

SEE SHEET 2 INDEX OF SHEETS

STATE OF VERMONT AGENCY OF TRANSPORTATION



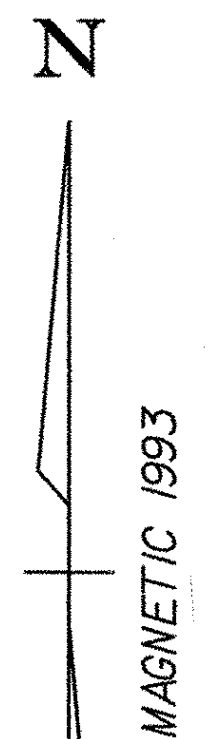
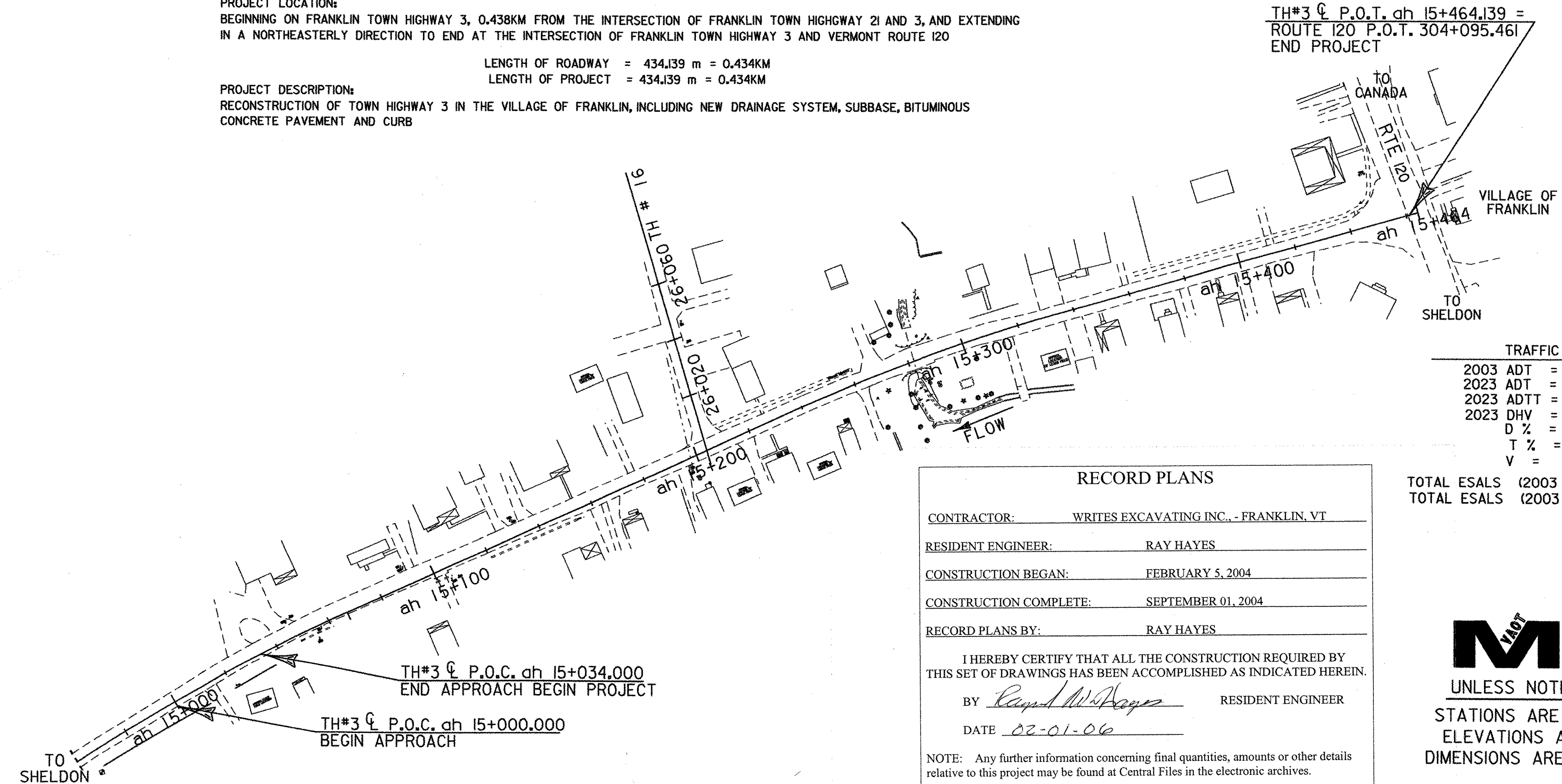
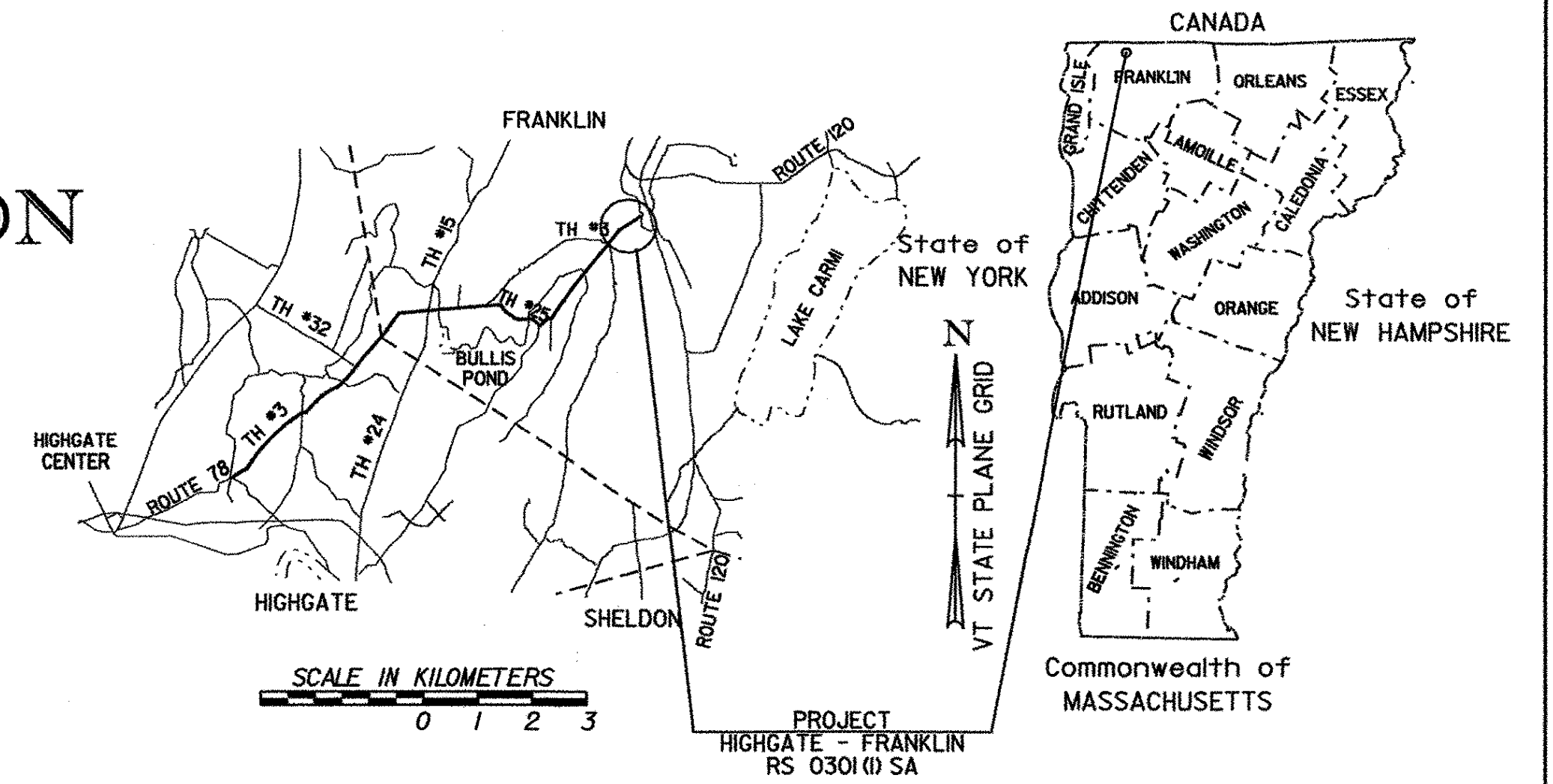
PROPOSED IMPROVEMENT TOWN OF FRANKLIN COUNTY OF FRANKLIN

TOWN HIGHWAY NO. 3, CLASS 2 (MAJOR COLLECTOR)

PROJECT LOCATION:
BEGINNING ON FRANKLIN TOWN HIGHWAY 3, 0.438KM FROM THE INTERSECTION OF FRANKLIN TOWN HIGHWAY 21 AND 3, AND EXTENDING IN A NORTHEASTERLY DIRECTION TO END AT THE INTERSECTION OF FRANKLIN TOWN HIGHWAY 3 AND VERMONT ROUTE 120

LENGTH OF ROADWAY = 434.139 m = 0.434KM
LENGTH OF PROJECT = 434.139 m = 0.434KM

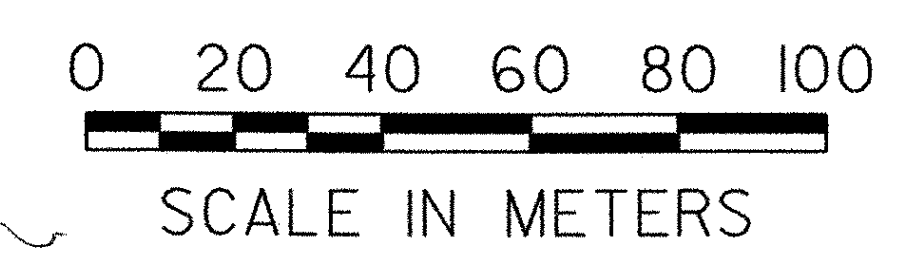
PROJECT DESCRIPTION:
RECONSTRUCTION OF TOWN HIGHWAY 3 IN THE VILLAGE OF FRANKLIN, INCLUDING NEW DRAINAGE SYSTEM, SUBBASE, BITUMINOUS CONCRETE PAVEMENT AND CURB



TRAFFIC DATA	
2003 ADT	= 300
2023 ADT	= 400
2023 ADTT	= 30
2023 DHV	= 105
D %	= 59
T %	= 5
V	= 50 KPH
TOTAL ESALS (2003 ~ 2023)	= 80,000
TOTAL ESALS (2003 ~ 2043)	= 209,000

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 :	
SURVEYED DATE :	
DATUM	NGVD 1929
VERTICAL	N/A
HORIZONTAL	N/A



RECORD PLANS

CONTRACTOR: WRITES EXCAVATING INC., - FRANKLIN, VT

RESIDENT ENGINEER: RAY HAYES

CONSTRUCTION BEGAN: FEBRUARY 5, 2004

CONSTRUCTION COMPLETE: SEPTEMBER 01, 2004

RECORD PLANS BY: RAY HAYES

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

BY *Ray Hayes* RESIDENT ENGINEER
DATE 02-01-06

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.

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

Metric

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

DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED <i>[Signature]</i>	DATE 4/3/03
PROJECT MANAGER : G. DuBrey	
PROJECT NAME :	FRANKLIN
PROJECT NUMBER :	STP 0301 (18)
SHEET 1 OF 60 SHEETS	

SEE SHEET 2 INDEX OF SHEETS

STATE OF VERMONT AGENCY OF TRANSPORTATION



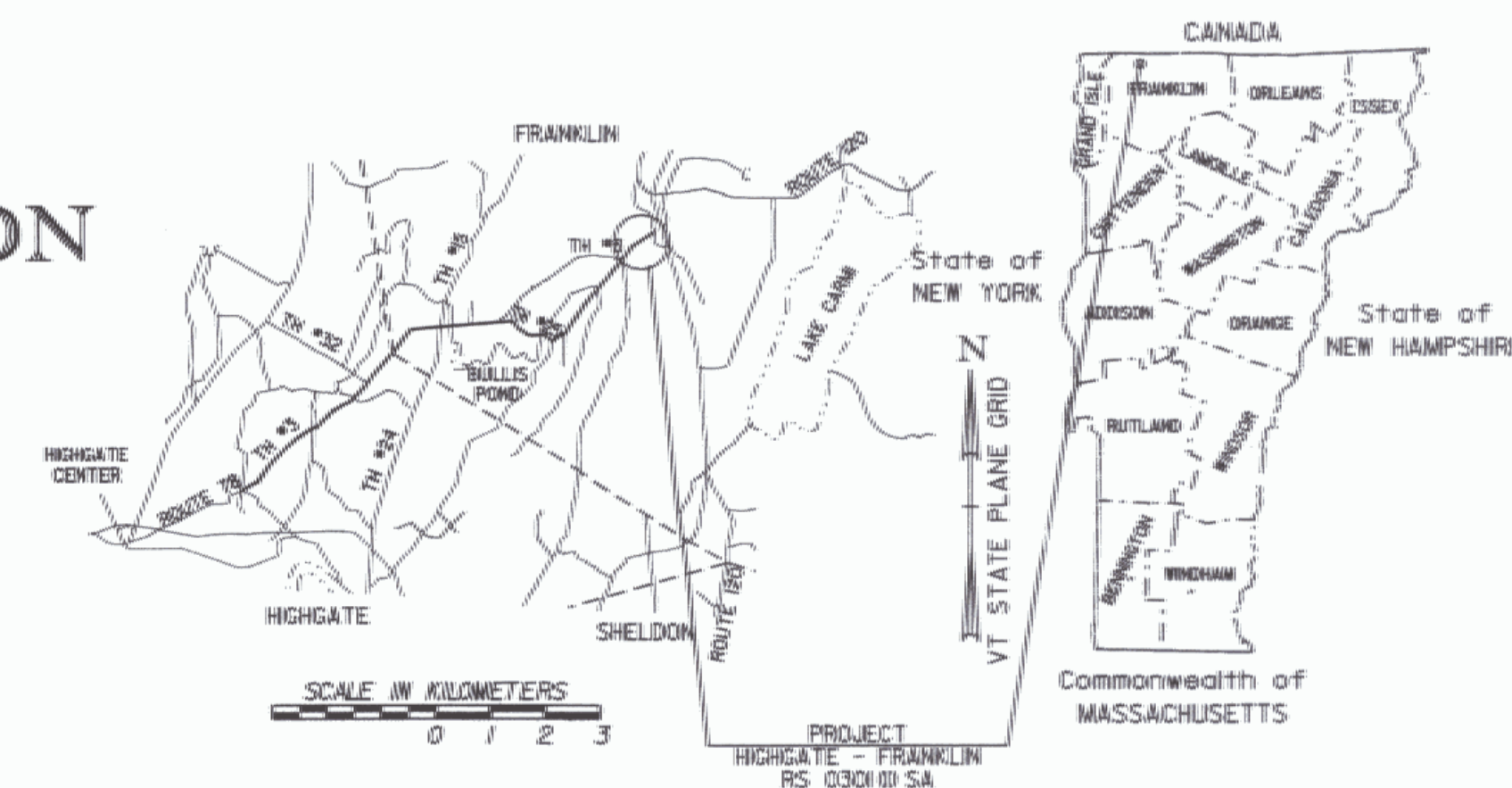
PROPOSED IMPROVEMENT TOWN OF FRANKLIN COUNTY OF FRANKLIN

TOWN HIGHWAY NO. 3, CLASS 2 (MAJOR COLLECTOR)

PROJECT LOCATION:
BEGINNING ON FRANKLIN TOWN HIGHWAY 3, 0.438KM FROM THE INTERSECTION OF FRANKLIN TOWN HIGHWAY 21 AND 3, AND EXTENDING
IN A NORTHEASTERLY DIRECTION TO END AT THE INTERSECTION OF FRANKLIN TOWN HIGHWAY 3 AND VERMONT ROUTE 120

LENGTH OF ROADWAY = 434.39 m = 0.434KM
LENGTH OF PROJECT = 434.39 m = 0.434KM

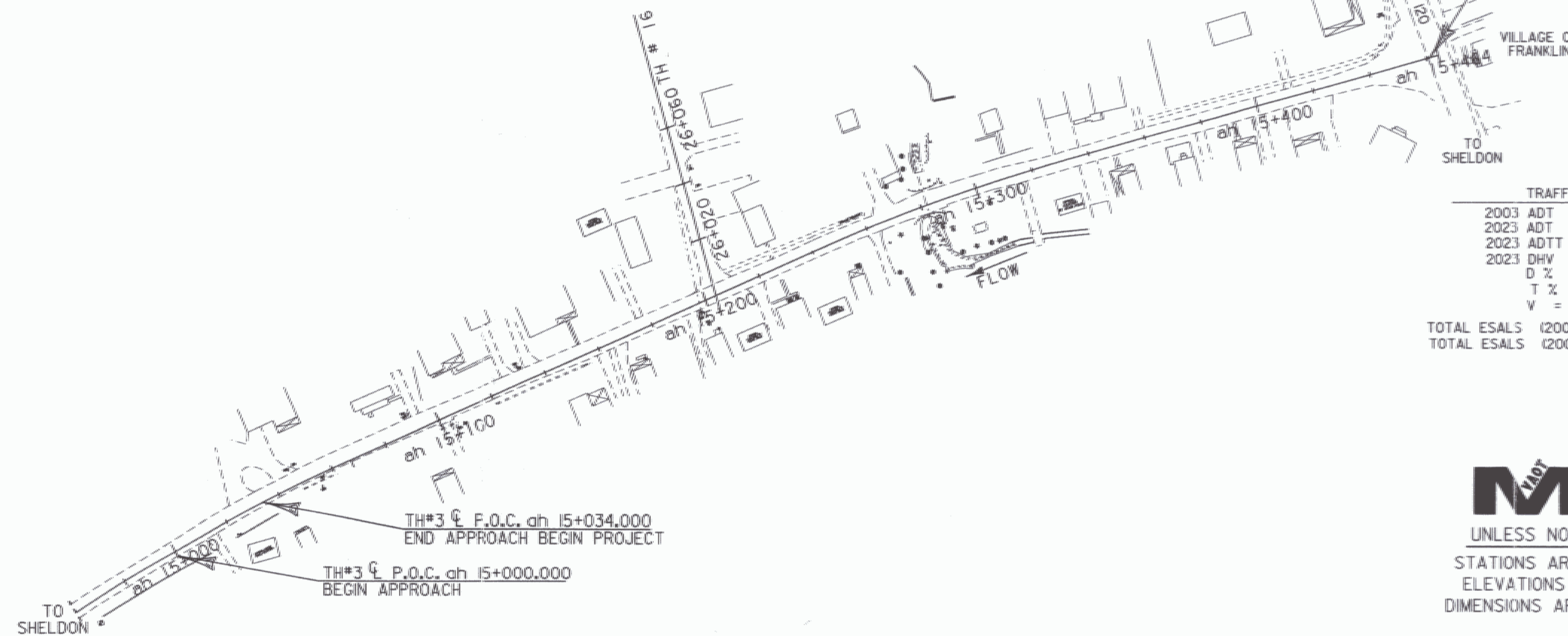
PROJECT DESCRIPTION:
RECONSTRUCTION OF TOWN HIGHWAY 3 IN THE VILLAGE OF FRANKLIN, INCLUDING NEW DRAINAGE SYSTEM, SUBBASE, BITUMINOUS
CONCRETE PAVEMENT AND CURB



Wright's Excavating Inc
Contractor
Mrenda J. Wright
Signature
Sec.
Title

[Signature]
Director of Finance and Administration
or Duly Authorized Agent
August 4, 2003
Date

TH#3 @ P.O.T. ah 15+464.139 =
ROUTE 120 P.O.T. 304+095.461
END PROJECT



TRAFFIC DATA	
2003 ADT	= 300
2023 ADT	= 400
2023 ADTT	= 30
2023 DHV	= 105
D %	= 59
T %	= 5
V	= 50 KPH
TOTAL ESALS (2003 ~ 2023)	= 80,000
TOTAL ESALS (2003 ~ 2043)	= 209,000

CONVENTIONAL SYMBOLS

COUNTY LINE	
TOWN LINE	
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POINT OF ACCESS	
FENCE LINE	
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TRAVELED WAY	
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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 :
SURVEYED DATE :
DATUM
VERTICAL NGVD 1929
HORIZONTAL N/A

0 20 40 60 80 100
SCALE IN METERS

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

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

DIRECTOR OF PROGRAM DEVELOPMENT
APPROVED [Signature] DATE 4/15/02
PROJECT MANAGER : G. DuBroy
PROJECT NAME : FRANKLIN
PROJECT NUMBER : STP 0301(18)
SHEET 1 OF 60 SHEETS

INDEX OF SHEETS



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STANDARDS

A-76M	STANDARDS FOR TOWN & DEVELOPMENT ROADS	6/13/97
B-5M	SLOPE GRADING, EMBANKMENTS, MUCK	1/3/00
B-11M	UNDERDRAIN - ROCK SUBGRADE, SLOPE STABILIZ.	6/13/97
B-12M	SIDE ROAD INTERSECTION, DEPRESSED RAMP	1/3/00
B-71M	RESIDENTIAL AND COMMERCIAL DRIVES	3/1/01
C-1M	CURBS, BITUMINOUS CONCRETE SIDEWALKS GRANITE SLOPE EDGING, VERTICAL GRANITE CURB PRECAST REINFORCED CONCRETE CURB CAST IN PLACE CONCRETE CURB BITUMINOUS CONCRETE CURB, TREATED TIMBER CURB	1/3/00
C-2AM	CEMENT CONCRETE SIDEWALK, CONCRETE CURB	1/3/00
C-3M	SIDEWALK RAMPS	1/3/00
D-2M	C. R. M. HEADWALLS, UNDERDRAIN C. R. M. HEADWALLS & RETAINING WALLS RIPRAP LIGHT TYPE SLOPE HEADWALL REINFORCED CONCRETE HEADWALL, UNDERDRAIN & CARRIER PIPE CONSTRUCTION DETAILS	6/13/97
D-4M	FLUSHING BASINS, END SECTION, ELBOWS TYPICAL WATERFALL FOR CULVERTS UP TO AND INCLUDING 48' DIA EXTENSION SERVICE BOX AND CURB STOP CORRUGATED PIPE ELBOW GRANULAR BORROW AT CULVERT LOCATIONS UNDERDRAIN FLUSHING BASIN CORRUGATED STEEL PIPE END SECTION CORRUGATED STEEL PIPE ARCH END SECTION	6/13/97
D-9M	REINFORCED CONCRETE DROP INLET TOPS VERTICAL CURB & THROAT ADAPTER	6/13/97
D-13M	CONCRETE CATCH BASIN WITH CAST IRON GRATE & CONCRETE MANHOLE WITH CAST IRON GRATE	1/3/00
D-15M	PRECAST REINF. CONC. MANHOLE GRATES (BICYCLE SAFE) CAST IRON GRATE WITH FRAME, TYPE D CAST IRON GRATE WITH FRAME, TYPE E	6/13/97

E-100M	CONSTRUCTION APPROACH SIGNS	6/13/97
E-100AM	CONSTRUCTION APPROACH SIGNS	2/2/98
E-101M	CONSTRUCTION SIGN DETAILS	6/13/97
E-102M	CONSTRUCTION SIGN DETAILS	6/13/97
E-102AM	CONSTRUCTION SIGN DETAILS	6/13/97
E-106M	TRAFFIC CONTROL - MISCELLANEOUS DETAILS	6/13/97
E-107M	DELINEATION, BARRICADES AND DETOURS FOR U-TURNS ON DIVIDED HIGHWAY	6/13/97
E-107AM	BREAKAWAY BARRICADE DETAILS	6/13/97
E-108M	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS	6/13/97
E-110M	MAJOR MAINTENANCE OPERATION LANE CLOSURE	6/13/97
E-121M	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	6/13/97
E-123M	GUIDE SIGN PLACEMENT - MISCELLANEOUS DETAILS	6/13/97
E-134M	BRIDGE NUMBER PLAQUE	6/13/97
E-138M	MILEMARKER DETAILS - STATE & TOWN HIGHWAYS	6/13/97
E-141M	REGULATORY SIGN DETAILS	6/13/97
E-142M	REGULATORY SIGN DETAILS	6/13/97
E-143M	REGULATORY SIGN DETAILS	6/13/97
E-160M	FLANGED CHANNEL STEEL SIGN POST	6/13/97
E-164M	SQUARE STEEL SIGN POST	6/13/97
E-191M	PAVEMENT MARKING DETAILS	2/1/99
E-193M	PAVEMENT MARKING DETAILS	6/13/97
G-1M	STEEL BEAM GUARDRAIL (50MPH & OVER) HEAVY DUTY STEEL BEAM GUARDRAIL TWISTED END TERMINAL	1/3/00
J-3M	MAILBOX SUPPORT DETAILS	6/13/97
T-1M	TEMPORARY EROSION CONTROL DETAILS	6/13/97
T-2M	TEMPORARY EROSION CONTROL DETAILS	6/13/97

PROJECT NAME: FRANKLIN
PROJECT NUMBER: STP 0301(18)

FILE NAME: ...85c060/design/dc060pms.dgn PLOT DATE: 20-MAR-2003
PROJECT LEADER: DELLASANTA DRAWN BY: SQUAD B
DESIGNED BY: SQUAD B CHECKED BY: SQUAD B
IPAM FILE NAME: (2)dc060Ind.I SHEET 2 OF 60

TYPICAL SECTIONS

NOT TO SCALE
 150 mm BITUMINOUS CONCRETE PAVEMENT
 (PLACED IN TWO LIFTS: 50mm TYPE III, 100mm TYPE I)
 450 mm SUBBASE OF DENSE GRADED CRUSHED STONE
 650 mm SAND BORROW
 (at 15+000 TO at 15+464J39)
 BITUMINOUS CONCRETE PAVEMENT REQUIRES THE
 USE OF PERFORMANCE GRADED ASPHALT, 58-34

MATERIALS TOLERANCE TABLE

MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT (TOTAL DEPTH)	±5 mm
SUBBASE	±30 mm
SAND BORROW	±30 mm

SEEDING FORMULA

RURAL AREAS				
% WT.	kg/ha	NAME	PUR.%	GERM.%
5.0	4	RED TOP	95	90
37.5	26	CREeping RED FESCUE	98	85
15.0	10	BIRD'S FOOT TREFOL (VAR. EMPIRE)	98	85
37.5	26	TALL FESCUE	95	90
5.0	4	ANNUAL RYE GRASS	95	85
100.0	70			

URBAN AREAS				
% WT.	kg/ha	NAME	PUR.%	GERM.%
42.5	38	CREeping RED FESCUE (VAR. PENNLAWN)	98	85
42.5	38	KENTUCKY BLUEGRASS (COMMON)	85	85
10.0	9	PERENNIAL RYE GRASS (VAR. PENNFINE)	95	90
5.0	5	ANNUAL RYE GRASS	95	85
100.0	90			

GENERAL NOTES

THE SEED MIXTURE SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE FROM ALL NOXIOUS WEED SEED.

SEED - TO BE APPLIED PER SEEDING FORMULAS DIRECTED BY THE ENGINEER.

FERTILIZER - FORMULA 10-20-10 TO BE USED WITH SEED, APPLIED AT THE RATE OF 560 kg/ha.

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

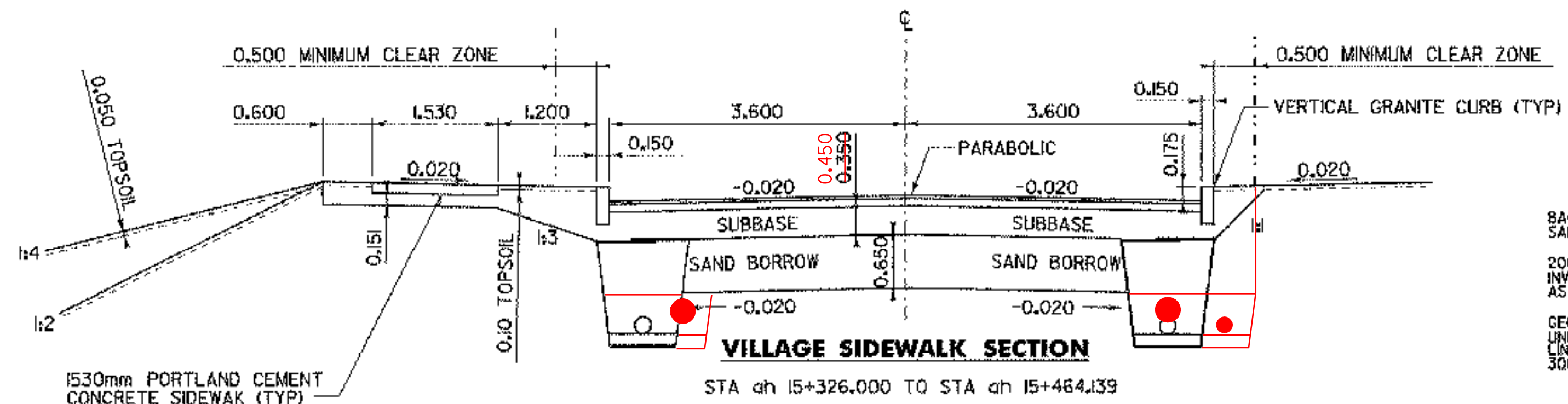
HAY MULCH - TO BE PLACED ON EARTH SLOPES AT THE RATE OF 4500 kg/ha OR AS DIRECTED BY THE ENGINEER.

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

MARKER POSTS - TO BE PLACED AS DIRECTED BY ENGINEER.

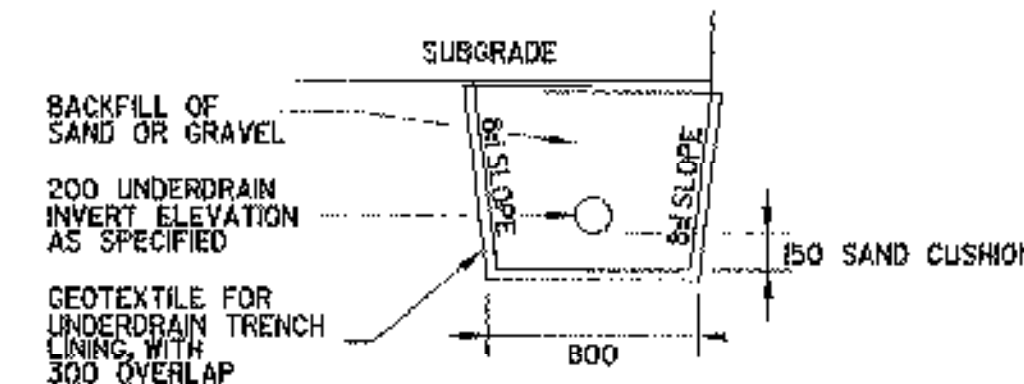
SLOPE ROUNDING - ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B-5M.

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.

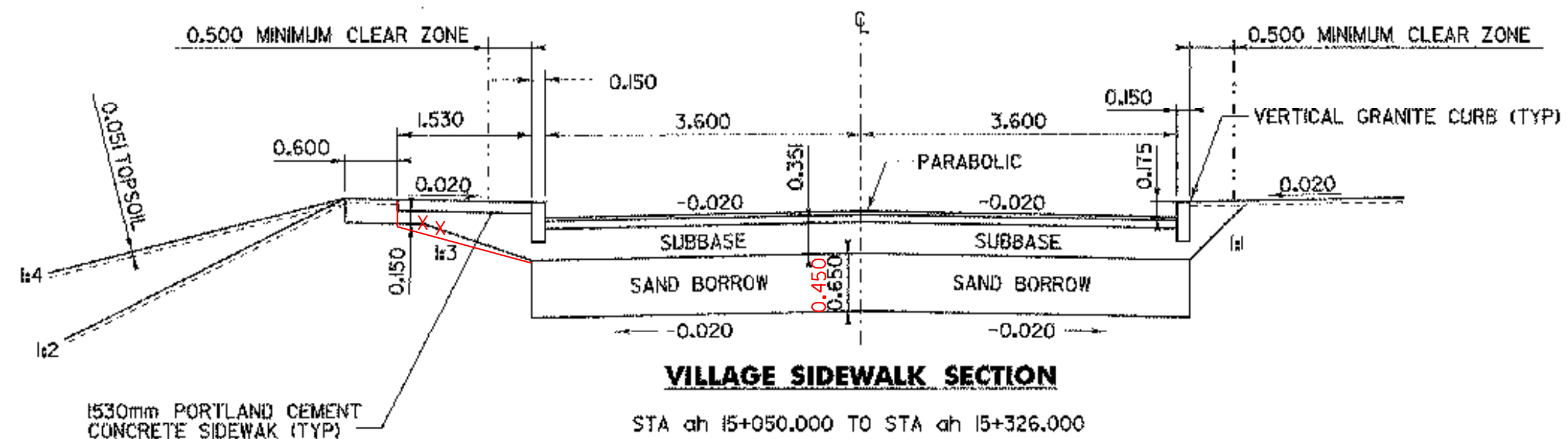


VILLAGE SIDEWALK SECTION

STA at 15+326.000 TO STA at 15+464J39

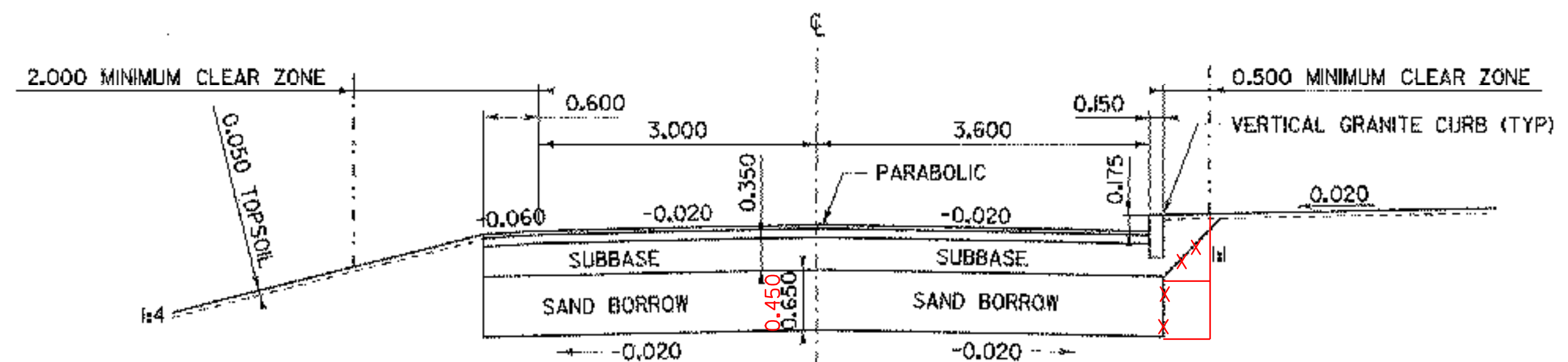


UNDERDRAIN DETAIL
NOT TO SCALE



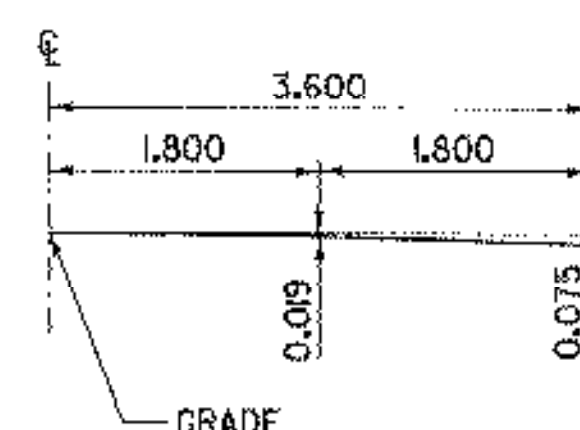
VILLAGE SIDEWALK SECTION

STA at 15+050.000 TO STA at 15+326.000



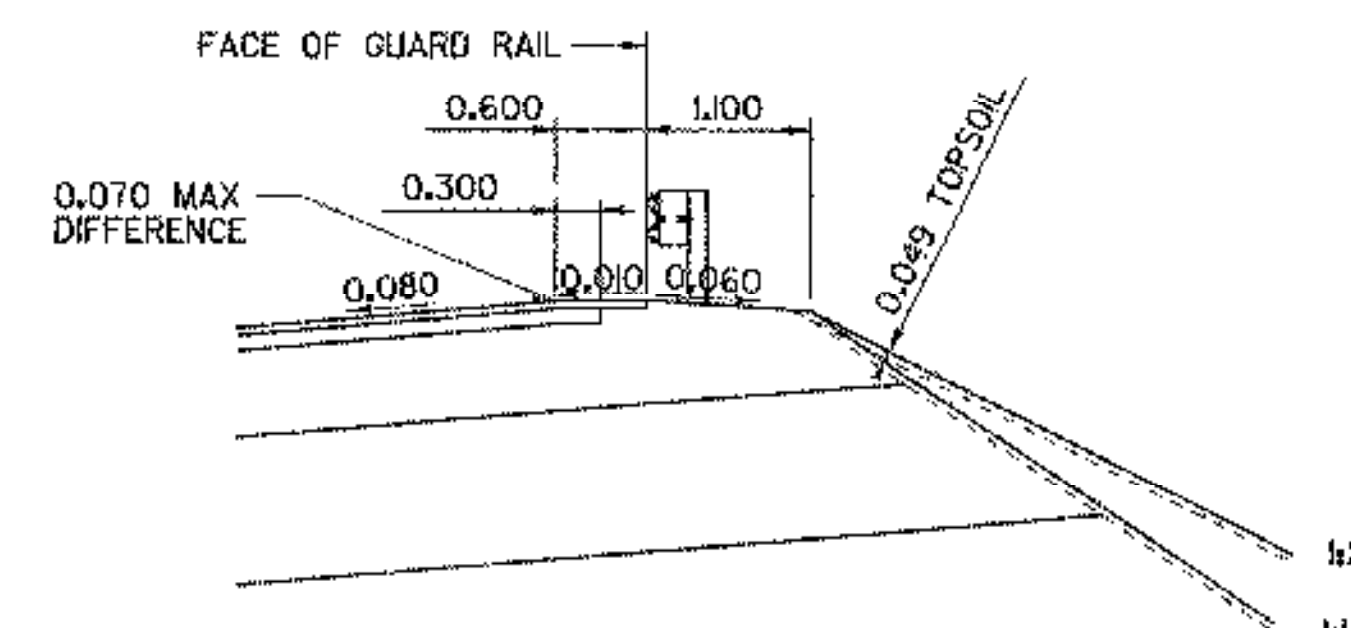
VILLAGE CURBED SECTION

STA at 15+00.00 TO STA at 15+050.00

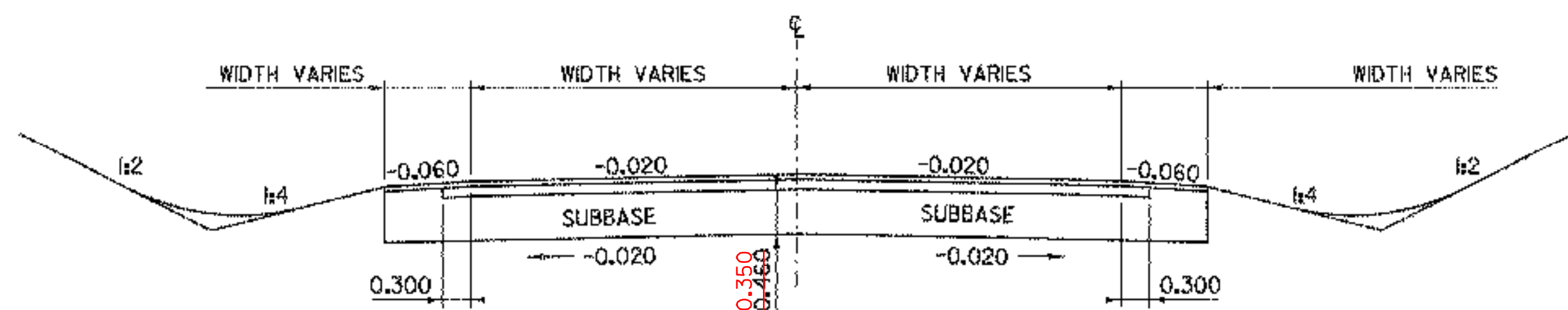


PARABOLIC DETAIL

3.6M LANE

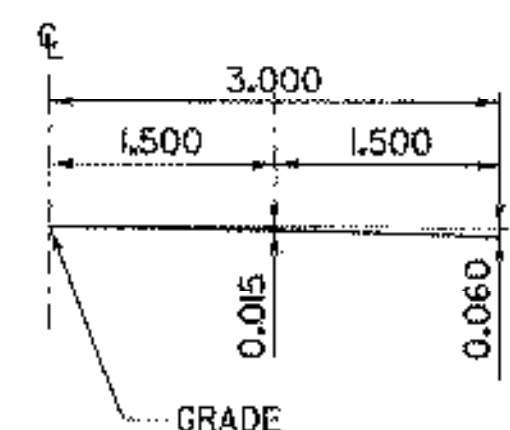


DETAIL OF GUARD RAIL ON HIGH SIDE OF BANKED SECTION



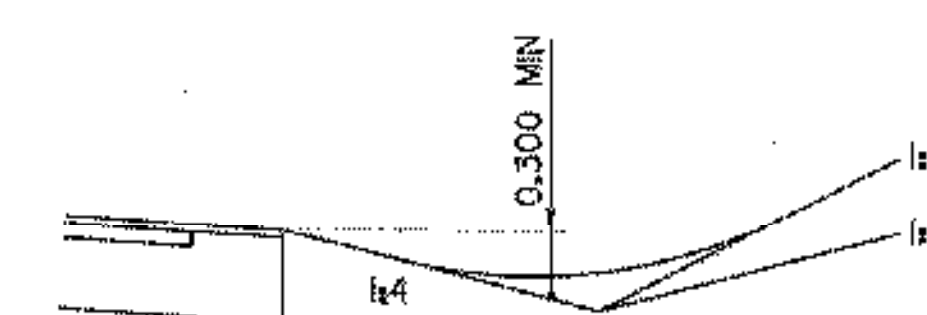
TOW HIGHWAY TYPICAL SECTION

TH #16



PARABOLIC DETAIL

3.0M LANE



DETAILS OF DITCH & BACKSLOPE FOR LOW SIDE OF BANK < 0.040

NOT TO SCALE

ALL DIMENSIONS IN M UNLESS OTHERWISE NOTED

PROJECT NAME:	HIGHGATE - FRANKLIN
PROJECT NUMBER:	STP RS 030(K) SA
FILE NAME:	85c060/design/2xc060typ.dgn
PLOT DATE:	28-MAR-2003
PROJECT LEADER:	DELLASANTA
DRAWN BY:	SQUAD B
DESIGNED BY:	SQUAD B
CHECKED BY:	SQUAD B
IPARM FILE NAME:	dc060+ylf
SHEET	3 OF 60

QUANTITY SHEET



SUMMARY OF ESTIMATED QUANTITIES											DETAILED SUMMARY OF QUANTITIES			DETAILED SUMMARY OF QUANTITIES					
		LAND-SCAPING	FULL E&C	EROSION CONTROL	HEADWALL	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND	QUANTITIES	UNIT	ITEMS	QUANTITIES	UNIT	ITEMS		
						1	1	L.S.	CLEARING AND GRUBBING (INCLUDING INDIV. TREES & STUMPS)	201.10	-								
						5500	5500	M ³	COMMON EXCAVATION	203.15	-			COMMON EXCAVATION			TEMPORARY EROSION CONTROL (INC IN EROSION CONTROL)		
						20	20	M ³	SOLID ROCK EXCAVATION	203.16	2.1			4398	M ³	MAINLINE (INCL. DESIGNED SAND BORROW)	20	M ³	TRENCH EXCAVATION OF EARTH
														331	M ³	TOWN HIGHWAY * 16	100	M ³	SUBBASE DENSE GRADED CRUSHED STONE
														548	M ³	DRIVES	10	M ³	STONE FILL TYPE I
					10		10	M ³	UNCLASSIFIED CHANNEL EXCAVATION	203.27	EST			223	M ³	ROUNDING	100	M ²	GEOTEXTILE FOR SILT FENCE
						50	50	M ³	EARTH BORROW	203.30	EST			5500	M ³	TOTAL	7	KG	SEED-WINTER RYE
						2500	2500	M ³	SAND BORROW	203.31	285						1.0	T	HAY MULCH
						4850	4850	M ²	FINE GRADING - SUBGRADE	203.40	22						50	M ²	EROSION MATTING
						25	25	M ³	TRENCH EXCAVATION OF EARTH (MOD)	204.20	EST								
				20		1700	1720	M ³	TRENCH EXCAVATION OF EARTH	204.20	19								
						10	10	M ³	TRENCH EXCAVATION OF ROCK	204.21	8								
						55	55	M ³	GRANULAR BACKFILL FOR STRUCTURES	204.30	EST								
						70	70	M ³	COFFERDAM EXCAVATION EARTH	208.30	EST								
						5	5	M ³	COFFERDAM EXCAVATION ROCK	208.35	EST								
						1	1	L	COFFERDAM	208.40	EST								
						100	100	M ²	COLD PLANING - BIT. PAVEMENT	210.10	15								
				100		1800	1900	M ³	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	75								
						75	75	M ³	AGGREGATE SURFACE COARSE	401.10	24								
						275	275	KG	EMULSIFIED ASPHALT	404.65	11								
						1550	1550	T	BITUMINOUS CONCRETE PAVEMENT (PG 58-34)	406.25	21								
						18	11	M ³	CONCRETE HIGH PERFORMANCE CLASS B	501.34	2.13								
						1300	300	KG	REINFORCING STEEL	507.15	2.4								
						6	6	L	WATER REPELLENT	514.10	EST								
						25.5	25.5	M	450 MM PCCSP 1.63 MM (68 MM X 12 MM)	601.0415	-								
						6.0	6.0	M	750 MM PCCSP 2.01 MM (68 MM X 12 MM)	601.0436	-								
									BEGIN OPTION PIPES										
						444.5	444.5	M	450 MM CAAP 1.52 MM (68 MM X 12 MM)	601.0215	-								
						444.5	444.5	M	450 MM PCCSP 1.63 MM (68 MM X 12 MM)	601.0415	-								
						444.5	444.5	M	450 MM RCP CLASS III	601.0815	-								
						444.5	444.5	M	450 MM CPEP (SL)	601.2615	-								
						83.5	83.5	M	750 MM CAAP 1.91 MM (68 MM X 12 MM)	601.0306	-								
						83.5	83.5	M	750 MM PCCSP 2.01 MM (68 MM X 12 MM)	601.0436	-								
						83.5	83.5	M	750 MM RCP CLASS III	601.0835	-								
						83.5	83.5	M	750 MM CPEP(SL)	601.2625	-								
									END OPTION PIPES										
						30	30	M	RELAYING PIPE CULVERT	601.99	EST								

PROJECT NAME: FRANKLIN
PROJECT NUMBER: STP 030(18)
FILE NAME: ...85c060/desigr/dc060pms.dgn PLOT DATE: 16-MAY-2003
PROJECT LEADER: DELLASANTA DRAWN BY: SQUAD B
DESIGNED BY: SQUAD B CHECKED BY: SQUAD B
IPAM FILE NAME: (2)dc060q01.i SHEET 4 OF 60

QUANTITY SHEET



SUMMARY OF ESTIMATED QUANTITIES											DETAILED SUMMARY OF QUANTITIES			DETAILED SUMMARY OF QUANTITIES			
		LAND-SCAPING	FULL E&C	EROSION CONTROL	HEADWALL	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND	QUANTITIES	UNIT	ITEMS	QUANTITIES	UNIT	ITEMS
						20	20	EA	CONCRETE CATCH BASIN W/ CAST IRON GRATE	604.10	-						
						4	4	EA	CAST IRON GRATE WITH FRAME, TYPE D	604.47	-						
						750	750	M	150 MM UNDERDRAIN	605.10	30						
						30	30	M	150 MM UNDERDRAIN CARRIER PIPE	605.20	15						
						25	25	EA	UNDERDRAIN FLUSHING BASINS	605.95	-						
						50	50	HR	ROADWAY PATROL MAINTENANCE	607.10	18						
						10	10	HR	BULLDOZER RENTAL, TYPE I	608.10	EST						
						10	10	HR	POWER GRADER RENTAL	608.15	EST						
						10	10	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST						
						10	10	HR	POWER BROOM RENTAL	608.30	EST						
						10	10	HR	TRUCK RENTAL	608.37	EST						
						10	10	HR	LOADER RENTAL, TYPE I	608.40	EST						
						930	930	M ³	DUST CONTROL WITH WATER	609.10	EST						
						1.6	1.6	T	DUST AND ICE CONTROL WITH CALCIUM CHLORIDE	609.15	EST						
				10			10	M ³	STONE FILL TYPE I	613.10	EST						
					21	3.0	24	M ³	STONE FILL TYPE II	613.11	7.0						
						815	815	M	VERTICAL GRANITE CURB	616.21	4.2						
						8	8	EA	RELOCATE MAILBOX, SINGLE SUPPORT	617.10	-						
						630	630	M ²	PORTLAND CEMENT CONCRETE SIDEWALK, 125 MM	618.10	4						
						2	2	EA	REMOVING AND RESETTING PROPERTY MARKERS	619.20	EST						
						25	25	M	REMOVING AND RESETTING FENCE	620.50	1						
						38	38	M	STEEL BEAM GUARD RAIL	621.20	6.1						
						4	4	EA	ANCHOR FOR STEEL BEAM RAIL	621.60	-						
						25	25	M	REMOVAL AND DISPOSAL OF GUARD RAIL	621.80	6.0						
						25	25	M	SEAMLESS COPPER WATER TUBE(3/4')	629.23	EST						
						5	5	EA	EXTENSION SERVICE BOX AND CURB STOP	629.25	EST						
						25	25	M	PLASTIC WATER PIPE, RIGID(8" CL150 PVC WATERLINE)	629.33	EST						
						25	25	M	PIPE INSULATION	629.44	EST						
						130	130	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST						

PROJECT NAME: FRANKLIN
 PROJECT NUMBER: STP 030(18)
 FILE NAME: ...85c060/desigr/dc060pms.dgn PLOT DATE: 24-APR-2003
 PROJECT LEADER: DELLASANTA DRAWN BY: SQUAD B
 DESIGNED BY: SQUAD B CHECKED BY: SQUAD B
 IPAM FILE NAME: (2)dc060q02.1 SHEET 5 OF 60

QUANTITY SHEET



SUMMARY OF ESTIMATED QUANTITIES											DETAILED SUMMARY OF QUANTITIES			DETAILED SUMMARY OF QUANTITIES			
		LAND-SCAPING	FULL E&C	EROSION CONTROL	HEADWALL	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND	QUANTITIES	UNIT	ITEMS	QUANTITIES	UNIT	ITEMS
						400	400	HR	FLAGGERS	630.15	EST						
			1				1	L.S.	FIELD OFFICE - ENGINEERS	631.10	-						
			1				1	L.S.	TESTING EQUIPMENT - CONCRETE	631.16	-						
			1				1	L.S.	TESTING EQUIPMENT - BITUMINOUS	631.17	-						
			1				1	L.U.	FIELD OFFICE TELEPHONE (NOT A BID ITEM)	631.25	-						
						1	1	L.S.	MOBILIZATION	635.10	-						
						1	1	L.S.	TRAFFIC CONTROL	641.10	-						
						1050	1050	M	DURABLE 100 MM WHITE LINE	646.40	20						
						950	950	M	DURABLE 100 MM YELLOW LINE	646.41	40						
						14.5	14.5	M	DURABLE 600 MM STOP BARS	646.46	-						
						8	8	EA	DURABLE LETTER OR SYMBOL	646.50	-						
						1050	1050	M	TEMPORARY 100 MM WHITE LINE	646.60	20						
						950	950	M	TEMPORARY 100 MM YELLOW LINE	646.61	40						
						14.5	14.5	M	TEMPORARY 600 MM STOP BARS	646.66	-						
						8	8	EA	TEMPORARY LETTER OR SYMBOL	646.70	-						
						44	44	EA	LINE STRIPING TARGETS	646.76	EST						
				20	40		60	M ²	GEOTEXTILE UNDER STONE FILL	649.31	EST						
				2500			2500	M ²	GEOTEXTILE FOR UNDERDRAIN TRENCH LINING	649.41	59						
				300			300	M ²	GEOTEXTILE FOR SILT FENCE	649.51	5						
				50			50	KG	SEED	651.15	0.1						
				7			7	KG	SEED-WINTER RYE	651.17	0.1						
				415			415	KG	FERTILIZER	651.18	2.2						
				4			4	T	AGRICULTURAL LIMESTONE	651.20	0.7						
				4			4	T	HAY MULCH	651.25	-						
				50			50	M ²	SODDING	651.30	EST						
						100	100	M ³	TOPSOIL	651.35	8						
					25		25	M ²	GRUBBING MATERIAL	651.40	EST						
				1			1	LS	EROSION & SEDIMENT CONTROL AND STORMWATER MANAGEMENT PLAN	652.10	-						
				1			50	HR	MONITORING EROSION & SEDIMENT AND STORMWATER MANAGEMENT PLAN	652.20	EST						

PROJECT NAME: FRANKLIN
 PROJECT NUMBER: STP 030(I18)
 FILE NAME: ...85c060/design/dc060pms.dgn PLOT DATE: 07-MAY-2003
 PROJECT LEADER: DELLASANTA DRAWN BY: SQUAD B
 DESIGNED BY: SQUAD B CHECKED BY: SQUAD B
 IPAM FILE NAME: (2)dc060q03.I SHEET 6 OF 60



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

TABLE OF PROJECT PROPERTY ACQUISITION

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
36	BENOIT, PIERRE & BETTY A.	8	AH 15+042.0 LT.				DRIVE (T)						GRAVEL 3.6M WIDE	1	6,8	PARCEL NO. 37 LAURIE-DAY. DELETE EDWARD F. DAY. PER C.O. 9237.	05-24-02	M. J. R.	R. P. D.
37	Laurie-Day, Anne S.	8	AH 15+038.4 RT. AH 15+046.6 RT. AH 15+047.9 RT. AH 15+051.0 RT.	AH 15+046.8 RT.			SLOPE (T) 8.3 SM± REMOVE & RESET (T) 50 SM± REMOVE & RESET (T) DRIVE (T)						89 S.F. ± 50 MM SPRUCE 50 MM SPRUCE GRAVEL 3M WIDE	2	6,8	PARCEL NO. 39 LEWIS. CHANGE NAME TO: BENOIT, PIERRE & BETTY A.; JACOBS, GARY P. PER C.O. 9238.	05-24-02	M. J. R.	R. P. D.
38	MAGNANT, TIMOTHY A. & MARTHA E.	8	AH 15+053.4 RT. AH 15+068.0 RT.	AH 15+062.9 RT.			SLOPE (T) 23 SM± DRIVE (T)						248 S.F. ± GRAVEL 3.6M WIDE	3	6,9	PARCEL NO. 46 LOTHIAN. CHANGE NAME TO: BARRETT, STEPHEN D. & QUINTIN, GINA C. PER C.O. 9239.	05-24-02	M. J. R.	R. P. D.
39	BENOIT, PIERRE & BETTY A. & JACOBS, GARY P.	8	AH 15+093.0 LT.				DRIVE (T)						GRAVEL 3M WIDE	4	6,9	PARCEL NO. 47 LOTHIAN. CHANGE NAME TO: LOTHIAN, KEVIN E. & DARLA J. PER C.O. 9240	05-24-02	M. J. R.	R. P. D.
40	NOT USED													5	7,10	PARCEL NO. 52 GRANGER. REMOVE BEATRICE M. GRANGER FROM TITLE. PER C.O. 9241.	05-24-02	M. J. R.	R. P. D.
41	DOMINA, LEE	8	AH 15+102.0 RT.				DRIVE (T)						GRAVEL 3M WIDE	6	7,10	PARCEL NO. 53 TIPPER. REMOVE KIMBERLY L. TIPPER FROM TITLE. PER C.O. 9242.	05-24-02	M. J. R.	R. P. D.
42	BISHOP, LAWRENCE F. & VERA VIVIAN	9	AH 15+160.0 RT.				DRIVE (T)						PAVED 3M WIDE	7	10	PARCEL NO. 55 COOPER. CHANGE LAYOUT SO IT SHOWS FENCE ON EASTERLY BOUNDARY. NO ADDITIONAL RIGHTS NECESSARY. PER C.O. 9243.	05-24-02	M. J. R.	R. P. D.
43	WILLIAMS, RODNEY L. & DARLENE N.	9	AH 15+136.0 LT. AH 15+154.0 LT. AH 15+158.6 LT. AH 15+169.1 LT.	AH 15+170.4 LT.			DRIVE (T) INSTALL (T) REMOVE & RESET (T) SLOPE (T) 0.1 SM±						GRAVEL 3.2M WIDE SIDEWALK LILAC 1 S.F. ±	8	7,10	PARCEL NO. 56 LUCE. ADD KING, CECIL AS OWNER. DELETE THE RIGHT 'REMOVE & RESET (T)' FOR FENCE. PER C.O. 9244.	05-24-02	M. J. R.	R. P. D.
44	BULLIS, CLIFFORD J. & HILL, STARLENE A.	9	AH 15+177.0 LT. AH 15+180.0 LT. AH 15+194.0 LT. AH 15+197.1 LT. TH16 26+043 LT.	AH 15+187.2 LT. AH 15+197.0 LT. AH 15+197.6 LT.			DRIVE (T) SLOPE (T) 1 SM± REMOVE & RESET (T) CULVERT (P) DRIVE (T)			FRANKLIN			GRAVEL 2.4M WIDE 11 S.F. ± FENCE GRAVEL 6M WIDE	9	1-10	CREATED NEW R.O.W. SET. RE-NUMBERED SHEETS. NEW SUB-PROJECT FOR VILLAGE OF FRANKLIN PORTION. ALL PARCELS(36-57) AFFECTED. RIGHTS REVISED FOR PARCELS 49(COOPER), 50(PIERCE) AND 51(LOTHIAN).	09-27-02	G. J. F.	R. P. D.
45	BRAYSON, MICHAEL C.	9	AH 15+162.2 RT. AH 15+169.0 RT.	AH 15+162.8 RT.			SLOPE (T) 0.3 SM± DRIVE (T)						3 S.F. ± PAVED 2.8M WIDE	10	6,9	PARCEL NO. 46 BARRETT & QUINTIN. CHANGED SPELLING OF BARRETT, STEPHEN D. TO BARRETTE, STEPHEN D. PER C.O. 9266	01-09-03	P. J. H.	R. P. D.
46	BARRETTE, STEPHEN D. & QUINTIN, GINA C.	9	AH 15+194.0 RT. AH 15+204.0 RT.				DRIVE (T) CONNECT (T)						GRAVEL 2.5M WIDE CELLAR DRAIN			ELECTRONIC IPARMS TO ROADWAY 4-28-03			
47	LOTHIAN, KEVIN E. & DARLA J.	9	AH 15+218.0 RT. AH 15+227.0 RT. AH 15+231.0 RT.				DRIVE (T) INSTALL (T) CONNECT (T)						PAVED 3.7M WIDE SIDEWALK CELLAR DRAIN						
48	WILLIAMS, MATTHEW L. & JESSICA L.	9	AH 15+216.0 LT. AH 15+219.1 LT. AH 15+227.0 LT. AH 15+242.0 LT. TH16 26+031 RT.	AH 15+220.0 LT.			SLOPE (T) 2 SM± REMOVE (T) INSTALL (T) REMOVE & RESET (T) DRIVE (T)						22 S.F. ± 450 MM MAPLE SIDEWALK IRON PIN GRAVEL 11.3M WIDE						

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DATE PLOTTED 28-APR-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
... C&T (P) ... CLEAR ZONE
--- CONST. (T) --- CONSTRUCTION EASEMENT
SR SR SLOPE RIGHTS
P PROPERTY LINE
L TOP OF CUT
O O TOE OF SLOPE

--- UE (P) --- PERMANENT UTILITY EASEMENT

APPROVED: ROGER P. DUMAS DATE: 10-01-02
CHIEF, PLANS & TITLES

R. O. W. PLANS
HIGHGATE-FRANKLIN
STP RS 0301 (1) SA
VILLAGE PORTION
6 10
SHEET 12 OF 60



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

TABLE OF PROJECT PROPERTY ACQUISITION

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
49	COOPER, FREDERICK A. & RUTH	9	AH 15+278.00 LT. AH 15+268.0 LT. AH 15+275.4 LT.	AH 15+288.26 LT. AH 15+279.1 LT.	68 SM±		DRIVE (T) SLOPE (T) 4 SM±			FRANKLIN			732 S.F.± GRAVEL 3.7M WIDE 43 S.F.±	11	7,10	PARCEL NO. 56 LUCE & KING. ADD 6' CURB CUT BETWEEN APPROX. STA. 15+370.5 LT. AND 15+372.3 LT. PER C.O. 9267	03-21-03	G. J. F.	R. P. D.
50	PIERCE, ROBERT J.	9	AH 15+275.0 RT. AH 15+255 RT. AH 15+264 RT. AH 15+265.6 RT. AH 15+269.2 RT.	AH 15+281.32 RT.± AH 15+281.8 RT.	17 SM±		CONNECT (T) DRIVE (T) REMOVE (T) CONST. (T) 22 SM±			FRANKLIN			183 S.F.± CELLAR DRAIN PAVED 4.7M WIDE STUMP INC. EROSION CONTROL 237 S.F.±	12	7,10	PARCEL NO. 51 LOTHIAN. REMOVE 600MM MAPLE TREE @ APPROX. STA. 15+329 RT. REMOVE MAPLE @ APPROX. STA. 15+345 RT. PER C.O. 9269	03-21-03	G. J. F.	R. P. D.
51	LOTHIAN, MERRIMAN E. & LUCILLE	9,10	AH 15+280.94 RT.± AH 15+280.8 RT. AH 15+281.4 RT. AH 15+288.0 RT. AH 15+316.0 RT. AH 15+339.0 RT. AH 15+361.8 RT.	AH 15+288.00 RT. AH 15+287.7 RT. AH 15+298.2 RT. AH 15+290.4 RT.	18 SM±		CHANNEL (P) 21 SM± CONST. (T) 27 SM± SLOPE (T) 3 SM± DRIVE (T) DRIVE (T) SLOPE (T) 0.1 SM±			FRANKLIN			194 S.F.± 226 S.F.± 291 S.F.± 32 S.F.± GRAVEL 3.2M WIDE GRAVEL 6.4M WIDE 1 S.F.±	13	7,8	PARCEL NO. 38 MAGNANT. INCREASE DISTANCE AT CURB CUT OPENING TO A MINIMUM OF FIFTEEN FEET(15')[4.57 METERS±]WIDE AT APPROX. STA. AH 15+068.0 RT. PER C.O. 9277	03-21-03	G. J. F.	R. P. D.
52	GRANGER, JOHN P.	10	AH 15+366.0 RT. AH 15+379.0 RT.	AH 15+368.0 RT.			REMOVE & RESET (T) DRIVE (T)						FENCE GRAVEL 3M WIDE	14	7,9	PARCEL NO. 43 WILLIAMS. STRAIGHTEN ALIGNMENT OF NEW SIDEWALK TO BE INSTALLED BETWEEN APPROX. STA. AH 15+142.0 LT. AND STA. AH 15+170.0 LT. DELETE THE WORD 'SAVE' WHERE IT APPEARS IN CONNECTION WITH THE THREE MAPLE TREES LOCATED WITHIN THE RIGHT OF WAY IN FRONT OF OWNERS PARCEL. PER C.O. 9279	03-21-03	G. J. F.	R. P. D.
53	TIPPER, ROBERT C., JR.	10	AH 15+391.0 RT. AH 15+400.0 RT.				INSTALL (T)						SIDEWALK DRIVE	15	7,9	PARCEL NO. 44 BULLIS. STRAIGHTEN ALIGNMENT OF NEW SIDEWALK TO BE INSTALLED BETWEEN APPROX. STA. AH 15+170.0 LT. AND STA. AH 15+190.0 LT. PER C.O. 9280	03-21-03	G. J. F.	R. P. D.
54	PLOOF, MARSHALL W. & COLETTE J., LESSOR THE UNITED STATES POSTAL SERVICE, LESSEE	10	AH 15+416.0 RT.				DRIVE (T)						GRAVEL 14.6M WIDE						
55	COOPER, RICHARD L. & DARLENE J.	10	AH 15+333.0 LT. AH 15+337.6 LT. AH 15+338.0 LT. AH 15+339.0 LT. AH 15+360.0 LT. AH 15+361.1 LT.	AH 15+357.5 LT. AH 15+343.0 LT. AH 15+341 LT.			DRIVE (T) SLOPE (T) 37 SM± INSTALL (T) REMOVE & RESET (T) DRIVE (T) SLOPE (T) 8 SM±						GRAVEL 8.6M WIDE 398 S.F.± SIDEWALK 2 ROSE BUSHES GRAVEL 2.1M WIDE 86 S.F.±						
56	LUCE, JACQUELINE C. & KING, CECIL	10	AH 15+449.0 LT. AH 15+370.1 LT. AH 15+412.0 LT. AH 15+415.9 LT. AH 15+444.9 LT. AH 15+450.1 LT.	AH 15+456.07 LT. AH 15+408.9 LT. AH 15+450.1 LT. AH 15+451.3 LT. AH 15+454.2 LT.	36 SM±		SLOPE (T) 15 SM± DRIVE (T) SLOPE (T) 20 SM± INSTALL & MAINT. (P) SLOPE (T) 10 SM±			FRANKLIN			388 S.F.± 161 S.F.± GRAVEL 3.2M WIDE 215 S.F.± SIDEWALK 108 S.F.±						
57	LEWIS, EDWARD P. SR. & SANDRA P.	9	TH16 26+050 RT.				DRIVE (T)						GRAVEL 3M WIDE						

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DATE PLOTTED 28-APR-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
CONSI. (T) --- CONSTRUCTION EASEMENT
SR SR --- SLOPE RIGHTS
P --- PROPERTY LINE
L --- TOP OF CUT
O O --- TOE OF SLOPE

PERMANENT UTILITY EASEMENT

APPROVED: ROGER P. DUMAS DATE: 10-01-02
CHIEF, PLANS & TITLES

R. O. W. PLANS
HIGHGATE-FRANKLIN
STP RS 0301 (1) SA
VILLAGE PORTION
7 10
SHEET 13 OF 60

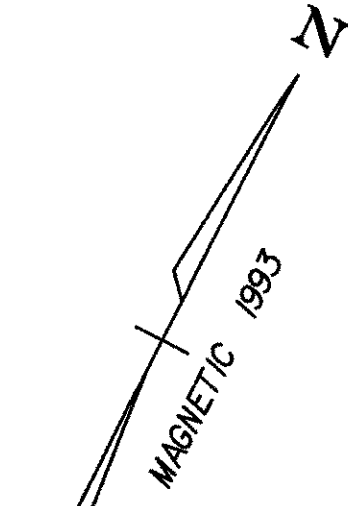
CONSTRUCT DRIVE
 15+042 LT GRAVEL
 15+051 RT GRAVEL
 15+068 RT GRAVEL
 15+093 LT GRAVEL
 15+102 RT GRAVEL

VERTICAL GRANITE CURB
 15+033.8 TO 15+048.8 RT
 15+040.1 TO 15+091.4 LT
 15+053.0 TO 15+064.4 RT
 15+068.2 TO 15+100.4 RT
 15+095.0 TO 15+120.0 LT
 15+103.5 TO 15+120.0 RT

RELOCATE MAIL BOX, SINGLE SUPPORT
 15+048 LT TO 15+046 LT
 15+057 RT TO 15+053 RT.
 15+090 LT TO 15+091 LT.
 15+107 RT TO 15+105 RT.

PORTLAND CEMENT CONCRETE SIDEWALK, 1530MM
 15+051 TO 15+091 LT
 15+095 TO 15+120 LT

TRANSPLANTING TREES
 15+046.6 RT 50 SM+/-
 15+047.9 RT 50 SM+/-
 (FINAL LOCATION WILL BE AT A MUTUALLY AGREED UPON LOCATION BETWEEN THE ENGINEER AND PROPERTY OWNER)

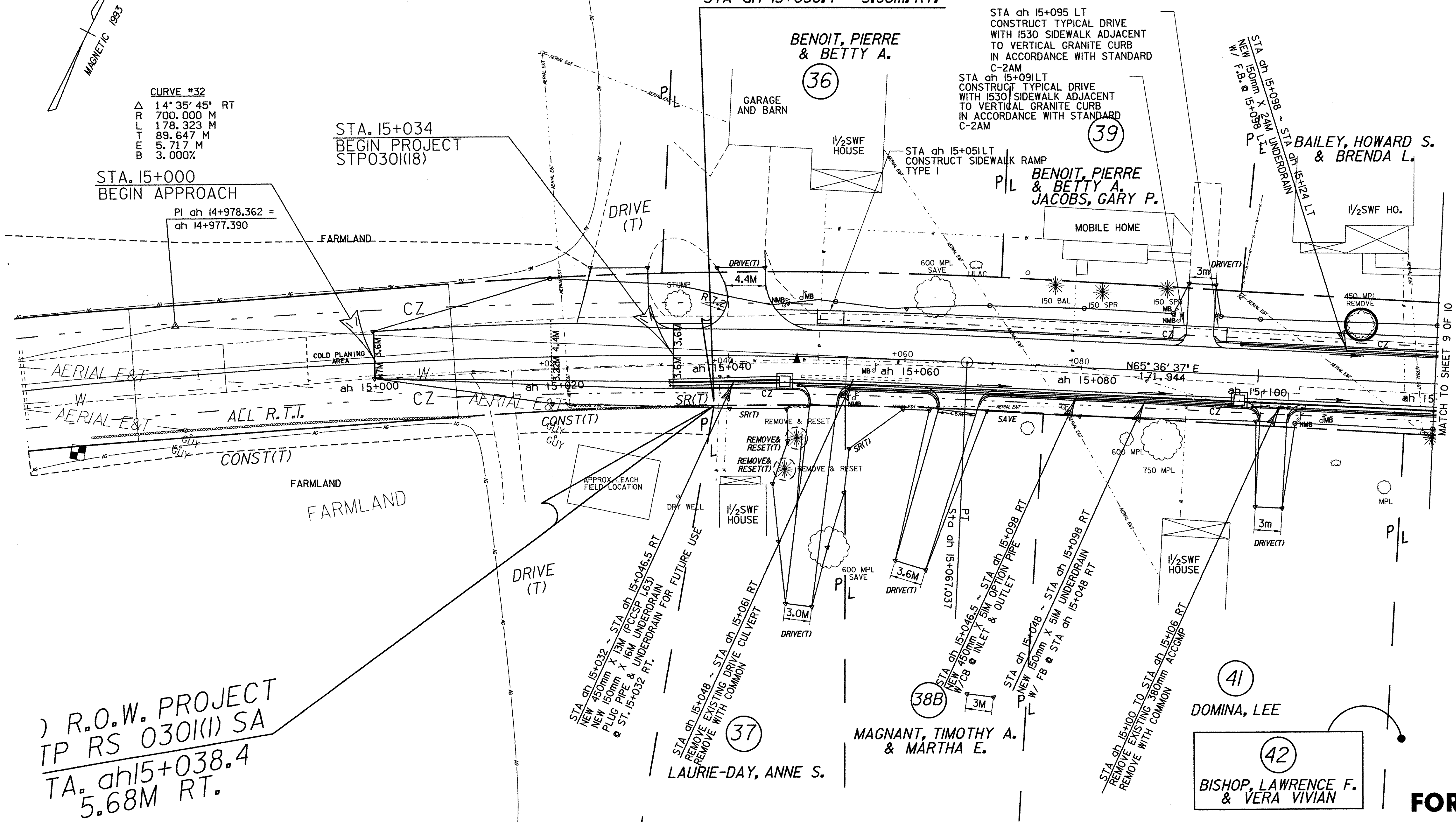


CURVE #32
 Δ 14° 35' 45" RT
 R 700.000 M
 L 178.323 M
 T 89.647 M
 E 5.717 M
 B 3.000%

STA. 15+000
 BEGIN APPROACH
 Pl ah 14+978.362 =
 ah 14+977.390

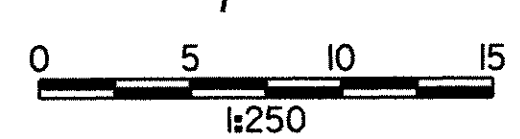
STA. 15+034
 BEGIN PROJECT
 STP0301(I) SA

BEGIN R.O.W. PROJECT
 RS 0301-9(I) SA
 STA ah 15+038.4 5.68m. RT.



R.O.W. PROJECT
 IP RS 0301(I) SA
 TA. ah 15+038.4
 5.68M RT.

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE TOWN OF FRANKLIN'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.



○ DENOTES TREE OR STUMP REMOVAL

ALL DRIVE RADII SHALL BE 6M UNLESS OTHERWISE NOTED PER STD B-71M

PROJECT NAME: HIGHGATE - FRANKLIN VILLAGE PORTION	
PROJECT NUMBER: STP RS 0301(I) SA	
FILE NAME: ...85c060/desgn/dc060bdr.dgn	PLOT DATE: 28-APR-2003
PROJECT LEADER: DELLASANTA	DRAWN BY: SQUAD B
DESIGNED BY: SQUAD B	CHECKED BY: SQUAD B
R.O.W. SHEET 8 OF 10	SHEET 14 OF 60

FOR R.O.W. USE ONLY

VERTICAL GRANITE CURB
 15+120.0 TO 15+125.2 LT
 15+120.0 TO 15+158.7 RT
 15+128.6 TO 15+133.9 LT
 15+138.0 TO 15+175.7 LT
 15+161.8 TO 15+164.9 RT
 15+168.8 TO 15+191.8 RT
 15+178.4 TO 15+197.7 LT
 15+195.2 TO 15+216.0 RT
 SL 26+006.1 TO SL 26+037.3 LT
 SL 26+036.9 TO SL 26+047.4 RT
 SL 26+024.4 RT TO ML 15+212.4 LT
 15+214.4 TO 15+266.1 LT
 15+219.7 TO 15+260.8 RT
 15+265.5 TO 15+300.0 RT
 15+270.4 TO 15+300.0 LT

RELOCATE MAIL BOX, SINGLE SUPPORT
 15+132 LT TO 15+131.1
 15+196 RT TO 15+194.7
 SL 26+038 RT
 SL 26+045 RT

REMOVING AND RESETTING FENCE
 15+194 TO 15+197 LT

TRANSPLANTING SHRUBS
 15+158.6 LT - LILAC BUSH
 (FINAL LOCATION WILL BE AT A MUTUALLY AGREED UPON LOCATION BETWEEN THE ENGINEER AND PROPERTY OWNER)

STA ah 15+025 LT AND STA ah 15+029 LT
 CONSTRUCT TYPICAL DRIVE WITH 1530 SIDEWALK ADJACENT TO VERTICAL GRANITE CURB IN ACCORDANCE WITH STANDARD C-2AM

STA ah 15+175 LT AND STA ah 15+179 LT
 STA ah 15+039 LT AND STA ah 15+033 LT
 CONSTRUCT TYPICAL DRIVE WITH 1530 SIDEWALK ADJACENT TO VERTICAL GRANITE CURB IN ACCORDANCE WITH STANDARD C-2AM

STA ah 15+196 LT
 CONSTRUCT SIDEWALK RAMP TYPE I

BULLIS, CLIFFORD J. & HILL, STARLENE A.

