

STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
BRIDGE PROJECT

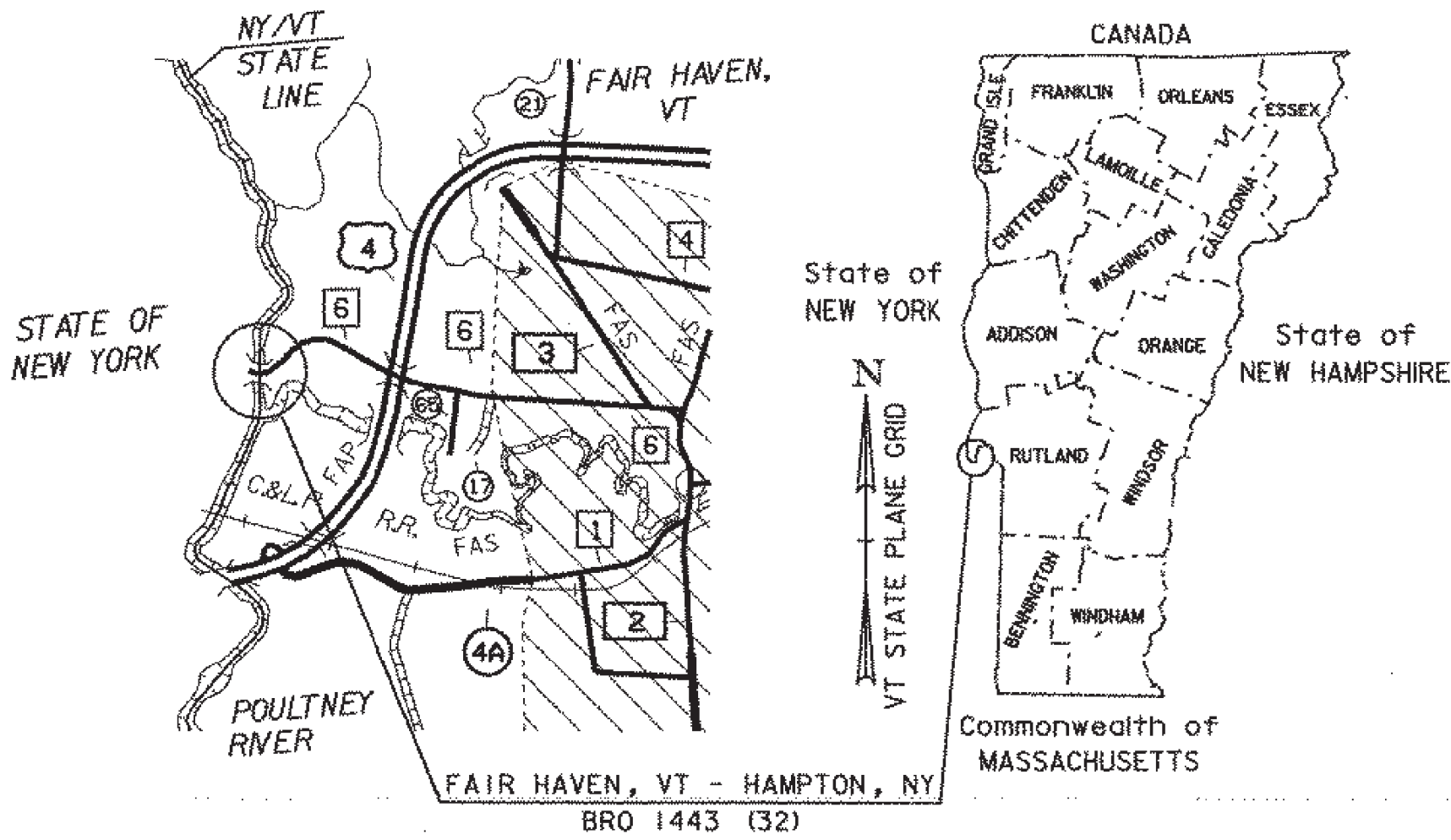
TOWN OF FAIR HAVEN, VT - HAMPTON, NY
COUNTY OF RUTLAND

ROUTE NO : TH 6, CL 2 LOCAL BRIDGE NO : 6

PROJECT LOCATION : LOCATED IN THE COUNTY OF RUTLAND, TOWN OF
FAIR HAVEN, VT AND IN THE COUNTY OF WASHINGTON,
TOWN OF HAMPTON, NY, ON TH 6, AT THE VERMONT-
NEW YORK BORDER OVER THE POULTNEY RIVER.

PROJECT DESCRIPTION : PROJECT SHALL CONSIST OF THE REPLACEMENT
OF THE EXISTING BRIDGE AND PLACEMENT OF A
CONCRETE BOX CULVERT.

LENGTH OF BRIDGE STRUCTURE : 25.455 METERS.
LENGTH OF ROADWAY : 139.545 METERS.
LENGTH OF PROJECT : 165.000 METERS.



RECORD PLANS

CONTRACTOR: AUSTIN CONSTRUCTION - CONCORD, VT

RESIDENT ENGINEER: TONY COARSE

CONSTRUCTION BEGAN: MARCH 31, 2003

CONSTRUCTION COMPLETE: JUNE 6, 2004

RECORD PLANS BY: K. NORTH, N. GARBACIK

I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY
THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

BY *[Signature]* RESIDENT ENGINEER

DATE *Jan 17, 2005*

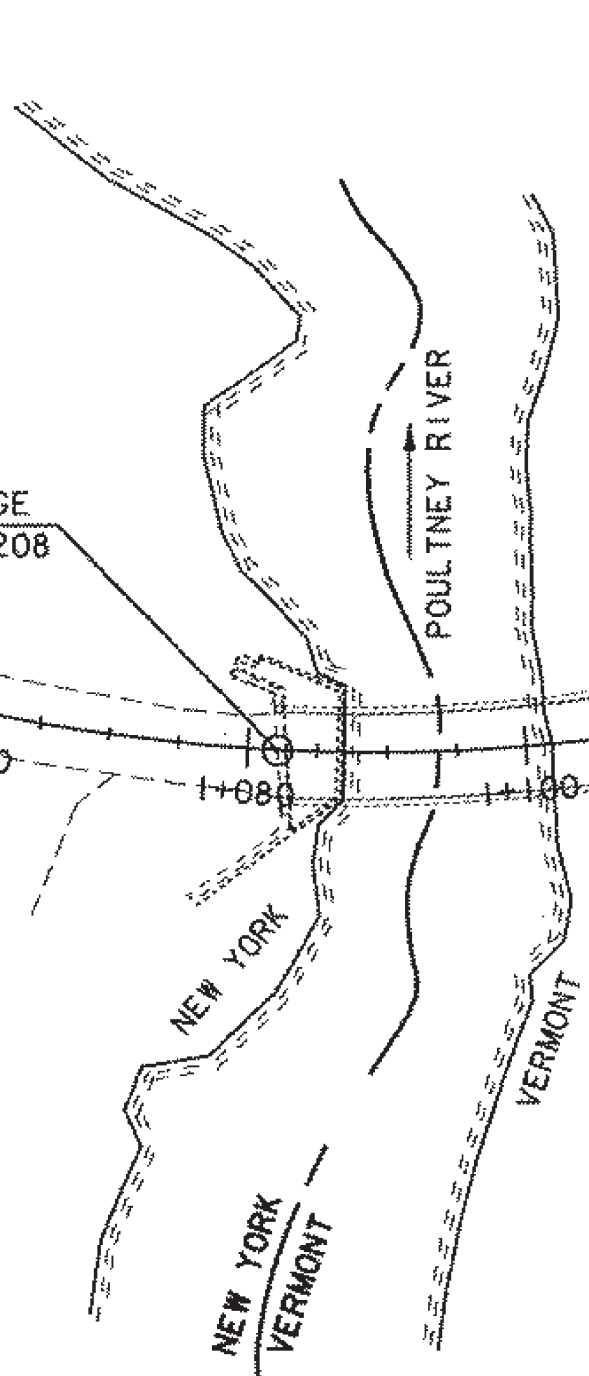
NOTE: Any further information concerning final quantities, amounts or other details
relative to this project may be found at Central Files in the electronic archives.

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 : R. GILMAN
SURVEYED DATE : SEPT 1994

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

0 10 20 30
SCALE 1:500



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING
CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY
ADMINISTRATION OR THE DIRECTOR OF PROJECT
DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE
WITH THESE PLANS AND THE STANDARD SPECIFICATIONS
FOR CONSTRUCTION DATED 2001, AS APPROVED BY THE
FEDERAL HIGHWAY ADMINISTRATION ON JANUARY 4, 2001
FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT
REVISIONS AND SUCH REVISED SPECIFICATIONS AND
SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE
PLANS.

DIRECTOR OF PROJECT DEVELOPMENT

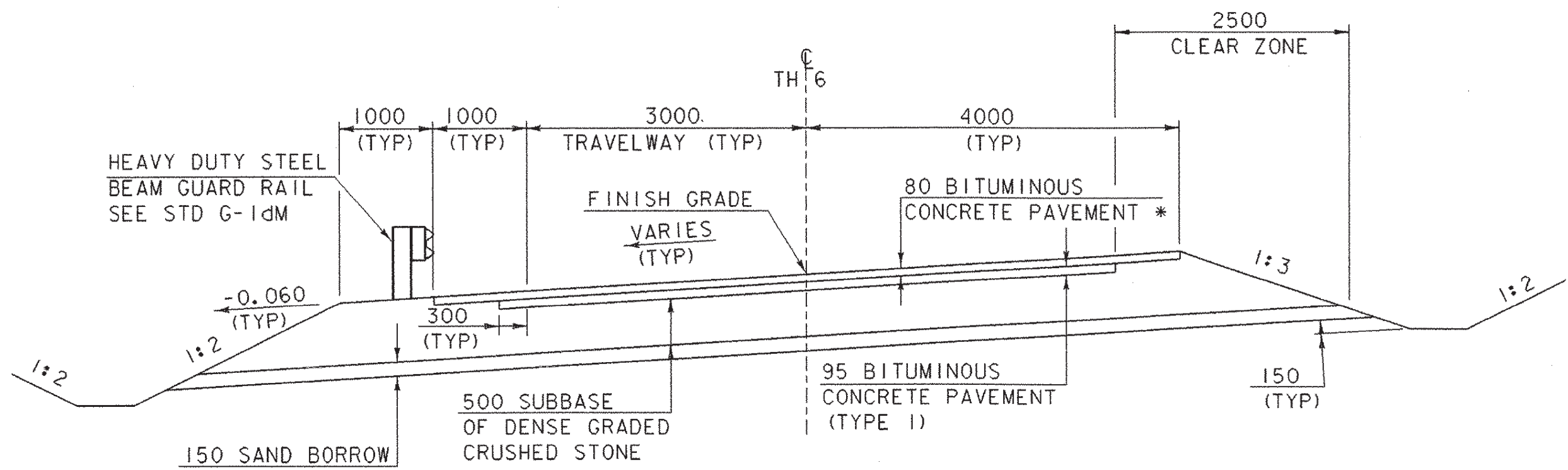
APPROVED *[Signature]* DATE *12/18/02*

PROJECT MANAGER : GARY S. ROGERS

PROJECT NAME : FAIR HAVEN, VT - HAMPTON, NY
PROJECT NUMBER : BRO 1443 (32)

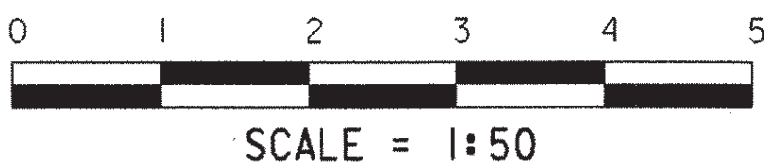
SHEET 1 OF 53 SHEETS

Metric
UNLESS NOTED OTHERWISE
STATIONS ARE IN KILOMETERS
ELEVATIONS ARE IN METERS
DIMENSIONS ARE IN MILLIMETERS



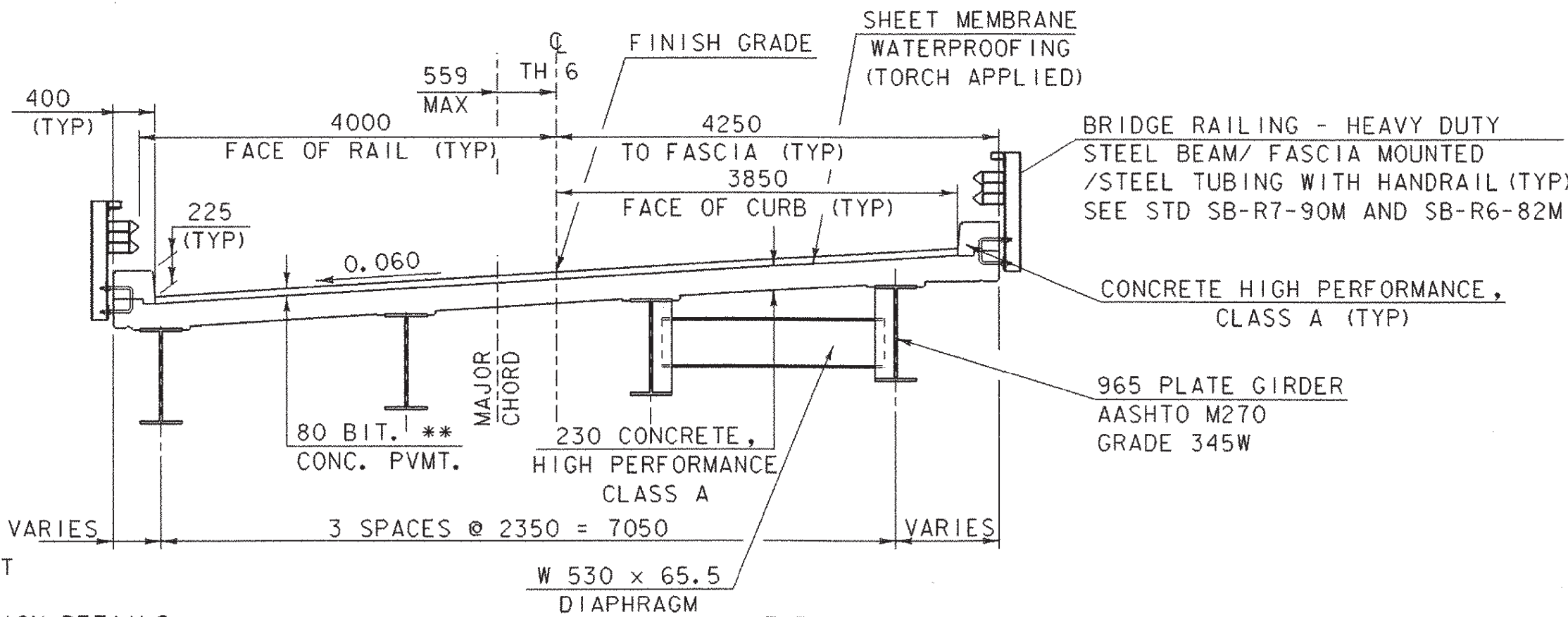
* FIRST LIFT: 40 BIT. CONC. PVMT. (TYPE III)
SECOND LIFT: 40 BIT. CONC. PVMT. (TYPE III)

ROADWAY TYPICAL



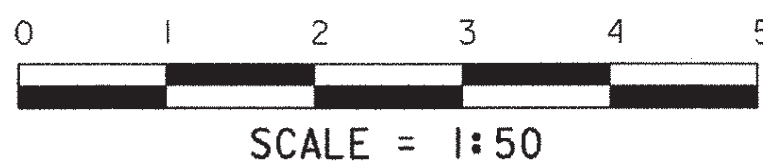
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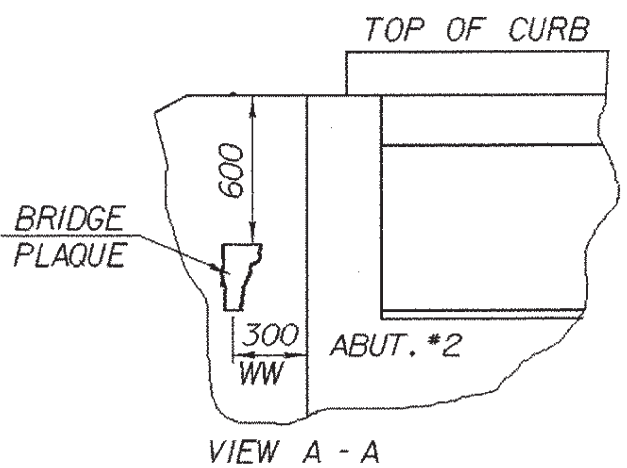
** FIRST LIFT: 40 BIT. CONC. PVMT. (TYPE III)
SECOND LIFT: 40 BIT. CONC. PVMT. (TYPE III)

BRIDGE TYPICAL



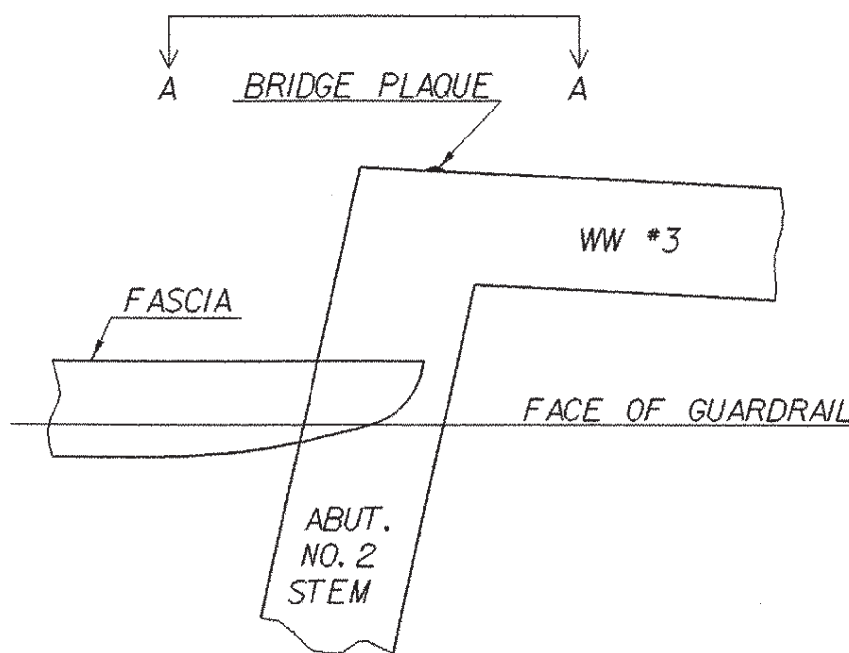
LIST OF STANDARDS

- | | |
|-----------|----------|
| A-61M | 6-13-97 |
| B-5M | 1-03-00 |
| D-2M | 6-13-97 |
| E-100aM | 2-02-98 |
| E-100M | 6-13-97 |
| E-102aM | 6-13-97 |
| E-102M | 6-13-97 |
| E-107aM | 6-13-97 |
| E-107M | 6-13-97 |
| E-193M | 6-13-97 |
| G-1dM | 1-03-00 |
| G-1M | 1-03-00 |
| G-19M | 10-21-98 |
| SB-R6-82M | 7-10-97 |
| SB-R7-90M | 7-10-97 |
| T-1M | 6-13-97 |
| T-2M | 6-13-97 |



LOCATE BRIDGE PLAQUE

THE BRIDGE PLAQUE WILL BE SUPPLIED BY THE AGENCY OF TRANSPORTATION AND SHALL BE INSTALLED BY THE CONTRACTOR AT ABUTMENT #2 ON THE LEFT SIDE AS SHOWN OR AS DIRECTED BY THE ENGINEER.
(DETAILS ABOVE ARE NOT MEANT TO BE SITE SPECIFIC.)



PLAN

HYDROLOGIC DATA

DRAINAGE AREA= 453 sq. km
CHARACTER OF TERRAIN: ROLLING, AGRICULTURAL AND MIXED COVER
CHARACTER & TYPE OF STREAM: MODERATE RELIEF, NARROW AND CONFINED
CHANNEL IN IMMEDIATE VICINITY OF BRIDGE
NATURE OF STREAMBED: AT BRIDGE, LEDGE ON BOTH BANKS AND CHANNEL BOTTOM

Q2.33= 153 cms
Q10= 202 cms
Q25= 232 cms
Q50= 252 cms
Q100= 269 cms
Q500= 325 cms

DATE OF FLOOD OF RECORD: NOVEMBER 1927
WATER SURFACE ELEV.: 92.6 m ESTIMATED DISCHARGE: UNKNOWN
NATURAL STREAM VELOCITY @ Q25 = 4.83 m/s
ICE CONDITIONS: MODERATE DEBRIS: MODERATE
DOES THE STREAM REACH MAXIMUM HIGHWATER ELEVATION RAPIDLY? NO
IS ORDINARY RISE RAPID? NO
IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? NO
IF YES, DESCRIBE.

WATERSHED STORAGE 1% HEADWATERS UNIFORM THROUGHOUT WATERSHED X
IMMEDIATELY ABOVE SITE

EXISTING STRUCTURE

STRUCTURE TYPE: SINGLE SPAN, STEEL BEAM - CONC. DECK YEAR BUILT: UNKNOWN
CLEAR SPAN (NORMAL TO STREAM): 24 m (17 m EFFECTIVE)
VERTICAL CLEARANCE ABOVE STREAMBED: 5.8 m
WATERWAY OF FULL OPENING: 90 sq. m +/-
DISPOSITION OF STRUCTURE: REMOVE SUPERSTRUCTURE & ABUTMENT NO. 2
REHABILITATE ABUTMENT #1
TYPE OF MATERIAL UNDER SUBSTRUCTURE: LEDGE UNDER EACH ABUTMENT

WATER SURFACE ELEV. @ Q2.33= 91.16m* VELOCITY= 4.44 m/s*
Q10= 91.79m* " 4.84 m/s*
Q25= 92.11m* " 5.07 m/s*
Q50= 92.39m* " 5.20 m/s*
Q100= 92.61m* " 5.31 m/s*
* WITHOUT ROADWAY OVERFLOW

LONG TERM STREAM BED CHANGES: NONE

IS THE ROADWAY OVERTOPPED BELOW THE Q100? YES FREQUENCY: Q10 (EST.)
RELIEF ELEVATION: 90.8 m DISCHARGE OVER ROAD @ Q100: UNKNOWN

UPSTREAM STRUCTURE: TOWN: FAIR HAVEN DISTANCE: 1.2 km
HIGHWAY NO.: US 4 STRUCTURE NO.: BR. 1
STRUCTURE TYPE: CONCRETE DECK GIRDER
CLEAR SPAN: 33.5 m CLEAR HEIGHT: 3 m
YEAR BUILT: 1949 FULL WATERWAY: 102 sq. m

DOWNSTREAM STRUCTURE: TOWN: WEST HAVEN DISTANCE: 0.5 km
HIGHWAY NO.: TH 3 STRUCTURE NO.: BR. 10
STRUCTURE TYPE: PONY TRUSS
CLEAR SPAN: 25 m CLEAR HEIGHT: 6.7m
YEAR BUILT: 1921 FULL WATERWAY: UNKNOWN

LOAD FACTOR LOAD RATING (METRIC TONS)

LOADING LEVELS (LOAD FACTOR)	TRUCK					
	M	MS	3S2	6 AXLE	3A.STR.	4A.STR.
INVENTORY A=2.17; B=1.00	36	49				
POSTED A=1.55; B=1.40	51	69	82		63	64
OPERATING A=1.30; B=1.67		82	97	116	75	77

STRENGTH RF = $\frac{0.9 M_N - 1.3 M_{DL}}{A \times M_{LL+1}}$ SERVICEABILITY RF = $B \left[\frac{.95 F_y S_{LL+1} - M_{DL} \frac{S_{LL+1}}{S_{LL}} - M_{SDL} \frac{S_{LL+1}}{S_{SDL}}}{1.67 M_{LL+1}} \right]$

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	% ADTT
1997	490	70	55	6	5
2017	670	95	55	7	7

20 year ESAL for flexible pavement from 1997 to 2017: 241,000
40 year ESAL for flexible pavement from 2017 to 2037: 643,000
Design speed: 50km/h

MATERIAL ITEM	TOLERANCE
PAVEMENT	±5 mm TOTAL THICKNESS
AGGREGATE SURFACE COURSE	±10 mm
SUBBASE	±30 mm
SAND BORROW	±30 mm
GRANULAR BORROW	±30 mm

PROPOSED STRUCTURE

STRUCTURE TYPE: SINGLE SPAN, PLATE GIRDER

CLEAR SPAN (NORMAL TO STREAM): 24 m (17 m EFFECTIVE)
VERTICAL CLEARANCE ABOVE STREAMBED: 5.8 m
WATERWAY OF FULL OPENING: 90 sq. m

WATER SURFACE ELEV. @ Q2.33= 91.20m* VELOCITY= 4.44 m/s*
Q10= 91.81m* " 4.84 m/s*
Q25= 92.13m* " 5.07 m/s*
Q50= 92.40m* " 5.20 m/s*
Q100= 92.62m* " 5.31 m/s*
* WITHOUT ROADWAY OVERFLOW

IS THE ROADWAY OVERTOPPED BELOW THE Q100? YES FREQUENCY: Q10 (EST.)
RELIEF ELEVATION: 90.8 m DISCHARGE OVER ROAD @ Q100: UNKNOWN

AVERAGE LOW ELEVATION OF SUPERSTRUCTURE: 92.6 m
VERTICAL CLEARANCE @ Q25 = 0.93 m

SCOUR: NONE ANTICIPATED DUE TO LEDGE
REQUIRED CHANNEL PROTECTION: NONE

PERMIT INFORMATION

AVERAGE DAILY FLOW: 10.3 cms
ORDINARY LOW WATER: 4.5 cms DEPTH: 0.9 m
ORDINARY HIGH WATER: 65.6 cms DEPTH: 3.2 m

ADDITIONAL COMMENTS

SURVEY DATA IS INADEQUATE TO ACCURATELY MODEL OVERFLOW ON THE WESTERN APPROACH. WATER SURFACE ELEVATIONS AND VELOCITIES REPRESENT THE MOST CONSERVATIVE, NO OVERFLOW CASE. THE Q10 OVERFLOW FREQUENCY VALUE IS AN ESTIMATE ONLY. ASSUMING THERE IS SOME OVERFLOW, REAL WATER SURFACE ELEVATIONS WILL BE LOWER. THE HYDRAULIC CONDITIONS OF THE NEW BRIDGE WILL BE NEARLY IDENTICAL TO THOSE OF THE EXISTING.

- DESIGN CRITERIA:
1. DESIGN LIVE LOAD AASHTO MS 22.5
 2. DESIGN SPAN 25 m @ BRG TO Q BRG
 3. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL N/A
ON LEDGE 480 kPa (ASSUMED)
 4. ALLOWABLE LOAD FOR PILING N/A TYPE
ESTIMATED LENGTH N/A
 5. ALLOWABLE STRESS FOR STRUCTURAL STEEL
AASHTO M270 GRADE 345W TENSION
 6. ALLOWABLE STRESS FOR REINFORCING STEEL
GRADE 420 TENSION
 7. ALLOWABLE STRESS FOR CONCRETE
HIGH PERFORMANCE CLASS A f'_c 30 MPa
HIGH PERFORMANCE CLASS B f'_c 25 MPa

- TRAFFIC MAINTENANCE:
1. IS TRAFFIC TO BE MAINTAINED? NO
 2. TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY N/A

SHEET NAME: PRELIMINARY INFORMATION SHEET

PROJECT NAME: FAIR HAVEN-HAMPTON HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO I443(32) BRIDGE NO.: 6
OVER: POULTNEY RIVER

FILE NAME: /str1/93j021/sj021pi.dgn PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS DRAWN BY: STRI
DESIGNED BY: C. MEUNIER IPARM NAME: sj021pi.i
BRIDGE SHEET NUMBER: SHEET 2 OF 53

QUANTITY SHEET

SUMMARY OF ESTIMATED QUANTITIES															TOTALS			DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES					
	ROADWAY		SUPER-STRUCT.		ABUT. NO 1		ABUT. NO 2		APPR SLAB NO 1		APPR SLAB NO 2		BOX	EROSION CONTROL	FULL E & C	BRIDGE QUANTITY	ROUND	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	QUANTITIES	UNIT	ITEMS	
	1																	1			LS	CLEARING AND GRUBBING (INCLUDING INDIVIDUAL TREES AND STUMPS)	201.1			
	1170																	1170			CM	COMMON EXCAVATION	203.15			
	130																	130			CM	SOLID ROCK EXCAVATION	203.16			
													10					10			CM	UNCLASSIFIED CHANNEL EXCAVATION	203.27	20	CM	204.20 TRENCH EXCAVATION OF EARTH
	260																	260			CM	SAND BORROW	203.31	1	HR	608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I (NABI)
	1300																	1300			SM	FINE GRADING-SUBGRADE	203.40	20	CM	613.10 STONE FILL, TYPE I
														20				20			CM	TRENCH EXCAVATION OF EARTH	204.20	35	SM	649.51 GEOTEXTILE FOR SILT FENCE
					10		40						310					360			CM	STRUCTURE EXCAVATION	204.25	5	KG	651.17 SEED - WINTER RYE
					20		30						200					250			CM	GRANULAR BACKFILL FOR STRUCTURES	204.30	30	SM	654.10 EROSION MATTING
	330																	330			SM	DRILLING AND BLASTING OF SOLID ROCK SUBGRADE	205.20			
	170																	170			SM	COLD PLANING-BIT.PAVEMENT	210.10			
	1010													60				1070			CM	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35			
	40																	40			CM	AGGREGATE SURFACE COURSE	401.10			
													50					50			L	TAR EMULSION	404.45			
	200																	200			KG	EMULSIFIED ASPHALT	404.65			
	512		38						7		7							564			T	MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT	406.27			
			67															67			CM	CONCRETE, HIGH PERFORMANCE CLASS A	501.33			
					17		22		13		13		44					109			CM	CONCRETE, HIGH PERFORMANCE CLASS B	501.34			
			30565															30565			KG	STRUCTURAL STEEL(PLATE GIRDER)	506.55			
					1320		1540						2150					5010			KG	REINFORCING STEEL	507.15			
					36		28											64			M	DRILLING AND GROUTING DOWELS	507.16			
			7380						760		760							9900			KG	EPOXY COATED REINFORCING STEEL	507.17			
			1															1			LS	SHEAR CONNECTORS (880-22 X 178 STUDS)	508.15			
			20		65		15						15					115			L	WATER REPELLENT	514.10			
			8															8			M	BRIDGE EXPANSION JOINT(ASPHALTIC TYPE PLUG)	516.10			
													61					61			SM	SHEET MEMBRANE WATERPROOFING	519.20			
									36		36							270			SM	SHEET MEMBRANE WATERPROOFING (TORCH APPLIED)	519.20			
			54															54			M	BRIDGE RAILING - HDSB/FASCIA MOUNTED/STEEL TUBING W/ HANDRAIL	525.44			
			140															140			SM	REMOVAL OF BRIDGE PAVEMENT	529.10			
			1															1			LS	PARTIAL REMOVAL OF STRUCTURE	529.20			
					25													25			CM	REMOVAL OF CONCRETE OR MASONRY	529.25			
			8															8			EACH	BEARING DEVICE ASSEMBLY	531.10			
													1					1			LS	PRECAST CONCRETE BOX CULVERT (2500x1500x14400)	540.10			
														1				1			HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I (NABI)	608.25			
	80													10				90			CM	STONE FILL, TYPE I	613.10			
													20					20			CM	STONE FILL TYPE II	613.11			
	14																	14			M	GATE FOR CHAIN-LINK FENCE, 1.8 METERS (MOD)	620.16			
	65																	65			M	REMOVING AND RESETTNG FENCE (MOD)	620.50			
	20																	20			M	REMOVAL OF EXISTING FENCE	620.55			
	36																	36			M	BARBED WIRE FENCE	620.60			
	70																	70			M	SNOW FENCE (MOD)	620.70			
	176																	176			M	HEAVY DUTY STEEL BEAM GUARD RAIL	621.21			
	8																	8			EACH	ANCHOR FOR STEEL BEAM RAIL	621.60			
	17																	17			M	REMOVAL AND DISPOSAL OF GUARD RAIL	621.80			

PROJECT NAME: FAIR HAVEN - HAMPTON	
PROJECT NUMBER: BRO 1443(32)	
FILE NAME: /Projects/93j021/sjo21qnt.xls	PLOT DATE: 12/20/2002
PROJECT LEADER: G.S. ROGERS	DRAWN BY: T. HUSK
DESIGNED BY: 0	CHECKED BY: C. MEUNIER
QUANTITY SHEET #1	SHEET 3 OF 53

STATE OF VERMONT AGENCY OF TRANSPORTATION														QUANTITY SHEET																				
SUMMARY OF ESTIMATED QUANTITIES																	TOTALS			DESCRIPTIONS						DETAILED SUMMARY OF QUANTITIES								
	ROADWAY		SUPER-STRUCT.		ABUT. NO 1		ABUT. NO 2		APPR SLAB NO 1		APPR SLAB NO 2		BOX	EROSION CONTROL	FULL E & C	BRIDGE QUANTITY	ROUND	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER		QUANTITIES	UNIT	ITEMS								
	4																	4			EACH	REMOVAL AND DISPOSAL OF GUIDE POSTS	621.81											
															1			1			LS	FIELD OFFICE-ENGINEERS	631.10											
															1			1			LS	TESTING EQUIPMENT - CONCRETE	631.16											
															1			1			LS	TESTING EQUIPMENT - BITUMINOUS	631.17											
															1			1			LU	FIELD OFFICE - TELEPHONE (NABI)	631.25											
	1																	1			LS	MOBILIZATION	635.10											
	1																	1			LS	TRAFFIC CONTROL	641.10											
	450																	450			M	100 mm WHITE LINE	646.20											
	450																	450			M	100 mm YELLOW LINE	646.21											
													140					140			SM	GEOTEXTILE UNDER STONE FILL	649.31											
														350				350			SM	GEOTEXTILE FOR SILT FENCE	649.51											
														40				40			SM	GEOTEXTILE FOR FILTER CURTAIN	649.61											
														10				10			KG	SEED	651.15											
														5				5			KG	SEED-WINTER RYE	651.17											
														60				60			KG	FERTILIZER	651.18											
														1				1			T	AGRICULTURAL LIMESTONE	651.20											
														1				1			T	HAY MULCH	651.25											
														10				10			EACH	HAY BALES FOR EROSION CONTROL	651.26											
														50				50			CM	TOPSOIL	651.35											
														40				40			SM	GRUBBING MATERIAL	651.40											
														30				30			SM	EROSION MATTING	654.10											
	29																	29			SM	TRAFFIC SIGNS, TYPE A (MOD)	675.20											
	135																	135			M	FLANGED CHANNEL SIGN POST (MOD)	675.301											
	3																	3			EACH	REMOVING SIGNS	675.50											
																							PROJECT NAME: FAIR HAVEN - HAMPTON			PROJECT NUMBER: BRO 1443(32)			FILE NAME: /Projects/93j021/sjo21qnt.xls			PLOT DATE: 12/19/2002		
																							PROJECT LEADER: G.S. ROGERS			DESIGNED BY: 0			PROJECT LEADER: G.S. ROGERS			DRAWN BY: T. HUSK		
																							QUANTITY SHEET #2			SHEET 4 OF 53			CHECKED BY: C. MEUNIER					

TABLE OF PROJECT PROPERTY ACQUISITION

STATE OF VERMONT
AGENCY OF TRANSPORTATION
RIGHT OF WAY PLANS
DETAIL SHEET

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS	REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	BARSALOW, WILLIAM E., SR. & BARSALOW, WILLIAM E., JR.	8,9	0+968.0 LT. 1+062.8 LT.	1+084.3 LT. 1+067.2 LT.	0.048 HA±		INSTALL (T)			HAMPTON, NY WASHINGTON CO			0.119 AC± SILT FENCE	1	7,9	PARCEL NO. 3 WETHERBY. A NEW ELECTRIC FENCE IS LOCATED LEFT OF AND BETWEEN STATIONS 1+139 AND 1+156.5. THE FENCE IS OFFSET 16.0' FROM THE LT. EDGE OF THE EXISTING ROAD.	11-27-00	S. L. D.	R. P. D.
2	HOLLISTER, JOHN H. HOLLISTER, BRIAN D. HOLLISTER, DAVID R.	8,9	0+969.5 RT. 1+030 RT. 1+053.3 RT. 1+055 RT. 1+059 RT.	1+085.3 RT. 1+058.1 RT. 1+065.2 RT. 1+063 RT.	0.049 HA±		INSTALL (T) INSTALL (T) REMOVE & RESET (T) DRIVE (T)			HAMPTON, NY WASHINGTON CO			0.121 AC± BARRIER FENCE ARCH. SENSITIVE SILT FENCE GATE POST W/STEEL CABLE 6 M (19.7') WIDE-GRAVEL			ELECTRONIC IPARMS TO STRUCTURES	11-19-02		
3A	WETHERBY, RONALD	9	1+101.7 RT. 1+112 RT. 1+112 RT. 1+117 RT. 1+117.2 RT. 1+121 RT. 1+125 RT.	1+112.0 RT. 1+117.9 RT. 1+117 RT. 1+120 RT. 1+128.7 RT. 1+140 RT.	61.5 SM±		CONST. (T) 18 SM± SLOPE (P) 14 SM± REMOVE & RESET (T) INSTALL (T) DRIVE (T) INSTALL (T)			FAIR HAVEN			662 SF± 194 SF± 150 SF± CABLE GATE SILT FENCE 4.7 M (15.4') WIDE-GRAVEL BARRIER FENCE ARCH. SENSITIVE						
3B		9	1+101.3 LT. 1+107.5 LT. 1+109.3 LT. 1+115 LT. 1+139 LT.	1+157.4 LT. 1+149.6 LT. 1+139.2 LT. 1+150 LT. 1+156.5 LT.			CONST. (T) 160 SM± SLOPE (P) 130 SM± DITCH & DRAINAGE (P) 42 SM± RESET (T) REMOVE & RESET (T)						1722 SF± 1399 SF± 452 SF± BARBED WIRE - PASTURE WIRE FENCE - ELECTRIC						
4	CENTRAL VERMONT PUBLIC SERVICE CORP.												UTILITY - FLOWAGE RIGHTS						
5	NEW ENGLAND TELEPHONE/BELL ATLANTIC												UTILITY - TELEPHONE						

ACCT.rdwown
M:\93j02\RightOfWay\rfj02id.dgn
DATE PLOTTED 28-JAN-2003

DR. (P)- DRAINAGE RIGHT
DIT. (P)- DITCHING RIGHT
CH. (P)- CHANNEL RT.
DRIVE (T)- DRIVE RIGHT
CUL. (P)- CULVERT RIGHT
[W]- WATER SOURCES

PRESENT R.O.W.
TAKING WITHOUT ACCESS
TAKING WITHOUT ACCESS ALONG PROPERTY LINE
TAKING WITH ACCESS
PERMANENT EASEMENT
TEMPORARY EASEMENT

LEGEND
--- C&T (P) --- CLEARING & TRIMMING
... CZ (P) ... CLEAR ZONE
--- CONST. (T) --- CONSTRUCTION EASEMENT
SR SR SLOPE RIGHTS
P L PROPERTY LINE
TOP OF CUT
TOE OF SLOPE

APPROVED: LAWRENCE W. BLISS DATE: 05-17-99
CHIEF, PLANS & TITLES

R. O. W. PLANS
FAIRHAVEN-HAMPTON
BRO 1443 (32)
R. O. W. SHEET 7 OF 9 SHEETS
SHEET 5 OF 53

NOTES:

1. USE THIS SHEET IN CONJUNCTION WITH STANDARDS T1M AND T2M.
2. AN ALTERNATE EROSION CONTROL PLAN MAY BE SUBMITTED BY THE CONTRACTOR, SUBJECT TO THE APPROVAL OF THE RESIDENT ENGINEER.
3. THE CONTRACTOR WILL USE OTHER TEMPORARY OR PERMANENT EROSION CONTROL MEASURES AS REQUIRED BY THE CONSTRUCTION SEQUENCE AND THE RESIDENT ENGINEER. (SEE SECTION 105.23 OF THE VERMONT STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2001).
4. THE CONTRACTOR SHALL SUBMIT A PLAN FOR MAINTAINING STREAM FLOW DURING PLACEMENT OF THE PRECAST BOX UNITS PRIOR TO THE START OF THIS WORK.

REMOVAL OF EXISTING GUIDE POSTS

STA 1+010.6 RT
STA 1+013.9 LT
STA 1+020.7 LT
STA 1+027.9 LT

HEAVY DUTY STEEL BEAM GUARD RAIL

STA 0+986.0 RT -	STA 1+008.2 RT
STA 1+015.8 RT -	STA 1+048.8 RT
STA 1+000.9 LT -	STA 1+012.0 LT
STA 1+019.6 LT -	STA 1+035.3 LT

ANCHORS FOR STEEL BEAM GUARD RAIL

STA 0+987.5	RT
STA 1+002.4	LY
STA 1+046.9	RT
STA 1+033.5	LT

HEAVY DUTY STEEL BEAM GUARD RAIL (NESTED)

STA 1+008.2 RT - STA 1+015.8 RT
STA 1+012.0 LT - STA 1+019.6 LT

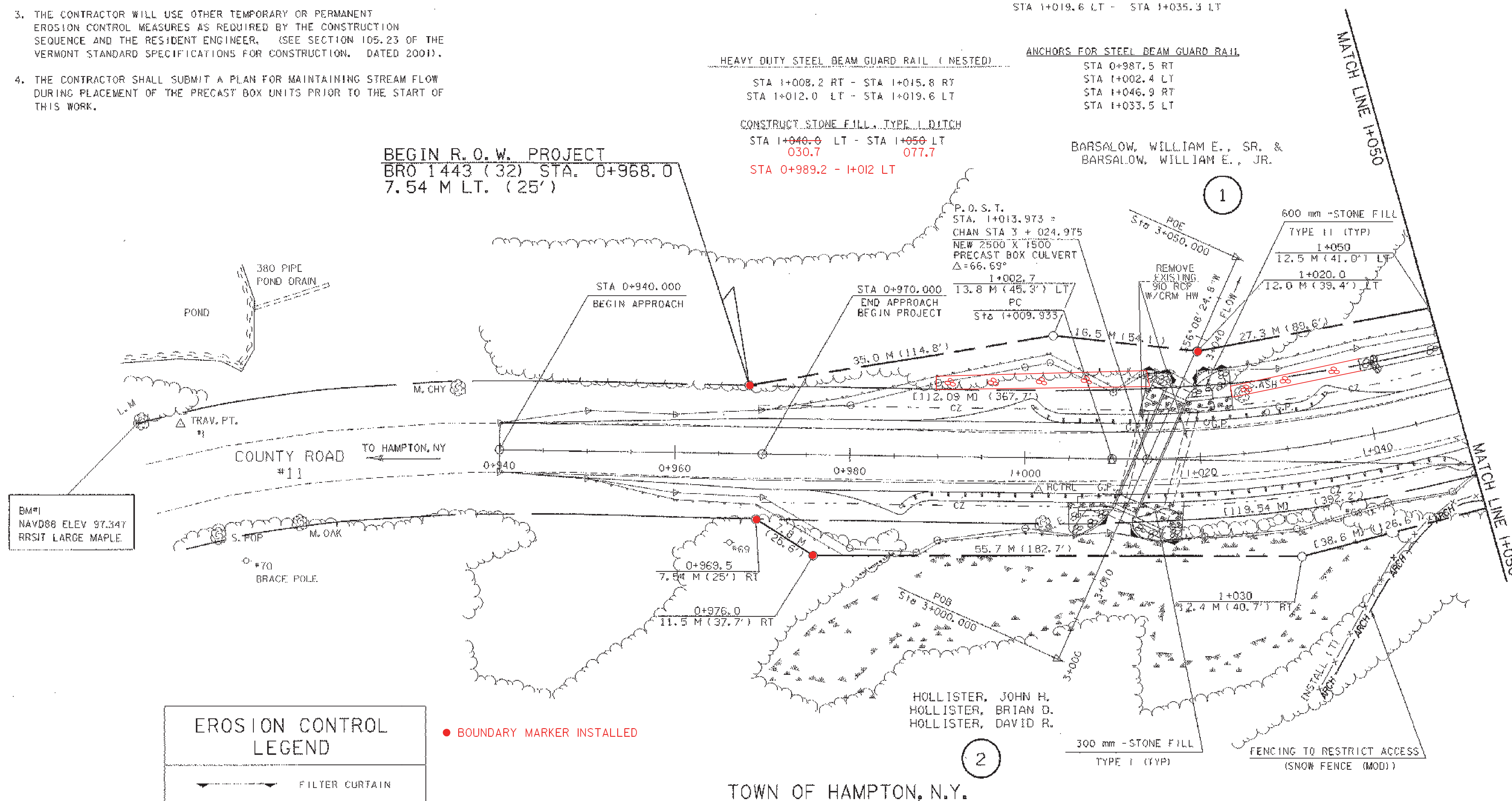
CONSTRUCT STONE FILL, TYPE I DITCH

STA 1+040.0 LT - STA 1+050.0 LT
030.7 077.7

STA 0+989.2 - 1+012 LT

BEGIN R.O.W. PROJECT
BR0 1443 (32) STA. 0+968.0
7.54 M LT. (25')

BARSALOW, WILLIAM E., SR. &
BARSALOW, WILLIAM E., JR.



EROSION CONTROL
LEGEND

- | | |
|---|------------------------|
|  | FILTER CURTAIN |
|  | SILT FENCE |
|  | ROCK CHECK DAM |
|  | STONE FILL,
TYPE I |
|  | STONE FILL,
TYPE II |

- BOUNDARY MARKER INSTALLED

TOWN OF HAMPTON, N.Y.

HOLLISTER, JOHN H.
HOLLISTER, BRIAN D.
HOLLISTER, DAVID R.

300 mm - STONE #
TYPE 1 (YYP)

FENCING TO RESTRICT ACCESS
(SNOW FENCE (MOD))

0 10
SCALE 1:250

**FOR R.O.W.
USE ONLY**

SHEET NAME: RIGHT-OF-WAY PLAN SHEET #1	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVE
FILE NAME: s:\str1\93\j021\sj021bdr.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: C.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021row.f
R. O. W. SHEET 8 OF 9 SHEETS	SHEET 6 OF 53

REMOVAL OF EXISTING GUARD RAIL

STA 1+076 LT - STA 1+082 LT
STA 1+078 RT - STA 1+082 RT
STA 1+108 RT - STA 1+110 RT
STA 1+108 LT - STA 1+113 LT

HEAVY DUTY STEEL BEAM GUARD RAIL

STA 1+063.5 RT - STA 1+082.0 RT
STA 1+065.5 LT - STA 1+081.0 LT
STA 1+108.0 RT - STA 1+118.6 RT
STA 1+108.6 LT - STA 1+124.2 LT

BRIDGE RAILING - HEAVY DUTY STEEL BEAM

FASCIA MOUNTED W/ STEEL TUBING W/
HANDRAIL

STA 1+081.2 LT - STA 1+088.6 LT
STA 1+082.0 RT - STA 1+108 RT

ANCHORS FOR STEEL BEAM GUARD RAIL

STA 1+065.5 RT
STA 1+067.5 LT
STA 1+116.6 RT
STA 1+122.2 LT

DRILLING AND BLASTING OF SUBGRADE

STA 1+110 - STA 1+150

REMOVE FENCE

STA 1+120 RT - STA 1+160 RT
STA 1+119 RT - STA 1+125 RT

DRIVE GATE (ALUMINUM) (MOD)
STA 1+056 RT - STA 1+063 RT

REMOVE AND RESET FENCE

STA 1+115 LT - STA 1+160 LT
STA 1+139 LT - STA 1+156.5 LT
(ELECTRIC & BARBED WIRE FENCE)

CONSTRUCT DRIVES (GRAVEL)

STA 1+059 RT
STA 1+121 RT

CONSTRUCT STONE FILL, TYPE 3 DITCH

STA 1+050 LT - STA 1+070 LT 077.7
STA 1+127.5 LT - STA 1+160 LT
126.1

NEW BARBED WIRE FENCE (2 STRANDS)

STA 1+124.5 RT - STA 1+160 RT

SOLID ROCK EXCAVATION

STA 1+110 LT - STA 1+128 LT

S.CED

END R.O.W. PROJECT
BRO 1443 (32) STA. 1+1157.4
8.5 M LT. (27.9')

BM#3
NAVD88 ELEV 104.358
RRSIT IN LARGE OAK

CURVE DATA

$\Delta = 78.000^\circ$
 $R = 138.000$ m
 $T = 111.680$ m
 $L = 187.790$ m
 $E = 39.530$ m
BANK = 0.060

WETHERBY, RONALD

STA 1+165.000
END APPROACH

STA 1+135.000
END PROJECT
BEGIN APPROACH

REMOVE +
RESET

CONST. (T)

SLOPE (P)

RESET (T)

EXISTING WIRE FENCE

TH #6

STUMP

TH #6

TH #6

TH #6

TH #6

TH #6

TH #6

TH #6

TH #6

TH #6

TH #6

TH #6

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TH #6

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TH #6

TH #6

TH #6

TH #6

TH #6

TH #6

TH #6

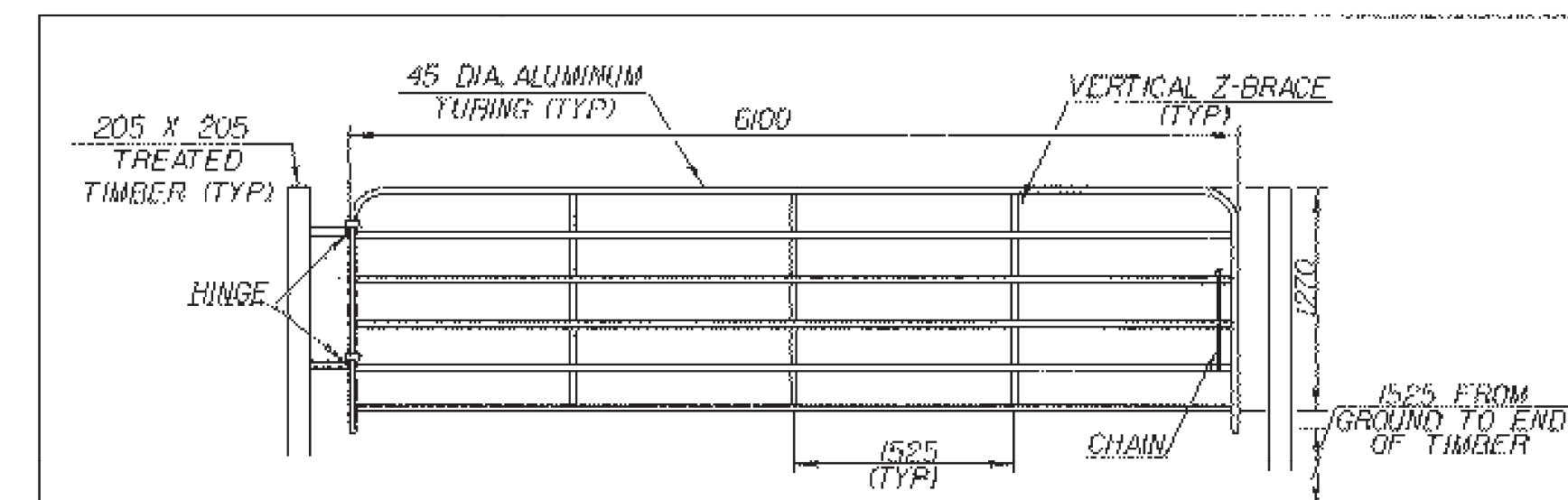
EXISTING BRIDGE DATA

914 ROLLED BEAM
203 CONCRETE DECK
STRUCTURE LENGTH - 25.6m
Q BRG TO Q BRG - 25m
CURB TO CURB WIDTH - 6.1m
OUT TO OUT WIDTH - 7.1m
BRIDGE RAIL - CABLE
CONCRETE ABUTMENTS

ALUMINUM DRIVE GATE
MTS

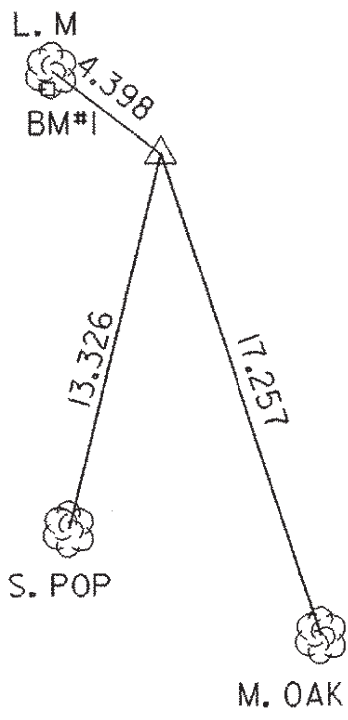
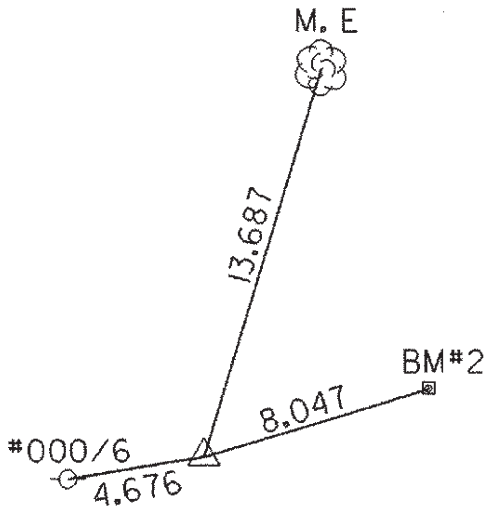
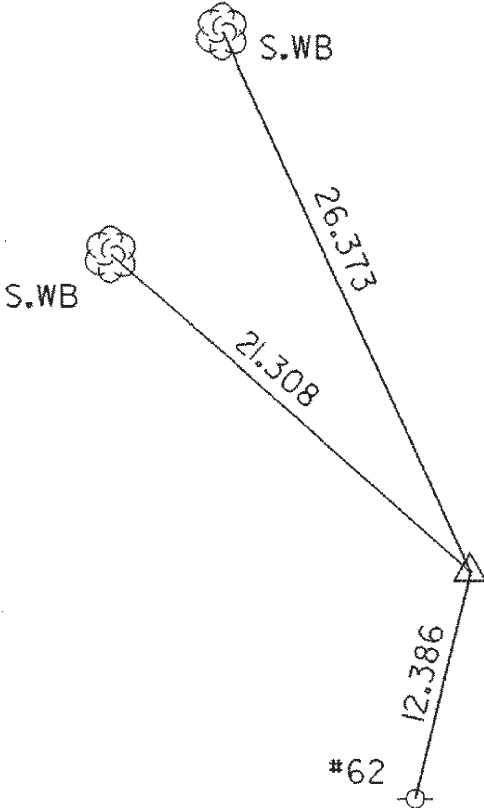
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SCALE 1:250

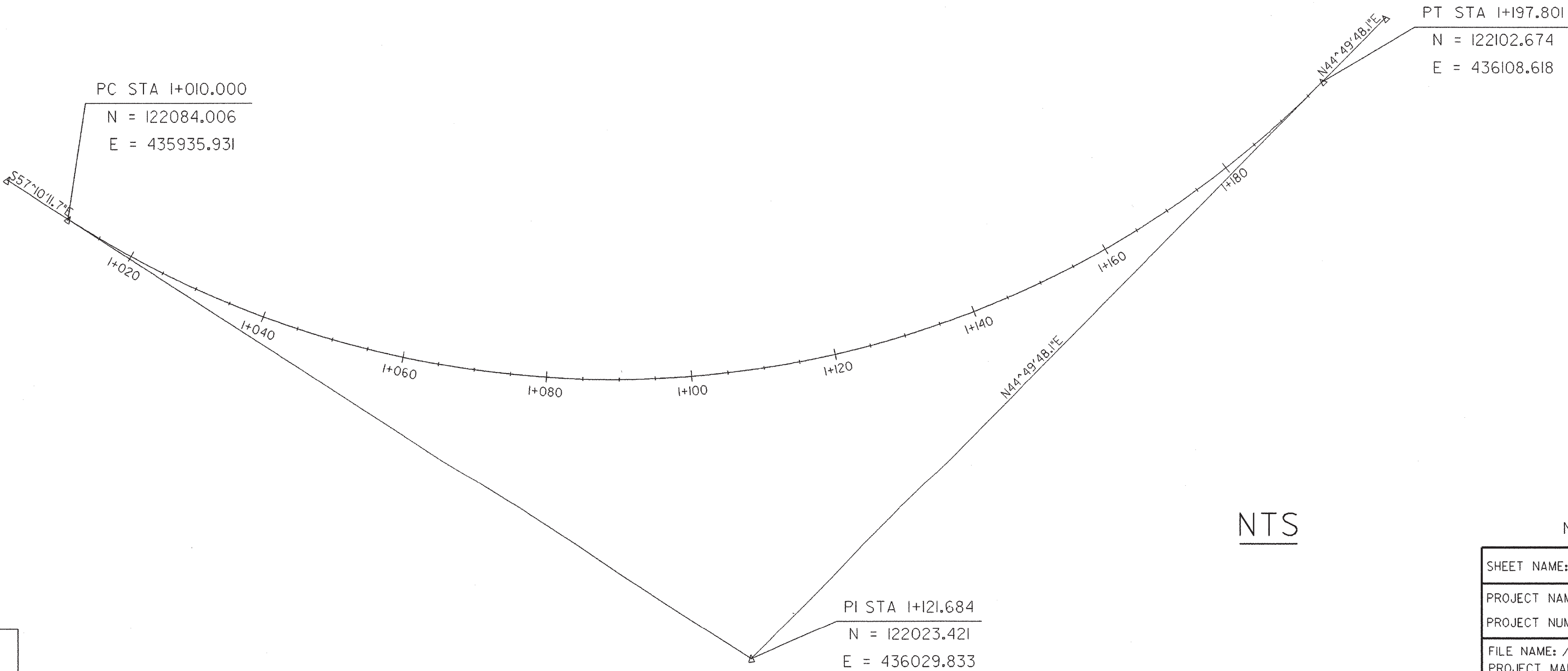
**FOR R.O.W.
USE ONLY**



SHEET NAME: LAYOUT SHEET 2	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /srt/93j021/sj021bdr.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021row2.1
R.O.W. SHEET 9 OF 9 SHEETS	SHEET 7 OF 53

TRAVERSE TIES

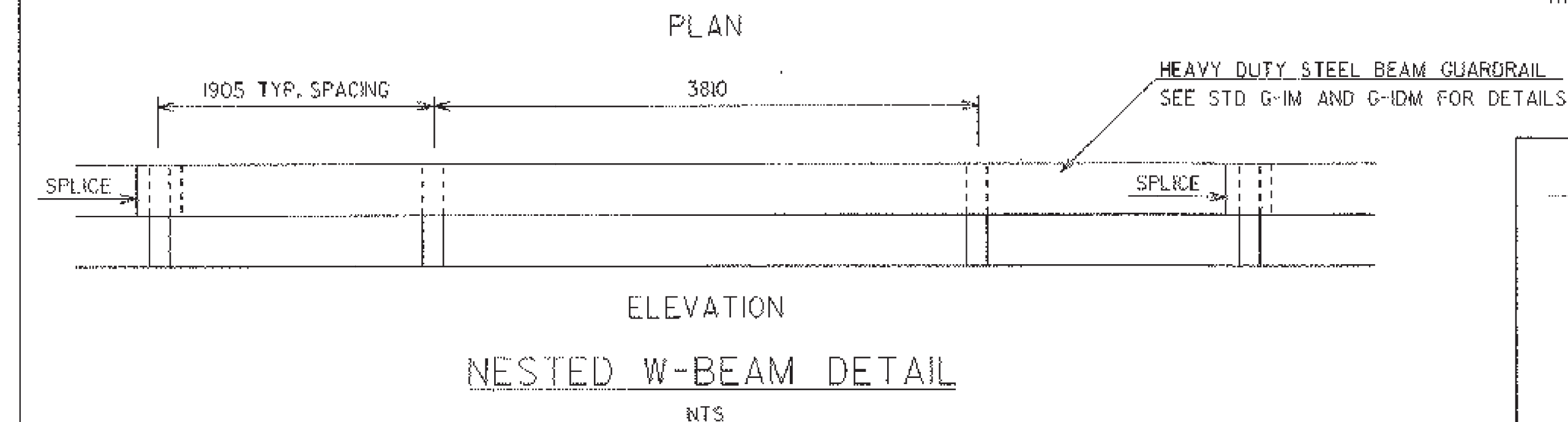
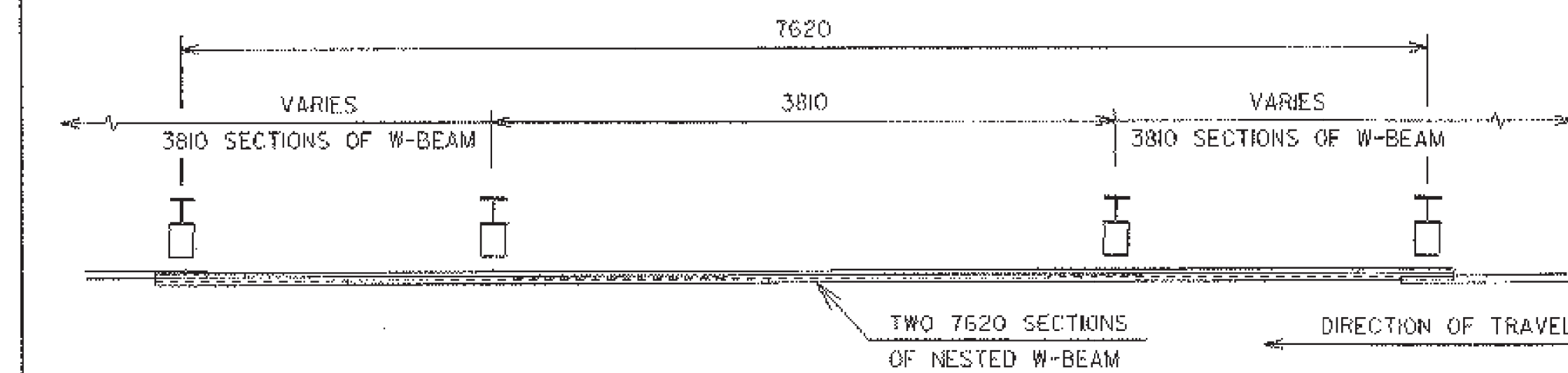
TRAV. 1	TRAV. 2	TRAV. 3
N = 122144.1220	N = 122055.2971	N = 122158.1630
E = 435847.5540	E = 435996.4666	E = 436143.2100
ELEV. = 96.5450	ELEV. = 107.9890	ELEV. = 92.8883
		



DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

NOTE: THE TIE DISTANCES ARE IN METERS

SHEET NAME: TIE SHEET	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /str1/93j021/sj021tie.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021tie.1
BRIDGE SHEET NUMBER:	SHEET 8 OF 53



NESTED W-BEAM NOTES

1. SEE STANDARD G-1M FOR HEAVY DUTY STEEL BEAM GUARDRAIL DETAILS.
2. THIS WORK SHALL BE PAID UNDER ITEM 621.21 HEAVY DUTY STEEL BEAM GUARDRAIL AT A PAY FACTOR OF 1.0.
3. THIS DETAIL TO BE USED AS INDICATED ON THIS SHEET OR AS DIRECTED BY THE RESIDENT ENGINEER.

HEAVY DUTY STEEL BEAM GUARD RAIL (NESTED)

STA 1+008.2 RT - STA 1+015.8 RT
STA 1+012.0 LT - STA 1+019.6 LT

CONSTRUCT STONE FILL TYPE I DITCH

STA 1+046.0 LT - STA 1+050 LT
STA 0+989.2 - 1+012 LT

REMOVAL OF EXISTING GUIDE POSTS

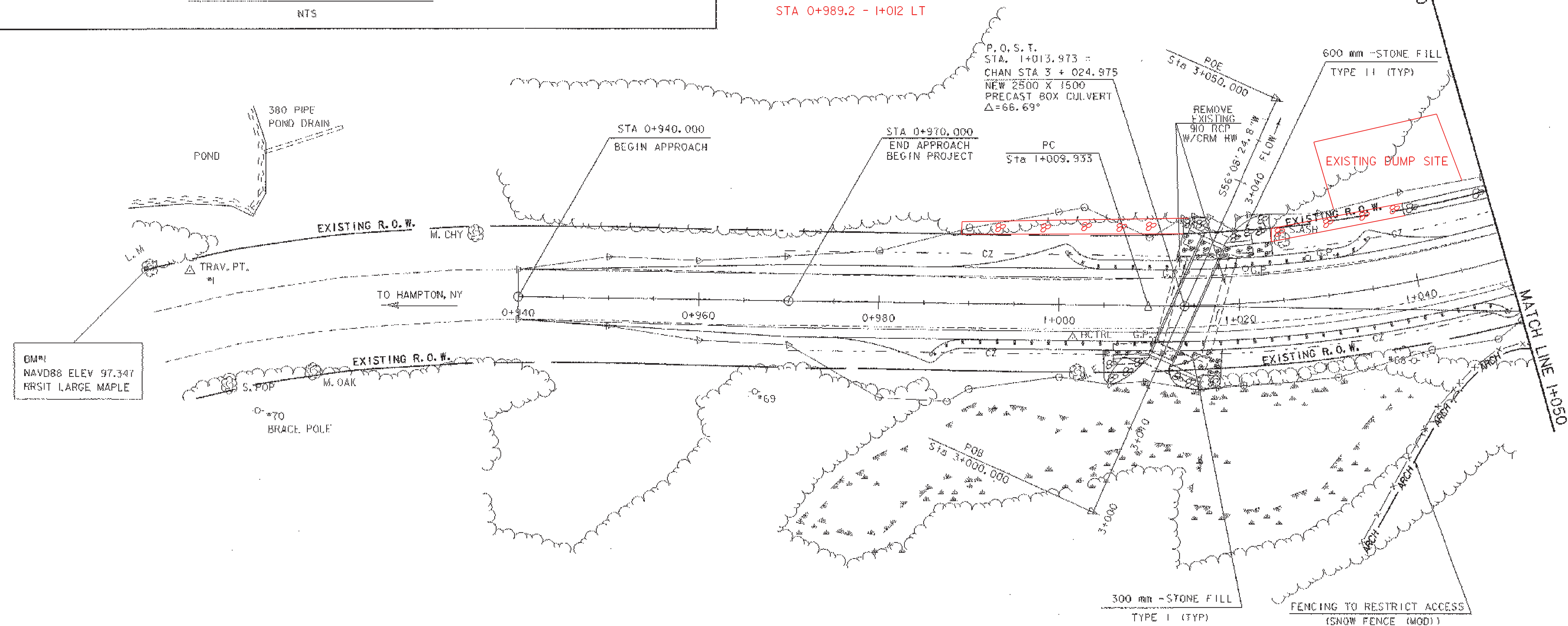
STA 1+010.6 RT
STA 1+013.9 LT
STA 1+020.7 LT
STA 1+027.9 LT

HEAVY DUTY STEEL BEAM GUARD RAIL

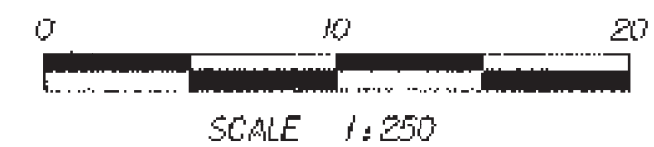
STA 0+986.0 RT - STA 1+008.2 RT
STA 1+015.8 RT - STA 1+048.8 RT
STA 1+000.9 LT - STA 1+012.0 LT
STA 1+019.6 LT - STA 1+035.3 LT

ANCHORS FOR STEEL BEAM GUARD RAIL

STA 0+987.5 RT
STA 1+002.4 LT
STA 1+046.9 RT
STA 1+033.5 LT



TOWN OF HAMPTON, N.Y.



SHEET NAME: LAYOUT SHEET 1	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /stru/93j02/sj02lbdn.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj02lbdn
BRIDGE SHEET NUMBER:	SHEET 9 OF 53

REMOVAL OF EXISTING GUARD RAIL

STA 1+076 LT - STA 1+082 LT
STA 1+078 RT - STA 1+082 RT
STA 1+108 RT - STA 1+110 RT
STA 1+108 LT - STA 1+113 LT

HEAVY DUTY STEEL BEAM GUARD RAIL

STA 1+063.5 RT - STA 1+082.0 RT
STA 1+065.5 LT - STA 1+081.0 LT
STA 1+108.0 RT - STA 1+118.6 RT
STA 1+108.6 LT - STA 1+124.2 LT

BRIDGE RAILING - HEAVY DUTY STEEL BEAM

FASCLA MOUNTED W/ STEEL TUBING W/
HANDRAIL

STA 1+081.2 LT - STA 1+108.6 LT
STA 1+082.0 RT - STA 1+108 RT

ANCHORS FOR STEEL BEAM GUARD RAIL

STA 1+065.5 RT
STA 1+067.5 LT
STA 1+116.6 RT
STA 1+122.2 LT

DRILLING AND BLASTING OF SUBGRADE

STA 1+110 - STA 1+150

REMOVE FENCE

STA 1+120 RT - STA 1+160 RT

DRIVE GATE (ALUMINUM) (MOD)

STA 1+119 RT - STA 1+125 RT
STA 1+056 RT - STA 1+063 RT

REMOVE AND RESET FENCE

STA 1+115 LT - STA 1+160 LT
STA 1+139 LT - STA 1+156.5 LT
(ELECTRIC & BARBED WIRE FENCE)

CONSTRUCT DRIVES (GRAVEL)

STA 1+059 RT
STA 1+121 RT

CONSTRUCT STONE FILL, TYPE 1 DITCH

STA 1+050 LT - STA 1+070 LT 077.7
STA 1+127.5 LT - STA 1+160 LT 126.1

NEW BARBED WIRE FENCE (2 STRANDS)

STA 1+124.5 RT - STA 1+160 RT

SOLID ROCK EXCAVATION

STA 1+110 LT - STA 1+128 LT

CURVE DATA

$\Delta = 78.000^\circ$
 $R = 138.000 \text{ m}$
 $T = 111.680 \text{ m}$
 $L = 187.790 \text{ m}$
 $E = 39.530 \text{ m}$
 $BANK = 0.060$

BM
94.906

STA 1+105.000
STA 1+130.000
 $\Delta = 82.5^\circ$

STA 1+165.000
END APPROACH

STA 1+135.000
END PROJECT
BEGIN APPROACH

STA 1+107.663
END BRIDGE
F.G. 94.561

PAVEMENT MARKING
CENTERLINE
(SEE CROSS SECTIONS)

FENCING TO RESTRICT ACCESS
(SNOW FENCE (MOD))

EXISTING BRIDGE DATA

914 ROLLED BEAM
203 CONCRETE DECK
STRUCTURE LENGTH - 25.6m
C BRG TO C BRG - 25m
CURB TO CURB WIDTH - 6.1m
OUT TO OUT WIDTH - 7.1m
BRIDGE RAIL - CABLE
CONCRETE ABUTMENTS

N
VT. STATE PLANE GRID

Sta 1+209.997

Sta 1+197.801

S. POP
SIGN
INTERSECTION

1+210

SIGN
SPEED
LIMIT 30

BM#3
NAVD88 ELEV 104.350
RASH IN LARGE OAK

MATCH LINE 1+050

STA. 1+082.208
BEGIN BRIDGE
F.G. 93.317

NO DUMPING
SIGN

HCTRL

M. WILLOW

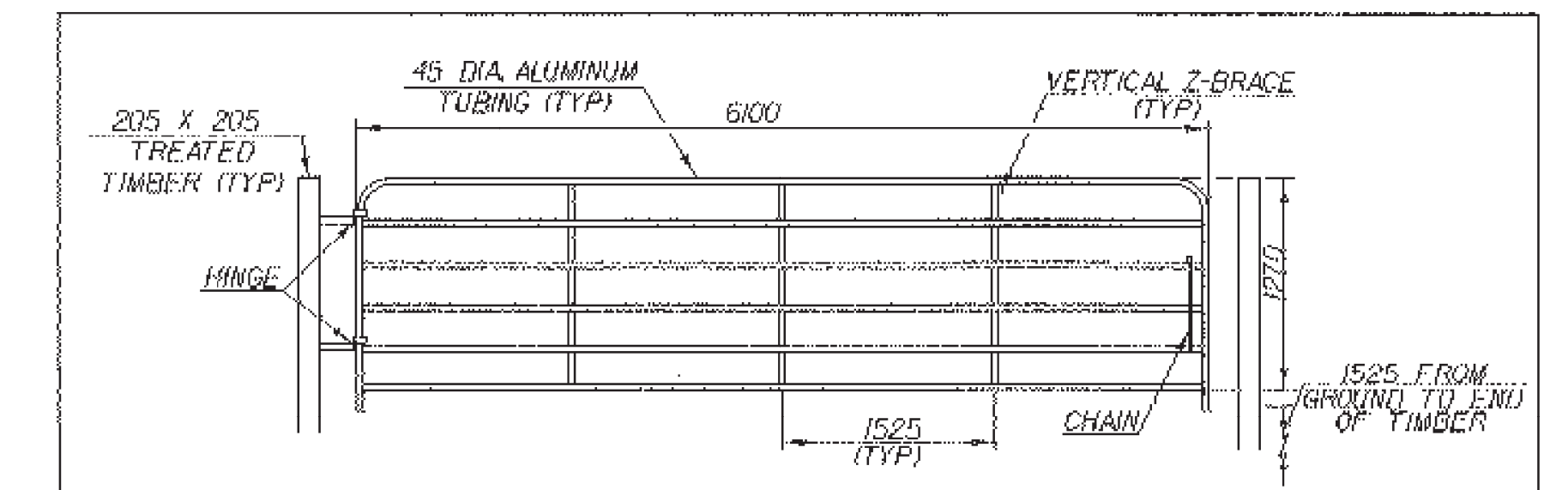
EXISTING R.O.W.

EXISTING R.O.W.

BM#2
NAVD88 ELEV 93.487
CH. SQUARE SOUTH
END ABUTMENT

NEW YORK
VERMONT

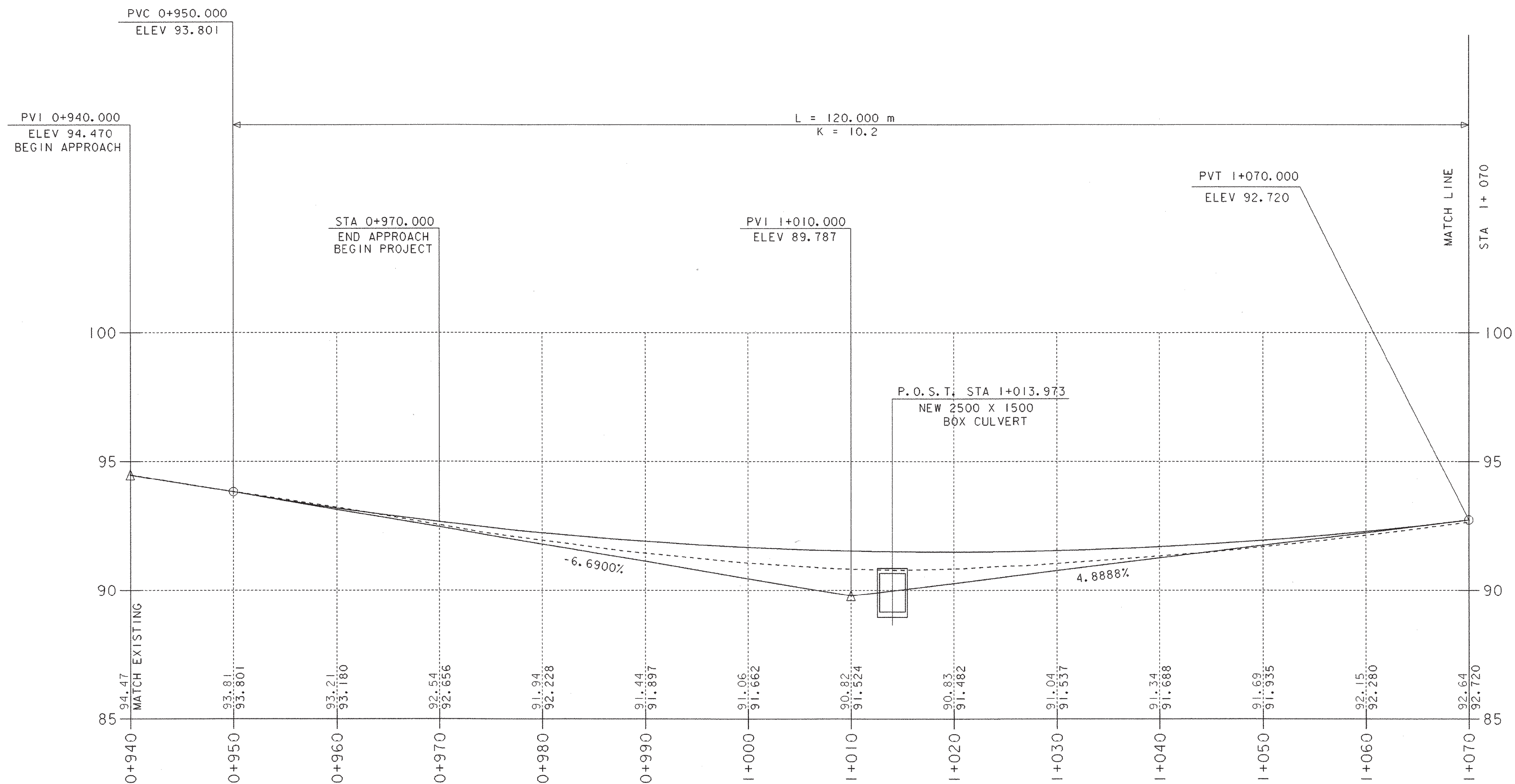
PI
Sta 1+121.683



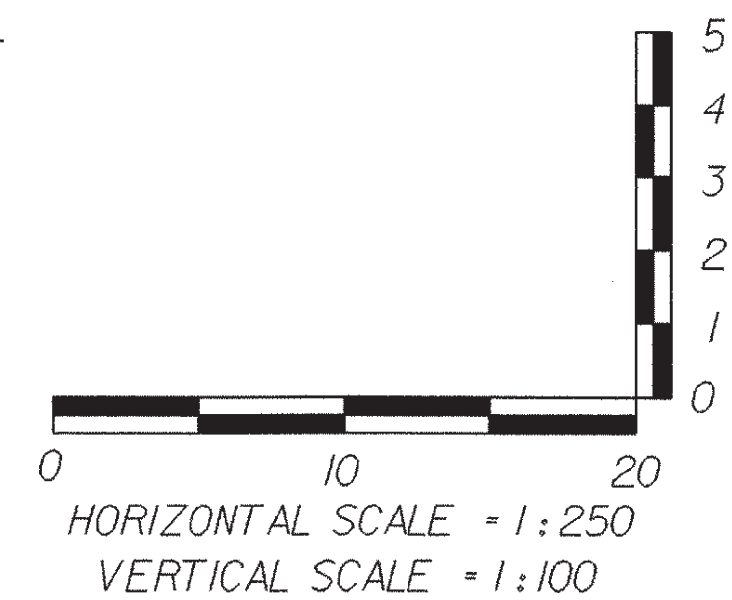
ALUMINUM DRIVE GATE
NTS

0 10 20
SCALE 1:250

SHEET NAME: LAYOUT SHEET 2	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /s1r1/93j021/sj021bdr.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021a2.1
BRIDGE SHEET NUMBER:	SHEET 10 OF 53



Profile



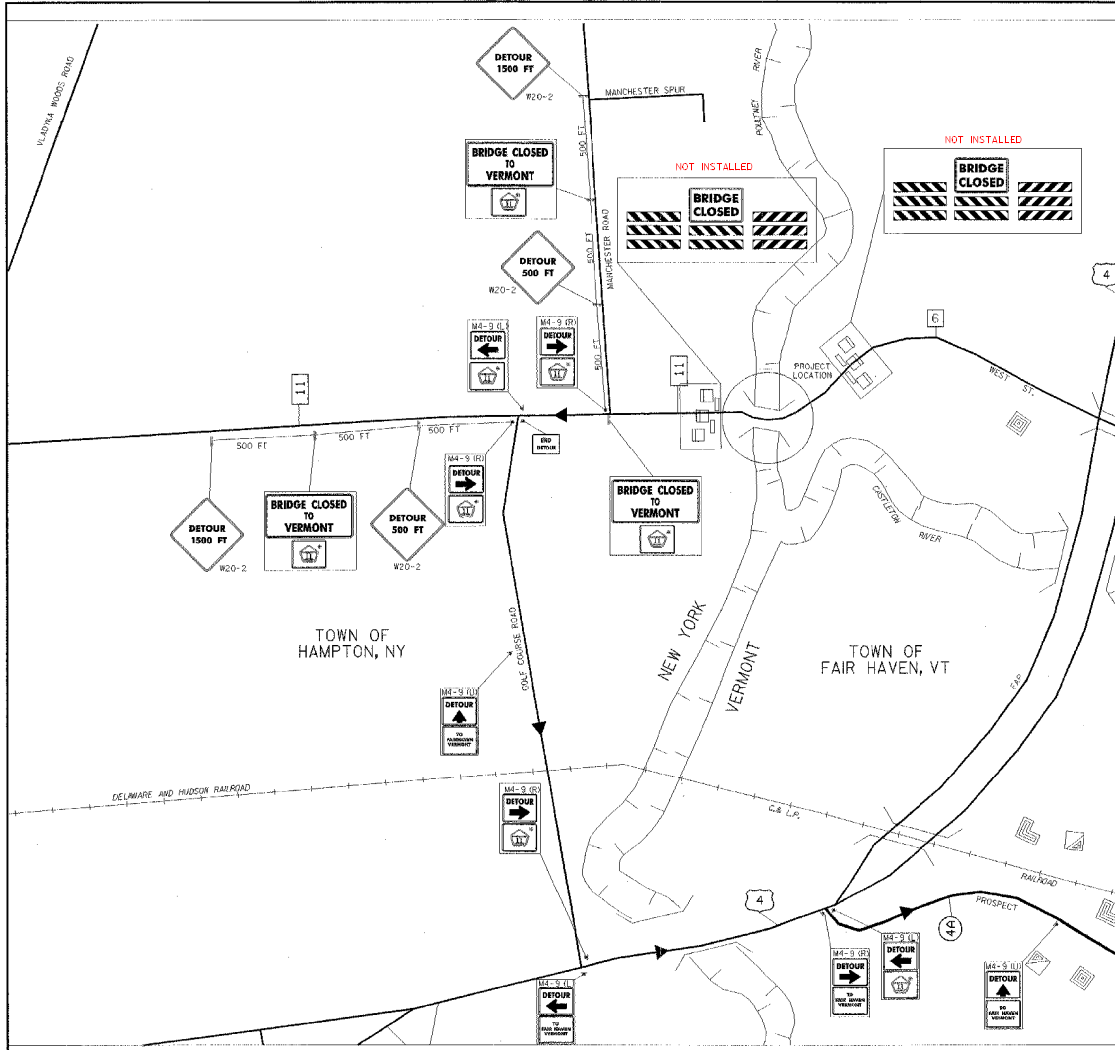
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE ORIGINAL GROUND ELEVATIONS ALONG THE PROPOSED ALIGNMENT. THE GRADES SHOWN TO THE NEAREST THOUSANDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

SHEET NAME: MAINLINE PROFILE	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /str1/93j021/sj021xs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021pl1
BRIDGE SHEET NUMBER:	SHEET 11 OF 53

HORIZONTAL SCALE = 1:250
VERTICAL SCALE = 1:100

THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE ORIGINAL GROUND ELEVATIONS ALONG THE PROPOSED ALIGNMENT. THE GRADES SHOWN TO THE NEAREST THOUSANDTH ARE THE PROPOSED GRADES FOR THE NEW ALIGNMENT.

SHEET NAME: MAINLINE PROFILE	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
OVER: POULTNEY RIVER	
FILE NAME: /s/r/93/02/sj/02ks.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj/02/p.2.1
BRIDGE SHEET NUMBER:	SHEET 12 OF 53



REQUIRED VT AOT STANDARDS

E-100
E-100AM
E-102
E-106
E-107AM
E-107M

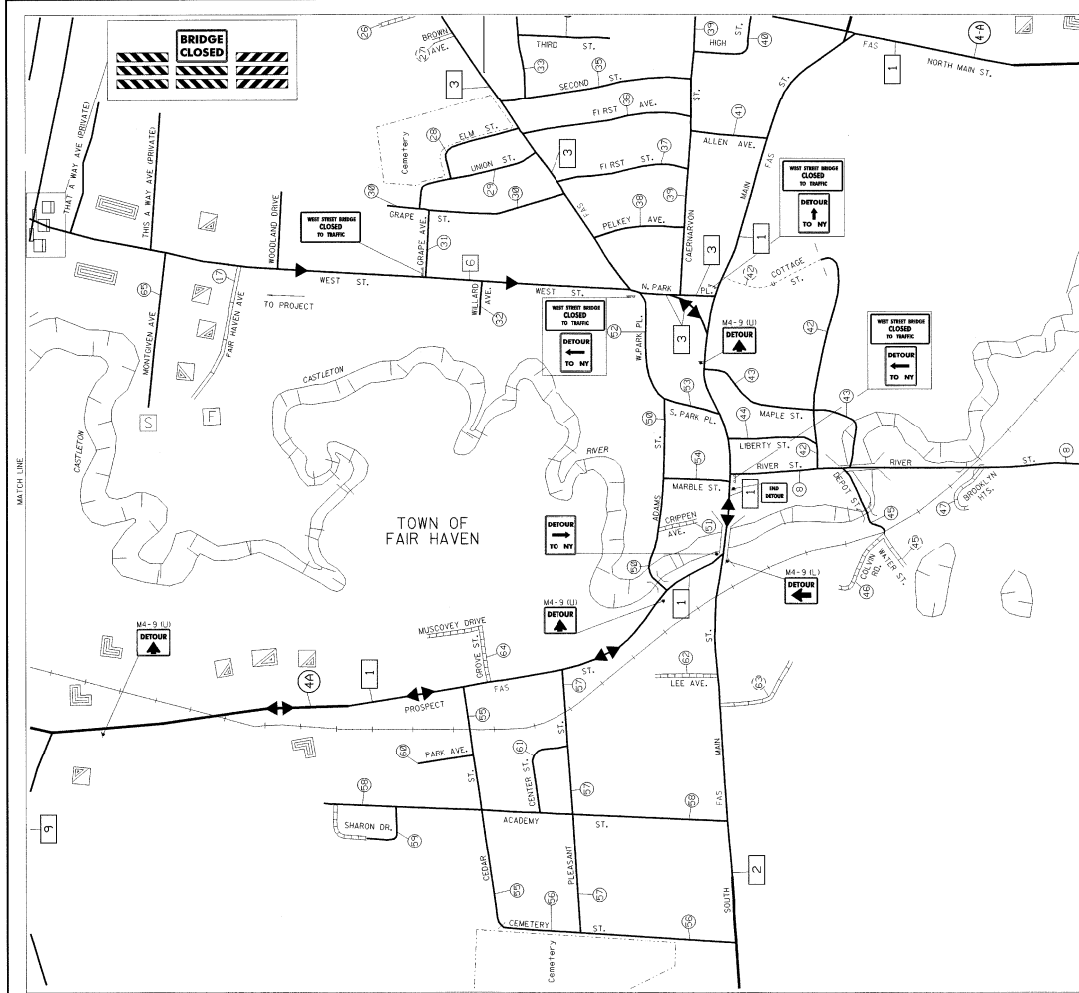
NOTES:

CONSTRUCTION APPROACH SIGNING AS SHOWN ON AOT STANDARD DRAWINGS E-100M WILL BE REQUIRED AS WELL AS ALL THE OTHER SIGNS.

* WASHINGTON COUNTY SIGNS TO BE PROVIDED TO THE CONTRACTOR BY WASHINGTON COUNTY, NY. CONTACT WILLY GRIMMKE, SUPERINTENDENT, WASHINGTON COUNTY @ (518) 746-2440

PLEASE NOTE: THE DETOUR HAS ENGLISH UNITS EXCEPT FOR SIGN DIMENSIONS

SHEET NAME:	TRAFFIC DETOUR SHEET #1
PROJECT NAME:	FAIR HAVEN-HAMPTON HIGHWAY PROJ. TR 15
PROJECT NUMBER:	BRO 1443(32)
DESIGNED BY:	C. BEUNEN
DRAWN BY:	J. GILMORE
BRIDGE SHEET NUMBER:	15 OF 53
OVER:	POLITNEY RIVER
FILE NAME:	r8111/833021/830210a.dgn
PLOT DATE:	28-JAN-2003



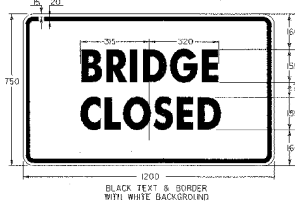
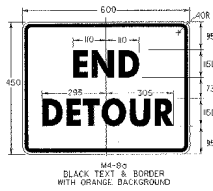
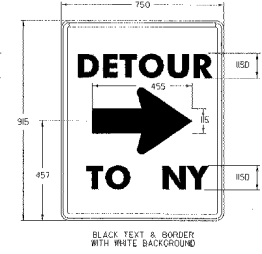
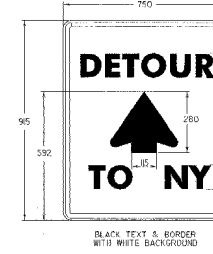
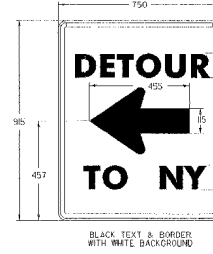
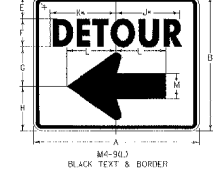
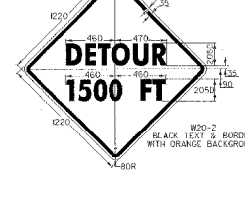
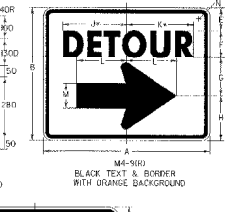
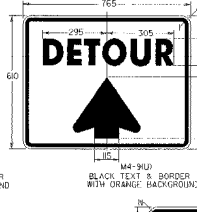
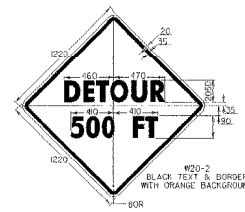
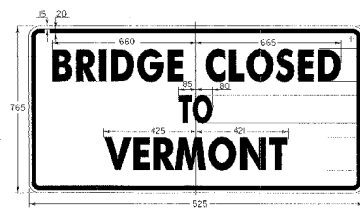
SHEET NAME: TRAFFIC DETOUR SHEET #2	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
OVER: POULNEY RIVER	
FILE NAME: z:\11\703\02\1027\cas.dgn	PLT DATE: 28-JAN-2003
PROJECT MANAGER: C.S. ROGERS	DRAWN BY: J. GILMORE
DESIGNED BY: C. MEUNER	PARM NAME: a\02mp2.j
BRIDGE SHEET NUMBER:	SHEET 14 OF 53

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

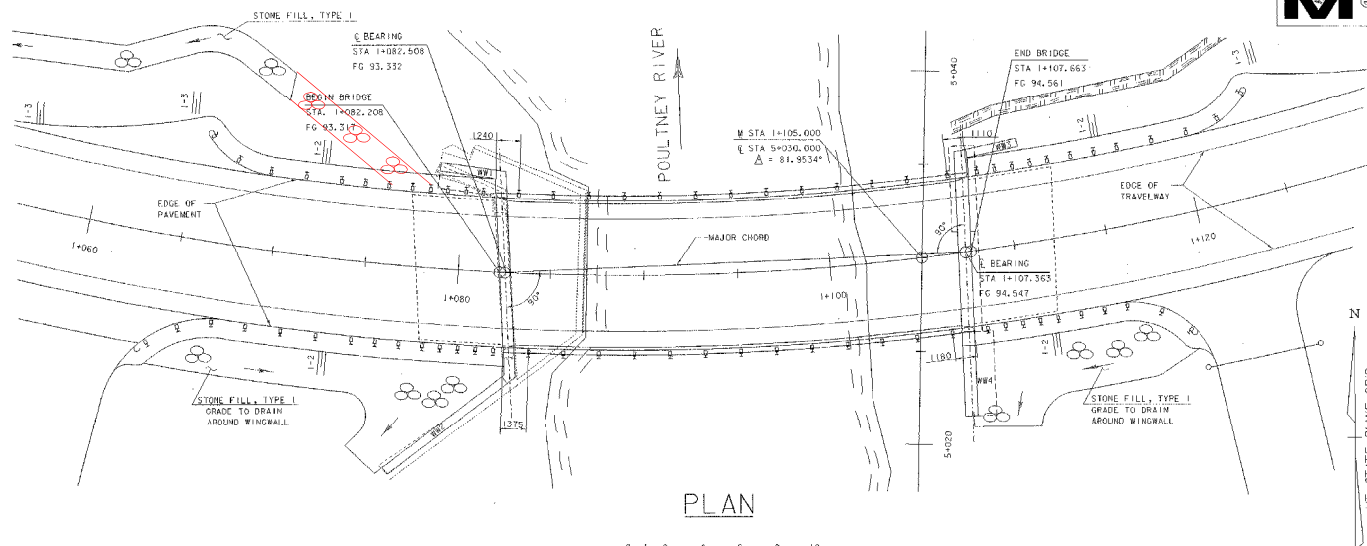


QUANTITY	SIGN LEGEND	SIGN DIMENSIONS WIDTH (mm)	HEIGHT (mm)	FLANGED CHANNEL h/g/m	TOTAL AREA SIGNS (m ²)
2	W20-2	1220	1220	2 POSTS	2.377
2	W20-2	1220	1220	2 POSTS	2.977
4	M4-9 (R)	765	610	1 POST	1.867
4	M4-9 (L)	765	610	1 POST	1.867
5	M4-9 (U)	765	610	1 POST	2.333
3	BRIDGE CLOSED TO VERMONT	1525	765	2 POSTS	3.500
4	W20-2	745	610	1 POST	1.018
2	W20-2	500	450	1 POST	0.540
4	W20-2	1525	765	2 POSTS	4.667
NOT 2 INSTALLED	BRIDGE CLOSED	1525	765	1 POST	2.333
1	DETOUR TO NY	750	915	1 POST	0.686
2	DETOUR TO NY	750	915	1 POST	1.373
1	DETOUR TO NY	750	915	1 POST	0.686

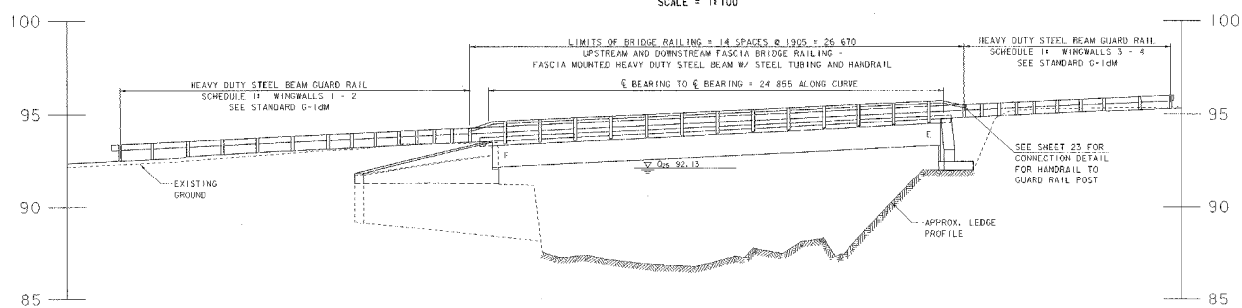


SIGN	A	B	C	D	E	F	G	H	I	J	K	L	M	N
STD.	765	610	10	5	100	100	175	205	295	305	230	15	40	
SPECIAL	1220	915	15	25	155	205	295	305	495	665	345	180	60	
SPECIAL	1520	1220	20	35	205	250	315	410	585	610	460	230	80	

SHEET NAME:	TRAFFIC DETOUR SIGNING SHEET
PROJECT NAME:	FAIR HAVEN-HAMPTON
PROJECT NUMBER:	BR0 1443(32)
FILE NAME:	SPR/93/02/03/021.cdwg
PROJECT MANAGER:	G.S. ROGERS
DESIGNED BY:	C. NEUMER
BRIDGE SHEET NUMBER:	
PLANT NAME:	9302103.D
PLANT DATE:	28-JAN-2003
DRAWN BY:	J. CALMORE
SHEET	15 OF 53



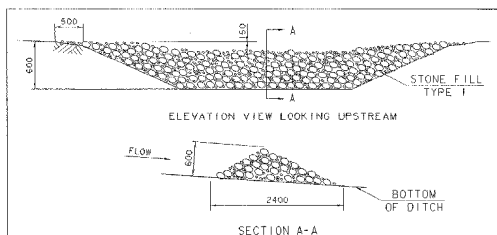
PLAN



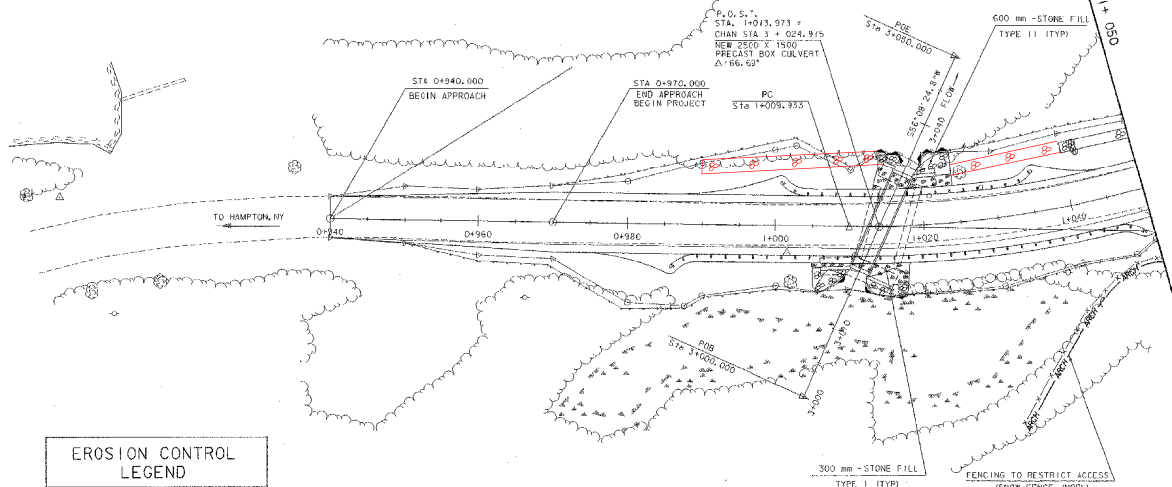
ELEVATION

SHEET NAME:	PLAN AND ELEVATION SHEET
PROJECT NAME:	FAIR HAVEN-HAMPTON HIGHWAY NO. 14
PROJECT NUMBER:	BRO 1443(32)
FILE NAME:	7/21/03/02/030200000
PROJECT MANAGER:	G.S. ROGERS
DESIGNED BY:	C. WELSH
BRIDGE SHEET NUMBER:	
BRIDGE NO.:	6
OVERS:	POULTNEY RIVER
PLOT DATE:	28 JAN 2003
DRAWN BY:	STR
PARM NAME:	030200000
SHEET	15 OF 53

- NOTES:
1. USE THIS SHEET IN CONJUNCTION WITH STANDARDS T1M AND T2M.
 2. AN ALTERNATE EROSION CONTROL PLAN MAY BE SUBMITTED BY THE CONTRACTOR. SUBJECT TO THE APPROVAL OF THE RESIDENT ENGINEER.
 3. THE CONTRACTOR WILL USE OTHER TEMPORARY OR PERMANENT EROSION CONTROL MEASURES AS REQUIRED BY THE CONSTRUCTION SEQUENCE AND THE RESIDENT ENGINEER. (SEE SECTION 105.23 OF THE VERMONT STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2001).
 4. THE CONTRACTOR SHALL SUBMIT A PLAN FOR MAINTAINING STREAM FLOW DURING PLACEMENT OF THE PRECAST BOX UNITS PRIOR TO THE START OF THIS WORK.

