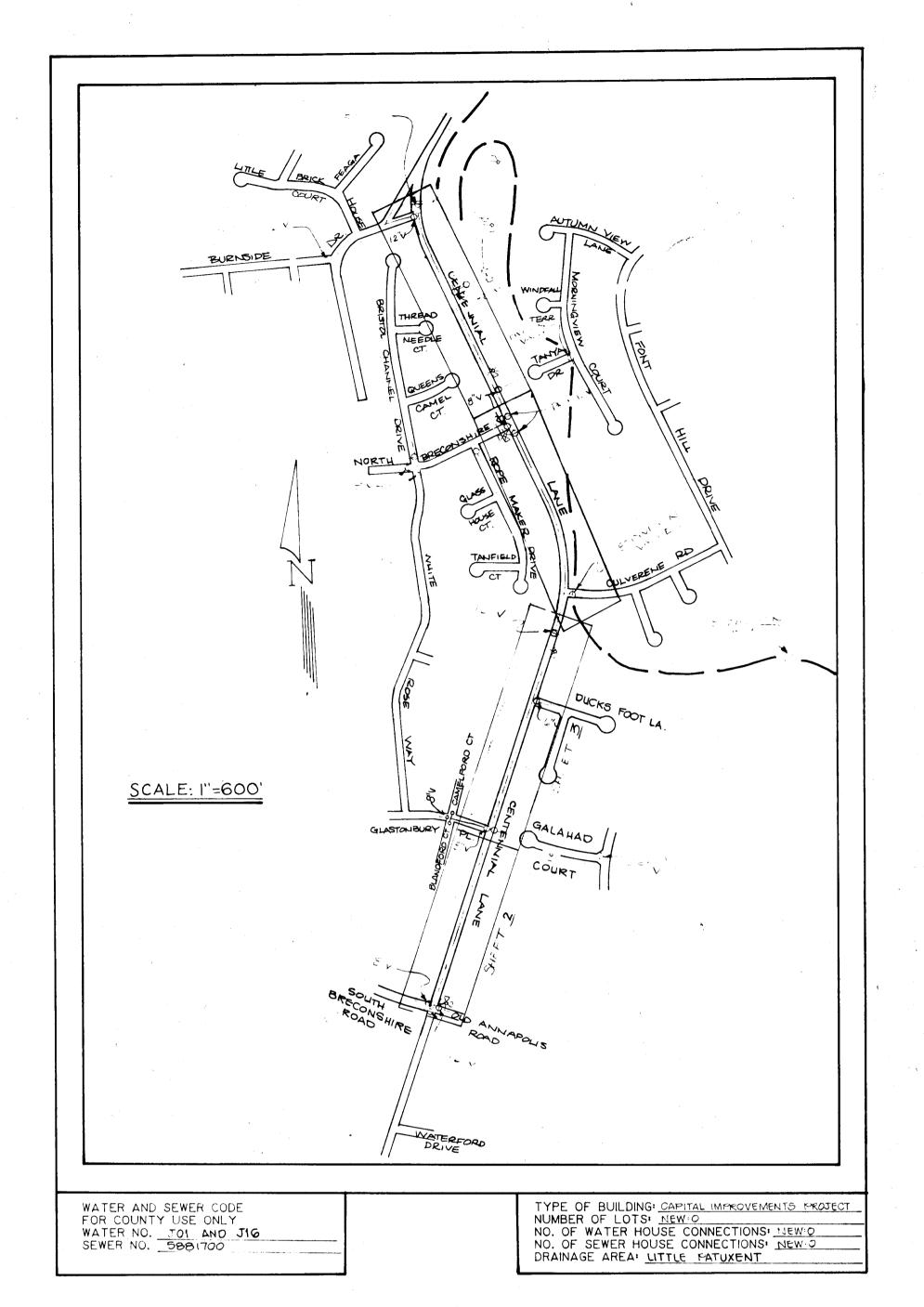
GENERAL NOTES FOR WATER AND SEWER MAIN CONSTRUCTION

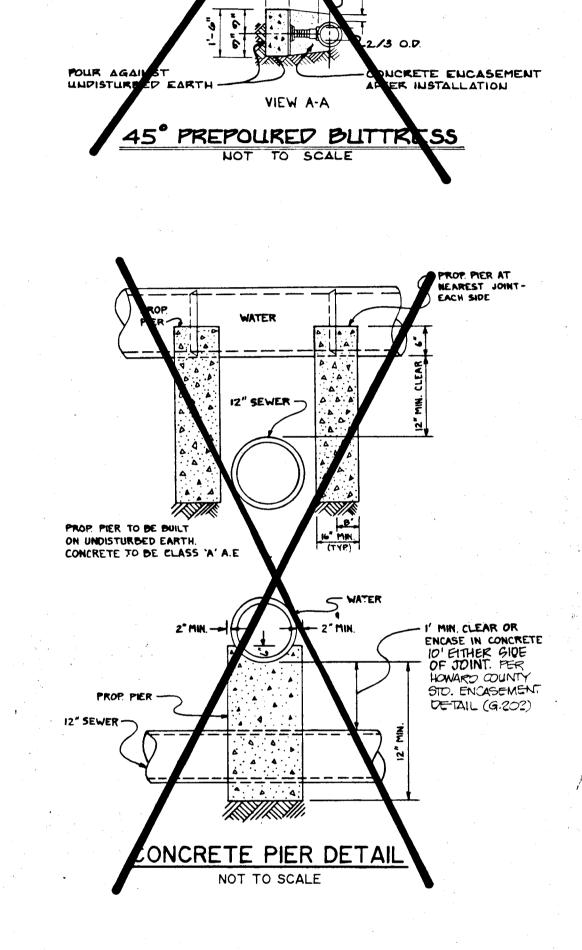
- 1. Approximate locations of existing utilities are shown. The Contractor shall take all necessary precautions to protect the existing utilities and maintain uninterrupted services, any damage to existing utilities shall immediately be repaired to the satisfaction of the Engineer at the Contractor's expense.
- 2. Clear all utilities by a minimum of 6". Clear all poles by 2' 0" minimum or tunnel as required. The owner has contacted the utilities companies and has made arrangements for bracing of poles as shown on the drawings. In the event the Contractor's work requires the bracing of additional poles, any cost incurred by the owner for the bracing of additional poles or damages shall be deducted from money owed the Contractor. The Contractor shall coordinate with the utility companies to schedule the bracing of the poles.
- 3. Trees and shrubs are to be protected from damage to maximum extent.
- 4. For details not shown on the drawings, and for materials and construction methods, use Howard Sounty Design Manual, Volume IV, Standard Specifications and Details for Construction. The Contractor shall have a copy of Volume IV on the job.
- 5. Schtractor shall locate existing utilities a minimum of two (2) weeks in advance of construction operations in the vicinity of proposed utilities at his own expense.
- 6. Untractor 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 Contractor Services 850-4620 Baitimore Gas & Electric — Underground Damage Control — 859-9004
- Raitimbre Gas & Electric Trouble Shooting 298-9001
- , Miss (J.tility 1—559—0100) Colonia: Pipeline Company - 795-1390
- Bureau of Utilities, Howard County Dept. of Public Works 313-4900 Chesapeake & Fictomac (C&F) Telephone Company - 1-80(-257-7777
- 7. All water mains to be 2.1.F. Class 52, unless otherwise noted. All sewer mains to be SSRX, RSSF, VCFX, or PVC.—All pipe elevations are shown as invert elevations.
- S. Top of all water mains to have a minimum of 3.5' cover unless otherwise noted.
- Valves adjacent to fees shall be strapped to tees.
