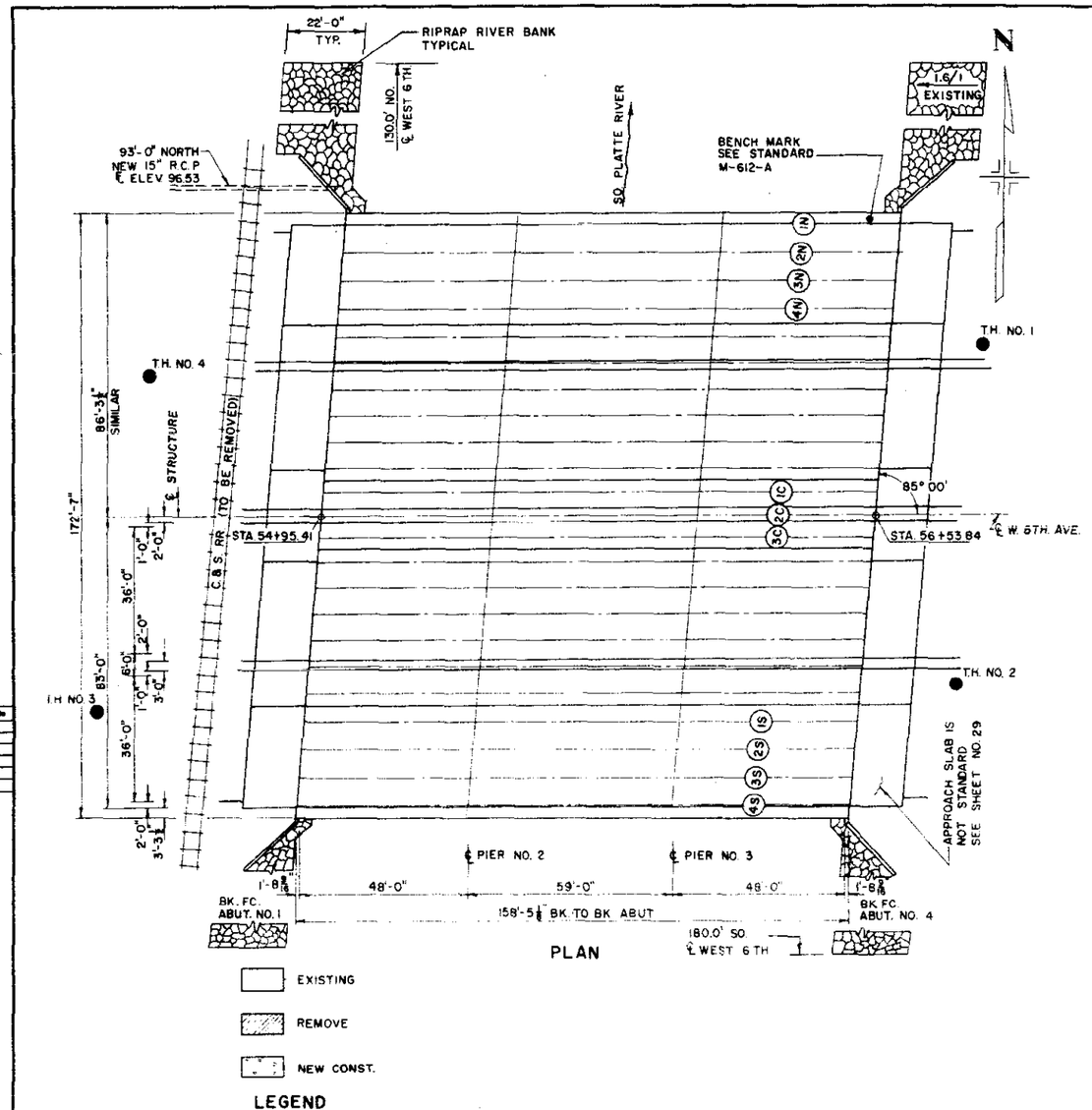
REVISIONS (R-1) 12-2-66 QUANTITY ITEM 501 G.D.C.
(R-2) 1-23-67 ELEVATION VIEW G.D.C.

AS CONSTRUCTED
REVISED DATE

FED. ROAD REG. NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	U 012-2 (13)	25	



Sheet Pile Cutoff	
Length	Location
292 ft	Abut 1 North
283 ft	Abut. 1 South
179 ft	Wing Abut 4 North
133 ft	Abut 4 North
105 ft	Abut 4 South
125	Abut 4 South

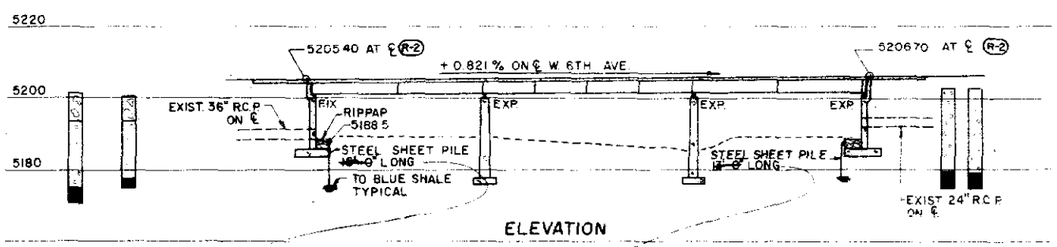
SUMMARY OF QUANTITIES

	ITEM	UNIT	DESCRIPTION	① ABUTS	PIERS	SUPER STR	TOTAL
	202	EA	REM PORT PRESENT STR				2
	206	CU YD	STR EXCAV	~~826~~ 937	630	1527	1456
	206	CU YD	STR BKFL (CL. 3)	~~754~~ 834	515	1339	1269
	403	TON	HBP (GR. E) (HAUL & ASPHALT)	~~27~~ 17		~~138~~ 88	~~165~~ 105
	411	GAL	LIQ ASPH MATL (RC-800)	~~33~~ 26		~~182~~ 148	~~215~~ 172
(R-1)	501	SQ FT	STEEL SHEET PILE (TY I)	~~2910~~ 2372		2372	~~2910~~
	506	CU YD	RIPRAP	~~560~~ 631			~~550~~ 631
③	509	L.S.	STR STEEL				L.S.
④	509	L.S.	STR STEEL (GALV)				L.S.
	210	LIN FT	RES RAILING	61		375	436
	513	EA	DRAIN PIPE 4IN (-4 FT)			~~28~~ 36	~~26~~ 36
	601	CU YD	CONCRETE CL A	~~505~~ 515	204	~~434~~ 414*	~~1153~~ 1123
	602	LB	REINF STEEL *	~~42,050~~	~~29,100~~	~~81,600~~	~~152,750~~
	606	LIN FT	GD RAIL TY 3A (DOUBLE)	50		150	200
	613	LIN FT	½ IN ELEC COND			~~401~~ 386	~~401~~ 386
②	—	SQ FT	¼ IN EXP JT MATL	~~567~~ 512			~~567~~ 512
②	—	SQ FT	16 GA GALV SHT STEEL	166			166
	607	LIN FT	FENCE CHAIN LINK (36 INCH)	50		150	200

① INCLUDES QUANTITIES FOR 2 APPROACH SLABS.
THERE SHALL BE NO SEPARATE PAYMENT FOR ITEMS MARKED THUS (2). PAYMENT THEREFORE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 601, CONCRETE CL A.
③ DESIGN WEIGHT = 256,780 LB. * Paid as Per Suppliers Invoices 157309 lbs
④ DESIGN WEIGHT = 3,625 LB.

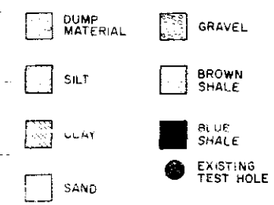
INDEX

SHEET NO.	TITLE
25	GENERAL PLAN & ELEVATION
26	DETAILS ABUTMENT NO. 1 SOUTH SIDE
27	DETAILS ABUTMENT NO. 1 NORTH SIDE
28	PIER DETAILS
29	APPROACH SLAB DETAILS PIER BAR LIST & QUANTITIES
30	DETAILS ABUTMENT NO. 4 NORTH SIDE
31	DETAILS ABUTMENT NO. 4 SOUTH SIDE
32	GIRDER & STRUCTURAL STEEL DETAILS
33	SUPERSTRUCTURE DETAILS
34	DECK PLAN NORTH BRIDGE
35	DECK PLAN SOUTH BRIDGE



Average Length Abut No. 1
North 9.6'
Center 15.0'
South 10.2'

Average Length Abut No. 4
North 8.0'
South 8.8'



TEST HOLE LEGEND

STRUCTURE NO. NORTH F-16-EE / SOUTH F-16-EF

JEFFERSON ASSOCIATES
CIVIL ENGINEERS

DEPARTMENT OF HIGHWAYS
STATE OF COLORADO

GENERAL PLAN AND ELEVATION

Across SOUTH PLATTE RIVER ON 6th AVE
Sta. 54+95.41 TO 56+53.84
Near DENVER Sec. 5 T. 4 S. R. 68 W.

