

OUTAGAMIE

6037-02-72

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

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TOTAL SHEETS = 63

CONTRACTOR
OUTAGAMIE COUNTY HIGHWAY
DEPARTMENT
1313 HOLLAND ROAD
APPLETON, WI 54915

SUBCONTRACTOR
JIM FISCHER, INC
407 N. CASALOMA DRIVE
APPLETON, WI 54914

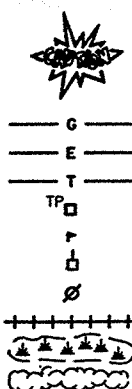
DESIGN DESIGNATION

A.D.T. (1990)	=	1,750
A.D.T. (2013)	=	2,240
D.H.V. (2013)	=	22
D.	=	60-40
T.	=	10 A.D.T.
V.	=	55/35 M.P.H.
ESALS	=	178,000

CONVENTIONAL SIGNS

COUNTY LINE	---
CORPORATE LIMITS	////
PROPERTY LINE	----
LOT LINE	----
LIMITED HIGHWAY EASEMENT	----
EXISTING RIGHT OF WAY	----
NEW RIGHT OF WAY	----
REFERENCE LINE	----
SLOPE INTERCEPT	----
ORIGINAL GROUND	----
MARSH OR ROCK PROFILE	----
CULVERT IN PLACE	----
CULVERT REQUIRED	----
CULVERT REQUIRED (Profile)	----

COMBUSTIBLE FLUIDS (UNDER PRESSURE)
UNDERGROUND UTILITIES GAS
ELECTRIC
TELEPHONE
SERVICE PEDESTAL
CABLE MARKER
POWER POLE
TELEPHONE POLE
RAILROADS
MARSH
WOODED AREA



TOTAL NET LENGTH OF CENTERLINE = 2.068 MI. (RURAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
C.T.H. "C" - S.T.H. "55"
C.T.H. "S"
OUTAGAMIE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6037-02-72	MA-D 1090(4)	1

BRIAN STURTEVANT, PROJECT MANAGER
TODD J. BUHR, PROJECT ENGINEER
OMNII ENGINEERS
303 S. BLUEMOUND DRIVE
APPLETON, WI 54914

STATE PROJECT NUMBER
6037-02-72

AS BUILT PLAN
NO.

EXCEPTION TO NET LENGTH OF PROJECT 6037-02-72
STRUCTURE B-44-168
STA. 258+84.93 TO STA. 259+37.76
CONTRACTOR OUTAGAMIE COUNTY
COMPLETED 7-7-94

BEGIN PROJECT
STA. 235+00.00
X = 2,435,400 (± 100')
Y = 206,100 (± 100')

END PROJECT
STA. 345+38.00

EXCEPTION TO NET LENGTH OF PROJECT 6037-02-71
STRUCTURE B-44-168
STA. 331+56.51 TO STA. 332+23.43

PROJECT ENGINEERS
DIARY 13771
STARTED JUNE 7, 1993
ENDED

ALL COORDINATES SHOWN ON THIS PLAN ARE
SCALED FROM U.S.G.S. TOPOGRAPHIC MAP,
FREEDOM, WI. 7.5 MINUTE QUADRANGLE,
CENTRAL ZONE, FOR IDENTIFICATION ONLY.

9661 S - NW

S-22

APPROVED
FOR
OUTAGAMIE COUNTY

7/10/94
DATE

COUNTY HIGHWAY COMMISSIONER



PLAN PREPARED
BY
AYRES ASSOCIATES
CONSULTING ENGINEERS
GREEN BAY, WISCONSIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	AYRES ASSOC.
Designer	AYRES ASSOC.
District Examiner	M. W. DOBSON
District Supervisor	J. L. LAMERS
C.O. Coordinator	D. L. Lyford
C.O. Examiner	E. N. BENISCH

APPROVED FOR DISTRICT OFFICE

DATE 1-12-93 Marc W. Dobson P.E.
(Signature)

AUTHORIZED FOR CENTRAL OFFICE DESIGN

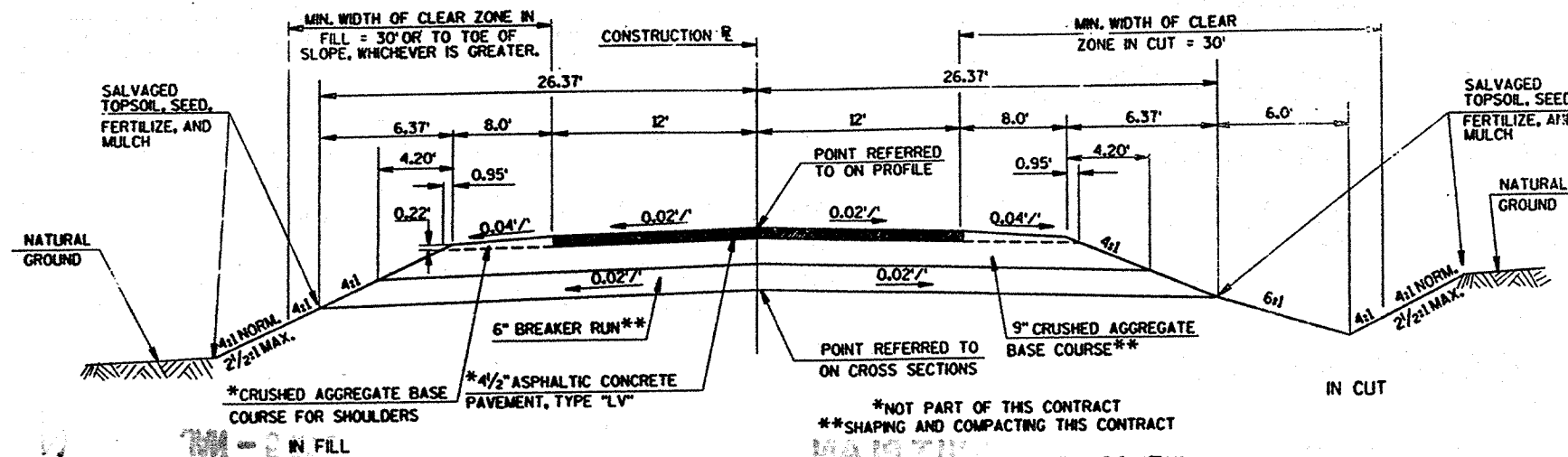
DATE 3/1/93 Harold E. Remondin
(Signature)

S-22

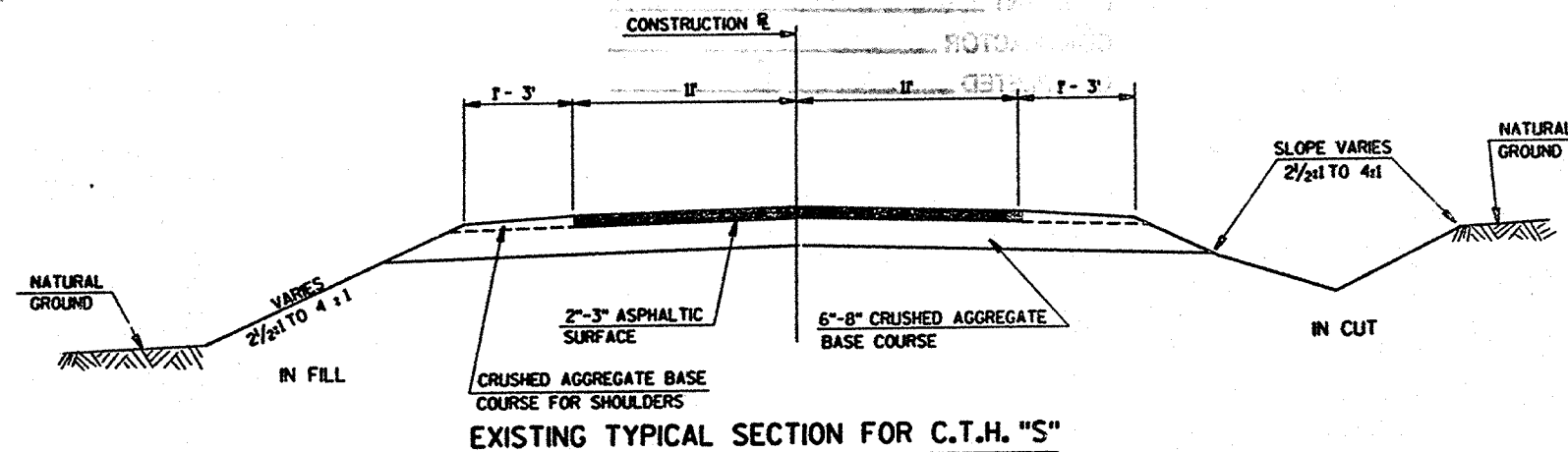
WISDOT/CADDs SHEET 10

DISTRICT

S-22



TYPICAL FINISHED SECTION FOR C.T.H. "S" AND VINE ROAD (SOUTH)



EXISTING TYPICAL SECTION FOR C.T.H. "S"

UTILITIES

WISCONSIN BELL COMPANY
221 WEST WASHINGTON STREET
P.O. BOX 259
APPLETON, WISCONSIN 54913
ATTENTION: MR. KEITH KRISHER

TELEPHONE 1-414-735-3250

DIGGERS' HOTLINE

TELEPHONE 1-800-242-8511
TOLL FREE

WISCONSIN GAS COMPANY
1921 SOUTH 8th STREET
P.O. BOX 789
WISCONSIN RAPIDS, WISCONSIN 54494
ATTENTION: MR. DEAN SULLIVAN

TELEPHONE 1-715-432-2800

FREEDOM SANITARY DISTRICT NO. 1
P.O. BOX 104
FREEDOM, WISCONSIN 54131
ATTENTION: MR. MARK KERKHOFF

TELEPHONE 1-414-788-5763

WISCONSIN ELECTRIC POWER COMPANY
800 SOUTH LYNDALE
P.O. BOX 1699
APPLETON, WISCONSIN 54914
ATTENTION: ENGINEERING DEPARTMENT

TELEPHONE 1-414-735-0705

STANDARD DETAIL DRAWINGS

CONCRETE CURB, CONCRETE CURB AND GUTTER, AND PAVEMENT TIES
CURB RAMPS
EROSION MAT
SILT FENCE
APRON ENDWALLS FOR CULVERT PIPE
APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
AT-GRADE SIDE ROAD INTERSECTIONS, TYPES "B", "C", AND "D"
AT-GRADE SIDE ROAD INTERSECTIONS, TYPES "A" AND PASSING LANES
BARRICADES AND TRAFFIC CONTROL FOR ROAD CLOSURE

801-11
805-8
8E7-1
8E9-3
8F1-10a
8F1-10b
9A1-8a
9A1-8b
15C2-2

GENERAL NOTES

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

ELEVATIONS SHOWN ON THE ROADWAY CROSS SECTIONS ARE EARTH GRADE ELEVATIONS AT THE CENTERLINE OF THE ROADWAY.

WHEN THE QUANTITY OF CRUSHED AGGREGATE BASE COURSE AND BREAKER RUN STONE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS AS SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

CURVE DATA IS BASED ON ARC DEFINITION.

DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SUBGRADE SHOULDER POINTS, ARE TO BE TOPSOILED, FERTILIZED, SEED, AND MULCHED AS DIRECTED BY THE ENGINEER.

SALVAGED TOPSOIL SHALL BE USED ON AREAS WHERE SOO IS TO BE PLACED.

PROPERTY LINES AS SHOWN ARE APPROXIMATE.

ALL DISTANCES ARE GROUND DISTANCE.

ALL TIES ON THIS PLAN ARE HORIZONTAL UNLESS DESCRIBED OTHERWISE.

BEARINGS SHOWN ON THIS PLAN ARE GRID BEARINGS TO THE NEAREST SECOND.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

SILT FENCE SHALL MEET THE MATERIAL SPECIFICATIONS FOR SILTY SOILS. THE EXACT LOCATION OF SILT FENCE SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD.

EXCAVATION BELOW SUBGRADE (E.B.S.) AS SHOWN ON THE PLAN AND PROFILE SHEETS SHALL BE MEASURED AND PAID FOR AS UNCLASSIFIED EXCAVATION. THE EXACT LIMITS AND LOCATION FOR E.B.S. SHALL BE DETERMINED BY THE ENGINEER.

CONSTRUCTION PERMITS FOR P.E.'S AND DRAINAGE EXCAVATION HAVE BEEN OBTAINED AND THOSE RIGHTS HAVE BEEN EXTENDED TO THE CONTRACTOR.

INLET AND DISCHARGE ELEVATIONS SHOWN ON THE PLAN SHEETS ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

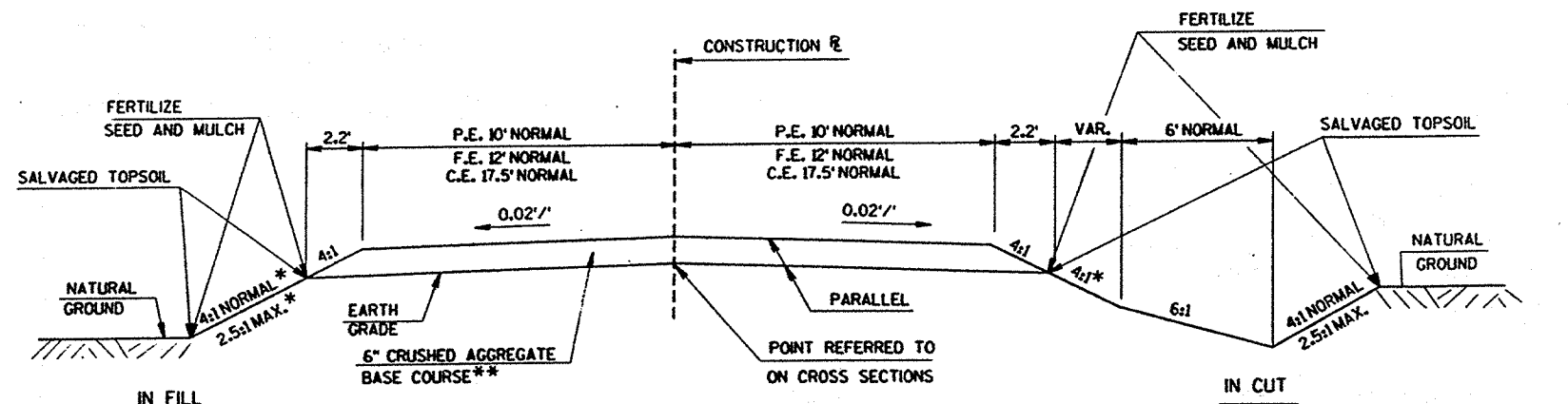
THE EXACT LOCATION OF CULVERT PIPES SHALL DETERMINED BY THE ENGINEER IN THE FIELD.

FILL AS SHOWN ON THE PLAN PERTAINS TO EMBANKMENT CONSTRUCTED FROM BORROW EXCAVATION OR UNCLASSIFIED EXCAVATION. THE ALLOWANCE USED FOR EXPANDING THE FILLS TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 40% PERCENT.

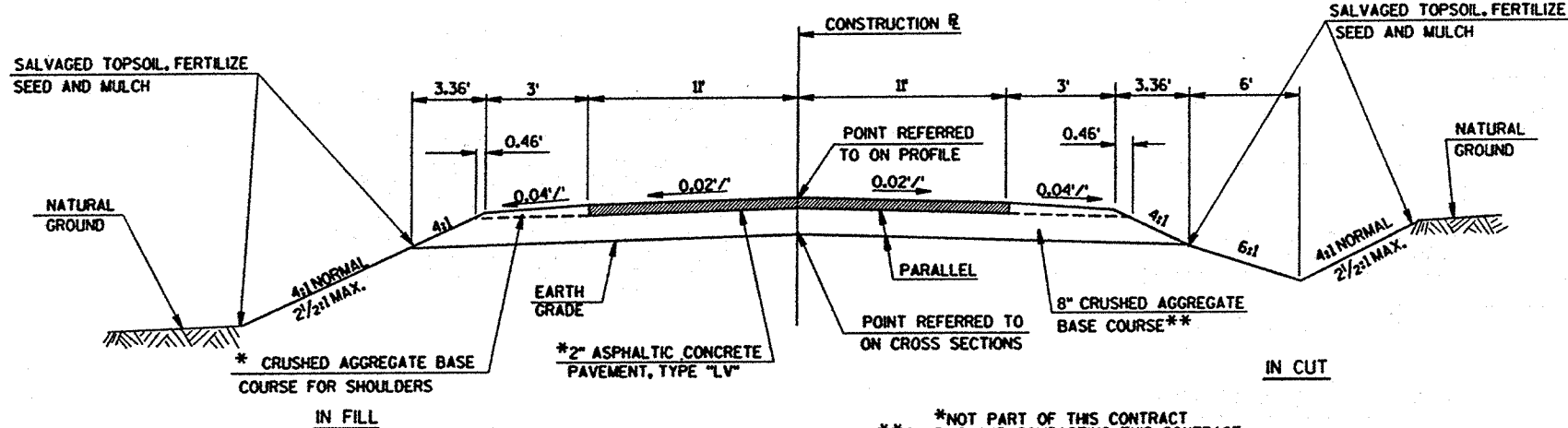
EARTHWORK BALANCES AND HAULS AS SHOWN ON THE PLAN AND PROFILE SHEETS MAY BE REVISED WITH THE APPROVAL OF THE ENGINEER IF SUCH REVISIONS WILL FACILITATE THE CONTRACTOR'S PLAN OF OPERATION AND SATISFY THE REQUIREMENTS OF THE CONTRACT PLANS, SPECIFICATIONS AND SPECIAL PROVISIONS.

CURB HEIGHTS AT THE END OF THE CURB AND GUTTER SHALL BE TAPERED FROM 6 INCHES TO 0 INCHES IN 10 FEET UNLESS OTHERWISE INDICATED.

STORM SEWER, CONCRETE SIDEWALK, CONCRETE CURB AND GUTTER, 36-INCH, TYPE "D", ASPHALTIC CONCRETE PAVEMENT, BEAM GUARD, AND CONCRETE DRIVEWAYS ARE NOT PART OF THIS CONTRACT.

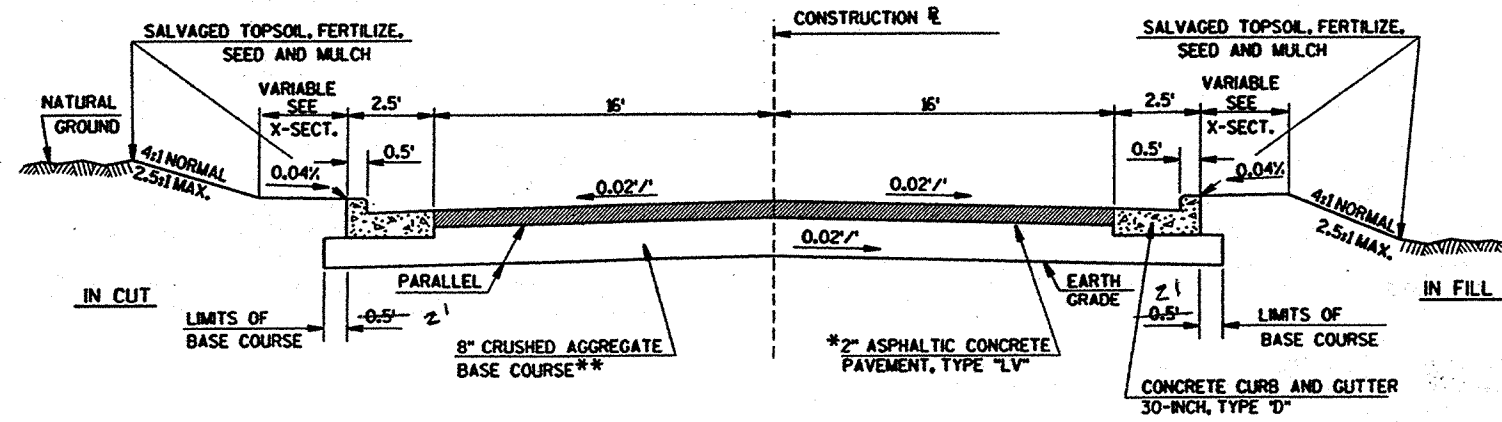


TYPICAL FINISHED SECTION FOR CRUSHED AGGREGATE PRIVATE ENTRANCES.
COMMERCIAL ENTRANCES AND FIELD ENTRANCES

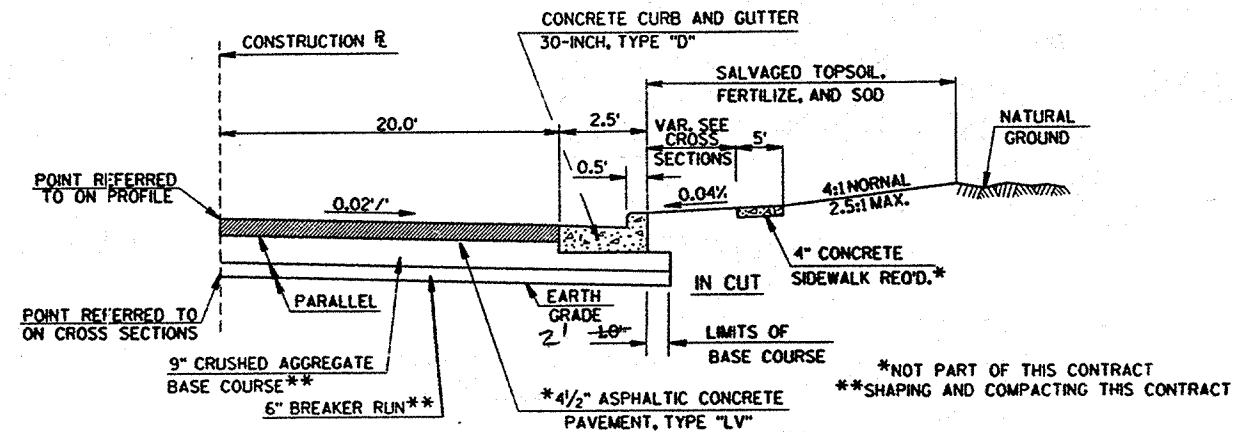


TYPICAL FINISHED SECTION FOR SIDE ROADS

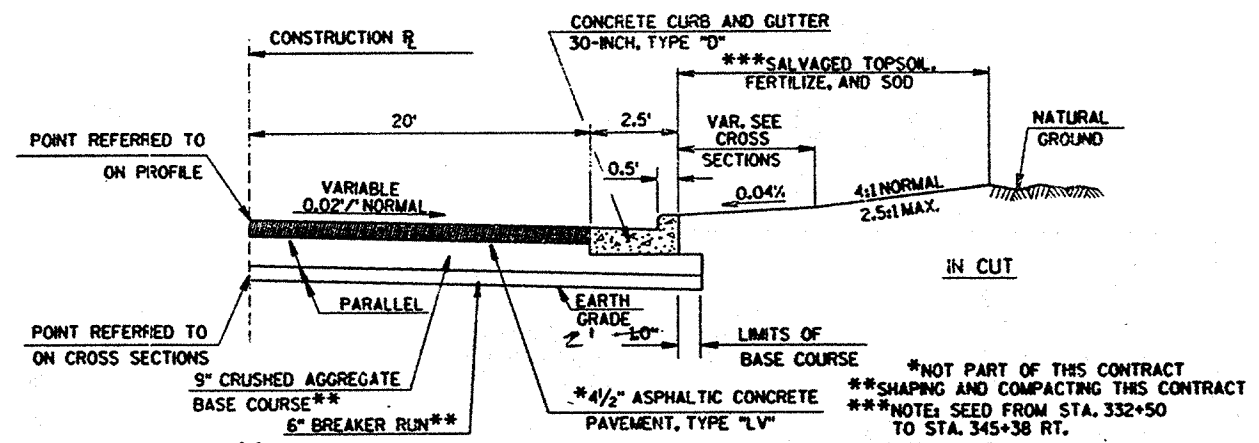
GONNERING COURT
MURPHY ROAD
VINE ROAD
MALLARD LANE



TYPICAL FINISHED SECTION FOR OAK LANE



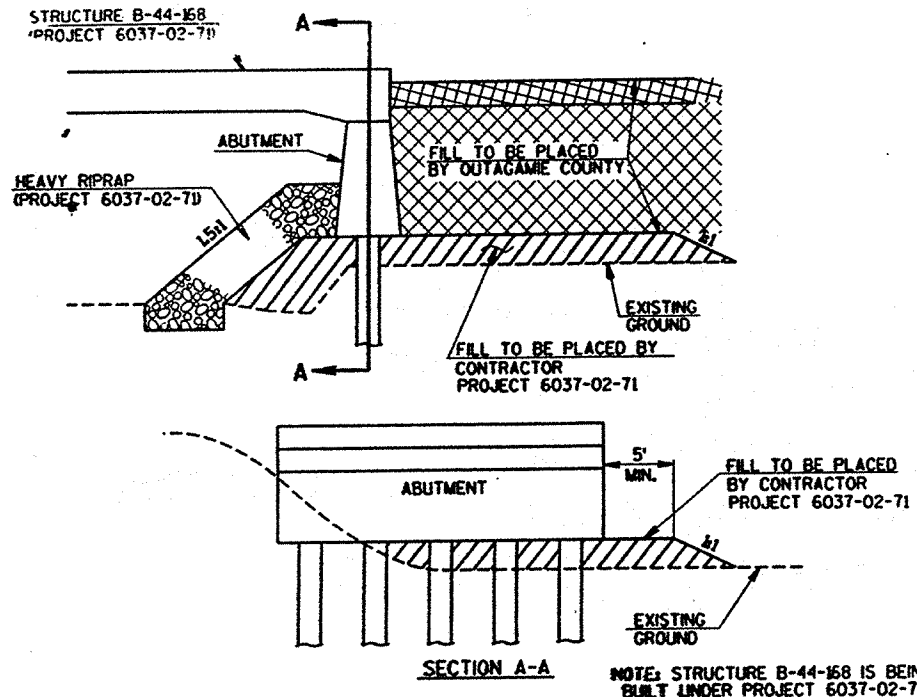
1/2 TYPICAL FINISHED CROSS SECTION FOR C.T.H. "S"
STA. 321+00 - 345+38 LT.



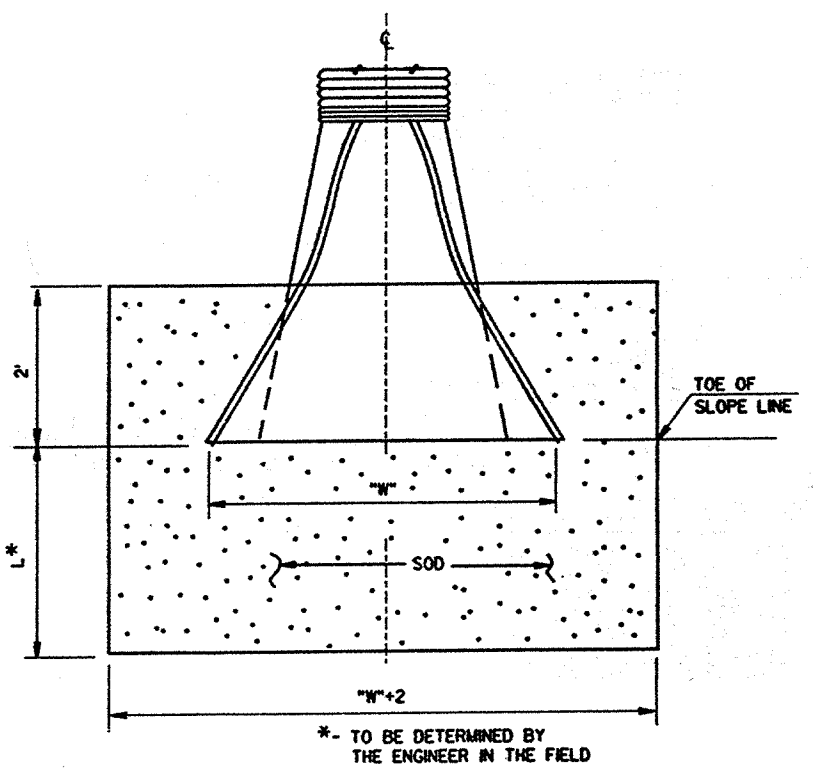
1/2 TYPICAL FINISHED CROSS SECTION FOR C.T.H. "S"

STA. 235+00 - 242+00 LT.
STA. 250+00 - 256+00 LT.
STA. 254+50 - 258+80 RT.
STA. 263+00 - 266+61 LT.
STA. 283+00 - 285+50 RT.
STA. 284+00 - 288+00 LT.
STA. 332+50 - 345+38 RT.

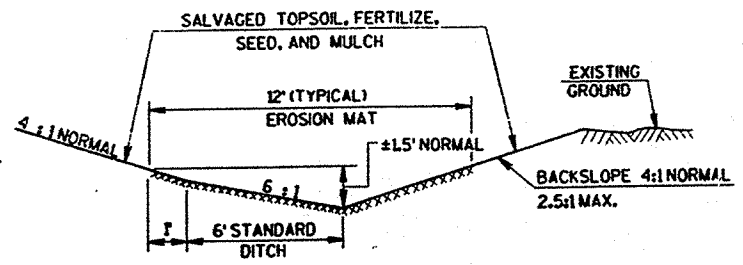
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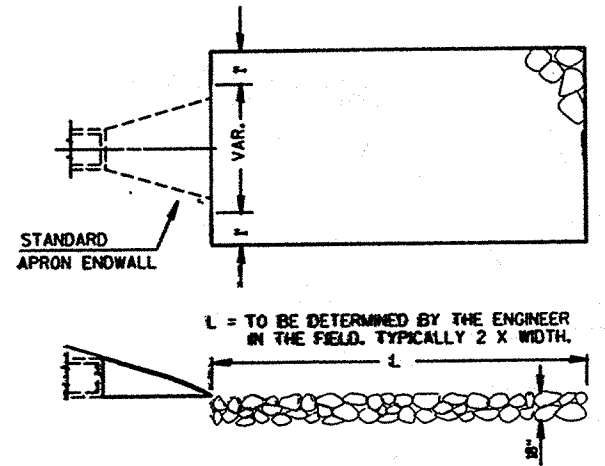
EXCAVATION AND BACKFILL FOR STRUCTURE



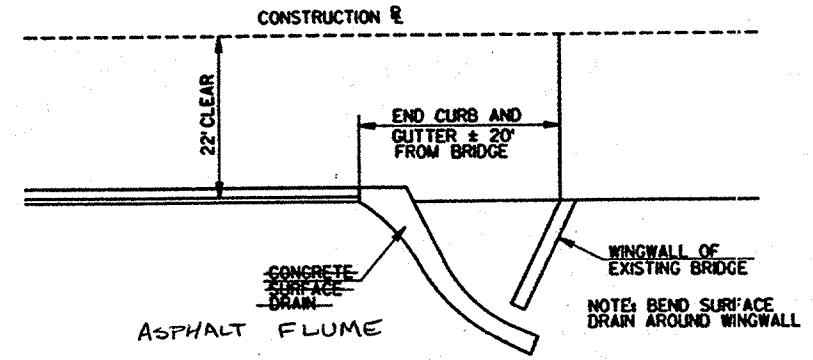
SOD AT END OF PIPE
(CONCRETE OR METAL)



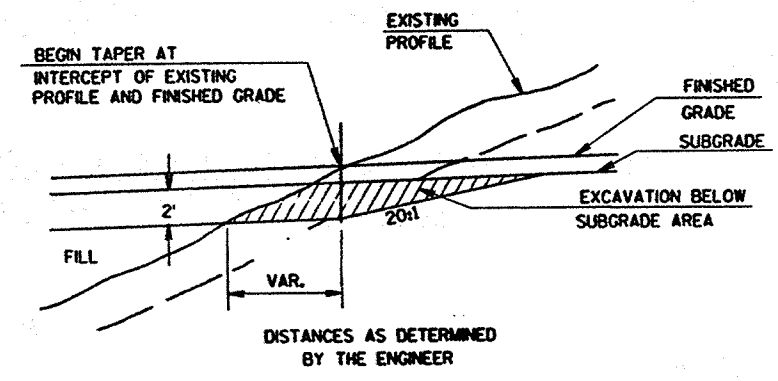
TYPICAL INSTALLATION FOR EROSION MAT
DITCH LINING



MEDIUM RANDOM RIPRAP DISCHARGE APRON

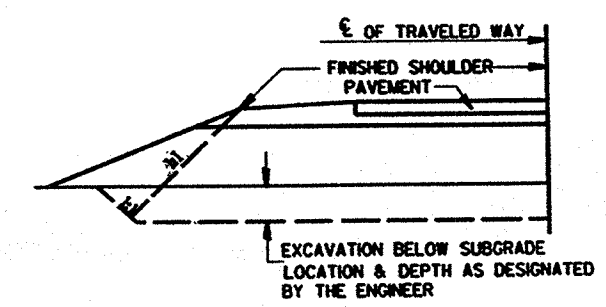


**ASPHALT FLUME
CONCRETE SURFACE DRAIN AT EXISTING BRIDGE (BY OTHERS)**
STA. 258+50 LT.
STA. 258+80 RT.



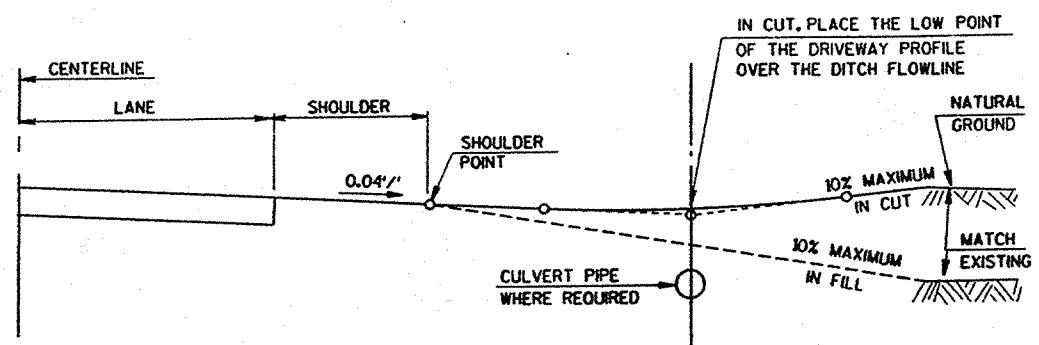
PROFILE AT UNDERCUT LOCATIONS

NOTE: EXCAVATE BELOW SUBGRADE ALL MOUTHS OF CUTS. EXACT LOCATIONS AND EXTENT OF EXCAVATION BELOW SUBGRADE (E.B.S.) SHALL BE DETERMINED BY ENGINEER IN THE FIELD. E.B.S. AREA TO BE BACKFILLED MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL ACCEPTABLE TO THE ENGINEER. THE FILL WITHIN 100-FT. OF THE MOUTH OF THE CUT MUST BE KEPT 2-FT. BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED.

