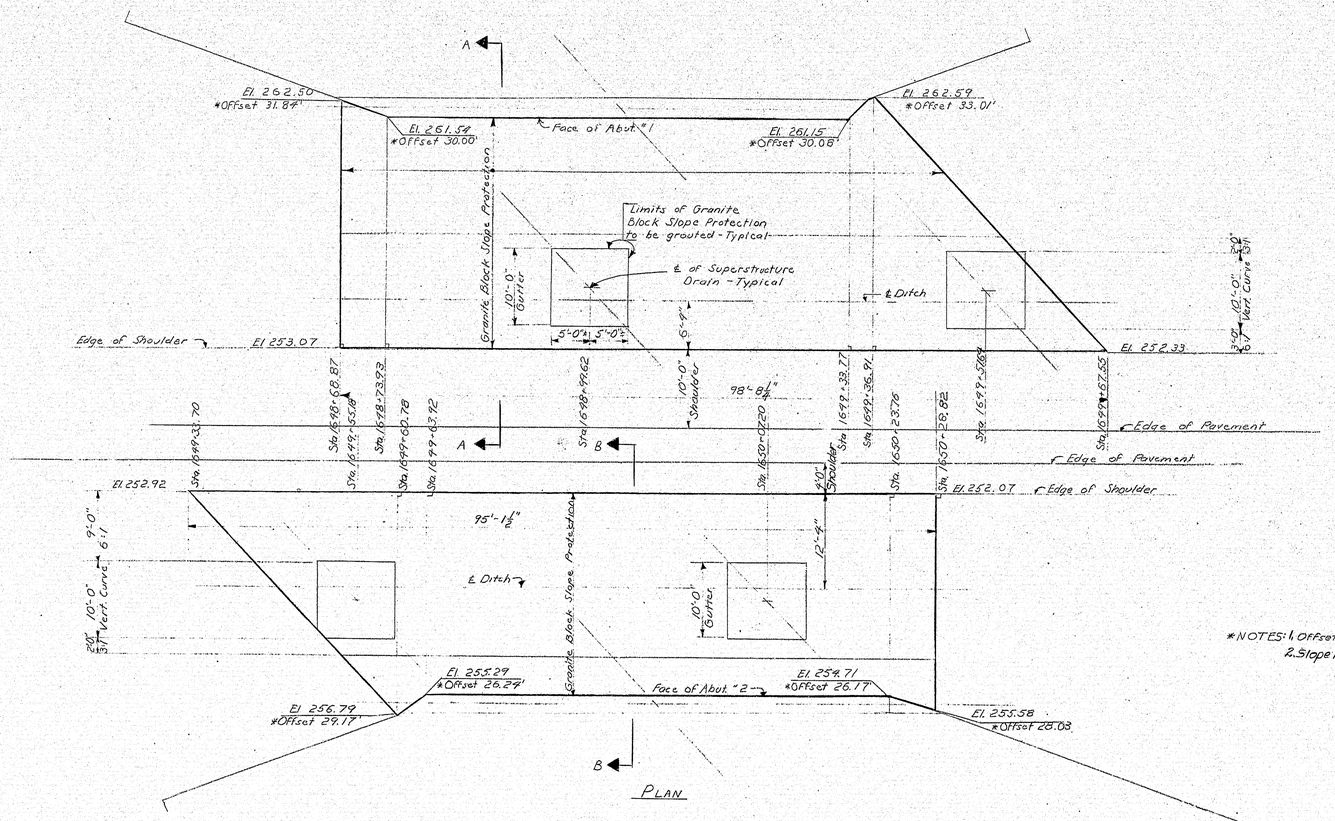
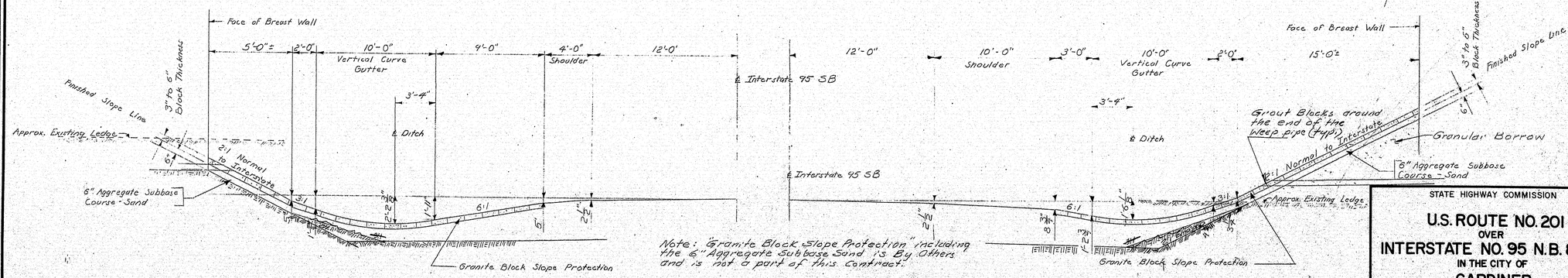
R. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I 95-5(6)34	29	55



PLAN

*NOTES: 1. Offsets are from Edge of Shoulder.
2. Slope Protection to be by Others.



SECTION B-B

Note: "Granite Block Slope Protection" including the 6" Aggregate Subbase Sand is By Others and is not a part of this Contract.

SECTION A-A

ORIGINAL SHEET USED IN I-95-5(26) PAVING PROJECT

PLANS	DESIGN DETAILED	BY	DATE
	CHECKED	CE WC	9-71
	REVISIONS	EDC	
	FIELD CHANGES	WCE	3/6/72

STATE HIGHWAY COMMISSION

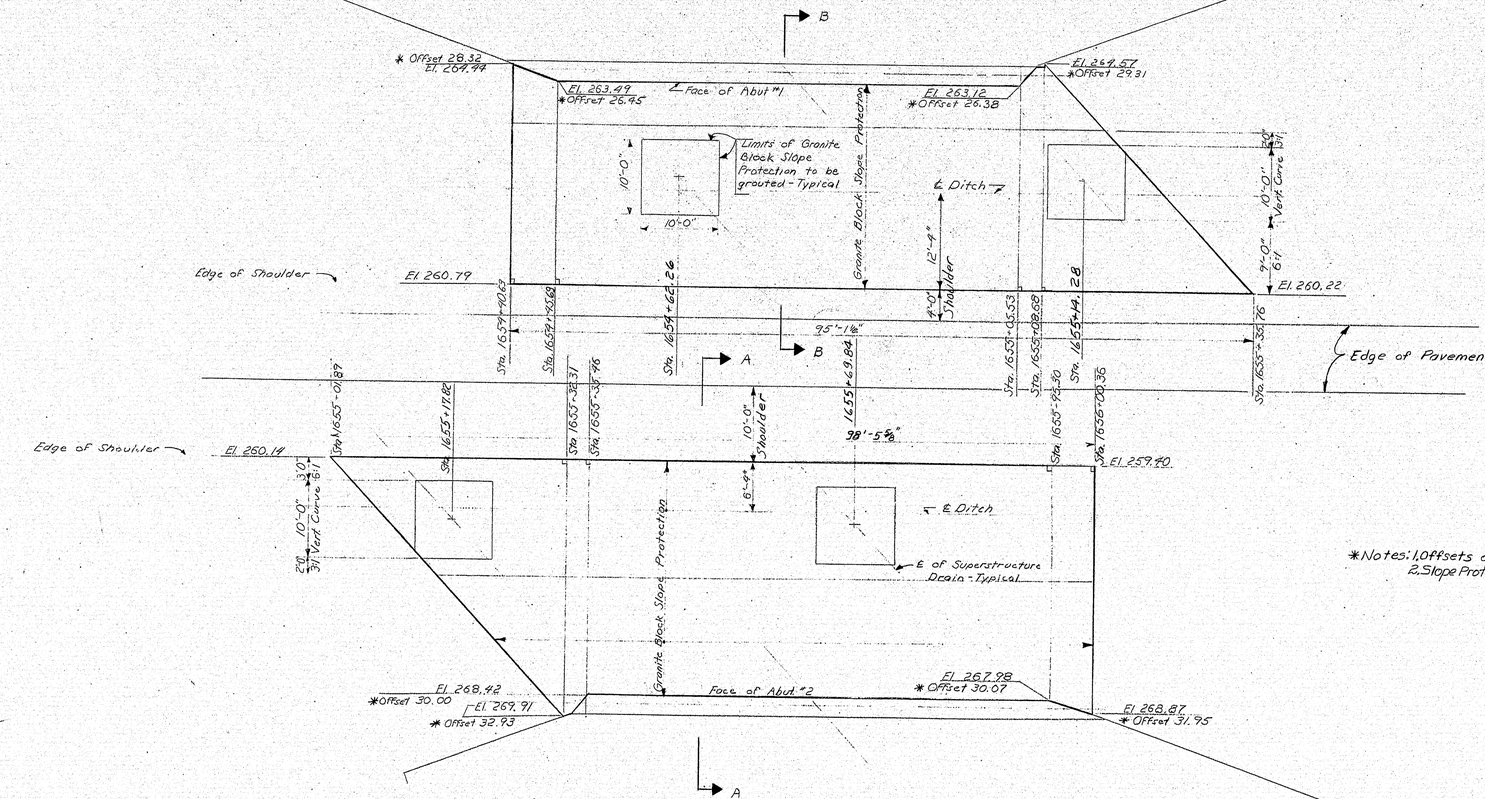
U.S. ROUTE NO. 201
OVER
INTERSTATE NO. 95 N.B. & S.B.
IN THE CITY OF
GARDINER
KENNEBEC COUNTY
SLOPE PROTECTION BR. NO. 1

SHEET 29 OF 55 AUGUSTA, MAINE APRIL 1971

152-60

touraine paints TRUFLEX ☆ SILKY ☆ TRIPLE WHITE ☆ RYPLEX

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I 95 3(6)94	30	55



Note: Granite Block Slope Protection including the 6" Aggregate Subbase Course Sand is By Others and is not a part of this contract.

*Notes: 1. Offsets are from edge of shoulder.
2. Slope Protection to be by Others.

PLANS	DESIGN - DETAILED	BY	DATE
	CHECKED		
	REVISIONS		
	FIELD CHANGES		

STATE HIGHWAY COMMISSION

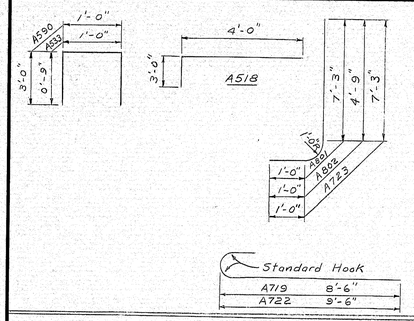
U.S. ROUTE NO. 201
OVER
INTERSTATE NO. 95 N.B. & S.B.
IN THE CITY OF
GARDINER
KENNEBEC COUNTY
SLOPE PROTECTION BR. NO. 2
SHEET 30 OF 55 AUGUSTA, MAINE APRIL 1971

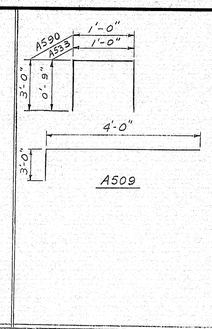
ORIGINAL SHEET USED ON E-RS-3(26) PAVING PROJECT

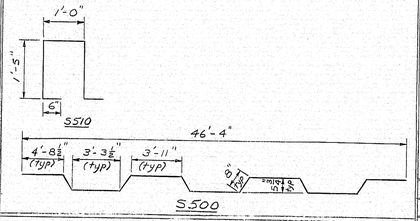
152-61

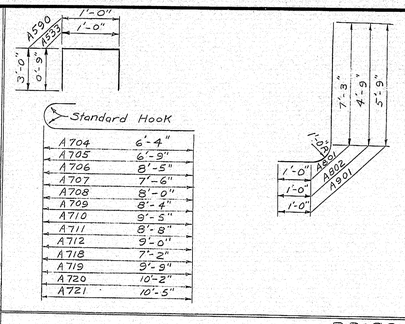
touraine paints TRUFLEX ☆ SILKY ☆ TRIPLE WHITE ☆ RYPLEX

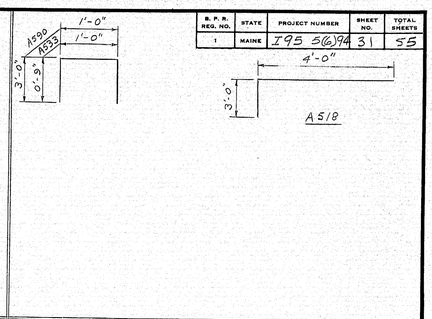
NOTE: ALL BAR DIMENSIONS ARE OUT TO OUT











R. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I95 516(94)	31	55

BRIDGE NO. 1

ABUTMENT NO. 1

Bent Bars

Mark	Size	No.	Length	Location
A518	5	48	7'-0"	Breastwall, Top
A533	5	24	2'-6"	Under Bearing Pedestals
A590	5	8	7'-0"	Top of Backwall
A719	7	118	9'-3"	Bottom Footing
A722	7	63	10'-3"	Bottom Wing Footing
A723	7	77	9'-10"	Footing to Breastwall
A801	8	29	9'-10"	Footing to Breastwall
A802	8	16	7'-4"	Footing to Breastwall
Straight Bars				
A505	5	8	20'-0"	Breastwall (F F)
A516	5	120	5'-0"	Breastwall, Backwall, Wingwall-Dowels
A526	5	8	21'-6"	Breastwall
A534	5	96	6'-3"	Backwall
A535	5	26	21'-9"	Backwall & Breastwall
A536	5	8	25'-9"	Breastwall (N F)
A537	5	8	25'-6"	Breastwall (F F)
A538	5	1	21'-11"	Bridge Seat (N F)
A539	5	1	25'-7"	Bridge Seat
A540	5	48	10'-8"	Breastwall (N F)
A541	5	1	19'-9"	Bridge Seat (F F)
A542	5	1	19'-5"	Bridge Seat (N F)
A543	5	5	20'-0"	Backwall (F F)
A544	5	2	28'-3"	Top of Wing Wall
A545	5	2	5'-9"	Wing Wall
A546	5	2	11'-0"	Wing Wall
A547	5	16	12'-0"	Wing Wall (N F)
A548	5	2	22'-3"	Wing Wall
A549	5	10	27'-6"	Wing Wall
A550	5	6	23'-0"	Wing Wall
A551	5	16	5'-6"	Wing Wall, top (N F)
A552	5	16	10'-0"	Wing Wall, top (F F)
A553	5	5	25'-3"	Backwall (F F)
A554	5	5	25'-6"	Backwall (N F)
A555	5	5	19'-10"	Backwall (N F)
A556	5	2	7'-10"	Wing Wall
A557	5	2	7'-6"	Wing Wall
A558	5	2	7'-0"	Wing Wall
A559	5	2	16'-6"	Wing Wall (E F)
A591	5	4	4'-6"	Backwall, Top
A601	6	40	6'-6"	Haunch
A612	6	39	3'-6"	Approach Slab
A613	6	79	8'-6"	Footing, Top
A615	6	20	34'0"	Wing Wall, footing
A617	6	1	4'-0"	Footing
A618	6	1	8'-0"	Footing
A624	6	36	32'-0"	Footing
A702	7	16	10'-0"	Wing Wall (F F)
A714	7	1	8'-0"	Footing, Bottom
A720	7	42	9'-6"	Footing, Top
A721	7	1	4'-0"	Footing, Bottom
A718	7	48	9'-2"	Breastwall (F F)

ABUTMENT NO. 2

Bent Bars

Mark	Size	No.	Length	Location
A509	5	41	7'-0"	Breastwall
A533	5	24	2'-6"	Under Bearing Pedestals
A590	5	8	7'-0"	Backwall
Straight Bars				
A501	5	92	6'-9"	Backwall
A502	5	46	3'-8"	Backwall & Breastwall
A503	5	46	7'-10"	Breastwall
A504	5	10	25'-3"	Backwall
A505	5	7	25'-6"	Breastwall
A506	5	17	21'-9"	Backwall
A507	5	10	20'-4"	Backwall
A508	5	7	21'-6"	Breastwall
A591	5	4	7'-0"	Backwall
A612	6	39	3'-6"	Approach Slab Seat
A690	6	4	18'-0"	Wing Wall

SUPERSTRUCTURE

Bent Bars

Mark	Size	No.	Length	Location
S500	5	184	48'-2½"	Slab
S510	5	540	4'-10"	Curb
Straight Bars				
S300	3	540	29'-9"	Wearing Surface
S301	3	344	30'-0"	Wearing Surface
S302	3	86	20'-0"	Wearing Surface
*S401	4	64	57'-10"	Approach Slab
S501	5	364	46'-4"	Slab
S505	5	728	30'-0"	Slab
S506	5	182	22'-3"	Slab
S511	5	72	19'-8"	Curb
S513	5	24	44'-9"	Slab
S514	5	16	43'-6"	Slab
S515	5	16	42'-6"	Slab
S516	5	16	41'-6"	Slab
S517	5	16	40'-3"	Slab
S518	5	16	39'-3"	Slab
S519	5	16	38'-3"	Slab
S520	5	16	37'-0"	Slab
S521	5	16	36'-0"	Slab
S522	5	16	35'-0"	Slab
S523	5	16	33'-9"	Slab
S524	5	16	32'-9"	Slab
S525	5	16	31'-9"	Slab
S526	5	16	30'-6"	Slab
S527	5	16	29'-6"	Slab
S528	5	16	28'-6"	Slab
S529	5	16	27'-3"	Slab
S530	5	18	26'-3"	Slab
S531	5	16	25'-3"	Slab
S532	5	16	24'-0"	Slab
S533	5	16	23'-0"	Slab
S534	5	16	22'-0"	Slab
S535	5	16	20'-9"	Slab
S536	5	16	19'-9"	Slab
S537	5	16	18'-9"	Slab
S538	5	16	17'-6"	Slab
S539	5	16	16'-6"	Slab
S540	5	16	15'-6"	Slab
S541	5	16	14'-3"	Slab
S542	5	16	13'-3"	Slab
S543	5	16	12'-3"	Slab
S544	5	16	11'-0"	Slab
S545	5	16	10'-0"	Slab
S546	5	16	9'-0"	Slab
S547	5	16	7'-9"	Slab
S548	5	16	6'-9"	Slab
S549	5	16	5'-9"	Slab
S550	5	16	4'-6"	Slab
S551	5	16	3'-6"	Slab
S552	5	16	2'-6"	Slab
S553	5	32	2'-0"	Slab
*S613	6	680	14'-6"	Approach Slab

*= By Others

BRIDGE NO. 2

ABUTMENT NO. 2

Bent Bars

Mark	Size	No.	Length	Location
A533	5	24	2'-6"	Under Bearing Seats
A590	5	8	7'-0"	Backwall
A704	7	6	7'-2"	Footing
A705	7	6	7'-7"	Footing
A706	7	49	9'-3"	Footing
A707	7	6	8'-4"	Footing
A708	7	6	8'-10"	Footing
A709	7	6	9'-2"	Footing
A710	7	118	10'-3"	Footing
A711	7	6	9'-6"	Footing
A712	7	6	9'-10"	Footing
A718	7	6	8'-0"	Footings
A719	7	6	10'-7"	Footings
A720	7	6	11'-0"	Footings
A721	7	31	11'-3"	Footings
A801	8	114	9'-10"	Wing Walls (F F) Breastwall
A802	8	24	7'-4"	Wing Walls
A901	9	29	8'-4"	Left Wing Wall
Straight Bars				
A501	5	15	12'-3"	Left Wing Wall
A502	5	2	8'-3"	Right Wing Wall
A503	5	95	13'-6"	Wing Walls & Bridge Seat
A504	5	87	3'-10"	Footing Dowels
A505	5	10	20'-0"	Backwall (F F)
A506	5	2	6'-3"	Top Left Wing Wall
A507	5	10	20'-0"	Top Backwall
A508	5	18	9'-0"	Left & Right Wing Wall (F F)
A509	5	12	6'-6"	Left Wing Wall
A510	5	2	16'-0"	Right Wing Wall
A511	5	10	22'-6"	Left Wing Wall, top
A512	5	54	6'-9"	Wing Walls & Backwall (F F)
A513	5	2	17'-0"	Wing Walls
A514	5	2	5'-4"	Left Wing Wall
A515	5	2	5'-0"	Left Wing Wall
A516	5	56	4'-6"	Backwall (N F)
A517	5	50	6'-9"	Backwall (N F) & Wing
A518	5	48	7'-0"	Backwall (N F)
A519	5	21	25'-6"	Breastwall (F F)
A520	5	12	25'-9"	Breastwall (N F)
A521	5	34	21'-9"	Breastwall (E F) & Backwall (E F)
A522	5	38	21'-6"	Breastwall (N F) & Left Wing
A523	5	2	10'-0"	Top Right Wing Wall
A524	5	14	17'-6"	Left Wing Wall, Bottom
A525	5	12	22'-6"	Right Wing Wall
A526	5	2	19'-6"	Right Wing Wall
A527	5	2	13'-0"	Right Wing Wall
A528	5	2	4'-0"	Right Wing Wall
A529	5	21	10'-4"	Wing Walls (N F)
A530	5	6	5'-7"	Right Wing Wall (N F)
A531	5	2	25'-0"	Right Wing Wall, Top
A532	5	2	9'-0"	Right Wing Wall
A591	5	4	4'-6"	Backwall
A601	6	40	6'-6"	Haunch
A602	6	75	9'-6"	Footing

