

GENERAL NOTES

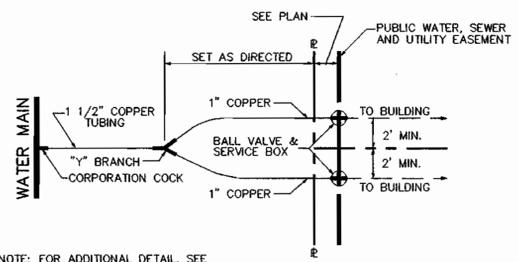
1. ALL SEWER HOUSE CONNECTIONS SHALL BE 4" PVC. ALL DUAL WATER HOUSE CONNECTIONS SHALL BE 1 1/2" COPPER TUBING FROM WATER MAIN. DUAL CONNECTIONS SHALL BE 1" COPPER TUBING. ALL SINGLE WATER HOUSE CONNECTIONS SHALL BE ONE-INCH.
2. SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH SPECIFICATION SECTION 219 AND HAWTHORNE COURT ROAD CONSTRUCTION PLANS F-00-62.

LOT NO.	INVERT EL. @ P.I.	MINIMUM CELLAR EL.	LOT NO.	INVERT EL. @ P.I.	MINIMUM CELLAR EL.
A-126	409.1	412.8	A-135	409.9	413.6
A-127	409.0	412.7	A-136	410.1	413.8
A-128	408.9	412.6	A-137	410.3	414.0
A-129	408.8	412.5	A-138	410.5	414.2
A-130	408.7	412.4	A-139	410.7	414.4
A-131	408.9	412.5	A-140	411.0	414.7
A-132	409.1	412.7	A-141	411.2	414.9
A-133	409.5	413.2	A-142	411.4	415.1
A-134	409.7	413.4	A-143	411.6	415.3

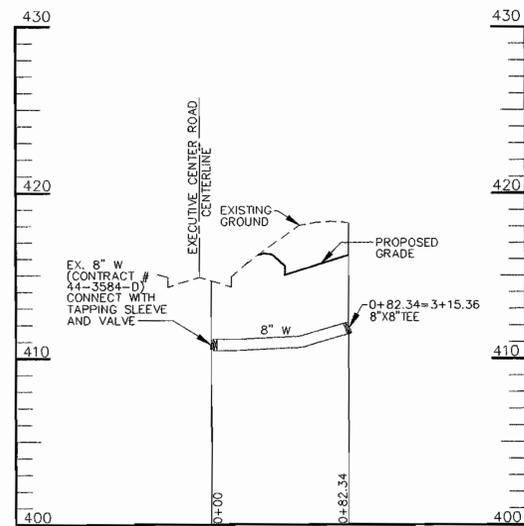
MH NO.	NORTHING	EASTING
MH-90	588224.14	1364336.85
MH-91	588265.78	1364310.37
MH-92	588102.46	1364053.54
MH-93	588306.36	1364374.20

ITEM	NORTHING	EASTING
TAPPING SLEEVE AND VALVE	588211.48	1364357.94
8" X 8" TEE @ STA. 0+52.34	588280.96	1364313.75
8" X 6" TEE TO FIRE HYDRANT	588209.94	1364202.06
CAP & BUTTRESS @ STA. 1+51.98	588318.33	1364372.52
CAP & BUTTRESS @ STA. 0+00	588111.74	1364047.64

