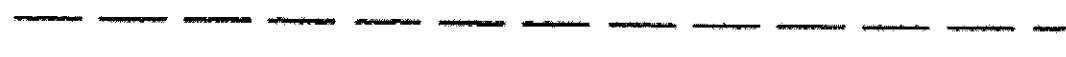


EAST OF THE JUNCTION OF VT ROUTE 100 AND U.S. ROUTE 4, IN THE TOWN OF BRIDGEWATER. BRIDGE 16 IS LOCATED ON VT ROUTE 103 OVER THE WILLIAMS RIVER, SOUTH OF THE JUNCTION OF VT ROUTE 10 AND VT ROUTE 103, IN THE TOWN OF CHESTER. BRIDGE 25 IS LOCATED ON VT ROUTE 113 OVER THE OMPOMPANOOSUC RIVER, SOUTH OF THE JUNCTION OF VT ROUTE 244 AND VT ROUTE 113, IN THE TOWN OF CHESTER.

PROJECT DESCRIPTION: THIS PROJECT INVOLVES CLEANING AND REPAINTING THE EXISTING BRIDGE AND ASSOCIATED WORK.

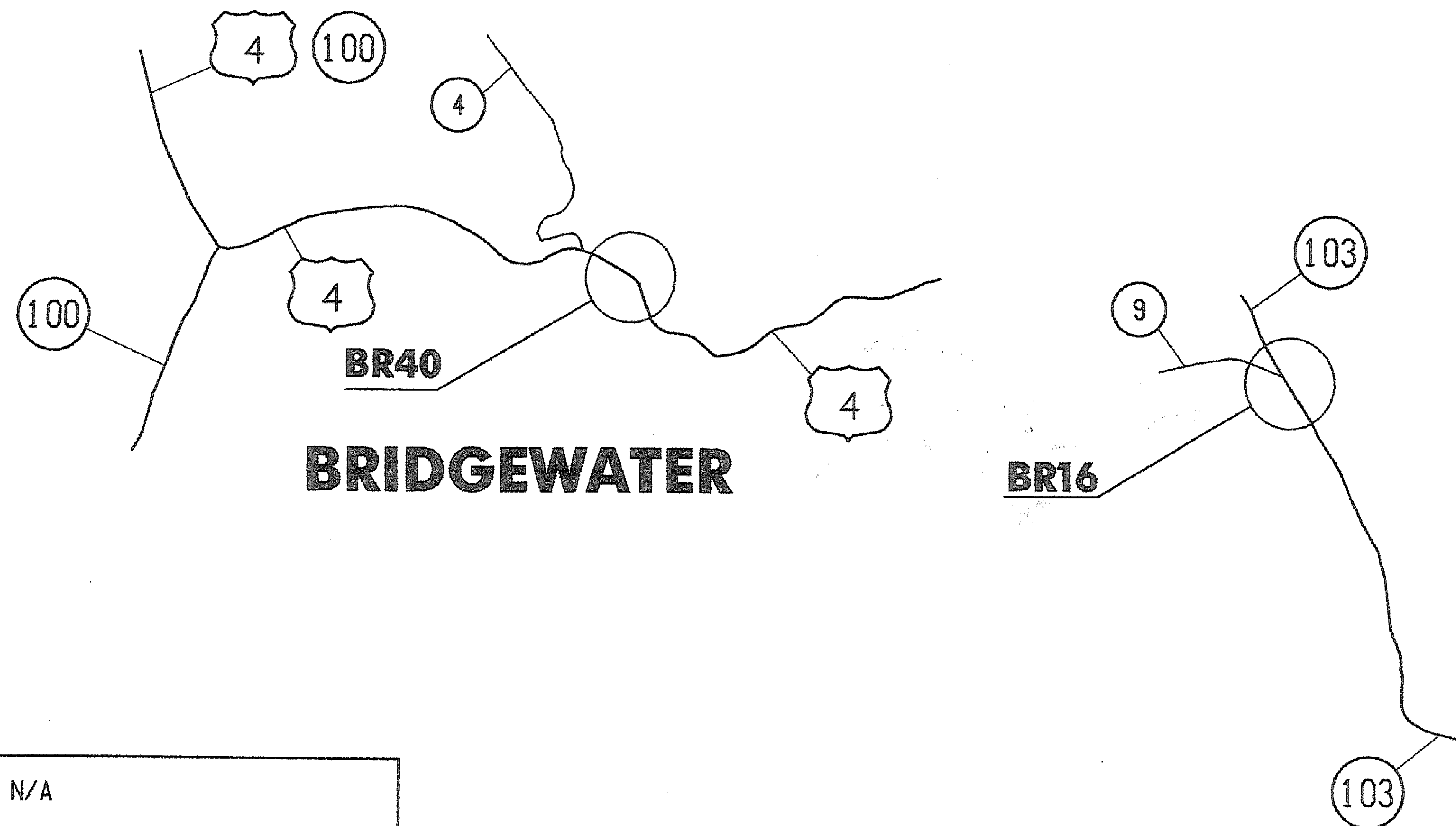
CONVENTIONAL SYMBOLS

COUNTY LINE	
TOWN LINE	
LIMITS OF ACCESS	
POINT OF ACCESS	
FENCE LINE	
STONE WALL	
TRAVELED WAY	
GUARD RAIL	
RAILROAD	
SURVEY LINE	
CULVERT	
POWER POLE	
TELEPHONE POLE	
TREES	
CONTROL OF ACCESS	
PROPERTY LINE	
R.O.W. TAKING LINE	
SLOPE RIGHTS	
TOP OF CUT	
TOE OF SLOPE	

SURVEYED BY : N/A
SURVEYED DATE : N/A

DATUM

VERTICAL N/A
HORIZONTAL N/A



CHESTER

QUANTITY SHEET 1



CHECKED BY H. CRONIN
SHEET 2 OF 16

PROJECT NOTES

GENERAL

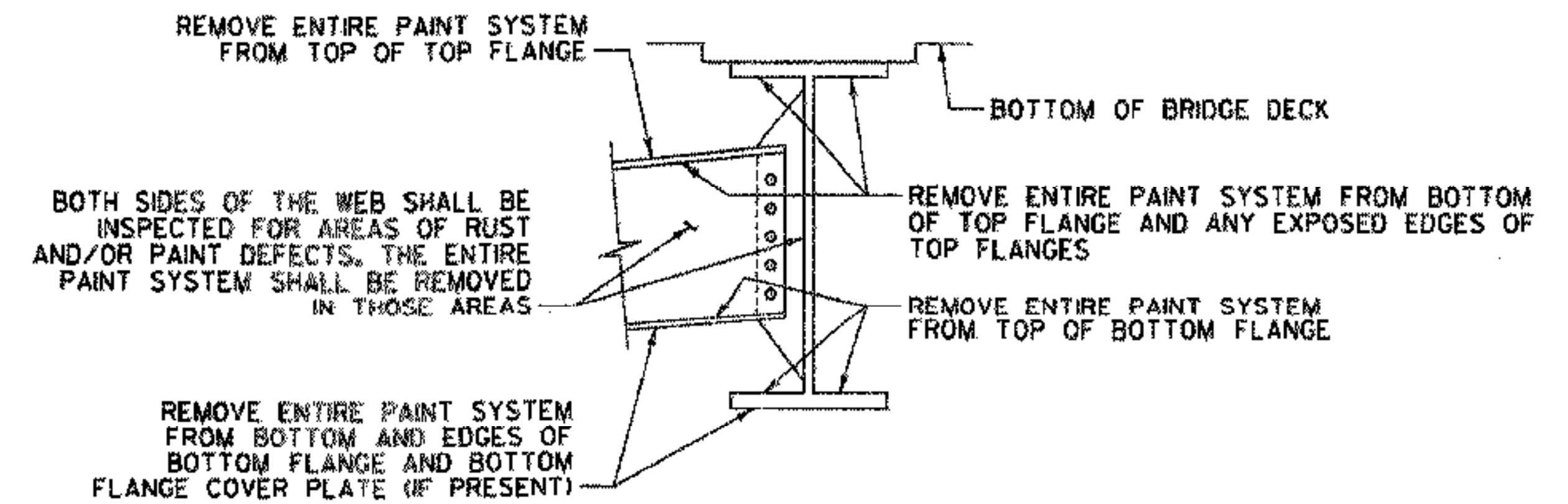
1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION, 2006 STANDARD SPECIFICATIONS FOR CONSTRUCTION, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DATED 2002, AND ITS LATEST REVISIONS.
2. ALL WORK AND ANY ASSOCIATED ACTIVITY ON THIS PROJECT SHALL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY LIMITS. UNLESS SHOWN OTHERWISE ON REFERENCE PLANS, THE RIGHT-OF-WAY LIMIT SHALL BE ASSUMED TO BE 3 RODS.
3. CLEANING AND PAINTING ON BRIDGE 25 SHALL INCLUDE THE METAL BRIDGE RAILING ON BOTH SIDES OF THE BRIDGE. THE EXISTING PAINT SHALL BE REMOVED IN ITS ENTIRETY AND REPLACED WITH THE SAME PAINT SYSTEM USED ON THE SUPERSTRUCTURE STEEL.
4. PRIOR TO PAINTING THE METAL RAILING ON BRIDGE 25 THE EXISTING SPINDLES THAT ARE BENT OR CORRODED THROUGH SHALL BE REPLACED. REFER TO REFERENCE SHEET 14 OF 16 FOR EXISTING DETAILS. THE EXISTING SPINDLES SHALL BE REPLACED WITH $\frac{1}{2}$ " NOMINAL DIAMETER SCHEDULE 40 PIPE (ASTM A53 GRADE B). THE NEW SPINDLES SHALL BE FIELD WELDED TO THE EXISTING RAIL USING A $\frac{1}{4}$ " FILLET WELD AND THEN GROUND SMOOTH. REMOVAL AND REPLACEMENT OF BRIDGE RAILING SPINDLES WILL BE PAID FOR UNDER ITEM 900.620, "SPECIAL PROVISION (REMOVE AND REPLACE EXISTING BRIDGE RAILING SPINDLES)".

PROTECTIVE COATINGS

5. THE SURFACE PREPARATION OF THE EXISTING STEEL ON BRIDGES 16, 25 AND 40 SHALL INCLUDE PARTIAL REMOVAL OF THE EXISTING PAINT SYSTEM, SEE DETAIL THIS SHEET.
6. THE COLOR OF THE FINAL COAT OF PAINT SHALL BE GREEN CONFORMING TO SUBSECTION 708.03.
7. THE ENDS OF THE BEAMS AT THE PIERS ON BRIDGE NO. 16 (CHESTER) SHALL BE GREASE COATED IN ACCORDANCE WITH SUBSECTION 513.06(d)(1) OF THE SPECIFICATIONS.
8. CLEANING AND PAINTING OF ANY DOWNSPOUTS AND/OR ANY STEEL CONNECTORS FOR DRAIN TROUGHS SHALL BE INCLUDED AS PART OF THE WORK.

TRAFFIC CONTROL

9. UNLESS COVERED UNDER INDIVIDUAL PAY ITEMS, ALL COSTS FOR TEMPORARY TRAFFIC CONTROL DEVICES INCLUDING RETROREFLECTIVE DRUMS, SIGNS, AND SIGN POSTS WILL BE CONSIDERED TO BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL, ITEM 641.00.



NOTE: AREAS WHERE THE PAINT SYSTEM HAS BEEN COMPLETELY REMOVED SHALL RECEIVE A PRIMER AND INTERMEDIATE COAT OF PAINT. THE FINAL COAT OF PAINT SHALL BE PLACED ON ALL OF THE STEEL SURFACES.

AREAS OF PAINT REMOVAL FOR BRIDGES 16, 25 & 40

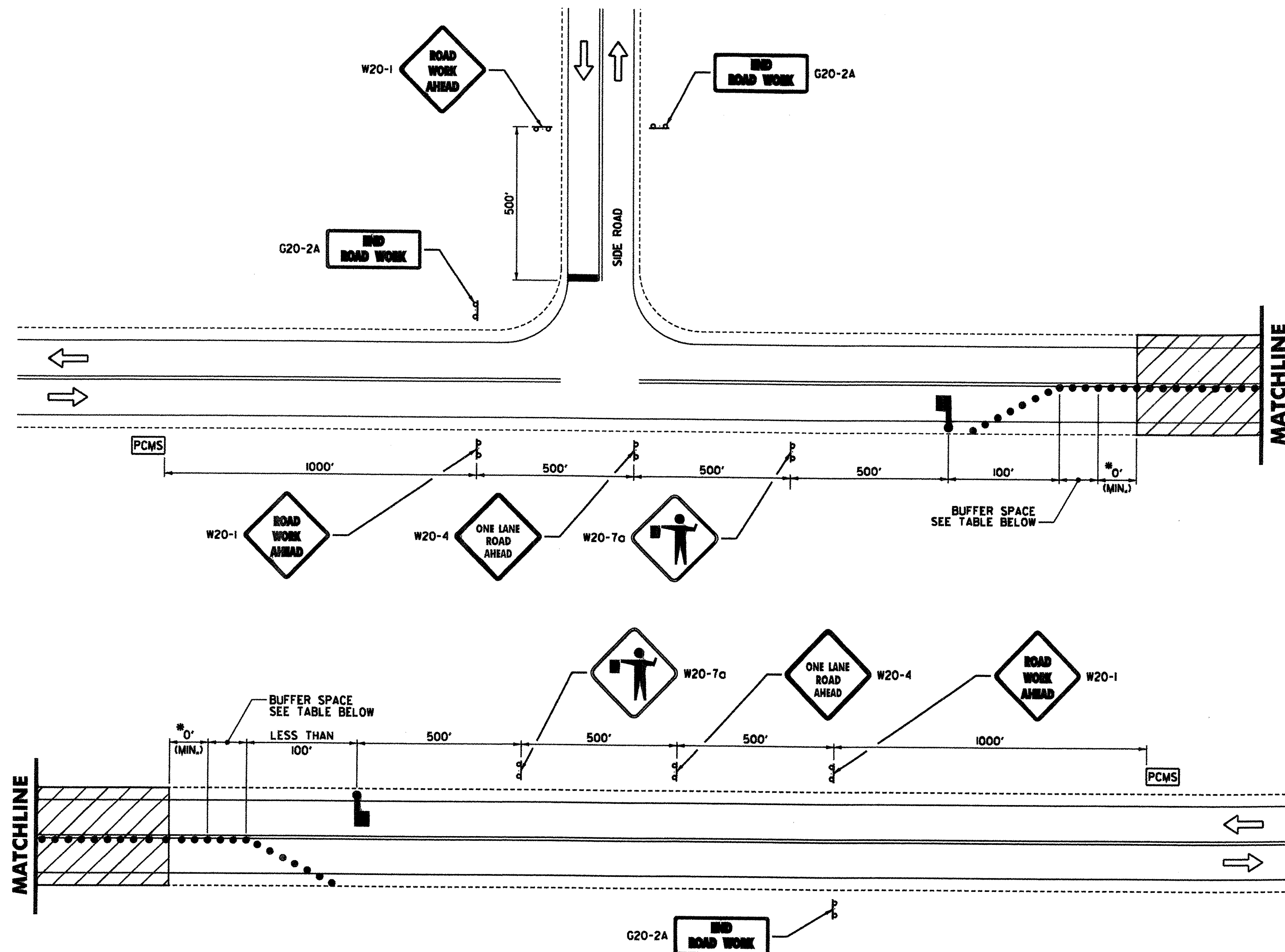
NOT TO SCALE

TIE COAT APPLIED BETWEEN OLD PAINT AND NEW PAINT. THIS ITEM ADDED PER CHANGE ORDER.



