| 1 | title sheet |
| :---: | :---: |
| 2 | TYPICAL SECTIONS |
| 3 | SURVEY traverse and bench mar |
| ${ }_{5}^{4}$ | ROADWAY PLAN - MD 103 \& SOUTH HAVEN DRIVE |
| 6 | ROADWAY PLAN - ROUNDHILL ROAD \& HUNTLEY DRIVE |
| 7 | ROADWAY PLAN - MD 103 \& WORTHINGTON WAY |
| 8 | Roadway plan - Worthington way \& little court |
| 9 | ROADWAY PLAN - Worthington way |
| 10 | ROADWAY PLAN - Worthington way \& Ellicott woods lan |
| 11 | PROFILE - STORM DRAINS |
| 12 | PROFILE - STORM DRAINS |
| 13 | miscellaneous detalls |
| 14 | SIGNAL PLAN |
| 15 | SIGNAL PLAN - General information shet |
| 16-22 | SEDIMENT CONTROL PLANS |
| 23 | erosion \& SEDiment control plan - Notes \& details |
| 24 | erosion \& SEdiment control plan - notes \& details |
| 25 | erosion \& Sediment control plan - notes \& detalls |



LOCATION MAP SCALE $\mathbf{1 " ~}^{\prime \prime}=1000^{\prime}$

CAPITAL PROJECT NO. J-4158.B
general notes

- ALI NINORMATION ANO DETALLS SHALL BE CONSTRUCTED AS PER PLAN OR AS . ALL STATIONNG AND DMENSIONNG ARE TO BE FELD VERIFED BY CONTRACTOR. 3. STORM DRANAGE SLOPES ARE TO BE AS DRECTED BY HOWARD




$$
\begin{aligned}
& 3104 \xrightarrow{N} \underset{\substack{\text { N, }, 571,700.681 \\
E, ~ 1,369,666.39}}{ }
\end{aligned}
$$

$$
\begin{aligned}
& \text { 31A3 }
\end{aligned}
$$



8. A STAGING AND STOCCPLIE AREA IS TO BE DEEERMNED BY
9. TOPOORAPHIC SURVEY INFORMATION BASED ON FIELD SURVEY PERFORMED
. NOTIFY BOB SNYDER AT THE STATE HIGHWA ADMMSTRATION (SHA) PRIOR TO ANY WORK AT THE MD 103 SOUTH HAVEN APPF
SHA WILL HAVE A TECHNCIAN ON SITE. (410) $787-7630$


## WORTHINGTON AREA VEHICULAR ACCESS

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS






ROUNOHILL ROAD
STA. $403+71.64$ TO STA. $404+98.36$
STA. $41+95.29$ TO STA. $413+50.00$



WORTHINGTON WAY



WORTHINGTON WAY
TA. $1413+90$ TO STA. $1419+50.00$


DEPARTMENT OF PUBLIC WORKS


Dewberry \& Davis LLC
0



CONSTRUCTION NOTES:



4
5. EXISTING MANHOLES, WATER METERS AND


LEGEND<br>-concrete sidewalk/entrance<br>-asphalt pavement -stamped asphalt pavement<br>-temporary construction strip




| SIDEWALK RAMP TYPE C - STD. No. R-4.03 |
| :--- |
| STA. 201+03.01. LT. $\quad$ SOUTH HAVEN $\quad$ IEA |

STA. 201+03.01, LT. SOUTH HAVEN IEA,

SANOAD TCOMBNATION CURB AND GUTIER. - STO.No. R-3.OI

CONCRETE SIDEWALK - STD. NO. R-3.05
STA. 200+99.11, LT. TO STA. 202+44.88, LT. SOUTH HAVEN 752 S.F.


SHEET NO. PS-1 OF PS-7


CAPITAL PROJECT NO.
$J-4158 . B$

ROADWAY PLAN WORTHINGTON AREA VEHICULAR ACCESS - PHASE II

CONSTRUCTION NOTES:

- ALL MALBOXES DISTURBED DURING


3. ALL MEASUSURMENTS TAKEN TO FACE OF
 Disturbed uncess noted



| ALIGNENT POINTS |  |  |  |
| :---: | :---: | :---: | :---: |
| POINT | STATTON | NORTH | EAST |
| POT | 4I6+46.20 | 574,644.0770 | 1,371, S58.6040 |


CONCRETE SIDEWALK - STD. NO. R-3.05
STA. 409+00.00, LT. TO STA. $416+1.58$. LT. ROUNOHLLL 3.240 S.F.