*BASED ON INFORMATION FROM AS-BUILT CONTRACT DRAWING

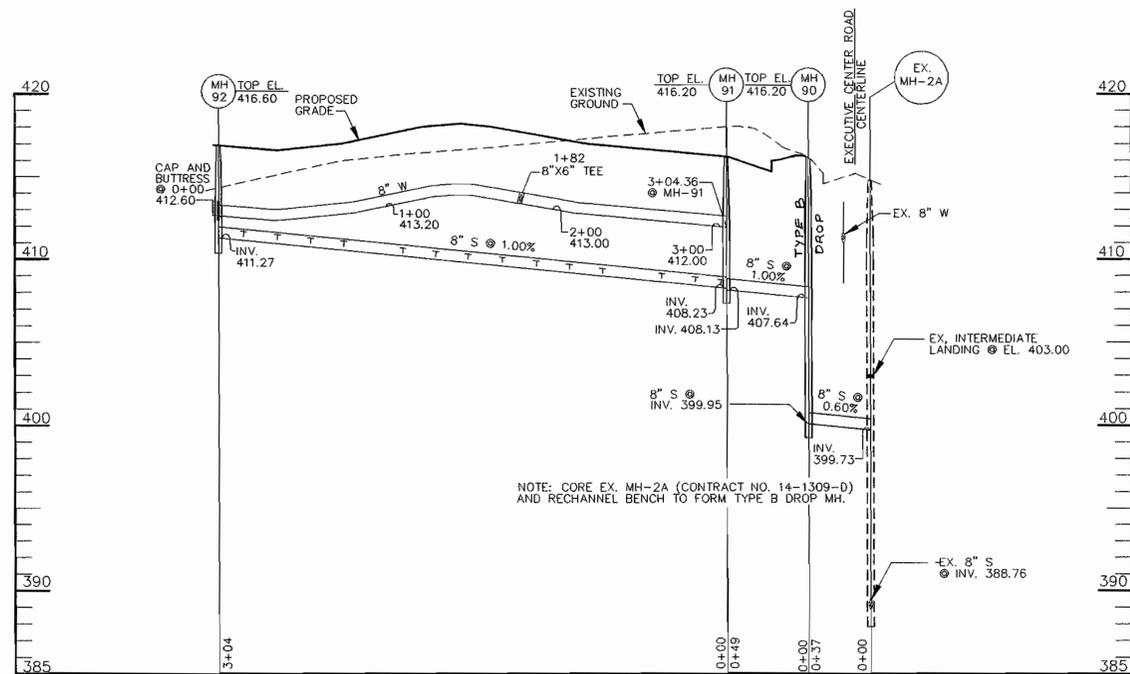


NOTE: FOR ADDITIONAL DETAIL, SEE STANDARD DETAIL 3.23
DUAL WATER HOUSE CONNECTION DETAIL
 NOT TO SCALE



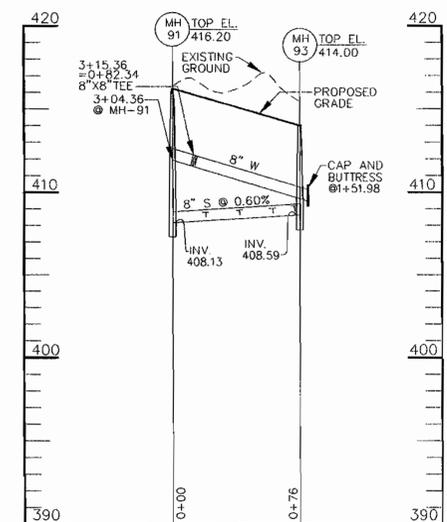
WATER FROM EXISTING LINE TO 0+82.34

SCALE: HORIZ. 1"=50'
VERT. 1"=5'



WATER FROM 0+00 TO 3+04.36
SEWER FROM MH-92 TO EX. MH-2A

SCALE: HORIZ. 1"=50'
VERT. 1"=5'



WATER FROM 3+04.36 TO 3+15.36
AND 0+82.34 TO 1+51.98
SEWER FROM MH-91 TO MH-93

SCALE: HORIZ. 1"=50'
VERT. 1"=5'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

KCE ENGINEERING, INC.

EXECUTIVE CENTER
3300 NORTH RIDGE ROAD, SUITE 360
ELLCOTT CITY, MARYLAND 21043
PHONE (410) 203-9800 FAX (410) 203-9228



DESIGNED
DRAWN
CHECKED
DATE

BY	NO.	REVISION	DATE

WATER AND SEWER PROFILES

600 SCALE MAP NO. 24 BLOCK 6

HOWARD'S RIDGE
SECTION 2, AREA 2
LOTS A-126 THRU A-145 (PHASE 1)
CONTRACT NO. 14-3797-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

SHEET
3 OF 3

Robert M. Beunzer
CHIEF, BUREAU OF UTILITIES
2-9-00
DATE

Chief, Development Engineering Division
2/10/00
DATE

GENERAL NOTES

PART I - GENERAL

- 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.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES. [NORTH AMERICAN DATUM OF 1983 (NAD 83)].
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THAT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR 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.
- 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.
- 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.
- 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
BGE CO. CONTRACTOR SERVICES	850-4620
BGE CO. UNDER GROUND DAMAGE CONTROL	787-9058
MISS UTILITY	1-800-257-1171
COLONIAL PIPELINE CO.	795-1390
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
BUREAU OF UTILITIES	313-4900
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM LIGHT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- 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.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 513-1111 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVED THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF HOWARD COUNTY CODE.