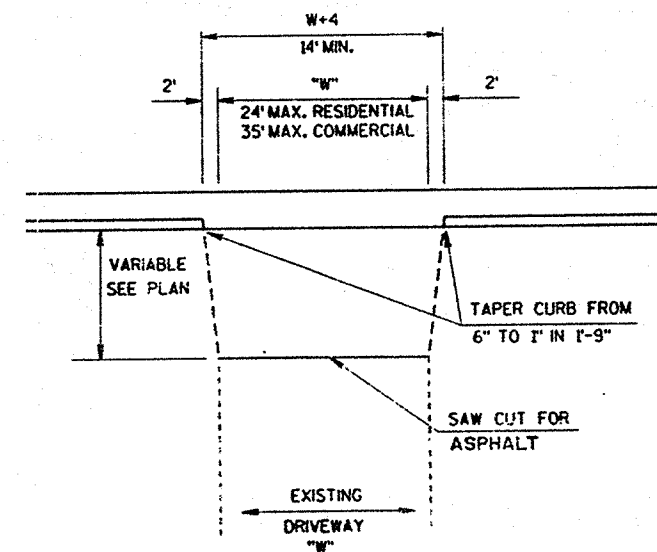


DETAIL FOR EXCAVATION BELOW SUBGRADE

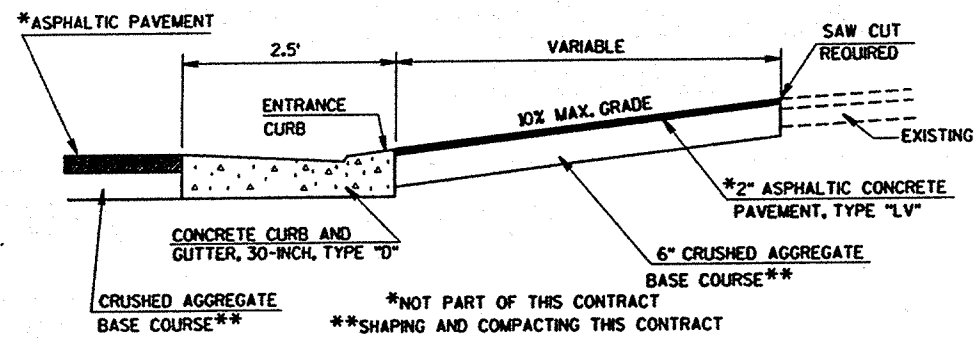
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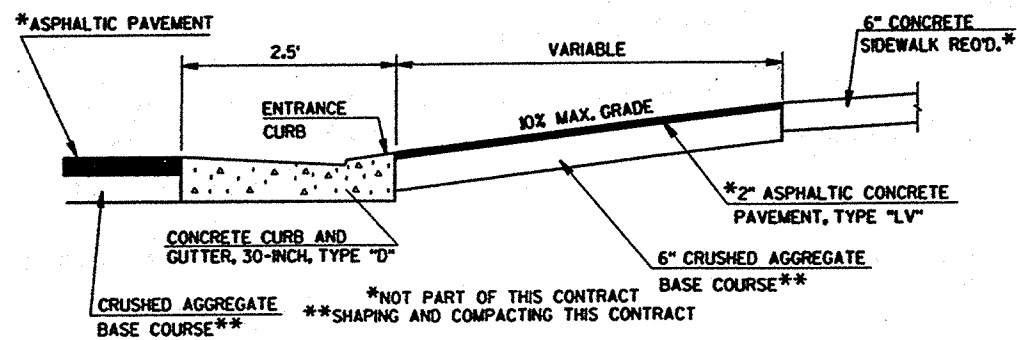
TYPICAL DRIVEWAY PROFILE



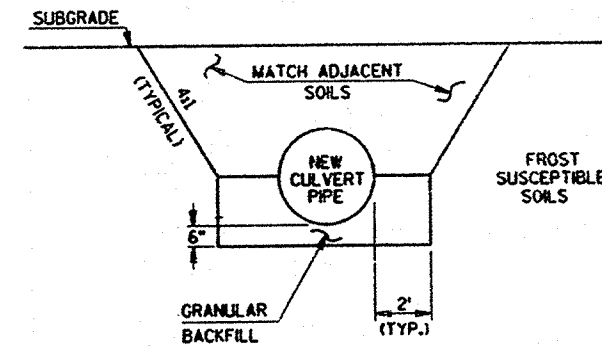
CURB CUT DETAIL FOR DRIVEWAYS



TYPICAL LONGITUDINAL SECTION AT ASPHALTIC SURFACE PRIVATE ENTRANCES WITHOUT SIDEWALK



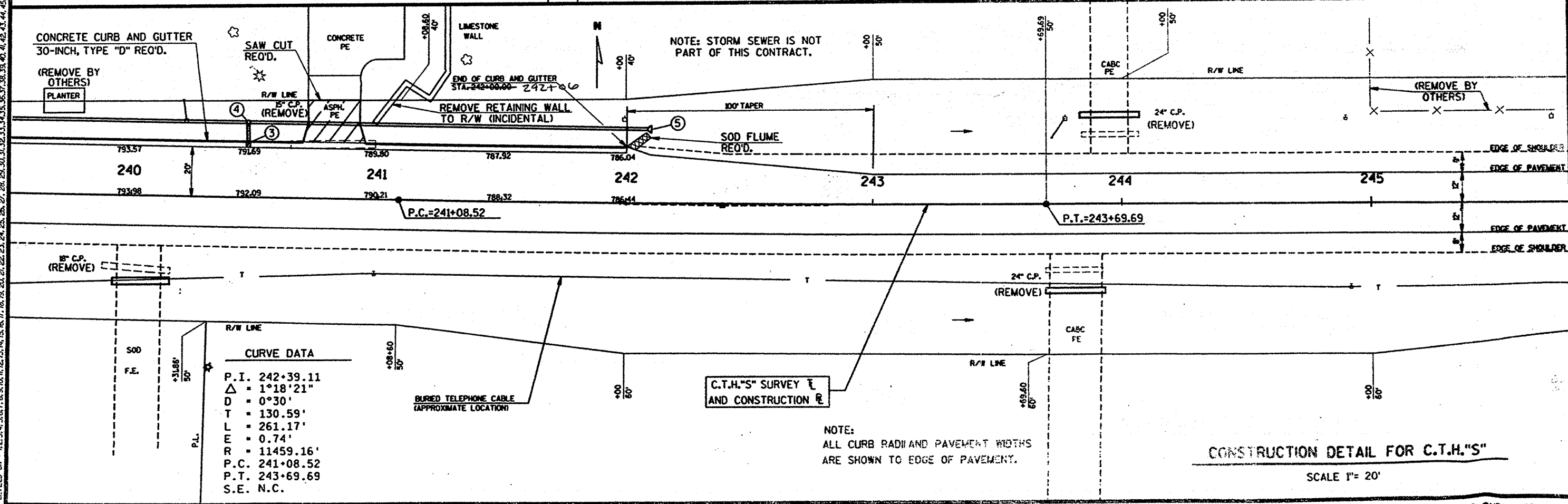
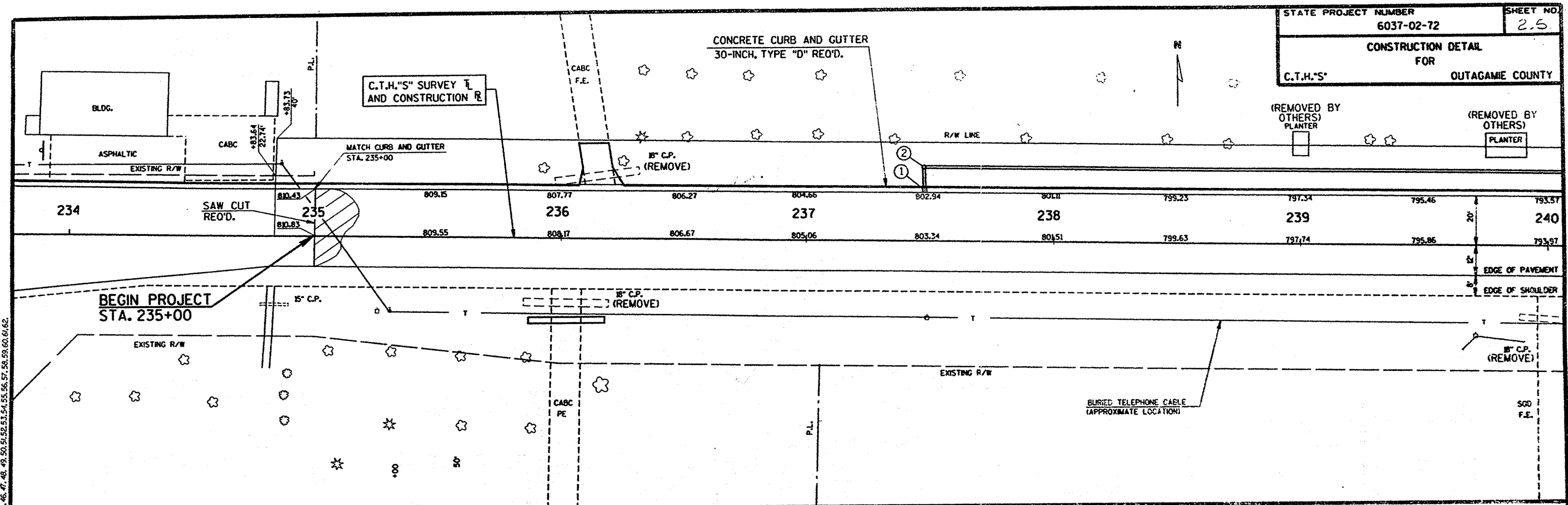
TYPICAL LONGITUDINAL SECTION AT ASPHALTIC SURFACE PRIVATE ENTRANCES WITH SIDEWALK



DETAIL FOR CULVERT INSTALLATION

293+95, 302+50, 310+00, 320+00, 324+75

LEVELS ON - 1.2, 3.4, 5.6, 7.8, 9.0, 11.2, 13.4, 15.6, 17.8, 19.0, 21.2, 23.4, 25.6, 27.8, 29.0, 31.2, 33.4, 35.6, 37.8, 39.0, 41.2, 43.4, 45.6, 47.8, 49.0, 51.2, 53.4, 55.6, 57.8, 59.0, 61.2, 63.4, 65.6, 67.8, 69.0, 71.2, 73.4, 75.6, 77.8, 79.0, 81.2, 83.4, 85.6, 87.8, 89.0, 91.2, 93.4, 95.6, 97.8, 99.0, 101.2, 103.4, 105.6, 107.8, 109.0, 111.2, 113.4, 115.6, 117.8, 119.0, 121.2, 123.4, 125.6, 127.8, 129.0, 131.2, 133.4, 135.6, 137.8, 139.0, 141.2, 143.4, 145.6, 147.8, 149.0, 151.2, 153.4, 155.6, 157.8, 159.0, 161.2, 163.4, 165.6, 167.8, 169.0, 171.2, 173.4, 175.6, 177.8, 179.0, 181.2, 183.4, 185.6, 187.8, 189.0, 191.2, 193.4, 195.6, 197.8, 199.0, 201.2, 203.4, 205.6, 207.8, 209.0, 211.2, 213.4, 215.6, 217.8, 219.0, 221.2, 223.4, 225.6, 227.8, 229.0, 231.2, 233.4, 235.6, 237.8, 239.0, 241.2, 243.4, 245.6, 247.8, 249.0, 251.2, 253.4, 255.6, 257.8, 259.0, 261.2, 263.4, 265.6, 267.8, 269.0, 271.2, 273.4, 275.6, 277.8, 279.0, 281.2, 283.4, 285.6, 287.8, 289.0, 291.2, 293.4, 295.6, 297.8, 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585.6, 587.8, 589.0, 591.2, 593.4, 595.6, 597.8, 599.0, 601.2, 603.4, 605.6, 607.8, 609.0, 611.2, 613.4, 615.6, 617.8, 619.0, 621.2, 623.4, 625.6, 627.8, 629.0, 631.2, 633.4, 635.6, 637.8, 639.0, 641.2, 643.4, 645.6, 647.8, 649.0, 651.2, 653.4, 655.6, 657.8, 659.0, 661.2, 663.4, 665.6, 667.8, 669.0, 671.2, 673.4, 675.6, 677.8, 679.0, 681.2, 683.4, 685.6, 687.8, 689.0, 691.2, 693.4, 695.6, 697.8, 699.0, 701.2, 703.4, 705.6, 707.8, 709.0, 711.2, 713.4, 715.6, 717.8, 719.0, 721.2, 723.4, 725.6, 727.8, 729.0, 731.2, 733.4, 735.6, 737.8, 739.0, 741.2, 743.4, 745.6, 747.8, 749.0, 751.2, 753.4, 755.6, 757.8, 759.0, 761.2, 763.4, 765.6, 767.8, 769.0, 771.2, 773.4, 775.6, 777.8, 779.0, 781.2, 783.4, 785.6, 787.8, 789.0, 791.2, 793.4, 795.6, 797.8, 799.0, 801.2, 803.4, 805.6, 807.8, 809.0, 811.2, 813.4, 815.6, 817.8, 819.0, 821.2, 823.4, 825.6, 827.8, 829.0, 831.2, 833.4, 835.6, 837.8, 839.0, 841.2, 843.4, 845.6, 847.8, 849.0, 851.2, 853.4, 855.6, 857.8, 859.0, 861.2, 863.4, 865.6, 867.8, 869.0, 871.2, 873.4, 875.6, 877.8, 879.0, 881.2, 883.4, 885.6, 887.8, 889.0, 891.2, 893.4, 895.6, 897.8, 899.0, 901.2, 903.4, 905.6, 907.8, 909.0, 911.2, 913.4, 915.6, 917.8, 919.0, 921.2, 923.4, 925.6, 927.8, 929.0, 931.2, 933.4, 935.6, 937.8, 939.0, 941.2, 943.4, 945.6, 947.8, 949.0, 951.2, 953.4, 955.6, 957.8, 959.0, 961.2, 963.4, 965.6, 967.8, 969.0, 971.2, 973.4, 975.6, 977.8, 979.0, 981.2, 983.4, 985.6, 987.8, 989.0, 991.2, 993.4, 995.6, 997.8, 999.0, 1001.2, 1003.4, 1005.6, 1007.8, 1009.0, 1011.2, 1013.4, 1015.6, 1017.8, 1019.0, 1021.2, 1023.4, 1025.6, 1027.8, 1029.0, 1031.2, 1033.4, 1035.6, 1037.8, 1039.0, 1041.2, 1043.4, 1045.6, 1047.8, 1049.0, 1051.2, 1053.4, 1055.6, 1057.8, 1059.0, 1061.2, 1063.4, 1065.6, 1067.8, 1069.0, 1071.2, 1073.4, 1075.6, 1077.8, 1079.0, 1081.2, 1083.4, 1085.6, 1087.8, 1089.0, 1091.2, 1093.4, 1095.6, 1097.8, 1099.0, 1101.2, 1103.4, 1105.6, 1107.8, 1109.0, 1111.2, 1113.4, 1115.6, 1117.8, 1119.0, 1121.2, 1123.4, 1125.6, 1127.8, 1129.0, 1131.2, 1133.4, 1135.6, 1137.8, 1139.0, 1141.2, 1143.4, 1145.6, 1147.8, 1149.0, 1151.2, 1153.4, 1155.6, 1157.8, 1159.0, 1161.2, 1163.4, 1165.6, 1167.8, 1169.0, 1171.2, 1173.4, 1175.6, 1177.8, 1179.0, 1181.2, 1183.4, 1185.6, 1187.8, 1189.0, 1191.2, 1193.4, 1195.6, 1197.8, 1199.0, 1201.2, 1203.4, 1205.6, 1207.8, 1209.0, 1211.2, 1213.4, 1215.6, 1217.8, 1219.0, 1221.2, 1223.4, 1225.6, 1227.8, 1229.0, 1231.2, 1233.4, 1235.6, 1237.8, 1239.0, 1241.2, 1243.4, 1245.6, 1247.8, 1249.0, 1251.2, 1253.4, 1255.6, 1257.8, 1259.0, 1261.2, 1263.4, 1265.6, 1267.8, 1269.0, 1271.2, 1273.4, 1275.6, 1277.8, 1279.0, 1281.2, 1283.4, 1285.6, 1287.8, 1289.0, 1291.2, 1293.4, 1295.6, 1297.8, 1299.0, 1301.2, 1303.4, 1305.6, 1307.8, 1309.0, 1311.2, 1313.4, 1315.6, 1317.8, 1319.0, 1321.2, 1323.4, 1325.6, 1327.8, 1329.0, 1331.2, 1333.4, 1335.6, 1337.8, 1339.0, 1341.2, 1343.4, 1345.6, 1347.8, 1349.0, 1351.2, 1353.4, 1355.6, 1357.8, 1359.0, 1361.2, 1363.4, 1365.6, 1367.8, 1369.0, 1371.2, 1373.4, 1375.6, 1377.8, 1379.0, 1381.2, 1383.4, 1385.6, 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2387.8, 2389.0, 2391.2, 2393.4, 2395.6, 2397.8, 2399.0, 2401.2, 2403.4, 2405.6, 2407.8, 2409.0, 2411.2, 2413.4, 2415.6, 2417.8, 2419.0, 2421.2, 2423.4, 2425.6, 2427.8, 2429.0, 2431.2, 2433.4, 2435.6, 2437.8, 2439.0, 2441.2, 2443.4, 2445.6, 2447.8, 2449.0, 2451.2, 2453.4, 2455.6, 2457.8, 2459.0, 2461.2, 2463.4, 2465.6, 2467.8, 2469.0, 2471.2, 2473.4, 2475.6, 2477.8, 2479.0, 2481.2, 2483.4, 2485.6, 2487.8, 2489.0, 2491.2, 2493.4, 2495.6, 2497.8, 2499.0, 2501.2, 2503.4, 2505.6, 2507.8, 2509.0, 2511.2, 2513.4, 2515.6, 2517.8, 2519.0, 2521.2, 2523.4, 2525.6, 2527.8, 2529.0, 2531.2, 2533.4, 2535.6, 2537.8, 2539.0, 2541.2, 2543.4, 2545.6, 2547.8, 2549.0, 2551.2, 2553.4, 2555.6, 2557.8, 2559.0, 2561.2, 2563.4, 2565.6, 2567.8, 2569.0, 2571.2, 2573.4, 2575.6, 2577.8, 2579.0, 2581.2, 2583.4, 2585.6, 2587.8, 2589.0, 2591.2, 2593.4, 2595.6, 2597.8, 2599.0, 2601.2, 2603.4, 2605.6, 2607.8, 2609.0, 2611.2, 2613.4, 2615.6, 2617.8, 2619.0, 2621.2, 2623.4, 2625.6, 2627.8, 2629.0, 2631.2, 2633.4, 2635.6, 2637.8, 2639.0, 2641.2, 2643.4, 2645.6, 2647.8, 2649.0, 2651.2, 2653.4, 2655.6, 2657.8, 2659.0, 2661.2, 2663.4, 2665.6, 2667.8, 2669.0, 2671.2, 2673.4, 2675.6, 2677.8, 2679.0, 2681.2, 2683.4, 2685.6, 2687.8, 2689.0, 2691.2, 2693.4, 2695.6, 2697.8, 2699.0, 2701.2, 2703.4, 2705.6, 2707.8, 2709.0, 2711.2, 2713.4, 2715.6, 2717.8, 2719.0, 2721.2, 2723.4, 2725.6, 2727.8, 2729.0, 2731.2, 2733.4, 2735.6, 2737.8, 2739.0, 2741.2, 2743.4, 2745.6, 2747.8, 2749.0, 2751.2, 2753.4, 2755.6, 2757.8, 2759.0, 2761.2, 2763.4, 2765.6, 2767.8, 2769.0, 2771.2, 2773.4, 2775.6, 2777.8, 2779.0, 2781.2, 2783.4, 2785.6, 2787.8, 2789.0, 2791.2, 2793.4, 2795.6, 2797.8, 2799.0, 2801.2, 2803.4, 2805.6, 2807.8, 2809.0, 2811.2, 2813.4, 2815.6, 2817.8, 2819.0, 2821.2, 2823.4, 2825.6, 2827.8, 2829.0, 2831.2, 2833.4, 2835.6, 2837.8, 2839.0, 2841.2, 2843.4, 2845.6, 2847.8, 2849.0, 2851.2, 2853.4, 2855.6, 2857.8, 2859.0, 2861.2, 2863.4, 2865.6, 2867.8, 2869.0, 2871.2, 2873.4, 2875.6, 2877.8, 2879.0, 2881.2, 2883.4, 2885.6, 2887.8, 2889.0, 2891.2, 2893.4, 2895.6, 2897.8, 2899.0, 2901.2, 2903.4,



CURVE DATA

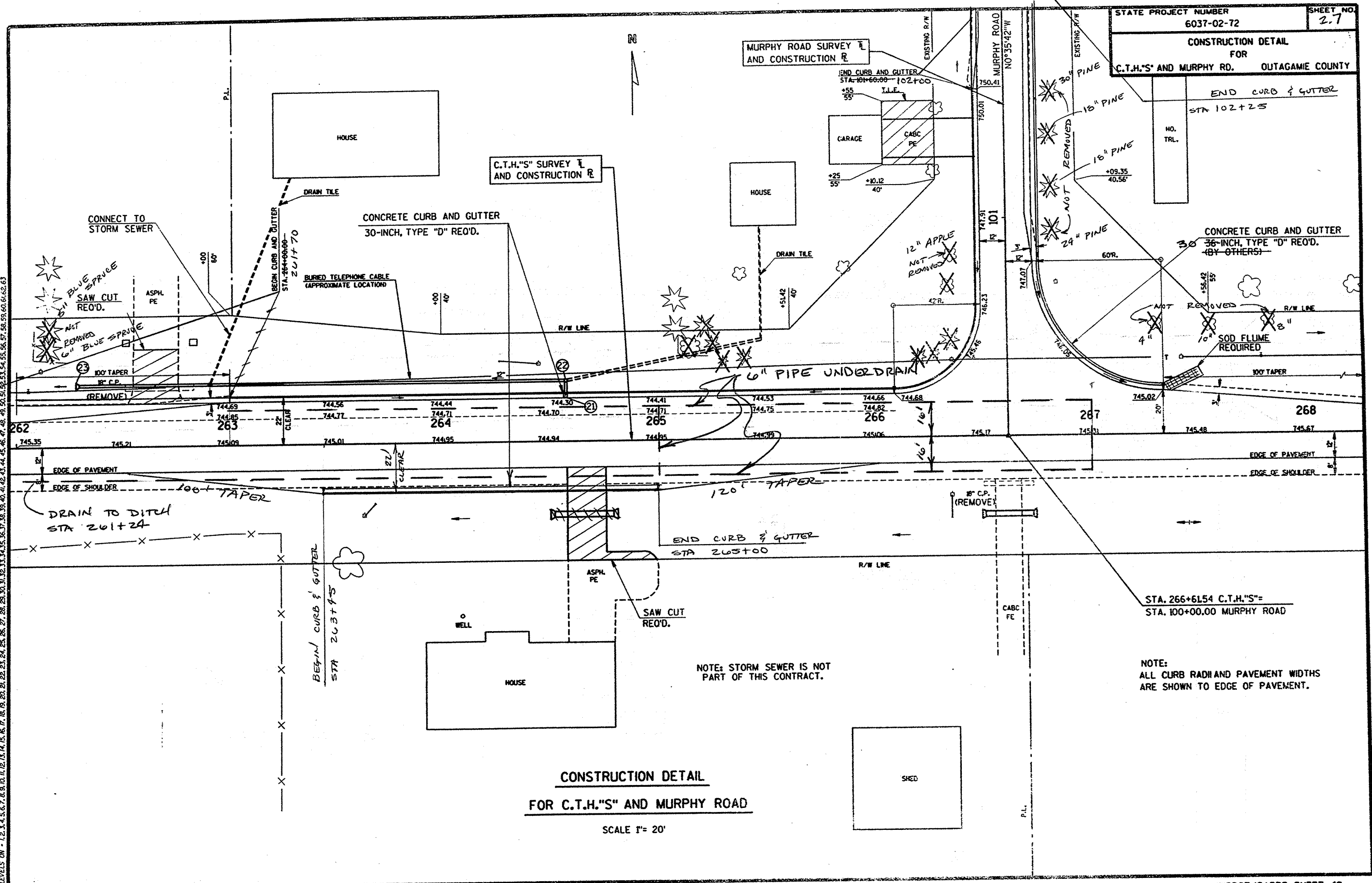
P.I.	242+39.11
Δ	1°18'21"
D	0°30'
T	130.59'
L	261.17'
E	0.74'
R	11459.16'
P.C.	241+08.52
P.T.	243+69.69
S.E.	N.C.

NOTE:
 ALL CURB RADII AND PAVEMENT WIDTHS
 ARE SHOWN TO EDGE OF PAVEMENT.

CONSTRUCTION DETAIL FOR C.T.H."S"
 SCALE 1"= 20'



LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63



STATE PROJECT NUMBER
6037-02-72

SHEET NO.
2.7

CONSTRUCTION DETAIL
FOR
C.T.H.'S' AND MURPHY RD. OUTAGAMIE COUNTY

END CURB & GUTTER
STA 102+25

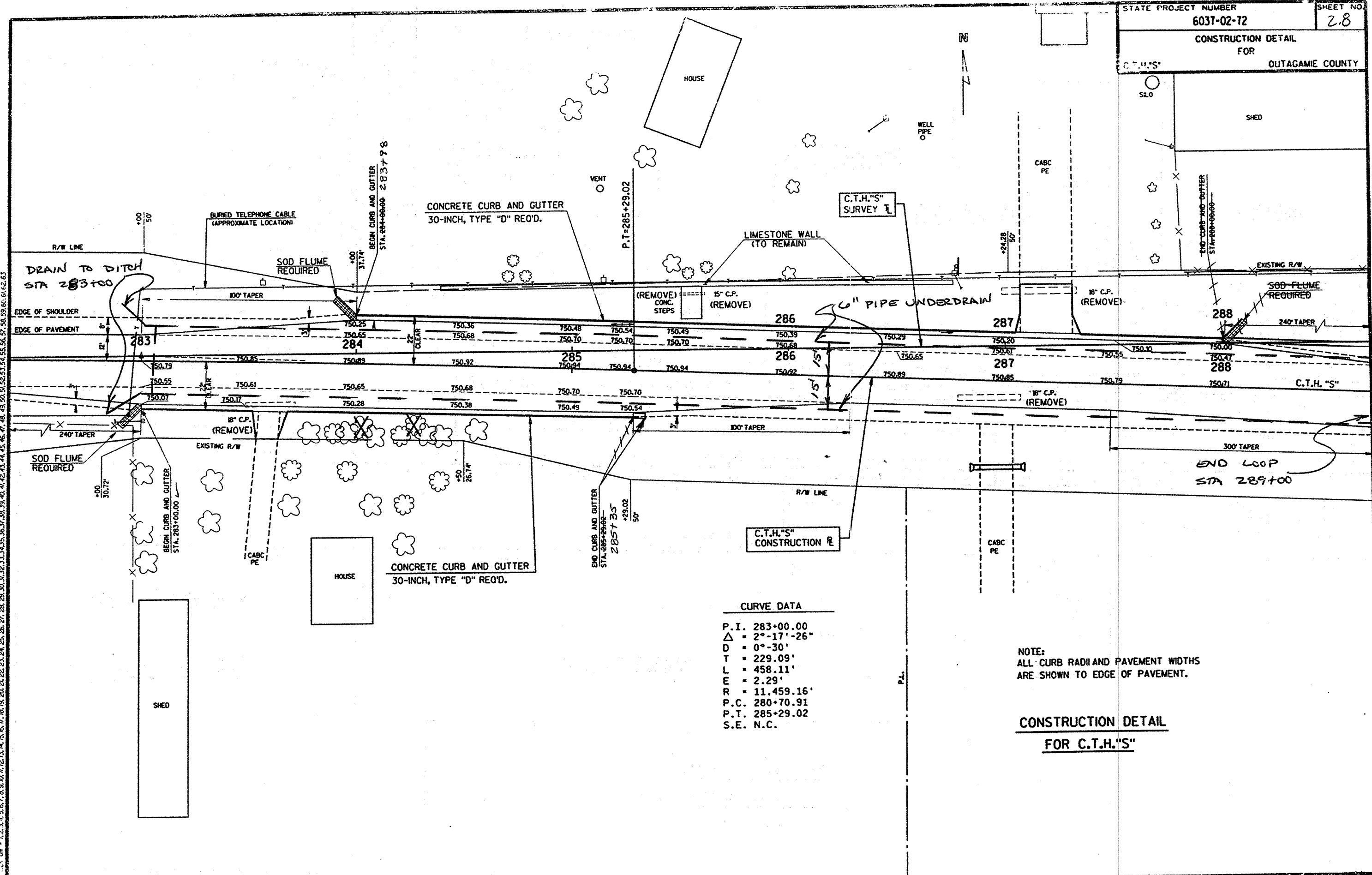
CONCRETE CURB AND GUTTER
36-INCH, TYPE "D" REQ'D.
(BY OTHERS)

STA. 266+61.54 C.T.H.'S'=
STA. 100+00.00 MURPHY ROAD

CONSTRUCTION DETAIL
FOR C.T.H.'S' AND MURPHY ROAD

SCALE 1" = 20'

15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

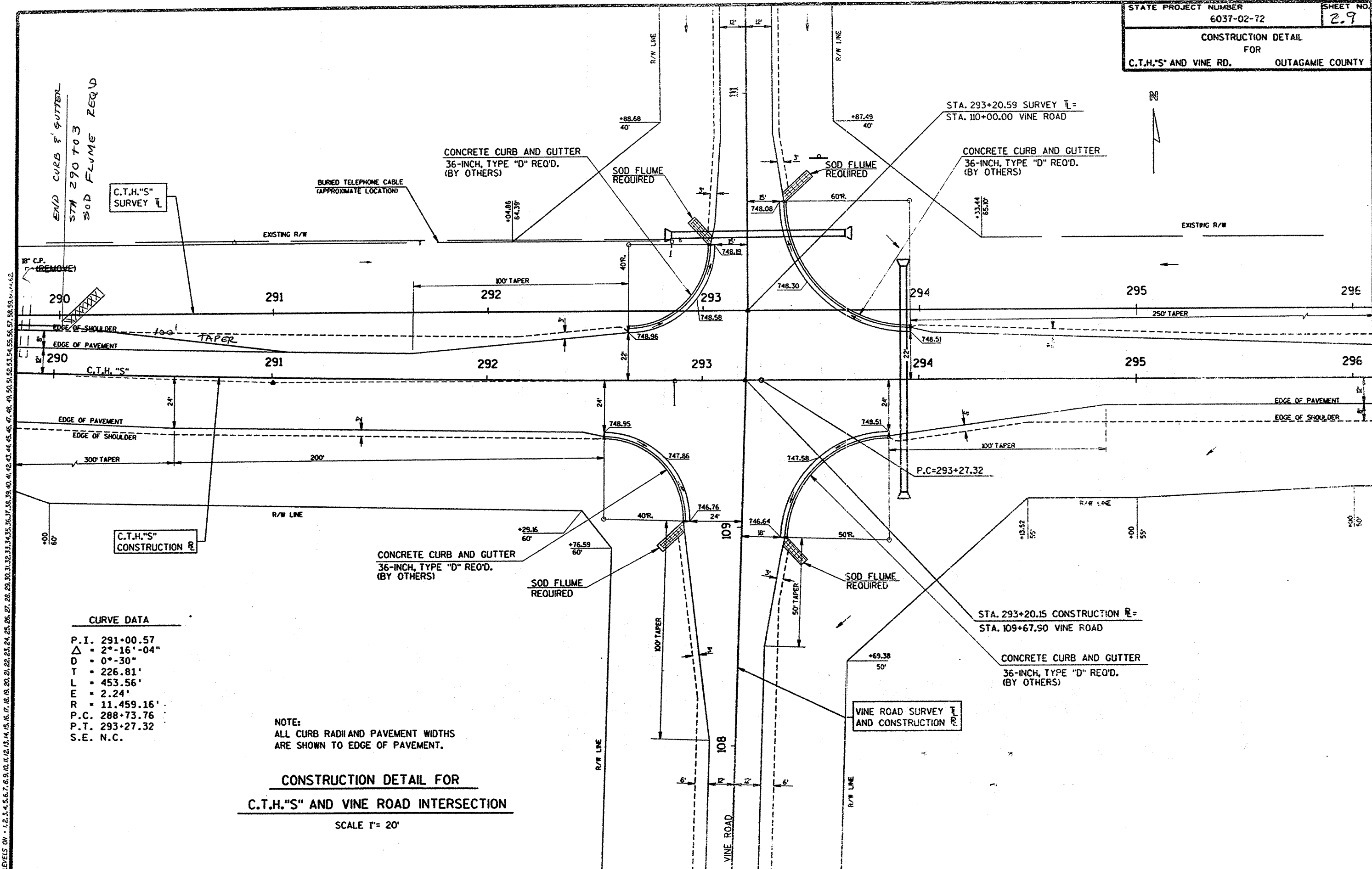


CURVE DATA

P.I.	283+00.00
Δ	2°-17'-26"
D	0°-30'
T	229.09'
L	458.11'
E	2.29'
R	11,459.16'
P.C.	280+70.91
P.T.	285+29.02
S.E.	N.C.

NOTE:
ALL CURB RADI AND PAVEMENT WIDTHS
ARE SHOWN TO EDGE OF PAVEMENT.

CONSTRUCTION DETAIL
FOR C.T.H."S"



DATE 04/06/93

ESTIMATE OF QUANTITIES

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6037-02-72 QUANTITY
20101	CLEARING	STA.	7.00	7.00 ✓
20102	CLEARING	I.D.	332.00	332.00 229.0
20104	GRUBBING	STA.	7.00	7.00 ✓
20105	GRUBBING	I.D.	332.00	332.00 229.0
20301	REMOVING OLD CULVERT, STATION 270+00	L.S.	1.00	1.00 ✓

20302	REMOVING OLD CULVERT, STATION 289+90	L.S.	1.00	1.00 ✓
20303	REMOVING OLD CULVERT, STATION 302+50	L.S.	1.00	1.00 ✓
20304	REMOVING OLD CULVERT, STATION 322+50	L.S.	1.00	1.00 ✓
20405	REMOVING CURB AND GUTTER	L.F.	24.00	24.00 ✓
20503	UNCLASSIFIED EXCAVATION	C.Y.	44,893.00	44,893.00 56,072

20801	BORROW EXCAVATION	C.Y.	1,731.00	1,731.00 1,864
52003	CULVERT PIPE, CLASS III, 18-INCH	L.F.	508.00	508.00 419
52005	CULVERT PIPE, CLASS III, 24-INCH	L.F.	302.00	302.00 332
52007	CULVERT PIPE, CLASS III, 30-INCH	L.F.	256.00	256.00 282
52009	CULVERT PIPE, CLASS III, 36-INCH	L.F.	102.00	102.00 ✓

52061	APRON ENDWALLS FOR CULVERT PIPE, 18-INCH	EACH	32.00	32.00 24
52063	APRON ENDWALLS FOR CULVERT PIPE, 24-INCH	EACH	16.00	16.00 14
52065	APRON ENDWALLS FOR CULVERT PIPE, 30-INCH	EACH	10.00	10.00 ✓
52067	APRON ENDWALLS FOR CULVERT PIPE, 36-INCH	EACH	2.00	2.00 ✓
52138	CORRUGATED STEEL PIPE ARCH, 28x20-INCH	L.F.	62.00	62.00 ✓

52141	CORRUGATED STEEL PIPE ARCH, 49x33-INCH	L.F.	60.00	60.00 ✓
52164	STEEL APRON ENDWALLS FOR PIPE ARCH, 28x20-INCH	EACH	2.00	2.00 ✓
52167	STEEL APRON ENDWALLS FOR PIPE ARCH, 49x33-INCH	EACH	2.00	2.00 ✓
60133	CONCRETE CURB AND GUTTER, 30-INCH, TYPE D	L.F.	7,075.00	7,075.00 7,595

Sheet 3

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6037-02-72 QUANTITY
60604	MEDIUM RANDOM RIPRAP	C.Y.	30.00	30.00 70.1
62505	SALVAGED TOPSOIL	S.Y.	66,960.00	66,960.00 71,224
62702	MULCHING	S.Y.	44,352.00	44,352.00 67,399
62803	EROSION MAT, DELIVERED	S.Y.	4,300.00	4,300.00 2,823
62804	EROSION MAT, INSTALLED	S.Y.	4,300.00	4,300.00 2,823
62815	SILT FENCE, DELIVERED	L.F.	900.00	900.00 338
62816	SILT FENCE, INSTALLED	L.F.	900.00	900.00 338
62817	SILT FENCE MAINTENANCE	L.F.	450.00	450.00 0
62905	FERTILIZER, TYPE B	CWT.	42.50	42.50 89.34
63002	SEEDING	LB.	598.00	598.00 2,375
63101	SODDING	S.Y.	16,735.00	16,735.00 3,437.5
64201	FIELD OFFICE, TYPE A	L.S.	1.00	1.00 ✓
64301	TRAFFIC CONTROL	L.S.	1.00	1.00 ✓
64601	SAVING EXISTING PAVEMENT	L.F.	477.00	477.00 379
90001	SHAPING AND COMPACTING BREAKER RUN STONE	TON	21,470.00	21,470.00 13,974.75
90002	SHAPING AND COMPACTING CRUSHED AGGREGATE BASE COURSE	TON	35,460.00	35,460.00 44,071.45
90003	ALUMINUM BOX CULVERT, STATION 270+00	L.S.	1.00	1.00 ✓

CHANGE ORDER No. 1

61201 PIPE UNDERDRAIN, 6-INCH L.F. 2,300

64505 GEOTEXTILE FABRIC, TYPE R S.Y. 17,291.11

90359 BREAKER RUN STONE TON 15,132.62

CLEARING AND GRUBBING

STATION - STATION	CLEARING L.D.	STATION	GRUBBING L.D.	STATION
235+00 - 246+00	0	---	0	---
246+00 - 267+00	212	---	212	---
267+00 - 273+00	0	---	0	---
273+00 - 329+00	120	---	120	---
329+00 - 336+00	0	7	0	7
336+00 - 345+38	0	---	0	---
TOTALS	332	7	332	7

SHAPING AND COMPACTING BREAKER RUN STONE

STATION - STATION	LOCATION	QUANTITY TONS
235+00 - 331+65	C.T.H. "S"	18,000
332+21 - 345+38	C.T.H. "S"	3,000
109+68 - 107+00	VINE ROAD	470
TOTAL		21,470
NOTE: TOTAL INCLUDES 1,270 TONS NON-PARTICIPATING AND 20,200 TONS PARTICIPATING.		

SILT FENCE, DELIVERED, INSTALLED, AND MAINTENANCE

STATION	LOCATION	QUANTITY DELIVERED AND INSTALLED L.F.	QUANTITY MAINTENANCE L.F.
259+00	C.T.H. "S"	120	60
270+00	C.T.H. "S"	100	50
107+00	VINE ROAD	60	30
302+00 - 303+50	C.T.H. "S"	150	70
309+50 - 310+50	C.T.H. "S"	100	50
332+00	C.T.H. "S"	150	80
UNDISTRIBUTED		210	110
TOTALS		900	450

SAWING EXISTING PAVEMENT

STATION	LOCATION	QUANTITY L.F.
235+00	C.T.H. "S"	32
240+80 LT.	C.T.H. "S"	20
253+65 LT.	C.T.H. "S"	20
93+00	CONNERING COURT	22
90+70 LT.	CONNERING COURT	15
90+75 RT.	CONNERING COURT	40
255+80 LT.	C.T.H. "S"	60
262+65 LT.	C.T.H. "S"	20
102+50	MURPHY ROAD	22
279+65 LT.	C.T.H. "S"	20
107+00	VINE ROAD	22
112+50	VINE ROAD	22
318+40 LT.	C.T.H. "S"	12
120+45	OAK LANE	38
336+20 LT.	C.T.H. "S"	14
130+65	MALLARD LANE	24
342+75 LT.	C.T.H. "S"	16
343+50 LT.	C.T.H. "S"	20
345+38	C.T.H. "S"	38
TOTAL		477

REMOVING CURB AND GUTTER

STATION	LOCATION	QUANTITY L.F.
120+33 - 120+45	OAK LANE	24

CONCRETE CURB AND GUTTER, 30-INCH, TYPE "D"

STATION - STATION	LOCATION	QUANTITY L.F.
235+00 - 242+00 LT.	C.T.H. "S"	700
248+20 - 254+60 LT.	C.T.H. "S"	660
253+50 - 258+80 RT.	C.T.H. "S"	530
254+90 - 258+45 LT.	C.T.H. "S"	370
263+00 - 266+50 LT.	C.T.H. "S"	470
283+00 - 285+30 RT.	C.T.H. "S"	230
284+00 - 288+00 LT.	C.T.H. "S"	400
321+23 - 321+66 LT.	C.T.H. "S"	80
322+00 - 331+56 LT.	C.T.H. "S"	1,000
332+23 - 339+41 LT.	C.T.H. "S"	740
332+23 - 345+31 RT.	C.T.H. "S"	1,310
339+74 - 345+38 LT.	C.T.H. "S"	585
TOTAL		7,075

EROSION MAT DELIVERED AND INSTALLED

STATION - STATION	LOCATION	QUANTITY S.Y.
242+50 - 247+00 LT.	C.T.H. "S"	400
240+00 - 253+00 RT.	C.T.H. "S"	1,160
260+00 - 264+00 RT.	C.T.H. "S"	540
260+00 - 262+00 LT.	C.T.H. "S"	270
107+00 - 109+50 RT.	VINE ROAD	340
317+00 - 319+50 LT.	C.T.H. "S"	340
320+00 - 325+00 RT.	C.T.H. "S"	670
UNDISTRIBUTED	C.T.H. "S"	580
TOTAL		4,300

SHAPING AND COMPACTING CRUSHED AGGREGATE BASE COURSE

LOCATION	QUANTITY TONS
C.T.H. "S"	27,900
ROADWAY	1,160
SHOULDERS	4,300
CONNERING COURT	465
MURPHY ROAD	395
VINE ROAD (NORTH)	435
VINE ROAD (SOUTH)	755
OAK LANE	160
MALLARD LANE	165
P.E.'s & F.E.'s	885
TOTAL	35,460
NOTE: TOTAL INCLUDES 2,460 TONS NON-PARTICIPATING AND 33,000 TONS PARTICIPATING.	

