

STATE DEPARTMENT OF HIGHWAYS
DIVISION OF HIGHWAYS—STATE OF COLORADO

PLAN AND PROFILE OF PROPOSED "AS CONSTRUCTED" PLAN
FEDERAL AID PROJECT NO. BRS 0006 (14)
STATE HIGHWAY NO. 6
MORGAN COUNTY

PROJECT NO.	BR5 0006(14)	SHEET NO.	1
AS CONSTRUCTED			
NO REVISIONS			
REVISED 21 JUL 87 VOID			
REVISIONS			

INDEX OF SHEETS

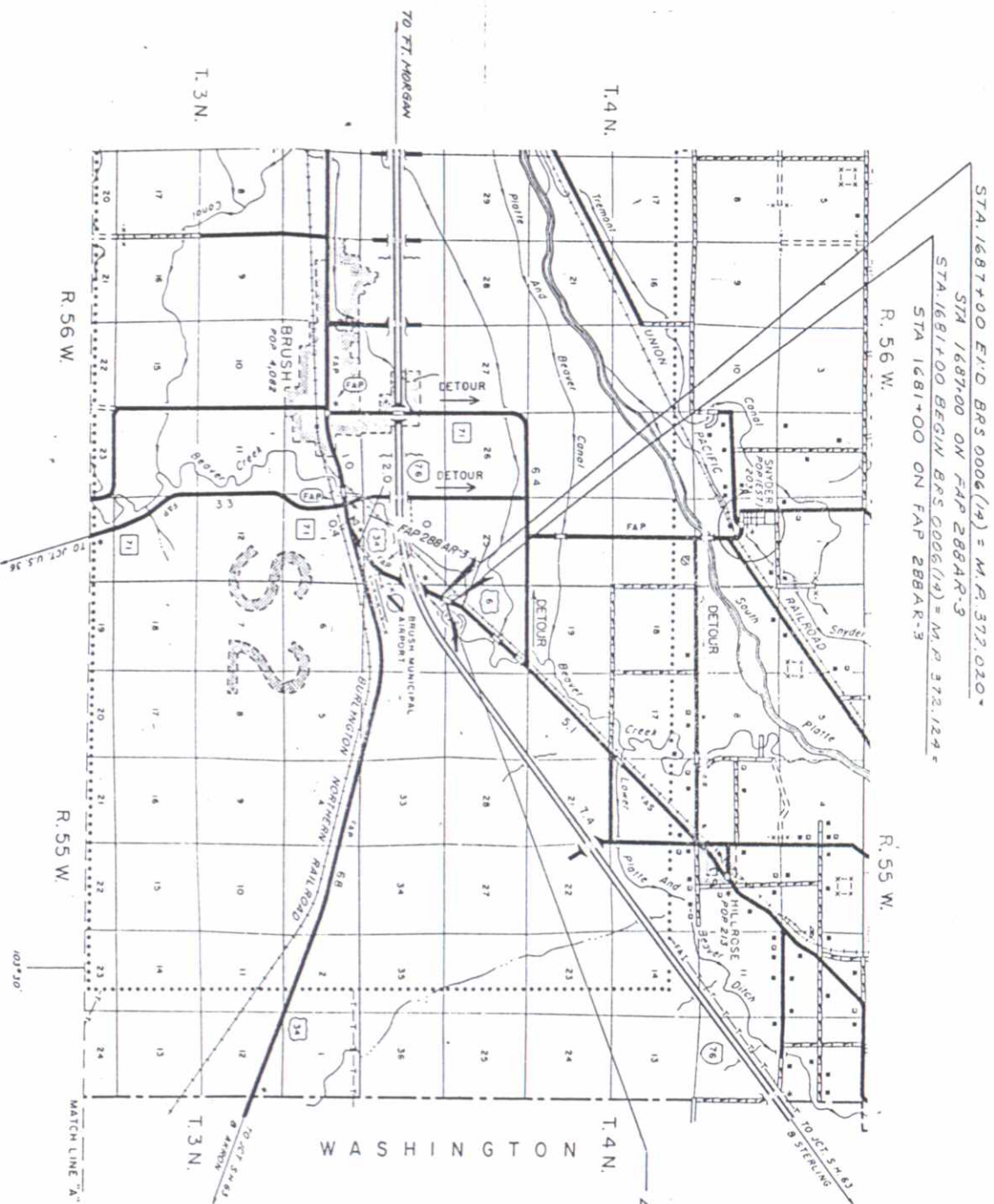
- SHEET NO.
1. Title Page, Sketch Map and Tabulation of Length and Design Data
 2. Standard Plans List
 3. Typical Sections
 4. General Notes, Seeding Plan and Detail of Guard Rail Reflector Tab.
 - 5-6. Summary of Approximate Quantities
 7. Structure Quantities
 8. Surfacing Plan, Fencing, Guard Rail, Ground Stabilization
 - 9-21. Construction Traffic Control Devices and Summary of Earthwork Quantities
 22. Bridge Details
 23. Plan and Profile

ON PLAN, 1 IN. = 50 FT.
ON PROFILE, 1 IN. = 50 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD

TABULATION OF LENGTH AND DESIGN DATA

STATION	ROADWAY	MAJOR STRUCTURE
1681+00 BEGIN PROJ. NO. BRS 0006(14) M.P. 372.124	LIN. FT.	LIN. FT.
1682+93.17 STA. NO. C-22-CR 1683+76.83	139.2	83.6
1687+00 END PROJ. NO. BRS 0006(14) M.P. 372.020	923.2	
TOTALS	516.4	83.6
SUMMARY	LIN. FT.	MILES
ROADWAY	516.4	0.098
MAJOR STRUCTURE	83.6	0.016
GROSS AND NET LENGTH	600.0	0.119
DESIGN DATA		
MAXIMUM DEGREE OF CURVE	N.A.	
MAXIMUM GRADE	2.90 %	
MINIMUM S.S.D. HORIZONTAL	> 600'	
MINIMUM S.S.D. VERTICAL	> 600'	
MAXIMUM DESIGN SPEED	70 MPH	
2006 DESIGN TRAFFIC VOLUME	{ DHV = 231 ADT = 1924 PMV % TRUCKS = 11	

REFER TO PROJ. NO. 288AR-#3



SCALE IN MILES
SCALE IN KILOMETRES

DIVISION OF HIGHWAYS

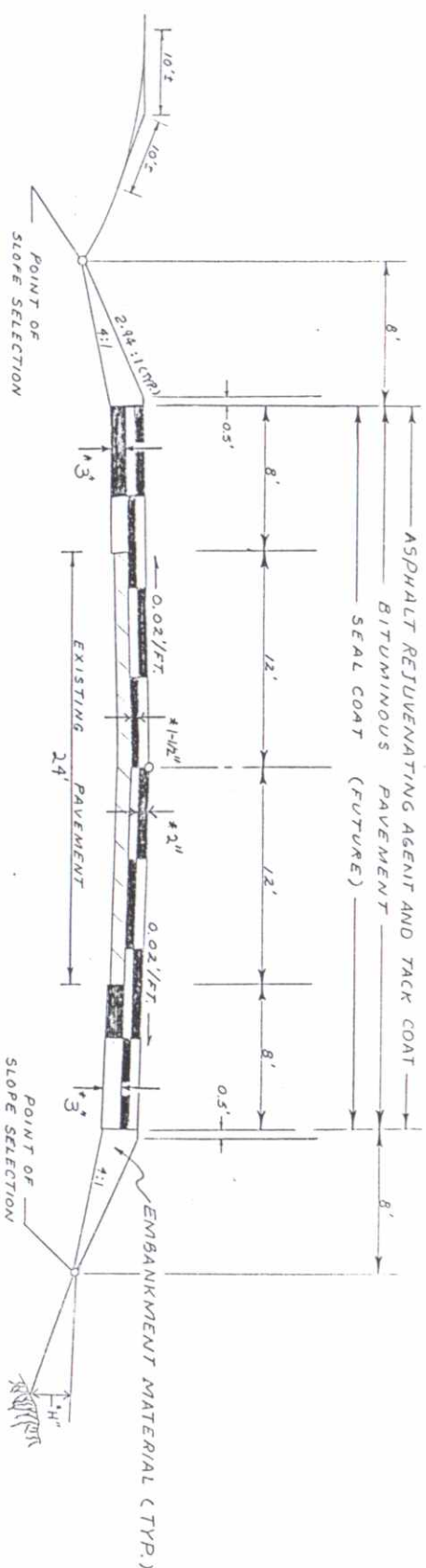
APPROVED: *James C. Hubbell* 11-6-96
FIRST CHIEF ENGINEER DATE