PART II - WATER

- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2' COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTIONS 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
- FOR SPRINKLER SYSTEM FOR ALL TOWNHOUSES OR MULTI-FAMILY DWELLING UNITS SHALL HAVE A MINIMUM OF 1" CONNECTION WITH A 3/4" METER.

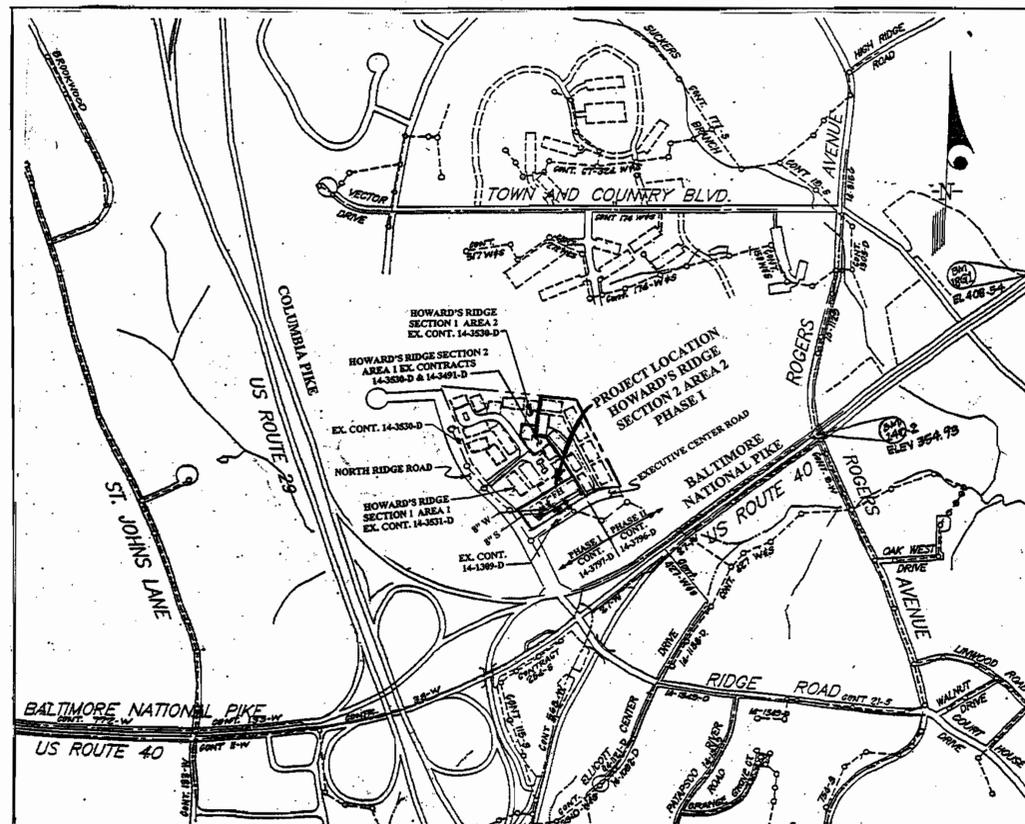
PART III - SEWER

- ALL SEWER MAINS SHALL BE DIP OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SLOTTED TOP OF FRAME 1" - 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" W	468 L.F.			
6" W	22 L.F.			
CAP & BUTTRESS	2 EA.			
1" WHC	234 L.F.			
8" V	1 EA.			
6" V	1 EA.			
FIRE HYDRANT	1 EA.			
8" S	466 L.F.			
4" SHC	423 L.F.			
4'-0" MANHOLE	4 EA.			
NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:				

TYPE OF BUILDING	TOWNHOUSES
NO. OF NON-BUILDABLE LOTS	1
NO. OF BUILDABLE LOTS	19*
NO. OF WATER HOUSE CONNECTIONS	18
NO. OF SEWER HOUSE CONNECTIONS	18
DRAINAGE AREA	PATAPSCO
TREATMENT PLANT	PATAPSCO W.Q.M.C.

