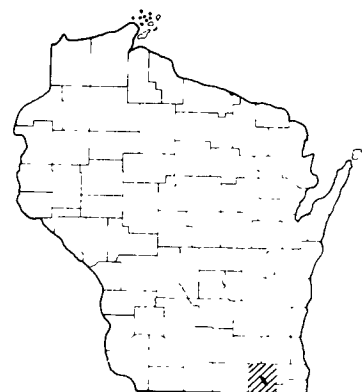


Index of Sheets

Sheet No. 1	Title
Sheet No. 2-2.43	Typical Cross Sections
Sheet No. 3	Estimate of Quantities
Sheet No. 3A-3C	Miscellaneous Quantities
Sheet No. 4-4.1	Right of Way Plat
Sheet No. 5-27	Plan and Profile Sta. 563+00 to Sta. 1104+00
Sheet No. 28-28.11	Standard Details
Sheet No. -	Drainage Structures
Sheet No. 29-41	Cross Sections



Design Designation

CONTROL OF ACCESS =	FULL
A.D.T. (1970)	= 6,250
A.D.T. (1990)	= 15,100
D.H.V.	= 3,020
D	= 70-30
T	= 11.7% (1970); 11.0% (1990)
V	= 70 MPH

Conventional Signs

State Line	-----	Culverts in Place	-----
County Line	-----	Culverts Required	-----
Township or Range Line	-----	Drop Inlet	-----
Section Line	-----	Power Pole	-----
New Right of Way Line	-----	Telephone or Telegraph Pole	-----
Present Right of Way Line	-----	Right of Way Markers	-----
Wire Fence { Woven	-----	Reference Stake for Hubs Only	-----
Barbed	-----	Marsh	-----
Lot Line	-----	Hedge	-----
Corporate or City Limits	-----	Trees	-----
Property Line	-----	Ground Elevation	Datum Line 73.9
Traveled Way or P.E.	-----	Grade Elevation	Datum Line 76.16
Railroads	-----		
Base or Survey Line	-----		

⊗ STEEL PLATE BEAM GUARD
⊗ CONG. MONUMENT WITH BRASS PLUG, 30' LT. AND 90° TO R

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED GENOA CITY - ELKHORN ROAD

(S.T.H. 50 - S.T.H. 67 SECTION)

U.S.H. 12
WALWORTH COUNTY

PROJECT IDENTIFICATION NUMBER	FEDERAL PROJECT DESIGNATION
1081-2-81,82	F 04-1(21)

Scales
Plan 1 in = 100 ft
Profile 1 in = 100 ft Vert 1 in = 10 ft
Cross Sections 1 in = 10 ft

STA. 1105.00 R = STA. 1105.00 R.
END OF PROJ. F 04-1(20)

NOTE - SEE SHEET 2.44 FOR
LIST OF EXISTING BENCH MARKS

END OF PROJECT F 04-1(21) CONTRACT 2/1081-2-82
STA. 1109+00 R

450' S & 55' E (GRID DIST) OF THE
SE CORNER OF SECTION 24 T 3 N, R 16 E
= STA. 1109+00 R PROJECT F 04-1(17)
WISCONSIN PLANE COORDINATES N 257,635.26
(SOUTH ZONE) E 2,392,061.05

STA. 1042+54.67 PROJECT F 04-1(21) =
STA. 1042+54.67 PROJECT F 04-1(19)

STA. 1007+80 PROJECT F 04-1(21) =
STA. 1007+80 PROJECT F 04-1(18)

STA. 1000+00 PROJECT F 04-1(21) =
STA. 1000+00 PROJECT F 04-1(16) END &
STA. 1000+00 PROJECT F 04-1(17) BEGIN

STA. 917+76.79 PROJECT F 04-1(21) =
STA. 917+76.79 PROJECT F 04-1(15) END &
STA. 917+76.79 PROJECT F 04-1(16) BEGIN

BEGINNING OF PROJECT F 04-1(21) CONTRACT 2/1081-2-82

= STA. 919+16.69 R
1045' S & 1335' E (GRID DIST) OF THE N 1/4 CORNER
OF SECTION 8 T 2 N, R 17 E
WISCONSIN PLANE COORDINATES N 241,450.01
(SOUTH ZONE) E 2,401,669.62

END OF PROJECT F 04-1(21) CONTRACT 1/1081-2-81

= STA. 917+76.79 R
1180' S & 1330' W (GRID DIST) OF THE N.E. CORNER OF
SECTION 8 T 2 N, R 17 E
WISCONSIN PLANE COORDINATES N 241,323.00
(SOUTH ZONE) E 2,401,728.27

STA. 731+00 PROJECT F 04-1(21) =
STA. 731+00 PROJECT F 04-1(15) BEGIN

STA. 597+00 PROJECT F 04-1(21) =
STA. 597+00 PROJECT F 04-1(11) END

BEGINNING OF PROJECT F 04-1(21) CONTRACT 1/1081-2-81

= STA. 563+00 R
280' S & 1025' E (GRID DIST) OF THE N 1/4 CORNER
SECTION 31 T 2 N, R 18 E
WISCONSIN PLANE COORDINATES N 220,943.54
(SOUTH ZONE) E 2,428,333.40

= STA. 563+00, END PROJECTS F 04-1(12) & (13)
= STA. 563+00 PROJECT F 04-1(20) BEGIN

EXCEPTIONS TO NET LENGTH OF R

Sta. 598+02.74 to Sta. 598+37.25 (B-64-30)	
621+44.25 " " 623+33.75 (B-64-32 & 33)	
693+01.30 " " 693+56.70 (B-64-34)	
701+40.10 " " 702+83.30 (B-64-35 & 36)	
731+44.12 " " 731+90.00 (B-64-37 & 38)	
867+50.53 " " 867+87.83 (B-64-61)	
917+76.79 " " 919+16.69 (B-64-41 & 42)	
933+55.53 " " 935+46.58 (B-64-44 & 43)	
1042+54.67 " " 1043+85.85 (B-64-46 & 47)	

Layout

Scale 0 1 2 MI.

Total Net Length of Centerline = 9.441 MI. RURAL
" " " " = 0.717 MI. MCPL.
TOTAL = 10.158 MI.

CONTRACTOR -
JOS. P. BONNESS, INC.,
SUB-CONTRACTORS -
B.R. AMON AND SONS - BIT. CONC.
SWEENEY BROS INC. - FINISHING
ED KRAEMER & SONS - GRAVEL SHOULDERS
WINGRA STONE CO. - " "
WM. E. BRINKMAN, JR. - PAUT. TERMINAL ANCHORS
YAHARA MATERIALS INC. - WASHED AGG.
JAMES CAPE & SONS INC. - CONC. PAVING

CONSTRUCTION STARTED 5-19-69
CONSTRUCTION COMPLETED 10-17-69

PROJECT ENGINEER -
C.J. BENZ & R.H. SCHEEL

PROJECT DIARY - #1861

CONTROL OF ACCESS
WITHIN LIMITS OF THE PROJECT
WHERE CONTROL OF ACCESS LINE
IS SHOWN THUS
NO ACCESS IS PERMITTED TO THE
HIGHWAY TRAFFIC LANES EXCEPT
BY RAMPS AT INTERCHANGES.

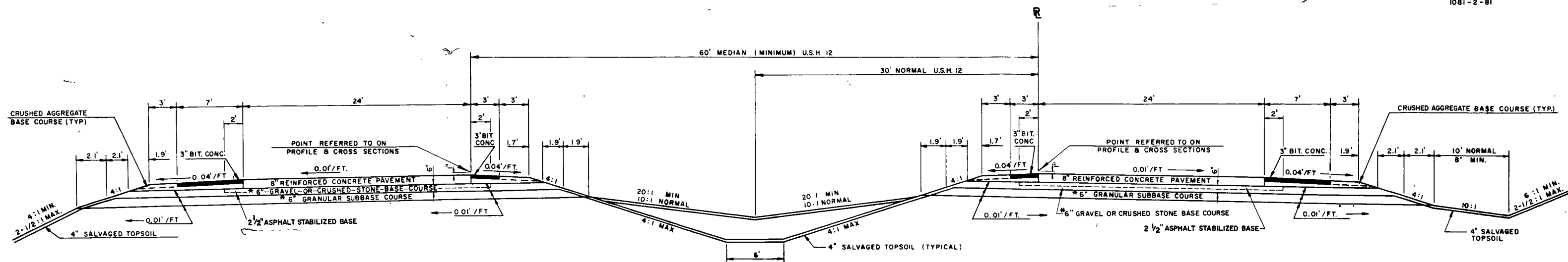
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
Surveyor: D.C. & CO. S	Note Book
District Computer: T.L. & K.B.	M.O. Checker: R.L.C.
District Checker: F.W.N. & C.B.	Correct
Date: 2/24/69	District Engineer
Date: 3/13/69	Chief Design Engineer
Date: 3/14/69	State Highway Engineer
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION BUREAU OF PUBLIC ROADS	
REGION 4 WISCONSIN DIVISION	
Approved	Division Engineer
Date	

F 04-1(21)



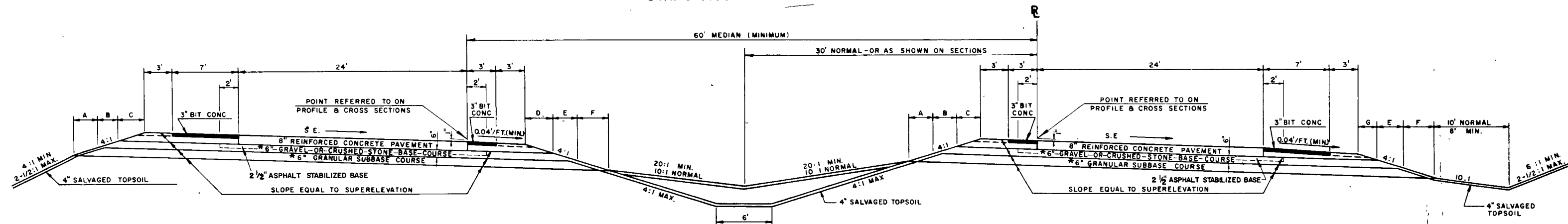
S.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-11(21)	2.0	41

1081-2-81



TYPICAL NORMAL DUAL HIGHWAY SECTION - 4 LANE DIVIDED, 60' MEDIAN
STA. 563+00 TO STA. 731+00 U.S.H. 12 **

NOTE:
* IN PLACE



TYPICAL SUPERELEVATED DUAL HIGHWAY SECTION - 4 LANE DIVIDED, 60' MEDIAN
STA. 563+00 - STA. 731+00 **

** FOR LOCATIONS OF 9" PAVEMENT
SEE SHEET 2.3

CONVENTIONAL SIGNS

EXISTING CULVERTS	BARN	8
PROPOSED CULVERTS	SHED	S
EXISTING MANHOLE	SILLO	OS
PROPOSED MANHOLE	RESTAURANT	R
DRAINAGE COURSE	CHURCH	+
DITCH DIKE	FOUNDATION	F
EXISTING WATER PIPE	SIDEWALK	
EXISTING HYDRANT	LIGHT POLE	
EXISTING WATER VALVE	TRAFFIC SIGNAL	
EXISTING SANITARY SEWER PIPE	IRON PIPE	O.I.P.
UNDERGROUND CABLE	CULVERT PIPE	C.P.
STORM SEWER	CORRUGATED METAL CULVERT PIPE	C.M.C.P.
HIGH TENSION LINE AND TOWERS	REINFORCED CONCRETE CULVERT PIPE	R.C.C.P.
QUARTER LINE	RIGHT HAND FORWARD	R.H.F.
SIXTEENTH LINE	LEFT HAND FORWARD	L.H.F.
EXISTING GUARD RAIL	LIMITED HIGHWAY EASEMENT	L.H.E.
PROPOSED PAVEMENT	REMOVE ADVERSE CROWN, SUPERELEVATED AT NORMAL CROWN SLOPE	R.C.
EXISTING CATCH BASIN	NORMAL CROWN	N.C.
EXISTING WELL	TRANSITION LENGTH FOR SUPERELEVATION	T.L.
SIGN	TANGENT RUNOUT	T.R.
EXISTING UNDERGROUND CABLE	REMOVE PAVEMENT	
WARNING SIGN OR POLE	NO ACCESS LINE	
BALANCE POINT (SHOWN ON PROFILE)		
HOUSE		
GARAGE		

SUPERELEVATION TABLE

Dc	S E	A	B	C	D	E	F	G
0°-15'	0.02'/FT	1.9	1.8	2.8	2.7	2.2	2.2	2.4
0°-45'	0.03'/FT	1.8	1.8	2.7	3.1	2.2	2.3	3.0
1°-00'	0.035'/FT	1.8	1.8	2.6	3.4	2.3	3.5	3.3
1°-15'	0.042'/FT	1.7	1.7	2.6	3.6	2.4	3.6	3.6
1°-30'	0.045'/FT	1.7	1.7	2.5	3.8	2.5	3.8	3.8
2°-00'	0.056'/FT	1.6	1.6	2.5	3.9	2.6	3.9	3.9

ROTATION ABOUT MEDIAN EDGE OF PAVEMENTS

TYPICAL CROSS SECTION
FOR

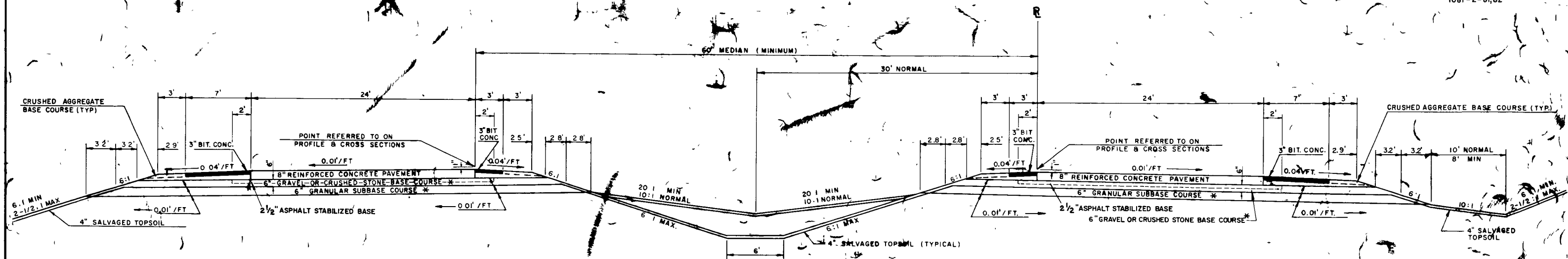
GENOA CITY-ELKHORN ROAD

U. S. H. 12

WALWORTH COUNTY

B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F 04-1121	21	41

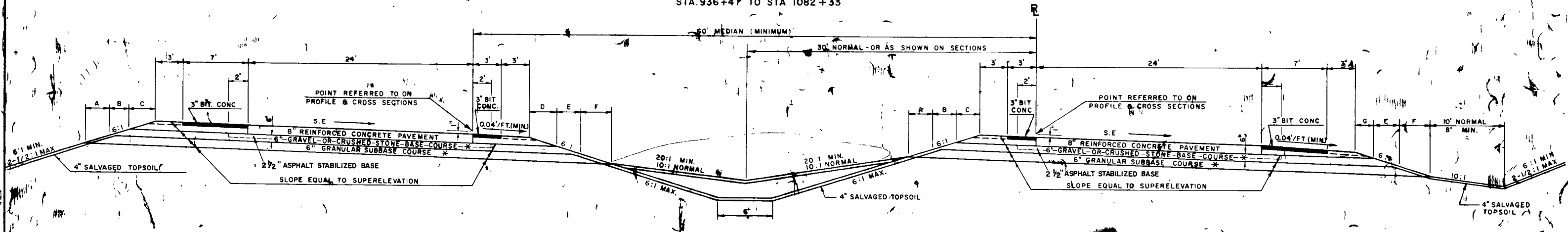
1081-2-81,82



TYPICAL NORMAL DUAL HIGHWAY SECTION - 4 LANE DIVIDED, 60' MEDIAN

STA 731+00 TO STA. 916+54 **
STA. 936+47 TO STA. 1082+33

NOTE:
* IN PLACE



TYPICAL SUPERELEVATED DUAL HIGHWAY SECTION - 4 LANE DIVIDED, 60' MEDIAN

STA 731+00 - STA. 916+54 **
STA. 936+47 - STA. 1082+33

** FOR LOCATION OF 9" PAVEMENT
SEE SHEET 2.3

SUPERELEVATION TABLE								
DE	S.E.	A	B	C	D	E	F	G
0°-15'	0.02'/FT.	2.7	2.7	4.0	4.3	3.4	3.4	3.8
0°-45'	0.03'/FT.	2.5	2.5	3.8	5.1	3.7	3.7	4.8
1°-15'	0.035'/FT.	2.5	2.5	3.7	5.5	3.8	3.8	5.3
1°-30'	0.042'/FT.	2.4	2.4	3.6	6.0	4.0	4.0	6.0
1°-45'	0.05'/FT.	2.3	2.3	3.5	6.4	4.3	4.3	6.5
2°-00'	0.056'/FT.	2.3	2.3	3.4	6.7	4.5	4.5	6.7

ROTATION ABOUT MEDIAN EDGE OF PAVEMENTS

TYPICAL CROSS SECTION
FOR

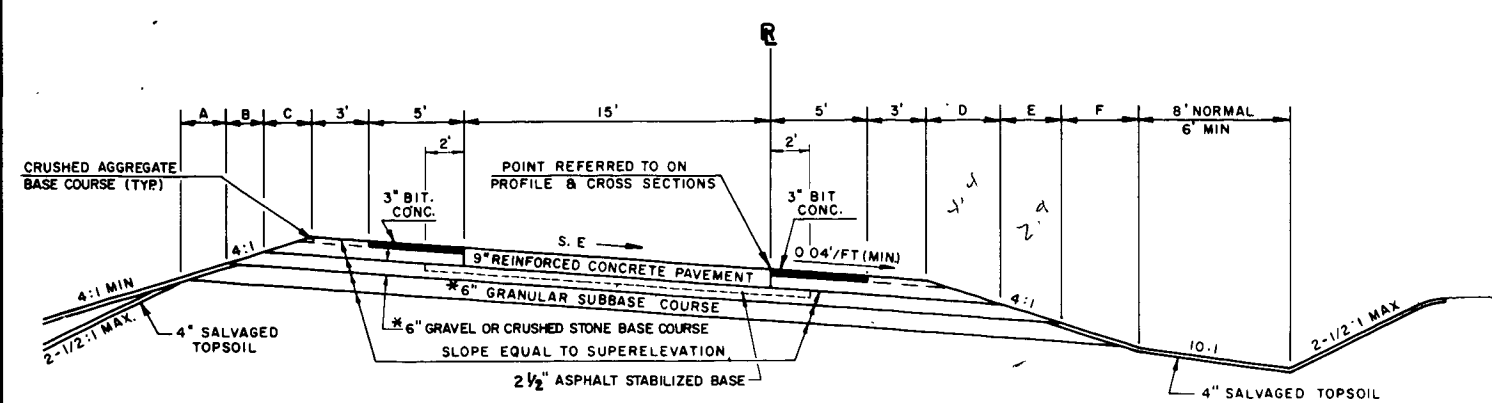
GENDA CITY-ELKHORN ROAD

U.S.H. 12

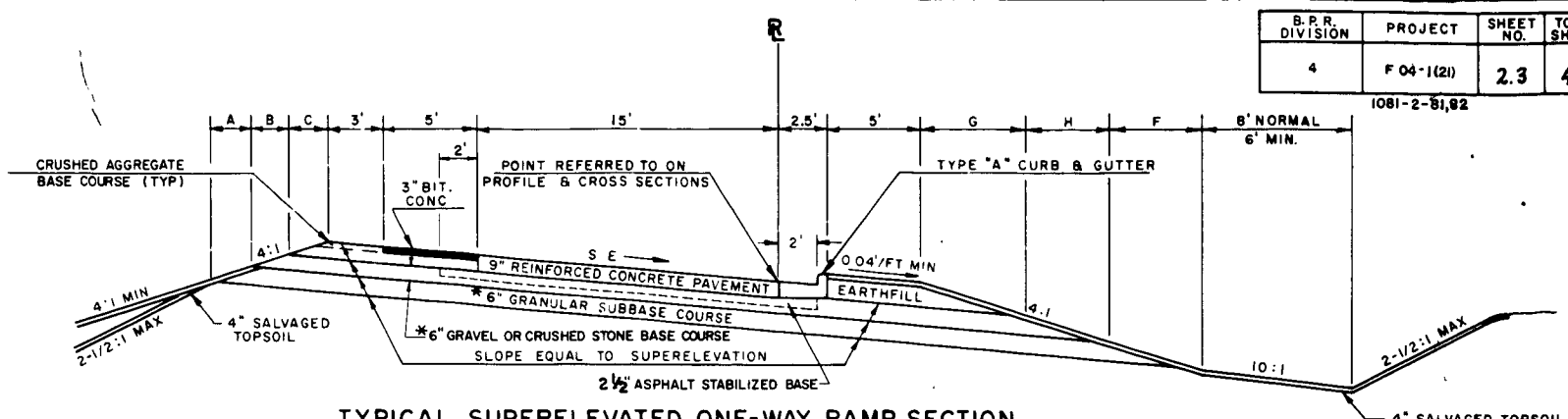
WALWORTH COUNTY

B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F 04-1(21)	2.3	41

1081-2-S1,82



TYPICAL SUPERELEVATED ONE-WAY RAMP SECTION
(WITHOUT BARRIER CURB)

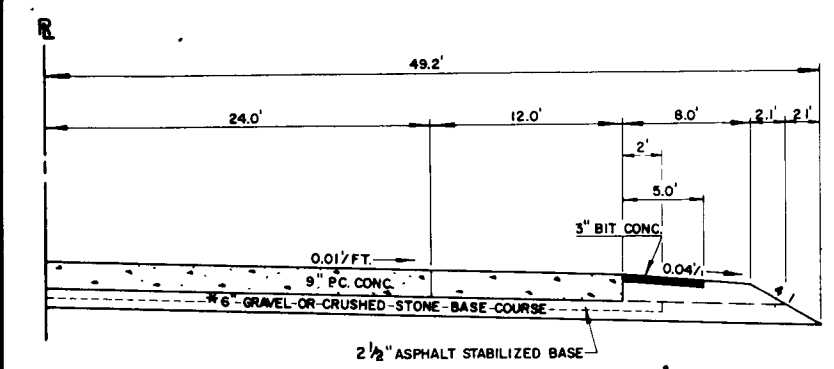


TYPICAL SUPERELEVATED ONE-WAY RAMP SECTION
(WITH BARRIER CURB)

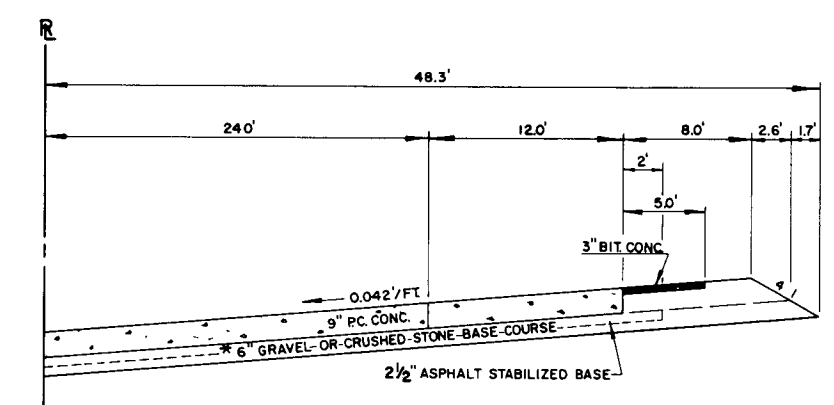
SUPERELEVATION TABLE-RAMPS								
SE	A	B	C	D	E	F	G	H
0.01'/FT	1.9	1.9	2.9	2.1	2.1	2.1	3.9	2.1
0.02'/FT	1.9	1.9	2.8	2.6	2.2	2.2	4.3	2.2
0.03'/FT	1.8	1.8	2.7	3.1	2.3	2.3	4.7	2.3
0.04'/FT	1.7	1.7	2.6	3.6	2.4	2.4	5.2	2.4
0.05'/FT	1.7	1.7	2.5	3.8	2.5	2.5	5.4	2.5
0.06'/FT	1.6	1.6	2.4	4.0	2.6	2.6	5.7	2.6
0.07'/FT	1.6	1.6	2.3	4.2	2.8	2.8	6.0	2.8
0.08'/FT	1.5	1.5	2.3	4.4	2.9	2.9	6.4	2.9

ROTATION ABOUT R

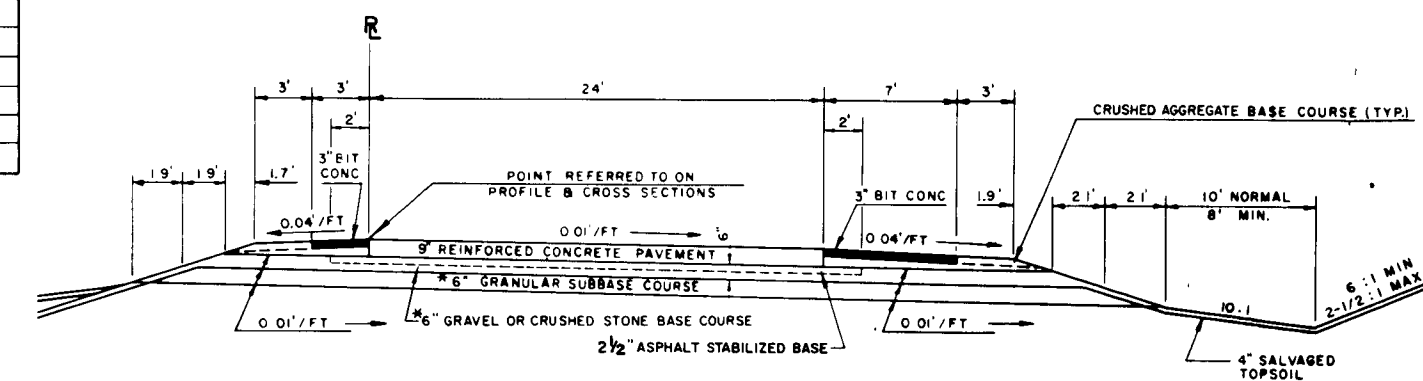
NOTE
* IN PLACE



TYPICAL SECTION AUXILIARY LANE U.S.H. 12
STA. 625+75 TO STA 628±73



TYPICAL SUPERELEVATED
SECTION AUXILIARY LANE U.S.H. 12
STA. 628±73 TO STA 641+00



TYPICAL MAINLINE ONE-WAY ROADWAY SECTION (9" PC. CONC.)

CONTRACT 1 50 to mid p.

STA. 549+00 TO STA. 558+28 S.B.	STA. 700+40 TO STA. 701+20 N.B.
STA. 561+02 TO STA. 561+82 S.B.	STA. 702+54 TO STA. 703+34 S.B.
STA. 620+44 TO STA. 621+24 S.B.	STA. 703+24 TO STA. 704+04 N.B.
STA. 620+44 TO STA. 621+24 N.B.	STA. 917+31 TO STA. 918+11 S.B.
STA. 699+71 TO STA. 700+51 S.B.	STA. 916+55 TO STA. 917+35 N.B.

CONTRACT 2 mid p. to 57

STA. 919+37 TO STA. 933+11 N.B.	STA. 1041+54 TO STA. 1042+34 N.B.
STA. 920+13 TO STA. 933+95 S.B.	STA. 1041+25 TO STA. 1042+05 S.B.
STA. 935+67 TO STA. 936+47 N.B.	STA. 1044+14 TO STA. 1044+94 N.B.
STA. 936+61 TO STA. 937+41 N.B.	STA. 1043+85 TO STA. 1044+65 S.B.

APPROVED DETAIL DRAWINGS

- 2-1.1.12 Concrete Pavement Reinforcement ✓
- 2-3.1.5 Structure Approach and Concrete Pavement/ Approach Slab
- 3-1.1.7 Concrete Curb, Gutter, Combination Curb & Gutter, Surface Drain
- 4-4.4.8 Longitudinal Joints - Concrete Pavement ✓
- 4-4.5.11 Transverse Joints - Concrete Pavement ✓
- 6-2.4.3 Mortar Rubble Masonry or Riprap For Culvert and Cattle Pass Endwalls
- 5-3.4.8 Inlet Covers
- 5-3.5.2 Inlets
- 7-2.4.13 Steel Plate Beam Guard & Steel Beam Median Guard ✓
- 7-4.1.5 Construction Barricade ✓
- 8-1.3.1 Ditch Checks, Mortar Rubble Masonry & Sod
- 13-1.1.1 Maintenance Crossover for Freeways ✓

- The Reference Line (R) is The Median Edge of the Northbound Pavement.
- When The Quantity of The Items of Or Surface Course Is Measured For Payment By The Ton Or Cubic Yard, The Depth Or Thickness Of The Course Shown On The Plans Is Approximate And The Actual Thickness Will Depend On The Distribution Of The Material Directed By The Engineer.
- Items Shown On The Plans But Not included In The Estimate Of Quantities Or Miscellaneous Quantities Are Not Part Of This Contract.
- The Exact Location Of Private Entrances Is To Be Determined In The Field By The Engineer
- 3" Bituminous Concrete, Where Indicated On The Plans, Shall Consist Of 1-3/4" Binder Course And 1-1/4" Surface Course.
- Shrinkage Is Variable And Estimated At 15% For Embankment And 25% For Marsh Backfill.

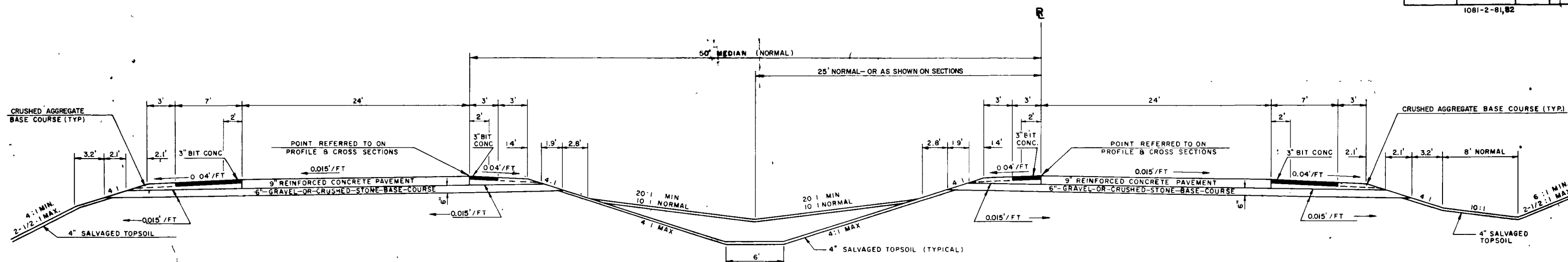
GENERAL NOTES

- All The Right Of Way, Exclusive Of The Roadbed And Areas Already Covered With Suitable Grasses, Shall Be Fertilized And Seeded.
- The Shoulder Gravel Adjacent to Bituminous Concrete Shoulders Shall Not Be Placed Until After The Bituminous Concrete Pavement Has Been Laid.
- Salvaged Topsoil To Be Placed As Directed By Plans To An Approximate Depth of 4" At Time Of Placing.
- Where 5" Bituminous Concrete Is Indicated On The Plans, It Shall Be Constructed As Follows: 3-3/4" Binder (2-Courses) And 1-1/4" Surface Course.