AS CONSTRUCTED INFORMATION

CONTRACTOR BEBO CONSTRUCTION CO.
RESIDENT ENGINEER L. DUANE MULLER
(Project or Resident)
PROJECT STARTED 13 JAN 87
PROJECT COMPLETED 21 JUL 87
AS CONSTRUCTED PLANS APPROVED *W. H. HARRIS*
DIST. CONSTR. ENGR. 10-8-87 DATE

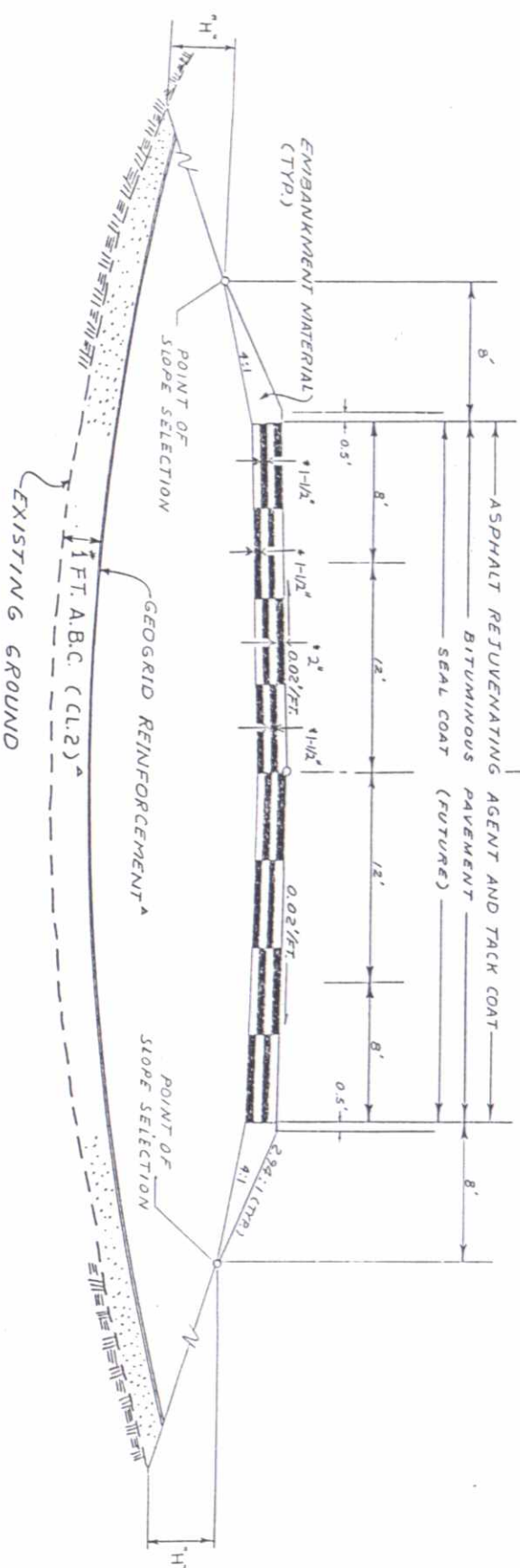
TYPICAL SECTIONS

(STA. 1681+00 to 1681+29)
(STA. 1684+53 to 1687+00)



* APPROXIMATE THICKNESS

(STA. 1681+29 to 1682+93)
(STA. 1683+77 to 1684+53)



²⁹
{ STA. 1681+~~53~~ TO 1682+93 }
⁵³
{ STA. 1683+77 TO 1684+~~53~~ } STATIONS FOR GEOGRID REINFORCEMENT AND A.B.C. (CL. 2).

AS CONSTRUCTED			FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	SHEET TOTALS
NO REVISIONS	REVISED	21 JUL 87	VOID	VIII	COLO.	ERS 0006(14)	3

TYPICAL SECTION NOTES:
MATERIAL SHALL BE PLACED IN SEPARATE COURSES AT THE FOLLOWING APPROXIMATE RATES PER 100 LIN. FT. OF ROADWAY:

BITUMINOUS PAVEMENT	TOP LAYER	49 TONS
	2nd LAYER	37 TONS
	BOTTOM LAYER	30 TONS

THE RATES SHOWN HERE HAVE BEEN DETERMINED FROM INFORMATION AVAILABLE AT THE TIME OF DESIGN. RATES SHOULD BE ADJUSTED DURING CONSTRUCTION TO OBTAIN THE REQUIRED THICKNESS.

FILL SLOPES:

SLOPE 4:1 WHERE "H" IS 5' OR LESS
SLOPE 3:1 WHERE "H" IS 5' TO 10'
SLOPE 2:1 WHERE "H" IS OVER 10'

(USE APPLICABLE SLOPES FOR EACH TYPICAL SECTION)

TYPICAL SECTION NOTES:

MATERIAL SHALL BE PLACED IN SEPARATE COURSES AT THE FOLLOWING APPROXIMATE RATES PER 100 LIN. FT. OF ROADWAY:

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	2nd LAYER	37 TONS
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THE RATES SHOWN HERE HAVE BEEN DETERMINED FROM INFORMATION AVAILABLE AT THE TIME OF DESIGN. RATES SHOULD BE ADJUSTED DURING CONSTRUCTION TO OBTAIN THE REQUIRED THICKNESS.

GENERAL NOTES

FOR PRELIMINARY PLAN QUANTITIES OF PAVEMENT MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:

AGGREGATE BASE COURSE 0 133 LBS. PER CU FT.

TACK COAT DILUTED EMUL. ASPH. (SS) @ 10 GALS./50 YD. (DILUTED)

BITUMINOUS PAVEMENT @ 110 LBS. PER 50 YD./INCH

ASPHALT REJUVENATING AGENT @ .05 GALS./50 YD. (DILUTED)

DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT AND 1 PART WATER.

ASPHALT REJUVENATING AGENT SHALL BE DILUTED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. FOR ESTIMATING PURPOSES, 2 GAL. OF ASPHALT REJUVENATING AGENT TO ONE GAL. OF WATER WAS USED.

IT SHOULD BE NOTED THAT THE USE OF ASPHALT REJUVENATING AGENT IS DEPENDANT ON RESULTS OF TESTS PERFORMED AFTER COMPLETION OF SURFACING AND MAY NOT BE REQUIRED.

REJUVENATING AGENT IF REQUIRED WILL BE APPLIED AS SEAL COAT AT TIME OF CONSTRUCTION. RATES OF APPLICATION SHALL BE AS DETERMINED BY THE ENGINEER AT THE TIME OF APPLICATION.

WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE AS ORDERED THE COST OF WATER WILL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE WORK.

THE FOLLOWING SHALL BE FURNISHED WITH EACH BITUMINOUS PAYER.

1. A SKI TYPE DEVICE AT LEAST 30 FEET IN LENGTH.

2. SHORT SKI OR SHOE.

ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACED.

ROAD APPROACHES WHICH REQUIRE BITUMINOUS PAVEMENT SHALL HAVE A 2" THICKNESS OF PAVEMENT PLACED AS FOLLOWS:

OF PUBLIC APPROACHES AND ENTRANCES TO BUILDINGS OR RESIDENCES SHALL BE PAVED 50 FEET OUT FROM EDGE OF SHOULDER OR TO THE RIGHT OF WAY LINE, WHICHEVER IS LESS. FIELD ENTRANCES SHALL BE PAVED 4 FEET OUT FROM EDGE OF SHOULDER.

DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:

FULL DEPTH OF ALL EMBANKMENTS.

BASES OF CUTS AND FILLS .5 FOOT (EXCEPT WHERE THE GEOGRID IS TO BE PLACED.)

TYPE OF COMPACTION FOR THIS PROJECT WILL BE AASHTO T-99

GUARD POSTS AND DELINEATORS WILL BE REMOVED BY STATE FORCES AT NO COST TO THE PROJECT MILE POSTS WILL BE ADJUSTED OR RESET BY STATE FORCES AT NO COST TO PROJECT.

FINAL SIGNING AND STRIPPING WILL BE DONE BY STATE FORCES.