WILLIAMS, RODNEY L. & DARLENE N.

LEWIS, EDWARD P. SR. & SANDRA P.

WILLIAMS, MATTHEW L. & JESSICA L.

COOPER, FREDRICK A. & RUTH

PIERCE, ROBERT J.

LOTHIAN, KEVIN E. & DARLA J.

BARRETTE, STEPHEN D. & QUINTIN, GINA C.

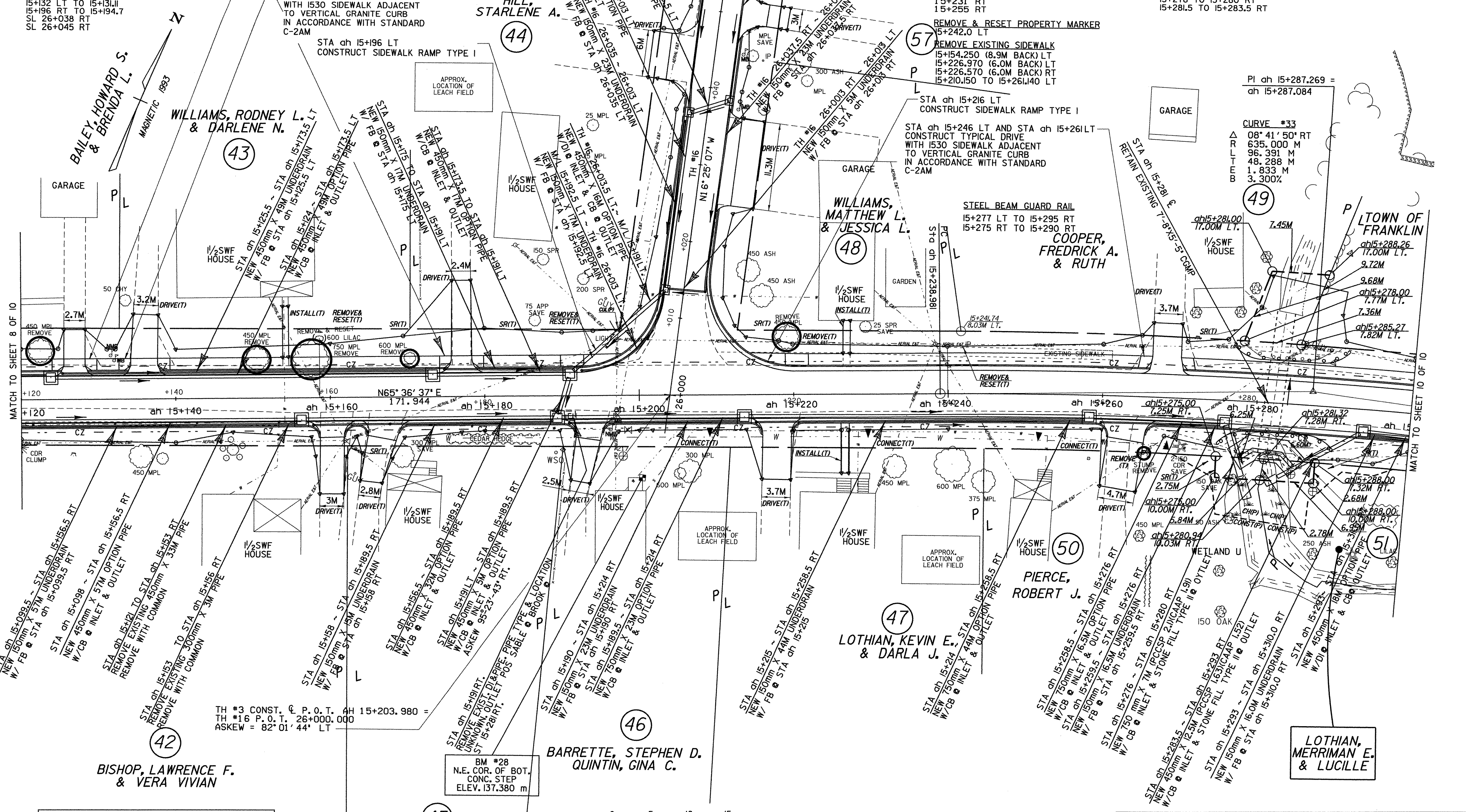
BISHOP, LAWRENCE F. & VERA VIVIAN

BRAYSON, MICHAEL C.

CONSTRUCT DRIVE
 15+127 LT GRAVEL
 15+136 LT GRAVEL
 15+160.3 RT PAVED
 15+168 RT PAVED
 15+177 LT GRAVEL
 15+194 RT GRAVEL
 15+264 RT PAVED
 15+268 LT GRAVEL
 TH #16 STA 26+031 RT GRAVEL
 TH #16 STA 26+043 LT GRAVEL
 TH #16 STA 26+050 RT GRAVEL

STONE FILL TYPE II
 15+278 TO 15+280 RT
 15+281.5 TO 15+283.5 RT

CURVE #33
 08° 41' 50" RT
 635.000 M
 96.391 M
 48.288 M
 1.833 M
 3.300%



MATCH TO SHEET 8 OF 10

MATCH TO SHEET 10 OF 10

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE TOWN OF FRANKLIN'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

○ DENOTES TREE OR STUMP REMOVAL

ALL DRIVE RADII SHALL BE 6M UNLESS OTHERWISE NOTED PER STD B-71M

FOR R.O.W. USE ONLY

PROJECT NAME:	HIGHGATE - FRANKLIN VILLAGE PORTION
PROJECT NUMBER:	STP RS 030(I) SA
FILE NAME:	...85c060/design/dc060bdr.dgn
PROJECT LEADER:	DELLASANTA
DESIGNED BY:	SQUAD B
R.O.W. SHEET 9 OF 10	
DRAWN DATE:	28-APR-2003
PLOT DATE:	
CHECKED BY:	SQUAD B
SHEET 15 OF 60	

VERTICAL GRANITE CURB
 15+300.0 TO 15+328.8 LT
 15+300.0 TO 15+313.8 RT
 15+317.1 TO 15+336.0 RT
 15+317.9 TO 15+338.6 LT
 15+322.5 TO 15+357.4 RT
 15+341.4 TO 15+410.1 LT
 15+380.6 TO 15+398.2 RT
 15+401.5 TO 15+408.6 RT
 15+413.9 TO 15+454.7 LT
 15+423.2 TO 15+458.9 RT

CONSTRUCT DRIVE
 15+316 RT GRAVEL
 15+333 LT GRAVEL
 15+339 RT GRAVEL
 15+360 LT GRAVEL
 15+379 RT GRAVEL
 15+400 RT GRAVEL
 15+412 LT GRAVEL
 15+416 RT GRAVEL

PORTLAND CEMENT CONCRETE SIDEWALK, 1530MM
 15+300 TO 15+451 LT

PORTLAND CEMENT CONCRETE WALK
 15+338 TO 15+343 LT (BACK 4.6 M)
 15+349 RT 3M BACK
 15+391 RT 4.6M BACK

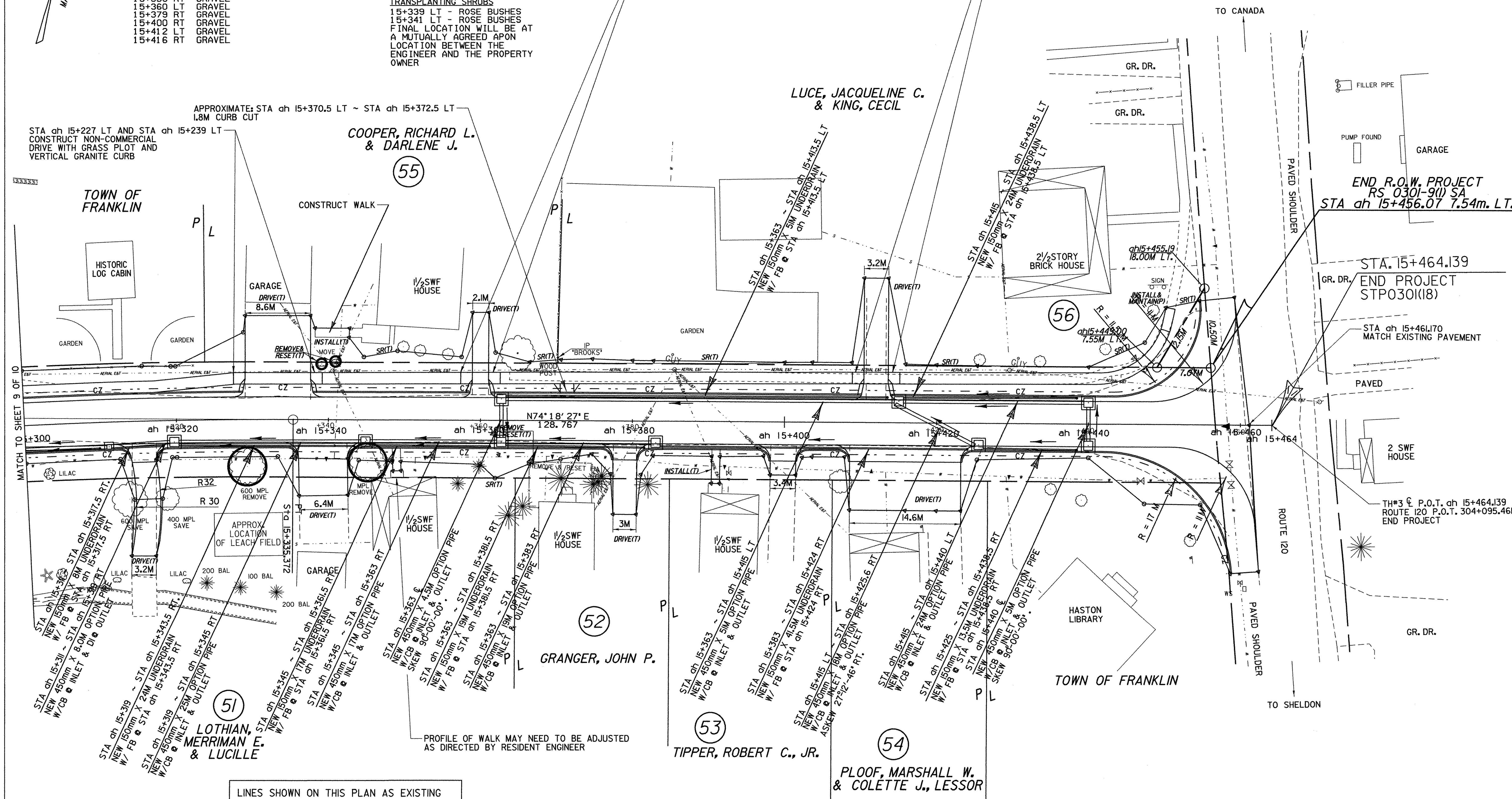
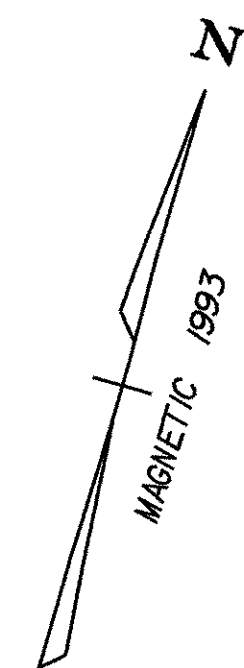
REMOVING AND RESETTING FENCE
 15+305 TO 15+323 LT
 15+366 TO 15+368 RT

STA ah 15+358 LT AND STA ah 15+362 LT
 CONSTRUCT NON-COMMERCIAL
 DRIVE WITH GRASS PLOT AND
 VERTICAL GRANITE CURB

STA ah 15+414 LT AND STA ah 15+409 LT
 CONSTRUCT NON-COMMERCIAL
 DRIVE WITH GRASS PLOT AND
 VERTICAL GRANITE CURB

REMOVAL OF EXISTING SIDEWALK
 15+363.830 TO 15+455.220 LT

TRANSPLANTING SHRUBS
 15+339 LT - ROSE BUSHES
 15+341 LT - ROSE BUSHES
 FINAL LOCATION WILL BE AT
 A MUTUALLY AGREED UPON
 LOCATION BETWEEN THE
 ENGINEER AND THE PROPERTY
 OWNER



MATCH TO SHEET 9 OF 10

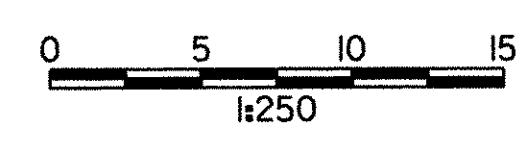
END R.O.W. PROJECT
 RS 0301-9(I) SA
 STA ah 15+456.07 7.54m. LT.

STA 15+464.139
 END PROJECT
 STP0301(I)8

STA ah 15+461.70
 MATCH EXISTING PAVEMENT

TH#3 @ P.O.T. ah 15+464.139
 ROUTE 120 P.O.T. 304+095.461
 END PROJECT

LINES SHOWN ON THIS PLAN AS EXISTING
 PROPERTY LINES (P/L) ARE BELIEVED TO
 BE ACCURATE BUT SHOULD NOT BE RELIED
 UPON FOR PURPOSES UNRELATED TO THE
 TOWN OF FRANKLIN'S ACQUISITION OF LAND
 AND RIGHTS FOR THIS PROJECT.



○ DENOTES TREE OR STUMP REMOVAL

ALL DRIVE RADII SHALL BE 6M UNLESS
 OTHERWISE NOTED PER STD B-71M

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

PROJECT NAME: HIGHGATE - FRANKLIN VILLAGE PORTION	PLOT DATE: 28-APR-2003
PROJECT NUMBER: STP RS 0301(I) SA	DESIGNED BY: SQUAD B
FILE NAME: ...85c060/design/dc060bdr.dgn	CHECKED BY: SQUAD B
PROJECT LEADER: DELLASANTA	R.O.W. SHEET 10 OF 10
DESIGNED BY: SQUAD B	SHEET 16 OF 60

CONSTRUCT DRIVE
 15+042 LT GRAVEL
 15+051 RT GRAVEL
 15+068 RT GRAVEL
 15+083 LT GRAVEL
 15+102 RT GRAVEL

VERTICAL GRANITE CURB
 33.5 15+033.9 TO 15+048.6 RT 47.8
 47.6 15+049.1 TO 15+081.4 LT 90.6
 58.9 15+083.0 TO 15+064.4 RT
 71.2 15+088.2 TO 15+100.4 RT 99.6
 97.6 15+095.0 TO 15+120.0 LT
 105.0 15+103.5 TO 15+120.0 RT

RELOCATE MAIL BOX, SINGLE SUPPORT
 15+048 LT TO 15+046 LT
 15+057 RT TO 15+053 RT (2)
 15+090 LT TO 15+091 LT RT
 15+107 RT TO 15+105 RT

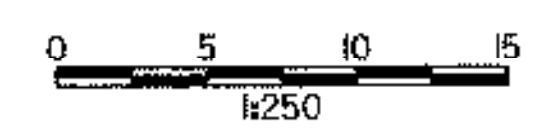
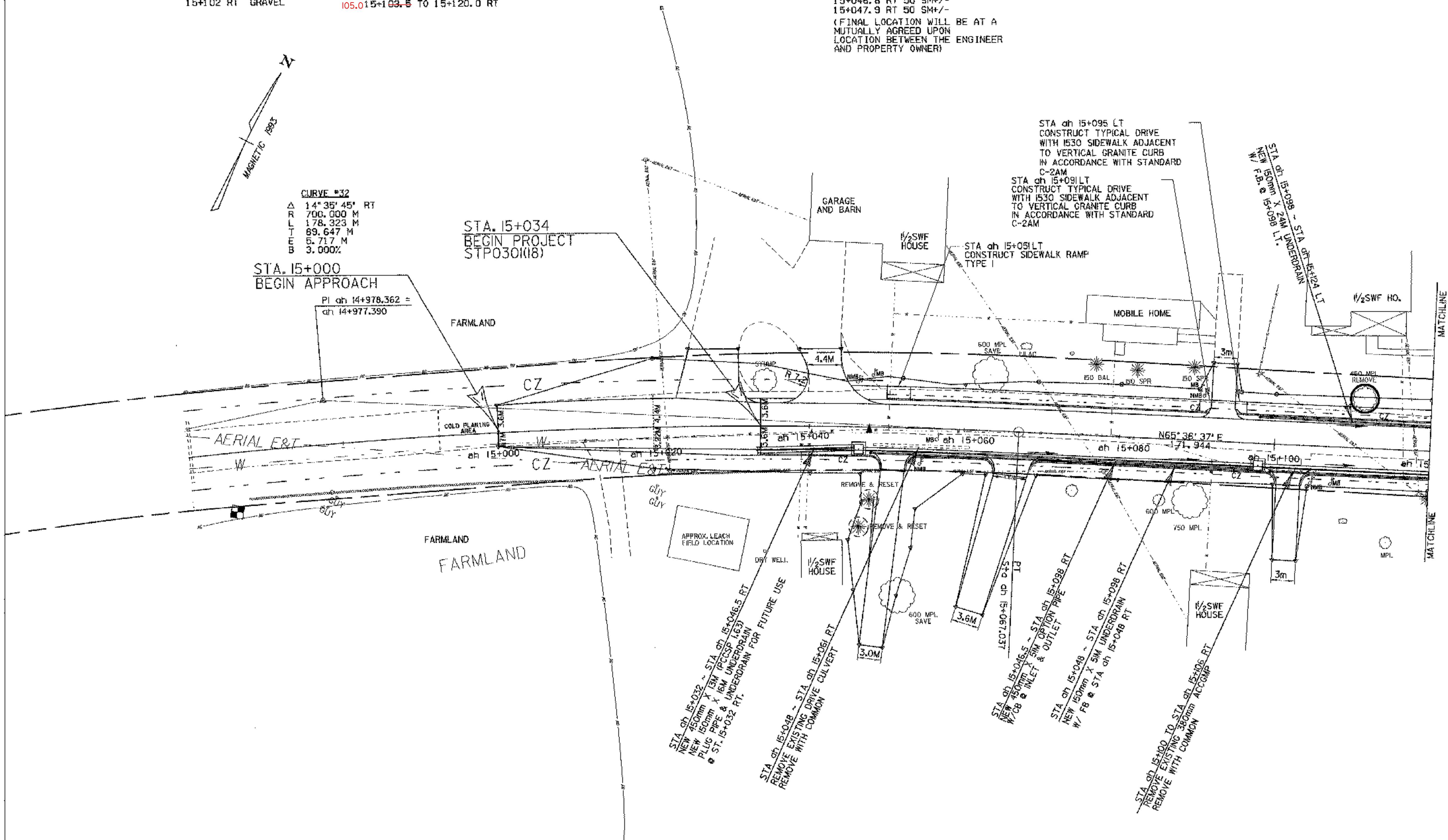
PORTLAND CEMENT CONCRETE SIDEWALK, 1530MM
 04715+051 TO 15+091 LT
 15+095 TO 15+120 LT

TRANSPLANTING TREES
 15+046.6 RT 50 SM+/-
 15+047.9 RT 50 SM+/-
 (FINAL LOCATION WILL BE AT A MUTUALLY AGREED UPON LOCATION BETWEEN THE ENGINEER AND PROPERTY OWNER)

CURVE #32
 Δ 14° 35' 45" RT
 R 700.000 M
 L 178.323 M
 T 89.647 M
 E 5.717 M
 B 3.000%

STA. 15+000
 BEGIN APPROACH
 PI ah 14+978.362 =
 ah 14+977.390

STA. 15+034
 BEGIN PROJECT
 STP030(18)



○ DENOTES TREE OR STUMP REMOVAL

ALL DRIVE RADII SHALL BE 6M UNLESS OTHERWISE NOTED PER STD B-71M

LAYOUT SHEET

PROJECT NAME:	FRANKLIN		
PROJECT NUMBER:	STP 030(18)		
FILE NAME:	85c060/design/2bdr.dgn	PLOT DATE:	24-MAR-2003
PROJECT LEADER:	DELLASANTA	DRAWN BY:	SQUAD B
DESIGNED BY:	SQUAD B	CHECKED BY:	SQUAD B
IPARM FILE NAME:	(2)dc060(01)	SHEET	17 OF 60



VERTICAL GRANITE CURB
 15+120.0 TO 15+125.2 LT
 15+120.0 TO 15+125.2 RT 157.2
 15+128.0 TO 15+133.9 LT 133.5
 15+128.0 TO 15+133.9 RT 174.8
 140.4
 15+161.8 TO 15+164.0 RT 189.6
 168.1 15+169.8 TO 15+191.8 RT 189.6
 180.2 15+179.4 TO 15+197.7 LT 214.5
 15+195.2 TO 15+216.0 RT 214.5
 003.9 SL 26+006.1 TO SL 26+037.3 LT 037.1
 036.5 SL 26+036.9 TO SL 26+047.4 RT 641.3
 SL 26+024.4 RT TO SL 15+212.4 LT
 219.6 15+214.4 TO 15+266.1 LT 263.7
 220.9 15+219.7 TO 15+260.8 RT 259.0
 265.6 15+265.5 TO 15+300.0 RT
 271.5 15+270.4 TO 15+300.0 LT
 SL 26+005.0 TO 26+025.0 RT

RELOCATE MAIL BOX, SINGLE SUPPORT
 15+140 RT 2
 15+158 RT
 15+210 RT
 15+257 RT
 15+260 RT

REMOVING AND RESETTING FENCE
 15+194 TO 15+197 LT
TRANSPLANTING SHRUBS
 15+168.6 LT - LILAC BUSH
 (FINAL LOCATION WILL BE AT A MUTUALLY AGREED UPON LOCATION BETWEEN THE ENGINEER AND PROPERTY OWNER)

STA ch 15+025 LT AND STA ch 15+029 LT
 CONSTRUCT TYPICAL DRIVE WITH 1530 SIDEWALK ADJACENT TO VERTICAL GRANITE CURB IN ACCORDANCE WITH STANDARD C-2AM

STA ch 15+175 LT AND STA ch 15+179 LT
 STA ch 15+039 LT AND STA ch 15+033 LT
 CONSTRUCT TYPICAL DRIVE WITH 1530 SIDEWALK ADJACENT TO VERTICAL GRANITE CURB IN ACCORDANCE WITH STANDARD C-2AM

STA ch 15+196 LT
 CONSTRUCT SIDEWALK RAMP TYPE I

TH#16 STA. 26+060.000
 END CONSTRUCTION
 CONSTRUCT SATISFACTORY APPROACH

PORTLAND CEMENT CONCRETE WALK

224 15+227 RT (6.0M BACK)
 224 15+227 LT (2.0M BACK)
 155 15+154 LT 3M BACK

PORTLAND CEMENT CONCRETE SIDEWALK, 1530MM

195 15+212 TO 15+300 LT

CELLAR DRAIN SHALL BE ADJUSTED AS DIRECTED BY THE RESIDENT ENGINEER TO DRAIN INTO NEW UNDERDRAIN

15+204 RT 26+013 RT 15+044 RT
 15+231 RT 15+158 LT 15+178 RT
 15+255 RT 15+158 RT

REMOVE & RESET PROPERTY MARKER

15+242.0 LT
 REMOVE EXISTING SIDEWALK
 15+154.250 (8.9M BACK) LT
 15+226.370 (6.0M BACK) LT
 15+226.570 (6.0M BACK) RT
 15+210.150 TO 15+261.40 LT

STONE FILL TYPE II
 15+278 TO 15+280 RT
 15+281.5 TO 15+283.5 RT

CURVE #33
 Δ 08° 41' 50" RT
 R 635.000 M
 L 96.391 M
 T 48.288 M
 E 1.833 M
 B 3.300%

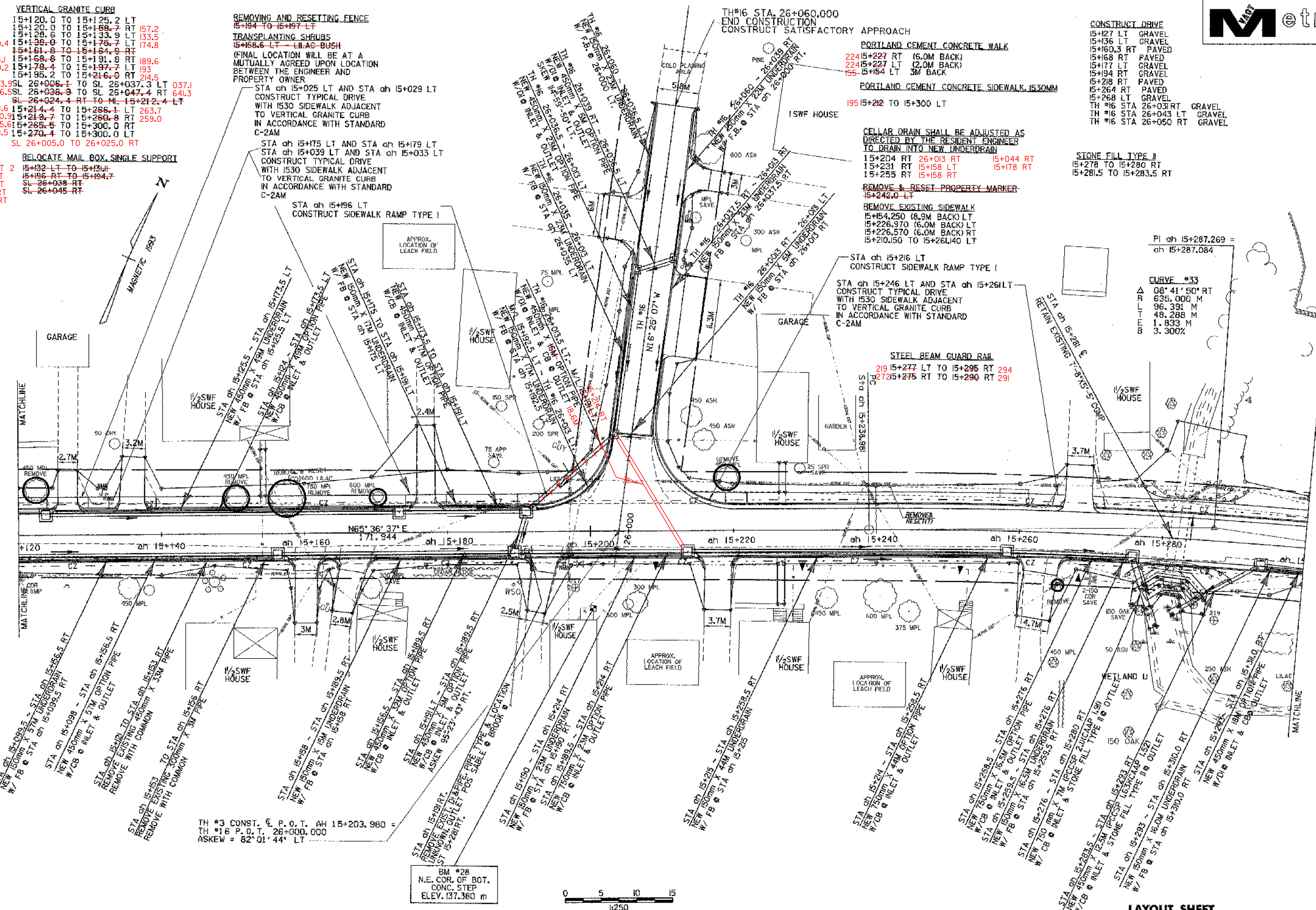
Pl ch 15+287.269 =
 ch 15+287.084

STA ch 15+216 LT
 CONSTRUCT SIDEWALK RAMP TYPE I

STA ch 15+246 LT AND STA ch 15+261 LT
 CONSTRUCT TYPICAL DRIVE WITH 1530 SIDEWALK ADJACENT TO VERTICAL GRANITE CURB IN ACCORDANCE WITH STANDARD C-2AM

STEEL BEAM GUARD RAIL

219 15+277 LT TO 15+295 RT 294
 272 15+275 RT TO 15+290 RT 291



TH #3 CONST. C. P. O. T. AH 15+203.980 =
 TH #16 P. O. T. 26+000.000
 ASKEW = 82° 01' 44" LT

BM #28
 N.E. COR. OF BOT.
 CONC. STEP
 ELEV. 137.380 m

○ DENOTES TREE OR STUMP REMOVAL

ALL DRIVE RADII SHALL BE 6M UNLESS OTHERWISE NOTED PER STD B-71M

LAYOUT SHEET

PROJECT NAME:	FRANKLIN
PROJECT NUMBER:	STP 030(18)
FILE NAME:	85c060/deslayr/2bdr.dgn
PLOT DATE:	18-APR-2003
PROJECT LEADER:	DELLASANTA
DRAWN BY:	SQUAD B
DESIGNED BY:	SQUAD B
CHECKED BY:	SQUAD B
IPARM FILE NAME:	12dc060102.1
SHEET	18 OF 60

VERTICAL GRANITE CURB

15+300.0	TO	15+328.8	LT	324.1
15+300.0	TO	15+313.8	RT	312.2
15+317.9	TO	15+338.0	RT	334.3
15+322.5	TO	15+338.0	RT	356.4
15+341.4	TO	15+410.1	LT	376.0
15+380.6	TO	15+398.2	RT	395.9
15+401.5	TO	15+408.6	RT	408.1
15+413.9	TO	15+458.7	LT	
15+423.2	TO	15+458.9	RT	458.0
15+36.25 TO 15+408.7 LT				

PORTLAND CEMENT CONCRETE SIDEWALK (530MM)
15+300 TO 15+458 LT 454

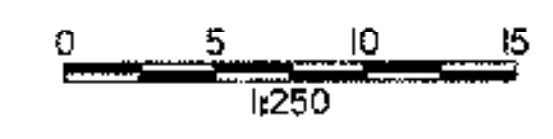
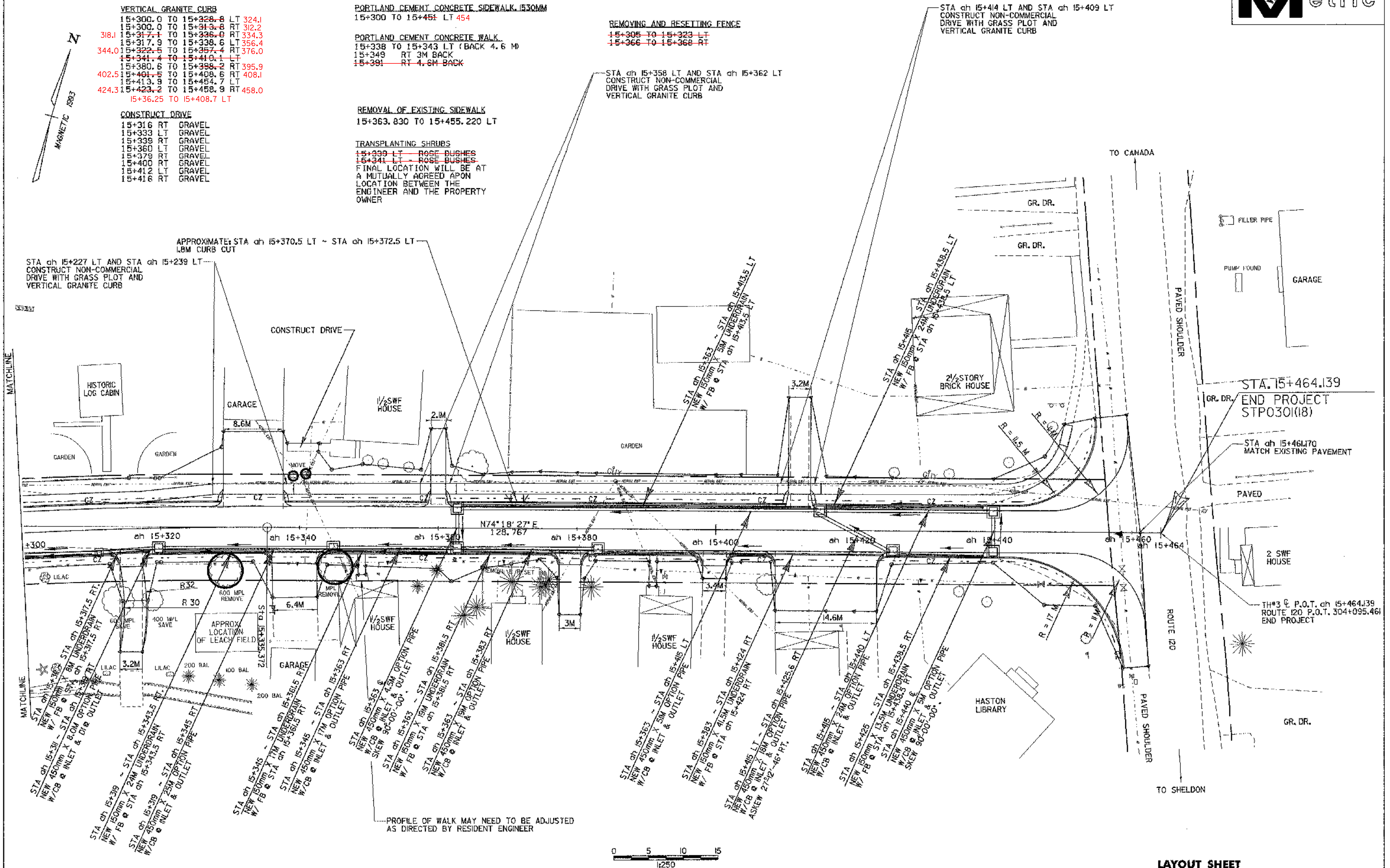
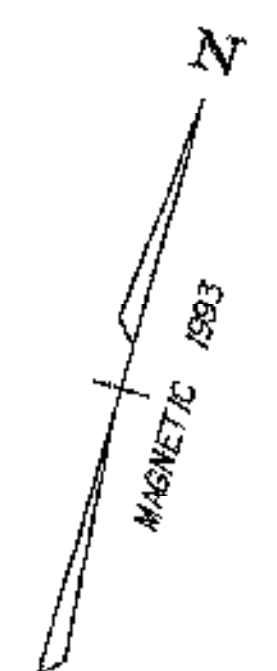
PORTLAND CEMENT CONCRETE WALK
15+338 TO 15+343 LT (BACK 4.6 M)
15+349 RT 3M BACK
15+391 RT 4.6M BACK

REMOVING AND RESETTING FENCE
15+305 TO 15+323 LT
15+366 TO 15+368 RT

REMOVAL OF EXISTING SIDEWALK
15+363.830 TO 15+455.220 LT

TRANSPLANTING SHRUBS
15+339 LT ROSE BUSHES
15+341 LT ROSE BUSHES
FINAL LOCATION WILL BE AT A MUTUALLY AGREED UPON LOCATION BETWEEN THE ENGINEER AND THE PROPERTY OWNER

CONSTRUCT DRIVE
15+316 RT GRAVEL
15+333 LT GRAVEL
15+339 RT GRAVEL
15+360 LT GRAVEL
15+379 RT GRAVEL
15+400 RT GRAVEL
15+412 LT GRAVEL
15+416 RT GRAVEL

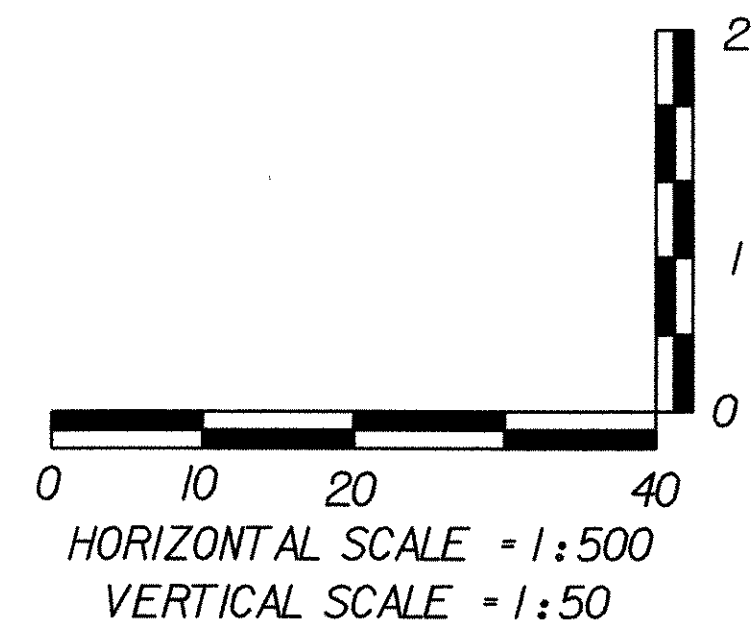
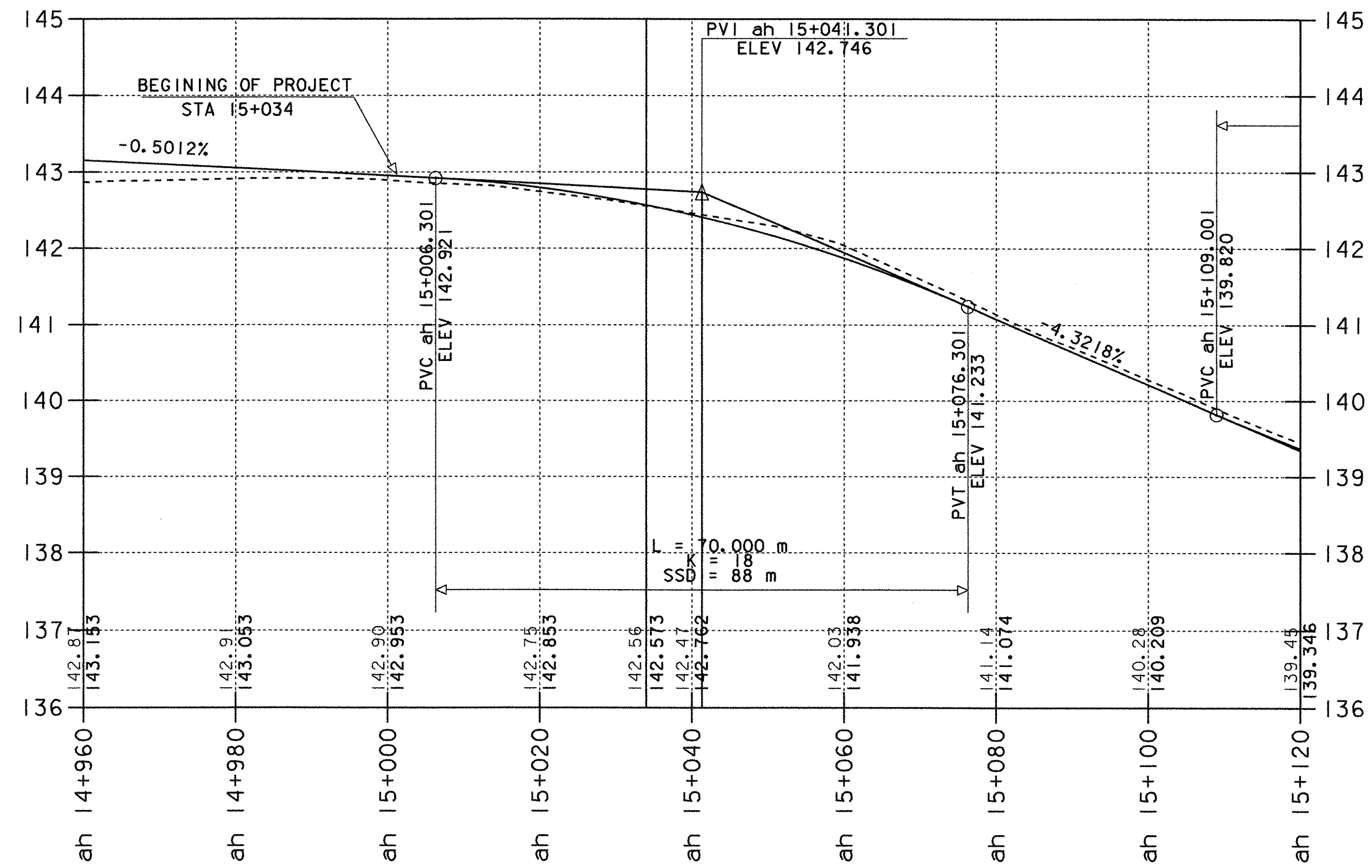


○ DENOTES TREE OR STUMP REMOVAL

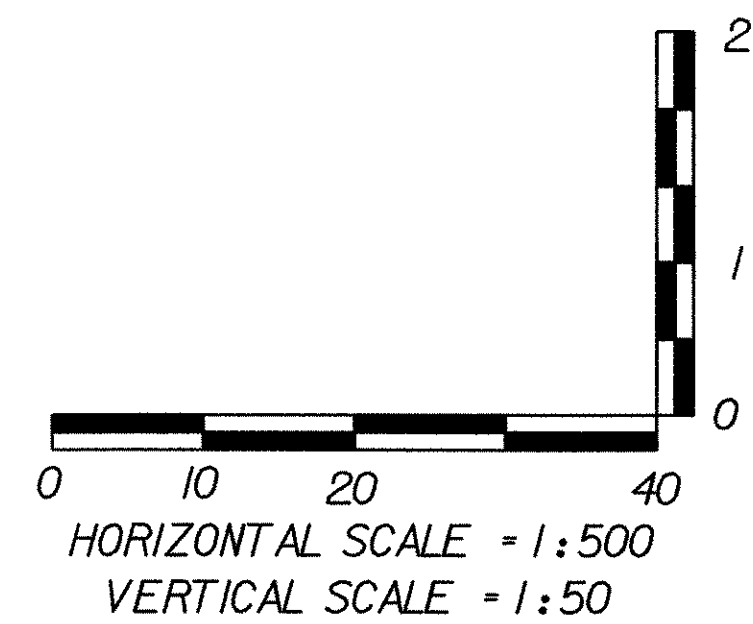
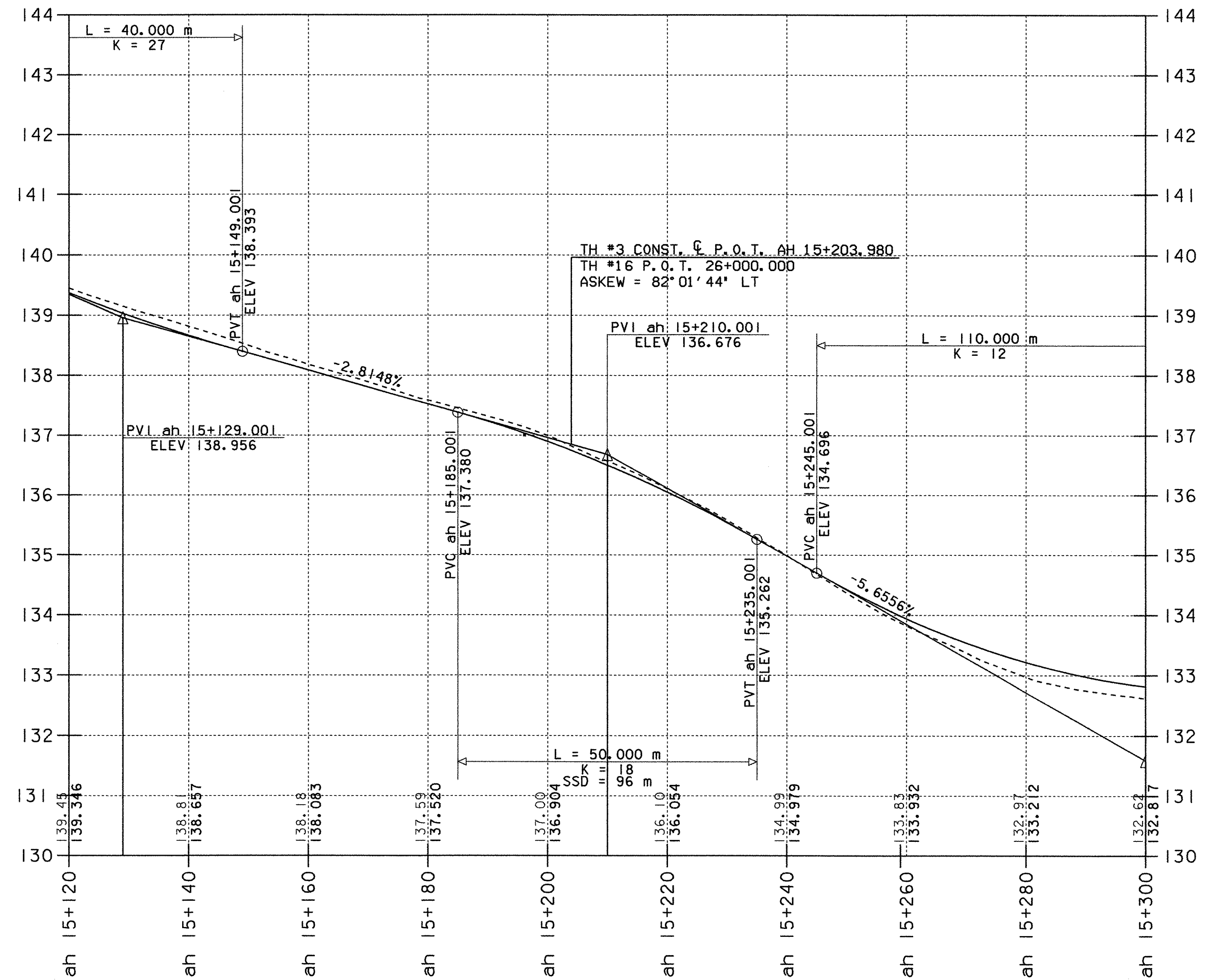
ALL DRIVE RADII SHALL BE 5M UNLESS OTHERWISE NOTED PER STD B-71M

LAYOUT SHEET

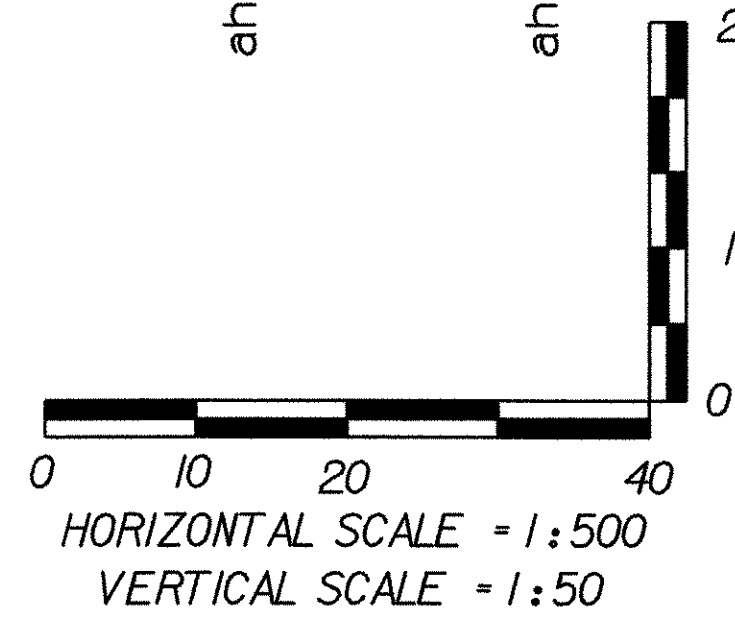
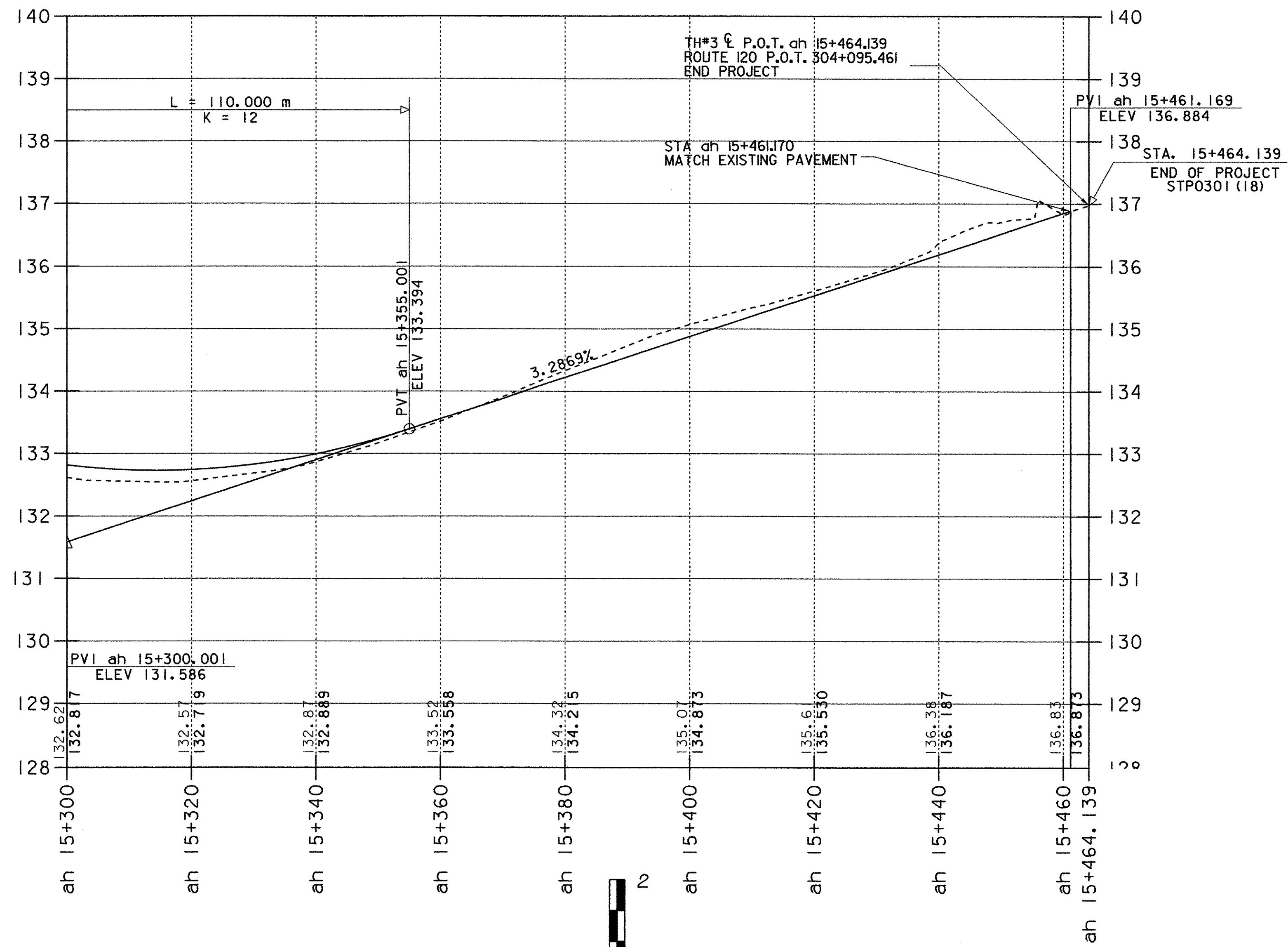
PROJECT NAME:	FRANKLIN
PROJECT NUMBER:	STP 030(18)
FILE NAME:	85c060/design/2bdr.dgn
PLOT DATE:	24-MAR-2003
PROJECT LEADER:	DELLASANTA
DRAWN BY:	SQUAD B
DESIGNED BY:	SQUAD B
CHECKED BY:	SQUAD B
IPARM FILE NAME:	(2)dc06013.1
SHEET	19 OF 60



PROJECT NAME:	FRANKLIN
PROJECT NUMBER:	STP 0301(18)
FILE NAME:	...85c060/design/dc060xsl.dgn
PROJECT LEADER:	DELLASANTA
DESIGNED BY:	SQUAD B
IPARM FILE NAME:	(2)dc060p01
PLOT DATE:	24-MAR-2003
DRAWN BY:	SQUAD B
CHECKED BY:	SQUAD B
SHEET	20 OF 60

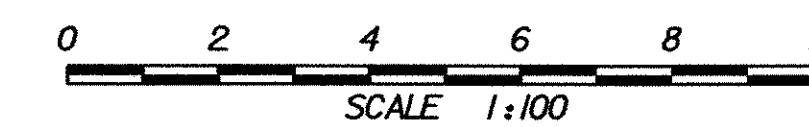
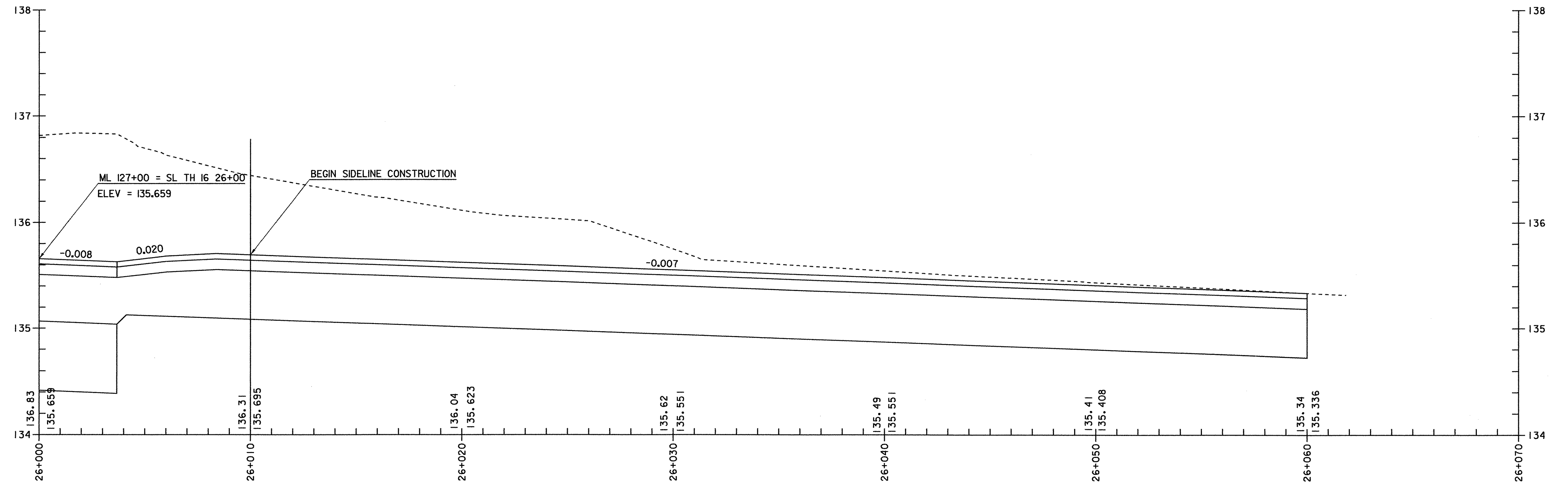


PROJECT NAME:	FRANKLIN
PROJECT NUMBER:	STP 0301(18)
FILE NAME:	...85c060/design/dc060xsl.dgn
PROJECT LEADER:	DELLASANTA
DESIGNED BY:	SQUAD B
IPARM FILE NAME:	(2)dc060p02.l
PLOT DATE:	24-MAR-2003
DRAWN BY:	SQUAD B
CHECKED BY:	SQUAD B
SHEET	21 OF 60



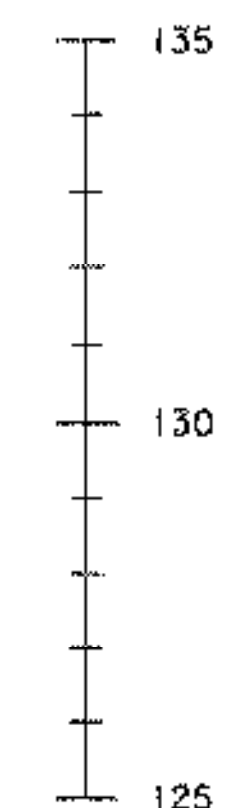
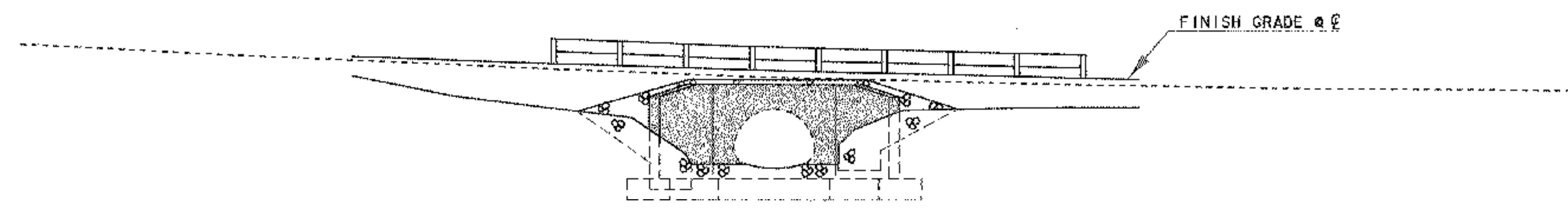
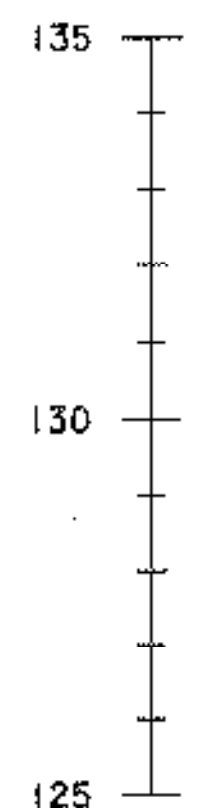
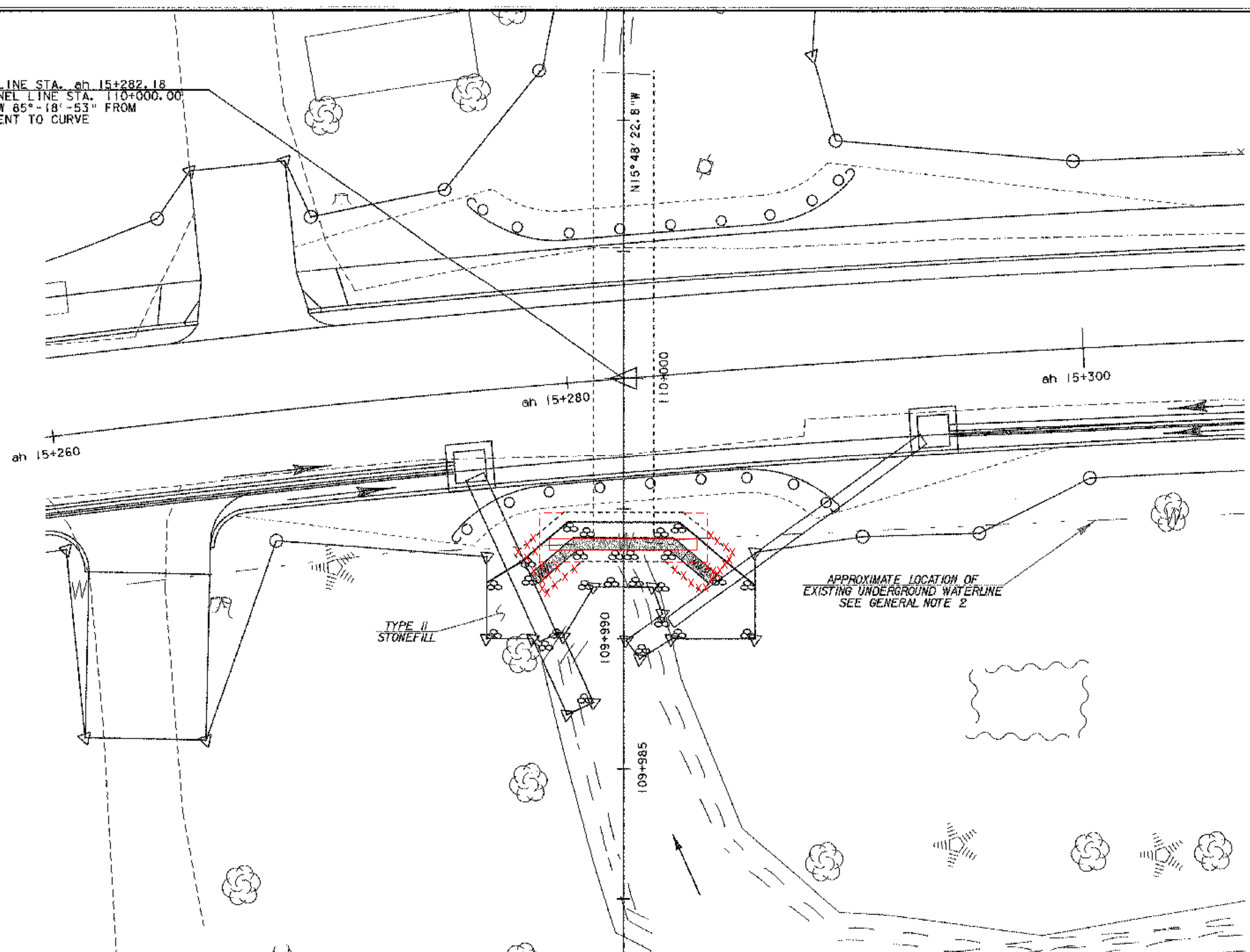
PROJECT NAME:	FRANKLIN
PROJECT NUMBER:	STP 0301(18)
FILE NAME:	...85c060/desgn/dc060xsl.dgn
PROJECT LEADER:	DELLASANTA
DESIGNED BY:	SQUAD B
IPARM FILE NAME:	(2)dc060p03.1
PLOT DATE:	24-MAR-2003
DRAWN BY:	SQUAD B
CHECKED BY:	SQUAD B
SHEET	22 OF 60

TH #16 PROFILE



PROJECT NAME:	FRANKLIN
PROJECT NUMBER:	STP 030I(18)
FILE NAME:	...85c060\design\dc060x12.dgn
PROJECT LEADER:	DELLASANTA
DESIGNED BY:	SQUAD B
IPARM FILE NAME:	(2)dc060p04.1
PLOT DATE:	20-MAR-2003
DRAWN BY:	SQUAD B
CHECKED BY:	SQUAD B
SHEET	23 OF 60

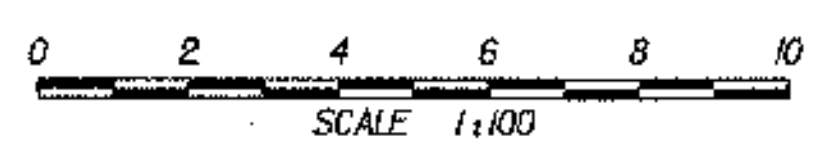
MAINLINE STA. $ah\ 15+282.18$
 CHANNEL LINE STA. $110+000.00$
 ASKEW $85^{\circ}-18'-53''$ FROM
 TANGENT TO CURVE



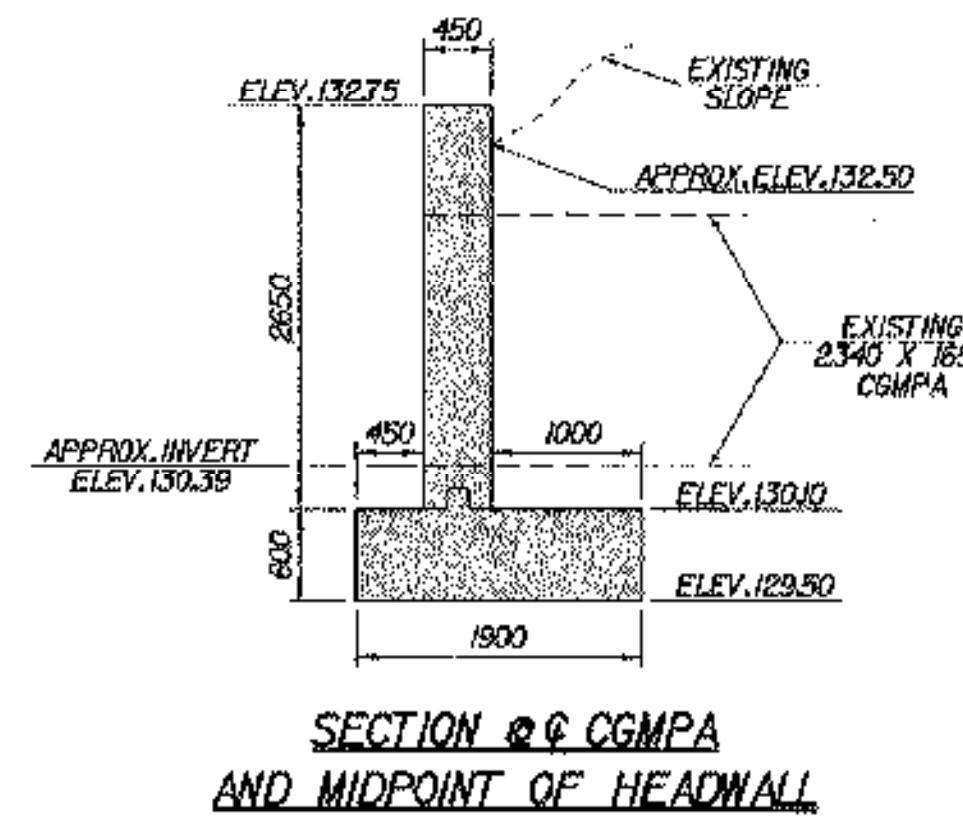
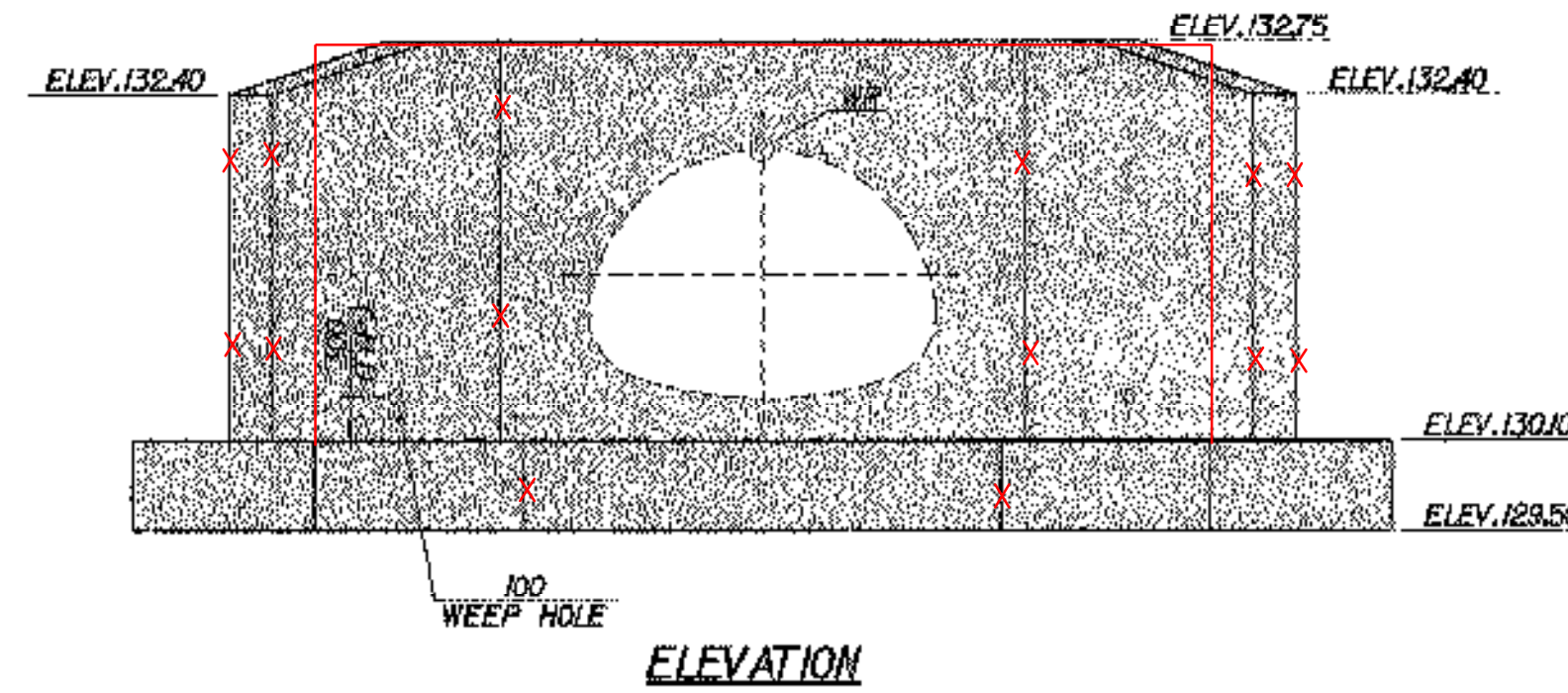
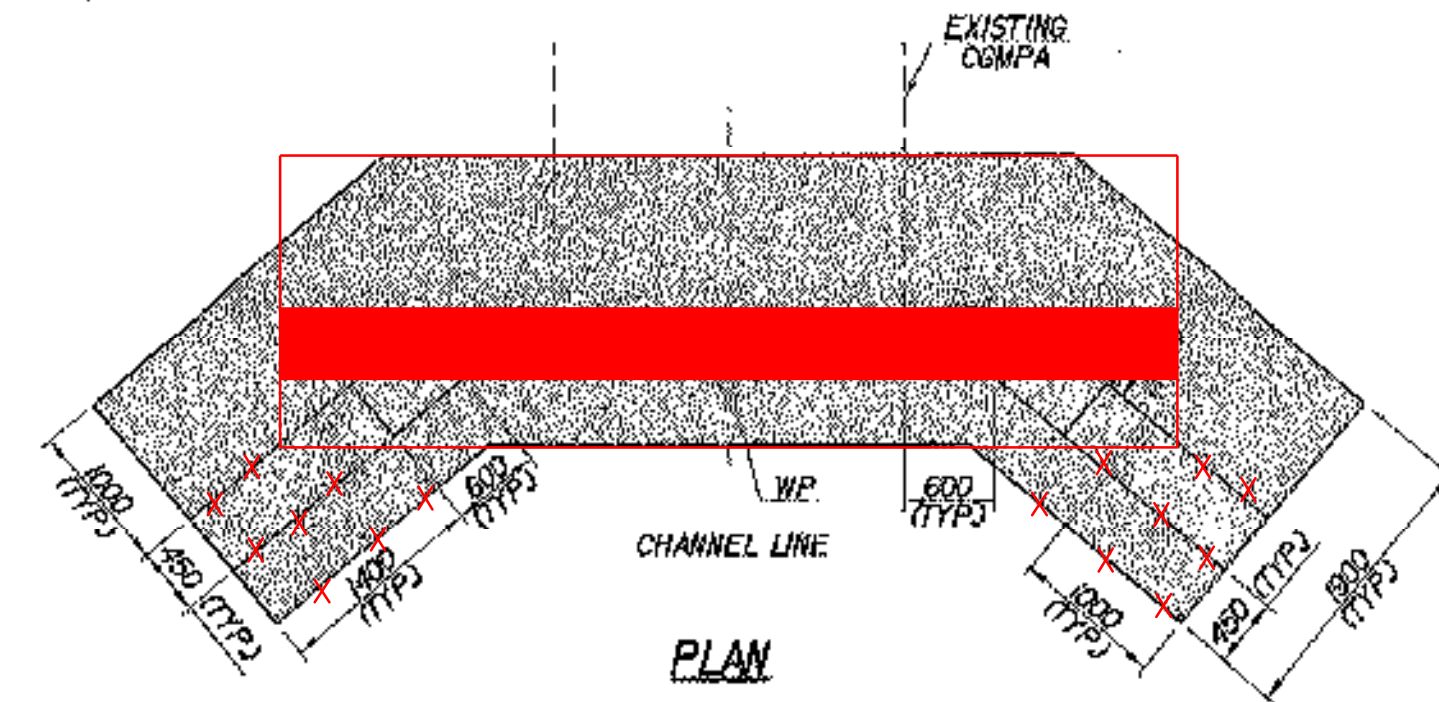
ELEVATION VIEW

PLAN AND ELEVATION SHEET

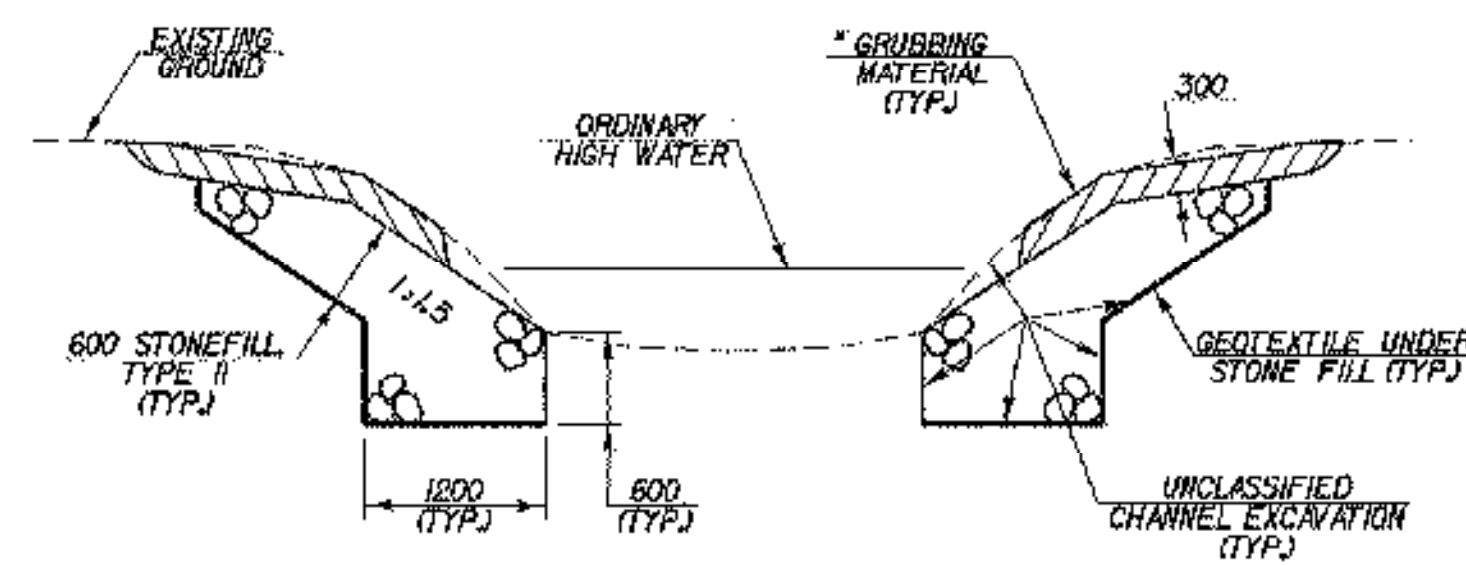
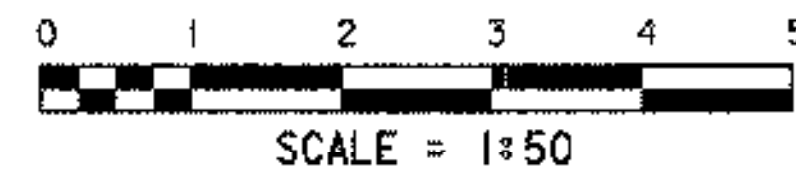
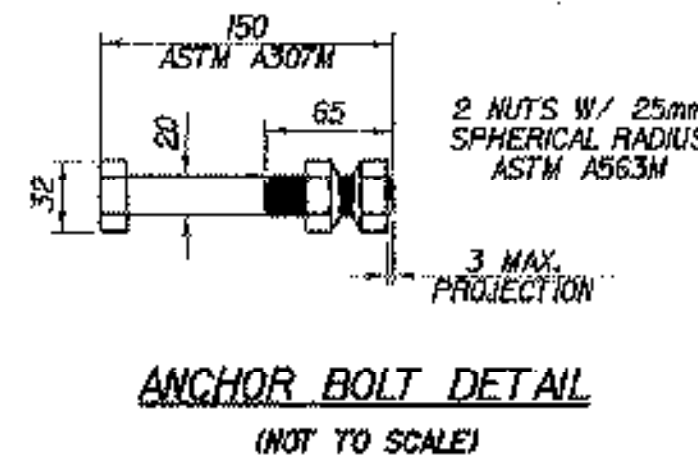
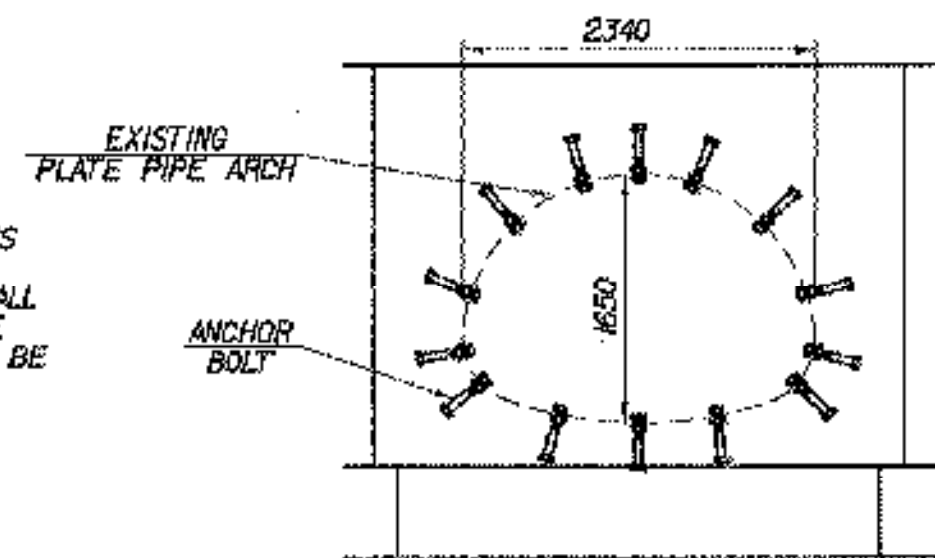
PROJECT NAME:	FRANKLIN	PLOT DATE:	21-MAR-2003
PROJECT NUMBER:	STP 030(18)	DRAWN BY:	R. PELLETT
FILE NAME:	/85c060/stt/sc85c060bdr.dg	CHECKED BY:	G. SPILAK
PROJECT LEADER:	S. FARNSWORTH	SHEET 24	OF 60
DESIGNED BY:	M. FOWLER		
sc060pel5282.l			



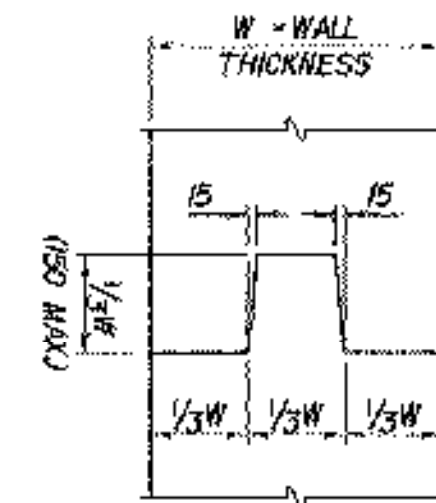
• CHANGE TO STRAIGHTEN HEADWALL
BECAUSE OF WATERLINE CONFLICT



1- FROM GALVANIZED ANCHOR BOLTS SPACED IN ALTERNATE CIRCUMFERENTIAL SEAM HOLES (ACTUAL ANCHOR BOLT SPACING TO BE DETERMINED IN THE FIELD). THE COST OF ALL WORK AND MATERIALS ASSOCIATED WITH THE INSTALLATION OF THE ANCHOR BOLTS SHALL BE INCLUDED IN THE COST OF CONCRETE, HIGH PERFORMANCE CLASS B.



