

PROJECT NO. P410070010

BRIDGE NO. HAM-50-3.76

DATE 10/7/08

SHEET

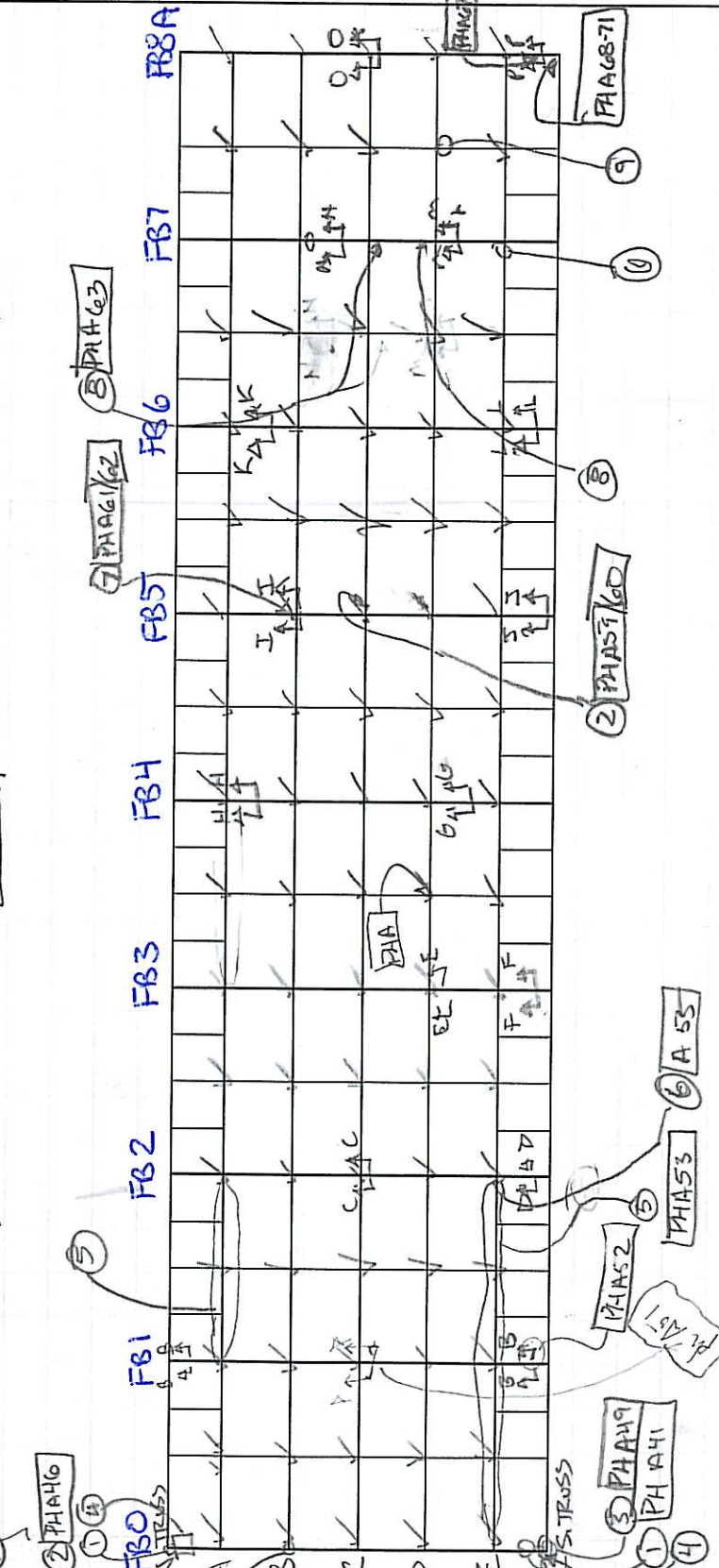
CREW RKC, PES

Calculations for 1/4 US Grid

TYPICAL STR/FBφ DETAILS PHA42-44
 UNDER-SIDE OF DECK EWH1113
 TYP. THAP CRACKING PHA456
 TYP. STR X-FRAME CON PHA57
 E.S. BRAN SPAN 1-2 GOOD COND
 PHA66

PHASO

1. φ THREAD CONT BRG (INSIDE FACE, + OUTSIDE FACE), WELDED ANCHOR TABS PHASO
2. P.C. AT STR/FB WELD (TYP)
3. 2" TACK WELDS @ CUS R
4. 1/16" PRIMING TOP BOT AT FB (1' ADJACENT TRUSS)
5. SPALLS ALONG THROUGH CRACKS TO STR A-B-E
6. ERECTION SEAT REM. STR/FB
7. ABRASION DUST @ TRUSS WELDS
8. THREADS BROD THROUGH WEB w/OUT (NEARLY ONLY ON W.F.)
9. IMPACT DAMAGE TO X-FRAME w/CR IN UELD - "PHAS1165"
10. SIGNS OF PIN NOT ROTATION, BRG SLIGHTLY COMPACTED GSE PHA68-70 - PLANTY THREAD EKK SIDE (W/IN INT SUBST)