*INCLUDES 1 FUTURE BUILDABLE LOT



WATER AND SEWER CODE
 WATER CODE: F-03
 SEWER CODE: 1452800
 TEST GRADIENT: 700

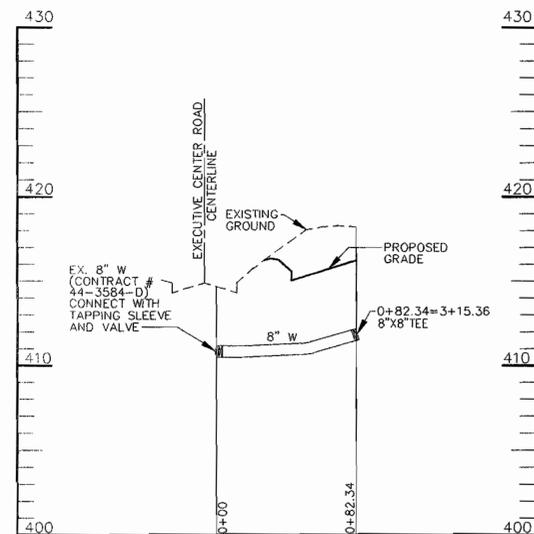
VICINITY MAP
 SCALE: 1" = 600'

CONTRACT NO. 14-3797-D
HOWARD'S RIDGE
 SECTION 2, AREA 2
 LOTS A-126 THRU A-145
 HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND ROAD CONSTRUCTION PLAN F-00-62.

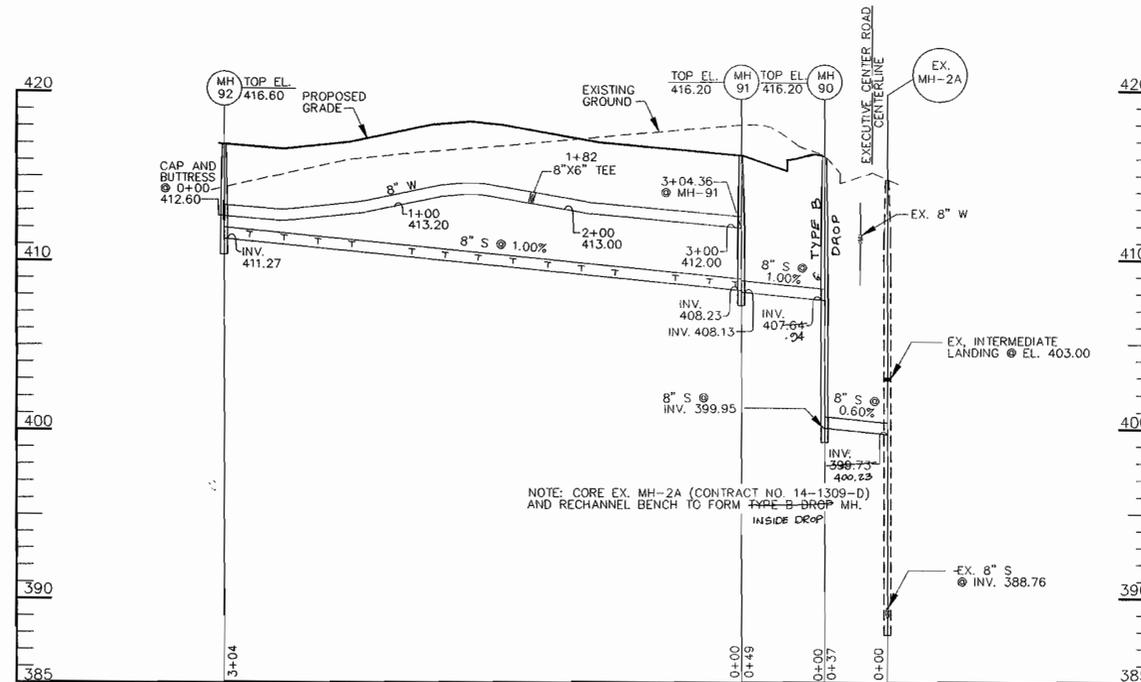
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
Cheryl Simon / 2/14/00
 U. S. SOIL CONSERVATION SERVICE
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: *[Signature]* / 2/14/00

