B.P.R. REG. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)180	1	35

STATE OF MAINE
STATE HIGHWAY COMMISSION

PLAN AND PROFILE
STATE HIGHWAY #95
BANGOR
PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. I-95-8(6)180
INTERSTATE #95 OVER STILLWATER AVENUE
TOTAL LENGTH 0.142 MILES

SCALES
- PLAN 1 IN. = 50 FT. or as Noted
- PROFILE HOR. 1 IN. = 50 FT.
- PROFILE VER. 1 IN. = 5 FT.
- CROSS SECTIONS 1 IN. = 10 FT.

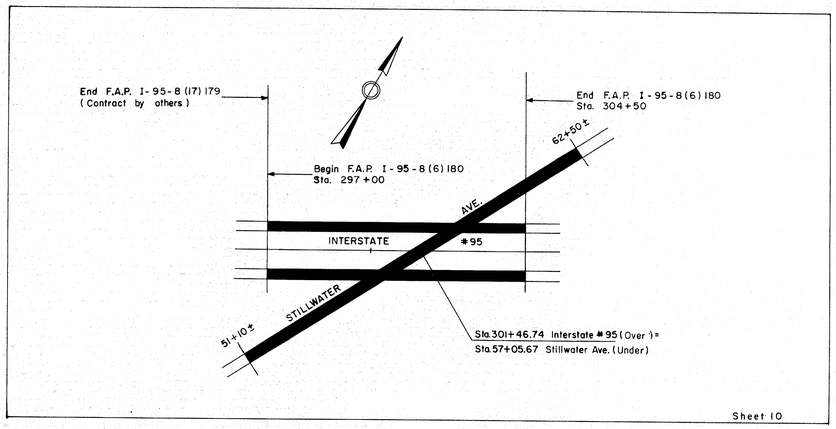
INDEX OF SHEETS

AS BUILT
1960

CONVENTIONAL SIGNS

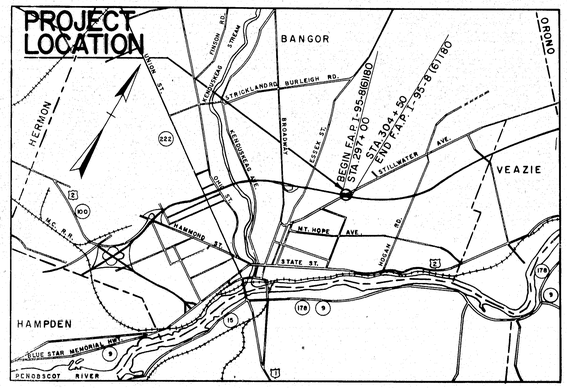
STATE OR NATIONAL LINE		SURVEY LINE	
COUNTY LINE		CULVERT	
TOWN LINE		DROP INLET	
UNFENCED PROPERTY		TROLLEY POLE	
FENCE		POWER POLE	
RIGHT OF WAY LINE		TEL. POLE	
TRAVELED WAY		MARSH	
RAILROAD		TREES	
RETAINING WALL		STONE WALL	

All work contemplated under this contract to be governed by and in conformity with the Standard Specifications, Highways and Bridges, revision of Jan. 1956, except as modified on these plans and by the Special Provisions.



Sheet 10

LAYOUT PLAN
Scale: 1" = 200'



A PORTION OF PENOBSCOT COUNTY
APPROX. SCALE: 1 IN. = 1 MILE

	INTERSTATE	STILLWATER AVE
A. D.T. (1960) =	4675	630
A. D.T. (1980) =	7970	855
D. H.V. (1980) =	1200	86
D. (1980) =	65%	65%
T. (1980) =	15%	8%
V. (M.P.H.) =	60	30

CONSULTING ENGINEERS
THE CLARKESON ENGINEERING COMPANY, INC.
BOSTON MASS.
John Clarkeson
CONSULTING ENGINEER — 7/21/58 DATE

APPROVED:
MAINE STATE HIGHWAY COMMISSION
Dana W. Ellison
CHAIRMAN
CHIEF ENGINEER

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
REGION 1
APPROVED:
DIVISION ENGINEER — DATE

78-1

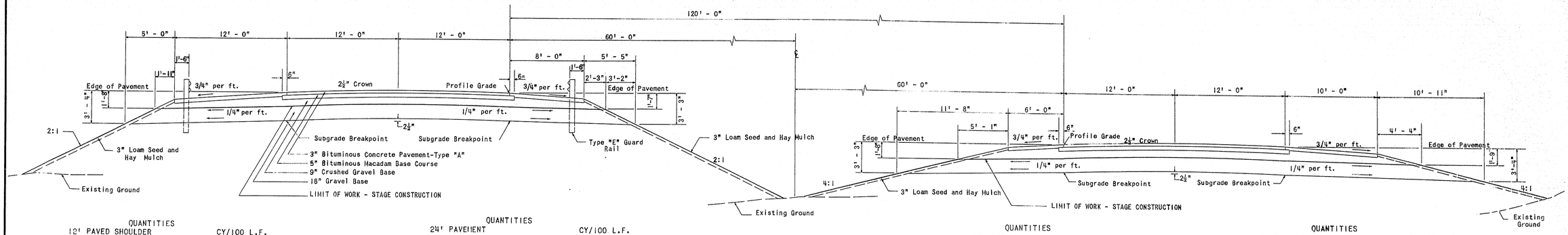
0 1 2 3 4 5 INCHES

GRADING CONTRACT - STAGE CONSTRUCTION

Interstate #95 to be constructed to top of Gravel Base only unless otherwise indicated or specified.

B.P.R. REG.NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	2	35

BANGOR INTERSTATE



QUANTITIES

12' PAVED SHOULDER	CY/100 L.F.
4" Bituminous Macadam Surface	14.66
Crushed Gravel Base (to 2:1 Slope)	37.92
18" Gravel Base (to 2:1 Slope)	83.08

QUANTITIES

24' PAVEMENT	CY/100 L.F.
3" Bituminous Concrete	22.22
5" Bituminous Macadam Base Course	38.58
9" Crushed Gravel Base	66.67
18" Gravel Base	133.33

INTERSTATE #95
TYPICAL SECTION - NORMAL
Scale: 1" = 5' - 0"

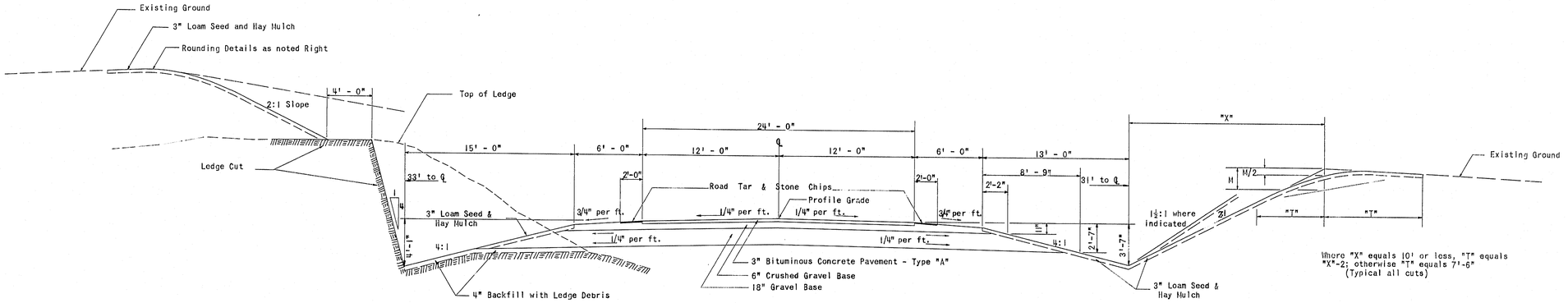
QUANTITIES

8' PAVED SHOULDER	CY/100 L.F.
4" Bituminous Macadam Surface	9.72
Crushed Gravel Base to Slope	29.23
18" Gravel Base to Slope	62.80

6' PAVED SHOULDER	CY/100 L.F.
4" Bituminous Macadam Surface	7.25
Crushed Gravel Base to Slope	27.46
18" Gravel Base to Slope	73.74

QUANTITIES

10' PAVED SHOULDER	CY/100 L.F.
4" Bituminous Macadam Surface	12.19
Crushed Gravel Base to Slope	36.33
18" Gravel Base to Slope	91.92



STILLWATER AVENUE
TYPICAL SECTION
Scale: 1" = 5'-0"

24' PAVEMENT	C.Y./100 L.F.
3" Bituminous Concrete Surface	22.22
6" Crushed Gravel Base	44.44
18" Gravel Base	133.33
6' SHOULDER	
Crushed Gravel (to 4:1 Slope)	14.40
Gravel Base (to 4:1 Slope)	57.57

NOTES:
1. Use 4:1 Slopes for fills less than 10' deep.
2. Use 2:1 Slopes for fills of depth of 10' or over.
3. Bituminous Concrete Surface - Type "A" to consist of 1" surface and 2" binder.
4. Interstate Highway to be constructed to top of gravel base only, unless otherwise indicated.

THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

TYPICAL SECTIONS

78-2

0 1 2 3 4 5 INCHES

B. P. R. REG. NO	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	3	35

BANGOR INTERSTATE

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	
202-5	Removing Trees (9" to 24")	13	Each	15
202-6	Removing Trees (over 24")	1	Each	1
203-9	Earth Excavation	11,900	C.Y.	14,978
203-10	Rock Excavation	6,400	C.Y.	4394
204-10	Structural Earth Excavation - Drainage	25	C.Y.	
204-11	Structural Rock Excavation - Drainage	20	C.Y.	
204-12	Structural Earth Excavation, Abuts. and Retaining Walls	240	C.Y.	
204-13	Structural Rock Excavation, Abuts. and Retaining Walls	20	C.Y.	
204-14	Structural Earth Excavation - Piers	160	C.Y.	
204-15	Structural Rock Excavation - Piers	120	C.Y.	
204-18	Structural Rock Excavation-Fencing	100	L.F.	
205-8	Common Borrow	23,500	C.Y.	
205-9	Granular Borrow	7,600	C.Y.	
302-7	Gravel Base Course - In Place Measurement	5,790	C.Y.	
302-9	Crushed Gravel Base Course - In Place Measurement	900	C.Y.	
308-5	Overhaul (In Place Measure)	32,000	Yd. Mi.	
308-6	Overhaul (Pit Measure)	43,200	Yd. Mi.	
309-5	Stripping Pits	1,350	C.Y.	0
310-6	Sprinkling	50	Units	0
311-6	Calcium Chloride	4	Tons	
401-11	Gravel Surface Course	10	C.Y.	0
402-16	Stone Chips	15	Tons	21.08
404-28	Bituminous Concrete Surface Course, Type "A"	540	Tons	513.14
501-7	Road Tar	540	Gals.	
602-11	15 Inch Asphalt Coated Corrugated Metal Pipe	70	L.F.	
602-14	24 Inch Asphalt Coated Corrugated Metal Pipe	50	L.F.	
603-13	24 Inch Reinforced Concrete Pipe	40	L.F.	
607-7	Metal Endwalls for 24 Inch Pipe	1	Each	
701-33	Portland Cement Concrete, Abuts. and Retaining Walls	550	C.Y.	
701-35	Portland Cement Concrete, Piers	290	C.Y.	318.85
701-40	Portland Cement Concrete, Roadway & S.W. Slabs on St. Bridges	470	C.Y.	504.56
701-47	Portland Cement	1,970	C.Y.	
702-103	Structural Steel, Fabricated and Delivered	727,900	Lbs.	
702-104	Structural Steel, Erection	727,900	Lbs.	
703-9	Bronze or Copper-Alloy Bearing & Expansion Plates, Delivered	1,350	Lbs.	
703-10	Bronze or Copper-Alloy Bearing & Expansion Plates, Placing	1,350	Lbs.	
705-13	Reinforcing Steel, Delivered	225,000	Lbs.	
705-14	Reinforcing Steel, Placing	225,000	Lbs.	
708-16	Steel H-Beam Piles 42 lbs. per ft.	1,000	L.S.	
709-5	Bridge Drainage	1	L.S.	
710-5	Shear Connectors, Delivered and Placed	1	L.S.	
804-6	French Drains	210	C.Y.	
807-15	Aluminum Railing	950	L.F.	
906-18	Fencing Metal Posts	2,470	L.F.	2035
907-10	Hand Laid Rip-Rap	10	C.Y.	
908-8	Loam Excavation	3,500	C.Y.	
909-7	Sodding	700	S.Y.	
910-10	Seeding - Parkway Mixture	90	Units	
912-6	Hay Mulch	10	Tons	
914-6	Project Markers	1	Each	
917-6	Traffic Officers	200	M. Hrs.	
926-7	Removal or Razing Buildings No. 1	1	Each	
926-8	Removal or Razing Buildings No. 2	1	Each	
926-9	Removal or Razing Buildings No. 3	1	Each	
926-10	Removal or Razing Buildings No. 4	1	Each	1
929-10	Portable Barricade	2	Each	
930-13	Portable Barricade with Flashing Lights	2	Each	
933-6	Slope Paving for Bridges	1,380	S.Y.	140
915-6	Right of Way Monuments	2	Each	
	Gravel For Foundations	30	C.Y.	

REMOVING TREES

STATION	SIDE	REMARK
Stillwater Ave.		
53 + 40	Rt. - 23'	18" Elm
53 + 75	Rt. - 20'	15" Elm
56 + 00	Rt. - 28'	22" Elm
56 + 22	Rt. - 26'	22" Elm
56 + 95	Rt. - 21'	28" Elm
59 + 34	Rt. - 18'	22" Elm
59 + 57	Rt. - 19'	16" Elm
60 + 00	Rt. - 19'	20" Elm
60 + 24	Rt. - 22'	16" Elm
60 + 57	Rt. - 23'	13" Elm
61 + 40	Rt. - 26'	12" Elm
61 + 63	Rt. - 26'	12" Elm
61 + 87	Rt. - 28'	12" Elm
62 + 30	Rt. - 29'	14" Elm
60 + 53	[illegible] - 30'	18" Elm
60 + [illegible]	Lt. - [illegible]	16" Elm

GRAVEL BASE COURSE

STATION TO STATION	DESCRIPTION
298 + 50 to 301 + 50 Lt.	18" Gravel
296 + 50 to 299 + 05 Rt.	18" Gravel Base
301 + 50 to 304 + 00 Rt.	18" Gravel Base
Stillwater Avenue	18" Gravel Base

DRIVEWAYS

STATION	SIDE	DESCRIPTION
Stillwater Ave.		
61 + 00	Left	~~1" Gravel Surface Course with~~ a ~~15"~~ 9" Gravel Base.

FENCING - METAL POSTS

STATION TO STATION	SIDE	LENGTH	REMARK
297 + 00 to 297 + 85	Rt.	85'	
52 + 93 to 54 + 18	Lt.	125'	Stillwater Ave.
~~298 + 288~~	~~Rt.~~	~~40'~~	
56 + 10 to 53 + 93	Rt.	217'	Stillwater Ave.
299 + 04 to 304 + 50	Rt.	546'	
297 + 00 to 303 + 93	Lt.	693'	
60 + 20 to ~~58 + 40~~	Lt.	180'	Stillwater Ave.
~~302 + 40 to 301 + 60~~	~~Lt.~~	~~80'~~	
59 + 80 to 60 + 00	Rt.	40'	Stillwater Ave.
~~60 + 00 to 61 + 20~~	~~Rt.~~	~~120'~~	~~" "~~
58 + 18 to 56 + 73	Lt.	155'	" "
57 + 16 to 58 + 98	Rt.	182'	" "

LOAM EXCAVATION

STATION TO STATION	EST. DEPTH	AV. WIDTH	LENGTH
~~297 + 50~~ to 302 + 00 Lt.	~~1~~	110 200	450' 400'
297 + 00 to 305 + 00 Rt.	1	60	750'

PORTABLE BARRICADES

STATION	NO.	REMARK
Stillwater Ave.		
North	1	
South	1	
North	1	With Flashing Lights
South	1	" " "

SODDING

STATION TO STATION	SIDE	REMARK
297 + 00 to 300 + 00	℄	
~~299 + 90~~ to 302 + ~~10~~	Lt.	
302 + 90 to 304 + 50	℄	
Stillwater Ave.		
61 + ~~10~~ to 61 + 80 62+03	Lt.	
~~61 + 00~~ to 62 + 30	Rt.	
59+50 ~~60 + 00~~ to 60 + 50	~~Rt.~~ Lt.	

RIGHT OF WAY MONUMENTS

STATION	LT.	RT.	NO.	REMARK
300 + 00		200	1	
303 + 00	200		1	

ROADWAY CULVERTS

STATION	SIZE	ACCMP LEFT	RCP	ACCMP RIGHT	PIPE CONN.	METAL E.W.
Stillwater Ave.						
59 + 50	24"	10'	40'	8'	1	1
60 + 50 to 61 + 14	15"	64'				

SUMMARY OF CLASSIFIED EXCAVATION AND BORROW

Total Earth Excavation from Cross Sections	11,622	C.Y.
Estimated Earth Shrinkage Factor (-15%)	1,743	
Available Fill from Earth Excavation	9,879	C.Y.
Total Rock Excavation from Cross Sections	6,336	C.Y.
Estimated Rock Swellage Factor (+40%)	2,534	
Available Fill from Rock Excavation	8,870	C.Y.
Earth Fill Required from Cross Sections	43,262	C.Y.
Plus Loam Excavation in Fills	3,500	
Sub-total	46,762	C.Y.
Less Available Fill from Rock Excavation	8,870	
Sub-total	37,892	C.Y.
20% Granular Borrow	7,578	
Earth Fill Required	30,314	C.Y.
Earth Fill Required	30,314	C.Y.
Available Earth Fill	9,879	
Borrow	20,435	c.y.

Common Borrow 20435 + 3065* = 23,500 C.Y.
Granular Borrow = 7,600 C.Y.
Earth Excavation 11622 + 278* = 11,900 C.Y.
Rock Excavation 6,400 C.Y.
* Undetermined Origin

0 1 2 3 4 5 INCHES

CATCH BASIN
TYPE "A"

TRAPS SIMILAR TO THOSE SHOWN FOR TYPE "B" CATCH BASIN SHALL BE USED IF ORDERED.

GRATE 29½" X 29½" X 1½"

VARIABLE, DEPENDS ON LOCAL CONDITIONS.

TO BE PLASTERED WITH CEMENT MORTAR

CONCRETE

OUTLET PIPE

CONCRETE CAP

TO BE CONSTRUCTED OF PORTLAND CEMENT BLOCKS, BRICK OR STONE MASONRY.

CONCRETE BASE

CATCH BASIN
TYPE "D"

½" ϕ BARS 3'-1" LONG

½" ϕ BARS 1'-5" LONG

DIAMETER "D"	DEPTH "A"
12"	7"
15"	8"
18"	10"

CONCRETE CAP

OPEN THROAT

¾" ϕ THROAT BARS

TO BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE, PORTLAND CEMENT BLOCKS, BRICK OR STONE MASONRY

TO BE PLASTERED WITH CEMENT MORTAR

CONCRETE BASE

EYE BOLTS & RINGS TO BE GALVANIZED IRON.

COVER IN TWO PARTS

EYE BOLT & RING ¾" ϕ

DROP INLET

TO BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE

TYPE A

GRATE 29½" X 29½" X 1½"

VARIABLE, DEPENDS ON LOCAL CONDITIONS. HEIGHT DEPENDS ON DEPTH OF OUTLET PIPE

OUTLET PIPE

TYPE B

¾" ϕ BARS 3'-9" LONG

½" ϕ BARS 1'-9" LONG

OPEN THROAT

¾" ϕ THROAT BARS

OUTLET PIPE

VARIABLE

COVER IN TWO PARTS

EYE BOLT & RING ¾" ϕ

EYE BOLTS & RINGS TO BE GALVANIZED IRON.

SECT. A-A

SECT. B-B

BANGOR INTERSTATE

B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-8(6)	4	35

CATCH BASIN
TYPE "B"

SOLID CAST IRON CORRUGATED TOP

END VIEW

ELEVATION

DETAIL OF TRAP

TO BE USED WITH COMBINED SYSTEM

OTHER TYPES MAY BE USED IF APPROVED BY THE ENGINEER

⅝" BRASS ROD 1⅜" LONG

RISE OF 12" IN 4 FT.

4 THROAT BARS ¾" X 12"

TO BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE, PORTLAND CEMENT BLOCKS, BRICK OR STONE MASONRY

END VIEW WITH HOOD AND CLAPPER REMOVED

SECTION THROUGH CENTER

BRASS PIN

CASTING "A"

CASTING "A" & CLAPPER

NOTE

TRAPS SIMILAR TO THOSE SHOWN FOR TYPE "B" CATCH BASIN SHALL BE USED FOR ANY CATCH BASIN WHEN REQUIRED.

CATCH BASIN
TYPE "E"

TO BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE, PORTLAND CEMENT BLOCKS, BRICK OR STONE MASONRY

SECTION ON ℄

END VIEW

TO BE PLASTERED WITH CEMENT MORTAR

OUTLET PIPE

CONCRETE BASE

CATCH BASIN FRAME AND COVER TO BE MACHINED TO A SMOOTH FITTING

BARRED COVER

FRAME

MANHOLES

VITRIFIED CLAY CHANNEL PIPE

PLAN

¾" ϕ STEEL WITH PORTION INSIDE OF BRICKWORK TO BE FLATTENED.

STEPS

TO BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE, PORTLAND CEMENT BLOCKS, BRICK OR STONE MASONRY

STEPS TO BE STAGGERED

TYPE "A"

TYPE "B"

TO BE PLASTERED WITH CEMENT MORTAR

MANHOLE FRAME AND COVER TO BE MACHINED TO A SMOOTH FITTING

MANHOLE COVER

FRAME

CONCRETE BASE

CATCH BASIN
TYPE "C"

PITCH TO CONFORM WITH FINISHED SURFACE

TO BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE, PORTLAND CEMENT BLOCKS, BRICK OR STONE MASONRY

TO BE PLASTERED WITH CEMENT MORTAR

CONCRETE BASE

TOP OF GRATE

SECT A-A

GRANITE CURB INLET

BARRED COVER

CATCH BASIN FRAME AND COVER TO BE MACHINED TO A SMOOTH FITTING.

FOR DIMENSIONS SEE DETAIL OF COVER FOR TYPE "E" CATCH BASIN.

GRANITE CURB INLET

FRAME

UNDERDRAIN

EDGE OF PAVEMENT

SHOULDER

GRANULAR MATERIAL

TYPE "A"

TYPE "B"

6" PERFORATED ACCMP WITH PERFORATIONS DOWN.

TYPE "C"

12" TO 24" PERFORATED ACCMP WITH PERFORATIONS UP.

GRANULAR MATERIAL OR CRUSHED STONE.

SELECTED BACKFILL

NOTE:

ALL CATCH BASINS AND MANHOLES CONSTRUCTED OF PORTLAND CEMENT BLOCKS, BRICK OR STONE MASONRY SHALL BE CYLINDRICAL IN SHAPE.

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS

CATCH BASINS, MANHOLES, DROP INLETS AND UNDERDRAINS

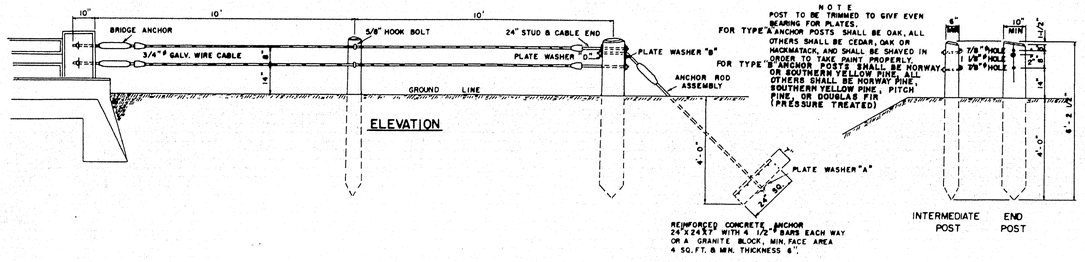
(1)

78-4

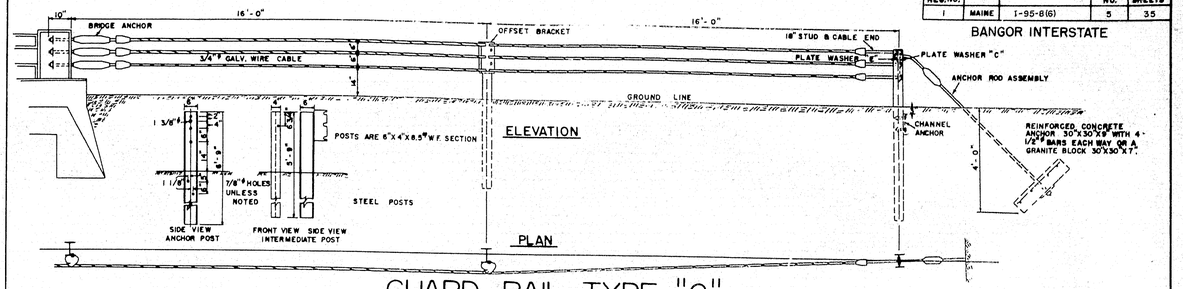
0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-8(6)	5	35

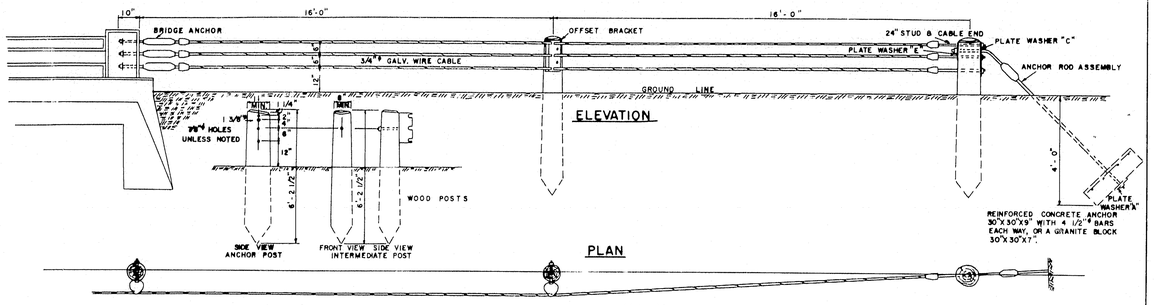
BANGOR INTERSTATE



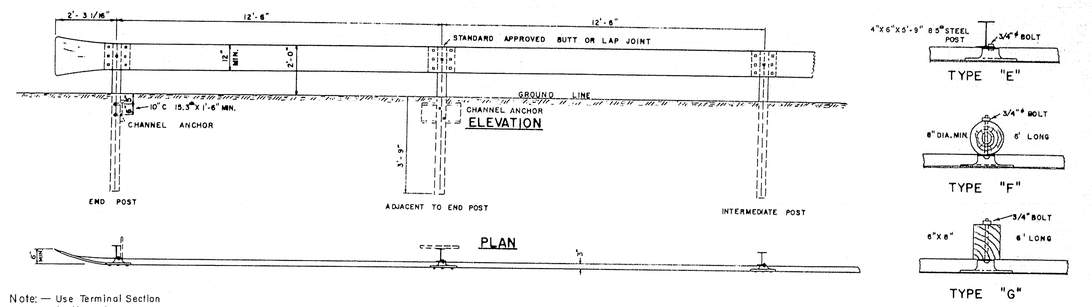
GUARD RAIL TYPE "A" & "B"



GUARD RAIL TYPE "C"

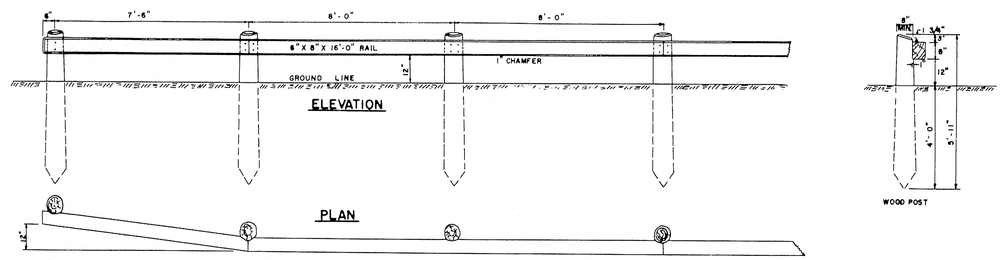


GUARD RAIL TYPE "D"

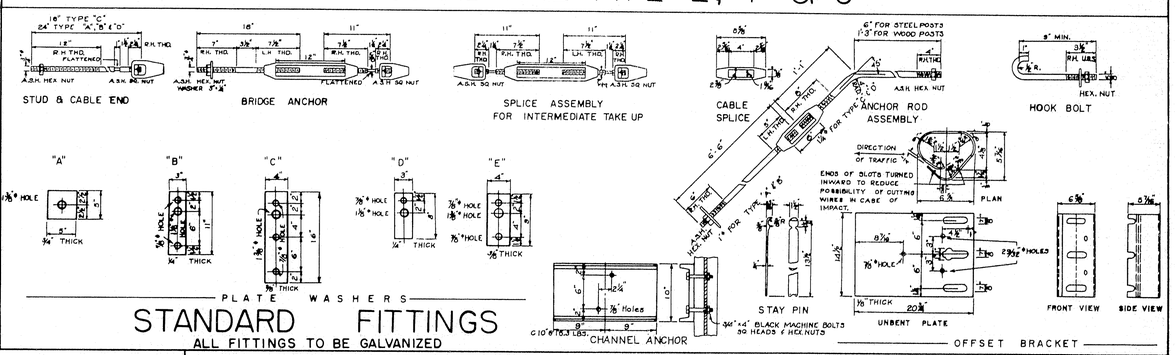


Note: — Use Terminal Section in lieu of end wing where indicated on quantity sheet

GUARD RAIL TYPE "E", "F" & "G"

