

The thiciness of hma shown on the plans is the nominal thickness. OEVIATIONS FROM THE NOMINAL THICKNESS WLL BE PERMITTED WHEN SUC OR BASE ON WHICH THE HMA IS PLACED.

THE HMA SURFACE OF ALL MALLBOX TURNOUTS. PRivate ENTRANCES. COMMERCIAL ENTRANCES. ANO SIDE ROADS SHALL $8 E$
MAOE NEATLY, IN A WORKMANLIKE MAANER. ANO SHALL ACCURATEL CONFORM TO THE SHAPES AND OIMENSIENS SHOWN ON THE PLAN
 SHAPE ANO OMENSIONS SHOWN ON THE PLAN DETAALS. THIS WOR

THE BAAE COURSE WIDENING SHALL BE CARRIED THROUCH ALL
EXTRANCES, SIDE ROADS, AND MALLBOX TURNOUTS, EXCEPTIONS
EXTRANCES. SIDE ROADS. AND M,
WLLL BE SHOWN ON THE PLANS.
EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT
THE TOP OF FAVEMENT SURFACES. me fop or pavement surfaces
before ordering pipe culverts or pipe drains. the contractor
the removal of end sections shall be includeo in the cost of
pipe culvert remolal.
The enciner will be the sole jude concerning curing time for
The various hma lifis.
for stabliization, all type ili barricades shall reoure a minimum
of four samo bacs per barricade.
SEEOING Shall Not be permitted at any time when the ground is
frozen, wer. or in an untllable conotion. Locations to be FROZEN, WET. OR IN AN UNTLLAALE CONOTHON.
SEEDO WTLL BE DETERMINED BY THE ENGNERR.
The finished earthwork shall have a vecetation sustainin soll
Coverna the top four inches in areas to se seneo or soinil THE RGGTEE TOP FOUR INCHES IN AREAS TO BE SEEDEO OR SOODED. THE VEGETATION SUSTAINING SOLL REDURED WILL NOT BE PAID FOR
SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF FURNISHED ExCavation
Short TERM Pavement Markincs Shall be used for the prime coat
APPLCATION AN EACH
ON EXISTIMG PAVEMENT WHICH MAY BE SUPERELEVATED. THE NEW
HMA PAVEMENT SHALL BE BULLT With THE SAME SUPERELEVATION HMA PAVEMENT SHALL BE BULT WITH THE SAME SHPRRELEVATIO
UNLESS NEW SUPRELEVATION RATES ARE GIVEN ON THE PLANS.
all elevations referring to u.s.g.s. mean sea level datum
ANY REFERENCE TO A STANOARD IN THESE PLANS SHALL BE

the following rates of application have been useo in

| cramular materials | 2.05 | TONS / Cu CO |
| :---: | :---: | :---: |
| BIT MATERIALS (PRIME COAT) | 0.375 | $6 \mathrm{AL} / 50 \mathrm{YD}$ |
| BiTUMINOUS MATERIALS | 0.08 | $\mathrm{CAL} / \mathrm{sa}$ Yo |
| FOG COAT | 0.05 | GAL/ SO YO |
| (BETHEEN AODITIONAL HMA LIFTS) |  | , |
| HMA RESUREFACING | 112 | Les/ $50 \mathrm{YD} / \mathrm{IN}$ |
| SHORT TERM PAVEMENT MARKING |  | FT 1100 FT OF APPLICATION |
| MIX FOR CRACKS. JTS \& FLLCWS | 0.0003 | ToNs/ 50 Yo |
| LEVEL BINDEE (HANO METHOO) | 0.0005 | ToNs / $\mathrm{SO}^{\text {YO }}$ |
| TEMPORARY OIICH Checks |  | AGCREGA |


all excavateo material must remain on the jobsite. no material
is allowed to be removed outios the richt-of-wat