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62

FILE NAME: HDGN

STATE PROJECT NUMBER	6037-02-72	SHEET NO.	3B
MISCELLANEOUS QUANTITIES			
FOR			
C.T.H. "S"		OUTAGAMIE COUNTY	

REMOVING CULVERTS

STATION	TYPE	SIZE	LUMP SUM
270+00	CONCRETE BOX CULVERT	3.75'x18'x32'	1
289+90	C.M.P.	12"x42"	1
302+50	C.M.P. WITH CONC. ENDWALLS	2-18"x46'	1
322+50	C.M.P.	2-30"x46'	1

CROSS DRAINS

STATION	LOCATION	DIAMETER (IN.)	LENGTH (FEET)	TYPE	CLASS	THICKNESS (IN.) STEEL ALUMINUM	ELEVATION INLET OUTLET	APRON ENDWALLS	*SOD S.Y.	REMARKS
110+35	VINE ROAD	24	82	C.P.	III	0.064 0.075	743.00 741.00	2	20	
293+95	C.T.H. "S"	36	102	C.P.	III	0.079 0.105	740.70 739.50	2	20	
302+50	C.T.H. "S"	28x20	62	C.S.P.A.	---	0.064	741.60 741.00	2	20	
310+00	C.T.H. "S"	49x33	60	C.S.P.A.	---	0.109	738.00 737.50	2	--	
320+00	C.T.H. "S"	30	78	C.P.	III	0.079 0.075	733.00 732.50	2	20	SKEW 35° R.H.F.
324+75	C.T.H. "S"	30	100	C.P.	III	0.079 0.075	733.00 731.50	2	20	

*QUANTITY INCLUDED ELSEWHERE

PRIVATE ENTRANCE PIPES

STATION	LOCATION	DIAMETER (IN.)	LENGTH (FEET)	TYPE	CLASS	THICKNESS (IN.) STEEL ALUMINUM	APRON ENDWALLS	SOD* S.Y.
236+00	C.T.H. "S" RT.	18	24	C.P.	III	0.064 0.060	2	10
240+05	C.T.H. "S" RT.	18	28	C.P.	III	0.064 0.060	2	10
243+88	C.T.H. "S" RT.	24	24	C.P.	III	0.064 0.075	2	10
243+91	C.T.H. "S" LT.	24	26	C.P.	III	0.064 0.075	2	10
250+75	C.T.H. "S" RT.	24	26	C.P.	III	0.064 0.075	2	10
251+40	C.T.H. "S" RT.	30	24	C.P.	III	0.079 0.075	2	10
252+84	C.T.H. "S" RT.	30	24	C.P.	III	0.079 0.075	2	10
261+75	C.T.H. "S" LT.	24	30	C.P.	III	0.064 0.075	2	10
264+67	C.T.H. "S" RT.	18	42	C.P.	III	0.064 0.060	2	10
266+61	C.T.H. "S" RT.	18	34	C.P.	III	0.064 0.060	2	10
273+10	C.T.H. "S" RT.	24	40	C.P.	III	0.064 0.075	2	10
273+55	C.T.H. "S" RT.	24	40	C.P.	III	0.064 0.075	2	10
278+20	C.T.H. "S" RT.	18	40	C.P.	III	0.064 0.060	2	10
278+22	C.T.H. "S" LT.	18	32	C.P.	III	0.064 0.060	2	10
279+62	C.T.H. "S" RT.	18	32	C.P.	III	0.064 0.060	2	10
279+65	C.T.H. "S" LT.	18	34	C.P.	III	0.064 0.060	2	10
287+00	C.T.H. "S" RT.	18	28	C.P.	III	0.064 0.060	2	10
289+50	C.T.H. "S" LT.	18	32	C.P.	III	0.064 0.060	2	10
299+25	C.T.H. "S" LT.	18	30	C.P.	III	0.064 0.060	2	10
299+38	C.T.H. "S" RT.	18	32	C.P.	III	0.064 0.060	2	10
306+15	C.T.H. "S" LT.	18	32	C.P.	III	0.064 0.060	2	10
306+75	C.T.H. "S" RT.	18	36	C.P.	III	0.064 0.060	2	10
318+40	C.T.H. "S" LT.	24	34	C.P.	III	0.064 0.075	2	10
321+35	C.T.H. "S" RT.	30	30	C.P.	III	0.079 0.075	2	10
92+18	GONNERING CT.	18	28	C.P.	III	0.064 0.060	2	10
92+60	GONNERING CT.	18	24	C.P.	III	0.064 0.060	2	10

*QUANTITY INCLUDED ELSEWHERE

ALUMINUM BOX CULVERT

STATION	LOCATION	SIZE	LUMP SUM
270+00	C.T.H. "S"	14'-10"x4'-10"x66'	1

LANDSCAPING ITEMS

LOCATION	SALVAGED TOPSOIL S.Y.	FERTILIZER TYPE "B" CWT.	SEED NO. 10 LBS.	MULCHING S.Y.	SODDING S.Y.
235+00 - 240+00 LT.	740	0.5	10	740	
240+00 - 242+00 LT.	420	0.3			420
235+00 - 253+50 RT.	4,040	2.6	55	4,040	
242+00 - 248+00 LT.	1,030	0.7	14	1,030	
248+00 - 258+00 LT.	1,700	1.0			1,700
258+00 - 263+00 LT.	1,110	0.7	15	1,110	
253+50 - 259+00 RT.	1,000	0.6			1,000
259+00 - 283+00 RT.	6,970	4.4	9	697	
263+00 - 267+00 LT.	740	0.5			740
267+00 - 284+00 LT.	5,720	3.6	77	5,720	
283+00 - 285+50 RT.	780	0.5			780
285+50 - 345+38 RT.	14,900	9.5	201	14,900	
284+00 - 288+00 LT.	800	0.5			800
288+00 - 321+20 LT.	12,590	6.0	170	12,590	
321+20 - 345+38 LT.	10,590	6.7			10,590
GONNERING CT.	700	0.4	9	700	
MURPHY ROAD	805	0.5	11	805	
VINE ROAD	2,020	1.3	27	2,020	
OAK LANE	90	0.1			90
MALLARD LANE	215	0.1			215
CROSS CULVERTS					100
P.E.'s & F.E.'s					260
SOD FLUMES					40
TOTALS	66,960	42.5	558	44,352	16,735

EARTHWORK SUMMARY

STATION - STATION	LOCATION	UNCLASSIFIED EXCAVATION C.Y.	FILL C.Y.	BORROW C.Y.
235+00 - 239+10	C.T.H. "S"	1,663	86	
239+10 - 246+00	C.T.H. "S"	1,318	942	
246+00 - 277+90	C.T.H. "S"	14,293	10,208	
277+90 - 293+20	C.T.H. "S"	6,643	4,745	
293+20 - 293+40	C.T.H. "S"	240	1,272	
293+40 - 310+70	C.T.H. "S"	7,047	5,034	
310+70 - 331+56	C.T.H. "S"	8,172	5,837	
332+24 - 345+38	C.T.H. "S"	5,517	5,177	1,731
TOTALS		44,893	33,301	1,731

NOTE: TOTAL INCLUDES 1,725 C.Y. UNCLASSIFIED EXCAVATION NON-PARTICIPATING
AND 43,158 C.Y. UNCLASSIFIED EXCAVATION PARTICIPATING.

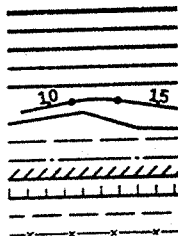
MEDIUM RANGLER PIPE

STATION	LOCATION	QUANTITY C.Y.
270+00	C.T.H. "S" CROSS CULVERT	20
310+00	C.T.H. "S" CROSS CULVERT	10
TOTAL		30

Conventional Signs and Abbreviations

LINES & SYMBOLS

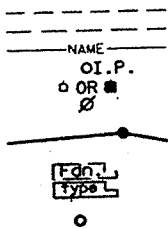
STATE
COUNTY
TOWNSHIP & RANGE
QUARTER
SIXTEENTH
NEW CENTERLINE
NEW R/W
OLD R/W
PROPERTY LINE
CORPORATE LIMITS
NO ACCESS (BY ACQUISITION)
LIMITED HIGHWAY EASEMENT
FENCE
BEAM GUARD



SECTION
CORNER
NO ACCESS
(BY STATUTORY
AUTHORITY)



LOT & TIE
SLOPE INTERCEPTS
UNDERGROUND UTILITIES
IRON PIN/PIPE
POWER POLE
TELEPHONE POLE
TELEPHONE PEDESTAL
MONUMENTED R/W POINT
FOUNDATION OR RUINS
BUILDING
SILO, MANHOLE, WELL,
VENT, SEPTIC TANK, ETC.



ABBREVIATIONS

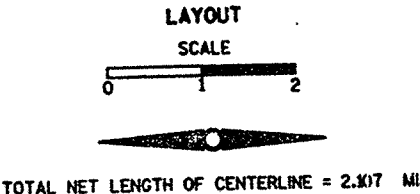
A.P. ACCESS POINT
AC. ACRES
A.H. AHEAD
ALUM. ALUMINUM
ET. AL. AND OTHERS
BK. BACK
BIT. BITUMINOUS
C.M. CABLE MARKER
C. COUNTY TRUNK HIGHWAY
C.S.M. CERTIFIED SURVEY MAP
CONC. CONCRETE
COR. CORNER
CULV. CULVERT
D/B/O DOING BUSINESS AS
E. ELECTRIC
FDN. FOUNDATION
G. GARAGE
G.M. GAS MARKER
G.P. GAS PUMPS
H. HOUSE
I.P. IRON PIPE
L.C. LAND CONTRACT
LT. LEFT
L. LENGTH OF CURVE

L.H.E. LIMITED HIGHWAY EASEMENT
L.C. LONG CHORD
L.C.B. LONG CHORD BEARING
M.H. MANHOLE
MON. MONUMENT
O.L. OUTLOT
P. PAGE
P.K. PARKER-KALON
P.C. POINT OF CURVATURE
P.I. POINT OF INTERSECTION
P.T. POINT OF TANGENCY
P.L. PROPERTY LINE
R. RADIUS
R.R. RAILROAD
R. REFERENCE LINE
R.D.E. RESTRICTED DEVELOPMENT EASEMENT
RT. RIGHT
R/W RIGHT OF WAY
SEC. SECTION
S. SHED
S.T.H. STATE TRUNK HIGHWAY
STA. STATION
T. TANGENT LENGTH OF CURVE
TAV. TAVERN
U.S.H. UNITED STATES HIGHWAY
X. EAST COORDINATE
Y. NORTH COORDINATE

NOTE:
ALL BEARINGS SHOWN ON THIS PLAT ARE TRUE BEARINGS
OF EACH TANGENT.
ALL COORDINATES SHOWN ON THIS PLAT ARE SCALED FROM
THE U.S.G.S. TOPOGRAPHIC MAPS, 7.5 MINUTE QUADRANGLE, FREEDOM,
WISCONSIN, CENTRAL ZONE, FOR IDENTIFICATION ONLY.
AREAS SHOWN ON THE TOTAL REMAINING ACRES COLUMN MAY BE
APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER
AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS WHICH ARE
NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

BEGIN RELOCATION ORDER
STA. 234+83.53
X=2,435,400 (± 100')
Y=206,100 (± 100')
LOCATED 13.27 FEET NORTH AND 548.36
EAST OF THE NORTHEAST CORNER OF
SECTION 17, TOWNSHIP 22 NORTH,
RANGE 18 EAST.

END RELOCATION ORDER
STA. 346+05.94
LOCATED AT THE NORTHEAST CORNER OF
SECTION 15, TOWNSHIP 22 NORTH,
RANGE 18 EAST.



R/W PROJECT NUMBER: 6037-02-00	SHEET NUMBER 4.0	TOTAL SHEETS 7
FEDERAL PROJECT NUMBER		
PLAT OF RIGHT OF WAY REQUIRED FOR C.T.H. "C"-S.T.H. 55		
C.T.H. "S" OUTAGAMIE COUNTY		
6037-02-72		4.0

APPROVED
FOR
OUTAGAMIE COUNTY

7/6/92
DATE


COUNTY HIGHWAY COMMISSIONER



PLAT PREPARED
BY
AYRES ASSOCIATES
CONSULTING ENGINEERS
GREEN BAY, WISCONSIN

SCHEDULE OF LANDS & INTERESTS REQUIRED

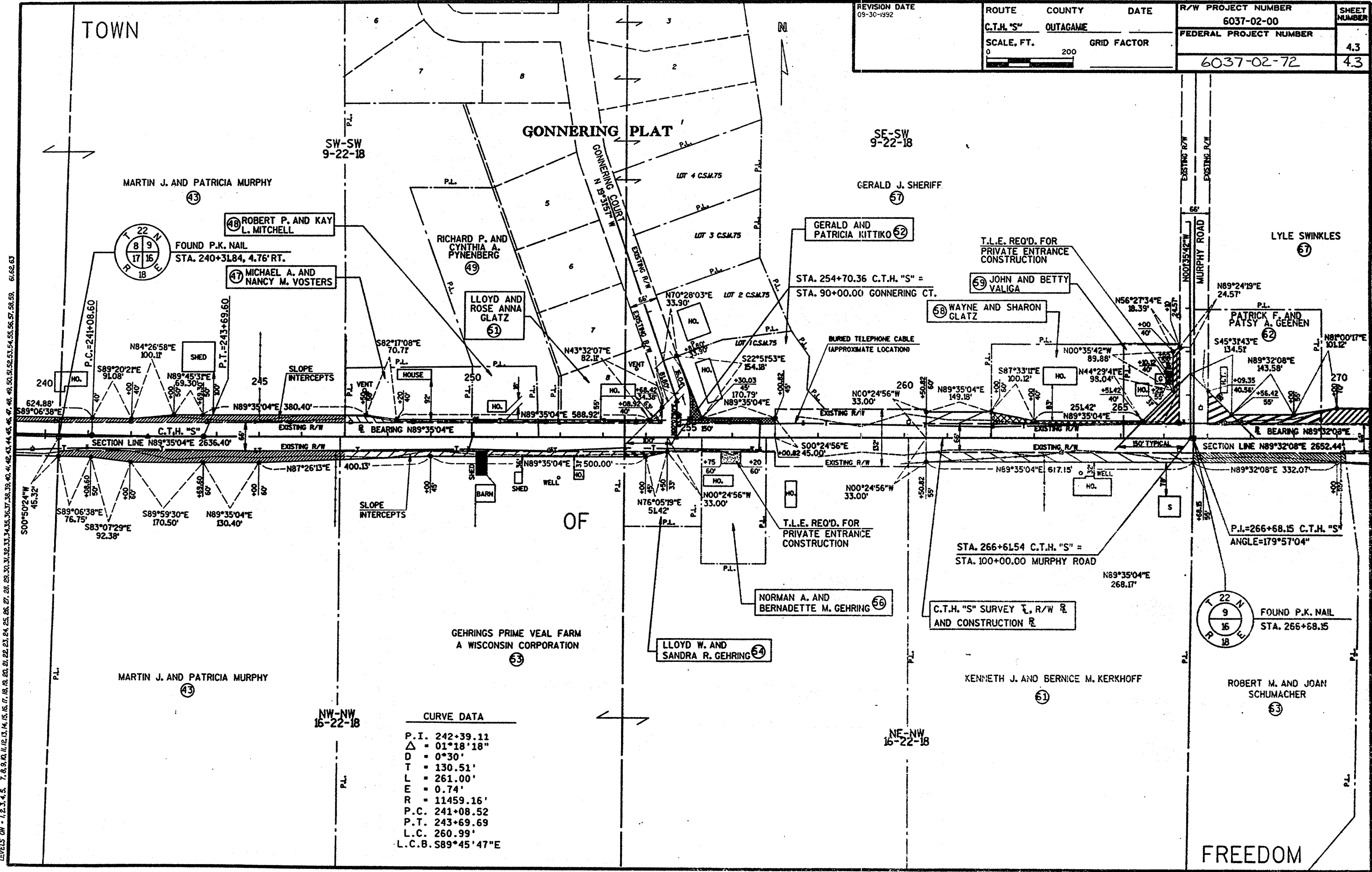
AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT ABUTTING THE AREA TO BE ACQUIRED ALONG THE HIGHWAY.

REVISION DATE 09-30-1997	ROUTE C.T.H. "S"	COUNTY OUTAGAME	DATE	R/W PROJECT NUMBER 6037-02-00	SHEET NUMBER 4J
				FEDERAL PROJECT NUMBER 6037-02-72	4.1

PARCEL NO.	SHEET NO.	OWNERSHIP	INTEREST REQUIRED	TOTAL ACRES	R/W ACRES			TOTAL ACRES REMAINING	T.L.E. ACRES (TEMP.)	P.L.E. ACRES (PERM.)
					NEW	EXISTING	TOTAL			
43	4.2,4.3	MARTIN J. AND PATRICIA MURPHY	FEE	78.70	0.73	1.41	1.86	76.84	----	----
44										
45										
46										
47	4.3	MICHAEL A. AND NANCY M. VOSTERS	FEE	3.13	0.06	0.22	0.28	2.85	----	----
48	4.3	ROBERT P. AND KAY L. MITCHELL	FEE	0.56	0.02	0.12	0.14	2.13	----	----
49	4.3	RICHARD P. AND CYNTHIA A. PYNENBERG	FEE	2.02	0.01	0.03	0.04	1.98	----	----
50										
51	4.3	LLOYD AND ROSE ANNA GLATZ	FEE	0.76	0.05	----	0.05	0.71	----	----
52	4.3	GERALD AND PATRICIA KITTKO	FEE	1.47	0.08	0.15	0.23	1.24	----	----
53	4.3	GEHRINGS PRIME VEAL FARM	FEE	58.07	0.22	0.50	0.72	57.35	----	----
54	4.3	LLOYD W. AND SANDRA R. GEHRING	FEE	0.70	0.02	0.08	0.10	0.60	----	----
55										
56	4.3	NORMAN A. AND BERNADETTE M. GEHRING	T.L.E.	----	----	----	----	0.03	----	----
57	4.3	GERALD J. SHERIFF	FEE	7.73	0.10	0.12	0.22	7.51	----	----
58	4.3	WAYNE AND SHARON GLATZ	FEE	1.51	0.07	0.23	0.30	1.21	----	----
59	4.3	JOHN AND BETTY VALIGA	FEE AND T.L.E.	0.77	0.13	0.26	0.39	0.38	0.01	----
60										
61	4.3	KENNETH J. AND BERNICE KERKHOFF	FEE	19.97	0.31	0.47	0.78	19.19	----	----
62	4.3	PATRICK F. AND PATSY A. GEENEN	FEE	2.01	0.17	0.28	0.45	1.56	----	----
63	4.3	ROBERT M. AND JOAN SCHUMACHER	FEE	10.85	0.16	0.26	0.42	10.43	----	----
64	4.4	ROGER A. AND LOIS M. HANSEN	FEE AND T.L.E.	1.92	0.19	0.24	0.43	1.49	0.01	----
65										
66	4.4	ROBERT J. TIGLAS AND SHARON L. KOTTLER	FEE AND T.L.E.	1.73	0.17	0.21	0.38	1.35	0.01	----
67	4.4	LYLE SWINKLES	FEE	68.02	0.48	0.44	0.92	67.10	----	----
68	4.4	WILLARD J. AND MARY LOU SCHUH	FEE	94.61	1.04	1.28	2.32	92.29	----	----
69	4.4	LEROY W. AND RHONDA R. ABEL	FEE	0.50	0.03	0.08	0.11	0.39	----	----
70										
71	4.4,4.5	HENRY C. GEENEN	FEE	136.92	2.93	2.33	5.26	131.66	----	----
72										
73	4.5	DEWARNE W. AND PATRICIA A. LOCY	FEE	2.00	0.24	0.16	0.40	1.60	----	----
74	4.5,4.6	DONALD P. AND LOIS CONNERING	P.L.E. AND T.L.E.	----	----	----	----	0.48	0.02	----
75										
76	4.5,4.6	ELLEN M. REIMER	FEE	80.25	1.70	1.27	2.97	77.28	----	----
77										
78										
79	4.4	DANIEL H. AND SHIRLEY A. WEYLAND	FEE AND T.L.E.	3.50	0.25	0.35	0.60	2.90	0.02	----
80										
81	4.4	ALLEN J. AND BETTY A. HOTTENSTINE	FEE AND T.L.E.	10.39	0.18	0.50	0.68	9.71	0.07	----
82	4.6	GERALD J. VAN CAMP	T.L.E.	----	----	----	----	0.01	----	----
83	4.6	EUGENE F. AND MARY CONNERING	T.L.E.	----	----	----	----	0.11	----	----
84	4.6	RONALD E. AND LAVONNE GRENER	T.L.E.	----	----	----	----	0.09	----	----
85	4.6	SCOTT LUDWIG	T.L.E.	----	----	----	----	0.12	----	----
86	4.6	JOSEPH LUDWIG, JR.	T.L.E.	----	----	----	----	0.03	----	----
87	4.6	JOSEPH J. AND ROSE MARY GREEN	T.L.E.	----	----	----	----	0.11	----	----
88	4.6	MICHAEL J. LIEBERGEN	T.L.E.	----	----	----	----	0.04	----	----
89	4.6	ANDREW D. BOS AND ANN C. RUDNICK	T.L.E.	----	----	----	----	0.04	----	----
90	4.6	THOMAS A. AND MICHELLE M. WASURICK	T.L.E.	----	----	----	----	0.05	----	----
91	4.6	ROBERT AND GRACE GARVEY	T.L.E.	----	----	----	----	0.02	----	----
92	4.6	FREEDOM SCHOOL DISTRICT NO. 3	FEE	25.21	0.98	0.84	1.82	23.39	----	----
93	4.6	WISCONSIN BELL, INC.	RELEASE	----	----	----	----	----	----	----
94										

FILES ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

REVISION DATE 09-30-1992	ROUTE C.T.H. "S"	COUNTY OUTAGAME	DATE	R/W PROJECT NUMBER 6037-02-00	SHEET NUMBER 4.3
	SCALE, FT. 0 200	GRID FACTOR		FEDERAL PROJECT NUMBER 6037-02-72	4.3



LEVELS ON - 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

N

LYLE SWINKLES



WILLARD J. AND MARY LOU SCHUH

68

HENRY C. GEENEN

6

HENRY C. GEENEN

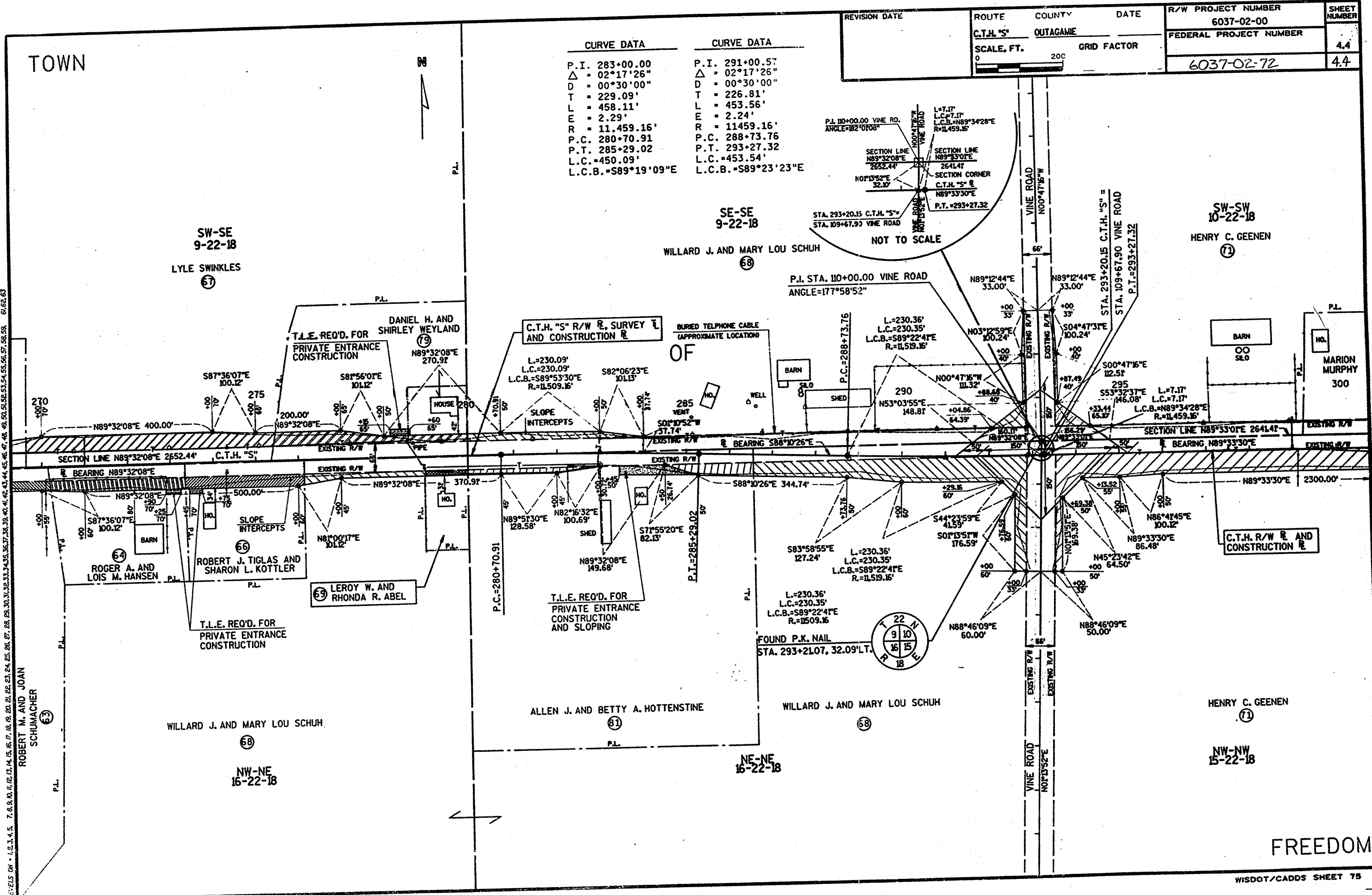
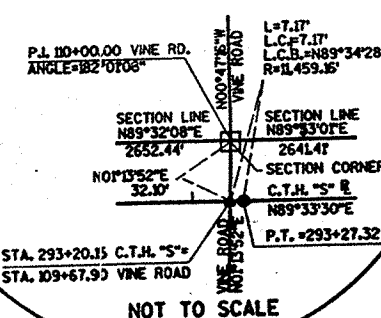
NW-NW
15-22-18

FREEDOM

WISDOT/CADD\$ SHEET 75

REVISION DATE	ROUTE	COUNTY	DATE	R/W PROJECT NUMBER	SHEET NUMBER
	C.T.H. "S"	OUTAGAME		6037-02-00	
	SCALE, FT.	GRID FACTOR	FEDERAL PROJECT NUMBER		4.4
	0 200 		6037-02-72	4.4	

CURVE DATA	CURVE DATA
P.I. 283+00.00	P.I. 291+00.57
Δ = 02°17'26"	Δ = 02°17'26"
D = 00°30'00"	D = 00°30'00"
T = 229.09'	T = 226.81'
L = 458.11'	L = 453.56'
E = 2.29'	E = 2.24'
R = 11,459.16'	R = 11459.16'
P.C. 280+70.91	P.C. 288+73.76
P.T. 285+29.02	P.T. 293+27.32
L.C. = 450.09'	L.C. = 453.54'
L.C.B. = S89°19'09"E	L.C.B. = S89°23'23"



1, 2, 3, 4, 5	7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63
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ROBERT M. AND JOAN
SCHUMACHER
63

FILE NAME:

TOWN

SW-SW
10-22-18

SE-SW
10-22-18

REVISION DATE	ROUTE	COUNTY	DATE	R/W PROJECT NUMBER	SHEET NUMBER
	C.T.H. "S"	OUTAGAMIE		6037-02-00	
	SCALE, FT.	GRID FACTOR		FEDERAL PROJECT NUMBER	4.5
	0 200			6037-02-72	4.5

FIRST ADDITION TO

WOODLAND

SUBDIVISION

SW-SE
10-22-18

EASEMENT
WISCONSIN ELECTRIC POWER CO.
J. 7763, I. 40-43, DOC. 919766

DONALD P. AND LOIS A. CONNERING

P.L.E. REQUIRED
FOR DRAINAGE

T.L.E. REQUIRED
FOR SLOPING

HENRY C. GEENEN

DEWAINE W. AND
PATRICIA A. LOCY

ELLEN M. REIMER

EASEMENT
WISCONSIN ELECTRIC POWER CO.
J. 7763, I. 40-43, DOC. 919766

STA. 321+81.43 C.T.H. "S" =
STA. 119+67.59 OAK LANE

OF

SLOPE
INTERCEPTS

SLOPE
INTERCEPTS

DEWAINE W. AND
PATRICIA A. LOCY

FOUND P.K. NAIL
STA. 319+62.50, 32.46' LT.

ELLEN M. REIMER

HENRY C. GEENEN

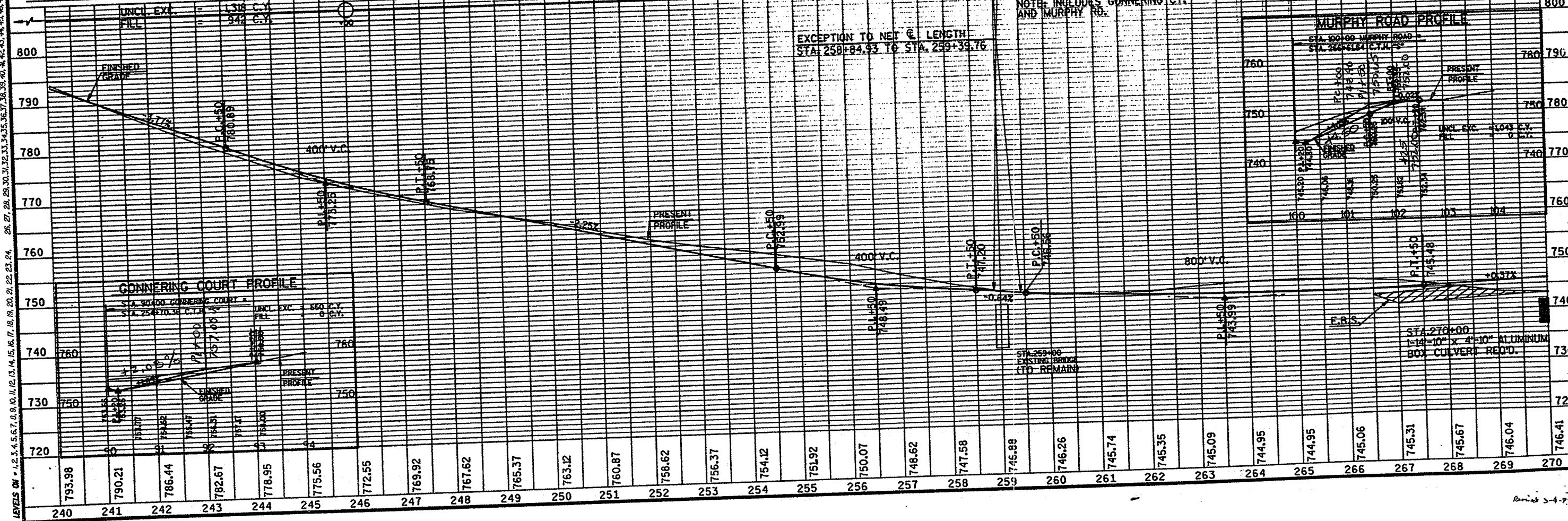
NE-NW
15-22-18

NW-NE
15-22-18

FREEDOM

1. 2. 3. 4. 5. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63.

| | |
|-------------------------|------------------|
| STATE PROJECT NUMBER | SHEET NO. |
| 6037-02-72 | 5.1 |
| PLAN AND PROFILE
FOR | |
| C.T.H. 5* | OUTAGAMIE COUNTY |

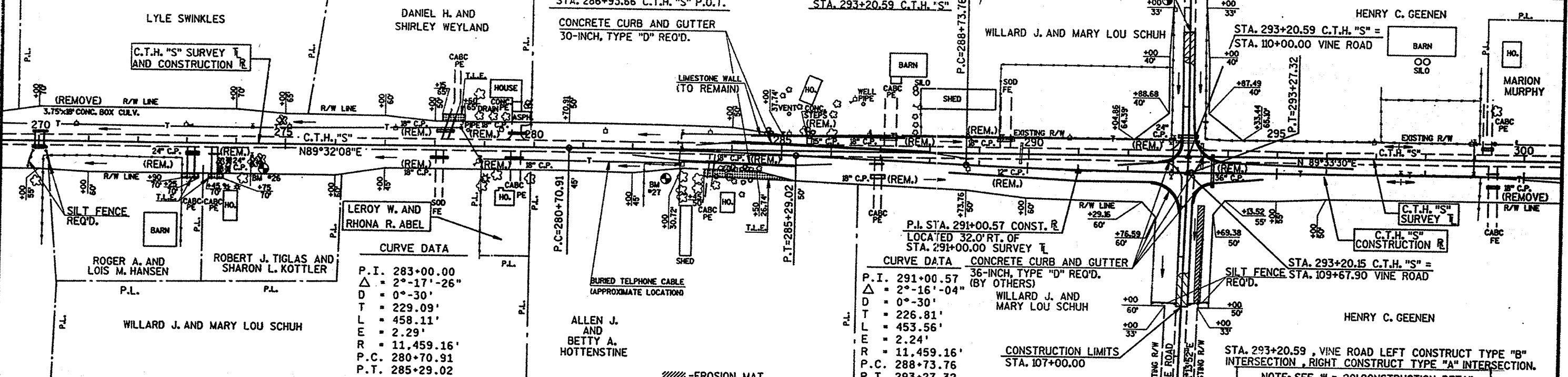


| BENCH MARKS | | | |
|-------------|--------|--------------------------------|--------|
| NO. | STA. | DESCRIPTION | ELEV. |
| 26 | 274+15 | 5" NAIL IN WILLOW-69' RT. | 743.62 |
| 27 | 283+31 | 5" NAIL IN BOX ELDER-57' RT. | 752.19 |
| 28 | 112+96 | 6" NAIL IN PP-32' LT. VINE RD. | 746.59 |

STATE PROJECT NUMBER
6037-02-72

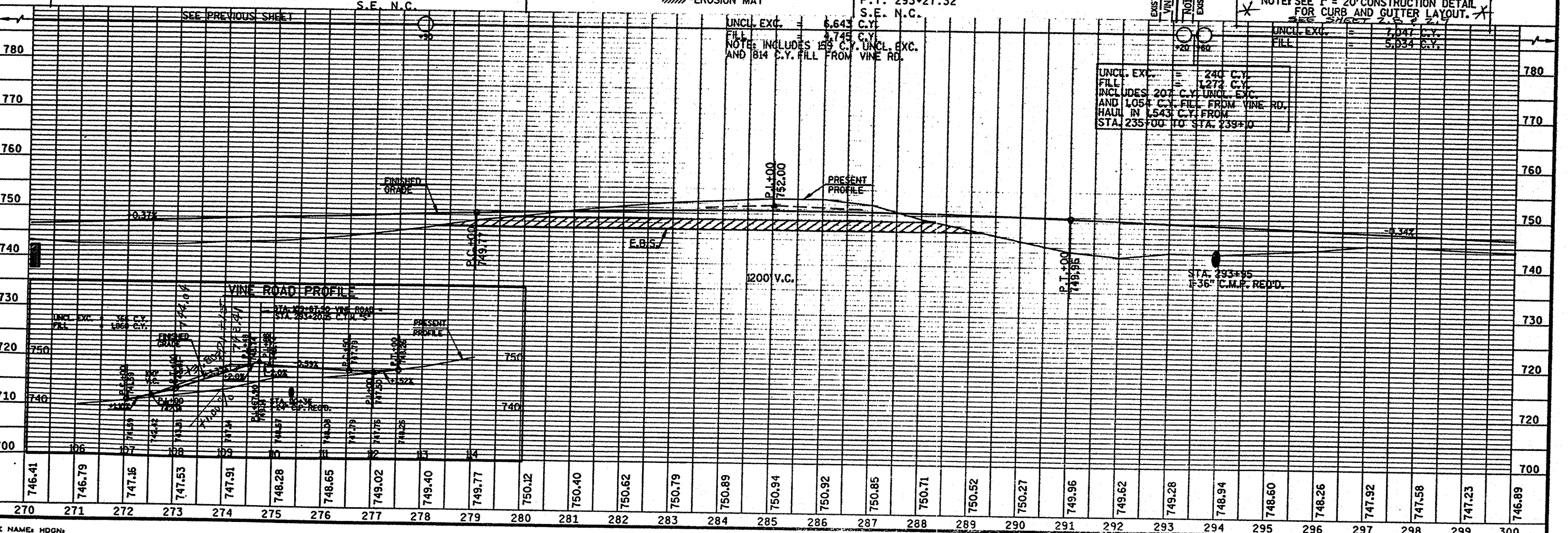
SHEET NO.
5.2

PLAN AND PROFILE
FOR
C.T.H. "S"
OUTAGAMIE COUNTY



| CURVE DATA | |
|------------|------------|
| P.I. | 283+00.00 |
| Δ | 2°-17'-26" |
| D | 0°-30' |
| T | 229.09' |
| L | 458.11' |
| E | 2.29' |
| R | 11,459.16' |
| P.C. | 280+70.91 |
| P.T. | 285+29.02 |
| S.E. | N.C. |

