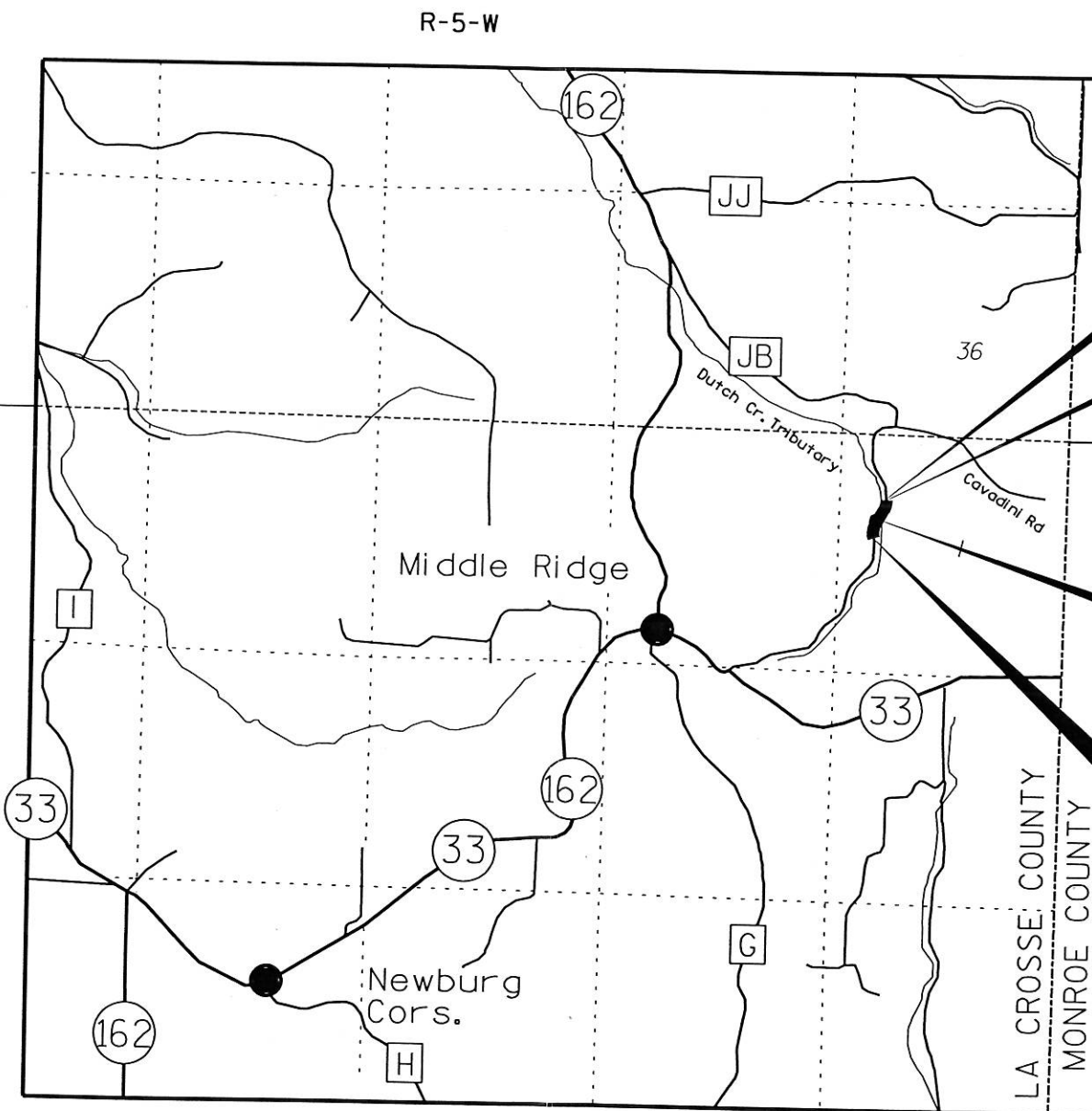


INDEX OF SHEETS

Sheet No.	1.0	Title
Sheet No.	2.0	General Notes and Misc Quantities
Sheet No.	3.0	Typical Sections and Details
Sheet No.	4.0	Right-of-Way Plat
Sheet No.	5.0	Plan and Profile
Sheet No.	01-06	Structure Plans
Sheet No.	9.1-9.9	Cross Sections

TOTAL SHEETS = 20

# CTH JB BRIDGE & APPROACHES STRUCTURE B-32-194 LA CROSSE COUNTY, WISCONSIN



T-16-N  
END CONSTRUCTION  
STA. 14+00

END PROJECT  
STA. 12+85  
N 60,738.77  
E 55,409.04

STRUCTURE  
B-32-194

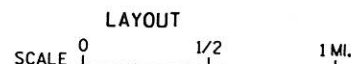
T-15-N  
BEGIN PROJECT  
STA. 6+45  
N 60,190.62  
E 55,180.03

DESIGN DESIGNATIONS

ADT (1997) = 90  
ADT (2017) = 100  
DESIGN SPEED = 25 MPH

CONVENTIONAL SYMBOLS

- COUNTY LINE
- CORPORATE LIMITS
- SURVEY LINE
- COMBUSTIBLE FLUIDS
- UNDERGROUND UTILITIES
  - GAS
  - ELECTRIC
  - TELEPHONE OR TELEGRAPH
  - FIBRE OPTIC
  - SERVICE PEDESTAL
  - CABLE MARKER
- POWER POLE
- TELEPHONE POLE
- RAILROADS
- CULVERT PIPE
- SILT FENCE
- EROSION BALES



TOTAL NET LENGTH OF CENTERLINE = 0.121 MI.

ALL COORDINATES GIVEN ARE IN THE  
LA CROSSE COUNTY COORDINATE SYSTEM.

UTILITIES  
\* TELEPHONE

GTE NORTH INCORPORATED  
835 RED IRON ROAD  
BLACK RIVER FALLS, WI 54615  
ATTN: DON CROGAN  
(715) 284-4373

ELECTRIC

BANGOR MUNICIPAL UTILITIES  
P.O. BOX 130  
BANGOR, WI 54614  
ATTN: CECIL ROLFE  
(608) 486-2151

\* DENOTES MEMBER OF DIGGER'S HOTLINE



TO OBTAIN LOCATION OF  
PARTICIPANTS' UNDERGROUND  
FACILITIES BEFORE YOU  
DIG IN WISCONSIN

**CALL DIGGERS HOTLINE**  
**1-800-242-8511**  
TOLL FREE

FAX A LOCATE 1-800-338-3860  
TDD (FOR HEARING IMPAIRED) 1-800-542-2289  
WIS. STATUTE 182.0175 (1974)  
REQUIRES MIN. OF 3 WORK DAYS  
NOTICE BEFORE YOU EXCAVATE.

PLANS APPROVED BY  
LA CROSSE COUNTY

DATE: \_\_\_\_\_  
(Highway Commissioner)

ORIGINAL PLANS PREPARED BY

**MSA** PROFESSIONAL SERVICES  
TRANSPORTATION • MUNICIPAL • RECREATION  
DEVELOPMENT • ENVIRONMENTAL  
1230 South Boulevard Baraboo, WI 53913  
608-356-2771 1-800-362-4505 Fax: 608-356-2770



DATE: 8/1/97 *David L. Weiss*  
(Professional Engineer)

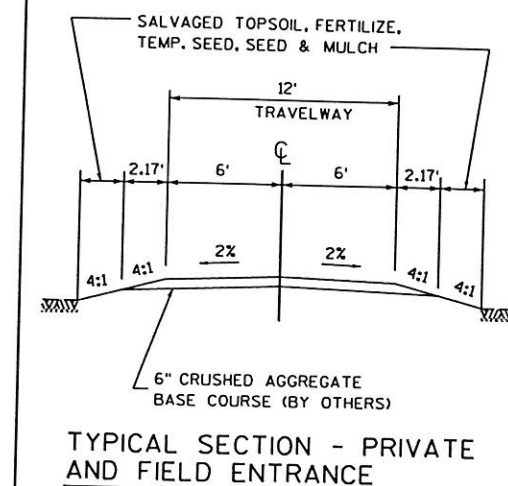
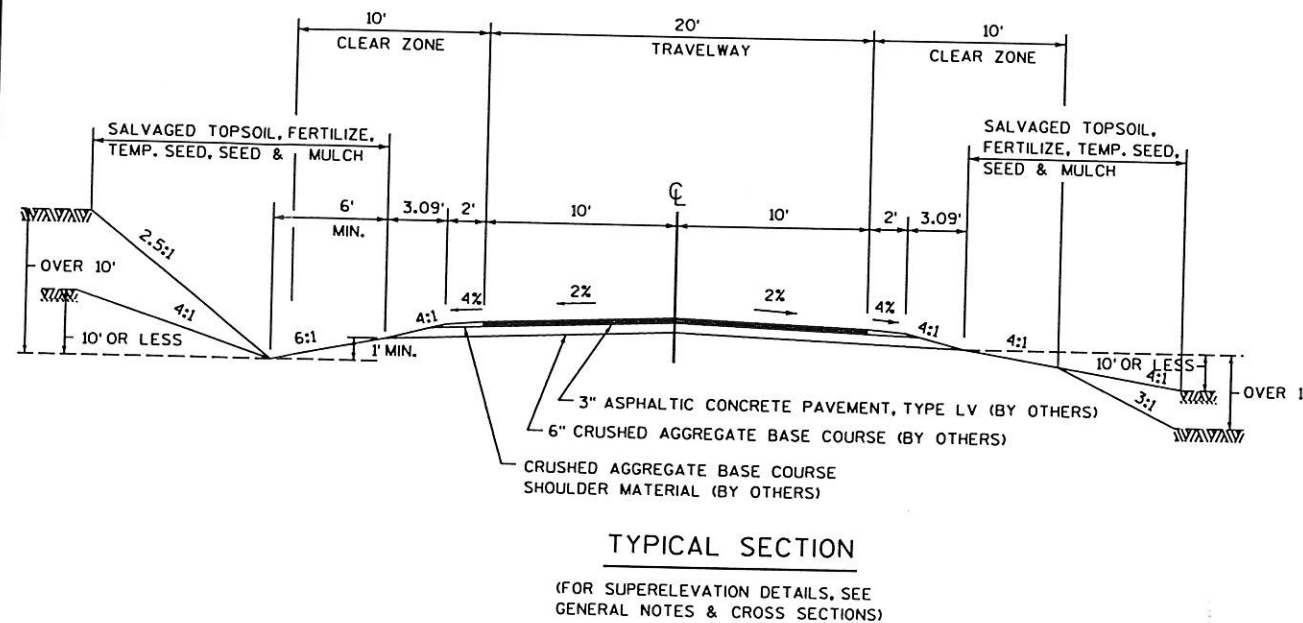
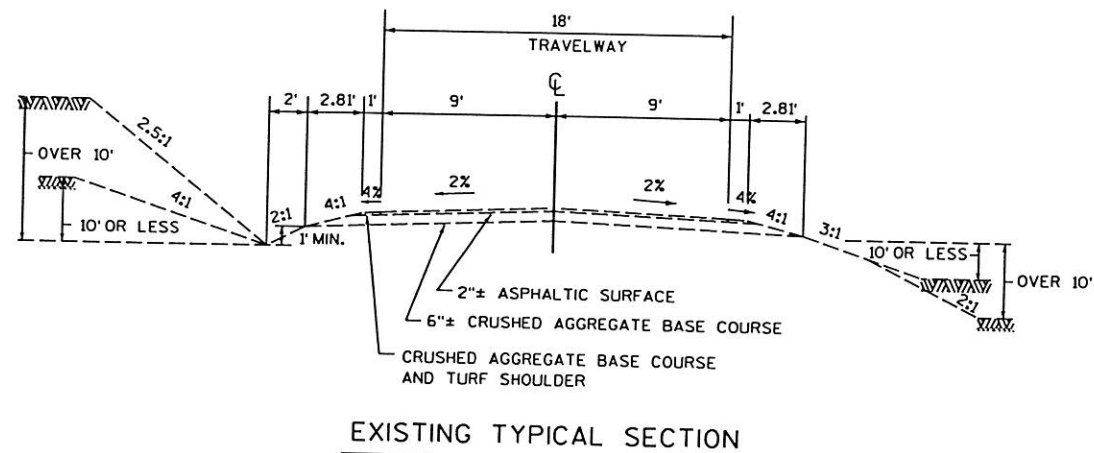
GENERAL NOTES

1. THE LOCATIONS 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.
2. CURVE DATA IS BASED ON THE ARC DEFINITION.
3. PLAN ELEVATION = LOCAL DATUM.
4. THE LOW SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS SUPERELEVATION WHEN SUPERELEVATION IS GREATER THAN 4%. IF SUPERELEVATION IS LESS THAN OR EQUAL TO 4%, THEN LOW SIDE SHOULDER SLOPE IS 4%. HIGH SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS SUPERELEVATION.
5. FILL EXPANSION IS ESTIMATED AT 1.30. YARDAGE IS BALANCED BY EXPANDING THE FILL SECTION.
6. EXACT LOCATION AND WIDTH OF DRIVEWAY AND FIELD ENTRANCES ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD. DRIVEWAY AND FIELD ENTRANCE SHALL BE REPLACED IN KIND.
7. DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE SHOULDER POINTS, ARE TO BE FERTILIZED, TEMPORARY SEEDED, SEEDED, & MULCHED AS DIRECTED BY THE ENGINEER.
8. 3-INCH ASPHALTIC CONCRETE PAVEMENT, TYPE LV, (BY OTHERS) SHALL BE CONSTRUCTED WITH 1-1/2 INCH UPPER COURSE AND 1-1/2 INCH LOWER COURSE.
9. TACK COAT (BY OTHERS) HAS BEEN ESTIMATED AT AN APPLICATION RATE OF 0.025 GALLONS PER SQUARE YARD AND SHALL BE PLACED BETWEEN LAYERS OF ASPHALTIC CONCRETE PAVEMENT, TYPE LV.
10. SILT FENCE FOR EROSION CONTROL SHALL BE PLACED BEFORE EARTHWORK FILL IS PLACED. DUTCH CREEK TRIBUTARY SHALL BE PROTECTED AT ALL TIMES.
11. CONSTRUCT ASPHALTIC TAPER FROM EXISTING WIDTH TO 20 FEET IN 50 FEET AT EACH END OF THE PROJECT. THE ASPHALT SHALL TAPER FROM 28 FEET WIDE AT THE BRIDGE ENDS TO 20 FEET AT 50 FEET OFF THE ENDS OF THE BRIDGE.

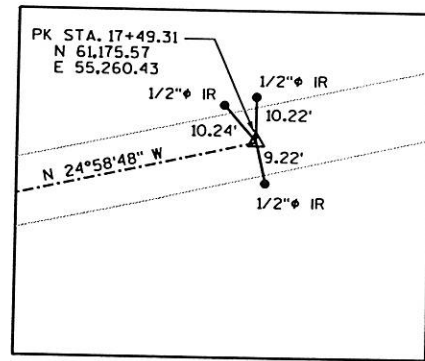
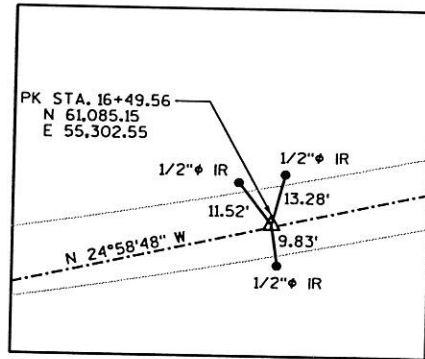
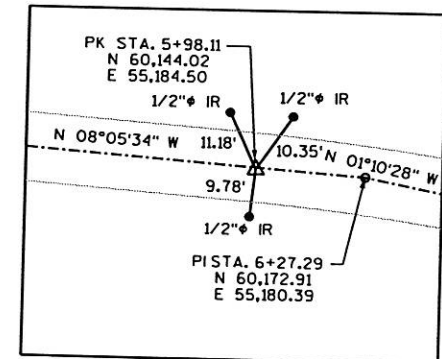
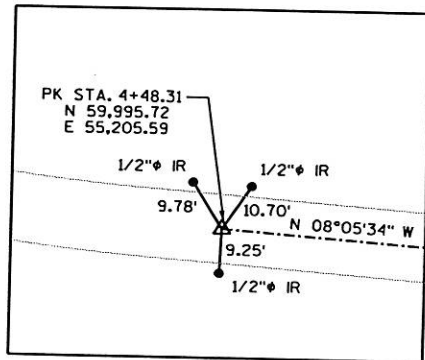
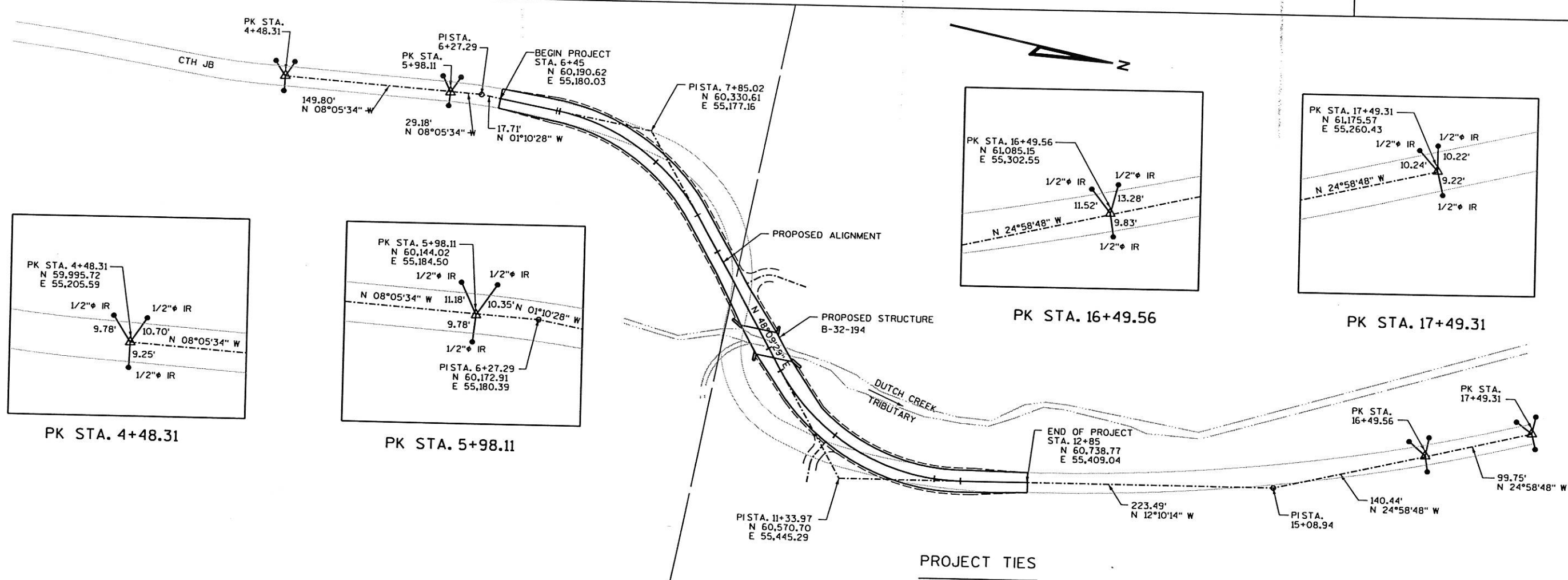
NON-STRUCTURE BID ITEMS	UNIT	TOTAL
CLEARING	STATION	1
GRUBBING	STATION	1
UNCLASSIFIED EXCAVATION	CUBIC YARDS	769
BORROW EXCAVATION	CUBIC YARDS	189
CULVERT PIPE, CLASS III, 18-INCH	LINEAL FEET	30
APRON ENDWALLS FOR CULVERT PIPE, 18-INCH	EACH	2
SALVAGED TOPSOIL	SQUARE YARDS	3350
MULCHING	SQUARE YARDS	3350
EROSION BALES, DELIVERED & INSTALLED	EACH	15
SILT FENCE MAINTENANCE	LINEAL FEET	1500
SILT FENCE, DELIVERED & INSTALLED	LINEAL FEET	750
FERTILIZER, TYPE B	HUNDRED WEIGHT	2
TEMPORARY SEEDING	POUND	45
SEEDING, MIXTURE NO. 20	POUND	90
WOOD POSTS, 4x4-INCH x 10 FOOT	EACH	4
SIGNS, TYPE II, REFLECTIVE	SQUARE FEET	12
SAWING EXISTING PAVEMENT	LINEAL FEET	36