COMMITMENTS

1. STORM WATER POLLUTION PREVENTION PLAN
2. 404 PERMIT
3. ENVIRONMENT COORDINATION
4. PRE/POST INSPECTION OF DETOUR ROUTE
5. NON-MOWABLE SLOPES
6. R. E. TO NOTIFY EMERGENCY SERVICE TWO WEEKS

PRIOR TO DETOUR


LOCATION MAP

general notes and location map


Section $\xrightarrow{\text { SECFITOH }}$ | 1.2 .5 | Las |
| :---: | :---: |






|  |  |  |  |  | 80\% FED. $20 \%$ STATE |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | CONSTRUCTION CODE |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | ROADWAY | BOX CULVERT | BOX CULVERT | BOX CULVERT |
|  | CODE |  |  | TOTAL | 0004 | 0011 | 0040 | 0011 |
|  | NO. | ITEM | UNIT | OuANTITY | RURAL | PROP. S. N. 050-2055 | PROP. S. N. 050-2056 | PROP. S. N. 050-2057 |
|  |  |  |  |  |  |  |  |  |
| * | 78200410 | Guardrail markers. TYPE A | Each | 24 | 24 |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | 78201000 | TERMInal marker - direct applied | EaCH | 12 | 12 |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | 78300200 | raised reflective pavement marker removal | EaCH | 24 | 24 |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | 54200223 | PIPE Culverts. CLASS D. TYPE $118 \%$ | Fо0t | 102 | 102 |  |  |  |
|  |  |  |  |  |  |  |  |  |
| * | $\times 0324455$ | Orilling and setting soloier piles (in soil) | CuFt | 537 |  |  |  | 537 |
|  |  |  |  |  |  |  |  |  |
|  | $\times 4060110$ | bituminous materials (prime coat) | POUND | 4313 | 4313 |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | x7010216 | traffic control and protection. ( special) | ¢ Sum | 1 | 1 |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | Z0030850 | temporary information signing | SQFT | 42.5 | 42.5 |  |  |  |
|  |  |  |  |  |  |  |  |  |
| * | 20007118 | untreated timber lagging | So ft | 177 |  |  |  | 177 |
|  |  |  |  |  |  |  |  |  |
|  | 20026402 | Furnishing soldier piles \% hp section) | f00t | 171 |  |  |  | 171 |





$$
\begin{array}{llll}
\text { STA } 313+69 & \text { TO STA } 314+31 \text { (OVER PROP SN 050-2055) } \\
\text { STA } 369+17 \text { TO STA } 369+79 & \text { (OVER PROP SN 050-2056) } \\
\text { STA } 445+22 \text { TO STA } 445+98 & \text { (OVER PROP SN 050-2057) }
\end{array}
$$

| MAINLINE SCHEDULE |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| STA. TO STA. | LENGTH | AREA |  | LEVEL BINDER (MM) | LEVEL BINDER (HM) | MIX FOR JTS. CRACKS \& FLGWYS | BIT. MAT'L (PR CT) | $\begin{aligned} & \text { AGG } \\ & \text { SHLD } \\ & \text { TY B } \end{aligned}$ | AGG SURF ACE COURSE | TEMP RAMP |
| LASALLE COUNTY | FT | SO YD | TONS | TONS | TONS | TONS | POUND | TONS | TONS | SO YD |
| SN 050-0143 |  |  |  |  |  |  |  |  |  |  |
| $311+00$ $317+00$ | 600 | 1960 | 164.6 | 82.3 | 1.0 | 0.6 | 1323.0 | 10.0 |  | 18.0 |
| subtotal | 600 | 1.960 | 165 | 82 | 1 | 0.6 | 1.323 | 10 |  | 18 |
|  |  |  |  |  |  |  |  |  |  |  |
| SN 050-0156 |  |  |  |  |  |  |  |  |  |  |
| $366+50$ $372+50$ | 600 | 1960 | 164.6 | 82.3 | 1.0 | 0.6 | 1323.0 | 11.0 |  | 18.0 |
| Subtotal | 600 | 1,960 | 165 | 82 | 1 | 1 | 1,323 | 11 |  | 18 |
|  |  |  |  |  |  |  |  |  |  |  |
| SN 050-0072 |  |  |  |  |  |  |  |  |  |  |
| $442+25$ $449+50$ | 725 | 2470 | 207.5 | 103.7 | 1.2 | 0.7 | 1667.3 | 11.0 |  | 18.0 |
| $448+23$ RT |  | 122 |  |  |  |  |  |  | 10.3 |  |
| ${ }_{48}^{48+94}$ LT |  | 102 |  |  |  |  |  |  | 8.6 |  |
| Subtotal | 725 | 2.470 | 207 | 104 | 1 | 1 | 1.667 | 11 | 19 | 18 |
|  |  |  |  |  |  |  |  |  |  |  |
| GRAND TOTALS |  |  | 537 | 268 | 3 | 2 | 4313 | 32 | 19 | 54 |