Stanbic

PROJECT NAME:	BRIDGEWATER-CHESTER-THETFORD
PROJECT NUMBER:	ST BPNT(2)
FILE NAME:	...Bridge.Chester.Theft\Notes.dgn
LOT DATE:	7/3/2008
PROJECT LEADER:	G. BOGUE
DRAWN BY:	J. SOTER
DESIGNED BY:	S. BURBANK
CHECKED BY:	M. CHENETTE
PROJECT NOTES AND DETAILS	SHEET 4 OF 16



* - ACTUAL DIMENSION TO BE DETERMINED BY INDIVIDUAL BRIDGE SITE CONDITIONS AND TO BE SHOWN ON TRAFFIC CONTROL PLANS SUBMITTED BY THE CONTRACTOR.

TRAFFIC CONTROL PLAN NOT TO SCALE

LEGEND

- FLOW OF TRAFFIC
- RETROREFLECTIVE PLASTIC DRUM
- WORK AREA
- FLAGGER
- PORTABLE CHANGEABLE MESSAGE SIGN

BUFFER SPACE TABLE

POSTED SPEED (MPH)	MINIMUM BUFFER SPACE LENGTH (FT)
35	250
40	305
45	360
50	425



Stantec

GENERAL NOTES:

- THE TRAFFIC CONTROL PLAN SHOWN IS A SCHEMATIC ONLY AND SHOULD BE USED AS A REFERENCE. THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL PLAN FOR EACH BRIDGE TO VTRANS FOR APPROVAL. PAYMENT FOR PREPARING AND SUBMITTING THE TRAFFIC CONTROL PLAN, AND MAKING ANY NECESSARY REVISIONS TO THE PLAN, WILL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 641.0. THE CONTRACTOR SHALL ALLOW TWO WEEKS FOR APPROVAL OF THE TRAFFIC CONTROL PLAN. NO WORK SHALL COMMENCE UNTIL THE CONTRACTOR HAS AN APPROVED TRAFFIC CONTROL PLAN.
- ANY PARKING AREAS OR DRIVES WITH AN ENTRANCE/EXIT BETWEEN THE FLAGGER AND THE WORK ZONE SHALL HAVE THAT ENTRANCE/EXIT CLOSED WITH CONES OR DRUMS. PROVIDED ADDITIONAL ENTRANCES/EXITS EXIST IN THE AREA APPROACHING THE FLAGGER.
- ANY PUBLIC HIGHWAYS BETWEEN THE FLAGGER AND THE WORK ZONE WILL REQUIRE AN ADDITIONAL FLAGGER TO MAINTAIN TRAFFIC CONTROL FOR THE PUBLIC HIGHWAY.
- SIGNS SHALL BE INSTALLED SO AS NOT TO OBSTRUCT EXISTING SIGNS OR CORNER SIGHT DISTANCE FROM TOWN HIGHWAYS OR DRIVES.
- ALL SIGNS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND THE "STANDARD HIGHWAY SIGNS" BOOK (SHS) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION (FHWA).
- SOLID SUBSTRATE CONSTRUCTION SIGNS SHALL HAVE RETROREFLECTIVE SHEETING EQUAL TO OR EXCEEDING "AMERICAN SOCIETY FOR TESTING AND MATERIALS" (ASTM) TYPE VII, VIII OR IX REQUIREMENTS, UNLESS OTHERWISE NOTED.
- ROLL UP SIGNS SHALL HAVE RETROREFLECTIVE SHEETING EQUAL TO OR EXCEEDING ASTM TYPE VI.
- SIGNS SHALL BE ERECTED BEFORE THE START OF ANY WORK AND SHALL BE COVERED UNTIL WORK COMMENCES, DURING PERIODS OF INACTIVITY OR UPON COMPLETION OF THE WORK. EACH SIGN SHALL BE ERECTED IN A NEAT AND WORKMANLIKE MANNER. SIGNS SHALL BE REMOVED UPON COMPLETION OF THE WORK AT THE DISCRETION OF THE ENGINEER.
- FIXED SIGNS SHALL BE SET SECURELY IN THE GROUND. THE BOTTOM OF A SIGN SHALL BE AT LEAST SEVEN FEET ABOVE THE EDGE OF PAVEMENT. THE NEAREST EDGE OF A SIGN SHALL BE AT LEAST SIX FEET OUTSIDE THE SHOULDER POINT OR FOUR FEET OUTSIDE GUARDRAIL.
- PORTABLE SIGNS SHALL BE PLACED ON THE EDGE OF ROADWAY AND A ONE FOOT MINIMUM ABOVE TRAVELED WAY. ALL VEGETATION THAT INTERFERES WITH VISIBILITY OF THE SIGNS SHALL BE REMOVED. WHEN PLACED BEHIND GUARDRAIL, THE BOTTOM OF THE SIGN FACE SHALL BE ABOVE THE TOP OF THE GUARDRAIL.
- WHERE SIGN INSTALLATIONS ARE NOT PROTECTED BY GUARDRAIL OR OTHER APPROVED TRAFFIC BARRIERS, ALL SIGN STANDS AND POST INSTALLATIONS SHALL BE "NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM" (NCHRP) REPORT 350 COMPLIANT. NO SIGN POSTS SHALL EXTEND OVER THE TOP OF THE SIGN INSTALLED ON SAID POST(S). WHEN ANCHORS ARE INSTALLED STUB SHALL NOT BE GREATER THAN FOUR INCHES ABOVE EXISTING GROUND.
- THE NUMBER OF CHANNELIZING DEVICES SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. THE ACTUAL NUMBER REQUIRED ARE TO BE DETERMINED BY THE CONTRACTOR AND SHOWN ON THE TRAFFIC CONTROL PLAN SUBMITTED BY THE CONTRACTOR. WARNING LIGHTS SHALL NOT BE USED ON CHANNELIZING DEVICES.
- THE PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS'S) SHALL BE USED AT THE DISCRETION OF THE ENGINEER. THE PCMS SHALL BE USED IN ACCORDANCE WITH SECTION 6F.55 OF THE MUTCD. THE PCMS'S SHALL READ "ONE WAY TRAFFIC AHEAD BE PREPARED TO STOP".
- THE CONTRACTOR MAY REDUCE TRAFFIC TO ONE LANE DURING WORKING HOURS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. ALL EQUIPMENT SHALL BE MOVED TO A LOCATION OFF PAVED SHOULDERS DURING NON-WORK PERIODS, AND PROTECTED BY BARRELS OR CONES. NORMAL TRAFFIC LANE'S SHALL BE RESTORED DURING NON-WORK PERIODS AND TEMPORARY TRAFFIC SIGNS REMOVED OR COVERED. PAYMENT FOR THIS WORK WILL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 641.0.

PROJECT NAME:	BRIDGEWATER-CHESTER-THETFORD
PROJECT NUMBER:	ST BPNT(2)
FILE NAME:	...Bridge_Chester_TheTCP_LdgnPLOT DATE: 7/3/2008
PROJECT LEADER:	G. BOGUE
DESIGNED BY:	S. BURBANK
CHECKED BY:	M. CHENETTE
TRAFFIC CONTROL PLAN	SHEET 3 OF 16

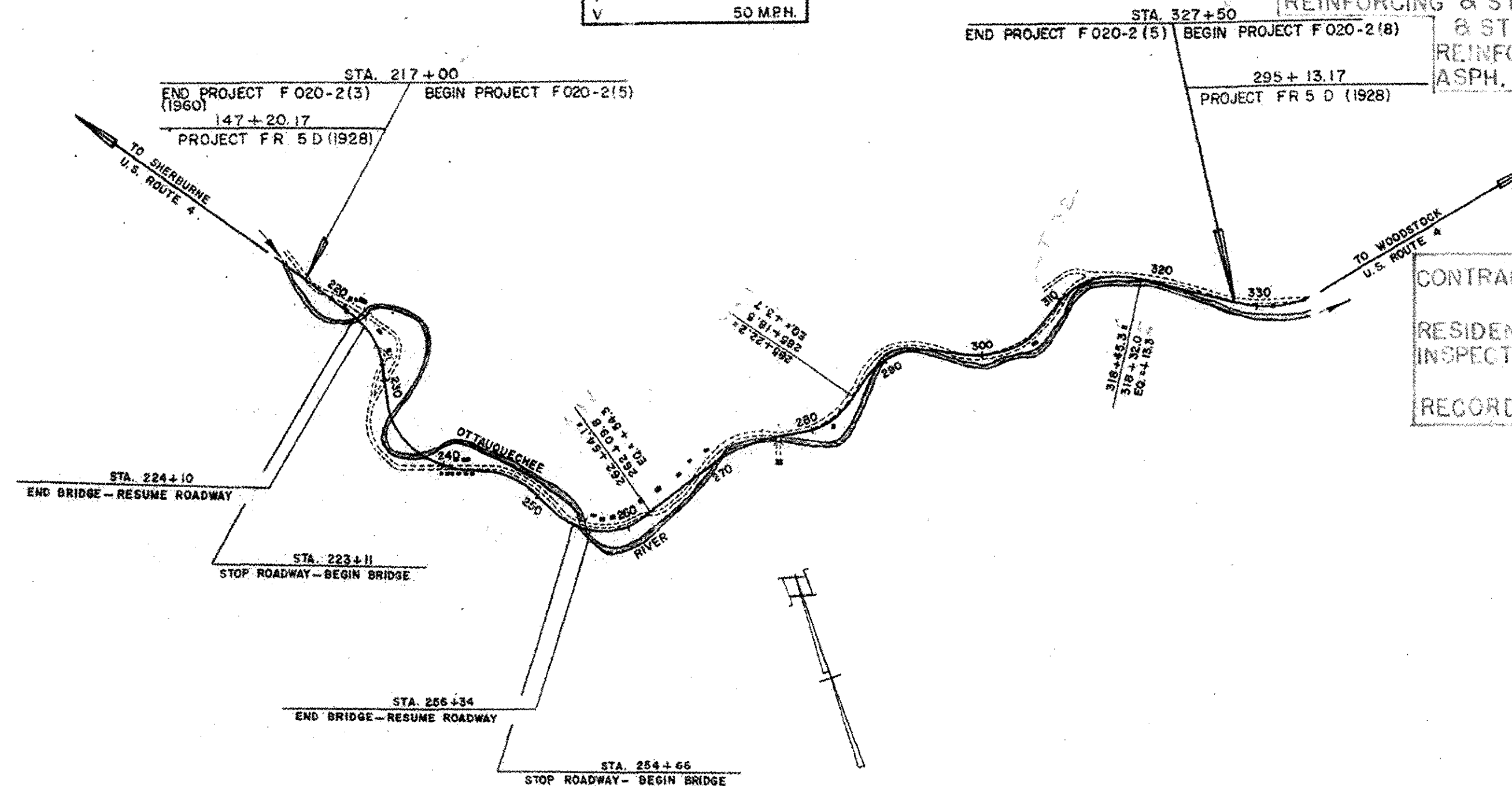
INDEX OF SHEETS	
SHEET NO	TITLE PAGE
1	TYPICAL CROSS-SECTION OF IMPROVEMENT 3" BITUMINOUS CONCRETE PAVEMENT, ITEM 361-D MOD.
2	QUANTITY SHEET (ITEMS)
3	QUANTITY SHEET (DRAINAGE)
4	QUANTITY SHEET (EARTHWORK)
5-7	EARTHWORK SHEETS
8-24	PLAN AND PROFILE SHEETS
25	DETAILS OF 78" C.G.M.P.P. (STA. 238+07.5)
26	A-61 DRILLING AND BLASTING OF SOLID ROCK SUBGRADE
27	B-1 BANKING TABLES
28	B-5 TYPICAL SLOPE GRADING
29	B-12 SIDE ROAD INTERSECTION
30	B-13 DRIVES
31	D-1 PRECAST R.C.P. DROP INLETS
32	D-2 CEMENT RUBBLE MASONRY
33	D-4 FLUSHING BASINS
34	E-1 BARRICADES, SIGNS AND LIGHTS
35	E-9 FEDERAL AID CONSTRUCTION IDENTIFICATION SIGNS
36	G-3 THREE CABLE GUARD RAIL WITH STEEL POSTS
37	G-4 MARKER POSTS-PLANK GUARD RAIL
38	J-1 PROJECT AND BOUNDARY MARKERS
39	PRELIMINARY INFORMATION SHEET (BRIDGE AT STA. 223+60.5)
40	GENERAL PLAN ELEVATION, PROFILE & SECTIONS
41	BORING LOGS, FRAMING PLAN AND SECTION
42	DETAILS OF ABUTMENT NO. 1
43	DETAILS OF ABUTMENT NO. 2
44	DETAILS OF ABUTMENT NO. 2
45	APPROACH SLAB
46	REINFORCING STEEL SCHEDULE
47	PRELIMINARY INFORMATION SHEET (BRIDGE AT STA. 255+50)
48	GENERAL PLAN ELEVATION, PROFILE AND SECTIONS
49	BORING LOGS, FRAMING PLAN AND SECTIONS
50	DETAILS OF ABUTMENT NO. 1
51	DETAILS OF ABUTMENT NO. 2
52	DETAILS OF PIER
53	APPROACH SLAB
54	REINFORCING STEEL SCHEDULE
55	SCB-30-58 (SHEET 1) SUPERSTRUCTURE
55A	SCB-30-58 (SHEET 2) SUPERSTRUCTURE
56	SB-5G-57 (SHEET 1) BRIDGE RAILING
56A	SB-5G-57 (SHEET 2) BRIDGE RAILING
57	SB-20-56 BEARINGS AND DIAPHRAGM
58	SB-AS-57 (15° SKEW) APPROACH SLAB
59	SB-AS-57 (45° SKEW MOD.) APPROACH SLAB
60	SB-22-58 EXPANSION JOINT DETAILS
61-125	CROSS SECTIONS
126-134	CHANNEL SECTIONS (STA. 223+44.2)
135-141	CHANNEL SECTIONS (STA. 255+06.4)

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
Proposed Improvement
FEDERAL AID PROJECT
TOWN OF BRIDGEWATER
COUNTY OF WINDSOR
U.S. ROUTE 4
RUTLAND-WHITE RIVER JCT. ROAD

BEGINNING AT A POINT 11,231.1 FEET EASTERLY OF THE
SHERBURNE-BRIDGEWATER TOWN LINE AND EXTENDING
EASTERLY 11,121.3 FEET.

LENGTH OF ROADWAY 10,854.3 FEET = 2.056 MILES
LENGTH OF BRIDGES 267.0 FEET = 0.050 MILE
LENGTH OF PROJECT 11,121.3 FEET = 2.106 MILES

ADT 1960	1300
ADT 1980	2550
DHV 1980	360
D	58%
T	10%
V	50 MPH



PROJECT NAME & NUMBER	TYPE	PAVEMENT	AREA
BRIDGEWATER F 020-2(5)	BIT. CONC. PAVM'T.		32,536 S.Y.
RECORD PLANS			
MATERIALS			
GRANULAR BORROW-ERNEST ADAMS-BRIDGEWATER, VERMONT.			
SUB-BASE OF GRAVEL & SUB-BASE OF SAND-EDGAR PIT-SHERBURNE, VT.			
SUB-BASE OF CRUSHED ROCK & PENETRATION MACADAM CRUSHED STONE			
BASE COURSE-FARMERS LIME CO.-BRIDGEWATER, VERMONT.			
REFINED TAR & CUTBACK ASPHALT-ALL STATES ASPHALT CO.-SUNDERLAND, MASS.			
TAR EMULSION-KOPPERS CO.-EVERETT, MASS.			
ASPHALT CEMENT-ALL STATES ASPHALT CO.-SUNDERLAND, MASS.			
BITUMINOUS CONCRETE-L.M. PIKE & SON INC. (WILBANON PLANT) LACONIA, N.H.			
REINFORCING & STRUCTURAL STEEL-BETHLEHEM STEEL CO.-BETHLEHEM, PA.			
& STEEL PILING			
REINFORCED CONCRETE PIPE-AMERICAN MARIETTA CO.-WINDSOR, VT.			
ASPH. G.T.D. CORR. GALV. METAL PIPE-NEW ENGLAND METAL CULVERT			
CO.-WHITE RIVER JUNCTION, VERMONT.			
THREE CABLE GUARD RAIL, STEEL GUIDE & MARKER POSTS-			
S.T. GRISWOLD & CO. INC.-ESSEX JUNCTION, VT.			
BRIDGE RAILING-WARD-WELLER CO. INC.-NEWTON LOWER FALLS,			
MASS.			
GRANITE BRIDGE CURB-BARRETTO GRANITE-MILFORD, N.H.			
CONTRACTOR-S.V. ROSSI CONST. CO. INC.			
TORRINGTON, CONN.			
RESIDENT ENGINEER-PAUL J. JETTE.			
INSPECTORS-A. DAVIS, C. HARPAN, E. NEWTON			
& T. BIRT.			
RECORD PLANS-PAUL J. JETTE.			
CONTRACT:			
DATED-APRIL 18, 1961.			
STARTED-MAY 3, 1961.			
COMPLETED-OCTOBER 31, 1962.			
ACCEPTED-OCTOBER 31, 1962.			