LEGEND

| DRAINAGE PPPE SCHEDULE |  |  |  |
| :---: | :---: | :---: | :---: |
| STR. To STR. | SIIE | TYPE | Length - |
|  | $15^{\circ}$ | RCP | 304' |



| DRAINAGE STRUCTURE SCHEDULE |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| STR. No. | \& Station | OfFSET - | Structure | Top of | Invert in | INVERT OUT | HOWARD CO. <br> STD NO. |
| I-2-1 | 412+14.30 | 20.00' ${ }^{\text {LT. }}$ | s-comb. InLet | 519.1 | --- | 513.0 | S0-4.32 |
| uH-2-1 | 409+11.01 | 15.16' ${ }^{\text {LT }}$. | 4'-0* MANHOLE | 502.5 | 495.2 | 495.0 | 6-5.12 |

DEPARTMENT OF PUBLIC WORKS


Dewberry \& Davis LLC






| CONCRETE SIDEWALK - STD. NO. R-3.05 |
| :---: |
| STA. 403+79.10, LT. TO STA. $409+00.00$, LT. ROUNOHILL 2,573 S.F. |


| ROUNOHLLL ROAD - ALIGNMENT POINTS |  |  |  |
| :---: | :---: | :---: | :---: |
| POINT | B STATION | NORHHNG |  | |  | E STATINT | NORTHNG | EASTING |
| :--- | :--- | :--- | :--- | :--- |
| POT | $402+32.10$ | $574.033,759$ |  |




CONSTRUCTION NOTES:


3. ALLURBE MEAUREMENTS TAKEN TO FACE O

5. ExISTING MANHOLES, MATER METERS AND



| ROUNDHLLL ROAD - CONSTRUCTION POINTS |  |  |  |
| :---: | :---: | :---: | :---: |
| B STATION | OFFSET | Elevation | ITEM |
| $403+77.64$ | $12.00^{\prime}$ LT. | 494.50' | PC |
| 403+79.64 | 16.00' LT. | ${ }^{493.80^{\prime}}$ | PRC |
| $403+87.64$ | 20.00' LT. | 493.71 | PT |
| 404+82.36 | 20.00' LT. | ${ }^{485.87}$ | PC |
| 404+90.36 | $16.00^{\prime}$ LT. | ${ }^{485.08}$ | PRC |
| 404+98.36 | $12.00^{\prime}$ LT. | 484.84' | PT |
| 406+17.23 | ${ }^{12.00}{ }^{\text {L LT. }}$ | ${ }^{479.66 '}$ | LP/PPOT |
| $407+00$ | LT. | 483.27 | рот |
| $409+00$ | 12.00' ${ }^{\text {LT }}$. | 501.01 | Pоt |



SHEET NO. PS-3 OF PS-7

DEPARTMENT OF PUBLIC WORKS



CAPITAL PROJECT NO.
J-4158.B

ROADWAY PLAN


CONSTRUCTION NOTES:

1. ALL MAILBOXES DSTTURED DURNG
 3. ALL MEASUUREMENTS TAKEN TO FACE OF

2. EXITTING MANHOLES, WATER METERS AND



CONCRETE SIDEWALK STD. No. R-3.05

| SIDEWALK RAMP TYPE C - STD. NO. R-4.03 |
| :--- |
| STA. $400+49.51$, LT. |
| WORTHINGTON WAY $\quad$ EA. | STA. $1400+58.02$, LT. TO STA $1407+50.00$, LT. WORTHNGTON 3 ,005 S.F.