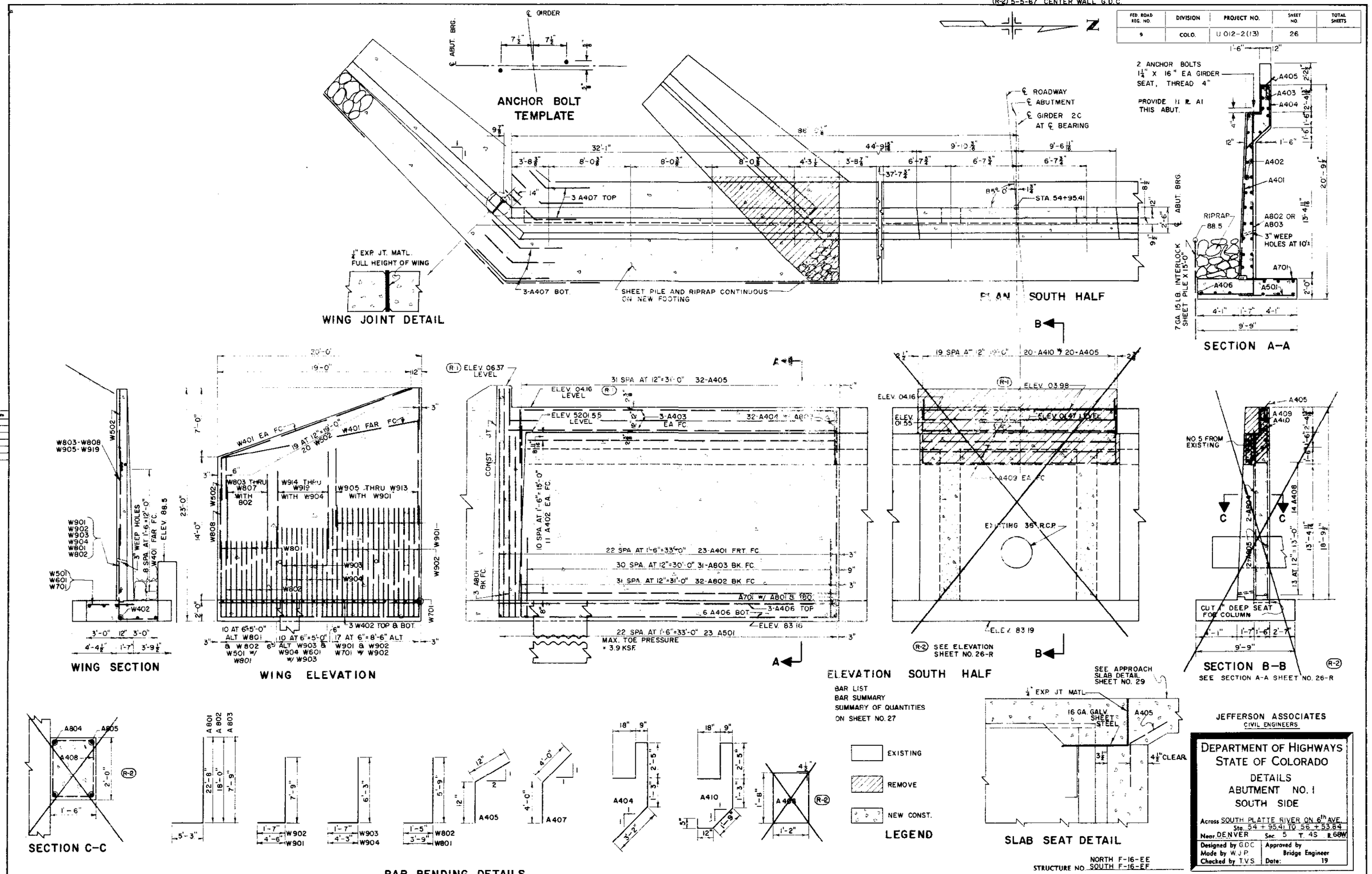
Designed by M.L.K.
Made by G.A.M.
Checked by T.V.S.

Approved by
Bridge Engineer
Date: 19

REVISIONS

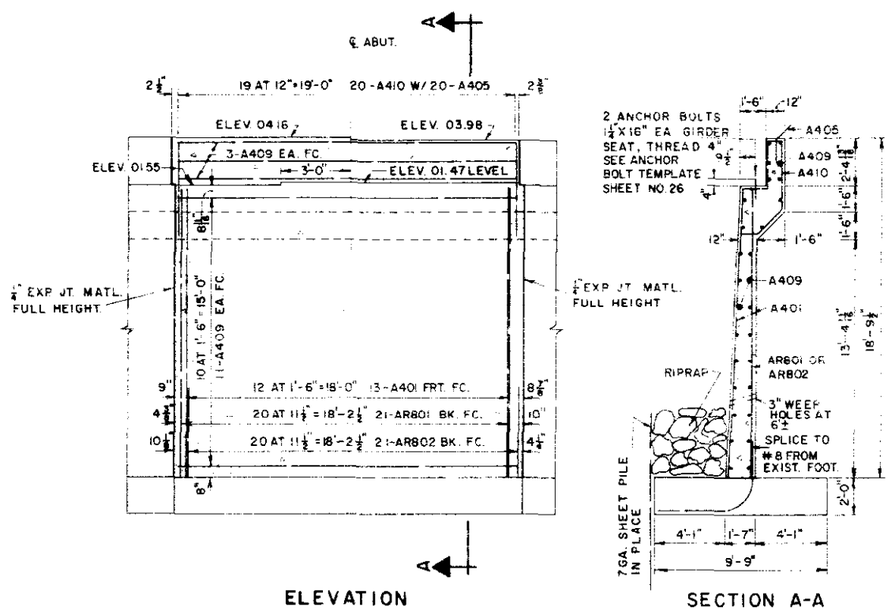
REVISIONS (R-1) 1-23-67 SEAT ELEVATIONS G.D.C.
(R-2) 5-5-67 CENTER WALL G.D.C.

FED. ROAD REG. NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	U 012-2(13)	26	



REVISIONS ISSUE SHEET 26-R WITH REVISED SHEET 26 AFTER 5-5-67

FED. ROAD REG. NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	U 012-2(13)	26-R	



ELEVATION

SECTION A-A

*BAR LIST

MARK	SIZE	SHAPE	NO. REQD.	LENGTH
A401	4	—	13	16'-3
A409			16	19'-2"
AR801	8	—	21	16'-3"
AR802			21	5'-0"

*BAR SUMMARY

520	L.F. #4 AT 0.668 #/FT. =	350
445	L.F. #8 AT 2.670 #/FT. =	1,190
	TOTAL =	1,540

*SUMMARY OF QUANTITIES

ITEM	UNIT	DESCRIPTION	AMOUNT
206	CU. YD.	STR. EXCAV.	111
206	CU. YD.	STR. BKFL. (CL. 3)	70
501	SQ. FT.	STEEL SHT. PILE (TY. I) 799 → ~~3,000~~	
506	CU. YD.	RIPRAP	11
601	CU. YD.	CONCRETE CL. A	10
602	LB.	REINF. STEEL 1537 → ~~1,540~~	
①—	SQ. FT.	¼ IN. EXP. JT. MATL	55

* ADDITIONAL QUANTITIES REQUIRED TO CONSTRUCT ABUT. WALL.

① THERE SHALL BE NO SEPARATE PAYMENT FOR ITEMS MARKED THUS (①). PAYMENT THEREFORE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 601, CONCRETE CL. A.

STRUCTURE NO. NORTH F-16-EE SOUTH F-16-EF

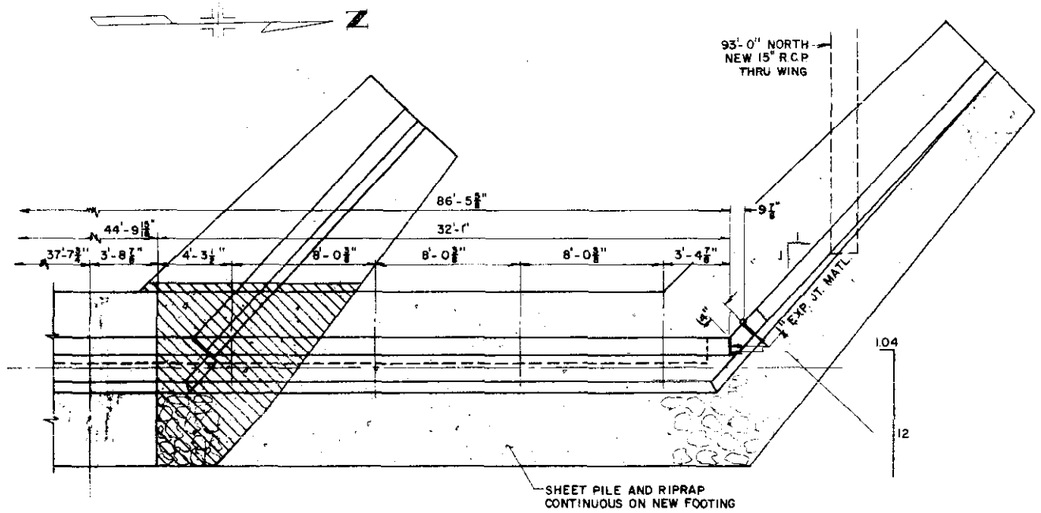
DEPARTMENT OF HIGHWAYS
STATE OF COLORADO
REVISED
DETAILS
ABUT. NO. 1

Across SOUTH PLATTE RIVER ON 6TH AVE.
Sta. 54+95.41 TO 56+53.84
Near DENVER Sec. 5 T. 4S R. 68W

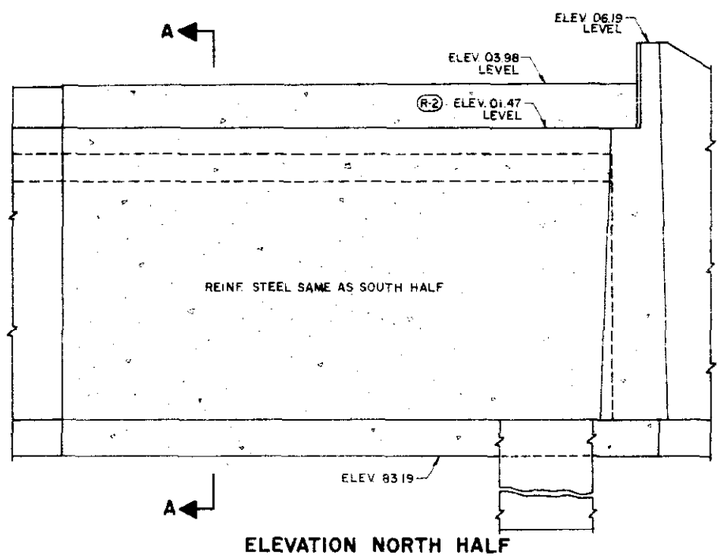
Designed by T.V.S. Made by G.D.C. Checked by G.D.C.
Approved by Bridge Engineer
Date: 19

REVISIONS (R-1) 12-2-66 QUANTITY ITEM 501 G.D.C.
(R-2) 1-23-67 SEAT ELEVATION G.D.C.

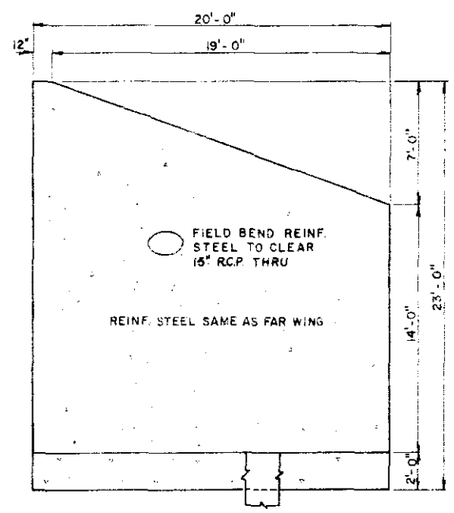
FED. ROAD REG. NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	U012-2 (13)	27	



PLAN NORTH HALF



ELEVATION NORTH HALF



WING ELEVATION

BAR SUMMARY

5460	L.F.	#4	AT	0.668 #/FT.	=	3660
655	L.F.	#5	AT	1.043 #/FT.	=	685
45	L.F.	#6	AT	1.502 #/FT.	=	65
475	L.F.	#7	AT	2.044 #/FT.	=	970
2840	L.F.	#8	AT	2.670 #/FT.	=	7585
780	L.F.	#9	AT	3.400 #/FT.	=	2650
				TOTAL	=	15,615 LB.

