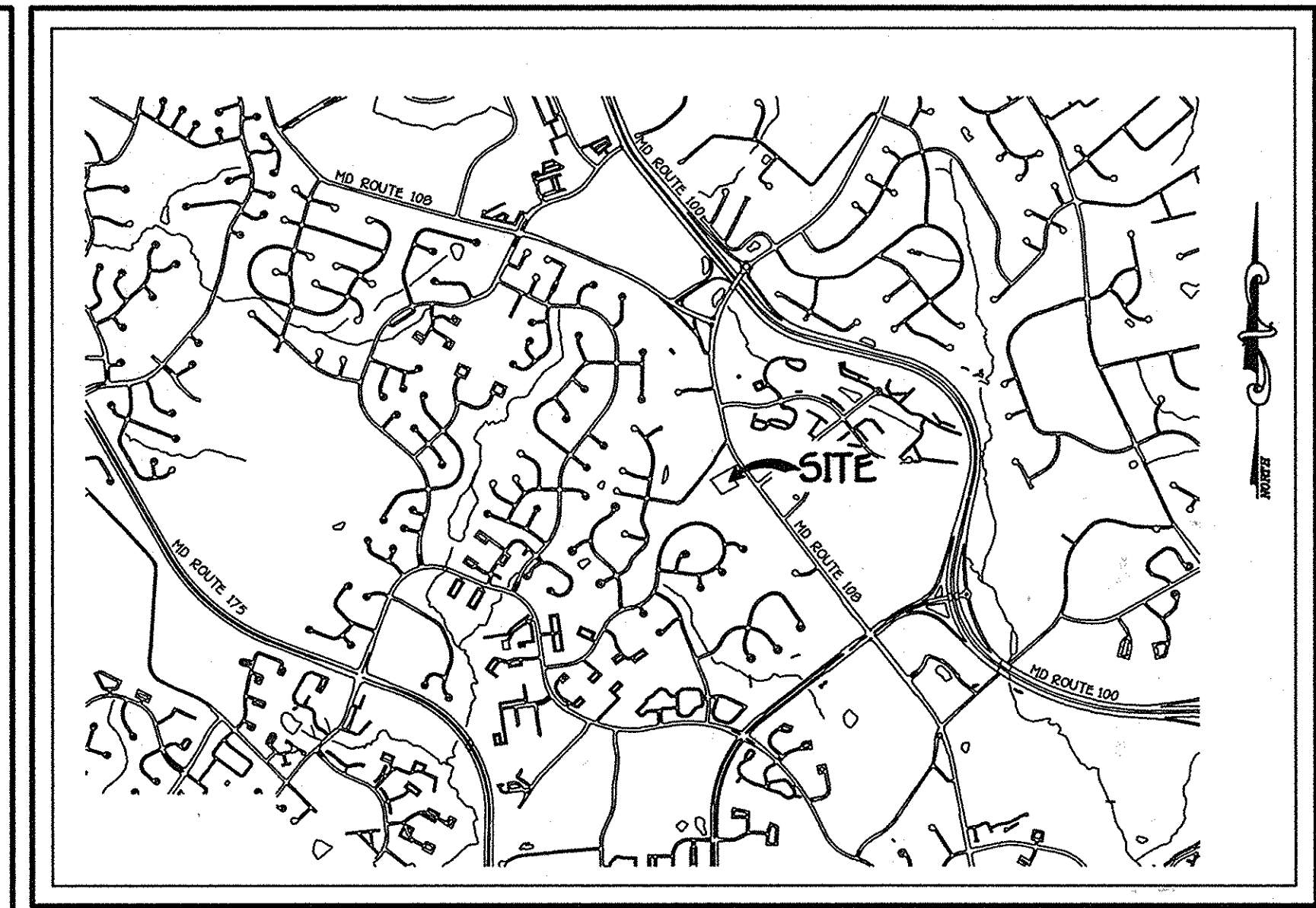