BRIDGE 40
FOR REFERENCE ONLY
SHEET 5 OF 16

PROJECT	LENGTH	DATE	CONTRACTOR	LOCATION
BRIDGEWATER F 020-2(5)	10,854.3 FEET	1961	S.V. ROSSI CONST. CO. INC.	BRIDGEWATER, VT.
CONTRACTOR	10,854.3 FEET	1961	S.V. ROSSI CONST. CO. INC.	BRIDGEWATER, VT.
LOCATION	10,854.3 FEET	1961	S.V. ROSSI CONST. CO. INC.	BRIDGEWATER, VT.

SCALES	
TITLE	1" = 1000'
TYPICAL	1" = 2'
PLAN	1" = 50'-20'
PROFILE	1" = 50'
CROSS-SECTIONS	1" = 10'

APPROVED SECONDARY ENGINEER DATE	APPROVED CONSTRUCTION ENGINEER DATE 28 Sept. 1959	APPROVED BRIDGE ENGINEER DATE 28 Sept. 1959	APPROVED DISTRICT ENGINEER DATE 25 Sept. 1959	APPROVED HIGHWAY ENGINEER DATE 29 Sept. 1959	APPROVED CHIEF ENGINEER DATE 29 Sept. 1959
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DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS	
APPROVED	DATE
DIVISION ENGINEER	DATE
PROJECT F NO. 020-2 (5)	
SHEET 1 OF 141 SHEETS	

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GENERAL SHEETS	
SHEET 1	TITLE PAGE
2	TYPICAL ROADWAY SECTIONS BITUMINOUS CONCRETE PAVEMENT
3	QUANTITY SHEET, ITEMS
4	QUANTITY SHEET, ITEMS
5	QUANTITY SHEET, ITEMS
6, 7, 8, 9	EARTHWORK SHEETS
9-12, 12A, 13-20	PLAN & PROFILE SHEETS
21-23	SUPERELEVATION TRANSITION, TALC MILL UNDERPASS
BRIDGE AT STA. 114+50	
24	PRELIMINARY INFORMATION SHEET
25A	GENERAL PLAN & ELEVATION
BRIDGE AT STA. 165+40	
26-32	BRIDGE DETAILS
33	BLANK
34	BLANK
BRIDGE AT STA. 165+40	
35	PRELIMINARY INFORMATION SHEET
36A	GENERAL PLAN & ELEVATION
37-44	BRIDGE DETAILS

DEPARTMENT STANDARDS	
45-59A	ROADWAY STANDARDS B-1, B-5, B-6, D-1, D-2, D-3, D-4, D-8, D-10, D-11, D-13, E-1, E-9, G-2, G-3, G-4, H-1a, H-1b, J-1
67-71	BRIDGE STANDARDS SCB-30-58, SHT 1; SCB-30-58, SHT 2; SCB-56-57, SHT 1; SCB-56-57, SHT 2
CROSS SECTIONS	
72-187	HIGHWAY RELOCATION
188-193	ROUTE 10 INTERSECTION, TOWN RD. NO. 19 & 21
194-200	CHANNEL RELOCATION
201-208	CHANNEL IMPROVEMENT SECTIONS

PROJECT NAME & NUMBER	TYPE	PAVEMENT AREA
CHESTER F 025-1(18)	BIT. CONCRETE	20,756 S.Y.
RECORD PLANS		
MATERIALS		
SUBBASE OF GRAVEL - SCHALLOW PIT - PROCTORSVILLE, VT.		
SHATTUCK PIT - PERKINSVILLE, VT.		
CRUSHED STONE BASE COURSE - VERMONT MARBLE CO. - FLORENCE, VT.		
ASPHALT & TAR - ALL STATES ASPHALT CO. INC. - SUNDERLAND, MASS.		
BITUMINOUS CONCRETE PAVE - L.M. PIKE & SON - (PLANT) MANCHESTER, VT.		
CONCRETE CLASS - 57 CHARLESTOWN READY MIX INC. - CHARLESTOWN, N.H.		
REINFORCING & STRUCTURAL STEEL - CITY IRON WORKS - BRIDGEPORT, CONN.		
REINFORCED CONCRETE PIPE - AMERICAN MARITTA CO. - WINDSOR, VT.		
ASPH. COATED CORR. GALV. METAL PIPE & METAL BIN RETAINING WALL		
NEW ENGLAND METAL CULVERT CO. - WESTMINSTER, VT.		
GUARD RAIL (CABLE & WOOD) - MAINLINE FENCE CO. - WESTBROOK, MAINE		
BRIDGE RAILING - VERMONT STRUCTURAL STEEL CO. - BURLINGTON, VT.		
GRANITE SLOPE EDGING - ROCK OF AGES CORP. - BARRE, VERMONT		
CONTRACTORS - CALEDONIA SAND & GRAVEL CO. INC. - CONTRACT		
RESIDENT ENGINEER - HUGH F. ELDER, DATED - JAN. 19, 1961		
INSPECTORS - S. LANGILL & J. DAVIS, STARTED - JAN. 19, 1961		
RECORD PLANS - A.G. SPIDLE, COMPLETED - JUNE 29, 1962		
ACCEPTED - JUNE 29, 1962		

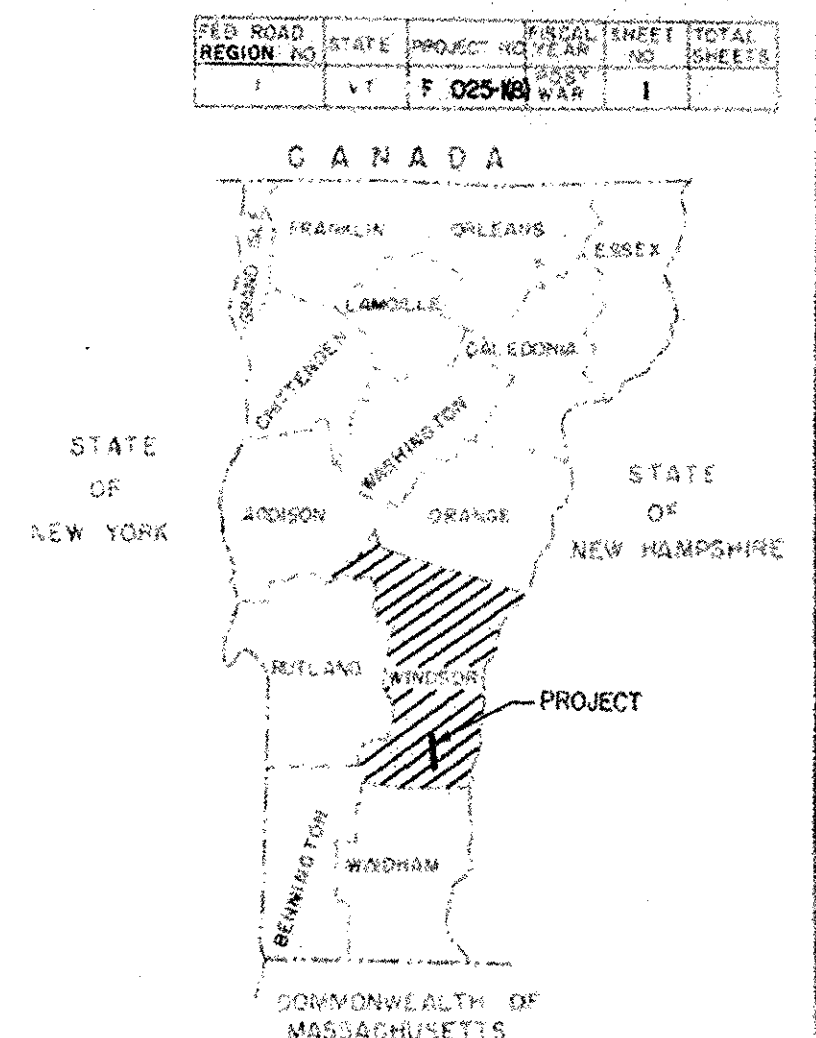
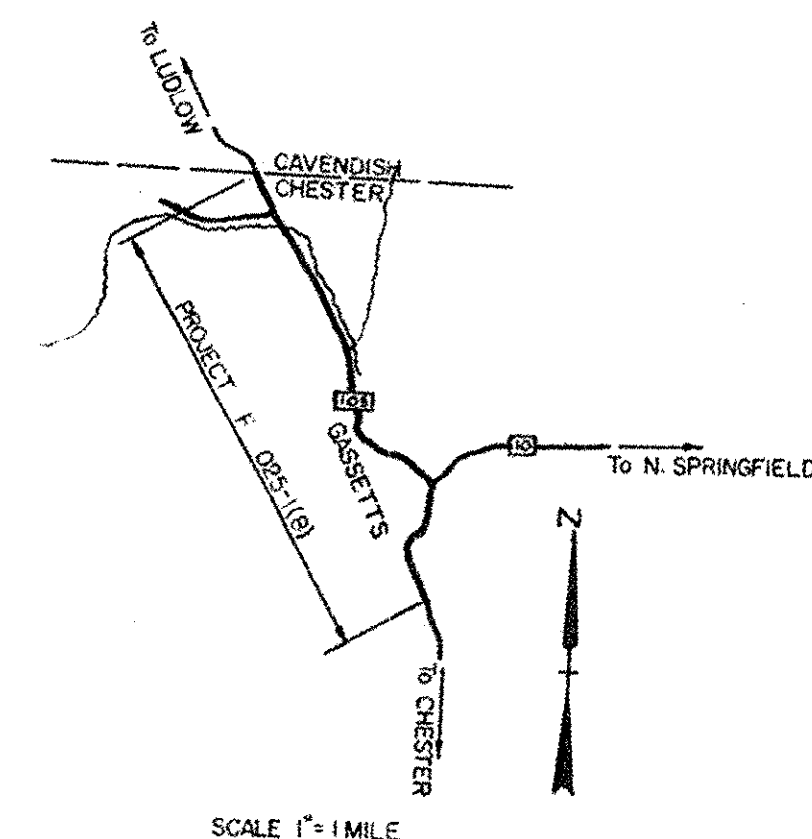
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROPOSED IMPROVEMENT
TOWN OF CHESTER

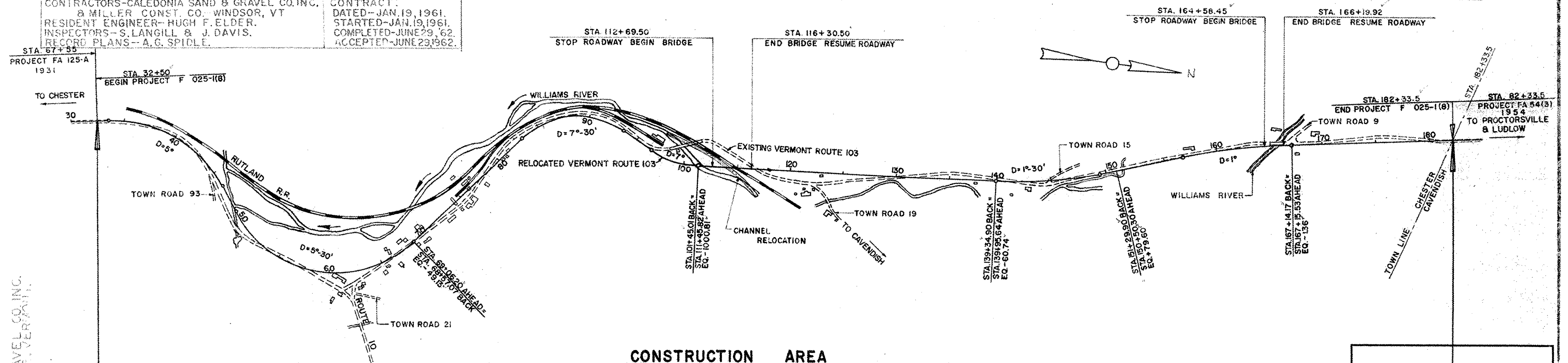
COUNTY OF WINDSOR
VERMONT ROUTE 103
CHESTER-LUDLOW ROAD

BEGINNING AT A POINT APPROXIMATELY 0.55 MILES SOUTH
OF THE INTERSECTION OF VERMONT ROUTES 10 & 103
AND EXTENDING NORTHWESTERLY TO THE CAVENDISH
CHESTER TOWN LINE.

LENGTH OF ROADWAY 13,428.59 FT. = 2.543 MILES
LENGTH OF BRIDGE 522.47 FT. = 0.099 MILES
LENGTH OF PROJECT 13,951.06 FT. = 2.642 MILES



DESIGN	DESIGNATION
ADT (1955)	2230
ADT (1980)	3800
DHV (1980)	520
D	55%
T	5%
V	50 MPH



CONSTRUCTION AREA

BRIDGE 16
FOR REFERENCE ONLY
SHEET 8 OF 16

PROJECT F 025-1(18)
TOWN OF CHESTER
COUNTY OF WINDSOR
VERMONT
DEPARTMENT OF HIGHWAYS
BUREAU OF PUBLIC ROADS
CONTRACTORS - CALEDONIA SAND & GRAVEL CO. INC.
& MILLER CONST. CO. - WINDSOR, VT.
LOCATION Beginning at a point approximately 0.55 miles south of the
Intersection of Vermont Routes 10 & 103 and extending northwest
to the Cavendish-Chester Town Line.