SUMMARY OF QUANTITIES

SECTION	UNIT	ITEM	AMOUNT
206	CU. YD.	STR. EXCAV.	392
206	CU. YD.	STR. BKFL. (CL. 3)	386
(R-1) 501	SQ. FT.	STEEL SHT. PILE (TY. I) 602 ← ~~560~~	
506	CU. YD.	RIPRAP 312 ←	274
(2) 509	L.S.	STR. STEEL	L.S.
601	CU. YD.	CONCRETE CL. A	201
602	LB.	REINF. STEEL 15,596 ← ~~15,615~~	
(1) —	SQ. FT.	1/4" EXP. JT. MATL.	256
(1) —	SQ. FT.	16 GA. GALV. SHT. STEEL	166

THERE SHALL BE NO SEPARATE PAYMENT FOR ITEMS MARKED THUS (1). PAYMENT THEREFORE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 601, CONCRETE CL. A.

(2) DESIGN WEIGHT = 145 LB.

BAR LIST

MARK	SIZE	SHAPE	REQD	LENGTH
W401	4		24	19'-9"
W402	4		12	24'-0"
A401	4		46	16'-3"
A402	4		44	30'-9"
A403	4		12	31'-9"
A404	4		64	11'-6"
A405	4		84	2'-0"
A406	4		18	32'-0"
A407	4		12	8'-0"
A408	4		28	6'-5"
A409	4		12	19'-2"
A410	4		20	11'-6"
W501	5		12	3'-9"
W502	5		40	9'-0"
A501	5		46	5'-5"
W601	6		10	4'-3"
W701	7		20	4'-9"
A701	7		70	5'-5"
W801	8		12	9'-6"
W802	8		10	7'-2"
W803	8		2	4'-1"
W804	8		2	4'-5"
W805	8		2	4'-9"
W806	8		2	5'-1"
W807	8		2	5'-5"
W808	8		2	3'-9"
A801	8		6	27'-11"
A802	8		64	23'-3"
A803	8		62	13'-0"
A804	8		4	16'-3"
A805	8		4	18'-8"
W901	9		18	12'-3"
W902	9		18	9'-4"
W903	9		10	7'-10"
W904	9		10	10'-6"
W905	9		2	8'-10"
W906	9		2	8'-6"
W907	9		2	8'-1"
W908	9		2	7'-9"
W909	9		2	7'-4"
W910	9		2	7'-0"
W911	9		2	6'-7"
W912	9		2	6'-3"
W913	9		2	5'-10"
W914	9		2	7'-0"
W915	9		2	6'-8"
W916	9		2	6'-4"
W917	9		2	6'-0"
W918	9		2	5'-8"
W919	9		2	5'-4"

JEFFERSON ASSOCIATES
CIVIL ENGINEERS

DEPARTMENT OF HIGHWAYS
STATE OF COLORADO

DETAILS
ABUTMENT NO. 1
NORTH SIDE

Across SO. PLATTE RIVER ON 6th AVE
Sta. 54+95.41 TO 56+53.84
Near DENVER Sec. 5 T. 4S. R.68W

Designed by G.D.C. | Approved by
Made by J. MC. | Bridge Engineer
Checked by T.V.S. | Date: 19

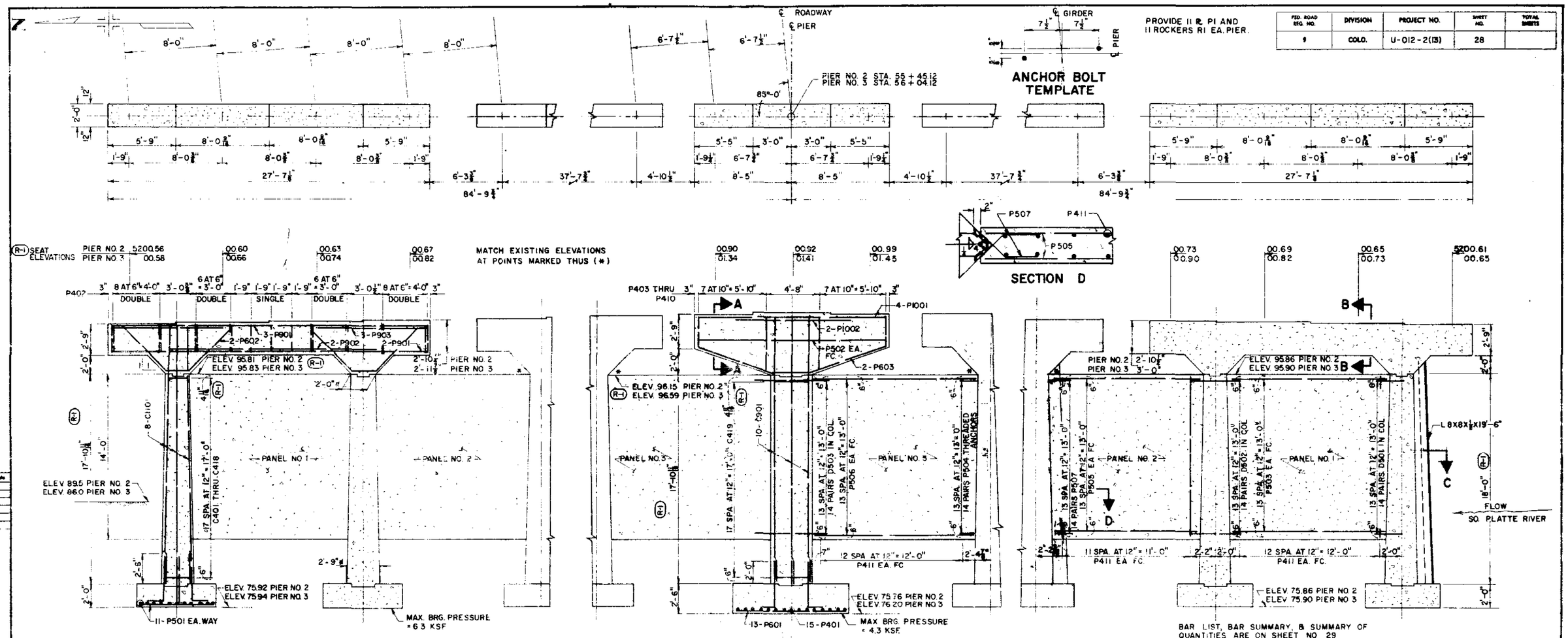
STRUCTURE NO. NORTH F-16-EE
SOUTH F-16-EF

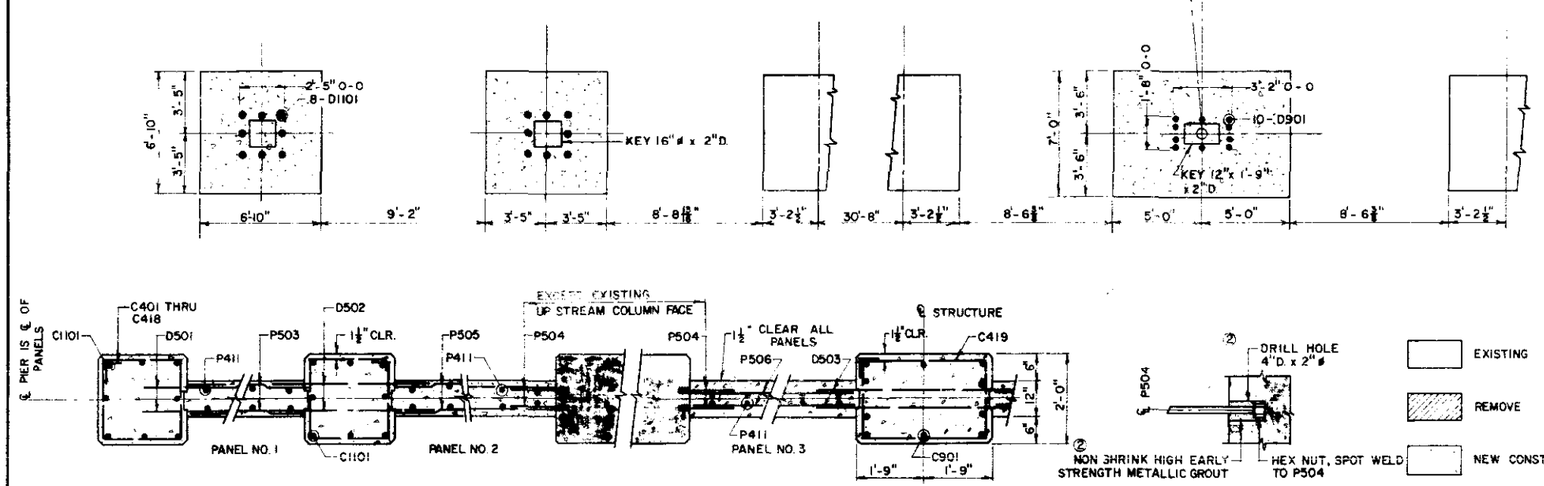
REVISIONS

REVISIONS (R-1) 1-23-67 SEAT ELEVATIONS G.D.C.
COLUMN LENGTHS G.D.C.

FED. ROAD REG. NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	U-012-2(13)	28	

PROVIDE 11 R. PI AND 11 ROCKERS R1 EA. PIER.

