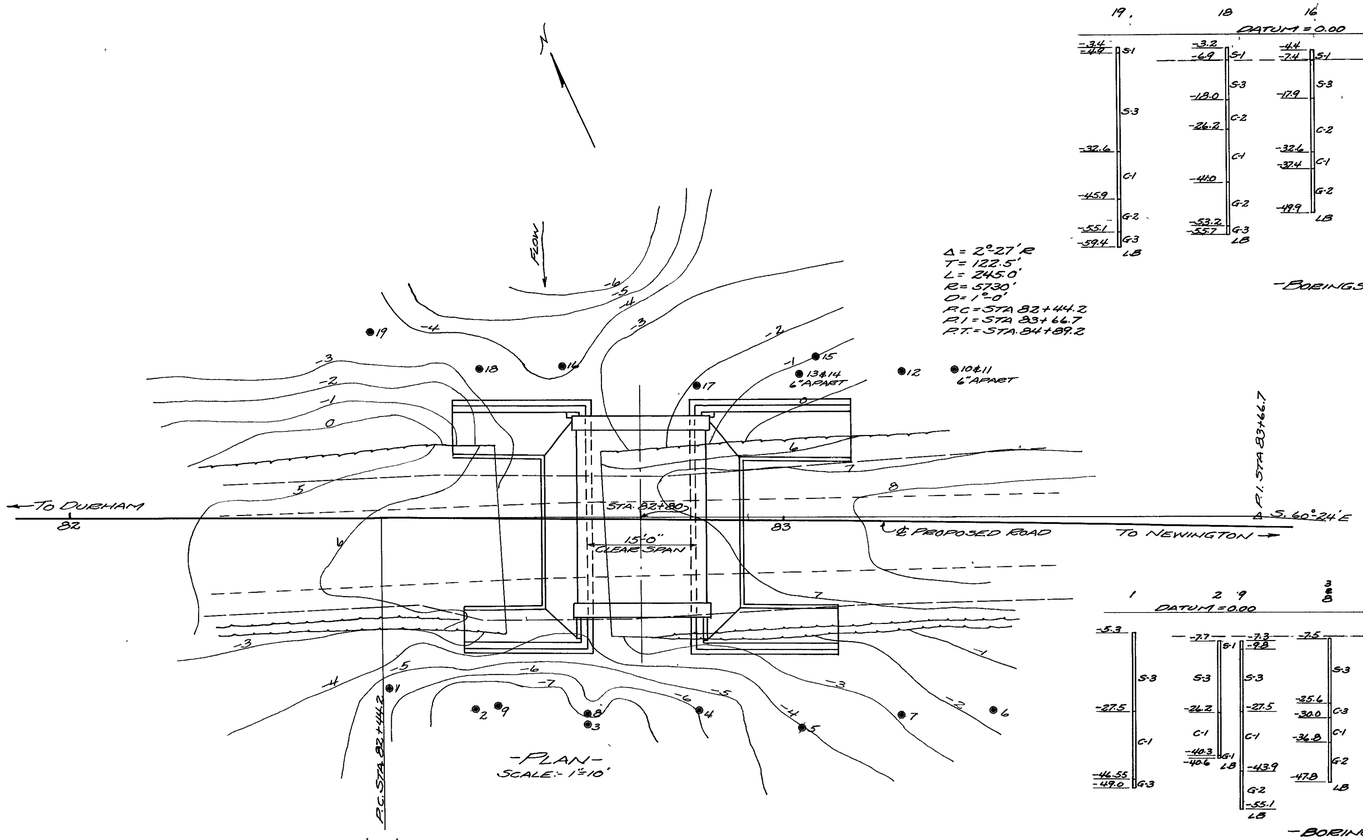
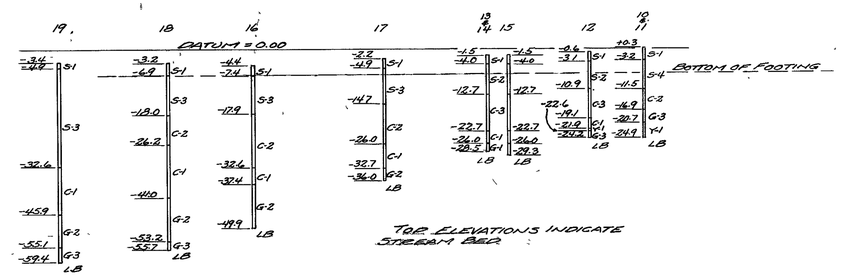
FED ROAD DIST NO	STATE	FED AID PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
9	N. H.	N.R.S. 249	1933	45	48