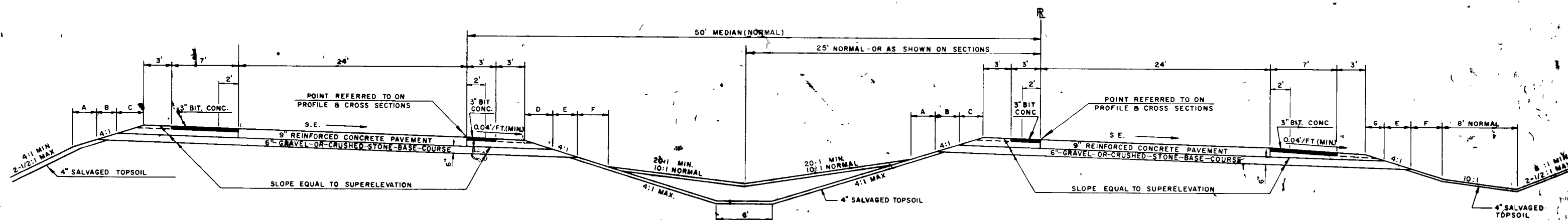
TYPICAL CROSS SECTIONS FOR RAMPS AND WIDENED MEDIAN GENOA CITY-ELKHORN ROAD

B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F 04-(121)	2.4	4/

1081-2-81, 82



TYPICAL NORMAL DUAL HIGHWAY SECTION - 4 LANE DIVIDED, 50' MEDIAN
S.T.H. 36



TYPICAL SUPERELEVATED DUAL HIGHWAY SECTION - 4 LANE DIVIDED, 50' MEDIAN
S.T.H. 36

SUPERELEVATION TABLE							
S.E.	A	B	C	D	E	F	G
0.02/FT	2.8	1.9	2.8	2.7	2.2	3.3	2.4
-0.04/FT							

ROTATION ABOUT OUTSIDE EDGE OF PAVEMENT

TYPICAL CROSS SECTION
FOR
S.T.H. 36

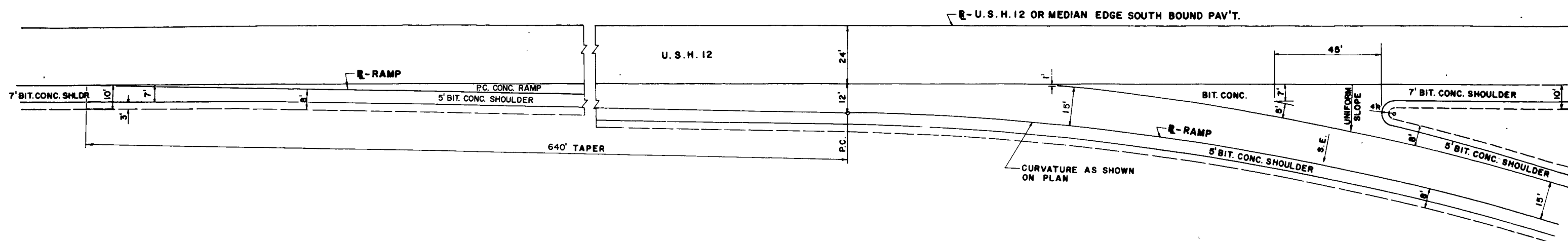
GENOA CITY-ELKHORN ROAD

U.S.H. 12

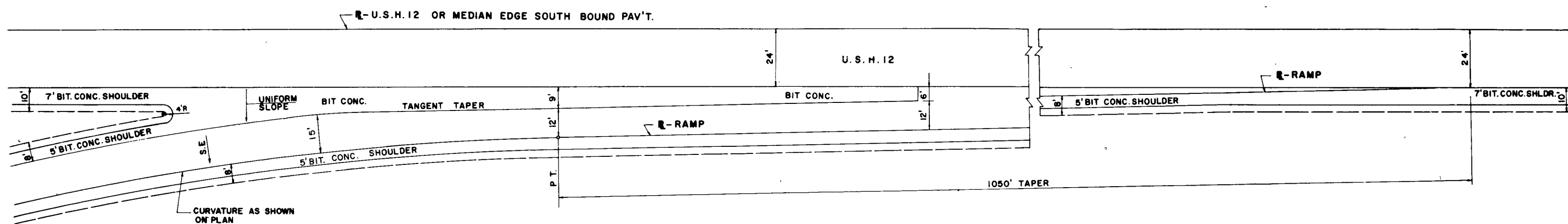
WALWORTH COUNTY

S.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	2.5	41

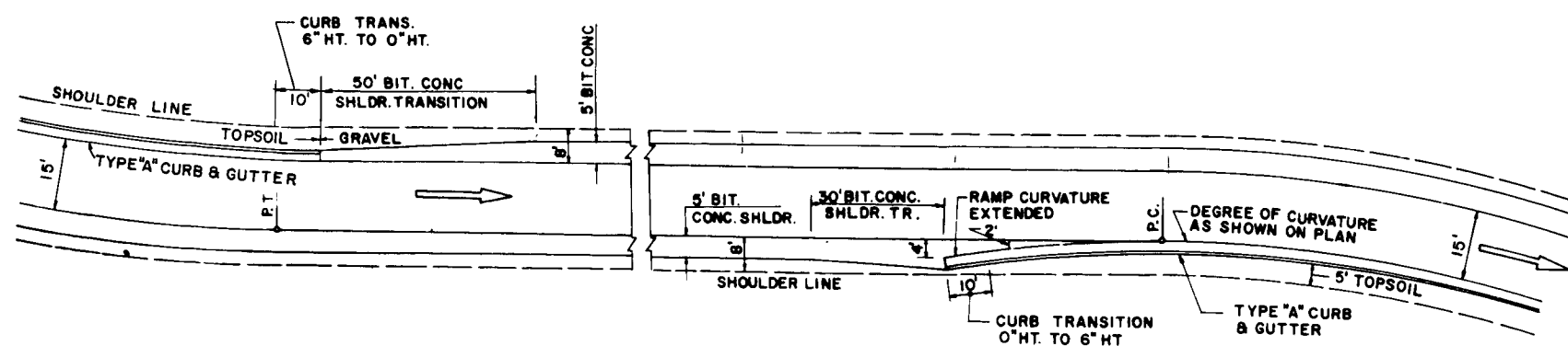
1081-2-81,82



TYPICAL U.S.H.12 EXIT TERMINAL



TYPICAL U.S.H.12 ENTRANCE TERMINAL



TYPICAL EXIT & APPROACH DETAIL FOR CURBED RAMP SECTION

CONSTRUCTION DETAILS
FOR
INTERCHANGE RAMPS

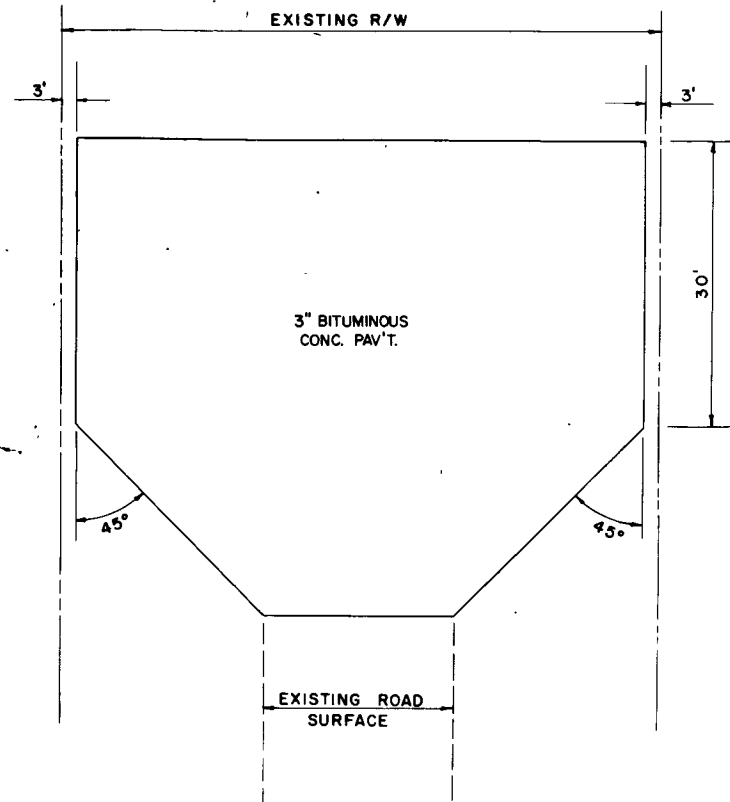
GENOA CITY-ELKHORN ROAD

U.S. H. 12

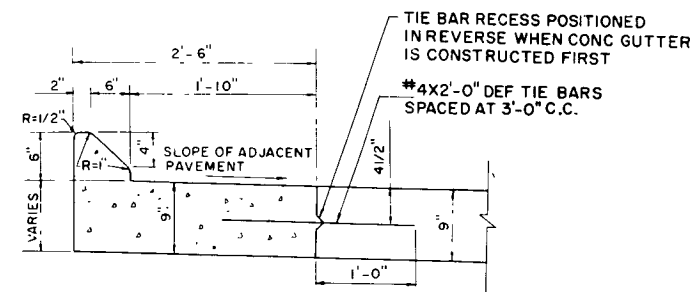
WALWORTH COUNTY

B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	2.6	41

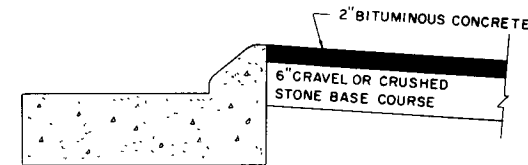
1081-2-8, 82



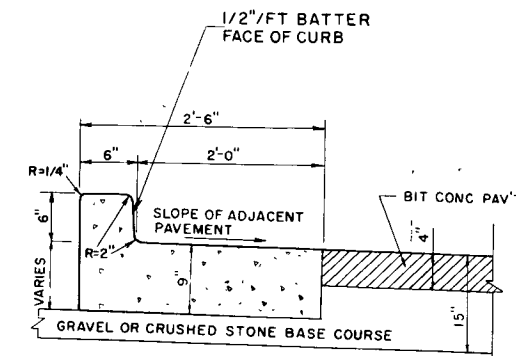
TYPICAL CUL-DE-SAC DETAILS
FOR KRUEGER ROAD



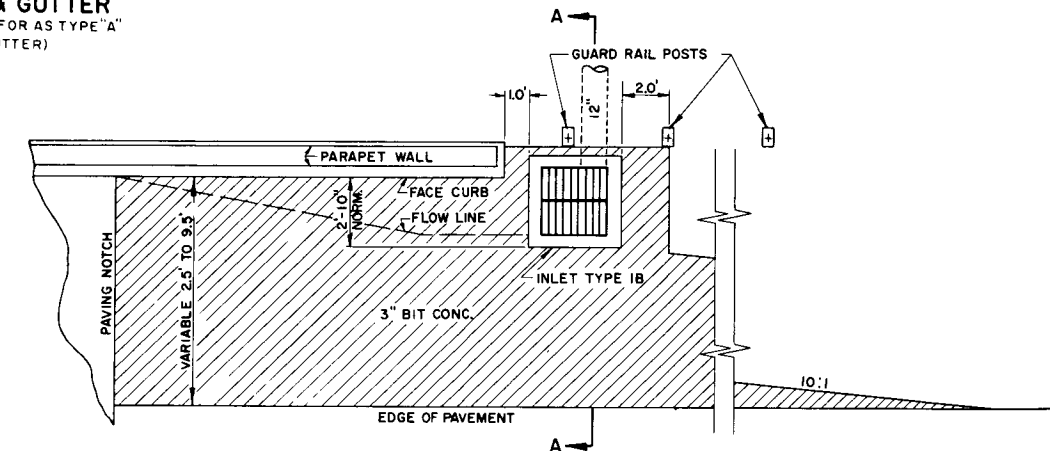
TYPE "G" (MODIFIED)
CONCRETE CURB & GUTTER
(TO BE MEASURED AND PAID FOR AS TYPE "G"
CONCRETE CURB & GUTTER)



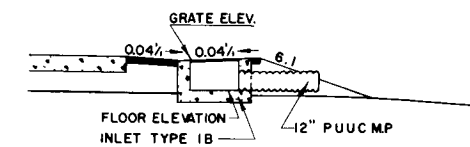
ISLAND DETAILS



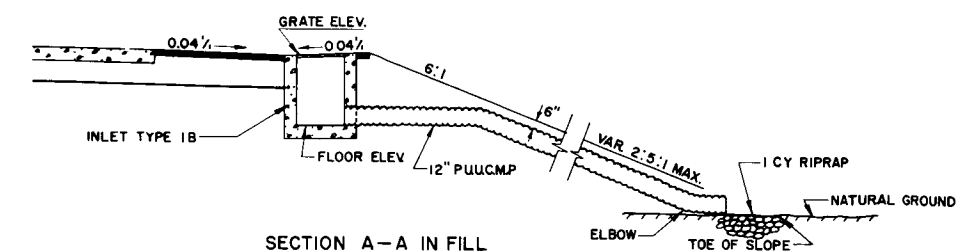
TYPE "A" (MODIFIED)
CONCRETE CURB & GUTTER
(TO BE MEASURED AND PAID FOR AS TYPE "A"
CONCRETE CURB & GUTTER)



PLAN VIEW

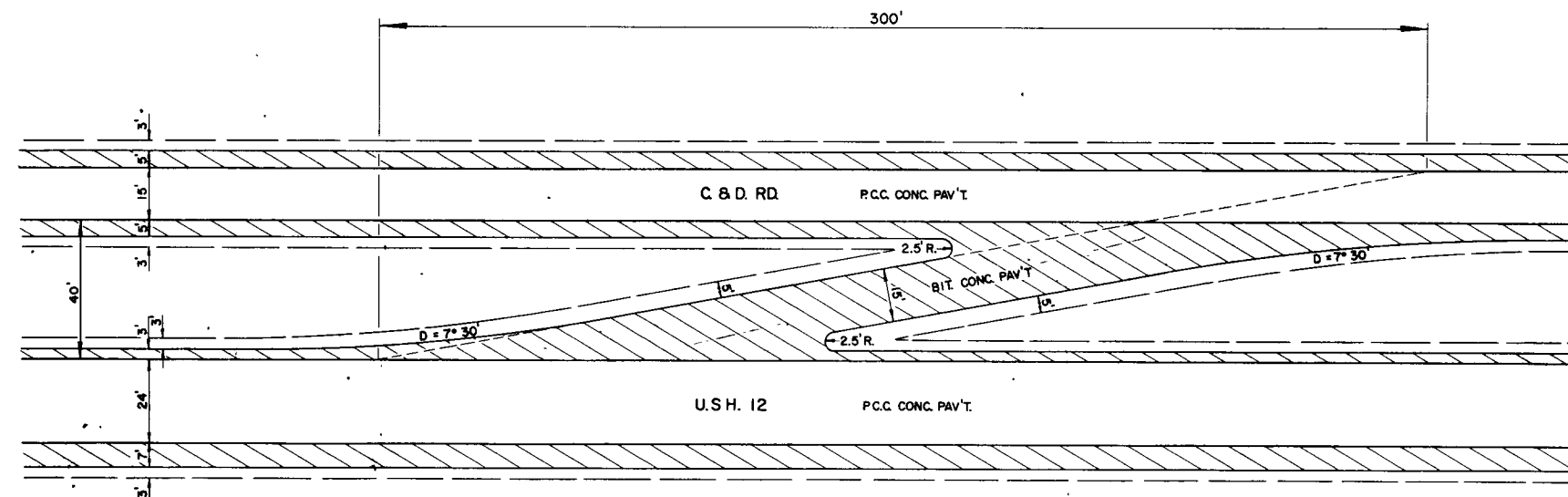


SECTION A-A IN CUT



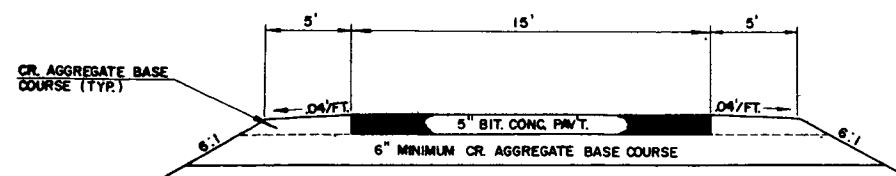
SECTION A-A IN FILL

DETAIL OF BRIDGE APPROACH INLET



TEMPORARY CROSS-OVER PLAN DETAIL
NOT TO SCALE

BIT. CONC. PAV'T.



TYPICAL TEMPORARY CROSS-OVER SECTION

CONSTRUCTION DETAILS
FOR

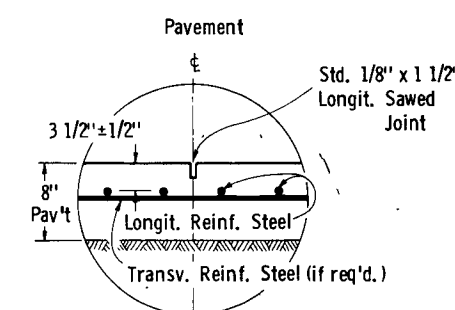
GENOA CITY-ELKHORN ROAD

U. S. H. 12

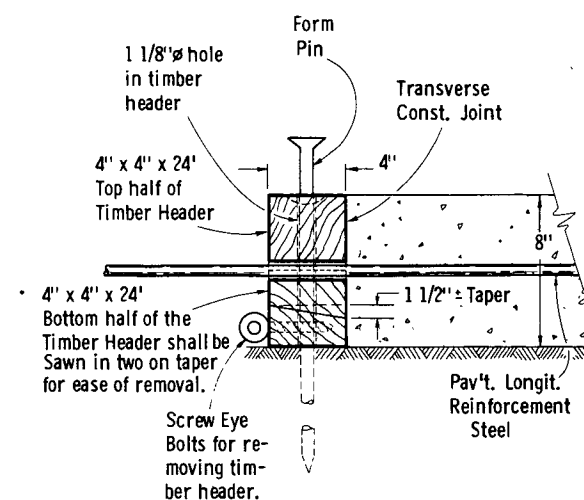
WALWORTH COUNTY

GENERAL NOTES

Transverse reinforcing bars may be omitted if the longitudinal reinforcing bars can be accurately placed and held there during the placing and setting of the concrete by devices or methods approved by the Engineer. In the case that transverse reinforcing bars are eliminated, longitudinal ϵ joint tie bars shall be accurately installed according to Standard Plate 4-4. 4. 8, except that tie bars may be placed either above or below the longitudinal reinforcing bars.

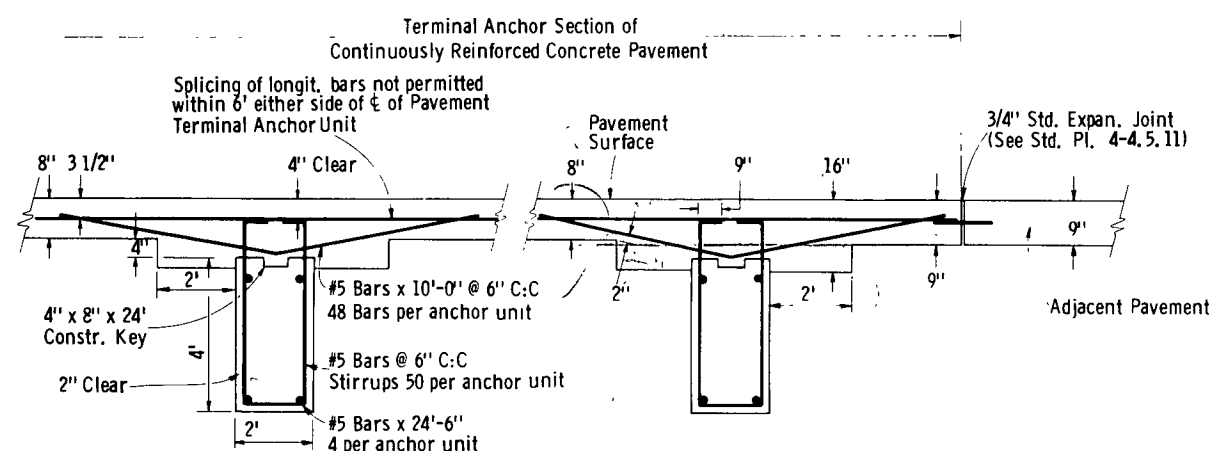


LONGITUDINAL & JOINT DETAILS
TOTAL WIDTH CONSTRUCTION



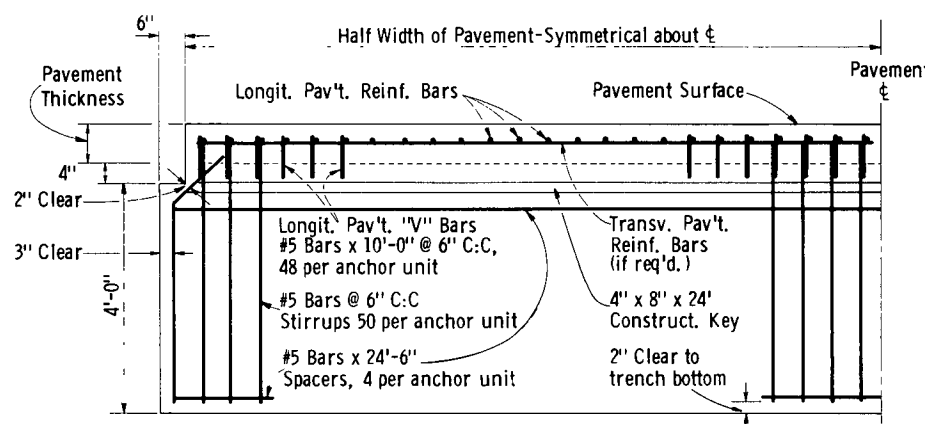
DETAILS OF SPLIT TIMBER TYPE HEADER
TO BE USED AT CONSTRUCTION JOINTS

Note: Alternate Type Header installations may be used upon written approval of the Engineer.



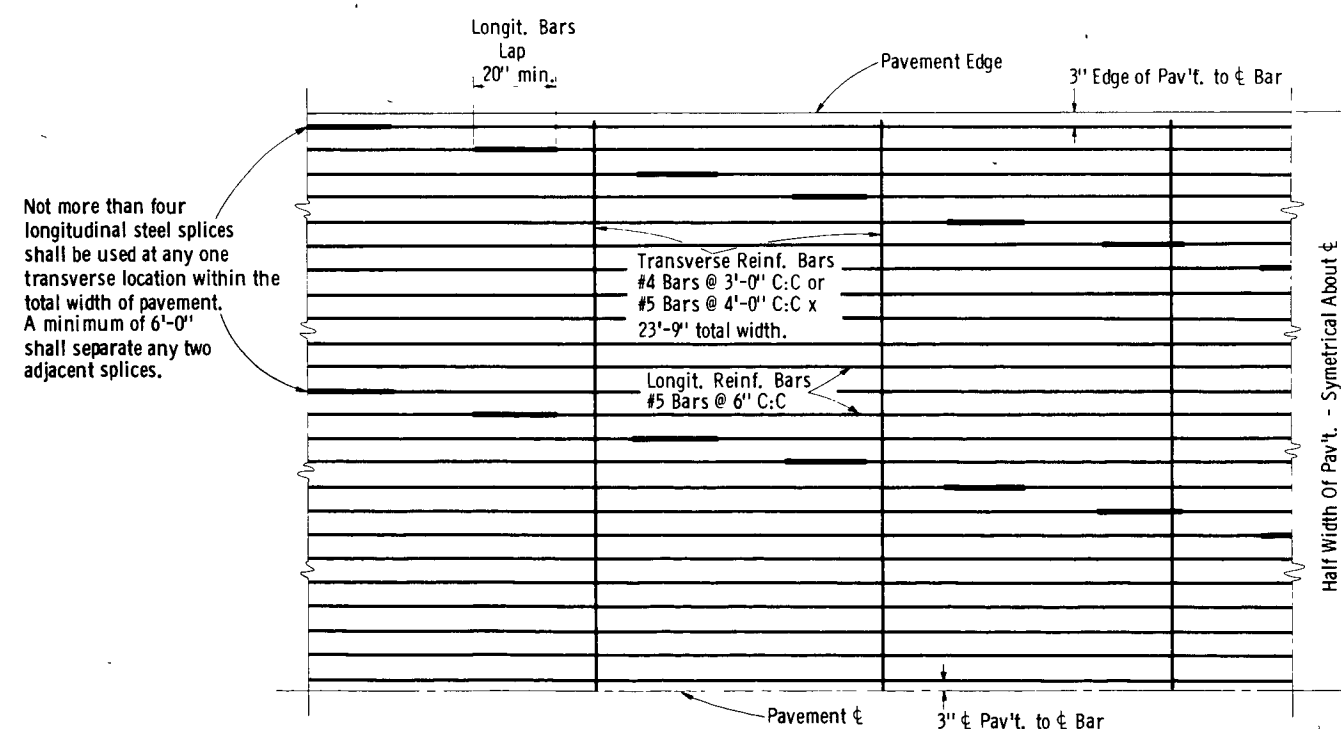
SECTION C - C

SIDE ELEVATION

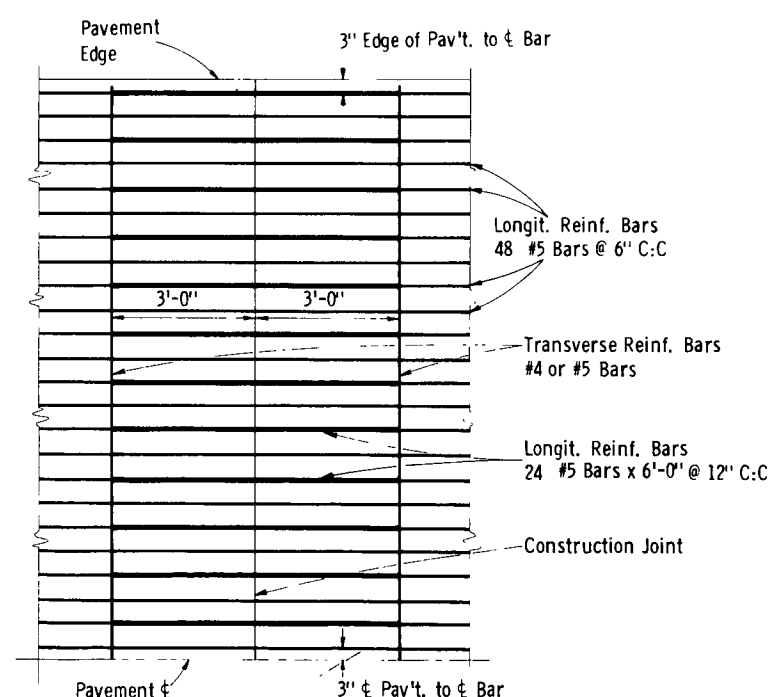


SECTION A - A

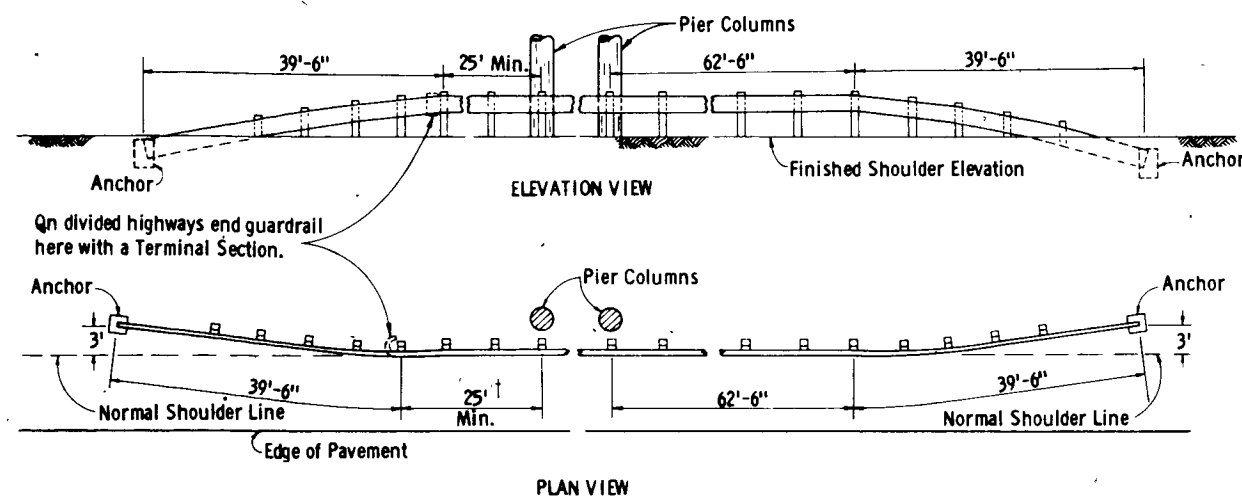
PAVEMENT TERMINAL ANCHOR UNIT DETAILS



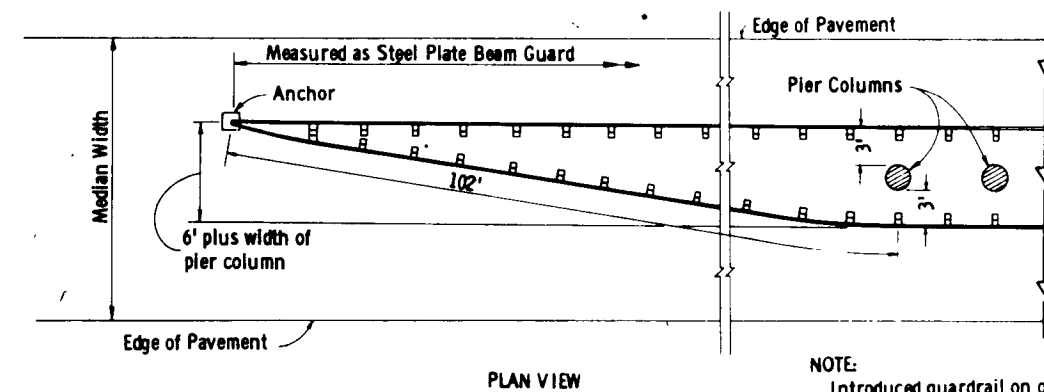
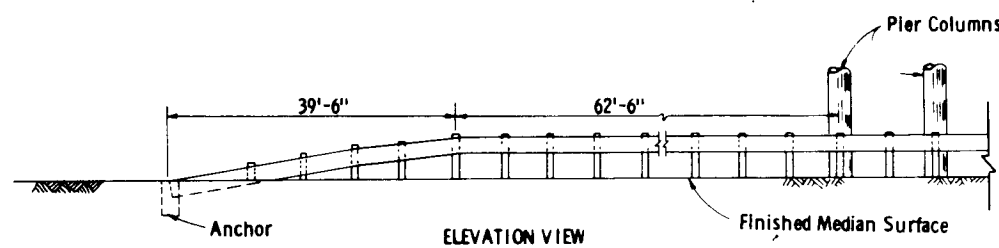
REINFORCEMENT STEEL PLACEMENT
TOTAL WIDTH CONSTRUCTION



CONSTRUCTION JOINT
PLAN VIEW
(Half Width of Pavement)

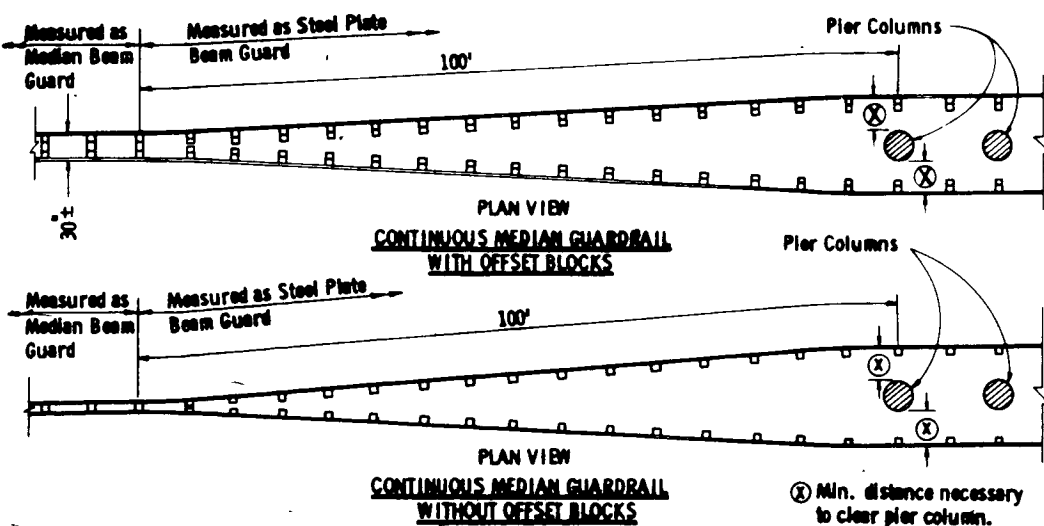


RIGHT SHOULDER GUARDRAIL



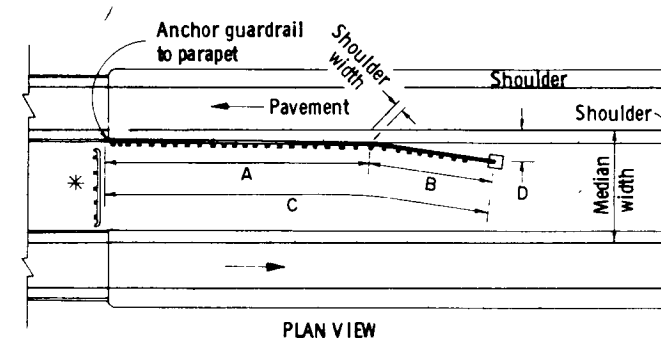
INTRODUCED MEDIAN GUARDRAIL

NOTE:
Introduced guardrail on other side of structure identical but curved in reverse direction.