| PAVEMENT REMOVAL AND REPLACEMENT |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| STA. TO STA. | LENGTH | $\begin{gathered} \hline \text { AGGREGATE } \\ \text { BASE } \\ \text { COURSE } \\ \text { TYPE A } \\ \hline 4^{\prime \prime} \\ \hline \end{gathered}$ | $\begin{aligned} & \text { HMA } \\ & \text { BASE } \\ & \text { COURSE } \\ & 15 " * \end{aligned}$ | PAVEMENT removal | $\begin{gathered} \text { HMA } \\ \text { SURF. } \\ \text { REMOVAL } \\ \text { BUT T } \\ \text { JOINT } \\ \hline \end{gathered}$ | POROUS GRANULAR EmBANKMENT |
| LASALLE County | FT | SO YD | SO YD | SO YD | SO YD | CU YD |
| SN 050-0143 |  |  |  |  |  |  |
| 311+00 ${ }^{\text {S }}$ | 90 |  |  |  | 260 |  |
| $313+69$ $314+31$ | 62 | 179.0 | 179.0 |  |  | 374 |
| $313+69$ $313+89$ | 20 |  |  | 57.7 |  |  |
| $314+11$ $314+31$ | 20 |  |  | 57.7 |  |  |
| $316+10$ $317+00$ | 90 |  |  |  | 260 |  |
| Subtotal |  | 179 | 179 | 115 | 520 | 374 |
|  |  |  |  |  |  |  |
| SN 050-0156 |  |  |  |  |  |  |
| $366+50$ $367+40$ | 90 |  |  |  | 260 |  |
| $369+17{ }^{3} \mathbf{3 6 9 + 7 9}$ | 62 | 179.0 | 179.0 |  |  | 533.0 |
| $369+17$ $369+37$ | 20 |  |  | 57.7 |  |  |
| $371+60$ 格 $372+50$ | 90 |  |  | 57.7 | 260 |  |
|  |  |  |  |  |  |  |
| Subiotal |  | 179 | 179 | 115 | 520 | 533 |
|  |  |  |  |  |  |  |
| SN 050-0072 |  |  |  |  |  |  |
| $442+25$ $443+15$ | 90 |  |  |  | 260 |  |
| $445+22$ $445+98$ | 76 | 220.0 | 220.0 |  |  | 529.0 |
| 445+22 | 22 |  |  | 64.5 |  |  |
| 445+76 | 22 |  |  | 64.5 |  |  |
| $448+60$ $449+50$ | 90 |  |  |  | 260 |  |
| SUBTOTAL |  | 220 | 220 | 129 | 520 | 529 |
| GRAND TOTALS |  | 578 | 578 | 360 | 1560 | 1436 |

mooe Manes $\square$

$\left\lvert\, \begin{aligned} & \text { REVISEO } \\ & \text { RESISED } \\ & \text { REEISED } \\ & \text { RevISED }\end{aligned}\right.$ $\square$

