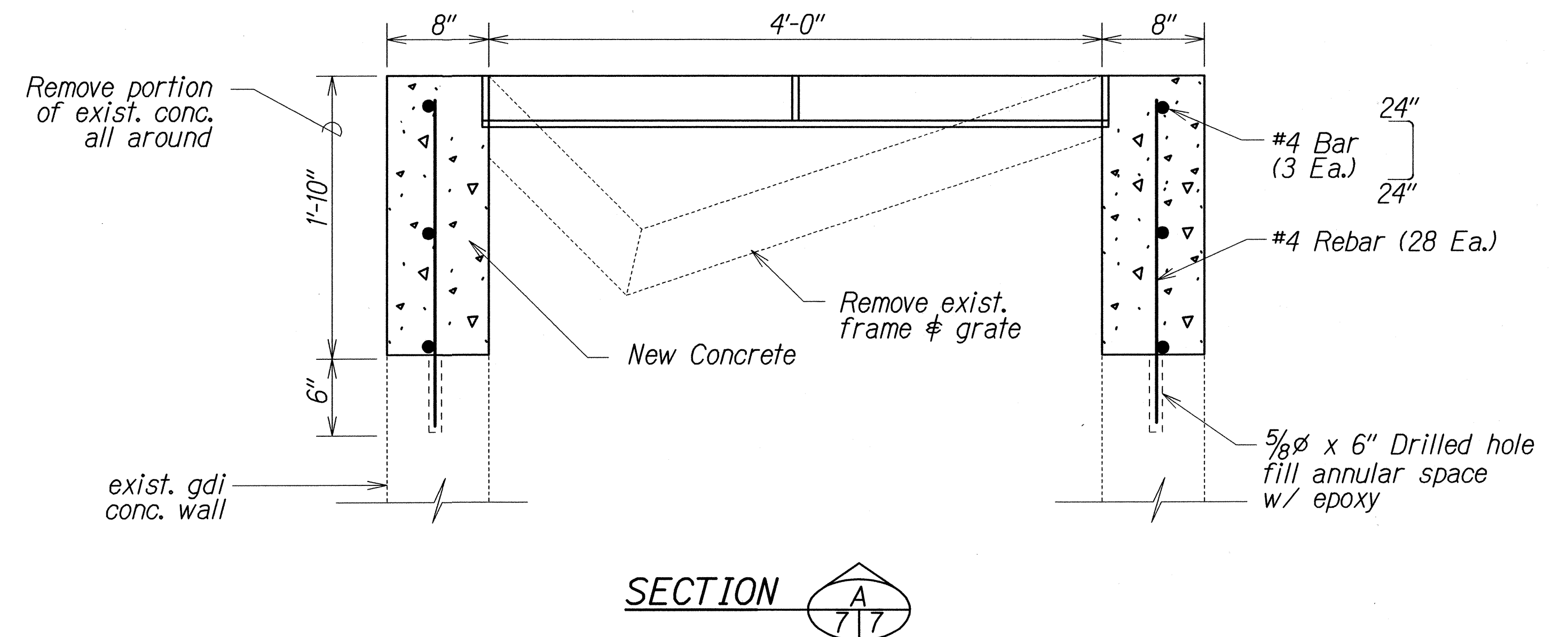
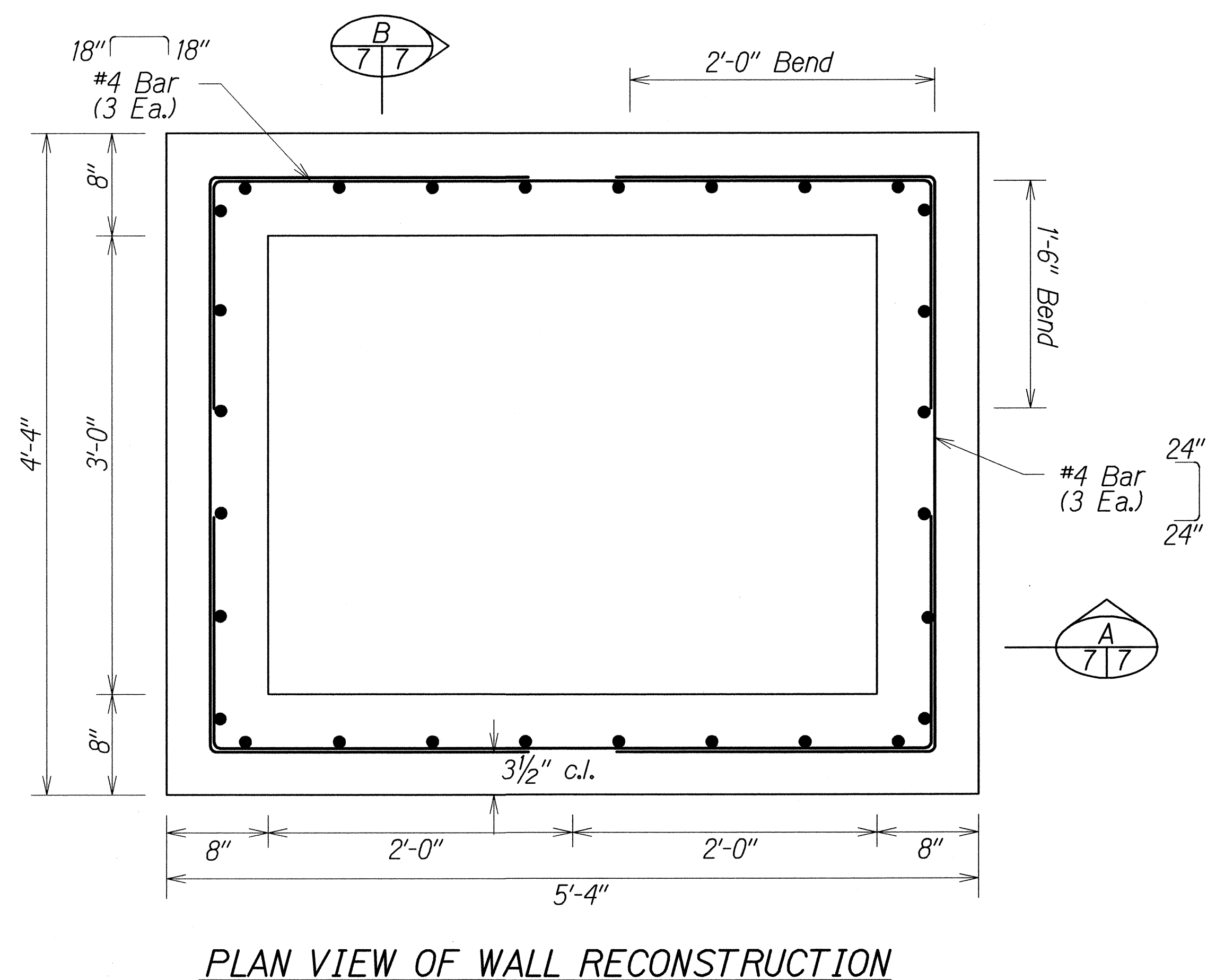
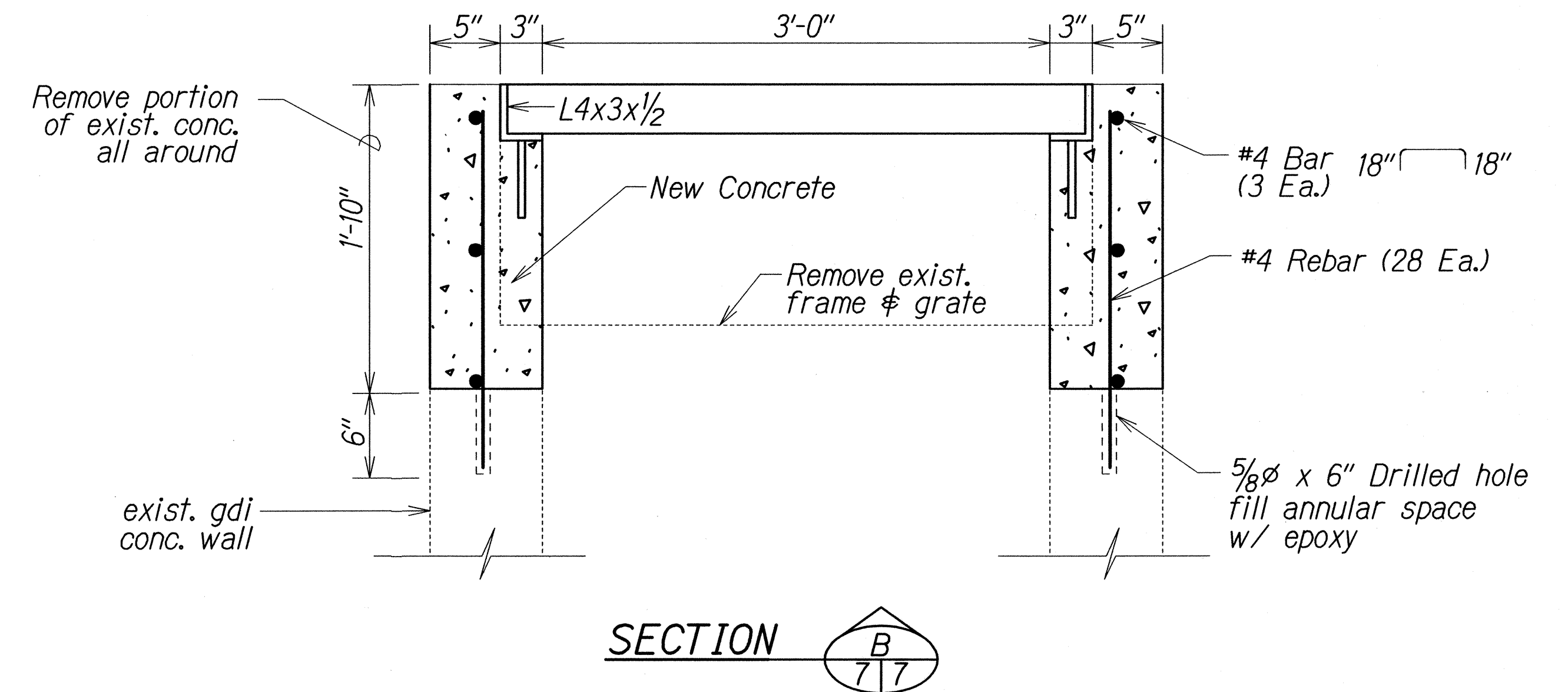
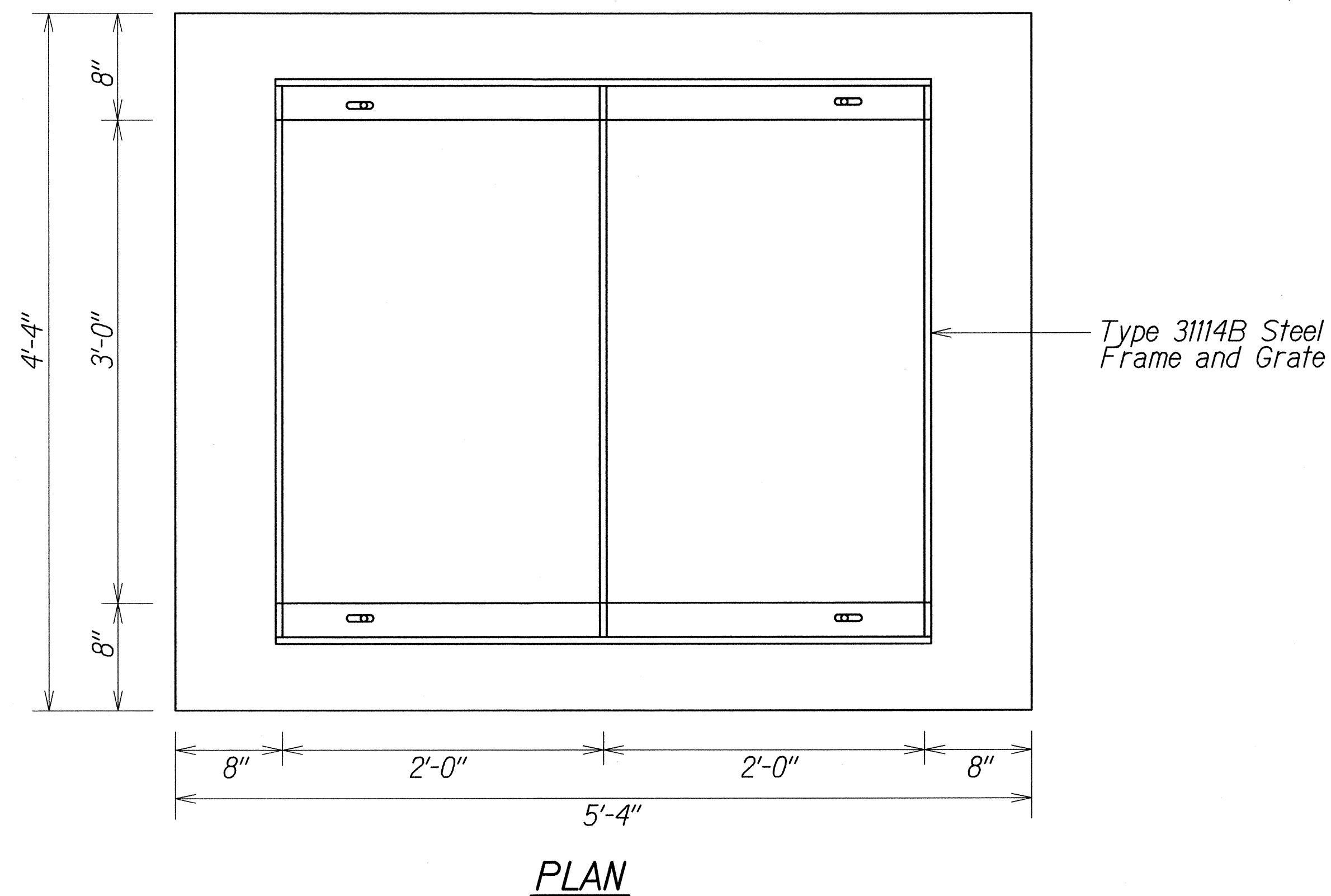