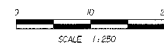


ROCK CHECK DAM
NOT TO SCALE



EROSION CONTROL LEGEND	
	FILTER CURTAIN
	SILT FENCE
	ROCK CHECK DAM
	STONE FILL, TYPE I
	STONE FILL, TYPE II

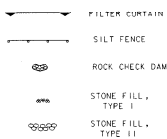
TOWN OF HAMPTON, N.Y.



SHEET NAME: EROSION CONTROL SHEET 1	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO. 3 TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO. 6
	OVER: POULTNEY RIVER
FILE NAME: /srr/9302/s102b-dr.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: C.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MELNER	IPARM NAME: s102bcl
BRIDGE SHEET NUMBER:	SHEET 17 OF 53



EROSION CONTROL LEGEND



NOTES:

1. USE THIS SHEET IN CONJUNCTION WITH STANDARDS TIM AND T2W.
2. AN ALTERNATE EROSION CONTROL PLAN MAY BE SUBMITTED BY THE CONTRACTOR, SUBJECT TO THE APPROVAL OF THE RESIDENT ENGINEER.
3. THE CONTRACTOR WILL USE OTHER TEMPORARY OR PERMANENT EROSION CONTROL MEASURES AS REQUIRED BY THE CONSTRUCTION SEQUENCE AND THE RESIDENT ENGINEER. (SEE SECTION 105.23 OF THE VERMONT STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2001).

SEEDING FORMULA RURAL AREAS

% MASS	kg/ha	NAME	PUR %	GERM %
37.5	26.0	CREEPING RED FESCUE	98	85
37.5	26.0	TALL FESCUE	95	90
5.0	4.0	RED TOP	95	90
15.0	10.0	BIRDSEED TREFOIL	98	85
5.0	4.0	ANNUAL RYE GRASS	95	85
100.0	70.0			

GENERAL NOTES

SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY MASS AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 560 kg/ha. HYDRO SEEDERS MAY USE 19-19-19 FORMULA.

AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 4500 kg/ha, OR AS DIRECTED BY THE ENGINEER.

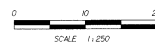
HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 4500 kg/ha, OR AS DIRECTED BY THE ENGINEER.

TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

SLOPE ROUNDING: ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B-5M.

TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.07 L/m² BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE ENGINEER.

SHEET NAME:	EROSION CONTROL SHEET 2
PROJECT NAME:	FAIR HAVEN-HAMPTON
PROJECT NUMBER:	BRO 1443(32)
FILE NAME:	2/21/19/32076/0226-dr.dgn
PROJECT MANAGER:	C. MEUNIER
DESIGNED BY:	C. MEUNIER
BRIDGE SHEET NUMBER:	
HIGHWAY NO.:	TH 6
BRIDGE NO.:	6
OVER:	POULTNEY RIVER
PLOT DATE:	29-JAN-2003
DRAWN BY:	STR
FARM NAME:	8J02Wc2.1
SHEET	18 OF 53



STATE OF VERMONT
AGENCY OF TRANSPORTATION

GENERAL NOTES

Metric

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2001, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SIXTEENTH EDITION, AND ITS LATEST REVISIONS.

2. BRIDGE IS DESIGNED FOR MS 22.5 LIVE LOAD WITH NO ALLOWANCE FOR FUTURE INCREASE.

3. a) IN-STREAM CONSTRUCTION SHALL BE RESTRICTED TO JUNE 1 TO OCTOBER 1, UNLESS THE CONTRACTOR OBTAINS WAIVER PERMISSION FROM THE AGENCY OF NATURAL RESOURCES AND THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION TO DO WORK OUTSIDE OF THAT TIME FRAME.

b) THE CONTRACTOR SHALL REVIEW AND UNDERSTAND ALL APPLICABLE ENVIRONMENTAL PERMITS AND INSURE THAT ALL PRECAUTIONS ARE MET.

4. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT EROSION OR POLLUTION, ESPECIALLY THE DISCHARGE OF NEW CONCRETE, INTO ANY BRIDGE, STREAM OR RIVER.

5. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 20 DEGREES C UNLESS OTHERWISE NOTED.

6. THE HEIGHT OF FILL BEHIND ABUTMENTS WILL BE LIMITED TO THE BRIDGE SEAT ELEVATION UNTIL THE DECK HAS BEEN POURED AND THE CURBING PERIOD IS REACHED.

7. THE EXISTING STRUCTURAL STEEL ON THIS PROJECT WAS PAINTED WITH A MATERIAL WHICH MAY CONTAIN LEAD. THE REMOVED STRUCTURAL STEEL IS THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL UNDERPIN AND HOLD THE STATE, ITS OFFICERS, AND EMPLOYEES HARMLESS CONCERNING THE CONTRACTOR'S USE OR DISPOSITION OF THE STRUCTURAL STEEL.

8. THE EXISTING SUBSTRUCTURES INCLUDING THE BARGE, DECK AND WALLING SHALL BE REMOVED DOWN TO THE EXISTING BRIDGE SEATS. THIS WORK SHALL BE PAID FOR UNDER THE ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE".

9. PAYMENT FOR REMOVAL OF EXISTING RETAINMENT FENCING ON THE BRIDGE SHALL BE MADE UNDER THE ITEM 529.50, "REMOVAL OF BRIDGE FENCING." THE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY AT AN OFFSITE LOCATION.

10. PAYMENT FOR REMOVAL OF PORTIONS OF THE EXISTING ABUTMENT NO. 1 AND WINGWALLS 1 & 2 TO THE ELEVATIONS INDICATED ON THE PLANS SHALL BE PAID FOR UNDER THE ITEM 329.25, "REMOVAL OF CONCRETE OR MASONRY".

11. THE EXISTING ABUTMENT NO. 2 AND WINGWALLS 3 & 4 SHALL BE REMOVED IN ITS ENTIRETY. THIS WORK WILL BE PAID FOR UNDER THE ITEM 329.25, "RESTRUCTURE RECONSTRUCTION".

12. TEMPORARY FENCING SHALL BE PLACED BETWEEN STATIONS 1+03.00 - 1+04.80 AS WELL AS BETWEEN STATIONS 1+11.87 - 1+14.87 TO RESTRICT ACCESS TO TWO AREAS THAT ARE NEUTRALLY LOGICALLY SENSITIVE. THIS WORK WILL BE PAID FOR AS ITEM 620.70, "WIND FENCE" (WFO).

13. PAYMENT FOR REMOVAL AND RESETTING OF FENCING BETWEEN STATIONS 1+15.17 - 1+15.10 AND THE ELECTRIC FENCE BETWEEN STA 1 + 139.17 - STA 1 + 146.5. IT SHALL BE PAID UNDER THE ITEM 620.50, "REMOVING AND RESETTING FENCE" (WFO).

14. PAYMENT FOR REMOVAL OF A GATE BETWEEN STATIONS 1+04.80 - 1+06.87 CONSISTING OF TWO POSTS AND A GATE SHALL BE INCIDENTAL TO ITEM 620.16, "GATE FOR CHAIN LINK-FENCE, 1.60" (WFO).

15. NEW GATES SHALL BE INSTALLED BETWEEN STA 1+04.80 - STA 1+04.87 AT AND STA 1+13.87 - STA 1+13.87. THE DETAILS FOR THESE GATES ARE ON SHEET 10. THE WORK TO CONSTRUCT THESE GATES WILL BE PAID FOR UNDER THE ITEM 620.16 "GATE FOR CHAIN LINK-FENCE, 1.60(WFO)". THE NEW GATE WILL BE ATTACHED TO 205 X 205 TREATED TIMBER POSTS LOCATED TO THE LEFT AND RIGHT OF THE GATE. THE POSTS AND THE WORK INVOLVED IN ATTACHING THE GATE WILL BE INCIDENTAL TO THE ITEM 620.16 "GATE FOR CHAIN LINK-FENCE, 1.60(WFO)".

16. THE EXISTING SIGN BOP LOCATED AT APPROXIMATELY STATIONS 1+012 AND 1+018 AND THE CONCRETE RUBBLE MASONRY WEARWALL SHALL BE REMOVED IN ITS ENTIRETY UNDER THE ITEM "STRUCTURE RECONSTRUCTION".

18. ALL REINFORCING STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS OF THE CONCRETE REINFORCING STEEL PARTTITVE (CRS2).

19. REINFORCING PLACEMENT TOLERANCES SHALL BE: SPACING + - 5 mm CLEARANCE + - 5 mm

20. MINIMUM COVER FOR REINFORCING STEEL SHALL BE AS DETAILED IN THE PROJECT PLANS.

21. SURFACES OF BRIDGE SEATS UNDER BEARING DEVICES SHALL BE LEVEL. OTHER BRIDGE SEAT AREAS SHALL BE SLOPED 1:40. APPROVED SEATS SHALL BE SLOPED FULL WIDTH TOWARD THE CENTER LINE. THE ENTIRE BRIDGE SEAT SURFACE SHALL BE SMOOTHED WITH EITHER A WOOD OR IRONSTONE FLAT FINISH.

22. DECK DECK IS TO BE DOWN 10 ONE FOUR WITHIN A MAXIMUM OF EIGHT HOURS. IF CIRCUMSTANCES BEYOND THE CONTRACTOR'S CONTROL PREVENT THIS FROM BEING ACCOMPLISHED, A MINIMUM DELAY OF SIXTY-SIX (66) HOURS BETWEEN THE COMPLETION OF ONE DAY'S WORK AND THE BEGINNING OF ANY OTHER WORK WILL BE ADHERED TO. SEE SHEET 20 FOR DETAIL OF TRANSVERSE BRIDGE SLAB CONSTRUCTION JOINT.

23. WATER REPELLENT SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES EXCEPT THE UNDERSIDES OF THE DECK BETWEEN THE DECK BEAMS. THE EXISTING CONCRETE AT ABUTMENT NO. 1 THAT IS EXPOSED SHALL ALSO HAVE WATER REPELLENT APPLIED TO THE SURFACES.

24. NO CONCRETE IN THE ABUTMENTS OR WINGWALLS SHALL BE PLACED ABOVE THE BRIDGE SEAT ELEVATIONS UNTIL THE CURERS HAVE BEEN PROTECTED AND THE FINISHED GRADE OF THE DECK HAS BEEN DETERMINED.

25. AFTER THE SUPERSTRUCTURE HAS BEEN LOCATED, ELEVATIONS SHALL BE TAKEN ALONG THE TOP OF THE WINGWALLS/GIRDS, AS DIRECTED BY THE RESIDENT ENGINEER, FOR USE IN DETERMINING THE FINISHED GRADE.

26. ALL SUBSTRUCTURE CONCRETE AND THE APPROACH SLABS SHALL BE CONCRETE, HIGH PERFORMANCE CLASS 8, UNLESS OTHERWISE NOTED.

27. THE DECK AND CURBS SHALL BE CONCRETE, HIGH PERFORMANCE CLASS 8.

STRUCTURAL STEEL

41. ALL STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., TENTH EDITION.

42. ANY CONNECTIONS THAT ARE NOT DETAILED ON THE PLANS SHALL BE DETAILED BY THE FABRICATOR AND SUBMITTED TO THE STRUCTURES ENGINEER FOR APPROVAL.

43. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF VERMONT SPECIFICATION 506.10.

44. ALL MEMBERS WAREDED (X) MUST MEET THE FRACTURE W/OTM TESTING REQUIREMENTS AS INDICATED IN SECTION 714 OF THE VERMONT AGENCY OF TRANSPORTATION SPECIFICATIONS FOR CONSTRUCTION.

45. ANY WOLLS IN THE WEB OF THE FRACIA MEMBERS THAT ARE NOT OTHERWISE FILLED, SHALL BE FILLED WITH EITHER BUTTER OR HEAT TREAT MOLTEN METAL WITH SPECIFICATION ANY, TYPE 7.

46. ALL FIELD CONNECTIONS SHALL BE MADE WITH 20 mm DIAMETER ARROWDRIFT 1/4" MIN. IT ALL BOLTS IN 24 mm DIAMETER HOLES.

47. THE DESIGN OF THE PILING BRACINGS SHALL BE LEFT UP TO THE CONTRACTOR BUT SHALL BE LIMITED TO A MAXIMUM OF 1,220 METER SPACING.

48. NOT USED

TEMPORARY DETOUR

36. FAIR HAVEN, VT, TOWN HIGHWAY 45 (WASHINGTON COUNTY, NY, COUNTY ROAD 11) IS TO BE CLOSED TO THROUGH TRAFFIC DURING CONSTRUCTION.

37. THE CONTRACTOR SHALL NOTIFY MIKE BARANOW, TOWN MANAGER, TOWN OF FAIR HAVEN, VT AT (802) 265-3010 AND WILLY GILMORE, SUPERINTENDENT, WASHINGTON COUNTY, NEW YORK AT (518) 746-2440. A WARNING OF TWO (2) HOURS PRIOR TO CLOSING THE ROAD.

39. a) THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE DETOUR SIGN FOR THE CLOSURE OF THE BRIDGE. THE DETOUR SIGN PACKAGE IS SHOWN ON SHEETS 13-15. ALL SIGNS MUST BE INSTALLED PRIOR TO CLOSURE OF THE BRIDGE.

b) THE INSTALLATION OF THE DETOUR SIGNS AND ANY ADDITIONAL SIGNS NOT INCLUDED IN THE DETOUR PLAN BUT DEEMED NECESSARY BY THE RESIDENT ENGINEER SHALL BE PAID FOR AS ITEMS 675.20, TRAFFIC SIGNS, TYPE A (WFO) AND 675.30, FLANGED CHANNEL SIGN POST (WFO).

c) ALL DETOUR SIGNS AND POSTS SHALL BE REMOVED BY THE CONTRACTOR AT THE END OF THE PROJECT OR AS DIRECTED BY THE ENGINEER. THE SIGNS AND POSTS WILL BECOME THE PROPERTY OF THE CONTRACTOR. THE WORK TO REMOVE THE SIGNS AND POSTS SHALL BE PAID FOR AS 675.20 "TRAFFIC SIGNS, TYPE A" (WFO) AND 675.30, "FLANGED CHANNEL SIGN POST" (WFO).

d) ALL WASHINGTON COUNTY SIGNS USED FOR THE DETOUR SHALL BE RETURNED TO WASHINGTON COUNTY. THE CONTRACTOR SHALL STOCKPILE THESE SIGNS UNTIL WASHINGTON COUNTY IS ABLE TO PICK UP THE SIGNS. CONTACT WILLY GILMORE, SUPERINTENDENT, WASHINGTON COUNTY AT (518) 746-2440.

39. IF THE CONTRACTOR HAS TO REMOVE AND RESET DETOUR SIGNS DUE TO RECONSTRUCT PLACEMENT OR SIGN DISTANCE PROBLEMS AS ORDERED BY THE ENGINEER, THE WORK NECESSARY TO COMPLETE THIS TASK WILL BE INCIDENTAL TO THE ITEM 641.10, "TRAFFIC CONTROL".

40. THE REMOVAL, COVERING AND/OR RESETTING OF EXISTING TRAFFIC SIGNS, AS DEEMED NECESSARY BY THE RESIDENT ENGINEER, WILL BE CONSIDERED INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL".

41. THE COST OF ALL ON-PROJECT SIGNING AND BARRICADES SHALL BE INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL".

42. ACCESS TO DRIVERS SHALL BE MAINTAINED. WHEN THE CONTRACTOR MUST TEMPORARILY RESTRICT ACCESS TO THE DRIVER, THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS IN ADVANCE. THIS WORK WILL BE PAID FOR UNDER THE ITEM 641.10, "TRAFFIC CONTROL".

43. EXISTING TRAFFIC SIGNS AND SIGN POSTS (AS SHOWN ON SHEET 34) SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR. THIS WORK WILL BE PAID FOR UNDER THE ITEM 615.50, "REMOVING SIGNS".

GRADE

44. NO BORINGS WERE TAKEN ON THIS PROJECT. SUBSURFACE CONDITIONS MAY VARY FROM THE CONDITIONS ASSUMED FOR DESIGN. ROAD BOUNDRIES WERE PERFORMED TO DETERMINE THE APPROXIMATE DEPTH OF THE LEVEL.

45. IF LADE IS ENCOUNTERED MORE THAN 600 mm BELOW THE INDICATED BOTTOM OF FOOTING ELEVATIONS AS SHOWN ON THE PLANS, THE STRUCTURES SECTION SHALL BE CONTACTED. PROFILES OF THE LADE MAY BE REQUIRED TO ADJUST THE FOOTING ELEVATIONS AND SIZE. NO FURTHER WORK SHALL BE DONE ON THE FOOTINGS UNTIL A REPORT IS RECEIVED FROM THE STRUCTURES SECTION.

46. FOOTING SHALL BE PLACED ON ROCK, CLEAN SAND, ALL OVER BRANDED BELOW INDICATED BOTTOM OF FOOTING SHALL BE REPLACED WITH "CONCRETE, HIGH PERFORMANCE CLASS 8". A MAXIMUM OF 150 mm AVERAGE DEPTH SHALL BE PAID FOR AS "CONCRETE, HIGH PERFORMANCE CLASS 8". AND ADDITIONAL CONCRETE REQUIRED SHALL BE PAID AT THE CONTRACTOR'S EXPENSE. THESE QUANTITIES HAVE BEEN ADDED TO THE QUANTITY SHEET.

47. AN ESTIMATED QUANTITY OF THE ITEM 205.20 "SPALLING AND BLASTING OF SOLID ROCK SUBGRADE", HAS BEEN INCLUDED AS LADE EXISTS IN THE PROJECT AREA. IF LADE IS ENCOUNTERED DURING EXCAVATION FOR WEARWALL, THE QUANTITY OF ITEM 205.20 TO BE PAID WILL BE DETERMINED BY THE RESIDENT ENGINEER. REMOVAL OF BLASTED ROCK NECESSARY WILL BE PAID UNDER THE ITEM 205.16 "SOLID ROCK RECONSTRUCTION".

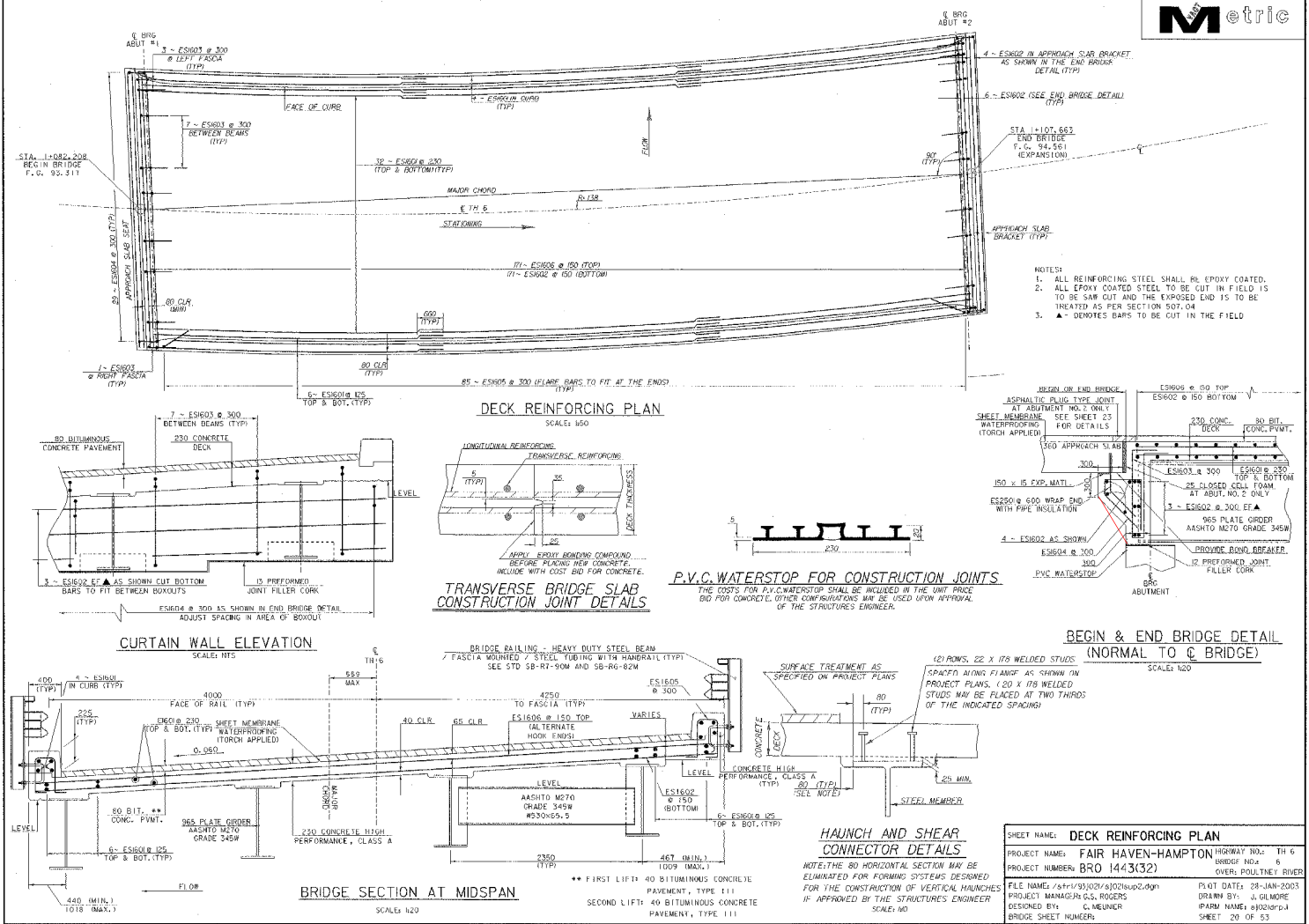
PRECAST CONCRETE BOX

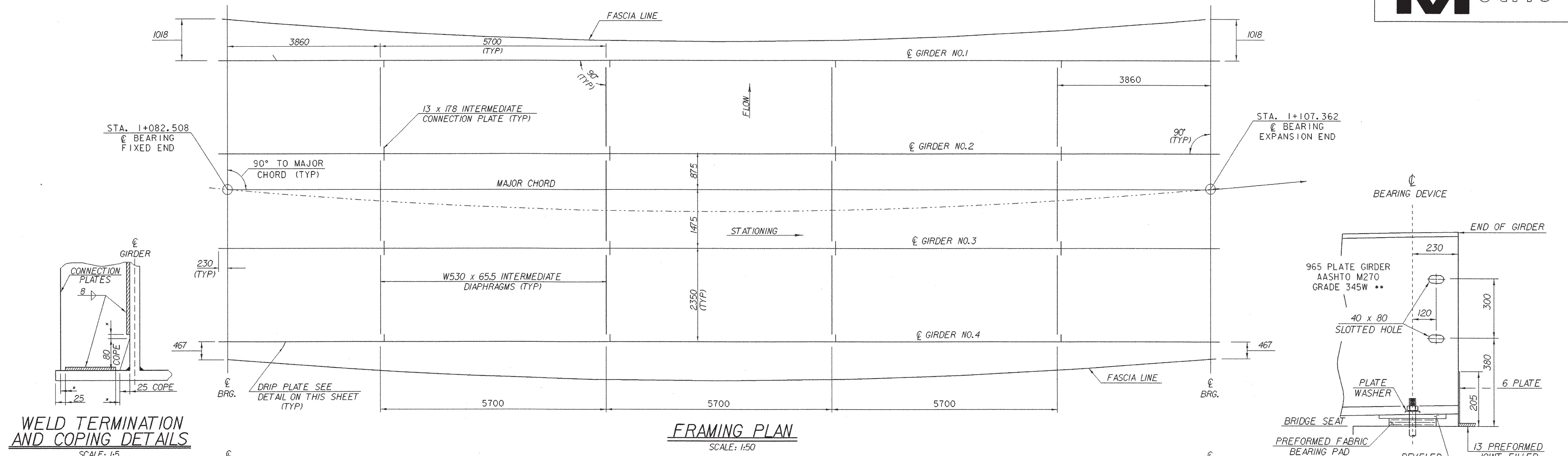
48. THE CONTRACTOR SHALL SUBMIT A PLAN TO THE STRUCTURES ENGINEER FOR MAINTAINING STREAM FLOW DURING THE CONSTRUCTION OF THE BOX CULVERT. A PLAN ACCEPTABLE TO THE STRUCTURES ENGINEER MUST BE RECEIVED PRIOR TO ANY WORK ON OR NEAR THE EXISTING CULVERTS.

49. ALL ADDITIONAL NOTES PERTAINING TO THE CONCRETE BOX ARE ON SHEET 30.

SPACING + - 5 mm
CLEARANCE + - 5 mm

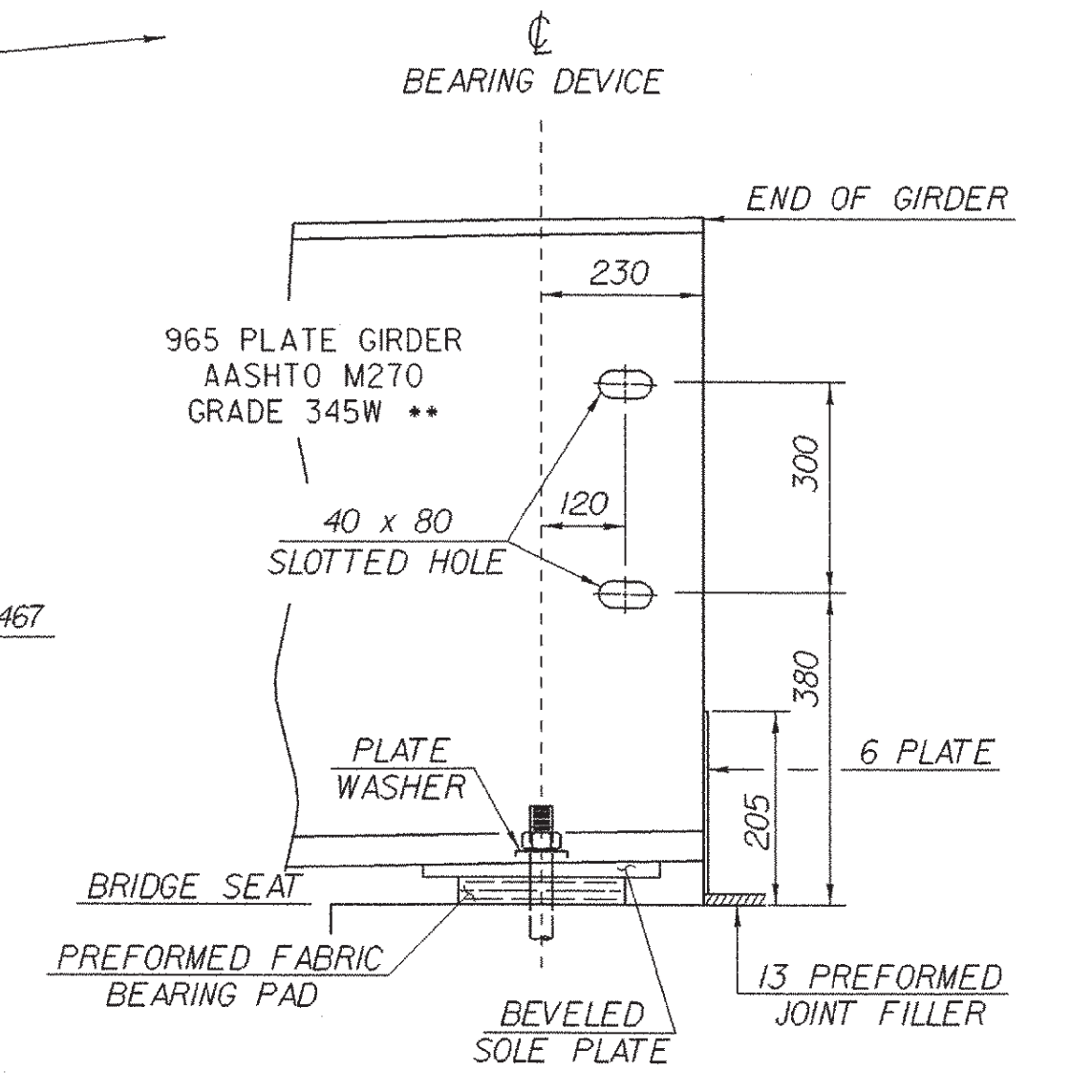
PROJECT NAME:	FAIR HAVEN - HAMPTON	PLOT DATE:	11/01/19
PROJECT NUMBER:	BRO 1443(32)	DRAWN BY:	J. GILMORE
FILE NAME:	wp193201n021gen.xls	CHECKED BY:	G.S. MEUNIER
PROJECT LEADER:	G.S. ROGERS	CHECKED BY:	
GENERAL NOTES SHEET		SHEET	19 OF 53



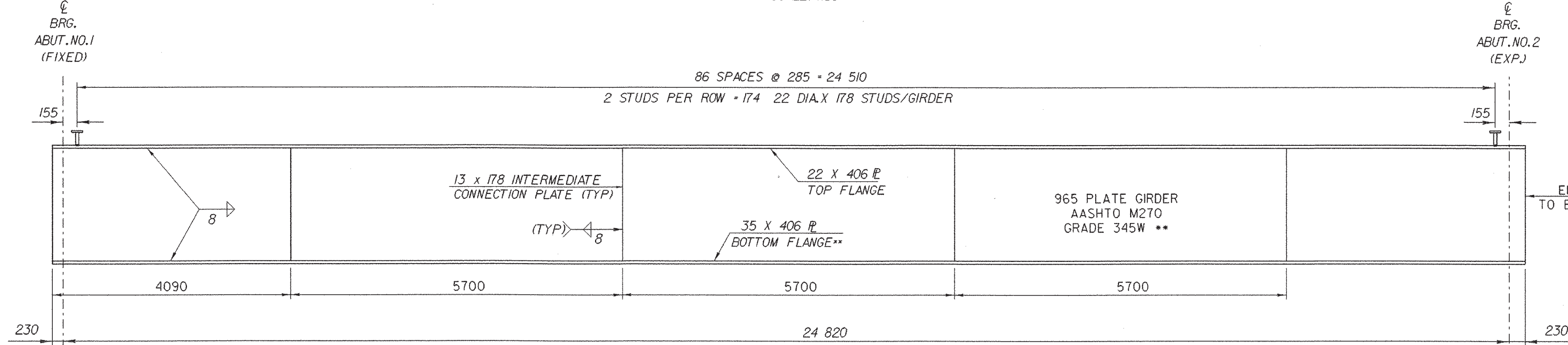


WELD TERMINATION AND COPING DETAILS
SCALE: 1:5

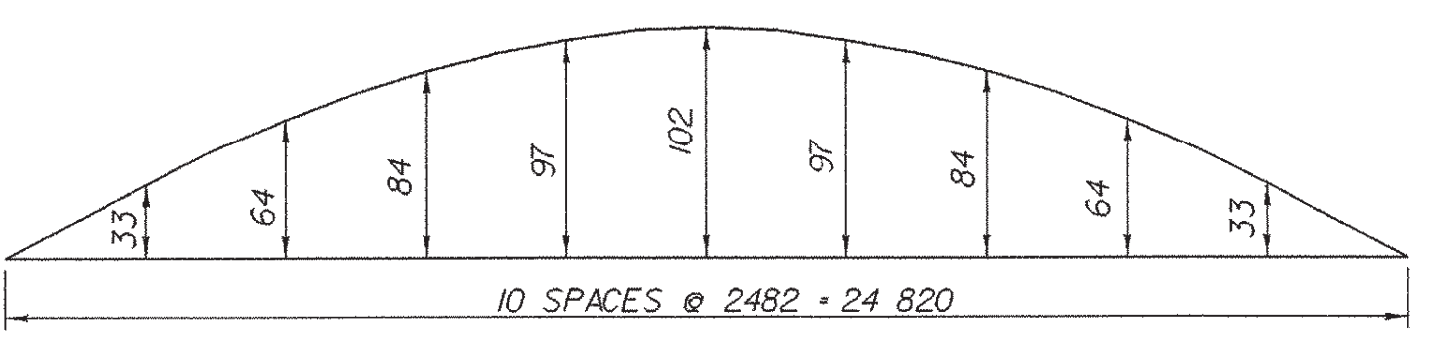
* NO WELD FOR 6 MIN. 15 MAX
(EXCEPT MUST MAINTAIN 30 MIN FROM
EDGE OF FLANGE.)



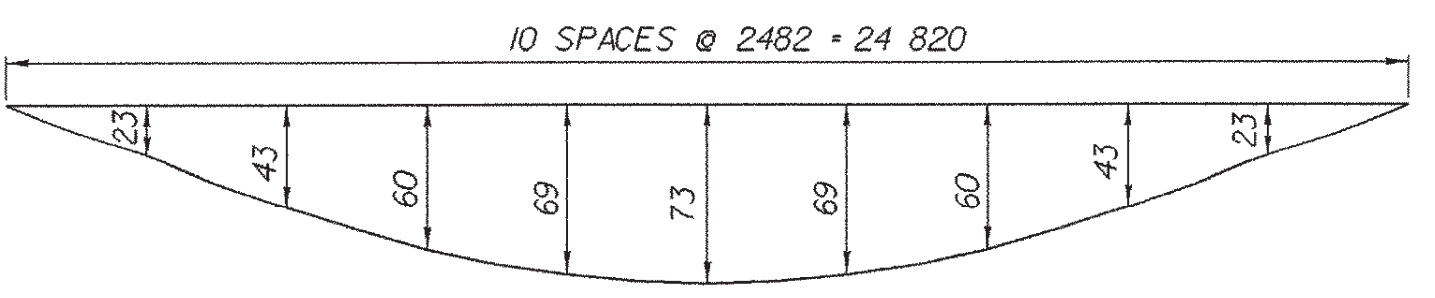
END GIRDER DETAIL
SCALE: 1:10



TYPICAL GIRDER ELEVATION
HORIZONTAL SCALE: 1:50
VERTICAL SCALE: 1:25

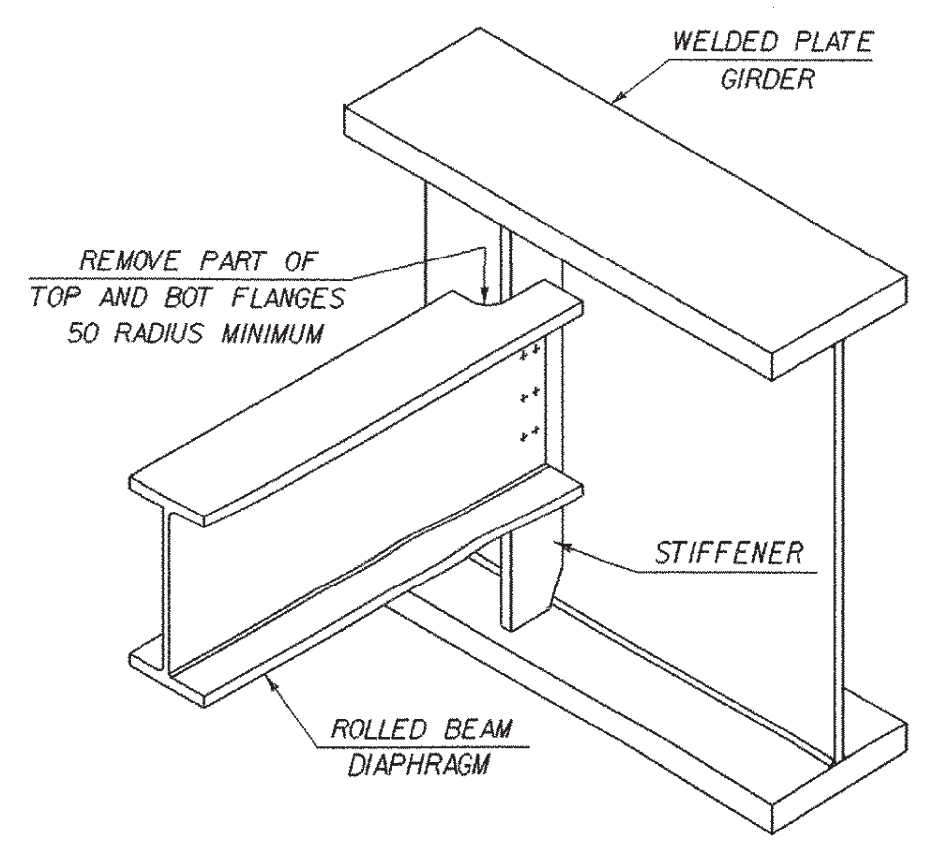


CAMBER DIAGRAM
NTS

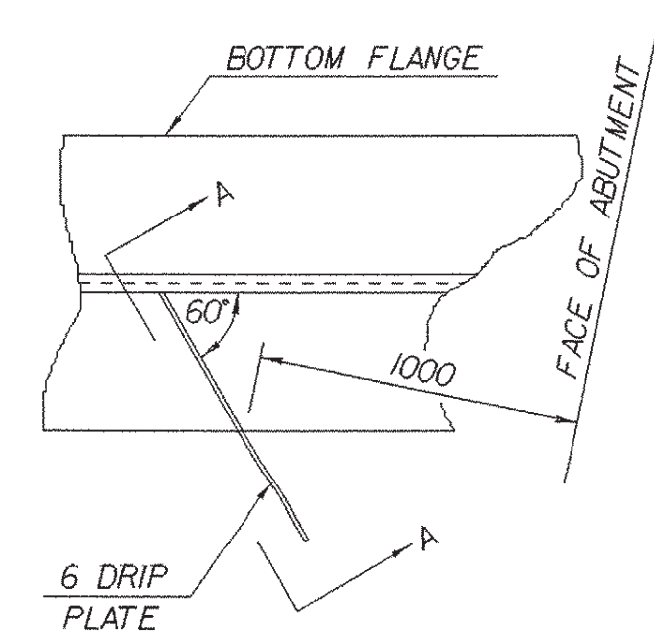


DEAD LOAD DEFLECTION
NTS

NOTE: DEAD LOAD DEFLECTION IS DUE TO GIRDER,
DIAPHRAGMS, DECK, CURBS, PAVEMENT
AND RAILING.

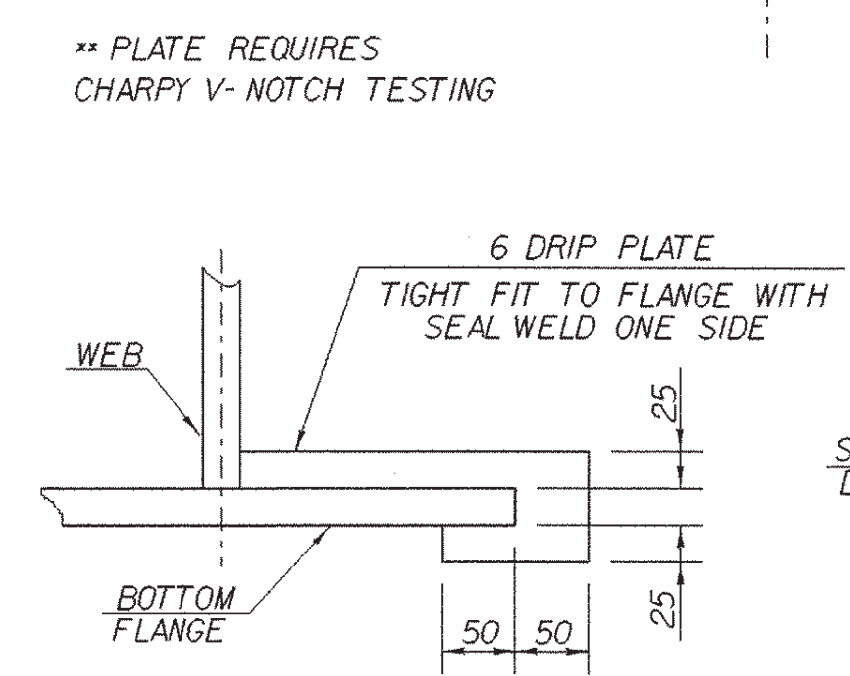


ROLLED BEAM USED AS DIAPHRAGM

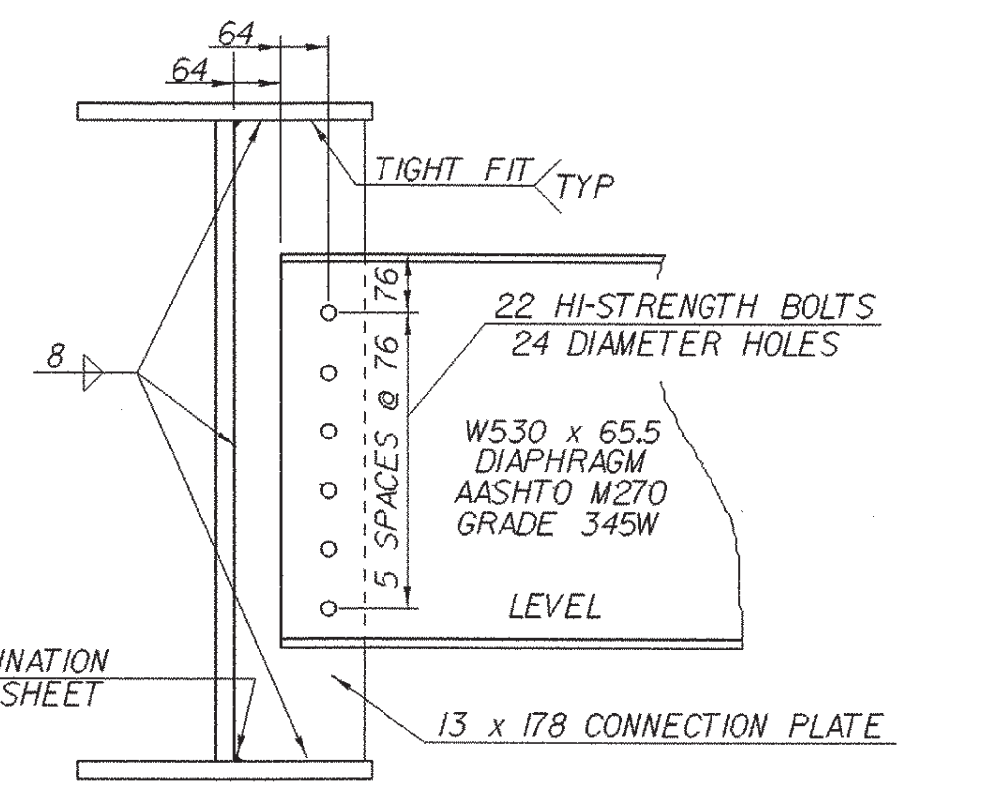


PLAN DRIP PLATE

NOTE: DRIP PLATES SHALL BE PLACED ON THE OUTSIDE
EDGE OF FASCIA GIRDERS AS INDICATED ON PROJECT PLANS.



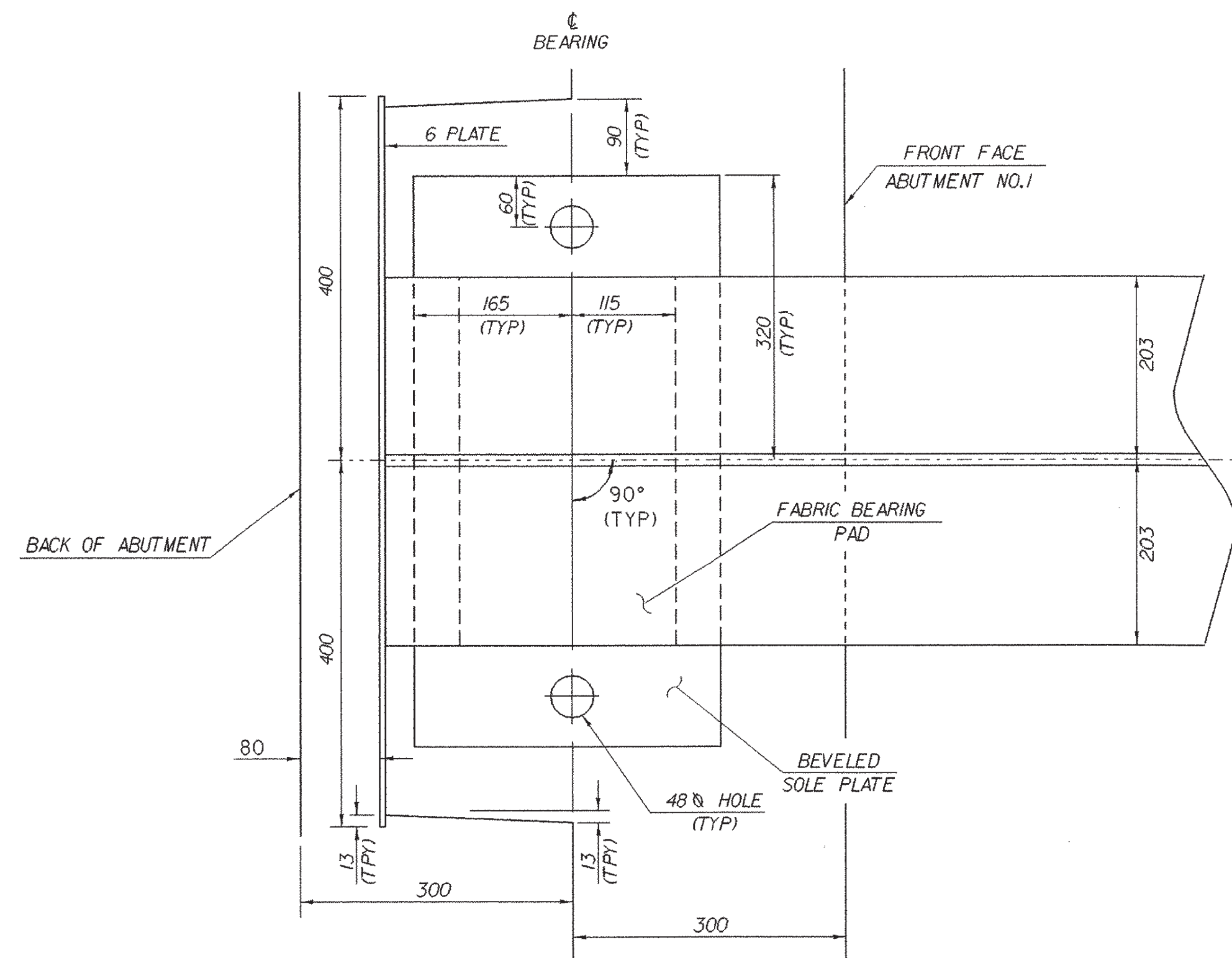
SECTION A - A



INTERMEDIATE DIAPHRAGMS
SCALE: 1:10

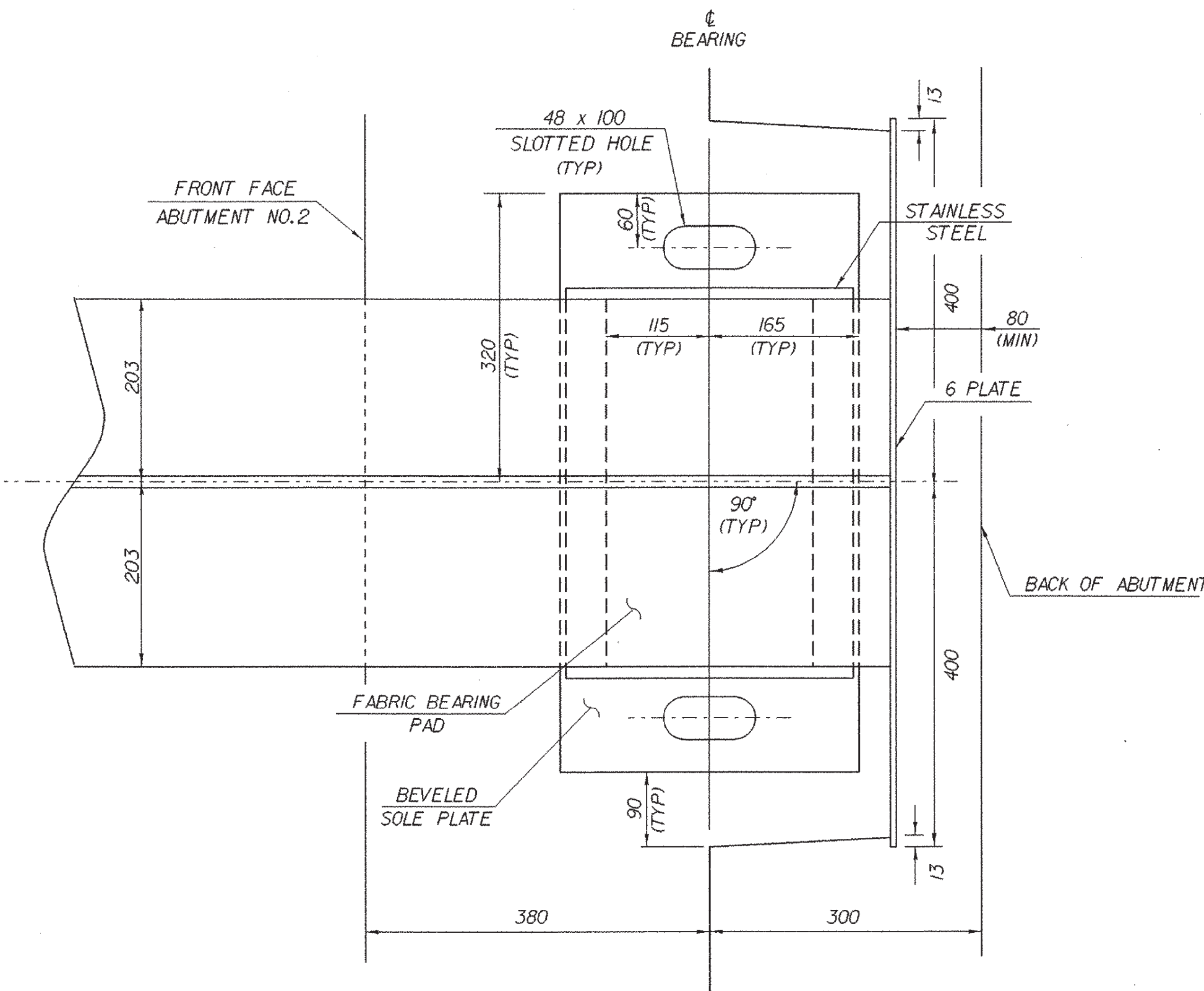
NOTE: HI-STRENGTH BOLTS, NUTS AND WASHERS SHALL
CONFORM TO AASHTO DESIGNATION M 164.

SHEET NAME: FRAMING PLAN		
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6	
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6	
	OVER: POULTNEY RIVER	
FILE NAME: /str1/93j021/sj021sup2.dgn	PLOT DATE: 28-JAN-2003	
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE	
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021fp.i	
BRIDGE SHEET NUMBER:	SHEET 21 OF 53	



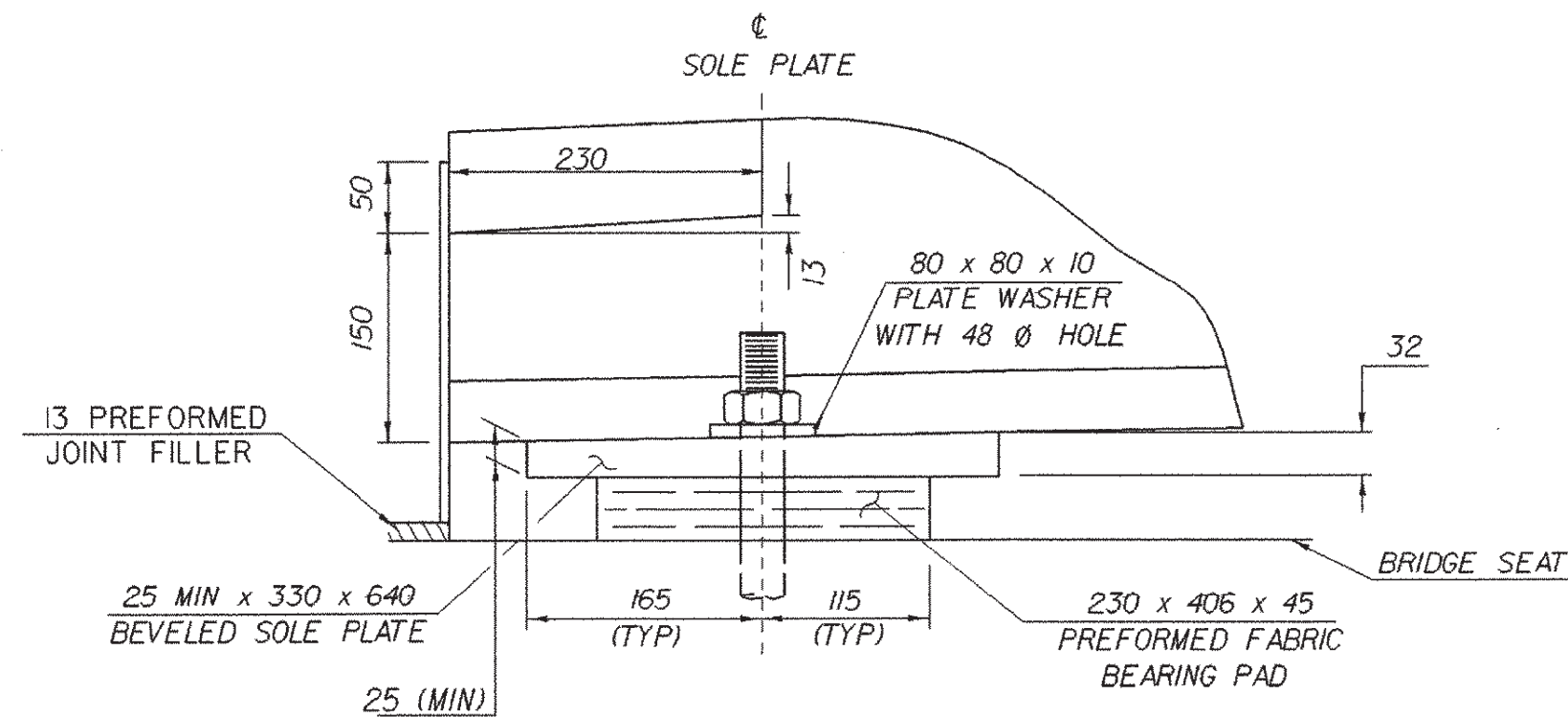
PLAN

SCALE: 1:5



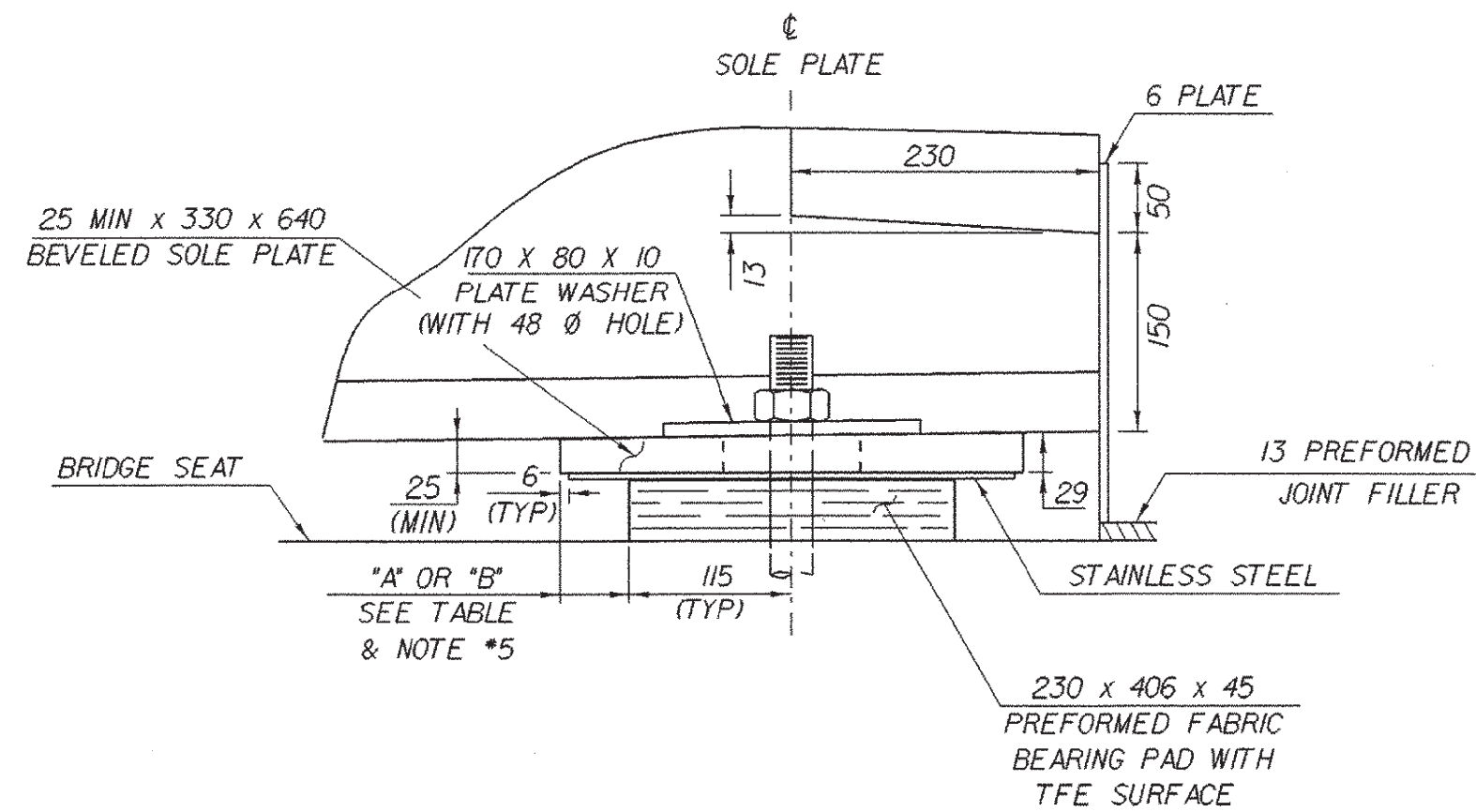
BEARING NOTES

- Bearings shall conform to applicable subsections of section 531 & 731.
- Bearings shall be paid for under the item 531.10 "BEARING DEVICE ASSEMBLY".
- Shop drawings conforming to subsection 531.03 shall be submitted to include welding and bonding procedures.
- The concrete surface under the bearing device shall be level.
- "A" distance is the final setting for the bearing pad after the concrete slab, curb, pavement and bridge rail are placed. "B" distance is listed for setting the bearing after the structural steel is erected and before the concrete deck and curbs have been placed. The difference is the theoretical elongation of the bottom flange due to dead load deflection. The final "A" distance, as shown in the table, must be attained within 2mm.
- Design criteria:
 - Base plate to concrete design pressure = 7000 kPa maximum
 - Minimum allowable design rotation = 0.015 radians
 - Horizontal capacity shall be a minimum of 10% of the vertical load
 - Design load per bearing = 623 kN
- All steel in bearing devices (except stainless) shall be AASHTO M-270, Grade 345.
- Anchor bolts shall have a minimum of 380 embedment into the concrete and shall conform to subsection 714.08 in the Vermont Specifications.
- All bearing devices shall be galvanized or metalized as per subsection 531.04(b) and 506.15 of the General Special Provisions. Areas of galvanizing or metalizing damaged by field welding or handling shall be painted with a zinc rich paint in accordance with Supplemental Specification 513.
- All the anchor bolts, nuts and washers shall be galvanized. All washers shall be 10 plate (minimum). Payment for anchor bolts, nuts and washers shall be included in the unit bid price for "BEARING DEVICE ASSEMBLY".

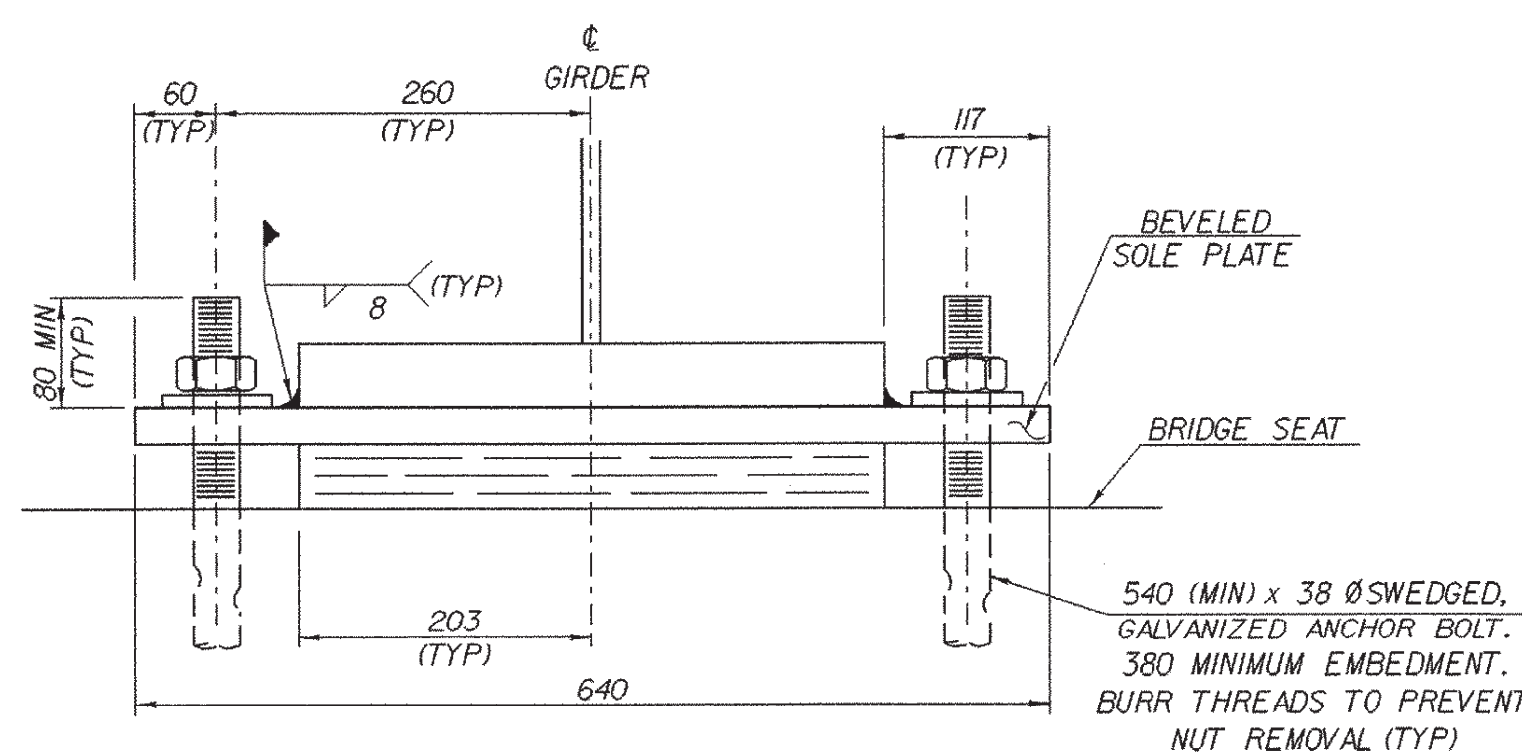


SIDE ELEVATION

SCALE: 1:5



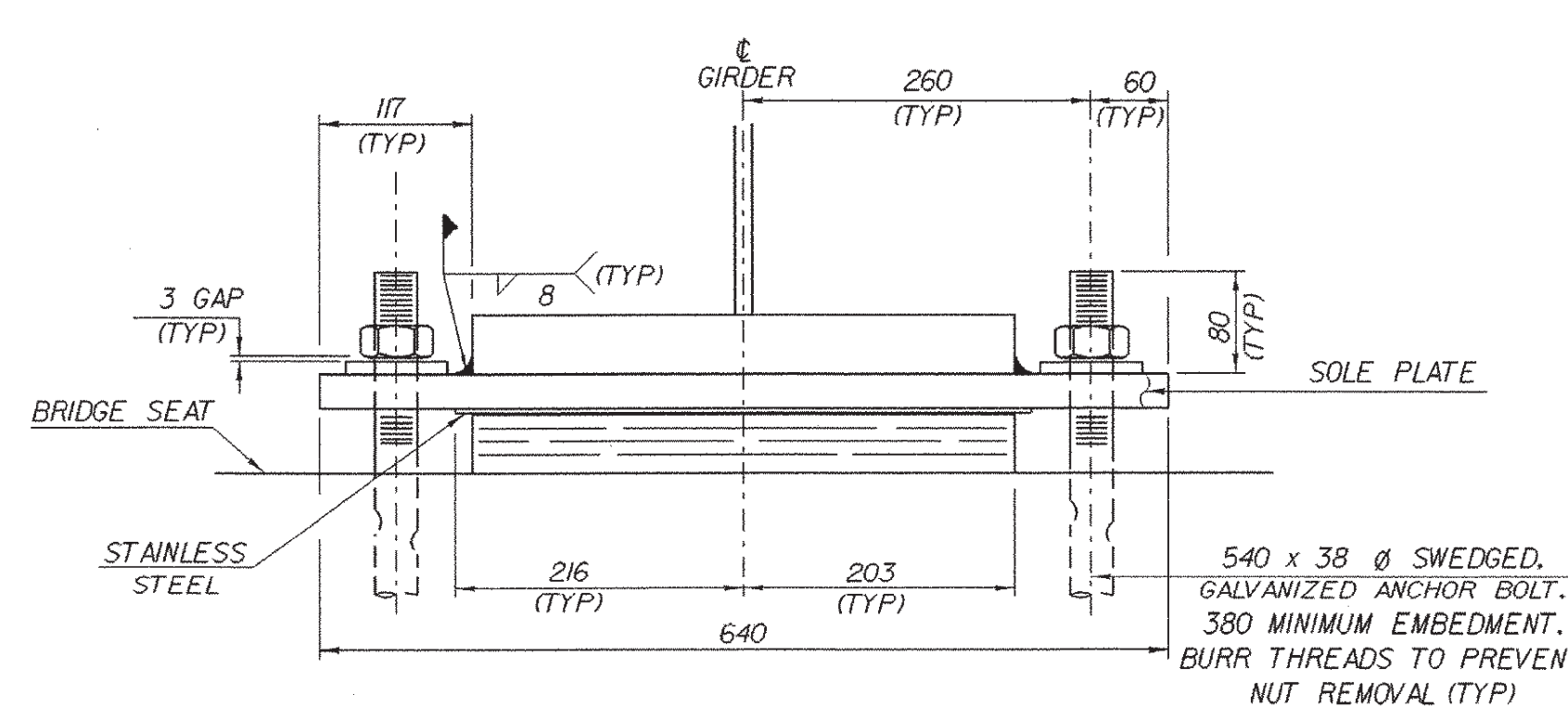
TEMP	"A" DIST	"B" DIST
-34°C	63	71
-26°C	60	68
-18°C	59	67
-9°C	56	63
-1°C	52	60
7°C	50	59
16°C	49	57
24°C	46	54
32°C	43	51
41°C	41	49
49°C	38	46



FIXED BEARING @ ABUT #1

FRONT VIEW

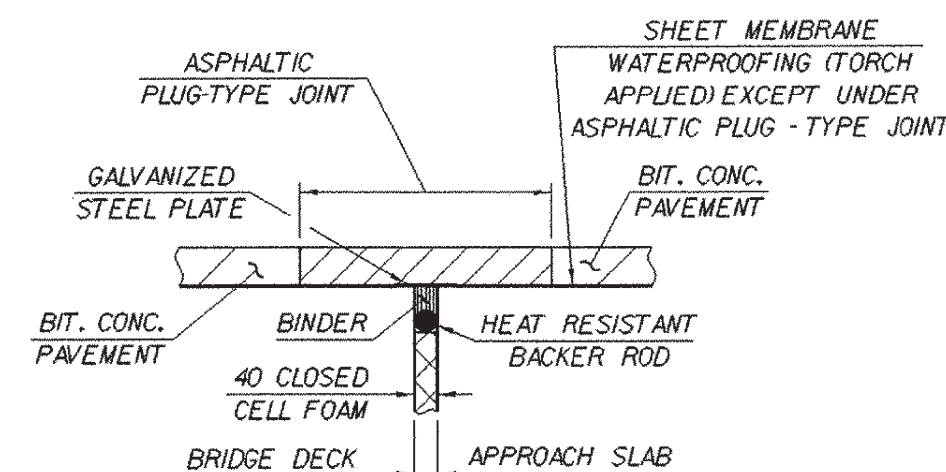
SCALE: 1:5



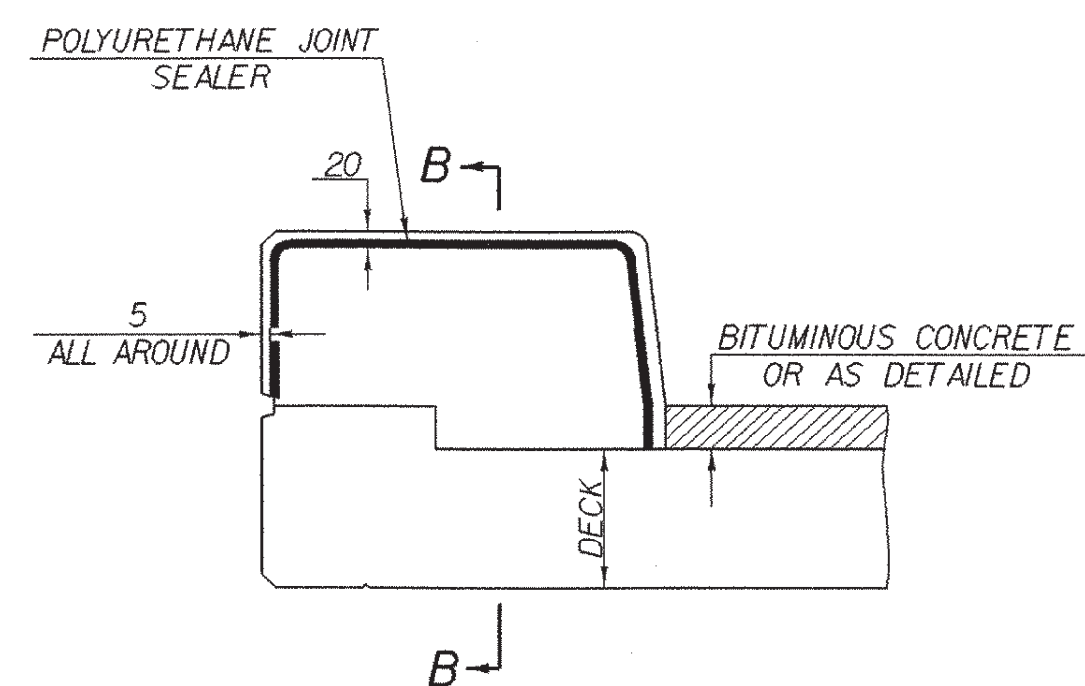
EXPANSION BEARING @ ABUT #2

SHEET NAME: BEARING DETAILS

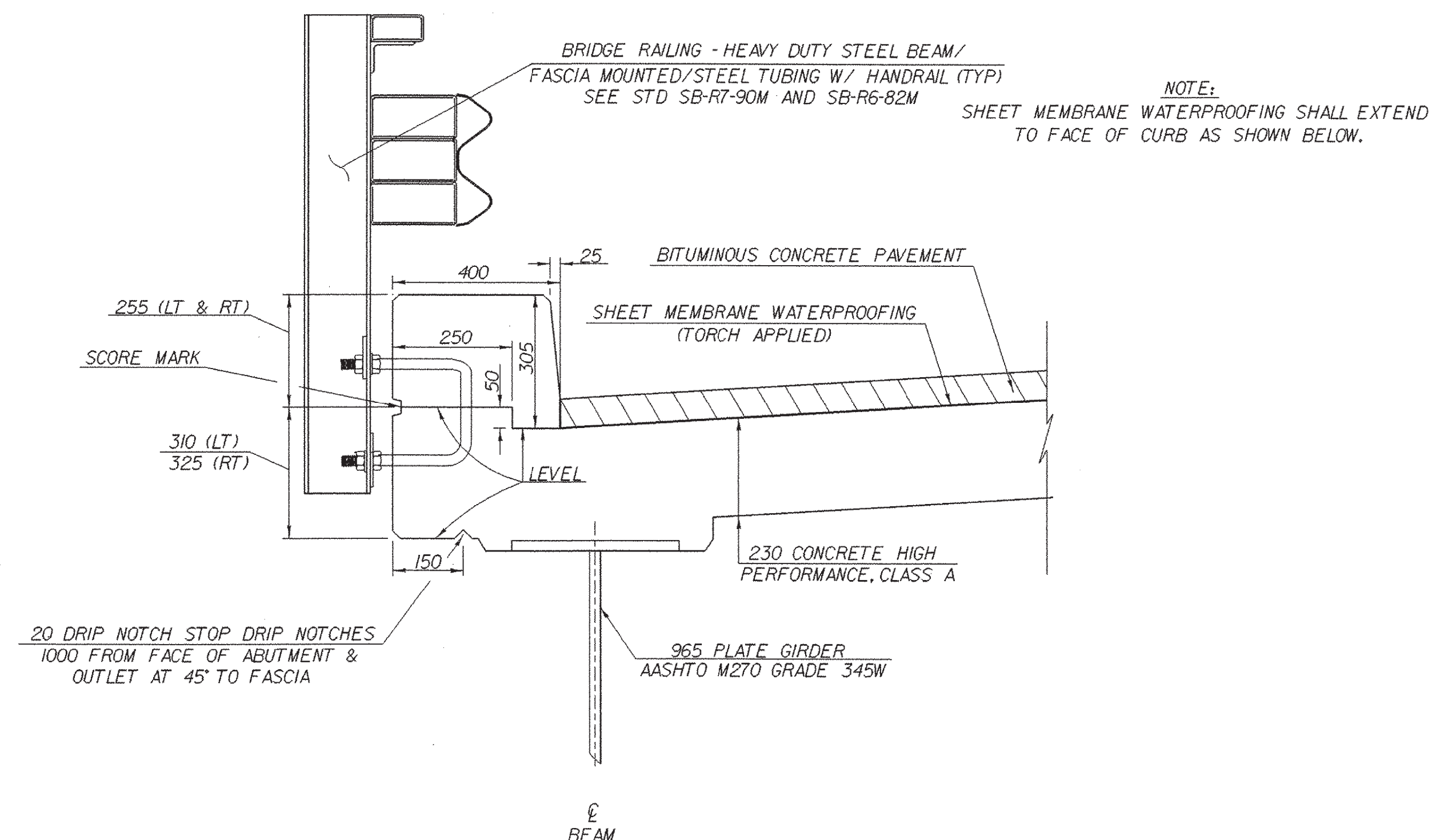
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /s+ri/93j021/sj021sup2.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: D. BONNEAU
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021br.1
BRIDGE SHEET NUMBER:	SHEET 22 OF 53



**ASPHALTIC PLUG-TYPE
JOINT DETAIL**
NTS

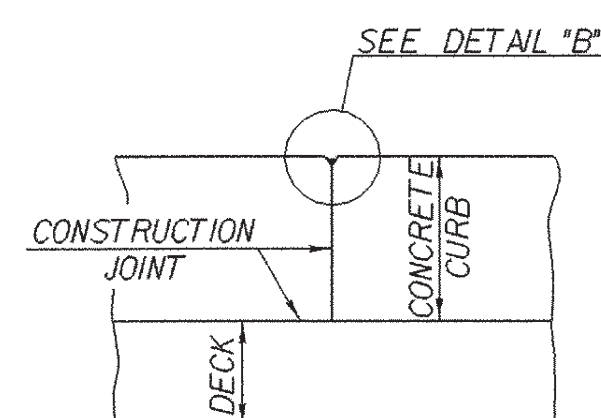


**TYPICAL SECTION THROUGH
CONCRETE CURB CONSTRUCTION JOINT**



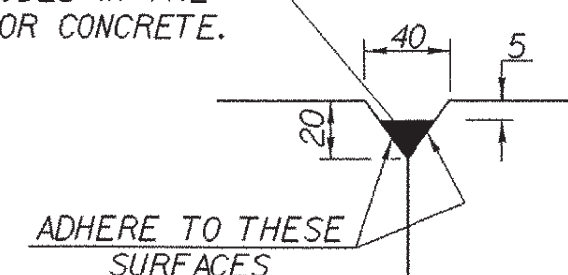
400 CURB SECTION - LEFT FASCIA

SCALE: 1/10



SECTION B - B

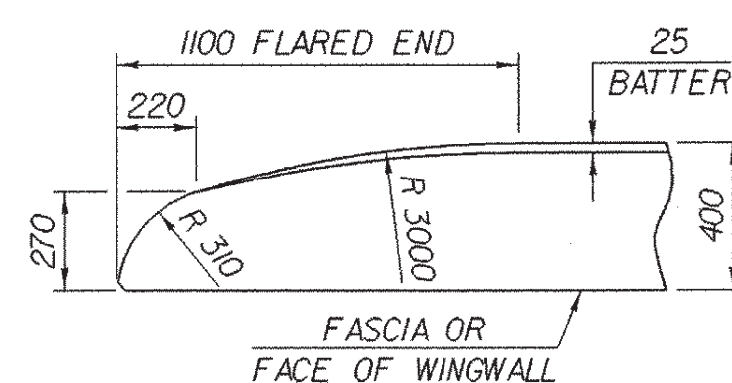
POLYURETHANE JOINT SEALER
PER SUBSECTION 524.06C
COLOR TO MATCH CONCRETE.
COST TO BE INCLUDED IN THE
UNIT PRICE BID FOR CONCRETE.



DETAIL "B"

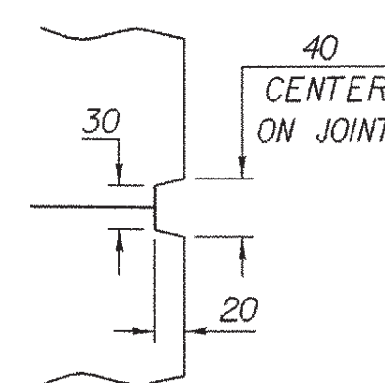
NOTES

1. POLYURETHANE MEMBRANE AND BLAST CLEANING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR SHEET MEMBRANE WATERPROOFING.
2. CONSTRUCTION JOINTS THROUGH CONCRETE CURBS SHALL BE SPACED A MAXIMUM 6000 CENTER TO CENTER AND SHALL BE 450 MINIMUM FROM THE CENTER OF THE NEAREST BRIDGE RAIL POST. CONCRETE SHALL BE PLACED IN ALTERNATING SECTIONS WITH A MINIMUM OF 48 HOURS DELAY BETWEEN ADJACENT POURS.
3. LONGITUDINAL REINFORCING SHALL PASS THROUGH CONCRETE CURB CONSTRUCTION JOINTS.
4. CURB REINFORCING STIRRUP BARS SHALL BE TURNED AS REQUIRED TO FIT TAPERED ENDS.

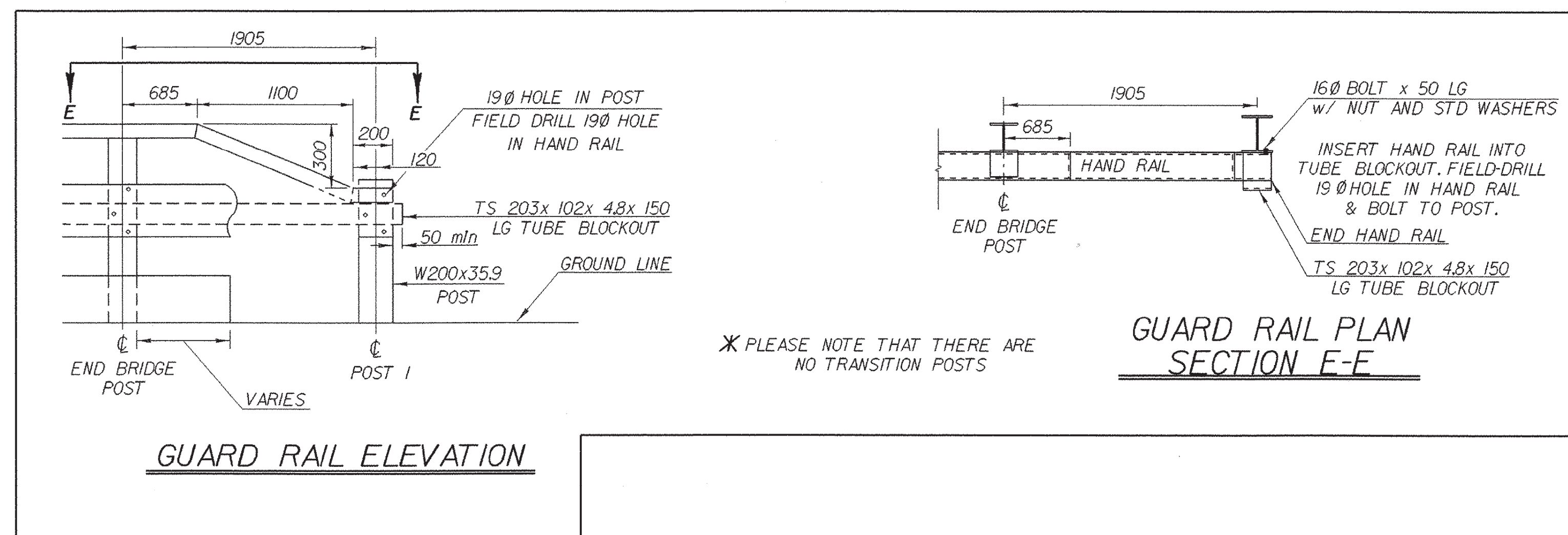


FLARED END FOR 400 CURB

BARS SHALL BE TURNED AS
REQUIRED TO FIT FLARED ENDS



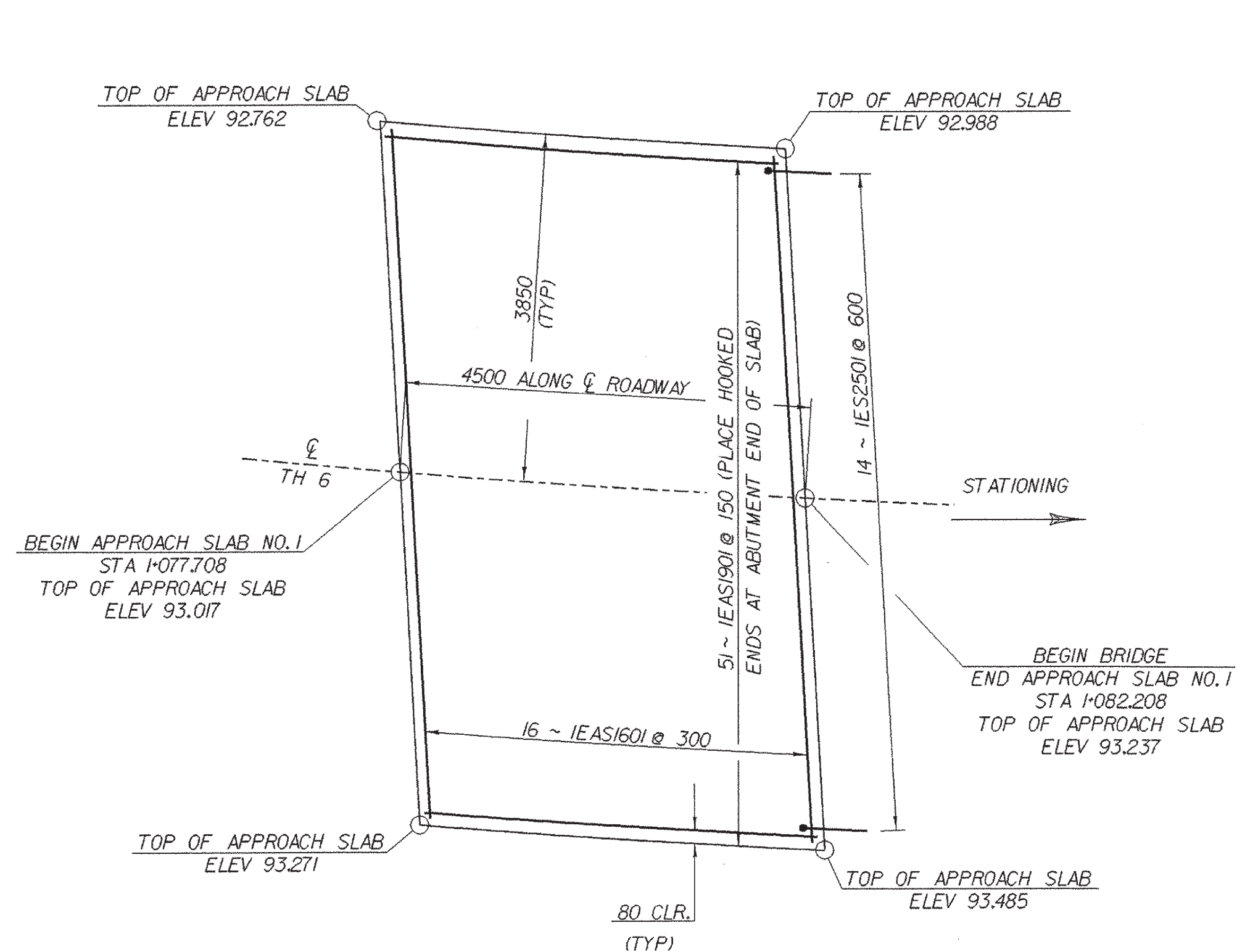
SCORE MARK DETAIL



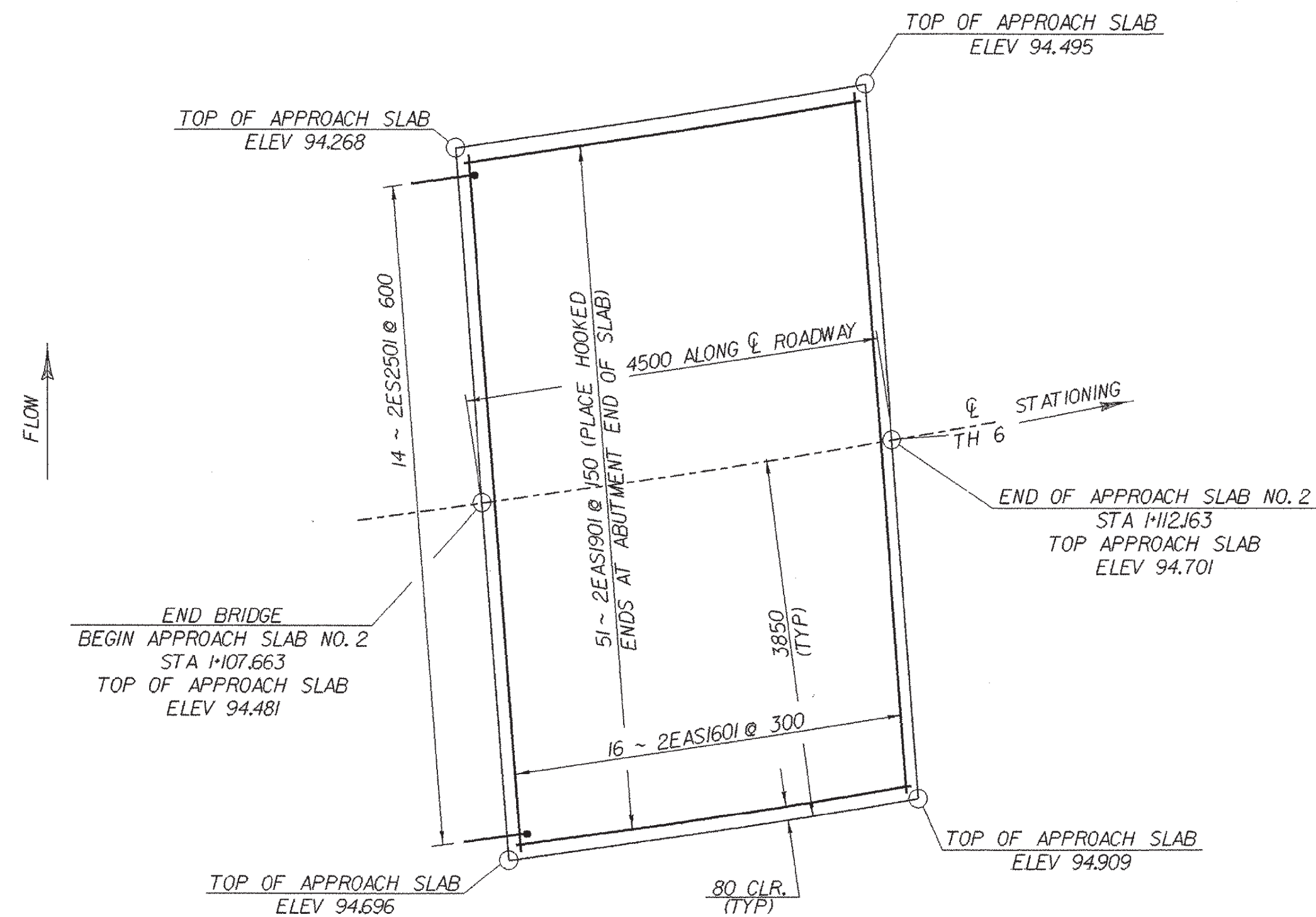
**HANDRAIL TO GUARDRAIL
POST CONNECTION DETAILS**

(NTS)

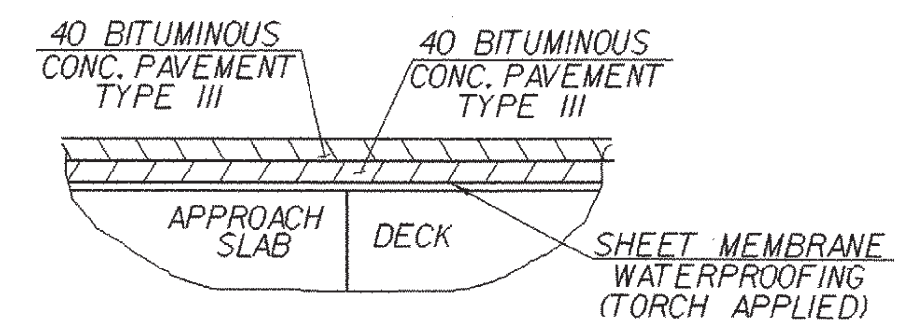
SHEET NAME: CURB DETAILS	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BR0 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /s1r1/93j021/sj021sup2.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021crb.i
BRIDGE SHEET NUMBER:	SHEET 23 OF 53



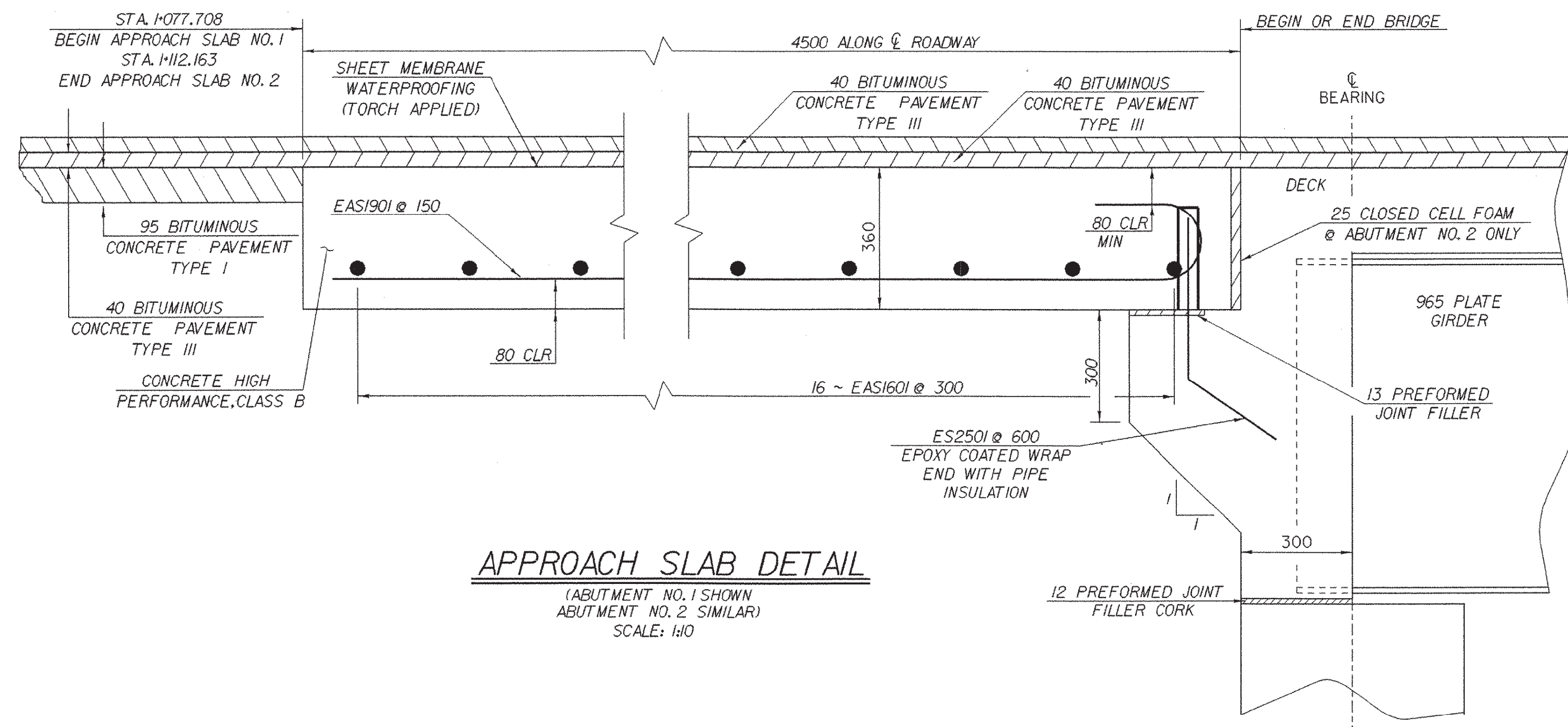
APPROACH SLAB (BEGIN BRIDGE) PLAN
SCALE: 1:50



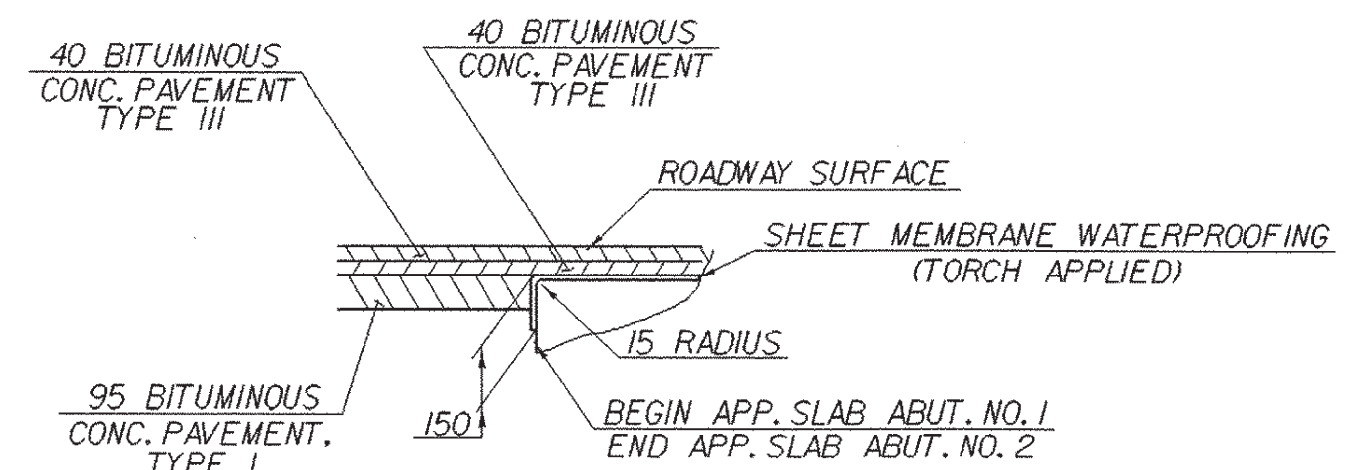
APPROACH SLAB (END BRIDGE) PLAN
SCALE: 1:50



DETAIL FOR SHEET MEMBRANE AT ABUTMENT NO.1
N.T.S.