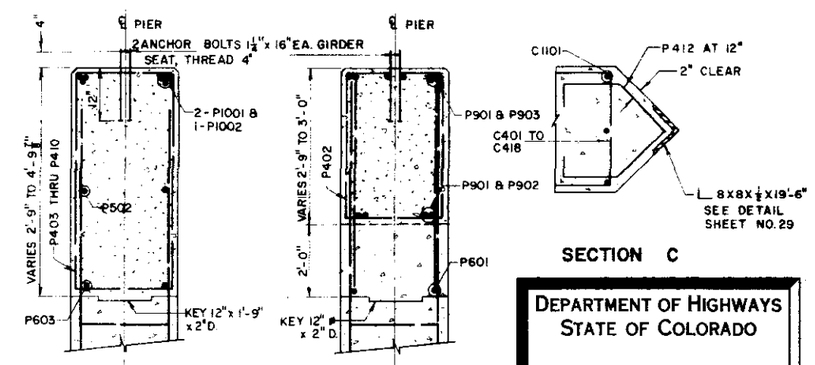




WALL & COLUMN SECTIONS

ANCHOR INSTALLATION

LEGEND



SECTION A-A

SECTION B-B

SECTION C

JEFFERSON ASSOCIATES
CIVIL ENGINEERS

STRUCTURE NO. NORTH F-16-EE
SOUTH F-16-EF

DEPARTMENT OF HIGHWAYS
STATE OF COLORADO

PIER DETAILS

Across SO. PLATTE RIVER ON 6th AVE.
Sta. 54 + 95.41 TO 56 + 53.84
Near DENVER Sec. 5 T. 4 S. R. 68 W

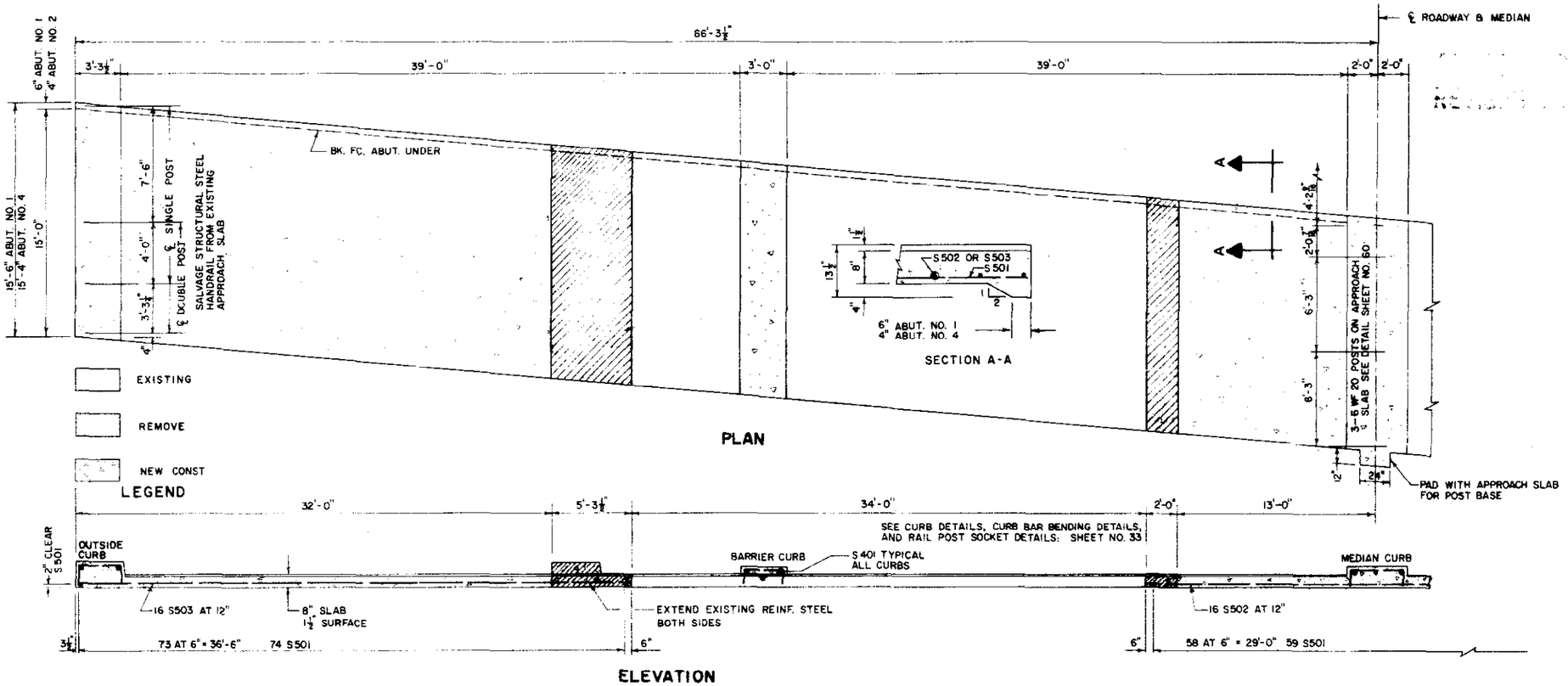
Designed by L.H.C.
Made by L.E.S.
Checked by T.V.S.

Approved by
Bridge Engineer
Date: 19

HIGHWAYS
COLORADO
L.R. 137

REVISIONS

FED. ROAD REG. NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	U 012-2 (13)	29	



APPROACH SLAB DETAILS

① BAR LIST

MARK	SIZE	SHAPE	REQD.	LENGTH
C 404	4		32	6'-8½"
C 501	5		64	1'-4"
C 403	4		32	2'-9"
C 405	4		16	6'-5"
S 401	4		26	15'-3"
S 501	5		414	15'-3"
S 502	5		32	29'-9"
S 503	5		64	37'-0"

SEE SH. NO. 33

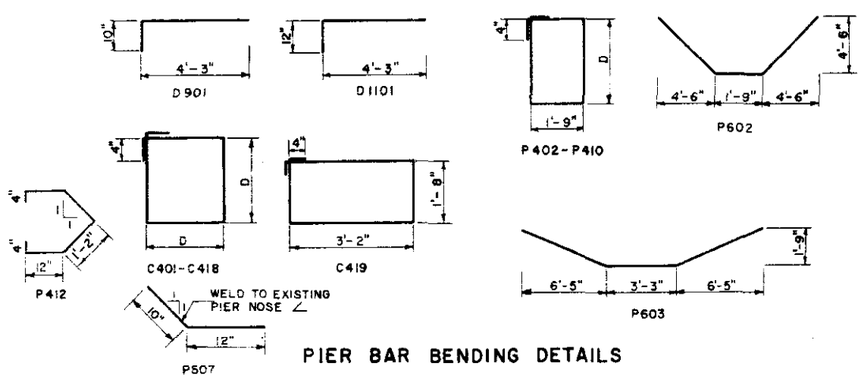
① BAR SUMMARY

800	L.F.	# 4 AT 0.668 #/FT. =	535
9720	L.F.	# 5 AT 1.043 #/FT. =	10,140
		TOTAL =	10,675

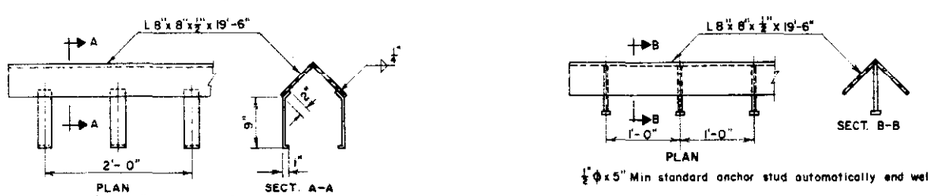
① SUMMARY OF QUANTITIES

SECTION	UNIT	ITEM	AMOUNT
~~206~~	~~CU. YD~~	~~STR. EXCAVATION~~	~~61~~
403	TON	HBP (GR E)	17 ~~27~~
411	GAL	LIQ ASPH MAT'L(RC-800)	26 ~~33~~
②509	L.S.	STR. STEEL	L.S.
③509	L.S.	STR STEEL (GALV)	L.S.
210	LIN FT	RES RAILING	61
601	CU YD	CONCRETE CL. A.	92
602	LB	REINF. STEEL 10,785	~~10,675~~
606	LIN. FT.	GD. RAIL TY. 3A DBL	50

① TWO APPROACH SLABS
② DESIGN WEIGHT = 150 LB.
③ DESIGN WEIGHT = 760 LB.



PIER BAR BENDING DETAILS



Anchors 2½ x ⅝ x 1'-0" welded a 12" ctrs. to alternate legs.

REGULAR NOSE ANGLE

¼"Φ x 5" Min standard anchor stud automatically end welded to angle

ALTERNATE NOSE ANGLE

PIER NOSE ANGLE DETAILS

① BAR SUMMARY

8455	L.F.	# 4	AT	0.668 #/FT. =	5,650
7125	L.F.	# 5	AT	1.043 #/FT. =	7,430
545	L.F.	# 6	AT	1.502 #/FT. =	820
1475	L.F.	# 9	AT	3.400 #/FT. =	5,015
175	L.F.	# 10	AT	4.303 #/FT. =	755
1775	L.F.	# 11	AT	5.313 #/FT. =	9,430
				TOTAL =	29,100

① SUMMARY OF QUANTITIES

SECTION	UNIT	ITEM	AMOUNT
206	CU. YD.	STR. EXCAV.	630
206	CU. YD.	STR. BKFL. (CL. 3)	515
③509	L.S.	STR. STEEL	L.S.
601	CU. YD.	CONCRETE CL. A	204
602	LB.	REINF. STEEL	29,100

THERE SHALL BE NO SEPARATE PAYMENT FOR ITEMS MARKED THUS(②) PAYMENT THEREFORE SHALL BE INCLUDED IN CONTRACT UNIT PRICE FOR ITEM 601, CONCRETE CL. A.

① TWO PIERS
③ DESIGN WEIGHT = 1485 LB.

D501	5			112	2'-6"
D502				112	5'-0"
D503				56	6'-0"
P501				176	6'-4"
P502				4	16'-7"
P503				112	13'-0"
P504				188	2'-0"
P505				112	12'-4"
P506				112	13'-4"
P507				56	1'-10"
P601	6			26	9'-6"
P602				16	14'-6"
P603				4	16'-7"
C901	9			20	22'-6"
D901				20	5'-1"
P901				20	27'-4"
P902				8	18'-0"
P903				24	9'-8"
P1001	10			8	16'-7"
P1002				4	10'-0"
C1101	11			64	22'-6"
D1101				64	5'-3"

BAR LIST

MARK	SIZE	D	SHAPE	NO REQD	LENGTH
C401	4	2'-5"		8	10'-4"
C402		2'-4½"		8	10'-2"
C403		2'-4"		8	10'-0"
C404		2'-3½"		8	9'-10"
C405		2'-3"		8	9'-8"
C406		2'-2½"		8	9'-6"
C407		2'-2"		8	9'-4"
C408		2'-1½"		8	9'-2"
C409		2'-1"		8	9'-0"
C410		2'-0½"		8	8'-10"
C411		2'-0"		8	8'-8"
C412		1'-11½"		8	8'-6"
C413		1'-11"		8	8'-4"
C414		1'-10½"		8	8'-2"
C415		1'-10"		8	8'-0"
C416		1'-9½"		8	7'-10"
C417		1'-9"		8	7'-8"
C418		1'-8½"		8	7'-6"
C419				38	10'-4"
P401				30	6'-6"
P402		2'-6"		268	7'-5"
P403		2'-7"		4	7'-7"
P404		2'-10"		4	8'-1"
P405		3'-1"		4	8'-7"
P406		3'-4"		4	9'-1"
P407		3'-7"		4	9'-7"
P408		3'-10"		4	10'-1"
P409		4'-1"		4	10'-7"
P410		4'-4"		4	11'-1"
P411				304	13'-6"
P412				36	5'-0"