| DRAINAGE SCHEDULE |  |  |  |
| :---: | :---: | :---: | :---: |
| LOCATION | PIPE CULVERT, CLASS D, TYPE 1, 18 | $\begin{gathered} \text { END } \\ \text { SECTIONS } \\ 18^{\prime \prime} \end{gathered}$ | PIPE Culvert REMOVAL |
| STA TO STA | FOOT | EACH | FOOT |
| $\xrightarrow{40705050}$ |  |  |  |
| STA 447+95.56, 33.13' RT - 448+50.54, 31.01 RT | ${ }^{55}$ | $\frac{2}{2}$ | 24 |
| SN 050.0072 SUBTOTAL | 102 | 4 | 48 |
| TOTAL | 102 | 4 | 48 |


| EARTH EXCAVATION SCHEDULE |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| STA to Sta |  | $\begin{gathered} \text { (2) } \\ \text { EARTH } \\ \text { EX } \end{gathered}$ | (3) <br> EARTH EX ADJ FOR SHRINKAGE | (4) EMBANK | (5) <br> EARTHWORK BAL WASTE(+) OR SHORTAGE(-) |
|  | LANE | CU YD | CU YD | CU YD | CU YD |
| SN 050-0143 | NB/SB | 233.7 | 175 | 331.1 | 156 |
| SN 050-0156 | NB/SB | 181.8 | 136 | 335 | -199 |
| SN 050-0072 GRAND TOTALS | NB/SB | 288 704 | 216 528 | $\frac{1083}{1749}$ | $\stackrel{-867}{-1221}$ |

COLUMNS 2. AND 4-LOCATION AND QUANTTITES FROM CROSS SECTIONS
COLUMN 3- OUANTITY OF EARTH EXCAYATION (COT) SOUSSTED FOR A SHRINKAGE FACTOR OF $25 \%$ (1- SHRINKAGE FACTOR
note all material excavated on this project must be used as fill. no material will be allowed to be removed
from the project


|  | USER NMEE E Pusfa | OESICNEO | ${ }^{\text {Revisiso }}$ | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SCHEDULES |  |  |  |  |  | section |  | counir | Sotan smis |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | REVIISEO |  |  |  |  |  |  | 786 | 110188-1.2,3 |  |  | 6911 |
| mmoemmes | Plot pate = Soaries | OATE | Revisco |  | SCMEs | Stiet | Of | Steets sid | to sta. |  | lumois | 10 o | Contract |  |


| PAVEMENT MARKING SCHEDULE |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LOCATION | distance | PAINT PVT MK 4" | PAINT PVT MK 6" | TEMP MARK 4" | $\begin{gathered} \hline \text { TEMP } \\ \text { MARK } \\ \mathbf{6 " \prime}^{\prime \prime} \\ \hline \end{gathered}$ | SHORT- TERM MARK | WORK ZONE PAVT MARK REM | RAISED REFLECTIVE PVMT MARKERS | REMOVAL RAISED reflective PVT MARKERS |
| STA | FOOT | FOOT | FOOT | FOOT | FOOT | FOOT | SO. FT. | EACH | EACH |
| 050-0143 |  |  |  |  |  |  |  |  |  |
| $311+00 \quad$ T0 $\quad 317+00$ | 600 | 1200 | 150 | 1200 | 150 | 180 | 60 | 8 | 8 |
| (2) Double application |  | 1200 | 150 |  |  |  |  |  |  |
| O50-0143 SUBTOTAL |  | 2400 | 300 | 1200 | 150 | 180 | 60 | 8 | 8 |
| 050-0156 |  |  |  |  |  |  |  |  |  |
| 366+50 T0 $372+50$ | 600 | 1200 | 150 | 1200 | 150 | 180 | 60 | 8 | 8 |
| (2) Double Application |  | 1200 | 150 |  |  |  |  |  |  |
| 050-0156 SUBTOTAL |  | 2400 | 300 | 1200 | 150 | 180 | 60 | 8 | 8 |
| 050-0072 |  |  |  |  |  |  |  |  |  |
| $442+25 \quad$ T0 $449+50$ | 725 | 1450 | 181 | 1450 | 181 | 218 | 72 | 9 | 9 |
| (2) Double Application |  | 1450 | 181 |  |  |  |  |  |  |
| O50-0072 SUBTOTAL |  | 2900 | 363 | 1450 | 181 | 218 | 72 | 9 | 9 |
| CRANO TOTAL | 1925 | 7700 | 963 | 3050 | 481 | 578 | 192 | 24 | 24 |