APPROACH SLAB DETAIL
(ABUTMENT NO. 1 SHOWN
ABUTMENT NO. 2 SIMILAR)
SCALE: 1:10

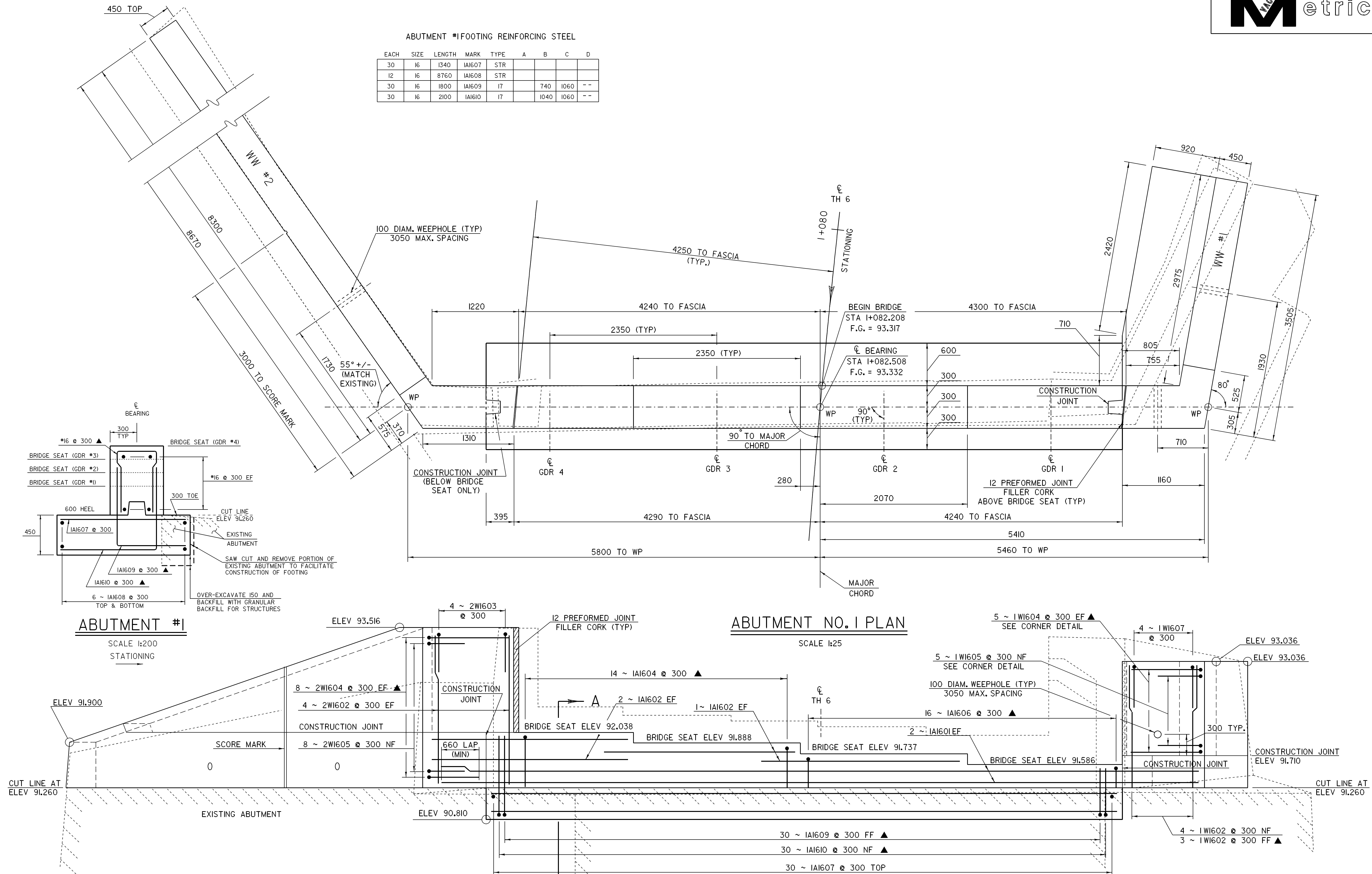


DETAIL FOR SHEET MEMBRANE AT APPROACH SLAB ENDS
N. T. S.

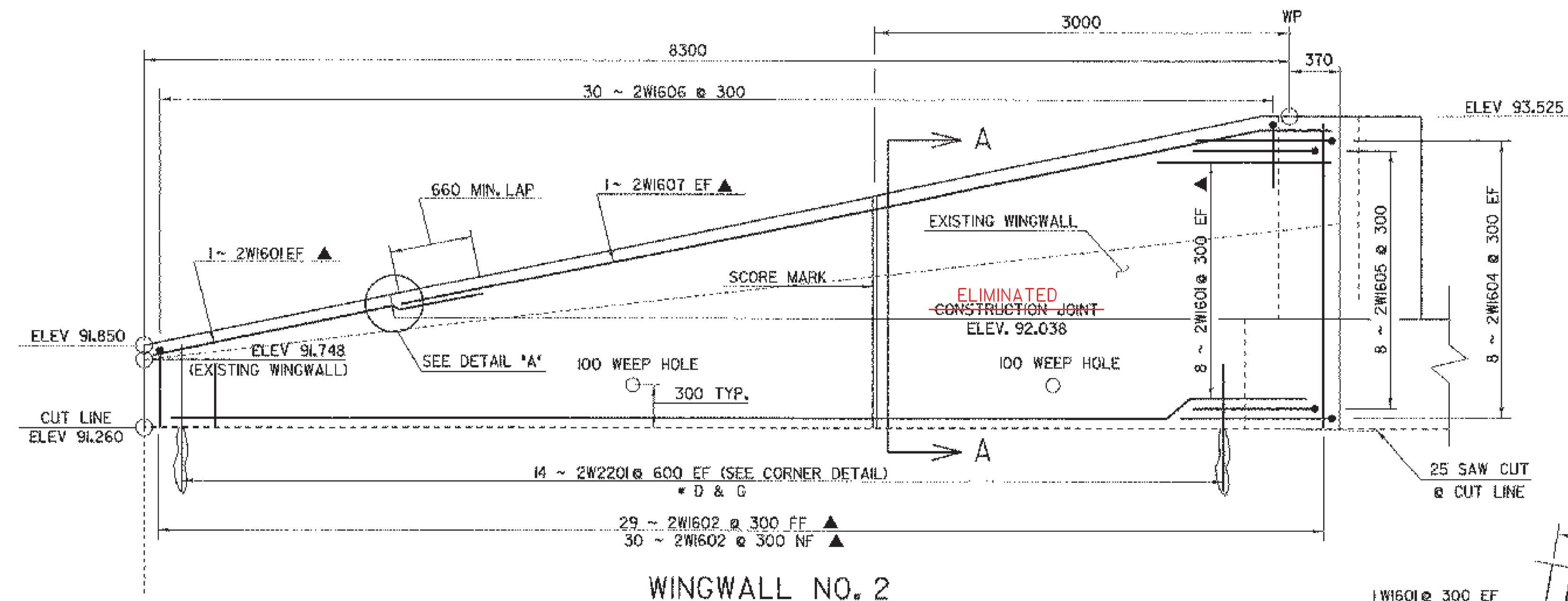
SHEET NAME: APPROACH SLAB DETAILS			
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6		
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6		
	OVER: POULTNEY RIVER		
FILE NAME: /str1/93j021/sj021sup2.dgn	PLOT DATE: 28-JAN-2003		
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J. GILMORE		
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021asd.1		
BRIDGE SHEET NUMBER:	SHEET 24 OF 53		

ABUTMENT #1 FOOTING REINFORCING STEEL

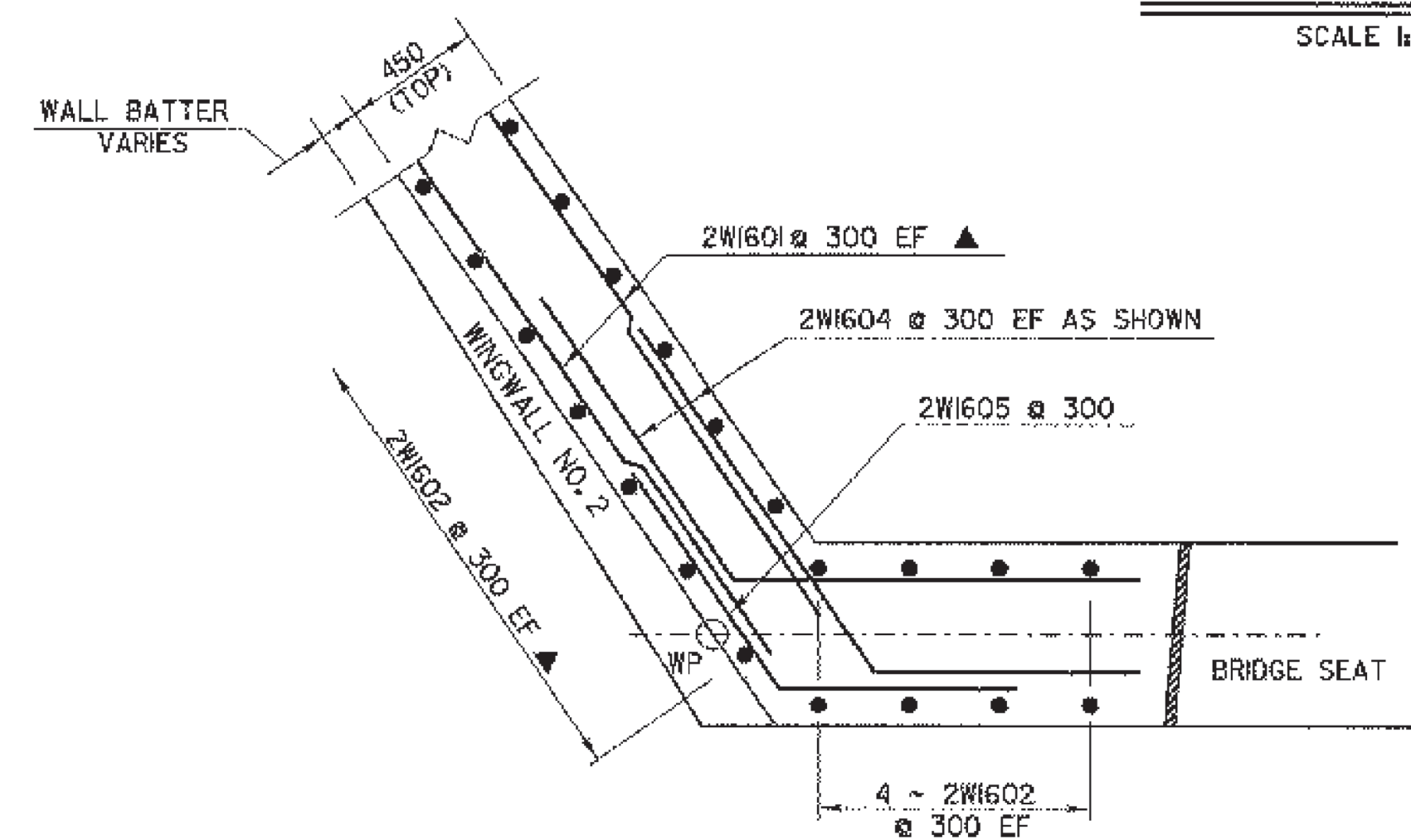
EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D
30	16	1340	1A1607	STR				
12	16	8760	1A1608	STR				
30	16	1800	1A1609	I7		740	1060	--
30	16	2100	1A1610	I7		1040	1060	--



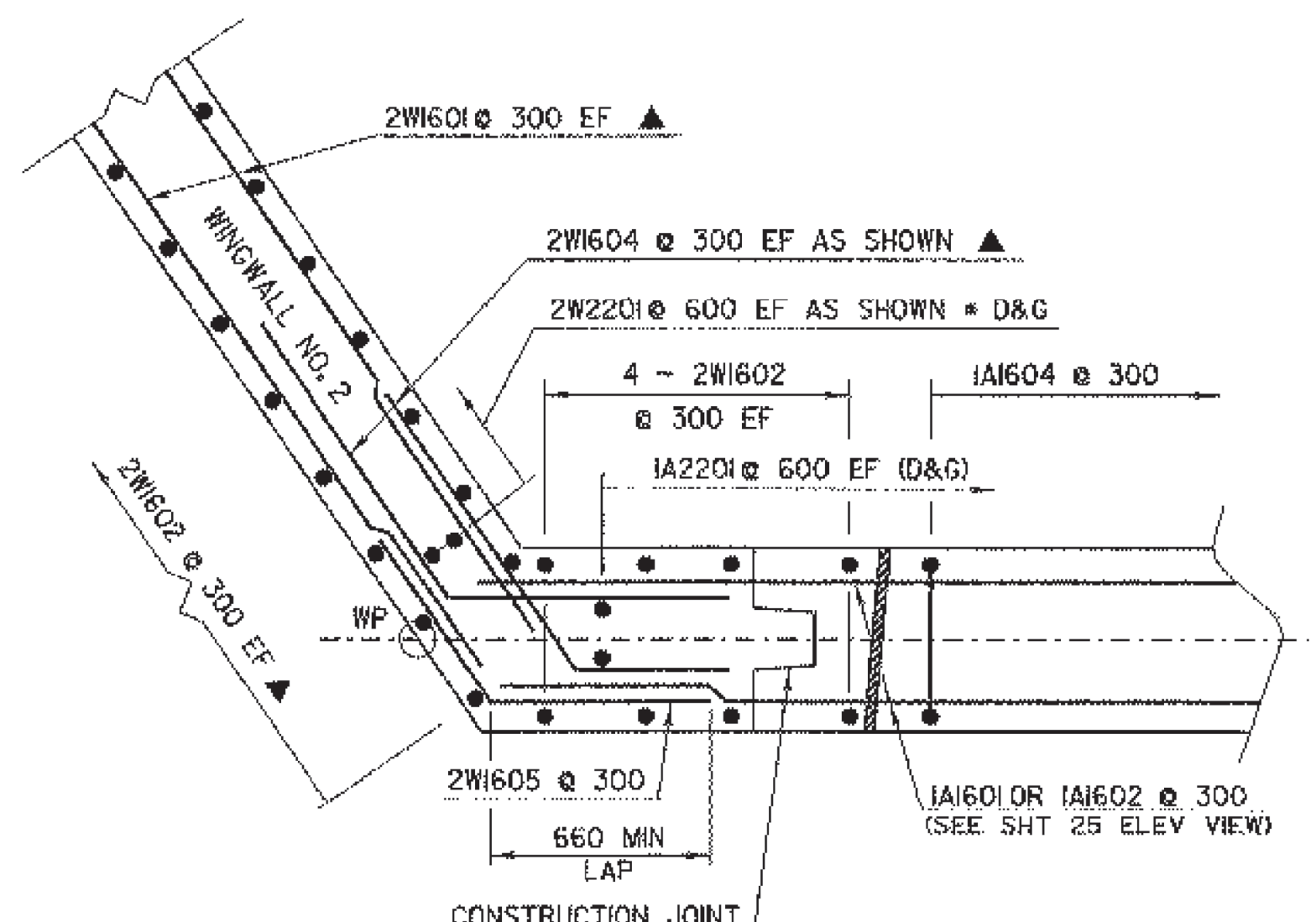
SHEET NAME:	ABUTMENT NO. 1
PROJECT NAME:	FAIR HAVEN-HAMPTON HIGHWAY NO.: TH 6
PROJECT NUMBER:	BRO 1443(32)
FILE NAME:	/s1r1/93j021/sj021sub2.dgn
PROJECT MANAGER:	G.S. ROGERS
DESIGNED BY:	C. MEUNIER
BRIDGE SHEET NUMBER:	
PLOT DATE:	29-MAR-2005
DRAWN BY:	D. BONNEAU
IPARM NAME:	sj021abl.1
SHEET	25 OF 53



WINGWALL NO. 2
SCALE 1/25

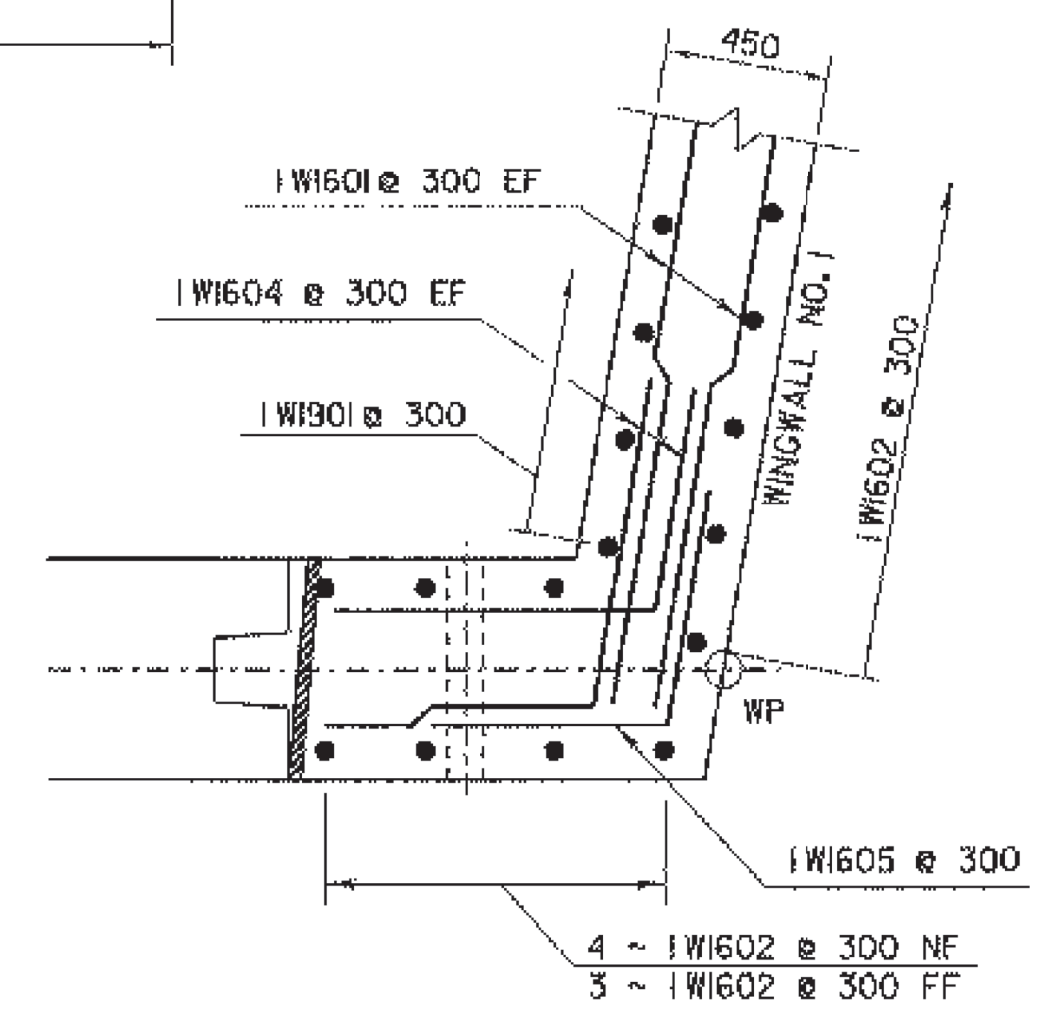


CORNER DETAIL WINGWALL NO. 2 (ABOVE BRIDGE SEAT)
SCALE 1/20

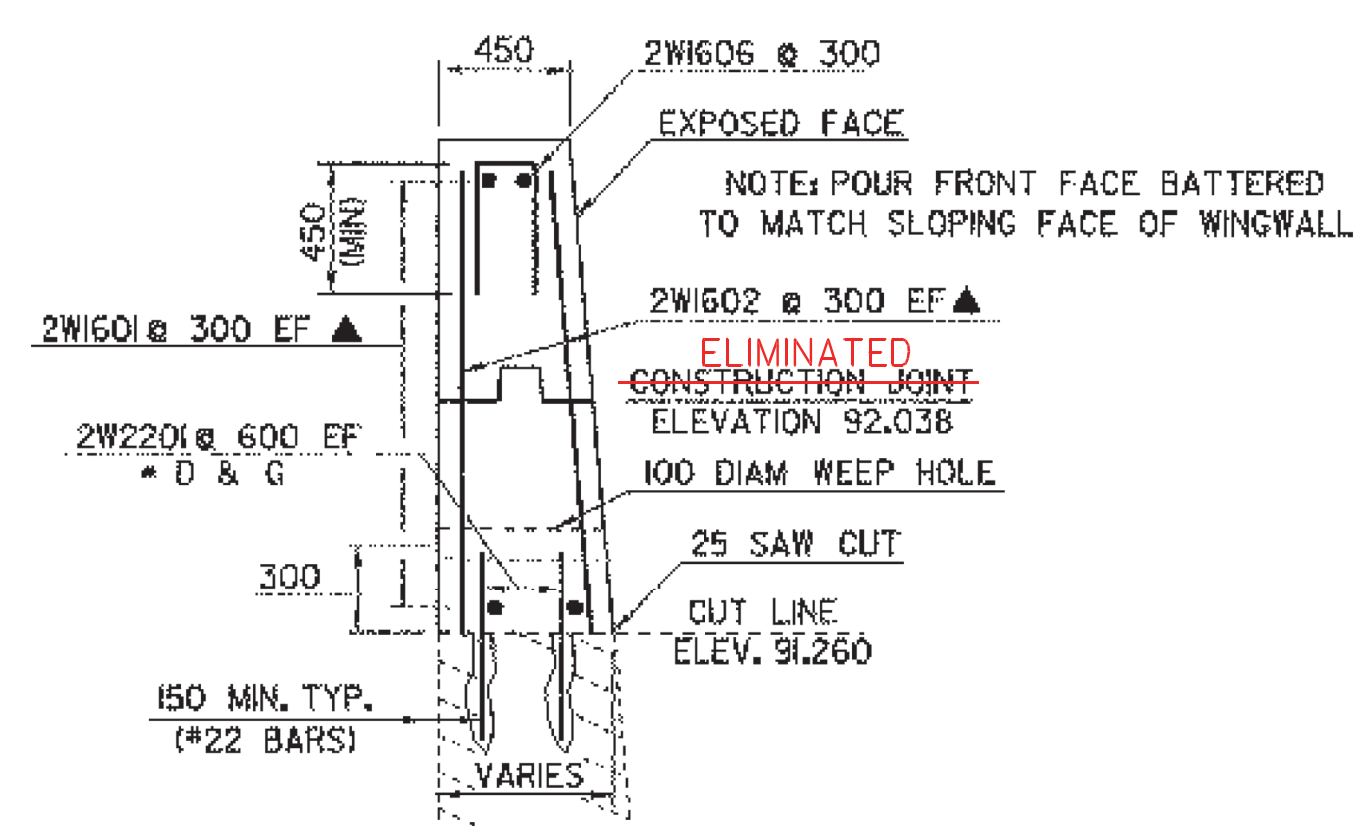


CORNER DETAIL WINGWALL NO. 2 (BELOW BRIDGE SEAT)
SCALE 1/20

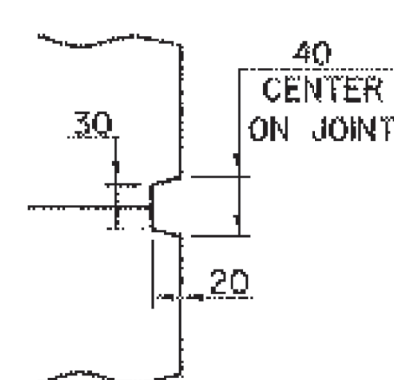
NOTES:
NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
60 CLEAR UNLESS OTHERWISE SPECIFIED ON THE PLANS
* DRILL & GROUT DOWELS AS SHOWN, 450 MINIMUM DEPTH OF GROUTING



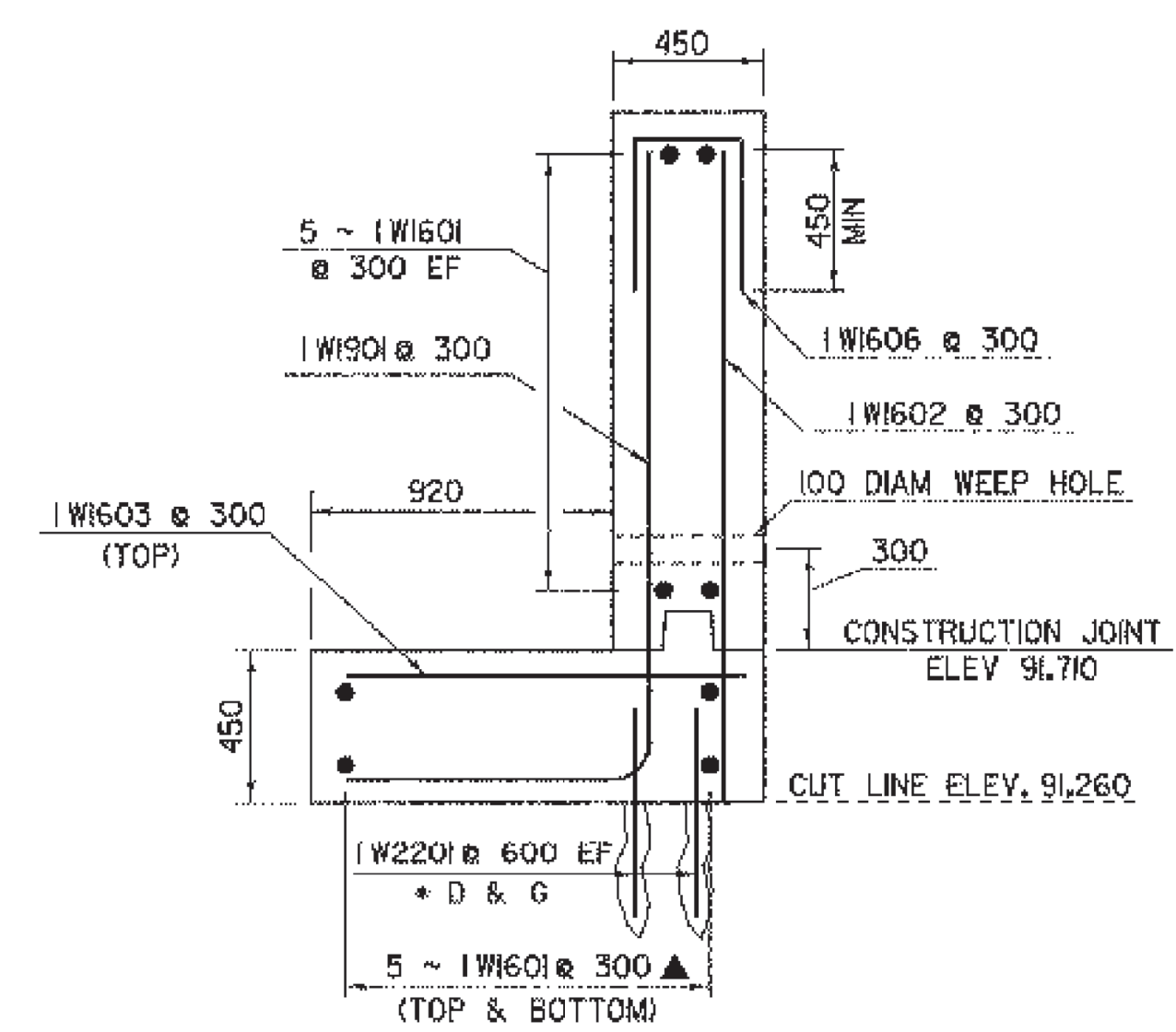
CORNER DETAIL WINGWALL NO. 1
SCALE 1/20



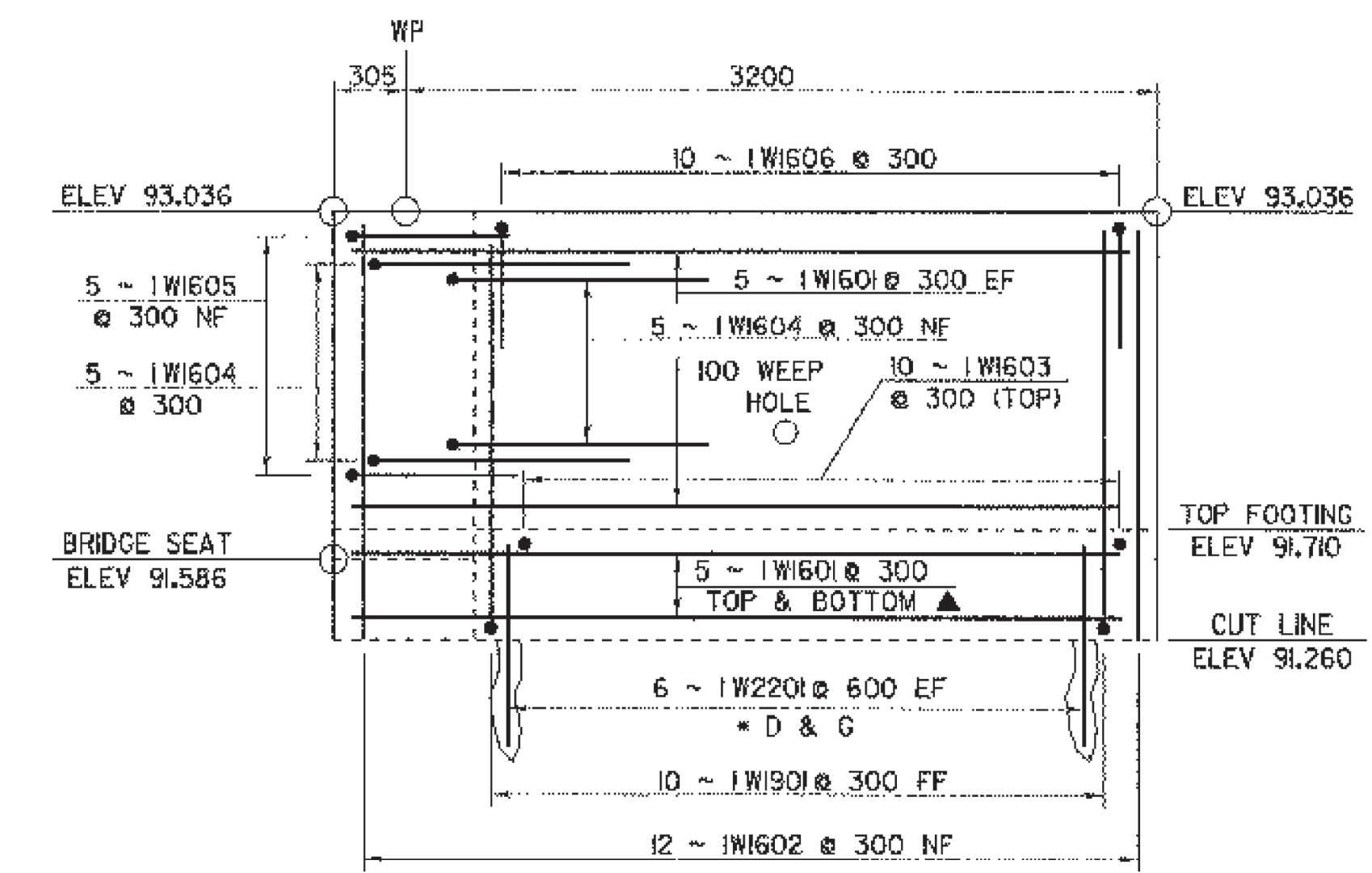
WINGWALL NO. 2 SECTION A-A
SCALE 1/25



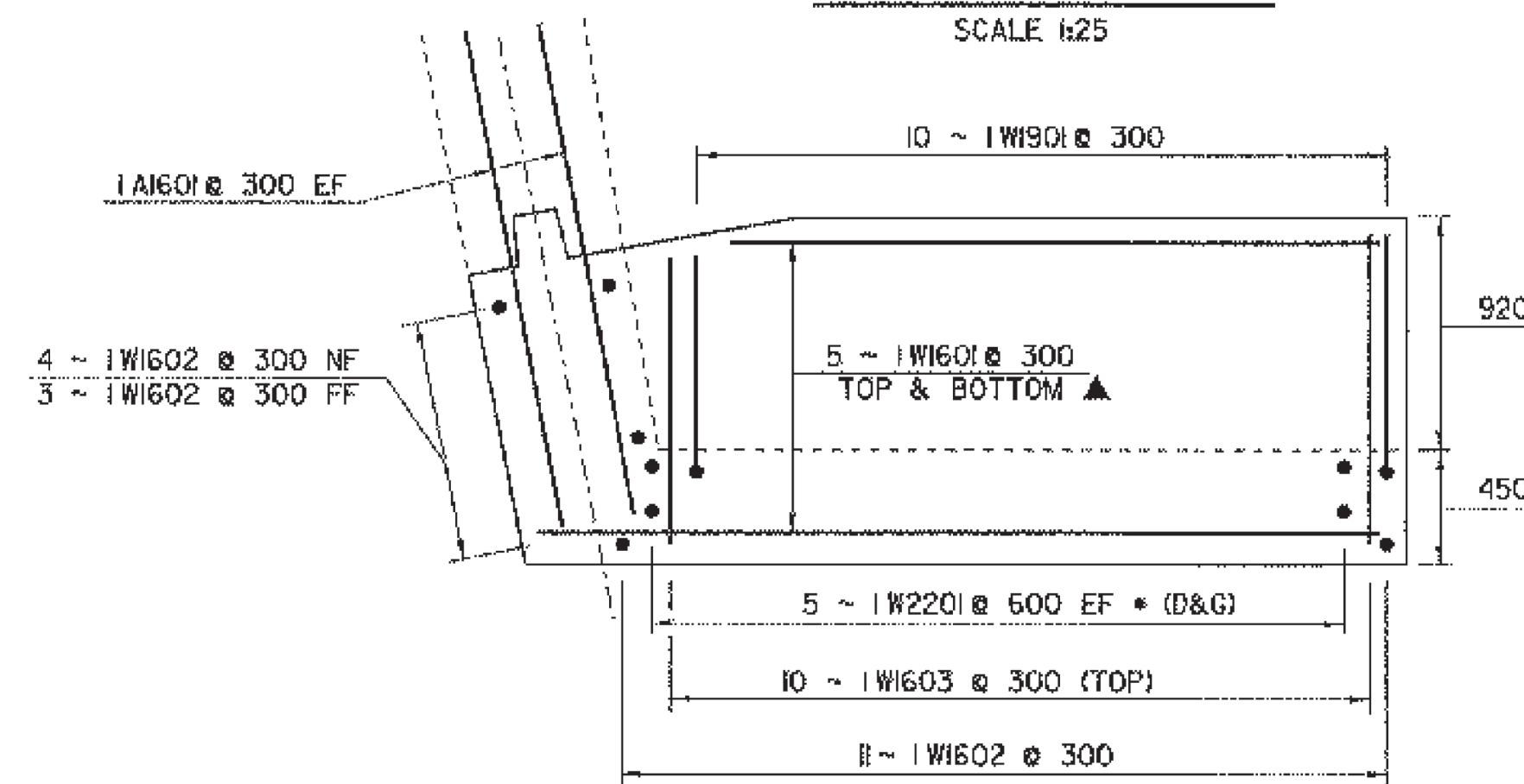
SCORE MARK DETAIL
(NTS)



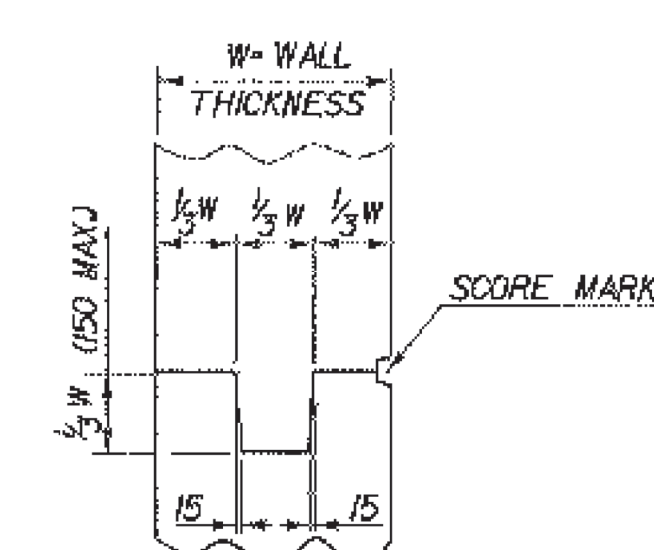
WINGWALL NO. 1 TYPICAL SECTION
SCALE 1/20



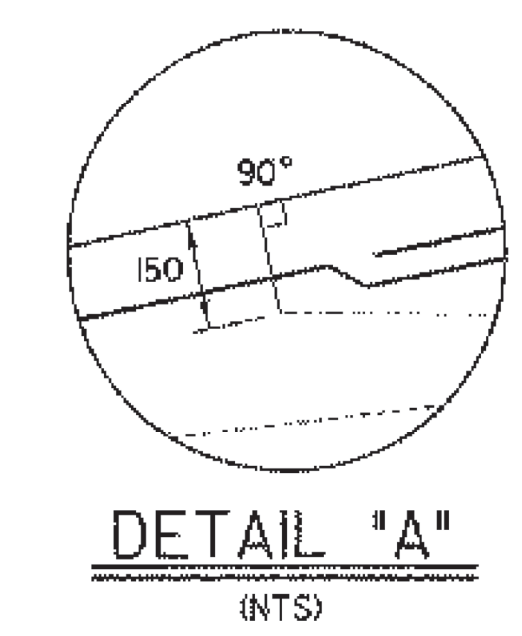
WINGWALL NO. 1
SCALE 1/25



WINGWALL NO. 1 FOOTING
SCALE 1/25

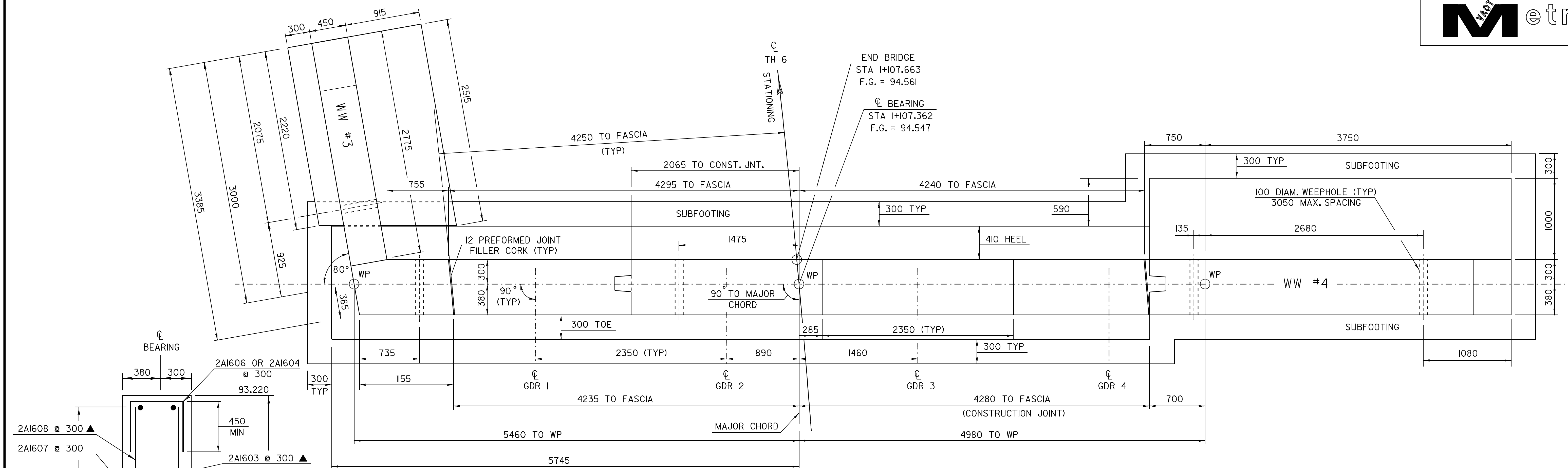


TYPICAL CONCRETE CONSTRUCTION JOINT
(NTS)



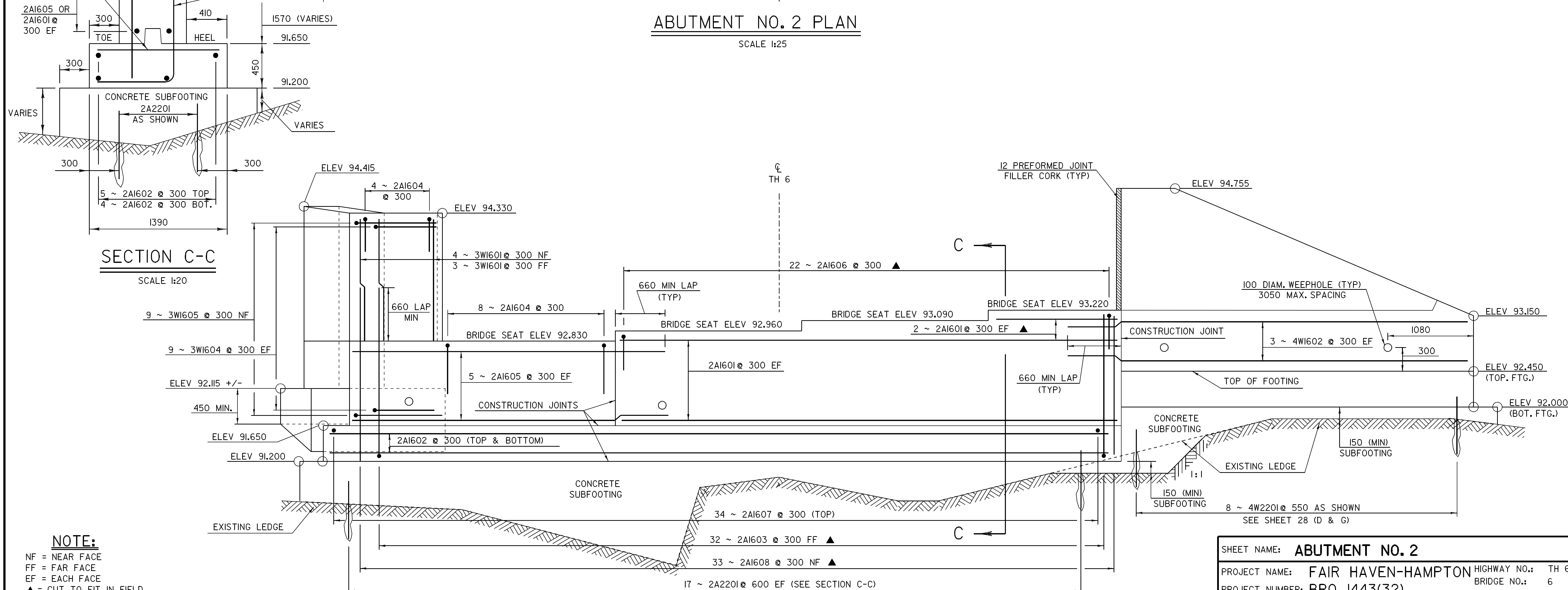
DETAIL 'A'
(NTS)

SHEET NAME: WINGWALLS 1 & 2 DETAILS	
PROJECT NAME: FAIR HAVEN-HAMPTON HIGHWAY NO. 1 TH 6	BRIDGE NO. 6
PROJECT NUMBER: BRO 1443(32)	OVER: POULTNEY RIVER
FILE NAME: /s1r1/93j021/sj021sub2.dgn	PLOT DATE: 23-MAR-2005
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: D. BONNEAU
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021ord.1
BRIDGE SHEET NUMBER:	SHEET 26 OF 53



ABUTMENT NO. 2 PLAN

SCALE 1:25



ABUTMENT NO. 2 ELEVATION

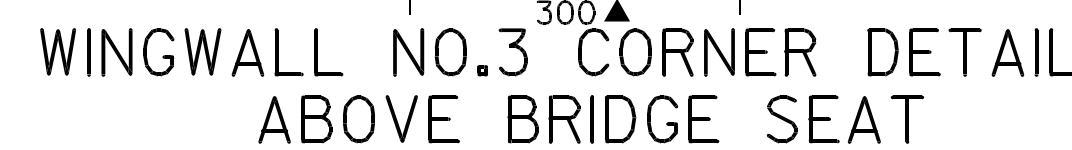
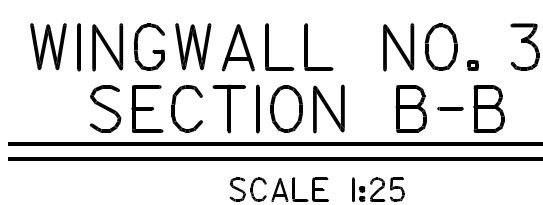
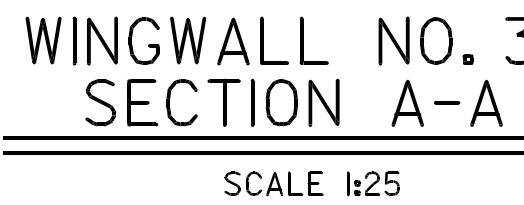
SCALE 1:25

NOTE:

NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
80 CLEAR UNLESS OTHERWISE SPECIFIED ON THE PLANS
** DRILL & GROUT DOWELS AS SHOWN.
450 MINIMUM DEPTH OF GROUTING

SHEET NAME: ABUTMENT NO. 2	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /s1r1/93j021/sj021sub2.dgn	PLOT DATE: 29-MAR-2005
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: D.BONNEAU
DESIGNED BY: C.MEUNIER	IPARM NAME: sj021ab2.1
BRIDGE SHEET NUMBER:	SHEET 27 OF 53

REV: 5/14/03



NF = NEAR FACE
 FF = FAR FACE
 EF = EACH FACE
 ▲ = CUT TO FIT IN FIELD
 80 CLEAR UNLESS OTHERWISE
 SPECIFIED ON THE PLANS
 * DRILL & GROUT DOWELS AS SHOWN
 450 MINIMUM DEPTH OF GROUTING

PLOT DATE: 29-MAR-2005
DRAWN BY: D. BONNEAU
IPARM NAME: sj02lcrdl.i
SHEET 28 OF 53

REV: 5/14/03

~ NOTES ~

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING 55M SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31M (ASTM A 615M-SI). ALL BARS SHALL BE GRADE 420, UNLESS OTHERWISE DESIGNATED.
2. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
5. "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
8. ▲ DENOTES BARS TO BE CUT IN FIELD.
9. * DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
10. Ⓞ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
11. "E" IN PREFIX DENOTES EPOXY COATED REINFORCING STEEL.

ASTM STANDARD REINFORCING BARS				
BAR SIZE	NOMINAL MASS (Kg/m)	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER (mm)	CROSS SECTIONAL AREA (mm²)	PERIMETER (mm)
#10	0.560	9.5	71	29.84
#13	0.994	12.7	129	39.90
#16	1.552	15.9	199	49.95
#19	2.235	19.1	284	60.00
#22	3.042	22.2	387	69.74
#25	3.973	25.4	510	79.80
#29	5.060	28.7	645	90.16
#32	6.404	32.3	819	101.47
#36	7.907	35.8	1006	112.47
#43	11.380	43.0	1452	135.09
#57	20.240	57.3	2581	180.01

PROJECT NAME: **Fair Haven - Hampton**

PROJECT NUMBER: **BRO 1443(32)**

FILE NAME: **93J021**

PROJECT LEADER: **G. Rogers**

DESIGNED BY: **C. Maunier**

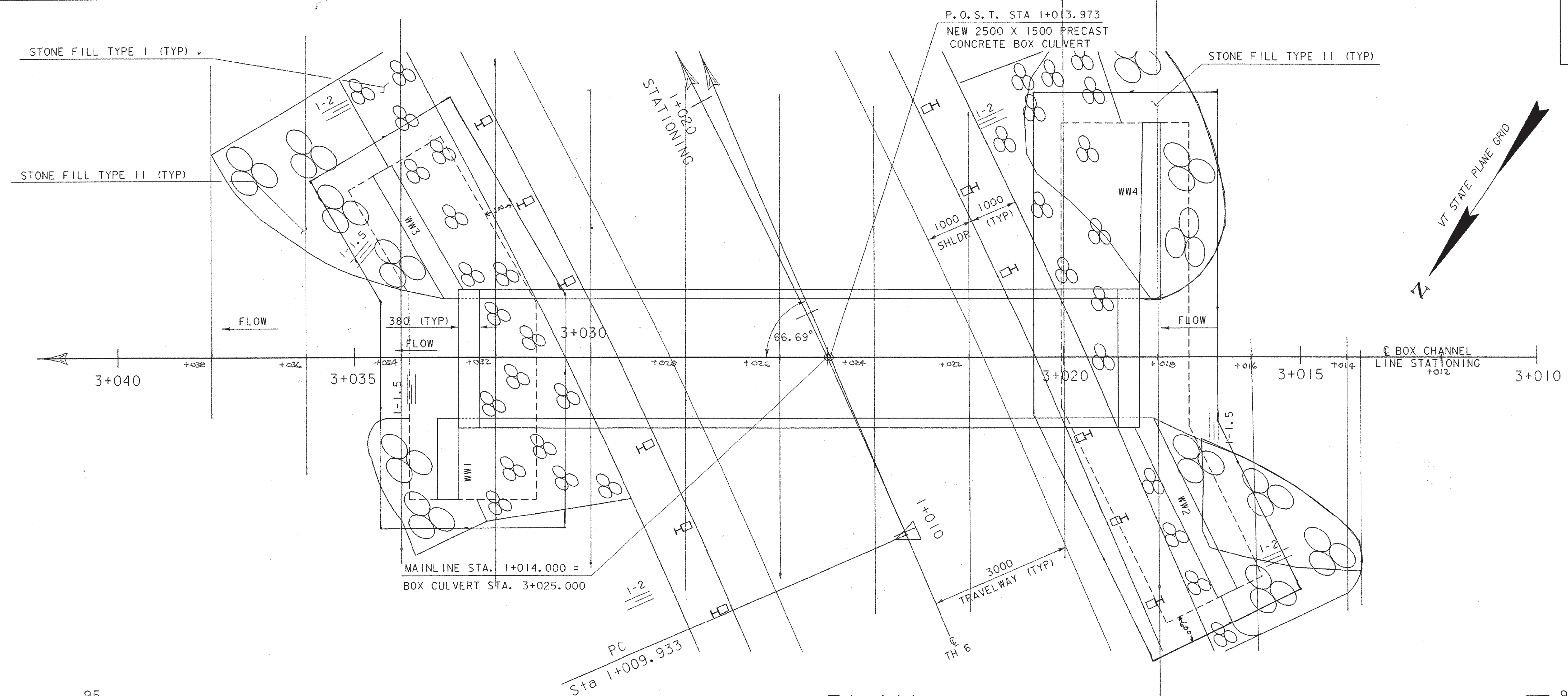
REINFORCING STEEL SCHEDULE SHEET #1

PLOT DATE: **12/19/2002**

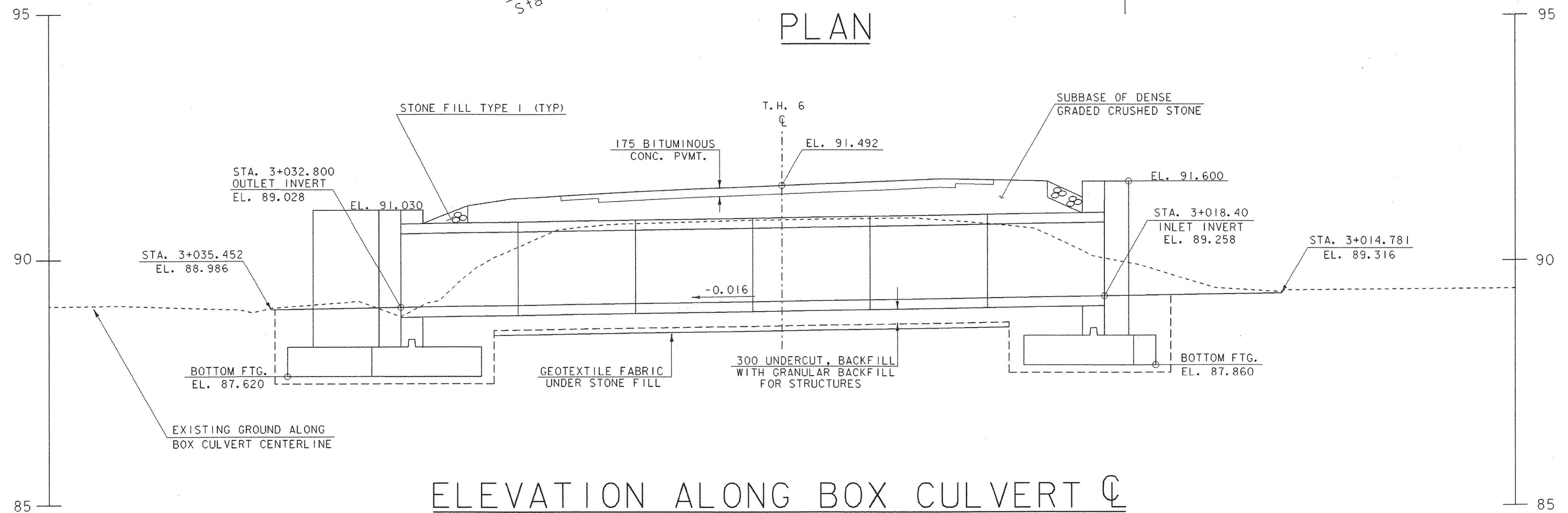
DRAWN BY: **T. Husk**

CHECKED BY: **C. Maunier**

SHEET **29** OF **53**

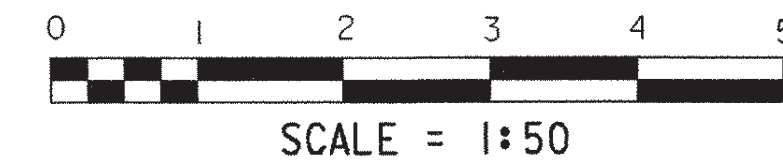


PLAN

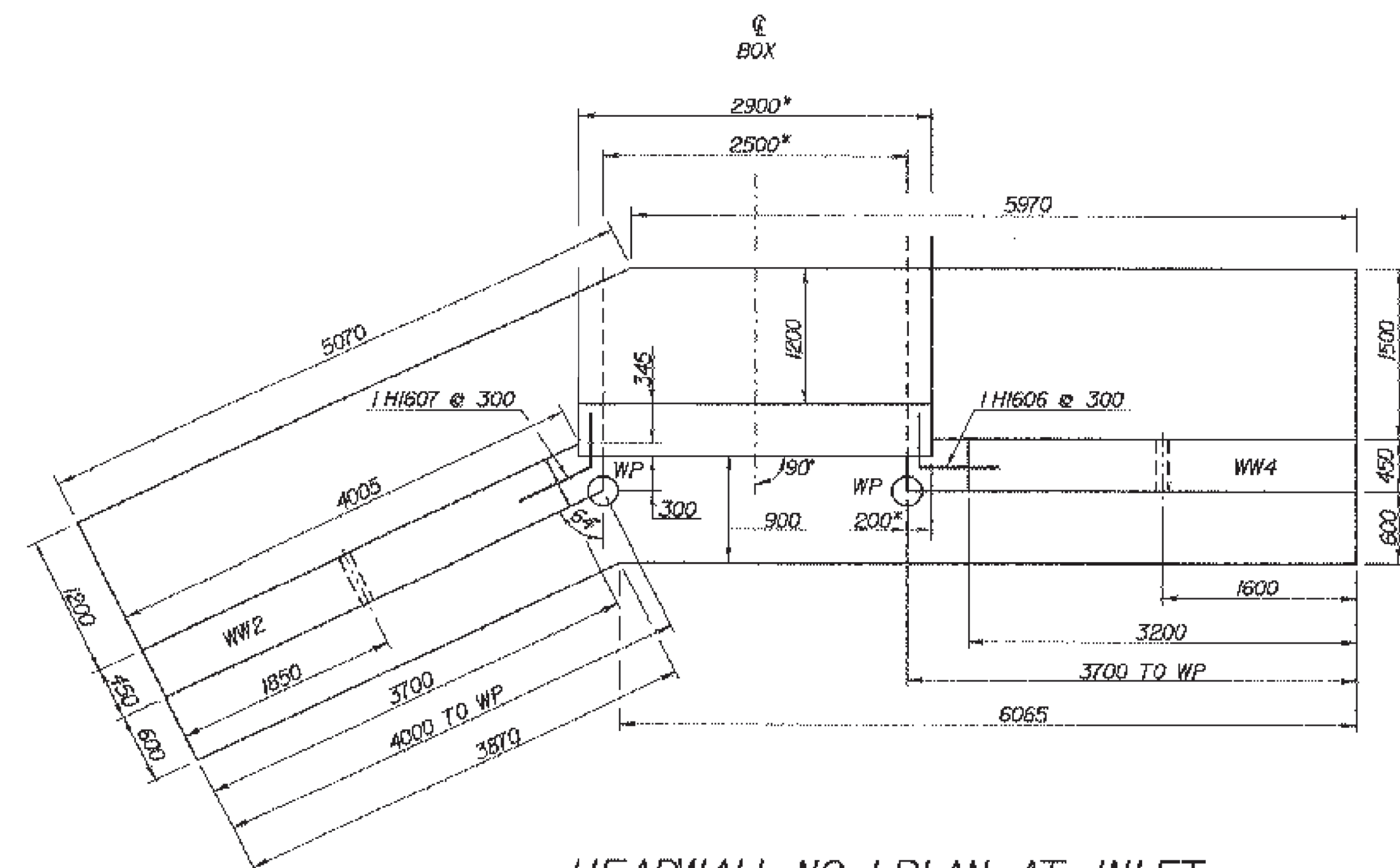


ELEVATION ALONG BOX CULVERT C

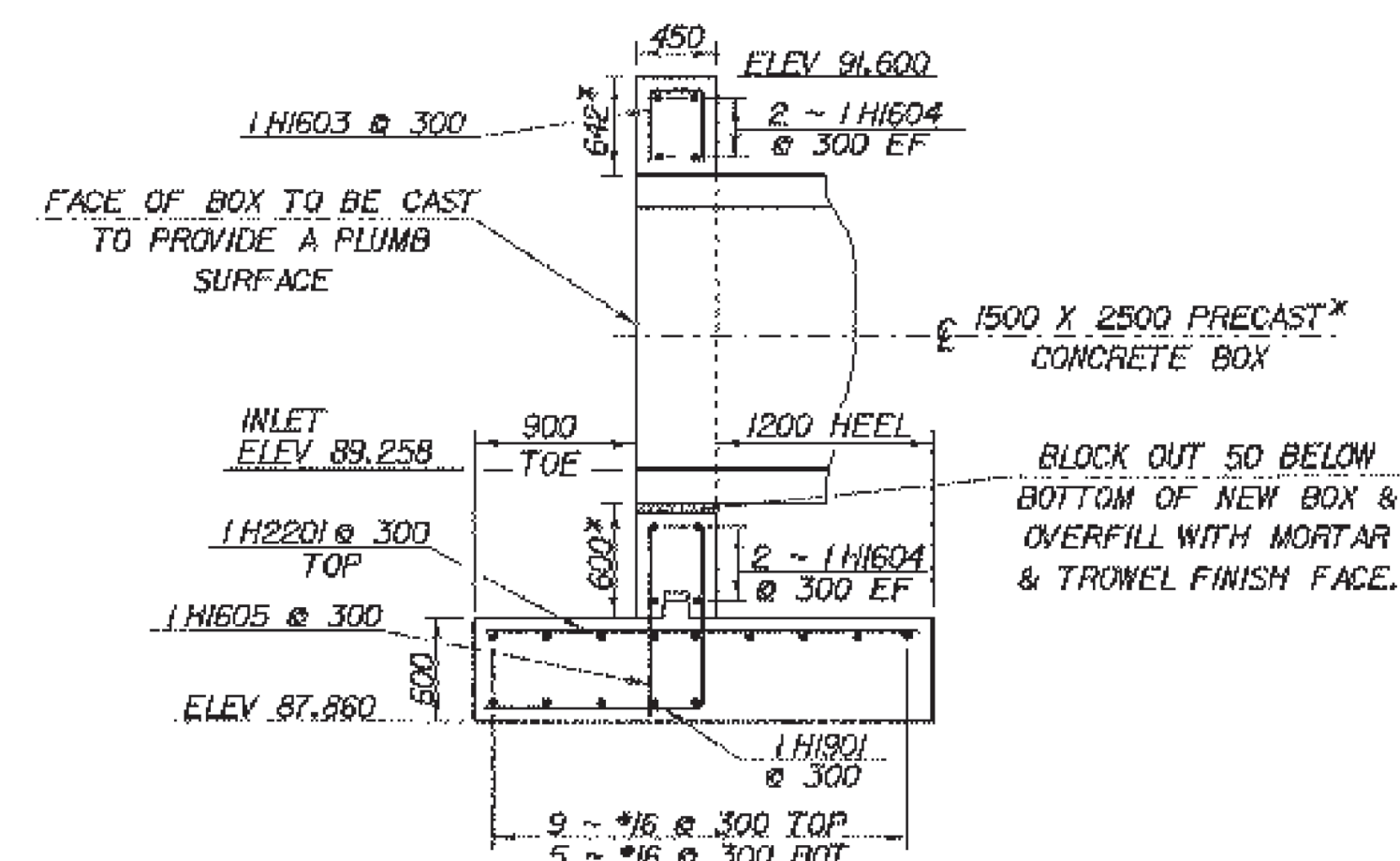
DATUM	
VERTICAL	_____
HORIZONTAL	_____



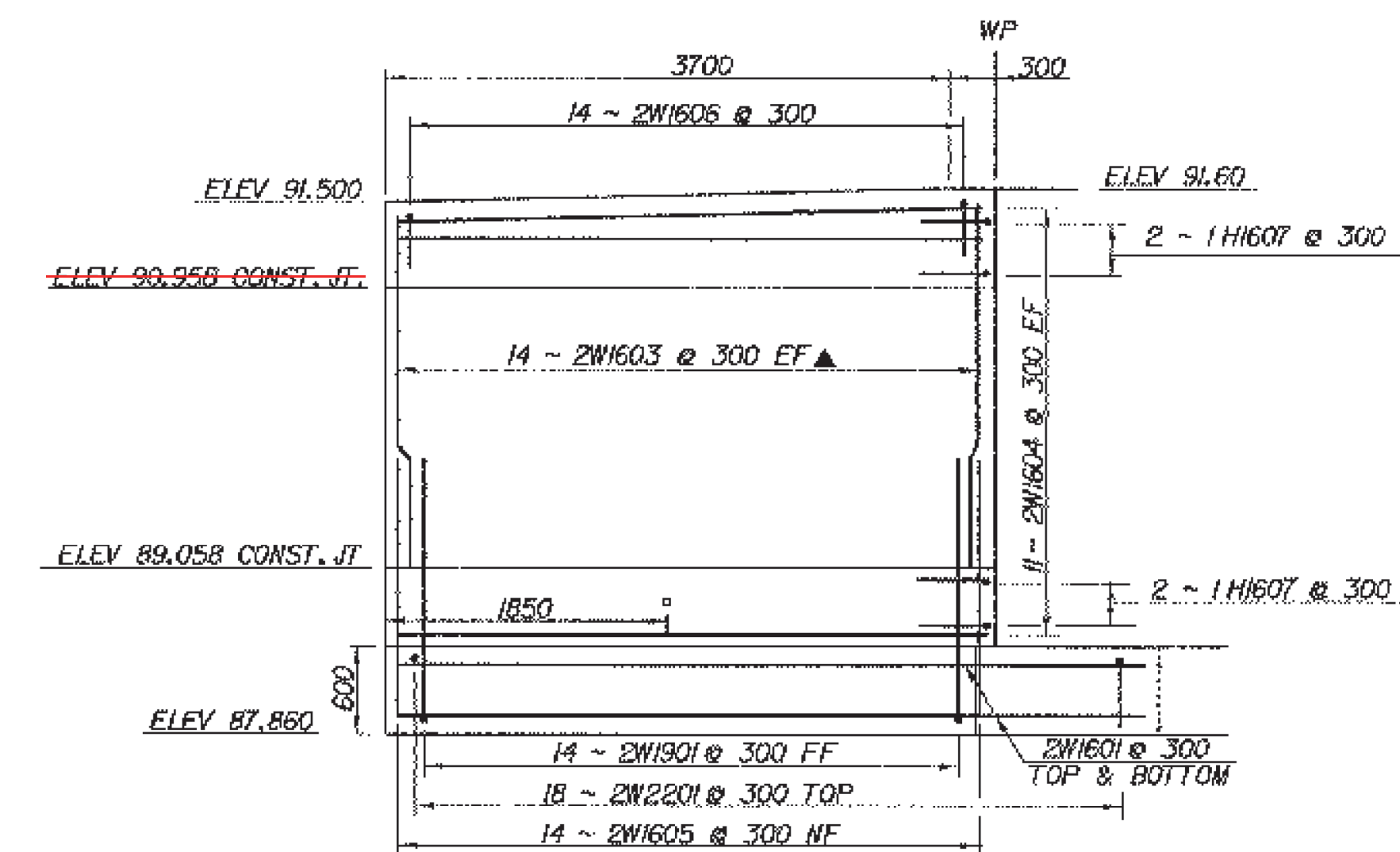
SHEET NAME: BOX PLAN AND ELEVATION SHEET	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /str1/93j021/boxpe.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021bpe.i
BRIDGE SHEET NUMBER:	SHEET 31 OF 53



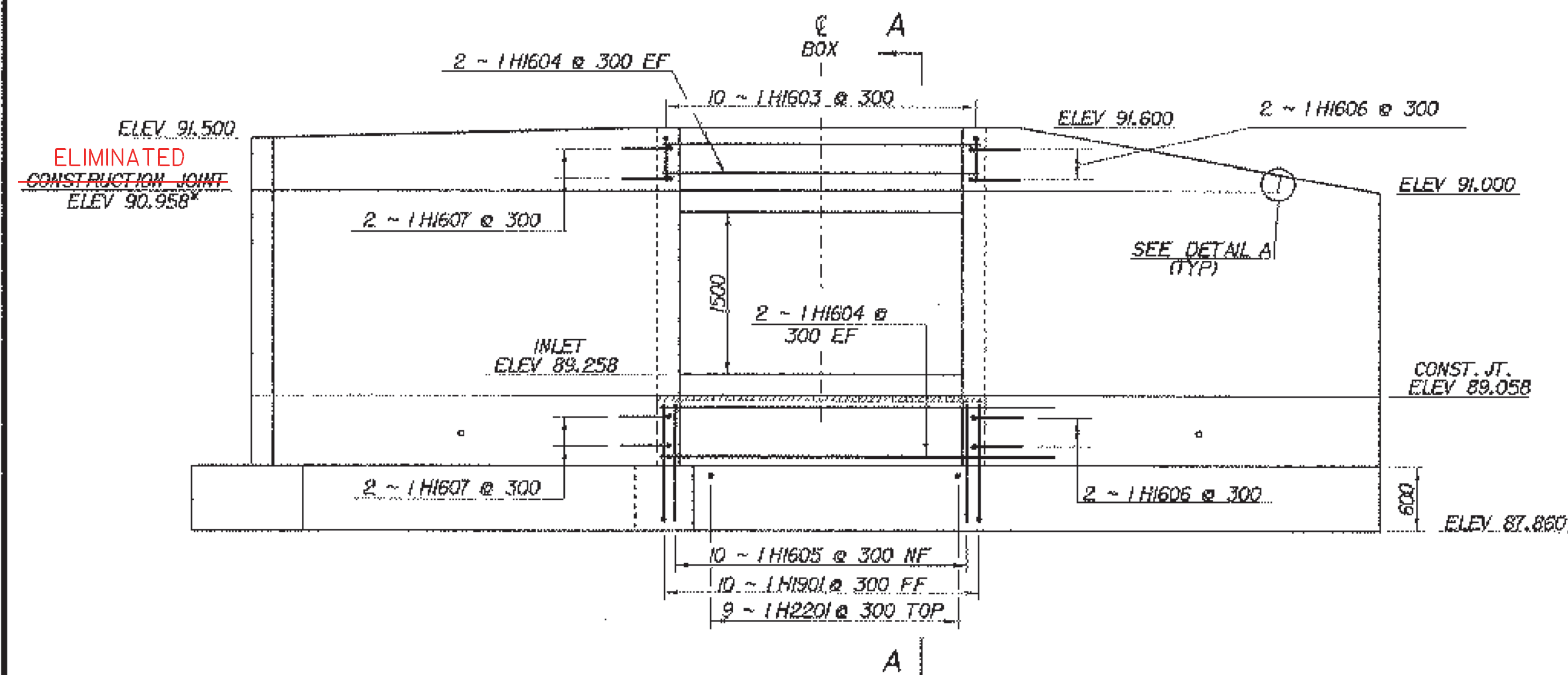
HEADWALL NO. 1 PLAN AT INLET
SCALE - 1:40



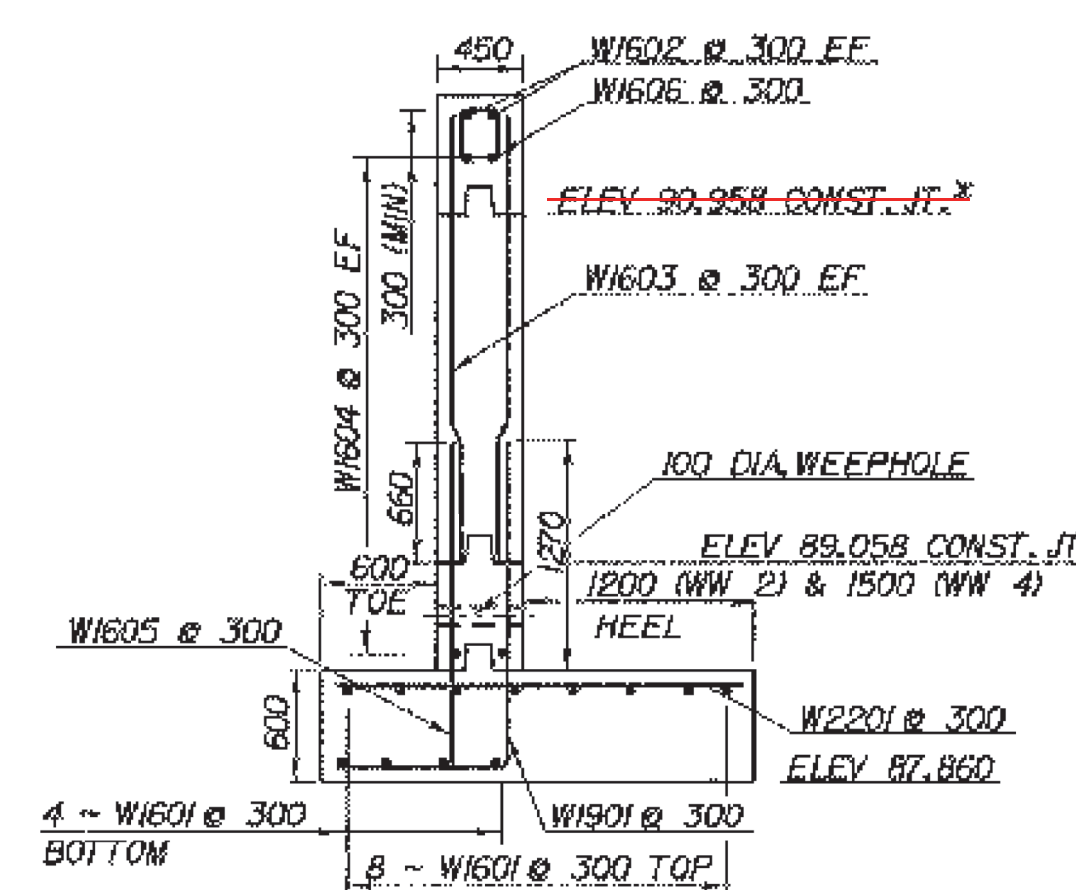
INLET HEADWALL SECTION A-A
SCALE - 1:40



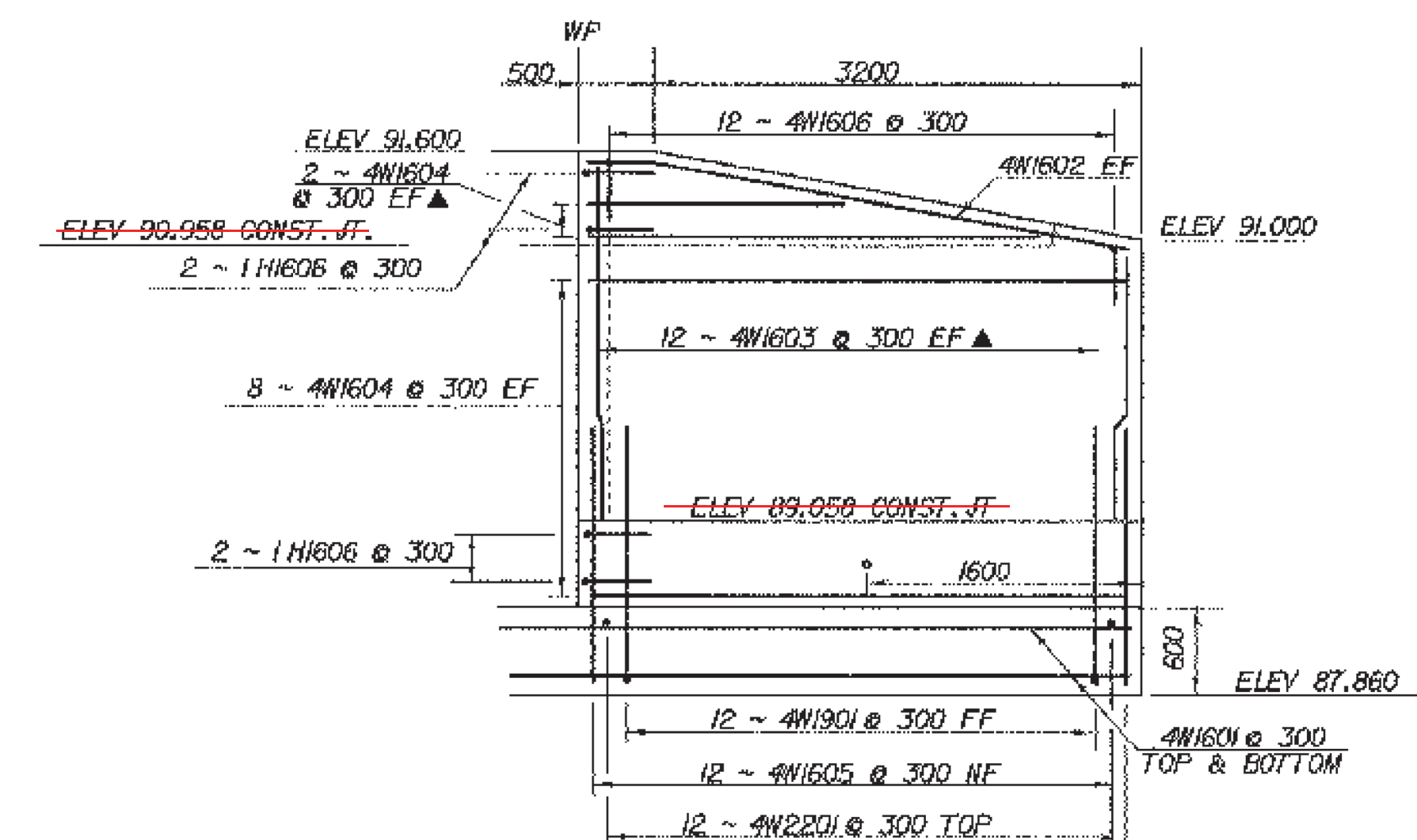
WINGWALL NO. 2 ELEVATION
SCALE - 1:40



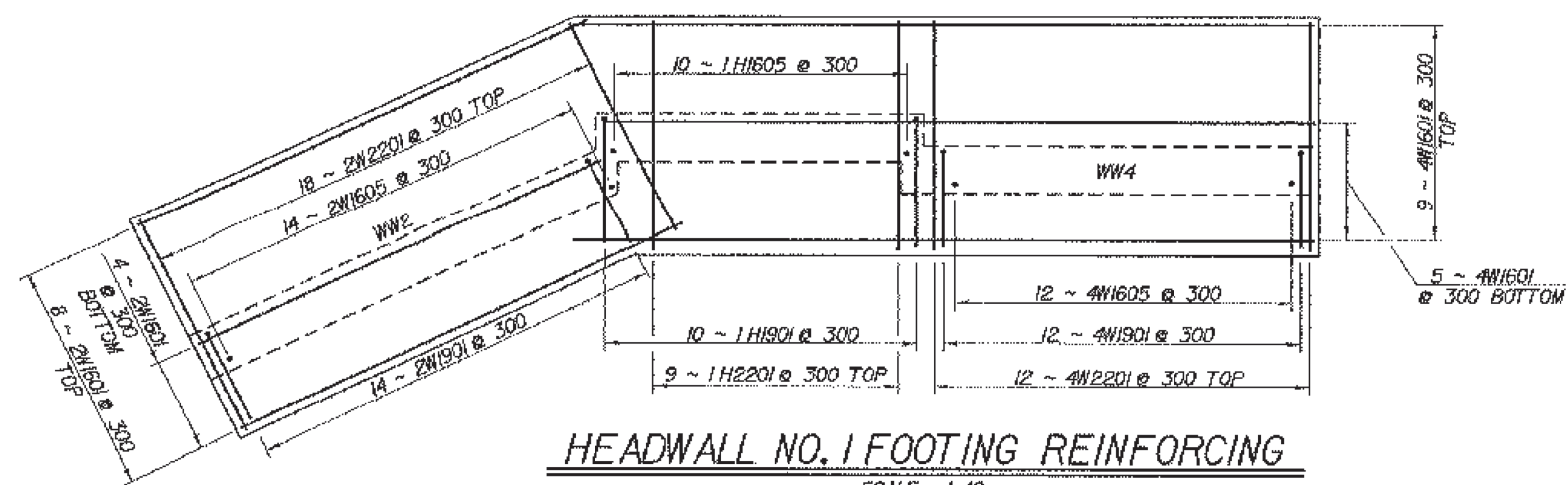
HEADWALL NO. 1 ELEVATION
SCALE - 1:40



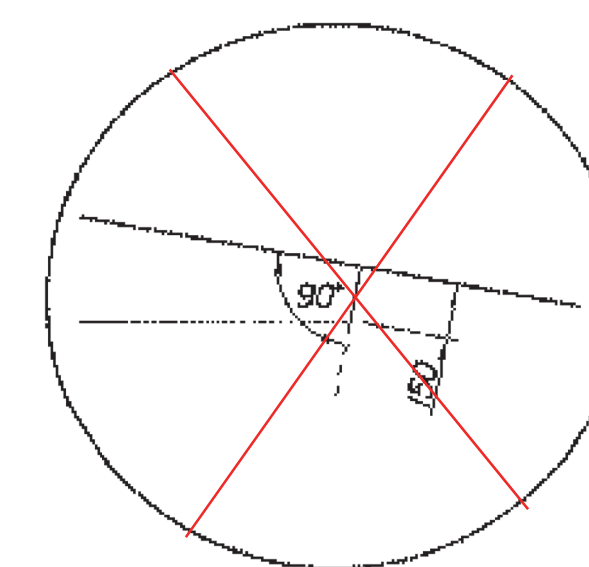
WINGWALL SECTION TYPICAL
SCALE - 1:40



WINGWALL NO. 4 ELEVATION
SCALE - 1:40



HEADWALL NO. 1 FOOTING REINFORCING
SCALE - 1:40



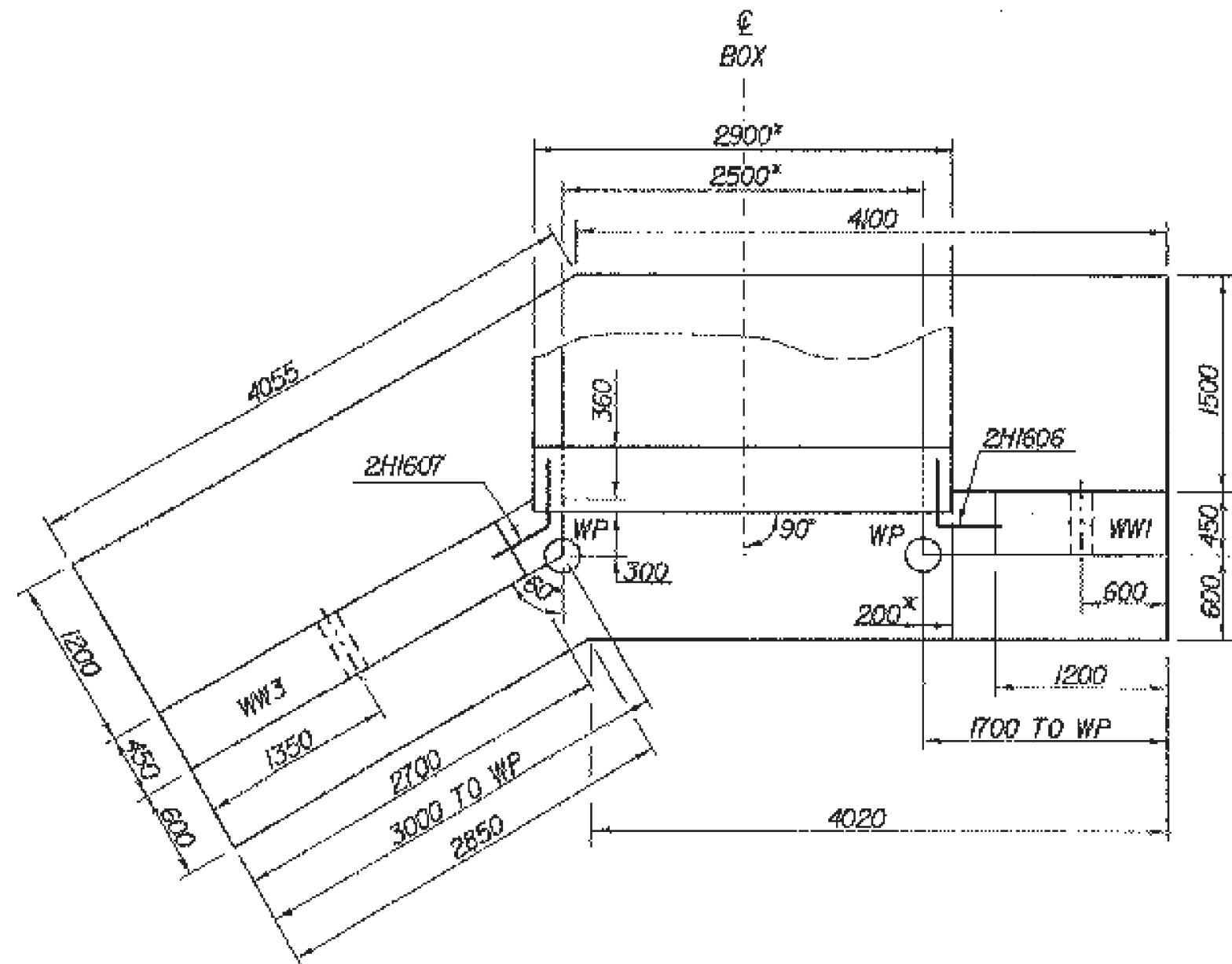
DETAIL A (TYP)
SCALE - 1:20

NOTE:

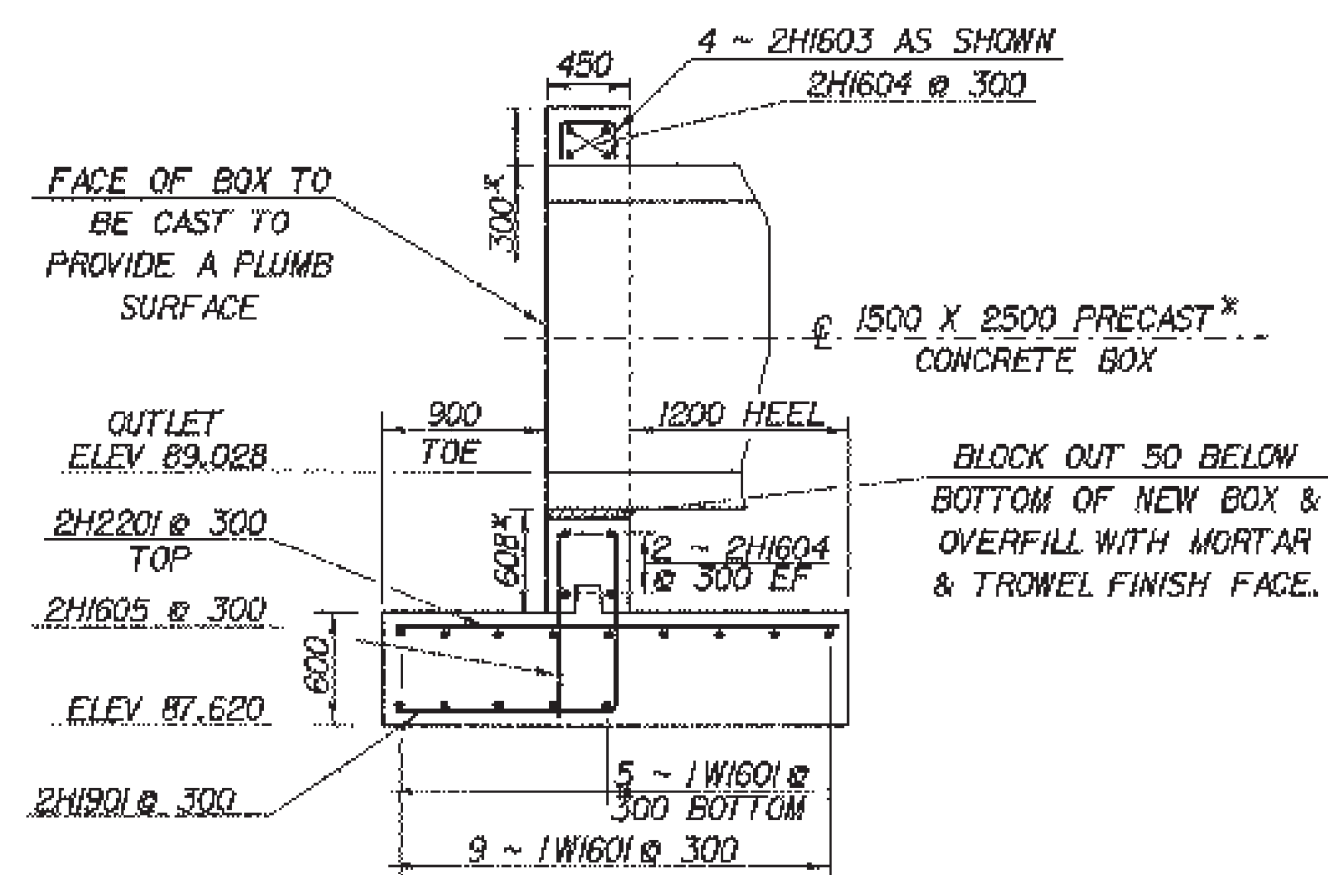
NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
80 CLR. UNLESS OTHERWISE
SPECIFIED ON THE PLANS.
3000 MAX WEEPHOLE SPACING

REVISED 14-MAR-03

SHEET NAME: HEADWALL NUMBER 1	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /srl/93j021/sj021box.dgn	PLOT DATE: 23-MAR-2005
PROJECT MANAGER: C.S. ROGERS	DRAWN BY: J.GILMORE
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021bxs.1
BRIDGE SHEET NUMBER:	SHEET 32 OF 53

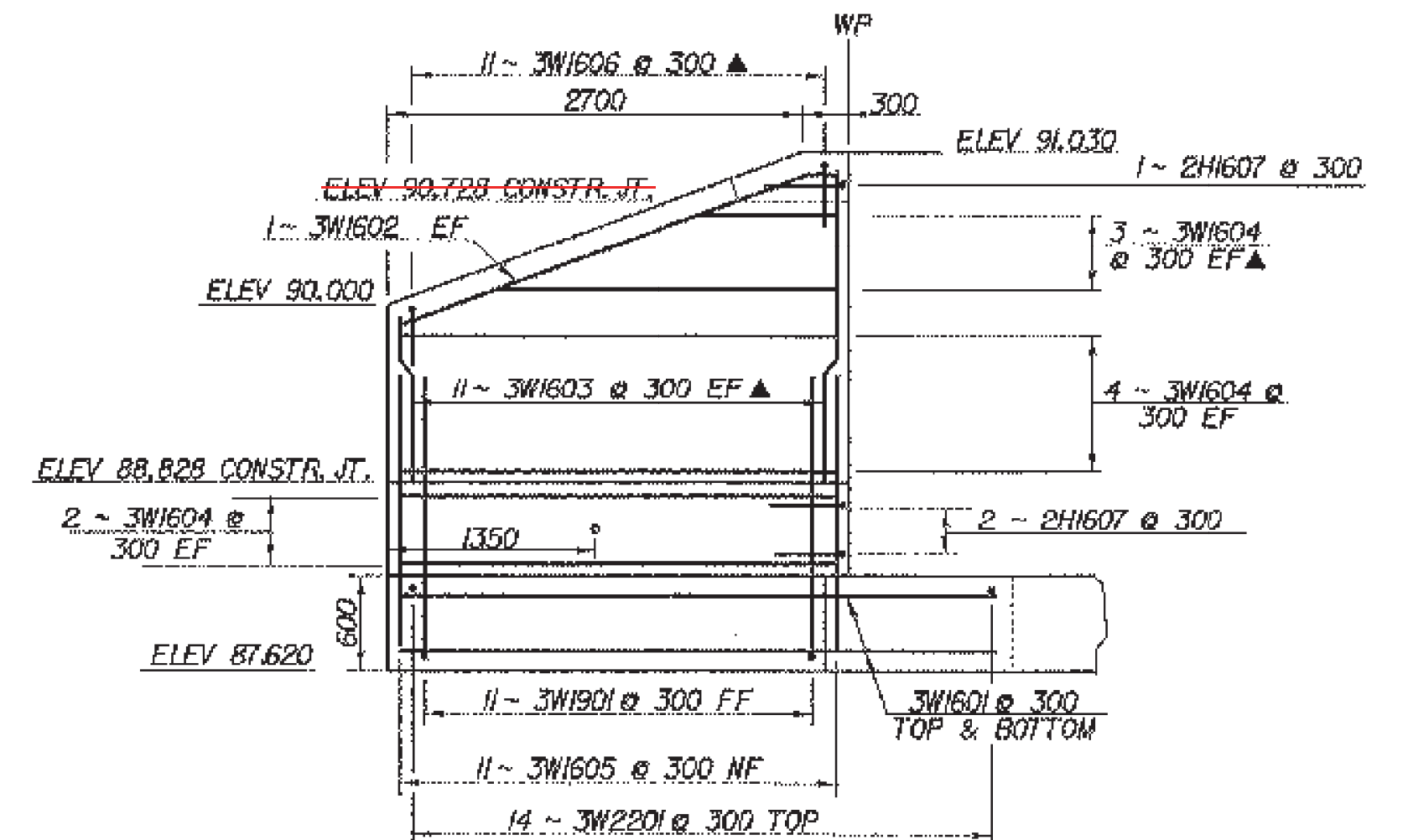


HEADWALL NO. 2 PLAN AT OUTLET

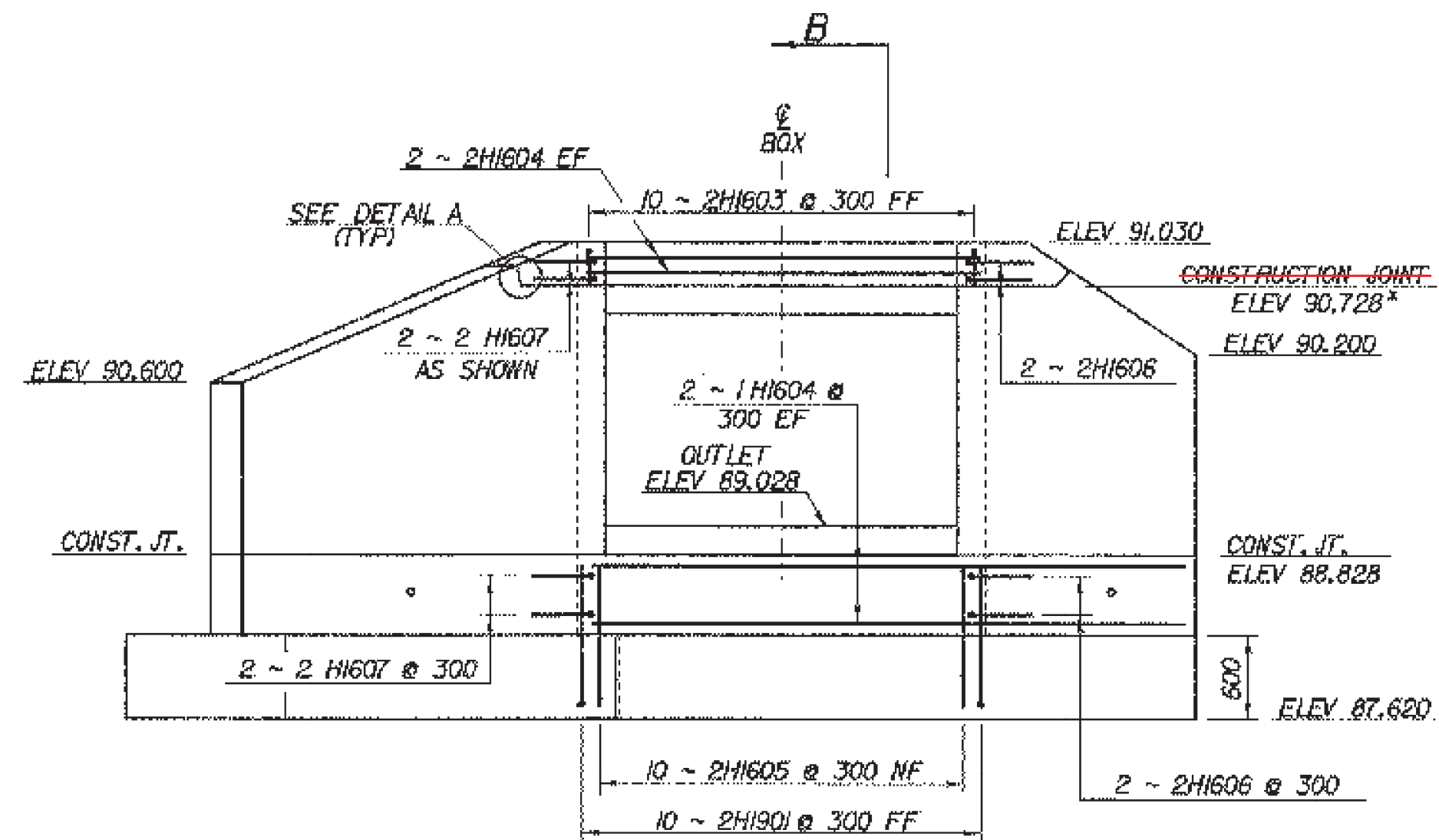


OUTLET HEADWALL SECTION B-B
SCALE = 1:40

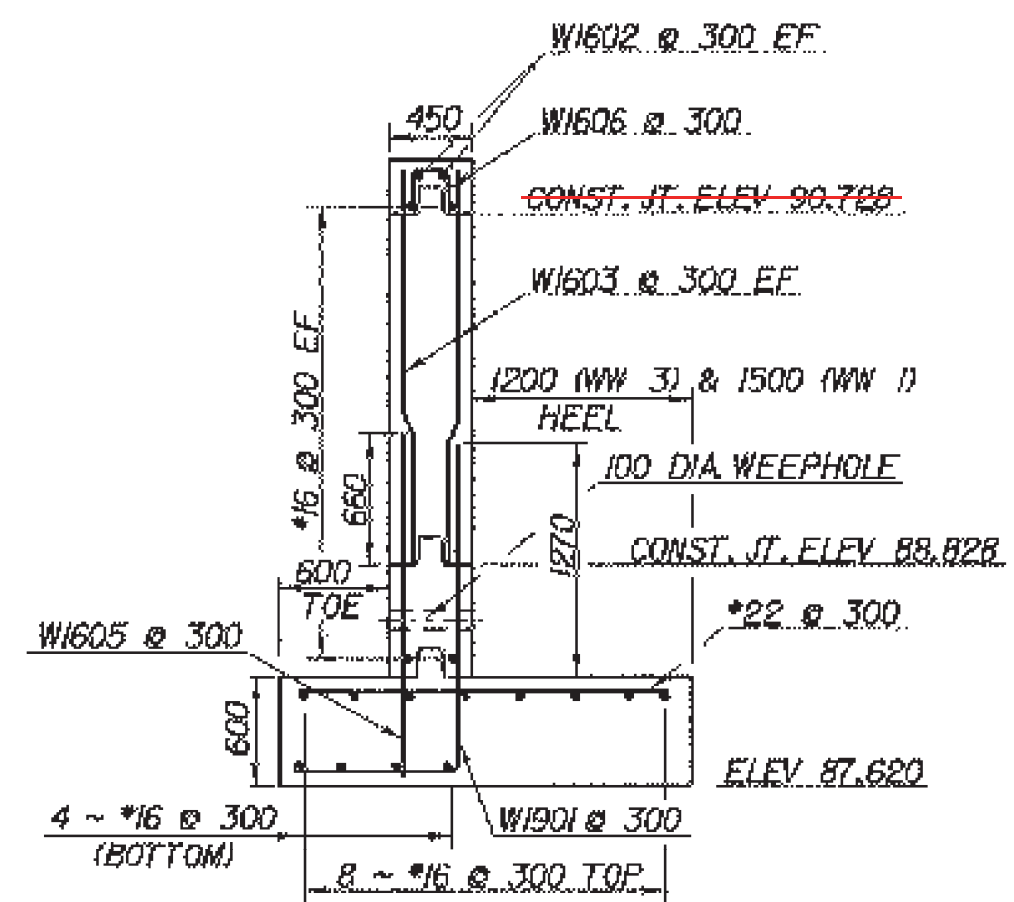
* DIMENSIONS SHOWN ARE FOR AN ASSUMED RC BOX WALL THICKNESS OF 200 mm. ACTUAL DIMENSIONS MAY VARY.



