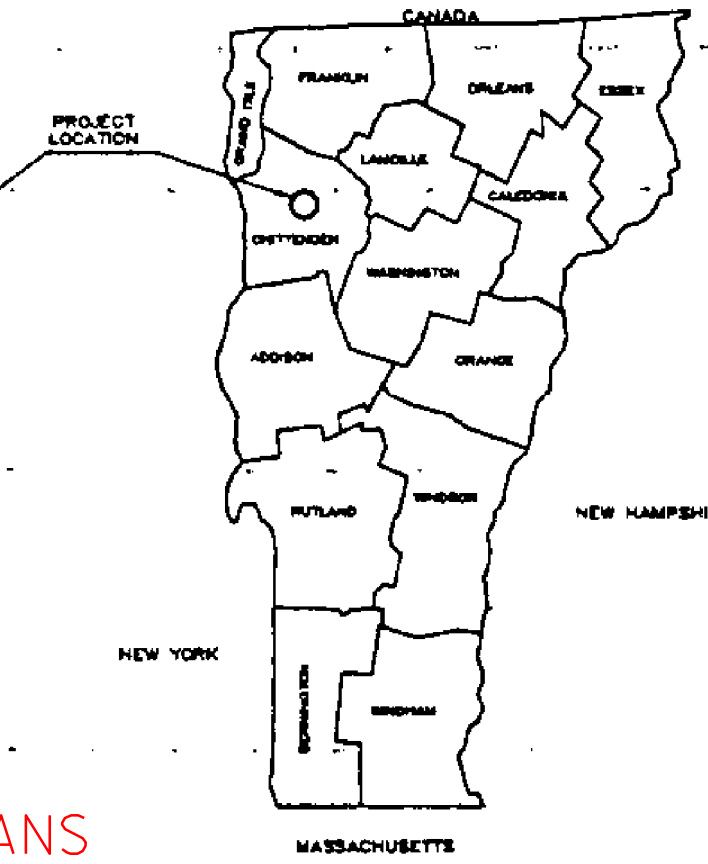
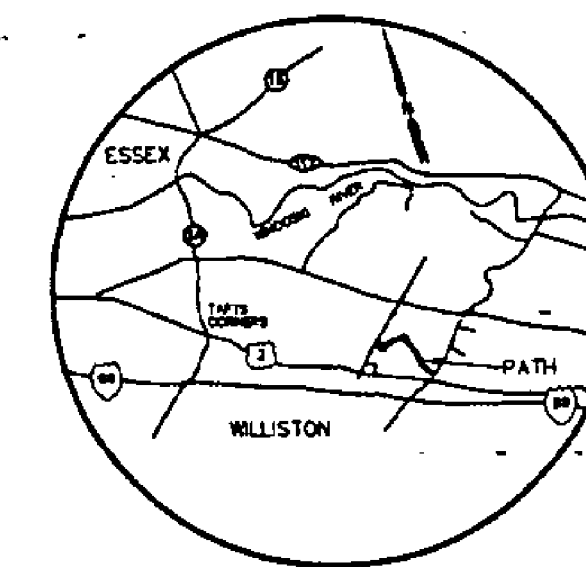
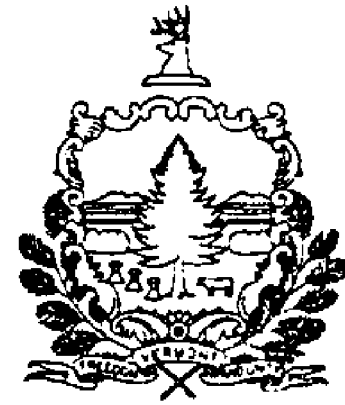


STATE OF VERMONT
AGENCY OF TRANSPORTATION



CONTRACT PLANS

THESE PLANS DO NOT REFLECT
CHANGES MADE ON THE PROJECT.

Date APR 09 1996
Paragon Construction, Inc.
Contractor
[Signature]
Signature
President
Title
[Signature]
Secretary of Transportation's Signature

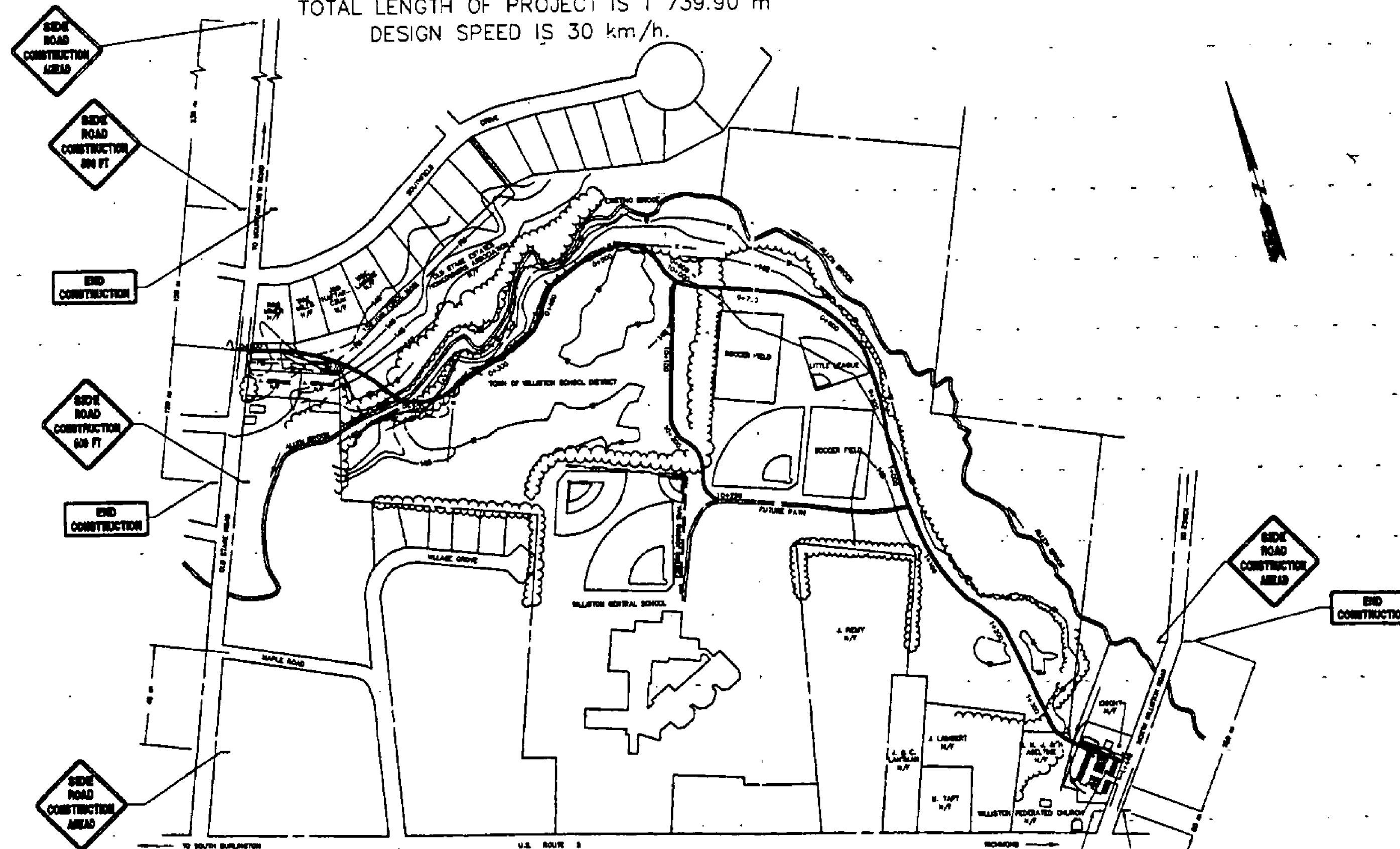
PROPOSED IMPROVEMENT
TOWN OF WILLISTON
COUNTY OF CHITTENDEN
WILLISTON TRANSPORTATION PATH

MAINLINE : BEGINNING AT A POINT 0.549 KILOMETERS NORTH OF U.S. ROUTE 2 AT THE EDGE OF OLD STAGE ROAD AND EXTENDING EASTERLY APPROXIMATELY 1.442 KILOMETERS ALONG ALLEN BROOK TO NORTH WILLISTON ROAD.
SPURLINE : BEGINNING AT STA. 0+609 OF THE MAINLINE AND EXTENDING SOUTHERLY APPROXIMATELY 0.298 KILOMETERS TO THE WILLISTON CENTRAL SCHOOL.
WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES GRADING, DRAINAGE, SUBBASE, PAVEMENT, FENCING, SIGNING, MARKINGS, BRIDGE, AND RELATED ITEMS FOR AN URBAN TRANSPORTATION PATH.

INDEX OF SHEETS

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 2. TYPICALS AND DETAILS
 3. TYPICALS AND DETAILS
 4. QUANTITY SHEETS
 5. QUANTITY SHEETS
 6. ITEM DETAIL AND DRAINAGE SHEET
 7. EARTHWORKS SHEET
 8. PLAN SHEET
 9. PLAN SHEET
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 12. PROFILE SHEET
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 18. CROSS SECTION SHEET
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 21. CROSS SECTION SHEET
 22. WETLAND PLAN
 23. BRIDGE PLAN
 24. BRIDGE DETAILS
 25. BRIDGE DETAILS
 26. BRIDGE DETAILS
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 29. TRAFFIC SIGN SUMMARY SHEET
 30. TRAFFIC SIGN SUMMARY SHEET
 31. TRAFFIC SIGN DETAIL SHEET
 32. BLANK
 33. RIGHT-OF-WAY PLAN (3 OF 6)
 34. RIGHT-OF-WAY PLAN (4 OF 6)
 35. RIGHT-OF-WAY PLAN (5 OF 6)
 36. RIGHT-OF-WAY PLAN (6 OF 6)
- | | | |
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| D-2 | UNDERDRAIN & CARRIER PIPE CONST. DETAIL | 6-1-94 R |
| D-3 | TREATED GUTTERS | 6-1-94 R |
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| E-101 | CONSTRUCTION SIGN DETAILS | 8-8-95 |
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TOTAL LENGTH OF PATH IS 1 723.74 m
TOTAL LENGTH OF BRIDGE IS 16.16 m
TOTAL LENGTH OF PROJECT IS 1 739.90 m
DESIGN SPEED IS 30 km/h.



CONSTRUCTION APPROACH SIGNING:
CONSTRUCTION SIGNING SHALL BE IN ACCORDANCE WITH THIS PLAN, THE VERMONT STATE STANDARD SHEET E-100 AND CHAPTER 6 OF THE MUTCD.

DATUM
VERTICAL NAD 1983
HORIZONTAL N/A

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1995, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON AUGUST 21, 1995 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

Metric

LAMOUREUX, STONE & O'LEARY
Consulting Engineers Inc.
14 Morse Drive
Essex Junction, VT 05452
(802) 878-4450
Engineers-Planners-Surveyors

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED: [Signature]
DIRECTOR OF ENGINEERING

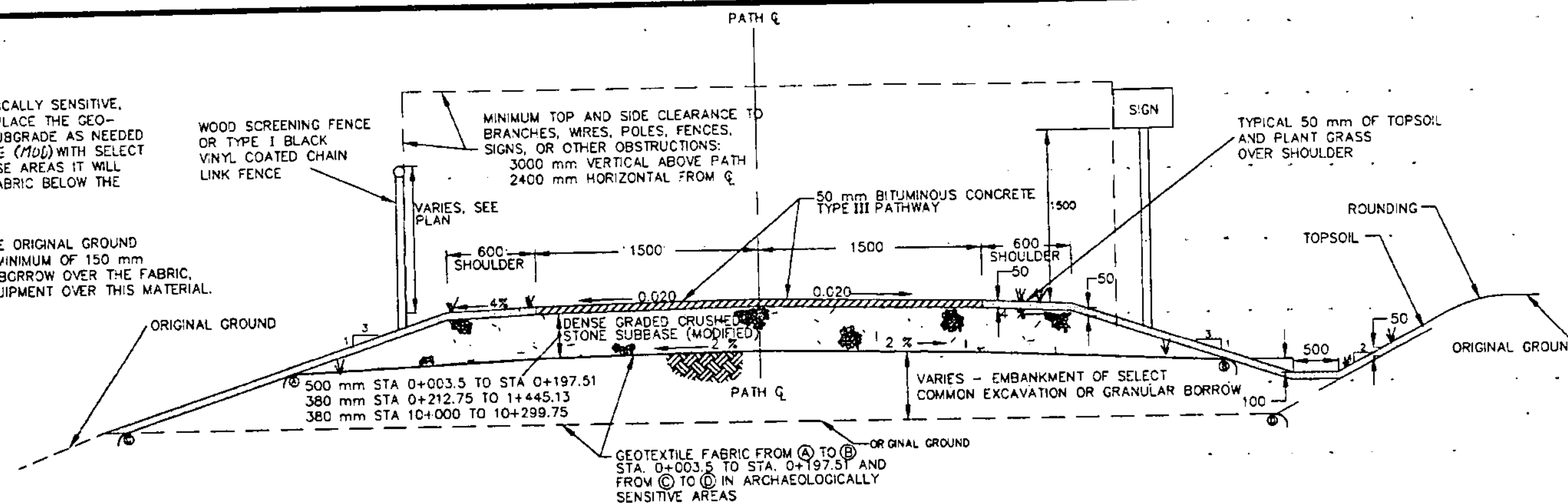
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____ DATE _____
DIVISION ADMINISTRATOR

PROJECT WILLISTON STP BIKE (9) N# 93-064

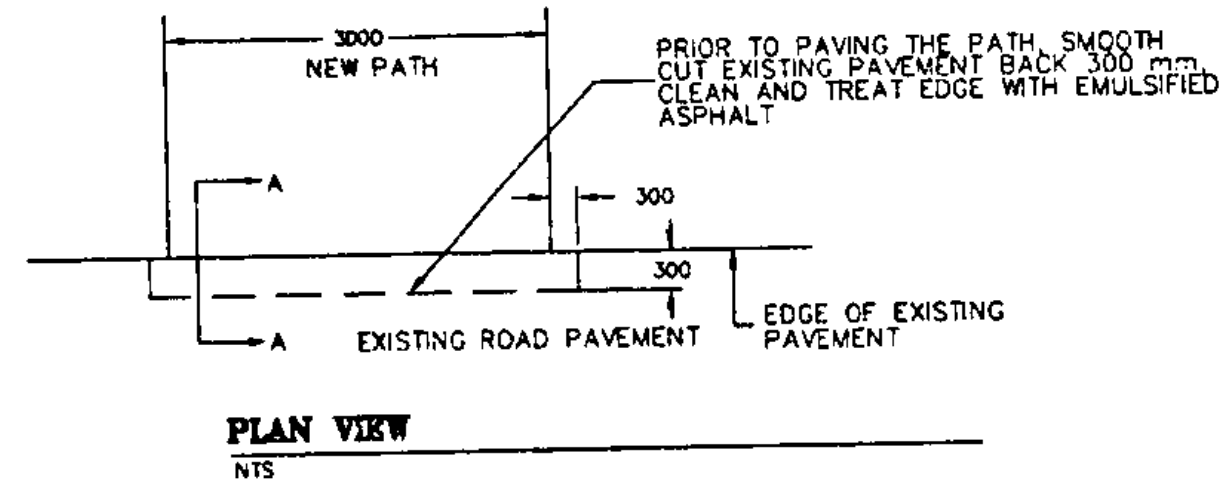
SHEET 1 OF 36 SHEETS

- NOTE: 1. ALL EMBANKMENT CUTS AND FILLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SHEET B-5.
2. IN THE FOLLOWING AREAS FOUND TO BE ARCHAEOLOGICALLY SENSITIVE, THE CONTRACTOR SHALL NOT REMOVE THE TOPSOIL. PLACE THE GEOTEXTILE FABRIC OVER THE TOPSOIL AND BUILD THE SUBGRADE AS NEEDED UP TO THE DENSE GRADED CRUSHED STONE SUBBASE (70D) WITH SELECT COMMON EXCAVATION OR GRANULAR BORROW. IN THESE AREAS IT WILL NOT BE NECESSARY TO PLACE ANOTHER LAYER OF FABRIC BELOW THE DENSE GRADED CRUSHED STONE.
- STATION 0+760 TO 0+880
STATION 1+060 TO 1+200
- THE CONTRACTOR SHALL NOT RUN EQUIPMENT ON THE ORIGINAL GROUND IN THE SENSITIVE AREAS. HE OR SHE WILL PLACE A MINIMUM OF 150 mm OF THE SELECT COMMON EXCAVATION OR GRANULAR BORROW OVER THE FABRIC. THEN MAY RUN A SMALL DOZER OR OTHER LIGHT EQUIPMENT OVER THIS MATERIAL.



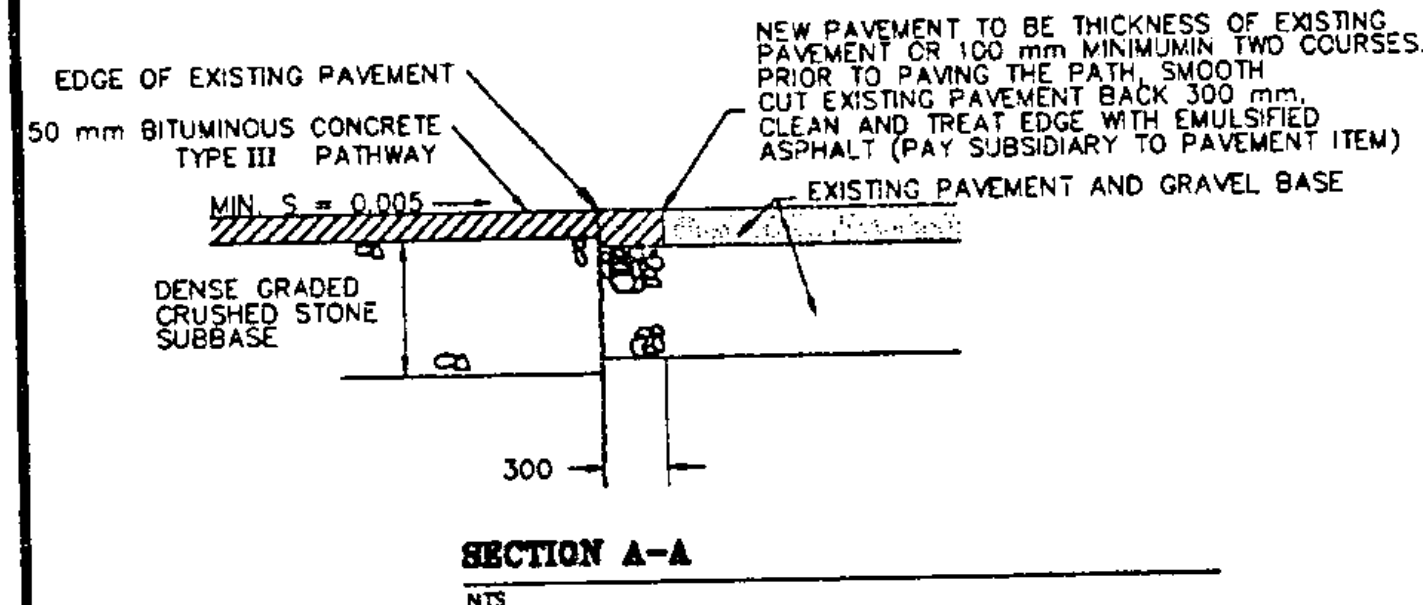
TRANSPORTATION PATH TYPICAL SECTION TYPE I

NTS



PLAN VIEW

NTS

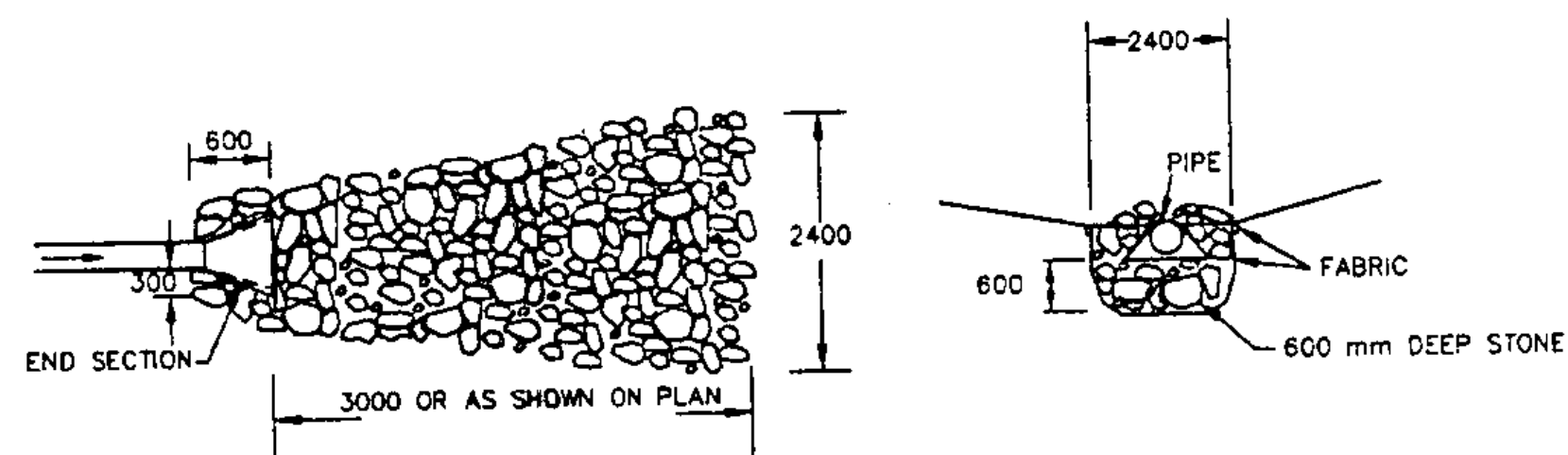


SECTION A-A

NTS

PATH RAMP AT INTERSECTION

NTS

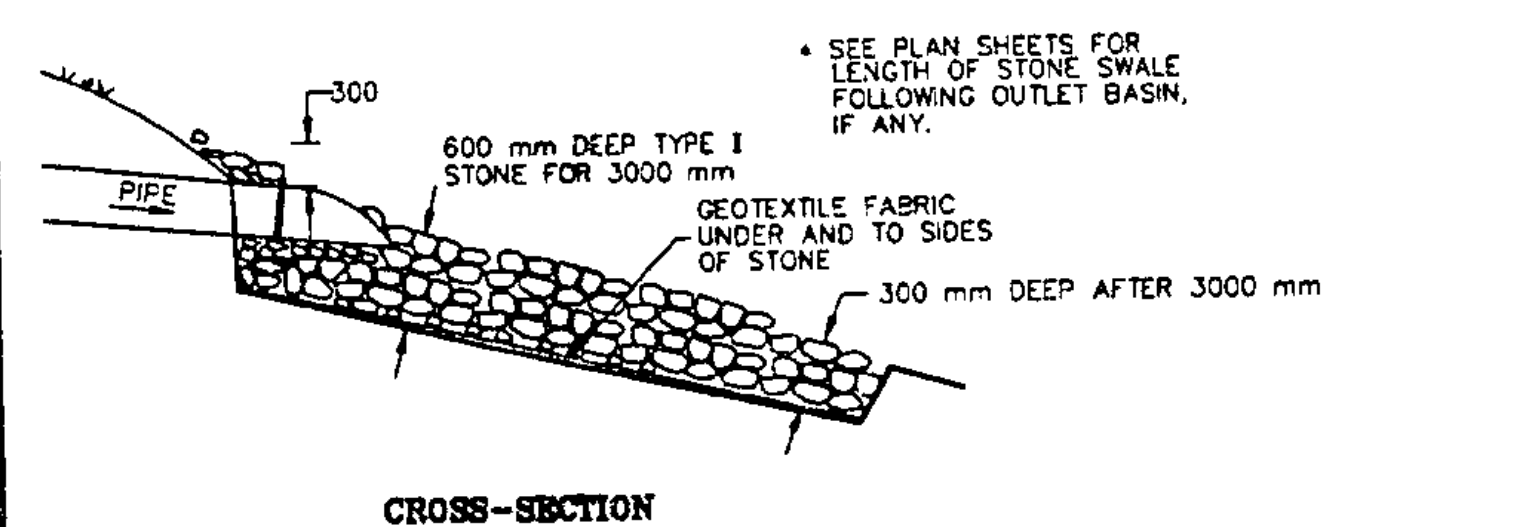


PLAN VIEW

NTS

SECTION VIEW

NTS

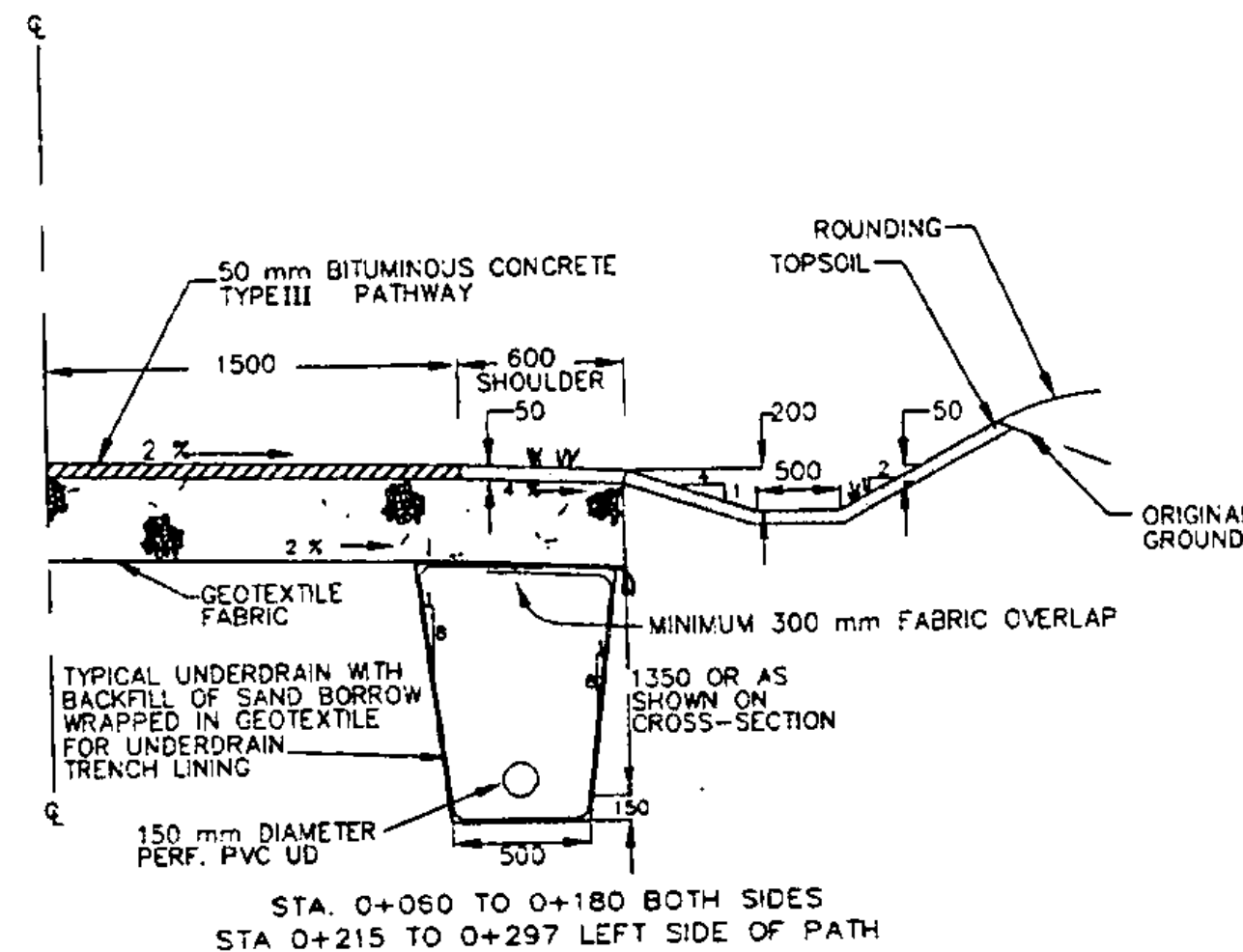


CROSS-SECTION

NTS

STONED STORM OUTFALL DETAIL

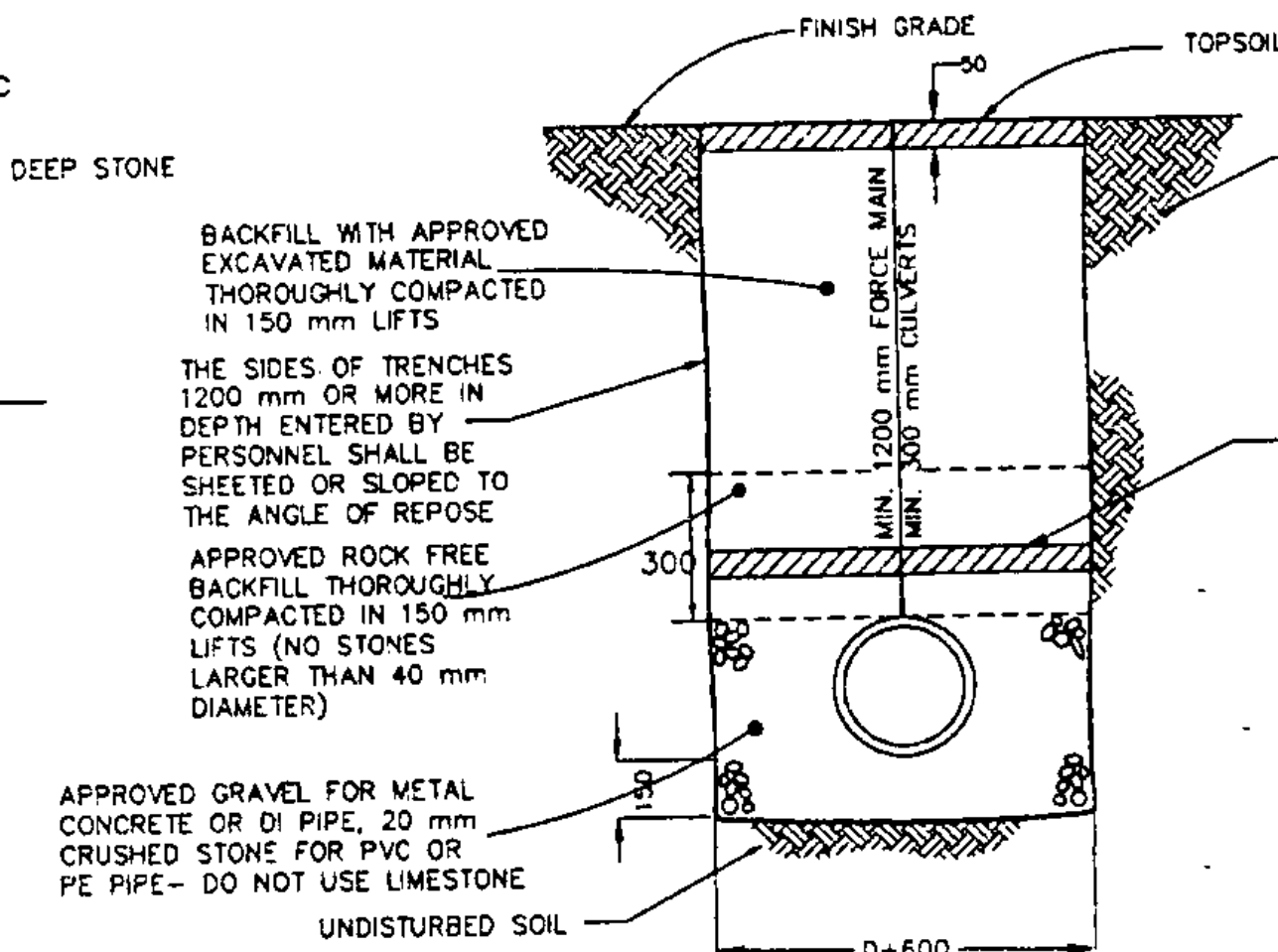
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TRANSPORTATION PATH TYPICAL SECTION WITH UNDERDRAIN

NTS

MATERIAL ITEM	DEPTH	PERMISSIBLE THICKNESS TOLERANCE
PAVEMENT	50 mm	± 5 mm
SUBBASE	500 mm	± 30 mm



TYPICAL STORM CULVERT AND FORCE MAIN TRENCH

NTS

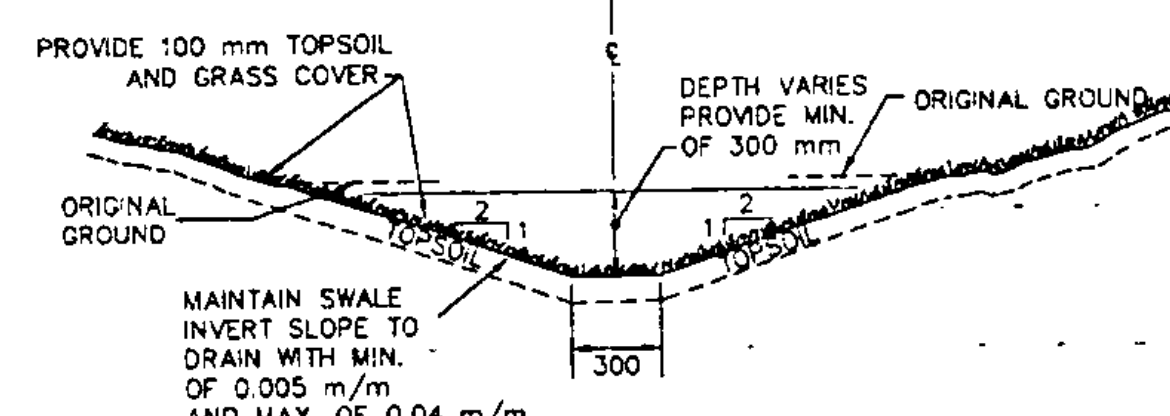
NOTE: PLACE 0.10mm POLYETHYLENE BETWEEN FITTING AND THRUST BLOCK

SOIL TYPE - CLAY/SILT		150mm	200mm	300mm
FITTING SIZE				
1 1/4 & 2 1/2		0.140	0.185	0.420
45'		0.185	0.370	0.790
90'		0.420	0.745	1.625
TEES OR END CAPS		0.280	0.510	1.160
VALVES		0.140	0.140	0.140

BEARING AREA - m²
BASED ON 0.345 MPa WORKING PRESSURE

THRUST BLOCK END AREA

NTS

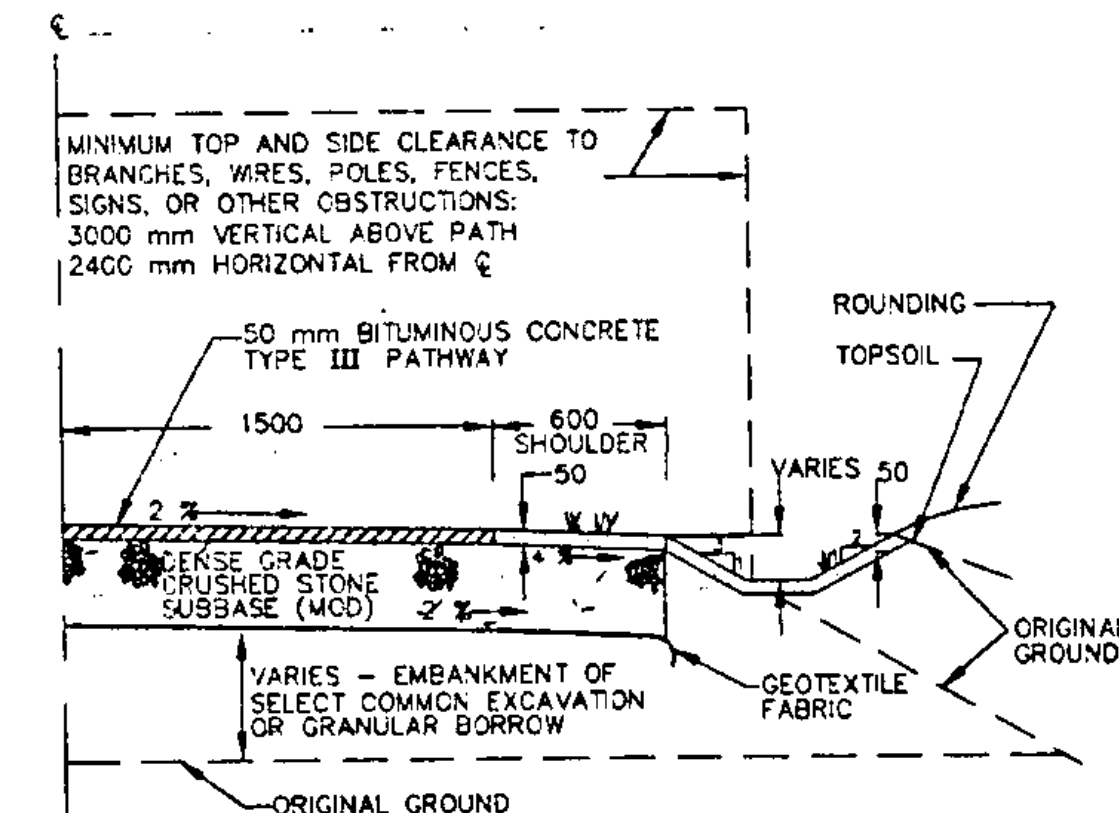


TYPICAL TYPE IA DRAINAGE SWALE

NTS

GENERAL CONSTRUCTION SPECIFICATIONS

- ALL WORK AND MATERIALS SHALL BE APPROVED BY AND IN ACCORDANCE WITH THE LATEST VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE SPECIFICATIONS, AND THESE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE DUST CREATED AS A RESULT OF CONSTRUCTION DOES NOT CREATE A NUISANCE OR A SAFETY HAZARD. WHERE AND WHEN DEEMED NECESSARY BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO WET SECTIONS OF THE CONSTRUCTION AREA WITH WATER.
- ANY SURFACES, LINES, OR STRUCTURES WHICH HAVE BEEN DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THE CONDITION AT LEAST EQUAL TO THAT IN WHICH THEY WERE FOUND IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS.
- THE FINISH GRADE SLOPES SHALL BE IMMEDIATELY GRADED AND MULCHED.
- THE EROSION CONTROL METHODS USED DURING CONSTRUCTION OF THE PATH SHALL PROCEED IN THE FOLLOWING SEQUENCE:
 - THE CONTRACTOR SHALL INSTALL AND MAINTAIN HAY BALE DAMS AS SHOWN ON THE PLANS AND AS ORDERED BY THE VERMONT AGENCY OF TRANSPORTATION. THE DAMS SHALL BE MAINTAINED AND REPAIRED AFTER EVERY RAINFALL UNTIL THE NEW IMPROVEMENTS ARE PAVED AND ALL DISTURBED AREAS HAVE BEEN GRASSED. THE REPAIR OF THE DAMS WILL INCLUDE REMOVING ANY SEDIMENTATION. THE SEDIMENT MAY BE PLACED AS FILL IN THE LOW AREAS.
 - THE TOPSOIL SHALL BE REMOVED FROM THE AREAS TO BE GRADED AND STOCKPILED. HAYBALES SHALL BE PLACED CONTINUOUSLY AROUND THE BOTTOM OF THE PILE.
 - THE CONTRACTOR SHALL ENCLOSE THE TRUNKS OF LARGE TREES NEAR THE NEW CONSTRUCTION WITH SNOW FENCING TO PROTECT THE TREES FROM INJURY BY EQUIPMENT.
 - THE CONTRACTOR WILL TOPSOIL, SEED, AND MULCH THE DISTURBED AREAS AS SOON AS POSSIBLE FOLLOWING COMPLETION OF ADJACENT CONSTRUCTION.
 - AT COMPLETION OF GRADING, THE SLOPES, DITCHES, AND ALL DISTURBED AREAS SHALL BE SMOOTH AND FREE OF POCKETS WITH SUFFICIENT SLOPE TO ENSURE DRAINAGE.



TRANSPORTATION PATH TYPICAL SECTION TYPE II

NTS

DATE	REVISIONS	BY
8-2-95	REVISED PER STATE REVIEW	ABR
5-2-95	REVISED PER STATE REVIEW	DLH
9-6-94	REVISED PER STATE REVIEW	ABR
5-11-94	REVISED PER STATE REVIEW	DLH
State 1-25-94 desc.	REVISED PER STATE REVIEW	by ABR

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRANSPORTATION PATH
WILLISTON STP BIKE (9)
IN
WILLISTON
VERMONT

LAOUREUX, STONE & O'LEARY
Consulting Engineers Inc.
14 Morse Drive
Essex Junction, VT 05452
(802) 878-4450
Engineers-Planners-Surveyors

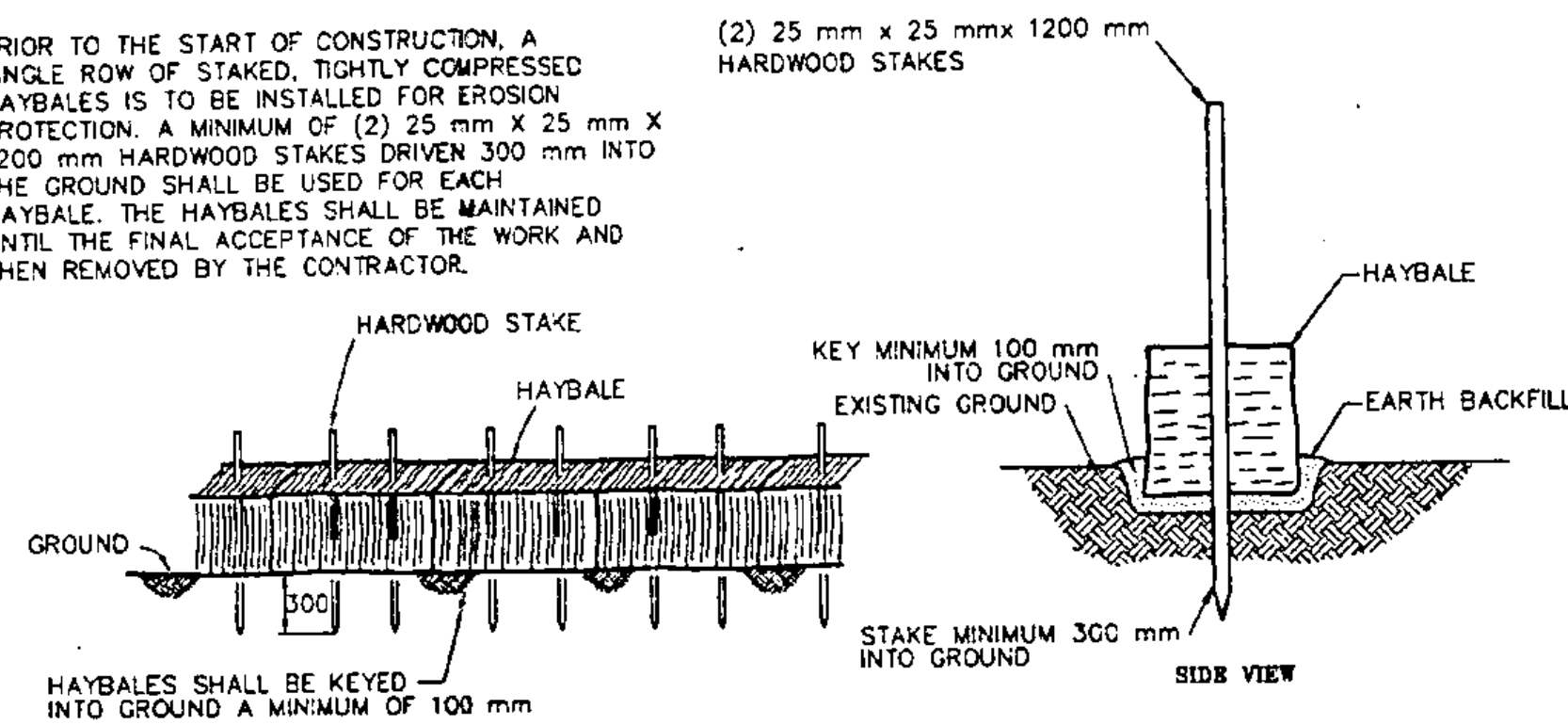
proj. no.
93-064
survey
BFD/HLS
design
LAL
drawn
PJE/DLH
checked
DLH/LAL
date
12-1-93
scale
NTS
sheet no.
2 OF 36

Metric

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

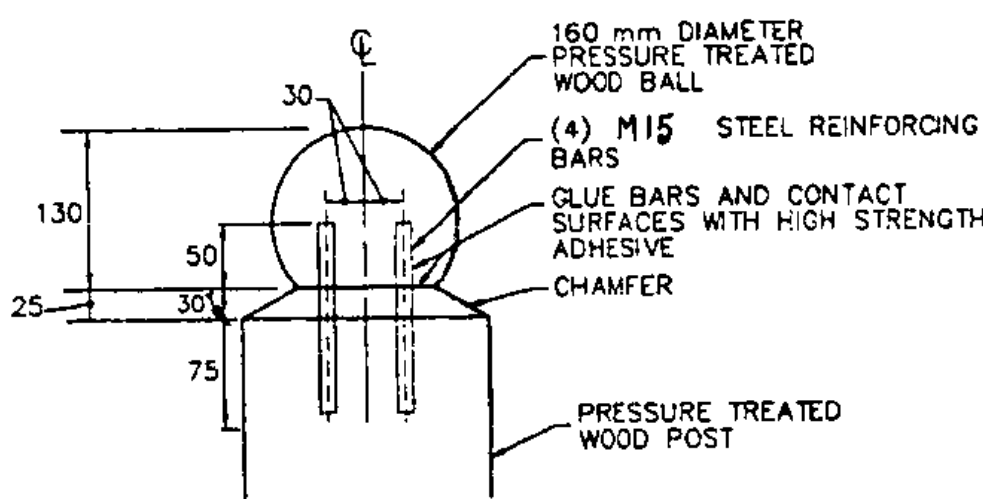


PRIOR TO THE START OF CONSTRUCTION, A SINGLE ROW OF STAKED, TIGHTLY COMPRESSED HAYBALES IS TO BE INSTALLED FOR EROSION PROTECTION. A MINIMUM OF (2) 25 mm X 1200 mm HARDWOOD STAKES DRIVEN 300 mm INTO THE GROUND SHALL BE USED FOR EACH HAYBALE. THE HAYBALES SHALL BE MAINTAINED UNTIL THE FINAL ACCEPTANCE OF THE WORK AND THEN REMOVED BY THE CONTRACTOR.



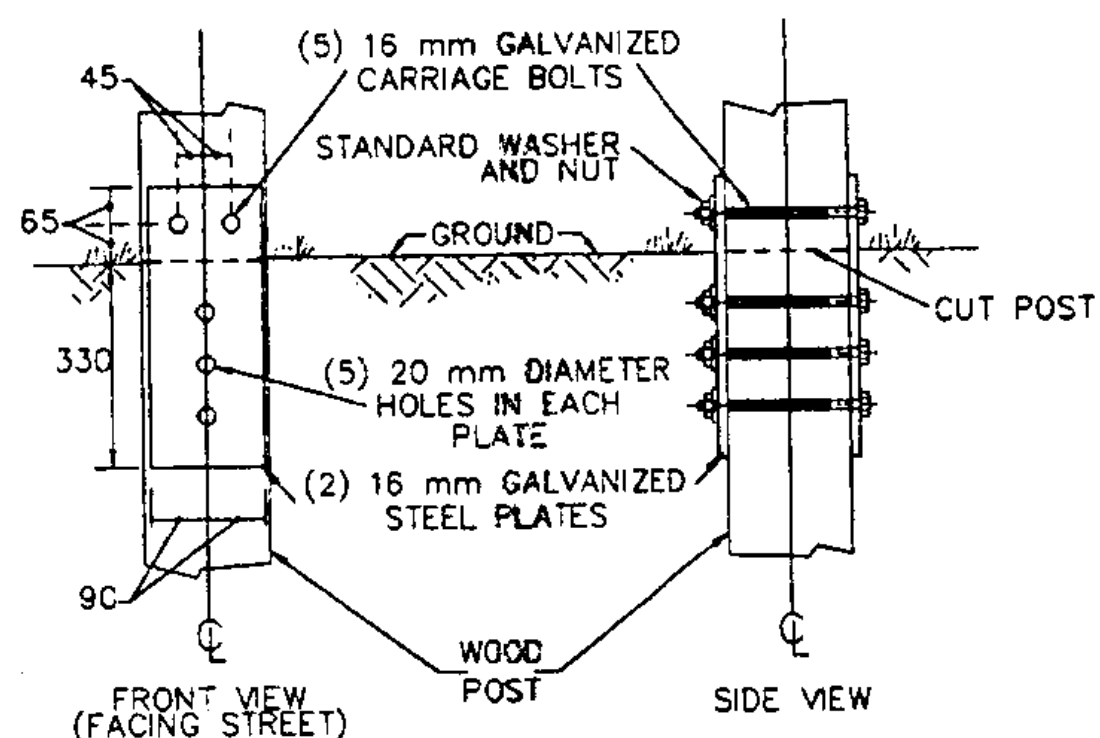
HAYBALE DAM EROSION CONTROL BARRIER

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WOOD BALL FASTENING DETAIL

NTS



BENCH SPECIFICATIONS

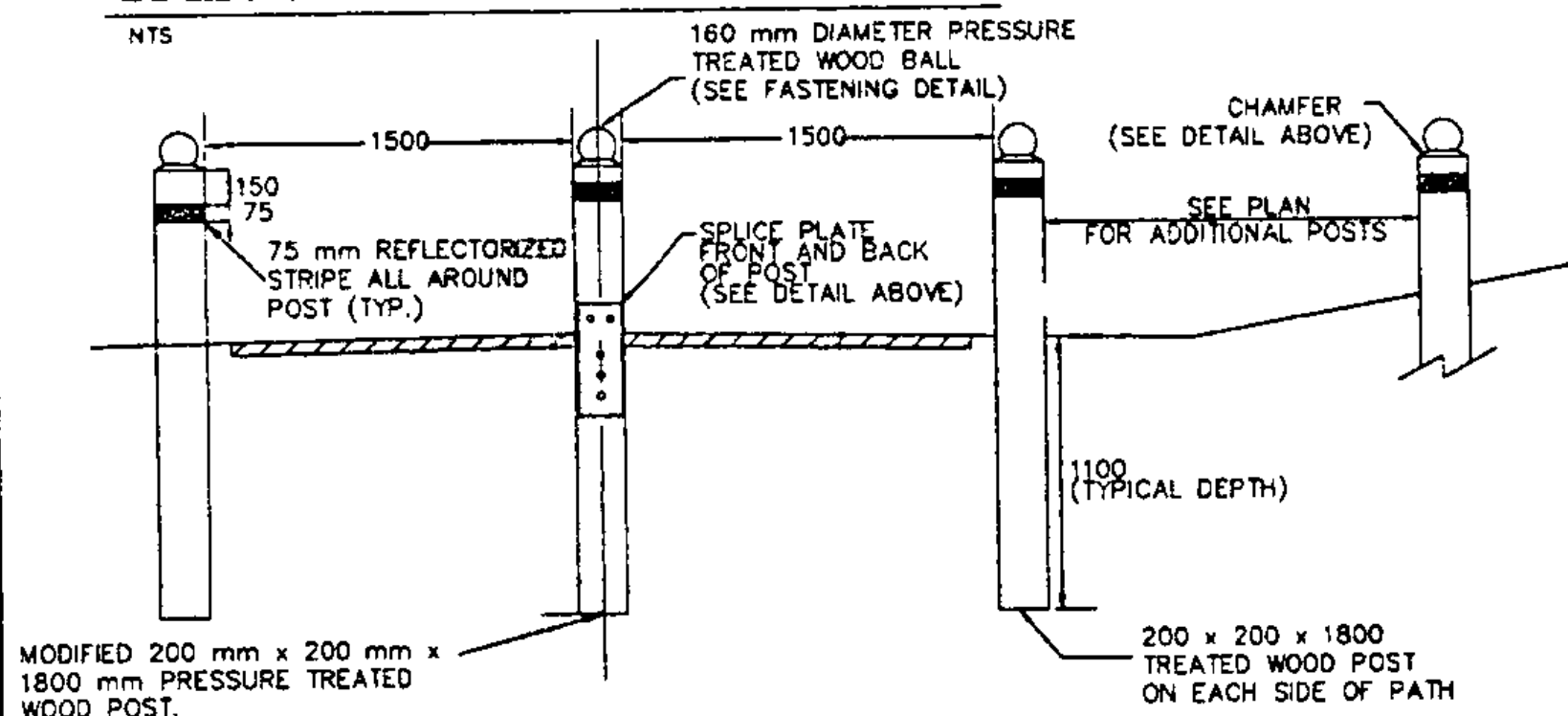
1. THE BENCH SHALL BE 1000 mm TO 2000 mm FROM EDGE OF PAVED PATH.
2. ALL LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 20% AND A MINIMUM OF 9.6 KG PER CUBIC METER OF PRESSURE TREATMENT IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO M 232.
3. ANY CUT PORTIONS OF LUMBER SHALL RECEIVE A FIELD APPLICATION OF THE TYPE OF PRESERVATIVE USED.
4. APPLY TWO COATS OF OIL BASE DECK STAIN WITH WATER REPELLENT AND ANTI-FUNGAL AGENTS TO LUMBER WHEN COMPLETED AND WOOD PRESERVATIVE HAS DRIED.
5. THE STAIN COLOR SHALL BE GREEN, GREY, OR BROWN EARTHEN TONE APPROVED BY THE ENGINEER.
6. THE NAILS AND BOLTS SHALL BE OF LOW TO MEDIUM CARBON STEEL GALVANIZED AND SHALL BE OF GOOD COMMERCIAL QUALITY. THE GALVANIZING SHALL BE IN ACCORDANCE WITH AASHTO M 232.
7. THE HARDWARE, PRESERVATIVE, AND STAIN SHALL BE SUBSIDIARY TO REST AREA BENCH ITEM.

WOOD BENCH DETAIL

NTS

SPLICE PLATE DETAIL

NTS



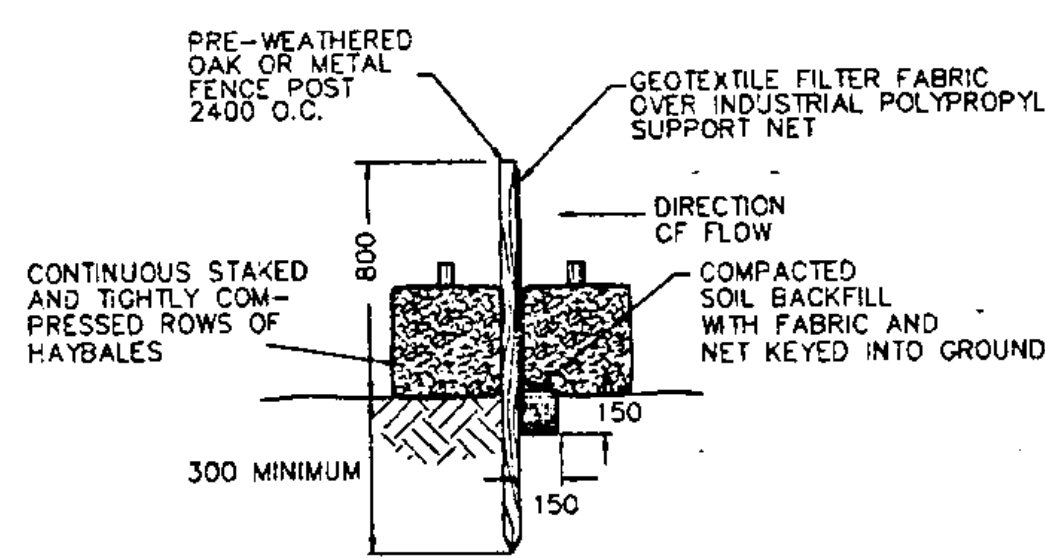
ADDITIONAL SPECIFICATIONS

1. ALL LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 20% AND A MINIMUM OF 9.6 KG PER CUBIC METER OF PRESSURE TREATMENT IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO M 232.
2. ANY CUT PORTIONS OF POSTS SHALL RECEIVE A FIELD APPLICATION OF THE TYPE OF PRESERVATIVE USED.
3. APPLY TWO COATS OF OIL BASE DECK STAIN WITH WATER REPELLENT AND ANTI-FUNGAL AGENTS TO POSTS WHEN COMPLETED AND WOOD PRESERVATIVE HAS DRIED.
4. POSTS AS A MINIMUM SHALL BE OUTSIDE THE CLEAR ZONE. EXACT LOCATION SHALL BE AS INDICATED ON THE PROJECT PLANS OR AS DETERMINED BY THE ENGINEER.
5. THE STAIN COLORS SHALL BE A BLACK BACKGROUND WITH REFLECTORIZED YELLOW DIAGONAL STRIPES APPLIED OVER THE BACKGROUND, AS AN ALTERNATIVE TO THE STRIPING AS STATED ABOVE. ALUMINUM PANELS MAY BE ATTACHED TO THE WOOD POSTS WITH THE SAME COLORS AND REFLECTIVITY.
6. THE HARDWARE, PRESERVATIVE AND STAIN ARE SUBSIDIARY TO THE GUIDE POST (MODIFIED) ITEM.

VEHICLE BARRIER POSTS

NTS

NOTE: TEMPORARY FENCE TO BE INSTALLED AND MAINTAINED BY THE CONTRACTOR TO CONTROL EROSION AS ORDERED BY THE ENGINEER OR SHOWN ON THE PLANS. USE ONLY MANUAL METHODS OF INSTALLATION AND CLEANING WITHIN WETLAND AND BUFFER ZONE.

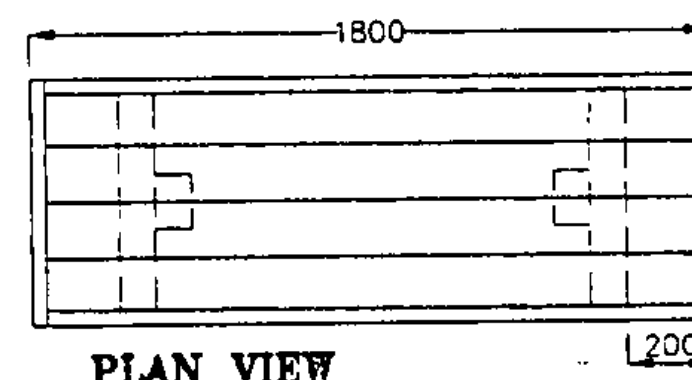


INSTALLATION DETAIL

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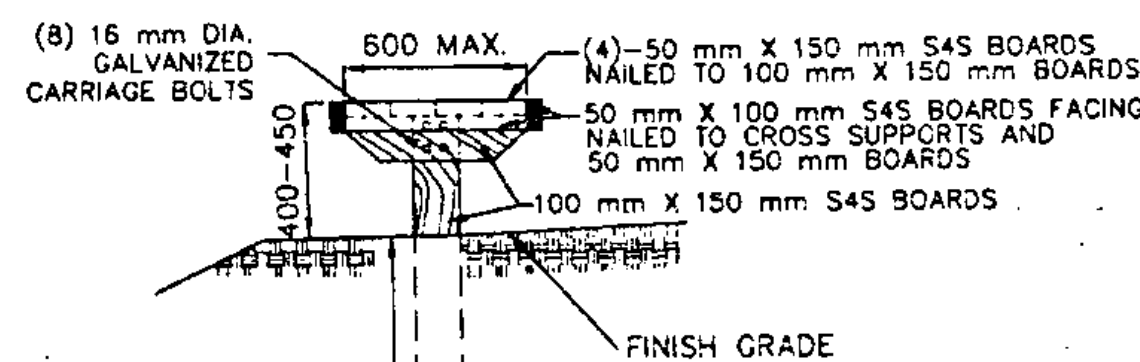
TEMPORARY EROSION CONTROL FENCE

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PLAN VIEW

NTS



SECTION VIEW

NTS

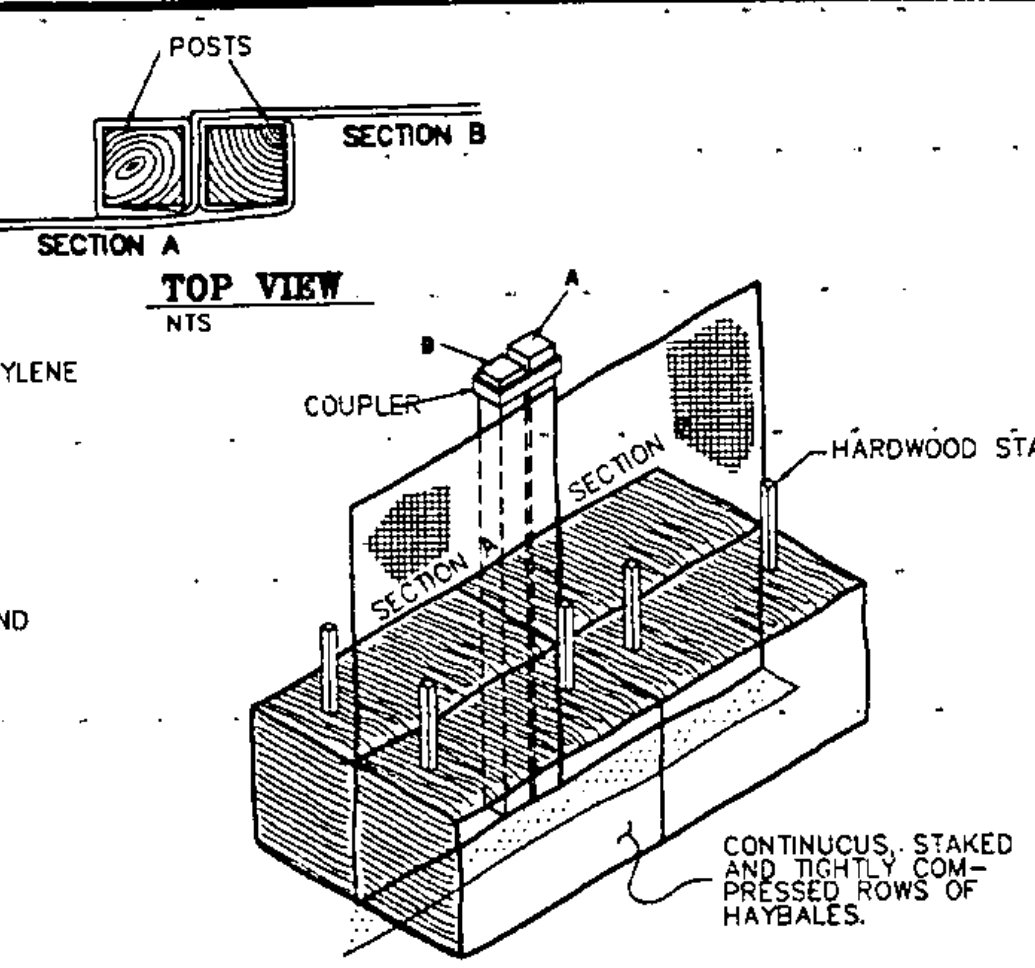
LANDSCAPING SPECIFICATIONS

ALL DISTURBED AREAS SHALL BE STABILIZED WITH SEEDING AND MULCHING PRIOR TO OCTOBER 1 OF EACH YEAR. ANY DISTURBED AREAS SHALL BE IMMEDIATELY SEEDED AND MULCHED WITHIN 15 DAYS. ANY WORK PERFORMED AFTER OCTOBER 1 OF EACH YEAR SHALL BE STABILIZED WITH MULCH OR NETTING SUFFICIENT TO PREVENT EROSION AND SHALL BE IMMEDIATELY SEEDED AND REMULCHED AS SOON AS WEATHER PERMITS IN THE SPRING. THESE AREAS SHALL RECEIVE A MINIMUM OF 50 mm OF TOPSOIL AND BE SEEDED, FERTILIZED, LIMED, AND MULCHED IN ACCORDANCE WITH THE FOLLOWING:

1. SEED MIXTURE IN ALL AREAS SHALL BE URBAN MIX CONFORMING TO THE TABLE SHOWN BELOW. FOR SEEDING BETWEEN SEPTEMBER 1 AND OCTOBER 1, WINTER RYE SHALL BE USED AT AN APPLICATION RATE OF 90 kg PER HECTARE.
2. FERTILIZER: FORMULA 10-20-10 TO BE USED WITH SEED, APPLIED AT THE RATE OF 560 kg PER HECTARE. HYDRO SEEDRES MAY USE 19-19-19 FORMULA.
3. THE LIMESTONE SHALL CONFORM TO ALL STATE AND FEDERAL REGULATIONS AND TO THE STANDARDS OF THE ASSOCIATION OF OPTICAL AGRICULTURAL CHEMISTS. THE LIMESTONE SHALL BE APPLIED AT A RATE OF 4500 kg PER HECTARE OR AS DIRECTED.
4. WITHIN 24 HOURS OF APPLICATION OF FERTILIZER, LIME, AND SEED, THE SURFACE SHALL BE MULCHED WITH A HAY MULCH. MULCH SHALL BE SPREAD UNIFORMLY OVER THE AREA AT A RATE OF 4500 kg PER HECTARE OR AS ORDERED BY THE ENGINEER.
5. ALL EXCAVATION, TOPSOIL, FERTILIZER, MULCH MATERIAL, WEED CONTROL FABRIC AND PLANTING MIX FOR INSTALLATION OF THE TREES, SHRUBS, GROUND COVERS, AND VINES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE SPECIFIC PLANTS.
6. ALL AREAS OF MASSSED AND GROUPED SHRUB PLANTINGS ARE TO BE MULCHED WITH SHREDDED BARK MULCH.

URBAN MIX GRASS SEED

% BY WEIGHT	kg LIVE SEED PER ha	TYPE OF SEED	% PURE	% GERMINATION
42.2	38	CREEPING RED FESCUE	97	80
10.0	9	PERENNIAL RYE GRASS	98	90
42.2	38	KENTUCKY BLUEGRASS	85	80
5.6	5	ANNUAL RYE GRASS	90	90
100	90 kg LIVE SEED / ha			



JOINING SECTIONS OF FENCE

NTS

WILDFLOWER SEEDING NOTES

1. PREPARATION
 - A. AN APPROVED HERBICIDE WILL BE APPLIED TWO WEEKS PRIOR TO TILLING (TO ALLOW FOR DIEBACK) BY A CERTIFIED APPLICATOR ACCORDING TO RECOMMENDATIONS ON MANUFACTURER'S LABEL.
 - B. MOW AREA BEFORE TILLING.
 - C. TILL OR DISC HARROW SITE TO A DEPTH OF 150 mm.
 - D. DO NOT ADD ANY SOIL AMENDMENTS OR FERTILIZER.
 - E. IF SOIL IS LOW IN ORGANIC MATERIAL (WITH LESS THAN 1% DECAYED ORGANIC MATERIAL), 75 mm OF TOPSOIL MAY BE ADDED. TOPSOIL SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE BID.
2. SEED
 - A. RATE: 0.45 kg PER 180 m².
 - B. METHOD: HAND BROADCAST OR MECHANICAL SPREADER. MIX SEED WITH CLEAN SAND AT A RATE OF ONE PART SEED TO TEN PARTS SAND. DRILL SEED INTO SOIL WITH GARDEN ROLLER. NO MULCH SHALL BE APPLIED TO WILDFLOWER SEEDING AREAS.
 - C. MIXTURE: SEE WILDFLOWER SEEDING FORMULA.
3. SCHEDULE:
 - A. HERBICIDE: SPRAY SITE ABOUT THE FIRST WEEK OF MAY.
 - B. TILLING: TILL OR DISC HARROW SITE ABOUT THE THIRD WEEK OF MAY.
 - C. SEEDING: SEED BEFORE THE END OF MAY, PREFERABLY SOON AFTER TILLING TO ASSURE GERMINATION AND MOISTURE.
4. THE COST OF ALL WILDFLOWER SEEDING INCLUDING HERBICIDES PREPARATION OF THE AREA, SEEDING AND ROLLING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "WILDFLOWER SEED".
5. WILDFLOWER LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. ACTUAL WILDFLOWER SEEDING AREAS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
6. AVOID STRAIGHT LINE PLANTING. THE EDGES OF THE WILDFLOWER SEEDING AREAS SHALL BE GENTLY CURVED.
7. WILDFLOWERS SHALL BE SEEDED AT THE FOLLOWING LOCATIONS ALONG THE PATH:

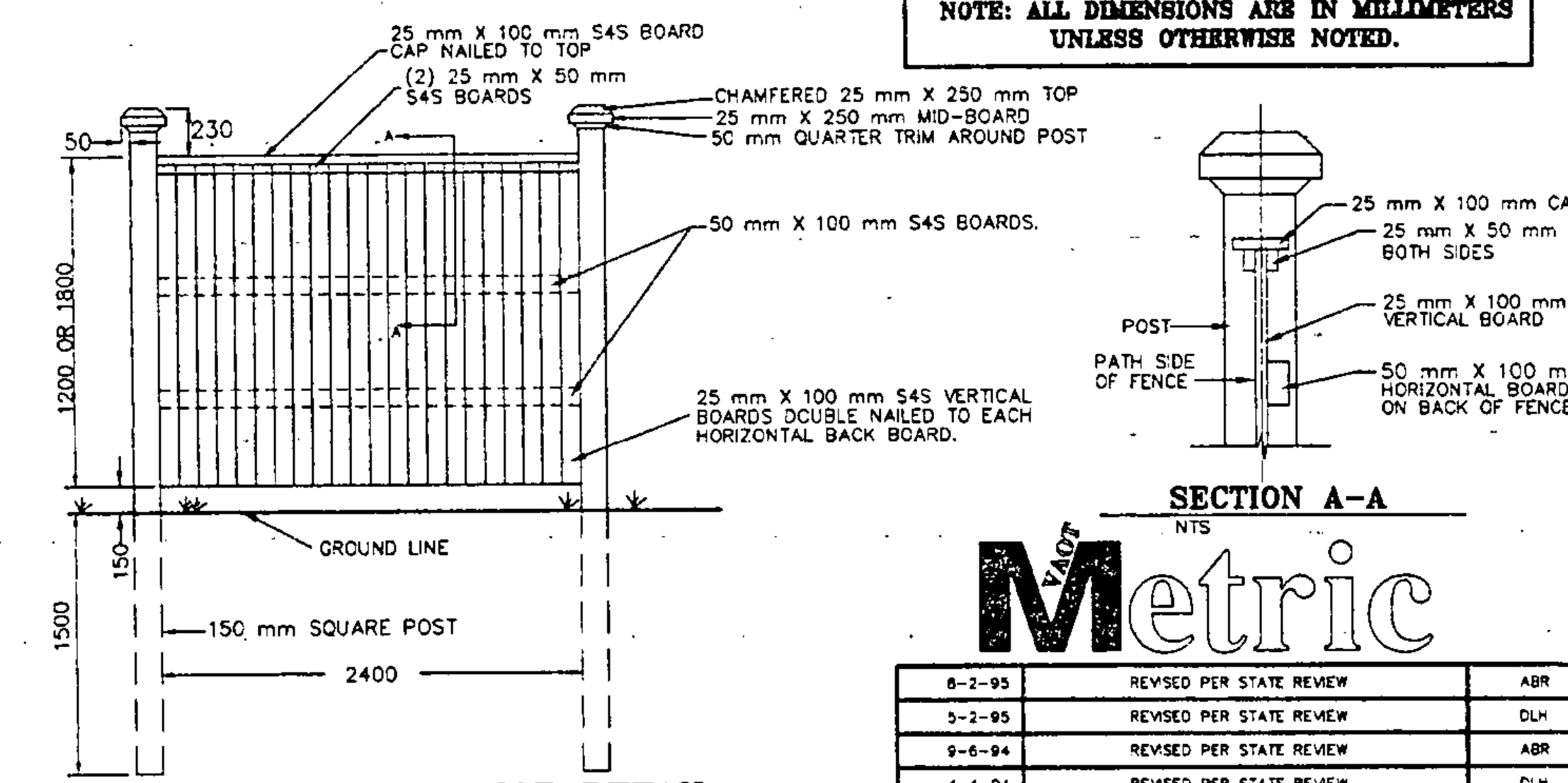
APPROXIMATE LOCATION	AREA
0+245 RT.	180 m ²
0+605 RT.	180 m ²

ACTUAL SEEDING LIMITS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

WILDFLOWER SEEDING FORMULA

BOTANICAL NAME	COMMON NAME	TYPE	COLOR	% OF MIX
CENTAUREA CYANUS-DWARF	CORNFLOWER	A	MIXED PINK, BLUE, WHITE	15
CLARKIA AMOENA	FAREWELL TO SPRING	A	PINK	15
COREOPSIS TINCTORIA	PLAINS COREOPSIS	A	YELLOW/RED	5
ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY	A	ORANGE	15
GYPSOPHILA ELEGANS	BABY'S BREATH	A	WHITE	15
LUPINUS SUCCULENTUS	ARROYO LUPINE	A	BLUE	5
NEMOPHILA MENZISII	BABY BLUE EYES	A	BLUE	10
PHACELIA CAMPANULARIA	DESERT BLUEBELL	A	BLUE	10
LOBULARIA MARITIMA	SWEET ALYSSUM	A	WHITE	5
DIORPHOTHECA SINUATA	AFRICAN DAISY	A	WHITE, ORANGE, YELLOW	5

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.



WOOD SCREENING FENCE DETAIL

NTS

FENCE SPECIFICATIONS

1. ALL LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 20% AND A MINIMUM OF 9.6 KG PER CUBIC METER OF PRESSURE TREATMENT IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO M 232.
2. ANY CUT PORTIONS OF FENCE OR POSTS SHALL RECEIVE A FIELD APPLICATION OF THE TYPE OF PRESERVATIVE USED.
3. APPLY TWO COATS OF OIL BASE DECK STAIN WITH WATER REPELLENT AND ANTI-FUNGAL AGENTS TO POSTS AND FENCE WHEN COMPLETED AND WOOD PRESERVATIVE HAS DRIED.
4. THE STAIN COLOR SHALL BE GREEN, GREY OR BROWN EARTHEN TONE APPROVED BY THE ENGINEER.
5. THE NAILS AND BOLTS SHALL BE OF LOW TO MEDIUM CARBON STEEL GALVANIZED AND SHALL BE OF GOOD COMMERCIAL QUALITY. THE GALVANIZING SHALL BE IN ACCORDANCE WITH AASHTO M 232.

Metric

DATE	REVISIONS	BY	ABR
8-2-95	REVISED PER STATE REVIEW		ABR
3-2-95	REVISED PER STATE REVIEW		DLH
9-6-94	REVISED PER STATE REVIEW		ABR
4-4-94	REVISED PER STATE REVIEW		DLH
date 1-25-94	desc. REVISED PER STATE REVIEW		BY ABR

STATE OF VERMONT
AGENCY OF TRANSPORTATION

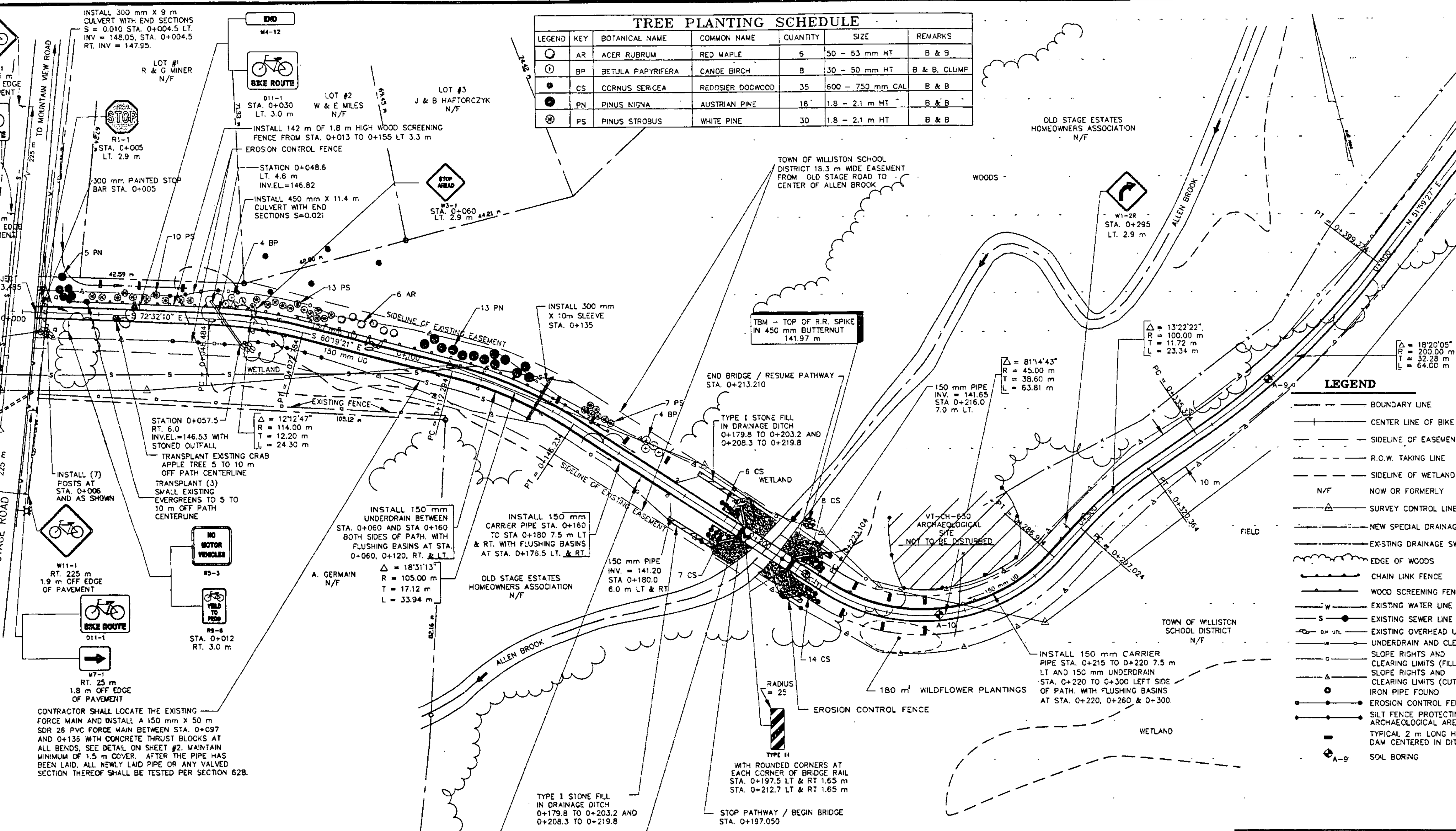
TRANSPORTATION PATH
WILLISTON STP BIKE (9)
IN
WILLISTON
VERMONT

LAMOUREUX, STONE & O'LEARY
Consulting Engineers Inc.
14 Morse Drive
Essex Junction, VT 05452
(802) 878-4450
Engineers-Planners-Surveyors

Proj. no. 93-064
Survey BFD/HLS
Design LAL
Draw PJE/CLH
Checked DLH/LAL
Date 12-1-93
Scale NTS
Sht. no. 3 OF 36

TREE PLANTING SCHEDULE

LEGEND KEY	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	REMARKS
AR	ACER RUBRUM	RED MAPLE	6	50 - 63 mm HT	B & B
BP	BETULA Papyrifera	CANOE BIRCH	8	30 - 50 mm HT	B & B, CLUMP
CS	CORNUS SERICEA	REDOSIER DOGWOOD	35	500 - 750 mm CAL	B & B
PN	PINUS NIGRA	AUSTRIAN PINE	18	1.8 - 2.1 m HT	B & B
PS	PINUS STROBUS	WHITE PINE	30	1.8 - 2.1 m HT	B & B

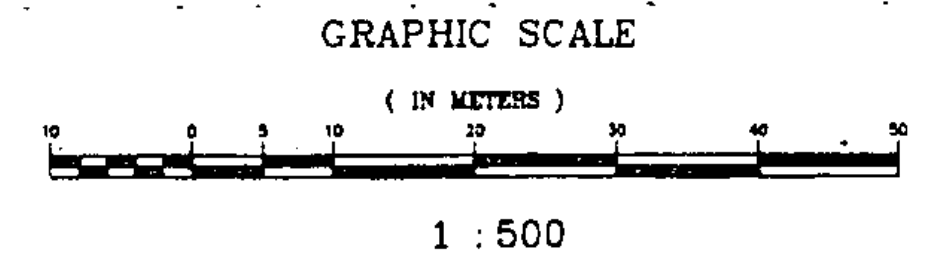


SOIL BORINGS

NUMBER	STATION	DEPTH	DESCRIPTION
A-9	0+358	0-0.5 0.5-0.8 0.8-1.0	D. BR. MOIST SANDY LOAM BR. MOIST MOTTLED SAND BR. WET MOTTLED SAND G.W. AT 0.8 m AT 1 MIN.
A-10	0+253	0-0.5 0.5-0.8 0.8-1.2	D. BR. MOIST SANDY LOAM BR. MOIST TO WET MOTTLED SANDY SILT BR. WET SANDY SILT WITH SMALL STONES G.W. AT 0.7 m AT 1 MIN.
A-11	0+217	0-0.5 0.5-1.2	D. BR. MOIST SANDY LOAM D. BR. WET MOTTLED SILTY SAND, REFUSAL AT 1.2 G.W. AT 0.7 m AT 1 MIN.

DATUM
 VERTICAL NAD 1983
 HORIZONTAL N/A

WETLAND NOTE:
 SEE WETLAND PLAN SHEET #22 FOR EROSION CONTROL SPECIFICATIONS AND DETAILS.