ABUTMENT NO. 1

Bent Bars

Mark	Size	No.	Length	Location
A518	5	41	7'-0"	Breastwall
A533	5	24	2'-6"	Under Bearing Seat
A590	5	8	7'-0"	Backwall
Straight Bars				
A504	5	46	3'-9"	Breastwall & Back wall
A505	5	17	21'-9"	Backwall
A509	5	30	6'-0"	Backwall
A517	5	62	6'-3"	Backwall
A548	5	12	25'-3"	Left Backwall
A556	5	46	7'-10"	Breastwall
A557	5	5	24'-6"	Left Breastwall
A558	5	12	20'-2"	Right Backwall
A559	5	5	21'-3"	Right Breastwall
A591	5	4	4'-6"	Backwall
A612	6	39	3'-6"	Approach Slab Seat
A690	6	2	18'-0"	Wing Wall

ABUTMENT NO. 2 - Continued

Mark	Size	No.	Length	Location
A603	6	14	53'-0"	Footing
A604	6	2	51'-0"	Footing
A605	6	2	42'-8"	Footing
A606	6	2	34'-5"	Footing
A607	6	2	26'-2"	Footing
A609	6	20	54'-0"	Footing
A610	6	18	26'-0"	Footing
A611	6	33	8'-6"	Footing
A612	6	39	3'-6"	Approach Slab Seat
A701	7	29	12'-0"	Left Wing Wall
A702	7	24	10'-0"	Wing Walls
A703	7	92	11'-0"	Breast Wall (F F)
A713	7	4	6'-6"	Footing
A714	7	4	6'-10"	Footing
A715	7	4	7'-3"	Footing
A716	7	4	7'-7"	Footing
A717	7	4	8'-0"	Footing
A803	8	4	8'-4"	Footing
A804	8	4	8'-9"	Footing
A805	8	4	9'-1"	Footing
A806	8	4	9'-6"	Footing
A807	8	4	9'-10"	Footings
A808	8	4	10'-3"	Footings
A809	8	21	10'-6"	Footings

Note: Reinforcing Steel shall conform to ASTM A615 (Gr 60)

STATE HIGHWAY COMMISSION

U.S. ROUTE NO. 201
OVER
INTERSTATE NO. 95 N.B. & S.B.
IN THE CITY OF
GARDINER
KENNEBEC COUNTY
REINFORCING STEEL
SHEET 31 OF 55 AUGUSTA, MAINE

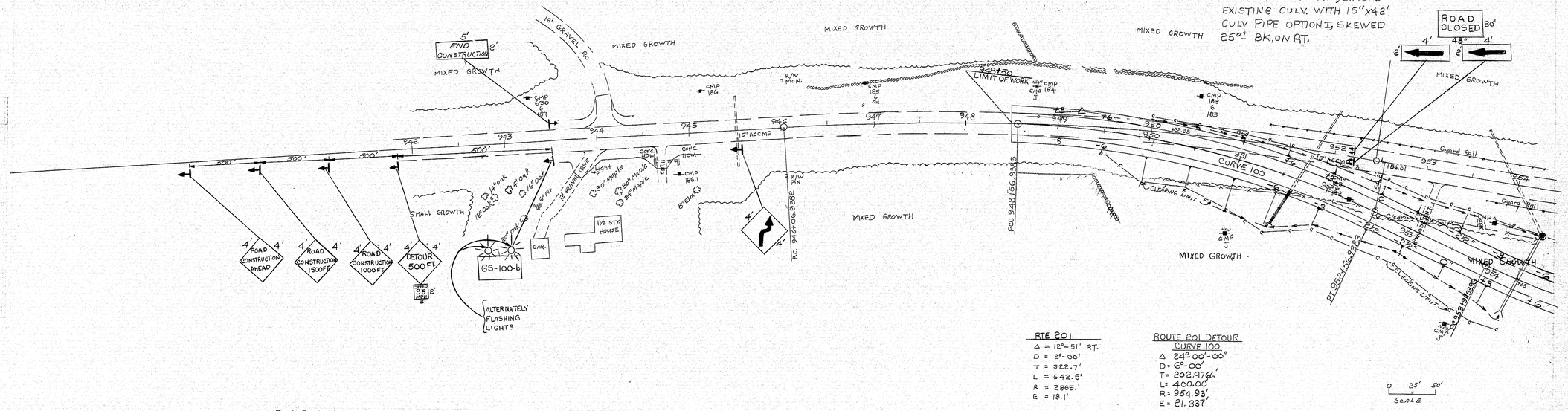
152-62

PLANS	BY	DATE
Design Data Req. Met.		
DESIGN - DETAILED	DEW	3 Dec 74
CHECKED	EBC	
REVISIONS		
A. Bauer	MJE	3 Feb 75
FIELD CHANGES		

JANUARY 1969

touraine paints TRUFLEX ☆ SILKY ☆ TRIPLE WHITE ☆ RYPLEX

F. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95 5(6)94 32	55	



RTE 201
- Δ = 12°-51' RT.
- D = 2°-00'
- T = 322.7'
- L = 642.5'
- R = 2865.'
- E = 18.1'

ROUTE 201 DETOUR
CURVE 100
- Δ = 24°00'-00"
- D = 6°-00'
- T = 202.9766'
- L = 400.00'
- R = 954.93'
- E = 21.337'

GENERAL NOTES

① UTILITY
THE UTILITIES INVOLVED IN THIS CONTRACT ARE:
CENTRAL MAINE POWER CO.
NEW ENGLAND TELEPHONE AND TELEGRAPH

② UTILITY ADJUSTMENT
ALL UTILITIES ARE TO BE ADJUSTED BY THE RESPECTIVE UTILITIES.

③ CLEARING
CLEARING LIMITS ARE AS SHOWN ON THE PLANS. THE QUANTITY OF CLEARING FOR PAYMENT SHALL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.

④ PRESPLITING ROCK
THE AREAS TO BE PRESPLIT ARE AS FOLLOWS:
NB STA 1653+00 TO STA 1656+25 LT.
NB STA 1653+00 TO STA 1657+00 RT.
SB STA 1647+50 TO STA 1650+50 LT.
SB STA 1647+50 TO STA 1651+25 RT.
NOTE: SEE NOTE SHEET NO. 12 INVOLVING LEDGE IN THE AREAS OF THE STRUCTURES.

⑤ EXCAVATION LIMITS NB, AND SB.
THE AREAS TO BE EXCAVATED ARE AS FOLLOWS:
NB STA 1653+50 TO STA 1656+00 LT.
NB STA 1654+00 TO STA 1656+75 RT.
SB STA 1648+00 TO STA 1650+25 LT.
SB STA 1648+50 TO STA 1651+00 RT.
THE AREAS THAT ARE NOT TO BE EXCAVATED ARE CROSS HATCHED ON THE PLAN SHEETS.

⑥ COMMON BORROW
COMMON BORROW HAS BEEN ESTIMATED TO COMPLETE THE 201 DETOUR IN THE EVENT THAT THE EXCAVATION GENERATED IS NOT SUFFICIENT TO COMPLETE THE DETOUR.

⑦ SEEDING
ALL SEEDING ON THIS PROJECT SHALL BE SEEDING METHOD NO. 2 WITH HAY MULCH. NO LOAM WILL BE USED ON THE PROJECT. THE THREE INCH GROWTH REQUIREMENT IS WAIVED ON THIS PROJECT.

⑧ LOAM
NO LOAM REQUIRED ON THIS PROJECT.

⑨ EROISION CONTROL MESH, SODDING
ALL EROSION CONTROL MESH AND SODDING WILL BE PLACED WITHOUT LOAM. THE AREAS REQUIRING THE ABOVE WILL BE HAND RAKED TO LOSEN THE EXISTING GROUND PRIOR TO INSTALLATION. 270

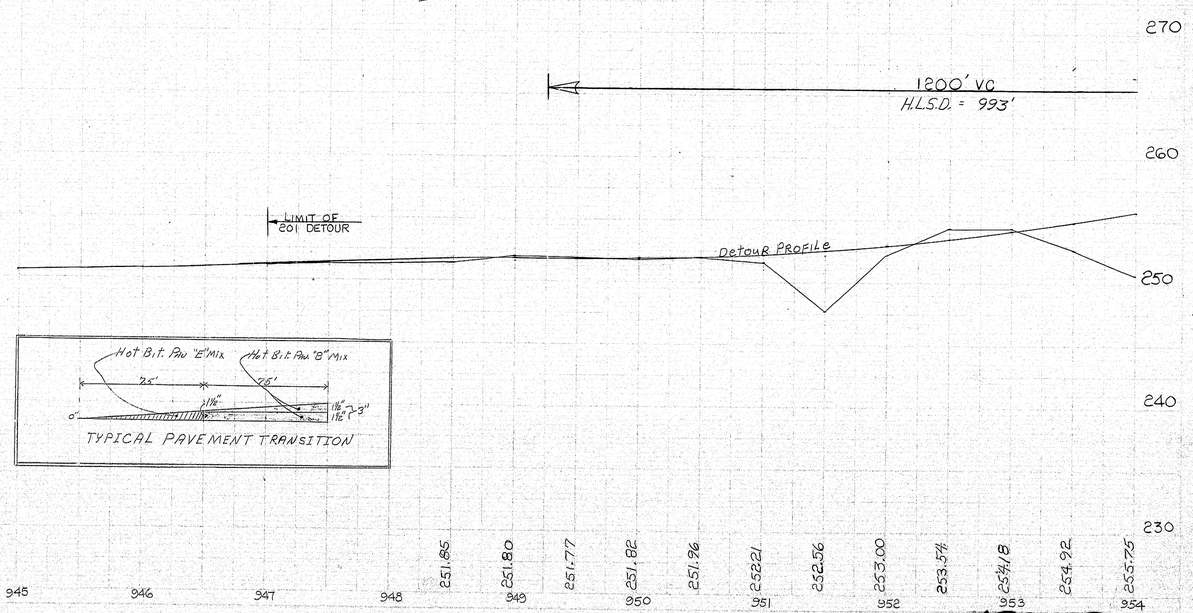
⑩ SURPLUS EARTH EXCAVATION
ALL SUITABLE EARTH EXCAV. IN ACCESS OF THAT REQUIRED TO CONSTRUCT THE ROUTE 201 DETOUR WILL BE PLACED WITHIN THE LIMITS OF EXISTING ROUTE 201. EXCEPT THE AREAS REQUIRING GRANULAR BORROW AT THE ABUTMENTS. 260
THE SURPLUS EARTH EXCAVATION SHALL BE PLACED UNIFORMALLY AND GRADED TO DRAIN AS DIRECTED BY THE RESIDENT ENGINEER.

⑪ SURPLUS ROCK EXCAVATION
SEE NOTE: ROCK EXCAVATION SHEET NO. 4

⑫ RESERVED AREA ACCESS
THE CONTRACTOR WILL PROVIDE SUITABLE ACCESS TO THE RESERVED AREA SHOWN ON THE PLANS, STA 955+00± TO STA 956+50± LEFT OF ROUTE 201. 250
THE ACCESS SHALL BE MAINTAINED UNTILL NO LATER THAN JULY 1ST 1972.

⑬ EXISTING PICNIC HARDWARE
ALL EXISTING HARDWARE IN THE EXISTING 201 PICNIC AREA SHALL BE REMOVED BY OTHERS. 240

230



As Built Plans 3/6/74 WCS

152-63

NO. OF SH. INCL. THIS	STATE	FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-5(6)94	33	55

STA 954+25 INSTALL 30"x 98'
CULV. PIPE OPTION I
STA 954+25 54' LT
INSTALL TYPE B-1 C.B.

STA. 956+56.67 RTE. 201 =
STA. 1649+53.41 S.B.

RESERVED LIMIT

RESERVED TO THE OWNER UNTIL JULY 1ST 1972

STA 952+50 RTE 201
STA 22+53.36 RAMP "A"

STA 952+75 RTE 201
STA 0+00 RAMP "B"

MIXED GROWTH

1 STY LOG CABIN

OLD SHED

RESERVED LIMIT LINE

CLEARING LIMIT

47°-07'-49"

RAMP "B"

CMP 180

COND. HOUSE

COND. MANH.

Guard Rail

952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968

+84.01 +83.02 +97.82 +49.44 +06.21 +79.58

15" ACCMP 30" ACCMP 18" ACCMP

CMP 180 CMP 178 CMP 176 CMP 174 CMP 173 CMP 172

CLEARING LIMIT

CURVE 200

CURVE 300

CURVE 400

16"

-2½" -2½" -2½"

PT 962+56.93
PT 962+39.93

RAMP "A"

LIMIT OF WORK
STA 1647+40

BEGIN PROJECT
I-95-5(6)94
STA 1654+00 NB

LIMIT OF WORK
STA 1652+90

STA. 959+71.47 RTE. 201 =
STA. 1655+16.05 N.B.

STA 958+00 INSTALL 15"x 128'
CULV. PIPE OPTION I
SKEWED 47° BK ON THE LT. ±

END PROJECT
I-95-5(6)
1656+00

LIMIT OF WORK
STA 1651+35

LIMIT OF WORK
STA 1657+00

12' WORK ROAD

REMOVE EXISTING GUARD RAIL

N 51°-06'-06.3" E

PC 960+76.89

RAMP "C"

RAMP "D"

PT 963+21.89

BEGIN TRUCK LANE TAPER TO TRUCK LANE

STA 964+50 RTE 201
STA 16+82.51 RAMP "D"

PC 965+06.68

PT 967+27.68
RTE 201 967+30.74

STA 965+30± INSTALL
30" DIA. TYPE E C.B.
65'-6" RT.

STA 965+30± EXTEND
EXISTING 18" ACCMP TO
C.B. TYPE E 30" DIA WITH
40'± CULV. PIPE OPTION I

OVERSIZED PORTABLE BARRICADES
WITH FLASHING LIGHTS

ROAD CLOSED 30" 48" 4' 4'

STA 964+50 RTE 201
STA 0+00 RAMP "C"

INSTALL GUARD RAIL TYPE 3b
STA 966+25 TO 968+50 LT

INSTALL GUARD RAIL END TRANSITION
STA 965+50.03 TO 966+25 LT

4' 4'

MIXED GROWTH

ROUTE 201 DETOUR
CURVE 200
Δ= ~~12°-00'-00"~~ 16°-13'-11.4"
D= 6°-00'
T= ~~100.37'~~ 136.07'
L= ~~200.00~~ 270.33'
R= 954.93
E = ~~5.26'~~

ROUTE 201 DETOUR
CURVE 300
Δ= 16°-30'-00"
D= 6°-00'
T= 138.458'
L= 275.00'
R= 954.93'
E= 9.98'

ROUTE 201 DETOUR
CURVE 400
Δ= 16°-30'-00"
D= 6°-00'
T= 138.458'
L= 275.00'
R= 954.93'
E= 9.98'

0 25' 50'
SCALE

PLAN
SURVEYED
PLOTTED
TAPE BOOK
NOTE BOOK
NO.
DRAWN
TRACED
DESIGNED
QTY. OF WIRE CHECKED

DATE BY

1200' V.C.

EXT. 7.0741'
HLSD. 993'

DETOUR PROFILE

0.00%

+4.62%

APPROX. SOUTH BOUND SUBGRADE 251.20

APPROX. NORTH BOUND SUBGRADE 258.85

280 270 260 250 240

253.00 253.54 254.18 254.92 255.75 256.69 257.72 260.08 261.41 262.83 264.36 265.98 267.70 269.52 271.44 273.45 275.56 272.78 280.07 282.38 284.69 287.20 289.31 291.62 293.93 296.24 298.55 300.86 303.17 305.48 307.79 +72.25 308.82

952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967

LIMIT OF 201 DETOUR

DETOUR PROFILE

+4.62%

280 270 260 250 240

310 300 290 280 270

A. Baer Plans 11/68

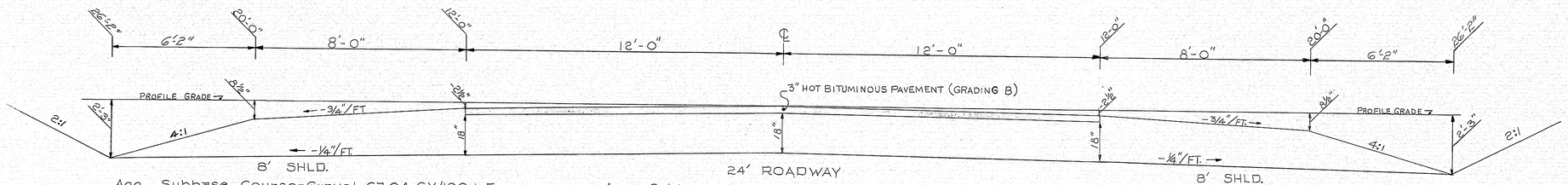
PROFILE
SURVEYED
PLOTTED
TAPE BOOK
NOTE BOOK
NO.
DRAWN
TRACED
DESIGNED
QTY. OF WIRE CHECKED

DATE BY

152-64

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	195 S(6)92	34-	55

3" HOT BITUMINOUS PAVEMENT
ROUTE 201 DETOUR

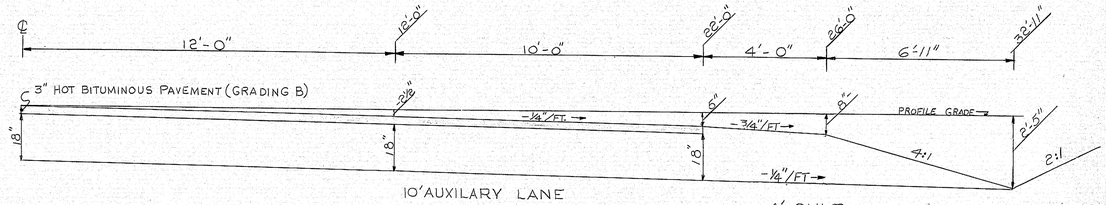


Agg. Subbase Course-Gravel 63.04 C.Y./100 L.F.

Agg. Subbase Course-Gravel 133.33 C.Y./100 L.F.

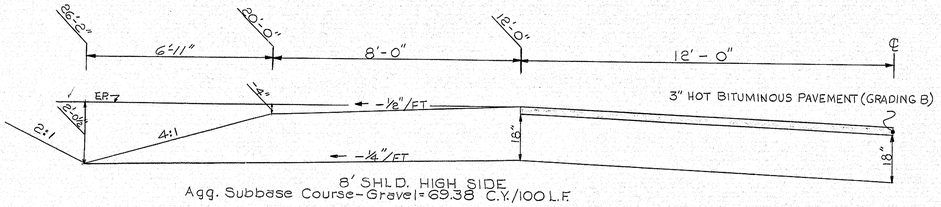
ROUTE 201 DETOUR
NORMAL SECTION

Agg. Subbase Course-Gravel 63.04 C.Y./100 L.F.

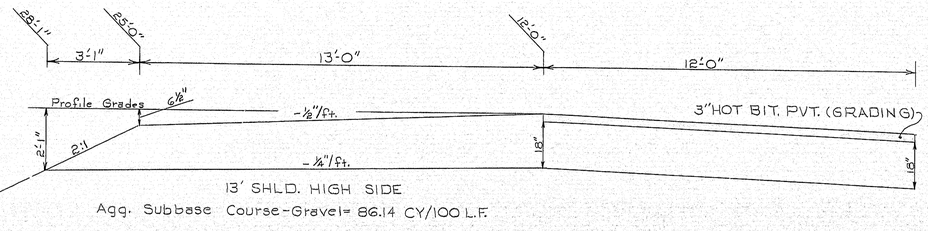


Agg. Subbase Course-Gravel 55.56 C.Y./100 L.F.

Agg. Subbase Course-Gravel 45.14 CY/100 L.F.



Agg. Subbase Course-Gravel= 69.38 C.Y./100 L.F.



Agg. Subbase Course-Gravel= 86.14 CY/100 L.F.

BITUMINOUS PAVEMENT ITEMS						
DESCRIPTION OF COURSE	GRADATION DESIGNATION	ITEM No.	BITUMEN CONTENT PERCENT MIX	TOTAL THICKNESS INCHES	NUMBER OF LAYERS	NOTES
HOT BIT. PAVEMENT	"B"	403.07	5.0 - 6.5	3"	2	1, 2
HOT BIT. PAVEMENT	"B"	403.121	6.5 - 8.0	VARIABLE	1	1, 2 & 3

1. THE BITUMINOUS MATERIAL SHALL BE ASPHALT CEMENT PENETRATION GRADE 120-150 OR VISCOSITY GRADE AC 10.
2. THE ASPHALT CONTENTS SHOWN ARE TO SERVE AS A GUIDE ONLY.
3. DENSITY REQUIREMENTS ARE WAIVED.