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Robert M. Berman</i> / 2-9-00 CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND <i>Alan D. [Signature]</i> / 2/10/00 CHIEF, DEVELOPMENT ENGINEERING DIVISION	KCE ENGINEERING, INC. EXECUTIVE CENTER 3300 NORTH RIDGE ROAD, SUITE 360 ELLCOTT CITY, MARYLAND 21043 PHONE (410) 203-9800 FAX (410) 203-9228	DESIGNED DRAWN CHECKED DATE BY NO. REVISION DATE	TITLE SHEET	HOWARD'S RIDGE SECTION 2, AREA 2 LOTS A-126 THRU A-145 (PHASE 1) CONTRACT NO. 14-3797-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 1 OF 5
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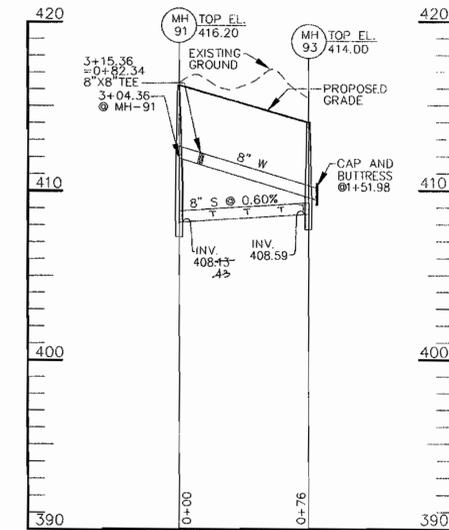
WATER FROM EXISTING LINE TO 0+82.34

SCALE: HORIZ. 1"=50'
VERT. 1"=5'



WATER FROM 0+00 TO 3+04.36
SEWER FROM MH-92 TO EX. MH-2A

SCALE: HORIZ. 1"=50'
VERT. 1"=5'



WATER FROM 3+04.36 TO 3+15.36
AND 0+82.34 TO 1+51.98
SEWER FROM MH-91 TO MH-93

SCALE: HORIZ. 1"=50'
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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

KCE ENGINEERING, INC.

EXECUTIVE CENTER
3300 NORTH RIDGE ROAD, SUITE 360
ELLCOTT CITY, MARYLAND 21043
PHONE (410) 203-9800 FAX (410) 203-9228



DESIGNED				
DRAWN				
CHECKED				
DATE	KZI	1	ASBUILT CONDITIONS ADDED TO PLAN	11/10/00
BY	NO.	REVISION	DATE	

WATER AND SEWER PROFILES

600 SCALE MAP NO. 24 BLOCK 6

HOWARD'S RIDGE
SECTION 2, AREA 2
LOTS A-126 THRU A-145 (PHASE I)
CONTRACT NO. 14-3797-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

SHEET
3 OF 3

Robert M. Beinson
CHIEF, BUREAU OF UTILITIES

2-9-00
DATE

Chief, Development Engineering Division
2/18/00
DATE

GENERAL NOTES

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BGE CO. CONTRACTOR SERVICES	850-4620
BGE CO. UNDER GROUND DAMAGE CONTROL	787-9068
MISS UTILITY	1-800-257-7177
COLONIAL PIPELINE CO.	795-1390
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
BUREAU OF UTILITIES	313-4900
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PART II - WATER