# POT STA. $1400+00.00$ 



(SINE
 -



#### Abstract




 fLEGEND
-Concrete sidewalk/entrance
-streetprint pavement texturing
-temporary construction strip
-temporary grading easement




$\therefore$ MEASURED FROM CENTER OF CRATE AT CURB FACE
OFFSET IS MEASURED TO THE CENTER OF THE STRUCTURE

(1) Dewberry \& Davis LLC ${ }^{\text {now }}$



CAPITAL PROJECT NO.
$J-4158 . B$

ROADWAY PLAN
WORTHINGTON AREA VEHICULAR ACCESS - PHASE II

| RESIDENTIAL DRIVEWAY - STD. No. R-6.02 |  |  |  | DRAINAGE STRUCTURE SCHEDULE |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Location | station | SIDE | OTY (s.Y.) | STR. no. | ® STATION | OfFSET | STRUCTURE | TTOP of | INVERT | NVEET | HOWARD CO. <br> STD. NO |
| WORTHINGTON WAY | 1407+75.61 | LT. | 34 | MH-5-1 | 1407+96.22 | $\cdots 6.18^{\prime}$ LT. | 4'-0. MANHOLE | 483.4 | 477.9 | 477.7 | ${ }^{6-5.12}$ |
| WORTHINGTON WAY | $1408+61.53$ | LT. | 27 | I-5-1 | $1408+89.30$ | ${ }^{12.00^{\prime} \mathrm{LT} \text {. }}$ | A-O0 INLET | 477.2 | 47.1 | 470.9 | SD-4.41 |
| WORTHINGTON WAY | 1409+50.97 | LT. | 25 | EX-5-2 | 1409+21.22 | $16.29^{\text {RT. }}$ | EX. INLET | --- | 469 |  |  |
| WORTHINGTON WAY | $141+16.95$ | LT. | , | I-5-3 | $1410+89.77$ | 12.00' LT. | A-10 INLET | 467.4 |  | 463.0 | S0-4.41 |
| WORTHINGTON WAY | $1414+8.48$ | LT. | 10 | I-5-5 | $1412+88.54$ | $12.00^{\prime}$ LT. | COO-15 INLET | 461.1 | 456.2 | 456.0 | SHA MD-374.62 |
|  |  |  |  | 1-5-6 | $1413+27.83$ | 53.11'LT. | S-COMB. INLET | 461.8 |  | 456.0 | s0-4.32 |
|  |  |  |  | M $\mathrm{H}-5 \mathrm{-}$ | $1413+29.74$ | $\bullet 13.95{ }^{\prime}$ LT. | 5'-0. MANHOLE | 459.7 |  | 454.6 | 6-5.13 |
|  |  |  |  | EX-5-7 | $1413+30.75$ | 29.69' RT. | EX. NLET |  | 454.4 |  |  |
|  |  |  |  | I-5-7 | $1414+49.76$ | $19.00^{\prime}$ LT. | A-OO INLET | 456.4 |  | 453.1 | S0-4.41 |
|  |  |  |  | EX-5-8 | $1414+52.26$ | 24.72' RT. | EX. NLET |  | 451.7 |  | --- |
|  |  |  |  |  |  |  |  | THE |  |  |  |


|  | CURVE - No. 2 | CURVE - No. 4 | CURVE - No. 6 |
| :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { P.I. STA. }=1407+48.48 \\ & \triangle=37^{\circ} 377^{\prime 00.60 ' R T . ~} \\ & D C=20^{\circ} 50^{\prime} 05.38^{\prime \prime} \\ & R=275.00^{\prime} \\ & T=93.66^{\prime} \\ & L=180.55^{\prime} \\ & E=15.51^{\prime} \end{aligned}$ | $\begin{aligned} & \text { P.I. STA. }=1410+89.71 \\ & \triangle=11^{\circ} 06^{\prime} 34.73^{\prime \prime} \mathrm{LT} . \\ & D C=11^{\circ} 27^{\prime} 32.96^{\prime \prime} \\ & R=500.00^{\prime} \\ & T=48.63^{\prime} \\ & L=96.95^{\prime} \\ & E=2.36^{\prime} \end{aligned}$ |  |
|  | CURVE - No. 3 | CURVE - No. 5 |  |
|  | $\begin{aligned} & \text { P.I. STA. }=1409+60.49 \\ & \Delta=34^{\circ} 0.0{ }^{\prime} 4.23^{\prime \prime} \mathrm{LT} \\ & \text { DO }=28^{\circ} 38^{\prime} 22.40^{\prime} . \\ & R=200.00^{\prime} \\ & T=61.23^{\prime} \\ & L=118.84^{\prime} \\ & E=9.16^{\prime} \end{aligned}$ |  |  |