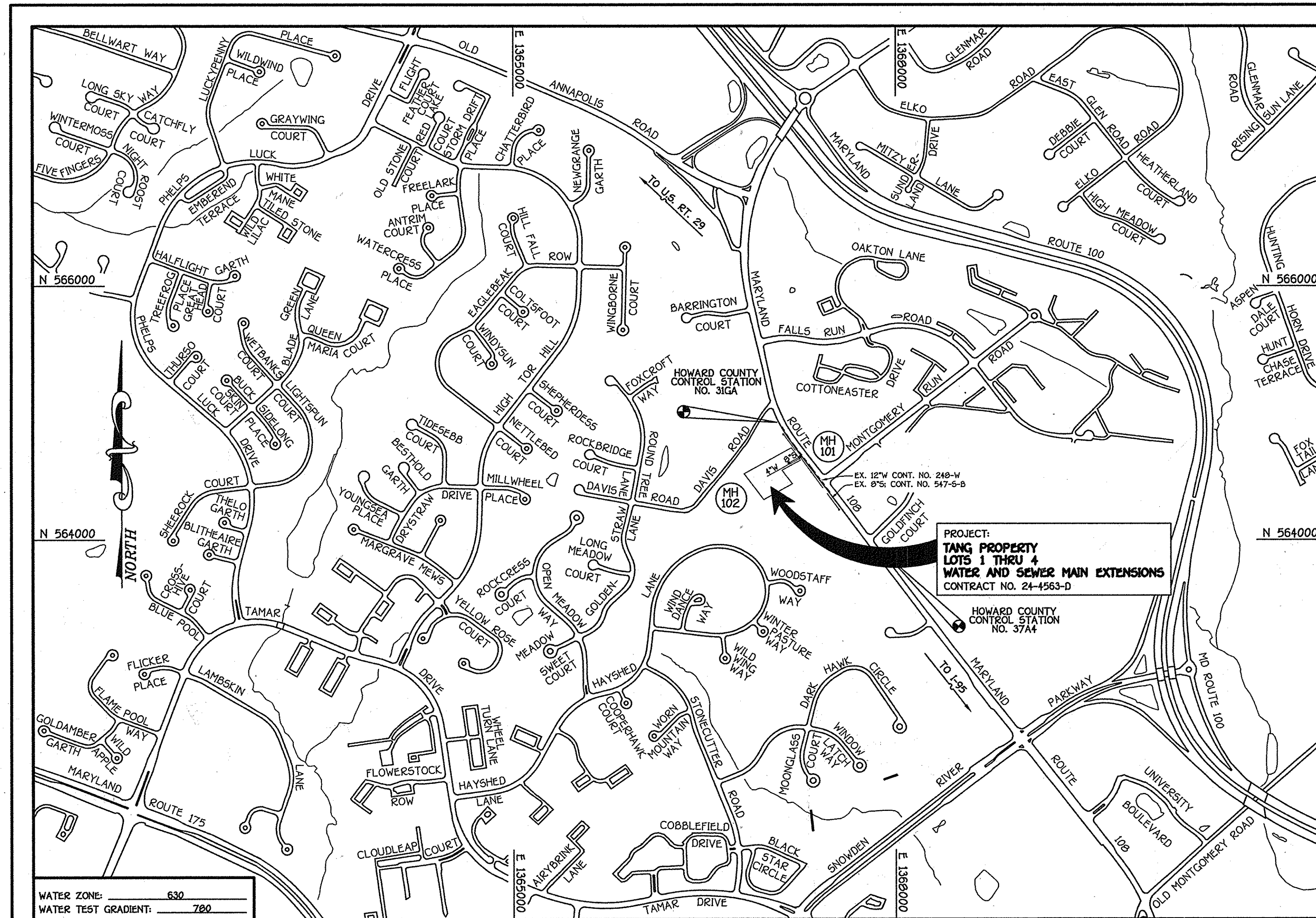