STRUCTURE NO. NORTH F-16-EE
SOUTH F-16-EF

PIER BAR LIST & QUANTITIES

JEFFERSON ASSOCIATES
CIVIL ENGINEERS

DEPARTMENT OF HIGHWAYS
STATE OF COLORADO

APPROACH SLAB DETAILS
PIER BAR LIST
& QUANTITIES

Across SOUTH PLATTE RIVER ON 6TH AVE.
Sta. 54+95.41 TO 56+53.84
Near DENVER Sec. 5 T. 4 S. R. 68 W

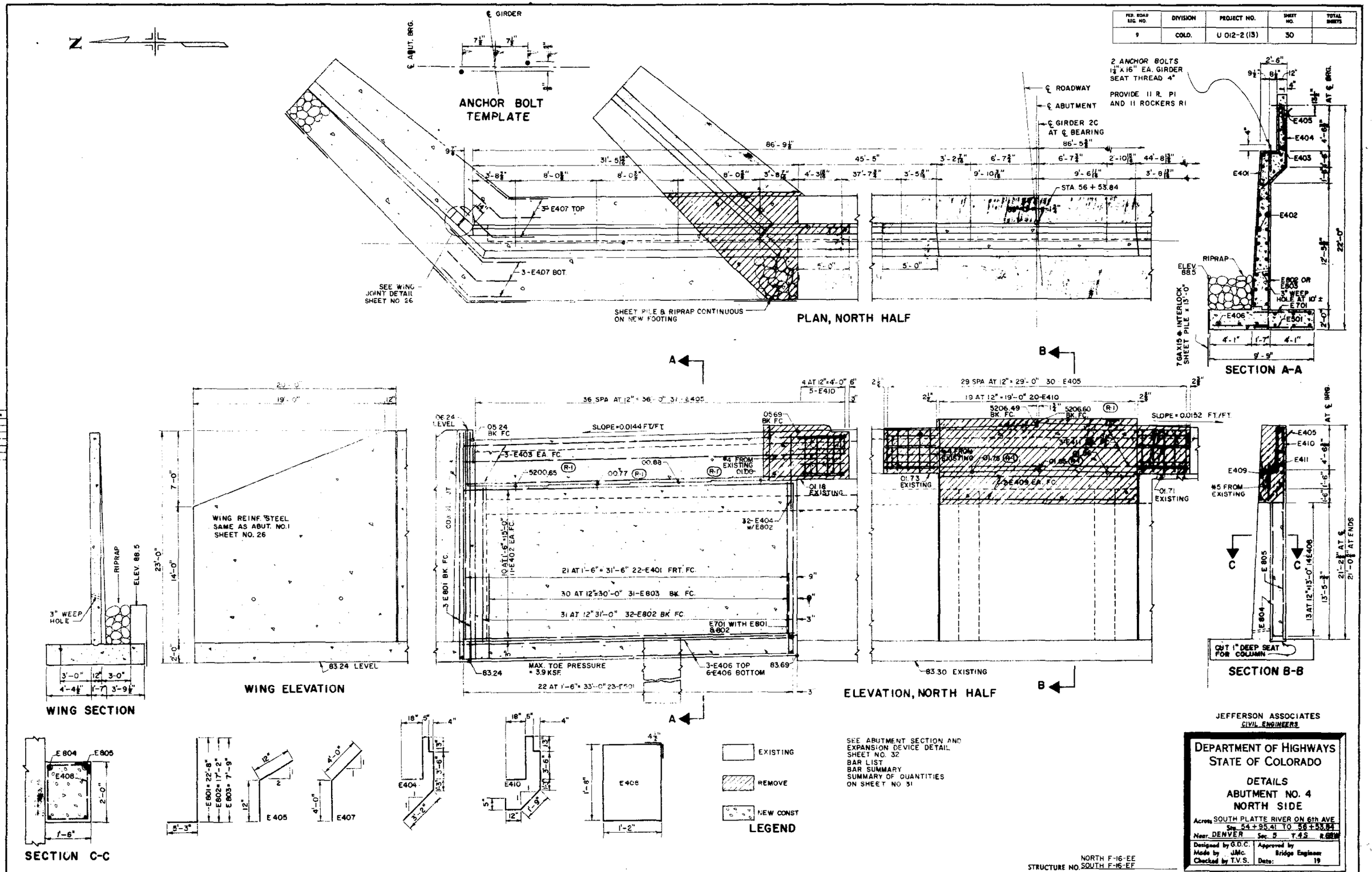
Designed by GDC
Made by WJP
Checked by TVS

Approved by
Bridge Engineer
Date: 19

REVISIONS

REVISIONS (R-1) 1-23-67 SEAT ELEVATIONS G.D.C.

FED. ROAD REG. NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	U 012-2 (13)	30	

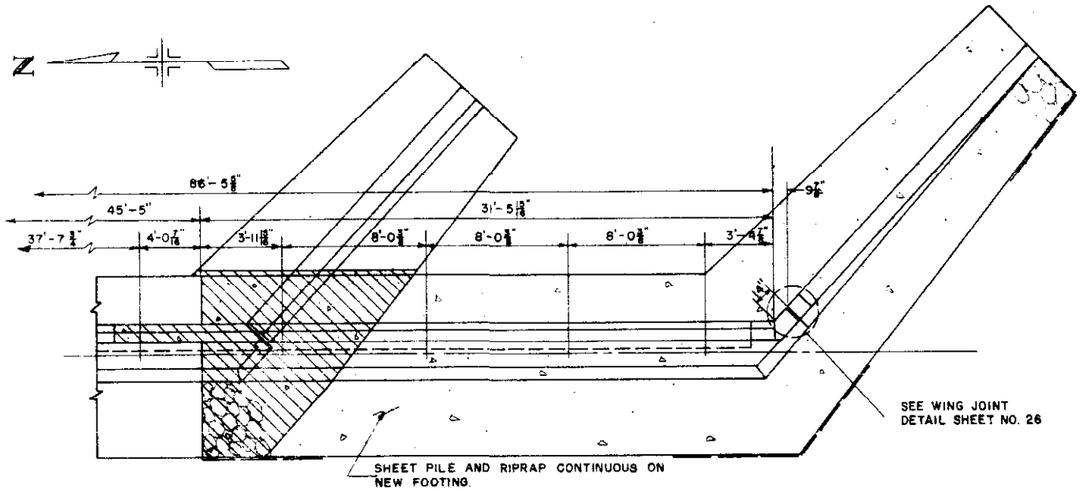


REVISIONS (R-1) 12-2-66 QUANTITY ITEM 601 G.D.C.

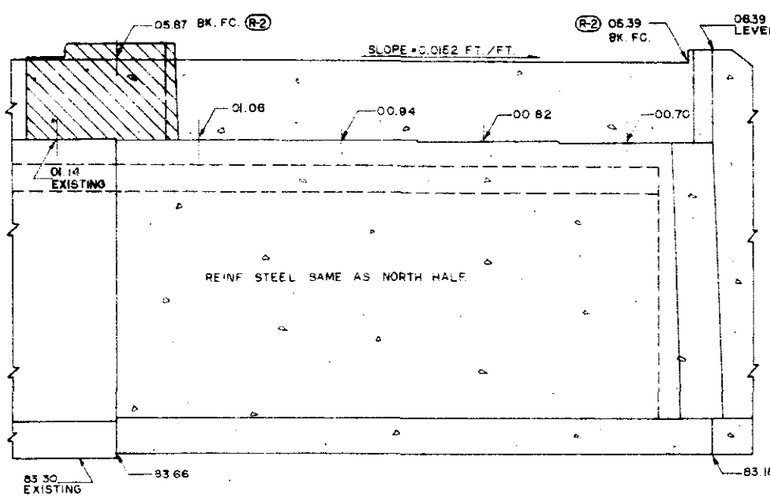
(R-2) 1-23-67 SEAT ELEVATIONS G.D.C.

AS CONSTRUCTED REVISIONS

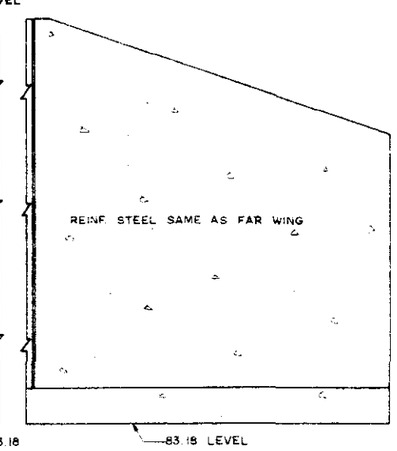
FED. ROAD REG. NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	U 012-2(13)	31	



PLAN SOUTH HALF



ELEVATION SOUTH HALF



WING ELEVATION

BAR SUMMARY

5875	L.F.	#4	AT	0.668	#/FT.	= 3925
655	L.F.	#5	AT	1.043	#/FT.	= 685
45	L.F.	#6	AT	1.502	#/FT.	= 65
475	L.F.	#7	AT	2.044	#/FT.	= 970
2795	L.F.	#8	AT	2.670	#/FT.	= 7465
780	L.F.	#9	AT	3.400	#/FT.	= 2650
		TOTAL				15,760 LB.

SUMMARY OF QUANTITIES

	SECTION	UNIT	ITEM	AMOUNT
	206	CU. YD.	STR. EXCAVATION	434
	206	CU. YD.	STR. BACKFILL (CL. 3)	368
(R-1)	501	SQ. FT.	STEEL SHEET PILE (TY. I)	~~13,809~~ 9711
	506	CU. YD.	RIPRAP	306 ~~270~~
	(2) 509	L.S.	STR. STEEL	L.S.
	601	CU. YD.	CONCRETE CL. A	212
	602	LB.	REINF. STEEL 15,746	~~15,760~~
	(1) —	SQ. FT.	1/4" EXP. JT. MATL.	256

THERE SHALL BE NO SEPARATE PAYMENT FOR ITEMS MARKED THUS ((1)) PAYMENT THEREFORE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 601, CONCRETE CL. A.

(2) DESIGN WEIGHT = 145 LB.