~~IT IS ESTIMATED THAT 160 TONS OF AGGREGATE BASE COURSE (CLASS 2) WILL BE REQUIRED ON THIS PROJECT UNDER GEOGRID. THE COST OF WATER FOR COMPACTION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.~~

IT IS ESTIMATED THAT 160 CU YD. OF CHANNEL EXCAVATION WILL BE REQUIRED. THE CHANNEL CHANGE WILL BE APPROXIMATELY 120 FT LONG, 14 FT WIDE AND 2 FT DEEP. THE ACTUAL ALIGNMENT WILL BE DETERMINED DURING CONSTRUCTION TO BEST FIT FIELD CONDITIONS.

SEEDING PLAN

Seeding, "Soil Preparation, Fertilizing with Commercial Fertilizer, and Mulching will be required for approximately 0.6 acres for roadway within right-of way limits on all disturbed areas not surfaced.

*Not to be paid for separately but shall be included in the work. See Standard Special Spec. Revision of Section 212 and 213 Seeding, Sodding, and Mulching.

The following types and rates shall be used:

COMMON NAME	BOTANICAL NAME	LBS. PLS/ACRE	OZ. PLS/ACRE
Carleton Foxtail	Alopercurus Arundinaceus	2	
V. Carleton			
Fatway Crested Wheatgrass	Arctopyron Cristatum	6	
Western Wheatgrass V. Barton	Arctopyron Smallii	7	
Sand Dropped	Isotriodolus Cytolactis	0.25	
Alfalfa V. Ladak	Medicago Sativa	2	
Blue Grass V. N. N. Native	Bouteloua Gracilis	2	
Winter Wheat	Triticum Aestivum	10	
Seed Fertilizer	Phalaris Arundinaceus	2	
A For Spring Planting			
Subculture Oats	Avena Sativa	10	

TOTAL LBS PLS/ACRE	31.25
Fertilizer (Nutrient Requirement)	% Available Lbs/Acre Available
Nitrogen:	18 54
Phosphorus:	46 138
Potassium:	0 0

Seeding Application:
Seed Shall Be Mechanically Drilled 0.25" - 0.50" Into Soil.

Mulching Requirement and Application:
1 - 1/2 Tons Per Acre Native Hay Mechanically Crimped Into Soil.

Project Totals	(Native)	FINAL TOTAL
Seeding	0.6 Acres	1.16 A.
Mulching	0.6 Acres	1.16 A.

See Item 305

DETAIL OF GUARD RAIL REFLECTOR TAB

NOTES:

REFLECTOR TAB SHALL BE MANUFACTURED FROM 8 GAUGE GALVANIZED STEEL TO THE DIMENSIONS SHOWN ABOVE.

SMOOTH SURFACE TYPE REFLECTIVE SHEETING AS SPECIFIED IN SECTION 713.10 OF THE STANDARD SPECIFICATIONS SHALL BE APPLIED TO THE REFLECTOR TAB.

REFLECTOR TAB SHALL BE MOUNTED WITH REFLECTORIZED SURFACE FACING APPROACHING TRAFFIC.

FOR TWO-LANE ROADWAY, BOTH SIDES OF TAB SHALL BE REFLECTORIZED. FOR DIVIDED ROADWAY, ONE SIDE OF TAB SHALL BE REFLECTORIZED AND THE COLOR OF REFLECTIVE SHEETING SHALL MATCH THE COLOR OF THE EDGE STRIPE ON THE PAVEMENT, EITHER CRYSTAL OR YELLOW.

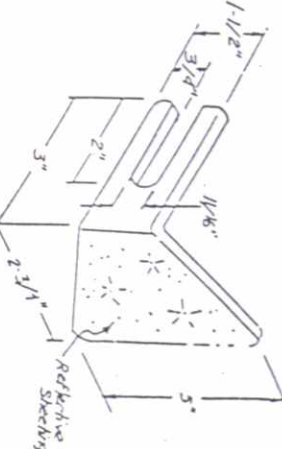
REFLECTOR TABS SHALL BE MOUNTED ON ALL GUARD RAIL TYPE J AT ALTERNATE POSTS ON A MAXIMUM SPACING OF 12'-6" BEGINNING AT THE THIRD POST FROM THE END SECTION.

IF THE TAB SHOULD FALL ON A GUARD RAIL SPICE, A RECTANGULAR WASHED SHALL BE PLACED BETWEEN THE REFLECTOR TAB AND THE GUARD RAIL.

SEE COLORADO STANDARD PLANS M-606-1 AND M-606-2 FOR GUARD RAIL STANDARDS.

REFLECTOR TABS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF GUARD RAIL ITEMS.

MOUNTING POSITION ON GUARD RAIL TYPE J



REFLECTOR TAB

Checked By	CSM	DATE	4/86
Designed By	DAG	Checked By	CSM
Checked By	DAG	Quantities By	CSM
Detailed By	CSM	Checked By	RAD

GENERAL NOTES

ALL WORK SHALL BE DONE ACCORDING TO THE STANDARD SPECIFICATIONS OF THE DIVISION OF HIGHWAYS, STATE OF COLORADO, APPLICABLE TO THE PROJECT.

STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH STANDARD M-206-2

EXPANSION JOINT MATERIAL SHALL MEET ASHTO SPECIFICATION M-213.

ALL STRUCTURAL STEEL EXCEPT PILING SHALL BE ASHTO M-183 (ASTM A-36) UNLESS OTHERWISE NOTED.

GRADE 60 REINFORCING STEEL IS REQUIRED.

THE FOLLOWING TABLE GIVES THE MINIMUM LAP SPLICE LENGTH FOR REINFORCING BARS:

BAR SIZE	#4	#5	#6	#7	#8	#9	#10	#11
SPLICE LENGTH FOR CLASS A CONCRETE	1'-0"	1'-3"	1'-8"	2'-3"	3'-0"	3'-10"	4'-10"	5'-11"
SPLICE LENGTH FOR CLASS D CONCRETE	1'-0"	1'-3"	1'-6"	2'-0"	2'-7"	3'-4"	4'-2"	5'-1"

APPLIED WIND LOADS AND EARTHQUAKE LOADS WERE NOT CONSIDERED IN ANALYZING THE STRUCTURE FOR STABILITY DURING THE CONSTRUCTION PHASES.

E.F. = EACH FACE

FOR STRUCTURE NUMBER INSTALLATION, SEE STANDARD S-614-12.

(N) DESIGNATES NON-EPOXY COATED REINFORCING STEEL

USE CLASS 5 FINISH ON ALL VISIBLE EXPOSED AREAS.

DESIGN DATA

CURRENT ASHTO SPECIFICATIONS.

LIVE LOAD: ASHTO HS-20-44 AND INTERSTATE ALTERNATE DEAD LOAD: ASSUMES 48 LBS. PER SQ. FT. FOR BITUMINOUS PAVEMENT

REINFORCED CONCRETE:

CLASS A CONCRETE: $f_c = 1,200$ psi, $n = 9$

CLASS D CONCRETE: $f_c = 1,800$ psi, $n = 8$

REINFORCING STEEL: $f_y = 24,000$ psi

STRUCTURAL STEEL: ASHTO M-183 (ASTM A-36) $f_y = 20,000$ psi

SUMMARY OF APPROXIMATE QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	SUPER-STRUCTURE	ABUT. 1	PIER 2	ABUT. 3	RETAIN. WALLS	APPROCH. SLAB	TOTAL	FINISH TOTALS
202	REMOVAL OF BRIDGE	EACH							1	1.00
206	STRUCTURE EXCAVATION	CU YD		322	242	210	28		802	802.00
206	STRUCTURE BACKFILL (CLASS 1)	CU YD		438		355	714		1534	1534.00
206	STRUCTURE BACKFILL (CLASS 2)	CU YD			217				217	207.00
206	FILTER MATERIAL (CLASS B)	CU YD		11		12			23	23.00
403	HOT BITUMINOUS PAVEMENT (GRADING F)	TON	41						41	
502	STEEL PILING (HP 12X53)	LIN FT		260.16	223.80	210.26	752.90			
502	STEEL PILING - CUTOFF	LIN FT		193	193	193	579		1267	1447.12
509	STRUCTURAL STEEL (GALVANIZED)	LB			402				402	402.00
515	WATERPROOFING (MEMBRANE)	SQ YD	372						372	372.00
518	WATERSTOP (6 INCH)	LIN FT		20		20			40	40.00
601	CONCRETE CLASS A (BRIDGE)	CU YD		20.7	17.9	20.7	68.7		128	128.00
601	CONCRETE CLASS D (BRIDGE)	CU YD	218.4	51.5	21.0	53.3		51.8	396	396.00
602	REINFORCING STEEL	LB		1008	934	1008	3405		6355	6355.00
602	REINFORCING STEEL (EPOXY COATED)	LB	45430	15075	4432	15125	2905	7020	89987	89987.00
606	BRIDGE RAIL TYPE 3	LIN FT	291						291	291.00
625	CONSTRUCTION SURVEYING	L.S.							0.70	43100.00
626	MOBILIZATION	L.S.							0.70	112146.00

- ① Concrete Class D (Bridge) may be used in place of Concrete Class A (Bridge).
- ② Includes both approach slabs.