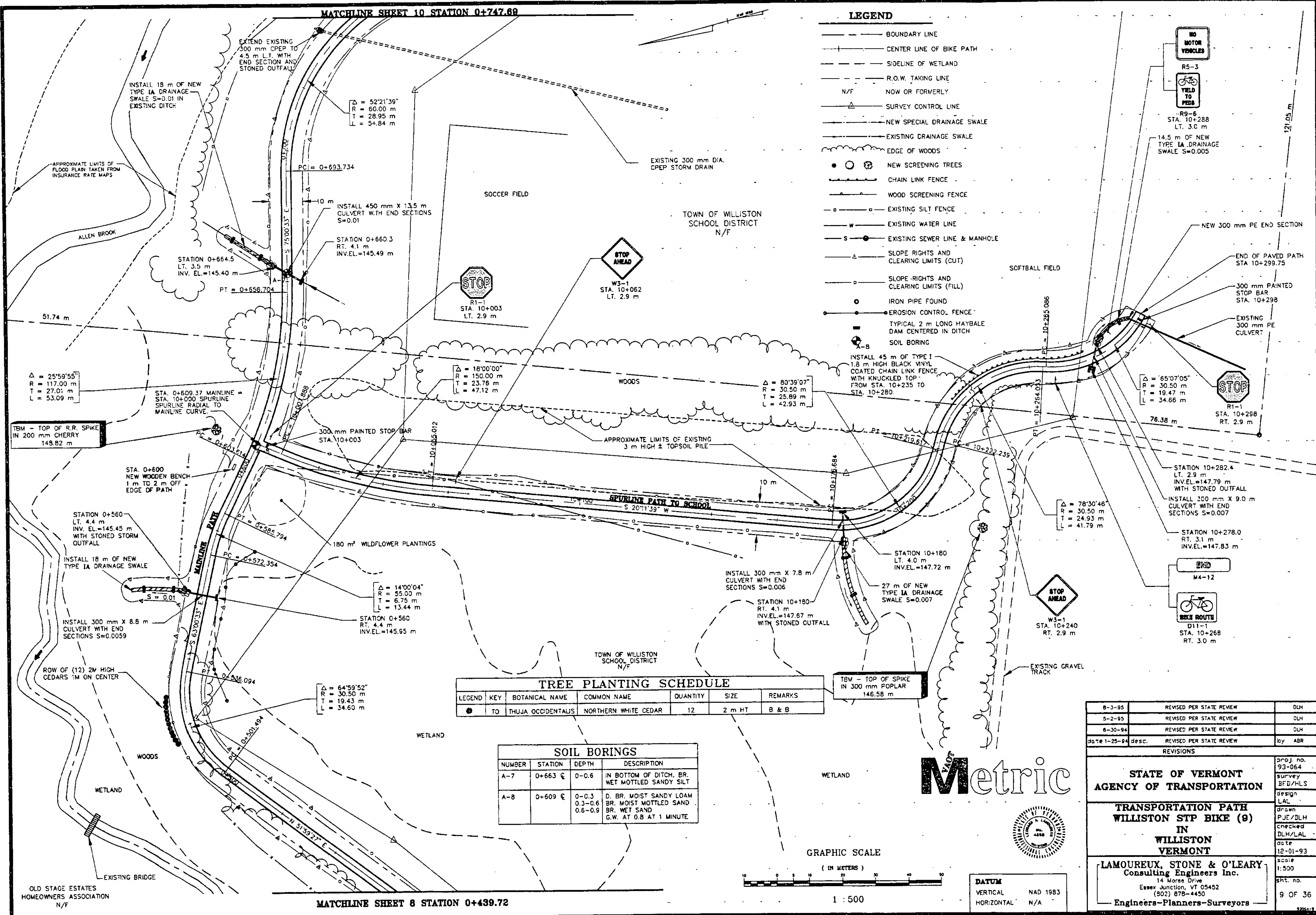


LEGEND

---	BOUNDARY LINE
---	CENTER LINE OF BIKE PATH
---	SIDELINE OF EASEMENT
---	R.O.W. TAKING LINE
---	SIDELINE OF WETLAND
N/F	NOW OR FORMERLY
---	SURVEY CONTROL LINE
---	NEW SPECIAL DRAINAGE SWALE
---	EXISTING DRAINAGE SWALE
---	EDGE OF WOODS
---	CHAIN LINK FENCE
---	WOOD SCREENING FENCE
---	EXISTING WATER LINE
---	EXISTING SEWER LINE & MANHOLE
---	EXISTING OVERHEAD UTILITY WIRES UNDERDRAIN AND CLEANOUT
---	SLOPE RIGHTS AND CLEARING LIMITS (FILL)
---	SLOPE RIGHTS AND CLEARING LIMITS (CUT)
---	IRON PIPE FOUND
---	EROSION CONTROL FENCE
---	SILT FENCE PROTECTING ARCHAEOLOGICAL AREA
---	TYPICAL 2 m LONG HAYBALE DAM CENTERED IN DITCH
A-9	SOIL BORING

8-3-95	REVISED PER STATE REVIEW	ABR	
5-2-95	REVISED PER STATE REVIEW	DLH	
9-8-94	REVISED PER STATE REVIEW	ABR	
6-30-94	REVISED PER STATE REVIEW	DLH	
1-25-94	REVISED PER STATE REVIEW	ABR	
date	desc.	REVISIONS	by
STATE OF VERMONT AGENCY OF TRANSPORTATION			
TRANSPORTATION PATH WILLISTON STP BIKE (9) IN WILLISTON VERMONT			
LAMOUREUX, STONE & O'LEARY Consulting Engineers Inc.			
14 Morse Drive Essex Junction, VT 05452 (802) 878-4450			
Engineers-Planners-Surveyors			





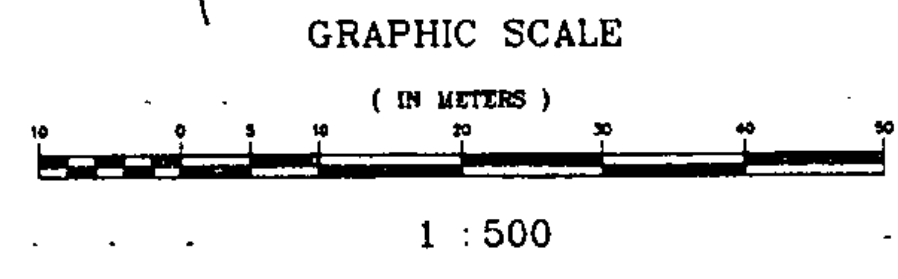
- LEGEND**
- BOUNDARY LINE
 - CENTER LINE OF BIKE PATH
 - SIDELINE OF WETLAND
 - R.O.W. TAKING LINE
 - N/F NOW OR FORMERLY
 - SURVEY CONTROL LINE
 - NEW SPECIAL DRAINAGE SWALE
 - EXISTING DRAINAGE SWALE
 - EDGE OF WOODS
 - ○ ○ ○ NEW SCREENING TREES
 - CHAIN LINK FENCE
 - WOOD SCREENING FENCE
 - EXISTING SILT FENCE
 - EXISTING WATER LINE
 - EXISTING SEWER LINE & MANHOLE
 - SLOPE RIGHTS AND CLEARING LIMITS (CUT)
 - SLOPE RIGHTS AND CLEARING LIMITS (FILL)
 - IRON PIPE FOUND
 - EROSION CONTROL FENCE
 - TYPICAL 2 m LONG HAYBALE DAM CENTERED IN DITCH
 - SOIL BORING

TREE PLANTING SCHEDULE

LEGEND	KEY	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	REMARKS
●	TO	THUJA OCCIDENTALIS	NORTHERN WHITE CEDAR	12	2 m HT	B & B

SOIL BORINGS

NUMBER	STATION	DEPTH	DESCRIPTION
A-7	0+663	0-0.6	IN BOTTOM OF DITCH. BR. WET MOTTLED SANDY SILT
A-8	0+609	0-0.3 0.3-0.6 0.6-0.9	D. BR. MOIST SANDY LOAM BR. MOIST MOTTLED SAND BR. WET SAND G.W. AT 0.8 AT 1 MINUTE



DATUM
VERTICAL NAD 1983
HORIZONTAL N/A

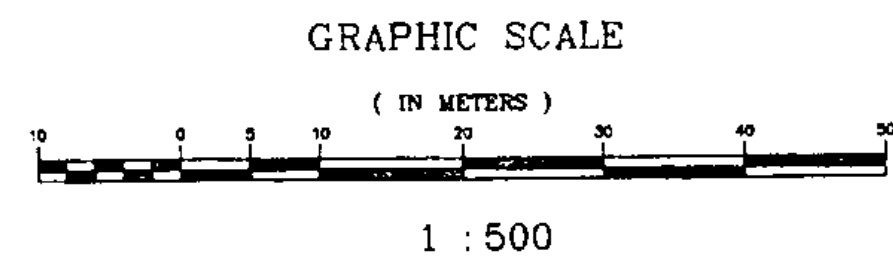
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5-2-95	REVISED PER STATE REVIEW	DLH
8-30-94	REVISED PER STATE REVIEW	DLH
date 1-25-94	desc. REVISED PER STATE REVIEW	by ABR
REVISIONS		
STATE OF VERMONT AGENCY OF TRANSPORTATION		
TRANSPORTATION PATH WILLISTON STP BIKE (9) IN WILLISTON VERMONT		
LAMOUREUX, STONE & O'LEARY Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450 Engineers-Planners-Surveyors		
proj. no. 93-064	survey BFB/HLS	design LAL
drawn PJE/DLH	checked DLH/LAL	date 12-01-93
scale 1:500	sheet no. 9 OF 36	

Metric

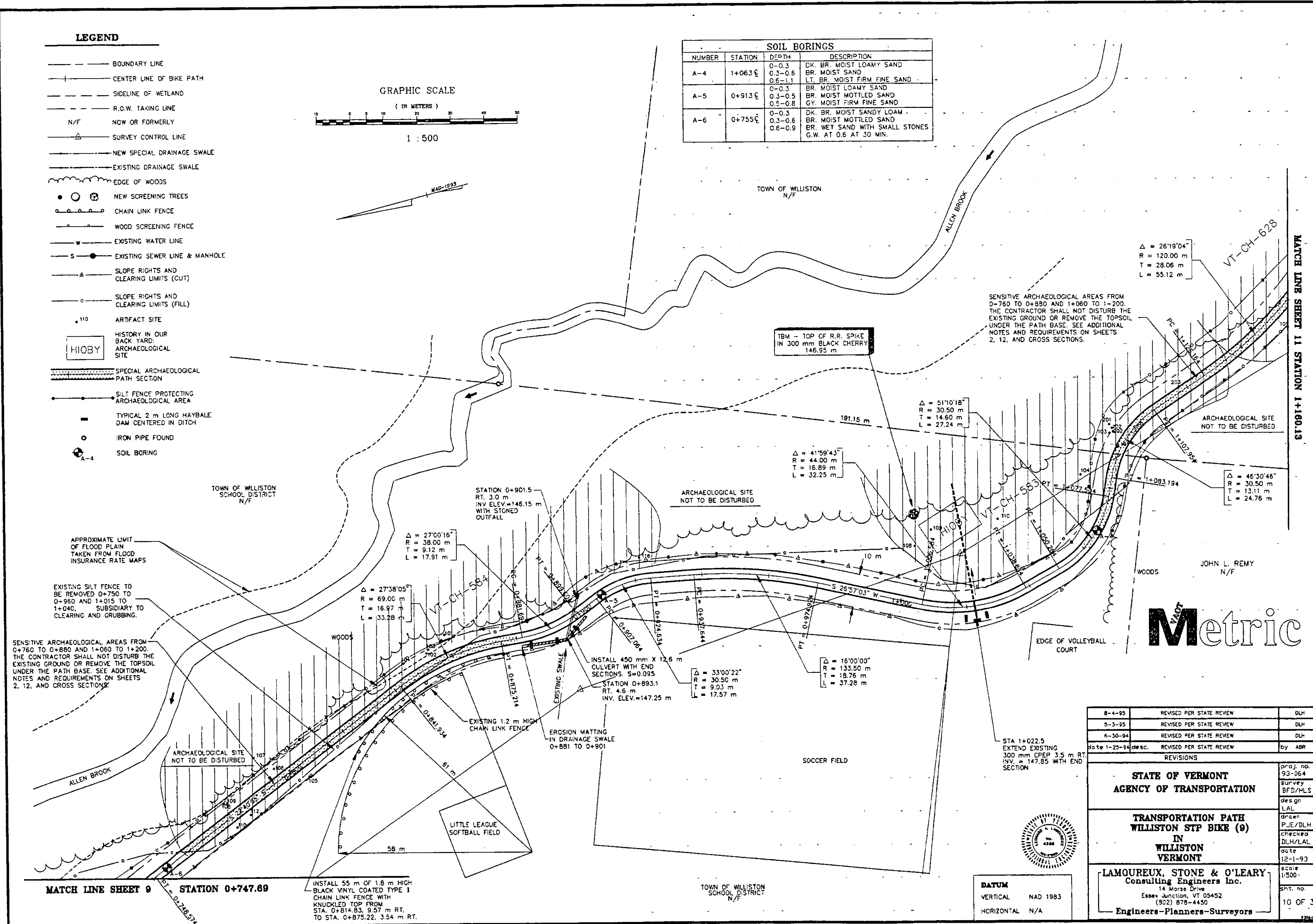


LEGEND

- BOUNDARY LINE
- CENTER LINE OF BIKE PATH
- SIDELINE OF WETLAND
- R.O.W. TAKING LINE
- N/F NOW OR FORMERLY
- △ SURVEY CONTROL LINE
- NEW SPECIAL DRAINAGE SWALE
- EXISTING DRAINAGE SWALE
- EDGE OF WOODS
- ○ ○ NEW SCREENING TREES
- CHAIN LINK FENCE
- WOOD SCREENING FENCE
- EXISTING WATER LINE
- EXISTING SEWER LINE & MANHOLE
- SLOPE RIGHTS AND CLEARING LIMITS (CUT)
- SLOPE RIGHTS AND CLEARING LIMITS (FILL)
- 110 ARTIFACT SITE
- HIOPY** HISTORY IN OUR BACK YARD: ARCHAEOLOGICAL SITE
- SPECIAL ARCHAEOLOGICAL PATH SECTION
- SILT FENCE PROTECTING ARCHAEOLOGICAL AREA
- TYPICAL 2 m LONG HAYBALE DAM CENTERED IN DITCH
- IRON PIPE FOUND
- A-4 SOIL BORING



SOIL BORINGS			DESCRIPTION
NUMBER	STATION	DEPTH	
A-4	1+063 E	0-0.3	DK. BR. MOIST LOAMY SAND
		0.3-0.6	BR. MOIST SAND
		0.6-1.1	LT. BR. MOIST FIRM FINE SAND
A-5	0+913 E	0-0.3	BR. MOIST LOAMY SAND
		0.3-0.5	BR. MOIST MOTTLED SAND
		0.5-0.8	GY. MOIST FIRM FINE SAND
A-6	0+755 E	0-0.3	DK. BR. MOIST SANDY LOAM
		0.3-0.6	BR. MOIST MOTTLED SAND
		0.6-0.9	BR. WET SAND WITH SMALL STONES G.W. AT 0.6 AT 30 MIN.



Metric

8-4-95	REVISED PER STATE REVIEW	DLH
5-3-95	REVISED PER STATE REVIEW	DLH
6-30-94	REVISED PER STATE REVIEW	DLH
DATE 1-25-94 desc.	REVISED PER STATE REVIEW	by ABR
REVISIONS		
STATE OF VERMONT AGENCY OF TRANSPORTATION		proj. no. 93-064
TRANSPORTATION PATH WILLISTON STP BIKE (9) IN WILLISTON VERMONT		Survey BFD/HLS des gn LAL
LAMOUREUX, STONE & O'LEARY Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (902) 878-4450		Drawn PJE/DLH Checked DLH/LAL Date 12-1-93 Scale 1:500
Engineers-Planners-Surveyors		SPT. NO. 10 OF 36

DATUM
VERTICAL NAD 1983
HORIZONTAL N/A

MATCH LINE SHEET 9 STATION 0+747.89

INSTALL 55 m OF 1.8 m HIGH BLACK VINYL COATED TYPE I CHAIN LINK FENCE WITH KNUCKLED TOP FROM STA. 0+814.83, 9.57 m RT. TO STA. 0+875.22, 3.54 m RT.



MATCH LINE SHEET 10 STATION 1+160.13

LEGEND

- BOUNDARY LINE
- CENTER LINE OF BIKE PATH
- SIDELINE OF WETLAND
- N/F NOW OR FORMERLY
- SURVEY CONTROL LINE
- NEW SPECIAL DRAINAGE SWALE
- EXISTING DRAINAGE SWALE
- EDGE OF WOODS
- NEW SCREENING TREES
- CHAIN LINK FENCE
- WOOD SCREENING FENCE
- EXISTING WATER LINE
- S --- EXISTING SEWER LINE & MANHOLE
- EXISTING OVERHEAD UTILITY WIRES
- SLOPE RIGHTS AND CLEARING LIMITS (CUT)
- SLOPE RIGHTS AND CLEARING LIMITS (FILL)
- 110 ARTIFACT SITE
- HIOBY HISTORY IN OUR BACK YARD: ARCHAEOLOGICAL SITE
- SPECIAL ARCHAEOLOGICAL PATH SECTION
- R.O.W. TAKING LINE
- IRON PIPE FOUND
- TYPICAL 2 m LONG HAYBALE DAM CENTERED IN DITCH
- EROSION CONTROL FENCE
- SILT FENCE PROTECTING ARCHAEOLOGICAL AREA
- ⊕ SOIL BORING

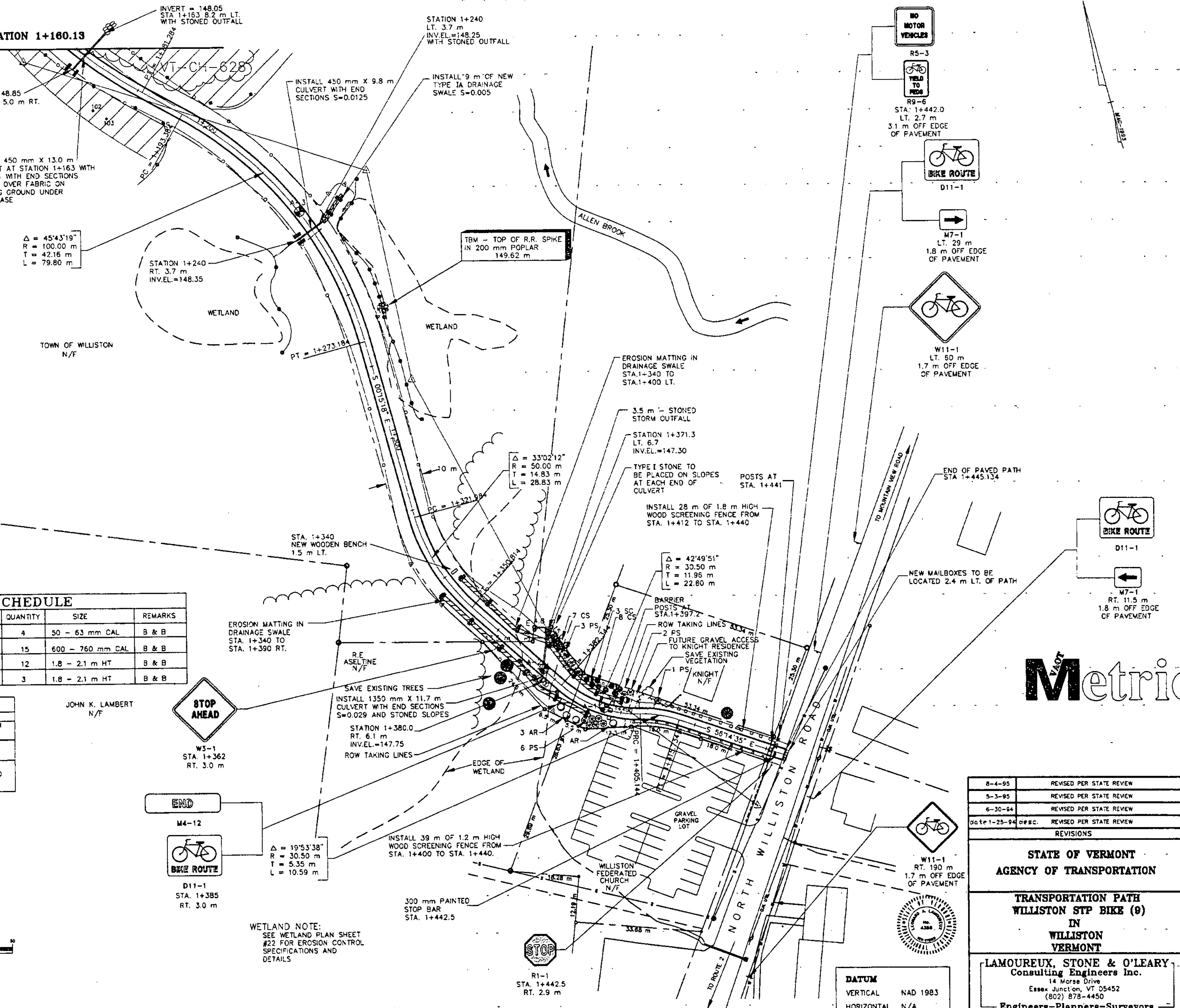
TREE PLANTING SCHEDULE					
LEGEND KEY	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	REMARKS
AR	ACER RUBRUM	RED MAPLE	4	50 - 63 mm CAL	B & B
CS	CORNUS SERICEA	REDOSIER DOGWOOD	15	600 - 760 mm CAL	B & B
PS	PINUS STROBUS	WHITE PINE	12	1.8 - 2.1 m HT	B & B
SC	SAMBUCUS CANADENSIS	ELDERBERRY	3	1.8 - 2.1 m HT	B & B

SOIL BORINGS			
NUMBER	STATION	DEPTH	DESCRIPTION
A-1	1+383	0-0.8	GY. BR. MOTTLED MOIST FIRM LOAMY SAND FILL
A-2	1+375	0-0.6 0.6-1.1	MUCK GY. FIRM CLAY
A-3	1+233	0-0.3 0.3-0.6	BR. MOIST LOAMY SAND BR. WET MOTTLED FINE SAND WITH SMALL STONES

GRAPHIC SCALE



1 : 500



STOP AHEAD
W5-1
STA. 1+362
RT. 3.0 m

END
M4-12

BIKE ROUTE
D11-1
STA. 1+385
RT. 3.0 m

NO MOTOR VEHICLES
RS-3

YIELD TO PEDESTRIAN
RS-6

BIKE ROUTE
D11-1

BIKE ROUTE
D11-1

BIKE ROUTE
D11-1

BIKE ROUTE
D11-1

BIKE ROUTE
D11-1

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D11-1

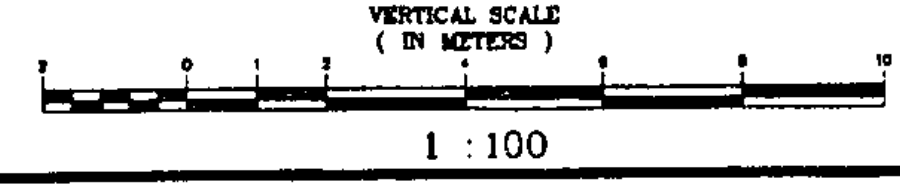
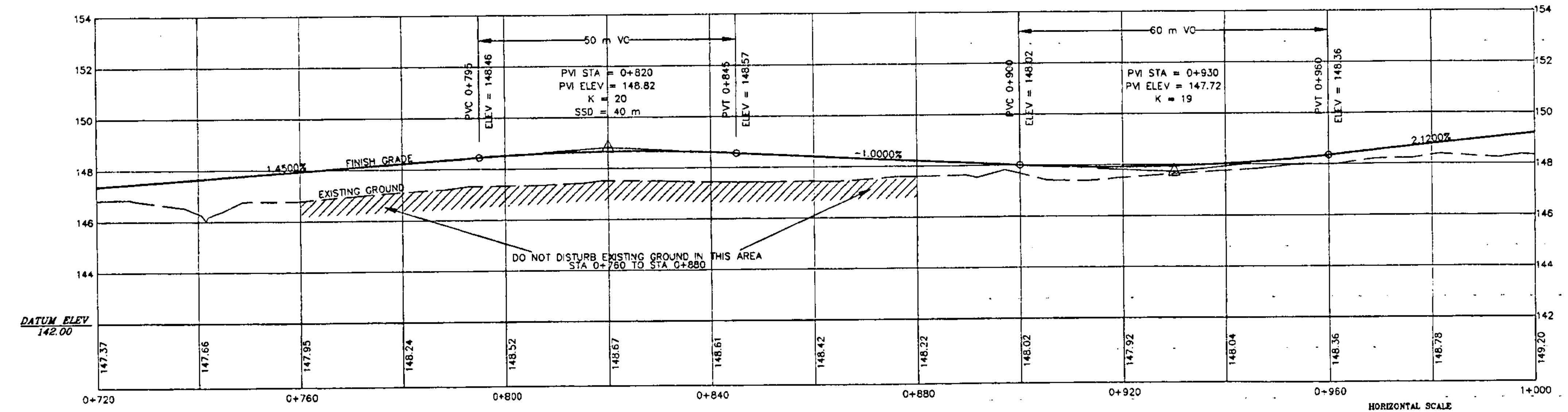
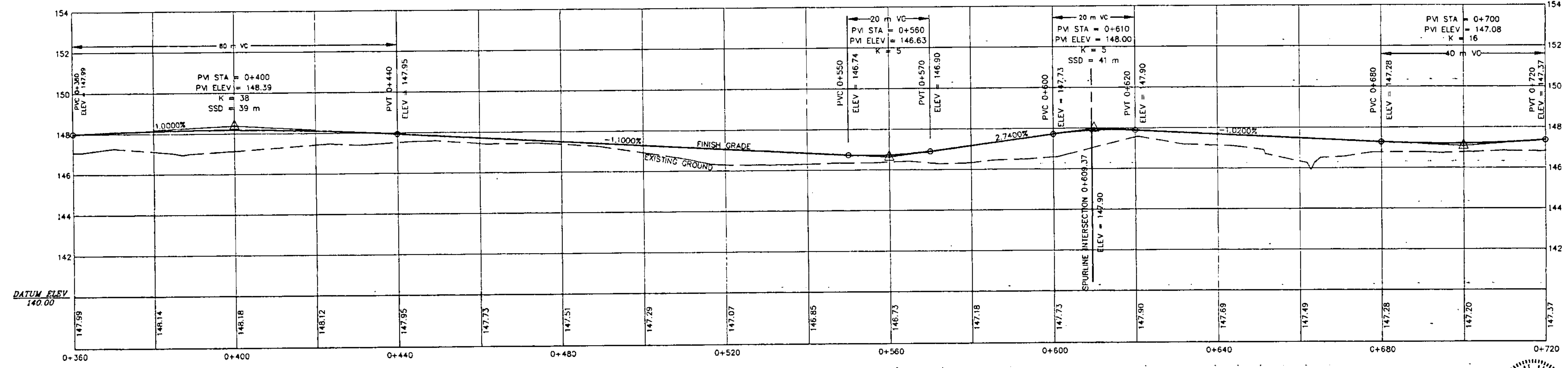
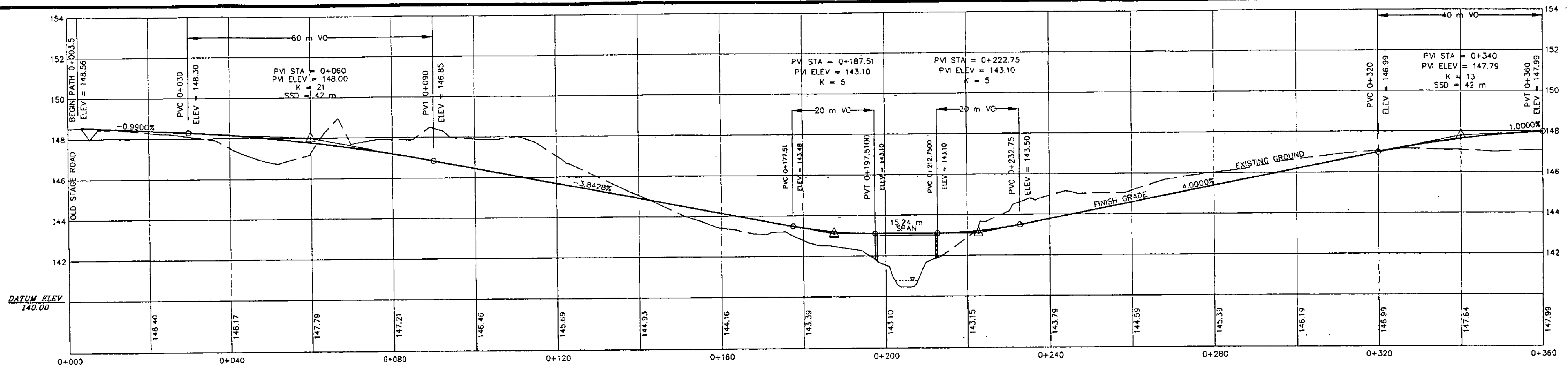
Metric

REVISIONS	DATE	BY
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5-3-95	REVISED PER STATE REVIEW	DLH
6-30-94	REVISED PER STATE REVIEW	DLH
DATE 1-25-94	DESC. REVISED PER STATE REVIEW	BY ABR

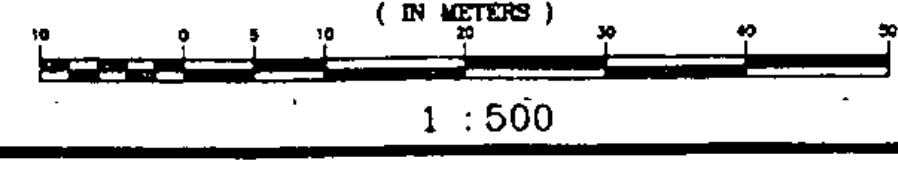
STATE OF VERMONT AGENCY OF TRANSPORTATION		proj. no. 93-064
TRANSPORTATION PATH WILLISTON STP BIKE (9) IN WILLISTON VERMONT		survey BFD/HLS
LAMOUREUX, STONE & O'LEARY Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450		design LAL
Engineers-Planners-Surveyors		drawn PJE/DLH
		checked DLH/LAL
		date 12-01-93
		scale 1:500
		sht. no. 11 OF 36

WETLAND NOTE:
SEE WETLAND PLAN SHEET #22 FOR EROSION CONTROL SPECIFICATIONS AND DETAILS

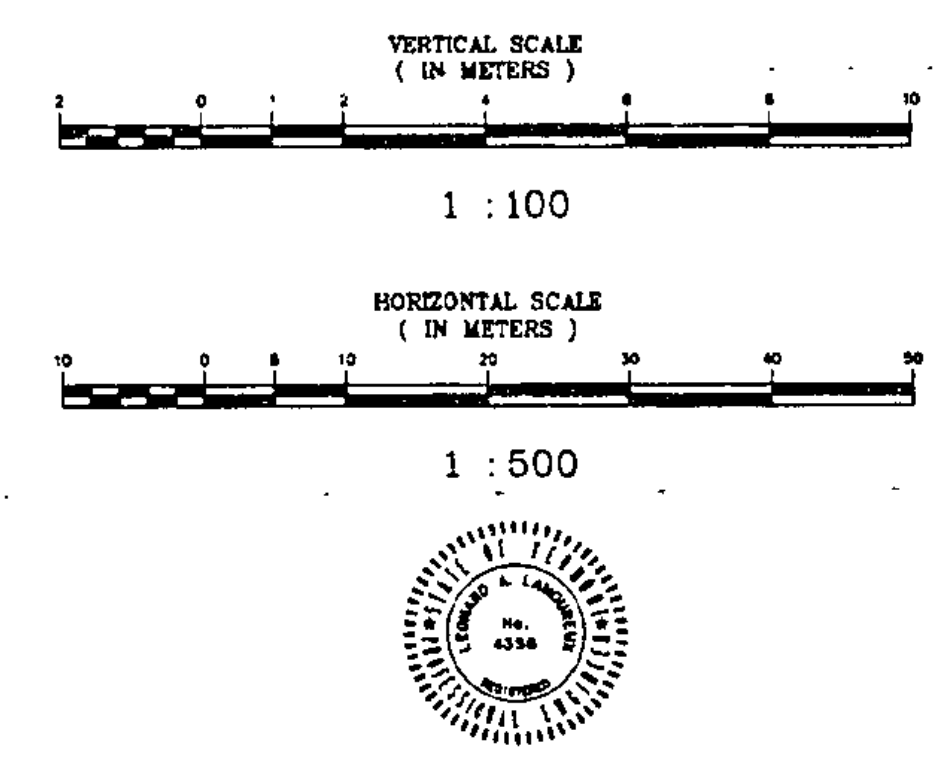
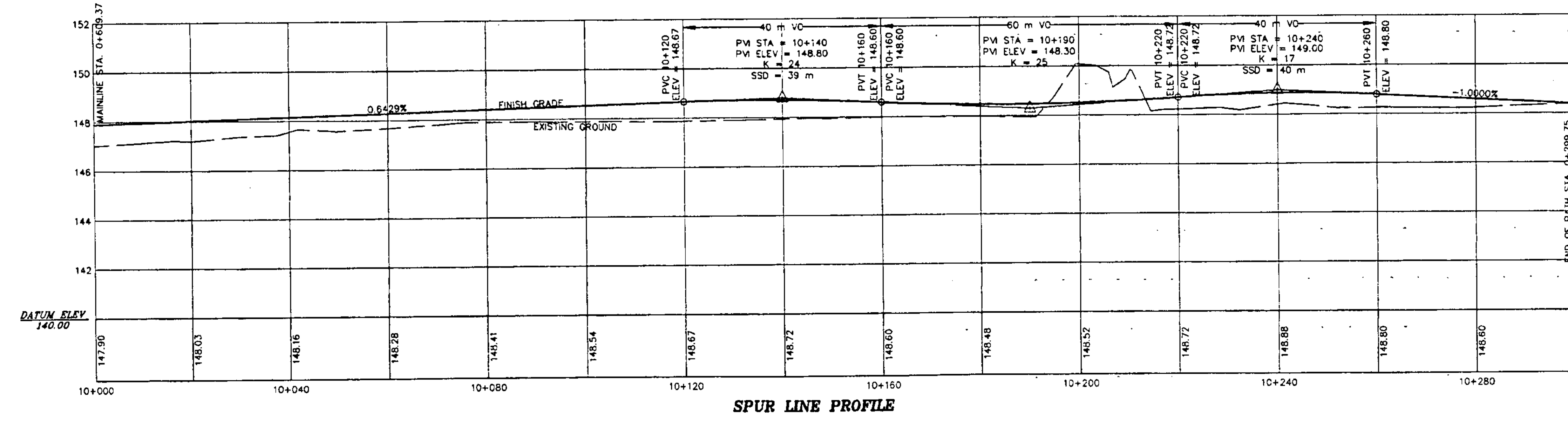
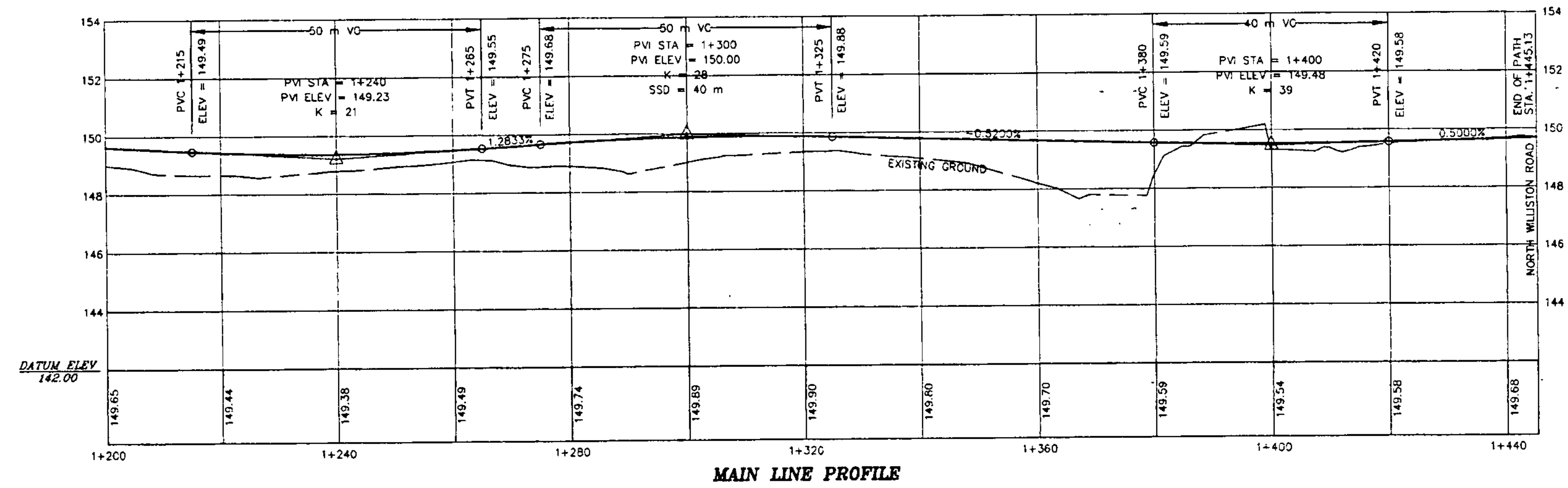
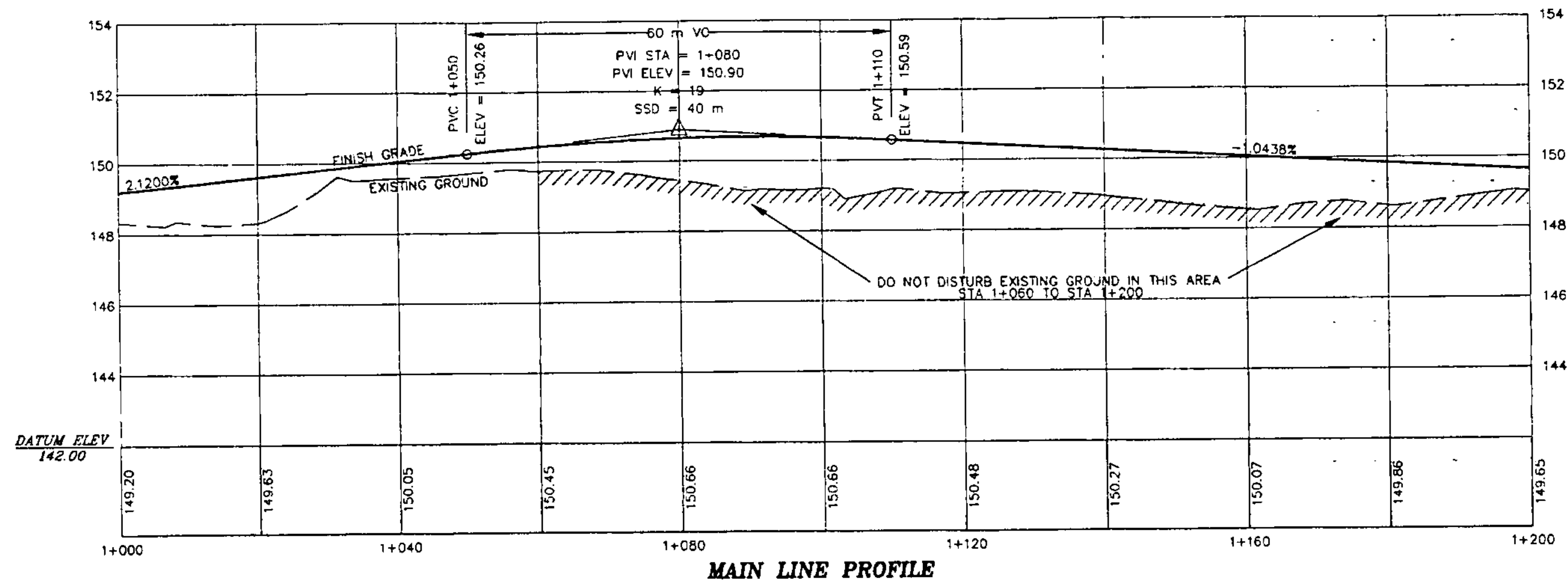
DATUM
VERTICAL NAD 1983
HORIZONTAL N/A



MAIN LINE PROFILE STA. 0+000 TO STA. 1+000



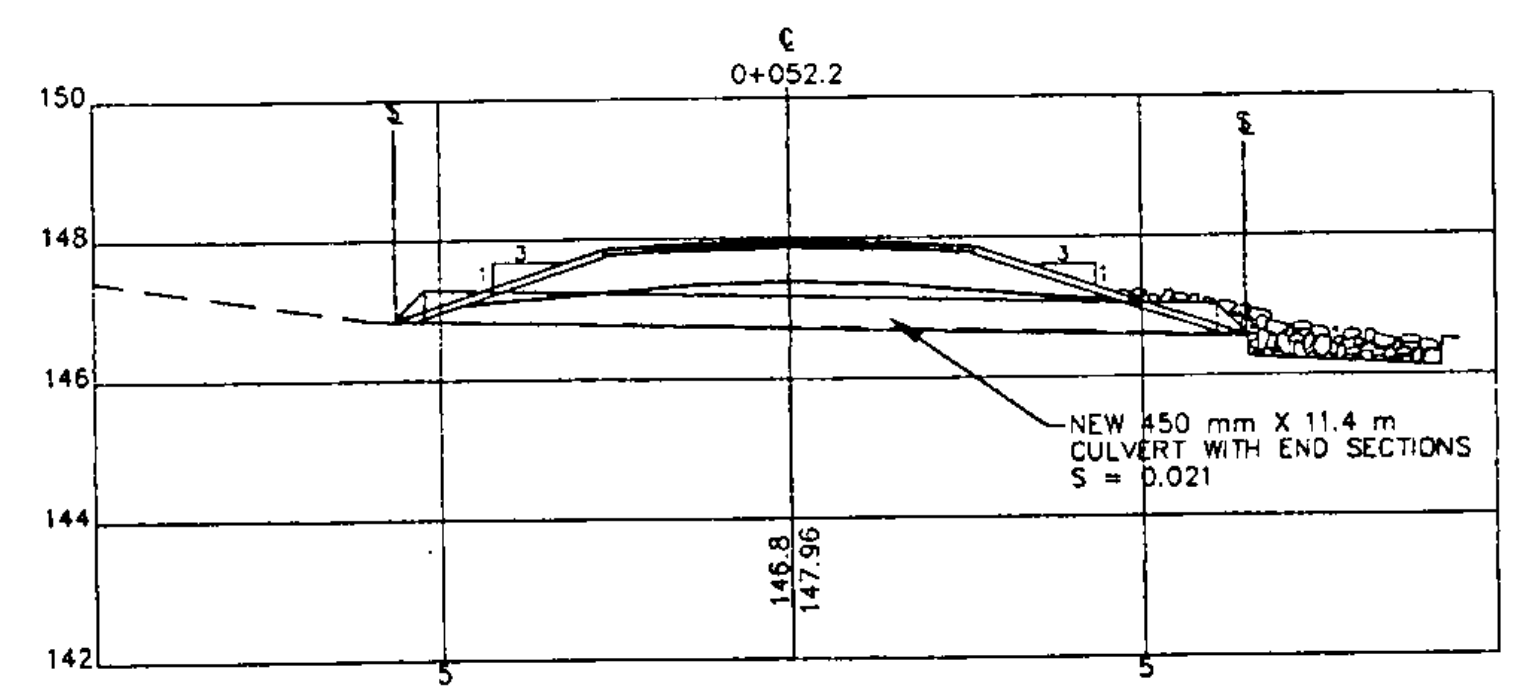
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6-30-94	REVISED PER STATE REVIEW	DLH
date 1-25-94	REVISED PER STATE REVIEW	by ABR
REVISIONS		
STATE OF VERMONT AGENCY OF TRANSPORTATION		proj. no. 93-054
TRANSPORTATION PATH WILLISTON STP BIKE (9) IN WILLISTON VERMONT		survey HLS/BFD
LAMOUREUX, STONE & O'LEARY Consulting Engineers Inc.		design L.A.
14 Morse Drive Essex Junction, VT 05452 (802) 878-4450		prep'd PJE/DLH
Engineers-Planners-Surveyors		checked DLH/LAL
		date 12-1-93
		scale 1:500 HOR. 1:100 VERT.
		sheet no. 12 OF 36



Metric

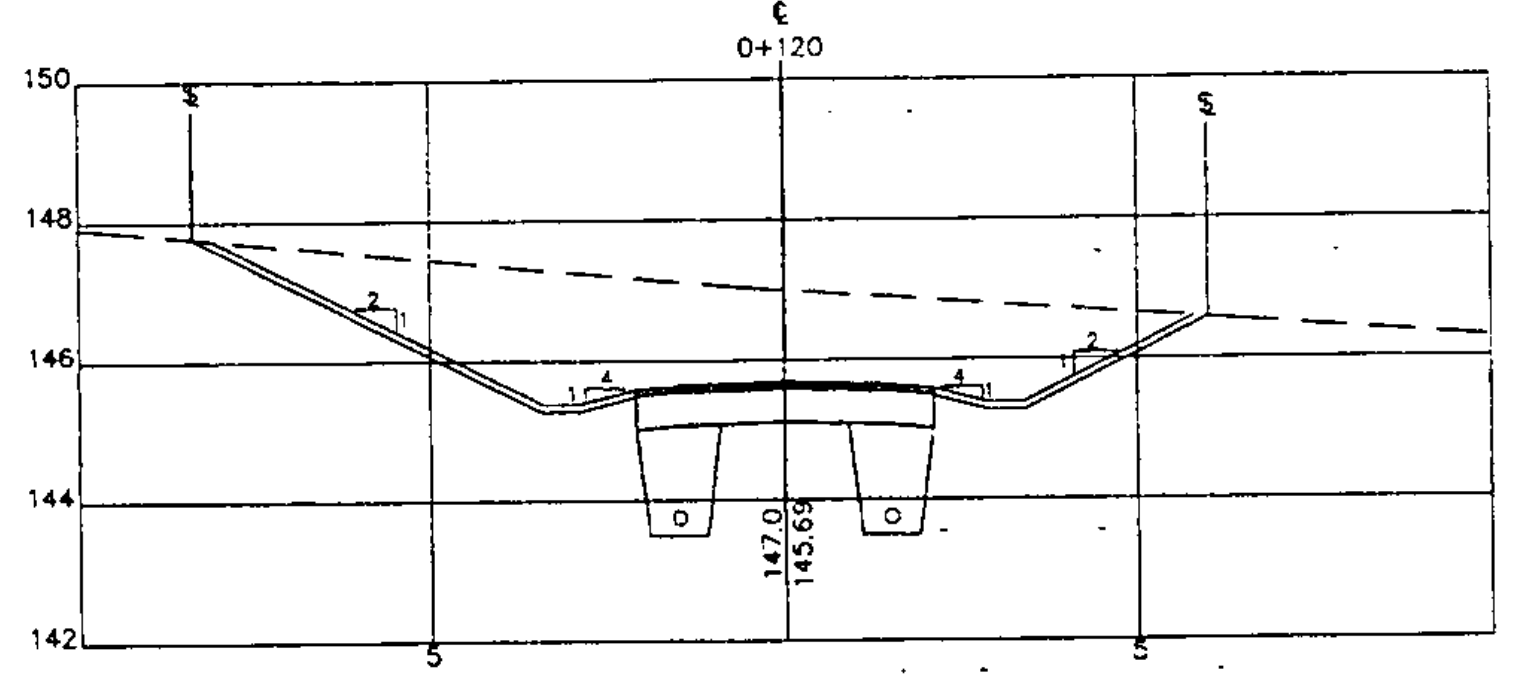
DATE	DESCRIPTION	BY
5-2-95	REVISED PER STATE REVIEW	DLH
6-30-94	REVISED PER STATE REVIEW	DLH
date 1-25-94	desc. REVISED PER STATE REVIEW	by ASR

REVISIONS	
STATE OF VERMONT AGENCY OF TRANSPORTATION	proj. no. 93-064 survey HLS/BFD design LAL drawn PJE/DLH checked DLH/LAL date 12-1-93
TRANSPORTATION PATH WILLISTON STP BIKE (9) IN WILLISTON VERMONT	scale 1:500 HOR 1:100 VERT sheet no.
LAMOUREUX, STONE & O'LEARY Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450	13 OF 36
Engineers-Planners-Surveyors	

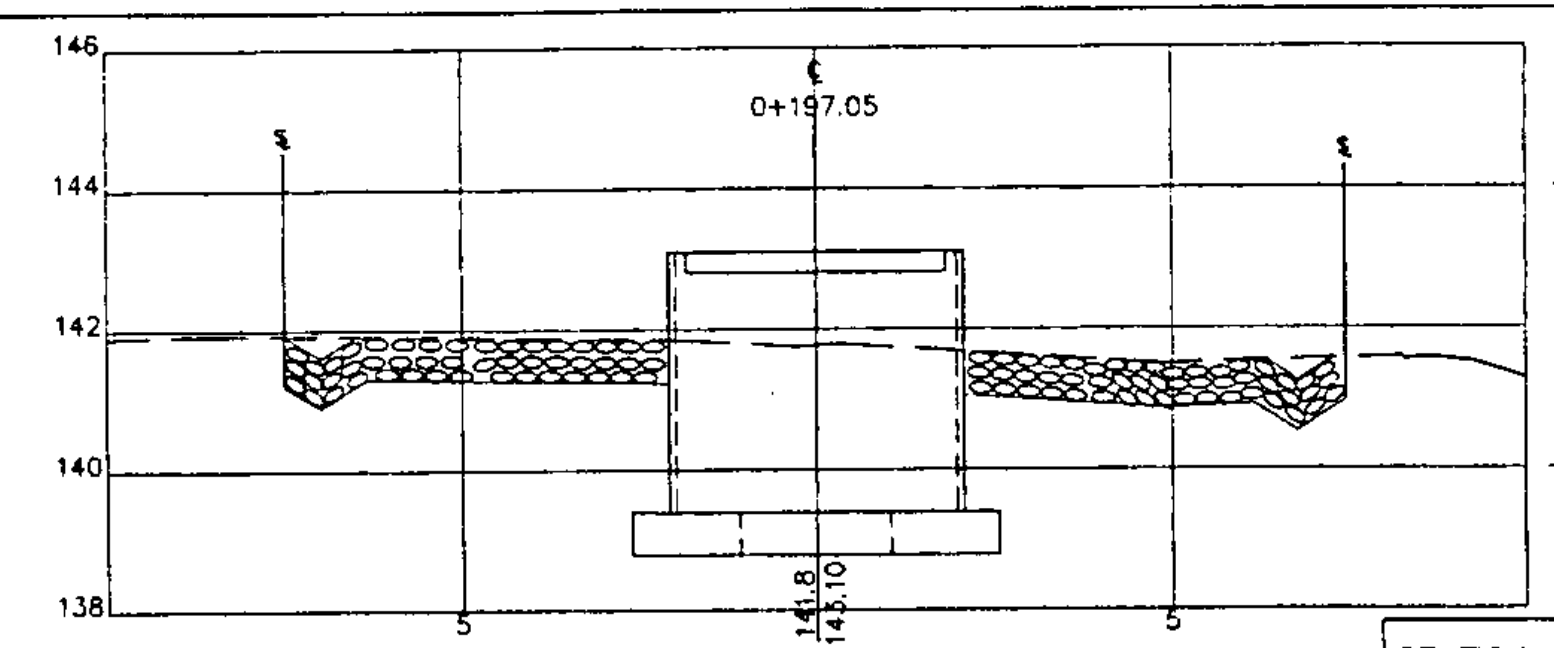


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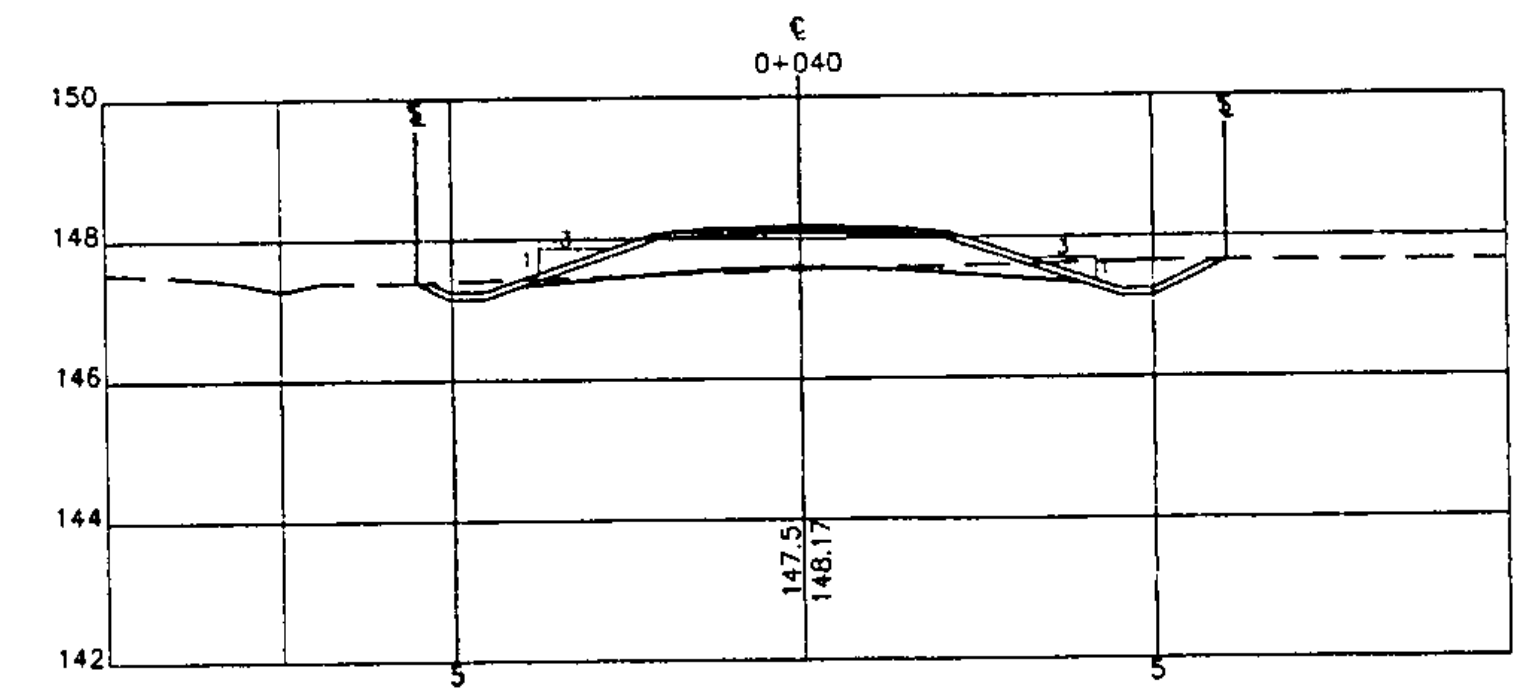
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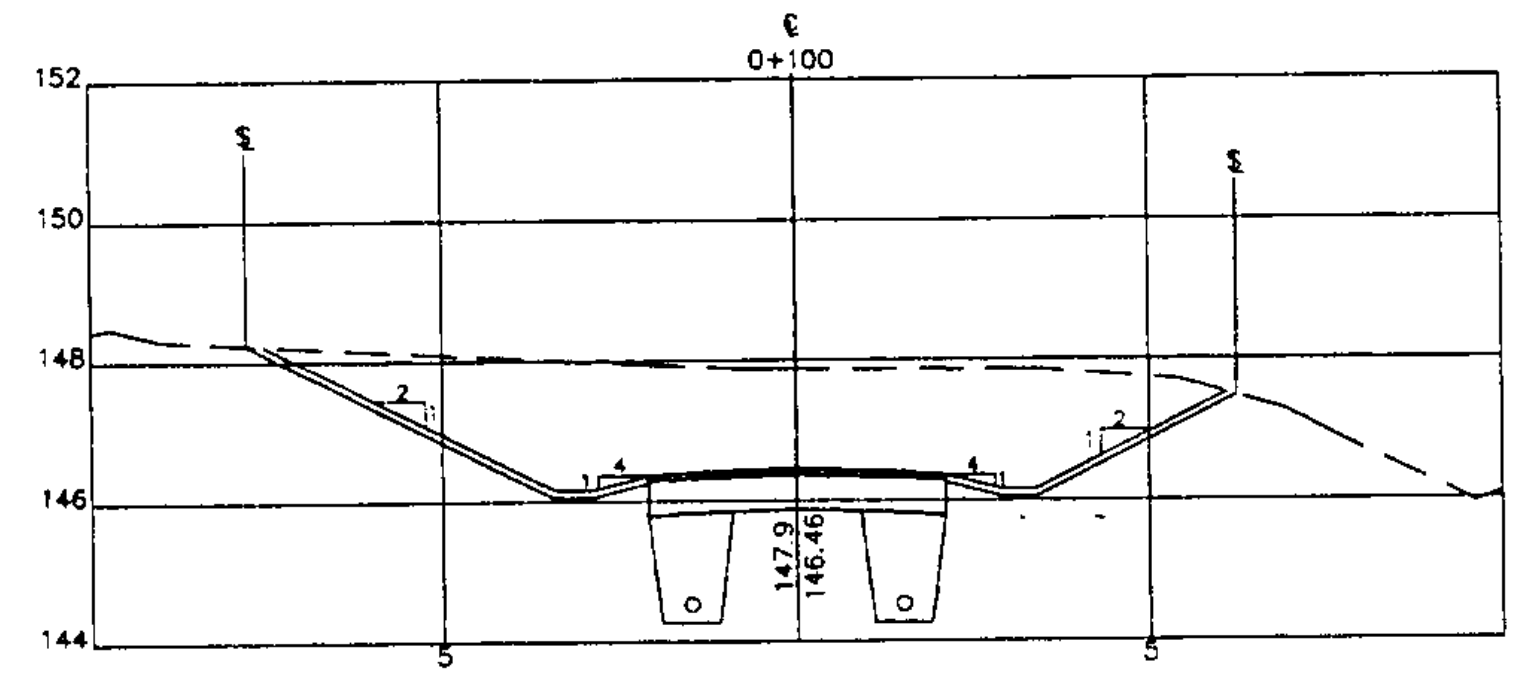
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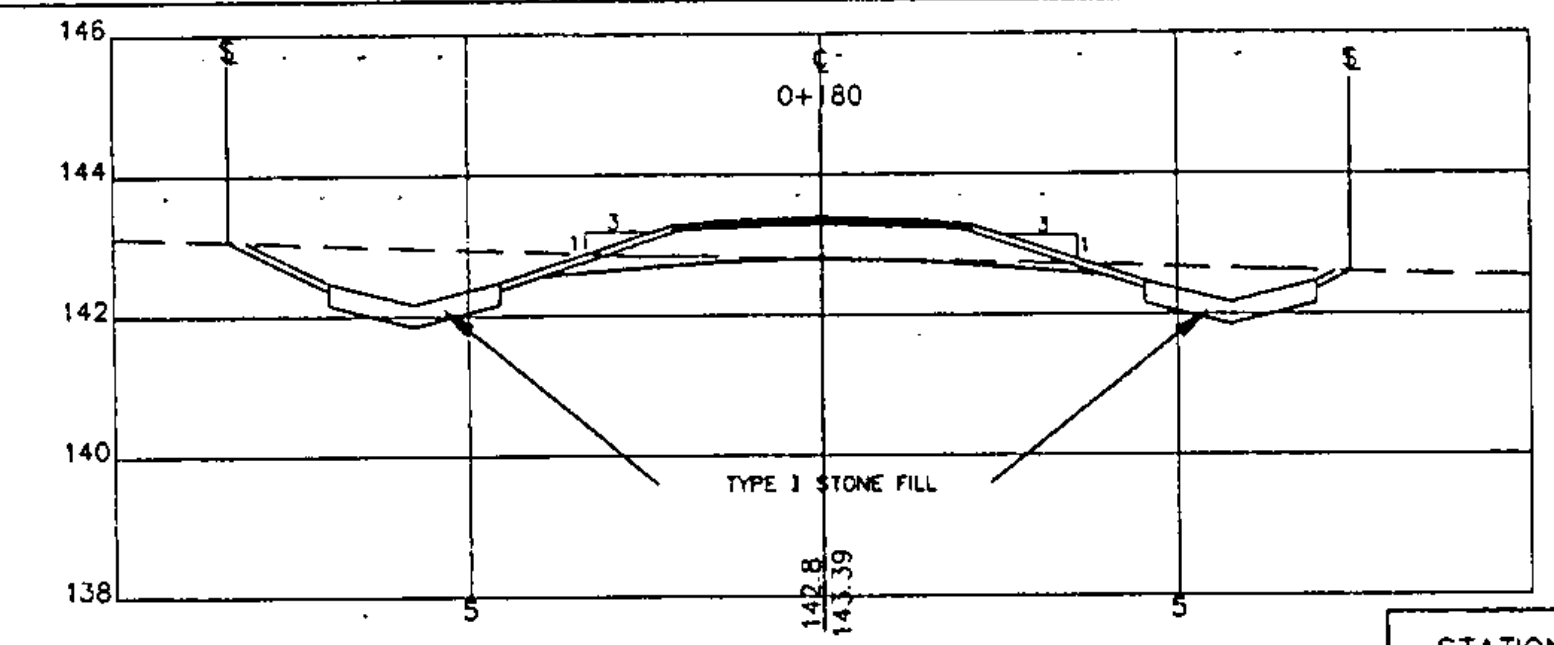
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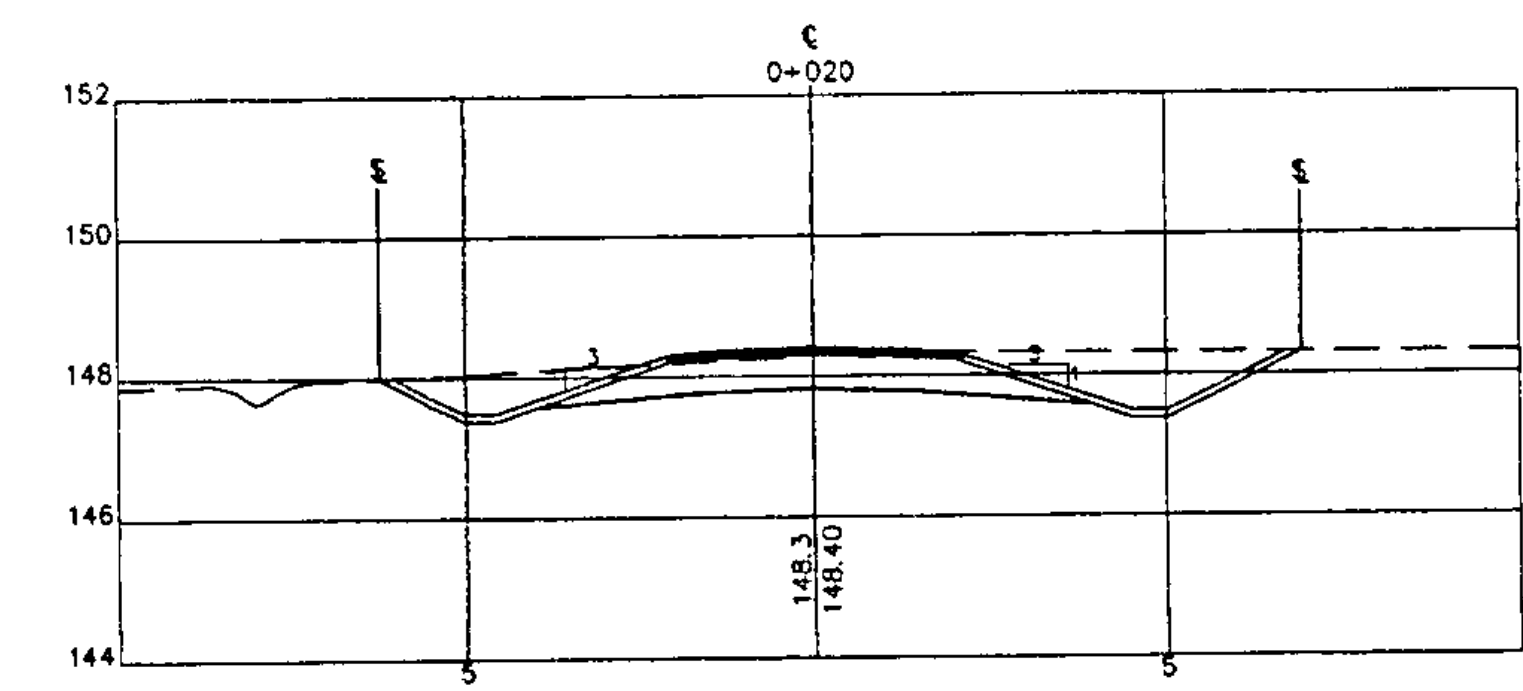
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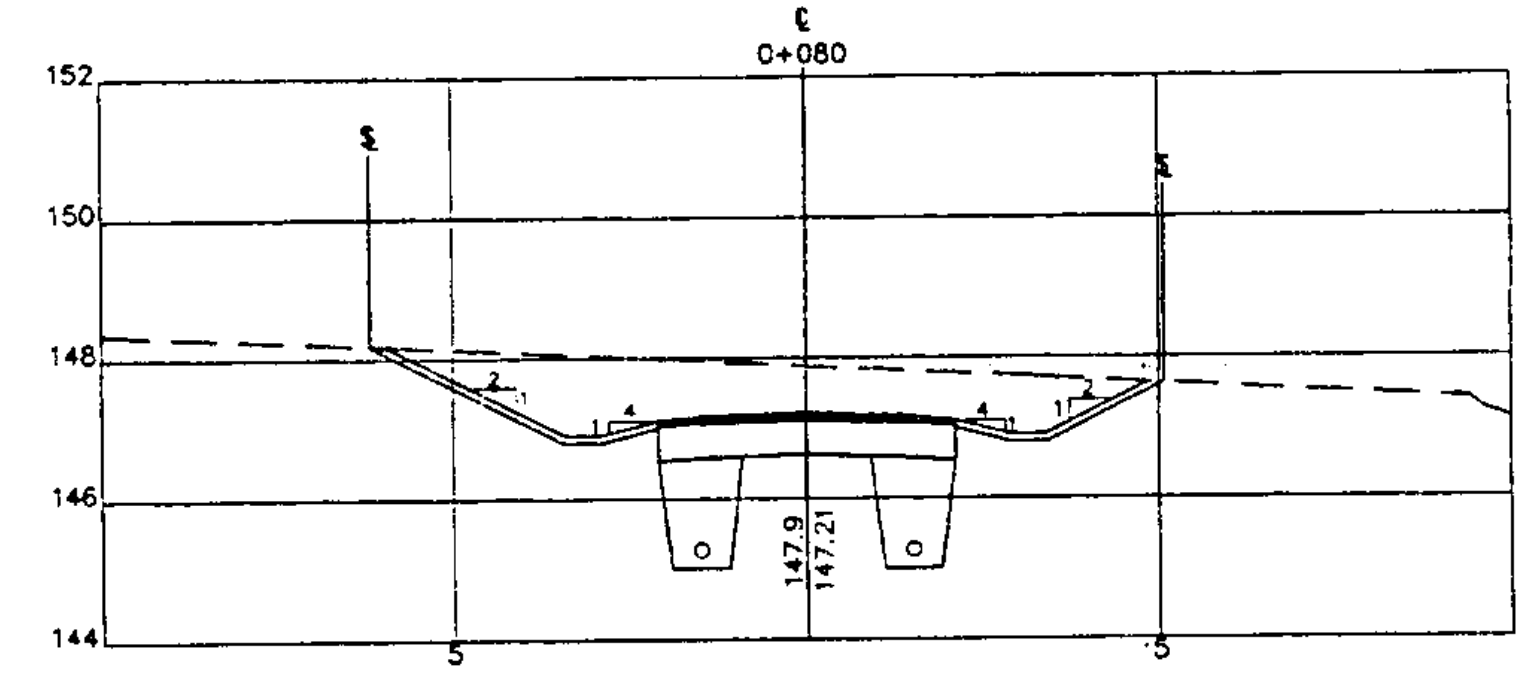
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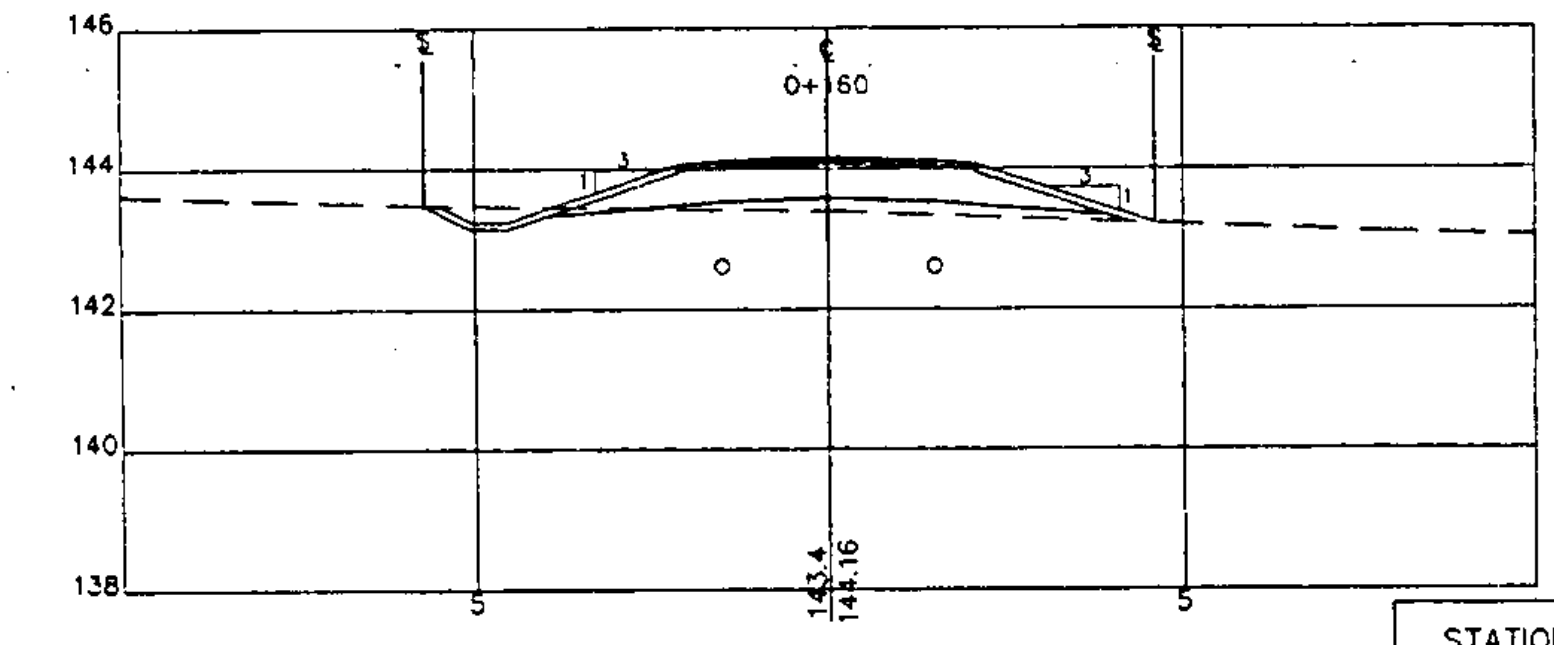
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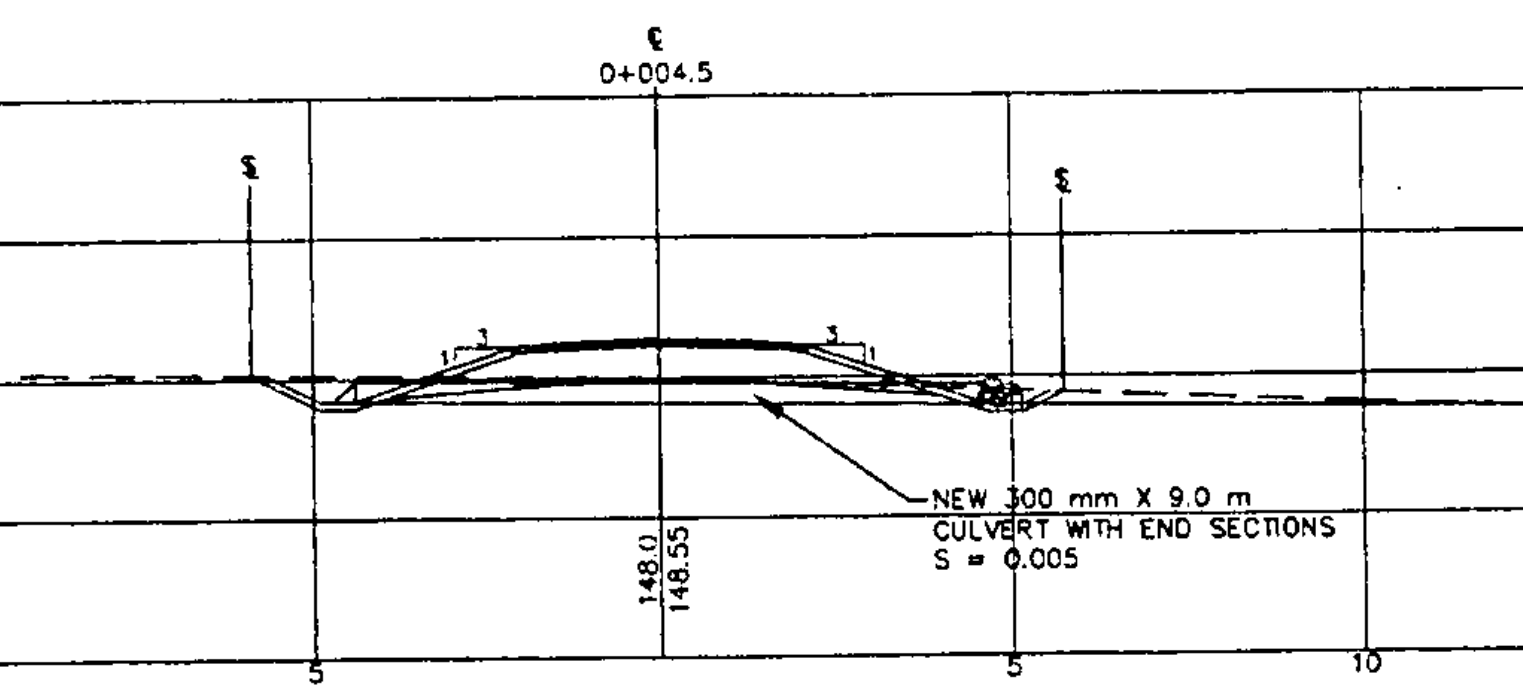
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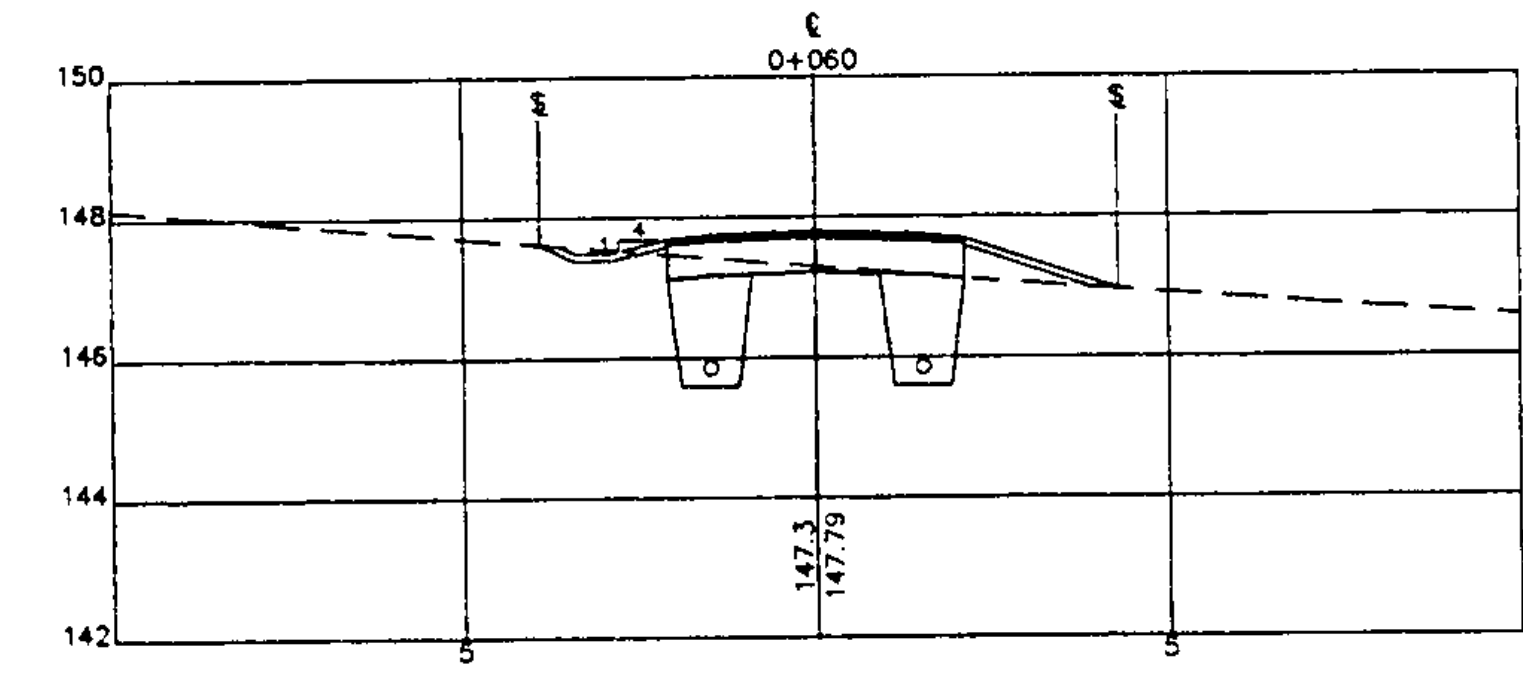
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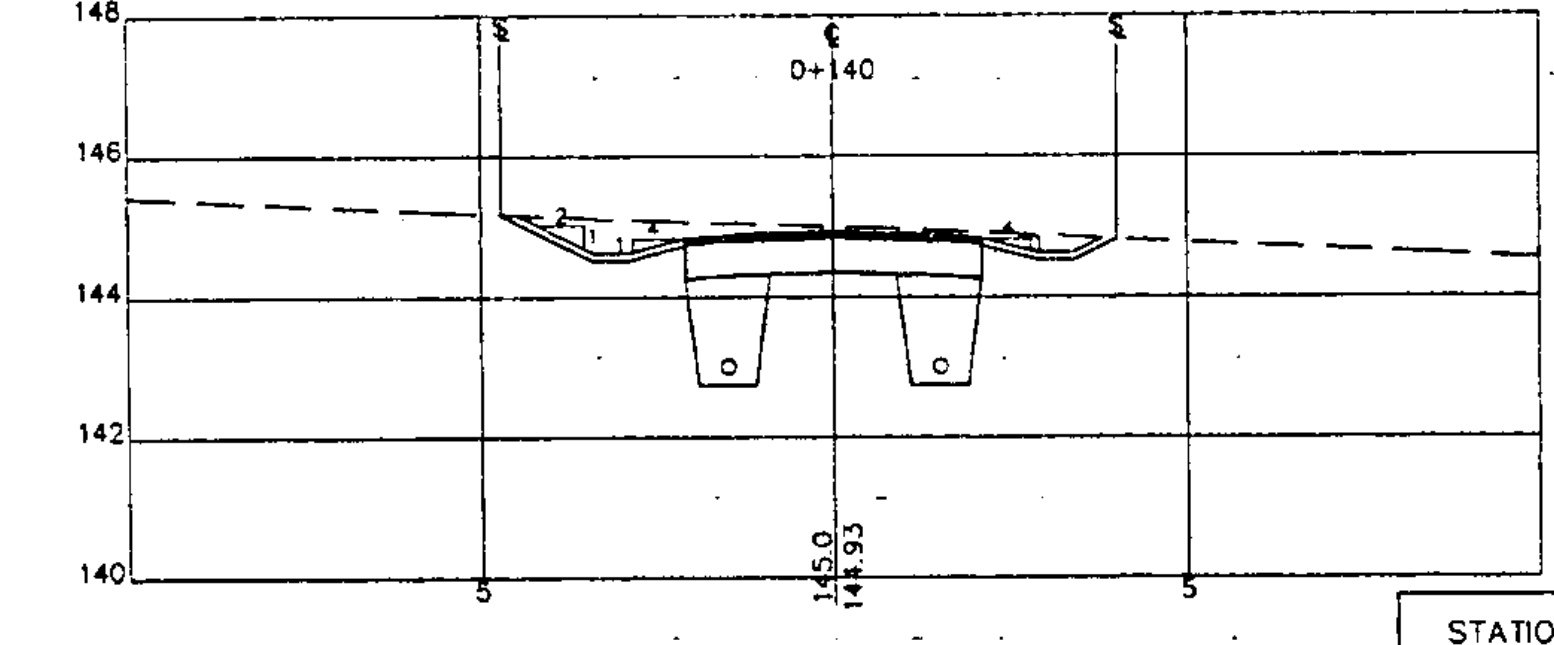
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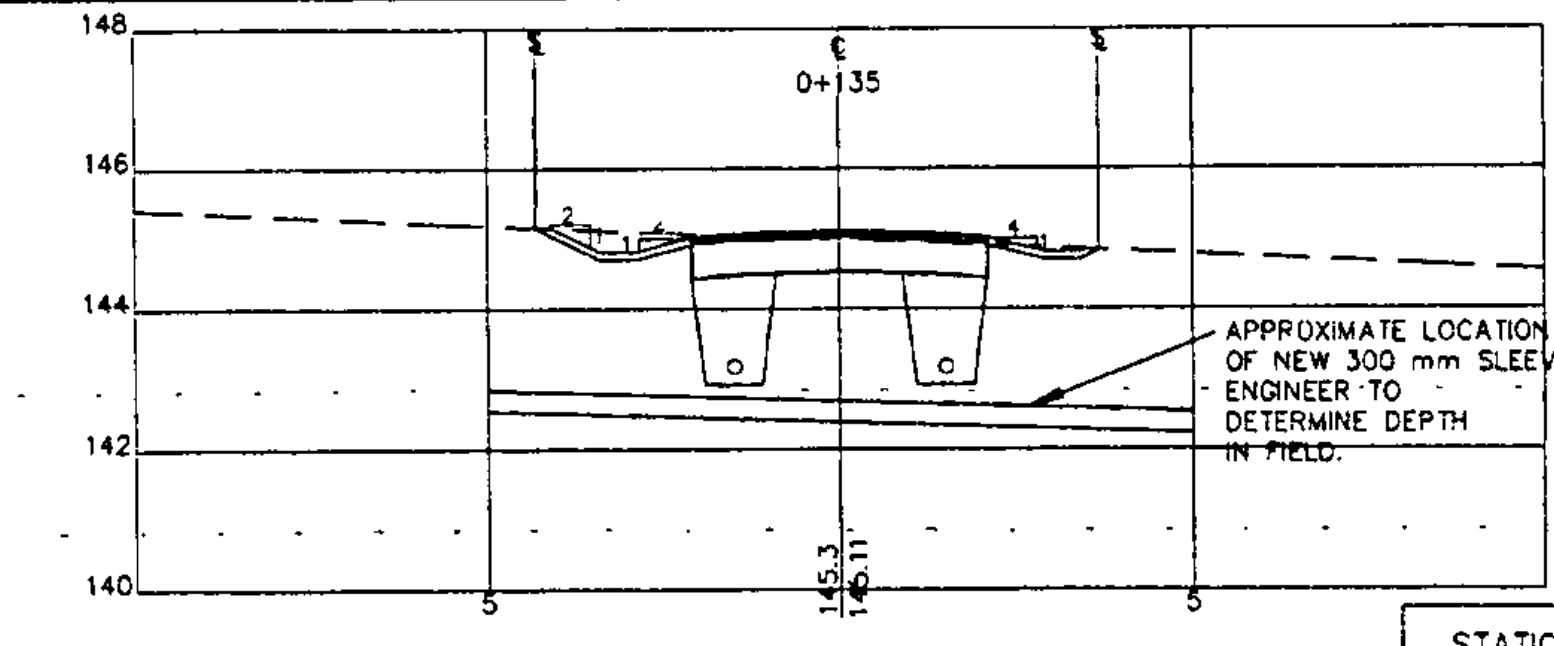
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STATION 0+060



STATION 0+140



STATION 0+135

LEGEND

- SLOPE RIGHTS AND CLEARING LIMITS
- EXISTING GROUND

GRAPHIC SCALE

(IN METERS)



1 : 100

LAMOUREUX & STONE

14 Morse Drive
Essex Junction, Vermont 05452
(802) 878-4450

Consulting Engineers Inc.