-PLAN-
SCALE:- 1"=10'

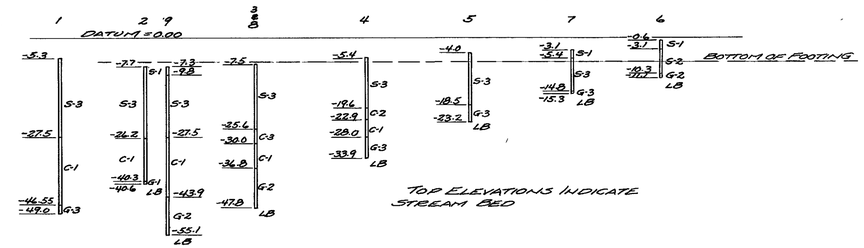


TOP ELEVATIONS INDICATE STREAM BED

-BORINGS AT LEFT OF ℄ ROAD-

-KEY FOR BORING SYMBOLS-

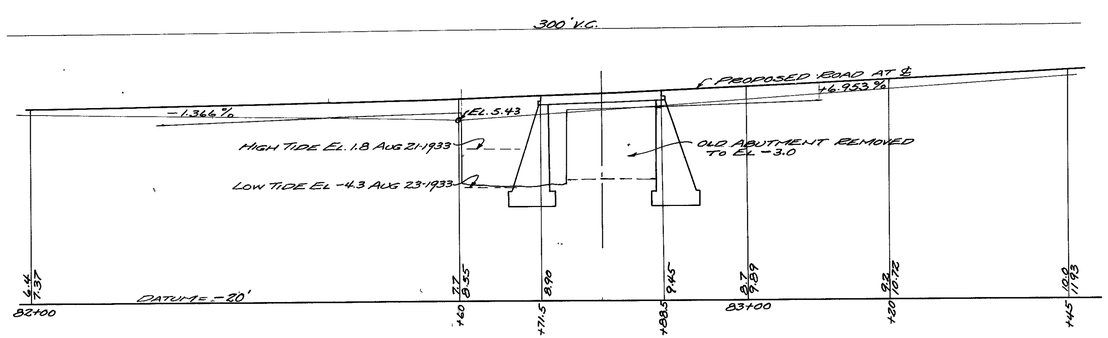
S-1	SILT, SAND, GRAVEL & BOULDERS
S-2	STIFF SILT
S-3	SOFT SILT
S-4	SILT & PEAT
C-1	SOFT BLUE CLAY
C-2	MEDIUM BLUE CLAY
C-3	HARD BLUE CLAY
G-1	UNCEMENTED COURSE SAND & GRAVEL
G-2	FIRM COURSE SAND & GRAVEL
G-3	HARD COURSE SAND & GRAVEL
LB	LEDGE OR BOULDER
Y-1	FIRM YELLOW SAND



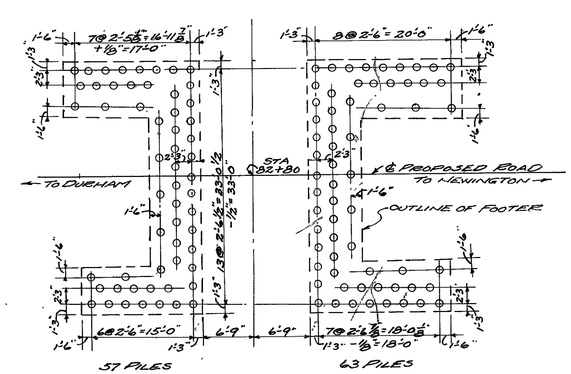
TOP ELEVATIONS INDICATE STREAM BED

-BORINGS AT RIGHT OF ℄ ROAD-

WASH BORINGS TAKEN SEPT. 8-1933
BORINGS TAKEN FOR PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY, BUT DO NOT NECESSARILY SHOW NATURE OF MATERIAL TO BE ENCOUNTERED IN CONNECTION WITH CONSTRUCTION OF THE BRIDGE