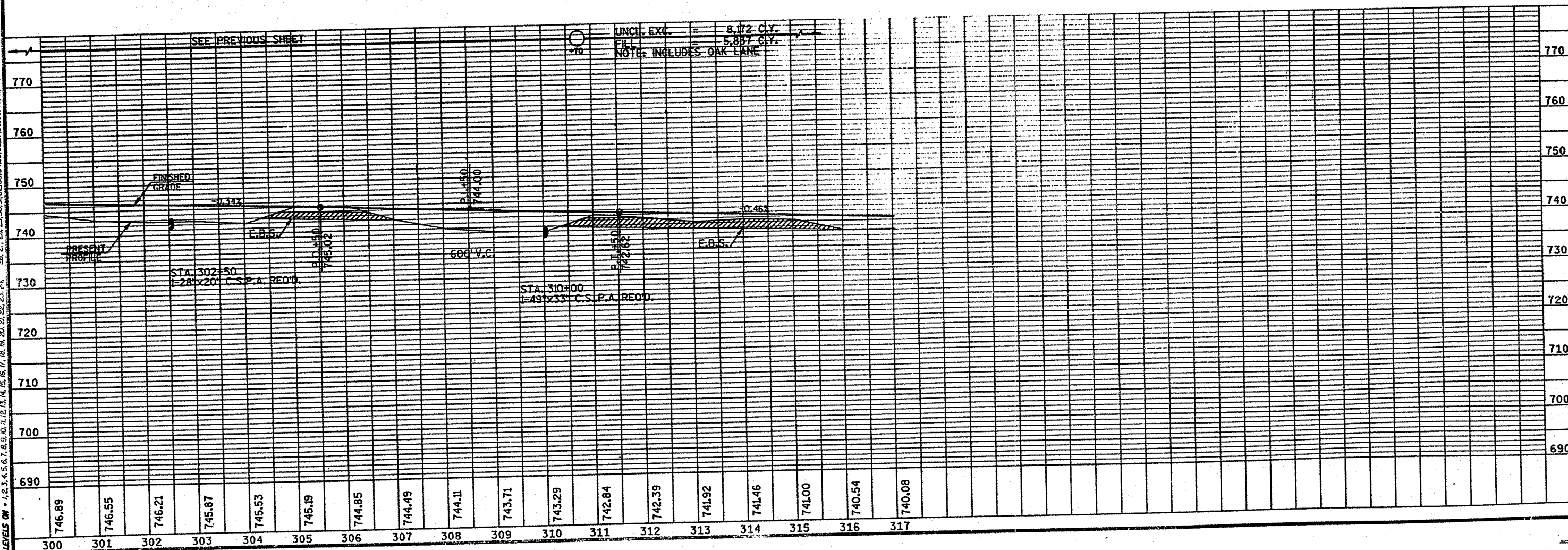
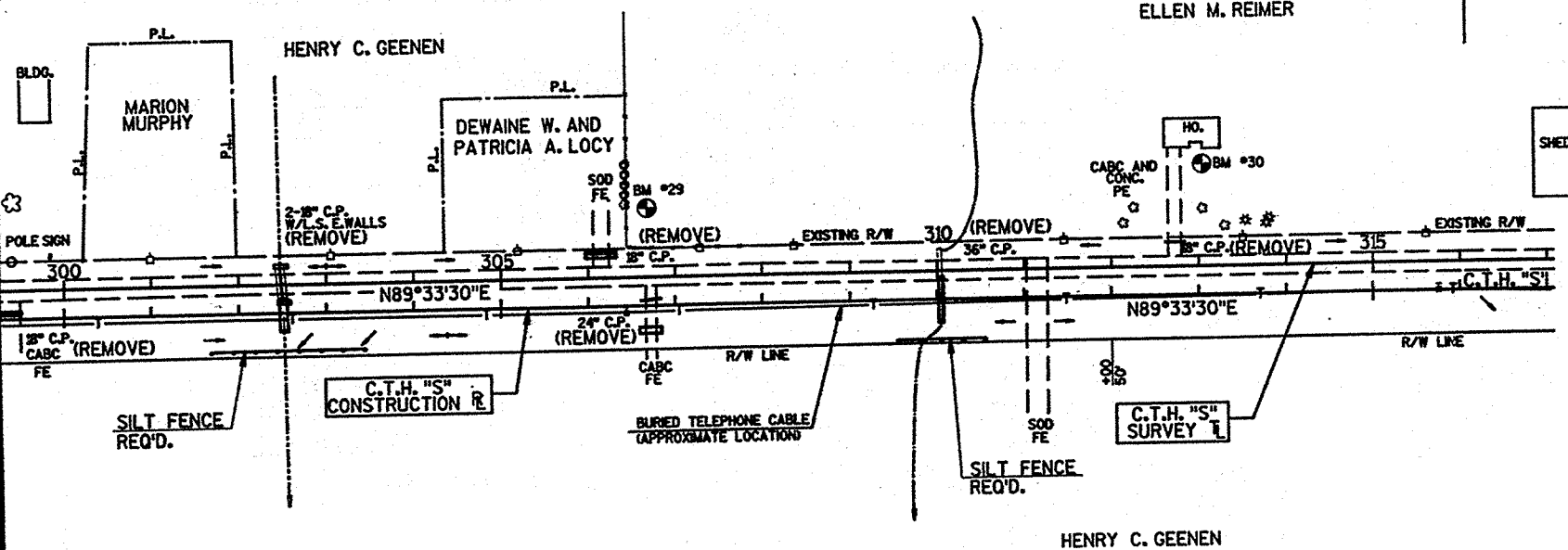
| CURVE DATA | |
|------------|------------|
| P.I. | 291+00.57 |
| Δ | 2°-16'-04" |
| D | 0°-30' |
| T | 226.81' |
| L | 453.56' |
| E | 2.24' |
| R | 11,459.16' |
| P.C. | 288+73.76 |
| P.T. | 293+27.32 |
| S.E. | N.C. |



LEVELS ON 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

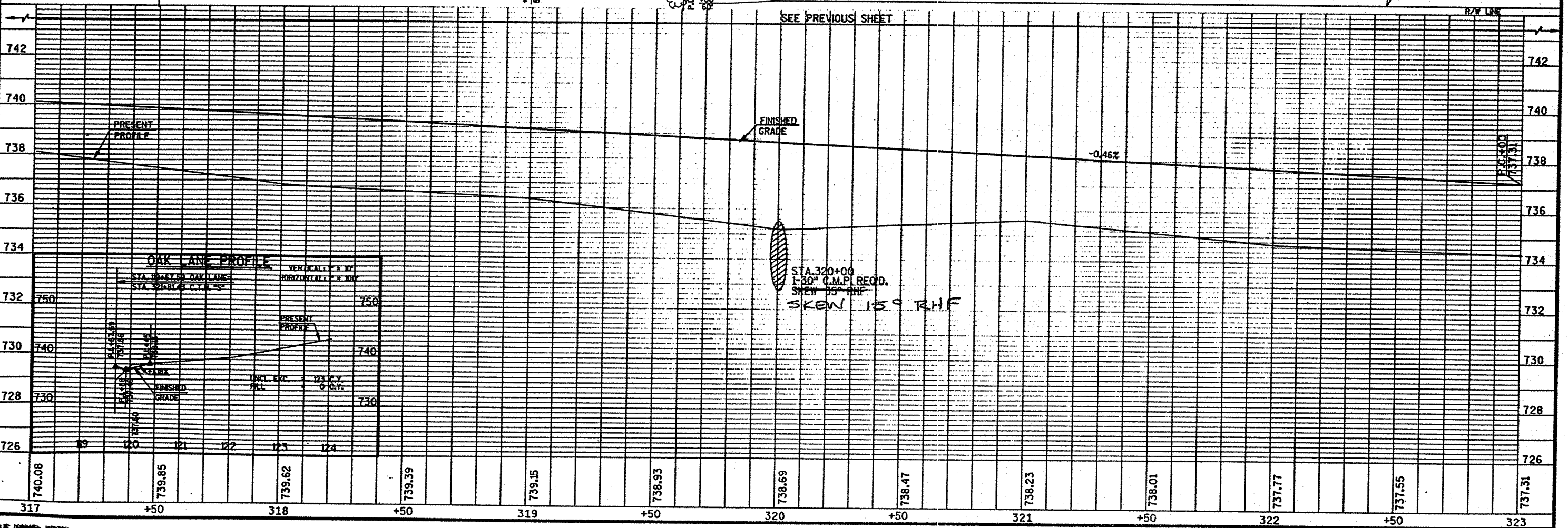
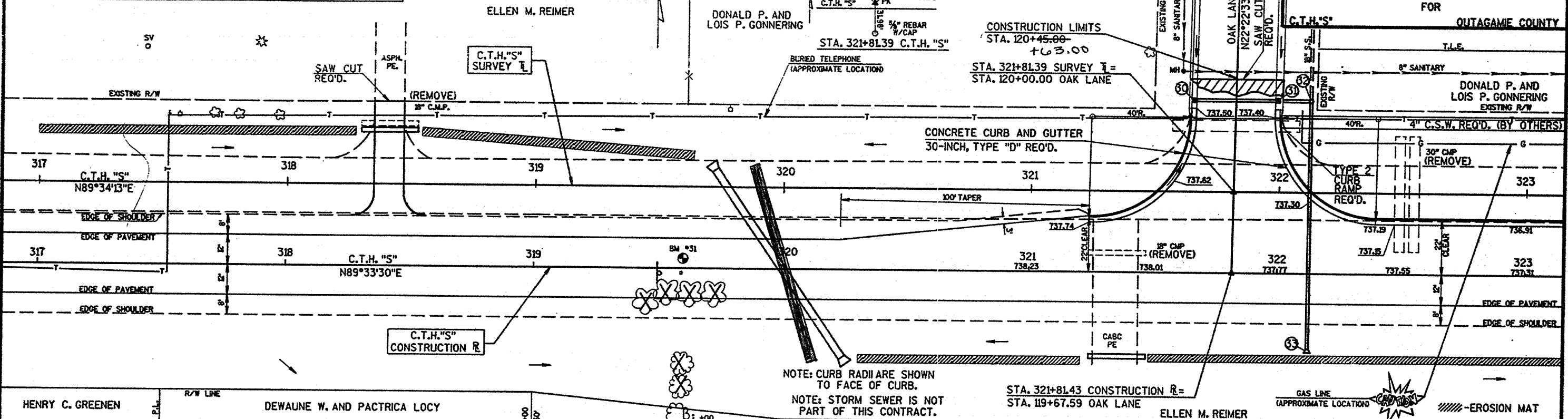
| BENCH MARKS | | | |
|-------------|--------|-----------------------------------|--------|
| NO. | STA. | DESCRIPTION | ELEV. |
| 29 | 306+50 | 6" NAIL IN 14" BOX ELDER-100' LT. | 748.94 |
| 30 | 312+91 | SE CORN. OF CONC. PORCH-133' LT. | 747.78 |

| | |
|-----------------------------|-----------|
| STATE PROJECT NUMBER | SHEET NO. |
| 6037-02-72 | 5.3 |
| PLAN AND PROFILE FOR | |
| C.T.H. "S" OUTAGAMIE COUNTY | |



| BENCH MARKS | | | |
|-------------|--------|----------------------------------|--------|
| NO. | STA. | DESCRIPTION | ELEV. |
| 31 | 319+59 | USGS TABLET "TT13-B1954"-36' LT. | 736.24 |
| 32 | 322+51 | SW COR. OF CONC. FOOTING-73' LT. | 737.25 |

| | | | |
|---------------------------------------|------------|-----------|-----|
| STATE PROJECT NUMBER | 6037-02-72 | SHEET NO. | 5.4 |
| PLAN AND PROFILE FOR OUTAGAMIE COUNTY | | | |



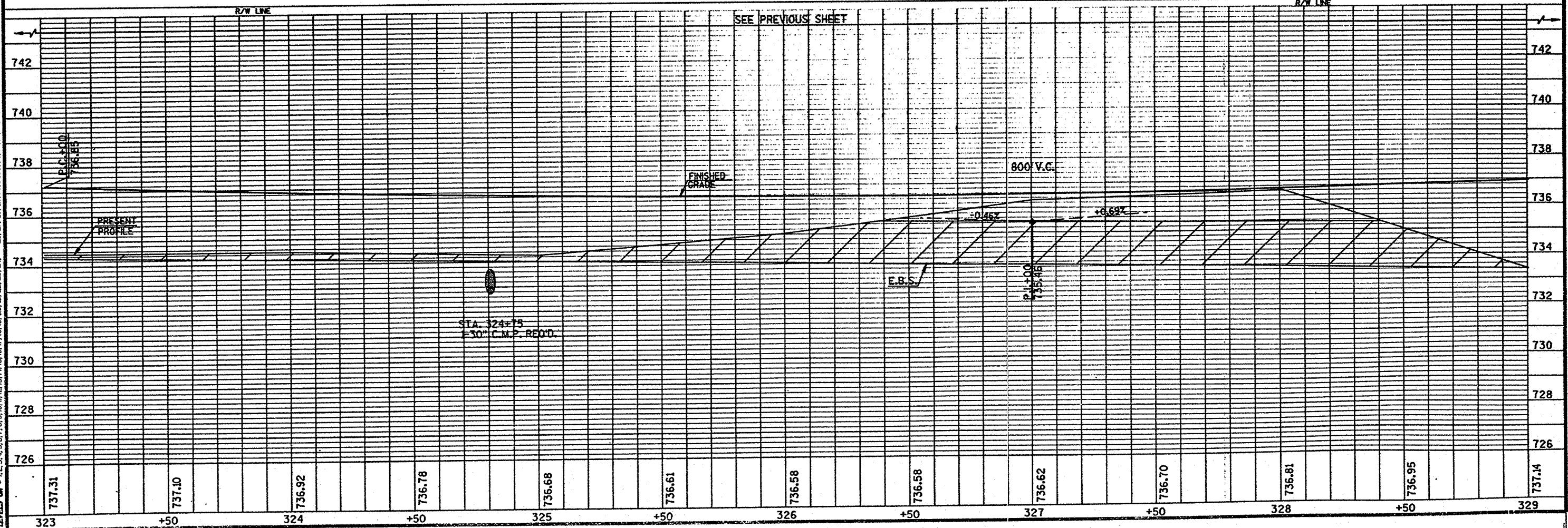
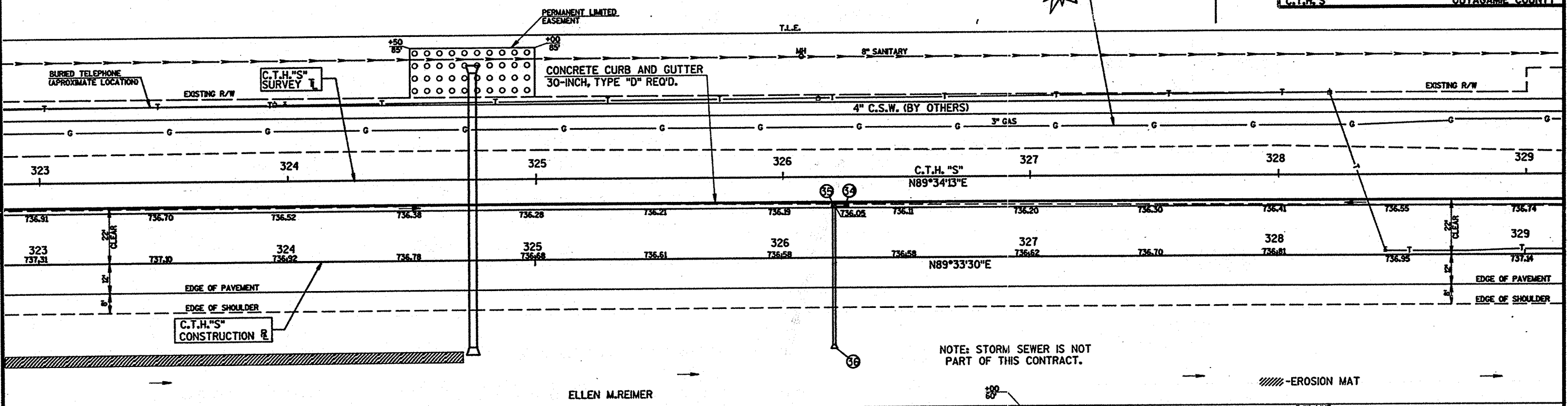
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299.0, 301.2, 303.4, 305.6, 307.8, 309.0, 311.2, 313.4, 315.6, 317.8, 319.0, 321.2, 323.4, 325.6, 327.8, 329.0, 331.2, 333.4, 335.6, 337.8, 339.0, 341.2, 343.4, 345.6, 347.8, 349.0, 351.2, 353.4, 355.6, 357.8, 359.0, 361.2, 363.4, 365.6, 367.8, 369.0, 371.2, 373.4, 375.6, 377.8, 379.0, 381.2, 383.4, 385.6, 387.8, 389.0, 391.2, 393.4, 395.6, 397.8, 399.0, 401.2, 403.4, 405.6, 407.8, 409.0, 411.2, 413.4, 415.6, 417.8, 419.0, 421.2, 423.4, 425.6, 427.8, 429.0, 431.2, 433.4, 435.6, 437.8, 439.0, 441.2, 443.4, 445.6, 447.8, 449.0, 451.2, 453.4, 455.6, 457.8, 459.0, 461.2, 463.4, 465.6, 467.8, 469.0, 471.2, 473.4, 475.6, 477.8, 479.0, 481.2, 483.4, 485.6, 487.8, 489.0, 491.2, 493.4, 495.6, 497.8, 499.0, 501.2, 503.4, 505.6, 507.8, 509.0, 511.2, 513.4, 515.6, 517.8, 519.0, 521.2, 523.4, 525.6, 527.8, 529.0, 531.2, 533.4, 535.6, 537.8, 539.0, 541.2, 543.4, 545.6, 547.8, 549.0, 551.2, 553.4, 555.6, 557.8, 559.0, 561.2, 563.4, 565.6, 567.8, 569.0, 571.2, 573.4, 575.6, 577.8, 579.0, 581.2, 583.4, 585.6, 587.8, 589.0, 591.2, 593.4, 595.6, 597.8, 599.0, 601.2, 603.4, 605.6, 607.8, 609.0, 611.2, 613.4, 615.6, 617.8, 619.0, 621.2, 623.4, 625.6, 627.8, 629.0, 631.2, 633.4, 635.6, 637.8, 639.0, 641.2, 643.4, 645.6, 647.8, 649.0, 651.2, 653.4, 655.6, 657.8, 659.0, 661.2, 663.4, 665.6, 667.8, 669.0, 671.2, 673.4, 675.6, 677.8, 679.0, 681.2, 683.4, 685.6, 687.8, 689.0, 691.2, 693.4, 695.6, 697.8, 699.0, 701.2, 703.4, 705.6, 707.8, 709.0, 711.2, 713.4, 715.6, 717.8, 719.0, 721.2, 723.4, 725.6, 727.8, 729.0, 731.2, 733.4, 735.6, 737.8, 739.0, 741.2, 743.4, 745.6, 747.8, 749.0, 751.2, 753.4, 755.6, 757.8, 759.0, 761.2, 763.4, 765.6, 767.8, 769.0, 771.2, 773.4, 775.6, 777.8, 779.0, 781.2, 783.4, 785.6, 787.8, 789.0, 791.2, 793.4, 795.6, 797.8, 799.0, 801.2, 803.4, 805.6, 807.8, 809.0, 811.2, 813.4, 815.6, 817.8, 819.0, 821.2, 823.4, 825.6, 827.8, 829.0, 831.2, 833.4, 835.6, 837.8, 839.0, 841.2, 843.4, 845.6, 847.8, 849.0, 851.2, 853.4, 855.6, 857.8, 859.0, 861.2, 863.4, 865.6, 867.8, 869.0, 871.2, 873.4, 875.6, 877.8, 879.0, 881.2, 883.4, 885.6, 887.8, 889.0, 891.2, 893.4, 895.6, 897.8, 899.0, 901.2, 903.4, 905.6, 907.8, 909.0, 911.2, 913.4, 915.6, 917.8, 919.0, 921.2, 923.4, 925.6, 927.8, 929.0, 931.2, 933.4, 935.6, 937.8, 939.0, 941.2, 943.4, 945.6, 947.8, 949.0, 951.2, 953.4, 955.6, 957.8, 959.0, 961.2, 963.4, 965.6, 967.8, 969.0, 971.2, 973.4, 975.6, 977.8, 979.0, 981.2, 983.4, 985.6, 987.8, 989.0, 991.2, 993.4, 995.6, 997.8, 999.0, 1001.2, 1003.4, 1005.6, 1007.8, 1009.0, 1011.2, 1013.4, 1015.6, 1017.8, 1019.0, 1021.2, 1023.4, 1025.6, 1027.8, 1029.0, 1031.2, 1033.4, 1035.6, 1037.8, 1039.0, 1041.2, 1043.4, 1045.6, 1047.8, 1049.0, 1051.2, 1053.4, 1055.6, 1057.8, 1059.0, 1061.2, 1063.4, 1065.6, 1067.8, 1069.0, 1071.2, 1073.4, 1075.6, 1077.8, 1079.0, 1081.2, 1083.4, 1085.6, 1087.8, 1089.0, 1091.2, 1093.4, 1095.6, 1097.8, 1099.0, 1101.2, 1103.4, 1105.6, 1107.8, 1109.0, 1111.2, 1113.4, 1115.6, 1117.8, 1119.0, 1121.2, 1123.4, 1125.6, 1127.8, 1129.0, 1131.2, 1133.4, 1135.6, 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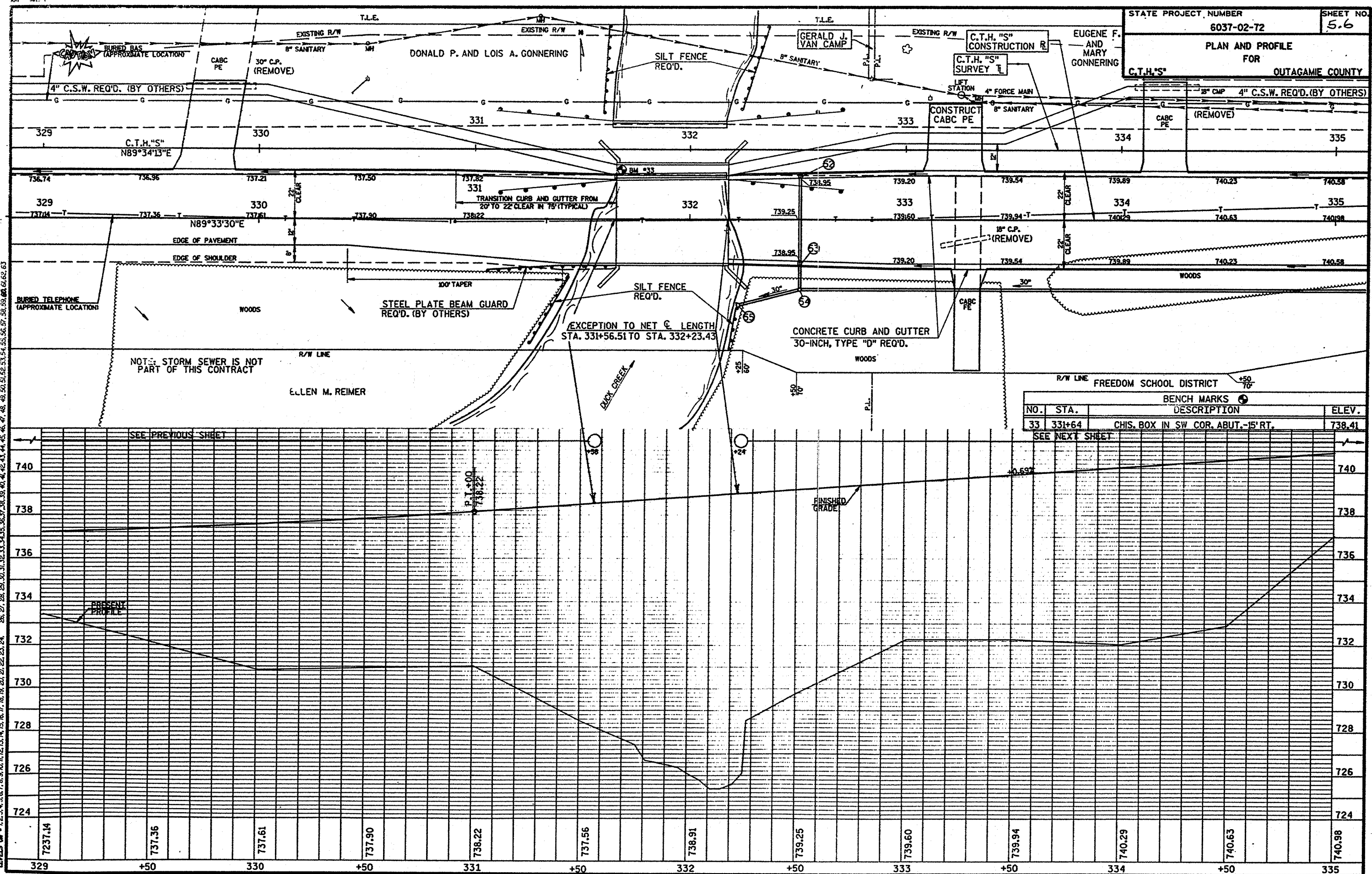
DONALD P. AND LOIS GONNERING

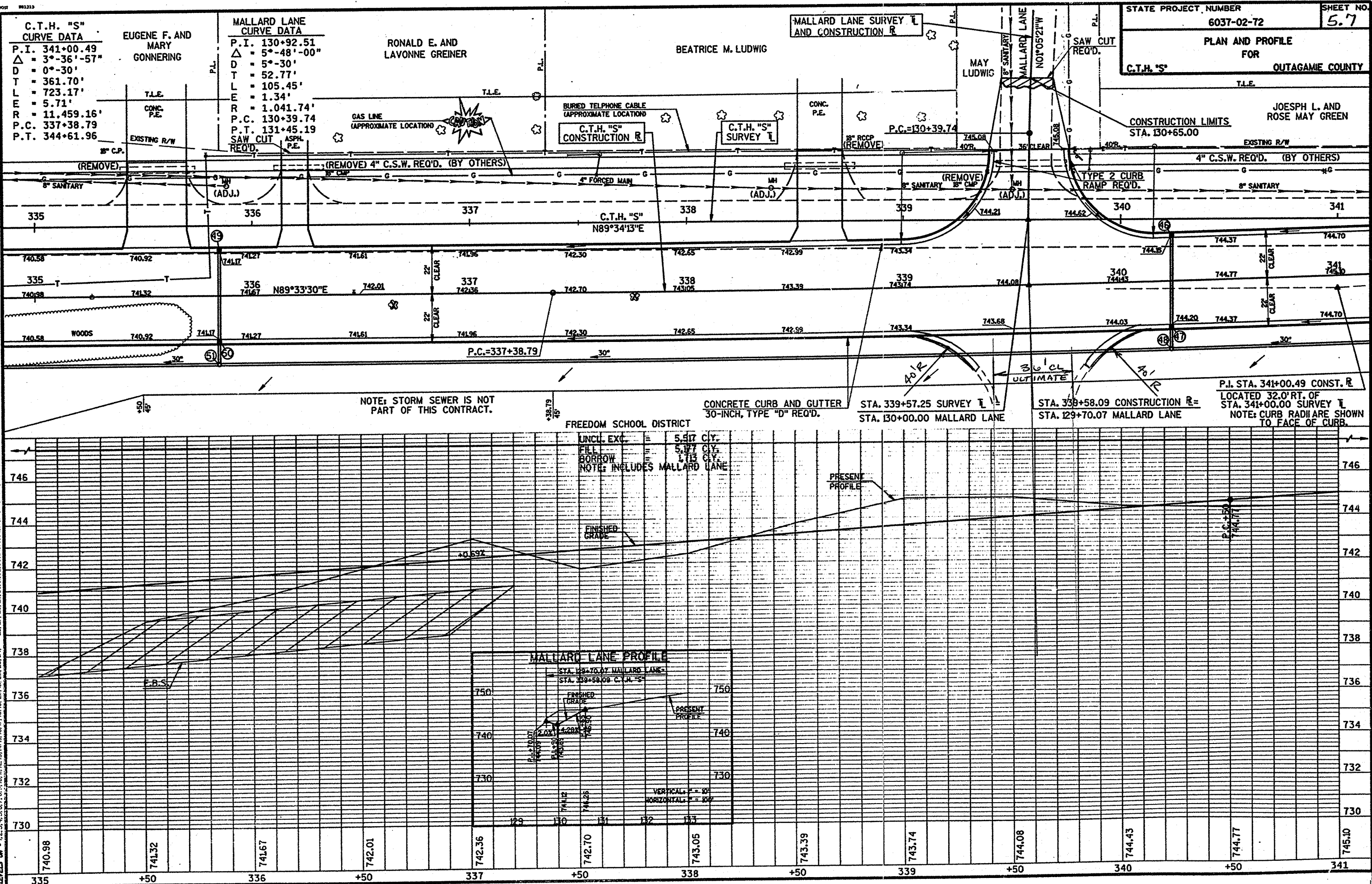
STATE PROJECT NUMBER
6037-02-72

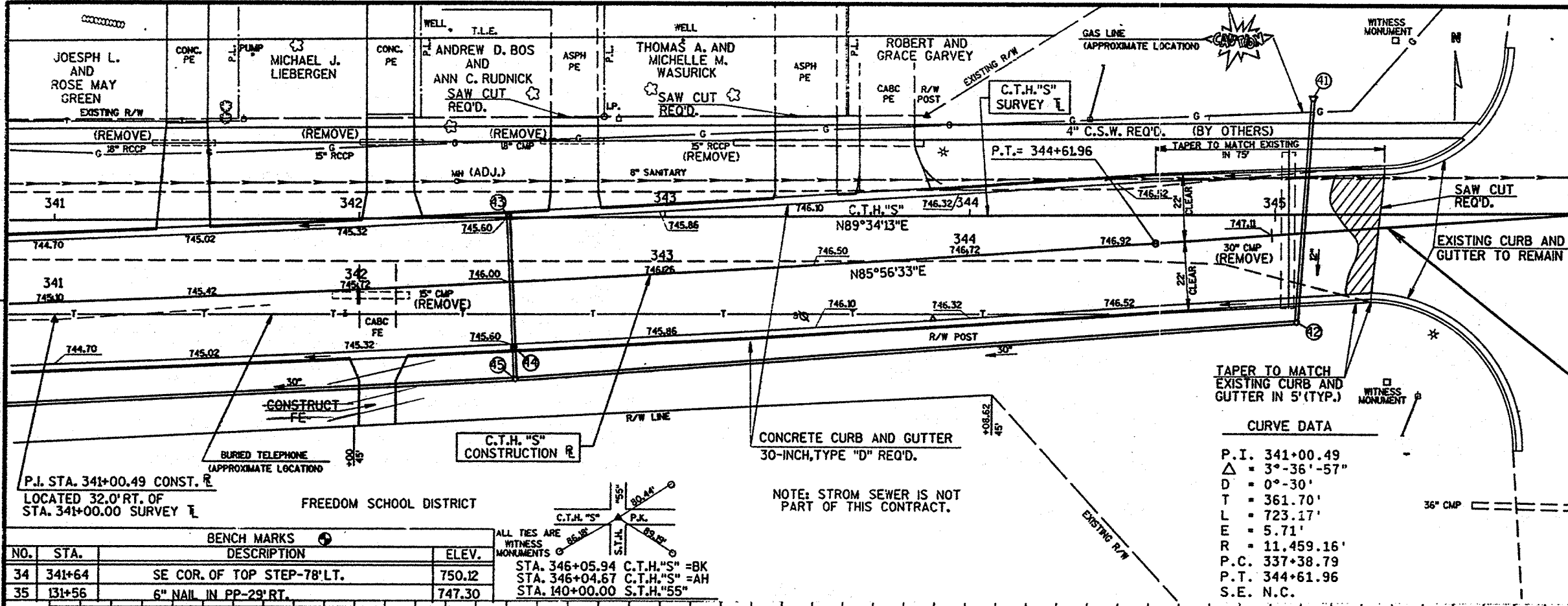
SHEET NO.
5.5

PLAN AND PROFILE
FOR
C.T.H."S" OUTAGAMIE COUNTY





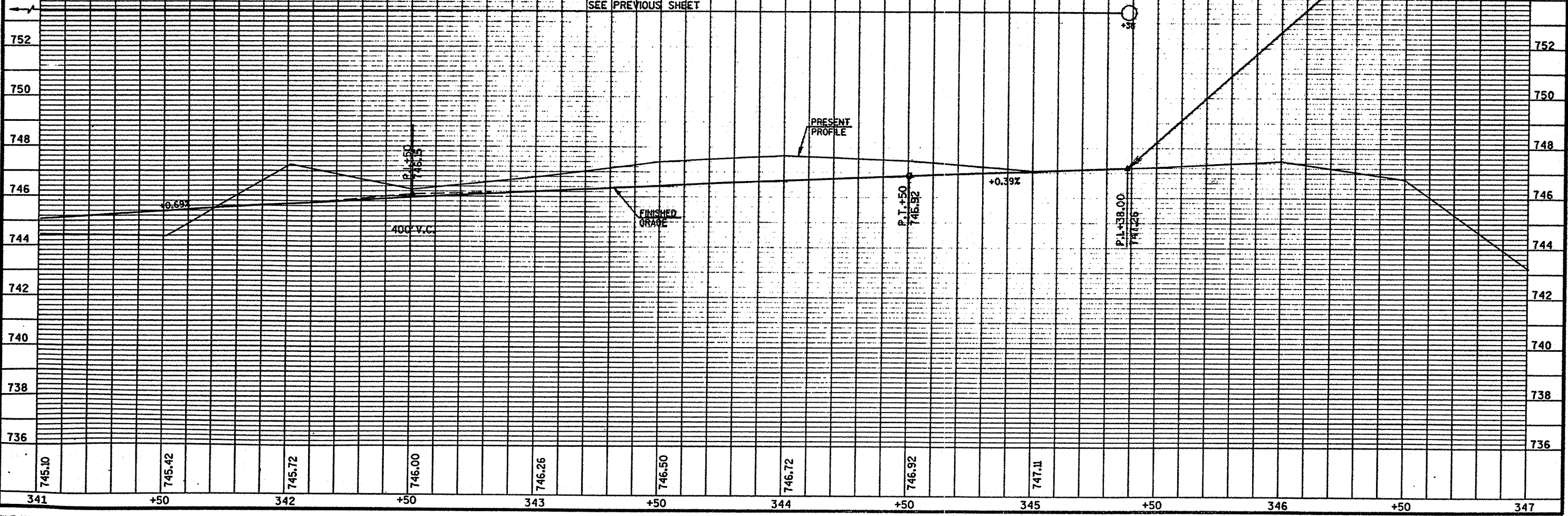


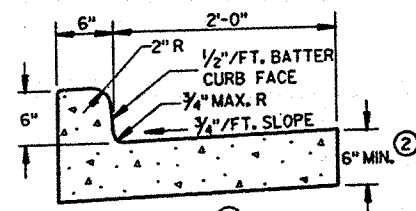


CURVE DATA
P.I. 341+00.49
Δ = 3°-36'-57"
D = 0°-30'
T = 361.70'
L = 723.17'
E = 5.71'
R = 11,459.16'
P.C. 337+38.79
P.T. 344+61.96
S.E. N.C.

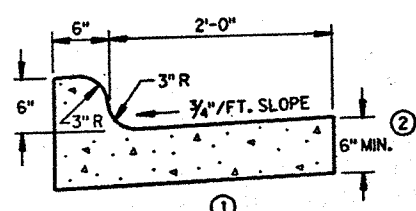
| BENCH MARKS | | | |
|-------------|--------|-----------------------------|--------|
| NO. | STA. | DESCRIPTION | ELEV. |
| 34 | 341+64 | SE COR. OF TOP STEP-78' LT. | 750.12 |
| 35 | 131+56 | 6" NAIL IN PP-29' RT. | 747.30 |

ALL TIES ARE
WITNESS
MONUMENTS
STA. 346+05.94 C.T.H.'S' =BK
STA. 346+04.67 C.T.H.'S' =AH
STA. 140+00.00 S.T.H.'55"

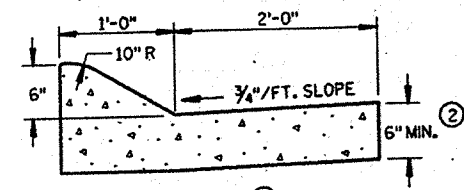




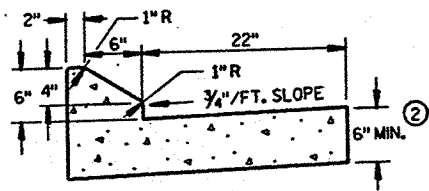
TYPES A & D



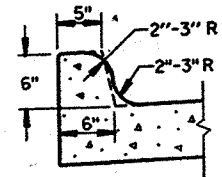
TYPES K & L



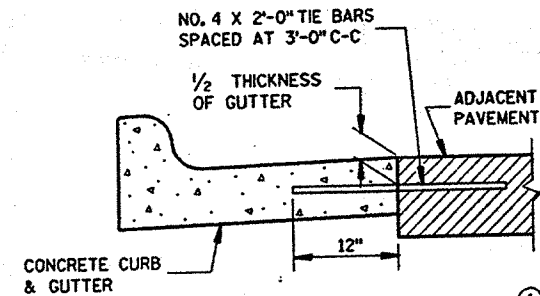
TYPES A & D
CONCRETE CURB & GUTTER 36"



TYPES G & J

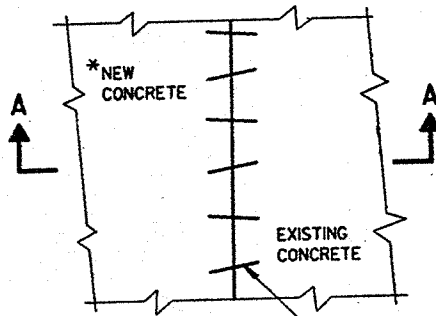


OPTIONAL CURB SHAPE
FOR TYPES K & L



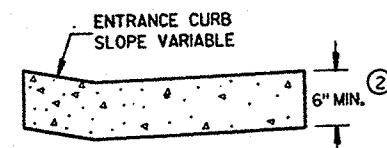
TYPICAL TIE BAR LOCATION

CONCRETE CURB & GUTTER 30"

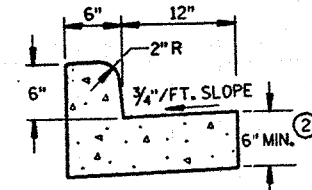


PLAN VIEW

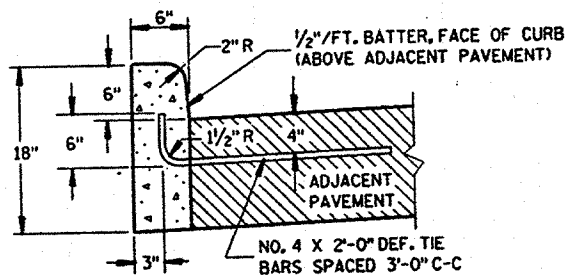
*NEW CURB & GUTTER,
SURFACE DRAINS,
CONCRETE PAVEMENT
OR OTHER NEW CONCRETE.



DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

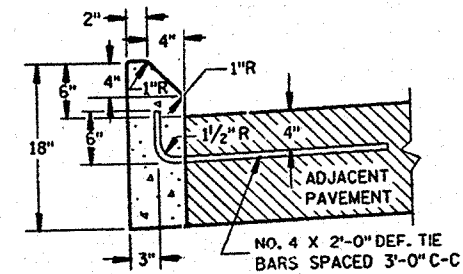


TYPES A & D
CONCRETE CURB & GUTTER 18"

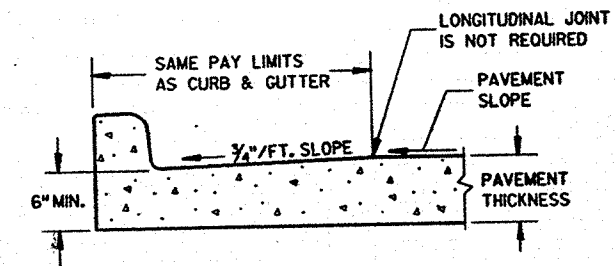


TYPES A & D

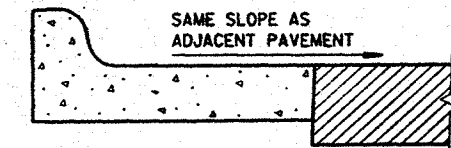
CONCRETE CURB



TYPES G & J



PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER



REVERSE SLOPE GUTTER
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEALANT IS NOT REQUIRED IN THE JOINTS OF CONCRETE CURB OR CONCRETE CURB & GUTTER EXCEPT AS REQUIRED FOR INTEGRAL GUTTER.

PAVEMENT TIES ARE REQUIRED, WHEN INCLUDED IN THE CONTRACT, WHERE CONCRETE CURB, CONCRETE CURB AND GUTTER OR CONCRETE PAVEMENT IS PLACED ADJACENT TO EXISTING CONCRETE.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. TIE BARS AND A LONGITUDINAL CONSTRUCTION JOINT ARE NOT REQUIRED WITH THIS ALTERNATE.

PAVEMENT JOINTS SHALL BE EXTENDED THROUGH INTEGRAL CURB & GUTTER. JOINTS IN INTEGRAL GUTTER SHALL HAVE THE SAME DIMENSIONS AS THE JOINTS IN THE ADJACENT PAVEMENT. JOINTS IN INTEGRAL CURB SHALL BE 1/8" WIDE.

JOINTS IN INTEGRAL CURB & GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME SEALANT SPECIFIED FOR THE PAVEMENT JOINT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB & GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE TWO FEET BEHIND THE BACK OF CURBS.

- 1 TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G AND K.
- 2 THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- 3 WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATIONS WILL BE SHOWN ELSEWHERE IN THE PLAN.

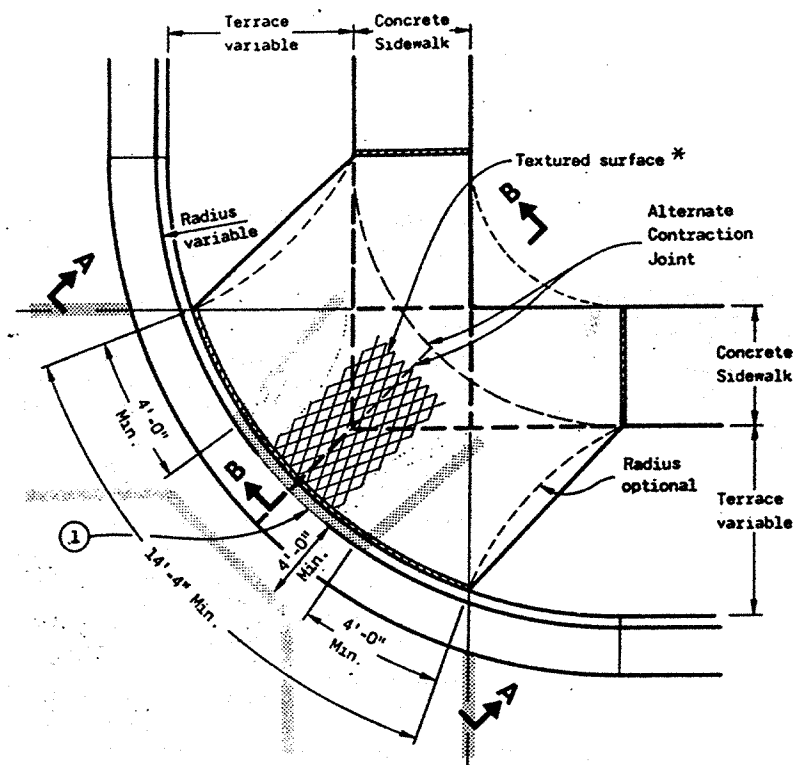
CONCRETE CURB, CONCRETE
CURB & GUTTER AND
PAVEMENT TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

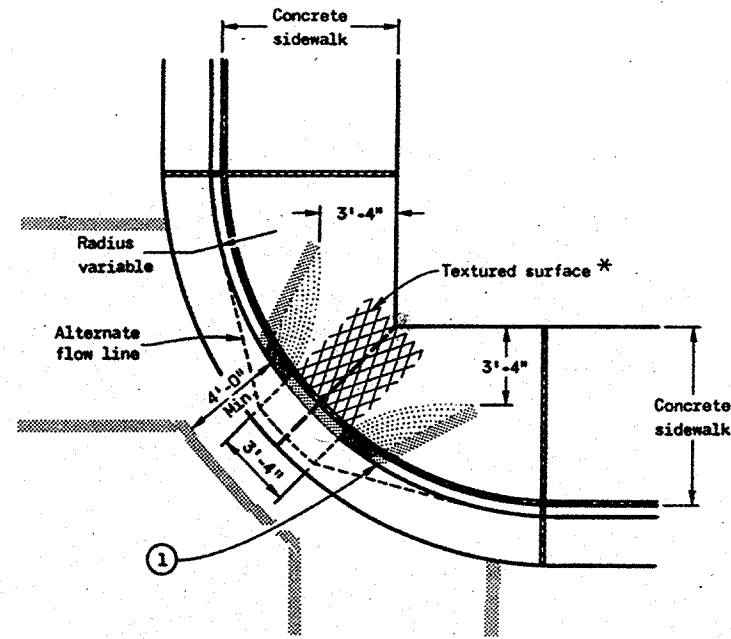
APPROVED
10-23-86
DATE

STATE DESIGN ENGINEER FOR HWYS

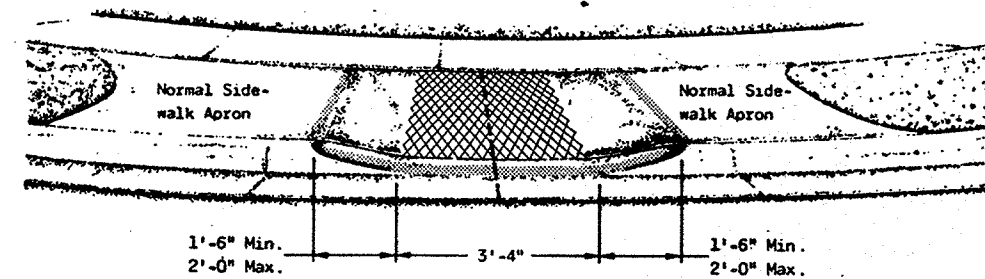
FHWA



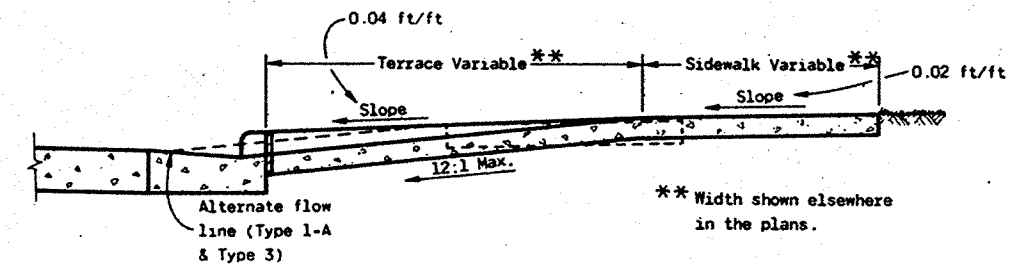
PLAN VIEW
TYPE 1 RAMP
(CENTER OF CORNER RADIUS)



PLAN VIEW
TYPE 1-A RAMP
(NO TERRACE)

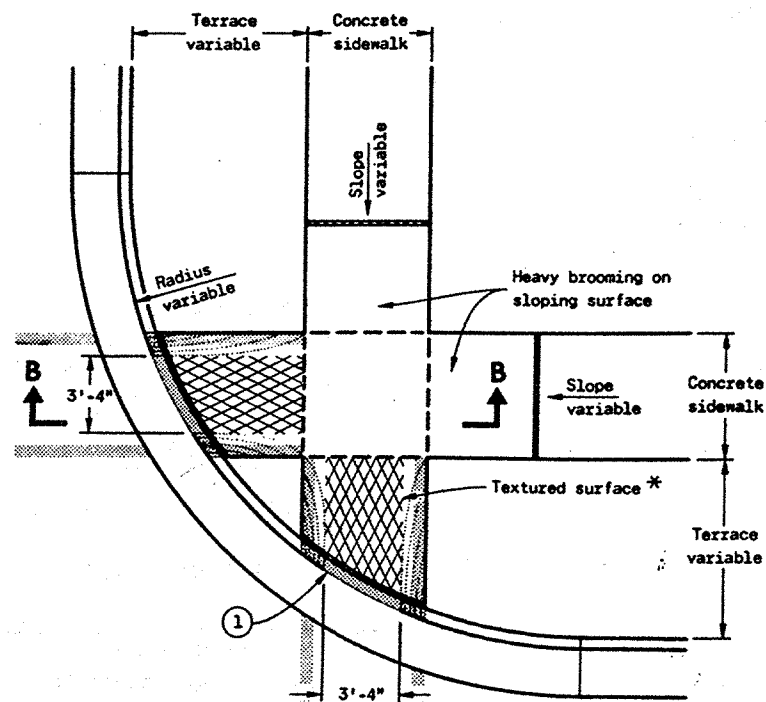


VIEW A-A

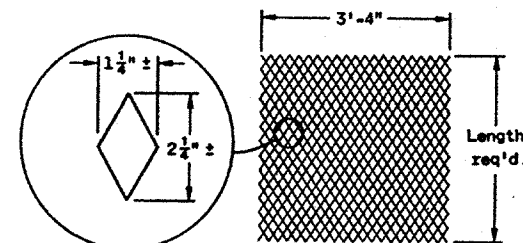


SECTION B-B

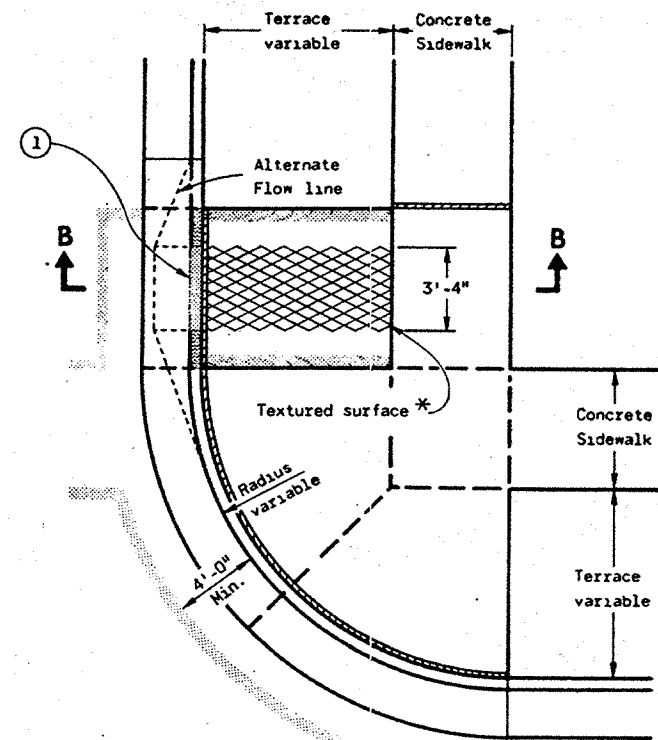
1/2" EXPANSION JOINTS - SIDEWALK
--- CONTRACTION JOINTS
Location of joints may be varied from those shown to better fit site conditions and/or local government preference.



PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)



DETAIL OF DIAMOND PATTERN *



PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

GENERAL NOTES

Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

Ramps shall be built at 12:1 or flatter. When necessary, the sidewalk elevation may be lowered to meet the high point on the ramp.

Type 1 or Type 1-A Ramps shall have a normal sidewalk apron and curb on both sides of ramp.

Curb ramps shall be measured and paid for as Concrete Sidewalk and Concrete Curb and Gutter.

Surface texturing shall consist of linear impressions approximately 1/4 inch to 3/8 inch in depth and width, oriented to provide a uniform pattern of diamond shapes measuring approximately 1 1/4 inches in width by 2 1/4 inches in length, with the length being parallel to the direction of pedestrian movement. This surface texture may be achieved by impressing and removing a piece of expanded metal regular industrial mesh into the surface of the ramp while the concrete is in a plastic state.

① The ramp shall be bordered on both sides and on the curb line with a 4 inch wide yellow stripe or with brick of a contrasting color. Normally the paint stripe alternate will be used. The municipality or the department will apply this striping unless otherwise specified in the contract.

If a municipality requires the brick alternate, special details and provisions are shown elsewhere in the plans.

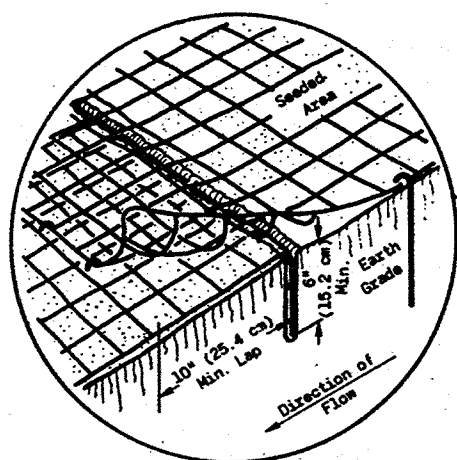
CURB RAMPS

State of Wisconsin
Department of Transportation

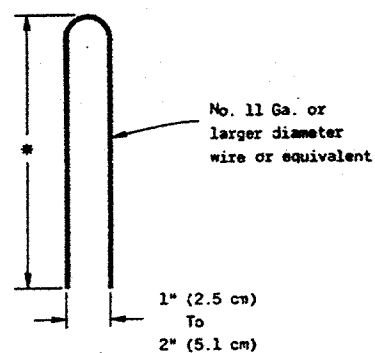
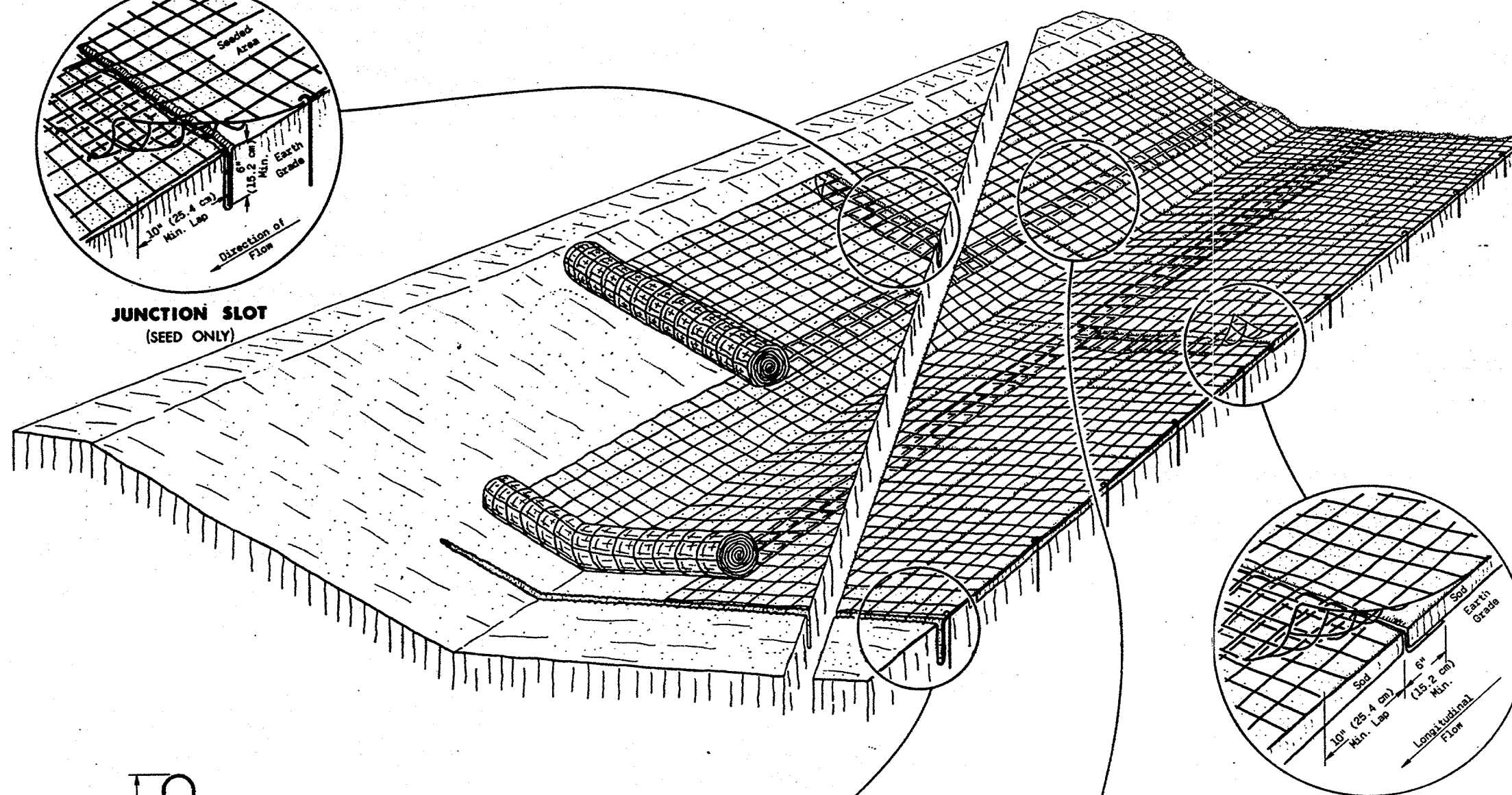
APPROVED
10-23-84
DATE

DD [Signature]
CHIEF DESIGN ENGINEER

FHWA

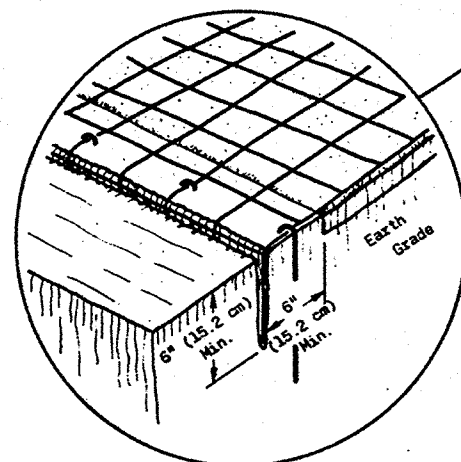


JUNCTION SLOT
(SEED ONLY)

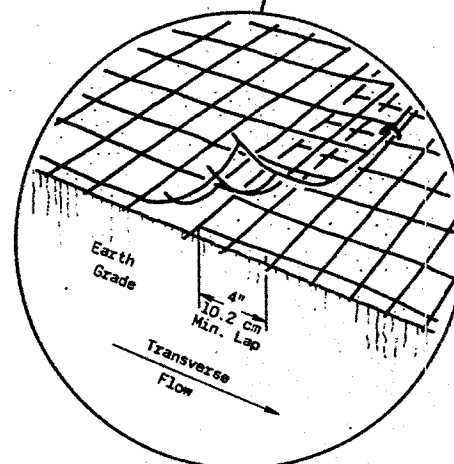


DETAIL OF
TYPICAL STAPLE

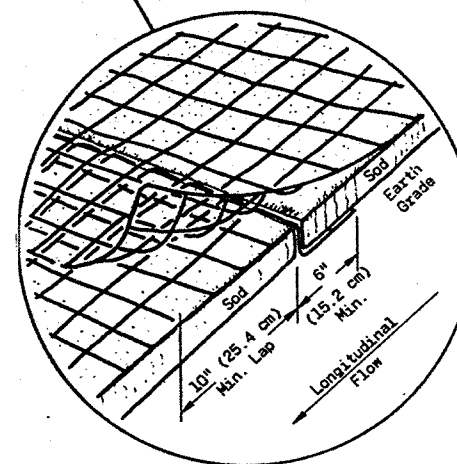
- * 6" (15.2 cm) Min. for firm soils
12" (30.5 cm) Min. for loose soils
8" (20.3 cm) Min. where both sod and mats are being used.



ANCHOR SLOT
AT BEGINNING AND END OF EROSION MAT
(SEED AND SOD)



LAP JOINT
(SEED AND SOD)



JUNCTION SLOT
(SOD ONLY)

GENERAL NOTES

Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

Variations in the dimensions or materials shown hereon shall be permitted if they provide equivalent protection and material strength and if prior approval of the Engineer is obtained.

Lap Joints shall not be placed in the bottom of V-shaped ditches.

Junction Slots on adjacent strips of Matting shall be staggered a minimum of 4 feet (1.219 m) apart.

Edges of the Erosion Mat shall be impressed in the soil.

Erosion Mat shall be measured and paid for in accordance with the Standard Specifications.

EROSION MAT OVER SOD

- Only Jute Fabric will be permitted over sod.
- Wood Stakes for Sod may be omitted by the Engineer if the existing slope and soil conditions so warrant.
- The width of Erosion Mat shall always equal the Sod width.
- Sod strips may be placed either longitudinally or transversely to the flow line of the Ditch.

EROSION MAT OVER SEEDING

Junction or Anchor Slots shall be at minimum intervals of 100 feet (30.48 m) on grades up to and including 3 percent, and 50 feet (15.24 m) on grades exceeding 3 percent.

| METHOD OF DIMENSIONING | |
|--------------------------------|--|
| 1'-0" (30.5 cm) | |
| 1'-0" (30.5 cm) | |
| BASIS: 1 in. = EXACTLY 25.4 mm | |

EROSION MAT

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL

12-5-73

DATE

APPROVED

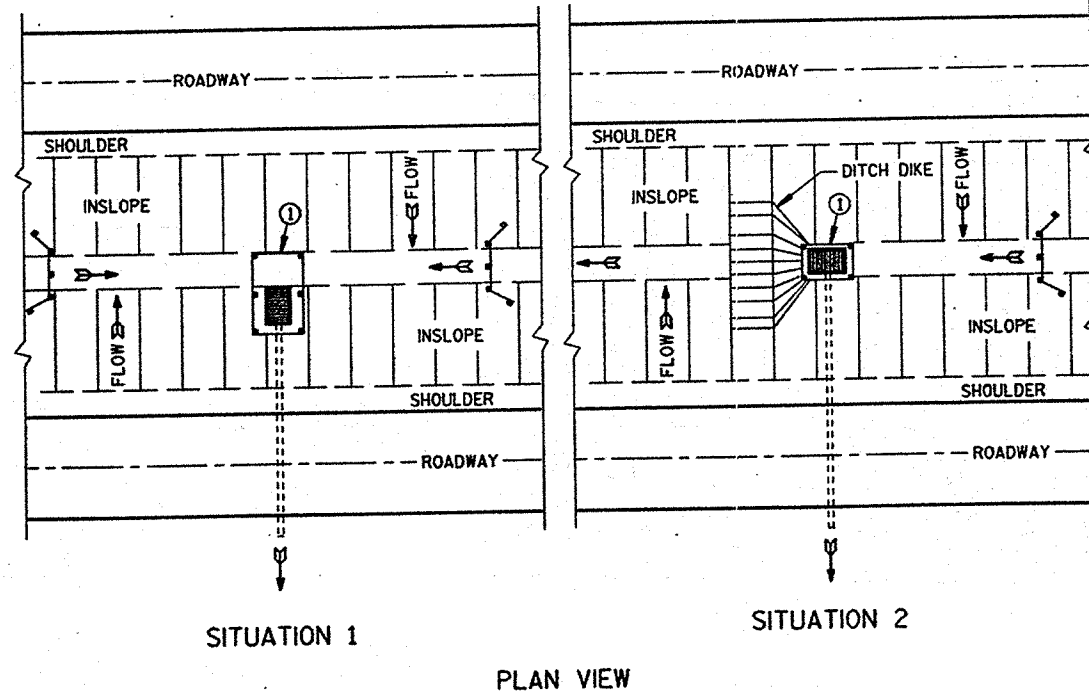
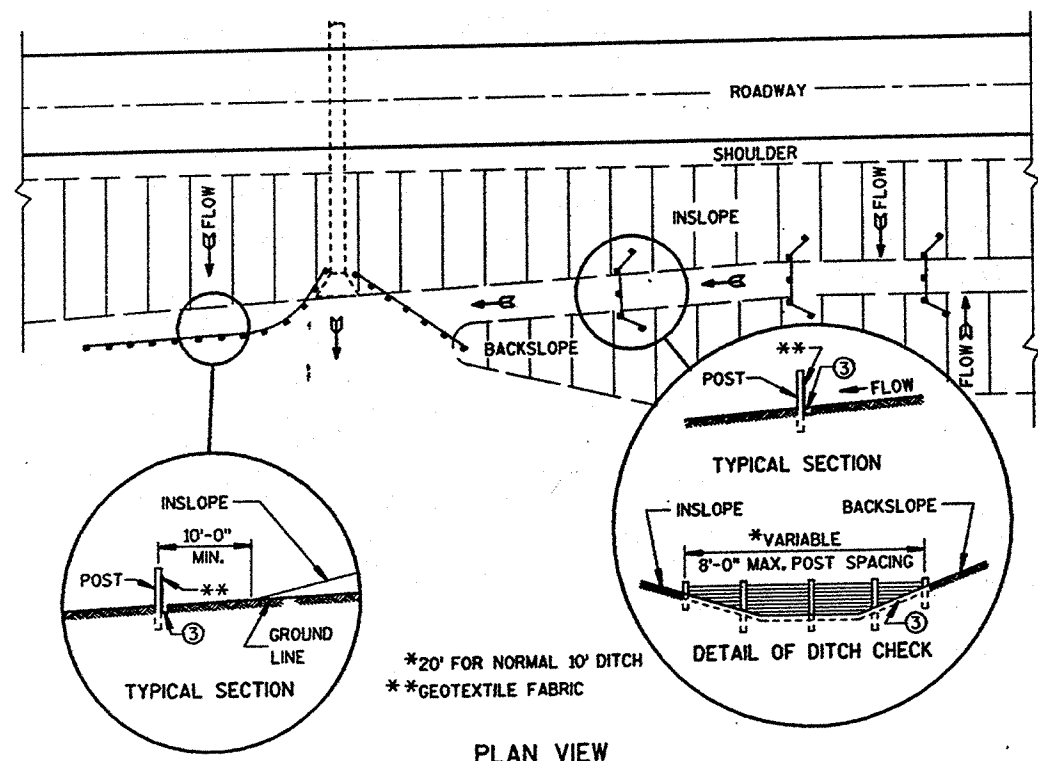
1-15-74

DATE

L.C. Thiel
CHIEF OF FACILITIES DEVELOPMENT

W. J. Sinden
STATE HIGHWAY ENGINEER

S.D.D. 8E7-1



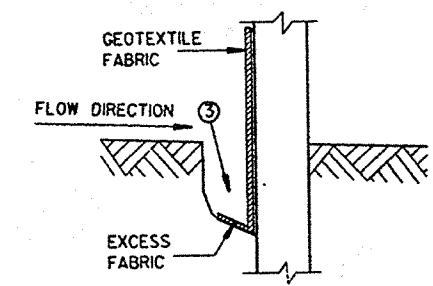
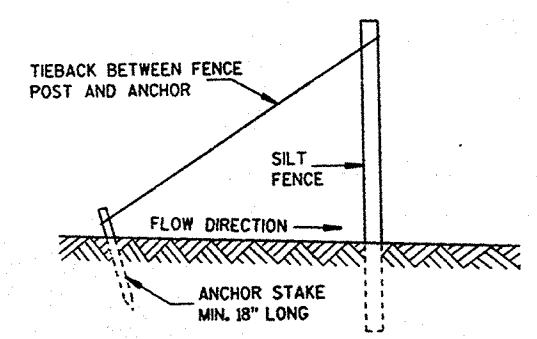
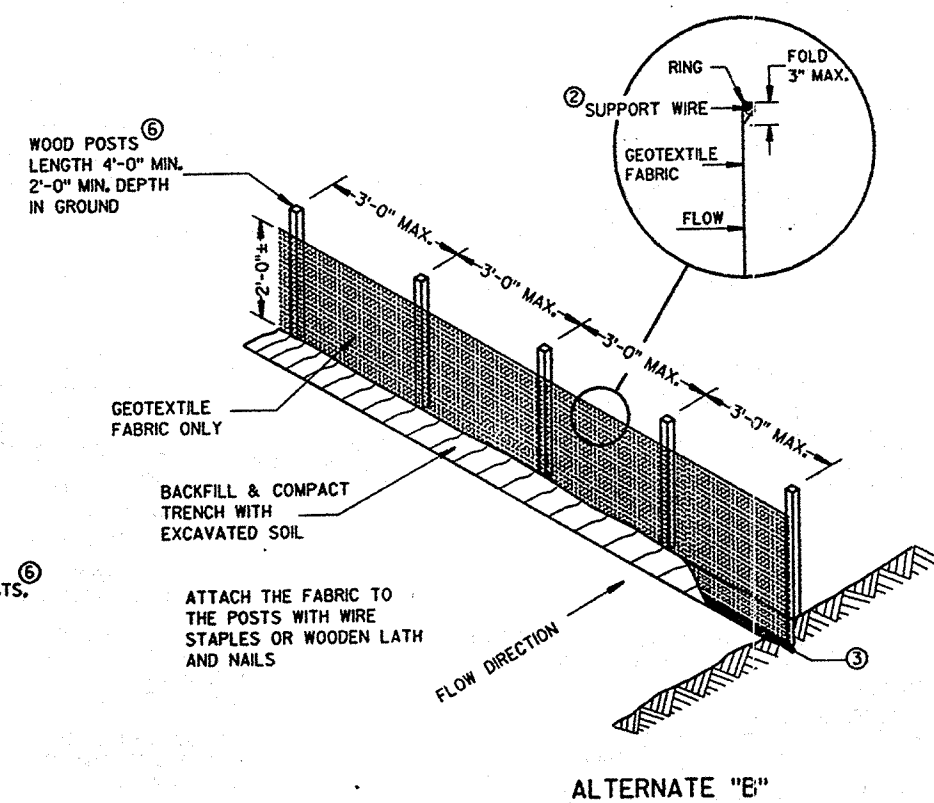
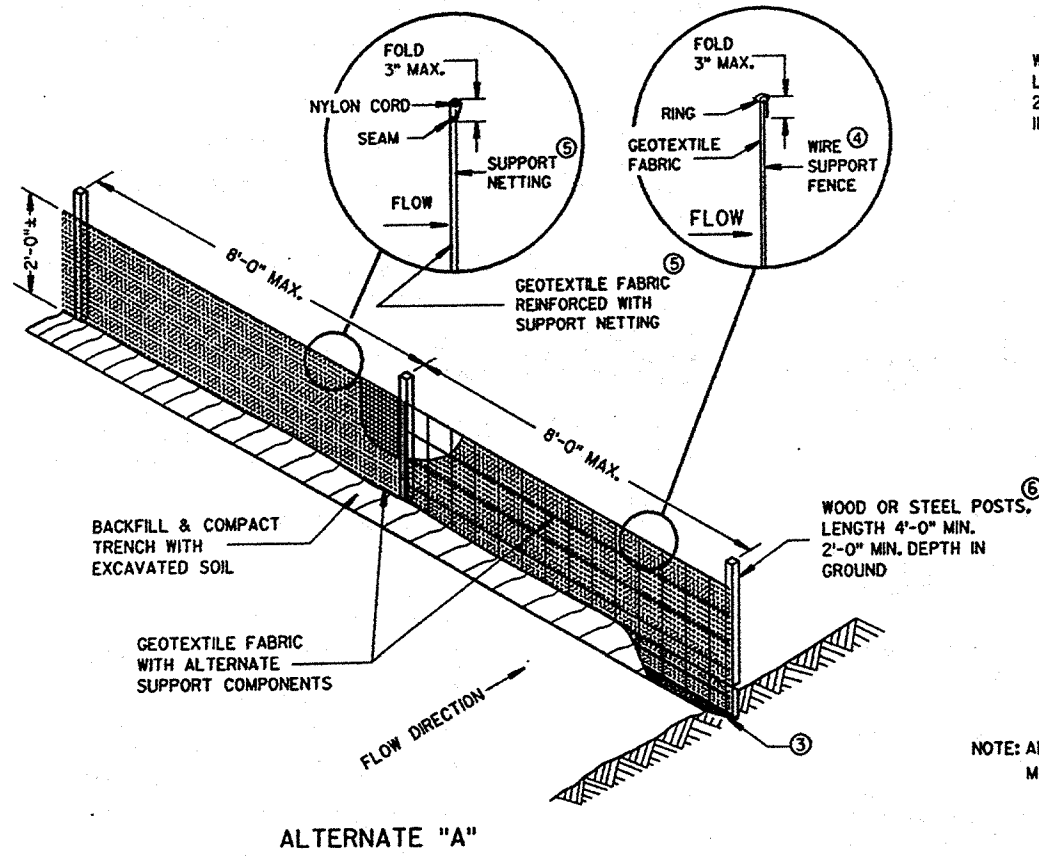
GENERAL NOTES

DETAIL OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

WHEN POSSIBLE THE SILT FENCE SHOULD BE CONSTRUCTED IN AN ARC OR HORSESHOE SHAPE, WITH THE ENDS POINTING UPSLOPE TO MAXIMIZE BOTH STRENGTH AND EFFECTIVENESS.

- CROSS BRACE WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS AS DIRECTED BY THE ENGINEER.
- MINIMUM 14 GAGE WIRE REQUIRED, FOLD FABRIC 3" OVER THE WIRE AND STAPLE OR PLACE WIRE RINGS ON 12" C-C.
- EXCAVATE A TRENCH A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- WIRE SUPPORT FENCE SHALL BE 14 GAGE MINIMUM WOVEN WIRE WITH A MAXIMUM MESH SPACING OF 6". SECURE TOP OF GEOTEXTILE FABRIC TO TOP OF FENCE WITH STAPLES OR WIRE RINGS AT 12" C-C.
- GEOTEXTILE FABRIC SHALL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF 3/4" OR EQUAL. A HEAVY DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED.
- STEEL POSTS SHALL BE STUDDED "TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 128 LBS/LINEAL FOOT (WITHOUT ANCHOR). FIN ANCHORS SUFFICIENT TO RESIST POST MOVEMENT ARE REQUIRED. WOOD POSTS SHALL BE A MINIMUM SIZE OF 4" DIA. OR 1 1/2" X 3 1/2" EXCEPT WOOD POSTS FOR GEOTEXTILE FABRIC REINFORCED WITH NETTING SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OAK OR HICKORY.

ALTERNATES A & B ARE EQUAL AND EITHER MAY BE USED.



