

$\frac{\text { WORKING POINT DIAGRAM }}{\text { SCALE: } 1 "=10^{\prime}}$

$\frac{\text { TYPICAL SECTION }}{\text { SCALE: } 1 / 4^{\prime \prime}=11^{\prime}-0^{\prime \prime}}$

| SUMMARY OF QUANTITIES |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| TTEA NO. | description | UNIT | ESTMATED QUANTITY | $\begin{aligned} & \text { AS-BULIT } \\ & \text { OUANTITY } \end{aligned}$ |
| 63 | ClEARING STTE, BRIDGE | Ls | Ls |  |
| 64 | Porous fill | cr | 620 |  |
| 65 | COARSE AGGREGATE LAYER | cr | 75 |  |
| 66 | foundaton ExCavation | cr | 769 |  |
| 67 | Foundation excavation, regulated waste | cr | 735 |  |
| 68 | COFFERDAMS | LS | LS |  |
| 69 | SOUTH ABUTMENT COFFERDAMS | Ls | LS |  |
| 70 | CONCRETE IN STRUCTURES, FOOTNGS | cr | 214 |  |
| 71 | CONCRETE IN STRUCTURES, RETANING WALLS | cr | 200 |  |
| 72 | CONCRETE IN SUBSTRUCTURES, ABUTMENT WALLS | cr | 234 |  |
| 73 | CONCRETE IN SUPERSTRUCTURE, DECK SLABS | cr | 73 |  |
| 74 | CONCRETE IN SUPERSTRUCTURE, SIDEWALKS | cr | 19 |  |
| 75 | CONCRETE IN SUPERSTRUCTURE, PARAPETS | LF | 239 |  |
| 76 | Reinforcement stel in structures, galvanized | LB | 64,000 |  |
| 77 | EPOXY WATERPROOFING SEAL COAT | SY | 31 |  |
| 78 | $21 / 2^{\prime \prime} \times 21 / 2^{\prime \prime}$ PREFORMED ELASTOMERIC JoINT SEALER | LF | 134 |  |
| 79 | SAWCUT GROOVED DECK SURFACE | SF | 2,607 |  |
| 80 | PRESTRESSED CONCRETE BOX BEAMS, (TYPE BII-36), $36^{\prime \prime}$ BY $33^{\prime \prime}$ | LF | 133 |  |
| 81 | PRESTRESSED CONCRETE BOX BEAMS, (TYPE BI-48), 48" BY 33" | LF | 794 |  |
| 82 | STRUCTURAL STEEL DECK JOINTS | $\stackrel{L}{ }$ | Ls |  |
| 83 | TEST PILES, DRIEN | LF | 360 |  |
| 84 | TEST PILES, FURNISHED | LF | 360 |  |
| 85 | CAST-IN-PLACE CONCRETE PILES, DRIVEN, 12" DIAMETER | $\stackrel{L F}{ }$ | 5,180 |  |
| 86 | CAST-IN-PLACE CONCRETE PILES, FURNISHED, 12" DIAMETER | LF | 5,180 |  |
| 87 | DYNAMIC PILE LOAD TEST | UNIT | 6 |  |
| 88 | FURNSHING EQUPMENT FOR DRVING PILES | $\stackrel{1}{ }$ | Ls |  |
| 89 | METAL RALING (1 RALL, ALUMINUM) | LF | 227 |  |
| 90 | UTLITY SUPPORT BRACKETS | UNIT | 14 |  |
| 91 | TEMPORARY UTLIT SUPPORTS | UNIT | 3 |  |
| 92 | precast panels | LS | Ls |  |
| 93 | NAME Plaque | UNIT | 1 |  |


| WORKING POINTS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| W.p. |  |  | station | OFFSET |
| 1 | 382978.91 | 317937.79 | 9+66.54 | 27.17' |
| 2 | 382978.17 | 317964.94 | 9+66.54 | 0.00' |
| 3 | 382977.32 | 317992.01 | 9+66.54 | $27.17^{\prime}$ |
| 4 | 383043.38 | 317939.67 | $10+31.04$ | 27. |
| 5 | 383042.59 | 317966.83 | $10+31.04$ | 0.0 |
|  | 383041.80 | 317993.98 | $10+31.04$ | 27.17' |