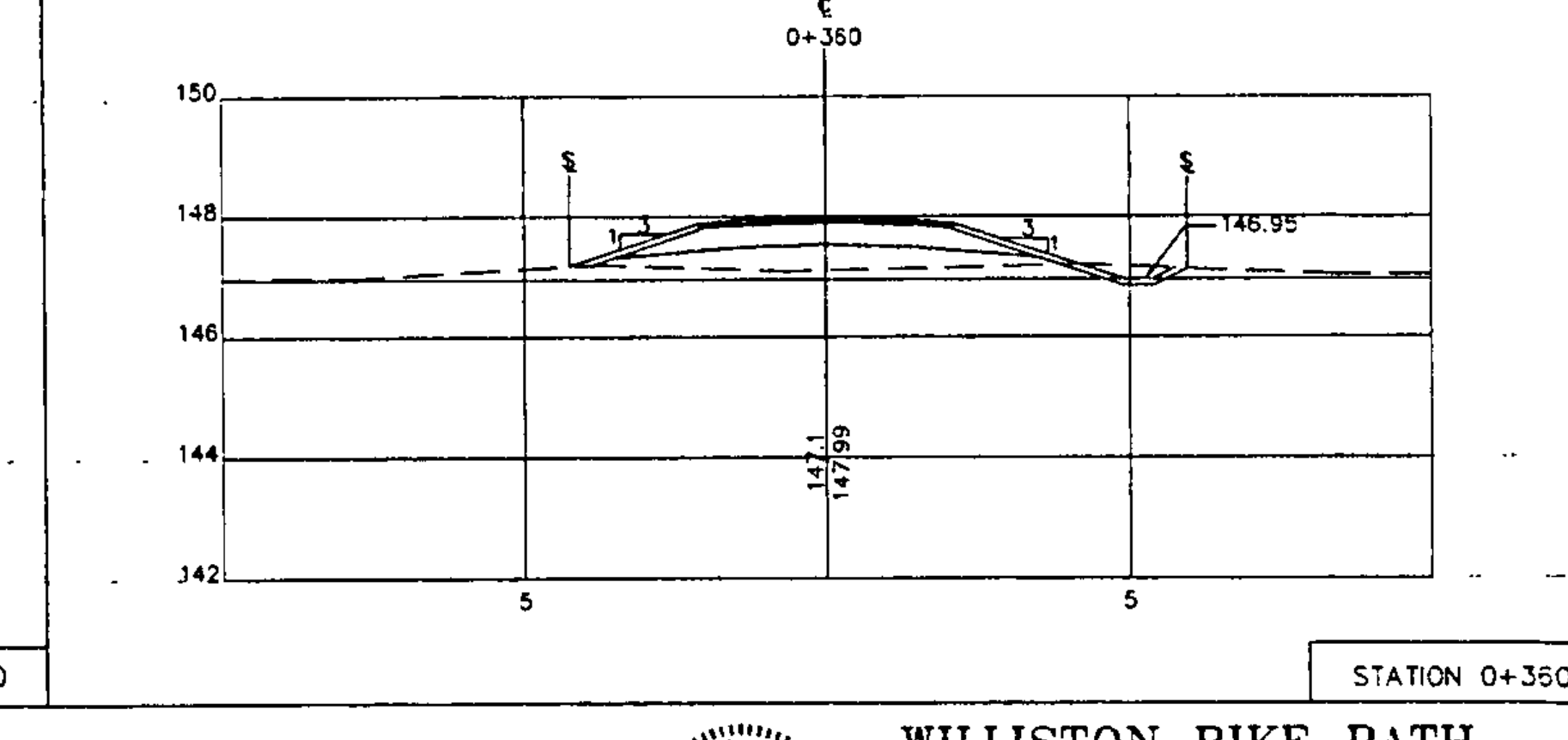
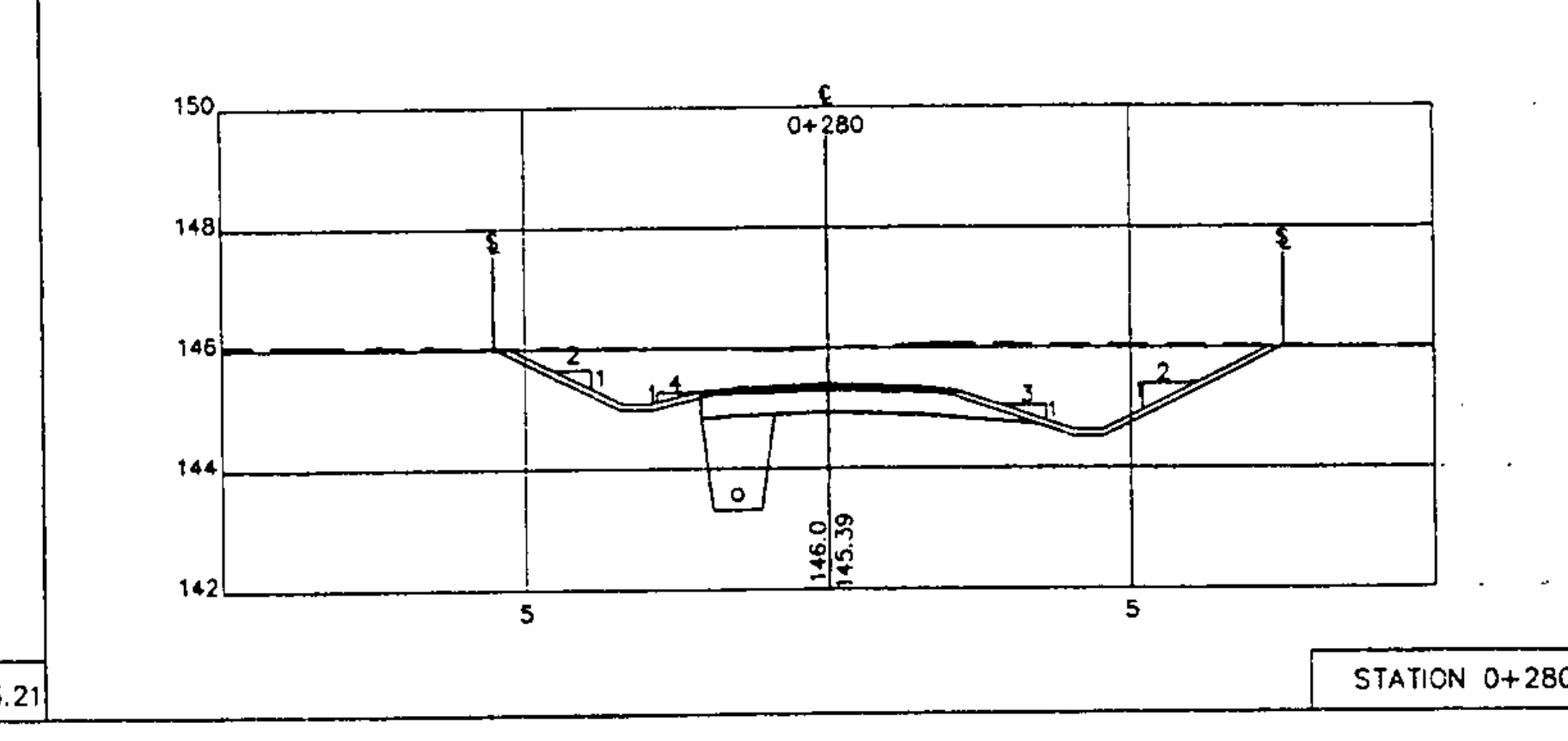
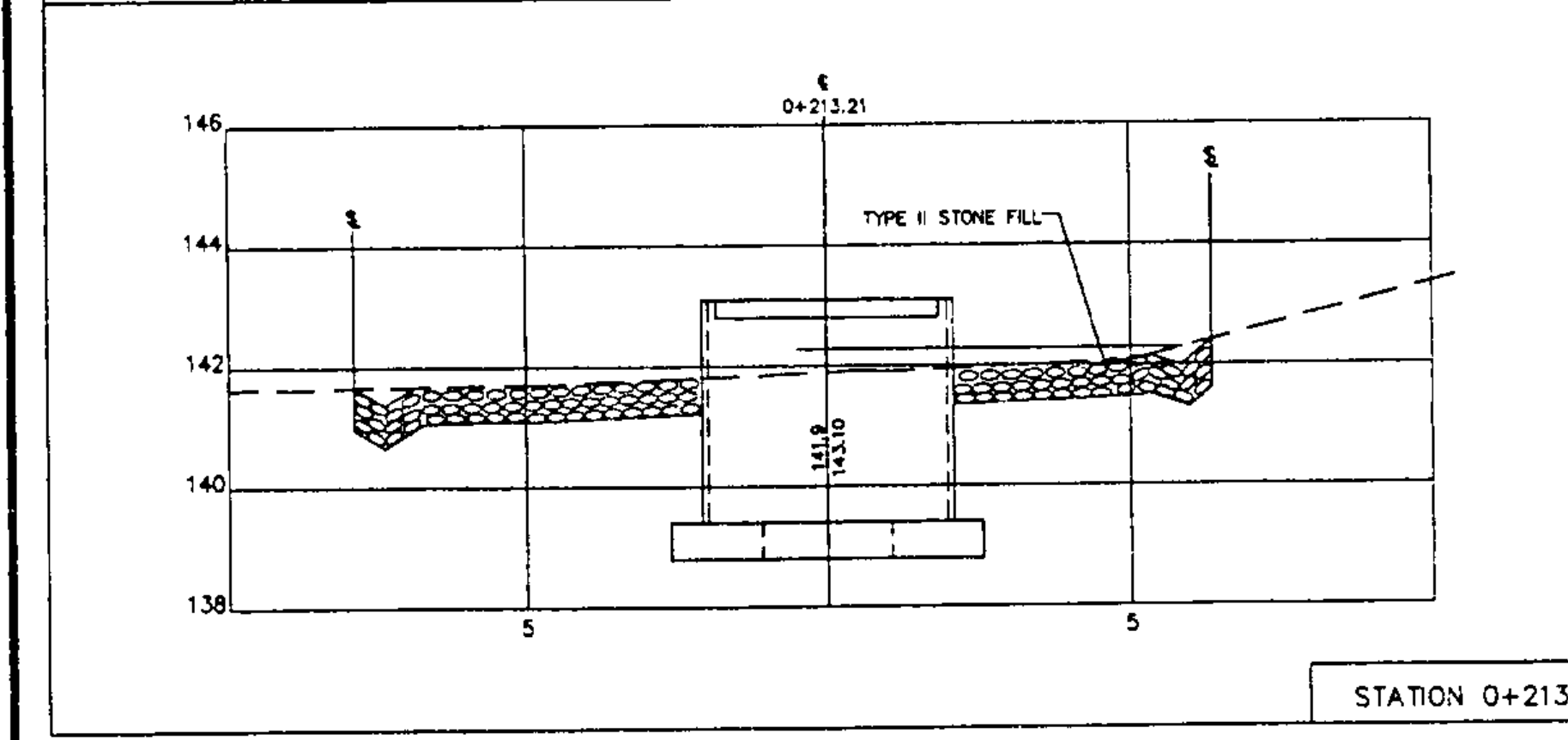
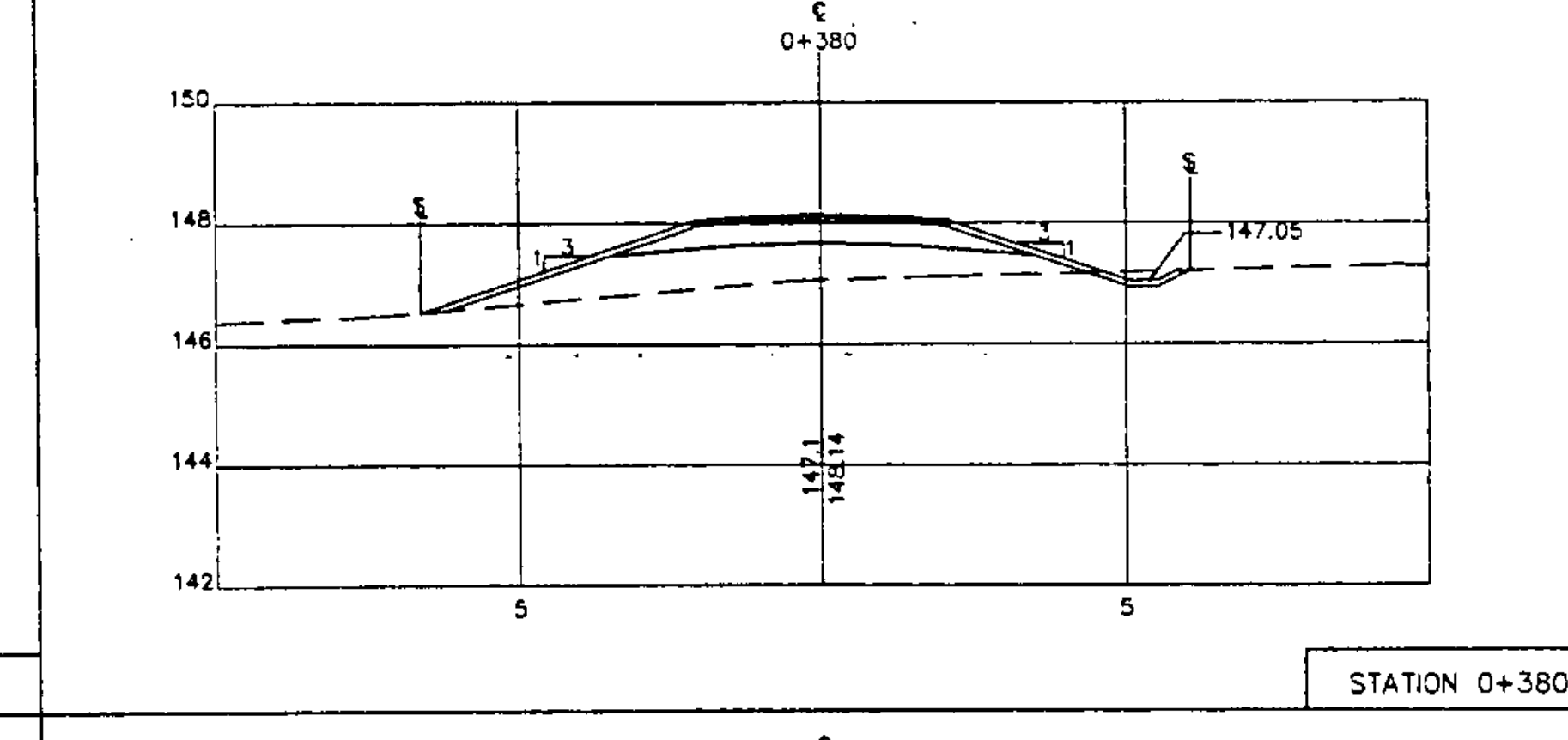
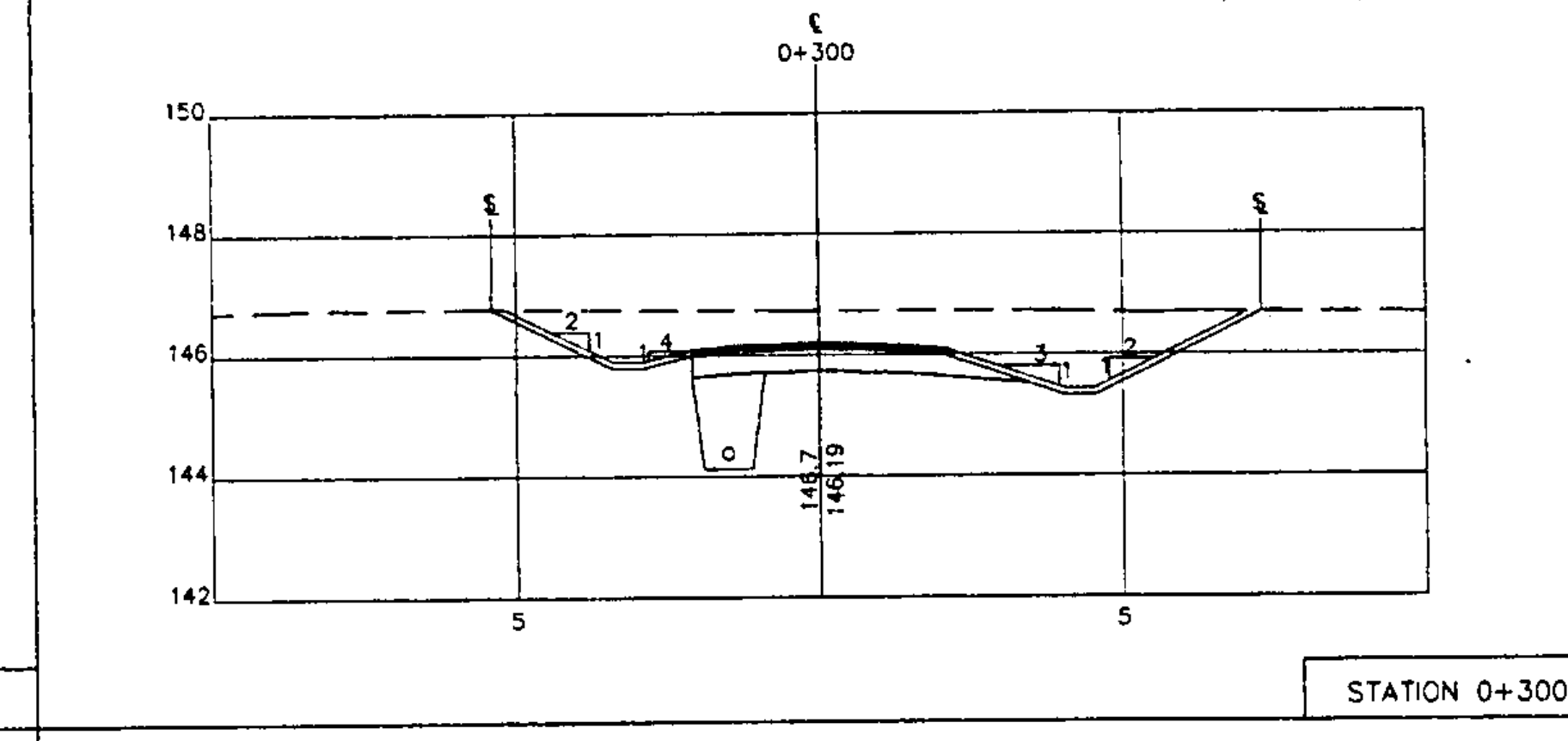
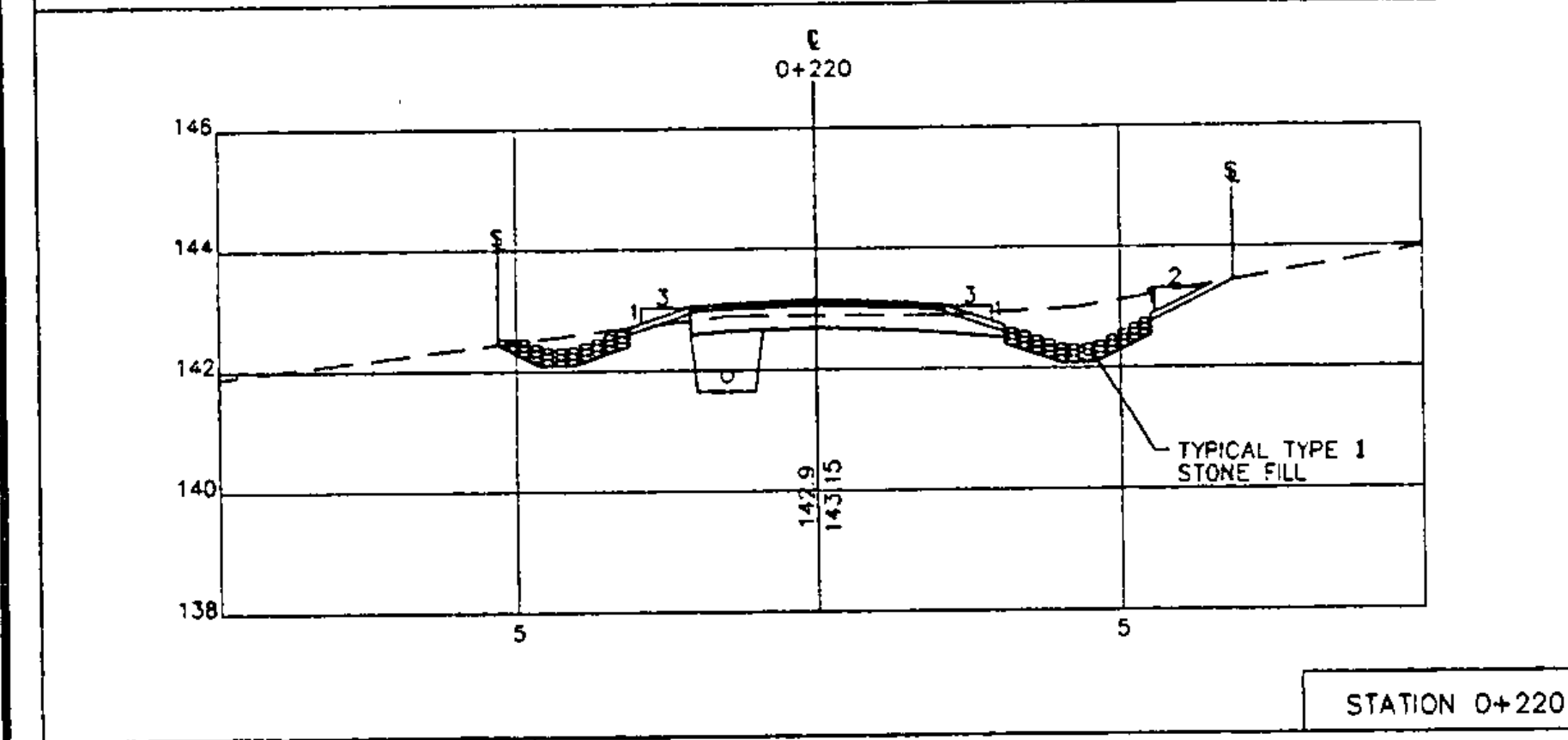
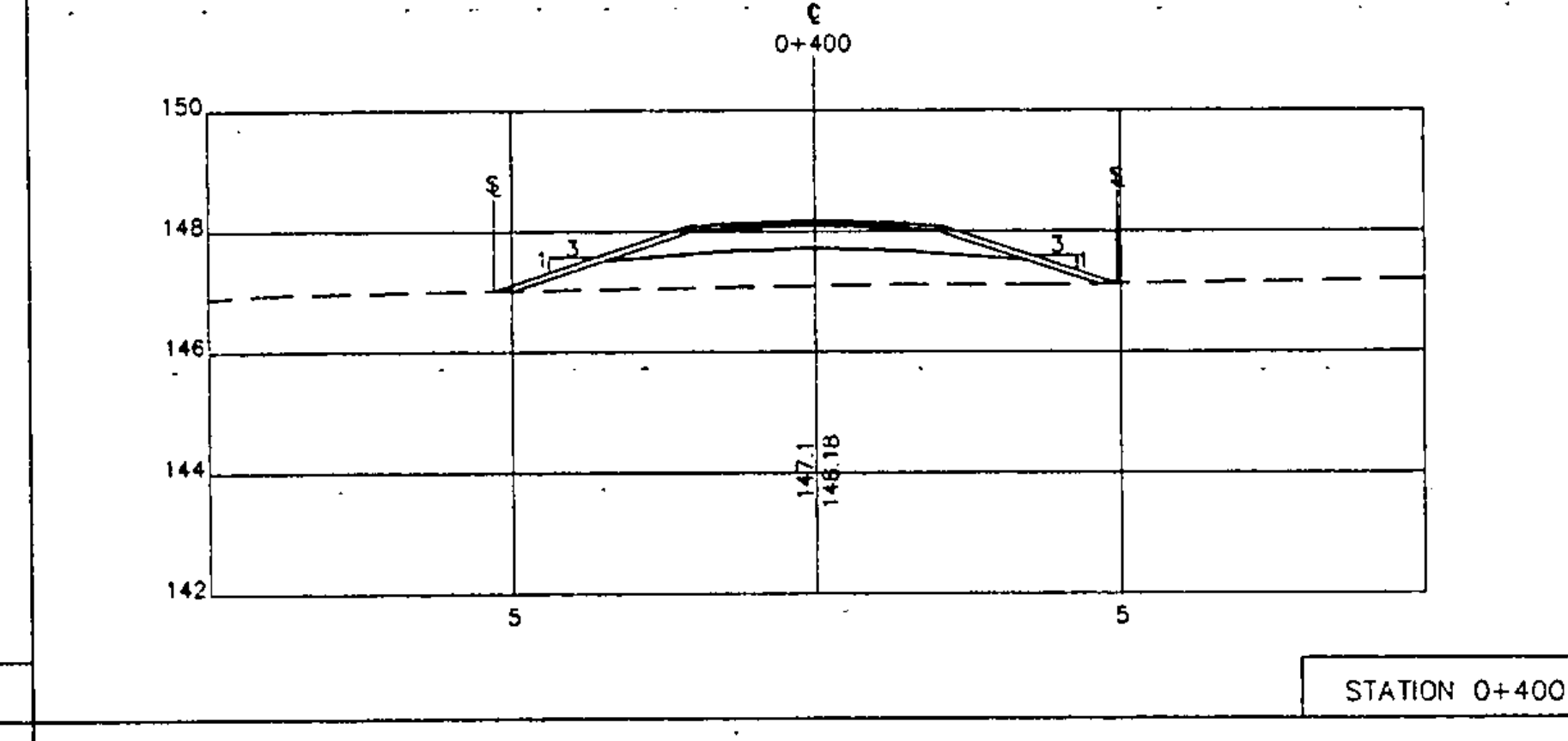
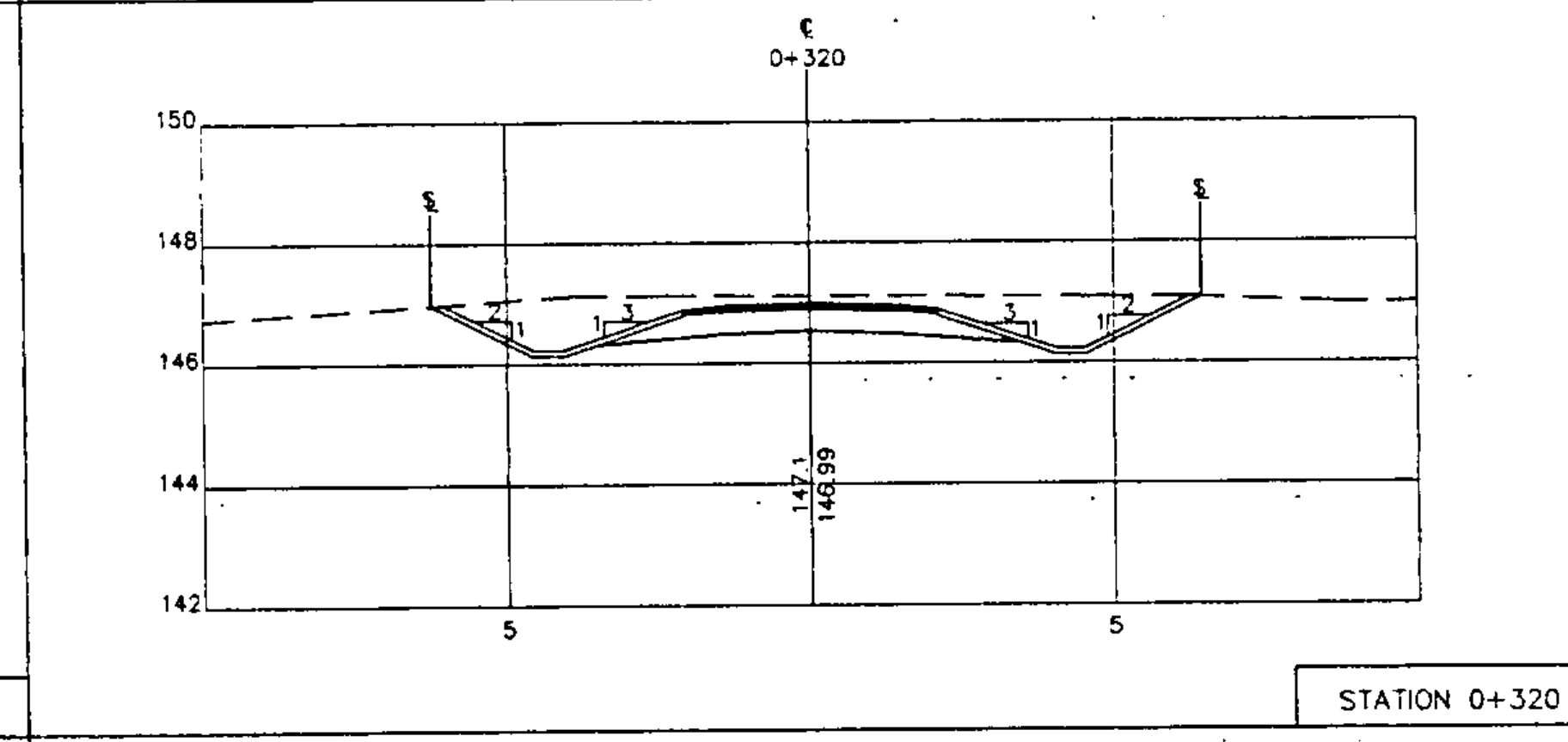
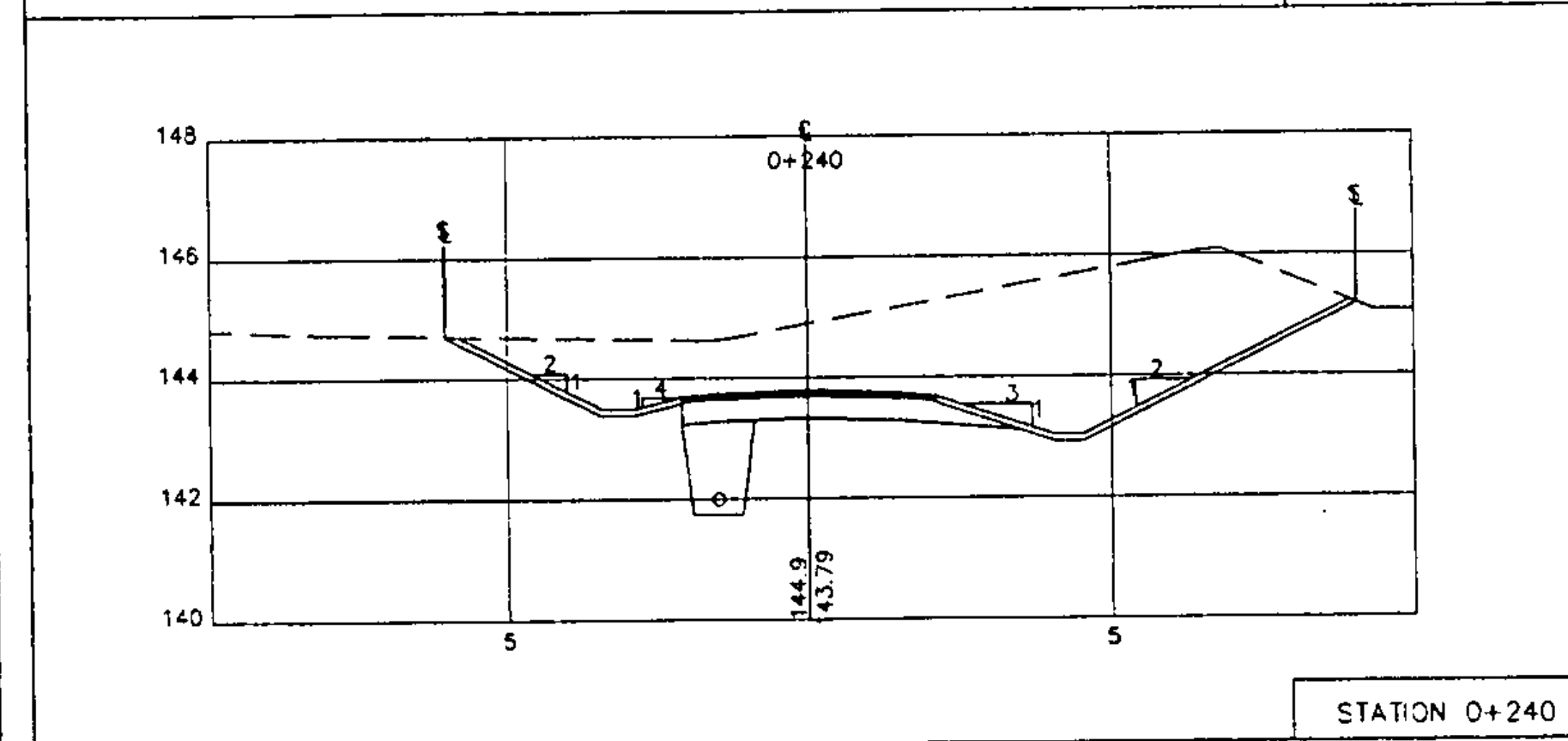
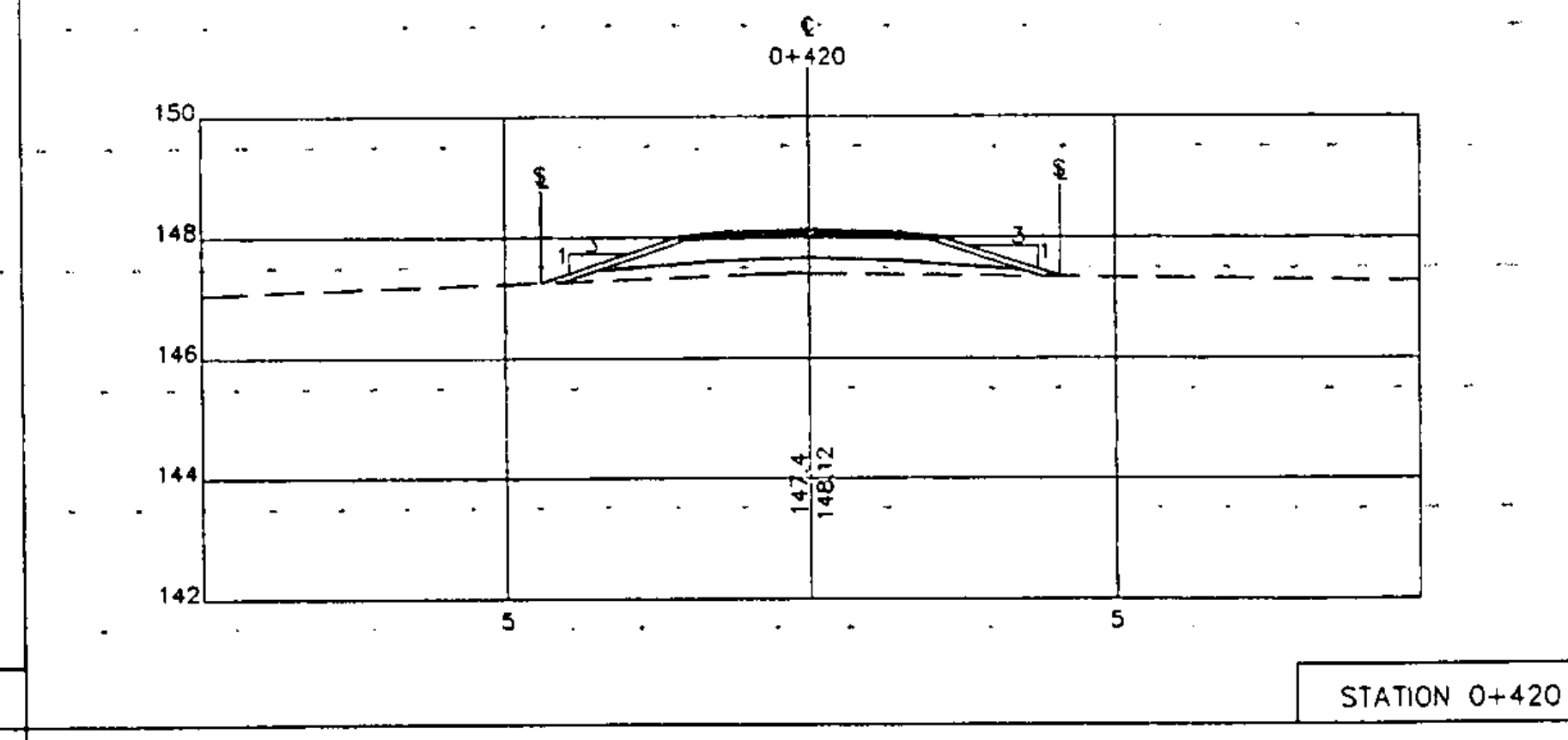
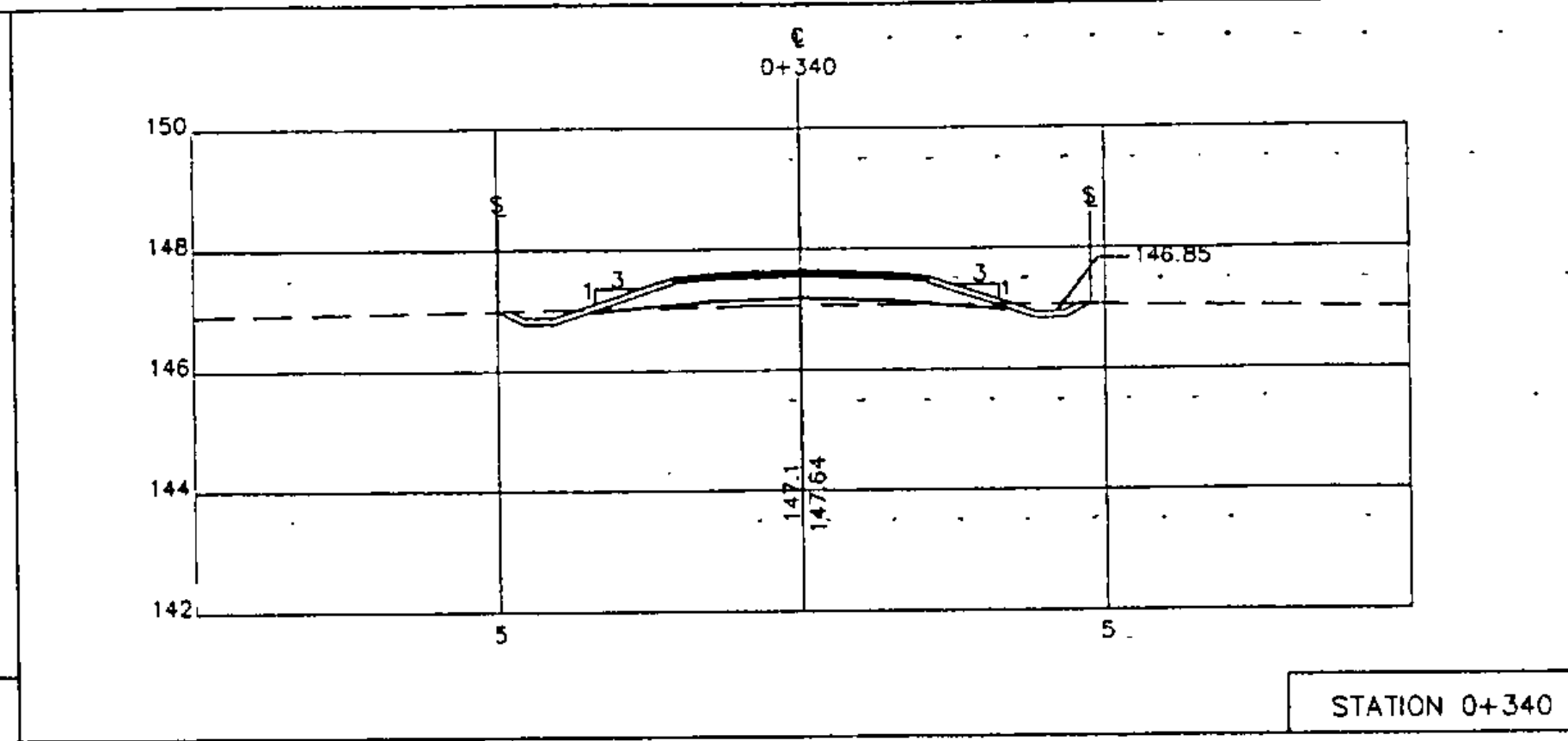
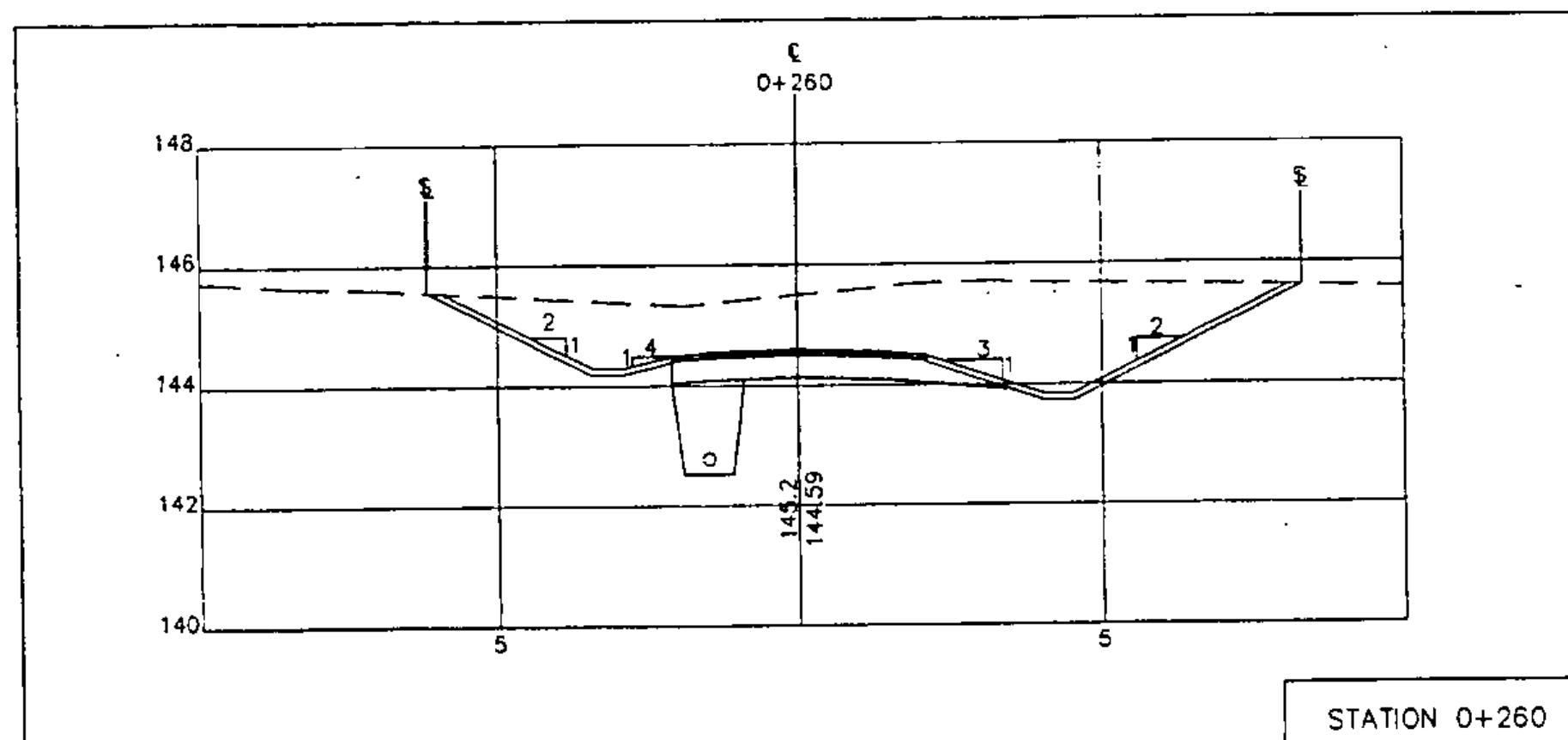


WILLISTON BIKE PATH

JOB #: 93-064 STP-BIKE (9)

DRAWING #:

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LEGEND

— SLOPE RIGHTS AND CLEARING LIMITS
 - - - - - EXISTING GROUND

GRAPHIC SCALE

(IN METERS)



1 : 100

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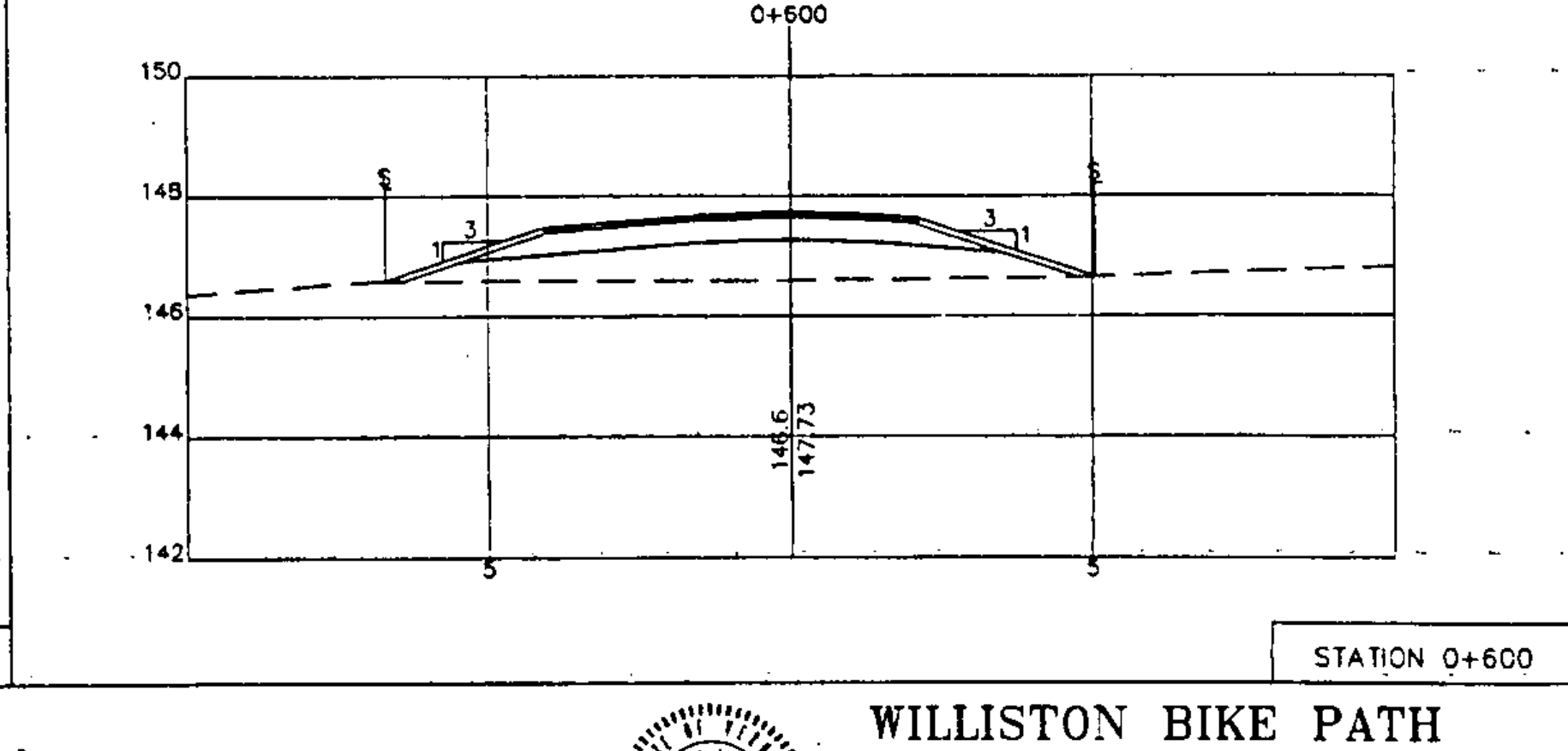
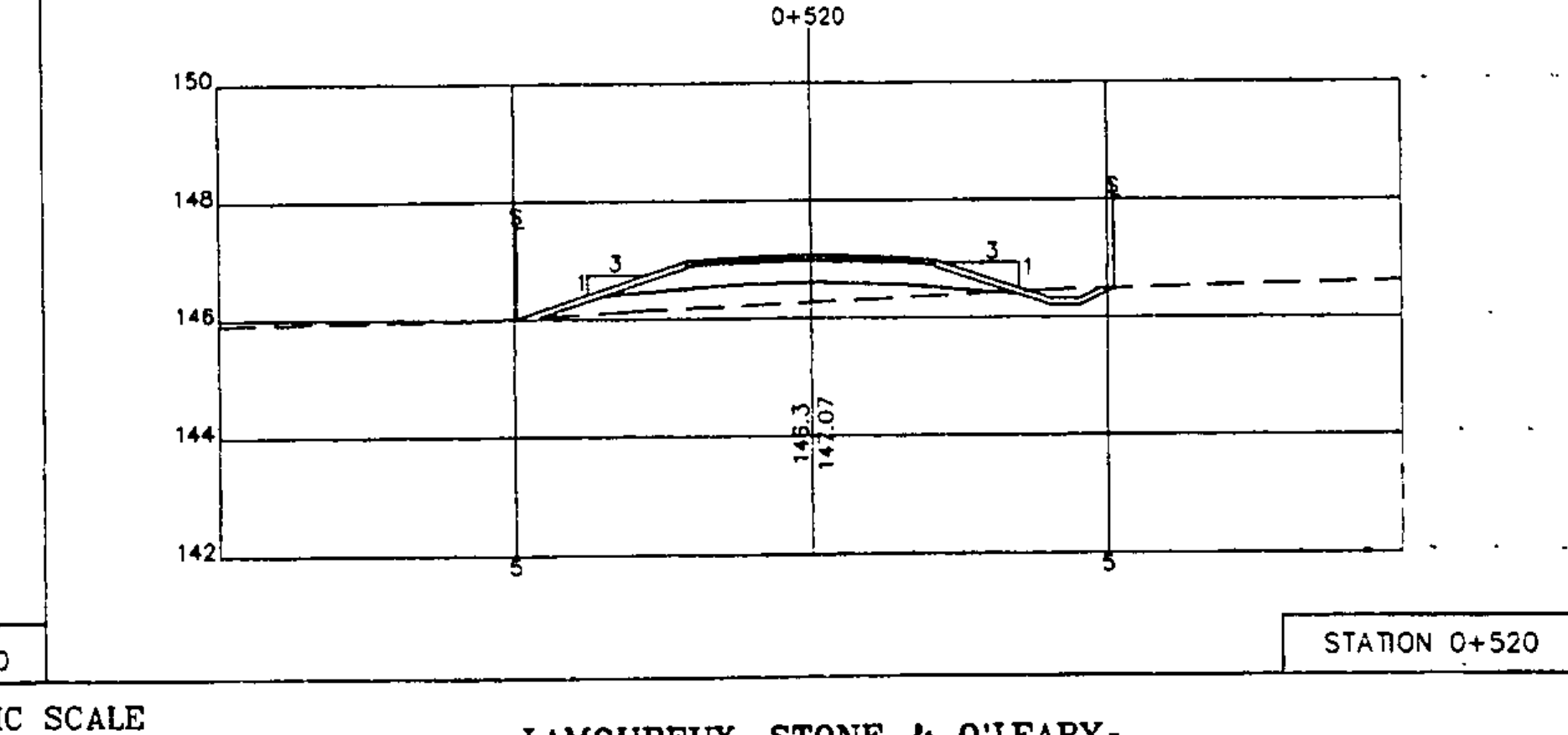
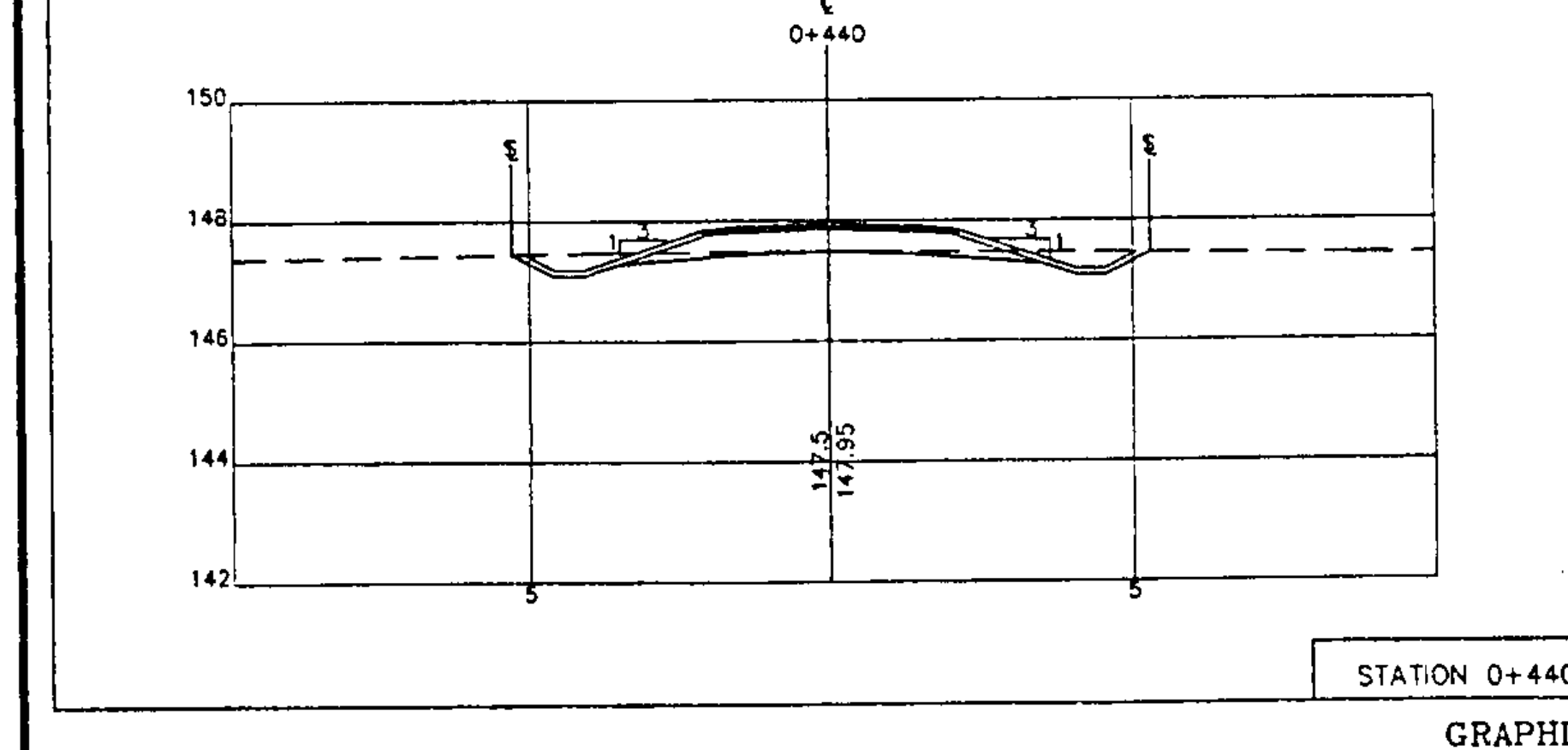
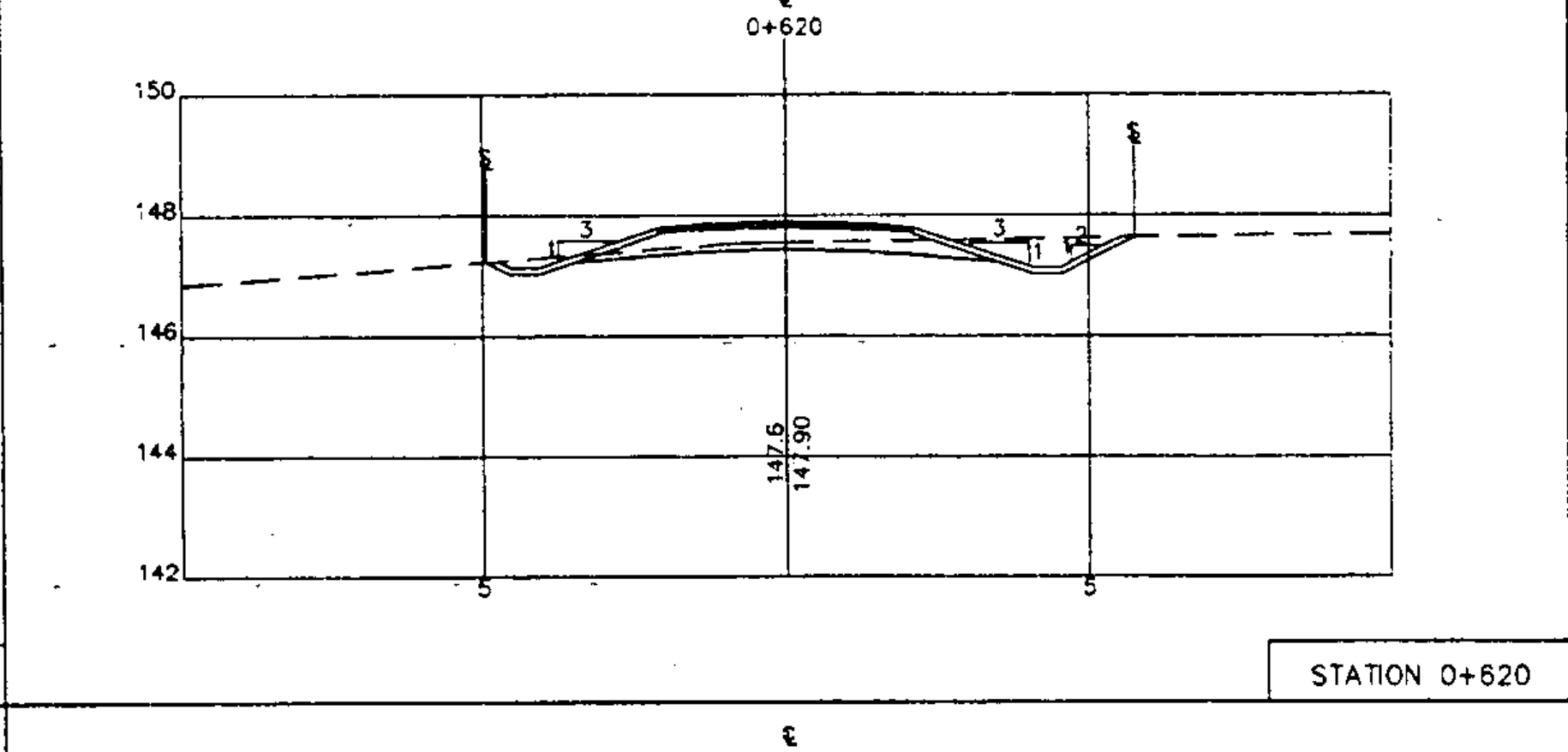
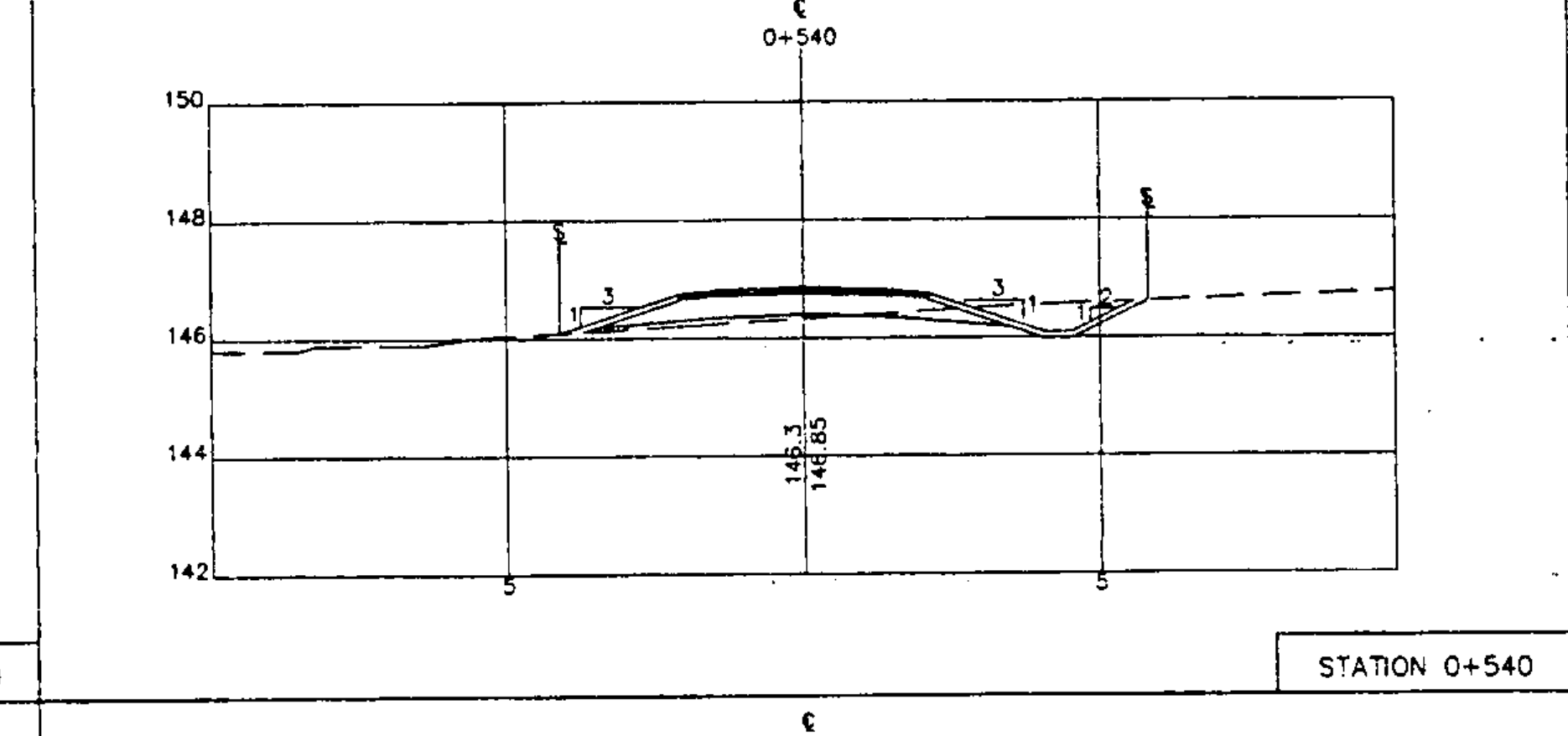
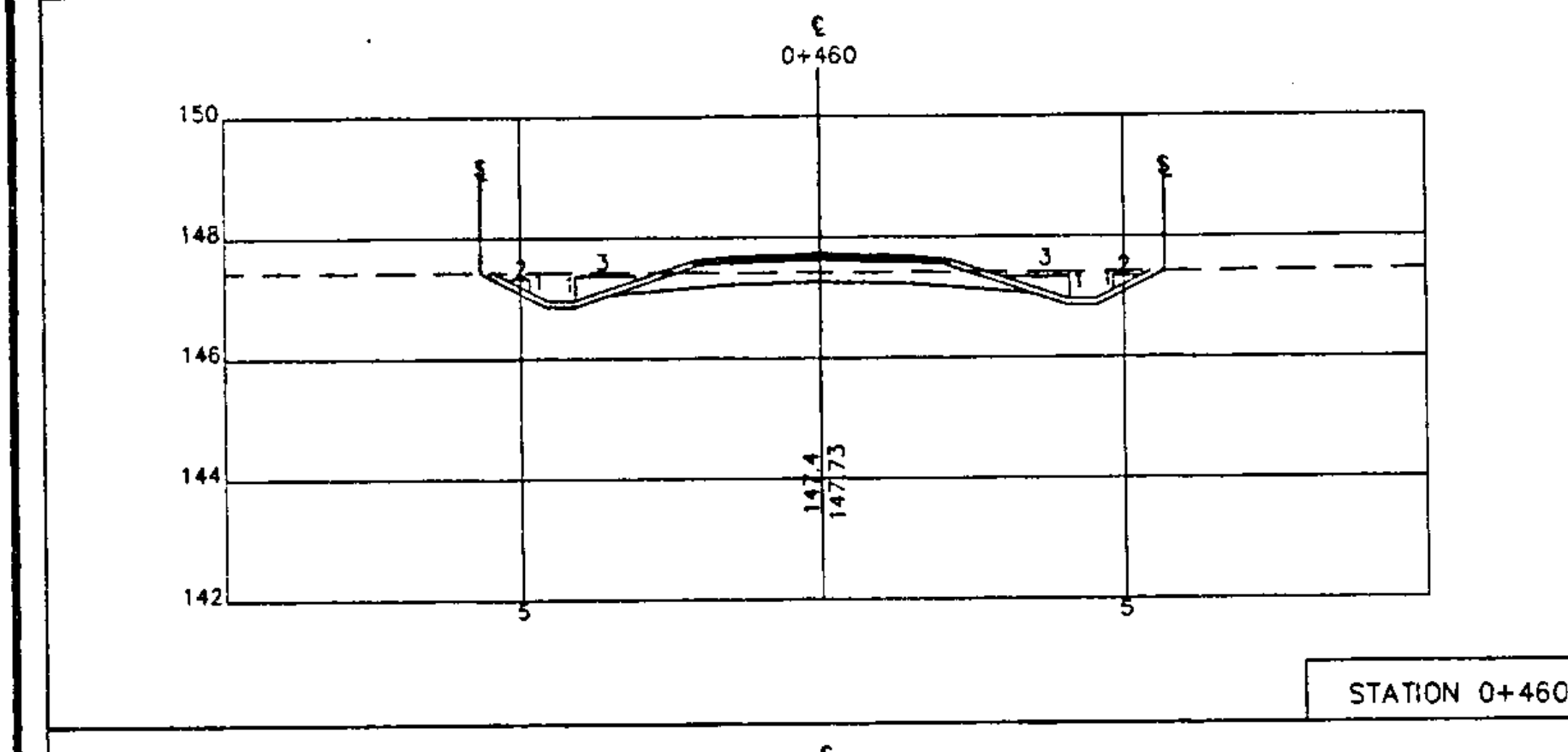
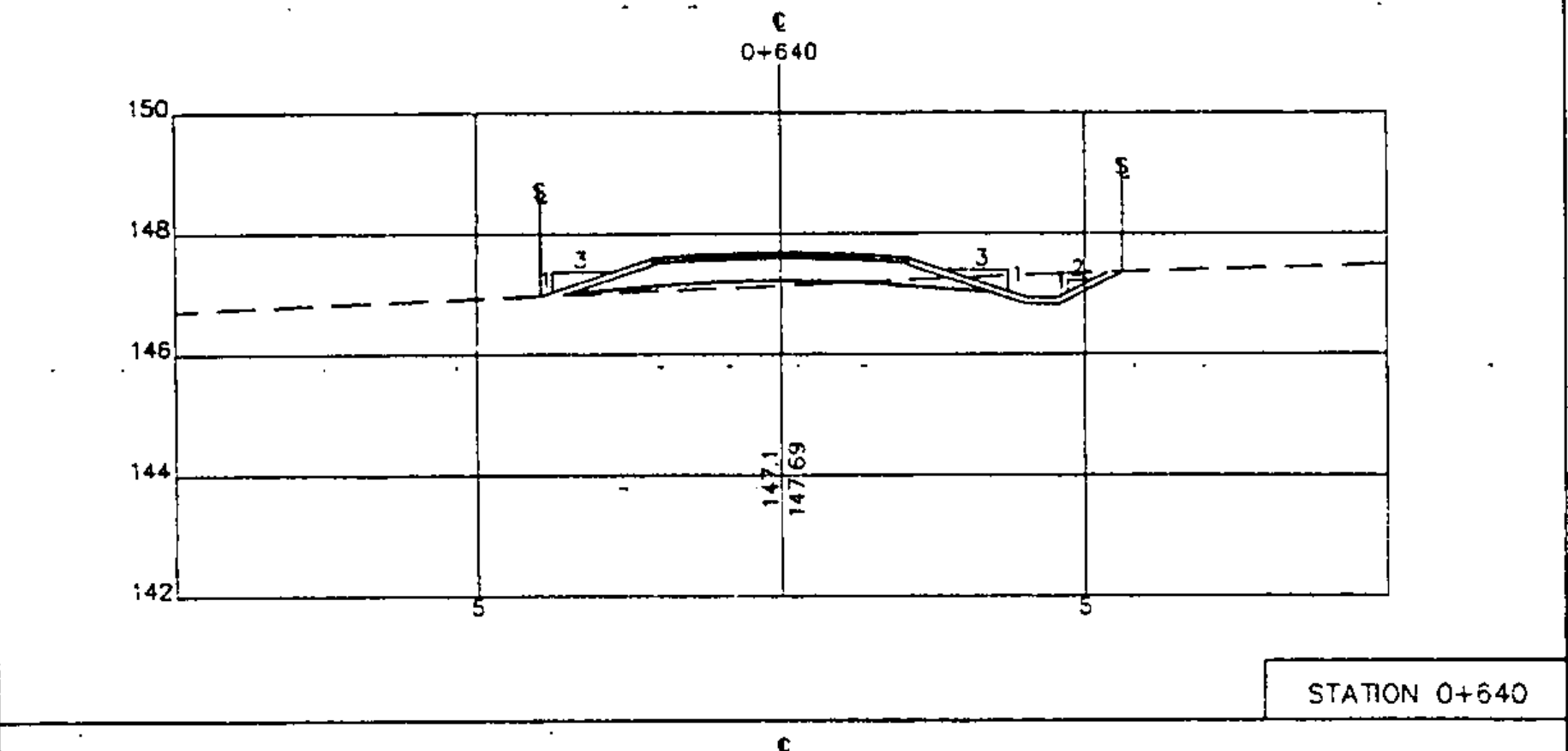
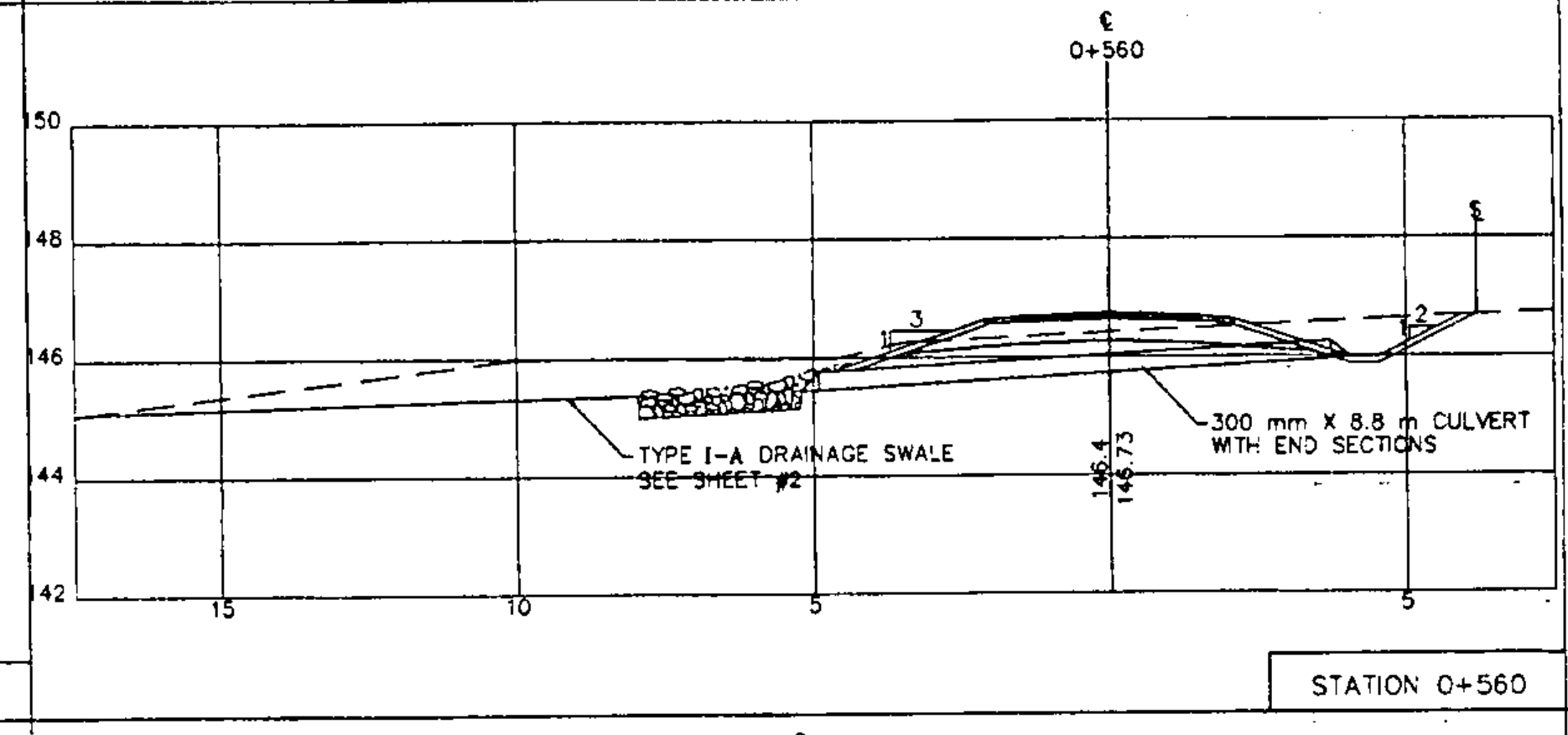
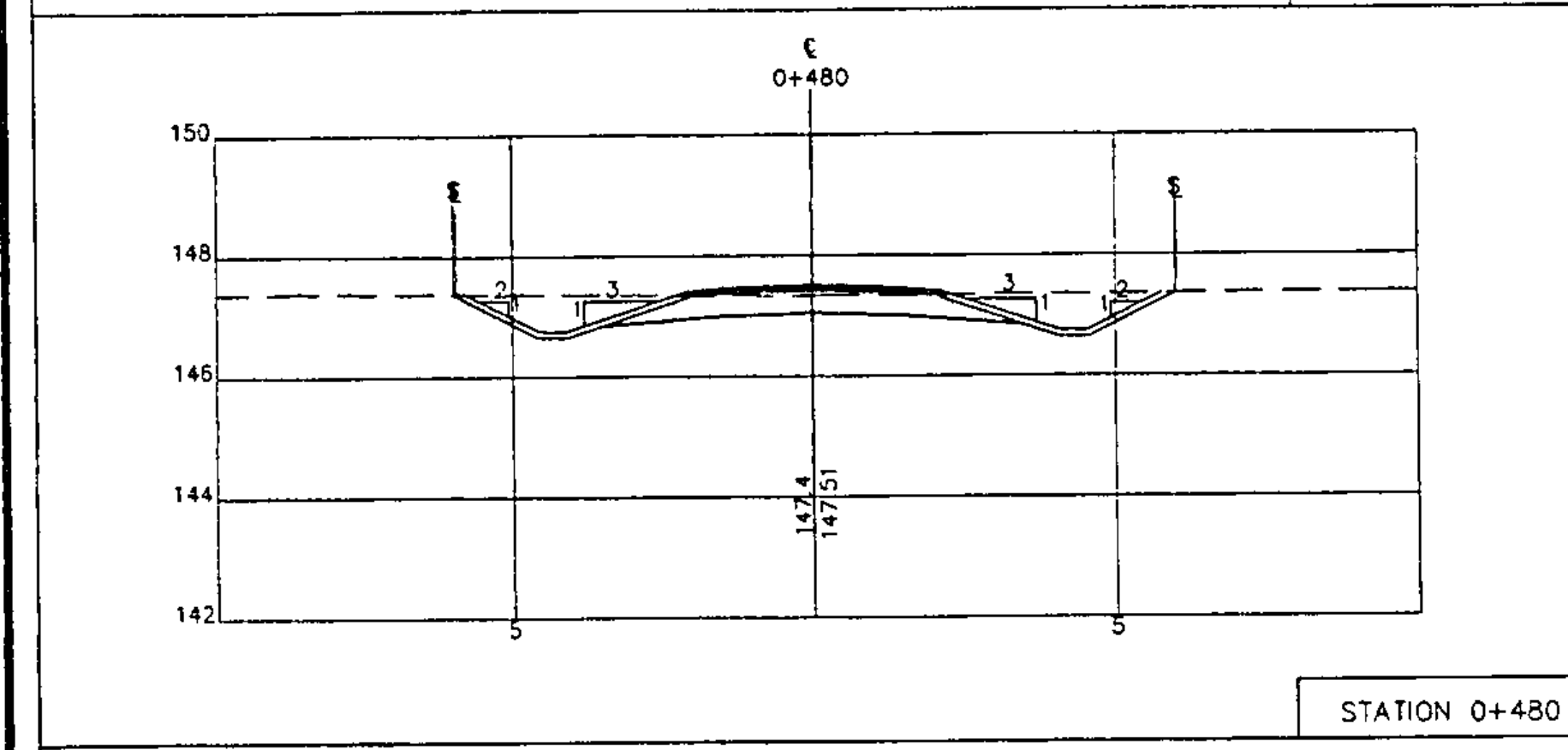
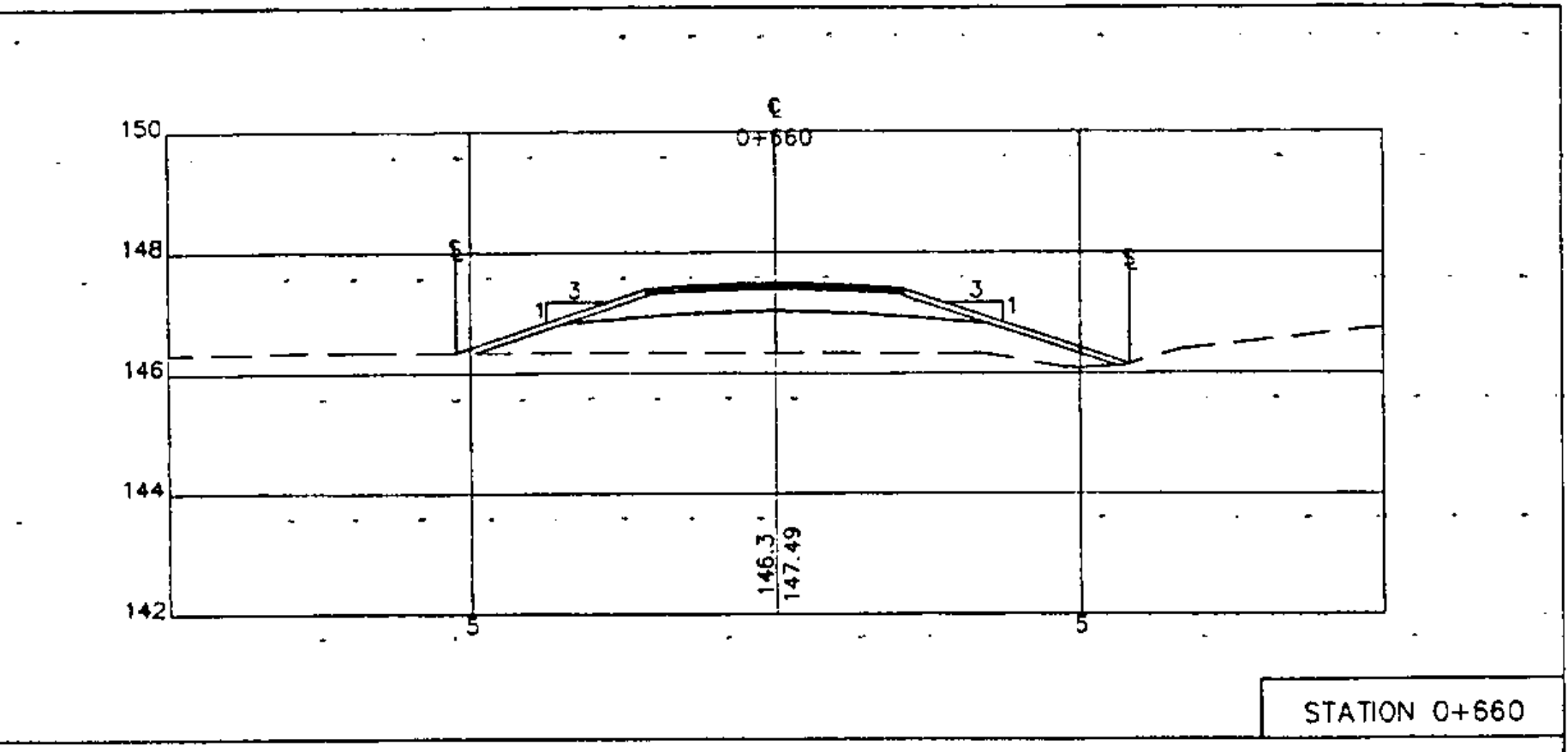
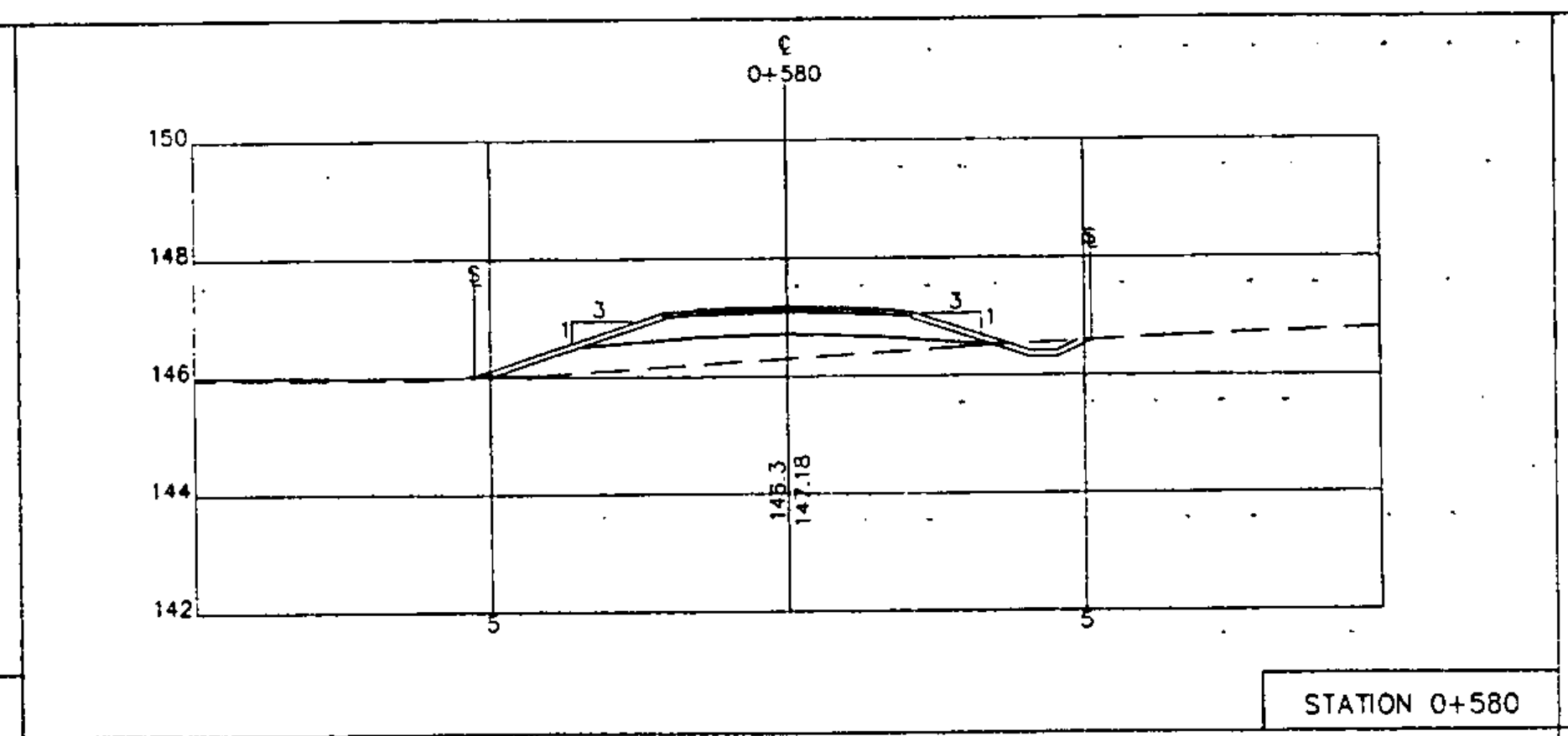
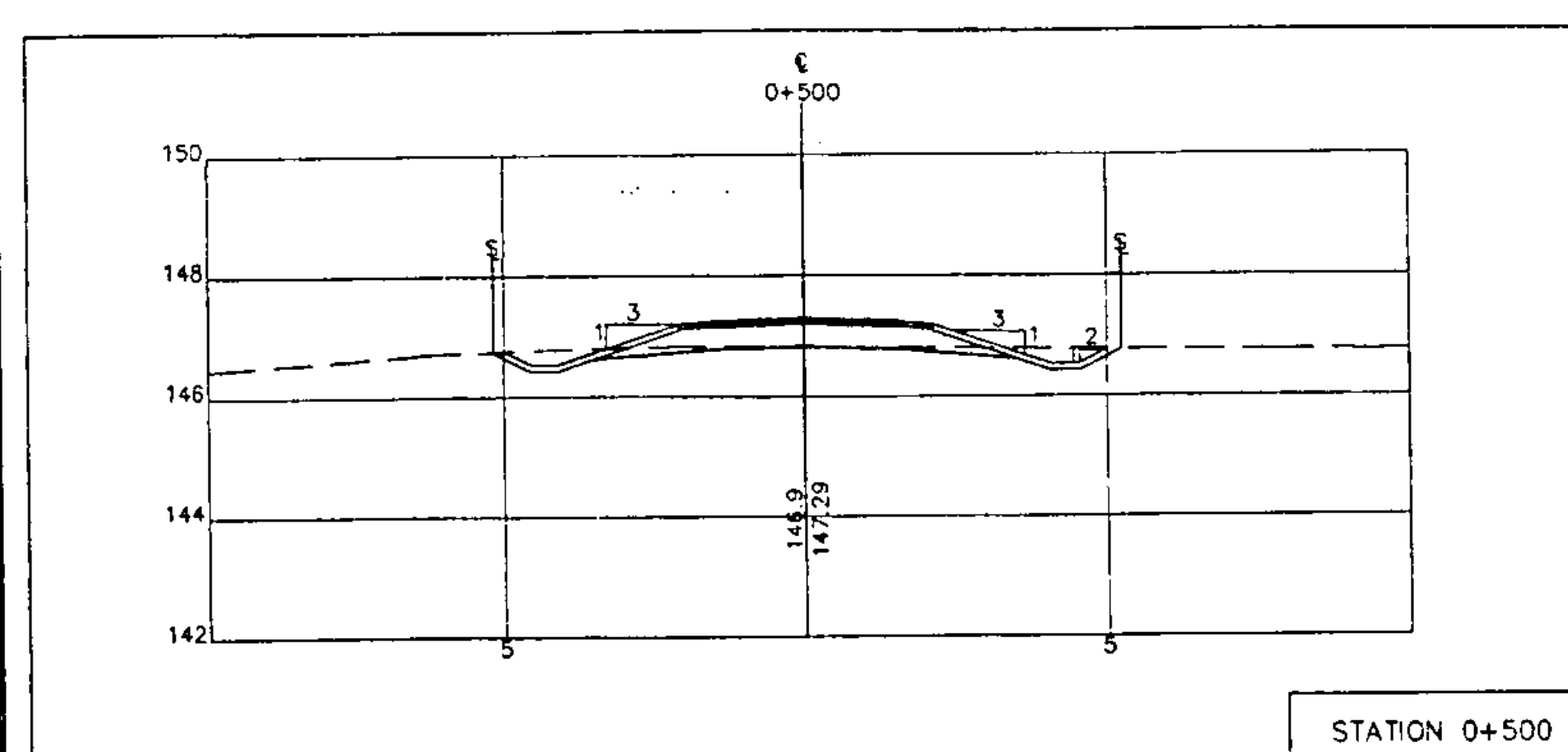