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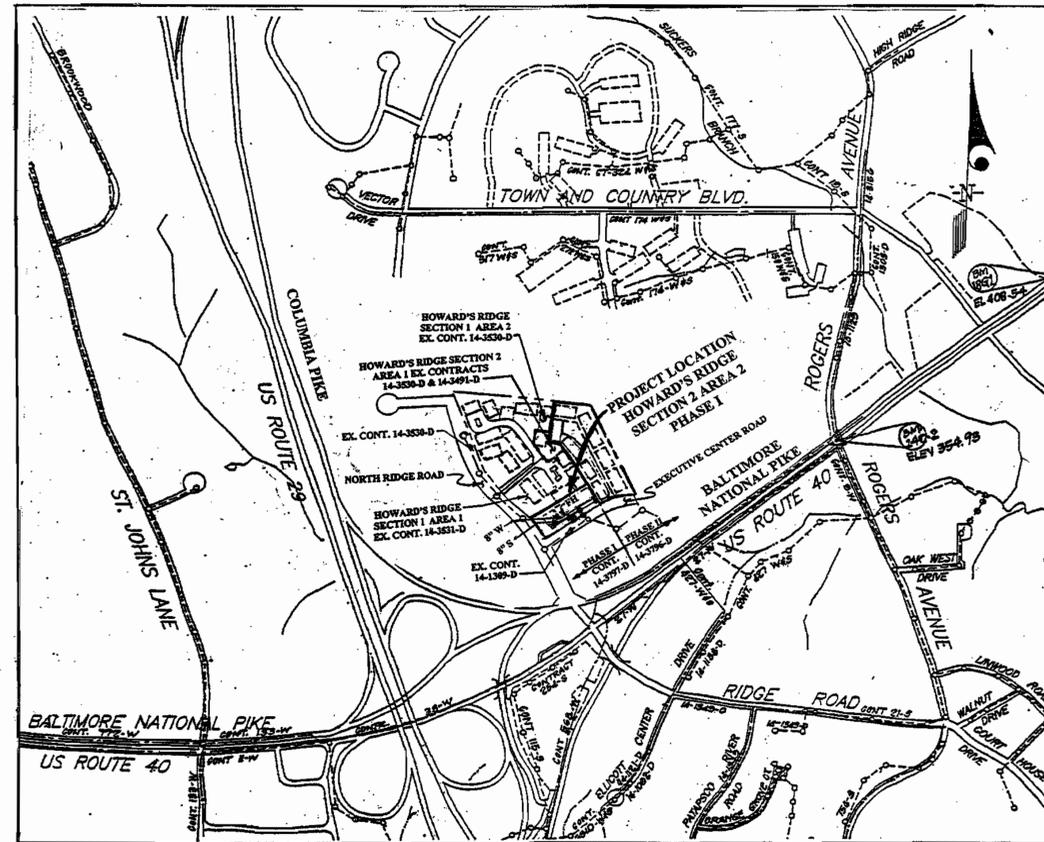
PART III - SEWER

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- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL C5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1" - 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" W	468 L.F.	467	DIP	GRIFFIN BELAIR RD SUPPLY
6" W	22 L.F.	25	DIP	" " " "
CAP & BUTTRESS	2 EA.	2EA.	" " " "	" " " "
1" WHC	234 L.F.	306	K. COPPER	READING BELAIR RD SUPPLY
8" V	1 EA.	1EA	R.S.	MUELLER " " "
6" V	1 EA.	1EA	R.S.	" " " "
FIRE HYDRANT	1 EA.	1EA	S.N.F.H.	" " " "
8" S	466 L.F.	452	P.V.C.	J.M. BELAIR AIR RD SUPPLY
4" SHC	423 L.F.	430	P.V.C.	" " " "
4'-0" MANHOLE	4 EA.	4EA.	PRECAST	ATLANTIC PRECAST
NAME OF UTILITY CONTRACTOR: C.C.S				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:				

TYPE OF BUILDING	TOWNHOUSES
NO. OF NON-BUILDABLE LOTS	1
NO. OF BUILDABLE LOTS	19
NO. OF WATER HOUSE CONNECTIONS	18
NO. OF SEWER HOUSE CONNECTIONS	18
DRAINAGE AREA	PATAPSCO
TREATMENT PLANT	PATAPSCO W.Q.M.C.