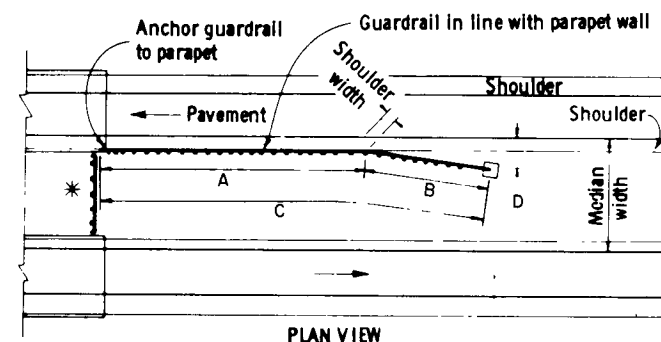


TYPICAL INSTALLATION AT UNDERPASS STRUCTURES

② Min. distance necessary to clear pier column.

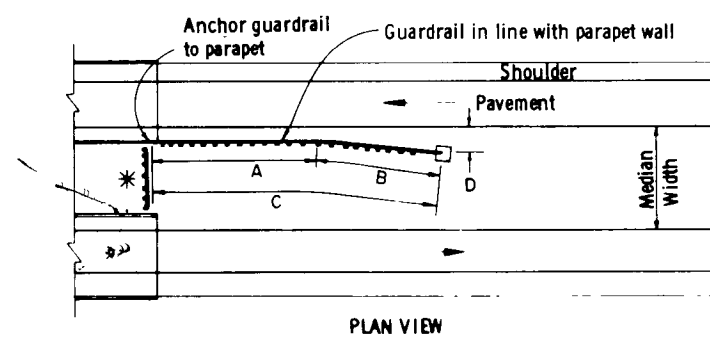


ROADWAY WIDTH GREATER THAN STRUCTURE WIDTH

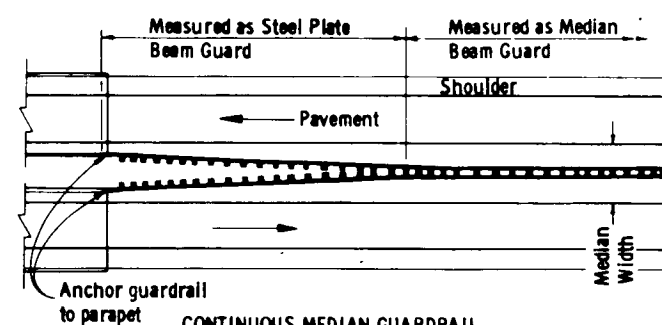


ROADWAY WIDTH EQUAL TO STRUCTURE WIDTH

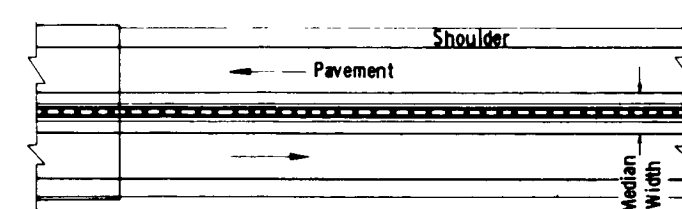
DEPRESSED MEDIAN



RAISED MEDIAN



CONTINUOUS MEDIAN GUARDRAIL (STRUCTURES WITH RAILINGS)



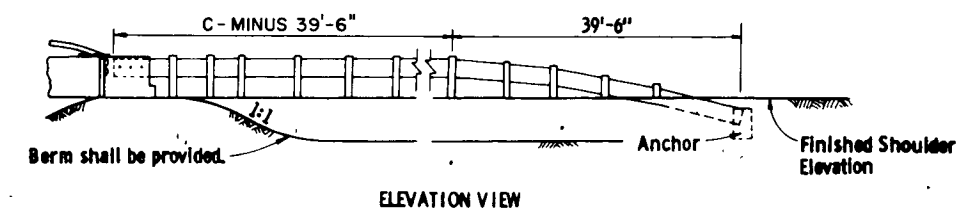
CONTINUOUS MEDIAN GUARDRAIL (MEDIAN CARRIED ACROSS STRUCTURE)

TYPICAL INSTALLATION AT OVERPASS STRUCTURES

STRUCTURE	A	B	C	D
B-64-41	201	177	378	20
B-64-42	201	102	303	14
B-64-43	201	102	303	14
B-64-44	201	102	303	14
B-64-46	201	102	303	14
B-64-47	201	177	378	20
B-64-32	201	102	303	14
B-64-33	201	102	303	14
B-64-35	138	65	203	14
B-64-36	225	65	290	14

BPR REGION	PROJECT	SHEET NO.	TOTAL SHEETS
4	FO4-(121)	2.8	41

1081-2-81,82



* Place fence behind guardrail if fencing is required. Top of fence and guardrail shall be at the same elevation. Guardrail between the structures shall have 6'-3" post spacing with Terminal End Sections.

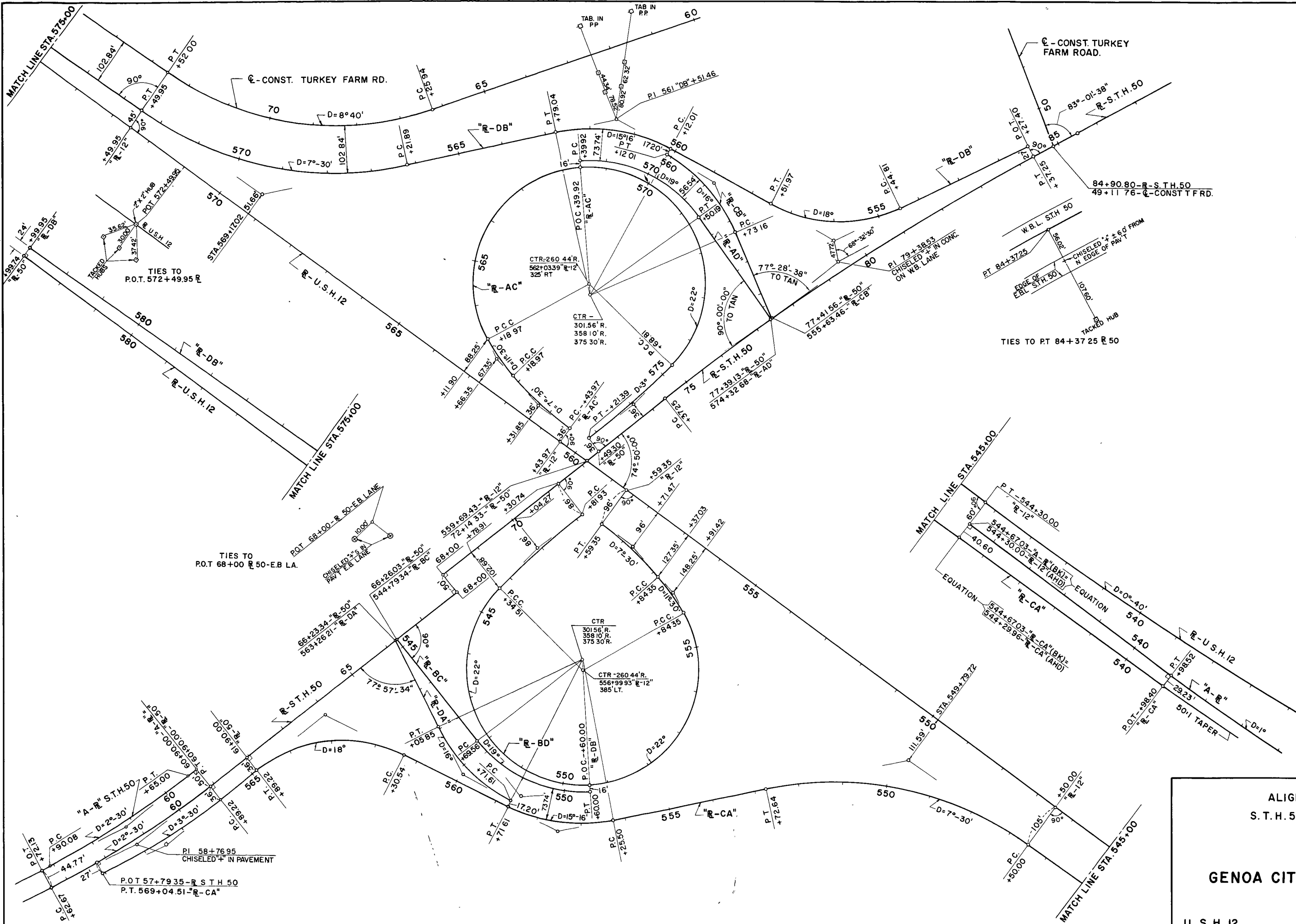
GENERAL NOTES

Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications, Applicable Special Provisions, and the Standard Detail Drawing for Steel Plate Beam Guard and Steel Plate Beam (Median) Guard.
Post-Footing Detail at Piers shall be used when guardrail posts are over structure footings and less than 3'-6" of earth is provided over the top of the footing.

DETAILS FOR STEEL PLATE BEAM GUARD AND STEEL PLATE BEAM (MEDIAN) GUARD

B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	2.10	41

1081-2-81



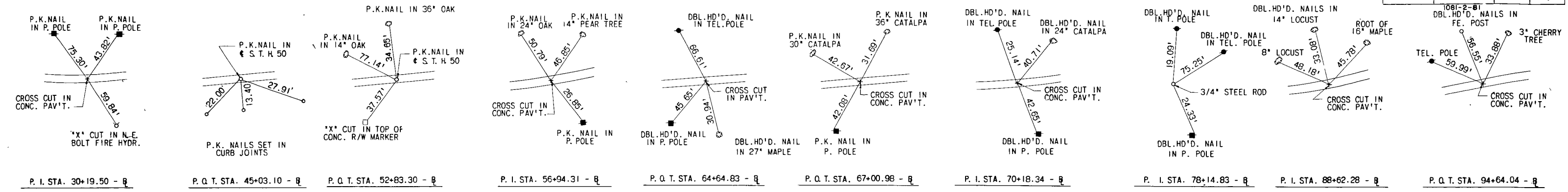
ALIGNMENT PLAN
S.T.H. 50 INTERCHANGE

GENOA CITY-ELKHORN ROAD

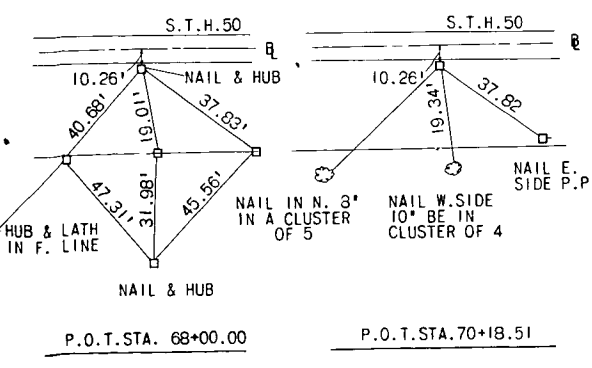
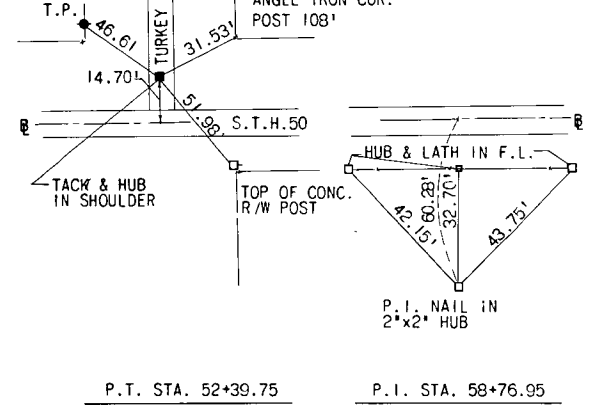
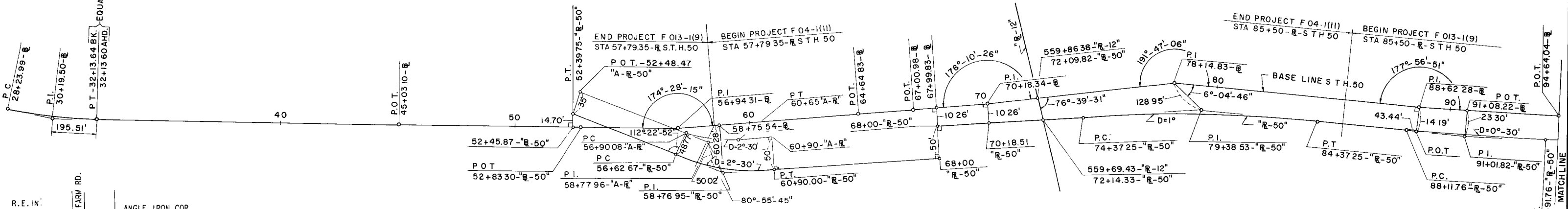
U. S. H. 12

WALWORTH COUNTY

B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F 04-1(21)	2/11	4/



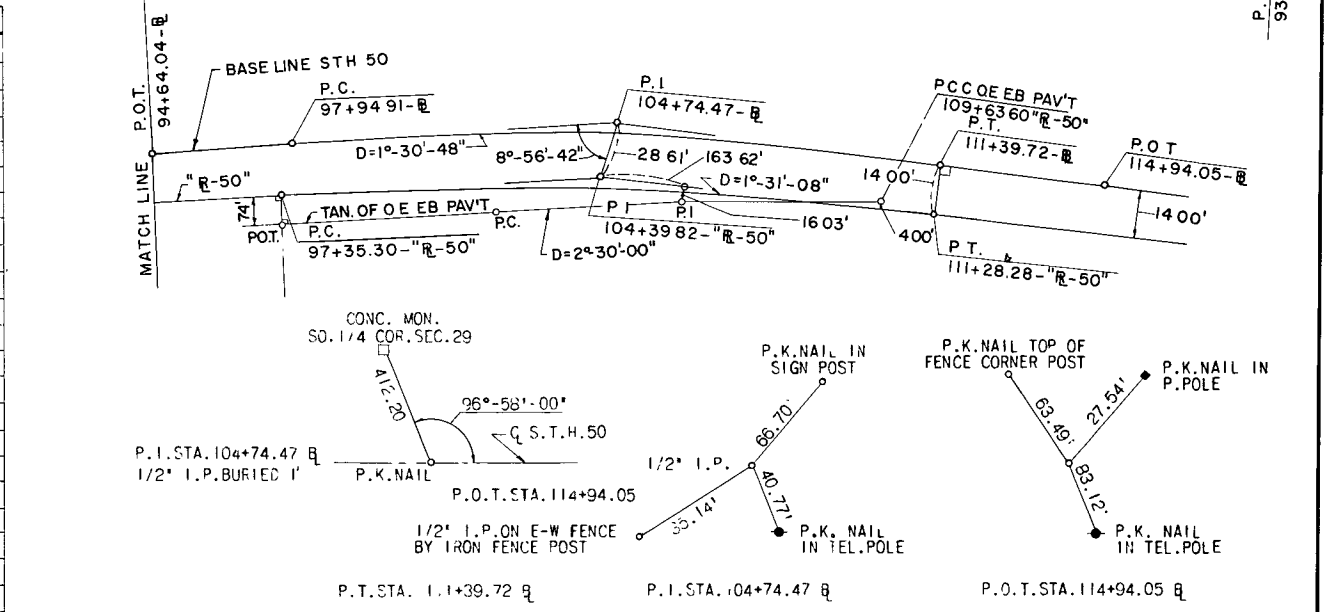
S.T.H. 50 BASELINE TIES



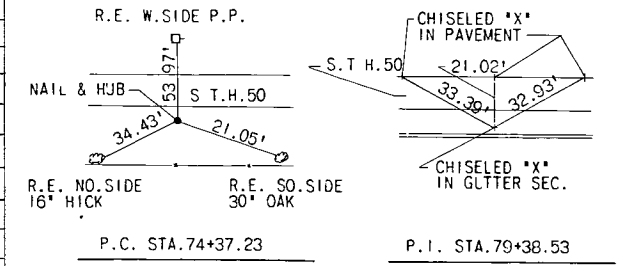
S.T.H. 50 R TIES

LINE	CURVE	Δ	D - ARC	R	T	L	P.C. STA.	P. I. STA.	P. T. STA.
R - CA	1	46°-41'-54"	7°-30'-00"	763.94	329.78	622.64	546+50.00	549+79.78	552+72.64
R - CA	2	37°-34'-22"	15°-16'-00"	375.30	127.66	246.11	556+25.50	557+53.16	558+71.61
R - CA	3	64°-33'-43"	18°-00'-00"	318.31	201.08	358.68	561+30.54	563+31.62	564+89.22
R - CA	4	10°-56'-50"	3°-30'-00"	1637.02	156.87	312.78	565+89.22	567+46.09	569+02.00
R - DA		37°-28'-43"	16°-00'-00"	358.10	121.48	234.24	558+71.61	559+93.09	561+05.85
R - BD	1	7°-34'-38"	3°-00'-00"	1909.86	126.47	252.58	541+81.93	543+08.41	544+34.51
R - BD	2	252°-57'-52"	22°-00'-00"	260.44	-	1149.84	544+34.51	-	555+84.35
R - BD	3	11°-30'-00"	11°-30'-00"	498.22	50.17	100.00	555+84.35	556+34.52	556+84.35
R - BD	4	13°-07'-30"	7°-30'-00"	763.94	87.88	175.00	556+84.35	557+72.23	558+59.35
R - BC		55°-11'-00"	19°-00'-00"	301.56	157.59	290.44	547+69.56	549+27.15	550+60.00
R - AC	1	13°-07'-30"	7°-30'-00"	763.94	87.88	175.00	560+43.97	561+31.85	562+18.97
R - AC	2	11°-30'-00"	11°-30'-00"	498.22	50.17	100.00	562+18.97	562+69.14	563+18.97
R - AC	3	252°-57'-52"	22°-00'-00"	260.44	-	1149.84	563+18.97	-	574+68.81
R - AC	4	7°-34'-38"	3°-00'-00"	1909.86	126.47	252.58	574+68.81	575+95.28	577+21.39
R - AD		58°-57'-08"	19°-00'-00"	301.56	170.44	310.27	568+39.92	570+10.36	571+50.19
R - DB	1	55°-17'-18"	18°-00'-00"	318.31	166.72	307.16	554+44.81	556+11.53	557+51.97
R - DB	2	40°-46'-00"	15°-16'-00"	375.30	139.45	267.03	560+12.01	561+51.46	562+79.04
R - DB	3	47°-06'-14"	7°-30'-00"	763.94	333.00	628.06	566+21.89	569+54.89	572+49.95
R - CB		38°-12'-57"	16°-00'-00"	358.10	124.06	238.85	557+73.16	558+97.22	560+12.01
S.T.H. 50									
R - E.B.	1	8°-45'-00"	2°-30'-00"	2291.83	175.34	350.00	49+89.75	50+65.09	52+39.75
R - E.B.	2	10°-41'-00"	2°-30'-00"	2291.83	214.29	427.33	56+62.67	58+76.95	60+90.00
A-E W.B.	3	9°-22'-23"	2°-30'-00"	2291.83	187.88	374.92	56+90.08	58+77.96	60+65.00
R - W.B.	4	10°-00'-00"	1°-00'-00"	5729.58	501.27	1000.00	74+37.25	79+38.53	84+37.25
R - W.B.	5	2°-54'-00"	0°-30'-00"	11459.16	290.06	580.00	88+11.76	91+01.82	93+91.76
R - W.B.	6	21°-09'-26"	1°-31'-08"	3772.33	704.52	1392.98	97+35.30	104+39.82	111+28.28
O.E. EAST END E.B.	7	18°-39'-21"	2°-30'-00"	2291.83	376.45	746.23			

NOTE: FOR SUPERELEVATIONS SEE PROFILES



S.T.H. 50 BASELINE TIES



S.T.H. 50 R TIES

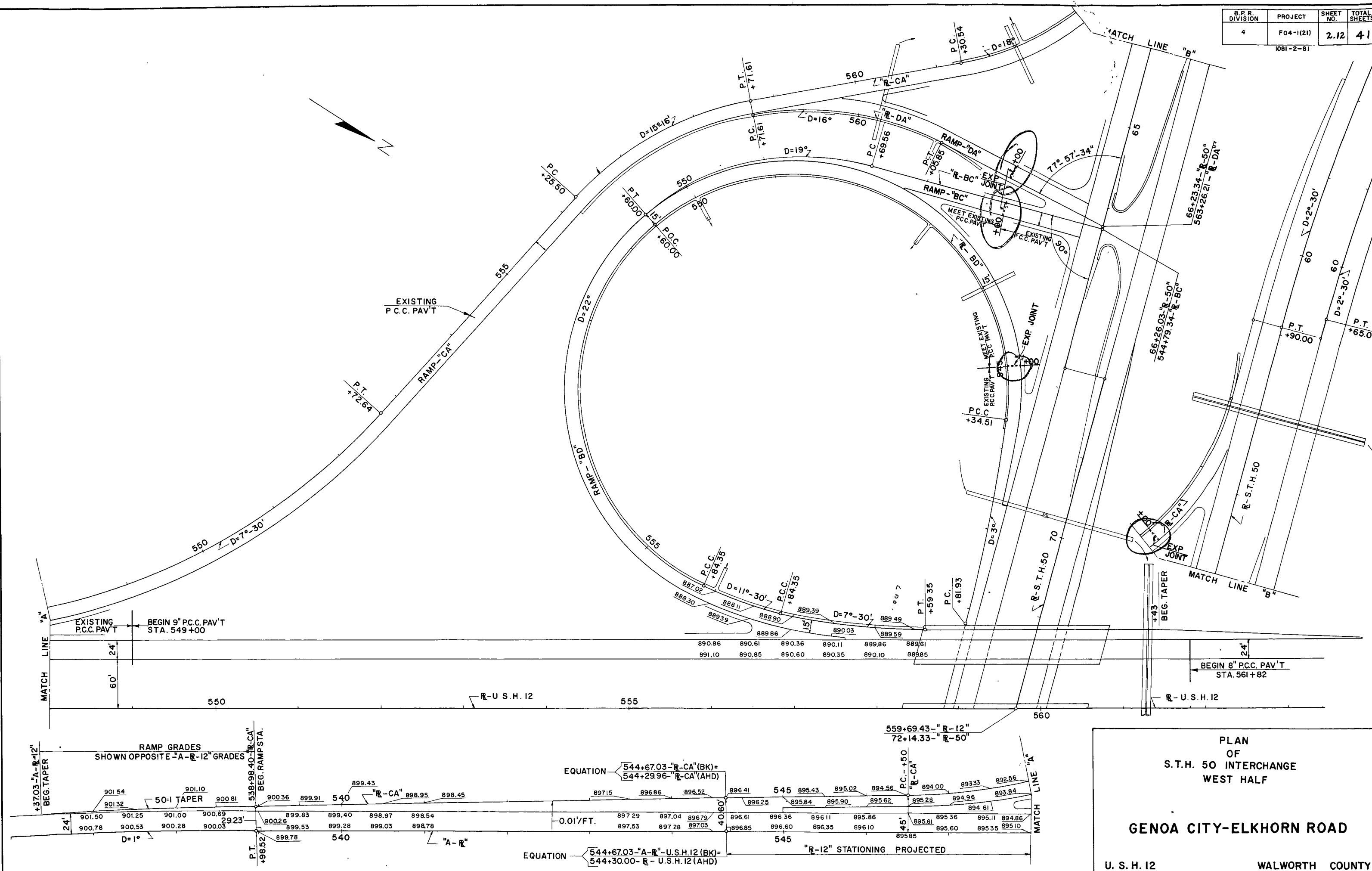
ALIGNMENT PLAN
S.T.H. 50 INTERCHANGE

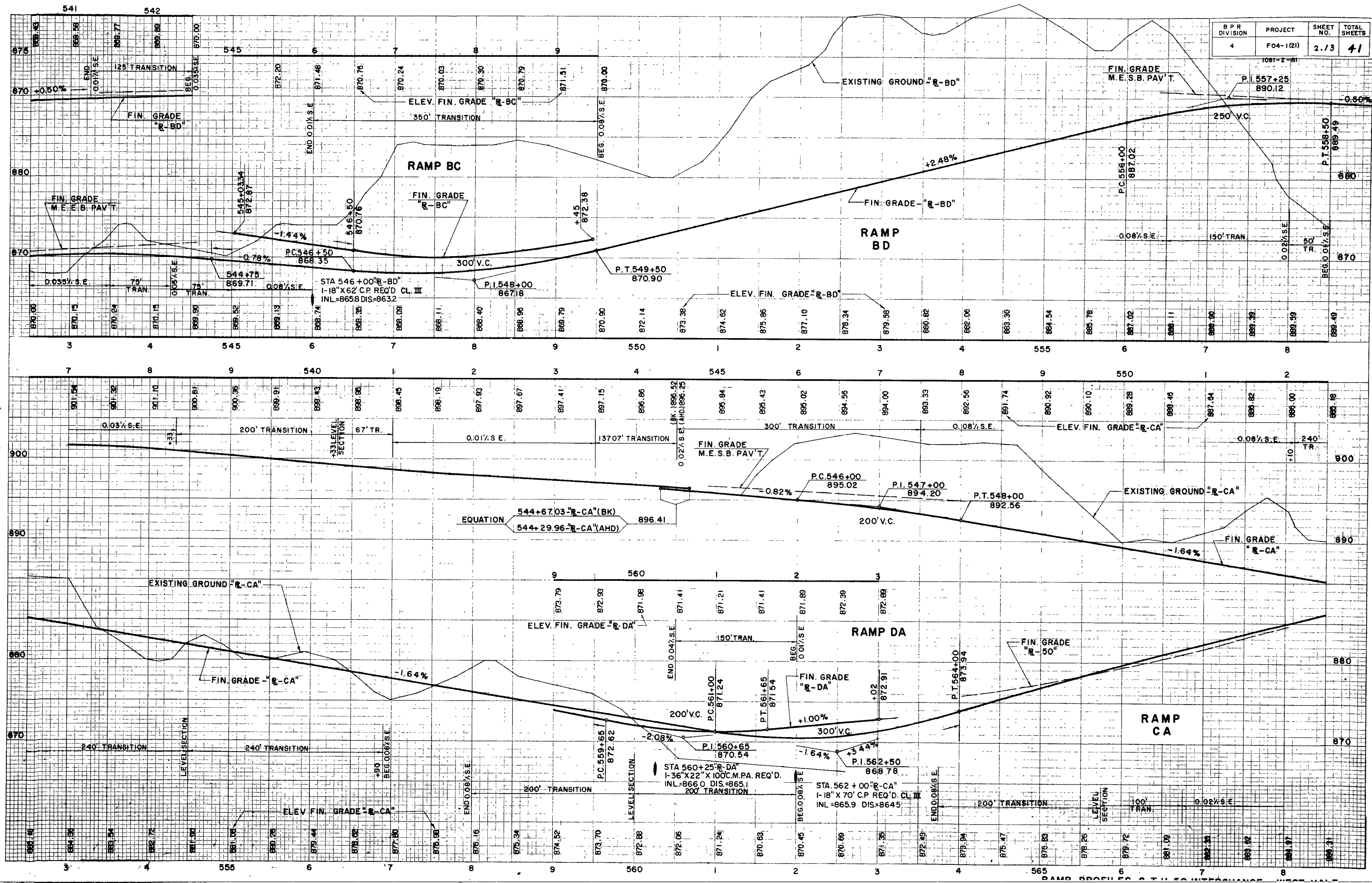
GENOA CITY-ELKHORN ROAD

U. S. H. 12

WALWORTH COUNTY

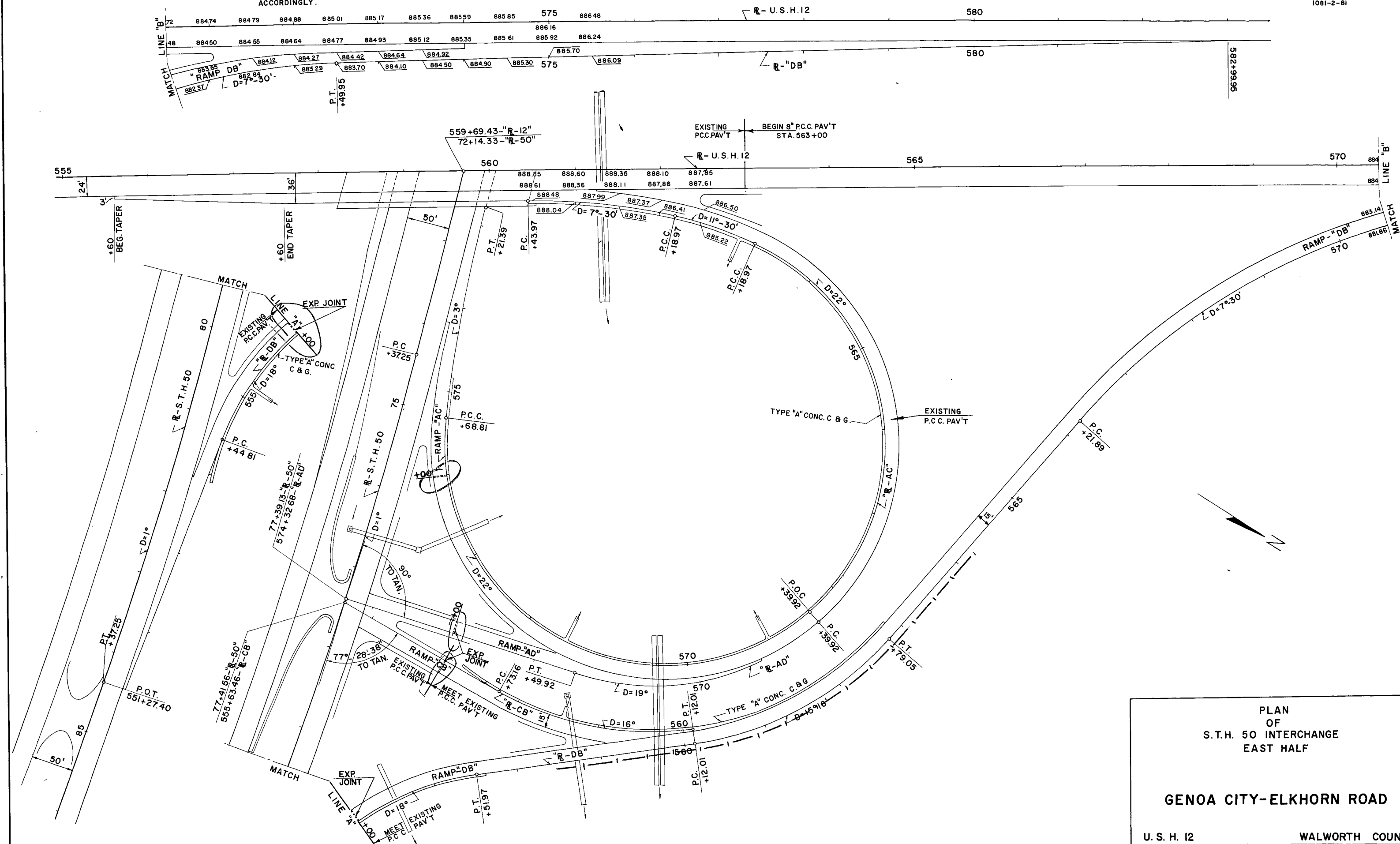
B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	2.12	41
1081-2-81			