NO REVISIONS	AS CONSTRUCTED	REMOVED	21 JUL 87	VOID
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FEDERAL ROAD DISTRICT NO.	DIVISION	PROJECT NUMBER	SHEET NUMBER
3E	COLORADO	BRS 0006 (14)	9

BRIDGE STANDARD 0

INDEX OF DRAWINGS

- DWG. NO. B1 GENERAL INFORMATION - SUMMARY OF APPROXIMATE QUANTITIES
- DWG. NO. B2 GENERAL LAYOUT
- DWG. NO. B3 ENGINEERING GEOLOGY
- DWG. NO. B4 CONSTRUCTION LAYOUT - PILING LAYOUT
- DWG. NO. B5 ABUTMENT 1 AND 3 DETAILS
- DWG. NO. B6 WINGWALL AND RETAINING WALL DETAILS
- DWG. NO. B7 PIER 2 DETAILS
- DWG. NO. B8 SUPERSTRUCTURE DETAILS
- DWG. NO. B9 SUPERSTRUCTURE DECK PLAN
- DWG. NO. B10 BRIDGE RAIL TYPE 3
- DWG. NO. B11 APPROACH SLAB DETAILS
- DWG. NO. B12 BRIDGE DECK ELEVATIONS
- DWG. NO. B13 ROADWAY APPROACHES

BRIDGE DESCRIPTION

2 SPAN (41'-0" 41'-0")
CONCRETE RIGID FRAME BRIDGE
U.S. 6 OVER BEAVER CREEK.
40'-0" ROADWAY CURB TO CURB
90° 00' 00" SKEW
1'-3" CURBS, BRIDGE RAIL TYPE 3

DIVISION OF HIGHWAYS

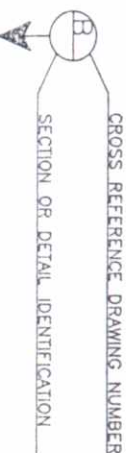
GENERAL INFORMATION
SUMMARY OF QUANTITIES

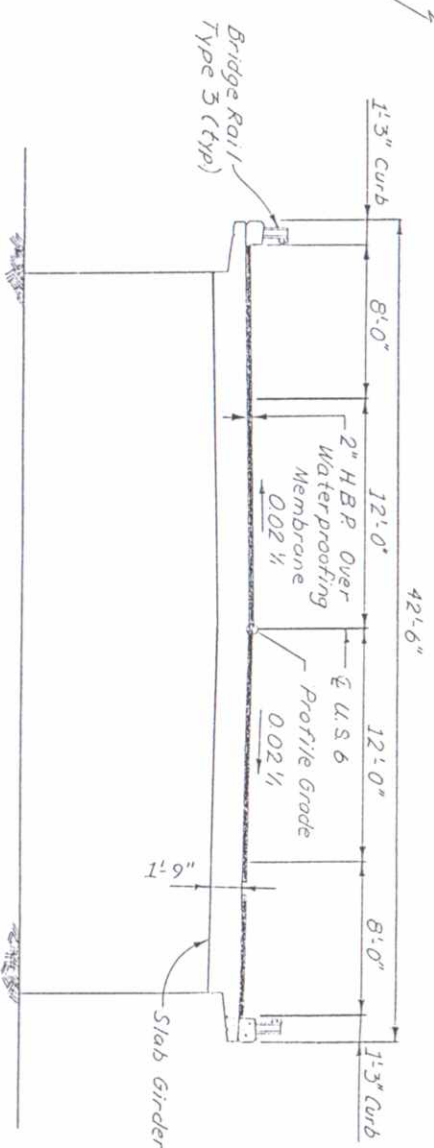
Station 1682+93.17 TO
Station 1683+76.83

Neer BRUSH	SEC 30	T 4 N	R 55 W
Designer G. MOORE	Structure	C-22-BR	
Detailer G. MOORE	Numbers		
Drawing Number B 1	of 13	Drawings	

Revision Dates (Preliminary Stage Only)

Approved	9918
BRIDGE ENGINEER	DATE 7-25-86





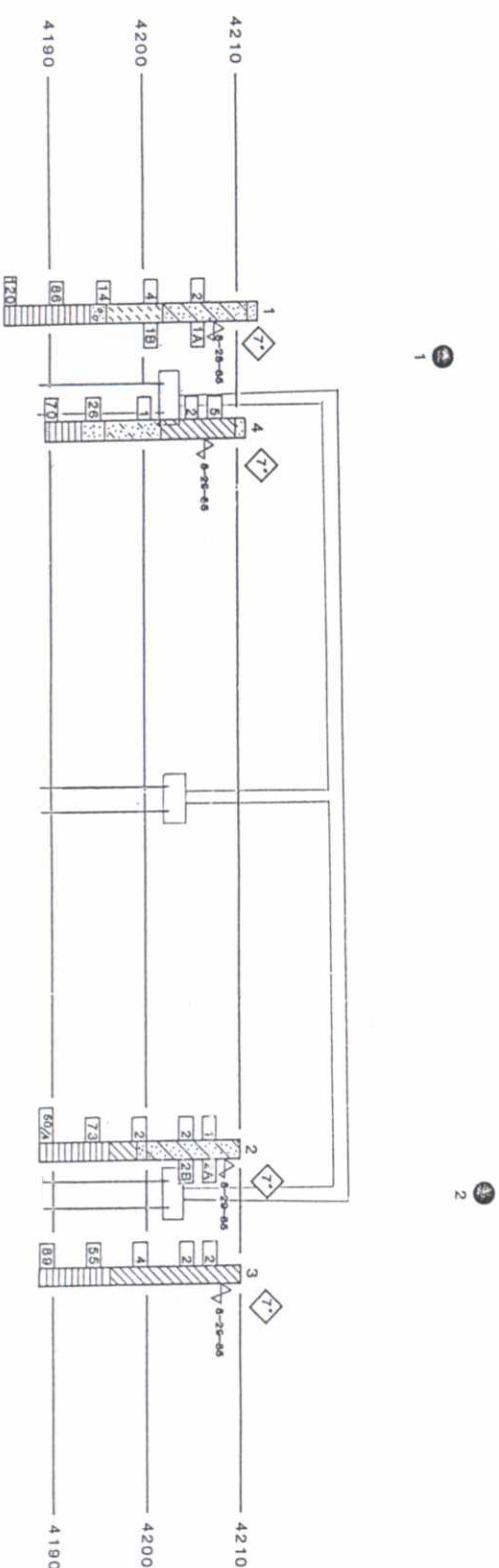
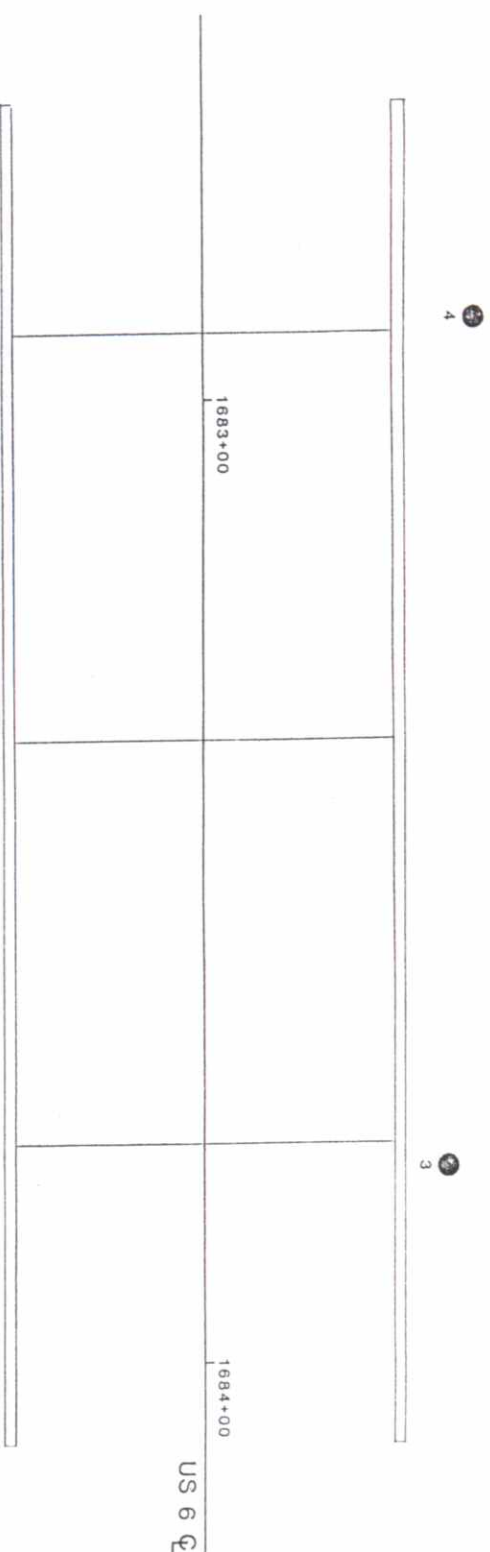
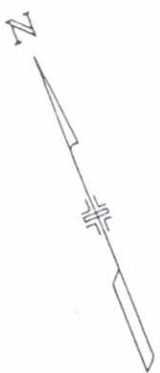
HYDRAULIC INFORMATION