$\frac{\text { ABUTMENT SECTION } A-A}{\text { SCALE: } 3 / 8^{\prime \prime}=1^{\prime}-0^{\prime \prime}}$

$\frac{\text { ABUTMENT SECTION } B-B}{\text { SCALE: } 3 / 8^{\prime \prime}=1^{\prime}-0^{\prime \prime}}$


PYLON REINFORCEMENT
$\xrightarrow{\text { SPACE RENFORCEMENT }}$ TO AVOI PALING $L^{1-O_{n}^{\prime \prime}}$
TPA AVID RAMLING
ANCHOR BOLTS

TYPICAL
$\frac{\text { REINFORCEMENT }}{\text { N.T.S. }}$



$$
\frac{A B U T M E N T \text { PAYMENT LIMITS }}{\text { N.T.S. }} \frac{\text { WINGWALL PAYMENT LIMITS }}{\text { N.T.S. }}
$$


$\frac{\text { TYPICAL }}{\text { WINGWALL JOINT }}$

WALL JOINT NOTES:



CORK JIINT MATERAL CONFORMING
TA ASTOO SPECFICATIONS, DESGONATON
M153 HTPE

 $\frac{\text { PLASTIC WATERSTOP DETAIL }}{\text { N.T.S. }} \frac{\text { JOINT SEALING DETAIL }}{\text { N.T.S. }}$


NOTES:
COST OE BACKFILLING TO BE NCLUDED IN THE
PAY ITEM "FOUNDATON EXCAVATION"
2. COFFERDAMS (SHEETNG) SHALL BE LEFT IN





4LASS ' C' CONCRET WIL BE USED TO SEAL

 THE COST FOR PAY ITEM
STRUCTUES, FOOTNGS".
$\qquad$



DRIP NOTCH DETAIL
FOR FASCIA BEAMS

$\frac{\text { LIFTING LOOP CLAMP }}{\text { N.T.S. }}$

B12



LEGEND:



PRECAST BOX BEAM NOTES:

1. CONCRETE: SPECIFIED DESIGN COMPRESSIVE STRENGTH ( $f^{\prime} c$ c) (IN ACCORDANCE WITH THE REETEST LMMT FOR PAY
ADUUSTMENT TEMS AS SPECIFID IN TABLE 914.4


Q28 DAYS: 5000 PSI (CLASS
©TRANFEER: 4000 PS (Cluss ©TRANSERR: 4000 PSI (CLASS P)
CLASS DESIGN STRENGGH (28 DAYS): 5500 PSI (CLASS P)





3. BEAMS TO BE ERECTED BY MEANS OF LIFTING DEVCES LOCATED


5. PAYMENT FORE THE FOLLOWNG SHALL BE INCLUDED IN THE ITEM:

 EDOXY WATERPROOFNG
BEAAS ANHOR OWE
FOR AROORD
6. SHEAR KEYS TO BE SAND BLASTED PRIOR TO PLACING GROUT.

7. SUBSEQEN TO PLLCING PC.C. BEAMS, THE CONTTACTOR SHALL TAAE

8. TOP OF BEAMS to recene a "Roughened surface:
9. ALL EXPOSED CORNERS SHALL BE CHAMFERED 1", UNLESS


NOTES:

1. SEE SHEET B15 FOR EPOXY WATERPROOFING SEAL
COAT LMMIS FOR PRESTRESEO CONCRETE BEAMS.
2. For debonded strand detalls, see sheet bi4.
$\frac{\text { DIAPHRAGM DETAIL }}{\text { SCALE: } 3 / 4^{\prime \prime}=1 \cdot l^{\prime \prime}}$

CONCRETE BOX BEAM BII-36 ( $33^{\prime \prime} \times 36^{\prime \prime}$ ) -2 REQUIRED