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56D-01-13	2013	8	23



GENERAL NOTES

1. All welds 3/8" unless otherwise noted.
2. Frames shall be zinc coated after fabrication.
3. Areas that are field welded shall be field galvanized in accordance with standard specs.
4. See Std. Plan B-01 for additional notes.
5. Contractor shall verify dimensions prior to ordering material.
6. Steel frame shall match elavation of new A.C. Pavement.
7. Steel frame and grate detail, refer to Plan Sht. No. 10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAIL

KUHIO HIGHWAY

Intersection Improvements at Kapaka Street

Project No. 56D-01-13

Not to Scale

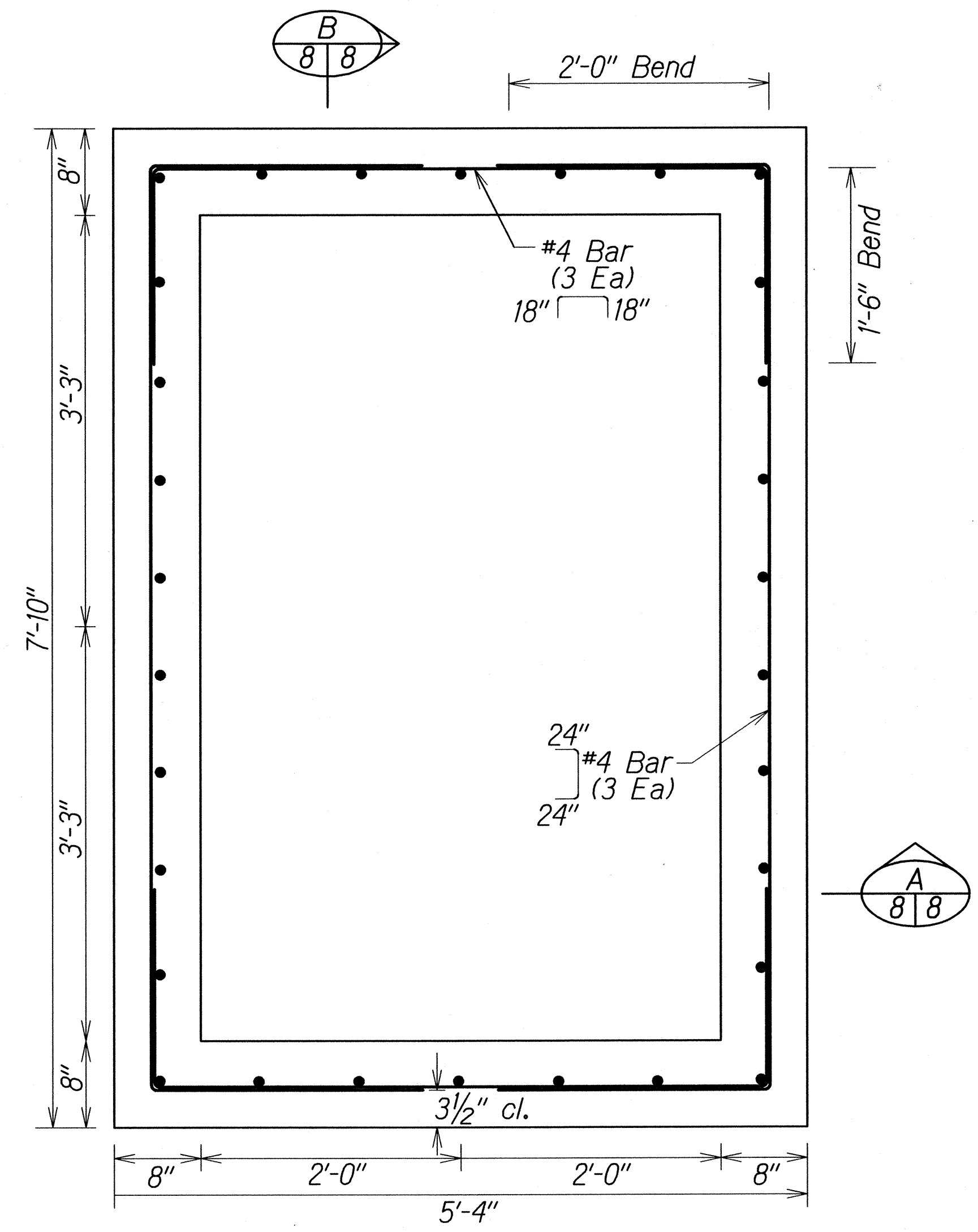
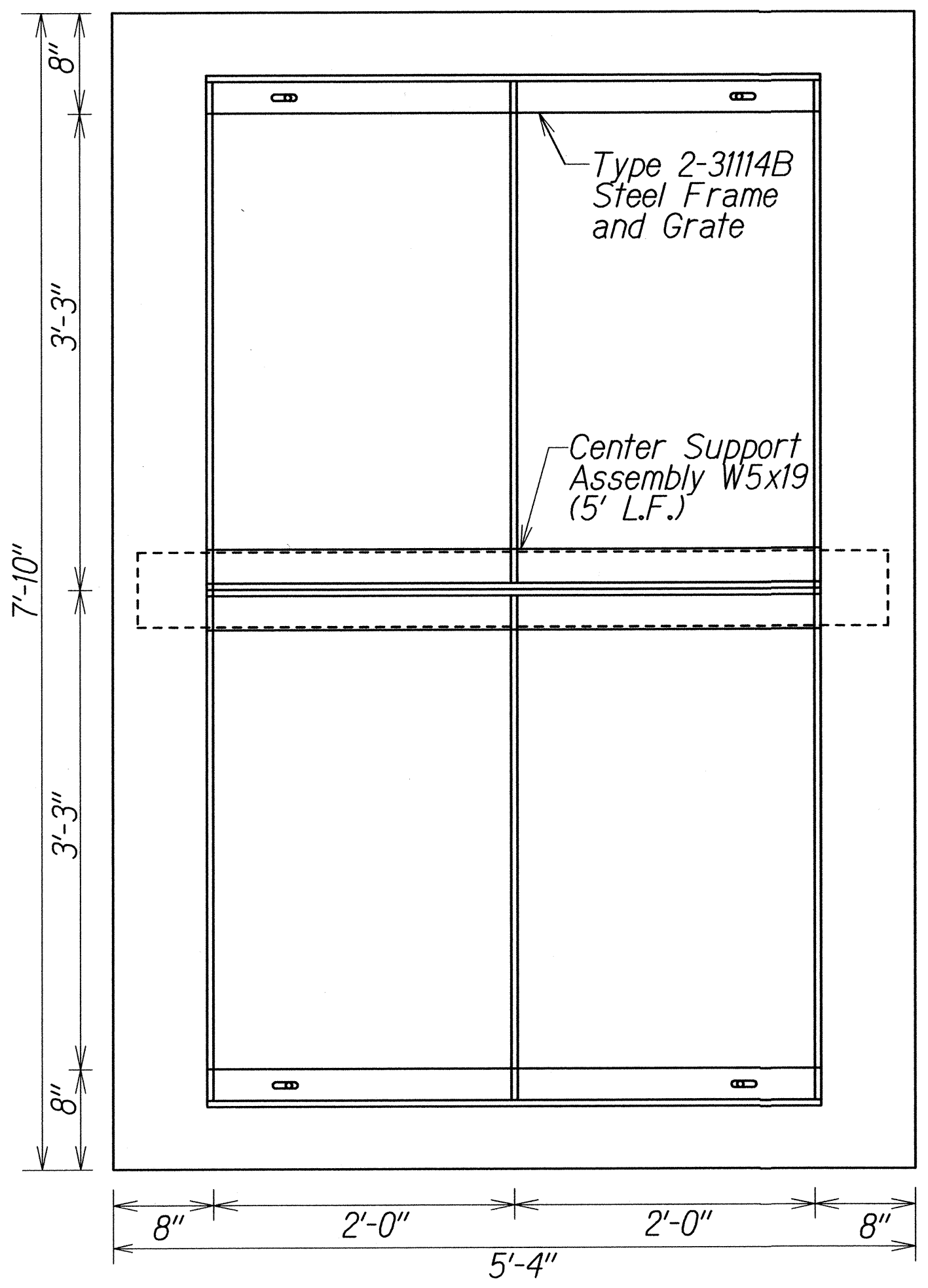
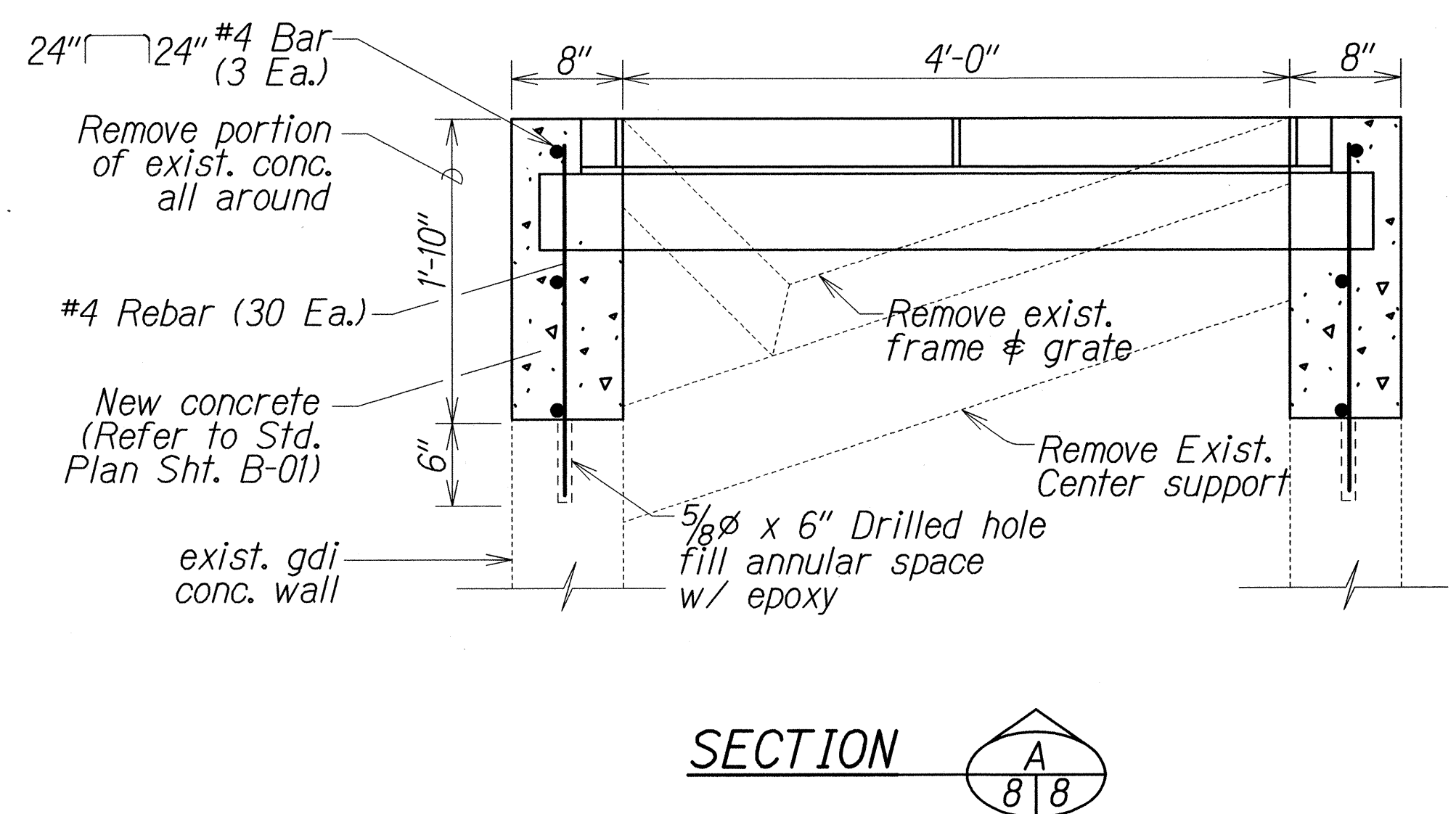
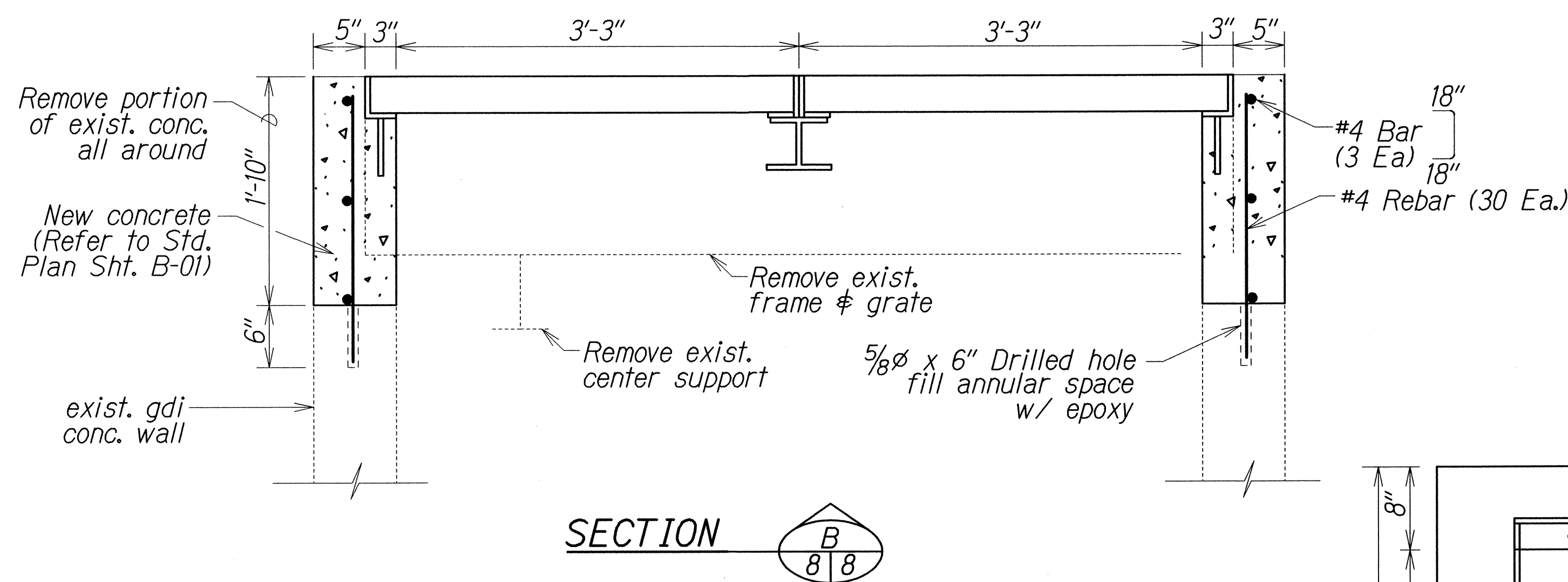
Date: January 2013