CHESTER F 025-1(18)
CONTRACTORS - CALEDONIA SAND & GRAVEL CO. INC.
& MILLER CONST. CO. - WINDSOR, VT.
RECORD PLANS - A.G. SPIDLE
COMPLETED - JUNE 29, 1962

GROUND ELEVATION	DATA	LINE
GRADE ELEVATION	DATA	LINE
CURVE DATA		
DEFLECTION OF ANGLE	A	
DEGREE OF CURVE	D	
RADIUS OF CURVE	R	
TANGENT DISTANCE	T	
LENGTH OF CURVE	L	
EXTERNAL DISTANCE	E	
POINT OF INTERSECTION	PI	
POINT OF CURVE	PC	
POINT OF TANGENT	PT	
POINT ON TANGENT	ROT	
POINT ON SUB-TANGENT	POST	

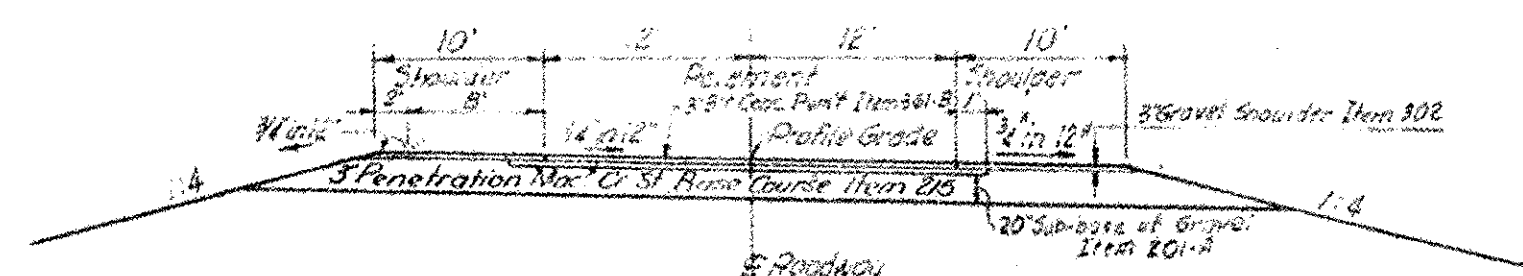
SCALES

TITLE	1" = 500'
TYPICAL	3/8" = 1' & 1/8" = 1'
PLAN	1" = 50'
PROFILE HORIZONTAL	1" = 50'
VERTICAL	1" = 10'
CROSS-SECTIONS	1" = 5' & 1" = 10'

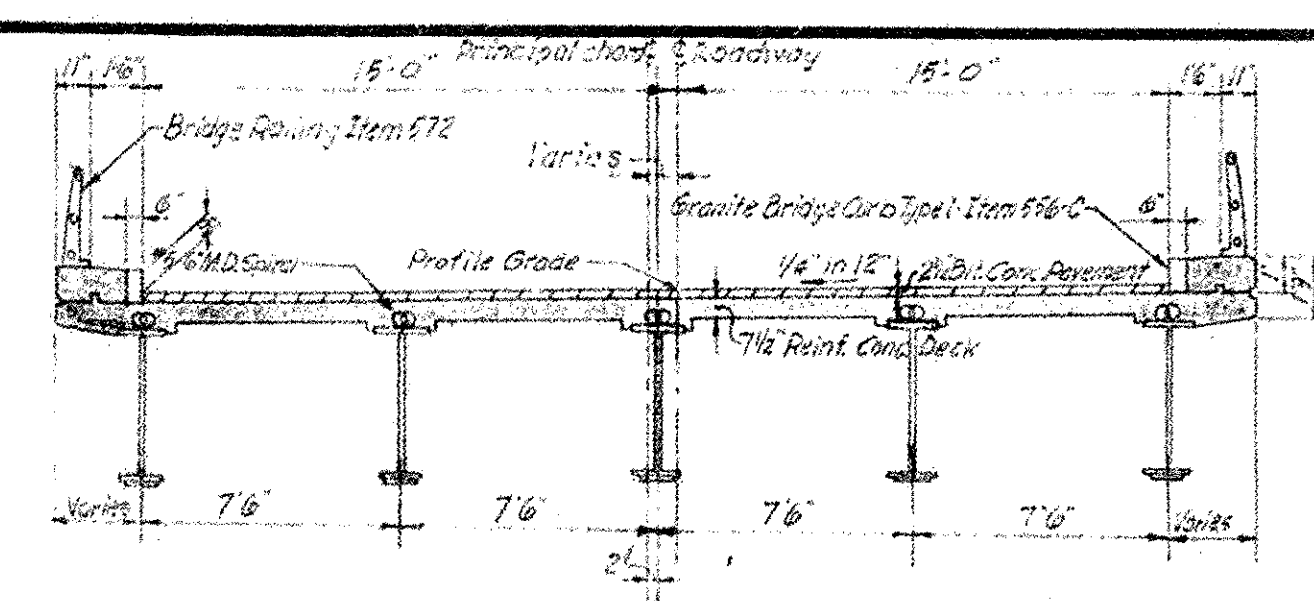
APPROVED SECONDARY ENGINEER DATE	APPROVED CONSTRUCTION ENGINEER DATE 8/3/60	APPROVED BRIDGE ENGINEER DATE Aug 2, 1960	APPROVED DISTRICT ENGINEER DATE 7/26/60	APPROVED HIGHWAY ENGINEER DATE 7/29/60	APPROVED CHIEF ENGINEER DATE 8/3/60
--	--	---	---	--	---

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE
REQUIRED BY THE BUREAU OF PUBLIC ROADS OR THE COMMISSIONER
OF HIGHWAYS.
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH
THE PLANS AND THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE
CONSTRUCTION OF JANUARY 1956 SUBMITTED TO THE BUREAU OF
PUBLIC ROADS AS APPROVED JULY 5, 1956, INCLUDING ALL SUBSEQUENT
APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL
PROVISIONS AS ARE SUBMITTED WITH THE PLANS.

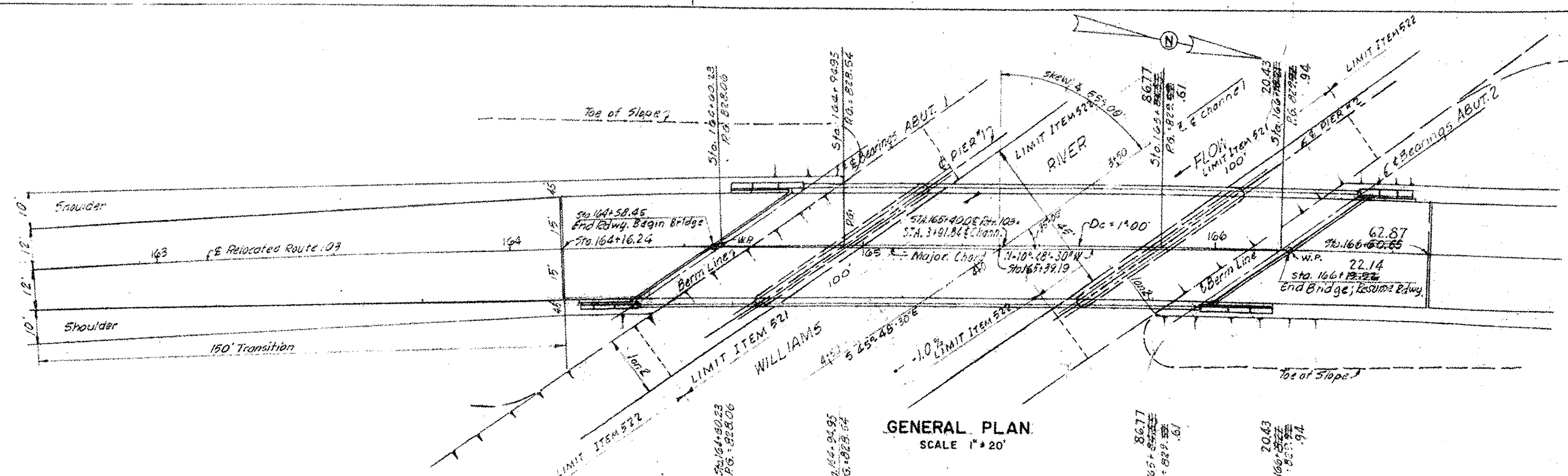
DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS	
APPROVED	DATE
DIVISION ENGINEER	DATE
PROJECT F NO. 025-1(18)	
SHEET 8 OF 208 SHEETS	



NEW HIGHWAY SECT-ADJACENT TO BRIDGE
SCALE: 1"=10'



TYPICAL BRIDGE SECTION
SCALE 1"=5'



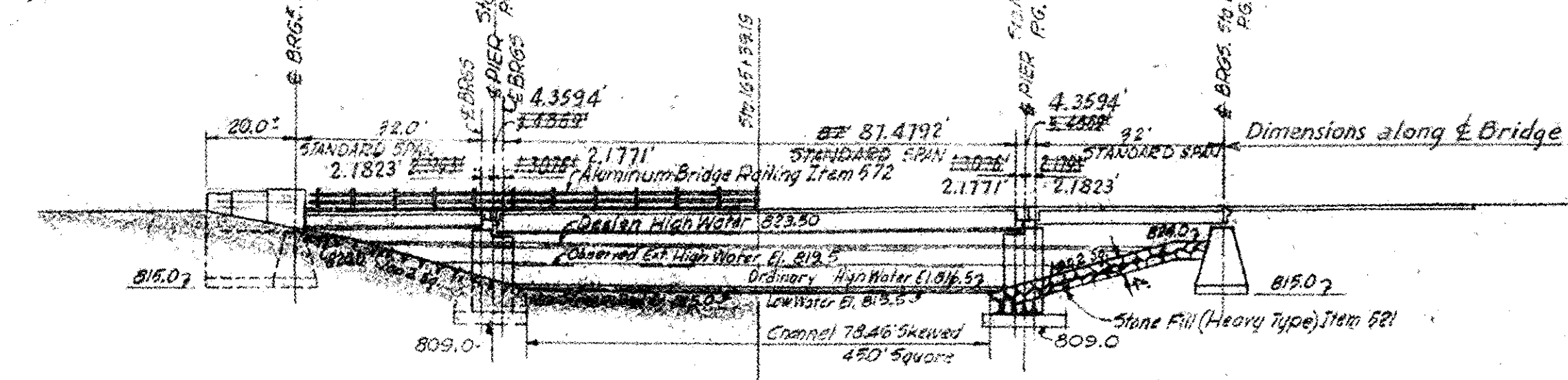
GENERAL PLAN
SCALE 1"=20'

HORIZONTAL CURVE DATA

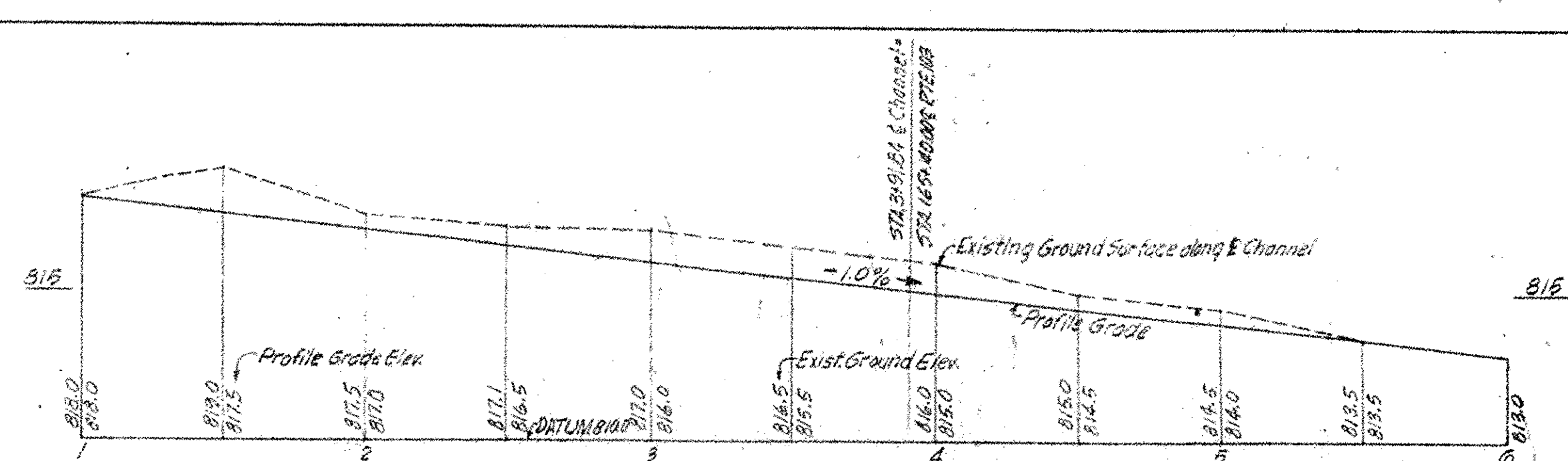
Bank 1/4" per ft.
Δ = 10° 17' RT.
D = 1° 00'
R = 5729.58'
T = 515.55'
L = 1028.35'

VERTICAL CURVE DATA

400' Vertical Curve
PVI Sta. 164+00 E. 827.18
PVT Sta. 166+00 E. 830.41
PVT Sta. 168+00 E. 831.03
E = 0.61%
g1 = +1.64%
g2 = +0.31%



HALF ELEVATION - HALF SECTION
SCALE 1"=20'



PROFILE OF PROPOSED STREAM CHANNEL
SCALE: HOR. 1"=40' VERT. 1"=4'

HIGHWAY NO. Vt. Rt. 103 NAME OF HIGHWAY WINDSOR
STRUCTURE NO. 1115 COUNTY CHESTER TOWN CHESTER
PROJECT NO. F 025-1(8) LOCATION APPROX. 1700' SOUTH OF
CHESTER-CAVENDISH TOWN LINE

EXISTING STRUCTURE

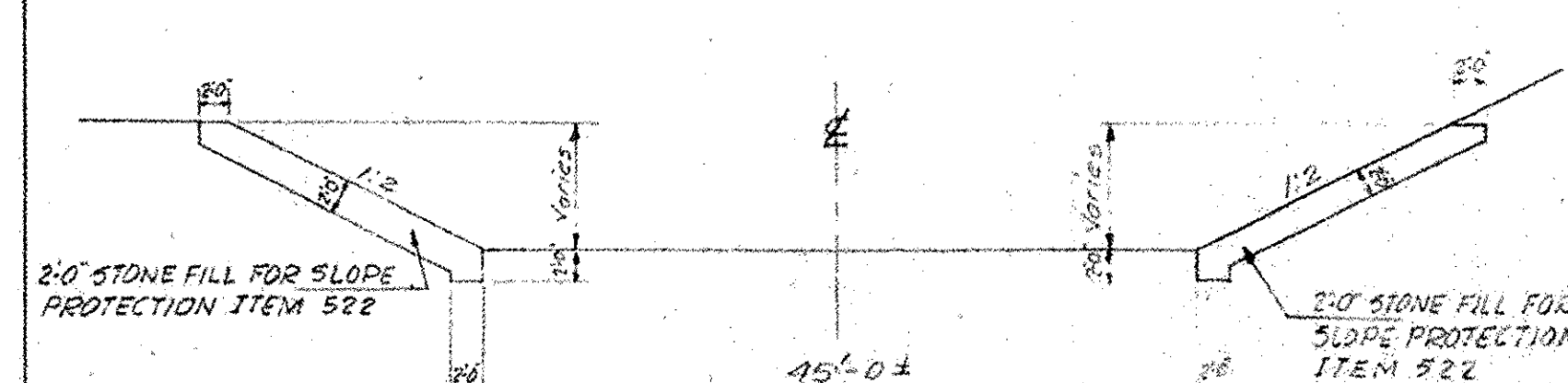
- 1 RATED LOADING OF EXISTING STRUCTURE H15
- 2 TYPE OF EXISTING STRUCTURE SINGLE SPAN PONY TRUSS
- 3 UNDERCLEARANCE ELEVATION OF EXISTING STRUCTURE 823.4
- 4 WHAT DISPOSITION SHOULD BE MADE OF EXISTING STRUCTURE TO STATE. COST OF REMOVAL \$1,000.00
- 5 SHOULD EXISTING STRUCTURE BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION OF NEW STRUCTURE NO
- 6 SHOULD NEW TEMPORARY STRUCTURE BE BUILT YES
- 7 ORDINARY HIGH WATER SURFACE ELEV. AT EXISTING STRUCTURE 823.4 WATERWAY TO ORDINARY H.W. 50 SF.
- 8 EXTREME HIGH WATER AT EXISTING STRUCTURE OBSERVED 820.9 WATERWAY TO EXTREME H.W. 200 SF.
- 9 SPAN OF EXISTING BRIDGE UPSTREAM 34 FT. WATERWAY TO EXTREME H.W. 110.5 SF.
- SPAN OF EXISTING BRIDGE DOWNSTREAM 35 FT. WATERWAY TO EXTREME H.W. 160.0 SF.
- 10 TYPE OF FOUNDATION UNDER EXISTING ABUTMENTS MOIST SAND CORRECTIONS AND REPAIRS
- 11 DOES ALL WATER AT FLOOD ELEVATION PASS THROUGH EXISTING STRUCTURE YES
- 12 IF NOT AT WHAT ELEVATION IS RELIEF AFFORDED NONE
- 13 ADDITIONAL WATERWAY AREA PROVIDED NONE