* GRUBBING MATERIAL SHALL NOT BE PLACED ON THE STONE FILL FROM THE END WINGWALLS TO COMPA INLET. WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.



GENERAL NOTES

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2001, AND THE LATEST AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.
- THE APPROXIMATE HORIZONTAL LOCATION OF AN EXISTING FRANKLIN VILLAGE WATERLINE IS SHOWN ON THE PLANS WITHIN THE PROPOSED CONSTRUCTION AREA OF THE HEADWALL. THERE HAS BEEN NO VERIFICATION OF THE LOCATION, EITHER HORIZONTALLY OR VERTICALLY, ASSOCIATED WITH THIS WATERLINE CROSSING AND IT HAS BEEN ASSUMED THERE WILL BE NO CONFLICT WITH THE PROPOSED FOOTING ELEVATION. IF DURING CONSTRUCTION IT IS FOUND THIS ASSUMPTION IS INCORRECT THE PROJECT MANAGER SHALL BE CONTACTED IMMEDIATELY WITH ALL PERTINENT DETAILS TO DETERMINE AN APPROPRIATE COURSE OF ACTION. ITEMS HAVE BEEN INCLUDED ON THE CONTRACT TO RELOCATE THE WATERLINE IF RELOCATION IS DETERMINED TO BE THE ONLY VIABLE OPTION.
- IN-STREAM CONSTRUCTION SHALL BE RESTRICTED TO JUNE 1 TO OCTOBER 1, UNLESS THE CONTRACTOR OBTAINS WRITTEN PERMISSION FROM THE AGENCY OF NATURAL RESOURCES TO DO WORK OUTSIDE OF THAT TIME FRAME.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT SILTATION OR POLLUTION, ESPECIALLY THE DISCHARGE OF RAW CONCRETE, INTO ANY BROOK, STREAM, OR RIVER.
- WHEN CONSTRUCTION MACHINERY IS WORKING OVER THE EXISTING PIPE, THE CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF 1000 mm OF COMPACTED MATERIAL.
- LIMITS OF THE COFFERDAM SHALL BE DETERMINED BY THE CONTRACTOR. PAY LIMITS FOR COFFERDAM EXCAVATION, EARTH AND COFFERDAM EXCAVATION, ROCK SHALL BE 600 mm OUTSIDE THE PERIMETER OF THE FOOTING. IF A COFFERDAM IS CONSTRUCTED WHICH IS LARGER THAN THE COFFERDAM EXCAVATION PAY LIMITS, PAYMENT FOR ALL UNCLASSIFIED CHANNEL EXCAVATION, INCLUDING THAT PORTION WHICH IS INSIDE THE COFFERDAM BUT OUTSIDE THE COFFERDAM EXCAVATION PAY LIMITS, WILL BE MADE AT THE CONTRACT UNIT PRICE FOR UNCLASSIFIED CHANNEL EXCAVATION.
- ITEM 208.30, COFFERDAM SHALL INCLUDE ALL NECESSARY WORK REQUIRED TO SAFELY CONSTRUCT THE FOUNDATION, FOOTING HEADWALL, AND WINGWALLS IN THE DRY. ANY AND ALL WORK ASSOCIATED WITH THE TEMPORARY WATER DIVERSION REQUIRED DURING CONSTRUCTION SHALL BE INCLUDED IN THE COST OF THIS ITEM. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE AND EROSION CONTROL PLAN BEFORE WORK MAY BEGIN.
- THE FOLLOWING TABLE OF ALLOWABLE STRESSES AND WEIGHTS APPLY TO THESE PLANS FOR DESIGN PURPOSES:

CONCRETE, HIGH PERFORMANCE CLASS B:	$f'_c = 25 \text{ MPa}$	$f_c = 10 \text{ MPa}$
REINFORCING STEEL:	$F_t = 166 \text{ MPa}$	GRADE 420
SOIL UNIT WEIGHT:	2250 kg/m ³	
DESIGN LOAD FOR SPREAD FOOTINGS ON SOIL:	190 kPa	
- THE KEY IN CONCRETE CONSTRUCTION JOINTS SHALL BE MONOLITHIC AND CONTINUOUS FOR THE FULL LENGTH OF THE JOINT, ANY UPWARD KEY SHALL BE PLACED INTEGRALLY WITH THE CONCRETE BELOW THE JOINT.
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 25mm BY 25mm.
- JOINTS AND SCORE MARKS IN CONCRETE SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ALL REINFORCING STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).

REINFORCING PLACEMENT TOLERANCES SHALL BE:	
SPACING	+/- 25 mm
CLEARANCE	+/- 5 mm
- MINIMUM COVER FOR REINFORCING STEEL SHALL BE FIFTY (50) MILLIMETERS ALONG THE BACK FACES OF WALLS AGAINST EARTH, AND EIGHTY (80) MILLIMETERS ELSEWHERE, UNLESS OTHERWISE NOTED.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY IN THE FIELD ALL EXISTING DIMENSIONS IN THE PLANS. ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 20 DEGREES CELSIUS UNLESS OTHERWISE NOTED.

ESTIMATED QUANTITIES

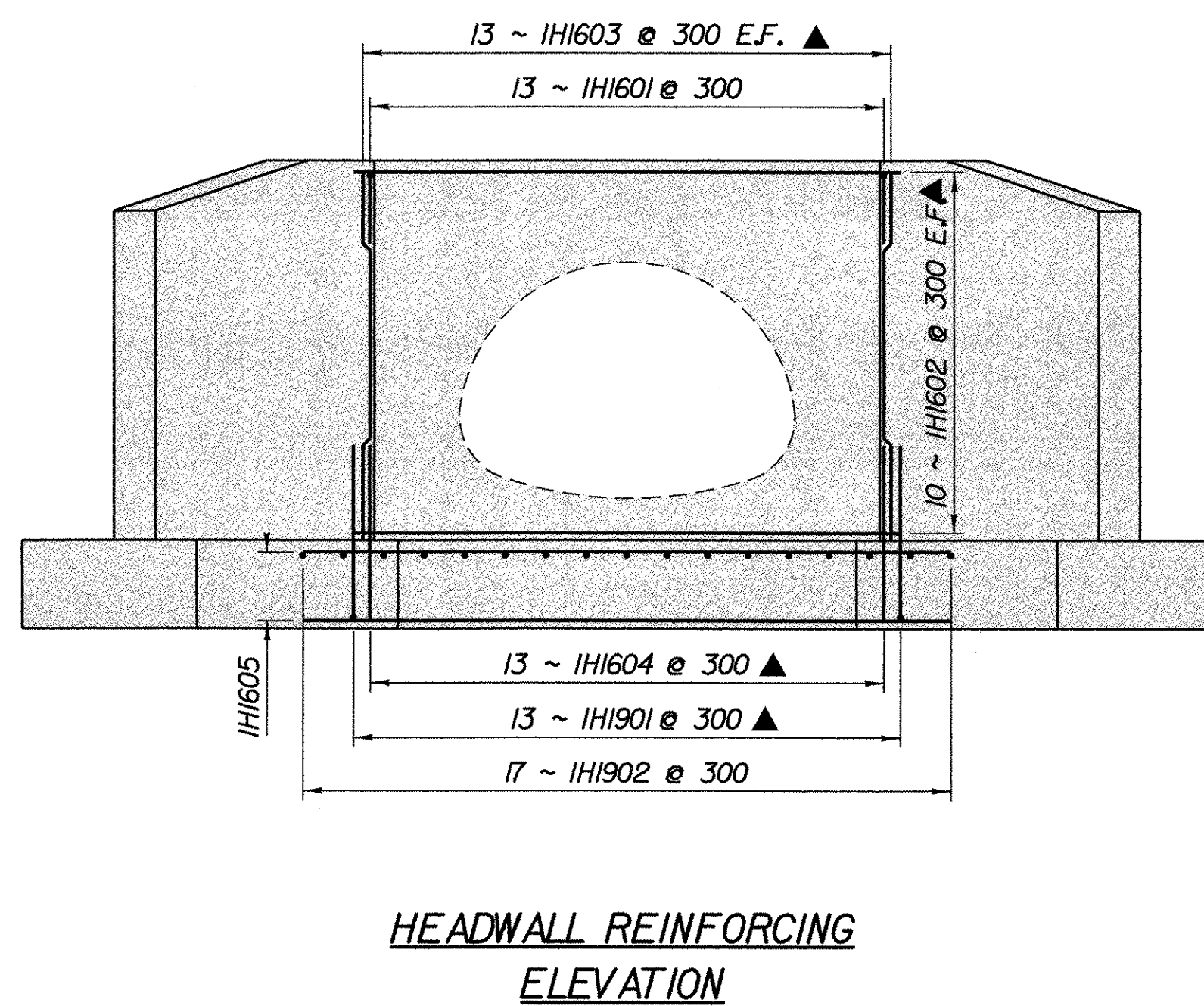
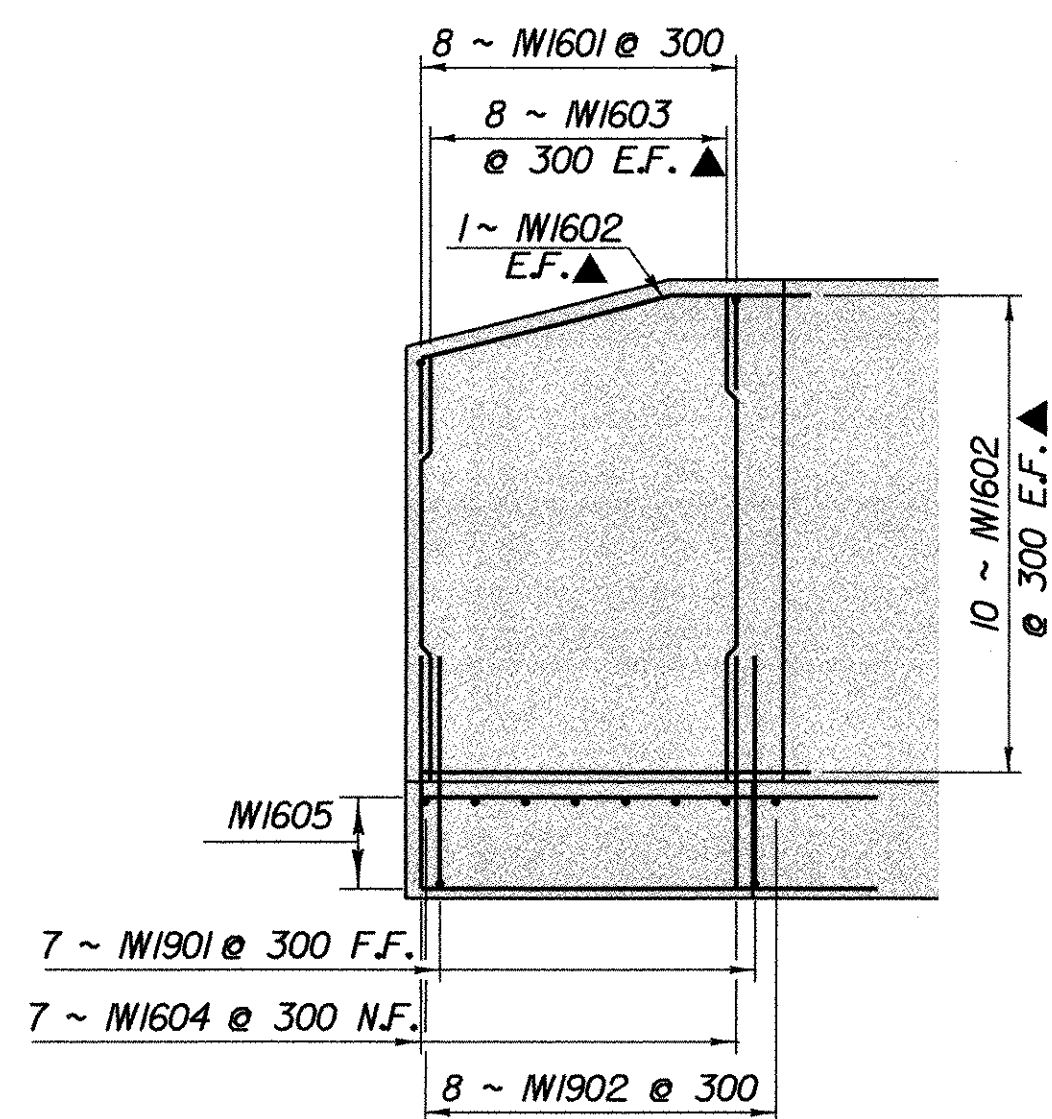
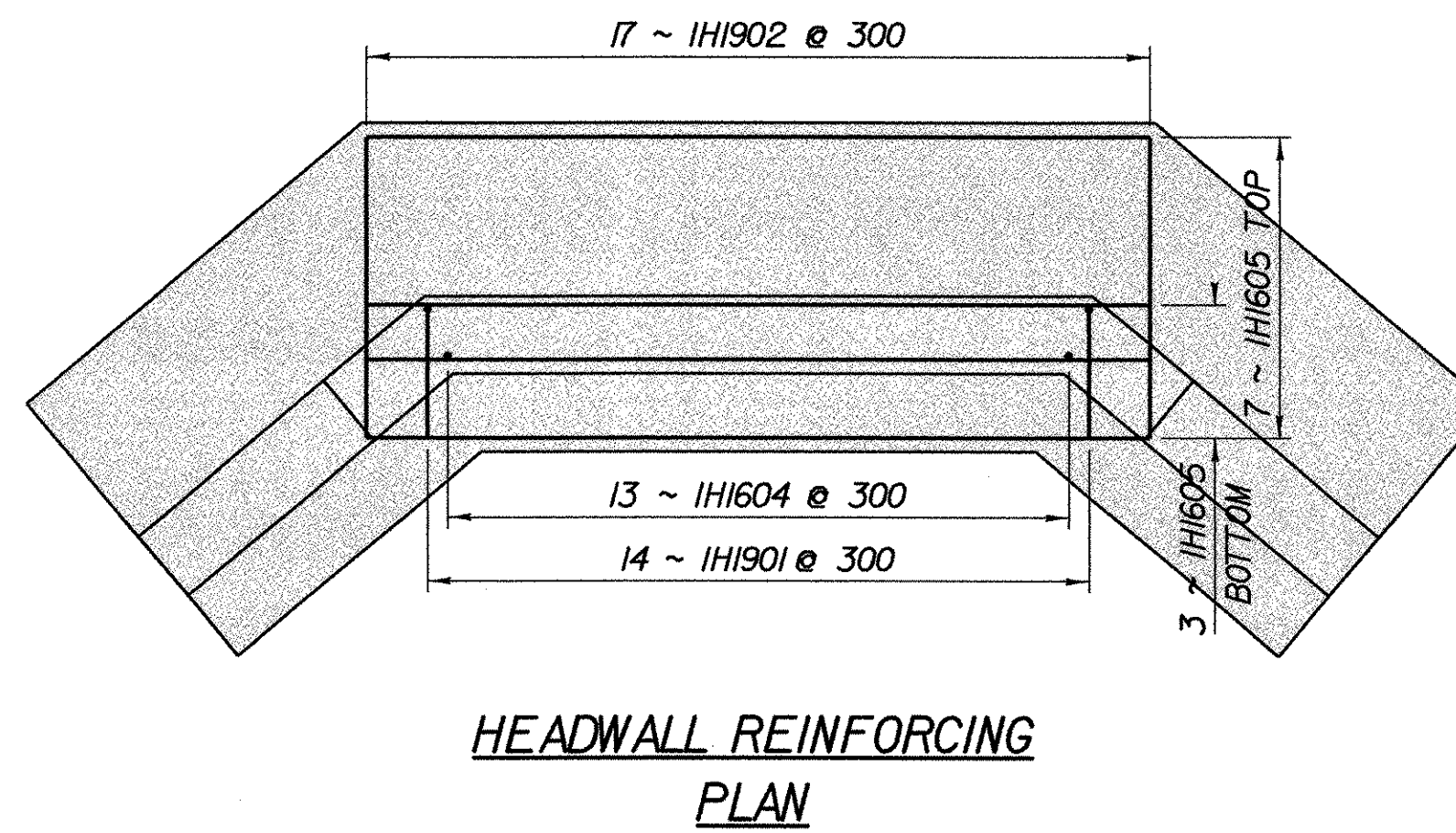
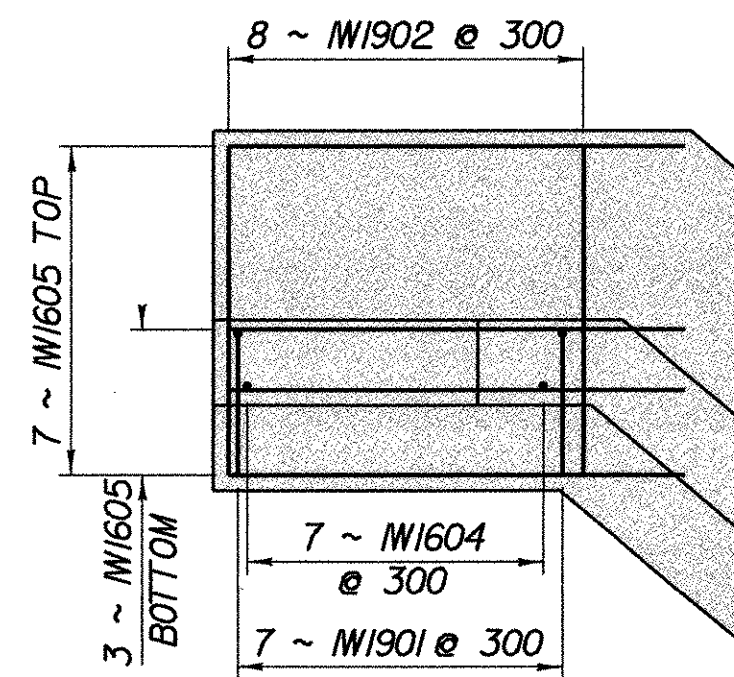
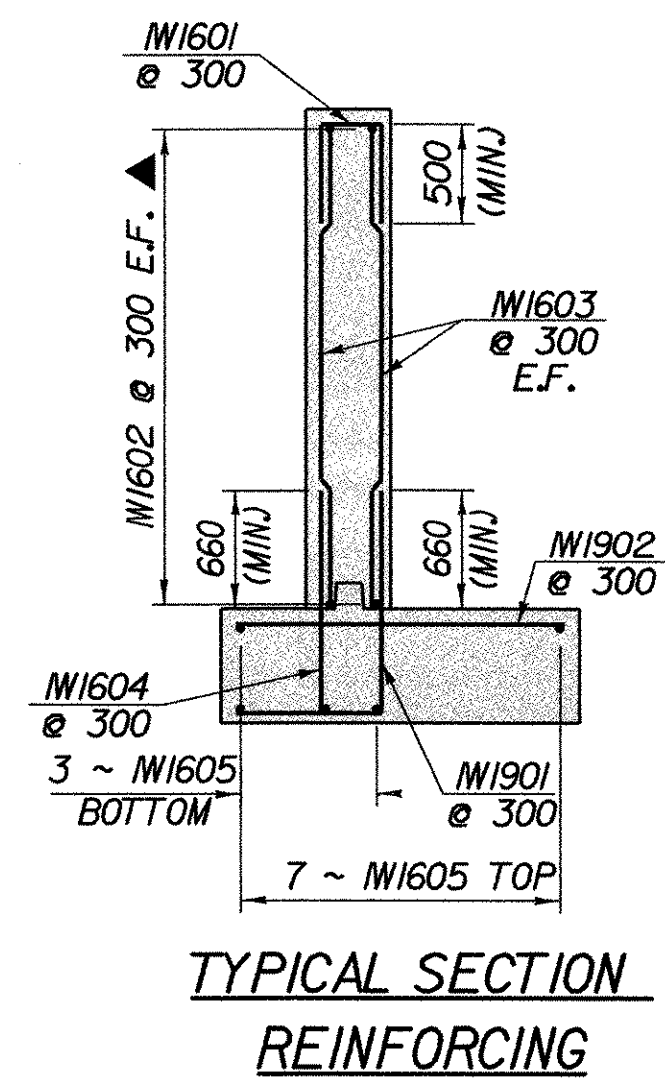
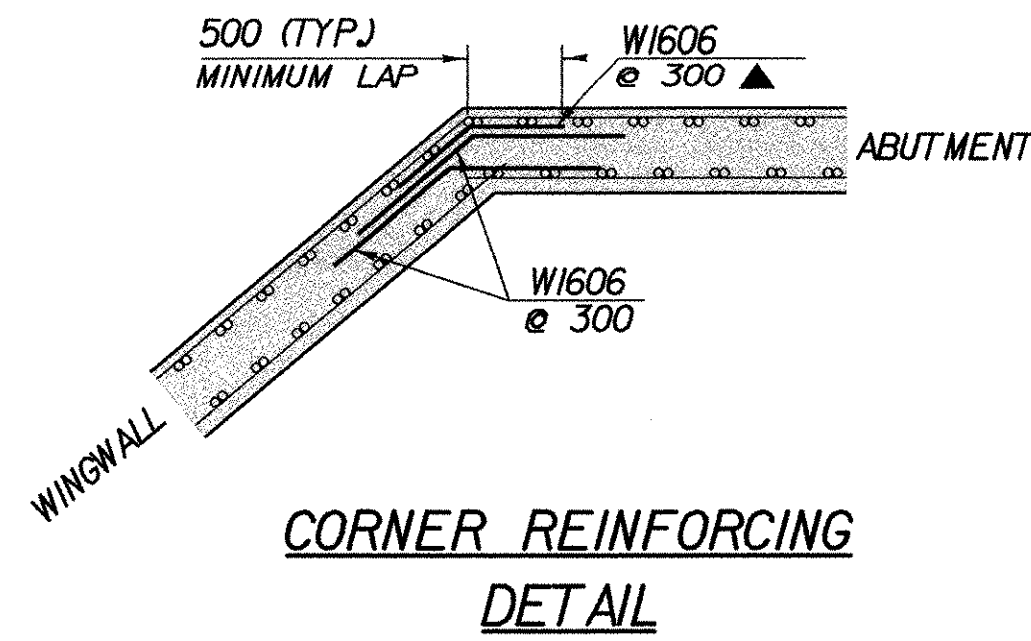
NO.	ITEM	UNIT	TOTAL	FINAL
203.27	UNCLASSIFIED CHANNEL EXCAVATION	CM	10	23
204.30	GRANULAR BACKFILL FOR STRUCTURES	CM	55	43.1
208.30	COFFERDAM EXCAVATION, EARTH	CM	70	52
208.35	COFFERDAM EXCAVATION, ROCK	CM	5	4.5
208.40	COFFERDAM	LS	1	1
501.34	CONCRETE, HIGH PERFORMANCE CLASS B	CM	18	15.13
507.15	REINFORCING STEEL	KG	1300	1266
514.10	WATER REPELLENT	L	6	6
613.11	STONE FILL, TYPE II	CM	21	23
649.31	GEOTEXTILE UNDER STONE FILL	SM	40	38
651.40	GRUBBING MATERIAL	SM	25	25

HYDRAULIC DATA

DRAINAGE AREA = 360 HA	DESIGN FLOW = Q25
DESIGN TAILWATER DEPTH = 1.6 M	ELEVATION = 132.0
ORDINARY HIGH WATER DEPTH = 0.5 M +/-	
Q 2.33 FLOW = 2.1 CM/S	HEADWATER ELEVATION = 131.3
Q 10 FLOW = 4.1 CM/S	HEADWATER ELEVATION = 131.7
Q 25 FLOW = 5.2 CM/S	HEADWATER ELEVATION = 132.0
Q 50 FLOW = 6.4 CM/S	HEADWATER ELEVATION = 132.2
Q 100 FLOW = 7.2 CM/S	HEADWATER ELEVATION = 132.4
COMMENTS: DEPTHS ARE APPROXIMATE BASED ON INLET CONTROL ANALYSIS.	

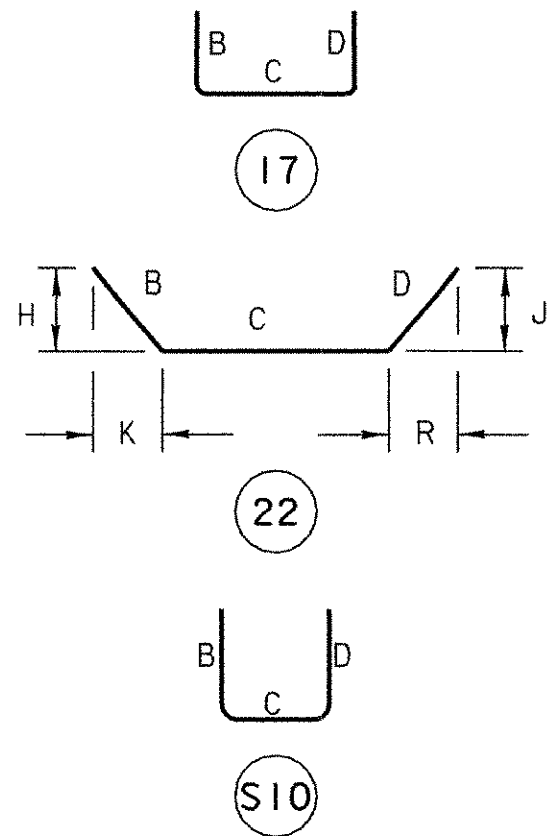
PROJECT NAME: FRANKLIN
PROJECT NUMBER: STP 030(18)

FILE NAME: /str/85c060/s85c060ww.dgn PLOT DATE: 21-MAR-2003
PROJECT LEADER: S. FARNSWORTH DRAWN BY: R. PELLETT
DESIGNED BY: M. FOWLER CHECKED BY: G. SPILAK
s060ww15282.1 SHEET 25 OF 60



REINFORCING STEEL NOTES

- UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING 55M SHALL CONFORM TO THE REQUIREMENT 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.
- 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".
- "J" DIMENSION ON 180 DEGREE HOOKS ARE TO BE SHOWN ONLY WHEN NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
- "H" DIMENSION ON STIRRUPS ARE TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
- WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
- ▲ DENOTES BARS TO BE CUT IN FIELD.

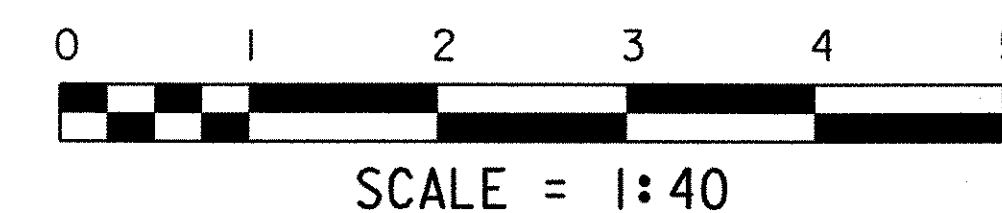


REINFORCING STEEL SCHEDULE

NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	H	J	K	R
58	16	3.83 ▲	W1602	STR	3.83							
50	16	2.57 ▲	W1603	STR	2.57							
27	16	1.21 ▲	W1604	STR	1.21							
30	16	4.53 ▲	W1605	STR	4.53							
33	19	1.74	W1902	STR	1.74							
28	19	1.98 ▲	W1901	17		0.77	1.21	—				
60	16	1.60 ▲	W1606	22		0.80	0.80	—	0.51	—	0.61	—
29	16	1.32	W1601	S10		0.50	0.32	0.50				

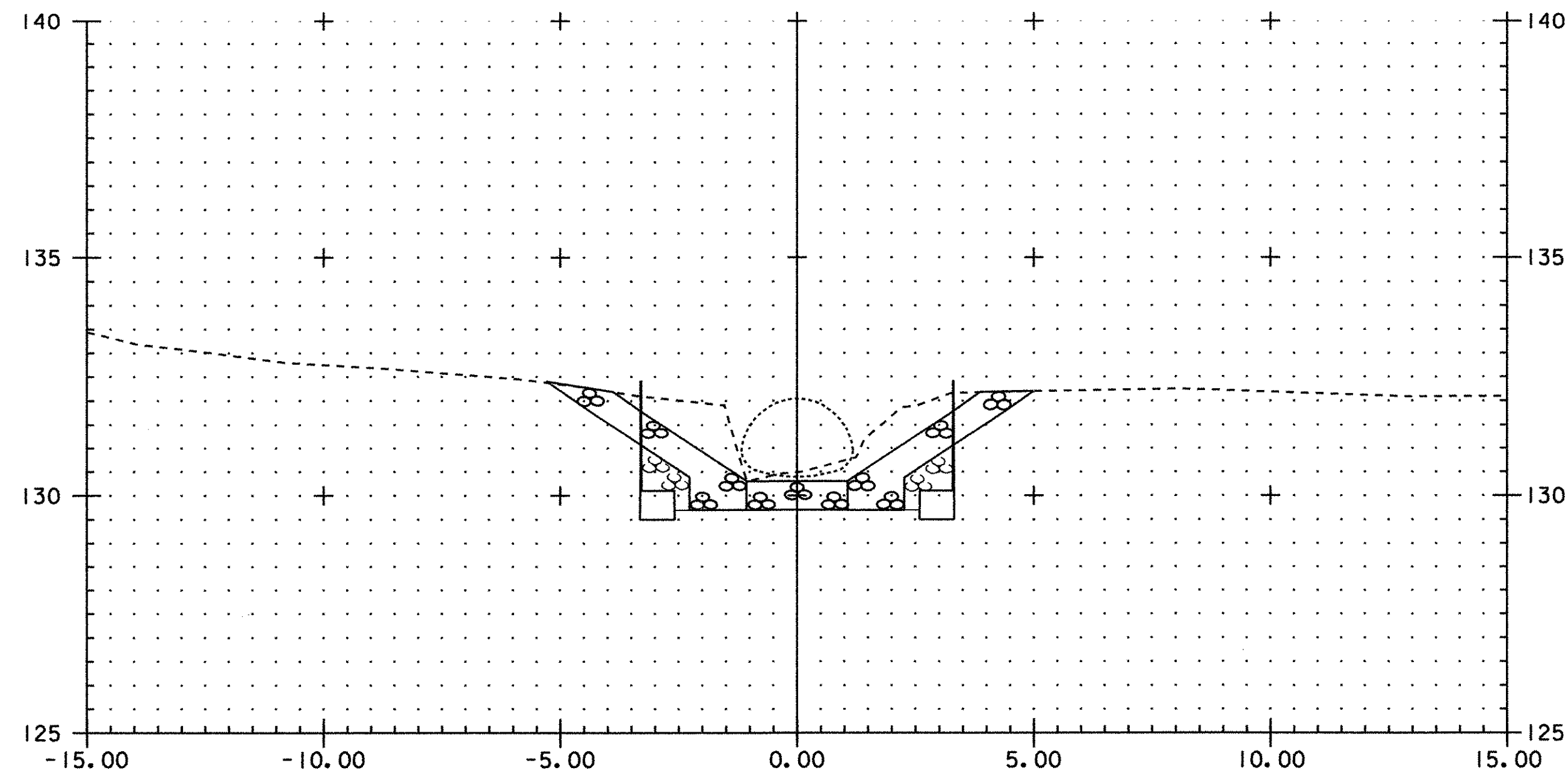
NOTE:

- REINFORCING STEEL LENGTHS IN METERS
- CUT BAR LENGTHS REUSED IN APPROPRIATE PLACES
- NF = NEAR FACE
- FF = FAR FACE
- EF = EACH FACE
- ▲ = CUT TO FIT IN FIELD
- 75 CLR. UNLESS OTHERWISE SPECIFIED ON THE PLANS.

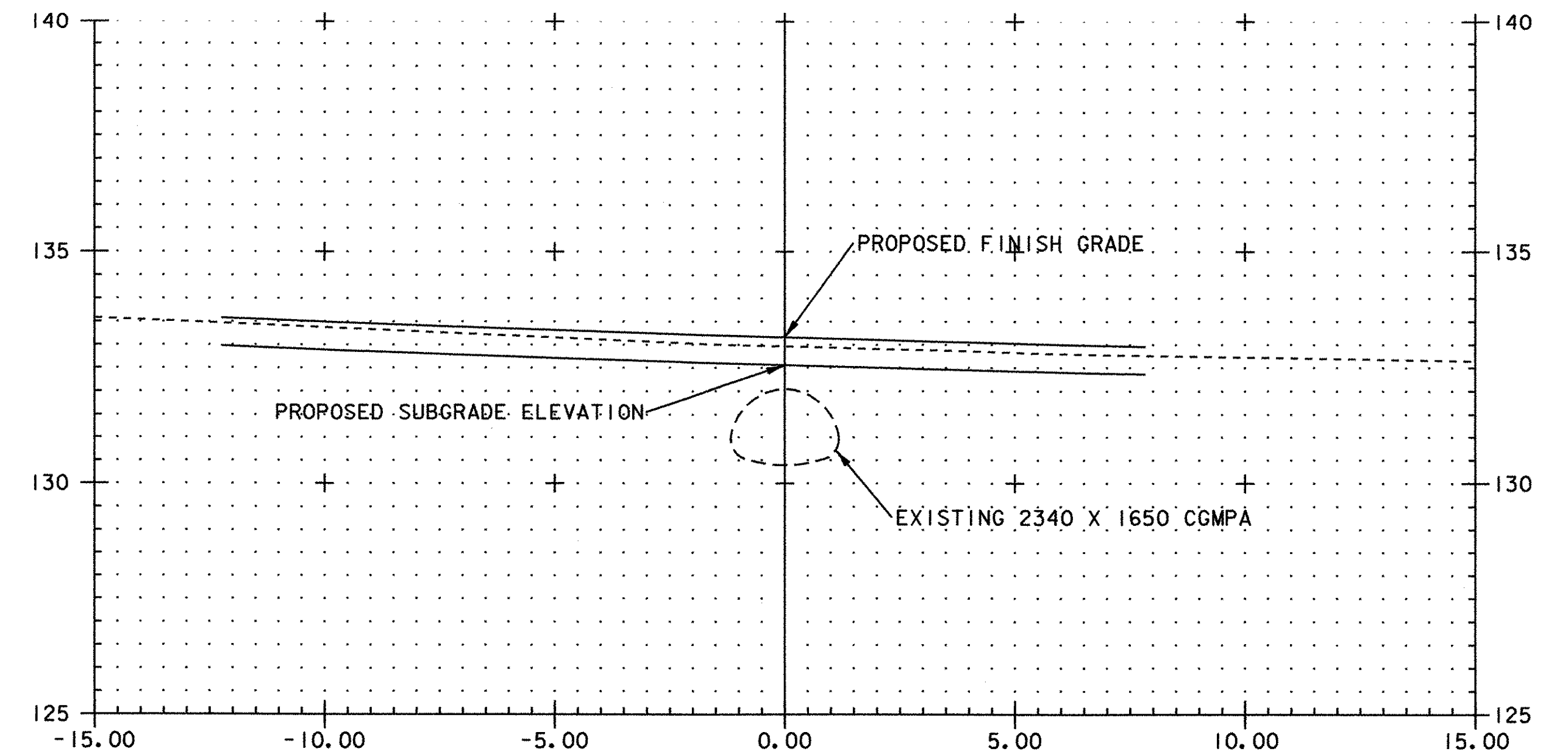


REINFORCING DETAIL SHEET

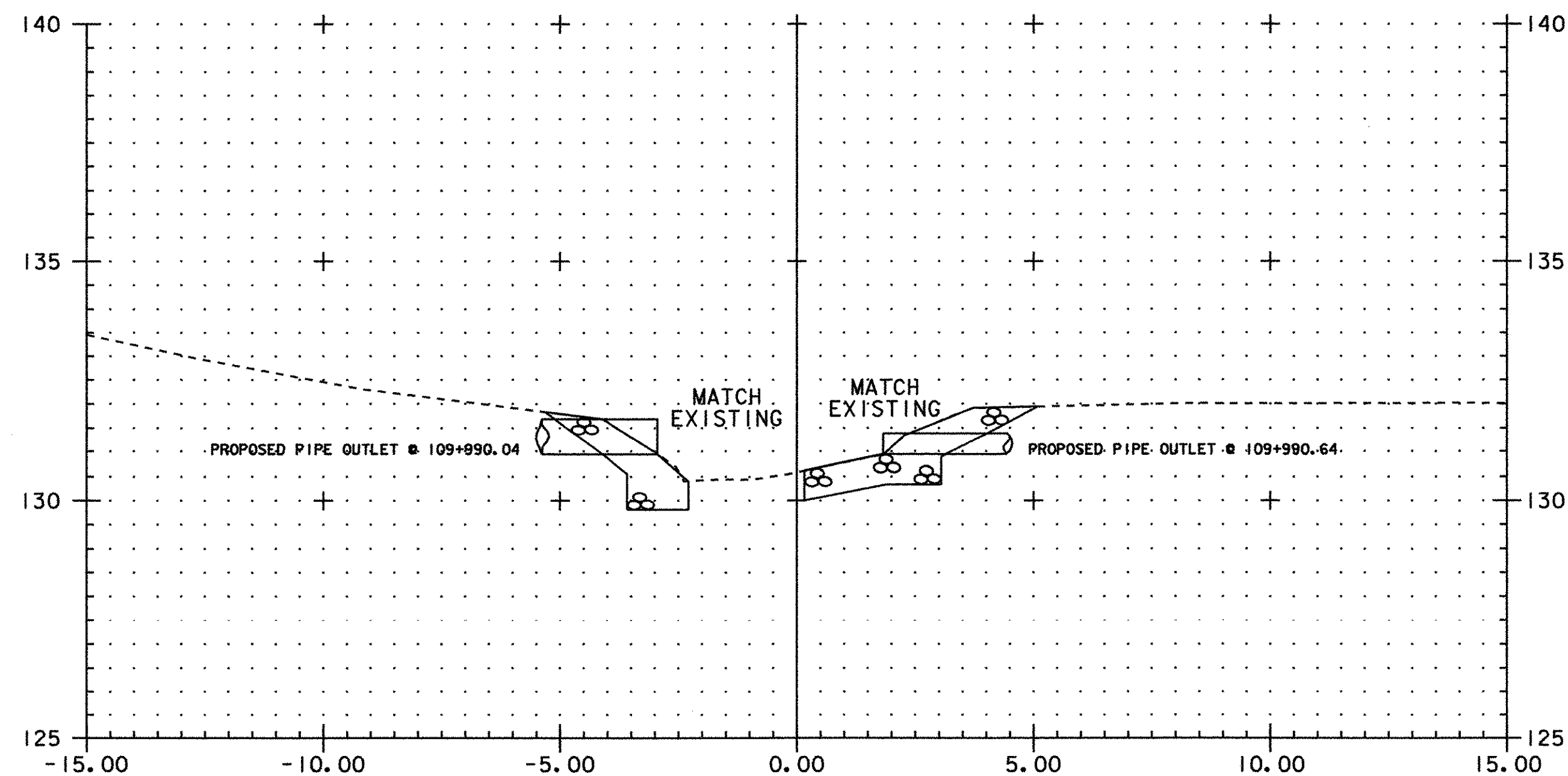
PROJECT NAME: FRANKLIN
 PROJECT NUMBER: STP 0301(18)
 FILE NAME: /str/85c060/s85c060ww.dgn PLOT DATE: 24-MAR-2003
 PROJECT LEADER: S. FARNSWORTH DRAWN BY: R. PELLET
 DESIGNED BY: M. FOWLER CHECKED BY: G. SPLAK
 sc060wr15282.1 SHEET 26 OF 60



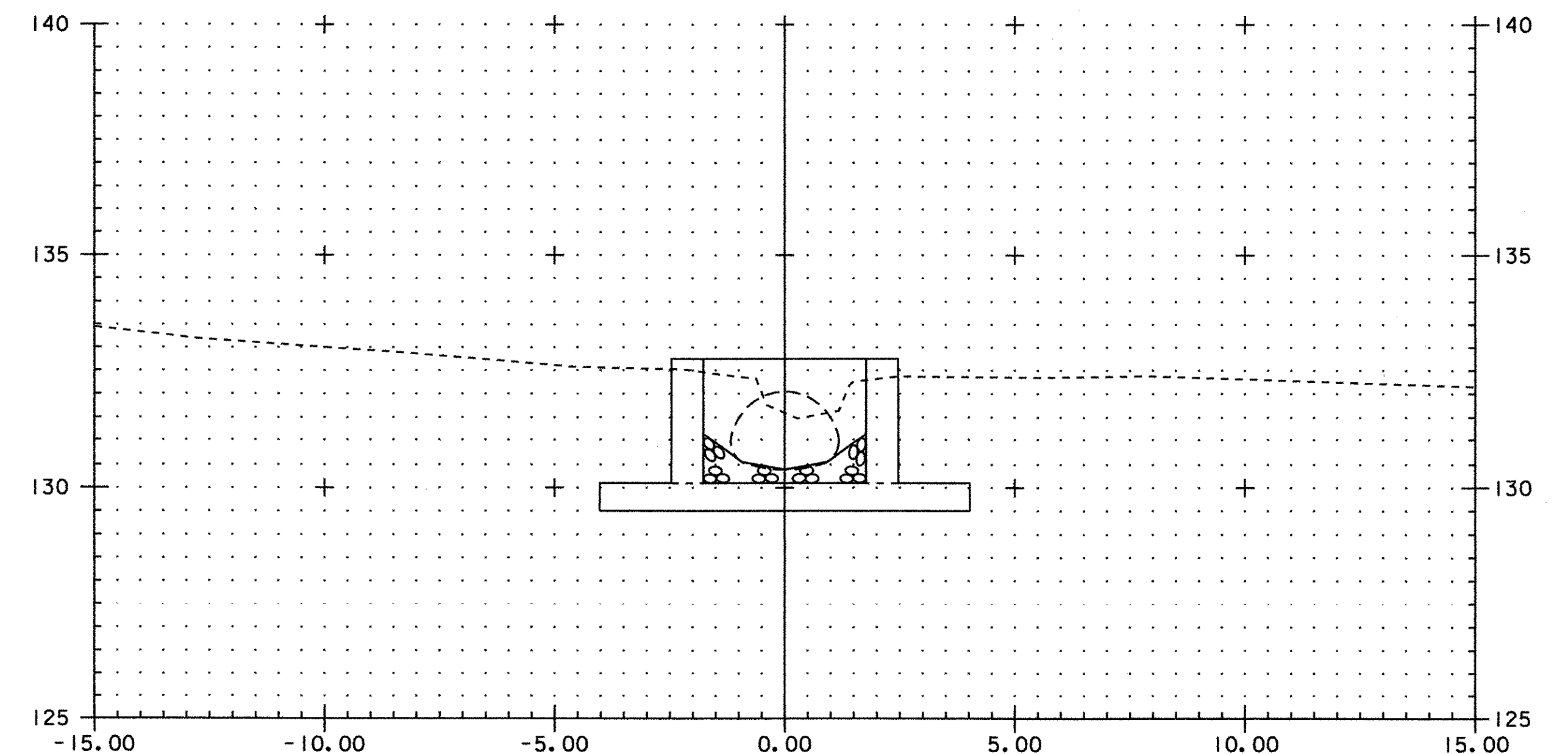
109+992.15
STA 109+992.16 END GRUBBING MATERIAL



110+000.00



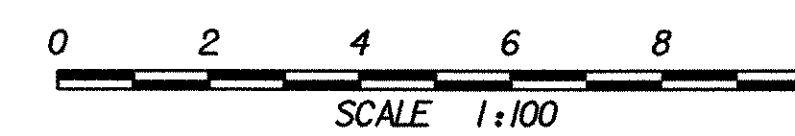
109+990.00
BEGIN TYPE II STONE FILL W/GEOTEXTILE UNDER STONE FILL AND GRUBBING MATERIAL

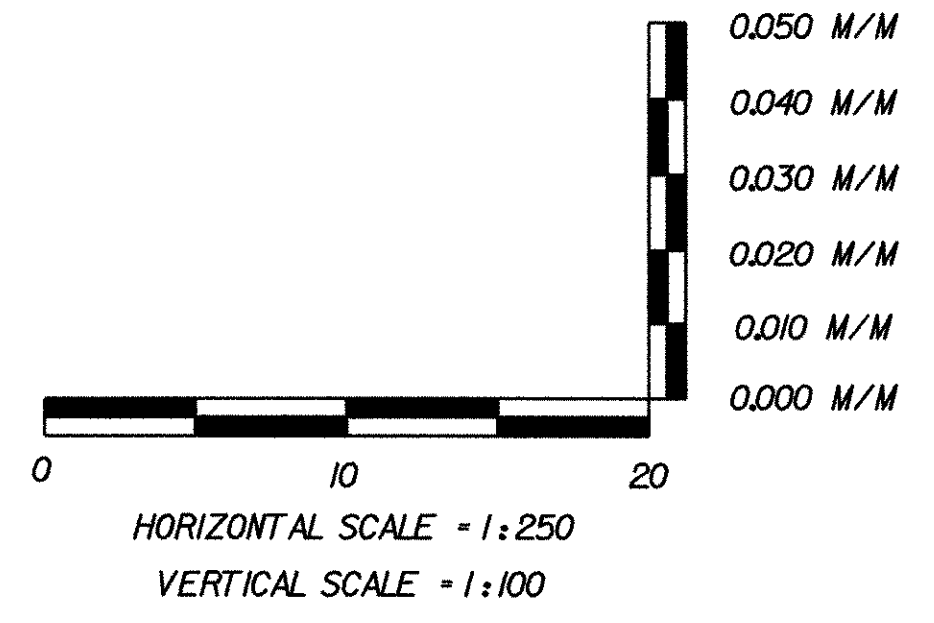
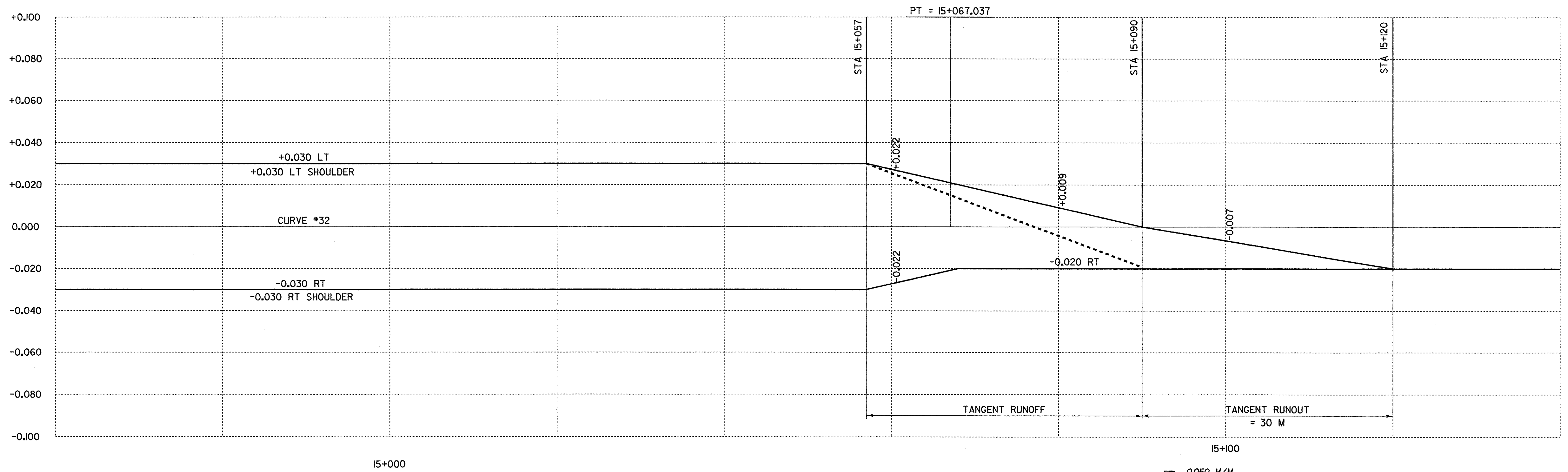
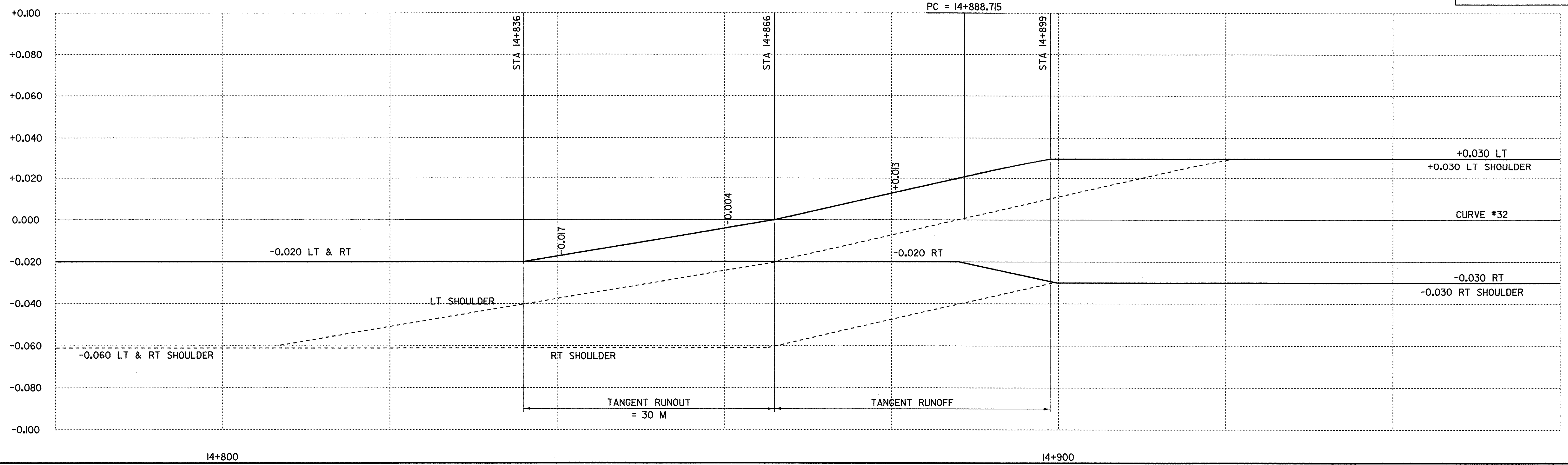


109+993.44
STA 109+993.43 END TYPE II STONE FILL
STA 109+992.98 END GEOTEXTILE UNDER STONE FILL

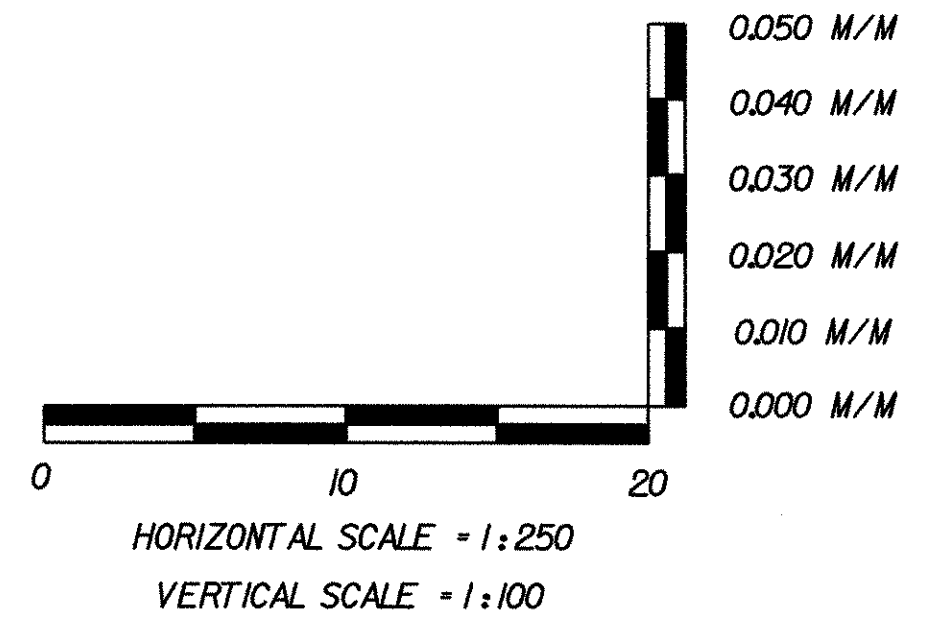
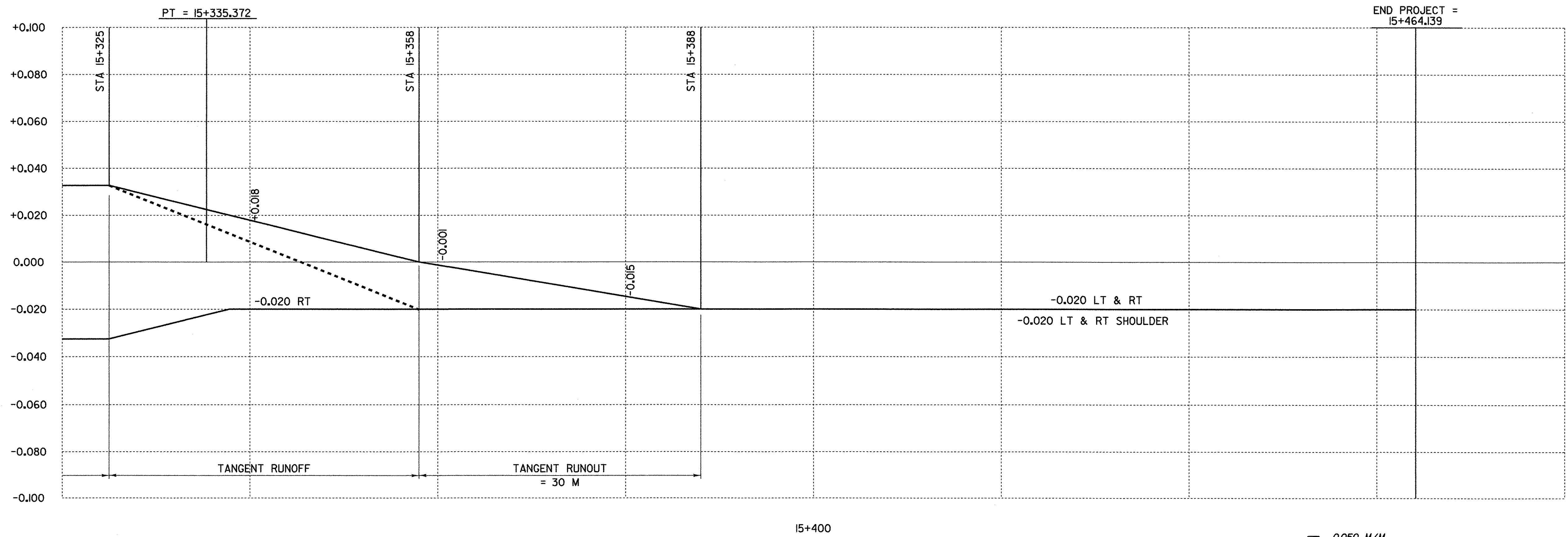
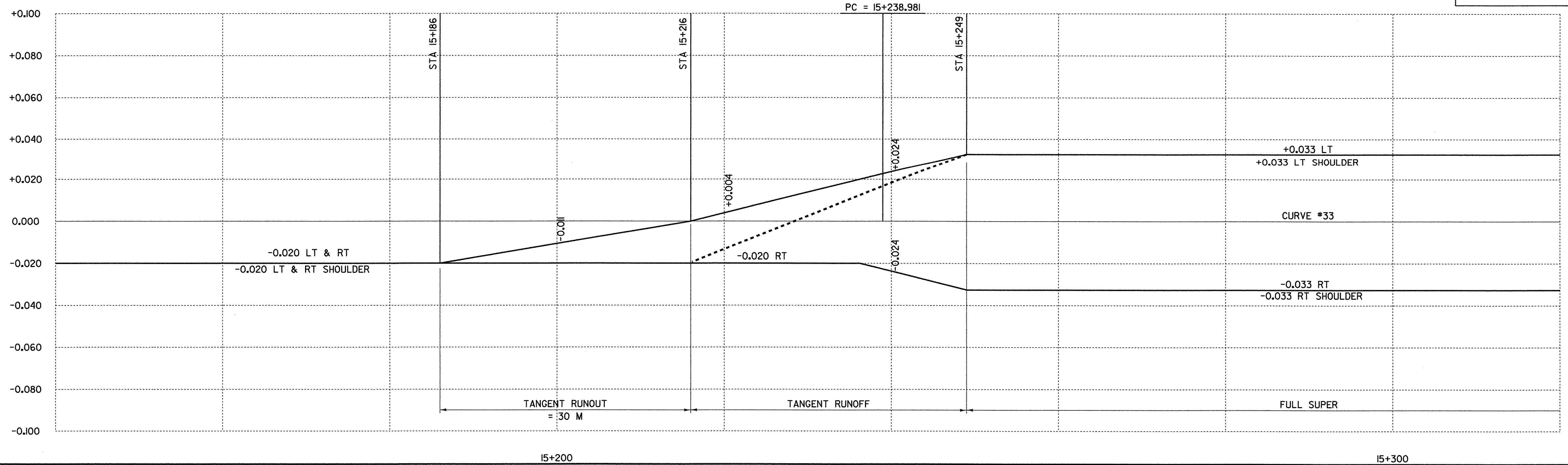
PIPE STA. 15+282 - CHANNEL SECTIONS

PROJECT NAME:	FRANKLIN	PLOT DATE:	21-MAR-2003
PROJECT NUMBER:	STP 0301(18)	DRAWN BY:	R. PELLETT
FILE NAME:	/85c060/str/s85c060xs.dgn	DESIGNED BY:	M. FOWLER
PROJECT LEADER:	S. FARNSWORTH	CHECKED BY:	G. SPILAK
DESIGNED BY:	M. FOWLER		
sc060xsl5282.1			SHEET 27 OF 60



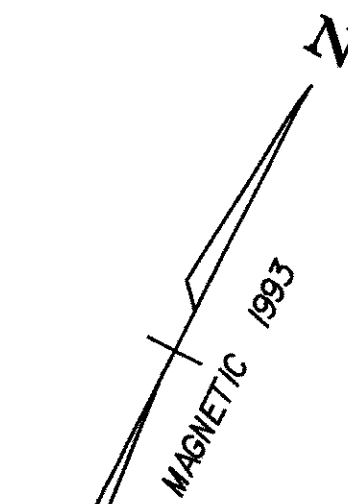


PROJECT NAME:	FRANKLIN
PROJECT NUMBER:	STP 030(18)
FILE NAME:	...85c060/design/dc060xsl.dgn
PROJECT LEADER:	DELLASANTA
DESIGNED BY:	SQUAD B
IPARM FILE NAME:	dc060b24.i
PLOT DATE:	31-MAR-2003
DRAWN BY:	SQUAD B
CHECKED BY:	SQUAD B
SHEET 28 OF 60	



PROJECT NAME:	FRANKLIN	PLOT DATE:	31-MAR-2003
PROJECT NUMBER:	STP 0301(18)	DRAWN BY:	SQUAD B
FILE NAME:	...85c060/design/dc060xsl.dgn	CHECKED BY:	SQUAD B
DESIGNED BY:	SQUAD B	SHEET	29 OF 60
IPARM FILE NAME:	dc060b25.j		

EROSION CONTROL LAYOUT



CURVE #32
 Δ 14° 35' 45" RT
 R 700.000 M
 L 178.323 M
 T 89.647 M
 E 5.717 M
 B 3.000%

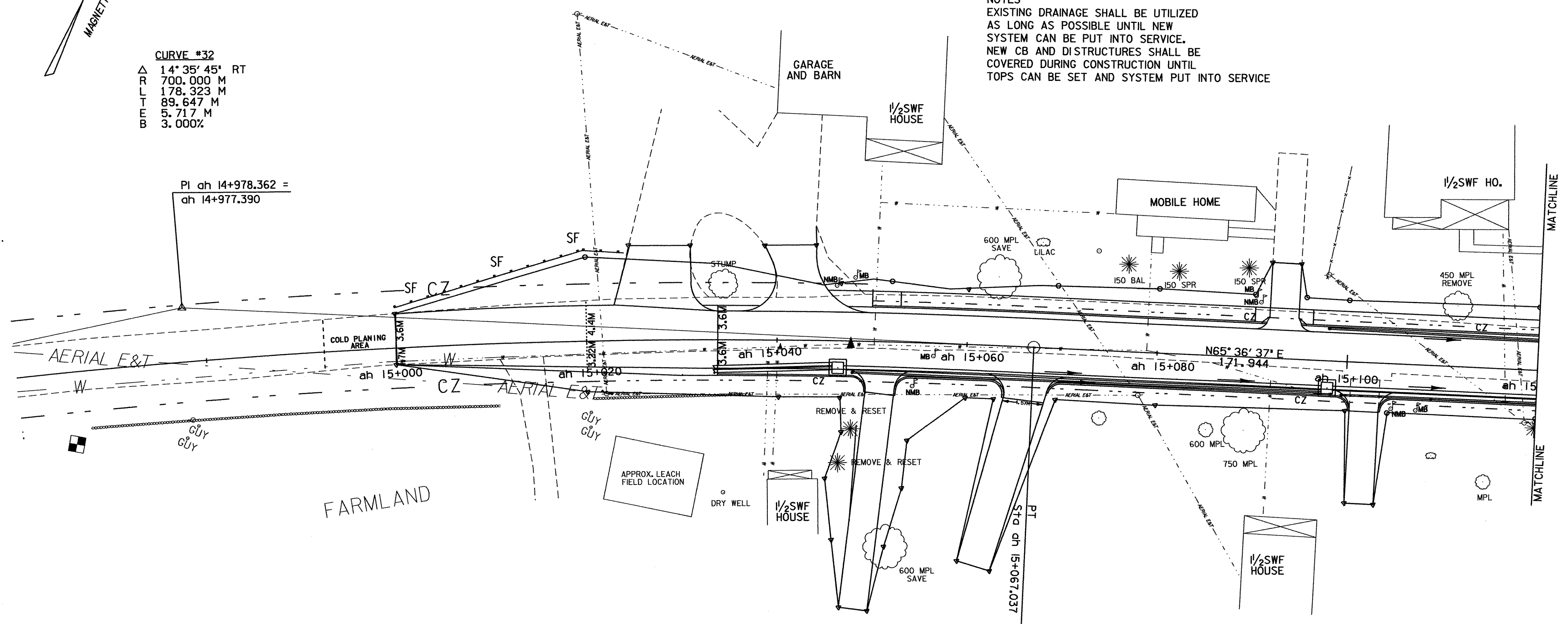
PI ah 14+978.362 =
 ah 14+977.390

GEOTEXTILE FOR SILT FENCE
 ah 15+000 ~ ah 15+023 LT. (25M)

SODDING
 ah 15+056 ~ ah 15+090 LT. (31M)
 ah 15+096 ~ ah 15+120 LT. (25M)
 ah 15+096 ~ ah 15+120 LT. (16M)

NOTES
 SODDING SHALL BE APPLIED IMMEDIATELY ON ALL LAWNS DISTURBED BEYOND THE WORK AREA DELINEATED ON THESE PLANS. ALL CONSTRUCTION SHALL BE PERFORMED FROM THE ROADWAY OUT.
 OUTSIDE OF THE ROADWAY BOXED EXCAVATION, ALL NEWLY CONSTRUCTED SLOPES (EXCAVATED OR EMBANKMENT) SHALL BE SEALED WITH 5MM THICK TOPSOIL AND MULCHED AT THE END OF EACH WORKDAY IN ACCORDANCE WITH THE SPECIFICATION AND THESE PLANS.

NOTES
 EXISTING DRAINAGE SHALL BE UTILIZED AS LONG AS POSSIBLE UNTIL NEW SYSTEM CAN BE PUT INTO SERVICE. NEW CB AND DISTRUCTURES SHALL BE COVERED DURING CONSTRUCTION UNTIL TOPS CAN BE SET AND SYSTEM PUT INTO SERVICE



○ DENOTES TREE OR STUMP REMOVAL

ALL DRIVE RADII SHALL BE 6M UNLESS OTHERWISE NOTED PER STD B-71M

EROSION CONTROL LAYOUT

PROJECT NAME:	FRANKLIN	
PROJECT NUMBER:	STP 030(18)	
FILE NAME:	85c060/design/2bdr.dgn	PLOT DATE: 27-MAR-2003
PROJECT LEADER:	DELLASANTA	DRAWN BY: SQUAD B
DESIGNED BY:	SQUAD B	CHECKED BY: SQUAD B
IPARM FILE NAME:	(2)dc060ecl.l	SHEET 30 OF 60

EROSION CONTROL LAYOUT

NOTES
 SODDING SHALL BE APPLIED IMMEDIATELY ON ALL LAWN DISTURBED BEYOND THE WORK AREA DELINEATED ON THESE PLANS. ALL CONSTRUCTION SHALL BE PERFORMED FROM THE ROADWAY OUT.
 OUTSIDE OF THE ROADWAY BOXED EXCAVATION, ALL NEWLY CONSTRUCTED SLOPES (EXCAVATED OR EMBANKMENT) SHALL BE SEALED WITH 5MM THICK TOPSOIL AND MULCHED AT THE END OF EACH WORKDAY IN ACCORDANCE WITH THE SPECIFICATION AND THESE PLANS.

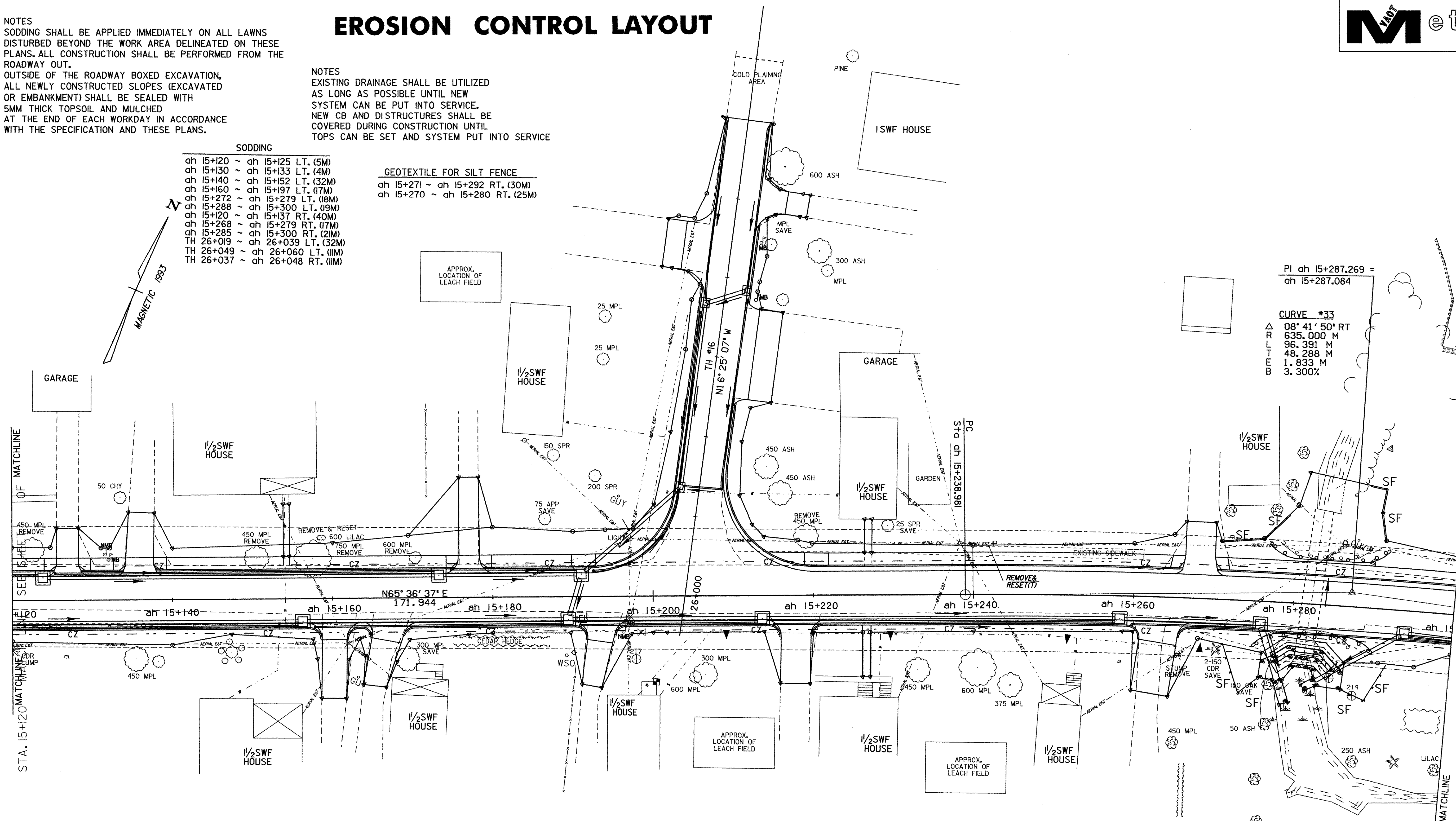
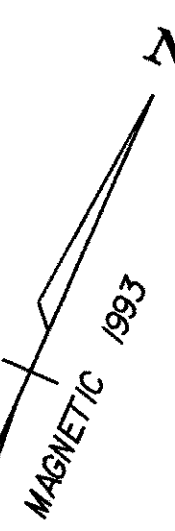
NOTES
 EXISTING DRAINAGE SHALL BE UTILIZED AS LONG AS POSSIBLE UNTIL NEW SYSTEM CAN BE PUT INTO SERVICE. NEW CB AND DISTRICTURES SHALL BE COVERED DURING CONSTRUCTION UNTIL TOPS CAN BE SET AND SYSTEM PUT INTO SERVICE.