BAR LIST

MARK	SIZE	SHAPE	REQD.	LENGTH
W401	4		24	19'-9"
W402			12	24'-0"
E401			44	15'-4"
E402			44	31'-2"
E403			12	36'-3"
E404			64	15'-10"
E405			104	2'-0"
E406			18	31'-6"
E407			12	8'-0"
E408			28	6'-5"
E409			4	19'-2"
E410			20	15'-10"
E411			6	29'-2"
W501	5		12	3'-9"
W502			40	9'-0"
E501			46	5'-5"
W601	6		10	4'-3"
W701	7		20	4'-9"
E701			70	5'-5"
W801	8		12	9'-6"
W802			10	7'-2"
W803			2	4'-1"
W804			2	4'-5"
W805			2	4'-9"
W806			2	5'-1"
W807			2	5'-5"
W808			2	3'-9"
E801			6	27'-11"
E802			64	22'-5"
E803			62	13'-0"
E804			4	16'-3"
E805			4	20'-0"
W901	9		18	12'-3"
W902			18	9'-4"
W903			10	7'-10"
W904			10	10'-6"
W905			2	8'-10"
W906			2	8'-6"
W907			2	8'-1"
W908			2	7'-9"
W909			2	7'-4"
W910			2	7'-0"
W911			2	6'-7"
W912			2	6'-3"
W913			2	5'-10"
W914			2	7'-0"
W915			2	6'-6"
W916			2	6'-4"
W917			2	5'-0"
W918			2	5'-8"
W919			2	5'-4"

JEFFERSON ASSOCIATES
CIVIL ENGINEERS

DEPARTMENT OF HIGHWAYS
STATE OF COLORADO

DETAILS
ABUTMENT NO. 4
SOUTH SIDE

Across SO. PLATTE RIVER ON 6th AVE.
Sta. 54+95.41 TO 56+53.84
Near DENVER Sec. 5 T. 4S R. 68W

Designed by GDC
Made by W.J.P.
Checked by T.V.S.

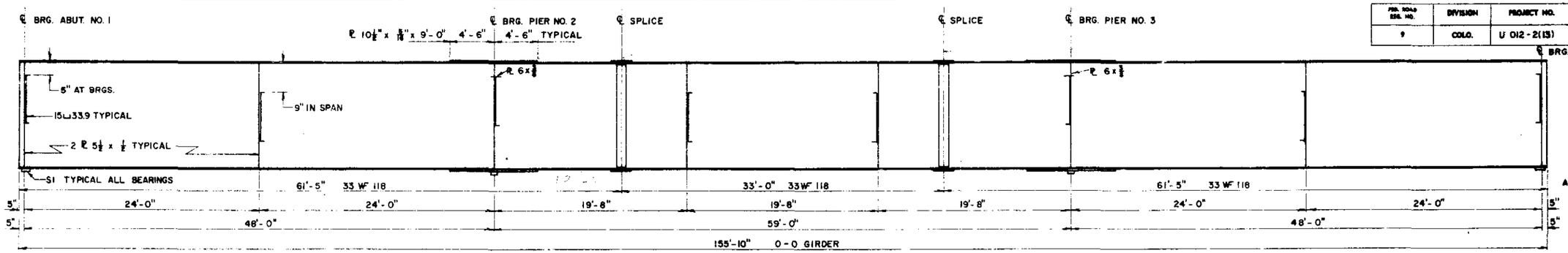
Approved by
Bridge Engineer
Date: 19

NORTH F-16-EE
STRUCTURE NO. SOUTH F-16-EF

REVISIONS

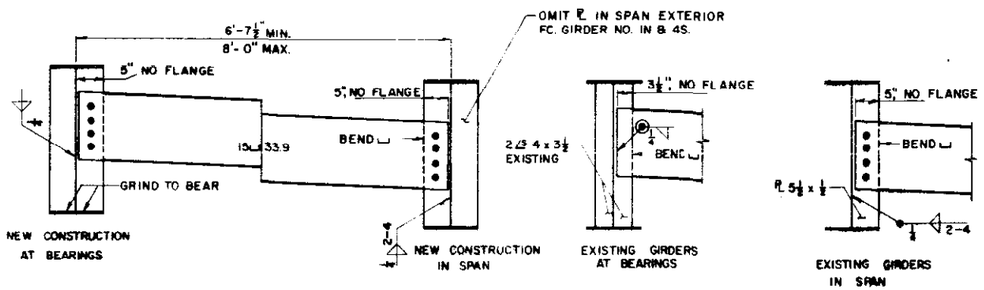
REVISIONS (R-1) 1-23-67 DECK SLAB DETAIL G.D.C.
SLAB ELEV. AT ℄ GIRDERS G.D.C.

FED. ROAD ESL. NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	U 012-2(13)	32	

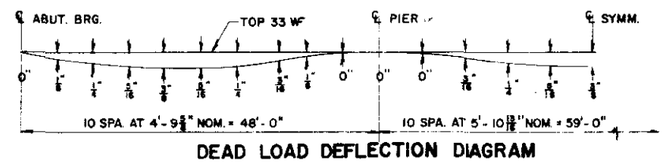


GIRDER ELEVATION

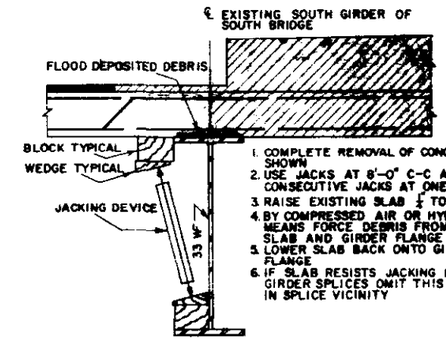
SPLICE BOLTS SHALL BE ⅞" DIAMETER, ALL OTHERS SHALL BE ¾"
FABRICATE ALL GIRDERS FLAT WITHOUT CAMBER AT SPLICES.
SPLICE HOLES SHALL BE SUBPUNCHED 13/16" DIAMETER AND REAMED
TO 13/16" DIAMETER WITH GIRDERS ASSEMBLED AND BLOCKED IN FLAT POSITION.



DIAPHRAGM & STIFFENER DETAILS



DEAD LOAD DEFLECTION DIAGRAM



1. COMPLETE REMOVAL OF CONC. AS SHOWN
2. USE JACKS AT 8'-0" C-C AND 3 CONSECUTIVE JACKS AT ONE TIME
3. RAISE EXISTING SLAB ¼" TO ⅜"
4. BY COMPRESSED AIR OR HYDRAULIC MEANS FORCE DEBRIS FROM BETWEEN SLAB AND GIRDER FLANGE
5. LOWER SLAB BACK ONTO GIRDER FLANGE
6. IF SLAB RESISTS JACKING NEAR GIRDER SPLICES OMIT THIS TREATMENT IN SPLICE VICINITY

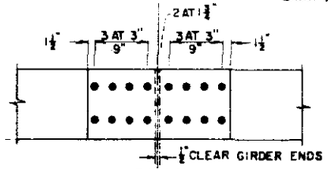
SPECIAL DETAIL FOR EXISTING SOUTH GIRDER OF SOUTH BRIDGE

(PAYMENT FOR THIS WORK SHALL BE INCLUDED IN ITEM 202)

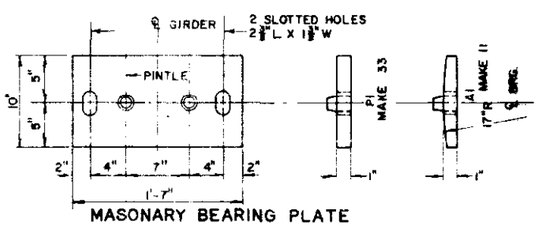
(R-1) ELEVATIONS AT ℄ GIRDER & TOP OF CONCRETE DECK
SLAB DOES NOT INCLUDE DEAD LOAD DEFLECTION

POINT GIRD.	℄ BRG. A1	1	2	3	4	5	6	7	8	9	℄ P2	1	2	3	4	5
IN	05.06	05.06	05.07	05.07	05.08	05.08	05.08	05.09	05.09	05.10	05.10	05.10	05.10	05.11	05.11	05.11
2C	05.28	05.31	05.35	05.39	05.43	05.48	05.52	05.56	05.60	05.64	05.68	05.73	05.78	05.82	05.87	05.92
4S	05.24	←			05.24	05.25	←				→	05.25	05.26	05.26	05.27	05.27

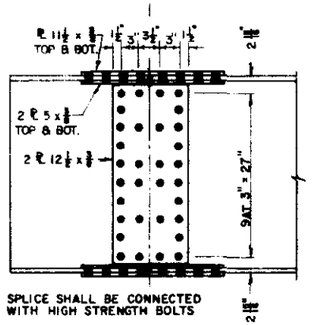
	5	6	7	8	9	℄ P3	1	2	3	4	5	6	7	8	9	℄ BRG. A4
IN	05.11	05.11	05.11	05.12	05.12	05.12	05.12	05.13	05.13	05.14	05.14	05.14	05.15	05.15	05.16	05.16
2C	05.92	05.97	06.02	06.06	06.11	06.16	06.20	06.24	06.28	06.32	06.36	06.41	06.45	06.49	06.53	06.59
4S	05.27	05.27	05.28	05.28	05.29	←	→	05.29	05.30	←		→	05.30	05.31	05.31	05.31



PLAN

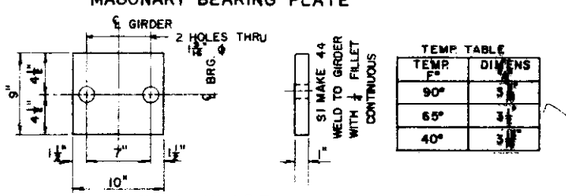


MASONRY BEARING PLATE



ELEVATION

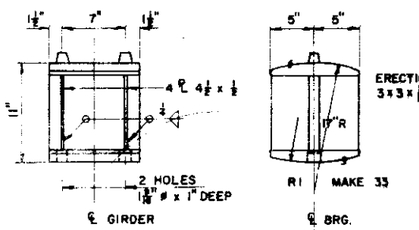
GIRDER SPLICE DETAIL



TEMP. TABLE

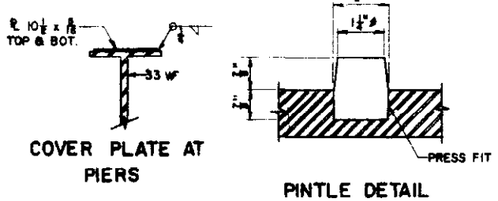
TEMP. F°	DIMENS.
90°	3
65°	3½
40°	3 13/16