(1) REE TO VERIIY No passing zones prior to milling operation
(2) PAiNT MUST BE DONE IN A DOUBLE APPLICATION

| SEEDING SCHEDULE |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LOCATION | LANE | $\begin{aligned} & \text { SEEDING } \\ & \text { CLASS 2A } \end{aligned}$ | NITROGEN FERTILIZER NUTRIENT | $\begin{aligned} & \hline \text { POTASSIUM } \\ & \text { FERTILIZER } \\ & \text { NUTRIENT } \end{aligned}$ | $\begin{aligned} & \text { PHOSPHOROUS } \\ & \text { FERTILIZER } \\ & \text { NUTRIENT } \end{aligned}$ | HEAVY DUTY EROSION CONTROL BLANKET | $\begin{gathered} \text { TEMP } \\ \text { DITCH } \\ \text { CHECKS } \end{gathered}$ | PERIMETER EROSION BARRIER* |  |
| STA TO STA |  | ACRE | POUND | POUND | POUND | S.Y. | FOOT | FOOT | POUND |
| S.N. $050-0143$ |  |  |  |  |  |  |  |  |  |
| STA $311+00$ To STA $314+00$ LT | NB | 0.20 | 18 | 18 | 18 | 968 | 30 | 30 | 40 |
| $\frac{\text { STA } 311+00 \text { TO STA } 314+00 \mathrm{RT}}{\text { STA } 314+00 \text { TO STA }} 177+00$ LT | $\frac{\text { SB }}{\text { NB }}$ | 0.20 | $\frac{18}{18}$ | $\frac{18}{18}$ | $\frac{18}{18}$ | $\frac{968}{968}$ | $\frac{30}{30}$ | 30 30 | ${ }_{40}^{40}$ |
| STA 314+00 TO STA S $317+00$ RT | $\stackrel{\text { NB }}{ }$ | 020 | ${ }_{18}^{18}$ | ${ }_{18}^{18}$ | ${ }_{18} 18$ | 968 | 30 | 30 | 40 |
| S.N. O50-0143 SUBTOTAL |  | 0.80 | 72 | 72 | 72 | 3872 | 120 | 120 | 160 |
| S.M 050.0156 |  |  |  |  |  |  |  |  |  |
| STA $366+50$ To STA $369+50$ LT | NB |  | 16 | 16 | 16 | 871 | 30 | 30 | 36 |
| STA $366+50$ TO STA $369+50$ RT | SB | 0.12 | 11 | 11 | 11 | 581 | 30 | 28 | 24 |
| STA $369+50$ TO STA $372+50$ LT | NB | 0.20 | 18 | 18 | 18 | 968 | 30 | 30 | 40 |
| STA $369+50$ To STA $372+50 \mathrm{rT}$ | SB | 0.19 | 17 | 17 | 17 | 920 | 30 | 28 | 38 |
| S.N. $050-0156$ SUBTOTAL |  | 0.69 | 62 | 62 | 62 | 3340 | 120 | 116 | 138 |
| S.M. 050.0072 |  |  |  |  |  |  |  |  |  |
| STA $442+25$ To STA $445+50 \mathrm{LT}$ | NB | 0.17 | 15 | 15 | 15 | 823 | 30 | 51 | 34 |
| STA $442+25$ TO STA $445+50$ RT | SB | 0.22 | 20 | 20 | 20 | 1065 | 30 | 53 | 44 |
| $\frac{\text { STA } 445+50 \text { To STA } 449+50 \text { LT }}{\text { STA } 445+50 ~ T O ~ S T A ~ 449 ~} 50$ RT | ${ }_{\text {NB }}^{\text {SB }}$ | 0.24 | $\frac{22}{28}$ | $\frac{22}{28}$ | $\frac{22}{28}$ | $\frac{1162}{150}$ | $\frac{30}{30}$ | $\frac{54}{49}$ | $\frac{48}{62}$ |
| STA $445+50$ To STA 449+50 RT | SB | 0.31 | 28 | 28 | 28 | 1500 |  |  | 62 |
| S.N. 050-0072 SUBTOTAL |  | 0.94 |  |  |  | 4550 | 120 | 207 | 188 |
| GRAND TOTAL |  | 2.4 | 219 | 219 | 219 | 11761 | 360 | 443 | 486 |