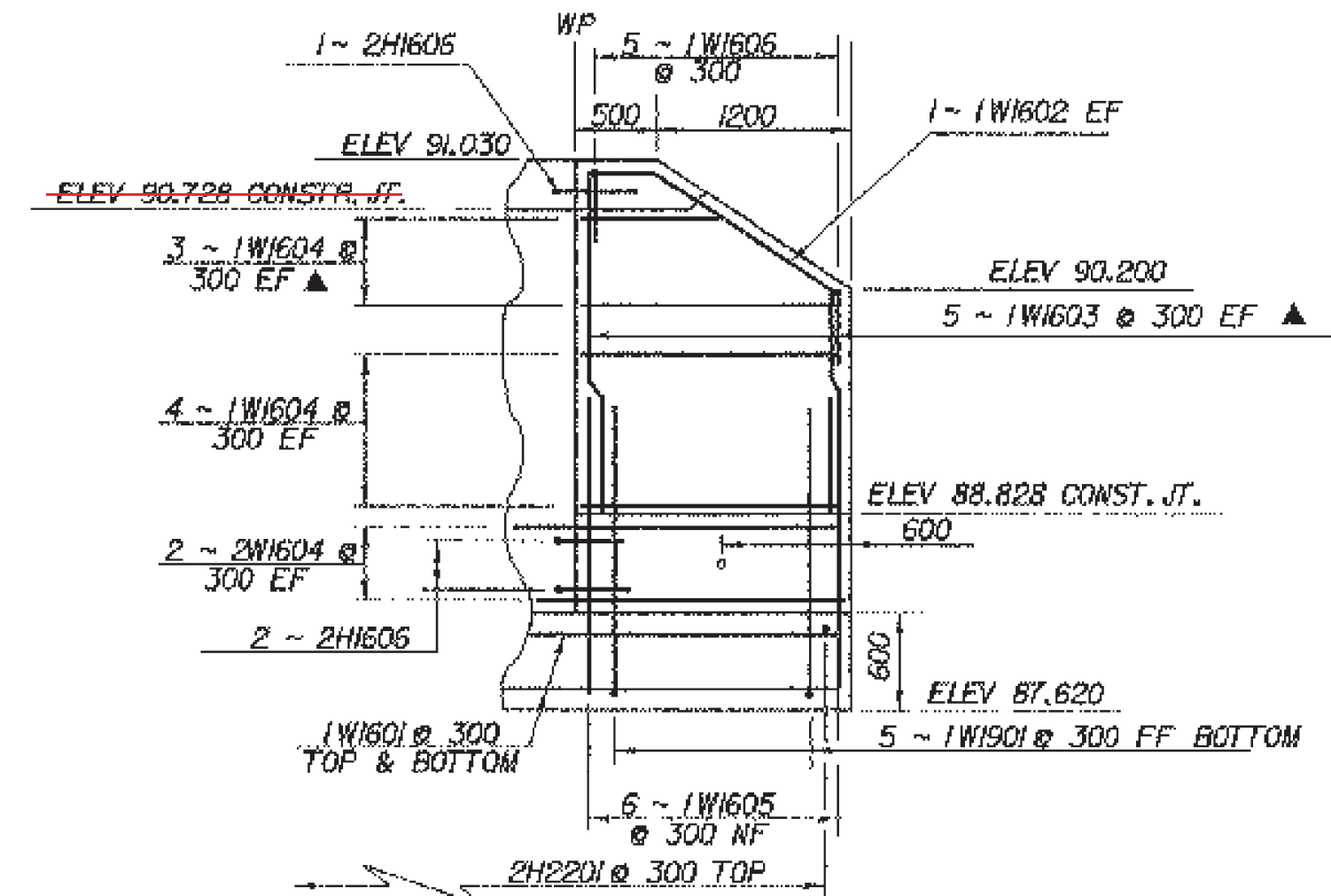
WINGWALL NO.3 ELEVATION
SCALE = 1/40



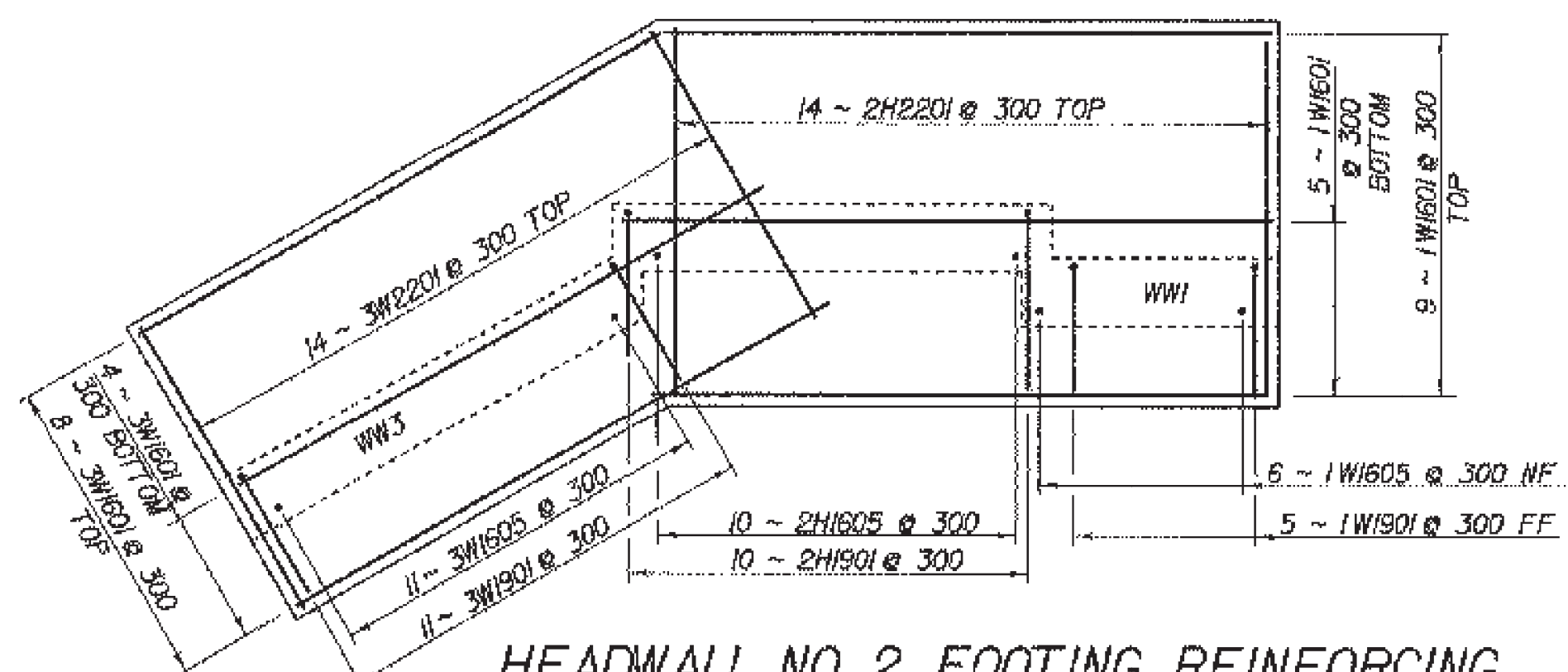
HEADWALL NO. 2 ELEVATION
SCALE = 1/40



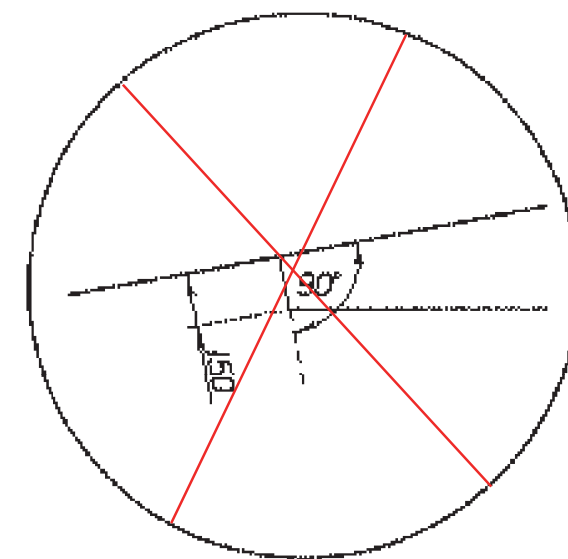
WINGWALL SECTION TYPICAL
SCALE = 1/2" = 1'-0"



WINGWALL NO. 1 ELEVATION
SCALE - 1/4" = 1'-0"



HEADWALL NO. 2 FOOTING REINFORCING



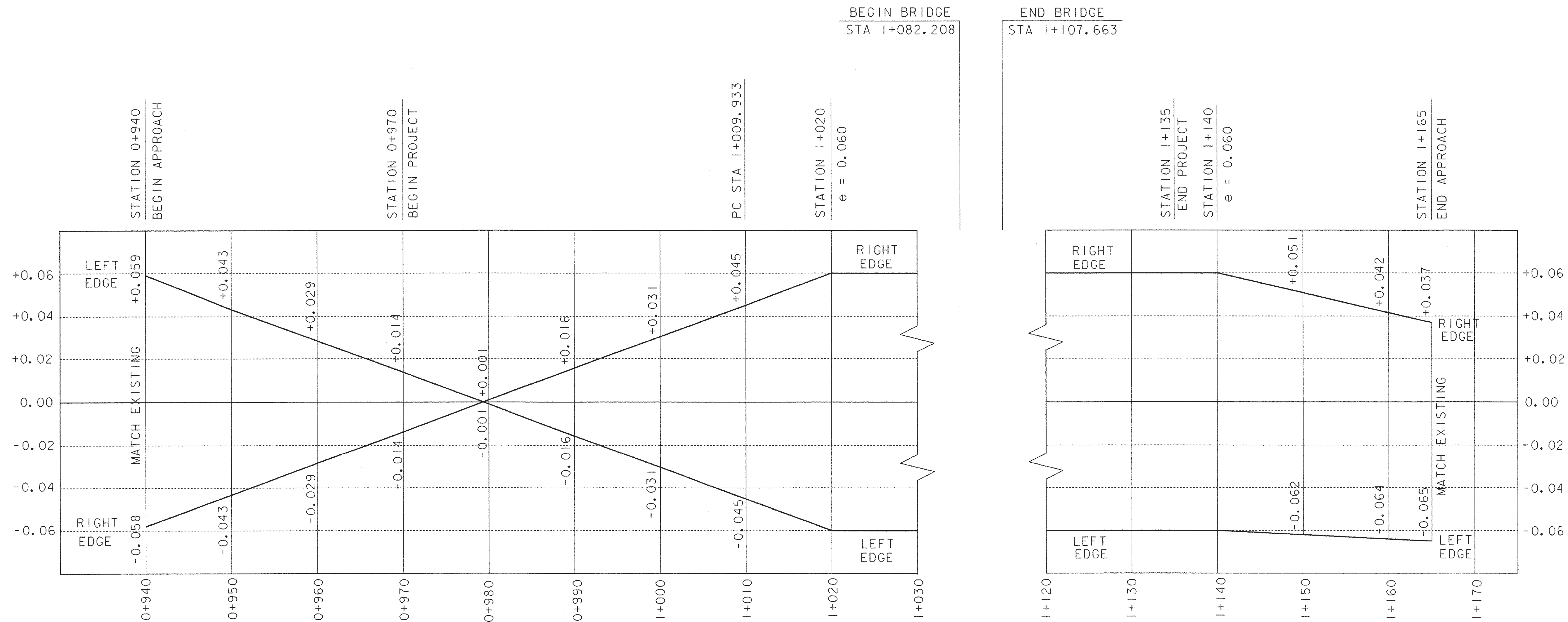
DETAIL A (TYP)
SCALE = 1:20

NOTE:

NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
80 CLR. UNLESS OTHERWISE
SPECIFIED ON THE PLANS.
3000 MAX WEEPHOLE SPACING

SHEET NAME: HEADWALL NUMBER 2	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /s/r1/93j02i/sj02ibox.dgn	PLOT DATE: 23-MAR-2005
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: J.GILMORE
DESIGNED BY: C. MEUNIER	IPARM NAME: sj02ibx9.1
BRIDGE SHEET NUMBER:	SHEET 33 OF 53

REVISÉ 14-MAR-03



Banking Diagram

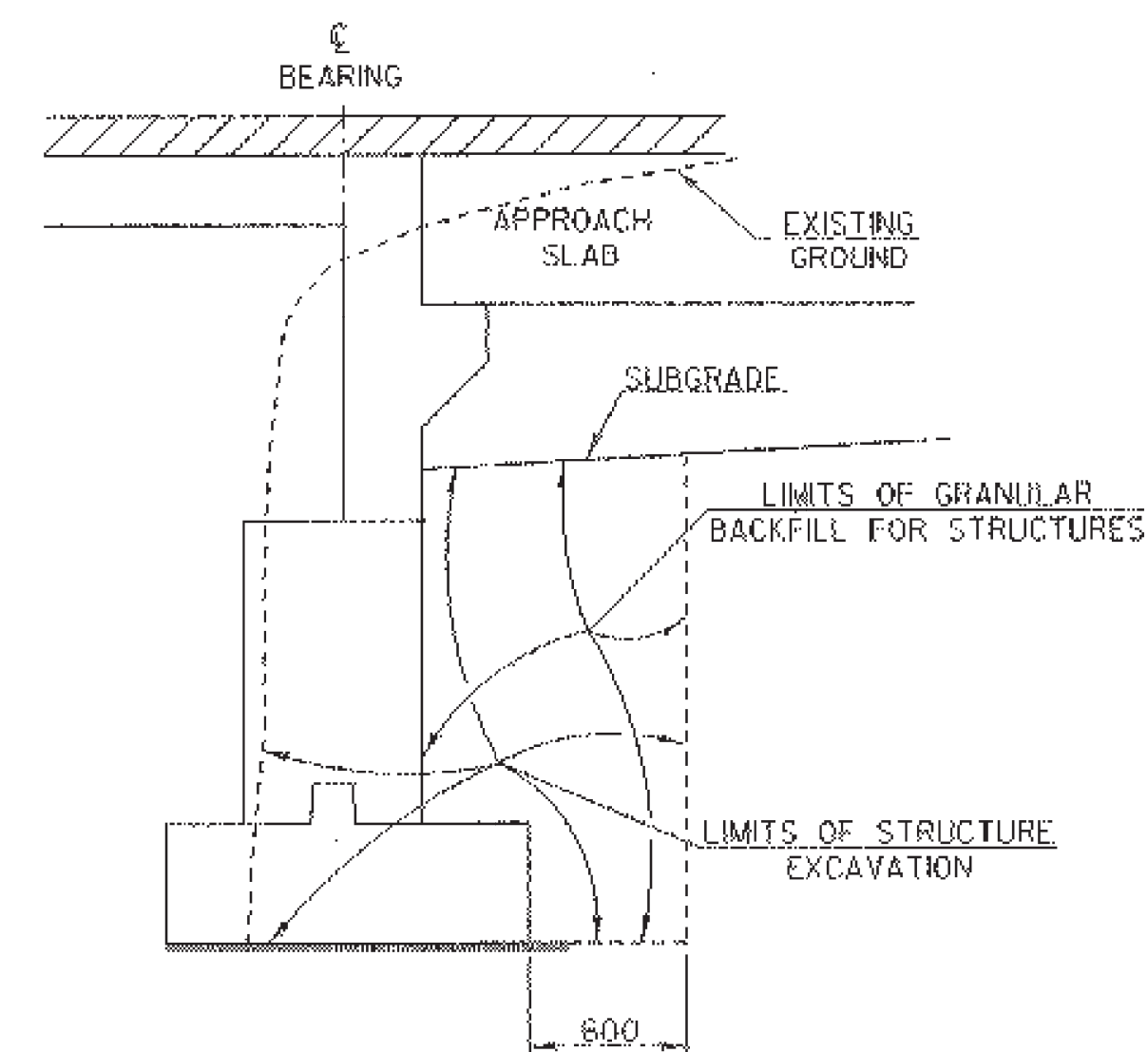
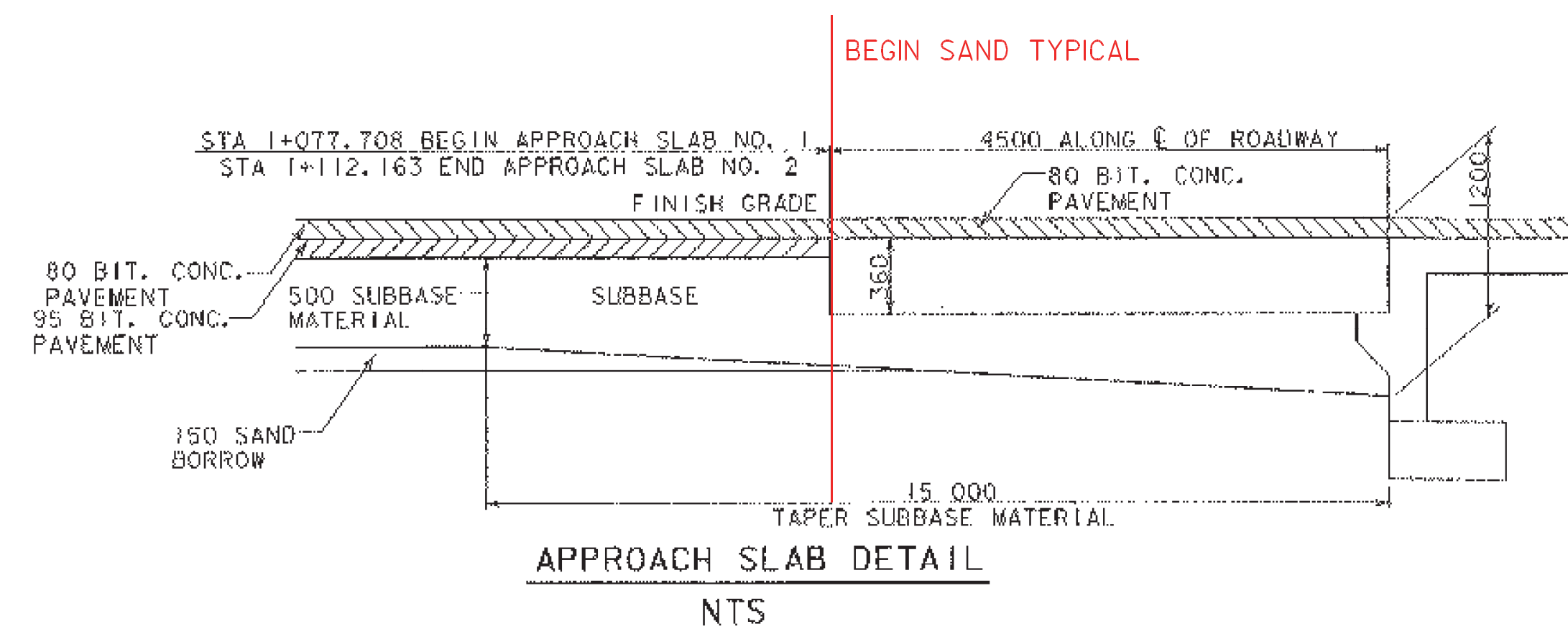
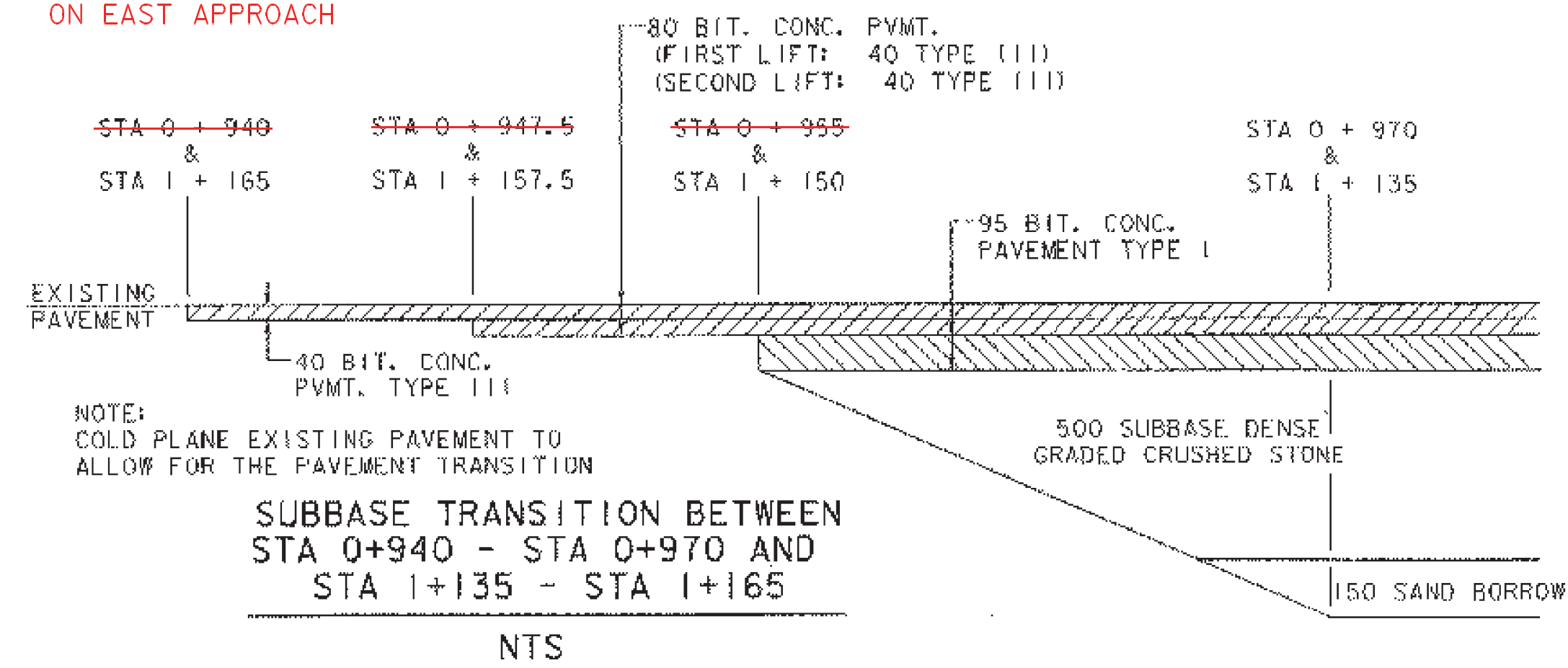
1:250 HORIZONTALLY
1:100 VERTICALLY

Design Criteria

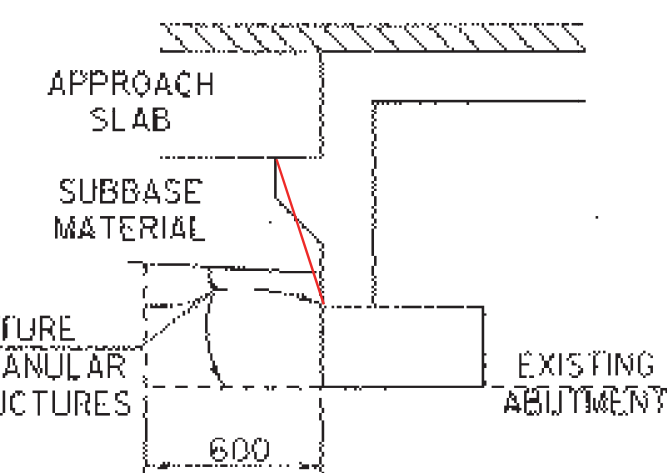
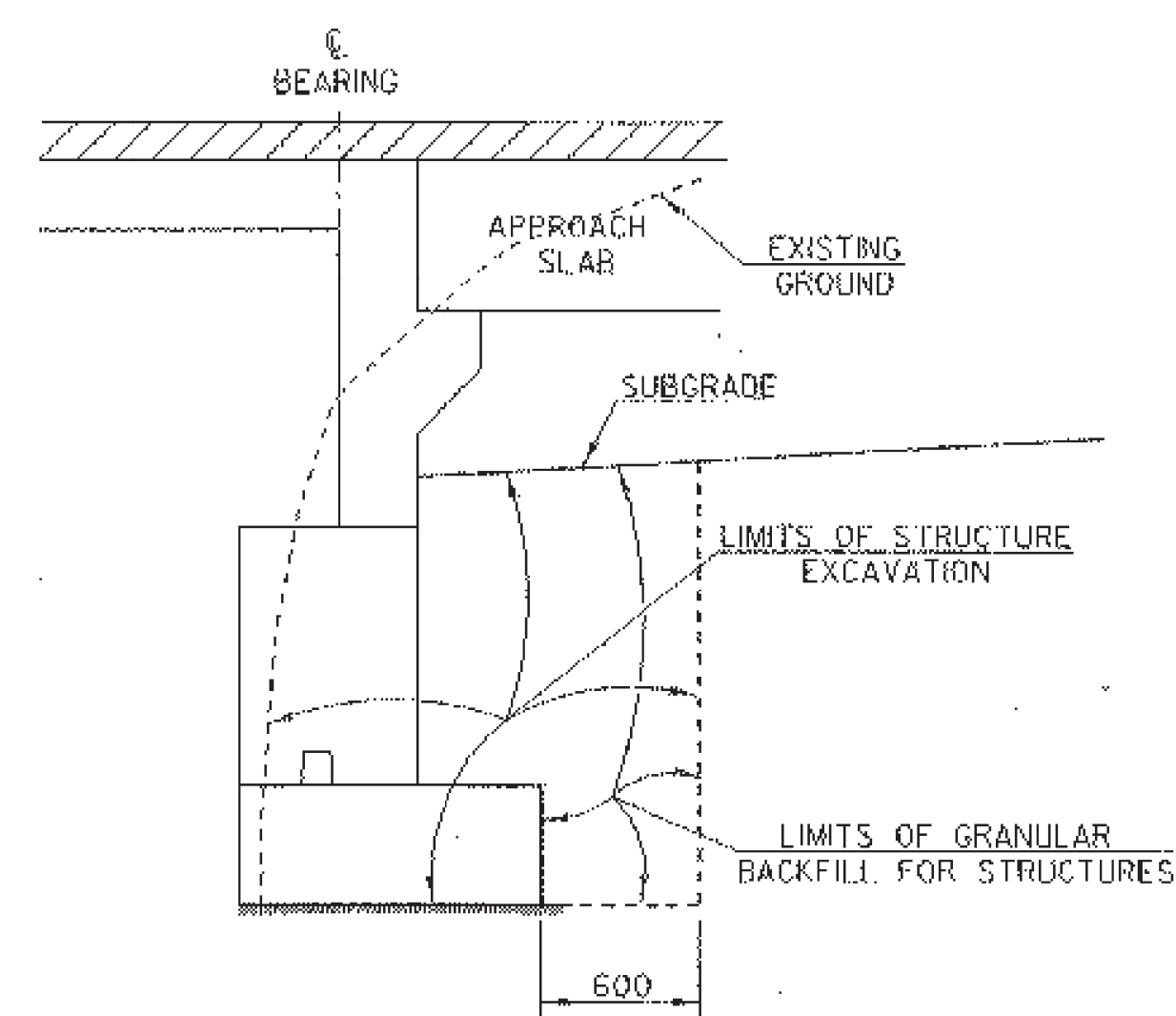
R = 138 m
e_{max} = 0.060
60 km/h (35 mph)

SHEET NAME: BANKING DIAGRAM	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /str1/93j021/sj021xs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021bd.1
BRIDGE SHEET NUMBER:	SHEET 35 OF 53

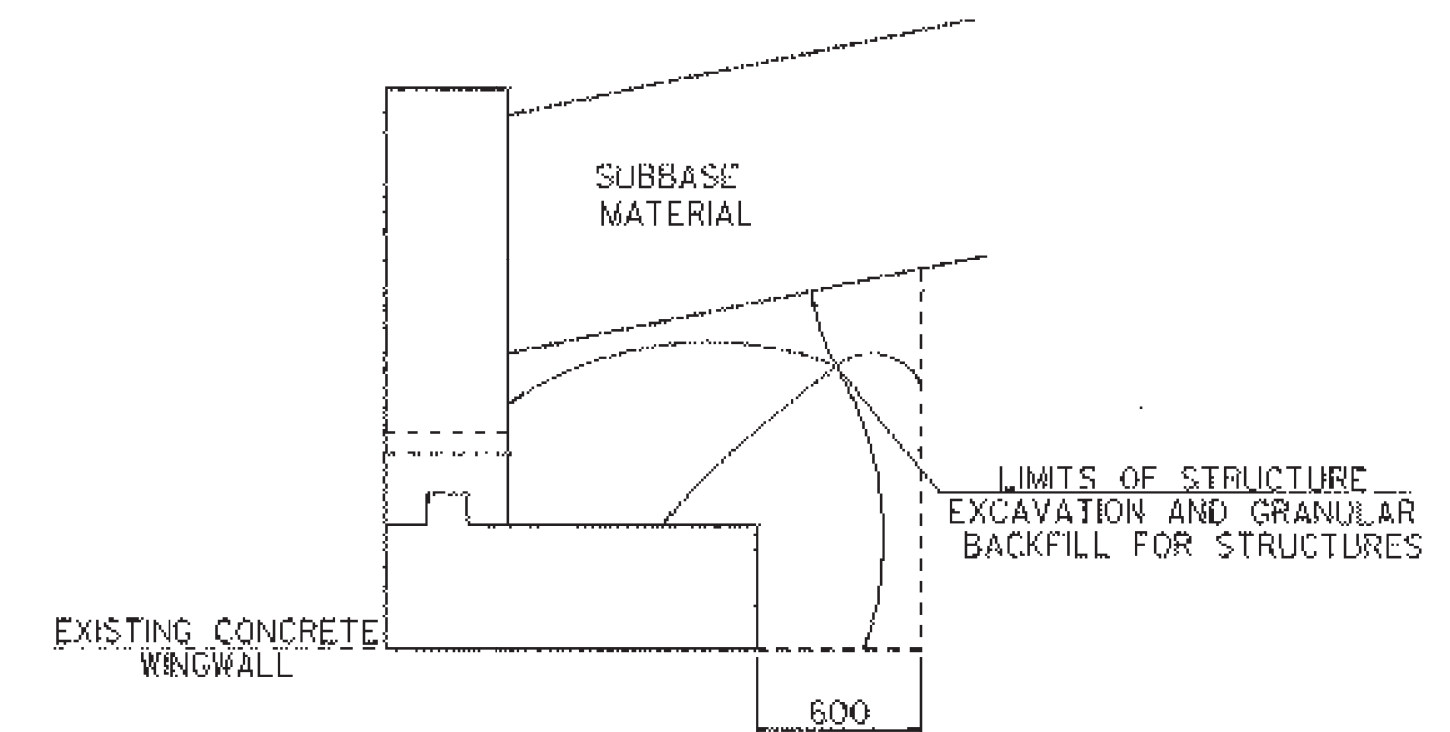
*NO COLD PLANING DONE
ON EAST APPROACH



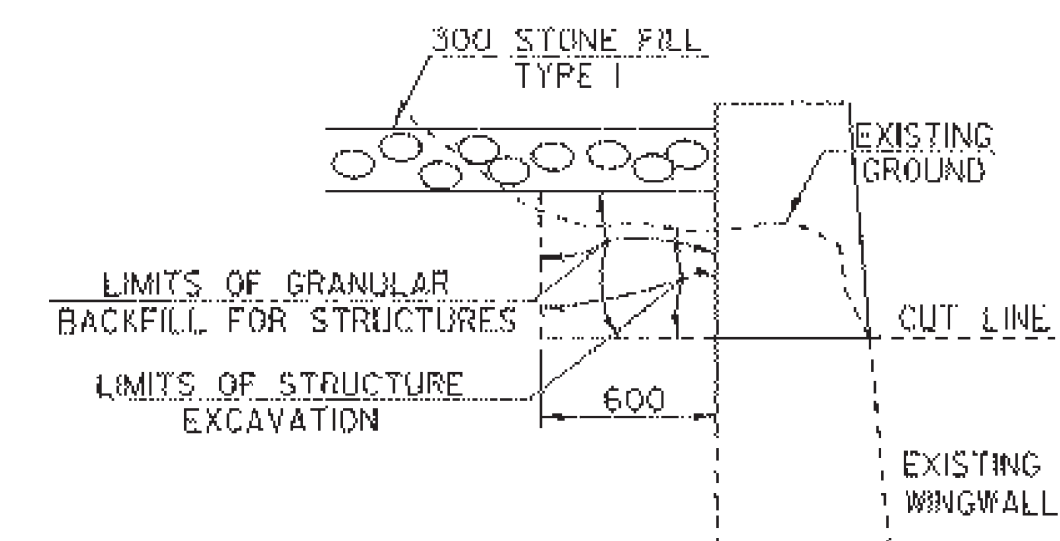
ABUTMENT NO. 2
NTS



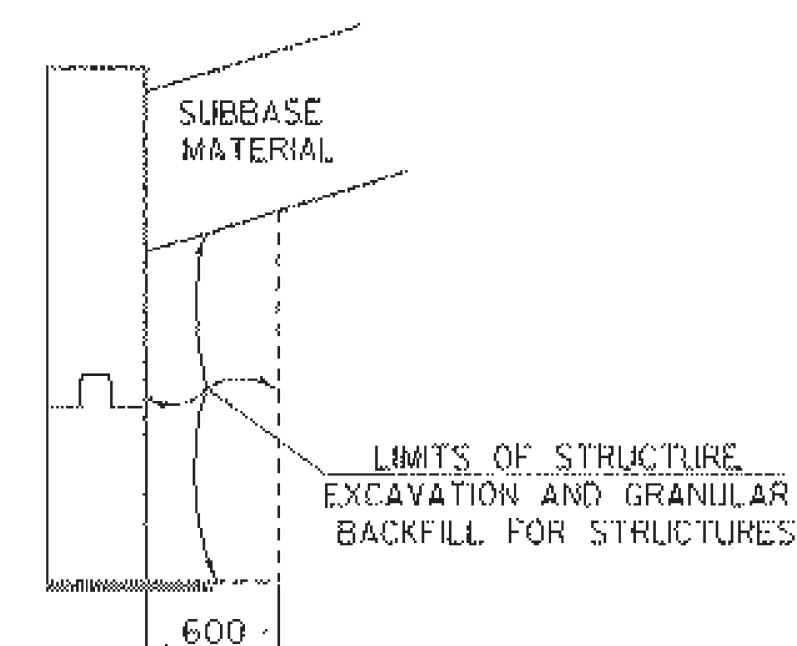
ABUTMENT NO. 1
NTS



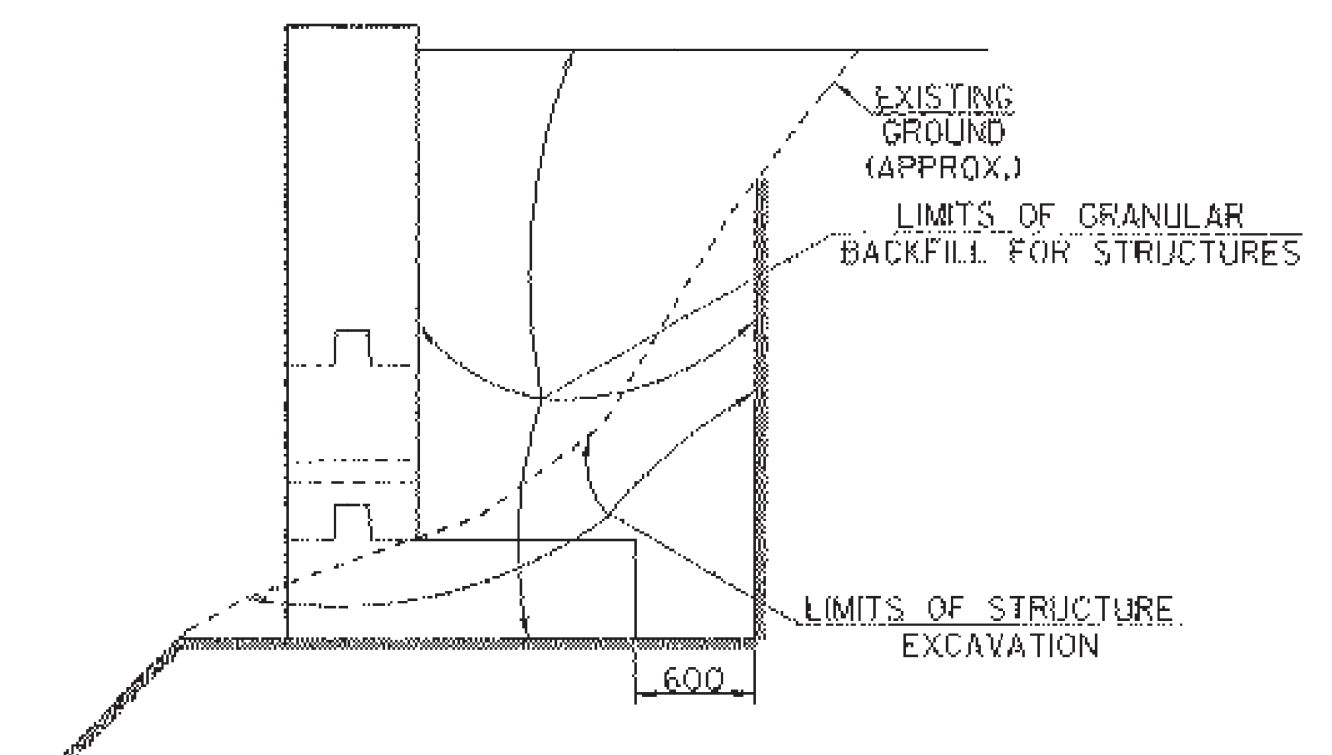
WINGWALL NO. 1
NTS



WINGWALL NO. 2
NTS

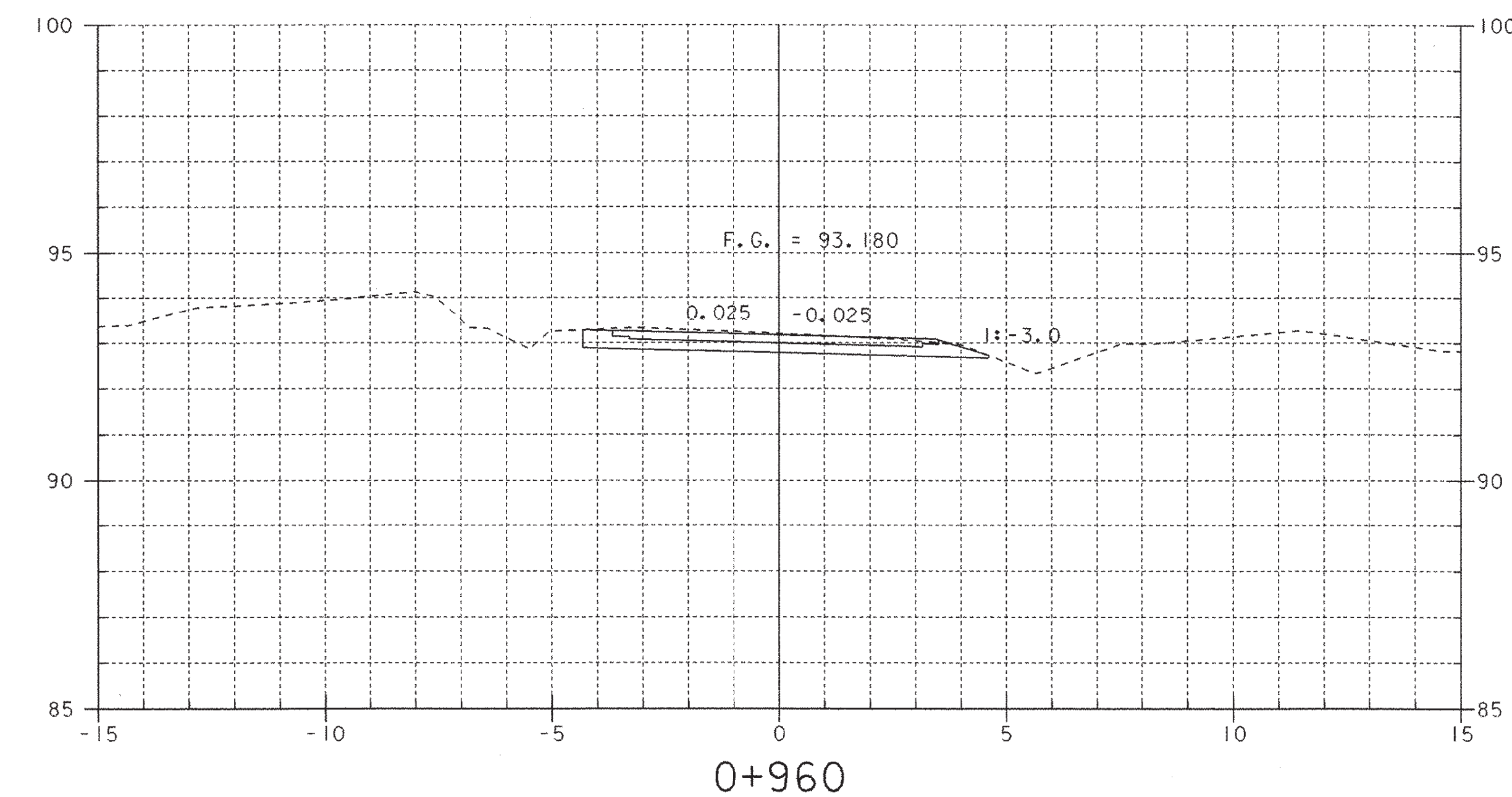
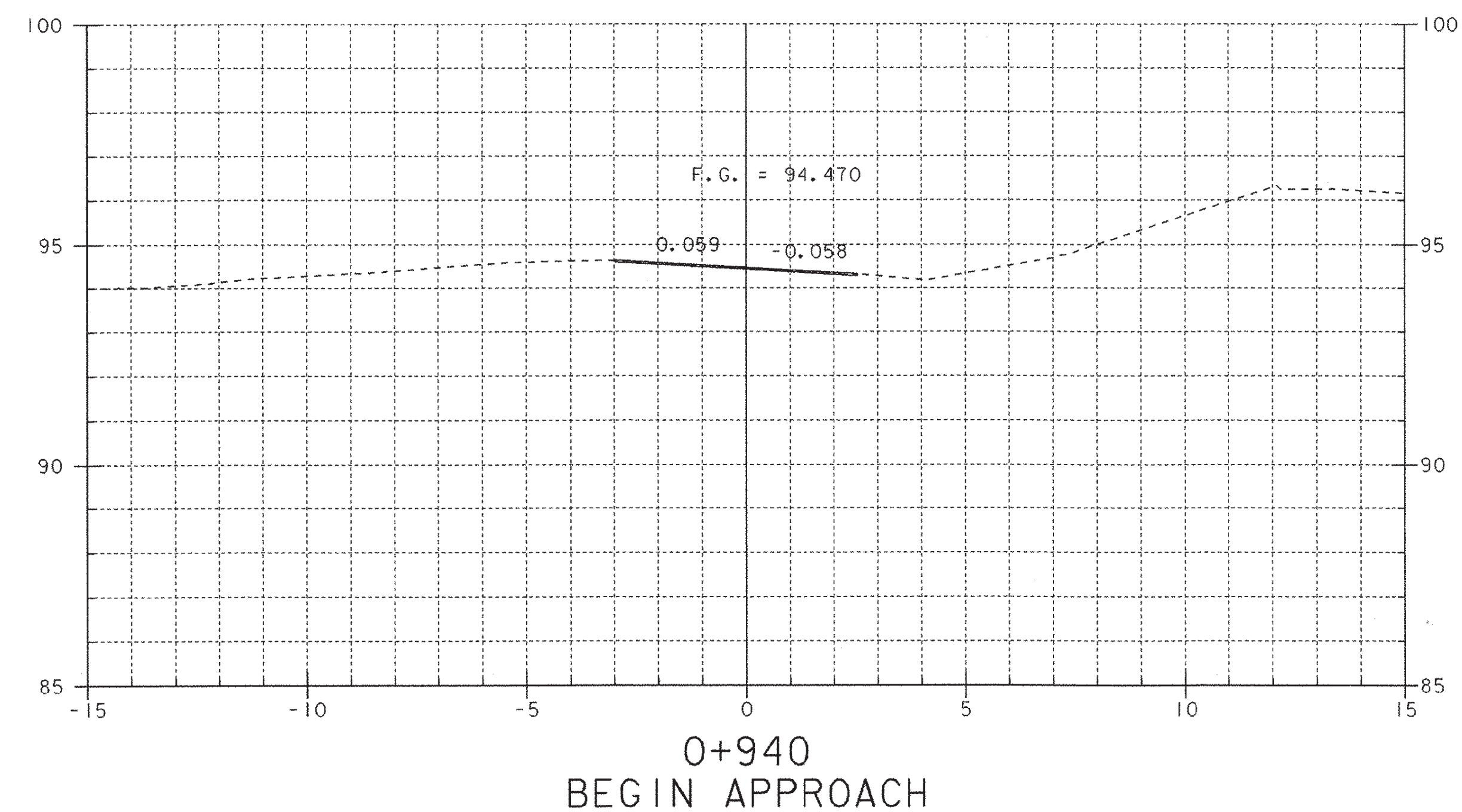
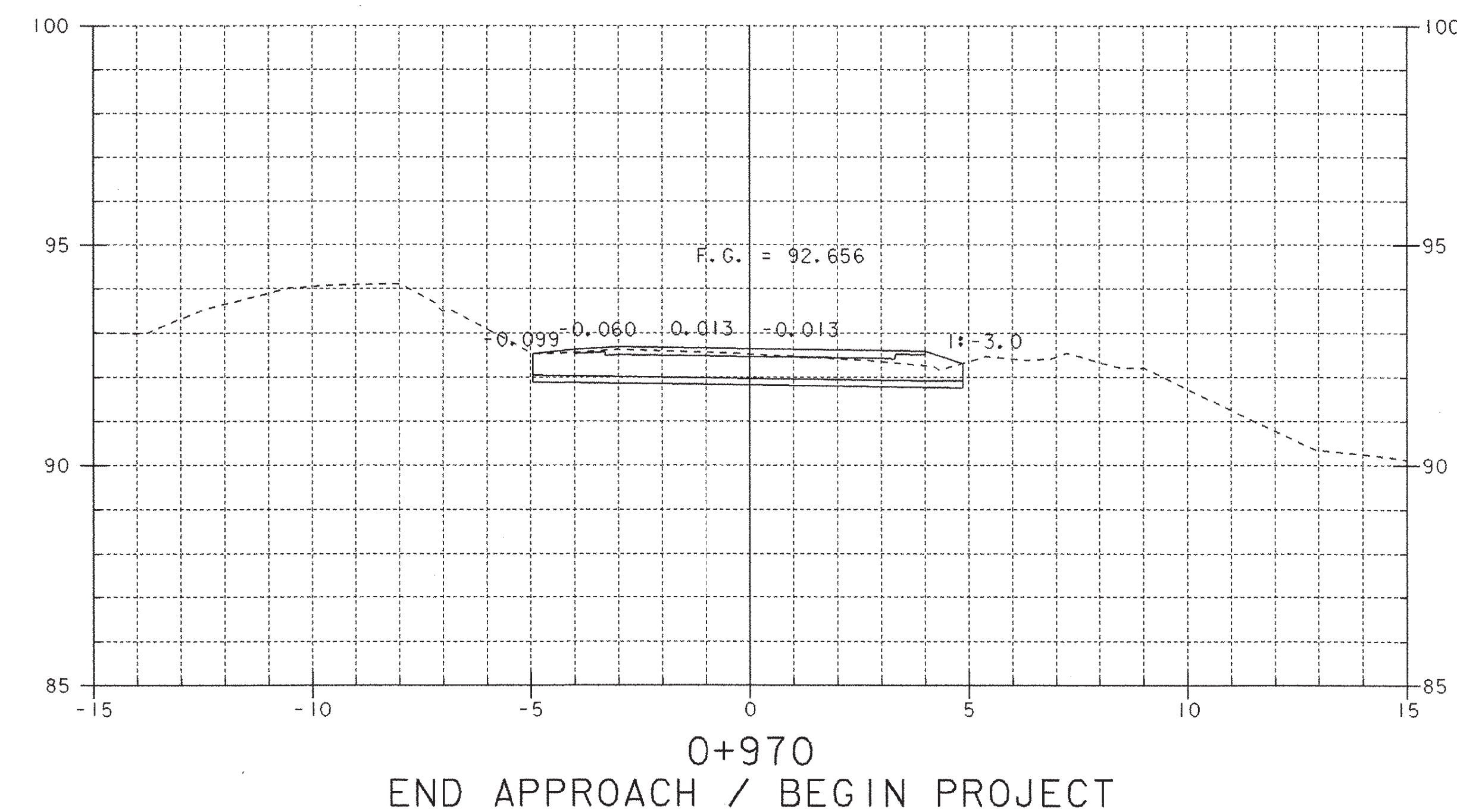
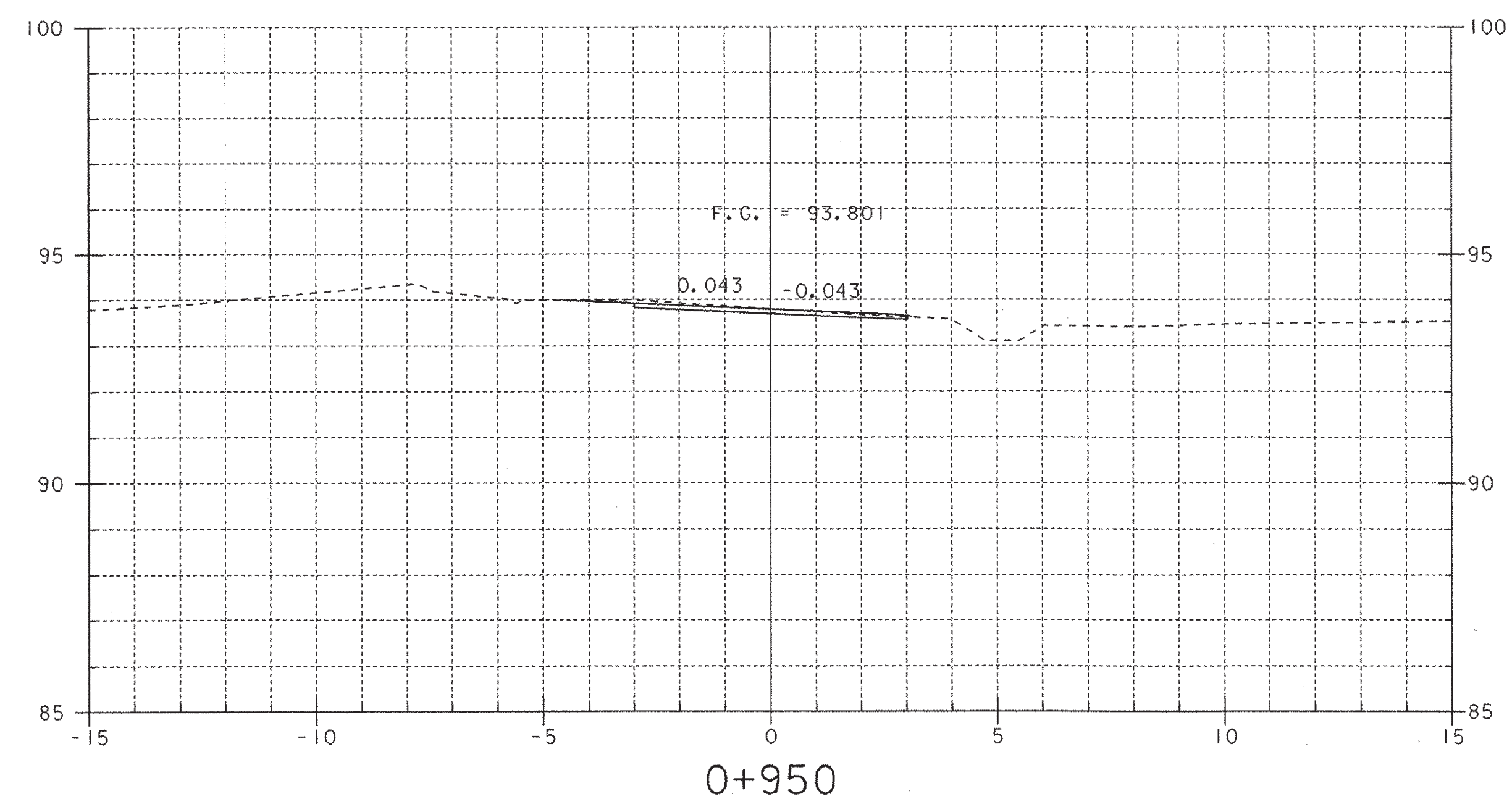


WINGWALL NO. 3
NTS

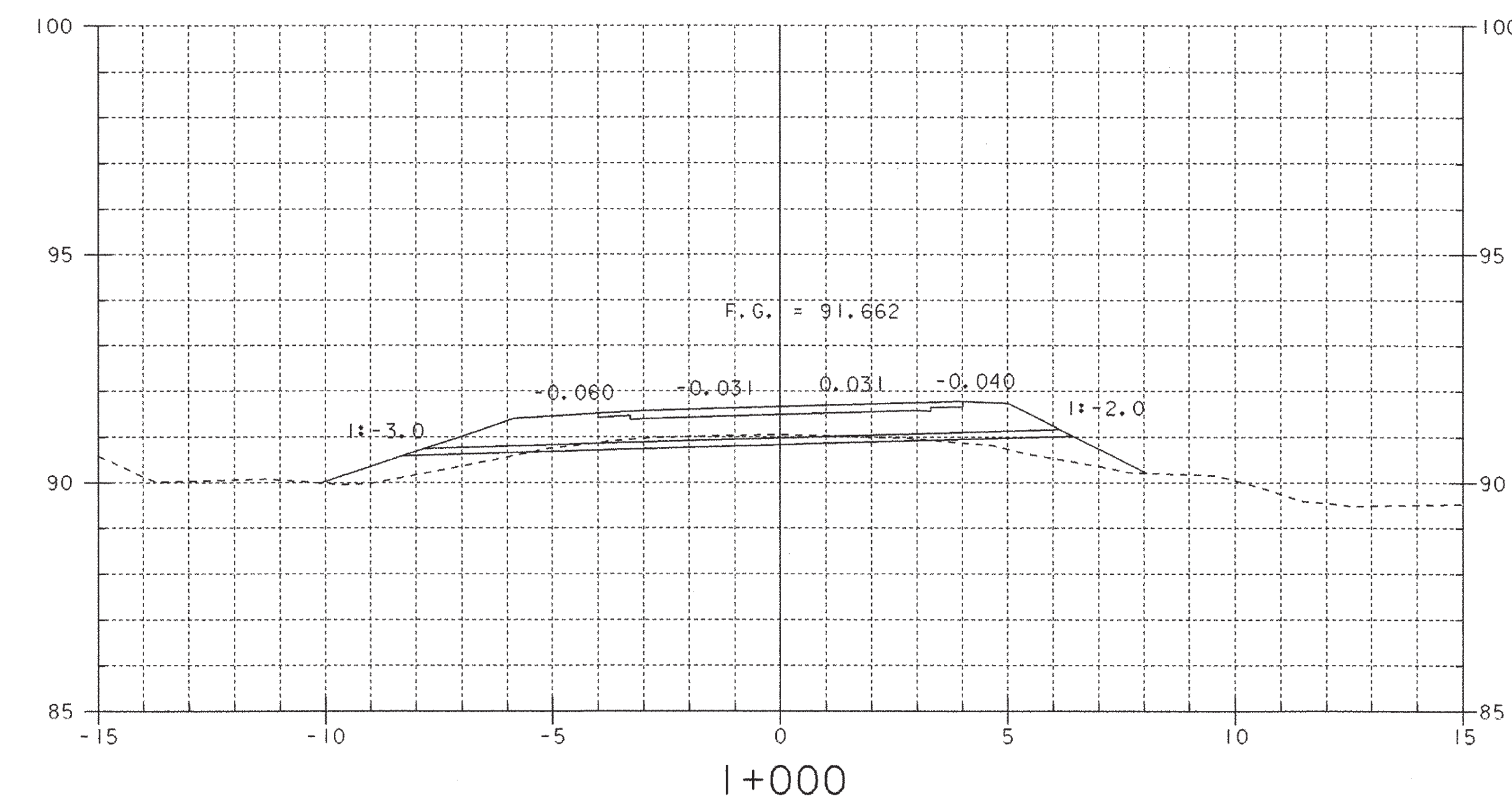
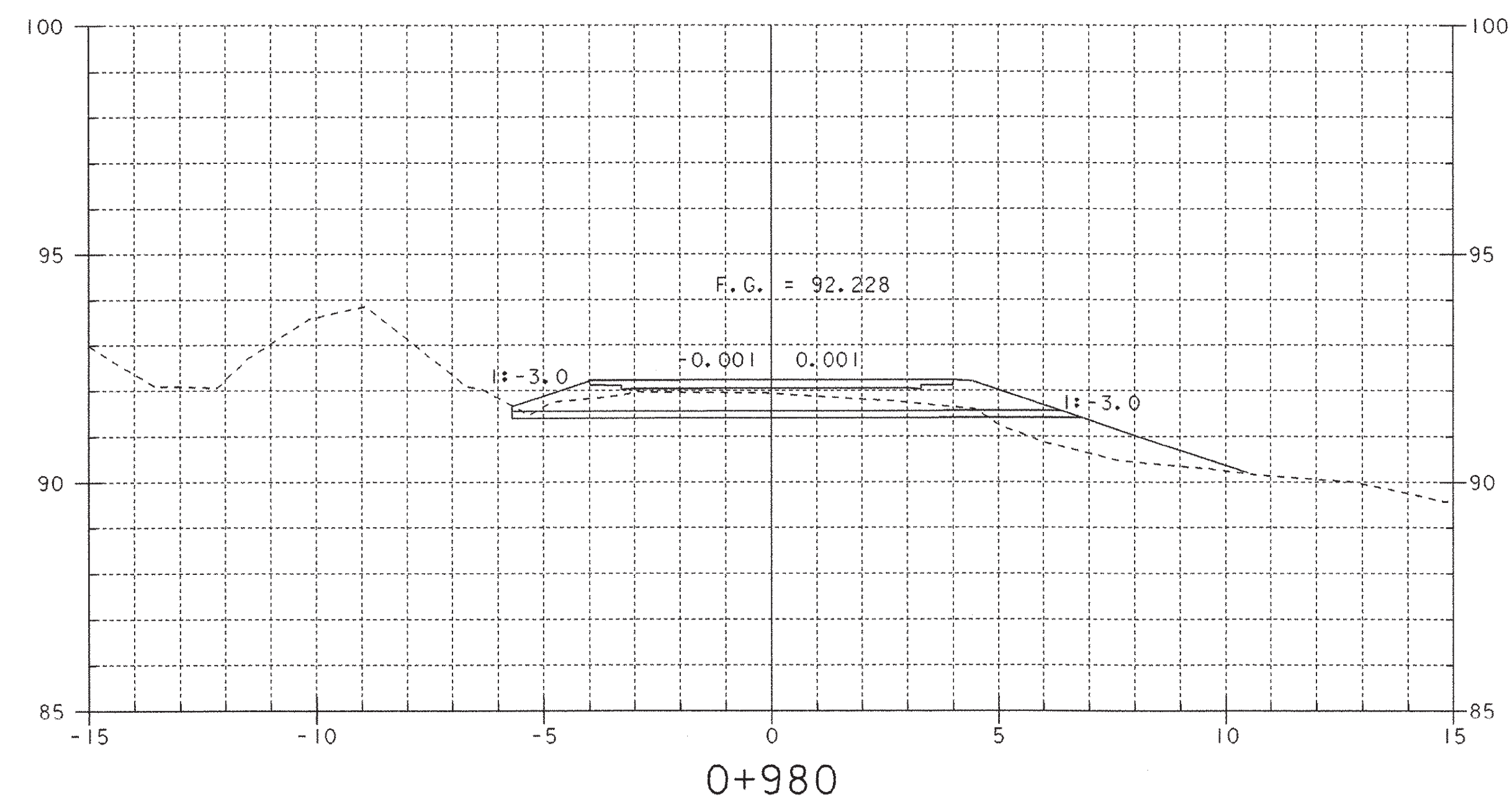
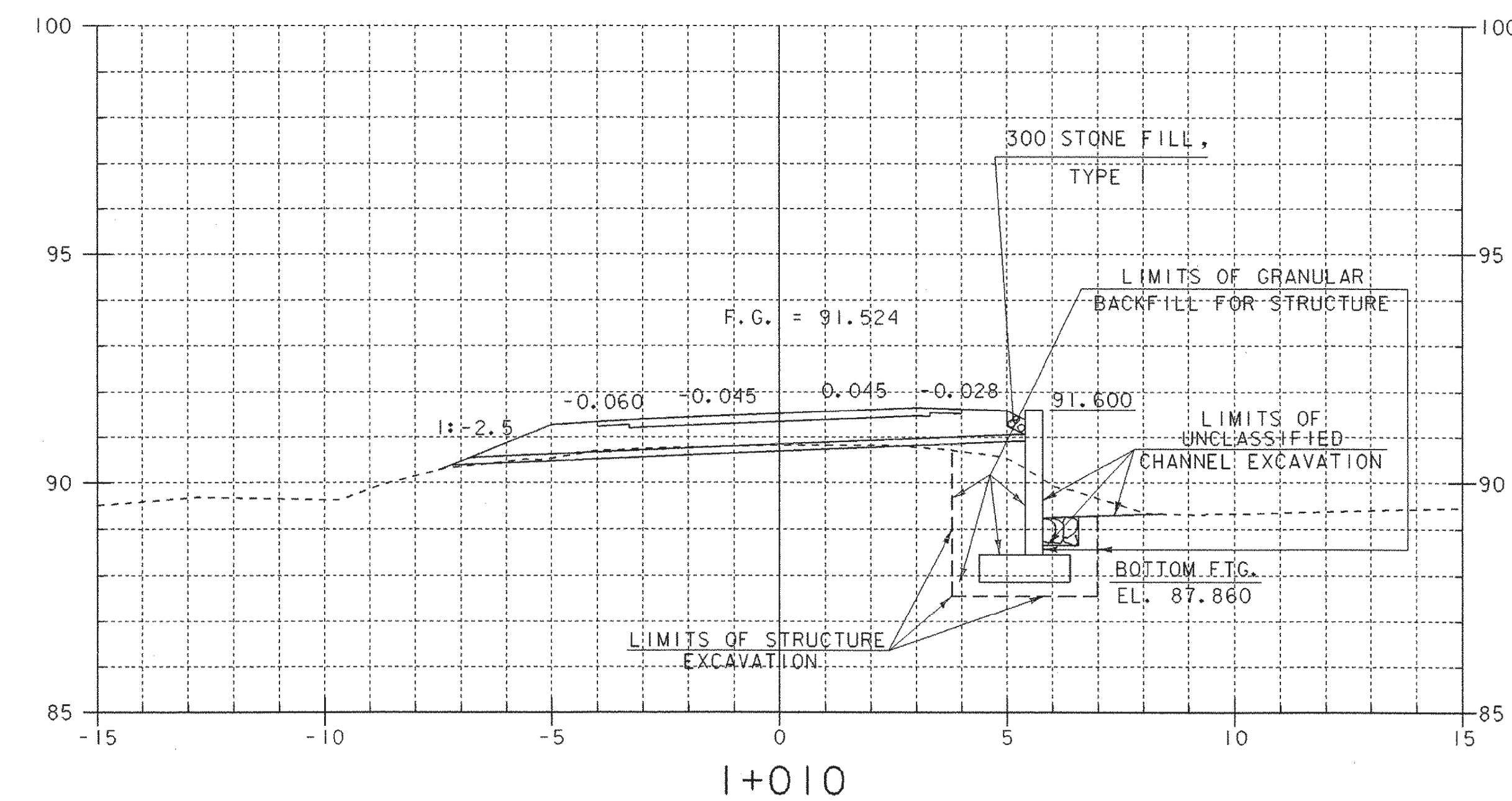
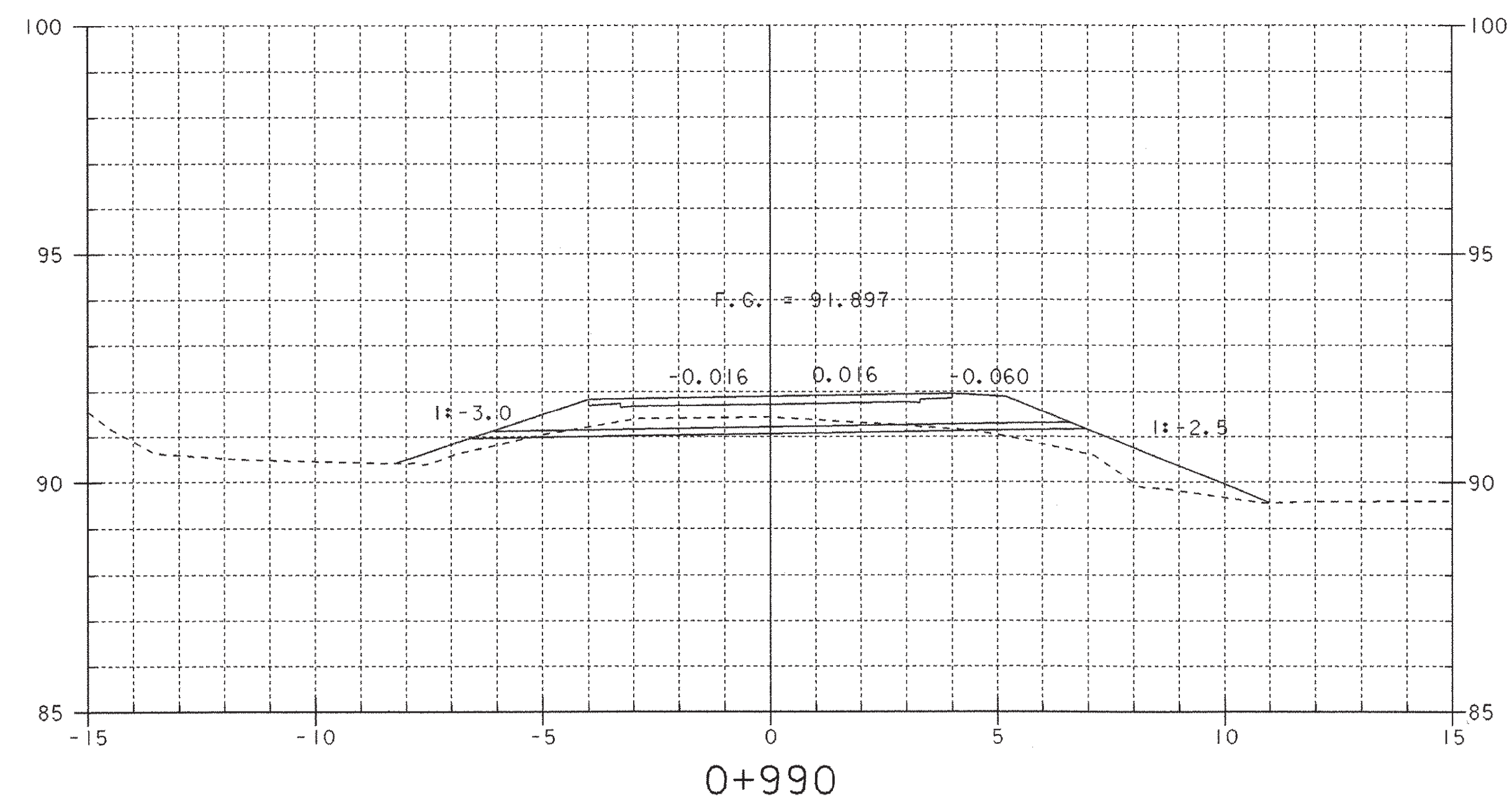


WINGWALL NO. 4
NTS

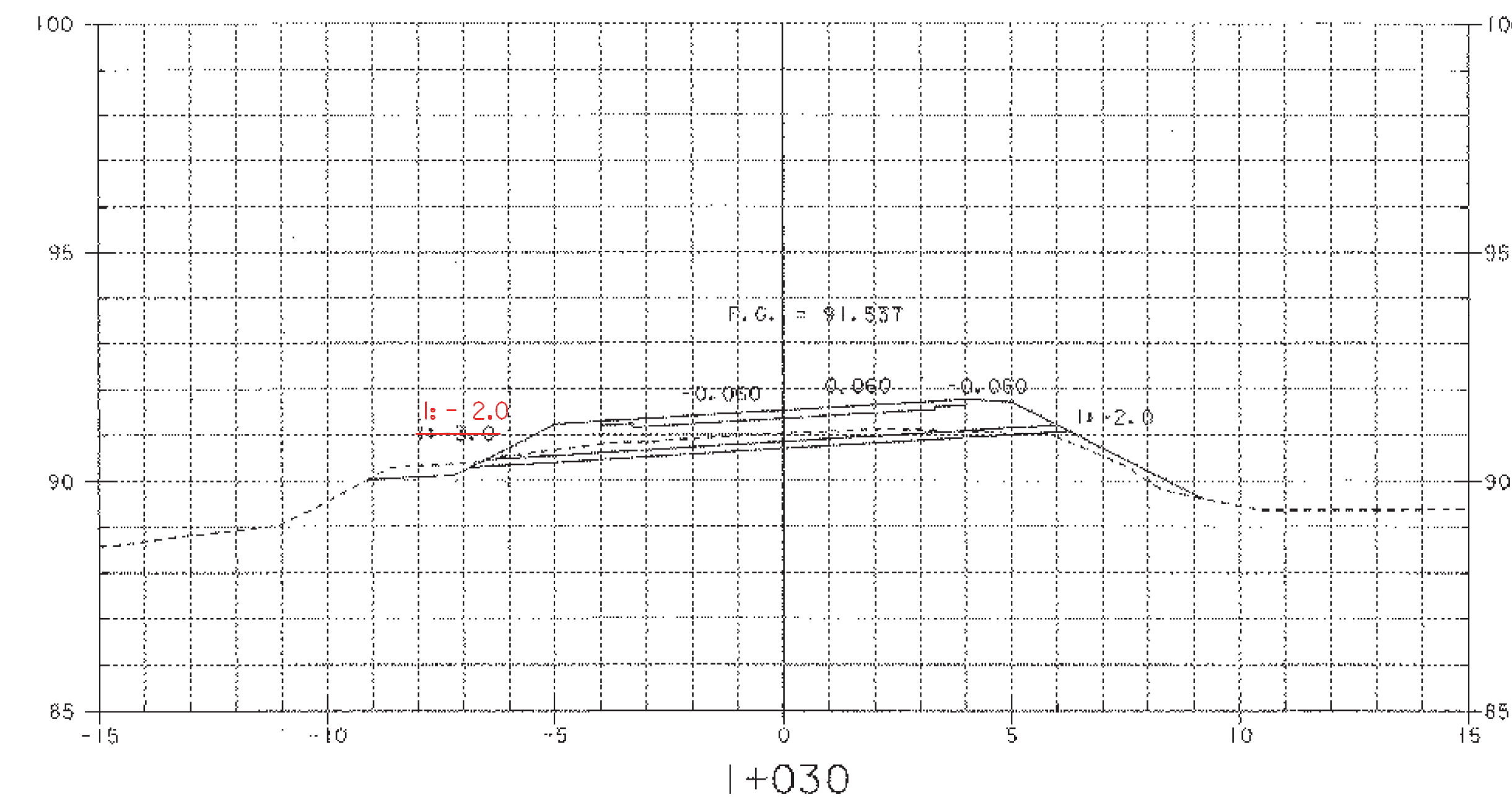
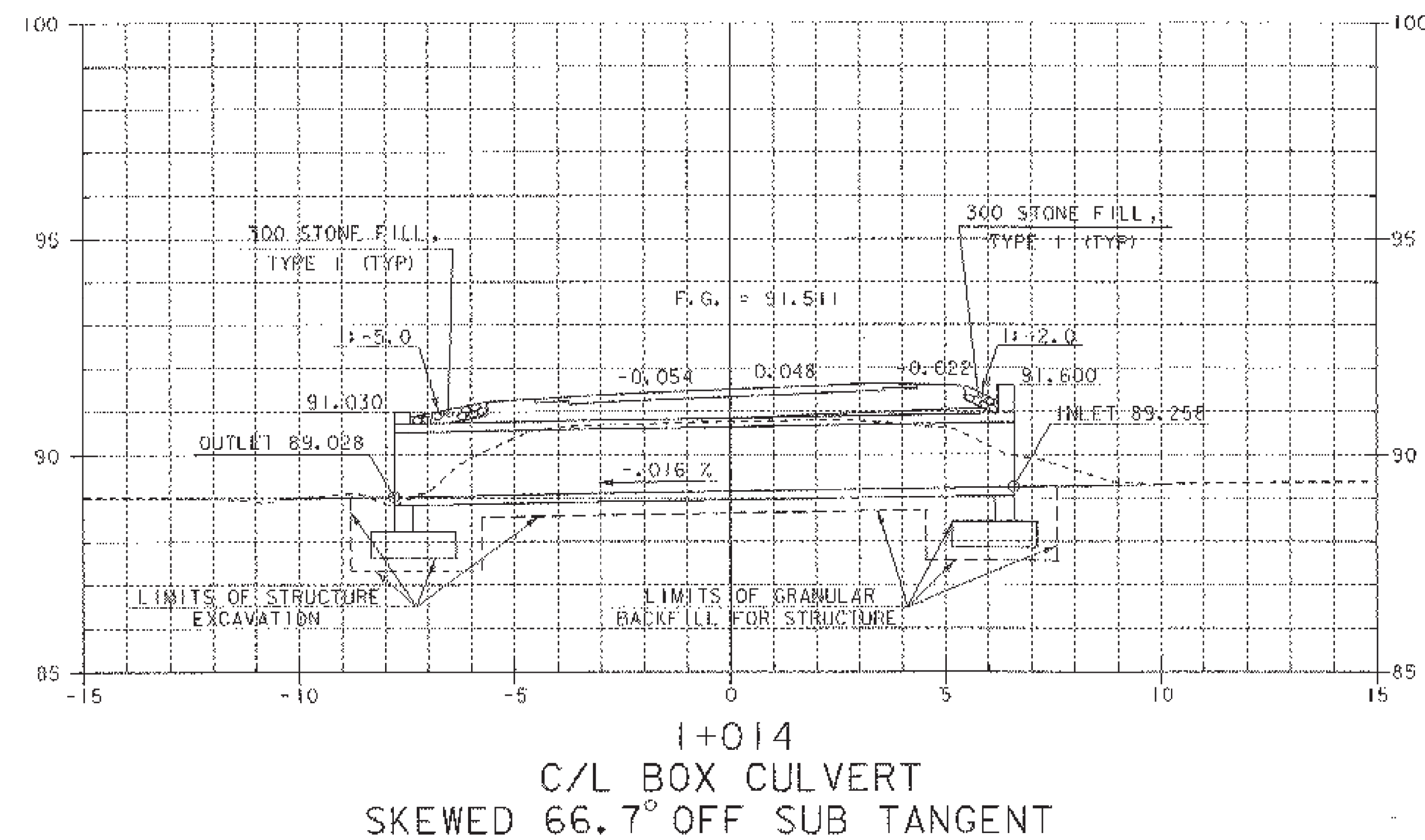
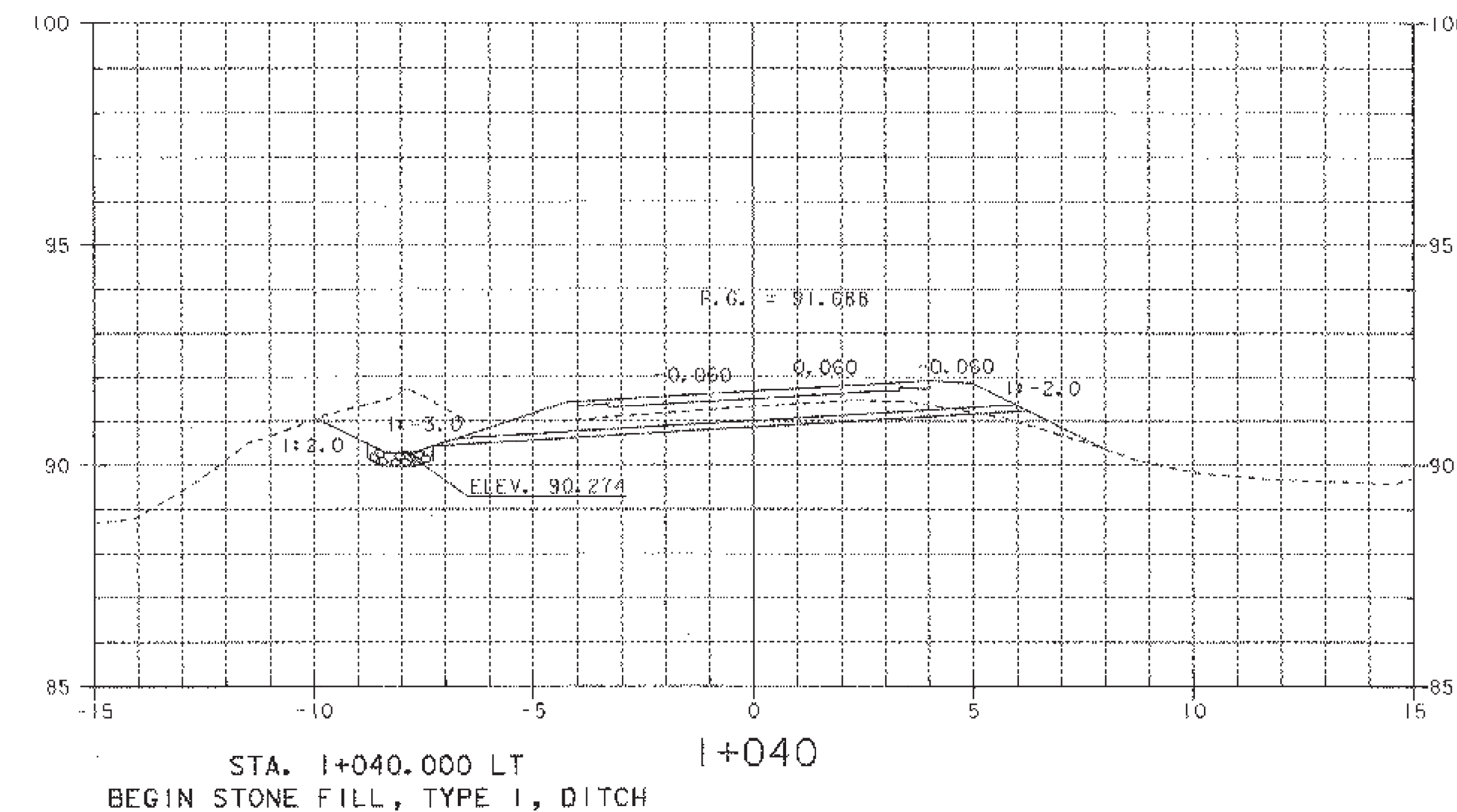
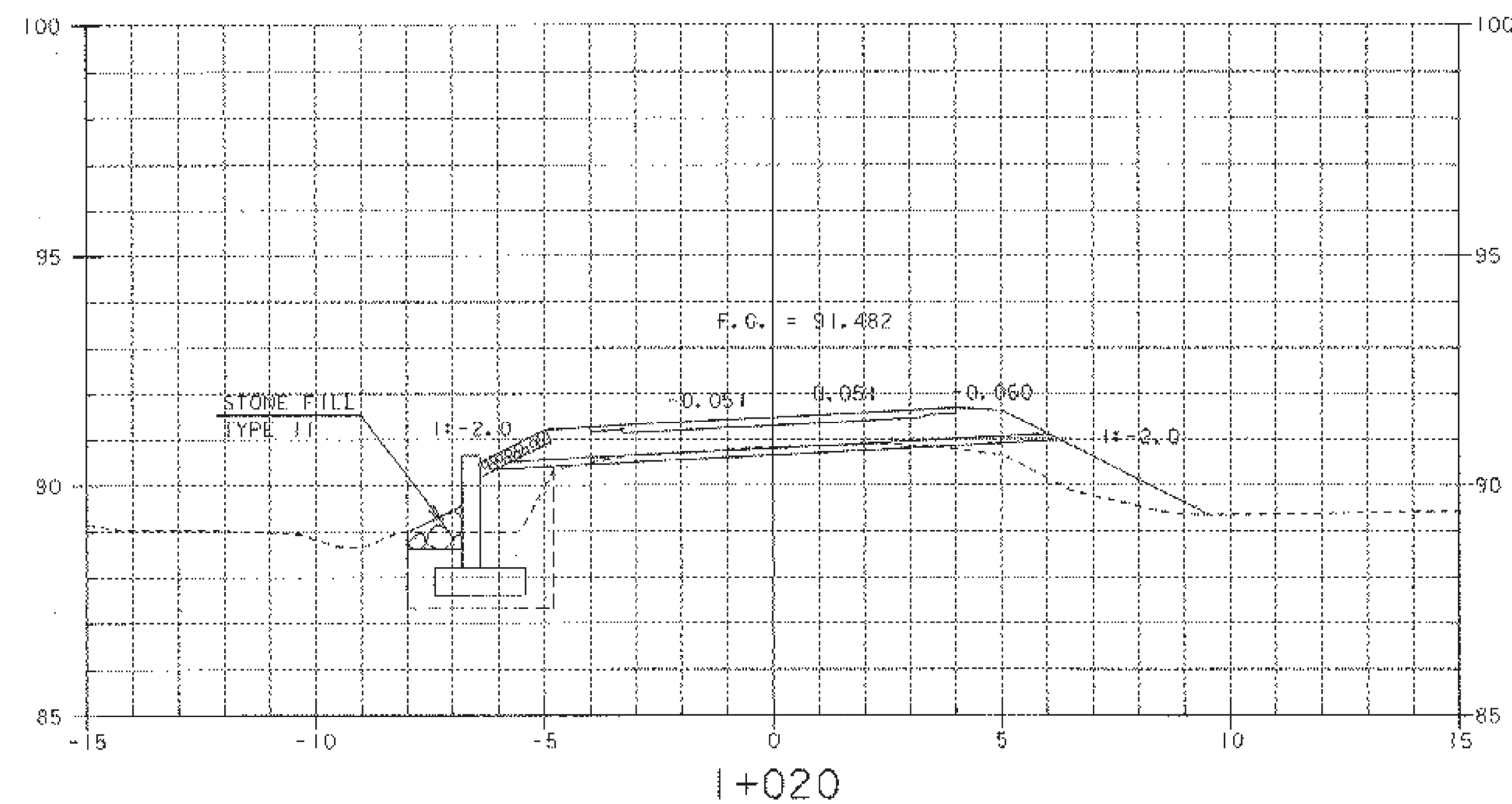
SHEET NAME: SUBBASE TRANSITION AND EXCAVATION DETAILS	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: 761r1/93j021/sj021xs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021mx8.i
BRIDGE SHEET NUMBER:	SHEET 36 OF 53



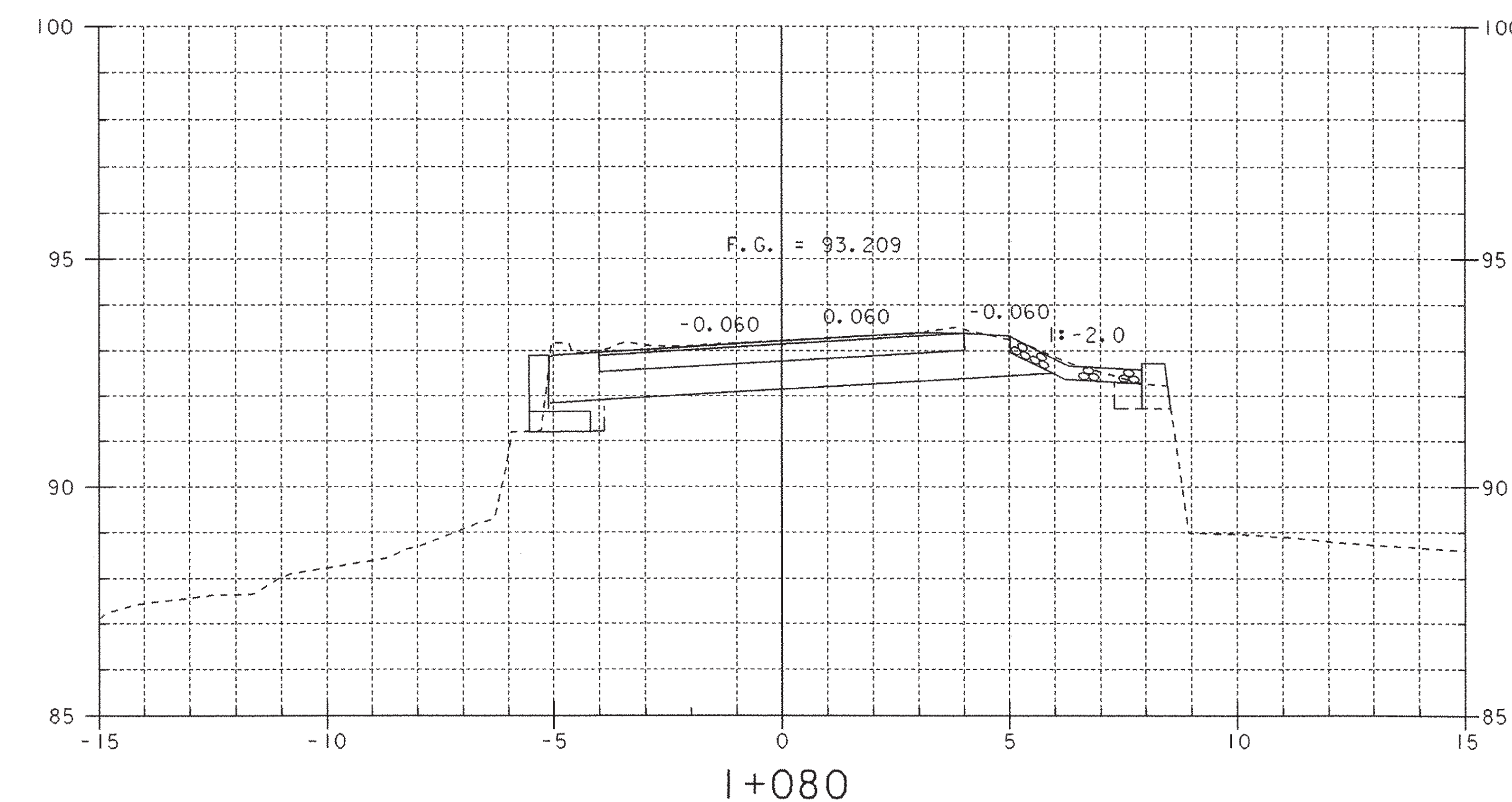
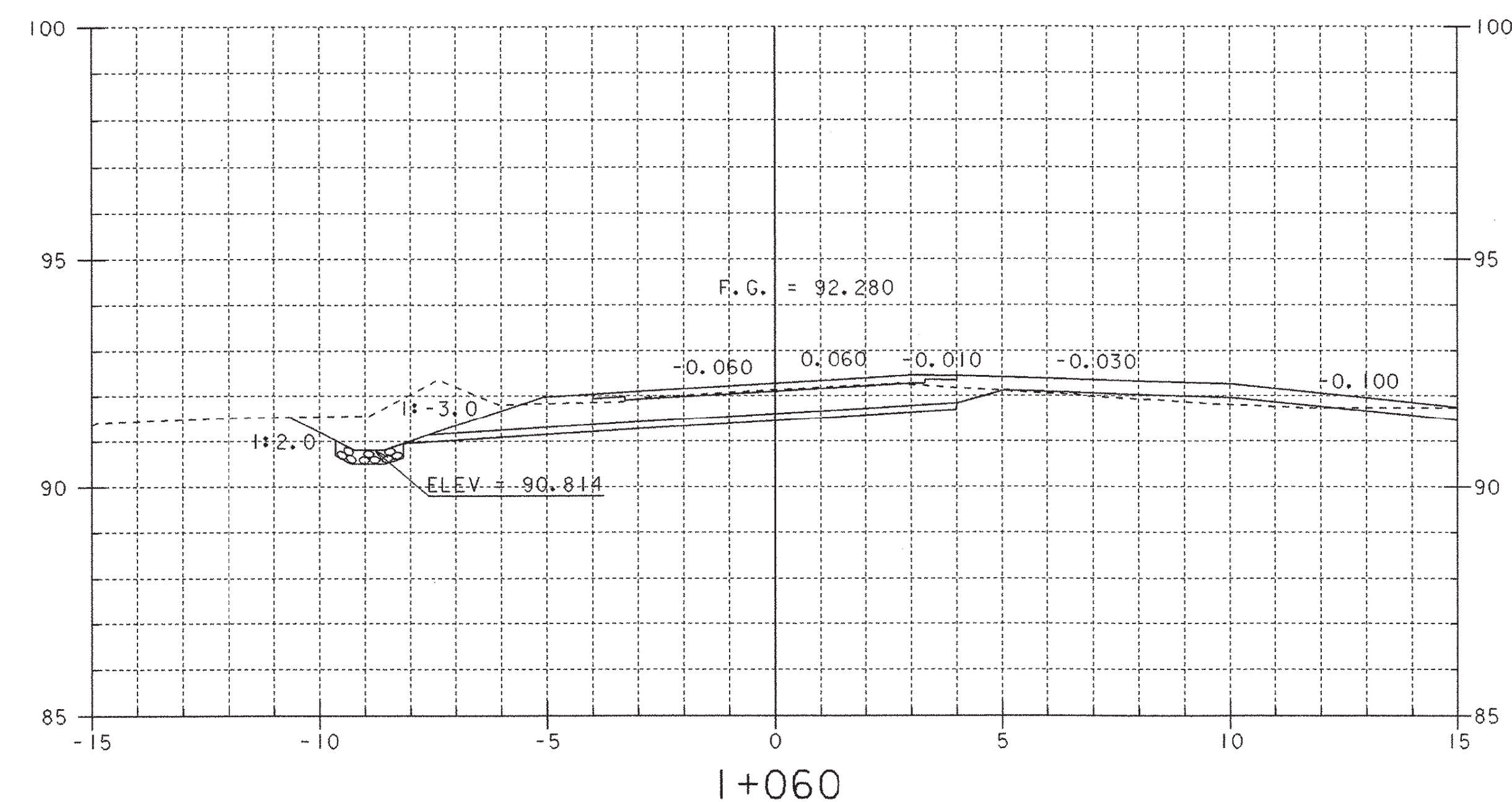
SHEET NAME: MAINLINE CROSS SECTIONS	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /s/r1/93j021/sj021xs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021mx1.1
BRIDGE SHEET NUMBER:	SHEET 37 OF 53