SOLE PLATE



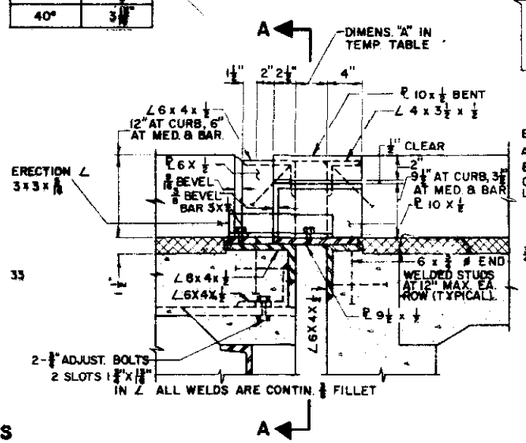
ROCKER

BEARING DEVICE DETAILS

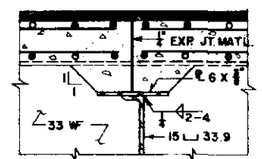


COVER PLATE AT PIERS

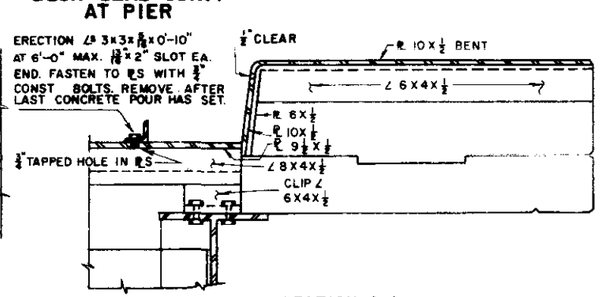
PINTLE DETAIL



SECTION AT ABUTMENTS

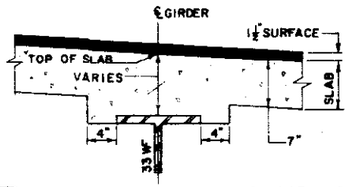


DECK SLAB JOINT AT PIER



SECTION A-A

EXTERIOR CURB SHOWN



(R-1) DECK SLAB DETAIL AT GIRDERS

EXPANSION DEVICE DETAILS

STRUCTURE NO. NORTH F-16-EE
SOUTH F-16-EF

DEPARTMENT OF HIGHWAYS
STATE OF COLORADO

GIRDER & STRUCTURAL STEEL DETAILS

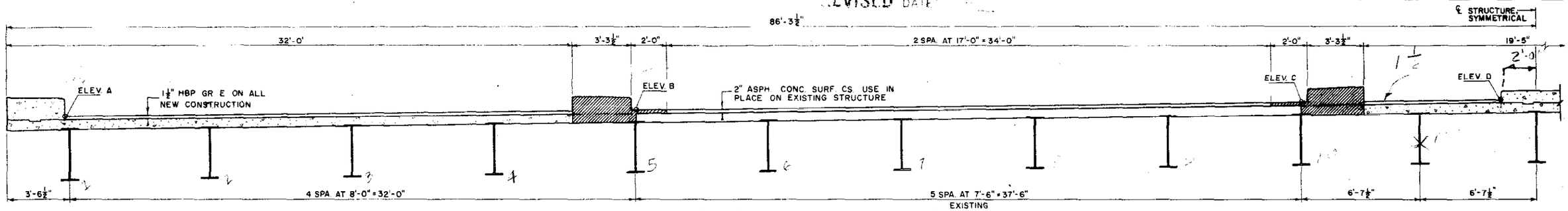
Across SOUTH PLATTE RIVER
Sta. 54+95.41 TO 56+53.84
Near DENVER Sec. 5 T. 4 S. R 68 W

Designed by T.V.S.	Approved by
Made by F.F.J.	Bridge Engineer
Checked by G.D.C.	Date: 19

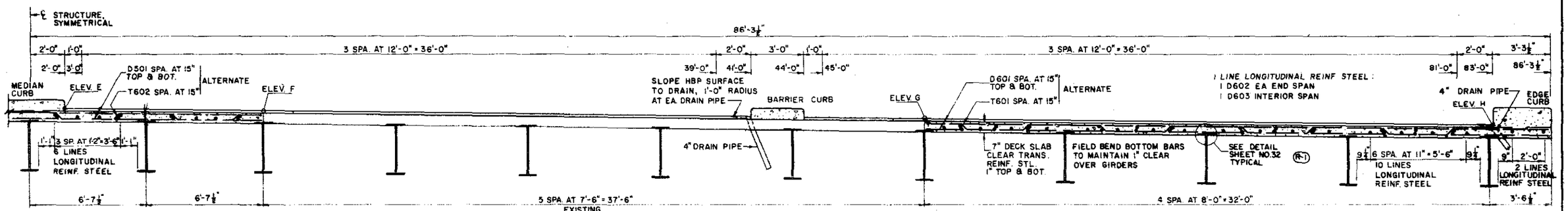
REVISIONS (R-1) 1-23-67 MEDIAN CURB DETAIL G.D.C.
BAR C405 G.D.C.
SUPERSTRUCTURE SECTION G.D.C.
TABLE OF ELEV. G.D.C.

FED. ROAD REG. NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	U-012-2(13)	33	

AS CONSTRUCTED
REVISED DATE



SUPERSTRUCTURE SECTION NORTH BRIDGE

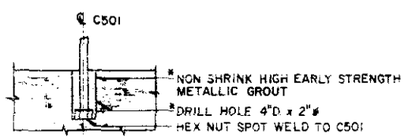


SUPERSTRUCTURE SECTION SOUTH BRIDGE

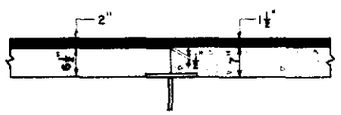
	ABUT NO. 1	PIER NO. 2	PIER NO. 3	ABUT NO. 4		ABUT NO. 1	PIER NO. 2	PIER NO. 3	ABUT NO. 4
NORTH SLOPE	0.00	0.00446	0.00996	0.0144	SOUTH SLOPE	0.00	0.00498	0.010486	0.0152
ELEV. A	05.19	05.23	05.25	05.29	ELEV. E	05.37	05.78	06.27	06.67
B	05.19	05.37	05.57	05.76	F	05.37	05.72	06.15	06.50
C	05.19	05.54	05.95	06.30	G	05.37	05.54	05.76	05.92
D	05.19	05.59	06.06	06.46	H	05.37	05.38	05.42	05.44

(R-1)

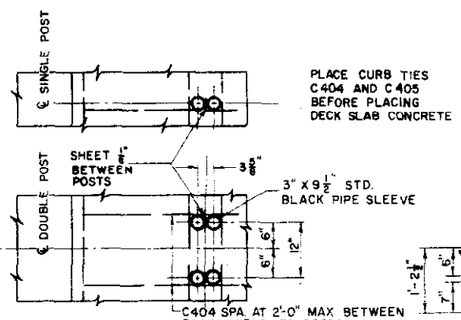
EXISTING
REMOVE
NEW CONST
LEGEND

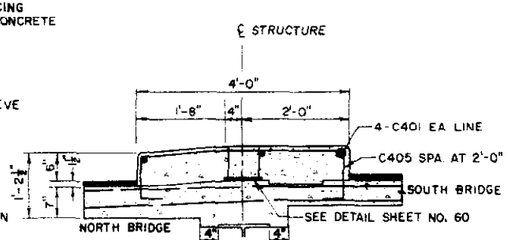


ANCHOR INSTALLATION

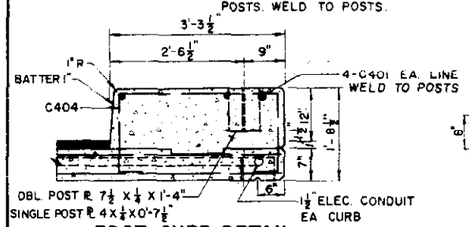


SURFACING DETAIL

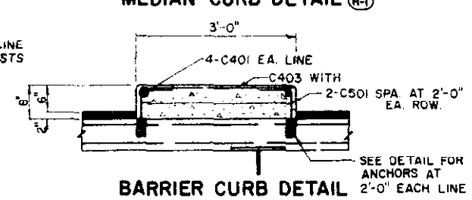




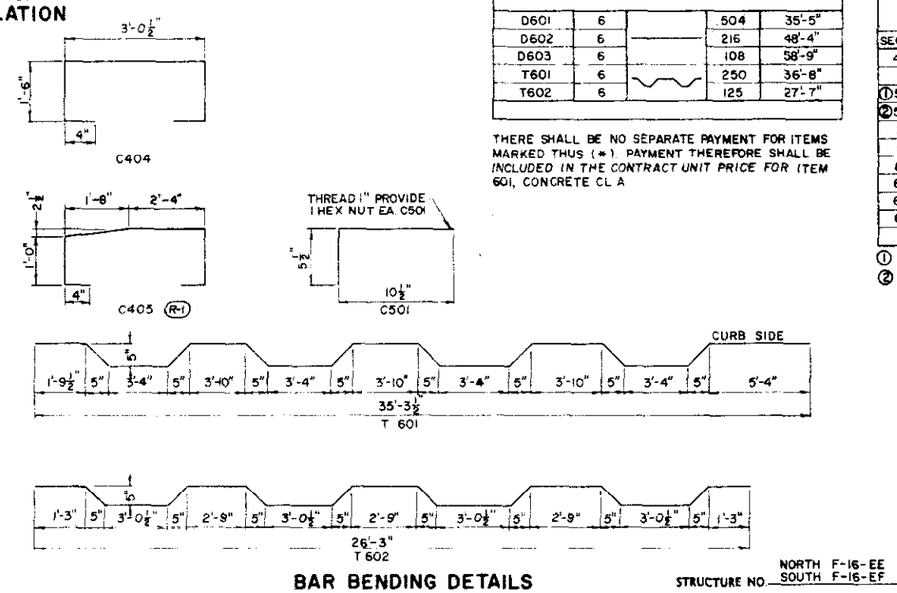
MEDIAN CURB DETAIL (R-1)



EDGE CURB DETAIL



BARRIER CURB DETAIL



BAR BENDING DETAILS

BAR LIST

MARK	SIZE	SHAPE	NO. REQD.	LENGTH
C401	4		68	40'-0"
C403	4		156	2'-9"
C404	4		180	6'-8½"
C405	4		78	6'-5"
C501	5		312	1'-4"
D501	5		252	26'-4"
D601	6		504	35'-5"
D602	6		216	48'-4"
D603	6		108	58'-9"
T601	6		250	36'-8"
T602	6		125	27'-7"

THERE SHALL BE NO SEPARATE PAYMENT FOR ITEMS MARKED THUS (*). PAYMENT THEREFORE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 601, CONCRETE CL. A

BAR SUMMARY

4860 L.F.	#4	AT	0.668 #/FT	=	3245
7050 L.F.	#5	AT	1.043 #/FT	=	7365
47,240 L.F.	#6	AT	1.502 #/FT	=	71,000
			TOTAL	=	81,600

SUMMARY OF QUANTITIES

SECTION	UNIT	ITEM	AMOUNT
403	TON	HBP (GR. E)	58 ~~138~~
411	GAL.	LIQ. ASPH. MATL. (RC-800)	148 ~~182~~
①509	L.S.	STR. STEEL	L.S.
②509	L.S.	STR. STEEL (GALV.)	L.S.
210	LIN. FT.	RES. RAILING	375
513	EA.	DRAIN PIPE 4 IN (-4 FT.)	36 ~~28~~
601	CU. YD.	CONCRETE CL. A	439 ~~414~~
602	LB.	REINF. STEEL 80,158	~~81,600~~
606	LIN. FT.	GD RAIL TY 3A (DOUBLE)	150
613	LIN. FT.	1½ IN ELEC. CONDUIT	40 ~~386~~

① DESIGN WEIGHT = 254,855 LB.
② DESIGN WEIGHT = 2,865 LB.