NOTE: ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS

SILT FENCE

| | |
|--|--------------------------------|
| SILT FENCE | |
| STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION | |
| APPROVED
8-31-88
DATE | STATE DESIGN ENGINEER FOR HWYS |
| FHWA | |

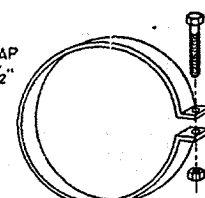
| METAL APRON ENDWALLS | | | | | | | | | | | |
|----------------------|----------------------|-------|---------------------|----------|---------|-------------|--------------------|--------------------|---------|---------------|-------|
| PIPE DIA. (IN.) | MIN. THICK. (Inches) | | DIMENSIONS (Inches) | | | | | | | APPROX. SLOPE | BODY |
| | STEEL | ALUM. | A (±1") | B (MAX.) | H (±1") | L (±1 1/2") | L ₁ (1) | L ₂ (1) | W (±2") | | |
| 12 | .064 | .060 | 6 | 6 | 6 | 21 | 12 | 17 1/2 | 24 | 2 1/2 to 1 | 1 Pc. |
| 15 | .064 | .060 | 7 | 8 | 6 | 26 | 14 | 21 3/4 | 30 | 2 1/2 to 1 | 1 Pc. |
| 18 | .064 | .060 | 8 | 10 | 6 | 31 | 15 | 28 1/4 | 36 | 2 1/2 to 1 | 1 Pc. |
| 21 | .064 | .060 | 9 | 12 | 6 | 36 | 18 | 29 3/8 | 42 | 2 1/2 to 1 | 1 Pc. |
| 24 | .079 | .075 | 10 | 13 | 6 | 41 | 18 | 37 1/4 | 48 | 2 1/2 to 1 | 1 Pc. |
| 30 | .079 | .075 | 12 | 16 | 8 | 51 | 18 | 52 1/4 | 60 | 2 1/2 to 1 | 1 Pc. |
| 36 | .109 | .105 | 14 | 19 | 9 | 60 | 24 | 59 3/4 | 72 | 2 1/2 to 1 | 2 Pc. |
| 42 | .109 | .105 | 16 | 22 | 11 | 69 | 24 | 75 3/8 | 84 | 2 1/2 to 1 | 2 Pc. |
| 48 | .109 | .105 | 18 | 27 | 12 | 78 | 24 | 81 | 90 | 2 1/2 to 1 | 3 Pc. |
| 54 | .109 | .105 | 18 | 30 | 12 | 84 | 30 | 85 1/2 | 102 | 2 1/2 to 1 | 3 Pc. |
| 60 | .109x | .105x | 18 | 33 | 12 | 87 | — | — | 114 | 2 to 1 | 3 Pc. |
| 66 | .109x | .105x | 18 | 36 | 12 | 87 | — | — | 120 | 2 to 1 | 3 Pc. |
| 72 | .109x | .105x | 18 | 39 | 12 | 87 | — | — | 126 | 2 to 1 | 3 Pc. |
| 78 | .109x | .105x | 18 | 42 | 12 | 87 | — | — | 132 | 1 1/2 to 1 | 3 Pc. |
| 84 | .109x | .105x | 18 | 45 | 12 | 87 | — | — | 138 | 1 1/2 to 1 | 3 Pc. |
| 90 | .109x | .105x | 18 | 37 | 12 | 87 | — | — | 144 | 1 1/2 to 1 | 3 Pc. |
| 96 | .109x | .105x | 18 | 35 | 12 | 87 | — | — | 150 | 1 1/2 to 1 | 3 Pc. |

* EXCEPT CENTER PANEL
SEE GENERAL NOTES

| REINFORCED CONCRETE APRON ENDWALLS | | | | | | | | | | | |
|------------------------------------|---------------------|--------|--------|-----------|------------|-----|-------|---------------|--|--|--|
| PIPE DIA. (IN.) | DIMENSIONS (Inches) | | | | | | | APPROX. SLOPE | | | |
| | T | A | B | C | D | E | G | | | | |
| 12 | 2 | 4 | 24 | 48 1/4 | 72 1/4 | 24 | 2 | 3 to 1 | | | |
| 15 | 2 1/4 | 6 | 27 | 46 | 73 | 30 | 2 1/4 | 3 to 1 | | | |
| 18 | 2 1/2 | 9 | 27 | 46 | 73 | 36 | 2 1/2 | 3 to 1 | | | |
| 21 | 2 3/4 | 9 | 36 | 37 1/2 | 73 1/2 | 42 | 2 3/4 | 3 to 1 | | | |
| 24 | 3 | 9 1/2 | 43 1/2 | 30 | 73 1/2 | 48 | 3 | 3 to 1 | | | |
| 27 | 3 1/4 | 10 1/2 | 49 1/2 | 24 | 73 1/2 | 54 | 3 1/4 | 3 to 1 | | | |
| 30 | 3 1/2 | 12 | 54 | 19 1/4 | 73 1/2 | 60 | 3 1/2 | 3 to 1 | | | |
| 36 | 4 | 15 | 63 | 34 1/4 | 97 1/4 | 72 | 4 | 3 to 1 | | | |
| 42 | 4 1/2 | 21 | 63 | 35 | 98 | 78 | 4 1/2 | 3 to 1 | | | |
| 48 | 5 | 24 | 72 | 26 | 98 | 84 | 5 | 3 to 1 | | | |
| 54 | 5 1/2 | 27 | 65 | 33 1/4-35 | 98 1/4-100 | 90 | 5 1/2 | 2 1/2 to 1 | | | |
| 60 | 6 | 30-35 | 60 | 39 | 99 | 96 | 5 | 2 to 1 | | | |
| 66 | 6 1/2 | 24-30 | 72-78 | 21-27 | 99 | 102 | 5 1/2 | 2 to 1 | | | |
| 72 | 7 | 24-36 | 78 | 21 | 99 | 108 | 6 | 2 to 1 | | | |
| 78 | 7 1/2 | 24-36 | 78 | 21 | 99 | 114 | 6 1/2 | 2 to 1 | | | |
| 84 | 8 | 36 | 90 1/2 | 21 | 111 1/2 | 120 | 6 1/2 | 1 1/2 to 1 | | | |
| 90 | 8 1/2 | 41 | 87 1/2 | 24 | 111 1/2 | 132 | 6 1/2 | 1 1/2 to 1 | | | |

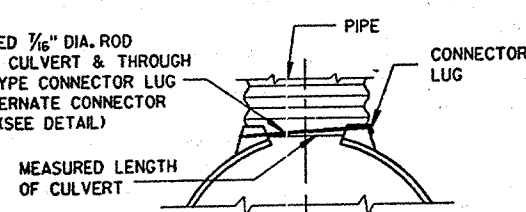
* MINIMUM
** MAXIMUM

1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT



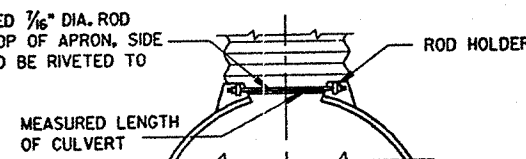
ALTERNATE FOR TYPE 1 CONNECTION
END SECTION CONNECTOR STRAP

THREADED 1/8" DIA. ROD AROUND CULVERT & THROUGH TANK TYPE CONNECTOR LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL)

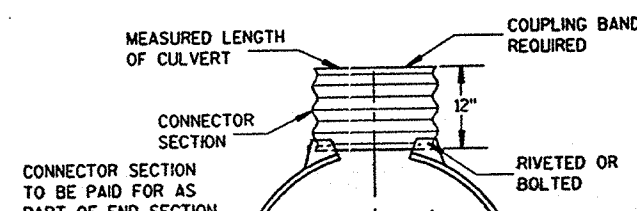


TYPE 1
FOR 12" THRU 24" CORR. PIPE

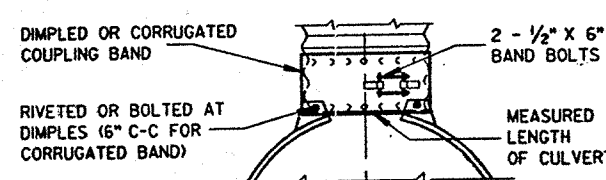
THREADED 1/8" DIA. ROD OVER TOP OF APRON, SIDE LUGS TO BE RIVETED TO APRON



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

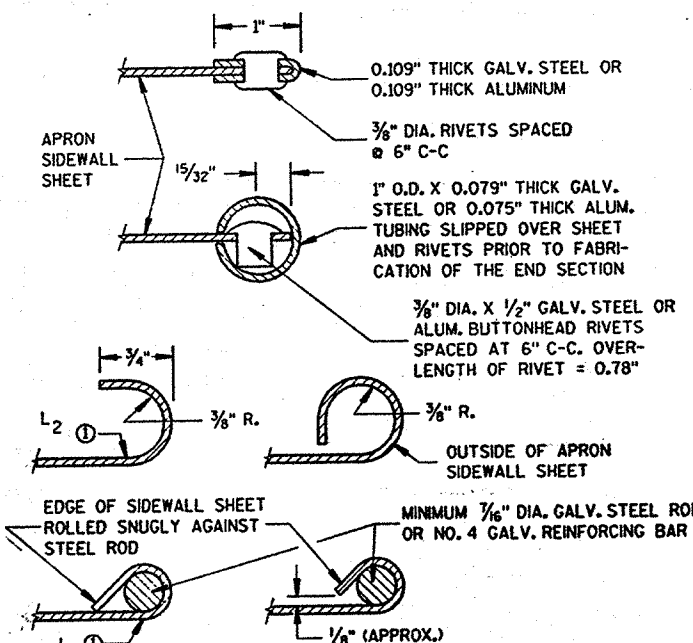
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

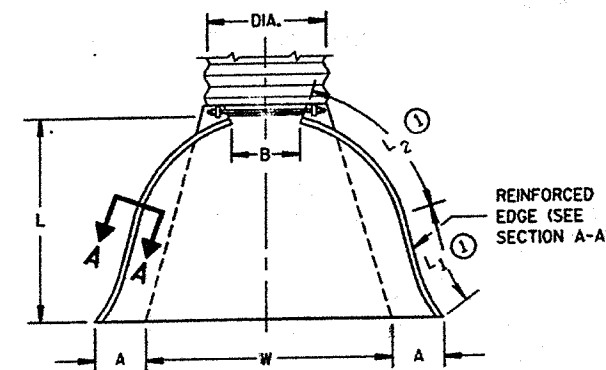
CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VICE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

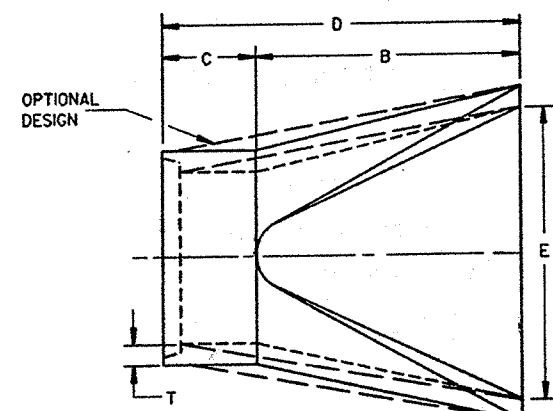
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

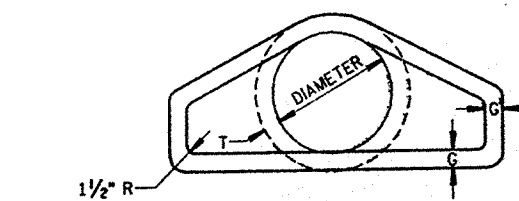
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



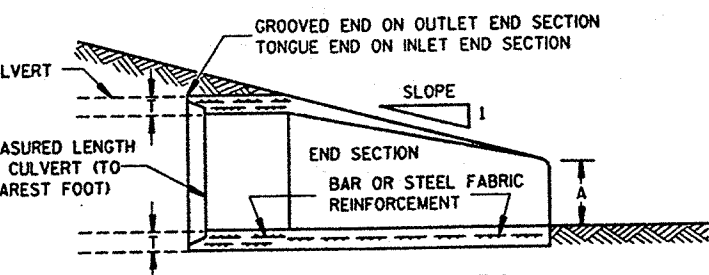
PLAN VIEW



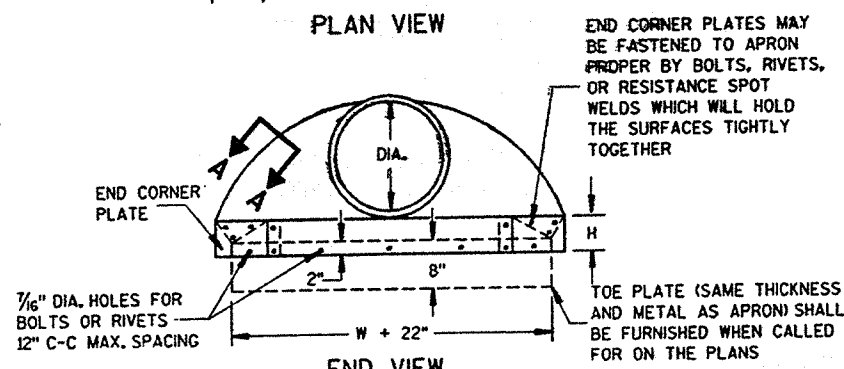
PLAN



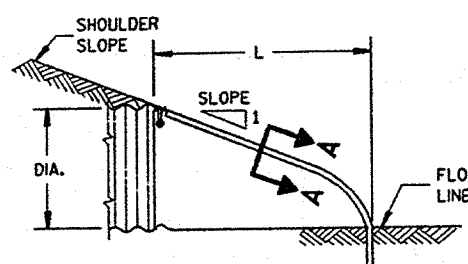
END VIEW



LONGITUDINAL SECTION
CONCRETE ENDWALLS



END VIEW

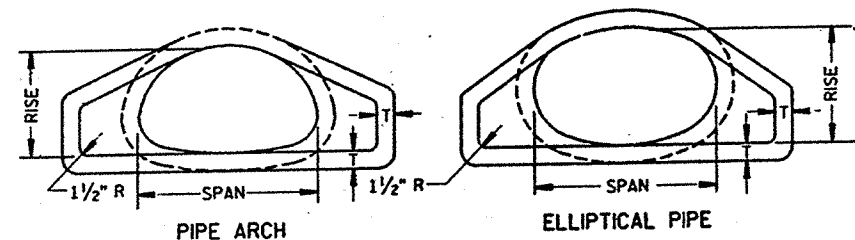


SIDE ELEVATION
METAL ENDWALLS

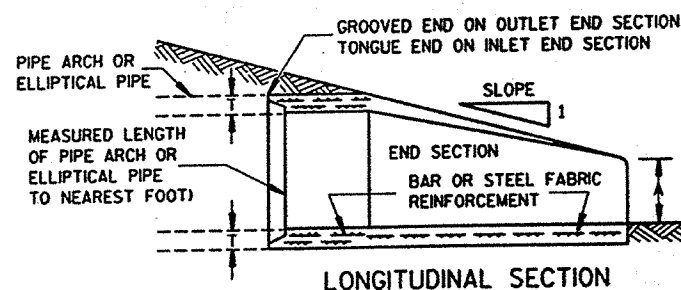
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/17/87
DATE
STATE DESIGN ENGINEER FOR HWYS
FHWA

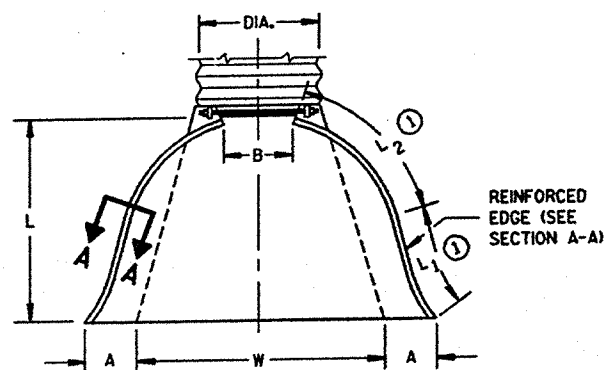


END VIEW

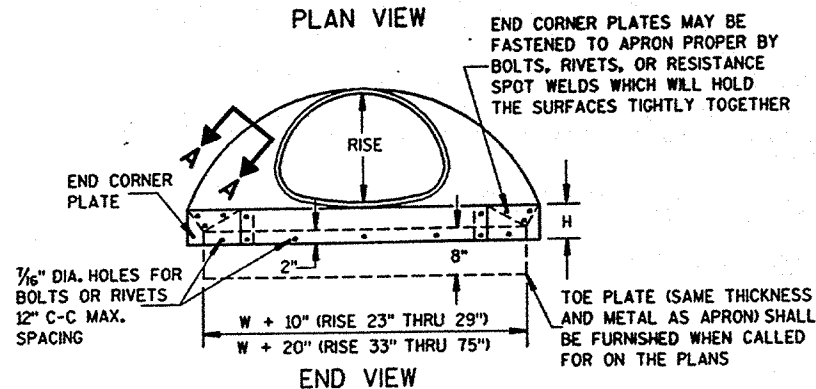


LONGITUDINAL SECTION

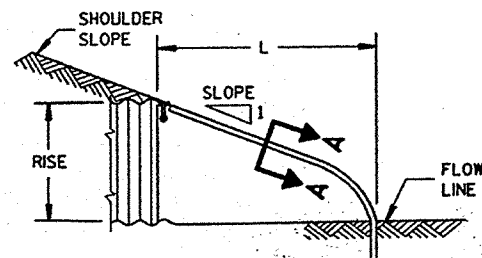
CONCRETE ENDWALLS



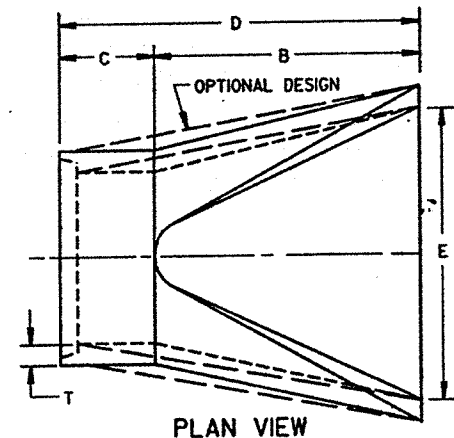
PLAN VIEW



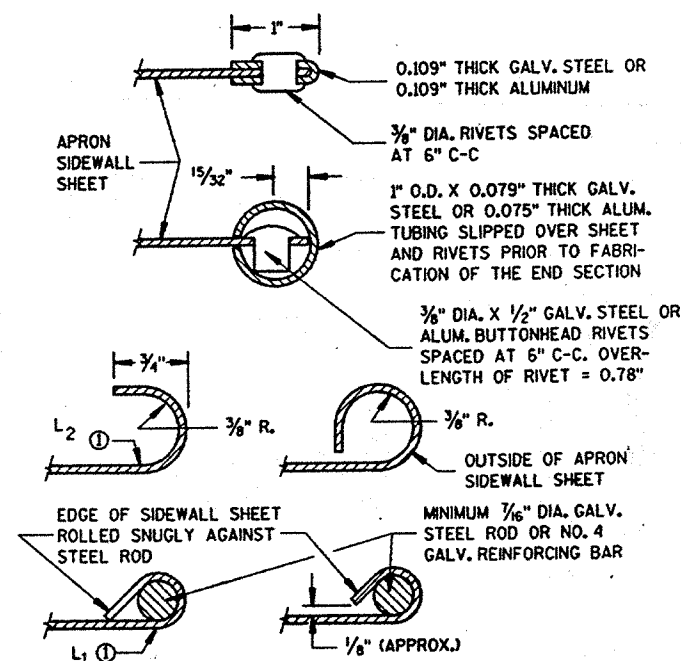
END VIEW



SIDE ELEVATION
METAL ENDWALLS



PLAN VIEW



SECTION A-A

| EQUIV.
DIA.
(Inches) | (Inches) | | MIN. THICK.
(Inches) | | DIMENSIONS (Inches) | | | | | | | | APPROX.
SLOPE | BODY |
|----------------------------|----------|------|-------------------------|-------|---------------------|-------------|------------|----------------|---------|---------|------------|------------|------------------|------|
| | SPAN | RISE | STEEL | ALUM. | A
(±1") | B
(MAX.) | H
(±1") | L
(±1 1/2") | L1
① | L2
① | W
(±2") | | | |
| 15 | 17 | 13 | .064 | .060 | 7 | 9 | 6 | 19 | 14 | 16 | 30 | 2 1/2 to 1 | 1 Pc. | |
| 18 | 21 | 15 | .064 | .060 | 7 | 10 | 6 | 23 | 14 | 19 1/2 | 36 | 2 1/2 to 1 | 1 Pc. | |
| 21 | 24 | 18 | .064 | .060 | 8 | 12 | 6 | 28 | 18 | 21 1/4 | 42 | 2 1/2 to 1 | 1 Pc. | |
| 24 | 28 | 20 | .064 | .060 | 9 | 14 | 6 | 32 | 18 | 27 1/2 | 48 | 2 1/2 to 1 | 1 Pc. | |
| 30 | 35 | 24 | .079 | .075 | 10 | 16 | 6 | 39 | 18 | 37 1/2 | 60 | 2 1/2 to 1 | 1 Pc. | |
| 36 | 42 | 29 | .079 | .075 | 12 | 18 | 8 | 46 | 24 | 45 3/8 | 75 | 2 1/2 to 1 | 1 Pc. | |
| 42 | 49 | 33 | .109 | .105 | 13 | 21 | 9 | 53 | 24 | 54 1/4 | 85 | 2 1/2 to 1 | 2 Pc. | |
| 48 | 57 | 38 | .109 | .105 | 18 | 26 | 12 | 63 | 24 | 68 | 90 | 2 1/2 to 1 | 3 Pc. | |
| 54 | 64 | 43 | .109 | .105 | 18 | 30 | 12 | 70 | 24 | 72 3/4 | 102 | 2 1/2 to 1 | 3 Pc. | |
| 60 | 71 | 47 | .109* | .105* | 18 | 33 | 12 | 77 | 30 | 82 1/4 | 114 | 2 1/2 to 1 | 3 Pc. | |
| 66 | 77 | 52 | .109* | .105* | 18 | 36 | 12 | 77 | — | — | 126 | 2 to 1 | 3 Pc. | |
| 72 | 83 | 57 | .109* | .105* | 18 | 39 | 12 | 77 | — | — | 138 | 2 to 1 | 3 Pc. | |

| EQUIV.
DIA.
(Inches) | (Inches) | | MIN. THICK.
(Inches) | | DIMENSIONS (Inches) | | | | | | | APPROX.
SLOPE | BODY |
|----------------------------|----------|------|-------------------------|-------|---------------------|--------|-------|--------|----------------|----------------|-------|------------------|------|
| | SPAN | RISE | STEEL | ALUM. | A | B | H | L | L ₁ | L ₂ | W | | |
| | | | | | (±1") | (MAX.) | (±1") | (±1½") | ① | ① | (±2") | | |
| 48 | 53 | 41 | .109 | .105 | 18 | 26 | 12 | 63 | 24 | 72¾ | 90 | 2½ to 1 | 2 P |
| 54 | 60 | 46 | .109 | .105 | 18 | 30 | 12 | 70 | 30 | 82¼ | 102 | 2 to 1 | 2 P |
| 60 | 66 | 51 | .109 | .105 | 18 | 33 | 12 | 77 | — | — | 114 | 1½ to 1 | 3 P |
| 66 | 73 | 55 | .109* | .105* | 18 | 36 | 12 | 77 | — | — | 126 | 1½ to 1 | 3 P |
| 72 | 81 | 59 | .109* | .105* | 18 | 39 | 12 | 77 | — | — | 138 | 2 to 1 | 3 P |
| 78 | 87 | 63 | .109* | .105* | 22 | 38 | 12 | 77 | — | — | 148 | 1½ to 1 | 3 P |
| 84 | 95 | 67 | .109* | .105* | 22 | 34 | 12 | 77 | — | — | 162 | 1½ to 1 | 3 P |
| 90 | 103 | 71 | .109* | .105* | 22 | 38 | 12 | 77 | — | — | 174 | 1½ to 1 | 3 P |
| 96 | 112 | 75 | .109* | .105* | 24 | 40 | 12 | 77 | — | — | 174 | 1½ to 1 | 3 P |

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

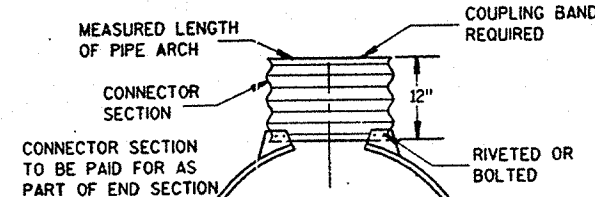
* EXCEPT CENTER PANEL
SEE GENERAL NOTES



MEASURED LENGTH
OF PIPE ARCH

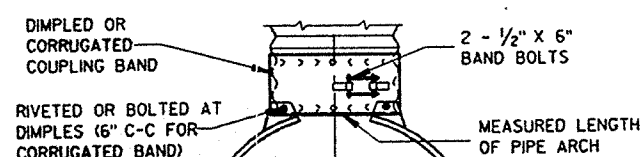
TYPE 2

FOR 17\" x 13\" THRU 112\" x 75\" PIPE ARCH



TYPE 3

FOR 64\" x 43\" THRU 112\" x 75\" PIPE ARCH



TYPE 5

ALTERNATE FOR:
ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL,
AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

REINFORCED CONCRETE PIPE ARCH

| EQUIV.
DIA.
(Inches) | DIMENSIONS (Inches) | | | | | | | | APPROX.
SLOPE |
|----------------------------|---------------------|---------|-------|---------|----|----|-----|-----|------------------|
| | ** SPAN | ** RISE | T | A | B | C | D | E | |
| 24 | 29 | 18 | 3 | 8 1/2 | 39 | 33 | 72 | 48 | 3 to 1 |
| 30 | 36 | 22 | 3 1/2 | 9 1/2 | 50 | 46 | 96 | 60 | 3 to 1 |
| 36 | 44 | 27 | 4 | 11 1/8 | 60 | 36 | 96 | 72 | 3 to 1 |
| 42 | 51 | 31 | 4 1/2 | 15 1/16 | 60 | 36 | 96 | 78 | 3 to 1 |
| 48 | 58 | 36 | 5 | 21 | 60 | 36 | 96 | 84 | 3 to 1 |
| 54 | 65 | 40 | 5 1/2 | 25 1/2 | 60 | 36 | 96 | 90 | 3 to 1 |
| 60 | 73 | 45 | 6 | 31 | 60 | 36 | 96 | 96 | 3 to 1 |
| 72 | 88 | 54 | 7 | 31 | 60 | 39 | 99 | 120 | 2 to 1 |
| 84 | 102 | 62 | 8 | 28 1/2 | 83 | 19 | 102 | 144 | 2 to 1 |

REINFORCED CONCRETE ELLIPTICAL PIPE

| EQUIV. DIA.
(Inches) | DIMENSIONS (Inches) | | | | | | | | APPROX. SLOPE |
|-------------------------|---------------------|---------|-------|--------|----|----|----|----|---------------|
| | ** SPAN | ** RISE | T | A | B | C | D | E | |
| 24 | 30 | 19 | 3 1/4 | 8 1/2 | 39 | 33 | 72 | 48 | 3 to 1 |
| 30 | 38 | 24 | 3 3/4 | 9 1/2 | 54 | 18 | 72 | 60 | 3 to 1 |
| 36 | 45 | 29 | 4 1/2 | 11 1/8 | 60 | 24 | 84 | 72 | 2 1/2 to 1 |
| 42 | 53 | 34 | 5 | 15 1/4 | 60 | 36 | 96 | 78 | 2 1/2 to 1 |
| 48 | 60 | 38 | 5 1/2 | 21 | 60 | 36 | 96 | 84 | 2 1/2 to 1 |
| 54 | 68 | 43 | 6 | 25 1/2 | 60 | 36 | 96 | 90 | 2 1/2 to 1 |
| 60 | 76 | 48 | 6 1/2 | 30 | 60 | 36 | 96 | 96 | 2 1/2 to 1 |

** NOMINAL SIZE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 71\" x 47\" PIPE ARCH AND LARGER SHALL HAVE 0.109\" SIDES AND 0.138\" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 71\" x 47\" PIPE ARCH AND LARGER SHALL HAVE 0.105\" SIDES AND 0.134\" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77\" x 52\" THROUGH 112\" x 75\" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73\" x 45\" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

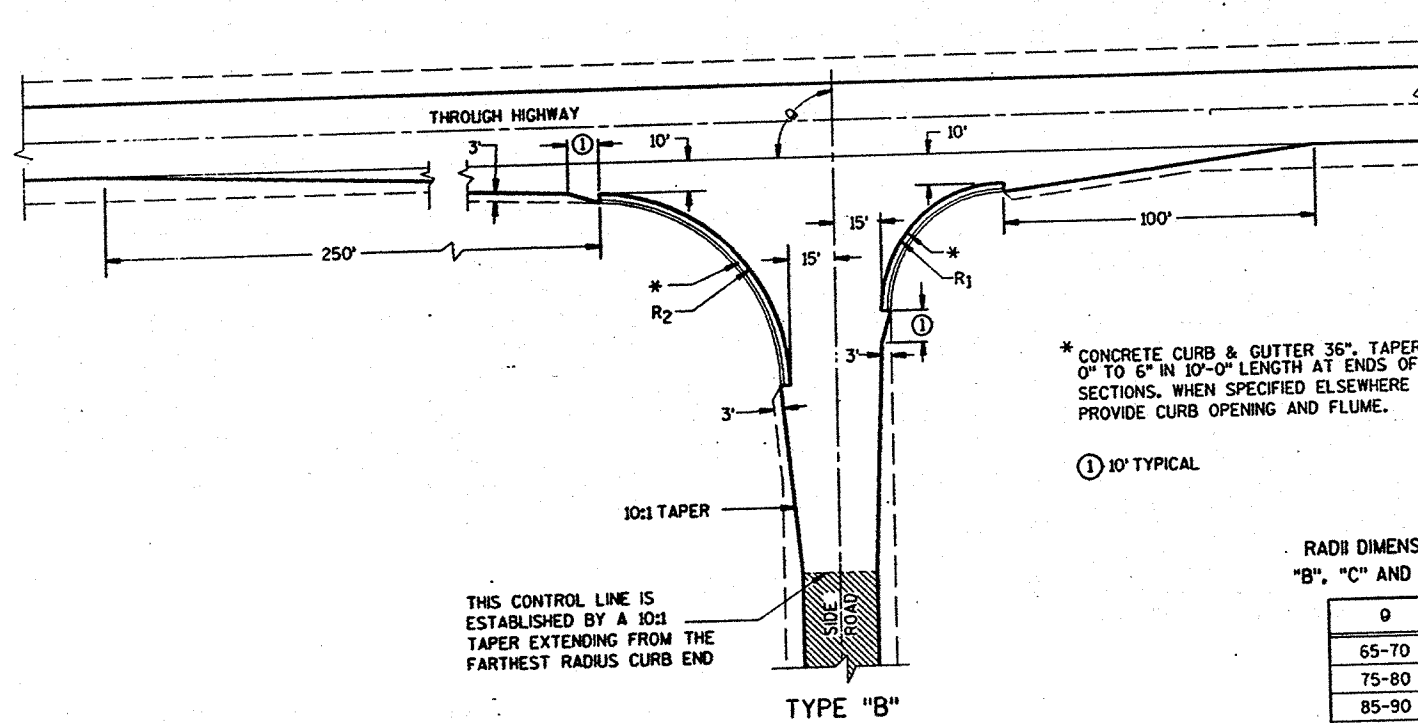
APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/17/87
DATE

STATE DESIGN ENGINEER FOR HWYS

FWHA

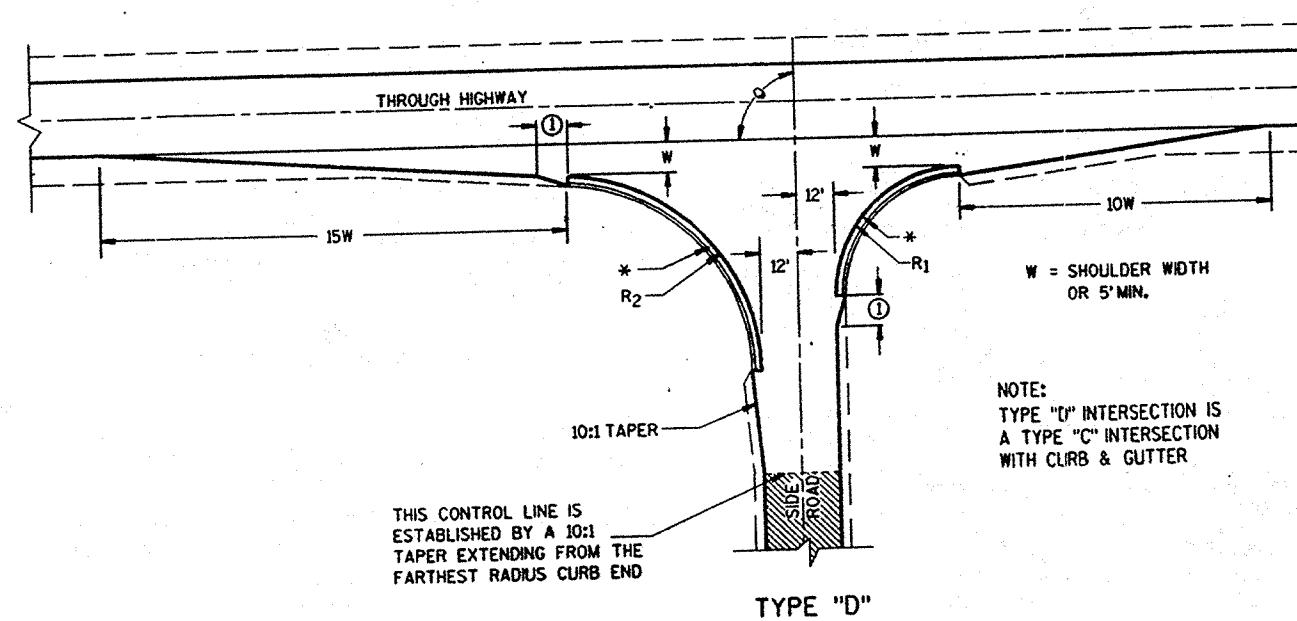
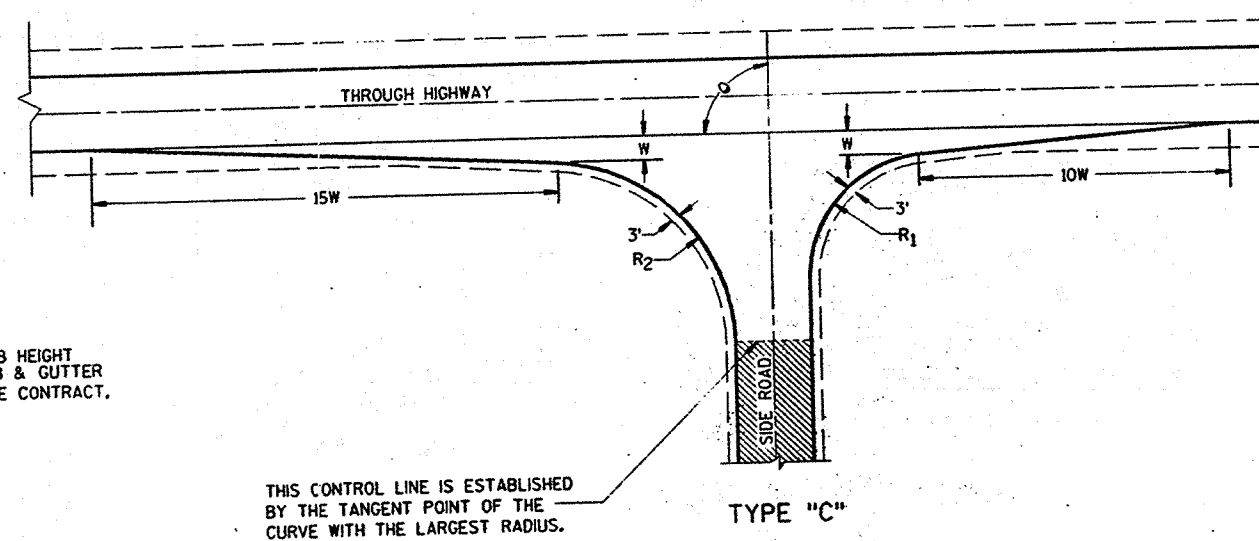


* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

① 10' TYPICAL

RADI DIMENSIONS FOR TYPES "B", "C" AND "D" INTERSECTIONS

| Q | R ₁ | R ₂ |
|---------|----------------|----------------|
| 65-70 | 35 | 70 |
| 75-80 | 40 | 70 |
| 85-90 | 40 | 60 |
| 100 | 50 | 55 |
| 105-110 | 60 | 45 |



W = SHOULDER WIDTH OR 5' MIN.

NOTE:
TYPE "D" INTERSECTION IS A TYPE "C" INTERSECTION WITH CURB & GUTTER

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING SURFACE

AT-GRADE SIDE ROAD
INTERSECTION, TYPES "B", "C" AND "D"

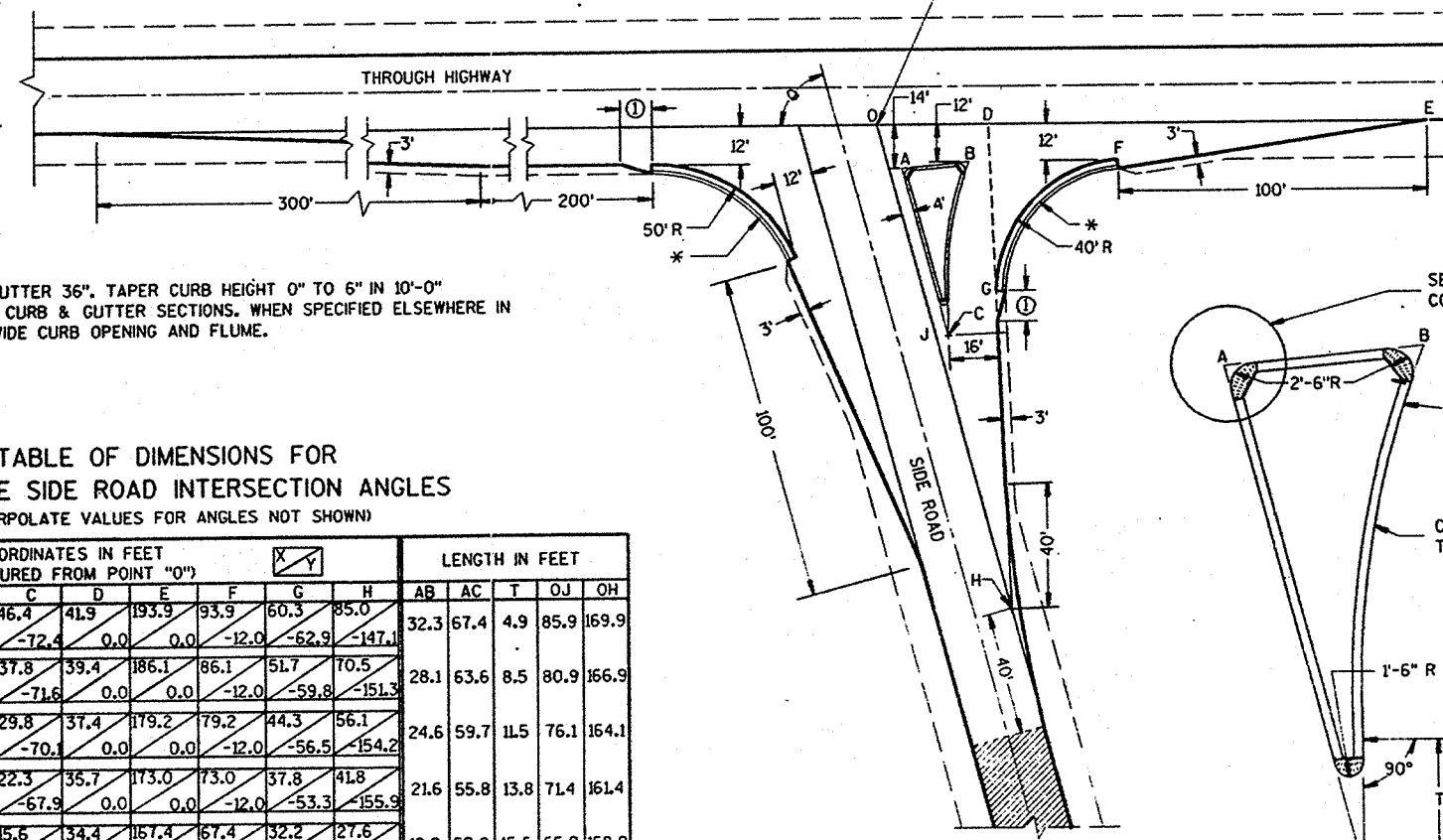
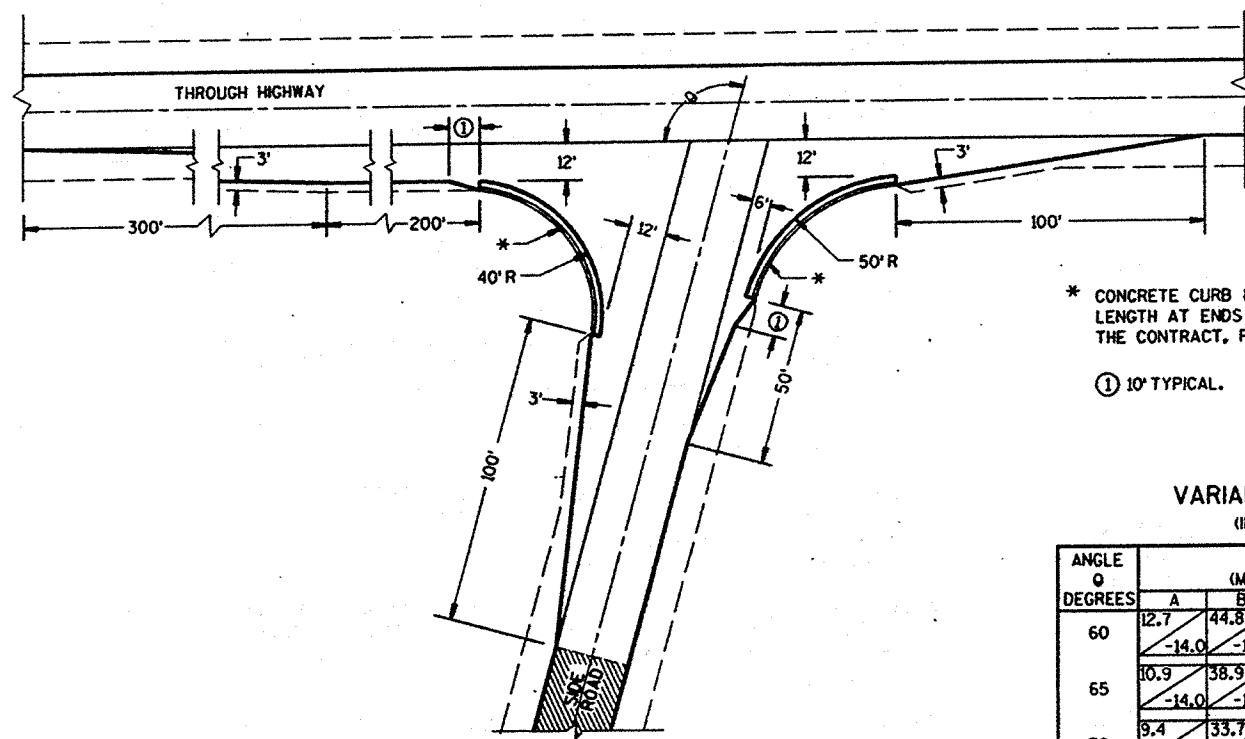
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/22/89
DATE

STATE DESIGN ENGINEER FOR HWYS

FHWA

S.D.D. 9 A 1-80



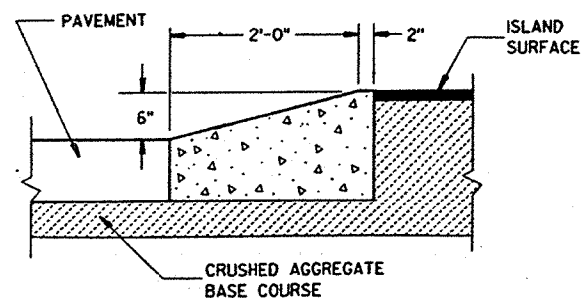
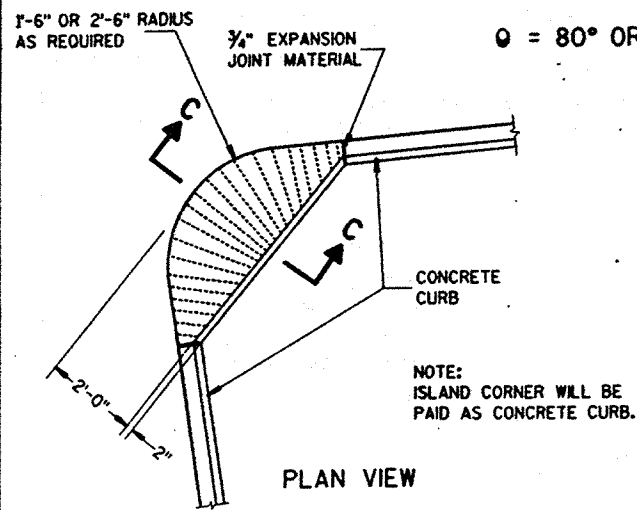
* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

① 10' TYPICAL.