QUANTITIES				
ITEM	ESTIMATED	QUANTITIES	AS-BUILT	SUPPLIER
			TYPE	
6" SEWER	10 L.F.			
4" SEWER	10 L.F.		MJ	
CLEAN-OUT	4 EACH			
4" WATER	320 L.F.	322 L.F.	4" DIP	
1-1/2" W.C.	50 L.F.	57 L.F.	K COPPER	
12"x4" TAPPING SLEEVE	1 EACH	1 EACH		
4" TAPPING VALVE	1 EACH	1 EACH	MULLER	
1/32" H.B.	1 EACH	1 EACH	MJ	
1-1/2" DRAIN	1 EACH	1 EACH		
4" PLUG & BUTTRESS	1 EACH	1 EACH	MJ	
1" SINGLE OUTSIDE METER SETTING		4 EACH		
NAME OF UTILITY CONTRACTOR:				
SURVEY & DRAFTING DIVISION AS-BUILT DATE:				



LOCATION MAP
SCALE: 1" = 200'

GENERAL NOTES

- PART I:**
- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 - TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON OR ABOUT OCTOBER, 2006 BY FISHER, COLLINS & CARTER, INC.
 - HORIZONTAL AND VERTICAL CONTROLS: THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/'91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 31GA AND NO. 37A4. SEE THIS SHEET FOR BENCHMARK INFORMATION. ALL VERTICAL CONTROLS ARE BASED ON NAVD '83. VERTICAL CONTROLS ARE BASED ON TRAVERSE POINT NO. 7006; A REBAR & CAP SET ALONG THE SOUTH SIDE OF MONTGOMERY ROAD, ELEV. 515.17.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 9'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF THE ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
 - 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 (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
 - WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL (S) AT THE LOCATIONS OF THE TEST PITS. 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.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - AT&T 1-800-252-1133
 - BGE (CONSTRUCTION SERVICES) 410-650-4620
 - BGE (EMERGENCY) 410-685-1400
 - BUREAU OF UTILITIES 410-313-4900
 - COLONIAL PIPELINE CO. 410-795-1390
 - MISS UTILITY 1-800-257-7777
 - STATE HIGHWAY ADMINISTRATION 410-531-5933
 - VERIZON 1-800-743-0033/410-224-9210

TYPE OF BUILDING:	RESIDENTIAL: SINGLE FAMILY DETACHED
NUMBER OF LOTS:	4 (4 BUILDABLE)
NO. OF WATER HOUSE CONNECTIONS:	4
NO. OF SEWER HOUSE CONNECTIONS:	4
DRAINAGE AREA:	PATAPSCO
TREATMENT PLANT:	LITTLE PATUXENT WASTEWATER TREATMENT PLANT, SAVAGE, MARYLAND

VICINITY MAP
SCALE: 1" = 600'

PLAN REFERENCE NUMBERS:
F-08-066
(RECORD PLAT)

DEVELOPER'S CERTIFICATION
I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
Paul W. Keibel FOR: *Ms. Jennie TANG* 06-17-08
SIGNATURE OF DEVELOPER DATE

ENGINEER'S CERTIFICATION
I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Paul W. Keibel 06/17/08
SIGNATURE OF ENGINEER DATE

GP-08-069
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: *John R. Robertson* 7/10/08
HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND AS SHOWN ON THESE PLANS.
Paul W. Keibel FOR: *Ms. Jennie TANG* 06/17/08
SIGNATURE OF DEVELOPER DATE

CONTRACT NO. 24-4563-D
TANG PROPERTY
LOTS 1 THRU 4
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEVELOPER
MS. JENNIE TANG & MR. KHANH G. LY
9506 HEARTLAND PLACE
RANCHO CUCAMONGA, CALIFORNIA 91730-7900