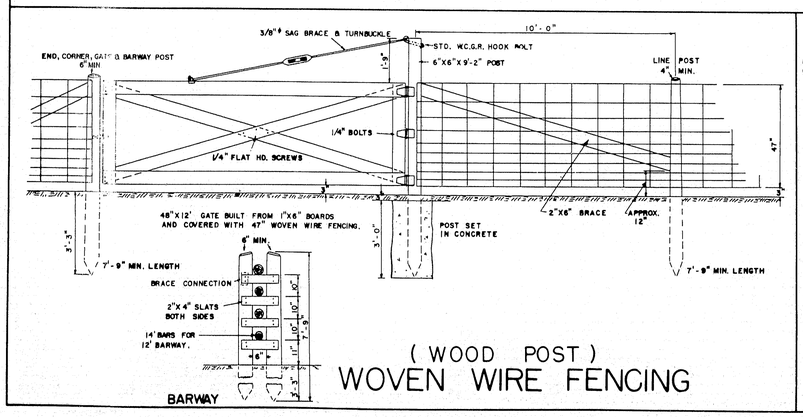


GUARD RAIL TYPE "H"

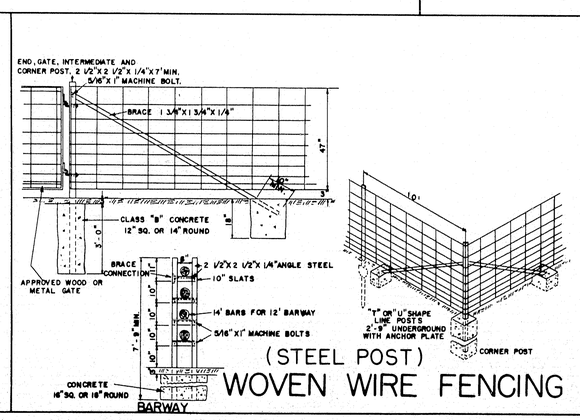


STANDARD FITTINGS

ALL FITTINGS TO BE GALVANIZED

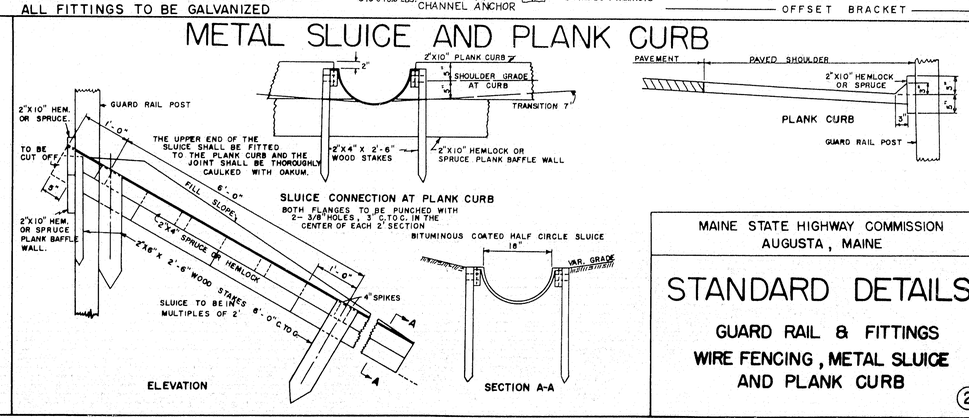


(WOOD POST) WOVEN WIRE FENCING



(STEEL POST) WOVEN WIRE FENCING

METAL SLUICE AND PLANK CURB



MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS

GUARD RAIL & FITTINGS
WIRE FENCING, METAL SLUICE AND PLANK CURB

(2)

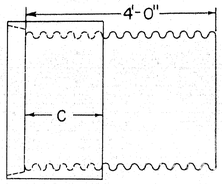
78-5

0 1 2 3 4 5 INCHES

BANGOR INTERSTATE

B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	6	35

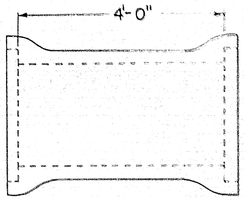
PIPE CONNECTIONS



GROOVE END COMBINATION
For 30" to 72", inclusive, diameter connection between concrete and metal pipe

"C" = 17" min. for sizes 30" to 48" incl.
"C" = 23" min. for sizes over 48"

Asphalt coated corrugated metal pipe shall conform to the latest standard specifications

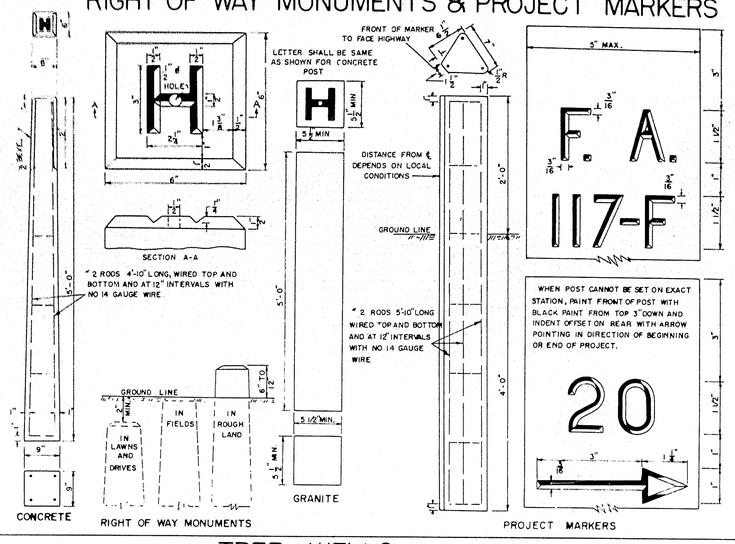


REINFORCED CONCRETE PIPE CONNECTOR DOUBLE BELL

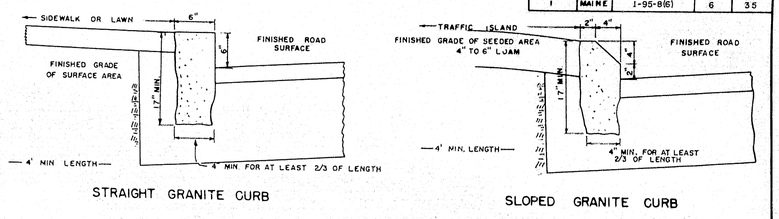
For 12" to 24", inclusive, diameter connection between concrete and metal pipe

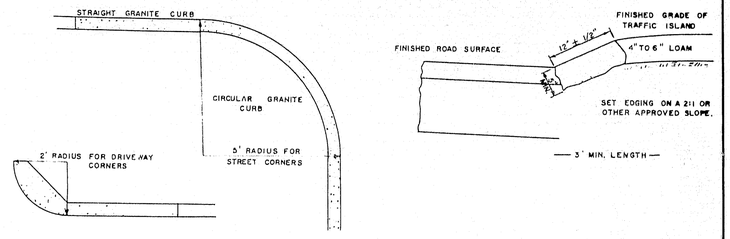
Reinforced concrete pipe shall conform to the latest standard specifications

RIGHT OF WAY MONUMENTS & PROJECT MARKERS

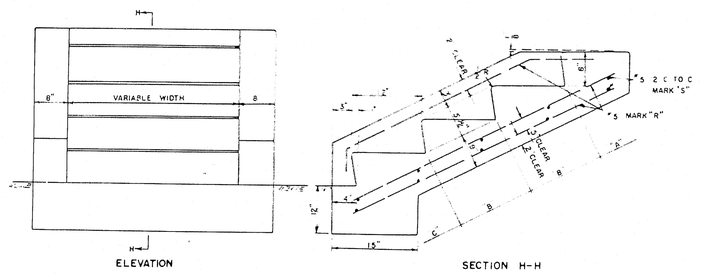


GRANITE CURB & EDGING





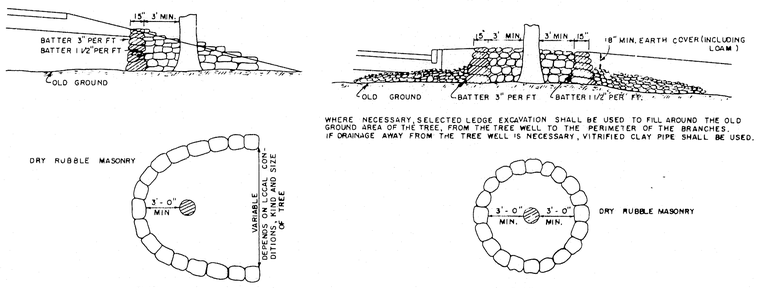
CONCRETE STEPS



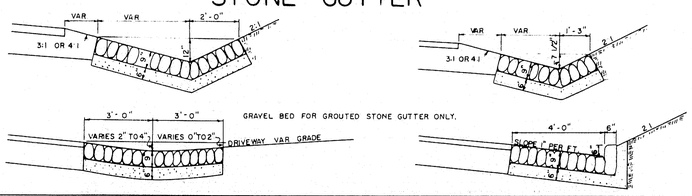
CONCRETE CLASS "A"		
SECTION	STEPS PER FT OF WIDTH	PARAPET EACH WALL
"A" HEADER	032 CU. YDS	042 CU. YDS
"B" EA. INTER ST.	040 CU. YDS	040 CU. YDS
"C" FOOTER	071 CU. YDS	065 CU. YDS

REINFORCING STEEL			
MARK	SIZE	NUMBER	LENGTH (EACH)
R	#5 1043 LBS PER FT.	3 EACH PARAPET 2 EACH FT. OF WIDTH	8" FOR "A" +13" FOR EACH "B" H16" FOR "C"
S	#5 1043 LBS PER FT.	2 FOR "A" 2 FOR EACH "B" 4 FOR "C"	6 EACH PARAPET H2" PER FT OF WIDTH

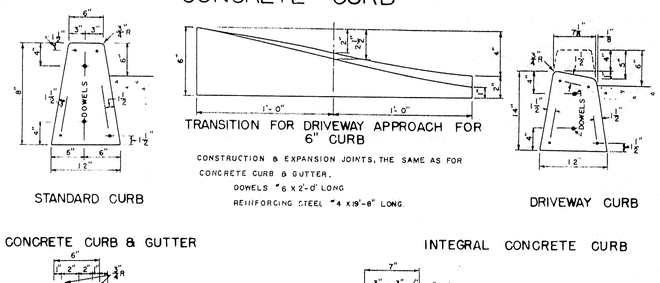
TREE WELLS



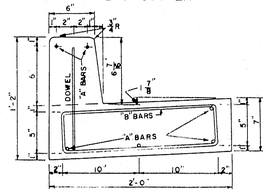
STONE GUTTER



CONCRETE CURB

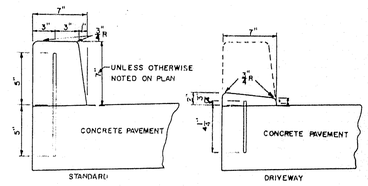


CONCRETE CURB & GUTTER



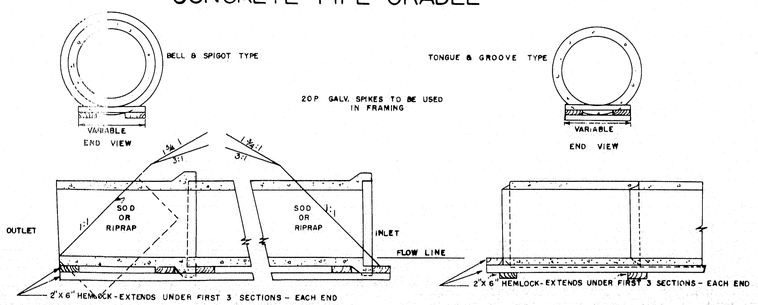
TO BE CONSTRUCTED IN 20' SECTIONS, CONSTRUCTION JOINTS TO BE PAINTED WITH BITUMINOUS MATERIAL, EXPANSION JOINTS EVERY 40' ½" THICK PREMOLDED MATERIAL SHALL BE PLACED IN EACH EXPANSION JOINT
"A" BARS #3 X 19'-8" LONG. "B" BARS #3 X 4'-6" LONG, PLACE A "B" BAR 1'-3" FROM EACH END OF THE SECTION AND THEN SPACE THEM 3'-6" C TO C. THE REST OF THE SECTION.
DOWELS #4 X 1'-0" LONG, SPACED 1'-0" C TO C.

INTEGRAL CONCRETE CURB

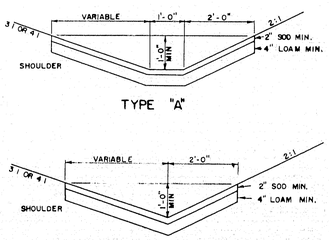


EXPANSION & DUMMY JOINTS IN CURB SHALL BE CONSTRUCTED AT SAME LOCATION AS EXPANSION & DUMMY JOINTS IN CONCRETE PAVEMENT.
DOWELS #4 SPACED 1'-0" C TO C. FIRST DOWEL TO BE PLACED 6" FROM END OF JOINT.

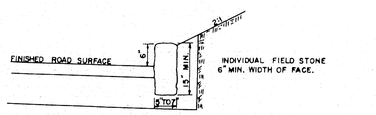
CONCRETE PIPE CRADLE



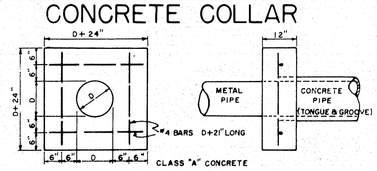
SODDED GUTTER



FIELD STONE CURB



CONCRETE COLLAR



MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS

MISCELLANEOUS ITEMS

(3)

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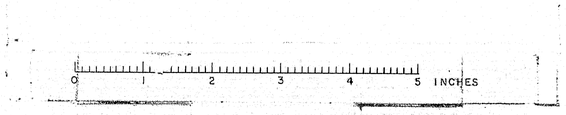
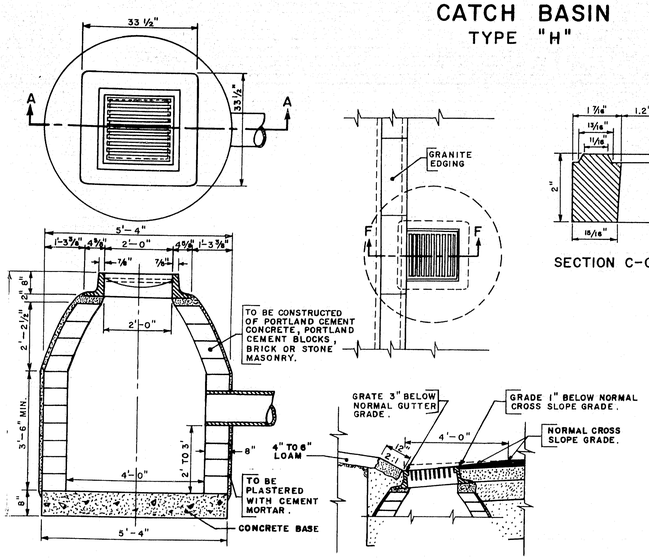


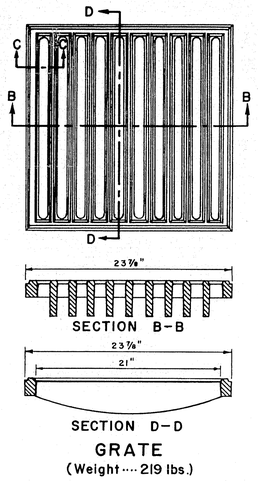
CATCH BASIN
TYPE "H"



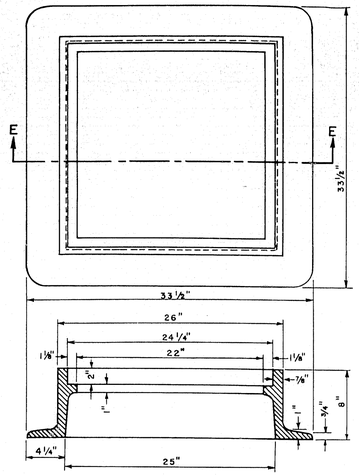
SECTION A-A

SECTION F-F

DETAIL OF CATCH BASIN IN GRANITE EDGING AREA



GRATE
(Weight···· 219 lbs.)



FRAME
(Weight···· 295 lbs.)

Note:

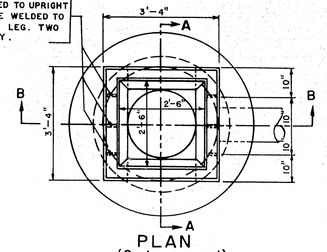
TYPE "H" CATCH BASIN IS TO BE USED IN GRANITE EDGING AREA. (When this type of catch basin is used with sloped or straight curb, the curb on gutter line shall be cut to fit flange.

CATCH BASIN
TYPE "F"

B.P.R. REGION NO	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	7	35

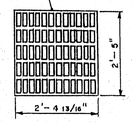
BANGOR INTERSTATE

THREE STRAP ANCHORS, TWO WELDED TO UPRIGHT LEG & ONE WELDED TO HORIZONTAL LEG. TWO SIDES ONLY.



PLAN
(Grate removed)

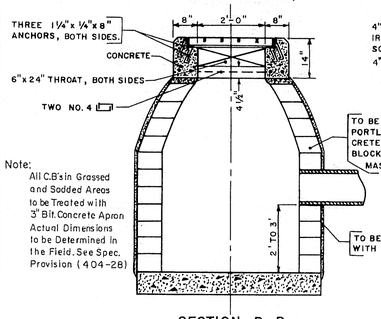
GRATING SHALL BE IRVING TYPE XD WITH 3 ½" x ¼" BEARING BARS & 1¾" x ¼" CROSS BARS OR APPROVED EQUAL RATED FOR H-20 WHEEL LOADS.



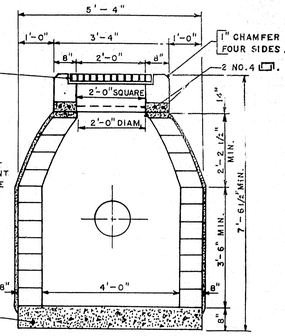
GRATE

FRAME & GRATE SHALL BE GALVANIZED AFTER FABRICATION.

GRATE WITH CAST IRON FRAME MAY BE USED IN LIEU OF CONCRETE AS SHOWN.



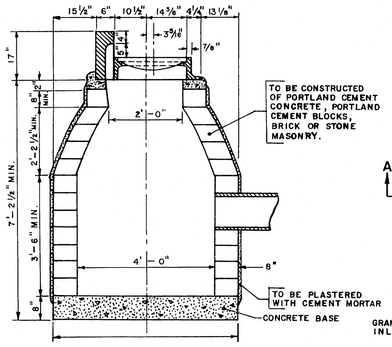
SECTION B-B



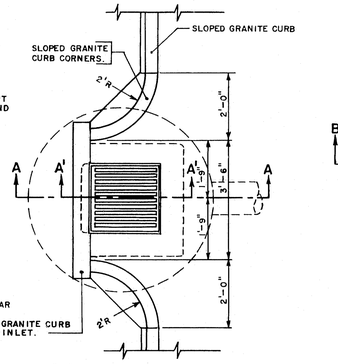
SECTION A-A

Note:
All C.B's in Grassed and Sodded Areas to be Treated with 3" Bit. Concrete Apron Actual Dimensions to be Determined in the Field. See Spec. Provision (404-28)

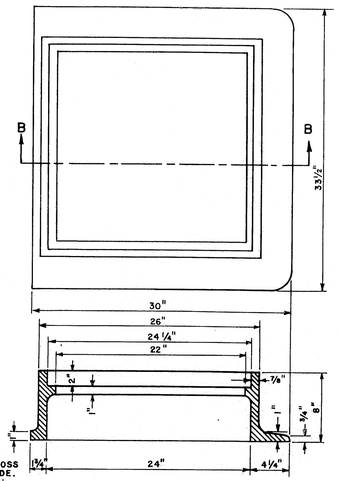
CATCH BASIN
TYPE "I"



SECTION A-A

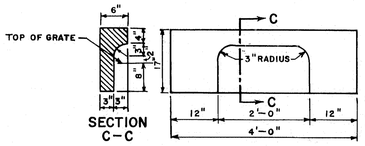


GRATE FOR TYPE "I" CATCH BASIN SHALL BE THE SAME AS THAT USED FOR TYPE "H" CATCH BASIN.



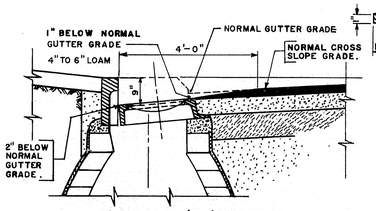
SECTION B-B

FRAME
(Weight···· 264 lbs.)



SECTION C-C

GRANITE CURB INLET



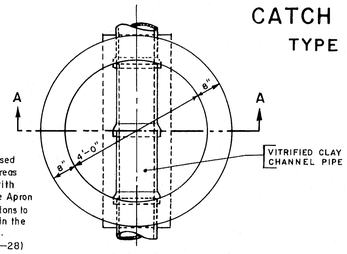
SECTION A'-A'

DETAIL OF CATCH BASIN IN SLOPED CURB AREA

Note:

TYPE "I" CATCH BASIN IS TO BE USED IN SLOPED CURB AREA. (This type may also be used in straight curb areas.)

CATCH BASIN
TYPE "G"

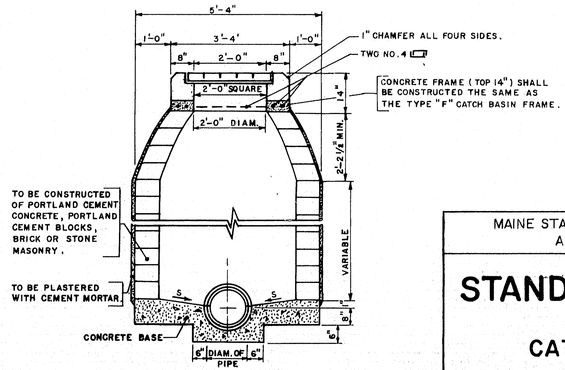


Note:
All C.B's in Grassed and Sodded Areas to be Treated with 3" Bit. Concrete Apron Actual Dimensions to be Determined in the Field. See Spec. Provision (404-28)

PLAN
(Grate and frame removed)

GRATE FOR TYPE "G" CATCH BASIN SHALL BE THE SAME AS THAT USED FOR TYPE "F" CATCH BASIN.

GRATE WITH CAST IRON FRAME MAY BE USED IN LIEU OF CONCRETE AS SHOWN.



CONCRETE FRAME (TOP 14") SHALL BE CONSTRUCTED THE SAME AS THE TYPE "F" CATCH BASIN FRAME.

SECTION A-A

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS

CATCH BASINS

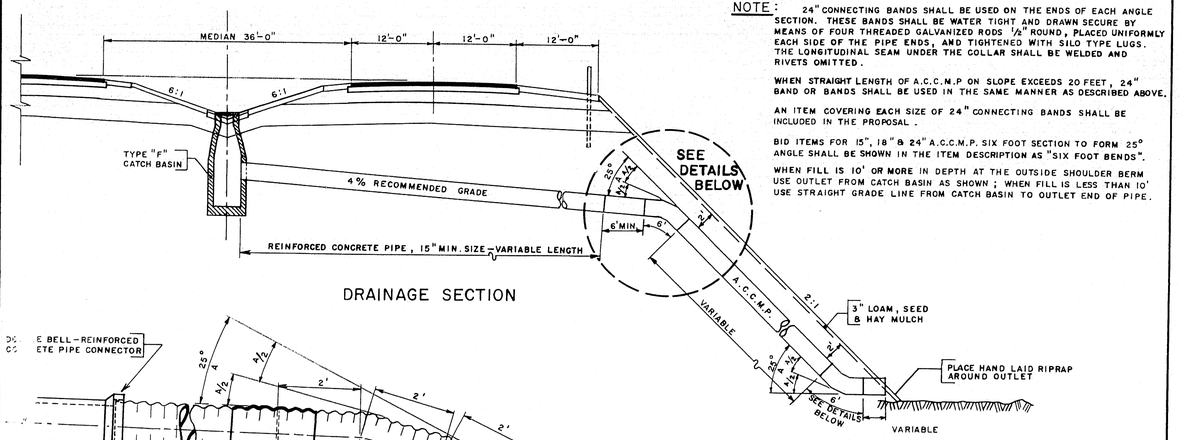
④

78-7

C. H. CO., NO. 3755

0 1 2 3 4 5 INCHES

BENDS AND BANDS for A.C.C.M.P. MEDIAN DRAINAGE



DRAINAGE SECTION

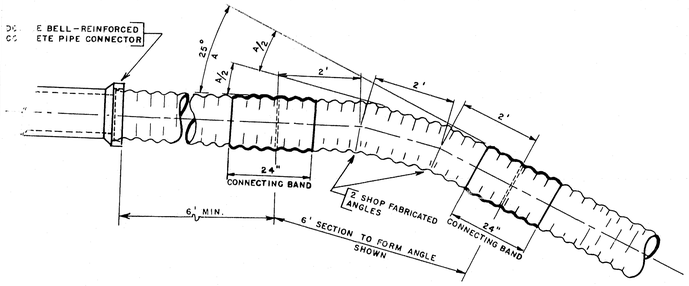
NOTE: 24" CONNECTING BANDS SHALL BE USED ON THE ENDS OF EACH ANGLE SECTION. THESE BANDS SHALL BE WATER TIGHT AND DRAWN SECURE BY MEANS OF FOUR THREADED GALVANIZED RODS 1/2" ROUND, PLACED UNIFORMLY EACH SIDE OF THE PIPE ENDS, AND TIGHTENED WITH SILO TYPE LUGS. THE LONGITUDINAL SEAM UNDER THE COLLAR SHALL BE WELDED AND RIVETS OMITTED.

WHEN STRAIGHT LENGTH OF A.C.C.M.P ON SLOPE EXCEEDS 20 FEET, 24" BAND OR BANDS SHALL BE USED IN THE SAME MANNER AS DESCRIBED ABOVE.

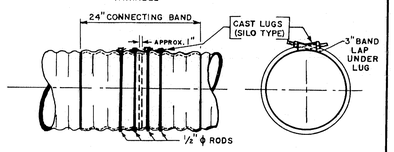
AN ITEM COVERING EACH SIZE OF 24" CONNECTING BANDS SHALL BE INCLUDED IN THE PROPOSAL.

BID ITEMS FOR 15", 18" & 24" A.C.C.M.P. SIX FOOT SECTION TO FORM 25° ANGLE SHALL BE SHOWN IN THE ITEM DESCRIPTION AS "SIX FOOT BENDS".

WHEN FILL IS 10' OR MORE IN DEPTH AT THE OUTSIDE SHOULDER BERM USE OUTLET FROM CATCH BASIN AS SHOWN; WHEN FILL IS LESS THAN 10' USE STRAIGHT GRADE LINE FROM CATCH BASIN TO OUTLET END OF PIPE.

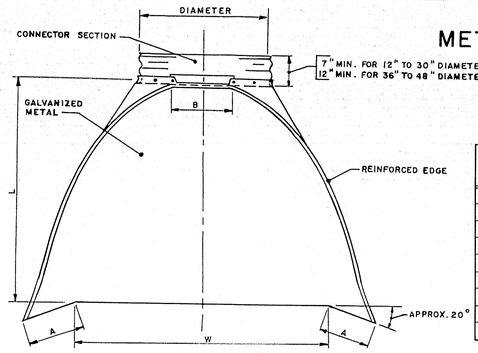


DETAIL OF SIX-FOOT BENDS



DETAIL OF 24" CONNECTING BANDS

METAL ENDWALLS



PLAN

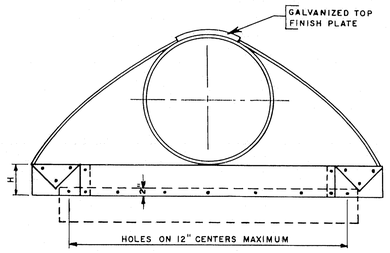
PIPE DIAM.	GAUGE	DIMENSIONS A 1" TOL.	B MAX.	H 1" TOL.	L 1½" TOL.	W 2" TOL.
12"	16	4¾"	6"	6"	21"	24"
15"	16	6"	8"	6"	26"	30"
18"	16	7"	9"	6"	31"	36"
21"	16	8¼"	11"	6"	36"	42"
24"	14	9⅛"	12"	6"	42"	48"
30"	14	12"	15"	7⅛"	52½"	60"
36"	12	14"	18"	9"	63"	72"
42"	12	16"	21"	10½"	73½"	84"

TOE PLATE TO BE PUNCHED TO MATCH HOLES IN SKIRT LIP. LENGTH OF TOE PLATE IS W+10" FOR 12" TO 30" DIAMETER PIPE, INCLUSIVE, AND W+22" FOR 36" TO 42" DIAMETER PIPE INCLUSIVE.

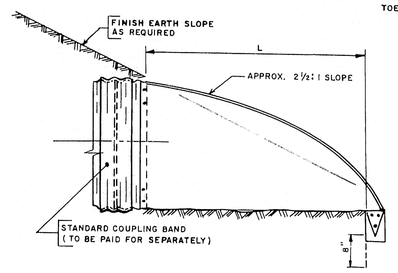
SKIRT SECTION FOR 12" TO 24" DIAMETER PIPE, INCLUSIVE, TO BE MADE IN ONE PIECE. SKIRT SECTION FOR 30" TO 48" DIAMETER PIPE MAY BE MADE FROM TWO SHEETS JOINED BY RIVETING OR BOLTING ON CENTERLINE.

CONNECTOR SECTION, CORNER PLATE AND TOE PLATE TO BE SAME GAUGE AS SKIRT AND EACH TO BE GALVANIZED.

TOE PLATE TO BE INCLUDED IN UNIT COST.