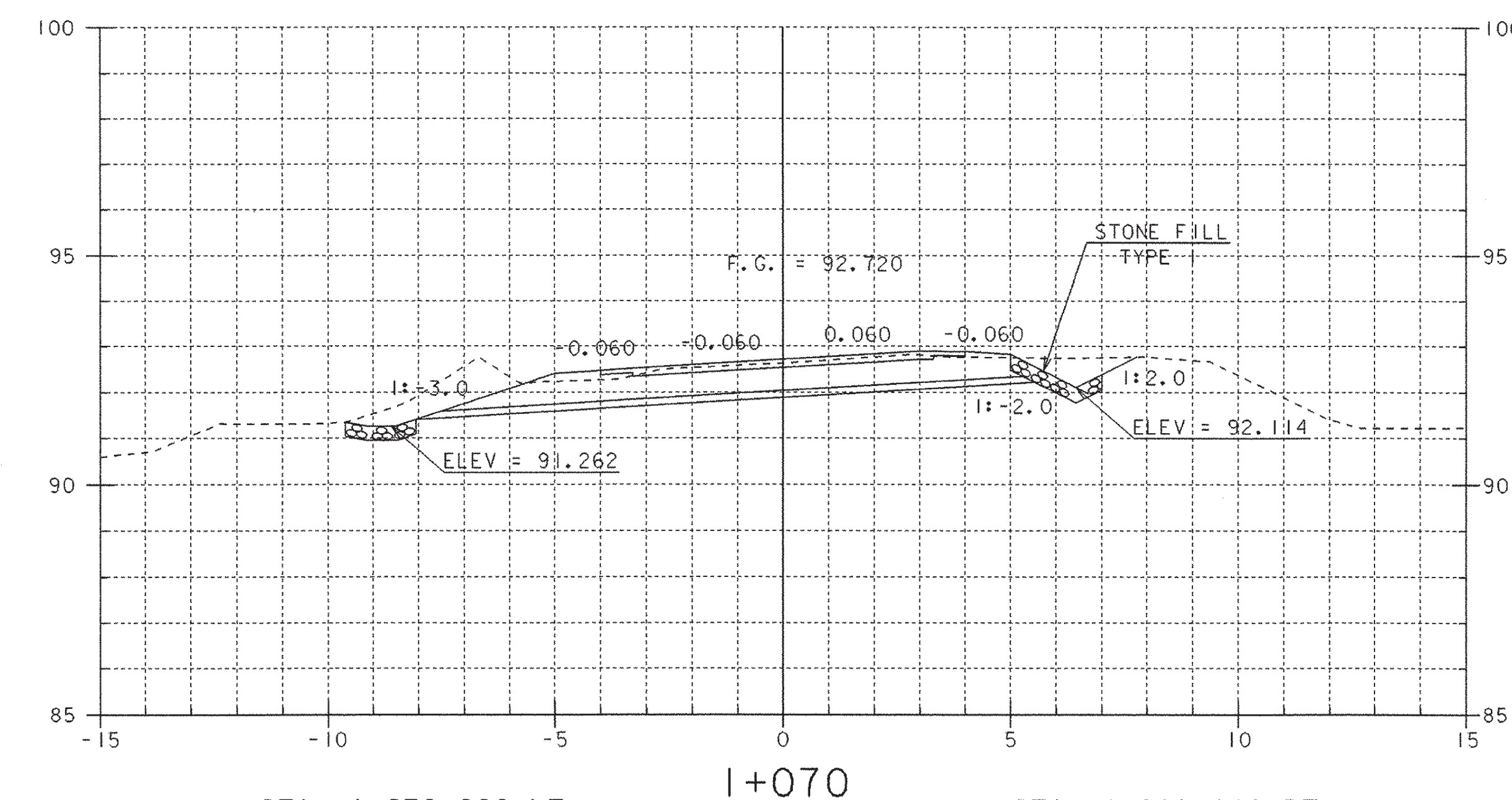
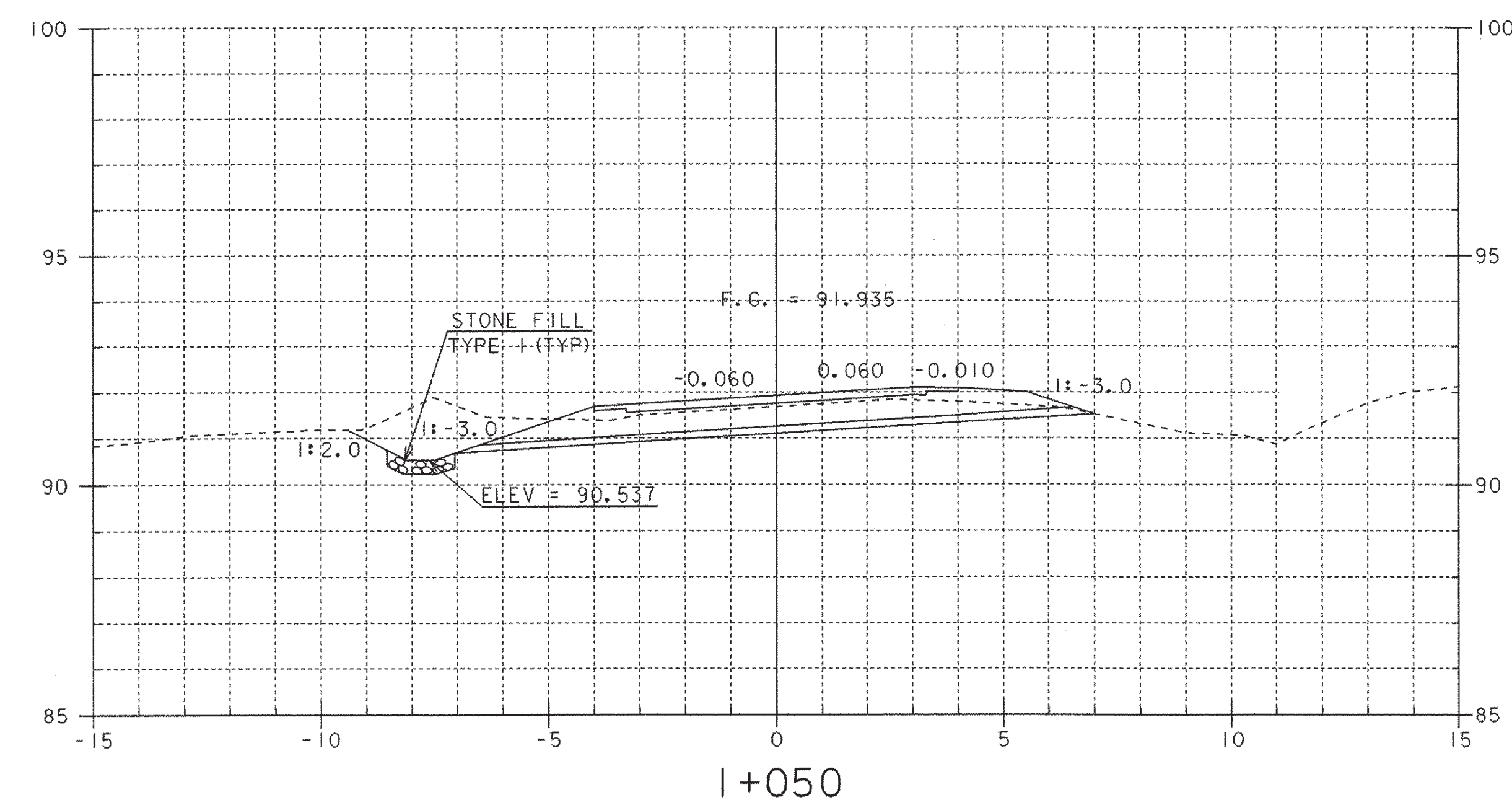
SHEET NAME: MAINLINE CROSS SECTIONS	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /str1/93j021/sj021xs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021mx2.1
BRIDGE SHEET NUMBER:	SHEET 38 OF 53



SHEET NAME: MAINLINE CROSS SECTIONS	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /s1r/93j02l/sj02lxs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STR
DESIGNED BY: C. MEUNIER	PARM NAME: sj02lpx3.1
BRIDGE SHEET NUMBER:	SHEET 39 OF 53



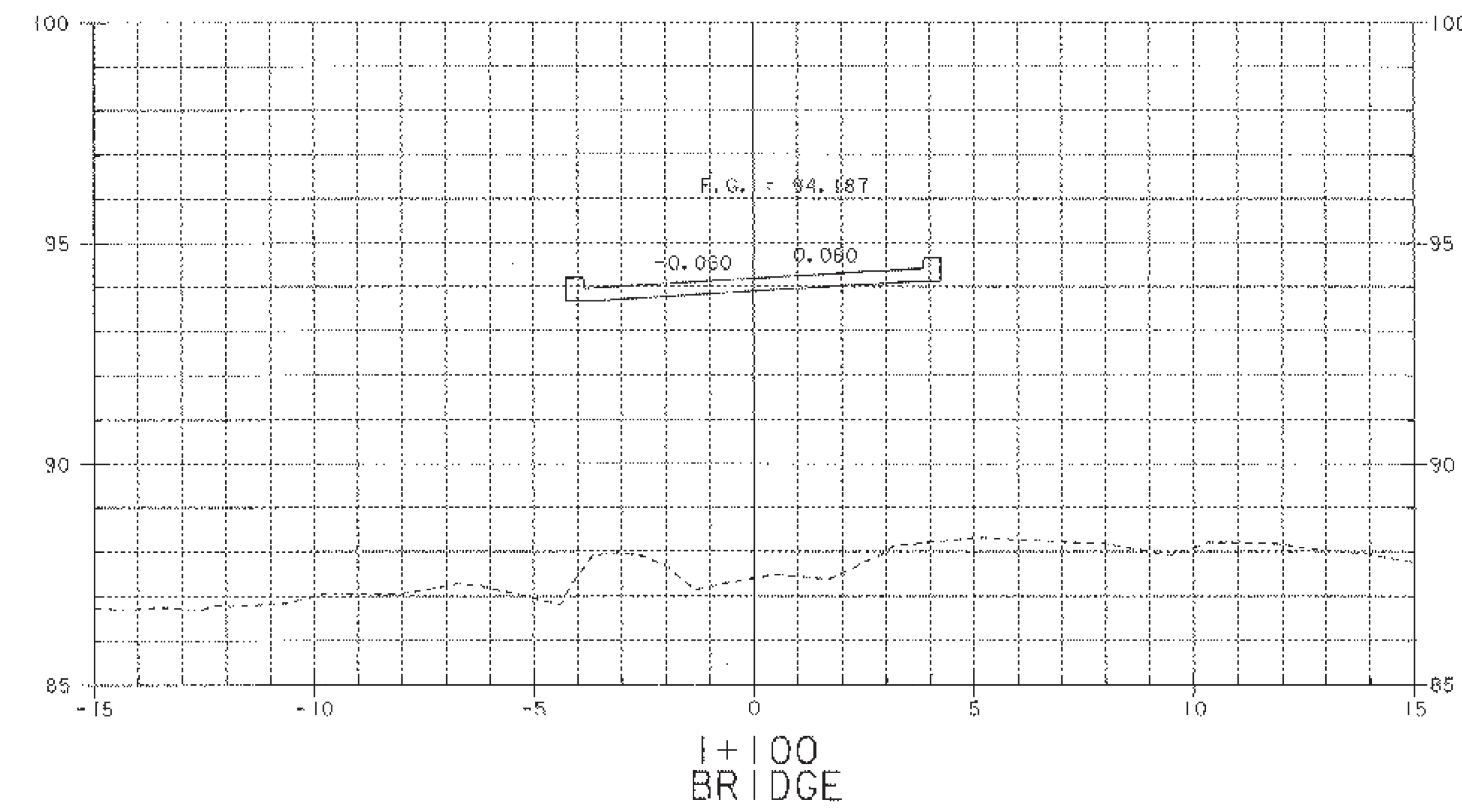
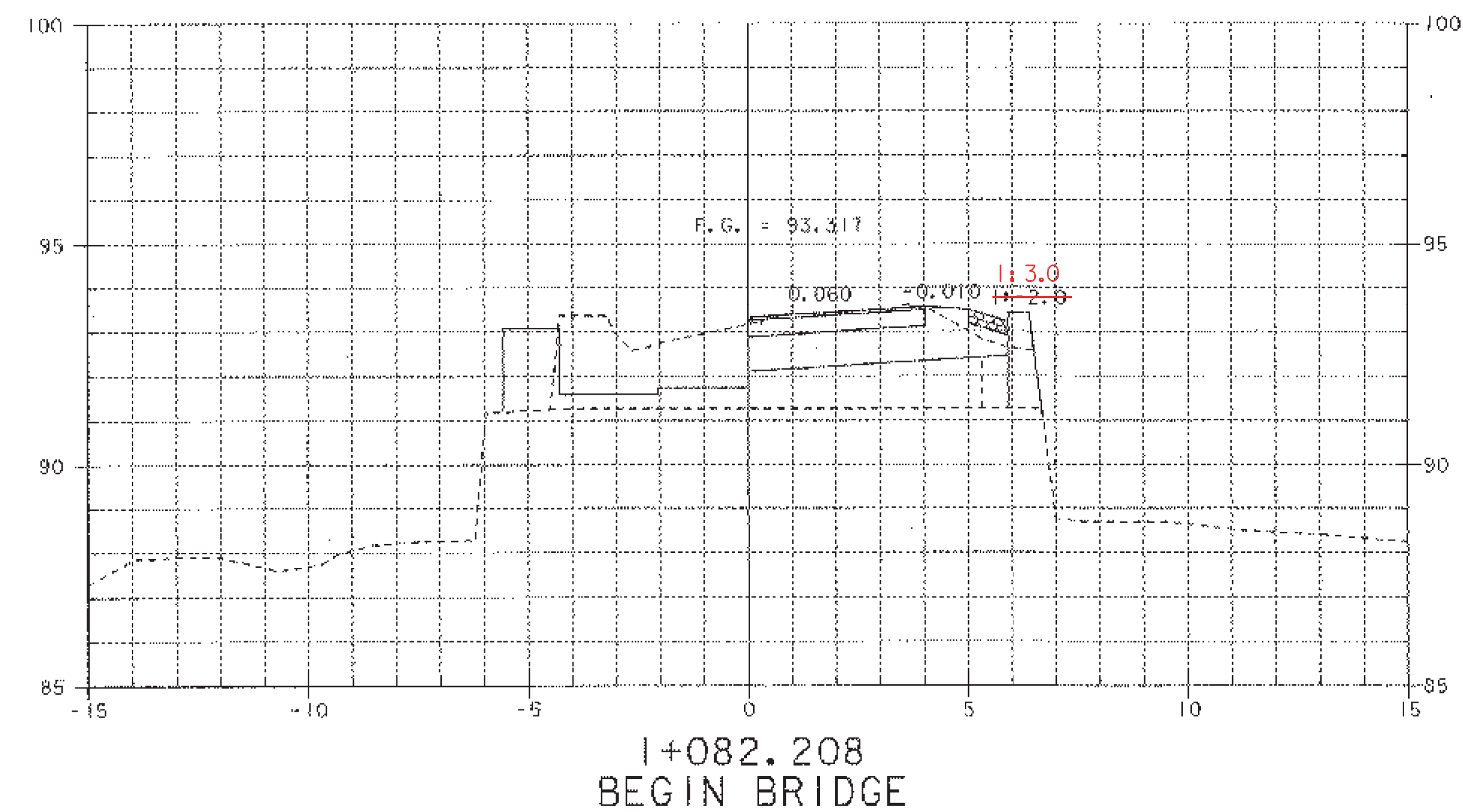
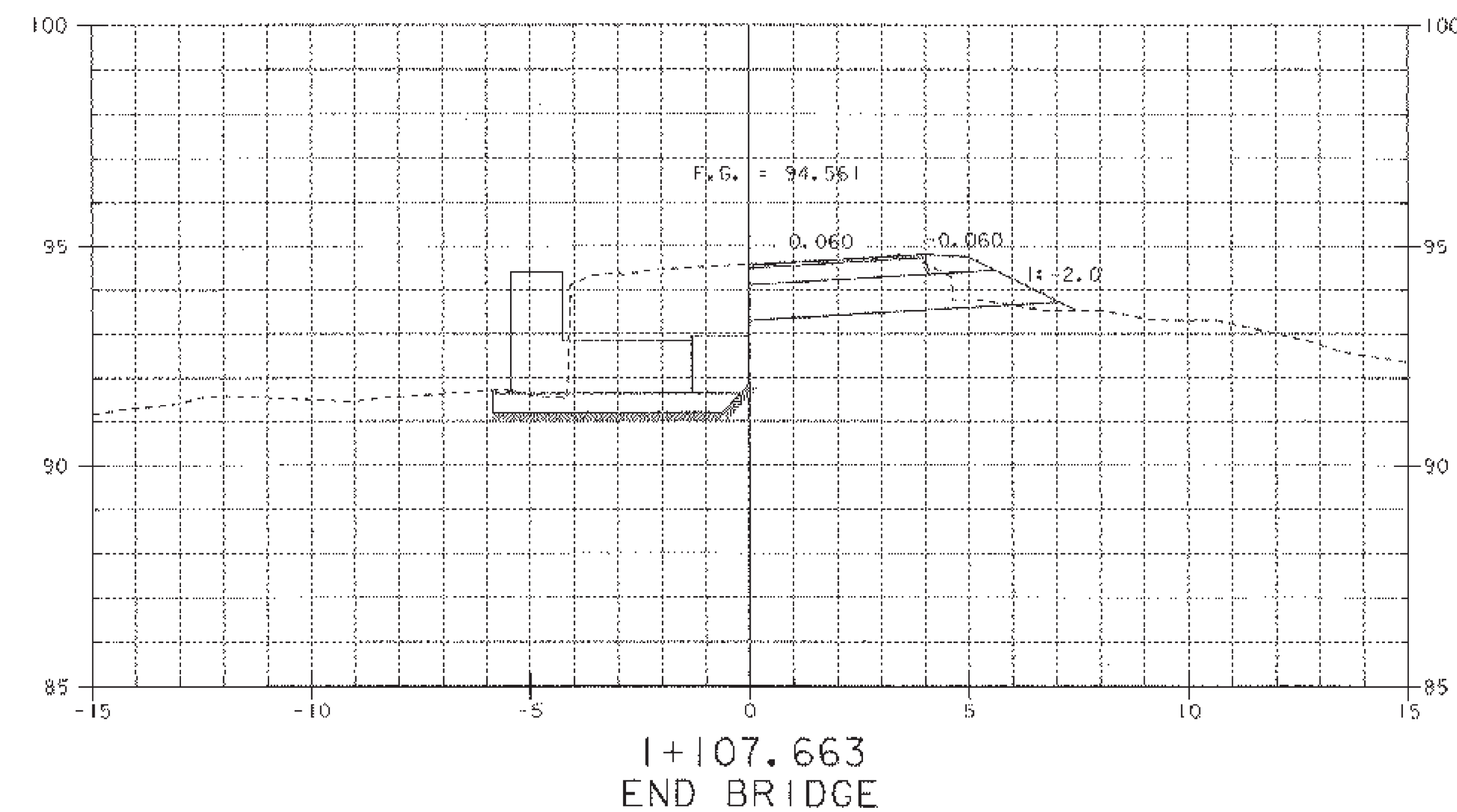
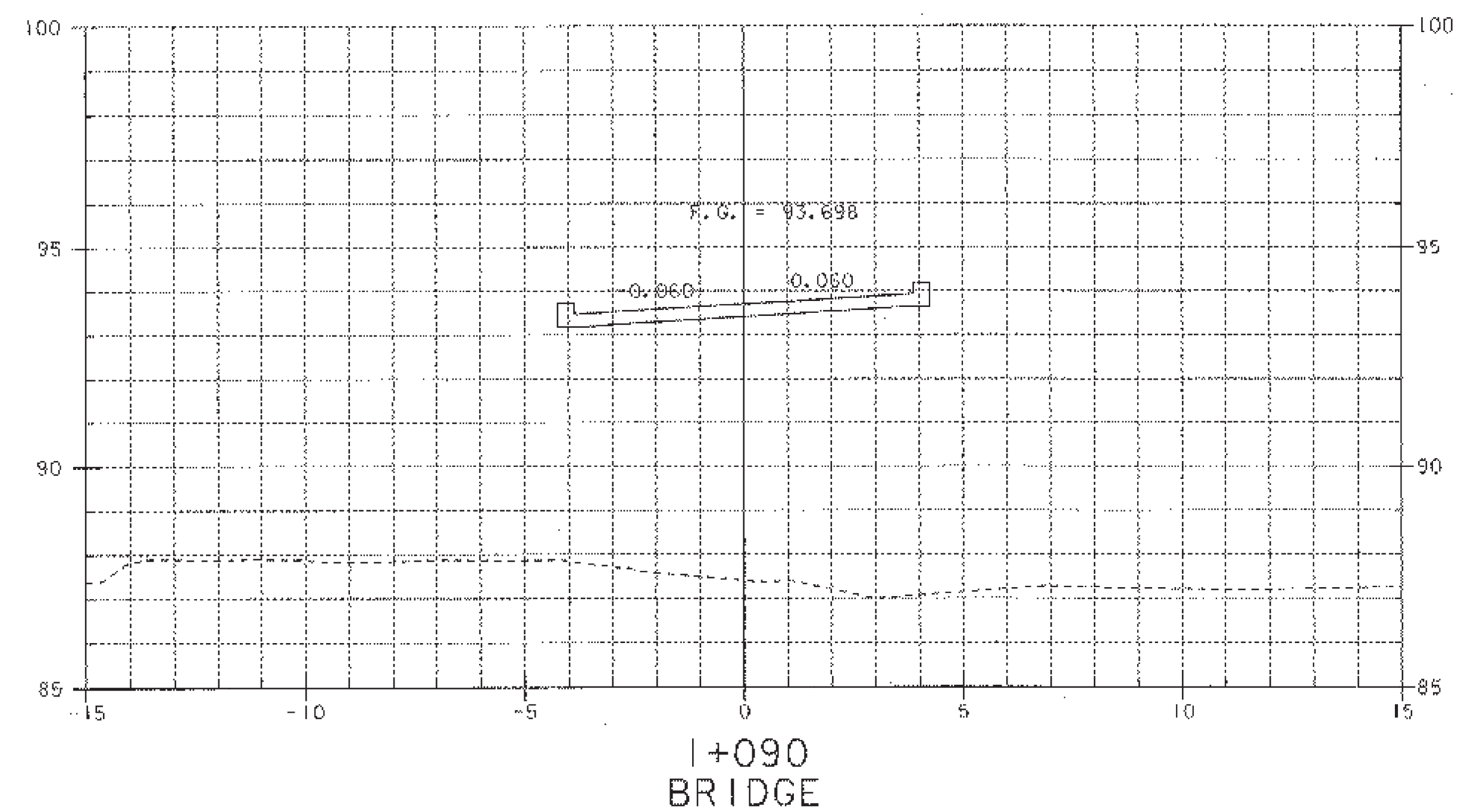
STA. I+080.500 RT
END DITCH
END STONE FILL, TYPE 1



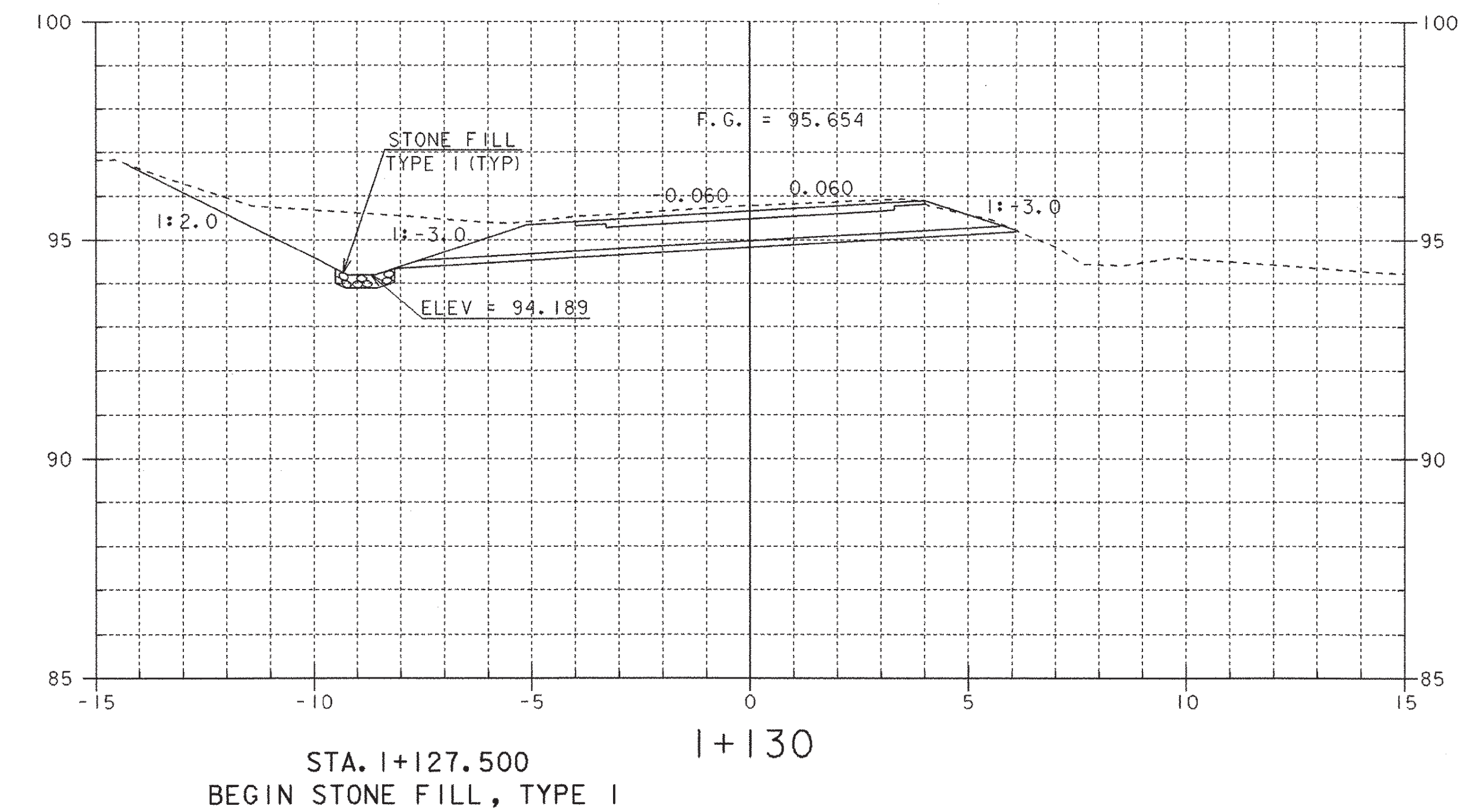
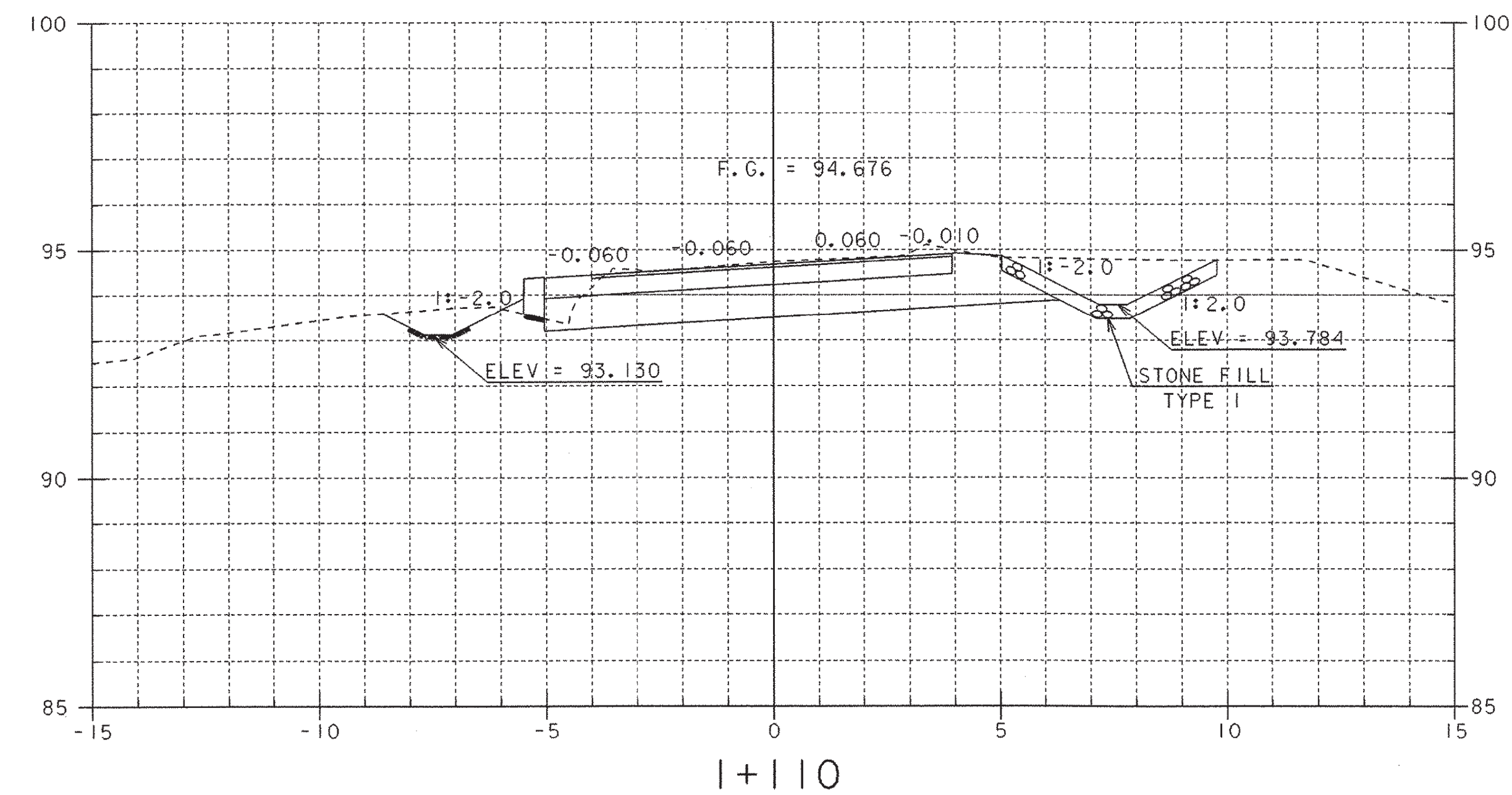
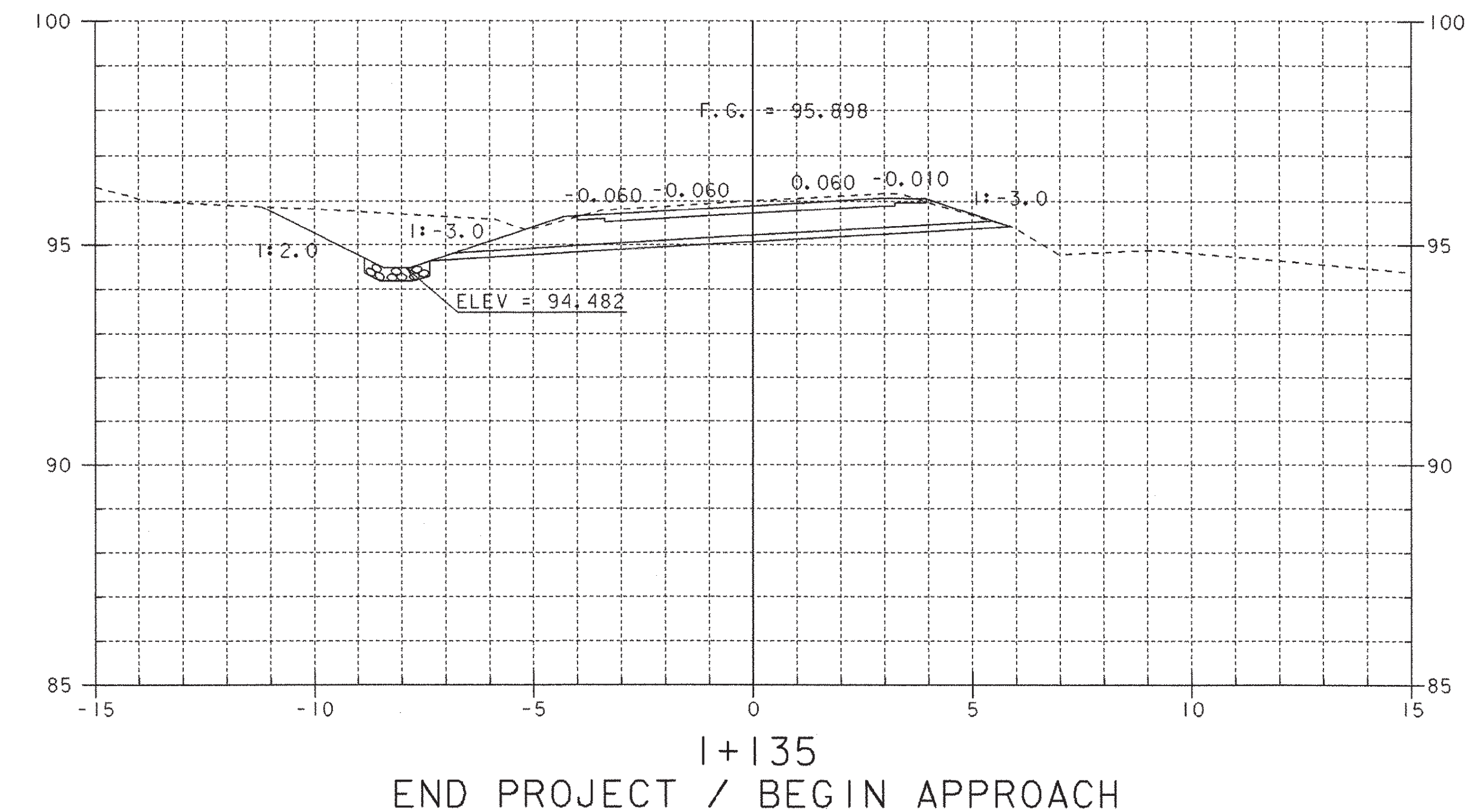
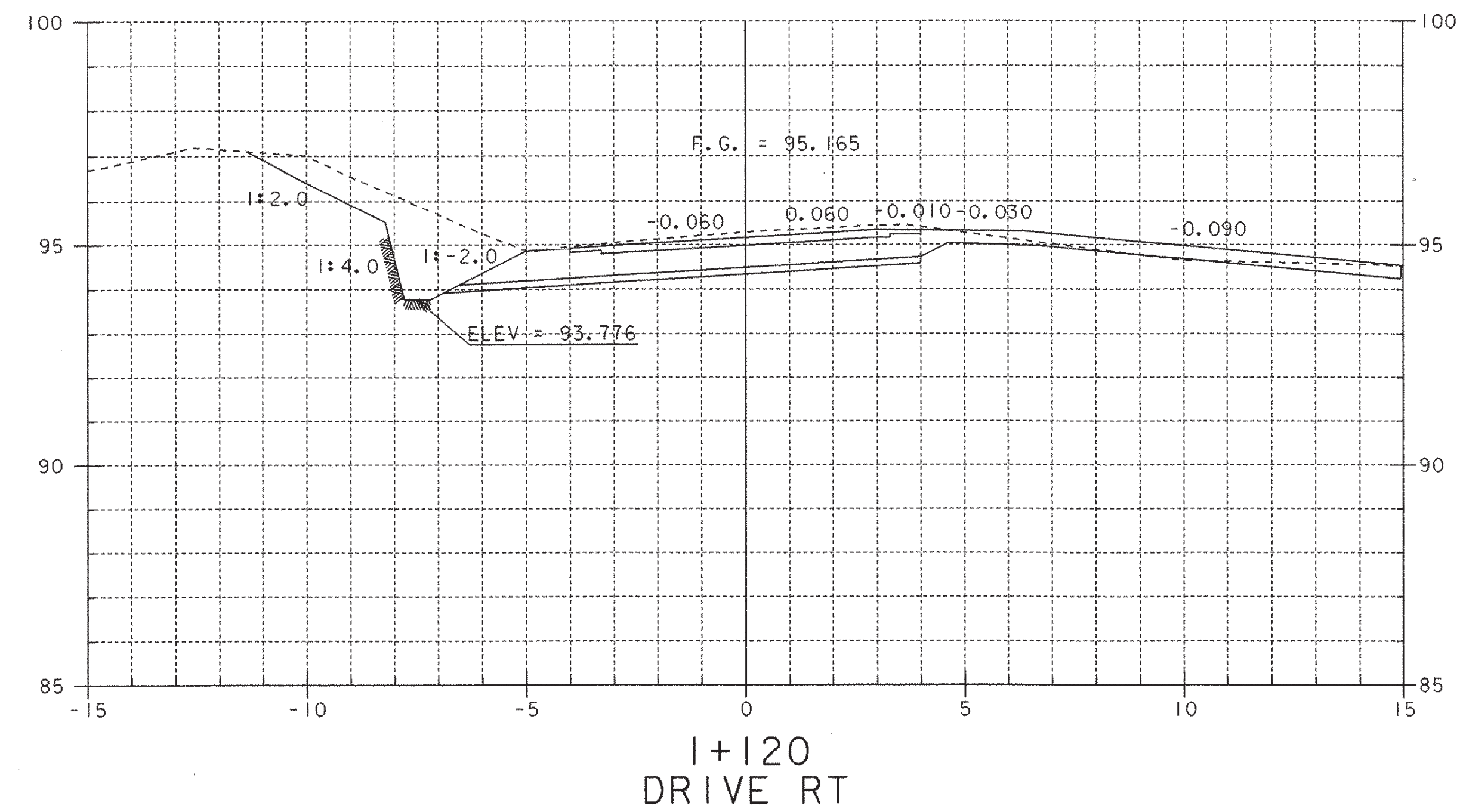
STA. I+070.000 LT
END STONE FILL, TYPE 1 DITCH

STA. I+068.000 RT
BEGIN DITCH
BEGIN STONE FILL, TYPE 1

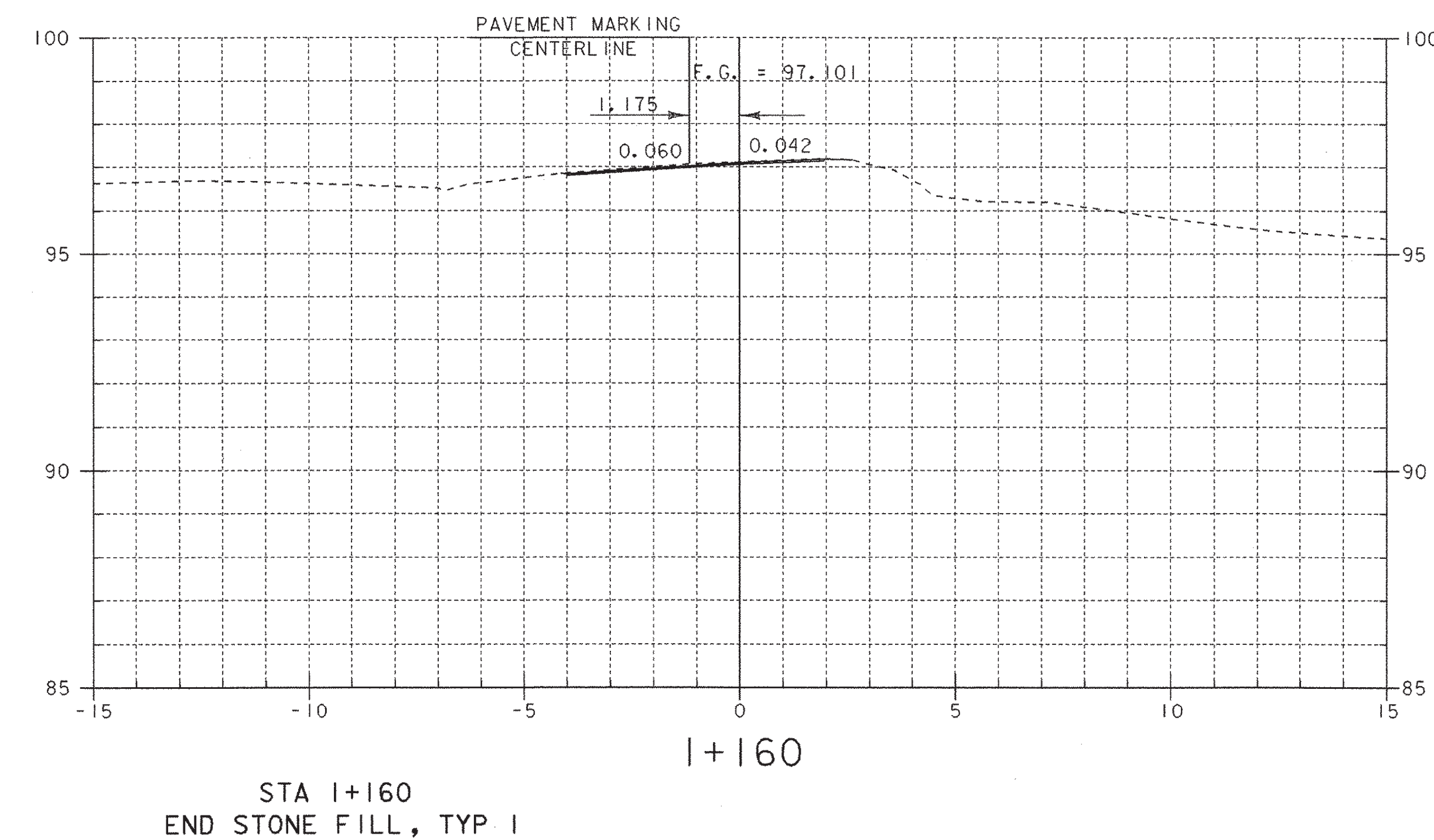
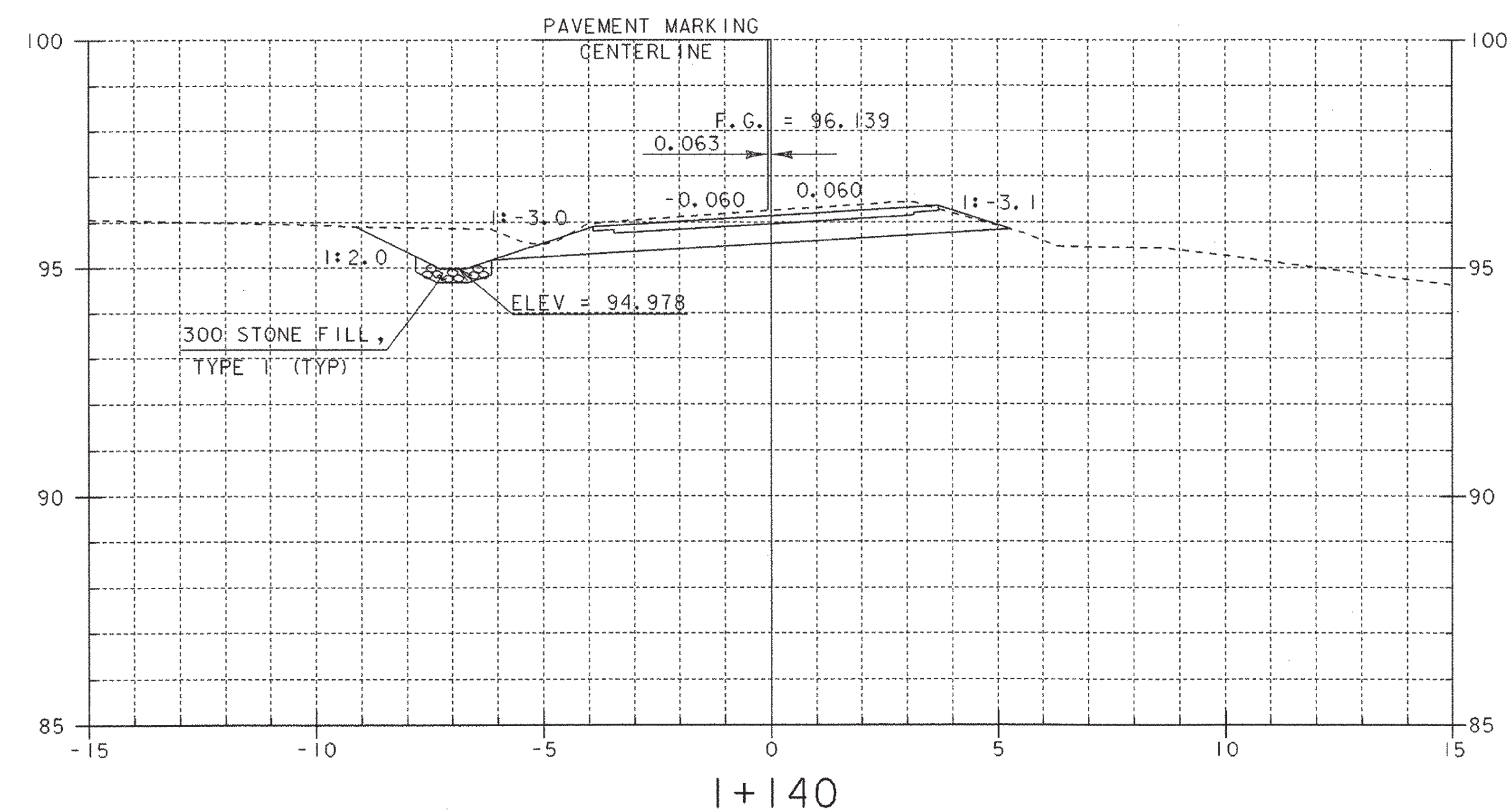
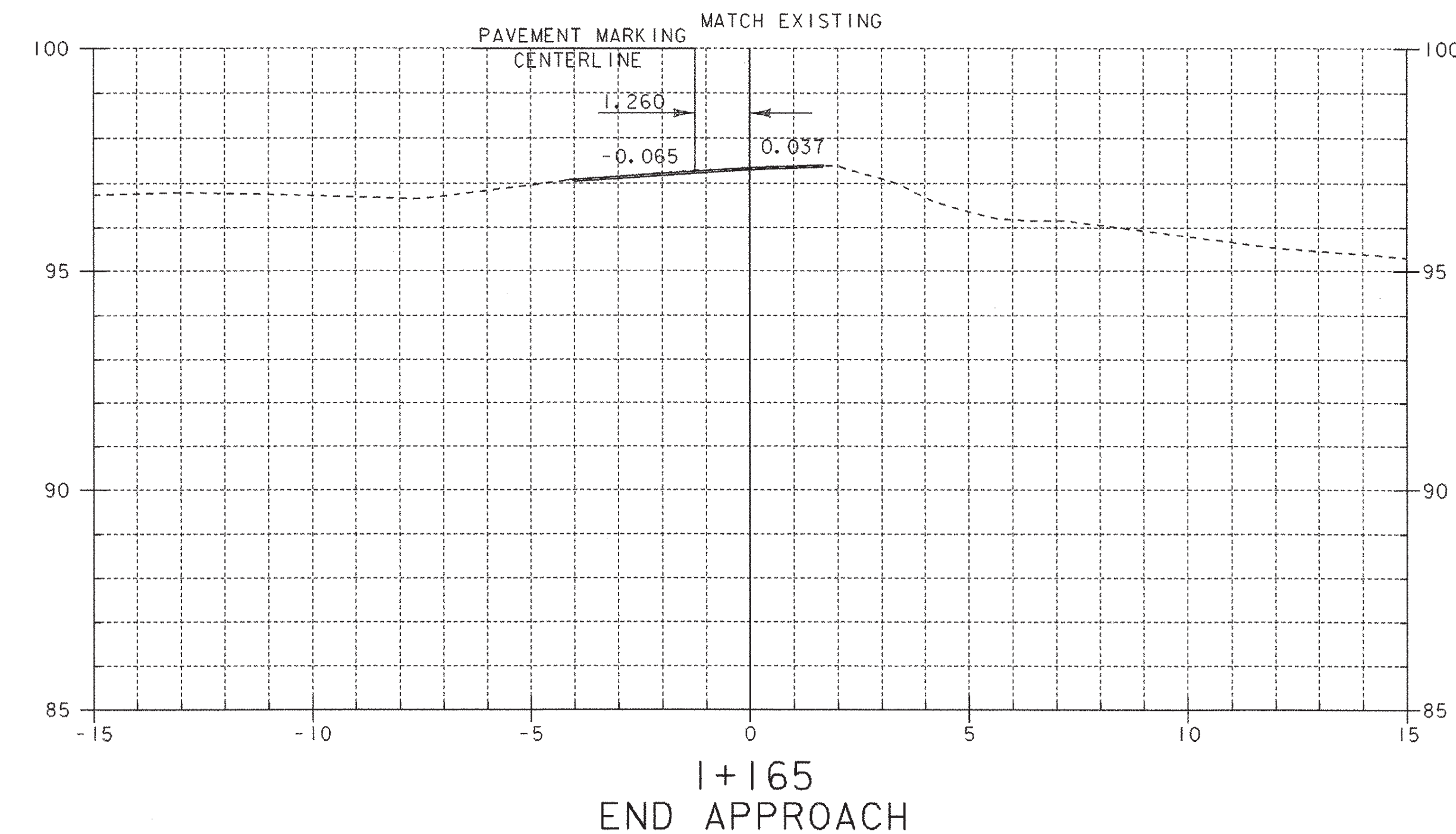
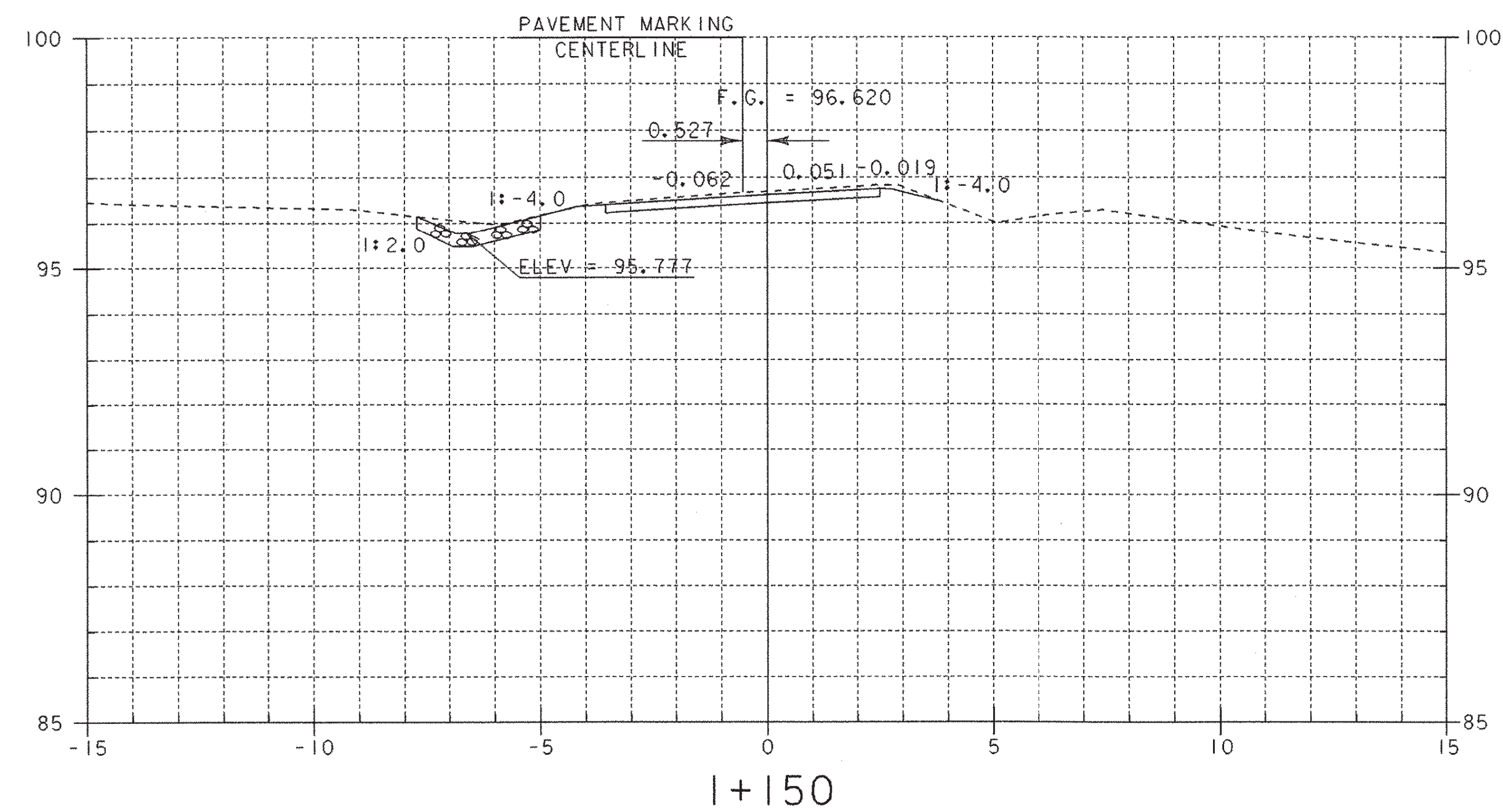
SHEET NAME: MAINLINE CROSS SECTIONS	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /s/r/93j021/sj021xs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021mx4.1
BRIDGE SHEET NUMBER:	SHEET 40 OF 53



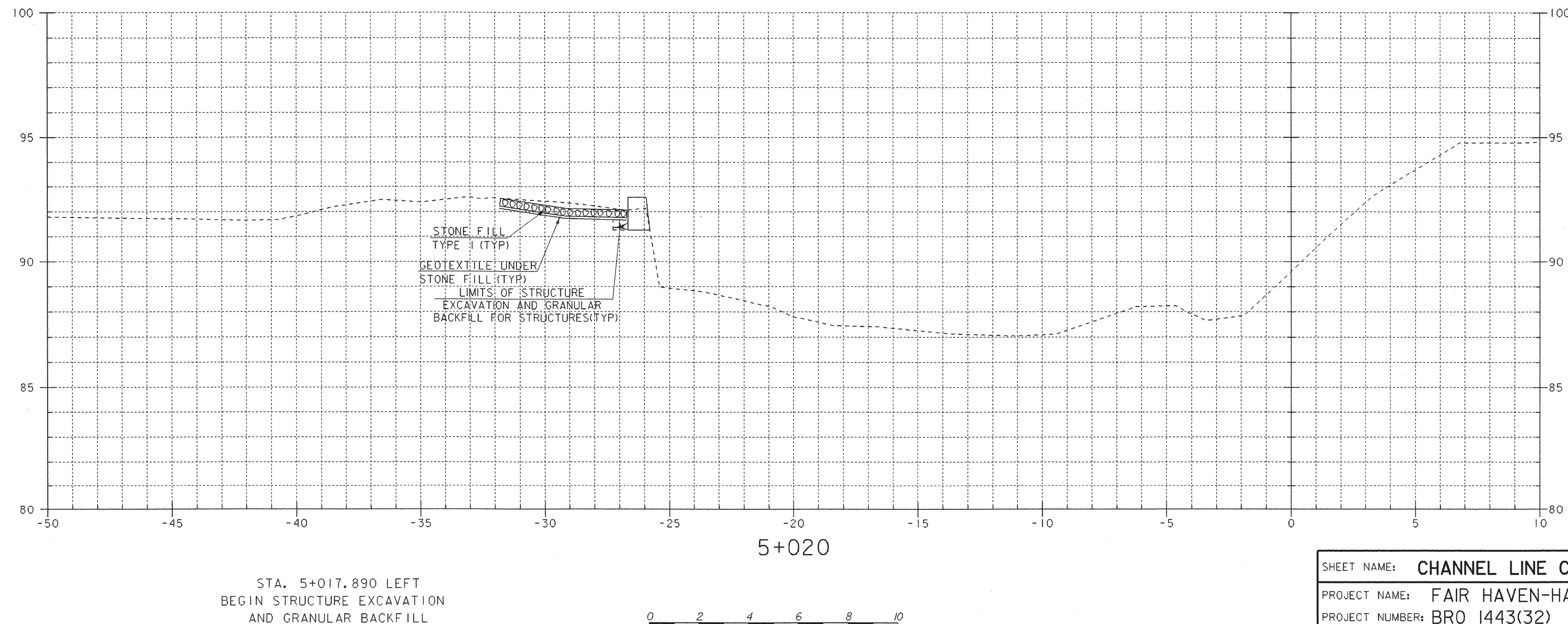
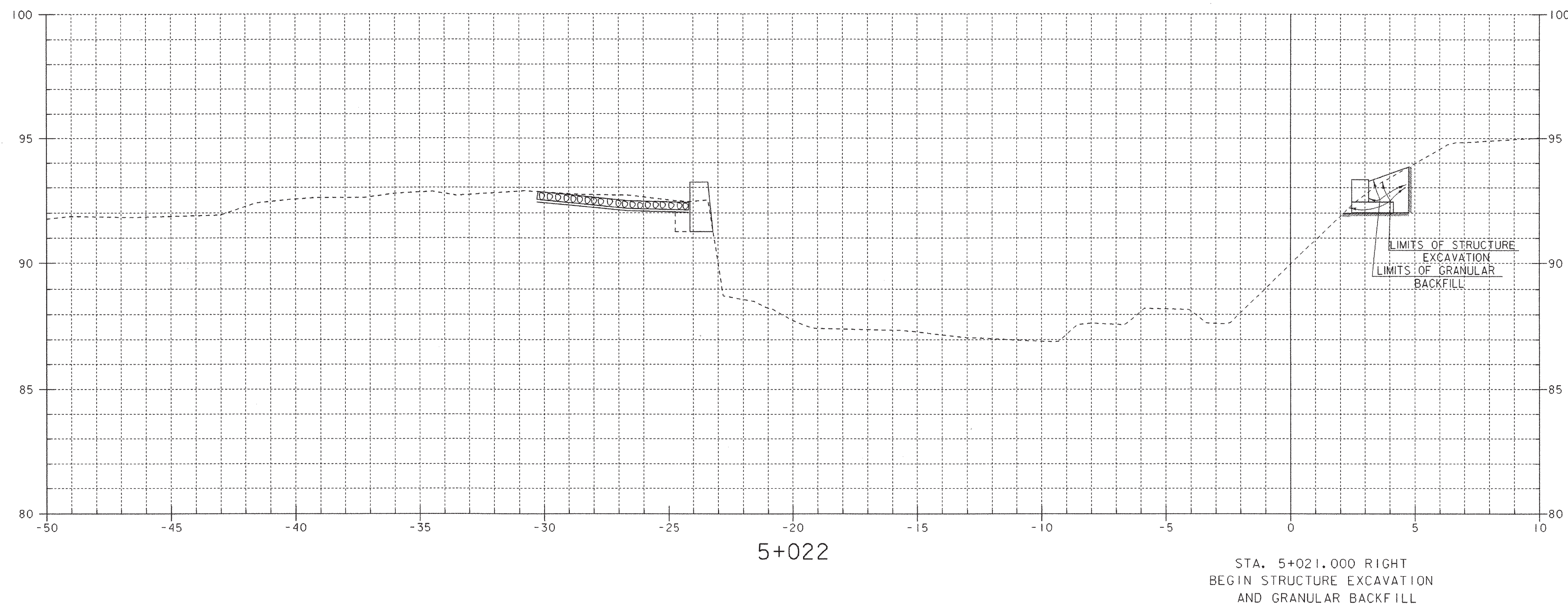
SHEET NAME: MAINLINE CROSS SECTIONS	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /s+r/93j021/sj021xs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021m5.I
BRIDGE SHEET NUMBER:	SHEET 41 OF 53



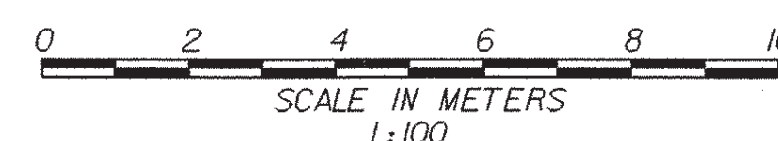
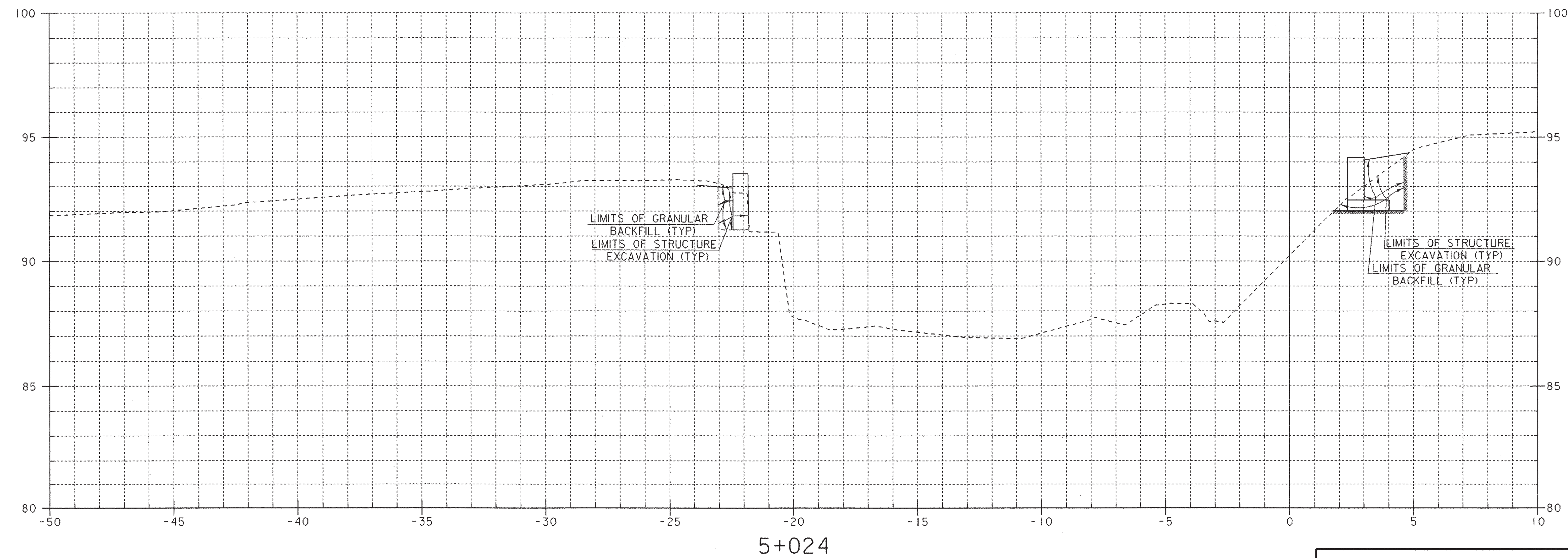
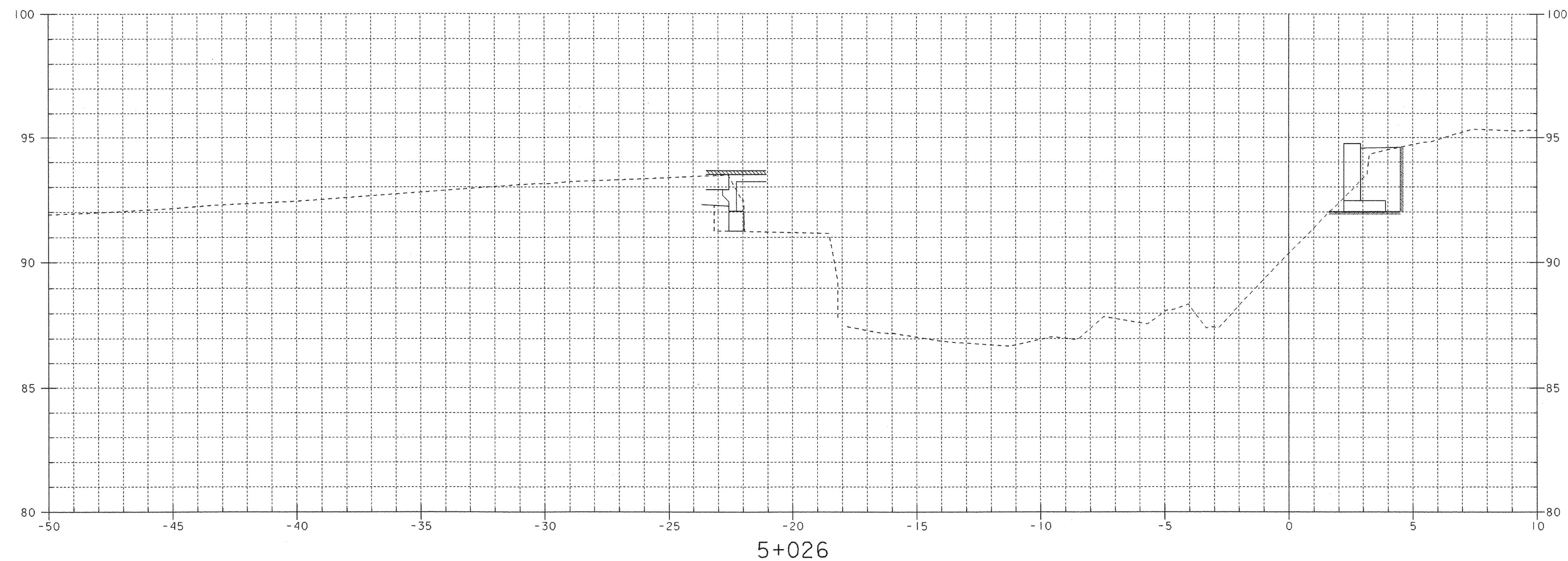
SHEET NAME: MAINLINE CROSS SECTIONS	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /s1r1/93j021/sj021xs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021mx6.1
BRIDGE SHEET NUMBER:	SHEET 42 OF 53



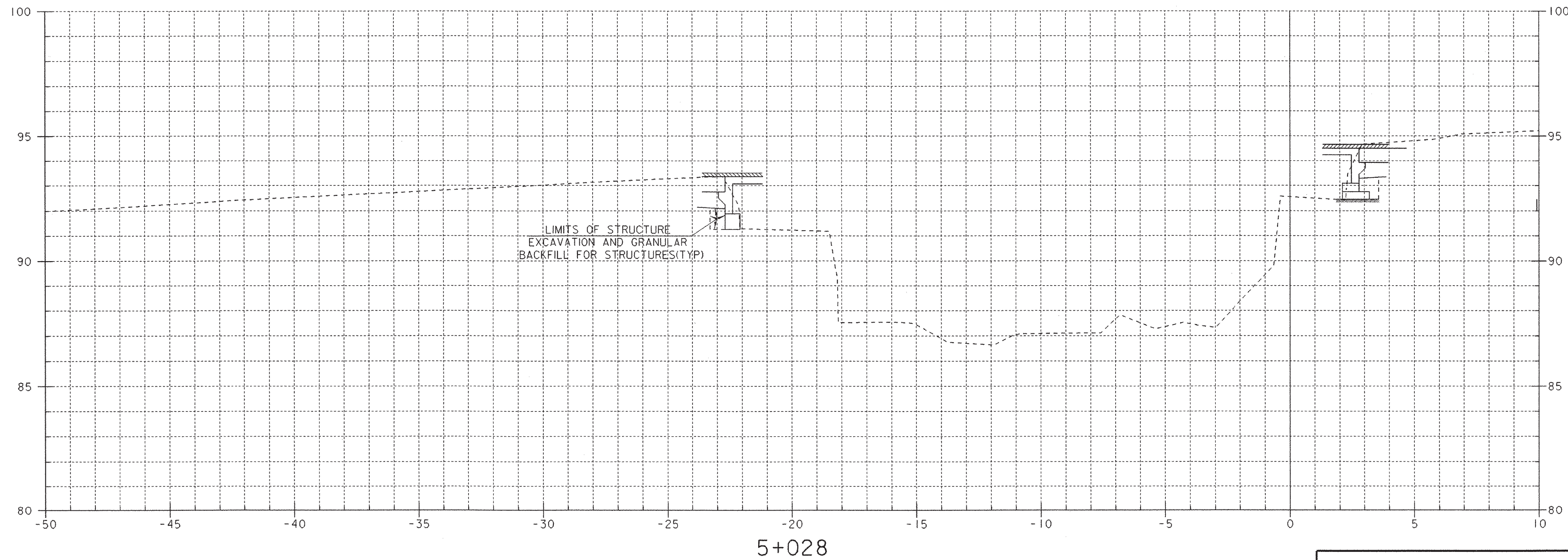
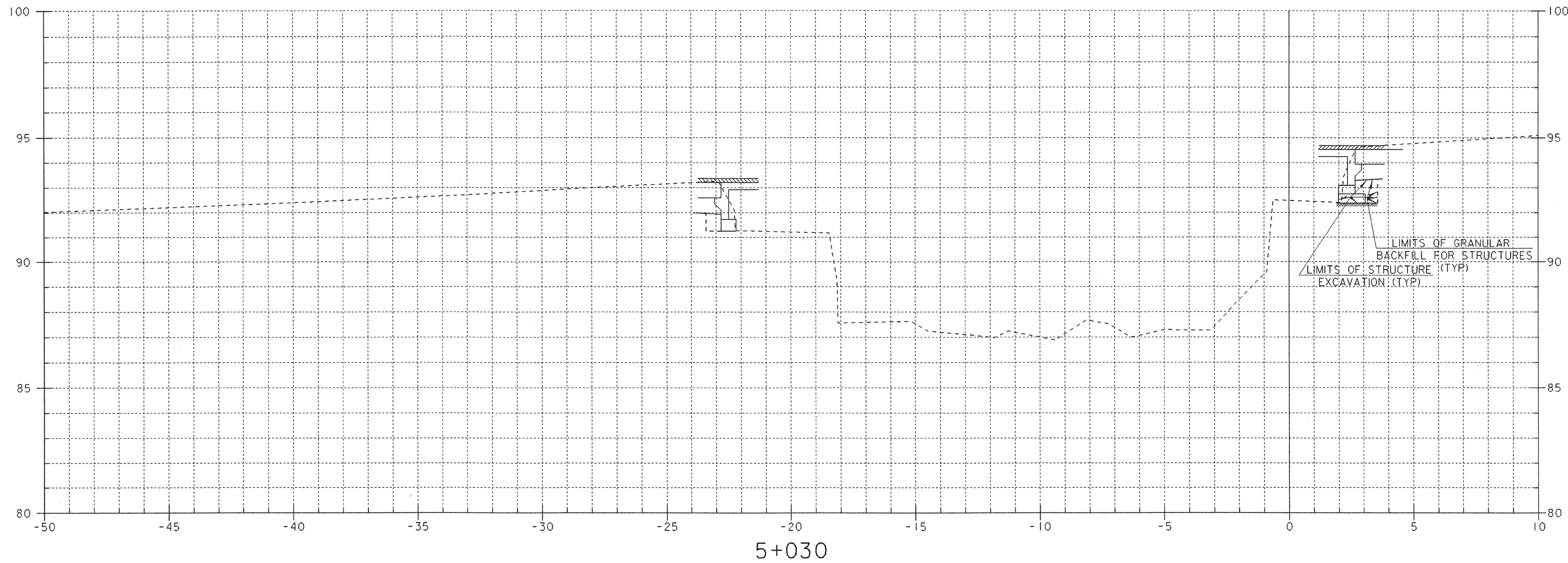
SHEET NAME: MAINLINE CROSS SECTIONS	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /str1/93j021/sj021xs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021mx7.1
BRIDGE SHEET NUMBER:	SHEET 43 OF 53



SHEET NAME: CHANNEL LINE CROSS SECTIONS	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /str1/93j021/sj021xs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021cx3.1
BRIDGE SHEET NUMBER:	SHEET 44 OF 53

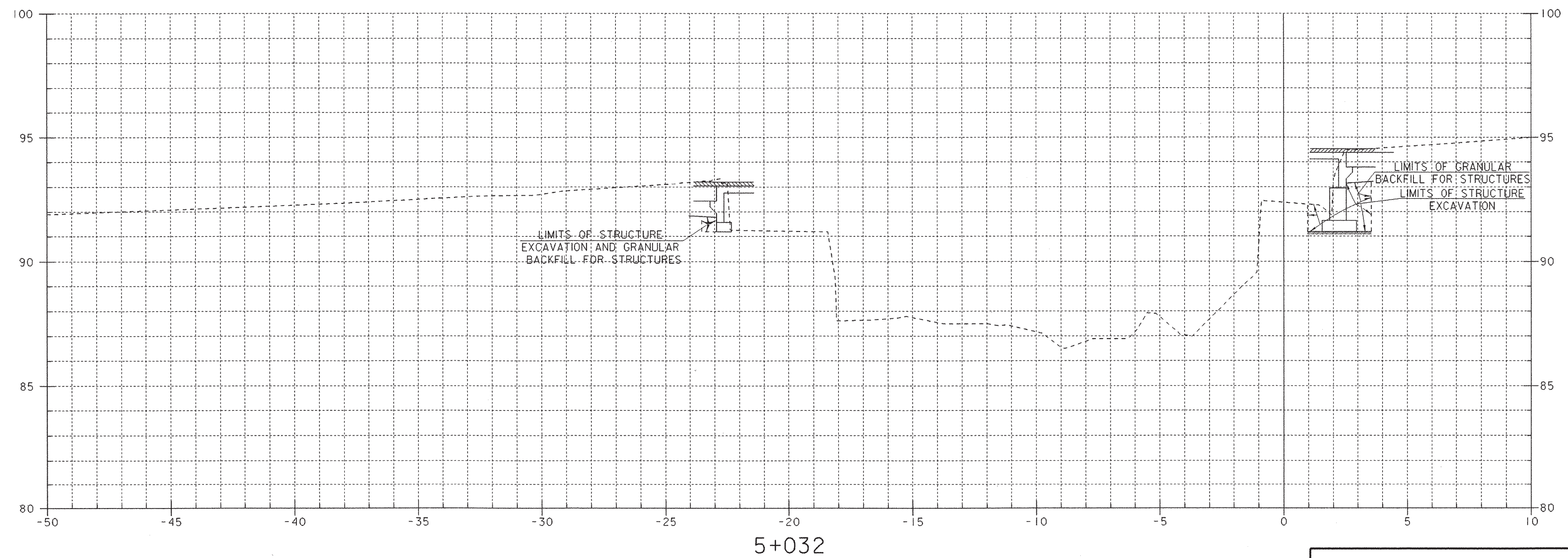
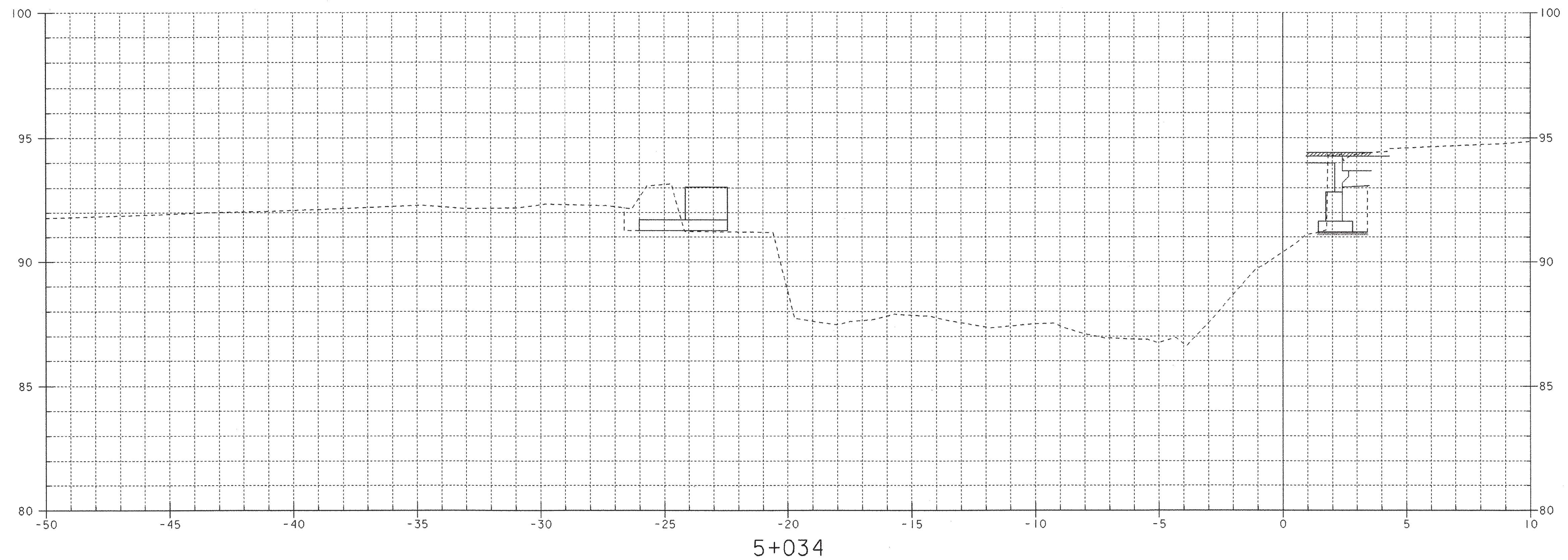


SHEET NAME: CHANNEL LINE CROSS SECTIONS	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /s1r1/93j021/sj021xs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021cx4.1
BRIDGE SHEET NUMBER:	SHEET 45 OF 53

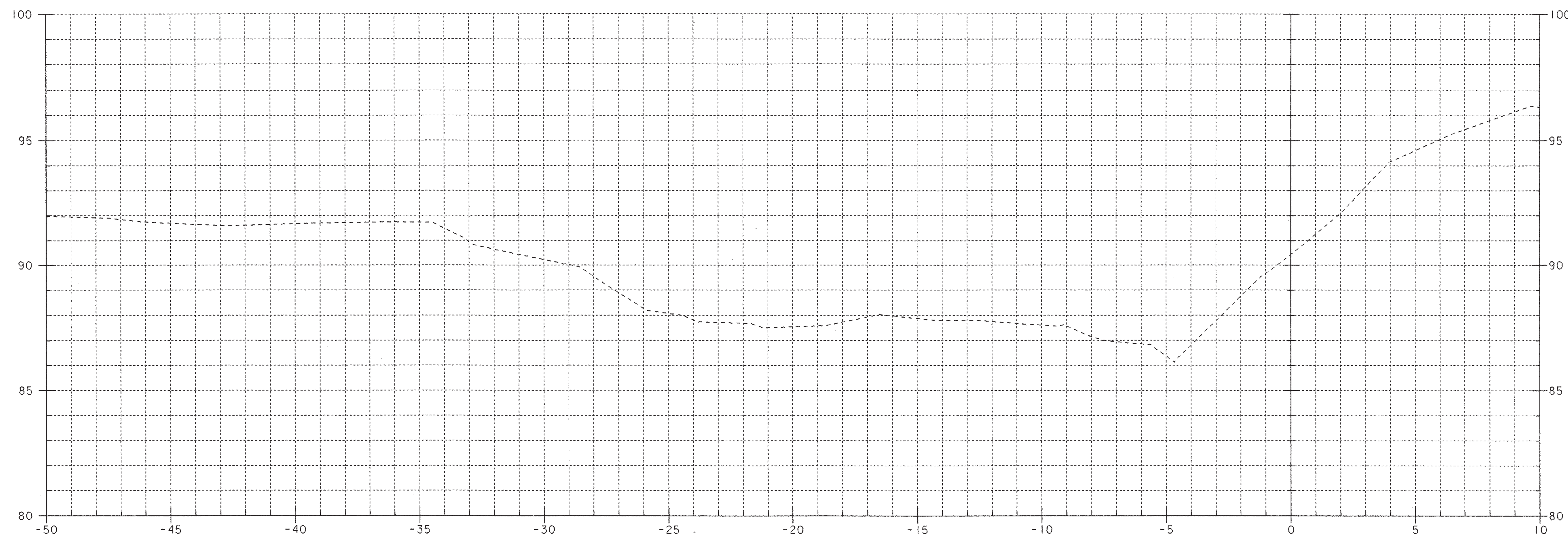


0 2 4 6 8 10
SCALE IN METERS
1:100

SHEET NAME: CHANNEL LINE CROSS SECTIONS	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /s1r1/93j021/sj021xs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021cx5.1
BRIDGE SHEET NUMBER:	SHEET 46 OF 53

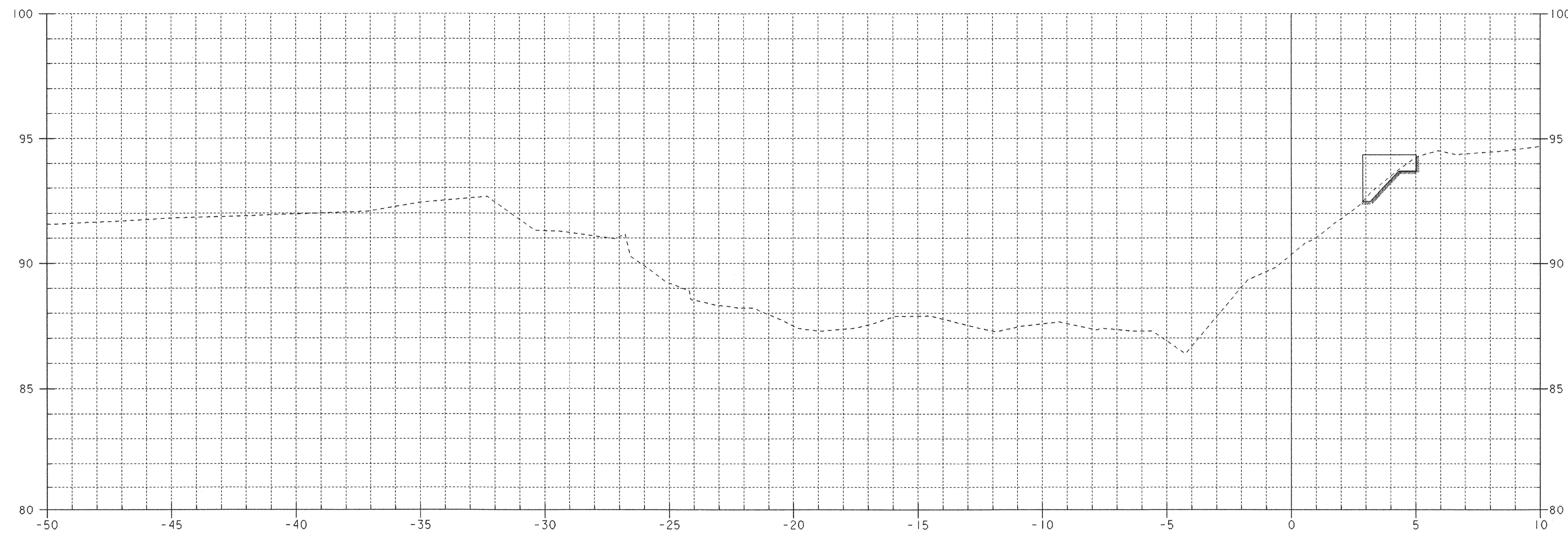


SHEET NAME: CHANNEL LINE CROSS SECTIONS	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /str1/93j021/sj021xs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STR1
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021cx6.1
BRIDGE SHEET NUMBER:	SHEET 47 OF 53



5+040

STA. 5+036.490 RIGHT END STRUCTURE
EXCAVATION AND GRANULAR BACKFILL

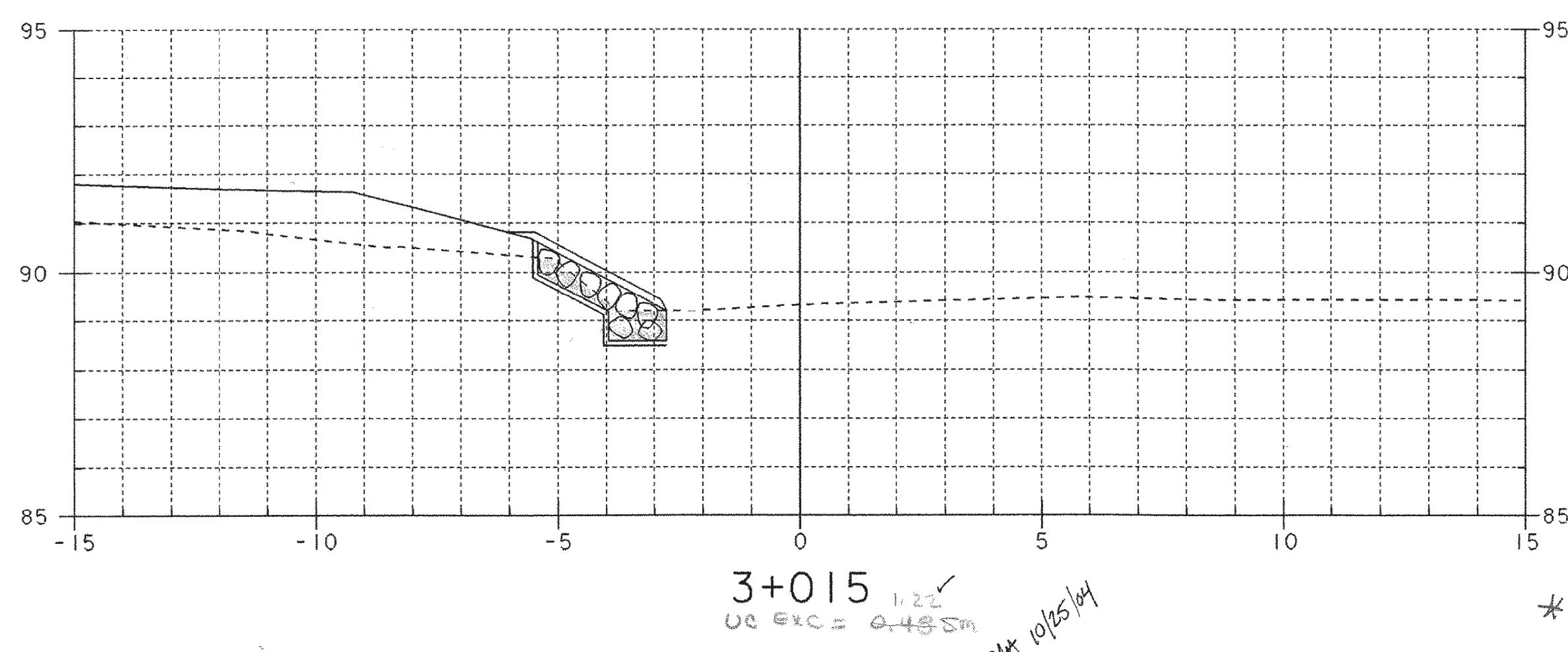
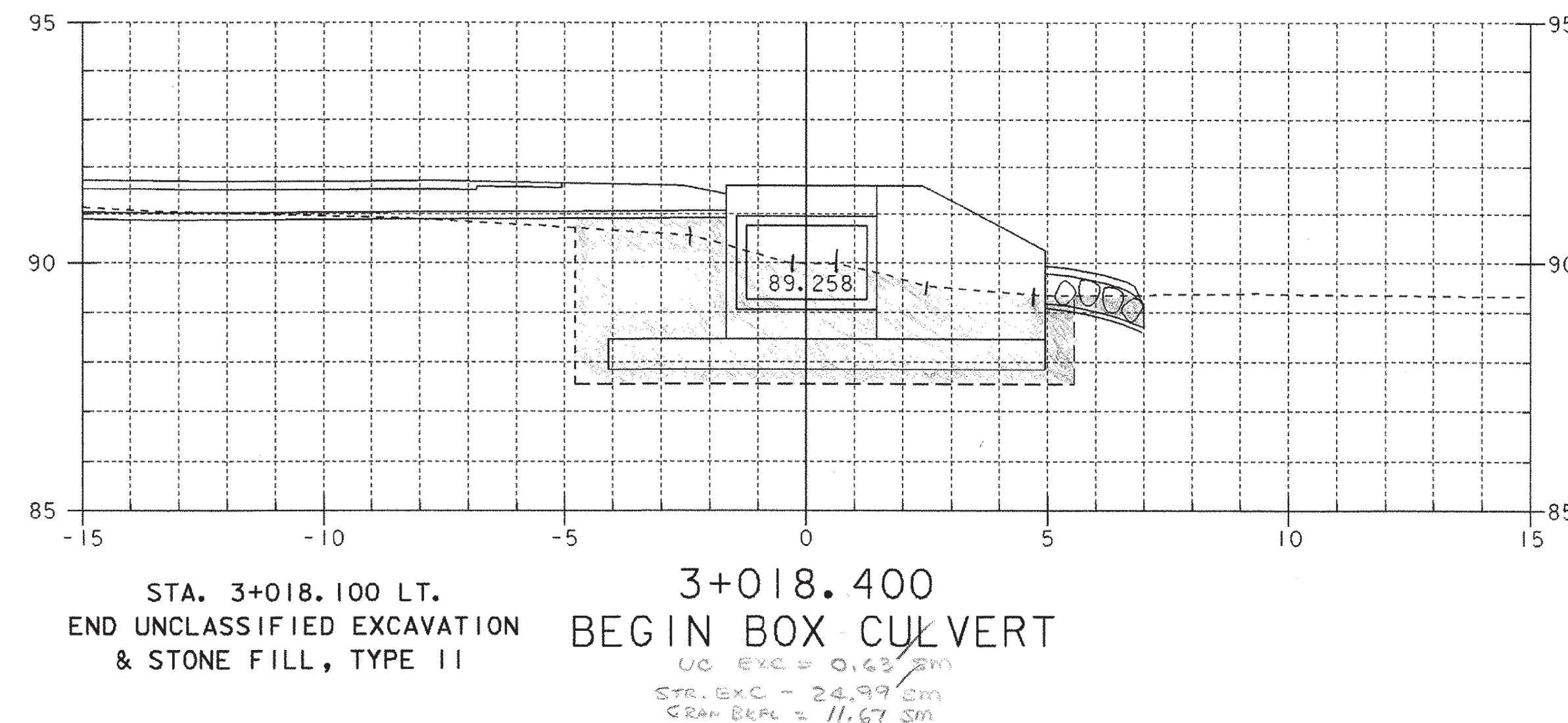
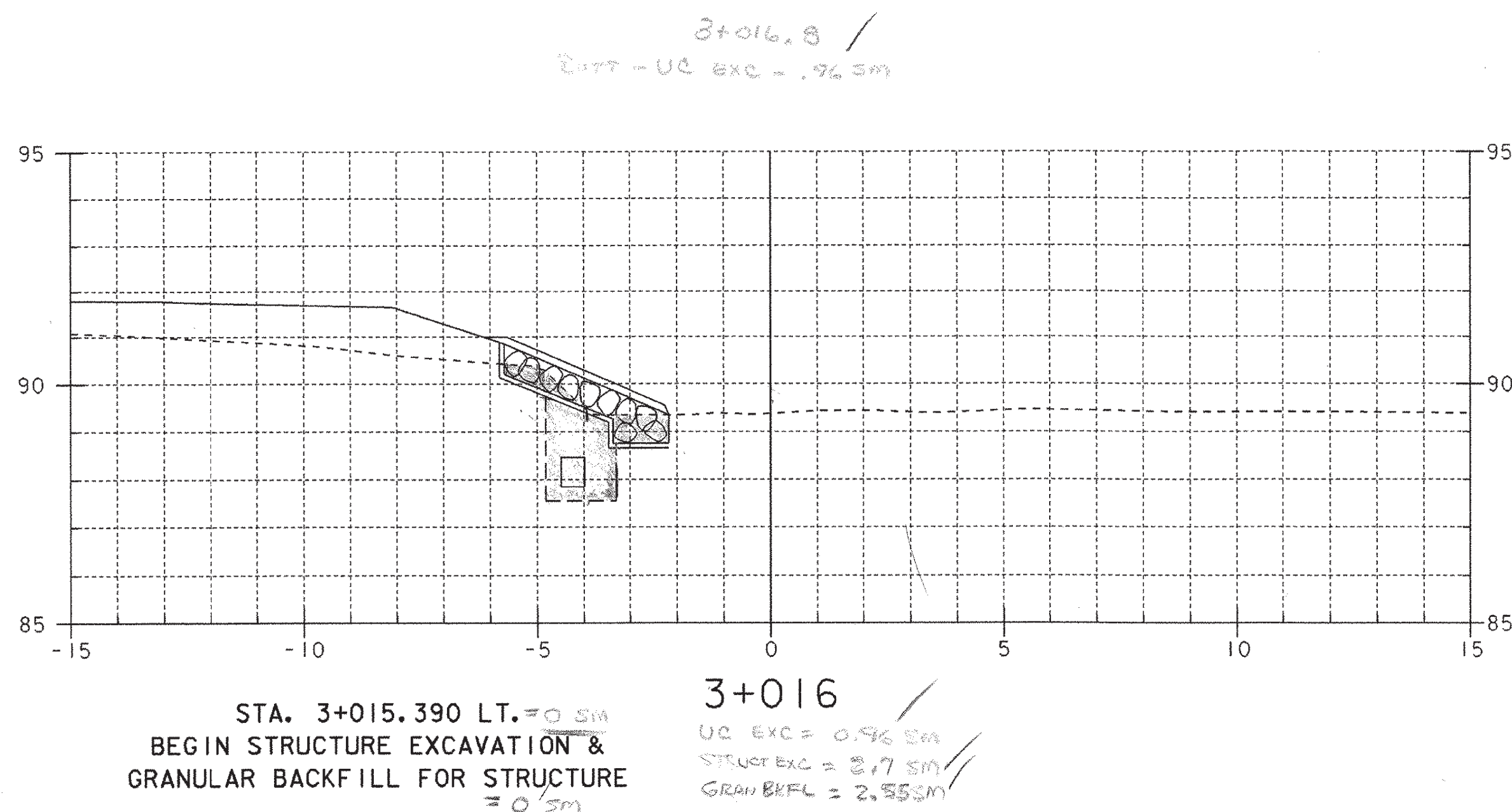