SODDING

ah 15+120 ~ ah 15+125 LT. (5M)
ah 15+130 ~ ah 15+133 LT. (4M)
ah 15+140 ~ ah 15+152 LT. (32M)
ah 15+160 ~ ah 15+197 LT. (17M)
ah 15+272 ~ ah 15+279 LT. (18M)
ah 15+288 ~ ah 15+300 LT. (19M)
ah 15+200 ~ ah 15+177 RT. (40M)
ah 15+268 ~ ah 15+279 RT. (17M)
ah 15+285 ~ ah 15+300 RT. (21M)
TH 26+019 ~ ah 26+039 LT. (32M)
TH 26+049 ~ ah 26+060 LT. (11M)
TH 26+037 ~ ah 26+048 RT. (11M)

GEOTEXTILE FOR SILT FENCE

ah 15+271 ~ ah 15+292 RT. (30M)
ah 15+270 ~ ah 15+280 RT. (25M)



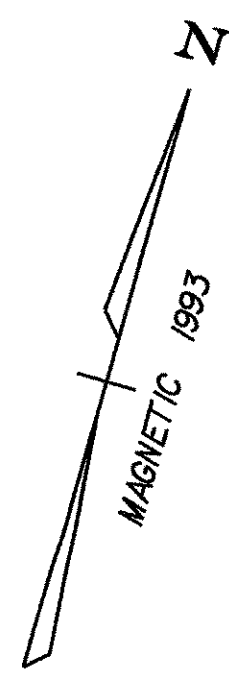
○ DENOTES TREE OR STUMP REMOVAL

ALL DRIVE RADII SHALL BE 6M UNLESS OTHERWISE NOTED PER STD B-71M

EROSION CONTROL LAYOUT

PROJECT NAME:	FRANKLIN
PROJECT NUMBER:	STP 030(18)
FILE NAME:	...85c060\destan\dc060bdr.dgn
PROJECT LEADER:	DELLASANTA
DESIGNED BY:	SQUAD_B
IPARM FILE NAME:	(2)dc060ec2.1
PLOT DATE:	10-APR-2003
DRAWN BY:	SQUAD_B
CHECKED BY:	SQUAD_B
SHEET	31 OF 60

EROSION CONTROL LAYOUT

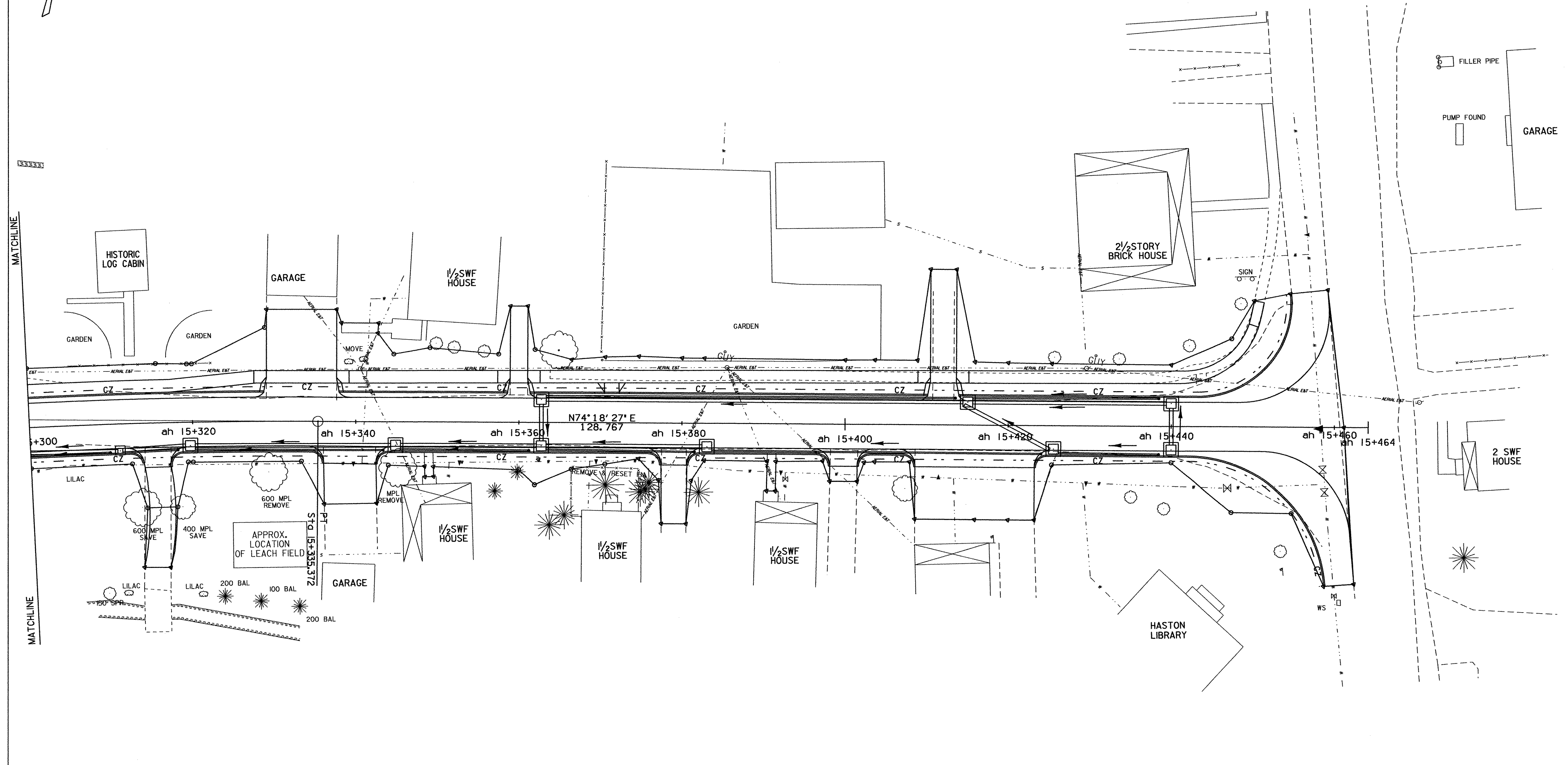


SODDING

ah 15+300 ~ ah 15+313 RT. (13M)
ah 15+320 ~ ah 15+334 RT. (15M)
ah 15+344 ~ ah 15+348 RT. (5M)
ah 15+349 ~ ah 15+371 RT. (26M)
ah 15+425 ~ ah 15+458 RT. (40M)
ah 15+300 ~ ah 15+328 LT. (29M)
ah 15+344 ~ ah 15+348 LT. (4M)
ah 15+349 ~ ah 15+353 LT. (9M)

NOTES
 SODDING SHALL BE APPLIED IMMEDIATELY ON ALL LAWNS DISTURBED BEYOND THE WORK AREA DELINEATED ON THESE PLANS. ALL CONSTRUCTION SHALL BE PERFORMED FROM THE ROADWAY OUT.
 OUTSIDE OF THE ROADWAY BOXED EXCAVATION, ALL NEWLY CONSTRUCTED SLOPES (EXCAVATED OR EMBANKMENT) SHALL BE SEALED WITH 5MM THICK TOPSOIL AND MULCHED AT THE END OF EACH WORKDAY IN ACCORDANCE WITH THE SPECIFICATION AND THESE PLANS.

NOTES
 EXISTING DRAINAGE SHALL BE UTILIZED AS LONG AS POSSIBLE UNTIL NEW SYSTEM CAN BE PUT INTO SERVICE. NEW CB AND DISTRICTURES SHALL BE COVERED DURING CONSTRUCTION UNTIL TOPS CAN BE SET AND SYSTEM PUT INTO SERVICE



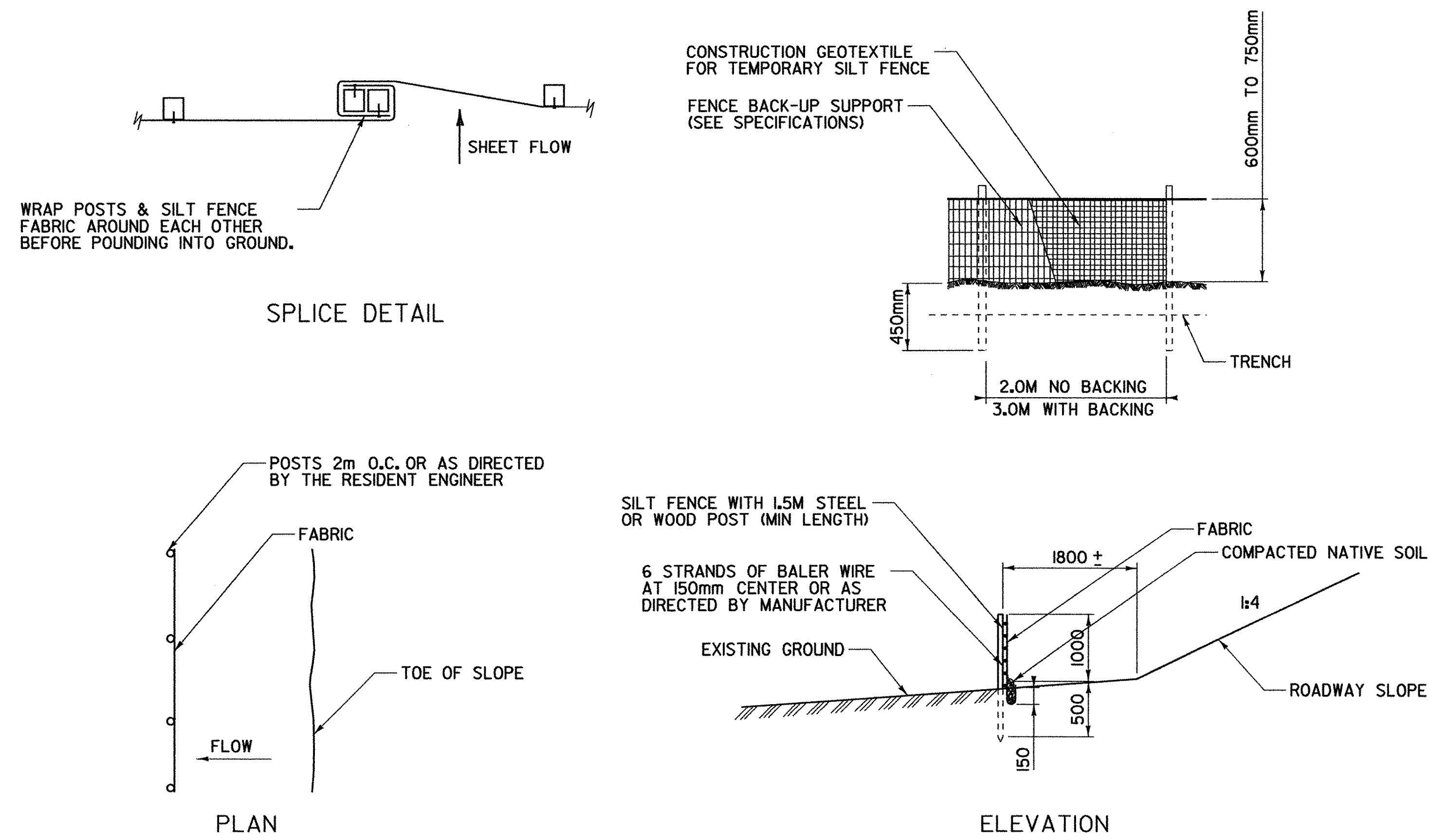
○ DENOTES TREE OR STUMP REMOVAL

ALL DRIVE RADII SHALL BE 6M UNLESS OTHERWISE NOTED PER STD B-71M

EROSION CONTROL LAYOUT

PROJECT NAME:	FRANKLIN	FILE NAME:	...85c060/desigr/dc060bdr.dgn	PLOT DATE:	27-MAR-2003
PROJECT NUMBER:	STP 0301(18)	PROJECT LEADER:	DELLASANTA	DRAWN BY:	SQUAD B
		DESIGNED BY:	SQUAD B	CHECKED BY:	SQUAD B
		IPARM FILE NAME:	(2)dc060ec3.1	SHEET	32 OF 60

EROSION CONTROL DETAILS



SILT FENCE
NOT TO SCALE

NOTES:

1. FILTER TO BE BURIED APPROXIMATELY 150 mm INTO THE GROUND
2. FABRIC TO BE ATTACHED TO WIRE ON SLOPE SIDE
3. CONTRACTOR WILL FURNISH COMMERCIALY AVAILABLE SILT FENCE THAT MEETS VAOT STANDARD SPECIFICATIONS FOR CONSTRUCTION
4. HAY BALES OR WIRE MESH MAY BE USED AT ENGINEERS DISCRETION IN CONJUNCTION WITH THE SILT FENCE
5. HAY BALES SHALL NOT BE USED IN AREAS OF CONCENTRATED FLOW

ALL DIMENSIONS IN mm UNLESS OTHERWISE NOTED.

EROSION CONTROL DETAIL

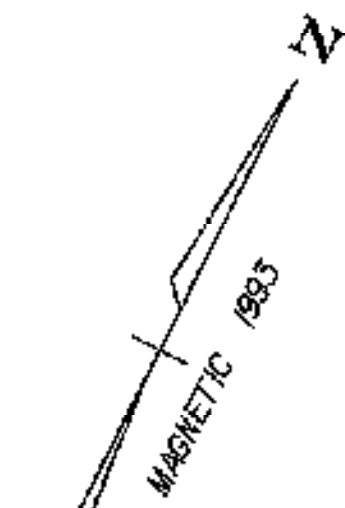
PROJECT NAME: FRANKLIN
PROJECT NUMBER: STP 0301(18)

FILE NAME: 85c060/design/(2)dc060pms.dgn PLOT DATE: 20-MAR-2003
PROJECT LEADER: DELLASANTA DRAWN BY: SQUAD B
DESIGNED BY: SQUAD B CHECKED BY: SQUAD B
IPARM FILE NAME: (2)dc060ed.l SHEET 33 OF 60

PAVMENT MARKING & TRAFFIC SIGNING LAYOUT

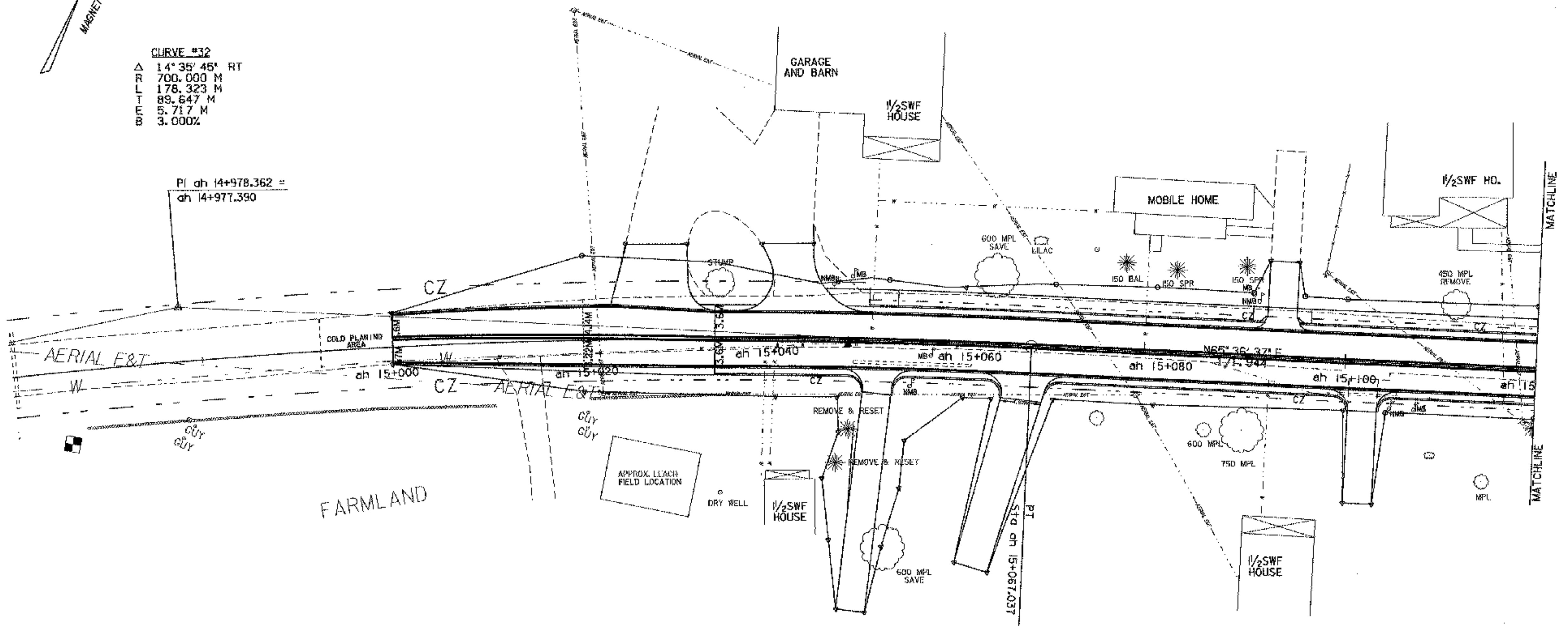


- | | | | |
|---|---|-----------------------------|-----------------|
| TEMPORARY 100mm WHITE LINE | | TEMPORARY 100mm YELLOW LINE | |
| ah 15+000 ~ ah 15+120 RT. EDGE LINE-SOLID | ah 15+000 ~ ah 15+120 LT. EDGE LINE-SOLID | ah 15+000 C/L ah 15+120 C/L | DBL. LINE-SOLID |
| DURABLE 100mm WHITE LINE | | DURABLE 100mm YELLOW LINE | |
| ah 15+000 ~ ah 15+120 RT. EDGE LINE-SOLID | ah 15+000 ~ ah 15+120 LT. EDGE LINE-SOLID | ah 15+000 C/L ah 15+120 C/L | DBL. LINE-SOLID |



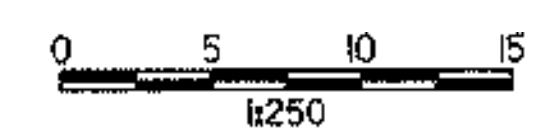
CURVE #32
 Δ 14° 35' 45" RT
 R 700.000 M
 L 176.323 M
 T 89.647 M
 E 5.717 M
 B 3.000%

PI ah 14+978.362 =
 ah 14+977.390



- LEGEND
- R = REMOVE
 - N = NEW
 - R&S = REMOVE & SALVAGE
 - RET = RETAIN

PAVEMENT MARKING & TRAFFIC SIGNING LAYOUT



○ DENOTES TREE OR STUMP REMOVAL

ALL DRIVE RADII SHALL BE 6M UNLESS OTHERWISE NOTED PER STD B-71M

PROJECT NAME:	FRANKLIN
PROJECT NUMBER:	STP 0301(18)
FILE NAME: ...85c060/design/dc060bdr.dgn	PLOT DATE: 24-MAR-2003
PROJECT LEADER: DELLASANTA	DRAWN BY: SQUAD B
DESIGNED BY: SQUAD B	CHECKED BY: SQUAD B
IPARM FILE NAME: dc060pml.l	SHEET 34 OF 60

PAVMENT MARKING & TRAFFIC SIGNING LAYOUT



TEMPORARY 100mm WHITE LINE
M/L ah 15+120 LT ~ SL 26+060 LT, EDGE LINE-SOLID
S/L 26+060 RT ~ ah 15+300 LT, EDGE LINE-SOLID
M/L ah 15+120 ~ ah 15+300 RT, EDGE LINE-SOLID

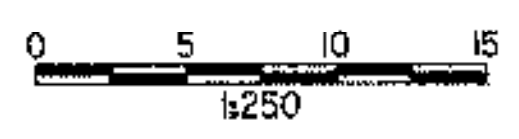
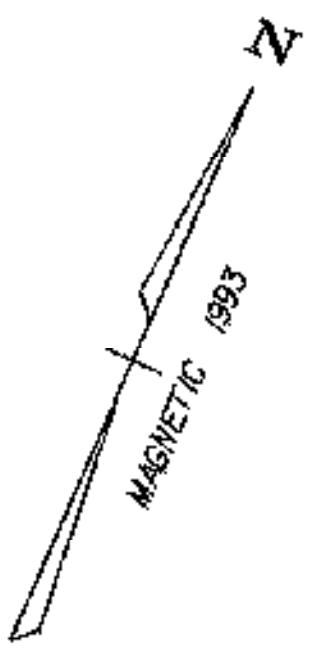
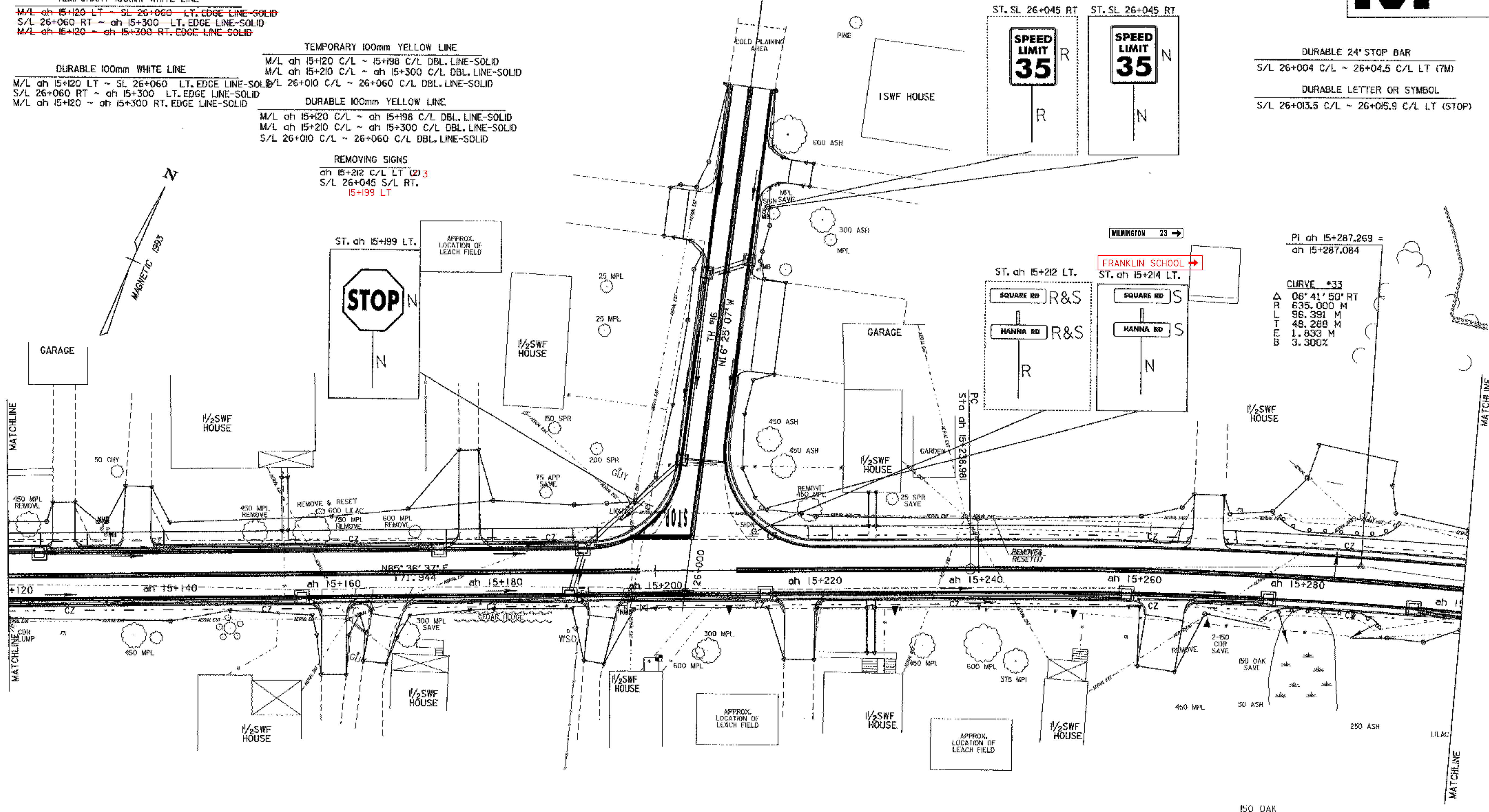
DURABLE 100mm WHITE LINE
M/L ah 15+120 LT ~ SL 26+060 LT, EDGE LINE-SOLID
S/L 26+060 RT ~ ah 15+300 LT, EDGE LINE-SOLID
M/L ah 15+120 ~ ah 15+300 RT, EDGE LINE-SOLID

TEMPORARY 100mm YELLOW LINE
M/L ah 15+120 C/L ~ 15+198 C/L DBL. LINE-SOLID
M/L ah 15+210 C/L ~ ah 15+300 C/L DBL. LINE-SOLID
M/L 26+010 C/L ~ 26+060 C/L DBL. LINE-SOLID

DURABLE 100mm YELLOW LINE
M/L ah 15+120 C/L ~ ah 15+198 C/L DBL. LINE-SOLID
M/L ah 15+210 C/L ~ ah 15+300 C/L DBL. LINE-SOLID
S/L 26+010 C/L ~ 26+060 C/L DBL. LINE-SOLID

REMOVING SIGNS
ah 15+212 C/L LT (2) 3
S/L 26+045 S/L RT.
15+199 LT

DURABLE 24" STOP BAR
S/L 26+004 C/L ~ 26+04.5 C/L LT (7M)
DURABLE LETTER OR SYMBOL
S/L 26+013.5 C/L ~ 26+015.9 C/L LT (STOP)



○ DENOTES TREE OR STUMP REMOVAL

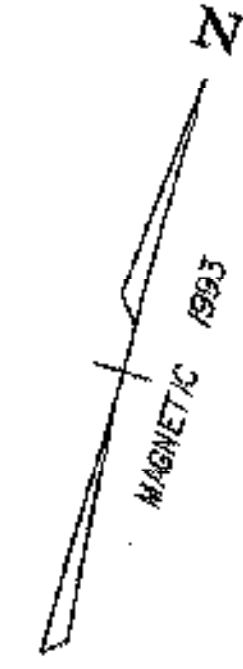
ALL DRIVE RADII SHALL BE 6M UNLESS OTHERWISE NOTED PER STD B-71M

LEGEND
R = REMOVE
N = NEW
R&S = REMOVE & SALVAGE
RET = RETAIN

PAVEMENT MARKING & TRAFFIC SIGNING LAYOUT

PROJECT NAME:	FRANKLIN
PROJECT NUMBER:	STP 030K(18)
FILE NAME:	...85c060/design/dc060bdr.dgn
PLOT DATE:	27-MAR-2003
PROJECT LEADER:	DELLASANTA
DRAWN BY:	SQUAD B
DESIGNED BY:	SQUAD B
CHECKED BY:	SQUAD B
IPARM FILE NAME:	(2) dc060pms2
SHEET	35 OF 60

PAVMENT MARKING & TRAFFIC SIGNING LAYOUT



TEMPORARY 4" WHITE LINE
 M/L ah 15+300 ~ ah 15+459 LT, EDGE LINE-SOLID
 M/L ah 15+300 ~ ah 15+462 RT, EDGE LINE-SOLID

DURABLE 4" WHITE LINE
 M/L ah 15+300 ~ ah 15+459 LT, EDGE LINE-SOLID
 M/L ah 15+300 ~ ah 15+462 RT, EDGE LINE-SOLID

DURABLE 24" STOP BAR
 M/L 15+458.8 C/L ~ ah 15+459.5 C/L RT (7M)

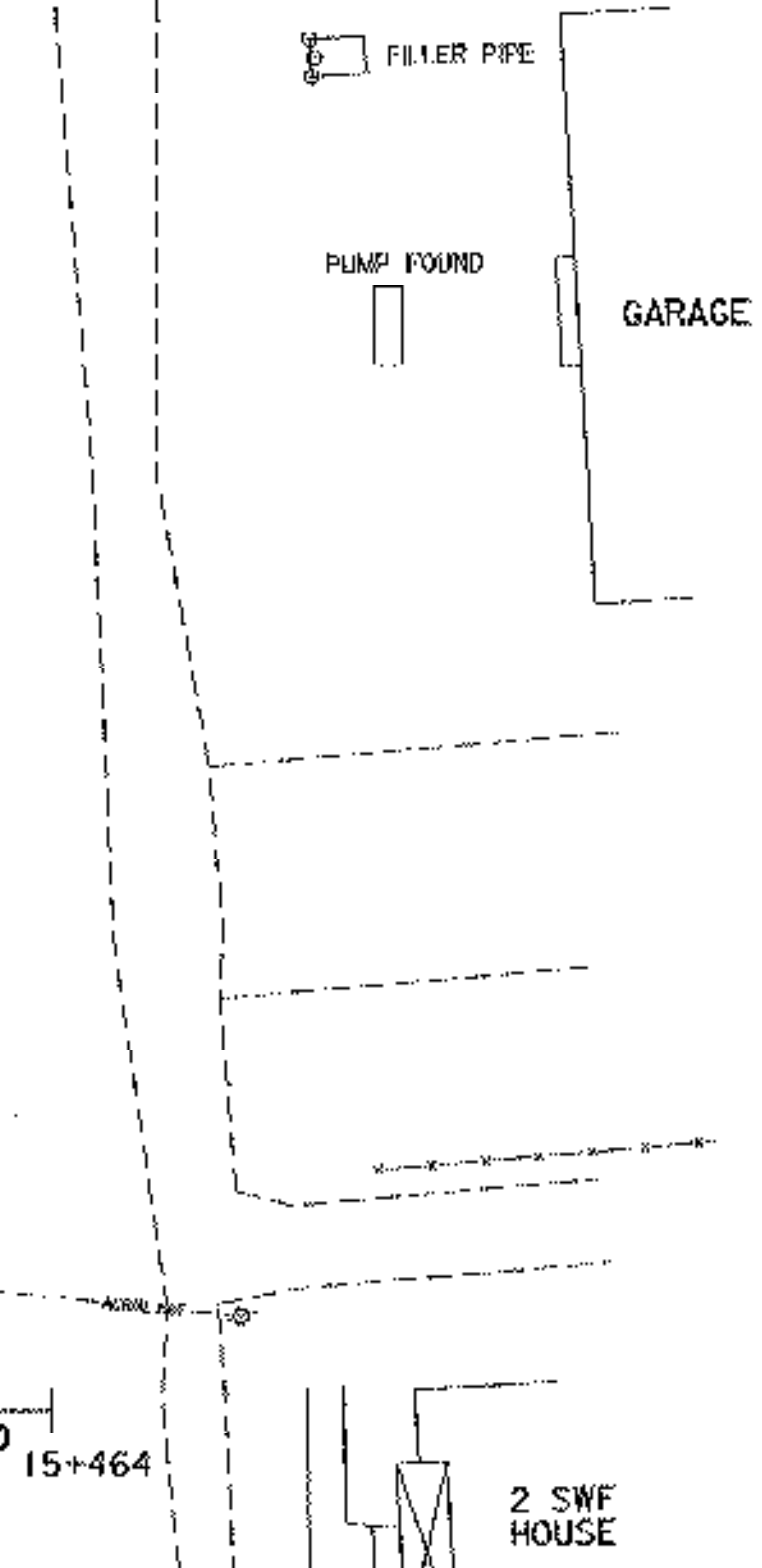
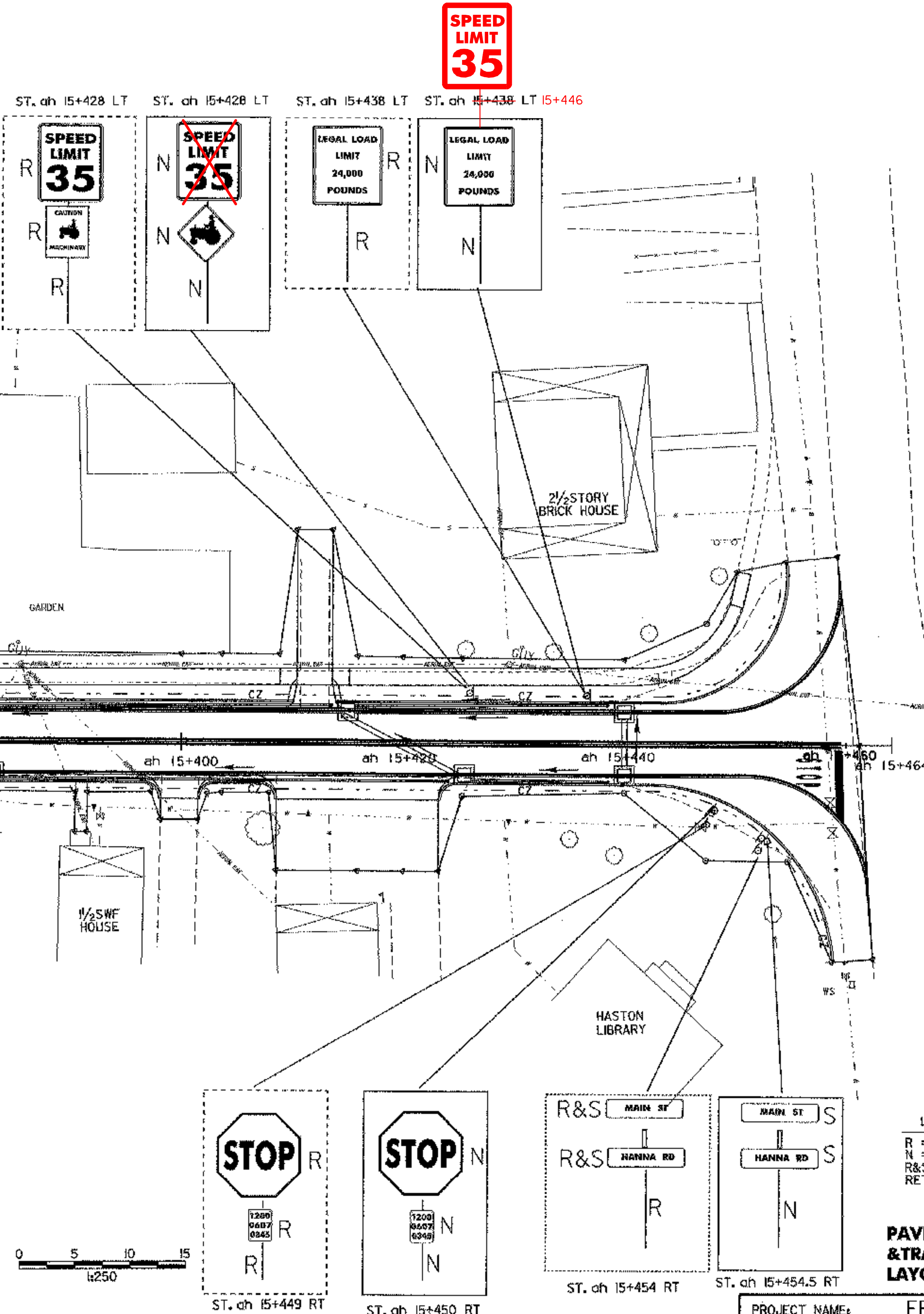
DURABLE LETTER OR SYMBOL
 M/L 15+449.1 C/L ~ ah 15+451.5 C/L RT (STOP)

TEMPORARY 4" YELLOW LINE
 M/L ah 15+300 C/L ~ ah 15+459 C/L DBL. LINE-SOLID

DURABLE 4" YELLOW LINE
 M/L ah 15+300 C/L ~ ah 15+459 C/L DBL. LINE-SOLID

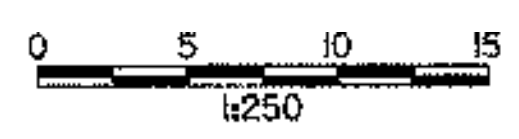
REMOVING SIGNS

ah 15+428 LT (2)
 ah 15+438 LT
 ah 15+449 RT (2)
 ah 15+454 RT (2)



LEGEND
 R = REMOVE
 N = NEW
 R&S = REMOVE & SALVAGE
 RET = RETAIN

PAVEMENT MARKING & TRAFFIC SIGNING LAYOUT

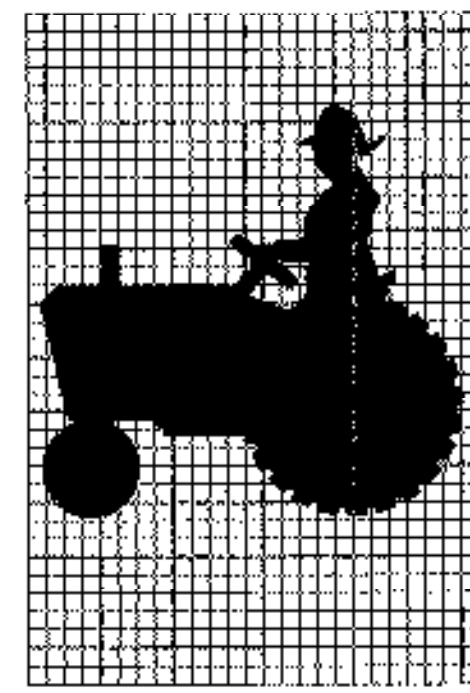


○ DENOTES TREE OR STUMP REMOVAL

ALL DRIVE RADII SHALL BE 6M UNLESS OTHERWISE NOTED PER STD B-7M

PROJECT NAME:	FRANKLIN
PROJECT NUMBER:	STP 030(118)
FILE NAME: ...85c060/des/gn/do060bdr.dgn	PLOT DATE: 27-MAR-2003
PROJECT LEADER: DELLASANTA	DRAWN BY: SQUAD B
DESIGNED BY: SQUAD B	CHECKED BY: SQUAD B
IPARM FILE NAME: do060pms3	SHEET 36 OF 60

KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST. POST	NO. OF POSTS	NEW SIGN POSTS													REMARKS	SIGN DETAIL						
		E A	WIDTH (mm)	HEIGHT (mm)	"A"	"B"	SALV SIGN			SALV TIS	FLANGED CHANNEL			SQUARE STEEL (mm)			TUBULAR ALUMINUM Ø (mm)			TUBULAR STEEL Ø (mm)				W-SHAPE STEEL		DETAIL ON SHEET NUMBER	STD. SHEET NUMBER			
											kg/m	3.0	4.5	44	50	63	75	100	100 MOD	75	89	100		125	FTG. SIZE			WEIGHT	POST SIZE	
																									1.7					3.4
	TH # 16									OPTION ITEMS																				
SL 26+045 RT.		I	600	750	0.450			I			X														R2-4	E-142M				



SCALE - 1 SQUARE = 1 UNIT

W11-5

NOTE: OPTICALLY CENTER

SIGN	DIMENSIONS (INCHES)			
	A	B	C	D
MIN.	600	10	15	50
STD.	750	13	20	50
EXPWY.	900	15	25	60
SPECIAL	1200	20	30	700

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE."

TOTALS m² 0.450
GRAND TOTALS (3.07)

m²

EA.

m²

4 (27)

4 (27)

kg

EA.

kg

EA.

EA.

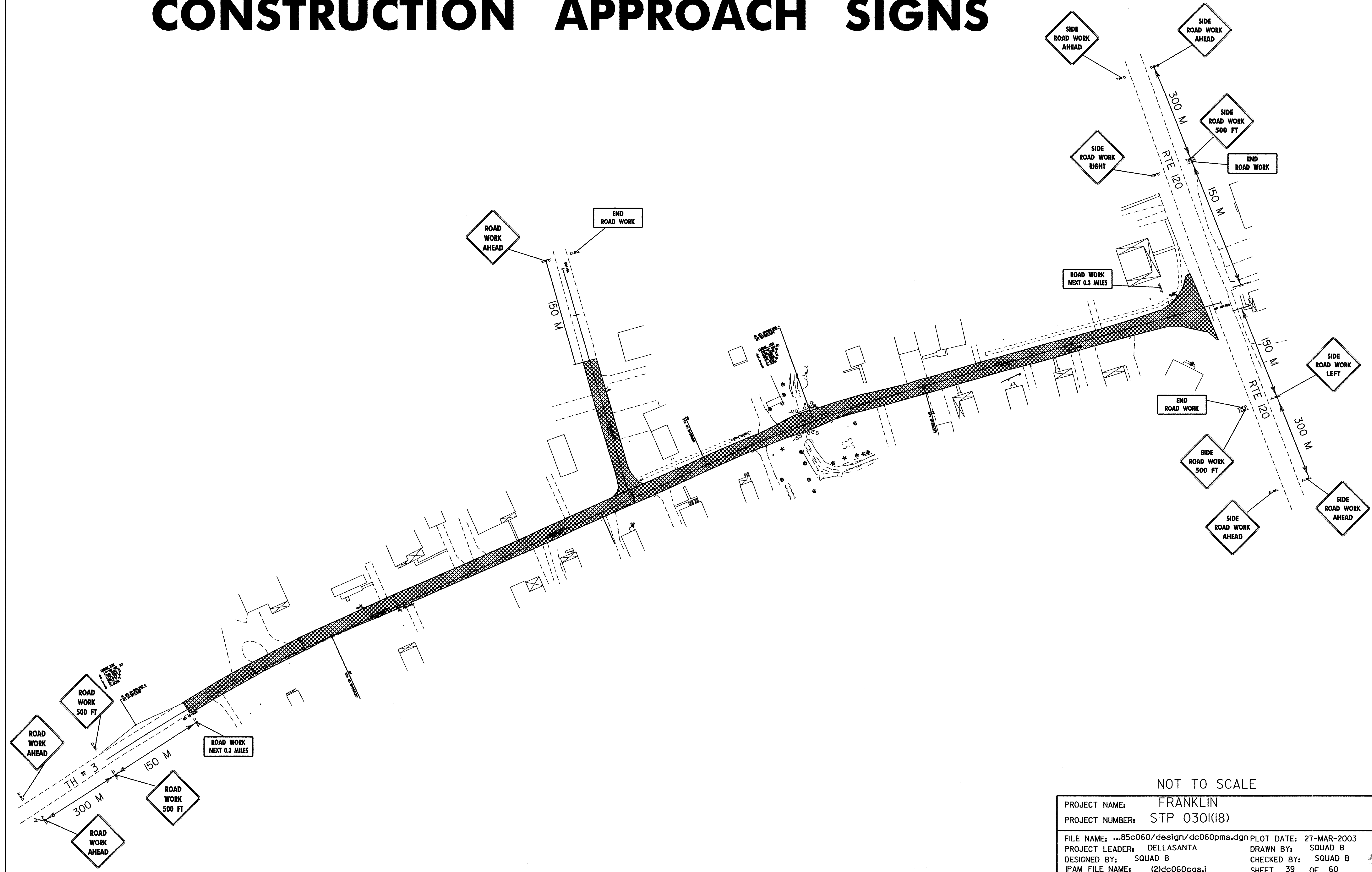
kg

PROJECT NAME: FRANKLIN
PROJECT NUMBER: STP 0301(18)

FILE NAME: ...85c060/desigr/dc060pms.dgn PLOT DATE: 27-MAR-2003
PROJECT LEADER: DELLASANTA DRAWN BY: SQUAD B
DESIGNED BY: SQUAD B CHECKED BY: SQUAD B
PAM FILE NAME: (2)dc060teh.l SHEET 38 OF 60

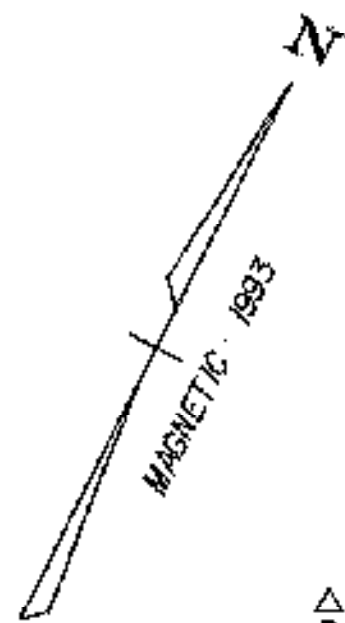
SIDE ROAD CONSTRUCTION APPROACH SIGNS

CONSTRUCTION APPROACH SIGNS



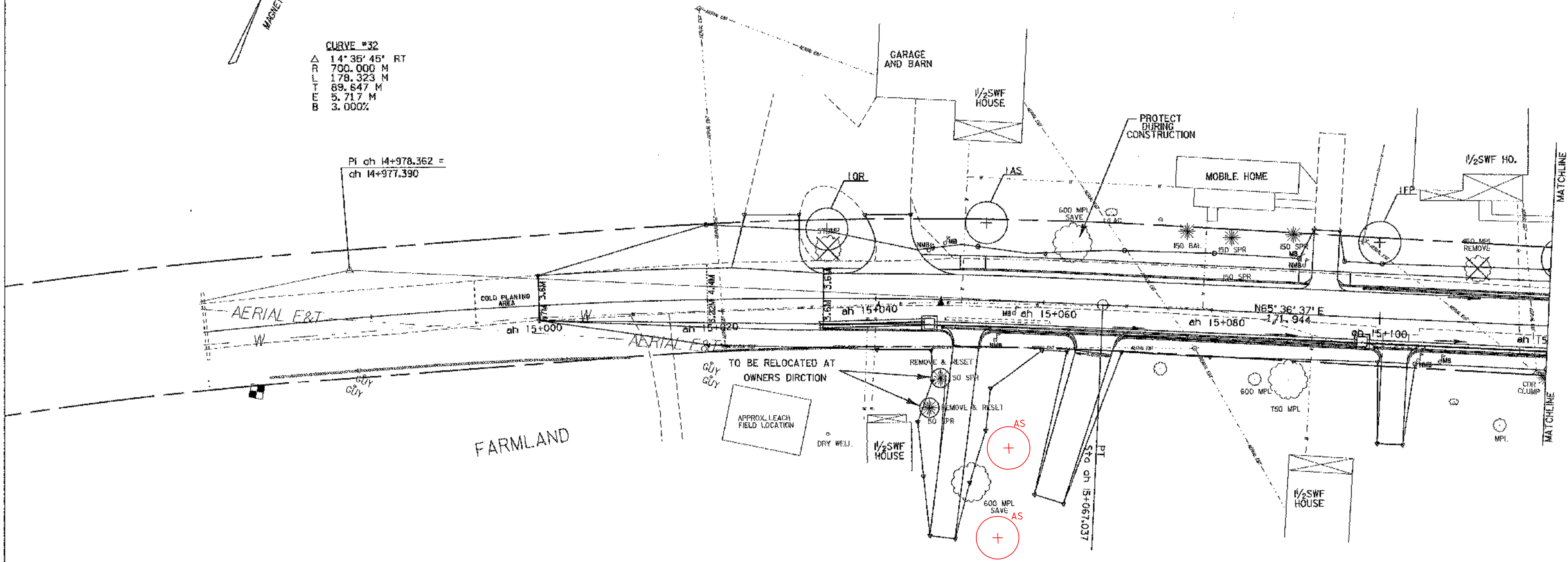
NOT TO SCALE

PROJECT NAME:	FRANKLIN
PROJECT NUMBER:	STP 030(18)
FILE NAME:	...85c060/design/dc060pms.dgn
PROJECT LEADER:	DELLASANTA
DESIGNED BY:	SQUAD B
IPAM FILE NAME:	(2)dc060cas.i
PLOT DATE:	27-MAR-2003
DRAWN BY:	SQUAD B
CHECKED BY:	SQUAD B
SHEET	39 OF 60



CURVE #32
 Δ 14° 35' 45" RT
 R 700.000 M
 L 178.323 M
 T 89.647 M
 E 5.717 M
 B 3.000%

PI ch 14+978.362 =
 ch 14+977.390



LEGEND

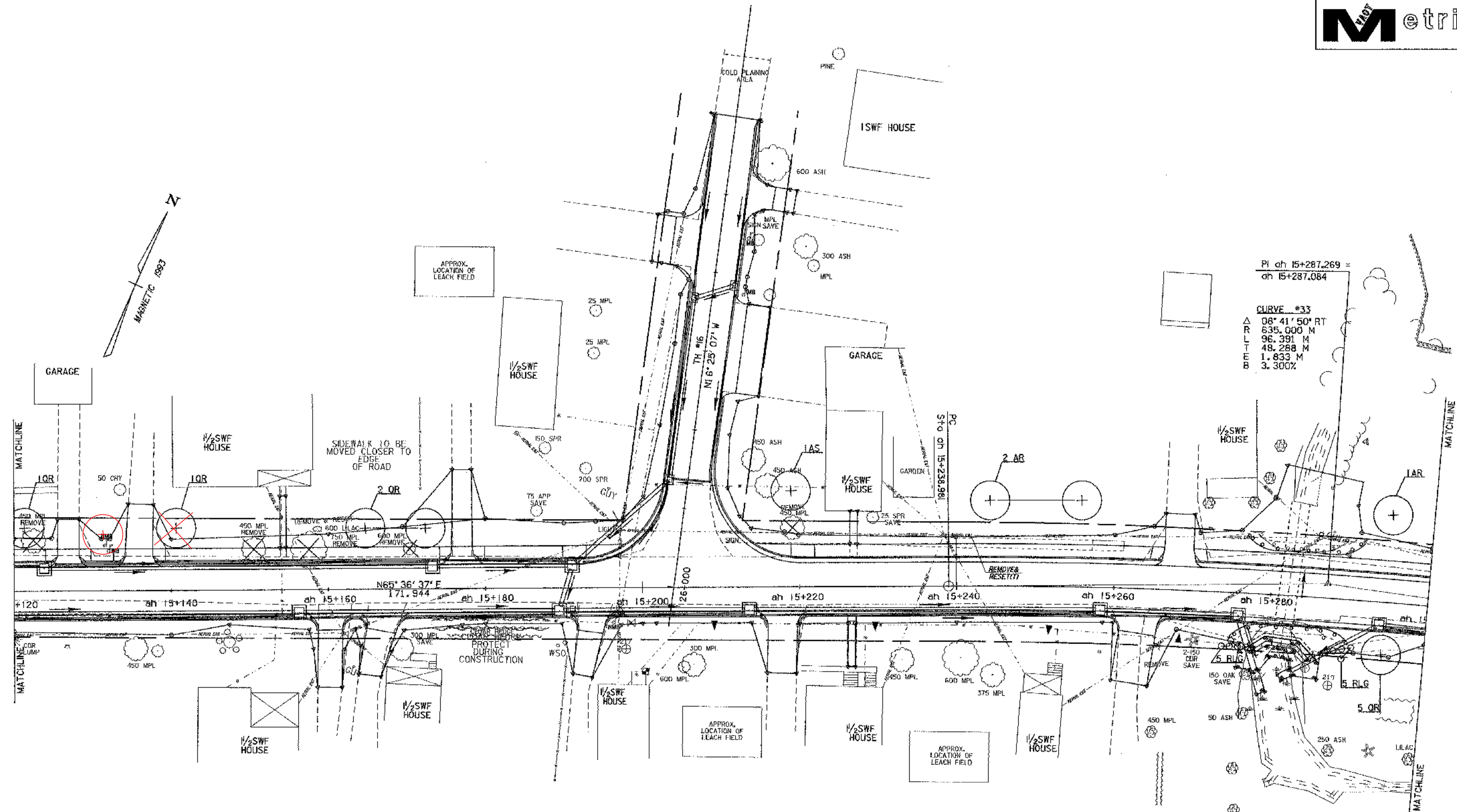
- TO BE REMOVED
- PROPOSED TREE
- TO BE RELOCATED BY OTHERS
- PROTECT EXISTING TREES DURING CONSTRUCTION
- EXISTING TREE (TO REMAIN)

○ DENOTES TREE OR STUMP REMOVAL






ALL DRIVE RADII SHALL BE 6M UNLESS OTHERWISE NOTED PER STD B-71M

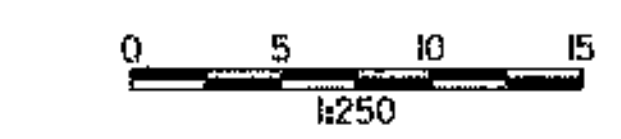
LANDSCAPE PLANS

PROJECT NAME:	FRANKLIN	PLOT DATE:	27-MAR-2003
PROJECT NUMBER:	STP 030(K18)	DRAWN BY:	SQUAD B
FILE NAME:	85c060/desigrn/2bdr.dgn	CHECKED BY:	SQUAD B
PROJECT LEADER:	DELLASANTA	IPARM FILE NAME:	(2)dc060(hr.l)
DESIGNED BY:	SQUAD B	SHEET	40 OF 60



LEGEND

-  - TO BE REMOVED
-  - PROPOSED TREE
-  - TO BE RELOCATED BY OTHERS
-  - PROTECT EXISTING TREES DURING CONSTRUCTION
-  - EXISTING TREE (TO REMAIN)



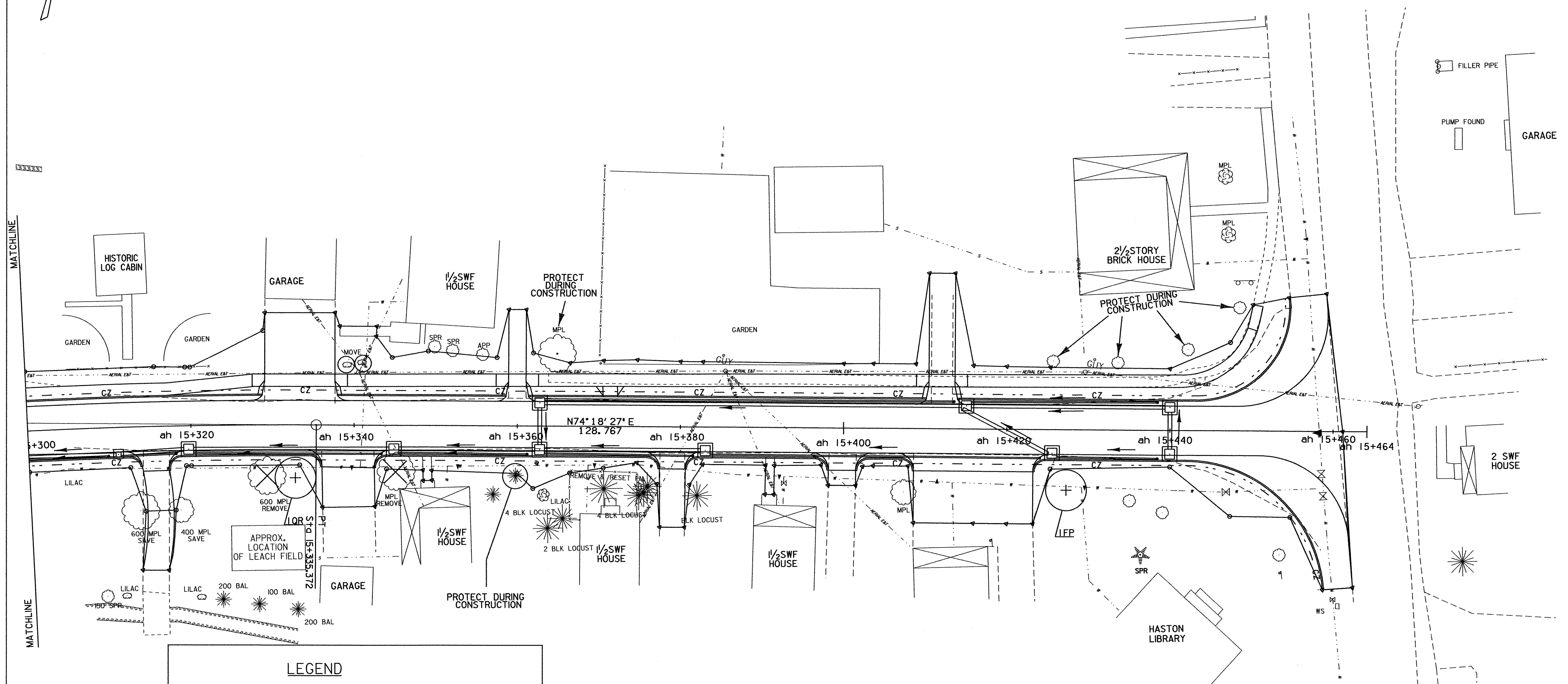
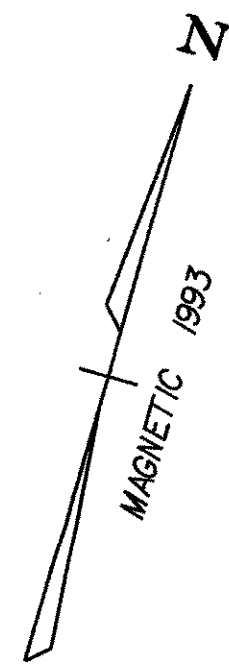
○ DENOTES TREE OR STUMP REMOVAL

ALL DRIVE RADII SHALL BE 6M UNLESS OTHERWISE NOTED PER STD B-71M

SCAPE PLANS

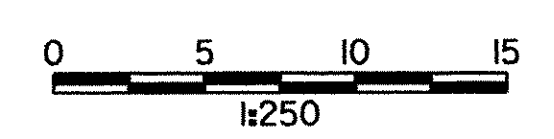
LANDSCAPE PLANS

PROJECT NAME:	FRANKLIN
PROJECT NUMBER:	STP 030(18)
FILE NAME:	85c060/design/2)boreo.dgn
PROJECT LEADER:	DELLASANTA
DESIGNED BY:	SQUAD B
IPARM FILE NAME:	(2)dc060ln2.1
PLOT DATE:	27-MAR-2003
DRAWN BY:	SQUAD B
CHECKED BY:	SQUAD B
SHEET	41 OF 60



LEGEND

- TO BE REMOVED
- PROPOSED TREE
- TO BE RELOCATED BY OTHERS
- PROTECT EXISTING TREES DURING CONSTRUCTION
- EXISTING TREE (TO REMAIN)



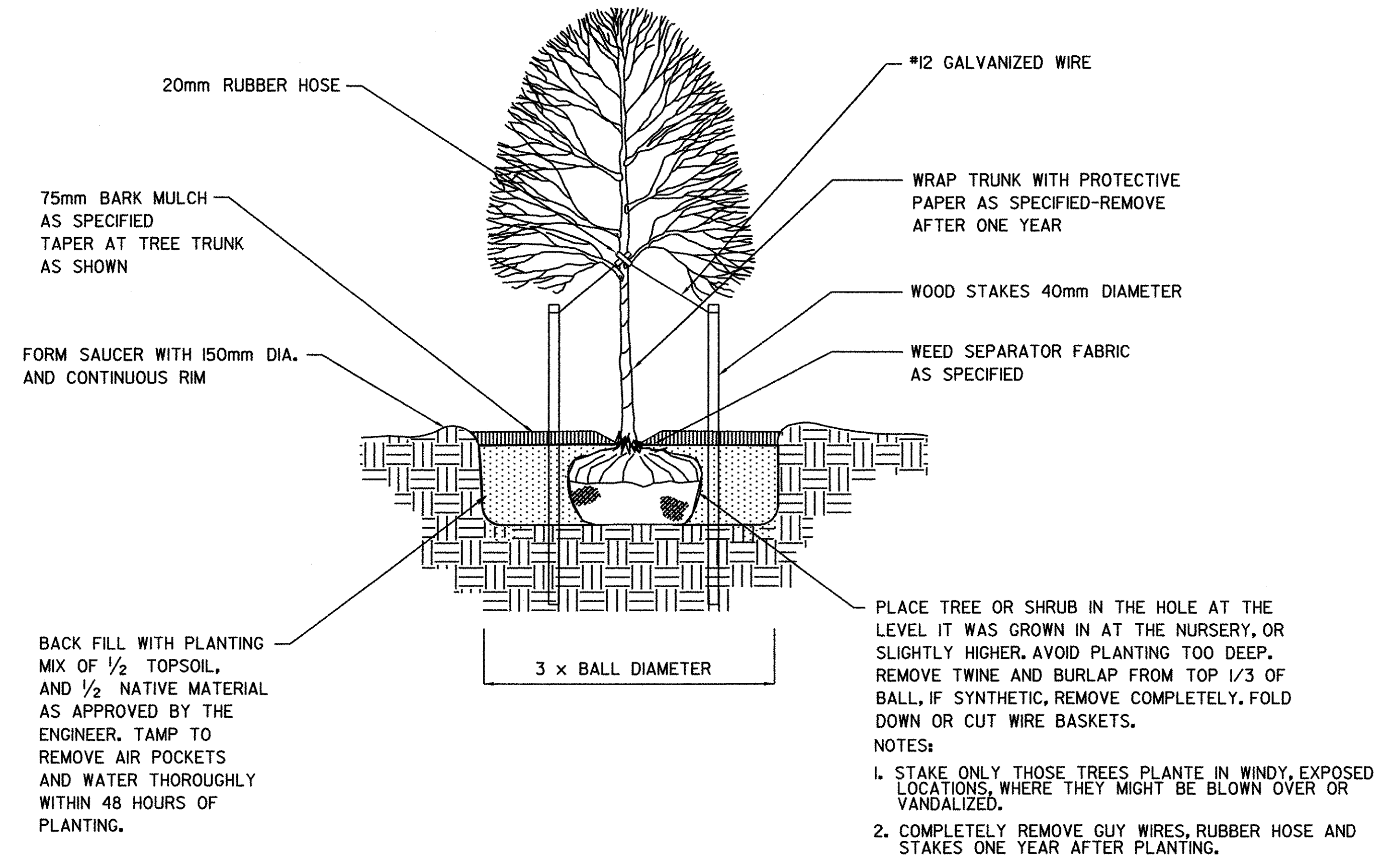
○ DENOTES TREE OR STUMP REMOVAL

ALL DRIVE RADII SHALL BE 6M UNLESS OTHERWISE NOTED PER STD B-71M

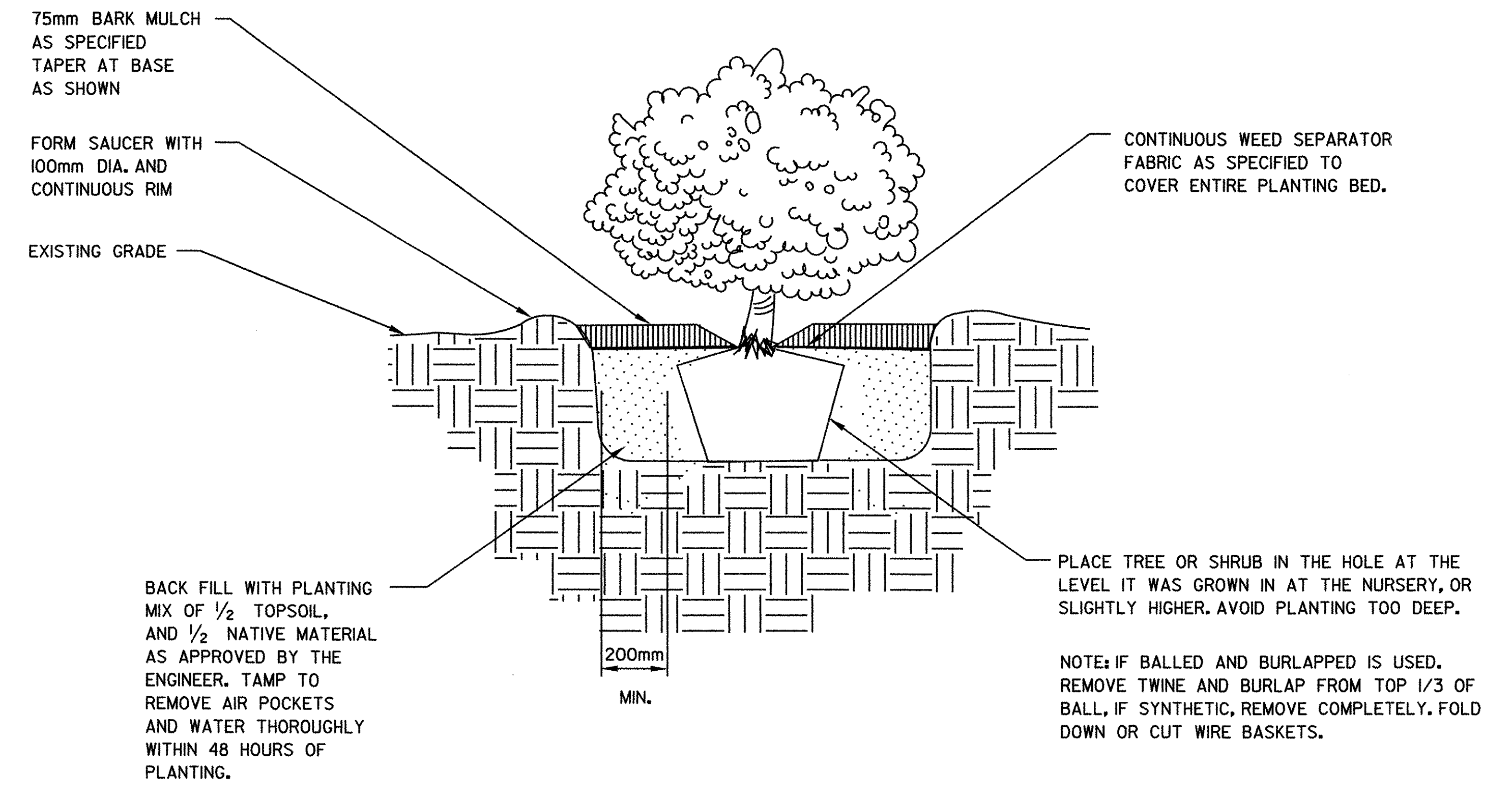
LANDSCAPE PLANS

PROJECT NAME:	FRANKLIN
PROJECT NUMBER:	STP 030(I18)
FILE NAME:	85c060/design/(2)lborec.dgn
PROJECT LEADER:	DELLASANTA
DESIGNED BY:	SQUAD B
IPARM FILE NAME:	(2)dc06in3.1
PLOT DATE:	27-MAR-2003
DRAWN BY:	SQUAD B
CHECKED BY:	SQUAD B
SHEET	42 OF 60

LANDSCAPE DETAIL SHEET



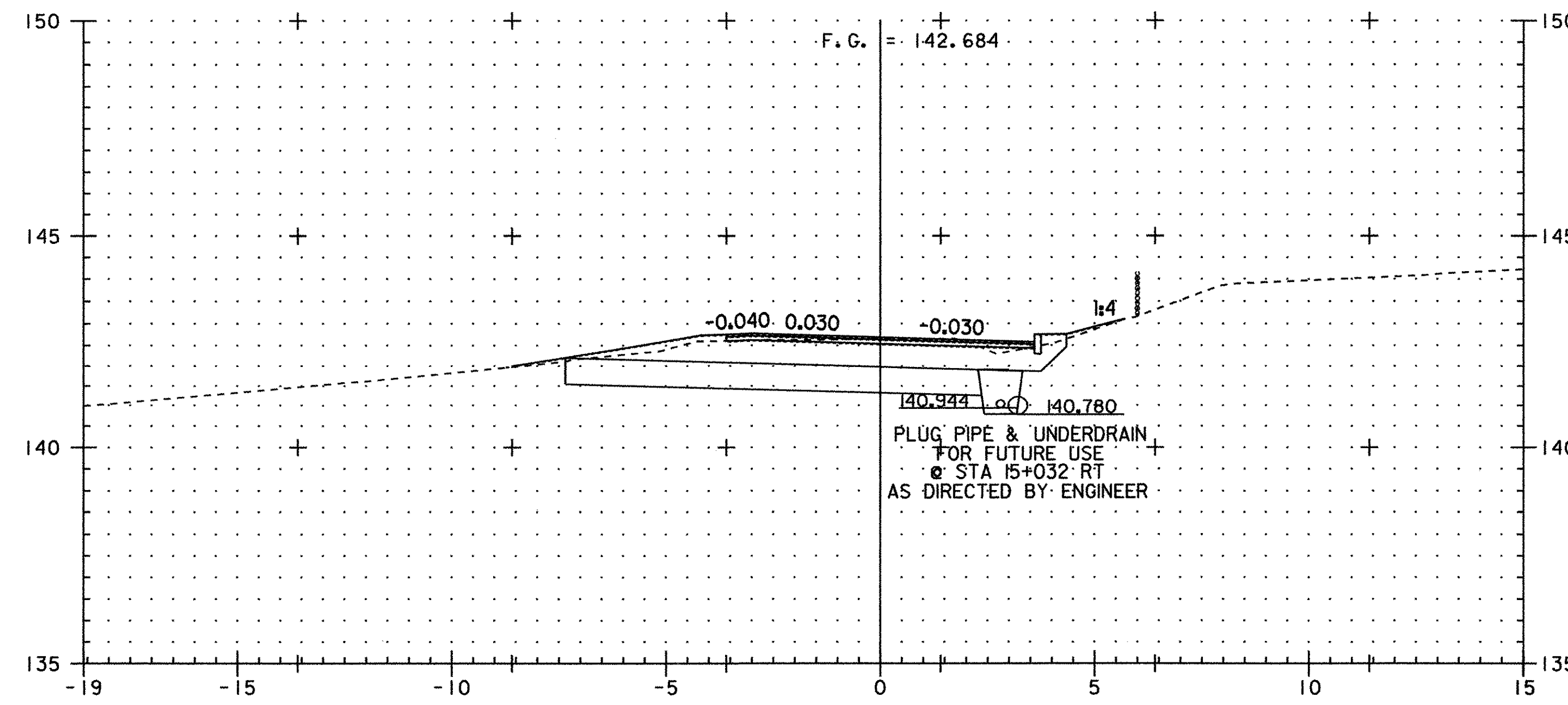
TREE PLANTING DETAIL



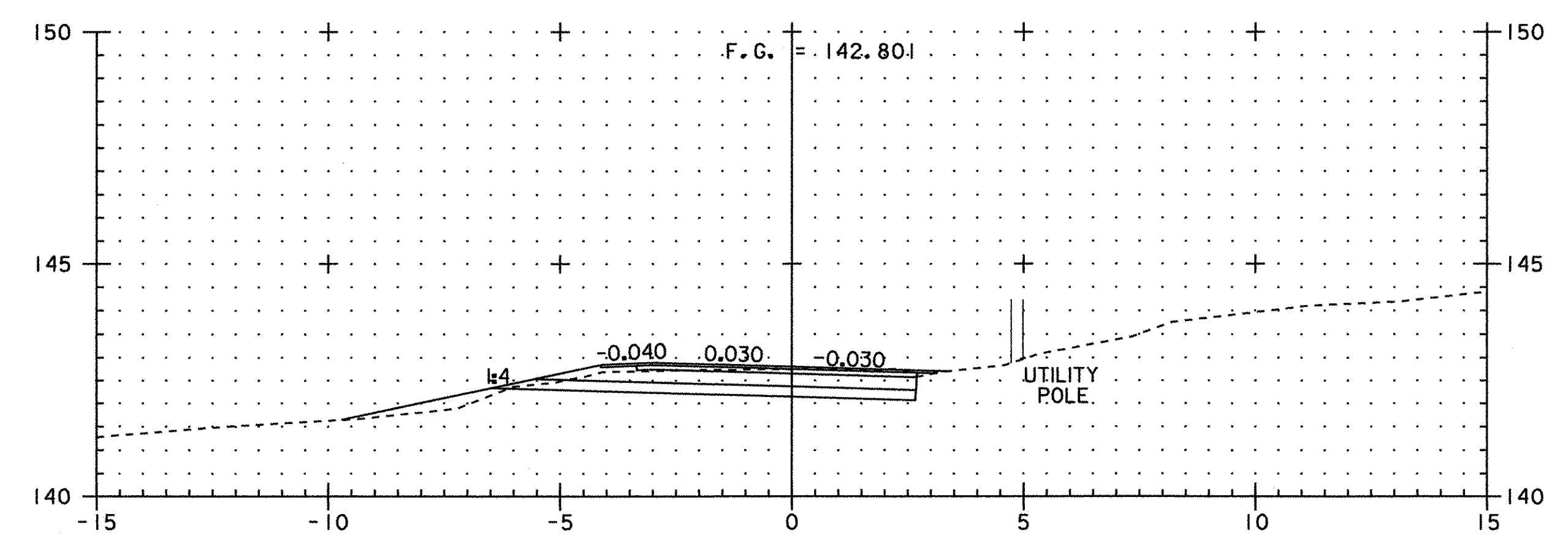
SHRUB PLANTING DETAIL

PRELIMINARY PLANS
NOT TO SCALE

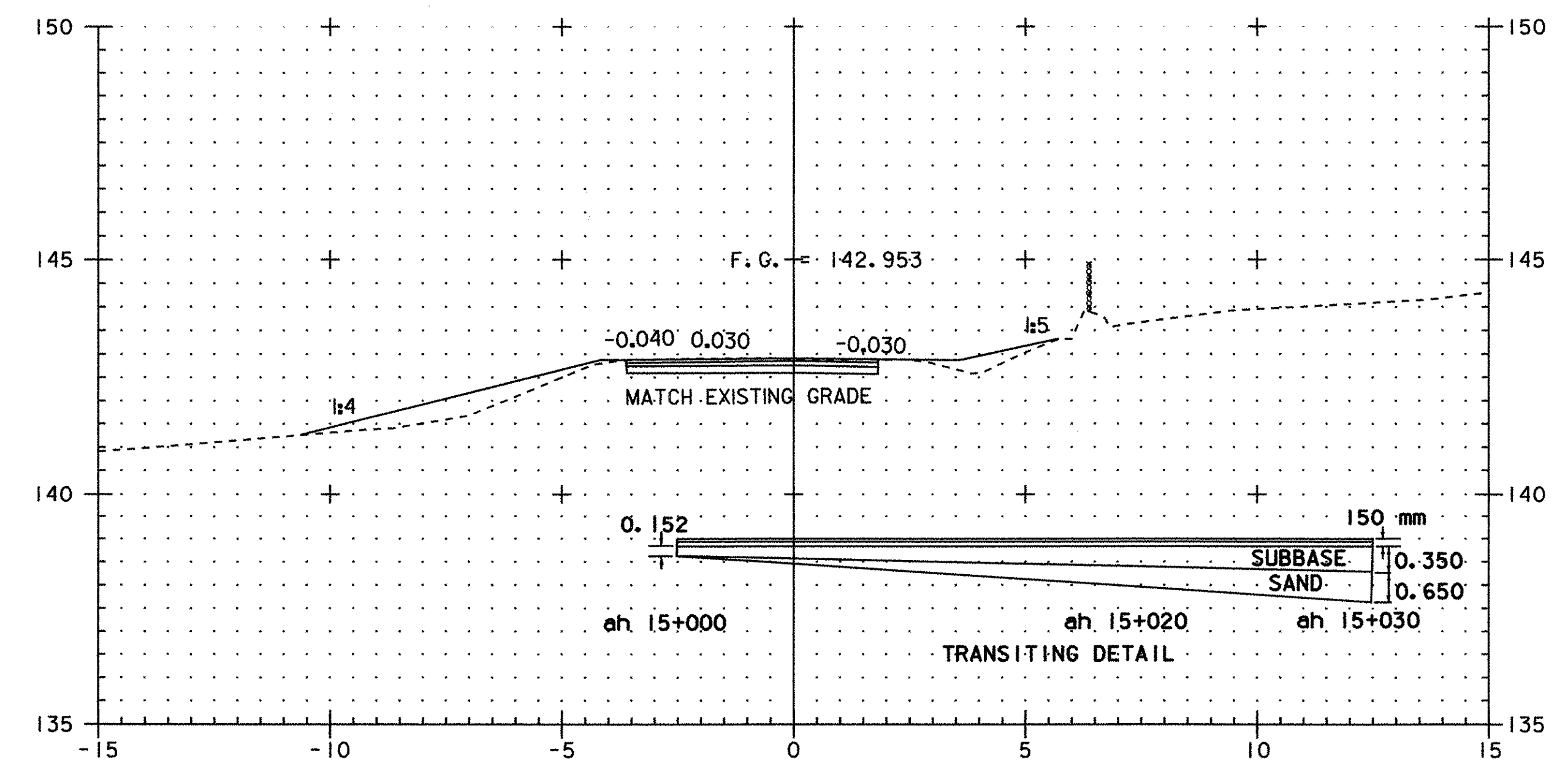
PROJECT NAME:	HIGHGATE - FRANKLIN
PROJECT NUMBER:	STP RS 030(I) SA
FILE NAME:	..85c060/design/(2)dc060ldt.dgn
PROJECT LEADER:	DELLASANTA
DESIGNED BY:	SQUAD B
IPARM FILE NAME:	(2)dc060ldt01.l
PLOT DATE:	20-MAR-2003
DRAWN BY:	SQUAD B
CHECKED BY:	SQUAD B
SHEET	43 OF 60