-place along creek, south side and north side
$\square$ $\left\lvert\, \begin{aligned} & \text { ossicueo } \\ & \text { orate } \\ & \text { Cutcreo }\end{aligned}\right.$
 STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

[ 5 ${ }_{\text {SECTION }}$ Count
Land
Cown

| GUARDRAIL |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NBL/SBL | $\begin{gathered} \text { TERM } \\ \text { MRX, DA } \end{gathered}$ | $\begin{gathered} \hline \text { TBT TY } 1 \\ \text { SP (FLARED) } \end{gathered}$ | SPBGR TY A 6 $^{\circ}$ POSTS (F00T) | $\begin{gathered} \hline \text { SPBGR } \\ \text { ATTACHED TO } \end{gathered}$ STRUCTURE | $\begin{gathered} \hline \text { HMAA } \\ \text { SHLD } \\ \hline{ }^{\prime \prime} \end{gathered}$ | $\begin{gathered} \text { GR } \\ \text { REMOVAL } \end{gathered}$ | GUARDRAIL MARKERS TYPE A |
| STA 10 STA |  | EA | EA | II | ${ }_{\text {FI }}$ | 50-80 | FOOT | FA |
| EAST SIDE OF STRUCTURE | NBI | 2 |  |  |  | 194 | 405 | 4 |
| STA $313+14$ TO STA $313+64$ | NBI |  | 1 |  |  |  |  |  |
| STA 313+64 TO STA 313+89 | NB1 |  |  | 25 |  |  |  |  |
| STA $313+89$ TO STA $314+11$ | NBI |  |  |  | 28 |  |  |  |
| STA 314+11 TO STA 314+93 | NBI |  |  | 82 |  |  |  |  |
| STA $314+93$ TO STA $315+43$ | NB1 |  | 1 |  |  |  |  |  |
| WEST SIDE OF STRUCTURE | SBI | 2 |  |  |  | 194 | 404 | 4 |
| STA 312+71 TO STA 313+21 | SBI |  | 1 |  |  |  |  |  |
| STA 313+21 TO STA 313 +89 | ${ }_{\text {S } 81}$ |  |  | 68 |  |  |  |  |
| STA $313+89$ To STA 314+11 | SBI |  |  |  | 28 |  |  |  |
| STA 314+11 TO STA 314+48 | SBI |  |  | 37 |  |  |  |  |
| STA 314+48 TO STA 314+98 | SBL |  | 1 |  |  |  |  |  |
| SN * $050-0143$ SUBTOTAL |  | 4 | 4 | 212 | 56 | 388 | 809 | 8 |
| SN - 050-0156 |  |  |  |  |  |  |  |  |
| EAST SIDE OF STRUCTURE | NB1 | 2 |  |  |  | 194 | 405 | 4 |
| STA 368+49 T0 STA $368+99$ | NBI |  | 1 |  |  |  |  |  |
| STA $368+99$ To STA $369+30$ | NBI |  |  | 31 |  |  |  |  |
| STA 369+30 To STA 369+52 | NBIL |  |  | 60 | 28 |  |  |  |
| STA 370+27 TO STA 370+77 | NBI |  | 1 |  |  |  |  |  |
| WEST SIDE OF STRUCTURE | SBI | 2 |  |  |  | 197 | 405 | 4 |
| STA $368+19$ TO STA $368+69$ | SBI |  | 1 |  |  |  |  |  |
| STA 368+69 TO STA 369+44 | SBI |  |  | 75 |  |  |  |  |
| STA 369+44 TO STA 369+66 | $S_{\text {SBIL }}$ |  |  |  | 28 |  |  |  |
| STA 369+66 TO STA 369+97 | SBL |  |  | 31 |  |  |  |  |
| STA 369+97 TO STA 370+47 | SBL |  | 1 |  |  |  |  |  |
| SN * $050-0156$ SUBTOTAL |  | 4 | 4 | 197 | 56 | 391 | 810 | 8 |
| SN - 050-0072 |  |  |  |  |  |  |  |  |
| EAST SIDE OF STRUCTURE | NBL | 2 |  |  |  | 214 | 416 | 4 |
| STA 444+70 TO STA 445+20 | NB1 |  | 1 |  |  |  |  |  |
| STA $445+20$ TO STA $445+58$ | NBL |  |  | 38 |  |  |  |  |
| STA 445+58 T0 STA 445+99 | NBI |  |  |  | 41 |  |  |  |
| STA $445+99$ TO STA 447+04 <br> STA $447+04$ TO STA $447+54$ | NBI |  |  | 105 |  |  |  |  |
| WEST SIDE OF STRUCTURE | $\frac{\text { NBI }}{\text { SII }}$ | 2 | $\underline{1}$ |  |  | 220 | 416 | 4 |
| STA 443+66 TO STA 444+16 | SBI |  | 1 |  |  |  |  |  |
| STA 444+16 TO STA 445+23 | SBL |  |  | 107 |  |  |  |  |
| STA 444+23 TO STA 445+64 | SBI |  |  |  | 41 |  |  |  |
| STA $445+64$ To STA $445+85$ | S81 |  |  | 21 |  |  |  |  |
| $\frac{\text { STA } 445+85 \text { TO STA } 446+35}{\text { SN* } 050-0072 \text { SUBTOTAL }}$ | SBL | 4 | 1 | 271 | 82 | 434 | 832 | 8 |
| GRAND TOTAL |  | 12 | 12 | 680 | 194 | 1213 | 2451 | 24 |
|  |  |  |  |  |  |  |  |  |






