ELASTOMERIC BEARING PAD DETAIL BII-36(33" $33^{\prime \prime \prime}$ ) BOX BEAM

SCALE: $11 / 2^{\prime \prime}=1^{1}-0^{\prime \prime}$


ELASTOMERIC BEARING PAD DETAIL $\frac{B I-48\left(33^{\prime \prime} \times 48^{\prime \prime}\right) B O X ~ B E A M}{\text { SCALE: } 11 / 2^{\prime \prime}=11^{\prime}-0^{\prime \prime}}$

$\frac{\text { SAWCUT GROOVE DETAIL }}{\text { N.T.S. }}$




$\frac{\text { FASCIA ELEVATION }}{\text { N.T.S. }}$ (B6 \& B14)
$\frac{\text { FASCIA ELEVATION (B6 }}{\text { N.T.S. }} \frac{\text { (NORAL TO THE TE) }}{\text { (N. }}$

FASCIA ELEVATION (B1)
(NOPMAL TO THE TIE)
(normal to the tie)


$3^{\prime \prime}$
MN.
GROUT FASA
TACK WELD

IN LLCCE,
REMOVED.
NOTES:

2. STEELL PLATE AD RGESS SIE MU AS




## ) <br> 

$\frac{3 / 4^{\prime \prime} \text { MIN. THICKNESS }}{\text { STEEL PLATE (GALV.) }}$ N
$\frac{\text { SECTION } B-B}{\text { N.T.S. }}$ $\left(\begin{array}{c}\text { (THRU } \\ \text { N.T.S. } \\ \text { TIE }\end{array}\right)$

教
$* B I-48\left(33^{*} \times 48^{\prime \prime}\right)$
$* * B I-36\left(33^{3} \times 36^{\prime \prime}\right)$
ESTIMATED BEAM DEFLECTION DIAGRAM
,


LL KEYWAYS WITH
SEAL WITH CLOSED CELL

| BEARING DESIGN DATA BII-36 BEAM |  |  |  |
| :---: | :---: | :---: | :---: |
| ${ }_{\text {dead }}^{\text {DEAD }}$ |  |  | $\begin{gathered} \begin{array}{c} \text { MEGGTE } \\ \text { UNEER } \\ D E A B \end{array} \end{gathered}$ |
| 32.6 KIPS | 41.2 KlPS | $37 / 8^{\prime \prime}$ | $327 / 32^{\prime \prime}$ |


| BEARING DESIGN DATA |  |  |  |
| :---: | :---: | :---: | :---: |
| DEAD LOAD |  |  |  |
| 38.9 KPS | 43.6 KIF | $37 / 8^{\prime \prime}$ | $327 / 32^{\prime \prime}$ |

B15






WEST PARAPET ELEVATION (LOOKNNG EAST)
SCALE: $1 / 44^{\prime \prime}=1 l^{\prime}-0^{\prime \prime}$


EAST PARAPET ELEVATION


$\frac{\text { NAME } P L A Q U E \text { DETAIL }}{\text { N.TS. }}$

PARAPET/PLAQUE NOTES:

1. PLAQUE SHALL be polished black grante of $1^{\prime \prime \pm} \pm$ thickness.
2. PLAOUE SHALL BE RECESSED IN PARAPET TO PROVIDE FOR A FLUSH
3. ATACHMENT STUDS FOR PLAOUE AS SUPPLIED BY PLAQUE

4. provide rubbings prior to manufacturing of plaque.
5. COST OF PLAQUE AND INSTALLATION SHALL BE INCLUDED IN THE
6. BRIDGE PLAAUE TO BE MOUNTED AS SHOWN, OR AS DIRECTED BY
7. GUIDE RALL ATTAAHMENTS AND ALUMINUM BRIDGE RALLNG NOT
8. THE ENGRAVING ON THE PLAQUE SHALL BE APPROVED BY THE
COUNTY ENGNEER PRIOR TO MANUFACTURNG.


PARTIAL ELEVATION OF
$\frac{\text { INSIDE FACE OF EAST PARAPET }}{\text { N.T.S. }}$