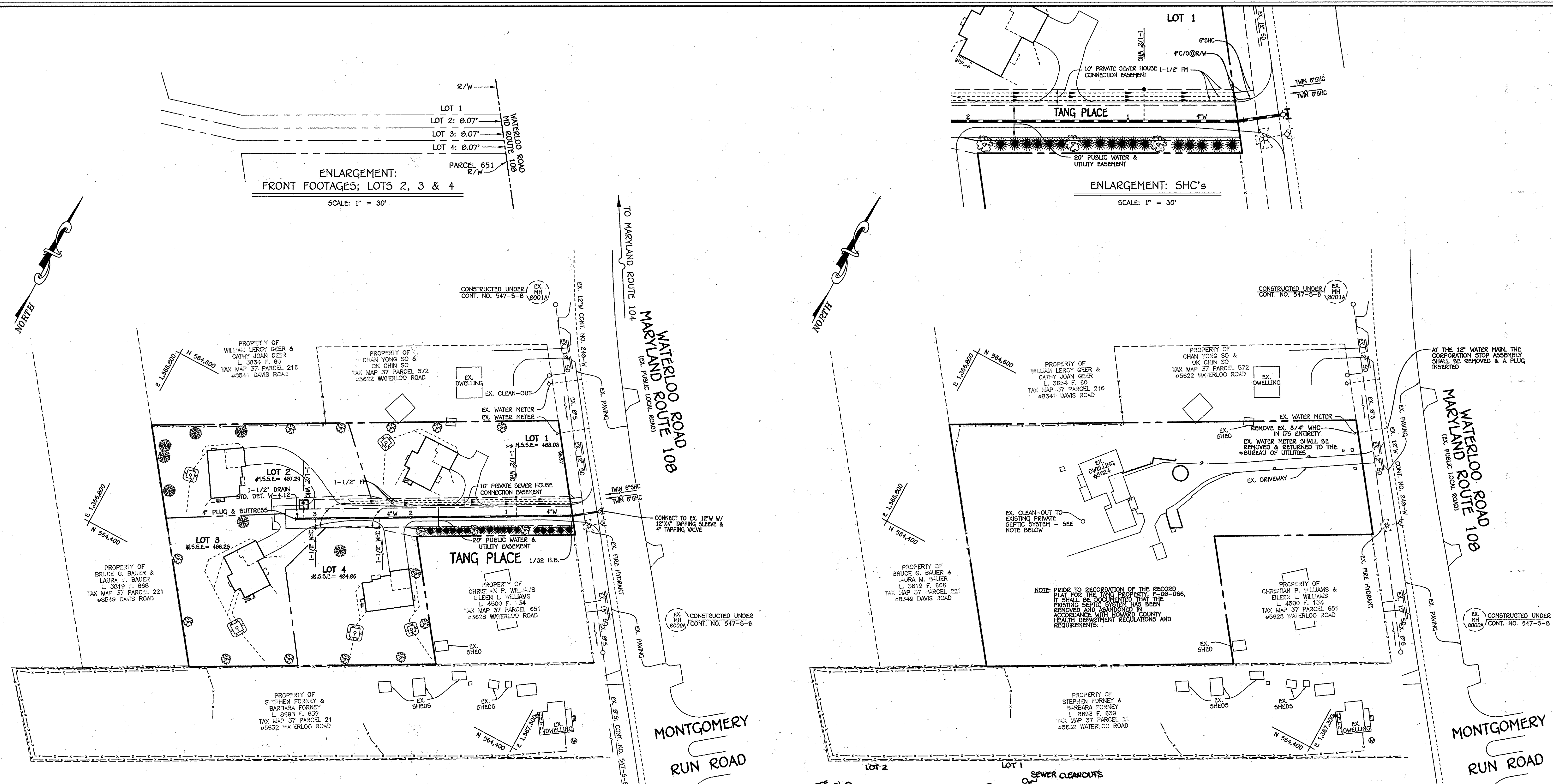
BENCHMARK INFORMATION

B.M.#1	- HOWARD COUNTY CONTROL STATION #31GA (NAD '83) LOCATED ALONG THE WEST SIDE OF MARYLAND ROUTE 100, APPROX. 14.5' OFF THE EDGE OF PAVING, ROUGHLY IN FRONT OF HOUSE #56201 N 564.925.7547 E 1.367.067.6509 ELEVATION = 511.730
B.M.#2	- HOWARD COUNTY CONTROL STATION #37A4 (NAD '83) LOCATED ALONG THE EAST SIDE OF MARYLAND ROUTE 100, APPROX. 23' OFF THE EDGE OF PAVING, BETWEEN BGE TOWERS #10 & #10D N 565.835.9101 E 1.367.971.6471 ELEVATION = 437.290