5+036

STA. 5+034.660 LEFT
END STRUCTURE EXCAVATION
AND GRANULAR BACKFILL

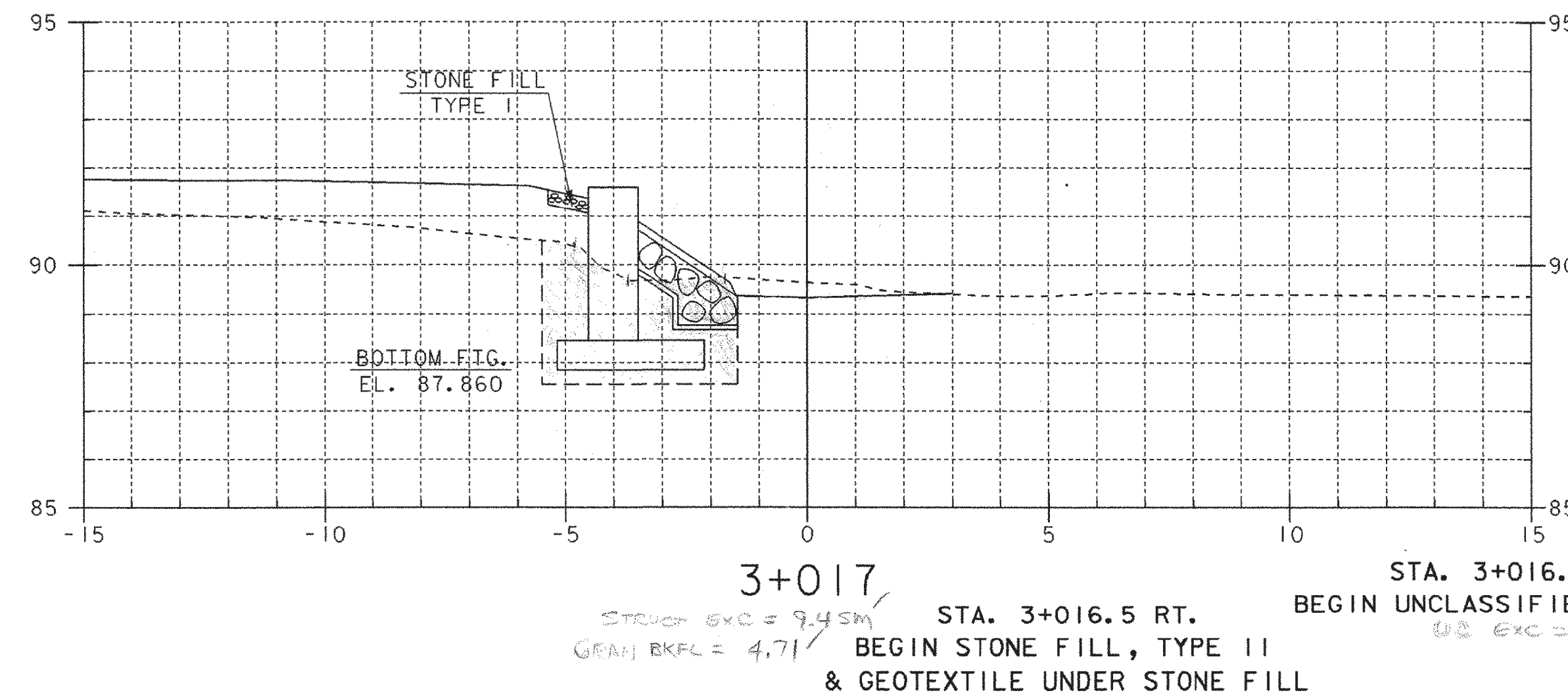
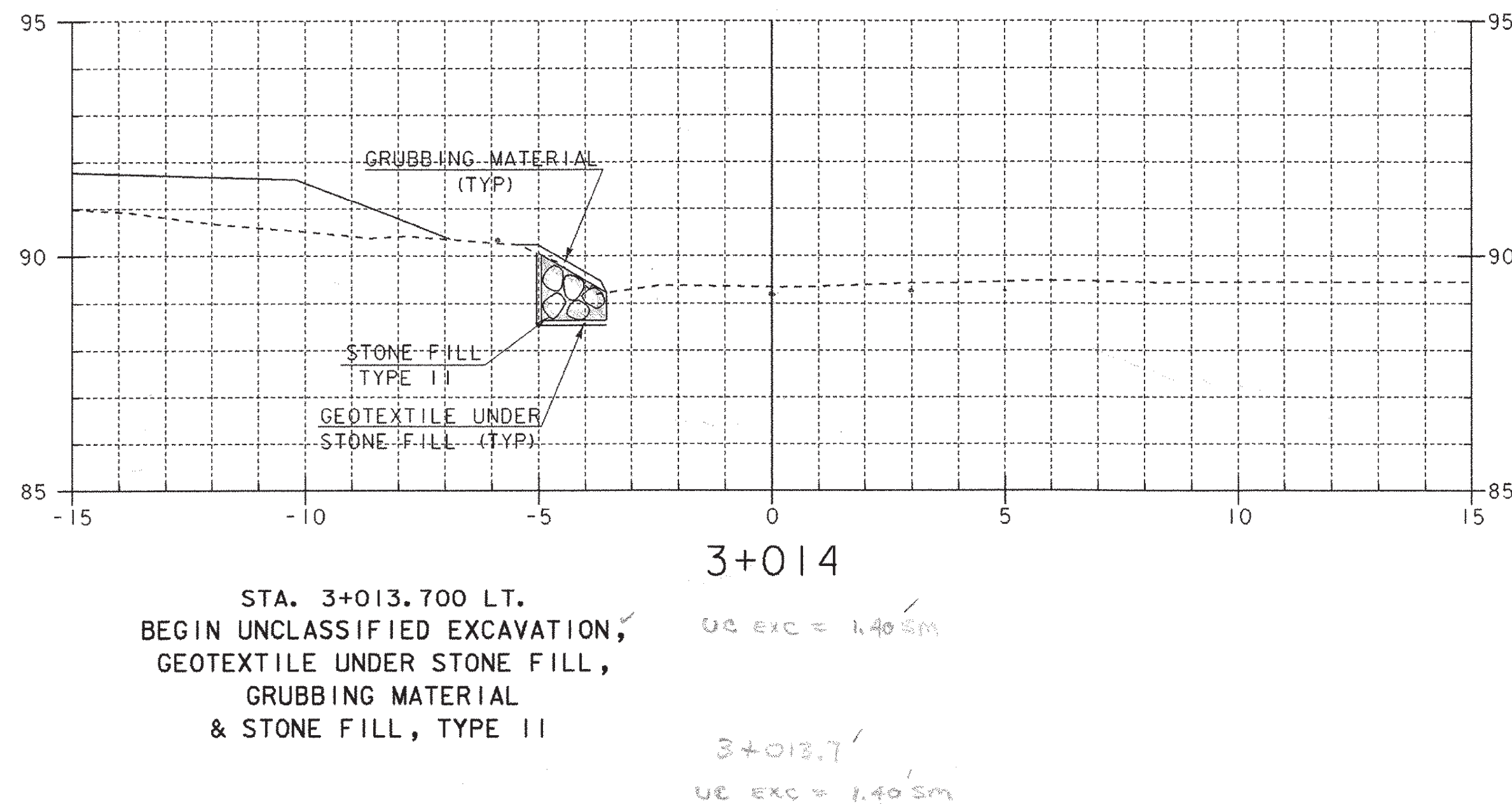
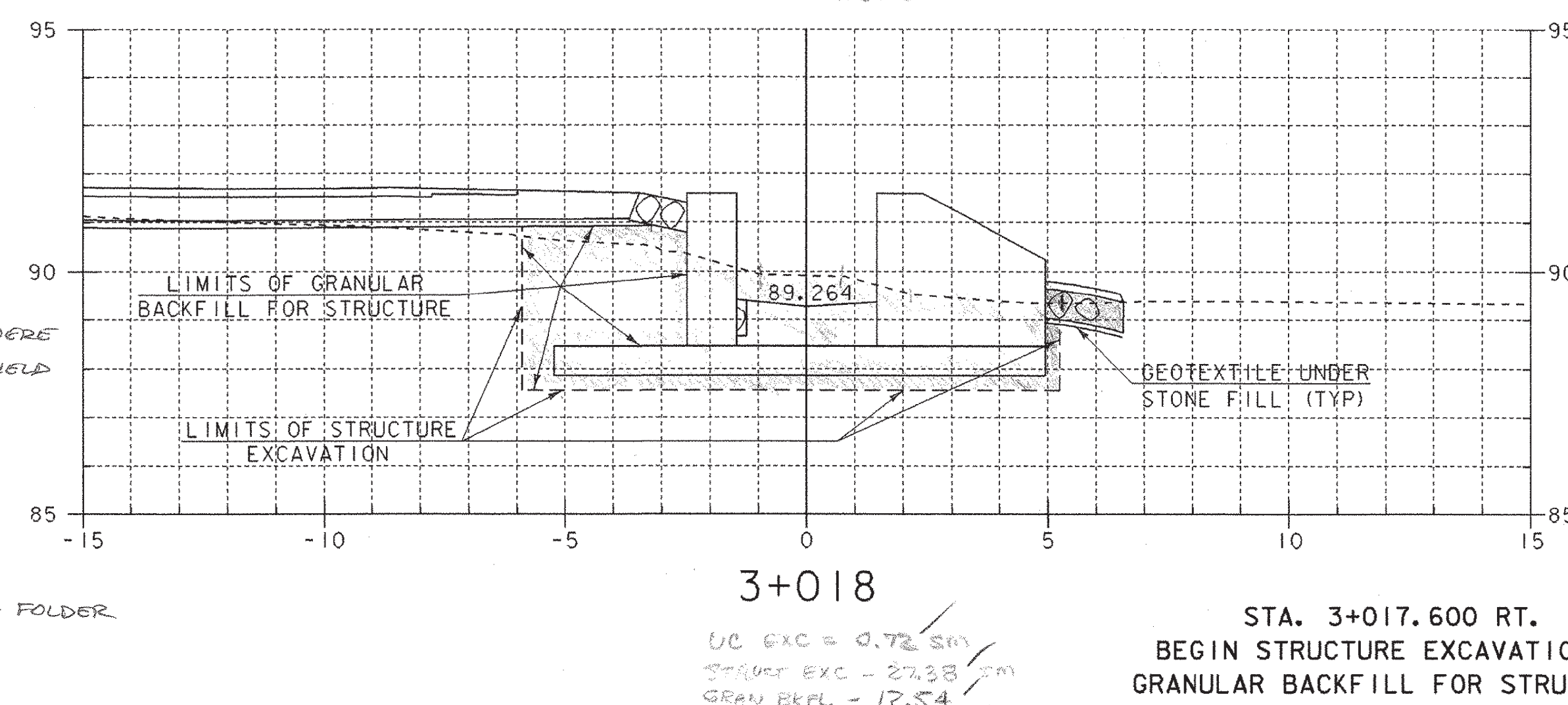


SHEET NAME: CHANNEL LINE CROSS SECTIONS	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /str1/93j021/sj021xs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021cx7.1
BRIDGE SHEET NUMBER:	SHEET 48 OF 53



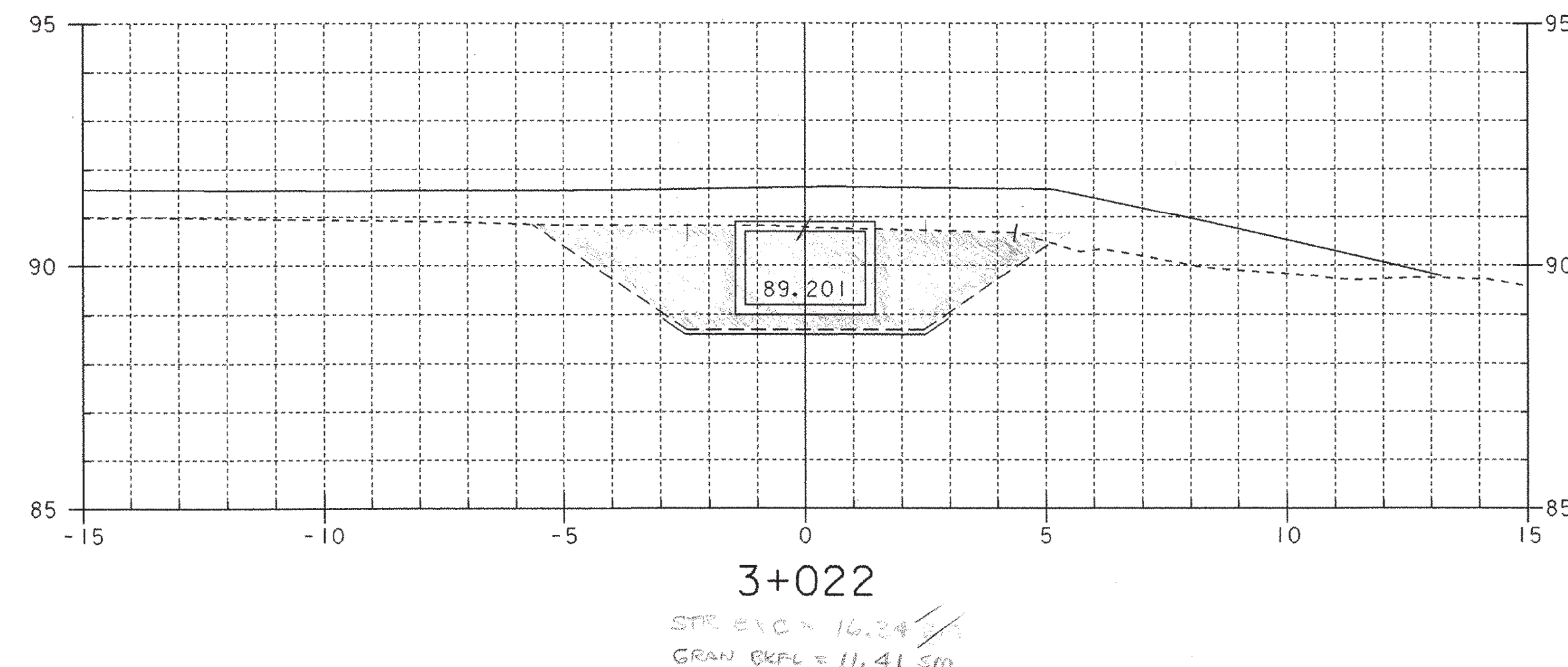
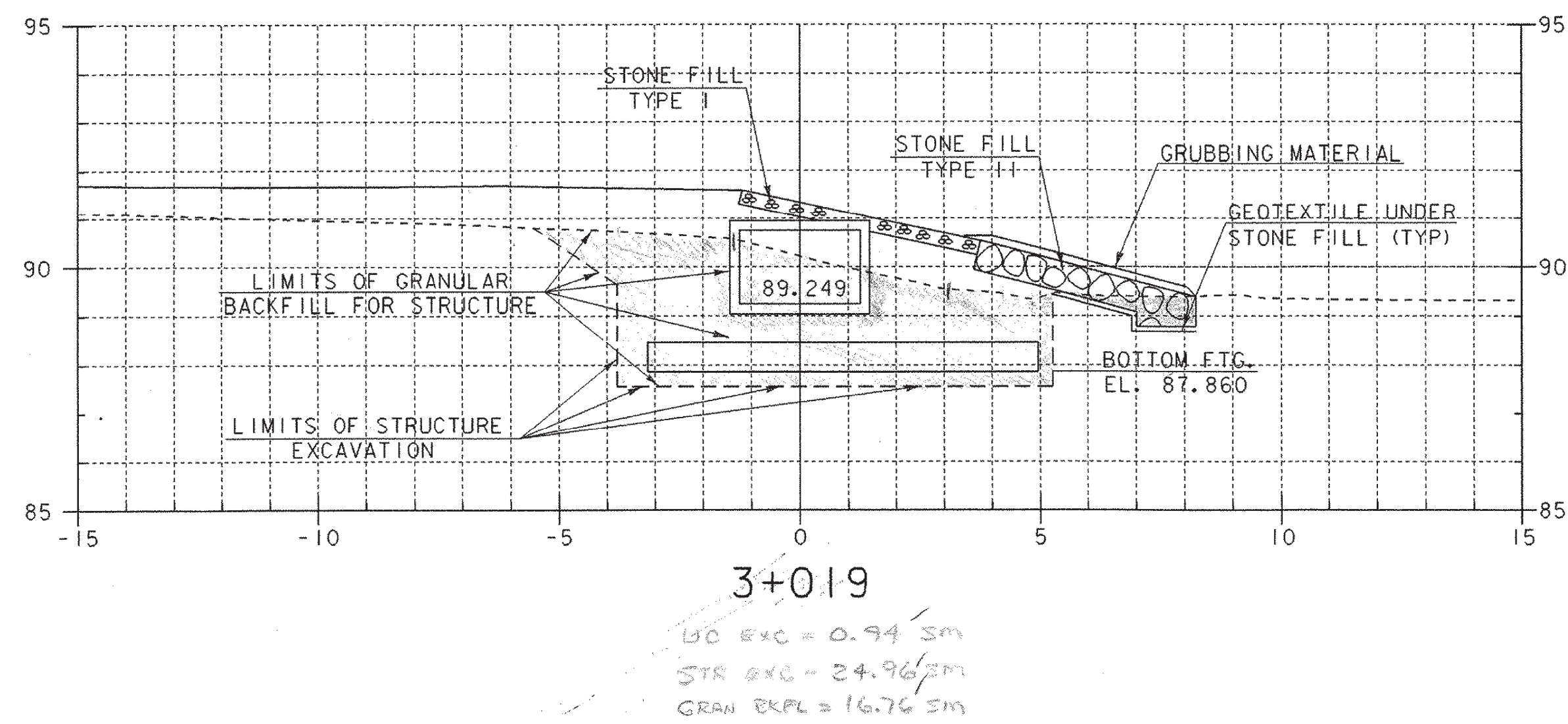
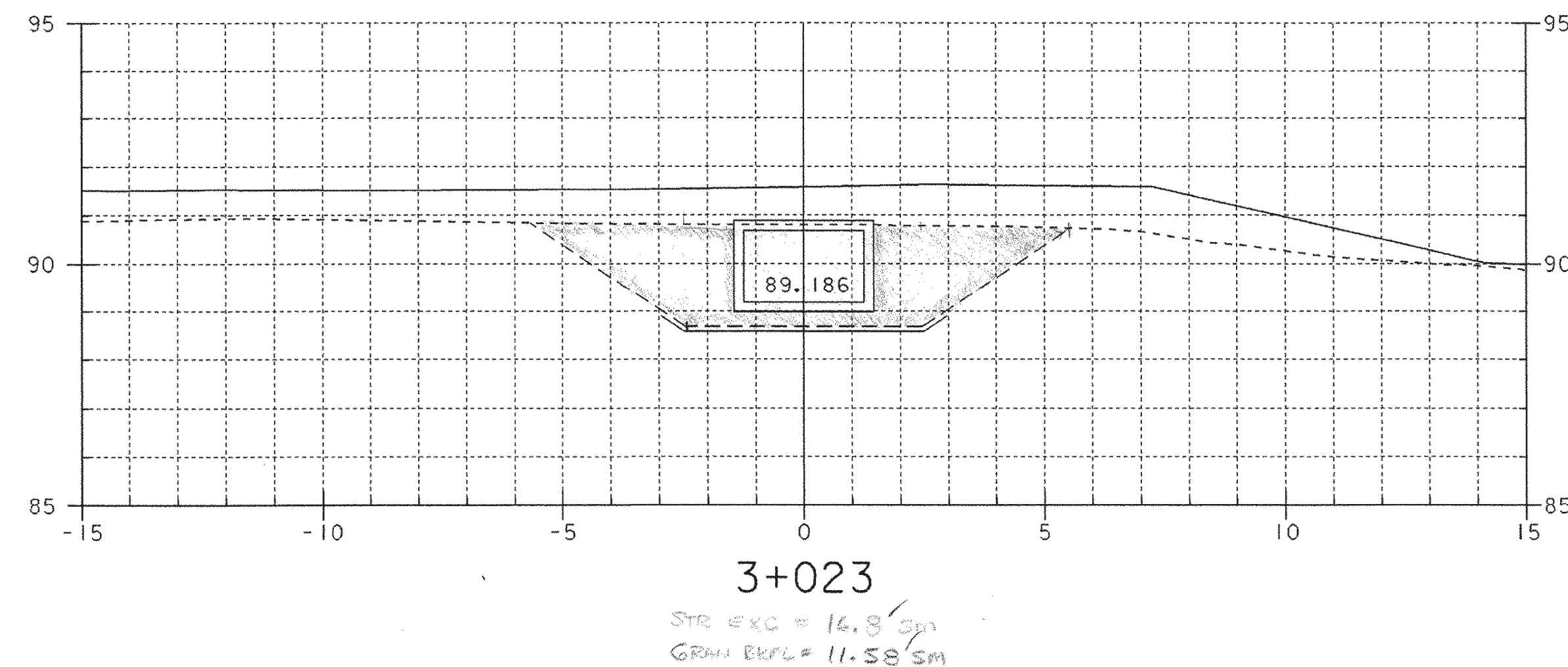
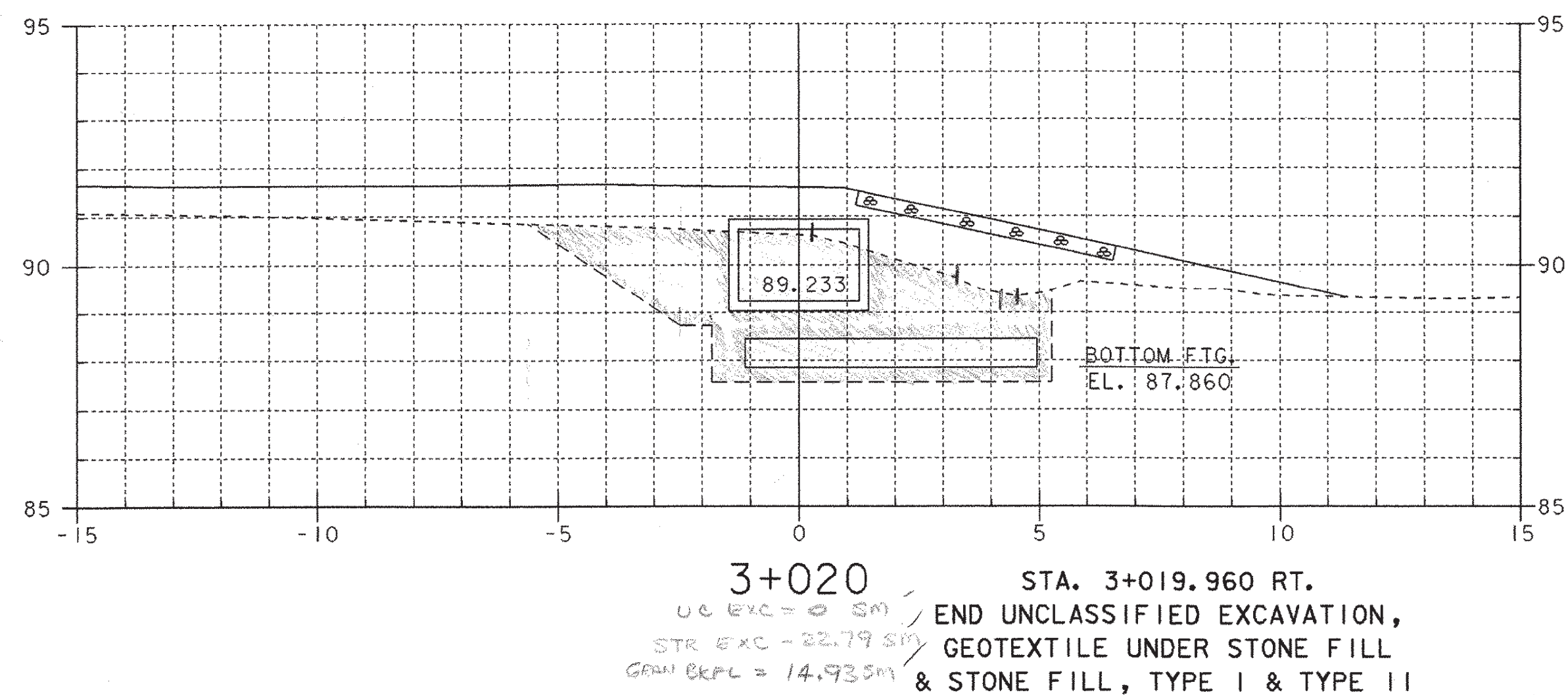
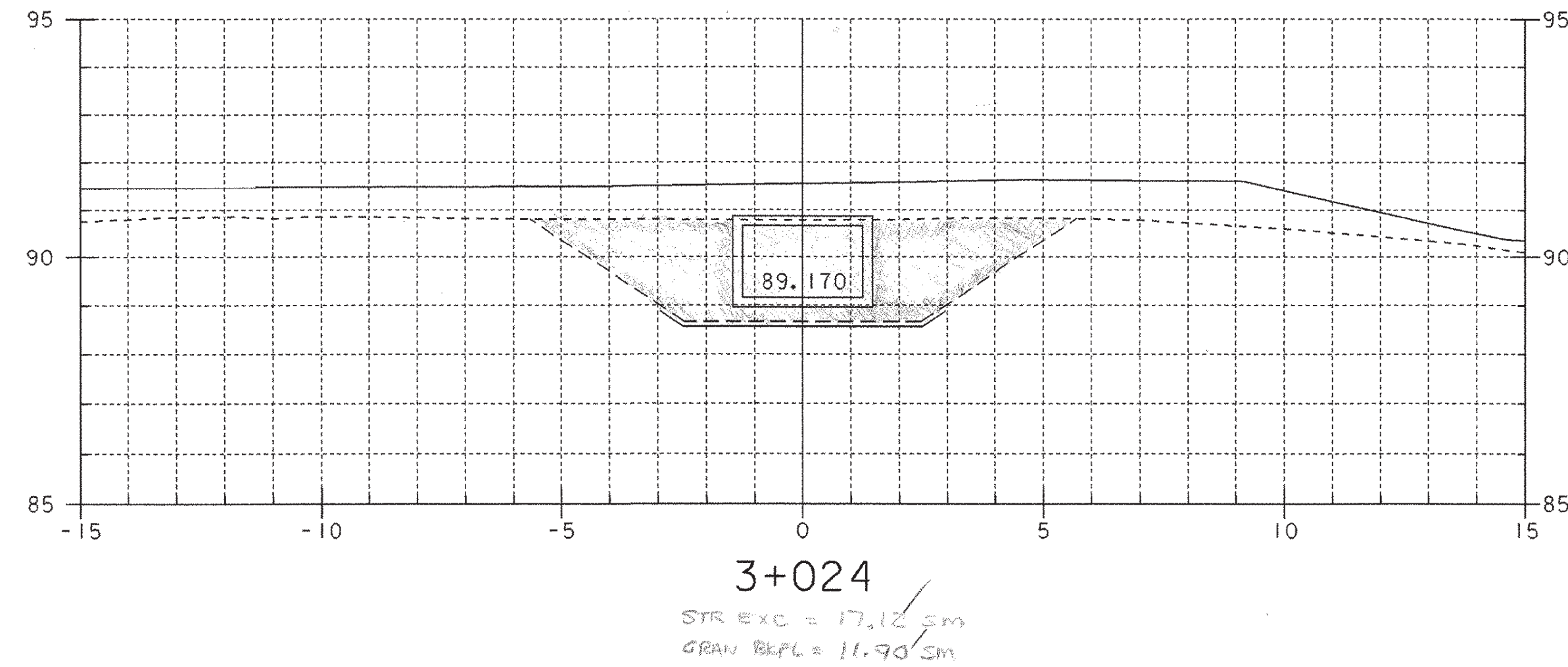
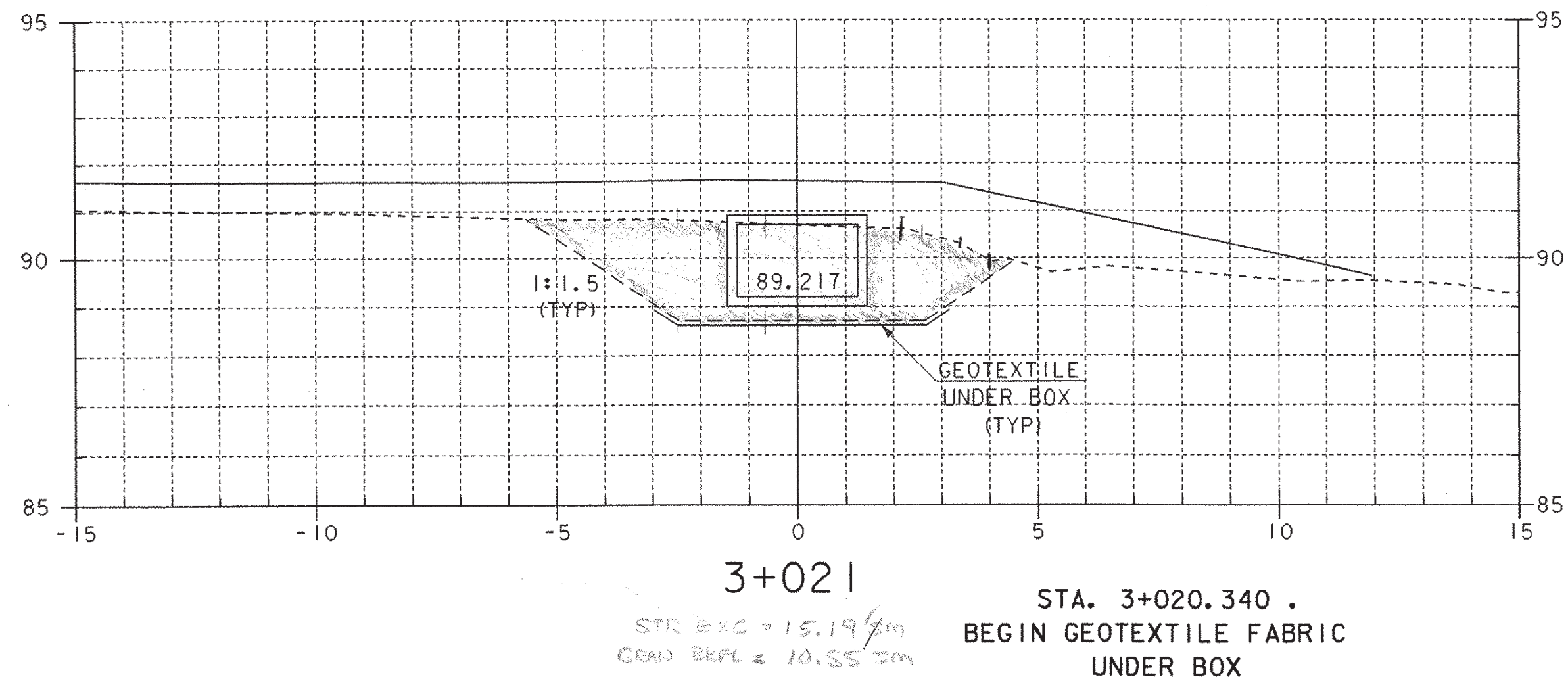
PRECAST BOX
PLAN X-SECTIONS.
* THESE SECTIONS WERE
CHECKED IN THE FIELD
BY RETAKING THE
ORIGINALS.
BOX WAS BUILT AS
PER PLANS.

* SEE LOOSE LEAF FOLDER
FOR CALCULATIONS



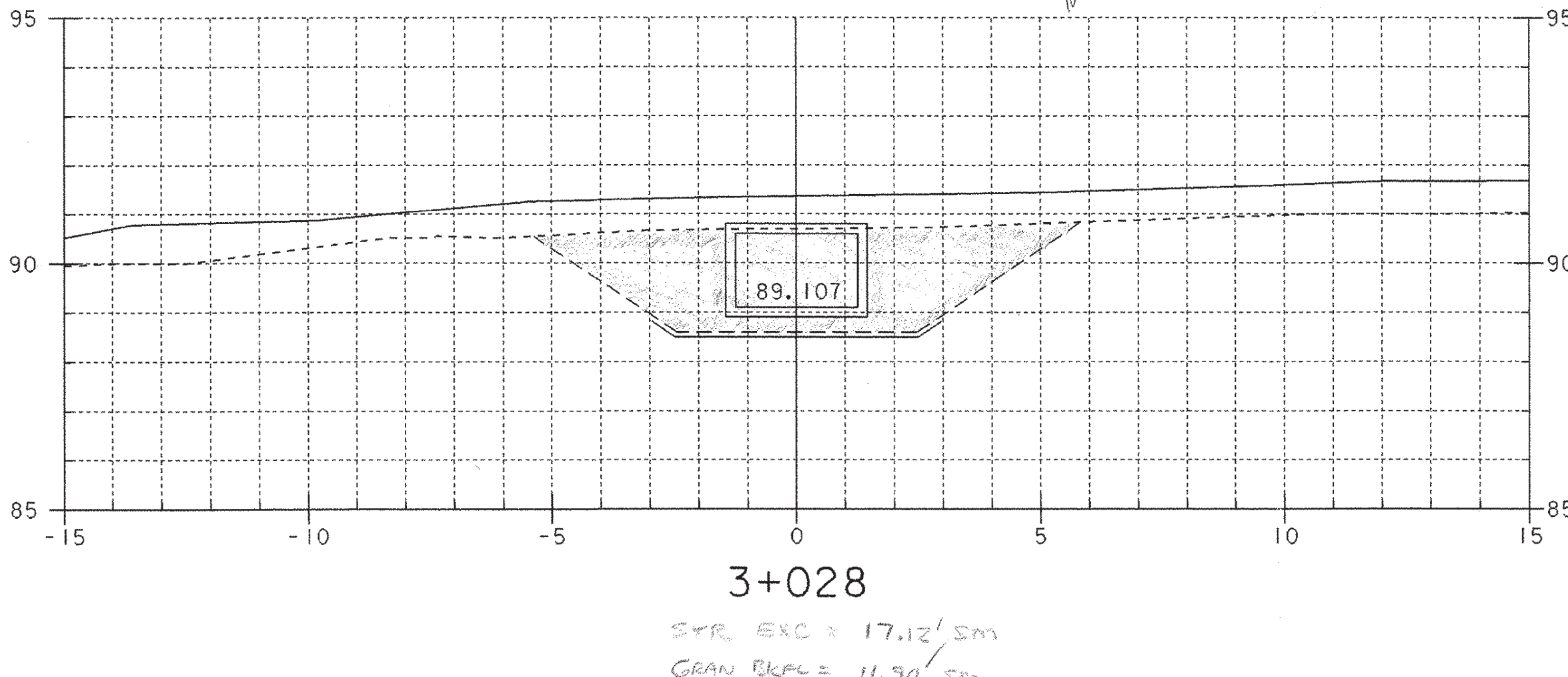
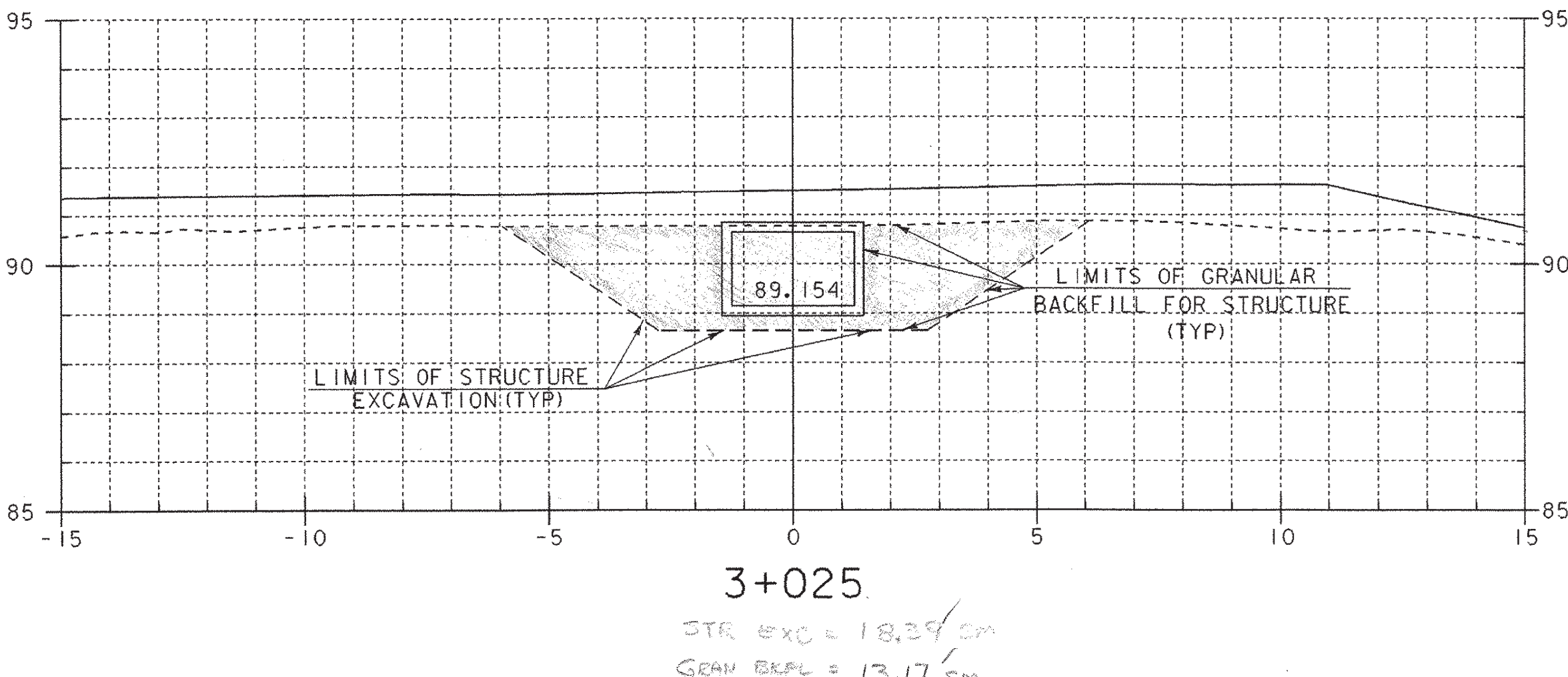
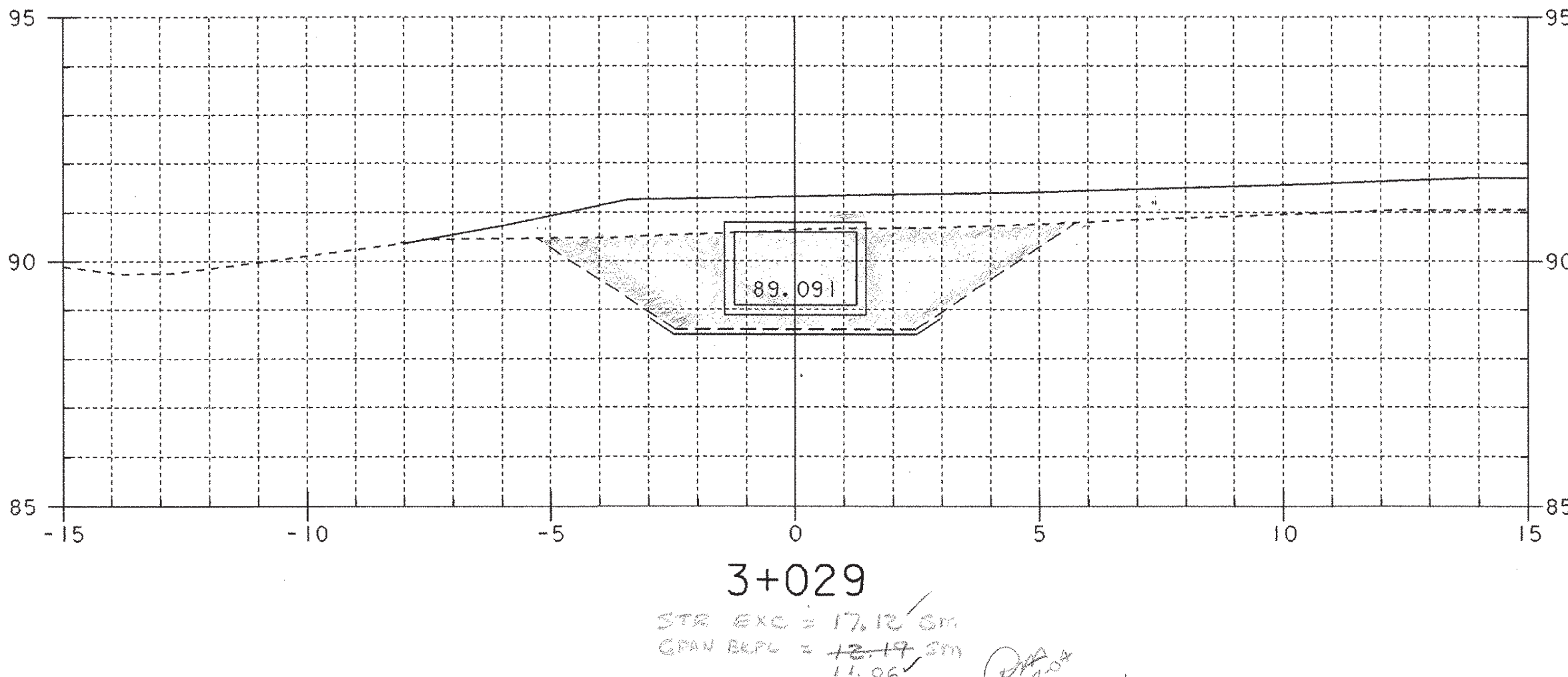
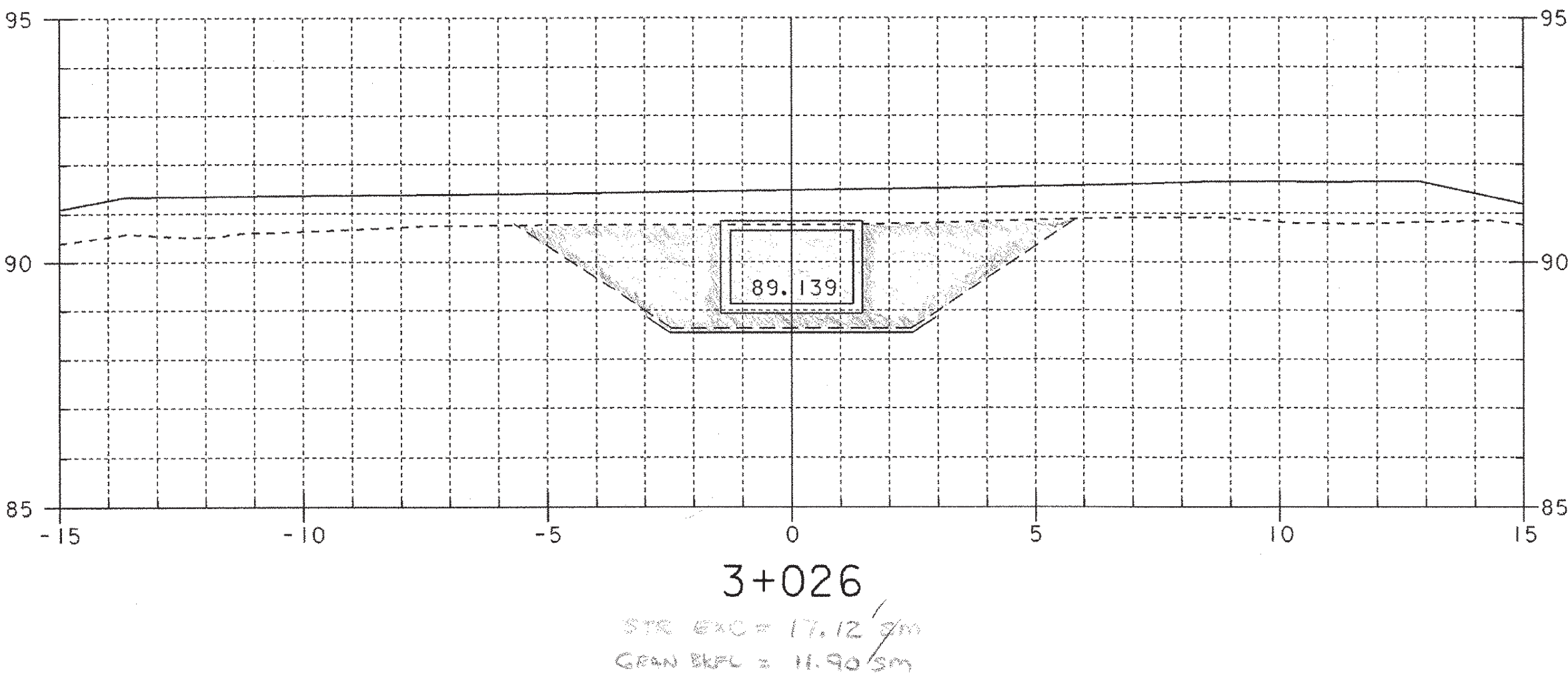
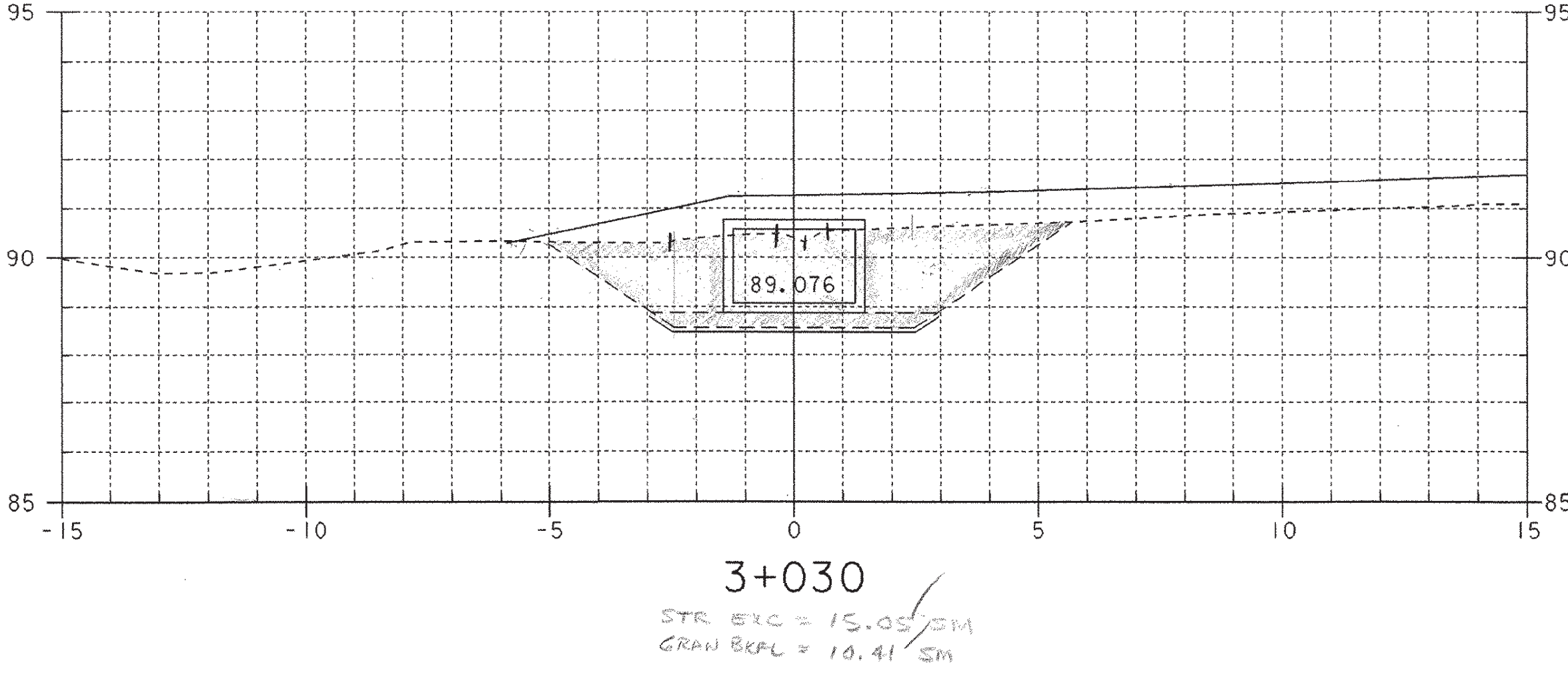
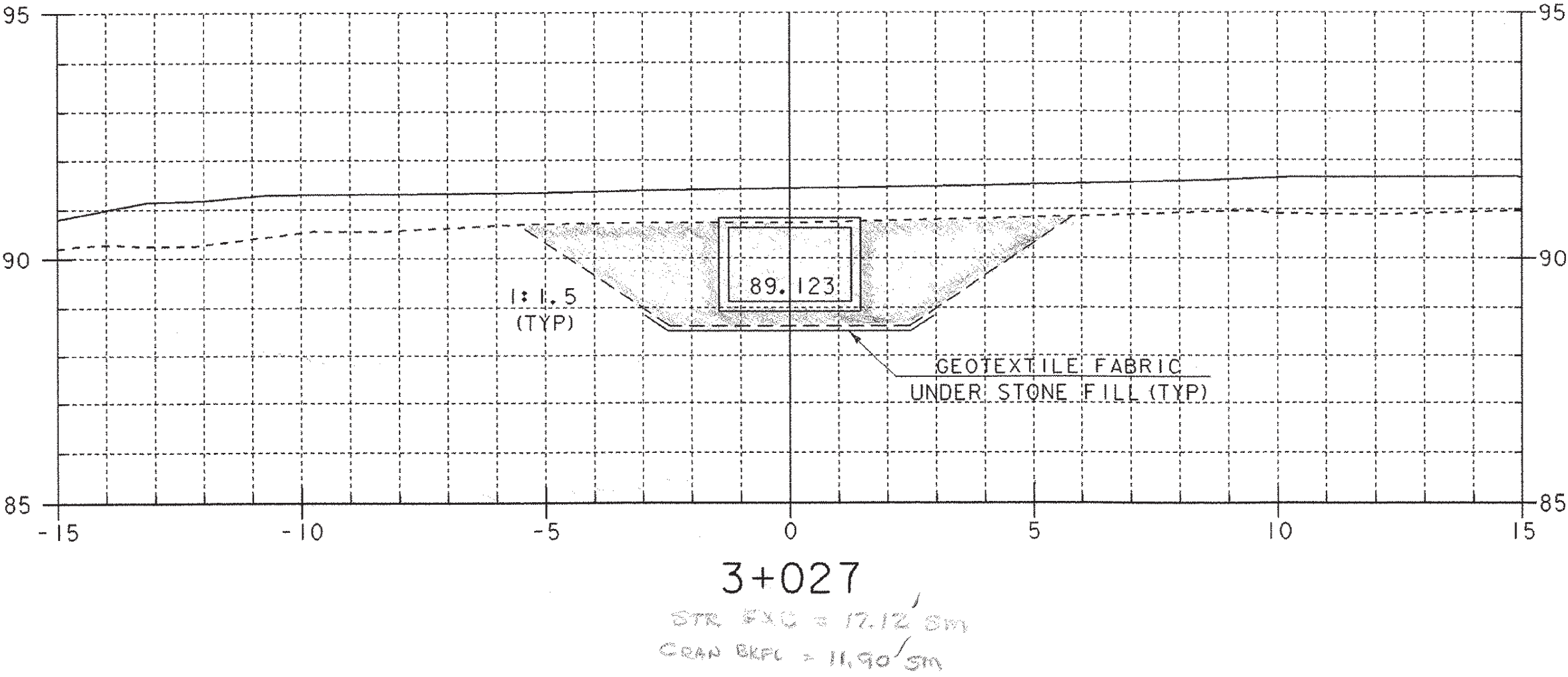
1/2 10-05-04
DATE 10/25/04

SHEET NAME: BOX CULVERT CROSS SECTIONS	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /str1/93j021/sj021xs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021bx1.i
BRIDGE SHEET NUMBER:	SHEET 49 OF 53



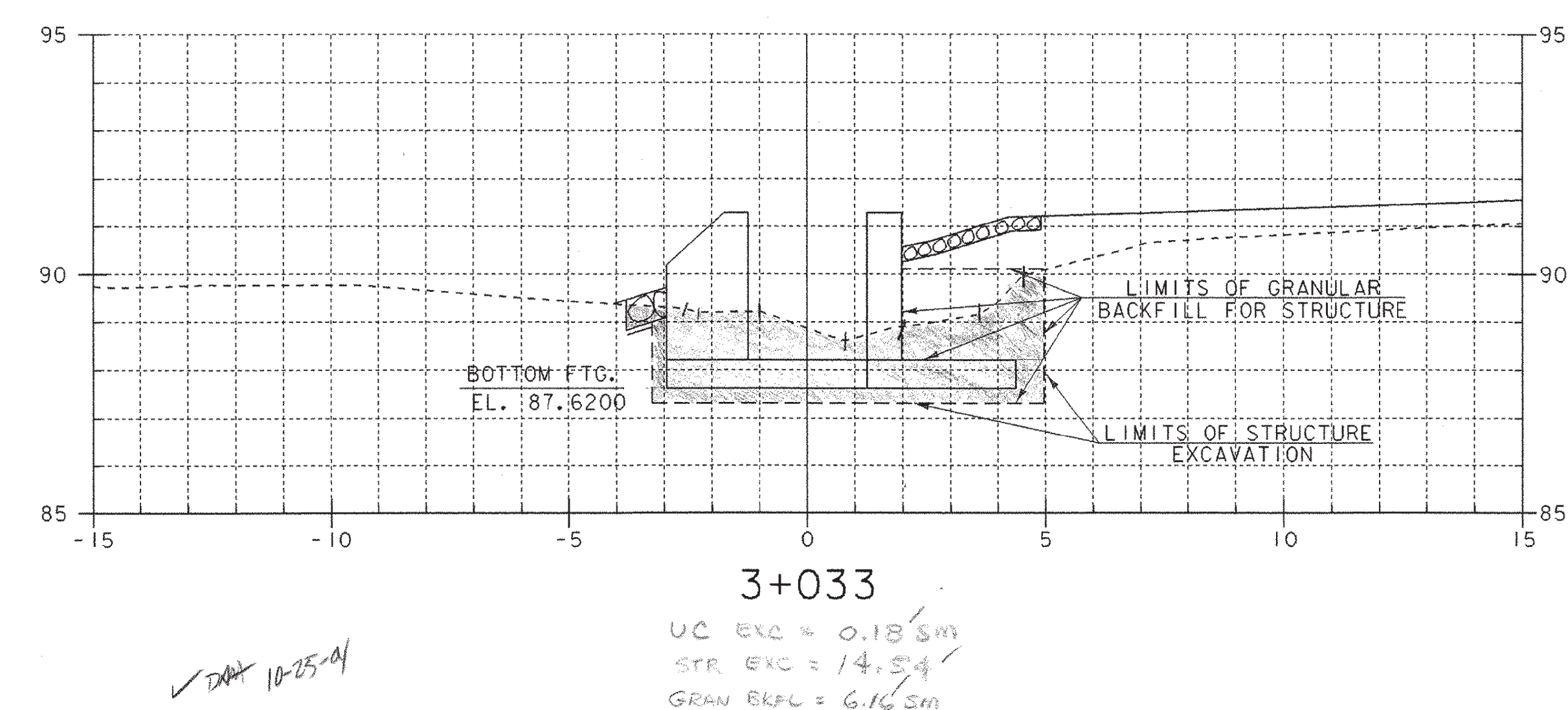
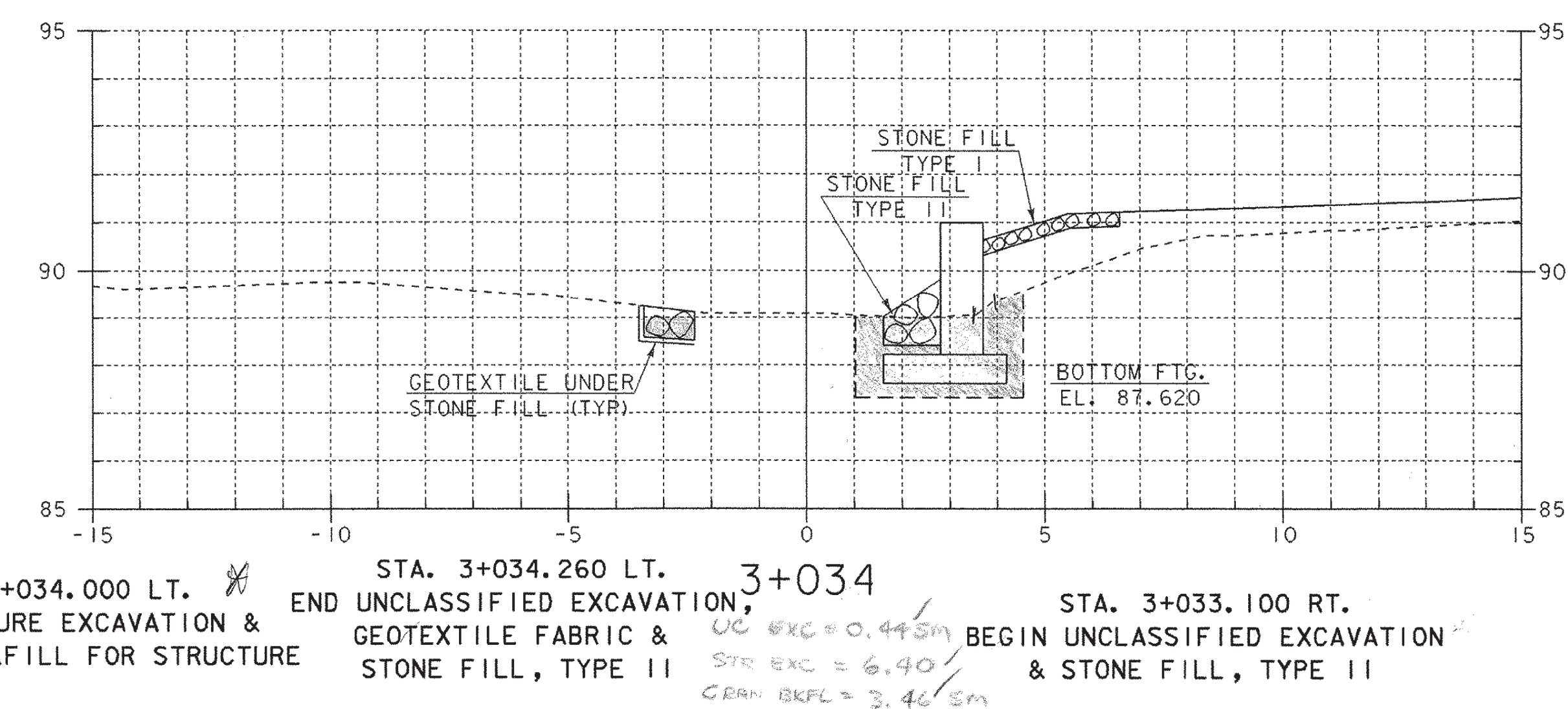
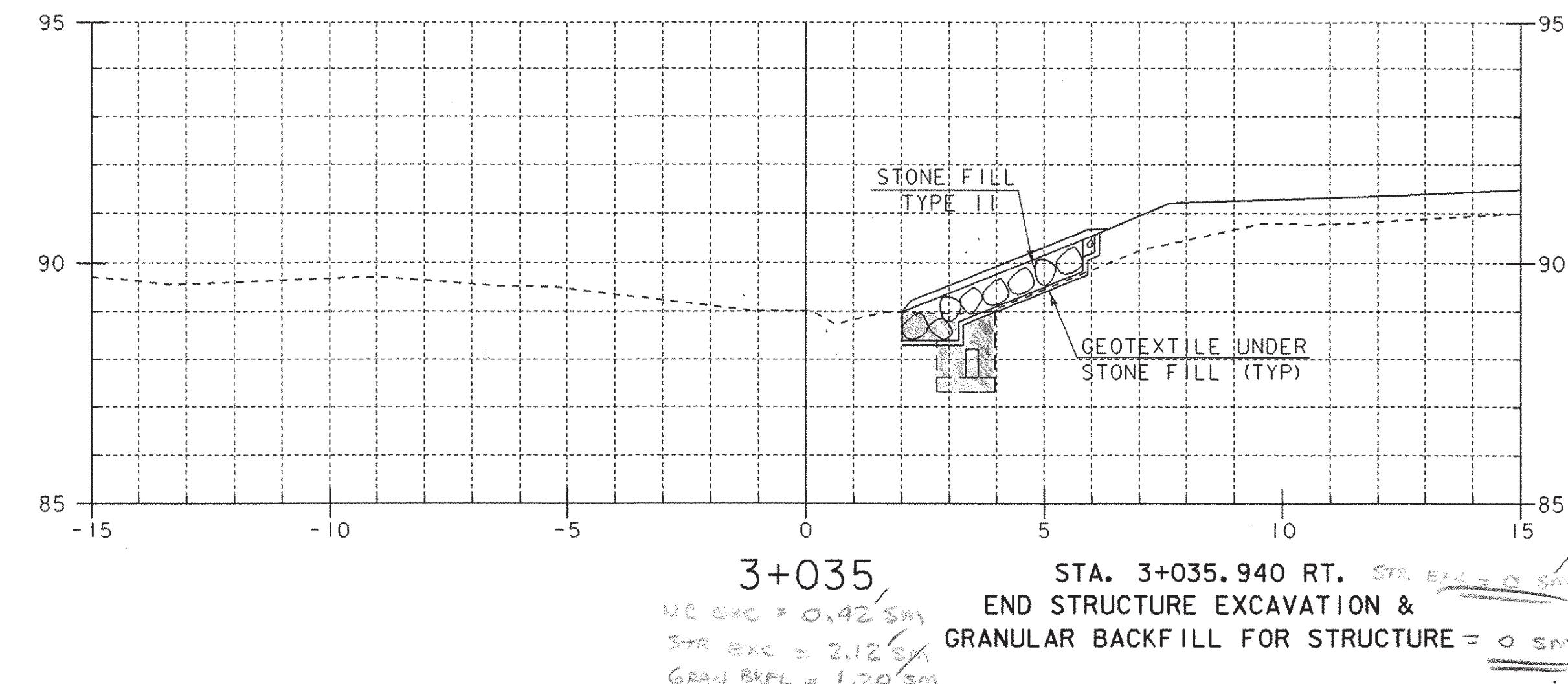
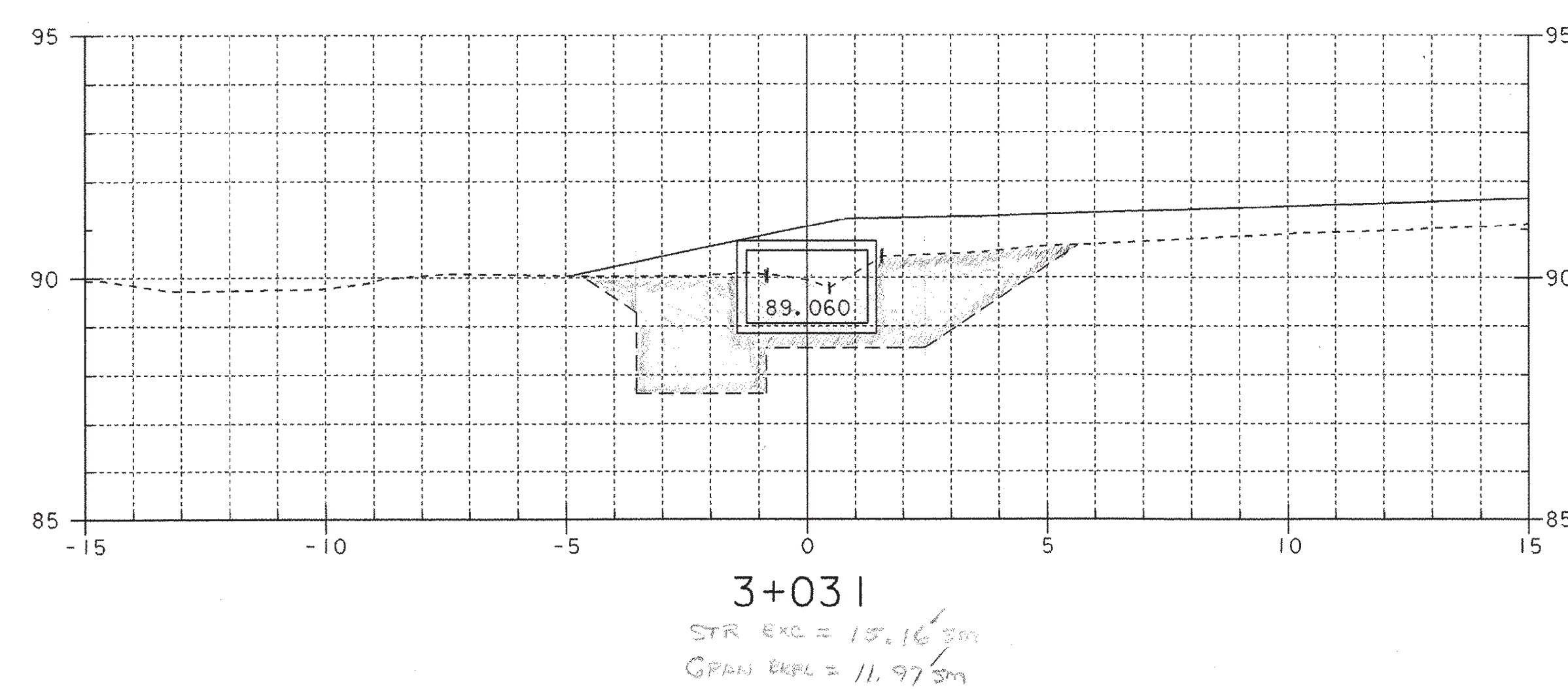
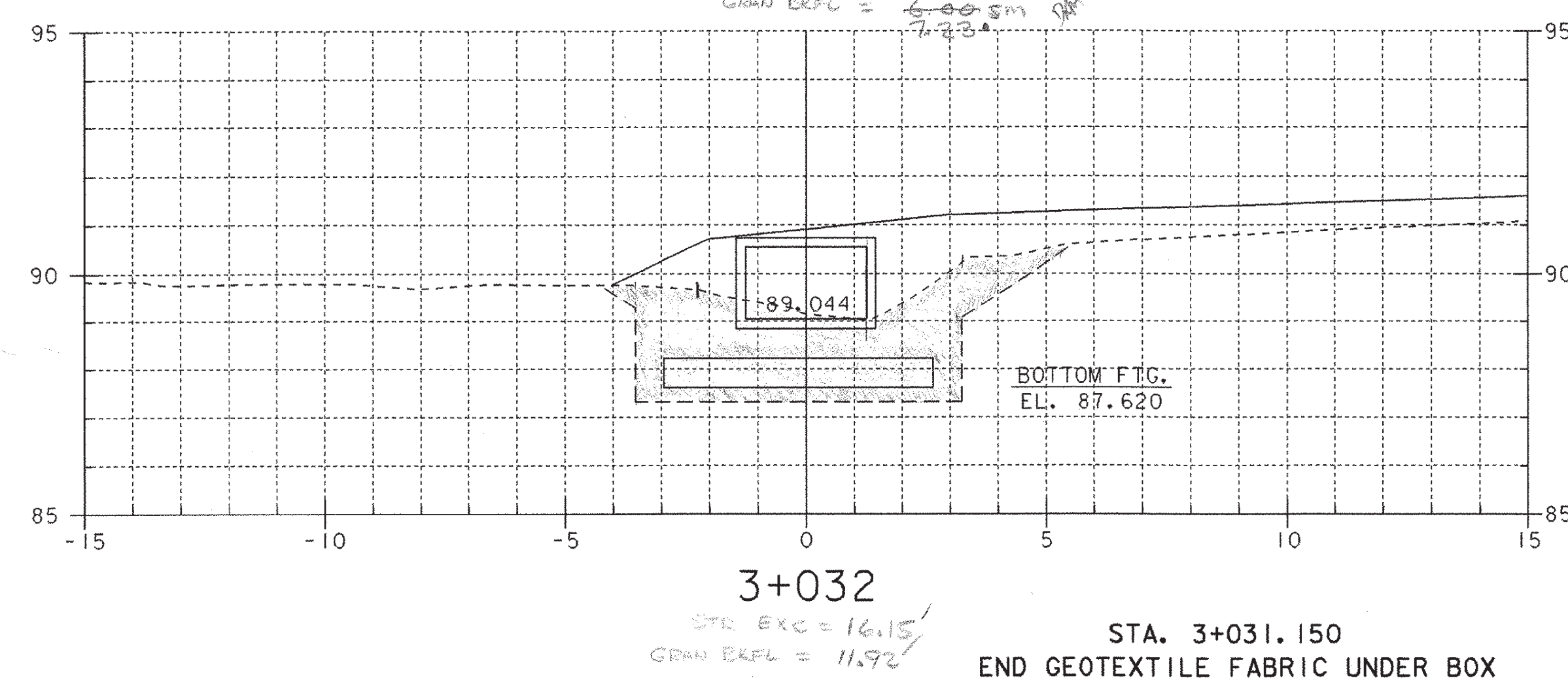
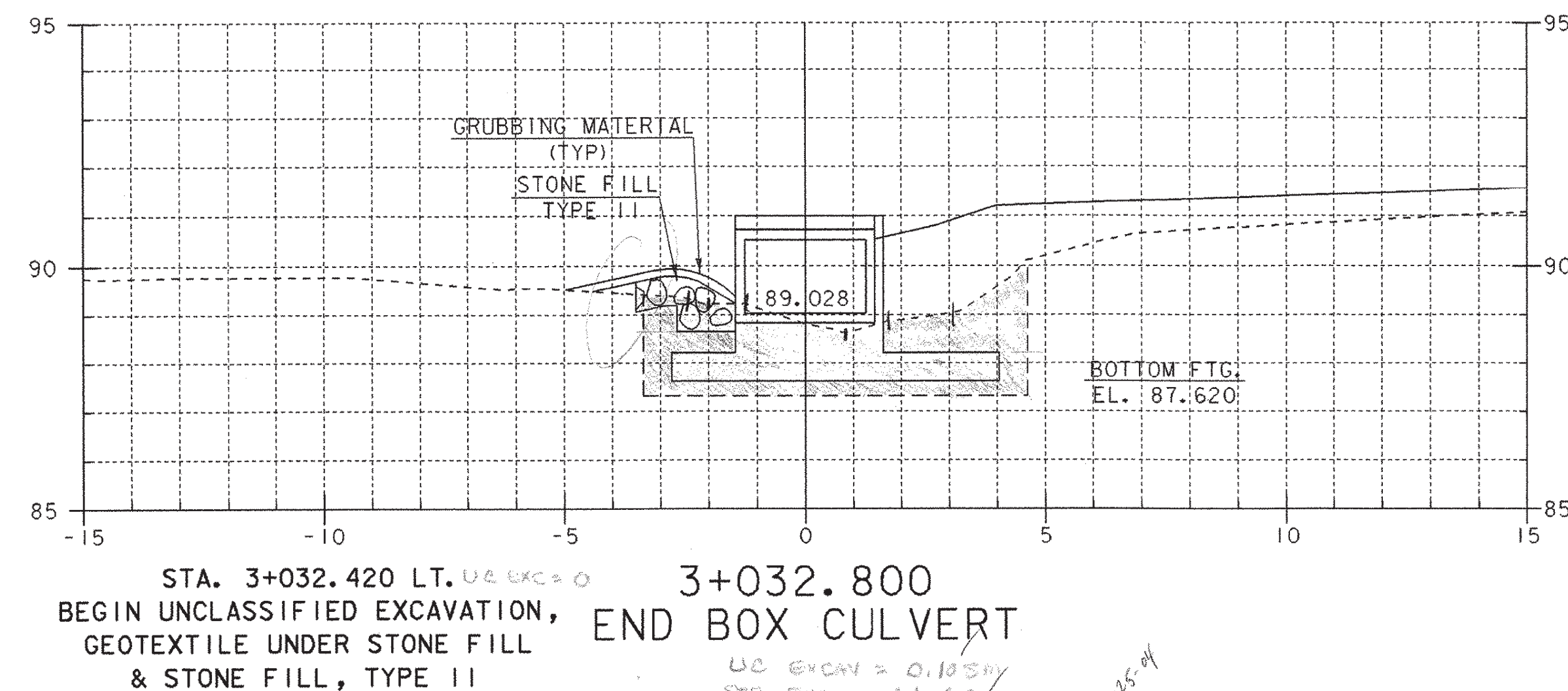
✓ by DAA 10-06-04 &
10-07-04

SHEET NAME: BOX CULVERT CROSS SECTIONS	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /str/93j021/sj021xs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021b2.1
BRIDGE SHEET NUMBER:	SHEET 50 OF 53



✓ 10-06-04
10-07-04
10-25-04

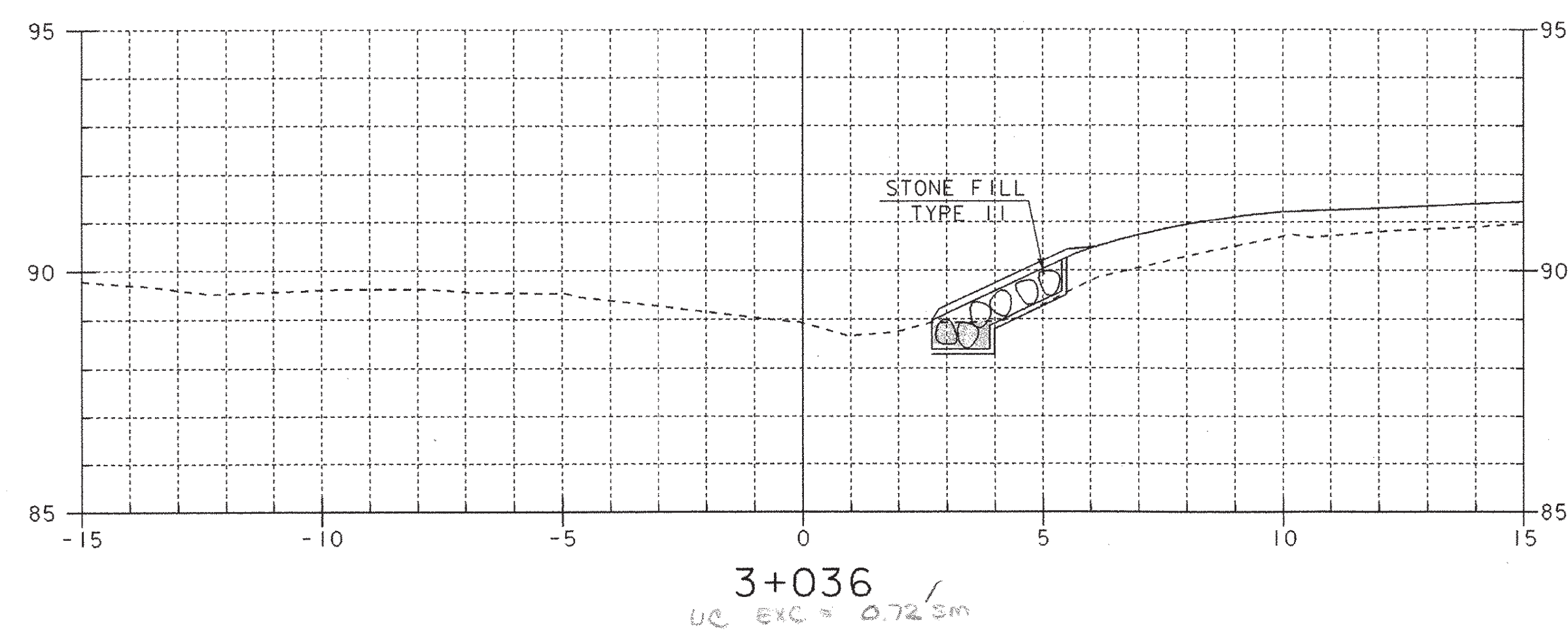
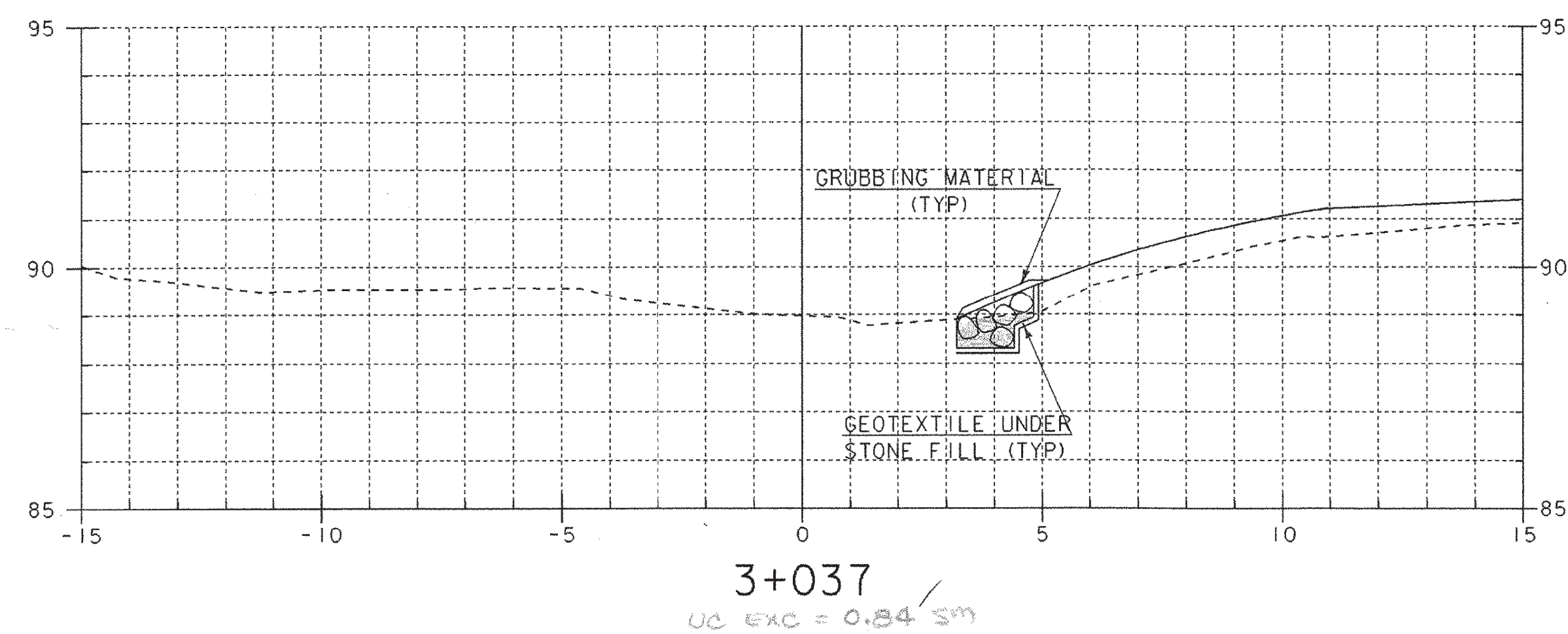
SHEET NAME: BOX CULVERT CROSS SECTIONS	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /str/93j02l/sj02lxs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj02lbx3.1
BRIDGE SHEET NUMBER:	SHEET 51 OF 53



✓ DAT 10-25-04
 ✓ b/c 10-25-04 &
 10-07-04

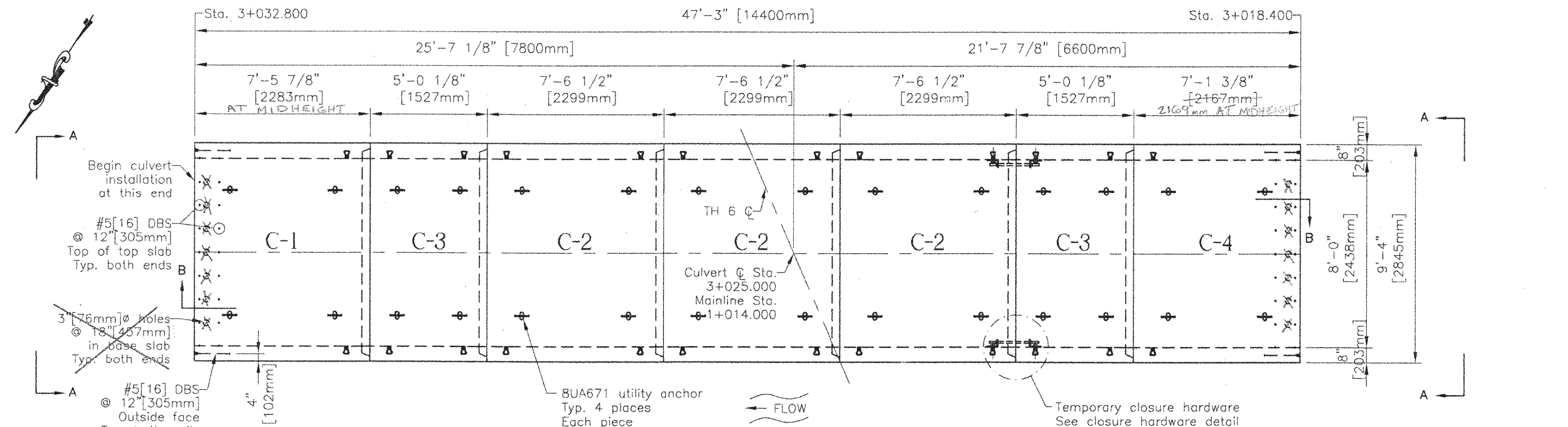
SHEET NAME: BOX CULVERT CROSS SECTIONS	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /srt/93j021/sj021xs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021bx4.1
BRIDGE SHEET NUMBER:	SHEET 52 OF 53

STA. 3+037.900 RT.
END UNCLASSIFIED EXCAVATION, = 0.5m.
GEOTEXTILE UNDER STONE FILL
& STONE FILL, TYPE II

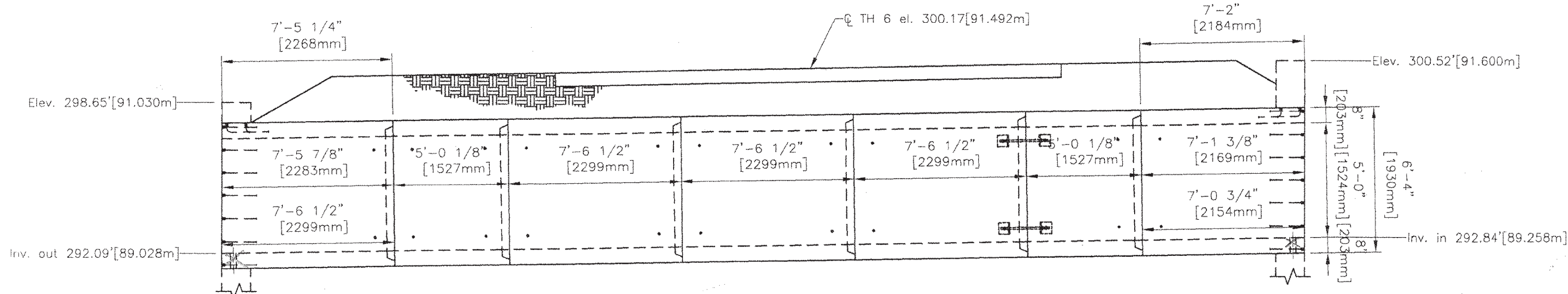


10-05-04

SHEET NAME: BOX CULVERT CROSS SECTIONS	
PROJECT NAME: FAIR HAVEN-HAMPTON	HIGHWAY NO.: TH 6
PROJECT NUMBER: BRO 1443(32)	BRIDGE NO.: 6
	OVER: POULTNEY RIVER
FILE NAME: /str1/93j021/sj021xs.dgn	PLOT DATE: 28-JAN-2003
PROJECT MANAGER: G.S. ROGERS	DRAWN BY: STRI
DESIGNED BY: C. MEUNIER	IPARM NAME: sj021bxs.1
BRIDGE SHEET NUMBER:	SHEET 53 OF 53



DEVELOPED PLAN

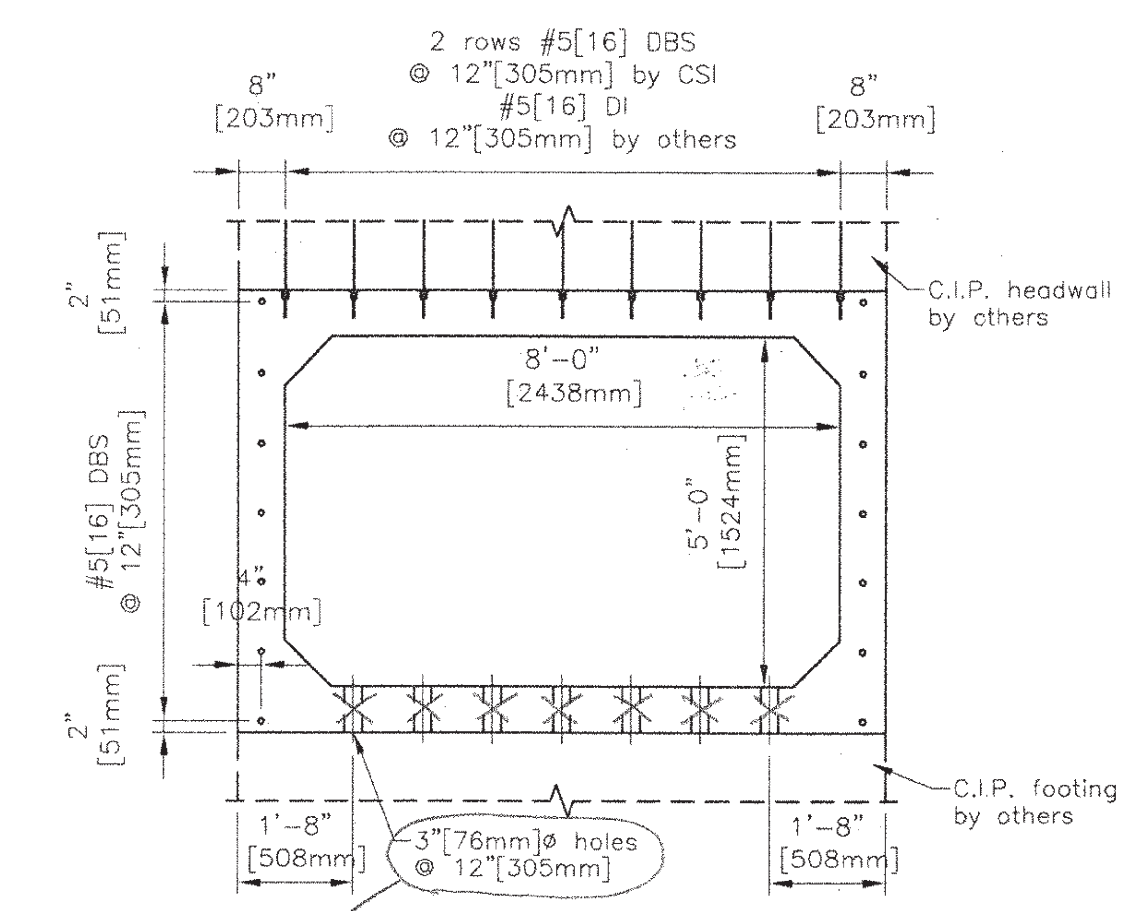


ELEVATION

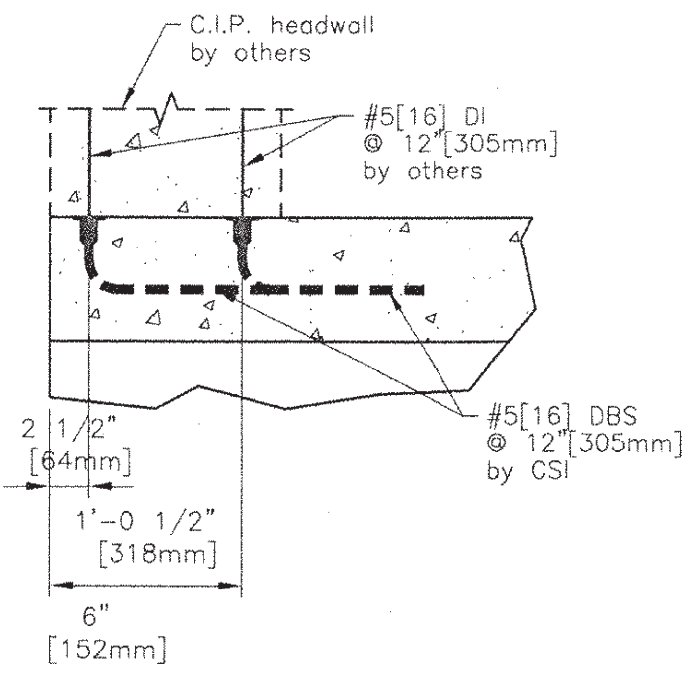
- GENERAL NOTES:**
- Structure designed and built in accordance with AASHTO "Standard Specifications for Highway Bridges" and ASTM C1433
 - Design Parameters
 - Live load: AASHTO HS25[MS 22.5]
 - Earth Cover: 1' to 2'[0.305 to 0.610m]
 - Concrete: Design strength $f_c = 5000$ psi [34.47MPa]
 - Unit weight = 150 pcf [2403kg/m³]
 - Reinforcing: ASTM A615M (rebar), grade 420
 - ASTM A185 (WWF) $f_y = 60$ ksi [414MPa]
 - Soil: Unit weight = 140 pcf [22kN/m³]
 - Minimum lateral pressure coefficient .25
 - Maximum lateral pressure coefficient .50
 - Cover to reinforcing: 2" [51mm] top of top slab
 - 1 1/2" [38mm] elsewhere
 - Dimensions include a joint gap. Actual culvert piece length is 1/2" [12.5mm] shorter. (i.e. C-2 = 7'-6" [2286mm])
 - No dampproofing supplied by CSI
 - Membrane waterproofing to be supplied and installed by others.
 - Headwalls, wingwalls, and toewalls by contractor.
 - DBS are Dowel Bar Splacers and are supplied by CSI. DI are Dowel Ins and are supplied by others. Dowel Ins are manufactured by Dayton Richmond Concrete Accessories.

PIECE SCHEDULE (MX.CES000SM)				
MARK	QTY	LENGTH	YDS	WEIGHT
C-1	1	7.46	5.93	11.20 TONS
C-2	3	7.5	5.96	11.26 TONS
C-3	2	4.96	3.68	7.44 TONS
C-4	1	7.13	5.28	10.70 TONS

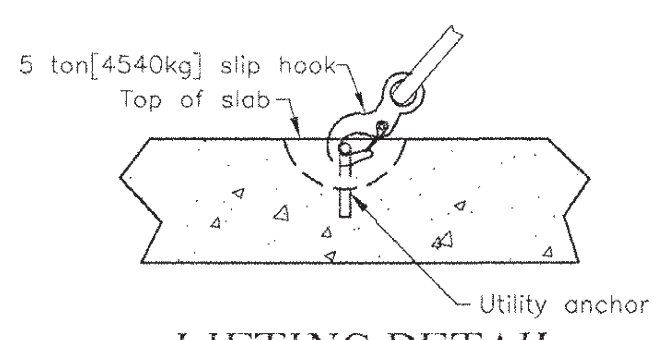
SHOW METRIC QUANTITIES.