PLANS	DESIGN - DETAILED	BY	DATE
	CHECKED		
	REVISIONS		
	FIELD CHANGES	WCE	3/5/74

JANUARY 1968

STATE HIGHWAY COMMISSION

TYPICAL SECTIONS
ROUTE 201 DETOUR

SCALE 1"= 2'

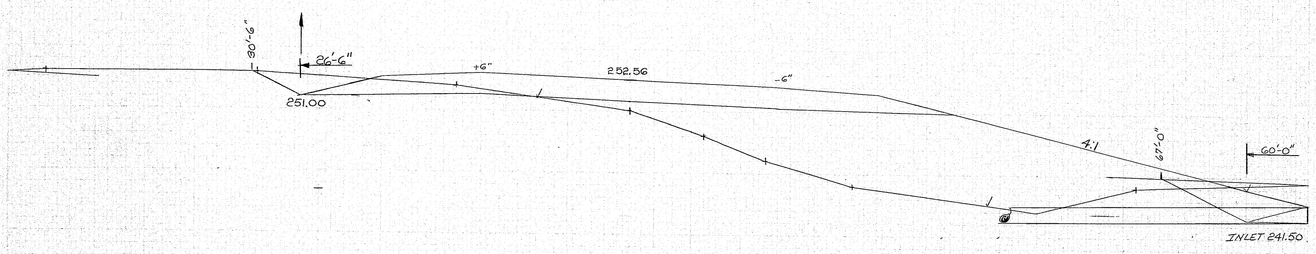
SHEET 34 OF 55 AUGUSTA, MAINE

203-1 2000

152-65

TRUFLEX ★ SILKY ★ TRIPLE WHITE ★ KYLEX

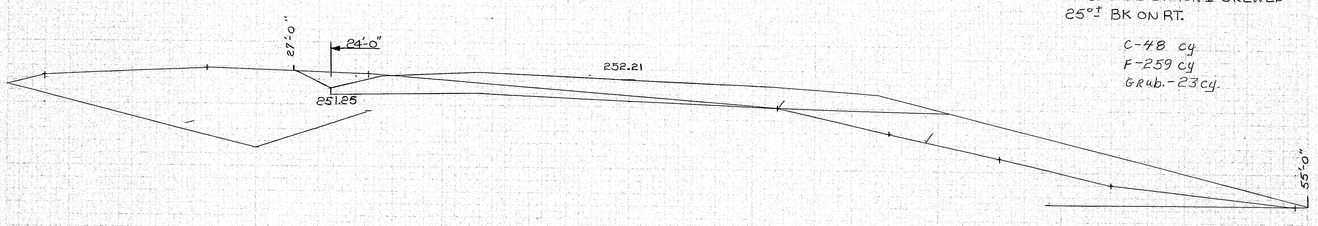
Interpolated Dec 71
Briggs Dec 71
AHSA 12-71
HBSB 12-71



+50 235

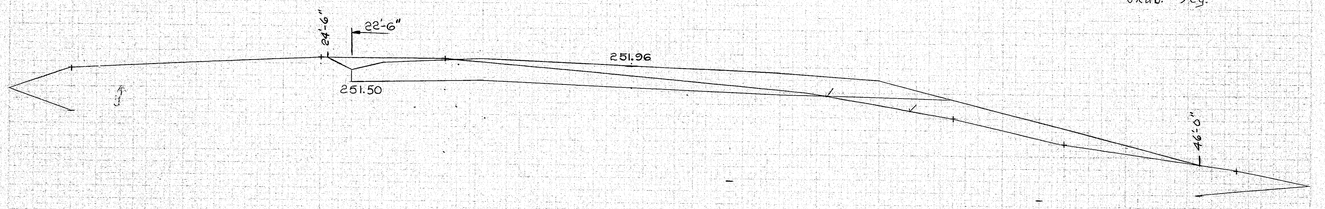
STA 951+75 15' RT. EXTEND EXISTING CULV. WITH 15"X42' CULV PIPE OPTION I SKEWED 25°I BK ON RT.

C-48 cy
F-259 cy
Grub.-23cy.



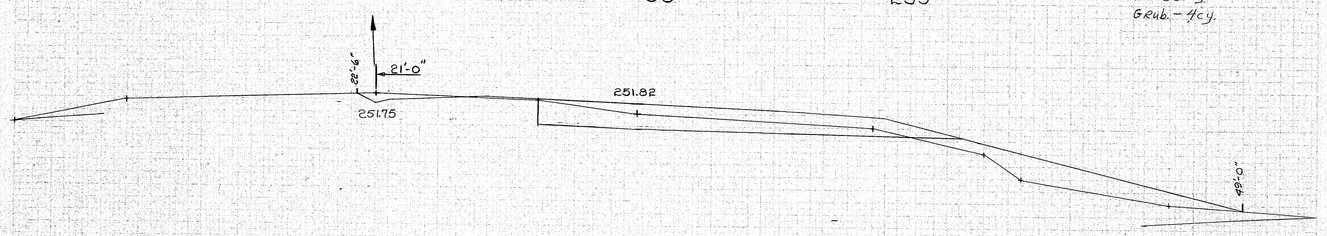
951+0 235

C -65 cy
F. 94 cy.
Grub.- 9cy.

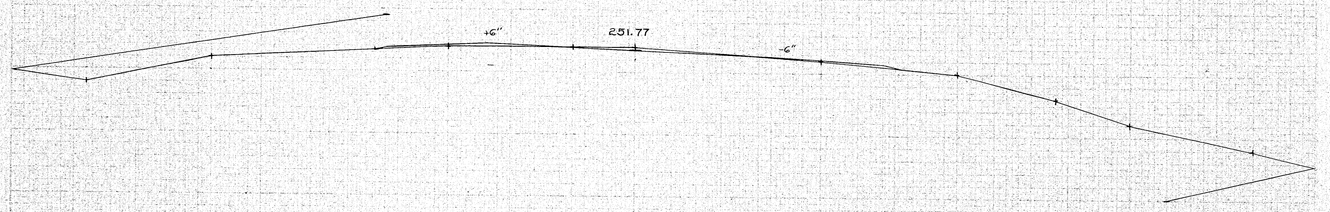


+50 235

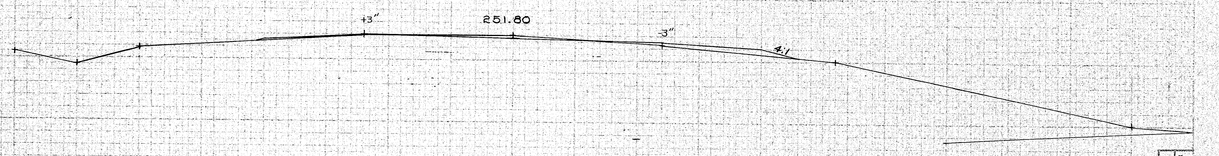
C- 67 cy.
F- 55 cy.
Grub.- 1cy.



950+0 235



+50 235



949+0 235

LIMIT OF WORK 948+50

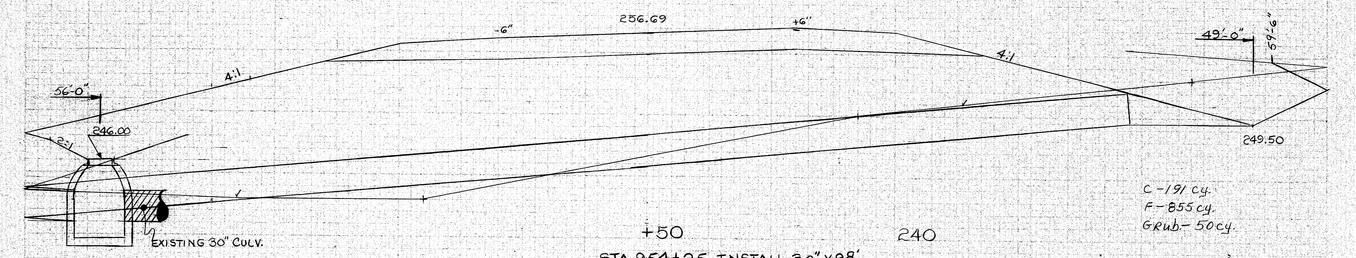
949+0 — 951+50 ℄

N. H. Tk. Instl. No.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	295 S(6)94	35	55

152-66

ORIGINAL SURVEY		BY	DATE
	SURVEYED	Interpolated	Dec 71
	PLOTTED	Briggs	Dec 71
NOTE BOOK	TEMPLATE	M.Pais	12-21
NO. ~~~	AREAS	M.Pais	12-21
	AREAS CHECKED	[illegible]	

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

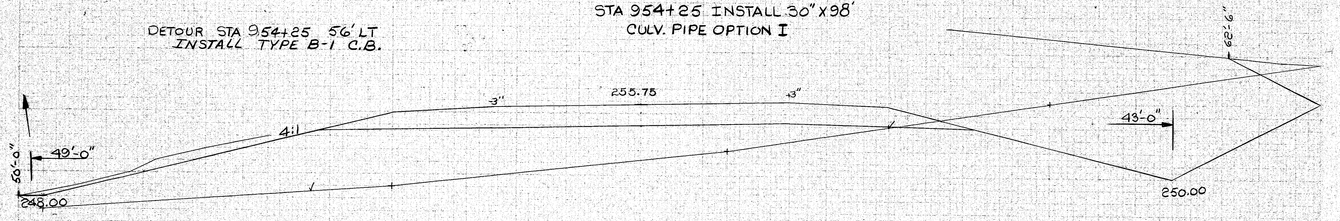


C - 191 cy.
F - 855 cy.
Grub - 50 cy.

DETOUR STA 954+25 56' LT
INSTALL TYPE B-1 C.B.

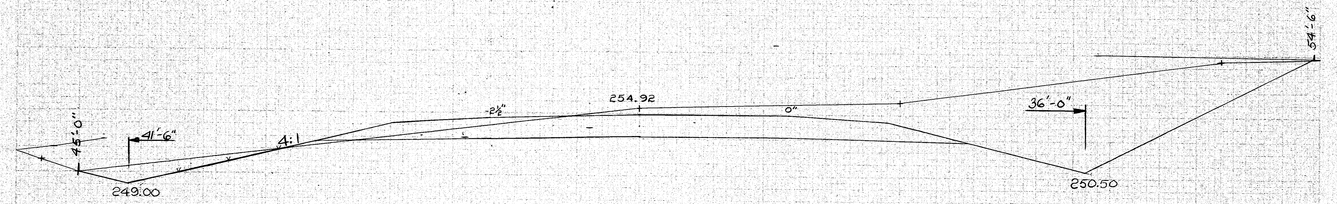
+50 240

STA 954+25 INSTALL 30" X 98'
CULV. PIPE OPTION I



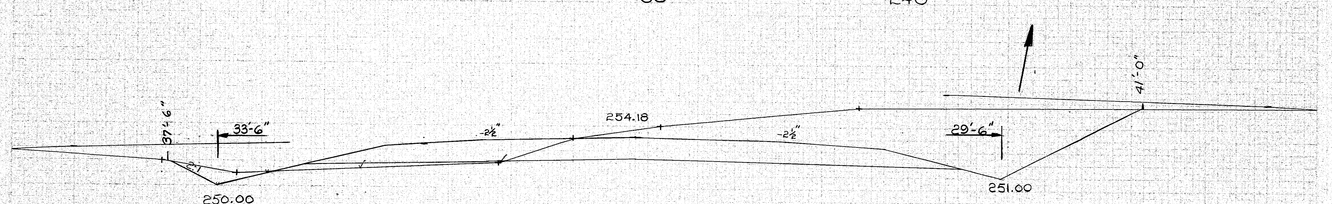
C - 373 cy.
F - 194 cy.
Grub - 22 cy.

9540 240



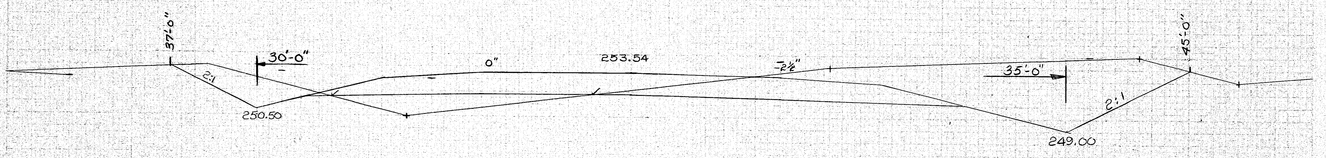
C - 389 cy
F - 10 cy
Grub - 6 cy.

+50 240



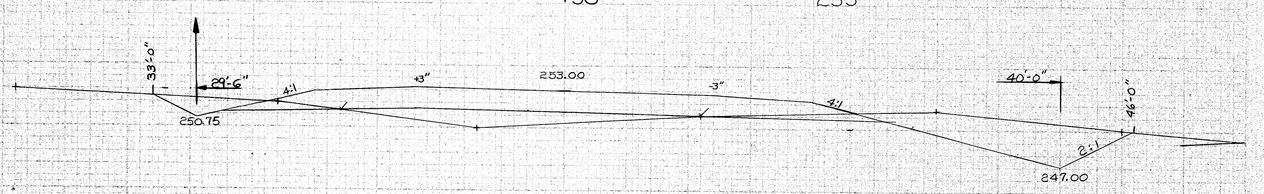
C - 287 cy
F - 28 cy
Grub - 16 cy.

953+0 240



C - 181 cy
F - 42 cy
Grub - 23 cy.

+50 235



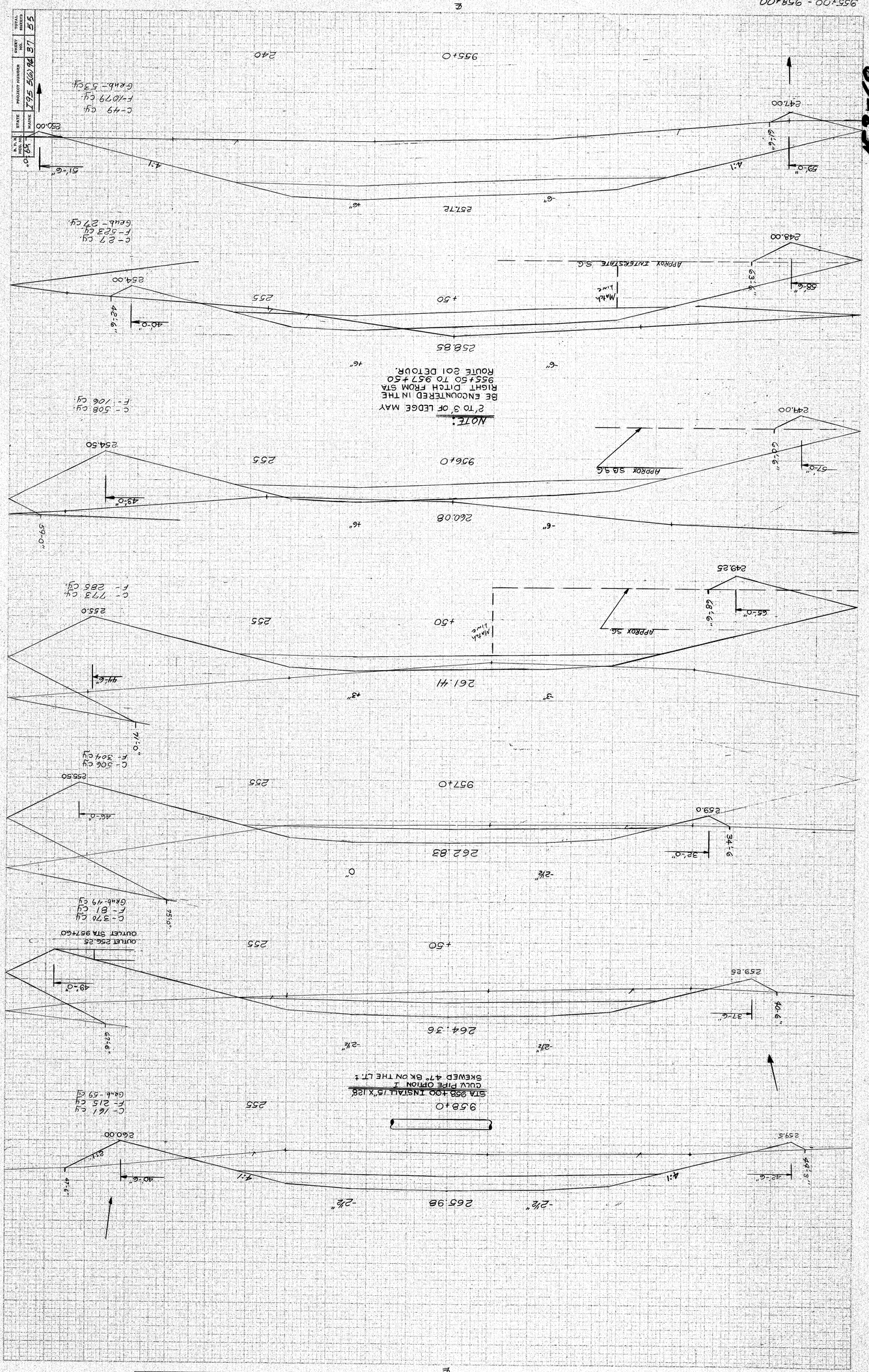
C - 78 cy.
F - 213 cy.
Grub - 31 cy.

952+0 235

152-67

S. T. H. 1	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
VOL.		275-976-34	35	55

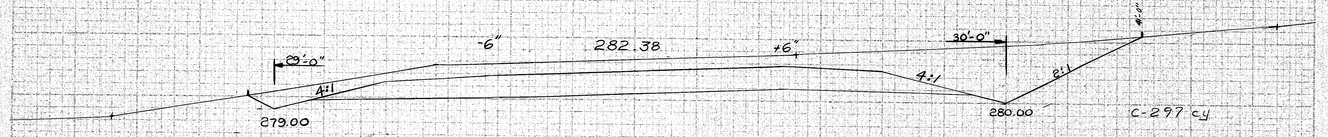
952+0 — 954+50

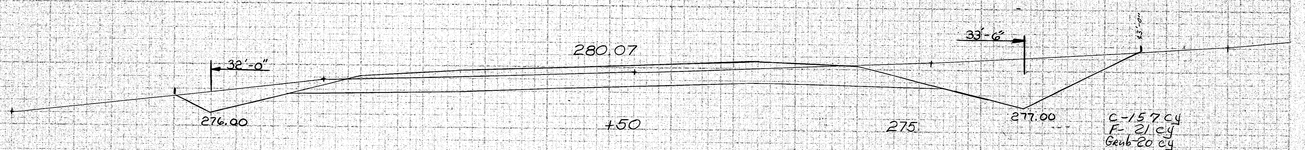

955+00 - 958+00
STA 958+00 TNSTALL 15"X 128' CULV. PIPE OPTION 2
SKEWED 47° BK ON THE LT.
NOTE:
2' TO 3' OF LEDGE MAY BE ENCOUNTERED IN THE RIGHT DITCH FROM STA 955+50 TO 957+50 ROUTE 201 DETOUR.
STA 958+00
957+00
956+00
955+00
Approx Sag
Approx Intersect S.G.
Outlet Sta 957+60
Outlet 256.25
C - 370 cy.
F - 81 cy.
Grnd. - 49 cy.
C - 506 cy.
F - 304 cy.
C - 508 cy.
F - 106 cy.
C - 173 cy.
F - 285 cy.
C - 171 cy.
F - 215 cy.
Grnd. - 59 cy.
C - 27 cy.
F - 523 cy.
Grnd. - 27 cy.
C - 49 cy.
F - 1079 cy.
Grnd. - 53 cy.
1795 566 PM
87
55
ORIGINAL SURVEY
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
Crowe & Crew
Jones
JB Gray
JB Gray
JB Gray
10/11
9/21
10-21
10-21
FINAL SURVEY
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
DATE
BY
NOTE BOOK
NO.

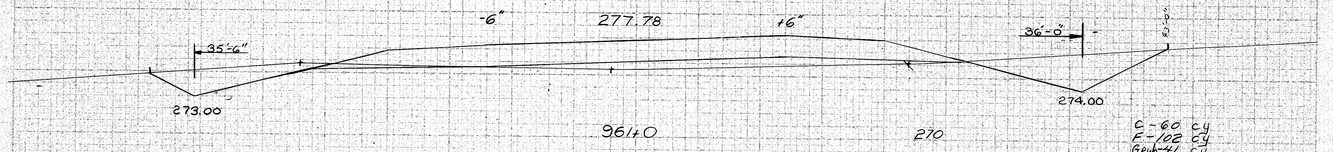
ORIGINAL SURVEY		BY	DATE
	SURVEYED	BROWN & CREW	9/71
	PLOTTED	JONES	10/71
NOTE BOOK	TEMPLATE	M. Peay	12-71
	AREAS	M. Peay	12-71
NO.	AREAS CHECKED		

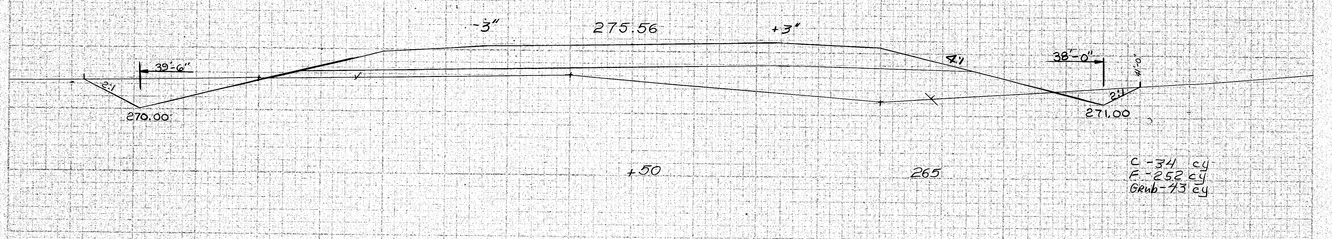
FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

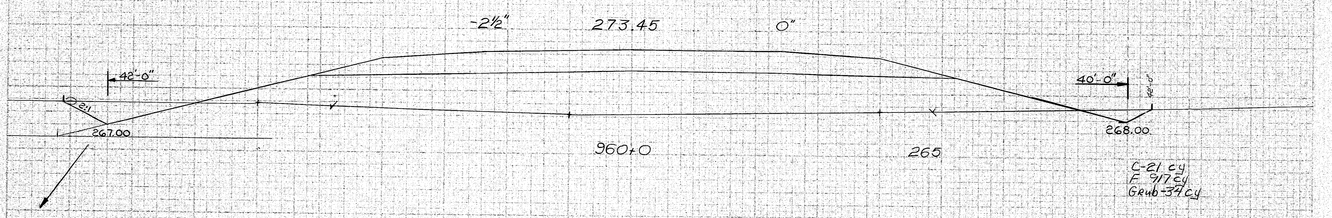
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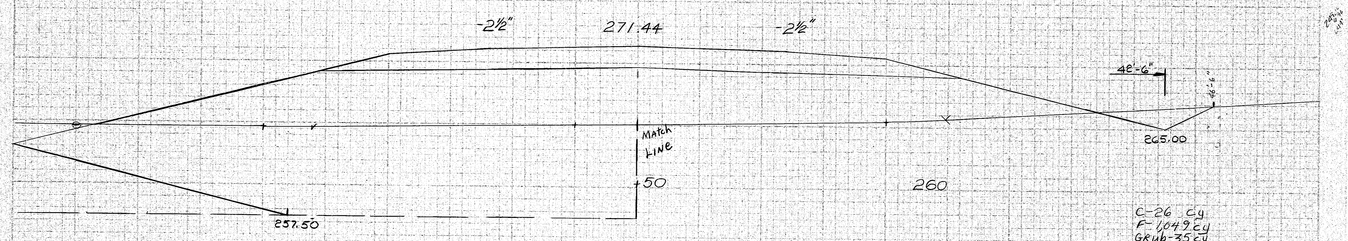


