

**OFFICE OF THE CHIEF ENGINEER (W), CAD, BIKANER**

No. F. 3069 / CE (W) D - III / 1497

Dated: 12.1.2017

**OFFICE ORDER**

The existing provision under clause 3.08 in the design manual as issued for IGNP Stage-II project dated 22.10.1992 is ammended and shall be substituted with the following :-

“ For patches up to 5 bighas either in an individual square or in more than one square at the tailend, suitable naka and unlined water course will be provided.

In case CCA is more than 5 bighas in one or more than one square at the tail end, suitable naka and lined water course will be provided”

This shall be applicable to all ongoing projects of this organisation.

*sdl*

Chief Engineer (W),  
CAD, Bikaner

No. F 3069/CE(W) D-III/1498 - 1527

Dated: 12.1.2017

Copy submitted / forwarded to the following for information and necessary action please :-

- 1- Special Assistant to Hon'ble Minister Water Resources Department, Rajasthan, Jaipur
- 2- P S to Secretary , CAD and WU Department, Rajasthan, Jaipur.
- 3- Area Development Commissioner, IGNP, Bikaner.
- 4- Financial Advisor, CAD, Bikaner.
- 5- Superintending Engineer.....Circle, .....
- 6- Chief Accounts Officer, O/o the Chief Engineer, CAD, Bikaner.
- 7- Executive Engineer,.....Div.....
- 8- Executive Engineer (D&M) / (D-III)
- 9- CDM, O/o the Chief Engineer, CAD, Bikaner.

**CHIEF ENGINEER(W)**

12.1.17.

**OFFICE OF THE CHIEF ENGINEER (W), CAD, BIKANER**

No.T- 1722

Dated- 9.2.17


**OFFICE ORDER**

For achieveing better stability, the existing standard brick masonry sections I to X of water courses stands revised and modified as shown in the attached drawing. Corresponding details of quantities of different items for the modified brick masonry sections shall be annexed as CHAPTER-II A with the Basic Schedule of Rates for C.A.D. (WEST), Bikaner 2012.

It will not effect the past contract and estimates. This shall be applicable for new contracts / estimate in all ongoing projects.

Enclosed – (i) Modified Drawing

(ii) Chapter –II- A

  
Chief Engineer (West),  
CAD, Bikaner

No.T-

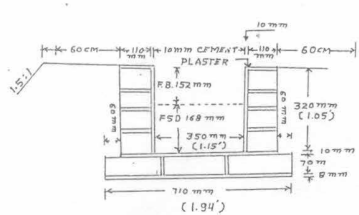
Dated-

Copy submitted / forwarded to:-

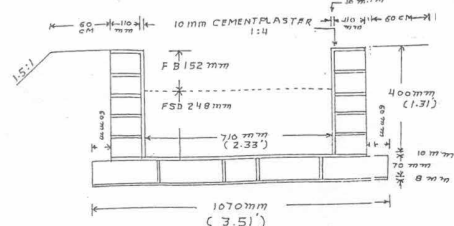
- 1- Area Development Commissioner, CAD, IGNP, Bikaner.
- 2- Financial Advisor, CAD, Bikaner.
- 3- Superintending Engineer, CAD.....Circle,.....
- 4- Superintending Engineer, WR,.....
- 5- Superintending Engineer, F.T. &Q.C. Circle, Suratgarh.
- 6- Superintending Engineer (A), O/o the CE(W),CAD, Bikaner.
- 7- Executive Engineer, CAD.....Dn.....
- 8- Executive Engineer, WR .....
- 9- Chief Accounts Officer, O/o the CE(W),CAD, Bikaner.
- 10- D&M Section / D-III Section / CDM Section, O/o the CE(W),CAD, Bikaner.