NEW STRUCTURE

- 1 RECOMMENDED TYPE OF STRUCTURE THREE SPAN COMPOSITE DECK AND STEEL BEAM BRIDGE (87.48' NON-STANDARD)
- 2 RECOMMENDED CLEAR SPAN OR SPANS DEPARTMENT STANDARD SPANS 32'-32'-32' 6"-3' 0" REG.
- MEASURED PARALLEL TO NEW HIGHWAY 28.05'-28.05'-28.05' CLEAR SPANS # 84.86'
- MEASURED AT RIGHT ANGLES TO STREAM 16.01'-16.01'-16.01' CLEAR SPANS
- 3 ARE THERE OBJECTIONS TO A PIER IN THE STREAM, ANSWER YES OR NO YES
- 4 ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE 819.5
- 5 EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE 819.5 SOURCE OF INFORMATION LOCAL RESIDENTS
- 6 IS ALL WATER INTENDED TO PASS THROUGH NEW STRUCTURE? YES
- 7 DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY? NO IS ORDINARY RISE RAPID? YES
- 8 LOW WATER ELEVATION AT NEW STRUCTURE 819.5
- 9 DRAINAGE AREA IN ACRES ABOVE STRUCTURE 11,000 CHARACTER OF TERRAIN HILLY
- 10 IS STREAM EVER DRY? NO
- 11 VELOCITY OF STREAM AT DESIGN HIGH WATER STAGE 14.6 FPS ESTIMATED DISCHARGE 7830 CFS
- 12 AREA FULL OPENING 450 S.F. AREA BELOW ORDINARY H.W. 70 S.F. BELOW E.H.W. 250 S.F.
- 13 CHARACTER OF SCOUR NEGLECTIBLE DRIFT POSSIBLE ICE VERY POSSIBLE
- 14 ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE NOT APPLICABLE
- 15 VERTICAL CLEARANCE ABOVE FLOOD ELEVATION 1.0 FT. 1' ABOVE DESIGN HIGH WATER
- 16 ARE SIDEWALKS REQUIRED, IF SO ON WHAT SIDE NONE BOTH SIDES ---
- 17 RECOMMENDED TYPE OF PAVEMENT 2 1/2 INCHES BITUMINOUS CONCRETE ITEM 361-B
- 18 TRAFFIC TO BE MAINTAINED UNDER ITEM NO. 108 ONE OR TWO WAYS TWO PROBABLE COST ---
- 19 PROBABLE COST OF CLEARING AND GRUBBING STREAM CHANNEL AT STRUCTURE SITE NONE
- 20 SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES? NO
- 21 ESTIMATED ALLOWABLE LOAD ON FOUNDATIONS 2.0 T/SF SHOULD PILES BE USED? NO EST. LGTH. ---
- 22 DESIGN LOADING AASHTO H20-S16

BRIDGE 16
FOR REFERENCE ONLY

SHEET 9 OF 16



TYPICAL SECTION CHANNEL IMPROVEMENT
SCALE 1"=10'

DEPT. STANDARD BRIDGE SHEET NOS.

1. SCB-30-58 10F2
2. SCB-30-58 20F2
3. 58-20-56
4. 58-56-57 10F2

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

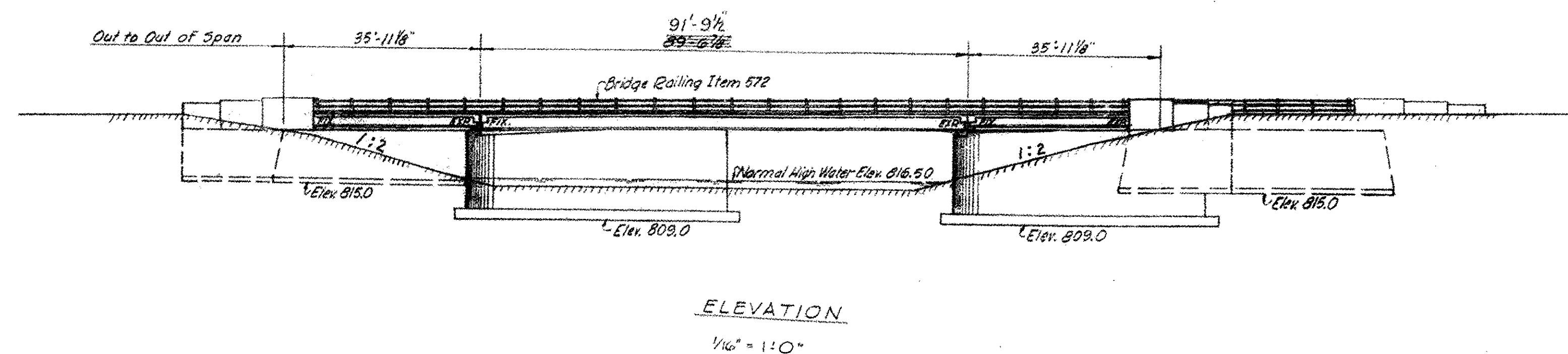
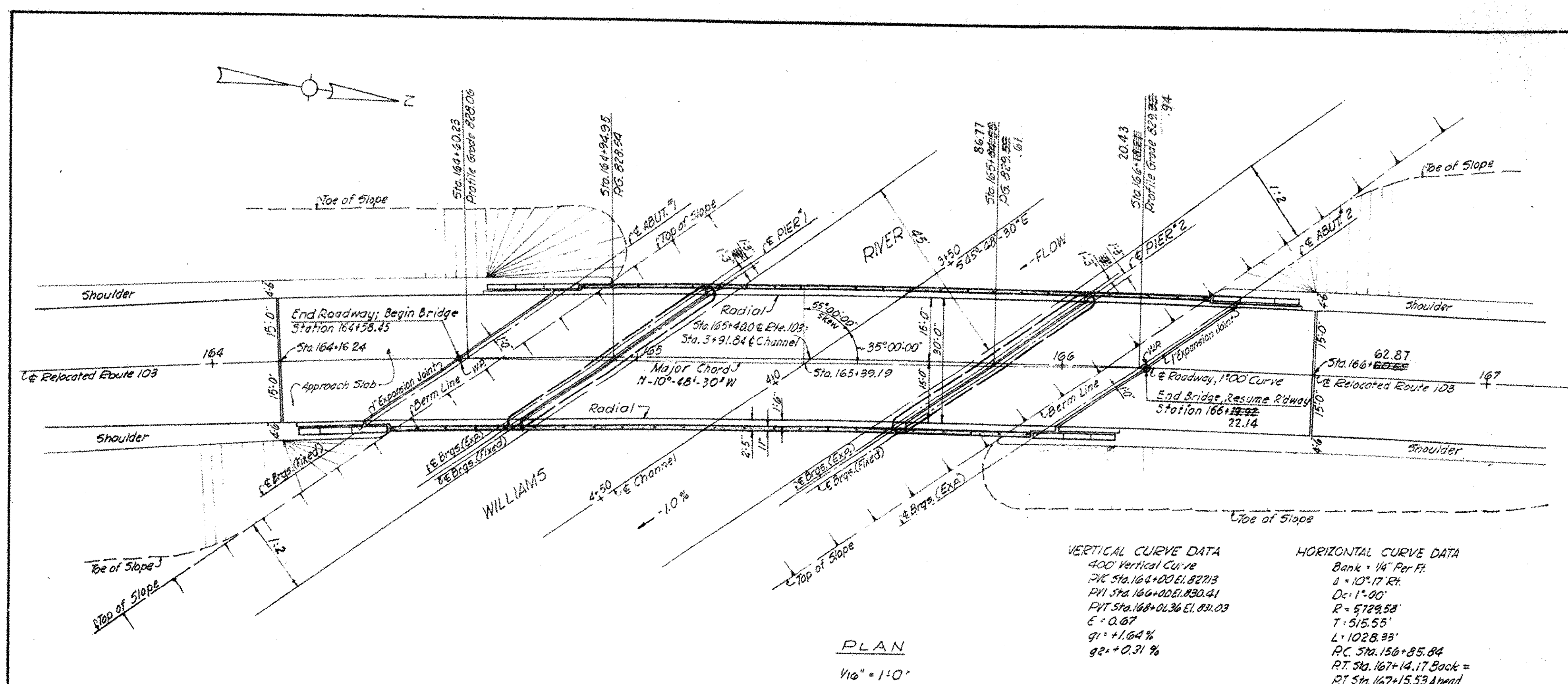
ROUTE 103
CHESTER PROJECT F 025-1(8)
BRIDGE AT STATION 165+40

PRELIMINARY INFORMATION SHEET

SURVEYED BY J. L. B. CHECKED BY J. L. B. SCALE AS SHOWN
DRAWN BY J. L. B. IN CHARGE J. L. B. DATE 2-2-55
PROJECT NO. F 025-1(8) SHEET 35 OF 208

CORRECT
BRIDGE ENGINEER

APPROVED
CHIEF ENGINEER



GENERAL NOTES:

- Design in accordance with the American Association of State Highway Officials Standard Specifications for Highway Bridges, 1957, and the State of Vermont Department of Highways Standard Specifications for Highway & Bridge Construction, 1956.
- Design Live Loading H20-516-S16.
- All elevations from U.S.G.S. datum.
- Foundations shall be taken to elevations given on plans unless otherwise directed by the Engineer.
- Existing structure shall be dismantled and stored according to the direction of the Engineer, for disposition by the State. The Contractor shall erect a temporary bridge for the purpose of maintaining traffic during construction of the new structure.
- All concrete shall have an ultimate compressive strength of 3,000 PSI at the age of 28 days.
- All reinforcing steel shall be intermediate grade with an allowable tensile working stress of 20,000 PSI. Deformations shall conform to ASTM Designation A-305-53T.
- All structural steel shall conform to ASTM Designation A-7 and shall have an allowable tensile working stress of 18,000 PSI.

ESTIMATE OF BRIDGE QUANTITIES

Final	Item No.	Item Description	Unit	Neat	Overrun	Total
3,441	106-C	Unclassified Channel Excavation	C.Y.	4,987	513	5,500
725	107	Structure Excavation	C.Y.	623	67	690
129	222	Gravel Backfill	C.Y.	156	14	170
* 0	361-B	Bituminous Concrete Pavement	Tons	115	15	130
983	401-B	Concrete Class B" (MOD)	C.Y.	992	50	1,042
71,201	402	Reinforcing Steel	LB.	68,196		68,196
1	409	Spiral Reinforcement - 4620#	LS	1		1
193,600	404-A	Structural Steel	LB.	183,815	3,785	193,600
74	407	Asphaltic-Asbestos Coating	S.Y.	74		74
1	441	Temporary Bridge	LS	1		1
1	442	Removal of Present Superstructure	LS	1		1
875	521	Stone Fill (Heavy Type)	C.Y.	700	70	770
1,245	522	Stone Fill For Slope Protection	C.Y.	900	100	1,000
382	556-C	Granite Bridge Curb	L.F.	369		369
354	572	Bridge Railing	L.F.	297		297
220	318	Tar Emulsion For Bridge Floors	Gal	323		323

*Included in Roadway Quantity

INDEX TO BRIDGE DRAWINGS

TITLE	PLAN SHEET NO.
General Plan & Elevation	36 OF 208
Framing Plan	37 OF 208
Abutment No. 1	38 OF 208
Abutment No. 2	39 OF 208
Wingwall & Miscellaneous Details	40 OF 208
Piers	41 OF 208
Approach Slabs	42 OF 208
Reinforcing Schedule	43 OF 208
Channel Sections	44 OF 208
Vermont Dept. of Highways Standards	67-71

BRIDGE 16
FOR REFERENCE ONLY

SHEET 10 OF 16

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF CHESTER

ROUTE NO. 103 LOG STA.

GENERAL PLAN

AND ELEVATION

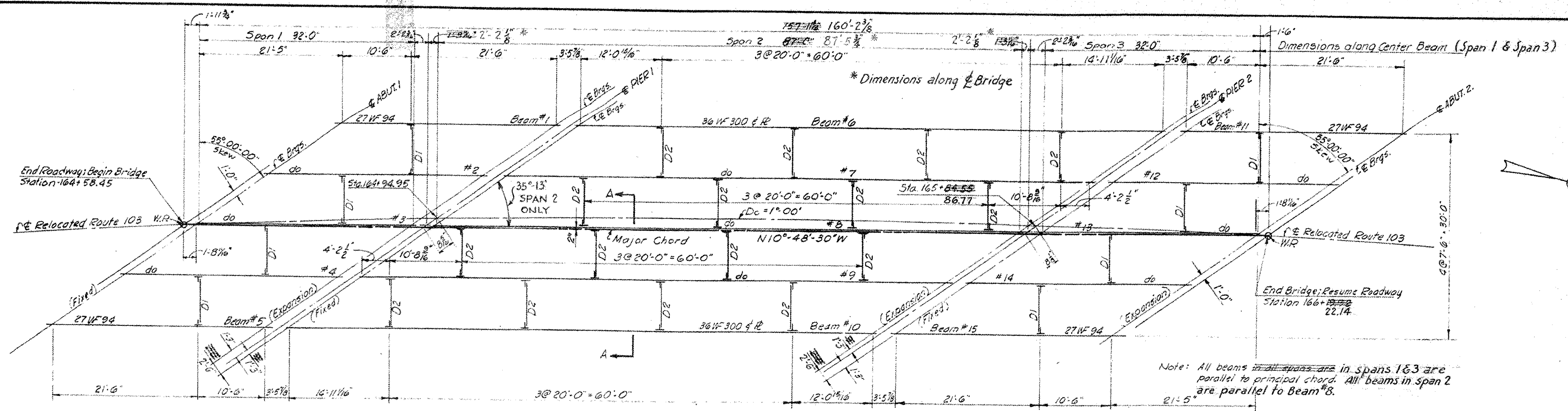
SCALE AS NOTED

SURVEYED BY R.S.