SECTION G-G


WEEP HOLE DRAIN DETAIL
Cost of the weep hole drain and
the connection to the geocomposit
wall drain ore included geocomposith

Note:
The Controctor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough- sown
minimum allowoble bending stress of 1000 psi.



SHEAR STUD DETAIL

TABLE A

| Soldier Pile | Pile <br> Size | Top <br> Elevotion <br> (ft.) | Bottom Elevation <br> (ft.) | Total Height <br> (ft.) | Number of <br> Sheor Studs |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | HP $14 \times 89$ | 664.22 | 637.3 | 26.92 | 10 |
| 2 | HP $14 \times 89$ | 662.70 | 637.3 | 25.40 | 9 |
| 3 | HP $14 \times 89$ | 666.19 | 637.3 | 23.89 | 7 |
| 4 | HP $8 \times 36$ (min.) | 659.04 | 648.8 | 10.24 |  |

$\frac{\text { TABLE A }}{\text { (Downstreom) }}$

| Soldier Pile | Pile <br> Size | Top <br> Elevation <br> (ft.) | Bottom <br> Elevat.) | Total Height <br> (ff.) | Number of <br> Shear Studs |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | HP $14 \times 89$ | 664.15 | 637.3 | 26.85 | 10 |
| 2 | HP $14 \times 89$ | 662.63 | 637.3 | 25.3 | 9 |
| 3 | HP $14 \times 89$ | 61412 | 63.3 | 23.82 | 7 |
| 4 | HP $8 \times 36$ (min.) | 658.97 | 648.8 | 10.17 |  |

 Note: Membrane Woterproofing for Culverts shall cover top of the top slob,
top one foot of side walls, and 6 inches up inside foce of the heodwalls. alternatives.