NON-STRUCTURE ITEMS BY OTHERS	UNIT	TOTAL
CRUSHED AGGREGATE BASE COURSE	TONS	730
ASPHALTIC CONCRETE PAVEMENT, TYPE LV	TONS	235
ASPHALTIC MATERIAL FOR PLANT MIXES	TONS	14.1
ASPHALTIC MATERIAL FOR TACK COAT	GALLON	34
MARKER POSTS FOR RIGHT-OF-WAY	EACH	6
PAVEMENT MARKING, 4-INCH, PAINT	LINEAL FEET	1284

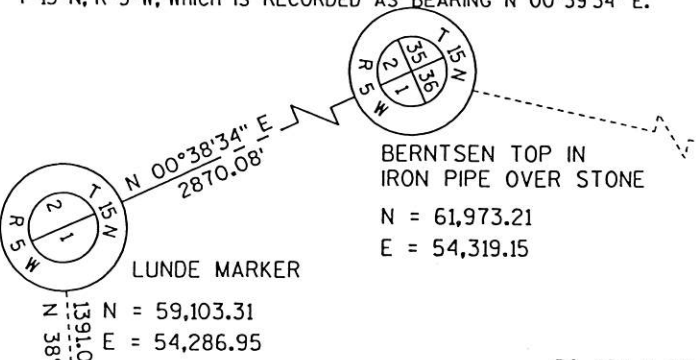
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LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62,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



BEARING ORIENTATION:  
BEARINGS ARE REFERENCED TO THE WEST LINE OF THE SECTION 1, T-15-N, R-5-W, WHICH IS RECORDED AS BEARING N 00°39'34" E.



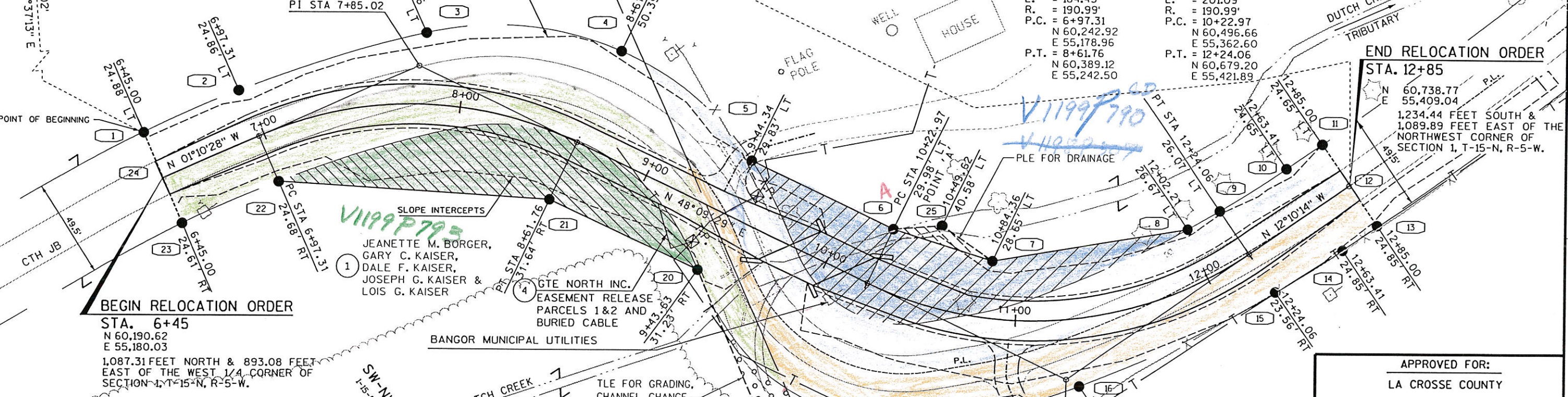
PARCEL NUMBER	SHEET NUMBER	PROPERTY OWNER'S NAME	INTEREST REQUIRED	TOTAL AREA	R/W AREA REQUIRED			TOTAL REMAINING AREA	TLE AREA	PLE AREA
					NEW	EXISTING	TOTAL			
1	4.0	JEANETTE M. BORGER, GARY C. KAISER, DALE F. KAISER, JOSEPH G. KAISER & LOIS G. KAISER	FEE	216.56 ACRES	0.12 ACRE	0.36 ACRE	0.48 ACRE	216.08 ACRES	0.01 ACRE	-
2	4.0	THOMAS R. & SANDRA L. CAVADINI	FEE	40.00 ACRES	0.14 ACRE	0.24 ACRE	0.48 ACRE	39.52 ACRES	-	0.01 ACRE
3	4.0	LARRY W. & PHYLLIS T. CAVADINI	FEE	109.60 ACRES	-	0.20 ACRE	0.20 ACRE	109.40 ACRES	0.01 ACRE	-
4	4.0	GTE NORTH INC.	RELEASE OF RIGHTS	-	-	-	-	-	-	-

PLAT OF RIGHT OF WAY REQUIRED FOR  
CTH JB BRIDGE & APPROACHES  
STRUCTURE B-32-194  
LA CROSSE COUNTY

NOTE: EXISTING HIGHWAY R/W ESTABLISHED FROM CENTERLINE OF EXISTING PAVEMENT.

NOTE: AREAS SHOWN IN THE TOTAL AREA 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 CONTIGUOUS TO THE AREA TO BE ACQUIRED.

C/L CURVE #1		C/L CURVE #2	
P.I. = 7+85.02	N 60,330.61	P.I. = 11+33.97	N 60,570.70
E 55,177.16	E 55,177.16	E 55,445.29	E 55,445.29
Δ = 49°20'00" RT	T. = 87.71'	Δ = 60°19'36" LT	T. = 110.99'
L. = 164.45'	R. = 190.99'	L. = 201.09'	R. = 190.99'
P.C. = 6+97.31	N 60,242.92	P.C. = 10+22.97	N 60,496.66
E 55,178.96	E 55,178.96	E 55,362.60	E 55,362.60
P.T. = 8+61.76	N 60,389.12	P.T. = 12+24.06	N 60,679.20
E 55,242.50	E 55,242.50	E 55,421.89	E 55,421.89



R/W CURVE DATA				
COURSE	LONG CHORD BEARING	LONG CHORD DISTANCE	CURVE RADIUS	CURVE LENGTH
1-2	N 01°09'40" W	52.31'	661.37'	52.32'
2-3	N 05°20'50" E	98.08'	661.37'	98.17'
3-4	N 27°47'43" E	97.90'	154.97'	99.60'
4-5	N 62°08'13" E	85.10'	154.97'	86.20'
8-9	N 07°04'32" W	18.83'	548.21'	18.83'
9-10	N 10°06'29" W	39.38'	548.21'	39.38'
14-15	S 10°17'07" E	39.37'	597.71'	39.38'
15-16	S 03°10'51" E	109.04'	597.71'	109.19'
16-17	S 07°02'28" W	50.01'	253.94'	50.09'
18-19	S 30°19'57" W	64.59'	106.61'	65.62'
19-20	S 71°32'32" W	87.49'	111.72'	89.90'
22-23	S 01°05'51" E	52.32'	611.86'	52.33'

R/W COURSE DATA		
COURSE	BEARING	DISTANCE
5-6	N 48°03'04" E	78.64'
6-7	N 40°23'58" E	51.75'
7-8	N 13°09'19" E	99.21'
10-11	N 12°10'28" W	21.59'
11-12	N 77°49'46" E	24.65'
12-13	N 77°49'46" E	24.85'
13-14	S 12°10'48" E	21.58'
17-18	S 12°41'46" W	22.30'
20-21	S 47°52'17" W	81.87'
21-22	S 26°09'30" W	136.05'
23-24	S 88°49'32" W	24.61'
24-1	S 88°49'32" W	24.88'

NOTES:  
ALL GIVEN COORDINATES ARE IN THE LA CROSSE COUNTY COORDINATE SYSTEM.  
DIMENSIONING FOR NEW R/W IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.  
R/W MONUMENTS MAY BE PLACED BY OTHERS.  
RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC RECORD. OTHER INFORMATION IS PROVIDED TO SUPPLEMENT THE BASIC PERIMETER DESCRIPTION AND SHALL NOT BE CONSTRUED TO PREVAIL OVER THE PERIMETER DESCRIPTION.

TLE COURSE DATA				
COURSE	BEARING	DISTANCE		
19-26	S 17°44'58" W	27.75'		
26-20	S 89°01'26" W	74.54'		

COURSE	LONG CHORD BEARING	LONG CHORD DISTANCE	CURVE RADIUS	CURVE LENGTH
20-19	N 71°32'32" E	87.49'	111.72'	89.90'

PLE COURSE DATA		
COURSE	BEARING	DISTANCE
6-25	N 18°10'20" E	24.14'
25-7	N 57°39'26" E	30.79'
7-6	S 40°23'58" W	51.75'

POINT	N	E	POINT	N	E
1	60,190.11	55,155.16	14	60,722.91	55,437.89
2	60,242.41	55,154.10	15	60,684.17	55,444.92
3	60,340.06	55,163.24	16	60,575.30	55,450.97
4	60,426.66	55,208.89	17	60,525.67	55,444.84
5	60,466.43	55,284.12	18	60,503.92	55,439.94
6	60,519.00	55,342.61	19	60,448.17	55,407.32
7	60,558.41	55,376.15	20	60,420.47	55,324.33
8	60,655.02	55,398.73	21	60,365.55	55,263.61
9	60,673.70	55,396.41	22	60,243.43	55,203.63
10	60,712.47	55,389.50	23	60,191.12	55,204.63
11	60,733.57	55,384.95	24	60,190.62	55,180.03
12	60,738.77	55,409.04	25	60,541.94	55,350.14
13	60,744.01	55,433.34	26	60,421.74	55,398.86

CONVENTIONAL SIGNS:  
SECTION LINE  
SIXTEENTH LINE  
PROPERTY LINE  
LIMITED EASEMENT  
MINOR TIES  
R/W POINT  
R/W POINT NUMBER

APPROVED FOR:  
LA CROSSE COUNTY  
DATE: \_\_\_\_\_  
Highway Commissioner

PLAT PREPARED BY:  
**MSA**  
PROFESSIONAL SERVICES  
TRANSPORTATION • MUNICIPAL • REMEDIATION  
DEVELOPMENT • ENVIRONMENTAL  
1230 South Boulevard Baraboo, WI 53913  
608-356-2771 1-800-362-4505 Fax: 608-356-2770



DATE: 8/12/97 Rodney J. Key  
Registered Land Surveyor

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

P.I. = 7+85.02  
 N = 60,330.61  
 E = 55,177.16  
 Δ = 49°20'00" RT  
 D = 30°00'00"  
 T = 87.71'  
 L = 164.45'  
 R = 190.99'  
 P.C. = 6+97.31  
 P.T. = 8+61.76

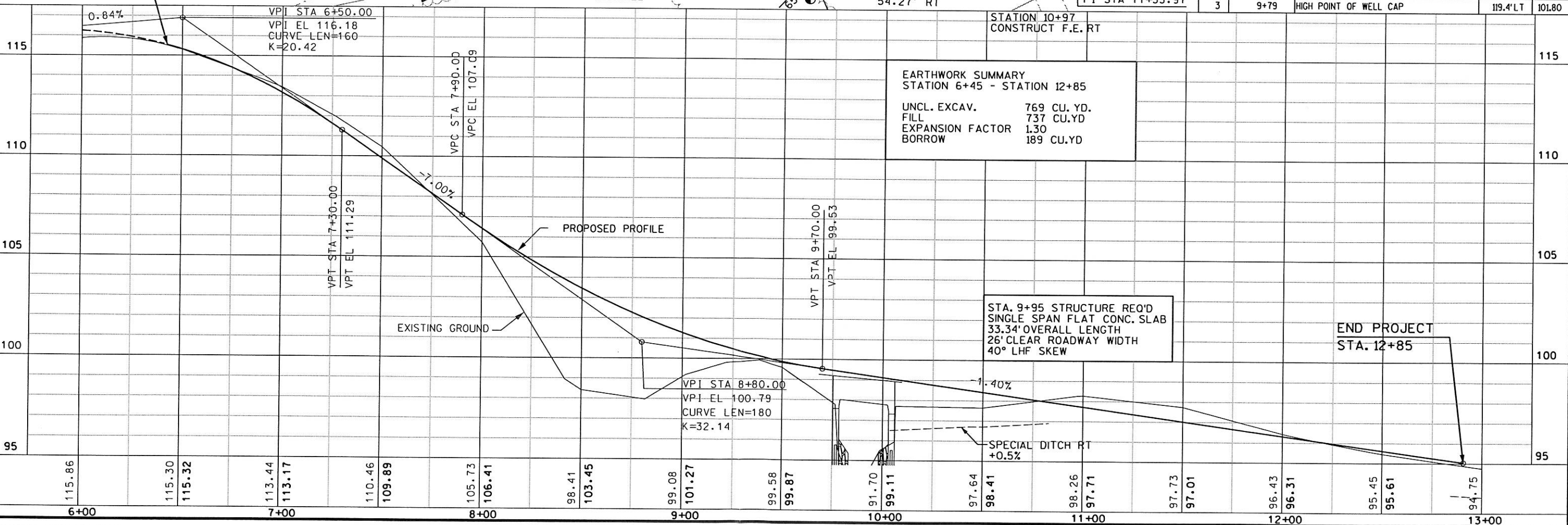
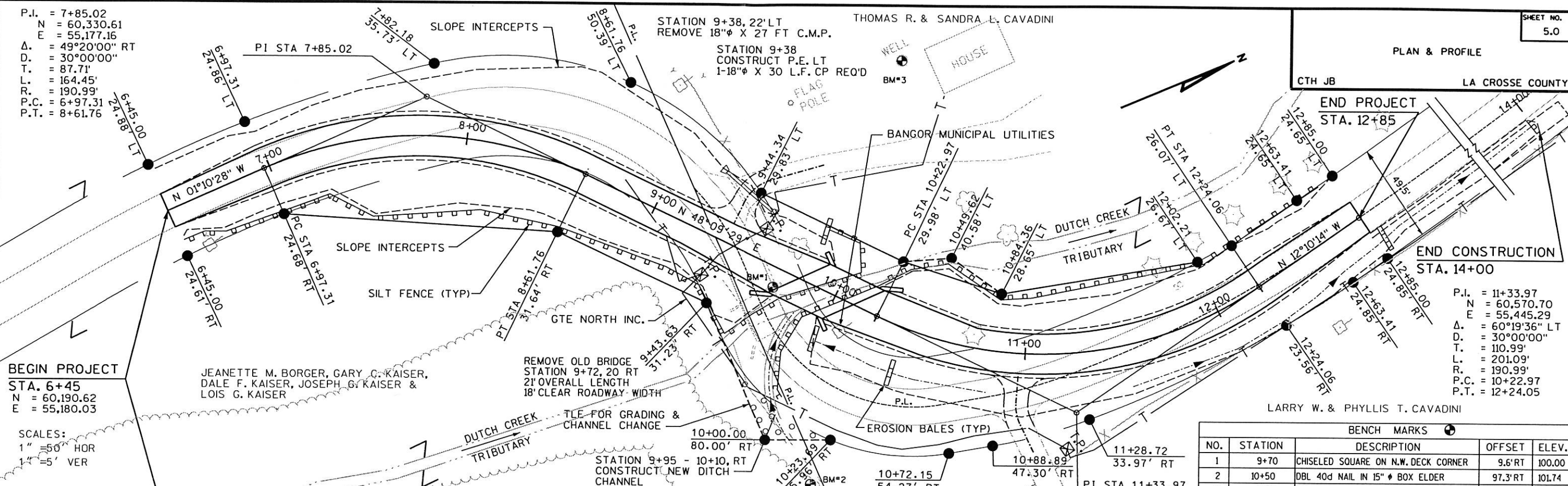
END PROJECT  
 STA. 12+85