ELEVATION A-A

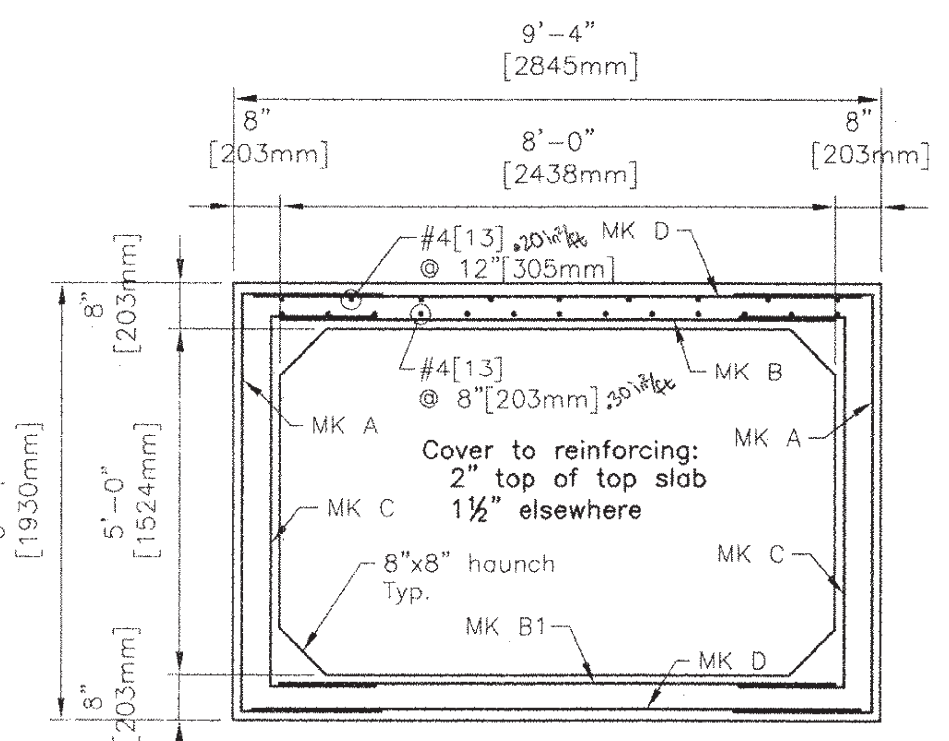


SECTION B

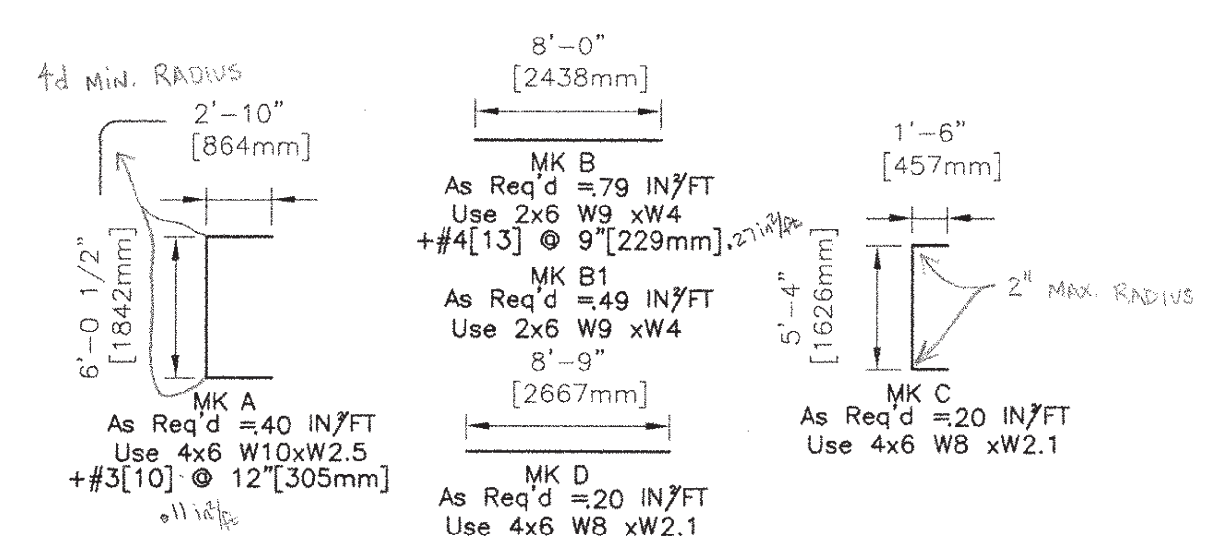


LIFTING DETAIL

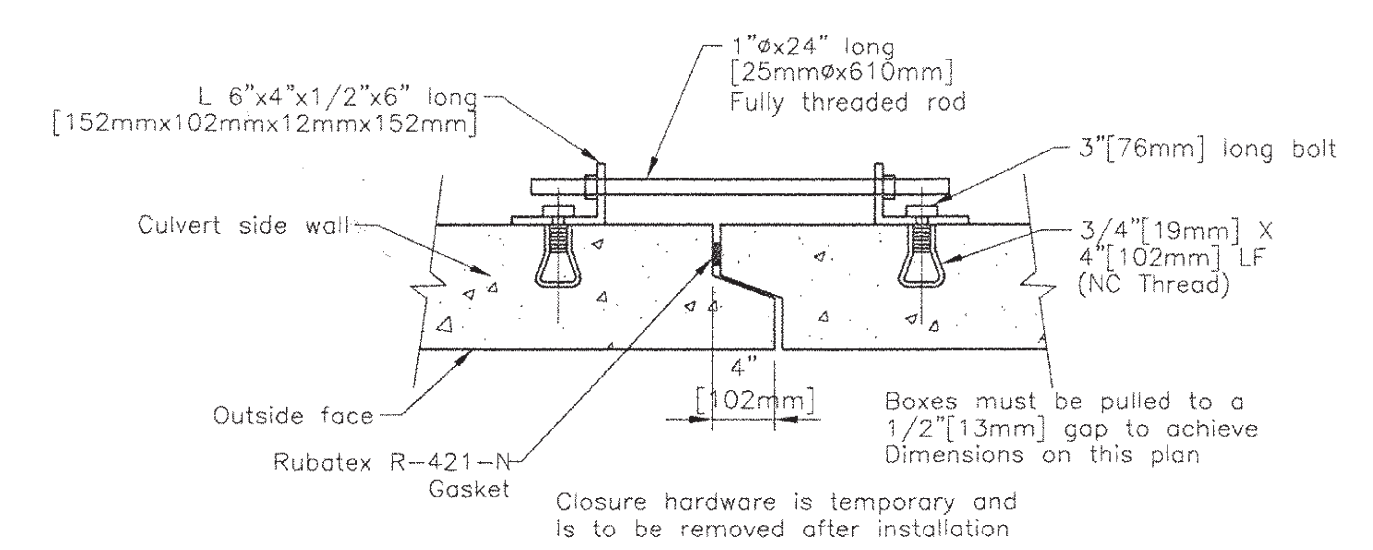
delete this detail



REINFORCING DETAIL



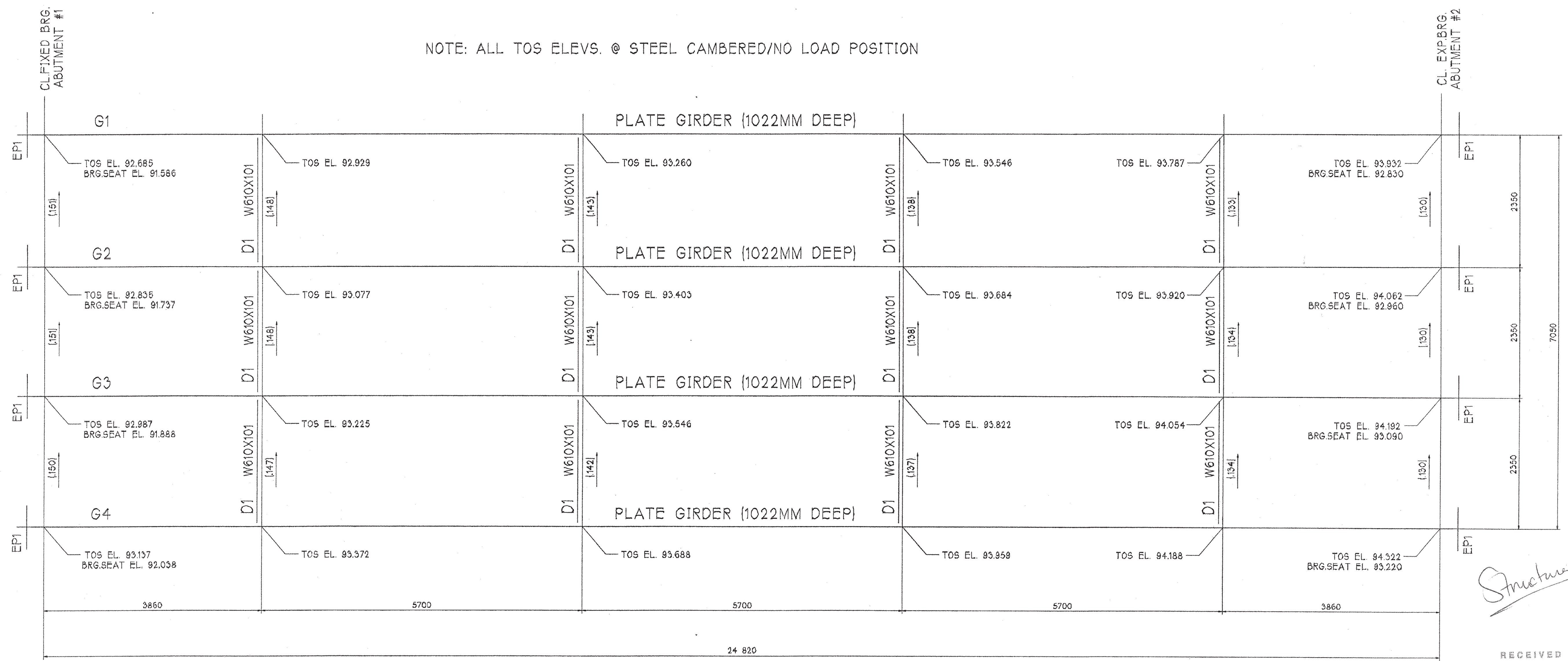
BENDING SCHEDULE



CLOSURE HARDWARE DETAIL

5			
4			
3			
2			
1			
Rev.	Date	Description	By
REVISIONS			
This drawing is based upon information provided from the following documents and/or sources: Engineer: VT Agency of Transportation Project #: BRO 1443(32) Drawings: Fair Haven - Hampton Proj. No. BRO 1443(32) (Bottom cut off of drawings) Sheet 19 of 53, Box Plan and Elevation Sheet, and Precast Box Details Sheet Specifications: N/A			
Other:			
RECEIVED GK'D BY <u>PSB</u> OK'D BY <u>AS</u> MAR 31 2003 RESUBMIT <u>AS</u> APPROVED <u>AS</u> BY <u>CSR</u> DATE <u>5/23/03</u>		Contractor is to verify that all information shown on drawings has been thoroughly checked, complies with the contract documents and is adequate to meet the field conditions. Some dimensions and details may differ slightly from contract drawings to accommodate the manufacturing or design process. Approval of this drawing indicates that any deviation from the contract documents has been reviewed and found to be acceptable. Production will not commence until receipt of signed, approved shop drawings.	
This drawing contains information proprietary to CONCRETE SYSTEMS, INC. This drawing is disclosed with the understanding that it will be retained in confidence and its use limited solely to the purpose for which it is disclosed. It is understood that no reproduction of this drawing is authorized without permission from CONCRETE SYSTEMS, INC. and that it will be returned to CONCRETE SYSTEMS, INC. upon demand.			
STATE AGENCY VERMONT AGENCY OF TRANSPORTATION			
CSI Concrete Systems Inc. 14 Park Avenue, Hudson, NH 03051 Phone 1-603-889-4153 Fax 1-603-889-2417		AUSTIN CONSTRUCTION FAIR HAVEN - HAMPTON BRIDGE REPLACEMENT FAIR NEW HAVEN, VT	
PRECAST CULVERT LAYOUT			
Drawn By M. SCOTT Checked By C. VICK	Date 03/07/2003 03/25/2003	Project No. BRO 1443(32)	Drawing No. C16174-L01 REV 0
Bridge No. 6		SHEET 1 OF 1	

NOTE: ALL TOS ELEV. @ STEEL CAMBERED/NO LOAD POSITION

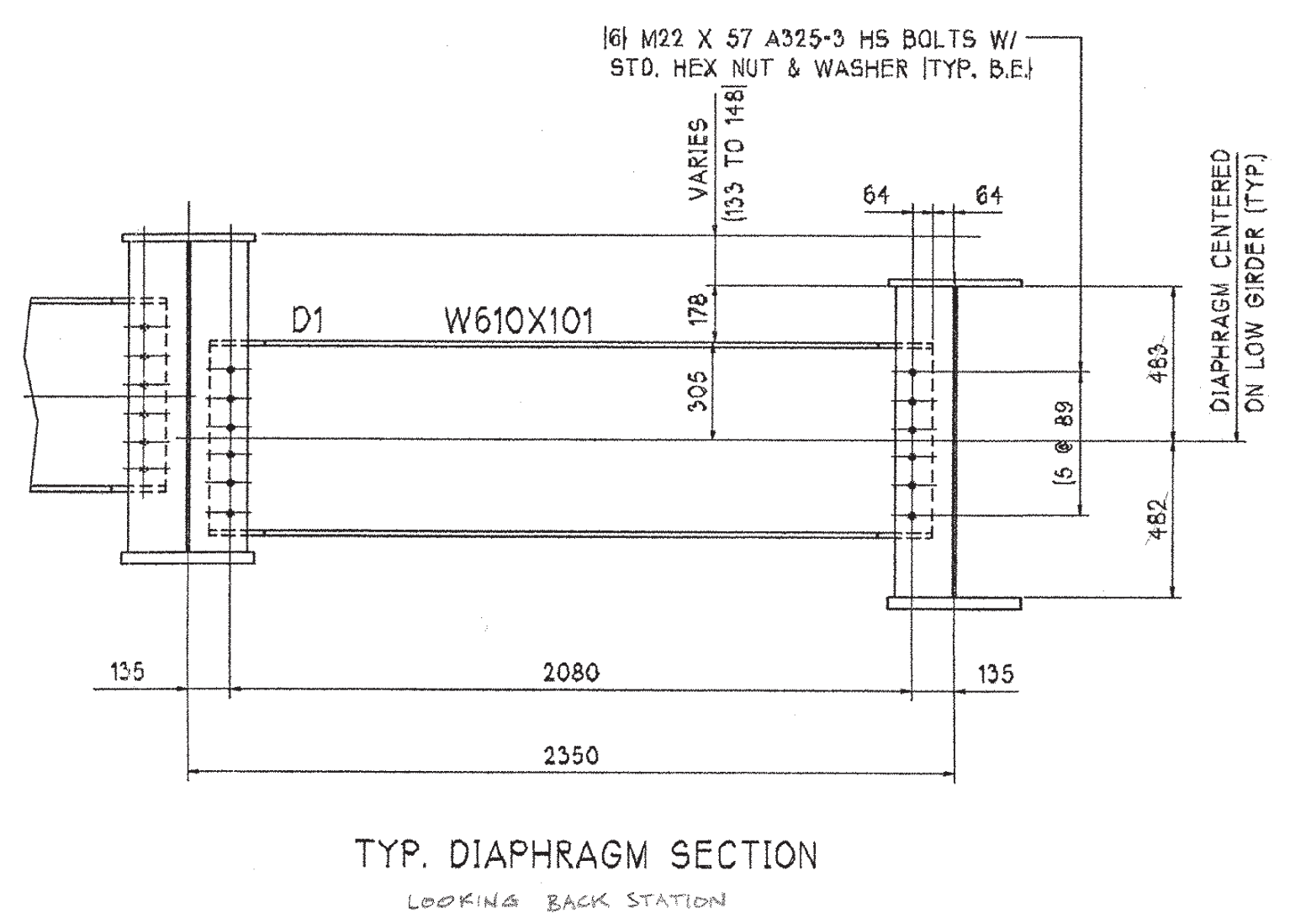
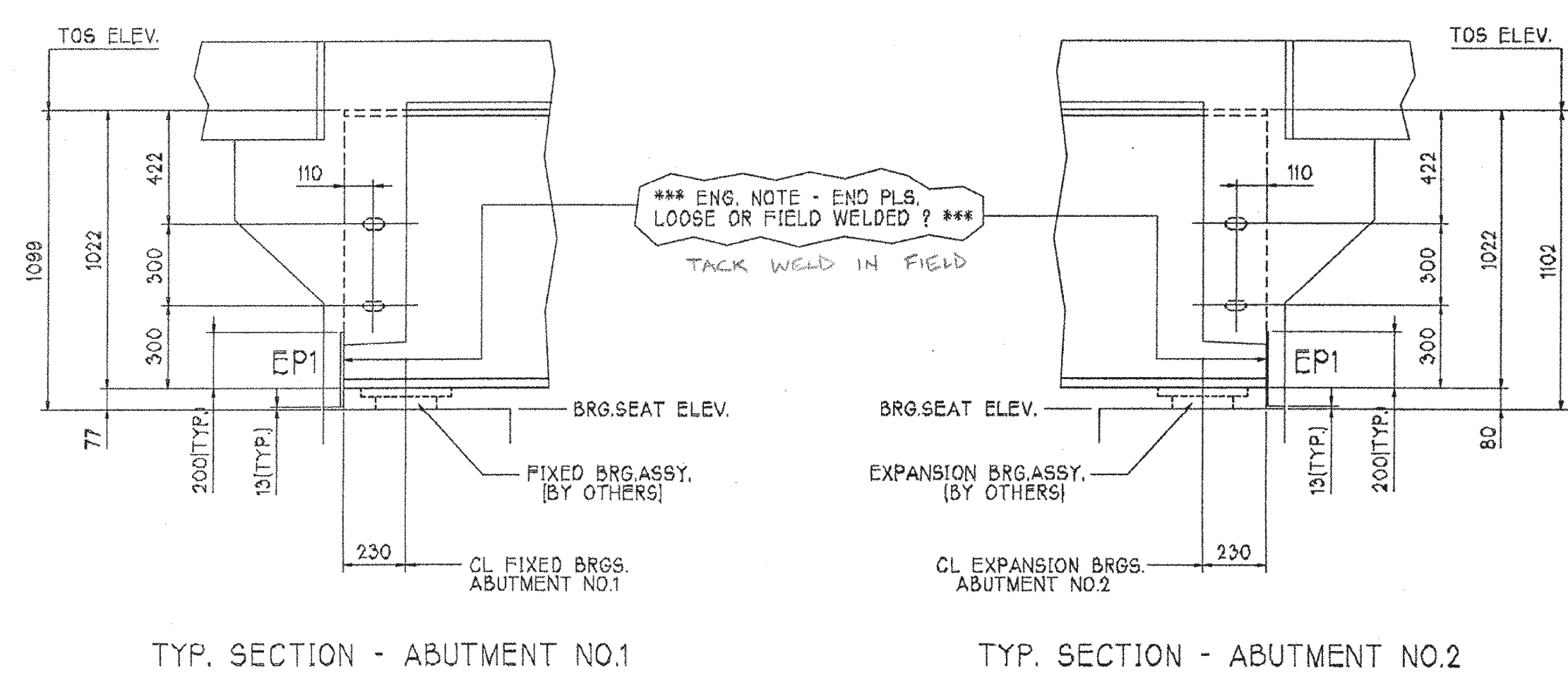


Structure

RECEIVED
 CK'D BY *ML* OK'D BY *Cun*
 APR 14 2003
 RESUBMIT. *AS NOTED*
 BY *GSR* DATE *4/15/03*

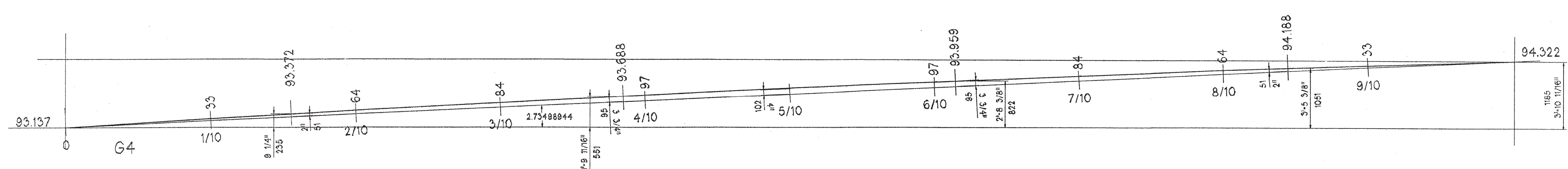
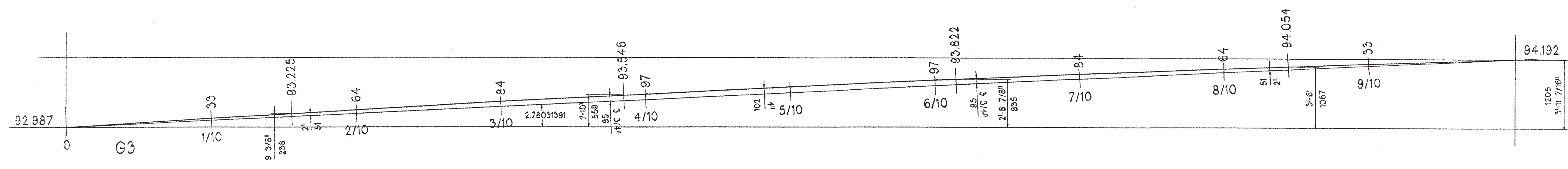
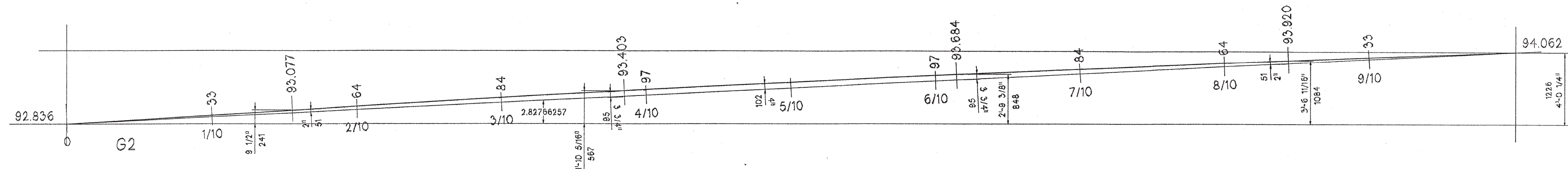
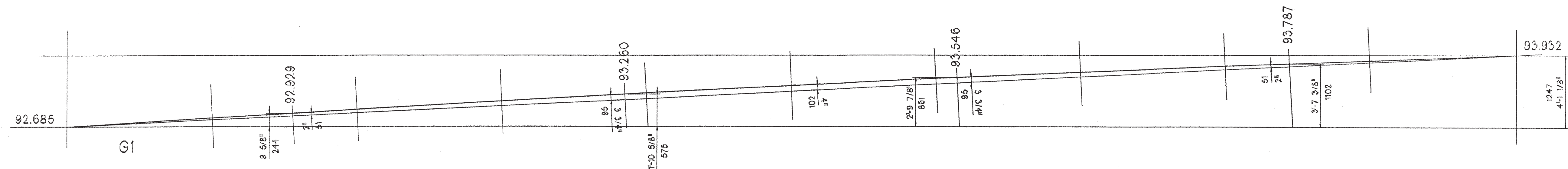
ERECTION FRAMING PLAN
 NOT TO SCALE
 (BEARINGS/ANCHORS BY OTHERS)

FOR APPROVAL



(XXX) : DESIGNATES TOS ELEV. DIFFERENTIAL & DIRECTION OF DOWNWARD SLOPE

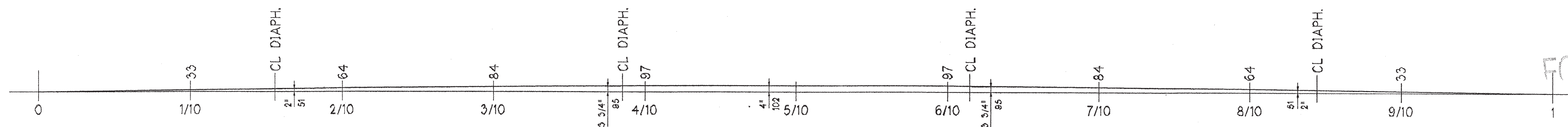
ITEM NO.	506.55	BR. NO.	6	PROJ. NO.	BRO 1443(32)
TITLE: STRUCTURAL STEEL ERECTION PLAN					
APPROVED:					
PRINT DIST.					
6	3/25/03	APPR.			
ORIG.		FAB.			
PLAINVILLE, CT					
JOB: CL 2 LOCAL BRIDGE NO. 6					
RTE. TH 6 OVER THE POULTNEY RIVER					
RUTLAND COUNTY					
FAIRHAVEN, VERMONT - HAMPTON, NEW YORK					
CUSTOMER: AUSTIN CONSTRUCTION, INC.					
DESIGNER: VERMONT AGENCY OF TRANSPORTATION					
WORK ORDER NO.					
DRAWING NO.					
REV.					
CHECKED	DS/NEC	3/24/03			
DRAWN	RAB/NEC	3/12/03			
			15948	E1	



GIRDER TOS ELEV. (NO LOAD POSTION)

RECEIVED
OK'D BY: *CH* OK'D BY: *CH*
APR 14 2003
RESUBMIT: ☒ APPROVED: ☒
BY: *GSR* DATE: *4/15/03*

FOR APPROVAL



NOTE: ALL TOS ELEV. @ STEEL NO LOAD POSITION

ITEM NO.	506.55	BR. NO.	6	PROJ. NO.	BRO 1443(32)
TITLE: STRUCTURAL STEEL - TOS ELEV. WORK SHEET					
APPROVED:			 STRUCTURAL STEEL FABRICATORS MAJOR STEEL BRIDGES		
PRINT DIST.					
6	3/25/03	APPR.	PLAINVILLE, CT 860-747-3700		
ORIG.		FAB.			
			JOB: CL 2 LOCAL BRIDGE NO. 6 RTE. TH 6 OVER THE POULTNEY RIVER RUTLAND COUNTY FAIRHAVEN, VERMONT - HAMPTON, NEW YORK		
			CUSTOMER: AUSTIN CONSTRUCTION, INC.		
			DESIGNER: VERMONT AGENCY OF TRANSPORTATION		
			WORK ORDER NO. DRAWING NO. REV.		
CHECKED	DS/NEC	3/24/03	15948 W1		
DRAWN	RAB/NEC	3/13/03			

GENERAL SHOP NOTES

SPECIFICATIONS:

1. ALL MATERIALS & WORKMANSHIP TO BE IN ACCORDANCE WITH THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2001, AND ITS LATEST REVISIONS, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGH-WAY BRIDGES, SIXTEENTH EDITION, AND ITS LATEST REVISIONS.

MATERIALS:

1. UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL TO BE AASHTO M270, GR. 345W. STEEL NOTED T2 SHALL MEET CVN TESTING REQUIREMENTS PER VERMONT AOT SPECIFICATIONS.
2. HIGH STRENGTH BOLTS TO BE ASTM A325,TYPE 3 (WEATHERING), WITH STD. HEAVY HEX NUTS & HARDENED FLAT WASHERS. ALL H.S. BOLTS TO BE ROTATIONAL CAPACITY TESTED.

SHOP PROCEDURES:

1. ALL RE-ENTRANT CUTS TO HAVE A 50 mm MIN. RADIUS.
2. CAMBER TOLERANCE: -0 TO +20 mm.

WELDING:

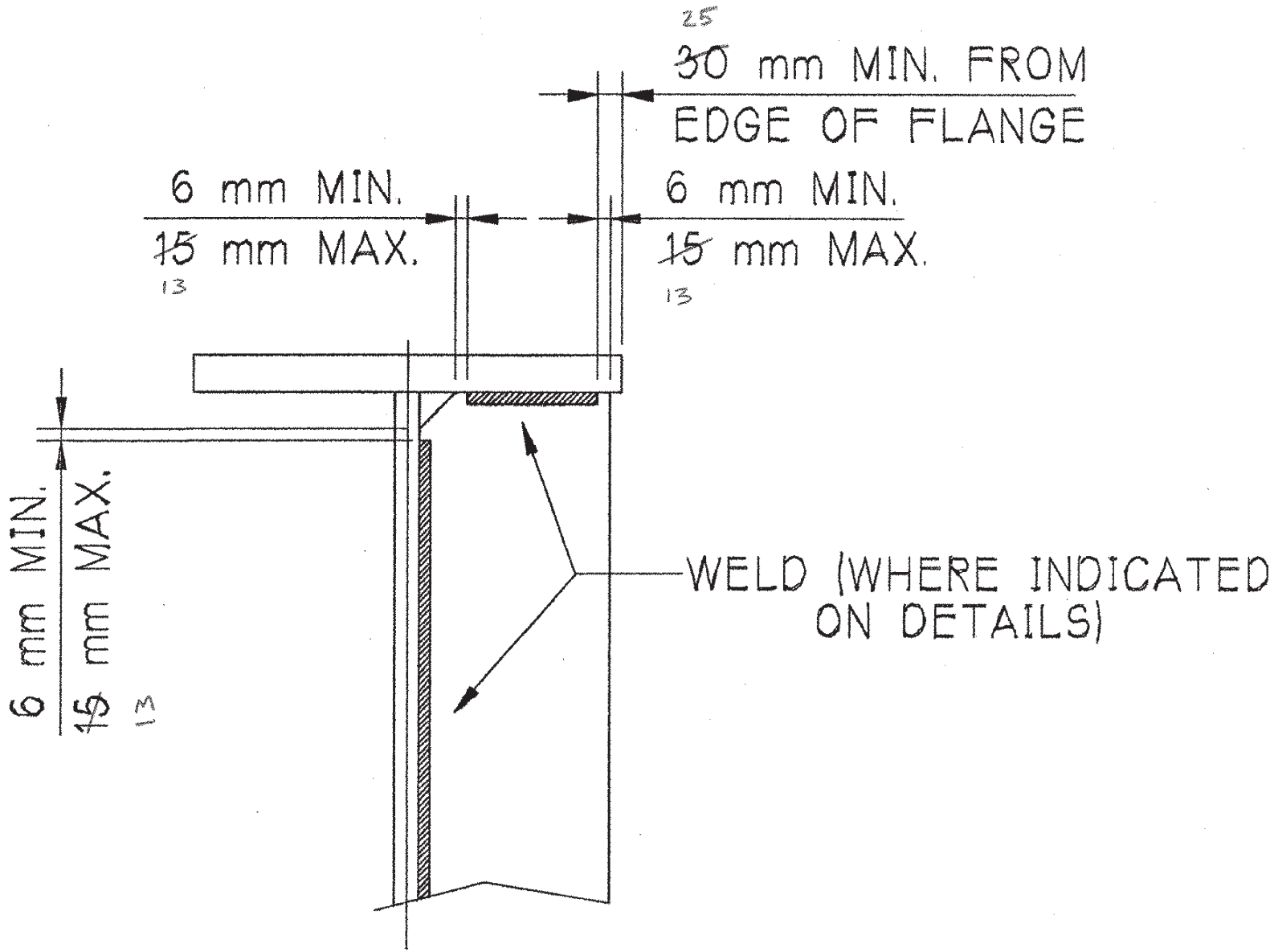
1. ALL WELDING TO BE IN ACCORDANCE WITH AASHTO/AWS D1.5-95 BRIDGE WELDING CODE, AS AMENDED BY VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS, DATED 2001, SECTION 506.10.
2. STIFFENER AND/OR CONNECTION PLATE WELDS SHALL BE TERMINATED AS INDICATED IN "TYPICAL FILLET WELD TERMINATION DETAIL".

NON-DESTRUCTIVE TESTING:

1. ALL GIRDER WEB TO FLANGE FILLET WELDS TO BE INSPECTED BY THE MAGNETIC PARTICLE METHOD. TEST 300 mm OF EACH 3000 mm OF ALL WEB TO FLANGE WELDS AS NOTED ON DETAILS.
2. ALL GIRDER CONNECTION STIFFENER FILLET WELDS TO BE INSPECTED BY THE MAGNETIC PARTICLE METHOD. TEST 300 mm OF EACH 3000 mm OF ALL STIFFENER WELDS AS NOTED ON DETAILS.
3. MULTIPLE PASS FILLET WELDS, INSPECTED BY THE MAGNETIC PARTICLE METHOD, SHALL HAVE EACH PASS OR LAYER INSPECTED AND ACCEPTED BEFORE PROCEEDING TO THE NEXT PASS OR LAYER.

CLEANING:

1. ALL STRUCTURAL STEEL TO BE UNPAINTED & CLEANED FOR WEATHERING, PER VERMONT AOT STANDARD SPECIFICATIONS.
2. ALL STRUCTURAL STEEL TO BE BLAST-CLEANED FOR WEATHERING TO SPPC-SPI0. BLAST CLEANING MAY BE PERFORMED EITHER BEFORE OR AFTER FABRICATION.

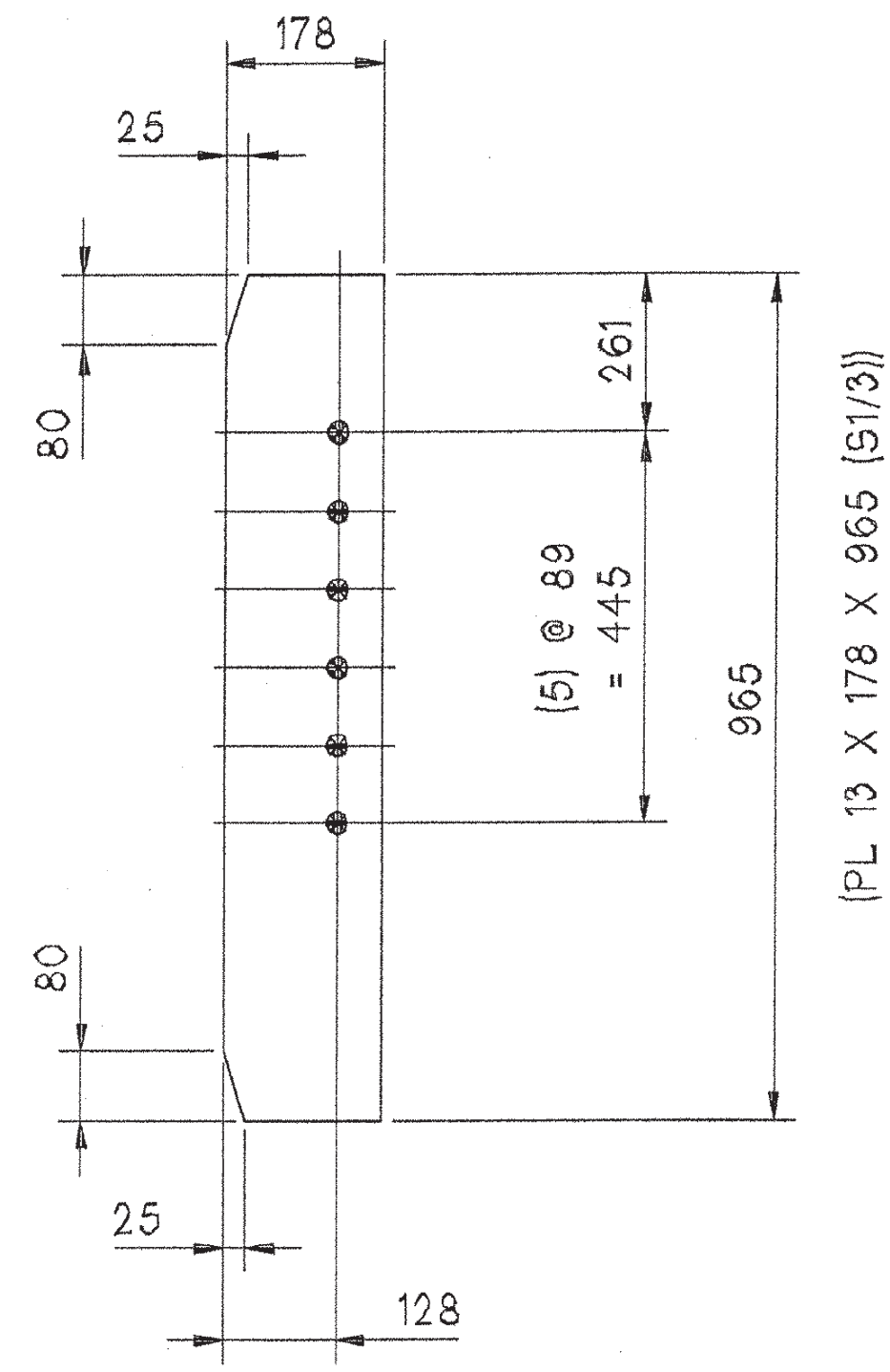


TYP. FILLET WELD TERMINATION DETAIL

RECEIVED
OK'D BY *ML* OK'D BY *Ca*
MAR 25 2003
RESUBMIT _____ APPROVED *As noted*
BY *GBR* DATE *4/15/03*

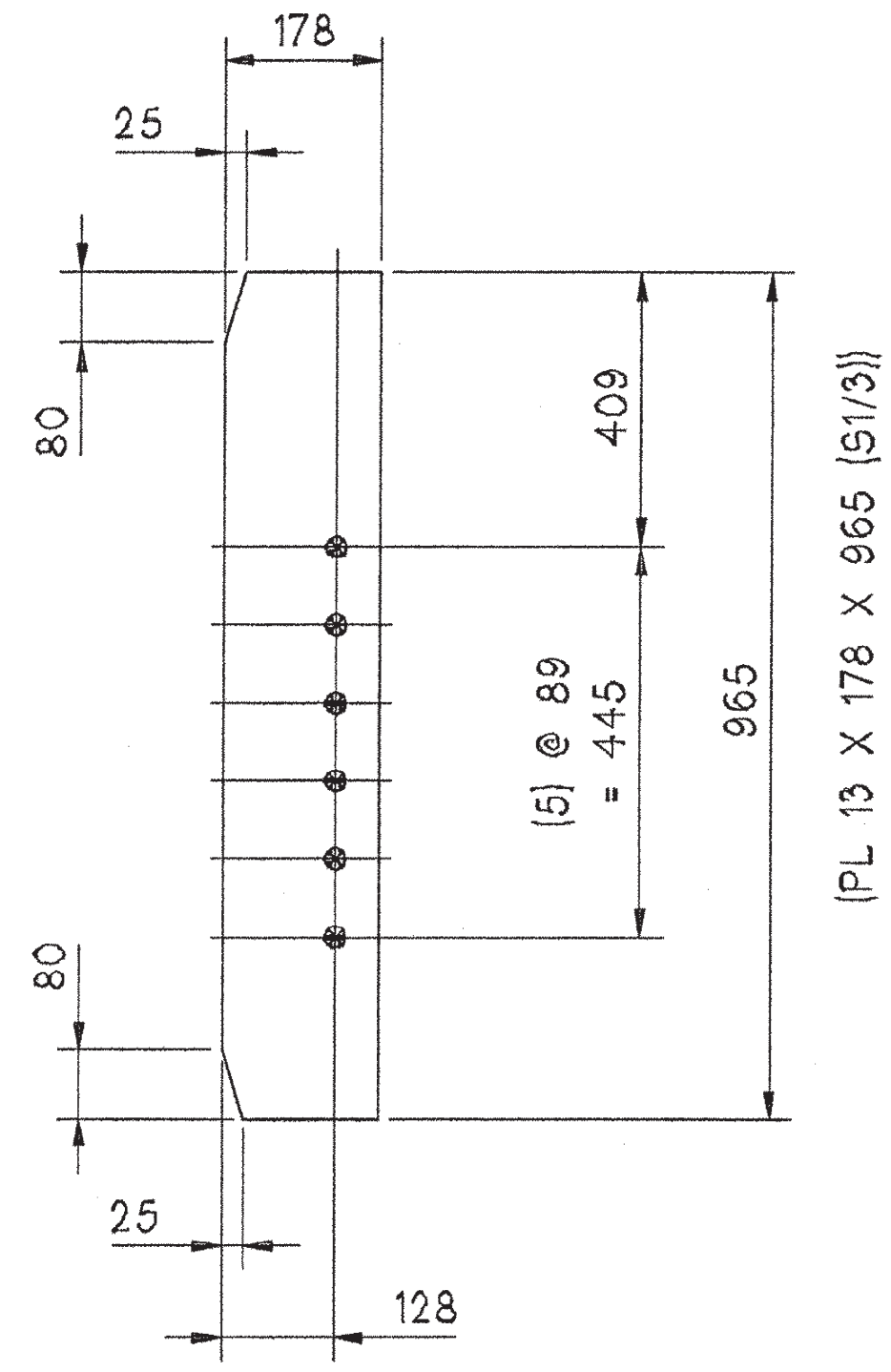
FOR APPROVAL

ITEM NO. 50655			BR. NO. 6			PROJ. NO. BRO 1443(32)		
TITLE: GENERAL NOTES								
APPROVED:			national eastern STRUCTURAL STEEL FABRICATORS MAJOR STEEL BRIDGES PLAINVILLE, CT 860-747-3700					
PRINT DIST.								
6 3/25/03 APPR.								
ORIG. FAB.								
JOB:			CL 2 LOCAL BRIDGE NO. 6 RTE. TH 6 OVER THE POULNEY RIVER RUTLAND COUNTY FAIRHAVEN, VERMONT - HAMPTON, NEW YORK					
CUSTOMER:			AUSTIN CONSTRUCTION, INC.					
DESIGNER:			VERMONT AGENCY OF TRANSPORTATION					
WORK ORDER NO.			DRAWING NO.			REV.		
15948			GN1					
CHECKED	DS/NEC	3/24/03						
DRAWN	RAB/NEC	3/18/03						



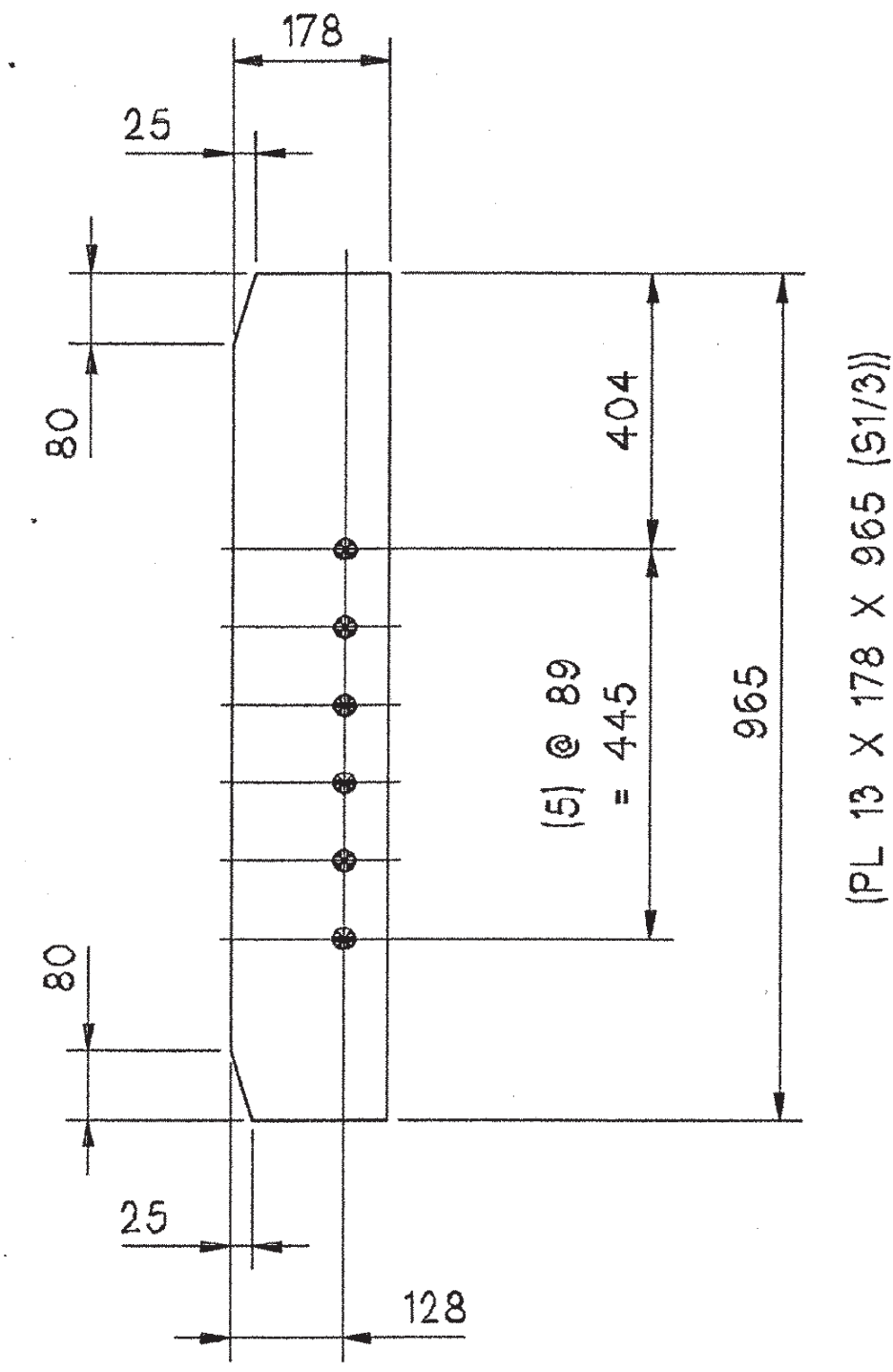
cs1 - (12) REQ'D.

CSPREP



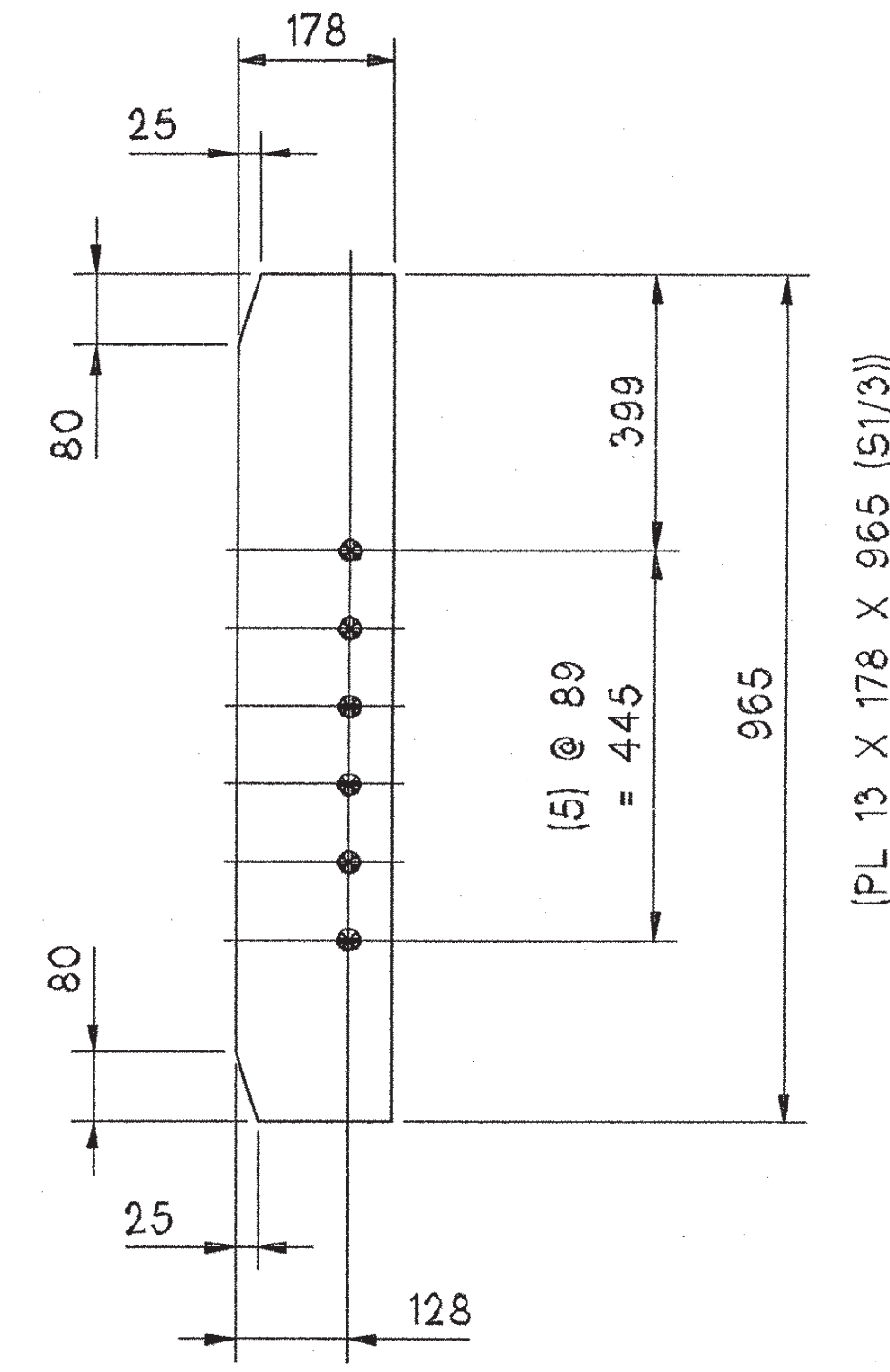
cs2 - (3) REQ'D.

CSPREP



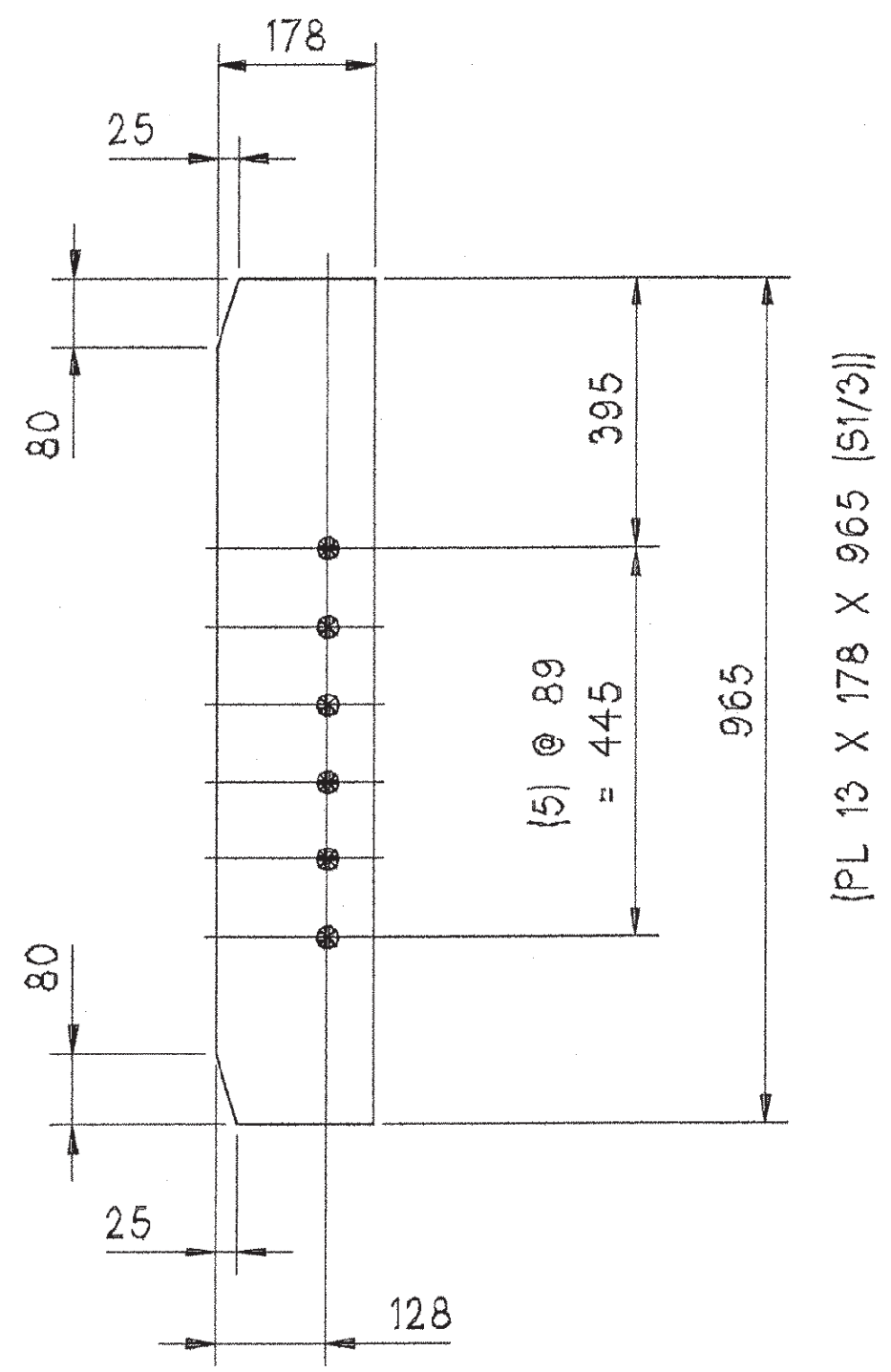
cs3 - (3) REQ'D.

CSPREP



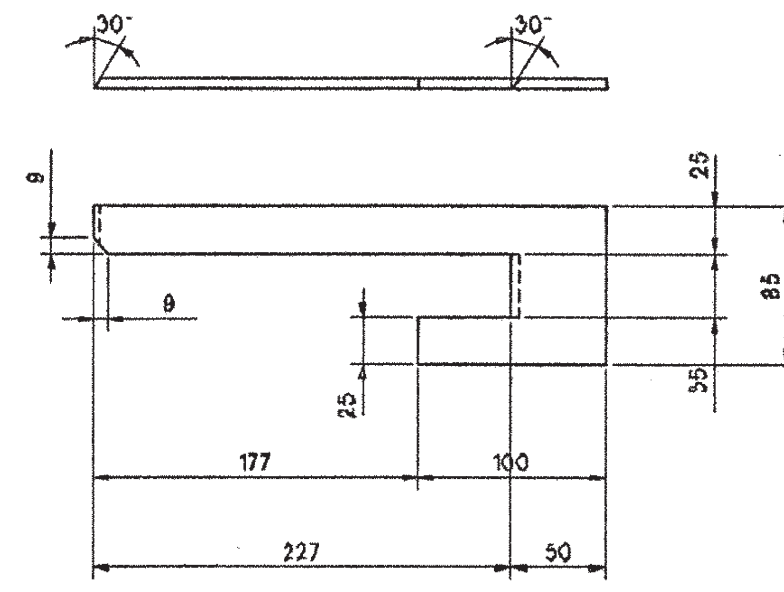
cs4 - (3) REQ'D.

CSPREP

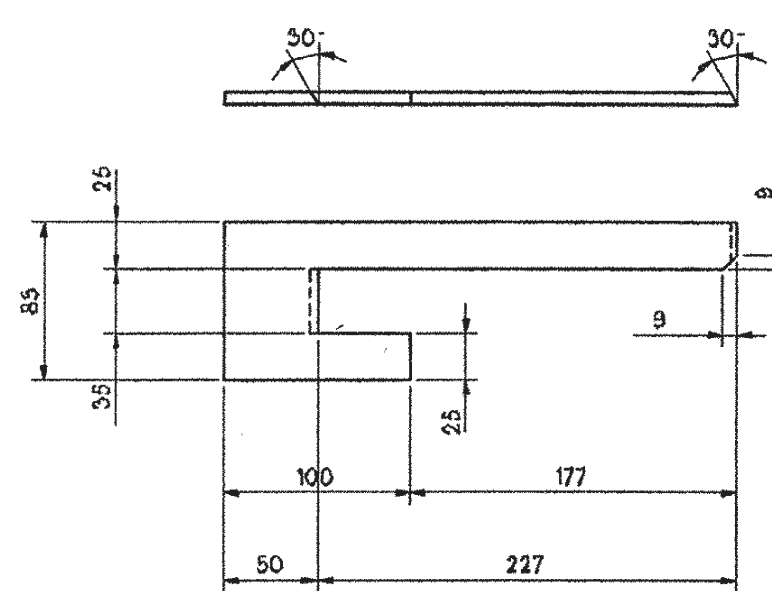


cs5 - (3) REQ'D.

CSPREP



db1R - (ONE) REQ'D.



db1L - (ONE) REQ'D.

DBPREP

(PL 6 X 85 X 277 [51/9])

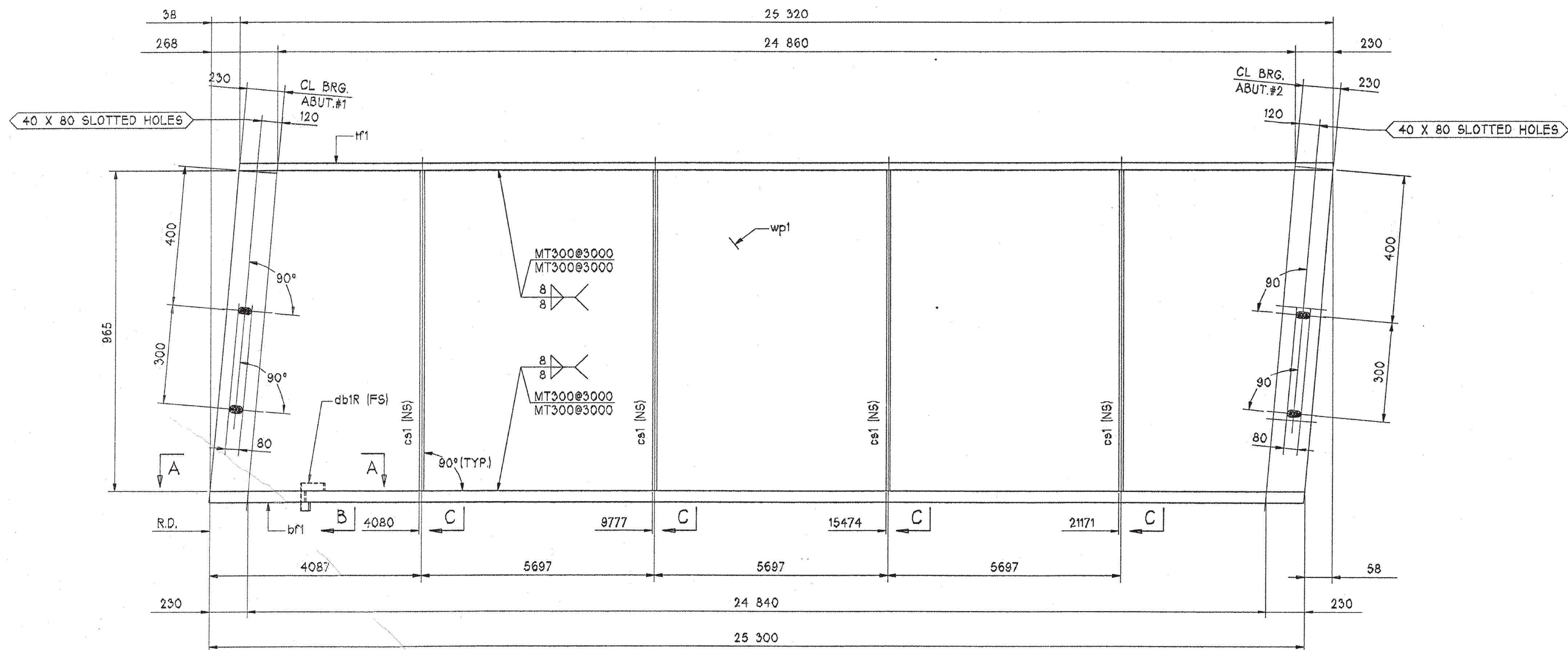
RECEIVED
CHK'D BY: *CH* OK'D BY: *CH*
APR 14 2003
RESUBMIT: ☒ APPROVED: ☒
BY: *GS/L* DATE: *4/15/03*

FOR APPROVAL

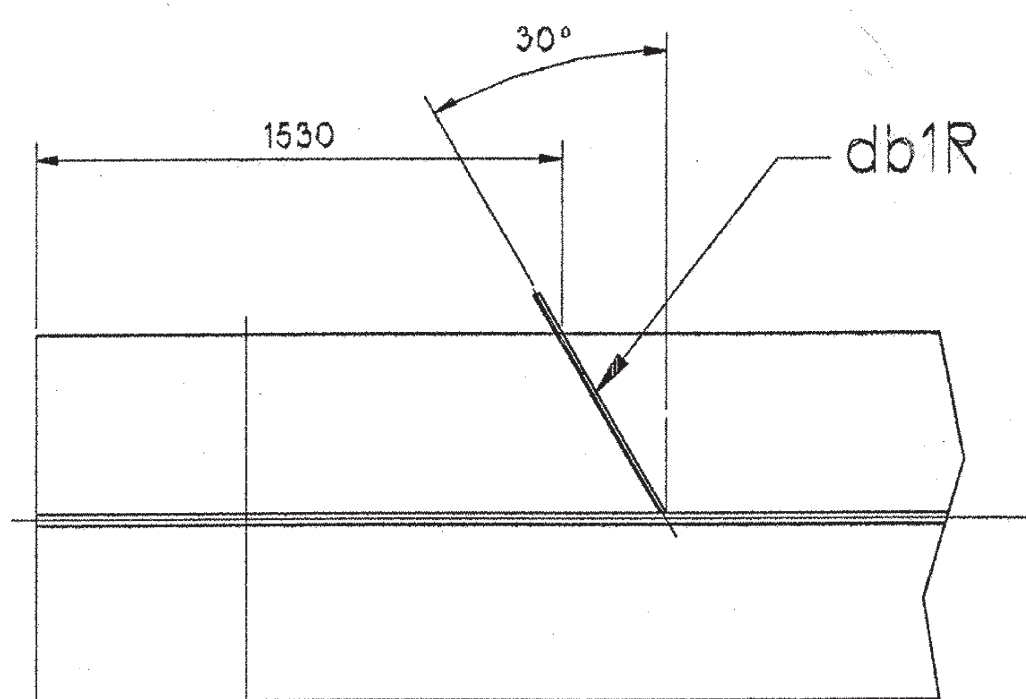
M270,GR.345W

STEEL: ASTM		☐ A709-36	☐ A709-50	☒ A709-50W	☒ Unless Noted
WELDING ELECTRODE:		☐ E70	☐ See Welding Proc.		
HOLES:		☐ 13/16	☒ 15/16	☐ Unless Noted	☐ As Noted
PAINT:		☒ None	☐ Galv. After Fab.	☐ As Noted	☐ None
SPECIAL PAINT:		NONE			
SPECIAL CLEANING:		☐ Blast Clean SSPEC SP10	☒ None		
ITEM NO.	50655	BR. NO.	6	PROJ. NO.	BRO 1443(32)
TITLE: GIRDER STANDARD DETAILS					
APPROVED:		 STRUCTURAL STEEL FABRICATORS MAJOR STEEL BRIDGES PLAINVILLE, CT 860-747-3700			
PRINT DIST.					
6	3/25/03				
ORIG.	FAB.				
JOB:		CL 2 LOCAL BRIDGE NO. 6 RTE. TH 6 OVER THE POULTNEY RIVER RUTLAND COUNTY FAIRHAVEN, VERMONT - HAMPTON, NEW YORK			
CUSTOMER:		AUSTIN CONSTRUCTION, INC.			
DESIGNER:		VERMONT AGENCY OF TRANSPORTATION			
WORK ORDER NO.		15948		DRAWING NO.	10-2
CHECKED	DS/NEC	3/24/03			
DRAWN	RAB/NEC	3/13/03			

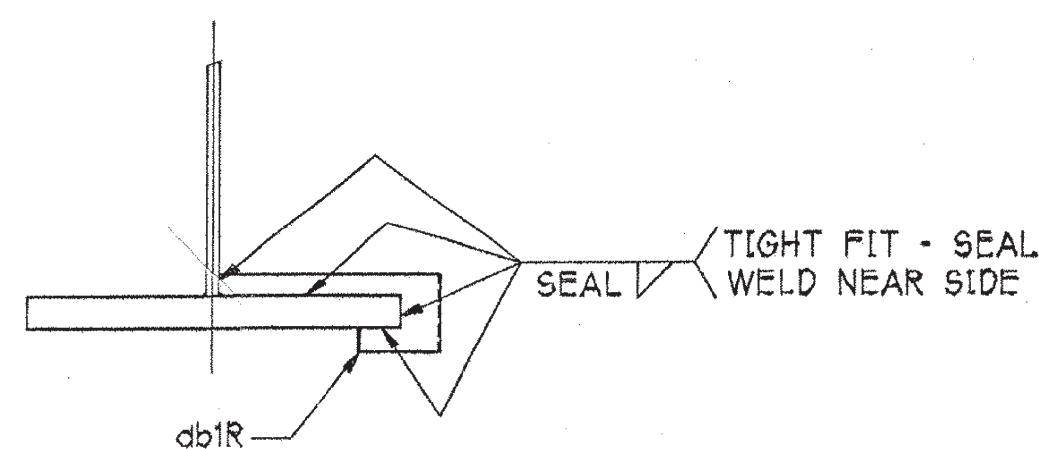
*** DO NOT SHIP ***



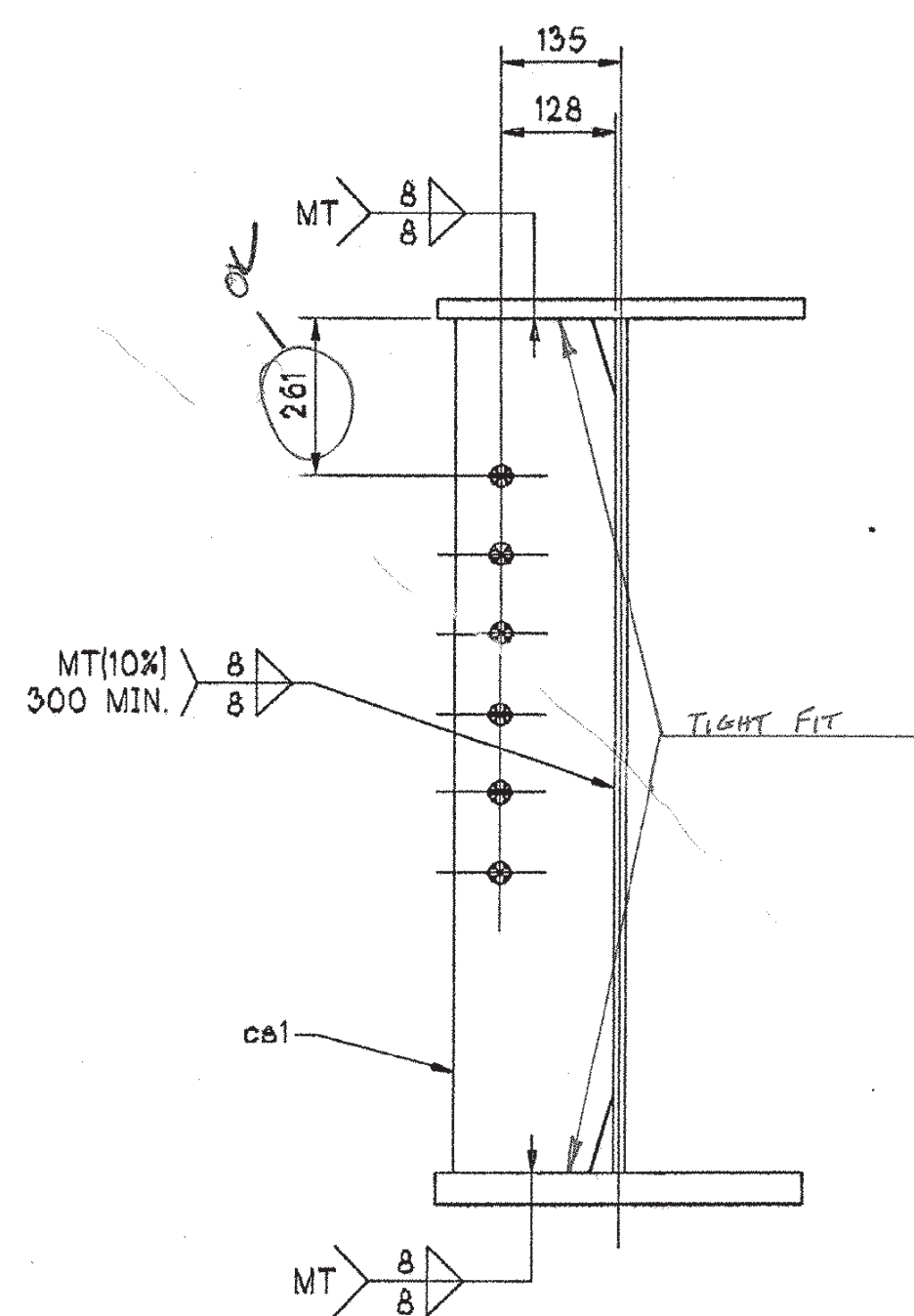
GIRDER MK. G1



SECTION A



SECTION B



SECTION C

BILL OF MATERIAL					WORK ORDER NO.	DRAWING NO.		REV.
MARK	QTY.	MK.	SHAPE	LENGTH	15948	10-3		
					WT.(KG)	PMR P/L	SUPPL. P/L	REMARKS
G1	ONE		GIRDER	25 358	7166			
	1	tf1	PL 22 X 406	25 320	1775	51 5		CVN-T2
	1	wp1	PL 13 X 965	25 358	2498	51 2		CVN-T2
	1	bf1	PL 35 X 406	25 300	2822	51 6		CVN-T2
	4	cs1	PL 13 X 178	965	70	51 3		
	1	db1R	PL 6 X 85	277	1	51 9		

RECEIVED
OK'D BY: *PL* OK'D BY: *CL*
MAR 25 2003
RESUBMIT: *AS NOTED* APPROVED: *AS NOTED*
BY: *CL* DATE: 4/15/03

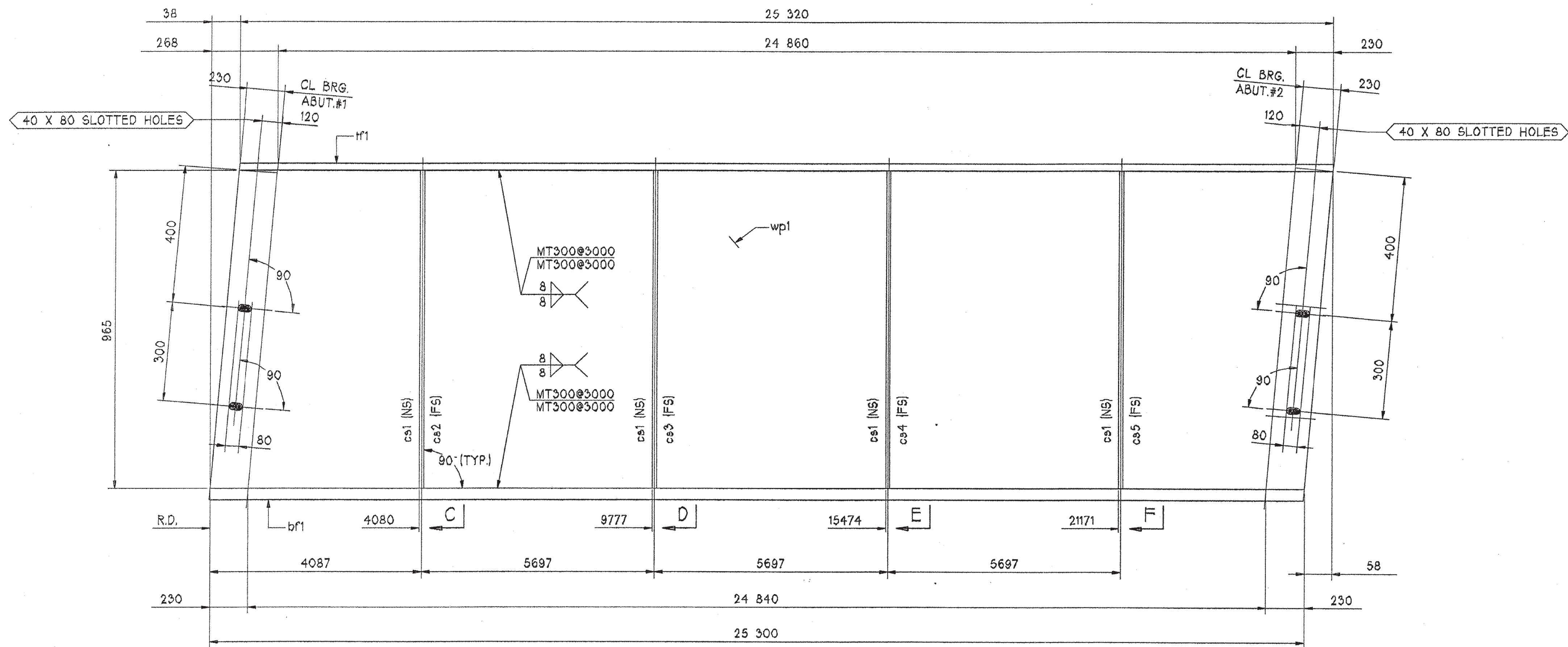
NOTES:

FOR APPROVAL

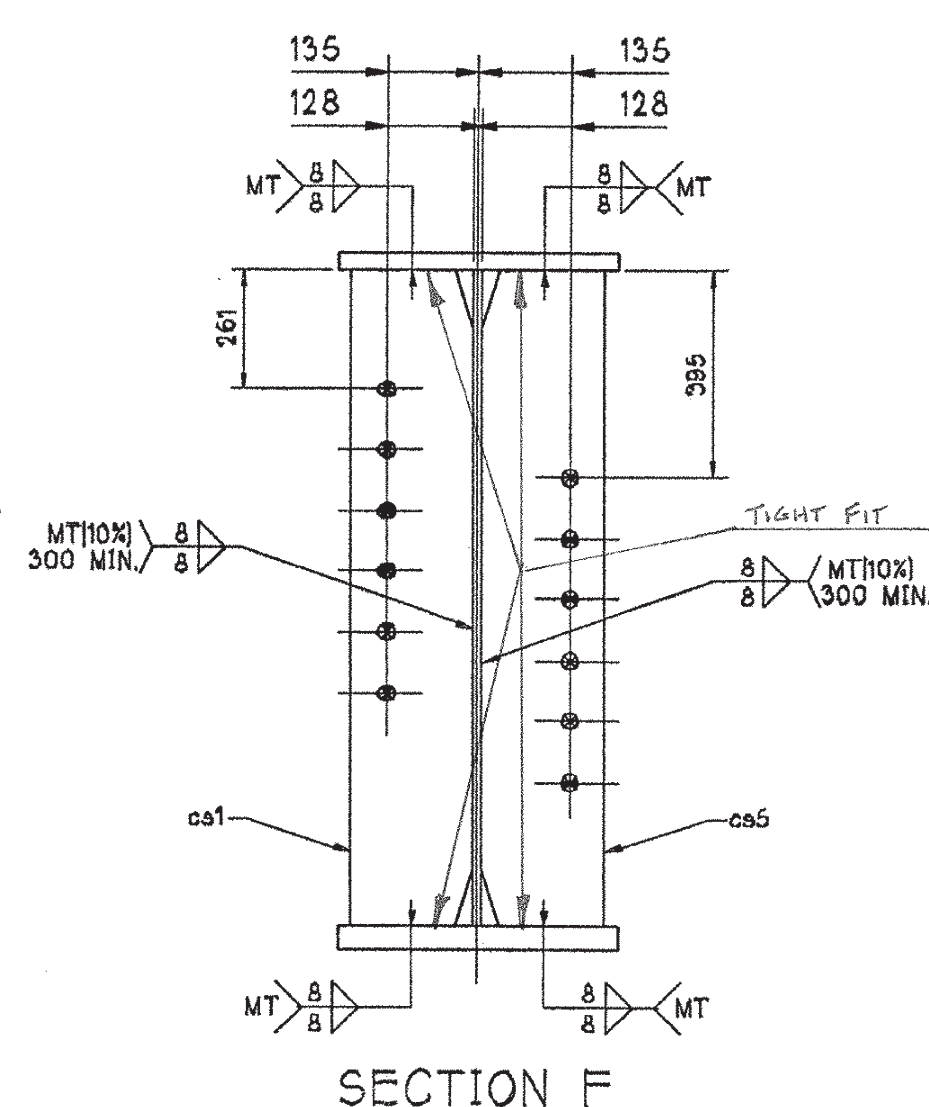
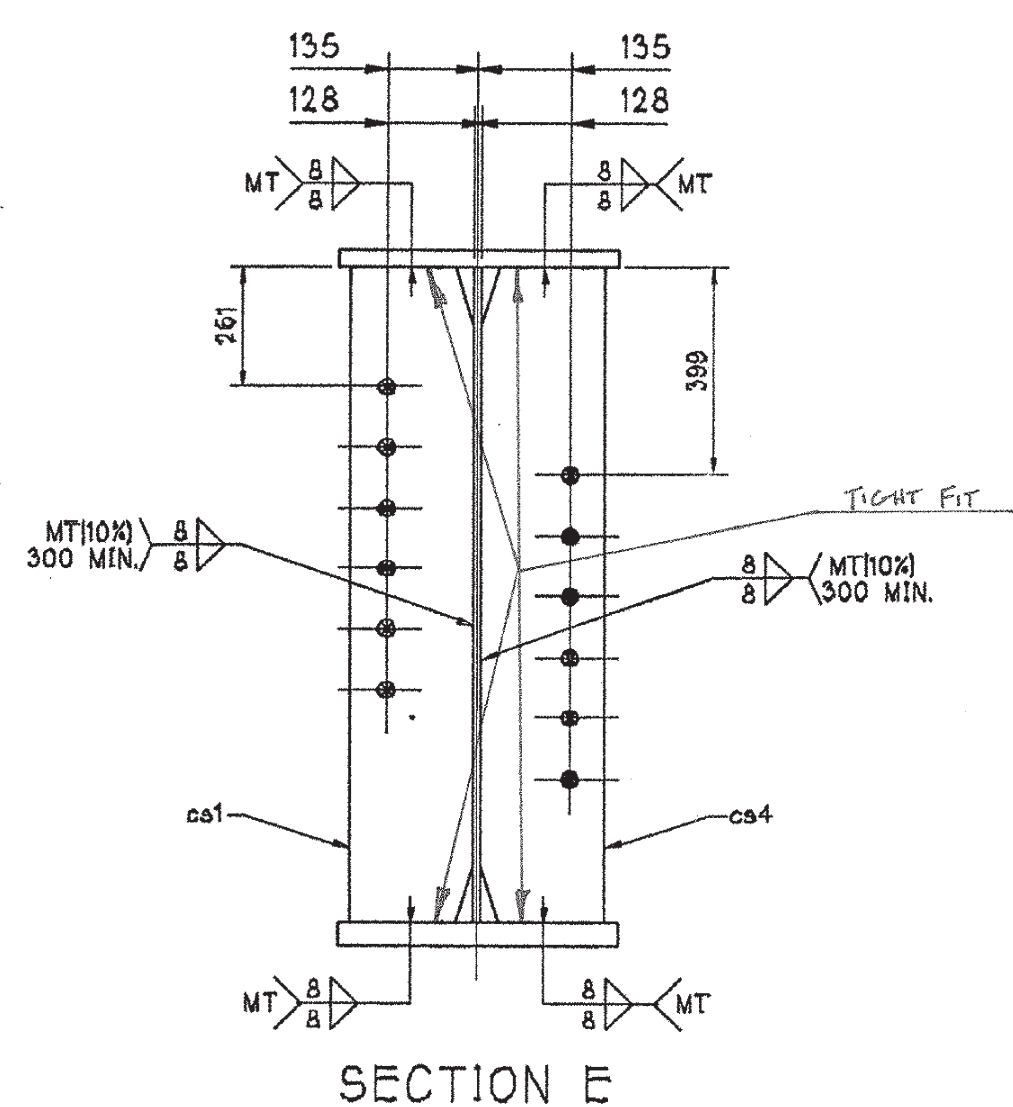
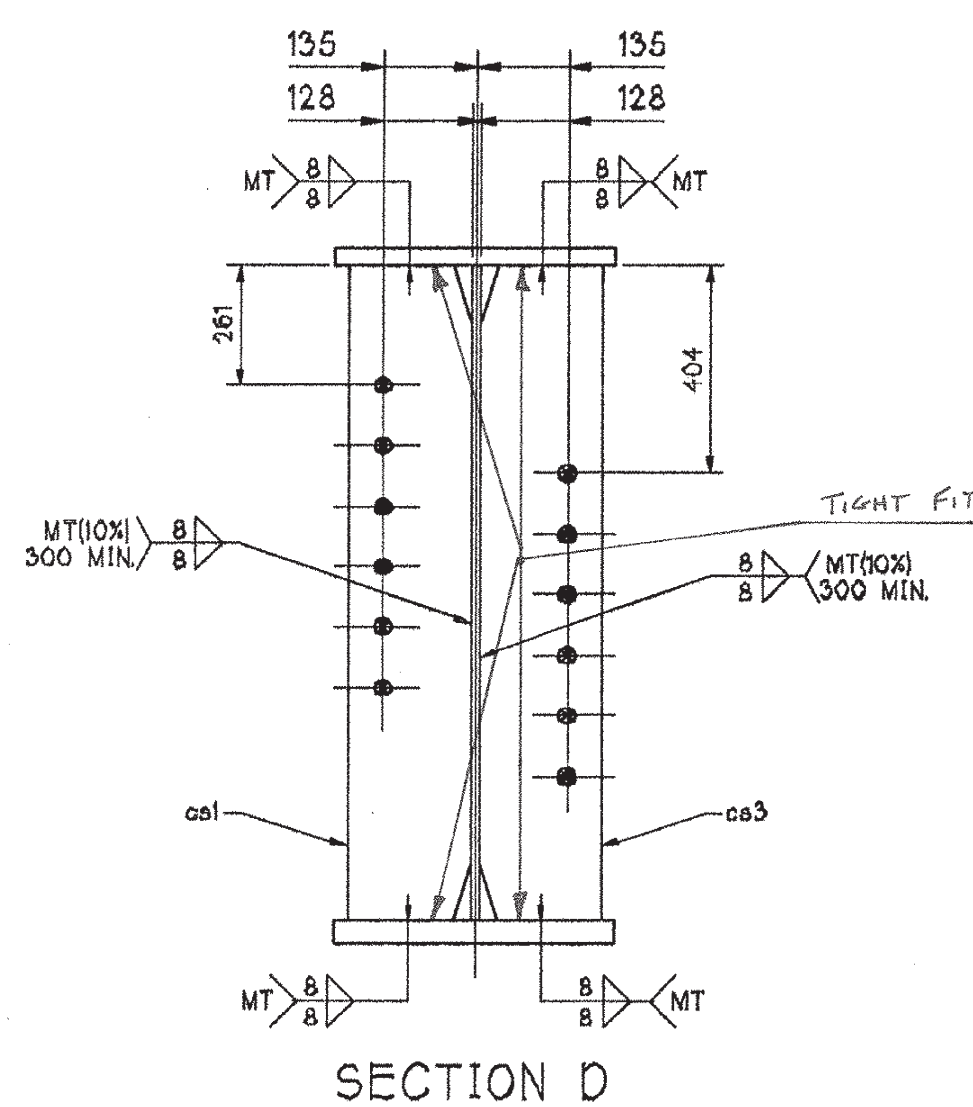
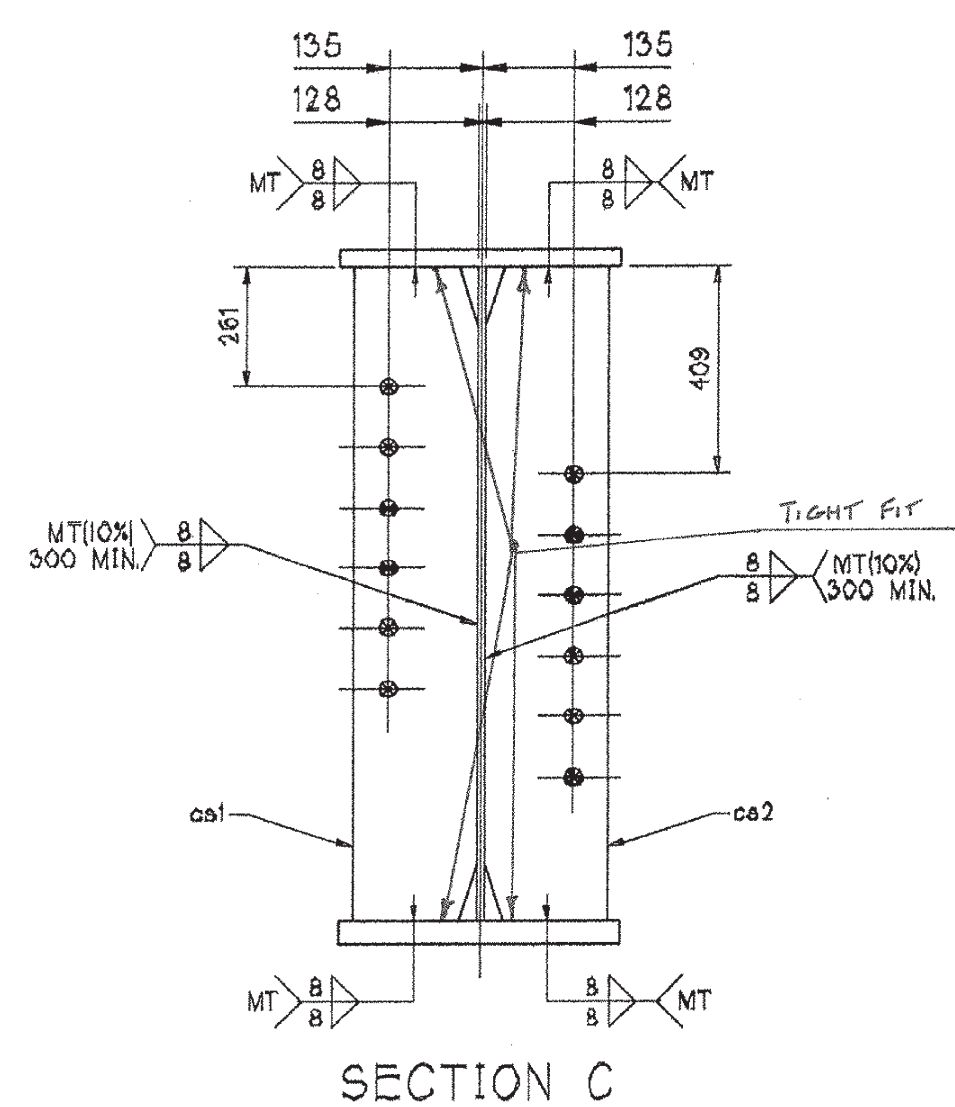
1. FOR CAMBER & FLG. CUTTING DIAGRAMS, SEE DWG. 10-1
2. FOR GIRDER STANDARD DETAILS, SEE DWG. 10-2
3. FOR GENERAL NOTES, SEE DWG. GN1

*: BLAST CLEAN BEFORE OR AFTER FAB. M270,GR.345W

STEEL: ASTM	☐ A709-36	☐ A709-50	☒ A709-50W	☒ Unless Noted
WELDING ELECTRODE:	☒ E70	☒ See Welding Proc.	☐ None	
HOLES:	☐ 13/16	☒ 15/16	☐ Unless Noted	☐ As Noted
PAINT:	☒ None	☐ Galv. After Fab.	☐ As Noted	
SPECIAL PAINT:	NONE - CLEAN FOR WEATHERING *			
SPECIAL CLEANING:	☒ Blast Clean	☐ SSPC SP10	☐ None	
ITEM NO.	506.55	BR. NO.	6	PROJ. NO. BRO 1443(32)
TITLE: GIRDER DETAILS - G1				
APPROVED:		 STRUCTURAL STEEL FABRICATORS MAJOR STEEL BRIDGES PLAINVILLE, CT 860-747-3700		
PRINT DIST.				
6	3/25/03			
ORIG.	FAB.			
JOB:		CL 2 LOCAL BRIDGE NO. 6 RTE. TH 6 OVER THE POULTNEY RIVER RUTLAND COUNTY FAIRHAVEN, VERMONT - HAMPTON, NEW YORK		
CUSTOMER:		AUSTIN CONSTRUCTION, INC.		
DESIGNER:		VERMONT AGENCY OF TRANSPORTATION		
WORK ORDER NO.		DRAWING NO.		
15948		10-3		
CHECKED	DS/NEC	3/24/03		
DRAWN	RAB/NEC	3/18/03		



GIRDER MK. G2



BILL OF MATERIAL					WORK ORDER NO.	DRAWING NO.		REV.
MARK	QTY.	MK.	SHAPE	LENGTH	15948	10-4		
					WT.(KG)	PMR P/L	SUPPL. P/L	REMARKS
G2	ONE		GIRDER	25 358	7235			
	1	tf1	PL 22 X 406	25 320	1775	51 5	CVN-T2	
	1	wp1	PL 13 X 965	25 358	2498	51 2	CVN-T2	
	1	bf1	PL 35 X 406	25 300	2822	51 6	CVN-T2	
	4	cs1	PL 13 X 178	965	70	51 3		
	1	cs2	PL 13 X 178	965	17.5	51 3		
	1	cs3	PL 13 X 178	965	17.5	51 3		
	1	cs4	PL 13 X 178	965	17.5	51 3		
	1	cs5	PL 13 X 178	965	17.5	51 3		

RECEIVED
 CKD BY *ML* CKD BY *CM*
 APR 14 2003
 RESUBMIT *ASNOTED*
 BY *GS R* DATE *4/15/03*

FOR APPROVAL

NOTES:

1. FOR CAMBER & FLG. CUTTING DIAGRAMS, SEE DWG. 10-1
2. FOR GIRDER STANDARD DETAILS, SEE DWG. 10-2
3. FOR GENERAL NOTES, SEE DWG. GN1

*: BLAST CLEAN BEFORE OR AFTER FAB. M270,GR.345W

STEEL: ASTM ☐ A709-36 ☐ A709-50 ☒ A709-50W ☐ Unless Noted

WELDING ELECTRODE: ☒ E70 ☐ See Welding Proc. ☐ None

HOLES: ☐ 13/16 ☒ 15/16 ☐ Unless Noted ☐ As Noted ☐ None

PAINT: ☒ None ☐ Galv. After Fab. ☐ As Noted

SPECIAL PAINT: NONE - CLEAN FOR WEATHERING *

SPECIAL CLEANING: ☒ Blast Clean SSPC SP10 * ☐ None

ITEM NO. 506.55 BR. NO. 6 PROJ. NO. BRO 1443(32)

TITLE: GIRDER DETAILS - G2

APPROVED: *national eastern*
 PRINT DIST. 6 3/25/03 APPR. FAB. PLAINVILLE, CT 860-747-3700

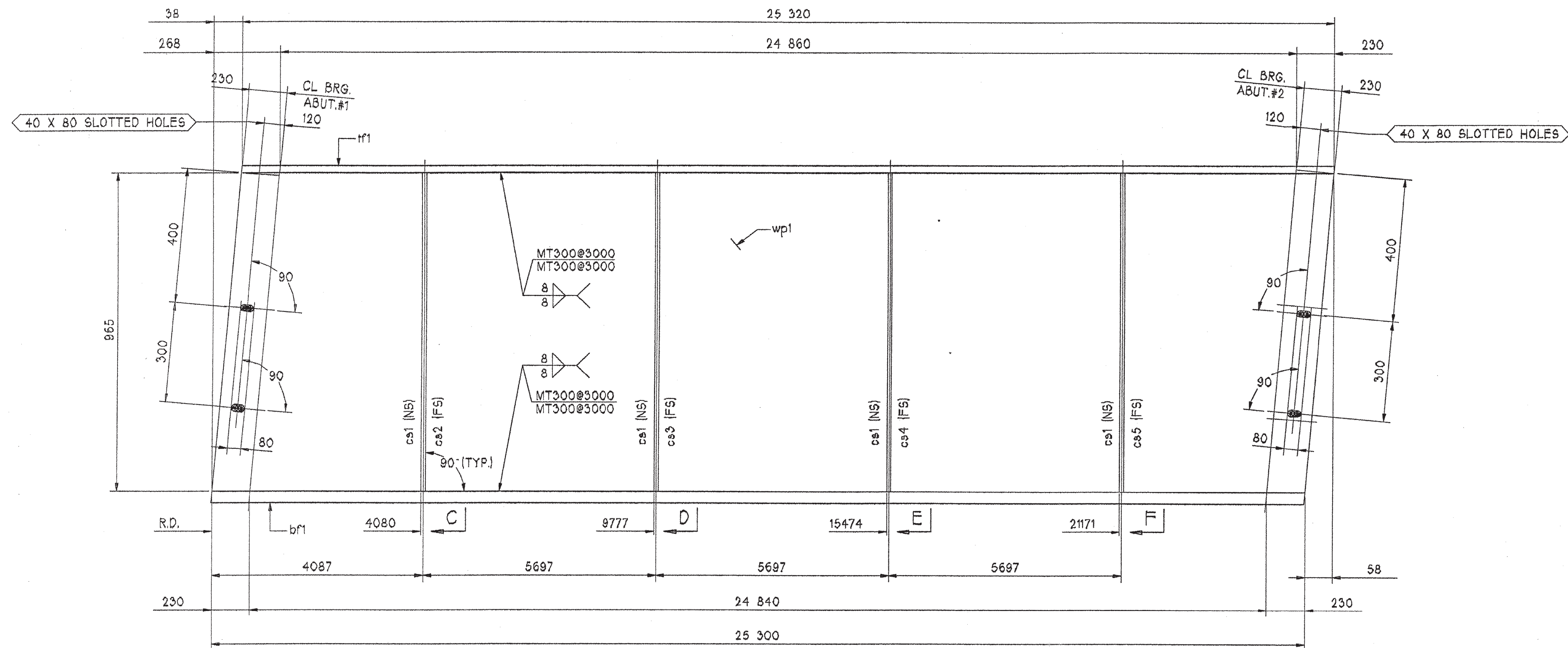
JOB: CL 2 LOCAL BRIDGE NO. 6
 RTE. TH 6 OVER THE POULTNEY RIVER
 RUTLAND COUNTY
 FAIRHAVEN, VERMONT - HAMPTON, NEW YORK

CUSTOMER: AUSTIN CONSTRUCTION, INC.

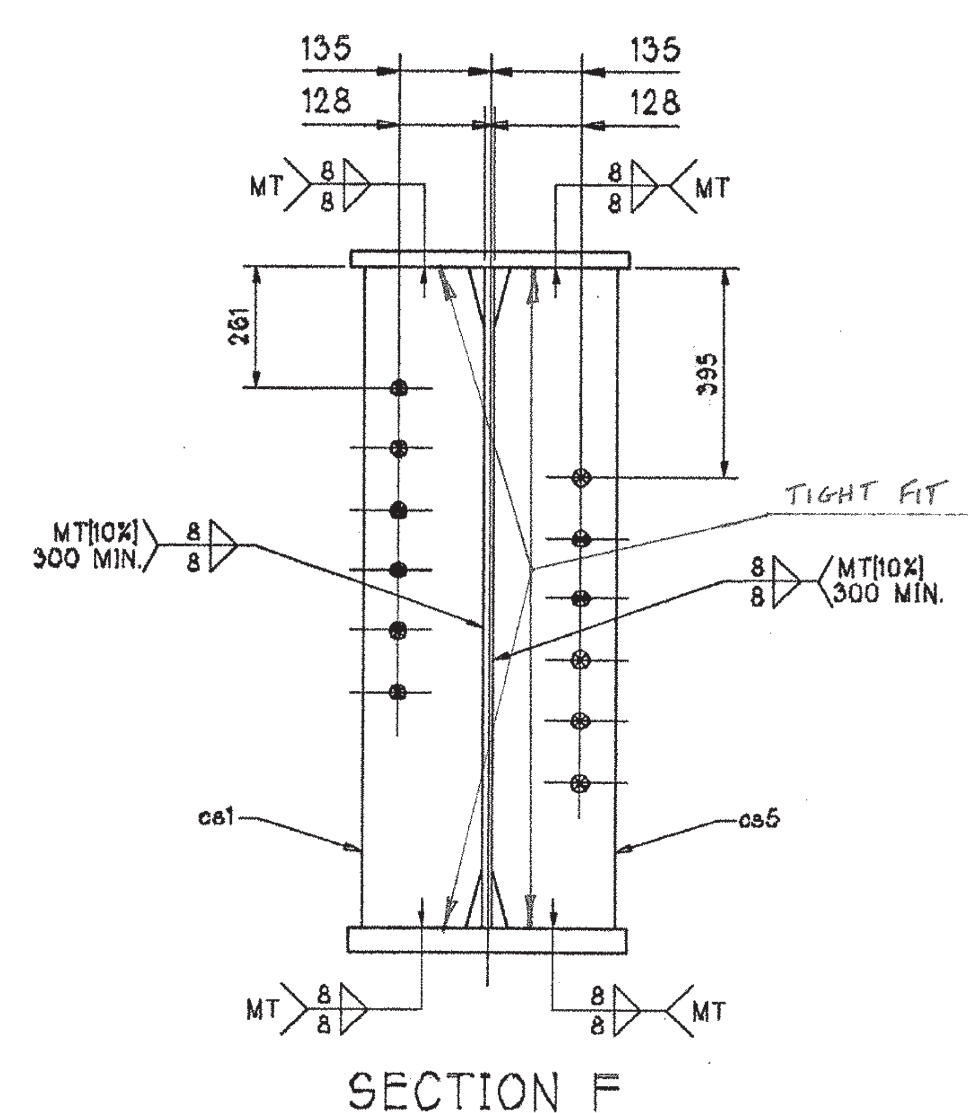
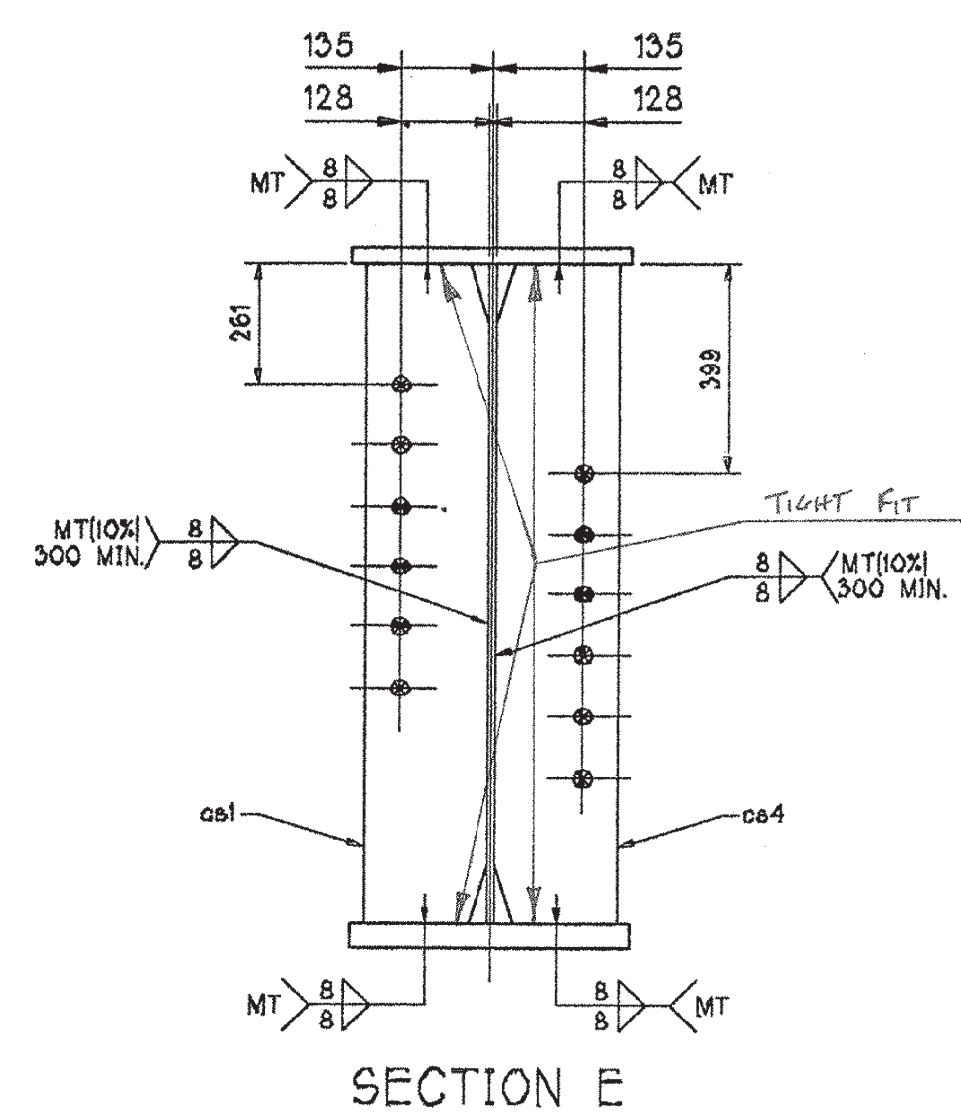
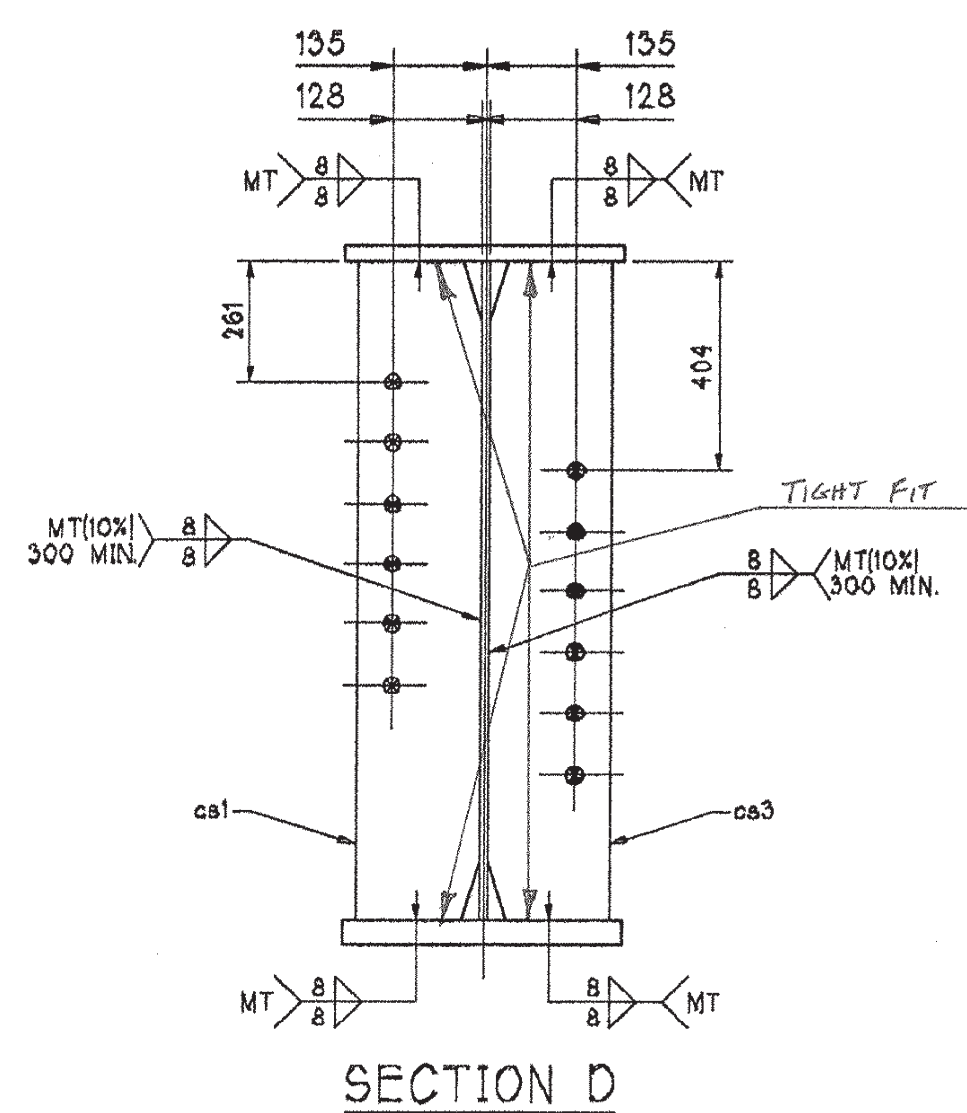
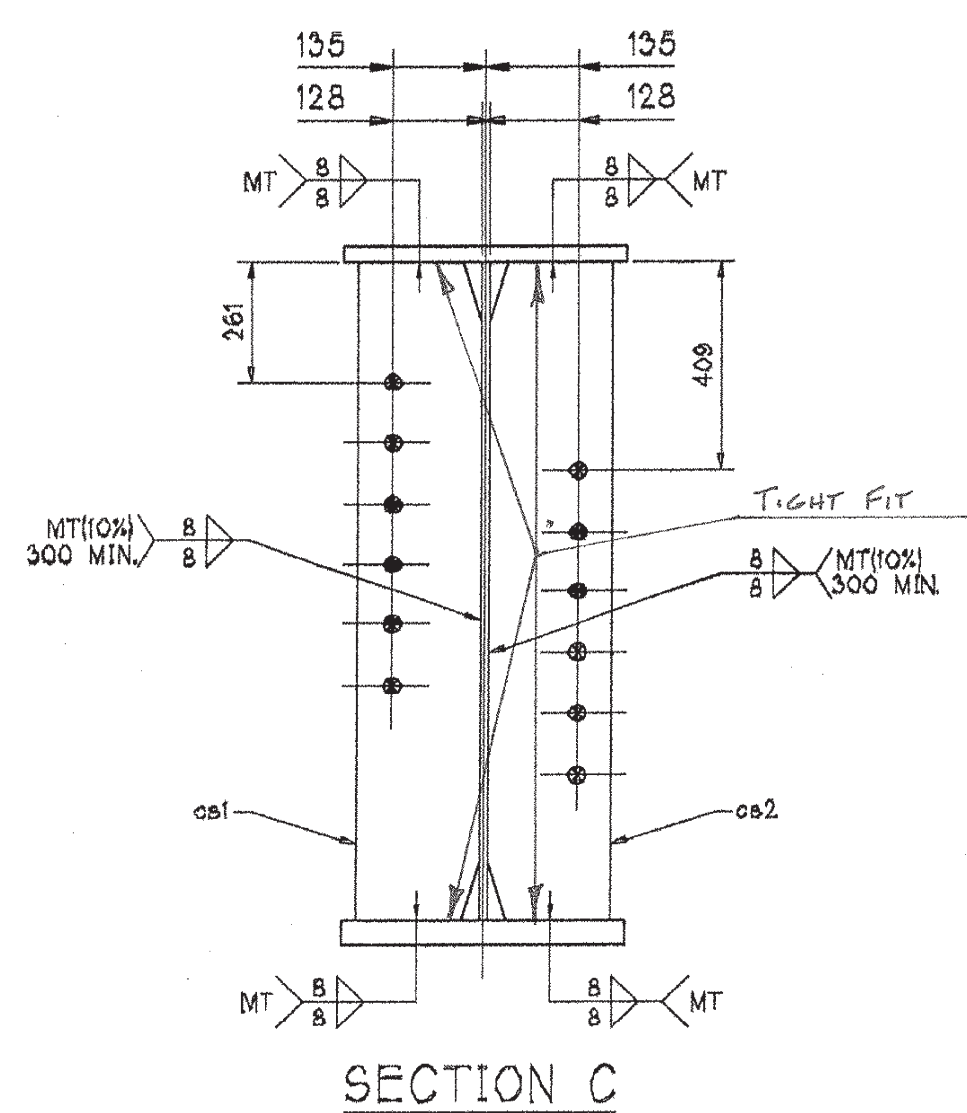
DESIGNER: VERMONT AGENCY OF TRANSPORTATION

WORK ORDER NO. 15948 DRAWING NO. 10-4 REV.