-PROFILE-
SCALE:- 1"=10'



57 PILES
63 PILES

PLAN OF PILES
SCALE:- 1"=10'

CORRECT BY John W. Childs DATE 9-20-33
BRIDGE ENGINEER
APPROVED BY D.H. Dickinson DATE 9-20-33
CHIEF ENGINEER

STATE OF NEW HAMPSHIRE
HIGHWAY DEPARTMENT

TOWN DURHAM
PROJECT N.R.S. 249
LOCATION STATION 82+80
ROAD 1ST N.H. TURNPIKE
STREAM BUNKER CREEK
SURVEYED BY F.A.B. DATE 8-21-33
DRAWN BY H.A.E. H.H.E. DATE 9-11-33
TRACED BY H.H.E. DATE 9-16-33
CHECKED BY M.P.S. DATE 9-20-33

SHEET 1 OF 2 SHEETS

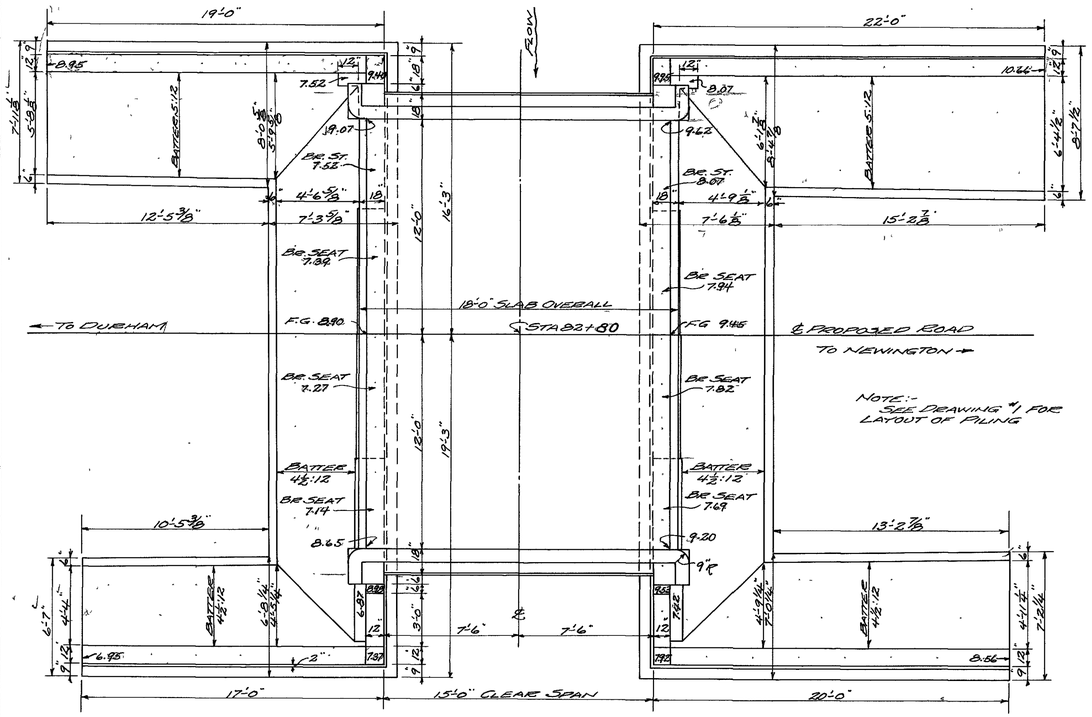
Traced by Date
Checked by Date
Orig. Rev. Orig. Rev. Orig. Rev. Orig. Rev.