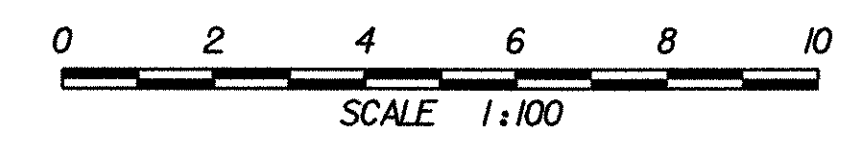
ah 15+034
BEGIN PROJECT



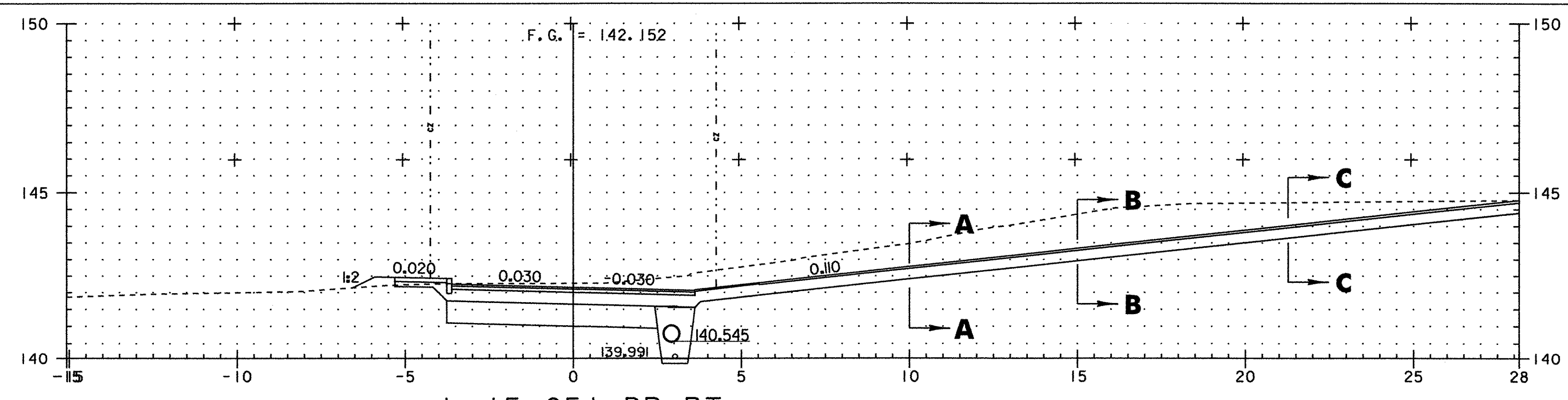
ah 15+020



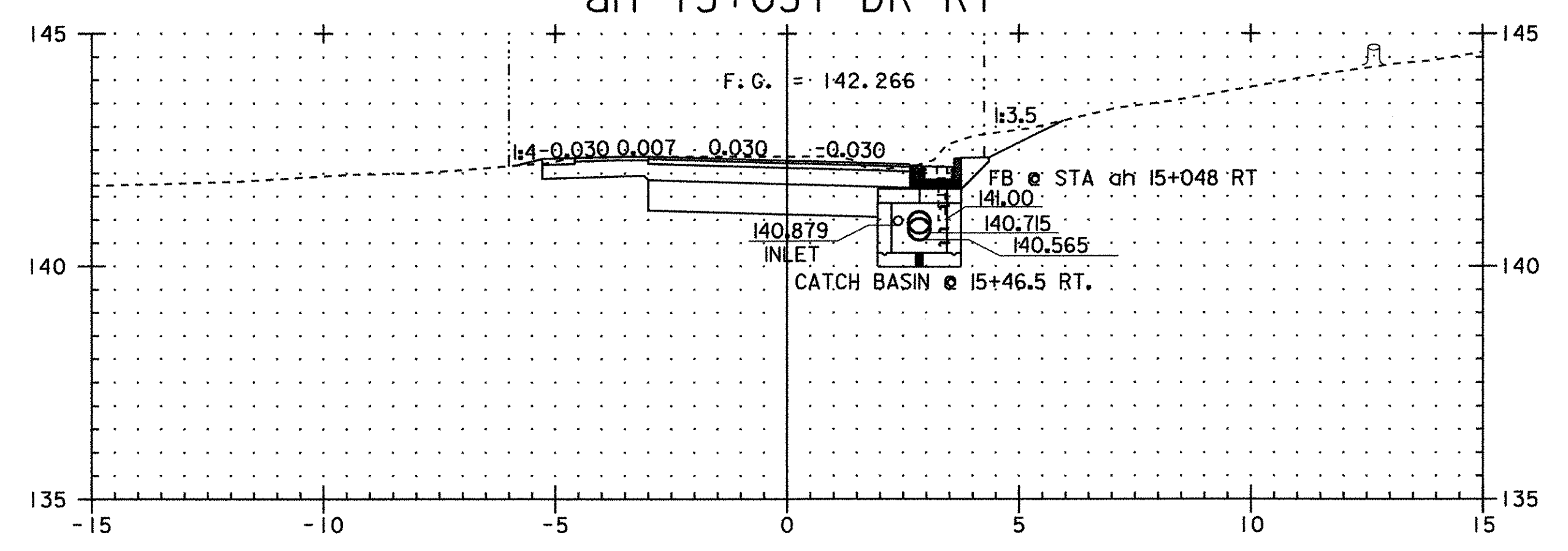
ah 15+000
BEGIN APPROACH CONSTRUCTION



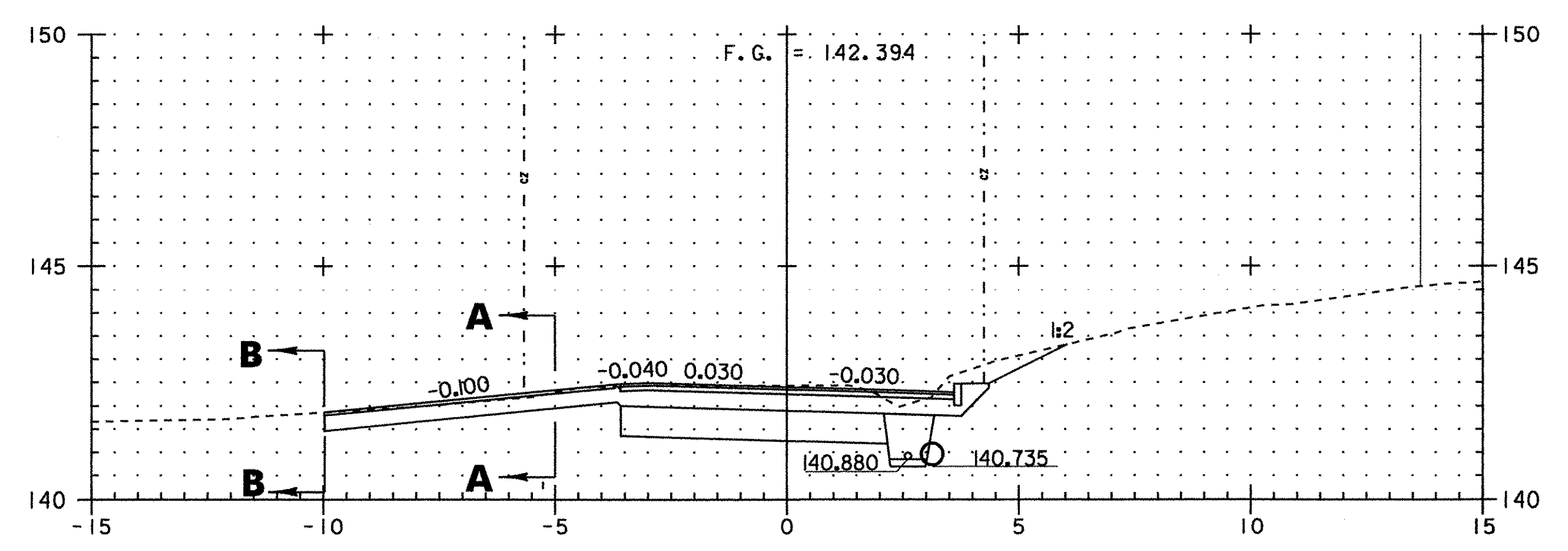
PROJECT NAME:	FRANKLIN
PROJECT NUMBER:	STP 0301(18)
FILE NAME:	...85c060\design\dc060x12.dgn
PROJECT LEADER:	DELLASANTA
DESIGNED BY:	SQUAD B
IPARM FILE NAME:	(2)dc060x01.l
PLOT DATE:	20-MAR-2003
DRAWN BY:	SQUAD B
CHECKED BY:	SQUAD B
SHEET	45 OF 60



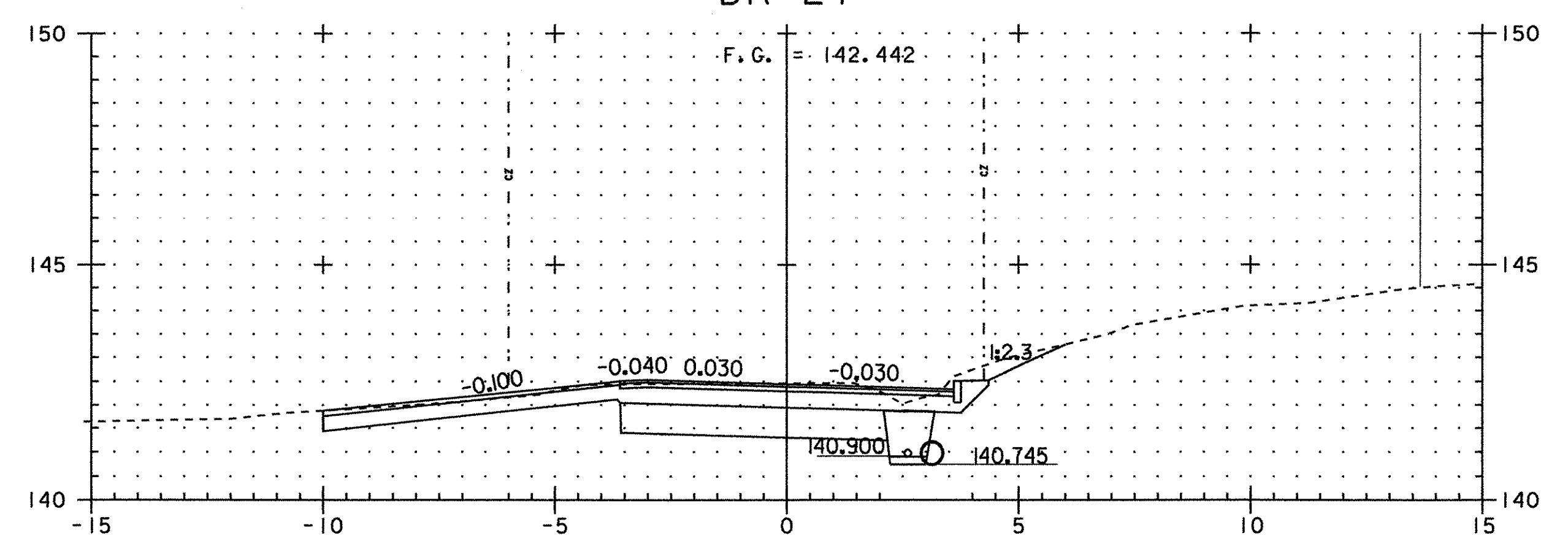
ah 15+051 DR RT



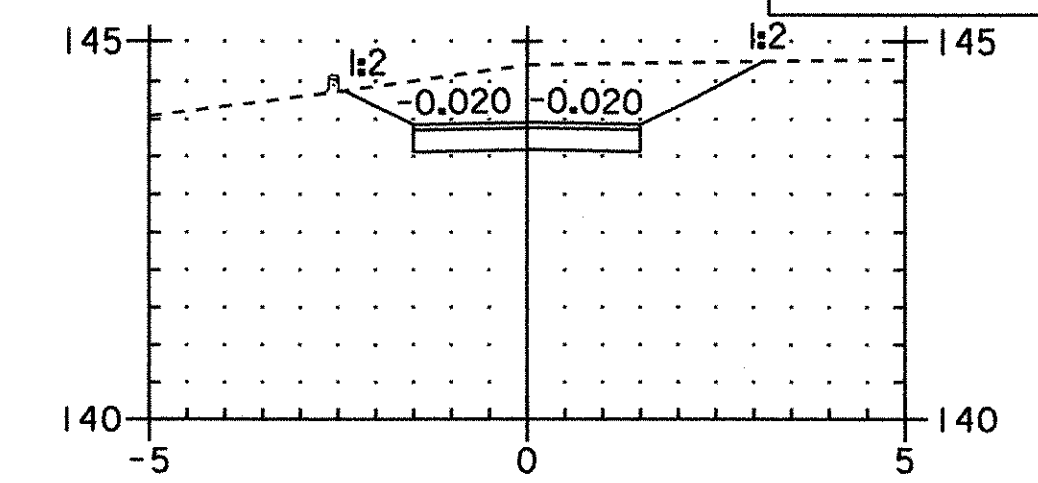
ah 15+047



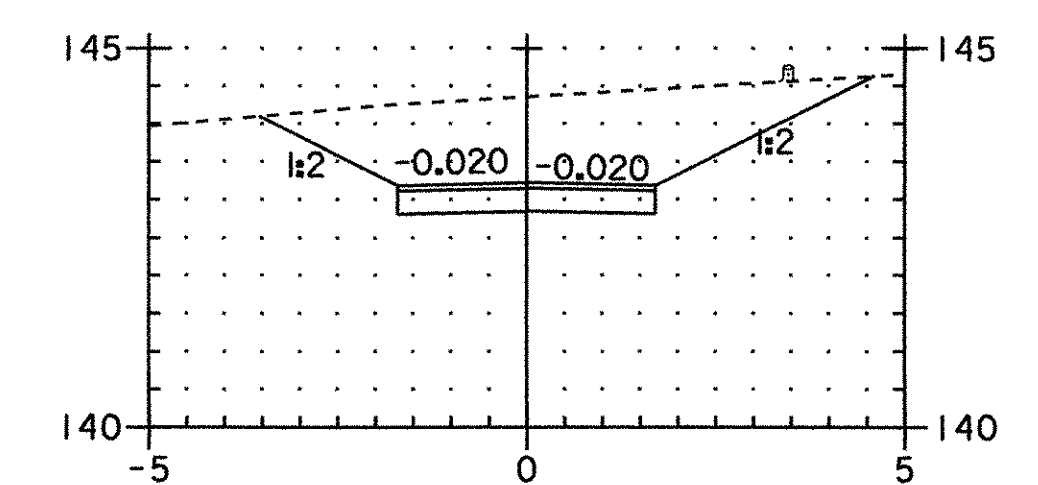
ah 15+042 DR LT



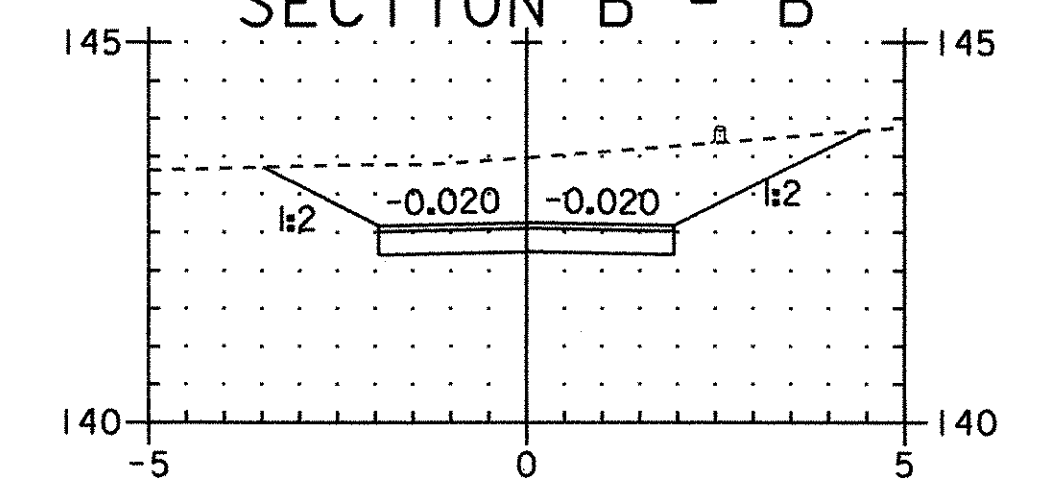
ah 15+040 DR LT



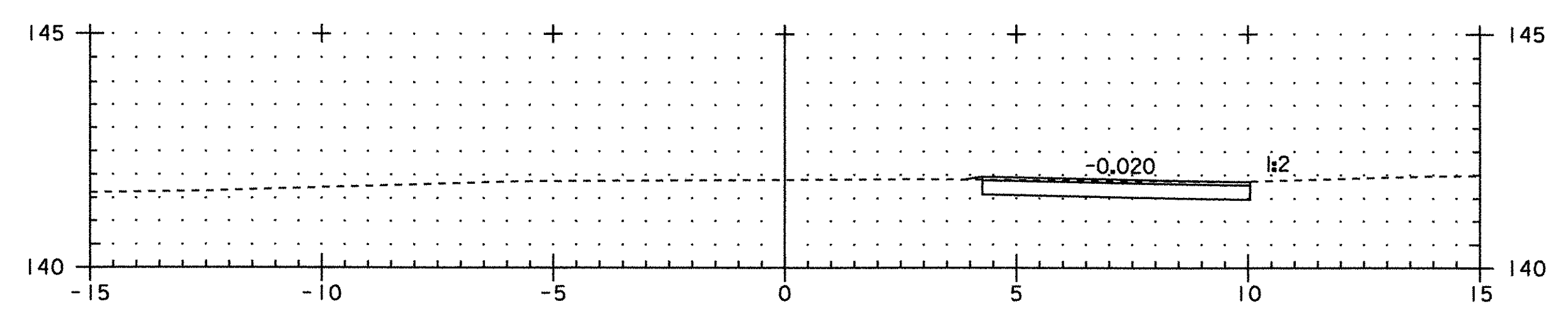
SECTION C - C



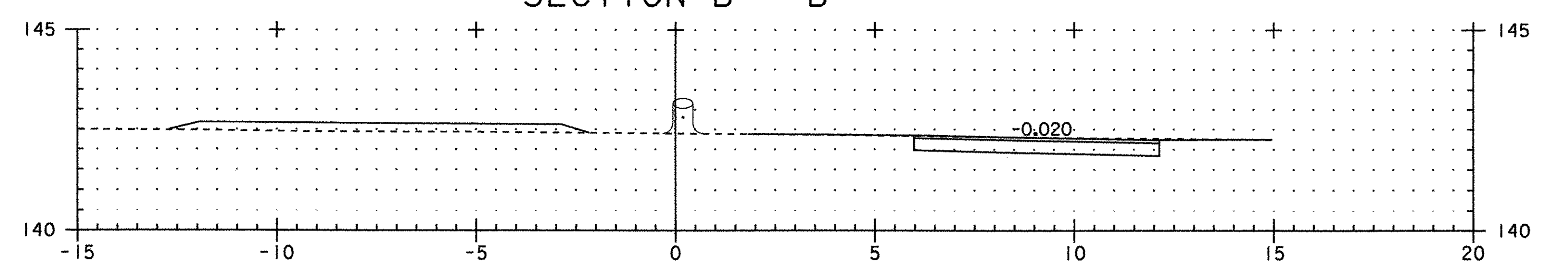
SECTION B - B



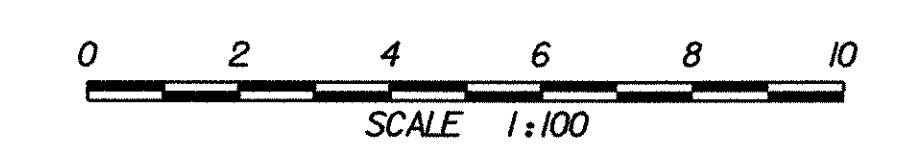
SECTION A - A
DRIVE @ ah 15+051 RT



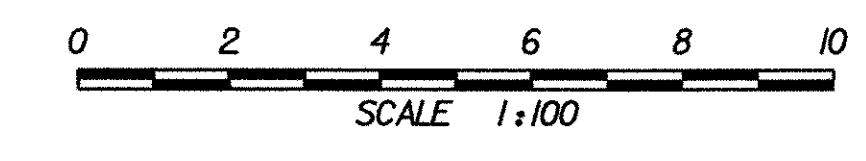
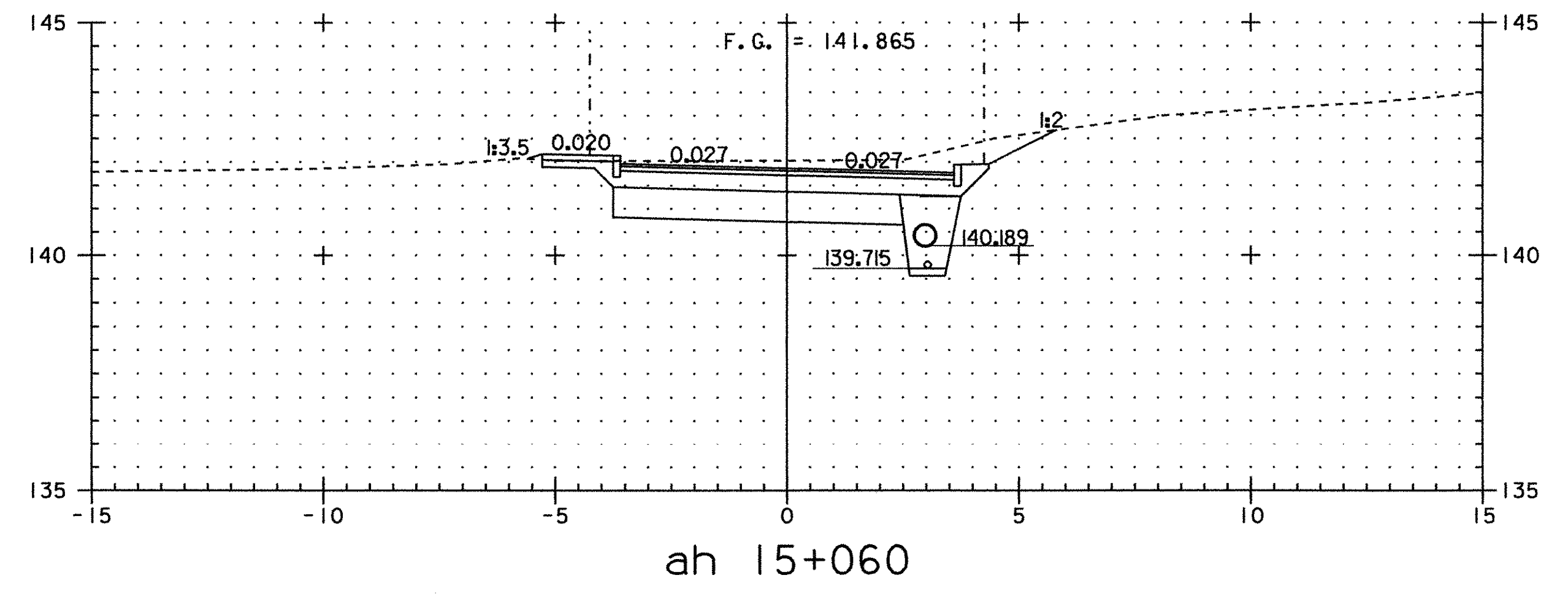
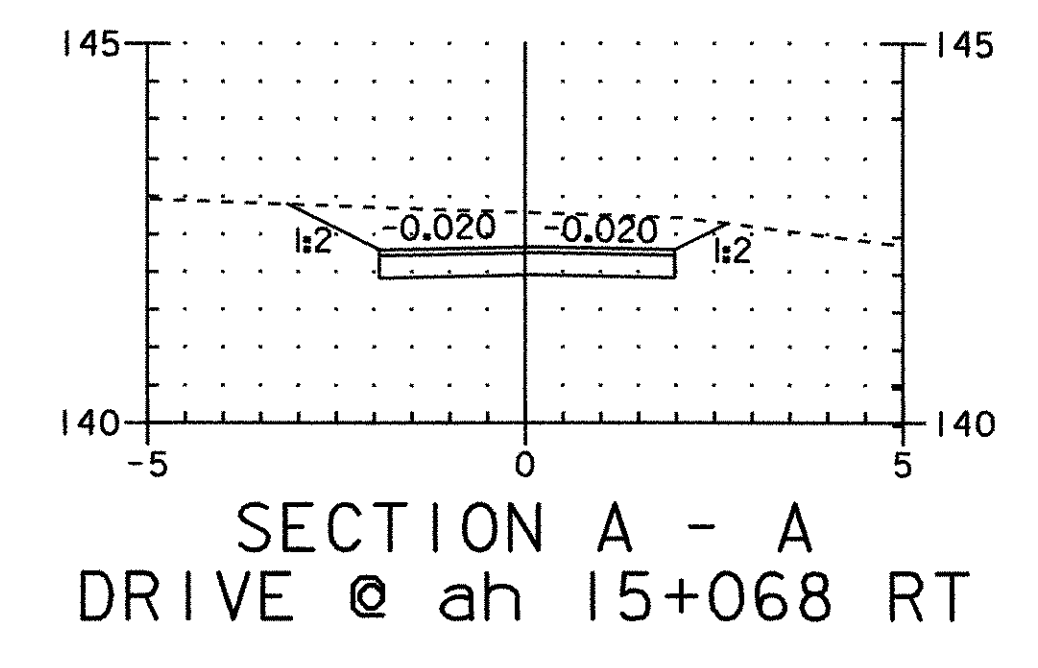
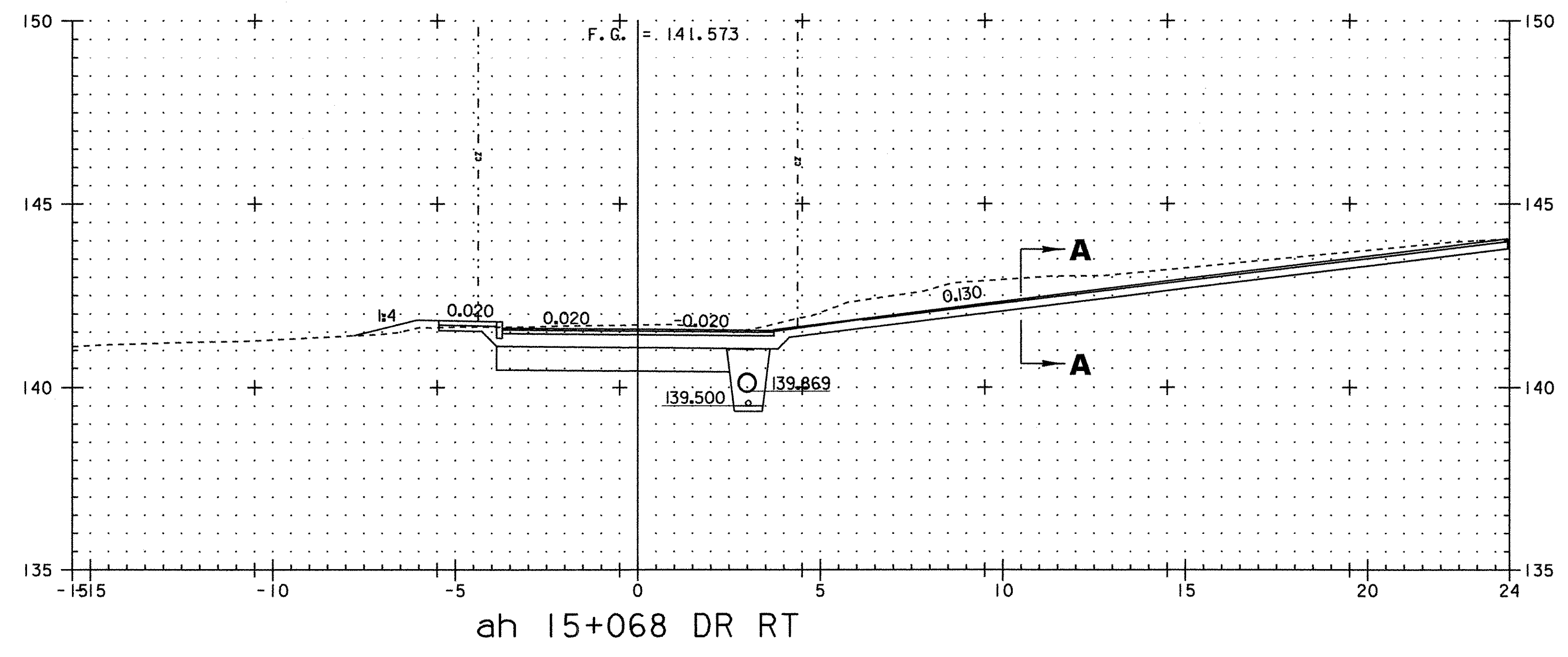
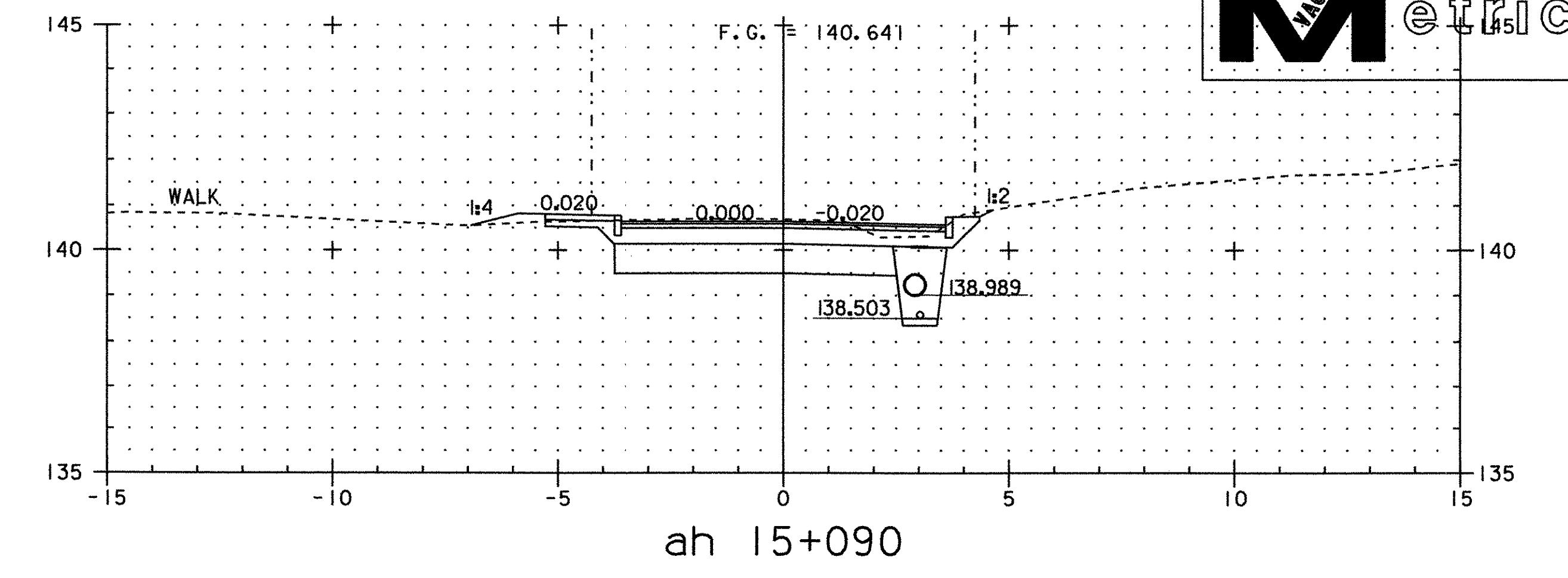
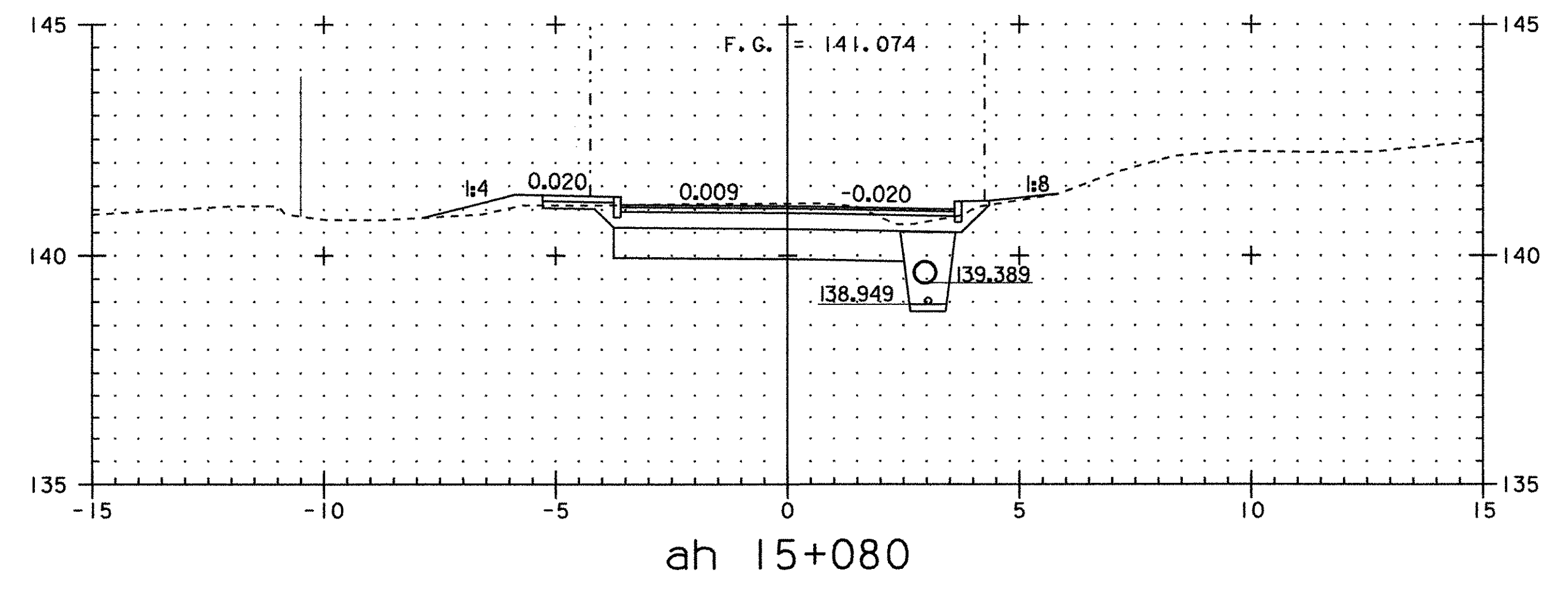
SECTION B - B



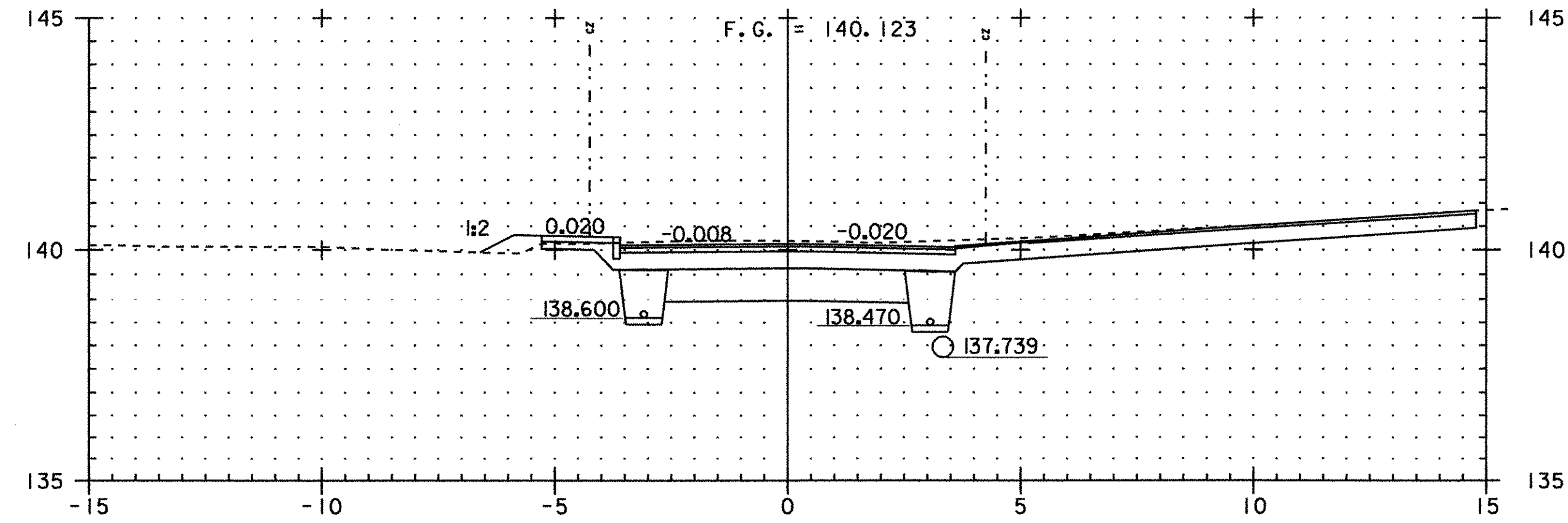
SECTION A - A
DRIVE @ ah 15+028 LT & ah 15+042 LT



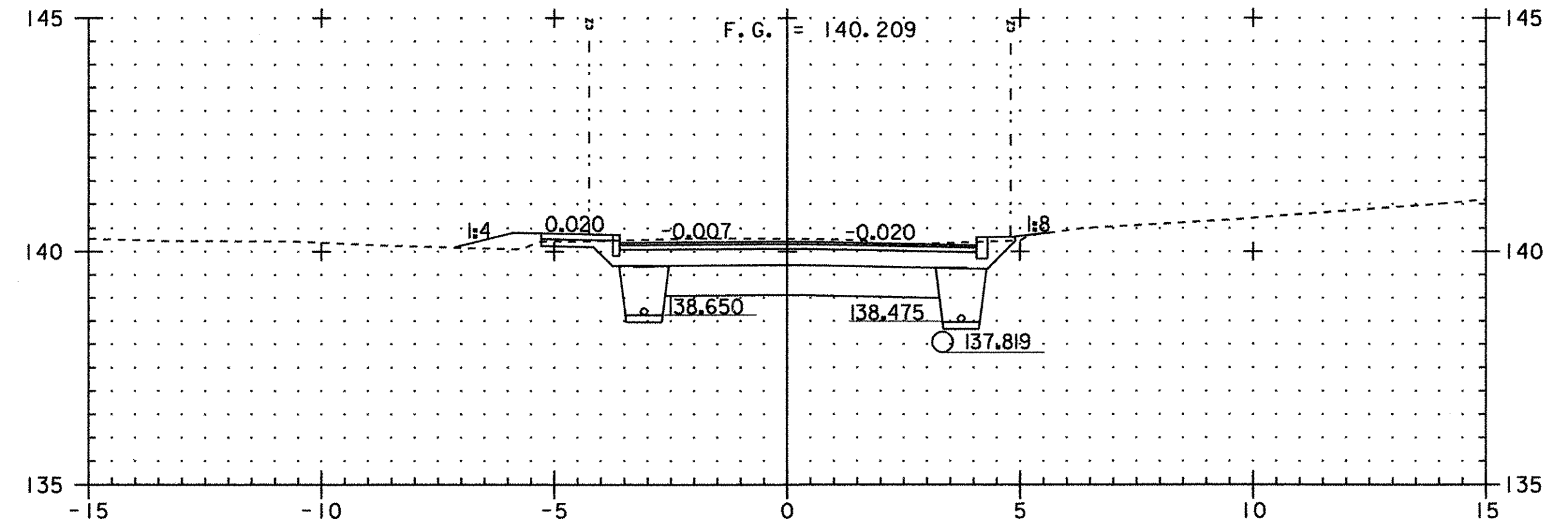
PROJECT NAME:	FRANKLIN	PROJECT NUMBER:	STP 0301(18)
FILE NAME:	...85c060\design\dc060x12.dgn	PLOT DATE:	20-MAR-2003
PROJECT LEADER:	DELLASANTA	DRAWN BY:	SQUAD B
DESIGNED BY:	SQUAD B	CHECKED BY:	SQUAD B
IPARM FILE NAME:	(2)dc060x02.1	SHEET	46 OF 60



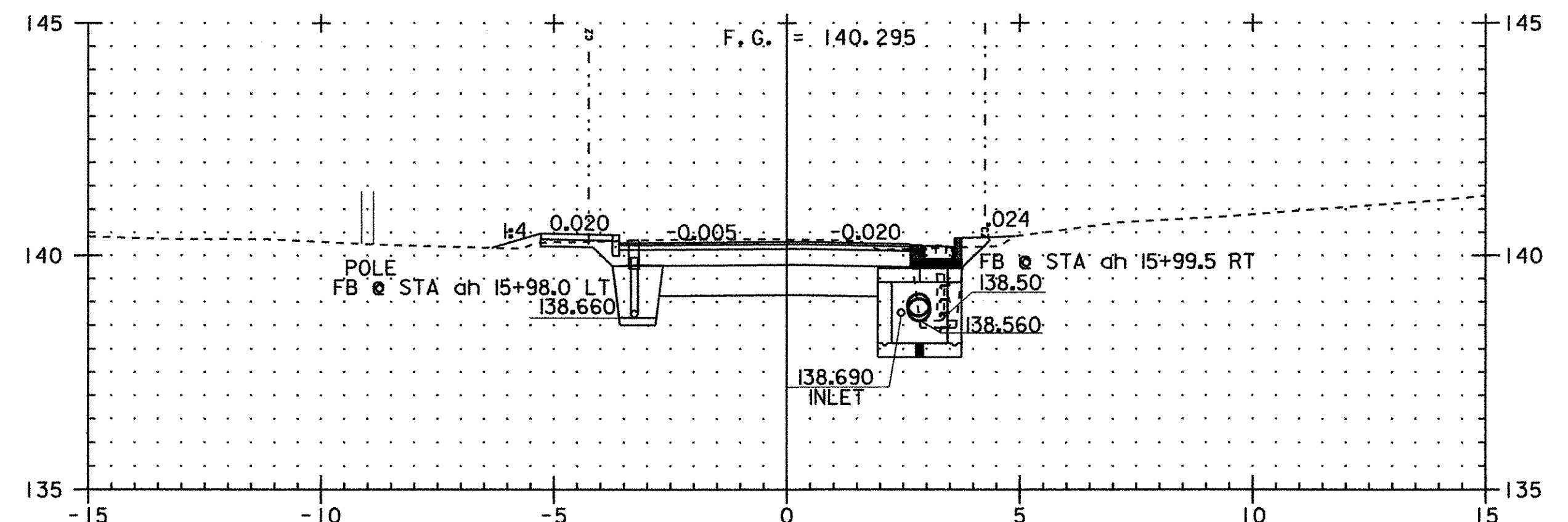
PROJECT NAME:	FRANKLIN
PROJECT NUMBER:	STP 0301(18)
FILE NAME:	...85c060\design\dc060x12.dgn
PROJECT LEADER:	DELLASANTA
DESIGNED BY:	SQUAD B
IPARM FILE NAME:	(2)dc060x03.l
PLOT DATE:	20-MAR-2003
DRAWN BY:	SQUAD B
CHECKED BY:	SQUAD B
SHEET	47 OF 60



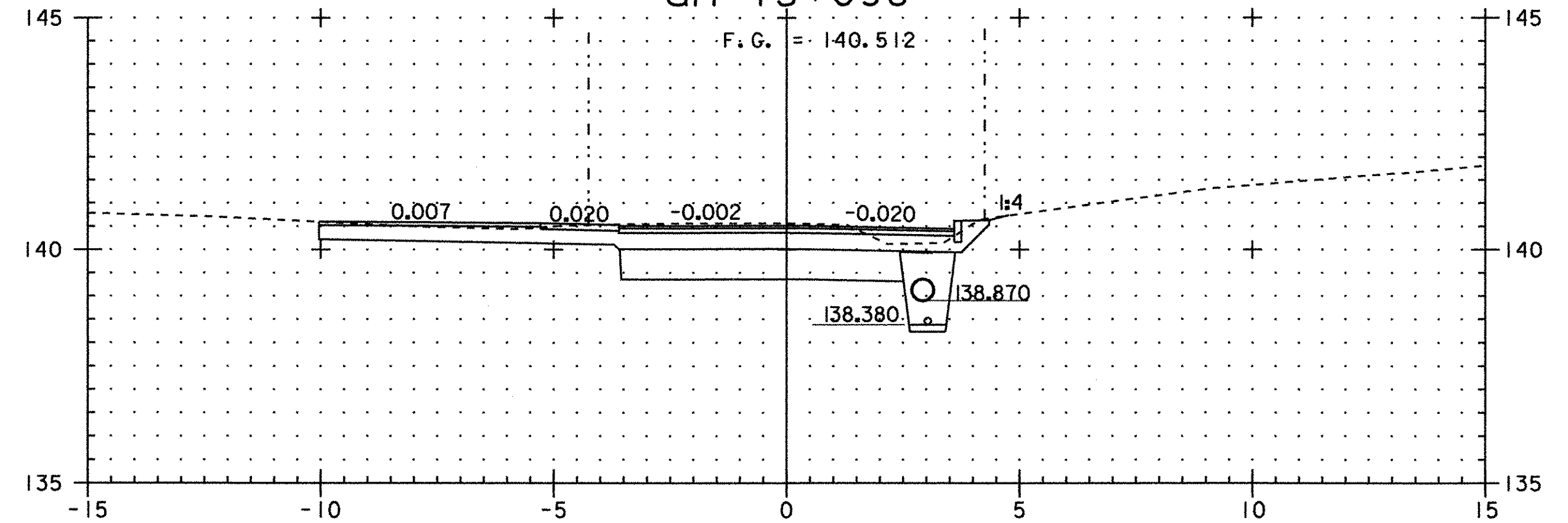
ah 15+102 DR RT



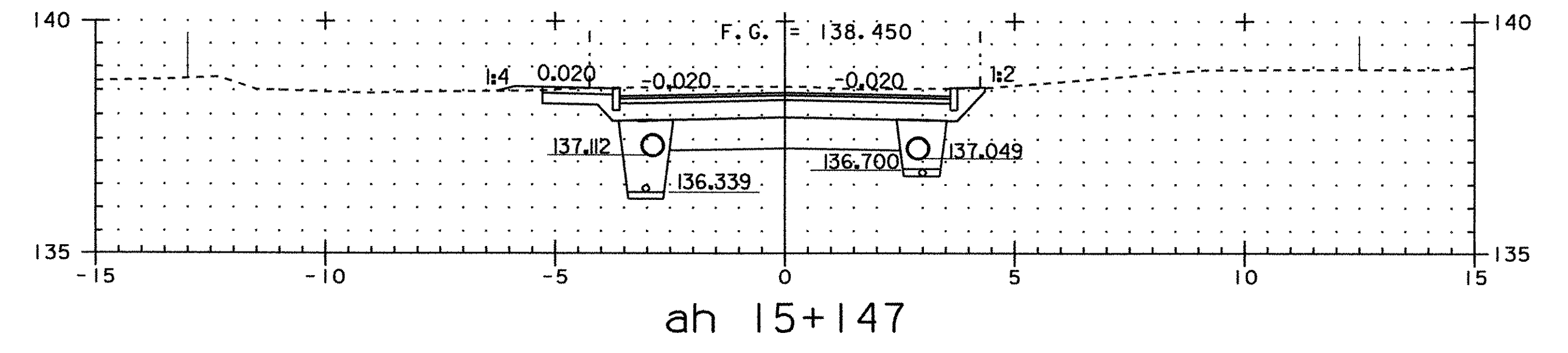
ah 15+100



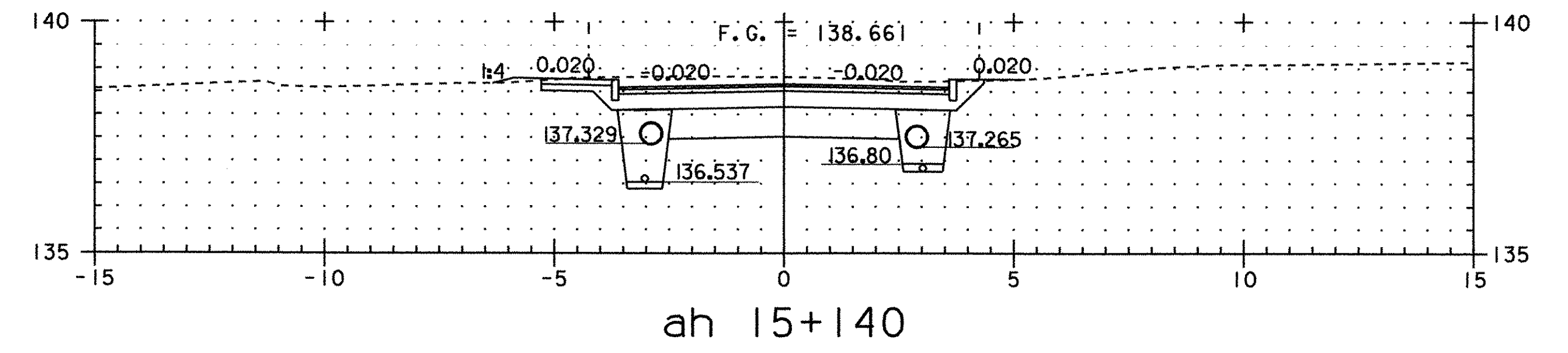
ah 15+098



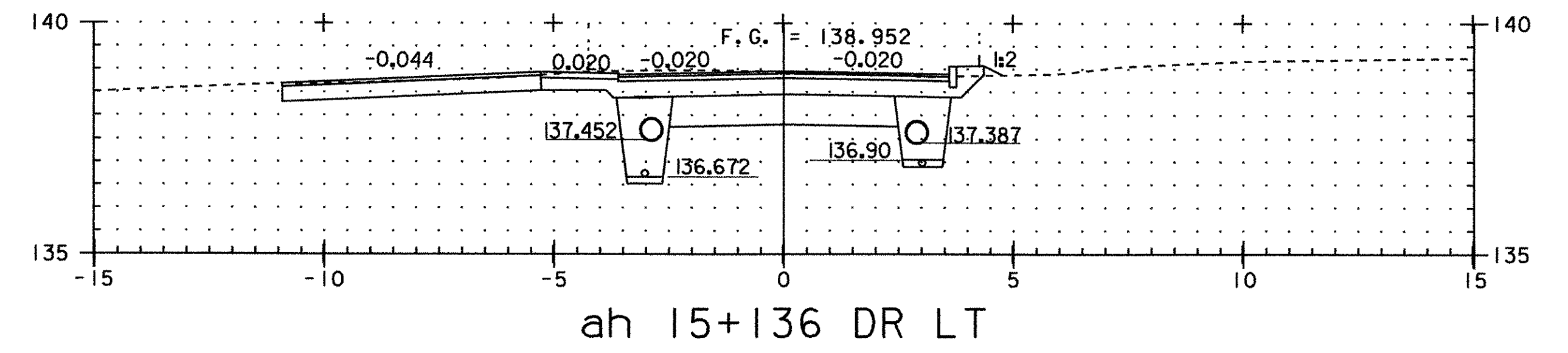
ah 15+093 DR LT



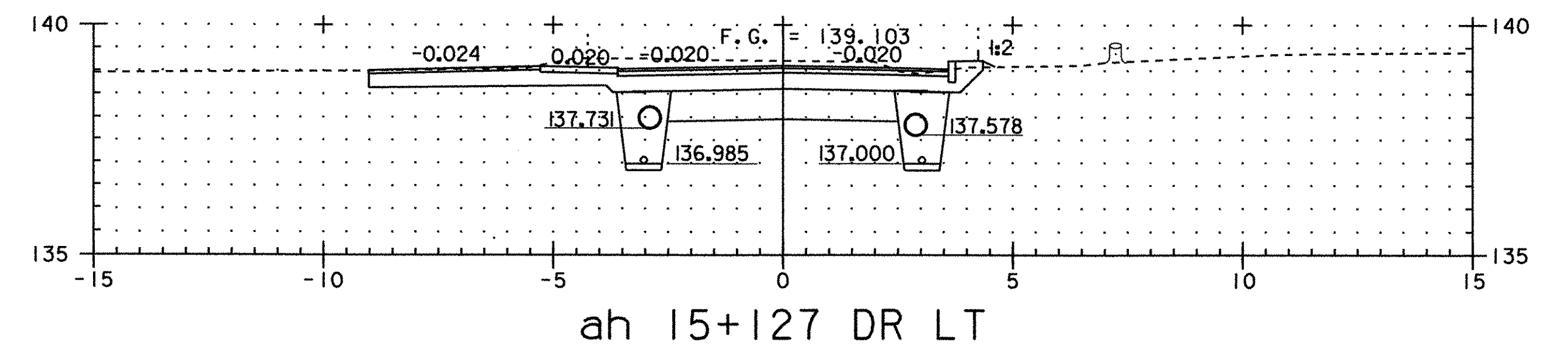
ah 15+147



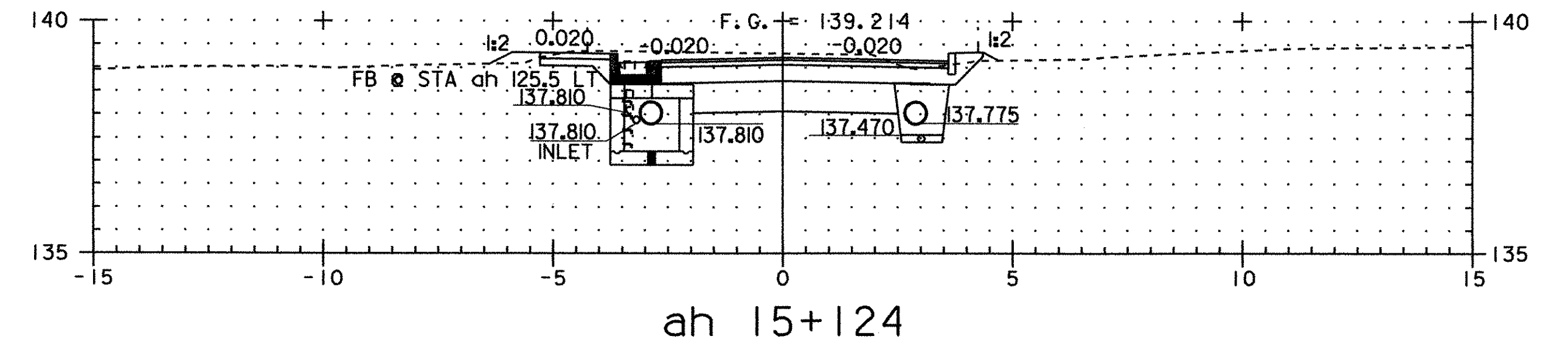
ah 15+140



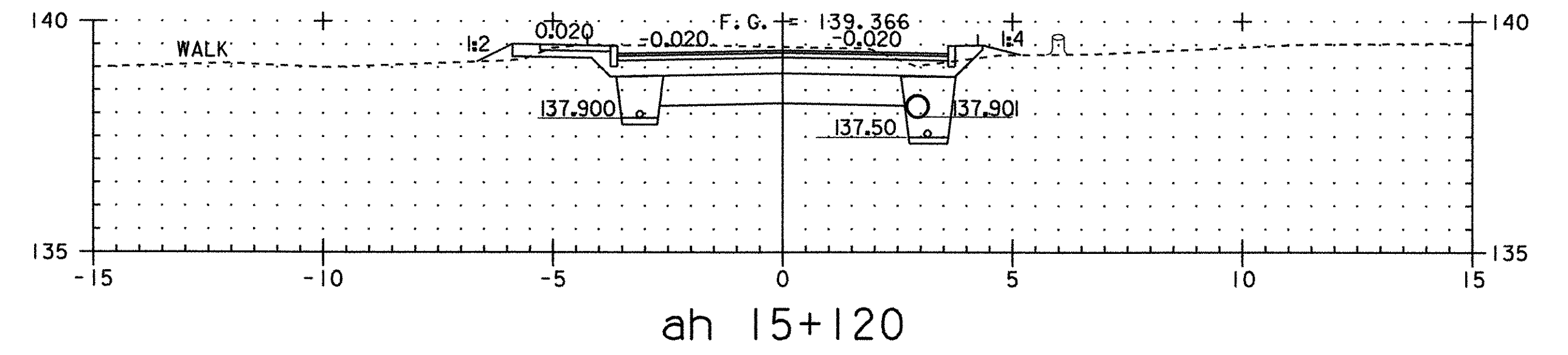
ah 15+136 DR LT



ah 15+127 DR LT



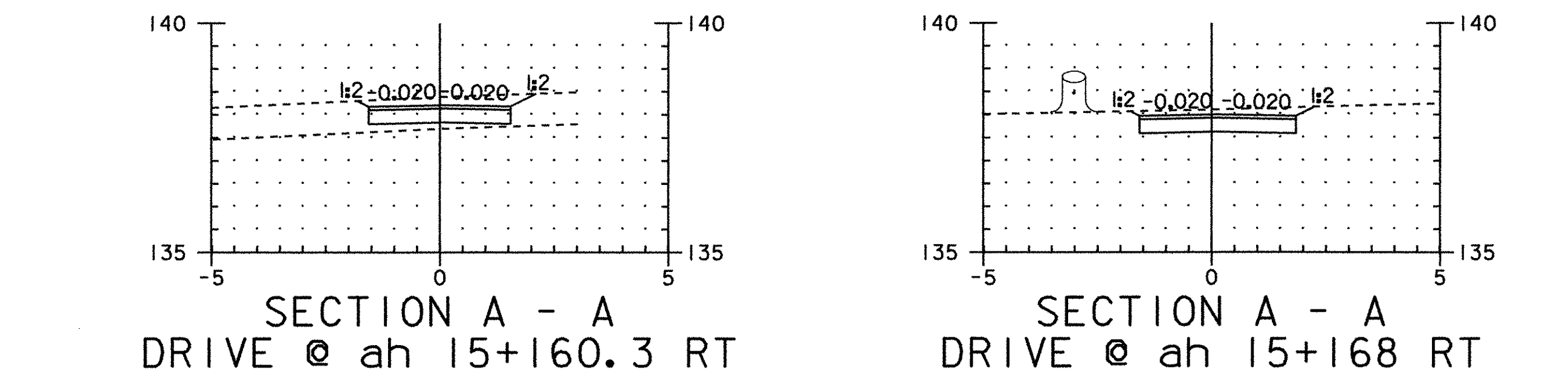
ah 15+124



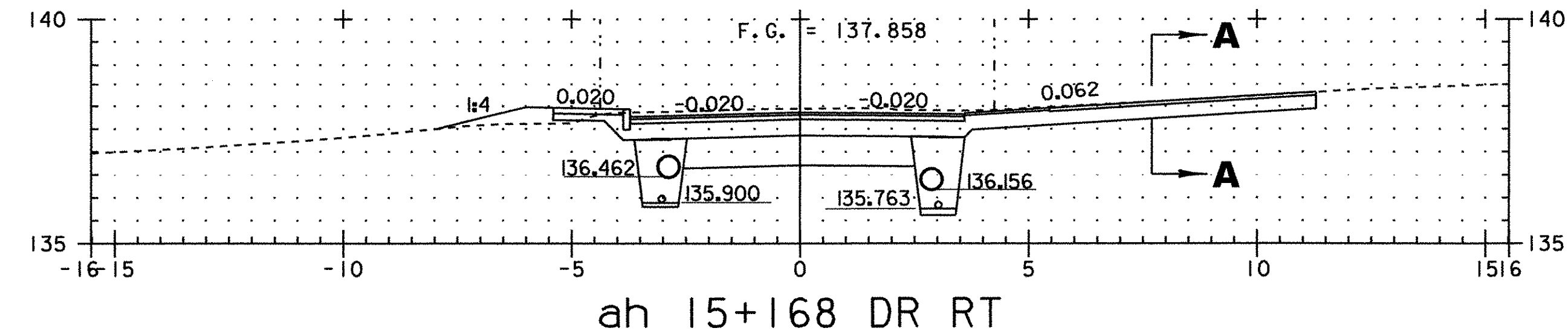
ah 15+120



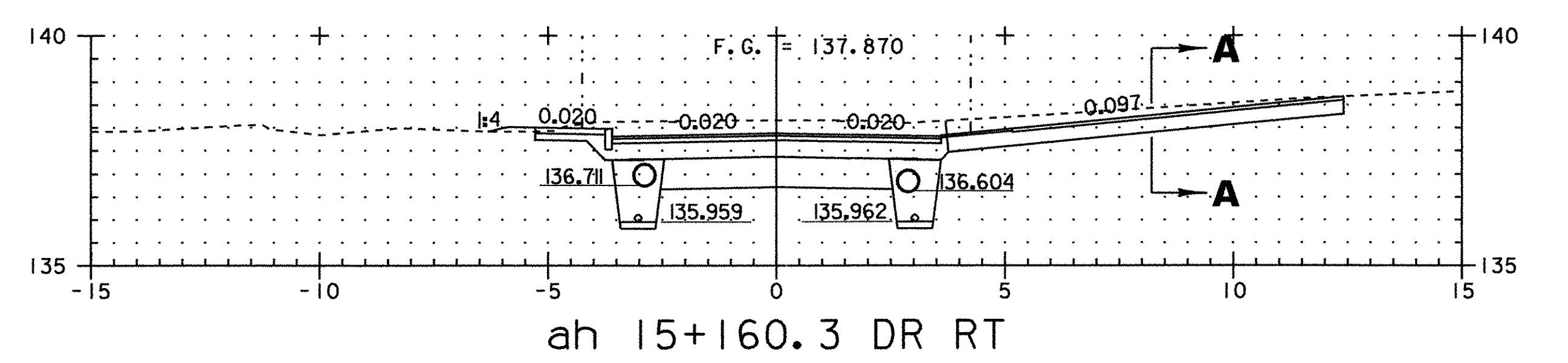
PROJECT NAME:	FRANKLIN	PLOT DATE:	20-MAR-2003
PROJECT NUMBER:	STP 0301(18)	PROJECT LEADER:	DELLASANTA
FILE NAME:	...85c060\design\dc060x12.dgn	DESIGNED BY:	SQUAD B
		CHECKED BY:	SQUAD B
		IPARM FILE NAME:	(2)dc060x04.I
			SHEET 48 OF 60