ELEVATION

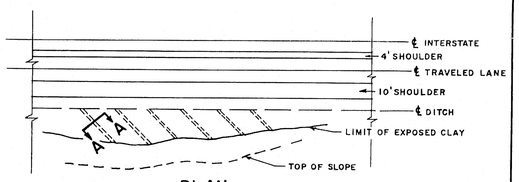


SIDE ELEVATION

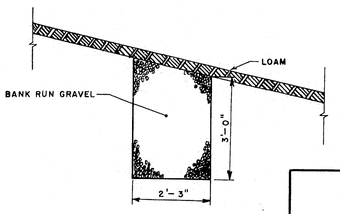
B.P.R. REGION NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	8	35

BANGOR INTERSTATE

CUT SLOPE DRAIN

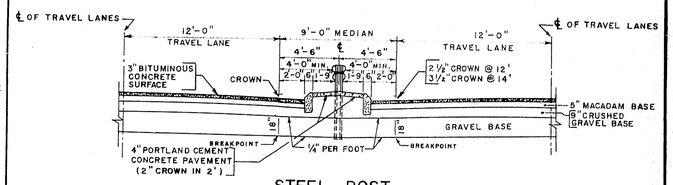


PLAN

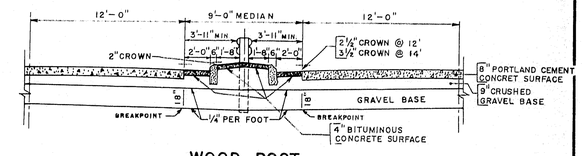


SECTION A-A

9-FOOT MEDIAN

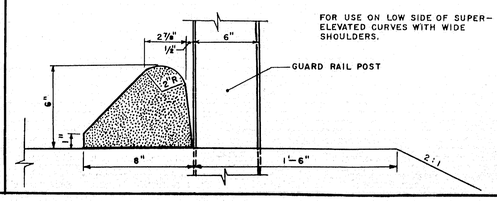


STEEL POST



WOOD POST

BITUMINOUS CONCRETE CURB



FOR USE ON LOW SIDE OF SUPER-ELEVATED CURVES WITH WIDE SHOULDERS.

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS

BENDS & BANDS, METAL ENDWALLS, GUARD RAIL ON RAMPS, CUT SLOPE DRAIN, 9-FOOT MEDIAN & BITUMINOUS CONCRETE CURB

(5)

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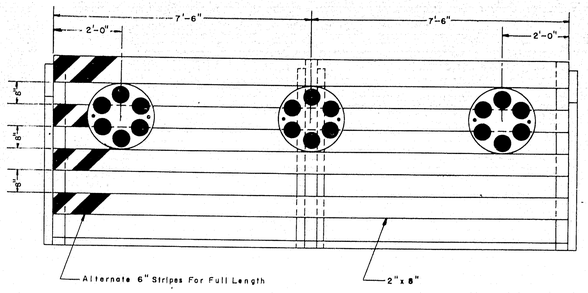
C. R. CO., NO. 2350

0 1 2 3 4 5 INCHES

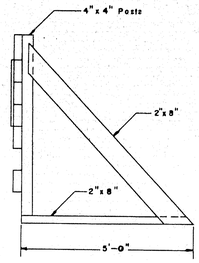
B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	9	35

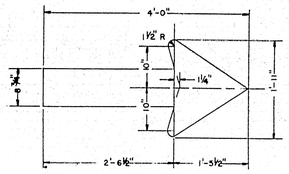
BANGOR INTERSTATE



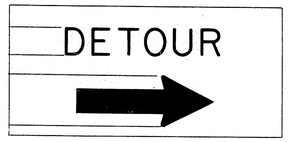
PORTABLE BARRICADE

Scale: 1/2" = 1'





Scale: 3/4" = 1'

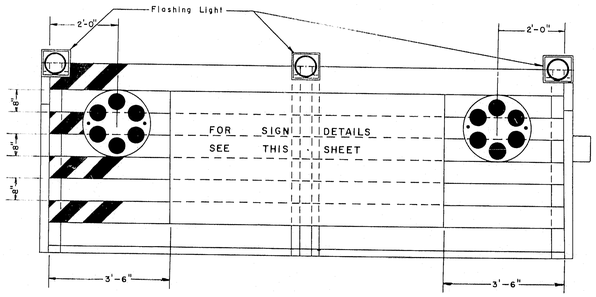


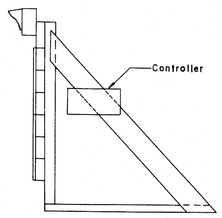
DETOUR SIGN FOR
PORTABLE BARRICADE

Scale: 1/2" = 1'

GENERAL NOTES:

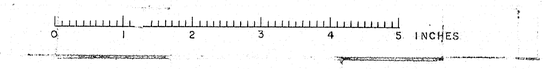
1. Lumber sizes for use on Barricades shall be 2"x 8" except for Posts which shall be 4"x 4".
2. Detour Sign shall be 5/8" thick plywood.
3. Alternate 6" stripes shall be painted or screened in black on a background of silver reflective sheeting.
4. The word "DETOUR" and Arrow shall be painted or screened in black on a background of yellow reflective sheeting.
5. Flashing Lights shall be Mounted to permit rotation to face oncoming traffic.
6. Reflector clusters shall consist of a red background with red Reflectors similar to AGA Designation #1816 – A1 (PDON).
7. The Barricades shall be securely anchored in place by means of sandbags, weights, or large stones.
8. Location of Service and Meter to be determined after Power Source has been decided.





PORTABLE BARRICADE
WITH FLASHING LIGHTS
AND DETOUR SIGN

Scale: 1/2" = 1'



MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

SPECIAL DETAILS

PORTABLE BARRICADES

SCALE: AS NOTED

THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

78-9

B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	10	35

BANGOR INTERSTATE

END F.A.P I-95-8(17)179 STA. 297+00

BEGIN F.A.P I-95-8(6)180 STA. 297+00

LIMIT OF WORK STA. 296+50

INTERSTATE #95

EDWARD K. & HAZEL A. GRANT

HENRY DREW

Sta 56+88.92 Stillwater Ave. & Survey = Sta 301+26.66 Interstate #95

297+00 to 300+00 2'x300' Sodded ditch

Hand laid Riprap under Bridge downspouts to ditch 1'-6" deep

Buildings No. 2 To be razed

Sight on House Outer Edge Right Window Frame 5000' ±

299+90 Southbound to 59+50 Stillwater Ave. 2'x 360' Ditch sodded from 299+90 to 302+10

FRANCIS J. MEEHAN

PERMANENT LINE B.H.E. CO. & CITY OF BANGOR

Hand laid Riprap under bridge Downspouts to ditch, 1'-6" deep

60+50 to 61+14 15'x64' A.C.C.M.P Lt. Under driveway

Sta 62+50.00 ℄ Survey = Sta 62+60.15 ℄ Const.

59+50 24"x 10' A.C.C.M.P. Lt. 24"x 80' R.C.P. Roadway 24"x 8' A.C.C.M.P. Rt. 24" metal endwall Rt. Pipe connector Lt.

MEET EXISTING LIMIT OF WORK STA. 62+50±

TEMPORARY LINE FOR DETOUR DURING CONSTRUCTION PERIOD B.H.E. CO. NET&T Co. CITY OF BANGOR

JAMES F. MULRANY

RICHARD D. BURGESS

ANDREW J. NELSON

Buildings No. 1 To be razed

Buildings No. 3 To be Razed

Buildings No. 4 To be razed

Hand-laid Riprap under Bridge downspouts to ditch

Sta 301+46.74 Interstate #95 = Sta. 57+05.67 Stillwater Ave ℄ Const.

PERMANENT LINE, N.E.T.&T. Co. BURIED CONDUIT

302+90 to 304+50 170'—2' Sodded Ditch Lt

END F.A.P I-95-8(6)180 STA. 304+50

LIMIT OF WORK STA. 305+00

Sight Center of Light on Radio Tower 5000' ±

POLE FOR EXISTING WIRE SERVICES OF B.H.E. CO. AND N.E.T.&T. CO. OF BANGOR CITY

MEET EXISTING LIMIT OF WORK STA. 51+10±

52 STILLWATER AVE

Sta 51+10.00 ℄ Survey = Sta 51+09.67 ℄ Const.

Sta 57+10.00 ℄ Survey = Sta 57+09.72 ℄ Const.

Easement Line

Clearing Line

Gravel Driveway

Concrete Well

Chicken House

Field Stone Wall

Barb Wire Fence

Pickett Fence

Garage

Existing 36" San. Sewer

To 16E31 1156.16' N64°-17'-42"E 16E30

B.H.E. #B3175 N.E.T.&T. #31

B.M. S-14

Vert. hinge spike in 28" Elm 40' east of Stillwater Ave. 0.5 mi. S. of Int. of Hogan Rd. and Stillwater Ave. 1st. in row of 3.

Elev. 141.87

U.S.G.S. Datum

B.M. S-15

Chiseled square in ledge 0.1 mi S. of Stillwater Ave. 0.3 mi. S. of B.M. S-14 highest point on ledge outcrop.

Elev. 143.49

U.S.G.S. Datum

END F.A.P I-95-8(17)179 STA. 297+00

BEGIN F.A.P I-95-8(6)180 STA. 297+00

LIMIT OF WORK STA. 296+50

V.C. = 1000' Left S.S.D. = 738' d = 3.35' C = 7.5

V.C. = 1000' Right S.S.D. = 741' d = 3.32' C = 7.5

P.V.C. 297+00 Left 145.82

P.V.C. 298+50 Right 144.76

-0.78%

+1.90%

+1.88% (+1.877%)

Finished Grade Left

Finished Grade Right

Limit of stage construction (By others)

Construct Ramp from top of stage construction by others to top of 18" Gravel Base. 297+00± to 298+00± Rt. and 297+00± to 298+60± Lt.

Existing Grade Left

Existing Grade Right

P.V.I. 302+00 Left 155.32

P.V.I. 303+50 Right 154.15

Construct to top of 18" Gravel Base: from 298+00± Rt. & 298+60± Lt. to bridge structure. from bridge structure to 304+50± Lt. & Rt. construct temporary gravel approaches adjacent to bridge slabs as directed and/or as required.

Left

Right

Embankment sloped to meet existing ground 304+50± to 305+00 Lt. & Rt.

LIMIT OF WORK STA. 305+00

END F.A.P I-95-8(6)180 STA. 304+50

	Existing Grade / Finished Grade	295	296	297	298	299	300	301	302	303	304	305	Existing Grade / Finished Grade
LEFT		116.0 / 142.02	116.9 / 143.92	119.2 / 145.82	123.7 / 147.59	125.3 / 149.08	129.3 / 150.31	135.7 / 151.28	139.3 / 151.97	140.1 / 152.40	139.7 / 152.55	139.0 / 152.44	LEFT
RIGHT		138.19	140.07	141.95	143.82	145.67	147.28	148.62	149.70	150.52	151.07	151.35	RIGHT

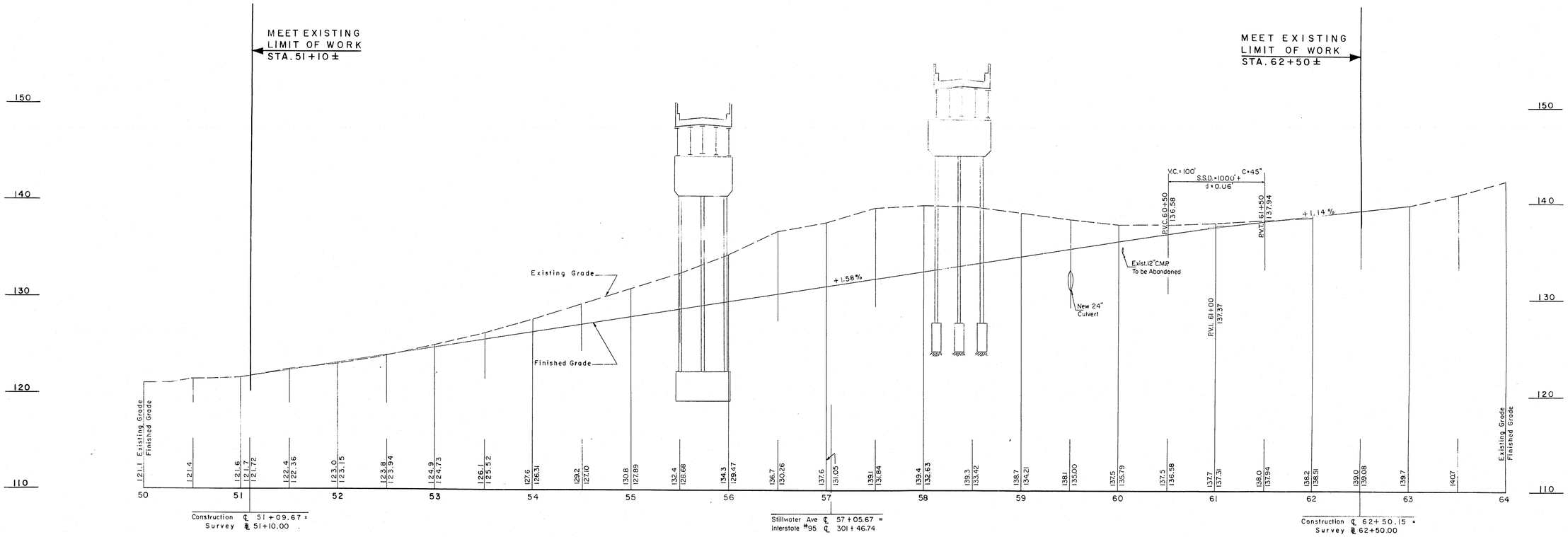
Sta. 301+46.74 ℄ Const. Interstate #95 = Sta. 57+05.67 ℄ Const. Stillwater Ave.

0 1 2 3 4 5 INCHES

78-10

B.P.R REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	11	35

BANGOR INTERSTATE



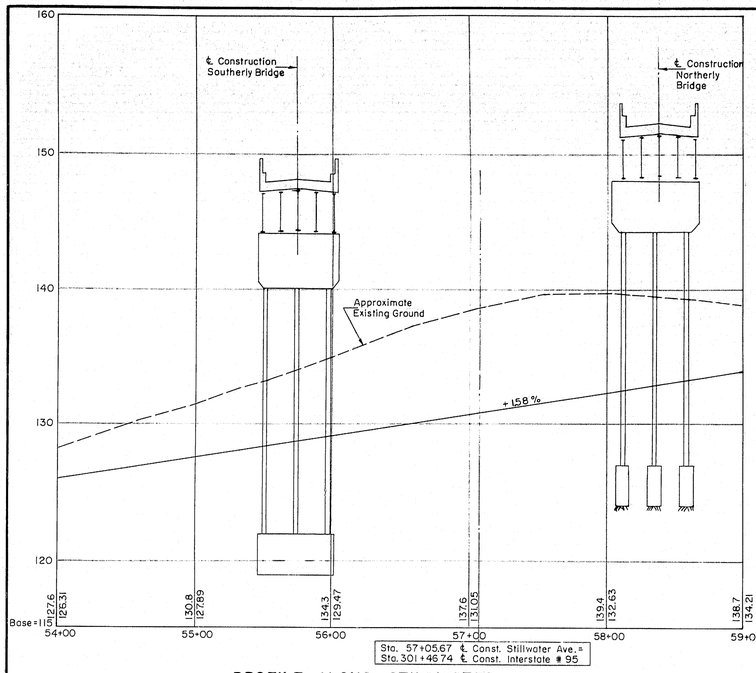
STILLWATER AVENUE

78-11

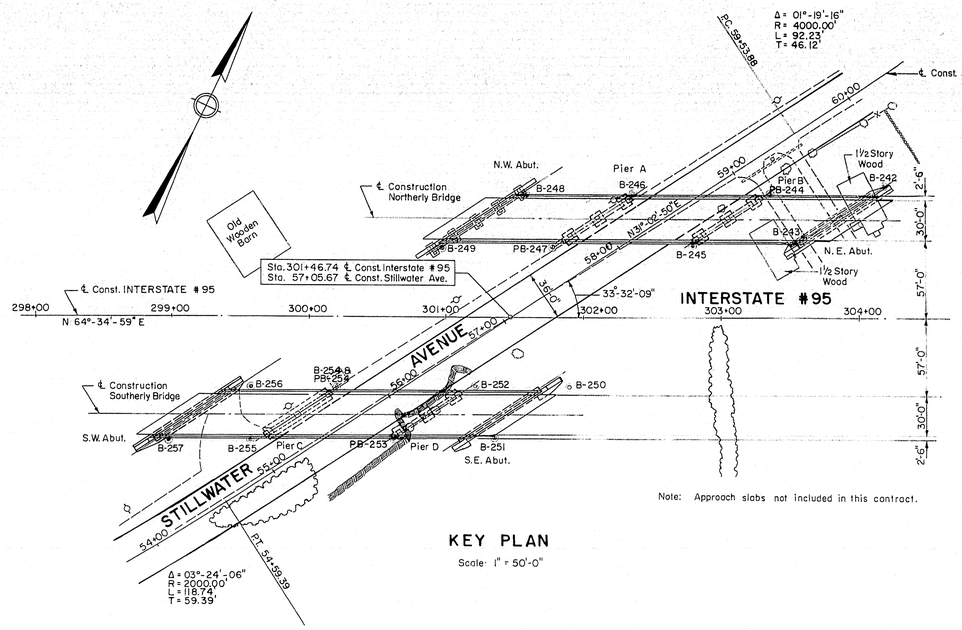
0 1 2 3 4 5 INCHES

B.P.R. REG NO	STATE	PROJECT NO	SHEET NO	TOTAL SHEETS
1	MAINE	I - 95 - 8 (6)	12	35

BANGOR INTERSTATE



PROFILE ALONG STILLWATER AVENUE



Note: Approach slabs not included in this contract.

KEY PLAN

Scale: 1" = 50'-0"

GENERAL NOTES

FOUNDATION:

Foundations may be altered, if necessary, to suit conditions encountered in construction.

DESIGN:

In accordance with the Specifications of the American Association of State Highway Officials for H20-S16-44 loading (1957 Edition) modified for military requirements.

Design Stresses: Structural Steel f_s = 18,000 psi
Reinforcing Steel f_s = 18,000 psi
Concrete (n=10) f_c = 1,200 psi

CONSTRUCTION:

State of Maine Standard Specifications to be followed except as noted in Special Provisions.

REINFORCEMENT:

All bars shall have deformations conforming to A.S.T.M. Designation A 305.
Unless otherwise shown on plans, reinforcing bars shall be lapped 20 diameters to make a splice, except that main reinforcing bars near the top of slabs and beams having more than 12" of concrete under the bars shall be lapped 35 diameters to make a splice.

STRUCTURAL STEEL:

Wherever cover plates and / or shear connectors are welded to beams, beams and plates shall be weldable structural steel A.S.T.M. Designation A 373.

BENCH MARK:

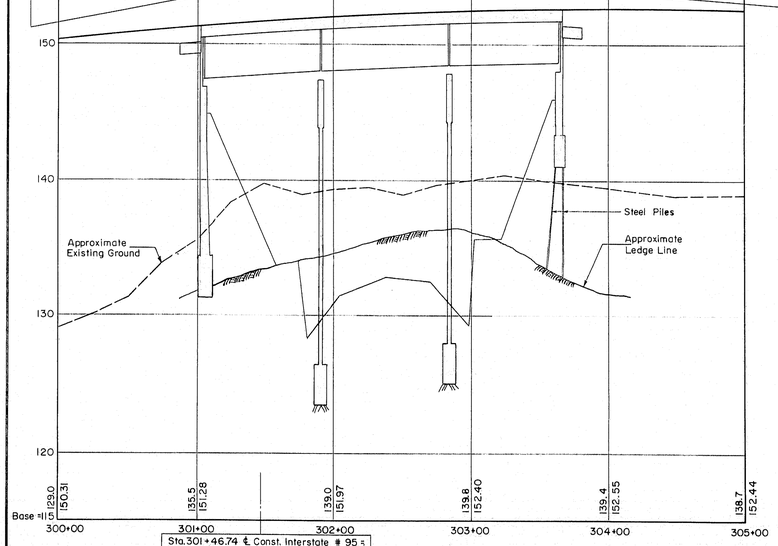
BM S-14 Vertical hinge spike in 28" Elm, 40' east of Stillwater Ave, 0.5 miles South of intersection of Hogan Rd. & Stillwater Ave., 1st in row of 3. Elevation 141.87 U.S.G.S. Datum.

BM S-15 Chiseled square in ledge, 0.1 miles south of Stillwater Ave., 0.3 miles south of BM S-14, highest point on ledge outcrop. Elevation 143.49 U.S.G.S. Datum.

ESTIMATED QUANTITIES

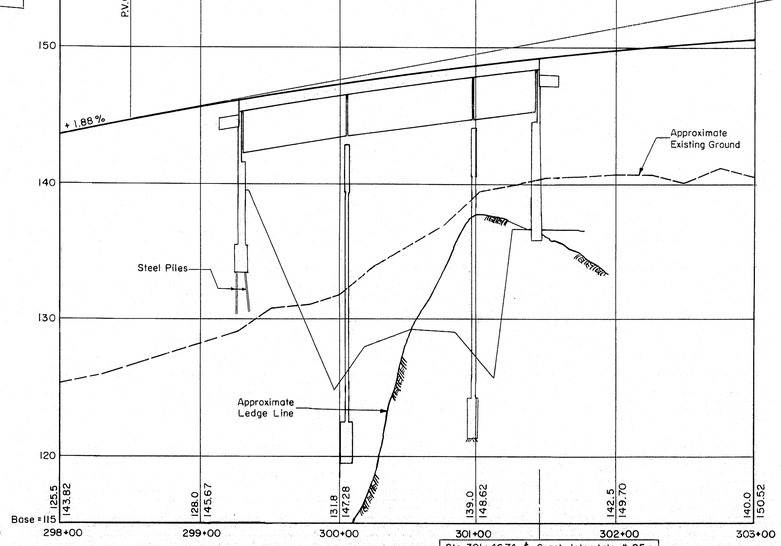
(NOT GUARANTEED)

STRUCTURAL EARTH EXCAVATION, ABUTMENTS AND RETAINING WALLS	240 CU. YDS.
STRUCTURAL ROCK EXCAVATION, ABUTMENTS AND RETAINING WALLS	20 CU. YDS.
STRUCTURAL EARTH EXCAVATION, PIERS	160 CU. YDS.
STRUCTURAL ROCK EXCAVATION, PIERS	120 CU. YDS.
GRAVEL BASE COURSE - IN PLACE MEASUREMENT	690 CU. YDS.
PORTLAND CEMENT CONCRETE, ABUTMENTS AND RETAINING WALLS	550 CU. YDS.
PORTLAND CEMENT CONCRETE, PIERS	290 CU. YDS.
PORTLAND CEMENT CONCRETE, ROADWAY AND SIDEWALK SLABS ON STEEL BRIDGES	470 CU. YDS.
PORTLAND CEMENT	1970 BBLS.
BRIDGE DRAINAGE	1 LUMP SUM
STRUCTURAL STEEL, FABRICATED AND DELIVERED	727,900 LBS.
STRUCTURAL STEEL, ERECTION	727,900 LBS.
BRONZE OR COPPER-ALLOY BEARING AND EXPANSION PLATES, DELIVERED	1,350 LBS.
BRONZE OR COPPER-ALLOY BEARING AND EXPANSION PLATES, PLACING	1,350 LBS.
REINFORCING STEEL, DELIVERED	225,000 LBS.
REINFORCING STEEL, PLACING	225,000 LBS.
SHEAR CONNECTORS, DELIVERED AND PLACED	1 LUMP SUM
STEEL H-BEAM PILES (42 LBS./FT.)	1,000 LIN. FT.
FRENCH DRAINS	210 CU. YDS
ALUMINUM RAILING	950 LIN. FT.
SLOPE PAVING FOR BRIDGES	1,380 SQ. YDS.



PROFILE ALONG INTERSTATE #95 NORTHERLY BRIDGE

Scales: Hor. 1" = 50'-0" Vert. 1" = 5'-0"



PROFILE ALONG INTERSTATE #95 SOUTHERLY BRIDGE

Scales: Hor. 1" = 50'-0" Vert. 1" = 5'-0"

DESIGN	CHECK D.S.	BRIDGE NO.
DRAWN E.K.	APPROVED W.A.H. C.J.M.	SURVEY PLOT

STATE HIGHWAY COMMISSION

INTERSTATE # 95 OVER STILLWATER AVENUE

IN THE CITY OF

BANGOR

PENOBSCOT COUNTY

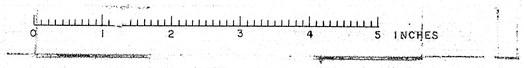
KEY PLAN & PROFILES

SHEET 1 OF 10 AUGUSTA, MAINE

APPROVED BY Wm. A Henderson DATE 7/25/58

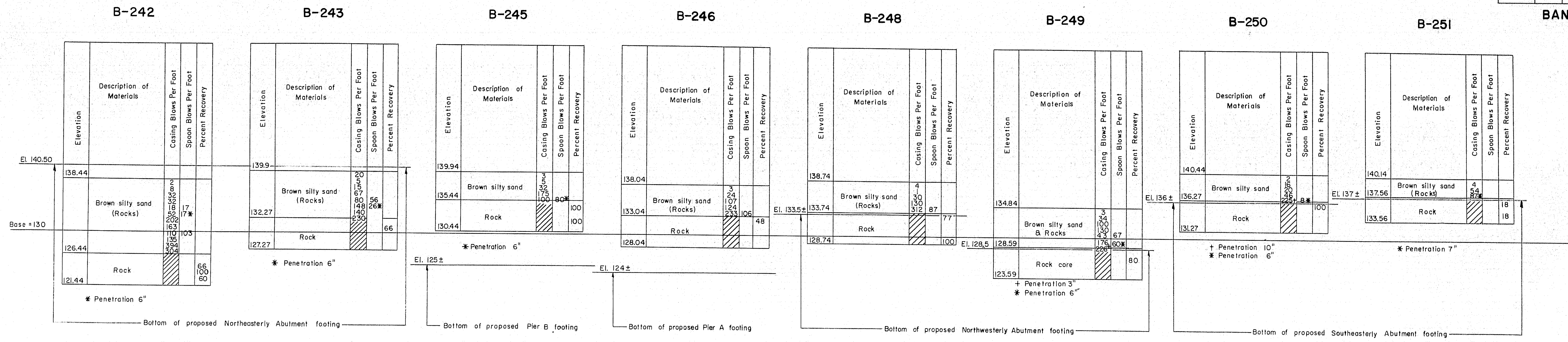
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

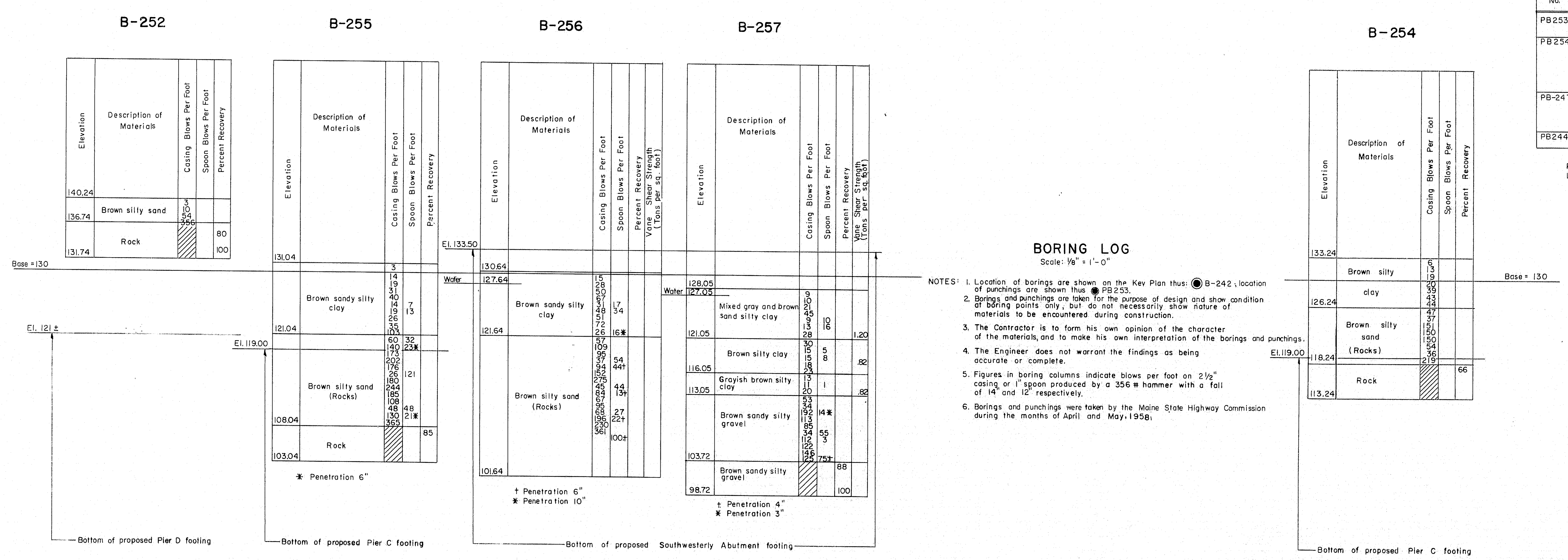
78-12



B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	13	35

BANGOR INTERSTATE





Punching No.	Ground Elevation	Depth	Remarks
PB253	133.64	0'-1'	Refusal Ledge out crop
PB254	133.24	0-1' 1'-7' 7'-7.5' 7.5'-7.8'	Hand Hammer 225 blows 200 blows Refusal Probably ledge
PB-247	138.74	0-1.5' 1.5'-4.0'	Hand Hammer Refusal Probably ledge
PB244	141.07	0-4'	Refusal

Punchings were driven to refusal surface using 1" rods and a 35# hammer.

BORING LOG

Scale: 1/8" = 1'-0"

NOTES:
1. Location of borings are shown on the Key Plan thus: ◉ B-242; location of punchings are shown thus ● PB253.
2. Borings and punchings are taken for the purpose of design and show condition at boring points only, but do not necessarily show nature of materials to be encountered during construction.
3. The Contractor is to form his own opinion of the character of the materials, and to make his own interpretation of the borings and punchings.
4. The Engineer does not warrant the findings as being accurate or complete.
5. Figures in boring columns indicate blows per foot on 2 1/2" casing or 1" spoon produced by a 356 # hammer with a fall of 14" and 12" respectively.
6. Borings and punchings were taken by the Maine State Highway Commission during the months of April and May, 1958.

0 1 2 3 4 5 INCHES

THE CLARKESON ENGINEERING CO., INC.