  
**CHIEF ENGINEER(W)**

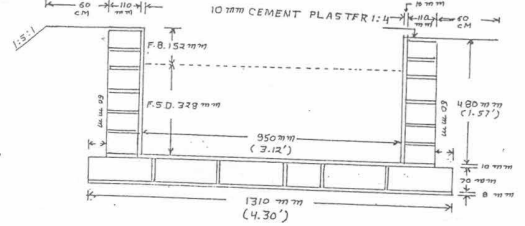
# MODIFIED SECTIONS (I TO X) FOR BRICK MASONRY RECTANGULAR SECTION FOR WATER COURSES



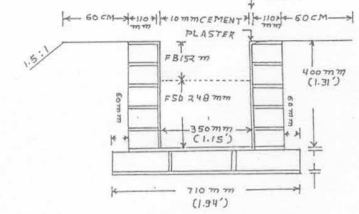
**SECTION - I**  
1.15' X 1.05'



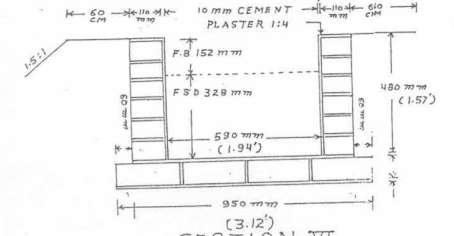
**SECTION V**  
2.33' X 1.31'



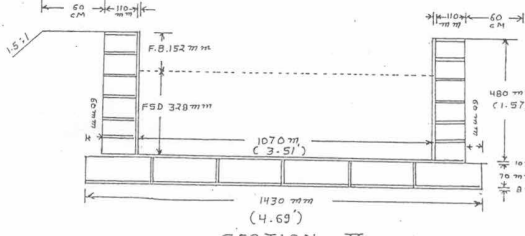
**SECTION IX**  
3.12' X 1.57'



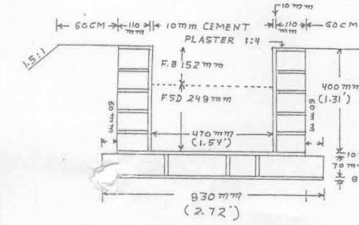
**SECTION - II**  
1.15' X 1.31'



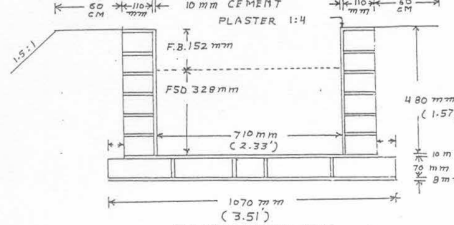
**SECTION VI**  
1.94' X 1.57'



**SECTION X**  
3.51' X 1.57'

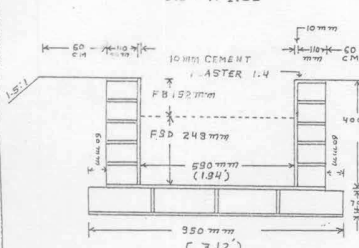


**SECTION III**  
1.54' X 1.31'

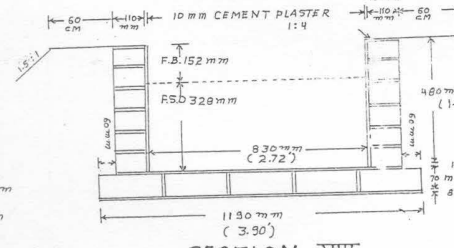


**SECTION VII**  
2.33' X 1.57'

SECTION	MAX. DEPTH IN M.	WIDTH IN M.	MAXIMUM AREA OF FLOW IN SQM.
I	0.1680	0.3500	0.0588
II	0.2480	0.3500	0.0868
III	0.2480	0.4700	0.11650
IV	0.2480	0.5900	0.14630
V	0.2480	0.7100	0.17600
VI	0.3280	0.5900	0.19350
VII	0.3280	0.7100	0.23280
VIII	0.3280	0.8300	0.27220
IX	0.3280	0.9500	0.31160
X	0.3280	1.070	0.35096

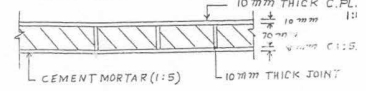


**SECTION IV**  
1.94' X 1.31'



**SECTION VIII**  
2.72' X 1.57'

**DETAIL OF BED**



OFFICE OF THE CHIEF ENGINEER (West)  
CAD BIKANER

APPROVED BY

DRAWN BY

(HARI RAM)