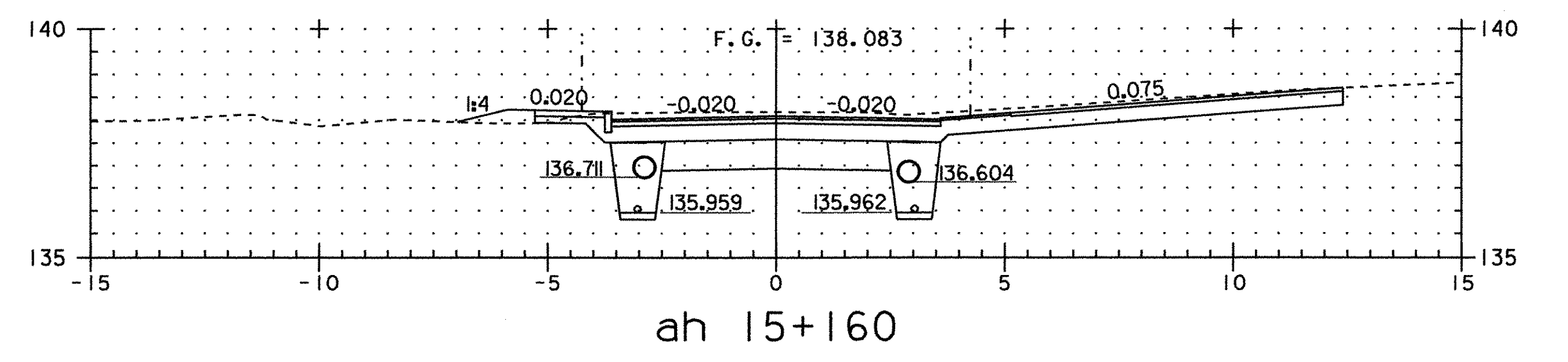
SECTION A - A
DRIVE @ ah 15+168 RT



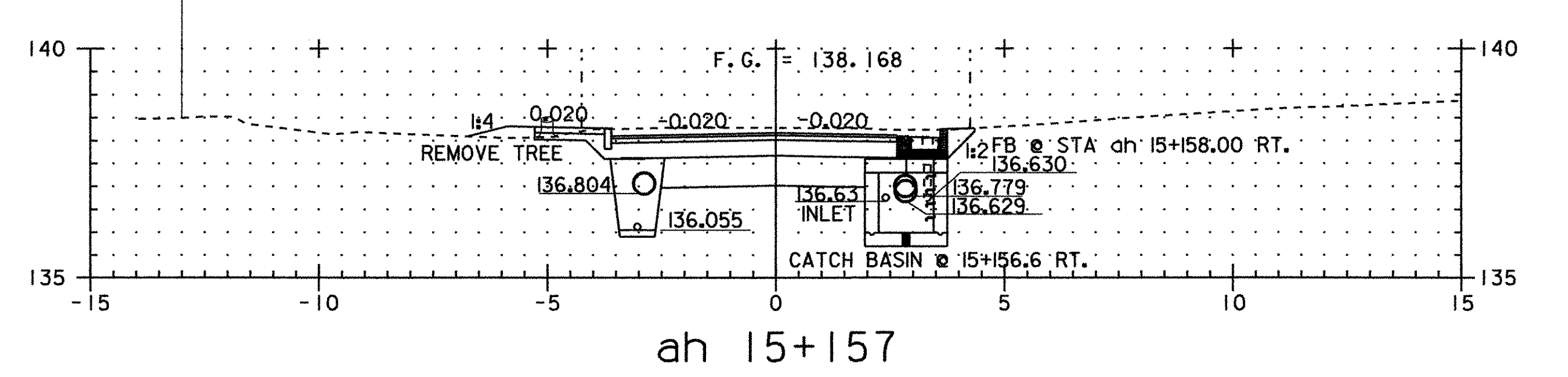
ah 15+168 DR RT



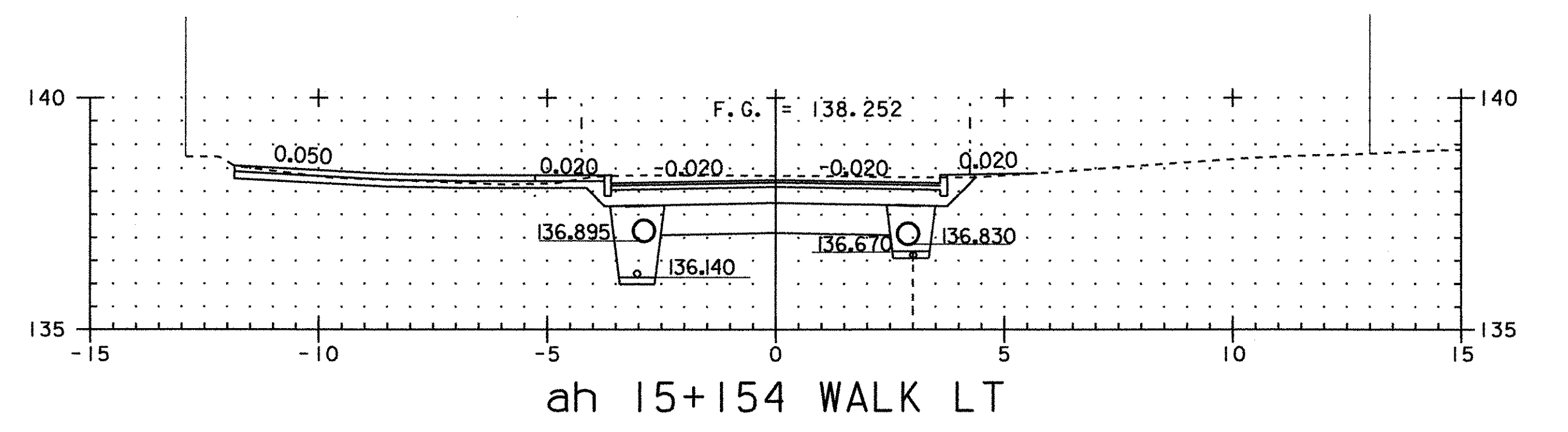
ah 15+160.3 DR RT



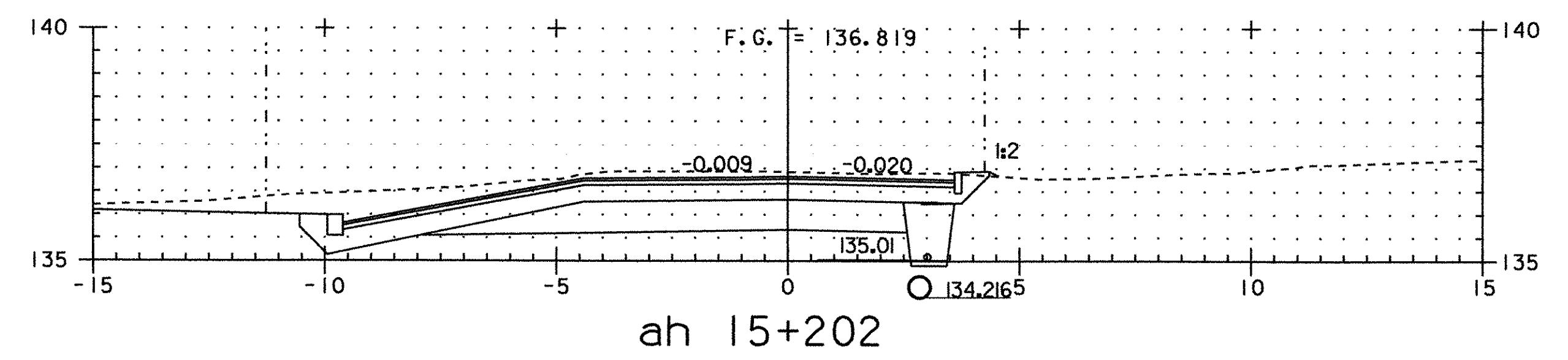
ah 15+160



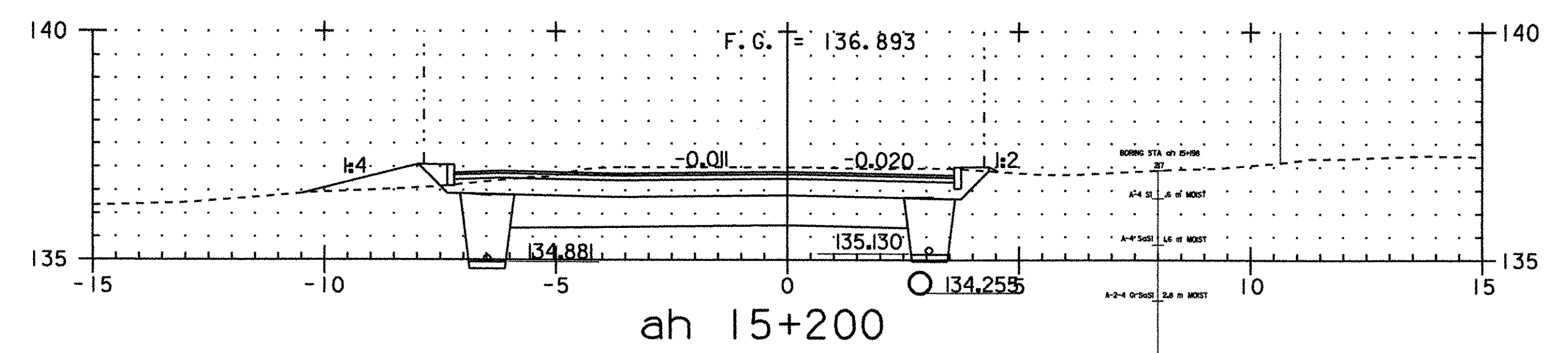
ah 15+157



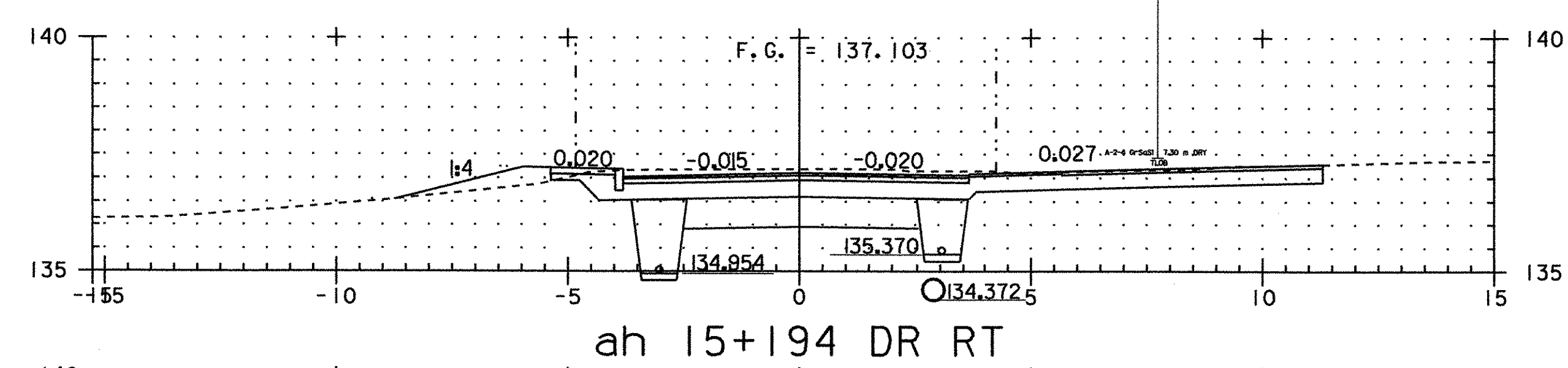
ah 15+154 WALK LT



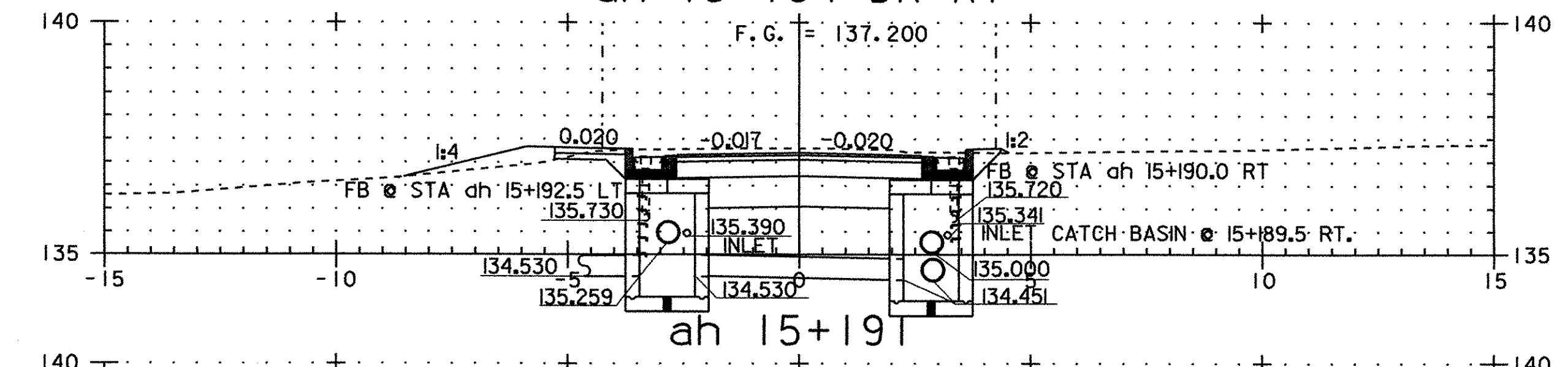
ah 15+202



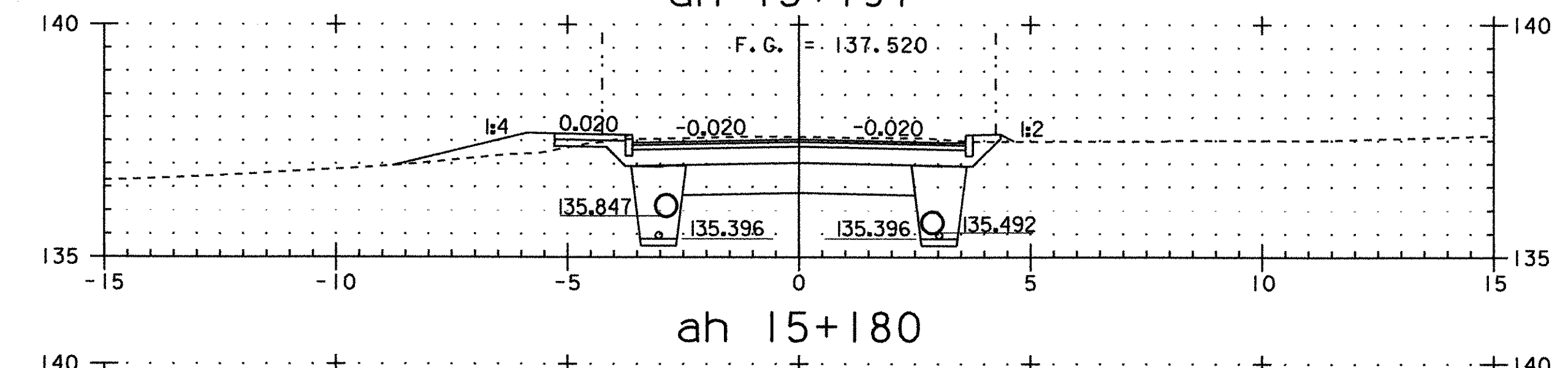
ah 15+200



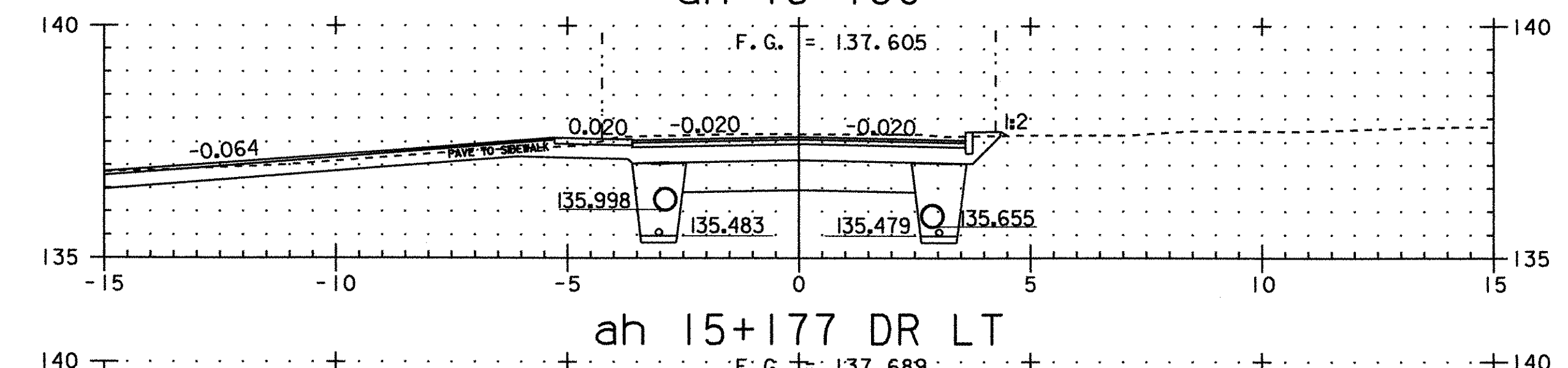
ah 15+194 DR RT



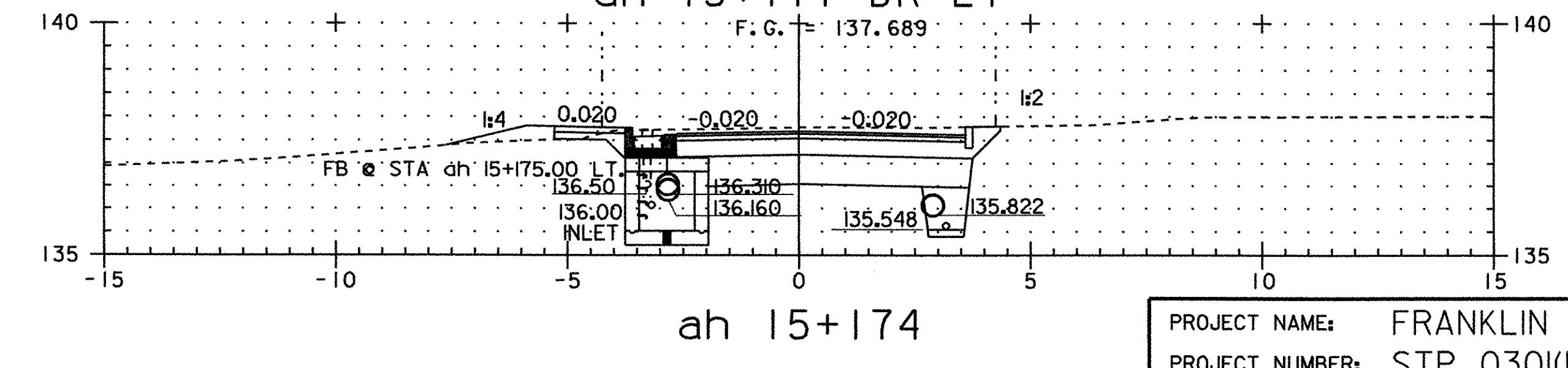
ah 15+191



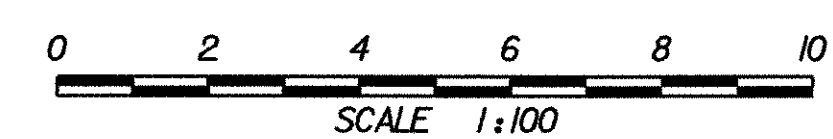
ah 15+180



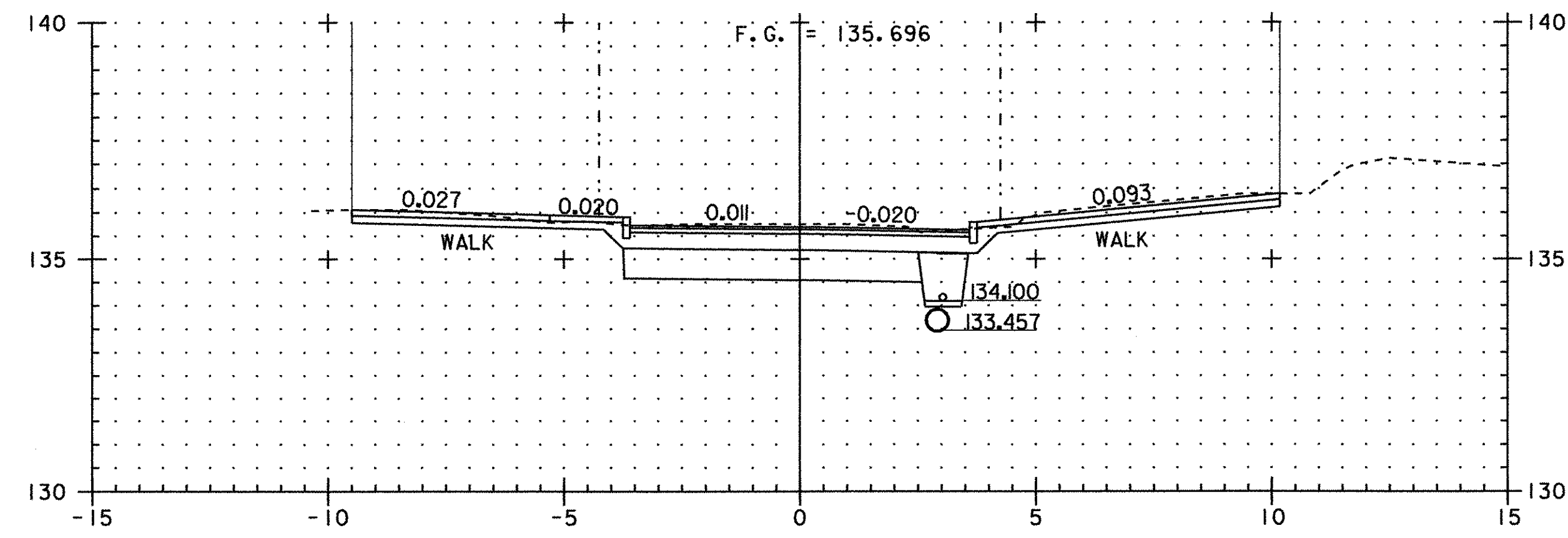
ah 15+177 DR LT



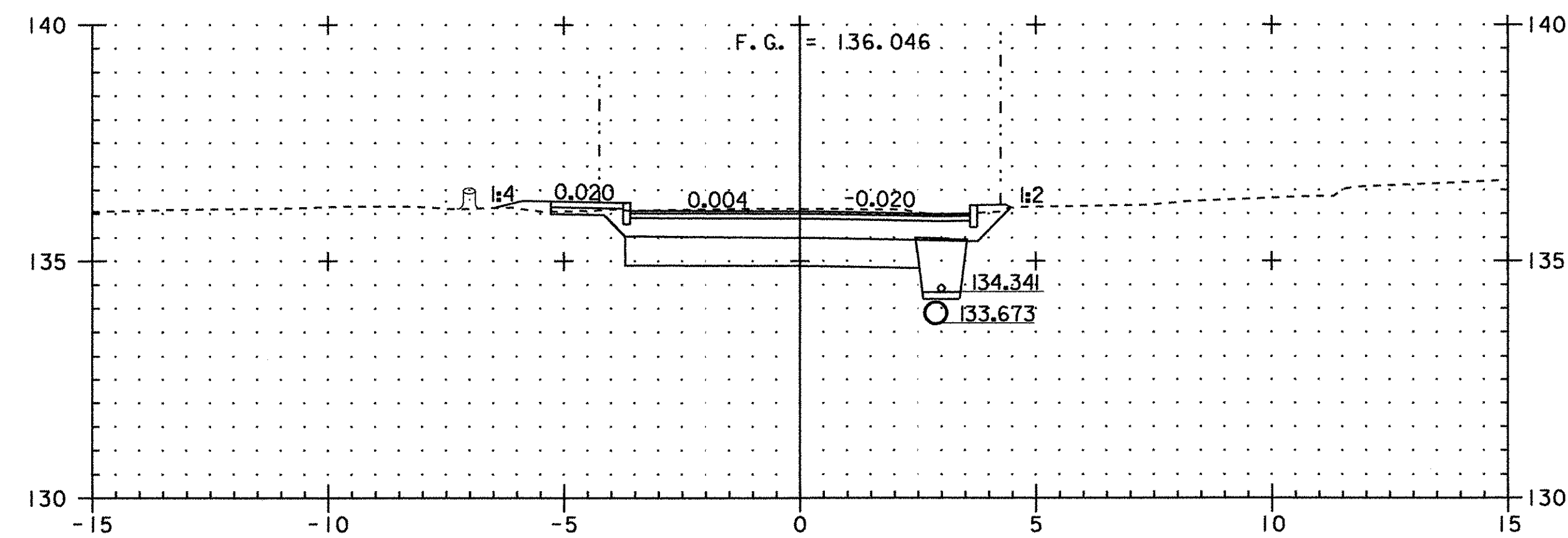
ah 15+174



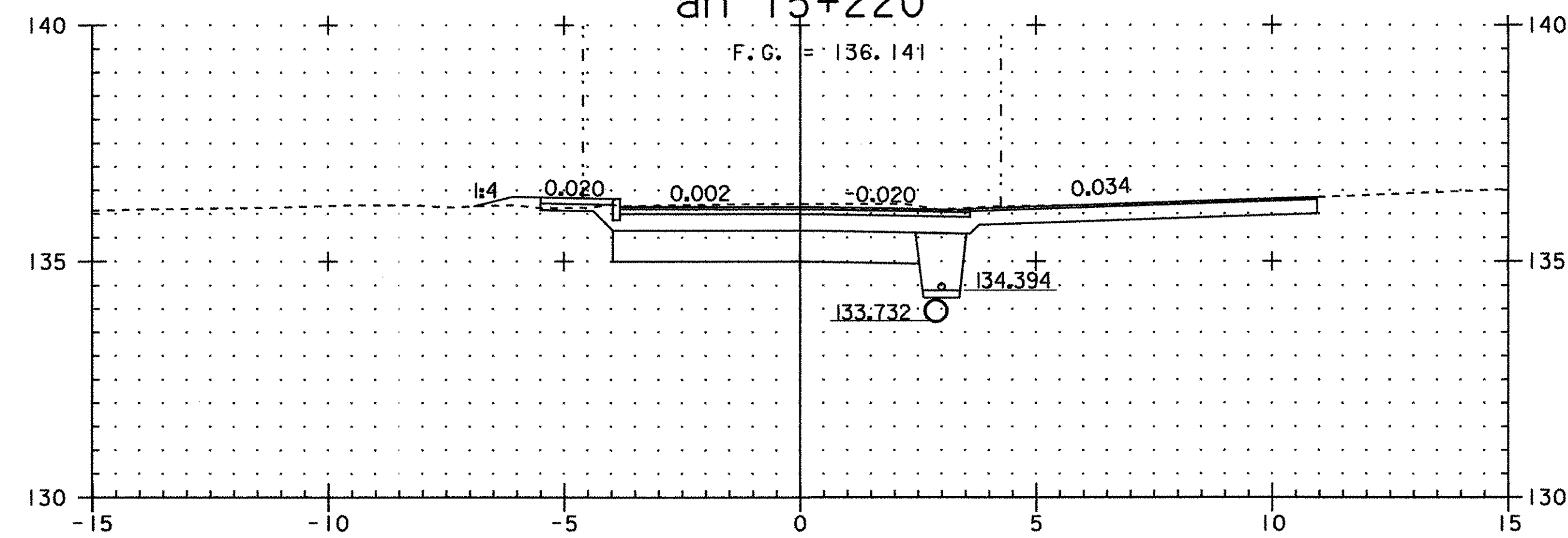
PROJECT NAME:	FRANKLIN	PLOT DATE:	20-MAR-2003
PROJECT NUMBER:	STP 0301(18)	PROJECT LEADER:	DELLASANTA
DESIGNED BY:	SQUAD B	DRAWN BY:	SQUAD B
IPARM FILE NAME:	(2)dc060x05.1	CHECKED BY:	SQUAD B
		SHEET	49 OF 60



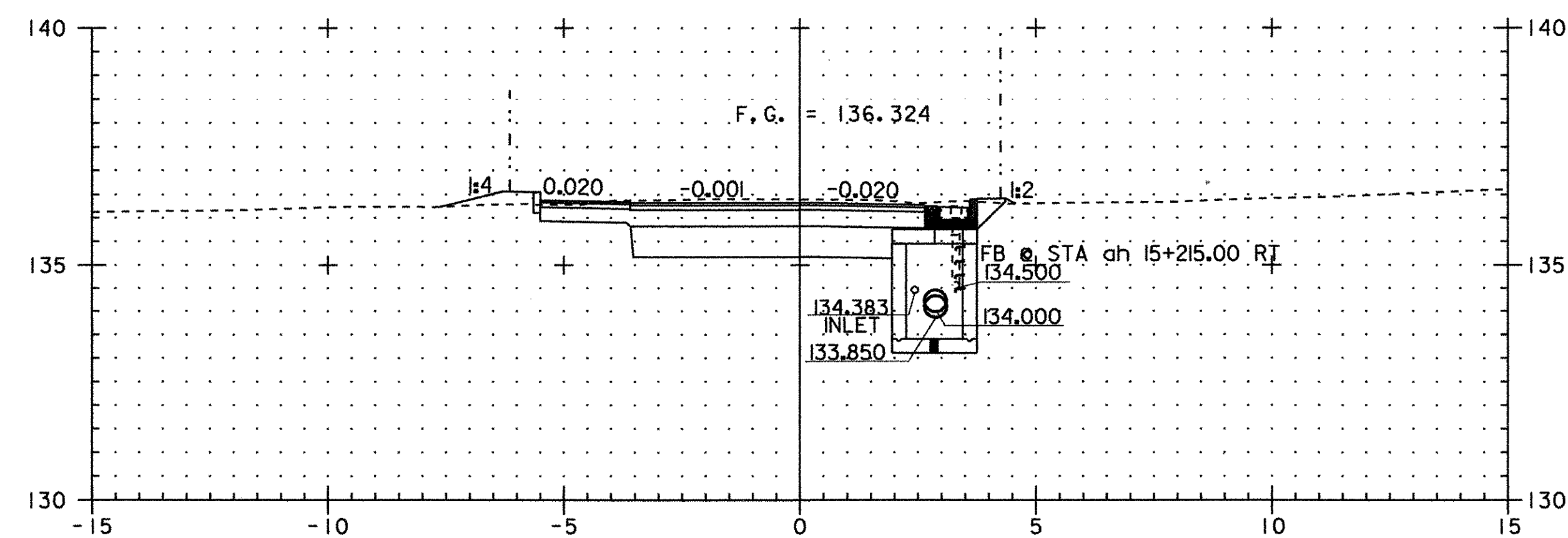
ah 15+227 WALK LT & RT



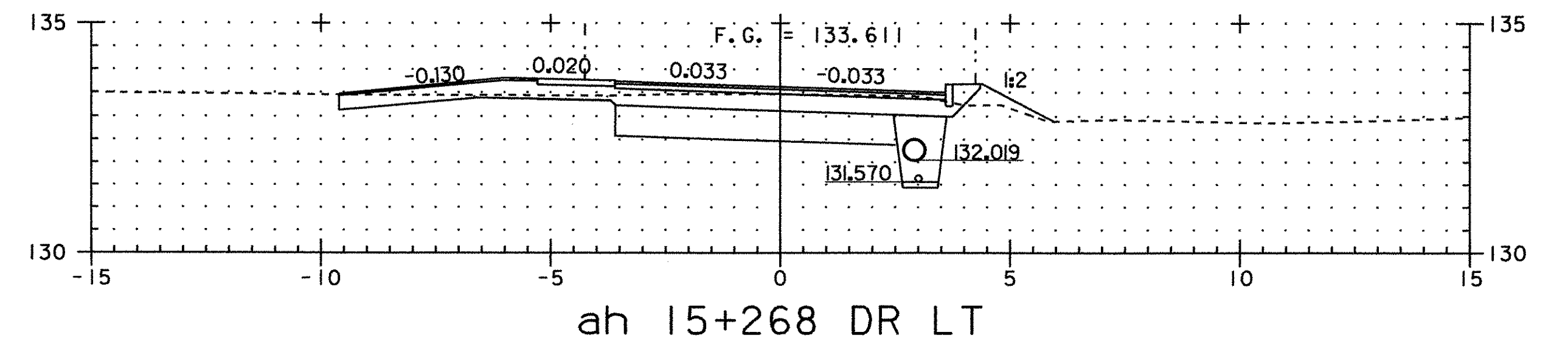
ah 15+220



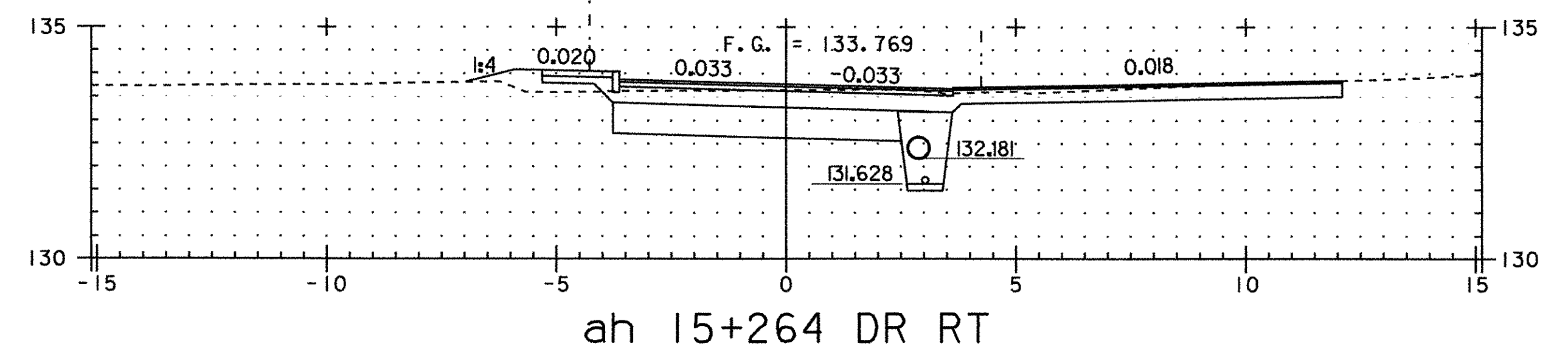
ah 15+218 RT RT



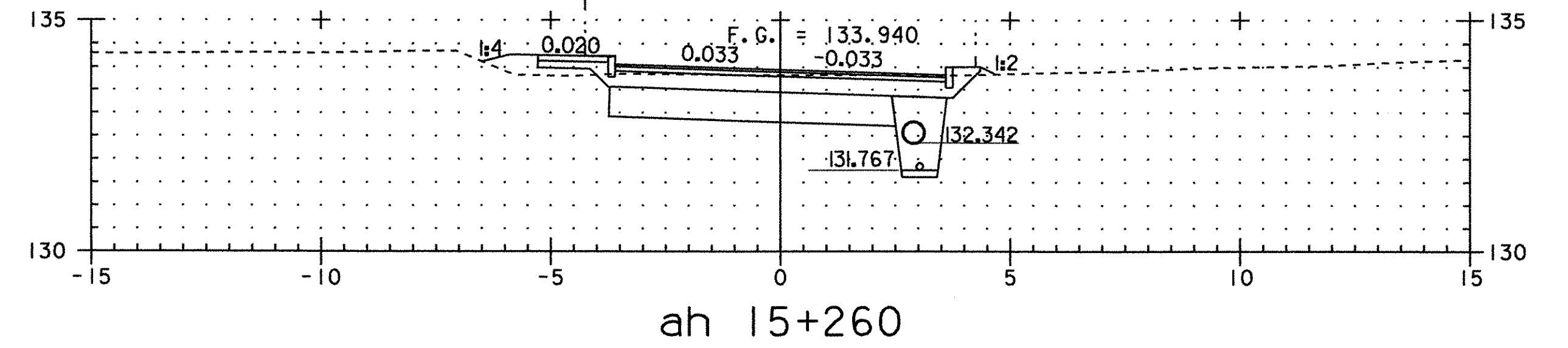
ah 15+214



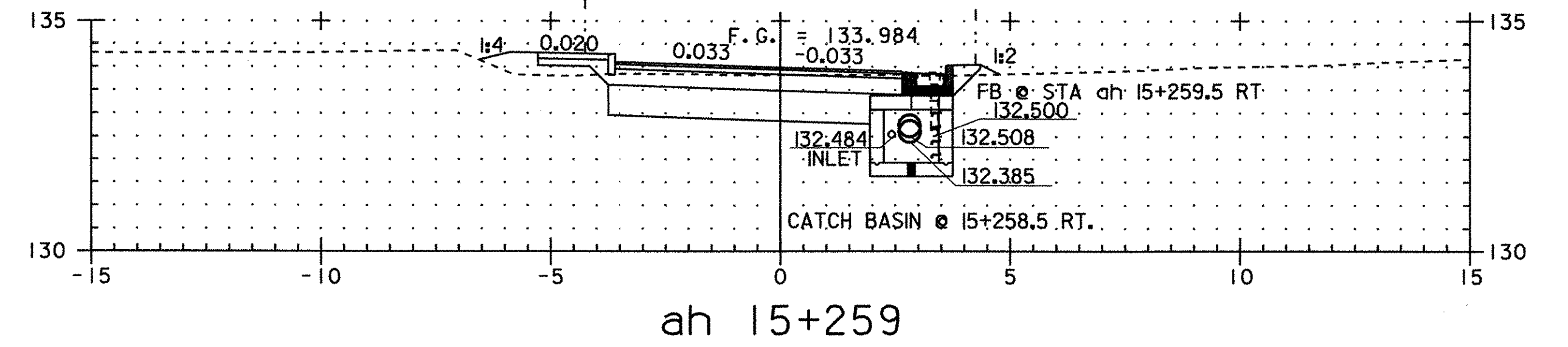
ah 15+268 DR LT



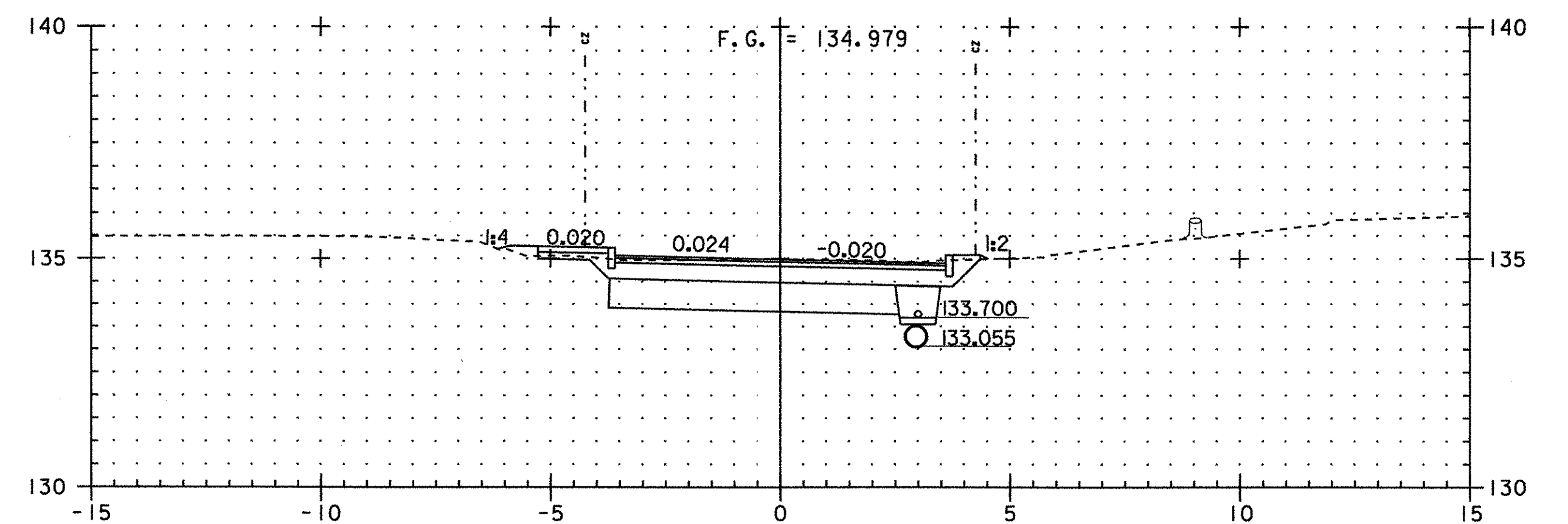
ah 15+264 DR RT



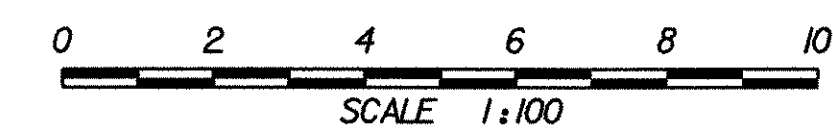
ah 15+260



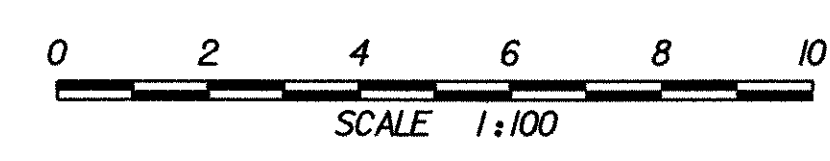
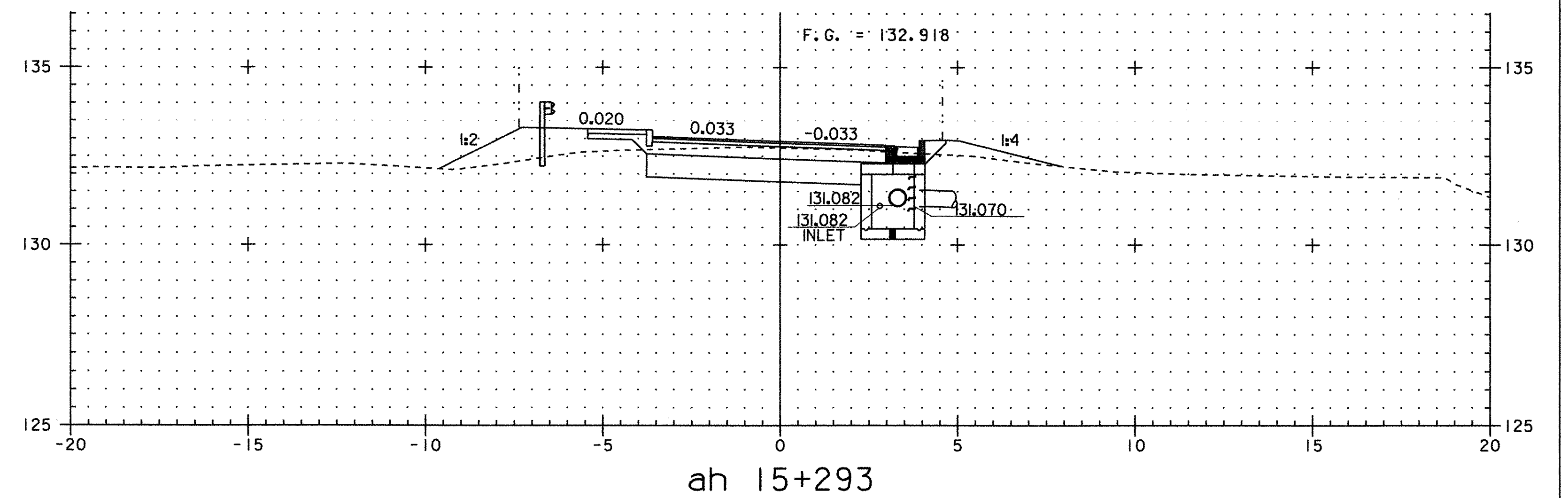
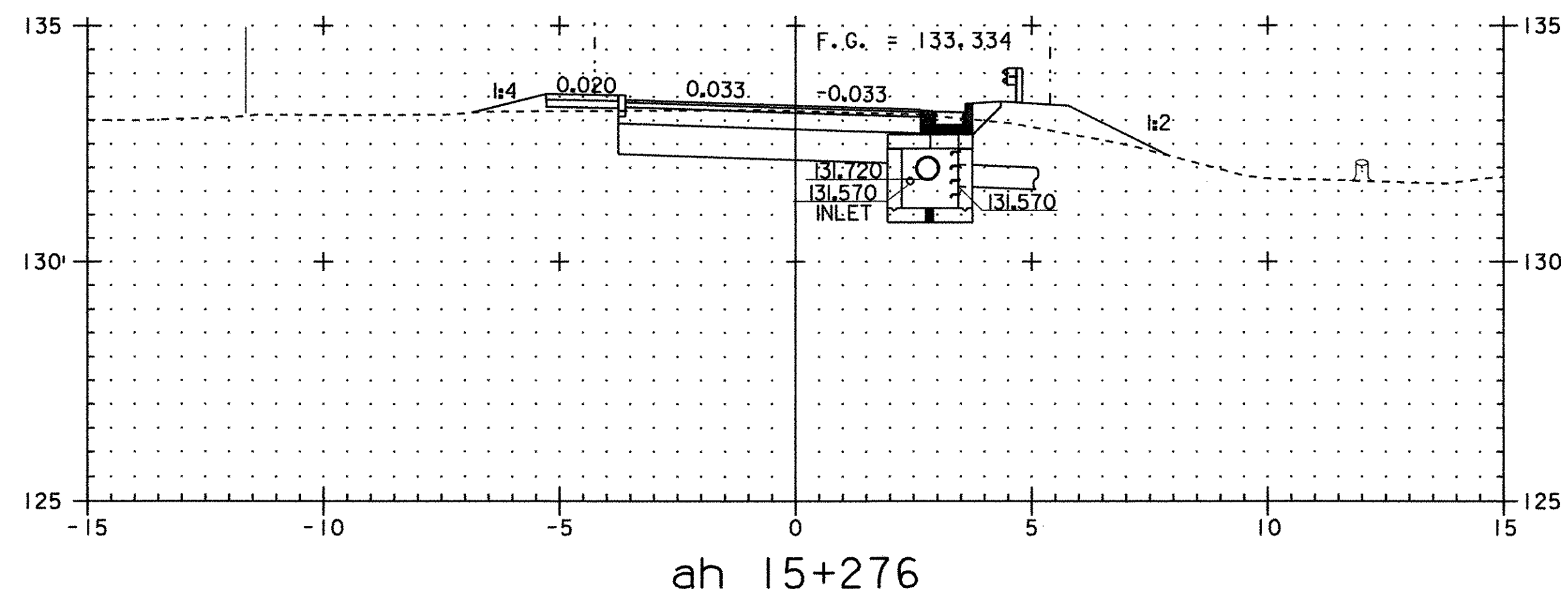
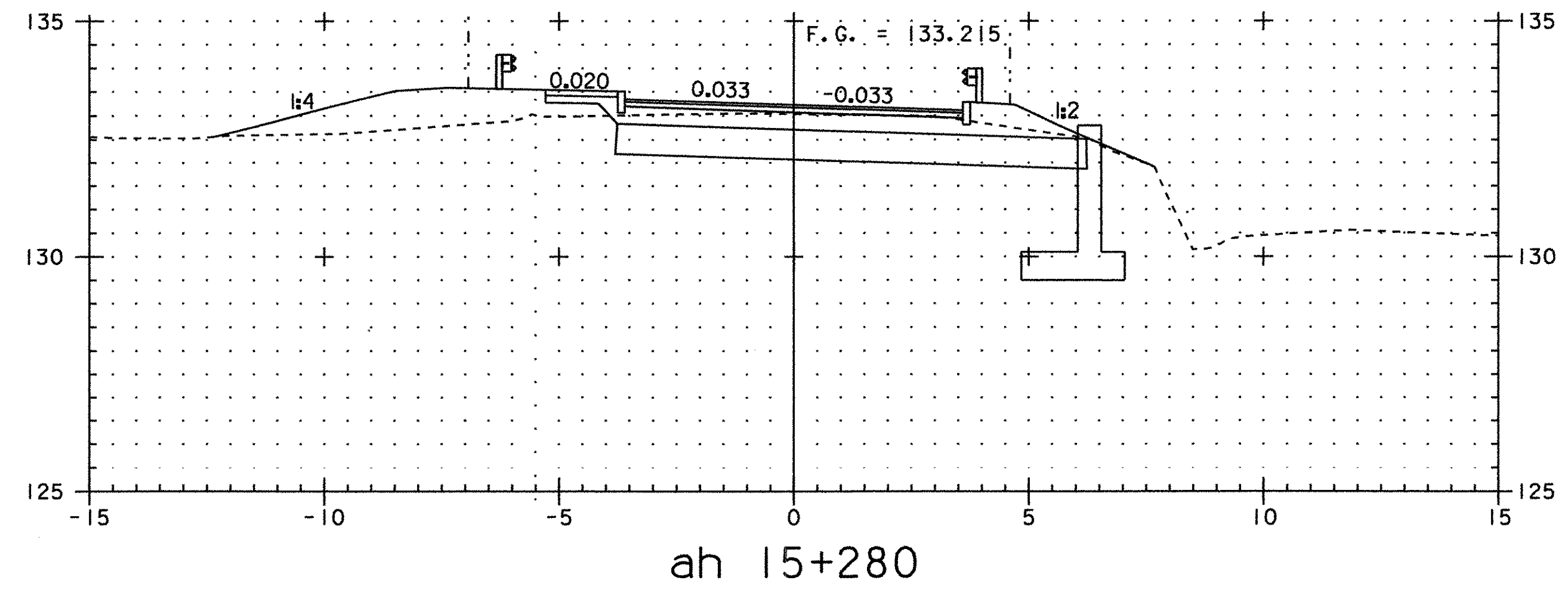
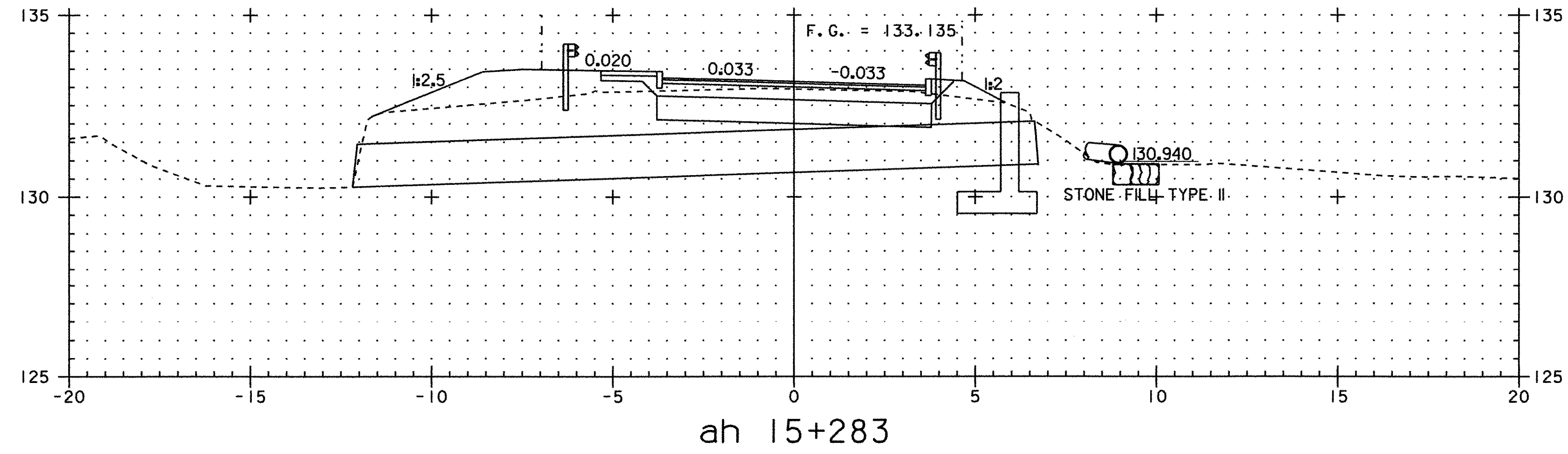
ah 15+259



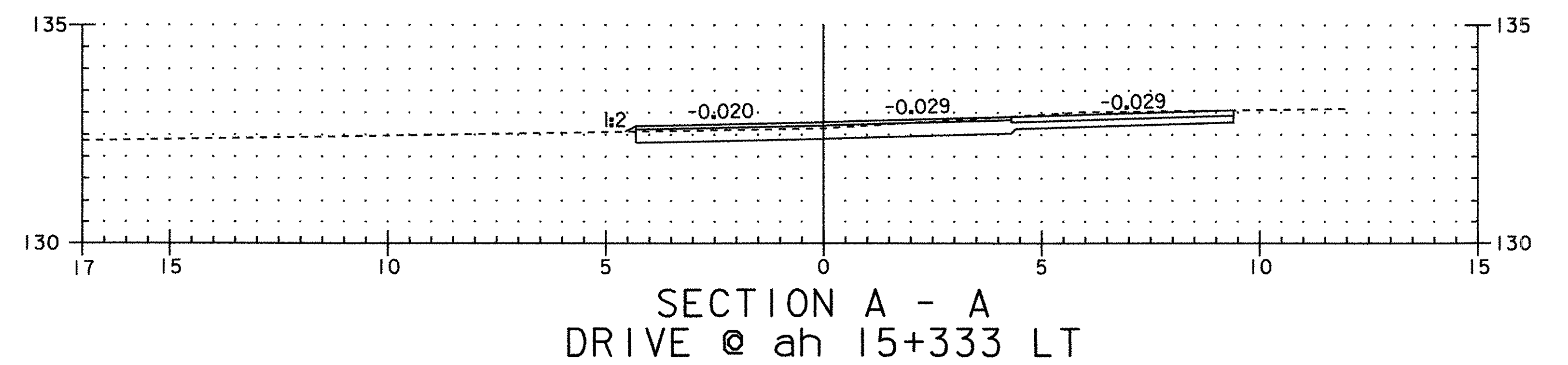
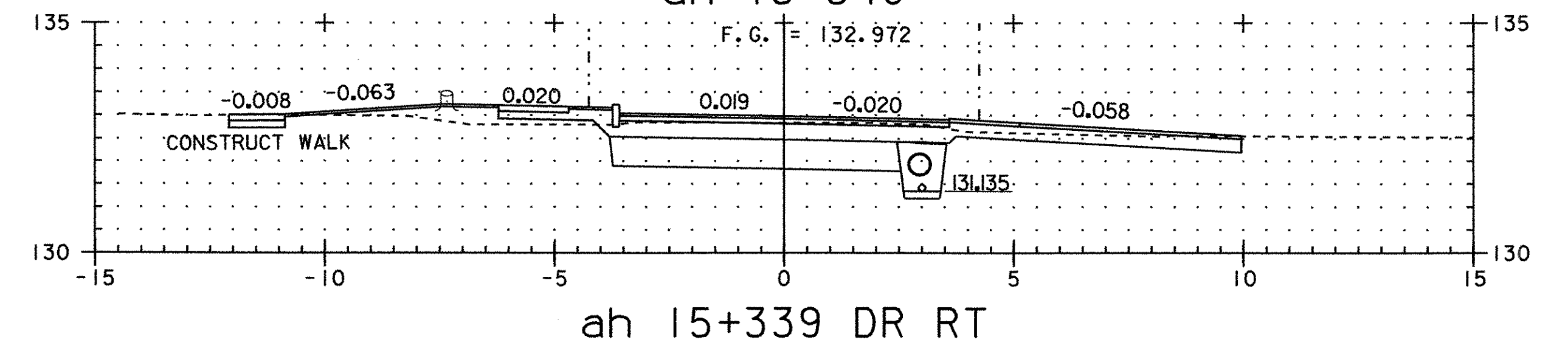
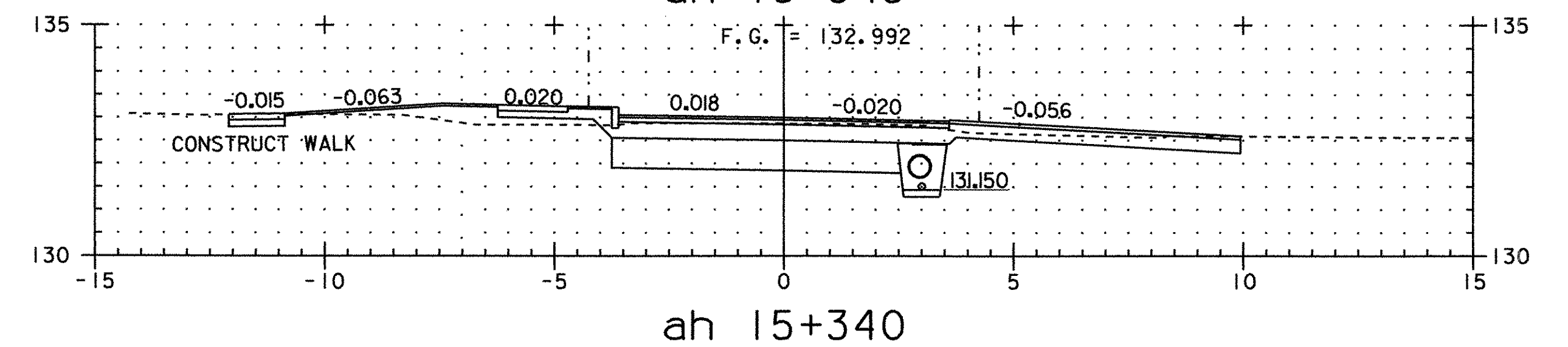
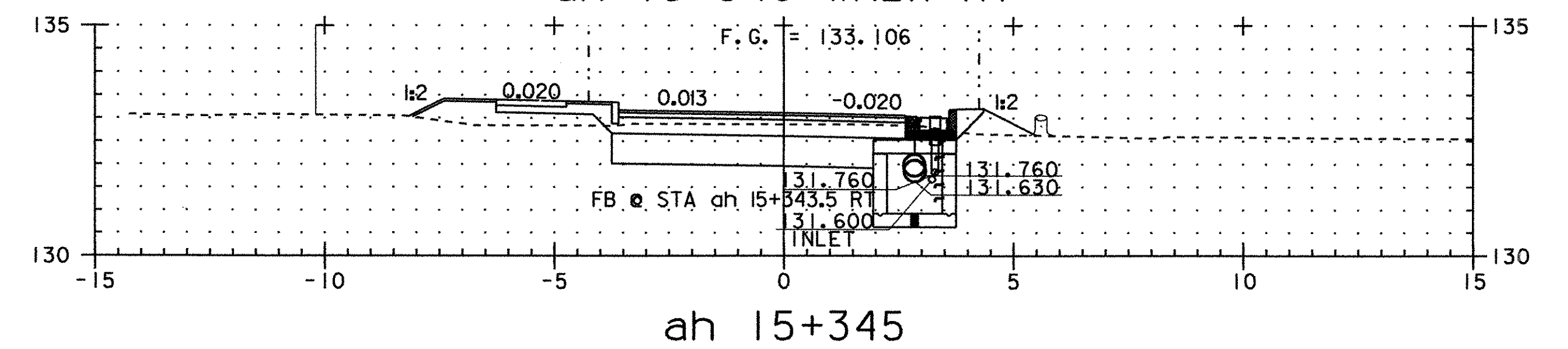
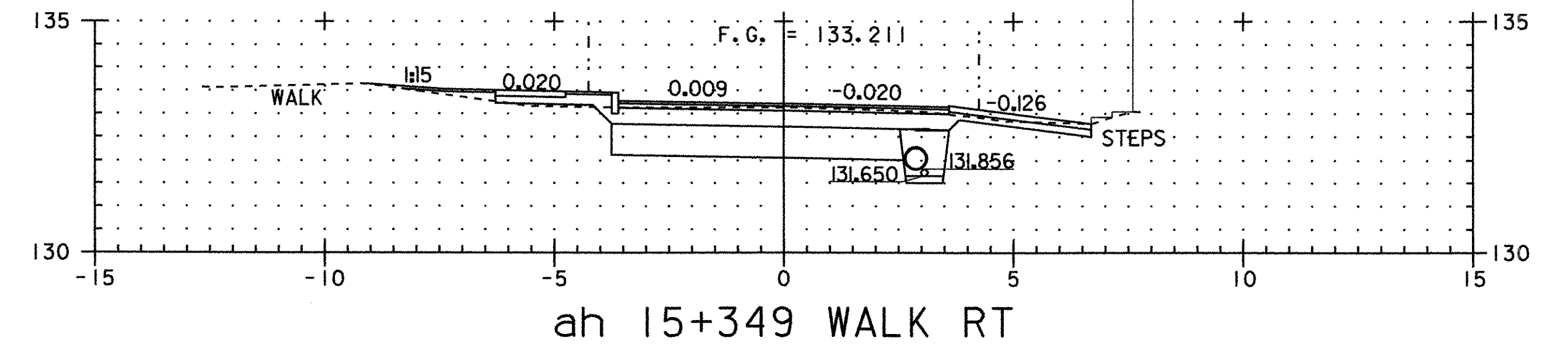
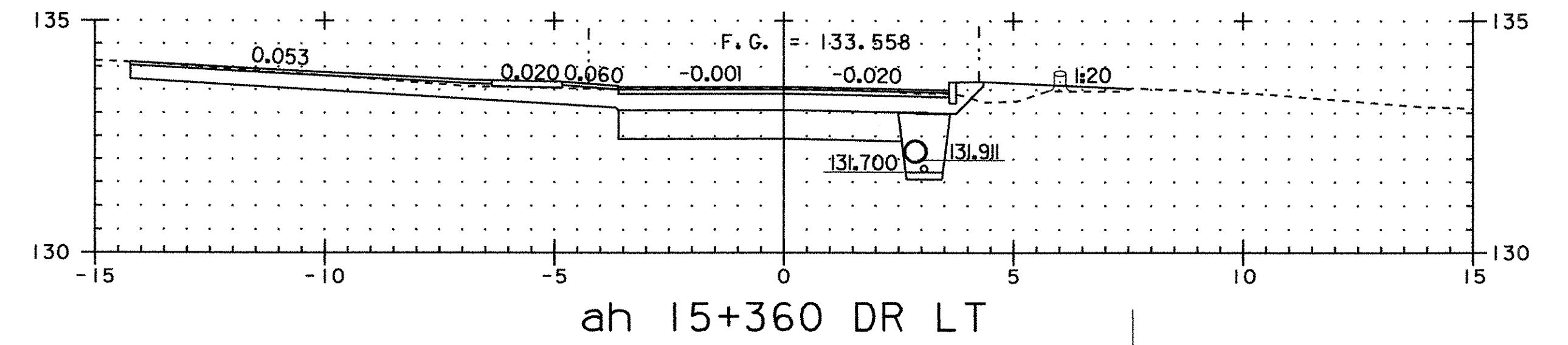
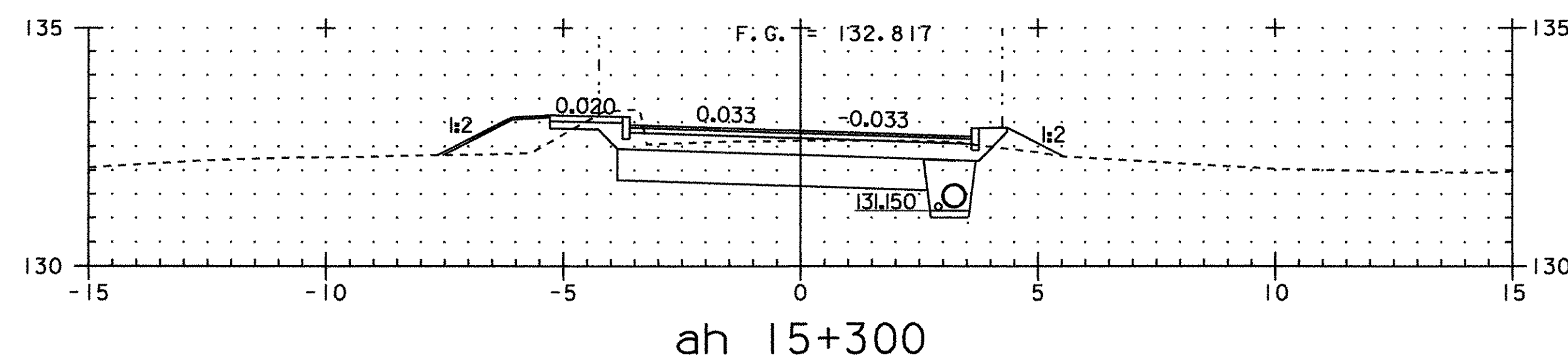
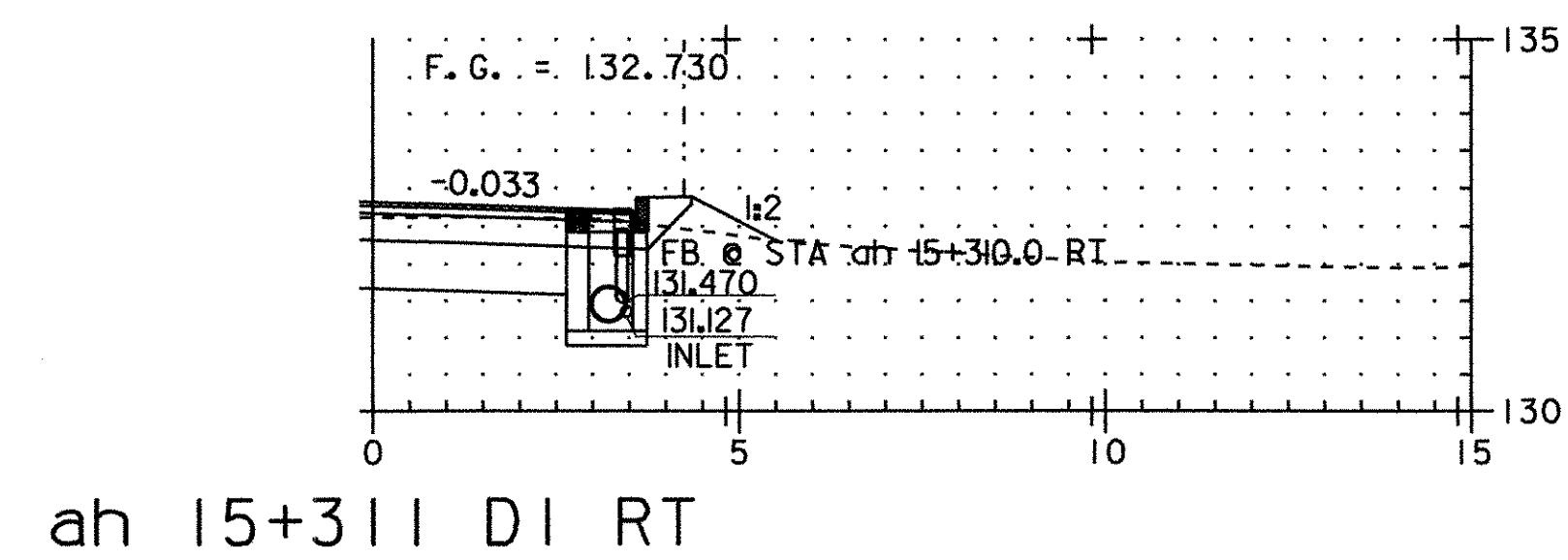
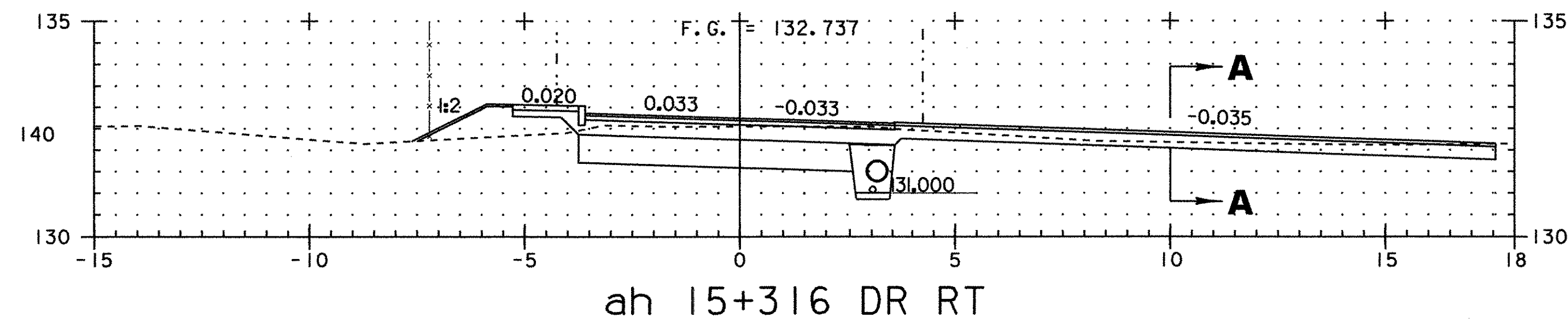
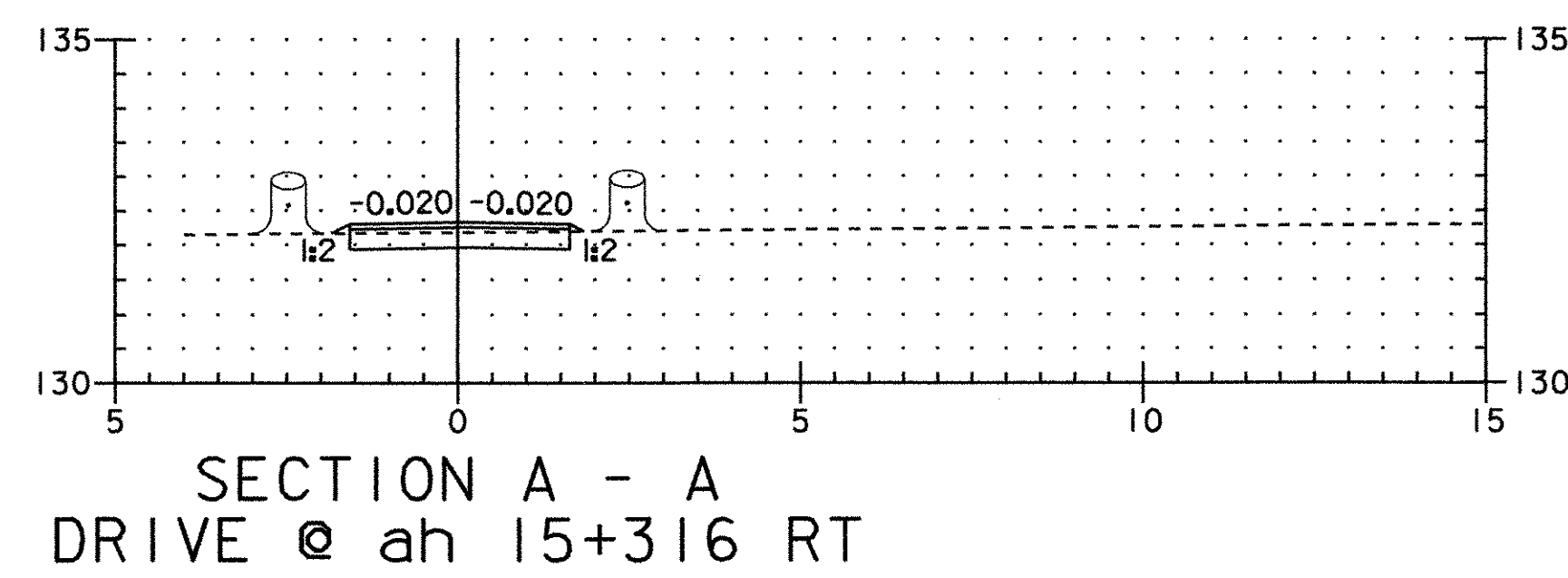
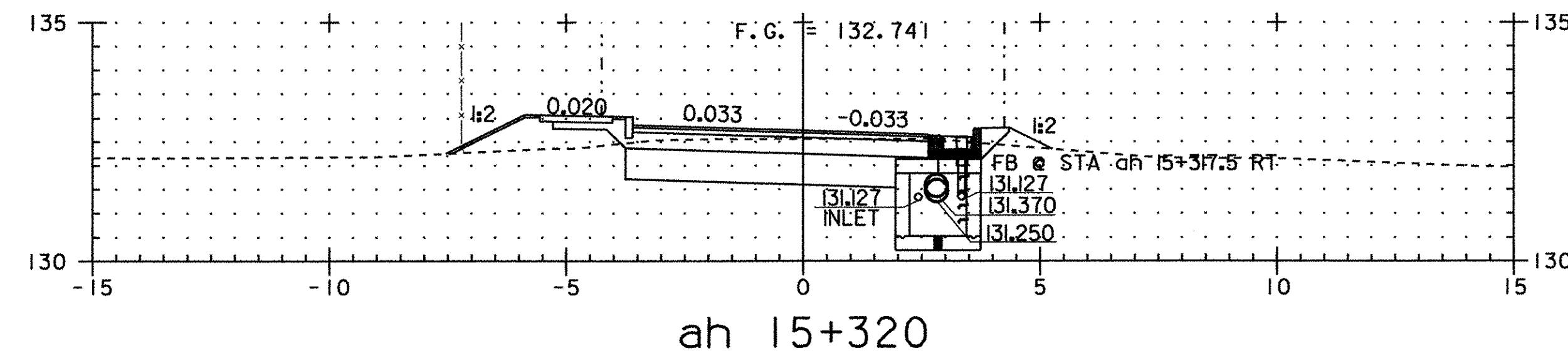
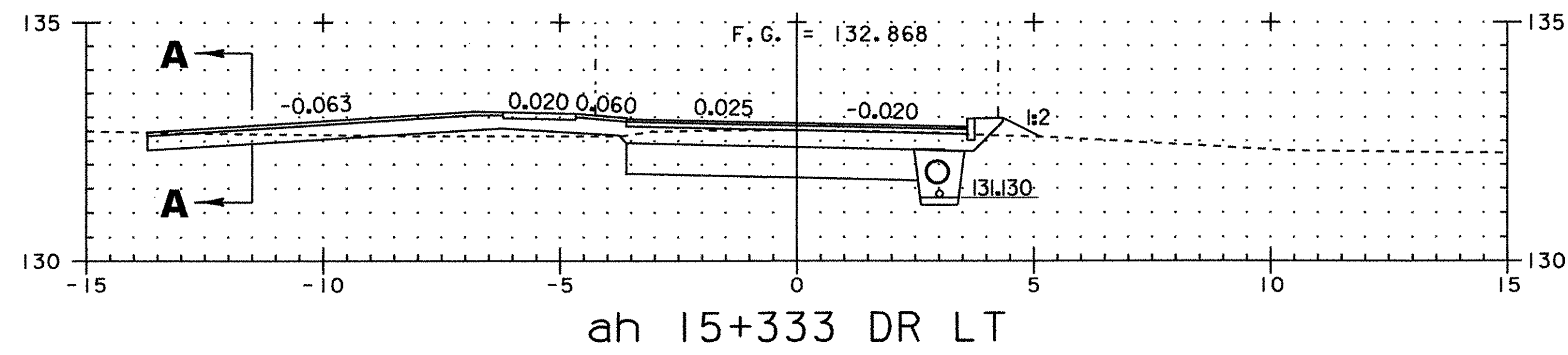
ah 15+240



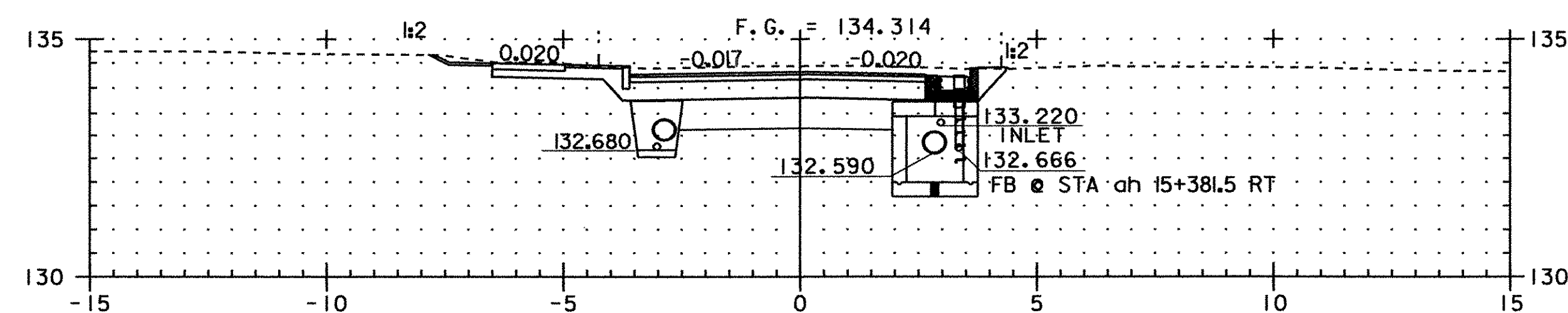
PROJECT NAME:	FRANKLIN	FILE NAME:	...85c060\design\dc060x12.dgn	PLOT DATE:	20-MAR-2003
PROJECT NUMBER:	STP 030(18)	PROJECT LEADER:	DELLASANTA	DRAWN BY:	SQUAD B
		DESIGNED BY:	SQUAD B	CHECKED BY:	SQUAD B
		IPARM FILE NAME:	(2)dc060x06.l	SHEET	50 OF 60



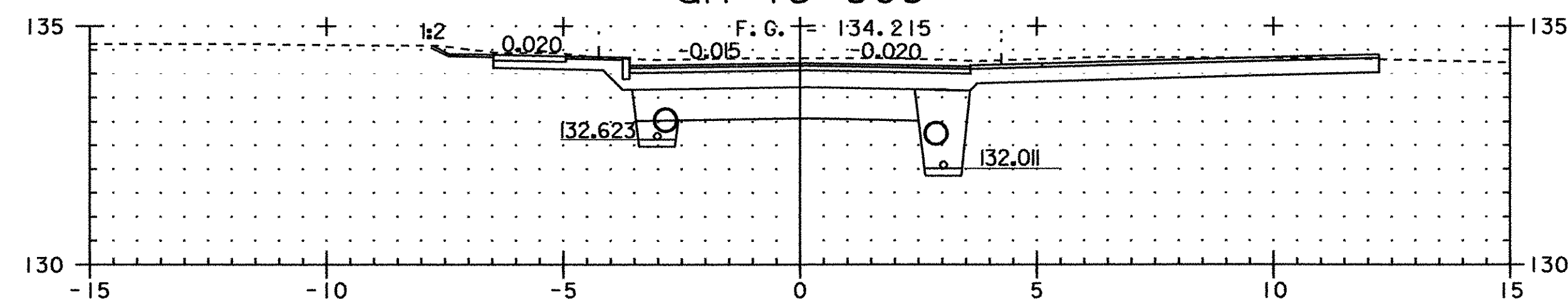
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PROJECT NUMBER:	STP 030(18)	PROJECT LEADER:	DELLASANTA	DRAWN BY:	SQUAD B
		DESIGNED BY:	SQUAD B	CHECKED BY:	SQUAD B
		IPARM FILE NAME:	(2)dc060x07.1	SHEET	51 OF 60



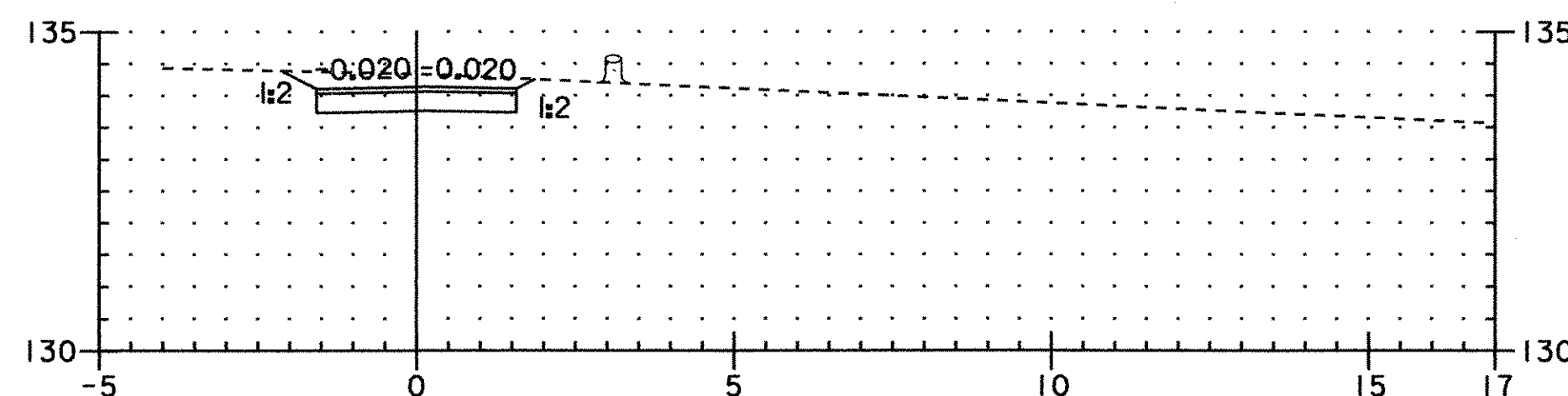
PROJECT NAME:	FRANKLIN	PLLOT DATE:	20-MAR-2003
PROJECT NUMBER:	STP 0301(18)	DRAWN BY:	SQUAD B
FILE NAME:	...85c060\design\dc060x12.dgn	DESIGNED BY:	SQUAD B
DESIGNED BY:	SQUAD B	CHECKED BY:	SQUAD B
IPARM FILE NAME:	(2)dc060x08.l	SHEET	52 OF 60