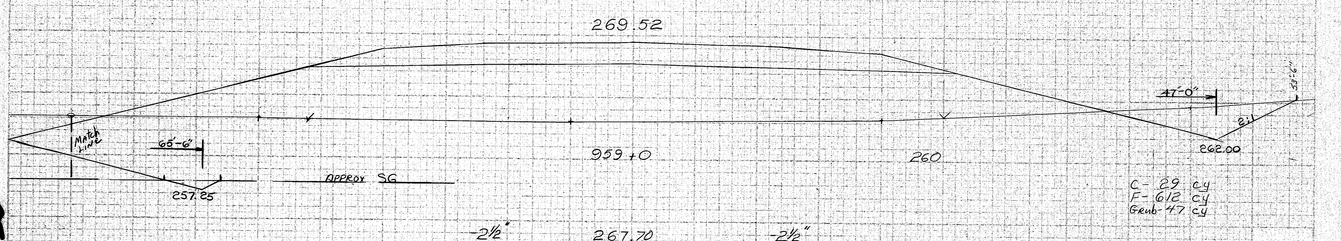


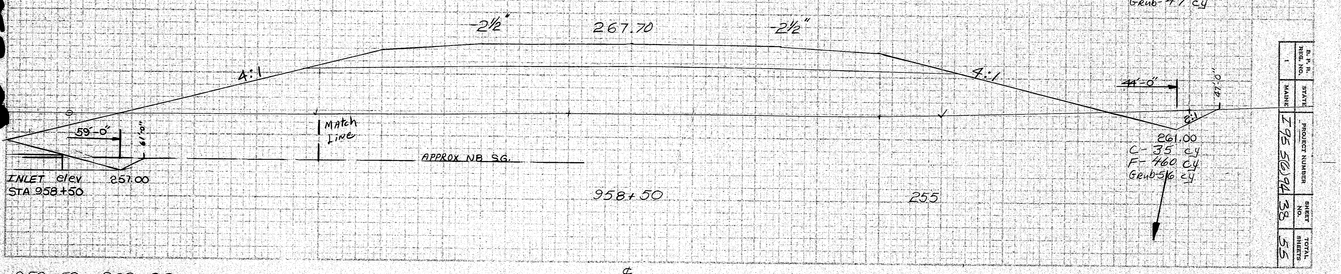












U. N. N. NO.	I
MARKER	REVISED
PROJECT NUMBER	I-75-5(62)94
SHEET NO.	38
TOTAL SHEETS	55

52-69

958+50 - 962+00

℄

4/6

152-10

962+50 - 966+00

℄

962+50

275

-6" 284.67 +6"

-6" 287.00 +6"

963+0

280

-3" 289.31 +3"

+50

285

964+0

285

0" 291.62 0"

+50

285

966+0

285

+6" 298.55 -6"

+50

285

+6" 296.24 -6"

280

965+0

280

+3" 293.93 -3"

ORIGINAL SURVEY		BY	DATE
	SURVEYED	BROWN & CREW	9/71
	PLOTTED	DRAWN	9/71
NOTE BOOK	TEMPLATE	DI-DRAY	9-71
NO	AREAS		
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
MAINE	I-95 S(6)94 34	55	

ORIGINAL SURVEY		BY	DATE
	SURVEYED	BROWN & CREW	3/71
	PLOTTED	JONES	4/71
NOTE BOOK	TEMPLATE	M. GRAY	10-71
	AREAS	M. GRAY	10-71
NO.	AREAS CHECKED		

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

℄

TW

TW

+50

INSTALL GUARD RAIL END TRANSITION
STA 968+50.03 TO STA 969+25 LT.

LIMIT OF WORK
STA 969+25

TW

TW

969+0

X

T.W.

T.W.

+50

305

968+0

305

EQ. 967+72.25 BK 201 DETOUR =
967+50.79 AHD RTE 201

T.W.

T.W.

X

967+50

295

24'-0"

+5"

305.48

-5"

1 3/16:1

4:1

967+0

300

F-208 cy
GRUB-50 cy

22'-0"

+6"

303.17

-6"

2:1

4:1

966+50

295

F-618 cy
GRUB-38 cy

INSTALL GUARD RAIL TYPE 3b
STA 966+25 TO STA 968+50 ± LT

INSTALL GUARD RAIL END TRANSITION
STA 965+50.03 TO STA 966+25 LT

℄

966+50 - 967+00

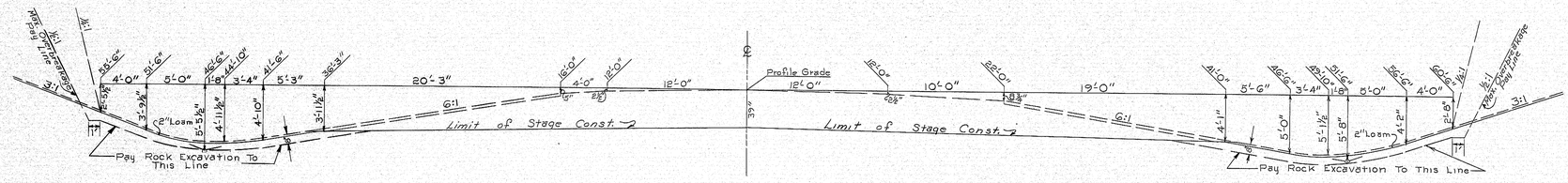
152-21

						SHEET NO.	TOTAL SHEETS
						55	

6/6

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95 5(6)94	41	55

I-95 STAGE CONSTRUCTION



DRAINAGE

STATION	RCP SIZE	RCP LENGTH	RCP CLASS	BCCMP SIZE	BCCMP LENGTH	CMP SIZE	CMP LENGTH	CULVERT PIPE SIZE	CULVERT PIPE LENGTH	CATCH BASINS A1	A2	B1	B2	C1	C2	E	MAN HOLES	UNDERDRAINS 'B' LENGTH	'C' SIZE	'C' LENGTH	'B' OUTLET LENGTH	REMARKS
951+50								15"	84'													OPTION I
951+50 40' Lt.																1						
954+50								30"	104'													OPTION I
958+0								15"	128'													OPTION I
965+20 65.5' RT.																1						
965+30								18"	48'													OPTION I

PLANS	DATE	BY
DESIGN - DETAILED		
CHECKED		
REVISIONS		
FIELD CHANGES		

JANUARY 1968

STATE HIGHWAY COMMISSION

TYPICAL SECTIONS
I - 95

DRAINAGE
LIST

SHEET 41 OF 55 AUGUSTA, MAINE

203-1 2060

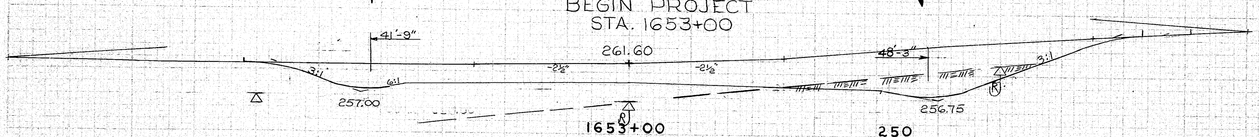
152-72

ORIGINAL SURVEY		BY	DATE
	SURVEYED	LANDERKIN + CREW	3-14-66
	PLOTTED	BRIGGS + BEAULIEU	10-4-66
NOTE BOOK	TEMPLATE		
NO. 952515	AREAS	ALL DAY	11-71
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

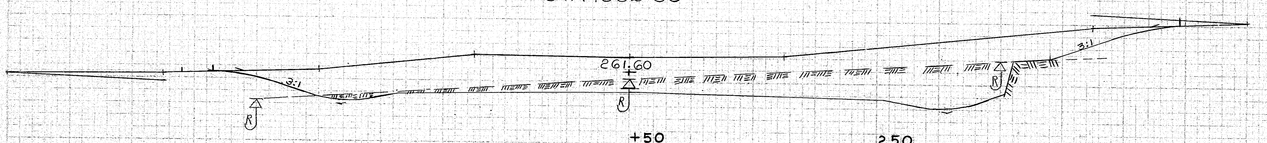
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BEGIN PROJECT
STA. 1653+00

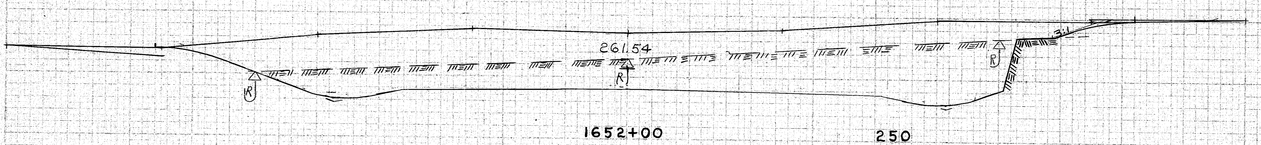


1653+00 250

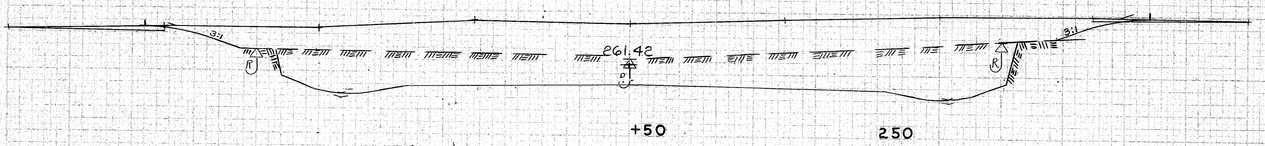
LIMIT OF WORK
STA 1652+90



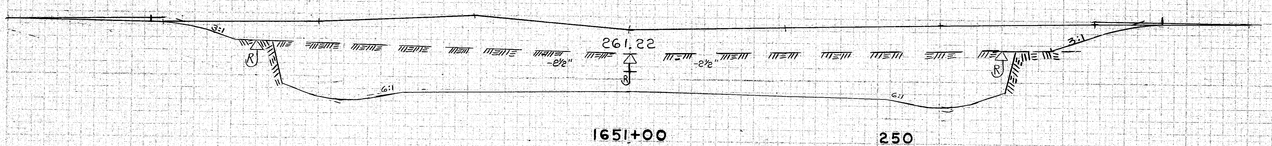
+50 250



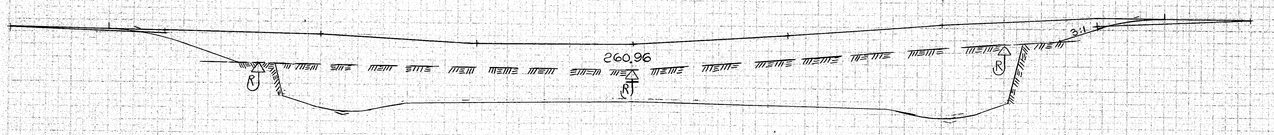
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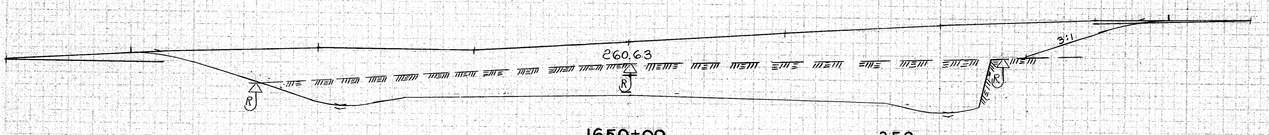
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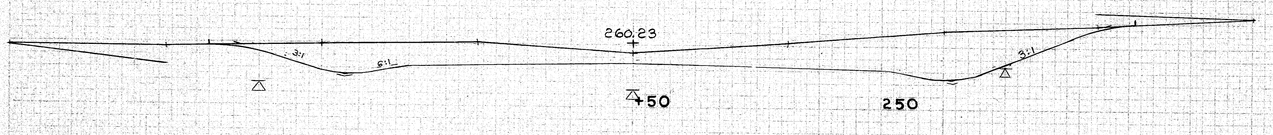
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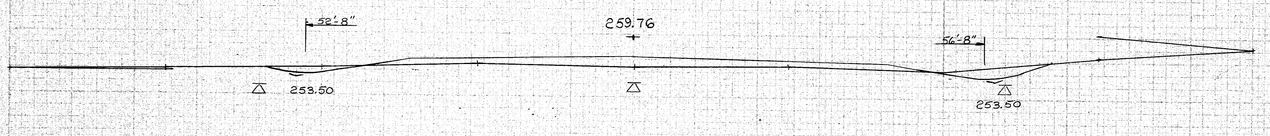
+50 250



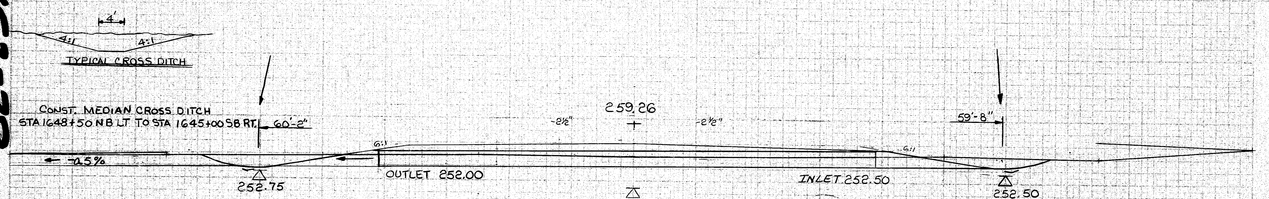
1650+00 250



+50 250



1649+00 240



1648+50 240

N.B. STA. 1648+50 – 1653+00

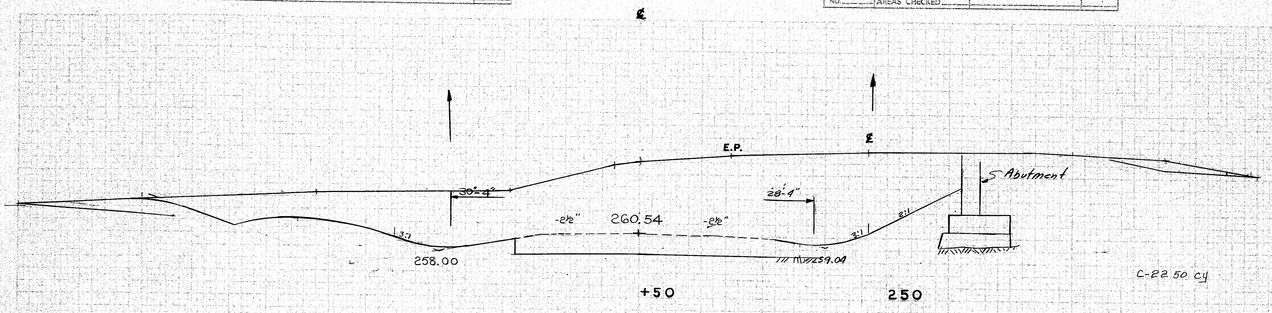
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152-73

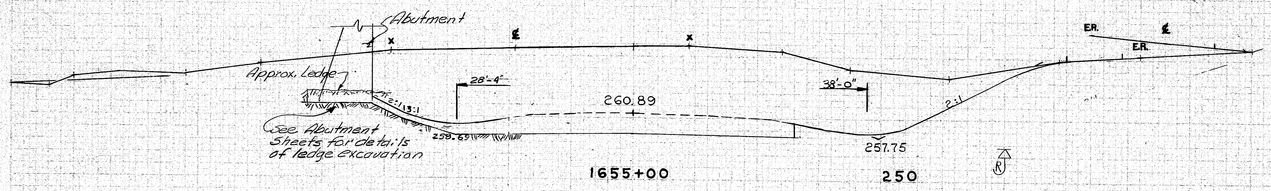
1	R. W. B.	TOTAL SHEETS	55
MARK	DATE	SHEET NO.	24
PROJECT ENGINEER			
			7.25.69

ORIGINAL SURVEY		BY	DATE
	SURVEYED	LANDERKIN & CREW	3-14-66
	PLOTTED	BRIGGS + BEAULIEU	10-4-68
NOTE BOOK	TEMPLATE		
NO. 95/2515	AREAS	M. DRAY	11-71
	AREAS CHECKED		

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE LOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		



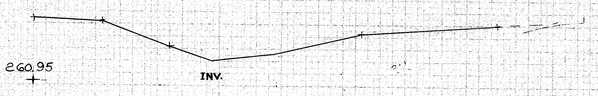
+50 250 C-22.50 cy



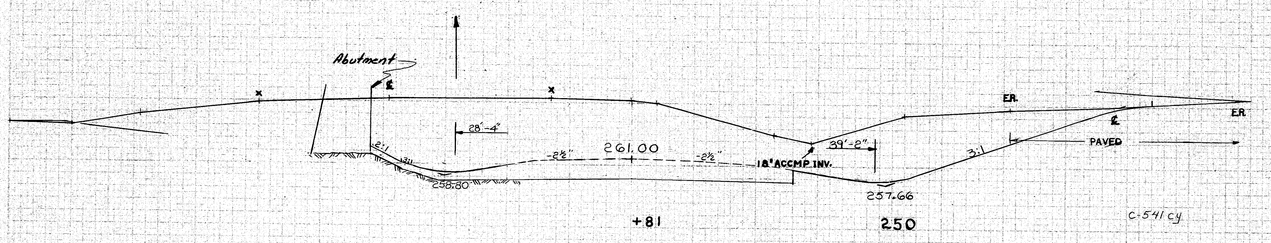
1655+00 250 C-805 cy

NOTE:

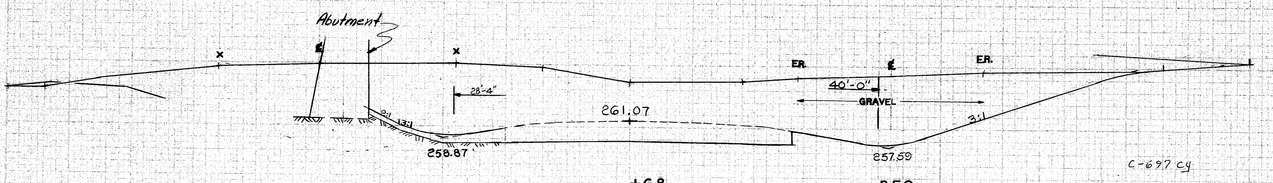
See Abutment plans, and Abutment notes on Sheet 12 before blasting ledge in the area of the bridge structure.
The exact location of the abutments shall be determined on the ground before blasting is done. The location of the abutments shown on these cross sections is not to be assumed to be exact.



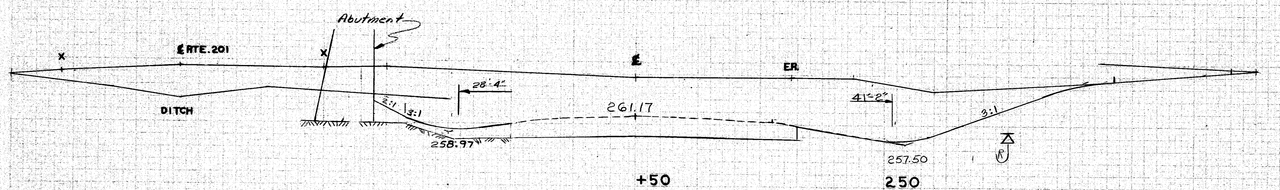
+89 15"ACCMP OUTLET 250



+81 250 C-541 cy



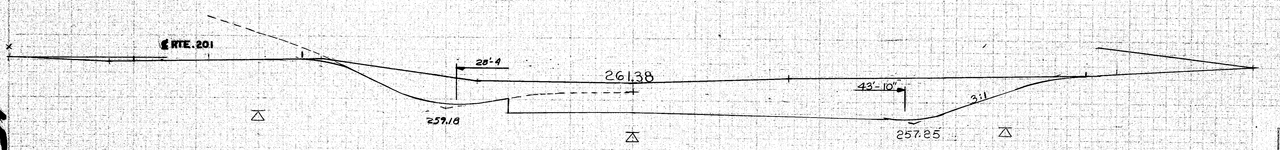
+68 250 C-697 cy



+50 250 C-1491 cy



+45 18"ACCMP OUTLET 250

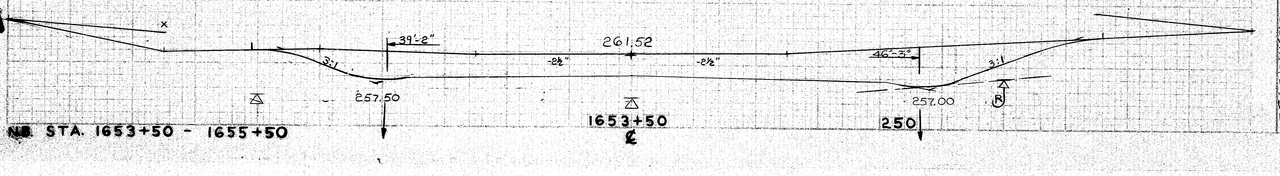


1654+00 250

LT. LIMIT OF NB EXCAV. STA 1653+50 NB.