WILLISTON BIKE PATH

JOB #: 93-064 STP BIKE (9)

DRAWING #:

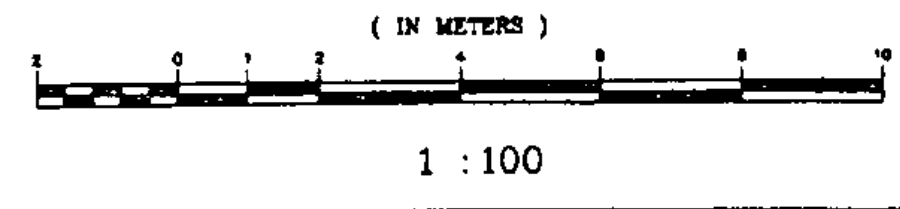
15 OF 36



LEGEND

— SLOPE RIGHTS AND CLEARING LIMITS
 - - - - - EXISTING GROUND

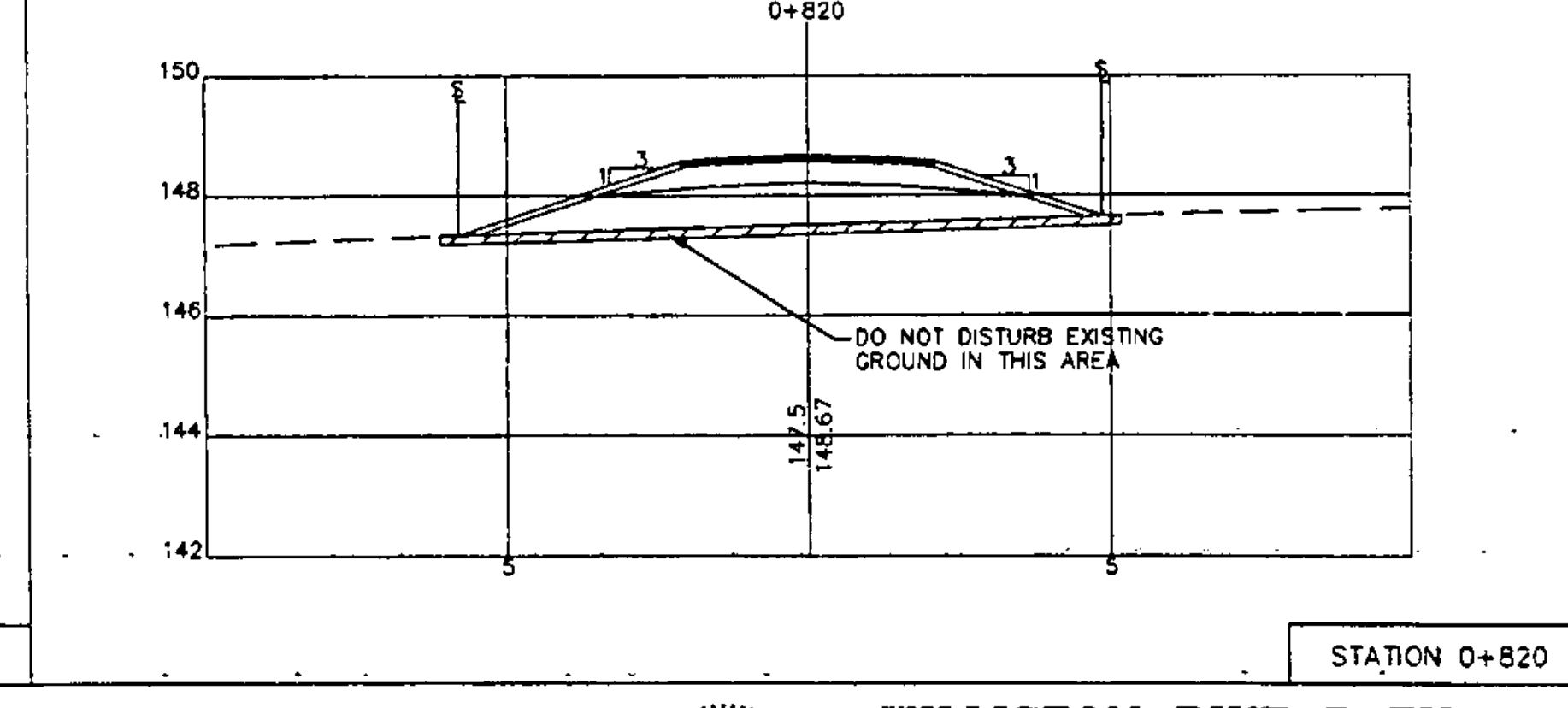
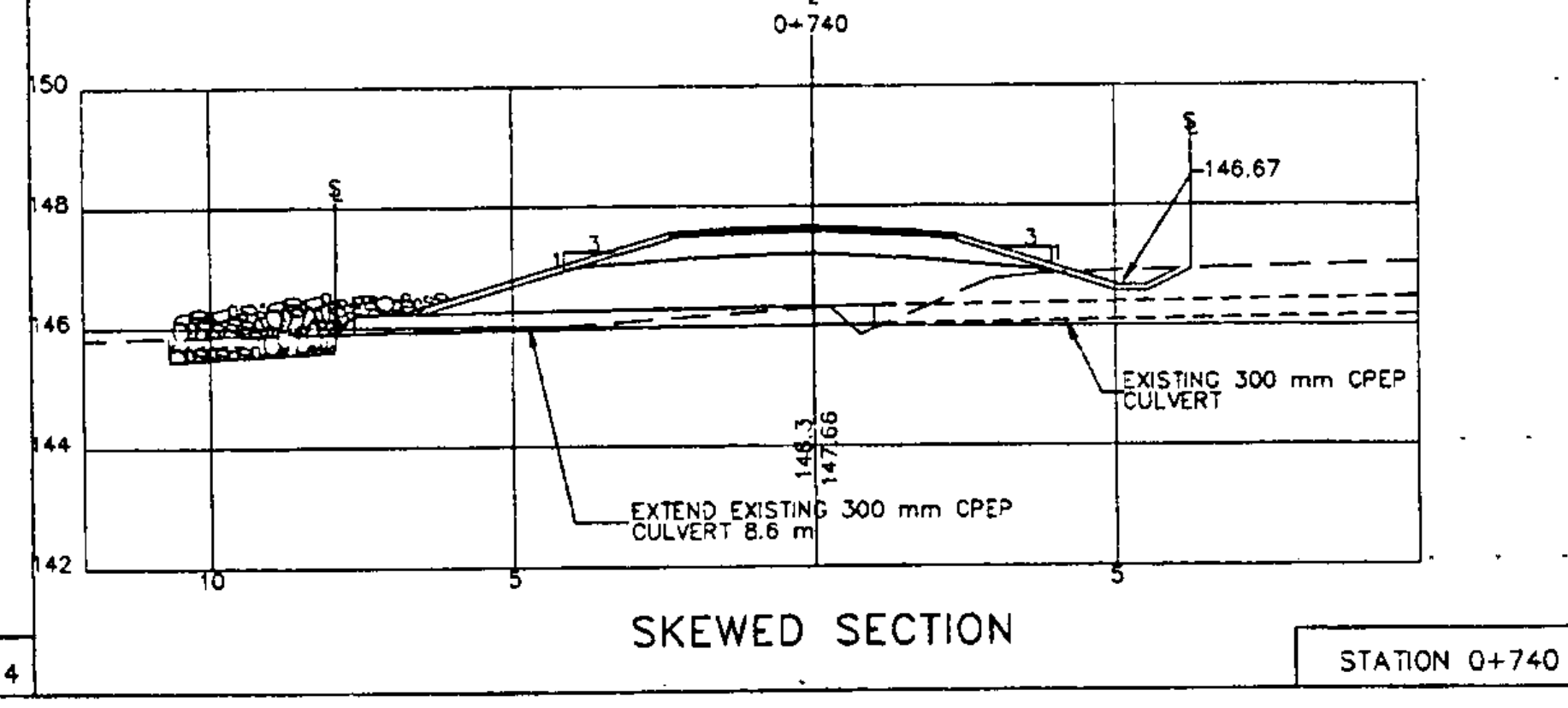
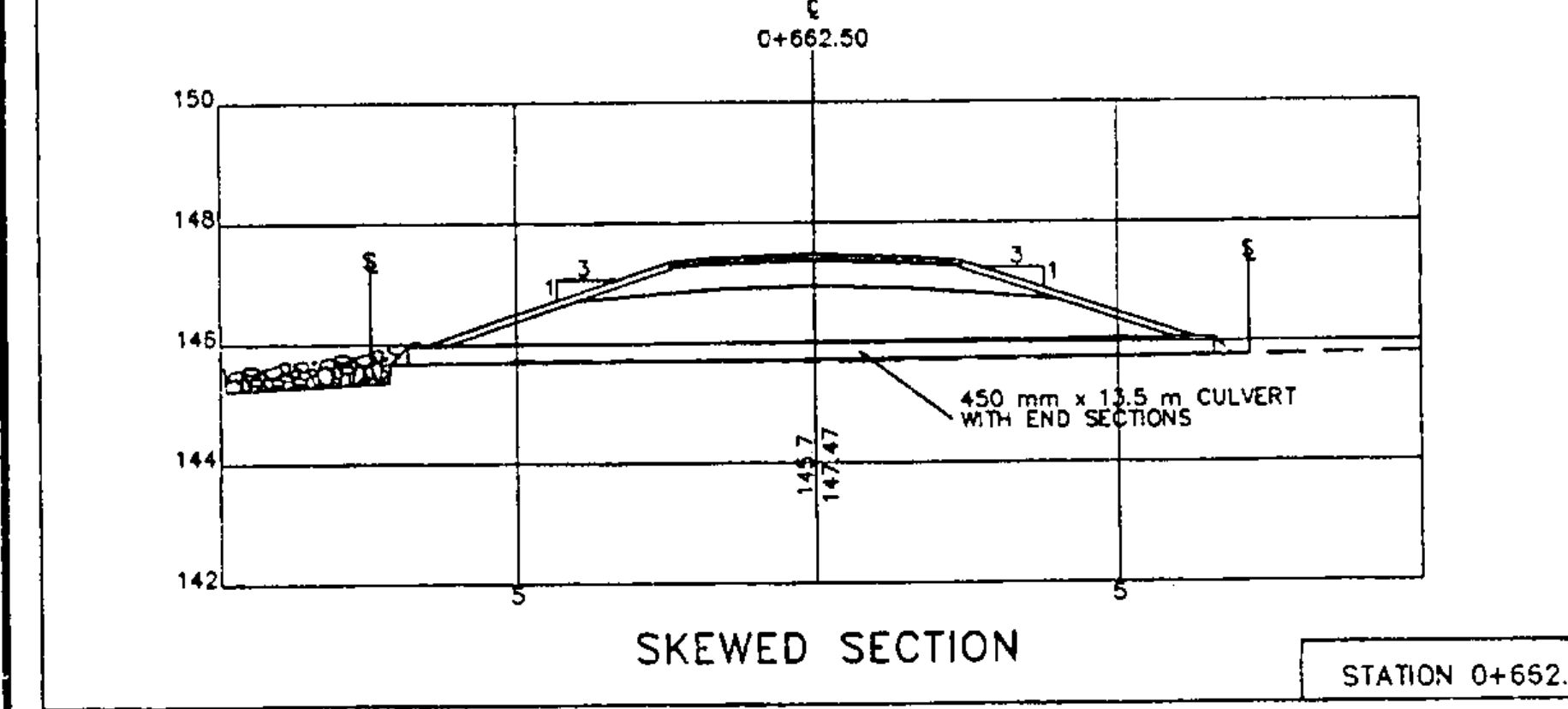
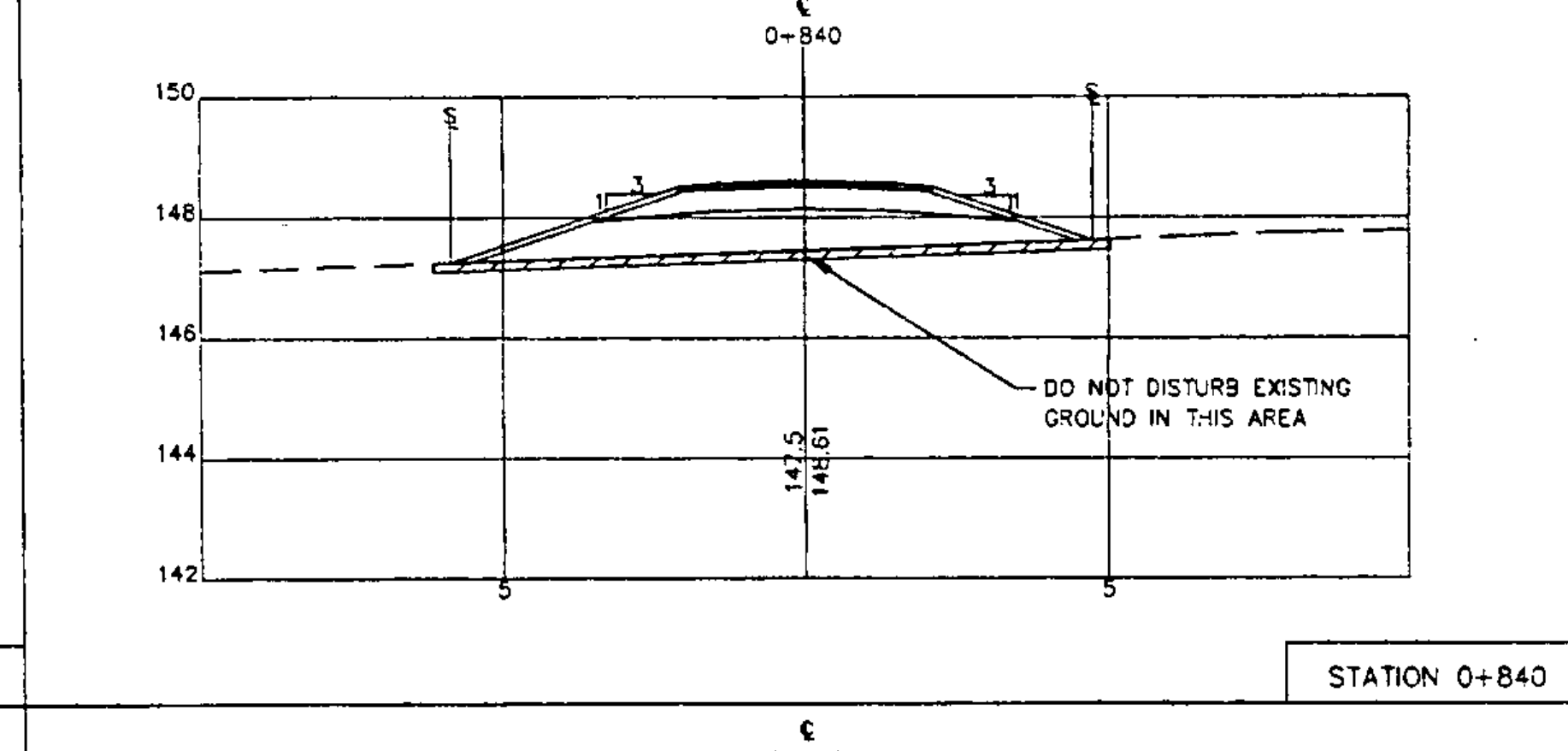
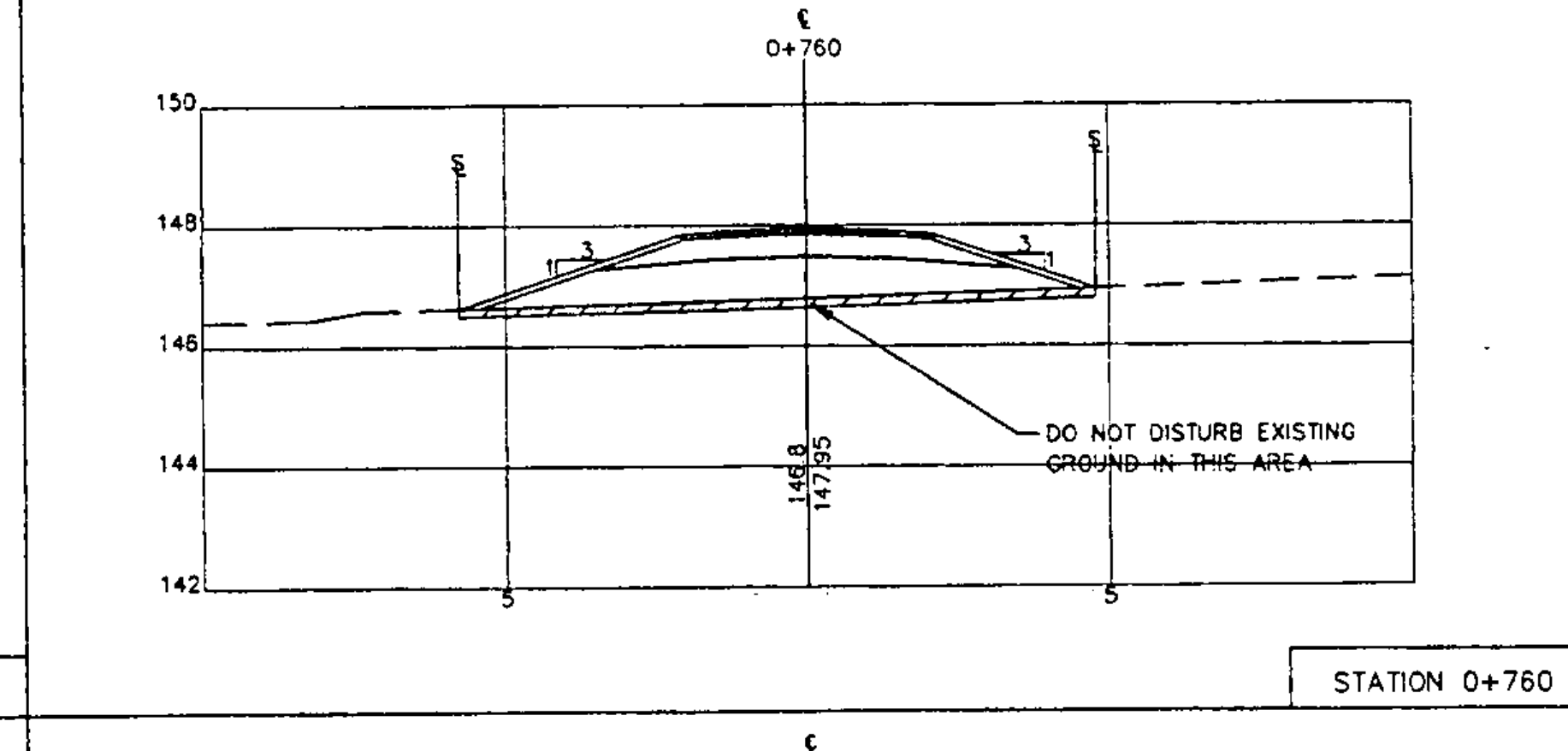
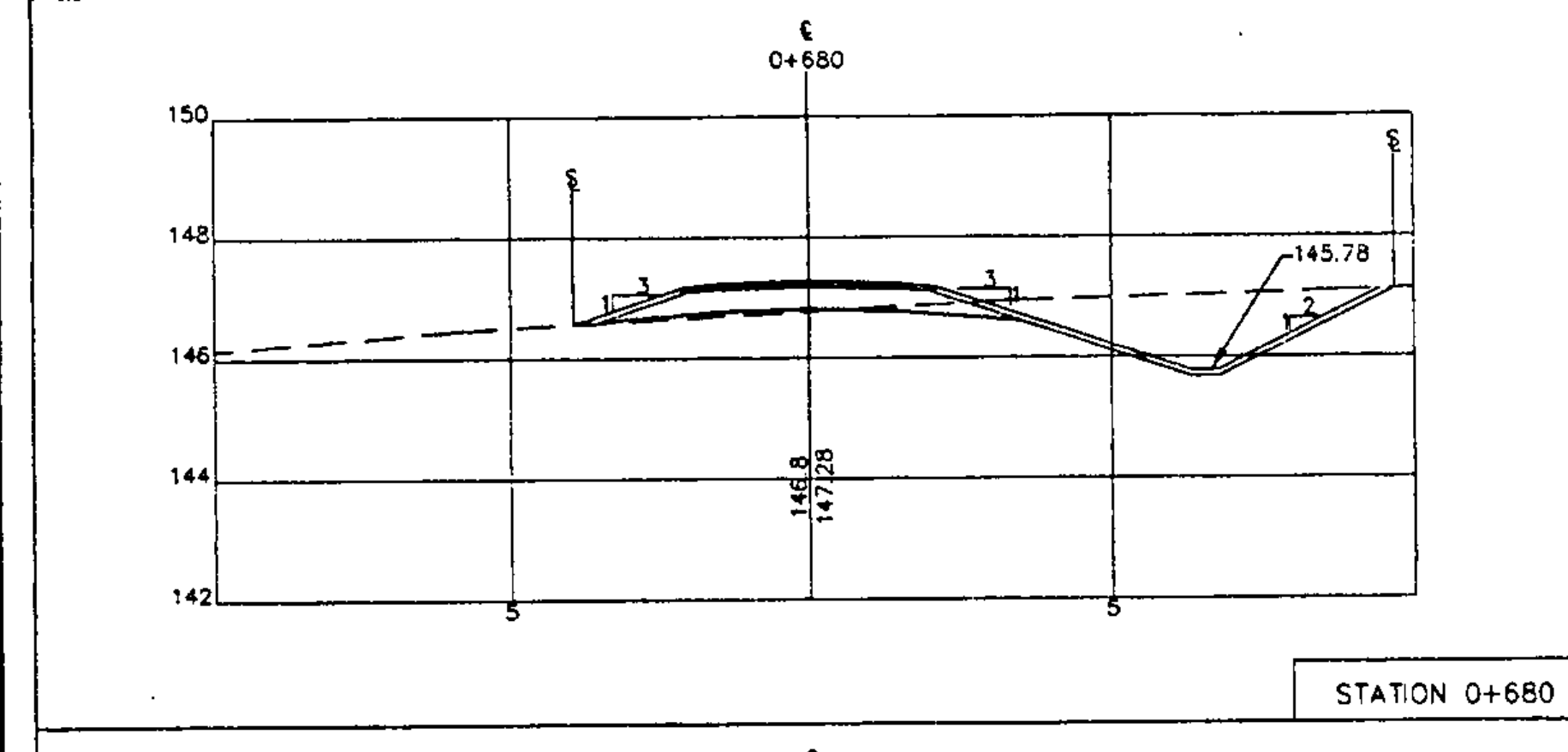
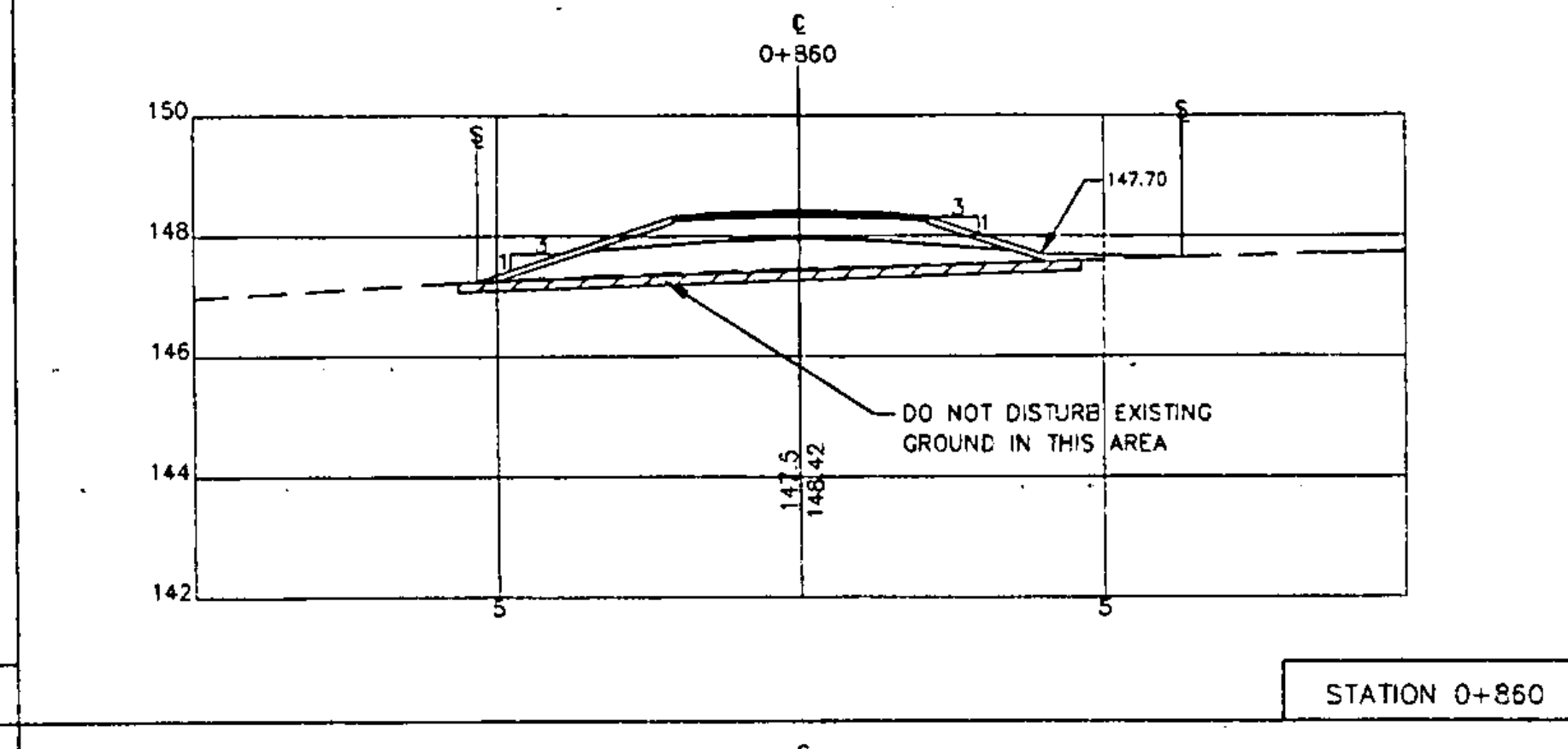
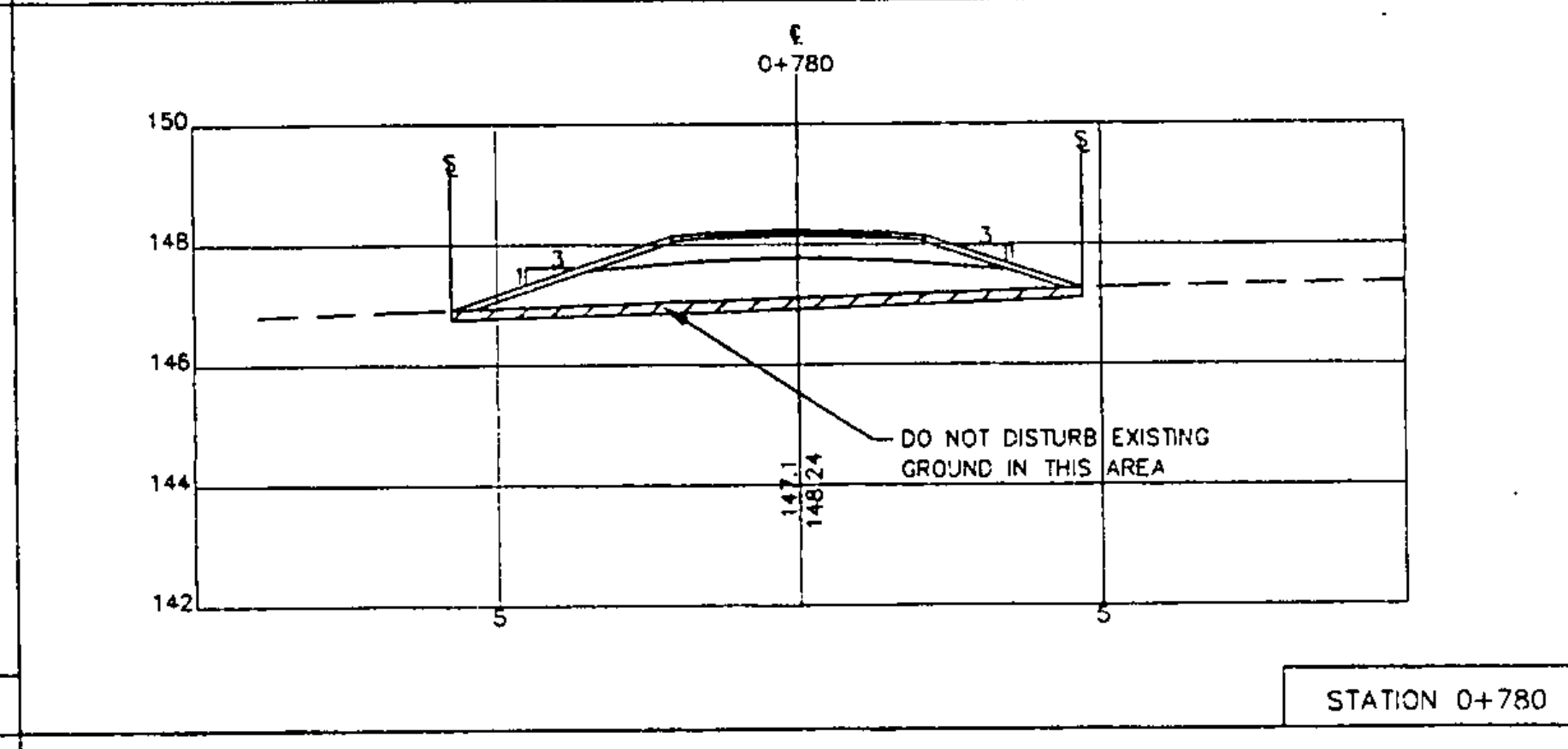
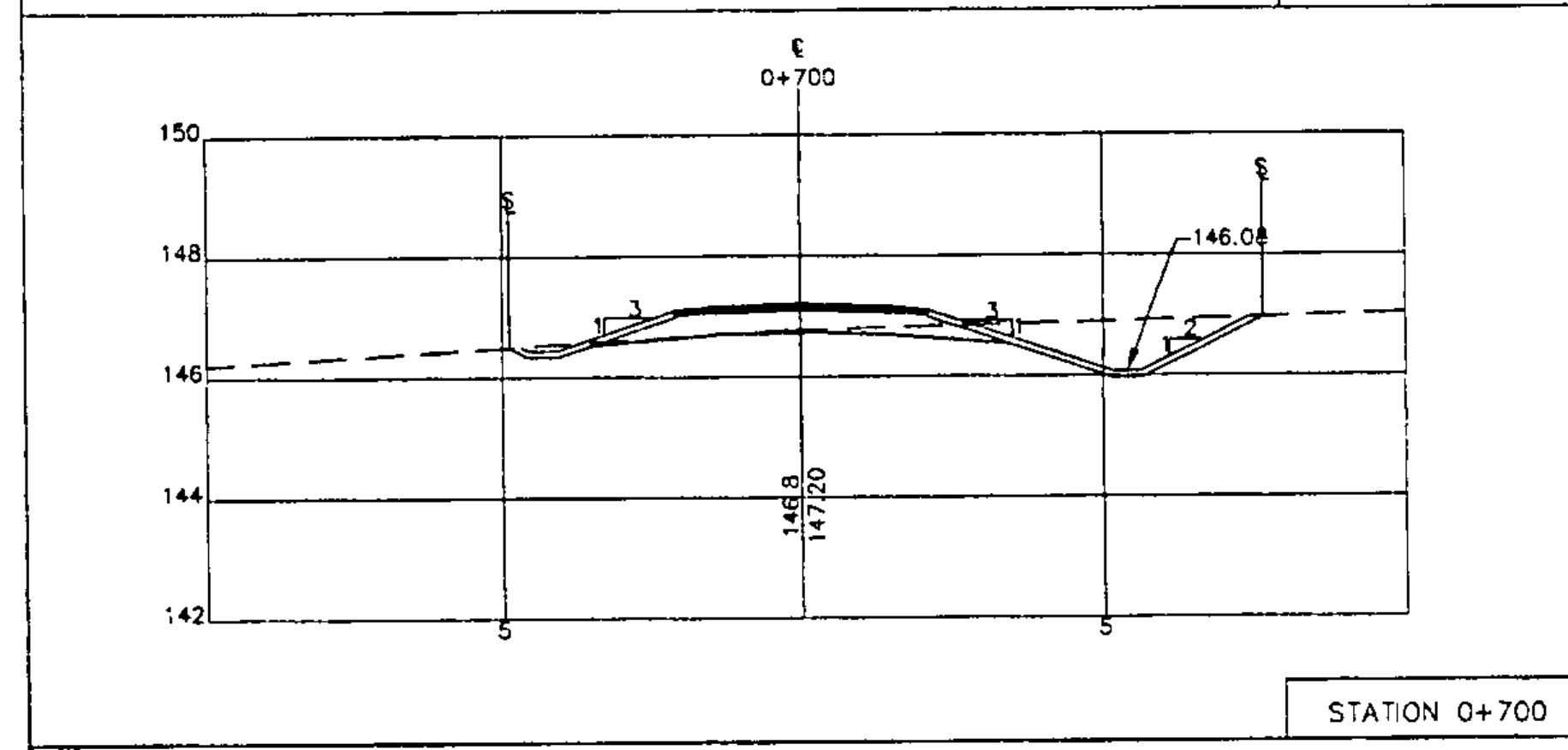
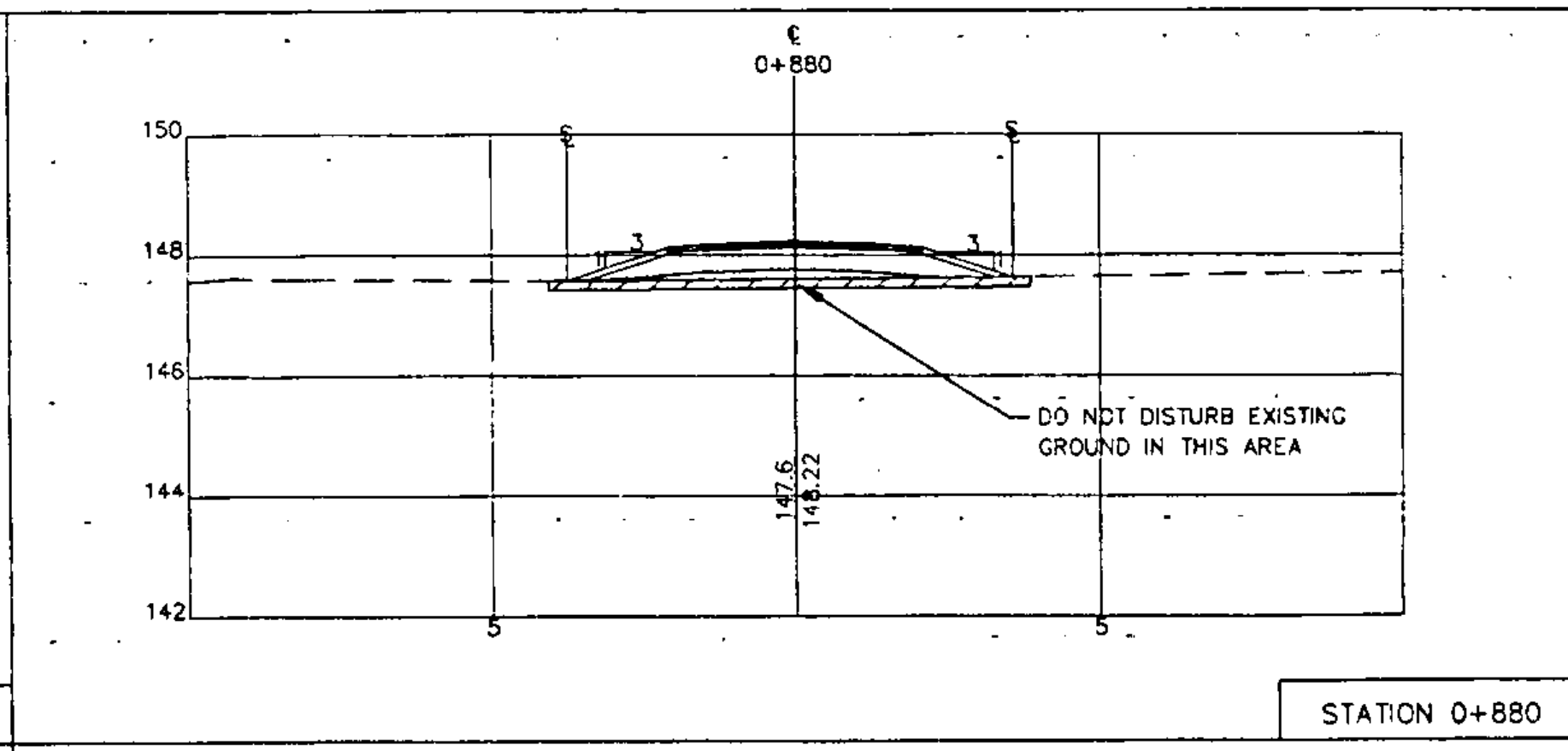
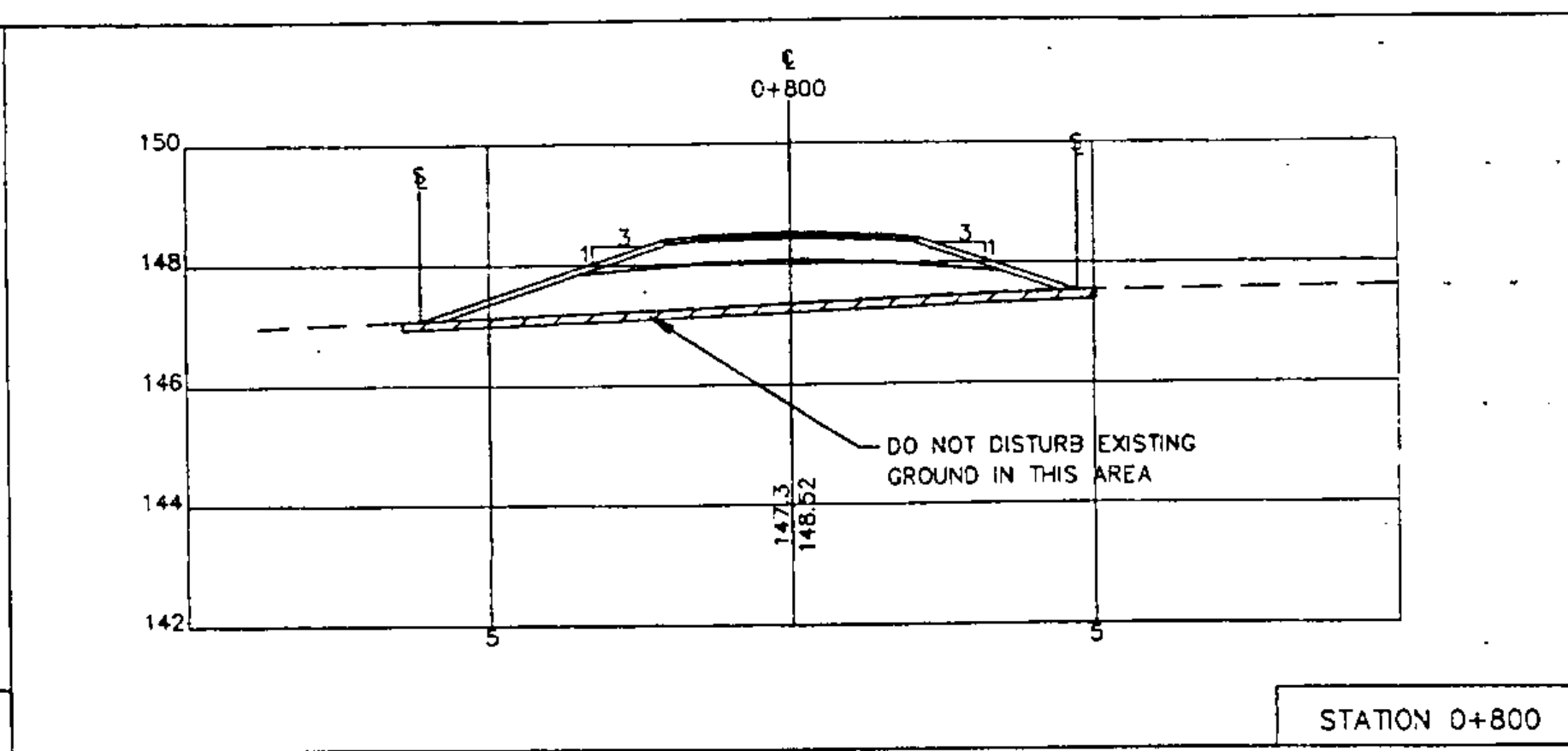
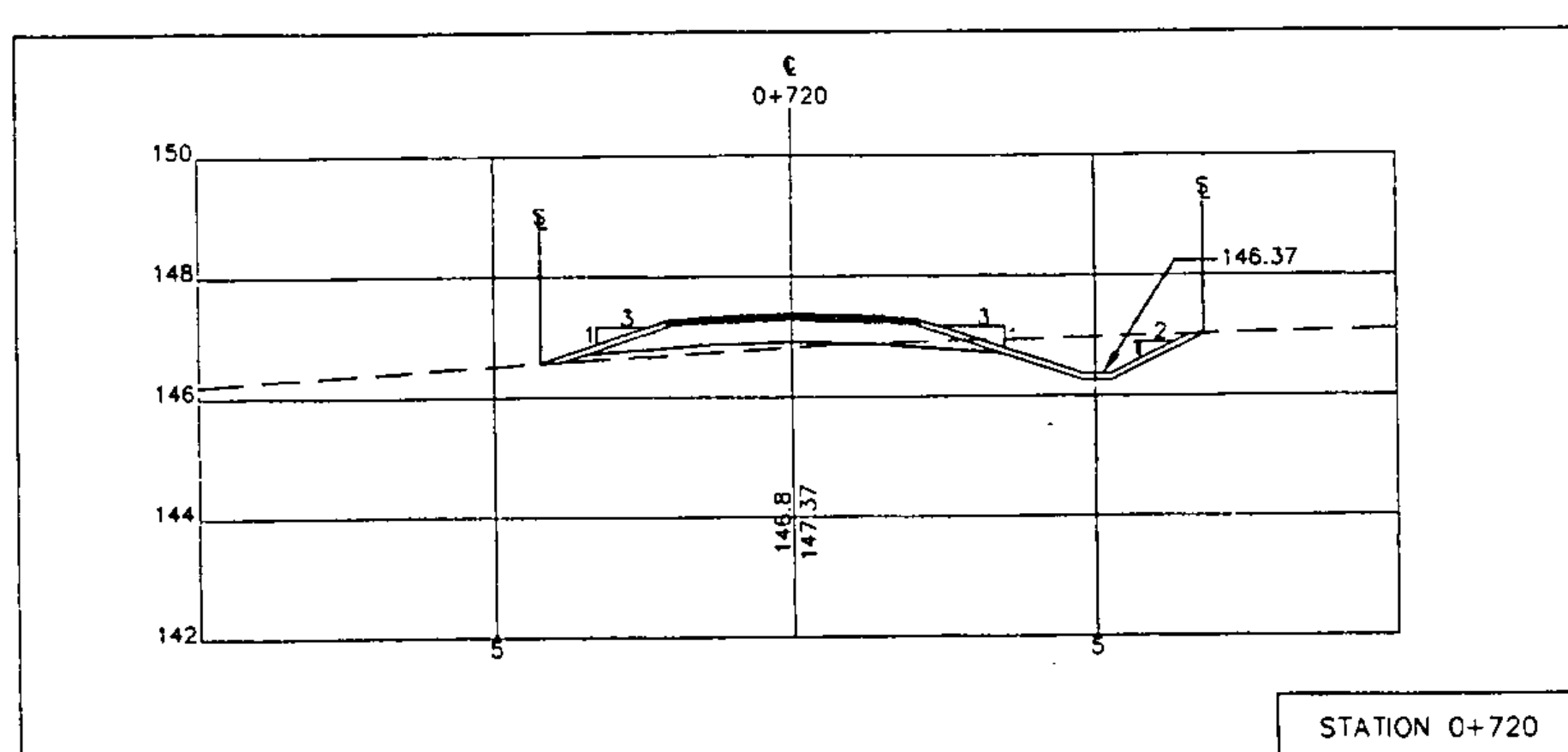
GRAPHIC SCALE



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WILLISTON BIKE PATH
 JOB #: 93-064 STP BIKE (9)
 DRAWING #:
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LEGEND

— SLOPE RIGHTS AND CLEARING LIMITS

- - - EXISTING GROUND

GRAPHIC SCALE

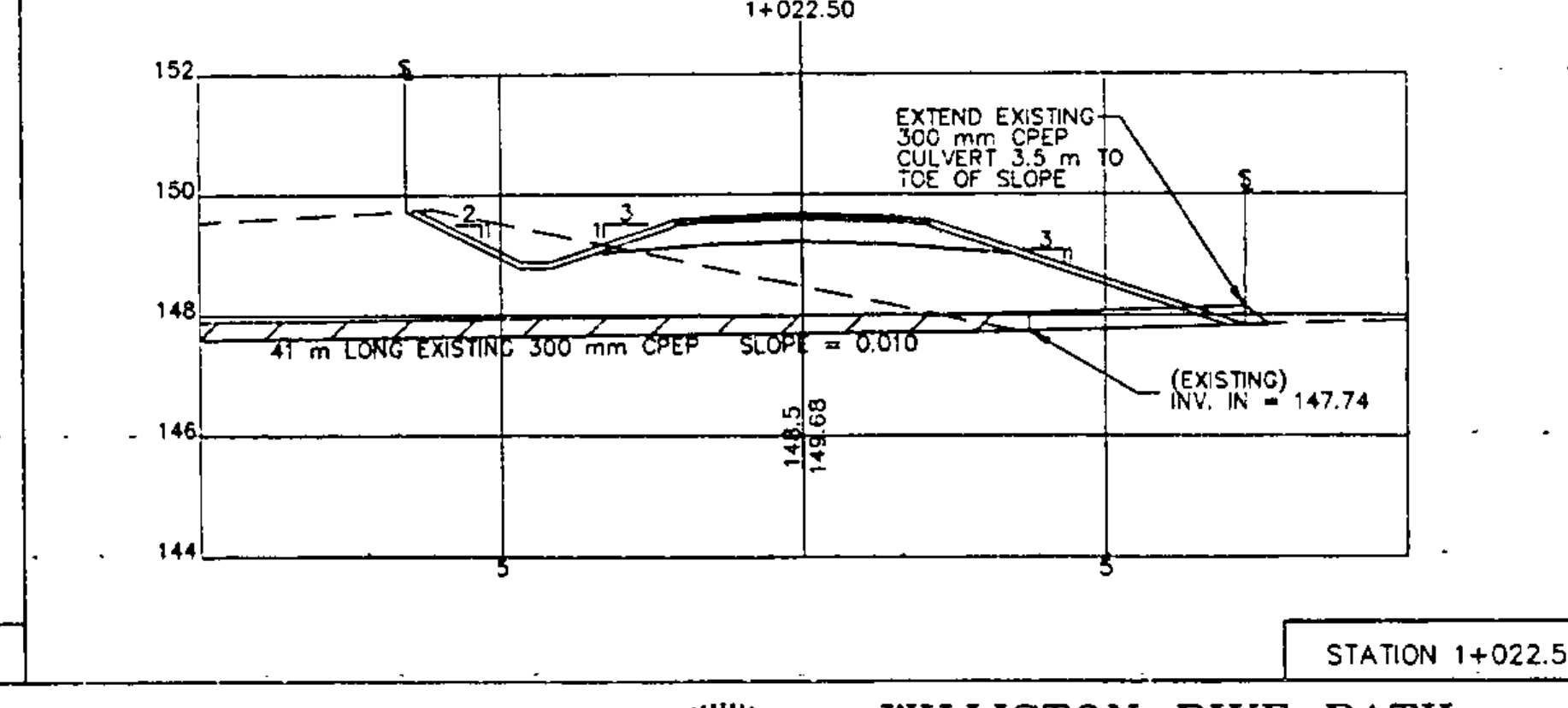
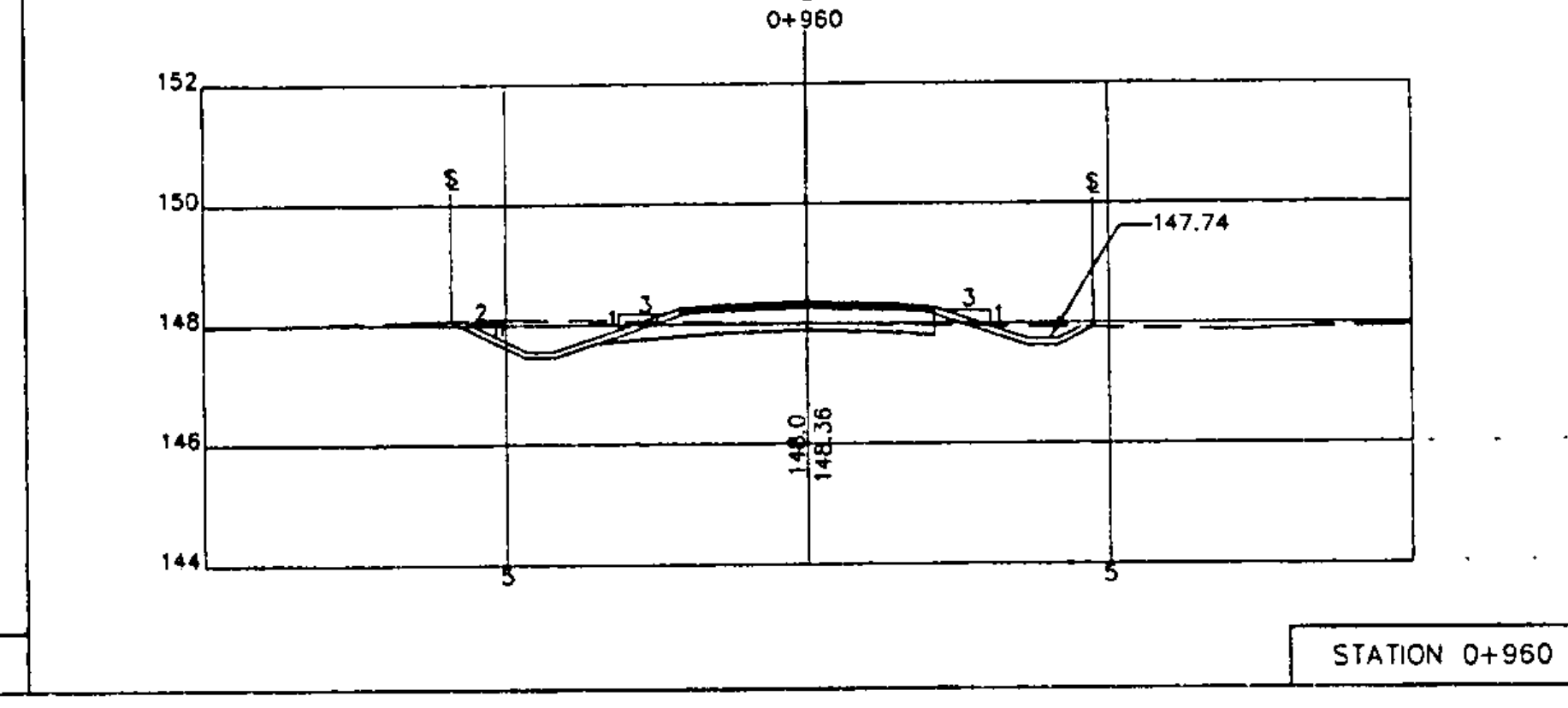
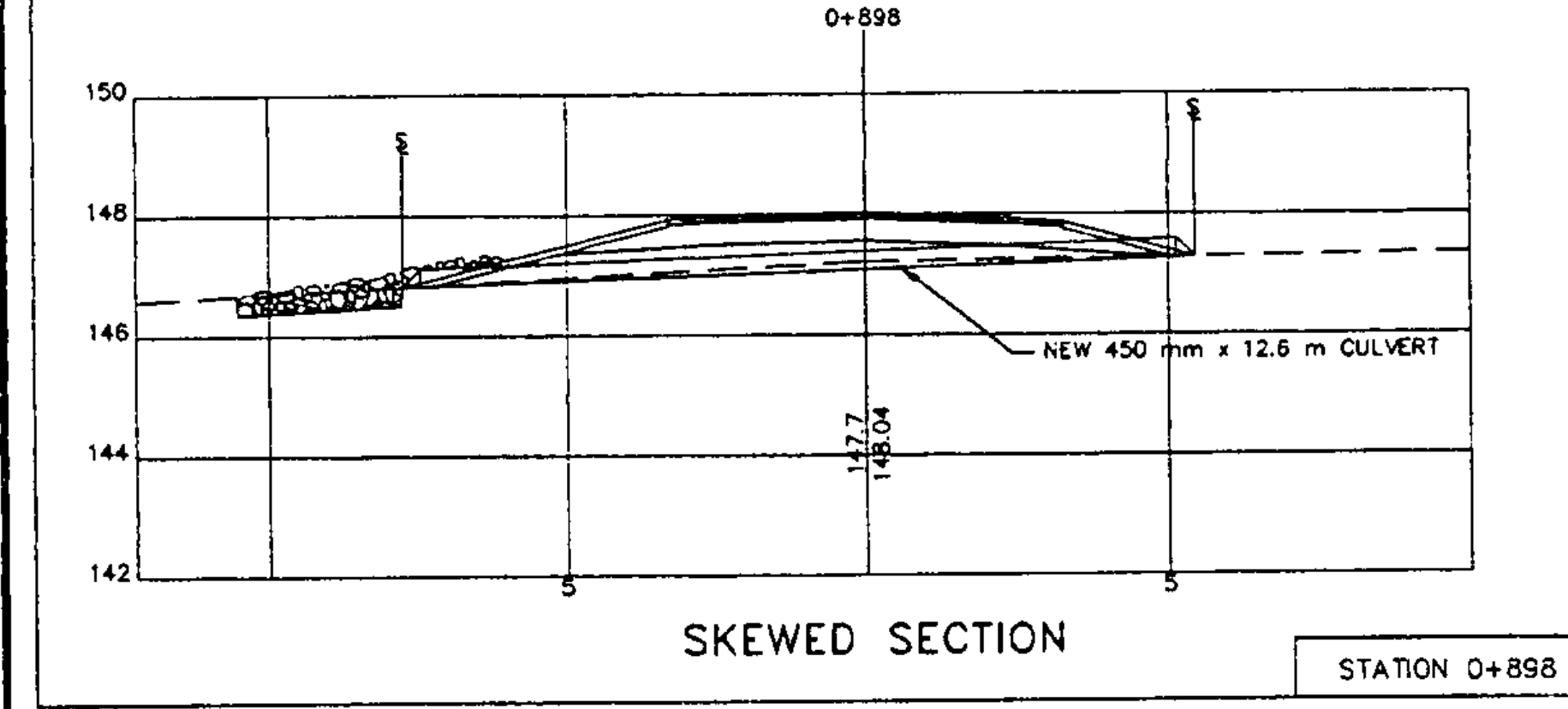
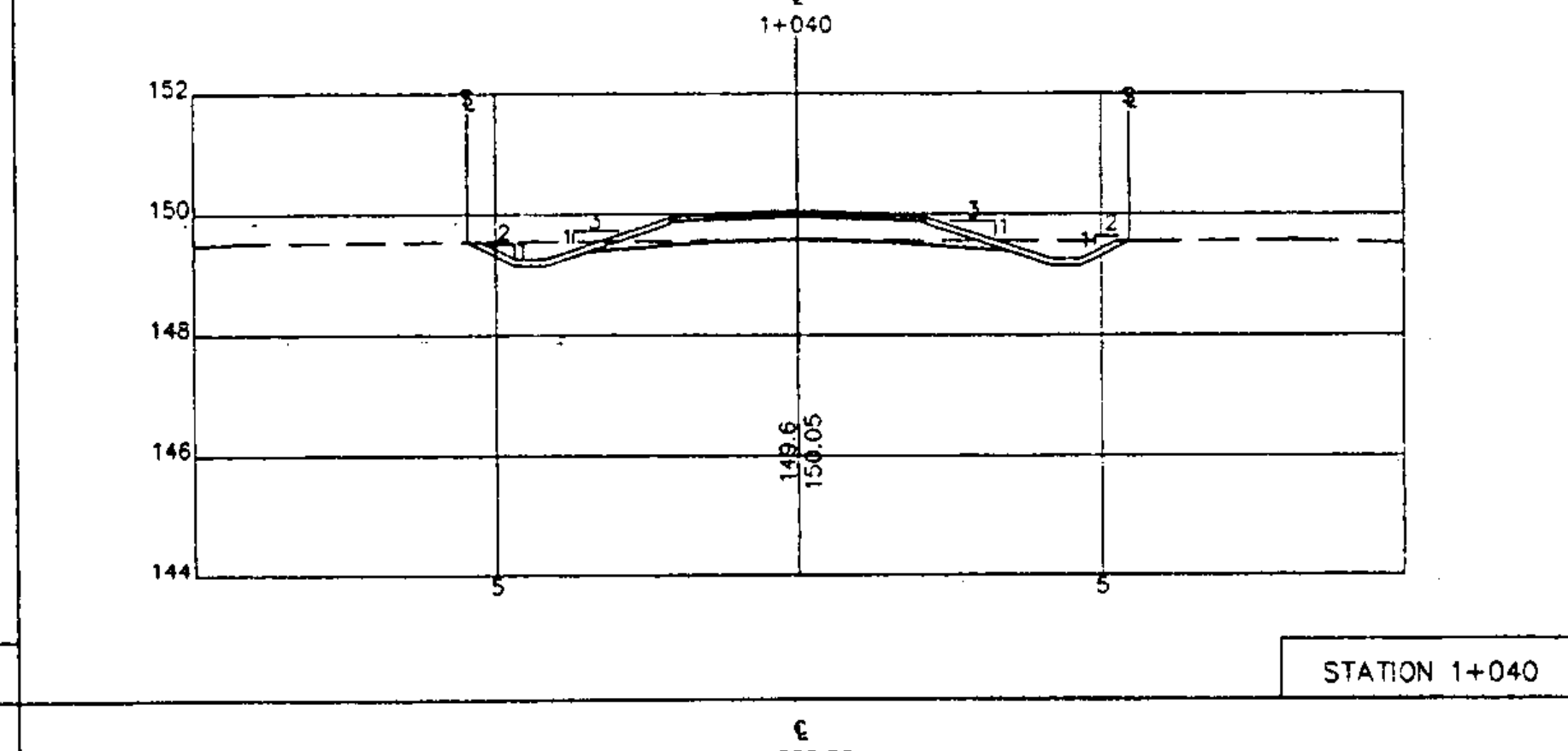
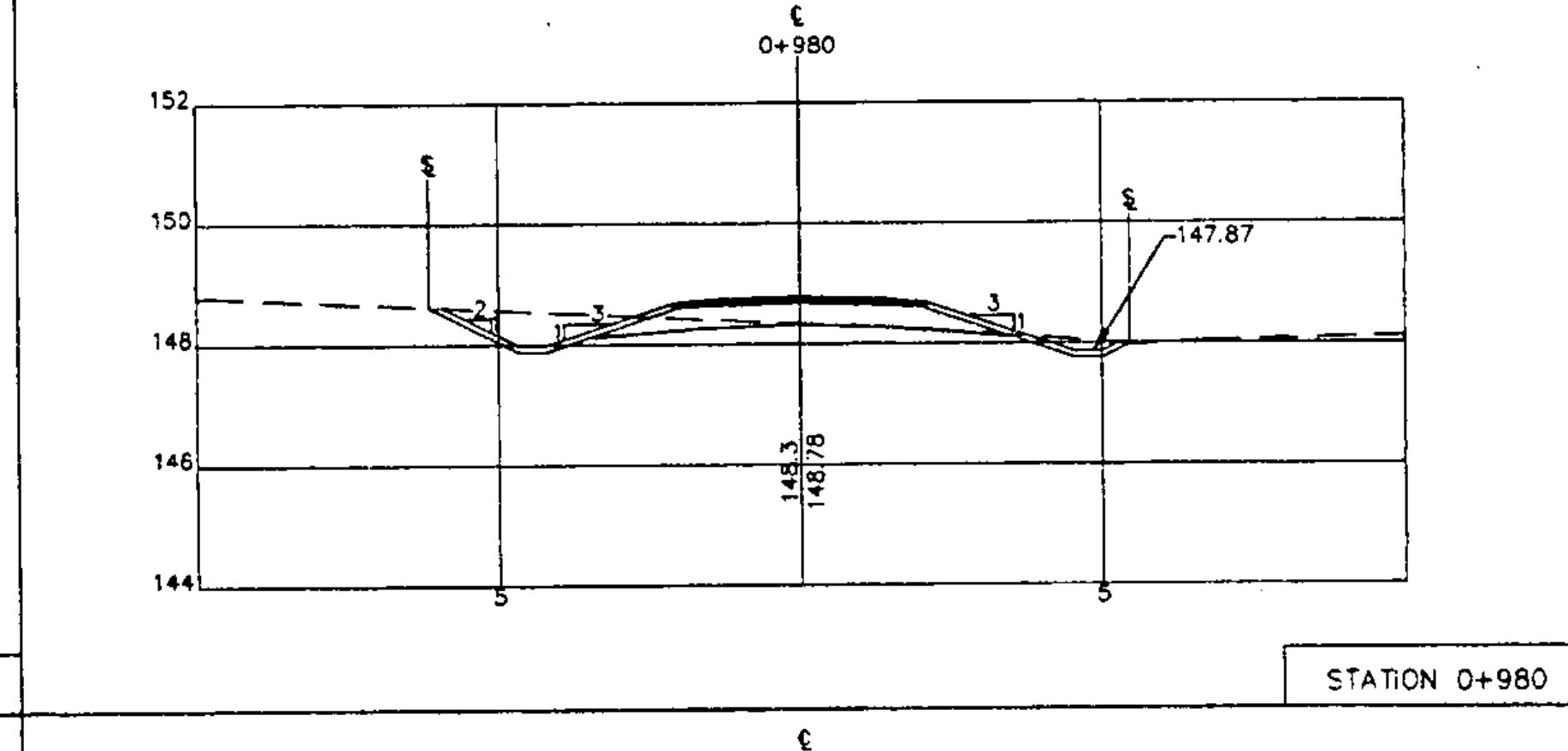
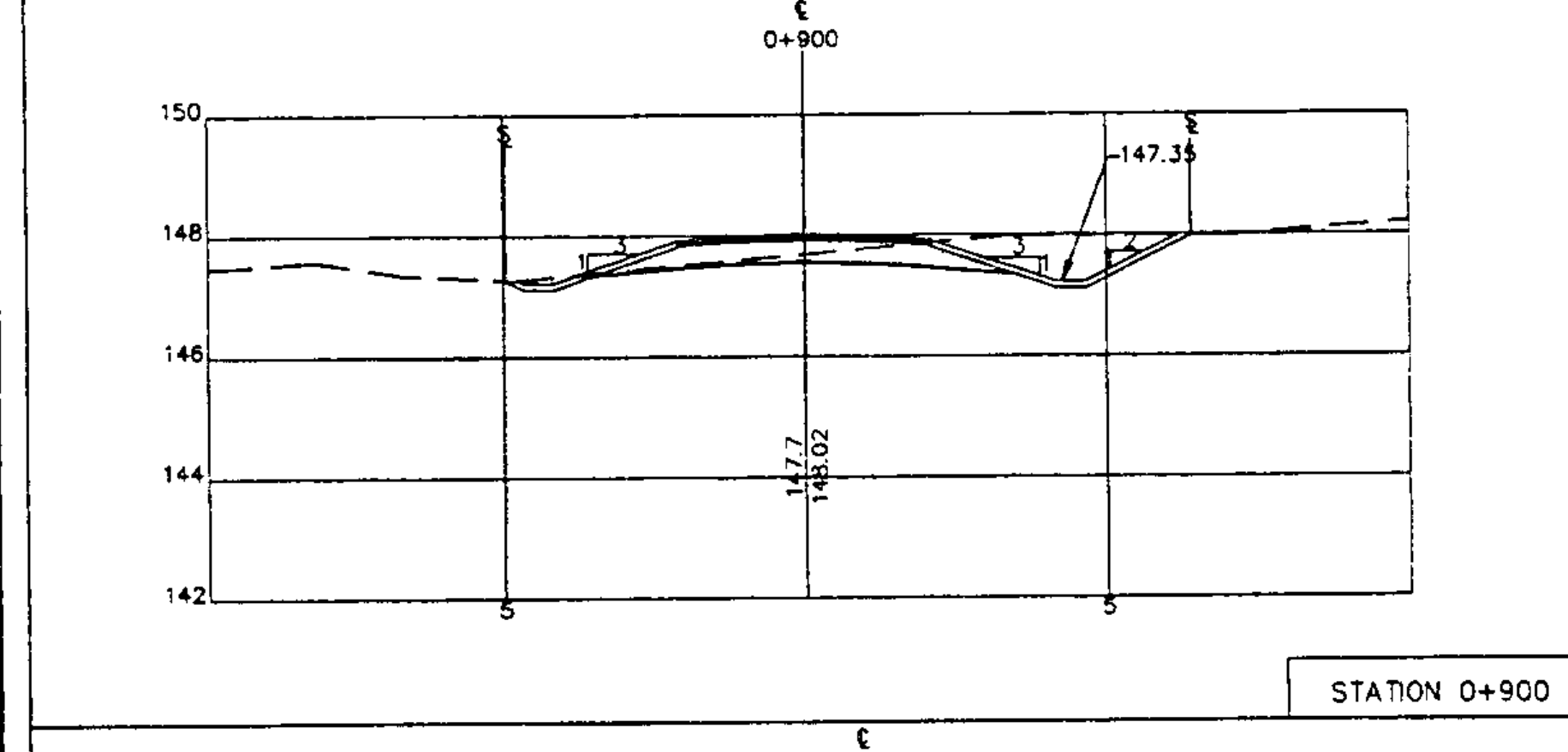
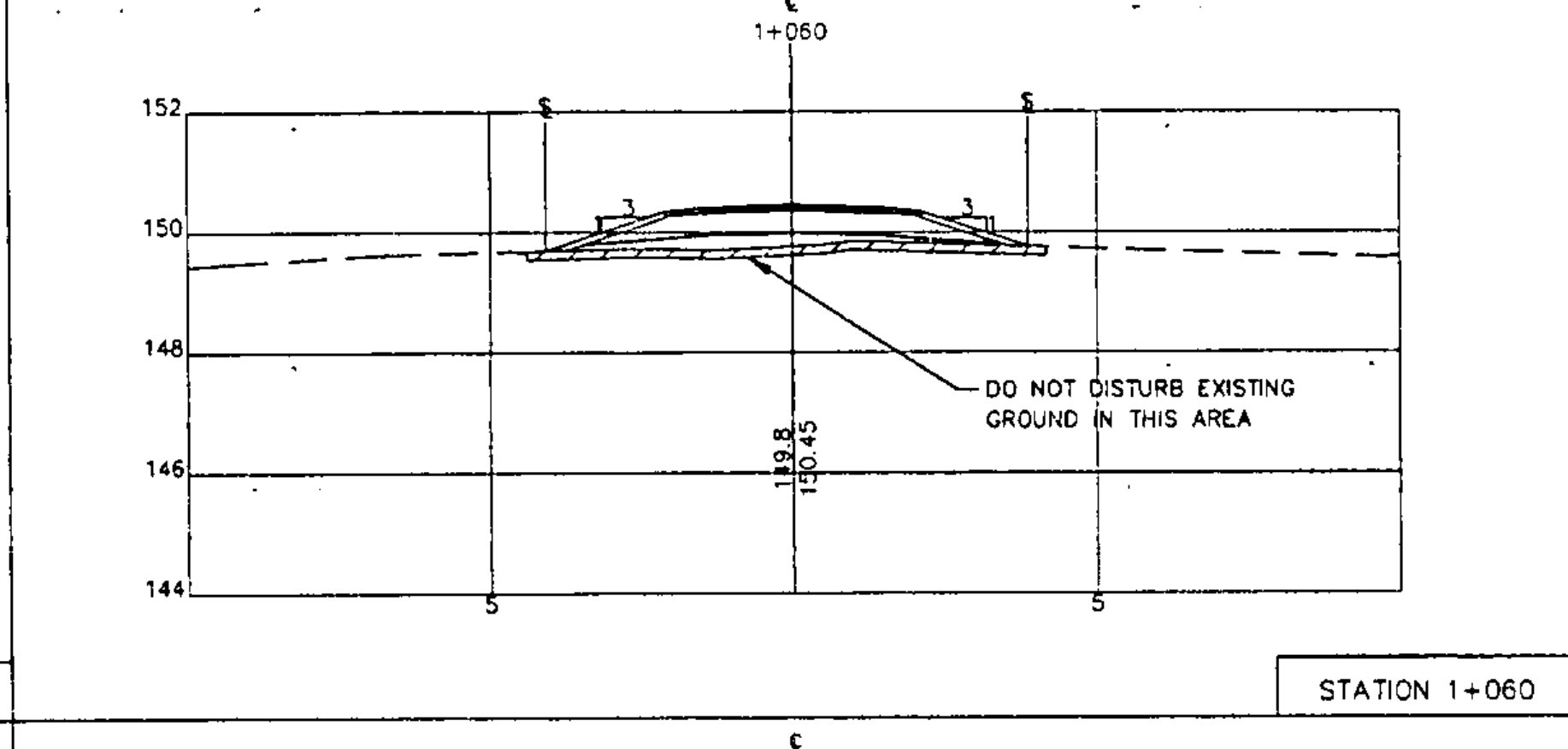
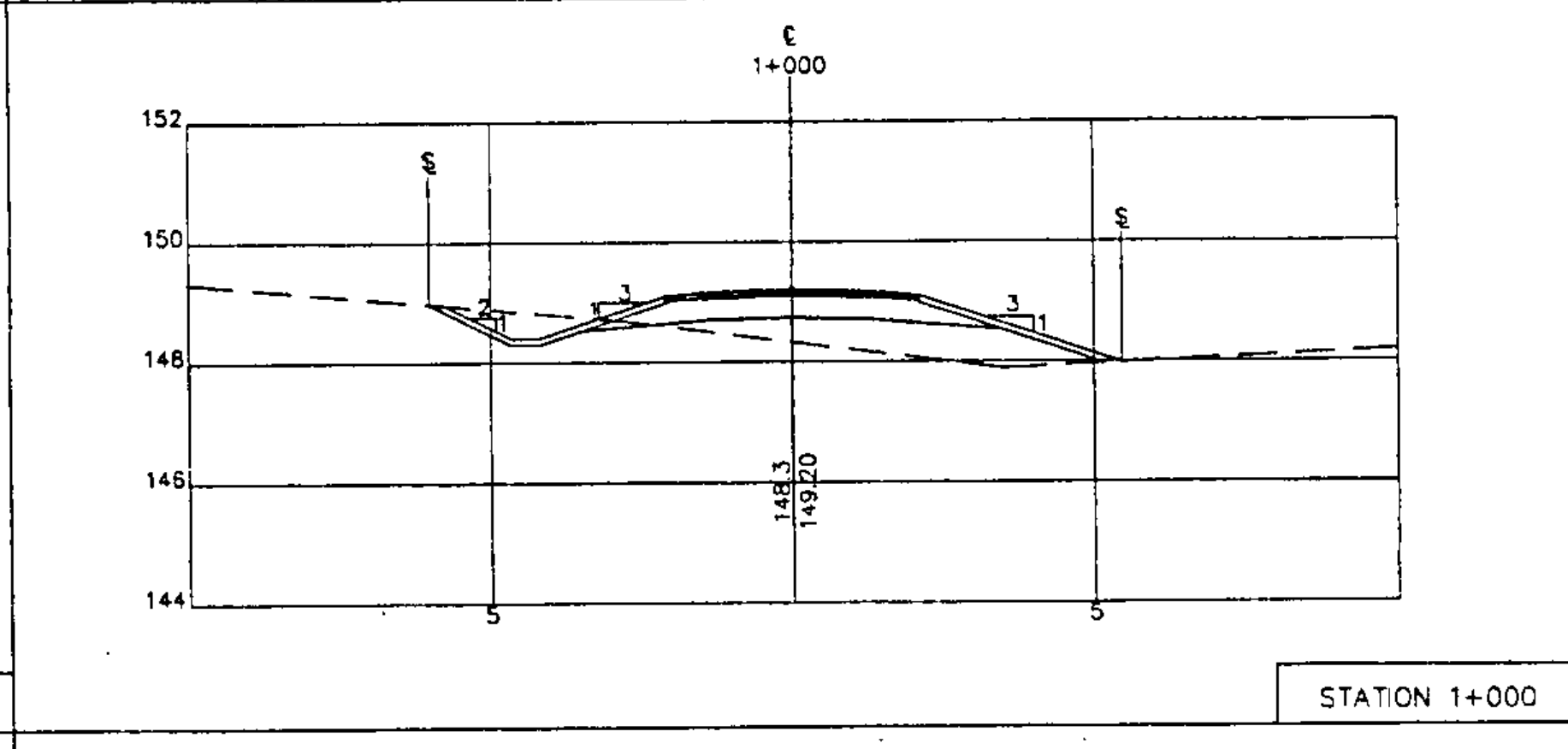
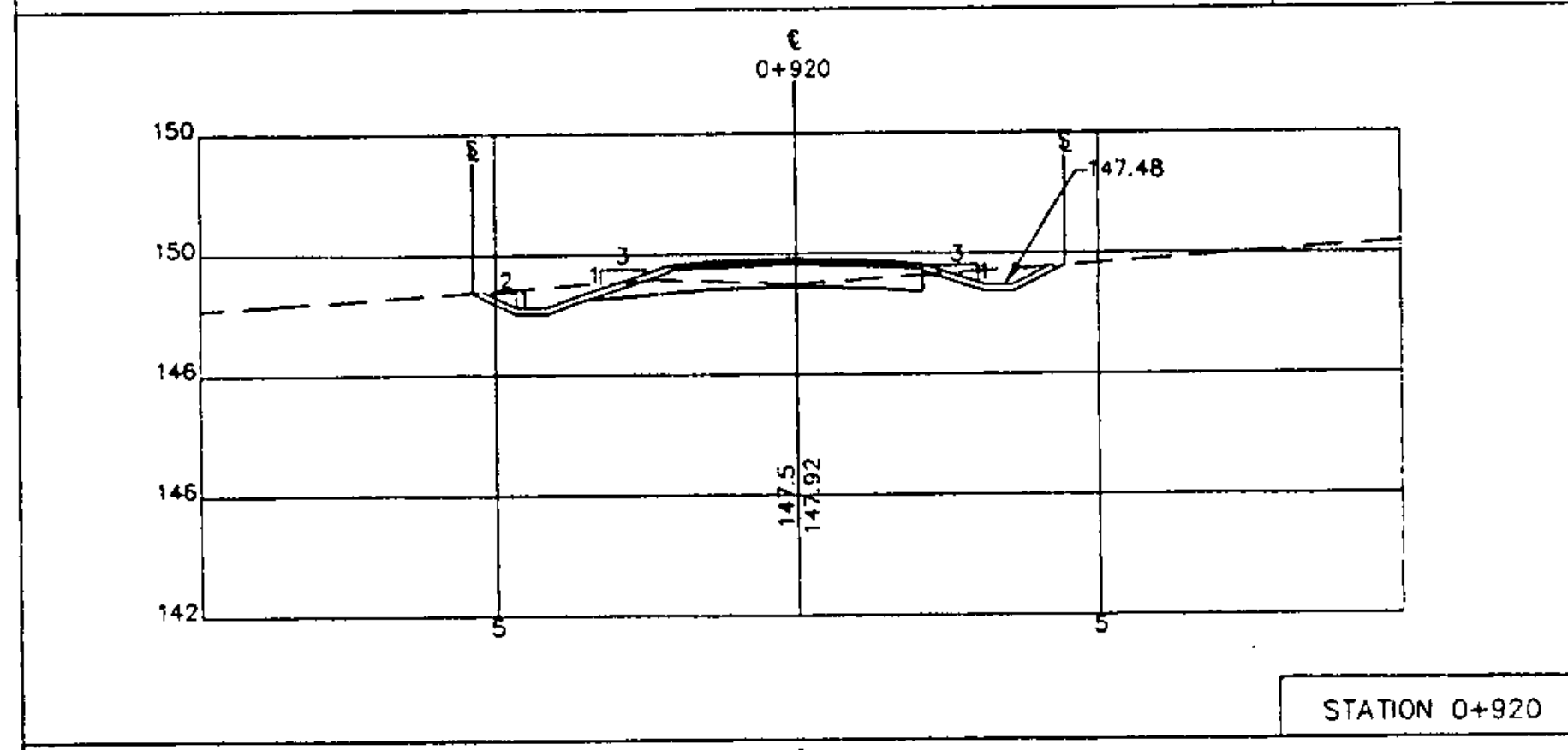
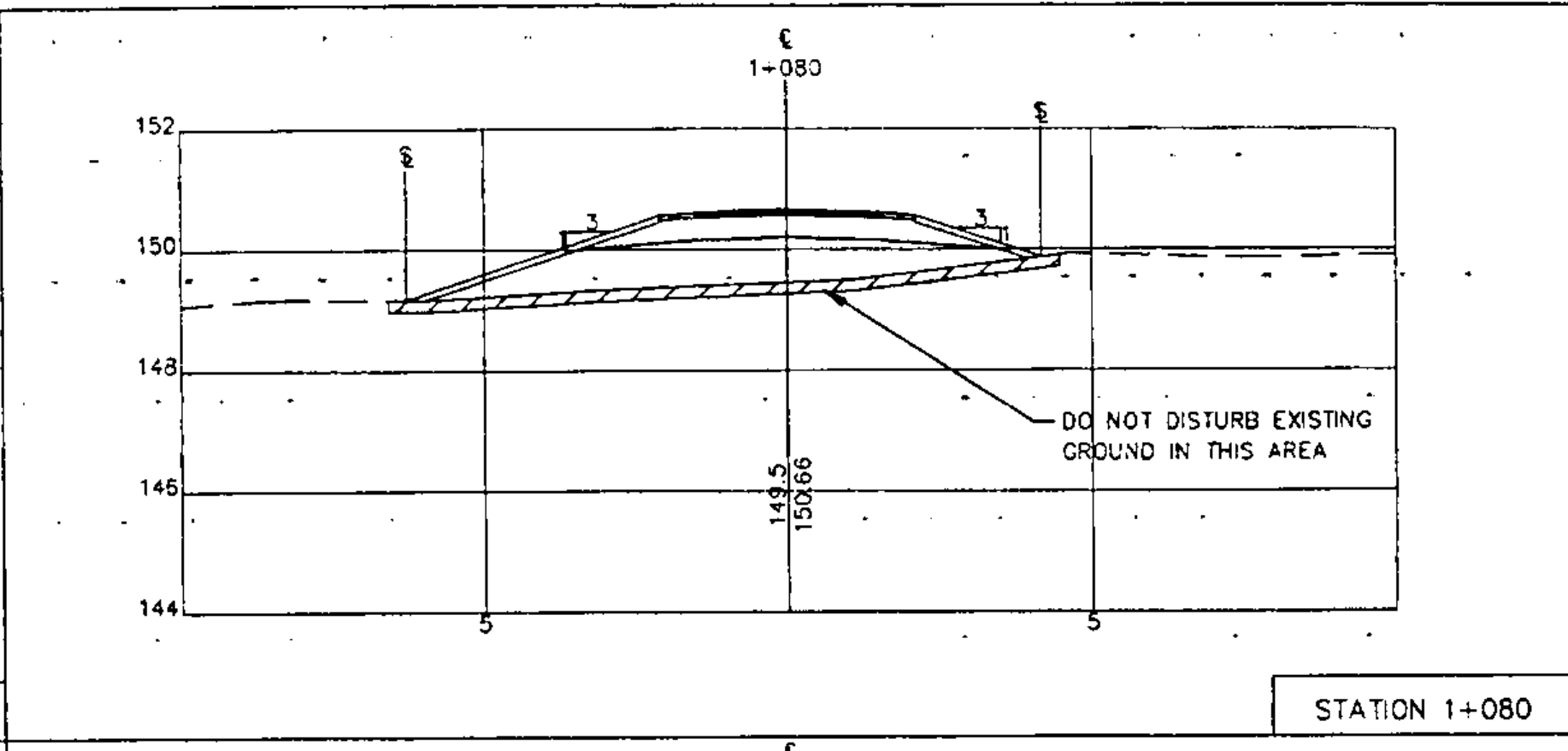
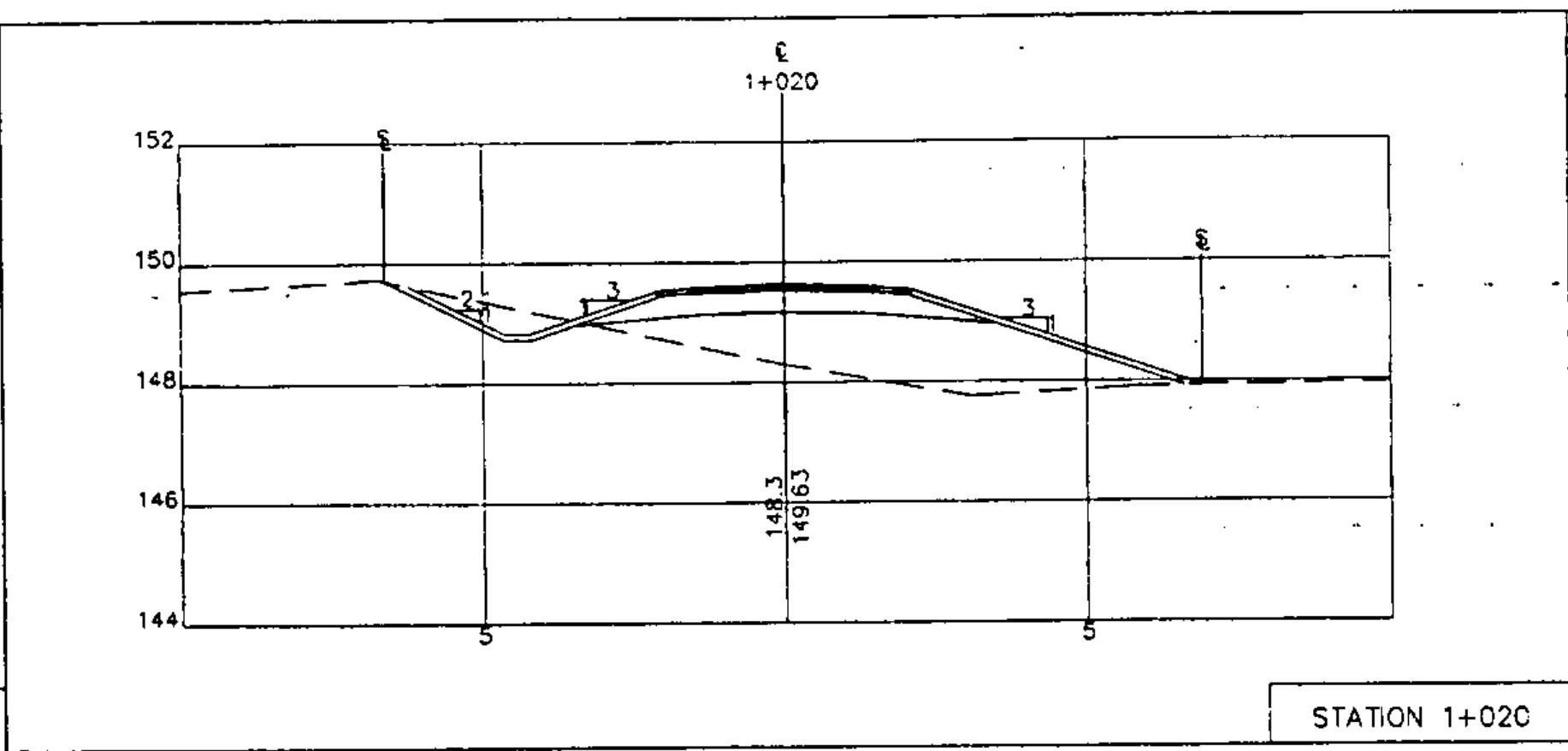
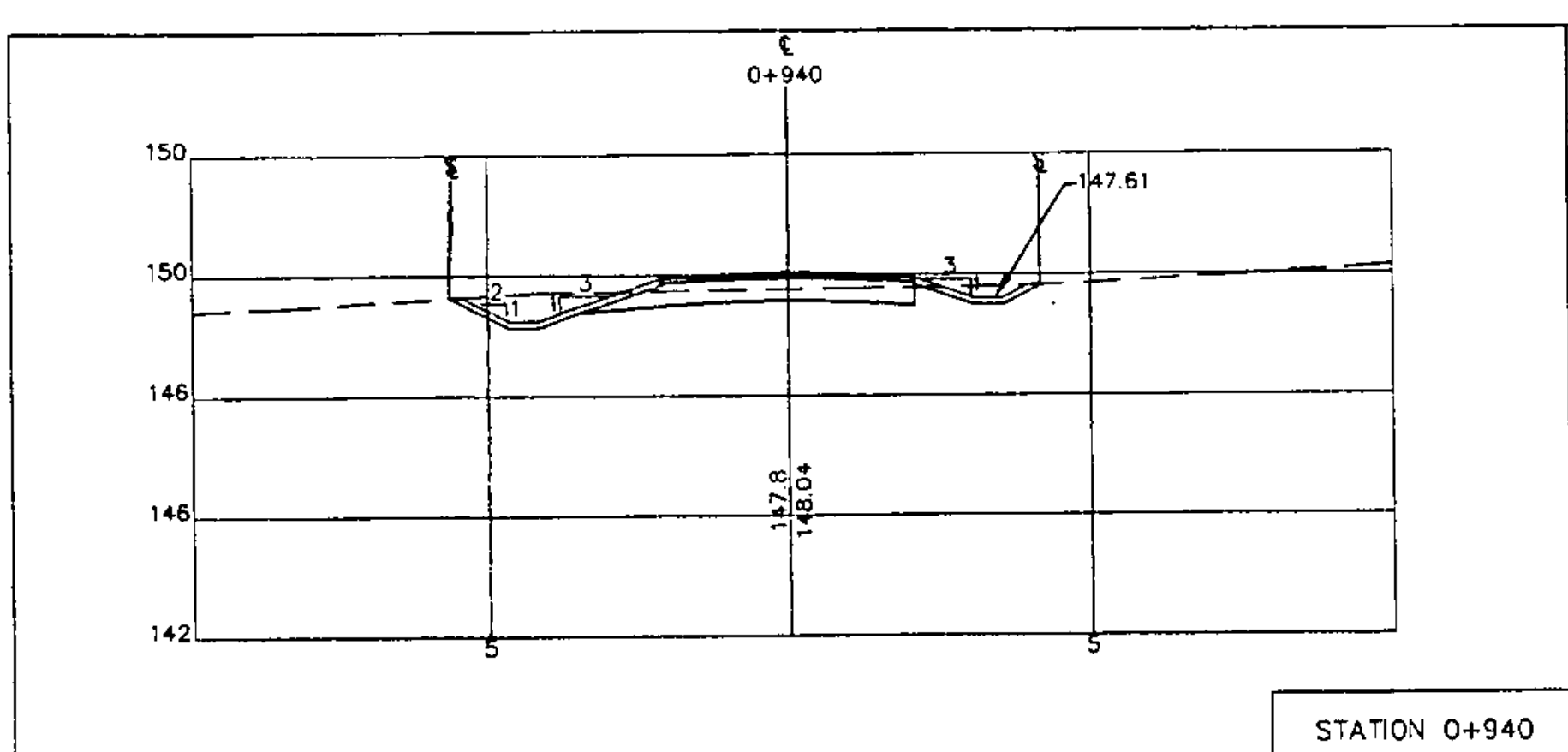
(IN METERS)