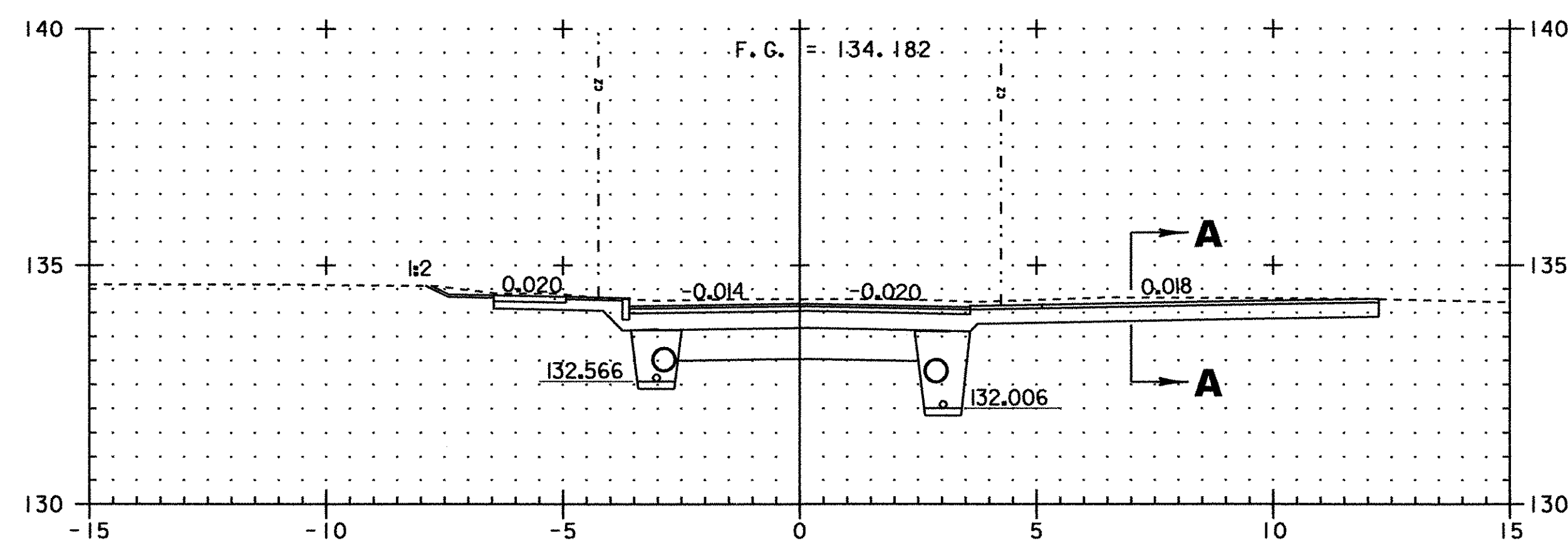
ah 15+383



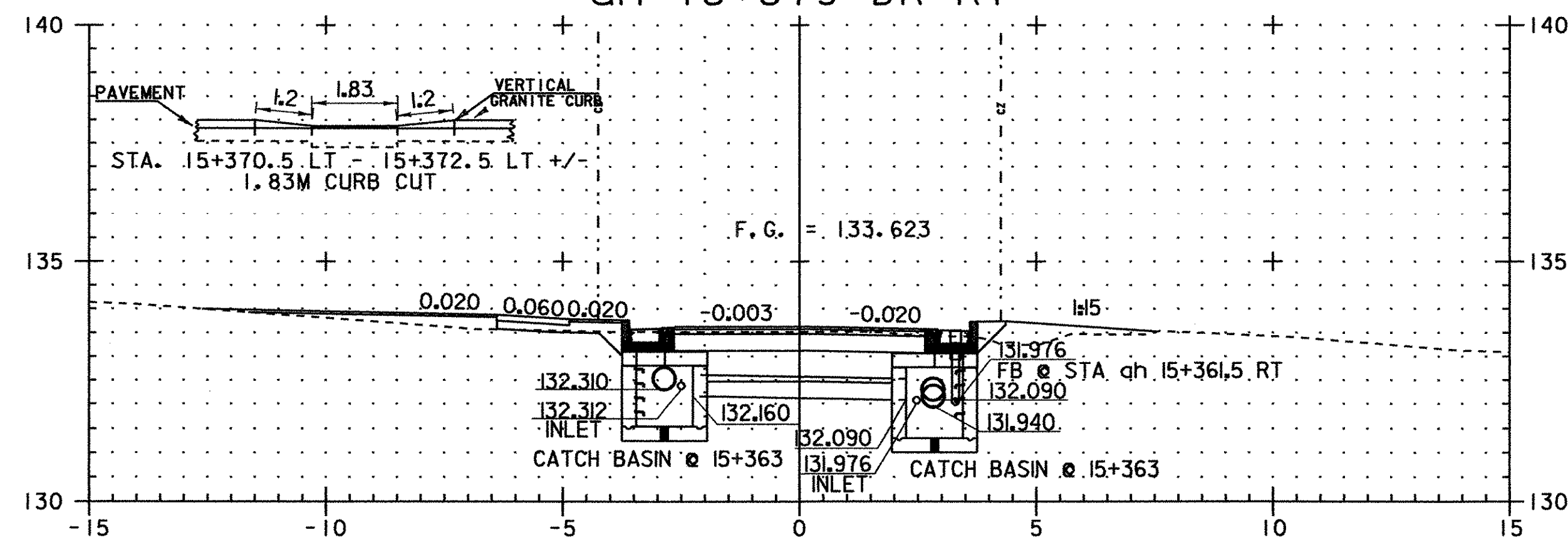
ah 15+380



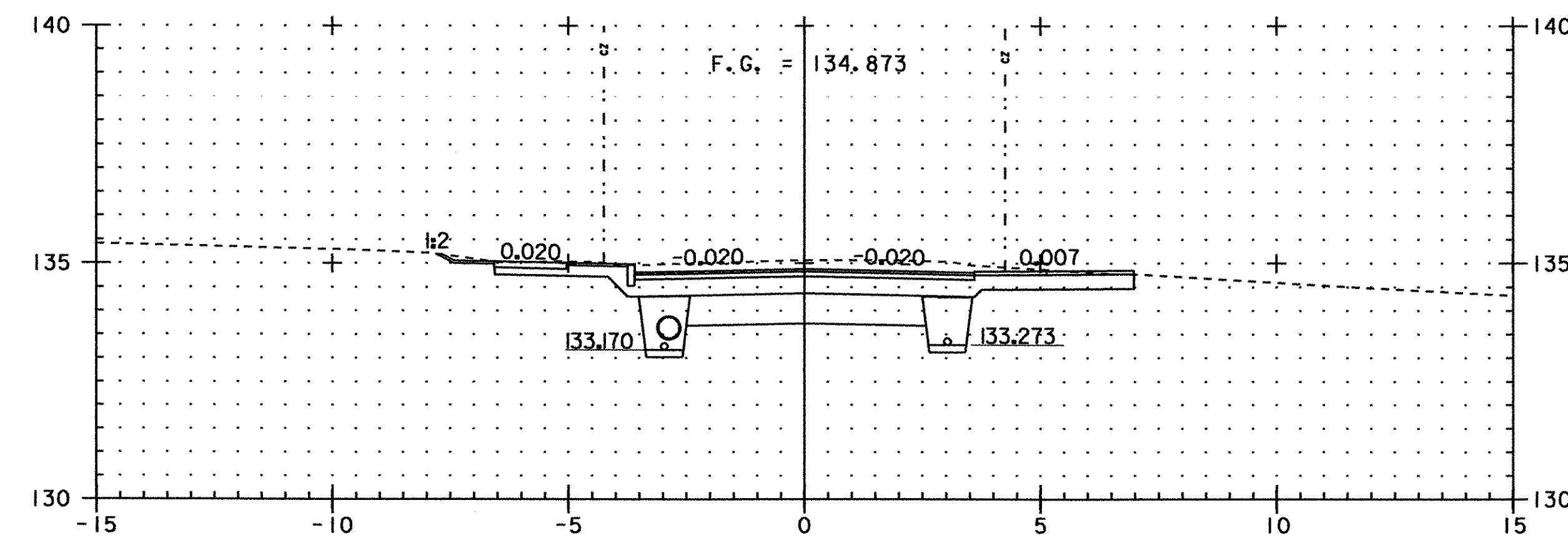
SECTION A - A
DRIVE @ ah 15+379 RT



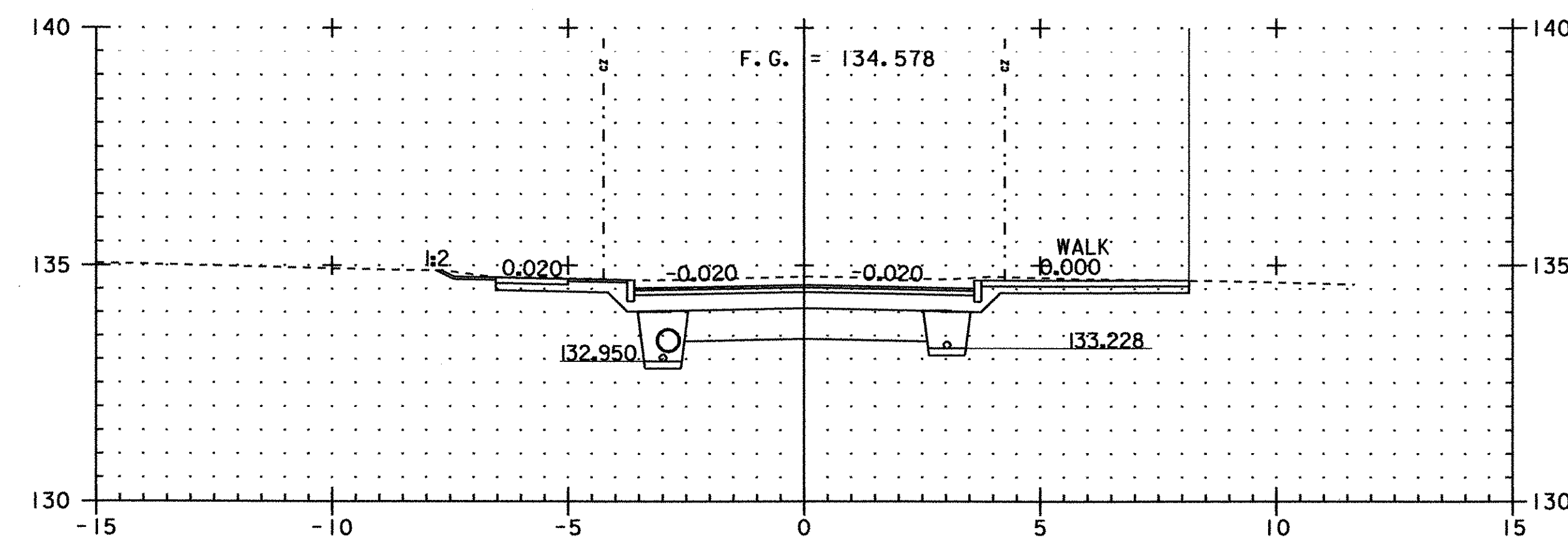
ah 15+379 DR RT



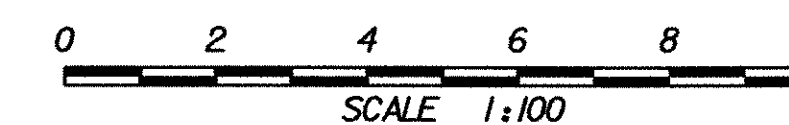
ah 15+362



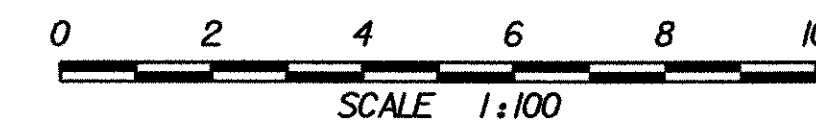
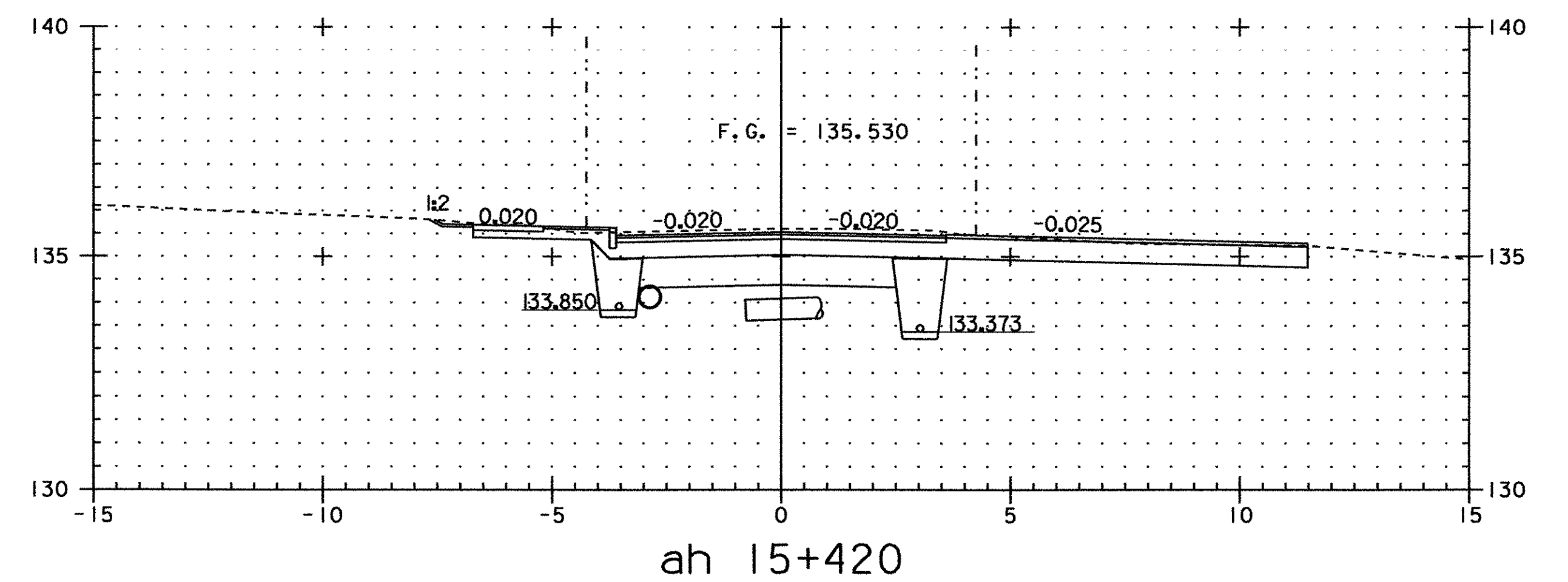
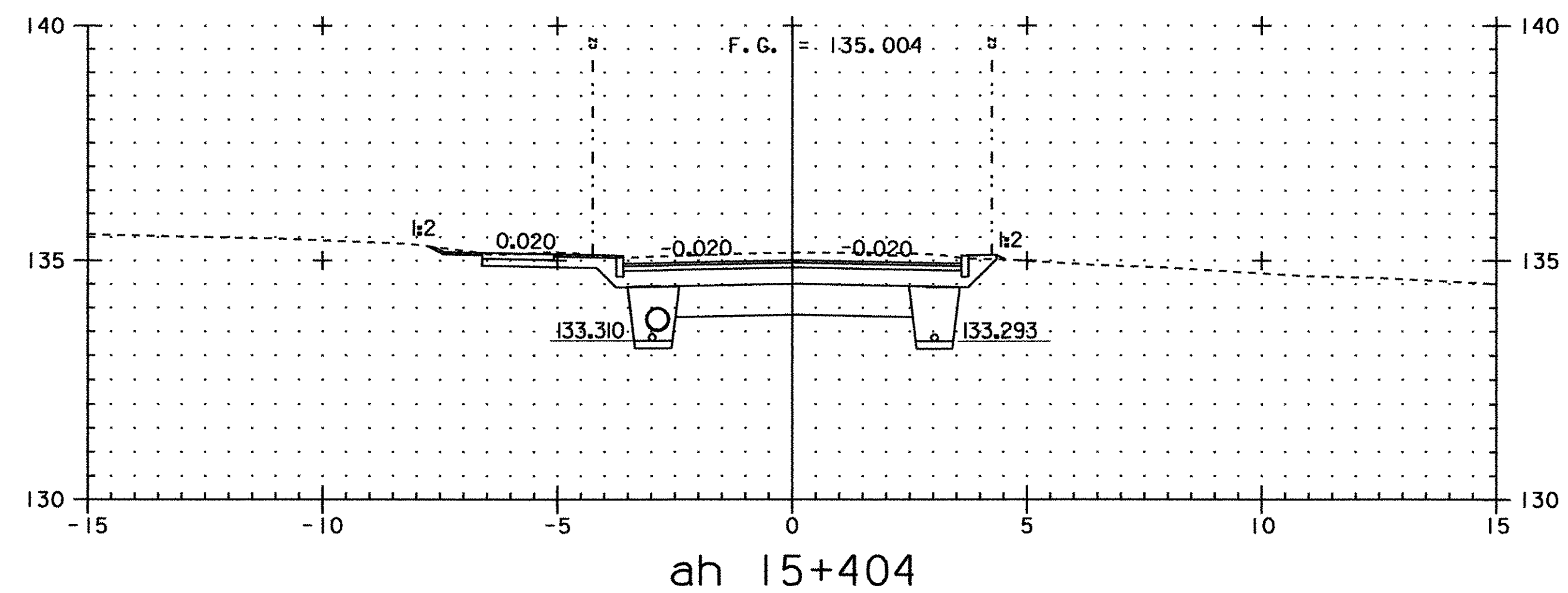
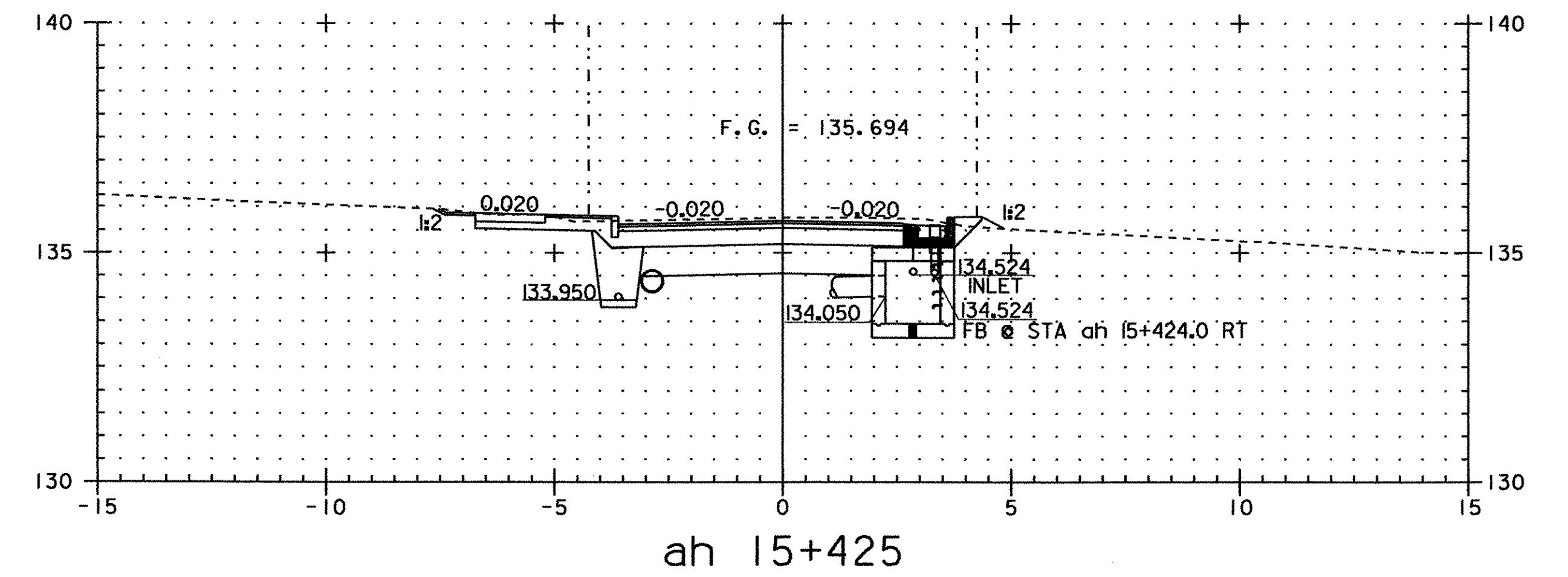
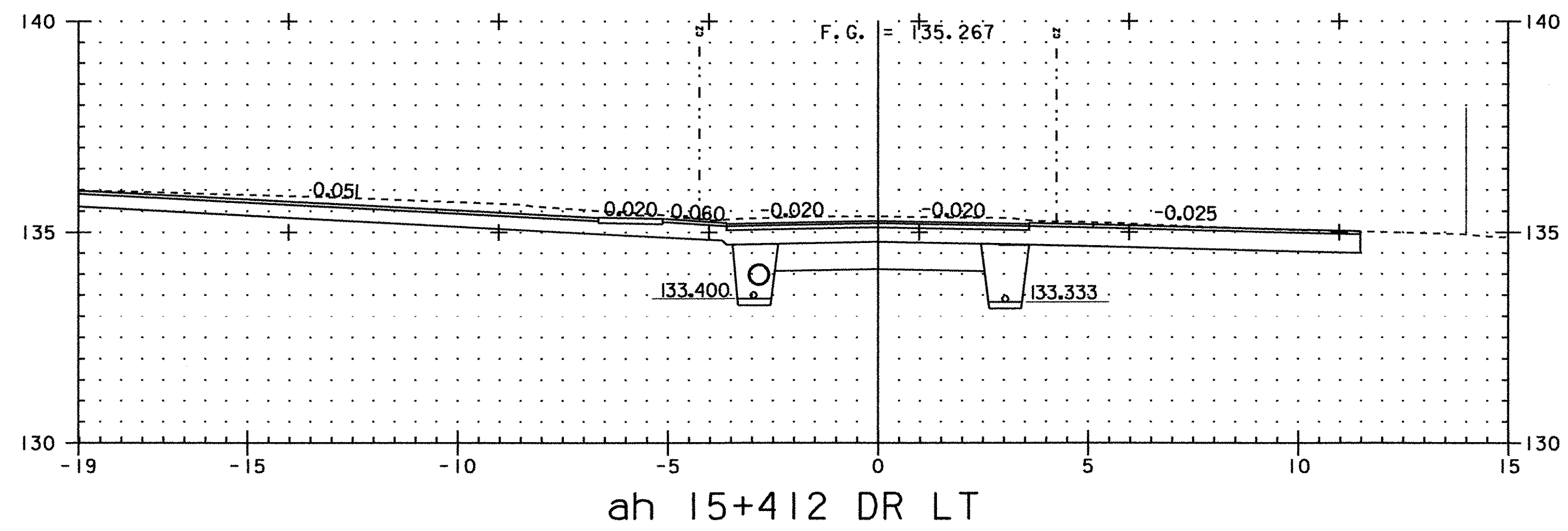
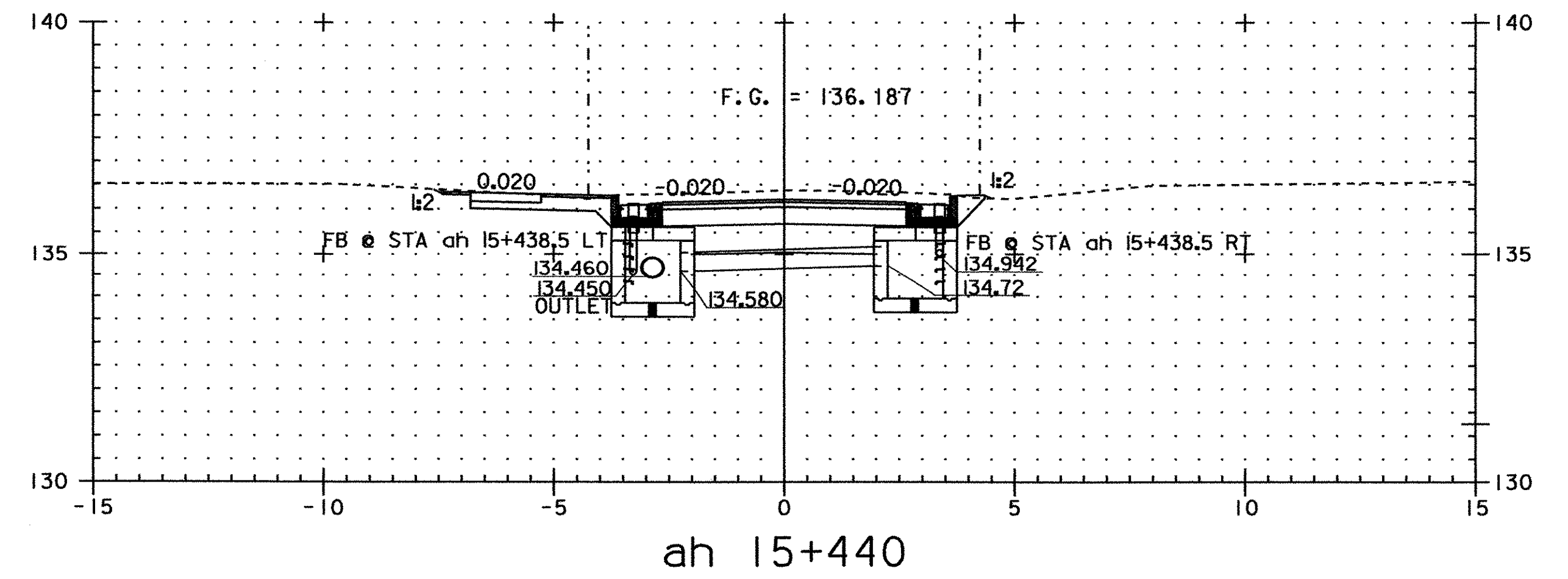
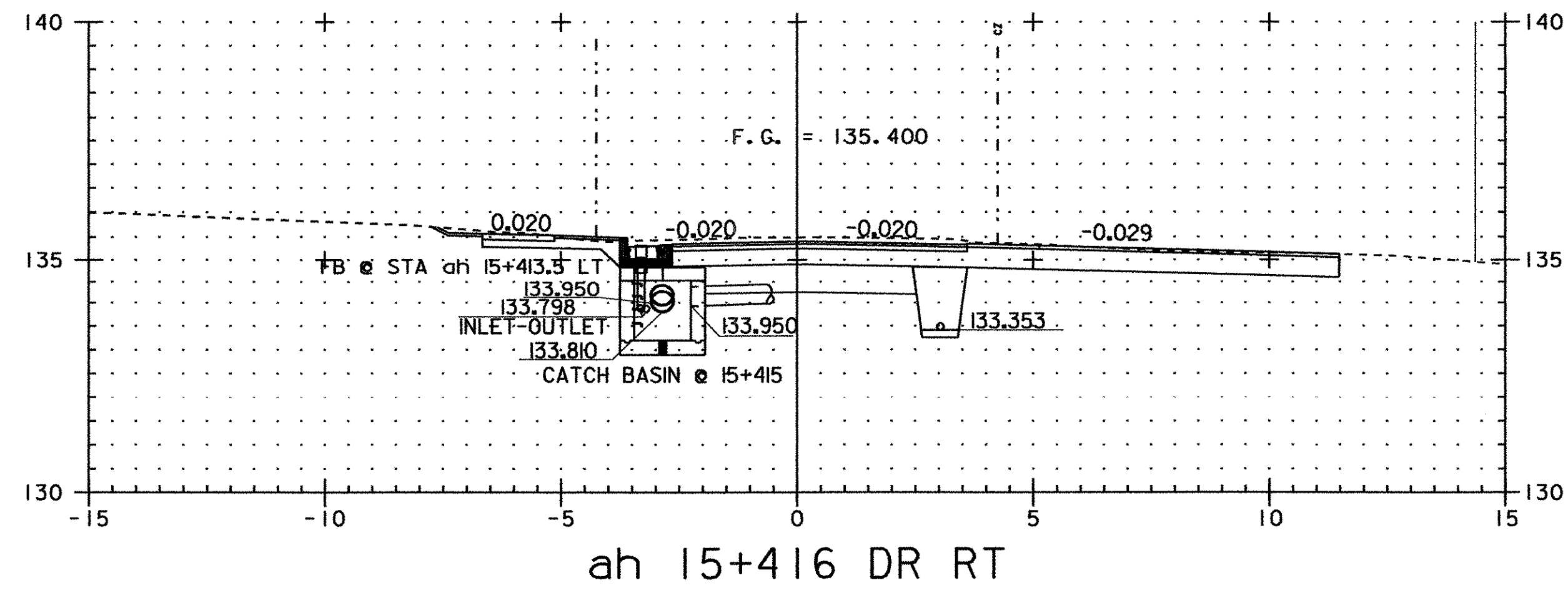
ah 15+400
DR RT



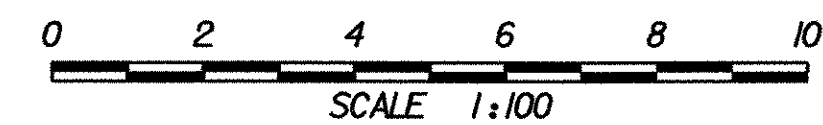
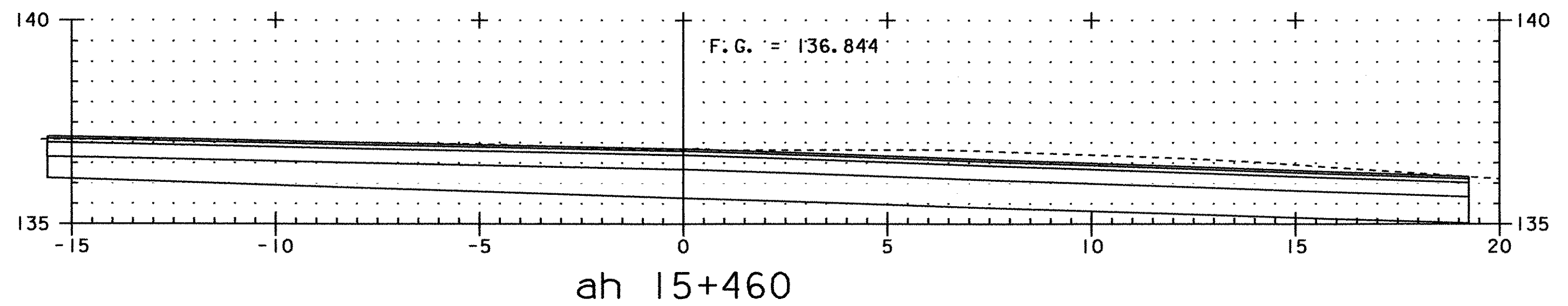
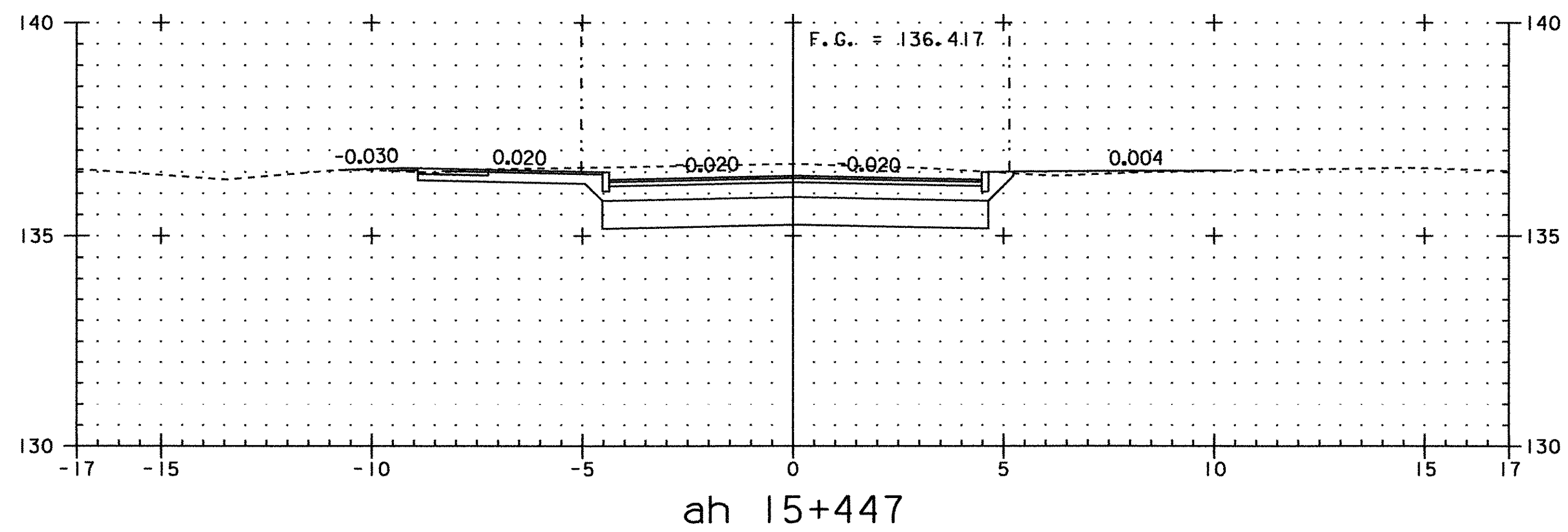
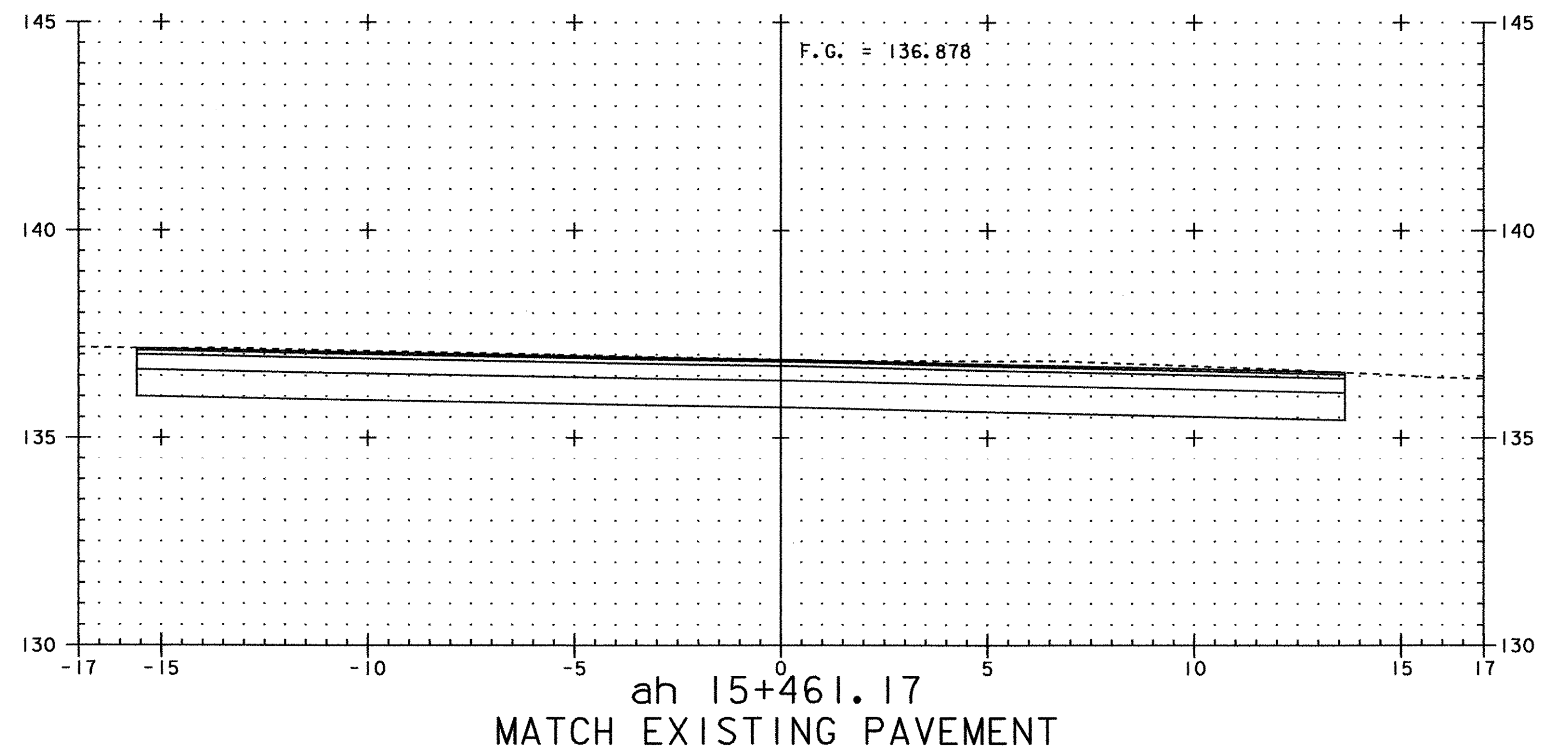
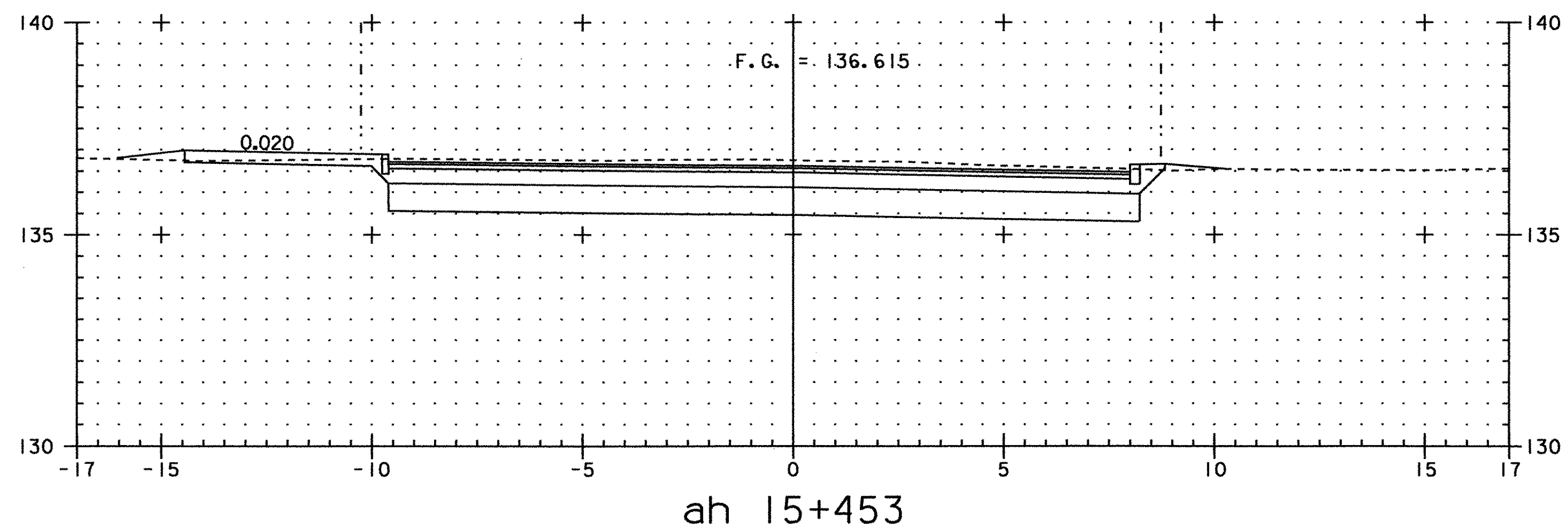
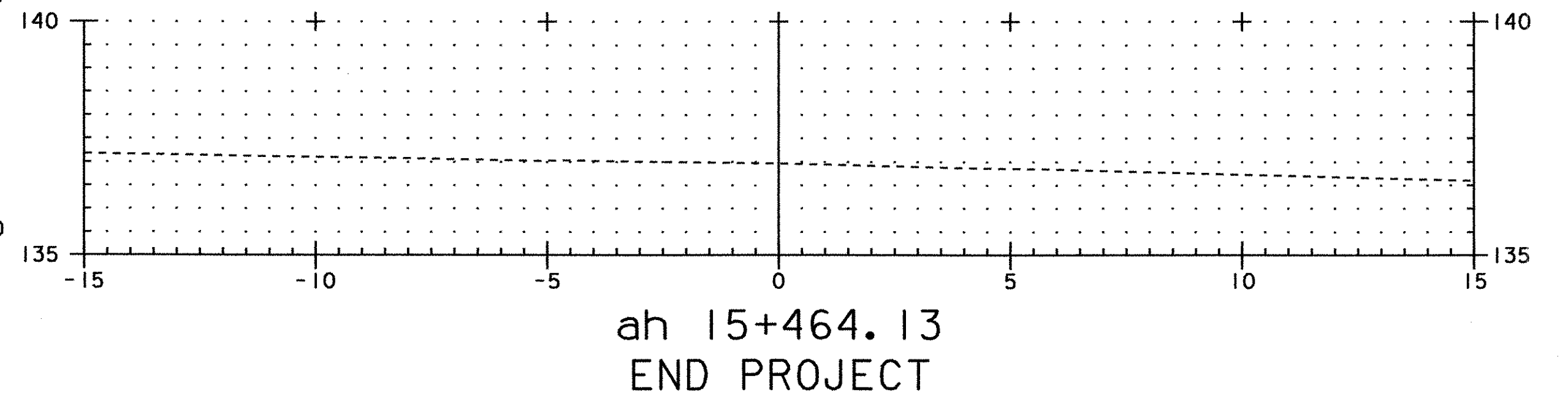
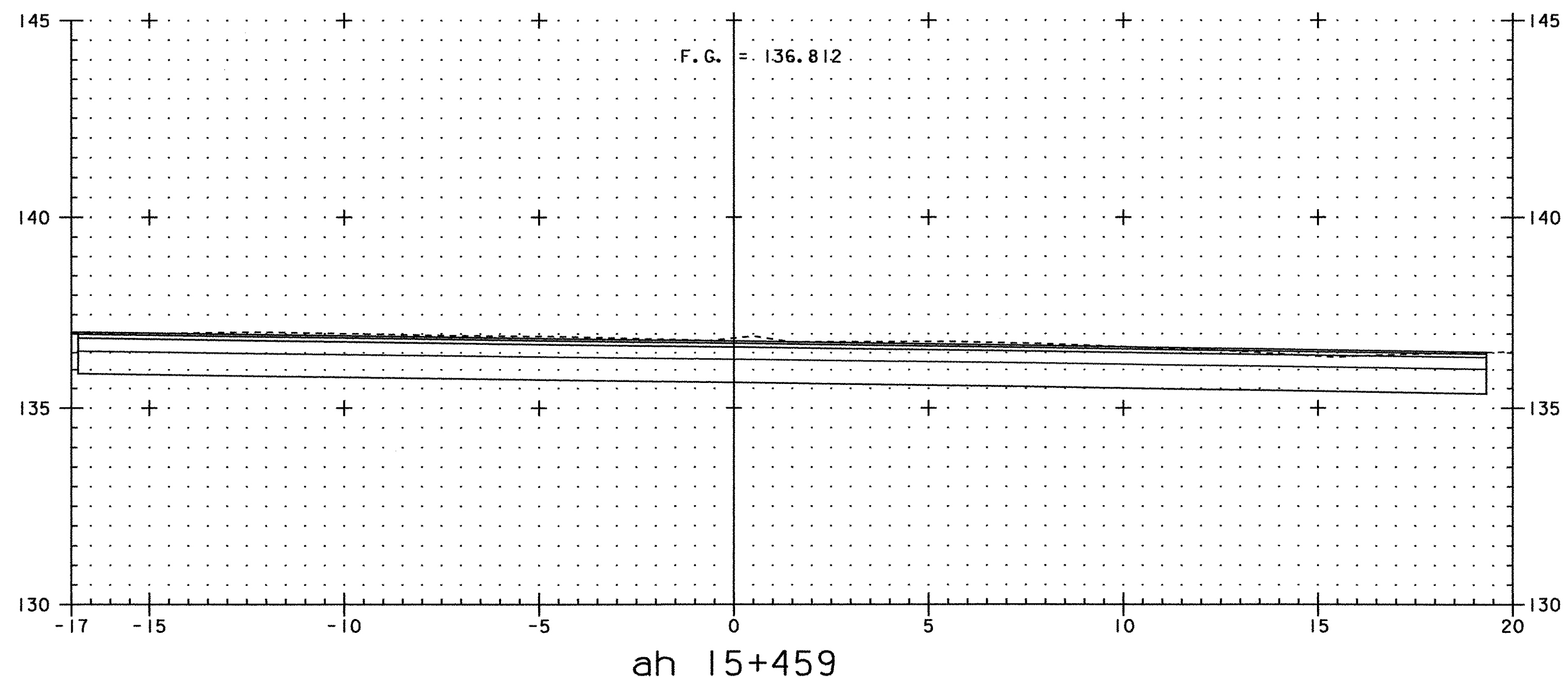
ah 15+391 WALK RT



PROJECT NAME:	FRANKLIN	PLOT DATE:	20-MAR-2003
PROJECT NUMBER:	STP 0301(18)	DRAWN BY:	SQUAD B
FILE NAME:	...85c060\design\dc060xl2.dgn	DESIGNED BY:	SQUAD B
PROJECT LEADER:	DELLASANTA	CHECKED BY:	SQUAD B
IPARM FILE NAME:	(2)dc060x09.1	SHEET	53 OF 60

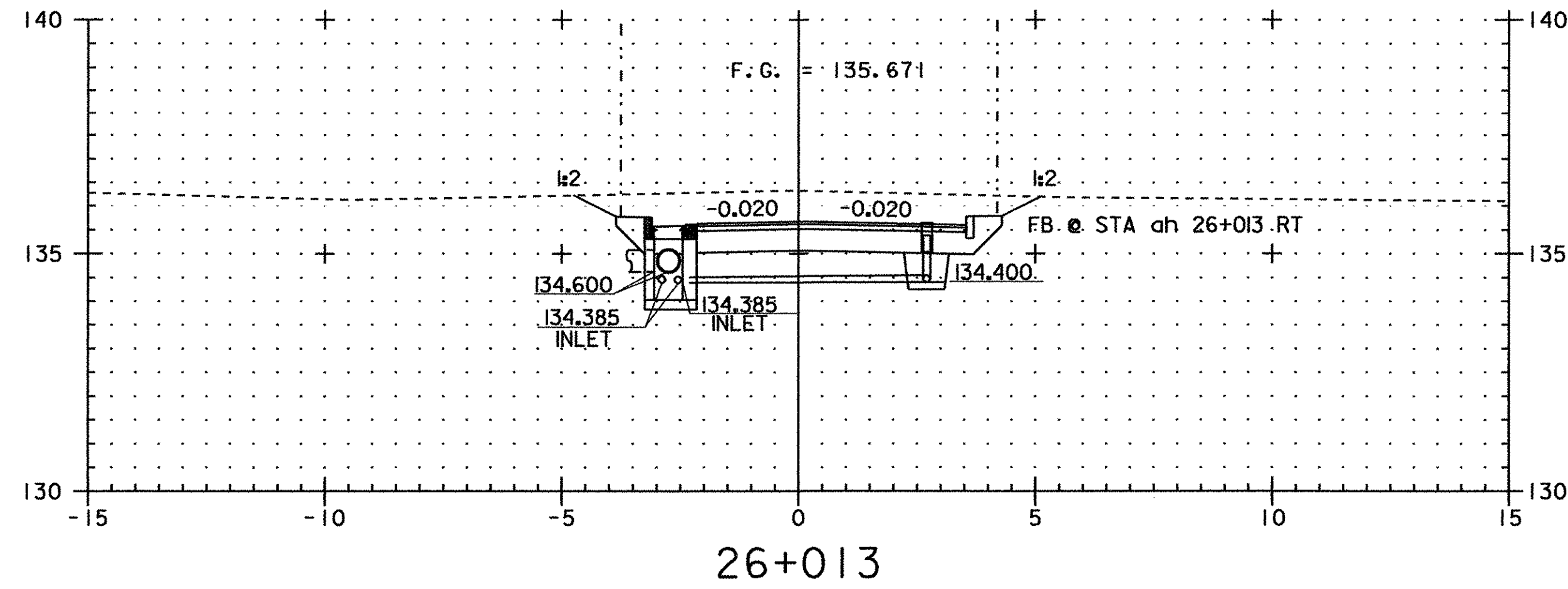


PROJECT NAME:	FRANKLIN	FILE NAME:	...85c060\design\dc060x12.dgn	PLOT DATE:	20-MAR-2003
PROJECT NUMBER:	STP 030I(18)	PROJECT LEADER:	DELLASANTA	DRAWN BY:	SQUAD B
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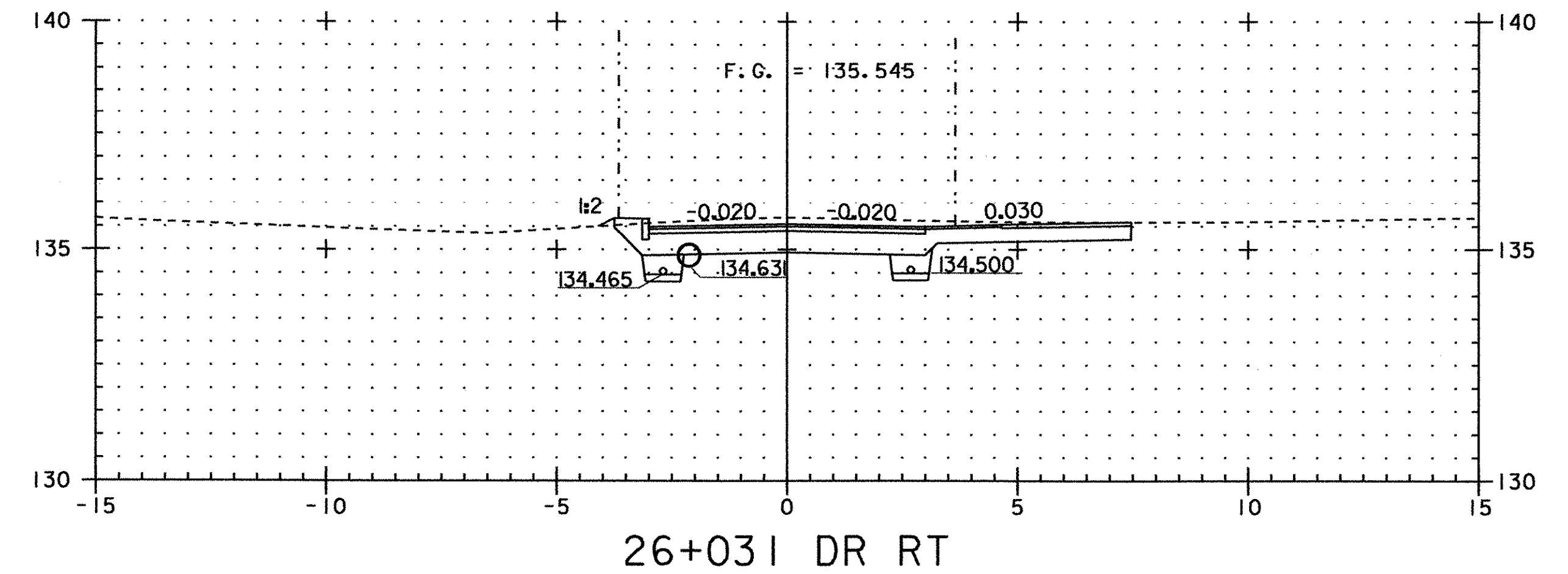


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PROJECT NUMBER:	STP 030I(18)	PROJECT LEADER:	DELLASANTA	DRAWN BY:	SQUAD B
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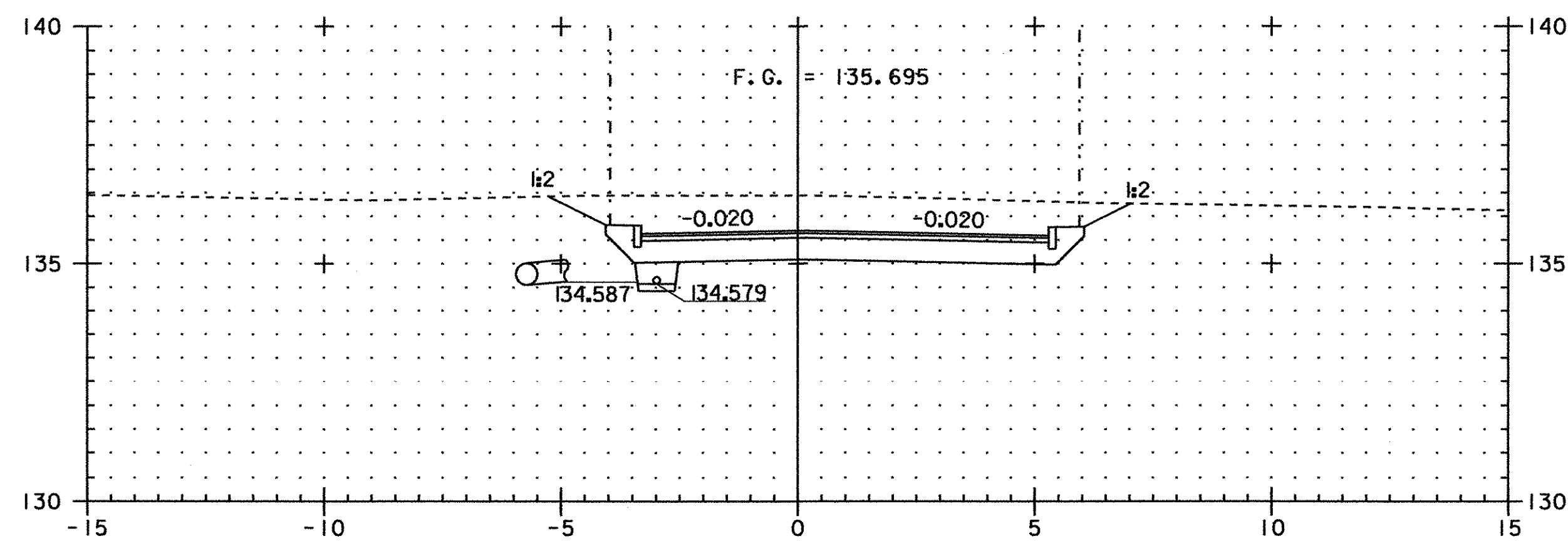
TH #16 SECTIONS



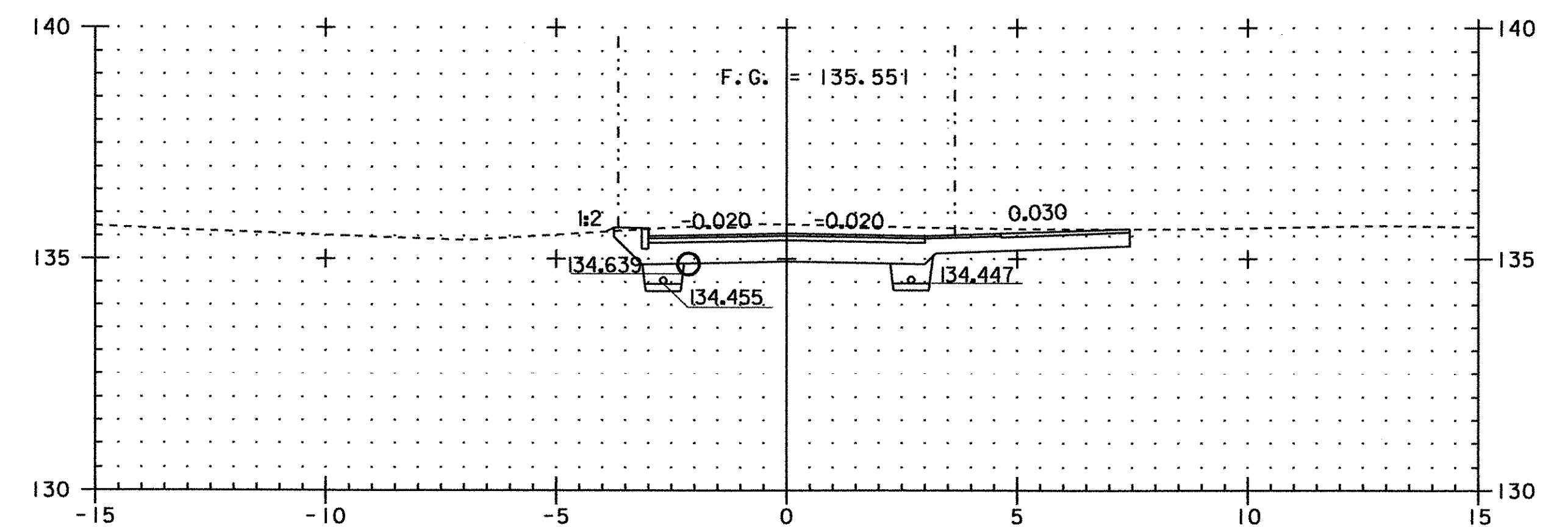
26+013



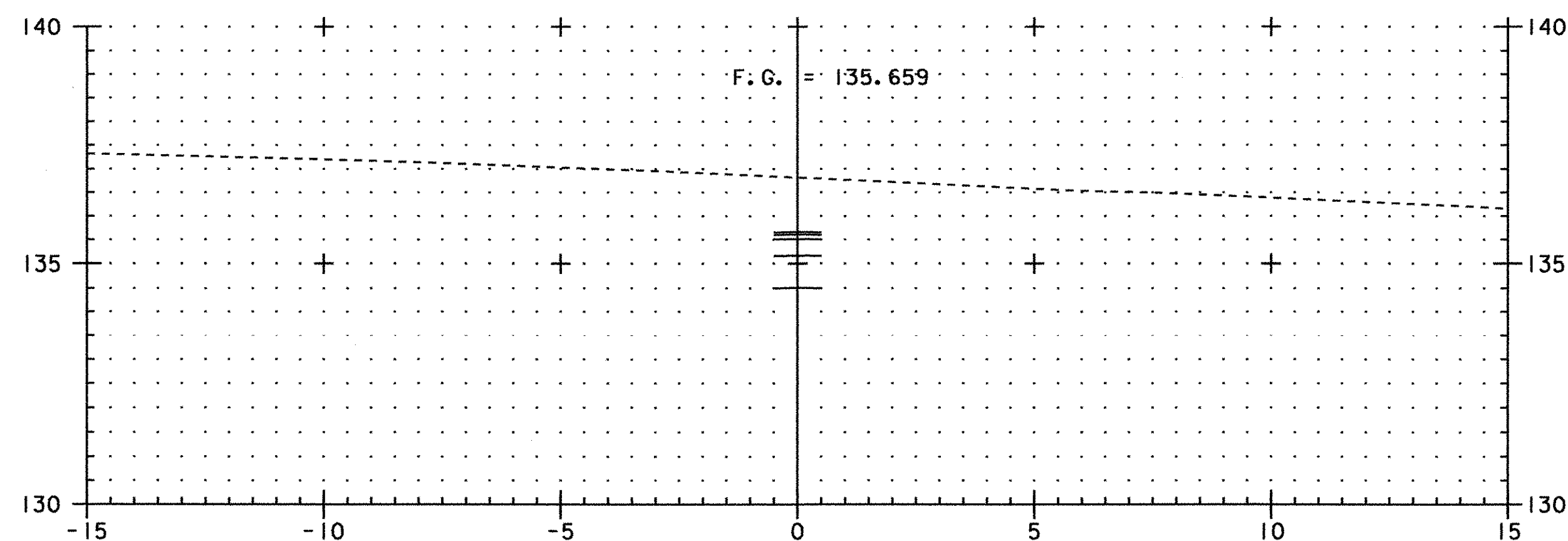
26+031 DR RT



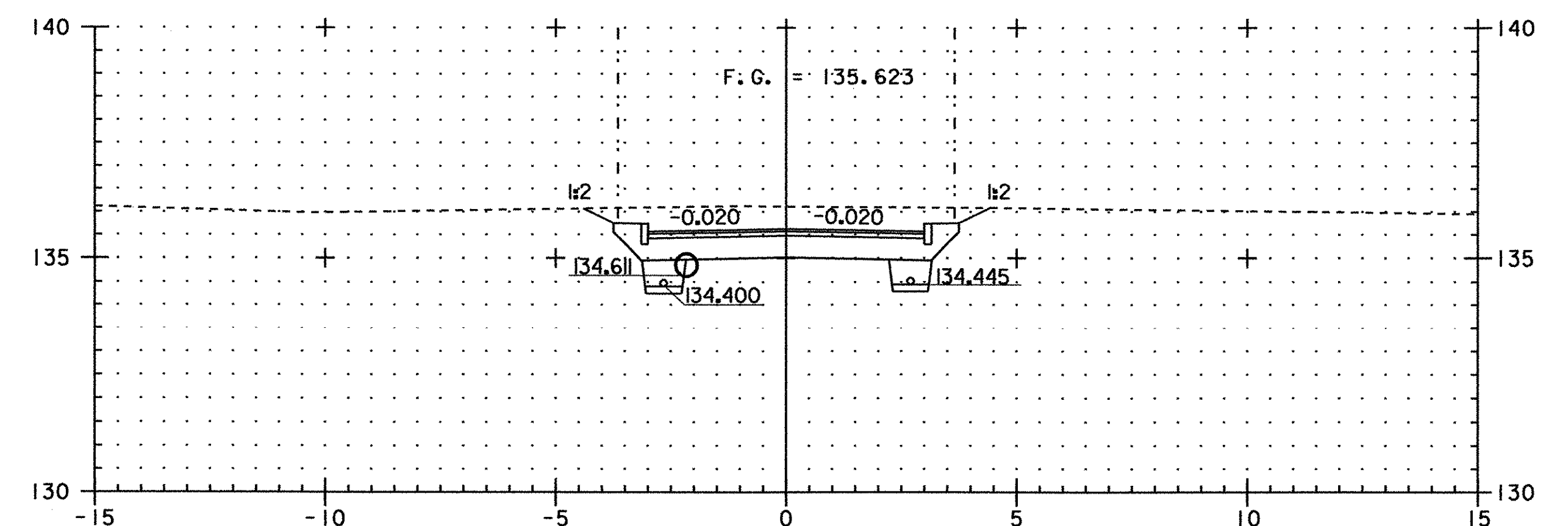
26+010
BEGIN SIDE LINE CONSTRUCTION



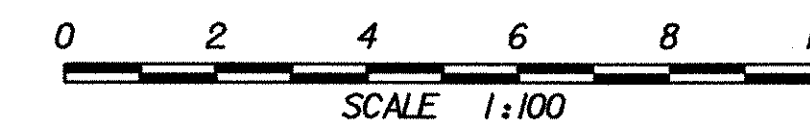
26+030



26+000

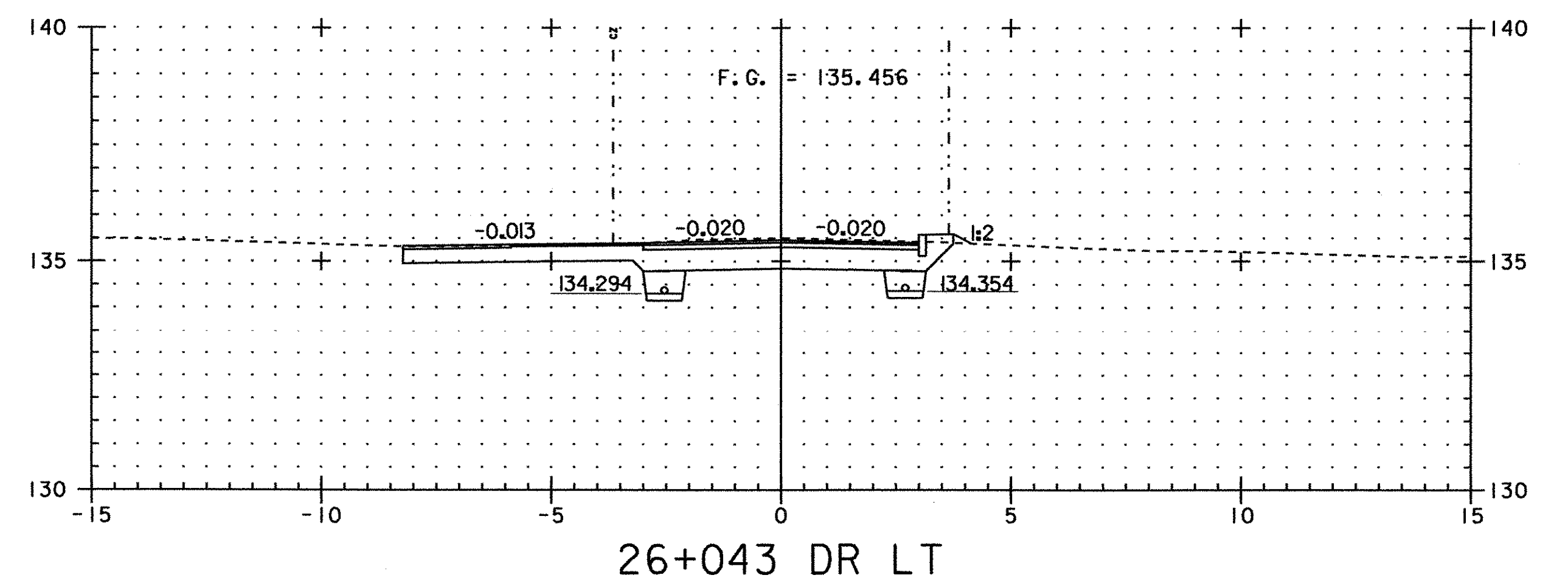
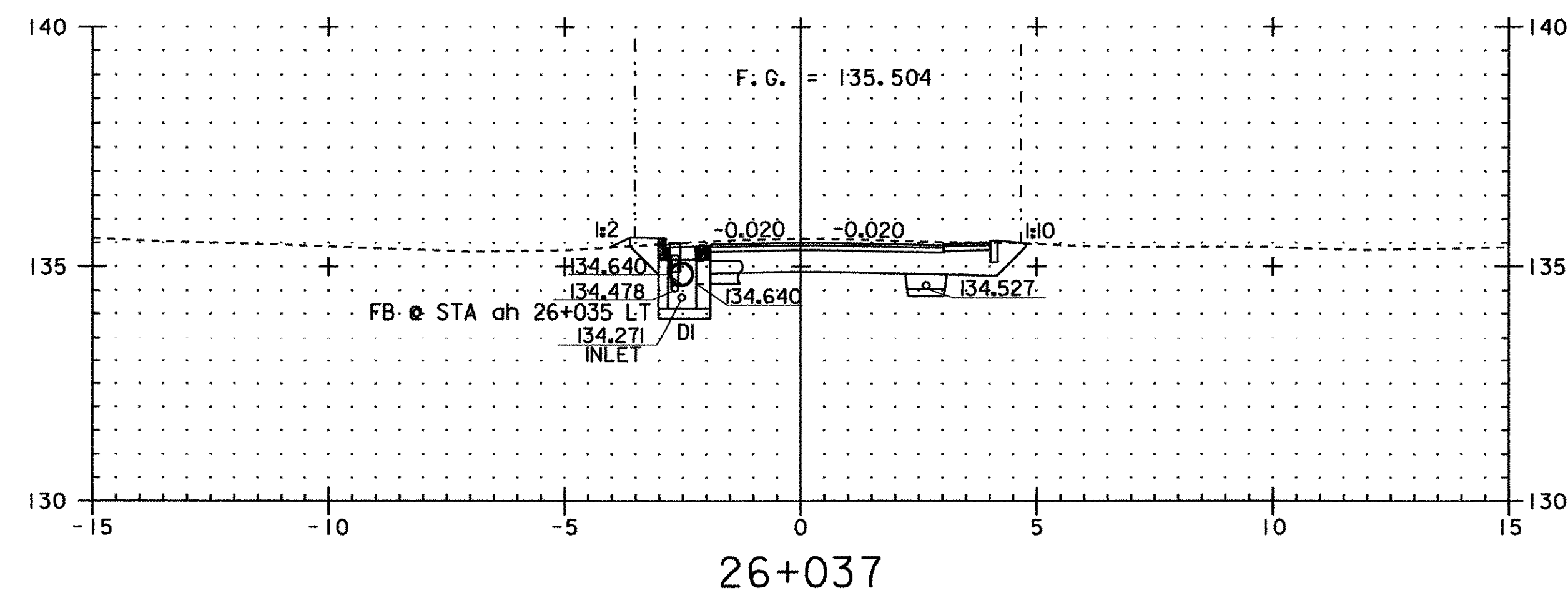
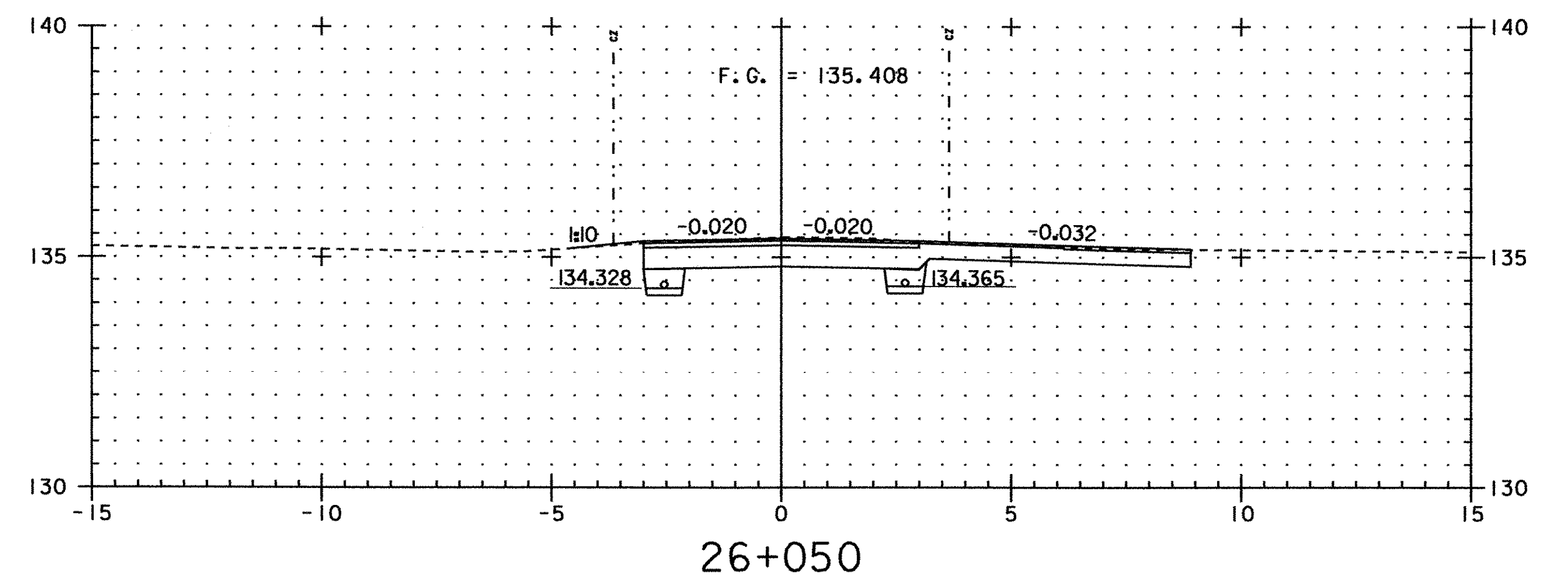
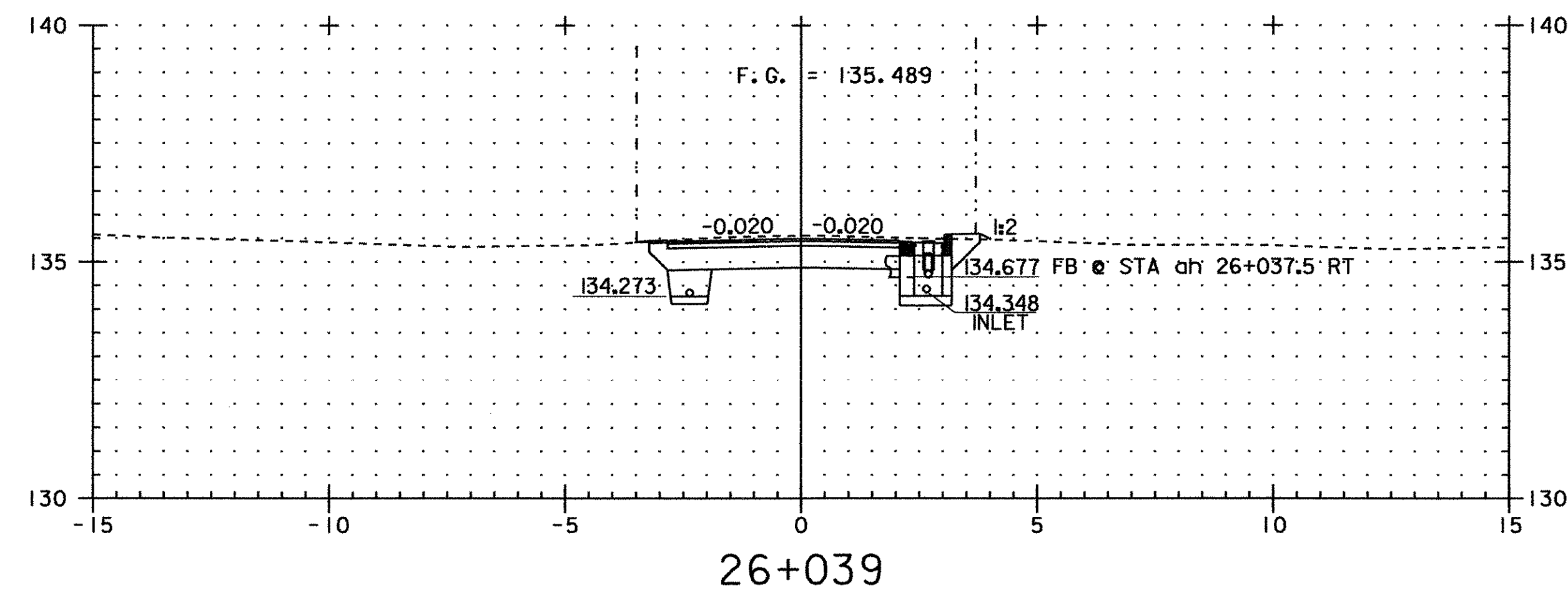
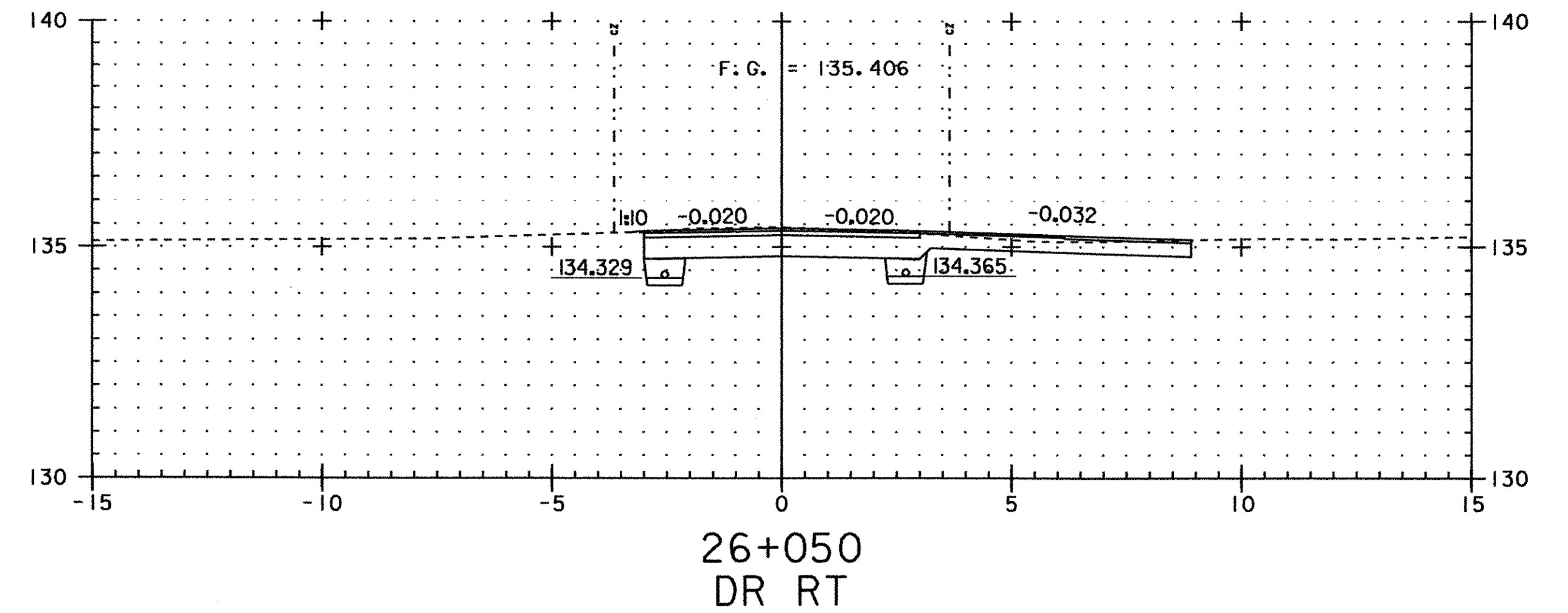
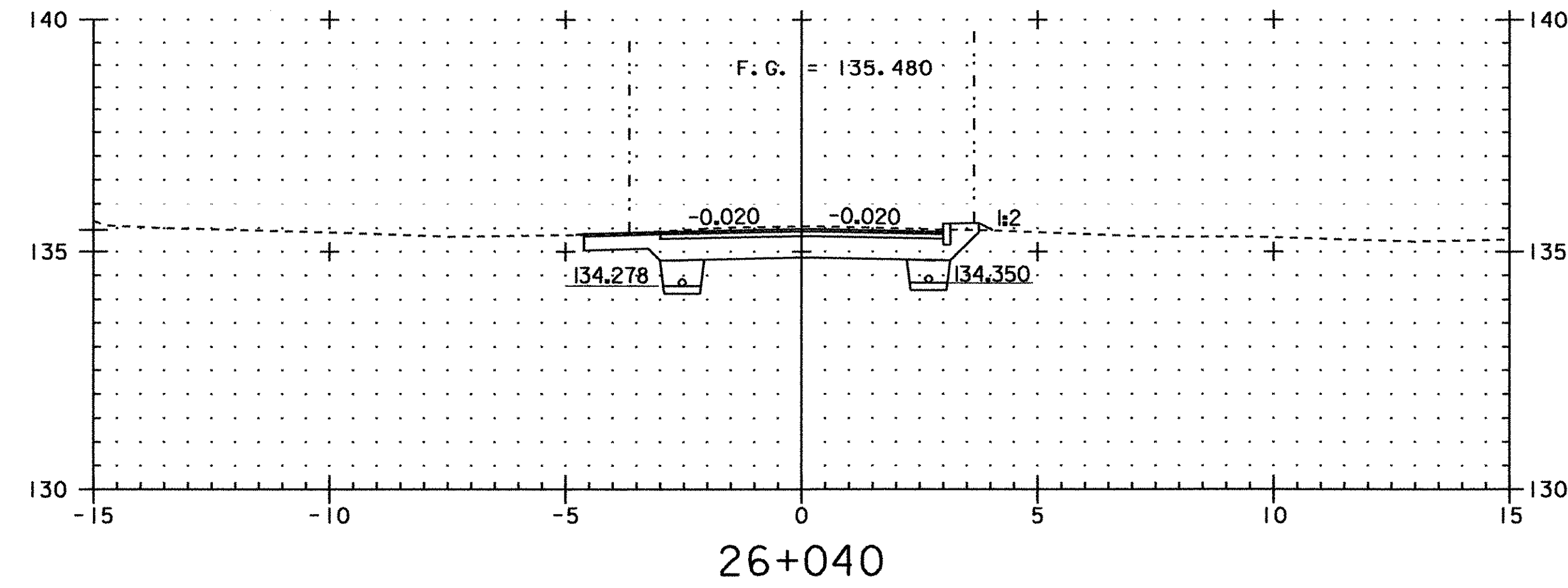