END CONSTRUCTION  
 STA. 14+00

P.I. = 11+33.97  
 N = 60,570.70  
 E = 55,445.29  
 Δ = 60°19'36" LT  
 D = 30°00'00"  
 T = 110.99'  
 L = 201.09'  
 R = 190.99'  
 P.C. = 10+22.97  
 P.T. = 12+24.05

LARRY W. & PHYLLIS T. CAVADINI

BENCH MARKS				
NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	9+70	CHISELED SQUARE ON N.W. DECK CORNER	9.6' RT	100.00
2	10+50	DBL 40d NAIL IN 15" # BOX ELDER	97.3' RT	101.74
3	9+79	HIGH POINT OF WELL CAP	119.4' LT	101.80



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

SCALES:  
 1" = 50' HOR  
 1" = 5' VER

BEGIN PROJECT  
 STA. 6+45  
 N = 60,190.62  
 E = 55,180.03

JEANETTE M. BORGER, GARY C. KAISER,  
 DALE F. KAISER, JOSEPH G. KAISER &  
 LOIS G. KAISER

REMOVE OLD BRIDGE  
 STATION 9+72, 20 RT  
 21' OVERALL LENGTH  
 18' CLEAR ROADWAY WIDTH

STATION 9+95 - 10+10, RT  
 CONSTRUCT NEW DITCH

STATION 10+97  
 CONSTRUCT F.E. RT

END PROJECT  
 STA. 12+85

○ - INDICATES WING NUMBER

BENCHMARKS			
NO.	LOCATION	DESCRIPTION	ELEV.
1	9+70, 9.6' RT.	CHISELED SQUARE ON N.W. DECK CORNER	100.00
2	10+50, 97.3' RT.	DBL. 40d. NAIL IN 15" Ø BOX ELDER	101.74
3	9+79, 119.4 LT.	HIGH POINT OF WELL CAP	101.80

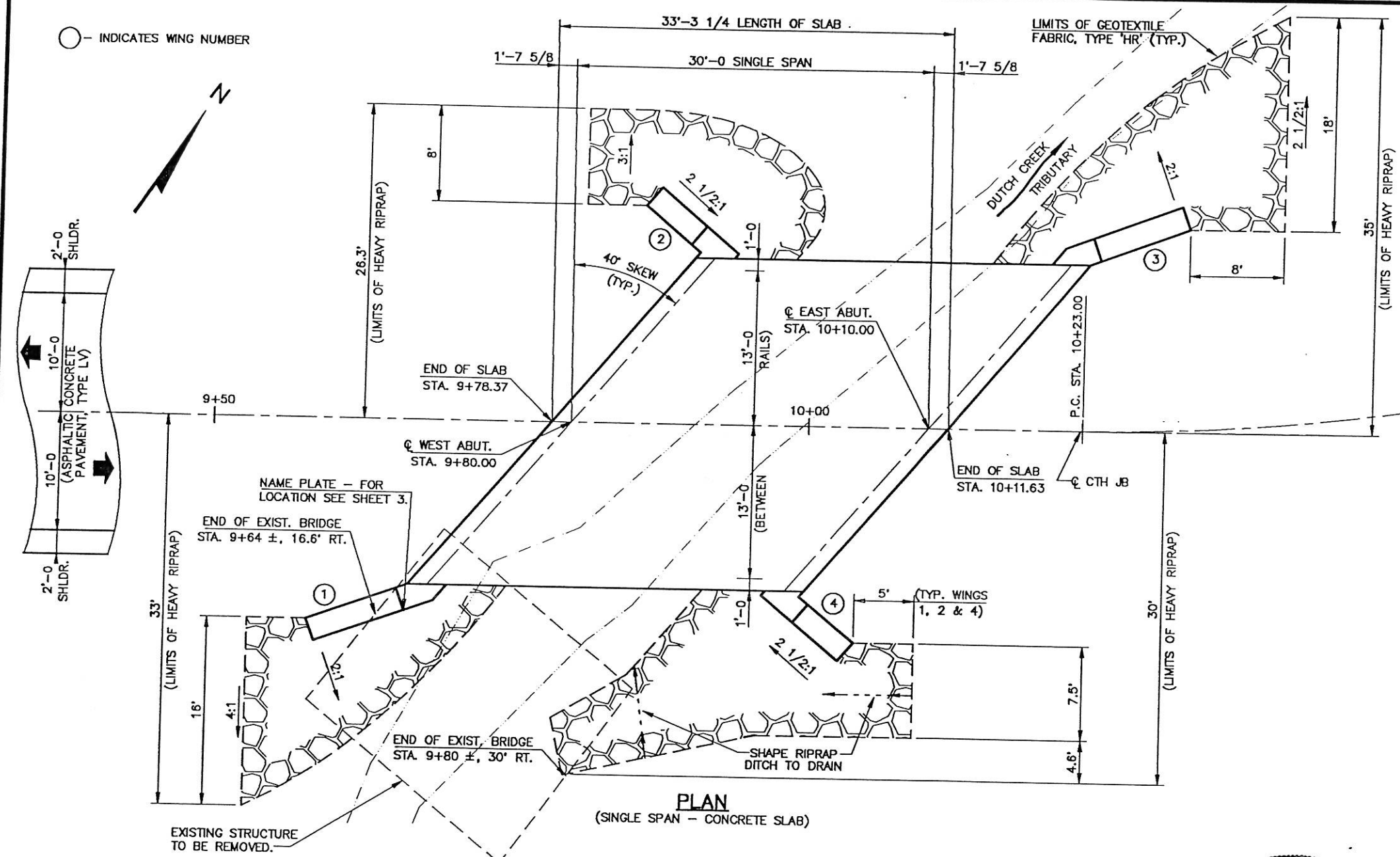
**DESIGN DATA**

**LIVELOAD**  
 DESIGN RATING : HS-20  
 INVENTORY RATING : HS-24  
 OPERATIONAL RATING : HS-40  
 MAX. STANDARD PERMIT VEHICLE LOAD = 210 KIPS  
 STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

**ULTIMATE DESIGN STRESSES:**  
 CONCRETE MASONRY - SLAB \_\_\_\_\_  $f_c' = 4,000$  P.S.I.  
 - ALL OTHER \_\_\_\_\_  $f_c' = 3,500$  P.S.I.  
 HIGH STRENGTH AND COATED HIGH STRENGTH  
 BAR STEEL REINFORCEMENT, GRADE 60 \_\_\_\_\_  $f_y = 60,000$  P.S.I.

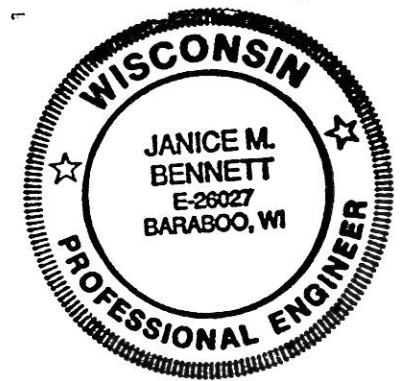
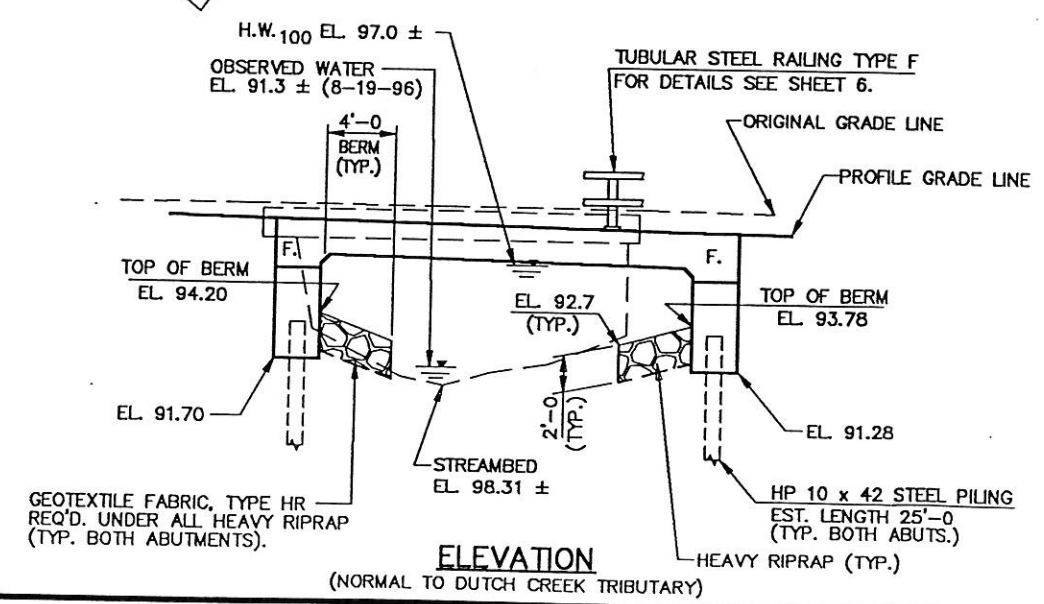
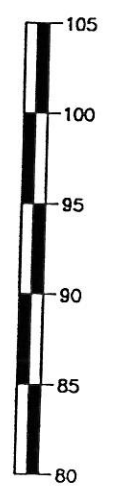
**FOUNDATION DATA:**  
 ABUTMENTS SHALL BE SUPPORTED ON HP 10x42 STEEL PILING DRIVEN TO A MINIMUM BEARING VALUE OF 40 TONS PER PILE. ESTIMATED PILE LENGTHS ARE 25'-0" AT BOTH ABUTMENTS.

**HYDRAULIC DATA:**  
 100 YEAR FREQUENCY  
 DRAINAGE AREA \_\_\_\_\_ 1.01 SQ. MI.  
 $Q_{100}$  \_\_\_\_\_ 600 C.F.S.  
 VELOCITY \_\_\_\_\_ 8.5 F.P.S.  
 WATERWAY AREA \_\_\_\_\_ 70 SQ. FT.  
 HIGH WATER<sub>100</sub> ELEVATION \_\_\_\_\_ 97.0 ±  
 ROADWAY OVERFLOW DESIGN FREQUENCY \_\_\_\_\_ N/A  
 SCOUR CRITICAL CODE \_\_\_\_\_ B



**LIST OF DRAWINGS**

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. ABUTMENTS
4. ABUTMENT DETAILS
5. SUPERSTRUCTURE
6. TUBULAR STEEL RAILING TYPE F



4-30-1997  
 Janice M. Bennett

NO.	DATE	REVISION	BY

**CTH JB OVER DUTCH CREEK TRIBUTARY  
 STRUCTURE B-32-194**

**GENERAL PLAN :**

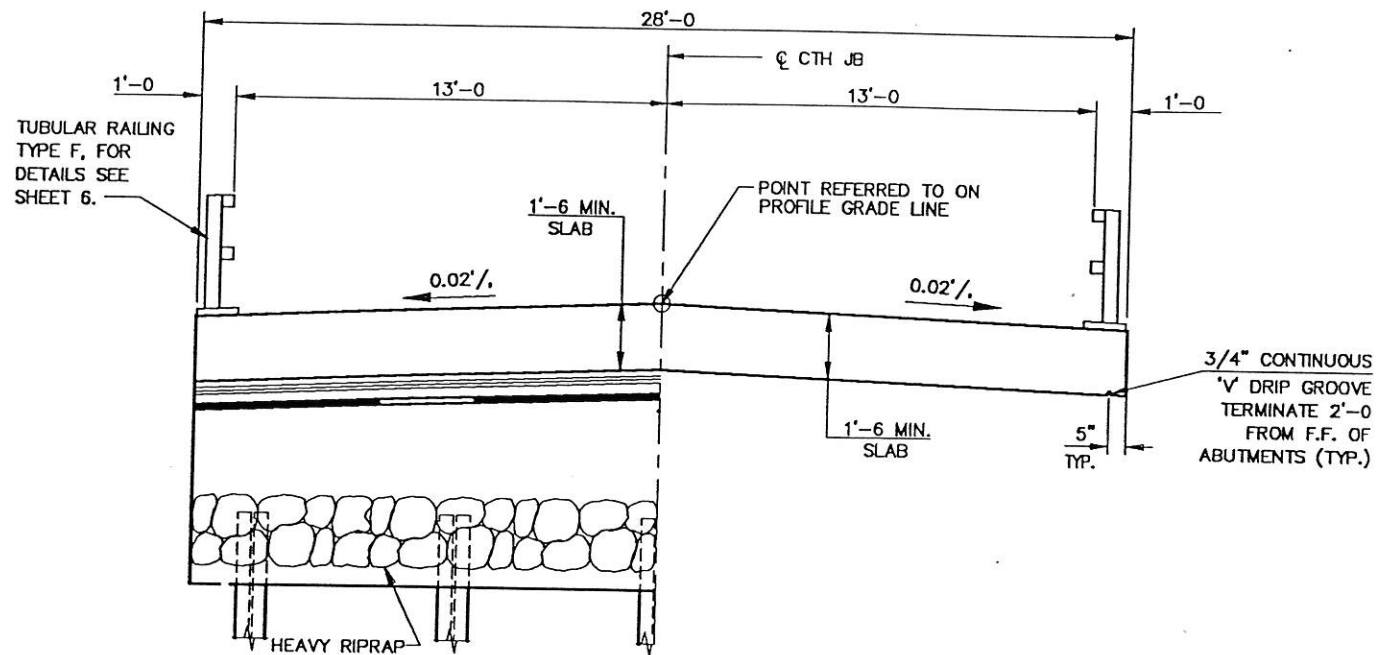
County	LA CROSSE	Town/City/Village	WASHINGTON
Design Spec.	AASHTO 1996	Load	HS-20
Designed By	JMB	Const. Spec.	WI "96"
Design Checked	DHW	Drawn By	RLR
Checked	JMB	Plans Checked	JMB

**MSA** TRANSPORTATION & MUNICIPAL & REMEDIATION  
 DEVELOPMENT & ENVIRONMENTAL  
 1270 South Boulevard, Madison, WI 53715  
 608-366-2771 1-800-362-6000 Fax: 608-366-2770

PROFESSIONAL SERVICES

FA. 852      CDD # 93964301

DRAWN BY: RLR      DATE: 5-16-97      SHEET 01 of 06  
 CHECKED BY: JMB      PLOT SCALE: 1 = 128      FILE NO. 939643



AT ABUTMENTS IN SPAN

**CROSS SECTION THRU BRIDGE**  
(LOOKING EAST)

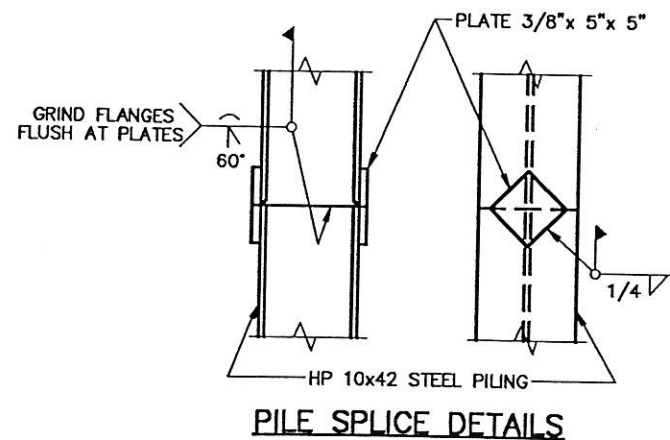
**TOTAL ESTIMATED QUANTITIES**

STRUCTURE BID ITEMS		UNIT	WEST ABUT.	EAST ABUT.	SUPER	TOTAL
REMOVING OLD BRIDGE, STATION 9+72, RT.						
EXCAVATION FOR STRUCTURES, BRIDGES B-32-194	LS					1
STRUCTURE BACKFILL	LS					1
CONCRETE MASONRY, BRIDGES	C.Y.	115	115			230
PROTECTIVE SURFACE TREATMENT	C.Y.	27.9	27.8			55.7
HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	S.Y.			105		105
COATED HIGH STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	LB.	1960	1960	7350		11270
STEEL PILING, DELIVERED AND DRIVEN, HP 10-INCH, 42 POUND	L.F.			3170		3170
TUBULAR RAILING, TYPE F, STRUCTURE B-32-194	LS	125	125			250
RUBBERIZED MEMBRANE WATERPROOFING	S.Y.	7	7			14
HEAVY RIPRAP	C.Y.	45	55			100
GEOTEXTILE FABRIC, TYPE HR	S.Y.	90	110			200
STRUCTURE NON-BID ITEMS						
FILLER	SIZE					1/2" & 3/4"

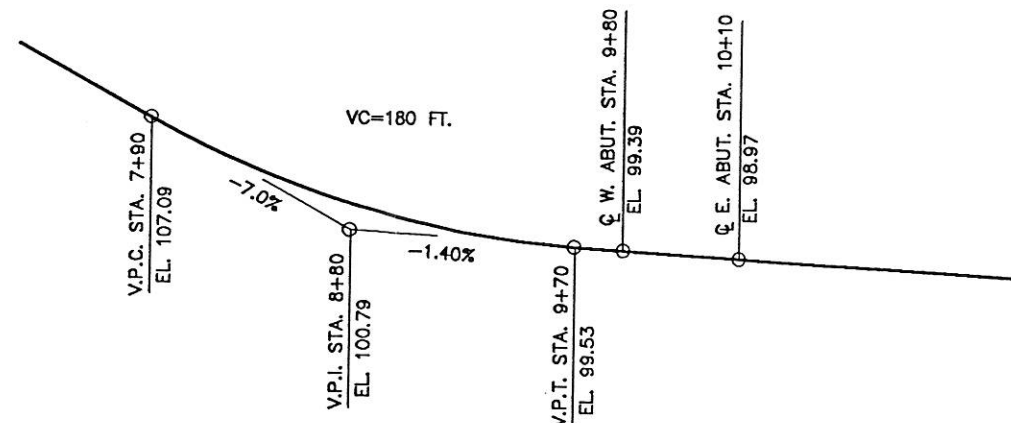
\* - OIL FIELD PIPE IS NOT AN OPTION ON THIS PROJECT.