(ASHOK KUMAR)  
ASSISTANT ENGINEER (II)  
% CHIEF ENGINEER (ST)  
CAD BIKANER

(ASHOK KUMAR)  
EXECUTIVE ENGINEER (III)  
% CHIEF ENGINEER (WEST)  
CAD BIKANER

(GATESH KUMAR)  
CHIEF ENGINEER (I)  
CAD BIKANER

NOTE :-

FOR AMAR SINGH SUB BR/  
GANG/ BHAKRA PROJ.      FOR OTHER PROJECT

BANK WIDTH (B)	0.60 metrey	1.00 metrey
SIDE SLOPE (S)	1.5	2

**OFFICE OF THE CHIEF ENGINEER (W), CAD, BIKANER**

No.T- 1522/CE/CDM/1722

Dated- 9.7.2017

**OFFICE ORDER**

For achieving better stability, the existing standard brick masonry sections I to X of water courses stands revised and modified as shown in the attached drawing. Corresponding details of quantities of different items for the modified brick masonry sections shall be annexed as CHAPTER-II A with the Basic Schedule of Rates for C.A.D. (WEST), Bikaner 2012.

It will not effect the past contract and estimates. This shall be applicable for new contracts / estimate in all ongoing projects.

Enclosed – (i) Modified Drawing

(ii) Chapter –II- A

*me*

Chief Engineer (West),  
CAD, Bikaner

No.T- 1522/CE/CDM/1722-48

Dated- 9.7.2017

Copy submitted / forwarded to:-

- 1- Area Development Commissioner, CAD, IGNP, Bikaner.
- 2- Financial Advisor, CAD, Bikaner.
- 3- Superintending Engineer, CAD.....Circle,.....
- 4- Superintending Engineer, WR,.....
- 5- Superintending Engineer, F.T. &Q.C. Circle, Suratgarh.
- 6- Superintending Engineer (A), O/o the CE(W),CAD, Bikaner.
- 7- Executive Engineer, CAD.....Dn.....
- 8- Executive Engineer, WR .....
- 9- Chief Accounts Officer, O/o the CE(W),CAD, Bikaner.
- 10- D&M Section / D-III Section / CDM Section, O/o the CE(W),CAD, Bikaner.

  
CHIEF ENGINEER (W)

**OFFICE OF THE CHIEF ENGINEER (W), CAD, BIKANER**

No.T-1722

Dated- 9.2.17

**OFFICE ORDER**

For achieving better stability, the existing standard brick masonry sections I to X of water courses stands revised and modified as shown in the attached drawing. Corresponding details of quantities of different items for the modified brick masonry sections shall be annexed as CHAPTER-II A with the Basic Schedule of Rates for C.A.D. (WEST), Bikaner 2012.

It will not effect the past contract and estimates. This shall be applicable for new contracts / estimate in all ongoing projects.

Enclosed – (i) Modified Drawing

(ii) Chapter –II- A

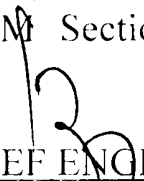
  
o/c Chief Engineer (West),  
CAD, Bikaner

No.T- 1723 - 48

Dated- 9.2.17

Copy submitted / forwarded to:-

- 1- Area Development Commissioner, CAD, IGNP, Bikaner.
- 2- Financial Advisor, CAD, Bikaner.
- 3- Superintending Engineer, CAD.....Circle,.....
- 4- Superintending Engineer, WR,.....
- 5- Superintending Engineer, F.T. &Q.C. Circle, Suratgarh.
- 6- Superintending Engineer (A), O/o the CE(W),CAD, Bikaner.
- 7- Executive Engineer, CAD.....Dn.....
- 8- Executive Engineer, WR .....
- 9- Chief Accounts Officer, O/o the CE(W),CAD, Bikaner.
- 10- D&M Section / D-III Section / CDM Section, O/o the CE(W),CAD, Bikaner.

  
o/c CHIEF ENGINEER(W)