Live Loading - HS20-44 and Interstate Alternates



AS CONSTRUCTED		FED ROAD REF NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
NO REVISIONS	REVISED	VOID	XIII	COLORADO	BRS 0006 (74)	//

SCALE 1' - 10'



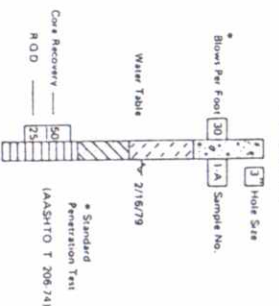
SUMMARY OF TEST RESULTS

No.	Classification	Grading Analysis										Trial D ₅₀ at Base of Fill		
		Coars. at Top of Vertical	Percent					Atterberg Limits					Wet Cont. of Water in F. C. F.	Wet Unit Strength Q _u T. S. F.
			Gravel	Coarse Sand	Fine Sand	Silt and Clay	Liquid Limit L ₉₀	Plastic Limit P ₁₀₀	Plastic Index I _p					
1.0	SALT SAND	A-4(0)	0	1	62	37	23	21	2	28.1				
12.0	SANDY SILT	A-4(0)	0	1	30	68	NV	NP	NP	25.2				
13.0	SANDY CLAY	A-7-6(12)	1	6	37	67	60	26	26	64.8				
29.6	CLAY	A-7-6(3)	0	1	6	91	67	26	32	37.9				

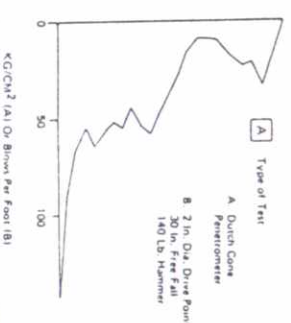
TYPE OF MATERIAL

	CLAY
	CLAYEY SILT
	SAND
	SANDY CLAY
	SANDY SILT
	GRAVELLY SAND
	SANDY SHALE

TEST BORING



CONTINUOUS PENETRATION TEST



DIVISION OF HIGHWAYS

ENGINEERING GEOLOGY
NE OF BRUSH

Geologist LSB	Date 9-30-86
Drawn by TM	
Checked by LSB	

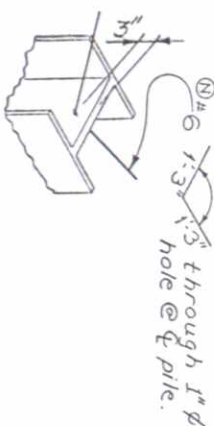
STRUCTURE NO. C-22-BR
DWG. NO. B 3

— OF — 73 —

Date 9-30-86

CURB DRAIN DETAIL

Move to clear rail posts, move or bend reinforcing steel to clear.



(Abutments And Pier)



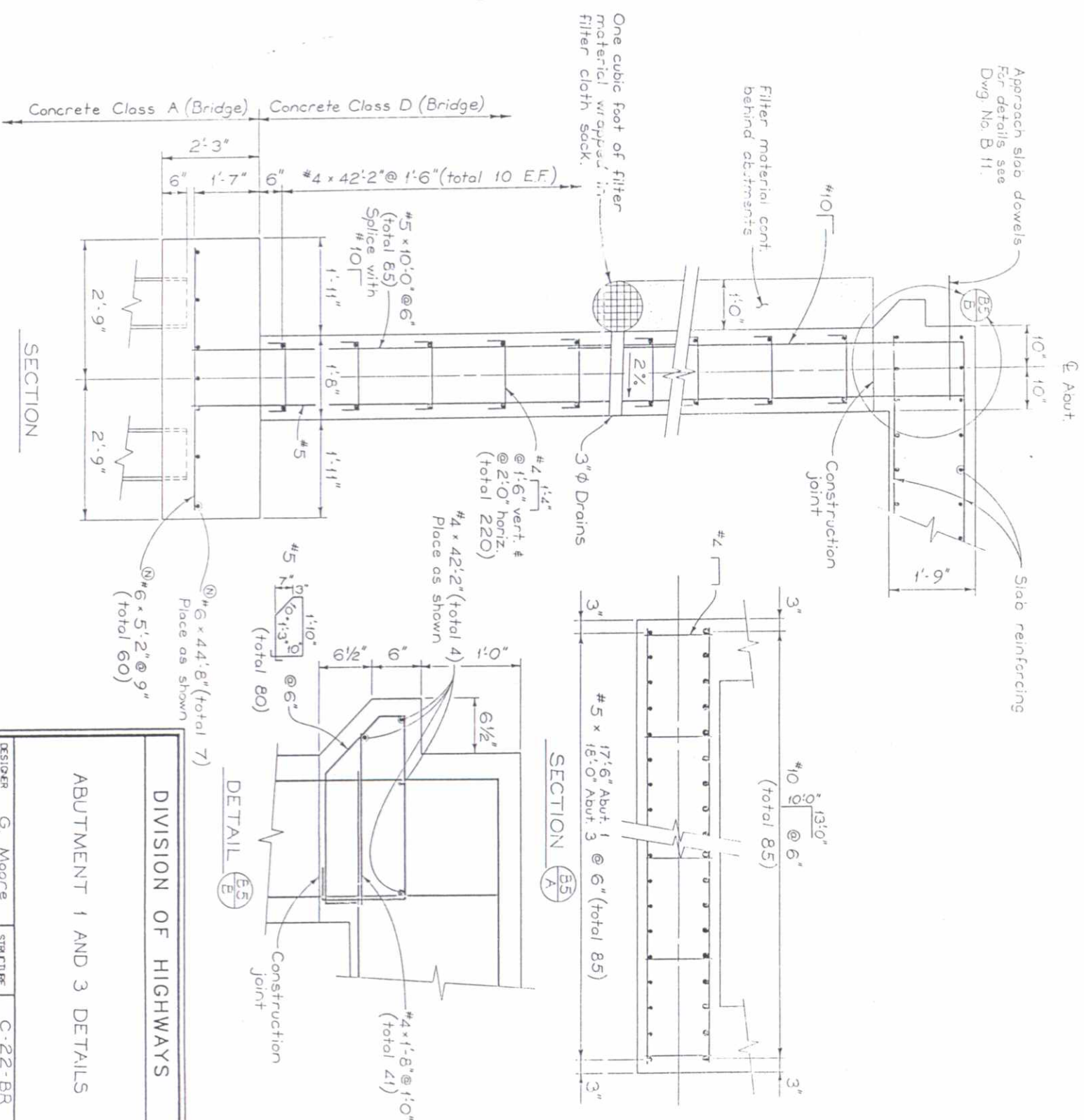
Abut. #1	4185.29
Ret. Wall - Abut #1	4186.00
PIER #2	4186.81
Abut. #3	4187.78
Ret. Wall - Abut #3	4188.58

FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLO.	BR5006 (14)	12	

REVIEWS				

CONSTRUCTION LAYOUT
PILING LAYOUT

DESIGNER	G. Moore	STRUCTURE	C-22-BR
DETAILER	G. Moore	NUMBER	
DRAWING NUMBER	B-4	OF	23
		DRAWINGS	
REVISION	DATE	PRELIMINARY STUDY ONLY	



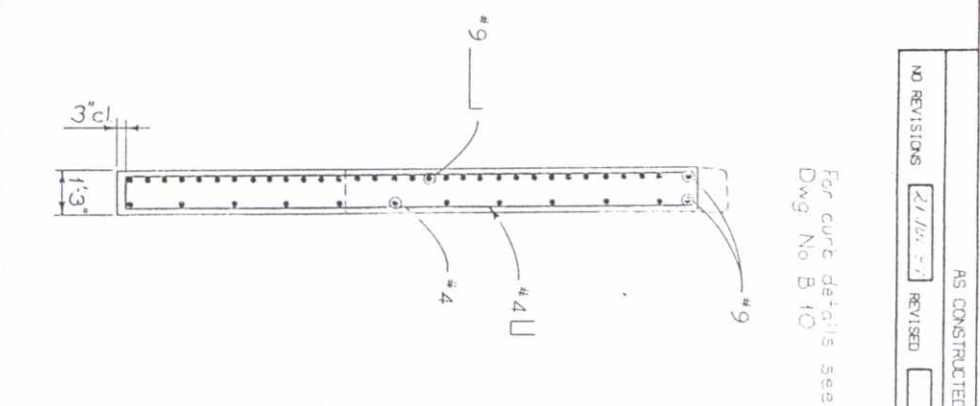
AS CONSTRUCTED	
NO REVISIONS	☐ 21 JUL 57 ☐ REVISED ☐ VOID

FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLO.	BRS 0006 (14)	1	

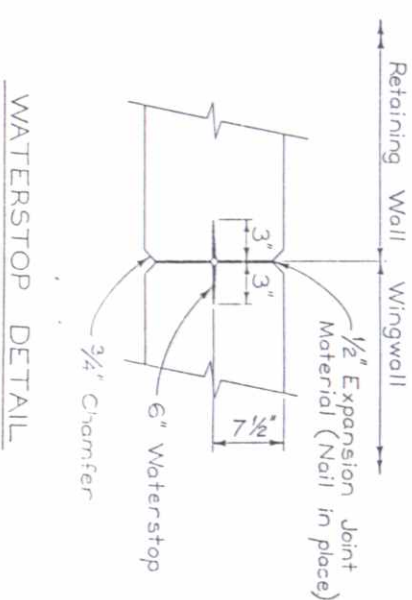
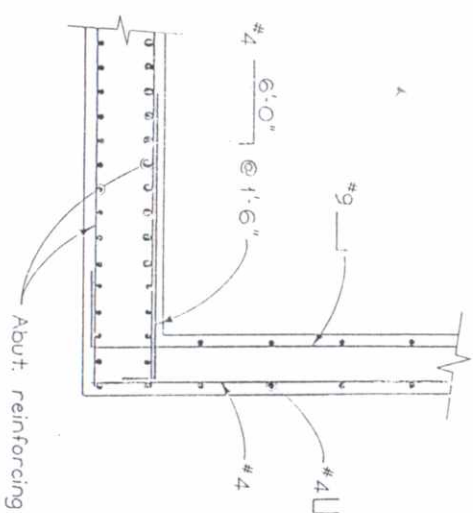
REVISED	

DIVISION OF HIGHWAYS			
ABUTMENT 1 AND 3 DETAILS			
DESIGNER	G. Moore	STRUCTURE	C-22-BR
DETAILER	R. DicKey	NUMBERS	
DRAWING NUMBER	B 5	OF	13
		DRAWINGS	

[illegible]



CORNER DETAIL



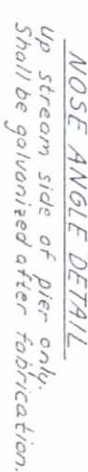
WATERSTOP DETAIL

SECTION B6
A

AS CONSTRUCTED	
NO REVISIONS	☒ 2/10/2017 ☐ REVISED ☐ VOID

FIELD NO.	DIVISION	SHEET NO.	TOTAL SHEETS
2311	COLO.	3F5.0006 (14)	14
REVISIONS			

DIVISION OF HIGHWAYS			
WINGWALL AND RETAINING WALL DETAILS			
DESIGNER	G. Moore	STRUCTURE NUMBERS	C-22-B _A
DETAILER	R. Dickey		
DRAWING NUMBER B 6		OF 13	DRAWINGS



AS CONSTRUCTED		FED. ROAD SECTION	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
NO REVISIONS	21 JUL 57 REVISED		VOID			
		VIII	COL. O.	BR 5006 (14)	15	

REVISIONS	

DIVISION OF HIGHWAYS	
PIER 2 DETAILS	
DESIGNER <i>G. MIOOPE</i>	STRUCTURE NUMBERS
DETAILER <i>G. MIOOPE</i>	<i>C-22-BR</i>
DRAWING NUMBER <i>B7</i>	OF <i>25</i> DRAWINGS

