## HOWES LANE \& RODONA DRIVE 8-INCH WATER MAIN AND 8-INCH SEWER MAIN

| QUANTITES |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| ITEM | quantites |  | $\begin{aligned} & \text { TTPE } \\ & \text { MATERIAL } \end{aligned}$ | SUPPLIER |
|  | ESTMATED | AS BuILT |  |  |
| $8^{\prime \prime}$ WATER | 890 LF | 890 LF | dip | GRIFFIN PIPE |
| $6^{\text {" }}$ WATER | 6 LF | 9 LF | DIP | GRIFFIN PIPE |
| $6^{n} \times 6^{n 7}$ TAPPING SLEEVE \& VALVE | 1 EA | 1 EA | RESILIENT SEAT GATE VALVE | DRESSOR/BRS |
| Fire hiorant | EA | 1 EA | AWWA C-502 | MUELLER/BRS |
|  | $\begin{aligned} & 75 \mathrm{LF} \\ & 25 \mathrm{LF} \end{aligned}$ | $\begin{aligned} & 75 \mathrm{LF} \\ & 25 \mathrm{LF} \end{aligned}$ | TTPE "K" COPPER TUBE | Reading/BRS |
| $8^{\text {T }}$ SEWER | 450 LF | 431 LF | PVC | JM MANL./BRS |
| $4^{\text {T }}$ SEWER | 12 LF | 15 LF | PPve | JM MANL./BRS |
| manholes | 4 EA | 4 EA |  | ATLANTIC CONC, |
| Shallow manholes | 1 EA | 3EA |  |  |
| MANHOLES - DEPTH > $6^{\circ}$ | 5 VF | 5 VF |  |  |



MDE PERMIT NO.




CAPITAL PROJECT W-8698 CONTRACT NO. 24-4038

| TYPE OF BUILDING: NUMBER OF PARCELS: 2 WATER HOUSE CONNECTIONS: 2 SEWER HOUSE CONNECTIONS: 1 dRainage area: little patuxent | $\frac{\text { VICINITY MAP }}{\text { SCALE: } 1^{\prime \prime}=600^{\circ}}$ | WATER AND SEWER CODES FOR OUNTY USE ONLY WATER CODE. E3O SEWER CODE: 5521000 |
| :---: | :---: | :---: |



AS-BUILT JAN: 17,2003

GENERAL NOTES:
PART I

- APproxMATE LOCATONS OF EXISTNG MAINS ARE SHOWNN THE CONTRACTOR SHALL TAKE


2. ALL Horizontal control are based on marland state coordinates, nad 8391,
3. ALL VERTICAL CONTROLS ARE BASED ON NAVD 88.
4. TOPOGRAPHIC SURVEY WAS PERFORMED IN FEBRUARY 2002 BY DANEL CONSULTANTS, INC.
5. ALL pipe elevations shown are invert elevations unless otherwse noted on the
 UTLTY COMPANES AND HAS MADE ARRANGEMTSTSOR BRACING OF POLES AS SHOM




,
6. WHERE TEST PTTS HAVE BEEN MADE ON EXISTNG UTUTES. THEY ARE NOTED BY THE


7. THE CONTRACTOR SHAL NOTIFY THE FOLOOWNG UTUTY COMPANES OR AEENCIES AT



8. THE CONTRACTOR SHAL NOTRY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT OF ANY COUNTY ROAD FOR LAANG WATER SEWER MAINS OR HOUSE CONNECTONS. THE APPROVAL OF THESE DRAWNGS MLL CONSTTUTE COMPL
PER SECTON $18.114(0)$ OF THE HOWARD COUNTY COOE.

## PART II WATER

.
2. TOPS OF ALL WATER MAINS SHALL HAVE A MNIMUM OF $3^{3}-6^{\circ}$ OF COVER UNLESS
3. valves adjacent to tees shall be strapped to tees,
4. ALL FiTTNGS SHAL SE RESTRANED AND BUTRESSED OR ANCHORED WTH CONCRETE IN
5. FiRE HTRANTS SHAL BE SET TO THE BURY LINE EEEVATONS SHOWN ON THE DRAWNGS. ALO AROUND THE FRE HHORANT SHALL EE COMPACTID IN ACCORAANACE DTH SECTION
6. THYE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTNG WATER 7. FIVE DAPS PRIOR TO TIE-N CONNECTINS, CONTACT THE HOWARD COUNTY BUREAU of PART III SEWER

1. ALL MANHOLES SHALL Be $4^{4}-0^{\circ}$ InsIDE DIAMETER UNLESS OTHERWSE NOTED.
2. THA CONTRACTOR SHALL PROVDE A JOINT IN ALL SEWER MAINS WTHIN $2^{\prime}-0^{\prime \prime}$ OF EXTERIOR
3. GRAVTY SEWER MAIN SHALL BE DIIP. OR PVC UNLESS OTHERWSE NOTED.
4. houses wTh the smmbl "c.n.s." noicates that the celar can not be servve.





5. ExCCVATE Completely arouno the Inlet to a depth of 18" below the

 LOOOING AND SAFETY ISSUES MAY ARISE.