# कार्यालय मुख्य अभियन्ता (पश्चिम) सीएडी, बीकानेर

क्रमांक-टी-1522/मुअ/मुप्रा/सिक्षेवि/

दिनांक-

## संशोधन आदेश

इस कार्यालय के आदेश क्रमांक 1722 दिनांक 09.02.2017 के साथ संलग्न Modified Drawing पर नोट में अंकित for other project में Bank Width 1.00 मीटर के स्थान पर 0.60 मीटर व साईड स्लोप 2 के स्थान पर 1.5 पढा जावे

o/c मुख्य अभियन्ता (पश्चिम),  
सीएडी, बीकानेर

क्रमांक-टी-1522/मुअ/मुप्रा/सिक्षेवि/ 1803-33

दिनांक- 16-2-2016

प्रतिलिपि निम्नलिखित को इस कार्यालय के पृष्ठांकित पत्रांक 1723-48 दिनांक 09.02.2017 के संदर्भ में सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रस्तुत /प्रेषित है :-

- 1- आयुक्त, क्षेत्रीय विकास, इंगानप, बीकानेर ।
- 2- अधीक्षण अभियन्ता, सिक्षेवि, ~~समझ~~ वृत..... ।
- 3- अधीक्षण अभियन्ता, जल संसाधन, नोहर / श्रीगंगानगर ।
- 4- अधीक्षण अभियन्ता, सिक्षेवि, फी0 टे0 एवं गु0 नि0 वृत, सूरतगढ.
- 5- अधीक्षण अभियन्ता (प्रशासन), कार्यालय हाजा ।
- 6- अधिशाषी अभियन्ता, सिक्षेवि, ~~समझ~~ खंड.....
- 7- अधिशाषी अभियन्ता, जल संसाधन खंड, नोहर / भादरा / श्रीगंगानगर ।
- 8- मुख्य लेखाधिकारी, कार्यालय हाजा ।
- 9- अधिशाषी अभियन्ता (डीएण्डएम) / (डी-III), कार्यालय हाजा ।
- 10- विहित्य सलाहकार सी.ए.डी. बीकानेर

o/c मुख्य अभियन्ता (पश्चिम),

OFFICE OF THE CHIEF ENGINEER (W), CAD, BIKANER

No. T-1522/CE/CDM/ 1894

Dated 23.02.2017

OFFICE ORDER

For achieving better bonding and to eliminate the possibility of crack development, the typical layout plan for brick masonry in the bed of rectangular section of water course to be adopted, shall henceforth be adopted on all works, as per the attached approved drawing.

This order shall come into force with immediate effect.

Enclosed – Drawing.

  
Chief Engineer (W),  
CAD, Bikaner.