**GENERAL NOTES**

- DRAWINGS SHALL NOT BE SCALED.
- BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.
- THE FIRST DIGIT OF A THREE DIGIT BAR MARK SIGNIFIES THE BAR SIZE.
- THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE FABRIC, TYPE HR TO THE LIMITS SHOWN ON SHEET 1 AND ON THE ABUTMENT SHEETS OR AS DIRECTED BY THE ENGINEER.
- THE PROPOSED SUBGRADE SHALL BE THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES" FOR THE ABUTMENTS.
- SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.
- THIS STRUCTURE WILL REPLACE A 21 FT. LONG SINGLE SPAN STEEL DECK GIRDER BRIDGE SET ON FULL RETAINING CONCRETE ABUTMENTS.
- AT THE ABUTMENTS ALL EXCAVATED VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL. THE STRUCTURE BACKFILL QUANTITIES ASSUMED A 1 1/2:1 EXCAVATION SLOPE.
- LACROSSE COUNTY WILL FURNISH A BENCHMARK MONUMENT WHICH WILL BE INSTALLED BY THE CONTRACTOR IN WING #1 AS NOTED ON SHEET 6.



**PILE SPLICE DETAILS**



**PROFILE GRADE LINE - CTH JB**

NO.	DATE	REASON	BY

**CTH JB OVER DUTCH CREEK TRIBUTARY  
STRUCTURE B-32-194**

**CROSS SECTION & QUANTITIES**

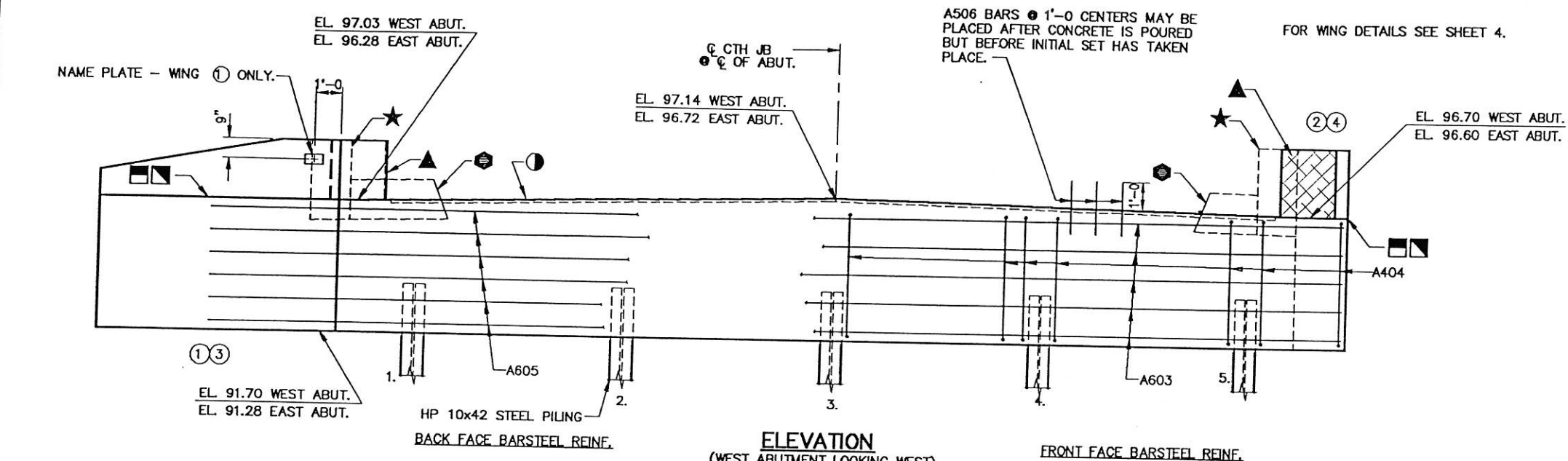
**MSA** TRANSPORTATION & MUNICIPAL & RESIDENTIAL  
DEVELOPMENT & ENVIRONMENTAL  
1330 South Oakland Boulevard, St. Louis, MO 63103  
800-360-5771 314-992-9000 Fax: 314-992-1770  
PROFESSIONAL SERVICES

FA. 852 CADD # 93964302 SHEET 02 of 06

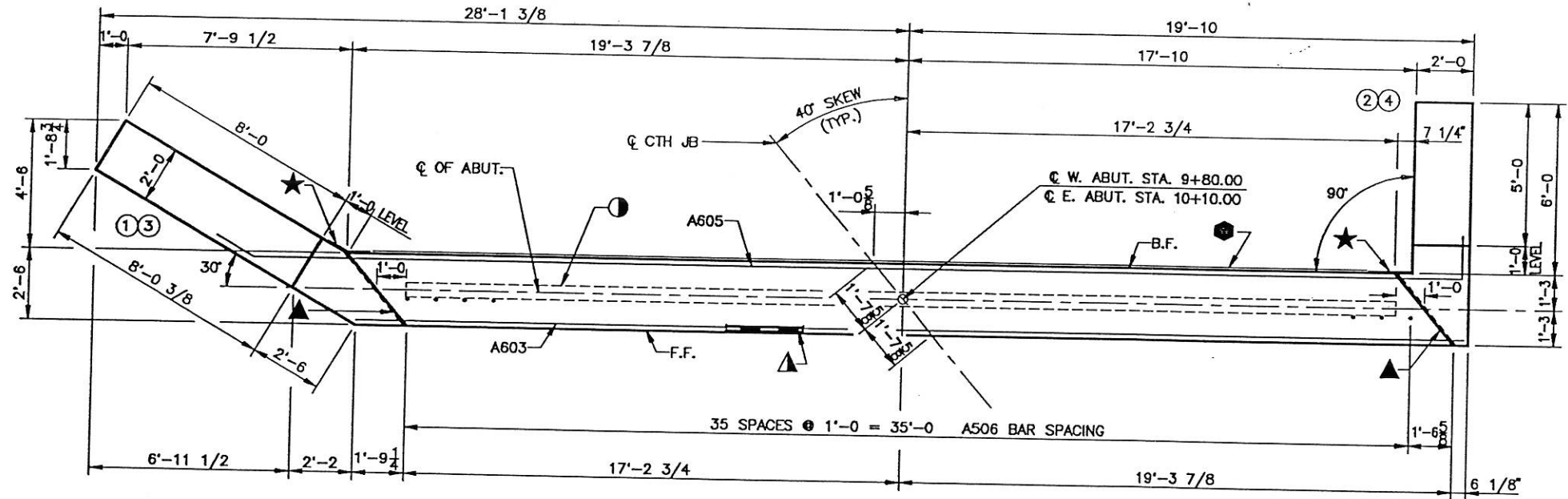
DRAWN BY: RLR DATE: 4-30-97  
CHECKED BY: JMB PLOT SCALE: 1" = 64' FILE NO. 939643

**LEGEND**

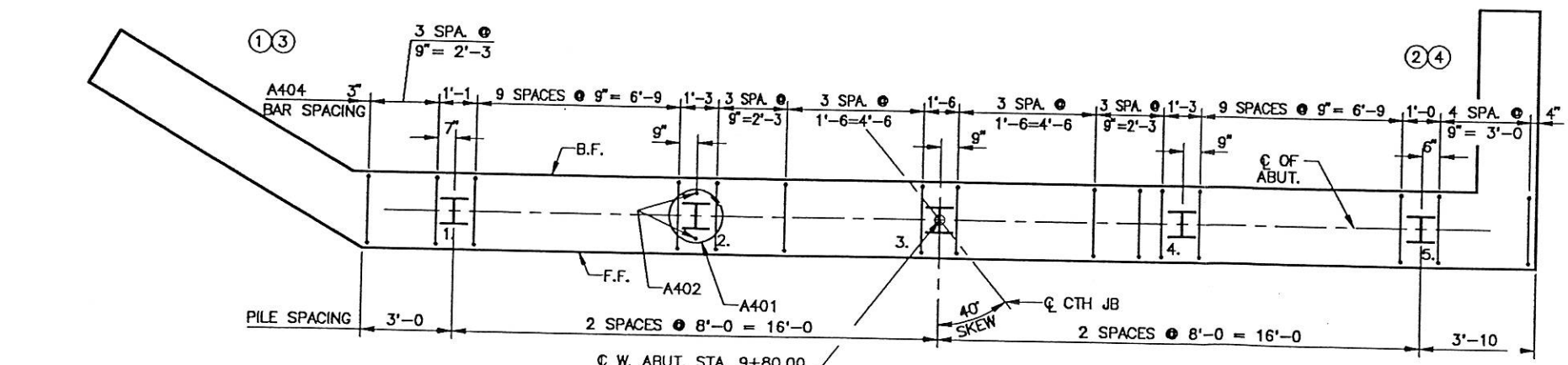
- ⊙ KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2x6.
- ▲ 1/2" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP & HOLD 1/8" BELOW SURFACE OF CONCRETE).
- △ 4" x 3/4" FILLER, EXTEND FULL LENGTH OF ABUTMENT BETWEEN EDGES OF SLAB.
- ★ VERTICAL 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING. EXTEND FROM 9" BELOW BRIDGE SEAT TO TOP OF WINGS.
- ⊙ HORIZONTAL 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING. EXTEND BETWEEN WINGS.
- SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.
- ⊠ OPTIONAL KEYED CONSTRUCTION JOINT ON WING FORMED BY BEVELED 2x6. IF JOINT IS USED POUR CONCRETE ABOVE THE JOINT AFTER DECK IS IN PLACE.
- ▽ 3/4" "V" GROOVE ON FRONT FACE OF WING WALL, REQUIRED ONLY WHERE CONST. JOINT IS USED.
- F.F. - FRONT FACE
- B.F. - BACK FACE
- CL - CLEAR



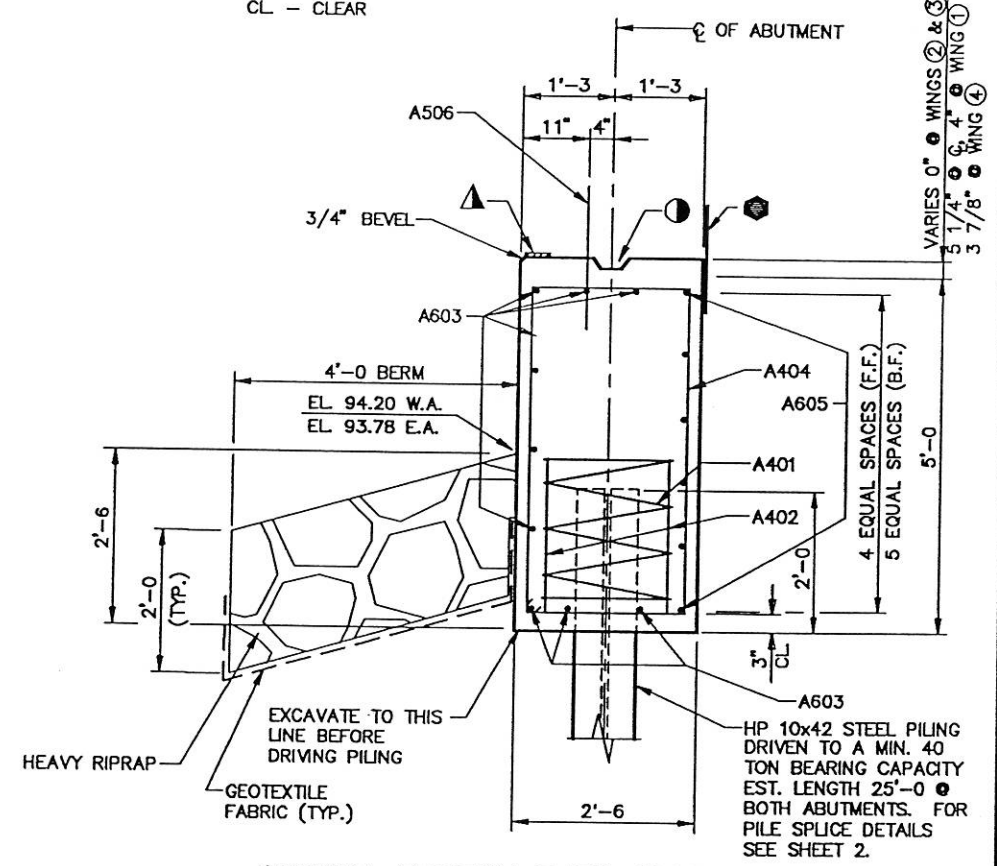
**ELEVATION**  
(WEST ABUTMENT LOOKING WEST)  
(EAST ABUTMENT LOOKING EAST)



**PLAN**



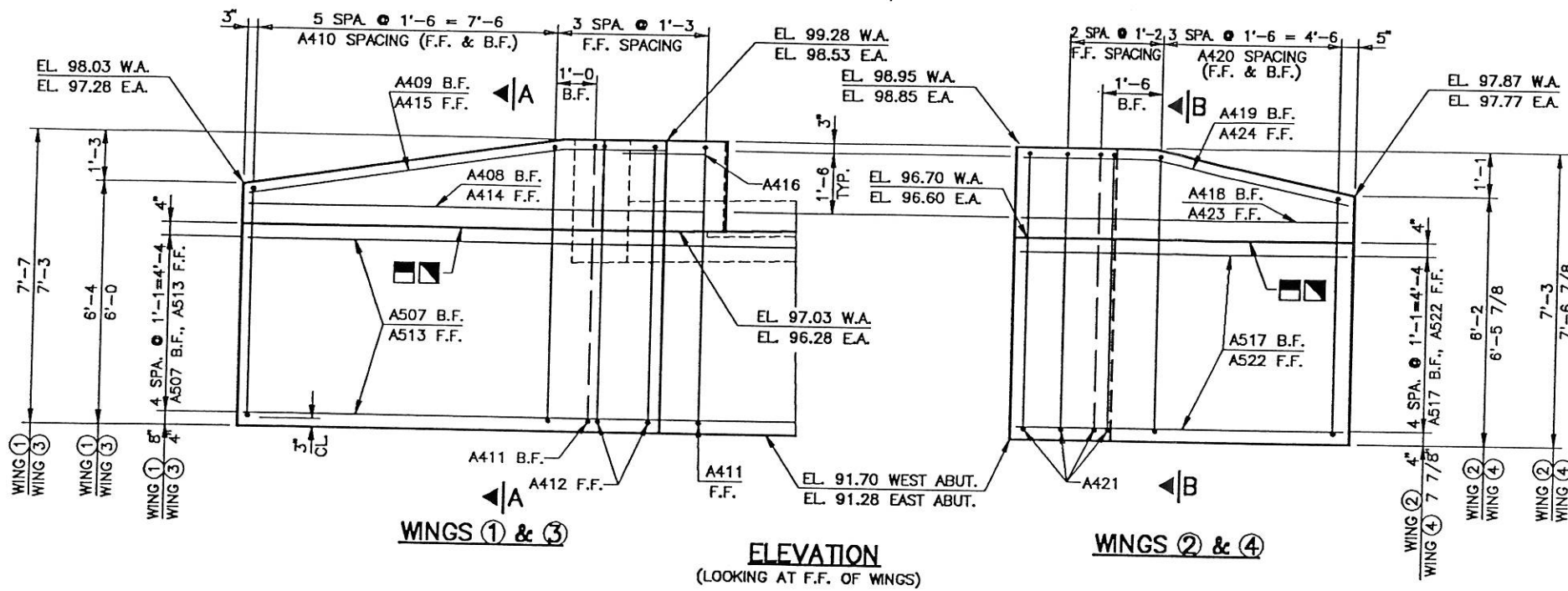
**PILE PLAN**



**TYPICAL SECTION THRU ABUTMENT**

NO.	DATE	REVISION	BY
<b>CTH JB OVER DUTCH CREEK TRIBUTARY STRUCTURE B-32-194</b>			
<b>ABUTMENTS</b>			
<b>MSA</b> TRANSPORTATION • MUNICIPAL • REMEDIATION DEVELOPMENT • ENVIRONMENTAL 1230 South Boulevard, Birmingham, AL 35213 800-390-8771, 1-800-362-6605, Fax: 205-390-7770			
P.R. 852	CHD # 93964303	DATE 4-30-97	SCALE 1 = 64
DRAWN BY RLR	CHECKED BY JMB	FILE NO. 939643	SHEET 03 of 06