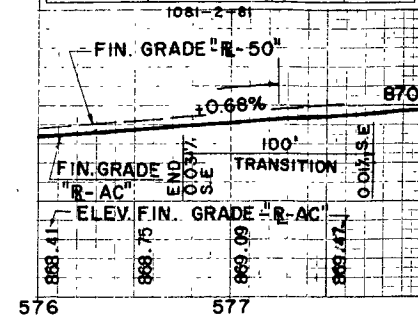
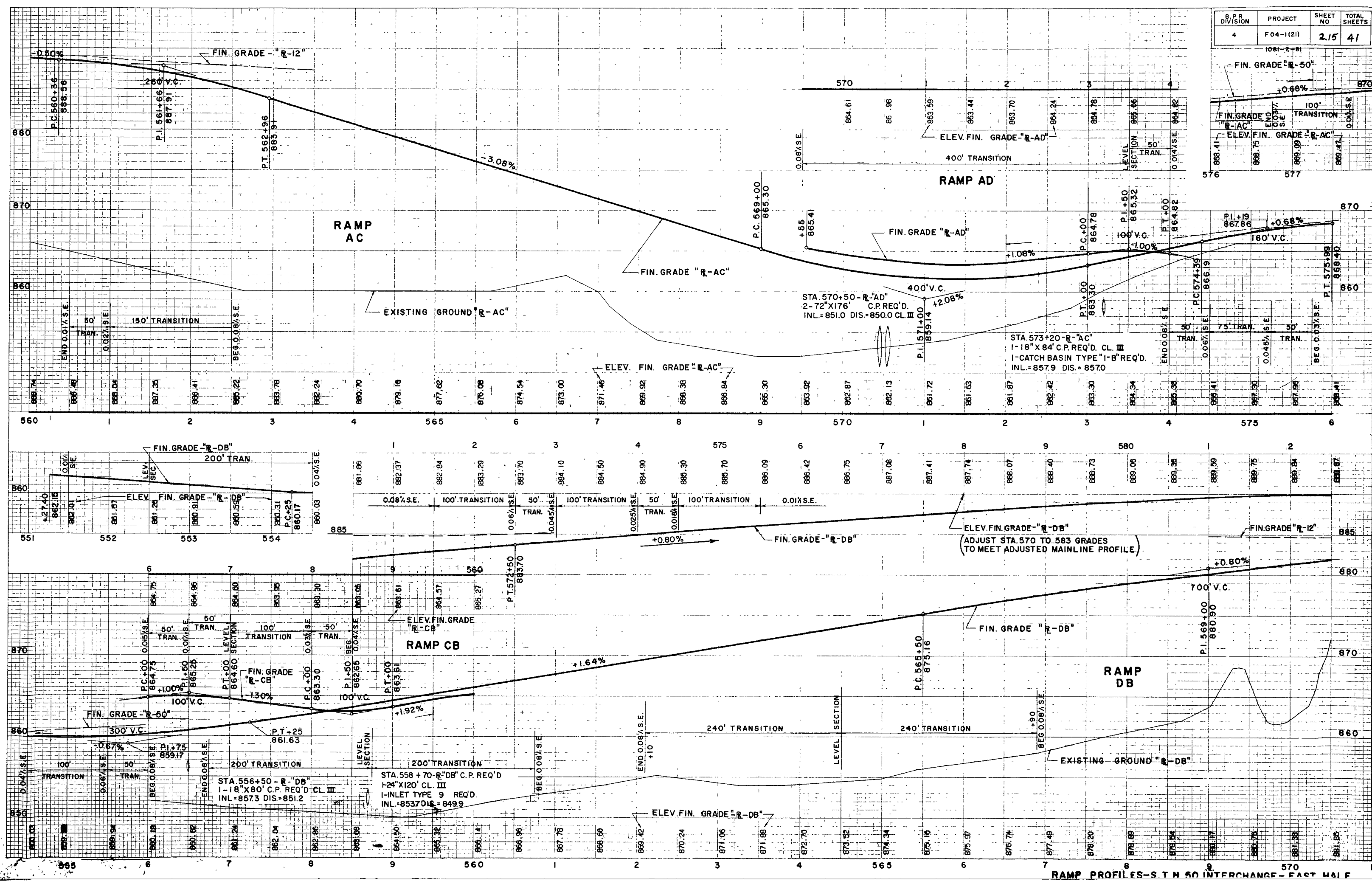


B. P. R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEET
4	F04-1(21)	2.14	41

NOTE: MAINLINE PAVING GRADES SHOWN FROM STA. 570+50 TO 575+50 N.B. ARE 1" ABOVE FINISHED GRADE-ADJUST RAMP "DB" GRADES FROM STA. 570+00 TO 583 ACCORDINGLY.

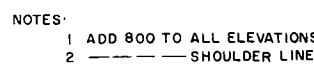


B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	2.15	41



RAMP PROFILES-S T N 50 INTERCHANGE - EAST HALF

1081-2-81

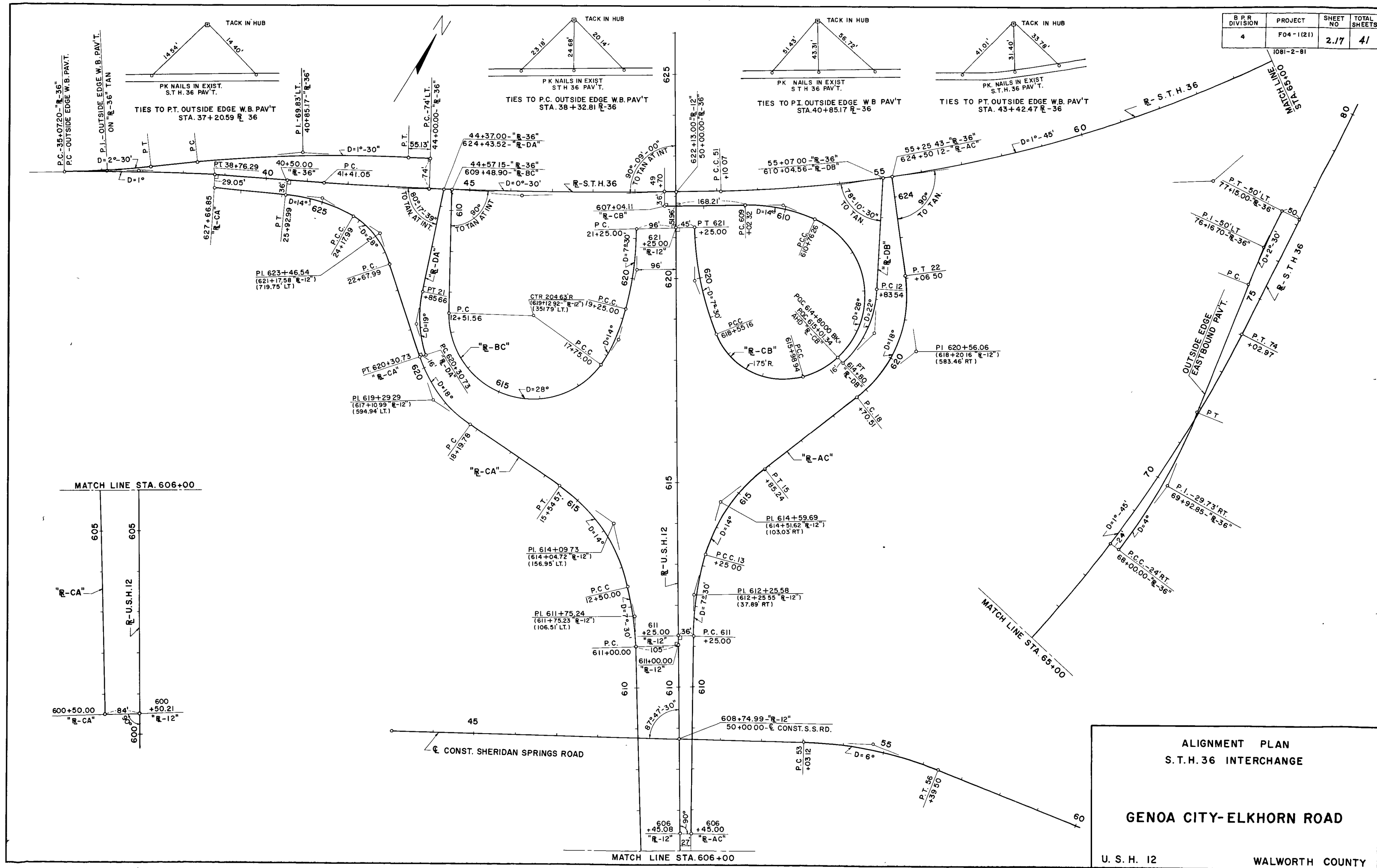


GENOA CITY-ELKHORN ROAD

WALWORTH COUNTY

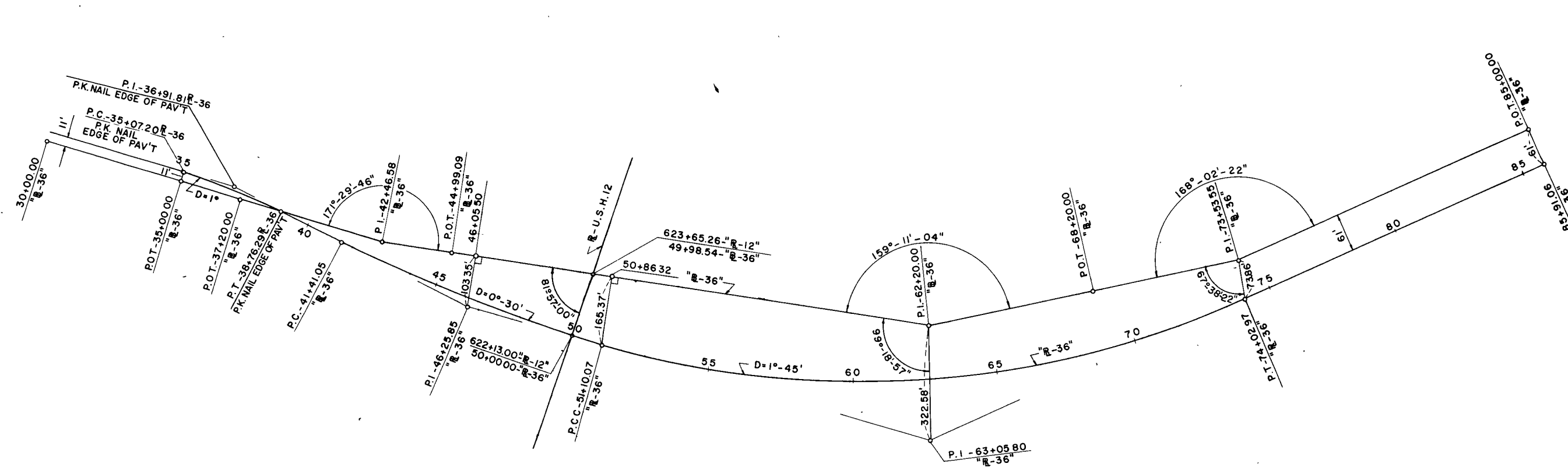
B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	2.17	41

1081-2-81



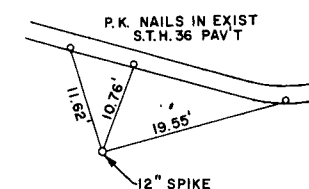
ALIGNMENT PLAN
S.T.H. 36 INTERCHANGE
GENOA CITY-ELKHORN ROAD

U. S. H. 12 WALWORTH COUNTY

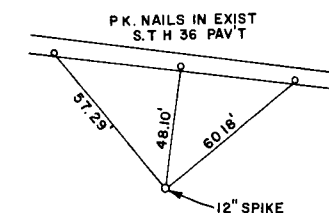


LINE	CURVE	Δ	D°	R	T	L	P.C. STA.	P.I. STA.	P.T. STA.
R - S.T.H. 36	1	3°-41'-27"	1°-00'-00"	5,729.58	184.61	369.09	35+07.20	36+91.81	38+76.29
R - S.T.H. 36	2	4°-50'-42"	0°-30'-00"	11,459.16	484.80	969.02	41+41.05	46+25.85	51+10.07
R - S.T.H. 36	3	40°-07'-33"	1°-45'-00"	3,274.04	1,195.73	2,292.90	51+10.07	63+05.80	74+02.97
O.E.W.B. PAV'T.	4	5°-20'-05"	2°-30'-00"	2,291.83	106.77	213.39	-	-	-
O.E.W.B. PAV'T.	5	7°-43'-51"	1°-30'-00"	3,819.72	258.09	515.39	-	-	-
O.E.E.B. PAV'T.	6	15°-27'-50"	4°-00'-00"	1,432.39	194.48	386.60	-	-	-
O.E.E.B. PAV'T.	7	4°-54'-43"	2°-30'-00"	2,291.83	98.30	196.48	-	-	-
R - C A	1	11°-15'-00"	7°-30'-00"	763.94	75.24	150.00	611+00.00	611+75.24	612+50.00
R - C A	2	42°-38'-24"	14°-00'-00"	409.26	159.73	304.57	612+50.00	614+09.73	615+54.57
R - C A	3	37°-58'-14"	18°-00'-00"	318.31	109.51	210.95	618+19.78	619+29.29	620+30.73
R - C A	4	41°-59'-57"	28°-00'-00"	204.63	78.55	150.00	622+67.99	623+46.54	624+17.99
R - C A	5	24°-30'-00"	14°-00'-00"	409.26	88.86	175.00	624+17.99	625+06.85	625+92.99
R - D A		29°-26'-10"	19°-00'-00"	301.56	79.21	154.93	620+30.73	621+09.94	621+85.66
R - B C	1	146°-33'-51"	28°-00'-00"	204.63	681.29	523.44	612+51.56	619+32.85	617+75.00
R - B C	2	21°-00'-00"	14°-00'-00"	409.26	75.85	150.00	617+75.00	618+50.85	619+25.00
R - B C	3	15°-00'-00"	7°-30'-00"	763.94	100.58	200.00	619+25.00	620+25.58	621+25.00
R - C B	3	83°-53'-20"	—	175.00	—	256.22	615+98.94	—	618+55.16
R - C B	1	24°-21'-05"	14°-00'-00"	409.26	88.30	173.94	609+02.32	609+90.62	610+76.26
R - C B	2	140°-22'-33"	28°-00'-00"	204.63	—	501.34	610+76.26	—	615+98.94
R - C B	4	20°-14'-17"	7°-30'-00"	763.94	136.34	269.84	618+55.16	619+91.00	621+25.00
R - D B		43°-13'-18"	22°-00'-00"	260.44	103.17	196.46	612+83.54	613+86.71	614+80.00
R - A C	1	15°-00'-00"	7°-30'-00"	763.94	100.58	200.00	611+25.00	612+25.58	613+25.00
R - A C	2	36°-26'-01"	14°-00'-00"	409.26	134.69	260.24	613+25.00	614+59.69	615+85.24
R - A C	3	60°-28'-38"	18°-00'-00"	318.31	185.55	335.99	618+70.51	620+56.06	622+06.50

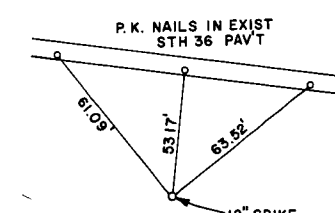
*ARC DEFINITION



P.C. STA. 41+41.05



P.I. STA. 46+25.85



P.C.C. STA. 51+10.07

S.T. H. 36 TIES

ALIGNMENT PLAN
S.T.H 36 INTERCHANGE

GENOA CITY-ELKHORN ROAD

U. S. H. 12

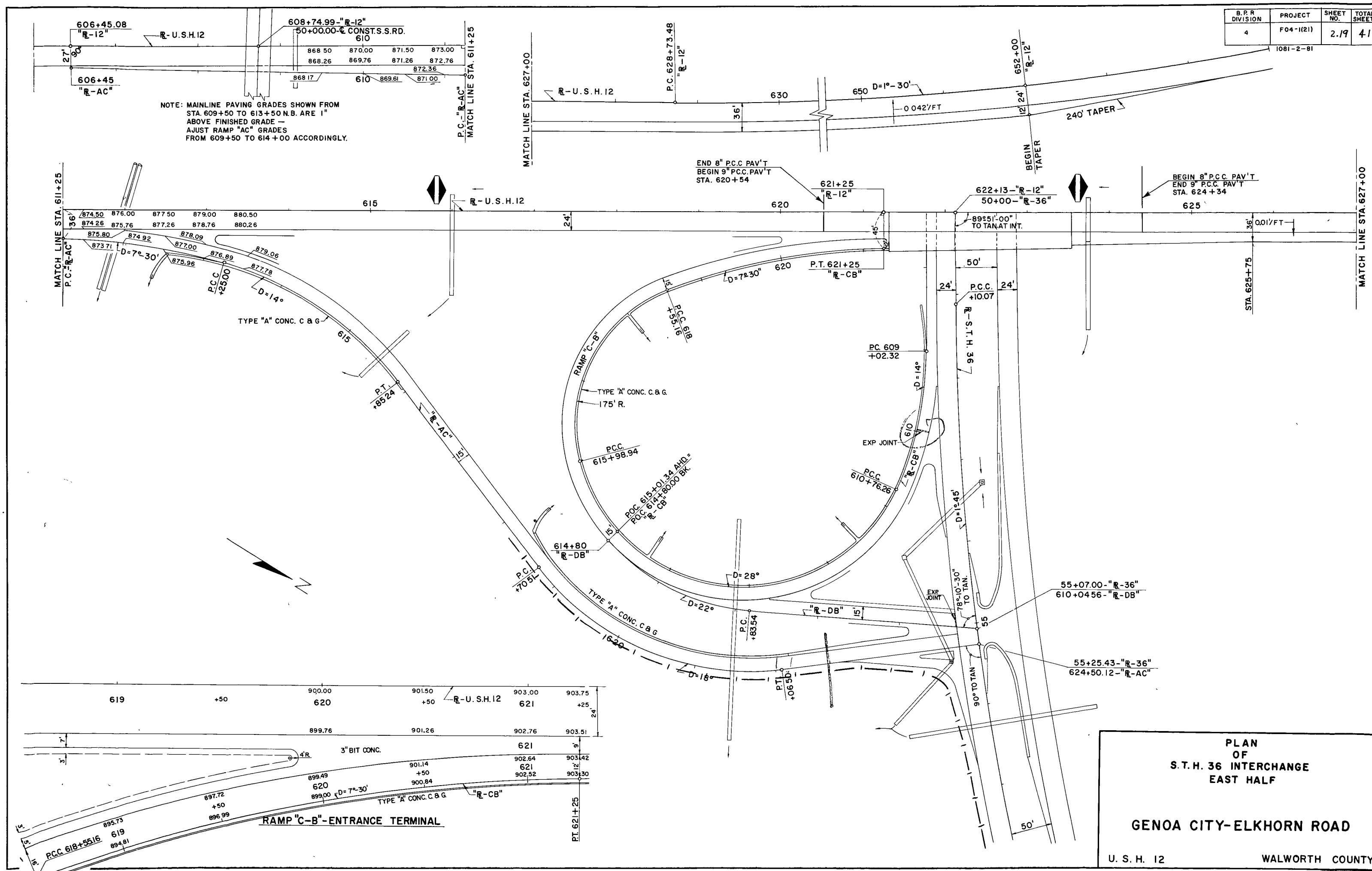
WALWORTH COUNTY

Δ = 20° 48' 56"

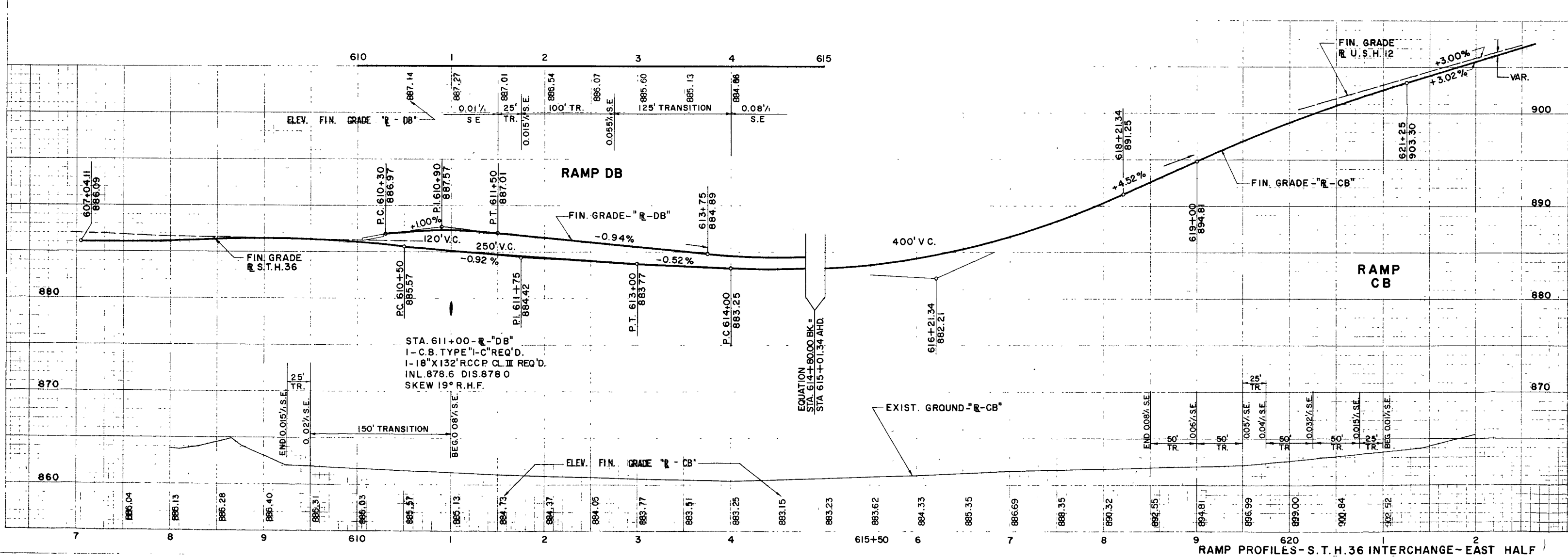
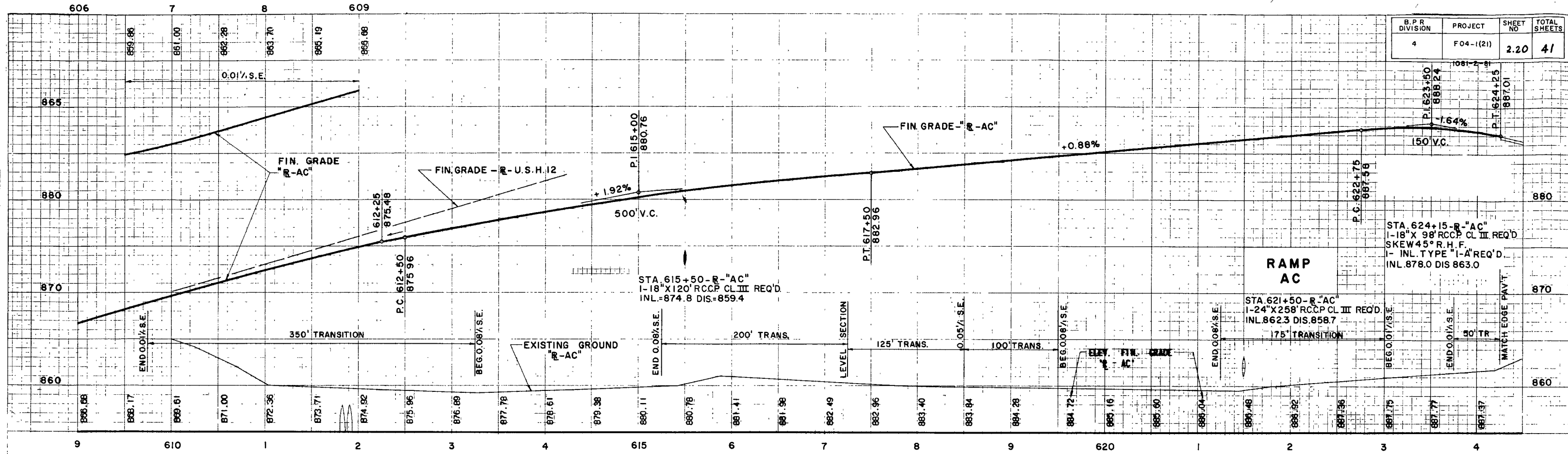
11° 57' 38"

B. P. R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	2.19	4.1

1081-2-81



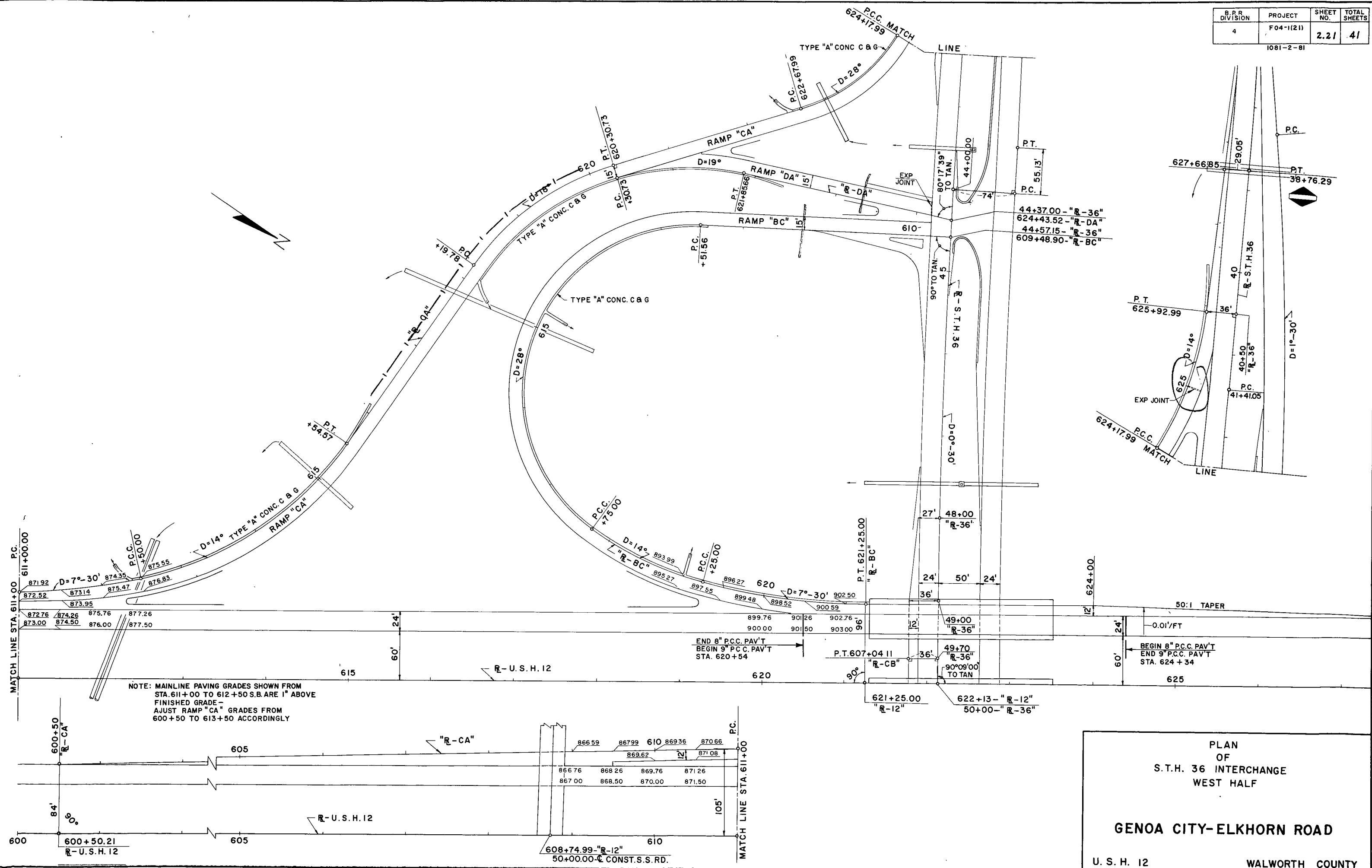
B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-(121)	2.20	41