ORIGINAL PLAN	DATE
DESIGNED BY	04/11
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

RECONSTRUCTION DETAILS OF EXISTING TYPE 31114B GRATED DROP INLET

Not to Scale

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56D-01-13	2013	9	23



GENERAL NOTES

1. All welds 3/8" unless otherwise noted.
2. Frames and center support assembly shall be zinc coated after fabrication.
3. Areas that are field welded shall be field galvanized in accordance with standard specs.
4. See Std. Plan B-01 for additional notes.
5. Contractor shall verify dimensions prior to ordering material.
6. Steel frame shall match elavation of new A.C. Pavement.
7. Steel frame and grate detail, refer to Plan Sht. No. 10

RECONSTRUCTIONDETAILS OF EXISTING TYPE 2-31114B GRATED DROP INLET

Not to Scale

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAIL

KUHIO HIGHWAY

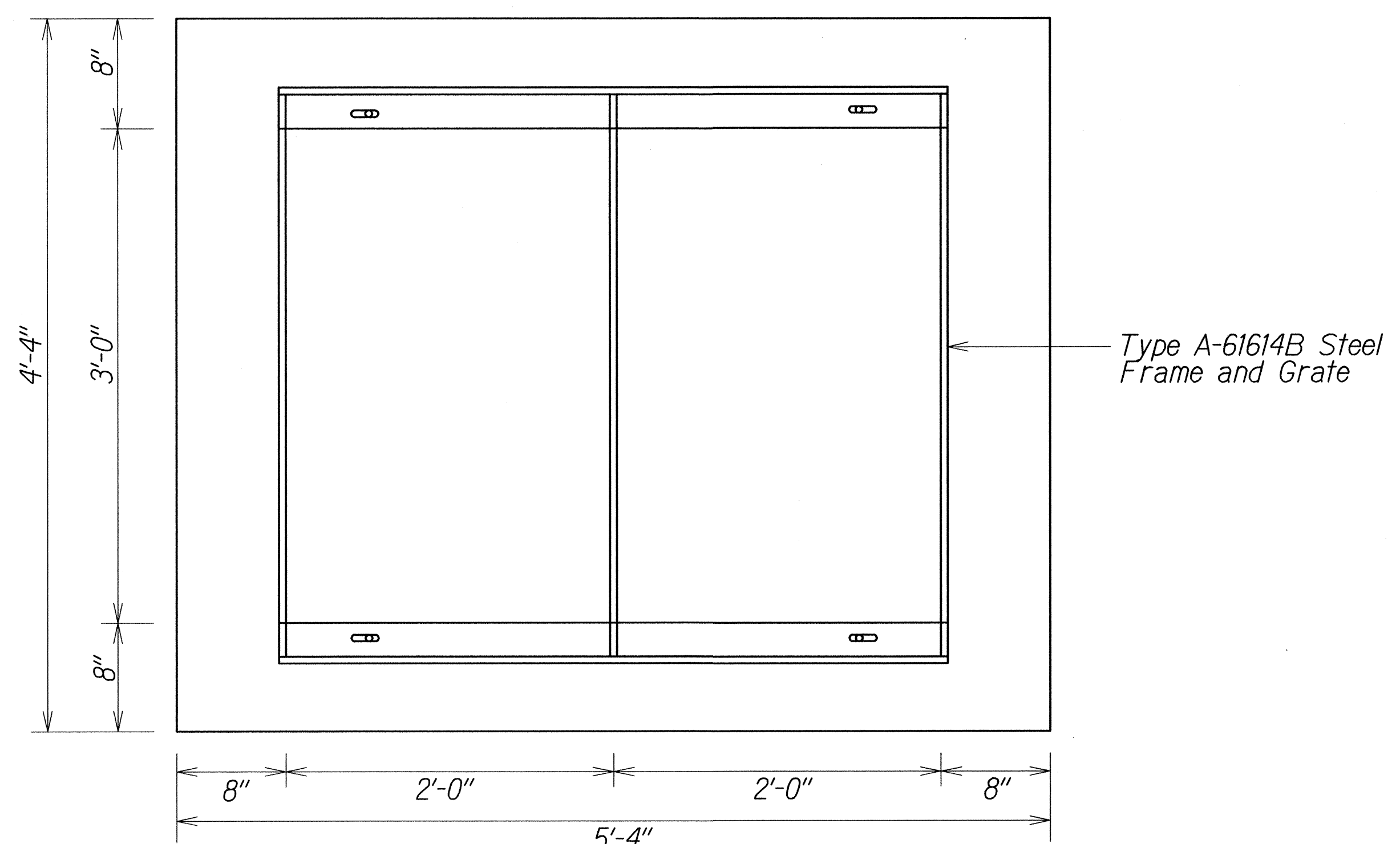
Intersection Improvements at Kapaka Street