REVISION 1	DATE	CREW	REVISION 2	DATE	CREW
REVISION 3	DATE	CREW	REVISION 4	DATE	CREW

Framing - Span 1

W. ELEV PIER PHAS8
 ELEV. W. ABUTMENT PHAS1

PROJECT NO P410 07 0010

BRIDGE NO HAM SD 3.76

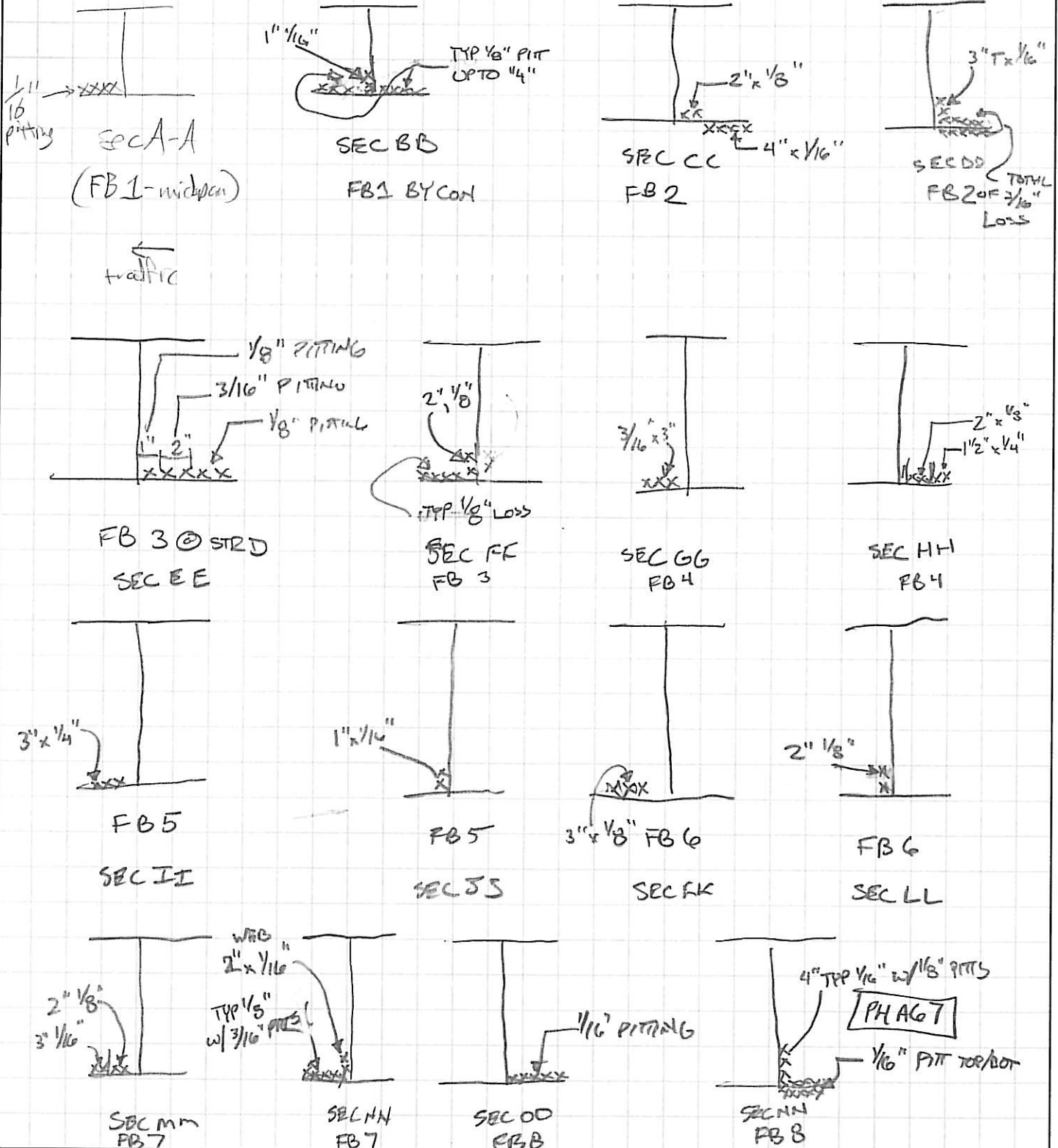
DATE 10/7/08

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CREW BEC PEJ

W. ABUTMENT - ABUTMENT SEAT BTW STR 1E - STR B 1' T x 1' W CORNER DELTA PHASE

SPAN 1



Calculations for 1/4 US Grid

REVISION <u>1</u>	DATE	CREW	REVISION <u>2</u>	DATE	CREW
REVISION <u>3</u>	DATE	CREW	REVISION <u>4</u>	DATE	CREW

PROJECT NO. 410 07 0010

BRIDGE NO. HAM SD 0576

DATE 10/7/03

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CREW REC PED

SPAN 2



FBO

REVISION <u>1</u>	DATE	CREW	REVISION <u>2</u>	DATE	CREW
REVISION <u>3</u>	DATE	CREW	REVISION <u>4</u>	DATE	CREW

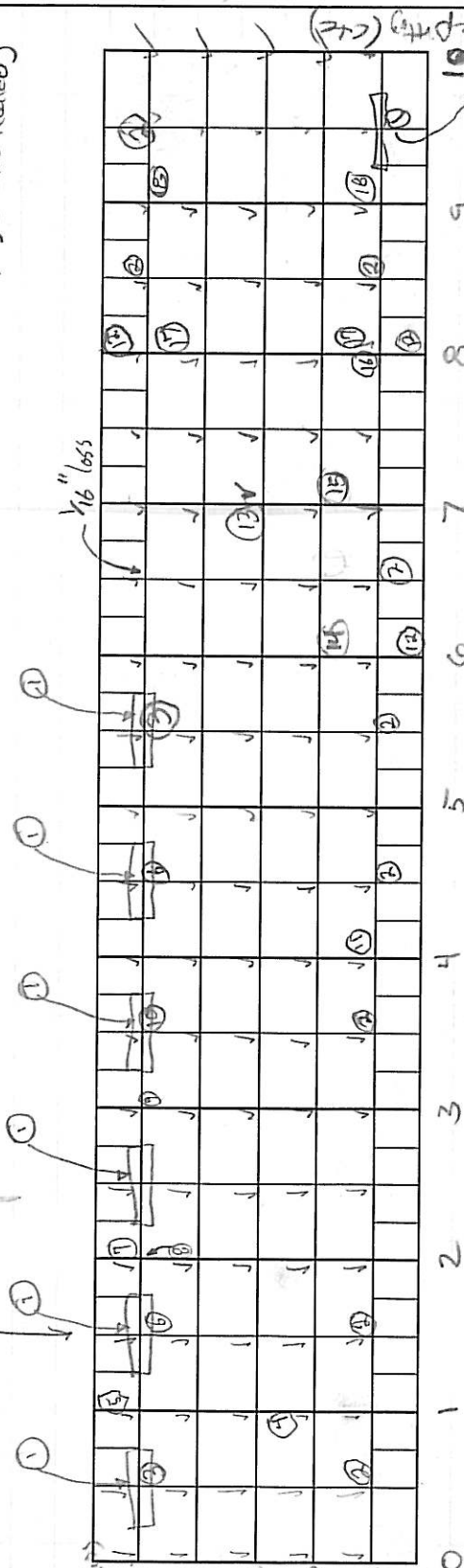
PROJECT NO P410070010
DATE 10/9/08
CREW KML - PEF

BRIDGE NO HAM-50-3.76
SHEET

Summary 700

- random map cracking in deck
- flange cover plate to FB web welds typically exhibit cracking of the paint, however no rust can be seen