- (1) At fittingh shall be buttressed or lanchared with concrete in accordance with the standard Details unless otherwise provided for on the drawings.
- 11. Bury line elevations on firé hydrants shall be set to the elevations shown on the drawings. All fire hydrants shall be strapped and buttressed with concrete in accordance with Standard Detail. Will — Sidewalk adjacent to purb. Soil around fire hydrants to be compacted in accordance with Section 1003 of the Standard Epecifications.
- 12. Homes currently served by outside meters shall be reconnected to these meters.
- 13. The Dontractor shall not operate any water main valves on the existing system.
- 14. The Contractor shar do everything possible to minimize the length of time for water service shut down. In no case shall the Water Main be shut down for more than six (6) hours at a time.
- 15. It will be the responsibility of the Contractor to notify all water pustomers of the Courty, in writing, who will be without service, a minimum of 48 nours in advance of the schedule shutdown.
- 16. The Contractor shall notify the Bureau of Utilities of Howard County, in writing, at least one (1) week prior to making any tie—in to the existing system.
- 17. All roadway valves and manholes shall be adjusted to finished grade by the Contractor. The price for adjusting existing roadway valves and manholes shall be included in the price bid for "Adjusting Existing Manheles" and "Adjusting Existing" koadway /aives"
- 18. 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.
- 19. TBA denotes "To Be Abandoned". TBR denotes "To Be Removed".
- 20. All horizontal controls are based on Maryland State Coordinates. All vertical controls are based on J.S.G.S. data.
- 21. Refer to Howard County Field Books: 118; 119; 138 and 139, for information regarding this project.
- 22. Six Howard County Control Stations have been used to survey this project: 3040001; 3140001; 3140002; 3140005; 3240005 and 324006.
- 23. Manholes shall be 4'-0" inside diameter unless otherwise noted.
- 24. Contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole
- 25 Manholes shown with 12" and 16" walls are for brick manholes only.