Project No. 56D-01-13

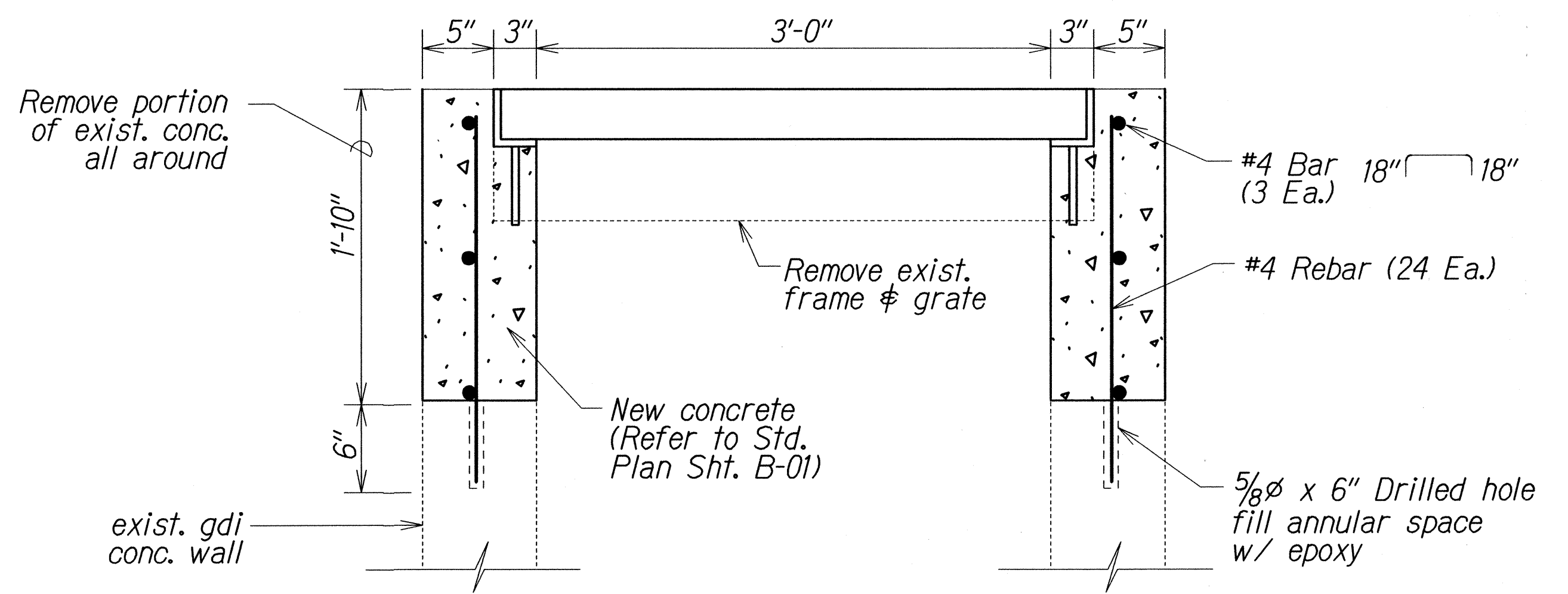
Not to Scale Date: January 2013

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

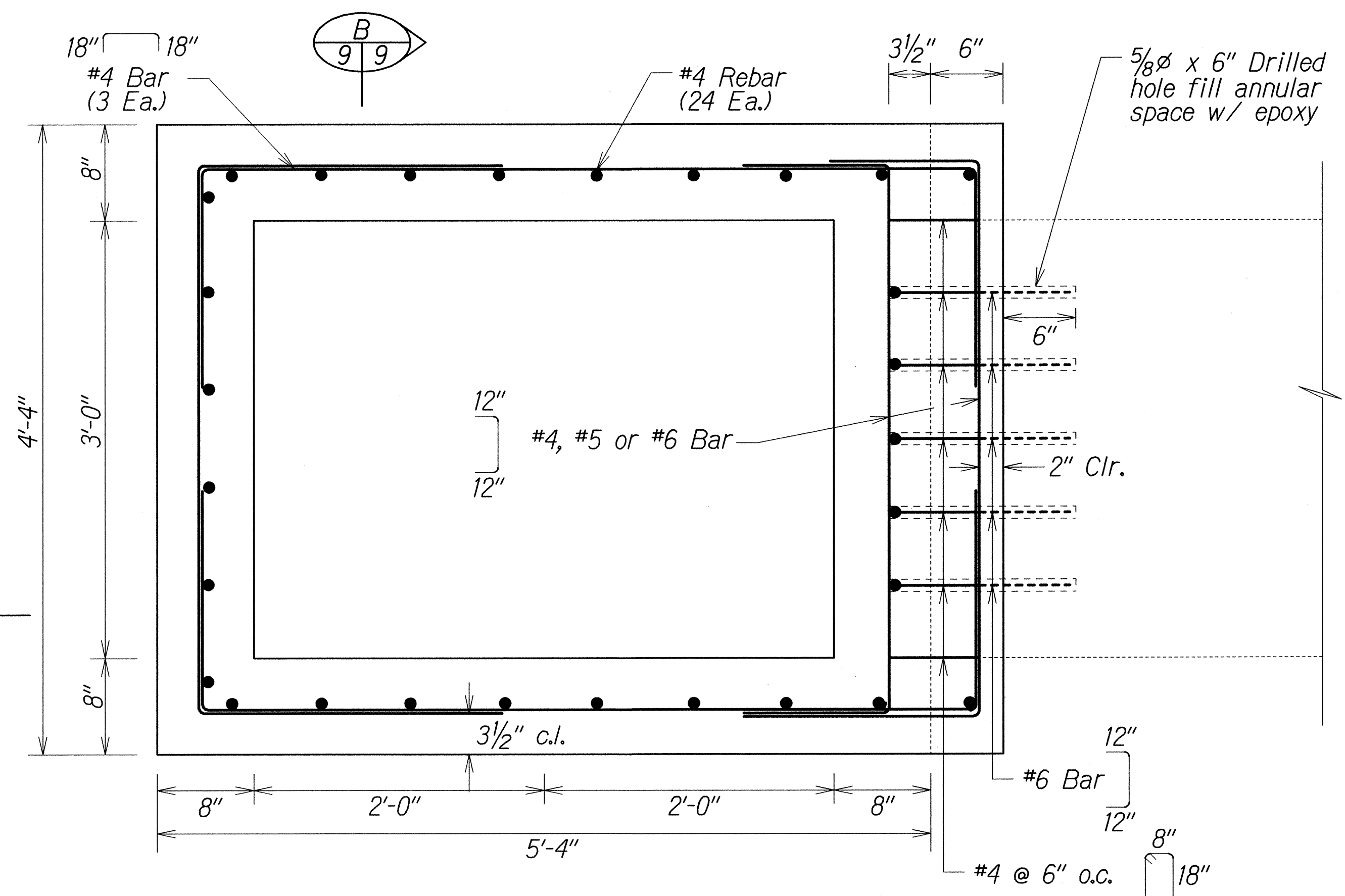
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56D-01-13	2013	10	23