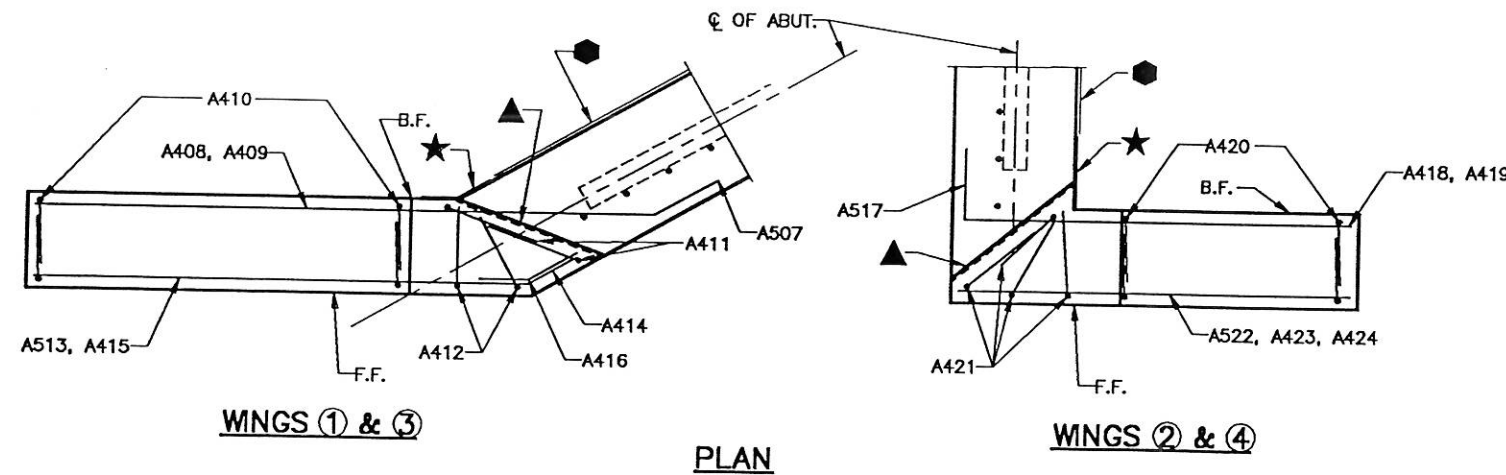




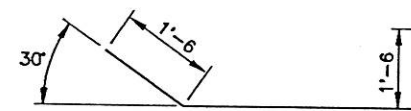
**BILL OF BARS (1 ABUTMENT) 1960 LBS.**

MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
A401	5	28-0	X		AT BODY PILES-1 PER PILE 5 SPIRAL WRAPS
A402	10	2-3			" " " " -2 " " - VERT.
A603	9	38-7			BODY - F.F., TOP & BOTTOM - HORIZ.
A404	43	14-0	X		" " STIRRUPS - VERT.
A605	6	45-0	X		" " B.F. & @ WINGS - HORIZ.
A506	36	2-0			" " TOP DOWELS - VERT.
A507	5	14-4	X		WINGS(1)&(3) - B.F. - HORIZ.
A408	1	8-9			" " " " " " - VERT.
A409	1	8-10	X		" " " " " " - TOP - "
A410	12	8-8	X	⊗	" " " " - F.F. & B.F. - VERT.
A411	2	10-8	X		" " " " " " - "
A412	2	10-0	X		" " " " " " - "
A513	5	11-9	X		" " " " " " - HORIZ.
A414	1	11-5	X		" " " " " " - "
A415	1	10-5	X		" " " " " " - TOP - "
A416	1	2-2	X		" " " " " " - "
A517	5	9-6	X		WINGS(2)&(4) - B.F. - HORIZ.
A418	1	6-6			" " " " " " - VERT.
A419	1	6-6	X		" " " " " " - TOP - "
A420	8	8-9	X	⊗	" " " " - F.F. & B.F. - VERT.
A421	4	10-4	X		" " " " " " - "
A522	5	8-2			" " " " " " - HORIZ.
A423	1	8-2			" " " " " " - "
A424	1	8-3	X		" " " " " " - TOP - "

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.  
 BAR MARKS FOR WEST ABUTMENT ARE SHOWN.  
 LABEL AND BUNDLE EAST ABUTMENT BARS WITH B MARK (B401 THRU B424).  
 ⊗ - LENGTH SHOWN FOR BAR IS AN AVERAGE AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.  
 BENT BARS USED IN BAR SERIES TABLE SHALL BE BENT AFTER CUTTING.



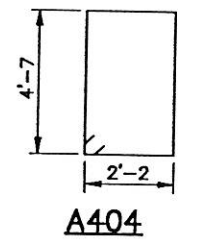
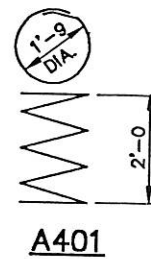
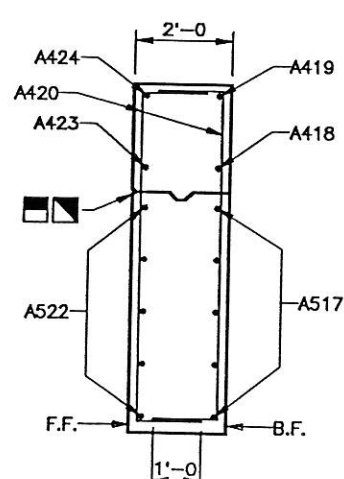
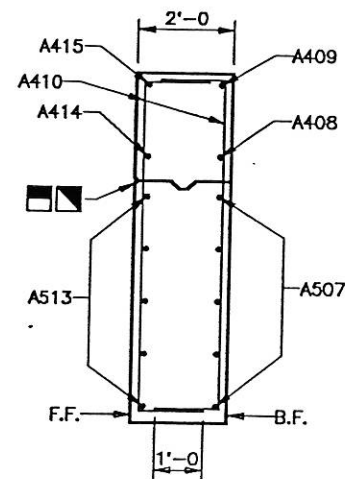
SEE SHEET 3 FOR LEGEND OF



MARK	A	B
A507		
A513	1'-6	30'
A409	1'-0	9'
A414	1'-2	30'
A415	2'-6	9'
A416	1'-2	30'
A419	1'-7	13'
A424	3'-3	13'

MARK	C
A411	2'-0
A412	1'-8
A421	1'-10



**A517**

A410 VARIES IN INCREMENTS OF 3"  
 5'-6 MIN.  
 6'-9 MAX.

A420 VARIES IN INCREMENTS OF 4"  
 5'-9 MIN.  
 6'-9 MAX.

**A410, A420 BAR SERIES TABLE**

BAR MARK	NO. REQ'D	LENGTH
A410	2 SERIES OF 6	8'-0 TO 9'-3
A420	2 SERIES OF 4	8'-3 TO 9'-3

NO.	DATE	REVISION	BY

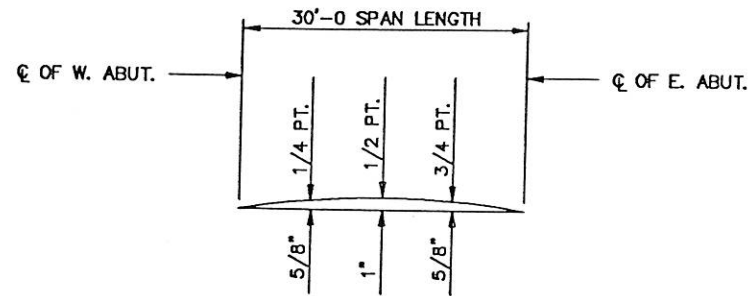
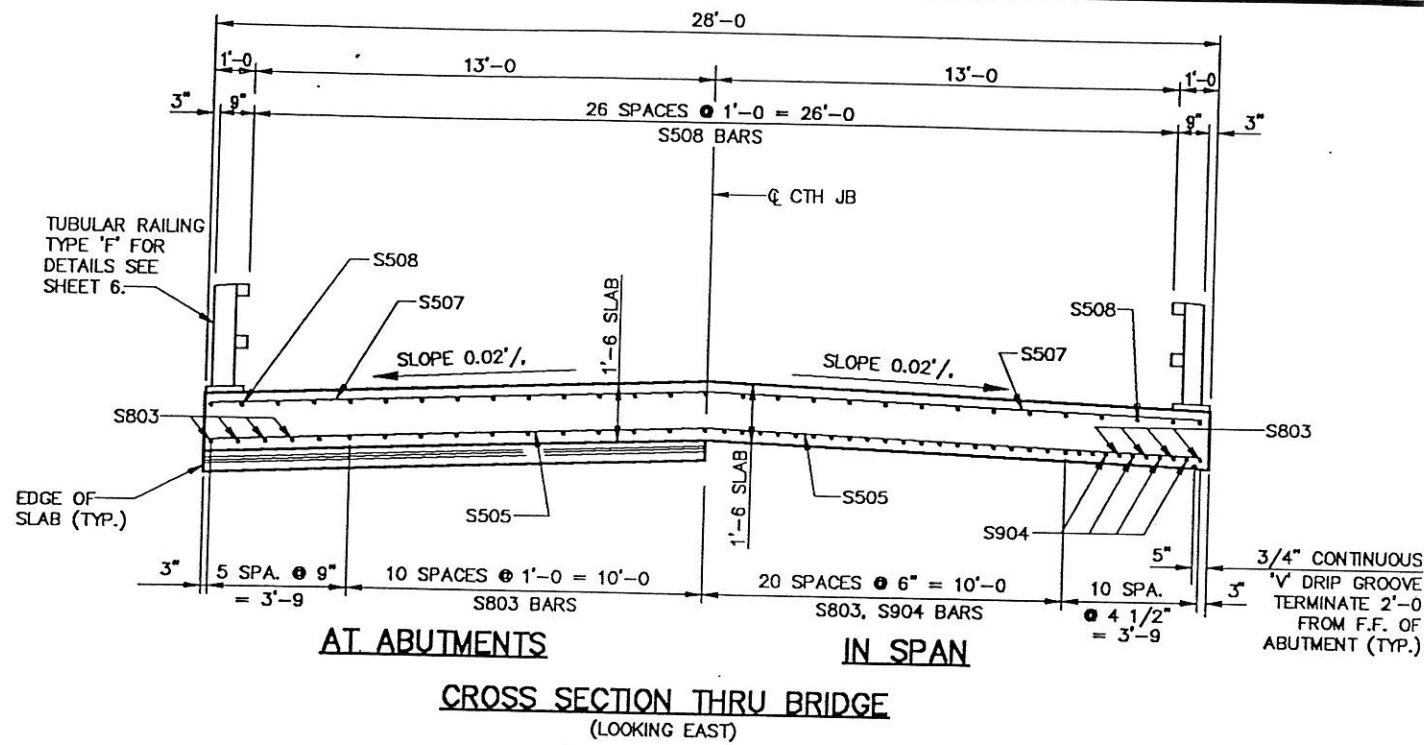
**CTH JB OVER DUTCH CREEK TRIBUTARY STRUCTURE B-32-194**

**ABUTMENT DETAILS**

**MSA** TRANSPORTATION & MUNICIPAL & REMEDIATION DEVELOPMENT & ENVIRONMENTAL  
 1230 South Boulevard, Boston, MA 02115  
 608-388-2771 1-800-382-4605 Fax: 608-388-2770

P.R. 852      CADD # 93964304      SHEET 04 of 06

DRAWN BY RLR      DATE 4-29-97      CHECKED BY JMB      PLOT SCALE 1 = 64      FILE NO. 939643



CAMBER SPAN AS SHOWN TO PROVIDE FOR DEADLOAD DEFLECTION AND FUTURE PLASTIC FLOW. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT. DEADLOAD DEFLECTION ONLY APPROXIMATELY 1/4 OF CAMBER VALUES SHOWN.

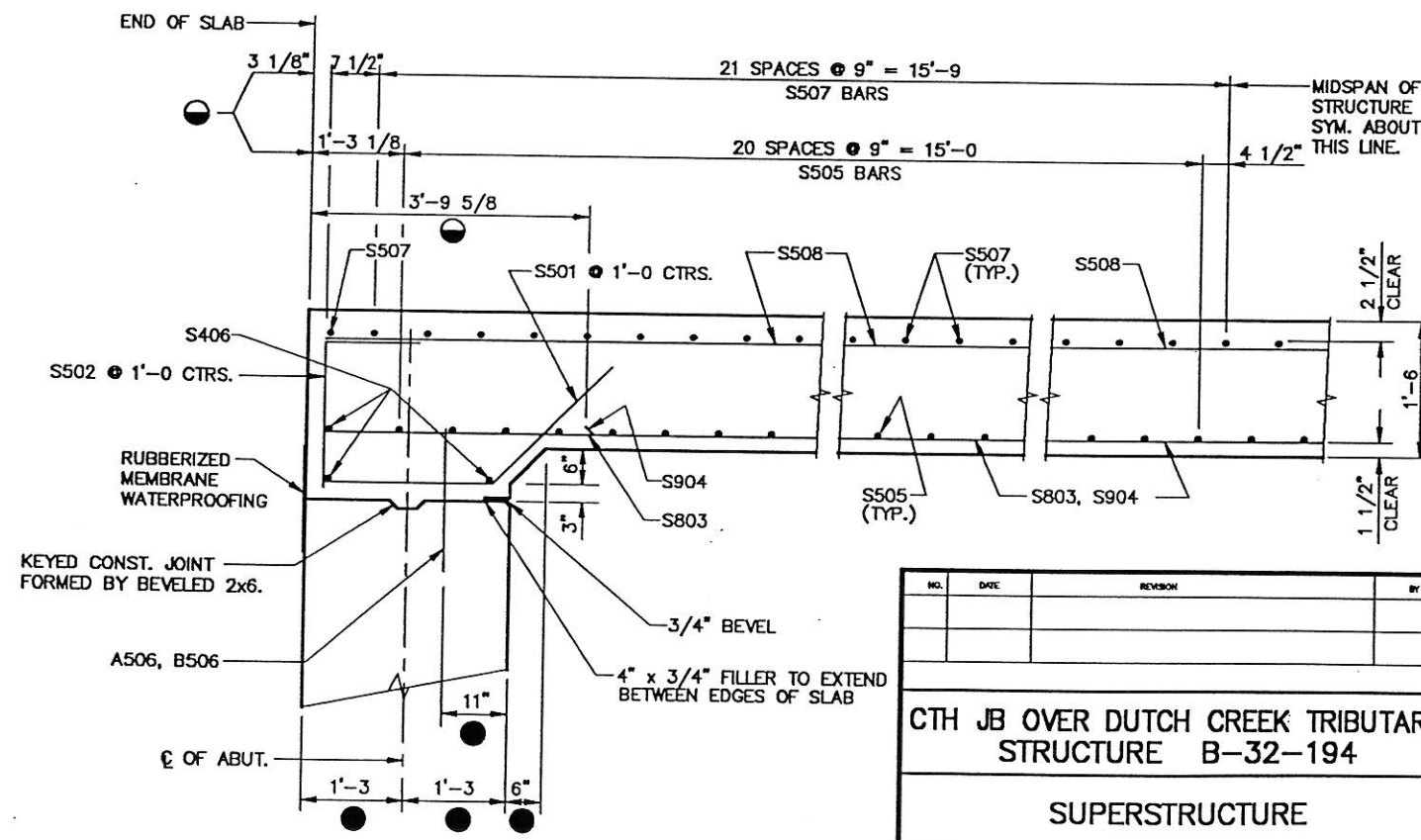
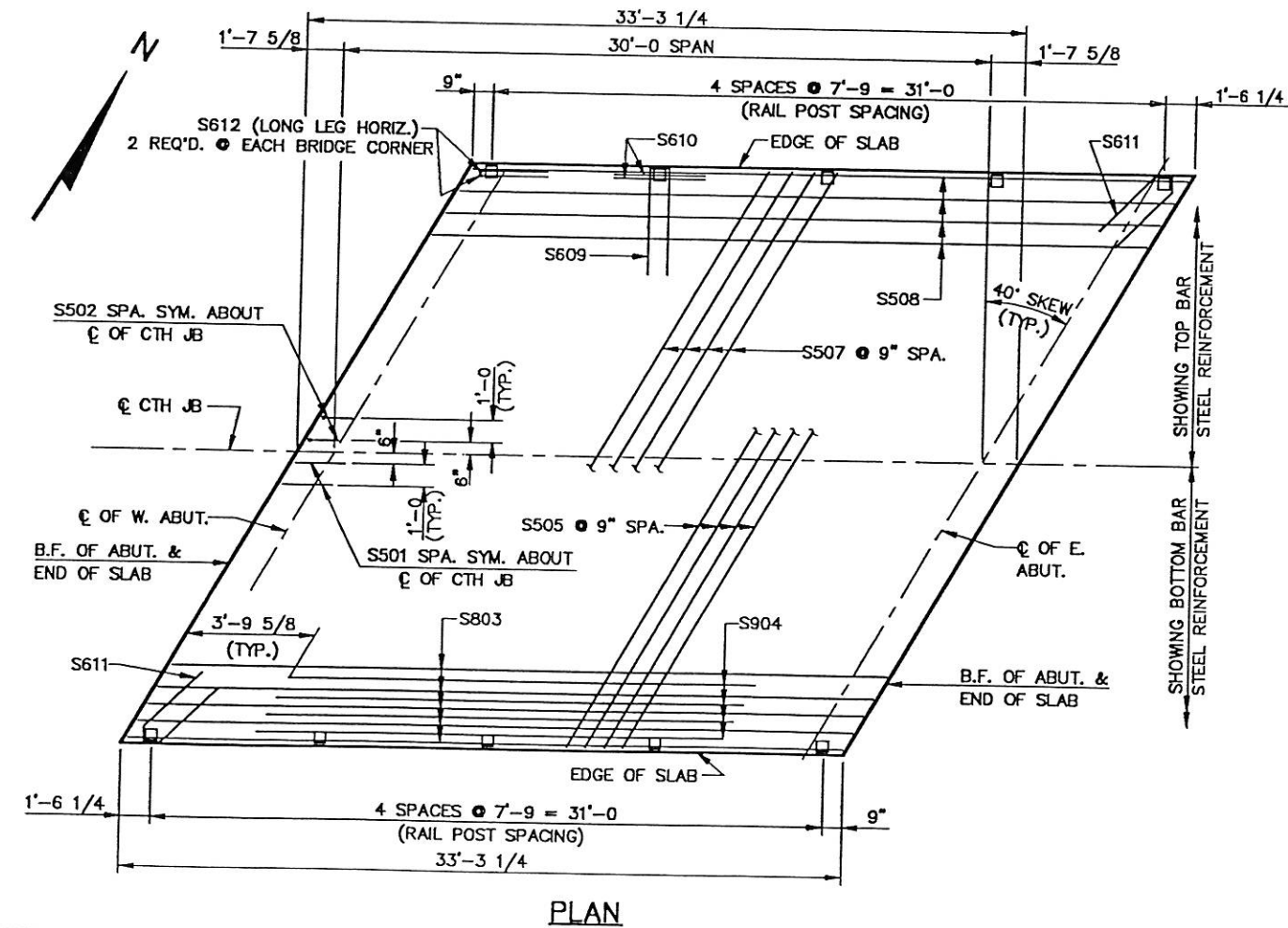
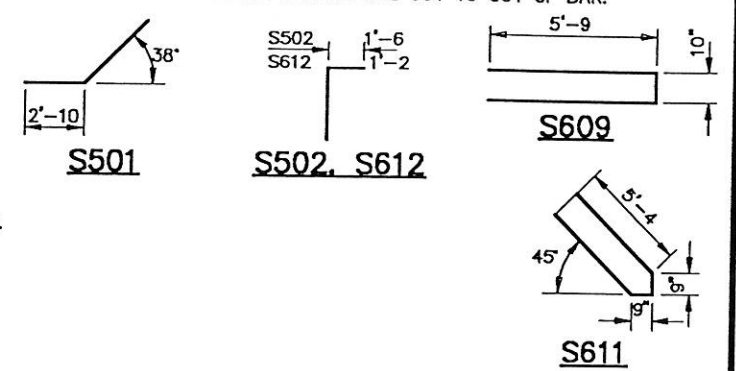
**GENERAL NOTES**

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).  
 ALTERNATE TOP LONGITUDINAL BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.  
 ALL TRANSVERSE BAR STEEL REINFORCEMENT SHALL BE PLACED ON THE SKEW.