	MATE	RIALS	LIST	J. J.				
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ITEM				ES	TIMATE	D C	NAU	TITY
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-G"-WHE		·				<u> </u>	L.F	
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1 11110						Š	t	•
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-8" V			-			2	ĒA.	_
6" V (FH)						!	EA.	
-4" Brick AH						+	EA.	•
Pologo V	alvaa						EA:	_
6"X 8 " R						+	EA.	
Ö" X 12" T						?	ĒA.	
-6" × 12" T	(14)					1	EA.	
-12" - 1/16" H						0	EA:	
6" 10" VE	,					-	EA.	
Buttresses	•					-4-	EA.	
-Propoured B						4	EA.	
-6" X-6" Top	ping							
-Sleeve and				· · · · · · · · · · · · · · · · · · ·		<u> </u>	EA.	-
Sanilary Sew Sanilary Sew	er Manha	oles Nec				2	EA.	
(VF>12')	ei Midilli	1105,				65	VF	
12" Sewer P	pe					<u>```</u>	L.F	. .
8" Sewer Pi	ne.					213		





EX. 12"W-5

CONNECT TO EXISTING

(3/8" MIN. THICKNESS) TO FIT CONTOUR OF PIPE -

PREFORMED BEARING PAD

CENTENNIAL LANE

WATER AND SEWER CAPITAL PROJECT No. W-8156 CONTRACT No. 24-1726-B

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

CHIEF, BUREAU OF ENGINEERING DATE CHIEF, UTILITY DESIGN DIVISION DATE



RESTORATION SCHEDULE

98+50 - 100+60 Bituminous Concrete

Type of Material

DRN: STAFF CHK: JBM PROJ. # 87001-00 REVISION

TITLE SHEET

600' SCALE MAP NO. _

CENTENNIAL LANE WATER AND SEWER

CAPITAL PROJECT NO. W-8156, CONTRACT NO. 24-1726-B ELECTION DISTRICT No. 2

Maintenance of Traffic and sediment control devices are in place and operational prior to construction of sewer mains and appurtenances.