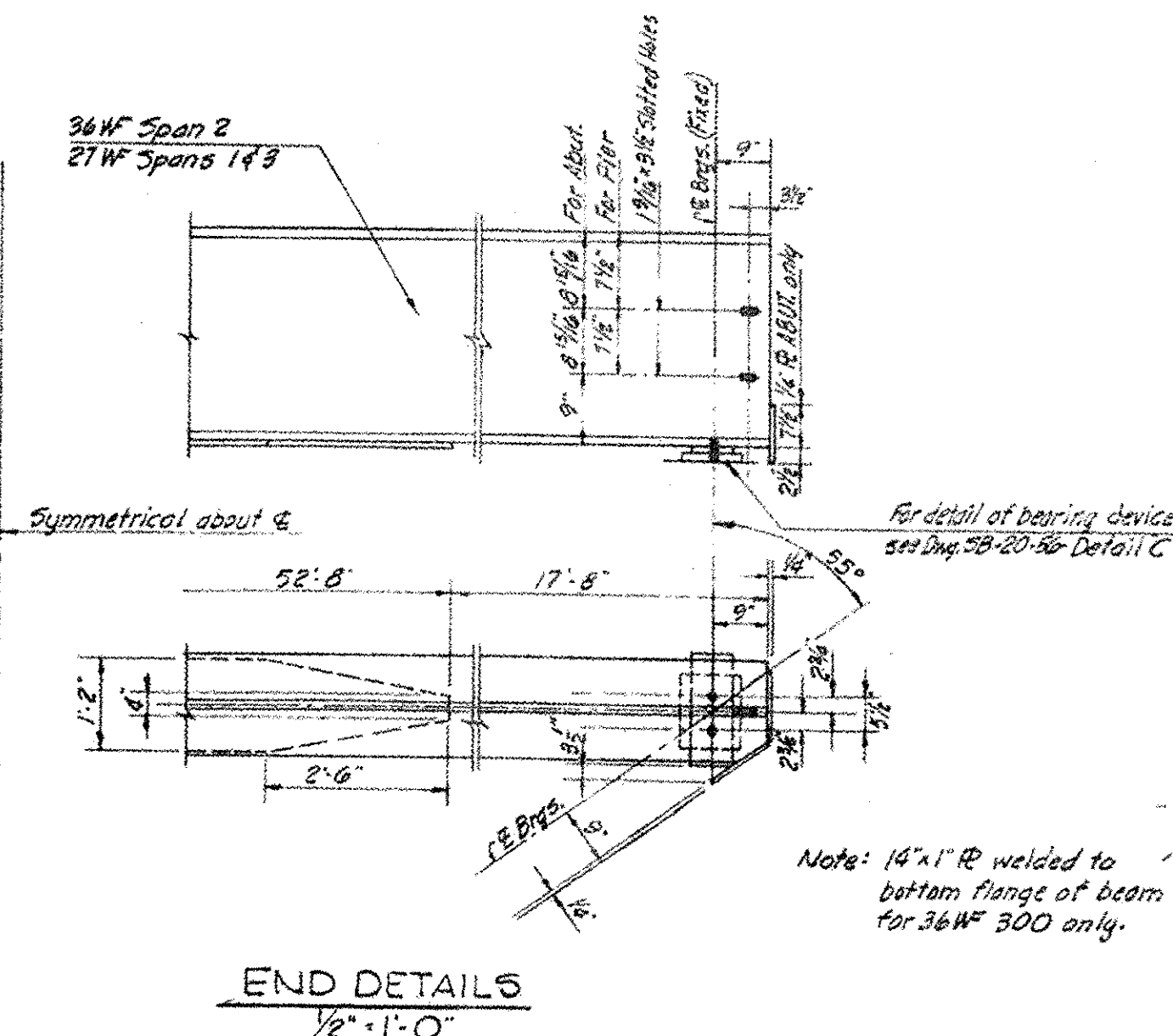
DRAWN BY H.M.S. CHECKED BY J.H.S.

PROJECT NO. F 025-1181

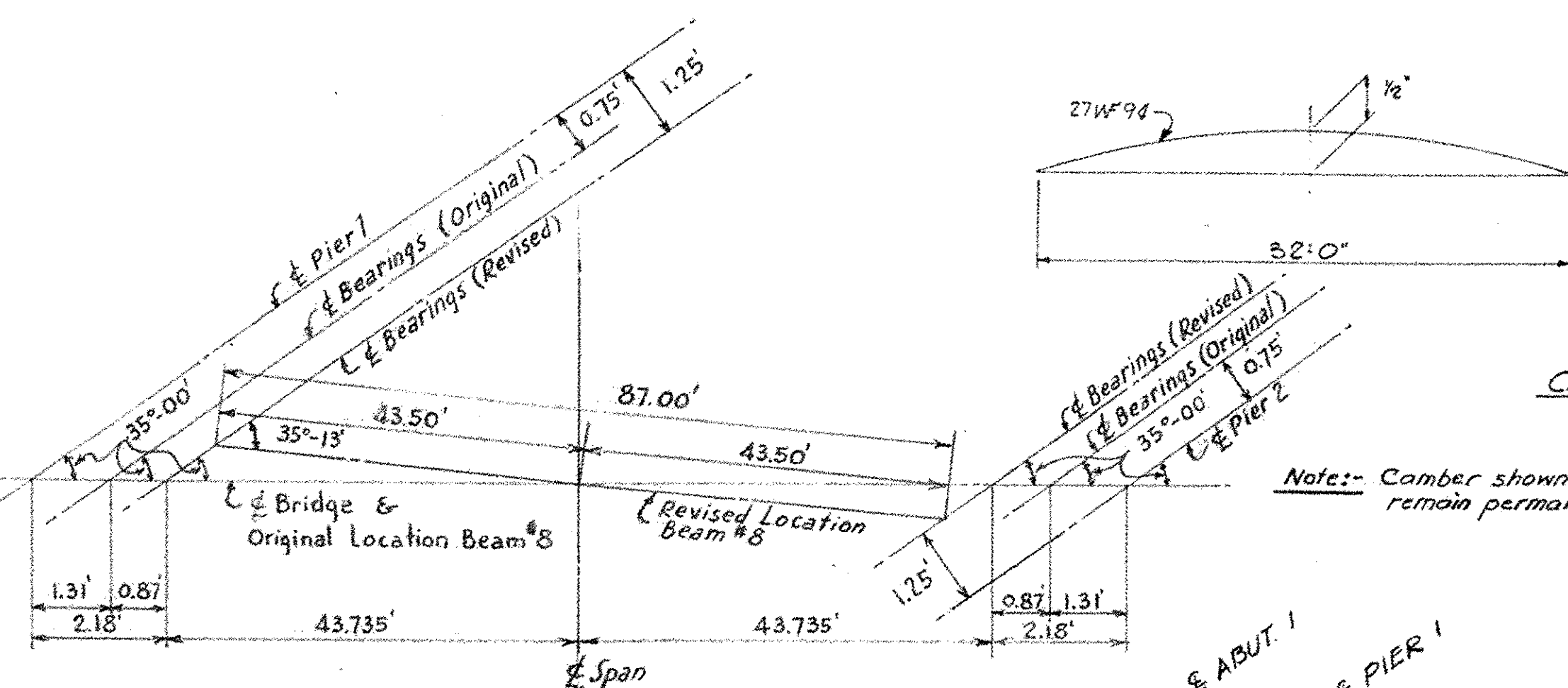
SHEET 36 OF 208



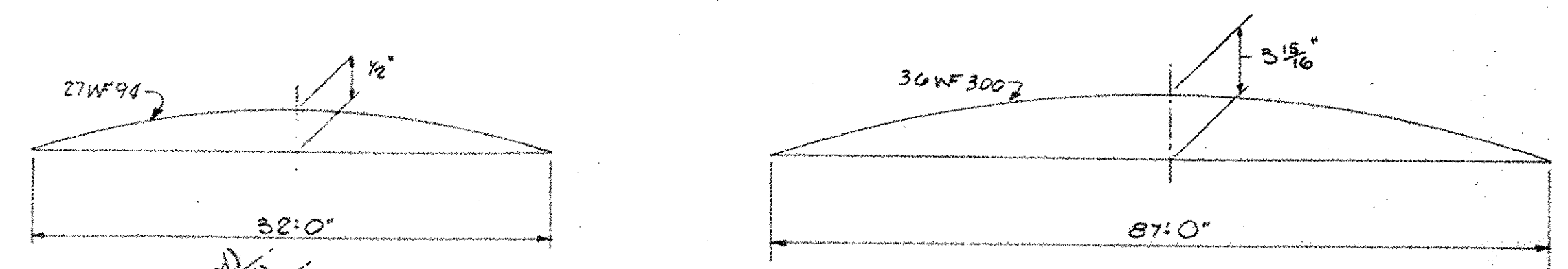
PLAN
1/8" = 1'-0"



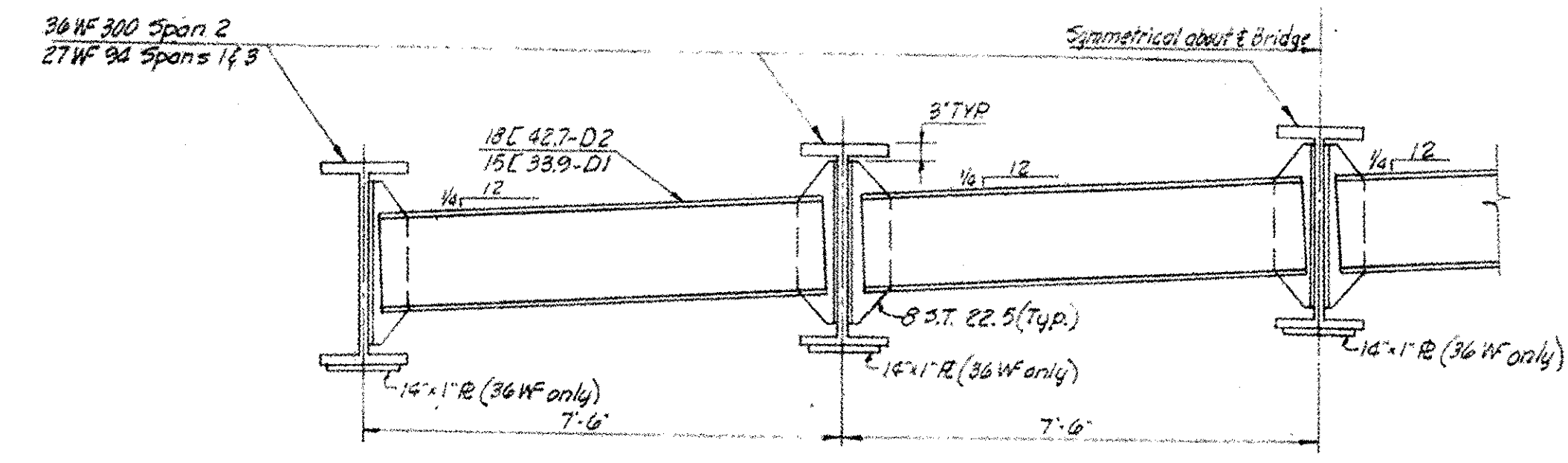
END DETAILS
1/2" = 1'-0"



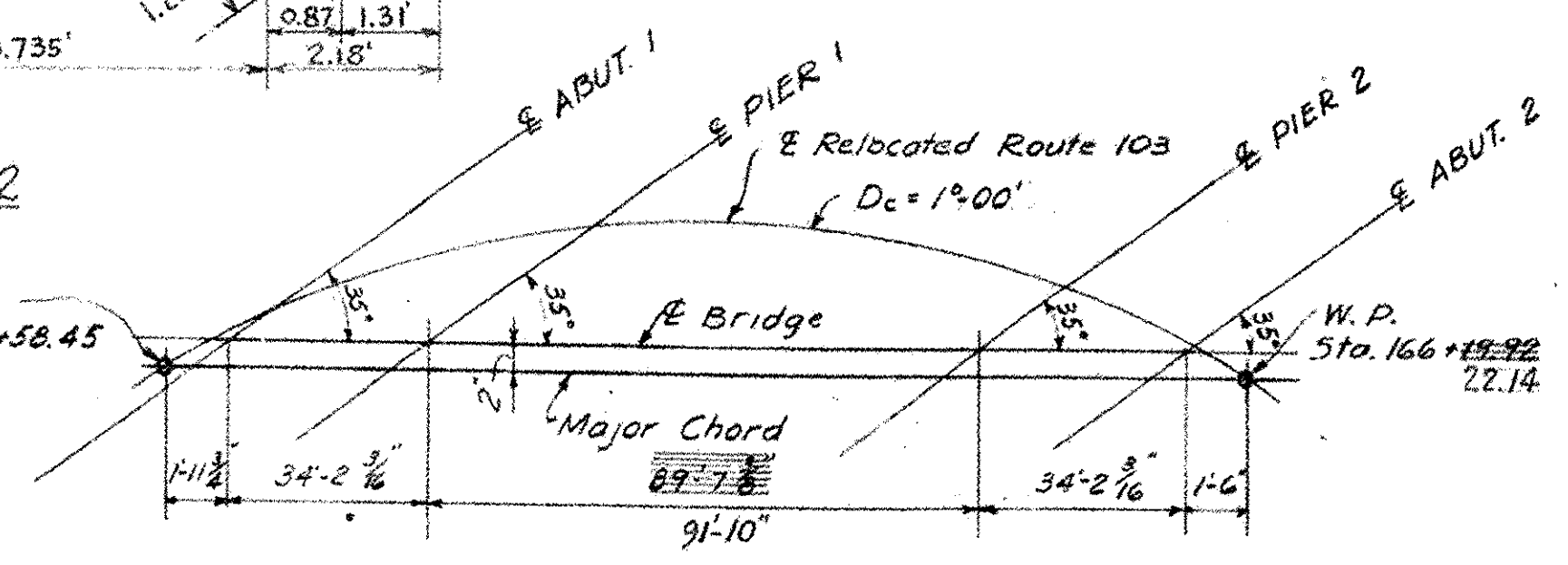
REVISED LAYOUT SPAN 2
No Scale



CAMBER DIAGRAM
No Scale



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



LAYOUT DIAGRAM
No Scale

ESTIMATE OF SHEET QUANTITIES					
ITEM NO.	ITEM DESCRIPTION	FINAL	UNIT	NEAT	OVERRUN
404-A	Structural Steel	193,600	LB.	189,815	3,785

BRIDGE 16
FOR REFERENCE ONLY
SHEET 11 OF 16

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF CHESTER

ROUTE NO. 103 LOG STA.

FRAMING PLAN

SCALE AS NOTED

SURVEYED BY R.S.

DRAWN BY H.M.S. CHECKED BY J.T.H.

PROJECT NO. F 025-118

SHEET 37 OF 208

INDEX OF SHEETS

SHEET NO.	1	TITLE PAGE
"	2	TYPICAL CROSS-SECTION OF IMPROVEMENT
"	3	BANKING AND WIDENING TABLES
"	4-5	EARTHWORK SHEETS
"	6	QUANTITY SHEET (DRAINAGE)
"	7	QUANTITY SHEET (ITEMS)
"	8-9	PLAN AND PROFILE
"	10	PRELIMINARY INFORMATION SHEET
"	11	STRUCTURE SHEET-BRIDGE PLAN AND ELEVATION
"	12	STRUCTURE SHEET-ABUTMENT NO.1 (DETAIL)
"	13	STRUCTURE SHEET-ABUTMENT NO.2 AND LT. WING (DETAILS)
"	14	STRUCTURE SHEET-ABUTMENT NO.2 AND RT. WING (DETAILS)
"	15	STRUCTURE SHEET-SUPERSTRUCTURE
"	16	STANDARD STRUCTURE SHEET SB-55-1 BRIDGE RAILING
"	17	STANDARD STRUCTURE SHEET SB-20 TYPICAL DETAILS
"	18	STANDARD STRUCTURE SHEET SB-11 BARRICADES, SIGNS AND LIGHTS (BRIDGE)
"	19	STANDARD STRUCTURE SHEET S-40 BARRICADES, SIGNS AND LIGHTS (ROADWAY)
"	20	STANDARD STRUCTURE SHEET S-41 TYPICAL GRADING
"	21	STANDARD STRUCTURE SHEET S-46-45 PROJECT MARKERS
"	22	STANDARD STRUCTURE SHEET S-47-45 PIPE CULVERTS
"	23	STANDARD STRUCTURE SHEET S-45-45 TWO CABLE GUARD RAIL
"	24	STANDARD STRUCTURE SHEET S-51-48 STEEL BEAM GUARD RAIL TYPE II SAFETY BEAM
"	25	STANDARD STRUCTURE SHEET S-52-48 STEEL BEAM GUARD RAIL TYPE I FLEX BEAM
"	26-44	CROSS SECTIONS

STANDARD STRUCTURE SHEETS APPROVED BY THE CHIEF ENGINEER, VERMONT STATE DEPARTMENT OF HIGHWAYS.