6. THE STUUCTURE MUST BE INSECGIED PERIOOICALY AND AFTER EACH
RAIN AND THE GEOTEXTLE REPLACED WHEN IT BECOMES CLOOGED.

STANDARD INLET PROTECTION



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## $\frac{\text { SILT FENCE }}{\text { NOT TO SCALE }}$



MAX. DRAIIAGE AREA $=1 / 4$ ACRE
construction specifications


## CONSTRUCTION SPECIFCATIONS



2. CHAN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WTH WRE TES.
THE LOWER TENSION WRE, BRACE AND TRUSS RODS, DRIVE ANCHORS ANO POST CAPS ARE NO THE LOWER TENSION WRE, BRACE AND TRUSS ROU
REQUIUED EXCCPT ON THE ENDS OF THE FENCE.
3. Fllter cloth shall be fastened securely to the chain link fence wit tis space Vert 24 at The top and mid section. 5. WHEN TWO SECTO.

 STAPLES AT TOP AND
GEOTEXTLE CLASS F:


SUPER SILT FENCE






7. THIS Tre of proicctov Mus re Mrpecte freuenty ano the flter cloth and stone

CURB INLET PROTECTION (COG OR COS INLETS)
AS-BUILT JAN. 17, 2003
Not to scale




CAPITAL PRO \&ECT W-8698
CONTRACT NO 2 WCONTRACT NO. 24-4038
ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND

## temporary seeding notes

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHHRE A SHORT-TERM VEGETATVE
COVER IS NEEDED.
SEEDED PREPAAATION - LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER
SOLL AMENOMENTS - APPLY 60 LBS PER ACRE $10-10-10$ FERTLIZER ( 14 LBS/1000 SQ.FT).


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PERMANENT SEEDING NOTES

SEEDED PREPARATON: LOOSEN UPER RHRE NCHES OF SOL EY RAKNG, OISKNG OR OTHER







$\frac{\text { MAINTENANCE - INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND }}{\text { RESEEDNGS. }}$

STANDARD SEDIMENT CONTROL NOTES










7. SITE ANAIYSS







 12. PLACE EXCAVAIED SOLL ON THE UPHIL SDIE OF THE TRENCHES.

SEQUENCE OF CONSTRUCTION
CONTACT HOWARD COUNTY BUREAU OF ENGINEERING, CONSTRUCTION INSPECTION
DIVSION (410-313-1880) PRIOR TO STARING DAFE. (4 DAYS)
2. INSTAL EROSION AND SEDMENT CONTROL DEVCES AS PER SECTON 219 OF THE HOWARO COUNTV DESIGN MAUUAL VOL. IV. (2 DAYS)
. EXCAVATE AND INSTAL PROPosED $8^{" \prime}$ WATER MAIN. (Z30 DAYS)



5. UPDN PERMISION FROM HOWARD COUNTY SEDMENT CONTROL INSPECTIN
6. INSTALL PERMANENT PAVING PATCH OVER TRENCH. (2 dAYs)

RESTORATION NOTES:
. SAW CUT THE EXISTNG BITUMMNOUS PAING, CURB AND GUTTER, AND SIIEWalk.
2. CUT AND REPAR BITUMINOUS PAIING $\mathbb{I N}$ ACCORDANCE WTH STANDARD DETALL G4

4. REPAR CONCRETE SIDEWALK IN ACCORDANCE WTH STANDARD DETALL $R 3.05$
AND MATCH EXISTNG CONOTIONS.

| RESTORATION SCHEDULE |  |  |  |
| :---: | :---: | :---: | :---: |
| staton | to staton | distance | materal |
| water main |  |  |  |
| 0+00 | $0+26$ | 26 FT. | BITUMINOUS PAVING (ASPHALT) |
| 0+26 | 0+28 | 2 FT . | CURB \& GUTITER |
| 0+28 | 4+62 | 434 FT . | SEEDING |
| $4+62$ | $4+64$ | 2 FT . | CURB \& GUTITER |
| $4+64$ | 4+98 | 34 FT . | Bituminous paving (AsPHALT) |
| $4+98$ | 5+00 | 2 FT . | CURB \& GUTITER |
| 5+00 | $8+50$ | 250 FT . | SEEDING |
| 8+50 | 8+52 | 2 FT . | CURB \& GUTITER |
| 8+52 | 8+88 | 36 FT . | MACADAM |
| 0+00=6+20 | 0+26 | 26 FT . | SEEDING |
| 0+00=8+84 | 0+56 | 59 FT . | MACADAM |
| 0+56 | 0+58 | 2 FT . | CURB \& GUTIER |
| 0+58 | 0+72 | 14 FT . | SEEDING |
| SEwER MAIN |  |  |  |
| EX. SMH 720 | 0+19 | 19 FT . | SEEDING |
| 0+19 | 0+21 | 2 FT . | CURB \& GUTIER |
| 0+21 | 0+55 | 34 FT . | BituMinous Paving (AsPHALT) |
| 0+55 | 0+57 | 2 FT . | CURB \& GUTITER |
| 0+57 | SMH 1 | 31.5 FT . | SEEDNG |
| SMH-1 | SMH 2 | 155.5 FT . | SEEDNG |
| SMH 2 | SMH 3 | 55 FT . | SEEDING |
| SMH 3 | SNH 4 | 27 FT . | SEEDING |
| SMH 4 | 0+13 | 13 FT . | SEEDING |

AS-BUILT JAN, 17,2003
WSE LAE \& RODNA DRIE