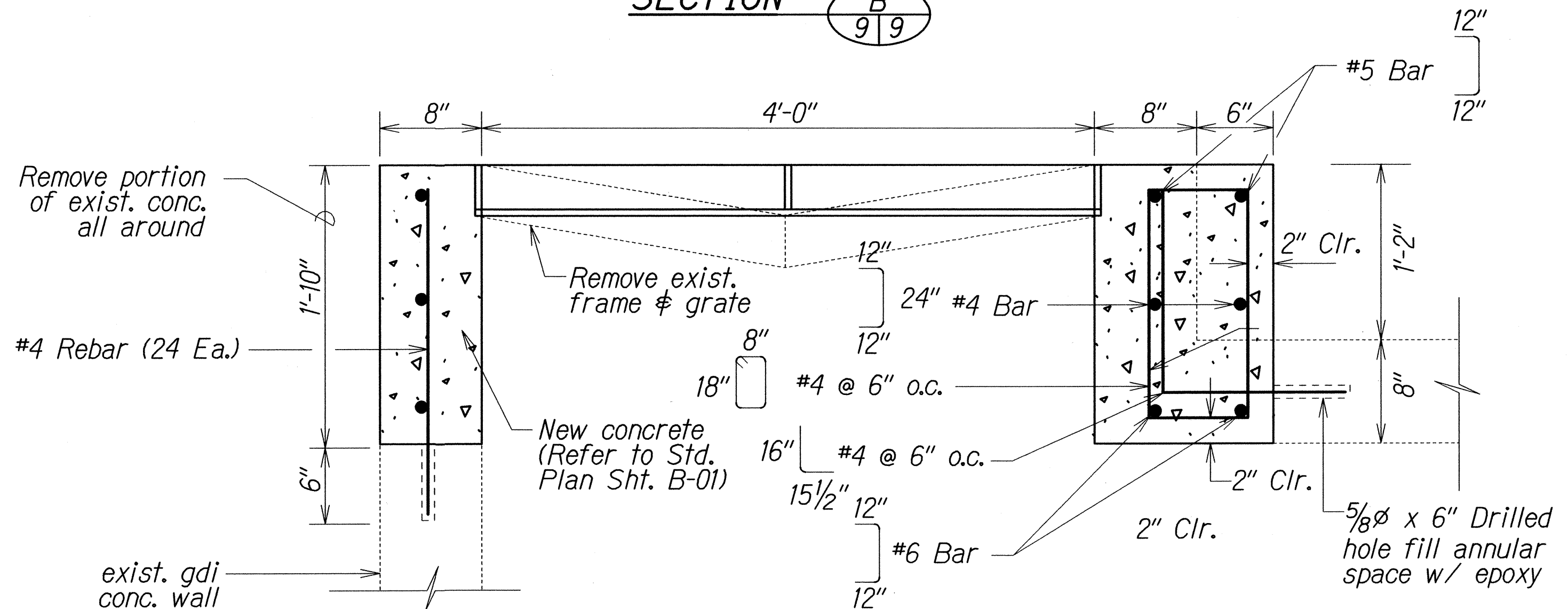
PLAN



SECTION B



PLAN VIEW OF WALL RECONSTRUCTION



SECTION A

GENERAL NOTES

1. All welds $\frac{3}{8}$ " unless otherwise noted.
2. Frames shall be zinc coated after fabrication.
3. Areas that are field welded shall be field galvanized in accordance with standard specs.
4. See Std. Plan B-01 for additional notes.
5. Contractor shall verify dimensions prior to ordering material.
6. Steel frame shall match elavation of new A.C. Pavement.
7. Steel frame and grate detail, refer to Plan Sht. No. 10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAIL

KUHIO HIGHWAY
Intersection Improvements at Kapaka Street
Project No. 56D-01-13

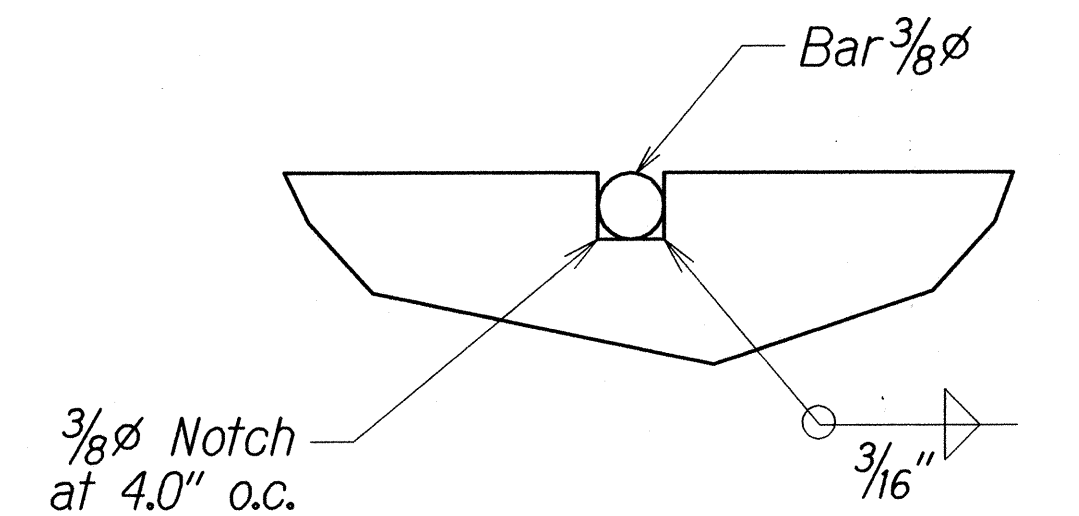
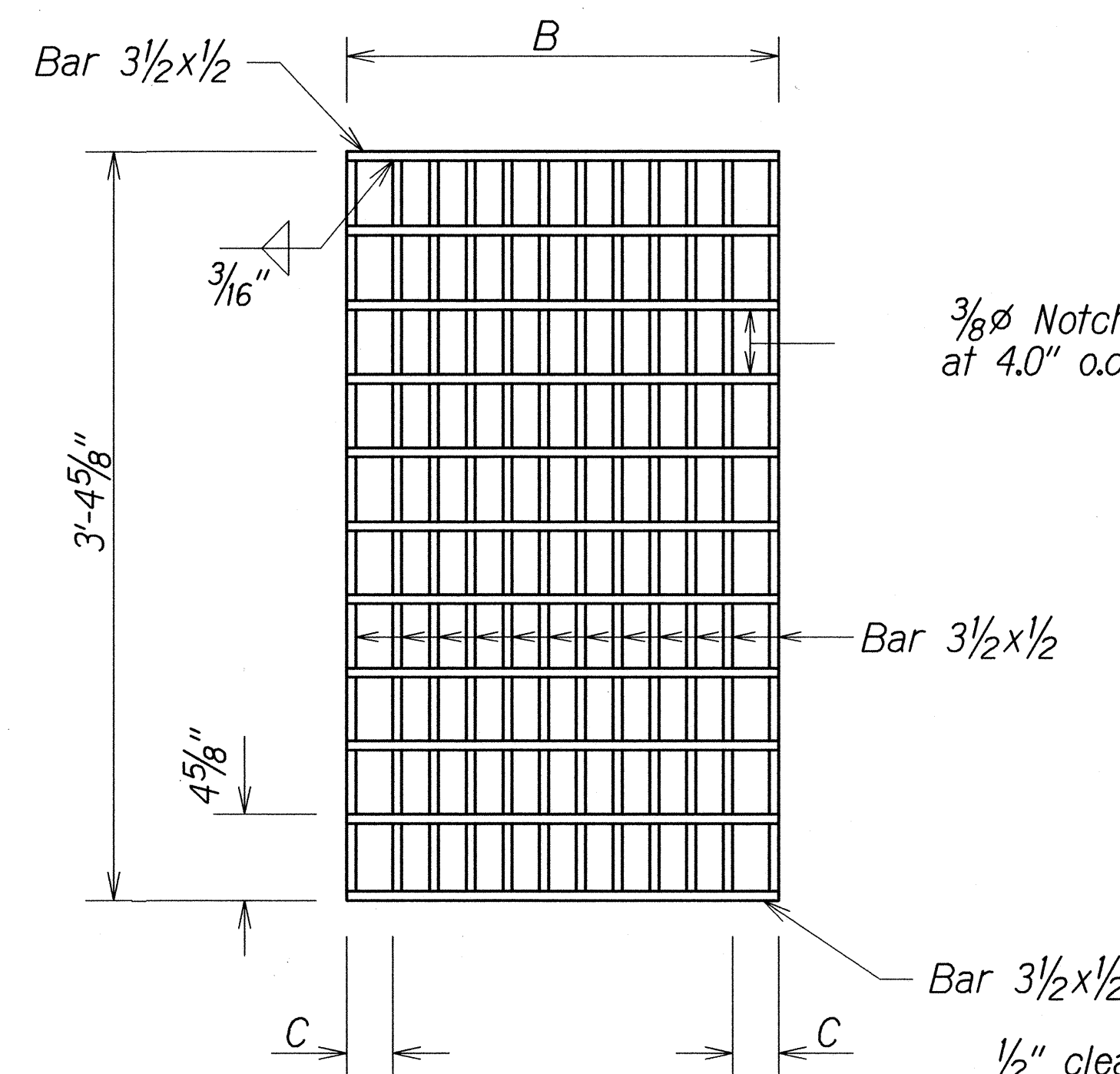
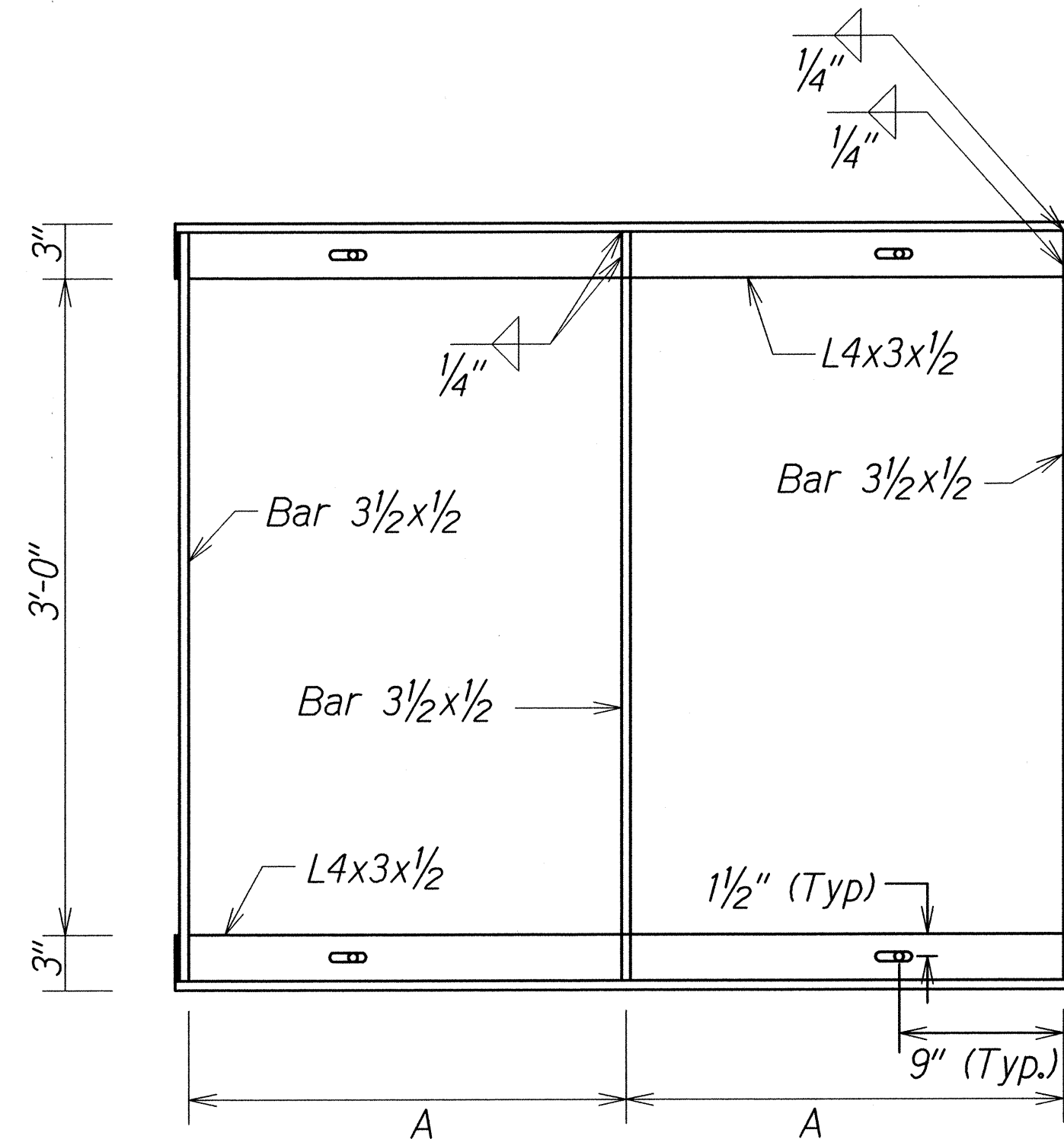
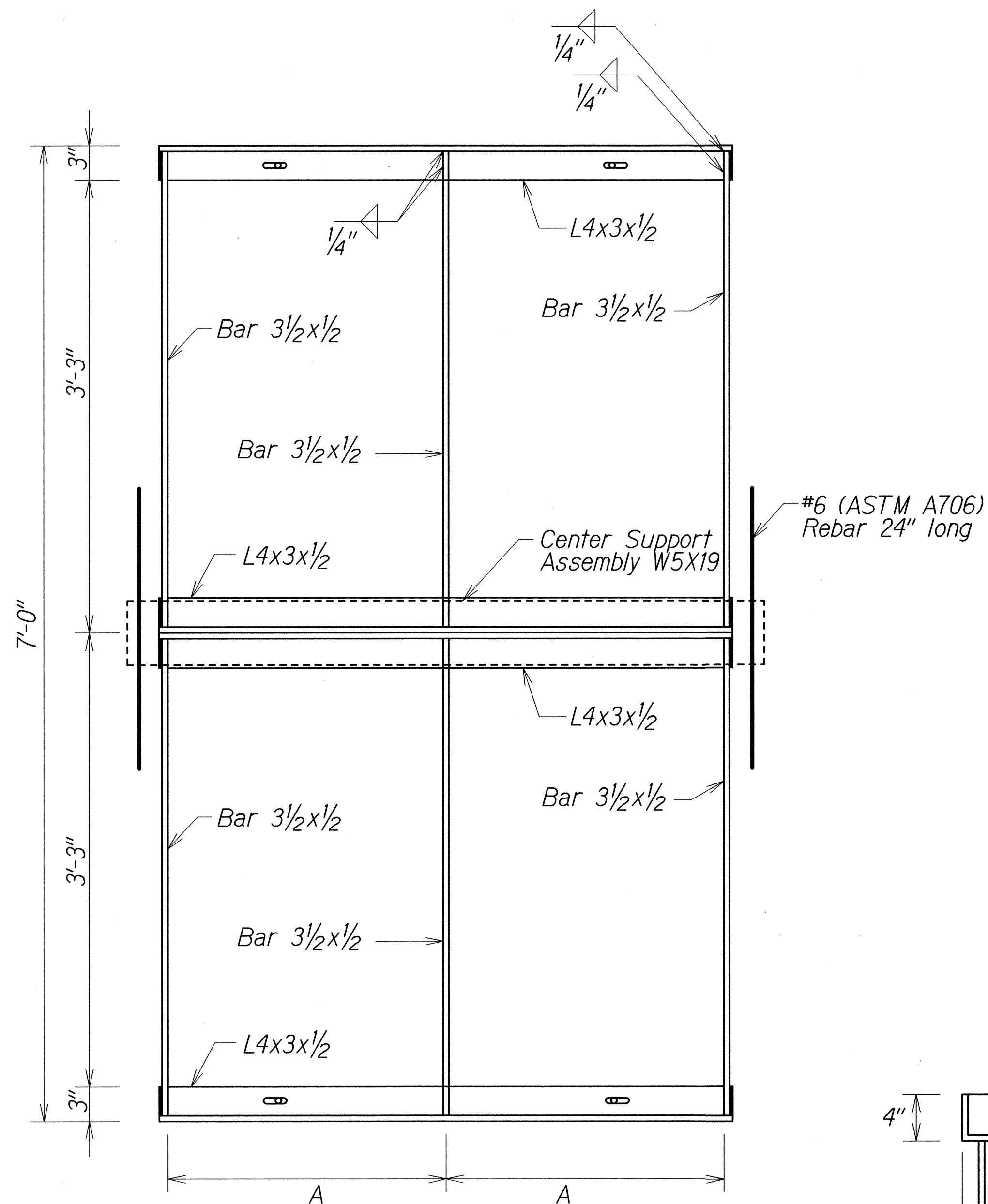
Not to Scale
Date: January 2013