SEQUENCE OF SEWER MAIN RELOCATION BASELINE STATION 98+50 TO 100+60 SEE SHEET 243 OF 3

CONSTRUCTION SEQUENCE FOR THE MATERIALD SEWER MAIN RELOCATION

Construction and connection to the proposed

1. Construct proposed sanitary manhole 2 and 8" sanitary main between manhole 1, 0+05 to manhole 2, 0+18.

shall be implemented in sequence, as follows. This sequence assumes all Phase I

- 2. Temporarily place stopper in existing 8" main entering existing sanitary manhole 9359. Construct proposed sanitary manhole 1 over existing 8" main. Make connection to proposed 8" main. Reform channel as required per Howard County Standards. Remove existing 8" sanitary main where required to construct proposed
- 3. Remove the existing sanitary manhole 9358. Remove the existing sanitary manhole 9359. Maintain line and grade of existing pipe and extend to proposed pipe. Test and place main in service. Remove existing 8" sewer main from baseline station 98+50 to baseline station 100+60.

SEQUENCE OF WATER MAIN RELOCATION BASELINE STATION 101+50 SEE SHEET 3 OF 3 . Construct the proposed 8" water main. 2. Tést and chtorina

ennial Lane, At baseline station IQ Glastonbury Road and an Salve west of the intersection Camelford Courts. Make connections. Open all other y back in service.

4. Remove existing 8" watermain where ≠equ o construct connections. Abandonment ashall occur after new mains are placed in _

ALVES LISTED TO BE CLOSED ARE TO BE CLOSED FOR "TIE-IN" PURPOSES ONLY. THESE VALVES ARE NOT TO BE CLOSED DURING FULL CONSTRUCTION OPERATIONS.

SEQUENCE OF WATER MAIN RELOCATION BASE NE STATION 103+00 TO 117+00 SEE SHEET 344 OF 5

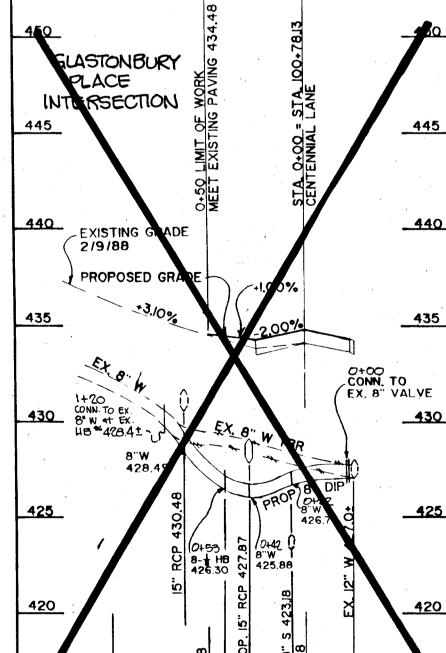
truct the proposed 12" water main. At baseline station 109+60 install 6" x 12" tee,

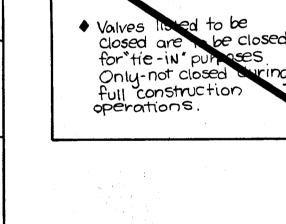
2. Construct the presoured buttresses at the bends at baseline station 6+50 (station 13+70 of d 12" water main) and at baseline station 0+10 of the propo the proposed 12" wate

3. Test and chlorinate the new

4. Close the valves at Centennial Lane, as at south Breconshire Drive; at Galahad Court, ce; and at north Breconshire. Cut the Centennial Lane: at Old Annapolis baseline station 100+50: at existing pipe and make com valve at Ducks Foot Lare. The existing 8" division valve water main to existing all other valves and put the main

abandon the existing 12" water main from baseline tion 117+00. Remove existing 12" water mains where required to construct connections. Abandonment shall occur after new mains are placed in service





c0075C01

BLOCK NO. ,

HOWARD COUNTY, MARYLAND

1 OF 3

SHOWN