AS CONSTRUCTED	
NO REVISIONS	☒ 27 JUL 87 ☐ REVISED ☐ VOID

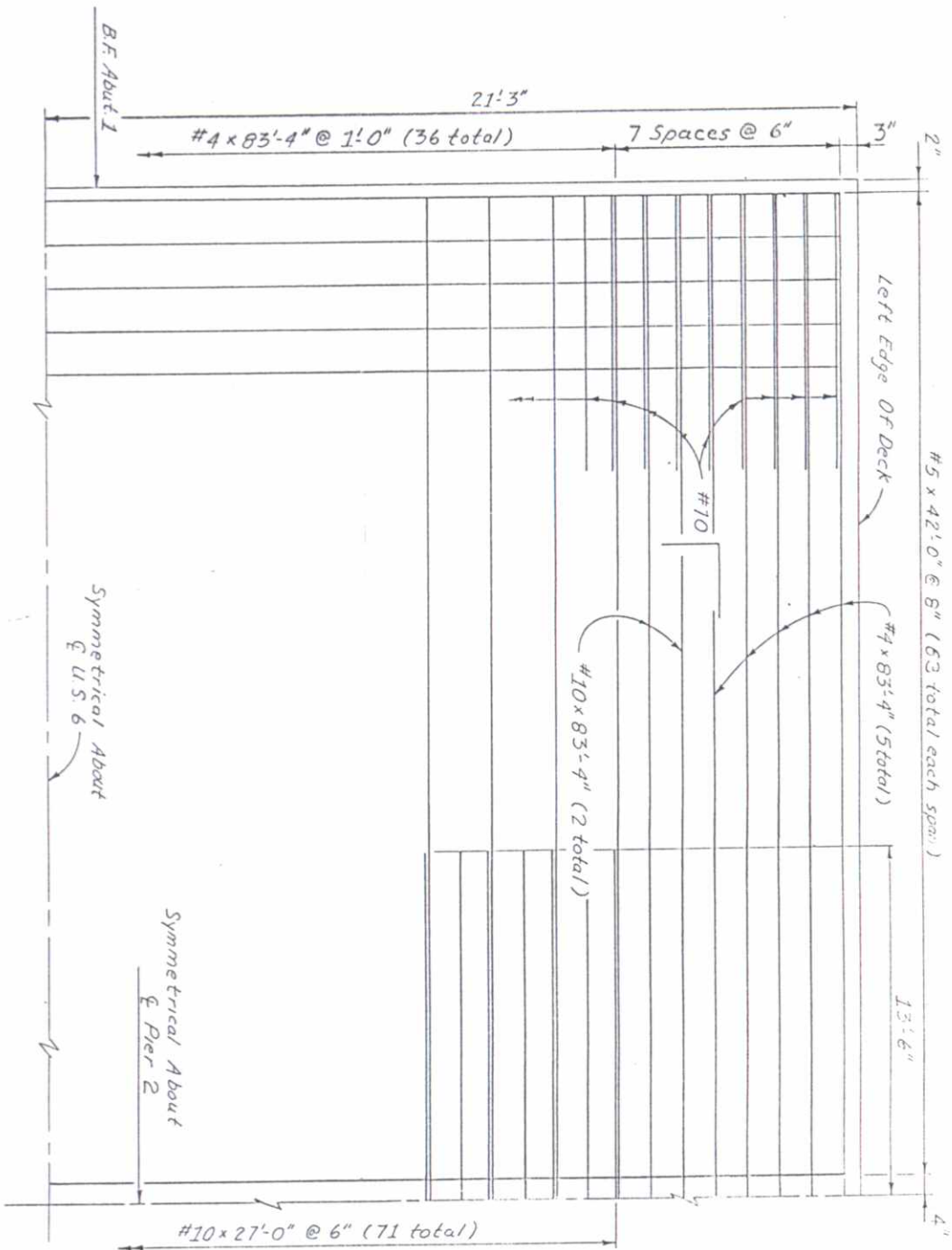
REVISIONS	



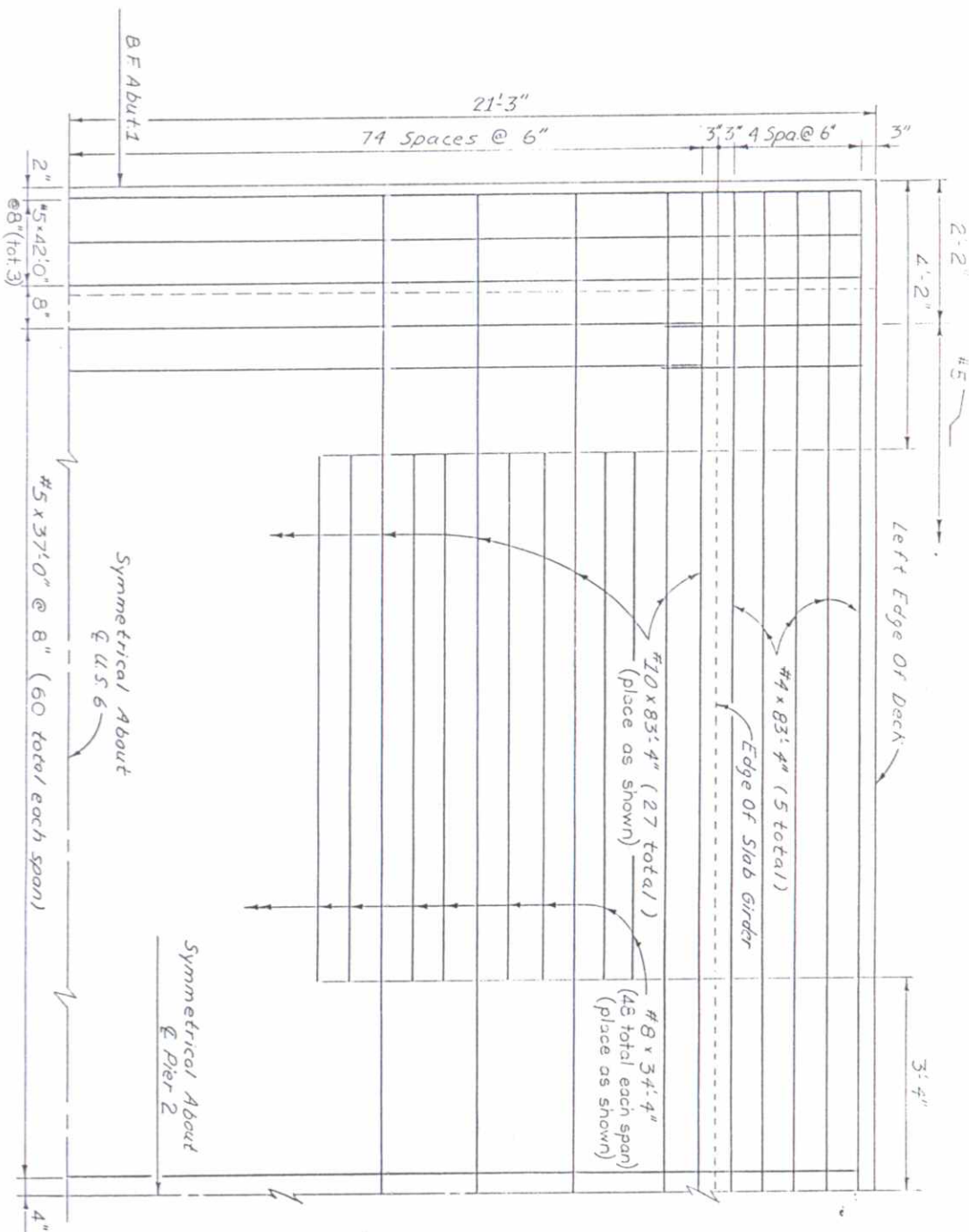
SUPERSTRUCTURE DETAILS

[illegible]

DESIGNED BY	INITIAL	DATE	CHECKED BY	INITIAL	DATE
CHECKED BY	DATE	QUANTITIES BY	DATE	CHECKED BY	DATE
DETAILED BY	DATE	CHECKED BY	DATE		



PARTIAL DECK PLAN TOP MAT



PARTIAL DECK PLAN BOTTOM MAT

AS CONSTRUCTED	FED. ROAD DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
NO REVISIONS	REVISED	VOID	17	

REVISIONS				

DIVISION OF HIGHWAYS				
SUPERSTRUCTURE DECK PLAN				
DESIGNER G. MOORE	STRUCTURE	C-22-BR		
DETAILER G. MOORE	NUMBERS			
DRAWING NUMBER B 9	OF 25	DRAWINGS		

REVIEWS

See Std. M-606-7

12

5

CONFORMANCE WITH THE SPECIFICATIONS

3E GALVANIZED

DED IN ITEM 606 -- BRIDGE RAIL TYPE 3

THAN 1500 FEET.

9

ALONG THE CENTRAL LINE OF POSTS

END OF WINGS AND EXPANSION JOINTS

SEE STD. M-606-1.

ING IS ALLOWED.

STANDARD SPECIFICATIONS.

STRUCTURAL STEEL:

GRADE B

DIVISION OF HIGHWAYS

BRIDGE RAIL TYPE 3

MOORE	C-22-BK
STRUCTURE	

85	8	85
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termini: section.)

side

LEVATION - BRIDGE RAIL

Guard Rail Type 3.

AND DETAIL -

XPN. DEVICE (W-BEAM)

SECTION 101



— — — — —

TUBE SPLICE

located together but staggered as shown.



BACKING TUBE @ EXP.N DEVICE

points as shown on the plans.

INFORMATION ONLY

of Structural Steel (Galvanized)

BK51D12

AS CONSTRUCTED		FED. ROAD DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
NO REVISIONS	21 JUL 67 REVISED	VOID			
		STATE	COL. O.	BRS 0006 (14)	19

BRIDGE STANDARD 104

Concrete for approach slab may be Class A.
1/2" Expansion Joint Material shall meet
AASHTO Spec. M213.



With Asphalt Roadway

BRSTD1 04

FEDERAL ROAD REGION NO	DIVISION	PROJ. NO.	SHEET NO	TOTAL SHEETS
VIII	COLORADO	BRS 0006 (14)	20	

BRIDGE STANDARD 2

	LONGITUDINAL LINE:	RIGHT EDGE OF CELL
END REF A1	1683-82.1567	21-3500
END REF A1	1683-82.1567	4250.7597
END REF A1	1683-83.1567	21-3500
END REF A1	1683-83.1567	4250.9071
END REF A1	1683-84.0000	21-3500
END REF A1	1683-84.0000	4250.9725
END REF A1	1683-84.0000	21-3500
END REF A1	1683-84.0000	4250.9700
END REF A1	1683-84.0000	21-3500
END REF A1	1683-84.0000	4251.0048

LONGITUDINAL LINE: C.L. 05 6

[illegible]

NOTE: ELEVATIONS ARE AT TOP
OF CONCRETE DECK 0.1667 FEET
BELOW FINISHED GRADE.