26+020



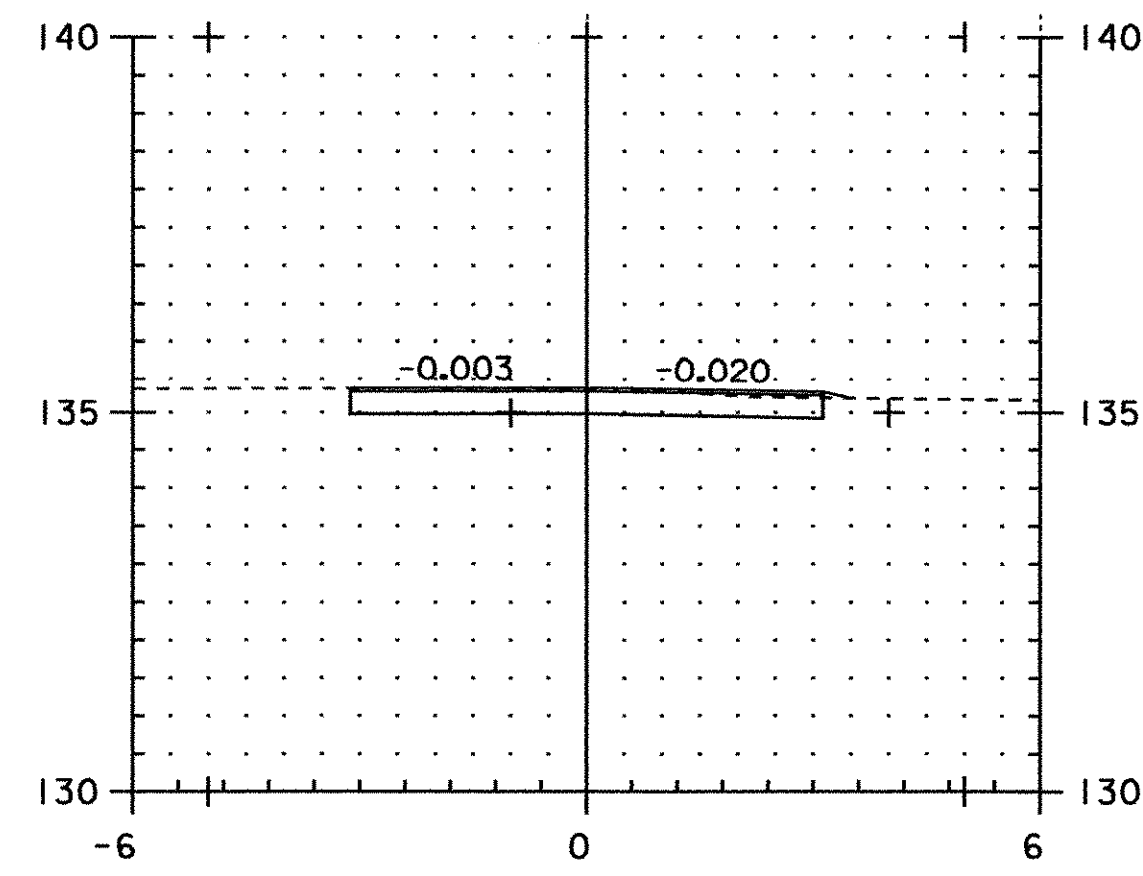
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PROJECT NUMBER:	STP 030I(18)	PROJECT LEADER:	DELLASANTA	DRAWN BY:	SQUAD B
		DESIGNED BY:	SQUAD B	CHECKED BY:	SQUAD B
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TH #16 SECTIONS

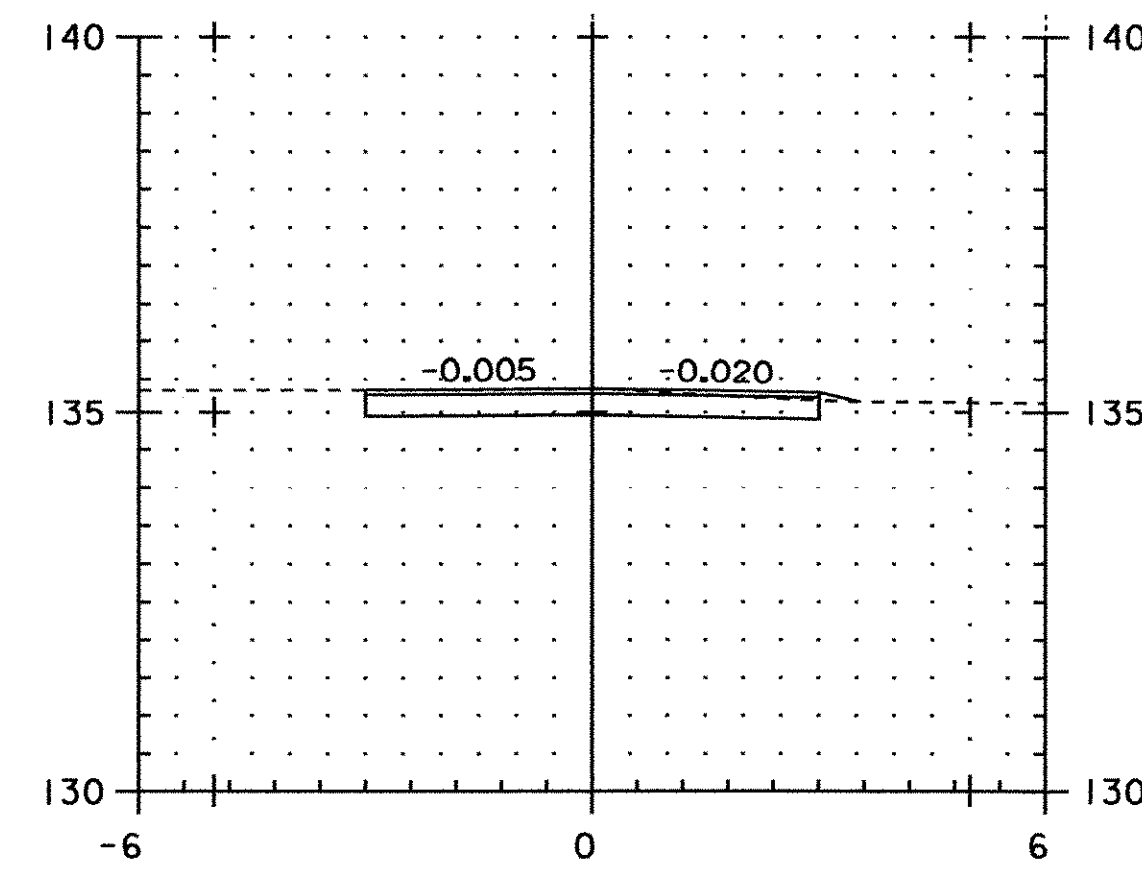


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PROJECT NUMBER:	STP 030(18)
FILE NAME:	...85c060\design\dc060x12.dgn
PROJECT LEADER:	DELLASANTA
DESIGNED BY:	SQUAD B
IPARM FILE NAME:	(2)dc060x13.l
PLOT DATE:	20-MAR-2003
DRAWN BY:	SQUAD B
CHECKED BY:	SQUAD B
SHEET	57 OF 60

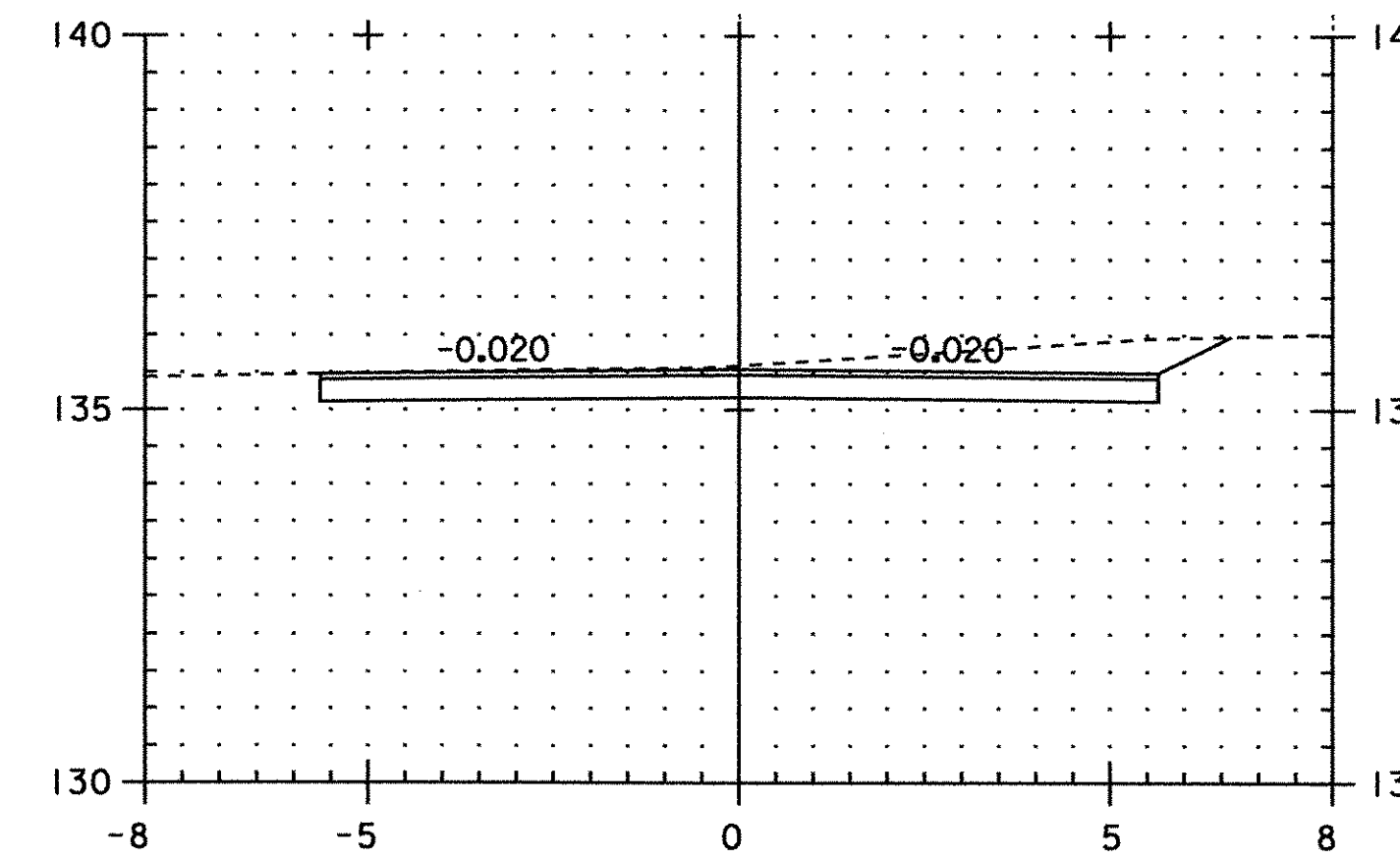
TH #16 SECTIONS



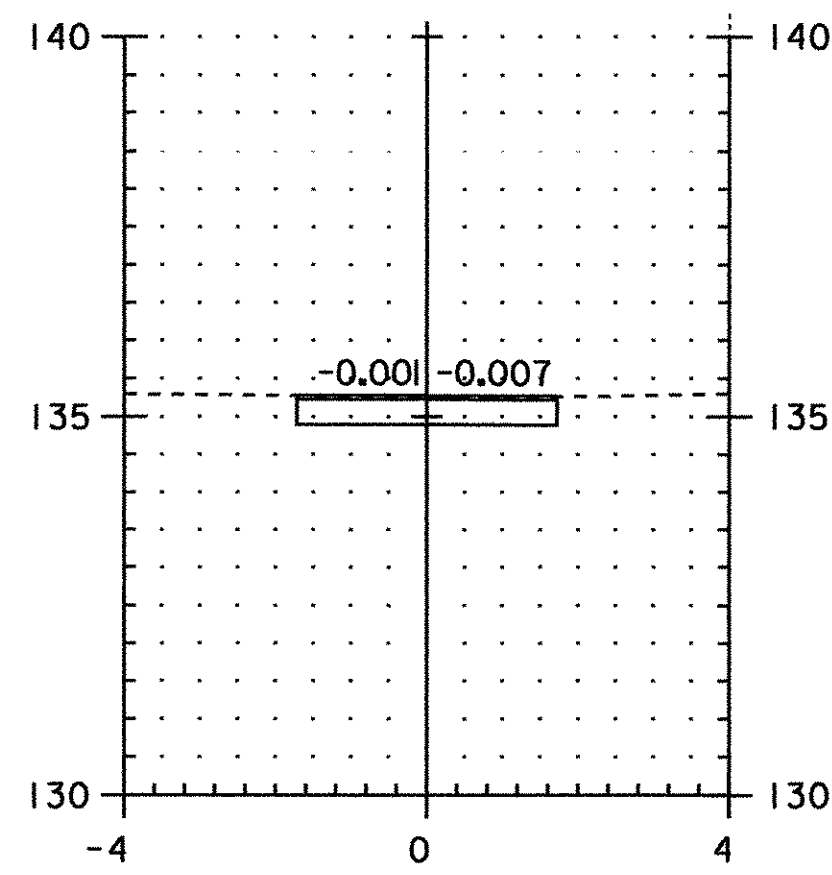
TH #16
DRIVE @ 26+043 LT
5M BACK FROM CL



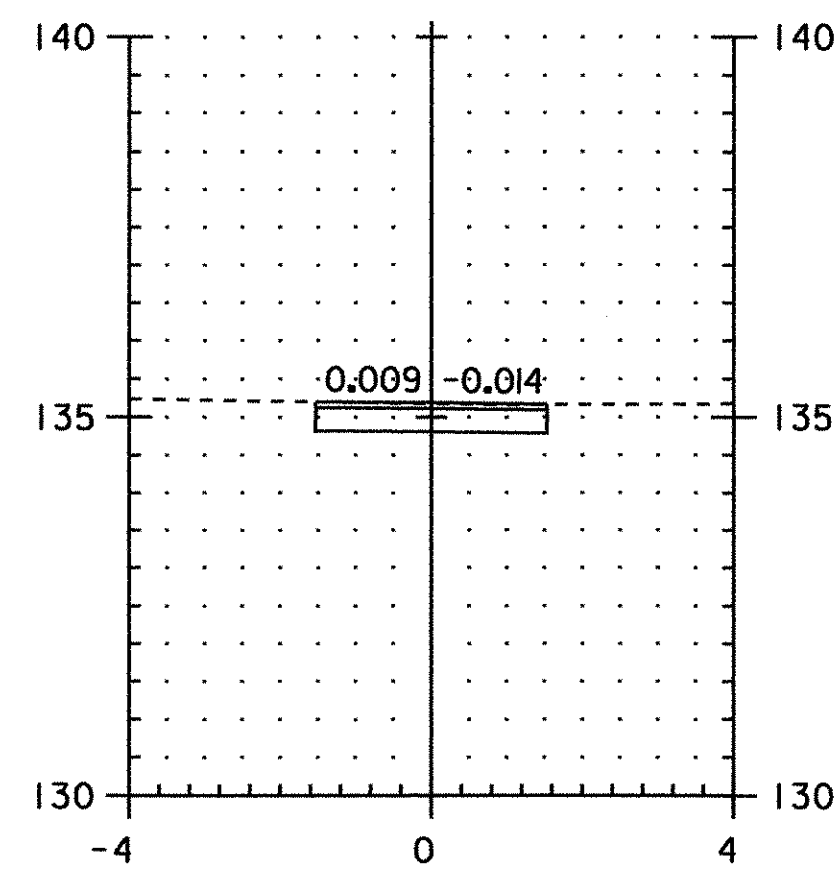
TH #16
DRIVE @ 26+043 LT
8M BACK FROM CL



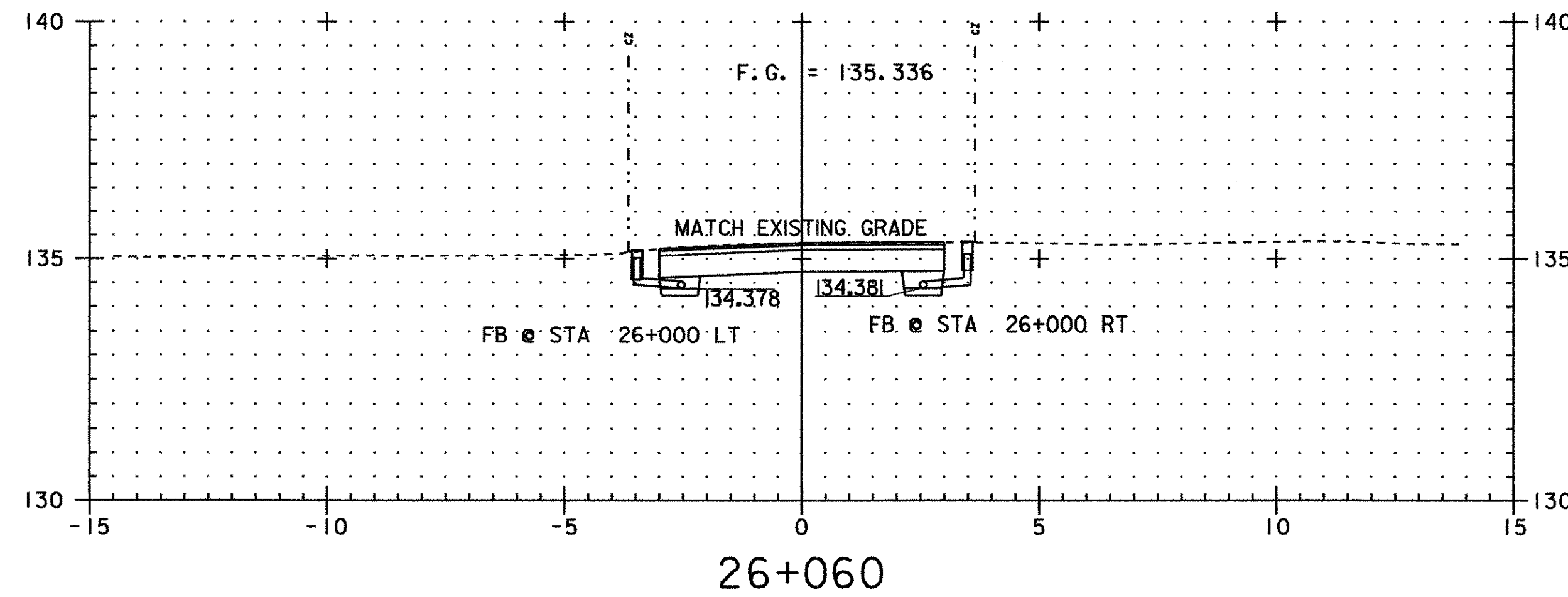
TH #16
DRIVE @ 26+030 RT
5M BACK FROM CL



TH #16
DRIVE @ 26+050 RT
5M BACK FROM CL



TH #16
DRIVE @ 26+050 RT
8M BACK FROM CL



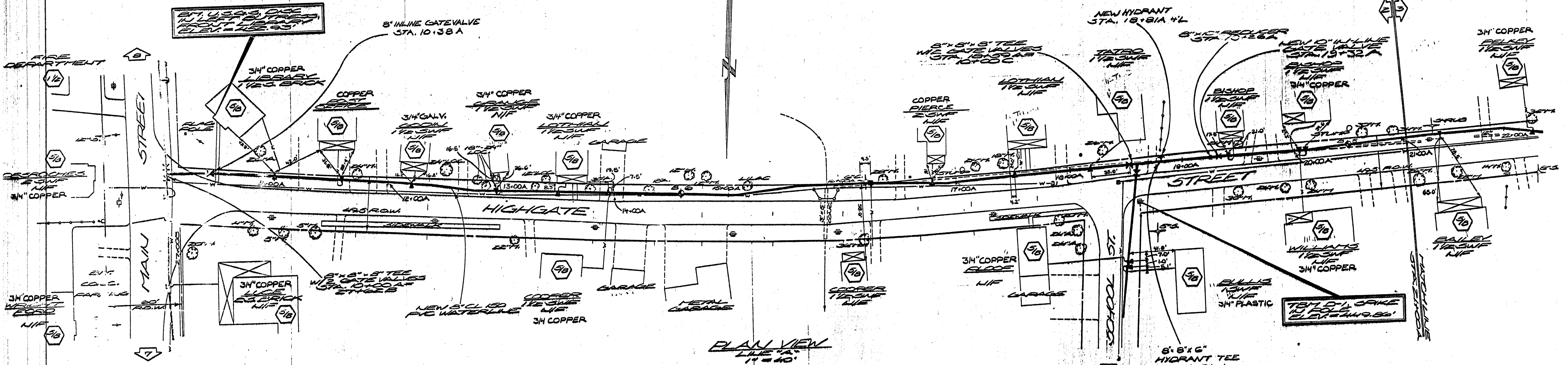
26+060



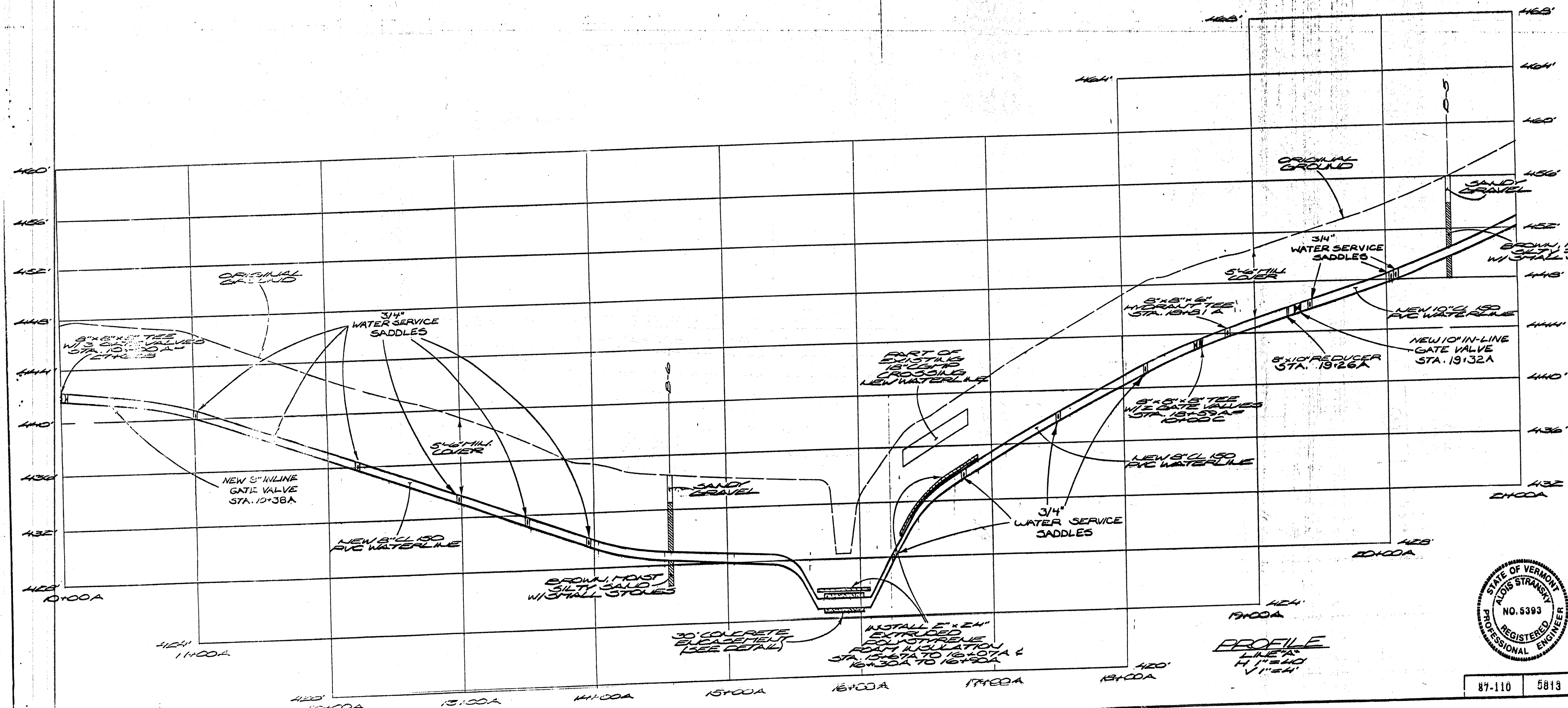
PROJECT NAME: FRANKLIN
PROJECT NUMBER: STP 030(18)

FILE NAME: ...85c060\design\dc060x12.dgn PLOT DATE: 20-MAR-2003
PROJECT LEADER: DELLASANTA DRAWN BY: SQUAD B
DESIGNED BY: SQUAD B CHECKED BY: SQUAD B
IPARM FILE NAME: (2)dc060x14.I SHEET 58 OF 60

at locations which may be in the immediate vicinity of underground utilities.



PLAN VIEW
LINE "A"
1"=40'



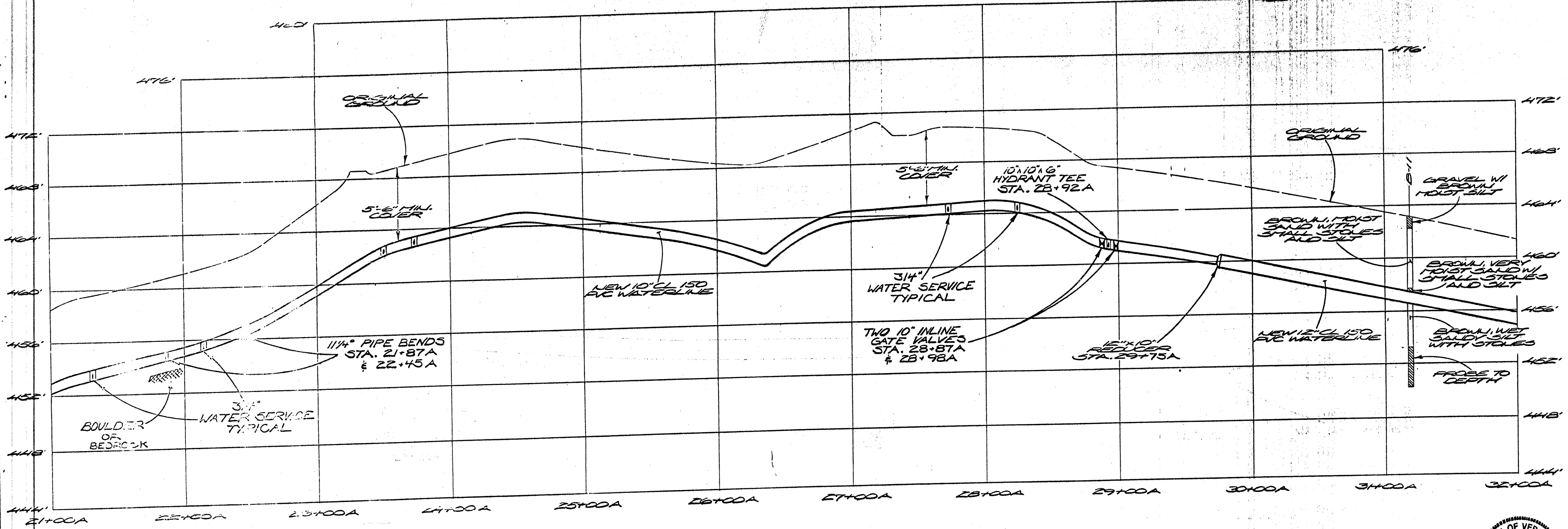
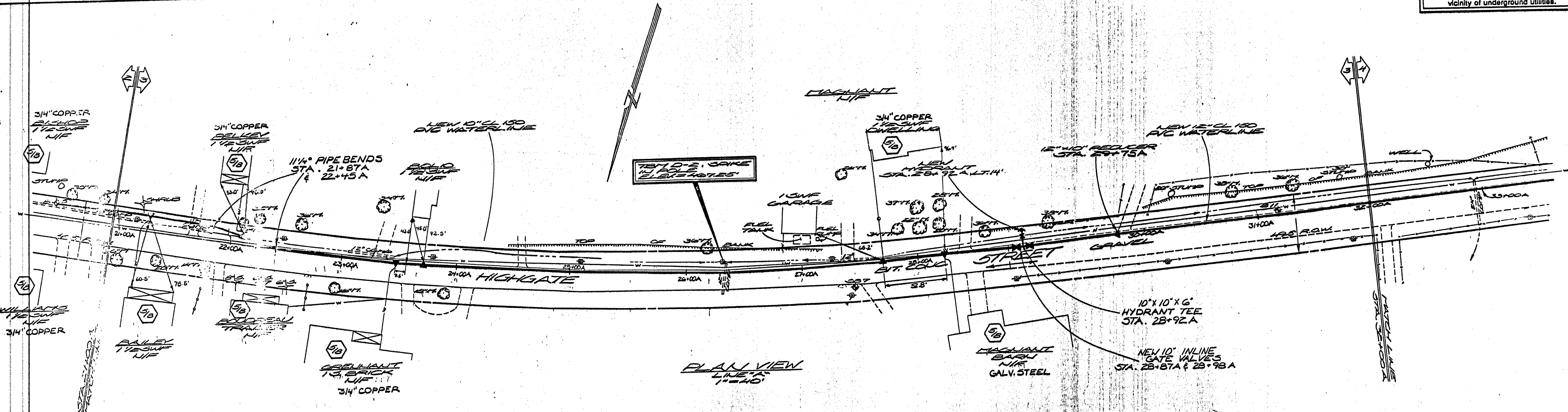
PROFILE
LINE "A"
1"=40'

RECORD DRAWING
FEBRUARY 1990

2/20/90	RECORD DRAWING	TCR
DATE 7/6/88	REVISION ADDED GATE VALVE STA. 18+95A	BY AS
FRANKLIN FIRE DISTRICT No. 1 FRANKLIN, VERMONT		
PLAN and PROFILE 10 + 00A to 21 + 00A		
SURVY MRM		SCALE SHOWN
DESIGN AS		DATE 5/24/88
DRAWN JRD		DRW. NO. 2 of 20
CHECKED AS/MCW		57 OF 60
87-110	5813	

Donald L. Hamlin

CONSULTING ENGINEERS, INC.
Essex Junction, Vermont



PROFILE
LINE "A"
1"=40'
V"=4'

RECORD DRAWING
FEBRUARY 1990

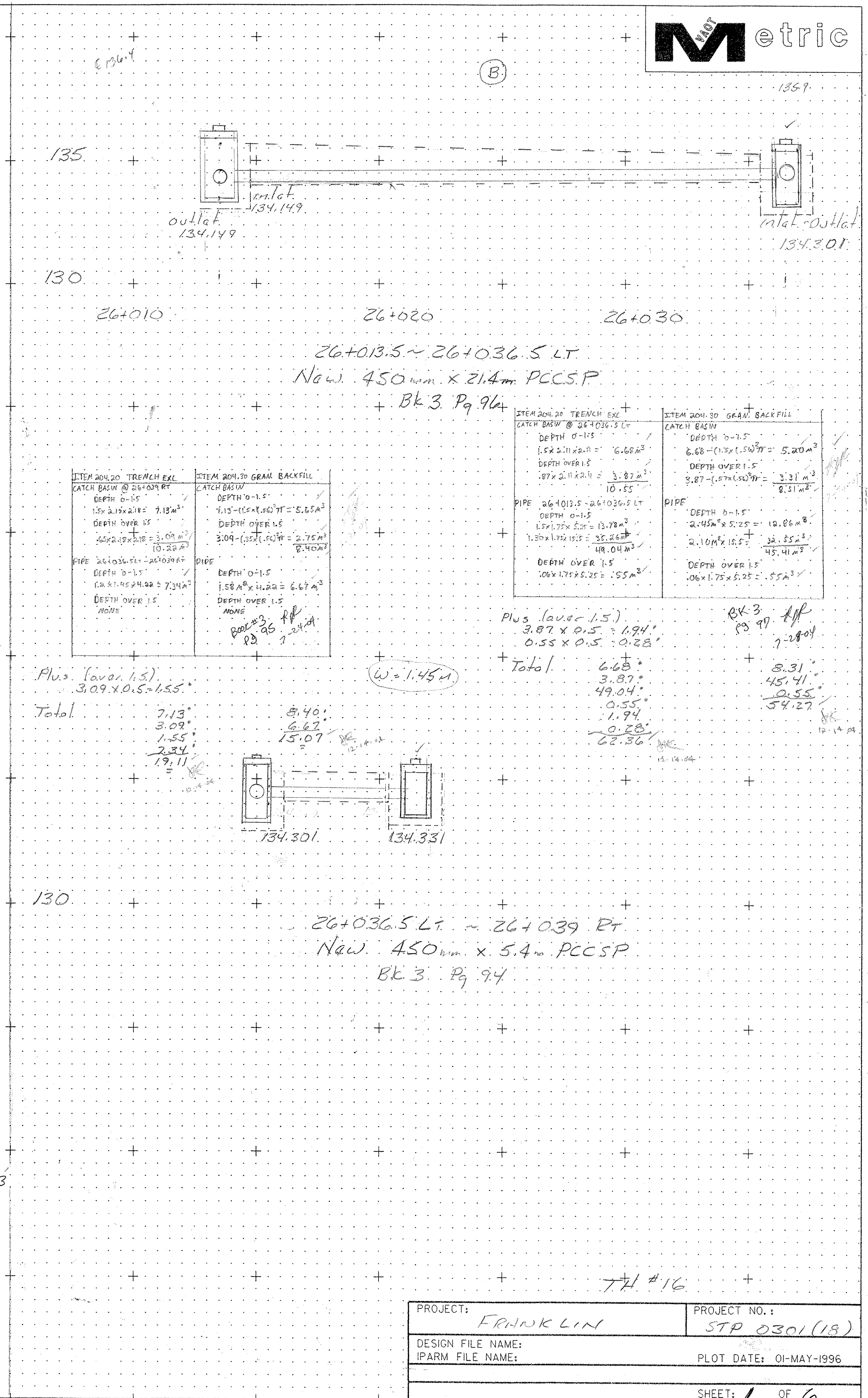
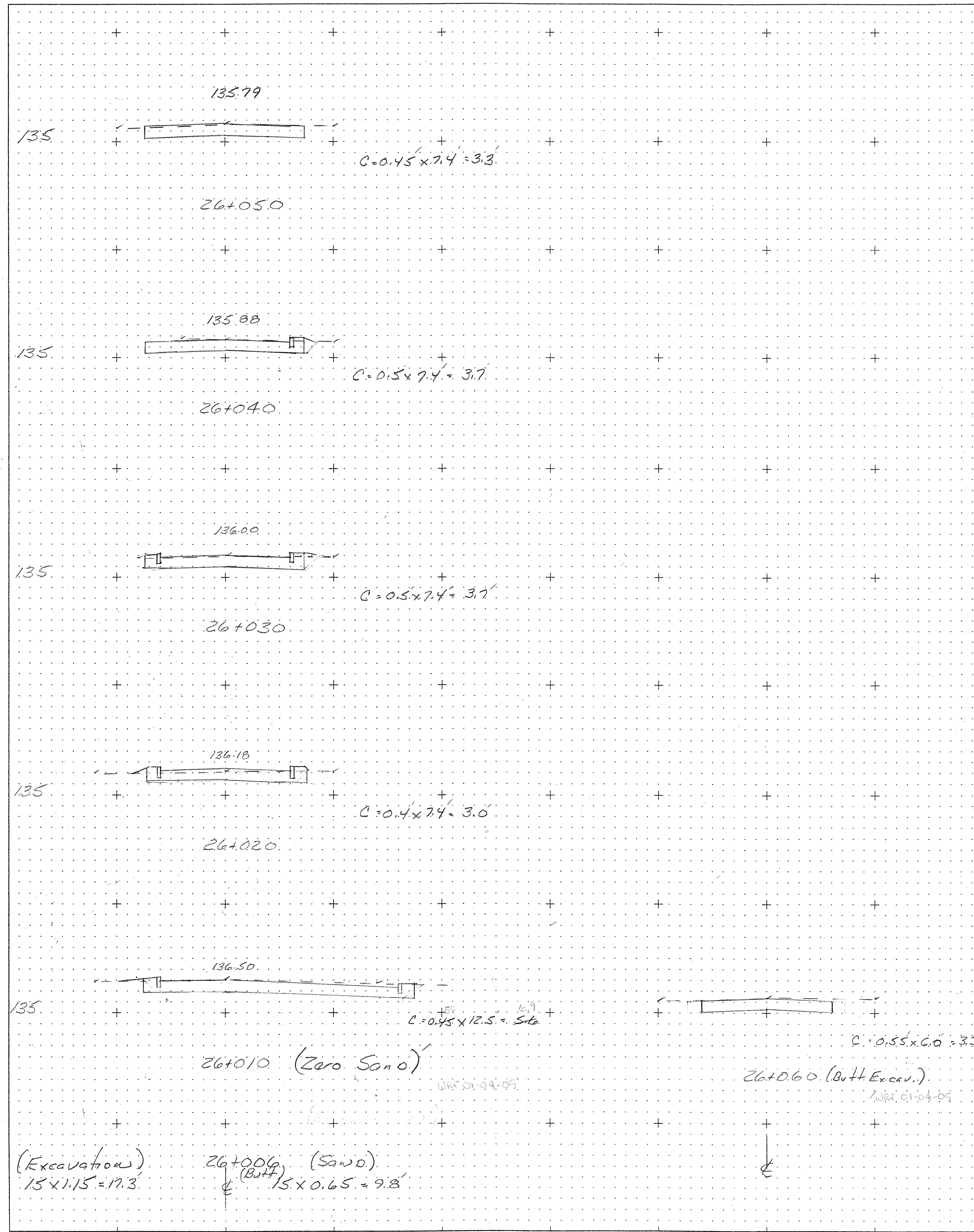


212070	RECORD DRAWING	TCR
DATE 11/6/88	REVISION ADD GATE VALVES STA. 28+87A & 28+98A	BY AS

FRANKLIN FIRE DISTRICT No. 1
FRANKLIN, VERMONT

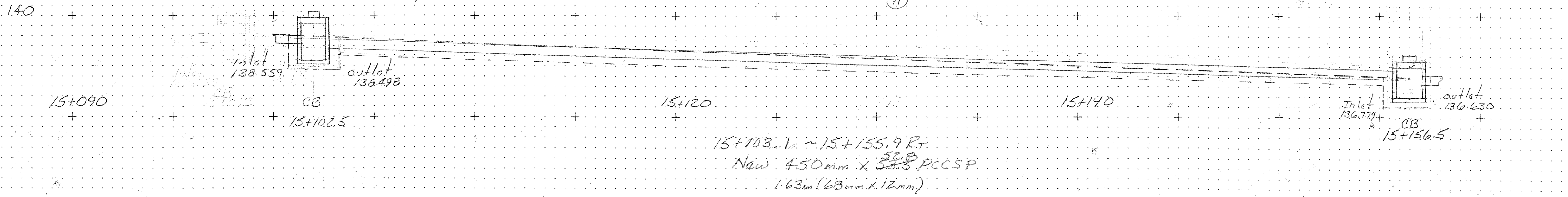
PLAN and PROFILE
21 + 00A to 32 + 00A

SURVEY MRM	Donald C. Hamlin CONSULTING ENGINEERS, INC. Essex Junction, Vermont	SCALE SHOWN
DESIGN AS		DATE 5/24/88
DRAWN JRD		DRW. NO. 3 of 20
CHECKED AS/MCW		60 of 60



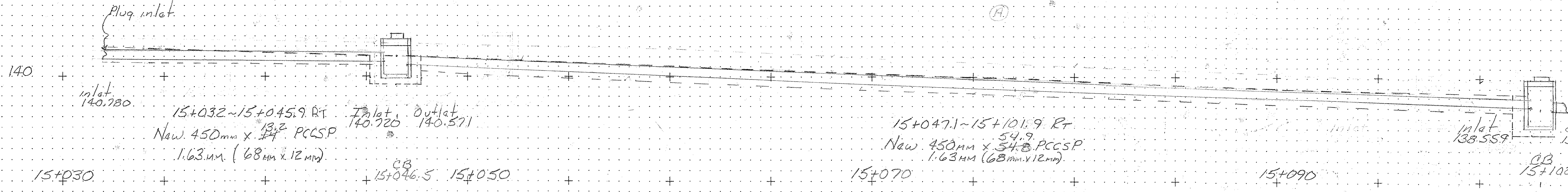
<p>ITEM 204.20 TRENCH ETC CATCH BASIN @ 15+102.5 RT DEPTH 0-1.5 1.5x2.52x2.52 = 9.53 m³ DEPTH OVER 1.5 1.14x0.53x2.42 = 0.89 m³ 10.42</p> <p>PIPE 15+102.1-15+155.9 RT DEPTH 0-1.5 1.6x1.75x51.85 = 54.89 m³ DEPTH OVER 1.5 NONE 0.89x1.5 = 1.34 59.89 Total 70.76</p>	<p>ITEM 204.30 GRAN. BACKFILL CATCH BASIN DEPTH 0-1.5 0.57-(1.37x1.75) = 7.17 m³ DEPTH OVER 1.5 1.14x2.52x2.42 = 8.06 m³</p> <p>PIPE DEPTH 0-1.5 1.01x2.51x51.85 = 52.32 m³ DEPTH OVER 1.5 NONE Total 60.43</p>
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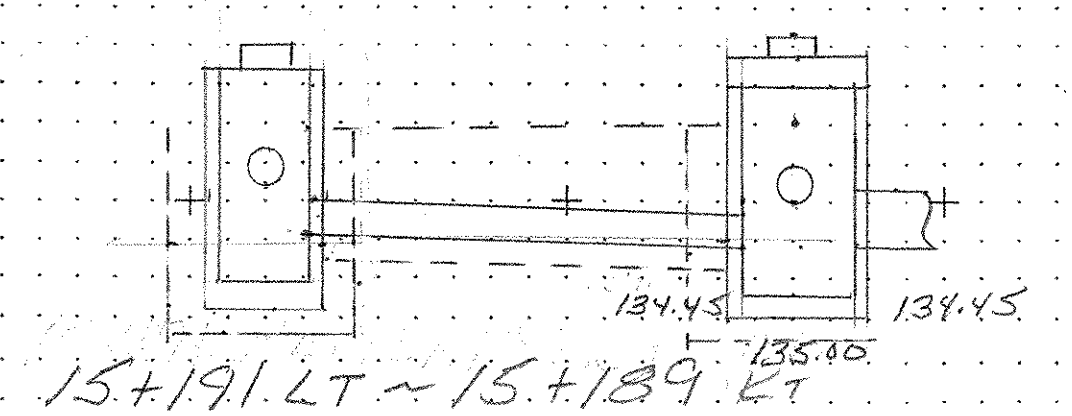
Bk 3 Pg 67



<p>ITEM 204.20 TRENCH ETC PIPE 15+032-15+045.9 RT DEPTH 0-1.5 1.4x1.75x13.2 = 14.1 m³ DEPTH OVER 1.5 NONE</p> <p>ITEM 204.30 GRAN. BACKFILL CATCH BASIN DEPTH 0-1.5 0.81x2.51x2.42 = 10.16 m³ DEPTH OVER 1.5 NONE</p>	<p>ITEM 204.20 TRENCH ETC CATCH BASIN @ 15+046.5 RT DEPTH 0-1.5 1.4x2.52x2.52 = 8.89 m³ DEPTH OVER 1.5 NONE</p> <p>PIPE 15+047.1-15+101.9 RT DEPTH 0-1.5 1.6x1.75x54.8 = 77.36 m³ DEPTH OVER 1.5 NONE Total 86.19</p>	<p>ITEM 204.30 GRAN. BACKFILL CATCH BASIN DEPTH 0-1.5 0.88-(1.1x1.75) = 7.0 m³ DEPTH OVER 1.5 NONE</p> <p>PIPE DEPTH 0-1.5 1.36x2.51x54.8 = 67.98 m³ DEPTH OVER 1.5 NONE Total 69.68</p>
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Bk 3 Pg 65





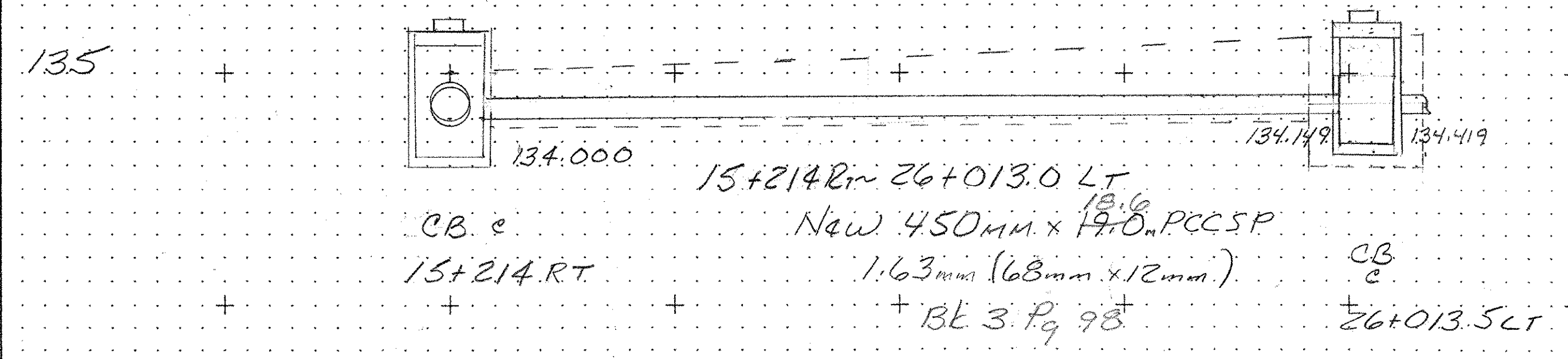
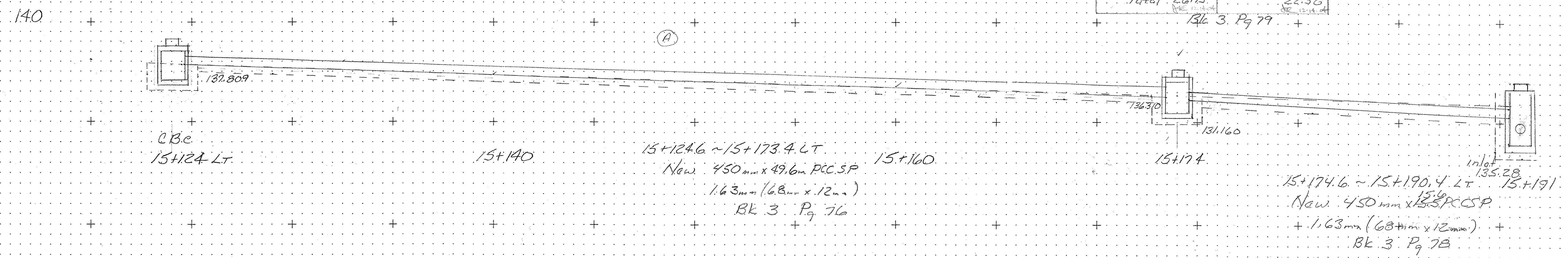
N4W 450mm x 5.8PCCSP
+ 1.63mm (68mm x 12mm)
BK 3 Pg 80

Item 204.20 Trench Exc
CB @ 15+191
0-1.5
1.5 x 2.48 x 2.18
CB = 9.2
0.0 x 1.5
1.15 x 2.48 x 2.18
x 1.5 = 7.1
Ppa
0-1.5
1.5 x 1.75 x 4.45
0.0 x 1.5
0.3 x 1.75 x 4.45
x 1.5 = 3.5
31.5 m³
12.14.04

Item 204.30
CB @ 15+191
2.48 x 2.48 x 2.65
-(1.74 x 1.14 x 2.65) = 11.7
Ppa
1.8 x 1.75 x 4.45 = 14.0
25.7 m³
12.14.04

ITEM 204.20 TRENCH EXC CATCH BASIN @ 15+191 LT DEPTH 0-1.5 1.3 x 2.50 x 2.50 = 8.26 m ³ DEPTH OVER 1.5 NONE PIPE 15+191.6 - 15+173.4 LT DEPTH 0-1.5 1.38 x 1.75 x 4.74 = 27.37 m ³ DEPTH OVER 1.5 NONE Total 35.63	ITEM 204.30 GRAN. BACKFILL CATCH BASIN DEPTH 0-1.5 2.26 - (1.00 x 1.74) = 2.46 m ³ DEPTH OVER 1.5 NONE PIPE DEPTH 0-1.5 1.56 x 1.75 x 4.74 = 26.54 m ³ Total 33.00
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ITEM 204.20 TRENCH EXC CATCH BASIN @ 15+174 LT DEPTH 0-1.5 1.4 x 2.48 x 2.48 = 8.61 m ³ DEPTH OVER 1.5 NONE PIPE 15+174.6 - 15+190.4 LT DEPTH 0-1.5 1.71 x 1.75 x 14.6 = 18.14 m ³ DEPTH OVER 1.5 NONE Total 26.75	ITEM 204.30 GRAN. BACKFILL CATCH BASIN DEPTH 0-1.5 2.26 - (1.00 x 1.74) = 2.46 m ³ DEPTH OVER 1.5 NONE PIPE DEPTH 0-1.5 1.08 x 1.75 x 14.6 = 15.77 m ³ DEPTH OVER 1.5 NONE Total 22.58
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ITEM 204.20 TRENCH EXC CATCH BASIN @ 26+013.5 LT DEPTH 0-1.5 1.5 x 2.50 x 2.50 = 9.53 m ³ DEPTH OVER 1.5 1.4 x 2.50 x 2.50 = 9.06 m ³ PIPE 15+214.6 - 26+013.5 LT DEPTH 0-1.5 1.5 x 1.75 x 9.0 = 21.32 m ³ 1.06 x 1.40 x 2.10 = 16.77 m ³ 38.09 m ³ DEPTH OVER 1.5 1.21 x 1.5 x 9.0 = 2.84 m ³ Total 50.3 2.84 x 1.5 = 4.26 65.41	ITEM 204.30 GRAN. BACKFILL CATCH BASIN DEPTH 0-1.5 4.52 - (1.5 x 1.74) = 6.95 m ³ DEPTH OVER 1.5 1.08 - (1.14 x 1.74) = 2.13 m ³ PIPE DEPTH 0-1.5 2.02 x 1.75 = 19.84 m ³ 1.06 x 1.75 = 15.42 m ³ 35.31 m ³ DEPTH OVER 1.5 1.7 x 1.8 = 2.65 m ³ Total 52.04
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ITEM 201.20 TRENCH EXC.	ITEM 201.30 GRAN. BACKFILL FOR STRUCTURES
CATCH BASIN @ 15+214.8 RT DEPTH 0-1.5M 1.5 x 2.03 x 2.03 = 12.01M ³ DEPTH OVER 1.5M 0.77 x 2.03 x 2.03 = 6.17M ³ PIPE @ 15+214.8 - 15+257.8 RT DEPTH 0-1.5M 1.04 x 2.05 x 41.5 = 92.73M ³ DEPTH OVER 1.5M NONE	CATCH BASIN DEPTH 0-1.5M 1.20 x (1.5 x 0.91) ² = 8.11 DEPTH OVER 1.5M 6.17 x (1.5 x 0.91) ² = 13.06 PIPE 1.04 x 1.65 x 41.5 = 72.43M ³ DEPTH OVER 1.5M NONE Total 85.49

6.17 x 1.5 = 9.26
92.73
Total 114.00

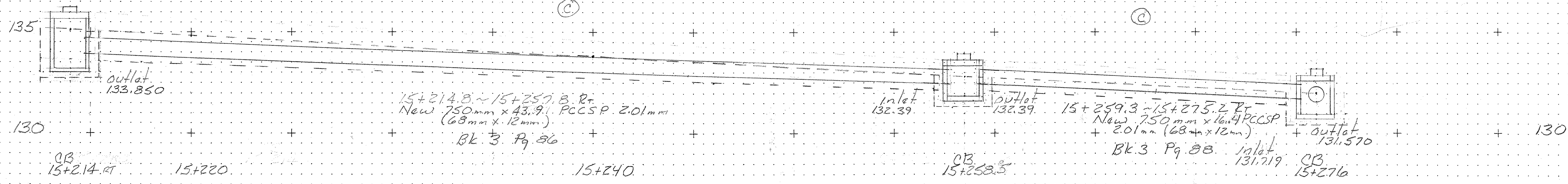
Bk 3 Pg 87

ITEM 201.20 TRENCH EXC.	ITEM 201.30 GRAN. BACKFILL
CATCH BASIN @ 15+259.3 RT DEPTH 0-1.5M 1.5 x 2.03 x 2.03 = 12.01M ³ DEPTH OVER 1.5M NONE PIPE @ 15+259.3 - 15+275.2 RT DEPTH 0-1.5M 0.62 x 2.05 x 19.66 = 18.38M ³ DEPTH OVER 1.5M NONE	CATCH BASIN DEPTH 0-1.5 1.20 x (1.2 x 0.91) ² = 9.41M ³ PIPE DEPTH 0-1.5M 0.81 x 1.65 x 19.66 = 11.84M ³ DEPTH OVER 1.5M NONE Total 21.25

Total 31.17

Total 21.25

Book #3
Pg 89
Bk 2-28-01



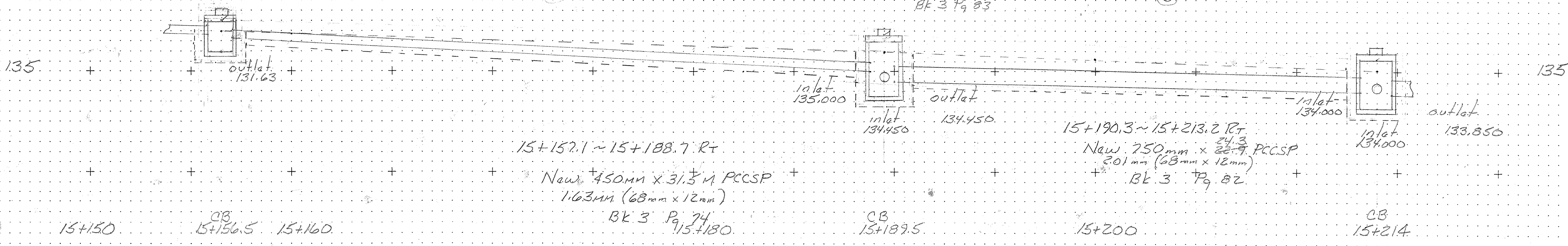
ITEM 204 TRENCH EXC.	ITEM 204.30 GRAN. BACKFILL FOR STRUCTURES
CATCH BASIN @ 15+156.5 RT DEPTH 0-1.5M 1.5 x 2.55 x 2.55 = 9.75M ³ DEPTH OVER 1.5M 1.2 x 2.55 x 2.55 = 7.8M ³ PIPE @ 15+156.5 - 15+188.7 RT DEPTH 0-1.5M 0.77 x 1.75 x 30.35 = 51.52M ³ DEPTH OVER 1.5M NONE	CATCH BASIN DEPTH 0-1.5 1.75 x (1.2 x 1.74) ² = 2.03M ³ DEPTH OVER 1.5M 1.2 x 2.55 x 2.55 = 7.8M ³ PIPE 1.52M ³ x 21.5 = 47.87M ³ Total 57.69

0.77 x 1.5 = 9.25
51.52
Total 62.44

Bk 3 Pg 75

ITEM 204.20 TRENCH EXC.	ITEM 204.30 GRAN. BACKFILL
CATCH BASIN @ 15+188.7 RT DEPTH 0-1.5 1.5 x 2.03 x 2.03 = 11.43M ³ DEPTH OVER 1.5M 1.16 x 2.03 x 2.03 = 8.63M ³ PIPE @ 15+188.7 - 15+213.2 RT DEPTH 0-1.5 1.5 x 2.05 x 21.5 = 66.11 DEPTH OVER 1.5M 1.25 x 2.05 x 15.5 = 3.97M ³ Total 11.93 8.63 x 1.5 = 13.25 66.11 3.97 x 1.5 = 5.96 Total 97.25	CATCH BASIN DEPTH 0-1.5 1.93 x (1.15 x 0.91) ² = 8.03M ³ DEPTH OVER 1.5M 8.81 x (1.01 x 0.91) ² = 6.72M ³ Total 14.75 PIPE DEPTH 0-1.5 2.61M ³ x 21.5 = 56.12M ³ DEPTH OVER 1.5M 1.25 x 2.05 x 15.5 = 3.97M ³ Total 74.84

Bk 3 Pg 83



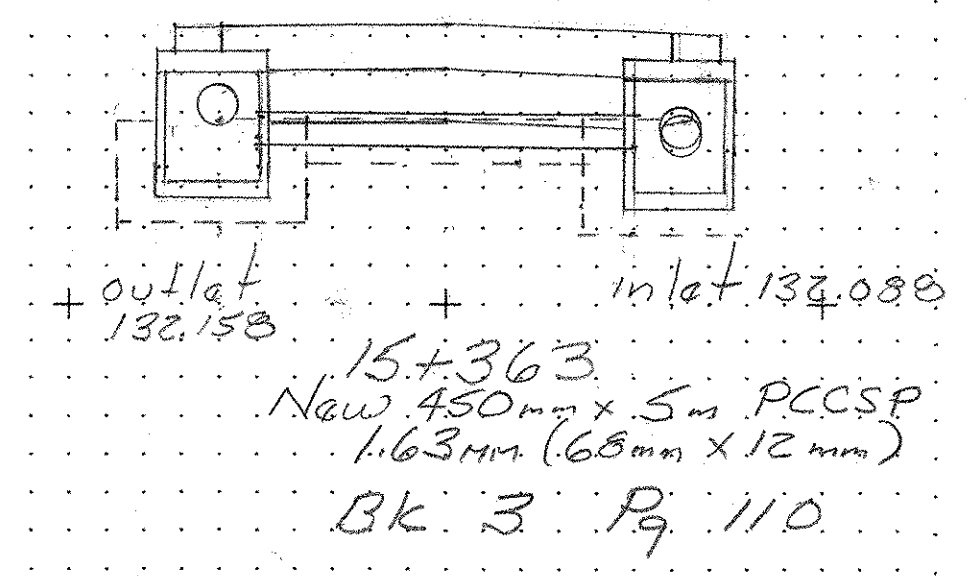
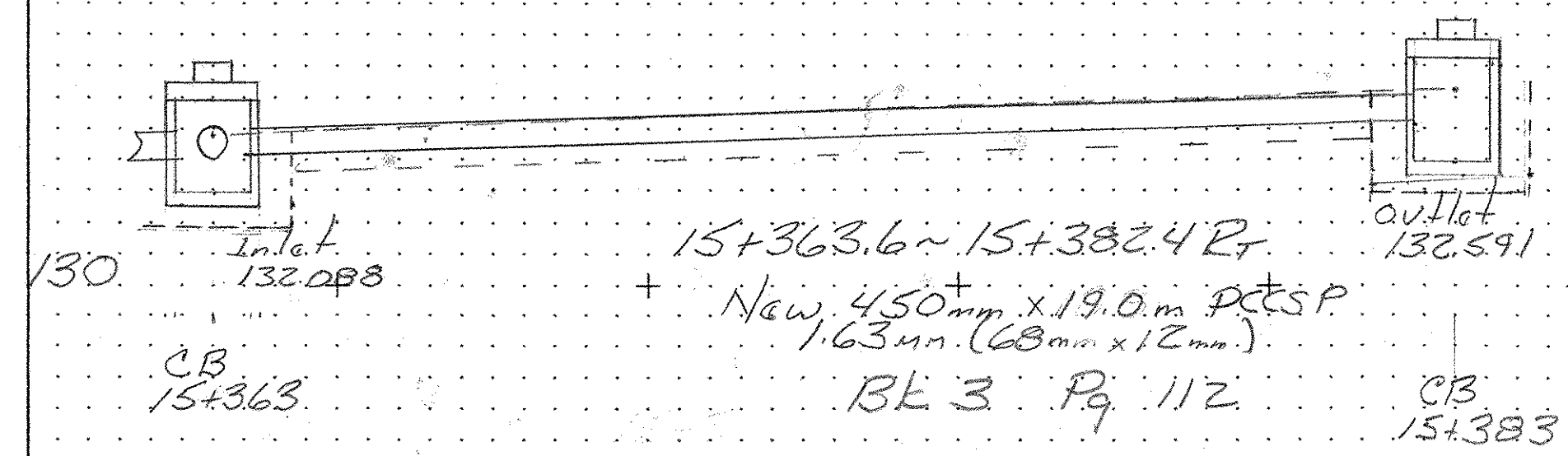
PROJECT: FRANKLIN	PROJECT NO.: STP 0301(18)
DESIGN FILE NAME:	PLOT DATE: 01-MAY-1996
IPARM FILE NAME:	SHEET: 4 OF 6
	069

ITEM 204.20 TRENCH EXC.	ITEM 204.30 GRAM. BACKFILL
CATCH BASIN @ 15+383 RT	CATCH BASIN
DEPTH 0-1.5	DEPTH 0-1.5
1.62 x 2.55 x 2.55 = 9.75 m ³	9.75 - (1.94 x 1.74) m ³ = 7.34 m ³
DEPTH OVER 1.5	DEPTH OVER 1.5
.225 x 2.55 x 2.55 = 1.46 m ³	.225 x 2.55 x 2.55 = 1.46 m ³
NAME	NAME
PIPE 15+363.6 - 15+382.4 RT	PIPE
DEPTH 0-1.5	DEPTH 0-1.5
.71 x 1.75 x 17.35 = 21.56 m ³	1.06 m ² x 17.35 = 18.39 m ³
DEPTH OVER 1.5	DEPTH OVER 1.5
NONE	NONE
9.75	8.90
1.46 x 1.5 = 2.19	18.39
21.56	27.19
Total 34.50	Total 27.19

Bk 3 Pg 113

ITEM 204.20 TRENCH EXC.	ITEM 204.30 GRAM. BACKFILL
CATCH BASIN @ 15+363 LT	CATCH BASIN
DEPTH 0-1.5	DEPTH 0-1.5
1.25 x 2.55 x 2.55 = 8.44 m ³	8.44 - (1.14 x 1.74) m ³ = 6.55 m ³
DEPTH OVER 1.5	DEPTH OVER 1.5
NONE	NONE
PIPE 15+363 LT - 15+363 RT	PIPE
DEPTH 0-1.5	DEPTH 0-1.5
.6 x 1.75 x 3.65 = 3.18	.71 x 1.75 x 3.65 = 2.59
DEPTH OVER 1.5	DEPTH OVER 1.5
NONE	NONE
Total 11.62	Total 9.14

Bk 3 Pg 111



ITEM 204.20 TRENCH EXC.	ITEM 204.30 GRAM. BACKFILL
CATCH BASIN @ 15+311 RT	CATCH BASIN
DEPTH 0-1.5	DEPTH 0-1.5
1.35 x 2.15 x 2.15 = 6.24 m ³	6.24 - (1.04 x 1.74) m ³ = 5.24 m ³
DEPTH OVER 1.5	DEPTH OVER 1.5
NONE	NONE
PIPE 15+293.6 - 15+310.6 RT	PIPE
DEPTH 0-1.5	DEPTH 0-1.5
.63 x 1.75 x 15.6 = 17.26 m ³	.45 x 1.75 x 15.6 = 14.54 m ³
DEPTH OVER 1.5	DEPTH OVER 1.5
NONE	NONE
Total 23.44	Total 19.76

Bk 3 Pg 103

ITEM 204.20 TRENCH EXC.	ITEM 204.30 GRAM. BACKFILL
CATCH BASIN @ 15+319 RT	CATCH BASIN
DEPTH 0-1.5	DEPTH 0-1.5
1.30 x 2.15 x 2.15 = 8.13 m ³	8.13 - (1.06 x 1.74) m ³ = 6.41 m ³
DEPTH OVER 1.5	DEPTH OVER 1.5
NONE	NONE
PIPE 15+311.5 - 15+319.4 RT	PIPE
DEPTH 0-1.5	DEPTH 0-1.5
.47 x 1.75 x 8.85 = 4.56 m ³	.66 x 1.75 x 8.85 = 3.66 m ³
DEPTH OVER 1.5	DEPTH OVER 1.5
NONE	NONE
Total 13.69	Total 10.07

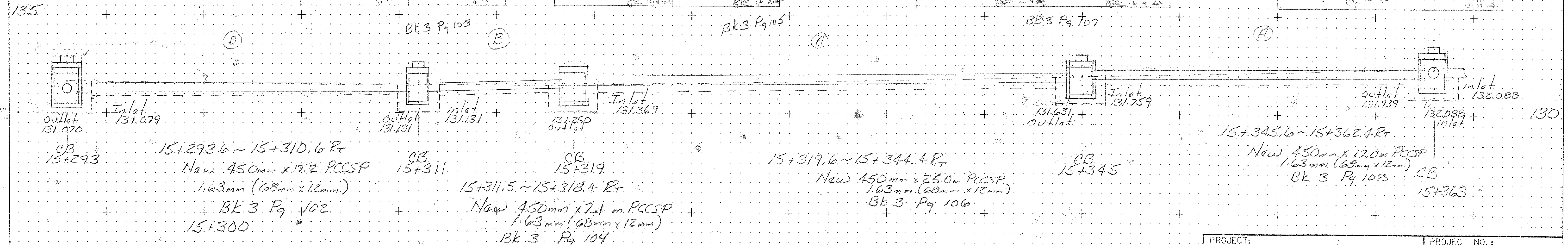
Bk 3 Pg 105

ITEM 204.20 TRENCH EXC.	ITEM 204.30 GRAM. BACKFILL
CATCH BASIN @ 15+345 RT	CATCH BASIN
DEPTH 0-1.5	DEPTH 0-1.5
1.43 x 2.55 x 2.55 = 9.30 m ³	9.30 - (1.13 x 1.74) m ³ = 7.36 m ³
DEPTH OVER 1.5	DEPTH OVER 1.5
NONE	NONE
PIPE 15+319.6 - 15+345.4 RT	PIPE
DEPTH 0-1.5	DEPTH 0-1.5
.47 x 1.75 x 25.88 = 19.03 m ³	.72 x 1.75 x 23.38 = 16.83 m ³
DEPTH OVER 1.5	DEPTH OVER 1.5
NONE	NONE
Total 28.53	Total 24.19

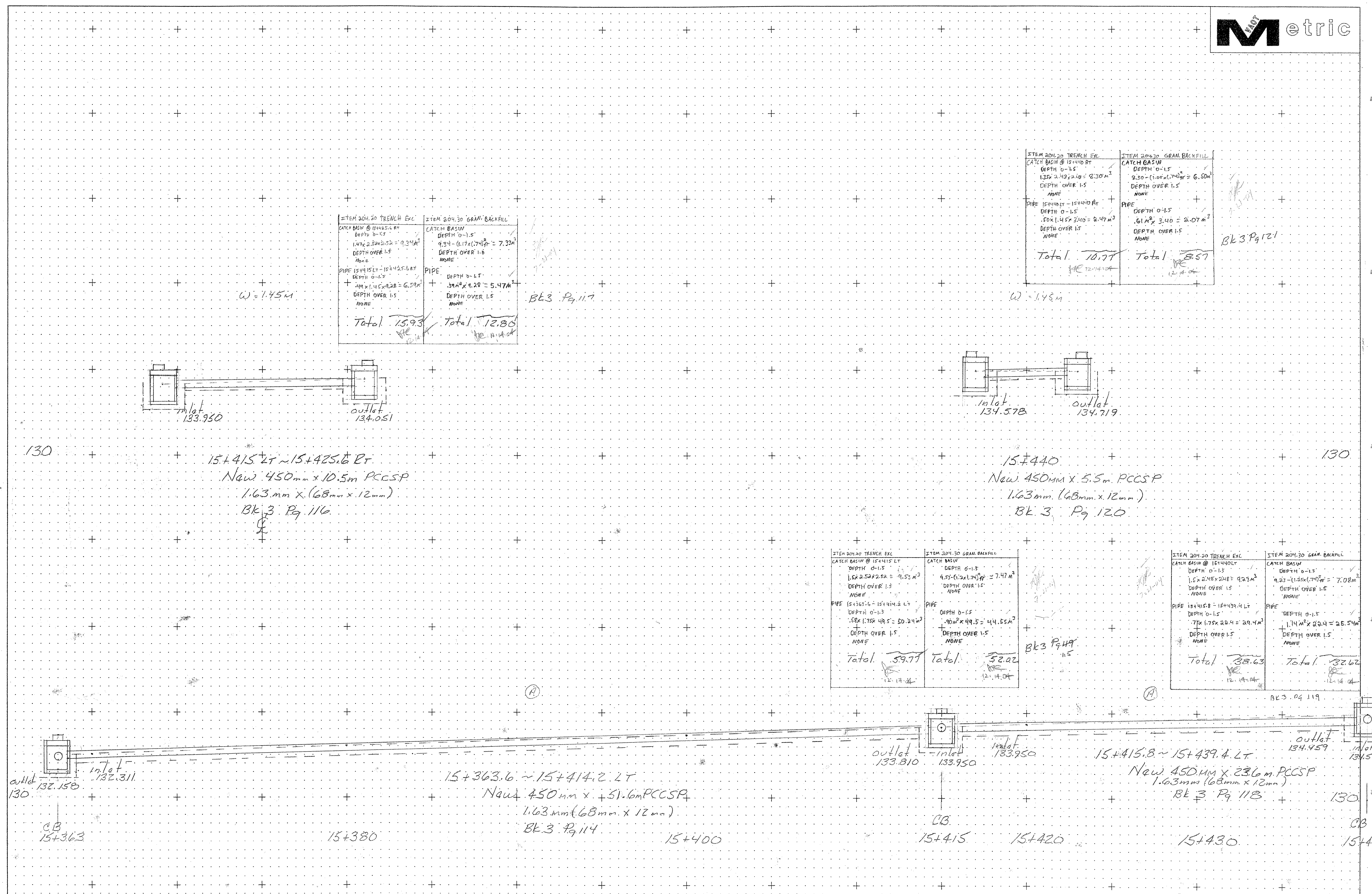
Bk 3 Pg 107

ITEM 204.20 TRENCH EXC.	ITEM 204.30 GRAM. BACKFILL
CATCH BASIN @ 15+363 RT	CATCH BASIN
DEPTH 0-1.5	DEPTH 0-1.5
1.62 x 2.55 x 2.55 = 10.14 m ³	10.14 - (1.2 x 1.74) m ³ = 8.08 m ³
DEPTH OVER 1.5	DEPTH OVER 1.5
NONE	NONE
PIPE 15+345.6 - 15+362.4 RT	PIPE
DEPTH 0-1.5	DEPTH 0-1.5
.61 x 1.75 x 15.49 = 16.59 m ³	.81 x 1.75 x 14.9 = 13.79 m ³
DEPTH OVER 1.5	DEPTH OVER 1.5
NONE	NONE
Total 26.68	Total 21.87

Bk 3 Pg 109



PROJECT: FRANKLIN	PROJECT NO.: STP 0301(18)
DESIGN FILE NAME:	PLOT DATE: 01-MAY-1996
IPARM FILE NAME:	SHEET: 5 OF 6
	065



ITEM 204.20 TRENCH EXC	ITEM 204.30 GRAN. BACKFILL
CATCH BASIN @ 15+415 LT	CATCH BASIN
DEPTH 0-1.5	DEPTH 0-1.5
1.47x2.5x0.25 = 0.934m ³	9.34 - (1.17x1.74) = 7.33m ³
DEPTH OVER 1.5	DEPTH OVER 1.5
NONE	NONE
PIPE 15+415.6 - 15+425.6 RT	PIPE
DEPTH 0-1.5	DEPTH 0-1.5
.50x1.45x3.40 = 2.47m ³	.59m ³ x 4.28 = 2.51m ³
DEPTH OVER 1.5	DEPTH OVER 1.5
NONE	NONE
Total 15.93	Total 12.85

W = 1.45m
Blk 3 Pg 117

ITEM 204.20 TRENCH EXC	ITEM 204.30 GRAN. BACKFILL
CATCH BASIN @ 15+440 RT	CATCH BASIN
DEPTH 0-1.5	DEPTH 0-1.5
1.35x2.48x2.40 = 8.30m ³	9.30 - (1.05x1.74) = 7.50m ³
DEPTH OVER 1.5	DEPTH OVER 1.5
NONE	NONE
PIPE 15+440.0 - 15+445.0 RT	PIPE
DEPTH 0-1.5	DEPTH 0-1.5
.50x1.45x3.40 = 2.47m ³	.61m ³ x 3.40 = 2.07m ³
DEPTH OVER 1.5	DEPTH OVER 1.5
NONE	NONE
Total 10.77	Total 9.57

W = 1.45m
Blk 3 Pg 121

ITEM 204.20 TRENCH EXC	ITEM 204.30 GRAN. BACKFILL
CATCH BASIN @ 15+415 LT	CATCH BASIN
DEPTH 0-1.5	DEPTH 0-1.5
1.52x2.52x2.52 = 9.53m ³	9.53 - (1.2x1.74) = 7.47m ³
DEPTH OVER 1.5	DEPTH OVER 1.5
NONE	NONE
PIPE 15+415.6 - 15+419.4 LT	PIPE
DEPTH 0-1.5	DEPTH 0-1.5
.58x1.75x4.95 = 50.24m ³	.90m ³ x 4.95 = 4.45m ³
DEPTH OVER 1.5	DEPTH OVER 1.5
NONE	NONE
Total 59.77	Total 52.02

Blk 3 Pg 119

ITEM 204.20 TRENCH EXC	ITEM 204.30 GRAN. BACKFILL
CATCH BASIN @ 15+440 LT	CATCH BASIN
DEPTH 0-1.5	DEPTH 0-1.5
1.5x2.48x2.48 = 9.23m ³	9.23 - (1.25x1.74) = 7.08m ³
DEPTH OVER 1.5	DEPTH OVER 1.5
NONE	NONE
PIPE 15+419.4 - 15+439.4 LT	PIPE
DEPTH 0-1.5	DEPTH 0-1.5
.75x1.75x20.4 = 26.54m ³	1.14m ³ x 20.4 = 23.26m ³
DEPTH OVER 1.5	DEPTH OVER 1.5
NONE	NONE
Total 38.63	Total 32.62

Blk 3 Pg 119