DESIGN	CHECK H.P.	BRIDGE NO.
DRAWN E.K.	APPROVED W.A.H. C.J.M.	SURVEY PLOT

STATE HIGHWAY COMMISSION

INTERSTATE #95

OVER

STILLWATER AVENUE

IN THE CITY OF

BANGOR

PENOBSCOT COUNTY

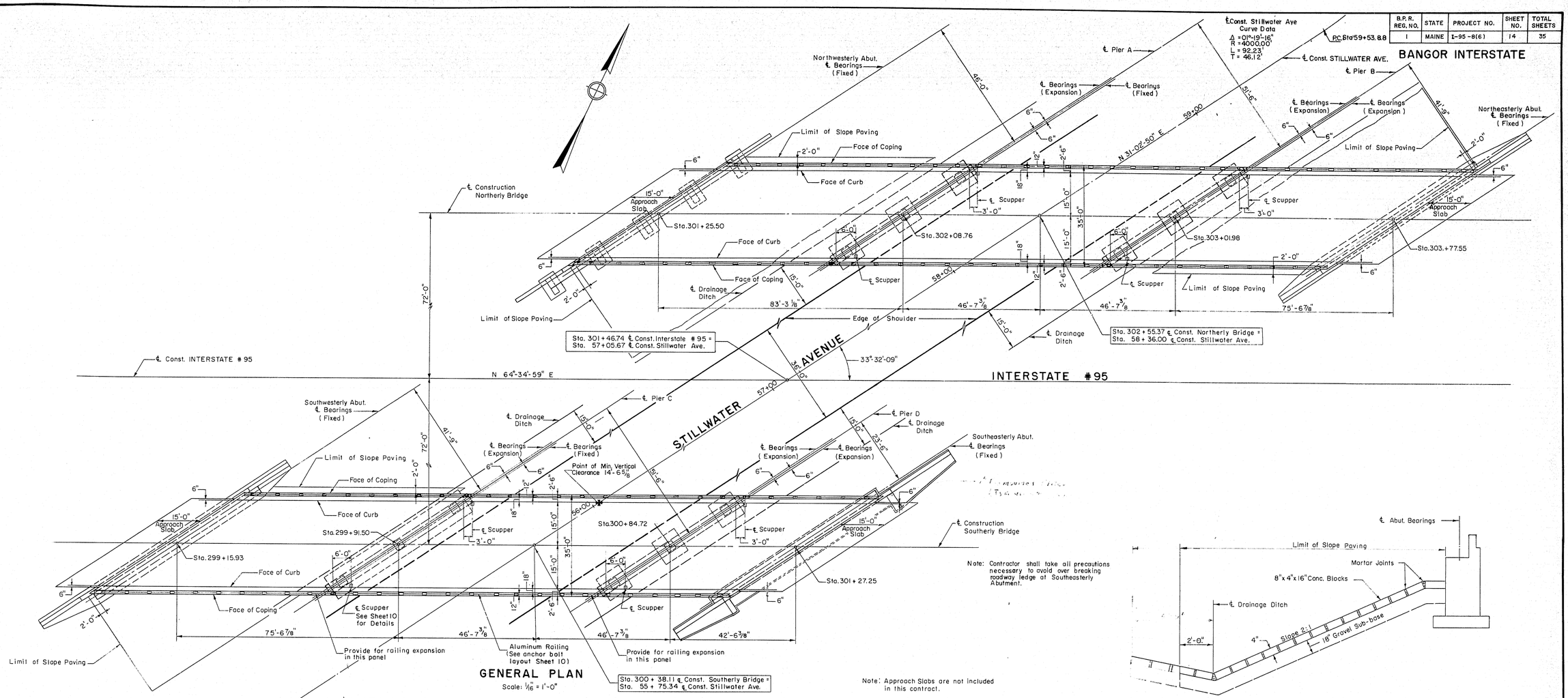
BORING DATA

SHEET 2 OF 10 AUGUSTA, MAINE

78-13

B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	14	35

BANGOR INTERSTATE

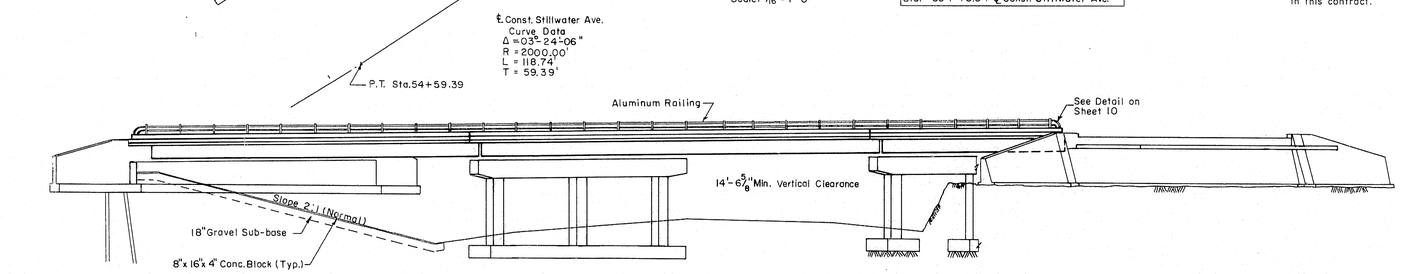


GENERAL PLAN

Scale: 1/16" = 1'-0"

Note: Contractor shall take all precautions necessary to avoid over breaking roadway ledge at Southeasterly Abutment.

Note: Approach Slabs are not included in this contract.



GENERAL ELEVATION

Scale: 1/16" = 1'-0"

SLOPE PAVING DETAIL

No Scale

Note: Slope Paving to stop at ledge if ledge is encountered during construction.

THE CLARKESON ENGINEERING CO., INC.		
DESIGN J.T.	CHECK D.S. W.A.H.	BRIDGE NO. SURVEY PLOT
DRAWN E.K.	APPROVED C.J.M.	

STATE HIGHWAY COMMISSION

INTERSTATE #95

OVER

STILLWATER AVENUE

IN THE CITY OF

BANGOR

PENOBSCOT COUNTY

GENERAL PLAN & ELEVATION

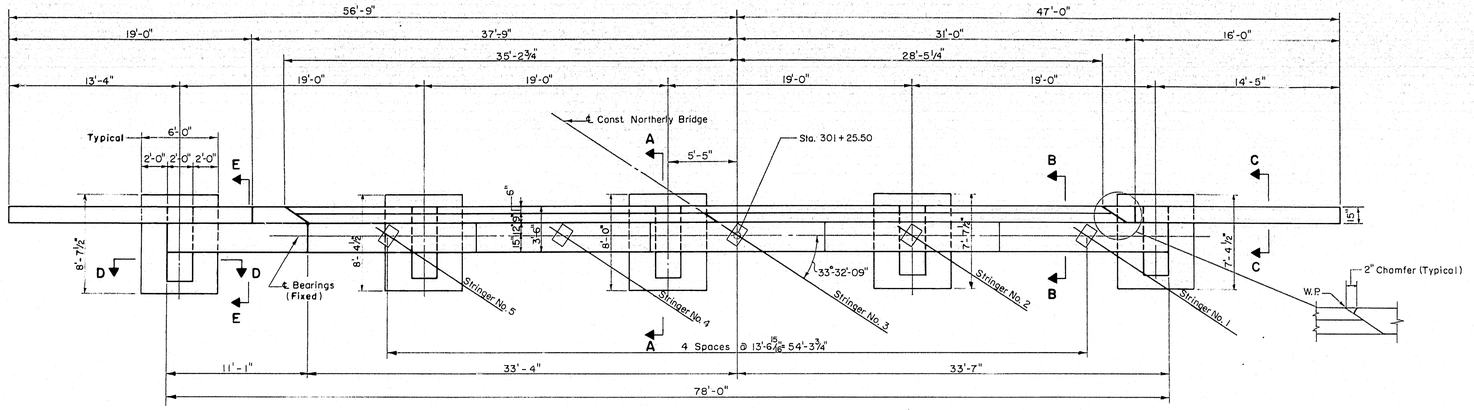
SHEET 3 OF 10 AUGUSTA, MAINE

78-14

0 1 2 3 4 5 INCHES

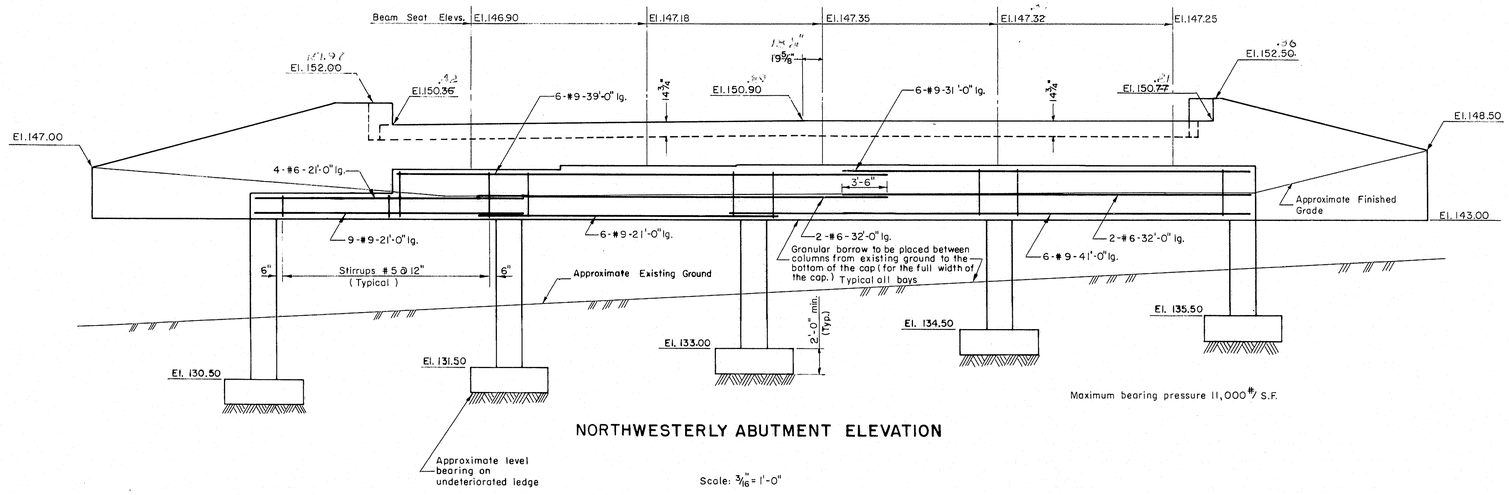
B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	15	35

BANGOR INTERSTATE



NORTHWESTERLY ABUTMENT PLAN

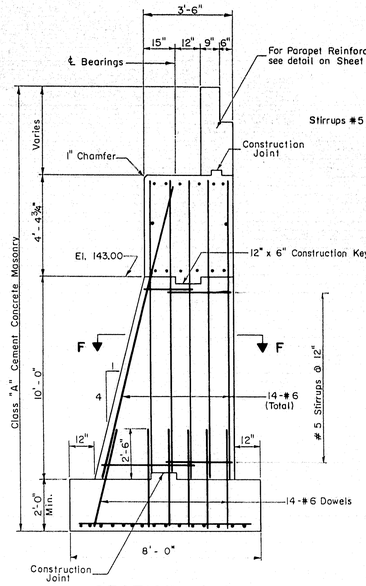
Scale: 3/16" = 1'-0"



Maximum bearing pressure 11,000#/ S.F.

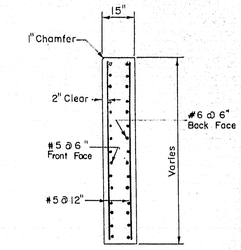
NORTHWESTERLY ABUTMENT ELEVATION

Scale: 3/16" = 1'-0"



SECTION F-F

Scale: 3/8" = 1'-0"



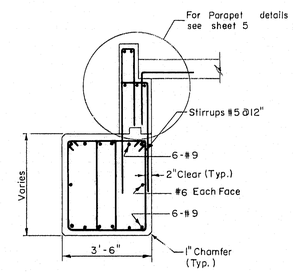
SECTION C-C

Scale: 3/8" = 1'-0"

SECTION A-A

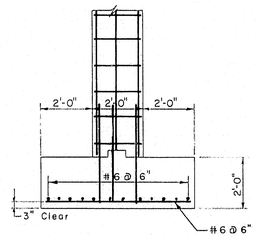
Scale: 3/8" = 1'-0"

Note: Other pedestals similar.



SECTION B-B

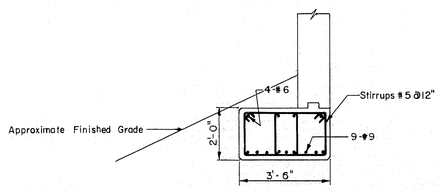
Scale: 3/8" = 1'-0"



Maximum bearing pressure 11,000 lbs. per sq. ft.

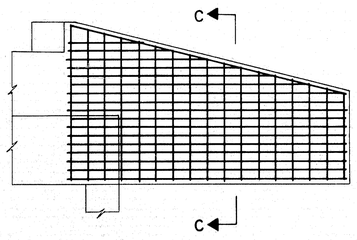
SECTION D-D

Scale: 3/8" = 1'-0"



SECTION E-E

Scale: 3/8" = 1'-0"



WING REINFORCING LAYOUT

Scale: 1/4" = 1'-0"

THE CLARKESON ENGINEERING CO., INC.

DESIGN J.T. & D.S.	CHECK D.S.	BRIDGE NO.
DRAWN E.K.	APPROVED W.A.H. C.J.M.	SURVEY
		PLOT

STATE HIGHWAY COMMISSION

INTERSTATE # 95

OVER

STILLWATER AVENUE

IN THE CITY OF

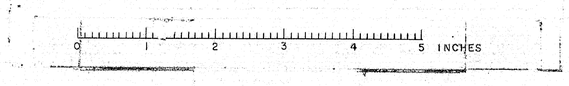
BANGOR

PENOBSCOT COUNTY

NORTHWESTERLY ABUTMENT

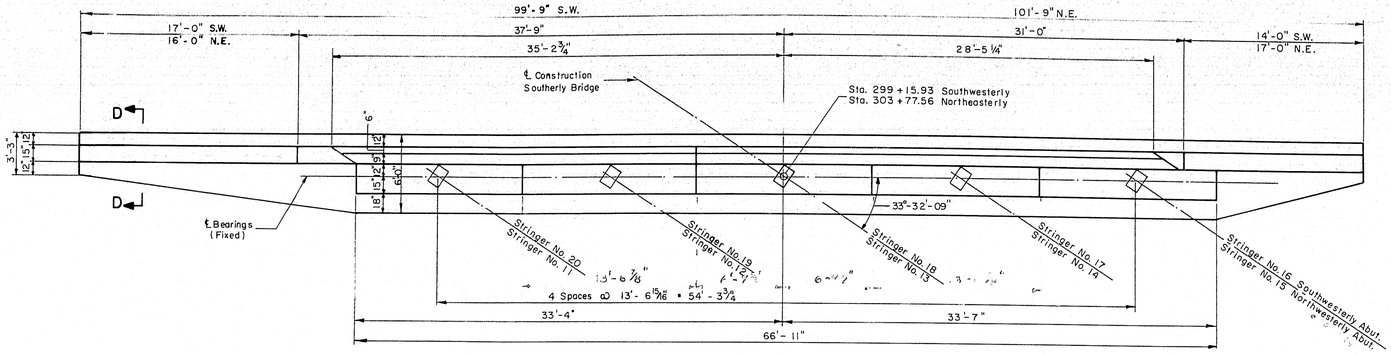
SHEET 4 OF 10 AUGUSTA, MAINE

78-15



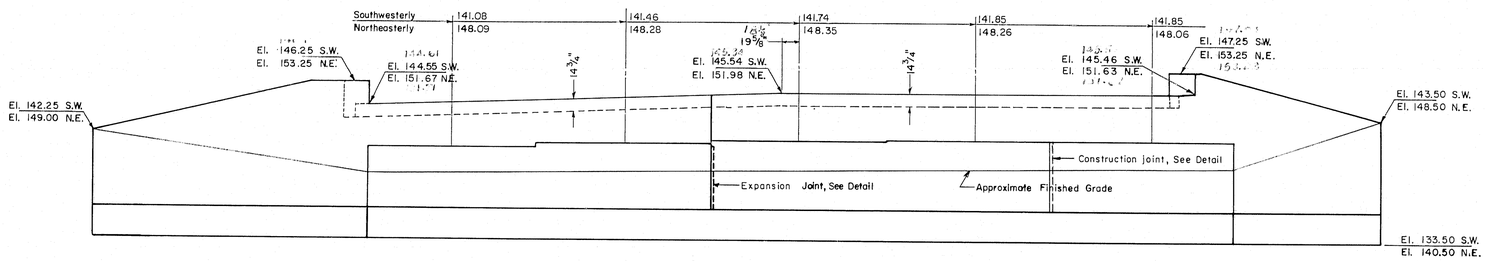
B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	16	35

BANGOR INTERSTATE



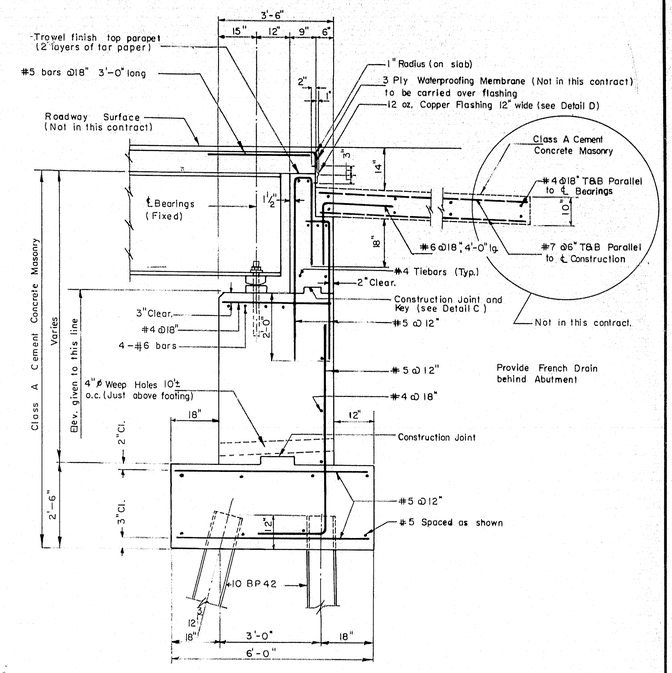
SOUTHWESTERLY ABUTMENT PLAN (SHOWN)
NORTHEASTERLY ABUTMENT PLAN (SIMILAR AS NOTED)

Scale: 3/16" = 1'-0"



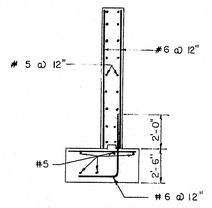
SOUTHWESTERLY ABUTMENT ELEVATION (SHOWN)
NORTHEASTERLY ABUTMENT ELEVATION (SIMILAR AS NOTED)

Scale: 3/16" = 1'-0"



TYPICAL ABUTMENT SECTION

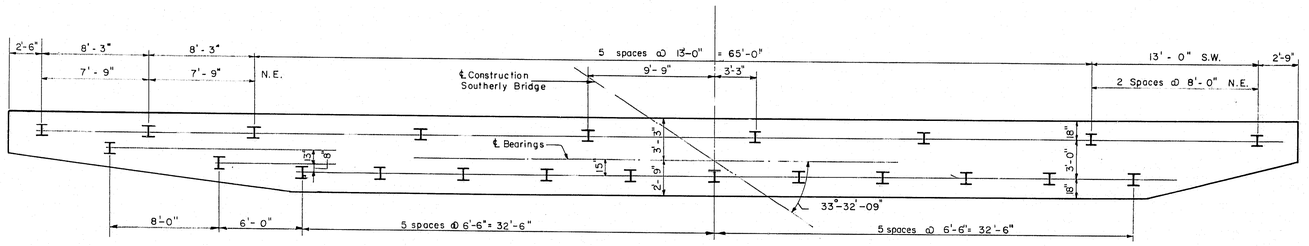
Scale: ½" = 1'-0"



SECTION D-D

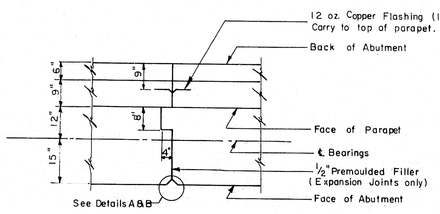
Scale: ¼" = 1'-0"

Notes:
1. Embankments under abutments to be constructed to bottom of footing elevation before piles are driven.
2. All piles to be driven to ledge or to practical refusal.
3. All piles to be 10 BP 42.
4. Maximum pile load = 28 Tons.
5. Front piles to be battered 3 in 12.



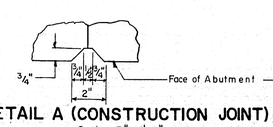
SOUTHWESTERLY ABUTMENT PILE PLAN (SHOWN)
NORTHEASTERLY ABUTMENT PILE PLAN (SIMILAR AS NOTED)

Scale: 3/16" = 1'-0"



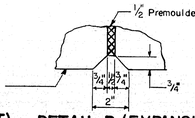
ABUTMENT CONSTRUCTION & EXPANSION JOINT

Scale: ½" = 1'-0"



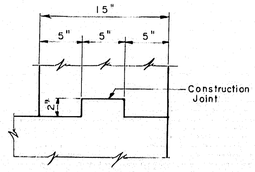
DETAIL A (CONSTRUCTION JOINT)

Scale: 3" = 1'-0"



DETAIL B (EXPANSION JOINT)

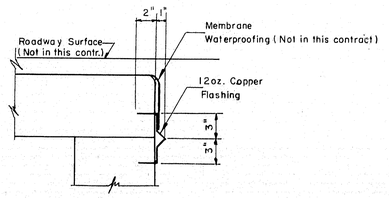
Scale: 3" = 1'-0"



DETAIL C

Scale: 1½" = 1'-0"

Note: Concrete in backwall not to be placed until Structural Steel has been erected. Construction joint to be at or above seat elevation



DETAIL D

Scale: 1½" = 1'-0"

THE CLARKESON ENGINEERING CO., INC.

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DRAWN D.A.T.	APPROVED W.A.H. C.J.M.	SURVEY PLOT

STATE HIGHWAY COMMISSION

INTERSTATE #95

OVER

STILLWATER AVENUE

IN THE CITY OF

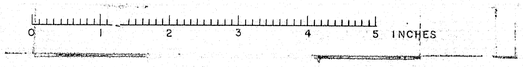
BANGOR

PENOBSCOT COUNTY

SOUTHWESTERLY ABUTMENT
NORTHEASTERLY ABUTMENT

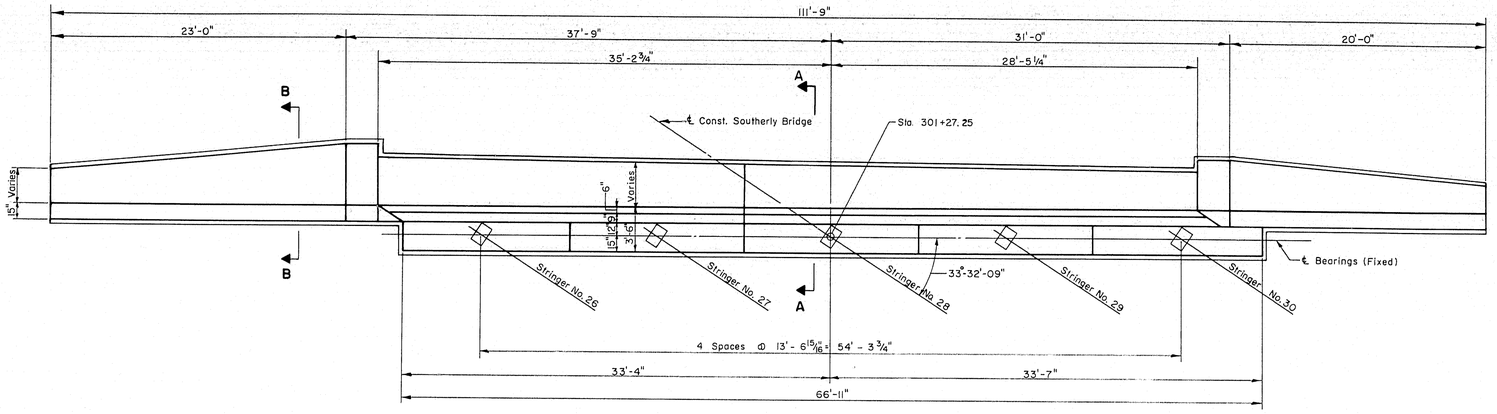
SHEET 5 OF 10 AUGUSTA, MAINE

78-16



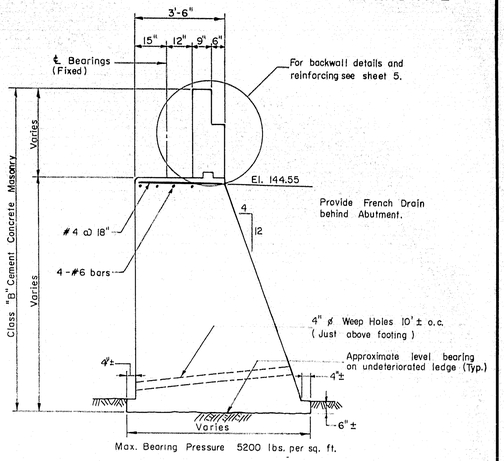
B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	17	35

BANGOR INTERSTATE



SOUTHEASTERLY ABUTMENT PLAN

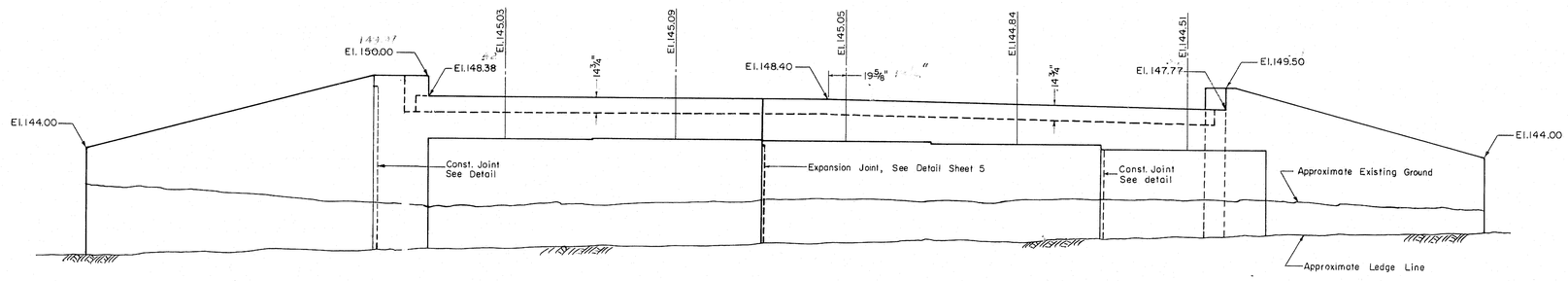
Scale: 3/16" = 1'-0"



Max. Bearing Pressure 5200 lbs. per sq. ft.

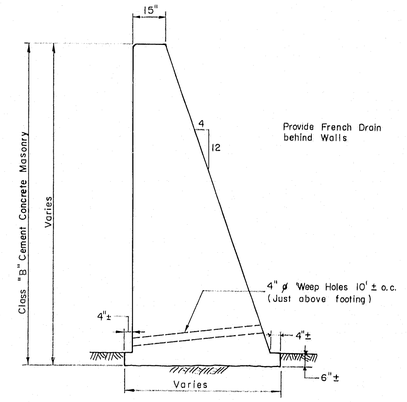
SECTION A-A

Scale: 3/8" = 1'-0"



SOUTHEASTERLY ABUTMENT ELEVATION

Scale: 3/16" = 1'-0"



SECTION B-B

Scale: 3/8" = 1'-0"

Note: For details of expansion and construction joints see Sheet 5.
Grade existing ground in front of abutment and wingwalls to drain.

THE CLARKESON ENGINEERING CO., INC.

DESIGN J.T. & D.S.	CHECK D.S. W.A.H.	BRIDGE NO. SURVEY PLOT
DRAWN E.K.	APPROVED C.J.M.	