**BILL OF BARS**  
 COATED 3170 LBS.  
 UNCOATED 7350 LBS.

MARK	NO. REQ'D.		LENGTH	BENT	LOCATION
	COATED	UN-COATED			
S501		56	5-0	X	DIAPHRAGM @ ABUTS. - LONGIT.
S502	56		3-3	X	" " " " - VERT.
S803		31	32-9		SLAB BOTTOM - LONGIT.
S904		30	25-8		" " " " - LONGIT.
S505		42	36-1		" " " " - TRANS.
S406		6	36-1		" " " " @ ABUT. - "
S507	45		36-1		" " " " TOP - "
S508	29		32-9		" " " " - LONGIT.
S609	8		12-0	X	" " " " RAIL POST, ONE PER POST
S610	12		4-0		" " " " TWO - "
S611	2		12-0	X	" " " " CORNER POSTS AS NOTED
S612	8		4-0	X	" " " " " " " " " "

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.



- - DIMENSIONS ARE GIVEN PARALLEL TO THE  $\phi$  OF CTH JB.
- - DIMENSIONS ARE GIVEN NORMAL TO THE  $\phi$  OF ABUTMENTS.

NO.	DATE	REVISION	BY

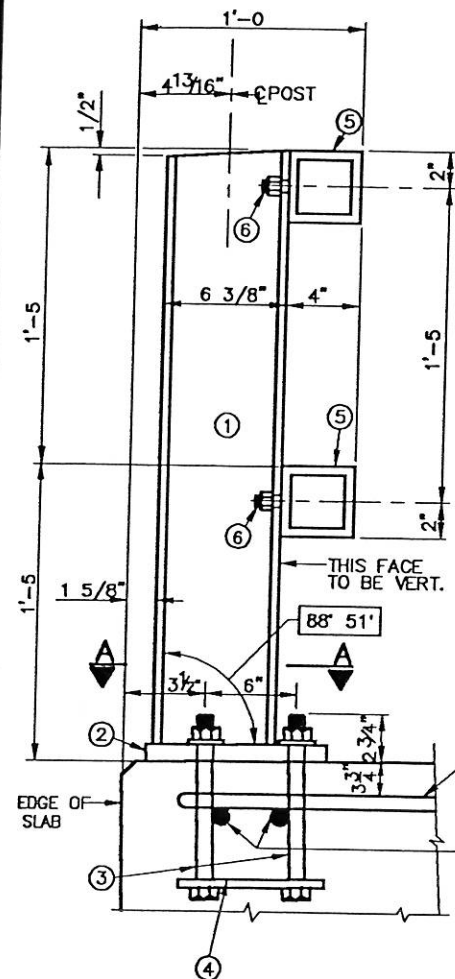
**CTH JB OVER DUTCH CREEK TRIBUTARY  
STRUCTURE B-32-194**

**SUPERSTRUCTURE**

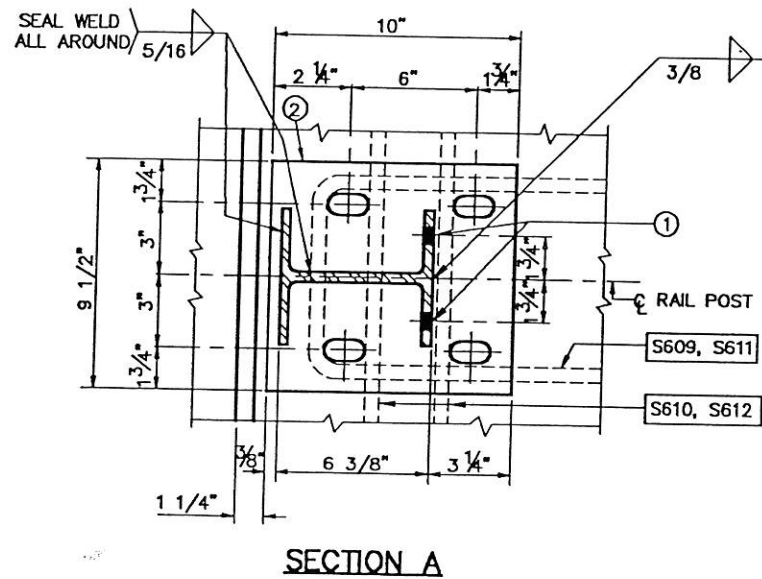
**MSA**  
 TRANSPORTATION & MUNICIPAL & REMEDIATION  
 DEVELOPMENT & ENVIRONMENTAL  
 1230 South Boulevard, Broomfield, CO 80020  
 303-440-1771 1-800-362-6028 Fax: 303-440-1770

PROFESSIONAL ENGINEER

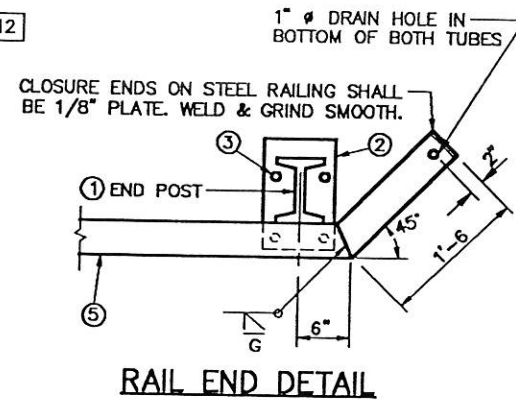
P.R. 852      C.O.D. # 93964305  
 DRAWN BY RLR      DATE 5-16-97      SHEET 05 of 06  
 CHECKED BY JMB      PLOT SCALE 1 = 64      FILE NO. 939643



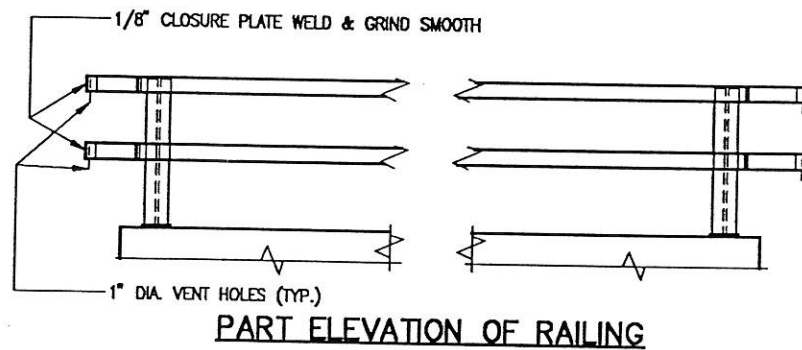
SECTION C THRU RAILING



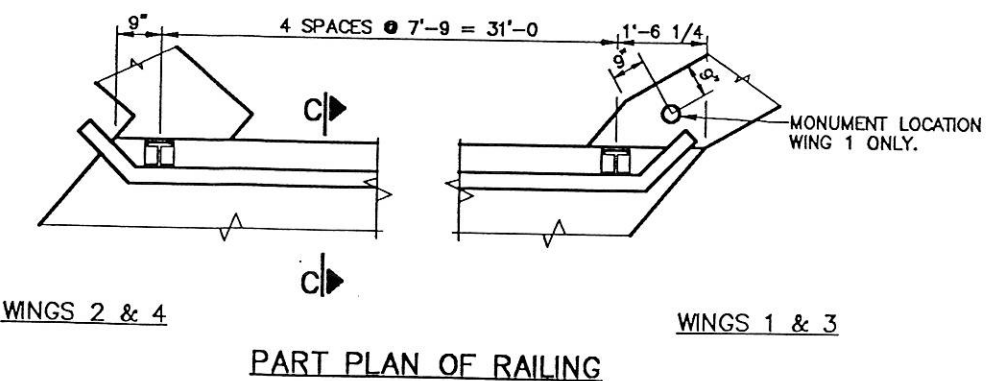
SECTION A



RAIL END DETAIL

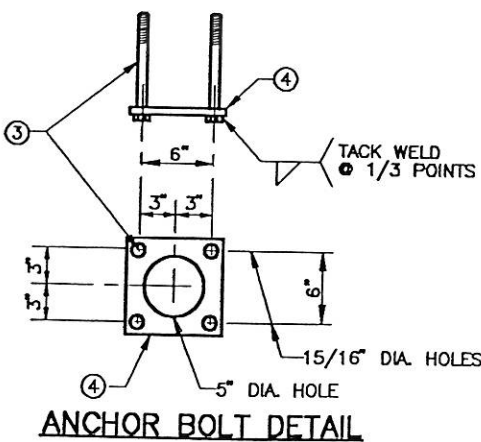


PART ELEVATION OF RAILING

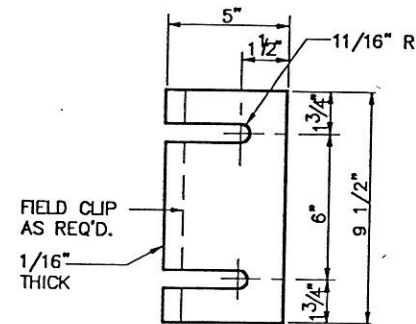


WINGS 2 & 4

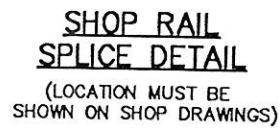
WINGS 1 & 3



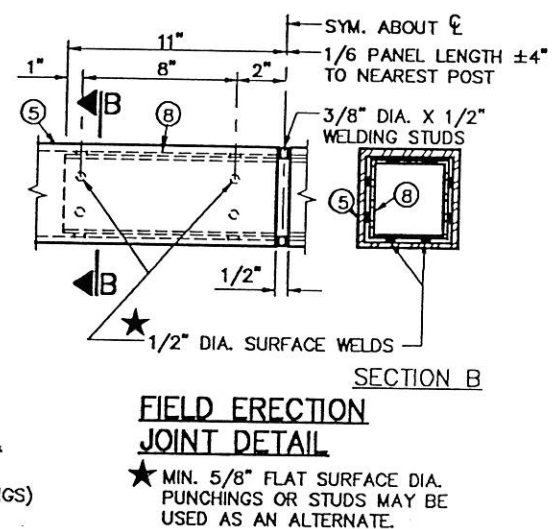
ANCHOR BOLT DETAIL



POST SHIM DETAIL  
(4 PER POST)



SHOP RAIL SPLICE DETAIL  
(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



FIELD ERECTION JOINT DETAIL  
★ MIN. 5/8" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

**LEGEND**

- ① W 6 x 25 WITH 1 1/4" DIA. HOLES ON EACH SIDE OF POST FLANGE FOR STUD (6). CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POST NORMAL TO GRADE LINE.
- ② PLATE 1" x 9 1/2" x 10" WITH 1 1/16" x 1 1/2" SLOTTED HOLES FOR ANCHOR BOLTS (3). WELD TO (1) AS SHOWN.
- ③ A325 - 7/8" DIA. HEX BOLT (ZINC COATED) WITH A325 NUT AND WASHER. 14" LONG AT END POSTS, 12" LONG AT ALL OTHER POST LOCATIONS. 4 REQUIRED PER POST. THREAD 3" AND PLACE NORMAL TO PLATE (2). CHAMFER TOP OF BOLTS BEFORE THREADING.
- ④ 1/4" x 8" x 8" FLAT BAR, WITH 15/16" DIA. HOLES FOR ANCHOR BOLTS (3).
- ⑤ TS 4 x 4 x .25 STRUCTURAL TUBING, CONFORMING TO A.S.T.M. DESIGNATION A501 OR A500 GRADE B ATTACH TO (1) WITH STUDS (6).
- ⑥ 5/8" DIA. x 1 1/2" LG. SHOP WELDED STUDS WITH HEX. NUT AND 2" WASHERS. 4 PER POST REQ'D. (2 REQ'D AT EACH LOCATION.)
- ⑦ SQUARE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE 'SLIDING FIT' WITH A MINIMUM OUT TO OUT DIMENSION OF 3 13/32".
- ⑧ TS 3 x 3 x .25 x 1'-10" LONG. PROVIDE 1/2" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF (5). PROVIDE 3/8" DIA. x 1/2" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

**GENERAL NOTES**

BID ITEM SHALL BE " TUBULAR RAILING TYPE 'F' " WHICH INCLUDES ALL ITEMS SHOWN.

RAILING SHALL BE FABRICATED IN 2 PANEL LENGTHS.

POSTS BASE PLATES, (2) SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

ALL MATERIAL, EXCEPT ANCHORAGE DETAIL (NO. ③ & ④) SHALL BE ZINC COATED AFTER FABRICATION.

FILL BOLT SLOT OPENINGS IN POST BASE PLATE SHIMS AND PLATE (2) WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. SEAL BOTTOM EDGES OF PLATE (2) TO DECK.

ALL MATERIALS USED IN FABRICATION SHALL BE MADE FROM MATERIALS CONFORMING TO A.S.T.M. DESIGNATION A709 GRADE 36 UNLESS NOTED OTHERWISE.

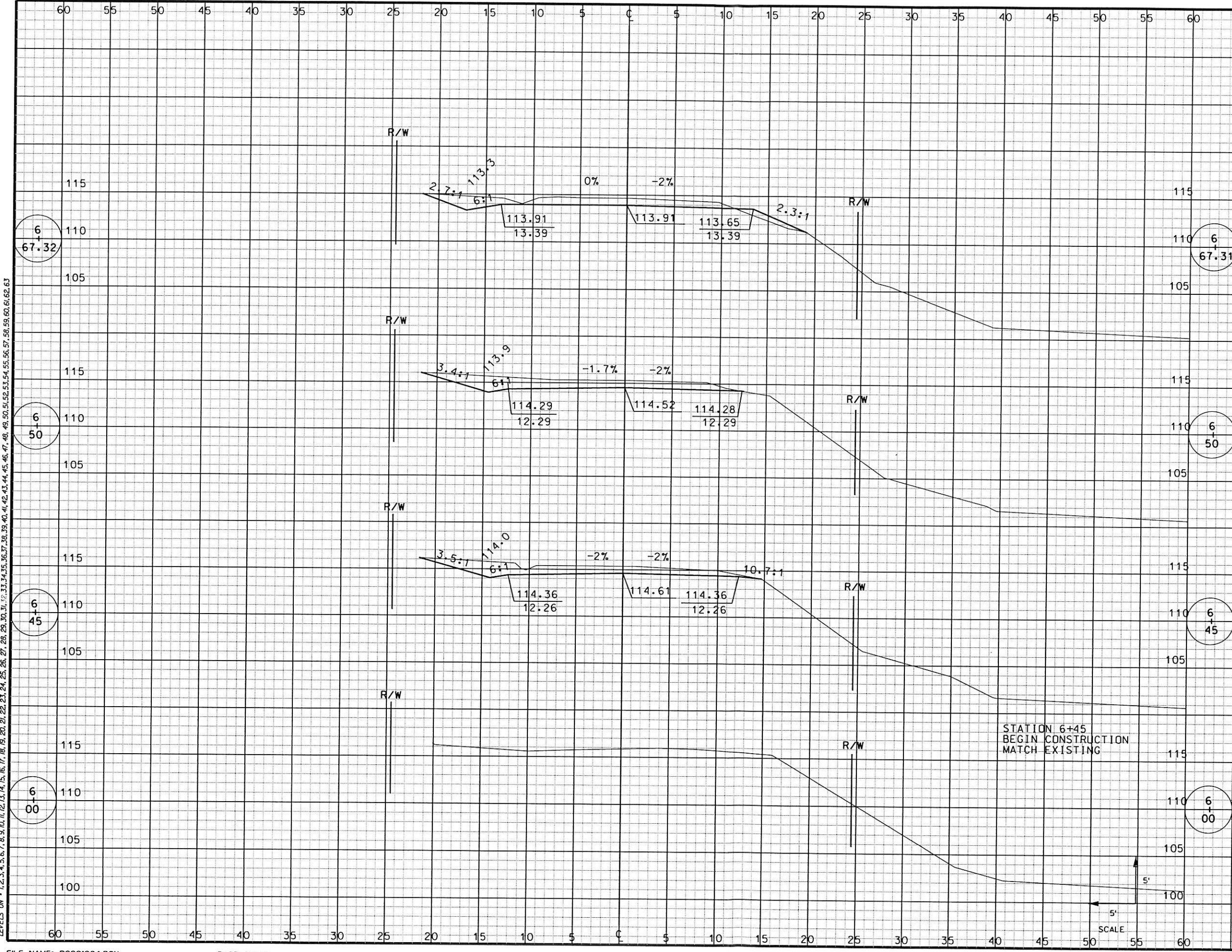
STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT.