S-40 JUNE 10, 1950
S-46-45 JAN. 16, 1950
S-47-45 JAN. 16, 1950

S-51-48 NOV. 10, 1947
S-52-48 NOV. 10, 1947

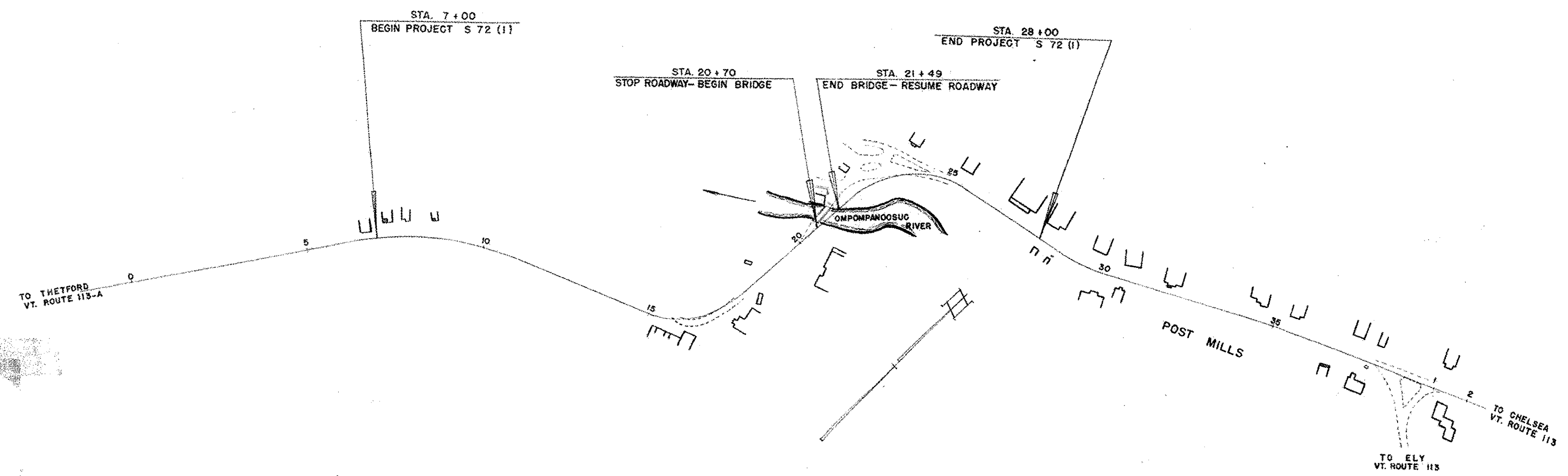
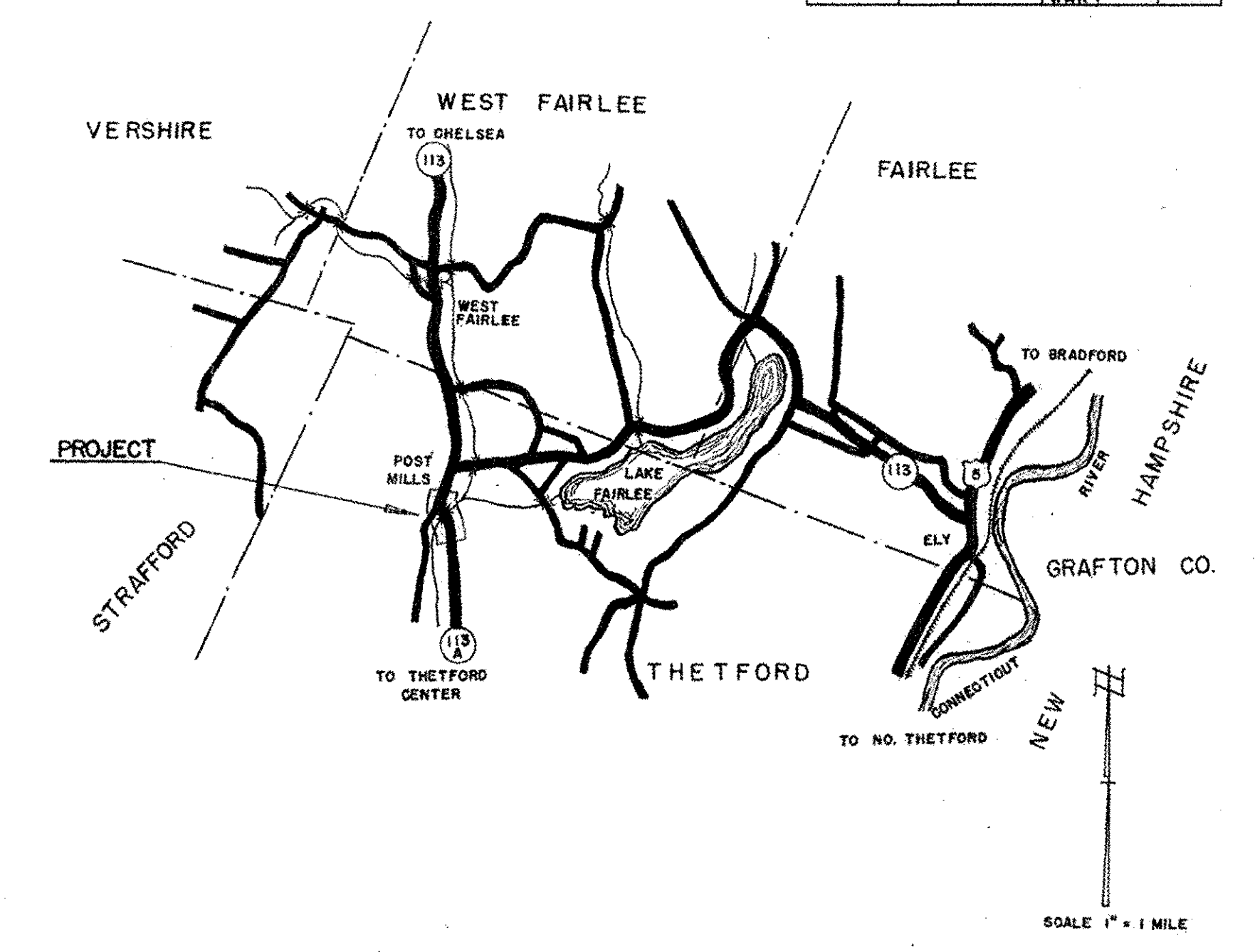
STATE OF VERMONT
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

TOWN OF THETFORD
COUNTY OF ORANGE
VERMONT ROUTE 113-A
CHELSEA-THETFORD CENTER ROAD

BEGINNING AT A POINT 3,181.5 FEET SOUTHWESTERLY OF THE INTERSECTION OF VERMONT ROUTES 113-A AND 113 AND EXTENDING NORTHEASTERLY 2,100 FEET ON VERMONT ROUTE 113-A

LENGTH OF ROADWAY 2,021.0 FT.=0.383 MI.
LENGTH OF BRIDGE 79.0 FT.=0.015 MI.
LENGTH OF PROJECT 2,100.0 FT.=0.398 MI.



PROJECT Thetford - Post Mills Rd.
SHEET 5-72(1)
TYPE W. Bay & Co. Inc. & 30' Bay & Co. Inc.
CONTRACTOR Miller Coal Co.
LOCATION Rt. 113-A
YEAR 19

GROUND ELEVATION DATUM LINE
GRADE ELEVATION DATUM LINE

CURVE DATA

DEFLECTION ANGLE	Δ
DEGREE OF CURVE	D
RADIUS OF CURVE	R
TANGENT DISTANCE	T
LENGTH OF CURVE	L
EXTERNAL DISTANCE	E
POINT OF INTERSECTION	P. I.
POINT OF CURVE	P. C.
POINT OF TANGENT	P. T.
POINT ON TANGENT	P. O. T.

SCALES

TITLE	1" = 200'
TYPICAL	1" = 2'
PLAN	1" = 30'
PROFILE HORIZONTAL	1" = 30'
PROFILE VERTICAL	1" = 10'
CROSS SECTIONS	1" = 5'

APPROVED: FEB. 16, 1951
H. H. Houghton
CHIEF ENGINEER
SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD

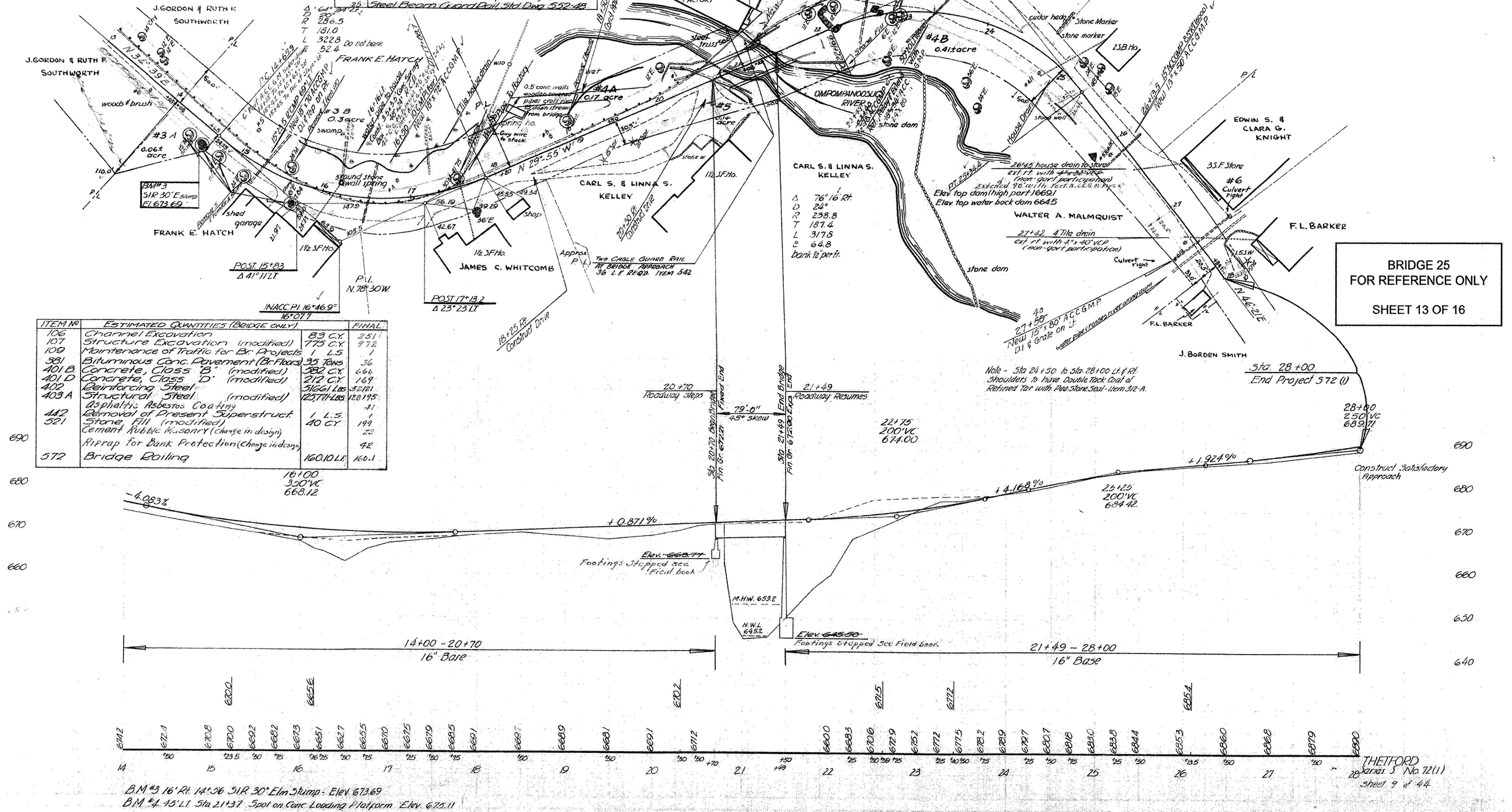
BRIDGE 25
FOR REFERENCE ONLY
SHEET 12 OF 16

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE REQUIRED BY THE BUREAU OF PUBLIC ROADS OR THE COMMISSIONER OF HIGHWAYS.
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THE PLANS AND THE STANDARD ROAD AND BRIDGE SPECIFICATIONS OF 1948, AS APPROVED JULY 25, 1949 BY THE BUREAU OF PUBLIC ROADS, INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE SUBMITTED WITH THE PLANS.

APPROVED NOV. 13, 1950 <i>[Signature]</i> BRIDGE ENGINEER	APPROVED FEB. 16, 1951 <i>[Signature]</i> HIGHWAY ENGINEER	APPROVED FEB. 24, 1951 <i>[Signature]</i> DISTRICT HIGHWAY COMMISSIONER	SERIES 5 NO. 72 (1) FILED SHEET 1 OF 44
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BRIDGE DATA		
Item	Present	Proposed
Overall Span along & Road	52'-8"	70'-0"
roadway Width Face to Face of Curb	16'-0"	30'-0"
Clear Span Along & of Road	50'-0"	75'-0"
Clear Span Normal to Stream	47'-0"	71'-0"
Clear Height to Low Bridge Seat	23'-0"	2'-0"
Max. High Water Elev.	633.2	631.0
Waterway Area to Low Bridge Seat	1000 sq	1290 sq
Normal 15 Max. H.W. Elev.	400 sq	500 sq
To Stream 1/8 Normal H.W. Elev.	260 sq	300 sq
Stream Velocity	10 ft	10 ft
Drift & Scour	None	None

LIST OF SHEETS (Br only)	
10	Preliminary Information Sheet
11	Plan & Profile
12	Bridge Plan & Elevation
13	Abutment No. 1 (Detail)
14	Abutment No. 2 & Lt. Wing (Details)
15	Abutment No. 2 - Rt. Wing (Details)
16	Superstructure
17	Side Pipe & Spindle Rail - Std. Dwg. 5B-551
18	Typical Details - Std. Dwg. 5B-201 (Det. A, C, D, E, F, H, J, K, & L)
19	Barricades, Signs & Lights - Std. Dwg. 5B-11
20	Steel Beam Guard Rail - Std. Dwg. 5B-14B
21	Steel Beam Guard Rail - Std. Dwg. 5B-14B