SHEET No. 3 OF 4 SHEETS

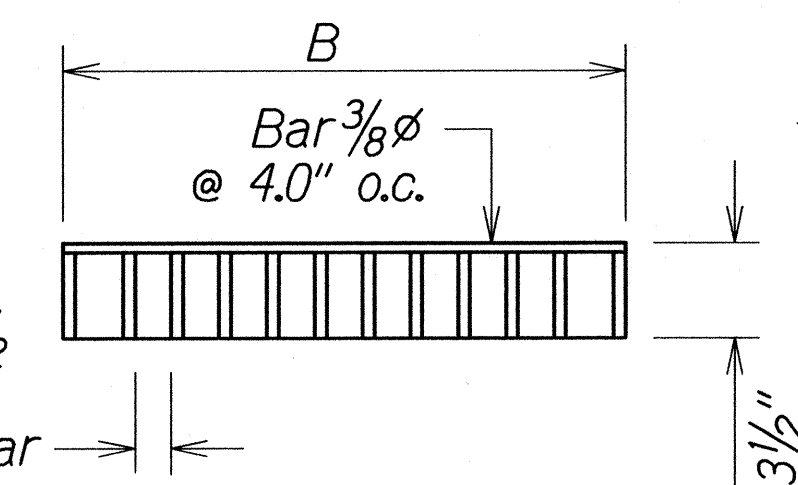
RECONSTRUCTION DETAILS OF EXISTING TYPE A-61614B GRATED DROP INLET
Not to Scale

ORIGINAL PLAN	DATE
DESIGNED BY	04/11
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56D-01-13	2013	11	23

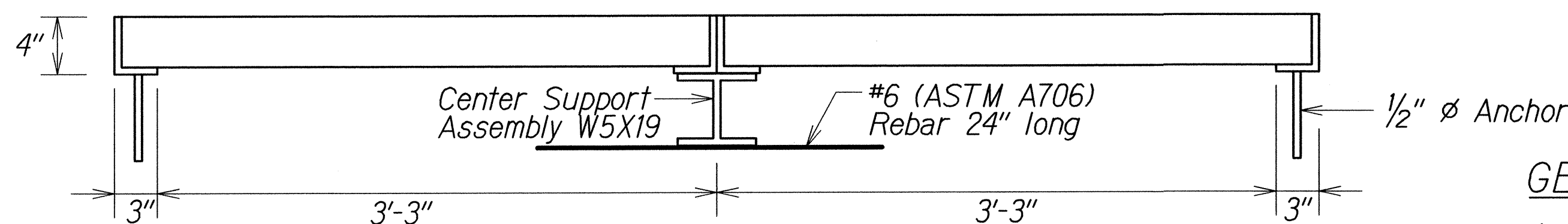


NOTCH DETAIL
Not to Scale



SECTION
Not to Scale

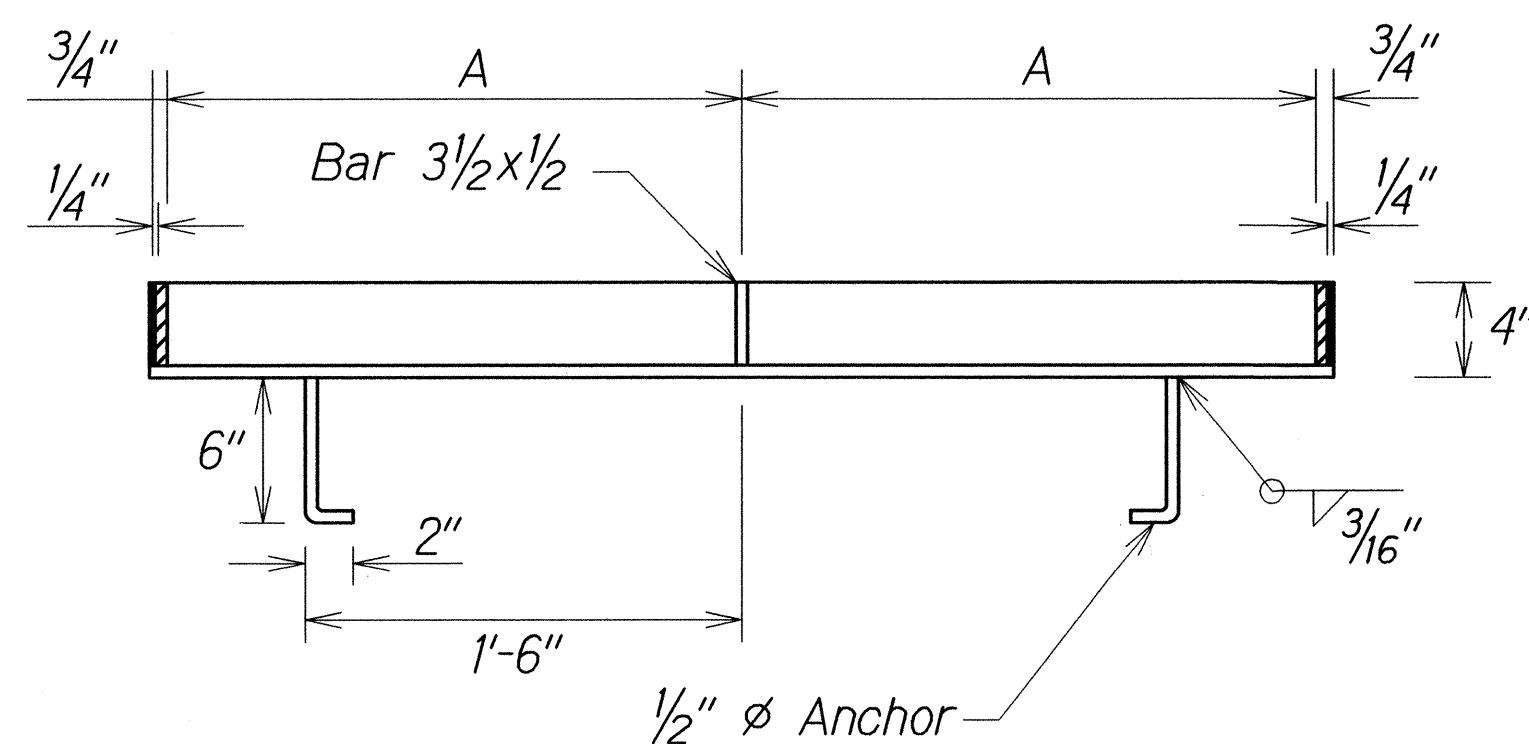
STEEL GRATE DETAIL
Not to Scale



SECTION
Not to Scale
(Thru Frame & Grates)

GENERAL NOTES

1. All welds 3/8" unless otherwise noted.
2. Frames and grates shall be zinc coated after fabrication.
3. Areas that are field welded shall be field galvanized in accordance with standard specs.
4. See Std. Plan B-01 for additional notes.
5. Contractor shall verify dimensions prior to ordering material.
6. Steel frame shall match elevation of new A.C. Pavement.
7. Contractor has the option of using cast malleable iron, cast steel or welded grate.



SECTION
Not to Scale

STEEL FRAME DETAIL

DIMENSIONS					
TYPE	NO. of GRATE	NO. of BARS	A	B	C
31114B	2	12	2'-0"	1'-11 1/2"	1 1/4"
2-31114B	4	12	2'-0"	1'-11 1/2"	1 1/4"
A-61614B	2	12	2'-0"	1'-11 1/2"	1 1/4"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAIL

KUHIO HIGHWAY
Intersection Improvements at Kapaka Street
Project No. 56D-01-13

Not to Scale
Date: January 2013