PRIOR TO ZINC COATING, ALL STEEL RAILING POSTS AND COLD FORMED TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY S.S.P.C. SPECIFICATIONS.

ALL POST SPACINGS ARE MEASURED HORIZONTALLY ALONG CENTERLINE OF POST BASE.

WELD WITH E70 ELECTRODES.

NO.	DATE	REVISION	BY
<b>CTH JB OVER DUTCH CREEK TRIBUTARY STRUCTURE B-32-194</b>			
<b>TUBULAR STEEL RAILING TYPE 'F'</b>			
<b>MSA</b> TRANSPORTATION & MUNICIPAL & RECREATION DEVELOPMENT & ENVIRONMENTAL 1220 South Boulevard, Bismarck, ND 58103 605-336-2771 1-800-342-4500 Fax: 605-336-8770 <small>PROFESSIONAL SERVICES</small>			
P.A. 852	CHD # 93964306	SHEET 06 of 06	
DRAWN BY RLR	DATE 4-30-97	FILE NO. 939643	
CHECKED BY JMB	PLOT SCALE 1 = 24		



STATION	DISTANCE	VOLUME		
		EXCAVATION		FILL
		UNCL		
6+67.31				
	17.3	17		1
6+50				
	5	6		0
6+45				
6+00				
<b>SHEET TOTAL</b>	<b>23</b>			<b>1</b>

PLOT SCALE:

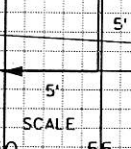
PLOT NAME:

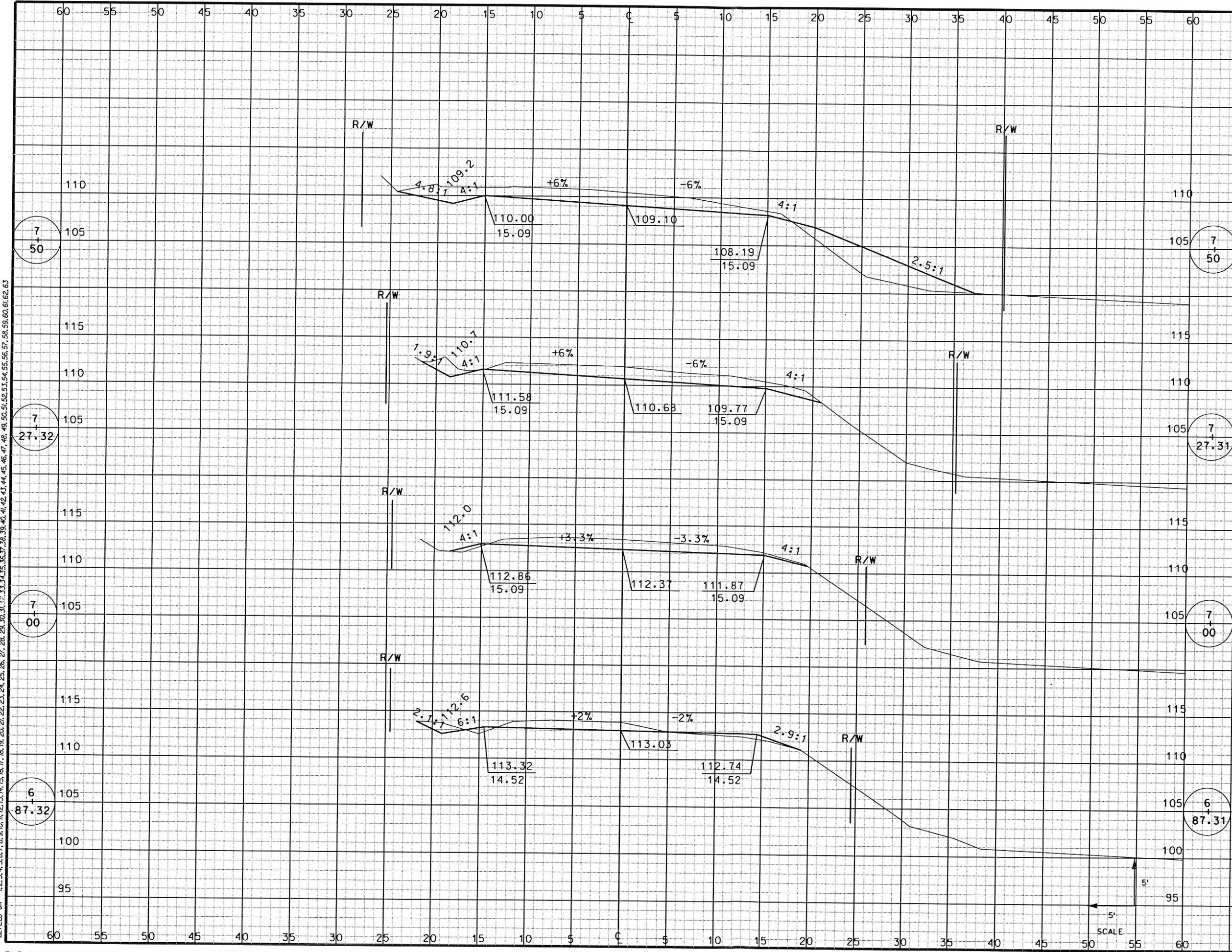
REV. DATE:

ORIGINATOR: DAVE WEISS

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

STATION 6+45  
 BEGIN CONSTRUCTION  
 MATCH EXISTING





STATION	DISTANCE	VOLUME		
		UNCL		FILL
7+50				
7+50	22.7	36		12
7+27.31				
7+27.31	27.3	33		1
7+00				
7+00	12.7	10		1
6+87.31				
6+87.31	20	14		3
<b>SHEET TOTAL</b>		<b>93</b>		<b>17</b>

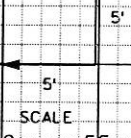
PLOT SCALE:

PLOT NAME:

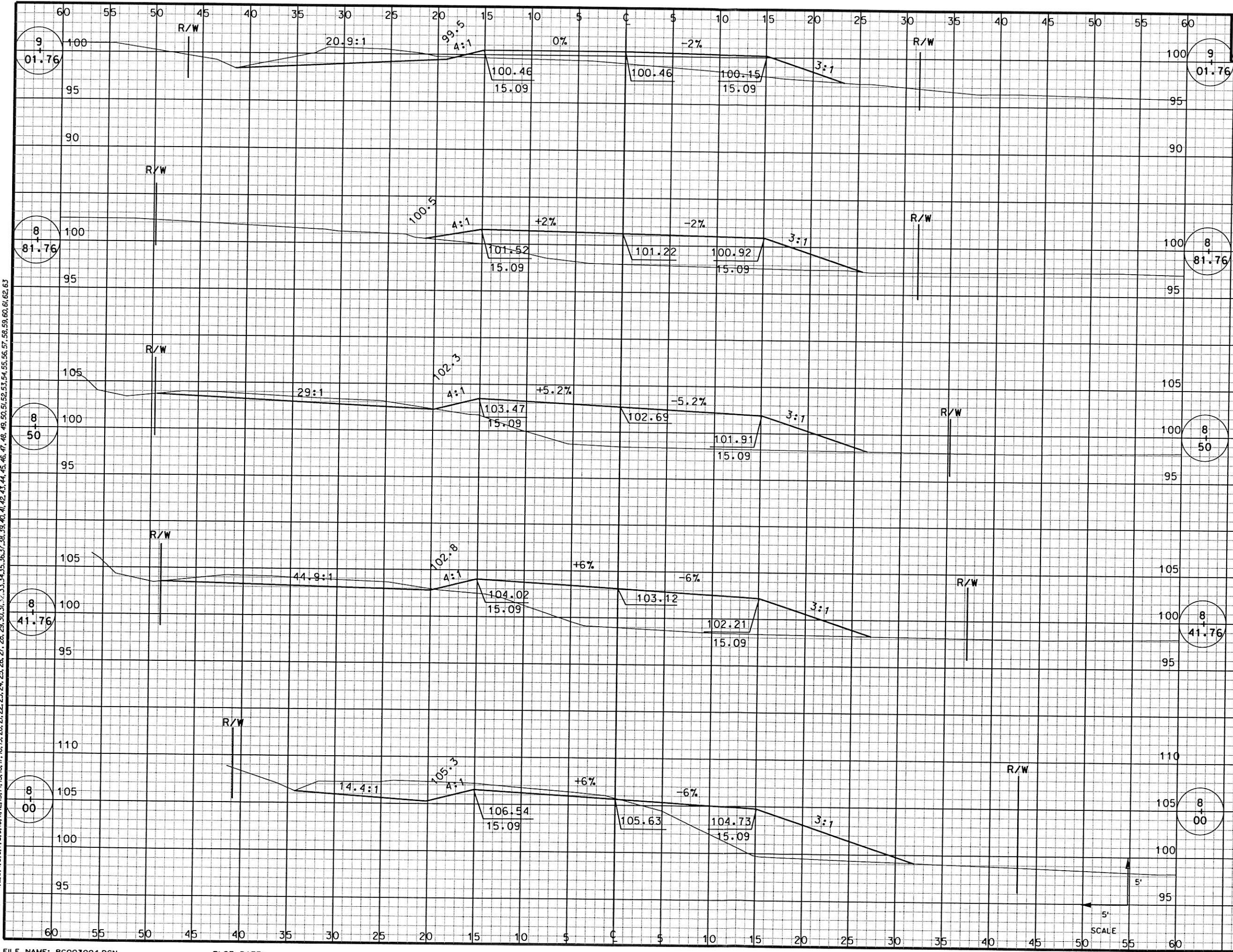
REV. DATE:

ORIGINATOR: DAVE WEISS

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



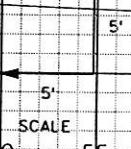
CROSS SECTIONS  
 CTH JB BRIDGE & APPROACHES  
 CTH JB LA CROSSE COUNTY, WISC.

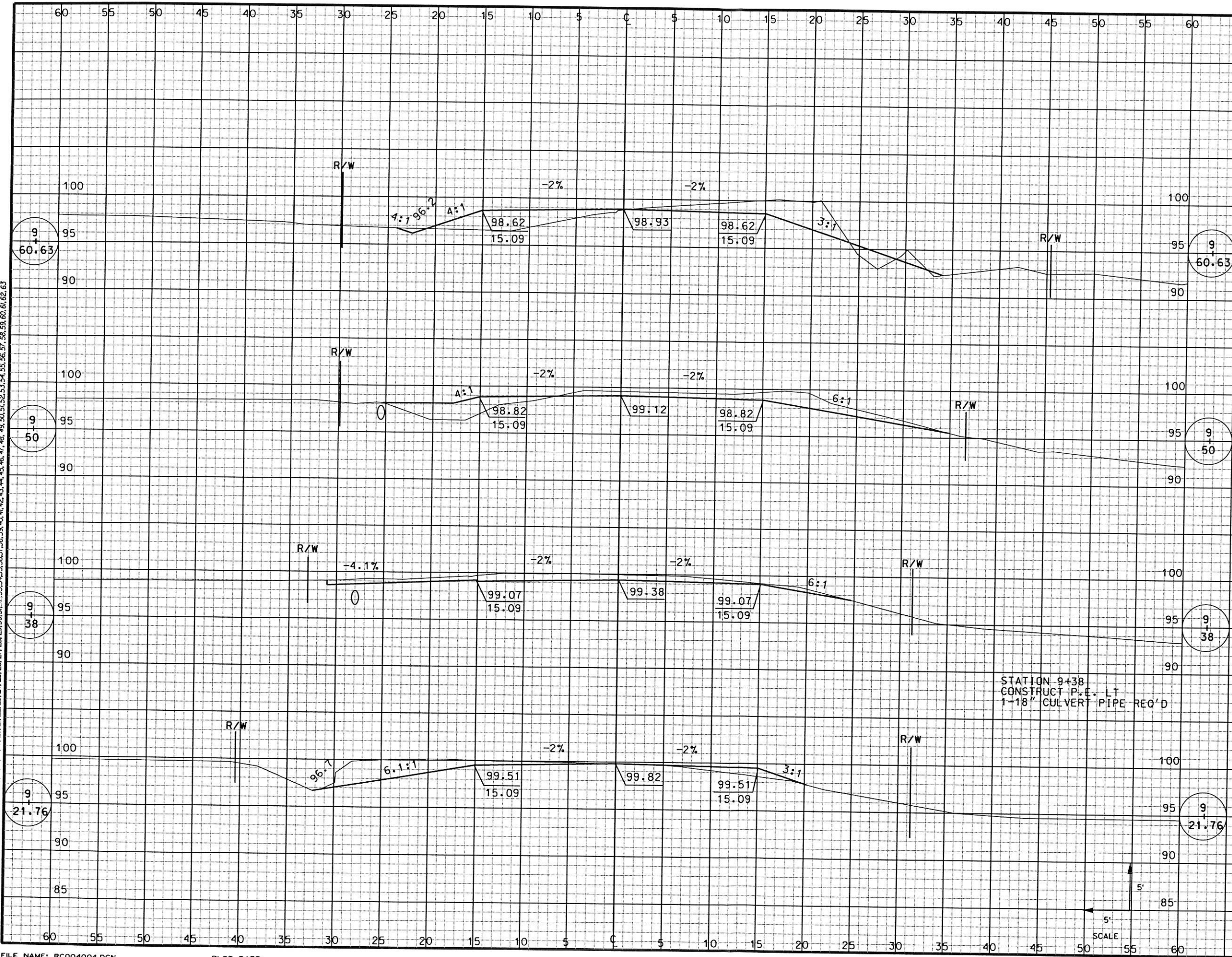


STATION	DISTANCE	VOLUME		
		UNCL		FILL
9+01.76	20	8		60
8+81.76	31.8	8		146
8+50	8.2	6		41
8+41.76	41.8	47		157
8+00	50	81		93
<b>SHEET TOTAL</b>	<b>150</b>			<b>497</b>

ORIGINATOR: DAVE WEISS  
 REV. DATE:  
 PLOT NAME:  
 PLOT SCALE:

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

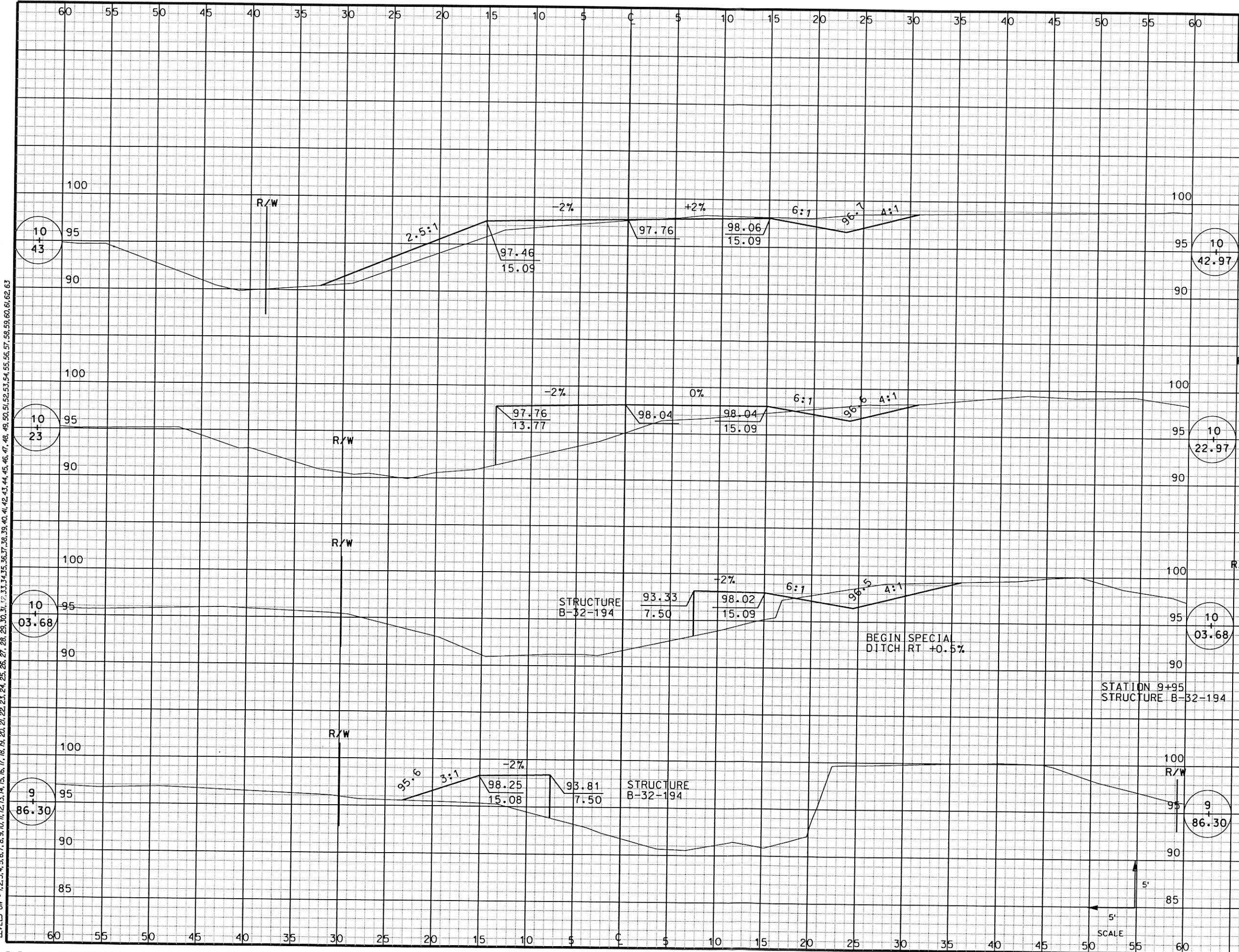




STATION	DISTANCE	VOLUME		
		EXCAVATION		FILL
		UNCL		
9+60.63	10.6	12		9
9+50	12	11		3
9+38	16.2	17		2
9+21.76	20	18		21
<b>SHEET TOTAL</b>		<b>58</b>		<b>35</b>