RAMP PROFILES-S.T.H.36 INTERCHANGE-EAST HALF

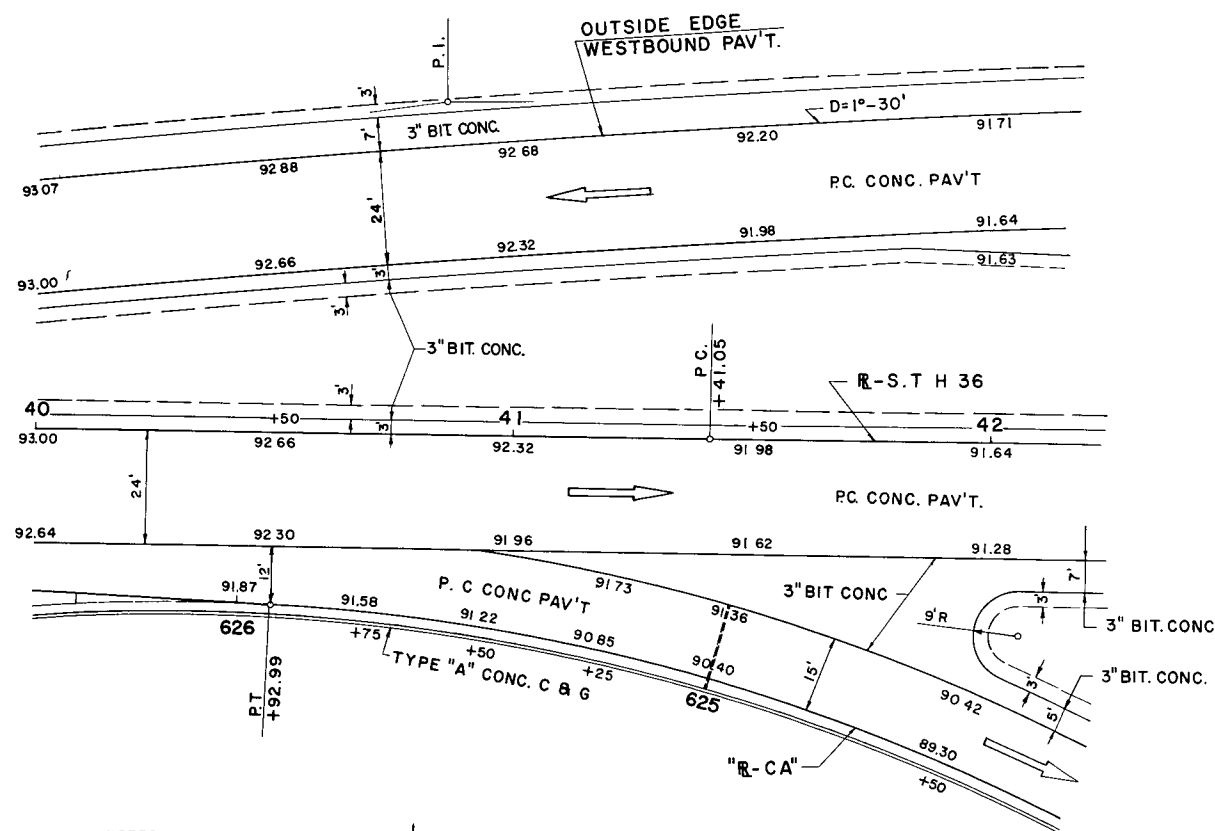
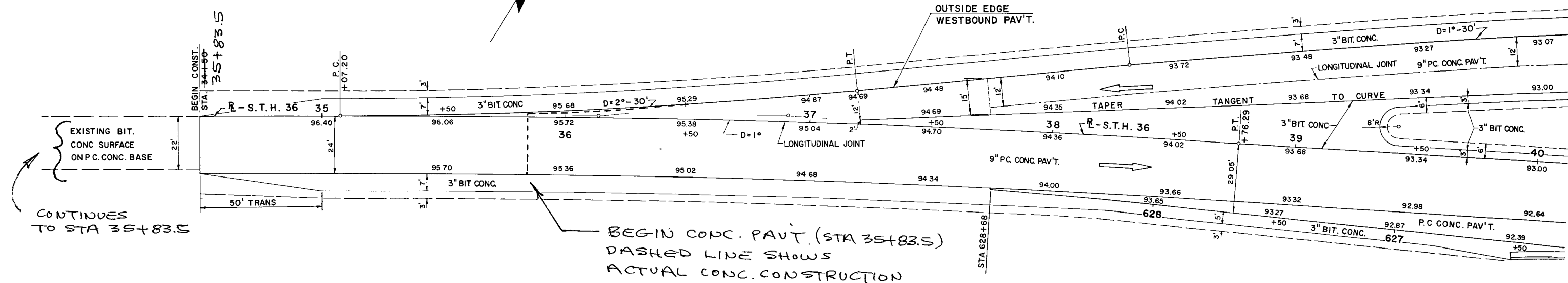
B.R.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	2.21	41

1081-2-81

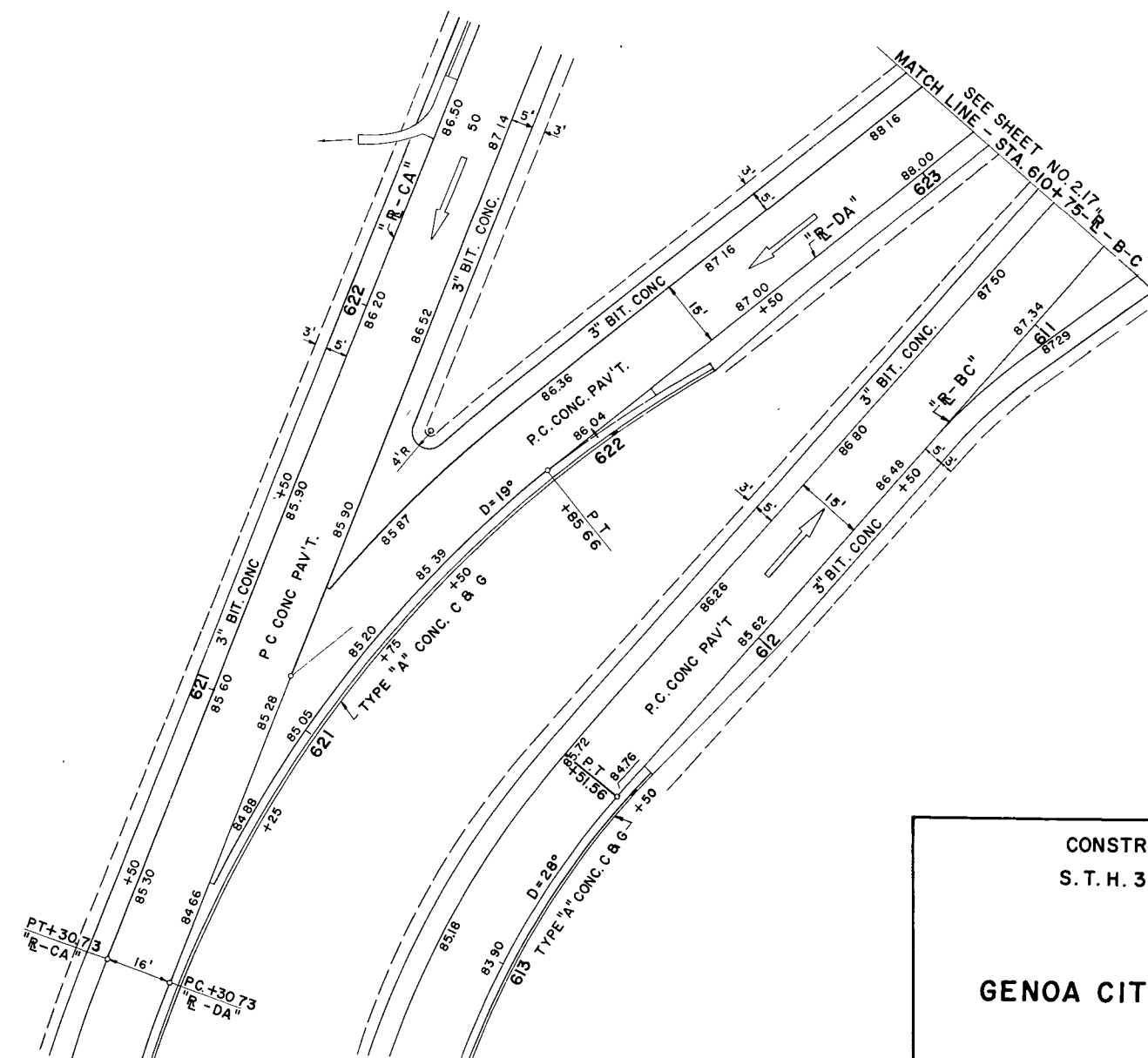


B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	2.23	41

1081-2-81



- NOTES:
- 1 ADD 800 TO ALL ELEVATIONS
 - 2 --- SHOULDER LINE
 - 3 - - - - - EXPANSION JOINT



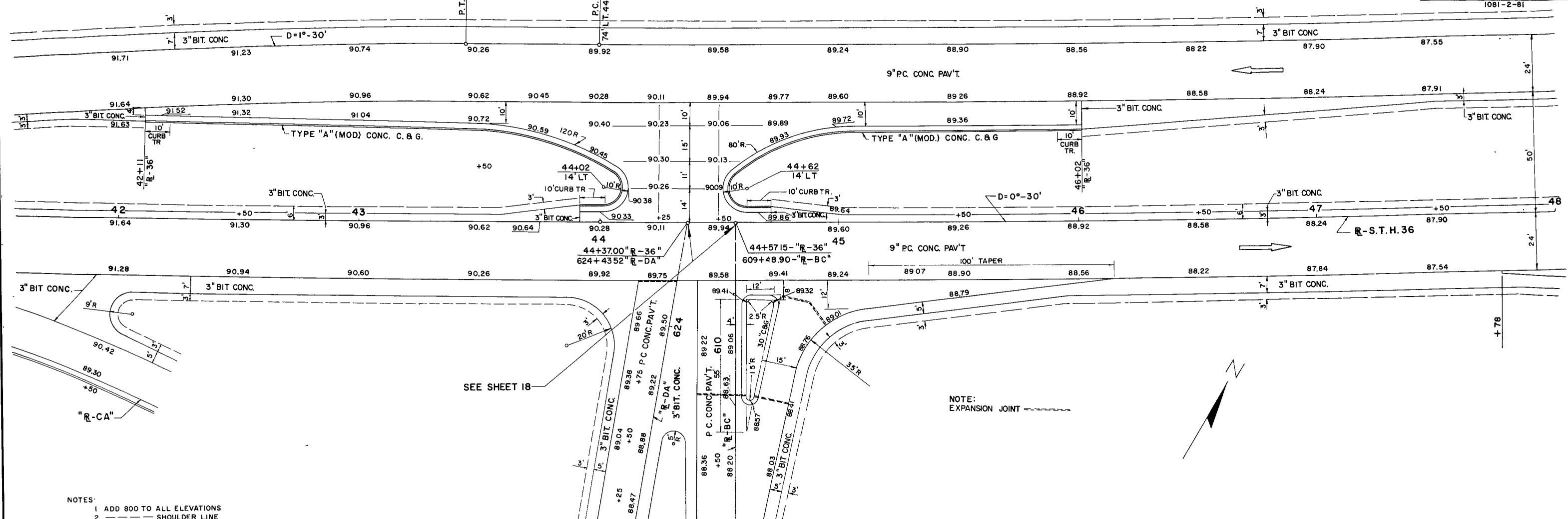
CONSTRUCTION DETAILS
S.T.H. 36 INTERCHANGE

GENOA CITY-ELKHORN ROAD

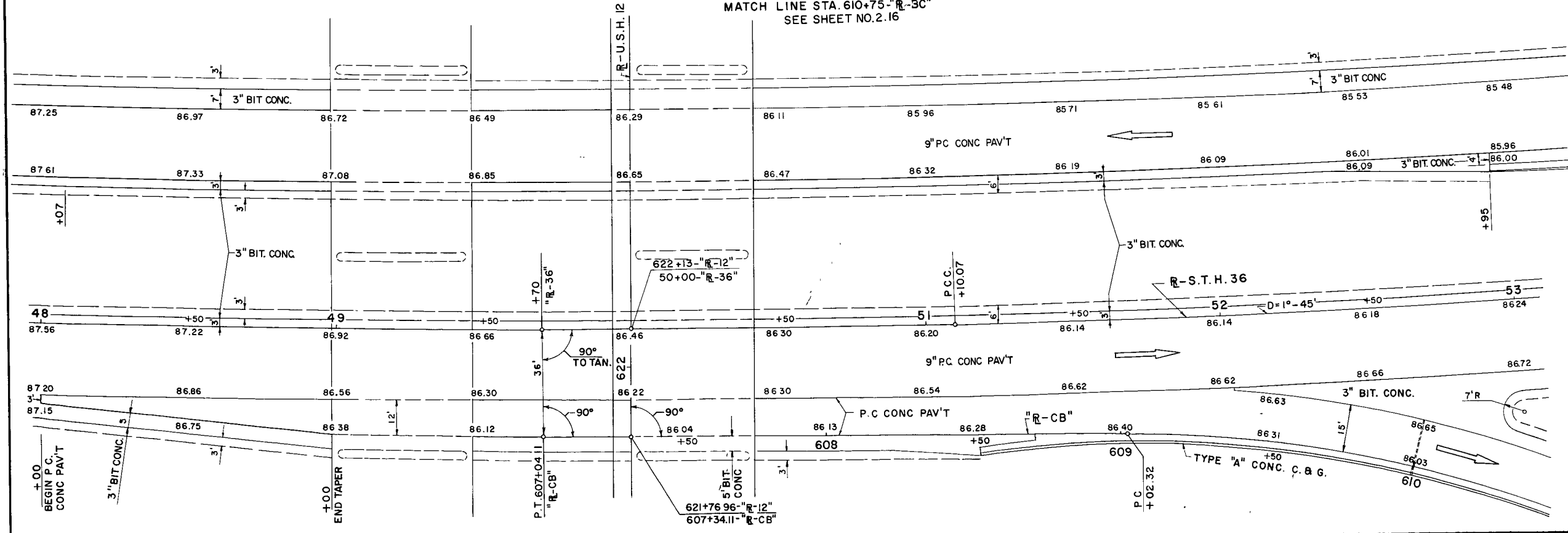
U. S. H. 12

WALWORTH COUNTY

B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F 04-1(21)	2.24	41



- NOTES:
1. ADD 800 TO ALL ELEVATIONS
 2. --- SHOULDER LINE



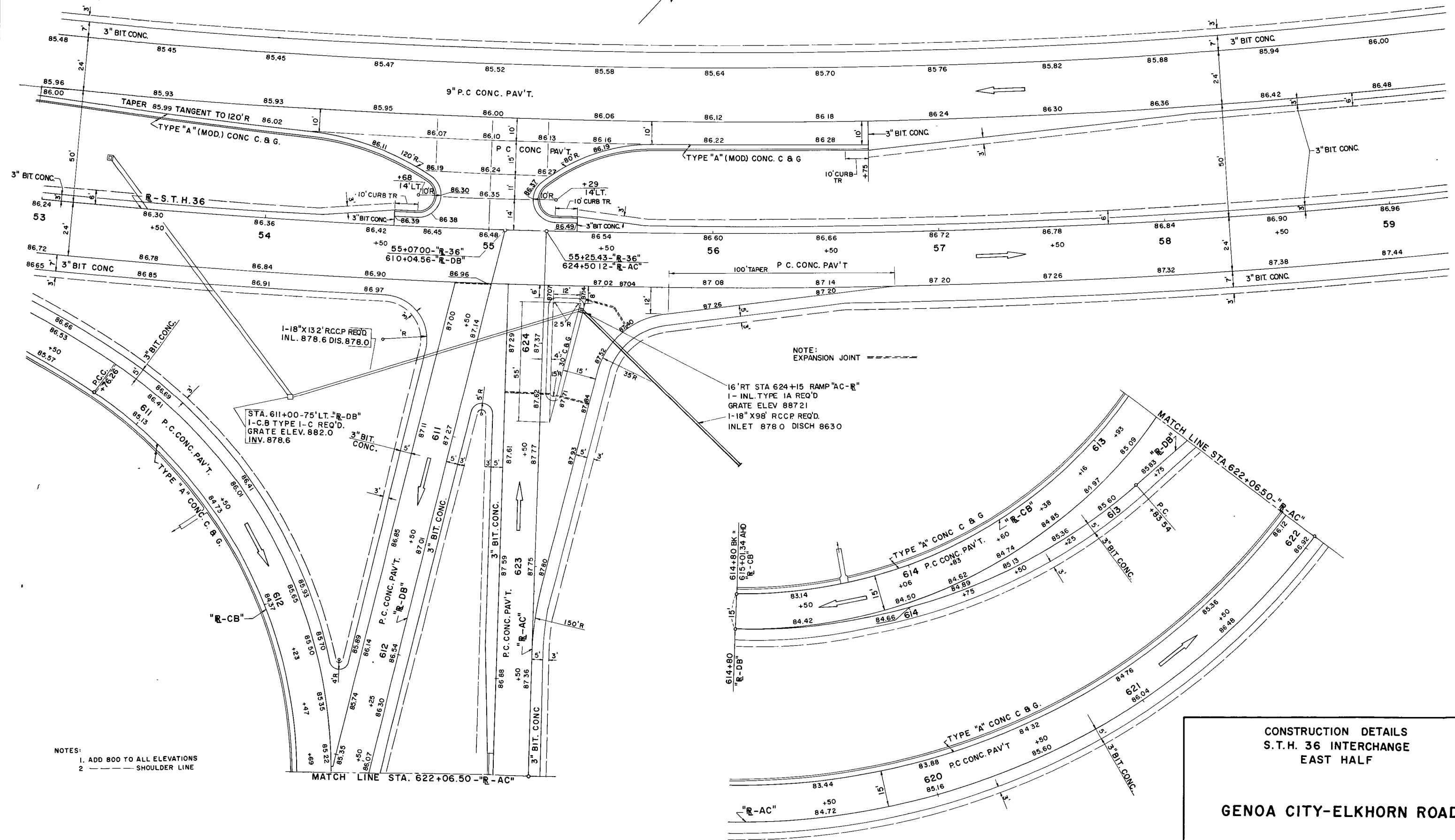
CONSTRUCTION DETAILS
S.T.H. 36 INTERCHANGE
WEST HALF

GENOA CITY-ELKHORN ROAD

U. S. H. 12 WALWORTH COUNTY

S.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	2.25	41

1081-2-81



NOTES:
1. ADD 800 TO ALL ELEVATIONS
2. --- SHOULDER LINE

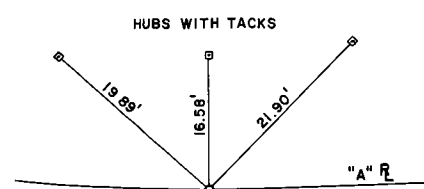
CONSTRUCTION DETAILS
S.T.H. 36 INTERCHANGE
EAST HALF

GENOA CITY-ELKHORN ROAD

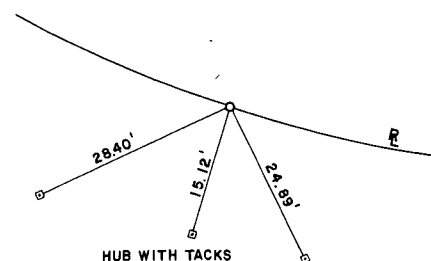
U. S. H. 12

WALWORTH COUNTY

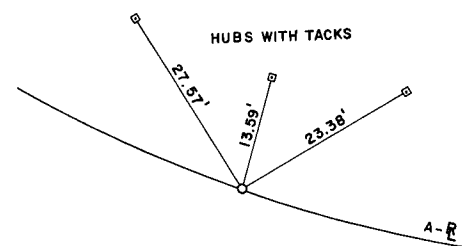
PROJECT ID 1081-2-81	SHEET NUMBER 2.43	TOTAL SHEETS 41
FEDERAL PROJECT DESIGNATION F04-1(21)		



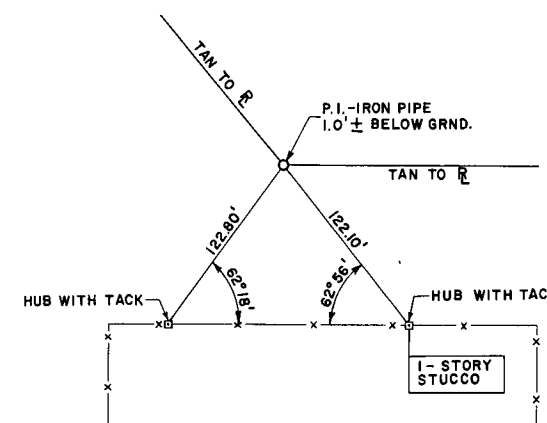
P.C. STA. 708+89.05 A-R



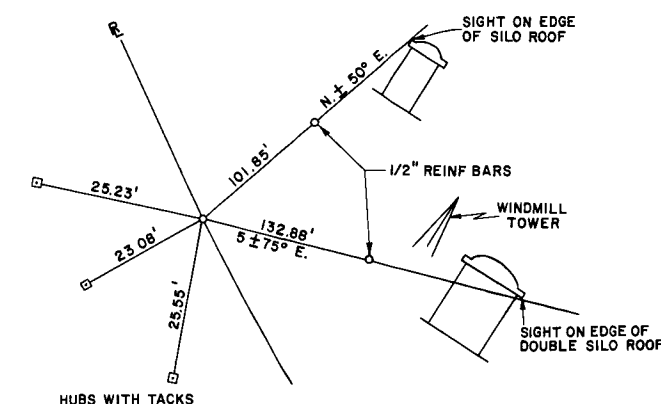
P.O.C. STA. 719+00.00 R



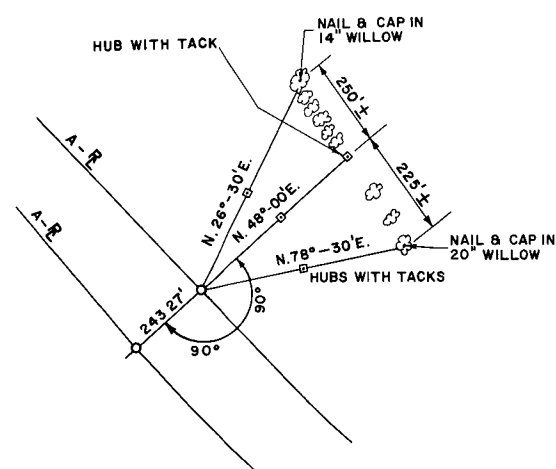
P.O.C. STA. 720+00.00 A-R



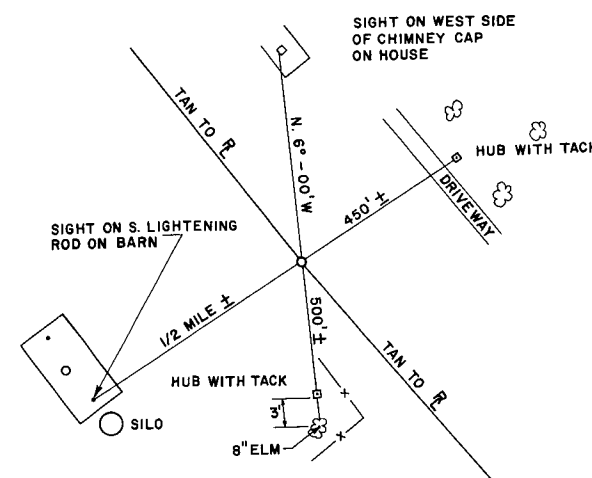
P.I. STA. 723+10.99 R



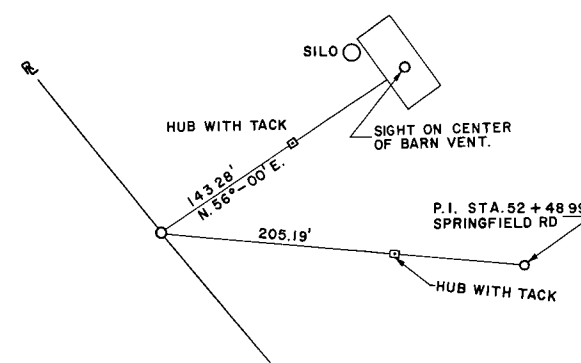
P.T. STA. 910+42.16 R



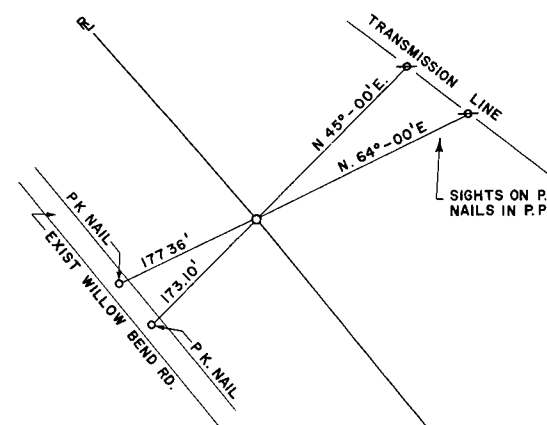
P.T. STA. 742+64.60 A-R BK=PT. STA. 741+20.57 A-R AHD.
8 P.O.T. STA. 741+27.82 R