~~N 570~~ N 17

FED ROAD DIST NO	STATE	FED AID PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
9	N. H.	N.E.S 247	1933	46	48

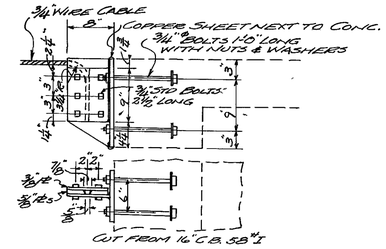
ESTIMATE OF QUANTITIES	
CHANNEL EXCAVATION (ROCK)	50 CU.YDS
CHANNEL EXCAVATION (EARTH)	100 CU.YDS.
STRUCTURE EXCAVATION (EARTH)	370 CU.YDS
STRUCTURE EXCAVATION (ROCK)	5 CU.YDS
CONCRETE CLASS A (3000#) INCLUDES WEARING COURSE	27 CU.YDS
CONCRETE CLASS C (2000#)	275 CU.YDS
REINFORCING STEEL INCLUDES STEEL IN BRIDGE RAIL	4550 LBS
CONCRETE BRIDGE RAIL NOT INCLUDING REIN STEEL	35 LIN FT
ASHLAR MASONRY FACING	440 CU.YDS
SPECIAL CABLE ANCHORAGES	8
TEMPORARY BRIDGE 12' ROAD 10 TON CAPACITY	1
TIMBER PILING	3000 LIN.FT
DISMANTLING PRESENT SUPERSTRUCTURE	1

NOTE:- NO CONCRETE TO BE PLACED UNTIL STEEL HAS BEEN CHECKED BY ENGINEER.
FOOTINGS TO BE CARRIED TO FIRM FOUNDATION AS DIRECTED BY ENGINEER.
ALL EXPOSED CORNERS EXCEPTING CURBS TO BE CHAMFERED 1/2". EDGES OF CURB TO BE ROUNDED WITH EDGING TOOL.
ALL CONCRETE IN SLAB, CURBS AND RAILINGS TO BE CLASS A (3000#) WITH A MINIMUM CEMENT FACTOR OF 1.61.
ALL CONCRETE IN ABUTMENTS AND WINGS TO BE CLASS C (2000#) WITH A MINIMUM CEMENT FACTOR OF 1.30

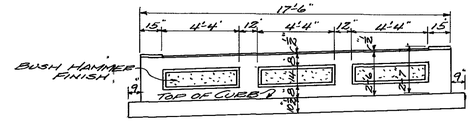


NOTE:- SEE DRAWING #1 FOR LAYOUT OF PILING

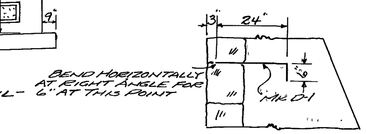
-PLAN-
SCALE:- 1/4"=1'-0"



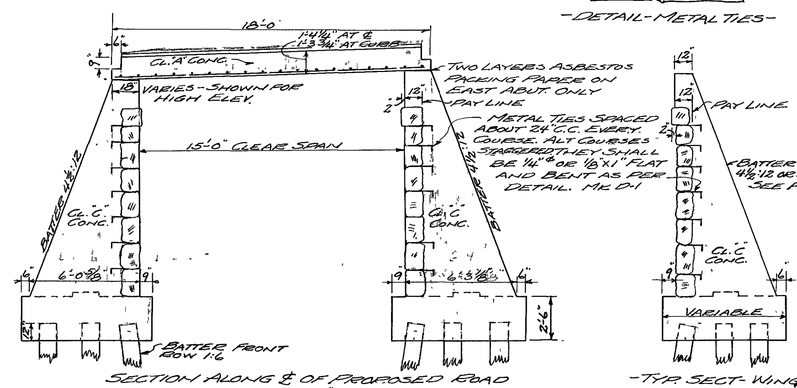
-DETAIL OF CABLE ANCHORAGE-
-8 REQUIRED-