JEFFERSON ASSOCIATES
CIVIL ENGINEERS

DEPARTMENT OF HIGHWAYS
STATE OF COLORADO

SUPERSTRUCTURE DETAILS

Across SO. PLATTE RIVER ON 6TH AVE.
Sta. 54 + 95.41 TO 56 + 53.84
Near DENVER Sec. 5 T. 4S R. 68W

Designed by T.V.S.
Made by G.A.M.
Checked by G.D.C.
Approved by Bridge Engineer
Date: 19

STRUCTURE NO. NORTH F-16-EE
SOUTH F-16-EF

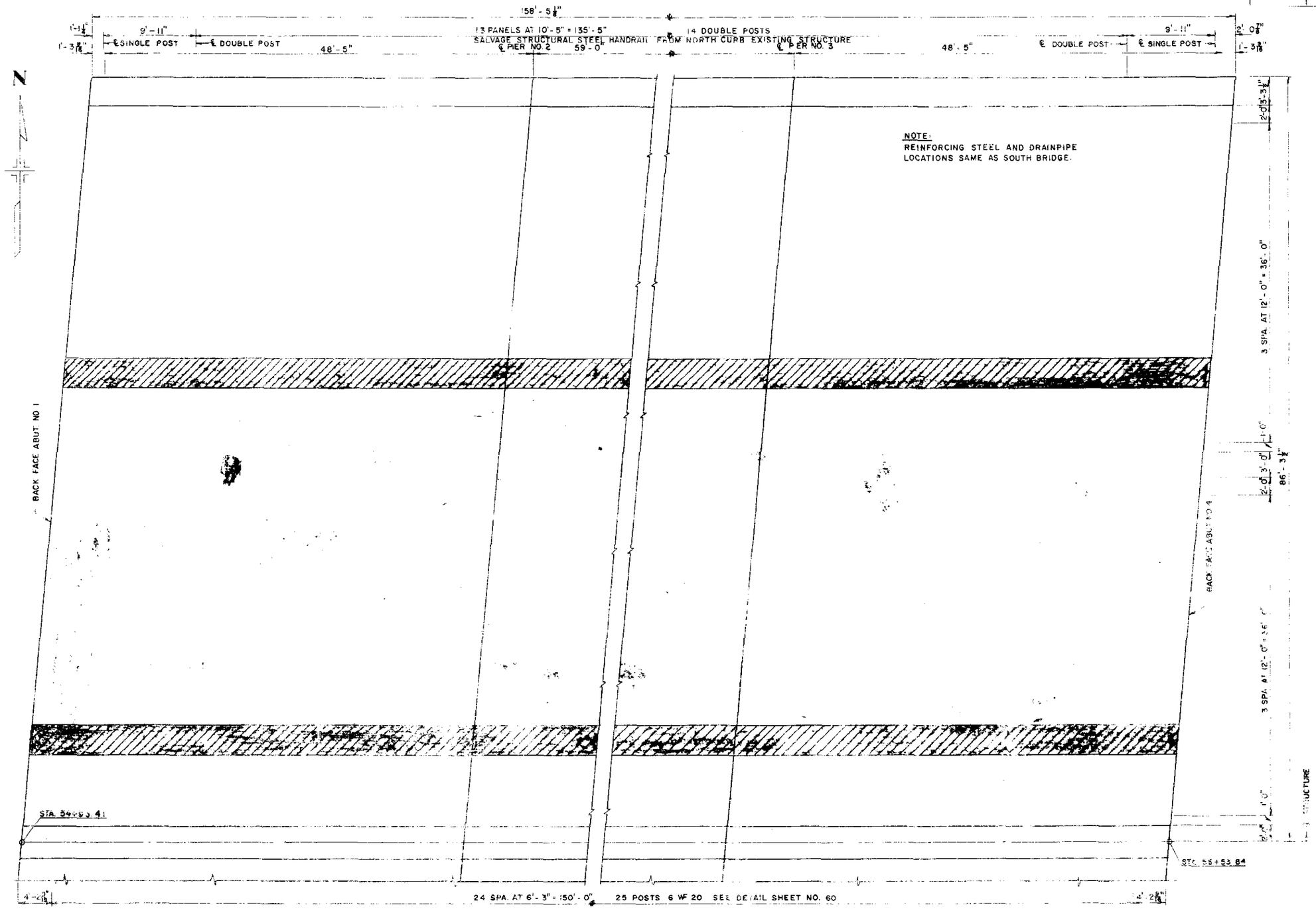
HIGHWAYS COLORADO
H. 137

Initial	Date
ED BY	
ED BY	
BY	
ED BY	
BY	
ED BY	

REVISIONS

REVISIONS

FED. ROAD REG. NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	U012-2(13)	34	



JEFFERSON ASSOCIATES
CIVIL ENGINEERS

DEPARTMENT OF HIGHWAYS
STATE OF COLORADO

DECK PLAN
NORTH BRIDGE

Across SOUTH PLATTE ON 6th AVE.
Sta. 54+95.41 TO 56+53.84
Near DENVER Sec. 5 T. 4S R68W

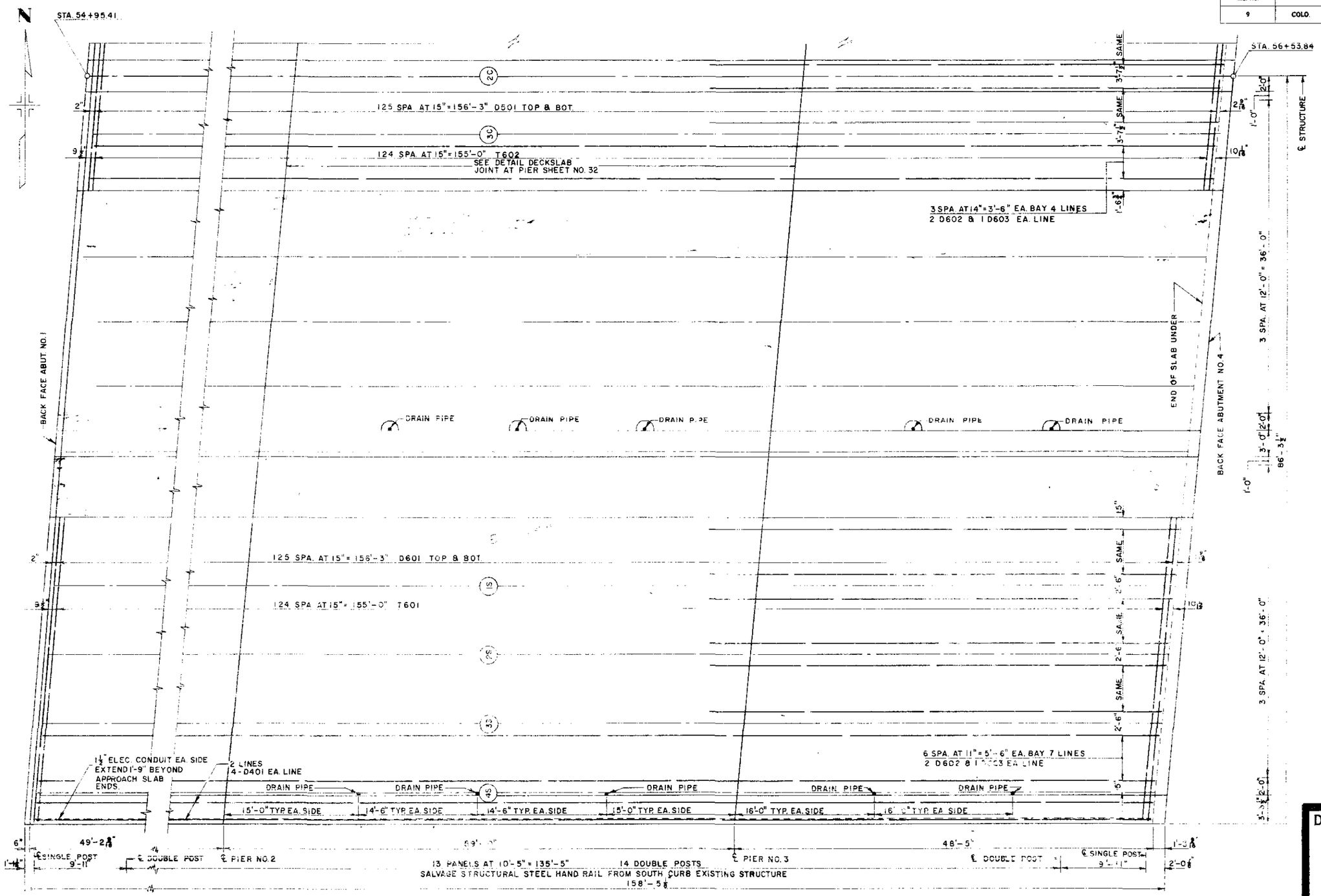
Designed by G.D.C.	Approved by
Made by F.F.J.	Bridge Engineer
Checked by T.V.S.	Date: 19

STRUCTURE NO NORTH F-16-EE
SOUTH F-16-EF

REVISIONS

REVISIONS

FED. ROAD REG. NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	U 012 - 2(13)	35	



STRUCTURE NO. NORTH F-16-EE
SOUTH F-16-EF

JEFFERSON ASSOCIATES
CIVIL ENGINEERS

DEPARTMENT OF HIGHWAYS
STATE OF COLORADO

DECK PLAN
SOUTH BRIDGE

Across SOUTH PLATTE ON 6th AVE.
Sta. 54+95.41 TO 56+53.84
Near DENVER Sec. 5 T. 4S R. 68W

Designed by G.D.C.
Made by R.L.
Checked by T.V.S.

Approved by
Bridge Engineer
Date: 19