*INCLUDES 1 FUTURE BUILDABLE LOT



WATER AND SEWER CODE
 WATER CODE: F-03
 SEWER CODE: 1452800
 TEST GRADIENT: 700

VICINITY MAP
 SCALE: 1" = 600'

CONTRACT NO. 14-3797-D
 HOWARD'S RIDGE
 SECTION 2, AREA 2
 LOTS A-126 THRU A-145
 HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND ROAD CONSTRUCTION PLAN F-00-62.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

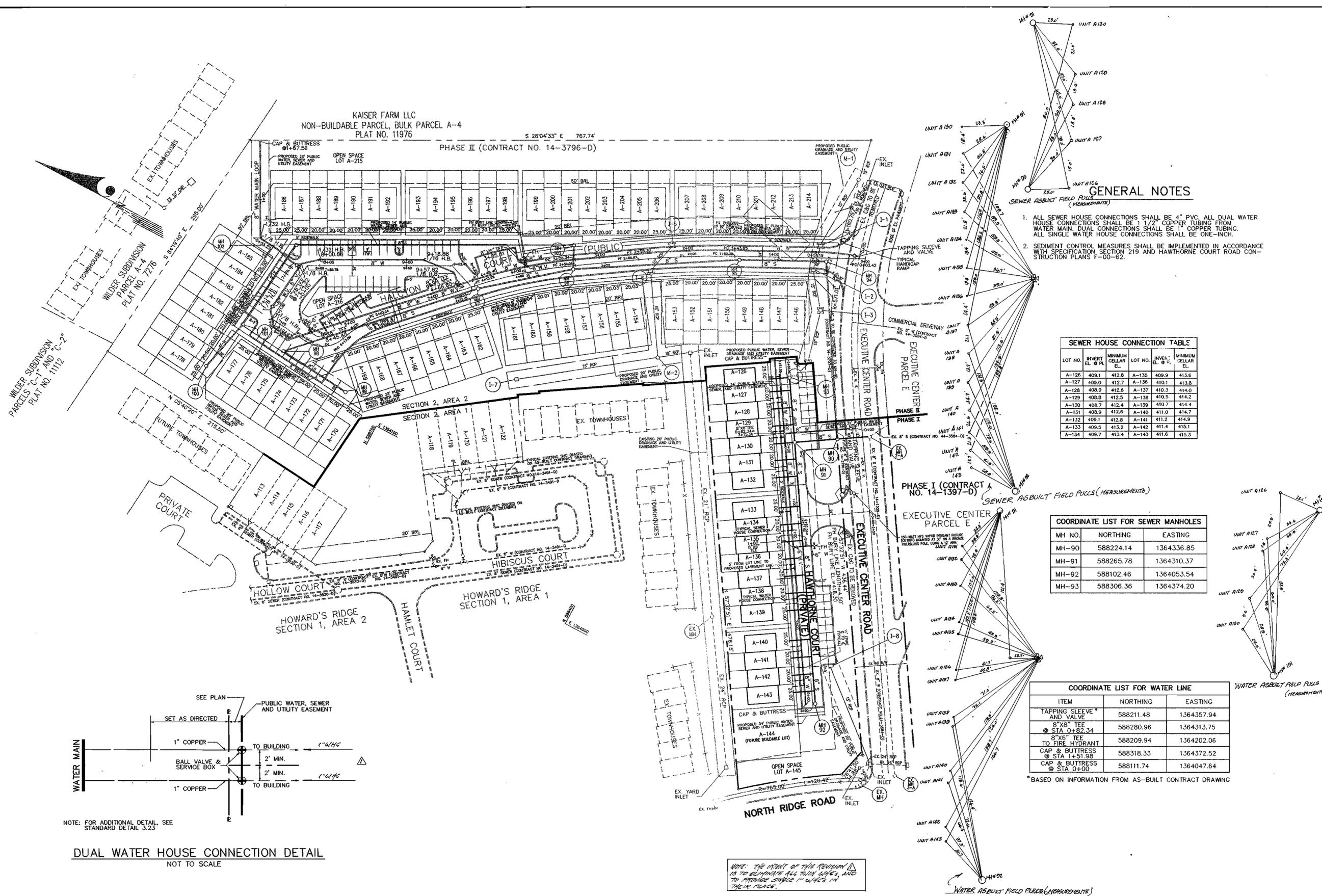
Cheryl Spang / as 2/14/00
 SIGNATURE DATE