1 : 100

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WILLISTON BIKE PATH
 JOB #: 93-064 STP BIKE (9)
 DRAWING #:
 17 OF 36

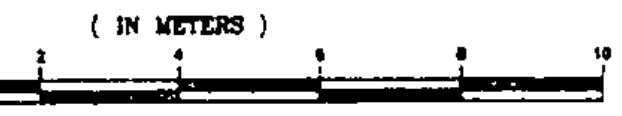


SKewed SECTION

LEGEND

- SLOPE RIGHTS AND CLEARING LIMITS
- EXISTING GROUND

GRAPHIC SCALE

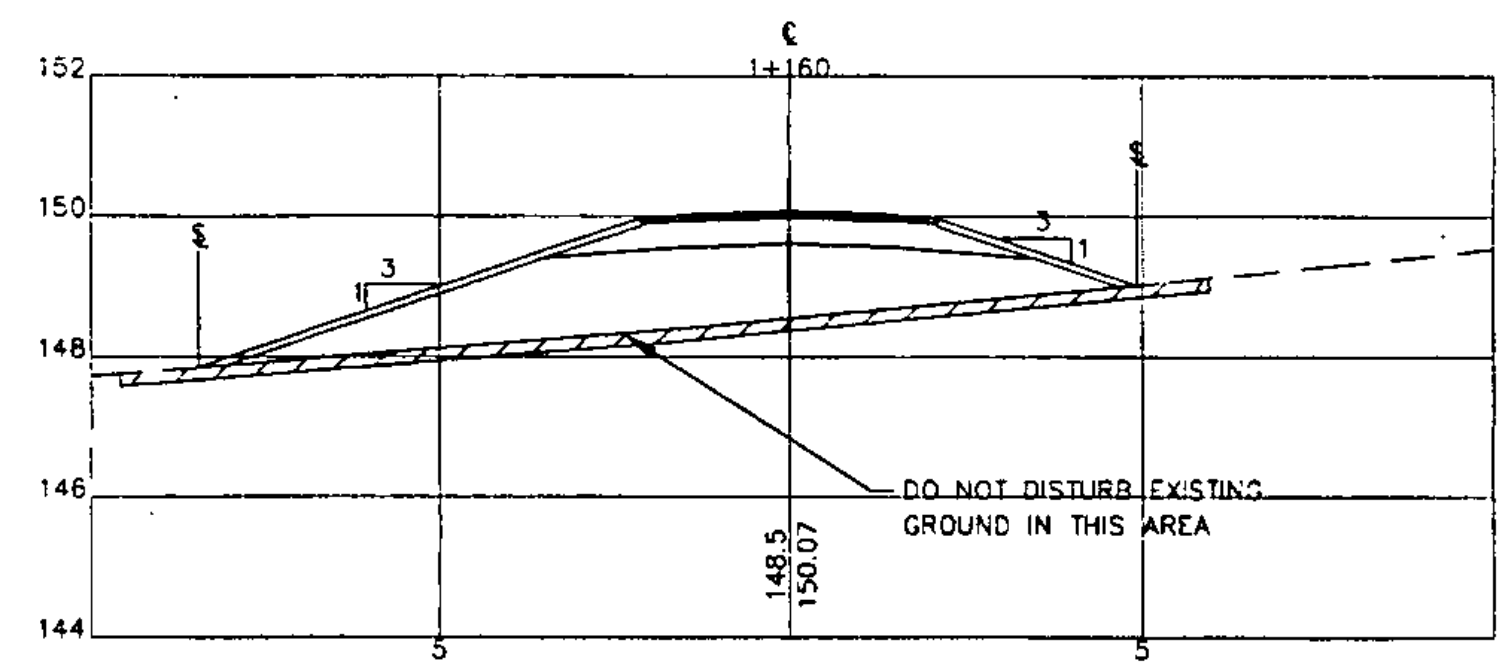


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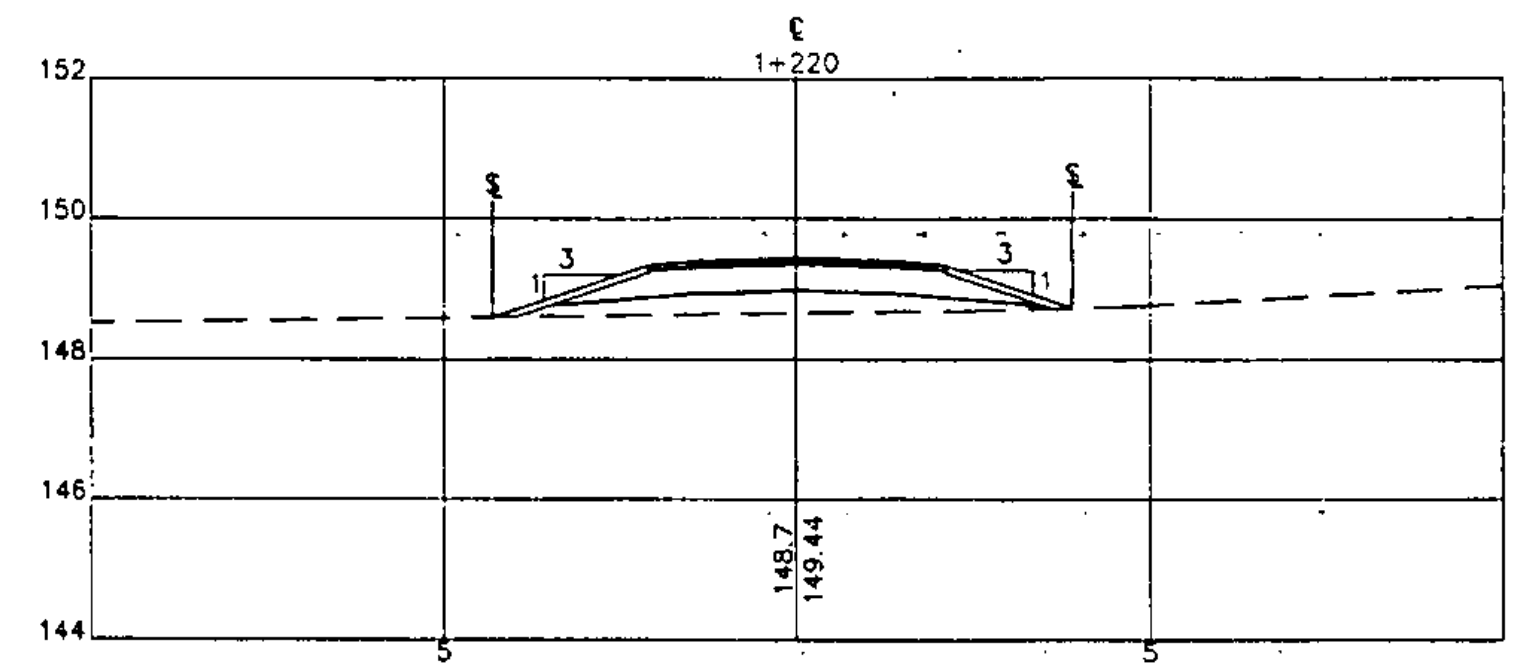
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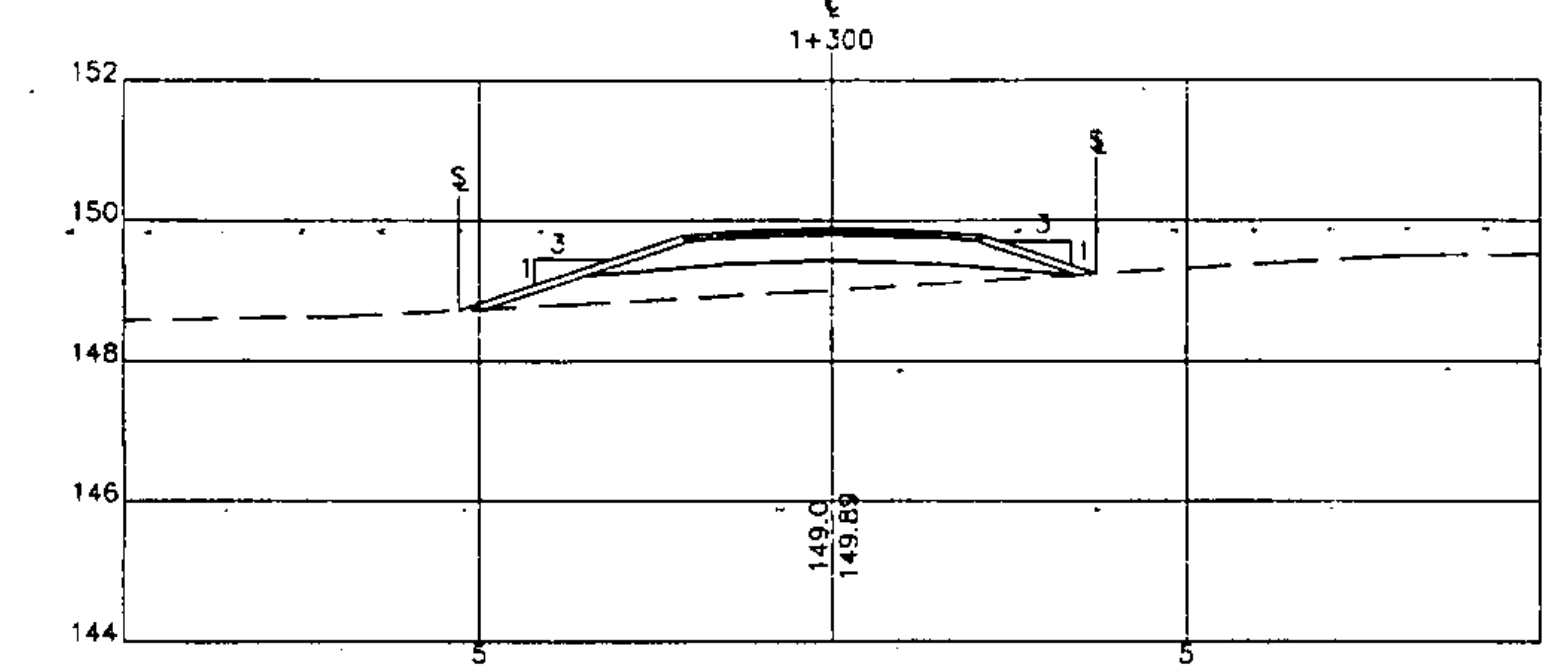
WILLISTON BIKE PATH
 JOB #. 93-064, STP BIKE (9)
 DRAWING #:
 18 OF 36



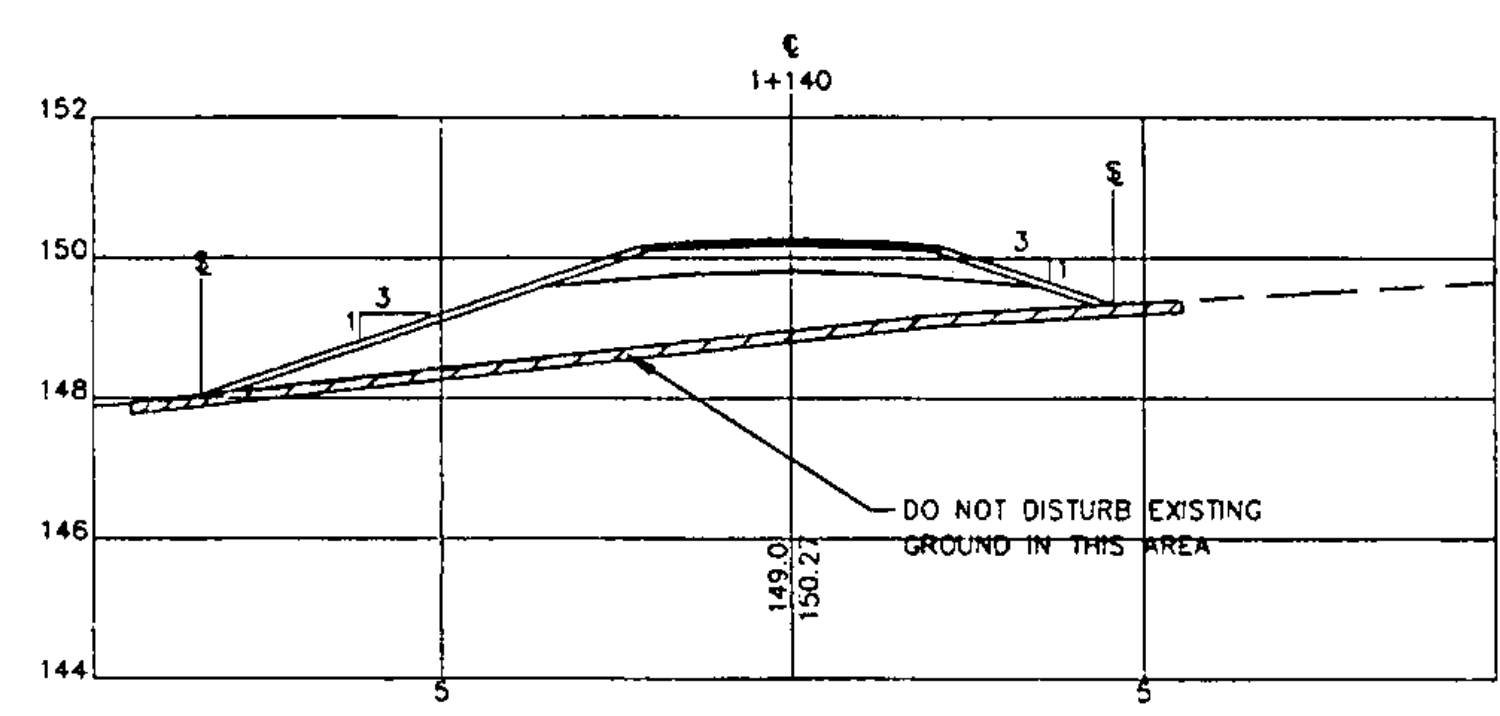
STATION 1+160



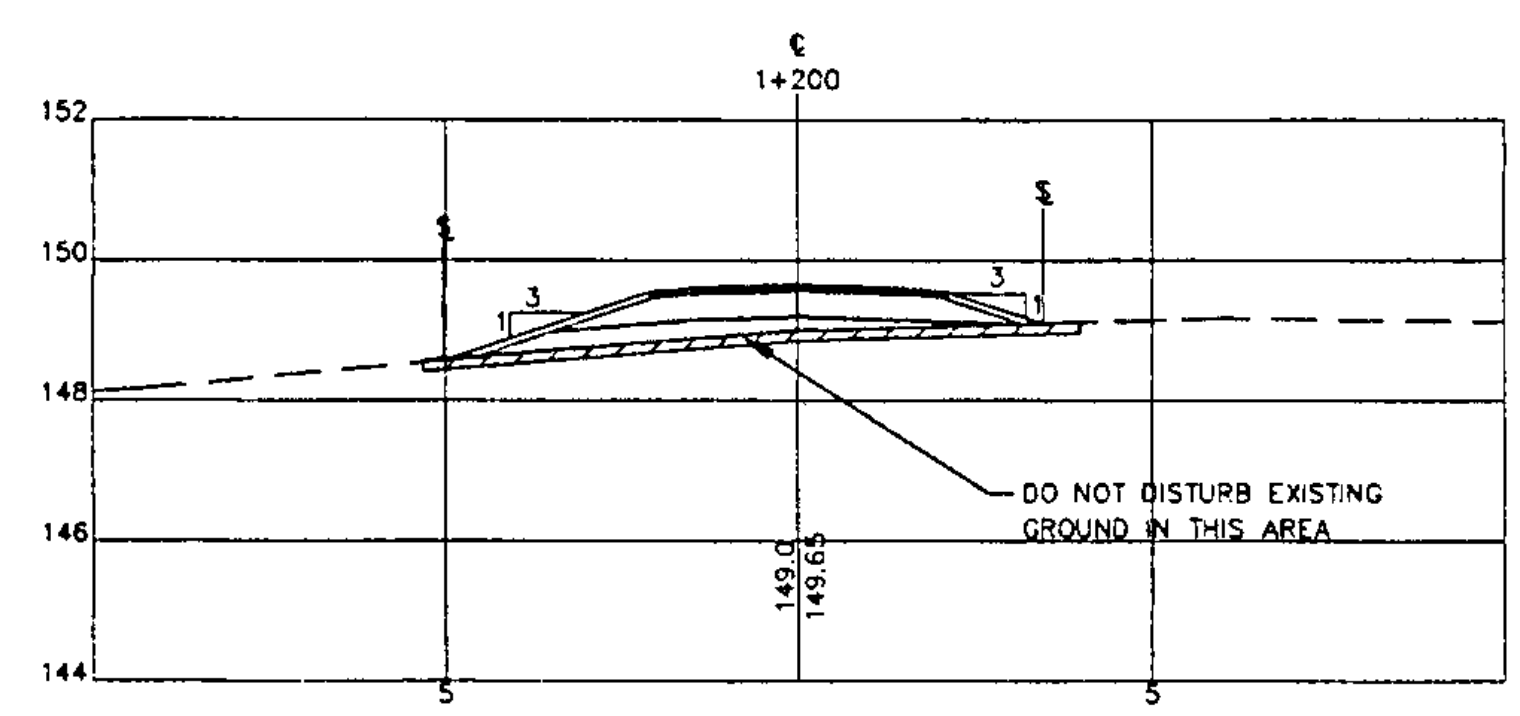
STATION 1+220



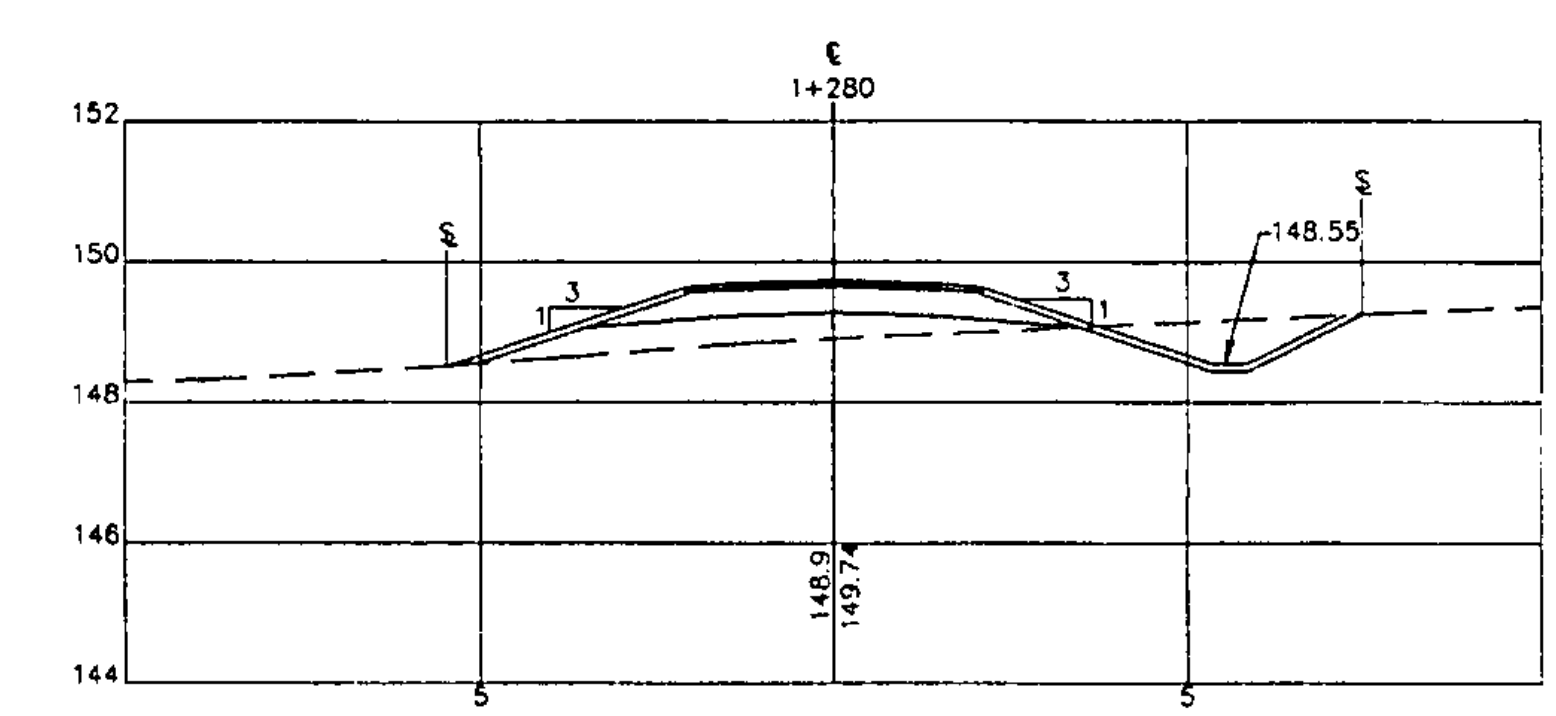
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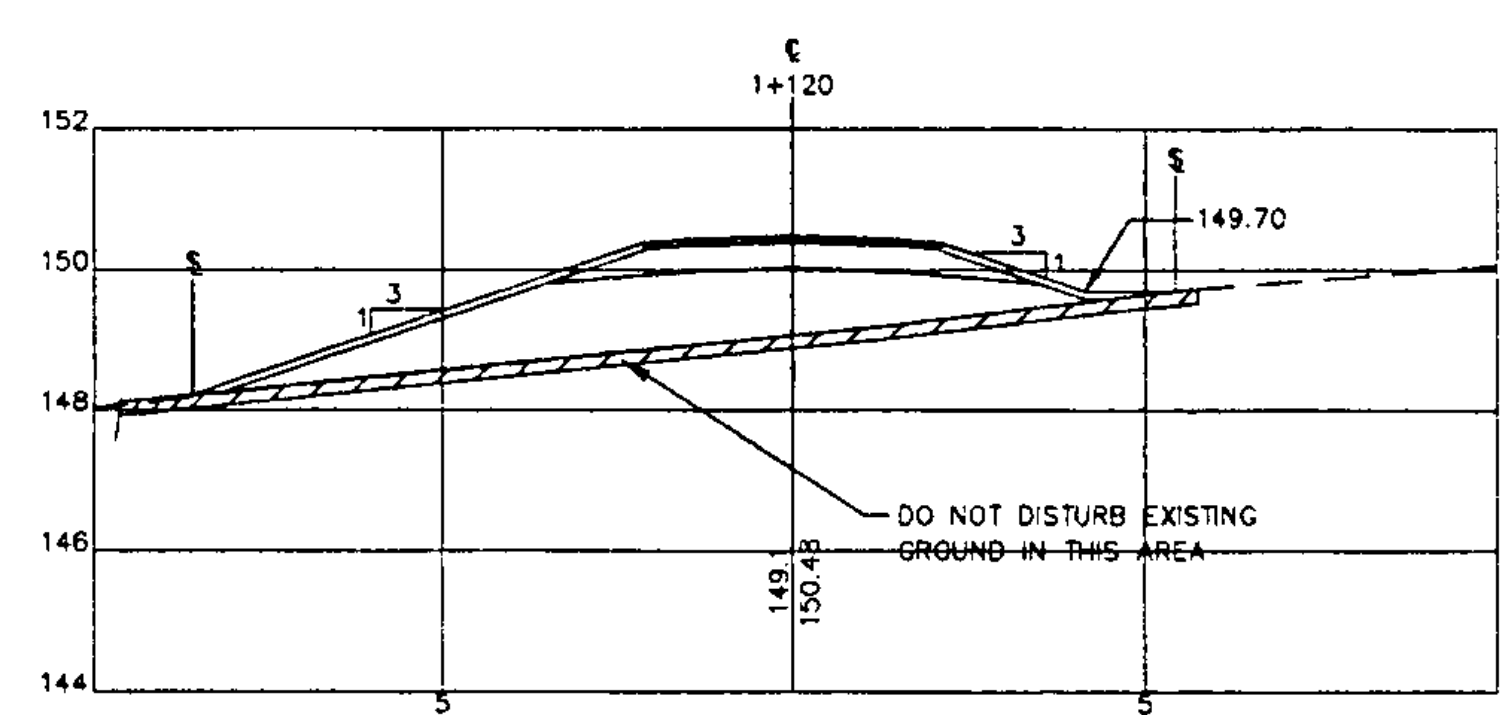
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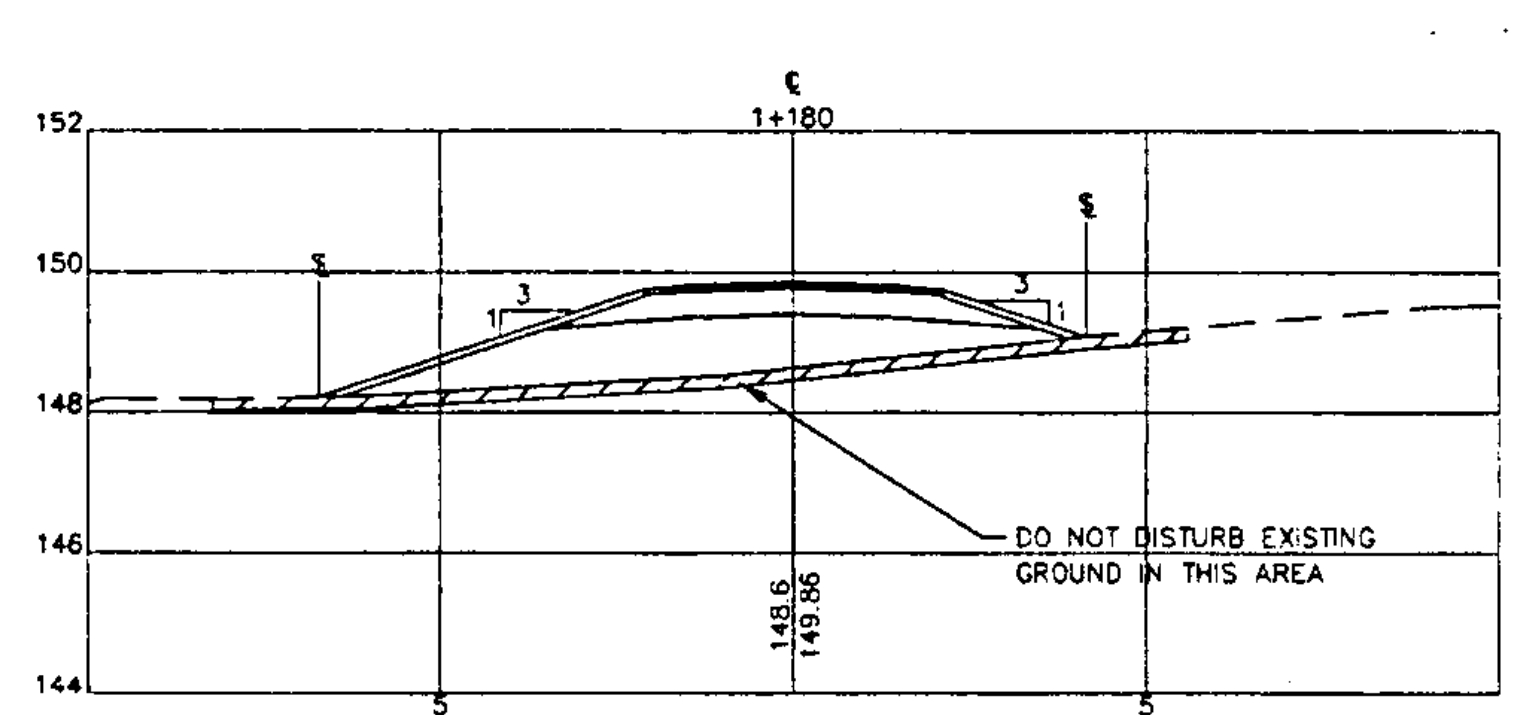
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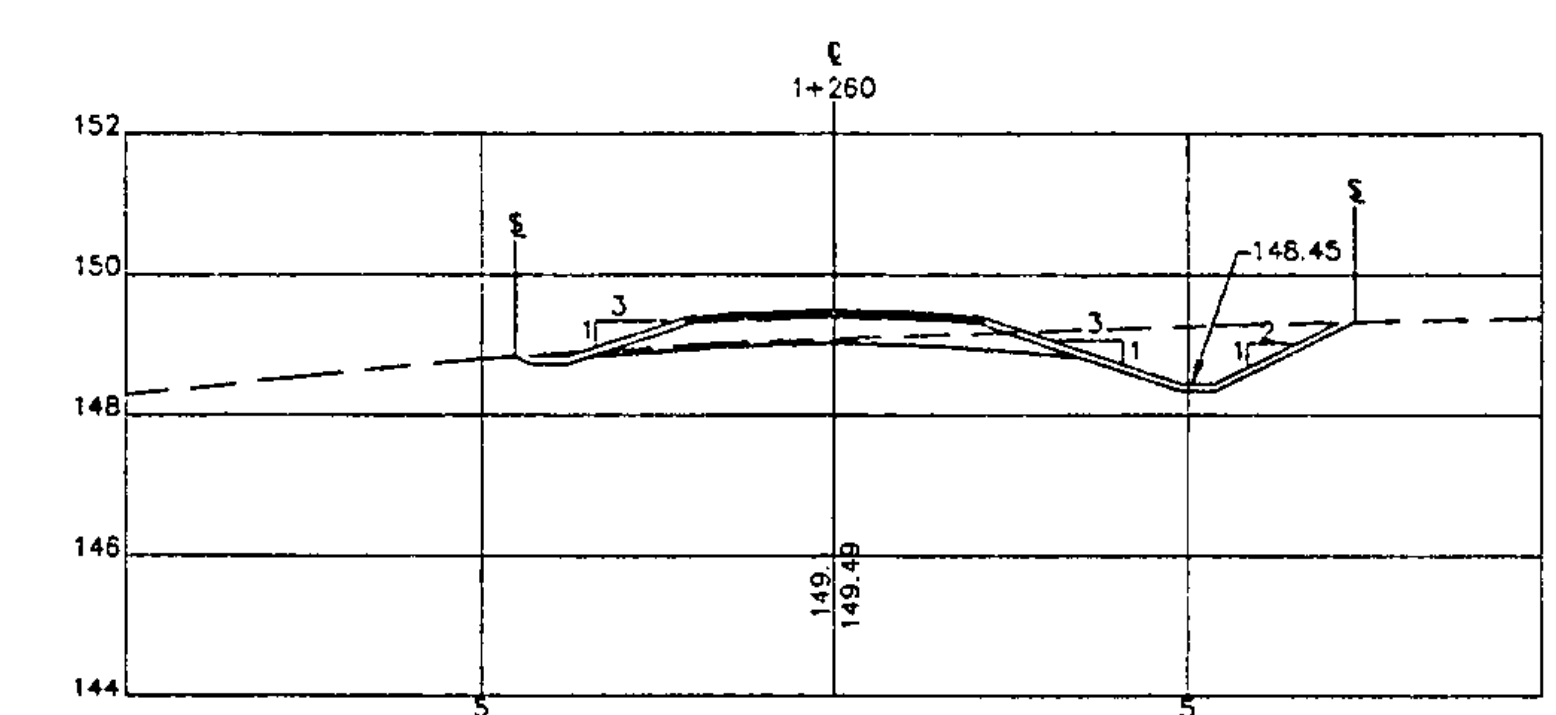
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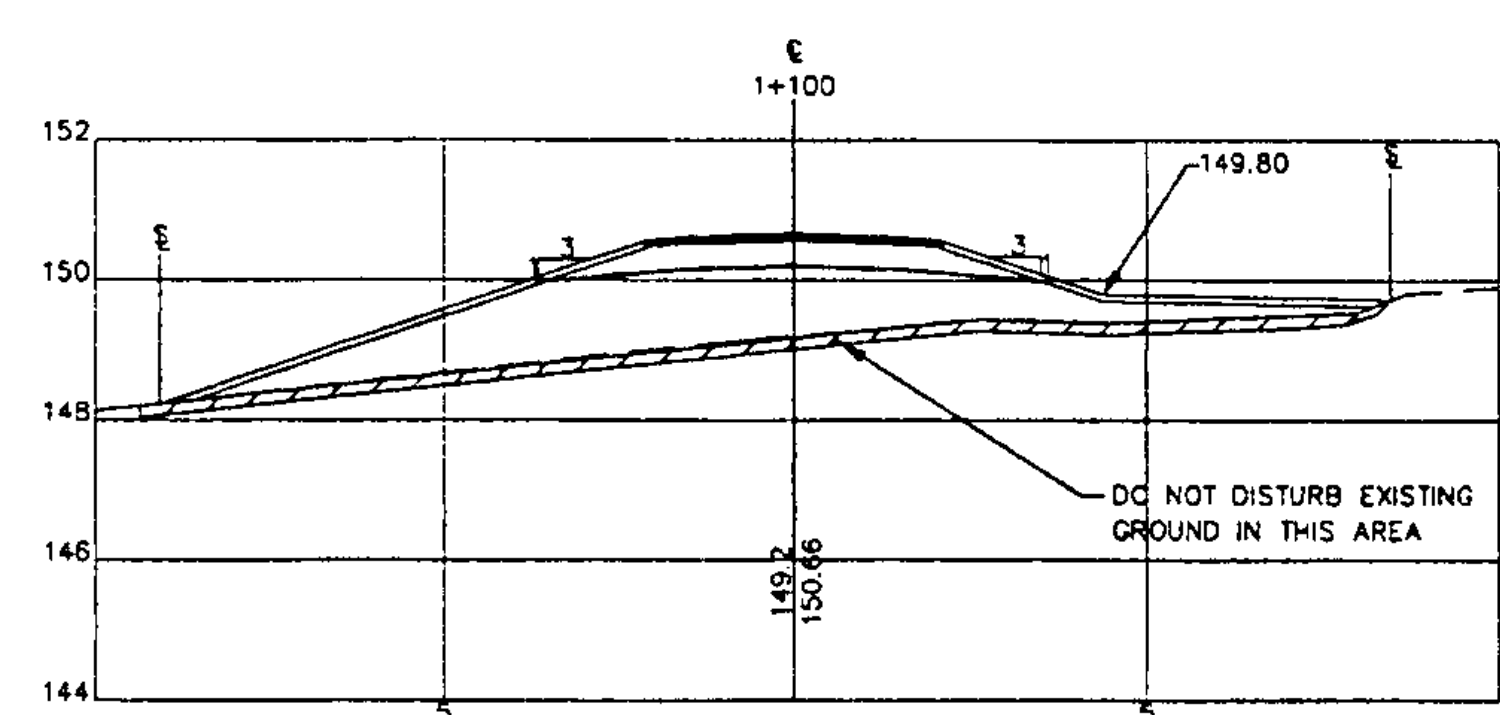
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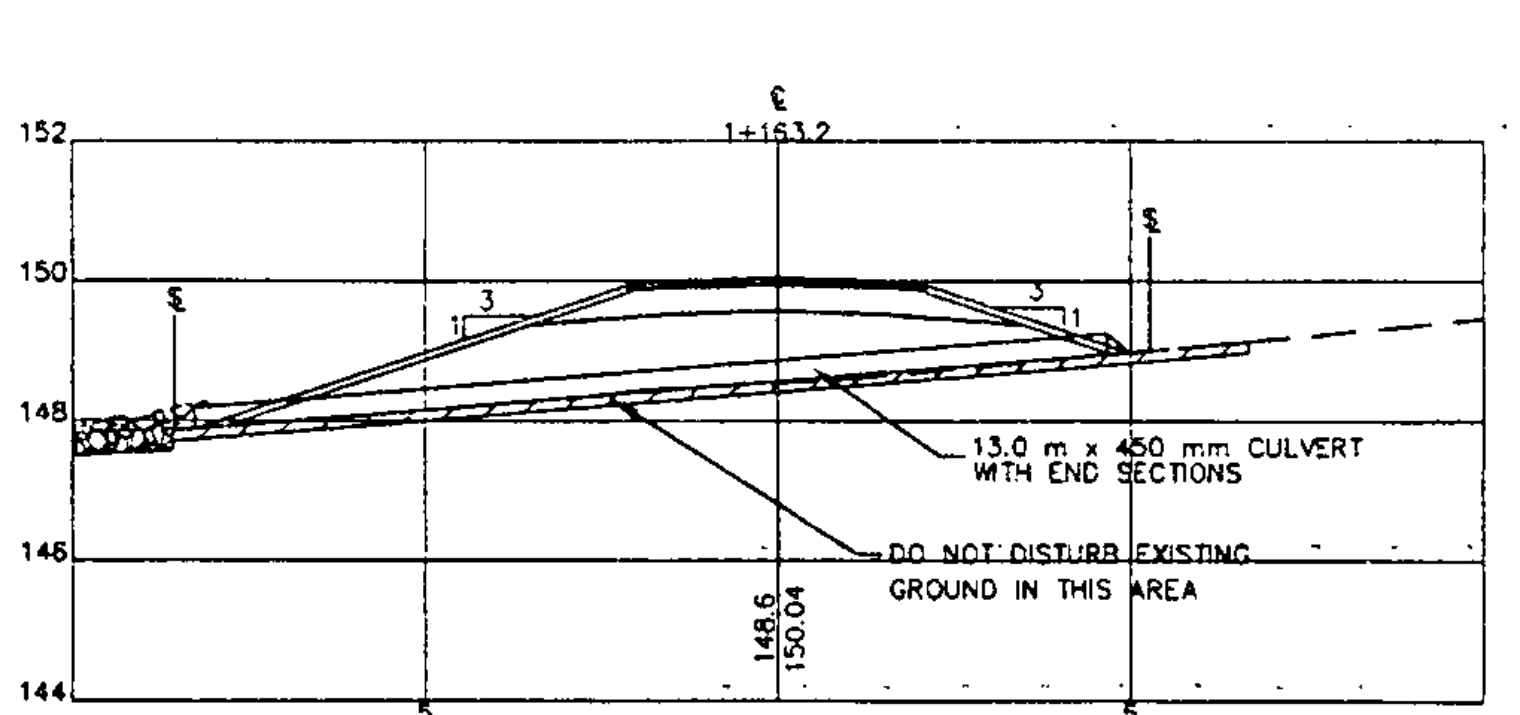
STATION 1+180



STATION 1+260

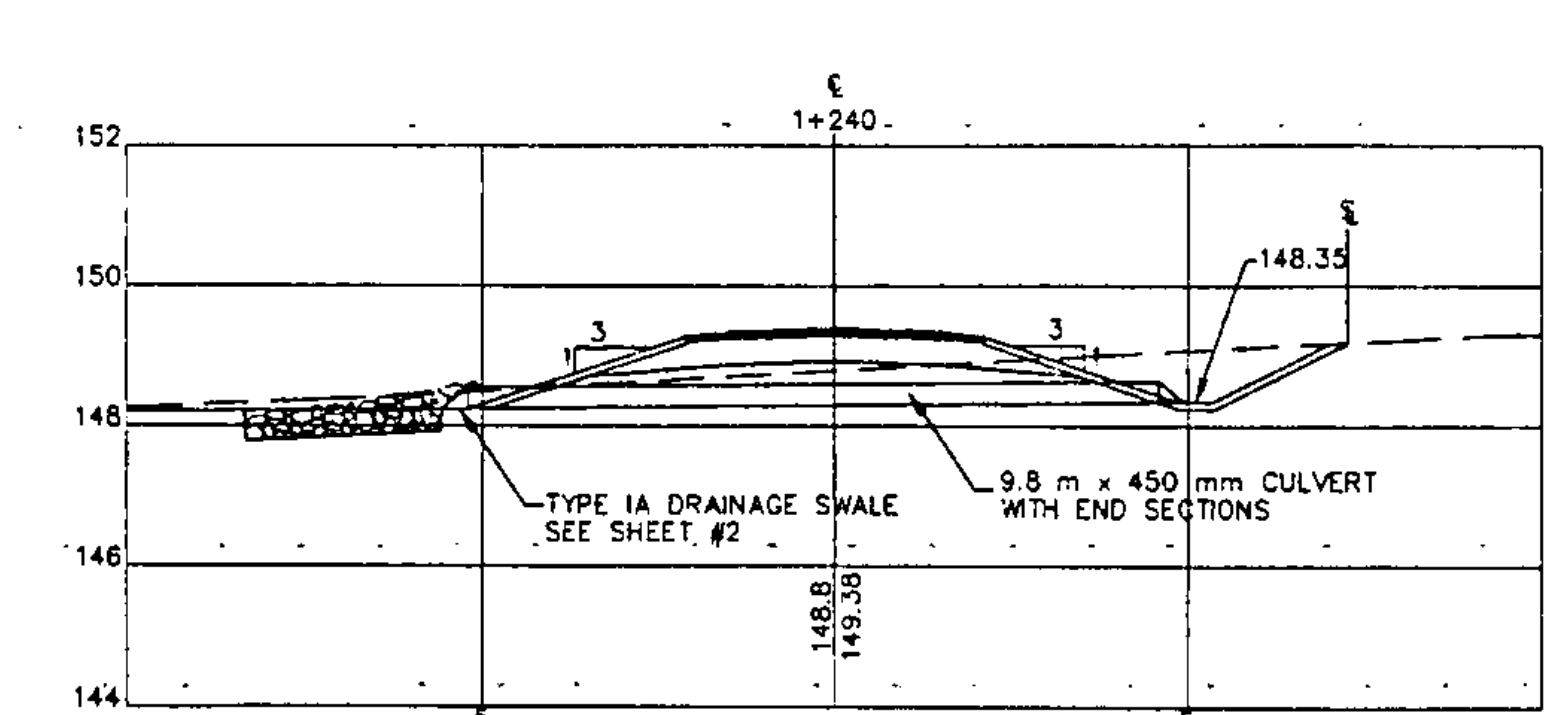


STATION 1+100



SKewed SECTION

STATION 1+163.2



STATION 1+240

LEGEND

- SLOPE RIGHTS AND CLEARING LIMITS
- EXISTING GROUND

GRAPHIC SCALE

(IN METERS)

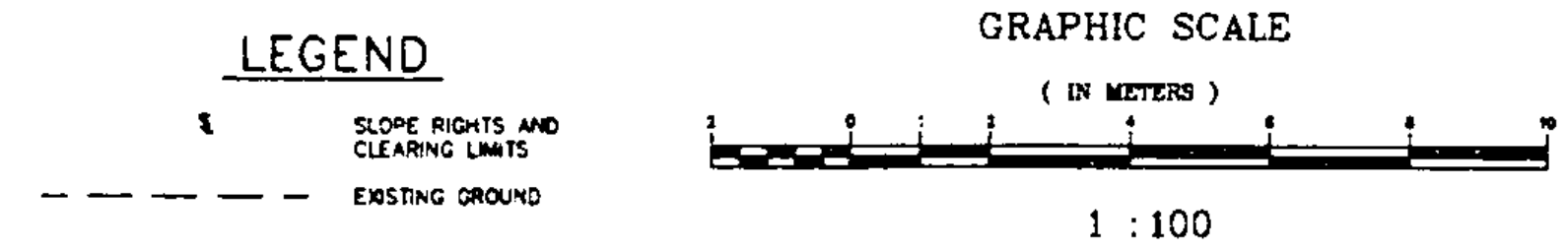
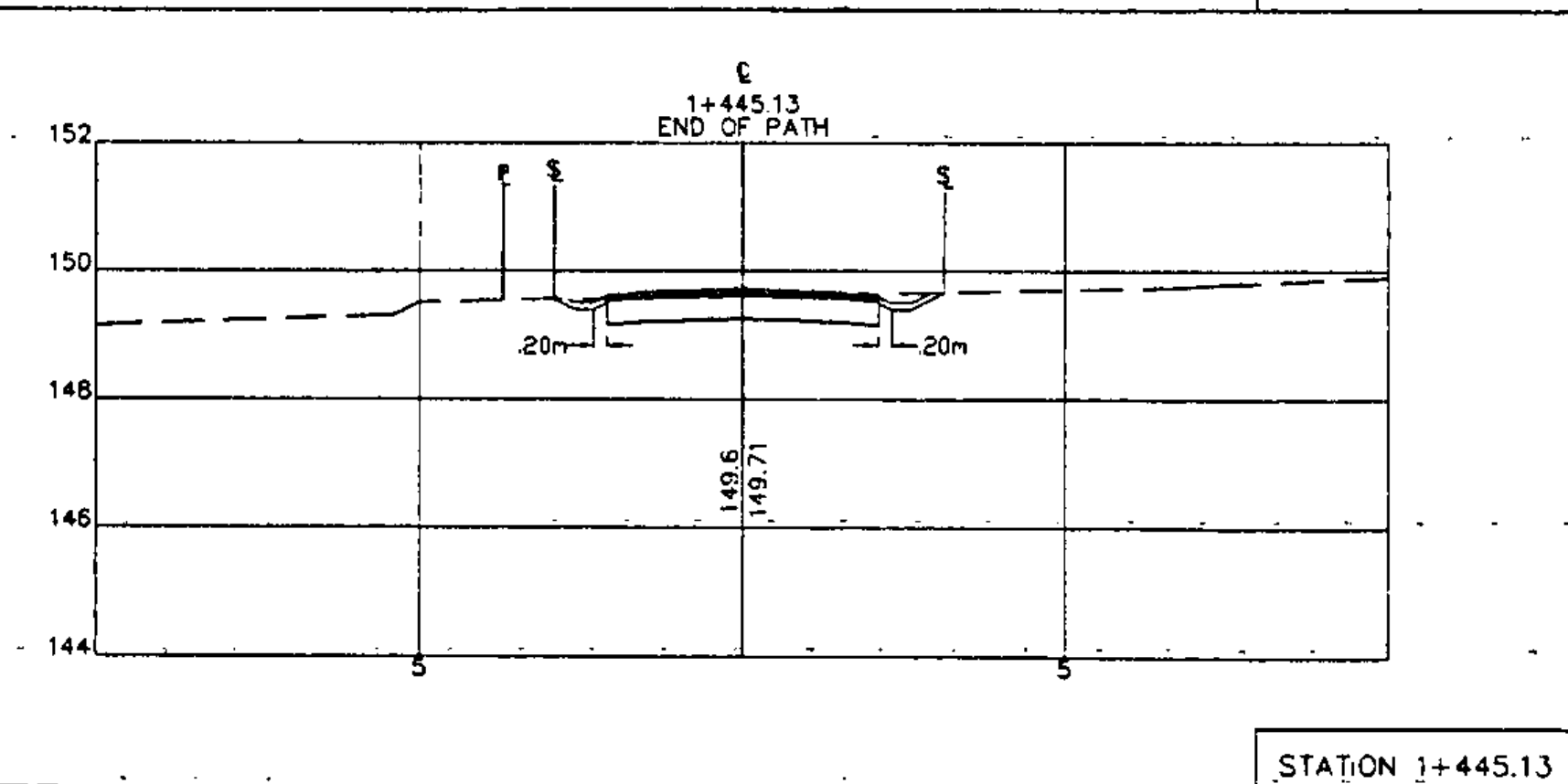
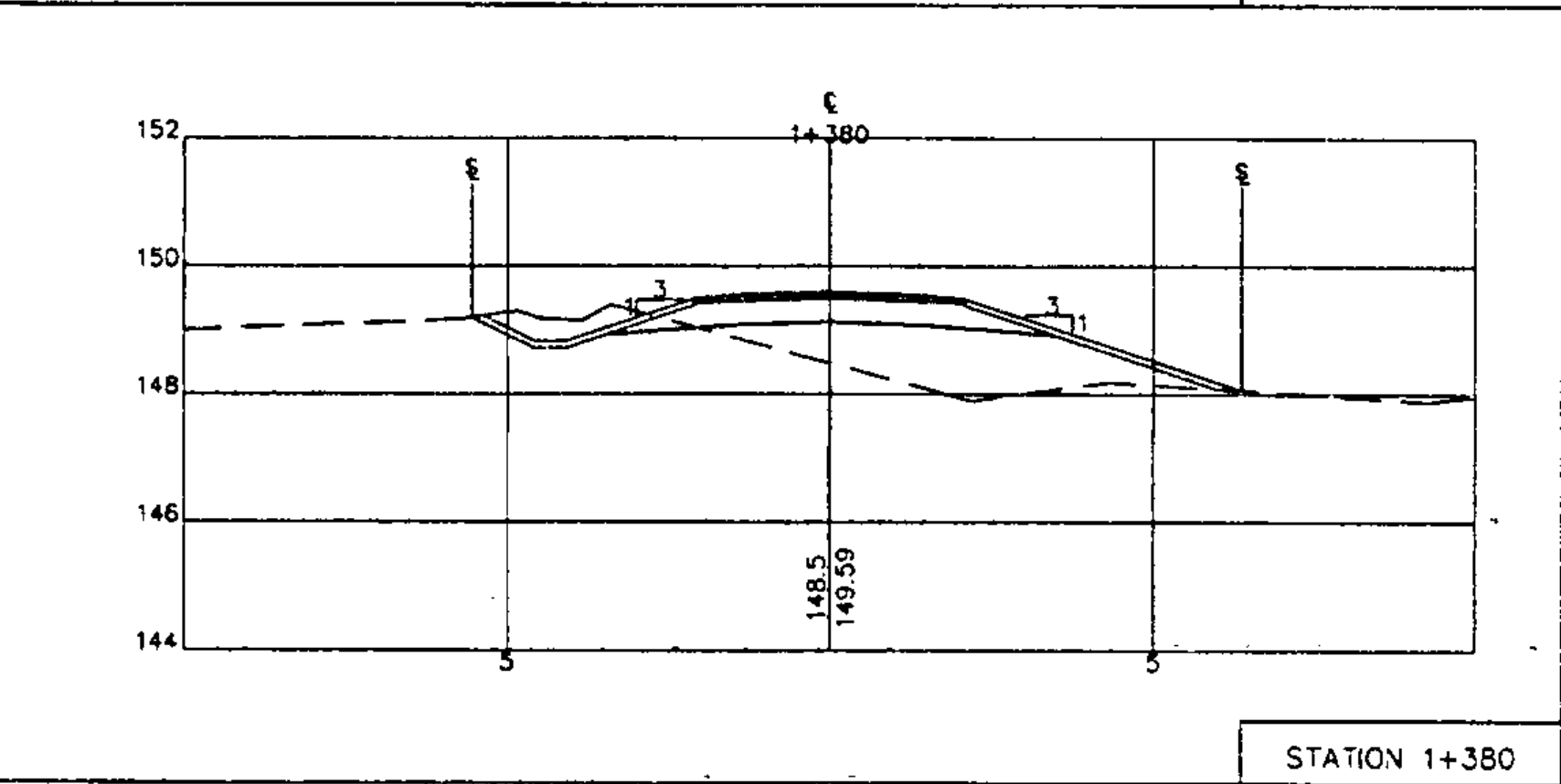
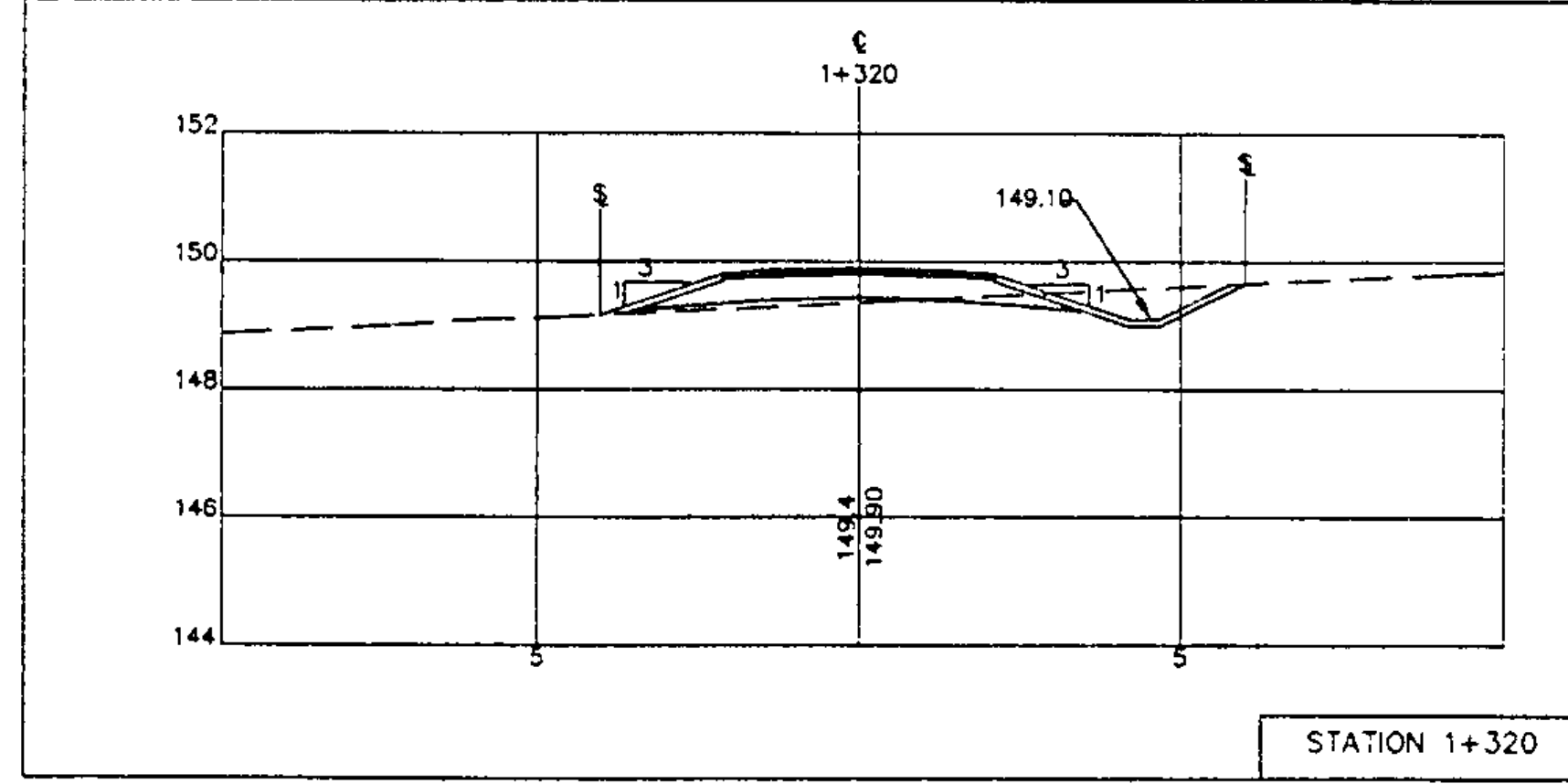
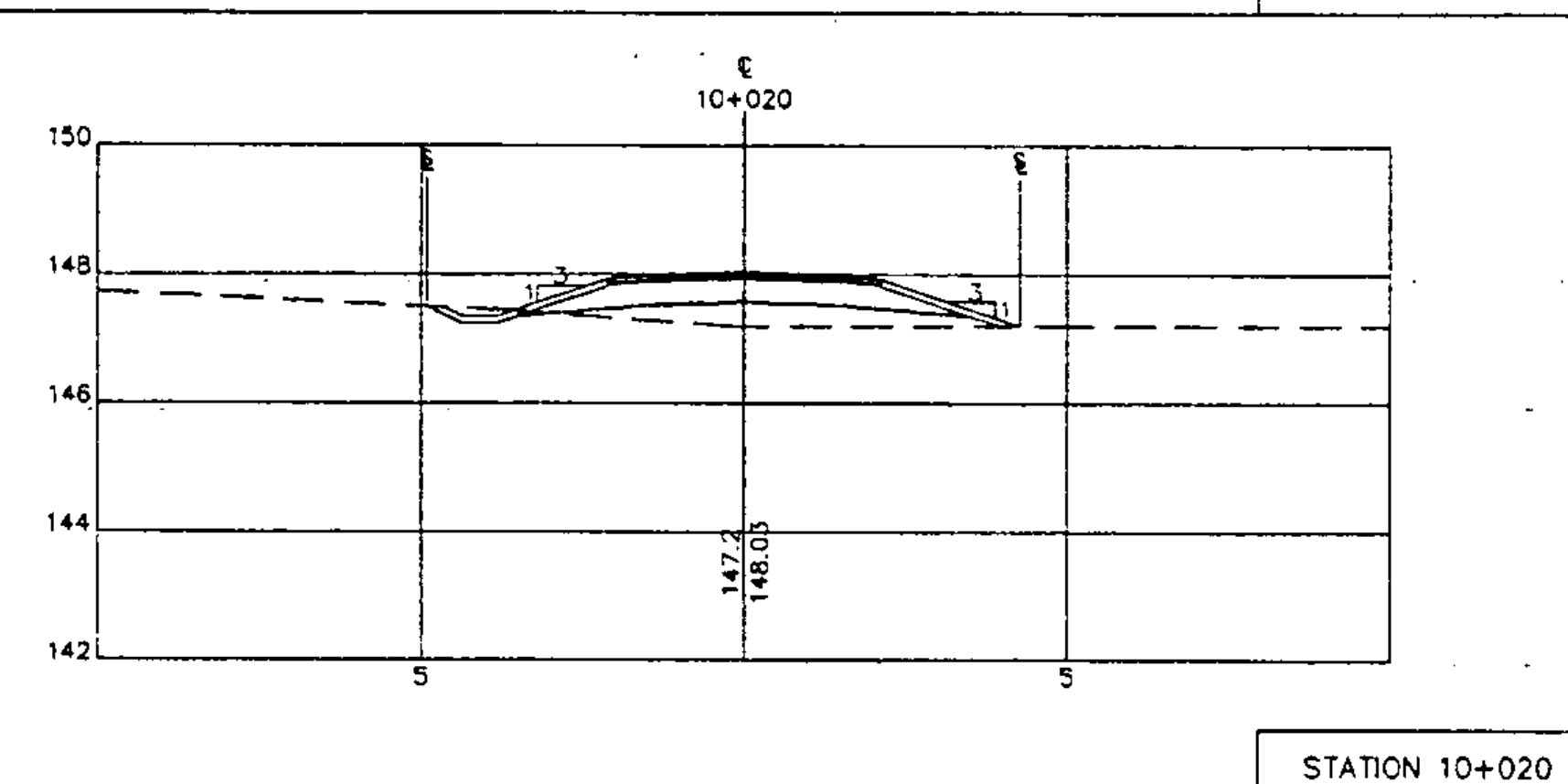
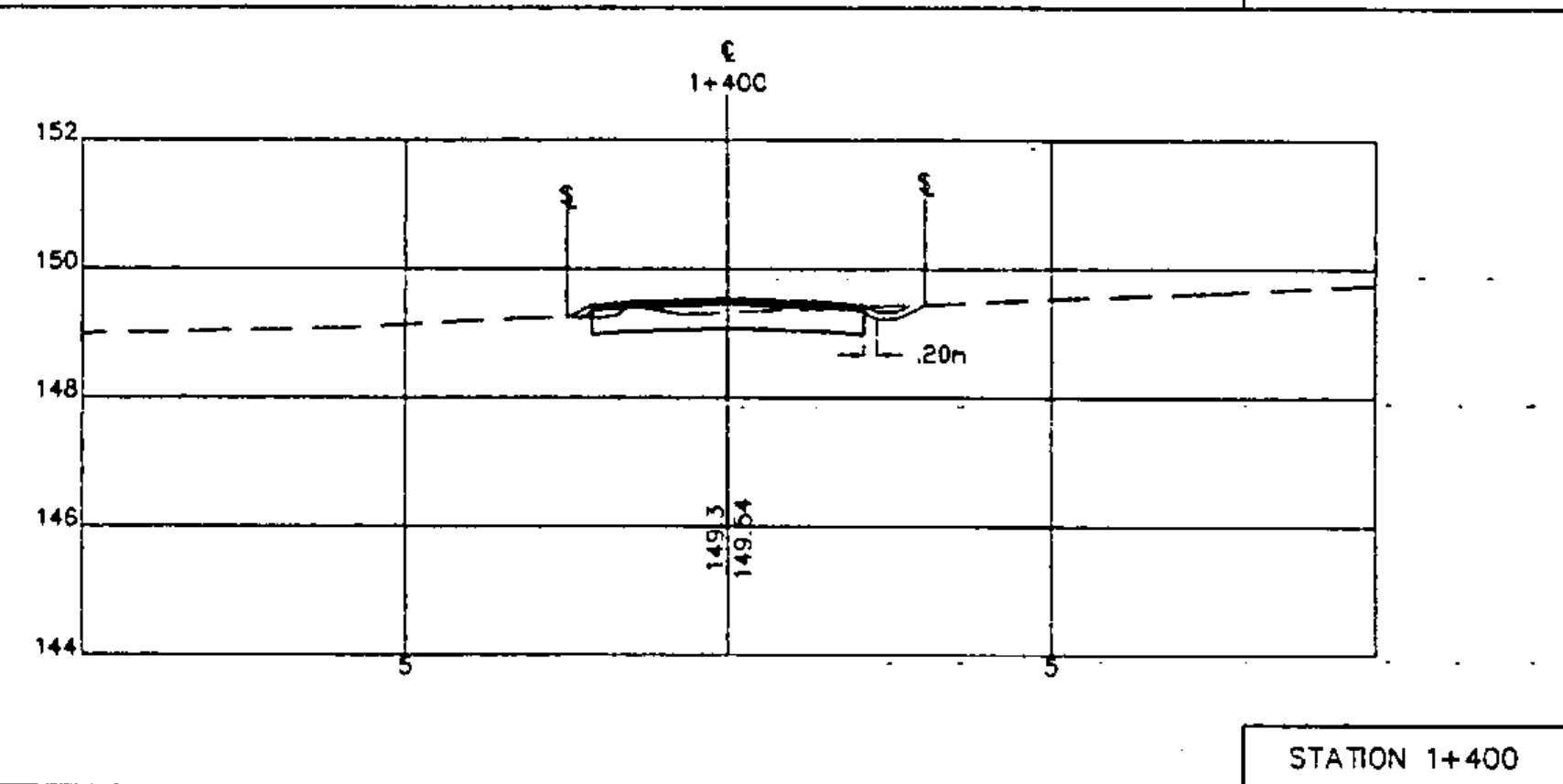
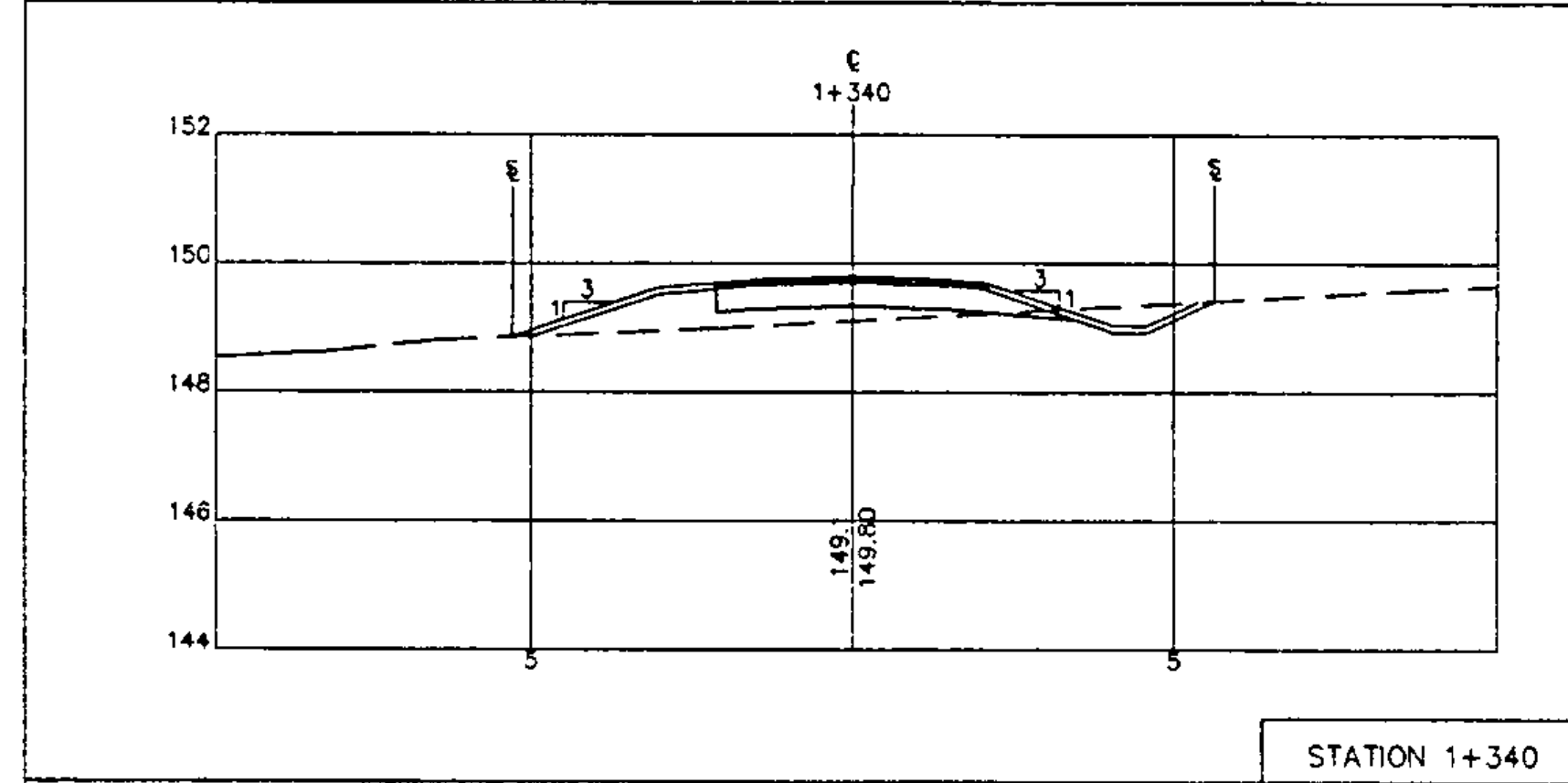
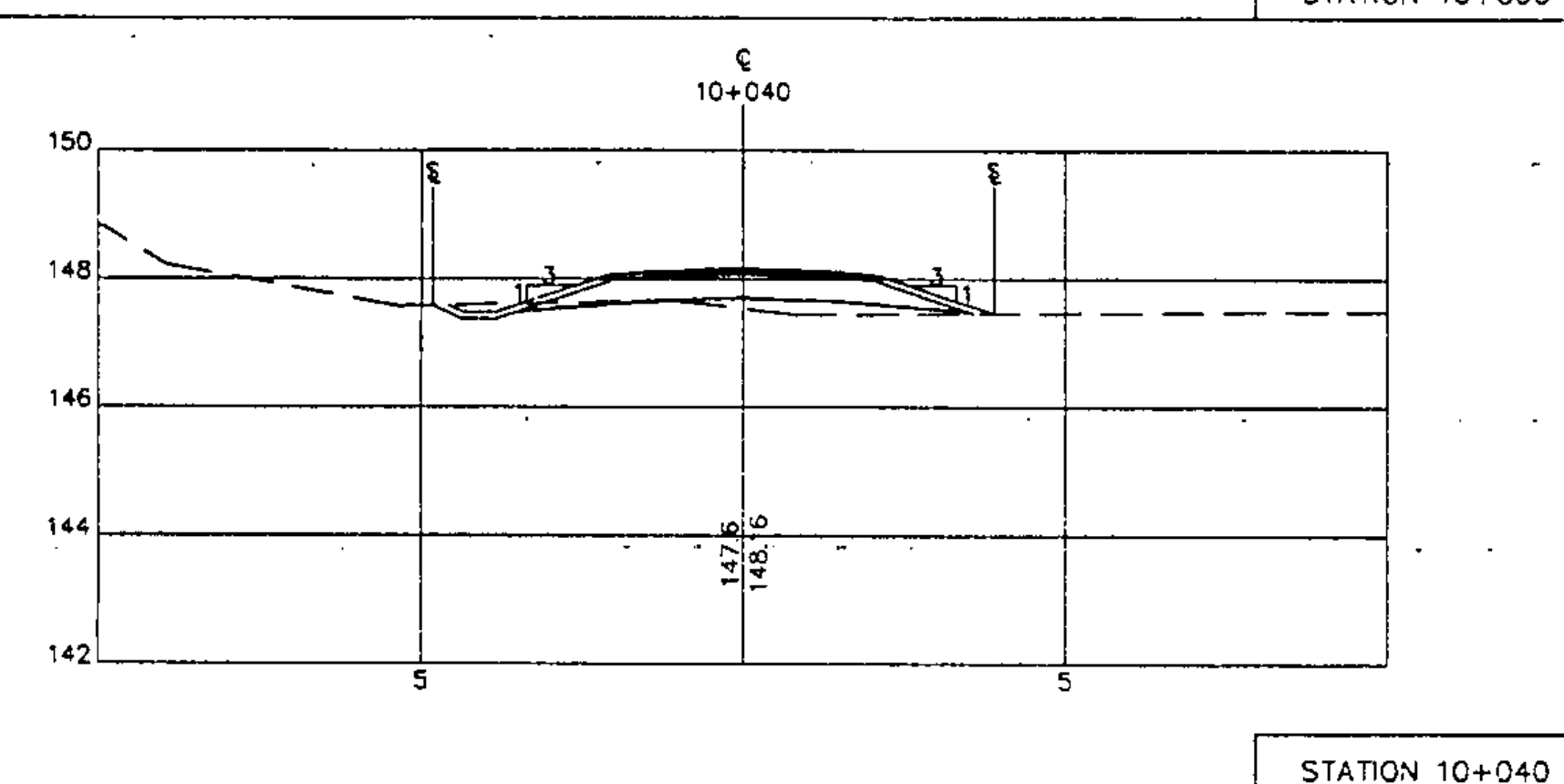
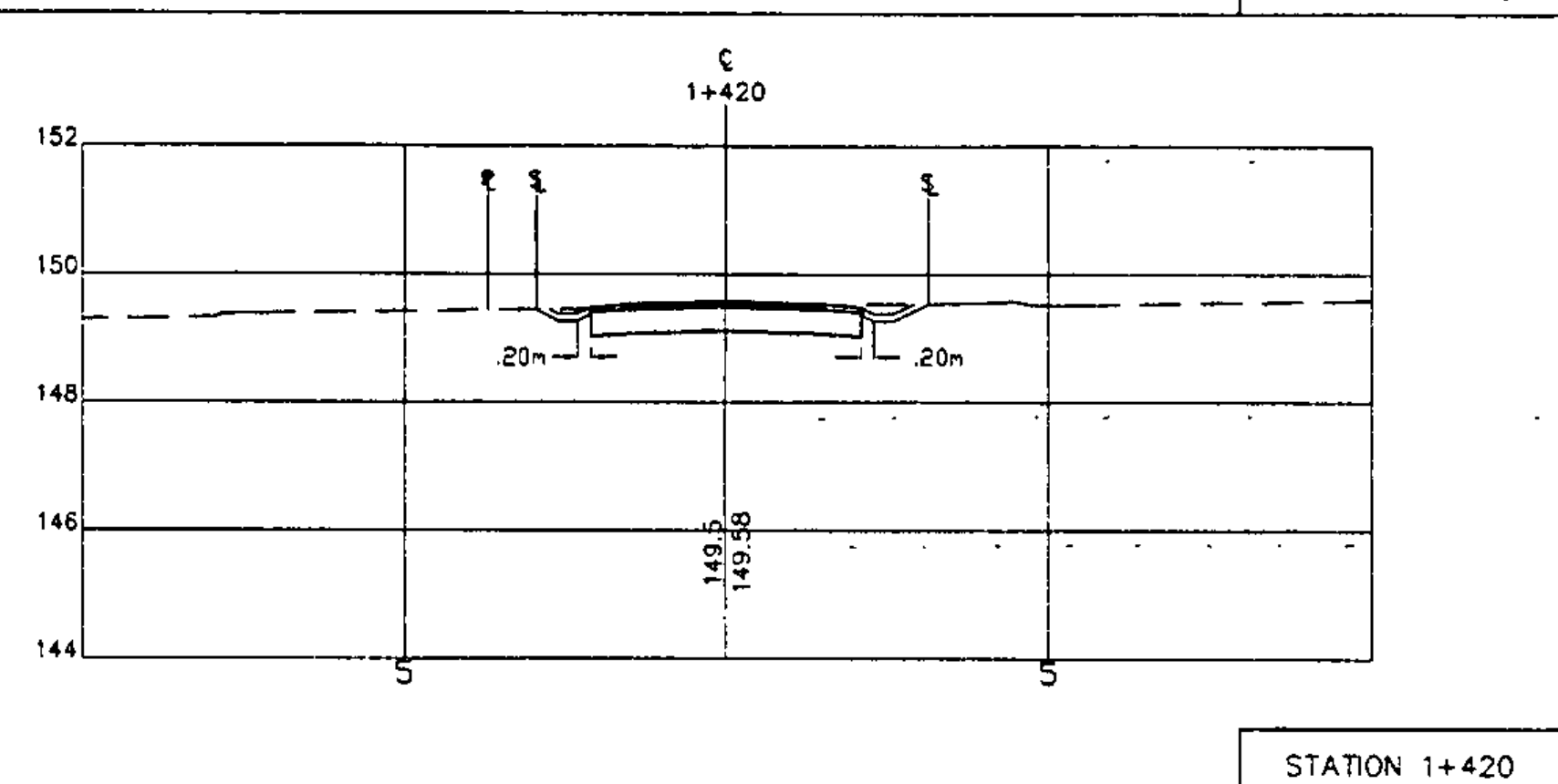
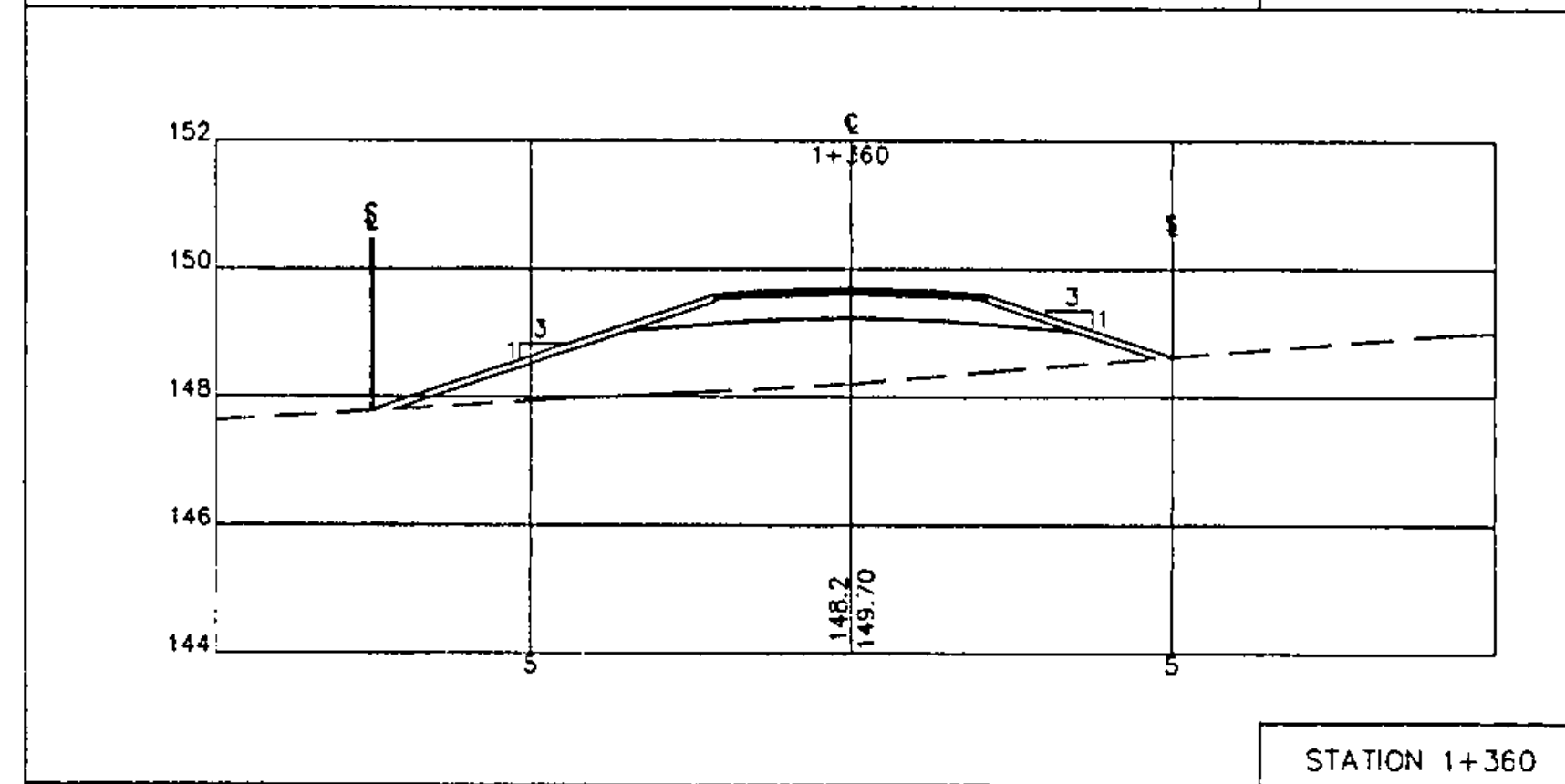
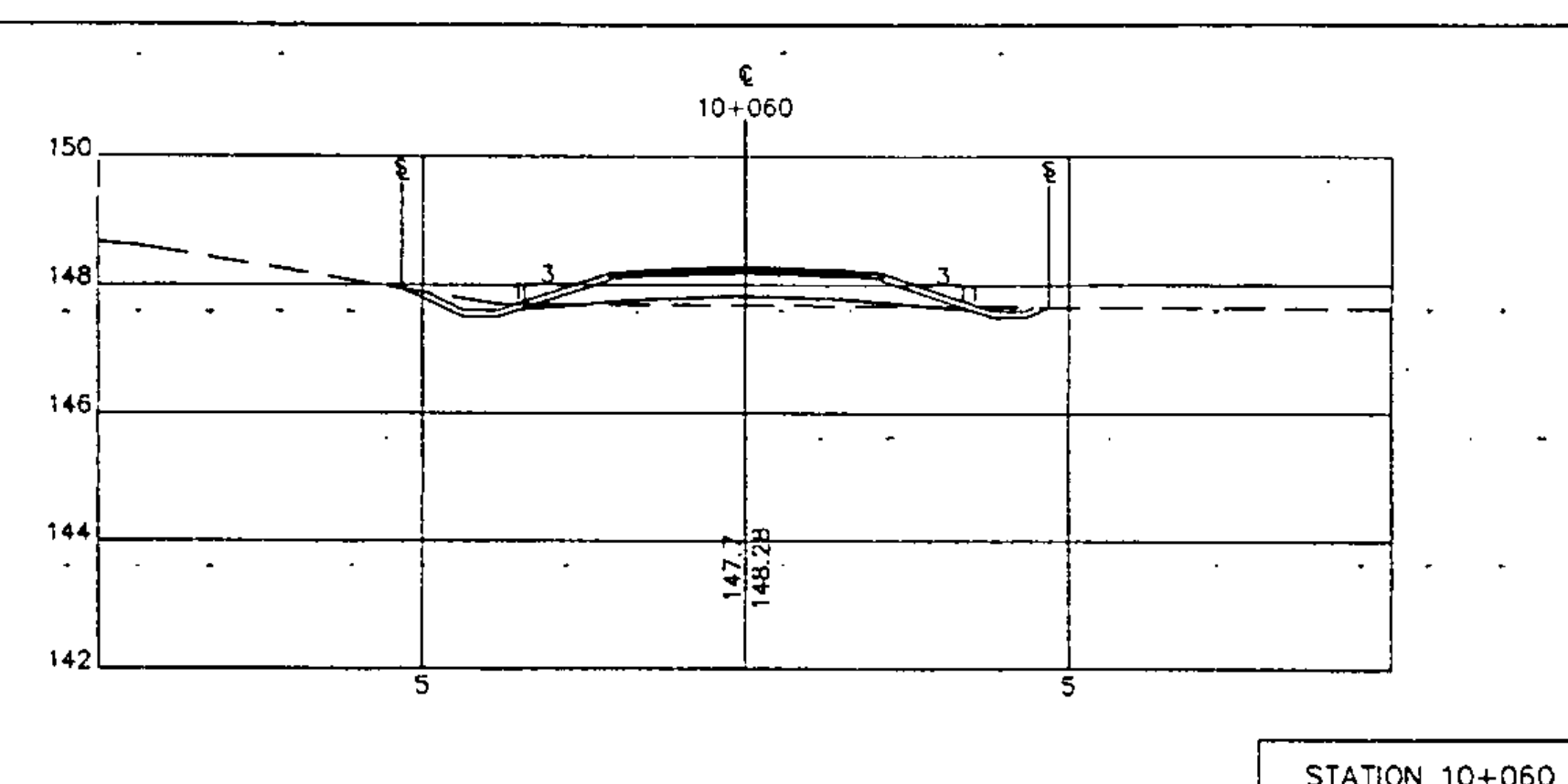
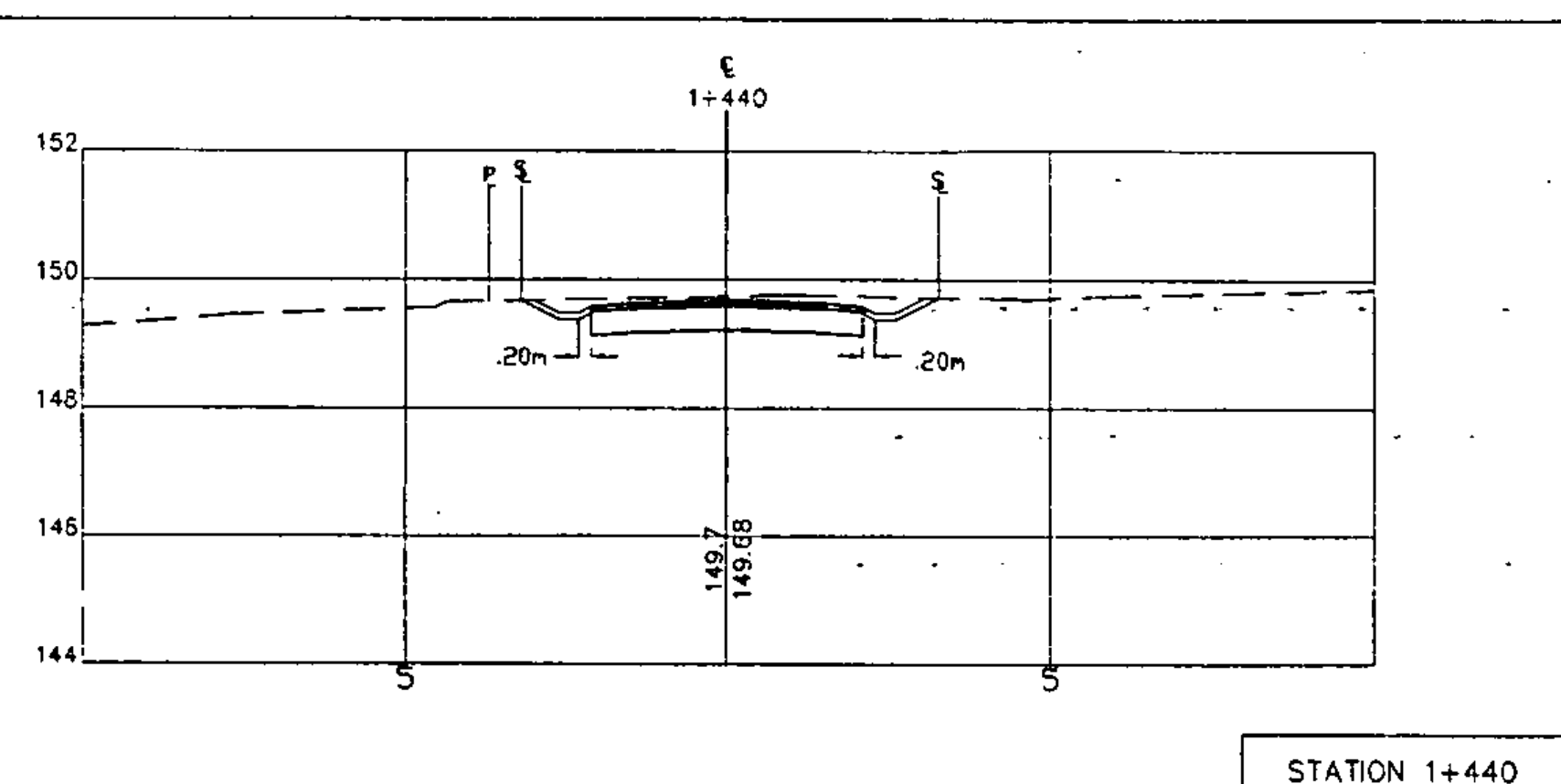
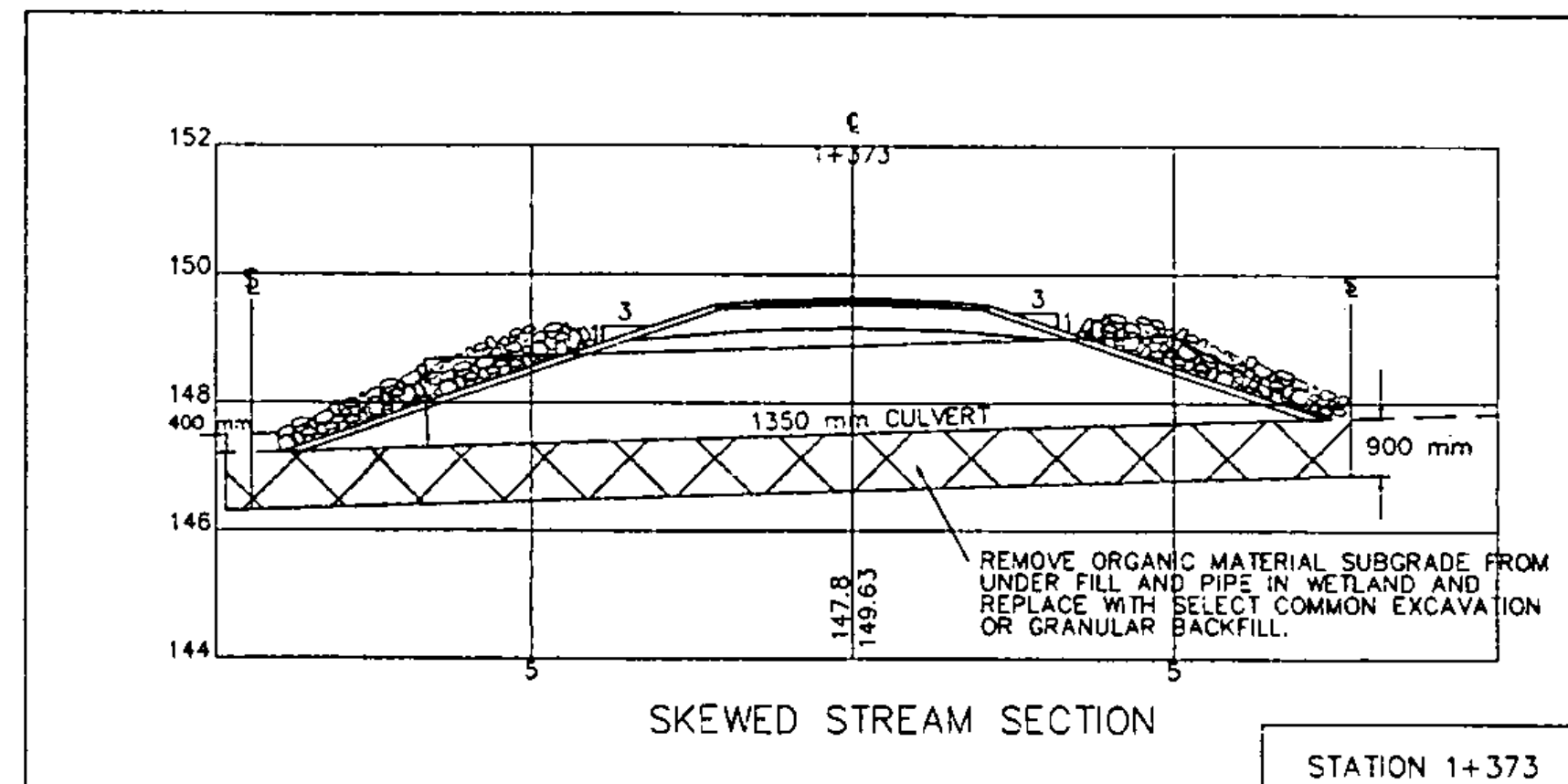