-INSIDE ELEVATION OF RAIL-

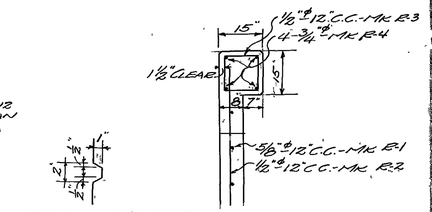


-DETAIL-METAL TIES-



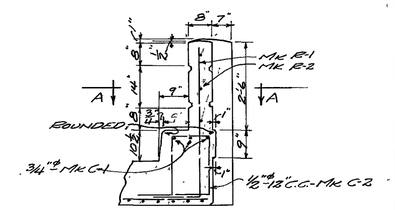
SECTION ALONG ℄ OF PROPOSED ROAD
SCALE:- 1/4"=1'-0"

-TYP. SECT- WINGS-

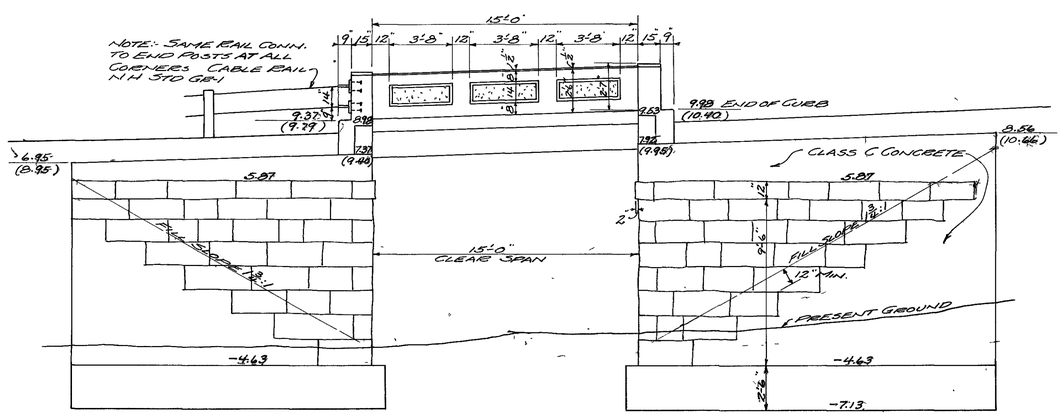


DETAIL OF INSERT IN RAIL

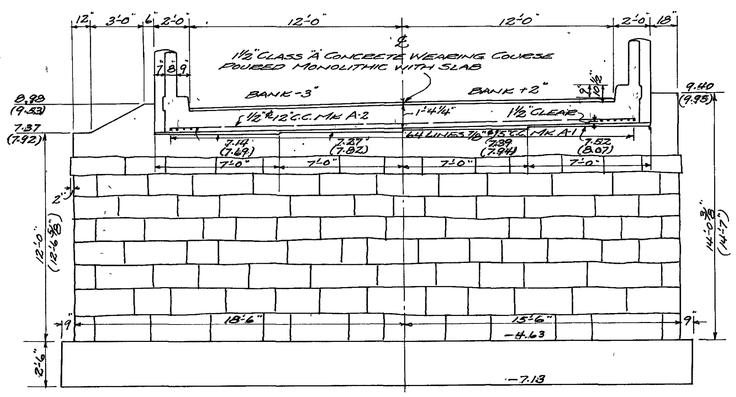
-SECT. A-A-



-SECT THRU CURB-
SCALE:- 1/2"=1'-0"



-SOUTH ELEVATION-
ELEV'S. IN PARENTHESES - NORTH ELEV.



-ELEVATION-WEST ABUTMENT-
EAST ABUT. ELEV'S. SHOWN IN PARENTHESES.

Traced by	Date	Checked by	Date
Orig.		Rev.	
Orig.		Rev.	
Orig.		Rev.	
Orig.		Rev.	
Orig.		Rev.	

Date	Station	From or to

STATE OF NEW HAMPSHIRE
HIGHWAY DEPARTMENT

TOWN DURHAM
PROJECT N.E.S. 247
LOCATION STA 82+80
ROAD 1ST N.H. TURNPIKE
STREAM BUNKER CREEK
SURVEYED BY E.A.B. DATE 8-21-33
DRAWN BY E.A.B. H.H.E. DATE 9-8-33
TRACED BY H.H.E. DATE 9-9-33
CHECKED BY M.R.S. DATE 9-20-33

SHEET 2 OF 2 SHEETS