RT. LIMIT OF NB EXCAV. STA 1654+00 NB

(Lt. only) C-464 cy



1653+50 250

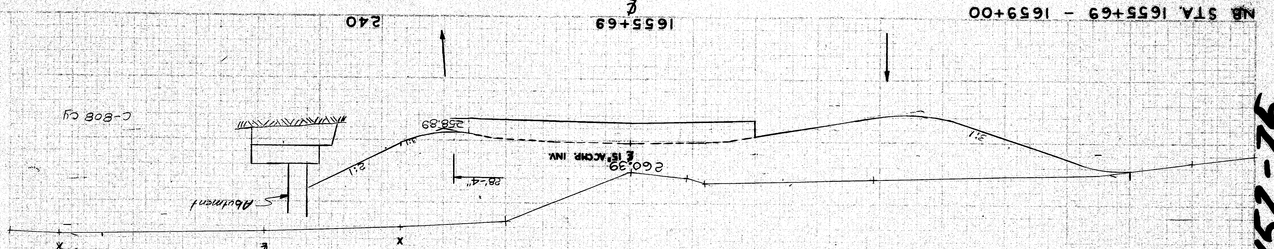
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NB STA. 1653+50 - 1655+50

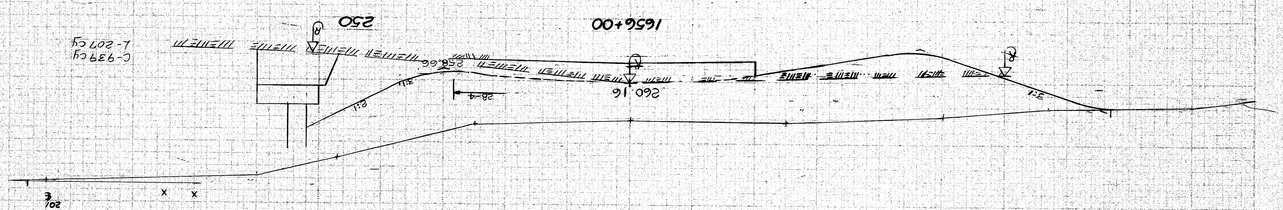
152-24

NB STA. 1655+69 - 1659+00

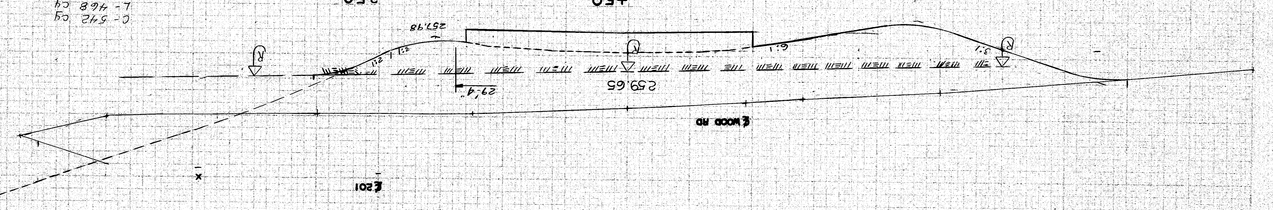
1655+69 ℄ 240



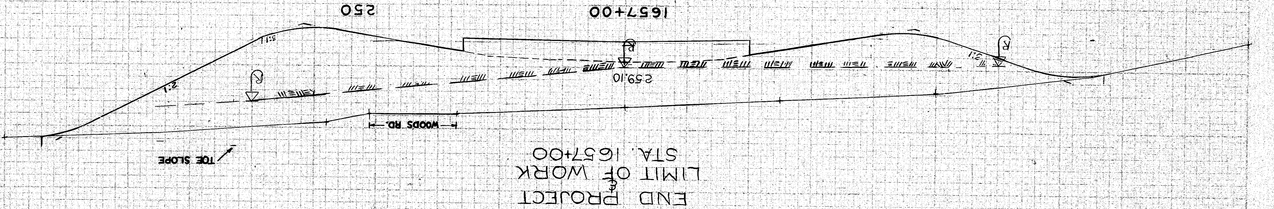
1656+00 250



+50 250

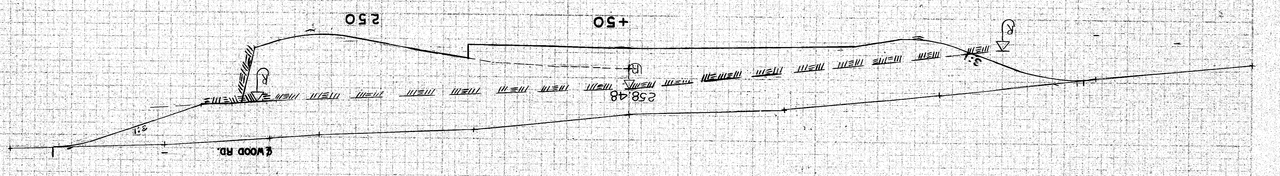


1657+00 250

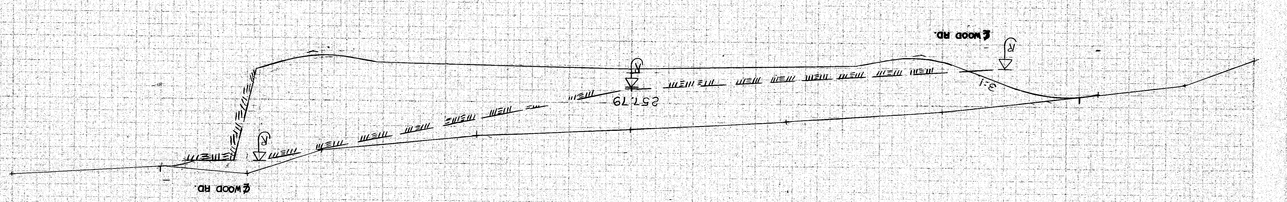


END PROJECT
℄
LIMIT OF WORK
STA. 1657+00

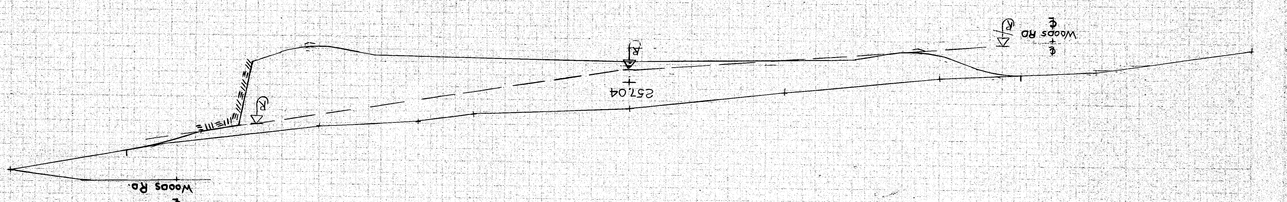
+50 250



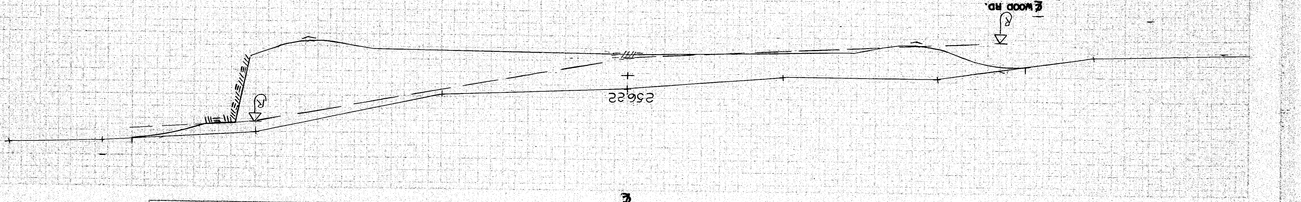
1658+00 240



1658+50 240



1659+00 240



℄

ORIGINAL SURVEY	BY	DATE
SURVEYED	LANDERKIN + CREW	10-65
PLOTTED	BRIDGES + DEVELOPED	10-66
TEMPLATE	M. Daly	12-71
AREAS		
AREAS CHECKED		

NO. 99251

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

NOTE BOOK

NO.

DIST. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
4	MAINE	IM-95-6(19)64	44	55

B. P. R. PROJ. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	ARIZONA	I-10-3(69)94	55	

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		2-27-68
NOTE BOOK	TEMPLATE		09-868
	AREAS		10-71
No. TYPICAL	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

152-76

SB STA 1645+00 – 1649+00

1645+00 ℄ 240

125 Swamp 3:1 6:1 2:1 5'

-2%" 255.05 -2%"

+50 240

254.92 49'-1" 249.25 3:1

1646+00 240

254.80 54'-4" 248.25 3:1 Run Run Run

+50 240

254.67 69'-6" 247.65 3:1 3:1 Run

1647+00 230

STA 1647+00 INSTALL
30"ϕ X 106 RCP CLASS III
STANDARD END TREATMENT (SOD & Rip Rap)

OUTLET 245.65 245.00 INLET 246.85 246.25 Run 2:1 64'-10" 76'-5"

STA 1647+50 SB
LIMIT OF PRE SPLIT
LEDGE
LIMIT OF CONSTRUCTION
STA 1647+80
254.35

+50 240

242.0 Run 246.75 6:1 9:1 64'-10" PRE SPLIT PRE SPLIT 6:1 Ledge Outcrop 252.39 -2%" Run

1648+00 240

STA 1648+00 SB LT ℄ TO ℄ LT
LT. LIMIT OF SB EXCAV.

248.00 64'-2" 254.18 Run 56'-8" 247.25 3:1 PRE SPLIT

1649+00 240

Backfill for the Levee with Granular Borrow Under this Contract

RT LIMIT OF SB EXCAV.
STA 1648+50 SB RT ℄ TO 90 RT

+50 240

248.25 49'-0" 253.91 28'-4" Run Run Rip Rap 3:1

(Hwy) C - 620 cy
L - 309 cy

C - 1281 cy
L - 1187 cy

1649+00 240

249.25 41'-0" 253.39 -2%" 252.09 Run 6:1 2:1 28'-4"

ORIGINAL	SURVEYED:	DION & DREW	DATE: 10-7-65
SURVEY	PLOTTED:	BRIDGE LAYOUT	10-8-65
NOTE BOOK	TEMPLATE:		
NO. 352518	AREAS:		
	AREAS CHECKED:	M. Gray	11-21

FINAL	SURVEYED:		BY	DATE
SURVEY	PLOTTED:			
NOTE BOOK	TEMPLATE:			
NO.	AREAS:			
	AREAS CHECKED:			

Note:
See Abutment plans, and Abutment notes on Sheet 12 before Existing ledge in the area of the Bridge Structure.
The exact location of the abutments shall be determined on the ground before blasting is done. The location of the abutments shown on these Cross sections is not to be assumed to be exact.

SB 1649+50 - 1652+50

1649+50 ℄ 240

1650+00 240

1651+00 240

1652+00 240

+09 240

+50 240

+35 240

+50 240

LIMIT OF WORK
STA 1651+35

LT LIMIT OF SB EXCAV.
STA 1650+25 SB ℄ TO 71' LT

℄

BITCH

DITCH

SALT SHED

WOOD RD.

Ledge

Excavate ledge for abutments and slope protection, see ledge and slope protection sheets for details (typical)

C- 867 cy
L- 1139 cy

C- 589 cy
L-1370 cy

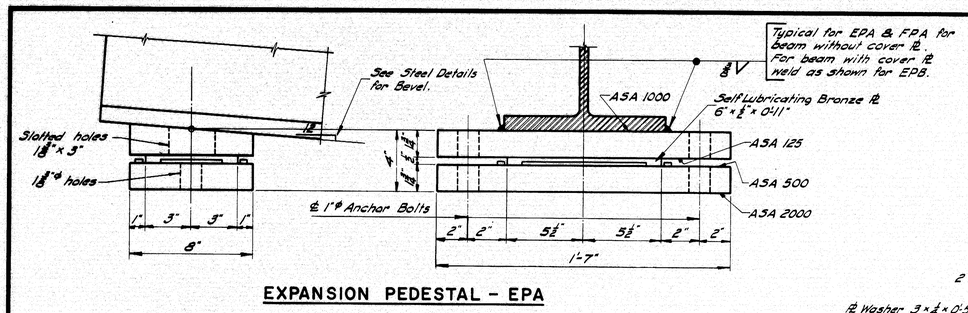
C- 98 cy
L- 270 cy

C- 524 cy
L-1336 cy

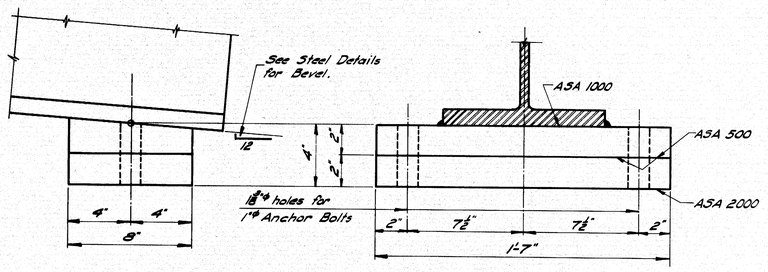
(Ledge) C- 380 cy
L- 894 cy

152-79

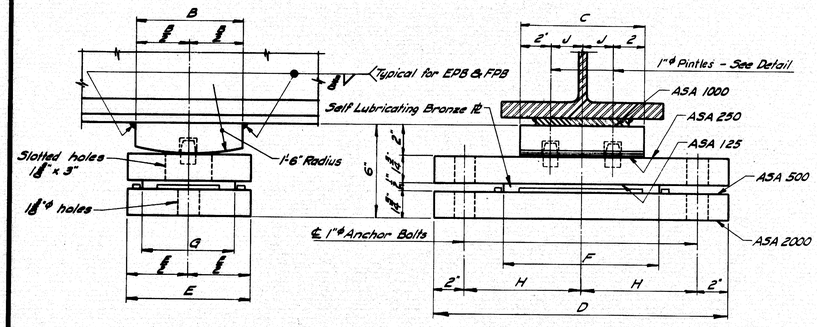
B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95 S(6)94	47	55



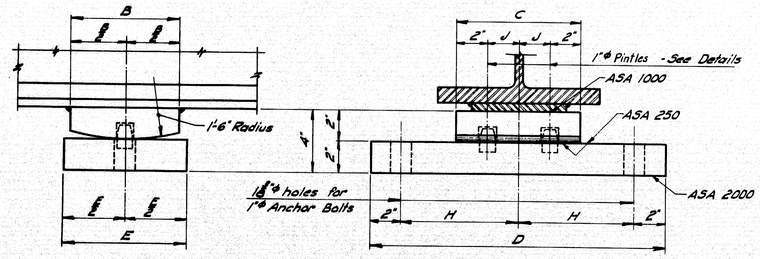
EXPANSION PEDESTAL - EPA



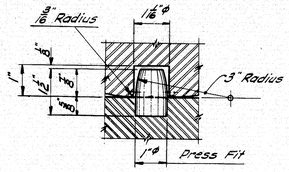
FIXED PEDESTAL - FPA



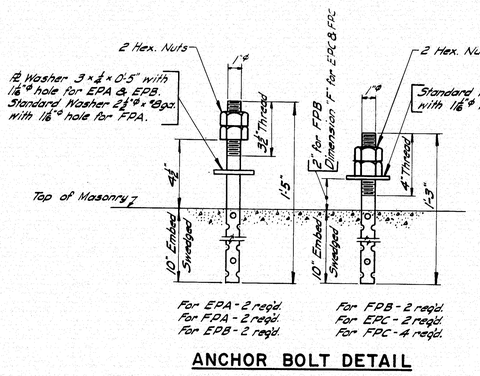
EXPANSION PEDESTAL - EPB



FIXED PEDESTAL - FPB



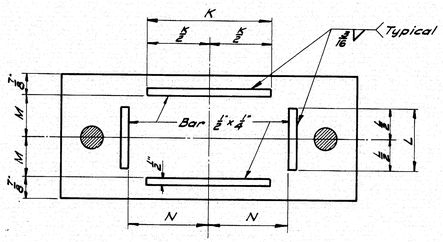
PINTLE DETAIL



For EPA - 2 reqd. For FPA - 2 reqd. For EPB - 2 reqd.

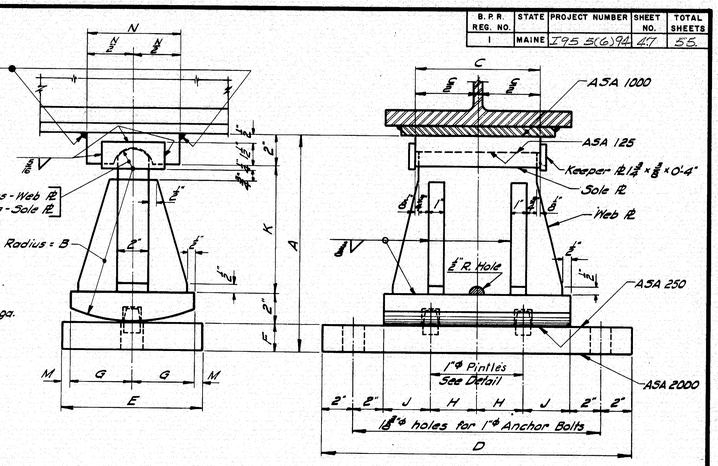
For FPB - 2 reqd. For EPC - 2 reqd. For FPC - 4 reqd.

ANCHOR BOLT DETAIL

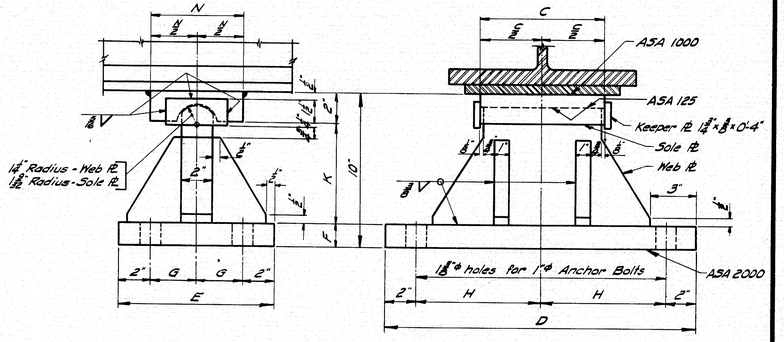


For EPA & EPB

MASONRY PLATE



EXPANSION PEDESTAL - EPC



FIXED PEDESTAL - FPC

PEDESTALS — ALLOWABLE LOADS & DIMENSIONS														
Pedestal	Load	A	B	C	D	E	F	G	H	J	K	L	M	N
EPA	132 K	–	–	–	–	–	–	–	–	–	8"	4"	3 1/2"	5 1/2"
FPA	150 K	–	–	–	–	–	–	–	–	–	–	–	–	–
EPB-1	120 K	–	6"	8"	1'-7"	8"	10"	6"	7 1/2"	2"	8"	4"	3 1/2"	5 1/2"
EPB-2	165 K	–	7"	10"	1'-8"	9"	1'-0"	7"	8"	3"	10"	5"	3 1/2"	6 1/2"
EPB-3	224 K	–	8"	1'-1"	2'-0"	10"	1'-4"	7"	10"	4 1/2"	1'-2"	5"	3 1/2"	6 1/2"
FPB-1	120 K	–	6"	8"	1'-7"	8"	–	–	7 1/2"	2"	–	–	–	–
FPB-2	165 K	–	7"	10"	1'-8"	9"	–	–	8"	3"	–	–	–	–
FPB-3	224 K	–	8"	1'-2"	2'-0"	10"	–	–	10"	5"	–	–	–	–
EPC-1	70 K	9 1/2"	6"	8"	1'-8"	8"	1 1/2"	3 1/2"	3"	3"	4 1/2"	–	1 1/2"	6"
EPC-2	100 K	11 1/2"	8"	8"	1'-8"	8"	1 1/2"	3 1/2"	3"	3"	6 1/2"	–	1 1/2"	6"
EPC-3	130 K	1'-2"	10"	8"	1'-8"	9"	1 1/2"	4"	3"	3"	8 1/2"	–	1 1/2"	7"
EPC-4	160 K	1'-2"	10"	8"	1'-10"	9"	1 1/2"	4"	4"	3"	8 1/2"	–	1 1/2"	7"
EPC-5	190 K	1'-2 1/2"	10"	9"	2'-0"	10"	2"	4 1/2"	5"	3"	8 1/2"	–	2"	8"
EPC-6	220 K	1'-4 1/2"	1'-0"	10"	2'-0"	1'-0"	2 1/2"	5"	5"	3"	10 1/2"	–	1"	8"
EPC-7	250 K	1'-4 1/2"	1'-0"	1'-0"	2'-2"	1'-0"	2 1/2"	5"	5"	4"	10 1/2"	–	1"	8"
FPC-1	100 K	–	–	8"	1'-8"	9"	1 1/2"	2 1/2"	8"	–	6 1/2"	–	–	6"
FPC-2	160 K	–	–	8"	1'-8"	10"	1 1/2"	3"	8"	–	6 1/2"	–	–	7"
FPC-3	190 K	–	–	9"	2'-0"	10"	1 1/2"	3"	10"	–	6 1/2"	–	–	8"
FPC-4	220 K	–	–	10"	2'-0"	1'-0"	1 1/2"	4"	10"	–	6 1/2"	–	–	8"
FPC-5	250 K	–	–	1'-0"	2'-0"	1'-0"	2"	4"	10"	–	6"	–	–	8"

NOTE: At the location of bearing pedestals the concrete bridge seats shall be dressed one inch larger all around than size of masonry plates and to exact elevations shown on the plans. If dressed areas are below the surface of the surrounding bridge seat a small channel shall be cut to the edge of the bridge seat for drainage where required by the Engineer. Channels shall have a min. width of 2" and min. slope of 1/4 inch per foot. No separate payment for this work will be made as it shall be considered incidental to contract items.

DESIGN SPECIFICATIONS

A.A.S.H.O., Standard Specifications for Highway Bridges, 1969

A.S.T.M. STEEL CLASSIFICATION

Anchor Bolts - A36
All other - A36.