ORIGINATOR: DAVE WEISS  
 REV. DATE:  
 PLOT NAME:  
 PLOT SCALE:

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

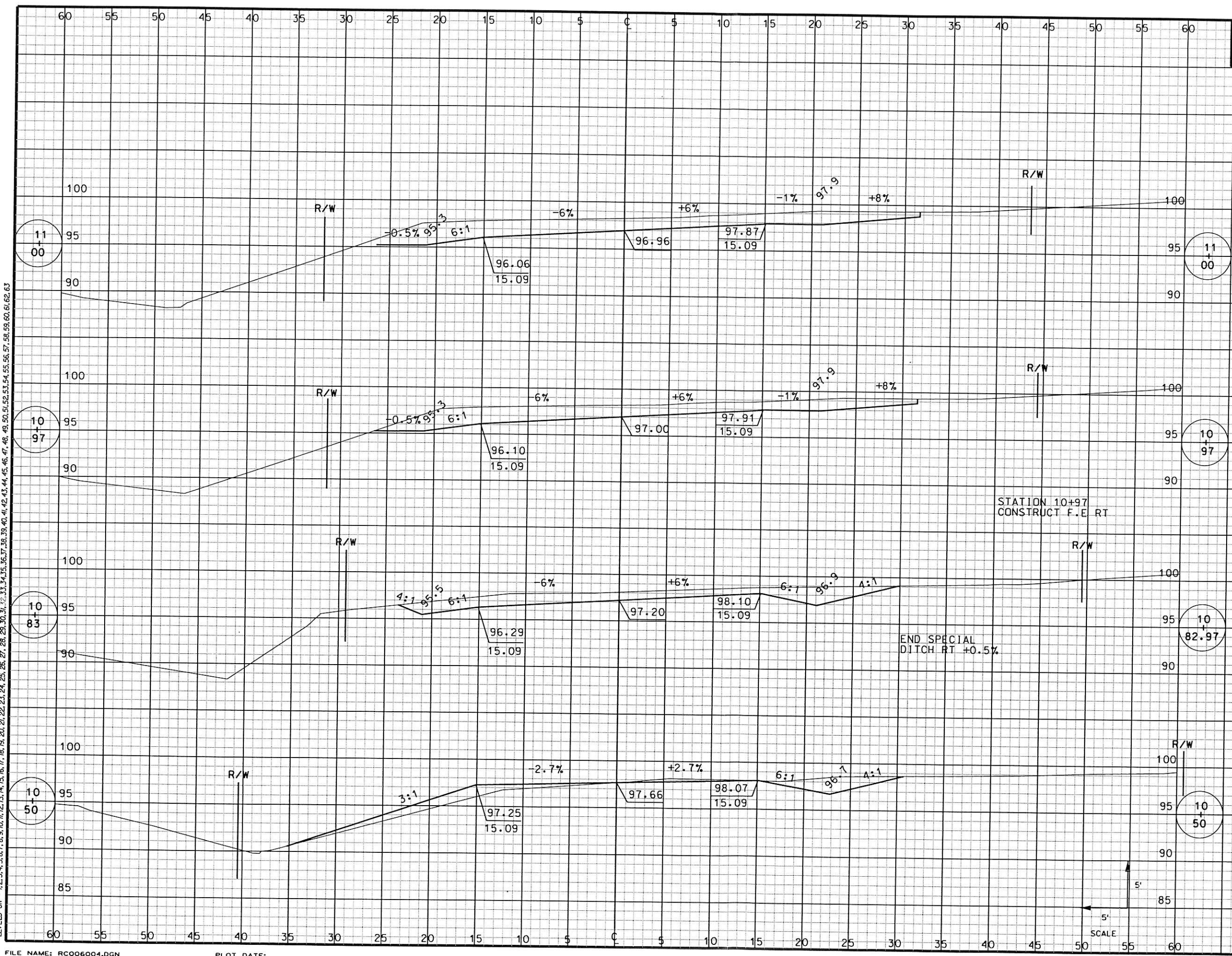


STATION	DISTANCE	VOLUME		
		EXCAVATION		FILL
		UNCL		
10+42.97	20	12		52
10+22.97	19.6	11		44
10+03.68	17.4	6		23
9+86.30	25.4	16		33
<b>SHEET TOTAL</b>	<b>45</b>			<b>152</b>

PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: DAVE WEISS

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

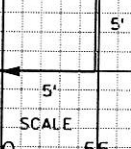


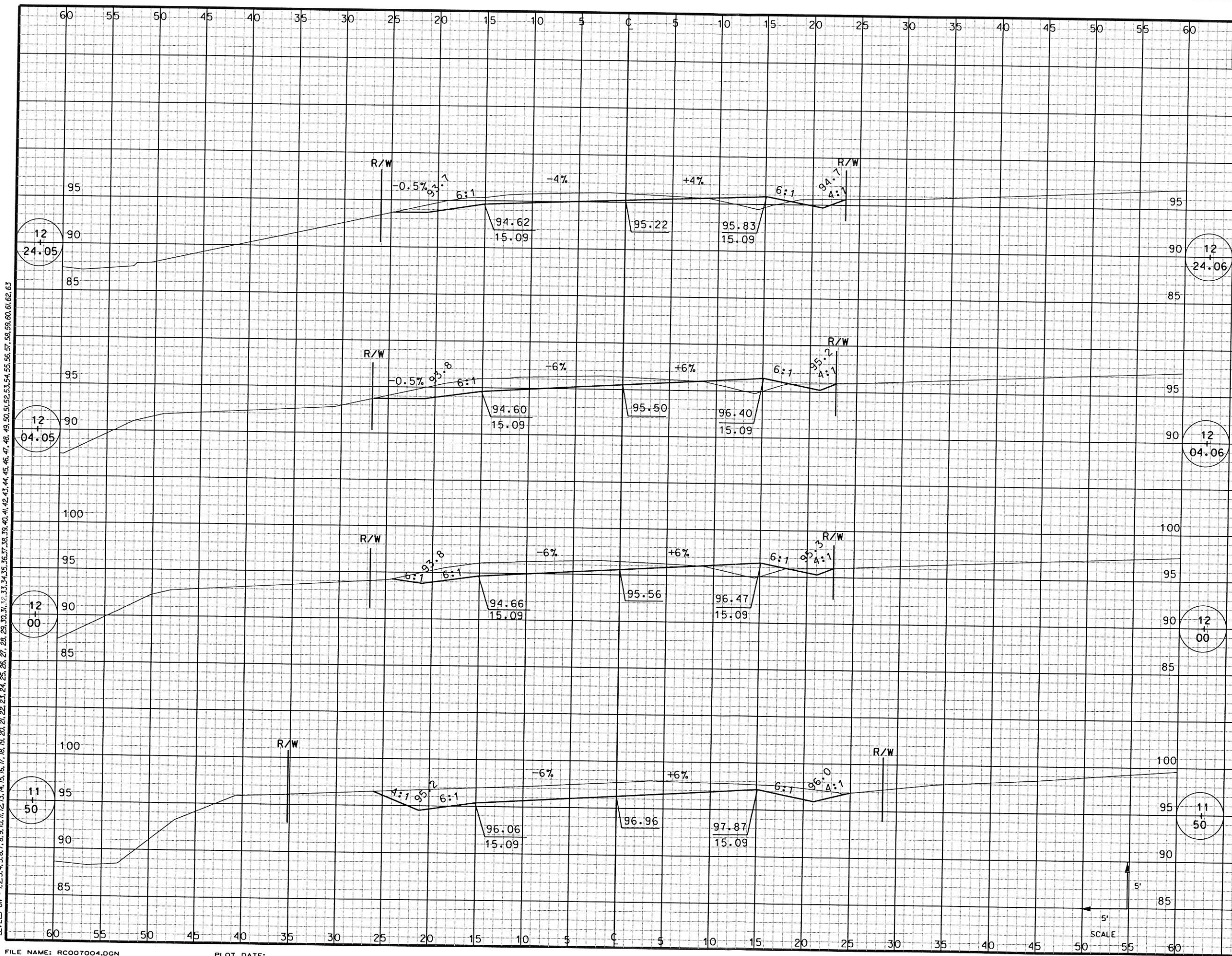


STATION	DISTANCE	VOLUME		
		UNCL		FILL
11+00				
	3	8		0
10+97				
	14	33		0
10+83				
	33	44		11
10+50				
	7	5		6
SHEET TOTAL		90		17

PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: DAVE WEISS

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

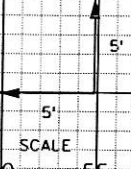


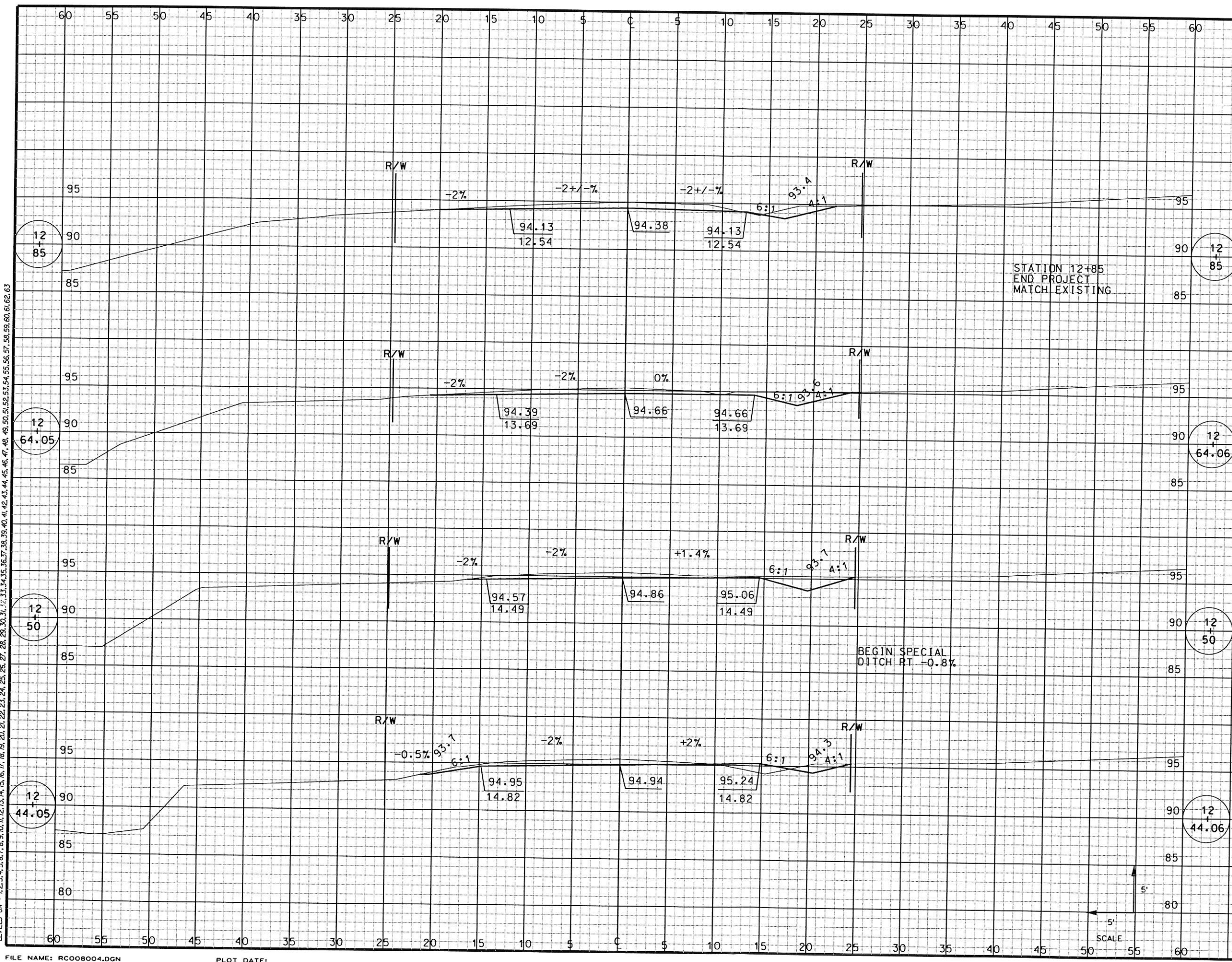


STATION	DISTANCE	VOLUME		
		UNCL	EXCAVATION	FILL
12+24.06				
12+04.06	20	21		5
12+00	4	5		1
12+00	50	88		8
11+50				
11+50	50	128		0
<b>SHEET TOTAL</b>	<b>50</b>	<b>242</b>		<b>14</b>

ORIGINATOR: DAVE WEISS  
 REV. DATE:  
 PLOT NAME:  
 PLOT SCALE:

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

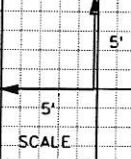


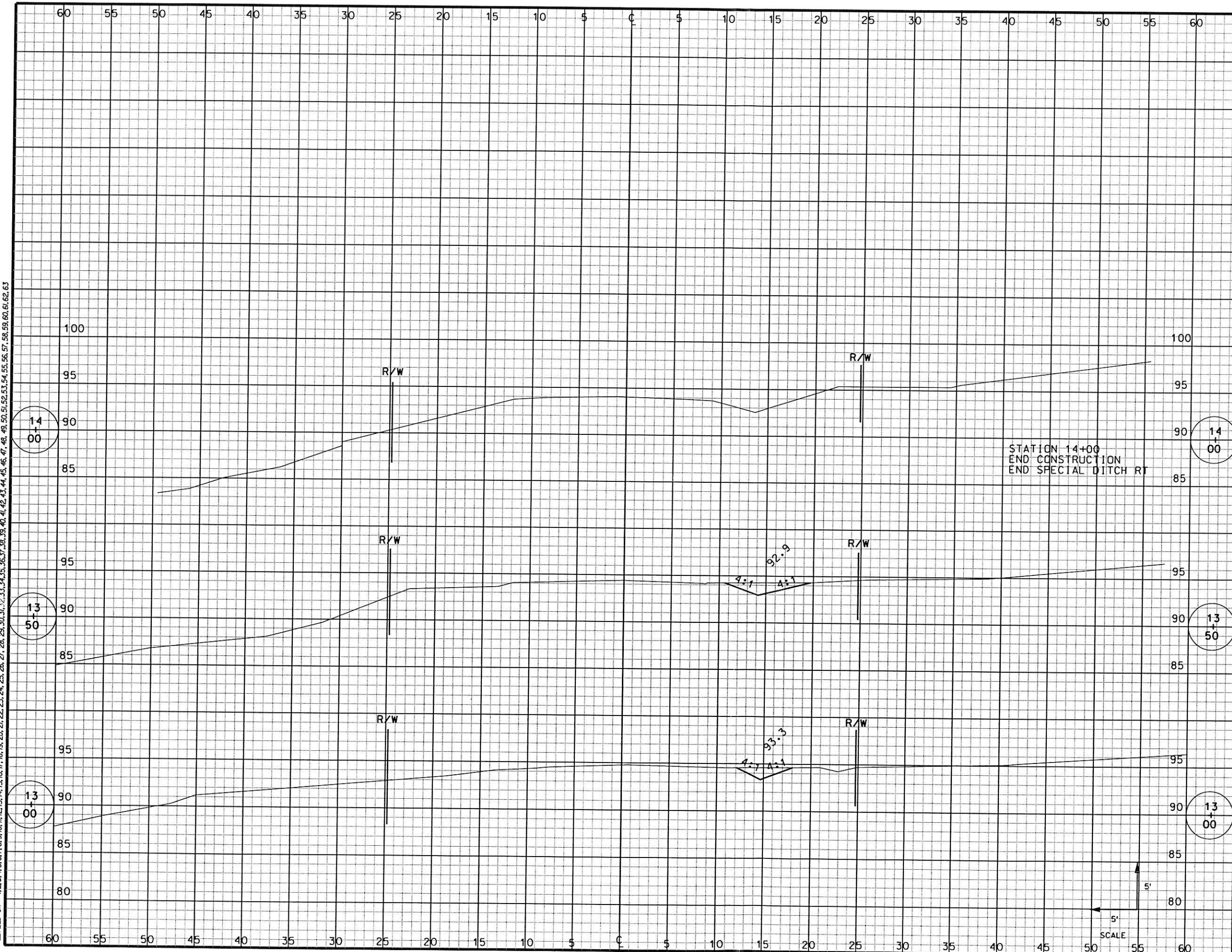


STATION	DISTANCE	VOLUME		
		EXCAVATION		FILL
		UNCL		
12+85				
	20	16		0
12+64.06				
	14	11		0
12+50				
	6	4		0
12+44.06				
	20	15		4
SHEET TOTAL		46		4

PLOT SCALE: \_\_\_\_\_  
 PLOT NAME: \_\_\_\_\_  
 REV. DATE: \_\_\_\_\_  
 ORIGINATOR: DAVE WEISS

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





STATION	DISTANCE	VOLUME		
		EXCAVATION		FILL
		UNCL		
14+00				
	50	6		0
13+50				
	50	9		0
13+00				
	15.6	7		0
<b>SHEET TOTAL</b>	<b>22</b>			<b>0</b>

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: DAVE WEISS

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