1 : 100

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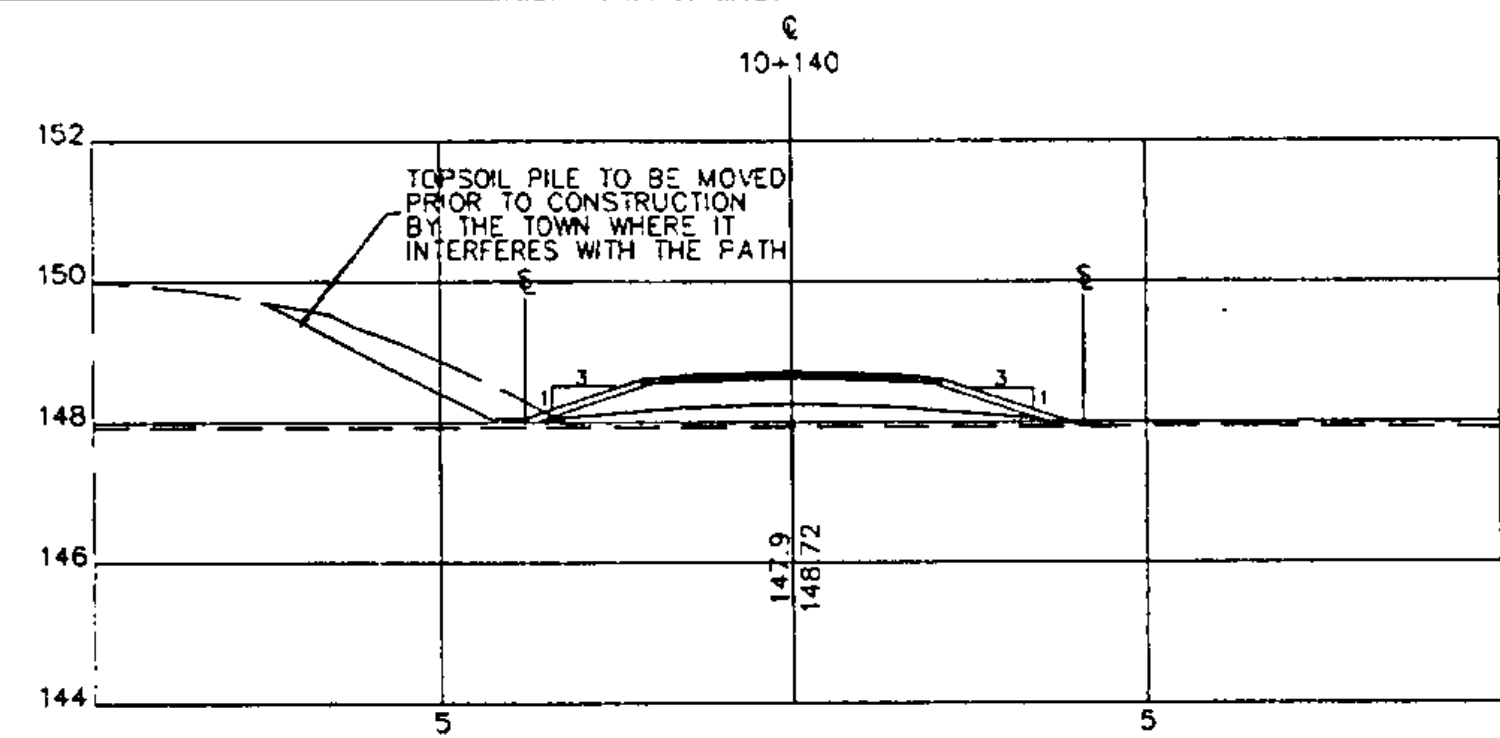
WILLISTON BIKE PATH
 JOB #: 93-064 STP BIKE (6)
 DRAWING #:
 19 OF 36



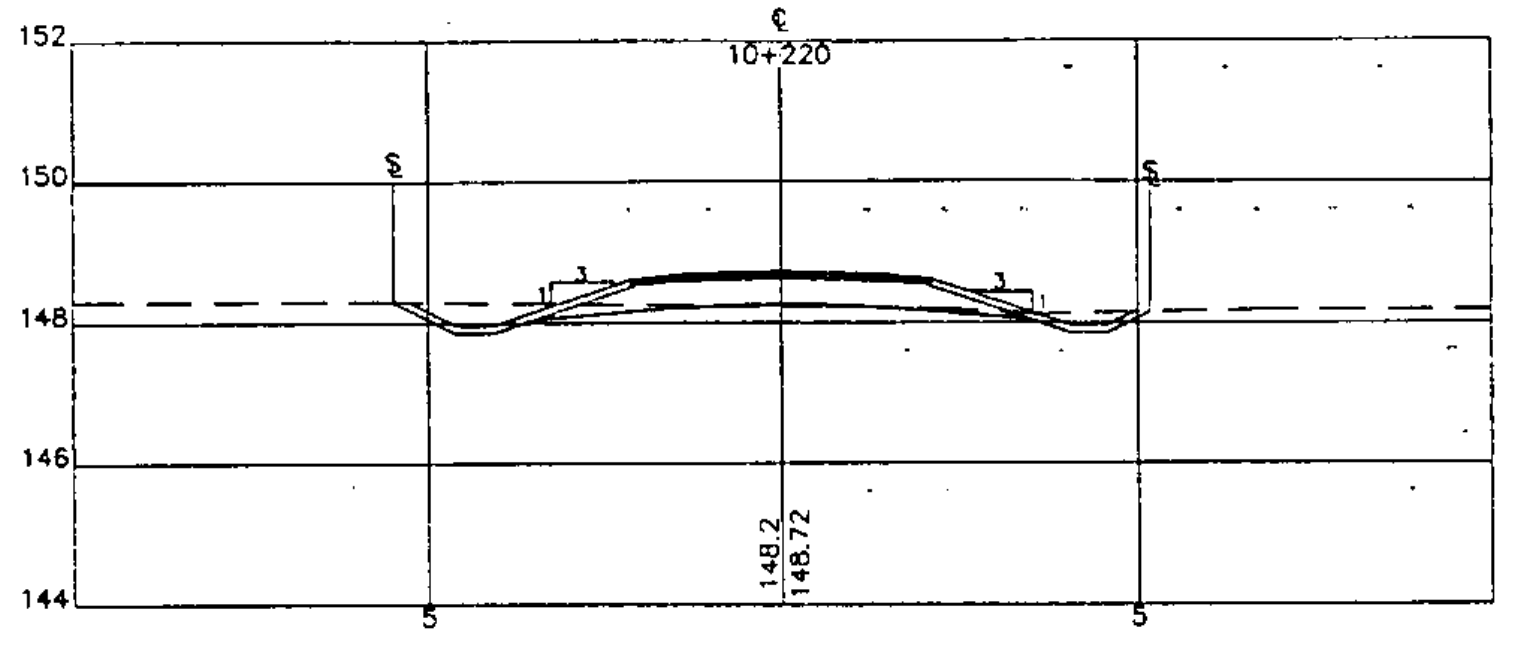
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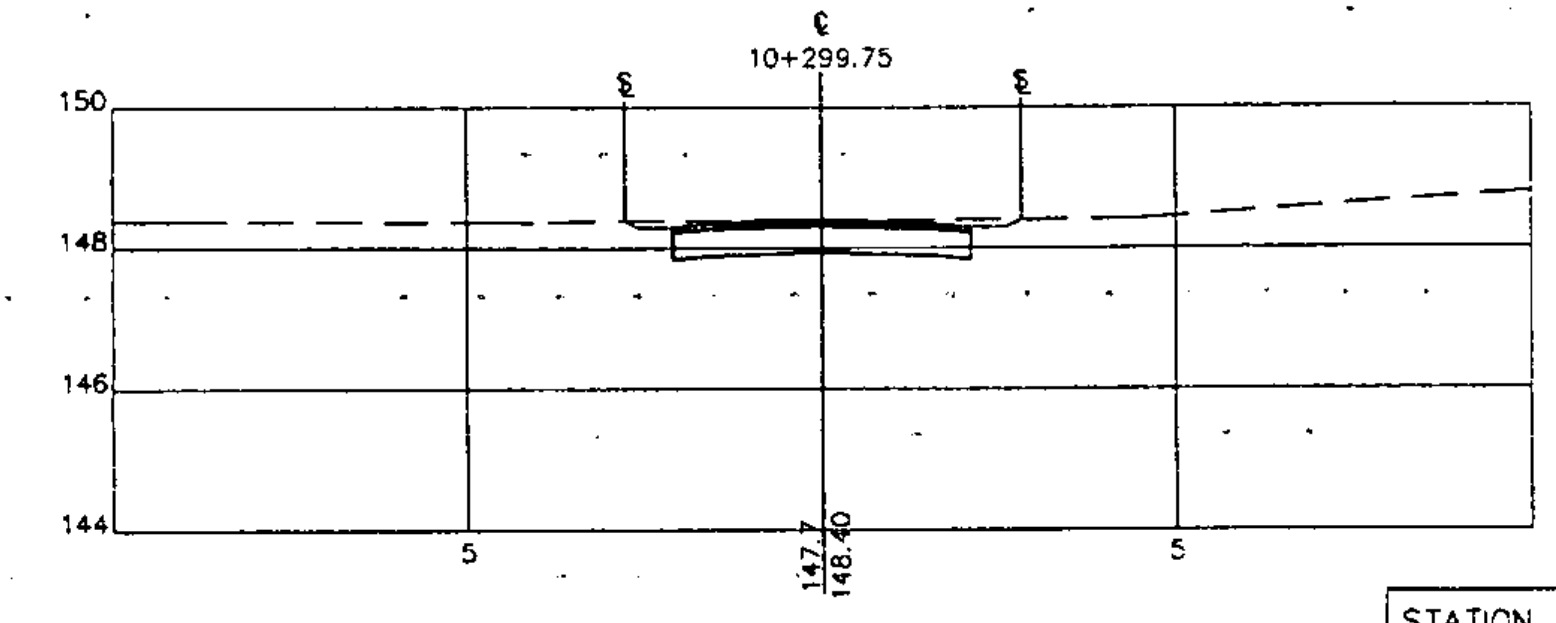
WILLISTON BIKE PATH
JOB #: STP BIKE (9) 93-064
DRAWING #:
20 OF 36



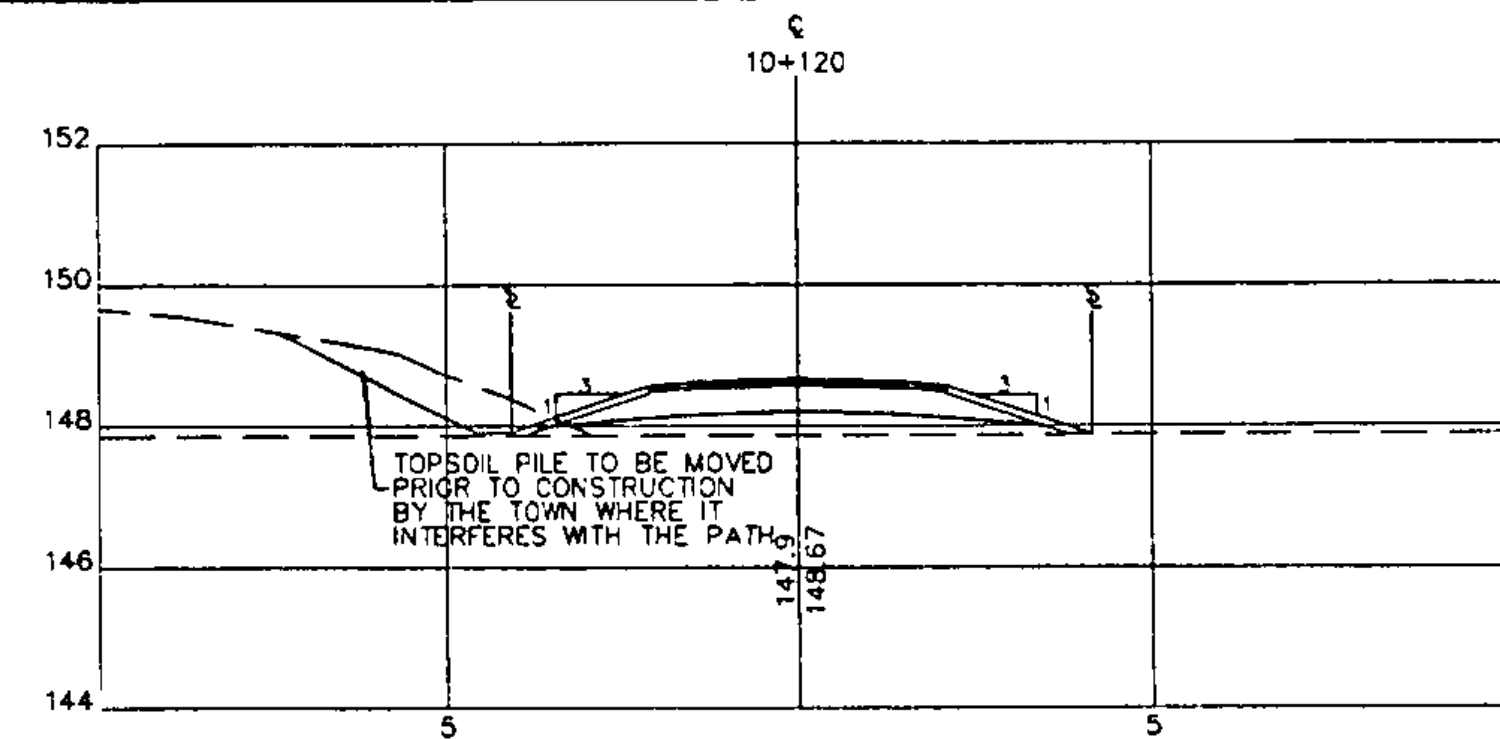
STATION 10+140



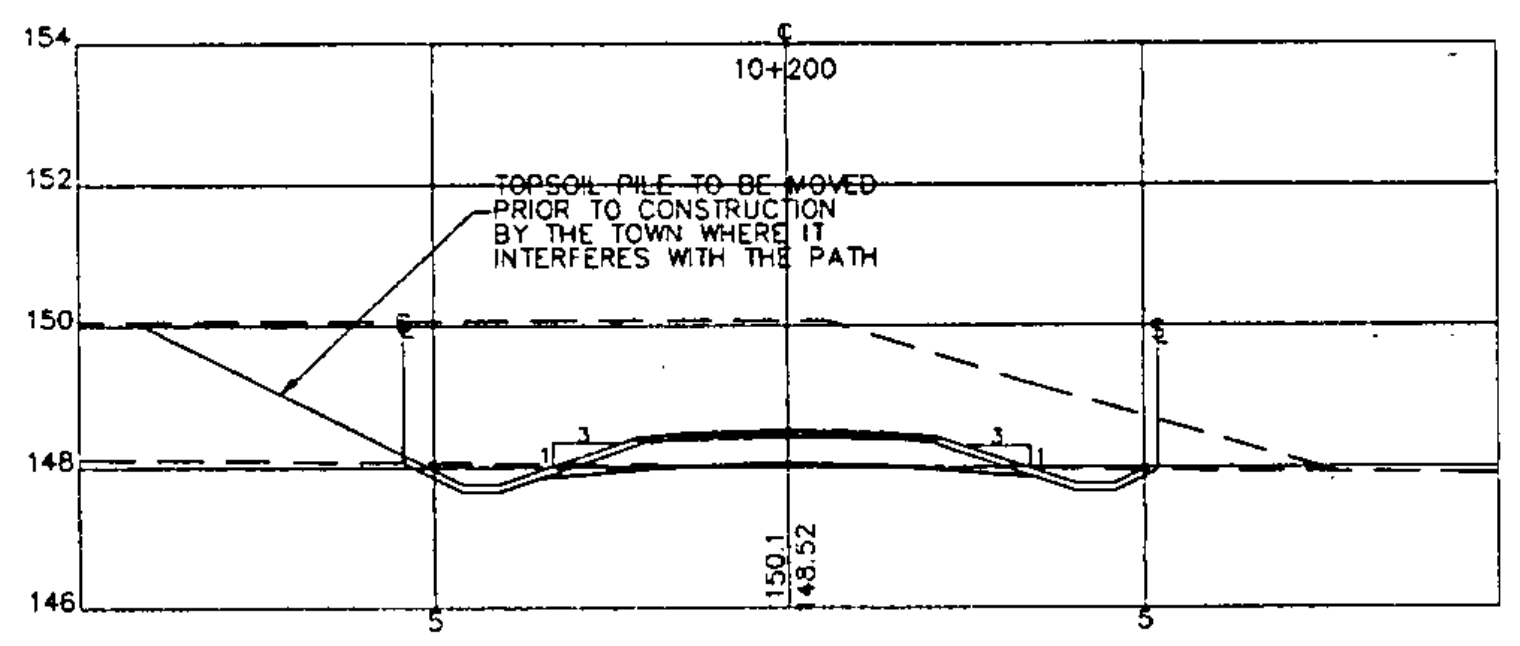
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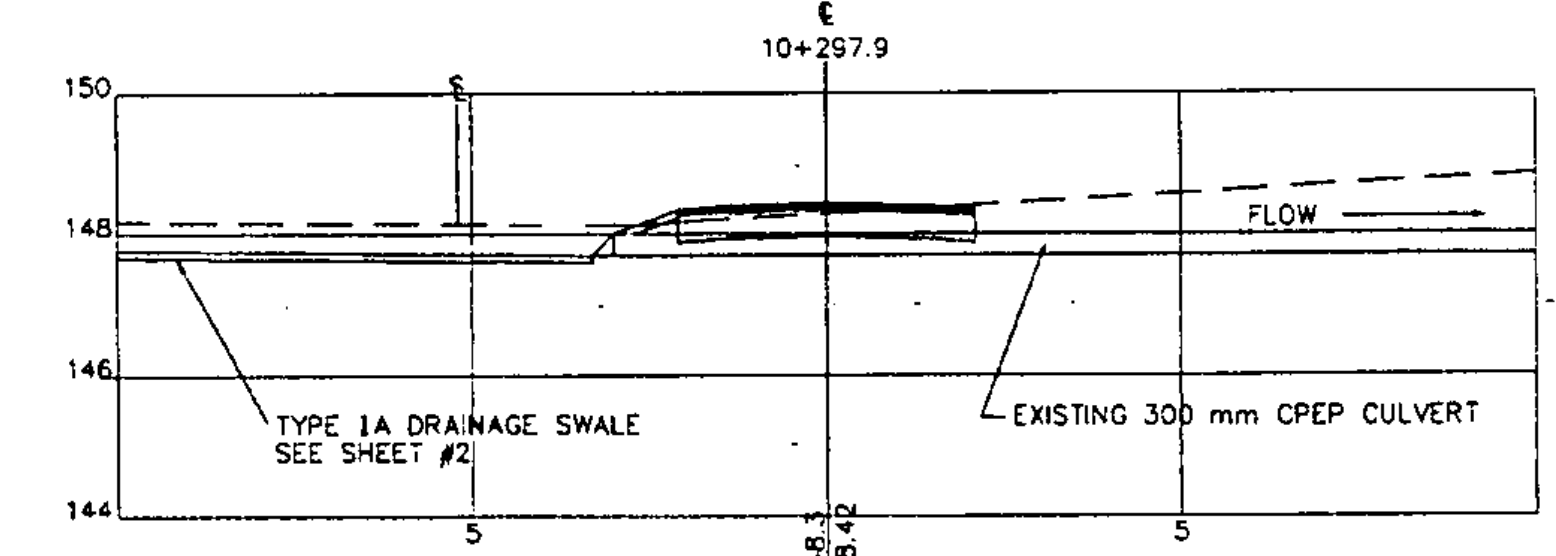
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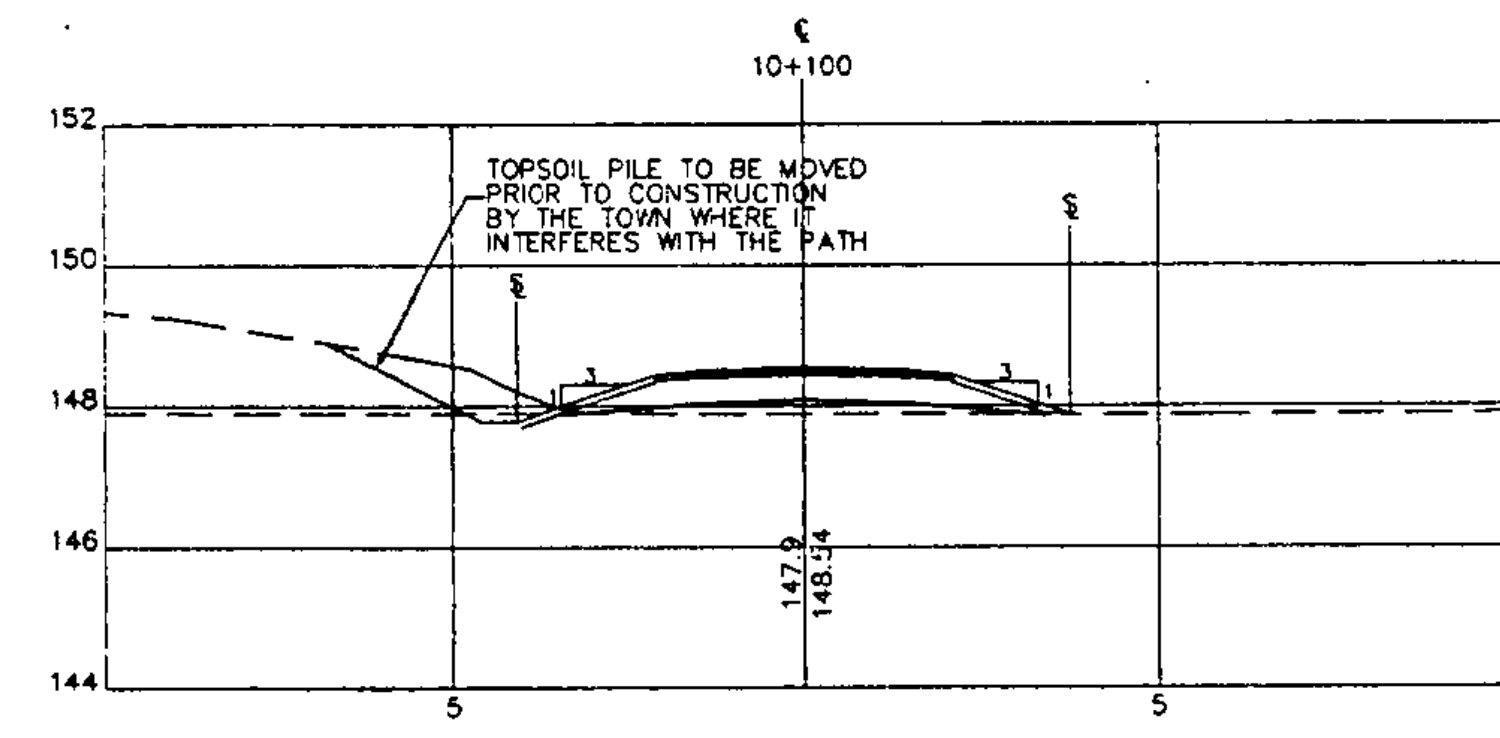
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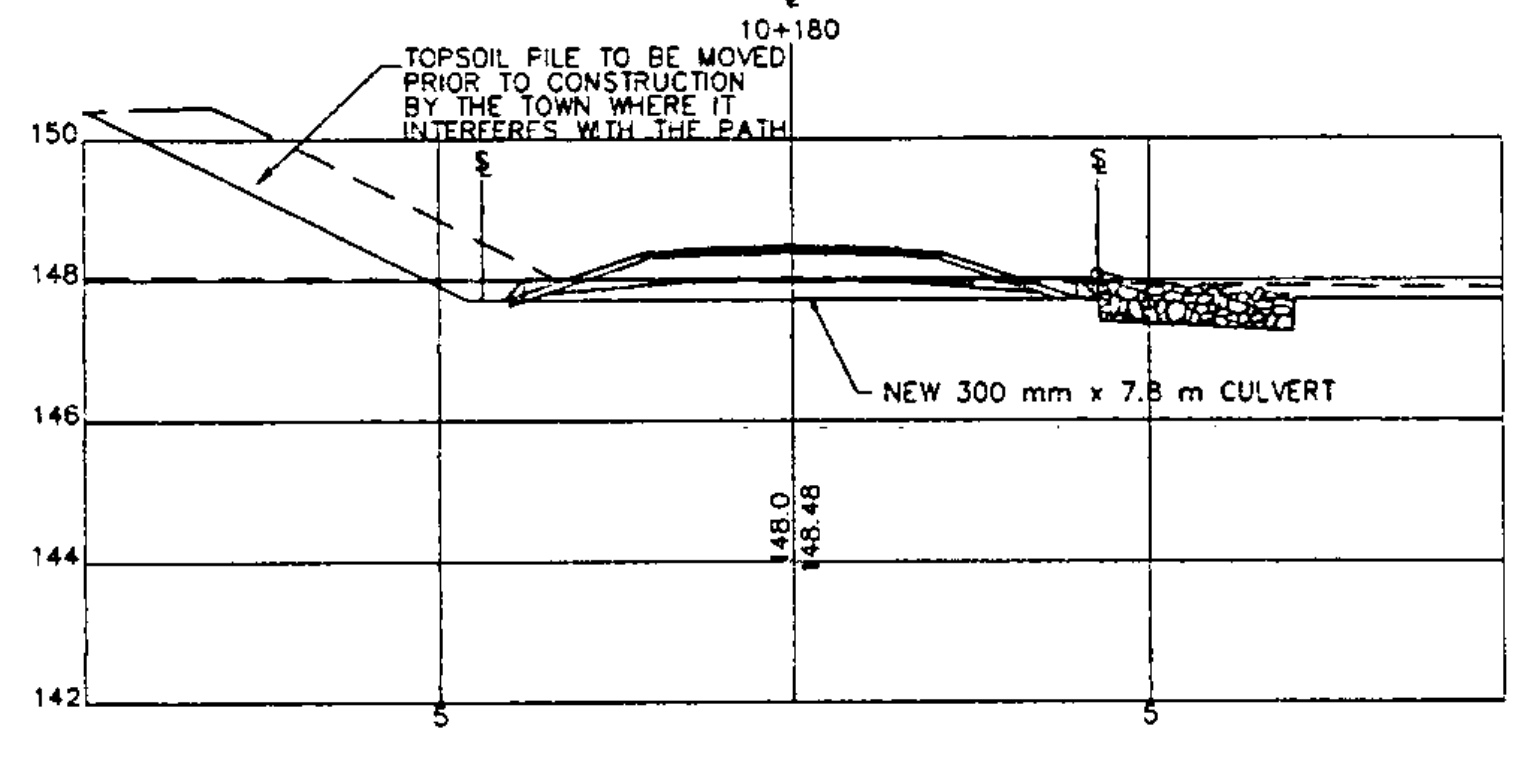
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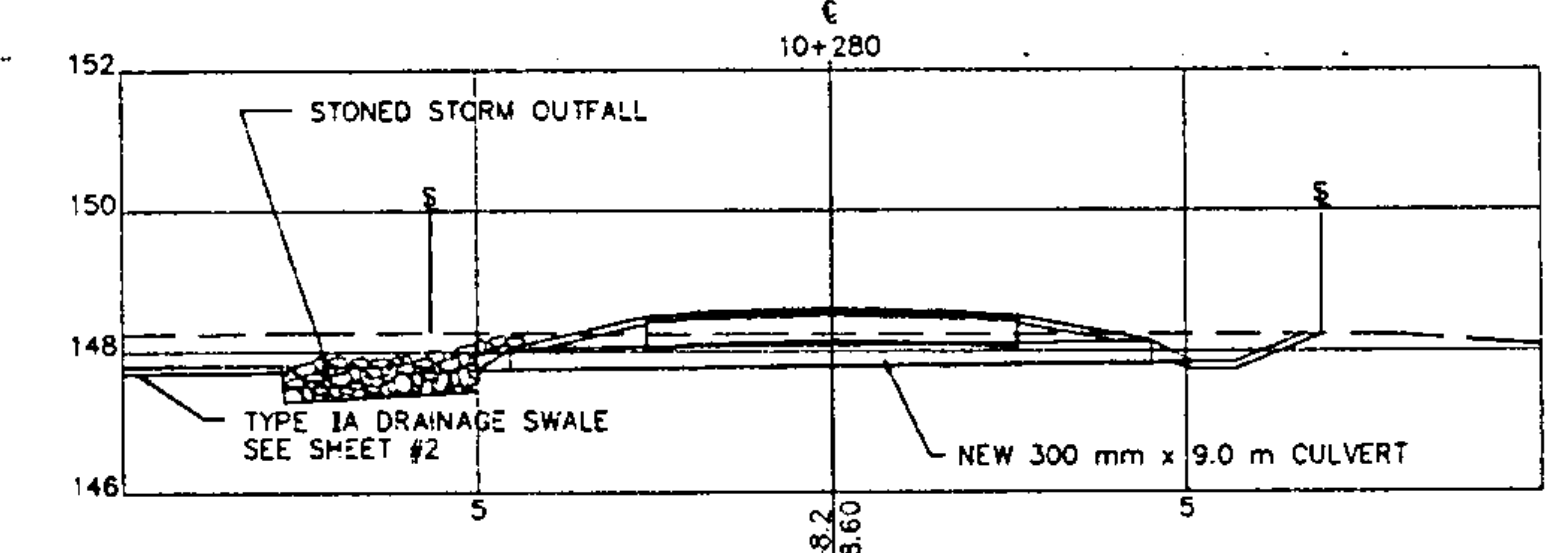
STATION 10+297.9



STATION 10+100

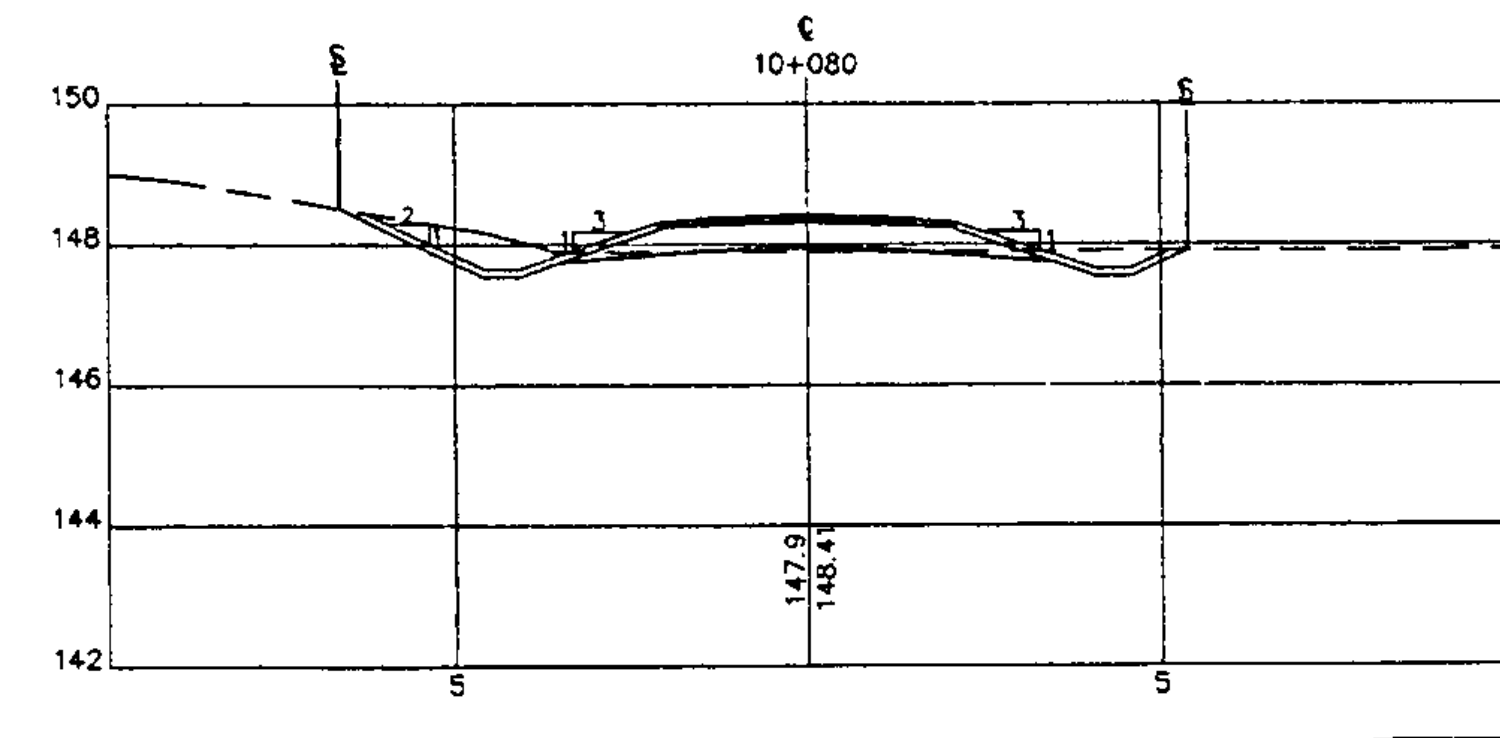


STATION 10+180

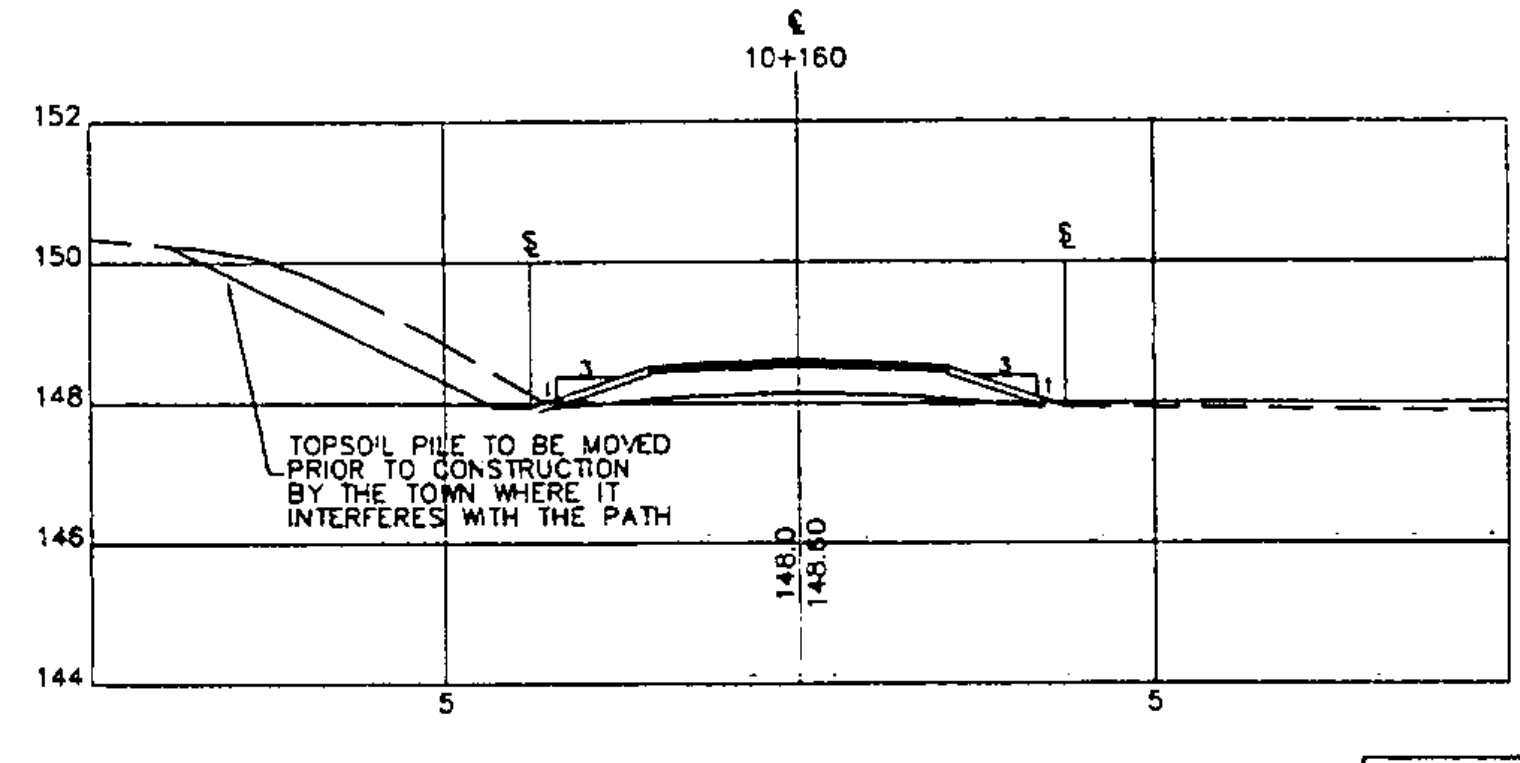


SKewed SECTION

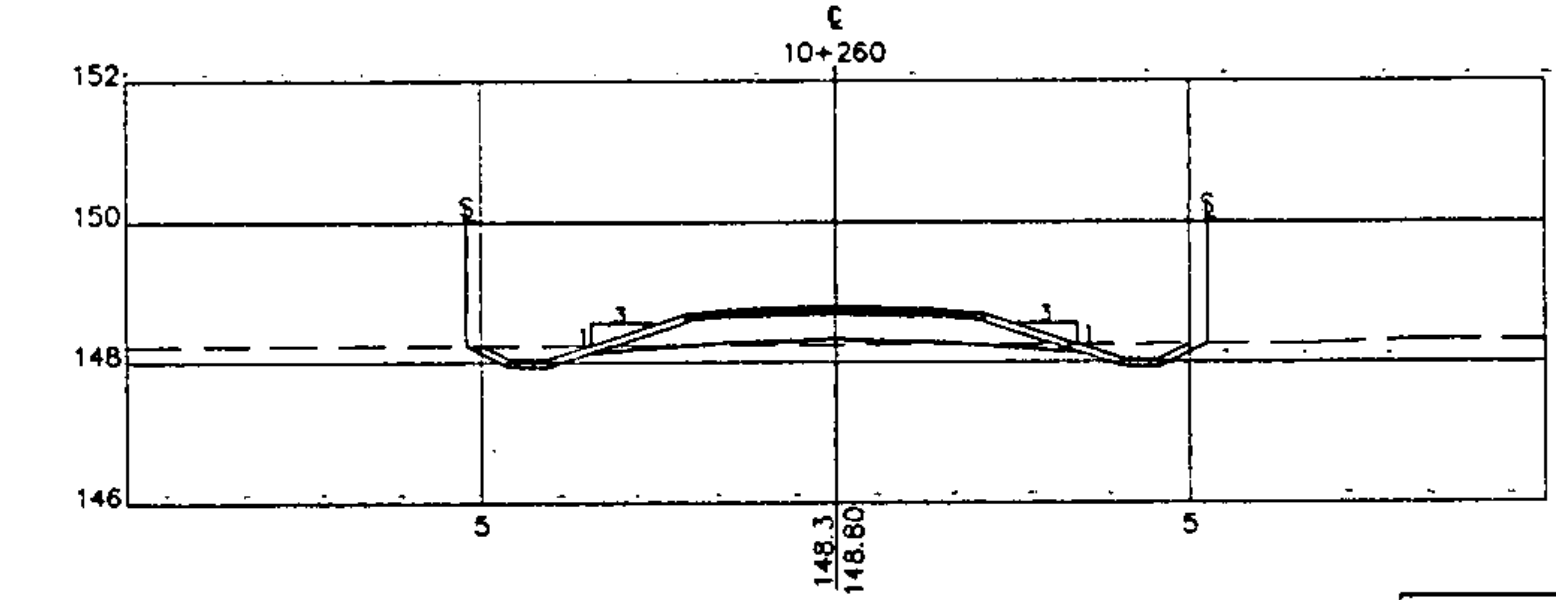
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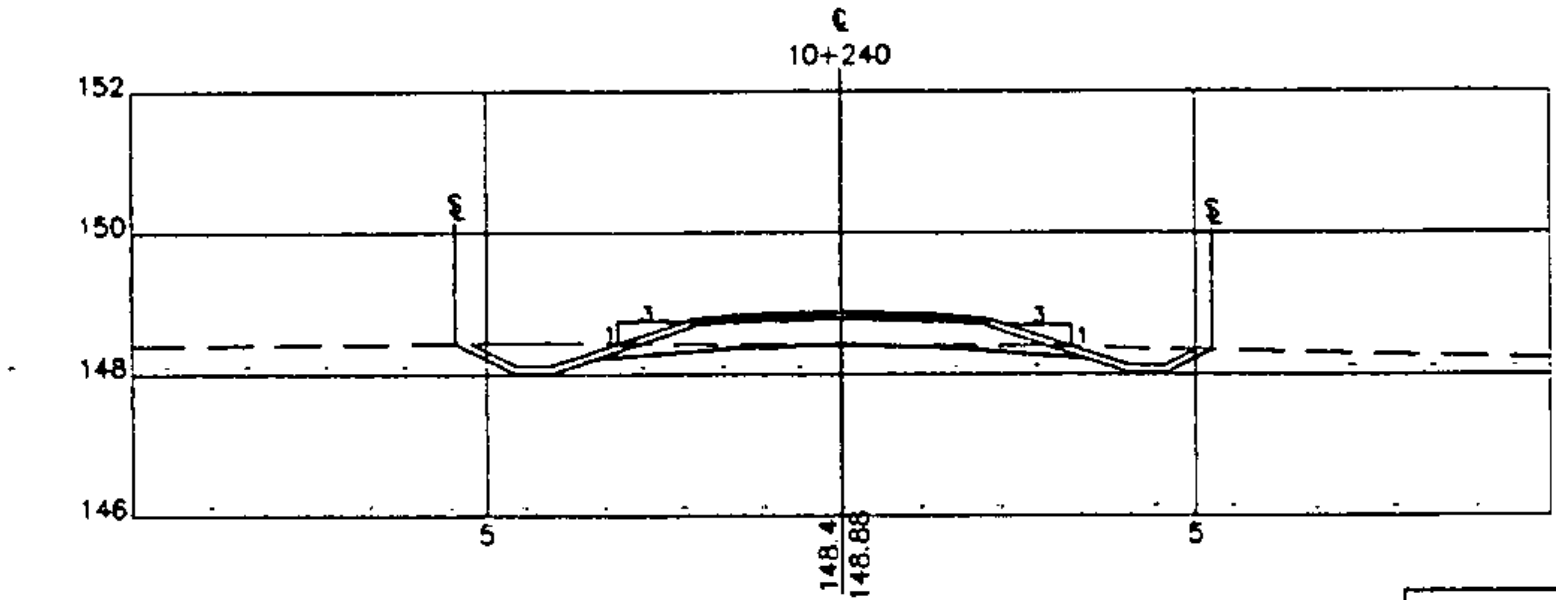
STATION 10+080



STATION 10+160



STATION 10+260



STATION 10+240

LEGEND

- SLOPE RIGHTS AND CLEARING LIMITS
- - - - - EXISTING GROUND

GRAPHIC SCALE

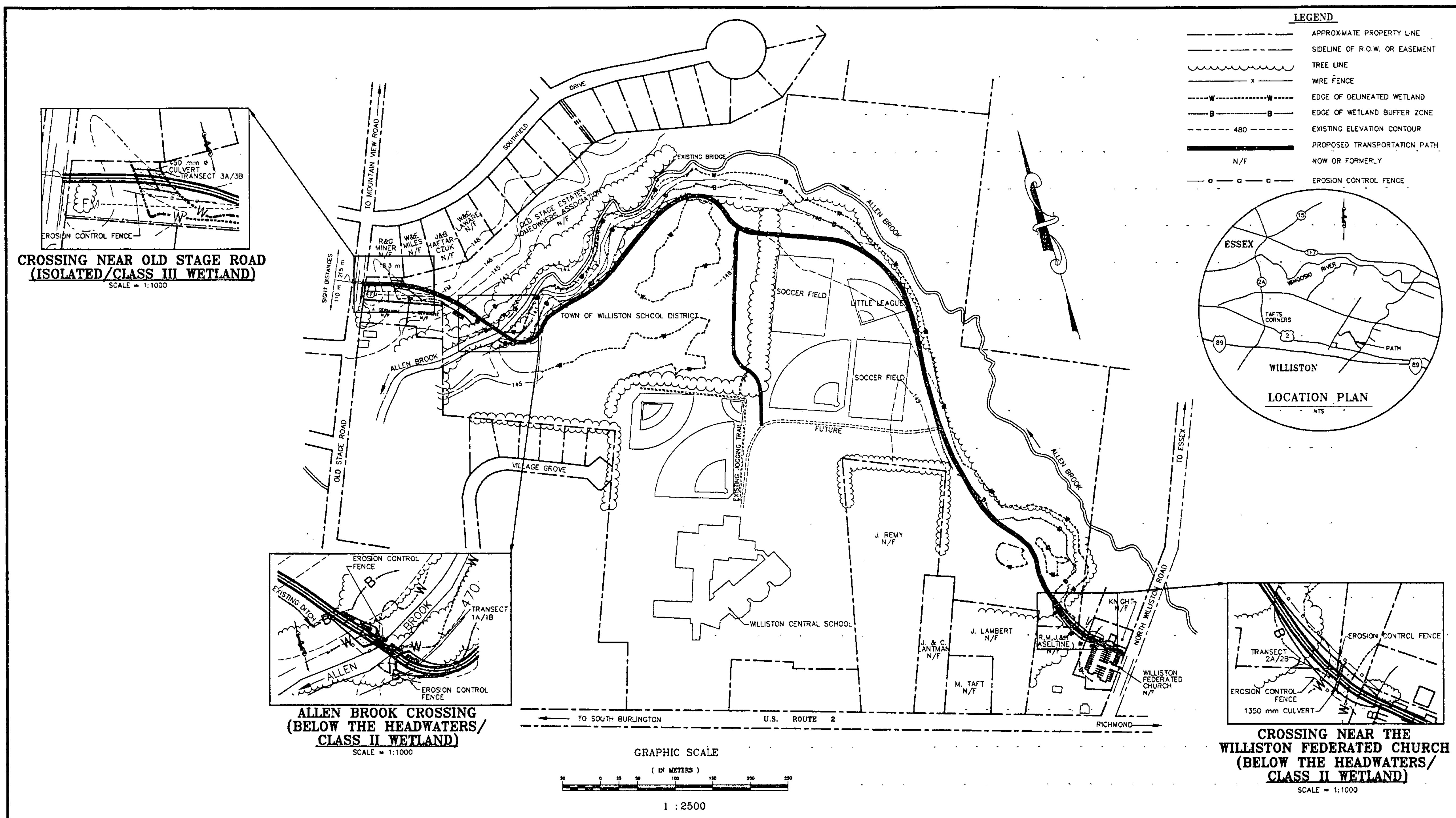


1 : 100

LAMOUREUX, STONE & O'LEARY
 Consulting Engineers Inc.
 14 Morse Drive
 Essex Junction, VT 05452
 (802) 878-4450
 Engineers-Planners-Surveyors



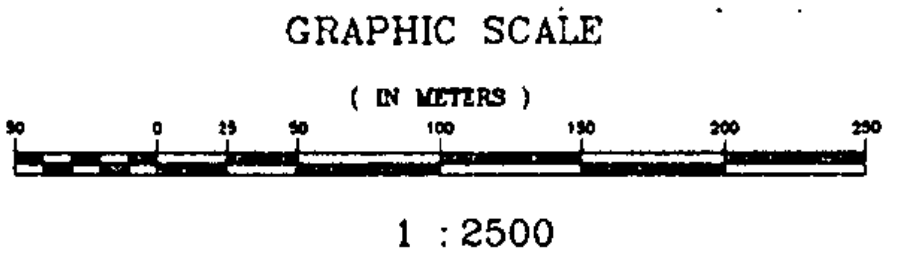
WILLISTON BIKE PATH
 JOB #: 93-064 STP-BIKE-(9)
 DRAWING #:
 21 OF 36



**CROSSING NEAR OLD STAGE ROAD
(ISOLATED/CLASS III WETLAND)**
SCALE = 1:1000

**ALLEN BROOK CROSSING
(BELOW THE HEADWATERS/
CLASS II WETLAND)**
SCALE = 1:1000

**CROSSING NEAR THE
WILLISTON FEDERATED CHURCH
(BELOW THE HEADWATERS/
CLASS II WETLAND)**
SCALE = 1:1000



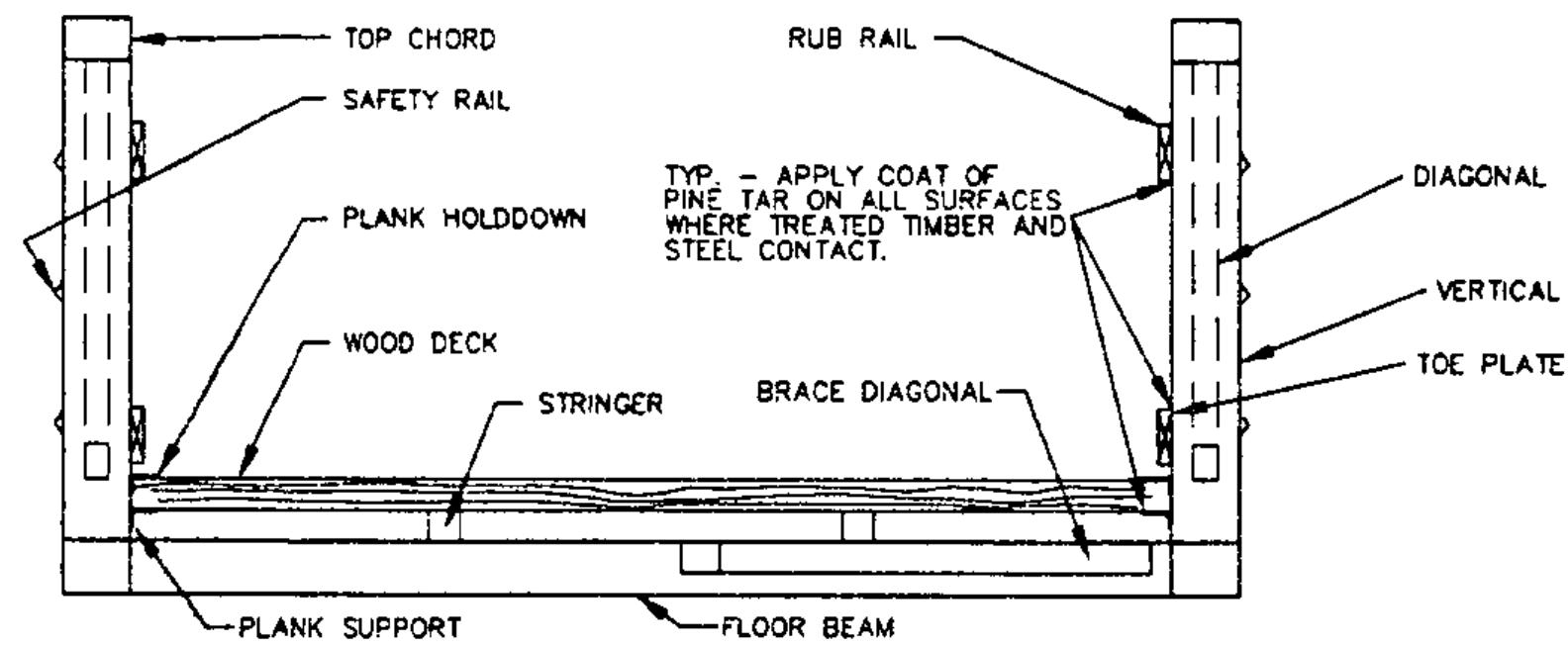
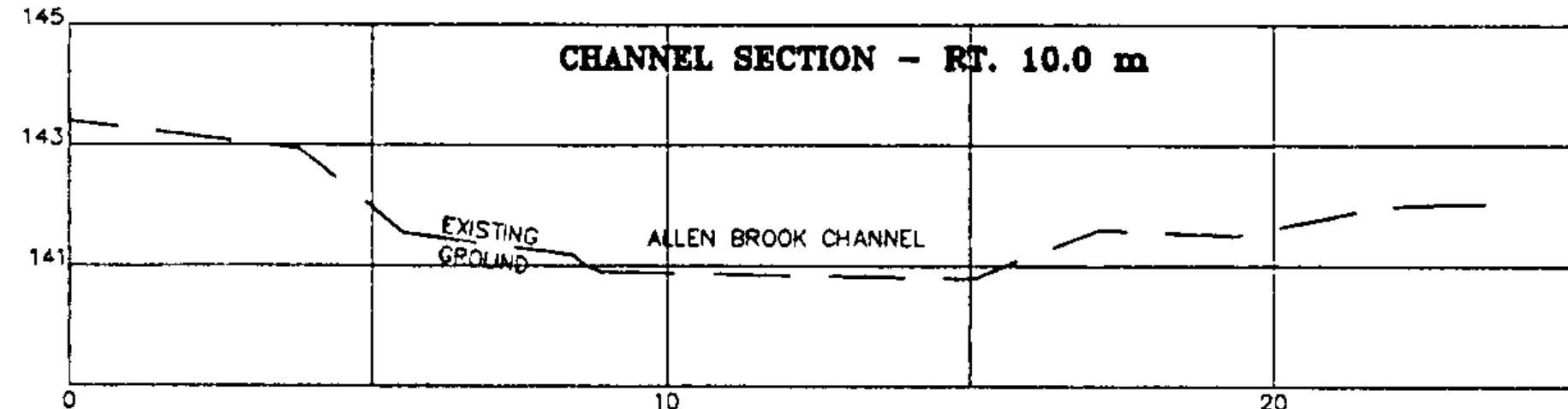
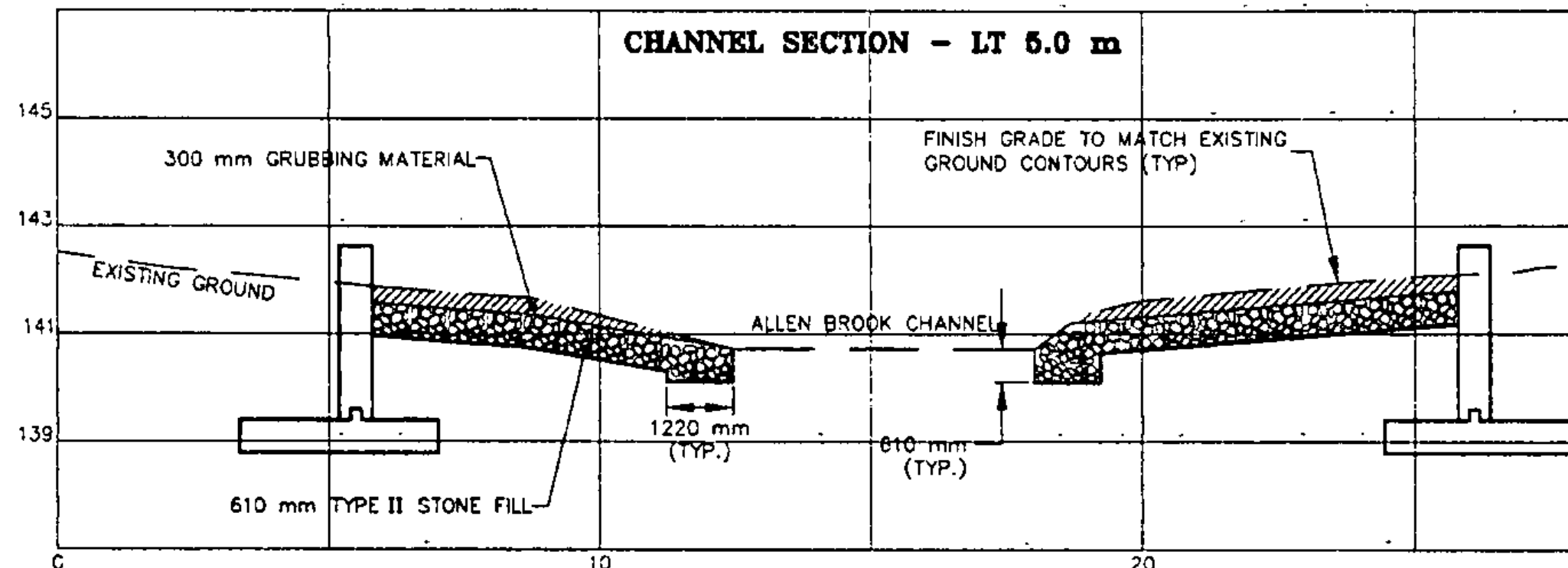
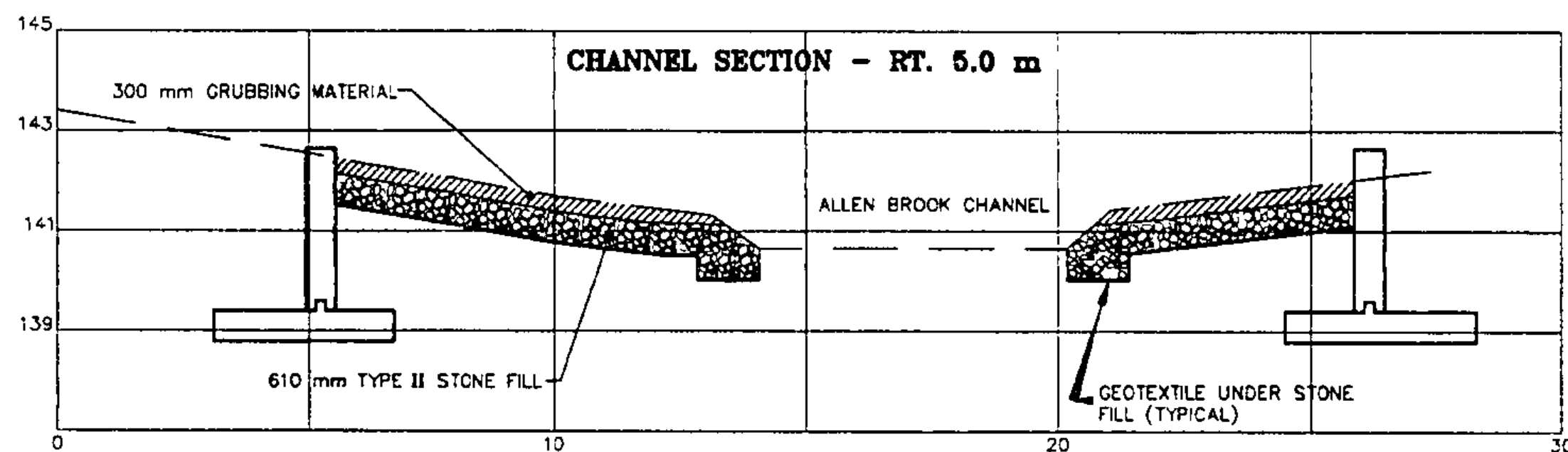
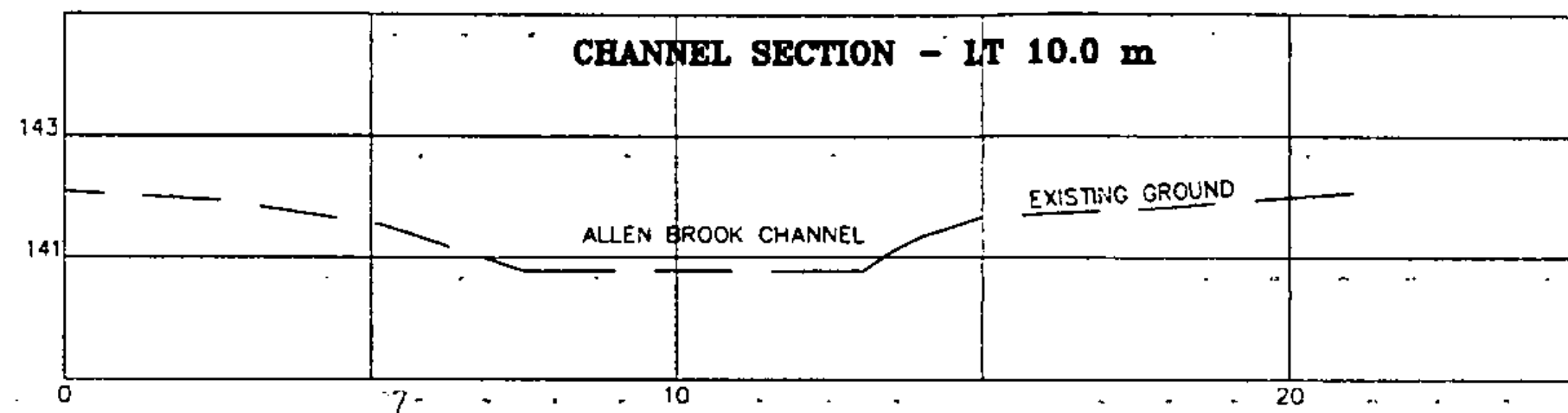
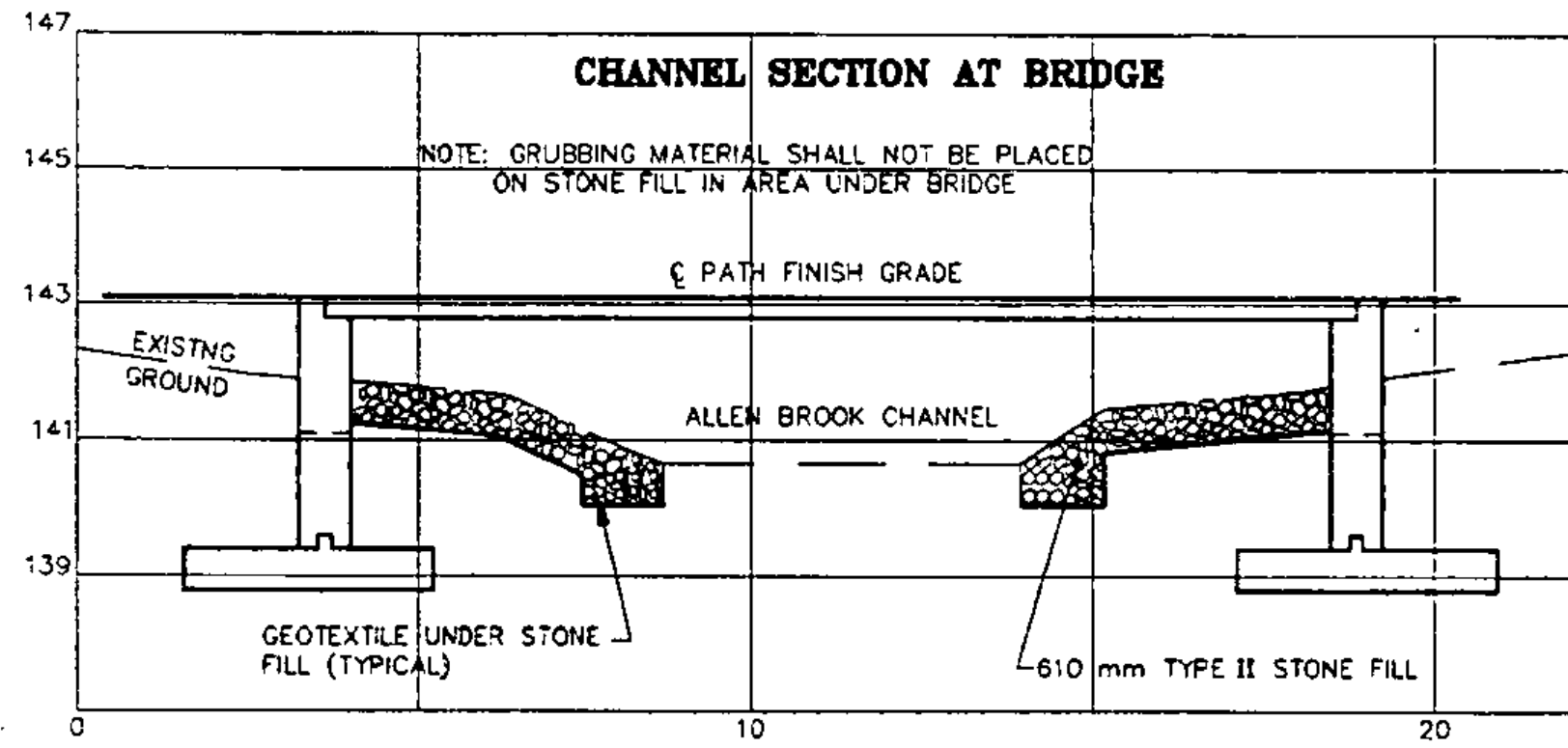
EROSION CONTROL SPECIFICATIONS

1. HEAVY EQUIPMENT SHALL BE KEPT OUT OF THE EXISTING WETLANDS WHENEVER POSSIBLE. ALL WORK AND CONSTRUCTION ACTIVITY IN EXISTING WETLANDS SHALL BE CARRIED OUT ON TIMBER MATS. REMOVE ALL MATS UPON COMPLETION OF CONSTRUCTION (TIMBER MATS SHALL BE SUBSIDIARY TO MUCK EXCAVATION)
2. A TEMPORARY EROSION CONTROL FENCE AS SHOWN IN THE DETAIL ON SHEET #3 SHALL BE INSTALLED AROUND BRIDGE ABUTMENTS AND ALL CULVERT ENDS BEFORE CONSTRUCTION BEGINS. REMOVE EROSION CONTROL FENCE WHEN VEGETATION HAS BECOME ESTABLISHED.
3. THERE SHALL BE NO ALTERATION, DISTURBANCE, DEVELOPMENT, OR OTHER ACTIVITIES WITHIN THE EXISTING WETLANDS OR BUFFER ZONES EXCEPT AS SHOWN ON THE PLANS.
4. NO FILL MATERIAL SHALL BE DISPOSED OF IN WETLANDS OR IN SUCH A WAY THAT ERODED MATERIAL ENTERS WETLANDS.