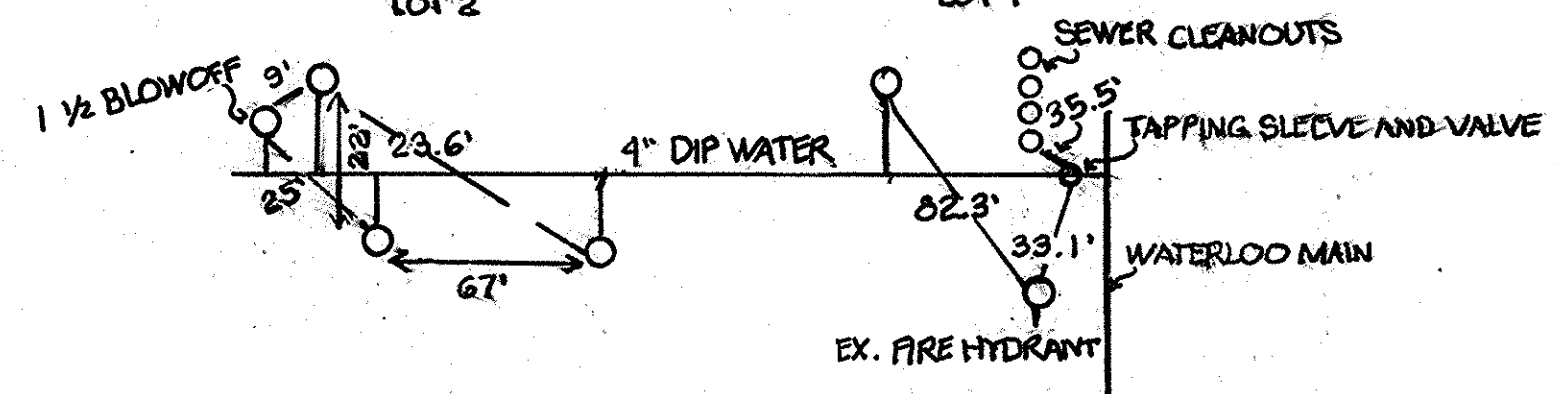
CONTRACT NO. 24-4563-D
TANG PROPERTY
LOTS 1 THRU 4
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND	FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE ELIOTT CITY, MARYLAND 21042 (410) 461 - 2995	DESIGNED BY: B.C.R. DRAWN BY: B.C.R. CHECKED BY: P.W.K. DATE: JUNE, 2009	FILED: [Stamp] TERRELL A. FISHER	WATER AND SEWER MAINS TITLE SHEET	TANG PROPERTY LOTS 1 THRU 4 CONTRACT NO. 24-4563-D SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 1 of 4
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NOTE: SEE SHEET 4 FOR & SEDIMENT & EROSION CONTROL PLAN
NOTE: SEE THIS SHEET FOR WHC ABANDONMENT PLAN

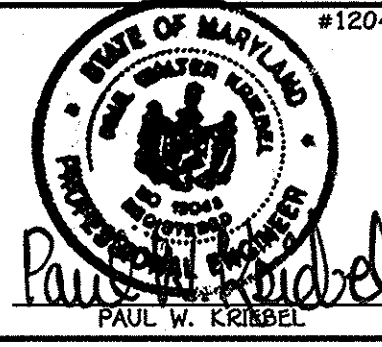


NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 2 OF 4 SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE DEPARTMENT OF PLANNING AND ZONING, ON JULY 11, 2008.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 12243 EXPIRATION DATE IS 7/16/14.