- FB flanges (bottoms @ ends) have (typical) loss of section $\frac{1}{8}$ to $\frac{1}{4}$ " thick (typical)
- wall @ inside of haunch on fascia stringers (A+E) (typical along span)
- stringers exhibit typically at least $\frac{1}{8}$ " pitting at scuppers (mid-span) (cleaned treated)

- ① DETECT C.P. ON STRINGER
- ② pitting on non-revtoft stringer $\frac{1}{4}$ " deep x exposed exterior length (cleaned treated)
- ③ pitting " revtoft stringer $\frac{1}{8}$ " deep x exposed ext. length (cleaned treated)
- ④ pitting on FB1 $\frac{1}{4}$ " x $2\frac{3}{4}$ " long (edge of flange) between str C+D (C+E)
- ⑤ pitting/loss of web $\frac{1}{8}$ " x 4 " tall from flange (top surface of bottom flange) (C+E)
- ⑥ pitting on revtoft str $3\frac{1}{16}$ " x exp exterior length (C+E)
- ⑦ pitting/loss of web $\frac{1}{8}$ " x 4 " each side of web FB2 (C+E)
- ⑧ pack rust and broken weld at erection angle
- ⑨ missing erection angle
- ⑩ pitting/loss $\frac{1}{4}$ " @ reaction beam