STATE HIGHWAY COMMISSION

INTERSTATE #95

OVER

STILLWATER AVENUE

IN THE CITY OF

BANGOR

PENOBSCOT COUNTY

SOUTHEASTERLY ABUTMENT

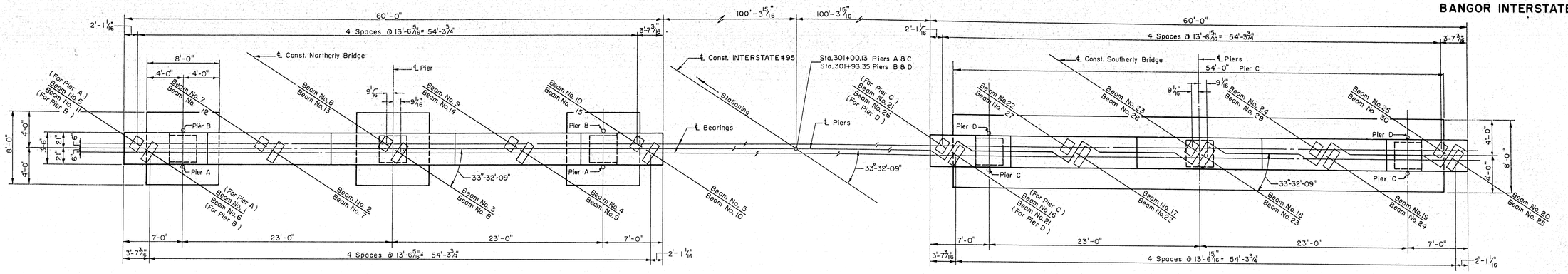
SHEET 6 OF 10 AUGUSTA, MAINE

78-17

0 1 2 3 4 5 INCHES

B.P.R. REG.NO	STATE	PROJECT NO.	SHEET NO	TOTAL SHEETS
1	MAINE	I-95-8(6)	18	35

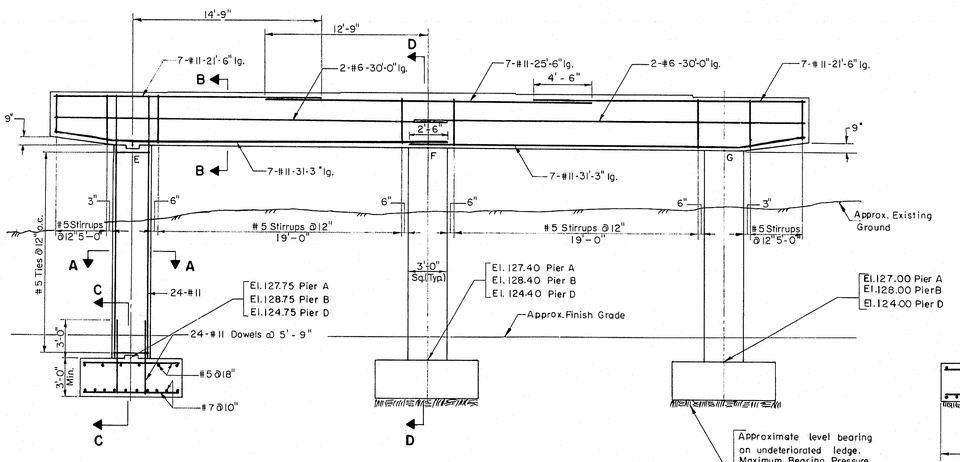
BANGOR INTERSTATE



PLAN PIER A
PLAN PIER B (SIMILAR)
Scale: 3/16" = 1'-0"

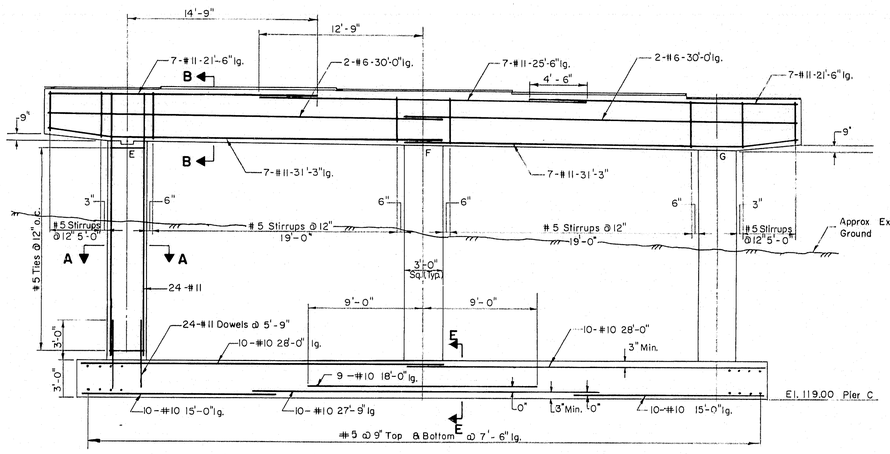
PLAN PIER C
PLAN PIER D (SIMILAR AS NOTED)
Scale: 3/16" = 1'-0"

Note: Footings for Pier D Same as Piers A & B



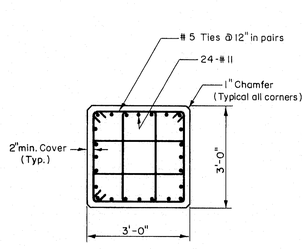
ELEVATION PIER A
ELEVATION PIER B & D (SIMILAR)
Scale: 3/16" = 1'-0"

SECTION D-D
Scale: 3/16" = 1'-0"

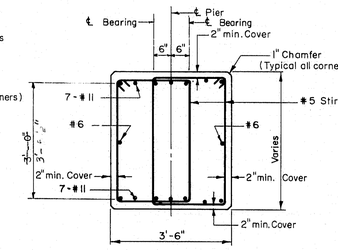


ELEVATION PIER C
Scale: 3/16" = 1'-0"

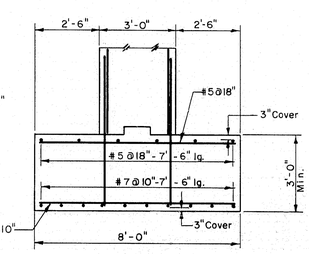
Max. Bearing Pressure 3700#/sq. ft.



SECTION A-A
Scale: 1/2" = 1'-0"

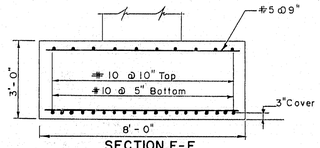


SECTION B-B
Scale: 1/2" = 1'-0"



SECTION C-C
Scale: 3/8" = 1'-0"

ELEVATIONS AT TOP OF PIER COLUMNS			
Pier \ Col.	E	F	G
Pier A	144.19	144.07 / 143.57	143.95
Pier B	144.47 / 144.21	144.40 / 143.90	144.34
Pier C	139.47 / 139.07	139.13 / 138.43	138.79
Pier D	140.71 / 140.21	140.62 / 140.12	140.14



SECTION E-E
Scale: 3/8" = 1'-0"

SCHEDULE OF BEAM SEAT ELEVATIONS												
Beam No.	Pier A		Beam No.	Pier B		Beam No.	Beam No.	Pier C		Beam No.	Pier D		Beam No.
1	147.69	147.69	6	147.97	147.97	11	16	142.97	143.04	21	144.21	144.56	26
2	147.83	147.83	7	148.13	148.13	12	17	142.99	143.06	22	144.26	144.61	27
3	147.85	147.85	8	148.18	148.18	13	18	142.91	142.97	23	144.20	144.55	28
4	147.70	147.70	9	148.07	148.07	14	19	142.65	142.72	24	143.98	144.33	29
5	147.45	147.45	10	147.84	147.84	15	20	142.29	142.36	25	143.64	143.99	30

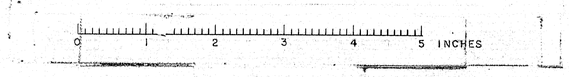
THE CLARKESON ENGINEERING CO., INC.	
DESIGN J.T. & D.S.	CHECK D.S.
DRAWN E.K.	APPROVED W.A.H-C.J.M.
BRIDGE NO. SURVEY PLOT	

STATE HIGHWAY COMMISSION

INTERSTATE #95
OVER
STILLWATER AVENUE
IN THE CITY OF
BANGOR
PENOBSCOT COUNTY
PIERS

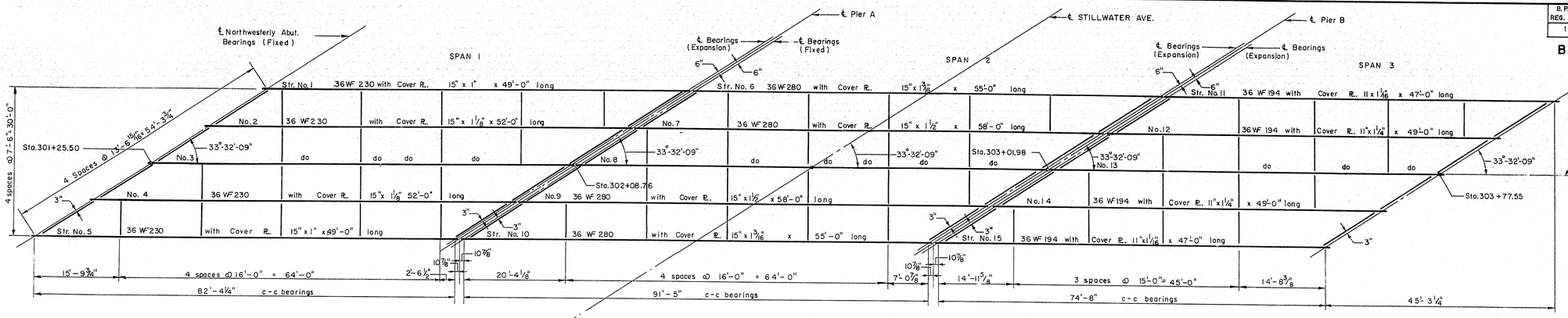
SHEET 7 OF 10 AUGUSTA, MAINE

78-18



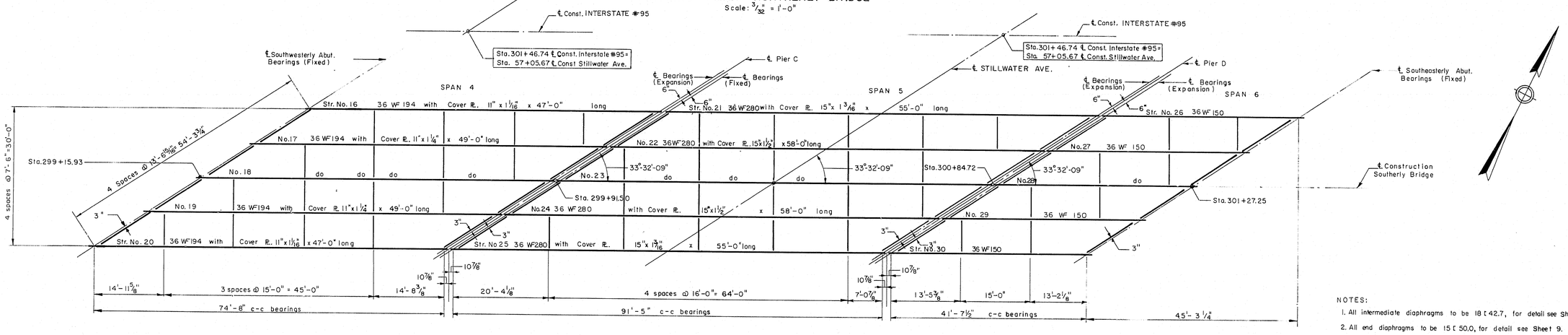
B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	19	35

BANGOR INTERSTATE



FRAMING PLAN NORTHERLY BRIDGE

Scale: 3/32" = 1'-0"

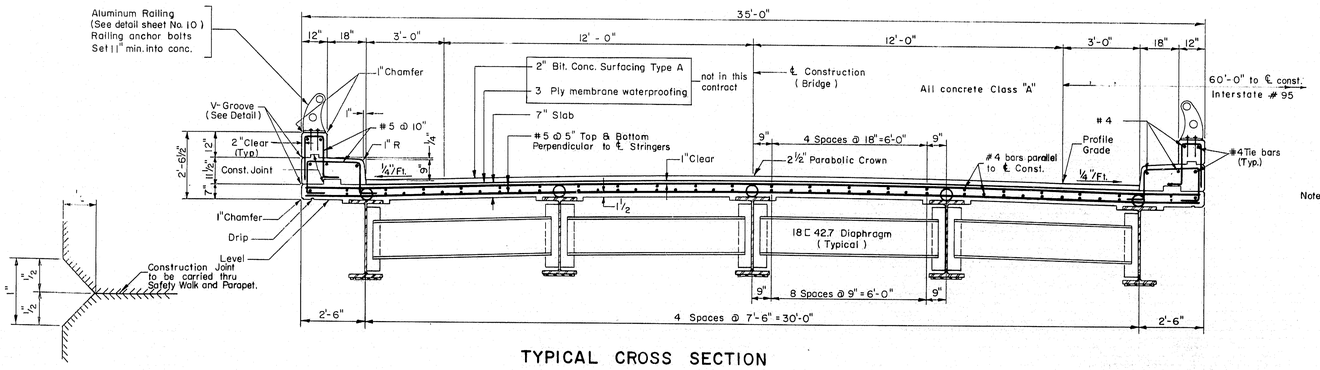


FRAMING PLAN SOUTHERLY BRIDGE

Scale: 3/32" = 1'-0"

NOTES:

1. All intermediate diaphragms to be 18 ℄ 42.7, for detail see Sheet 9.
2. All end diaphragms to be 15 ℄ 50.0, for detail see Sheet 9.
3. For Cover Plate and Shear Connector details see Sheet 9.
4. All beams to be cambered to the extent that the bridge deck under full dead load will follow as nearly as practicable the design profile, and in no case with less camber than is likely to remain permanent. The proposed camber diagram shall be submitted to the Engineer for approval.
5. Parapets and safety walks to have transverse construction joints 20'± on centers. Joints are not to be located under railing posts. Contact surfaces of joints to be painted with a bituminous material. Exposed surfaces are to chamfered 1/2". Reinforcing steel to be carried thru joints.
6. No paint shall be applied to the top flanges of beams to which shear connectors are to be welded.
7. The concrete deck for each span shall be placed in one continuous operation.



TYPICAL CROSS SECTION

Scale: 3/8" = 1'-0"

V-GROOVE DETAIL

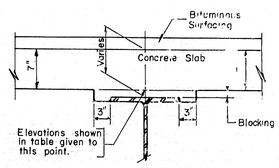
Not to Scale

ELEVATIONS OF BOTTOM OF ROADWAY SLAB

Beam No.	℄ Brg. *	1/4 Point	1/2 Point	3/4 Point	℄ Brg.	Beam No.	℄ Brg. *	1/4 Point	1/2 Point	3/4 Point	℄ Brg.
1	150.81	151.07	151.25	151.31	151.29	16	145.48	145.87	146.21	146.45	146.63
2	150.92	151.19	151.37	151.44	151.43	17	145.48	145.89	146.23	146.47	146.65
3	150.91	151.19	151.38	151.46	151.45	18	145.37	145.786	146.13	146.38	146.57
4	150.74	151.03	151.23	151.31	151.30	19	145.09	145.54	145.86	146.12	146.31
5	150.46	150.75	150.95	151.04	151.05	20	144.70	145.120	145.48	145.75	145.95
6	151.30	151.56	151.76	151.86	151.82	21	146.66	147.140	147.54	147.74	147.86
7	151.44	151.71	151.86	151.884	151.787	22	146.68	147.173	147.55	147.79	147.91
8	151.46	151.736	151.90	151.92	151.84	23	146.59	147.095	147.48	147.72	147.85
9	151.32	151.60	151.77	151.80	151.72	24	146.34	146.84	147.24	147.49	147.63
10	151.06	151.35	151.53	151.56	151.49	25	145.98	146.484	146.88	147.14	147.29
11	151.63	151.76	151.83	151.81	151.72	26	147.88	148.02	148.15	148.26	148.36
12	151.79	151.93	152.01	151.997	151.90	27	147.94	148.08	148.21	148.32	148.42
13	151.84	151.997	152.07	152.06	151.98	28	147.88	148.02	148.16	148.27	148.37
14	151.73	151.88	151.97	151.964	151.89	29	147.65	147.80	147.94	148.06	148.16
15	151.50	151.65	151.74	151.74	151.68	30	147.32	147.47	147.61	147.73	147.94

*Low station end of beam.

Note: After the structural steel is erected and before forms are built or concrete is placed, elevations on the top flange of the beams are to be obtained at the points indicated in the table. The difference between these elevations and those shown in the table give the actual blocking distance from top of the beam to the bottom of the slab.



DETAIL OF HAUNCH

Scale: 1" = 1'-0"

THE CLARKESON ENGINEERING CO., INC.

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DRAWN E.K. APPROVED W.A.H. & C.J.M. PLOT

STATE HIGHWAY COMMISSION

INTERSTATE #95

OVER

STILLWATER AVENUE

IN THE CITY OF

BANGOR

PENOBSCOT COUNTY

FRAMING PLAN & TYPICAL CROSS SECTION

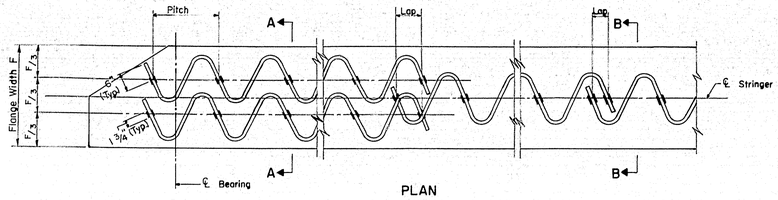
SHEET 8 OF 10 AUGUSTA, MAINE

78-19

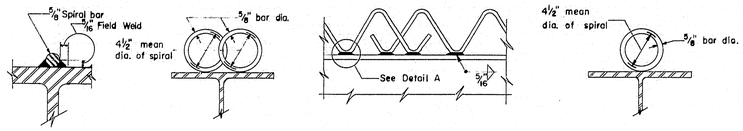
0 1 2 3 4 5 INCHES

B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	20	35

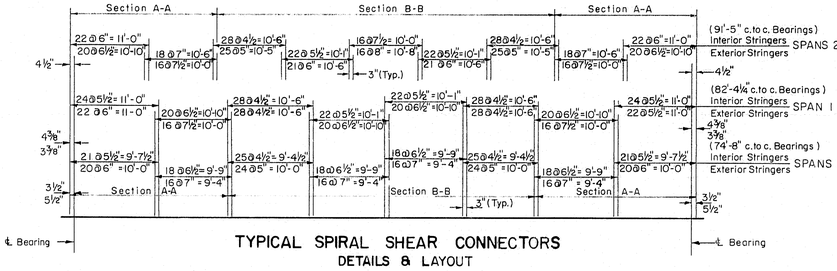
BANGOR INTERSTATE



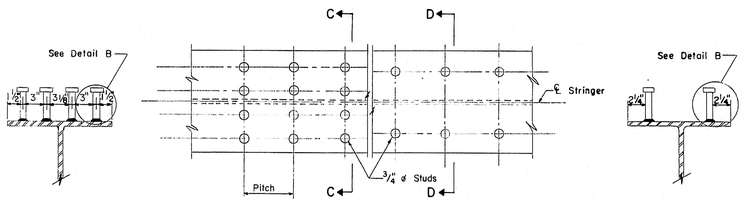
PLAN



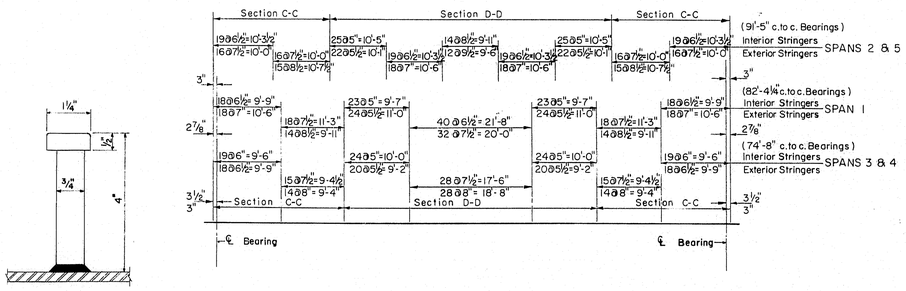
DETAIL A | SECTION A–A | ELEVATION | SECTION B–B



TYPICAL SPIRAL SHEAR CONNECTORS
DETAILS & LAYOUT
NOT TO SCALE

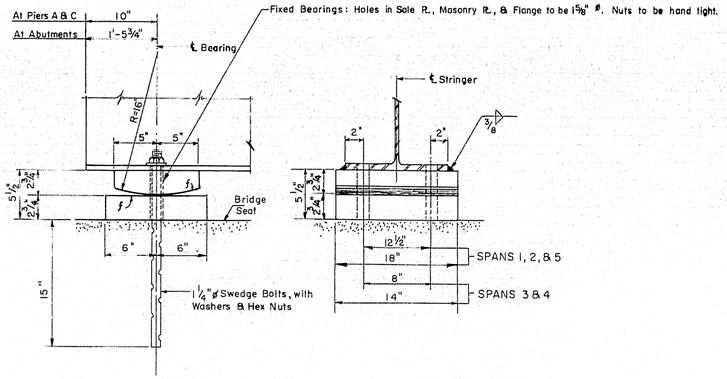


SECTION C–C | PLAN | SECTION D–D



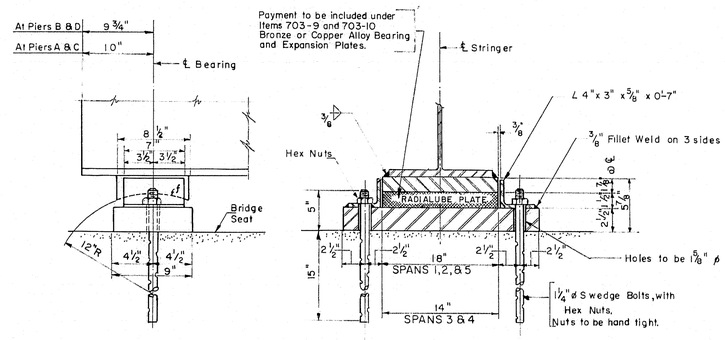
DETAIL B

TYPICAL STUD SHEAR CONNECTORS
DETAILS & LAYOUT
NOT TO SCALE

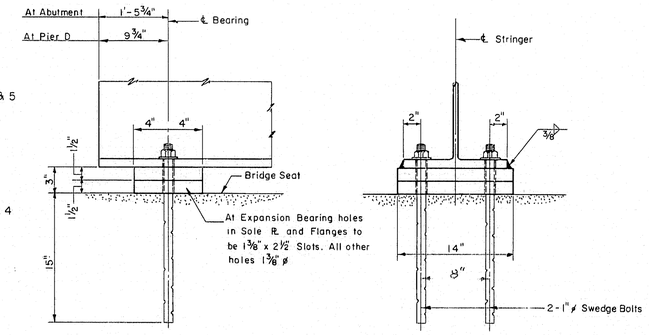


FIXED BEARING DETAIL
(SPANS 1,2,3,4,& 5)
Scale : 1½" = 1'-0"

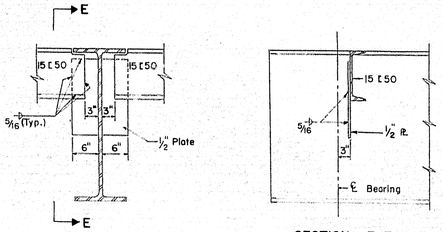
Note: All anchor bolts to be centered true before bearing plates are set in position.
Top flange of stringers to be cut parallel to ℄ of bearings.



EXPANSION BEARING DETAIL
(SPANS 1,2,3,4, & 5)
Scale: 1½"=1'-0"



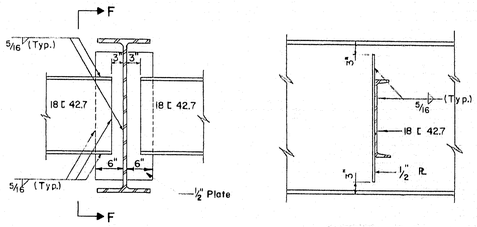
FIXED AND EXPANSION BEARING DETAILS
SPAN 6
Scale: 1½" = 1'-0"



SECTION E–E

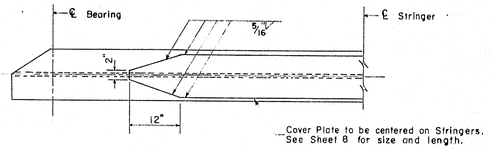
WELDED END DIAPHRAGM CONNECTION
Scale: ¾" = 1'-0"

Note: Welds to be shop or field welded.



SECTION F–F

WELDED DIAPHRAGM CONNECTION
Scale: ¾" = 1'-0"



Cover Plate to be centered on Stringers. See Sheet 8 for size and length.

COVER PLATE DETAIL
NOT TO SCALE

THE CLARKESON ENGINEERING CO., INC.		
DESIGN	CHECK H.P.	BRIDGE NO.
DRAWN F.P.D. & R.E.M.	APPROVED W.A.H. C.J.M.	SURVEY PLOT

STATE HIGHWAY COMMISSION
INTERSTATE #95
OVER
STILLWATER AVE.
IN THE CITY OF
BANGOR
PENOBSCOT COUNTY
SUPERSTRUCTURE DETAILS

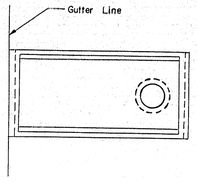
SHEET 9 OF 10 AUGUSTA, MAINE

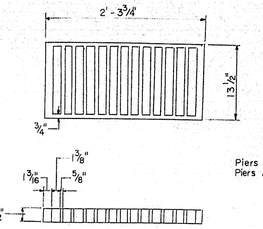
78-20

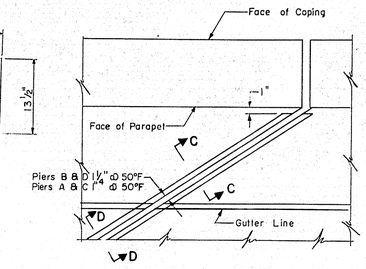
0 1 2 3 4 5 INCHES

B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	21	35

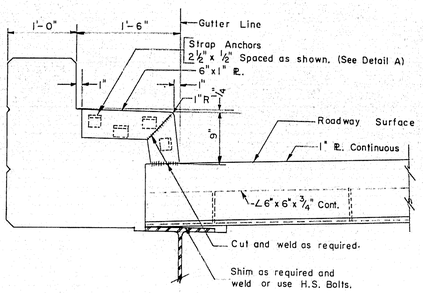
BANGOR INTERSTATE



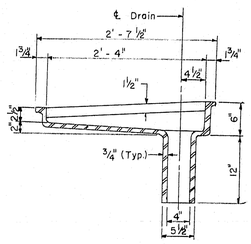


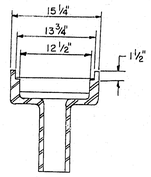


PLAN OF EXPANSION JOINT
Scale: 1" = 1'-0"



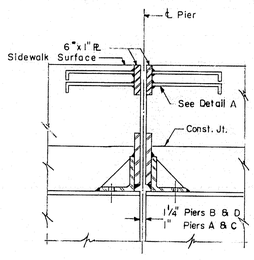
SAFETY WALK EXPANSION JOINT DETAIL
Scale: 1" = 1'-0"



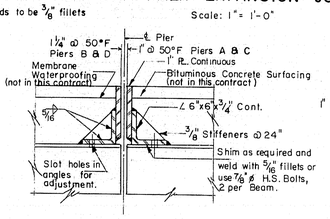


SCUPPER DETAILS
Scale: 1" = 1'-0"

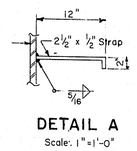
All welds to be ⅜" fillets



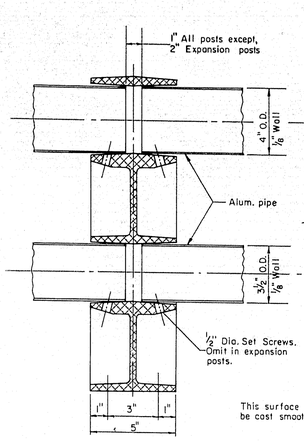
SECTION C-C
Scale: 1" = 1'-0"



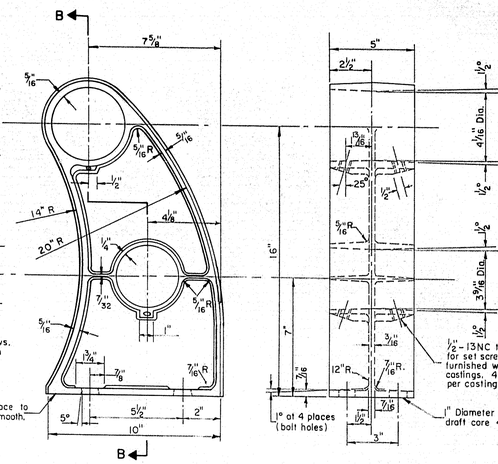
SECTION D-D
Scale: 1" = 1'-0"



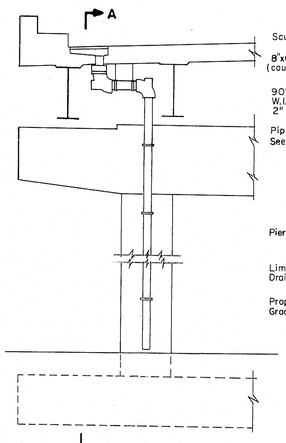
DETAIL A
Scale: 1" = 1'-0"

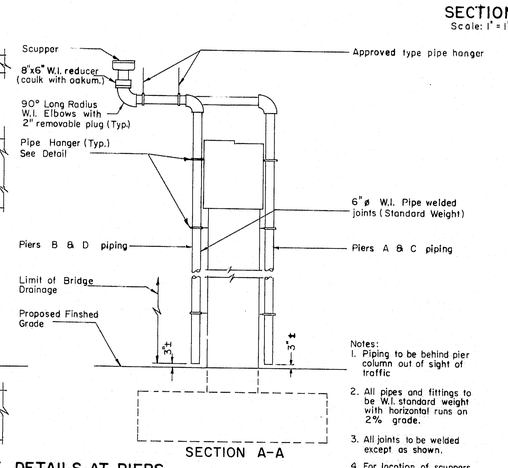


SECTION B-B



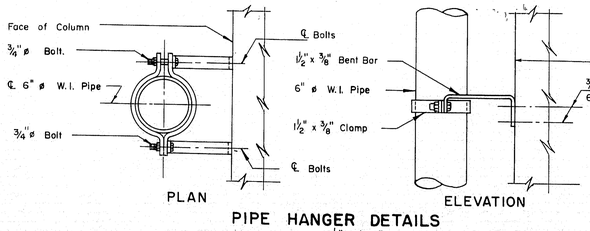
ALUMINUM RAIL DETAILS
Scale: 3" = 1'-0"



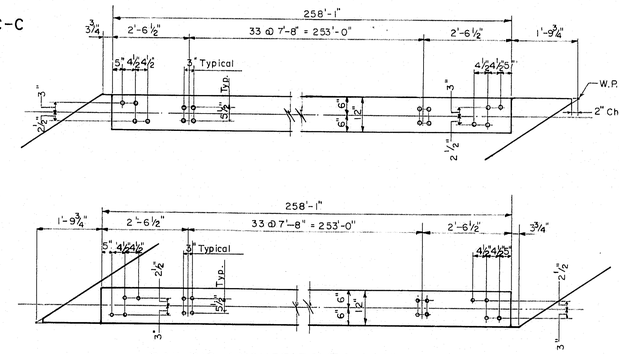


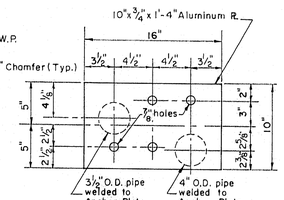
PIPE DETAILS AT PIERS
Scale: ¼" = 1'-0"

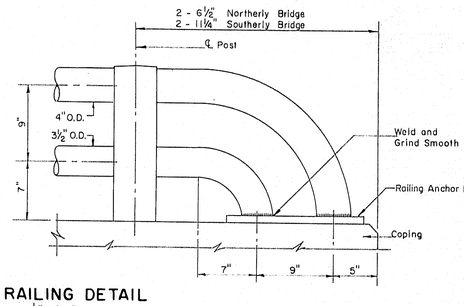
Notes:
1. Piping to be behind pier column out of sight of traffic
2. All pipes and fittings to be W.I. standard weight with horizontal runs on 2% grade.
3. All joints to be welded except as shown.
4. For location of scuppers see sheet 3
5. The contractor shall submit complete drawings of the piping system to the Engineer for approval.