Revised- Design Specifications and A.S.T.M. Steel Classification 1969

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS
(BD 101 - 70)

BEARING PEDESTALS

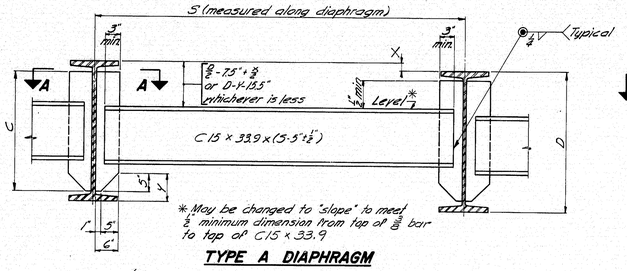
JANUARY 1970

152-78

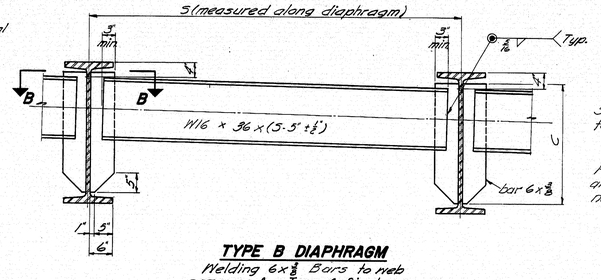
BRUNING 44-131 11224

TRUFLEX ☆ SILKY ☆ TRIPLE WHITE ☆ RYPLEX

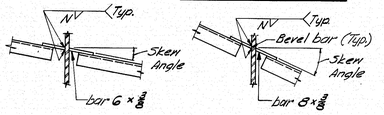
B.P.R. DIV. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
I	MAINE	I-95 5(6)94	48	55



TYPE A DIAPHRAGM



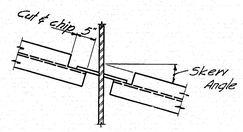
TYPE B DIAPHRAGM
Welding 6 x ⅜ Bars to web same as for Type A Diaphragm.



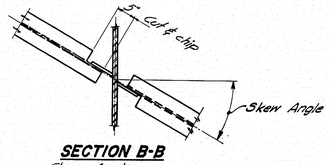
SECTION A-A
Skew Angle 0° to 10°-00'

SECTION A-A
Skew Angle over 10°-00' to 20°-00'

FILLET WELD SIZE "N" & DIMENSION "C" FOR DIAPHRAGM BARS		
BEAM	C	N
W27 x 84 to 114 incl.	1'-11"	¼"
W30 x 99 to 132 incl.	2'-2"	¼"
W33 x 118 to 152 incl.	2'-5"	¼"
W36 x 135 to 194 incl.	2'-7"	¼"
W36 x 230 to 300 incl.	2'-6"	⅜"

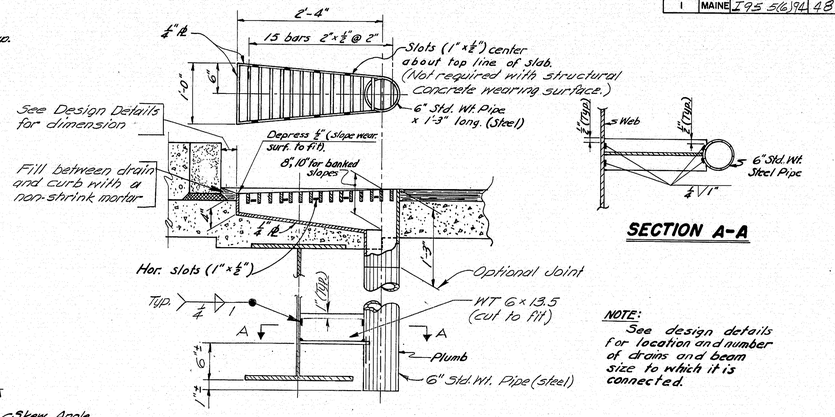


SECTION B-B
Skew Angle 0° to 10°-00'



SECTION B-B
Skew Angle over 10°-00'

NOTE
See design details for diaphragm type, location and skew.

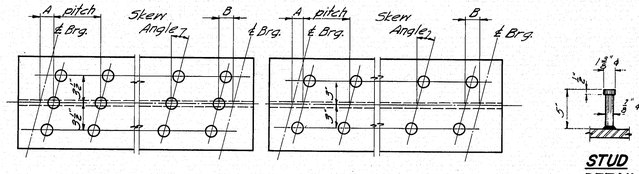


Dr. MAIN NO. 1

SECTION A-A

NOTE:
See design details for location and number of drains and beam size to which it is connected.

DIAPHRAGMS

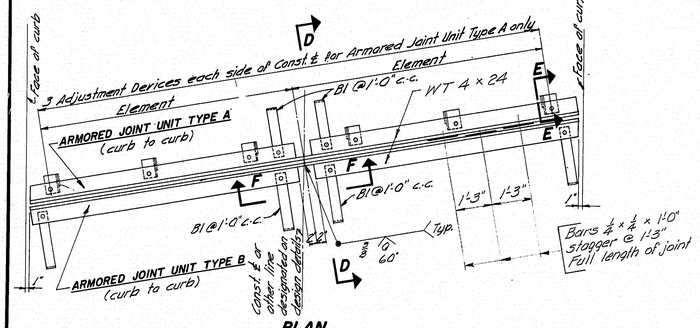


TRIPLE STUDS **DOUBLE STUDS**

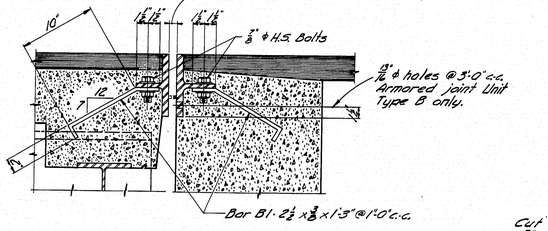
STUD DETAIL

NOTE
1. Studs shall be granular or solid flux filled and automatically end welded to top flange in the shop or field.
2. See the design details for Dimensions "A" & "B", stud pitch and skew angle for studs.

SHEAR CONNECTORS

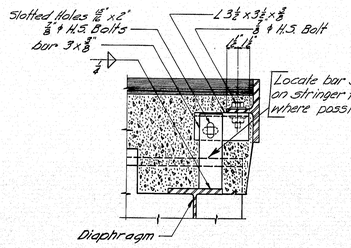


PLAN

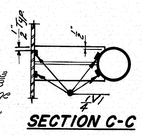


ARMORED JOINT UNIT TYPE A — ARMORED JOINT UNIT TYPE B

SECTION D-D

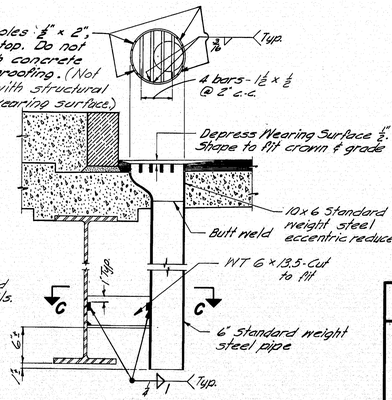


SECTION E-E
Showing Adjustment Device Armored Joint Unit Type A only - After Unit is in final position weld ⅜ fillet to angle with ¼ Fillet



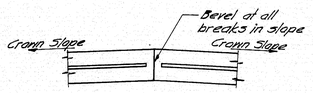
SECTION C-C

NOTE
1. Drain may be rotated 180°. See design details.
2. See design details for location and number of drains and beam size to which it is connected.



DRAIN NO. 2

GENERAL NOTE
Use only those items called for on design details. In case of conflict between these Standard Details and the design details, the requirements of the design details shall be followed.
Drains to be incidental, see Section 502.20



SECTION F-F
Note: See design details for Const. ℄ to curb dimensions, skew, crown slope, slab thickness, other dimensions necessary to complete the fabrication details, and location.

NOTE
1. Type A Armored Joint Units are intended to be used for attachment to superstructures. Type B Armored Joint Units are intended to be used for attachment to abutments. All armored joints over piers, two (2) Type A Armored Joint Units shall be used.
2. If more elements than the two shown in the "Plan" are required by the design details, there shall be three adjustment devices for each element for Armored Joint Unit Type A and the elements of both units shall be field related together in the same manner as shown in the "Plan".
3. Armored Joints to be paid for as Structural Steel.

ARMORED JOINT
An armored joint consists of two armored joint units. See note 1.

MAINE STATE HIGHWAY COMMISSION
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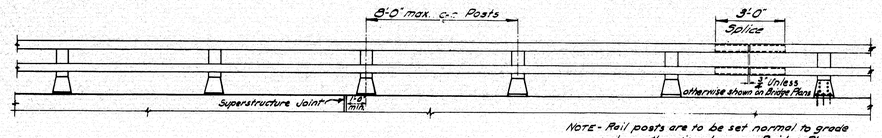
STANDARD DETAILS
(BD 104-71)
DIAPHRAGMS, ARMORED JOINT, SHEAR CONNECTORS, DRAIN

DECEMBER 1971

152-79

touraine paints TRUFLEX ☆ SILKY ☆ TRIPLE WHITE ☆ RYPLEX

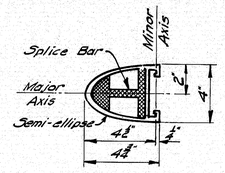
B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I 95 5(6)94	49	55



NOTE - Rail posts are to be set normal to grade unless otherwise shown on Bridge Plans.

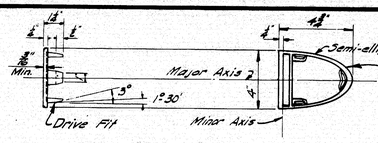
RAIL - ELEVATION

Lengths of rail shall be attached to a minimum of (4) four rail posts, wherever possible, and in any case never less than (2) two.



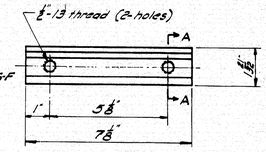
RAIL SECTION

See "Rail Detail"

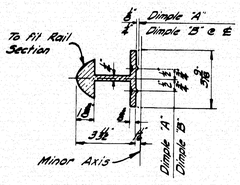


RAIL CAP

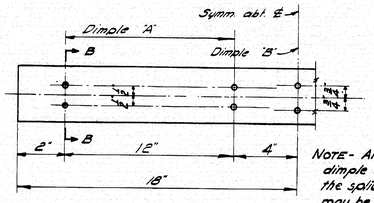
ASTM B26 or B108, Aluminum Assoc. Alloy 43-F or 356-F



CLAMP BAR



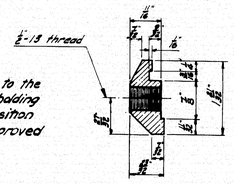
SECTION B-B



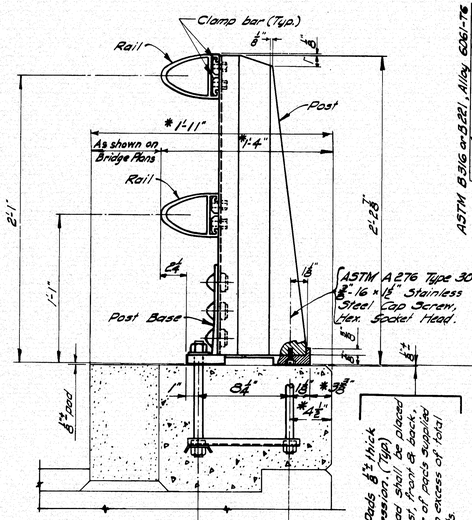
SPLICE BAR

NOTE - An alternate to the dimple system for holding the splice bar in position may be used if approved by the Engineer.

Ⓐ Rail, Splice Bar, & Clamp Bar = ASTM B221, Alloy 6351-T5 or 6061-T6.



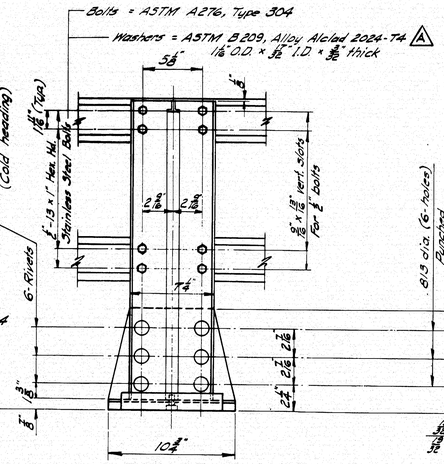
SECTION A-A



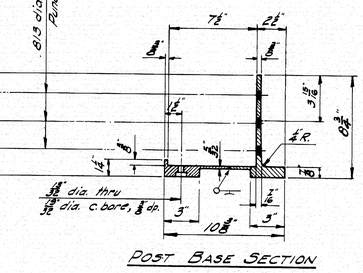
BRIDGE RAIL

Assembly

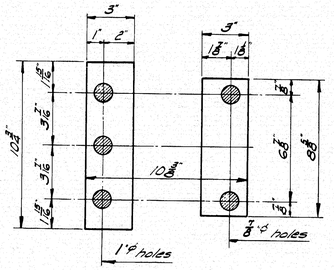
* Preferable minimum dimensions.



REAR ELEV.

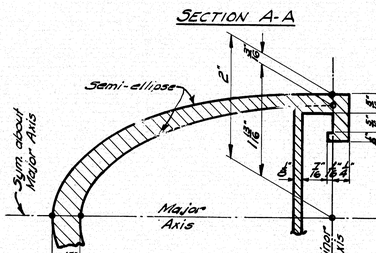


POST BASE SECTION



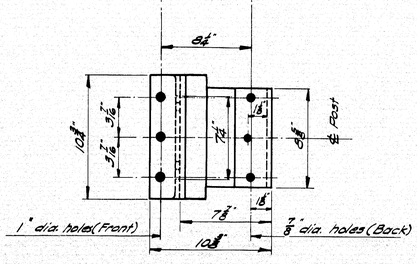
PREFORMED PADS

See Subsection 713.03 Standard Specifications Revision of June 1968 for pad.



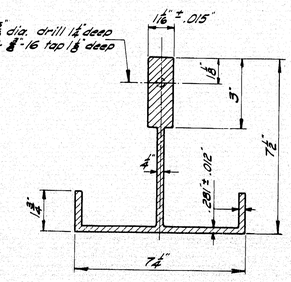
RAIL DETAIL

Preformed Pads 1/2" thick after compression (Typ.) At least one pad shall be placed under each post. Front & back, and the number of pads supplied shall be 10% in excess of total number of posts.



POST BASE

(Bottom View)

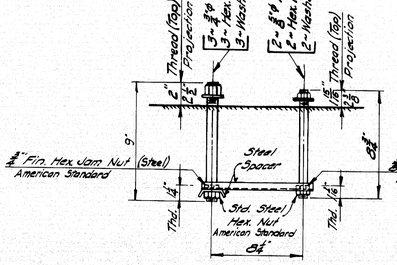


RIVET

Shop rivet rail post to base

POST SECTION

Post & Post Base = ASTM B221, Alloy 6061-T6.



RAIL POST ANCHORAGE

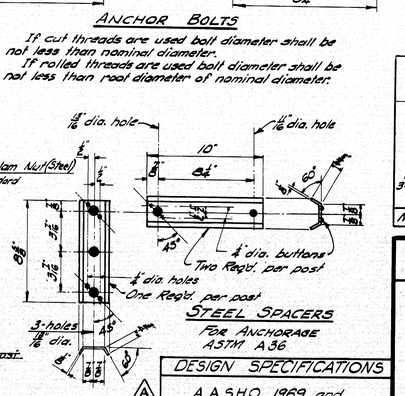
Assembly

NOTE: Anchor Bolts, exposed Hex. Nuts (Amer. Std. Heavy) and washers shall conform to Designation "Stainless

Ⓐ ~~*ASTM A276, Type 304, Ultimate Tensile Strength 100,000 psi minimum, Elongation 15% minimum.~~

Hex. Nuts embedded in concrete shall conform to Steel Designation ASTM A307.

* See Supplemental Specification.



STEEL SPACERS

For Anchorage ASTM A36

ANCHOR BOLTS

If cut threads are used bolt diameter shall be not less than nominal diameter. If rolled threads are used bolt diameter shall be not less than root diameter of nominal diameter.

DESIGN SPECIFICATIONS

Ⓐ A.A.S.H.O. 1969 and Interim Specifications.

MARK	ALTERATIONS
Ⓐ 3-25-70	Changed ASTM B221, to include Alloy 6351-T5 for Rail, Splice & Clamp Bars. Changed ASTM Designations A276 & B209 A276 ~~Type 304 to 305~~ (Post Anchorage) B209 - T3 to T4 (Washers) Changed AASHO Design Specifications from 1965 to 1969.

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS

(BD 106 - 69)

ALUMINUM RAILING

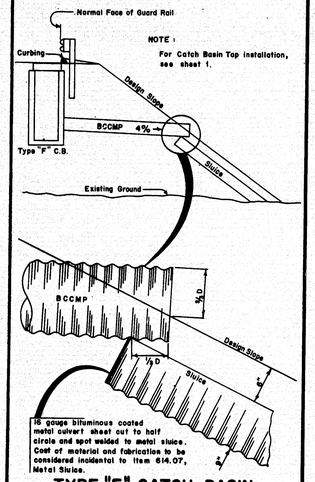
2 - BAR (SEMI-ELLIPSE) EXTRUDED POST

JANUARY 1969

152-80

touraine paints TRUFLEX ☆ SILKY ☆ TRIPLE WHITE ☆ RYPLEX

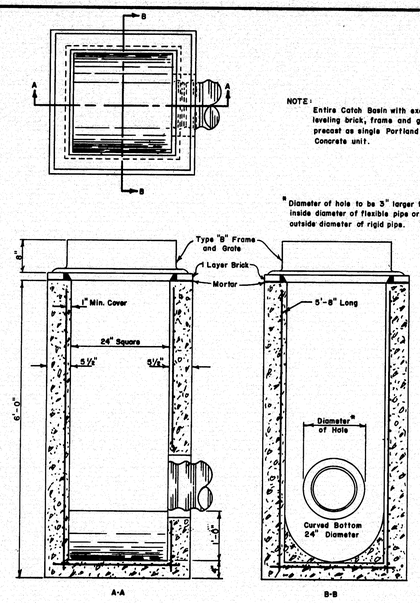
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1955(6)94	50	58



TYPE "F" CATCH BASIN WITH OUTLET PIPE (SLUICE OPTIONAL)

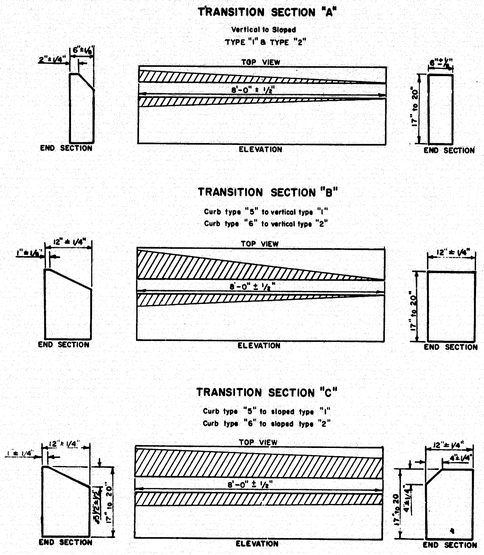
(SEE SHEET NO. 2 FOR STANDARD SLUICE DRAWING)

3-A



CATCH BASIN TYPE "F"

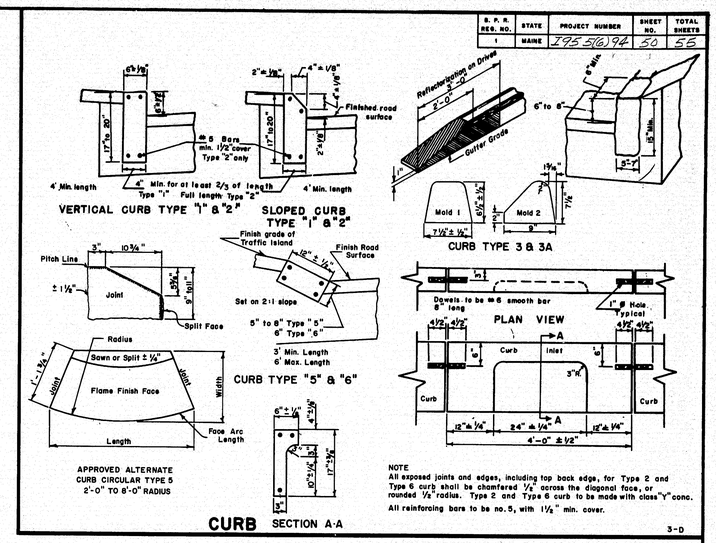
3-B



CURB TRANSITION

NOTE - TYPE 2 CURB
Precast concrete curb to be made with class "Y" concrete.
All reinf. bars to be #5, 1½" min. cover.

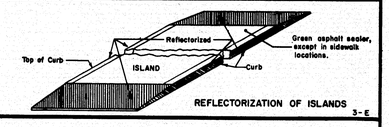
3-C



NOTE
All exposed joints and edges, including top back edge, for Type 2 and Type 6 curb shall be chamfered ½" across the diagonal face, or rounded ½" radius. Type 2 and Type 6 curb to be made with class "Y" conc.
All reinforcing bars to be no. 5, with 1½" min. cover.