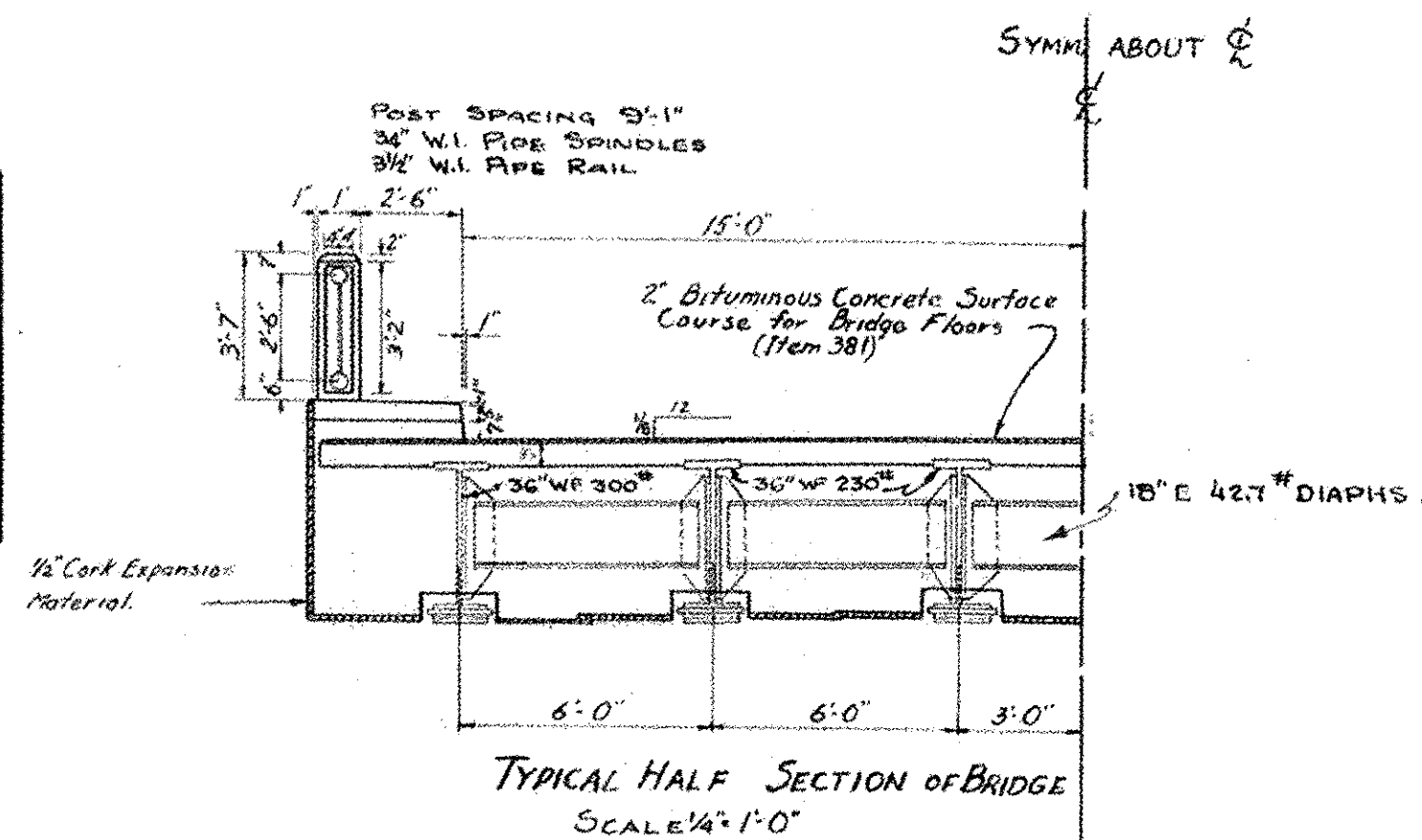
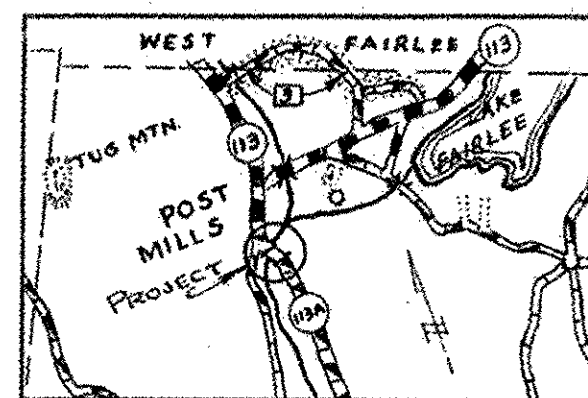


NEW HIGHWAY SECT. SEE SHEET 2 of 44

SCALE

NEW HIGHWAY PROFILE ALONG ℓ SEE SHEET 9 of 44

SCALE



TYPICAL HALF SECTION OF BRIDGE
SCALE 1/4" = 1'-0"

PLAN SEE SHEET 9 of 44

SCALE

PROFILE OF PROPOSED STREAM CHANNEL

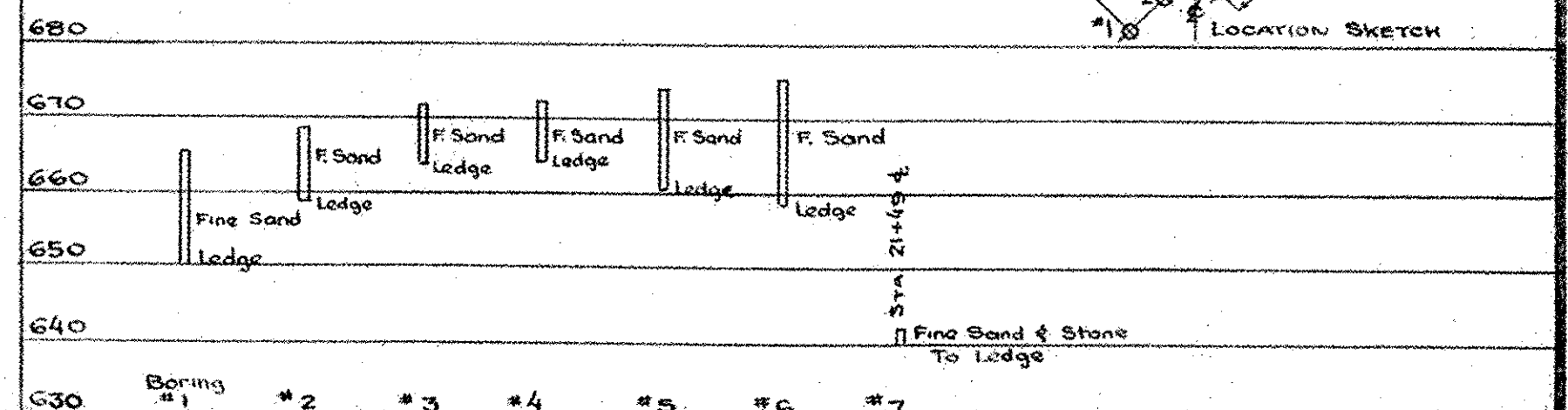
SCALE

Highway No. 113-A Name of Highway ORANGE Town THETFORD
Structure No. 25 County ORANGE Date 10/1/50
Approved Bridge Engineer, Dist. No. 9

EXISTING STRUCTURE
1. Posted loading of existing structure H-10
2. Location and type of existing structure Log Sta 392+32 STEEL RONY TRUSS, OPEN GRID FLOOR
3. Underclearance elevation of existing structure 23'-0"
4. What disposition should be made of the existing structure and probable cost of removal \$200.00
5. Should existing structure be utilized to maintain traffic during construction of new structure Yes
6. Should new temporary structure be built No
7. Ordinary high water surface elevation of existing structure or structures up or down stream 645.2
8. Extreme high water at existing structure 653.2
9. Span and waterway area below ordinary high water surface elevation of existing structure 50 FT. SPAN 400 Sq. Ft. WATERWAY
10. Type of foundation under existing abutments LEDGE
11. If existing structure is to be widened or extended, attach sketch containing complete data to prepare plans for widening or extending and to determine safe loading capacity, substructure, and superstructure.

NEW STRUCTURE
1. Recommended type of structure WF BM. CONCRETE DECK
2. Recommended clear span or spans
Measured parallel to ℓ new highway 75'-0"
Measured at right angles to ℓ stream 50.2
3. Are there objections to a pier in the stream, answer yes or no No
4. Ordinary high water elevation at new structure 648
5. Ordinary elevation of water at new structure 645.2
6. Extreme high water elevation of new structure 651
7. Does stream reach its maximum high water elevation rapidly No Is ordinary rise rapid No
8. Low water elevation at new structure 640.6
9. Drainage area in acres above structure 34,000 Character of terrain HILLY
10. Is stream ever dry No
11. Velocity of stream at high water stage 6 Ft./Sec. $\pm$
12. Recommended waterway area below ordinary high water elevation, measured at 1/2 mile of stream 500'
13. Does erosion occur No
14. Does stream carry light, medium or heavy drift and ice LIGHT
15. Should roadway be banked? If so how much per foot No
16. Are sidewalks required? If so, on what side Both sides? Yes 2'-6" WIDE
17. Recommended type of pavement REINF. CONC. SLAB WITH BIT. CONC. WEARING SURF.
18. Traffic to be maintained under what item no? 109 One or two ways? One Probable cost \$300.00
19. Probable cost of clearing and grubbing stream channel at structure site NONE
20. Should provisions be made for public utilities NONE REQUESTED
21. Estimated allowable load on foundations 40 Should piles be used? No Est. lgh

FOUNDATION INFORMATION
OBTAINED FOR DESIGN PURPOSES ONLY AND THE STATE ASSUMES NO RESPONSIBILITY WHATSOEVER FOR THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN. STA 20+70
BOULDERS MAY BE ENCOUNTERED AT ANY ABUTMENT LOCATION.



NOTES:
CASING DIA. 2 1/2" WATER JET, CORE BIT INSIDE
LEDGE OUTCROPPING THROUGHOUT ENTIRE SECTION

BRIDGE 25
FOR REFERENCE ONLY

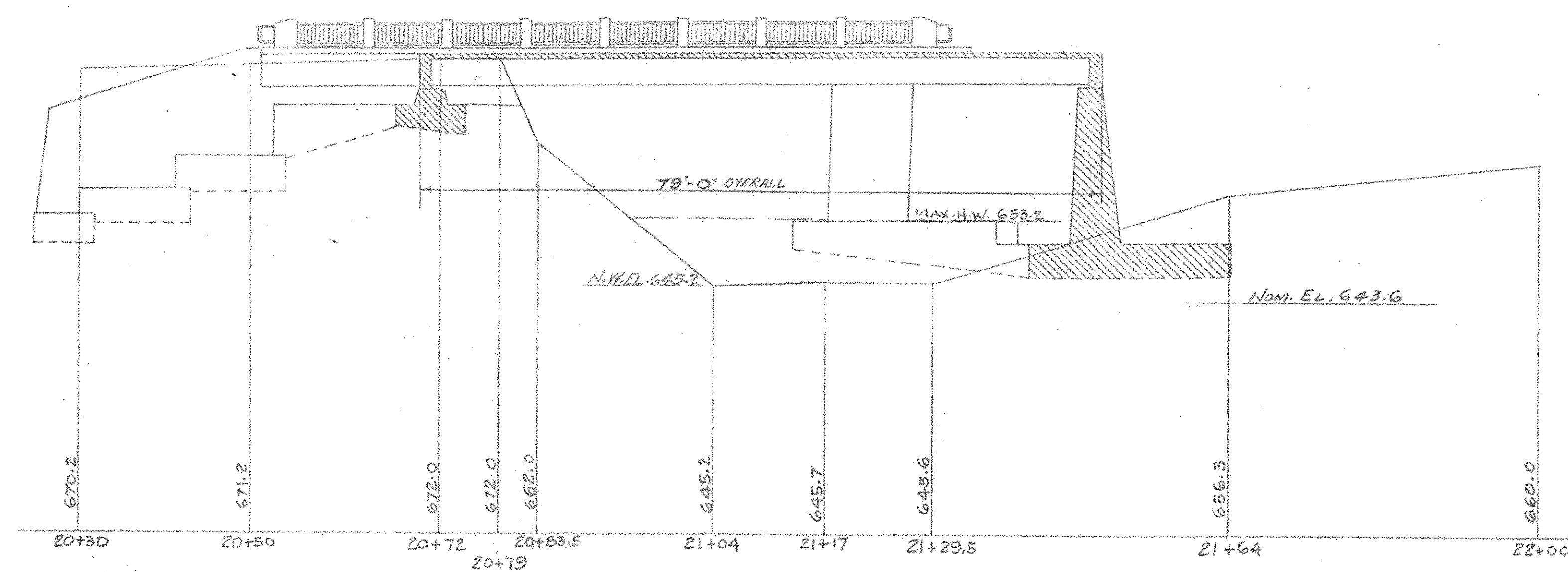
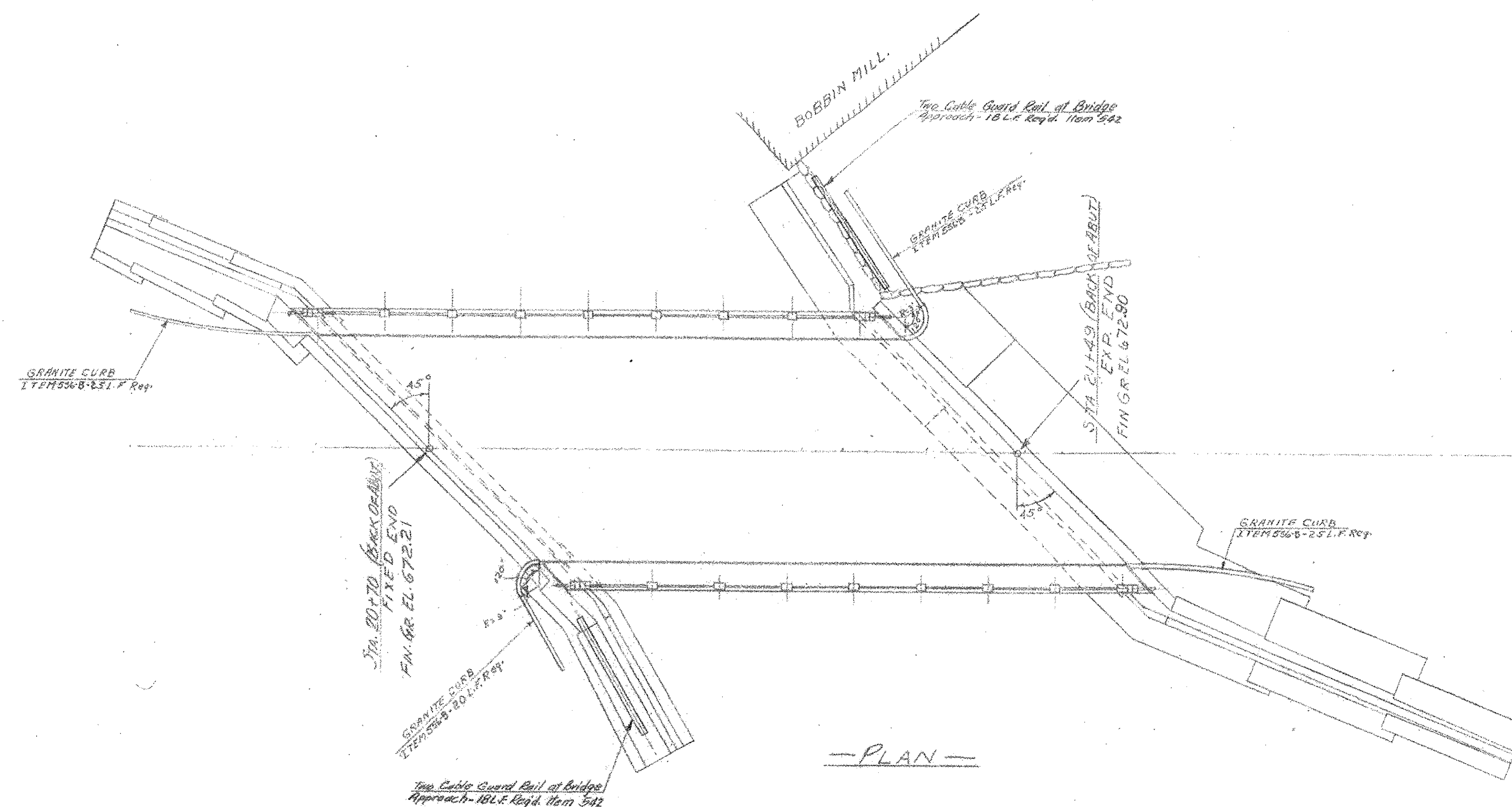
SHEET 14 OF 16

STATE OF VERMONT
DEPT. OF HIGHWAYS

RECOMMENDED FOR APPROVAL
District Engineer
Public Roads Administration
Federal Works Agency

APPROVED
Commissioner
Public Roads Administration
Federal Works Agency

CORRECT BRIDGE ENGINEER APPROVED COMMISSIONER OF HIGHWAYS PROJECT NO. 572(1)
Sheet 10 of 44 Sheets



BRIDGE 25
FOR REFERENCE ONLY

SHEET 15 OF 16

BRIDGE PLAN & ELEVATION
THETFORD (POST MILLS)

ROUTE-113A
STA. 20+70-21+49 (LOG STA. 392+32)

Surveyed by _____
Designed by _____
Drawn by W.D. 7/50
Traced by _____
Checked by N.L.H.
Series 5 No. 72(1) Filed _____
Sheet 11 of 44 Sheets