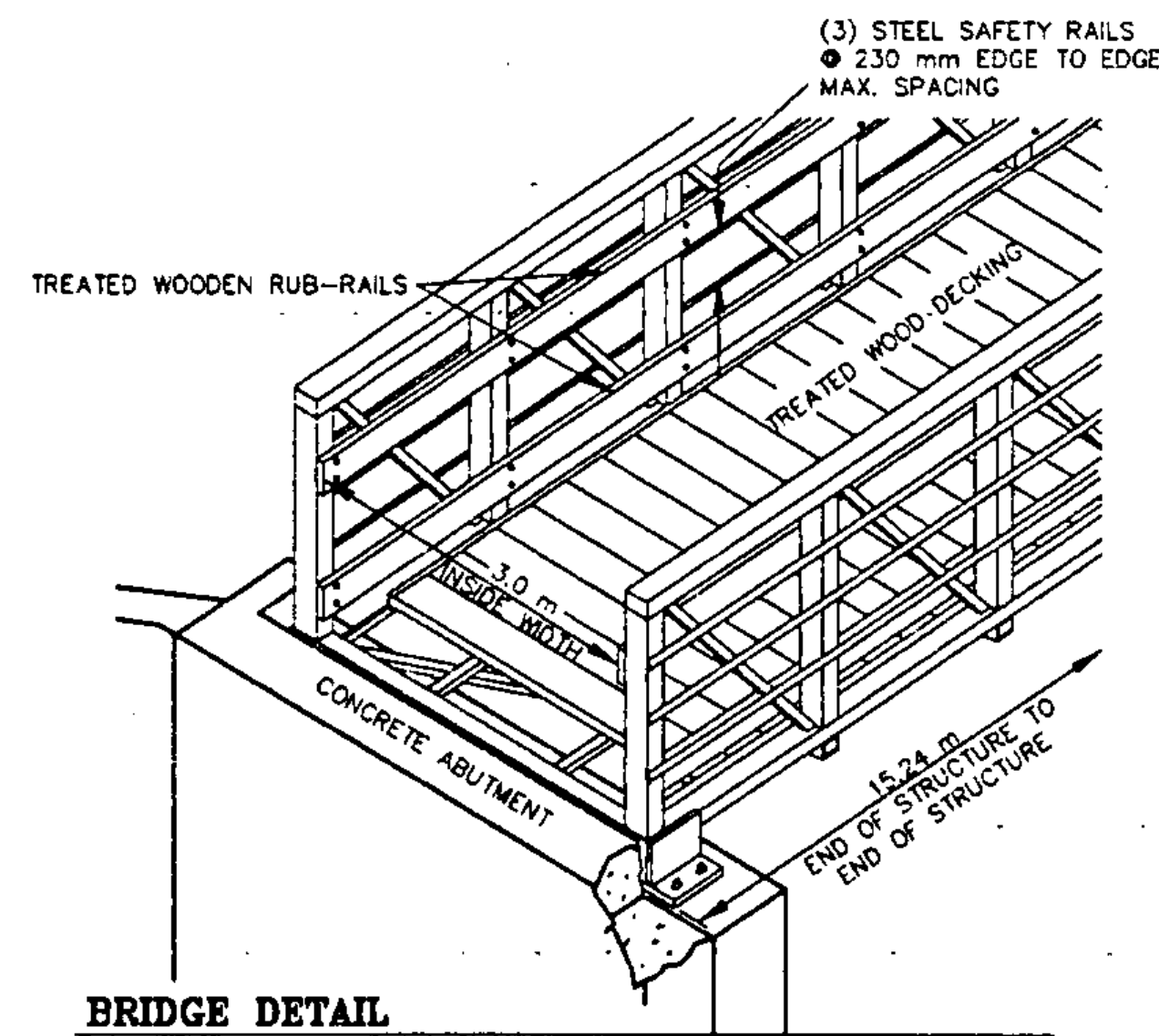
Metric



5-2-95	REVISED PER STATE REVIEW	DLH
6-30-94	REVISED PER STATE REVIEW	DLH
date1-25-94 desc.	REVISED PER STATE REVIEW	by ABR
REVISIONS		
STATE OF VERMONT AGENCY OF TRANSPORTATION		proj. no. 92-064
WETLAND PLAN WILLISTON STP BIKE (9) TRANSPORTATION PATH		survey BFD/HLS
LAMOUREUX, STONE & O'LEARY Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 874-4450		design LAL
Engineers-Planners-Surveyors		drawn BJT
		checked LAL/DWB
		date 12-1-93
		scale AS SHOWN
		sheet no. 22 OF 36



BRIDGE CROSS-SECTION
NTS



BRIDGE DETAIL
NTS

STEEL PEDESTRIAN BRIDGE PERFORMANCE SPECIFICATIONS AND DETAILS

THESE SPECIFICATIONS ARE FOR A COMPLETE, FULLY ENGINEERED CLEAR SPAN BRIDGE OF STEEL CONSTRUCTION AND SHALL BE REGARDED AS MINIMUM STANDARDS FOR DESIGN AND CONSTRUCTION.

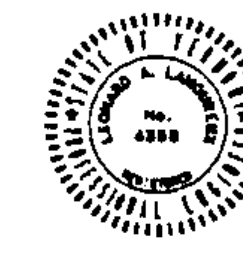
- SPAN AND WIDTH**
- STRUCTURE LENGTH (STRAIGHT LINE DIMENSION) SHALL BE 15.24 m.
 - BRIDGE INSIDE DECK WIDTH SHALL BE 3.0 m.
- ENGINEERING**
- UNIFORM LIVE LOAD:
MINIMUM UNIFORM LIVE LOAD OF 4.069 kPa.
 - VEHICLE LOAD:
VEHICLE LOAD SHALL BE AS FOR AASHTO STANDARD DESIGN TRUCK M9.
 - ALLOWABLE DESIGN STRESSES:
BRIDGE APPLICATIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) - 15TH EDITION WITH CURRENT INTERIMS.
 - WELDED TUBULAR STRUCTURE DESIGN SHALL BE IN ACCORDANCE WITH THE STRUCTURAL WELDING CODE (ANS/AWS D11-94)-CHAPTER 10, TUBULAR STRUCTURES.

- GEOMETRY**
- LOW PROFILE DESIGN WITHOUT OVERHEAD MEMBERS.
 - RAILING HEIGHT:
RAILING HEIGHT SHALL BE PER AASHTO GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES.
 - DIAGONALS:
ONE DIAGONAL PER PANEL.
 - CAMBER:
THE BRIDGE SHALL BE CAMBERED TO OFFSET FULL DEAD LOAD DEFLECTION PLUS 50 mm PERMANENT.

- MATERIALS**
- BRIDGE SHALL BE FABRICATED FROM HIGH STRENGTH, SELF-WEATHERING, LOW ALLOY, ATMOSPHERIC CORROSION RESISTANT ASTM A572 COLD-FORMED WELDED SQUARE AND RECTANGULAR TUBING OR AASHTO M270 M, GRADE 345 W, A588, ASTM A606, OR ASTM A242 PLATE AND STRUCTURAL STEEL SHAPES (FY = 345 MPa).
 - STEEL ATTACHMENTS:
 - CONTINUOUS LIFE SAFETY RAILS (MAXIMUM CLEAR OPENINGS OF 230 mm).
 - WOOD ATTACHMENTS:
 - NOMINAL 50 mm X 150 mm WOOD RUB RAILS ON INSIDE OF BRIDGE, PLACED 950 mm ABOVE TOP OF DECK.
 - CONTINUOUS 150 mm HIGH TOE PLATE, 40 mm ABOVE DECK LEVEL.

- FINISHING**
- ALL CONTACTS BETWEEN TREATED WOOD AND SELF-WEATHERING STEEL SHALL BE TREATED WITH PINE TAR TO PREVENT CORROSION.

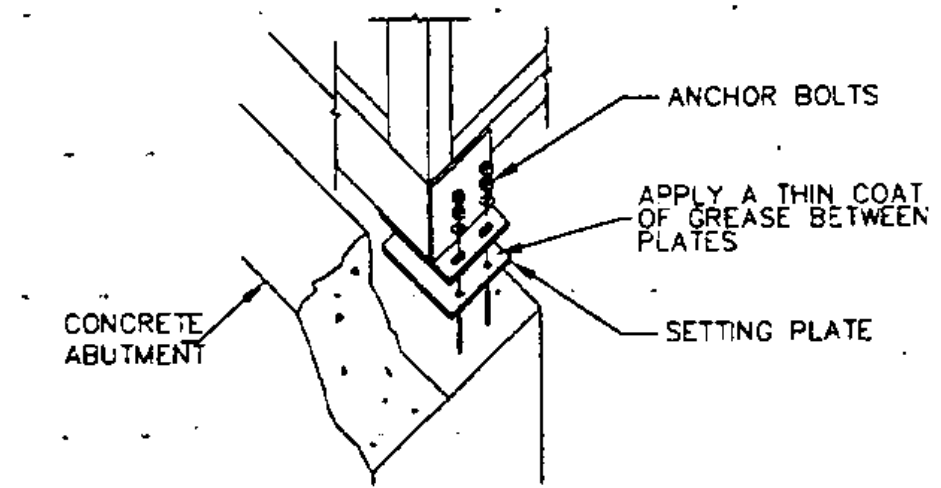
NOTE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.



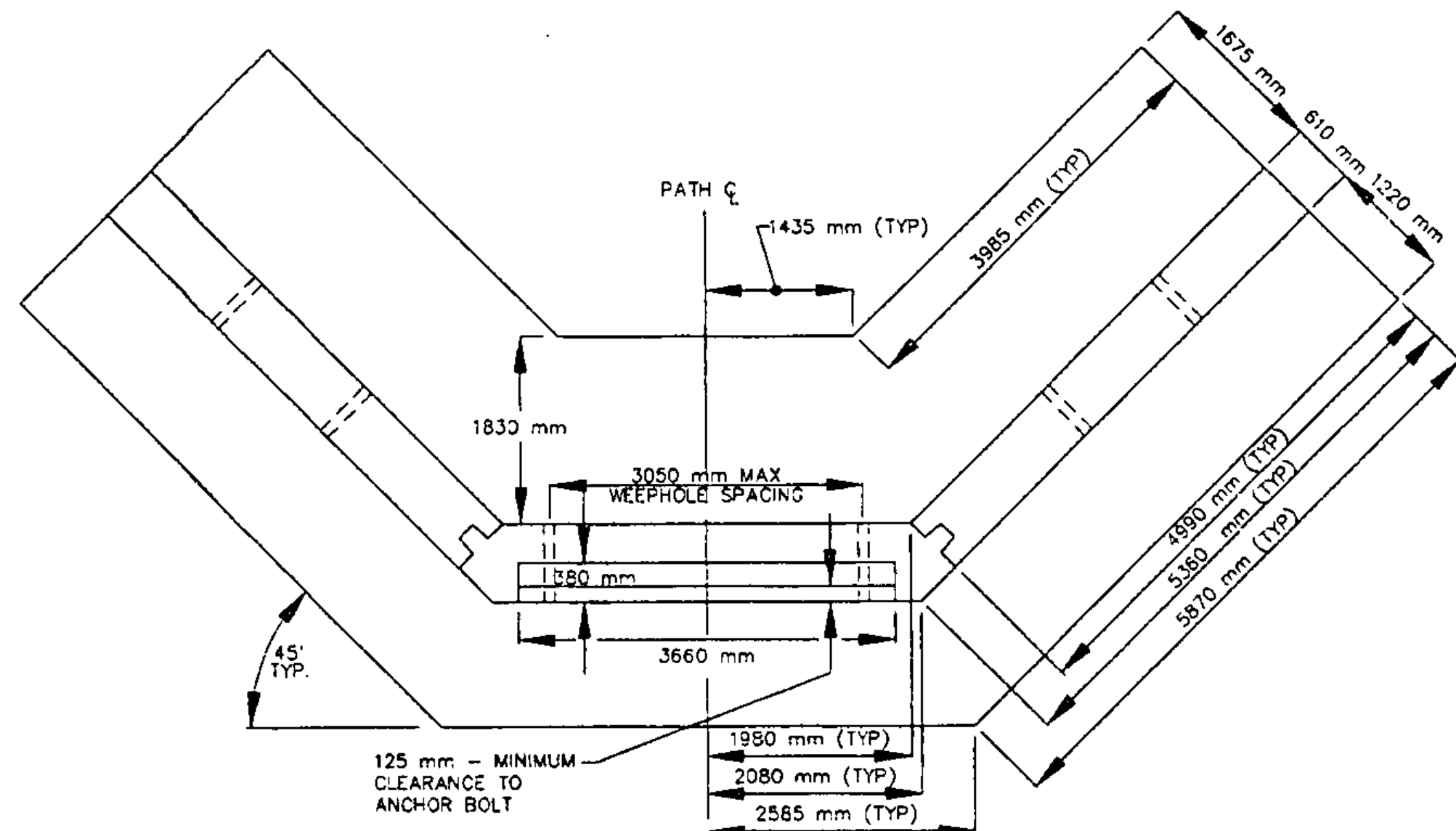
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date	description	by
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8-30-95	MSC. REVISIONS PER STATE REVIEW OF HYDRAULICS	ABR
5-2-95	MSC. REVISIONS PER STATE REVIEW OF HYDRAULICS	DLH
9/7/94	MSC. REVISIONS PER STATE REVIEW OF HYDRAULICS	KAS
REVISIONS		
STATE OF VERMONT AGENCY OF TRANSPORTATION		Proj. no. 93-064
TRANSPORTATION PATH WILLISTON STP BIKE (9) IN WILLISTON VERMONT		Survey HLS/ABR Design KAS/LAL Drawn KAS/ABR Checked DLH/LAL Gate 2-2-94 Scale AS NOTED
LAMOUREUX, STONE & O'LEARY Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450		Sht. no. 24 OF 36
Engineers-Planners-Surveyors		

NOTE: BACKWALL HEIGHT/BEARING SEAT ELEVATION AND ANCHOR BOLT PLACEMENT TO BE VERIFIED WITH SHOP DRAWINGS FOR EXACT BRIDGE SELECTED. CONTRACTOR TO VERIFY DISTANCE FROM THE CENTERLINE OF THE BRIDGE SEAT TO THE BACKWALL LOCATION OF SUBSTRUCTURE MAY VARY WITH BRIDGE SELECTED.

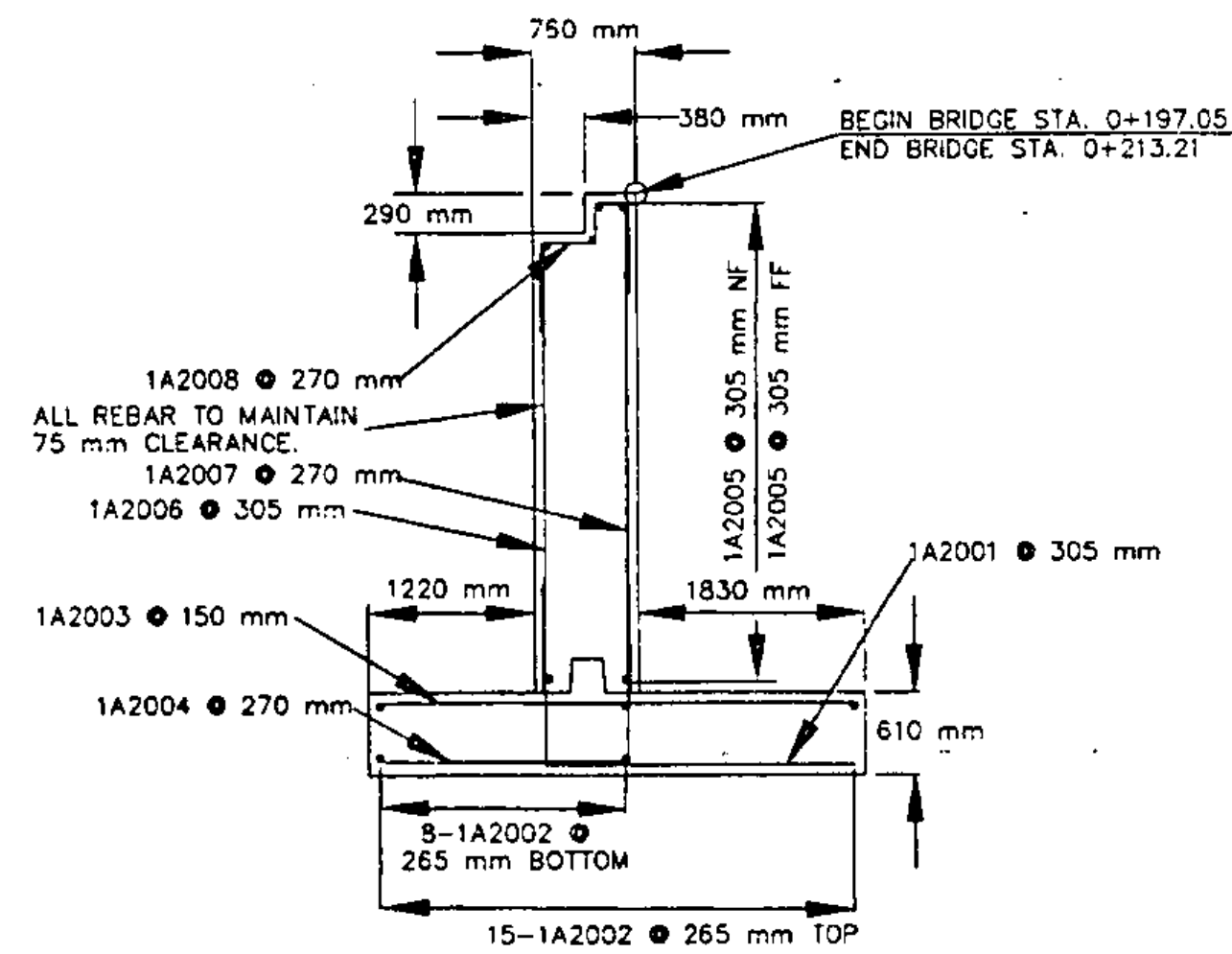


INSTALLING BRIDGE ON ABUTMENTS
NTS



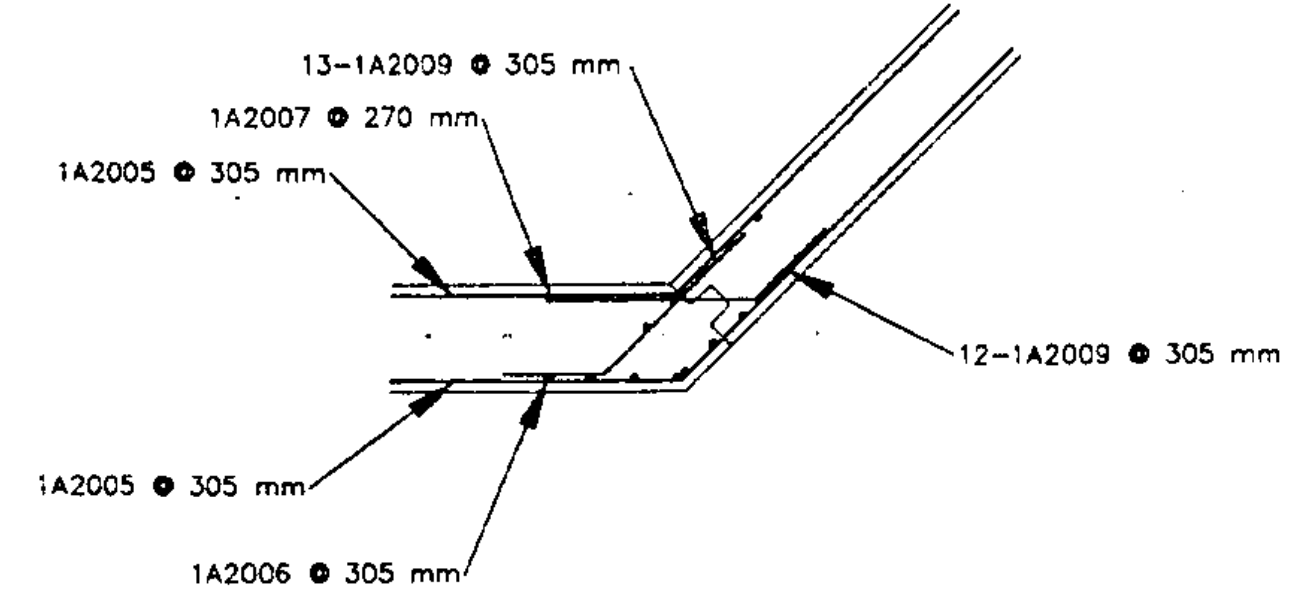
ABUTMENT PLAN

SCALE 1:50



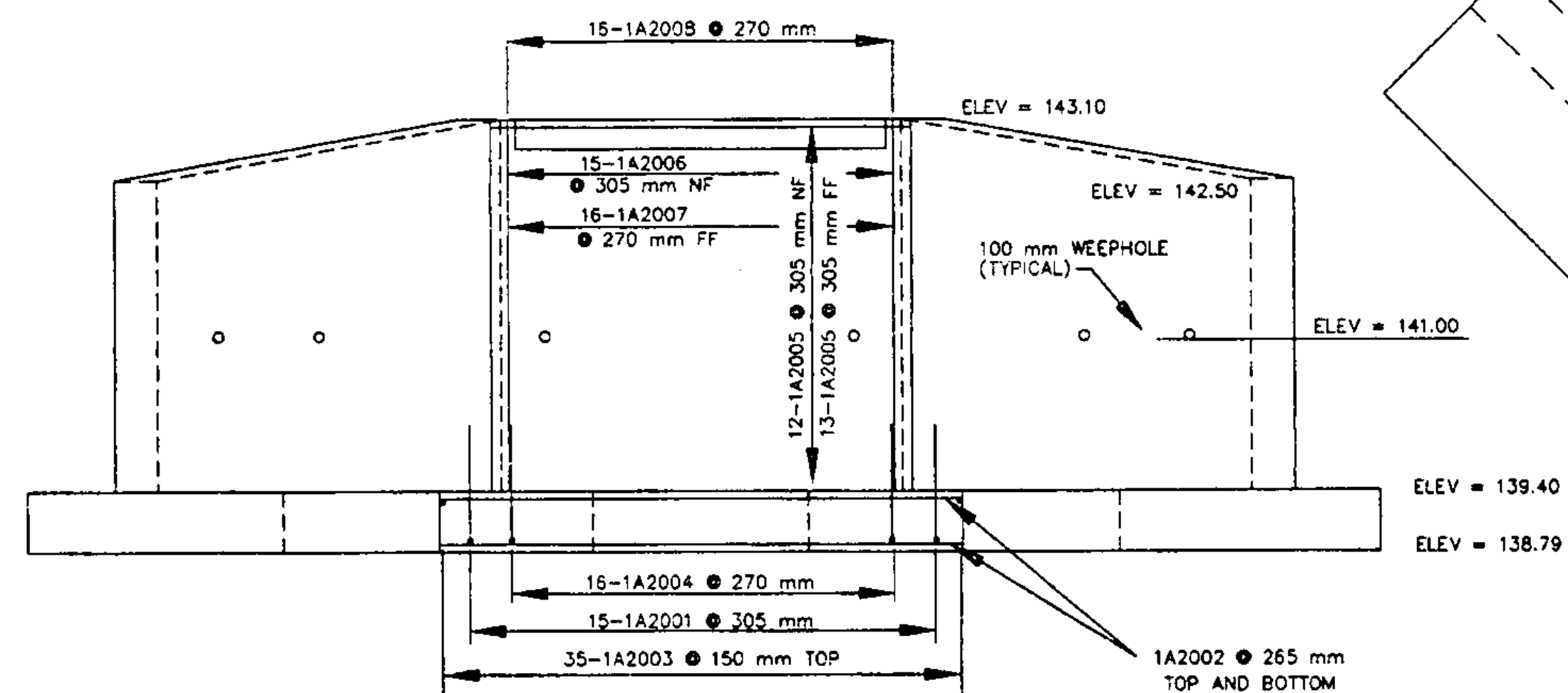
ABUTMENT TYPICAL

SCALE 1:50



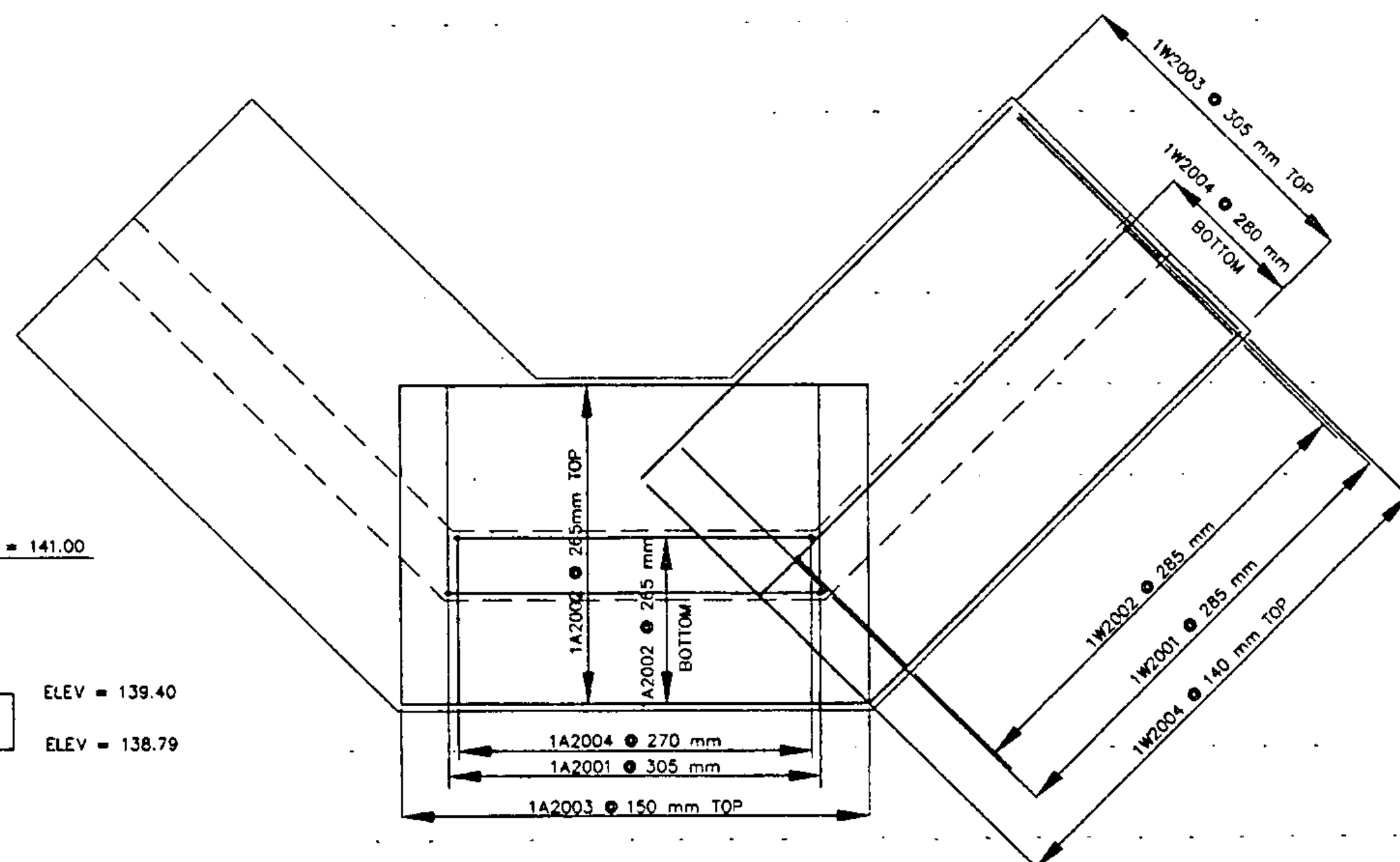
CORNER DETAIL

NTS



ABUTMENT ELEVATION

SCALE 1:50



FOOTING REINFORCING PLAN

SCALE 1:50

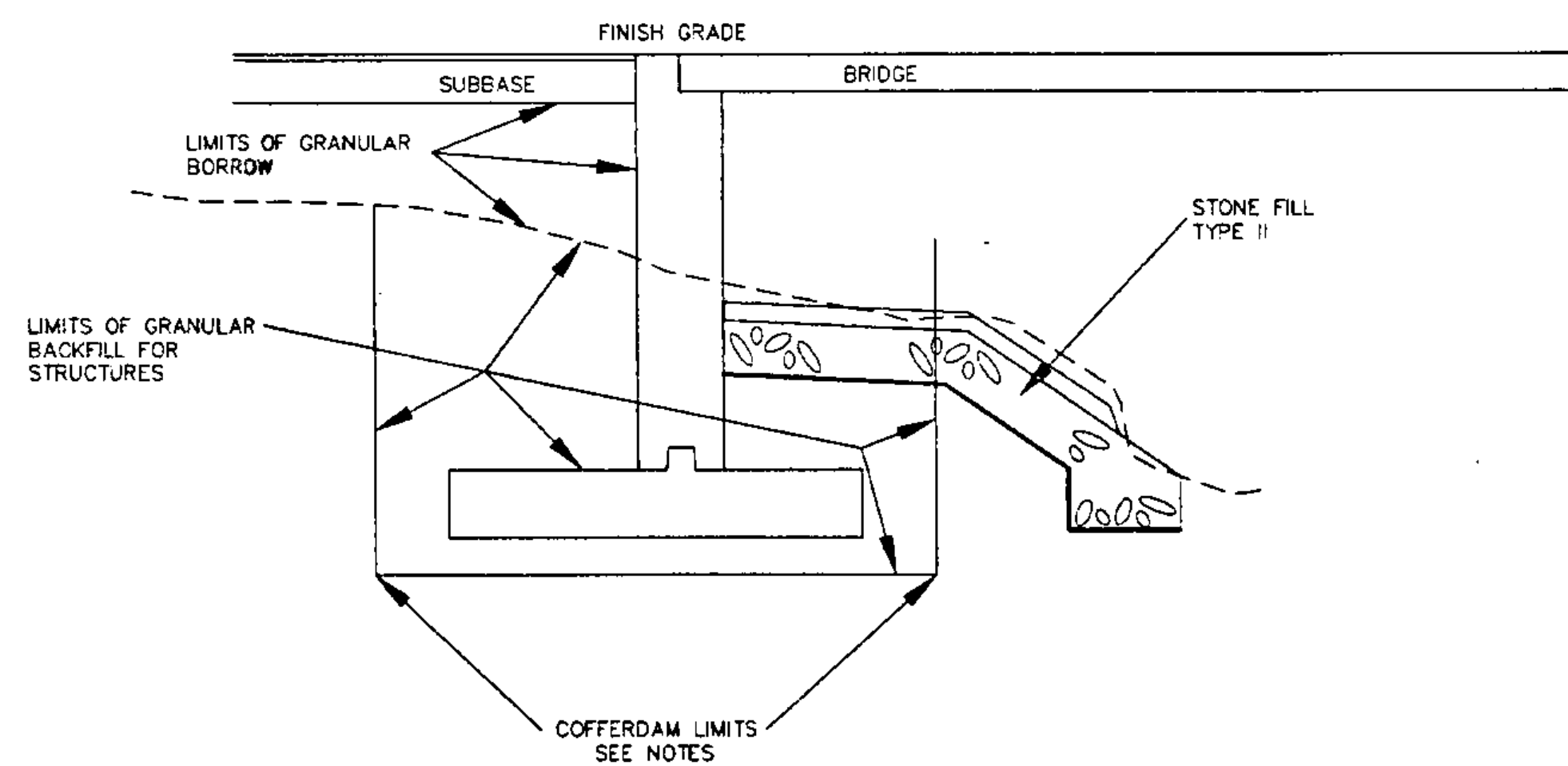
LEGEND

NF NEAR FACE
FF FAR FACE
EF EACH FACE

Metric

9-20-95	REVISED PER STATE REVIEW	DLH
7-31-95	REVISED PER STATE REVIEW	DLH
date	description	by
REVISIONS		
STATE OF VERMONT AGENCY OF TRANSPORTATION		proj. no. 93-064
TRANSPORTATION PATH WILLISTON STP BIKE (9) IN WILLISTON VERMONT		survey HL/S/ABR
LAMOUREUX, STONE & O'LEARY Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450 Engineers-Planners-Surveyors		design LAL/KAS draw KAS checked LAL date 2-2-94 scale 1:50 sheet no. 25 OF 36





TYPICAL ABUTMENT/WINGWALL SECTION

SCALE 1:50

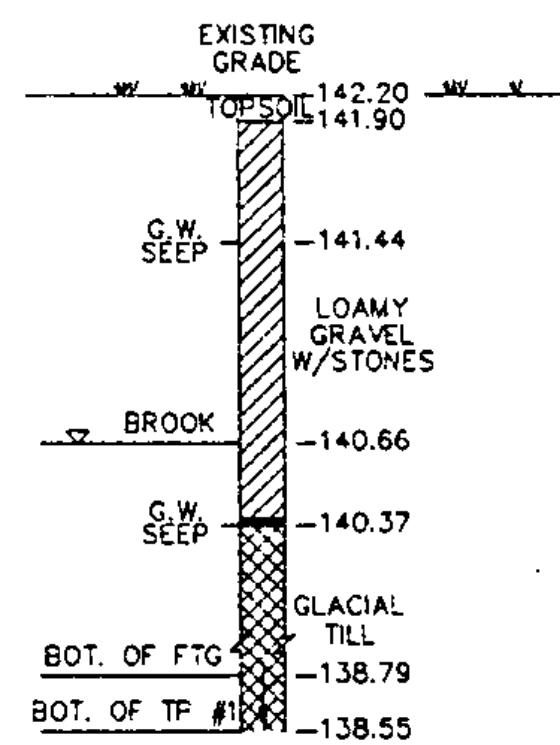
- LIMITS OF COFFERDAM TO BE DETERMINED BY THE CONTRACTOR.
- FOR PURPOSES OF ESTIMATING EARTHWORK QUANTITIES, THE LIMITS OF COFFERDAM HAVE BEEN ASSUMED TO BE .66 m OUTSIDE THE PERIMETER OF THE FOOTING.
- A 0.33 m UNDERCUT MAY BE ALLOWED AS DETERMINED NECESSARY BY THE ENGINEER.
- IF A COFFERDAM IS CONSTRUCTED WHICH IS MORE THAN THE INDICATED MINIMUM DISTANCE OUTSIDE THE FOOTING LIMITS, PAYMENT FOR ALL UNCLASSIFIED CHANNEL EXCAVATION INCLUDING THAT PORTION WHICH IS INSIDE THE COFFERDAM BUT OUTSIDE THE MINIMUM COFFERDAM LIMITS SHOWN WILL BE MADE AT THE CONTRACT UNIT PRICE FOR UNCLASSIFIED CHANNEL EXCAVATION.
- SEE CHANNEL SECTIONS FOR PLACEMENT OF STONE FILL.

ABUTMENT/WINGWALL DESIGN NOTES

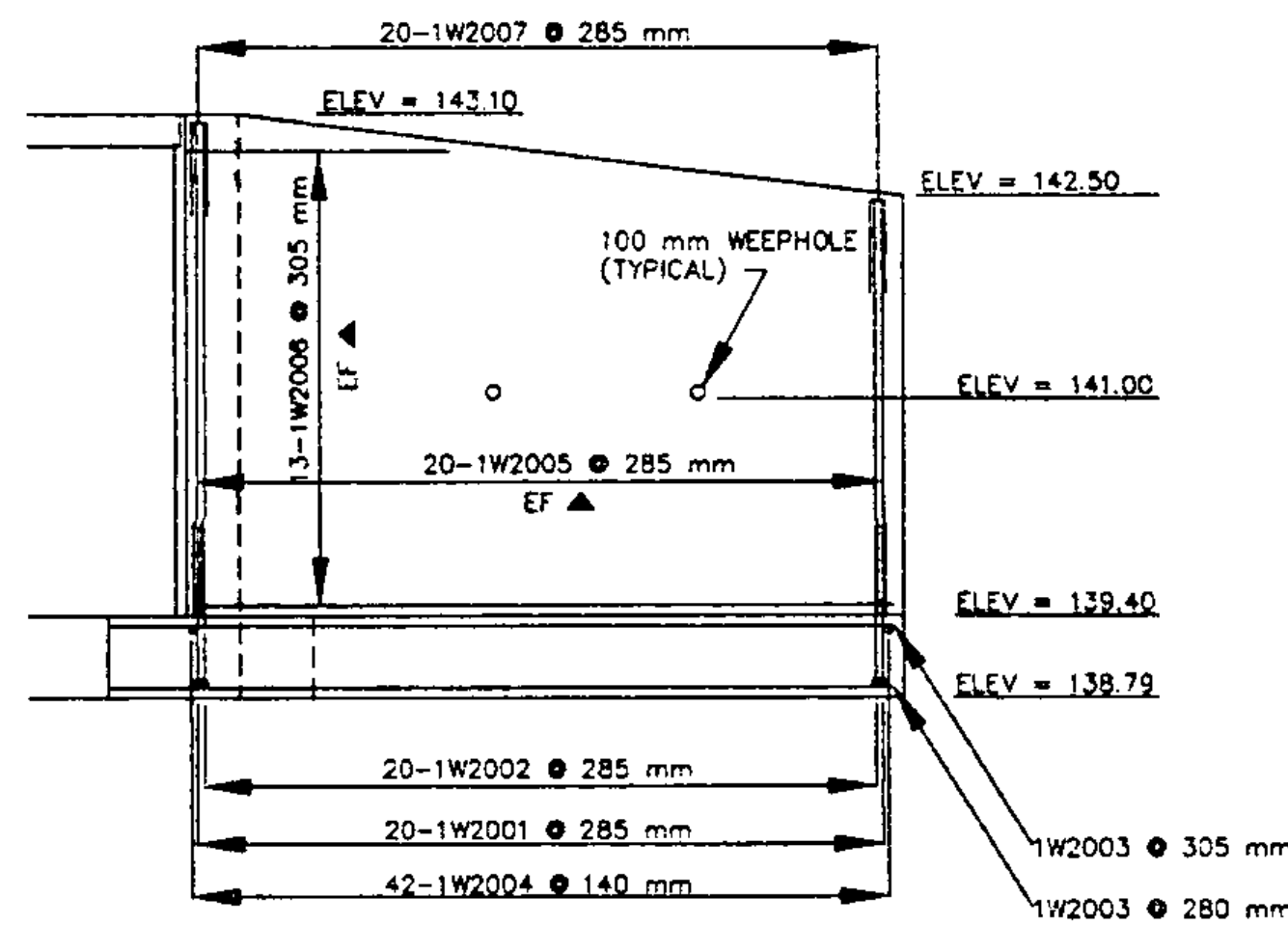
- ALL CONCRETE SHALL BE CLASS B AND COATED WITH AN APPROVED WATER REPELLANT.
- ALL REINFORCING STEEL SHALL BE GRADE 400.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE CONSTRUCTION OF THE ABUTMENT/WINGWALLS SHOWN ON THE DRAWINGS. PLACEMENT OF THE ANCHOR BOLTS AND BEARING PLATE ASSEMBLY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS PROVIDED BY THE BRIDGE MANUFACTURER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT PLACEMENT OF BOLTS AND KEY WIDTH AND DEPTH.

ABUTMENT DESIGN NOTES:	
Allow Soil Pressure	= 191 kPa
Actual Max Soil Pressure	= 93 kPa
Design Active Pressure	= 1 915 Pa
Overturning Stability Ratio	= 5.53
Sliding Stability Ratio	= 1.62
Axial LL on Stem	= 5 380 kg/m
Footing Concrete	= CLASS B
Footing Rebar	= GRADE 400

WINGWALL DESIGN NOTES:	
Allow Soil Pressure	= 191 kPa
Actual Max Soil Pressure	= 88 kPa
Design Active Pressure	= 1 915 Pa
Overturning Stability Ratio	= 5.60
Sliding Stability Ratio	= 1.63
Footing Concrete	= CLASS B
Footing Rebar	= GRADE 400

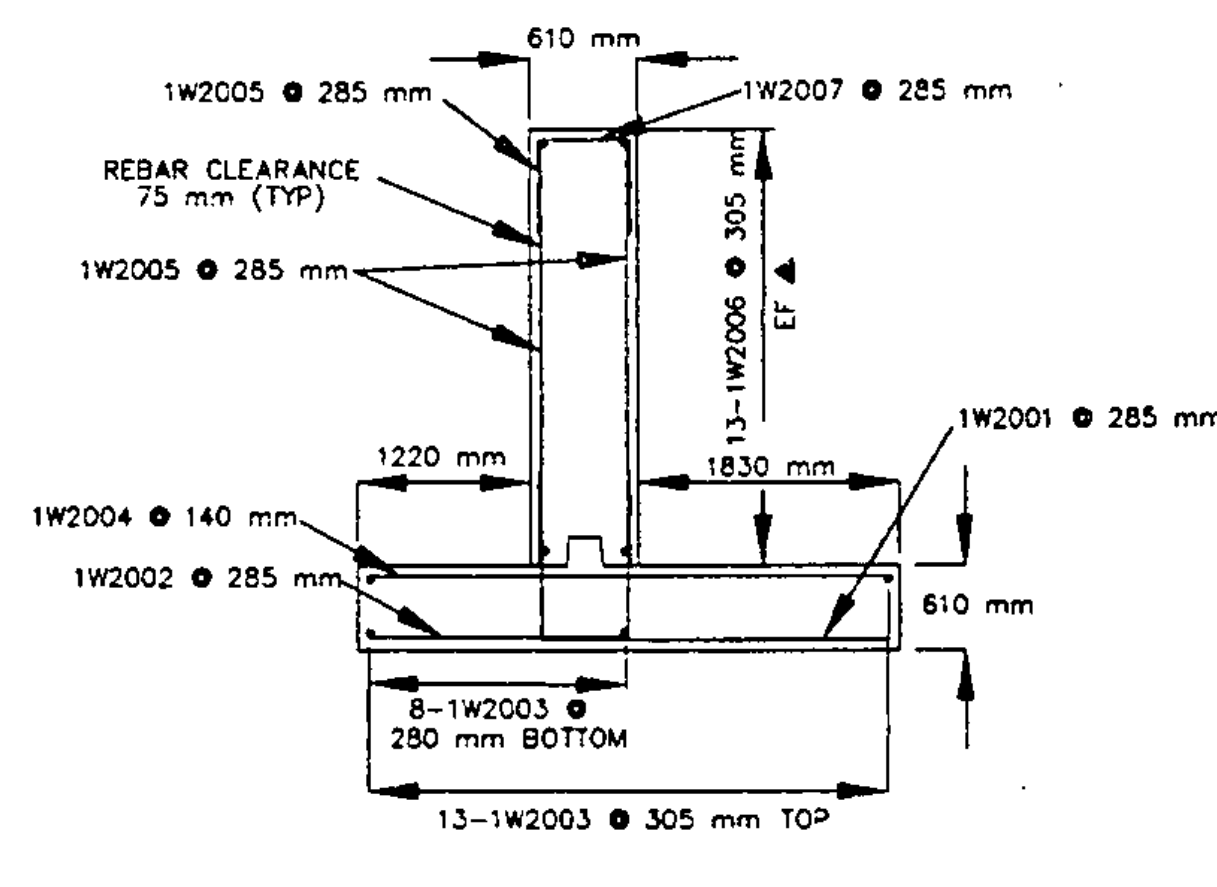


SOIL PROFILE
TEST PIT #1
STA. 0+215 ON CENTERLINE
NOTE: PENETROMETER TESTS TAKEN AT ELEV 139.3 IN GLACIAL TILL PRESENT READINGS GREATER THAN 215 kPa.



WINGWALL ELEVATION

SCALE 1:50



WINGWALL TYPICAL

SCALE 1:50

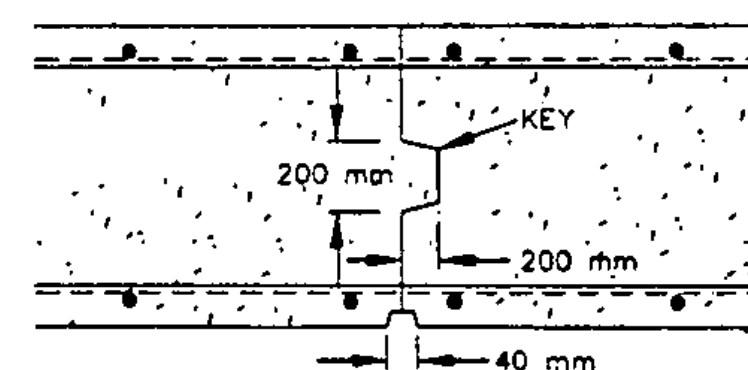
REINFORCING STEEL SCHEDULE

ITEM	NO. PIECES	SIZE	LENGTH METERS	MARK	TYPE	DIMENSIONS IN METERS												
						A	B	C	D	E	F	G	H	J	K	R	O	
ABUTMENT NO. 1 (ABUTMENT #2 SIMILAR EXCEPT FOR THE PREFIX)																		
15	20	mm	3.25	1A2001	17		1.26	1.99										
* 25	20	mm	5.10	1A2002	STR													
35	20	mm	3.68	1A2003	STR													
16	20	mm	3.19	1A2004	17		1.34	1.85										
27	20	mm	4.18	1A2005	STR													
15	20	mm	3.34	1A2006	STR													
16	20	mm	3.63	1A2007	STR													
16	20	mm	2.32	1A2008	23		0.71	0.23	0.29	0.38	0.71			0	0.38			
50	20	mm	2.13	1A2009	19		0.71	1.42	0.00					0.50	0.50	0.87		
WINGWALL NO. 1 (WINGWALLS 2,3 AND 4 SIMILAR EXCEPT FOR THE PREFIX)																		
20	20	mm	3.57	1W2001	17		1.26	2.31										
20	20	mm	2.96	1W2002	17		1.26	1.70										
* 23	20	mm	5.81	1W2003	STR													
42	20	mm	3.53	1W2004	STR													
40	20	mm	3.63	1W2005	STR													
26	20	mm	5.15	1W2006	STR													
40	20	mm	1.87	1W2007	S10		0.71	0.45	0.71									

NOTES:

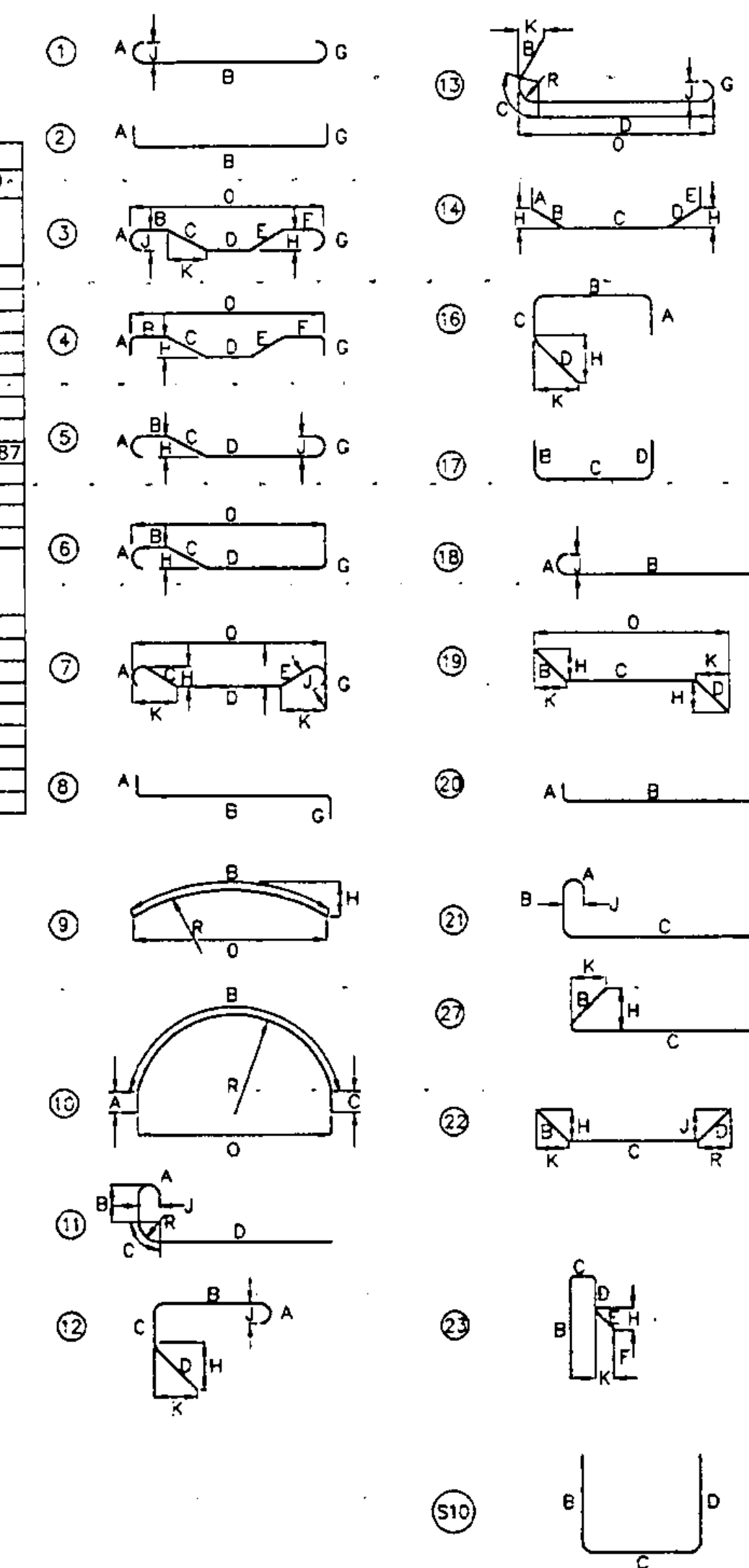
- UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31M (ASTM A615M). ALL BARS SHALL BE GRADE 400, UNLESS OTHERWISE DESIGNATED.
- FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
- BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
- "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
- "H" DIMENSIONS ON STIRRUPS 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.
- * DENOTES ONE EXTRA BAR TO BE ADDED FOR TESTING PURPOSES.

METRIC BAR SIZE DESIGNATION	ASTM A615M STANDARD REINFORCING BARS		
	MASS kg/m	NOMINAL DIMENSIONS DIA mm	CROSS SECTIONAL AREA mm ²
10	0.785	11.3	100
15	1.570	16.0	200
20	2.355	19.5	300
25	3.925	25.2	500



CONSTRUCTION JOINT

NTS

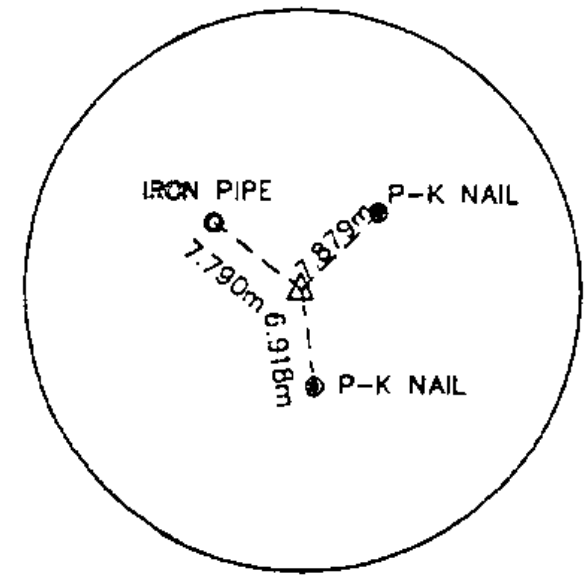


LEGEND

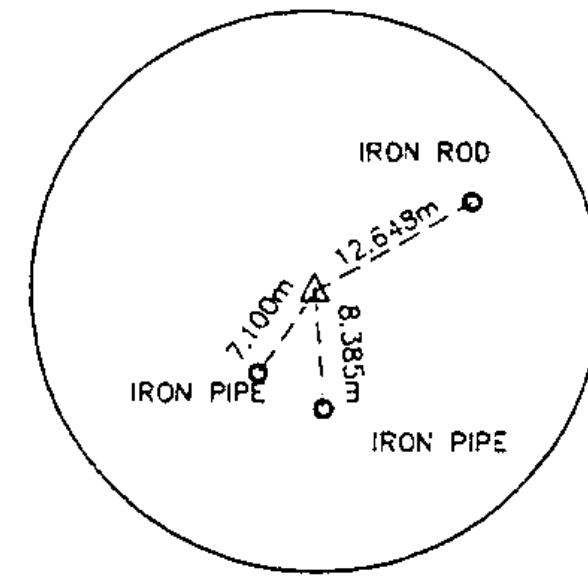
- NF NEAR FACE
- FF FAR FACE
- EF EACH FACE

Metric

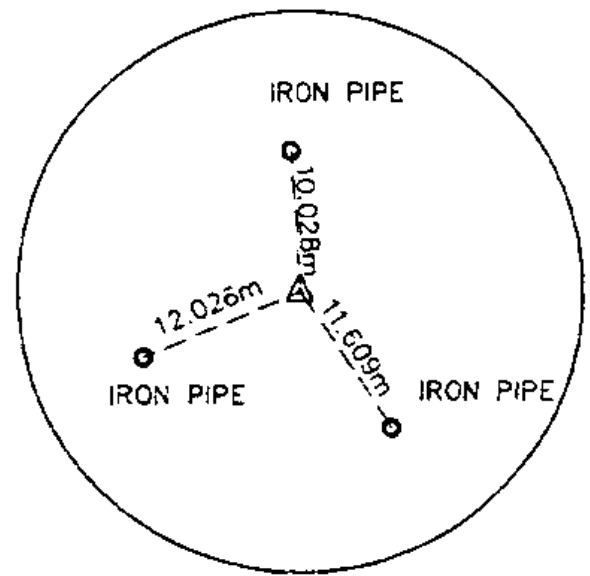
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9-20-95	REVISED PER STATE REVIEW
8-1-95	REVISED PER STATE REVIEW
DLH	DLH
date	description
	by
REVISIONS	
STATE OF VERMONT	DLH
AGENCY OF TRANSPORTATION	93-064
design	HLA/ABR
MBW/LAL	design
TRANSPORTATION PATH	DLH/ABR
WILLISTON STP BIKE (9)	checked
IN	DLH/LAL
WILLISTON	date
VERMONT	6-30-95
LAMOUREUX, STONE & O'LEARY	scale
Consulting Engineers Inc.	1:50
14 Morse Drive	sheet no.
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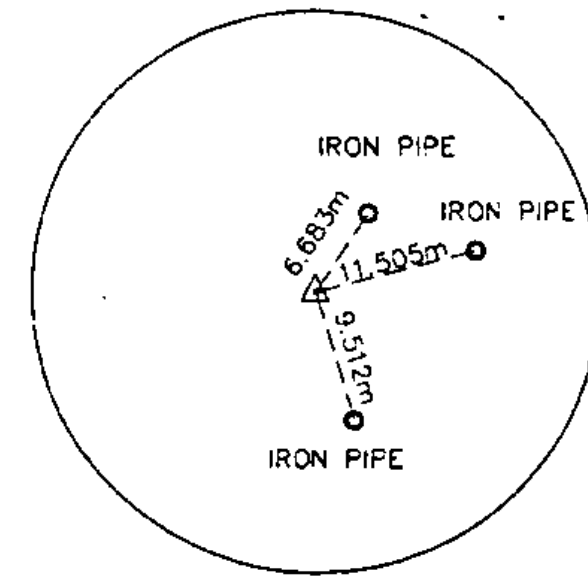
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BEGIN PROJECT



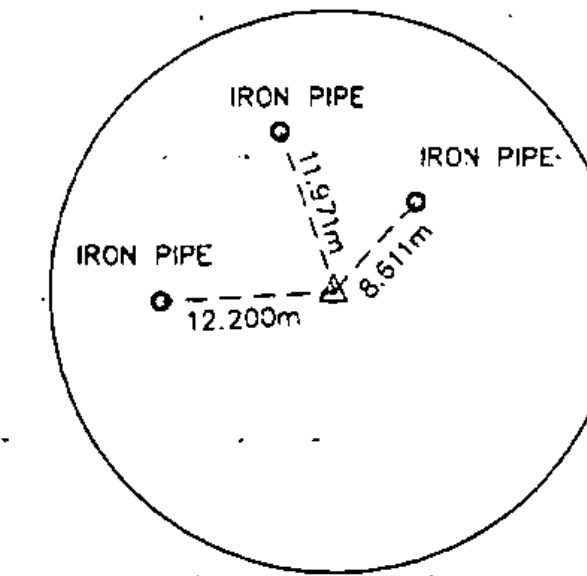
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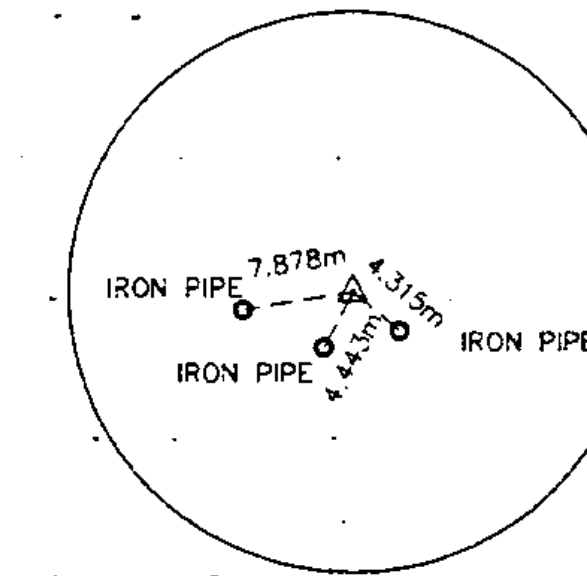
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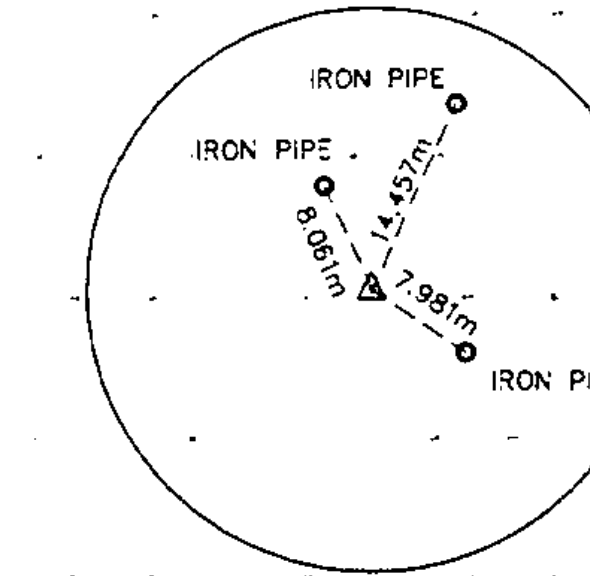
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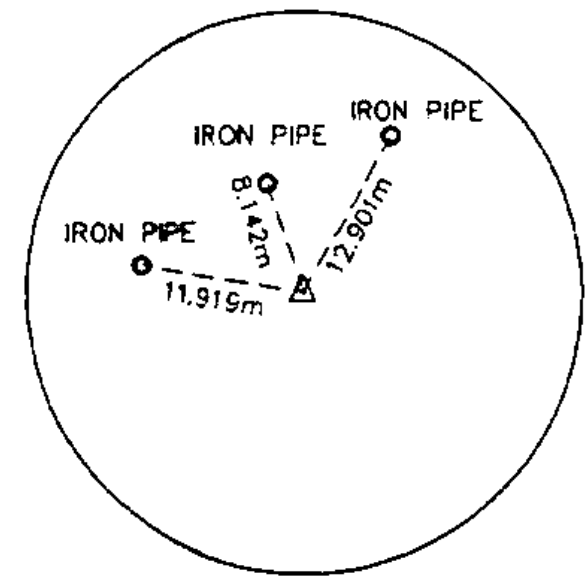
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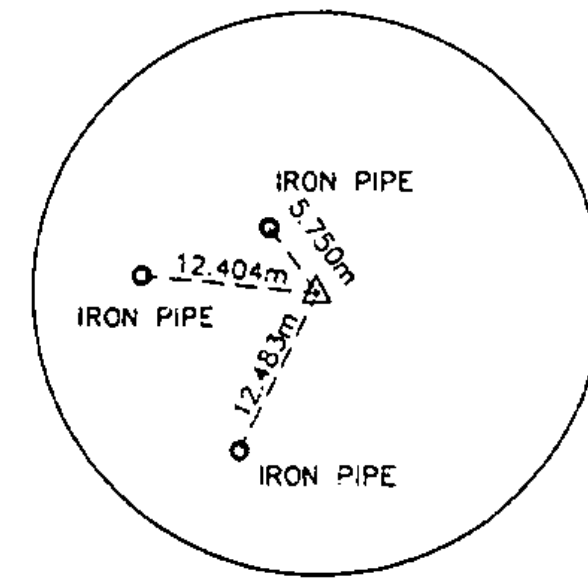
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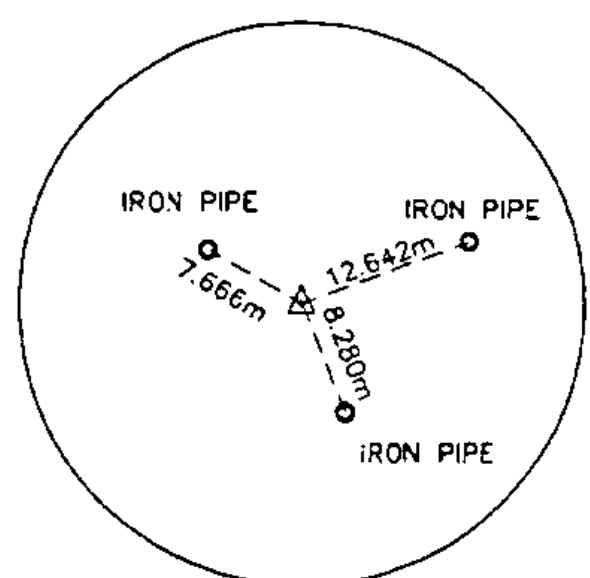
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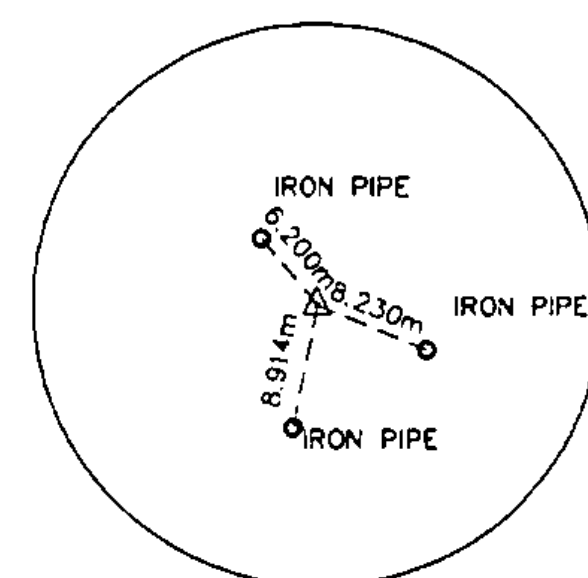
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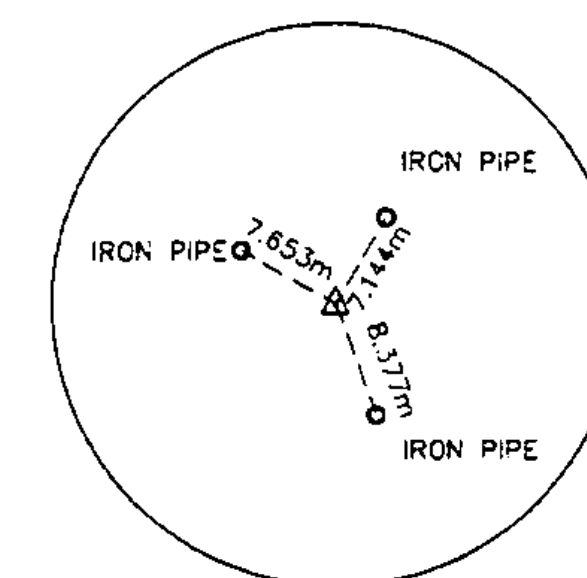
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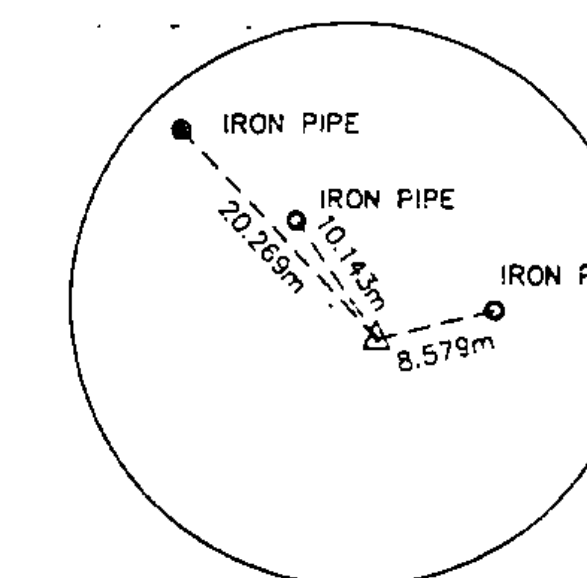
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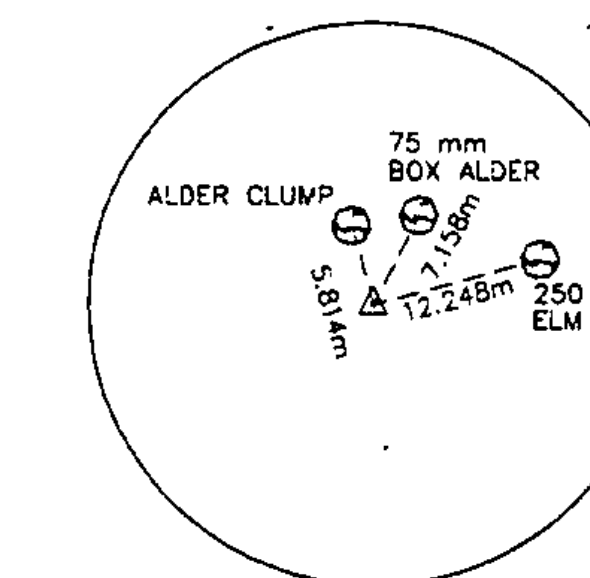
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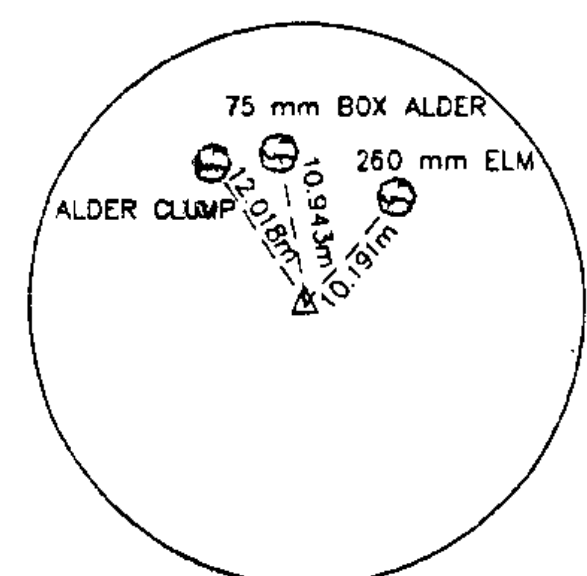
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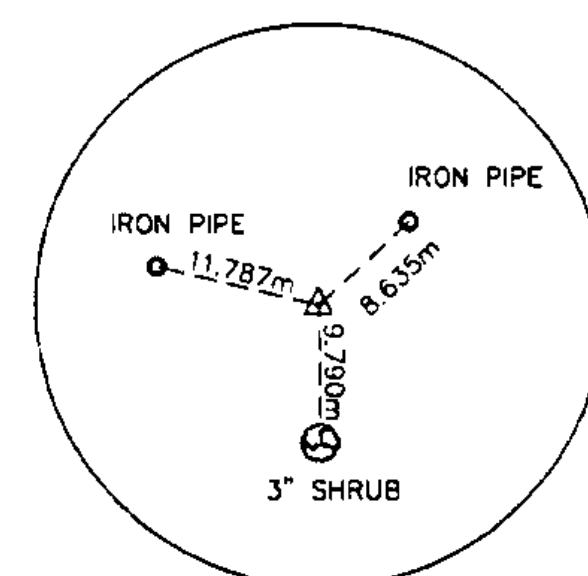
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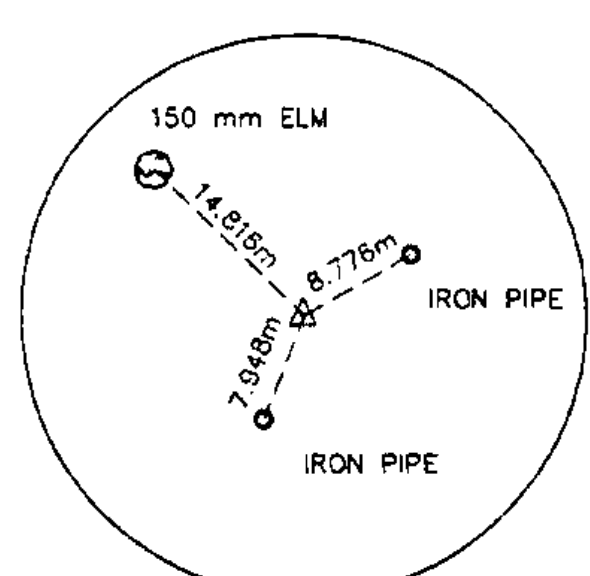
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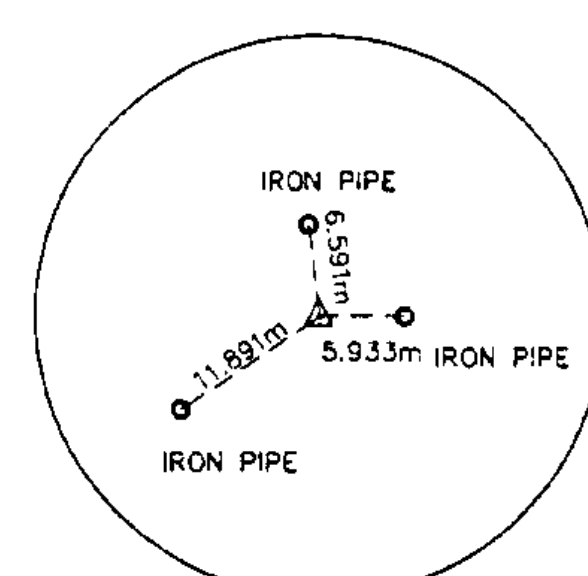
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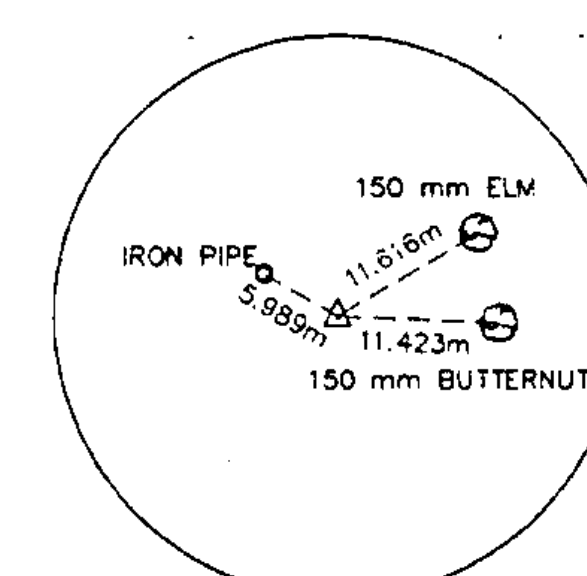
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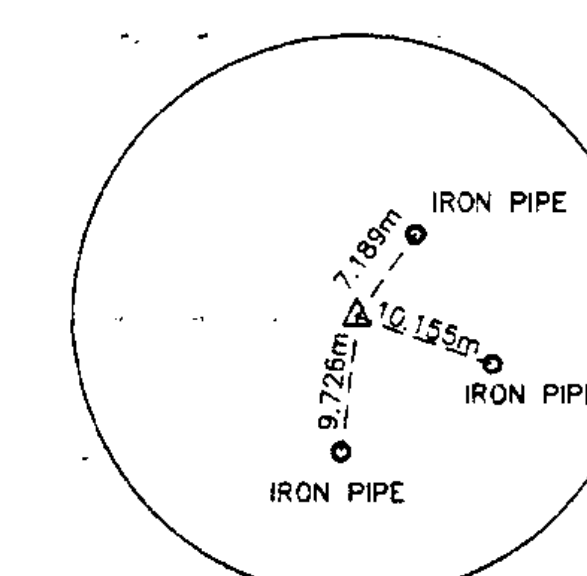
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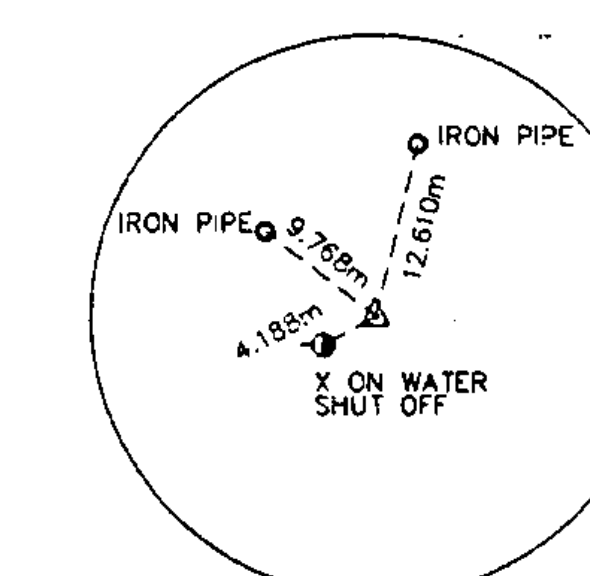
PT 0+719.624 AHEAD
= 0+722.684 BACK