CONSTRUCTION NOTES:

- ALL MALBOXES DISTURBED DURING


3. ALL MEBEASUREMENTS TAKEN TO FACE OF




5:

CONSIDERED INCIDENTILL TO THE CONTRACT

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CAPITAL PROJECT NO
CAPITAL PROJEC
$\mathrm{J}-4158 . \mathrm{B}$

| CONSTRUCTION NOTES: <br> 1. ALL MALLBOXES DISTURBED DURING construction are to be reset. <br> 2. ALL NEW DRIVEWAY ENTRANCES TO MATCH EXISTING WIDTH AS RIGHT-OF-WAY LINE. <br> 3. ALL MEASUREMENTS TAKEN to FACE OF CURB. <br> 4. EXISTING TREES AND SHRUBS NOT WITHIN THE GRADEG EASEMENT SHALL NOT BE DISTURBED UNLESS NOTED <br> 5. EXISTING MANHOLES, WATER METERS AND WATER VALVES DISTURBED DURING CONSTRUCTION ARE TO BE ADJUSTED AND CONSIDRED INCIDENTAL TO THE CONTRACT. |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |



```
CURVE - NO. 8
```




``` \(R=5.000 .00\)
\(T=47.75\)
\(\stackrel{L}{L=95.49} \mathrm{E}=0.23^{\prime}\)
```

```
                                    CURVE - NO. 9
                                    P...STA. = 1423+26.20
\=1.3'136.64.LT.
R=5.000.00'
L= L=13.24'
\(\mathrm{L}=133.24^{\prime}\)
\(\mathrm{E}=0.44^{\prime}\)
```

2. ALL NEW DRIVEWAY ENTRANCES TO MATCH
ERISTNG WDT AS SHONN AT
RIGTTOFWAY LNE.
3. ALL MEASUREMENTS TAKEN TO FACE OF






| Hing ton way Construction |  |  |  |
| :---: | :---: | :---: | :---: |
| TION | OfFSET | Elev. | ІтеM |
| $1417+24.79$ | 19.00' ${ }^{\text {LT. }}$ | 447.57 | PC |
| $1419+1.44$ | $19.00^{\prime}$ LT. | 440.38 | PT |
| 34.35 | $19.00^{\prime}$ LT. | 439.08 | POC-CUREP PC |
| 37.48 | 18.26' ${ }^{\text {LT } \text { T. }}$ | 439.08 | POC-CURB PT |
| $1419+48.52$ | ${ }^{12} \cdot 74^{\prime}$ LT. | 438.73 | PoC-CURB PC |
| + +5.65 | $12.00^{\prime}$ LT. | 438.61 | POC-CURB |
| $1420+85.57$ | ${ }^{12.00}$ 'LT | 433.76 | PC |
| $1421+88.06$ | 12.00' ${ }^{\text {LT. }}$ | 430 | PT |

## LEGEND

4909
-concrete sidewalk/entrance
-temporary contruction strip
-wedge and level course
-temporary gradng easement

STANDARD $7^{\text {P COMBINATION CURB AND GUTTER - STD. NO. R-3.OI }}$
STA. $1415+50.00$, LT. TO STA. $1423+00.00$, LT. WORTHINGTON 750 L.F.

STA. $1415+50.00$, LT. TO STA. $1423+00.00$, LT. WORTHINGTON 3435 S.F.