- FB 4 tack welds on bottom of erection angles @ stringer
- ⑪ loss of section @ FB4 connect (bottom of) slight rust, rivet head loss $\approx 75\%$ tack welds from connection to web, web loss $\frac{1}{8}$ " x 4 " [ph A-91]
- FB 5-loss of web section $\frac{1}{8}$ " x 7 " high each end
- ⑫ $\frac{1}{8}$ " x 9 " loss @ FB6 connection, FB8 similar, FB6- $\frac{1}{4}$ " deep pitting between A+B and D+E (less than note ④)
- ⑬ $\frac{3}{16}$ " x 2 " loss on web + $\frac{1}{8}$ " x width of $\frac{1}{2}$ flange
- ⑭ $\frac{3}{16}$ " pitting on flange
- ⑮ erection angles set against stringer ends no abrasion rust

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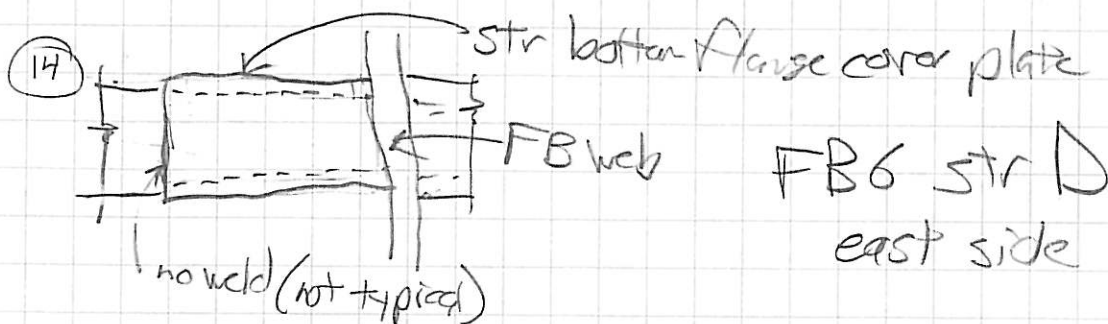
Framing - Span 3

- ⑯ erection angle weld broken, web $\frac{1}{8}$ " loss under rivet (C+E) pitting, abrasion

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REVISION 3	DATE	CREW	REVISION 4	DATE	CREW

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 CREW PEJ - KMW

BRIDGE NO HAM-50-376
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span 3

REVISION <u>1</u>	DATE	CREW	REVISION <u>2</u>	DATE	CREW
REVISION <u>3</u>	DATE	CREW	REVISION <u>4</u>	DATE	CREW

PROJECT NO P410070010

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DATE 6/8/08.

SHEET

CREW Bkr

Calculations for 1/4 US Grid

VPIN PL' EXHIBIT PAGING 1/11 CLOS'D PTD

1) PIN NUT SHOWS SIGNS OF ROTATION, PIN EXHIBITS PT FAIL / MOD RUST PHBAT
AT 100°F BRG 3° EXPR. KEY CENTRE REED, & THREAD NE ANCHOR BOLT ELEY PHBSC

② SLIGHT IND. OF PIN NOT ROTATION, LEVEL - 0° @ 60° F AGAINST KEY PHB83

⑤ BROKEN WELD SEAT ~~X~~ FBWES NO PROP. HIGGS I.R. STON BTH O.S.L./#B

A) STANDING WATER ON W/F OF BOAT (F.B.)
 5'0" 1" / BOOKEN WELD 1 1/2" NE, TE, D, DECAT, & PHRGG
 1.7 07 N E21.20 / X 1 1/4"

⑥ GRIVEN WELD NW CORNER SEAT 4 / FB WEB MAR 59

1) SEAT & FELL OFF DURING INSPECTION

QMC 2" LONG THICK WELD FB WEB
(9E 2" - (3")

RETROFIT #145
 (10) P.E. STAIN FB WEB / SEAT & WELDS NO SIGNS OF DISINTEGRATION

$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
 $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$
 $\frac{1}{16} \times \frac{1}{16} = \frac{1}{256}$
 $\frac{1}{256} \times \frac{1}{256} = \frac{1}{65536}$
 $\frac{1}{65536} \times \frac{1}{65536} = \frac{1}{4294967296}$

$\frac{1}{2}$

$\frac{A}{A} = \frac{I}{I}$

1

$\frac{1}{2}$

99

A vertical strip of a document page, likely a ledger or notebook, showing a series of horizontal lines. A small circular mark is visible on the right side of the strip.