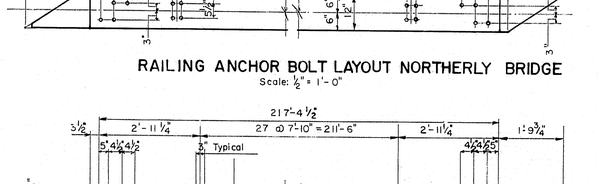
PIPE HANGER DETAILS
Scale: ½" = 1'-0"



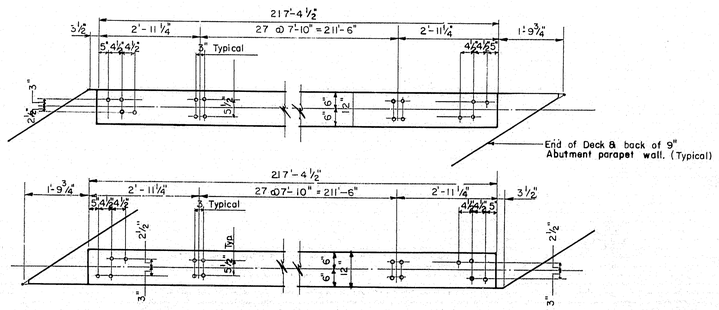




END RAILING DETAIL
Scale: ½" = 1'-0"

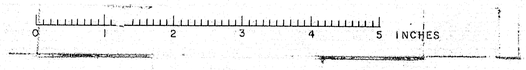


RAILING ANCHOR BOLT LAYOUT NORTHERLY BRIDGE
Scale: ½" = 1'-0"



RAILING ANCHOR BOLT LAYOUT SOUTHERLY BRIDGE
Scale: ½" = 1'-0"

Notes:
1. Any variation in railing dimensions shall be submitted for approval.
2. All anchor bolts, nuts & washers to be Aluminum Alloy.
3. All anchor bolts to be ¾" ø bolts (set 11" minimum into concrete)



THE CLARKESON ENGINEERING CO., INC.		
DESIGN DRAWN D.E.S.	CHECK H.P. APPROVED W.A.H. C.J.M.	BRIDGE NO SURVEY PLOT

STATE HIGHWAY COMMISSION

INTERSTATE #95

OVER

STILLWATER AVE.

IN THE CITY OF

BANGOR

PENOBSCOT COUNTY

DETAILS

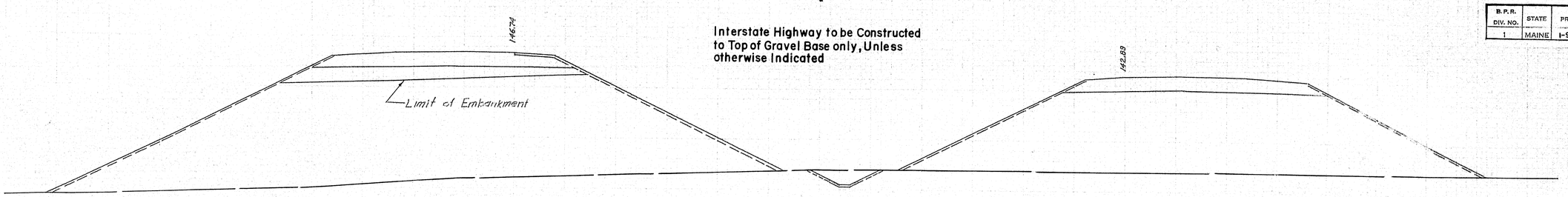
SHEET 10 OF 10 AUGUSTA, MAINE

78-21

INTERSTATE #95- BANGOR

B.P.R. DIV. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)'	22	35

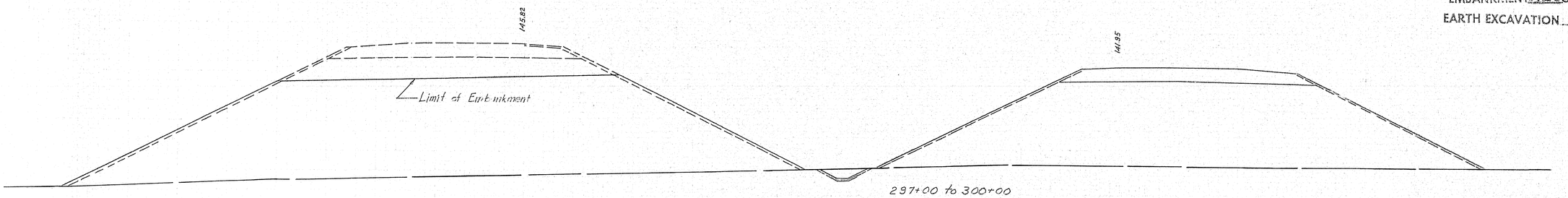
Interstate Highway to be Constructed to Top of Gravel Base only, Unless otherwise Indicated



297 + 50

110

EMBANKMENT 126 CU. YD.
EARTH EXCAVATION 41 CU. YD.

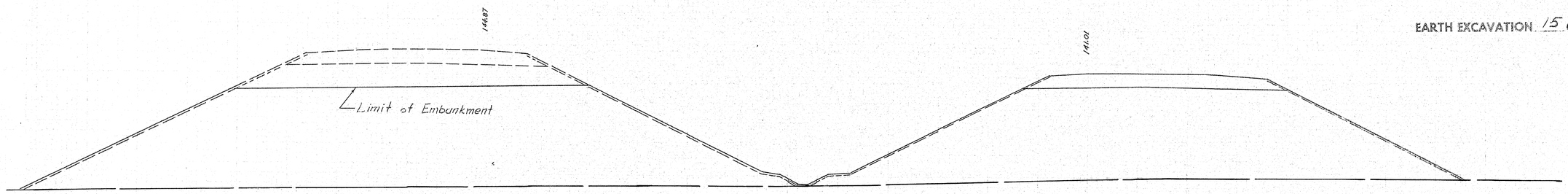


297 + 00

297+00
BEGIN F.A.P. I-95-8(6)

110

EARTH EXCAVATION 15 CU. YD.



296 + 50

296+50
LIMIT OF WORK

110

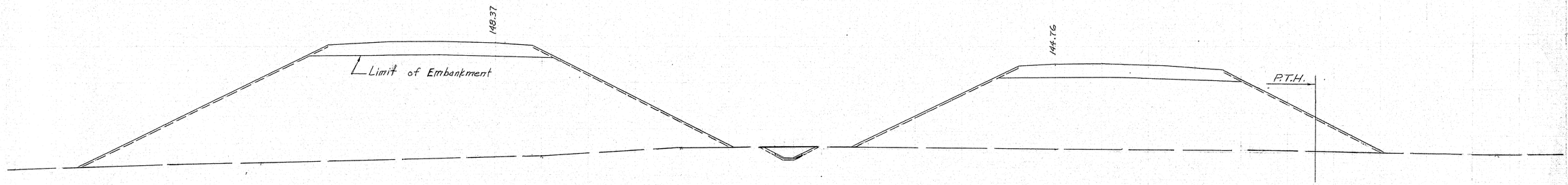
78-22

0 1 2 3 4 5 INCHES

INTERSTATE # 95 – BANGOR

D. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	23	35

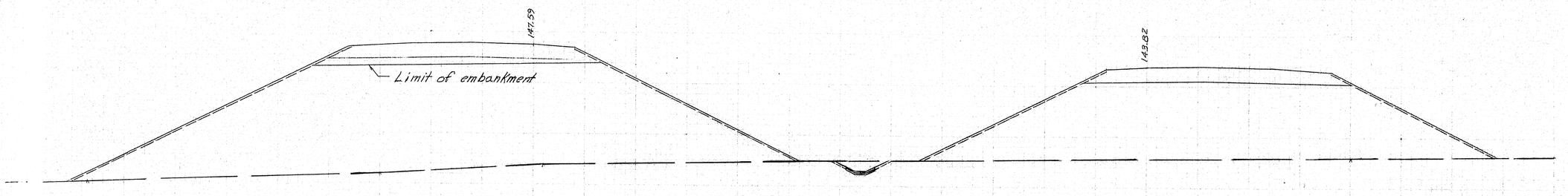
℄



298+50

110

EMBANKMENT 5946 CU. YD.
EARTH EXCAVATION 43 CU. YD.



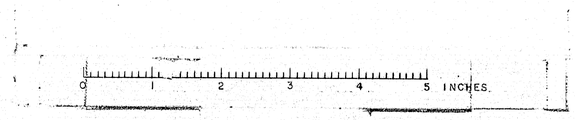
298+00

110

EMBANKMENT 6128 CU. YD.
EARTH EXCAVATION 43 CU. YD.

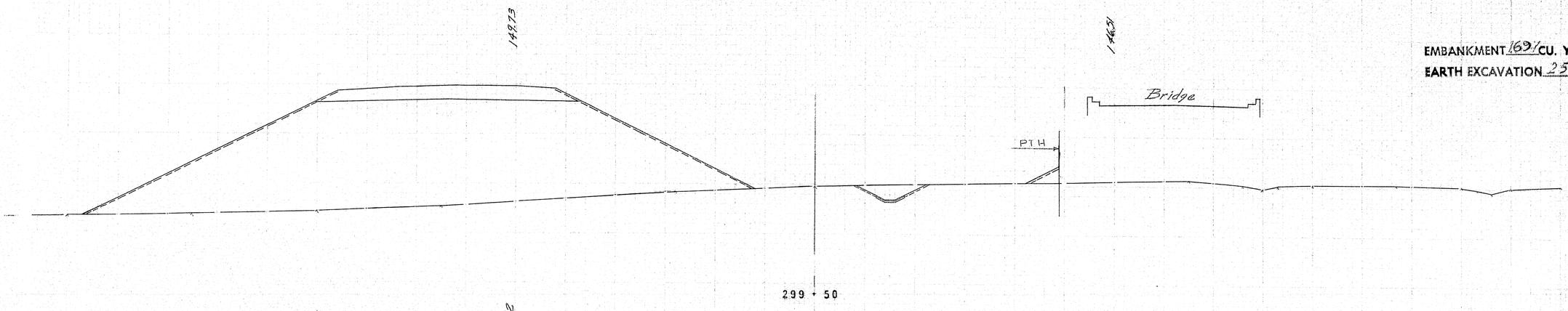
℄

78-23



INTERSTATE #95 - BANGOR

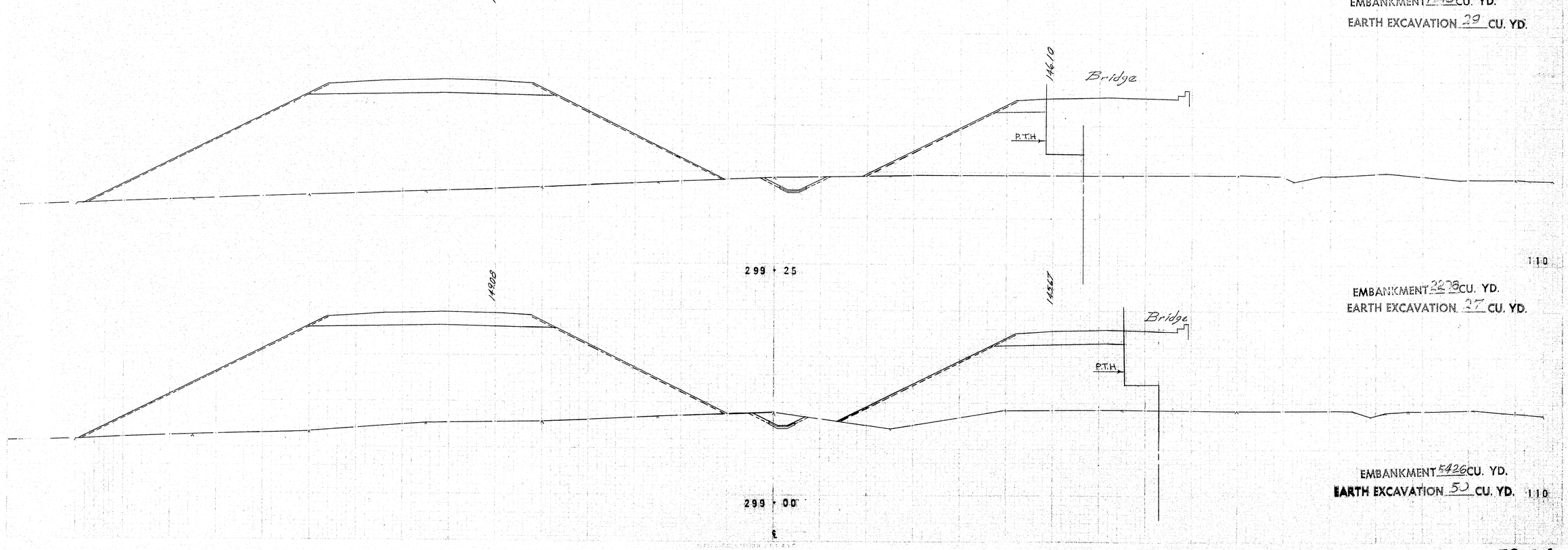
B. P. R. REG. NO	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	24	35



299 + 50

EMBANKMENT 163 CU. YD.
EARTH EXCAVATION 25 CU. YD.

110



299 + 25

110

EMBANKMENT 2228 CU. YD.
EARTH EXCAVATION 27 CU. YD.

299 + 00

EMBANKMENT 5426 CU. YD.
EARTH EXCAVATION 50 CU. YD. 110

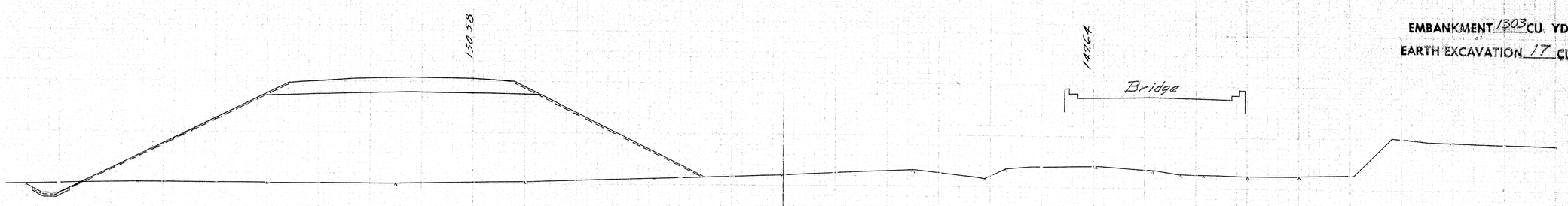
℄

78-24

0 1 2 3 4 5 INCHES

INTERSTATE 95 - BANGOR

B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	25	35

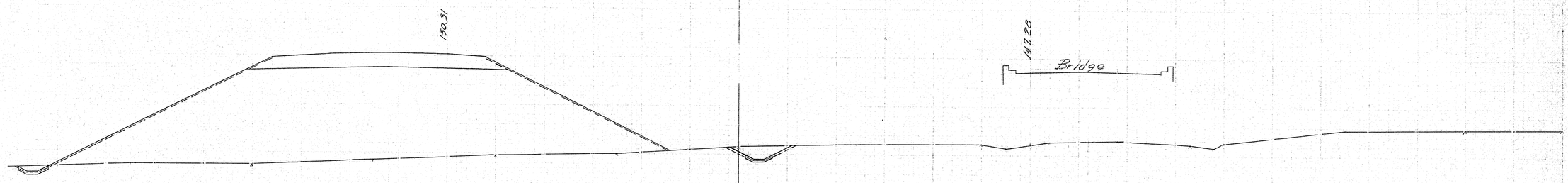


EMBANKMENT 1503 CU. YD.
EARTH EXCAVATION 17 CU. YD.

300 + 25

110

EMBANKMENT 1457 CU. YD.
EARTH EXCAVATION 25 CU. YD.

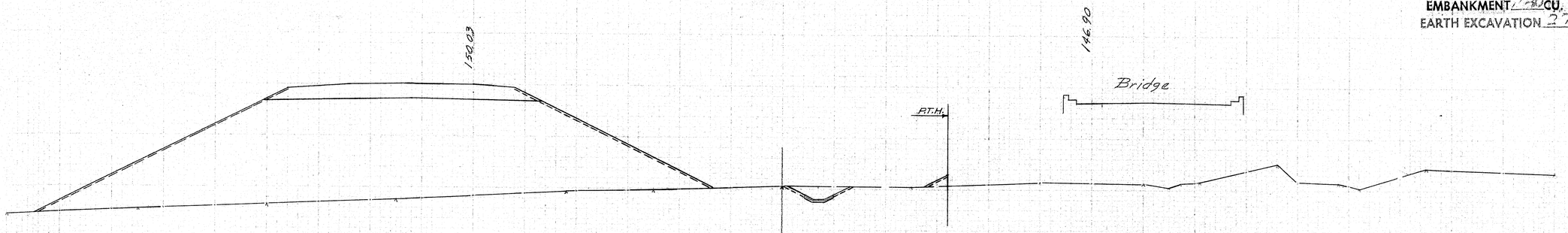


299+90 Southbound to 53+50 Stillwater Ave.
2'x 360' Ditch Sodded from 299+90 to 302+10

300 + 00

110

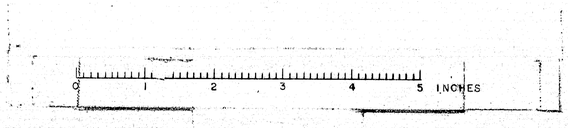
EMBANKMENT 130 CU. YD.
EARTH EXCAVATION 27 CU. YD.



299 + 75

110

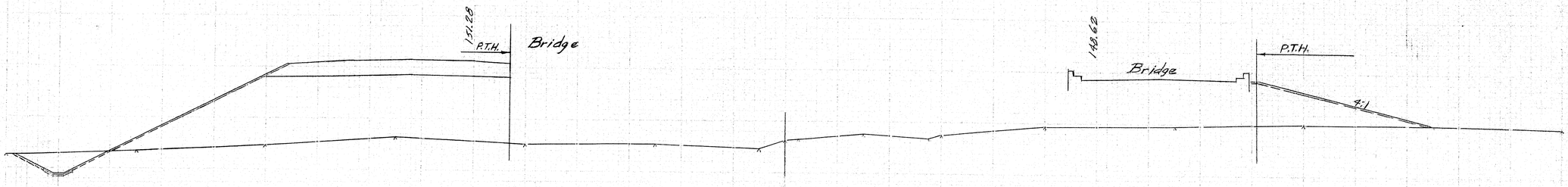
78-25



INTERSTATE 95 - MAINE

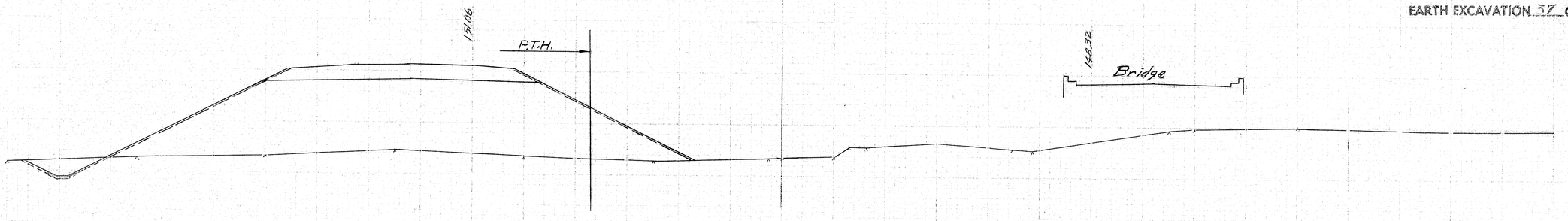
B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	26	35

EMBANKMENT 737 CU. YD.
EARTH EXCAVATION 50 CU. YD.



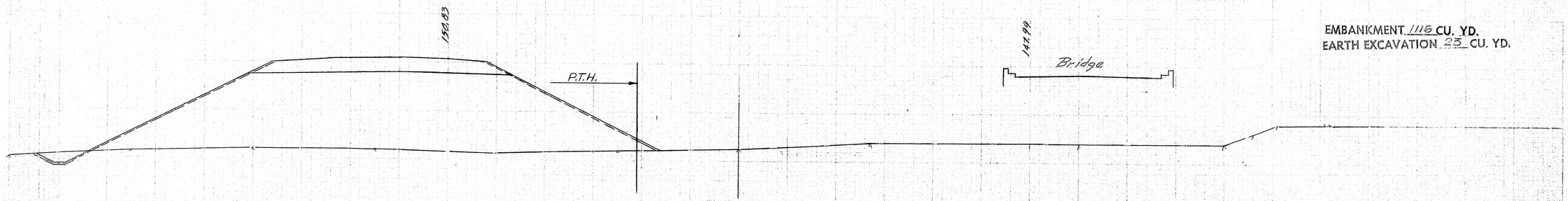
300 + 00

EMBANKMENT 325 CU. YD.
EARTH EXCAVATION 37 CU. YD.



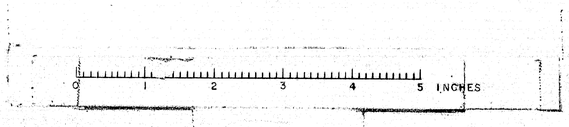
300 + 75

EMBANKMENT 1116 CU. YD.
EARTH EXCAVATION 25 CU. YD.



300 + 50

78-26

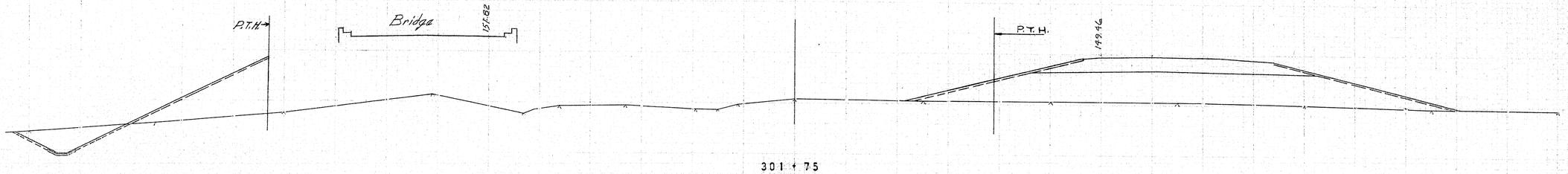


INTERSTATE #95 - BANGOR

B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	27	35

EMBANKMENT 511 CU. YD.

EARTH EXCAVATION 22 CU. YD.

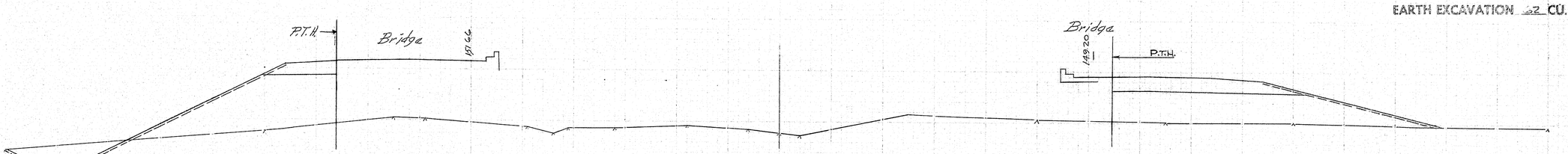


301 + 75

130

EMBANKMENT 540 CU. YD.

EARTH EXCAVATION 22 CU. YD.

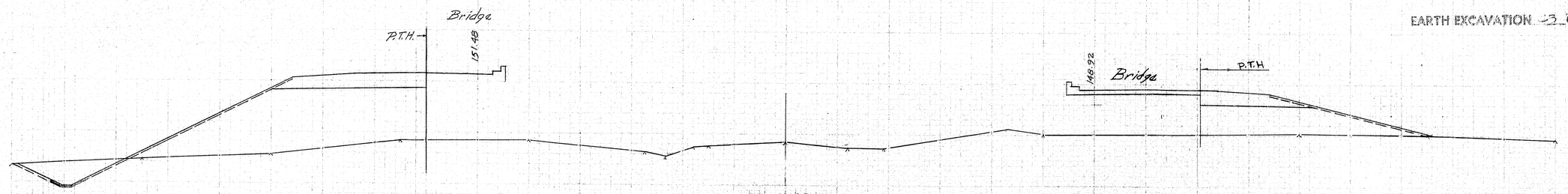


301 + 50

130

EMBANKMENT 530 CU. YD.

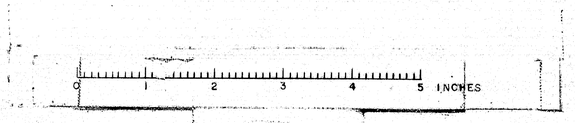
EARTH EXCAVATION 3 CU. YD.



301 + 25

130

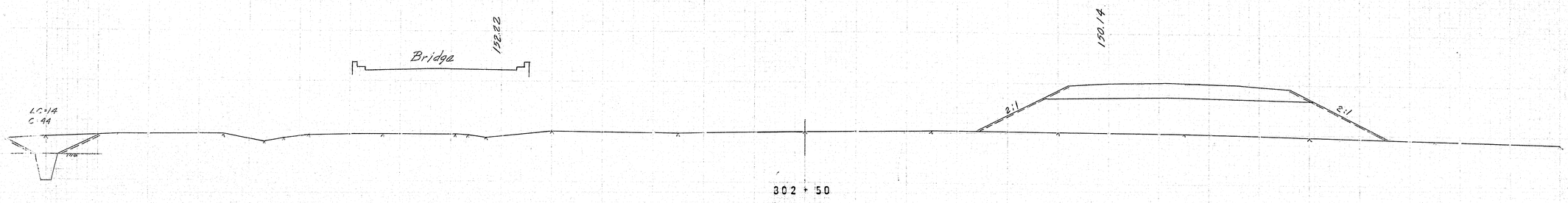
78-27



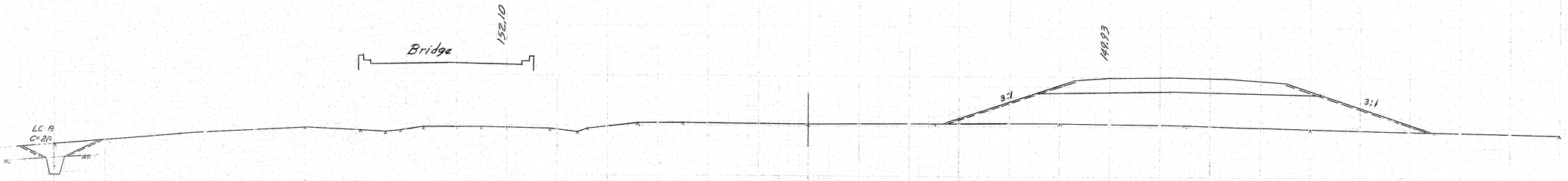
INTERSTATE #95 - BANGOR

B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	28	35

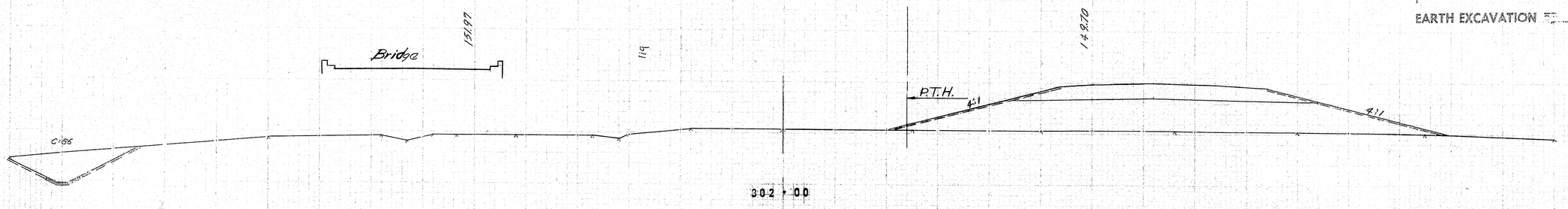
EMBANKMENT 431 CU. YD.
EARTH EXCAVATION 2 CU. YD.



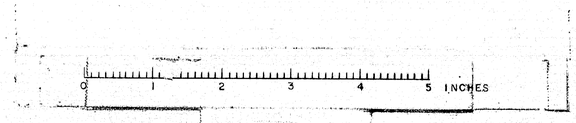
EMBANKMENT 418 CU. YD.
EARTH EXCAVATION 33 CU. YD.



EMBANKMENT 456 CU. YD.
EARTH EXCAVATION 53 CU. YD.