| DRAINAGE STRUCTURE |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| STR. No. | ¢ STATION | OFFSET | STRUCTURE <br> TYPE | ELEV. TOP OF | INVERT IN | NVERT OUT | HOWARD CO. STD. NO |
| I-6-1 | 1416+21.21 | 19.00'LT. | COO-15 | 45.4 | --- | 447.2 | -SHA MD-374.62 |
| I-6-2 | 1418+97.09 | 19.00'LT. | -15 | 441.4 | --- | ${ }^{436}$ | -SHA MD-374.62 |
| I-6-3 | $1420+01.03$ | $\cdots$ - $22.333^{\prime}$ T. | D INLET | 437.5 | --- | 434.5 | SD-4.39 |
| EX-6-4 | $1416+29.82$ | 23.53'RT. | --- | --- | 445.0 | --- | --- |
| EX-6-5 | $1419+29.84$ | 17.87 RT . | --- | --- | 435.1 | --- | --- |
| м $\mathrm{H}-6-6$ | $1420+09.10$ | 14.80'RT. | 5'00' MANHOLE | 435.5 | ${ }^{431.2 \mathrm{tm}}$ | 430.4 | 6-5.13 |


SHEET NO. PS-6 OF PS-7

|  |  |  |
| :---: | :---: | :---: |
|  |  |  |
|  |  |  |


CAPITAL PROJECT NO.
J-4158.B
No.: $=$ DATE: $\xlongequal{3-1-02}$




NOTE: LOCATON AN MLEVATION OF
WATER CONNECTIONS MCI ARE APPROXIMATE
CONTRACTOR IS TO VERIF IN FIELD.

DEPARTMENT OF PUBLIC WORKS
howard countr, marylano
La- $y$ y.


## Dewberry \& Davis LLC <br> 



CAPITAL PROJECT NO
J-4158.B

SHEET NO. PR-1 OF PR-2
STORM DRAIN PROFILE


SHEET NO. PR-2 OF PR-2

DEPARTMENT OF PUBLIC WORKS




CAPITAL PROJECT NO.
J-4158.B

STORM DRAIN PROFILE
WORTHINGTON AREA VEHICULAR ACCESS - PHASE II ${ }^{\text {SHEET }}$





SPEED HUMP TREATMENT AT CURB (PCCC CURB)
SCALE: N. T.S.

plan - relocated mallbox


WORTHINGTON WAY SIDEWALK DETAIL SCALE: N.T.S.


MAILBOX PLACEMENT



## GENERAL


 intersection operation



SPECIAL Notes 1. THE FOLLOWG contact persons for this prouect are as follows
PROJECC CONAACSS:
MRONOHN ANACANON ASISTANT DISTRICT ENGINEER - TRAFFIC
PHON
PHONE: MROLIC EKHAROT. ASSISTANT DISTRICT ENGINEER - CONSTRUCTION


Mr. ROBERT SNTOER




| EQUPMENT LIST <br> a. equipment to be supplied by the administration. <br> CATEGORY CODE NO. <br> DESCRIPTION <br> CODE No. <br> 9970000 973023 <br>  <br> ALUMMUM, SIGNS <br>  <br>  <br> W16-7P (24"*30") GROUND MOUNTEC |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |


| CATEGORY | description | units | quant |
| :---: | :---: | :---: | :---: |
| 203030 | TESt pit excavation | cr | 1 |
|  |  | LF | 145 |
| $\begin{array}{r}585654 \\ 58545 \\ \hline\end{array}$ |  | LF | 175 |
| 660000 | REMMVAL 0 E EXISTING CONCRETE | SF |  |
|  |  | ${ }_{\text {SF }}^{\text {SF }}$ | 32 |
| 880000 |  | A | 2 |
| 8800000 | WAV IGATOR PEDESTRAN CENTTAL OONTROL UNNL HEAL SECTION - Pole Mount | A |  |
| $\begin{aligned} & 8000000 \\ & 800004 \end{aligned}$ | CONTROL CABLEE 100 FOOT VIDEO DETECTION CAMERA TO CONTROLLER |  |  |
| $\begin{aligned} & 802501 \\ & 805118 \end{aligned}$ |  | F |  |
| 885135 | 3 INCH SCHED ${ }^{\text {8OO PVC CONDUIT-TRENCHED }}$ | Lef | 35 |
| 813014 | INSTALL GROUND MOUNTED SIGN | ¢ | ${ }^{28}$ |
| 816001 | YIDED DETECTION CAMERA | EA | 1 |
| ( ${ }^{0} 0004$ |  | EA |  |
| 860292 861105 |  | EA |  |

note:
THE CONTRACTOR SHALL DELIVER APS UNIT TO SHA SIGNAL SHOP, PRIOR TO LOCATION INSTALLATION, FOR
PROGRAMMING. SHA FORCES SHAL INSTALL CENTRAL CONTROL UNiT IN THE CABINET.