BAR SPLICER ASSEMBLY FOR BOX CULVERT END SECTION

| Minimum Lop Lengths |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bar size to be spliced | Table 1 | Table 2 | Table 3 | Toble 4 | Toble 5 | Toble 6 |
| 3, 4 | $1^{\prime \prime} 5^{\prime \prime}$ | $l^{\prime \prime} 1 l^{\prime \prime}$ | $2^{\prime}-1^{\prime \prime}$ | $2^{\prime-4 \prime \prime}$ | 2'-7" | $2^{\prime}-11^{\prime \prime}$ |
| 5 | $1^{\prime \prime-9 \prime}$ | $2^{\prime 2} 5^{\prime \prime}$ | $2^{\prime \prime} 7^{\prime \prime}$ | $2^{\prime}-11^{\prime \prime}$ | $3^{\prime \prime} 3^{\prime \prime}$ | $3^{\prime}-8^{\prime \prime}$ |
| 6 | $2^{\prime}-1^{\prime \prime}$ | $2^{\prime}-11^{\prime \prime}$ | $3^{\prime \prime}-1^{\prime \prime}$ | $3^{\prime}-6^{\prime \prime}$ | $3^{\prime \prime}-10^{\prime \prime}$ | $4^{\prime}-5^{\prime \prime}$ |
| 7 | $2^{\prime \prime-9 \prime}$ | $3^{\prime \prime}-10^{\prime \prime}$ | $4^{\prime}-2^{\prime \prime}$ | $4^{\prime}-8^{\prime \prime}$ | $5^{\prime \prime} 2^{\prime \prime}$ | $5^{\prime}-10^{\prime \prime}$ |
| 8 | $3^{\prime}-8^{\prime \prime}$ | $5^{\prime}-1{ }^{\prime \prime}$ | 5'-5" | $6^{\prime} \cdot 2^{\prime \prime}$ | $6^{\prime-9 \prime \prime}$ | $7^{\prime}-8^{\prime \prime}$ |
| 9 | $4^{\prime \prime} 7^{\prime \prime}$ | $6^{\prime-55^{\prime \prime}}$ | $6^{\prime-10^{\prime \prime}}$ | $7^{\prime \prime}-9 \prime 1$ | $8^{\prime \prime} 7^{\prime \prime}$ | $9^{\prime}-8^{\prime \prime}$ |

$$
\begin{aligned}
& \text { Toble e Block bar, } 0.8 \text { Class } C \\
& \text { Toble 2: Block bor, Too bor lop, } 0.8 \text { Closs C } \\
& \text { Toble 3: Epoxy bor, OO Closs C C. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Toble 5: Epoxy bor, Class C } \\
& \text { Toble 6: Epoxy bar, Top bor top, Class C }
\end{aligned}
$$

$$
\text { Threaded splicer bar length }=\text { min. lap length }+1_{2}^{\prime \prime}+\text { thread length }
$$

| Location | Bar <br> size | No. ossemblies <br> required | Toble for minimum <br> lop length |
| :---: | :---: | :---: | :---: |
| $*$ Cutoff Woll | 5 |  | 1 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

* For one end section









$\square$


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EROSION CONTROL DETAILS
FOR SILT FENCE


SECTION A-A


FIELD ENTRANCE DETAIL

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

$\square$
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Reviseo


RURAL MAILBOX TURNOUT DETAILS


PAVEMENT MARKING


NOTE:
When Milling operations produce a rounded edce.
Then a sall cut Shall be used to manuractuac.
THEN A SAW CUT SHALL BE USED TO MANUFACTURE
A PERPENOICULAR EOGE AS SHOWN IN THE DETALL.
AHE ENGINER SHALL BE THE SOLE JUOC

HMA DETAIL AT BUTT JOINTS


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