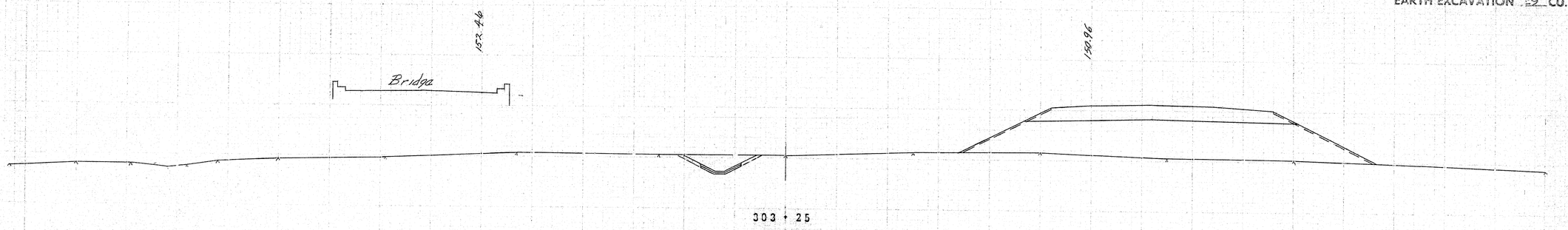


78-28



INTERSTATE #95 - BANGOR

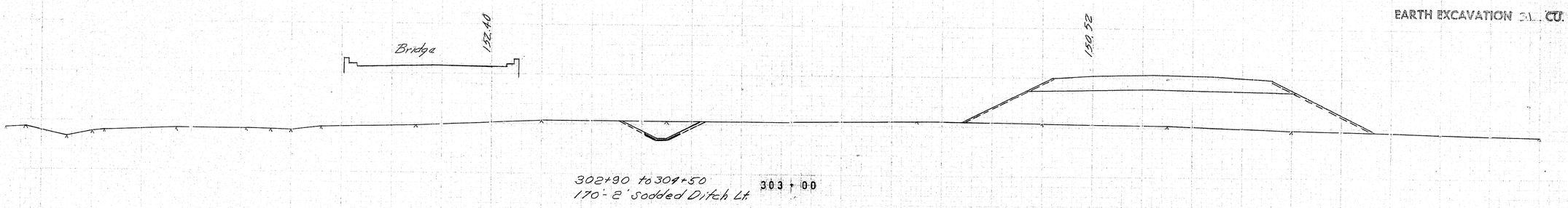
B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	29	35



EMBANKMENT 434 CU. YD.

EARTH EXCAVATION 29 CU. YD.

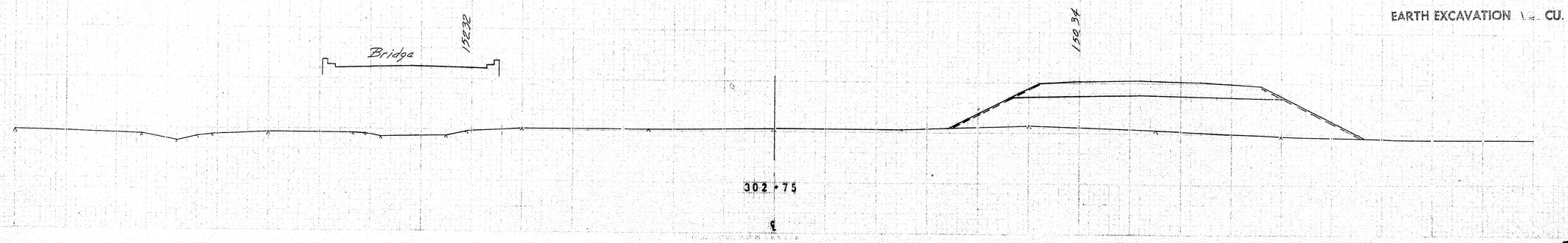
130



EMBANKMENT 141 CU. YD.

EARTH EXCAVATION 31 CU. YD.

130

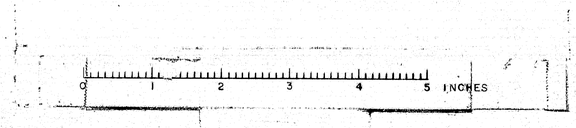


EMBANKMENT 130 CU. YD.

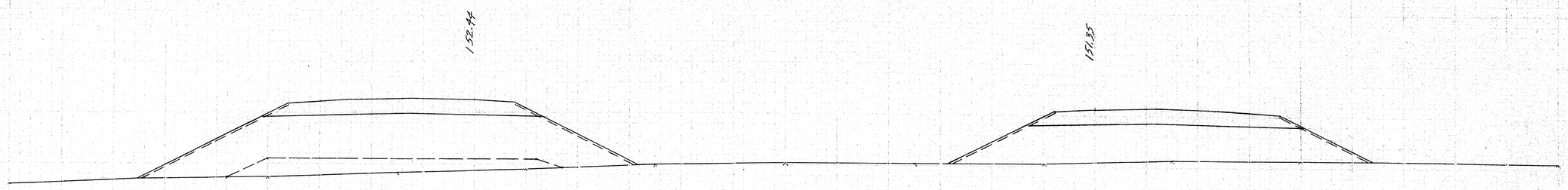
EARTH EXCAVATION 12 CU. YD.

130

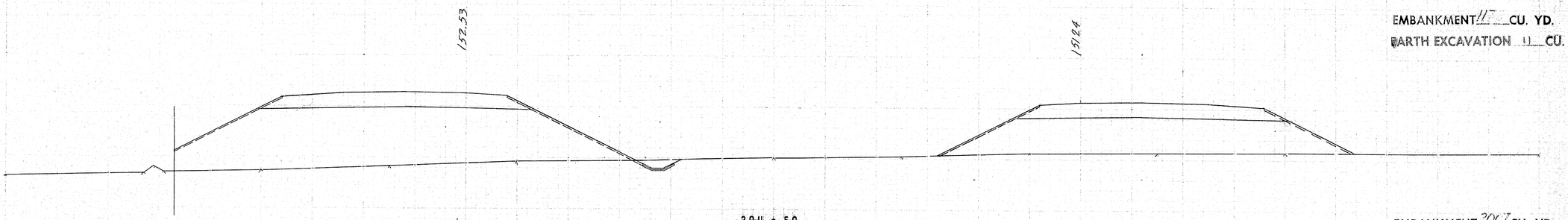
78-29



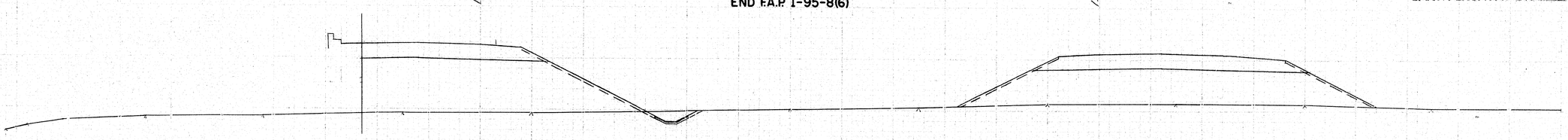
B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	30	35



305 + 00
305+00
LIMIT OF WORK



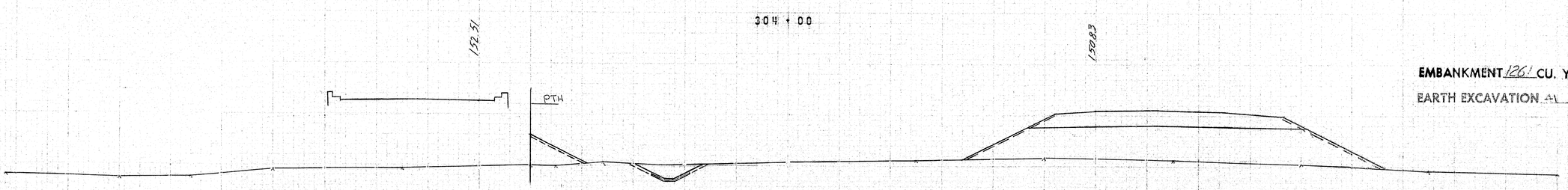
EMBANKMENT 11 CU. YD.
EARTH EXCAVATION 0 CU. YD.



304 + 50
304+50
END F.A.P. I-95-8(6)

EMBANKMENT 307 CU. YD.
EARTH EXCAVATION 66 CU. YD.

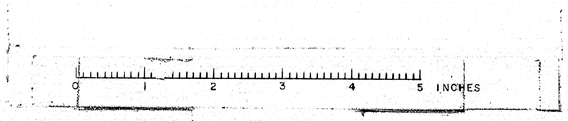
304 + 00



EMBANKMENT 126 CU. YD.
EARTH EXCAVATION 41 CU. YD.

303 + 50
℄

78-30



B. P. R. REG. NO	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	31	35

PITTSFIELD INT. - INTERSTATE 95 - RAMP

70-31

Survey

LIMIT OF WORK
51 + 10

51 + 10

110

12172

℄

EARTH EXCAVATION 126 CU. YD.

51 + 50

110

R.O.W.

12236

℄

R.O.W.

EARTH EXCAVATION 206 CU. YD.

52 + 00

110

R.O.W.

12515

℄

44'

R.O.W.

EARTH EXCAVATION 248 CU. YD.

52 + 50

110

R.O.W.

12394

℄

69'

R.O.W.

EARTH EXCAVATION 363 CU. YD.

53 + 00

110

R.O.W.

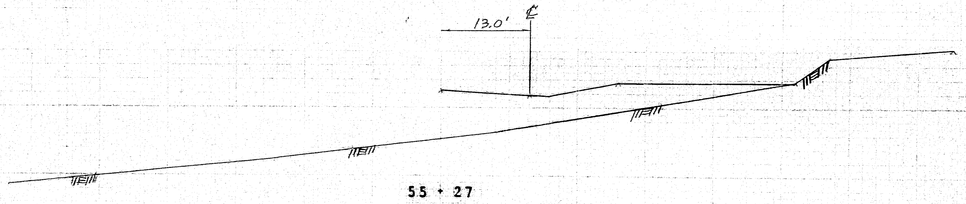
12473

℄

94'

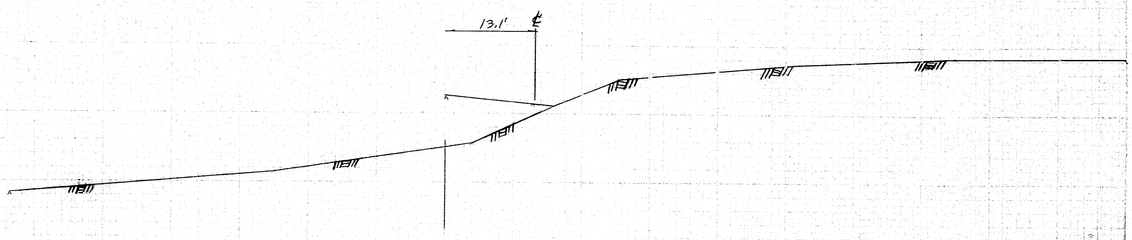
R.O.W.

INCHES



55 + 27

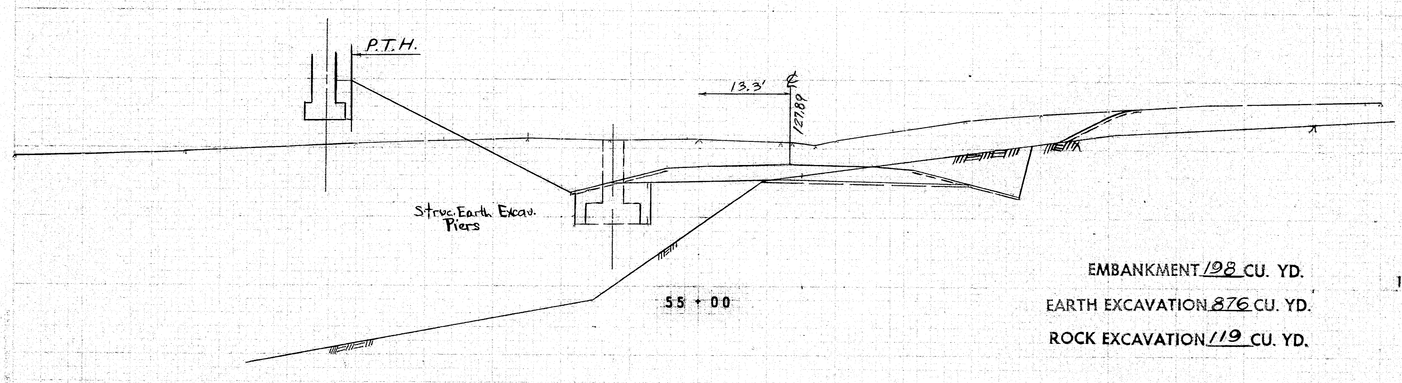
120



55 + 23

110

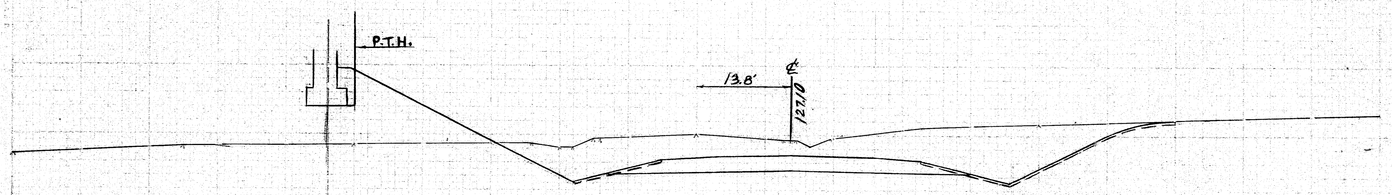
Survey



55 + 00

110

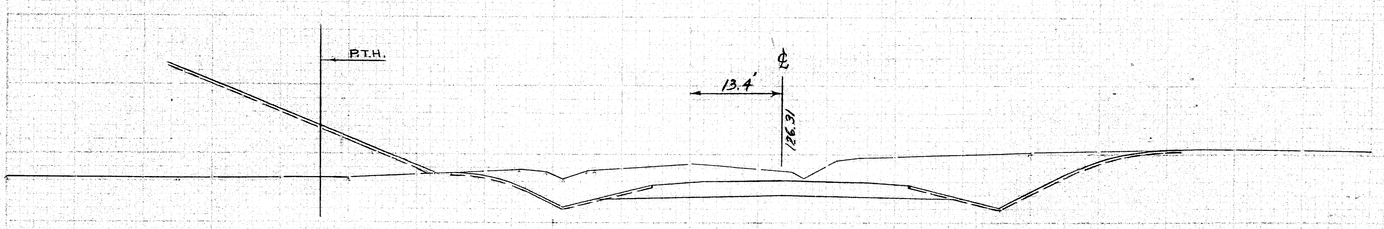
EMBANKMENT 198 CU. YD.
EARTH EXCAVATION 876 CU. YD.
ROCK EXCAVATION 119 CU. YD.



54 + 50

110

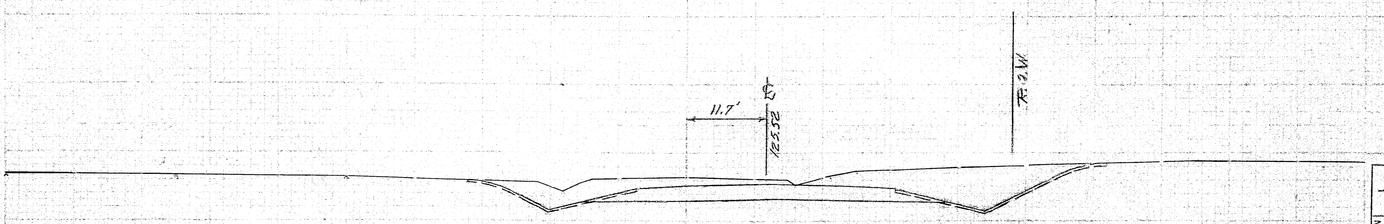
EMBANKMENT 181 CU. YD.
EARTH EXCAVATION 859 CU. YD.



54 + 00

110

EMBANKMENT 59 CU. YD.
EARTH EXCAVATION 689 CU. YD.



53 + 50

110

EARTH EXCAVATION 500 CU. YD.

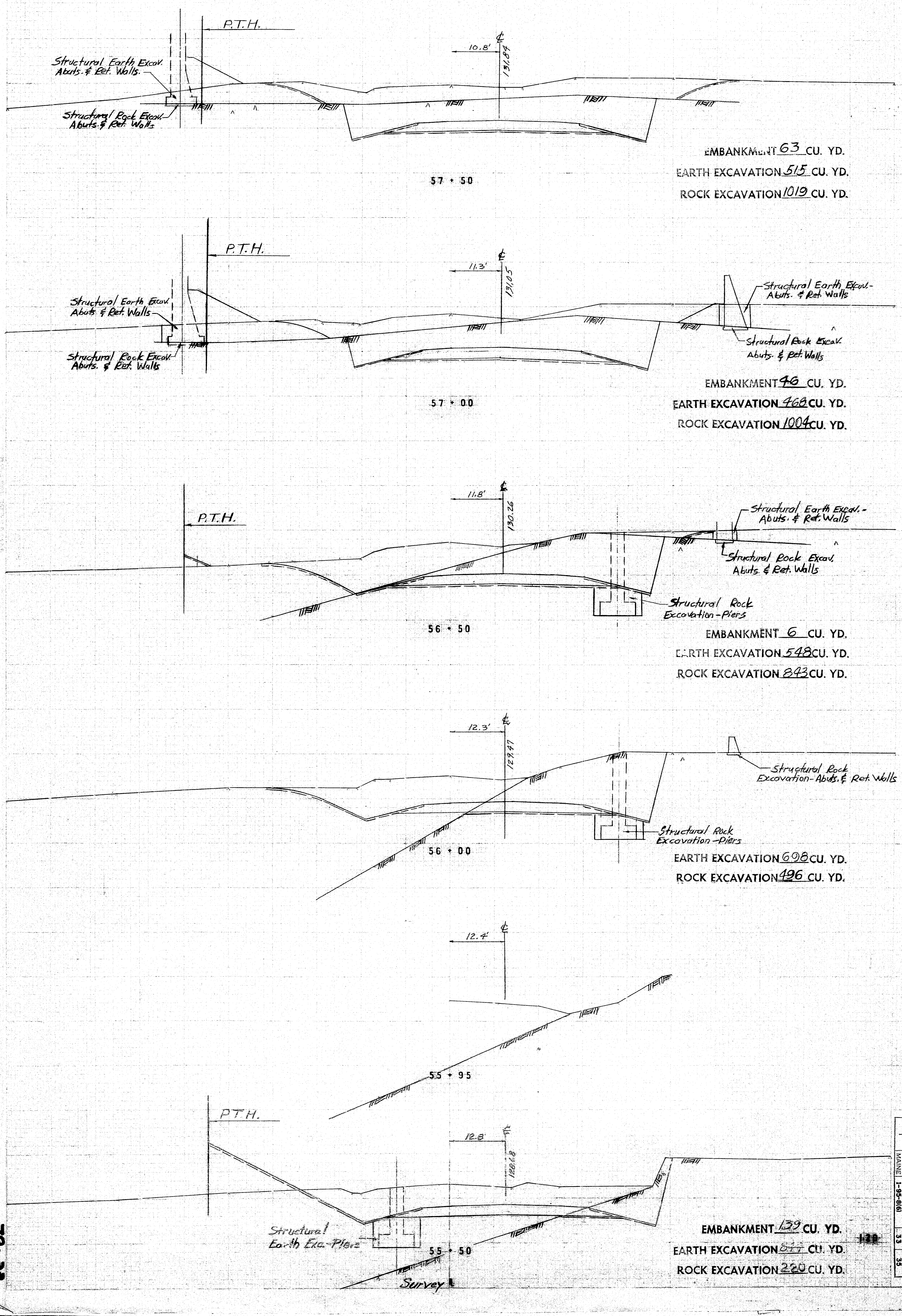
B. S. H. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	32	35

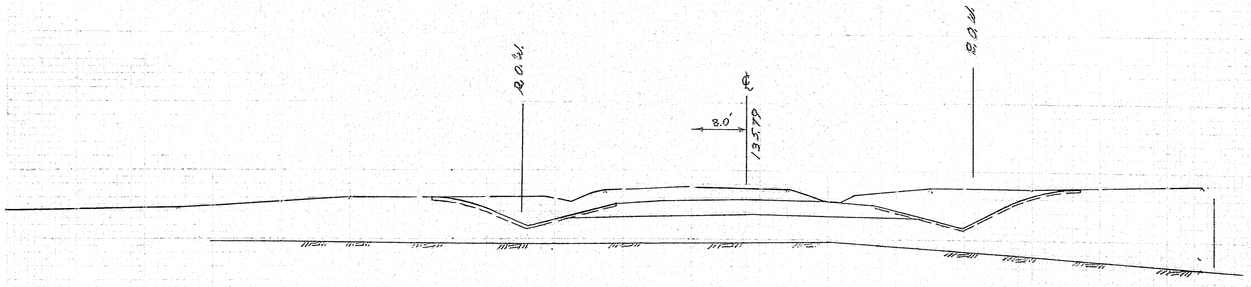
STILLWATER-ME. - INTERSTATE 95 - [illegible]

76-32

Survey

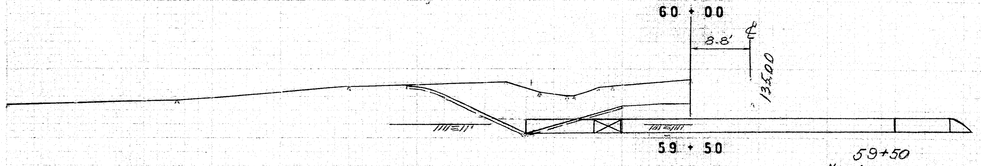
B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	33	35


P.T.H.
10.8'
131.84
Structural Earth Excav. Abuts. & Ret. Walls.
Structural Rock Excav. Abuts. & Ret. Walls
57 + 50
EMBANKMENT 63 CU. YD.
EARTH EXCAVATION 515 CU. YD.
ROCK EXCAVATION 1019 CU. YD.
120
P.T.H.
11.3'
131.05
Structural Earth Excav. Abuts. & Ret. Walls
Structural Rock Excav. Abuts. & Ret. Walls
Structural Earth Excav. - Abuts. & Ret. Walls
Structural Rock Excav. Abuts. & Ret. Walls
57 + 00
EMBANKMENT 46 CU. YD.
EARTH EXCAVATION 468 CU. YD.
ROCK EXCAVATION 1004 CU. YD.
120
P.T.H.
11.8'
130.26
Structural Earth Excav. - Abuts. & Ret. Walls
Structural Rock Excav. Abuts. & Ret. Walls
Structural Rock Excavation - Piers
56 + 50
EMBANKMENT 6 CU. YD.
EARTH EXCAVATION 548 CU. YD.
ROCK EXCAVATION 843 CU. YD.
120
12.3'
129.47
Structural Rock Excavation - Abuts. & Ret. Walls
Structural Rock Excavation - Piers
56 + 00
EARTH EXCAVATION 698 CU. YD.
ROCK EXCAVATION 496 CU. YD.
120
12.4'
55 + 95
120
P.T.H.
12.8'
128.8
Structural Earth Exc. - Piers
55 + 50
Survey
EMBANKMENT 139 CU. YD.
EARTH EXCAVATION CU. YD.
ROCK EXCAVATION 220 CU. YD.
120



120

60 + 00



59 + 50

EMBANKMENT____CU. YD.

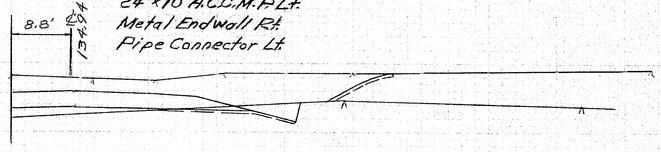
EARTH EXCAVATION 1033 CU. YD.

ROCK EXCAVATION____CU. YD.

130

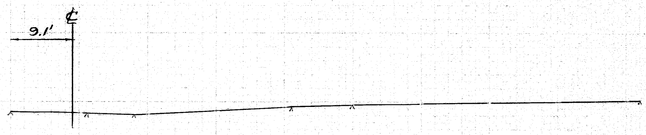
59+50

24"x8' A.C.C.M.P. Rt.
24"x40' R.C.P. Roadway
24"x10' A.C.C.M.P. Lt.
Metal Endwall Rt.
Pipe Connector Lt.



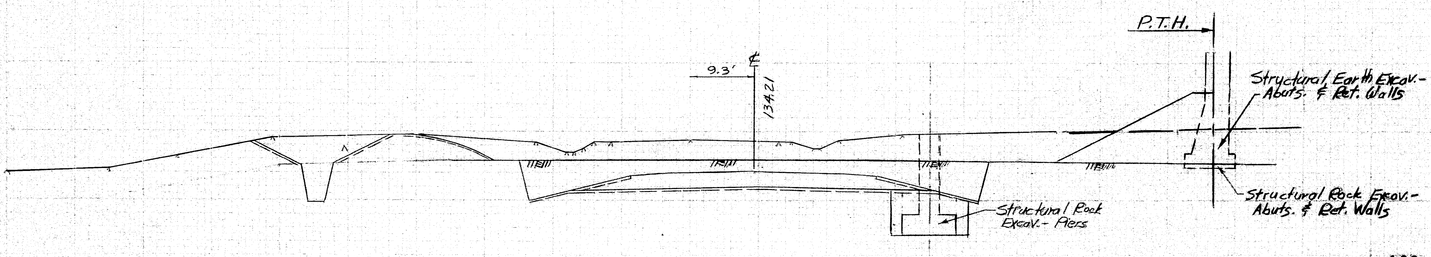
59 + 46

120



59 + 16

120



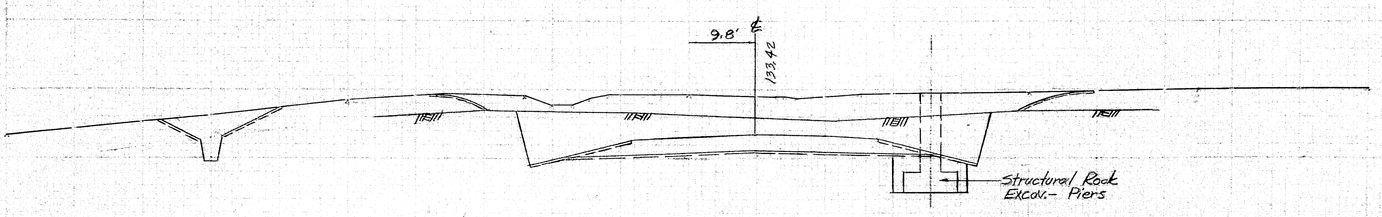
59 + 00

120

EMBANKMENT 39 CU. YD.

EARTH EXCAVATION 446 CU. YD.

ROCK EXCAVATION 641 CU. YD.

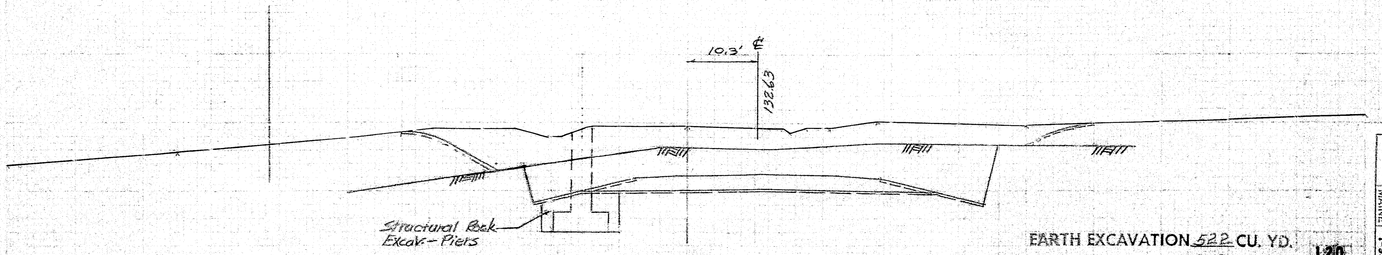


58 + 50

120

EARTH EXCAVATION 413 CU. YD.

ROCK EXCAVATION 787 CU. YD.



58 + 00

120

EARTH EXCAVATION 522 CU. YD.

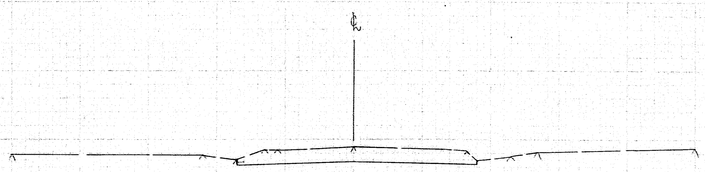
ROCK EXCAVATION 898 CU. YD.

B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	34	35

STILLWATER AVE. - INTERSTATE 95 - BANGOR

Survey

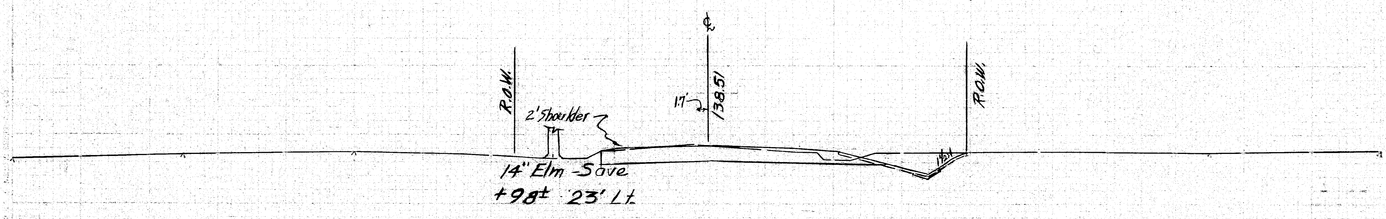
78-34



62+50
LIMIT OF WORK

120

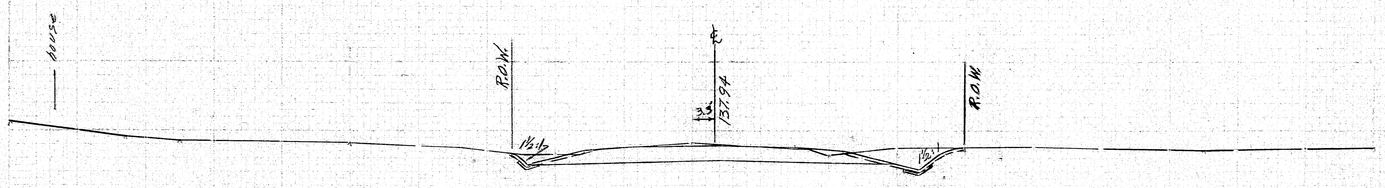
EARTH EXCAVATION 157 CU. YD.



62 + 00

120

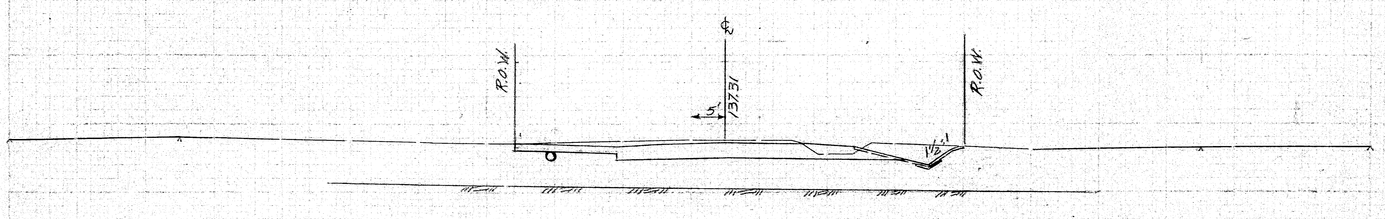
EARTH EXCAVATION 222 CU. YD.