$\frac{1}{2}$

②

0 1 2 3 4 5

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① DRON WELD @ ELEC. 9 FULL LENGTH

Framing - Span 4

TPR. PT C.R.'S AT COMING OF AGE - 70'S [B93-44]

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⑪ BRKN WELD @ FLEC. & FULL LENGTH

Framing – Span 4

TRP, HAUNCH SPILLS ALONG STR A/E PHB100

TYPE. PT CAR'S AT CARPENTERS ST. S. B93/44

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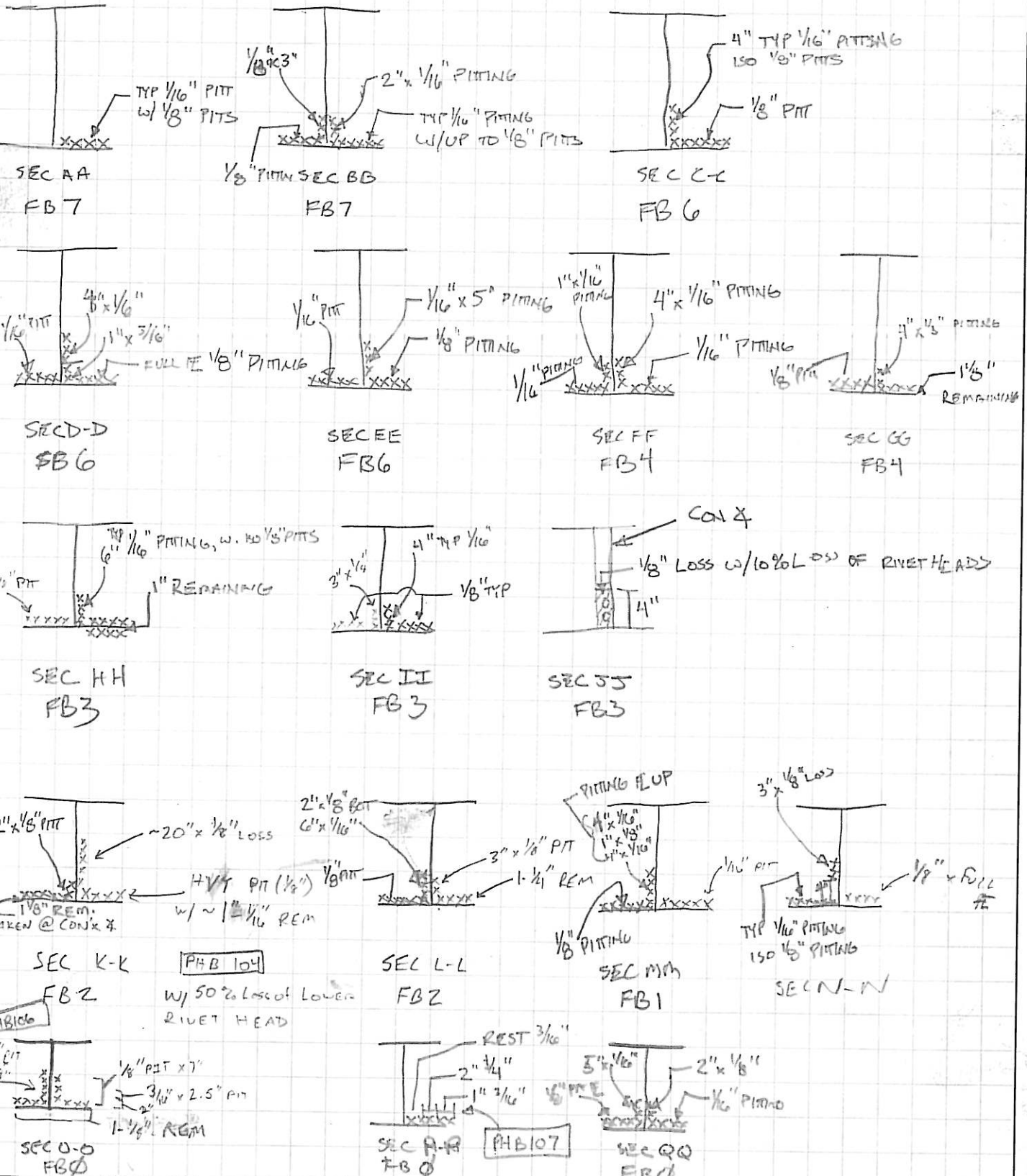
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CREW BRC / KMW

SPAN 4 - FRAMING



Calculations for 1/4 US Grid

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