U. S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: *Yvonne S. C. D.* 2/14/00
 HOWARD S. C. D. DATE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Robert M. Bennett</i> 2-9-00 CHIEF, BUREAU OF UTILITIES DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND <i>William Dammann</i> 2/10/00 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	KCE ENGINEERING, INC. EXECUTIVE CENTER 3300 NORTH RIDGE ROAD, SUITE 360 ELLICOTT CITY, MARYLAND 21043 PHONE (410) 203-9800 FAX (410) 203-9228	DESIGNED DRAWN CHECKED DATE KBI 2 ASBUILT CONDITIONS ADDED TO PLAN 1/10/00 ACC BY NO. REVISION DATE	TITLE SHEET 600 SCALE MAP NO. 24 BLOCK 6	HOWARD'S RIDGE SECTION 2, AREA 2 LOTS A-126 THRU A-145 (PHASE I) CONTRACT NO. 14-3797-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 1 OF 3
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GENERAL NOTES

1. ALL SEWER HOUSE CONNECTIONS SHALL BE 4" PVC. ALL DUAL WATER HOUSE CONNECTIONS SHALL BE 1 1/2" COPPER TUBING FROM WATER MAIN. DUAL CONNECTIONS SHALL BE 1" COPPER TUBING. ALL SINGLE WATER HOUSE CONNECTIONS SHALL BE ONE-INCH.
2. SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH SPECIFICATION SECTION 219 AND HAWTHORNE COURT ROAD CONSTRUCTION PLANS F-00-62.

SEWER HOUSE CONNECTION TABLE

LOT NO.	INVERT EL. @ 4'	MINIMUM CELLAR EL.	LOT NO.	INVERT EL. @ 4'	MINIMUM CELLAR EL.
A-126	409.1	412.8	A-135	409.9	413.6
A-127	409.0	412.7	A-136	410.1	413.8
A-128	408.9	412.6	A-137	410.3	414.0
A-129	408.8	412.5	A-138	410.5	414.2
A-130	408.7	412.4	A-139	410.7	414.4
A-131	408.9	412.6	A-140	411.0	414.7
A-132	409.1	412.8	A-141	411.2	414.9
A-133	409.5	413.2	A-142	411.4	415.1
A-134	409.7	413.4	A-143	411.6	415.3

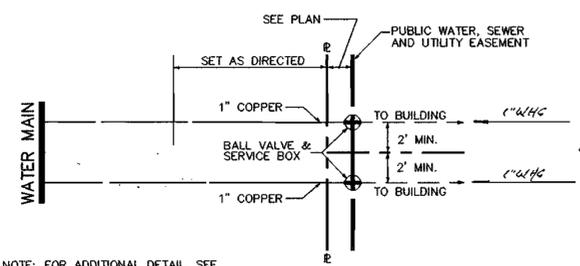
COORDINATE LIST FOR SEWER MANHOLES

MH NO.	NORTHING	EASTING
MH-90	588224.14	1364336.85
MH-91	588265.78	1364310.37
MH-92	588102.46	1364053.54
MH-93	588306.36	1364374.20

COORDINATE LIST FOR WATER LINE

ITEM	NORTHING	EASTING
TAPPING SLEEVE * AND VALVE	588211.48	1364357.94
8" X 8" TEE @ STA. 0+82.34	588280.96	1364313.75
8" X 6" TEE TO FIRE HYDRANT	588209.94	1364202.06
CAP & BUTTRESS @ STA. 14+51.98	588318.33	1364372.52
CAP & BUTTRESS @ STA. 0+00	588111.74	1364047.64

* BASED ON INFORMATION FROM AS-BUILT CONTRACT DRAWING



NOTE: FOR ADDITIONAL DETAIL, SEE STANDARD DETAIL 3.23

DUAL WATER HOUSE CONNECTION DETAIL
NOT TO SCALE

NOTE: THE INTENT OF THIS REVISION IS TO ELIMINATE ALL TWIN CHANGES AND TO APPROVE SINGLE 1" CHANGES IN THESE PLACES.