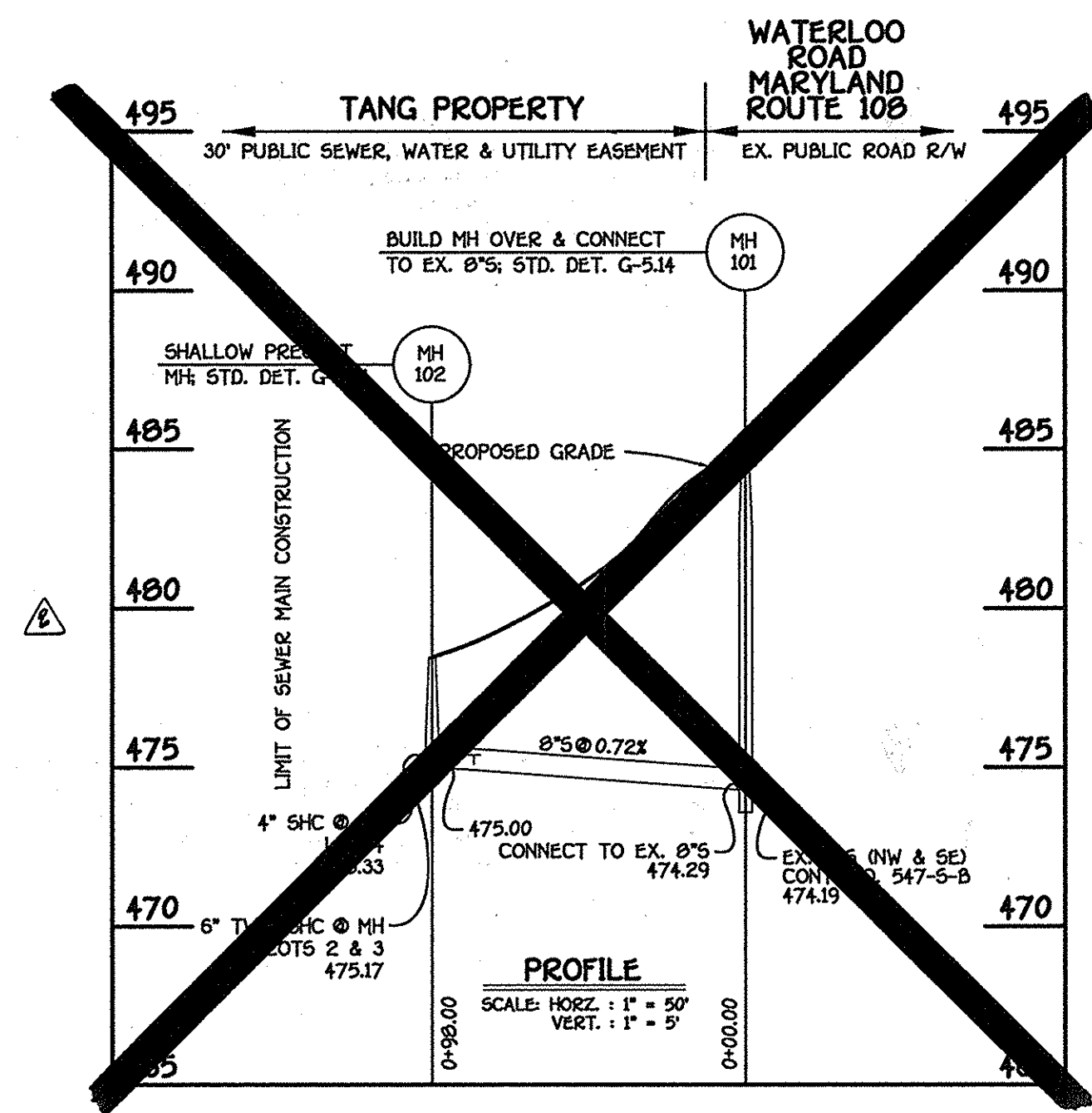
DESIGNED BY:	B.C.R.				
DRAWN BY:	B.C.R.				
CHECKED BY:	P.W.K.				
DATE:	MAY, 2013				
CLD	KCI TECHNOLOGIES AS-BUILTS	7/17/13			
BY NO.	REVISION	DATE	FILE NAME:	WATER AND SEWER MAIN EXTENSION PLAN	

WATER AND SEWER MAINS PLAN

TANG PROPERTY
LOTS 1 THRU 4
CONTRACT NO. 24-4563-D
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 4

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**8" SEWER: LOTS 1 THRU 4
TANG PLACE**