TABLE OF DIMENSIONS FOR
VARIABLE SIDE ROAD INTERSECTION ANGLES
(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

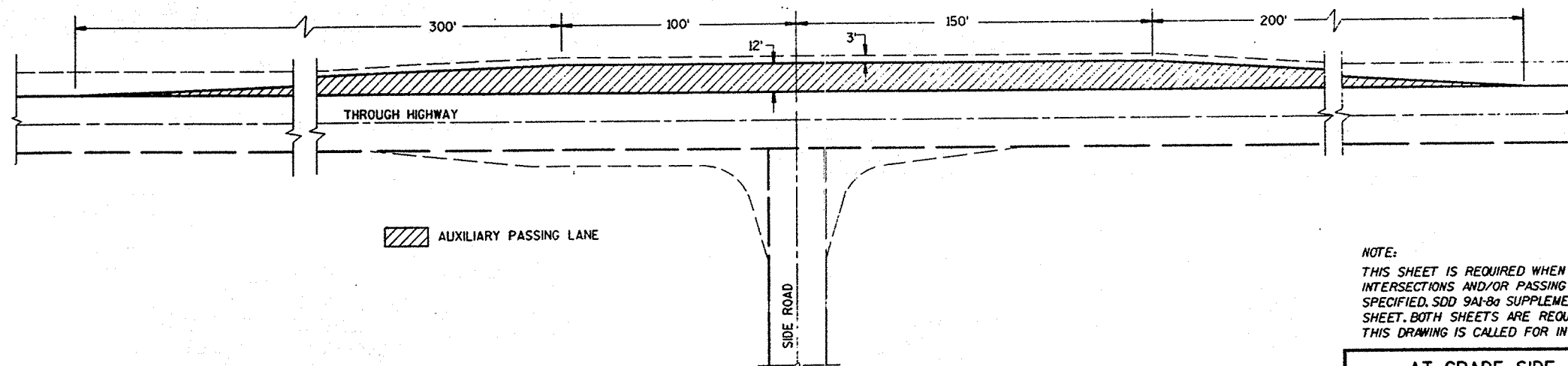
| ANGLE
θ
DEGREES | COORDINATES IN FEET
(MEASURED FROM POINT "O") | | | | | | | | LENGTH IN FEET | | | | |
|-----------------------|--|------|------|------|-------|------|------|------|----------------|------|------|------|-------|
| | A | B | C | D | E | F | G | H | AB | AC | T | OJ | OH |
| 60 | 12.7 | 44.8 | 46.4 | 41.9 | 193.9 | 93.9 | 60.3 | 85.0 | 32.3 | 67.4 | 4.9 | 85.9 | 169.9 |
| 65 | 10.9 | 38.9 | 37.8 | 39.4 | 186.1 | 86.1 | 51.7 | 70.5 | 28.1 | 63.6 | 8.5 | 80.9 | 166.9 |
| 70 | 9.4 | 33.7 | 29.8 | 37.4 | 179.2 | 79.2 | 44.3 | 56.1 | 24.6 | 59.7 | 11.5 | 76.1 | 164.1 |
| 75 | 7.9 | 29.2 | 22.3 | 35.7 | 173.0 | 73.0 | 37.8 | 41.8 | 21.6 | 55.8 | 13.8 | 71.4 | 161.4 |
| 80 | 6.5 | 25.2 | 15.6 | 34.4 | 167.4 | 67.4 | 32.2 | 27.6 | 18.9 | 52.0 | 15.6 | 66.9 | 158.9 |

TYPE "A" SIDE ROAD INTERSECTION DETAILS



SECTION C-C

ISLAND CORNER DETAIL
(TO BE CONSTRUCTED AT ALL ISLAND CORNERS)

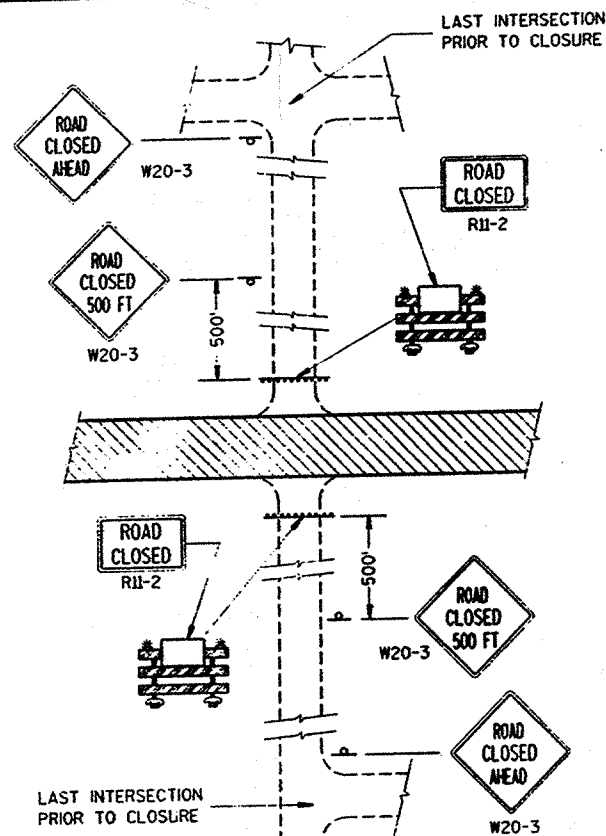


PASSING LANE DETAIL

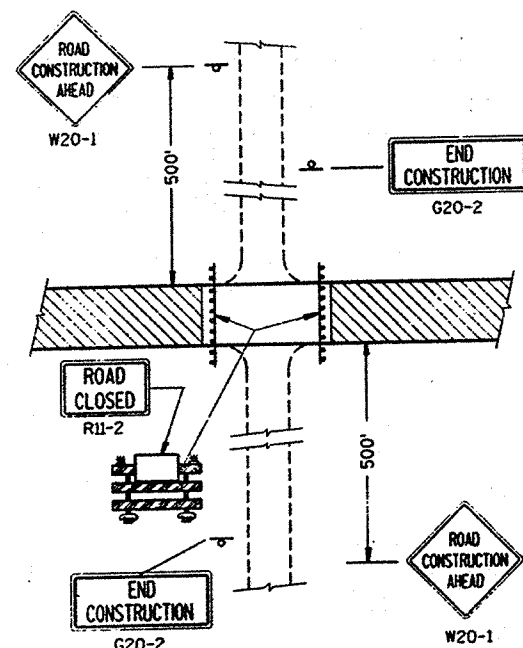
NOTE:
THIS SHEET IS REQUIRED WHEN TYPE "A" INTERSECTIONS AND/OR PASSING LANES ARE SPECIFIED. SDD 9A1-8a SUPPLEMENTS THIS SHEET. BOTH SHEETS ARE REQUIRED WHEN THIS DRAWING IS CALLED FOR IN THE PLANS.

AT-GRADE SIDE ROAD
INTERSECTION, TYPE "A"
AND PASSING LANE

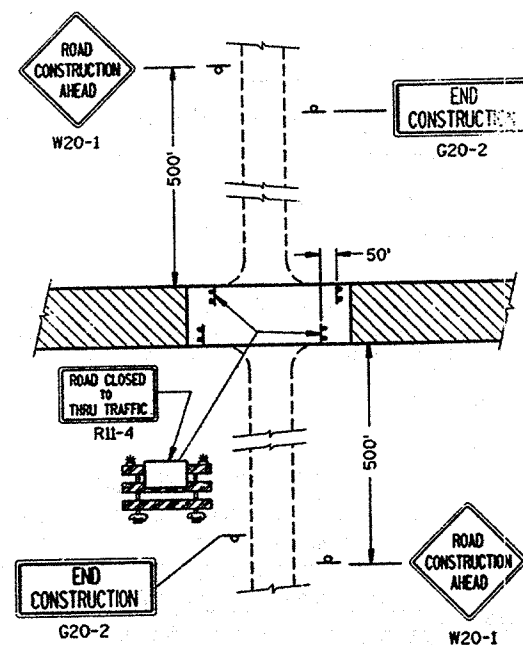
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



DETAIL 1
(NO ACCESS TO PROJECT)

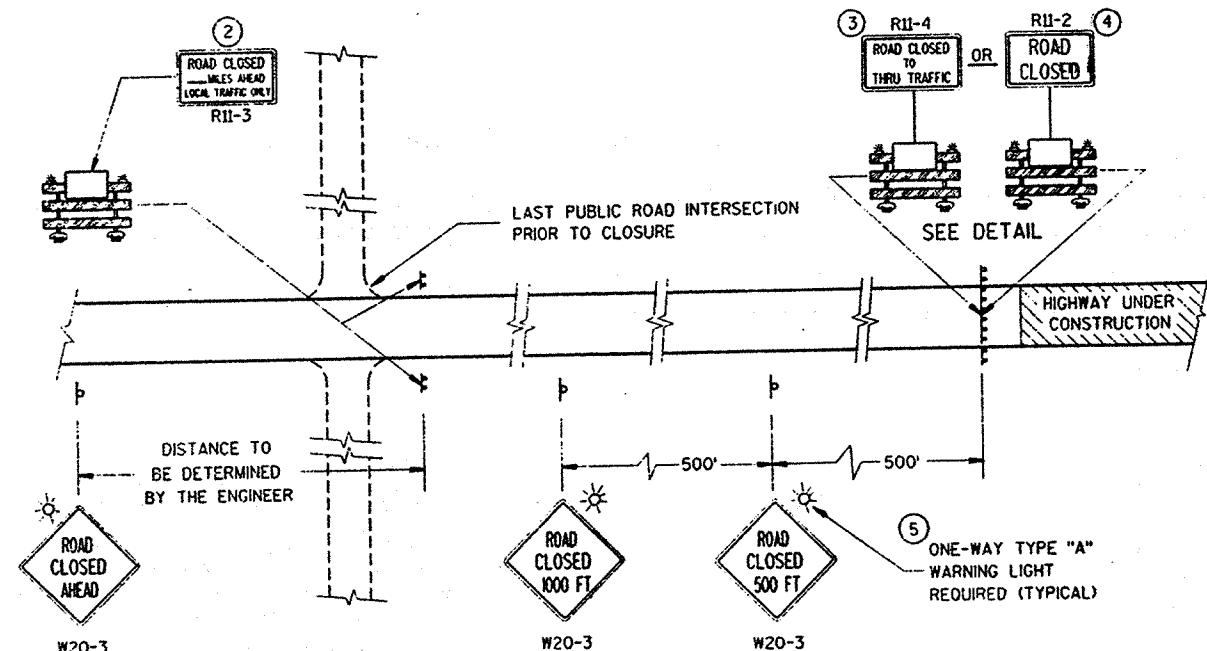


DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT).

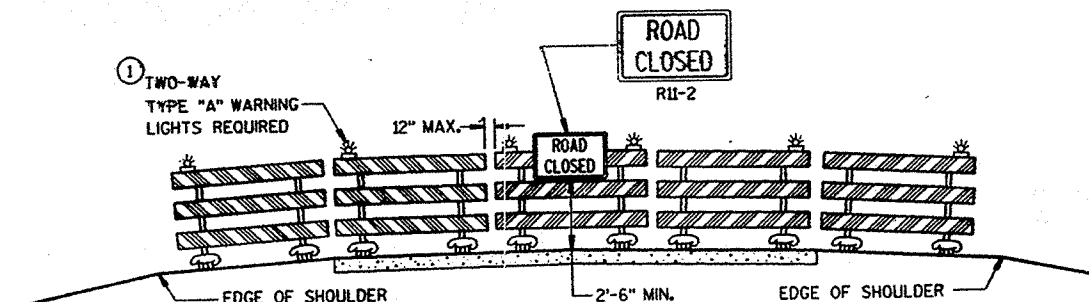


DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR,
LOCAL BUSINESS AND RESIDENT ACCESS).

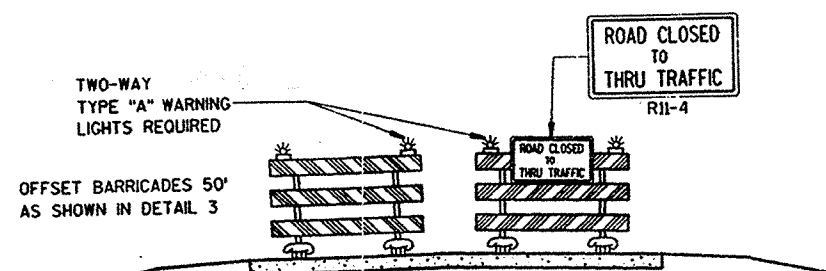
SIDEROAD CLOSURES



MAINLINE CLOSURE



ROAD CLOSURE BARRICADE DETAIL



LANE CLOSURE BARRICADE DETAIL

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND THEIR LOCATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE WISCONSIN MANUAL OF TRAFFIC CONTROL DEVICES, THE PLANS, SPECIFICATIONS AND CONTRACT.

SIGN AND BARRICADE LOCATIONS MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER. ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS WORK SHALL BE COVERED AS DIRECTED BY THE ENGINEER. ALL "STOP" OR OTHER REGULATORY SIGNS ON THE SIDE ROADS SHALL NOT BE DISTURBED, EXCEPT WHEN NECESSARY TO COMPLETE THE WORK. THE SIGNS MUST THEN BE IMMEDIATELY REESTABLISHED.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL FOR FULL ROAD CLOSURES. TYPE "A" LOW INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE ROAD CLOSED SIGN (R11-2), ROAD CLOSED — MILES AHEAD SIGN (R11-3) AND THE ROAD CLOSED TO THRU TRAFFIC SIGN (R11-4) SHALL BE ATTACHED ONLY TO THE TOP RAIL OF THE TYPE III BARRICADE. THE SIGNS SHALL NOT COVER MIDDLE RAIL.

TYPE "H" REFLECTIVE SHEETING SHALL BE USED ON ALL BARRICADES, TYPE I, II AND III, AND ON ALL R11-2, R11-3 AND R11-4 SIGNS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2, "ROAD CLOSED" SIGNS SHALL BE 48" X 30".

R11-3, AND R11-4 SIGNS SHALL BE 60" X 30".

G20-2 SIGNS SHALL BE 60" X 24".

- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND AT LEAST ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN.
- 2 THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- 3 FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT. SEE LANE CLOSURE BARRICADE DETAIL.
- 4 FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT. SEE ROAD CLOSURE BARRICADE DETAIL.
- 5 ONE-WAY LIGHTS SHALL BE PROVIDED ON ALL ADVANCE WARNING SIGNS. THE UNIT SHALL BE POSITIONED SUCH THAT THE LIGHT SOURCE IS OUTSIDE THE SIGN FACE AND AT THE TOP OF THE SIGN.

LEGEND

- POST MOUNTED WARNING SIGN
- TYPE III BARRICADES WITH TYPE "H" REFLECTIVE SHEETING
- TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- WORK AREA

**BARRICADES AND TRAFFIC
CONTROL FOR
ROAD CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

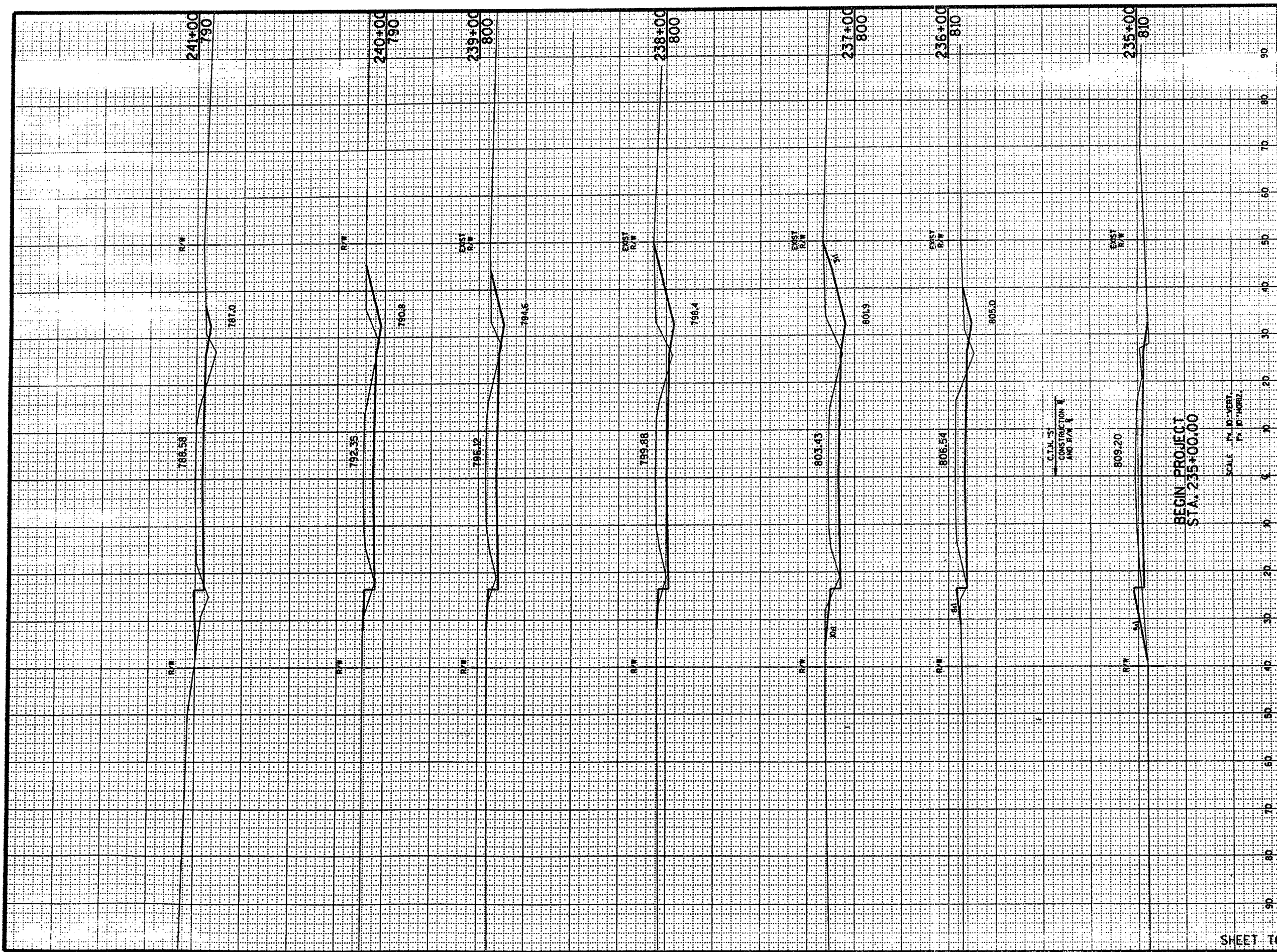
APPROVED

10-31-89
DATE

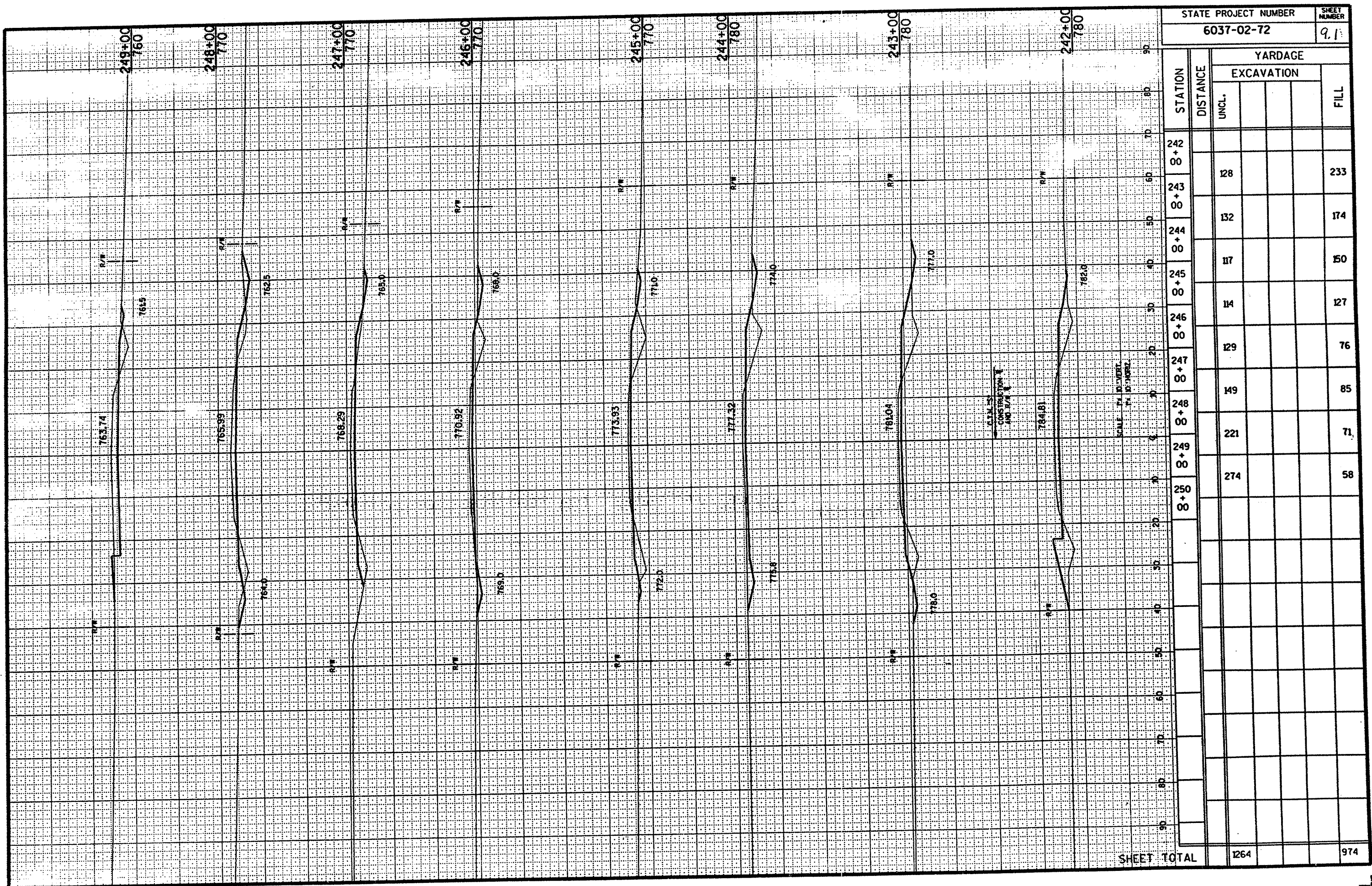
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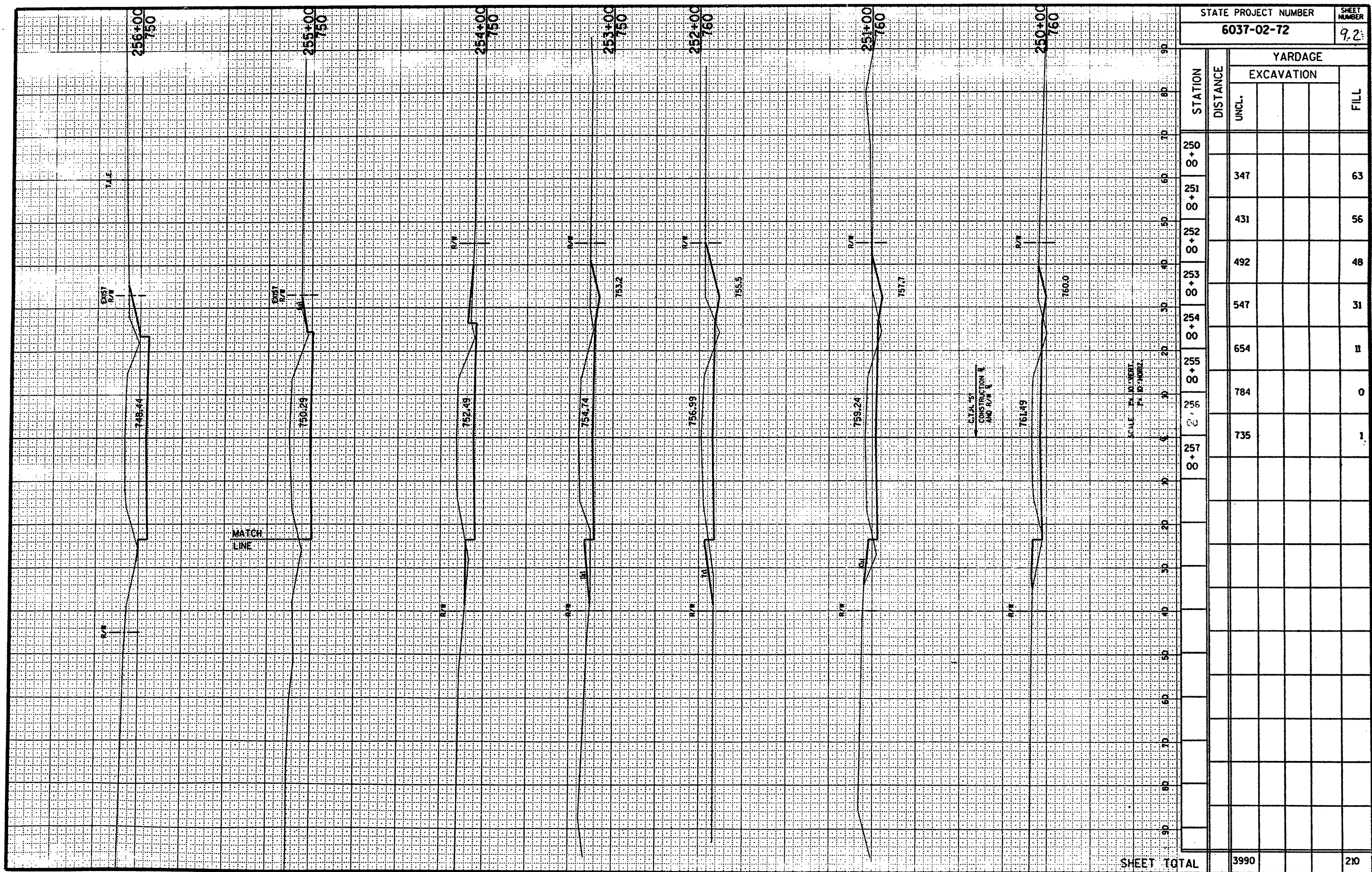
STATE TRAFFIC ENGINEER FOR HWYS

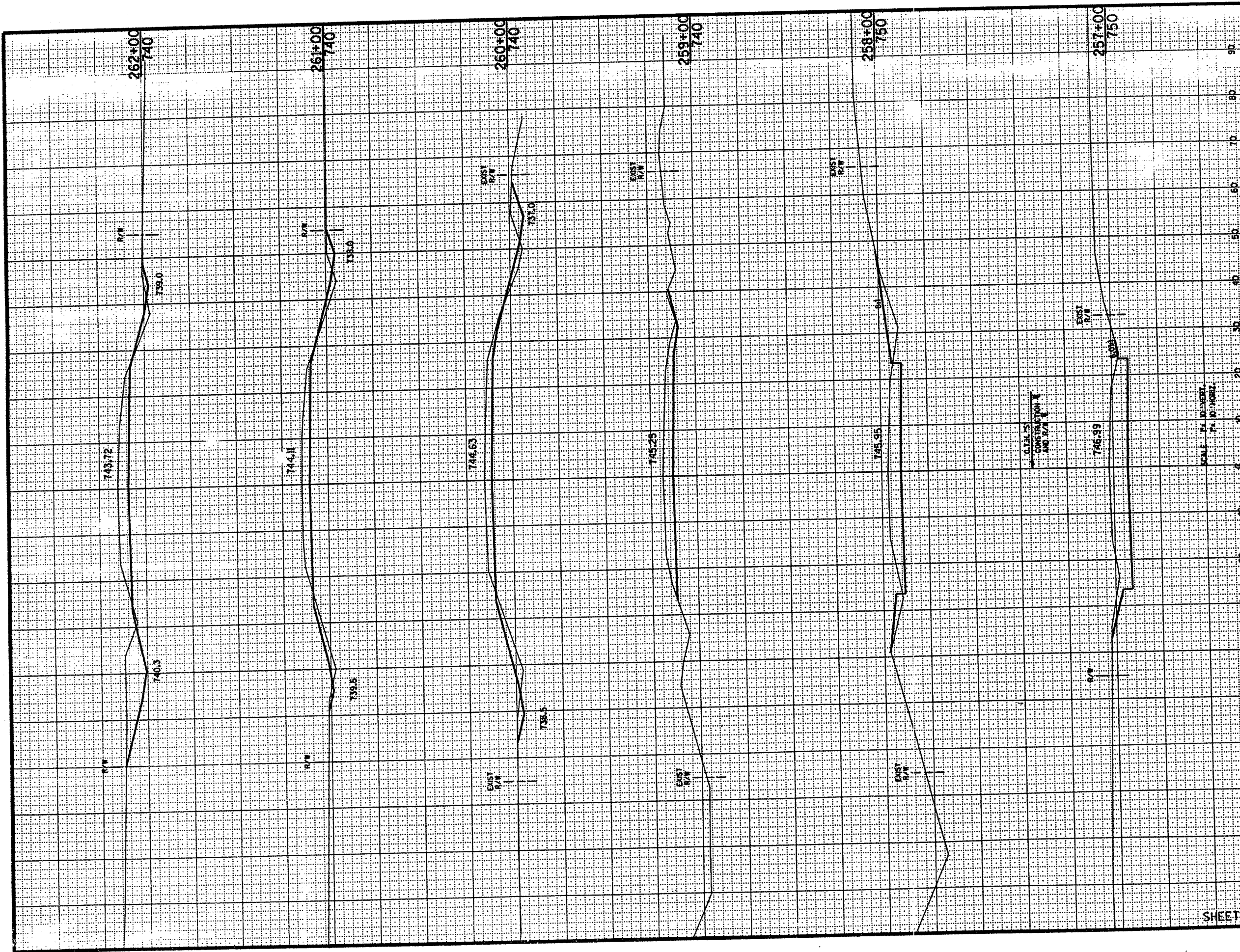
S.D.D. 15 C 2-2



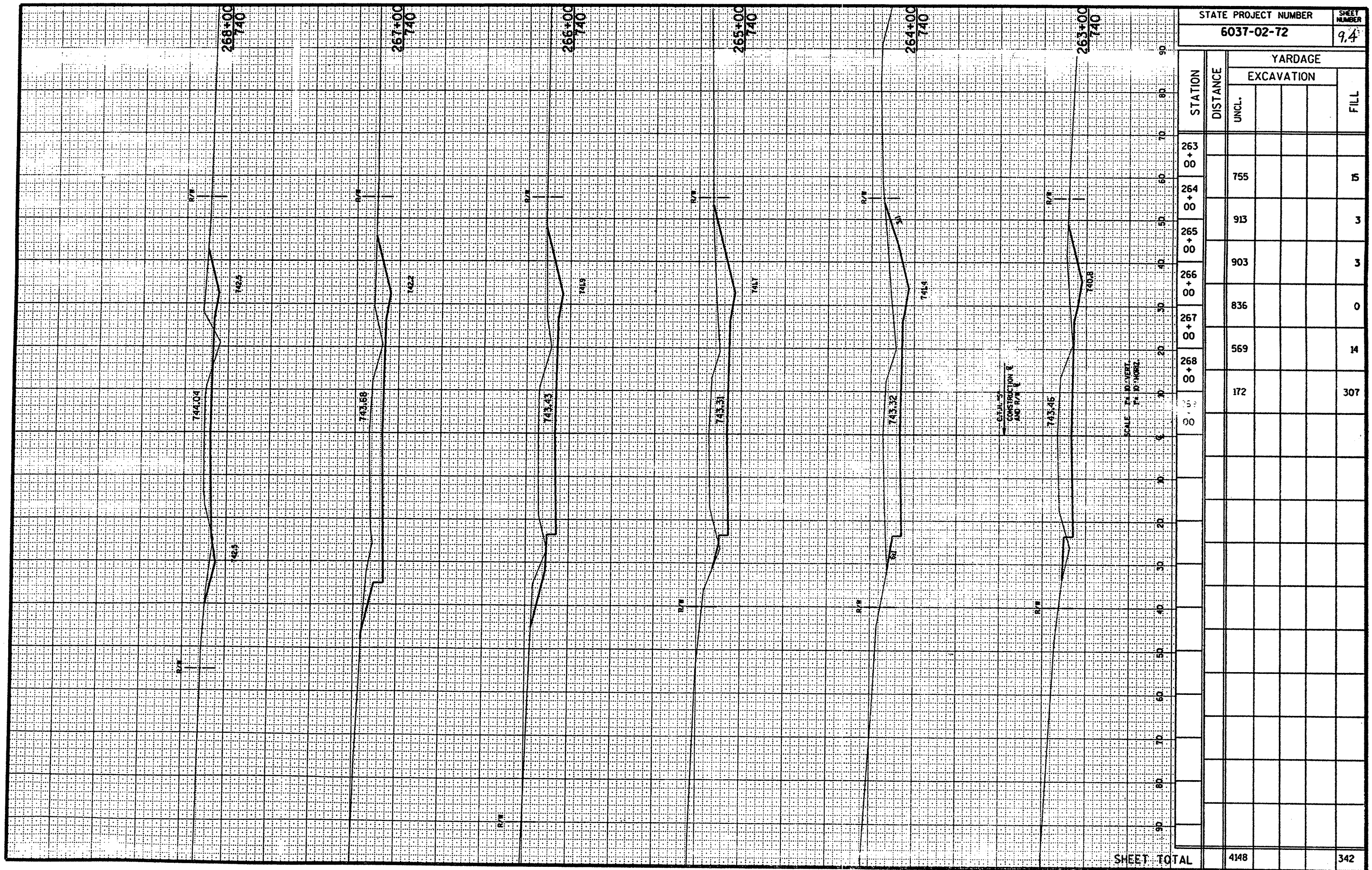
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| | | EXCAVATION | | | FILL |
| | | UNCL. | | | |
| 235 + 00 | | | | | |
| 236 + 00 | | 266 | | | 48 |
| 237 + 00 | | 413 | | | 20 |
| 238 + 00 | | 492 | | | 8 |
| 239 + 00 | | 448 | | | 9 |
| 240 + 00 | | 393 | | | 13 |
| 241 + 00 | | 297 | | | 68 |
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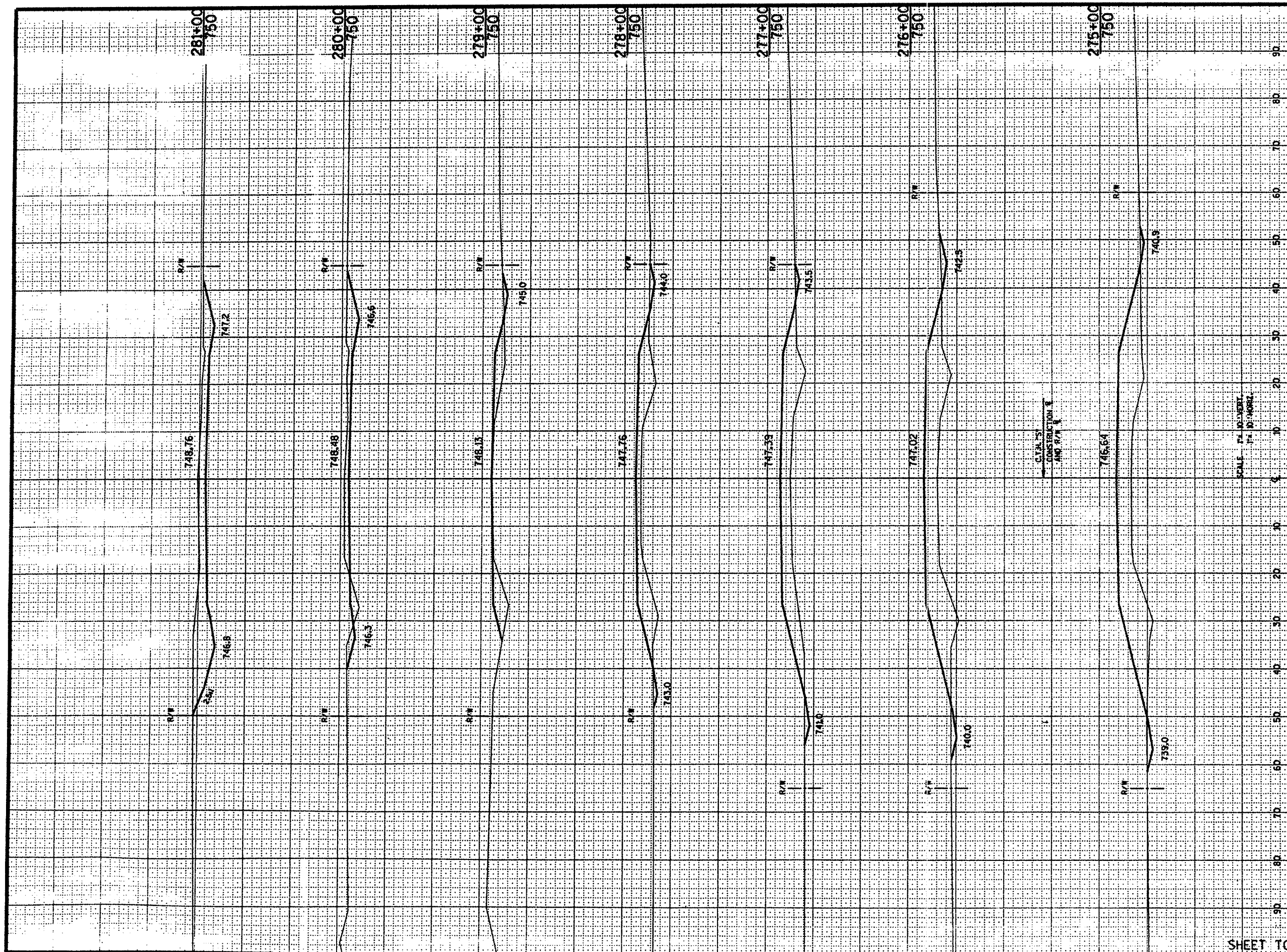