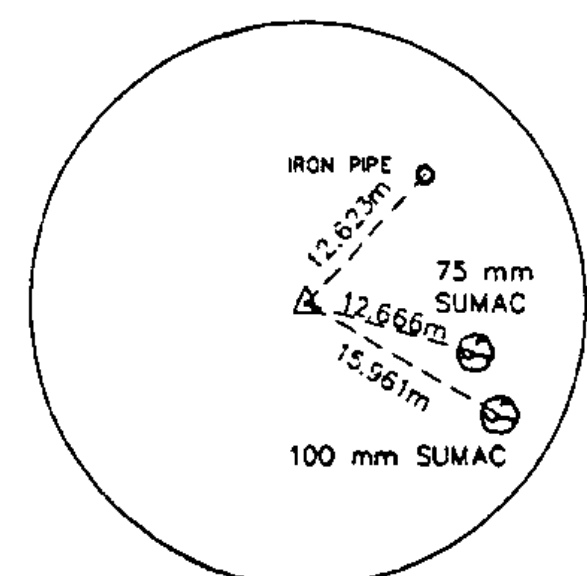
PT 0+748.574



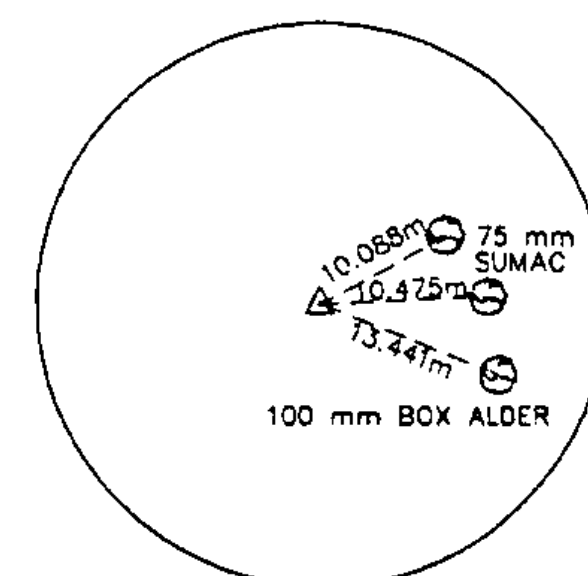
PC 0+841.934



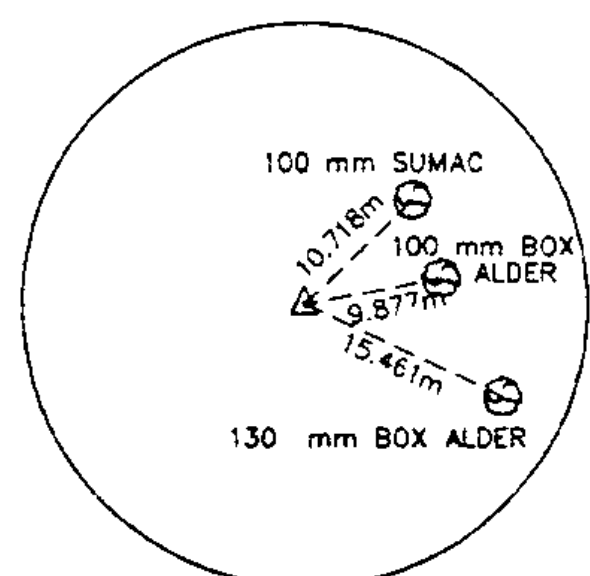
PT 0+858.244 AHEAD
= 0+858.904 BACK



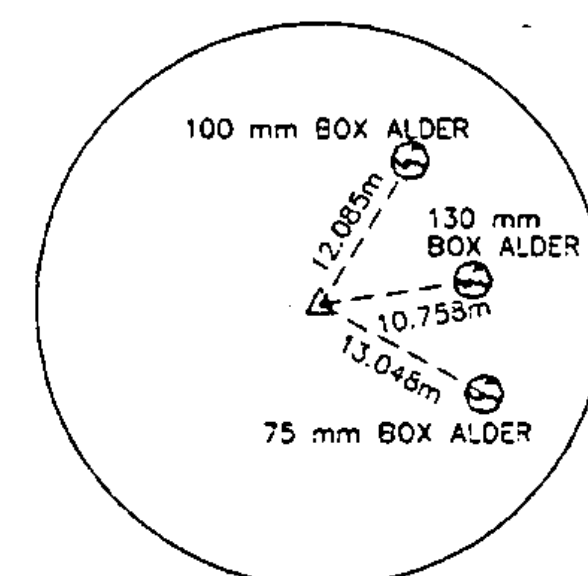
PT 0+890.484 AHEAD
= 0+890.814 BACK



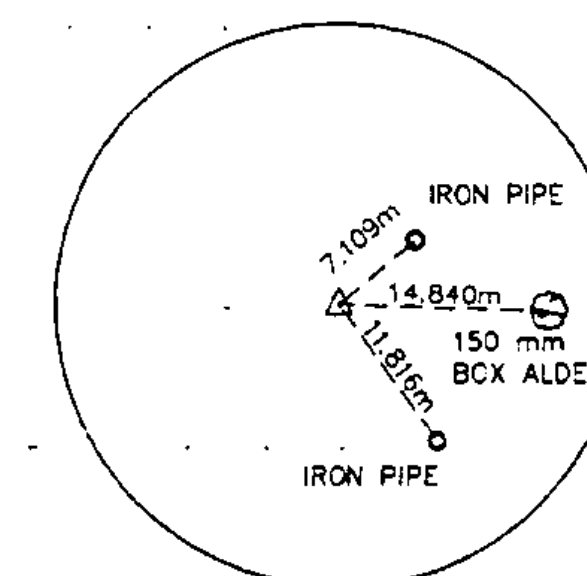
PT 0+899.604



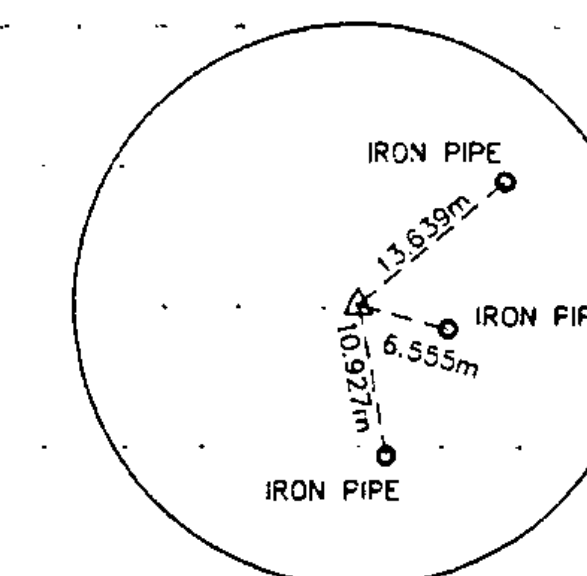
PC 907.064



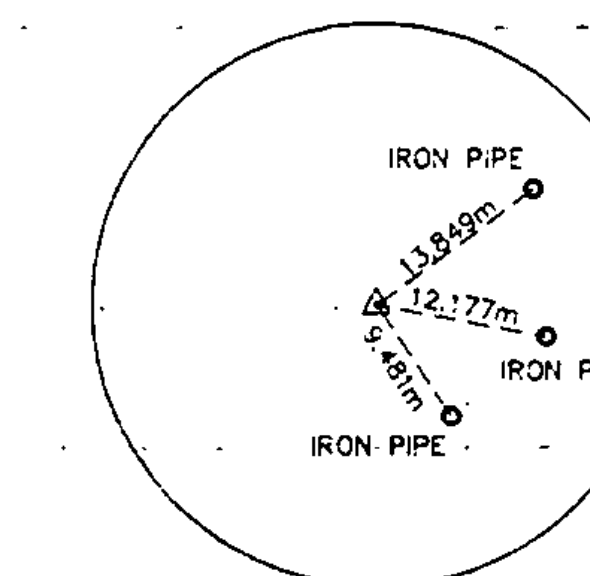
PT 0+915.604 AHEAD
= 0+916.094 BACK



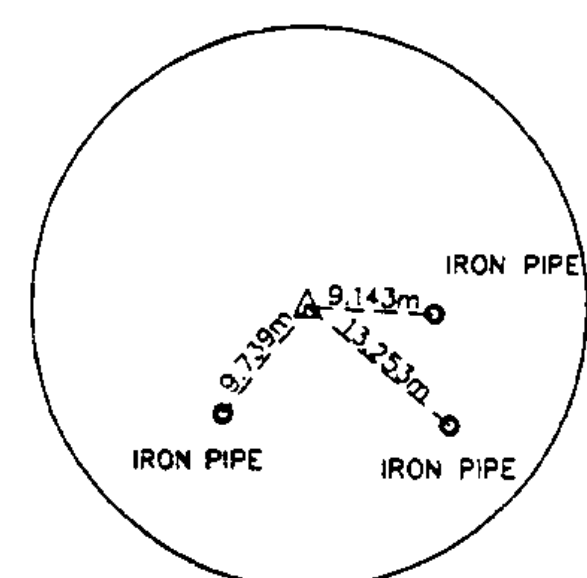
PC 0+937.644



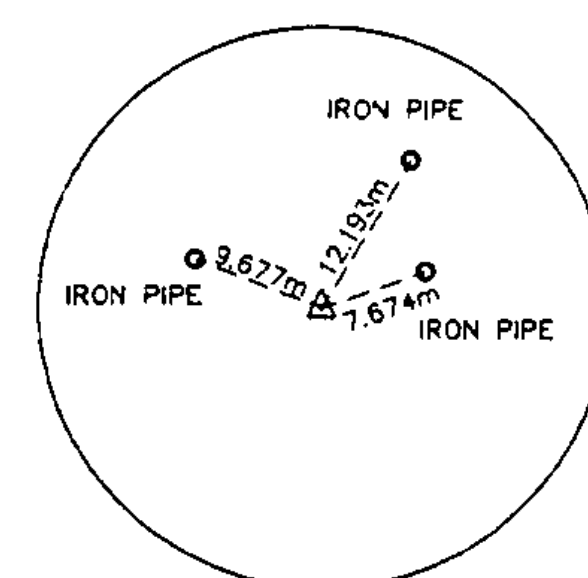
PT 0+956.164 AHEAD
= 0+956.404 BACK



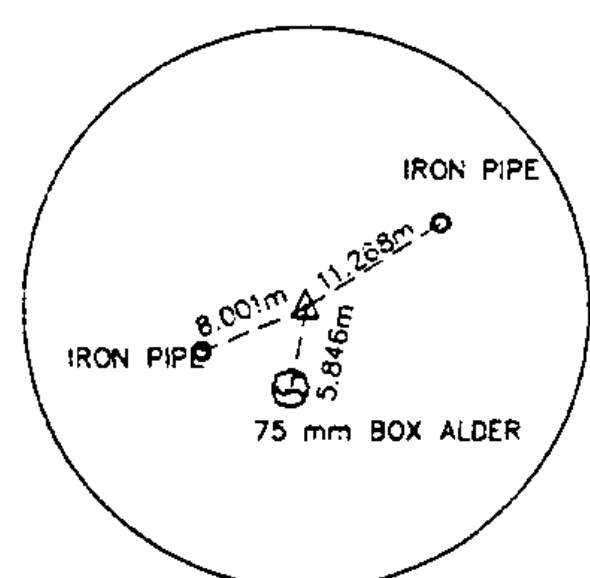
PC 1+006.584



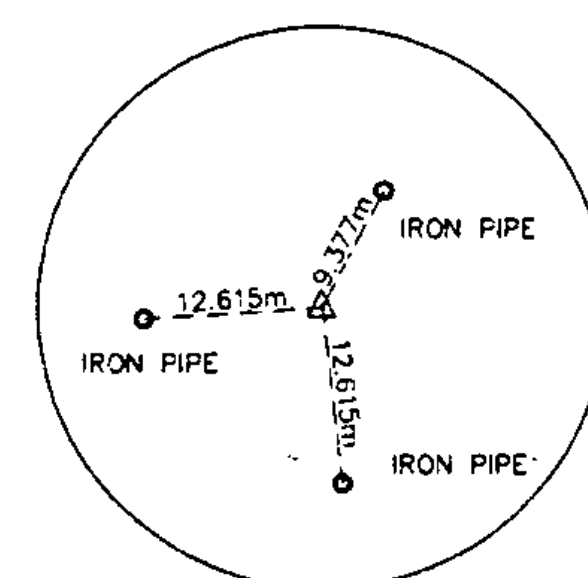
PT 1+038.834



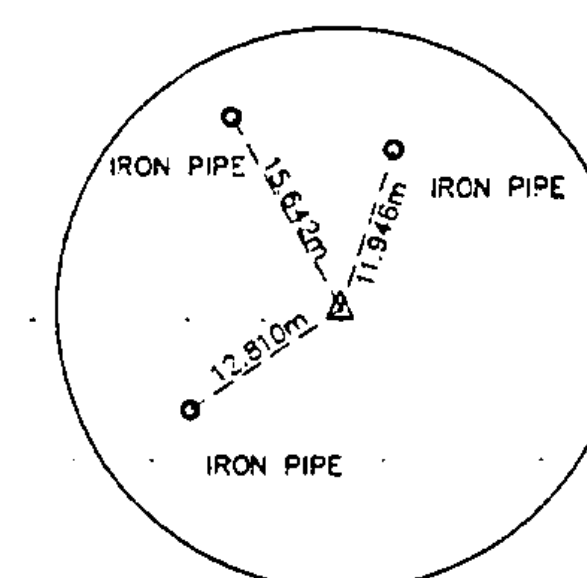
PC 1+050.264



PT 1+077.504

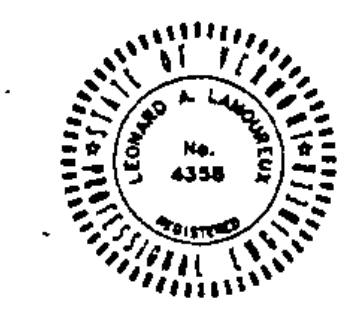


PC 1+083.194

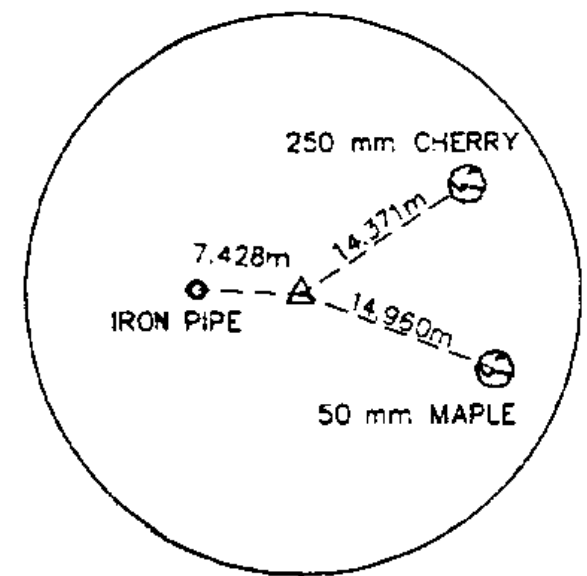


PT 1+094.844 AHEAD
= 1+096.304 BACK

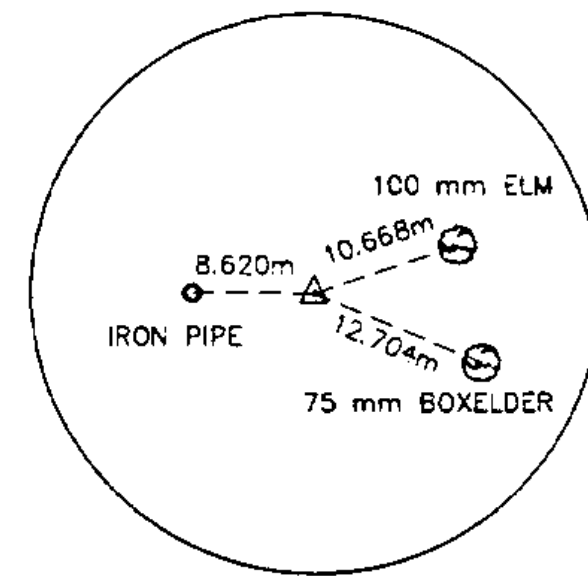
Metric



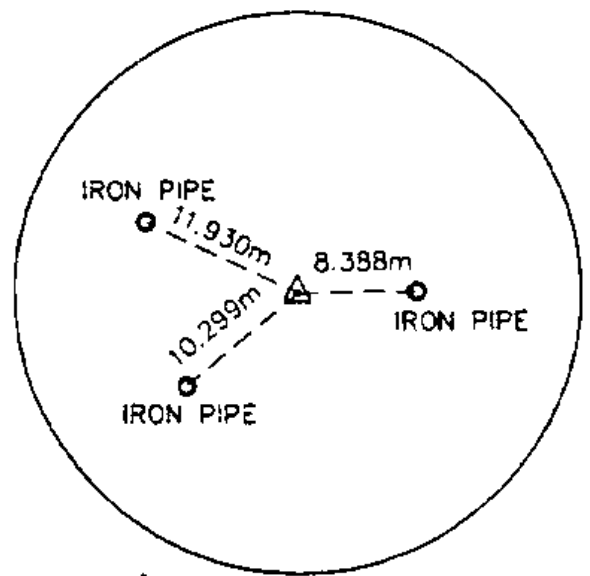
Date	3-2-95	desc.	REVISED PER STATE REVIEW	by	DLH
REVISIONS					
STATE OF VERMONT					
AGENCY OF TRANSPORTATION					
TRANSPORTATION PATH					
WILLISTON STP BIKE (9)					
IN					
WILLISTON					
VERMONT					
LAMOUREUX, STONE & O'LEARY					
Consulting Engineers Inc.					
Essex Junction, VT 05452					
14 Morse Drive					
(802) 878-4450					
Engineers-Planners-Surveyors					
Proj. no.	93-064				
Survey	BFD/HLS				
Design	LAL				
Drawn	PJE/DLM				
Checked	DLH/LAL				
Date	5-9-94				
Scale	1:500				
Sheet no.	27 OF 36				



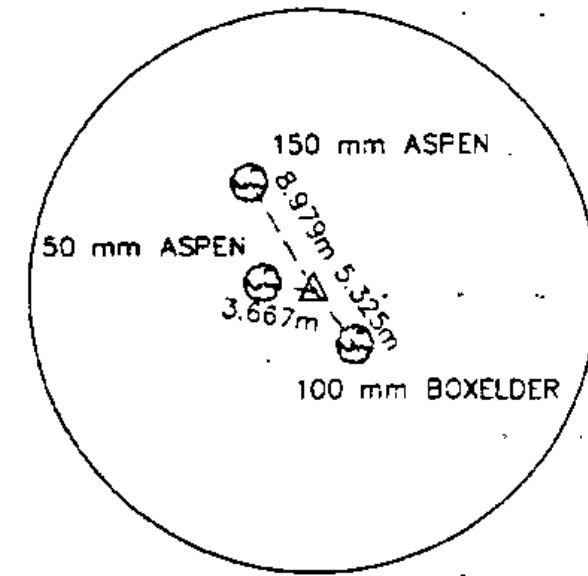
PC 1+126.164



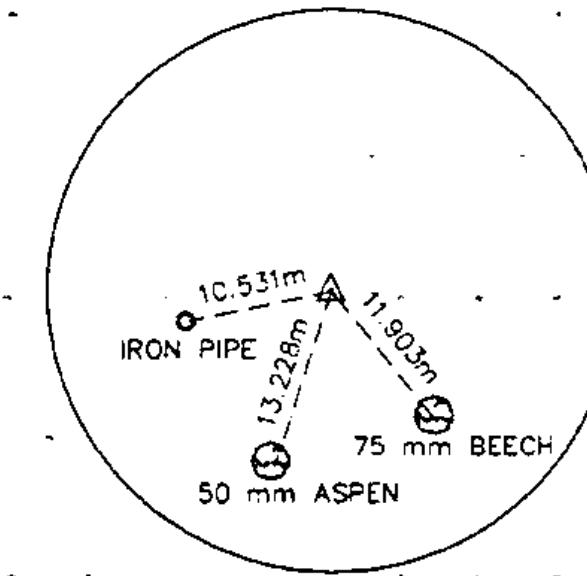
PI 1+153.224 AHEAD
= 1+154.224 BACK



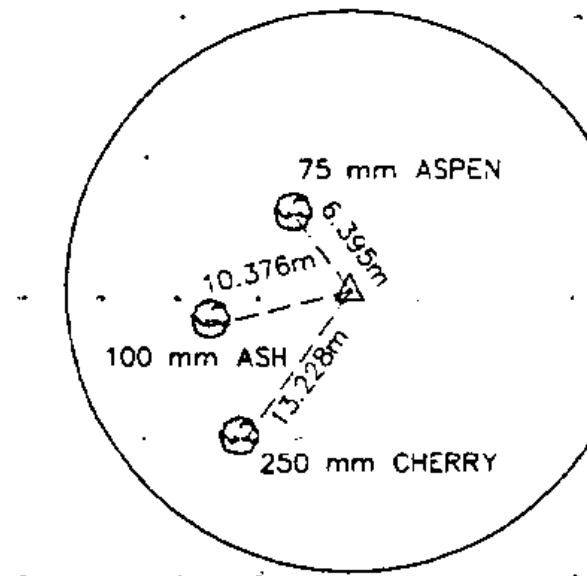
PI 1+231.024 AHEAD
= 1+235.544 BACK



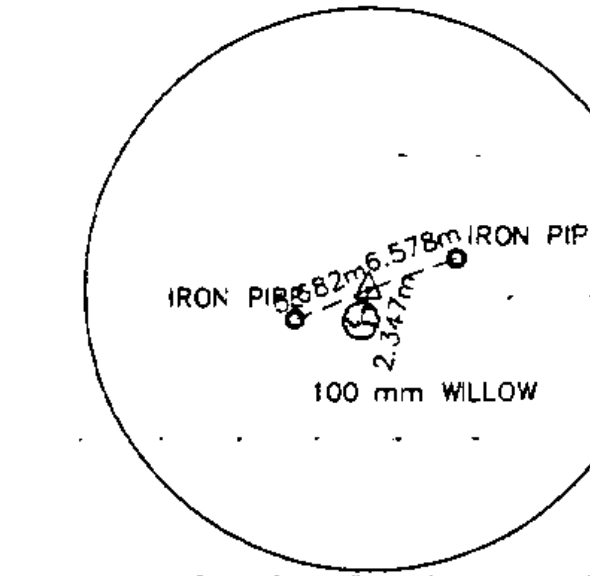
PT 1+273.184



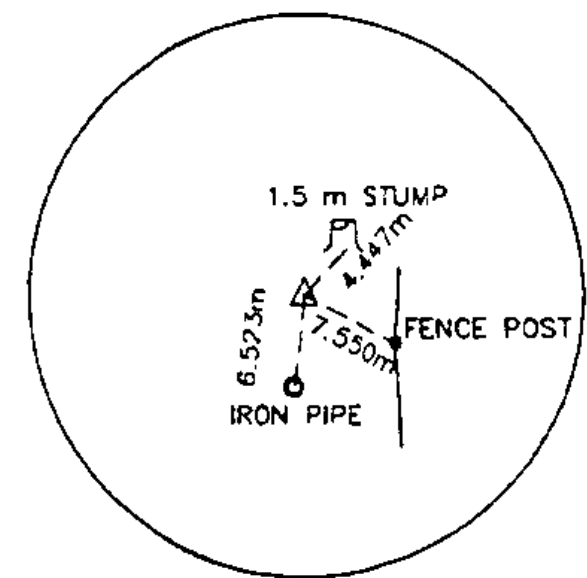
PC 1+321.984



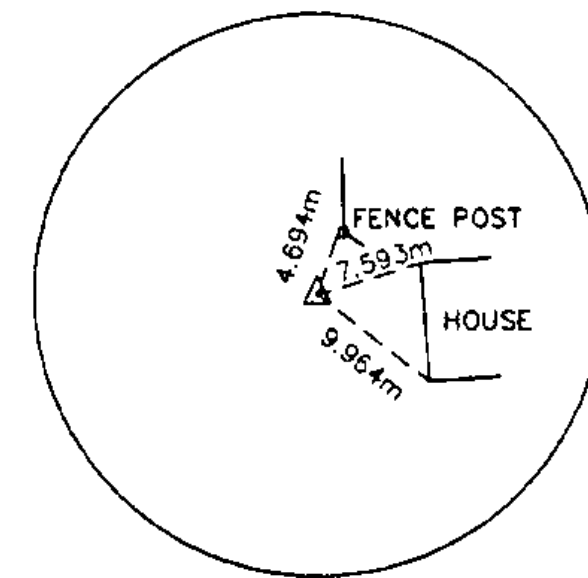
PT 1+350.814



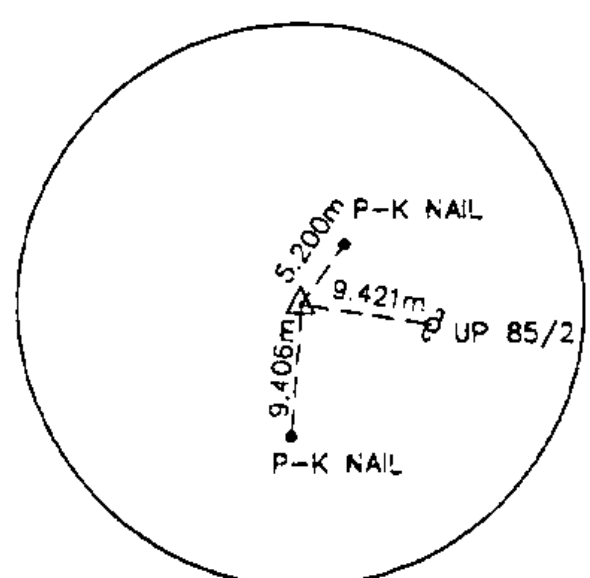
PC 1+382.344



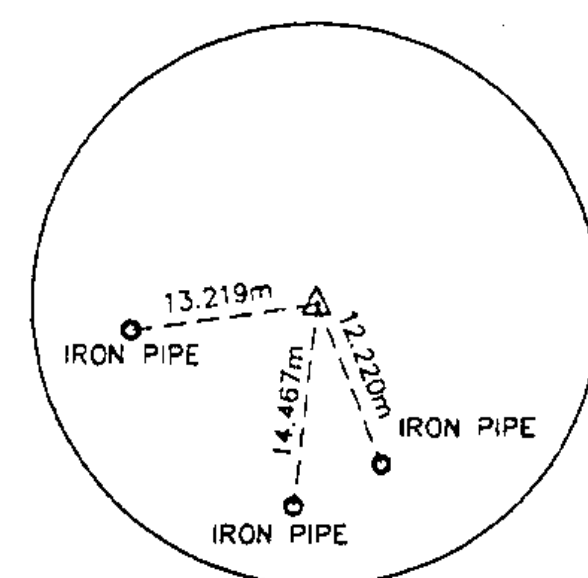
PC 1+405.144



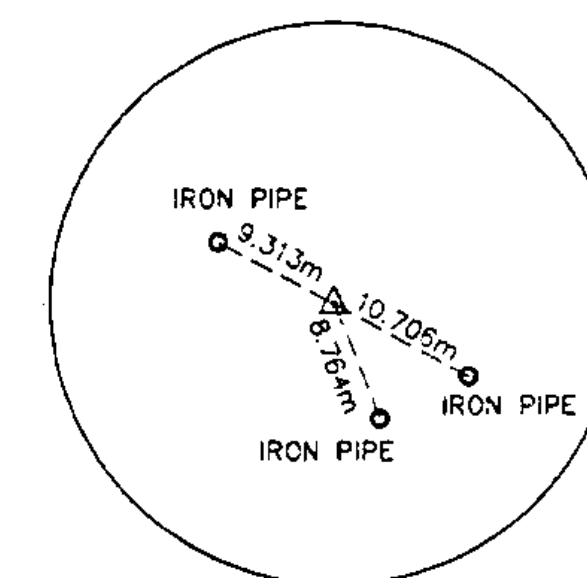
PT 1+415.734



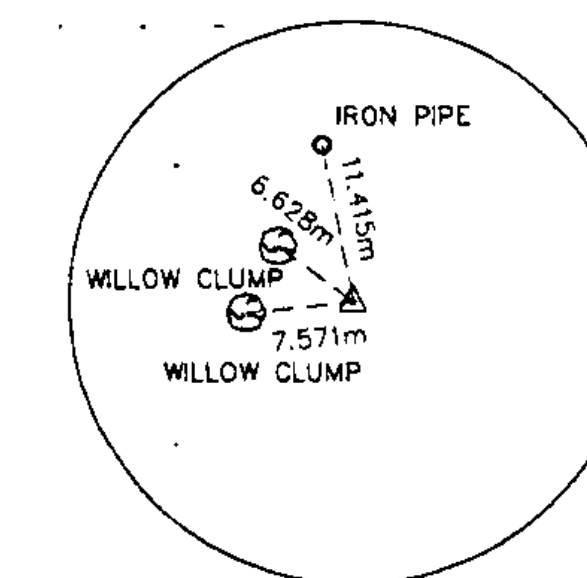
END OF PATH



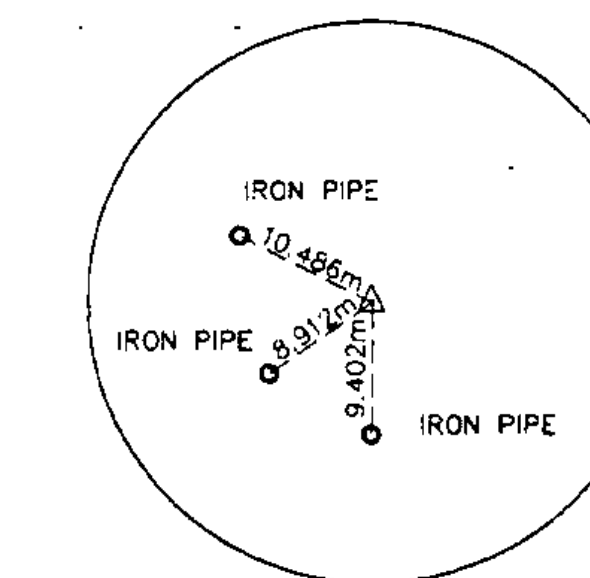
INT 10+000.000 SPUR
= 0+609.370 MAIN



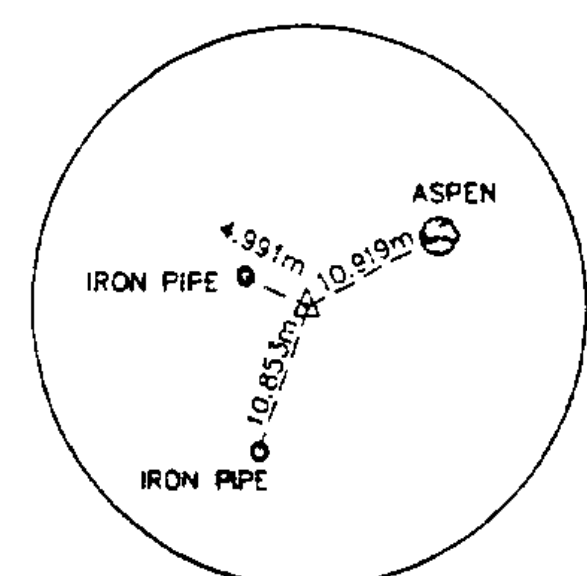
PC 10+007.888



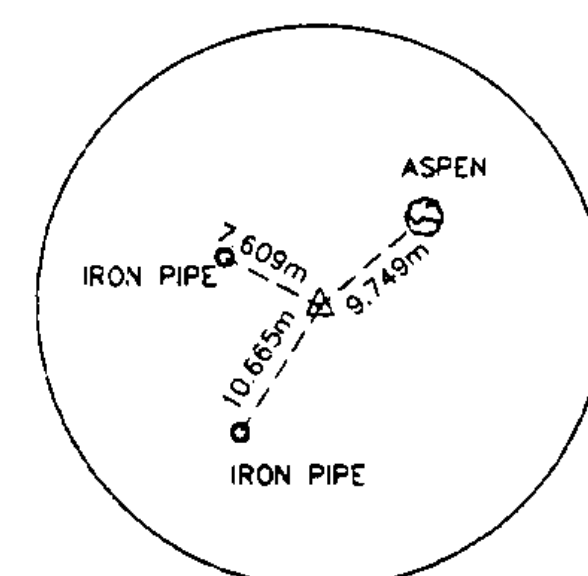
PI 10+031.250 AHEAD
= 10+031.648 BACK



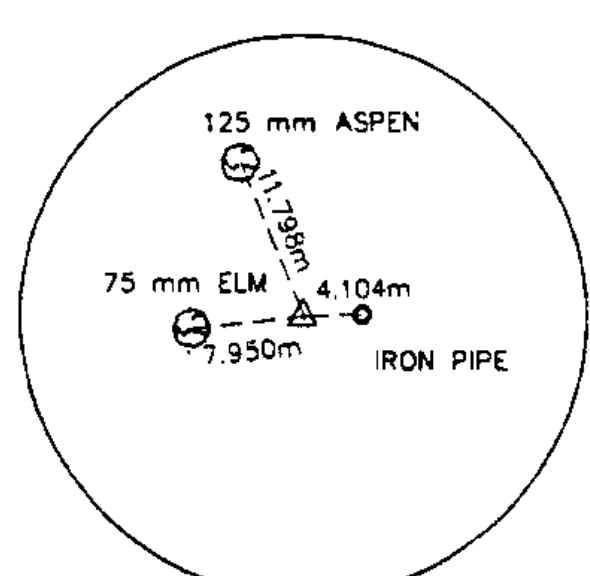
PI 10+193.727 AHEAD
= 10+205.574 BACK



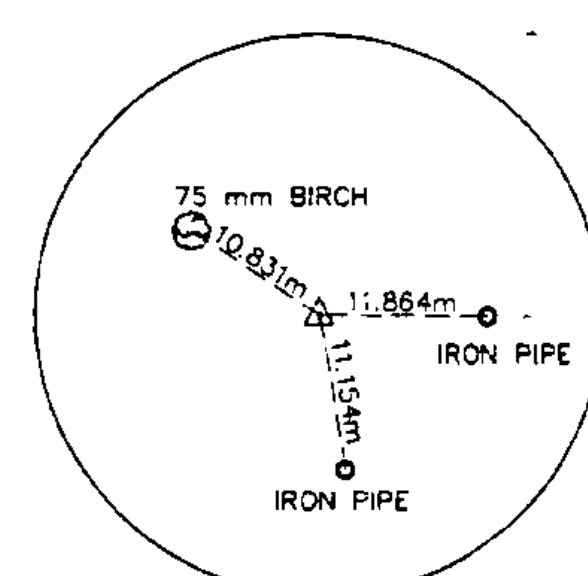
PT 10+219.617



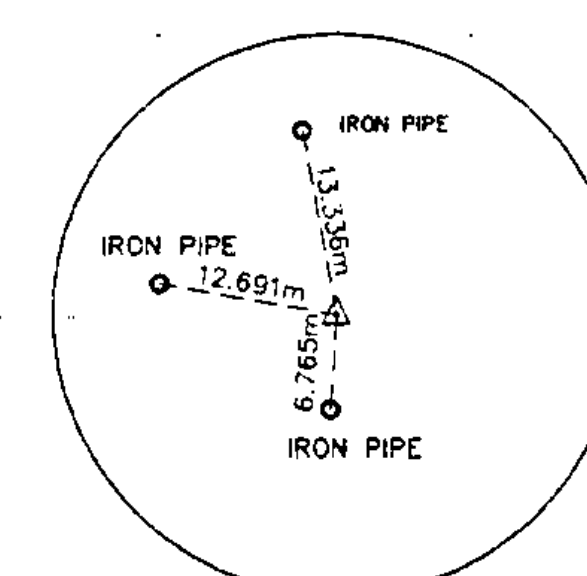
PC 10+222.239



PI 10+239.103 AHEAD
= 10+247.169 BACK



PI 10+280.280 AHEAD
= 10+284.556 BACK



END OF PATH



Date	5-2-94	desc.	REVISED PER STATE REVIEW	by	DLH
REVISIONS					
STATE OF VERMONT AGENCY OF TRANSPORTATION					proj. no. 93-064
TRANSPORTATION PATH WILLISTON STP BIKE (9) IN WILLISTON VERMONT					survey BFD/HLS
LAMOUREUX, STONE & O'LEARY Consulting Engineers Inc.					design LAL
14 Morse Drive Essex Junction, VT 05452 (802) 878-4450					drawn P.J.E./DLH
Engineers-Planners-Surveyors					checked DLH/LAL
					date 5-9-94
					scale 1:500
					sheet no. 28 OF 36

STATION	SIGN LEGEND	NEW SIGNS				NEW SIGN POSTS			REMARKS	
		SIGN DIMENSIONS	MUTCD NO.	SHEET NO.	AREA m ²	NUMBER OF POSTS	FLANGED CHANNEL kg/m			
							1.7	3.0		4.5
0+000 225 m LT. OLD STAGE ROAD		750mm X 750mm	W11-1	8 OF 47	0.56	1		x	SEE DETAIL ON SHEET 31	
0+000 25 m LT. OLD STAGE ROAD		600mm X 450mm	D11-1	8 OF 47	0.27	1		x	SEE DETAIL ON SHEET 31	
		300mm X 230mm	M7-1	8 OF 47	.07				SEE DETAIL ON SHEET 31	
0+000 225 m RT. OLD STAGE ROAD		750mm X 750mm	W11-1	8 OF 47	0.56	1		x	SEE DETAIL ON SHEET 31	
0+000 25 m RT. OLD STAGE ROAD		600mm X 450mm	D11-1	8 OF 47	0.27	1		x	SEE DETAIL ON SHEET 31	
		300mm X 230mm	M7-1	8 OF 47	.07				SEE DETAIL ON SHEET 31	
0+005 LT.		450mm X 450mm	R1-1	8 OF 47	0.17	1		x	SEE STANDARD SHEET E-143	
0+012 RT.		600mm X 600mm	R5-3	8 OF 47	0.36	1		x	SEE DETAIL ON SHEET 31	
		300mm X 450mm	R9-6	8 OF 47	0.14				SEE DETAIL ON SHEET 31	
0+030 LT.		600mm X 150mm	M4-12	8 OF 47	0.18	1		x	SEE STANDARD SHEET 31	
		600mm X 450mm	D11-1	8 OF 47	0.27				SEE STANDARD SHEET 31	

STATION	SIGN LEGEND	NEW SIGNS				NEW SIGN POSTS			REMARKS	
		SIGN DIMENSIONS	MUTCD NO.	SHEET NO.	AREA m ²	NUMBER OF POSTS	FLANGED CHANNEL kg/m			
							1.7	3.0		4.5
0+060 LT.		450mm X 450mm	W3-1	8 OF 47	0.20	1		x	SEE DETAIL ON SHEET 31	
0+168 RT.		450mm X 450mm	W5-4	8 OF 47	0.20	1		x	SEE DETAIL ON SHEET 31	
0+197.5 LT & RT		300mm X 900mm	TYPE III	8 OF 47	0.27	2		x	SEE STANDARD SHEET E-120	
0+212.7 LT & RT		300mm X 900mm	TYPE III	8 OF 47	0.27	2		x	SEE STANDARD SHEET E-120	
0+247 LT.		450mm X 450mm	W5-4	8 OF 47	0.20	1		x	SEE DETAIL ON SHEET 31	
0+295 LT.		450mm X 450mm	W1-2	8 OF 47	0.20	1		x	SEE STANDARD SHEET E-151	
1+362 RT.		450mm X 450mm	W3-1	11 OF 47	0.20	1		x	SEE DETAIL ON SHEET 31	



Metric

State 1-25-94 Desc. REVISED PER STATE REVIEW	By ABR
REVISIONS	
STATE OF VERMONT AGENCY OF TRANSPORTATION	
TRANSPORTATION PATH WILLISTON STP BIKE (9) IN WILLISTON VERMONT	
LAMOUREUX, STONE & O'LEARY Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450 Engineers-Planners-Surveyors	
Proj. No: 93-064 Survey: BFD/HLS Design: LAL Drawn: P.E./DLH Checked: DLH/LAL Date: 12-01-93	Scale: NTS SHE. No: 29 OF 36

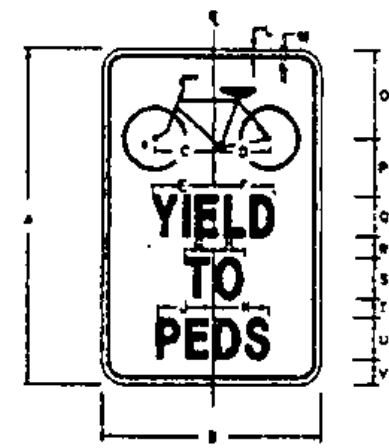
STATION	SIGN LEGEND	NEW SIGNS				NEW SIGN POSTS			REMARKS	
		SIGN DIMENSIONS	MUTCD NO.	SHEET NO.	AREA m ²	NUMBER OF POSTS	FLANGED CHANNEL kg/m			
							1.7	3.0		4.5
1+385 RT.		600mm X 150mm	M4-12	11 OF 47	0.09	1		x		
		600mm X 450mm	D11-1	11 OF 47	0.27				SEE DETAIL ON SHEET 31	
1+442 LT.		600mm X 600mm	R5-3	11 OF 47	0.36	1		x	SEE DETAIL ON SHEET 31	
		300mm X 450mm	R9-6	11 OF 47	0.14				SEE DETAIL ON SHEET 31	
1+442.5 RT.		450mm X 450mm	R1-1	11 OF 47	0.17	1		x	SEE STANDARD SHEET E-143	
1+445 29 m LT. NORTH WILLISTON ROAD		600mm X 450mm	D11-1	11 OF 47	0.27	1		x	SEE DETAIL ON SHEET 31	
		300mm X 230mm	M7-1	11 OF 47	.07				SEE DETAIL ON SHEET 31	
1+445 60 m LT. NORTH WILLISTON ROAD		750mm X 750mm	W11-1	11 OF 47	0.56	1		x	SEE DETAIL ON SHEET 31	
1+445 11.5 m RT. NORTH WILLISTON ROAD		600mm X 450mm	D11-1	11 OF 47	0.27	1		x	SEE DETAIL ON SHEET 31	
		300mm X 230mm	M7-1	11 OF 47	.07				SEE DETAIL ON SHEET 31	
1+445 90 m RT. NORTH WILLISTON ROAD		750mm X 750mm	W11-1	11 OF 47	0.56	1		x	SEE DETAIL ON SHEET 31	

STATION	SIGN LEGEND	NEW SIGNS				NEW SIGN POSTS			REMARKS	
		SIGN DIMENSIONS	MUTCD NO.	SHEET NO.	AREA m ²	NUMBER OF POSTS	FLANGED CHANNEL kg/m			
							1.7	3.0		4.5
10+003 LT.		450mm X 450mm	R1-1	9 OF 47	0.17	1		x	SEE STANDARD SHEET E-143	
10+062 LT.		450mm X 450mm	W3-1	9 OF 47	0.20	1		x	SEE DETAIL ON SHEET 31	
10+240 RT.		450mm X 450mm	W3-1	9 OF 47	0.20	1		x	SEE DETAIL ON SHEET 31	
10+268 RT.		600mm X 150mm	M4-12	9 OF 47	0.09	1		x	SEE DETAIL ON SHEET 31	
		600mm X 450mm	D11-1	9 OF 47	0.27				SEE DETAIL ON SHEET 31	
10+288 LT.		600mm X 600mm	R5-3	9 OF 47	0.36	1		x	SEE DETAIL ON SHEET 31	
		300mm X 450mm	R9-6	9 OF 47	0.14				SEE DETAIL ON SHEET 31	
10+298 RT.		450mm X 450mm	R1-1	9 OF 47	0.17	1		x	SEE STANDARD SHEET E-143	

Metric



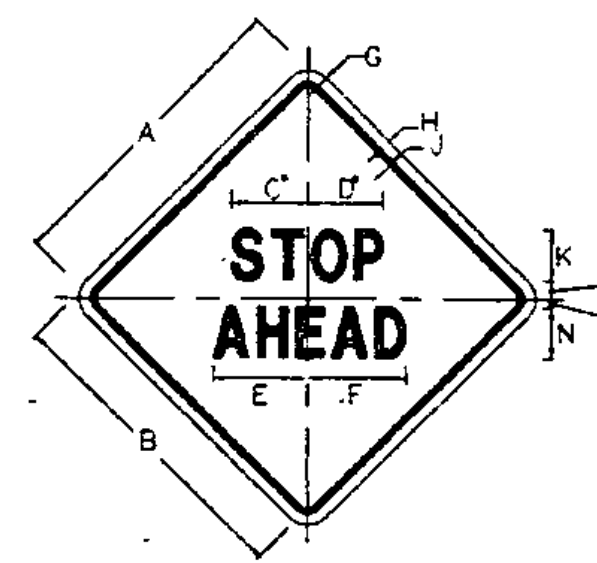
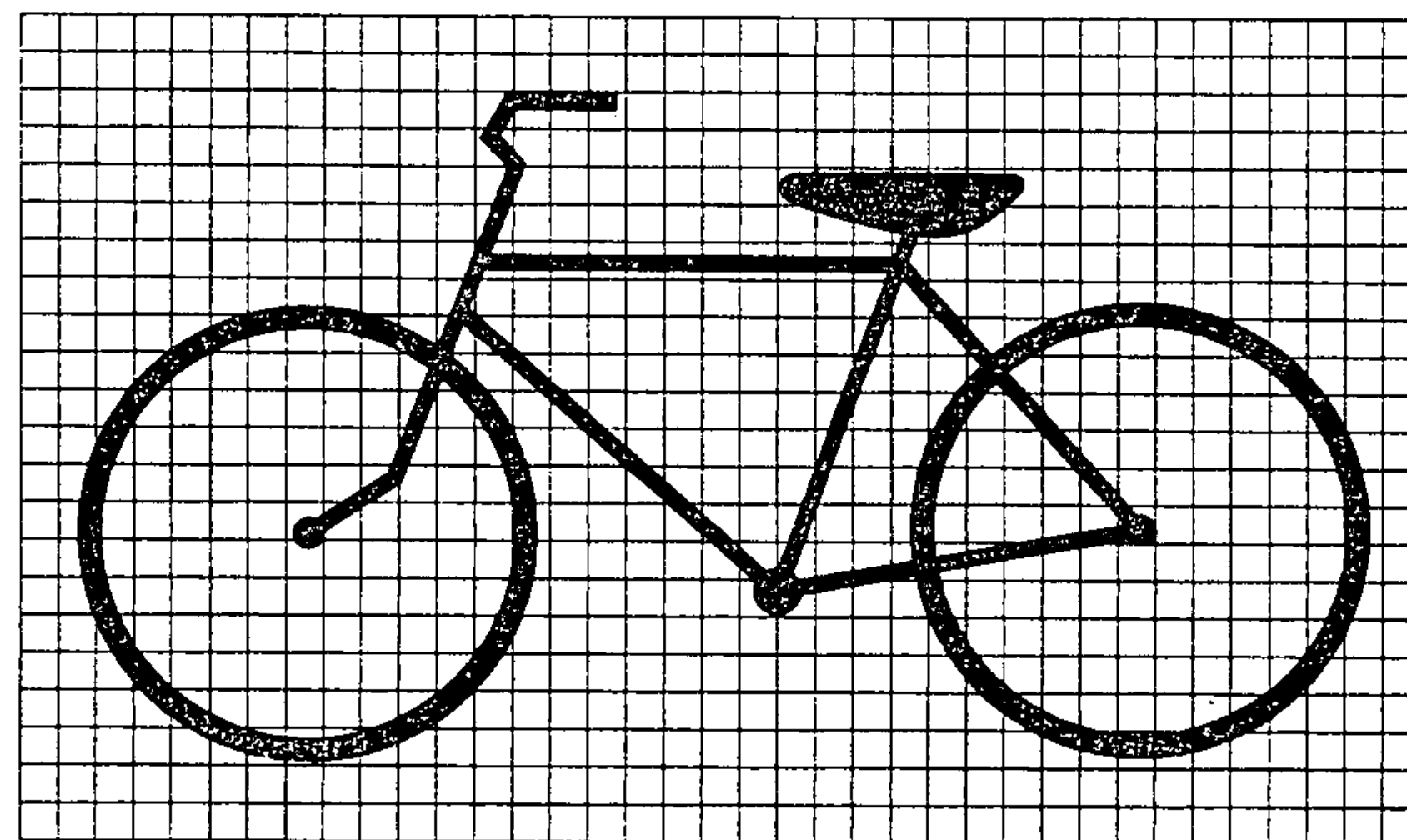
3-2-85	REVISED PER STATE REVIEW	DLH
Date 1-25-94	DESC. REVISED PER STATE REVIEW	BY ABR
REVISIONS		
STATE OF VERMONT AGENCY OF TRANSPORTATION		
TRANSPORTATION PATH WILLISTON STP BIKE (B) IN WILLISTON VERMONT		
proj. no. 93-064	survey BFD/HLS	design LAL
drawn P.E./DLH	checked DLH/LAL	date 12-01-93
LAMOUREUX, STONE & O'LEARY Consulting Engineers Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450 Engineers-Planners-Surveyors		
scale NTS	sheet no. 30 OF 36	



R9-6

COLORS: LEGEND-BLACK(NON-REFL)
BACKGROUND-WHITE(REFL)

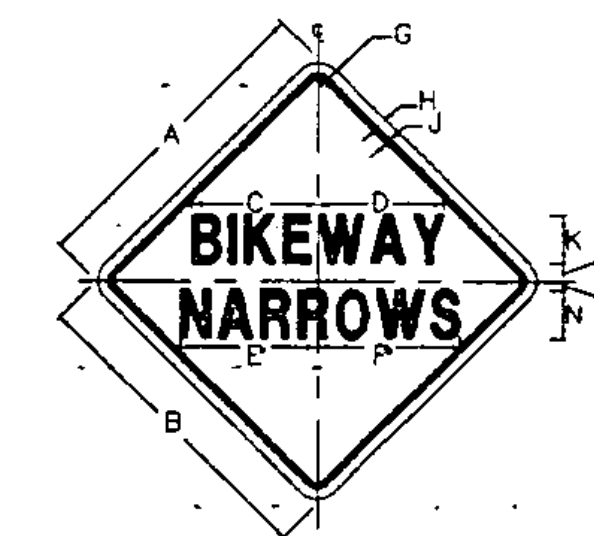
DIMENSIONS (mm)										
A	B	C	D	E	F	G	H	J		
450	300	70	70	83	83	32	32	76		
K	L	M	N	O	P	Q	R	S		
89	10	10	38	127	76	50C	25	50C		
T	U	V								
25	50C	51								



W3-1

COLORS: LEGEND-BLACK(NON-REFL)
BACKGROUND-YELLOW(REFL)
*REDUCE SPACING 20% NO REDUCTION FOR BIKE

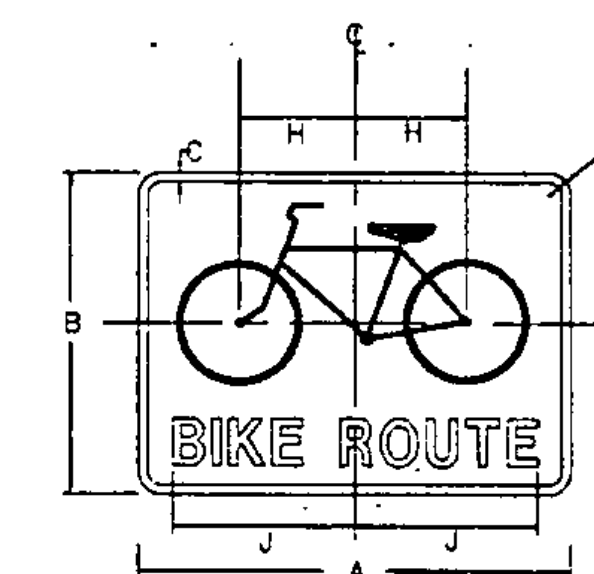
DIMENSIONS (mm)													
A	B	C	D	E	F	G	H	J	K	L	M	N	
450	450	121	133	137	137	38	10	16	75D	44	19	75D	



W5-4

COLORS: LEGEND & BORDER-BLACK(NON-REFL)
BACKGROUND-YELLOW(REFL)
* REDUCE SPACING 50%

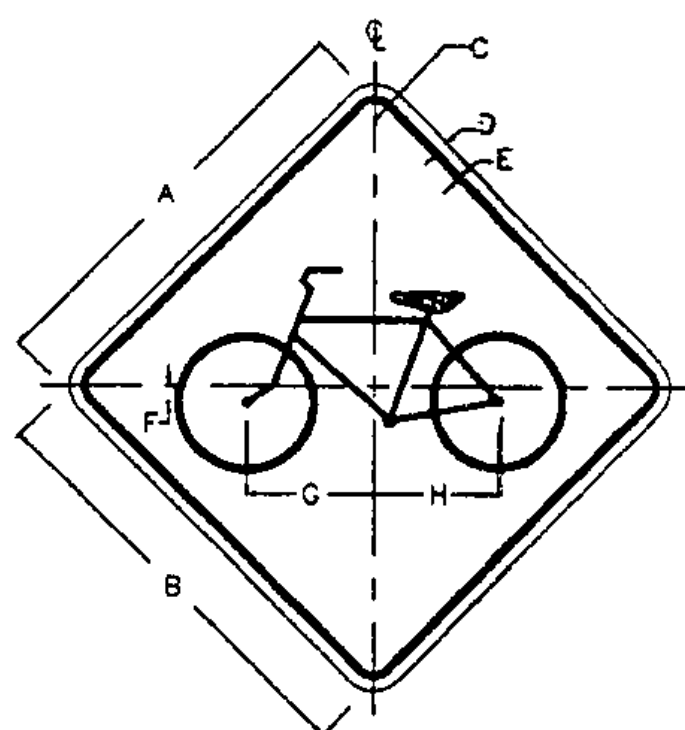
DIMENSIONS (mm)													
A	B	C	D	E	F	G	H	J	K	L	M	N	
450	450	165	181	197	191	38	10	16	75C	25	16	75C	



D11-1

COLORS
LEGEND-WHITE(REFL)
BACKGROUND-GREEN

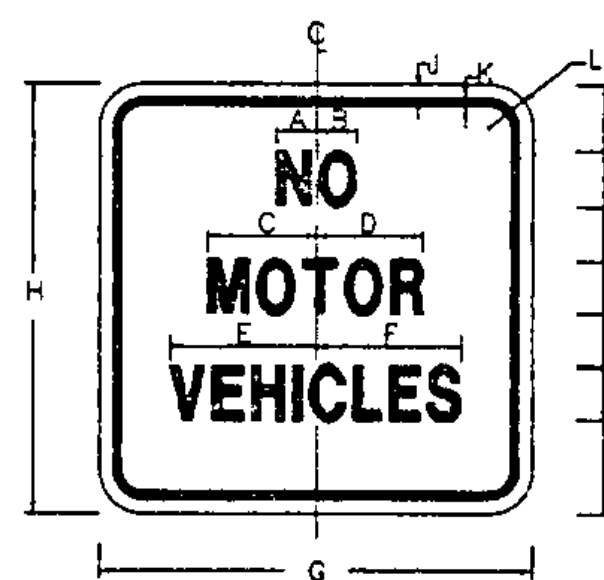
DIMENSIONS (mm)										
A	B	C	D	E	F	G	H	J	K	
600	450	10	35	180	90	75C	140	240	35	



W11-1

COLORS
LEGEND-BLACK(NON-REFL)
BACKGROUND-YELLOW(REFL)

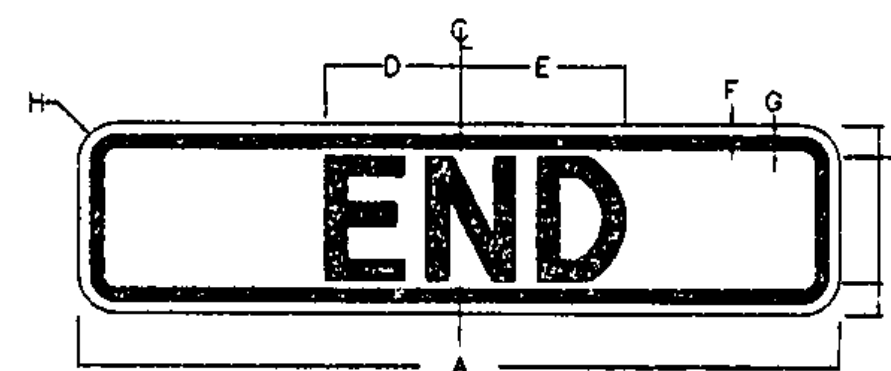
DIMENSIONS (mm)							
A	B	C	D	E	F	G	H
750	750	48	13	19	25	216	216



R5-3

COLORS
LEGEND-BLACK(NON-REFL)
BACKGROUND-WHITE(REFL)

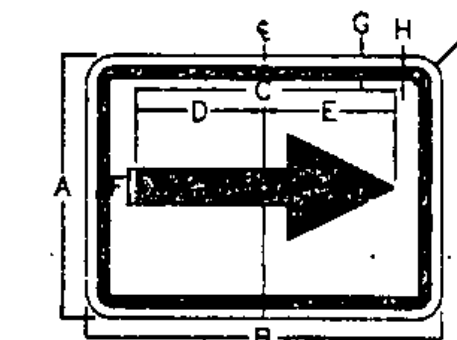
DIMENSIONS (mm)									
A	B	C	D	E	F	G	H	J	
67	73	184	194	216	210	600	600	10	
K	L	M	N	O	P	Q	R	S	
16	38	89	100C	64	100C	64	100B	89	



M4-12

COLORS
LEGEND-WHITE(NON-REFL)
BACKGROUND-GREEN(REFL)

DIMENSIONS (mm)							
A	B	C	D	E	F	G	H
600	40	75C	87	94	10	16	38



M7-1

COLORS
LEGEND-WHITE(NON-REFL)
BACKGROUND-GREEN(REFL)

DIMENSIONS (mm)									
A	B	C	D	E	F	G	H	J	
230	300	222	108	114	41	10	10	38	

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS
UNLESS OTHERWISE NOTED.

DATE	REVISIONS	BY
8-7-95	REVISED PER STATE REVIEW	WRM
5-2-95	REVISED PER STATE REVIEW	DLH
date1-25-94 desc.	REVISED PER STATE REVIEW	by ABR

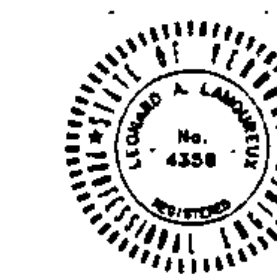
STATE OF VERMONT
AGENCY OF TRANSPORTATION

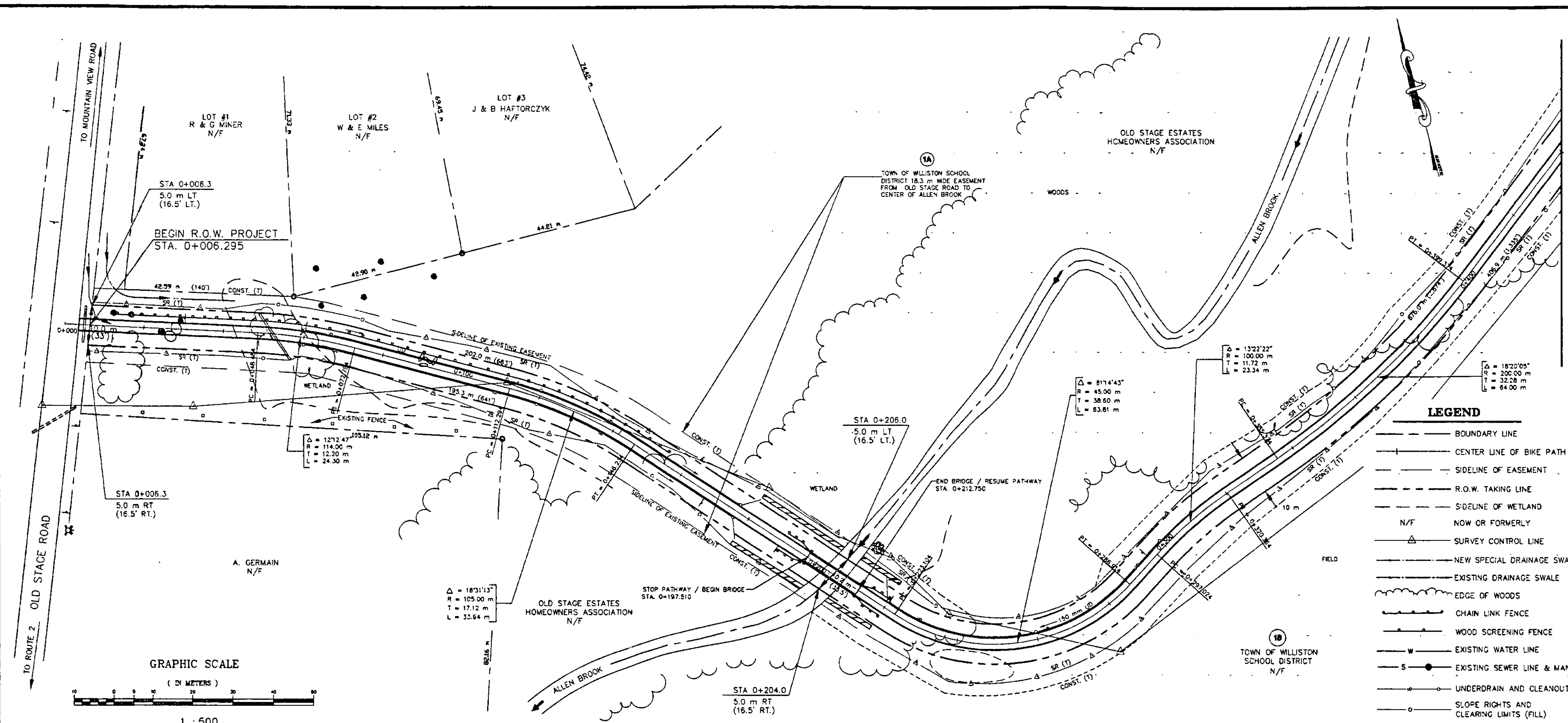
TRANSPORTATION PATH
WILLISTON STP BIKE (Ø)
IN
WILLISTON
VERMONT

LAMOUREUX, STONE & O'LEARY
Consulting Engineers Inc.
14 Morse Drive
Essex Junction, VT 05452
(802) 878-4450
Engineers-Planners-Surveyors

Proj. no.
93-064
Survey
BFD/HLS
Design
LAL
Drawn
PJE/BLH
Checked
DLH/LAL
Date
12-01-93
Scale
1:10'
Sht. no.
31 OF 36

Metric





LEGEND

- BOUNDARY LINE
- CENTER LINE OF BIKE PATH
- SIDELINE OF EASEMENT
- R.O.W. TAKING LINE
- SIDELINE OF WETLAND
- N/F NOW OR FORMERLY
- △ SURVEY CONTROL LINE
- NEW SPECIAL DRAINAGE SWALE
- EXISTING DRAINAGE SWALE
- EDGE OF WOODS
- CHAIN LINK FENCE
- WOOD SCREENING FENCE
- EXISTING WATER LINE
- EXISTING SEWER LINE & MANHOLE
- UNDERDRAIN AND CLEANOUT
- SLOPE RIGHTS AND CLEARING LIMITS (FILL)
- △ SLOPE RIGHTS AND CLEARING LIMITS (CUT)
- IRON PIPE FOUND

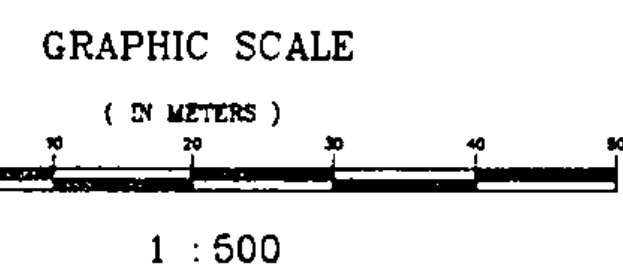


TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS		
1A	TOWN OF WILLISTON SCHOOL DISTRICT	3	0+006.3	0+206.0	0.1987 ha		SLOPE (T) 0.0228 ha			WILLISTON			0.49 ACRE		
			0+006.3 LT	0+134.0 LT			SLOPE (T) 0.0124 ha						1.335 FT ²		
			0+151.3 LT	0+203.3 LT			SLOPE (T) 64.0 m ²						689 FT ²		
			0+006.3 RT	0+059.2 RT			SLOPE (T) 91.3 m ²						982 FT ²		
			0+078.0 RT	0+136.7 RT			SLOPE (T) 72.7 m ²						782 FT ²		
			0+185.0 RT	0+201.0 RT			CONST (T) 0.1066 ha							0.26 ACRE	
1B	TOWN OF WILLISTON SCHOOL DISTRICT	3,4,5	0+204.0 RT	1+092.2 RT	0.8856 ha		SLOPE (T) 0.0127 ha			WILLISTON			2.19 ACRE		
			0+209.8 LT	0+553.0 LT			CONST. (T) 77.2 m ²						831 FT ²		
			0+209.8 LT	0+242.0 LT			CONST. (T) 0.1259 ha						0.31 ACRE		
			0+280.0 LT	0+747.7 LT			SLOPE (T) 0.0471 ha						0.12 ACRE		
			0+206.5 RT	0+365.5 RT			SLOPE (T) 0.0198 ha						0.05 ACRE		
			0+401.8 RT	0+574.0 RT			CONST. (T) 0.1179 ha						0.28 ACRE		
			0+206.5 RT	0+604.0 RT			SLOPE (T) 97.3 m ²						1,047 FT ²		
			0+566.0 LT	0+660.0 LT			SLOPE (T) 0.0138 ha						0.04 ACRE		
			0+672.5 LT	0+866.0 LT			SLOPE (T) 3.7 m ²						40 FT ²		
			0+599.9 RT	0+604.5 RT			SLOPE (T) 0.0157 ha						0.04 ACRE		
			0+614.0 RT	0+747.7 RT			CONST (T) 0.1336 ha						0.33 ACRE		
			0+614.0 RT	1+090.5 RT			DIT (P)								
			0+553.0 LT	0+566.0 LT			DIT (P)								
			0+660.0 LT	0+672.5 LT			SLOPE (T) 0.0227 ha							0.06 ACRE	
			0+888.0 LT	1+048.0 LT			SLOPE (T) 23.3 m ²							250 FT ²	
			1+070.0 LT	1+090.5 LT			SLOPE (T) 0.0183 ha							0.05 ACRE	
			0+893.0 RT	1+051.0 RT											

TABLE OF REVISIONS

REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY

- DR. (P) - DRAINAGE RIGHT
- DIP. (P) - DITCHING RIGHT
- CH. (P) - CHANNEL RIGHT
- DRIVE (T) - DRIVE RIGHT
- CUL. (P) - CULVERT RIGHT
- W - WATER SOURCES
- PRESENT R.O.W.
- TAKING WITHOUT ACCESS
- TAKING WITHOUT ACCESS ALONG PROPERTY LINE
- DRIVE WITH ACCESS
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- CLEAR ZONE
- CONSTRUCTION EASEMENT
- SLOPE RIGHTS
- PROPERTY LINE
- TOP OF CUT
- TOE OF SLOPE



THIS SHEET FOR ROW USE ONLY

DATUM
VERTICAL NAD 1983
HORIZONTAL N/A



12-5-94	GENERAL REVISIONS	DLH
REVISIONS		
THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:		
<input type="checkbox"/>	SKETCH/CONCEPT	# OF SHEETS
<input type="checkbox"/>	PRELIMINARY	
<input checked="" type="checkbox"/>	FINAL	
<input type="checkbox"/>	RECORD DRAWING	
STATE OF VERMONT AGENCY OF TRANSPORTATION		PROJ. NO. 93-064
TRANSPORTATION PATH WILLISTON STP BIKE (9) IN WILLISTON VERMONT		Survey BFD/HLS design LAL Drawn PJE/DLH Checked DLH/LAL date 12-01-93
LAMOREUX & STONE		scale 1:500
14 Horse Drive Essex Jct. VT 05452 (802) 878-4450		sh. no. 33 OF 58
Consulting Engineers Inc.		

MATCHLINE SHEET 5 STATION 0+747.89

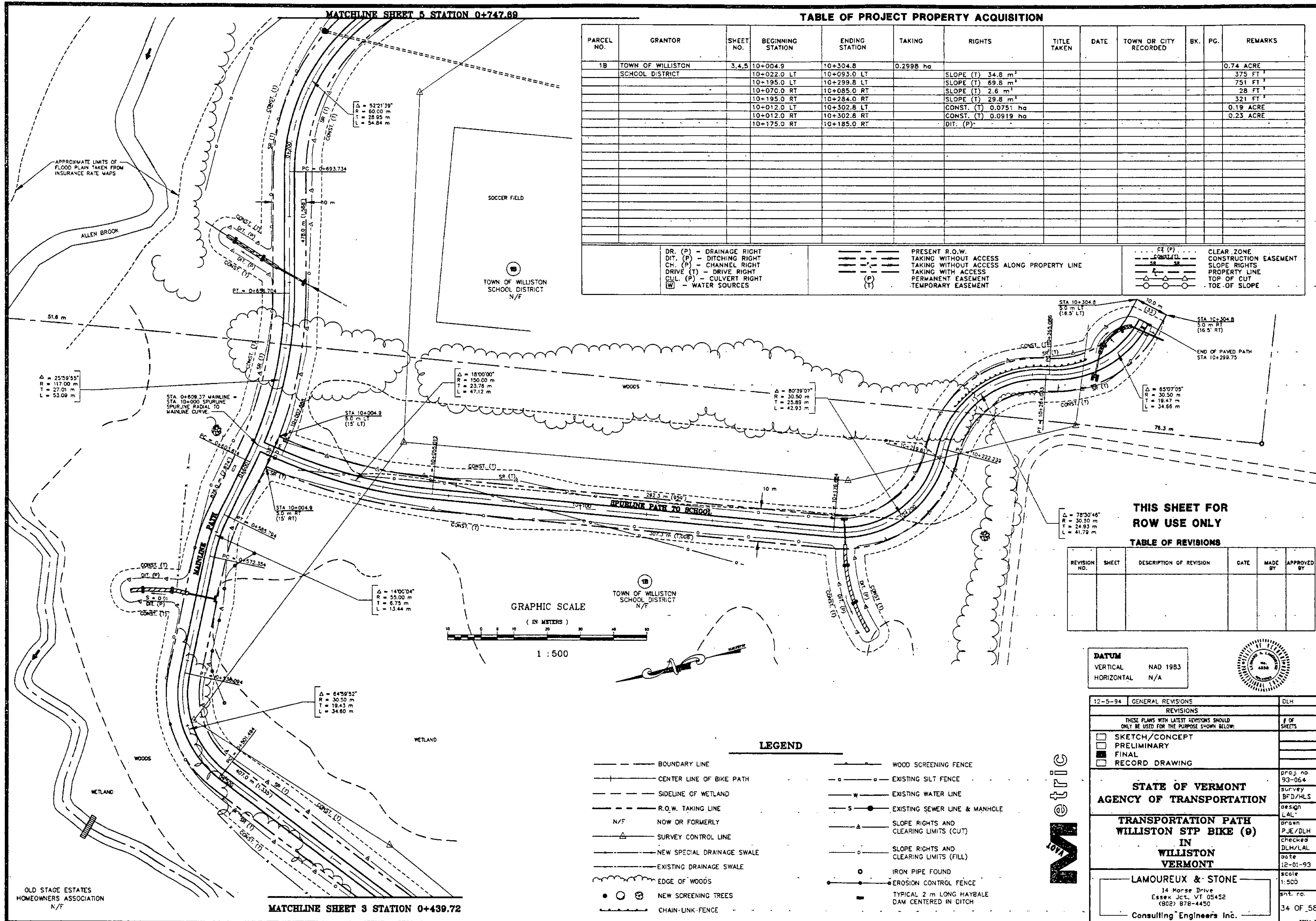
TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
1B	TOWN OF WILLISTON SCHOOL DISTRICT	3,4,5	10+004.9	10+304.8	0.2998 ha							0.74 ACRE
			10+022.0 LT	10+093.0 LT		SLOPE (T) 34.8 m ²						375 FT
			10+195.0 LT	10+299.8 LT		SLOPE (T) 69.8 m ²						751 FT
			10+070.0 RT	10+085.0 RT		SLOPE (T) 2.6 m ²						28 FT
			10+195.0 RT	10+284.0 RT		SLOPE (T) 29.8 m ²						321 FT
			10+012.0 LT	10+302.8 LT		CONST. (T) 0.0751 ha						0.19 ACRE
			10+012.0 RT	10+302.8 RT		CONST. (T) 0.0919 ha						0.25 ACRE
			10+175.0 RT	10+185.0 RT		DIT. (P)						

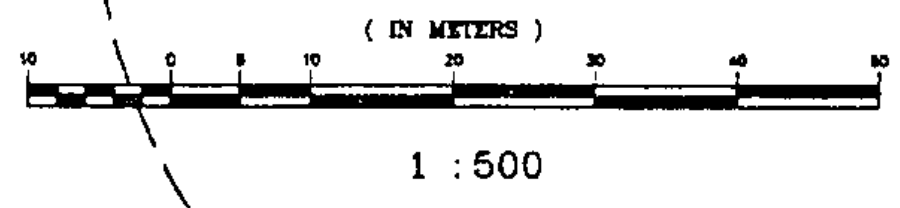
DR. (P) - DRAINAGE RIGHT
 DIT. (P) - DITCHING RIGHT
 CH. (P) - CHANNEL RIGHT
 DRIVE (T) - DRIVE RIGHT
 CUL. (P) - CULVERT RIGHT
 W - WATER SOURCES

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

ST (P) - CLEAR ZONE
 CONST. (T) - CONSTRUCTION EASEMENT
 SLOPE (T) - SLOPE RIGHTS
 PROPERTY LINE
 TOP OF CUT
 TOE OF SLOPE



GRAPHIC SCALE



LEGEND

- BOUNDARY LINE
- CENTER LINE OF BIKE PATH
- SIDELINE OF WETLAND
- R.O.W. TAKING LINE
- N/F NOW OR FORMERLY
- SURVEY CONTROL LINE
- NEW SPECIAL DRAINAGE SWALE
- EXISTING DRAINAGE SWALE
- EDGE OF WOODS
- NEW SCREENING TREES
- CHAIN-LINK FENCE
- WOOD SCREENING FENCE
- EXISTING SILT FENCE
- EXISTING WATER LINE
- EXISTING SEWER LINE & MANHOLE
- SLOPE RIGHTS AND CLEARING LIMITS (CUT)
- SLOPE RIGHTS AND CLEARING LIMITS (FILL)
- IRON PIPE FOUND
- EROSION CONTROL FENCE
- TYPICAL 2 m LONG HAYBALE DAM CENTERED IN DITCH

THIS SHEET FOR ROW USE ONLY

TABLE OF REVISIONS

REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY

DATUM
 VERTICAL NAD 1983
 HORIZONTAL N/A



12-5-94 GENERAL REVISIONS DLH

REVISIONS	# OF SHEETS
THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:	
SKETCH/CONCEPT	
PRELIMINARY	
FINAL	
RECORD DRAWING	

STATE OF VERMONT
 AGENCY OF TRANSPORTATION

TRANSPORTATION PATH
 WILLISTON STP BIKE (9)
 IN
 WILLISTON
 VERMONT

LAMOUREUX & STONE
 14 Morse Drive
 Essex Jct., VT 05452
 (802) 878-4450
 Consulting Engineers Inc.

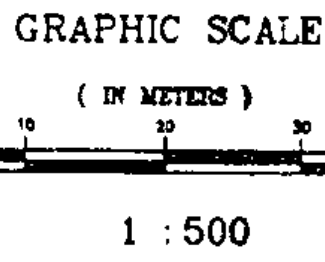
proj. no. 93-064
 survey BFD/HLS
 design LAL
 drawn PJE/DLH
 checked DLH/LAL
 date 12-01-93
 scale 1:500
 sht. no. 34 OF 58

OLD STAGE ESTATES HOMEOWNERS ASSOCIATION N/F

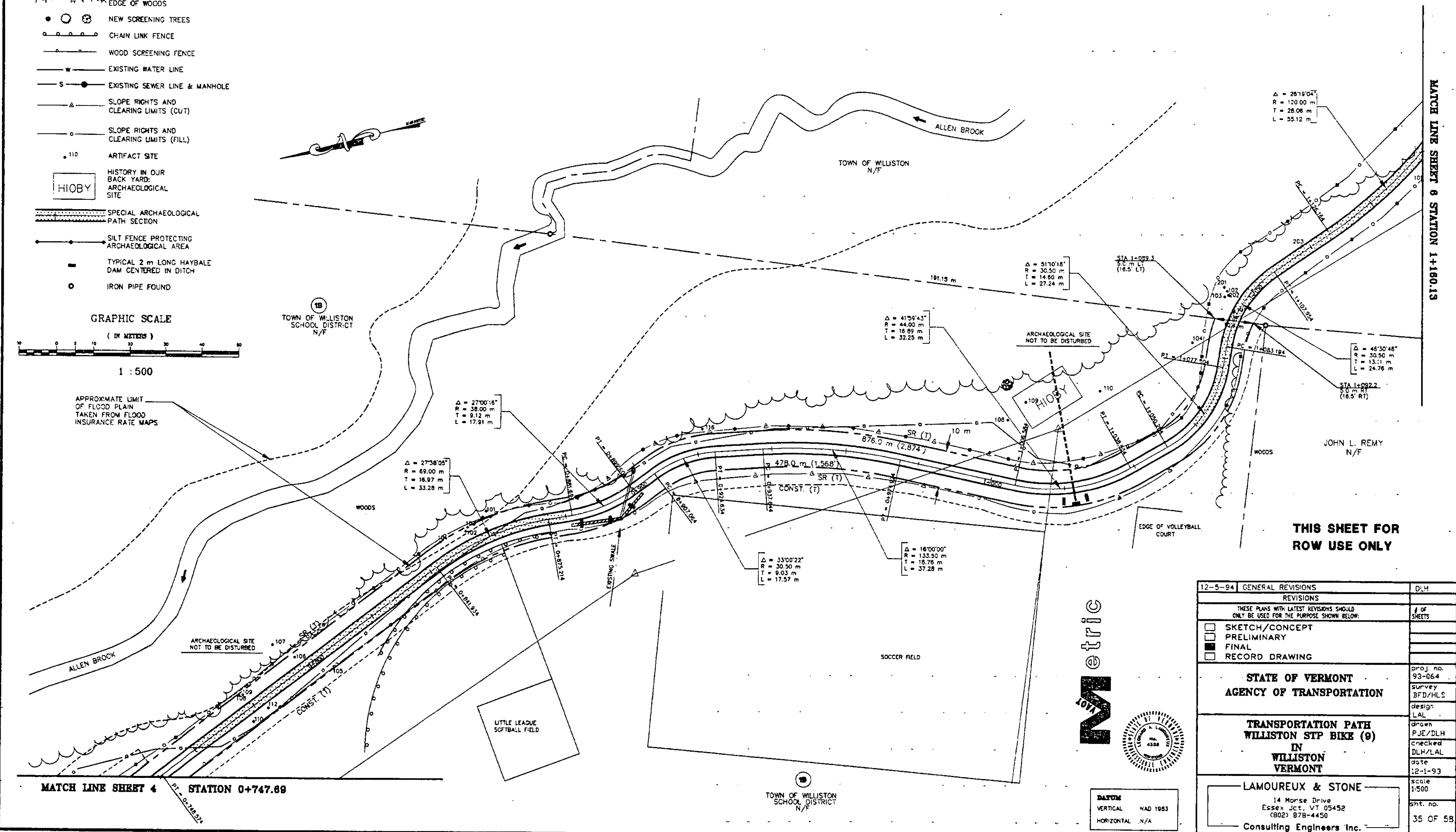
MATCHLINE SHEET 3 STATION 0+439.72

LEGEND

- BOUNDARY LINE
- CENTER LINE OF BIKE PATH
- SIDELINE OF WETLAND
- R.O.W. TAKING LINE
- N/F NOW OR FORMERLY
- SURVEY CONTROL LINE
- NEW SPECIAL DRAINAGE SWALE
- EXISTING DRAINAGE SWALE
- EDGE OF WOODS
- ○ ⊗ NEW SCREENING TREES
- ○ ○ ○ ○ CHAIN LINK FENCE
- WOOD SCREENING FENCE
- EXISTING WATER LINE
- S ● EXISTING SEWER LINE & MANHOLE
- SLOPE RIGHTS AND CLEARING LIMITS (CUT)
- SLOPE RIGHTS AND CLEARING LIMITS (FILL)
- 110 ARTIFACT SITE
- HIOPY HISTORY IN OUR BACK YARD: ARCHAEOLOGICAL SITE
- SPECIAL ARCHAEOLOGICAL PATH SECTION
- SILT FENCE PROTECTING ARCHAEOLOGICAL AREA
- TYPICAL 2 m LONG HAYBALE DAM CENTERED IN DITCH
- IRON PIPE FOUND



APPROXIMATE LIMIT OF FLOOD PLAIN TAKEN FROM FLOOD INSURANCE RATE MAPS



MATCH LINE SHEET 4 STATION 0+747.69

MATCH LINE SHEET 6 STATION 1+180.13

THIS SHEET FOR ROW USE ONLY

Metric



DATUM
VERTICAL NAD 1983
HORIZONTAL N/A

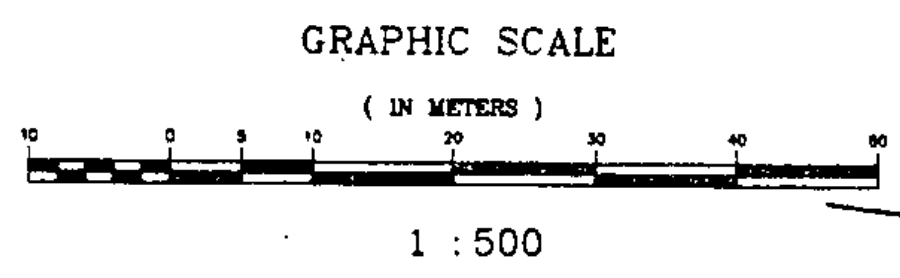
12-5-94 GENERAL REVISIONS	DLH
REVISIONS	
THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:	# OF SHEETS
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<input type="checkbox"/> PRELIMINARY	
<input checked="" type="checkbox"/> FINAL	
<input type="checkbox"/> RECORD DRAWING	
STATE OF VERMONT	
AGENCY OF TRANSPORTATION	
TRANSPORTATION PATH	
WILLISTON STP BIKE (9)	
IN	
WILLISTON	
VERMONT	
LAMOUREUX & STONE	
14 Morse Drive Essex Jct. VT 05452 (802) 878-4450	
Consulting Engineers Inc.	
Scale 1:500	Sht. no. 35 OF 58

MATCH LINE SHEET 5 STATION 1+160.13

LEGEND

- BOUNDARY LINE
- CENTER LINE OF BIKE PATH
- SIDELINE OF WETLAND
- N/F NOW OR FORMERLY
- SURVEY CONTROL LINE
- NEW SPECIAL DRAINAGE SWALE
- EXISTING DRAINAGE SWALE
- EDGE OF WOODS
- NEW SCREENING TREES
- CHAIN LINK FENCE
- WOOD SCREENING FENCE
- EXISTING WATER LINE
- EXISTING SEWER LINE & MAN-HOLE
- EXISTING OVERHEAD UTILITY WIRES
- SLOPE RIGHTS AND CLEARING LIMITS (CUT)
- SLOPE RIGHTS AND CLEARING LIMITS (FILL)
- 110 ARTIFACT SITE
- SPECIAL ARCHAEOLOGICAL PATH SECTION
- R.O.W. TAKING LINE
- IRON PIPE FOUND
- TYPICAL 2 m LONG HAYBALE DAM CENTERED IN DITCH
- EROSION CONTROL FENCE
- SILT FENCE PROTECTING ARCHAEOLOGICAL AREA

Δ = 45°43'19"
R = 100.00 m
T = 42.16 m
L = 79.90 m



INSET : STA 1358.9 TO 1+440.9

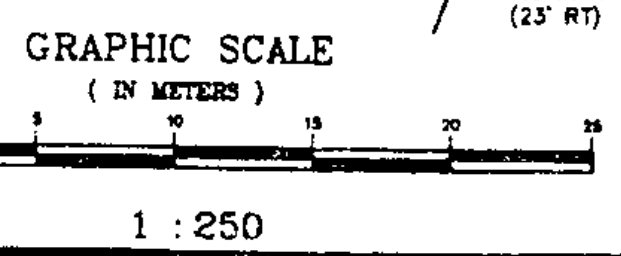
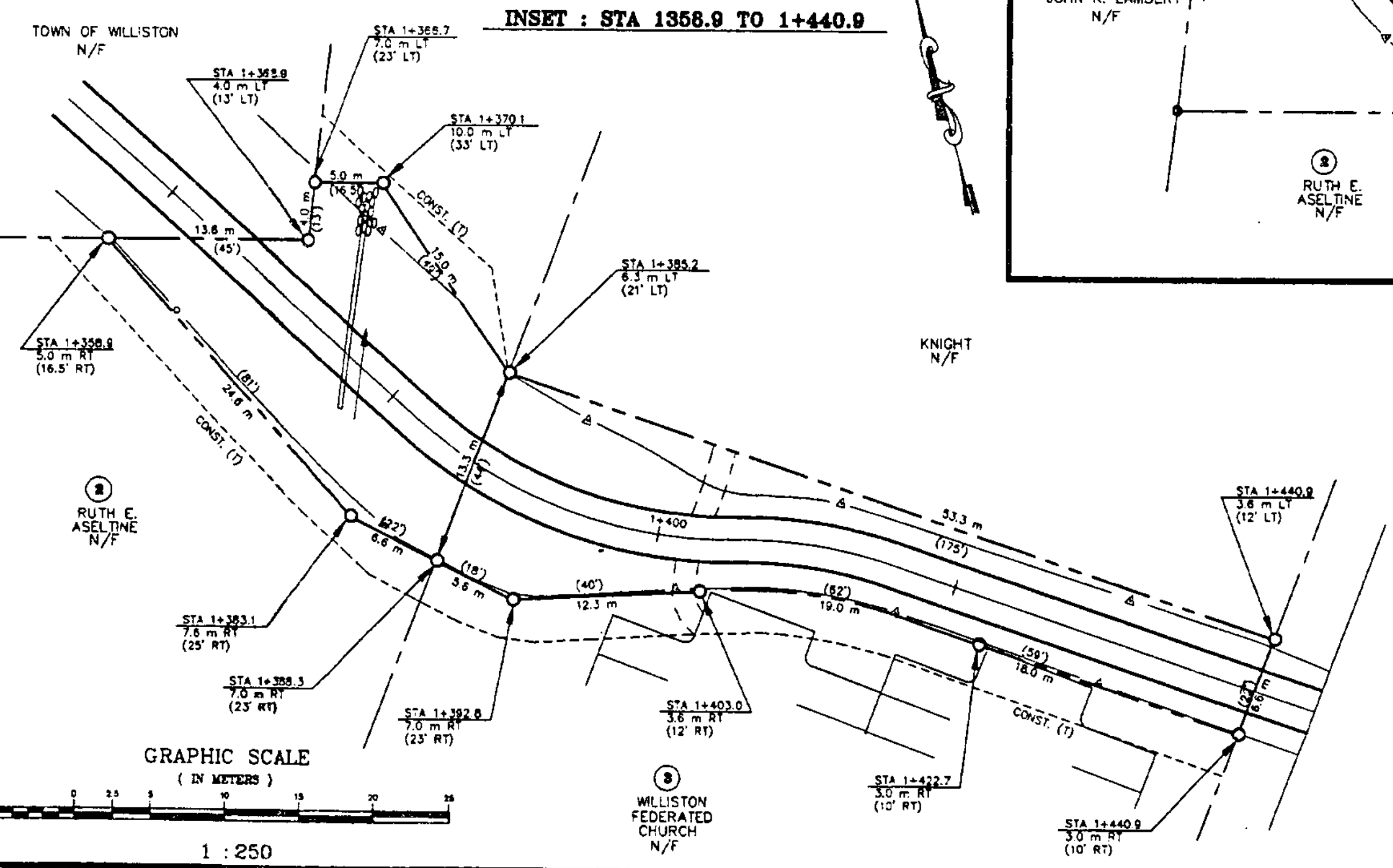


TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
2	RUTH E. ASELYNE	6	1+358.9 RT	1+385.2 LT	0.0328 ha					WILLISTON			0.08 ACRE
			1+364.0 LT	1+385.0 LT			CONST. (T)	36.2 m ²					390 FT ²
			1+356.0 RT	1+388.5 RT			CONST. (T)	71.6 m ²					771 FT ²
3	WILLISTON FEDERATED CHURCH	6	1+385.2 LT	1+440.9 RT	0.0466 ha					WILLISTON			0.12 ACRE
			1+388.3 RT	1+440.9 RT			CONST. (T)	125 m ²					0.03 ACRE

- DR. (P) - DRAINAGE RIGHT
- DIT. (P) - DITCHING RIGHT
- CH. (P) - CHANNEL RIGHT
- 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
- (P) PERMANENT EASEMENT
- (T) TEMPORARY EASEMENT

- CLEAR ZONE CONSTRUCTION EASEMENT
- SLOPE RIGHTS PROPERTY LINE
- TOP OF CUT
- TOE OF SLOPE

TABLE OF REVISIONS

REVISION NO.	SHEET	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY

SEE INSET FOR TAKING LINES STA 1+358.9 TO STA 1+440.9

END OF R.O.W. PROJECT STA 1+440.954

END OF PAVED PATH STA 1+442.134

Metric
THIS SHEET FOR ROW USE ONLY

12-5-94	GENERAL REVISIONS	DLH
date	desc.	by
REVISIONS		
THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:		
<input type="checkbox"/> SKETCH/CONCEPT		1 of SHEETS
<input type="checkbox"/> PRELIMINARY		
<input type="checkbox"/> FINAL		
<input type="checkbox"/> RECORD DRAWING		
STATE OF VERMONT AGENCY OF TRANSPORTATION		Proj. no. 93-064
TRANSPORTATION PATH WILLISTON STP BIKE (9) IN WILLISTON VERMONT		Survey BFD/HLS design LAL drawn PJE/DLH checked DLH/LAL date 12-01-93 scale 1:500 sht. no. 36 OF 58
LAMOUREUX & STONE 14 Morse Drive Essex Jct., VT 05452 (802) 876-4450 Consulting Engineers Inc.		

DATUM
VERTICAL NAD 1983
HORIZONTAL N/A