CHECKED DS/NEC 3/24/03
 DRAWN RAD/NEC 3/18/03



GIRDER MK. G3



BILL OF MATERIAL					WORK ORDER NO.	DRAWING NO.		REV.
					15948	10-5		
MARK	QTY.	MK.	SHAPE	LENGTH	WT.(KG)	PMR P/L	SUPPL. P/L	REMARKS
G3	ONE		GIRDER	25 358	7235			
	1	if1	PL 22 X 406	25 320	1775	51 5		CVN-T2
	1	wp1	PL 13 X 965	25 358	2498	51 3		CVN-T2
	1	bf1	PL 35 X 406	25 300	2822	51 6		CVN-T2
	4	cs1	PL 13 X 178	965	70	51 3		
	1	cs2	PL 13 X 178	965	17.5	51 3		
	1	cs3	PL 13 X 178	965	17.5	51 3		
	1	cs4	PL 13 X 178	965	17.5	51 3		
	1	cs5	PL 13 X 178	965	17.5	51 3		

RECEIVED
 OK'D BY: *ML* OK'D BY: *CM*
 APR 14 2003
 RESUBMIT APPROVED *AS NOTED*
 BY *GSR* DATE *4/15/03*

FOR APPROVAL

NOTES:

1. FOR CAMBER & FLG. CUTTING DIAGRAMS, SEE DWG. 10-1
2. FOR GIRDER STANDARD DETAILS, SEE DWG. 10-2
3. FOR GENERAL NOTES, SEE DWG. GN1

*: BLAST CLEAN BEFORE OR AFTER FAB. M270,GR.3+5W

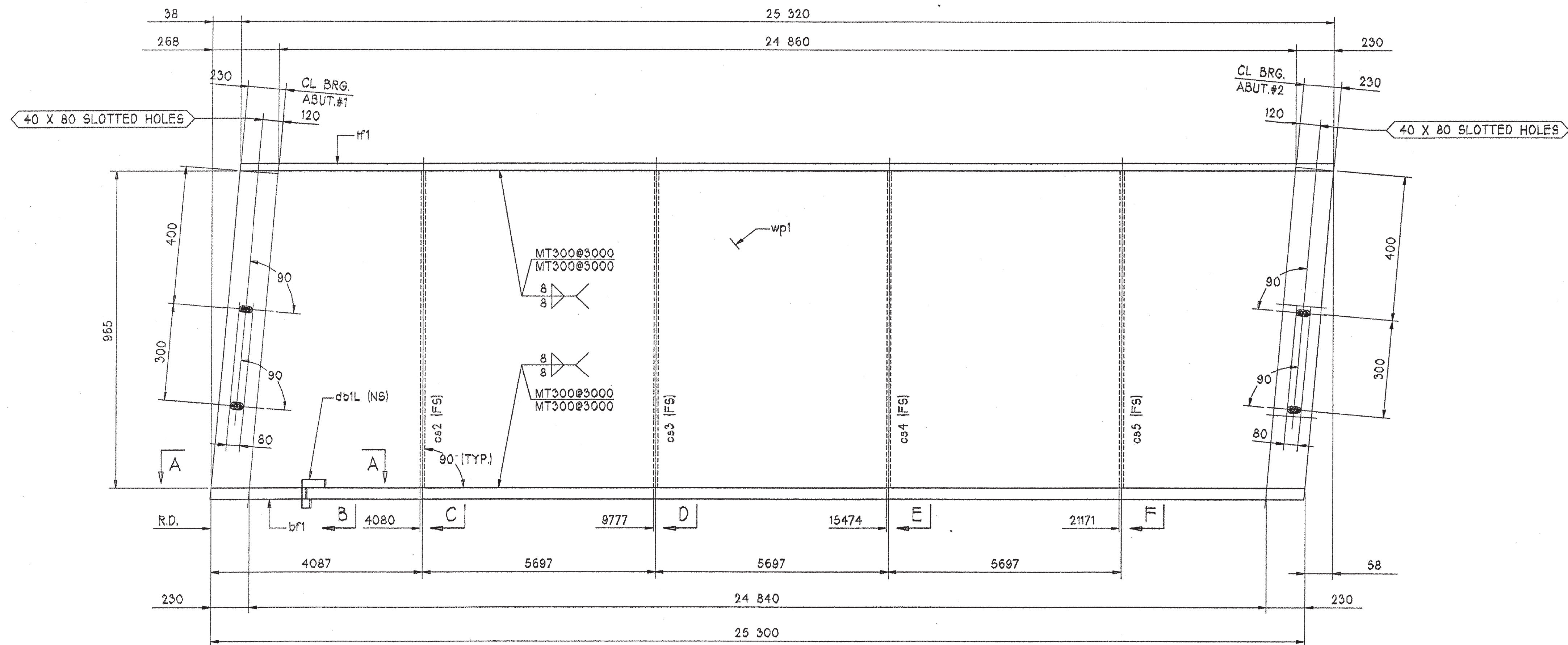
STEEL: ASTM	☐ A709-36	☐ A709-50	☒ A709-50W	☐ Unless Noted
WELDING ELECTRODE:	☒ E70	☐ See Welding Proc.	☐ None	
HOLES:	☐ 13/16	☒ 15/16	☐ Unless Noted	☐ As Noted
PAIN:	☒ None	☐ Galv. After Fab.	☐ As Noted	
SPECIAL PAINT:	NONE - CLEAN FOR WEATHERING *			
SPECIAL CLEANING:	☒ Blast Clean	☐ SSPC SP10	☐ None	

ITEM NO.	506.55	BR. NO.	6	PROJ. NO.	BRO 1443(32)
TITLE: GIRDER DETAILS - G3					

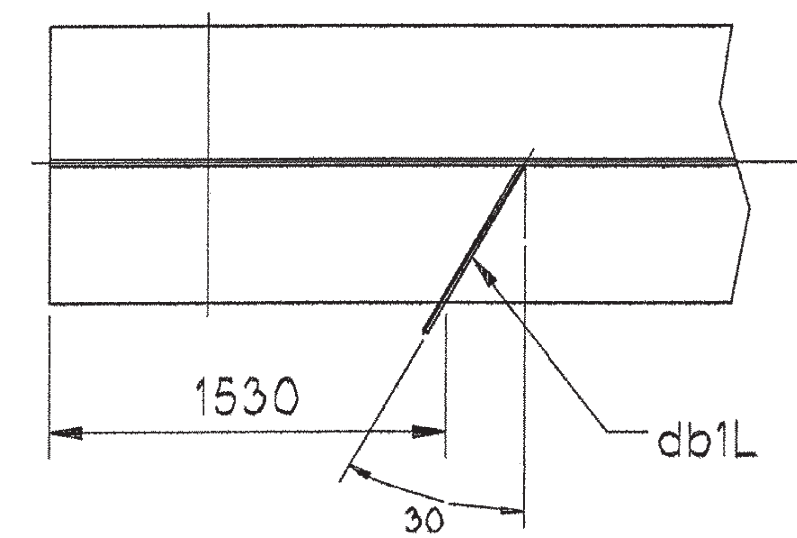
APPROVED:	 STRUCTURAL STEEL FABRICATORS MAJOR STEEL BRIDGES 860-747-3700
PRINT DIST.	
6 3/25/03 APPR.	
ORIG. FAB.	

JOB:	CL 2 LOCAL BRIDGE NO. 6 RTE. TH 6 OVER THE POULTNEY RIVER RUTLAND COUNTY FAIRHAVEN, VERMONT - HAMPTON, NEW YORK
CUSTOMER:	AUSTIN CONSTRUCTION, INC.
DESIGNER:	VERMONT AGENCY OF TRANSPORTATION
WORK ORDER NO.	15948
DRAWING NO.	10-5
REV.	

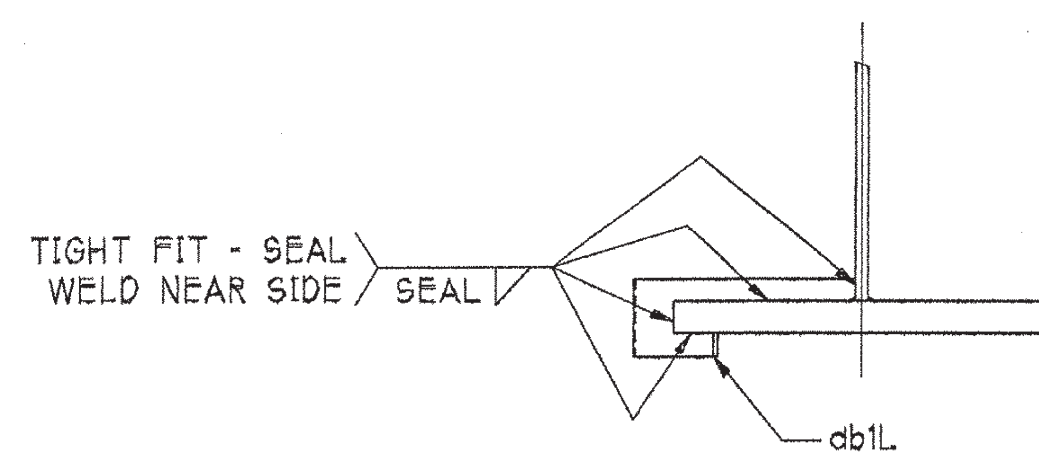
CHECKED	DS/NEC	3/24/03
DRAWN	RAB/NEC	3/18/03



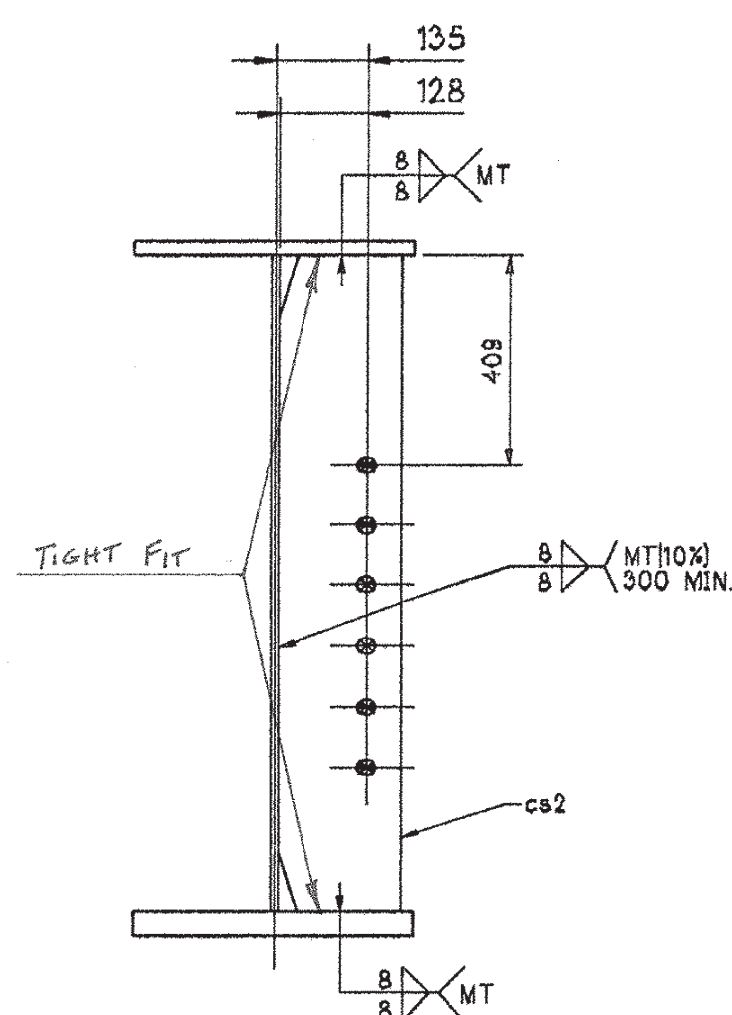
GIRDER MK. G4



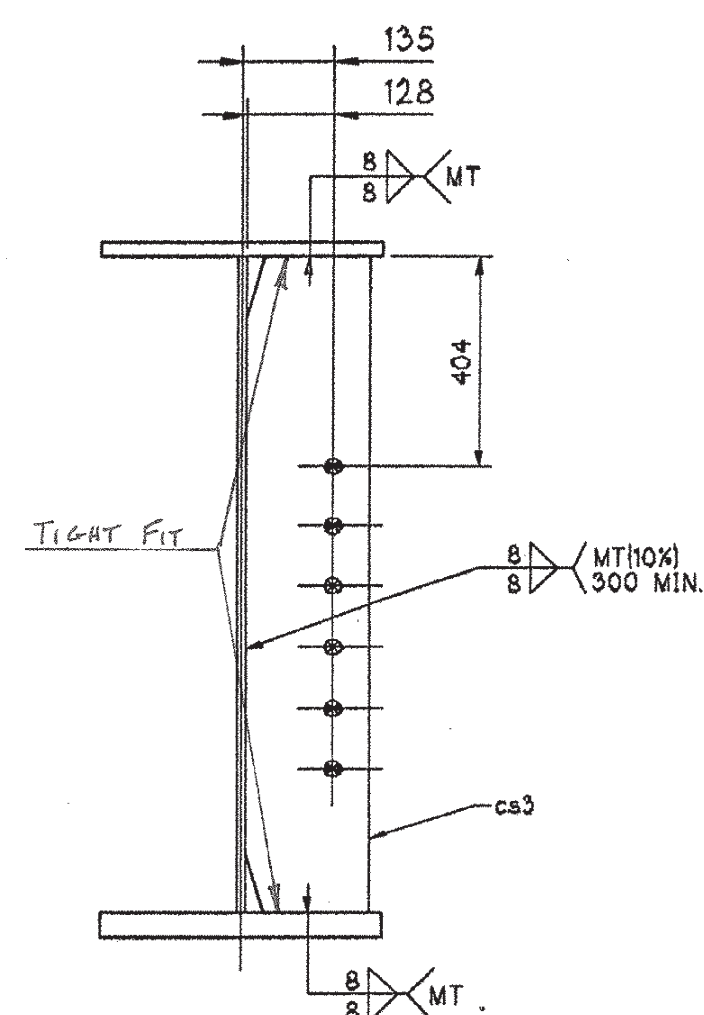
SECTION A



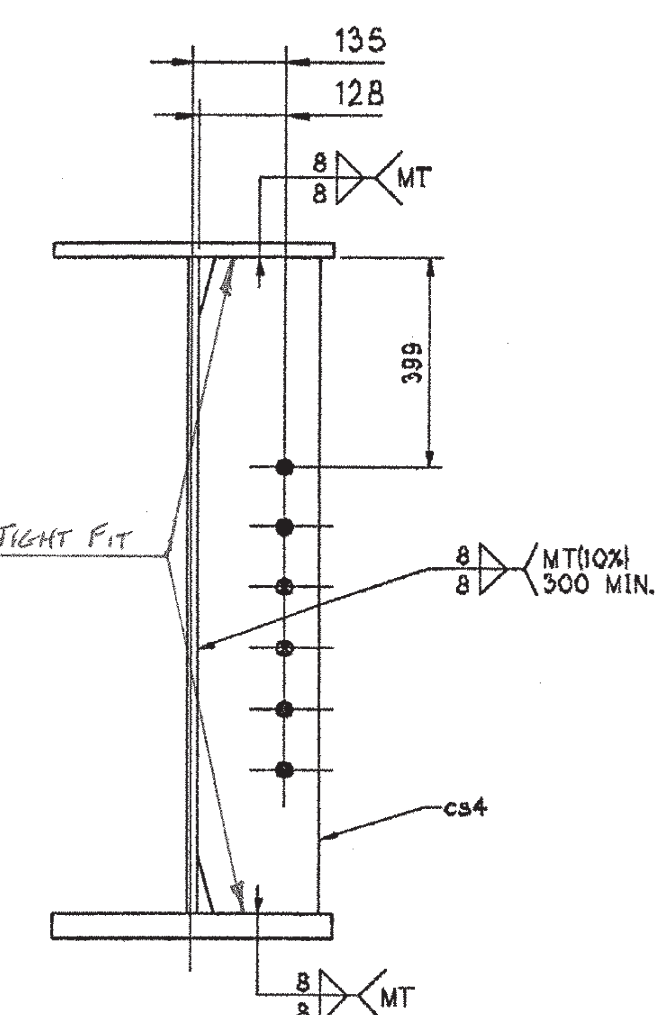
SECTION B



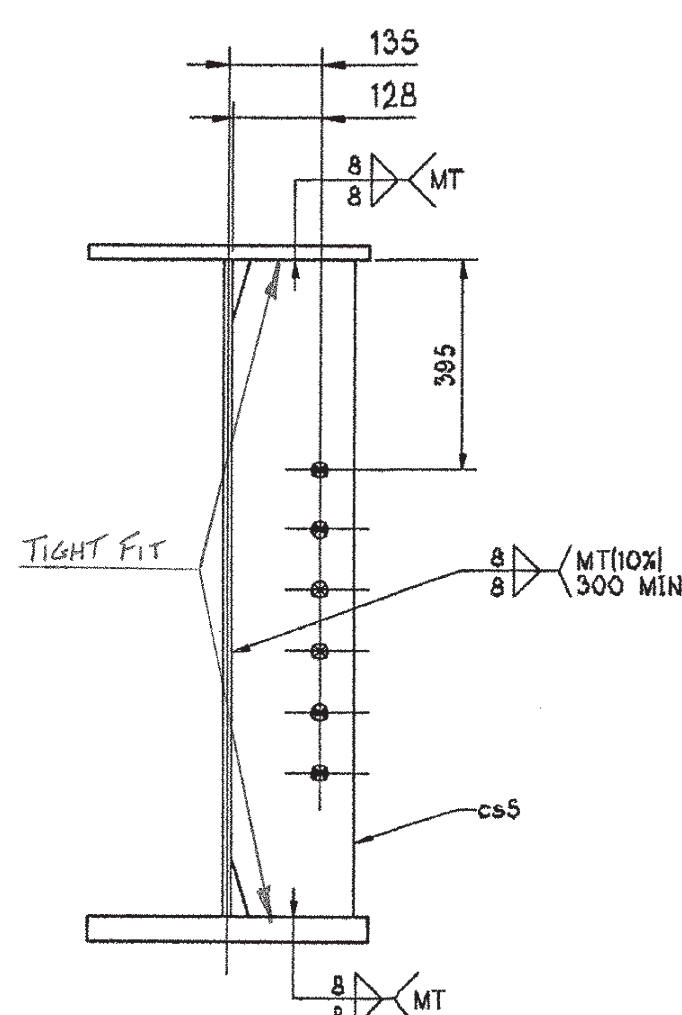
SECTION C



SECTION D



SECTION E



SECTION F

BILL OF MATERIAL					WORK ORDER NO.	DRAWING NO.		REV.
MARK	QTY.	MK.	SHAPE	LENGTH	15948	10-6		
					WT.(KG)	PMR P/L	SUPPL. P/L	REMARKS
G4	ONE		GIRDER	25 358	7166			
	1	if1	PL 22 X 406	25 320	1775	51 5	CVN-T2	
	1	wp1	PL 13 X 965	25 358	2498	51 3	CVN-T2	
	1	bf1	PL 35 X 406	25 300	2822	51 6	CVN-T2	
	1	cs2	PL 13 X 178	965	17.5	51 3		
	1	cs3	PL 13 X 178	965	17.5	51 3		
	1	cs4	PL 13 X 178	965	17.5	51 3		
	1	cs5	PL 13 X 178	965	17.5	51 3		
	1	db1L	PL 6 X 85	277	1	51 9		

RECEIVED
 OK'D BY: *HP* OK'D BY: *W*
 APR 14 2003
 RESUBMIT: *AS NOTED*
 BY: *CSR* DATE: *4/15/03*

NOTES:

FOR APPROVAL

- FOR CAMBER & FLG. CUTTING DIAGRAMS, SEE DWG. 10-1
- FOR GIRDER STANDARD DETAILS, SEE DWG. 10-2
- FOR GENERAL NOTES, SEE DWG. GN1

*: BLAST CLEAN BEFORE OR AFTER FAB. M270,GR.345W

STEEL: ASTM ☒ A709-36 ☐ A709-50 ☒ A709-50W ☐ Unless Noted

WELDING ELECTRODE: ☒ E70 ☐ See Welding Proc. ☐ None

HOLES: ☒ 13/16 ☒ 15/16 ☐ Unless Noted ☐ As Noted ☐ None

PAINT: ☒ None ☐ Galv. After Fab. ☐ As Noted

SPECIAL PAINT: NONE - CLEAN FOR WEATHERING *

SPECIAL CLEANING: ☒ Blast Clean SSPC SP10 * ☐ None

ITEM NO. 506.55 BR. NO. 6 PROJ. NO. BRO 1443(32)

TITLE: GIRDER DETAILS - G4

APPROVED: *national eastern*
 PRINT DIST. 3/25/03 APPR. *national eastern*
 ORIG. 3/25/03 FAB. *national eastern*
 PLAINVILLE, CT 860-747-3700

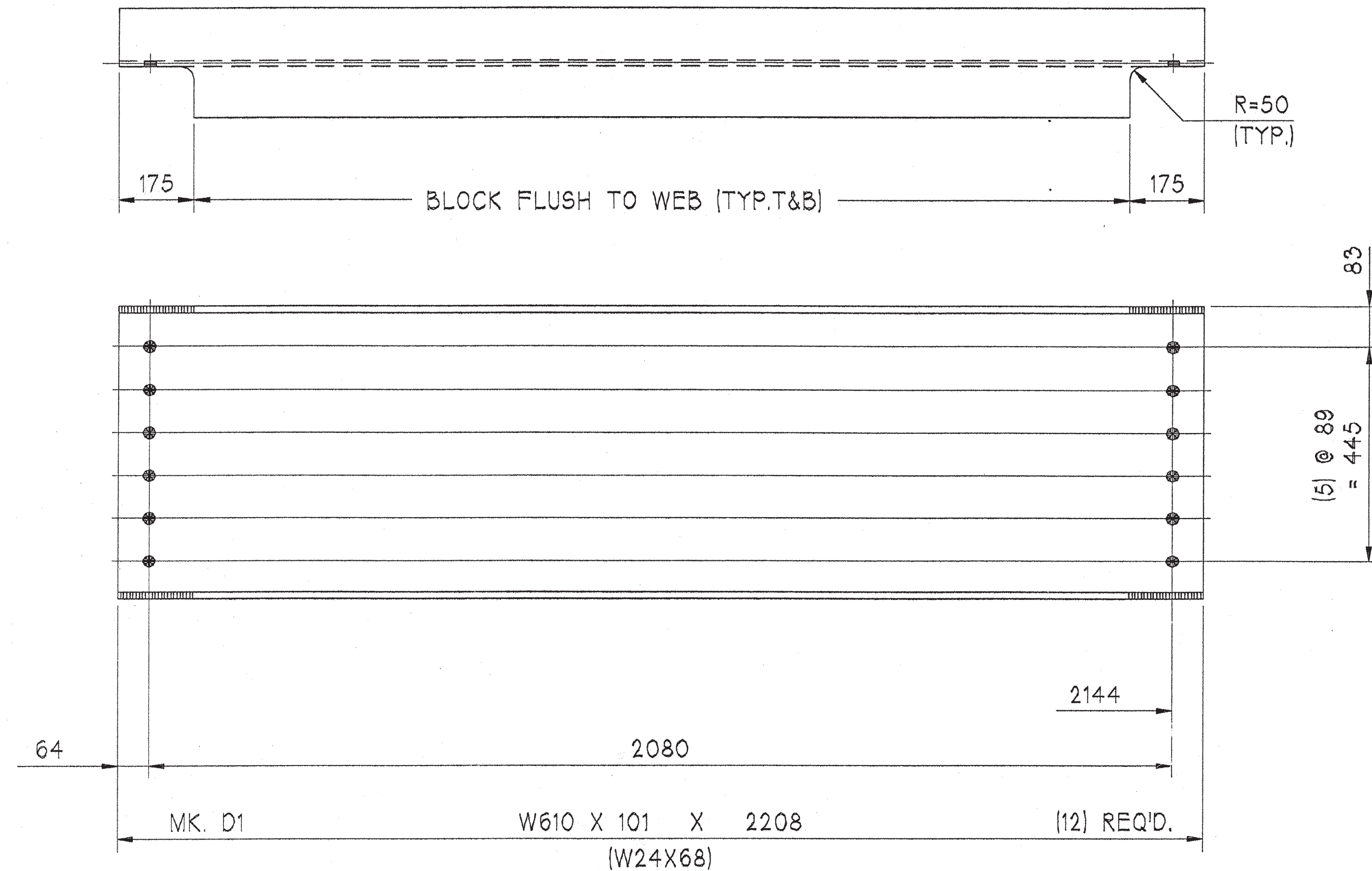
JOB: CL 2 LOCAL BRIDGE NO. 6
 RTE. TH 6 OVER THE POULTNEY RIVER
 RUTLAND COUNTY
 FAIRHAVEN, VERMONT - HAMPTON, NEW YORK

CUSTOMER: AUSTIN CONSTRUCTION, INC.

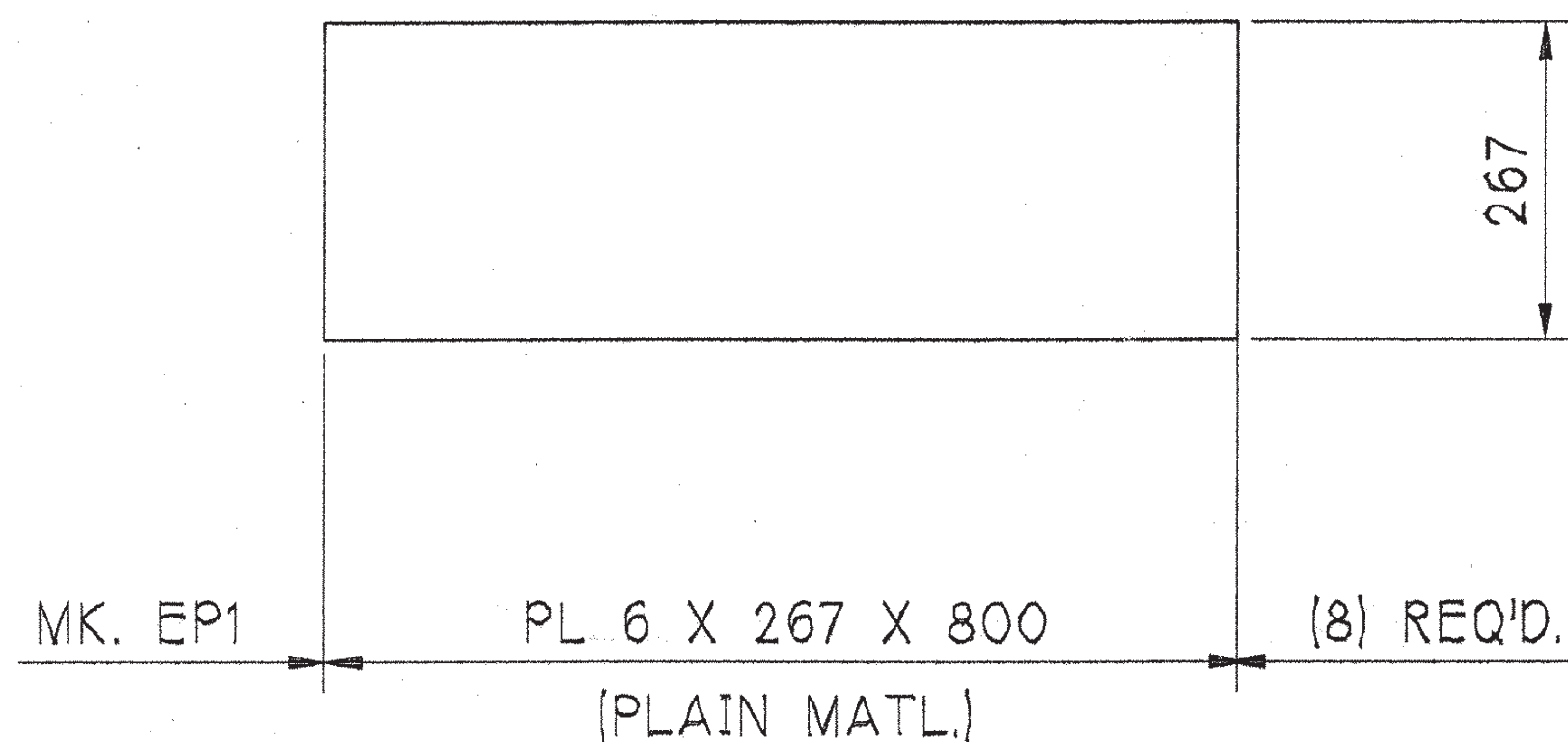
DESIGNER: VERMONT AGENCY OF TRANSPORTATION

WORK ORDER NO. 15948 DRAWING NO. 10-6 REV.

CHECKED DS/NEC 3/24/03
 DRAWN RAB/NEC 3/18/03



IDWSTR



ENDPLS

BILL OF MATERIAL					WORK ORDER NO.	DRAWING NO.	REV.	
MARK	QTY.	MARK	SHAPE	LENGTH	SHIP WT(KG)	15948	20-1	
						PMR P/L	SUPPL. P/L	REMARKS
D1	12		W610 X 101	2208	2676	S1 13		PAY WT.= 1735 KG (BASED ON ORIG.B.M. SIZE - W530X65.5)
EP1	8		PL 6 X 267	800	80	S1 10		PLAIN MATL.
FIELD BOLTS: ASTM A325-3, RCT. (QTY. INCLUDE EXTRAS)								
	150		HSB 22 DIA.	57	41	S2 3		HVY HEX BOLT
	150		HHN 22 DIA.		20	S2 5		HVY HEX NUT A563,GR DH3
	150		FW 22 DIA.		5	S2 6		FLATWASHER F436-3
	</							

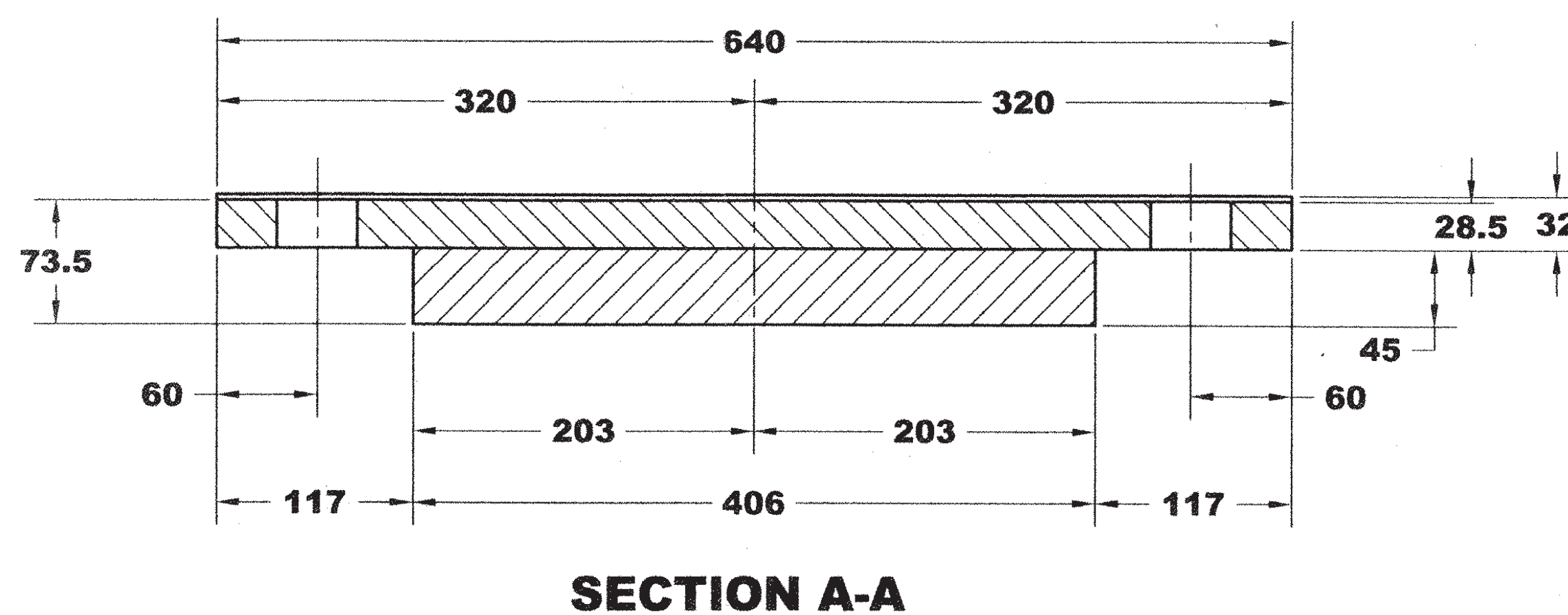
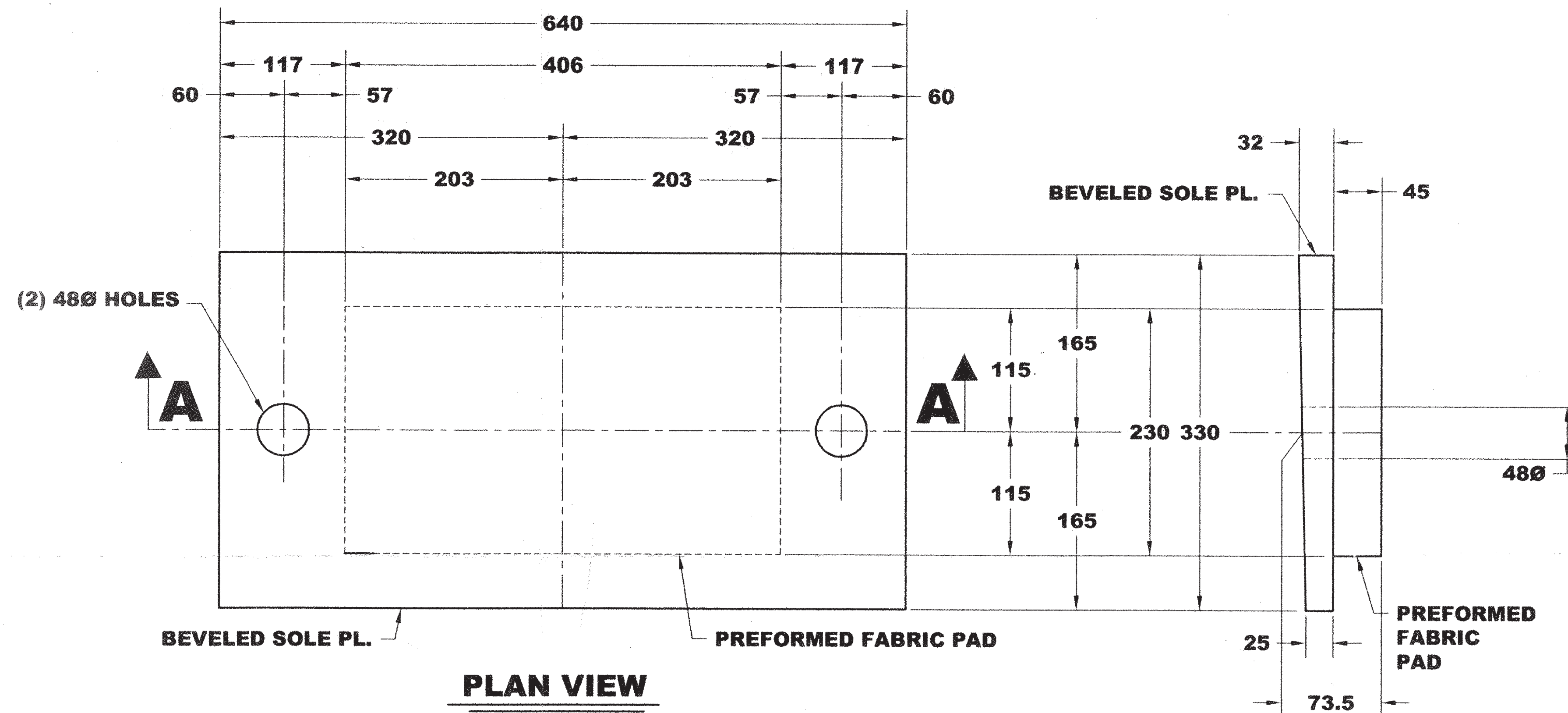
RECEIVED
 OK'D BY *PH* OK'D BY *C*
 MAR 25 2003
 RESUBMIT *✓* APPROVED *✓*
 BY *65/R* DATE *4/15/03*

FOR APPROVAL

*: BLAST CLEAN BEFORE OR AFTER FAB. M270,GR.345W

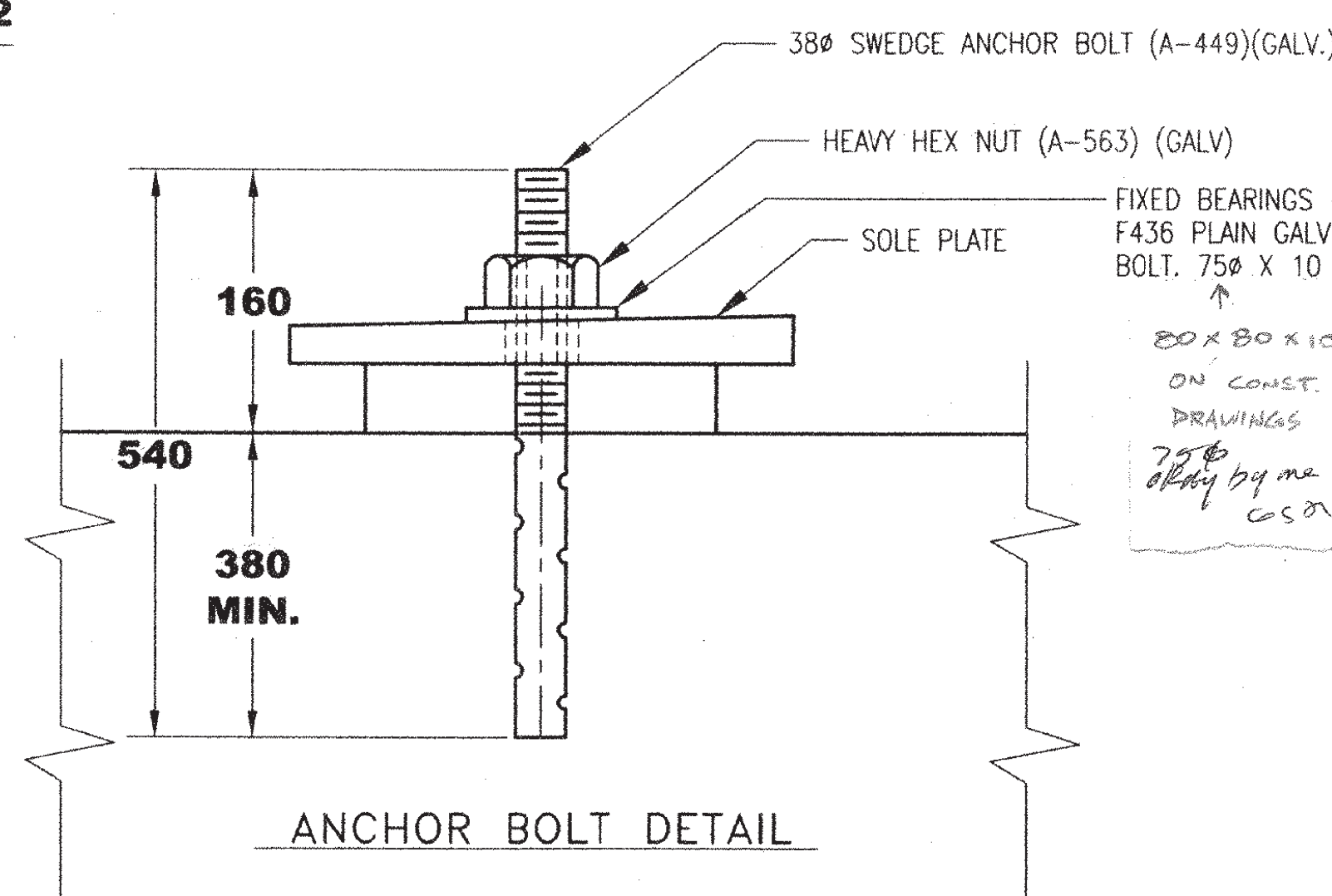
STEEL: ASTM		☐ A709-36	☐ A709-50	☒ A709-50W	☒ Unless Noted
WELDING ELECTRODE:		☐ E70	☐ See Welding Proc.		☒ None
HOLES:		☐ 13/16	☒ 15/16	☐ Unless Noted	☐ As Noted
PAINT:		☒ None	☐ Galv. After Fab.	☐ As Noted	☐ None
SPECIAL PAINT: NONE - CLEAN FOR WEATHERING *					
SPECIAL CLEANING:		☒ Blast Clean	☐ SSPC SP10	☐ None	
ITEM NO.	506.55	BR. NO.	6	PROJ. NO.	BRO 1443(32)
TITLE: DIAPHRAGM/MISC. DETAILS & FIELD BOLTS					
APPROVED:		 STRUCTURAL STEEL FABRICATORS MAJOR STEEL BRIDGES PLAINVILLE, CT 860-747-3700			
PRINT DIST.					
6	3/25/03				
ORIG.	FAB.				
JOB:		CL 2 LOCAL BRIDGE NO. 6 RTE. TH 6 OVER THE POULTNEY RIVER RUTLAND COUNTY FAIRHAVEN, VERMONT - HAMPTON, NEW YORK			
CUSTOMER:		AUSTIN CONSTRUCTION, INC.			
DESIGNER:		VERMONT AGENCY OF TRANSPORTATION			
WORK ORDER NO.		15948		DRAWING NO.	20-1
CHECKED	DS/NEC	3/24/03		REV.	
DRAWN	RAB/NEC	3/18/03			

ZONE	REV	DESCRIPTION	DATE	APPROVED



**FIXED BEARING AT ABUTMENT 1
(4-REQ'D)**

SIDE VIEW



NOTES:

- BEARINGS TO BE MANUFACTURED ACCORDING TO AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 16TH EDITION, 1996 WITH CURRENT INTERIMS (1997 & 1998, SECTION #14.)
- THE BEARINGS ARE DESIGNED SO THAT THE SUPERSTRUCTURE MAY BE ERECTED WHEN THE AMBIENT AIR TEMPERATURE IS WITHIN THE RANGE OF 40 DEG. F. TO 90 DEG. F.
- ALL STEEL PRODUCED IN THE U.S.A.
- CONTACT PETER SOMOGYI, COORDINATOR.
- TOLERANCES: THICKNESS -0+1/8
PLAN -0+1/8
- MANUFACTURING FACILITY LOCATION:
AMSCOT STRUCTURAL PRODUCTS INC.
241 EAST BLACKWELL STREET
DOVER, NJ 07801
- ALL DIMENSIONS ARE IN MILLIMETERS.
- ALL ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED.
- ALL STEEL SHALL BE GALVANIZED OR METALIZED AS PER SUBSECTION 531.04(b) AND 506.15 OF THE GENERAL SPECIAL PROVISIONS.
- ALL STEEL IN BEARING DEVICE TO BE AASHTO M-270 GR. 345.
- PRIOR TO GALVANIZING OR METALIZING, ALL CORNERS AND EDGES OF STEEL PLATES, SHAPES, ETC., SHALL BE GROUND TO A 1/16 INCH RADIUS (TYP)
- A MINIMUM THICKNESS OF SIX MILS SHALL BE APPLIED TO METALIZED SURFACES (TYP)
- EXTERIOR SURFACES SHALL BE SEALED WITH AN APPROVED SEALANT CONFORMING TO THE RECOMMENDATIONS OF THE THERMAL SPRAY SUPPLIER

RECEIVED
OK'D BY: *AP* OK'D BY: *Can*
APR 07 2003
RESUBMIT: *As noted*
BY GSR DATE 4/17/03

VERMONT AGENCY OF TRANSPORTATION
NY BRO 1443 (32)
FAIRHAVEN-HAMPTON
COUNTY OF RUTLAND, VT.

FIXED BEARING AT ABUTMENT 1

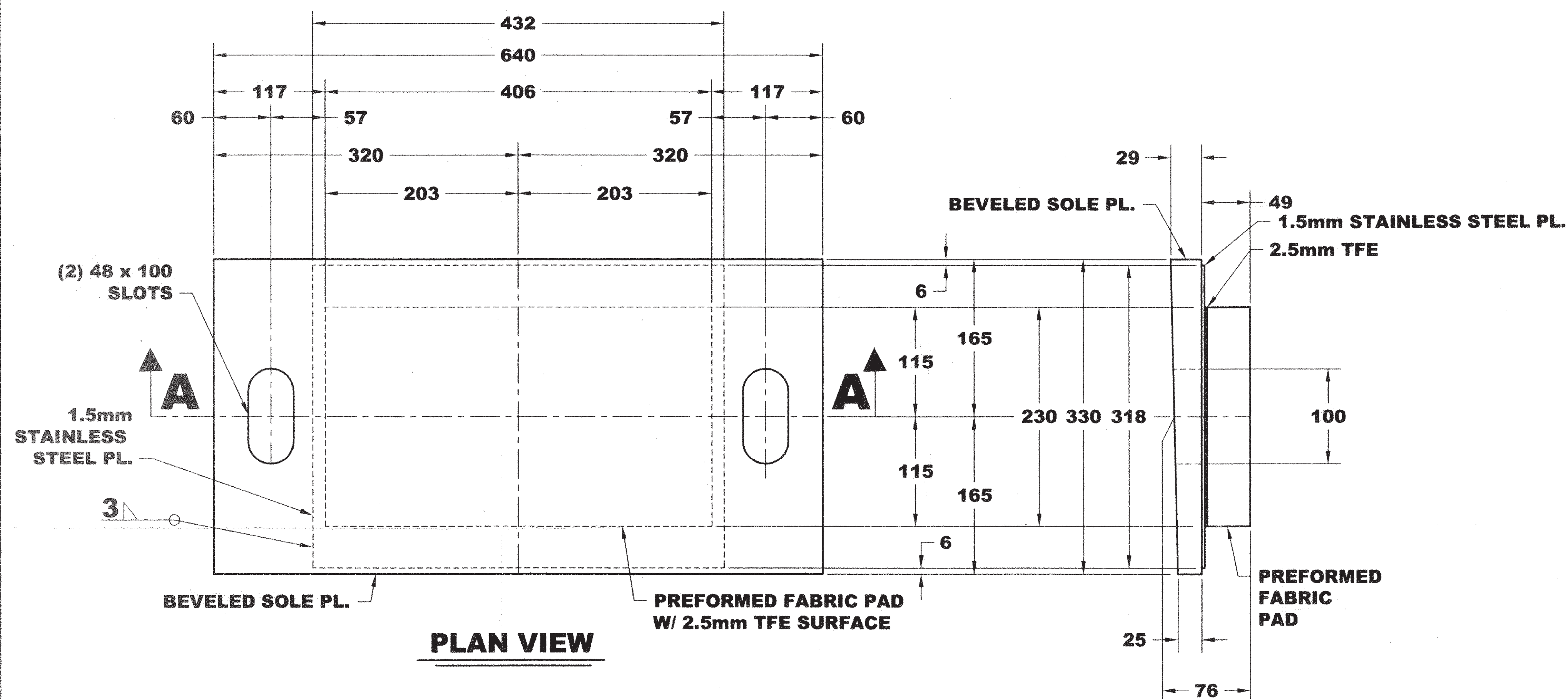
AMSCOT
STRUCTURAL PRODUCTS CORP.

SCALE: N.T.S.	APPR'D:	DRAWN BY: E.J.G.
DATE: 3/11/03		REV.: 0

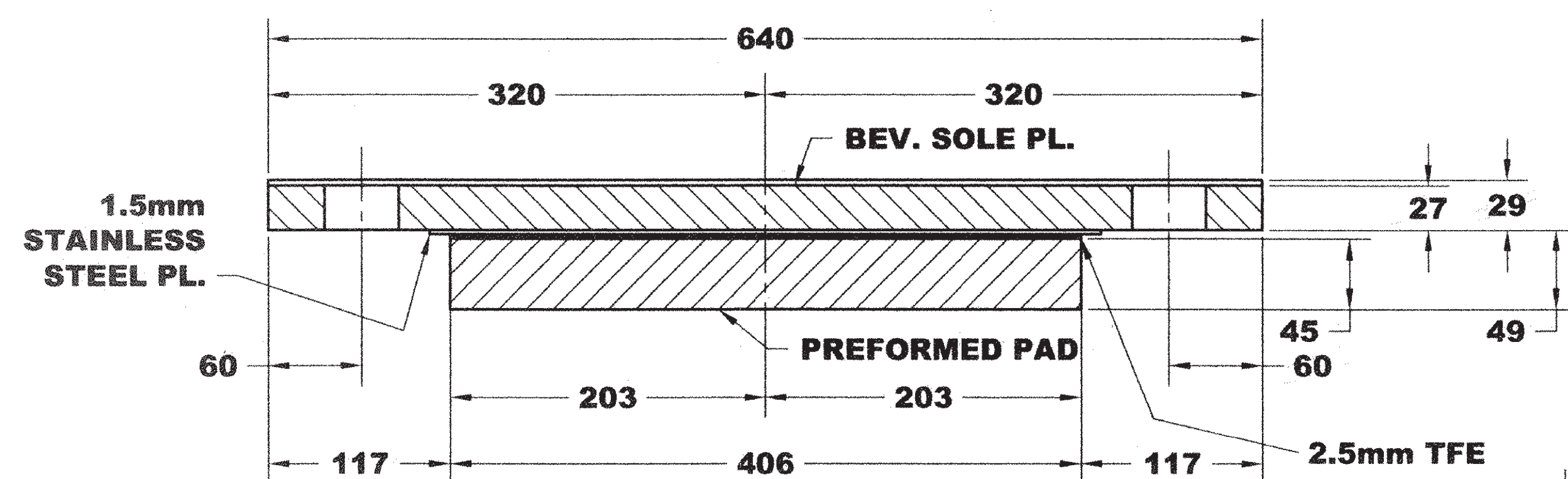
AUSTIN CONSTRUCTION INC.

P.O. #03-01-1443	SHEET NO. 1 of 2	DWG NO: AC03A1R0
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ZONE	REV	DESCRIPTION	DATE	APPROVED



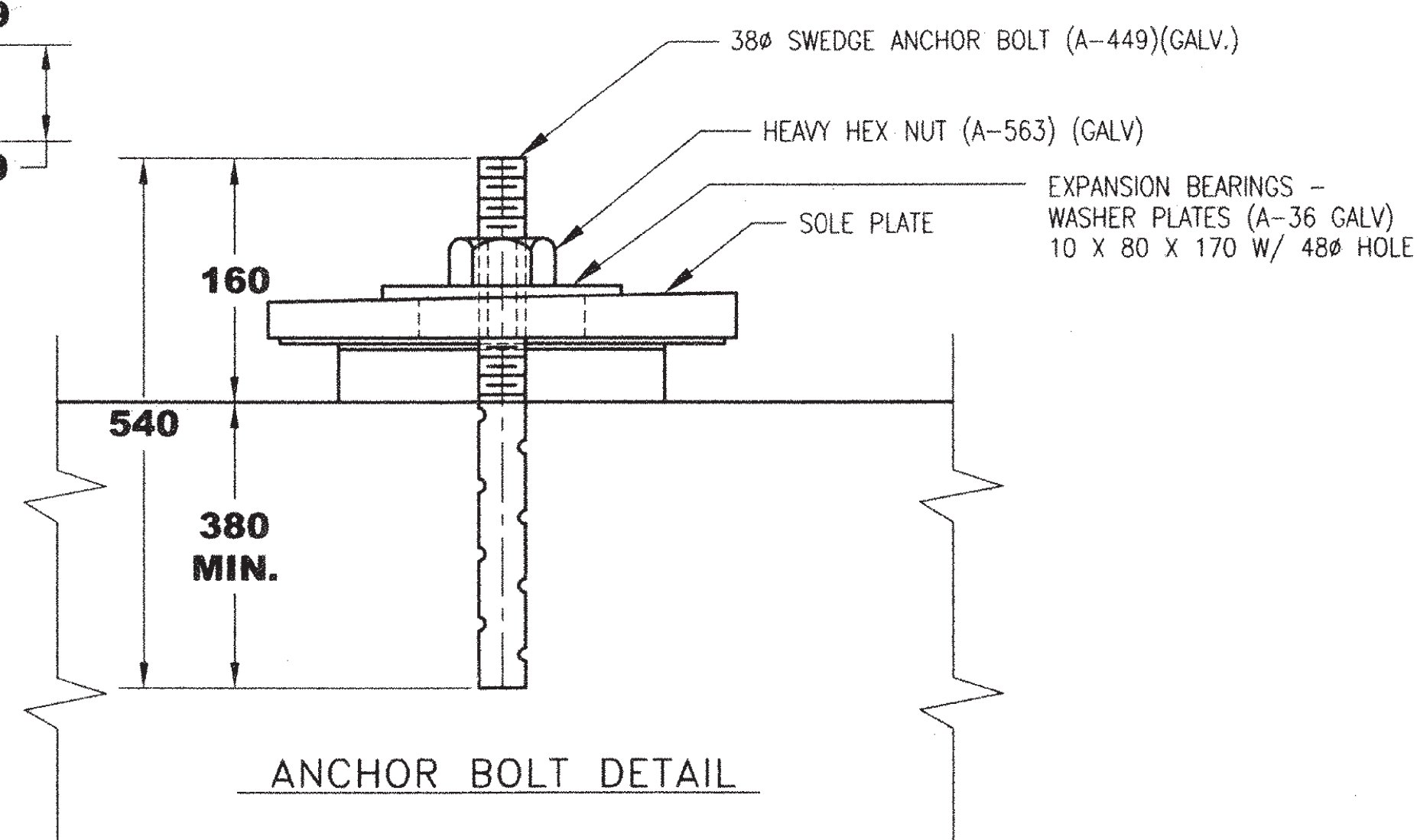
PLAN VIEW



SECTION A-A

**EXPANSION BEARING AT ABUTMENT 2
(4-REQ'D)**

SIDE VIEW



ANCHOR BOLT DETAIL

NOTES:

- BEARINGS TO BE MANUFACTURED ACCORDING TO AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 16th EDITION, 1996 WITH CURRENT INTERIMS (1997 & 1998, SECTION #14.)
- THE BEARINGS ARE DESIGNED SO THAT THE SUPERSTRUCTURE MAY BE ERECTED WHEN THE AMBIENT AIR TEMPERATURE IS WITHIN THE RANGE OF 40 DEG. F. TO 90 DEG. F.
- ALL STEEL PRODUCED IN THE U.S.A.
- CONTACT PETER SOMOGYI, COORDINATOR.
- TOLERANCES: THICKNESS -0+1/8
PLAN -0+1/8
- MANUFACTURING FACILITY LOCATION:
AMSCOT STRUCTURAL PRODUCTS INC.
241 EAST BLACKWELL STREET
DOVER, NJ 07801
- ALL DIMENSIONS ARE IN MILLIMETERS.
- ALL ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED.
- ALL STEEL SHALL BE GALVANIZED OR METALIZED AS PER SUBSECTION 531.04(b) AND 508.15 OF THE GENERAL SPECIAL PROVISIONS EXCEPT STAINLESS STEEL.
- ALL STEEL IN BEARING DEVICE TO BE AASHTO M-270 GR. 345.
- STAINLESS STEEL IN BEARING DEVICE TO BE TYPE 304. THE SURFACE FINISH OF THE CONTACT (SLIDING) FACE OF THE STAINLESS STEEL SHALL HAVE A MIRROR FINISH OF LESS THAN 0.25 μm (10 MICROINCHES) RMS (ROOT MEAN SQUARED)

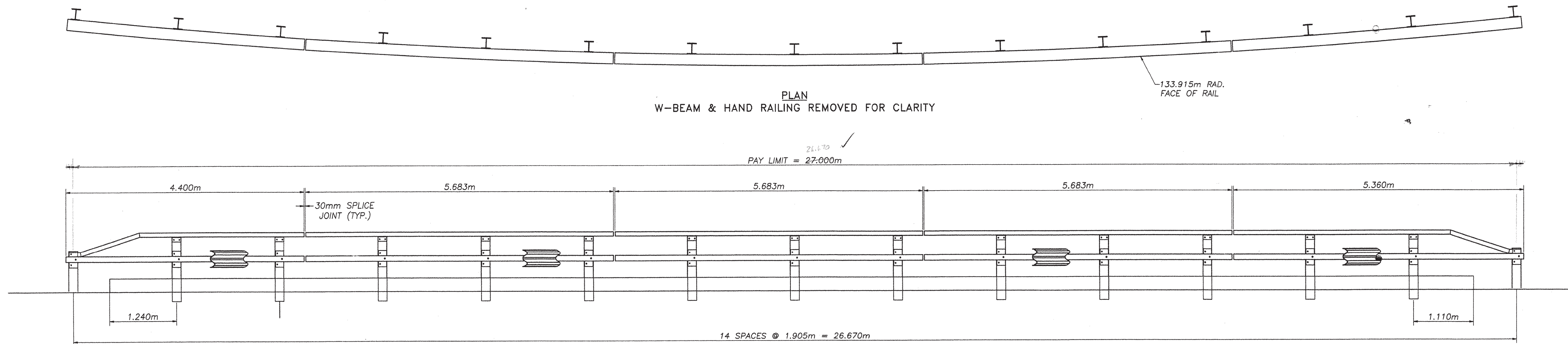
RECEIVED
OK'D BY: *PKP* OK'D BY: *DL*
APR 07 2003
RESUBMIT: _____ APPROVED: *AS NOTED*
BY: *GSR* DATE: *4/17/03*

VERMONT AGENCY OF TRANSPORTATION
NY BRO 1443 (32)
FAIRHAVEN-HAMPTON
COUNTY OF RUTLAND, VT.

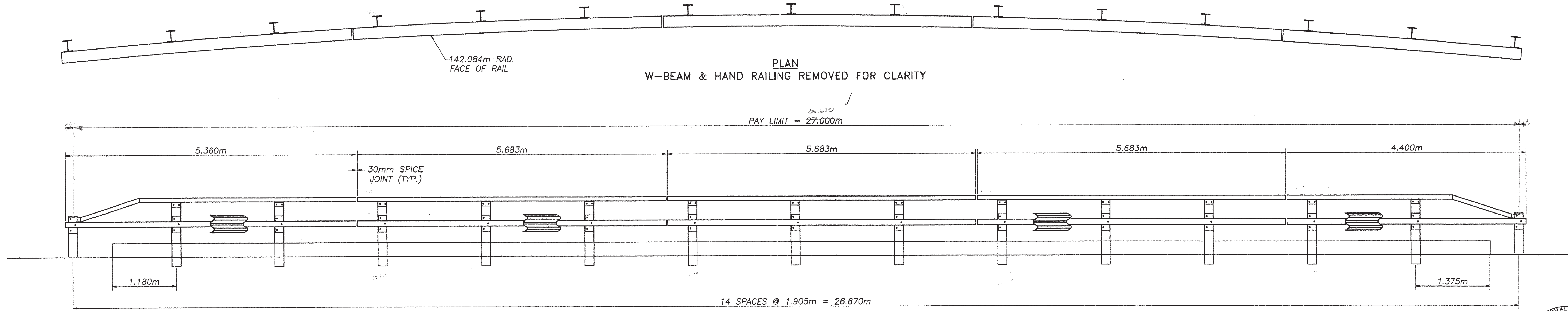
EXPANSION BEARING AT ABUTMENT 2

AMSCOT
STRUCTURAL PRODUCTS CORP.

SCALE: N.T.S.	APPR'D:	DRAWN BY: EJC
DATE: 3/11/03		REV: 0
AUSTIN CONSTRUCTION INC.		
P.O. #03-01-1443	SHEET NO. 2 of 2	DWG NO: AC03A2R0



ELEVATION - NORTH BRIDGE RAIL
FACING (N) FROM ϕ OF ROADWAY
PORTIONS OF W-BEAM REMOVED FOR CLARITY



ELEVATION - SOUTH BRIDGE RAIL
FACING (S) FROM ϕ OF ROADWAY
PORTIONS OF W-BEAM REMOVED FOR CLARITY

1.905
57.15
5.360
353
1.480
2.450 OK

1.905
11.48
10.743
487

53.340 ✓
TOTAL PAY LIMIT FOR ITEM 525.44 = 54.000m

REVISIONS		
No.	Remarks	Date
0	Initial submittal	4/30/03

RECEIVED
CHK'D BY PKT OK'D BY GSR
MAY 07 2003
RESUBMIT _____ APPROVED As Noted
BY GSR DATE 5/16/03

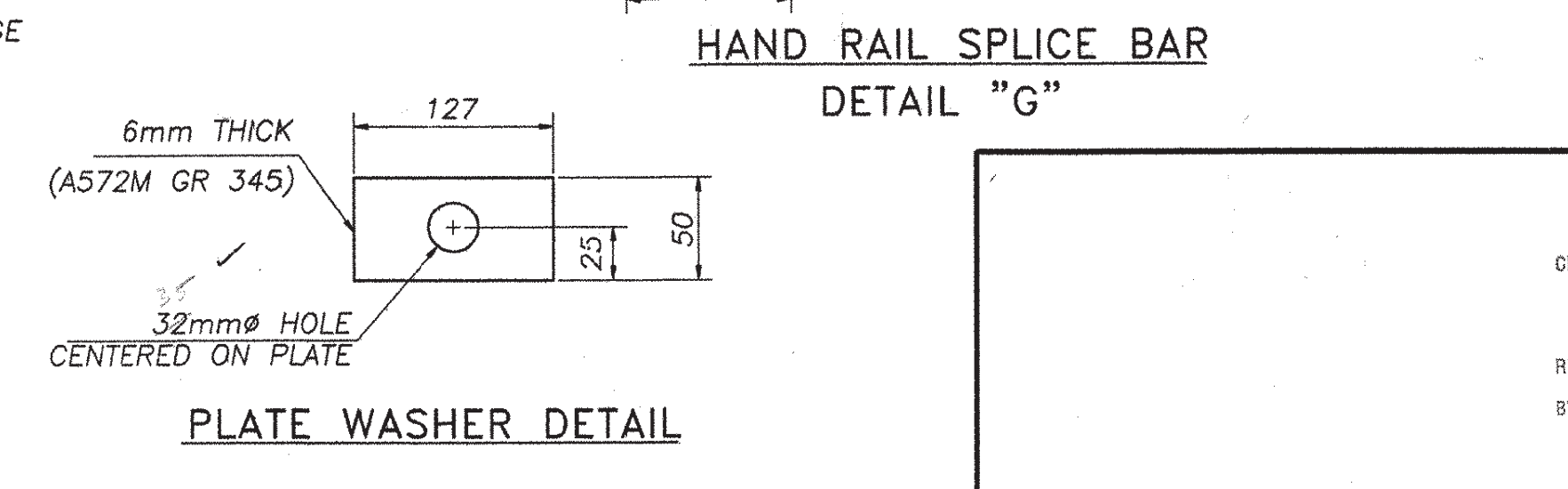
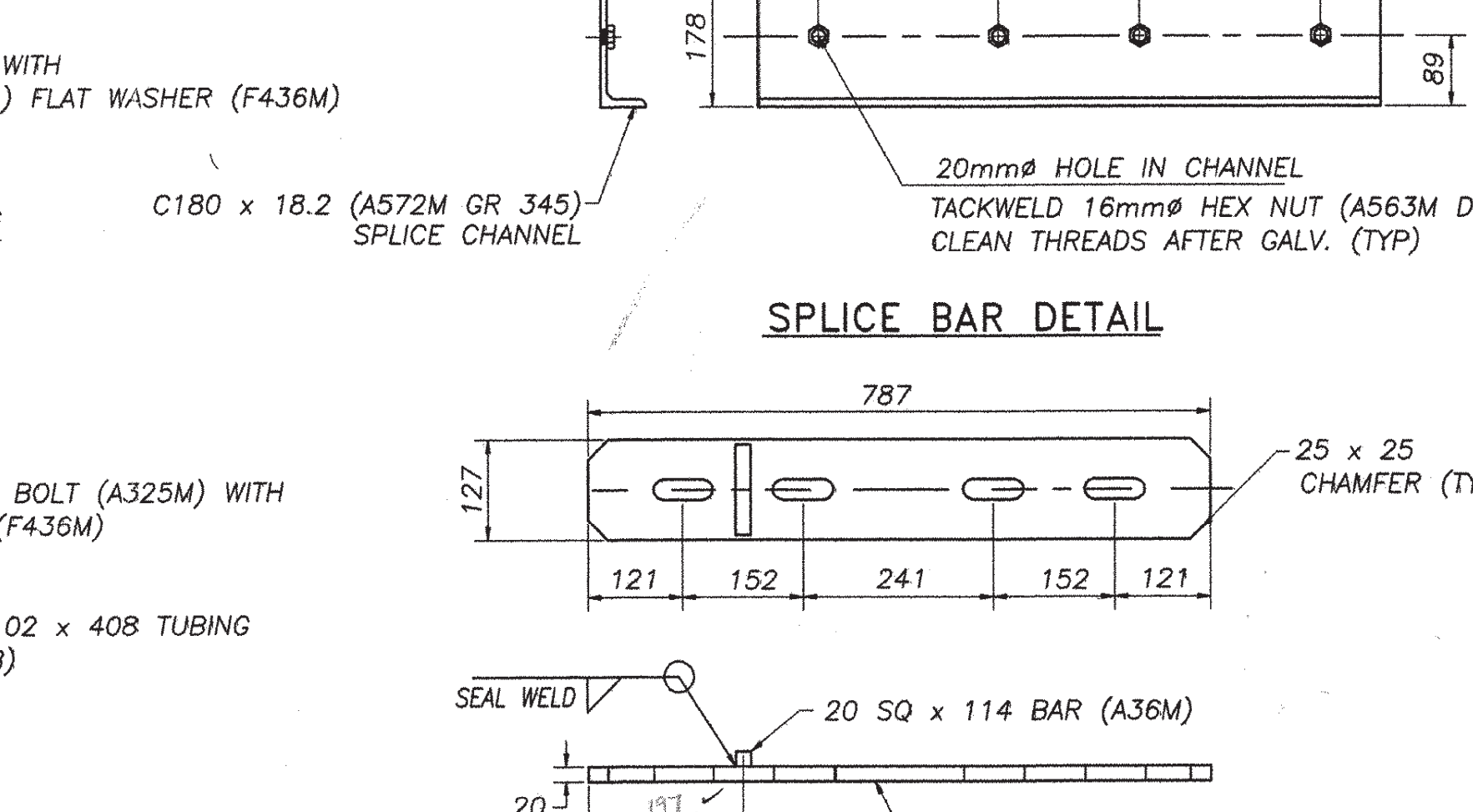
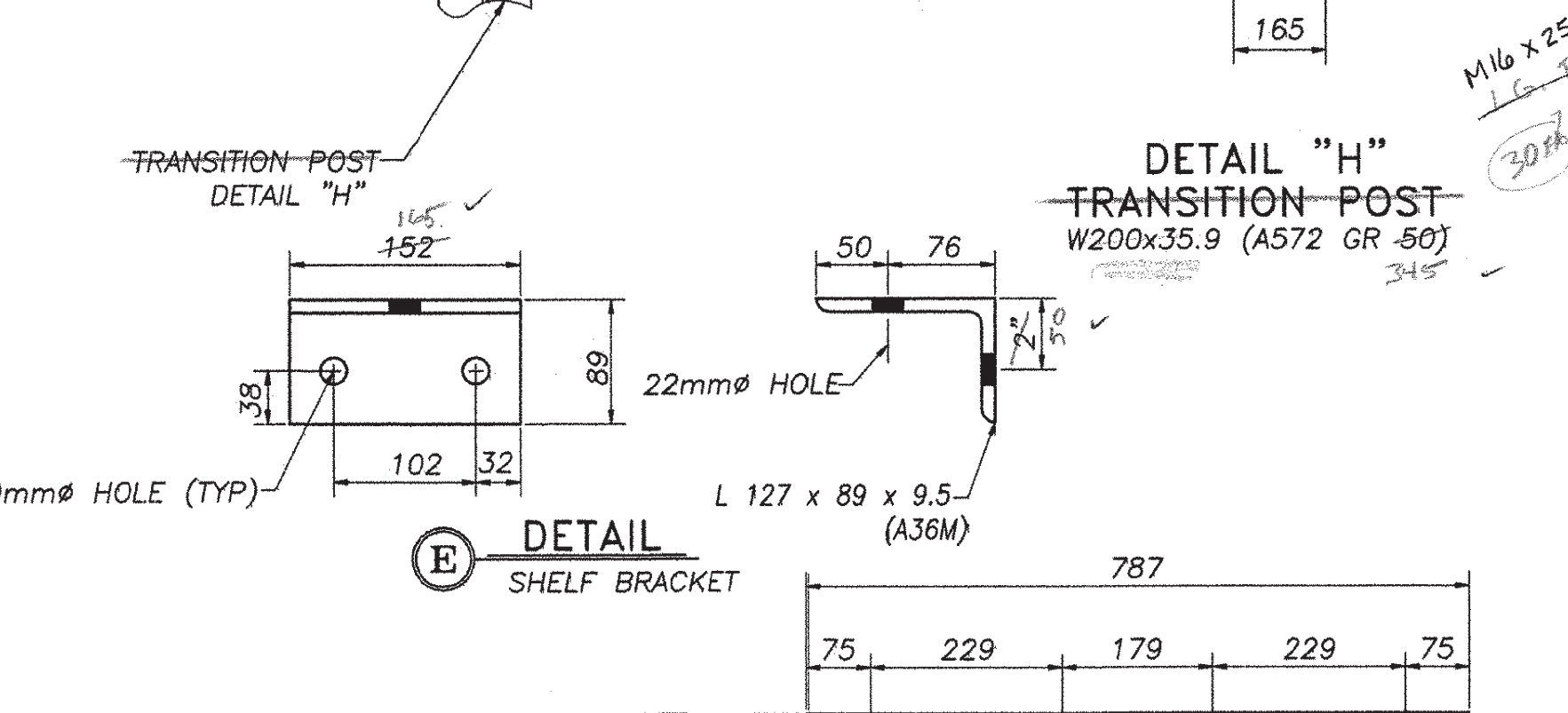
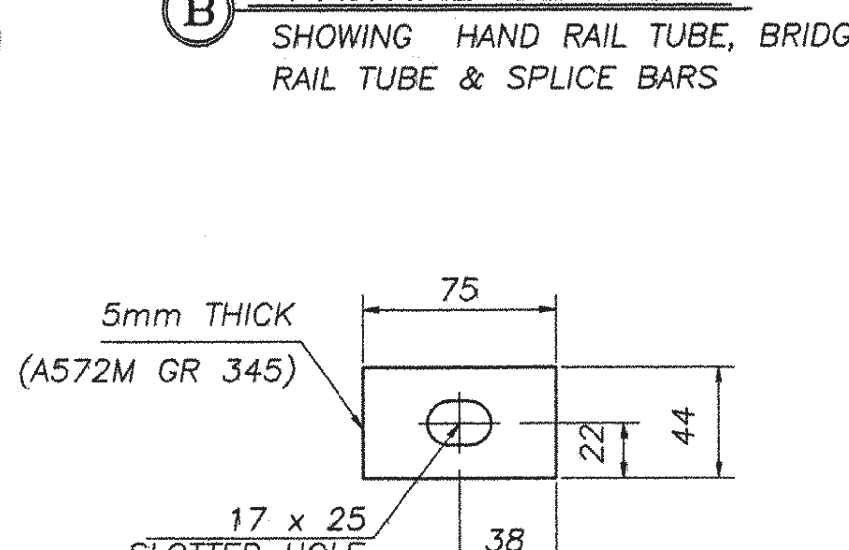
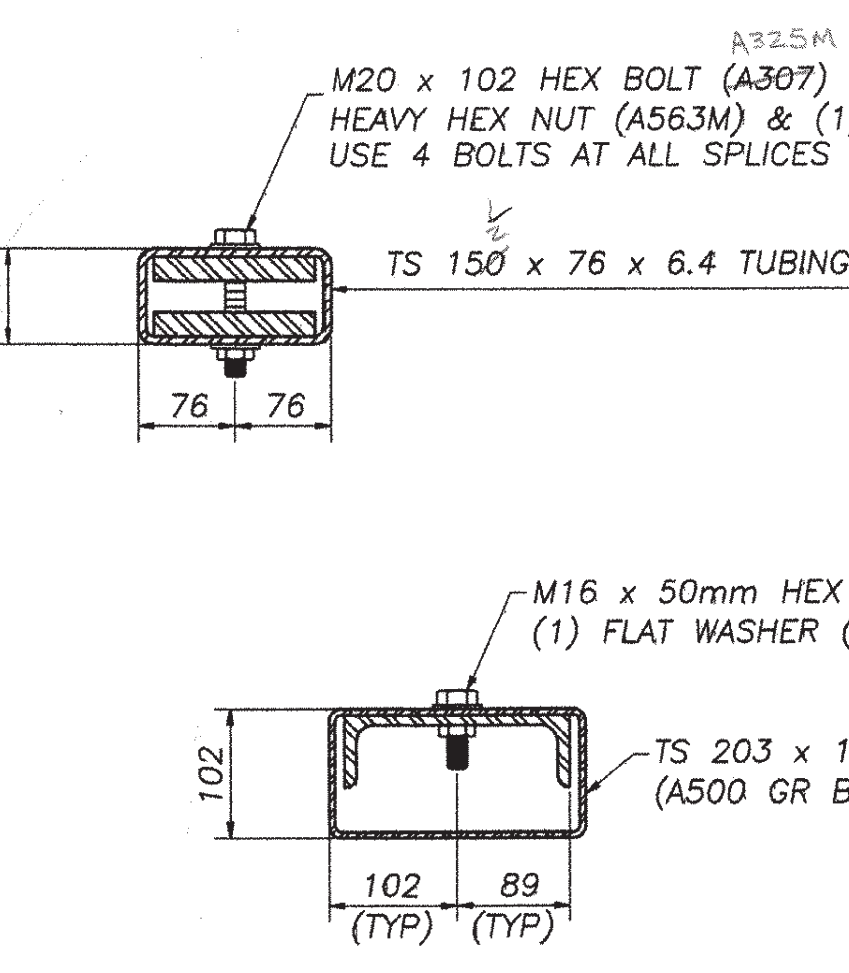
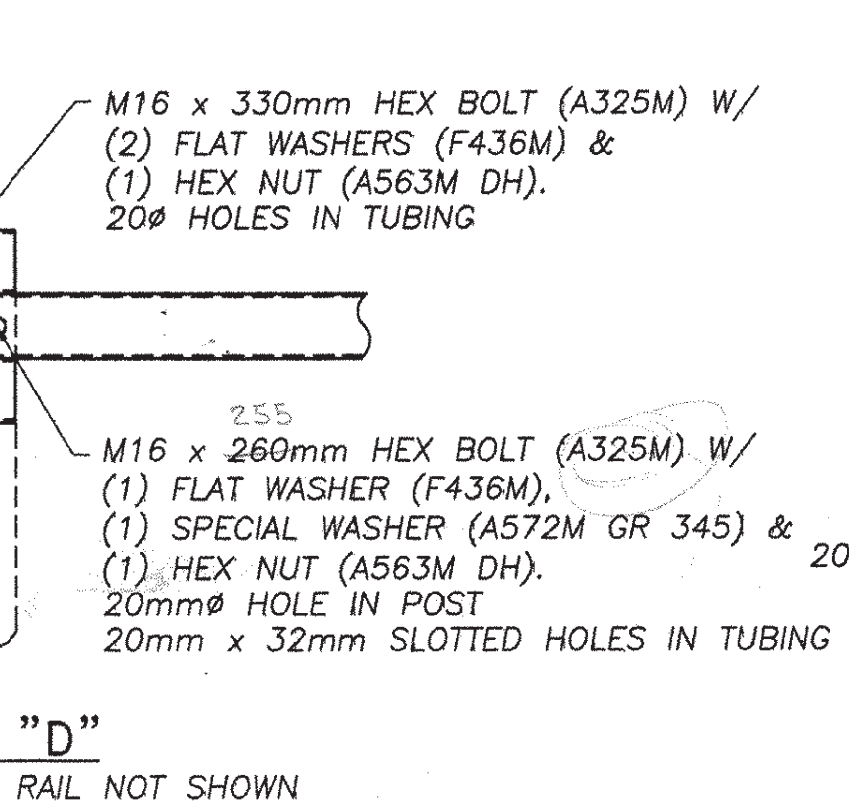
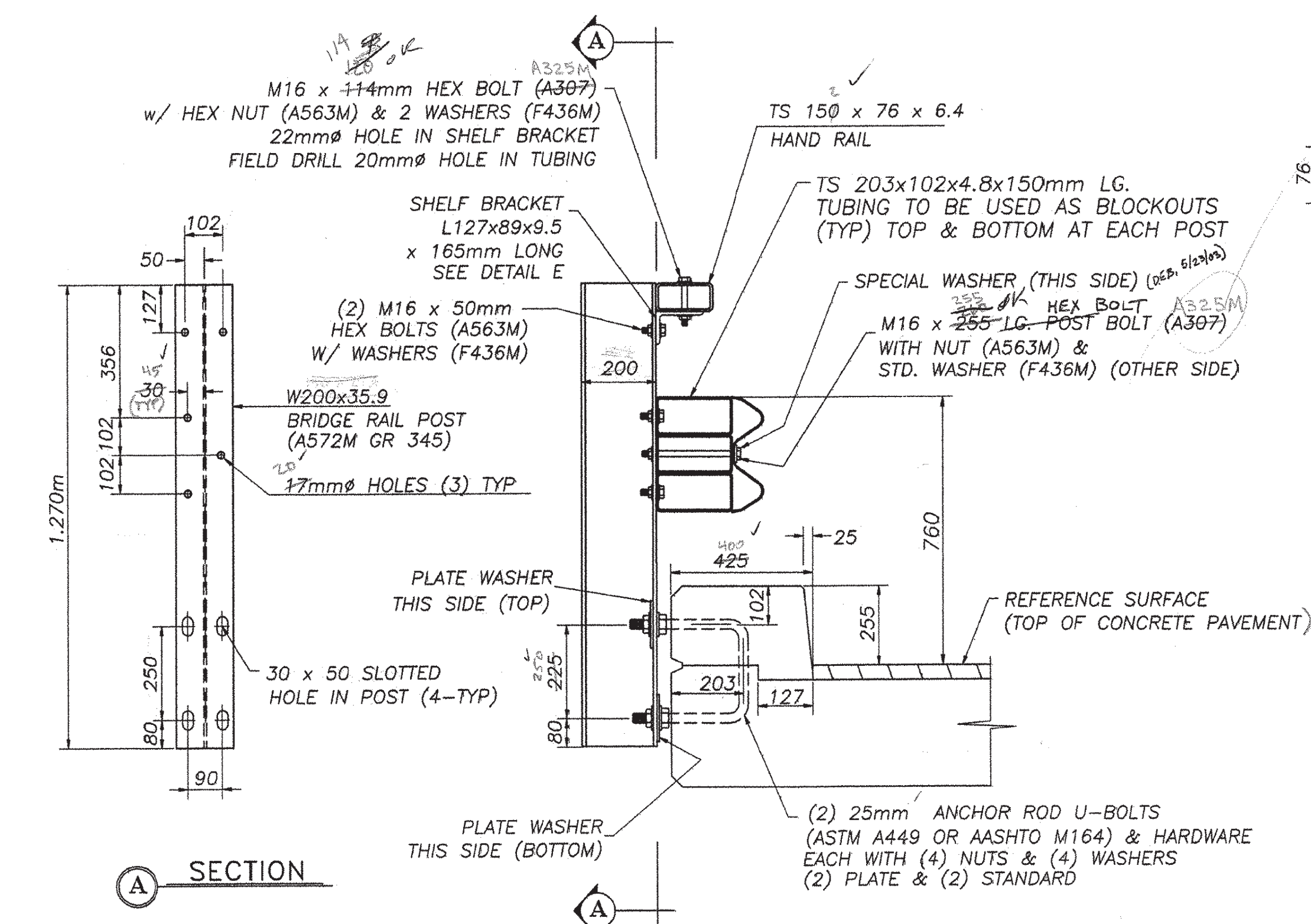
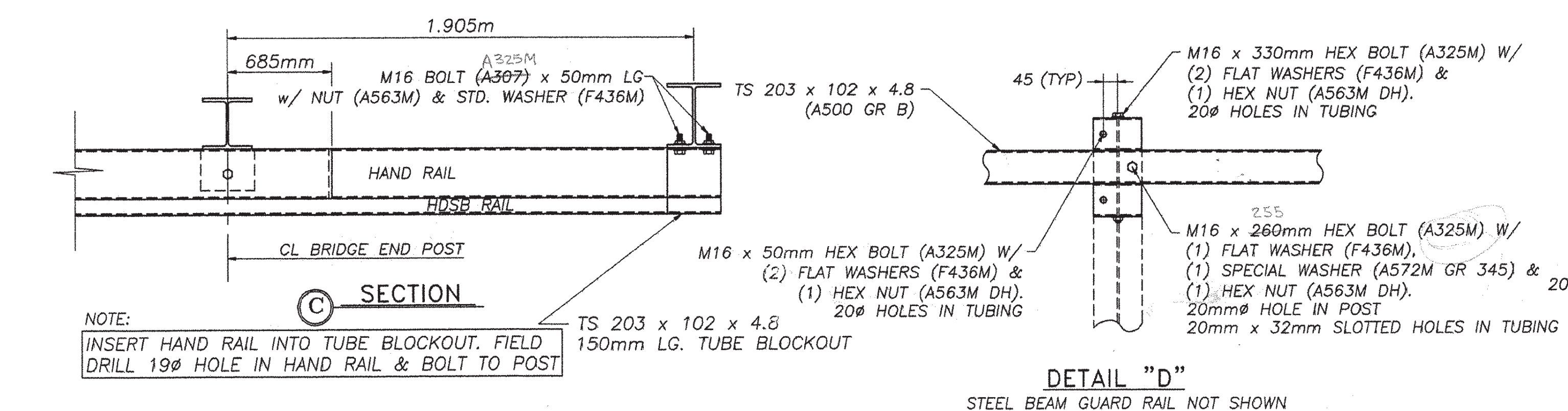
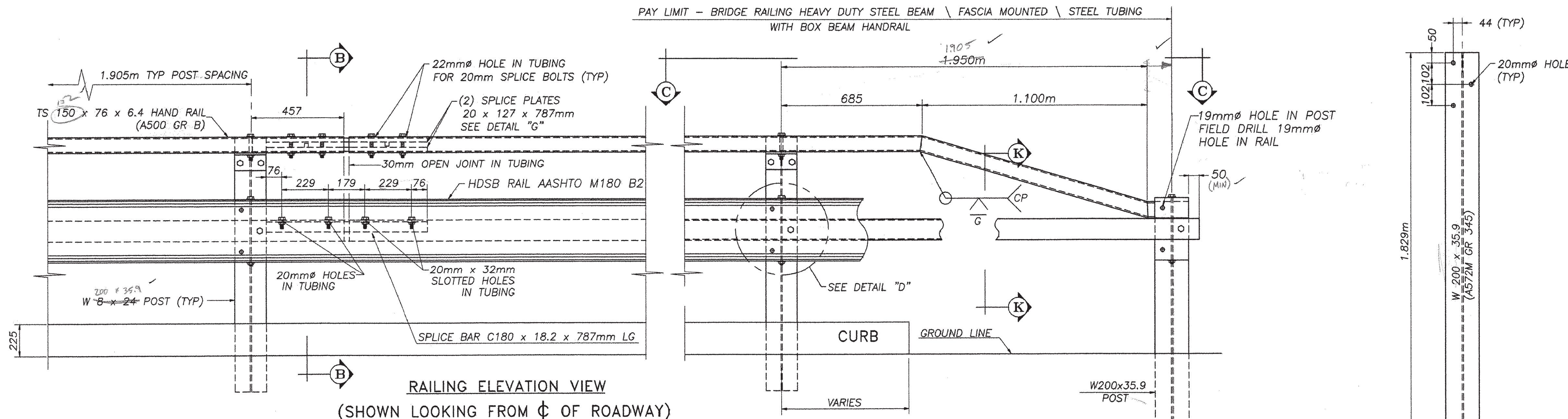
HIGHWAY SAFETY CORP. GLASTONBURY, CT		DRAWN J. Ruiz CHECKED <u>[Signature]</u> DATE 4/25/03 SCALE NONE HSC REFERENCE NO. 1350 SIZE D REVISION 0 SHEET NO. 1 of 2
ITEM 525.44 - FASCIA MTD. TUBING W/HANDRAIL TOWN OF FAIR HAVEN, VT RUTLAND COUNTY, OVER POULTNEY RIVER ROUTE No. TH 6, CL 2 BRIDGE No. 6 PROJECT No. BRO 1443(32)		
GENERAL CONTRACTOR SUB CONTRACTOR F.R. LAFAYETTE		



4.400
3.610
8.525
-590
-117
-475
2.450 OK

10.083
8.525
1.558
-117
-475
2.450 OK

1.905
3
9.525



REVISIONS		
No.	Remarks	Date
0	Initial submittal	4/30/03

BILL OF MATERIAL					
Mk.	Qty.	Description	Size/Shape	Length/Qty.	Material
26	BRIDGE RAIL POST	W200x35.9	1.829m	A572m Gr. 345	
4	TRANSITION POST	W200x35.9	1.829m	A572m Gr. 345	
1	HAND RAIL (DROP END) W/133.915m RAD	TS150x76x6.4	3.048m	A500 Gr. B	
	horizontal tube	TS150x76x6.4	1.144m	A500 Gr. B	
	drop tube	TS150x76x6.4	1.144m	A500 Gr. B	
	end tube	TS150x76x6.4	219mm	A500 Gr. B	
1	HAND RAIL (DROP END) W/142.084m RAD	TS150x76x6.4	3.048m	A500 Gr. B	
	horizontal tube	TS150x76x6.4	1.144m	A500 Gr. B	
	drop tube	TS150x76x6.4	1.144m	A500 Gr. B	
	end tube	TS150x76x6.4	219mm	A500 Gr. B	
1	HAND RAIL (DROP END) W/133.915m RAD	TS150x76x6.4	4.007m	A500 Gr. B	
	horizontal tube	TS150x76x6.4	1.144m	A500 Gr. B	
	drop tube	TS150x76x6.4	1.144m	A500 Gr. B	
	end tube	TS150x76x6.4	219mm	A500 Gr. B	
1	HAND RAIL (DROP END) W/142.084m RAD	TS150x76x6.4	4.007m	A500 Gr. B	
	horizontal tube	TS150x76x6.4	1.144m	A500 Gr. B	
	drop tube	TS150x76x6.4	1.144m	A500 Gr. B	
	end tube	TS150x76x6.4	219mm	A500 Gr. B	
3	HAND RAIL TUBE W/133.915m RAD	TS150x76x6.4	5.683m	A500 Gr. B	
3	HAND RAIL TUBE W/142.084m RAD	TS150x76x6.4	5.683m	A500 Gr. B	
3	BRIDGE RAIL TUBE W/133.915m RAD	TS203x102x4.8	5.683m	A500 Gr. B	
3	BRIDGE RAIL TUBE W/142.084m RAD	TS203x102x4.8	5.683m	A500 Gr. B	
1	BRIDGE RAIL TUBE W/133.915m RAD	TS203x102x4.8	5.360m	A500 Gr. B	
1	BRIDGE RAIL TUBE W/142.084m RAD	TS203x102x4.8	5.360m	A500 Gr. B	
1	BRIDGE RAIL TUBE W/133.915m RAD	TS203x102x4.8	4.400m	A500 Gr. B	
1	BRIDGE RAIL TUBE W/142.084m RAD	TS203x102x4.8	4.400m	A500 Gr. B	
60	TUBE BLOCKOUT	TS203x102x4.8	150mm	A500 Gr. B	
26	SHELF BRACKET	L127x89x9.5	165mm	A36M	
16	HAND RAIL SPLICE BAR	C180x18.2	787mm	A572m Gr. 345	
	flat bar	20 x 127mm	787mm	A572m Gr. 345	
	square bar	20 x 20mm	787mm	A36M	
8	BRIDGE RAIL SPLICE	C180x18.2	787mm	A572m Gr. 345	
30	HEX BOLT	M16	330mm	A325M	
26	HEX BOLT	M16	114mm	A325M/A307	
144	HEX BOLT	M16	50mm	A325M	
32	HEX BOLT	M20	102mm	A325M/A307	
200	HEX NUT	M16	-	A563 Gr. DH	
290	PLAIN WASHER	M16	-	F436M	
30	SPECIAL WASHER	5 x 44mm	75mm	A572m Gr. 345	
32	HEAVY HEX NUT	M20	-	A563M	
32	PLAIN WASHER	M20	-	F436M	
*	52 ANCHOR ROD U-BOLT	M24	-	A449	
*	208 HEX NUT	M24	-	A563M	
*	104 PLAIN WASHER	M24	-	F436M	
*	104 PLATE WASHER	6 x 50mm	127mm	A572m Gr. 345	
14	W-BEAM PANEL	10 Ga.	12'-6"	M180 B2	

- NOTES:**
- HEAVY DUTY STEEL BEAM GUARD RAIL SHALL CONFORM TO VT. SPECIFICATION 732. AASHTO M180 B2.
 - STRUCTURAL STEEL TUBING SHALL CONFORM TO VT. SPECIFICATION 732. ASTM A500 Gr. B.
 - ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 AND SHALL CONFORM TO VT. SPECIFICATION 714 UNLESS OTHERWISE NOTED.
 - BRIDGE RAIL POSTS, SPECIAL WASHERS, SPLICE BARS AND PLATE WASHERS SHALL CONFORM TO AASHTO M223/M223M AND SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M111. PRIOR TO GALVANIZING ALL CORNERS AND EDGES OF STEEL PLATES, SHAPES, ETC. SHALL BE GROUND TO A 2mm RAD.
 - SEE STANDARD DRAWING G-1 AND G-1D FOR ADDITIONAL DETAILS CONCERNING GUARD RAIL.
 - SEE STANDARD DRAWING SB-R6-82 FOR APPROACH RAIL DETAILS AND FOR INFORMATION RELATIVE TO SCHEDULE 1 AND SCHEDULE 2. ALL APPROACH RAIL SHALL BE HEAVY DUTY STEEL BEAM GUARD RAIL. ALSO SEE STD. DWG. SB-R6-82 FOR HANDRAIL DETAIL.
 - ALL POSTS SHALL BE SET NORMAL TO GRADE.
 - SPLICES FOR THE STEEL BEAM GUARD RAIL SHALL LAP IN THE DIRECTION OF TRAFFIC.
 - SEE STANDARD DRAWING G-1 FOR DETAILS OF DELINEATORS. A DELINEATOR SHALL BE LOCATED AT EVERY FIFTH POST. PAYMENT SHALL BE SUBSIDIARY TO OTHER ITEMS.
 - A RAILING JOINT SPLICE SHALL BE PROVIDED AT EACH SUPERSTRUCTURE EXPANSION JOINT.
 - ALL FIELD CUT OR DRILLED AREAS SHALL BE COATED WITH ZINC RICH PAINT.
 - FOR RADII LESS THAN 289.560m, THE TUBING SHALL BE SHOP BENT TO FIT THE APPLICABLE CURVE.
 - THE DROP-WEIGHT TEAR TEST IN SECTION 732 SHALL NOT APPLY TO THE STRUCTURAL TUBING ON THIS STANDARD.
 - ALL BOLTS AND RELATED HARDWARE SHALL CONFORM TO AASHTO M164 TYPE 1 BOLTS, HOT DIPPED OR MECHANICALLY GALVANIZED PER SPECIFICATION.

HIGHWAY SAFETY CORP.		GLASTONBURY, CT	
ITEM 525.44 - FASCIA MTD. TUBING W/HANDRAIL		DRAWN J. Ruiz	
TOWN OF FAIR HAVEN, VT		CHECKED <i>[Signature]</i>	
RUTLAND COUNTY, OVER POULTNEY RIVER		DATE 2/25/03	
ROUTE No. TH 6, CL 2 BRIDGE No. 6		SCALE NONE	
PROJECT No. BRO 1443(32)		HSC REFERENCE NO. 1350	
GENERAL CONTRACTOR		SIZE D REVISION 0	
SUB CONTRACTOR F.R. LAFAYETTE		SHEET NO. 2 of 2	