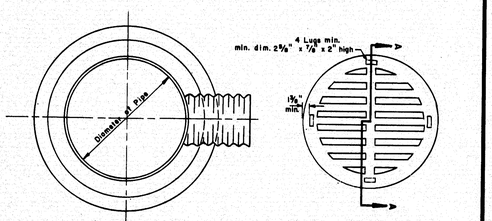
CURB SECTION A-A

3-D



REFLECTORIZATION OF ISLANDS

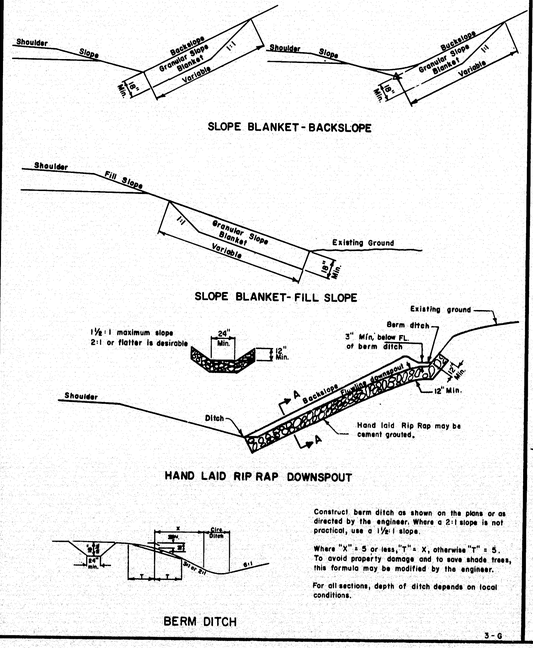
3-E



1. Excess pipe to be cut and folded against the inside wall of Catch Basin. Joints to be caulked with Oakum and Asphalt Cement. Joint may be shop welded.
2. Stubs to be made from 2 foot length of pipe. Cost shall be incidental to the Catch Basin item
3. Grate shall be considered part of the structure and no separate payment shall be made.
4. Grate to be of gray cast iron.
5. Bars of grate to be placed parallel with Flow
6. 30" catch basins, type "E" shall have a total width of openings 14" min. 24" catch basins, type "E", shall have a total width of openings 8" min.
7. Corrugated metal pipe shall be 14 gauge and bituminous coated.

CATCH BASIN TYPE "E"

3-F

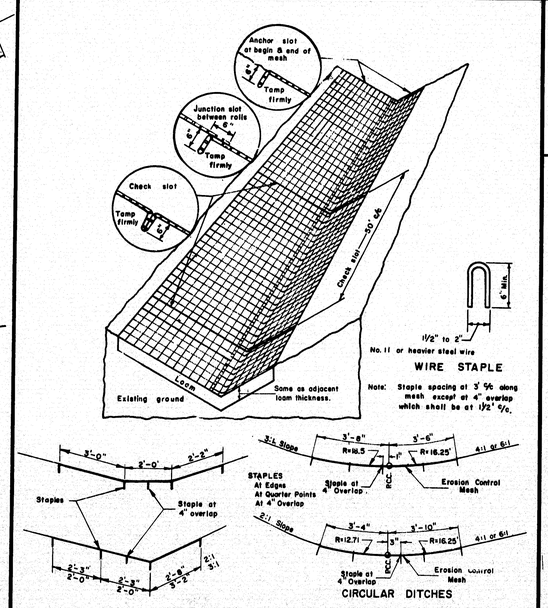


Construct berm ditch as shown on the plans or as directed by the engineer. Where a 2:1 slope is not practical, use a 1½:1 slope.

Where "X" = 5 or less, "Y" = X, otherwise "Y" = 5. To avoid property damage and to save shade trees, this formula may be modified by the engineer.

For all sections, depth of ditch depends on local conditions.

3-G



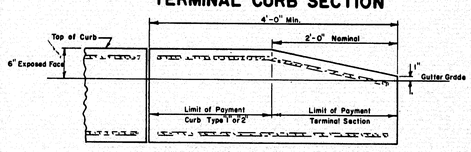
EROSION CONTROL MESH

3-H

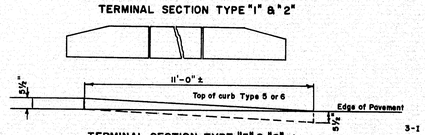
CURB TYPES (1&2),(5&6) ON CURVES			
RADIUS OF CURVE	LENGTH	PAID FOR AS	STONE IS CUT OR CAST
0' To 60' Incl.	4' Min.	Circular	Arc To Fit Curve
Over 60' To 160'	4' To 6'	Straight	Straight Pieces
0' To 8' Incl.	2' Min.	Circular	To Fit Curve
Over 8' To 30' Incl.	12" Min. Chord	Circular	Straight Pieces, Radial Ends
Over 30' And Under 160'	2' To 3'	Straight	Straight Pieces
160' And Over	3' To 6'	Straight	Straight Pieces

3-J

TERMINAL CURB SECTION



TERMINAL SECTION TYPE "1" & "2"



TERMINAL SECTION TYPE "5" & "6" (Use when shown on plans only)

3-I

REVISIONS	
Plate 3-G	12-23-69
Plate 3-F	5-27-70
Plate 3J	7-15-70
PLATE 3G	3-4-71

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS

CURB, DITCHES AND SLOPES, AND CATCH BASINS TYPE "E"

AUG. 1969 (3)

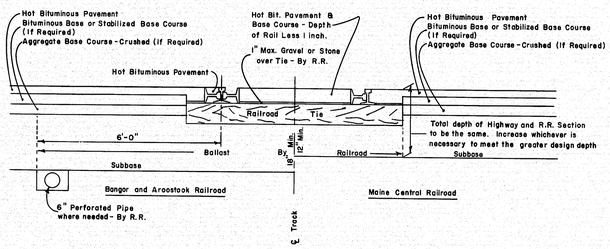
152-81

touraine paints TRUFLEX ☆ SILKY ☆ TRIPLE WHITE ☆ RYPLEX

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I 95-1(6)94	51	55

NOTES:

1. Creosote ties through crossing.
2. Rail joints in crossing to be welded
3. Stone Ballast to extend along track beyond each side of the crossing approximately 40'-0". By Railroad.
4. Work to be done by Railroad
   - A. Placement of Ballast.
   - B. Placement of Ties and Rails.
   - C. Placement of 1" max. Gravel over Ties.



4-A

TABLE A

RIVETED PIPES		
SIZE	NO. HOOK BOLTS REQUIRED	"X" DIMENSION
60"	4	1.5
66"	4	1.5
72"	4	1.5
78"	5	1.5
84"	5	1.5

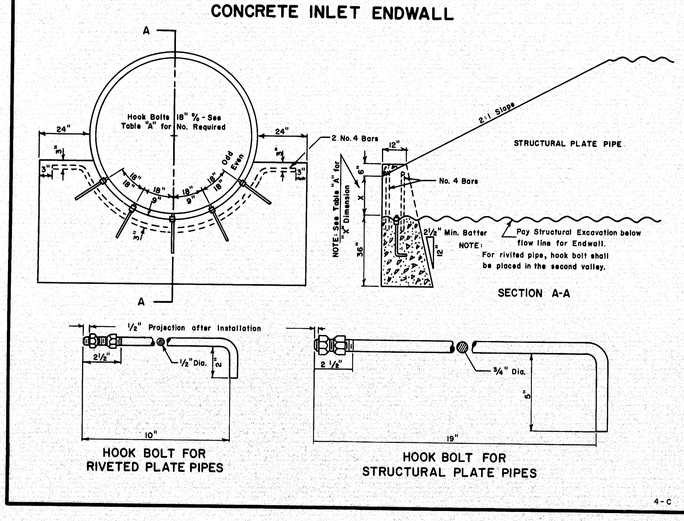
STRUCTURAL PLATE PIPE		
SIZE	NO. HOOK BOLTS REQUIRED	"X" DIMENSION
72"	4	1.5'
78"	5	1.625'
84"	5	1.75'
90"	5	1.875'
96"	6	2.0'
102"	6	2.125'
108"	6	2.25'
114"	7	2.375'
120"	7	2.5'
126"	7	2.625'
132"	8	2.75'
138"	8	2.875'
144"	9	3.0'
150"	9	3.125'
156"	9	3.25'
162"	10	3.375
168"	10	3.5
174"	10	3.625'
180"	11	3.75'

NOTES

1. Culverts installed under 2:1 slopes shall have riprap laid on 2:1 slope and no ditch transitions.
2. Excavation required to grade culvert inlets and outlets as shown will not be paid separately, but will be incidental to the culvert.
3. Hook bolts are required in metal pipes only and will be incidental to concrete item.
4. Concrete endwall shall be structural concrete class "A" and shall be paid for as item 502.32 structural concrete culvert endwalls.
5. All riprap as shown shall be hand laid.

4-B

CONCRETE INLET ENDWALL

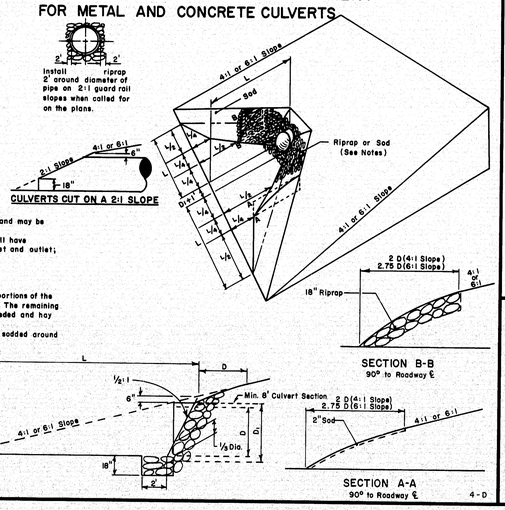


4-C

ROADWAY CULVERT END SLOPE TREATMENT FOR METAL AND CONCRETE CULVERTS

TABLE B

Culvert Diameter	L 4:1 Slope	L 6:1 Slope
18"	9'-0"	13'-0"
21"	10'-0"	15'-0"
24"	11'-0"	16'-6"
30"	13'-0"	20'-0"
36"	15'-6"	23'-0"
42"	17'-6"	26'-0"
48"	19'-6"	29'-6"
54"	22'-0"	32'-6"
60"	24'-0"	36'-0"
66"	26'-0"	39'-6"
72"	28'-6"	42'-6"
84"	32'-6"	49'-0"

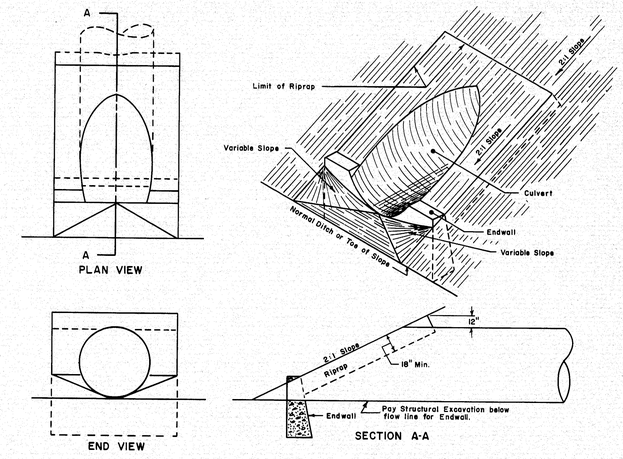


NOTES:

1. The dimensions shown are approximate and may be modified by the resident engineer.
2. Culverts installed under 2:1 slopes shall have riprap laid on 2:1 slope around the inlet and outlet; and no ditch transitions.
3. Riprap will be required on the portions of the culvert end treatment (1) and steeper. The remaining portion shall be sodded or loamed, seeded and hay mulched as directed by the engineer.
4. 24" diameter culverts and under may be sodded around ends of culvert.

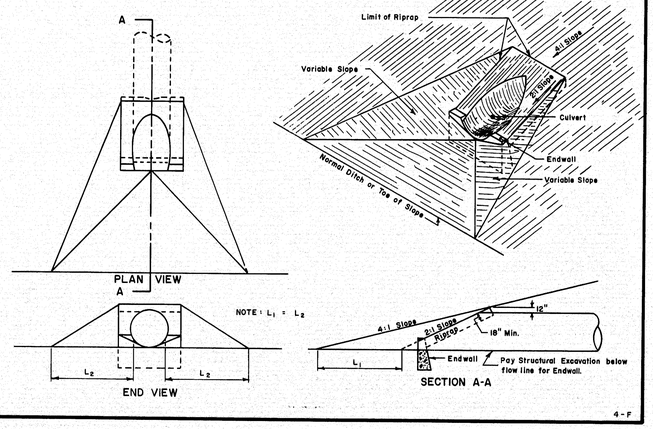
4-D

CONCRETE INLET ENDWALLS FOR RIVETED AND STRUCTURAL PLATE PIPES 60" TO 180" IN 2:1 SLOPES



4-E

CONCRETE INLET ENDWALLS FOR RIVETED AND STRUCTURAL PLATE PIPES 60" TO 180" IN 4:1 SLOPES



4-F

REVISIONS	
Plate 4-D	12-23-69

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS

CULVERT INLETS & OUTLETS

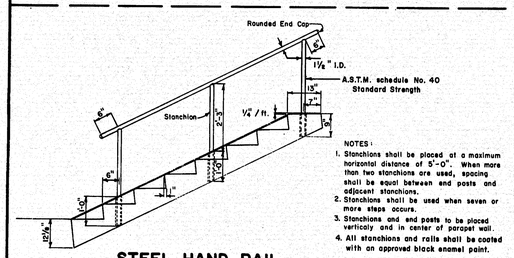
AUG. 1969

4

152-82

courable Terms TRUFLEX ★ SILKY ★ TRIPLE WHITE ★ RYPLEX

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	195 5(6) 94	52	55



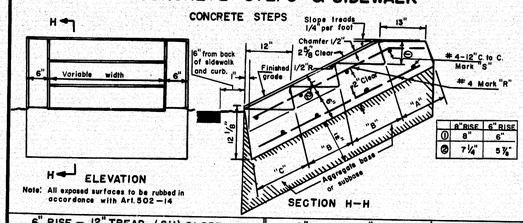
NOTES:
1. Stanchions shall be placed at a maximum horizontal distance of 5'-0". When more than two stanchions are used, spacing shall be equal between end posts and adjacent stanchions.
2. Stanchions shall be used when seven or more steps occure.
3. Stanchions and end posts to be placed verticaly and in center of parapet wall.
4. All stanchions and rails shall be coated with an approved black enamel paint.

STEEL HAND RAIL

5-A

CONCRETE STEPS & SIDEWALK

CONCRETE STEPS



	6" RISE	7" RISE
A	8"	6"
B	7¼"	5⅞"

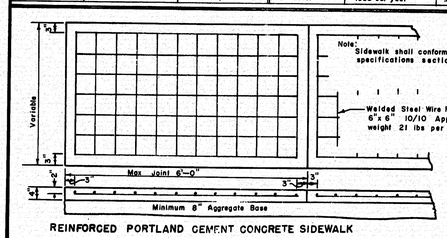
H ELEVATION

Note: All exposed surfaces to be rubbed in accordance with Art. 502-14

SECTION H-H

6" RISE – 12" TREAD (2:1) SLOPE				8" RISE – 12" TREAD (1½:1) SLOPE			
REINFORCING STEEL							
Mark	Size	Number	Length (Each)	Mark	Size	Number	Length (Each)
R	#4 .668 lbs. per ft.	2 Each parapet 1 Each ft. of width	11" For "A" +13.4 For each "B" +12" For "C"	R	#4 .668 lbs. per ft.	2 Each parapet 1 Each ft. of width	11" For "A" +16½" For each "B" +12" For "C"
S	#4 .668 lbs. per ft.	2 For "A" 2 For each "B" 2 For "C"	4 Each parapet + 12" per ft. of width	S	#4 .668 lbs. per ft.	2 For "A" 2 For each "B" 2 For "C"	4 Each parapet + 12" per. ft. of width

CONCRETE CLASS "A"					
Section	Steps per ft. of width	Parapet each wall	Section	Steps per ft of width	Parapet each wall
"A" Header	.030 cu. yds.	.015 cu. yds.	"A" Header	.035 cu. yds.	.018 cu. yds.
"B" Each intec step	.030 cu. yds.	.020 cu. yds.	"B" Each intec step	.035 cu. yds.	.024 cu. yds.
"C" Footer	.030 cu. yds.	.020 cu. yds.	"C" Footer	.035 cu. yds.	.024 cu. yds.



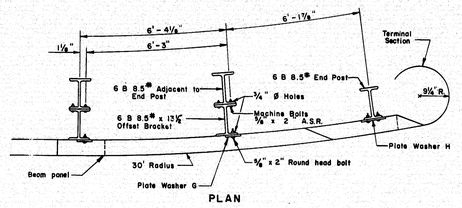
Note: Sidewalk shall conform to standard specifications section 608

Welded Steel Wire Fabric 6"x 6" 10/10 Approx. weight 21 lbs per 100 sq.ft

REINFORCED PORTLAND CEMENT CONCRETE SIDEWALK

5-B

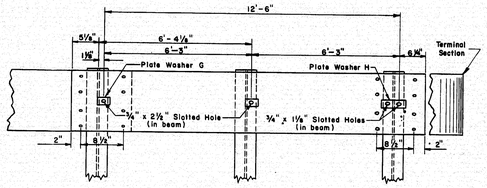
END BEAM ASSEMBLY - SPACING OF POSTS GUARD RAIL TYPE 3a and 3b



PLAN

To be used in all locations except on the end away from traffic on 4 lane divided.

NOTE: Offset Bracket shall be installed on all posts, except end post.

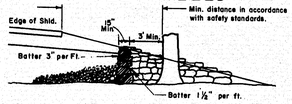


ELEVATION

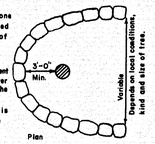
5-C

5-D

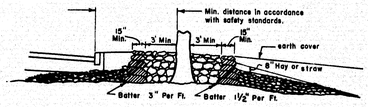
TREE WELLS

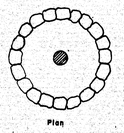


NOTES:
1. Selected ledge excavation, crushed stone or other porous material shall be used to fill around the old ground area of the tree from the tree well to the perimeter of the branches.
2. An 8" layer of hay or straw to prevent infiltration of fines shall be placed over the root fill except in areas under the roadway and shoulders.
3. If drainage away from the tree well is necessary, underdrain outlet pipe shall be used, and will be paid for under item 605.10.



Plan

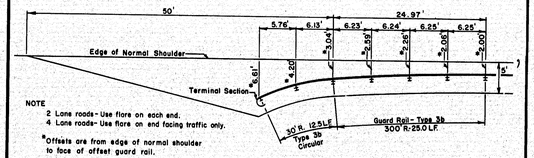




Plan

To be paid for under item
610.09 Hand laid riprap.
605.10 6" Underdrain Outlet

5-E



NOTE
2 Lane roads- Use flare on each end.
4 Lane roads- Use flare on end facing traffic only.

*Offsets are from edge of normal shoulder to face of offset guard rail.

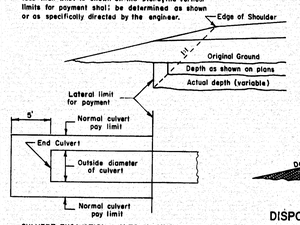
GUARD RAIL END TRANSITION

5-F

5-G

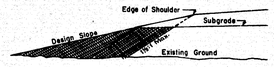
MUCK EXCAVATION PAYMENT LIMITS

NOTE:
When muck is excavated to a depth greater or less than what is shown on the plans, the vertical limits for payment shall be determined as shown or as specifically directed by the engineer.

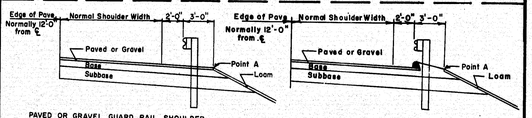


CULVERT EXCAVATION LIMITS IN MUCK AREAS
PLAN VIEW

When directed by the engineer, waste material shall be used in this area. No additional payment will be made for this work.