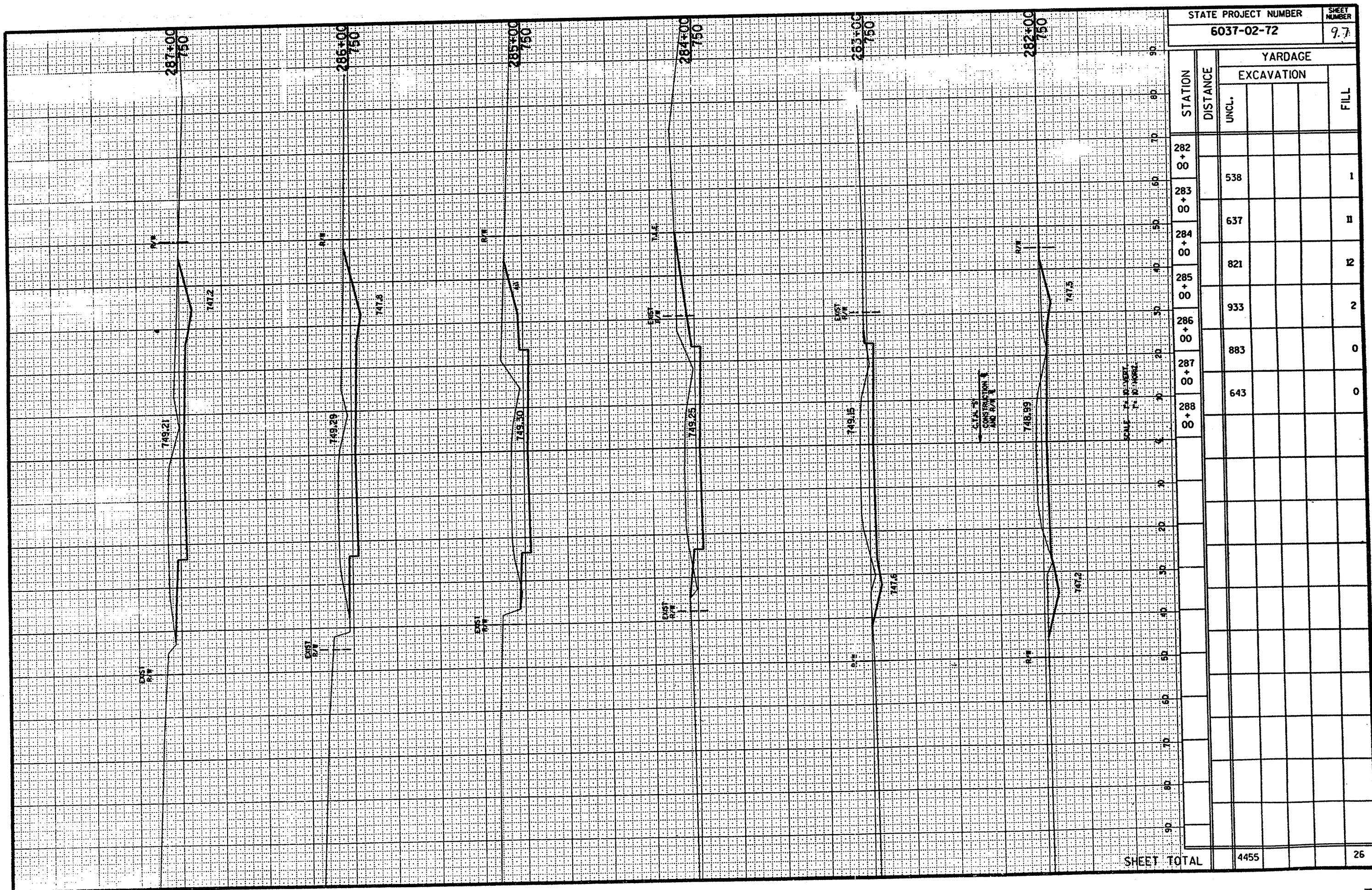
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| | | EXCAVATION | | | FILL |
| | | UNCL. | | | |
| 257 + 00 | | | | | |
| 258 + 00 | | 528 | | | 62 |
| 259 + 00 | | 487 | | | 61 |
| 260 + 00 | | 370 | | | 46 |
| 261 + 00 | | 313 | | | 81 |
| 262 + 00 | | 439 | | | 59 |
| 263 + 00 | | 597 | | | 37 |
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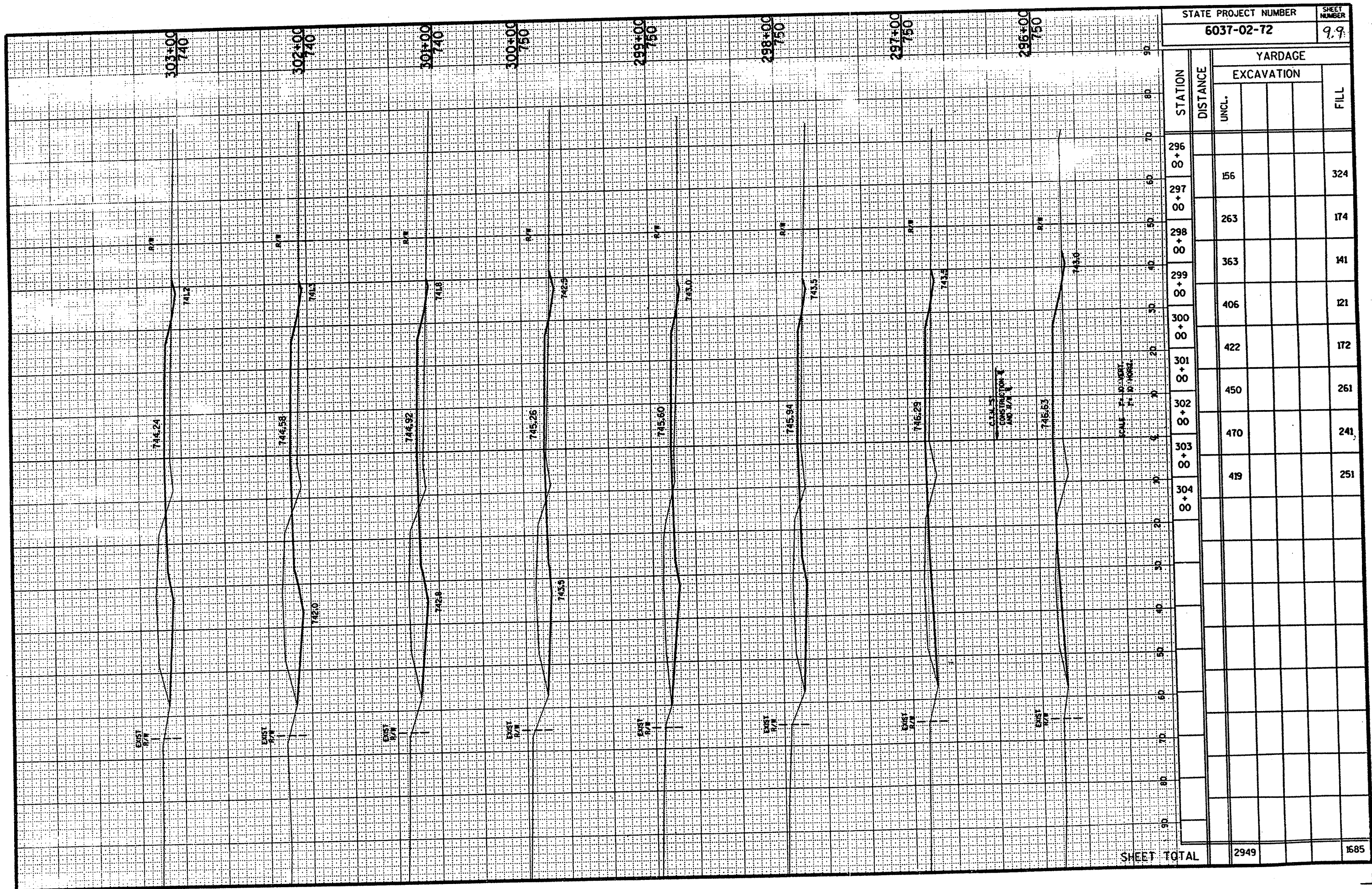


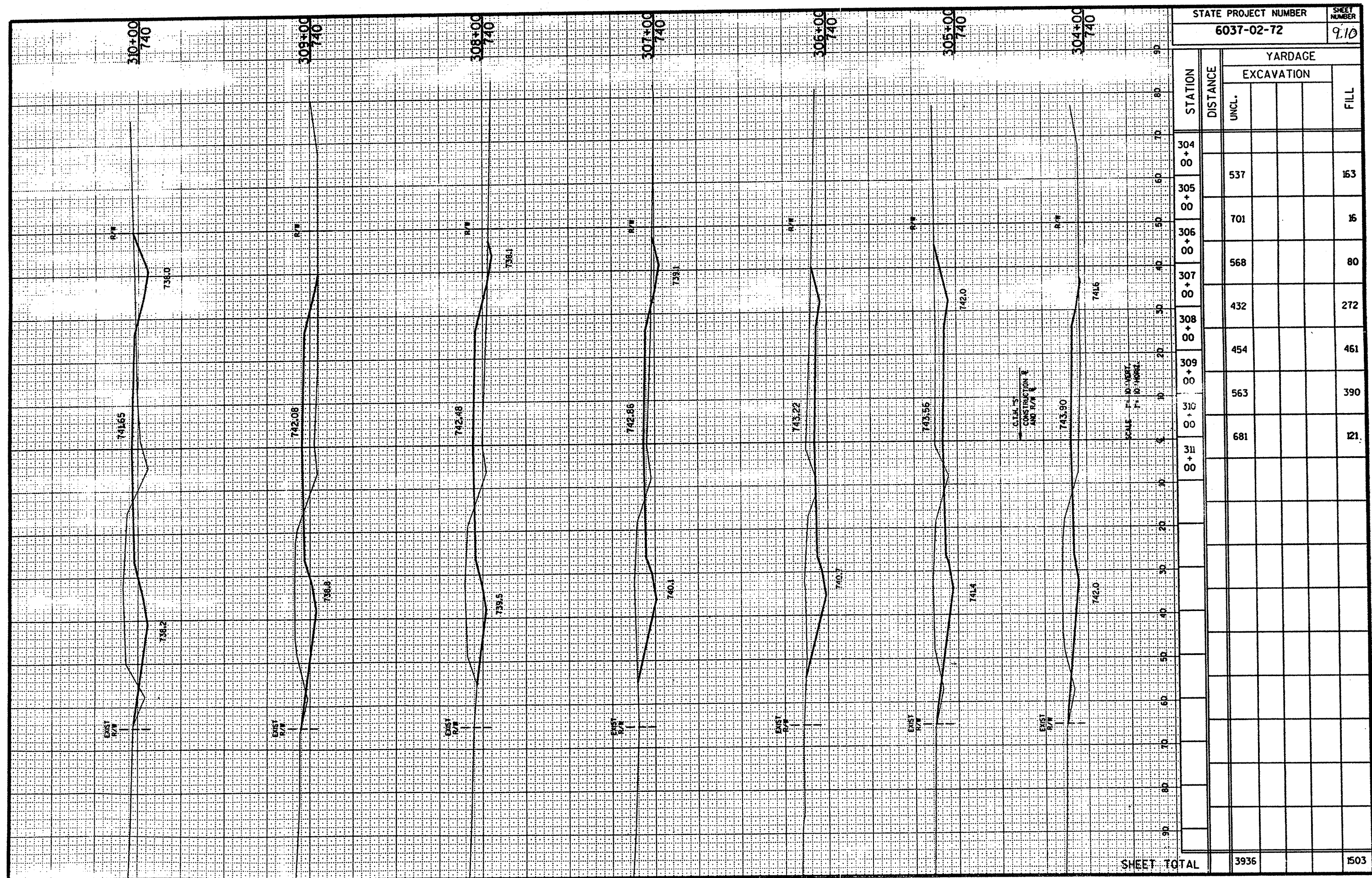


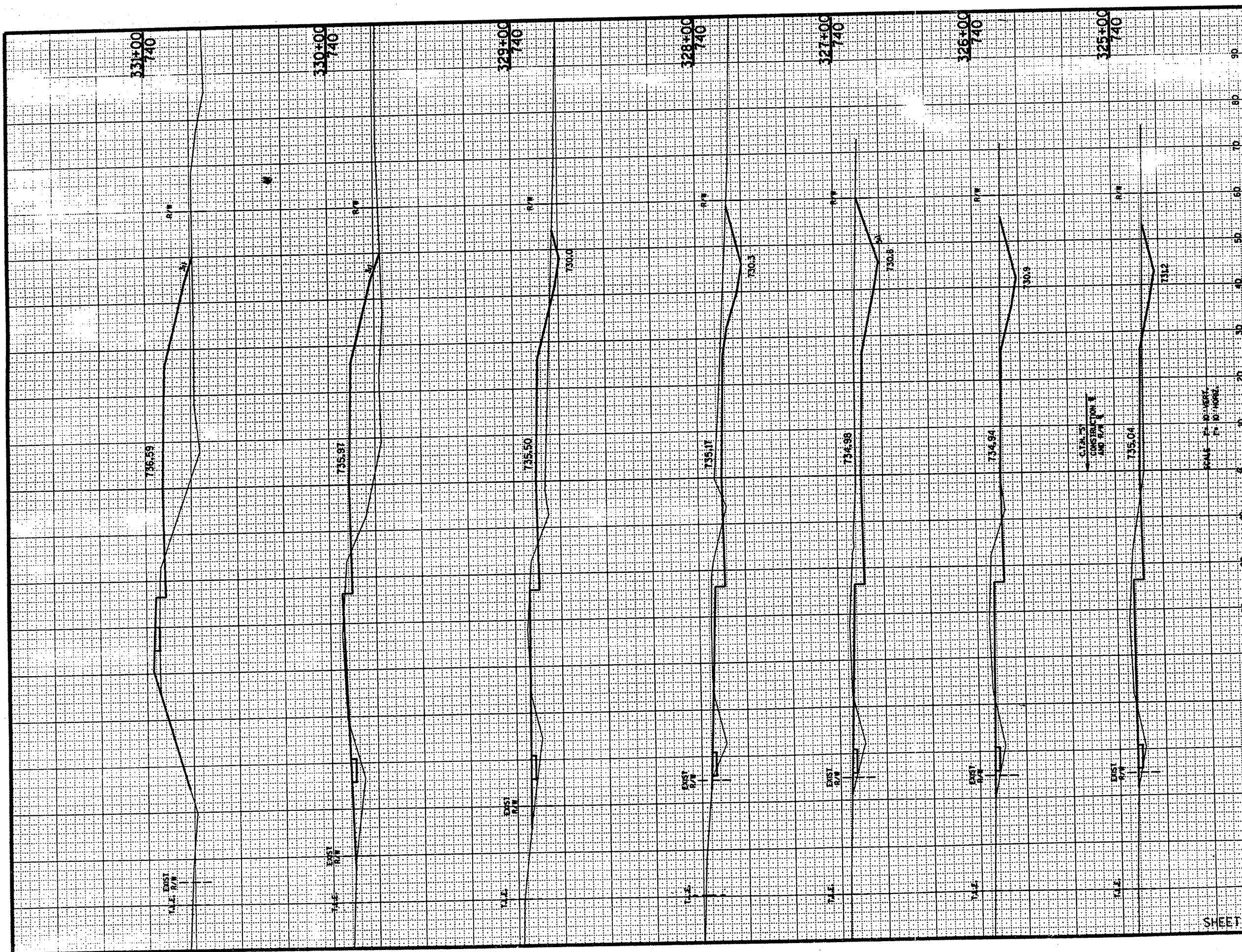
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| 275 + 00 | | | | | | |
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| 278 + 00 | | 32 | | | | 603 |
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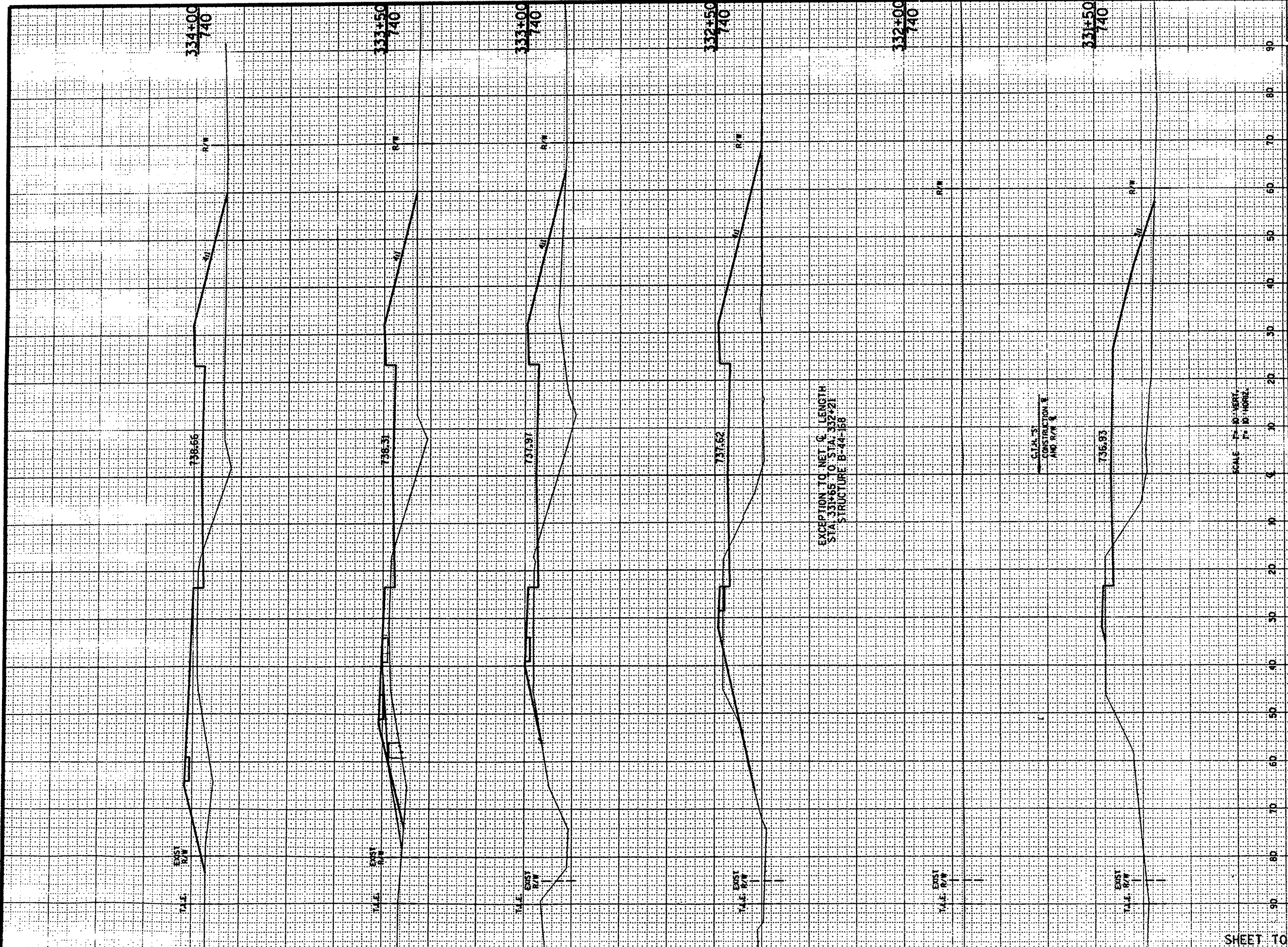




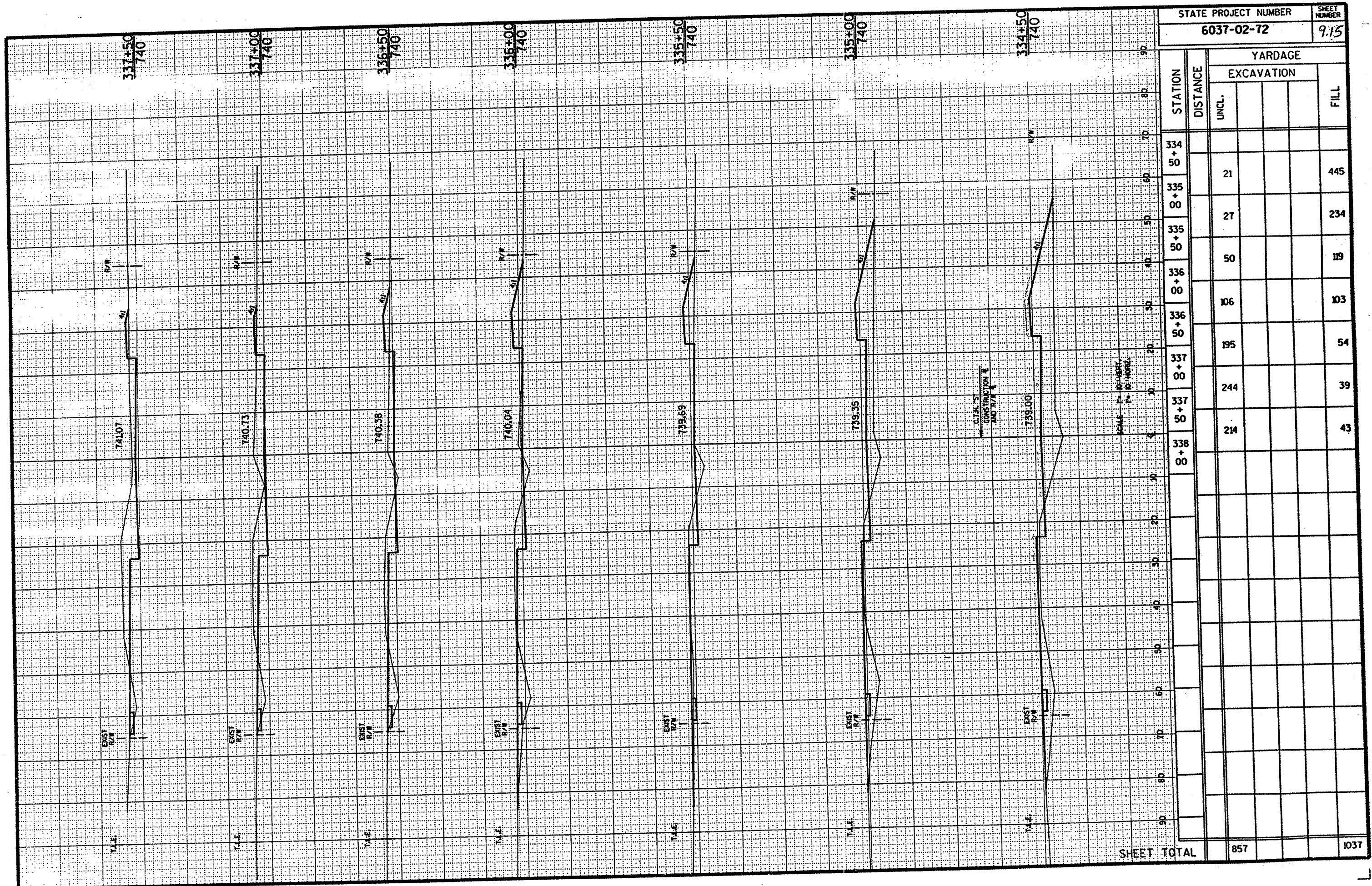


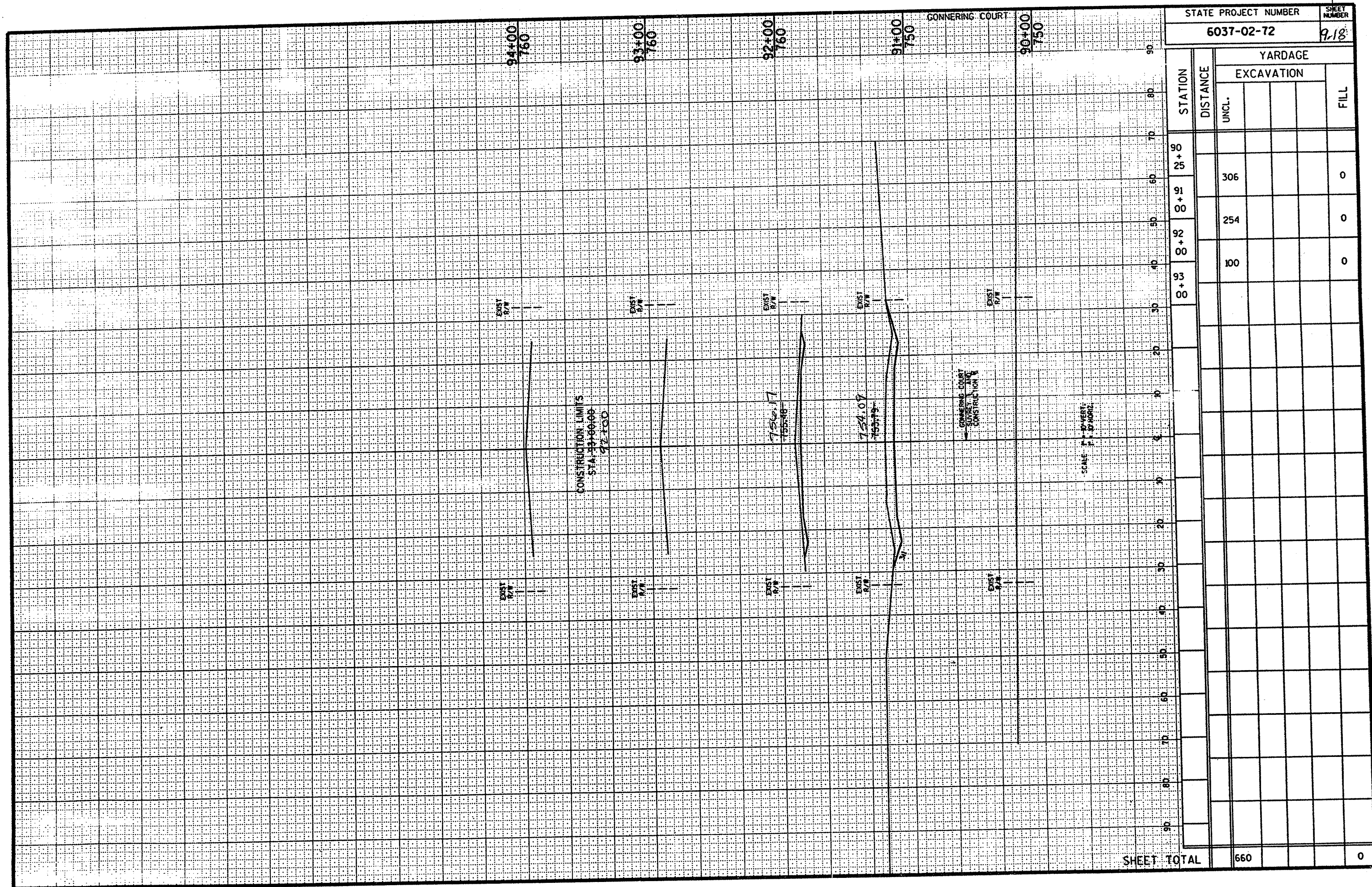


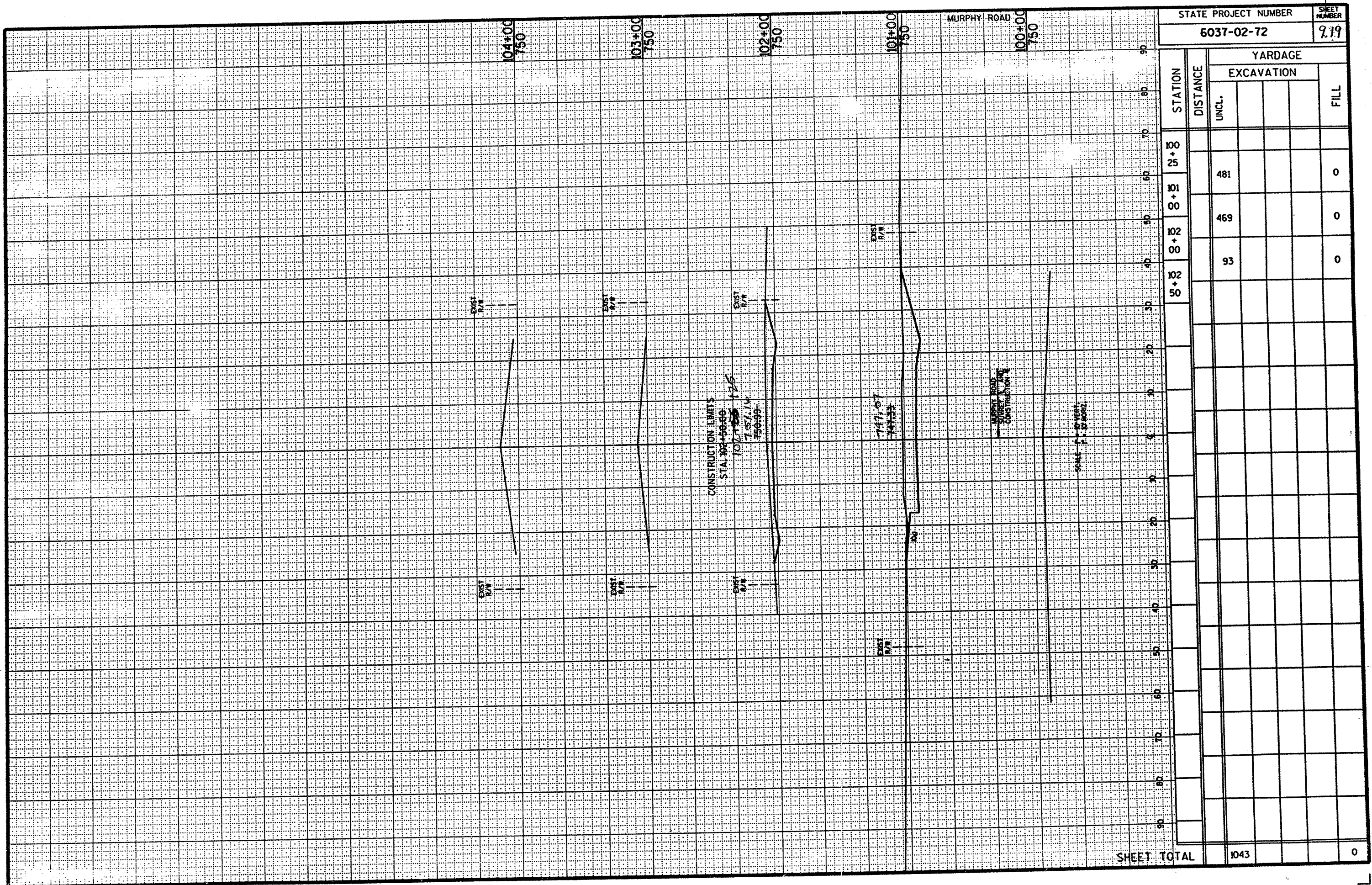
| STATE PROJECT NUMBER | | | | | SHEET NUMBER |
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| 328 + 00 | | 644 | | | 83 |
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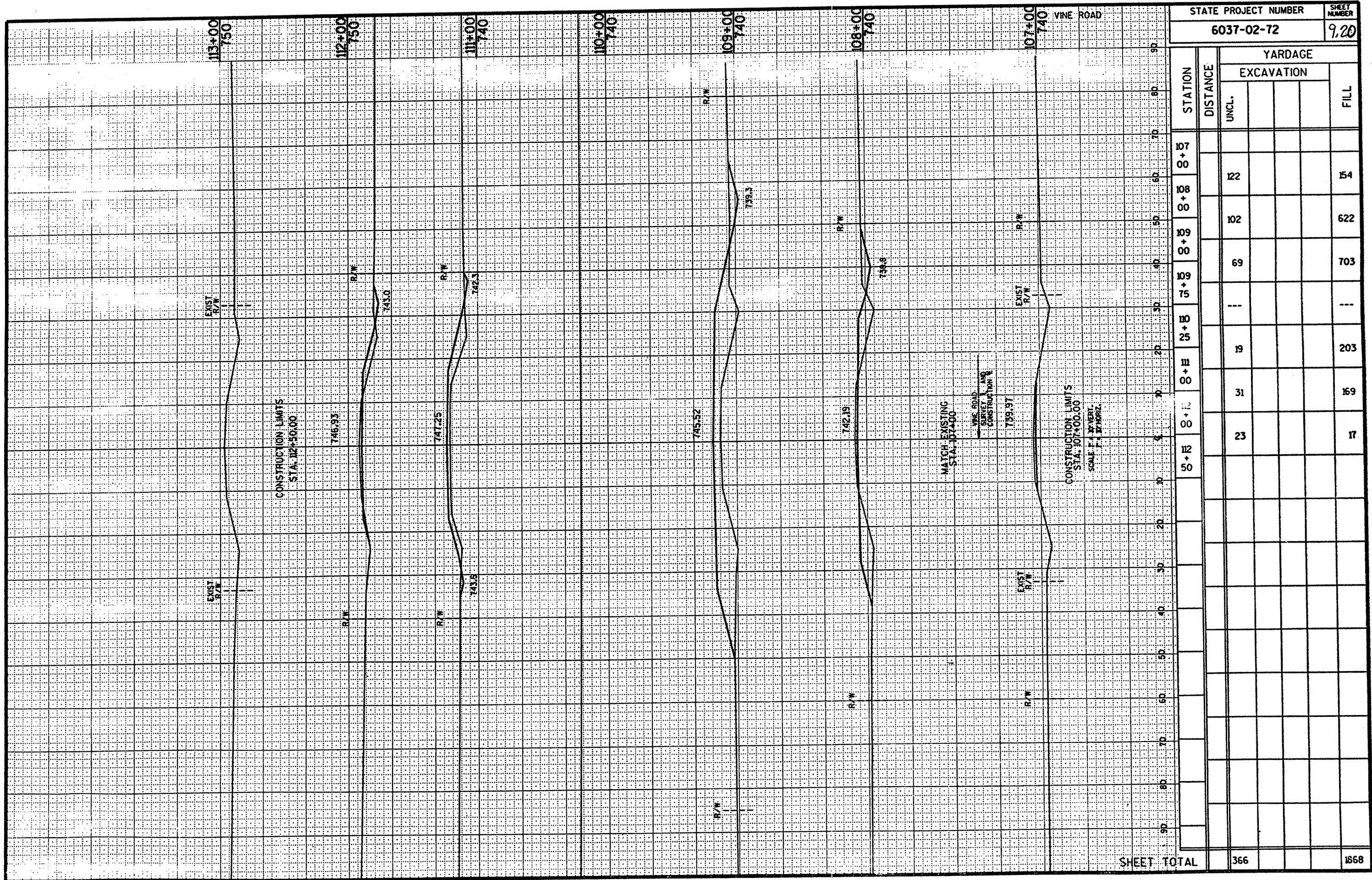


| STATE PROJECT NUMBER | | | | | SHEET NUMBER |
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| 6037-02-72 | | | | | 7.14 |
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