*o/c*  
No. T-1522/CE/CDM/ 1895- 1975

Dated 23.02.2017

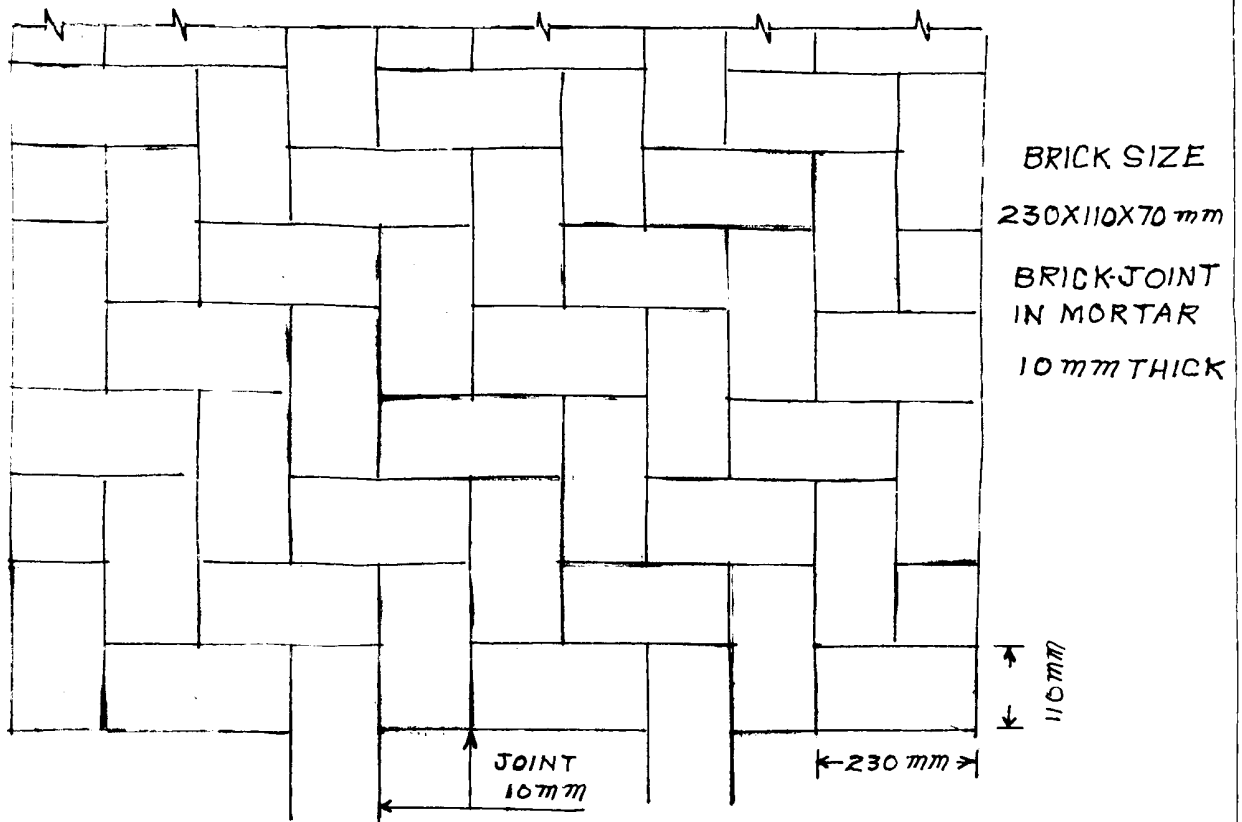
Copy to :-

- 1- Area Development Commissioner, CAD, IGNP, Bikaner.
- 2- Financial Advisor, CAD, Bikaner.
- 3- Superintending Engineer, CAD.....Circle,.....
- 4- Superintending Engineer, WR,.....
- 5- Superintending Engineer, F.T. (V) & Q.C., Suratgarh
- 6- Superintending Engineer, (Adm.), O/o the CE(W),CAD,BKN.
- 7- Executive Engineer,CAD,.....Dn.....
- 8- Executive Engineer, WR..... Dn.....
- 9- Chief Accnts Officer, O/o the CE(W),CAD,BKN.
- 10- D&M Section / D-III Section / CDM Section, O/o the CE(W),CAD,BKN.

Encl: One

*o/c*  
CHIEF ENGINEER(W)

# TYPICAL LAYOUT PLAN FOR BRICK MASONRY IN THE BED OF RECTANGULAR SECTION OF WATERCOURSES.



← 1310 mm SECTION IX →

$$110 + 10 + 230 + 10 + 110 + 10 + 110 + 10 + 230 + 10 + 110 + 10 + 110 + 10 + 230 + 10 + 110 + 10 + 230 = 1310 \text{ mm}$$

← 1190 mm SECTION VIII →

$$110 + 10 + 110 + 10 + 230 + 10 + 110 + 10 + 110 + 10 + 230 + 10 + 110 + 10 + 110 = 1190 \text{ mm}$$

← 1070 mm SECT VII & V →

$$110 + 10 + 110 + 10 + 110 + 10 + 230 + 10 + 110 + 10 + 10 + 230 = 1070 \text{ mm}$$

← 950 mm SECTION VI & IV →

$$110 + 10 + 110 + 10 + 110 + 10 + 230 + 10 + 110 + 10 + 110 = 950 \text{ mm}$$

*Bjan*  
AEN (D&M-IV)

O/O CHIEF ENGINEER(W)

CAD BIKANER

*21*  
EX. ENGINEER-III

O/O CHIEF ENGINEER(W)

CAD BIKANER

*[Signature]*  
CHIEF ENGINEER (W)

CAD BIKANER