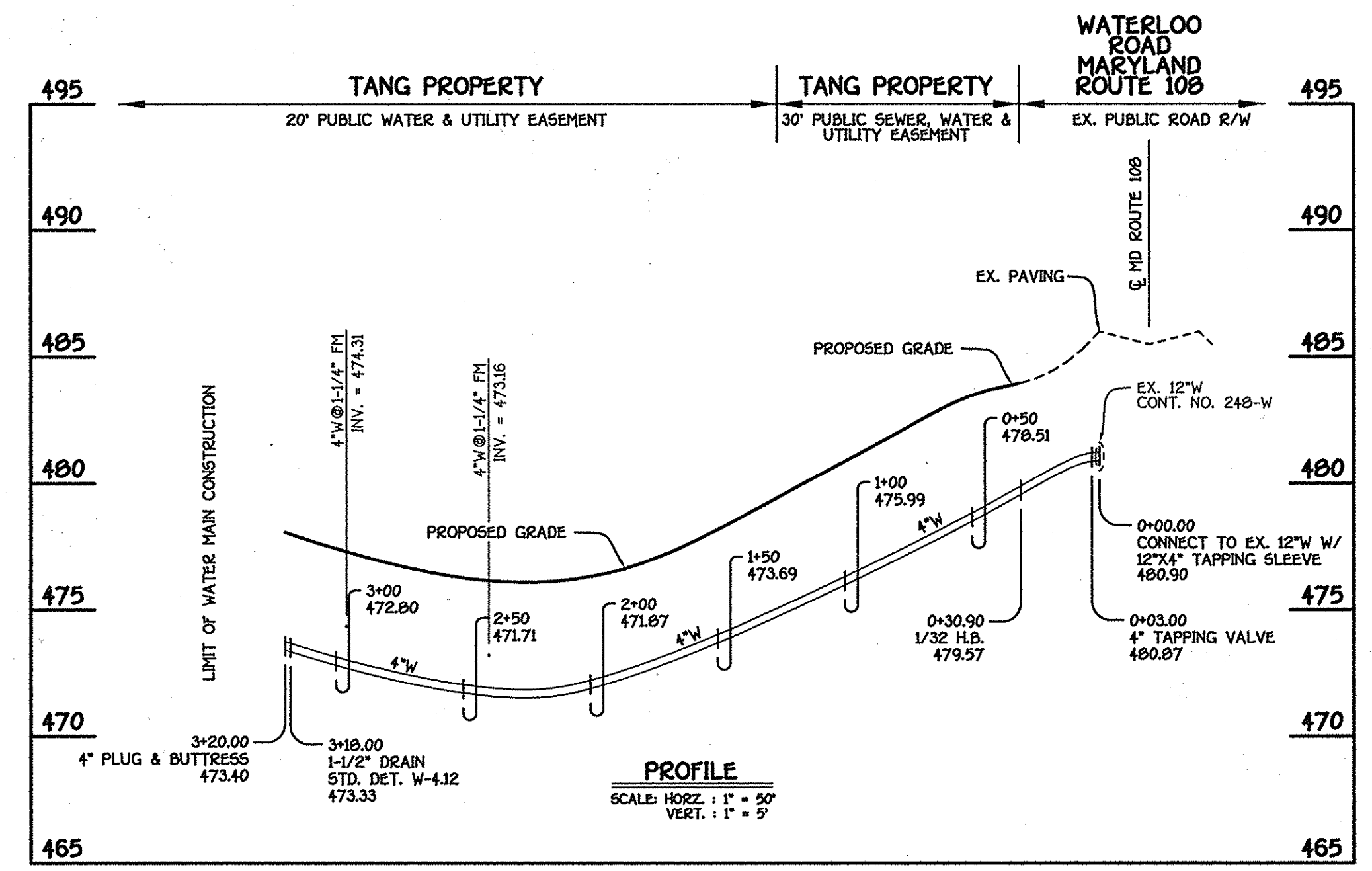
~~WHOLE TABULATION CHART~~

NO.	NORTHING	EASTING	RIM ELEVATION
101	56460.23	1367245.07	475.00*
	56460.23	1367159.27	

NOTES: 1 *SET MH RIM FLUSH W/ EXISTING GROUND.
2 **SET MH RIM FLUSH W/ PROPOSED FINISHED GRADE.

SHC INVERT @ PROPERTY LINE CHART

STATION	LOT	ELEVATION
EX. MH 8000a TO EX. MH 8001a		
0+02.50 LT.	4	472.00
0+02.50 LT.	2	472.00
1+02.24 LT.	2	477.00
1+02.24 LT.	1	479.00



**4" WATER MAIN: LOTS 1 THRU 4
TANG PLACE**

WATER MAIN TABULATION CHART

W.M. STA.	APPURTENANCE	NORTHING	EASTING
4" WATER MAIN: LOTS 1 THRU 4; TANG PLACE			
0+00.00	12"x4" TAPPING SLEEVE	564662.55	1367265.41
0+03.00	4" TAPPING VALVE	564660.73	1367263.03
0+30.90	1/32 H.B.	564643.02	1367240.02
3+18.00	1-1/2" DRAIN	564505.08	1366989.48
3+20.00	4" PLUG & BUTTRESS	564504.11	1366987.73

CONTRACT NO. 24-4563-D
TANG PROPERTY
LOTS 1 THRU 4
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Stella C. Green
7/12/08
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
Michael J. ...
7/14/08
CHIEF, DEVELOPMENT ENGINEERING DIVISION

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
1410 461 - 2095



DESIGNED BY: B.C.R.
DRAWN BY: B.C.R.
CHECKED BY: C.L.S.
DATE: JUNE, 2008
BY NO. ...
TERRELL A. FISHER

WATER AND SEWER MAINS PROFILES
600' SCALE MAP NO. 37 BLOCK NO. 1
F.C.C. WORK ORDER NO. 05026
FILE NAME: WATER AND SEWER MAIN EXTENSION PLAN

TANG PROPERTY
LOTS 1 THRU 4
CONTRACT NO. 24-4563-D
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 4

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