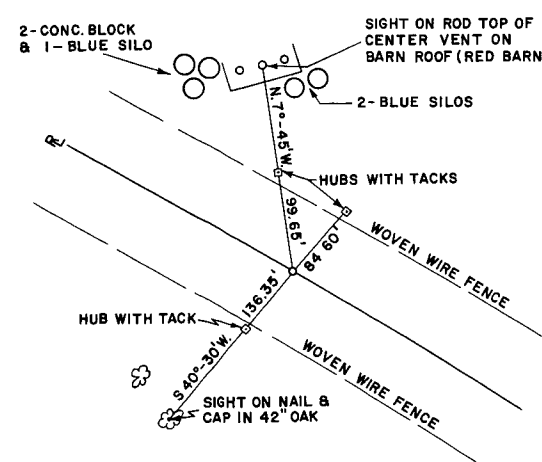
P.I. STA. 781+11.14 R



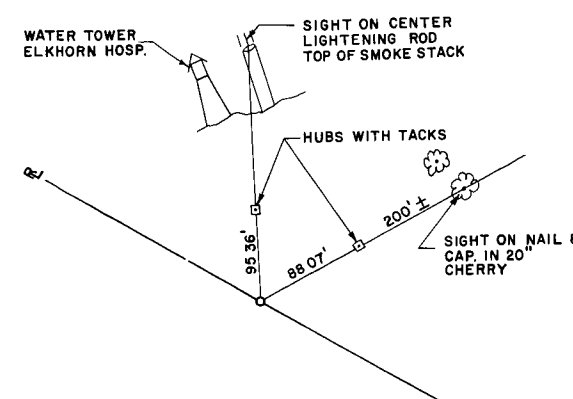
P.T. STA. 789+01.00 R



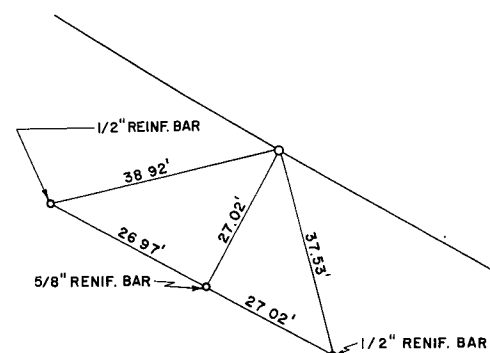
P.C. STA. 803+18.25 R



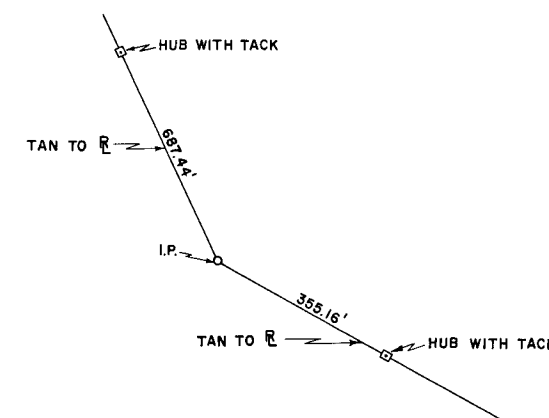
P.T. STA. 817+43.81 R



P.O.T. STA. 824+29.57 R



P.C. STA. 874+42.16 R



P.I. STA. 893+03.81 R

CONSTRUCTION TIES

GENOA CITY - ELKHORN ROAD

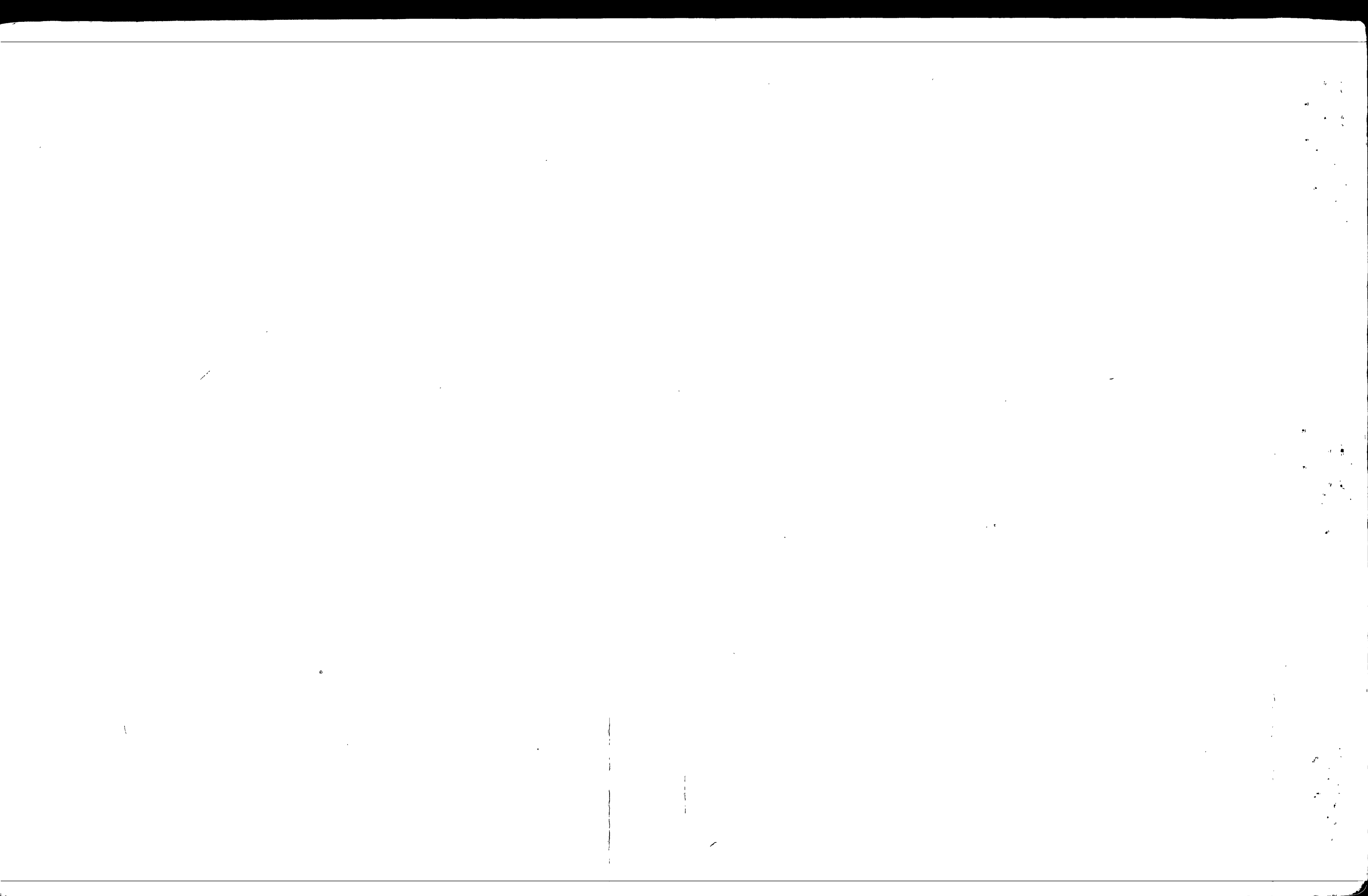
U.S.H 12

WALWORTH COUNTY

BENCH MARKS - EXISTING

BENCH MARKS - EXISTING SHEET 2.44

NO.	DESCRIPTION	ELEVATION	NO.	DESCRIPTION	ELEVATION
	BRASS PLUG S.E. COR. STRUCT. B-64-28	890.40	36X	STA 778+00 R.R. SPIKE IN 42" OAK 340' LT.	968.13
	STA 574+00 TOP OF CULV. PIPE IN MEDIAN	881.55		STA 794+00 TOP OF 2" TEL. CONDUIT BOX 220' LT	1018.53
	STA 590+50 TOP OF CULV. PIPE IN MEDIAN	878.95	38BB	54410 SPRINGFIELD RD. RR. SPIKE IN 24" OAK 60' RT.	1006.66
	STA 597+00 TOP OF CULV. PIPE IN MEDIAN	862.29	38B	42+00 SPRINGFIELD RD. SPIKE IN 30" OAK 25' RT.	1028.55
	STA 602+00 TOP OF CULV. PIPE IN MEDIAN	853.26	38AA	47+95 SPRINGFIELD RD. R.R. SPIKE IN P.P. POLE 50' RT	1022.31
	STA 609+30 TOP OF CULV. PIPE IN MEDIAN	866.08	69	803+00 SPIKE IN 14" POPLAR LT. AT WILLOW BEND RD	1012.07
	STA 616+00 TOP OF CULV. PIPE IN MEDIAN	885.15	69B	824+00 NAIL IN 24" ASH 350' RT.	1003.85
	BRASS PLUG S.E. COR. STRUCT. B-64-32	904.12	69C	826+75 R.R. SPIKE IN 20" CHERRY 250' RT.	1005.13
27A	STA 623+40 R.R. SPIKE IN P.P. 495' LT.	888.89	69F	863+00 R.R. SPIKE IN 24" POPLAR 250' LT.	975.58
	STA 631+00 TOP OF CULV. PIPE IN MEDIAN	930.68	69A-1	807+70 R.R. SPIKE IN 20" MAPLE 190' LT.	1005.92
28	STA 636+15 R.R. SPIKE IN 14" CHERRY 310' LT	998.56		45+35 COMO RD. SPIKE IN P.P. 100' LT.	995.86
	STA 637+00 TOP OF CULV. PIPE IN MEDIAN	948.66		815+70 TOP OF INLET IN MEDIAN	1006.56
28B	STA 637+50 SPIKE IN P.P. 280' RT.	1020.77		822+00 TOP OF INLET IN MEDIAN	1005.05
	STA 645+00 BENT SPIKE IN 12" OAK 360' RT	994.09		851+00 TOP OF INLET IN MEDIAN	986.86
	STA 655+00 SPIKE IN 7" OAK 320' LT.	1010.20		865+00 TOP OF INLET IN MEDIAN	979.43
	STA 656+95 BENT SPIKE IN 5" OAK 230' LT.	991.07		877+00 TOP OF INLET IN MEDIAN	981.16
	STA 657+00 TOP OF CULV. IN MEDIAN	948.09		882+50 TOP OF INLET IN MEDIAN	980.38
	STA 664+80 SPIKE IN 10" OAK 100' LT.	938.26		887+50 TOP OF INLET IN MEDIAN	981.53
	STA 677+00 TOP OF CULV. PIPE IN MEDIAN	889.12		891+00 BRASS PLUG IN WING C-64-9	978.37
	STA 684+00 TOP OF CULV. PIPE IN MEDIAN	879.96		896+50 BRASS PLUG IN WING C-64-10	982.45
	STA 688+00 TOP OF CULV. PIPE IN MEDIAN	866.23			
	BRASS PLUG S. WING STRUCT. B-64-34	850.00			
	STA 695+00 TOP OF CULV. PIPE IN MEDIAN	872.29			
	STA 702+20 TOP OF CULV. PIPE IN MEDIAN	876.18			
	STA 707+00 TOP OF CULV. PIPE IN MEDIAN	877.15			
	STA 712+00 TOP OF CULV. PIPE IN MEDIAN	874.03			
34AAA	STA 732+80 SPIKE IN 12" BOX ELDER 130' RT.	851.33			
35A	STA 755+00 R.R. SPIKE IN 42" OAK 150' RT	874.25			
49B	STA 758+20 NAIL IN 12" OAK IN MEDIAN	892.44			
49A	STA 768+50 SPIKE IN OAK ± 100' LT. OF A-B	938.50			
36AA	STA 772+50 P.K. NAIL IN 48" OAK ± 600' RT.	1010.18			



ESTIMATE OF QUANTITIES

THIS PROJECT IS TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE WISCONSIN DIVISION OF HIGHWAYS - EDITION OF 1969 SUBMITTED FOR APPROVAL OCT. 23, 1968, FEDERAL AID REQUIRED CONTRACT PROVISIONS APPROVED OCT. 15, 1963, AND SPECIAL PROVISIONS AS ATTACHED TO PROPOSALS.

CONTRACT NO. 1 & 2
SURFACING (P.C.CONC.)

BPR REGION	PROJECT	SHEET NO	TOTAL SHEETS
4	F04-1(21)	3	41

1081-2-81 & 82

CONTRACT PROVISIONS APPROVED OCT. 15, 1955, AND SPECIAL PROVISIONS AS ATTACHED TO PROPOSALS.																																1081-2-81 & 82										
CONT NO.	STATION TO STATION		NET LENGTH OF CENTER LINE	CLEARING		GRUBBING		REMOVING OLD CULVERT		REMOVING OLD BRIDGE		REMOV- ING PAVE- MENT			EXCAVATION				GRAN- ULAR BACK- FILL	TEST ROLL- ING	FIELD LAB- ORATORY	FIELD LAB- ORATORY	FINISHING ROADWAY	FIN- ISHING ROAD- WAY	MAIN- TENANCE AND REPAIR OF HAUL ROADS	MAIN- TENANCE AND REPAIR OF HAUL ROADS	FIELD OFFICE TYPE A	FIELD OFFICE TYPE A	CRUSHED AGGREGATE BASE COURSE		ASPHALT STABILIZED BASE COURSE TYPE I		CONCRETE SURFACE DRAINS	BITUMINOUS CONCRETE PAVEMENT	BITUM MAT FOR SURFACE COURSE	CONCRETE PAVEMENT					PAVEMENT TERMINAL ANCHORS	
								STA		STA					UNCL	ROCK	MARSH	BORROW											2-1/2 INCH	ASPHALT FOR TREATING AGG	8-INCH	9-INCH				APP- ROACH SLAB	CONT- INUOUS REINF.	CON- CRETE PAVE REINF.				
																																							2010I	20102		20104
	UNIT	LIN FT	STA	IN DIA.	STA	IN DIA.	L.S.		L.S.		SY		CY		CY		CY		L.S.		L.S.		L.S.		L.S.		L.S.		TON		SY	TON	CY	TON	TON	SY	SY	SY	SY	SY	EACH	
I	563+00-917+76.79		34,971.00									5500			22,500						I		I		I				66,200		250,920	1218	75	16,000	880	177,100	61,000	1050	177,100	61,000	12	
2R	919+16.69-1010+22.34 & 1049+38.45-1109+00		14,876.15																			0.8		0.8		0.8		0.8		25,054		123,850	603	32	72,24	400	69,929	35,048	513	69,929	35,048	2
2M	1010+22.34-1049+38.45		3784.93																			0.2		0.2		0.2		6046		23,550	114		1626	90	19,071	852	291	19,071	852	4		
	TOTAL CONTRACT 2																					I		I		I		31,100		147,400	717	32	8,850	490	89,000	35,900	804	89,000	35,900	6		
																																					</					

* NO FEDERAL PARTICIPATION

[illegible][illegible]

CONTRACT 1

B.P.R REGION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	3 A	41

1081-2-81

M I S C Q U A N



B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	5	41

1081-2-81

544+67.03(A-R) BACK EQUATION
544+30.00(R) AHEAD

BRASS MON.

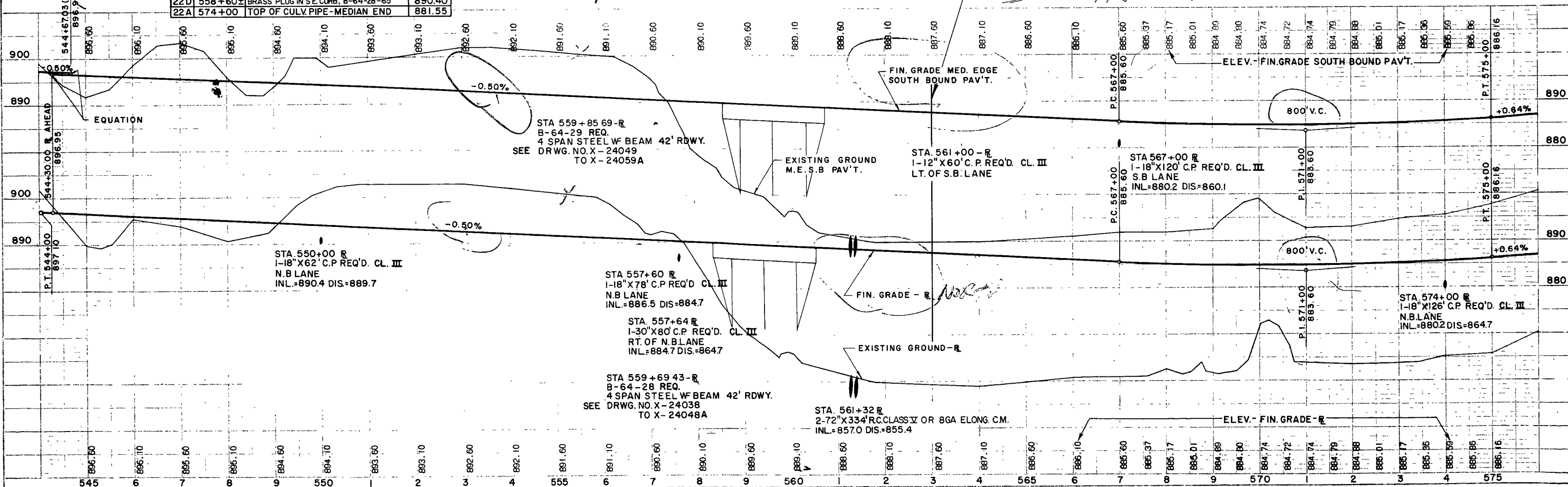
FOR STH. 50 IC
SEE SHEETS

BEGIN PROJECT F04-1(21)
CONTRACT-1
STA. 563+00

RELOCATED TURKEY FARM ROAD

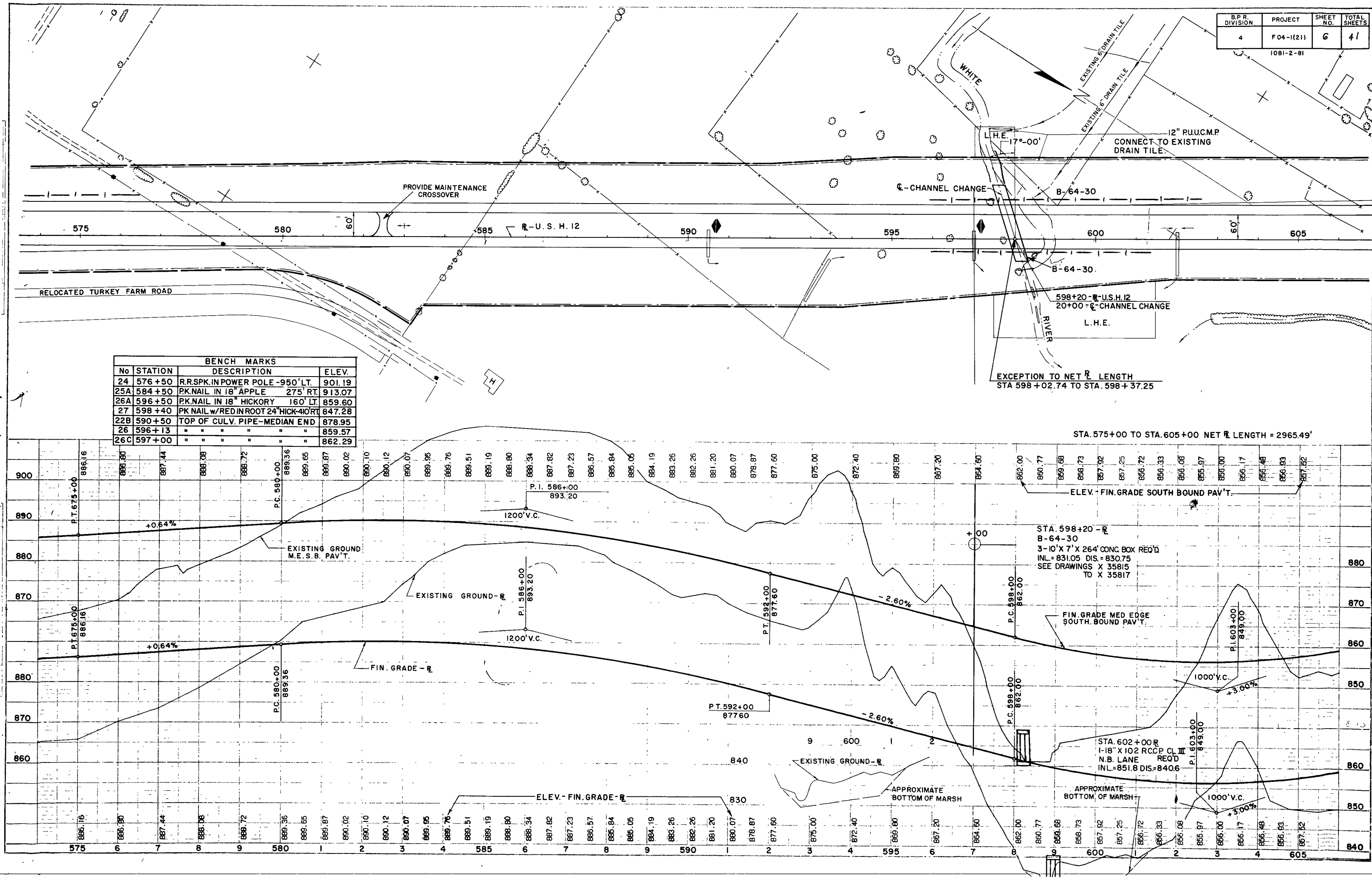
BENCH MARKS			
No	STATION	DESCRIPTION	ELEV.
82	82+00	STH. 50, B.M. ON INLET	856.36
22B	571+30	PK. NAIL IN PP ± 200' LT.	867.34
22C	574+00	PK. NAIL IN PP ± 250' RT.	865.71
22D	558+60±	BRASS PLUG IN S.E. CURB, B-64-28-65	890.40
22A	574+00	TOP OF CULV. PIPE-MEDIAN END	881.55

STA. 563+00 TO STA. 575+00 NET R LENGTH = 1200.00



B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F 04-(121)	6	41

1081-2-81



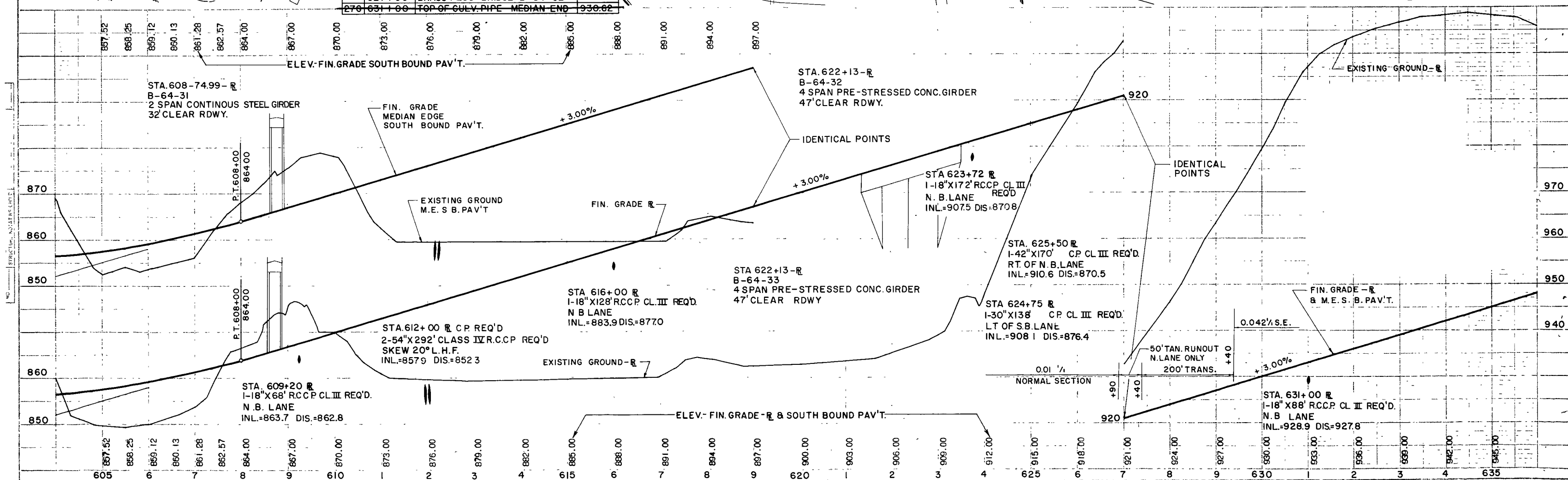
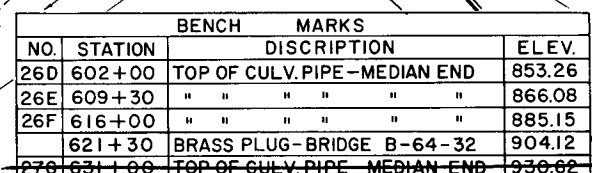
BENCH MARKS			
No	STATION	DESCRIPTION	ELEV.
24	576+50	R.R.SPK.IN POWER POLE - 950' LT.	901.19
25A	584+50	PK.NAIL IN 18" APPLE 275' RT.	913.07
26A	596+50	PK.NAIL IN 18" HICKORY 160' LT.	859.60
27	598+40	PK.NAIL w/RED IN ROOT 24" HICK 410' RT.	847.28
22B	590+50	TOP OF CULV. PIPE-MEDIAN END	878.95
26	596+13	" " " " " " " "	859.57
26C	597+00	" " " " " " " "	862.29

STA. 575+00 TO STA. 605+00 NET $\bar{L}$ LENGTH = 2965.49'

STA. 598+20 - $\bar{L}$
B-64-30
3-10' X 7' X 264' CONC. BOX REQ'D
INL = 831.05 DIS = 830.75
SEE DRAWINGS X 35815
TO X 35817

STA. 602+00 $\bar{L}$
1-18" X 102' RCCP CL III
N.B. LANE REQ'D
INL = 851.8 DIS = 840.6

1081-2-8



B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F 04-1(21)	8	41

1081-2-81

CURVE DATA - R
P.I. = 649+47.48
Δ = 57°-00'
D = 1°-30' (CHORD)
R = 3819.83'
T = 2074.00'
L = 3800.00'
E = 526.72'
S.E. = 0.042/FT.
P.C. = 628+73.48
P.T. = 666+73.48

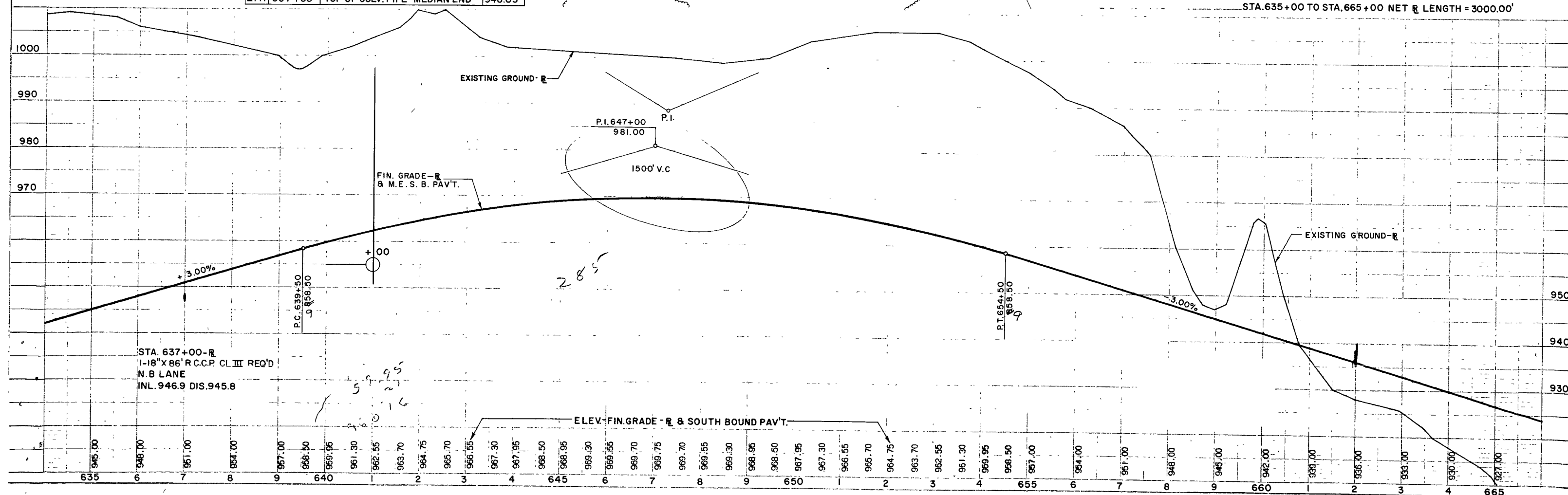
WISCONSIN TELEPHONE CO.
UNDER GROUND CABLE

END PROJECT TO 4-1(33)
STA. 641+00 - R - U.S.H. 12

No.	STATION	DESCRIPTION	ELEV.
28	636+15	R.R. SPK. IN 14" CHERRY - 310' LT.	998.56
29	663+85	TOP OF T-BAR "A-31" - 770' LT.	1007.82
30	664+00	R.R. SPK. IN 8" OAK - 765' LT.	1008.45
27H	657+00	TOP OF CULV. PIPE - MEDIAN END	948.05

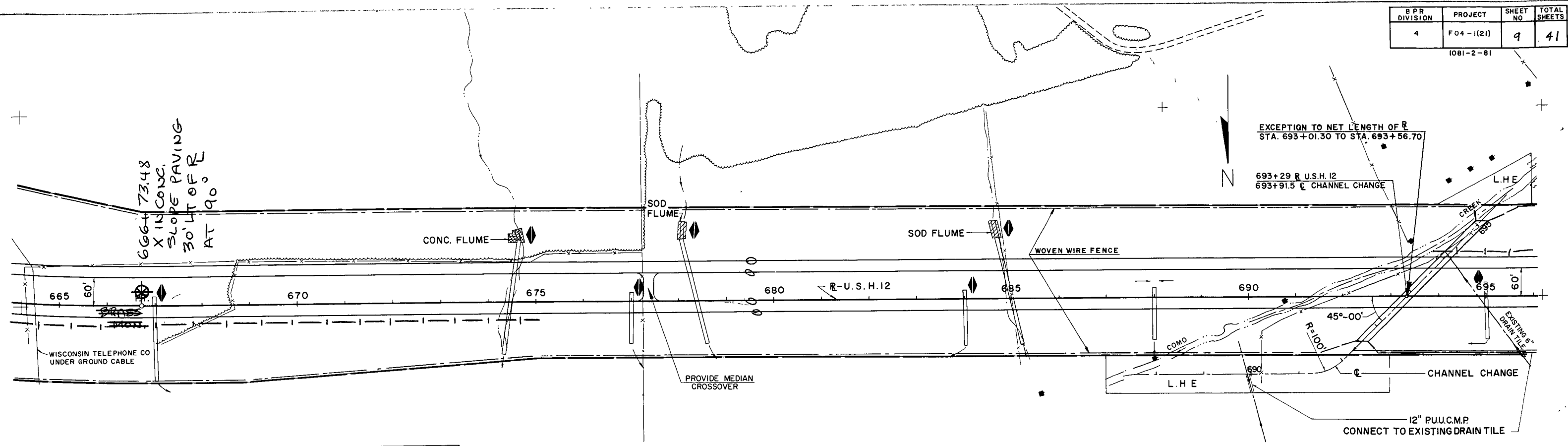
OUTLET DITCH REQ'D.