DISPOSAL OF WASTE MATERIALS



PAVED OR GRAVEL GUARD RAIL SHOULDER

PAVED GUARD RAIL SHOULDER WITH CURB

Point A = Normal Slope Break

LOCATION OF GUARD RAIL

5-H

REVISIONS	
Plate 5-A	12-24-69
PLATE 5B	1-27-71
PLATE 5 H	5-12-71

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

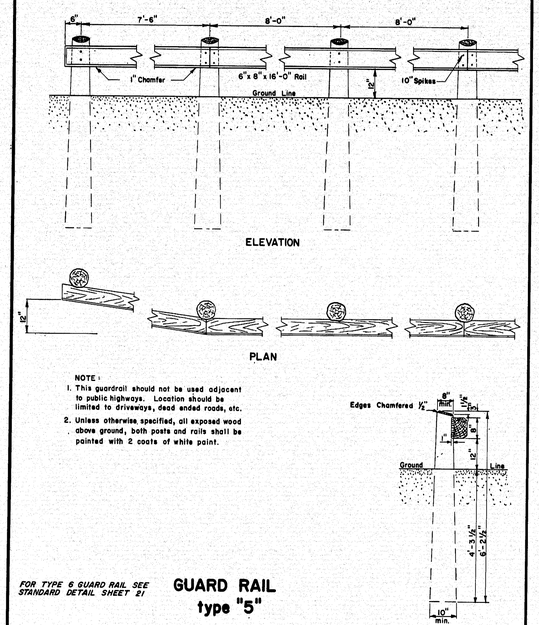
STANDARD DETAILS

GUARD RAIL, MUCK EXCAVATION
CONCRETE STEPS & SIDEWALK
GUYING TREES
TREE WELLS

AUG. 1969 (5)

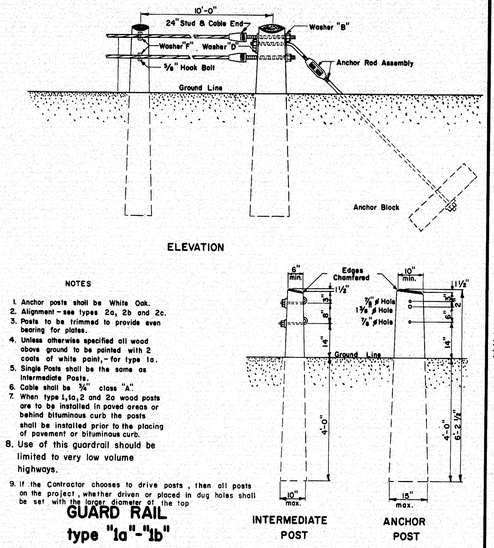
152-83

Laurentian Printing TRUFLEX SILEX TRUFLEX RYFLEX



FOR TYPE 6 GUARD RAIL, SEE STANDARD DETAIL SHEET 21

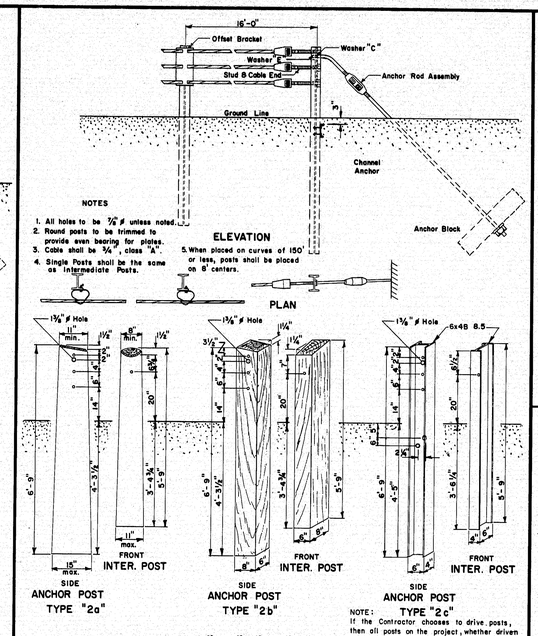
GUARD RAIL type "5"



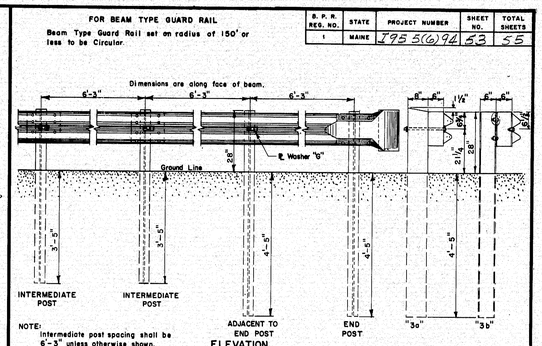
GUARD RAIL type "1a"-"1b"

INTERMEDIATE POST

ANCHOR POST

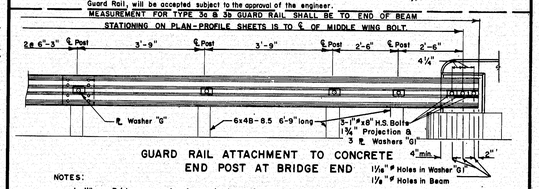


GUARD RAIL type "2a"-"2b"-"2c"



MEASUREMENT FOR TYPE 3a & 3b GUARD RAIL SHALL BE TO END OF BEAM

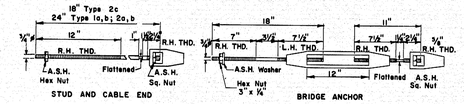
STATIONING ON PLAN-PROFILE SHEETS IS TO ℄ OF MIDDLE WING BOLT.

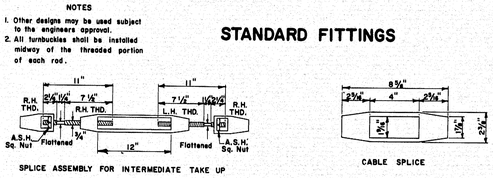


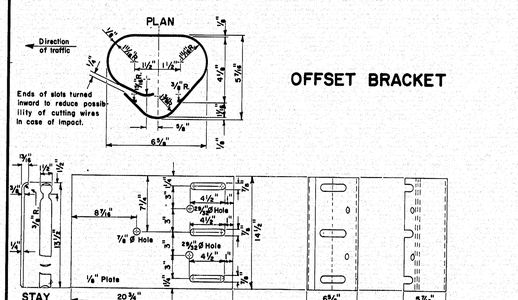
GUARD RAIL ATTACHMENT TO CONCRETE END POST AT BRIDGE END

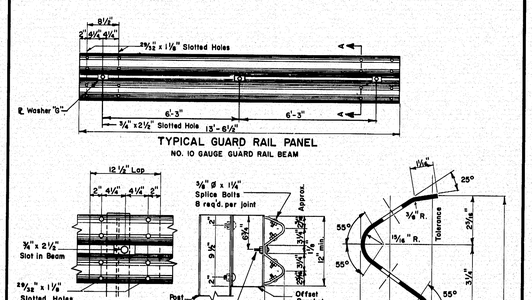
NOTES:
1. Where Bridge expansion is required at Connection, it will be detailed on the Construction Plans.
2. Guard Rail shall be connected to the structure as shown. Payment for the connection to the structure and additional posts shall be incidental to the Guard Rail Item.
3. Splice holes in Guard Rail Beam that are not used in connection, to be plugged with button head bolts, or omitted.

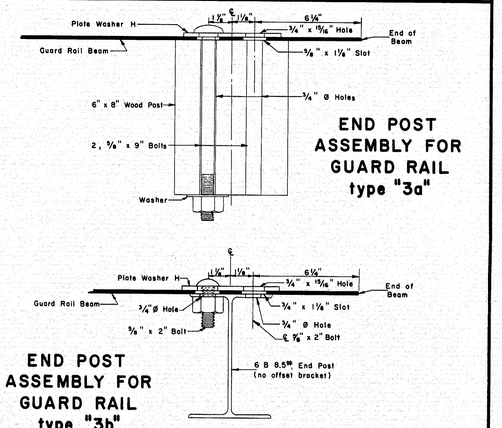
GUARD RAIL type "3a" & "3b" PLATE "D"











REVISIONS	
Plate "D"	11-22-71

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS

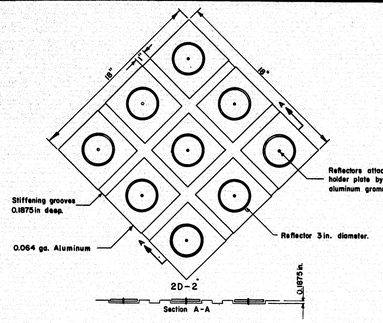
GUARD RAILS, ANCHOR ASSEMBLIES, PLATE WASHERS and STANDARD FITTINGS

AUG. 1969 (6)

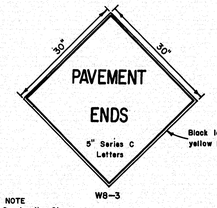
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I 95 5(6) 94	53	55

152-84

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HAZARD MARKER

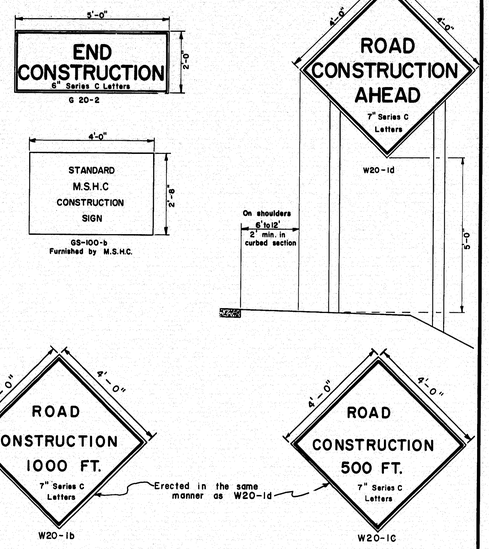


NOTE

SIGNING IN AN AREA WHERE BLASTING IS NECESSARY SHALL BE PLACED AS OUTLINED IN THE "MANUAL", AND THE PRECAUTIONS OF SUBSECTION 107.12 OF THE STANDARD SPECIFICATIONS SHALL BE OBSERVED.

GENERAL NOTE
Construction Signs
1. Sign Borders - All signs shall have borders conforming to the sizes and spacing as shown below:
a. 30" x 30" Sign - 3/4" Border, 1/2" Space from sign edge.
b. 2' x 5' Sign - 3/4" Border, 3/4" Space from sign edge.
c. 3' x 4' Sign - 3/4" Border, 1/2" Space from sign edge.
d. 4' x 4' Sign - 1 1/4" Border, 3/4" Space from sign edge.

A



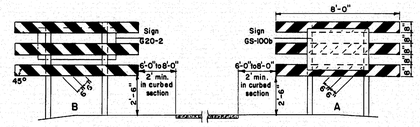
CONSTRUCTION SIGNS

B

GENERAL NOTES - BARRICADES
1. Unless otherwise designated, sign designation letters shall refer to the "Manual of Uniform Traffic Control Devices for Streets and Highways," published by the U.S. Department of Transportation, Federal Highway Administration, 1971.
2. White stripes shall be of silver reflective sheeting bonded to 0.019 minimum gauge aluminum, 16 minimum gauge galvanized steel, or 1/4" plywood. Individual white sheets may be attached to a black or orange painted background to form the black or orange and white stripes. At the Contractor's option the reflective sheeting and backing may extend the full width of the barricade with an opaque film or paint applied to form the stripes.
3. All signs shall be of reflective sheeting on 5/8" thick plywood. The plywood shall conform to subsection 712.25, Maine State Highway Commission, Standard Specifications, June 1968.
4. Pressure sensitive reflective sheeting will be an acceptable alternate to the reflective sheeting required by Maine State Highway Commission, Standard Specifications.

NOTES - PORTABLE BARRICADES
1. Lumber sizes for portable barricades shall be 2" x 8" except posts which shall be 4" x 4" (nominal sizes).
2. The detour sign shall be an oversized M4-10 sign with a demountable "DETOUR" message which shall be made of screened reflective sheeting on 1/4" plywood, masonite, sheet steel or sheet aluminum.
3. Hazard markers shall be attached to the barricade with a bolt assembly of steel cadmium plated 5/16" bolt, lock washer and vandal resistant nuts.
4. When two W1-6 signs are required, R11-2, R11-3, or R11-4 signs shall be omitted.
5. Flashing lights housings shall be mounted to permit rotating in a vertical axis to allow for adjustment to face oncoming traffic.
6. Location of electric service and meter to be determined after the power source has been located.

NOTES-WING BARRICADES
1. Lumber sizes for wing barricades shall be 1" x 8" except posts which shall be 4" x 4" (nominal sizes).
2. Wing barricades will not be required unless specifically called for in the special provisions.
3. Location of signs and barricades will be determined by the Engineer.

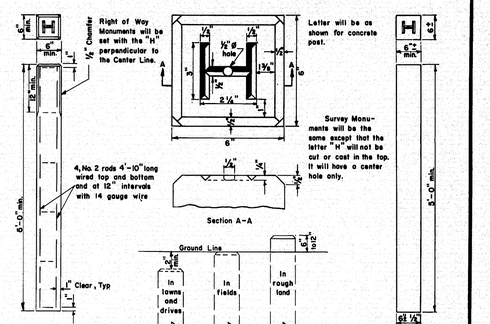


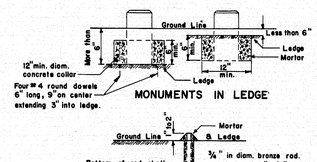
WING BARRICADES

C

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			

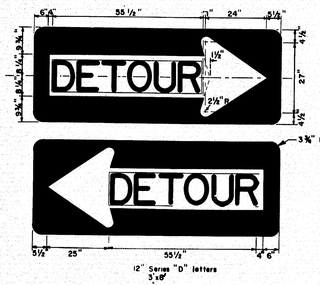
RIGHT OF WAY & SURVEY MONUMENTS





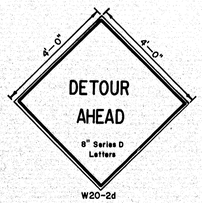
BRONZE PIN MARKERS

D



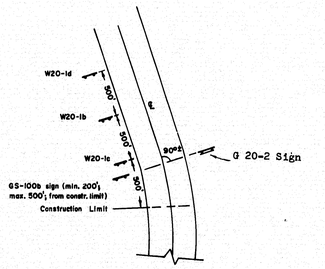
Detachable DETOUR message shall have 1" clearance from letters to edge on all sides.

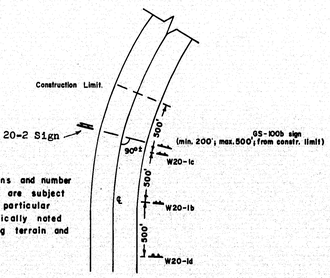
DETOUR SIGN
M 4-(L)



E

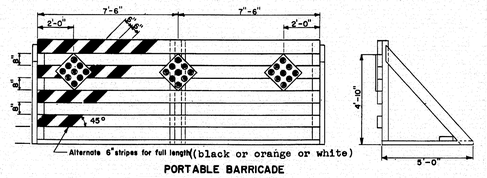
STANDARD SIGN LOCATIONS

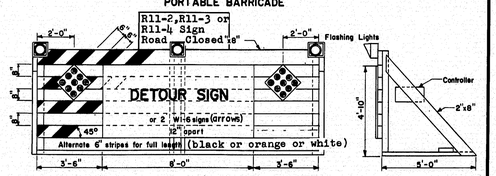


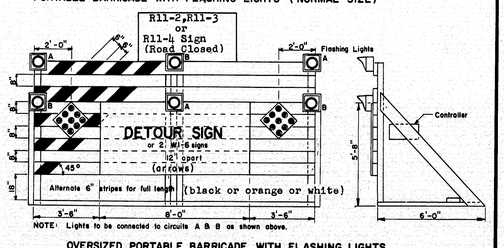


NOTE:
Standard locations and number of signs required are subject to variation on particular projects if specifically noted due to surrounding terrain and land use.

F

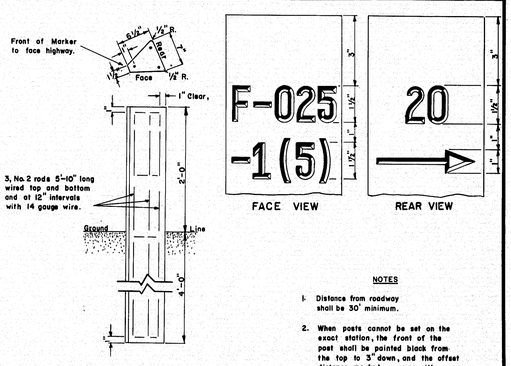






BARRICADES

G



NOTES
1. Distance from roadway shall be 30' minimum.
2. When posts cannot be set on the exact station, the front of the post shall be painted black from the top to 3' down, and the offset distance marked on rear with an arrow pointing in direction of beginning or end of project.
3. All markings to be 1/4" deep and 3/16" wide.

PROJECT MARKERS

H

REVISION	
PLATE B	12-21-70
PLATES B, G & H	12-15-71

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

BARRICADES
WARNING SIGNS
MONUMENTS
PROJECT MARKERS

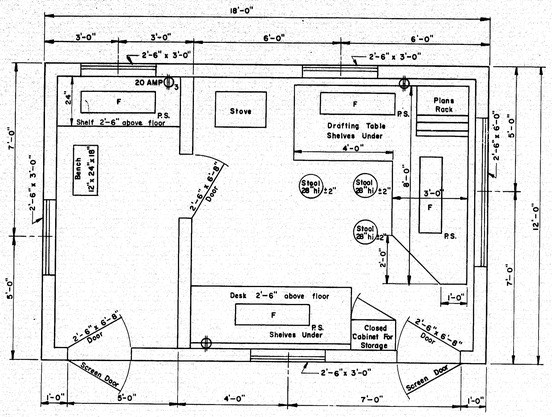
AUG. 1969

11

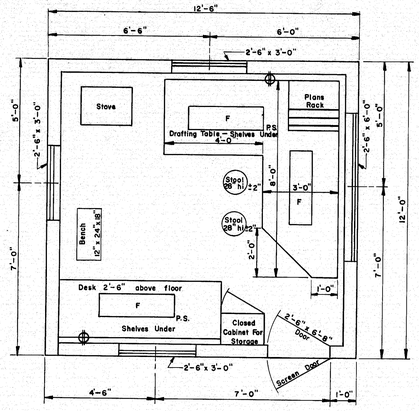
152-85

touraine paints TRUFLEX ☆ SILKY ☆ TRIPLE WHITE ☆ RYPLEX

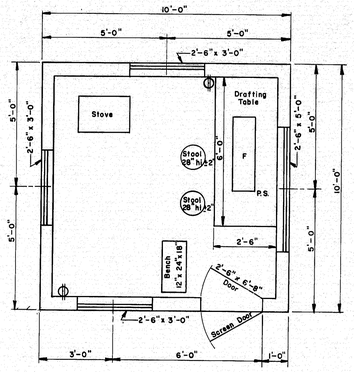
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I 95-5(6)94	35	55



FLOOR PLAN
TYPE "A"



FLOOR PLAN
TYPE "B"

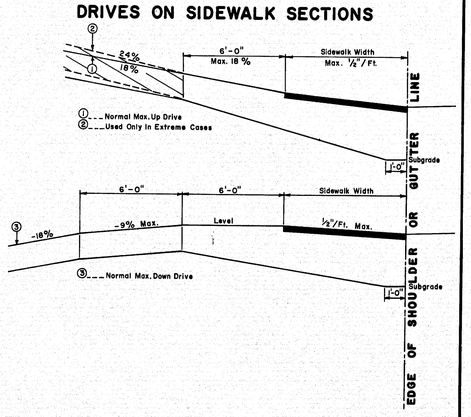


FLOOR PLAN
TYPE "C"

GENERAL NOTES

1. Drafting table shall be 3'-4" high at front edge and placed 2" from studs to allow prints to hang down behind table when in use.
2. Shelves under desk shall be constructed to received 11½" x 14" x 25" transfiles.
3. Windows shall be double hung.
4. Stovepipe shall not be in direct contact with combustible material ; the pipe shall be surrounded with at least 6" of fireproof material.
5. Continuous 110 volt 60 cycle electric service shall be supplied.
6. The engineer may rearrange the items shown on the plan views during construction of the field office.
7. FURNISHINGS TO BE SUPPLIED :
   - 2 Straight back chairs for types A and B
   - 1 Bench for types A, B & C
   - 3 Stool for type A
   - 2 Stools for types B & C
8. SYMBOLS :
   - F — Florescent lights (2 light , rapid start 48" strips and 40 watt bulbs.)
   - P.S. — Pull switch.
   - Duplex wall outlet — 15 amp unless otherwise noted.
   - $\oplus_3$ Triplex Wall Outlet
9. For the Type "A" Field Office one clean 55 gal. drum shall be supplied , installed on a suitable rack and equipped with a spigot suitable for drawing off water. The drum shall be furished with water at all times.

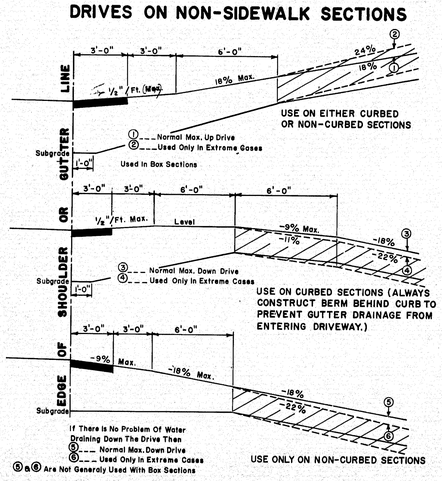
DRIVES ON SIDEWALK SECTIONS



GENERAL NOTES
1. The sidewalk width shall be paved in all cases.
2. All residential or commercial drives over 10% to be paved.

NOTES ON MAXIMUM DRIVEWAY PROFILES
1. These profiles are a guide for the majority of cases, but should be field checked when the main line grade is steep (4% to 6% or greater) or the angle of approach to the drive is unusual.
2. Generally the majority of drives on a project will be built with flatter profiles than these maximum cases.
3. When grading drives which are flatter than the maximum profiles the following rule of thumb should be used, do not exceed a grade % change of more than 9% in a 6 foot increment of driveway length. This applies to both up and down profiles.

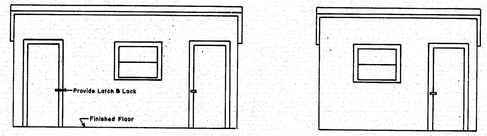
DRIVES ON NON-SIDEWALK SECTIONS



⑤ & ⑥ Are Not Generaly Used With Box Sections

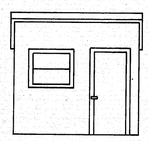
GENERAL NOTES
1. The first 3' shown as pavement shall be paved only when abuting a paved area.
2. All residential or commercial drives over 10% to be paved.

NOTES ON MAXIMUM DRIVEWAY PROFILES
1. These profiles are a guide for the majority of cases, but should be field checked when the main line grade is steep (4% to 6% or greater) or the angle of approach to the drive is unusual.
2. Generally the majority of drives on a project will be built with flatter profiles than these maximum cases.
3. When grading drives which are flatter than the maximum profiles the following rule of thumb should be used, do not exceed a grade % change of more than 9% in a 6 foot increment of driveway length. This applies to both up and down profiles.

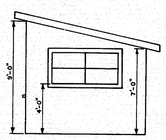


FRONT ELEVATION
TYPE "A"

FRONT ELEVATION
TYPE "B"



FRONT ELEVATION
TYPE "C"



SIDE ELEVATION
TYPES "A" "B" & "C"

REVISIONS		

MAINE STATE HIGHWAY COMMISSION
AUGUSTA , MAINE

STANDARD DETAILS

DRIVEWAY DETAILS
FIELD OFFICES
TESTING LABORATORY

AUG. 1969 (12)

152-86

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