61 + 50

120

EARTH EXCAVATION 248 CU. YD.



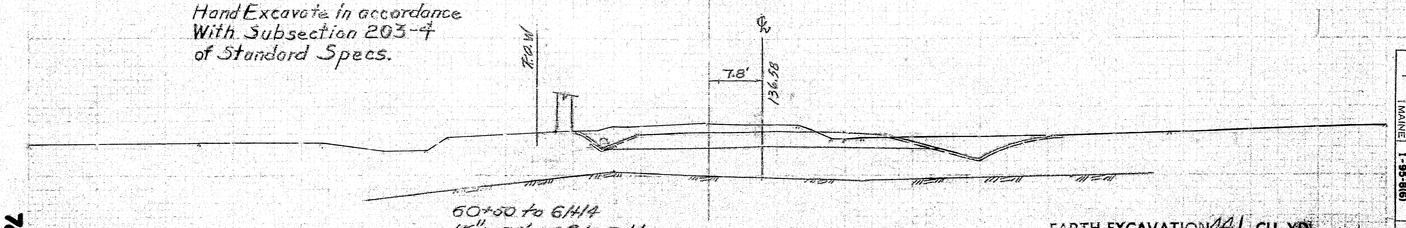
61 + 00

120

EARTH EXCAVATION 294 CU. YD.

Note:
Where trees are to be Saved Hand Excavate in accordance With Subsection 203-4 of Standard Specs.

16" Elm +78± 28' Lt. - Save
18" Elm +54± 30' Lt. - Save



60+50 to 61+14
15" x 64' A.C.M.P. Lt.

EARTH EXCAVATION 441 CU. YD.

120

60 + 50

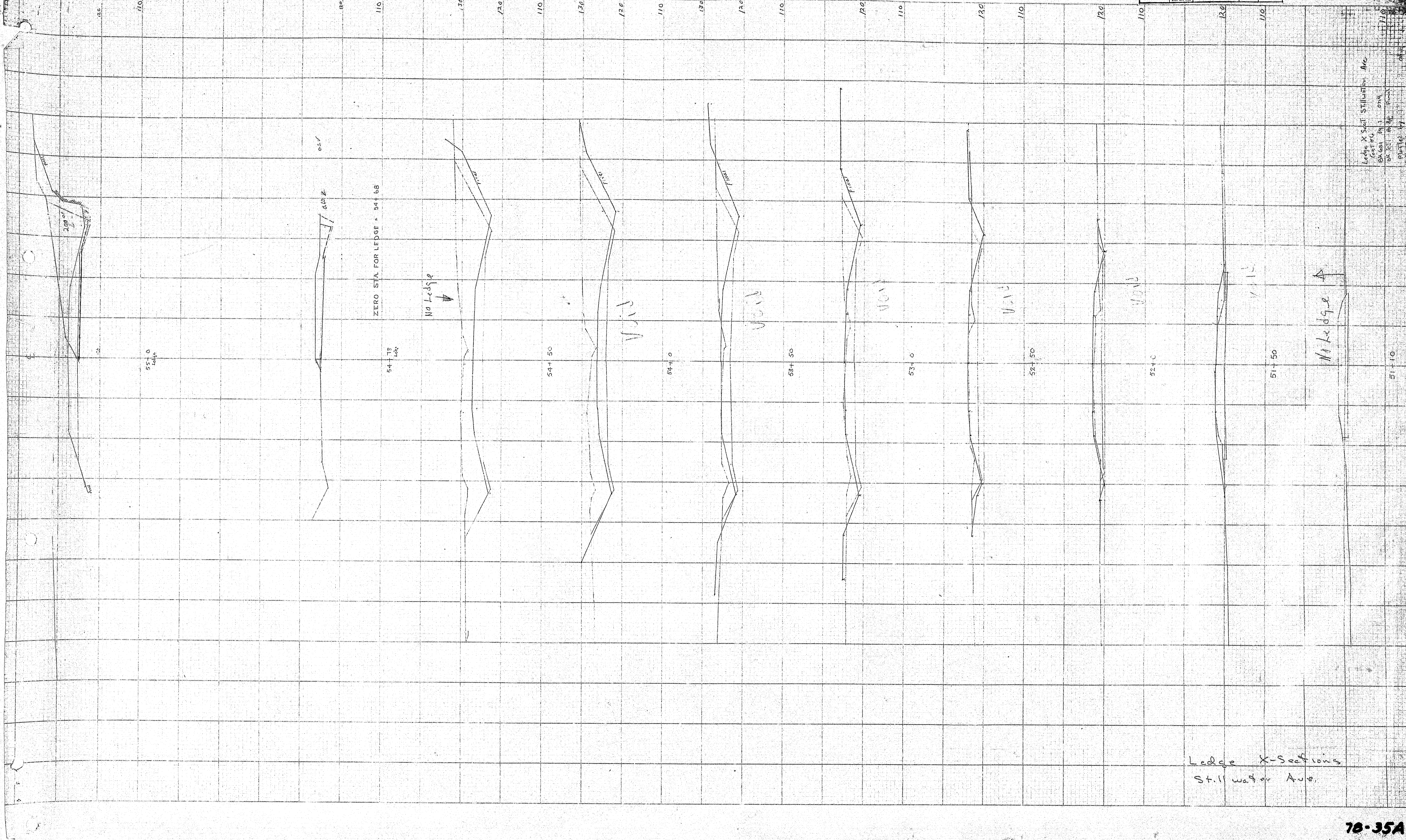
Survey

D.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	35	36

STILLWATER AVE. - INTERSTATE 95 - BANGOR

76-35

B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-3(6)120	1	10



78-35A

B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.
	MAINE	E-95-8(6)180	

Ledge X-Sections
Stillwater Ave.

78-35 B

B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(6)180	3	10

Ledge X-Sections
Stillwater Ave.

78-35C

B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
11.	MAINE	F-95-8(6)160	4	10

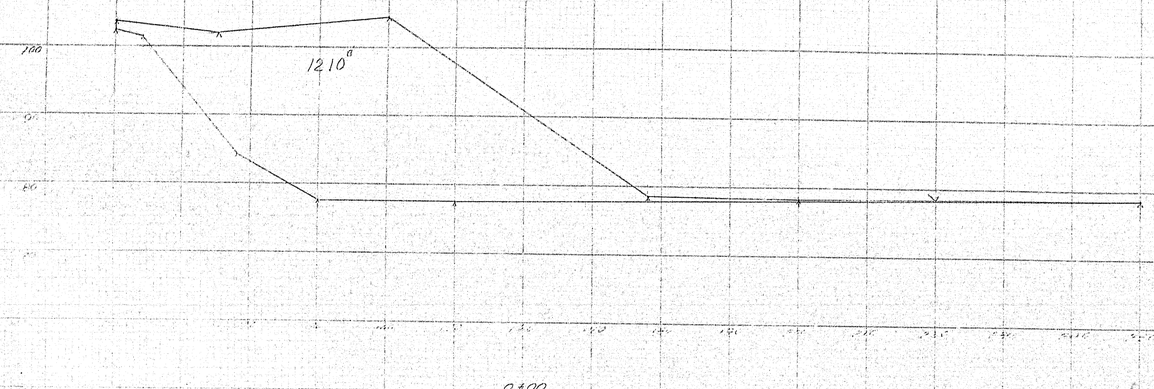
FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TITLE		
AREAS		
NOTE BOOK	AREAS CHECKED	
NO.		

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

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
100% RAG PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

78-35D

B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
.1.	MAINE	I-95-8(6)150	5	10



Note: "0" Section 10' back from Pt. 0+00 (estimated)

THE CLARKESON ENG. CO
original and final x sections

B & A pit #2
I-95-8(6)150

NOTE: ORIGINAL SECTIONS TAKEN FROM BK# 1852 PG. 140

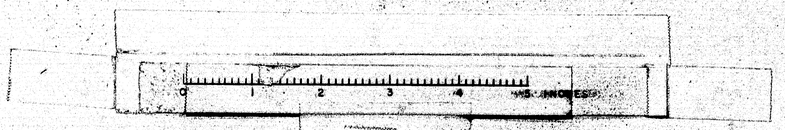
Original ? Final
(plotted by - GLC
(checked by - JRA JHT
PL by - JHT

ORIGINAL X SECT BK 651 PG 22
FINAL X SECT BK 551 Pg 21
PL JHT
PL 2 DAM

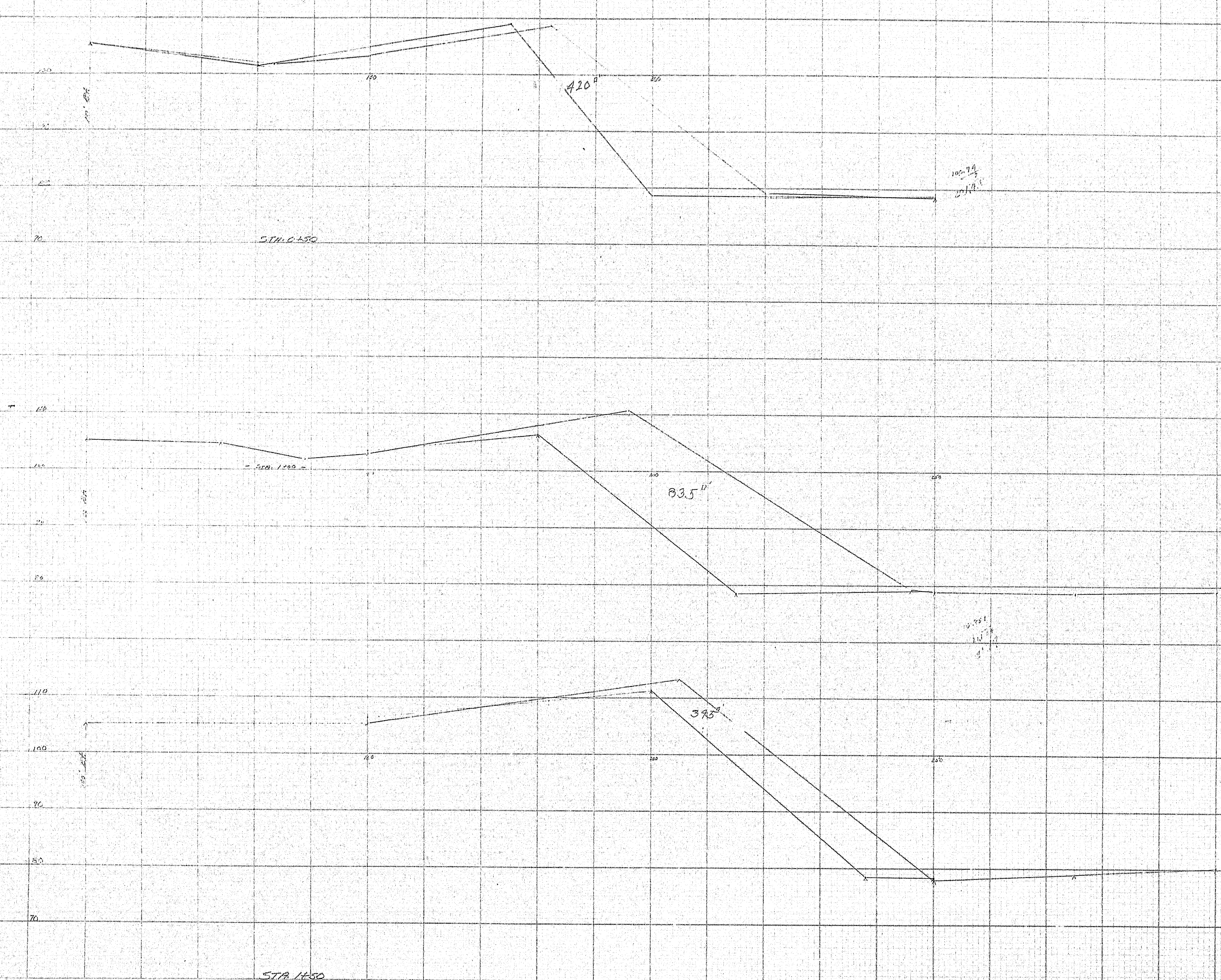
78-35 E

PRINTED IN U.S.A.
ON 100% RAG PAPER MADE IN U.S.A.

"PERFECT" CROSS SECTION
10 X 10 - ONE INCH
EUGENE DIETZGEN CO



B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-2(6)180	6	10



NOTE: ORIGINAL SECTIONS TAKEN FROM BK #1852 PG 140

THE CLARKESON ENG. CO.
original and final x. sections
B&A pit #2
I-95-3(6)-180

original { plotted by -
{ final { checked by - JNT
PL by JNT
PL ✓ D.A.M.

ORIG. X SECTIONS
NEW B&A PIT

Scale 1" Vert. = 10
1" Horiz. = 10

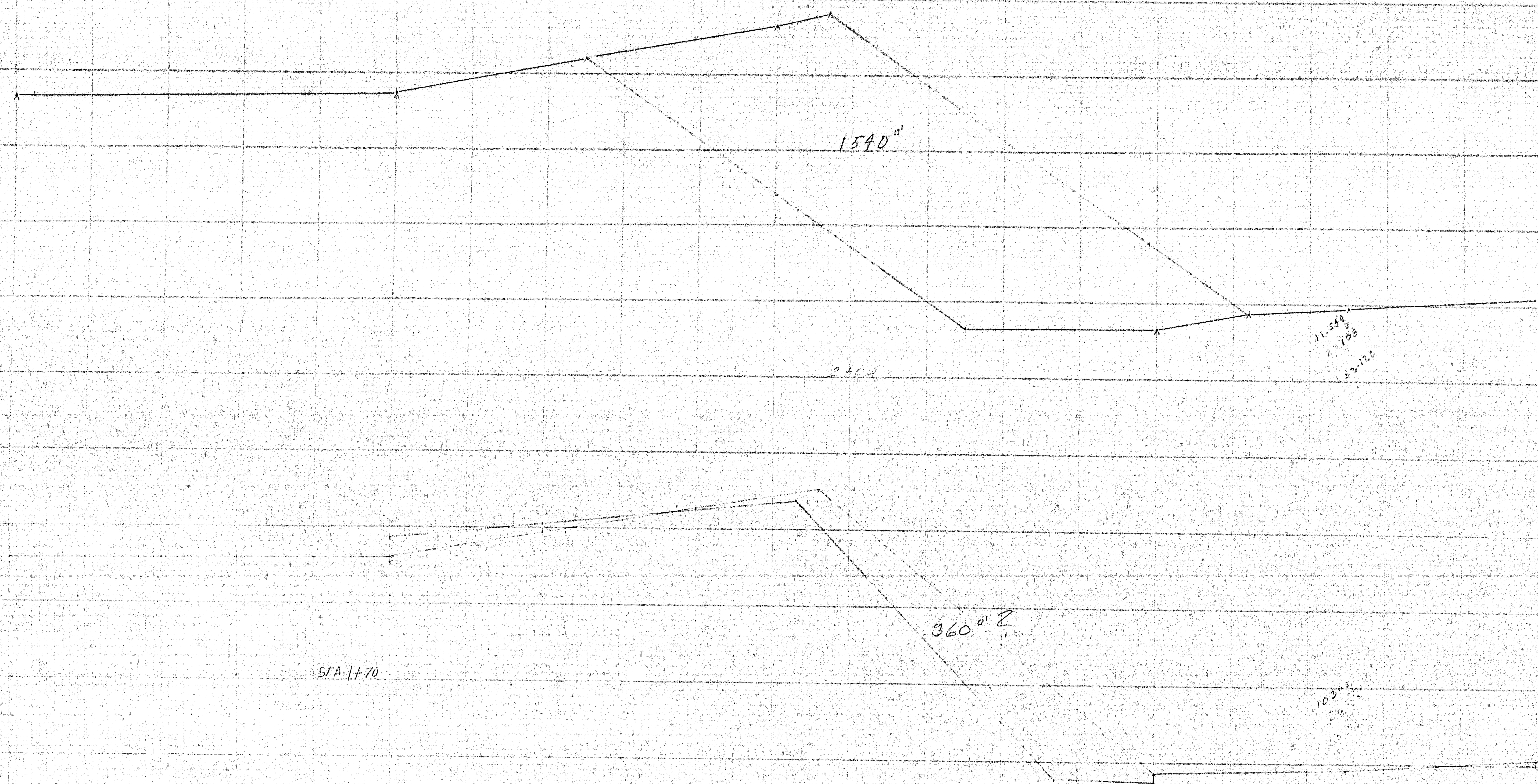
ORIGINAL X SECT BK 651 pg 22
FINAL X SECT BK 651 pg 21

"PERFECT" cross section 10 X 10 = ONE INCH EUGENE DIETZGEN CO.

PRINTED IN U.S.A. ON 100% RAG PAPER MADE IN U.S.A.

78-35 F

B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)180	7	10



NOTE: ORIGINAL SECTIONS TAKEN FROM BK #1852 PG 140

THE CLARKESON ENG CO.
original and final X sections
B & A pit #2
I-95-8-(6)-180

original & Final: plotted by ~ D.A.M.; checked by ~ J.H.T.
PL by: J.H.T.
PL ✓: D.A.M.

ORIGINAL X SECT BK 651 PG 22
FINAL X BK 651 PG 21

78-35 G

B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)180	8	10

Harris Common Borrow Pit

NOTE: ORIGINAL SECTIONS TAKEN FROM BK # 1852 PG 140

THE CLARKESON ENG. CO.
original and final x sections
Harris common borrow pit
I-95-8(6)-180

original & Final	plotted by	- J.P. Cameron
	checked by	- J.A.T.
	PL by	J.H.T.
	PL ✓	D.A.M.

78-35 H

B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-3(6) 180	9	10

THE CLARKESON ENG. CO.
original and final x sections
[illegible]
I-95-3(6)-180

NOTE: ORIGINAL SECTIONS TAKEN FROM BK #1852 PG. 140
Sections are

original	plotted by	[illegible]
& final	checked by	J. H. T.
	PL by	J. H. T.
	PL ✓	D.A.M.

78-35 I

B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1.	MAINE	I-95-9(16)150	10	10

O section Sta. 5+10

993

5+00

2073

4+70

1347

1715

4+50

1550

1494

4+00

NOTE: ORIGINAL SECTIONS TAKEN FROM BK 1852 PG 140

THE CLARKESON ENG. CO
original and final x sections
Harris common borrow pit
I-95-9(16)-150
Original & Final
plotted by - B.R.Barrett
checked by - J.H.T.
PLOTTED
PLOTTED

"PERFECT" CROSS SECTION 10 X 10 = ONE INCH EUGENE DIETZGEN CO

PRINTED IN U.S.A. ON 100% RAG PAPER MADE IN U.S.A.

78-35

B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)100	1	4

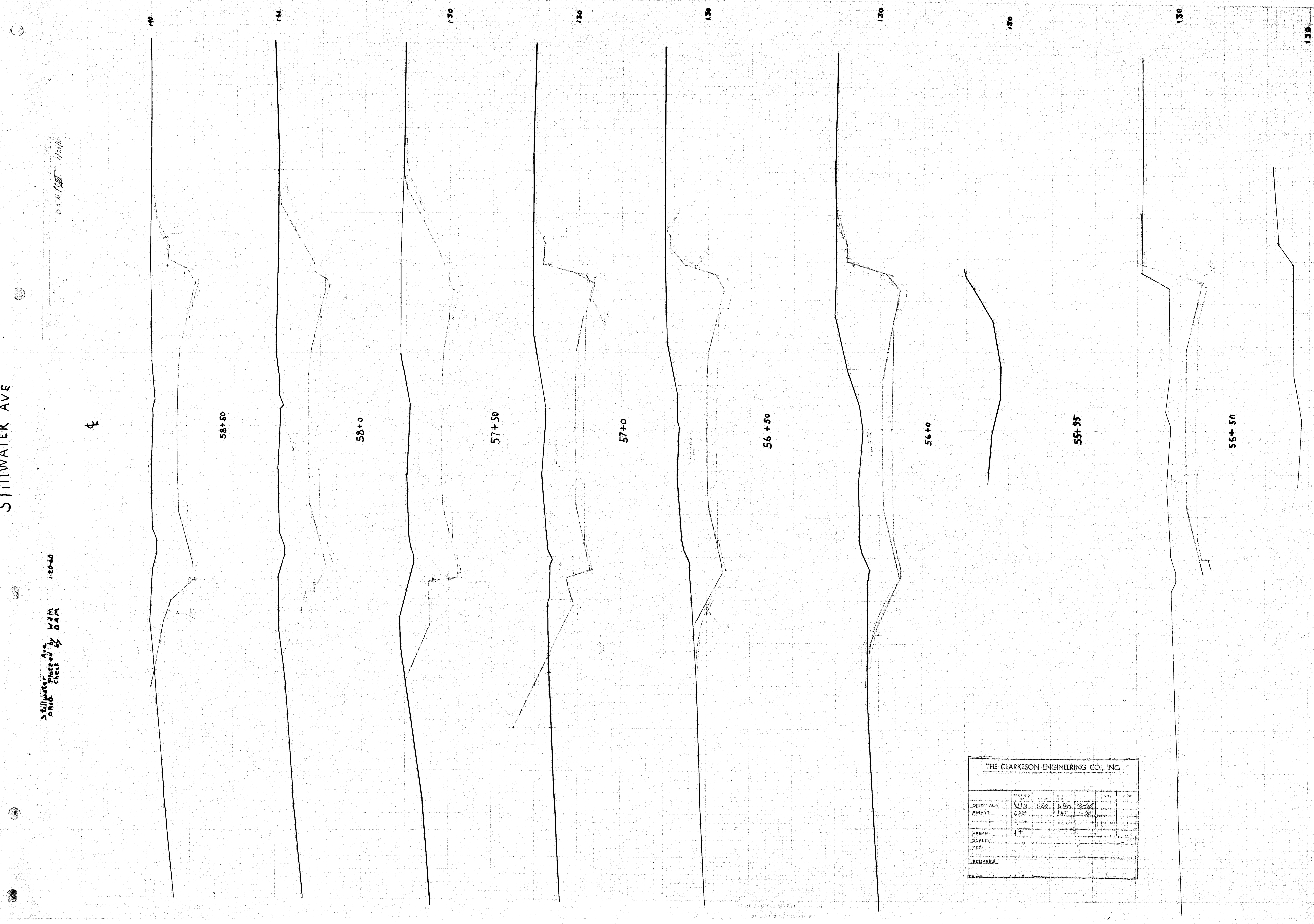
Red Final

Stillwater Ave

78-36

B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)180	2	4

Stillwater Ave

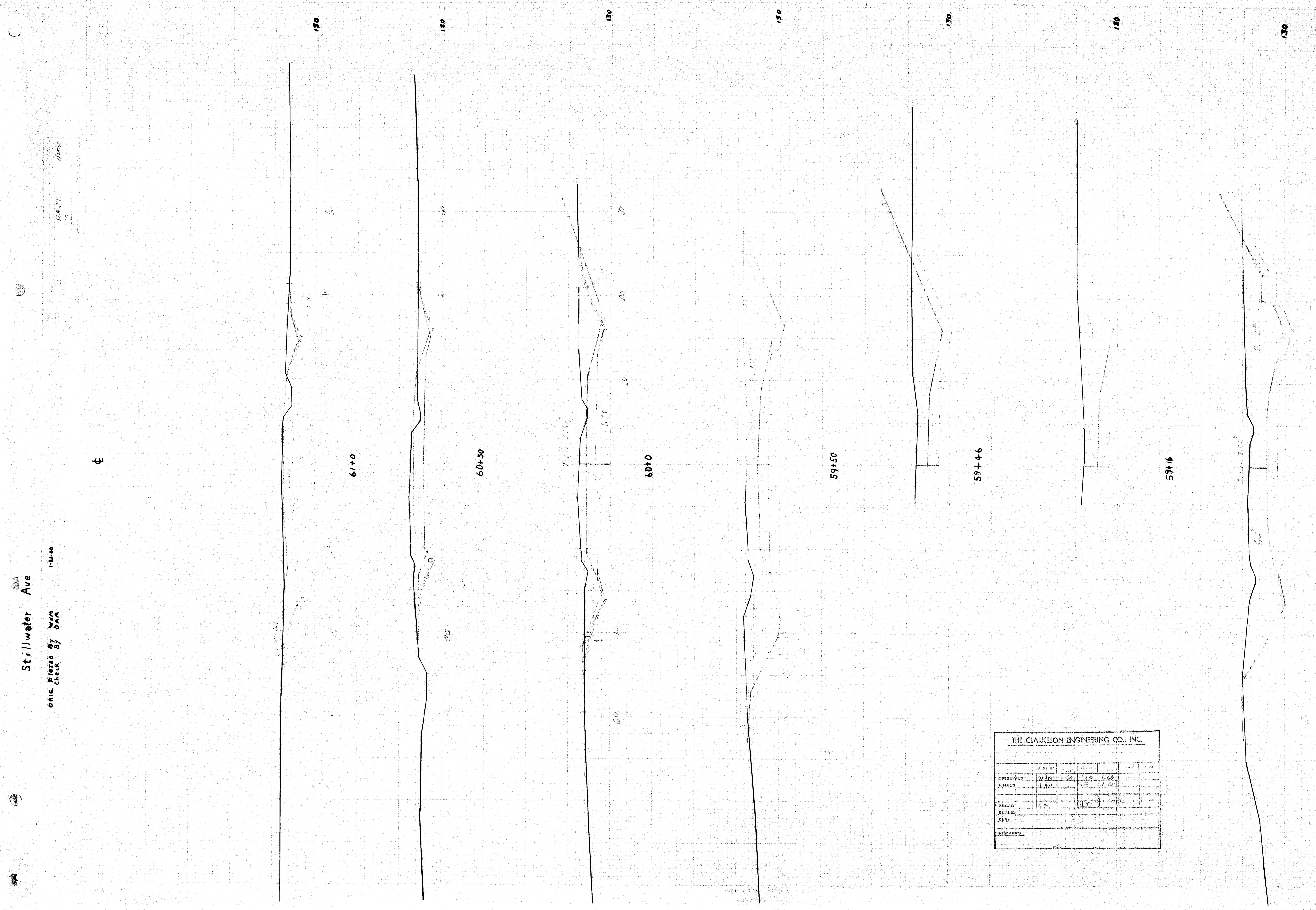


THE CLARKSON ENGINEERING CO., INC.

78-37

Stillwater Ave

F.A.S. PROJ. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)180	3	4



THE CLARKESON ENGINEERING CO., INC.

	PLOT BY	DATE	CHECK	DATE
ORIGINALS	WJM	1-60	DAM	1-60
FINALS	DAM			1-60

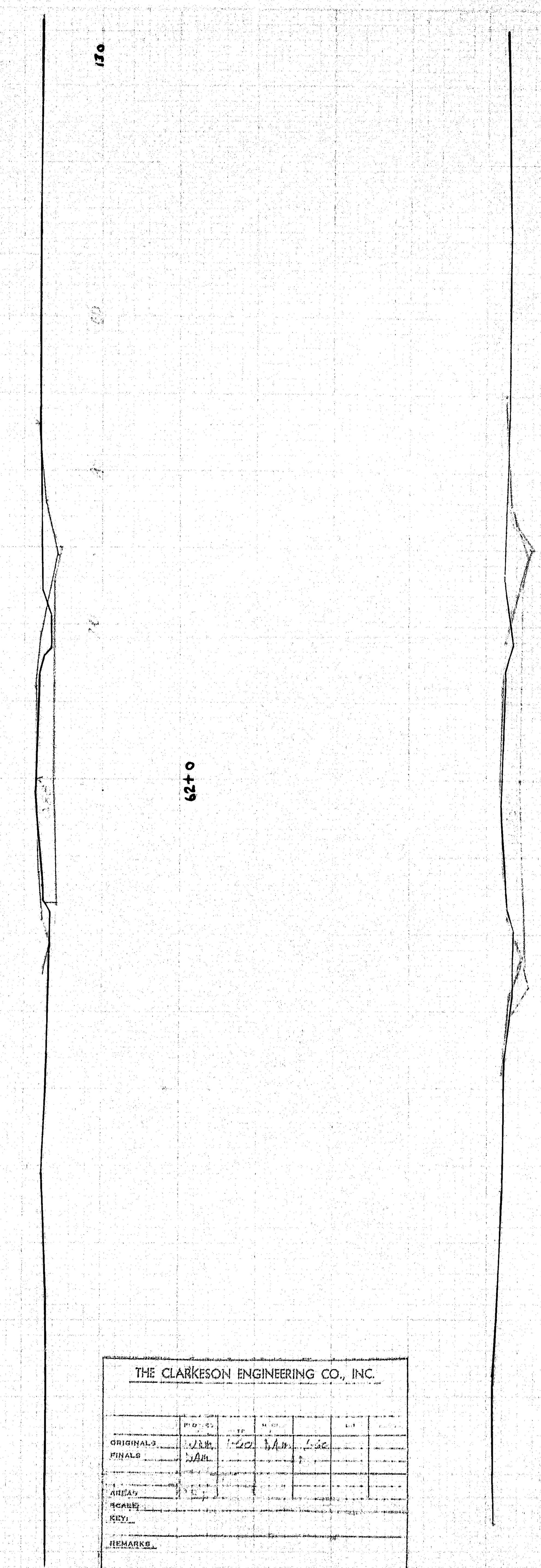
AREAS
SCALES
KEY:
REMARKS

78-38

0 1 2 3 4 5 INCHES

Stillwater Ave.

B.P.R. REG. NO	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)180	4	4



Stillwater Ave

Orig. plotted by WJK
Checked by DAM
1-21-60

THE CLARKESON ENGINEERING CO., INC.

ORIGINALS
FINALS
AREAS
SCALE
KEY
REMARKS

78-39

0 1 2 3 4 5 INCHES