STA. 635+00 TO STA. 665+00 NET R LENGTH = 3000.00'

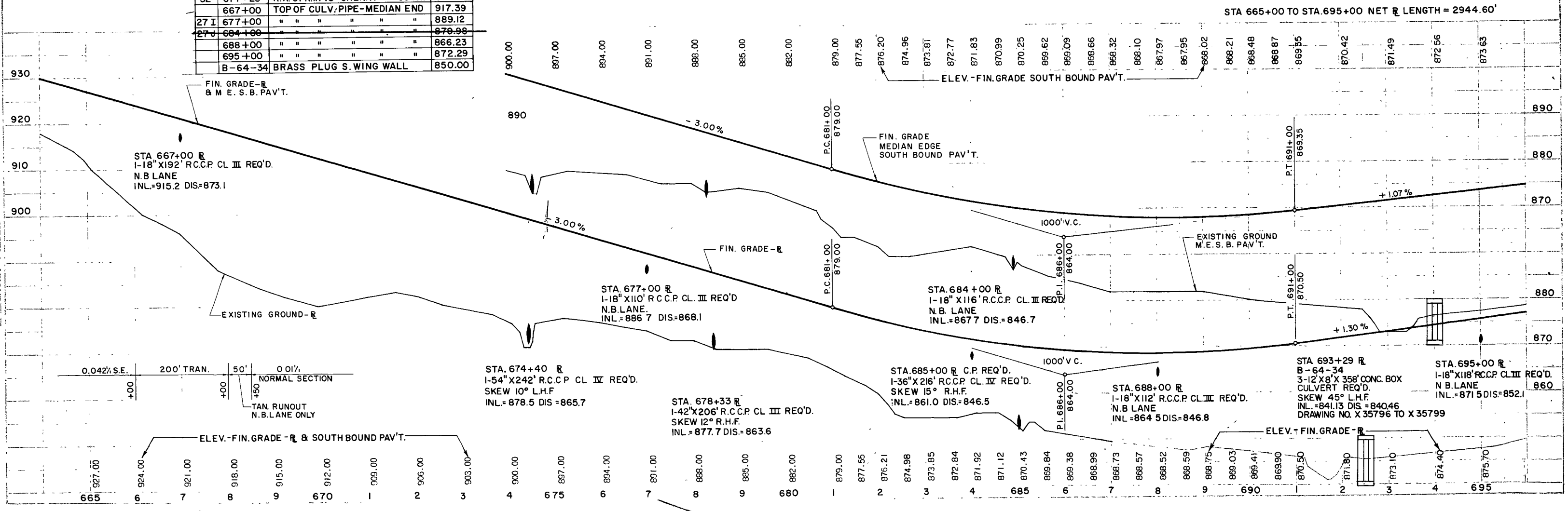


B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04 - (121)	9	41

1081-2-81



No.	STATION	DESCRIPTION	ELEV.
31	668+97	R.R. SPK. IN 32" OAK -35' LT.	885.23
32	677+25	R.R. SPK. IN 10" CHERRY -38' RT.	872.73
	667+00	TOP OF CULV. PIPE-MEDIAN END	917.39
27 I	677+00	" " " " " "	889.12
27 J	684+00	" " " " " "	879.98
	688+00	" " " " " "	866.23
	695+00	" " " " " "	872.29
	B-64-34	BRASS PLUG S. WING WALL	850.00

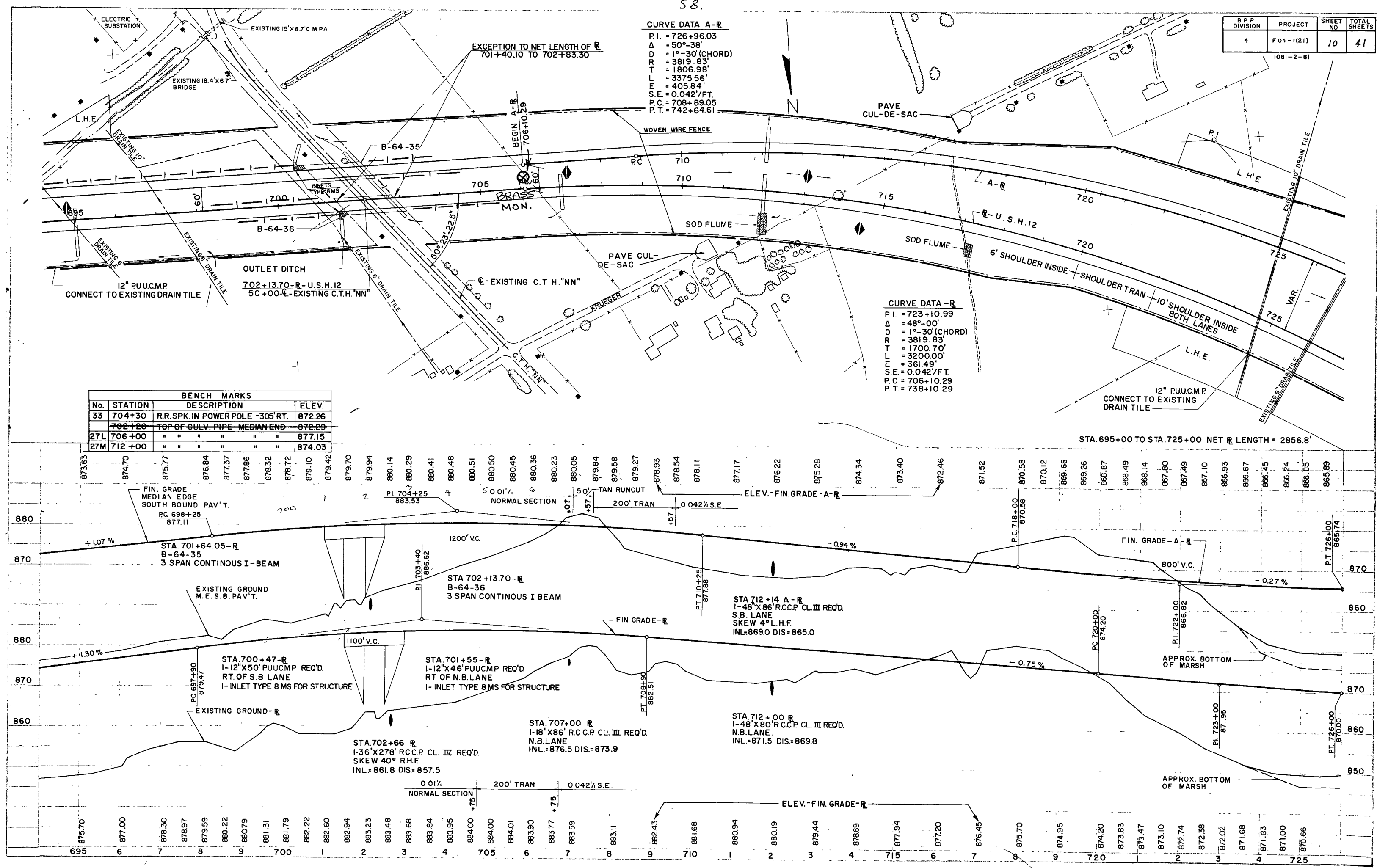


B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	10	41

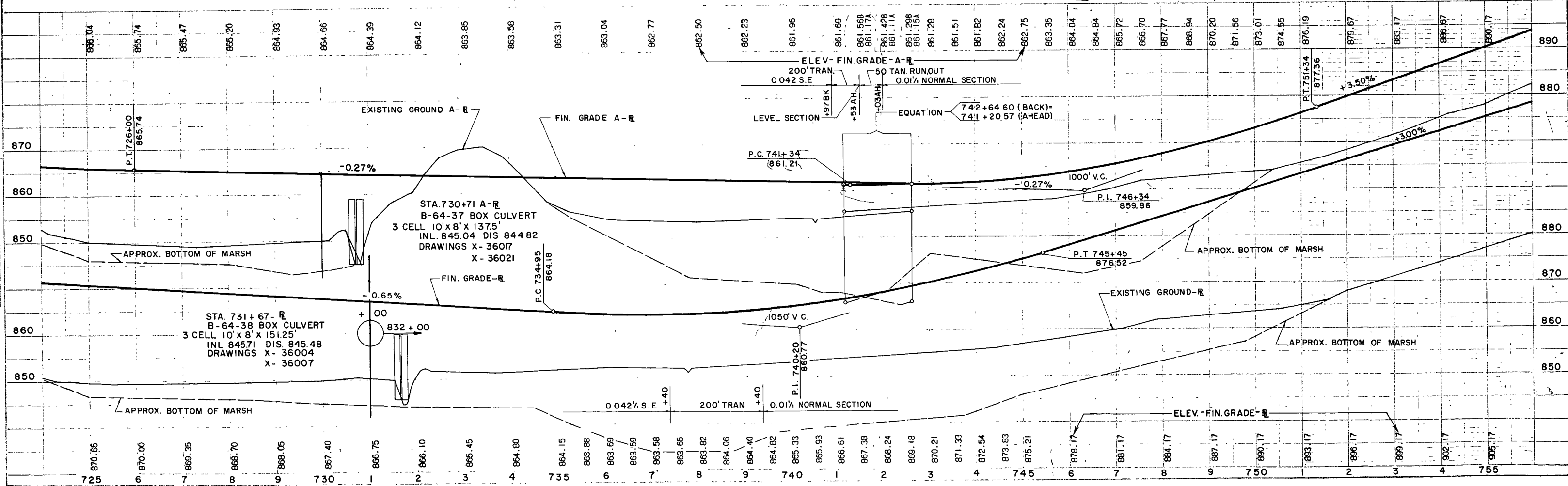
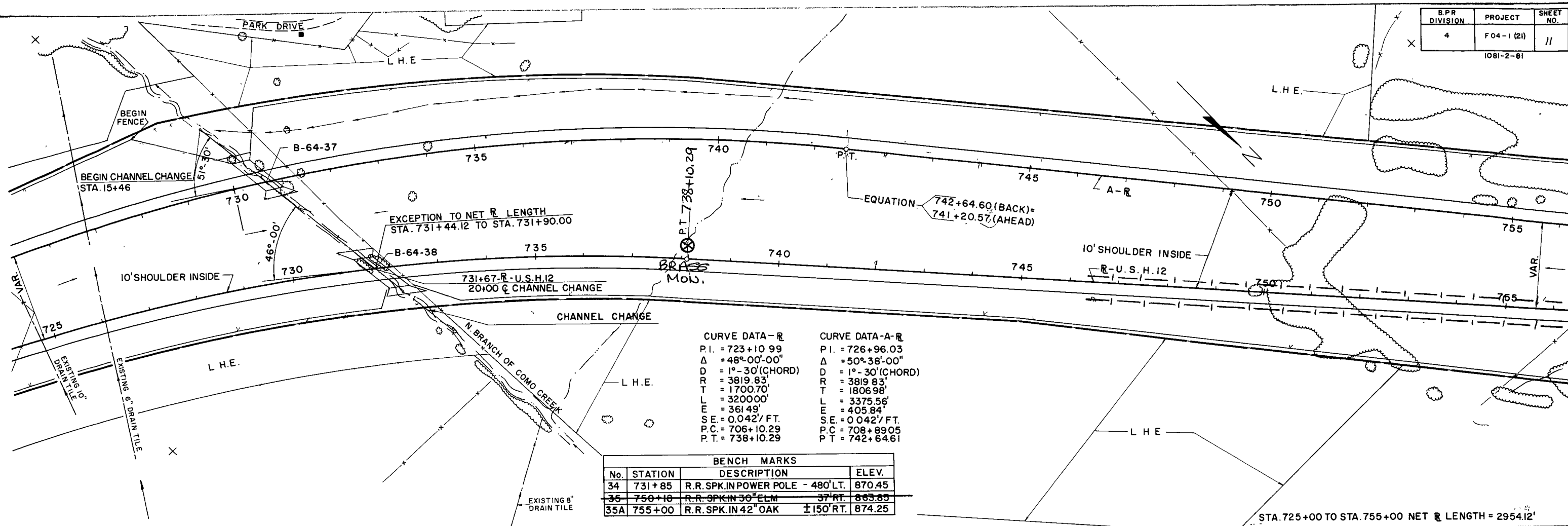
CURVE DATA A-R
P.I. = 726+96.03
Δ = 50°-38'
D = 1°-30' (CHORD)
R = 3819.83'
T = 1806.98'
L = 3375.56'
E = 405.84'
S.E. = 0.042'/FT.
P.C. = 708+89.05
P.T. = 742+64.61

CURVE DATA -R
P.I. = 723+10.99
Δ = 48°-00'
D = 1°-30' (CHORD)
R = 3819.83'
T = 1700.70'
L = 3200.00'
E = 361.49'
S.E. = 0.042'/FT.
P.C. = 706+10.29
P.T. = 738+10.29

BENCH MARKS			
No.	STATION	DESCRIPTION	ELEV.
33	704+30	R.R. SPK. IN POWER POLE - 305' RT.	872.26
	702+20	TOP OF CULV. PIPE - MEDIAN END	872.29
27L	706+00	" " " " " "	877.15
27M	712+00	" " " " " "	874.03

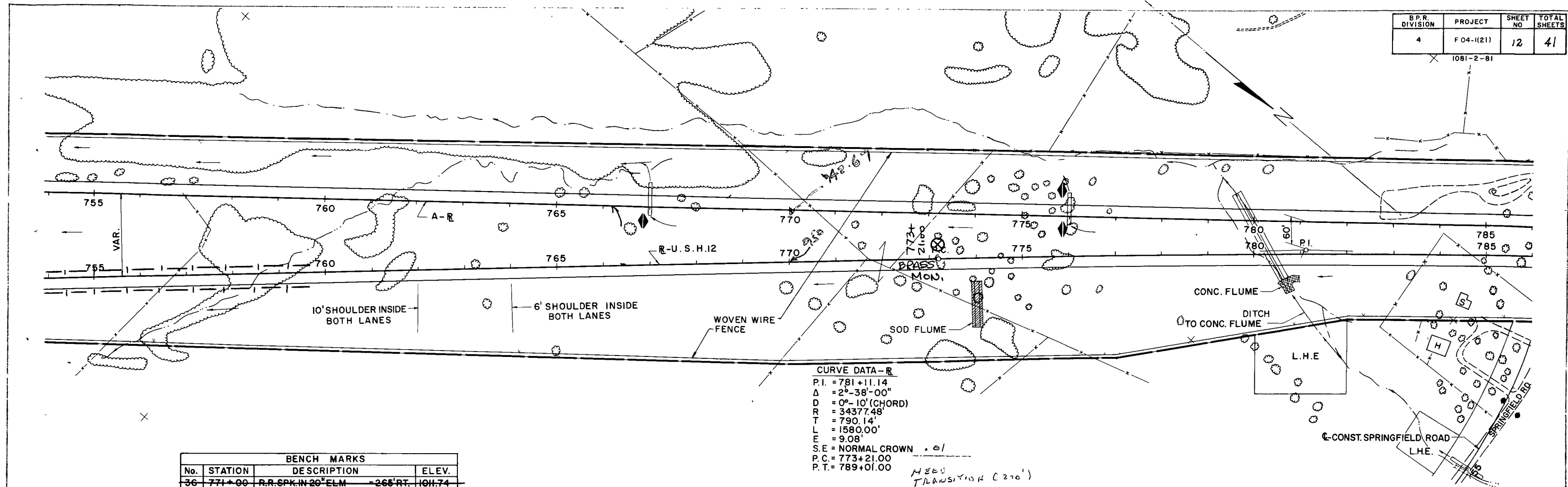


B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1 (21)	11	41
1081-2-81			

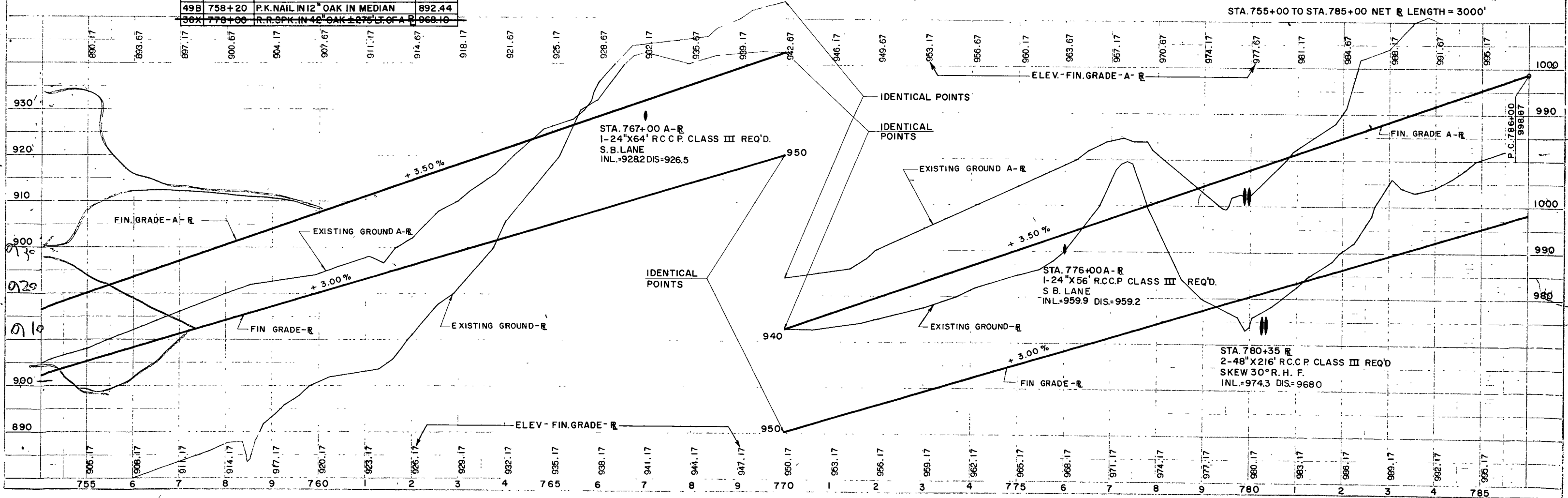


B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F 04-1(21)	12	41

1081-2-81

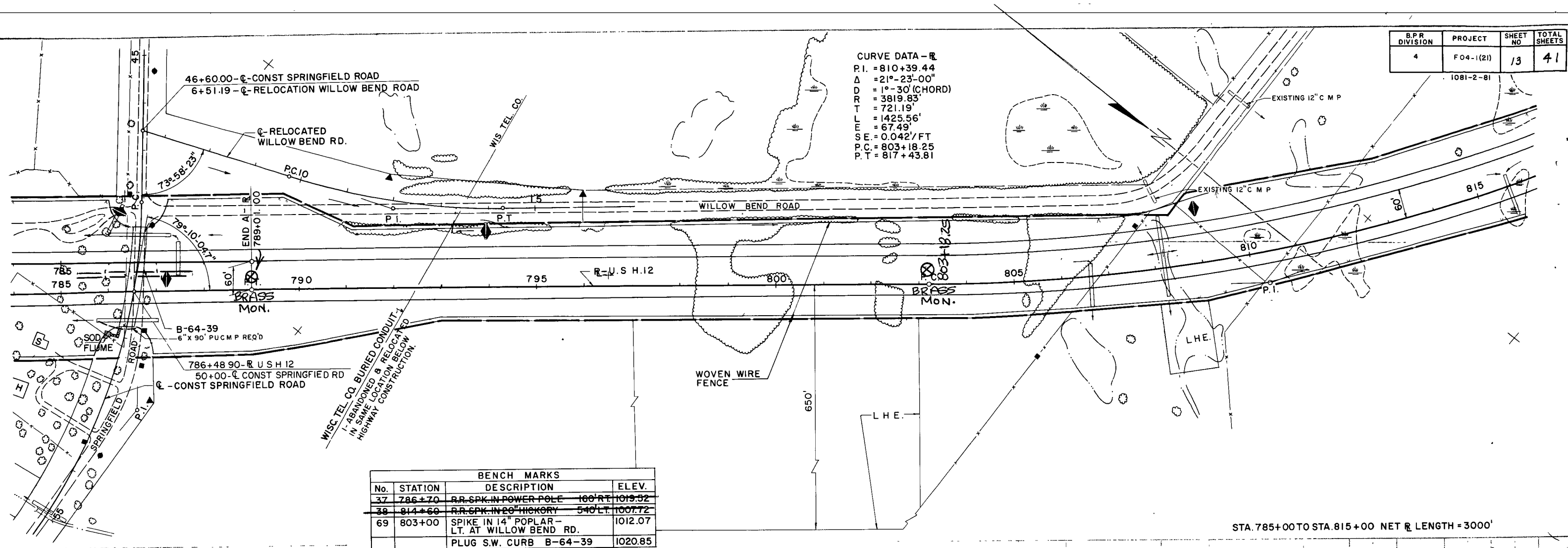


No.	STATION	DESCRIPTION	ELEV.
36	771+00	R.R. SPK IN 20' ELM - 265' RT.	1011.74
49B	758+20	P.K. NAIL IN 12" OAK IN MEDIAN	892.44
36X	778+00	R.R. SPK IN 42" OAK 1275' LT. OF A.P.	968.10



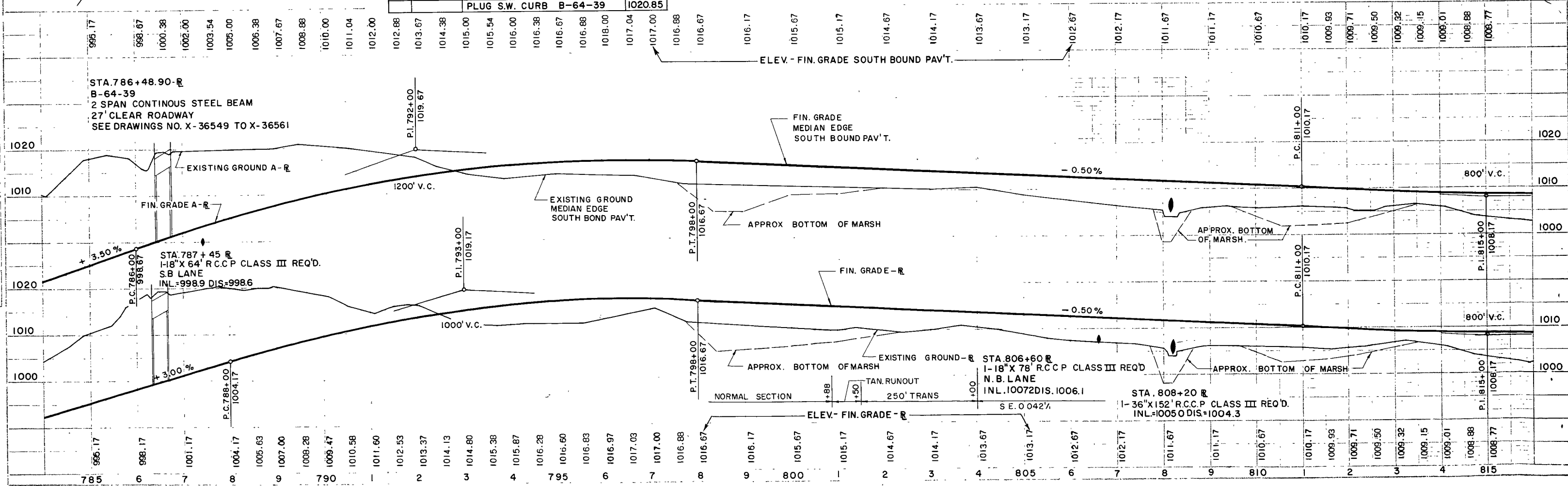
B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	13	41

CURVE DATA - R
P.I. = 810+39.44
Δ = 21°-23'-00"
D = 1°-30' (CHORD)
R = 3819.83'
T = 721.19'
L = 1425.56'
SE = 0.042'/FT
P.C. = 803+18.25
P.T. = 817+43.81



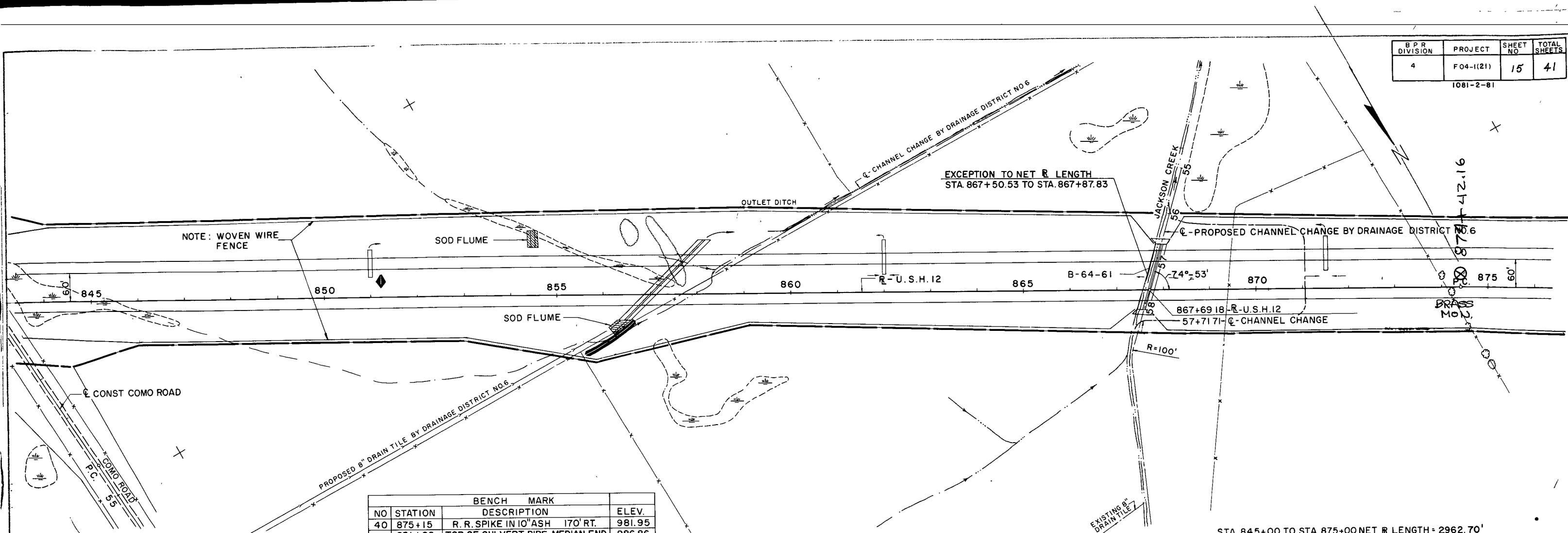
No.	STATION	DESCRIPTION	ELEV.
37	786+70	R.R. SPIKE IN POWER POLE - 160' RT	1019.32
38	814+60	R.R. SPIKE IN 20' HICKORY - 540' LT	1007.72
69	803+00	SPIKE IN 14" POPLAR - LT. AT WILLOW BEND RD.	1012.07
		PLUG S.W. CURB B-64-39	1020.85

STA. 785+00 TO STA. 815+00 NET R LENGTH = 3000'

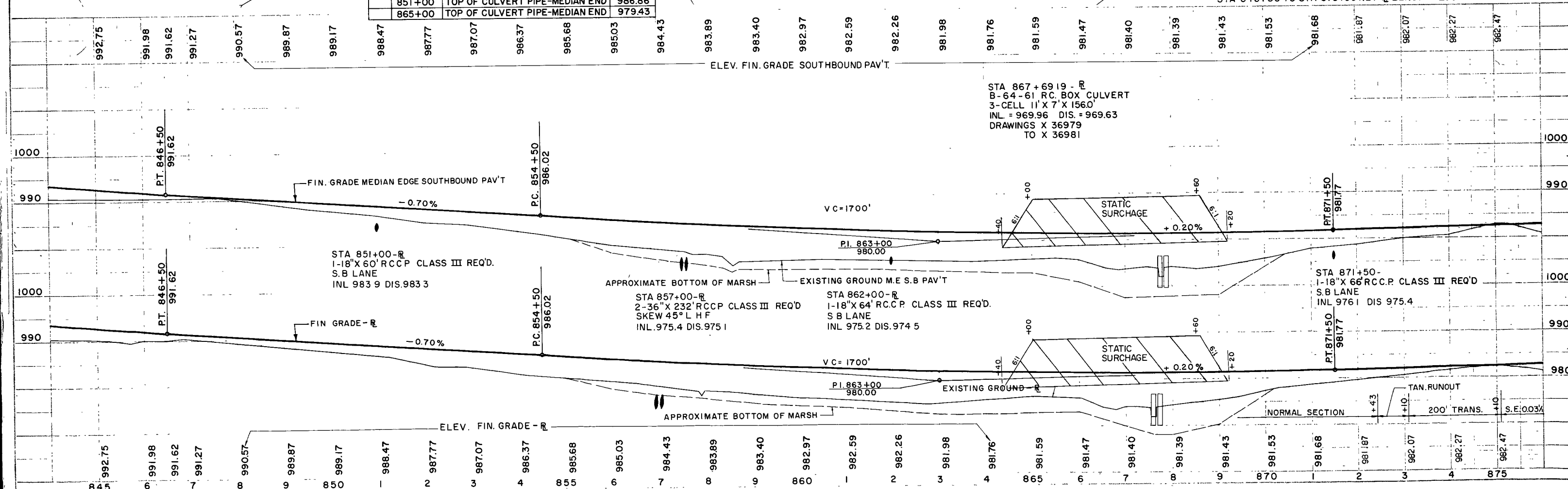


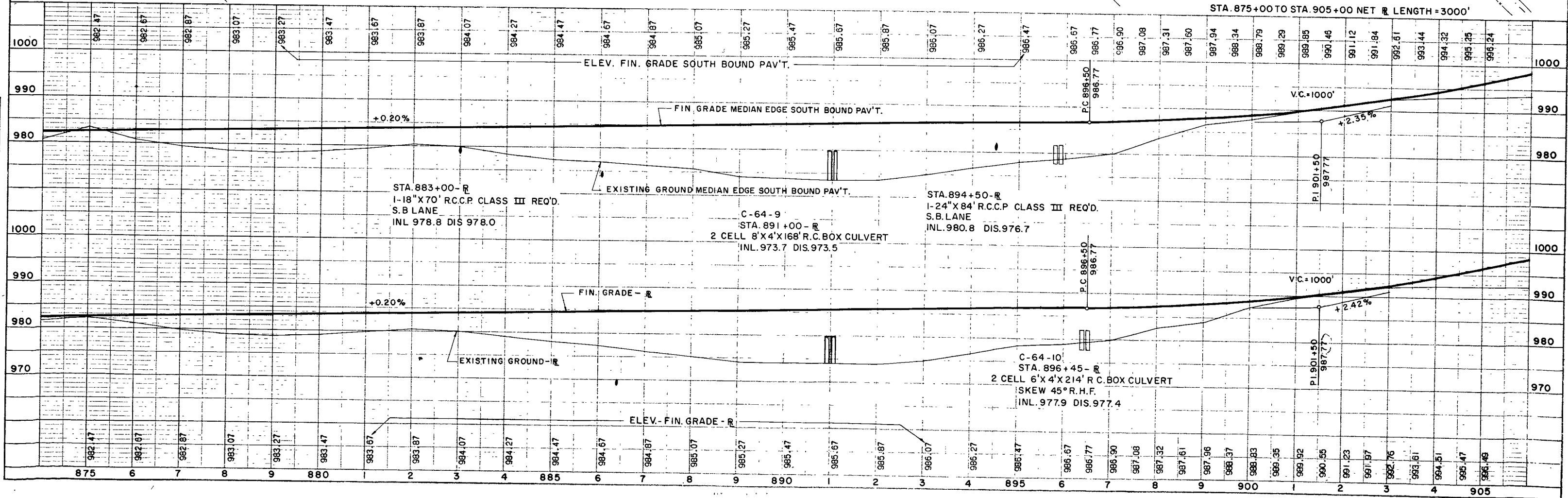
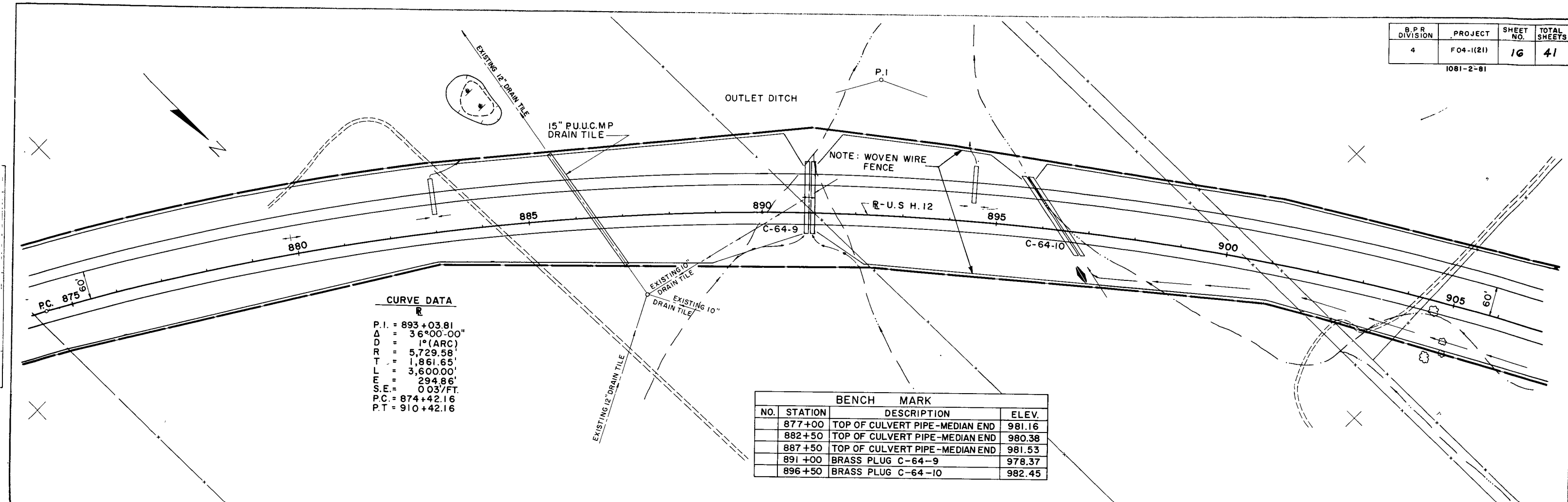
B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	15	41

1081-2-81



NO.	STATION	BENCH MARK DESCRIPTION	ELEV.
40	875+15	R.R. SPIKE IN 10' ASH 170' RT.	981.95
	851+00	TOP OF CULVERT PIPE-MEDIAN END	986.86
	865+00	TOP OF CULVERT PIPE-MEDIAN END	979.43





B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	17	41

1081-2-81

BENCH MARK			
NO.	STATION	DESCRIPTION	ELEV.
41	932+00	R.R. SPIKE IN POWER POLE 195' RT.	1027.31
42	914+35	SQUARE CUT IN N.CULV. HDWALL 465' RT.	1008.01
	908+00	TOP OF CULVERT PIPE - MEDIAN END.	999.68

NOTE: WOVEN WIRE FENCE

END PROJECT F04-1(21) CONTRACT 1
STA. 917+76.79

EXCEPTION TO NET R LENGTH
STA. 933+55.53 TO 935+46.58

934+51.68-R U.S.H. 12
50+00.00-C.M.S.T.P. & P.R.R.