Category description
units

## reve




| SEDIMENT CONTROL PLAN | SHEET NO. ES-1 OF ES-10 |
| :---: | :---: |

DEPARTMENT OF PUBLIC WORKS

Dewberry \& Davis LLC




CAPITAL PROJECT NO.
$J-4158 . B$
2. Sciaisirize construction entance locations and of Each dar.
 PLAGCMONTH

 OUE TO THE CONSTRANTIS OF THE CONSTRUCTION SITE STAGGMO STOCRPILE AREAS

Sed


14601


4596


LEGEND

-concrete sidewalk/entrance
$\square$
-asphalt pavement
PTOT
-temporary construction strip

Dewberry \& Davis LLC

$\square$ whatciet phebucuat





DEPARTMENT OF PUBLIC WORKS

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Dowhery \& Davis LLC


CAPITAL PROJECT NO.
$J-4158 . B$


DEPARTMENT OF PUBLIC WORKS
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burniver gen


CAPITAL PROJECT NO. $J-4158 . B$



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\begin{aligned}
& \text { Condtions where Proctico Apelleog } \\
& \text { 1. This proctico is } 1 \text { imtod to ore }
\end{aligned}
$$

This proctico is 1 imitod to oreos houing $2: 11$ or flottor slopes where.
Vogetotive sronth.
.. The sorl noterral 1. sis shollion thot the rooting zon doop enough to support plonts
C. The orignnal soil to bo vegotatod contains moterail toxic to plont








${ }^{2}$
*


b. Orgonnc content of topsoil sholl be not loss than 1.5 parcont by weight.




V. Topsol Applicotion













elevation detall

placement detall
construction Specifications




${ }_{\text {stail }}^{5}$ A. itized.
MODIFIED STRAW BALE DIKE

## SEQUENCE OF CONSTRUCTION

ine contractor is to obtain a grading permit from homaro countr. (2 waoase)







LEGEND

Cip ---] Curb inlet protection
sip---]
agip $[\cdots$-..........at grade inlet protection
Msbormen modified straw bale dike
-Loo -_.............. limit of disturbance



Dewberry \& Davis LLC




STANDARD SEDIMENT CONTROL NOTES






6. all sediment eoontrol structuros ore tro emmaln in place and ore to bo mointalined in operotive
condition untll permission for their removal hos been obtalned from the Howord County sod



 (Now Povement 0.00 Acres)
rotal cut
Total
Toffil
offite


9. Additional soelinent oentrol must be providided. if doemed nocosssary by the Howrd County





Construction Specifications








STANDARD INLET PROTECTION

$\qquad$


















$\frac{\text { CURB INLET PROTECTION }}{\text { SCALE: NONE }}$


PLAN / CUT AWAY VIEW

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46^{6}[
$$

$\qquad$

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Staillzed constructon entrance - mantenance



DEPARTMENT OF PUBLIC WORKS
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Dewberry \& Davis LLC ${ }^{\text {pet.minn}}$
and
chubrincelad


CAPITAL PROJECT NO
SEDIMENT CONTROL NOTES AND DETALLS
SHEET NO. ES-9
SEDIMENT AND EROSION

CROSS SECTION
max. DRa INAGE AREA $=1 / 4$ ACRE
CONSTRUCTION SPECIFICATIONS


$\frac{\text { AT GRADE INLET PROTECTION }}{\text { SCALE: NONE }}$
standards and specifications




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Ansin









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M2)
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\text { Figure } 4 \text { Incremental stabilization - Cut }
\]
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Figure 5 Incremental Stabilization - Embankment Fil
-




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| \%mams | soum | \% | $1 \times+1 /$ | \% \% | 20 |
| nutr | some | \%-0.4 | $1{ }^{1}$ | (13 Lemos |  |
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Dewberry \& Davis LLC Coticin

chen aculah


CAPITAL PROJECT NO
SEDIMENT AND EROSION频
WORTHINGTON AREA