DIVISION OF HIGHWAYS

DIVISION OF HIGHWAYS

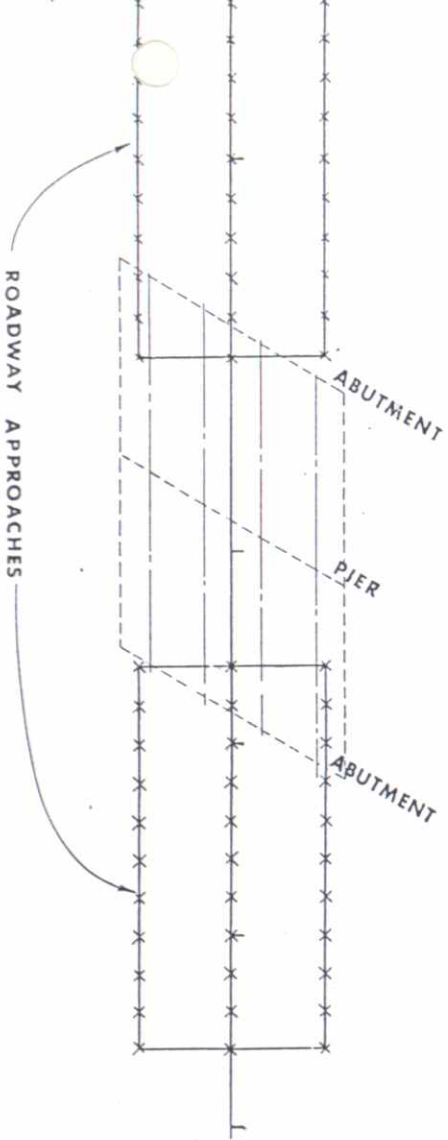
BRIDGE DECK ELEVATIONS

Revision Dates	(Preliminary Stage Only)
10-4-80	2

ROADWAY APPROACHES

ELEVATIONS ARE AT FINISHED GRADE

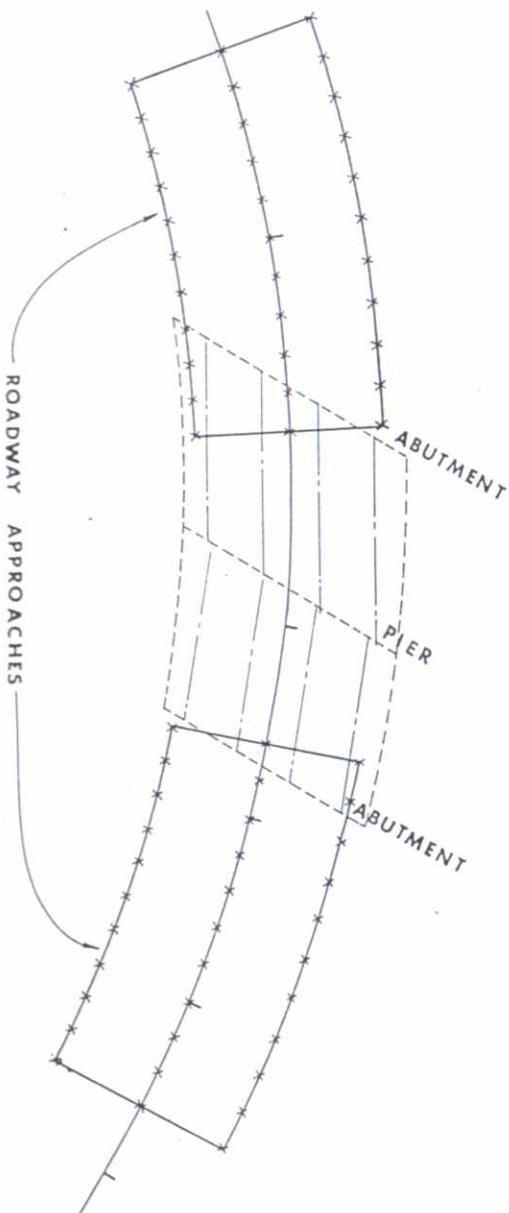
STATION	OFFSETS			
	-20.0000	-12.0000	0.0000	12.0000 20.0000
1681+60.0	4220.29	4220.45	4220.49	4220.45
+70.0	20.36	20.52	20.76	20.52
+80.0	20.42	20.58	20.82	20.42
+90.0	20.49	20.65	20.89	20.49
1682+00.0	4220.55	4220.71	4220.85	4220.55
+70.0	20.45	20.61	20.85	20.45
+80.0	20.51	20.67	20.91	20.51
+90.0	20.58	20.74	20.98	20.58
1682+40.0	4220.82	4220.98	4221.22	4220.82
+50.0	20.88	21.04	21.28	20.88
+60.0	20.95	21.11	21.35	20.95
+70.0	21.01	21.17	21.41	21.01
1682+80.0	4221.08	4221.24	4221.48	4221.08
+50.0	21.14	21.30	21.54	21.14
+60.0	21.21	21.37	21.61	21.21
1683+00.0	4221.57	4221.73	4221.97	4221.57
+10.0	21.57	21.73	21.97	21.57



* TANGENT ALIGNMENT

* THESE DRAWINGS ARE SCHEMATICS ONLY AND DO NOT NECESSARILY REFLECT THE ACTUAL BRIDGE LAYOUT.

STATION	OFFSETS			
	-20.0000	-12.0000	0.0000	12.0000 20.0000
1683+60.0	4221.50	4221.76	4222.00	4221.76
+70.0	21.57	21.83	22.07	21.83
+80.0	21.73	21.89	22.13	21.89
+90.0	21.80	21.96	22.20	21.96
1684+00.0	4221.86	4222.02	4222.26	4221.86
+10.0	21.93	22.09	22.33	21.93
+20.0	22.00	22.16	22.40	22.00
+30.0	22.06	22.22	22.46	22.06
1684+40.0	4222.12	4222.38	4222.64	4222.12
+50.0	22.19	22.35	22.59	22.19



* HORIZONTAL CURVE ALIGNMENT

AS CONSTRUCTED	
NO REVISIONS	21 JUL 87
REVISED	VOID

TOTAL ROAD	DIVISION	PROJ NO.	SHEET NO.	TOTAL SHEETS
XIII	COLORADO	BFS 0006 (14)	21	

REVISIONS	

BRIDGE STANDARD 1

DIVISION OF HIGHWAYS

ROADWAY APPROACHES

Designer	G. Moore	Structure Number	C-22-BR
Detailer	R. Dickey	Numbers	
Drawing Number	B	13 of 13	Drawings

Revision	Date	By	Initials	1
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BEARING FROM PROJ 280 AR3

UTILITIES: PUBLIC SERVICE ELECTRIC

1675

SW 1/4 SEC 30
T4N R55W

B.M. #7 421090
5 REBAR 50 LT 1677+65

1680+00 TO 1681+00 -
Req'd Approach
to Project

1680+00 REMOVE GROUND
516N

1680+22 24x12' CSP

STA 1681+00 BEGIN
PROJ. NO. BRS0006(14)
M.P. 372.124

B.M. #6 421191
5 REBAR 50 LT ABUT 1

"B" ALIGN

BEAVER

POT 0+74.23

B.M. #5 421531
5 REBAR 50 LT ABUT 1/4

1686+35 REMOVE
GROUND SIGN

12'x12' CSP

1687+00 TO
1688+00 -
Req'd Approach
to Project

B.M. #4 422575
5 REBAR 40 LT 1687+25

STA 1687+00 END
PROJ. NO. BRS0006(14)
M.P. 372.020

NW 1/4 SEC 31
T4N R55W

1680

1683+28 - Remove Existing
Timber Bridge

1683+35 - Req'd Bridge
STR NO. C-22-BR

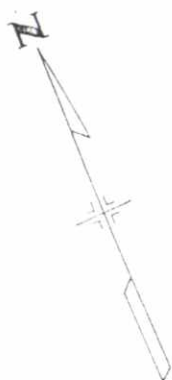
EXISTING STR C-22-I
13 SPAN TREATED TIMBER
TOTAL LENGTH 301'
29' CURB TO CURB
1936

STA 1683+00 MAINLINE =
0+00 ALIGN "A"
0+00 ALIGN "B"

POT 0+79.02

1685 1685+30 REMOVE
EXISTING 16x20 CSP

1685+74 REQ'D
FIELD APPROACH AND
18'x34' CULVERT PIPE
WITH END SECTIONS



168 ~ 14' BW GATE

1690

AS CONSTRUCTED	
NO REVISIONS	21 JUL 87
REVISION	
VOID	
SECTION NAME	
DIVISION	
CONTRACT	
BRS0006 (14)	
SHEET	
22	
TOTAL SHEETS	