EXCEPTION TO NET R LENGTH
STA. 917+76.79 TO 919+16.69

BEG. CONT. 2 F04-1(21)
STA. 919+16.69

STA. 919+16.69 TO STA. 935+00.00 NET R LENGTH=1438.84
STA. 905+00.00 TO STA. 917+76.79 NET R LENGTH=1276.79

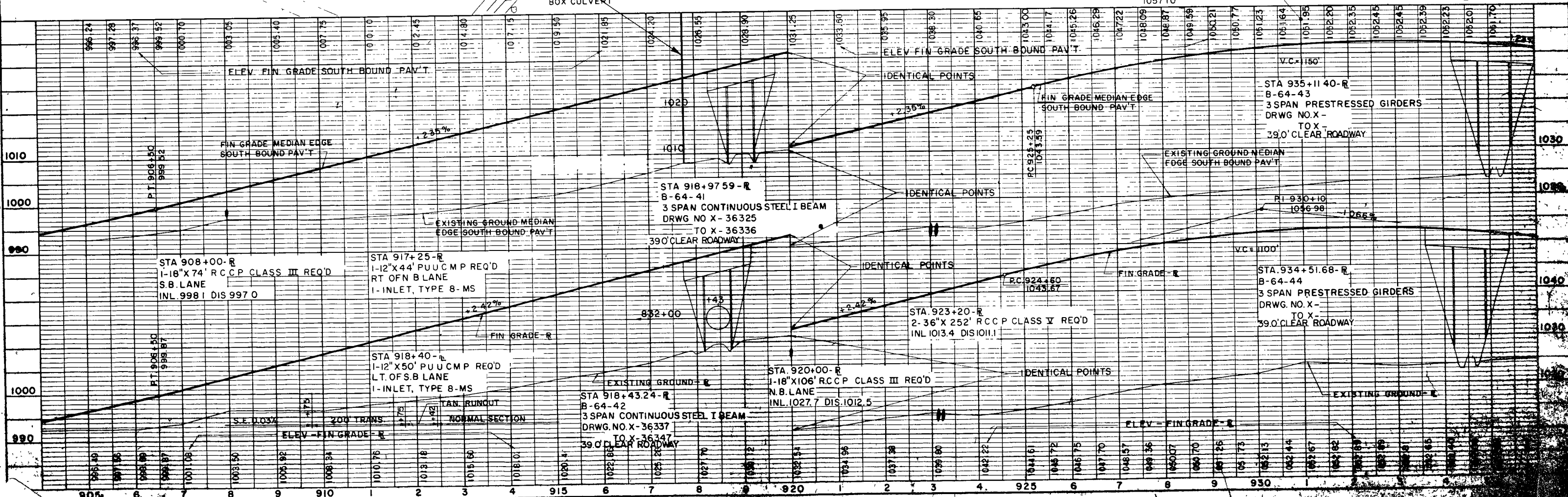
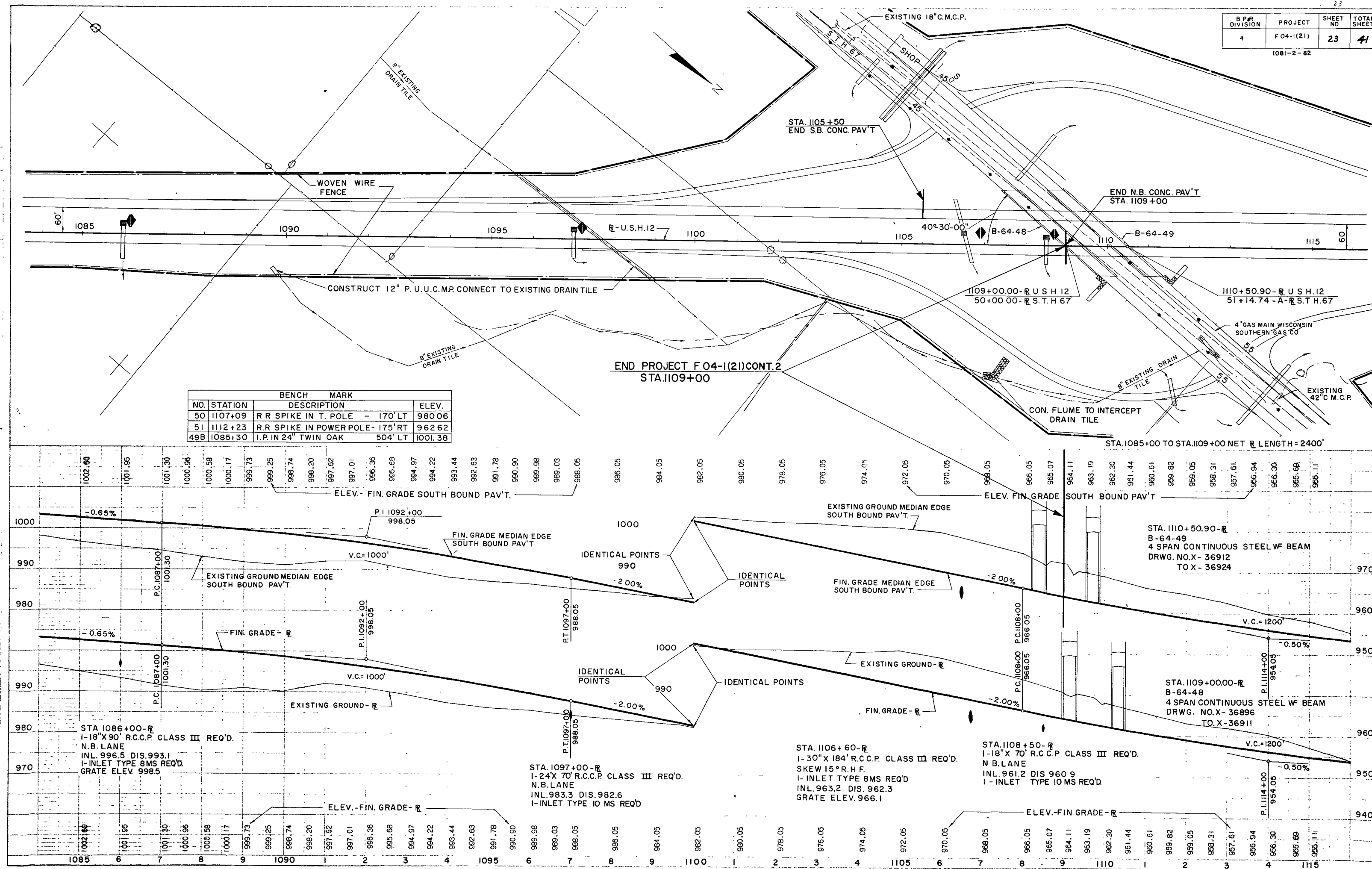


PLATE 1 - PROFILE (S.A.S.E. STANDARD)

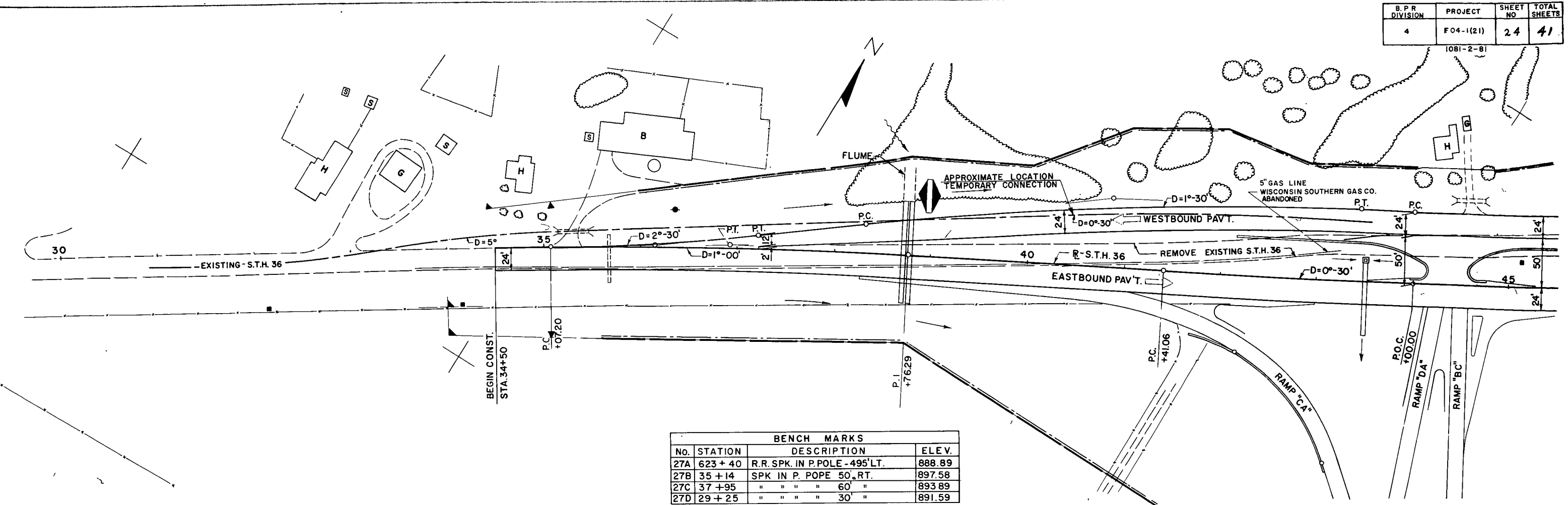
B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	23	41

1081-2-82

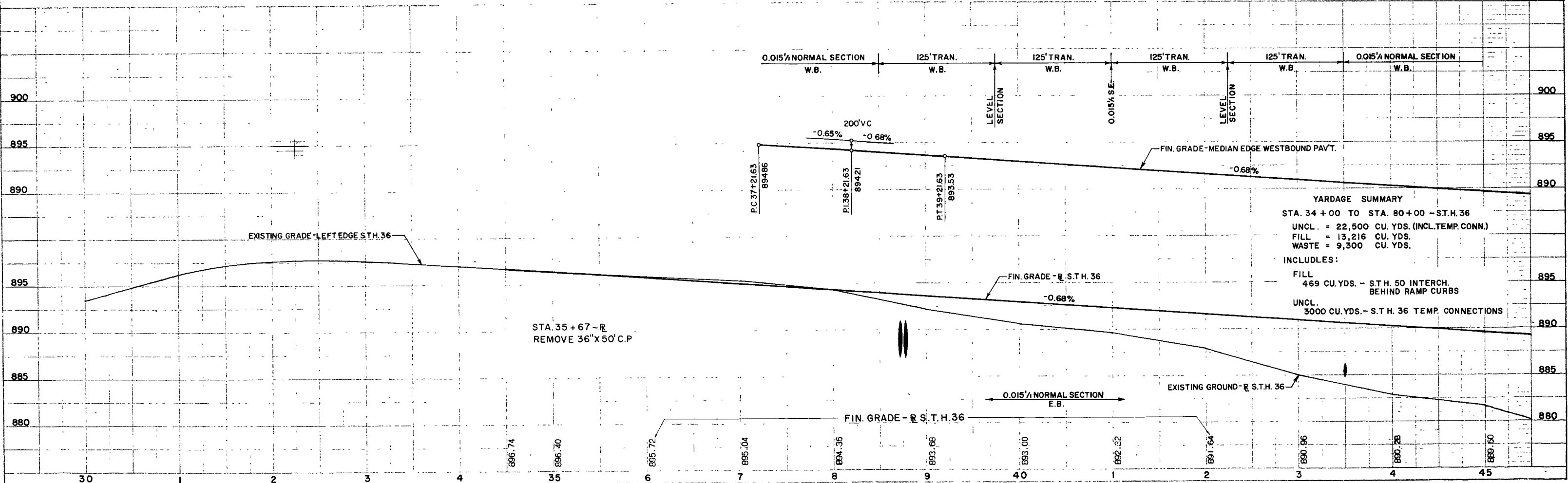


1085-1115

B. P. R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	24	41

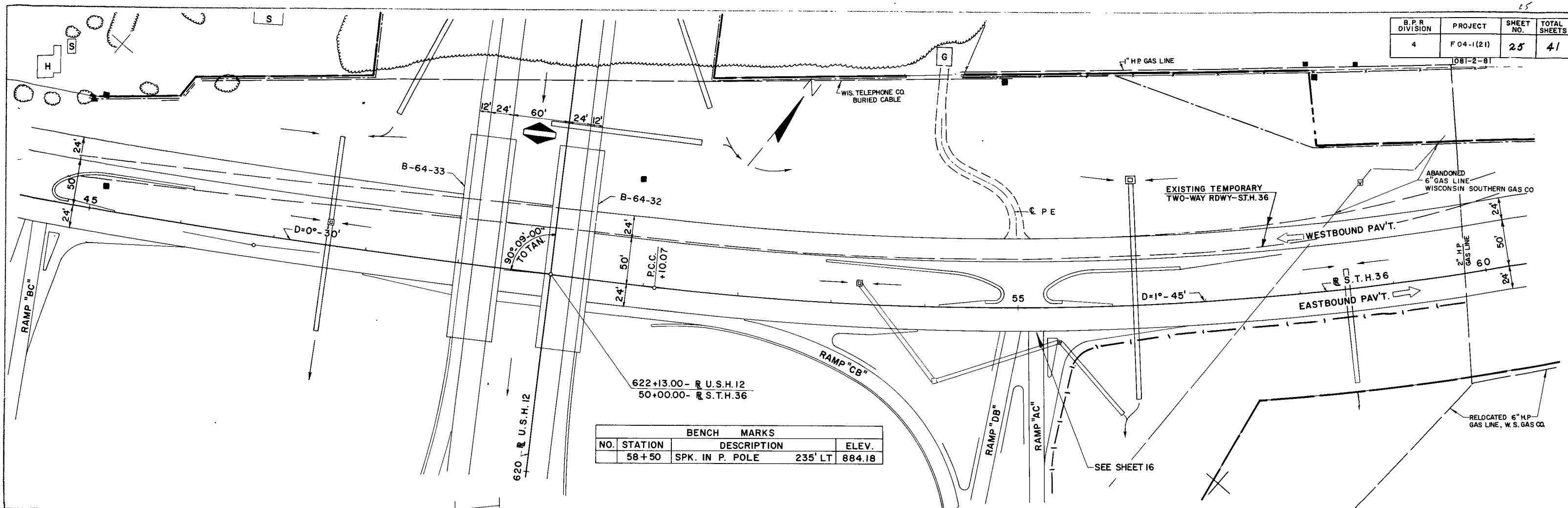


BENCH MARKS			
No.	STATION	DESCRIPTION	ELEV.
27A	623 + 40	R.R. SPK. IN P. POLE - 495' LT.	888.89
27B	35 + 14	SPK IN P. POLE 50' RT.	897.58
27C	37 + 95	" " " " 60' "	893.89
27D	29 + 25	" " " " 30' "	891.59

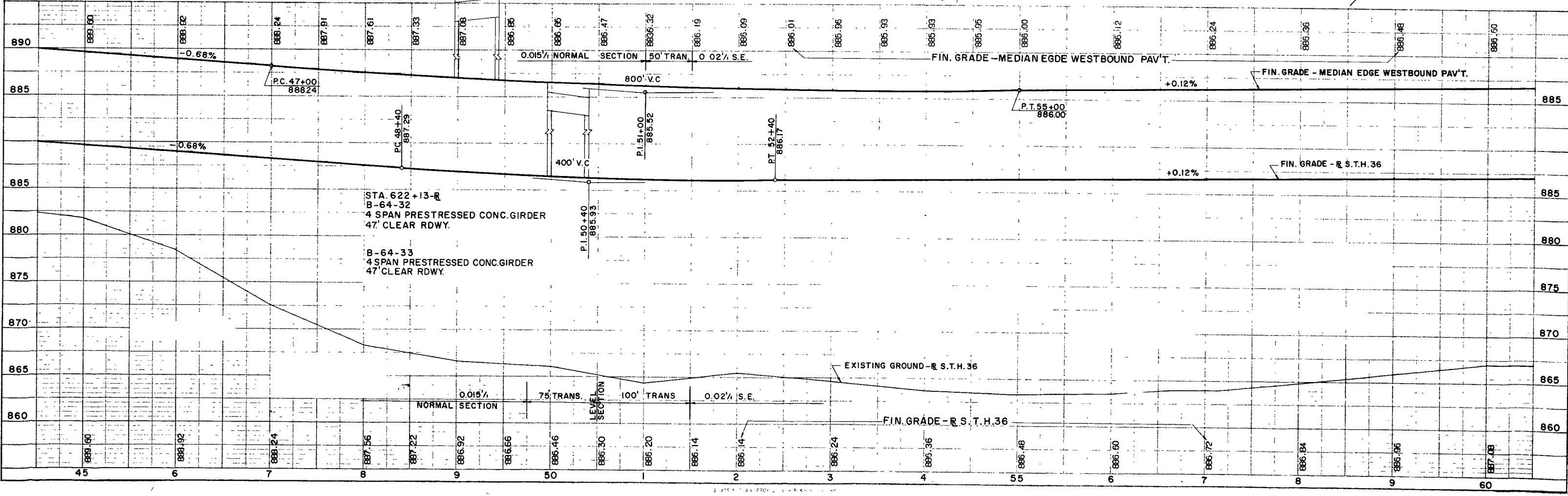


YARDAGE SUMMARY	
STA. 34 + 00 TO STA. 80 + 00 - S.T.H. 36	
UNCL.	22,500 CU. YDS. (INCL. TEMP. CONN.)
FILL	13,216 CU. YDS.
WASTE	9,300 CU. YDS.
INCLUDES:	
FILL	469 CU. YDS. - S.T.H. 50 INTERCH. BEHIND RAMP CURBS
UNCL.	3000 CU. YDS. - S.T.H. 36 TEMP. CONNECTIONS

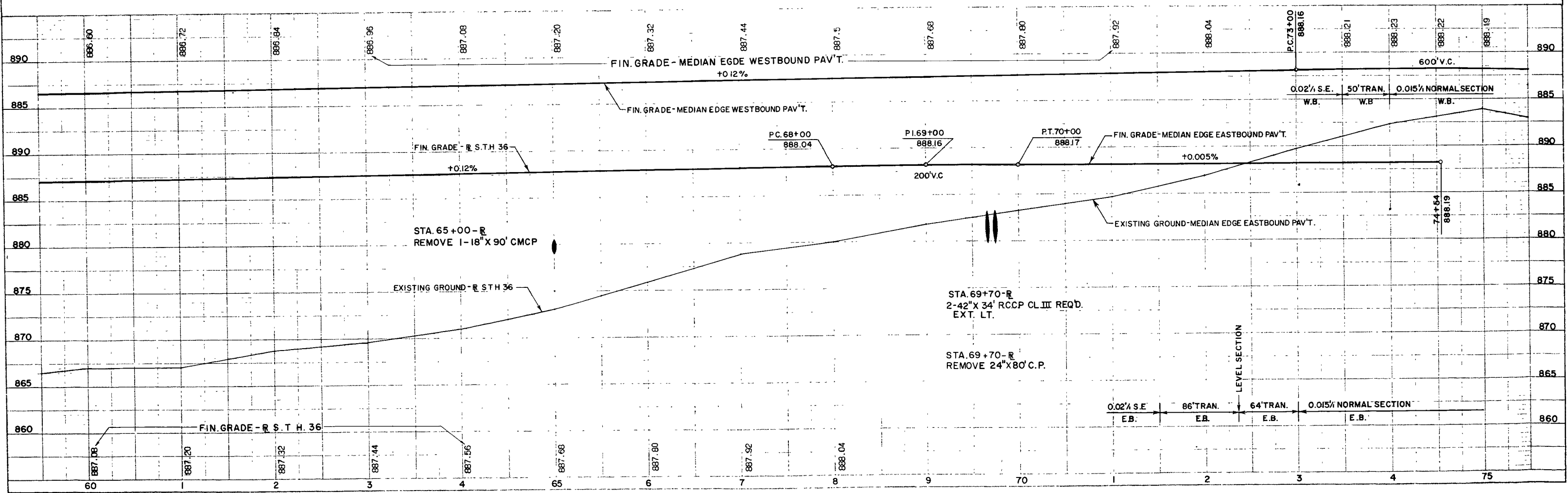
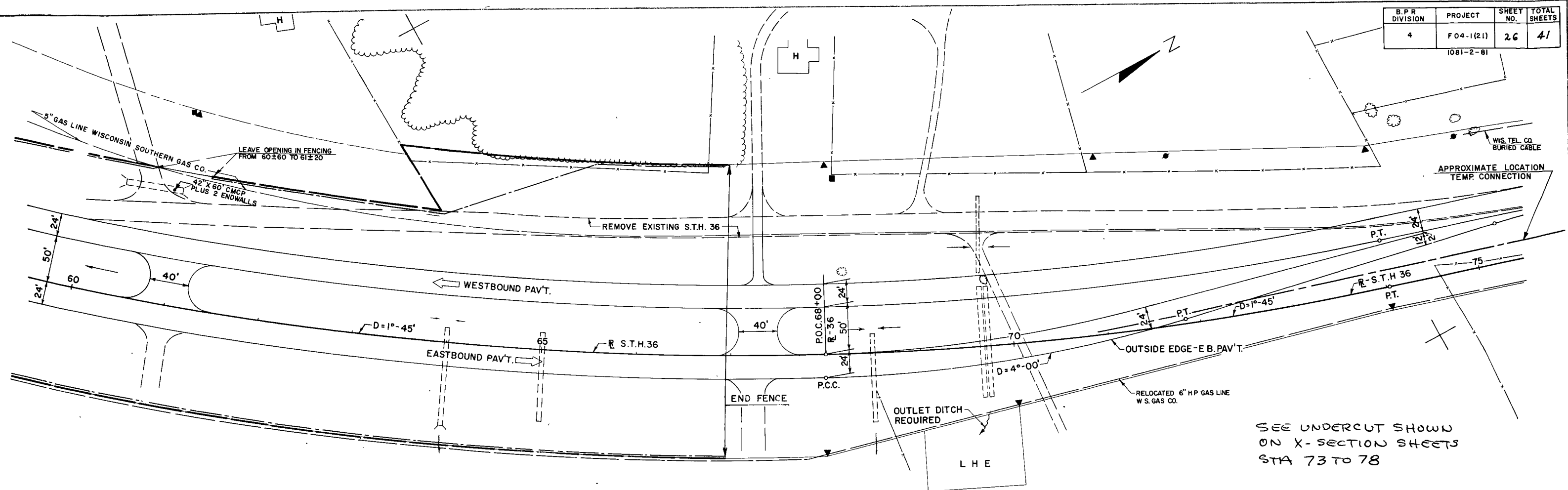
B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F 04-1(21)	25	41



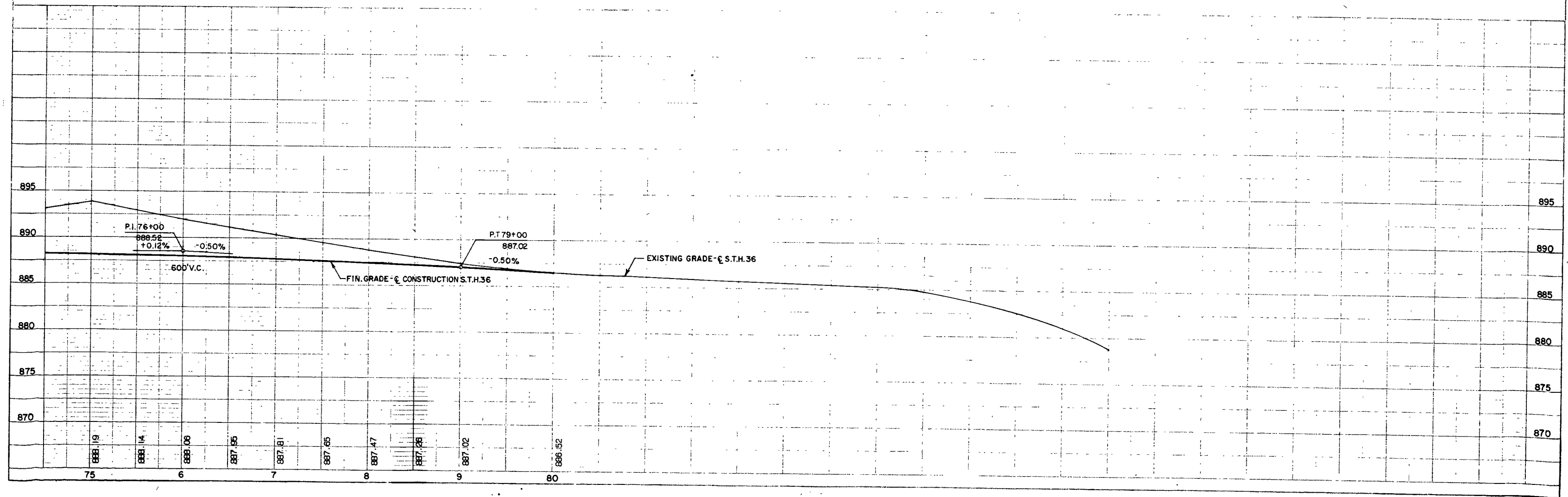
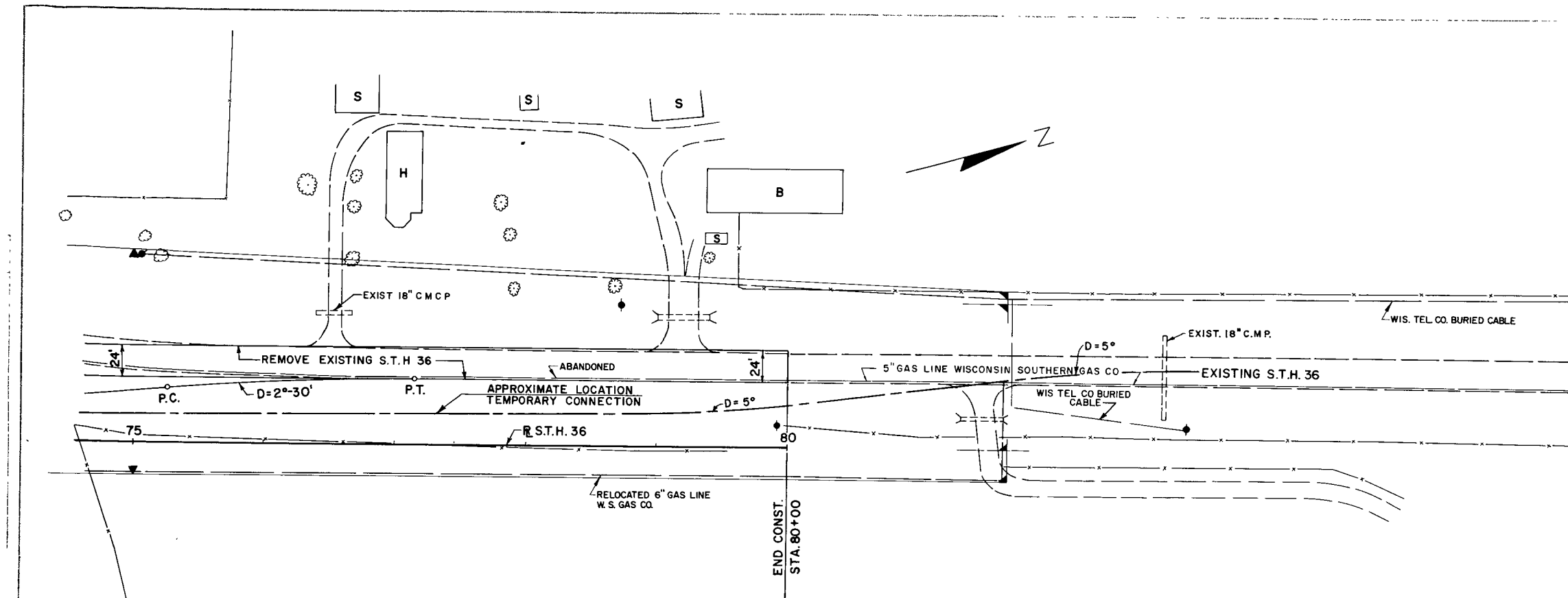
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
58+50		SPK. IN P. POLE 235' LT	884.18

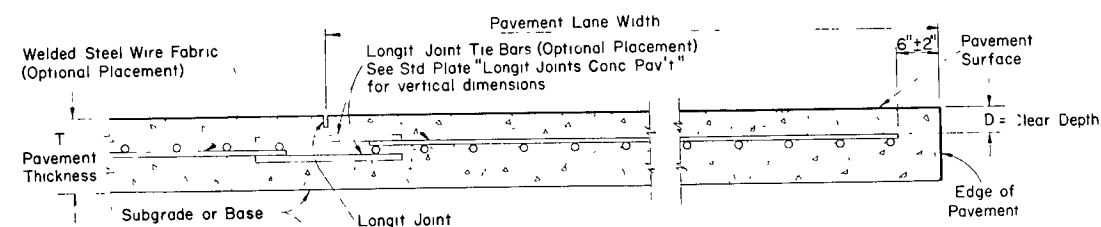
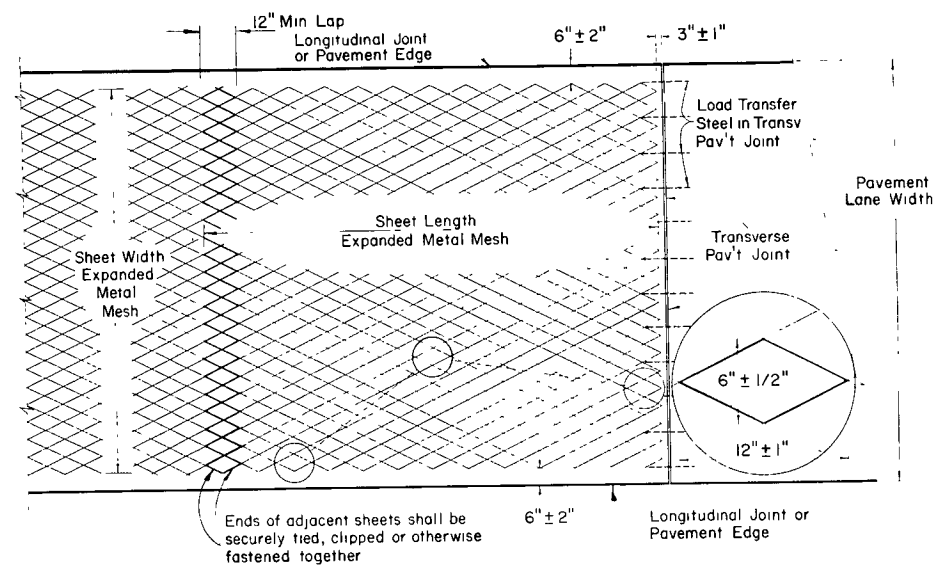
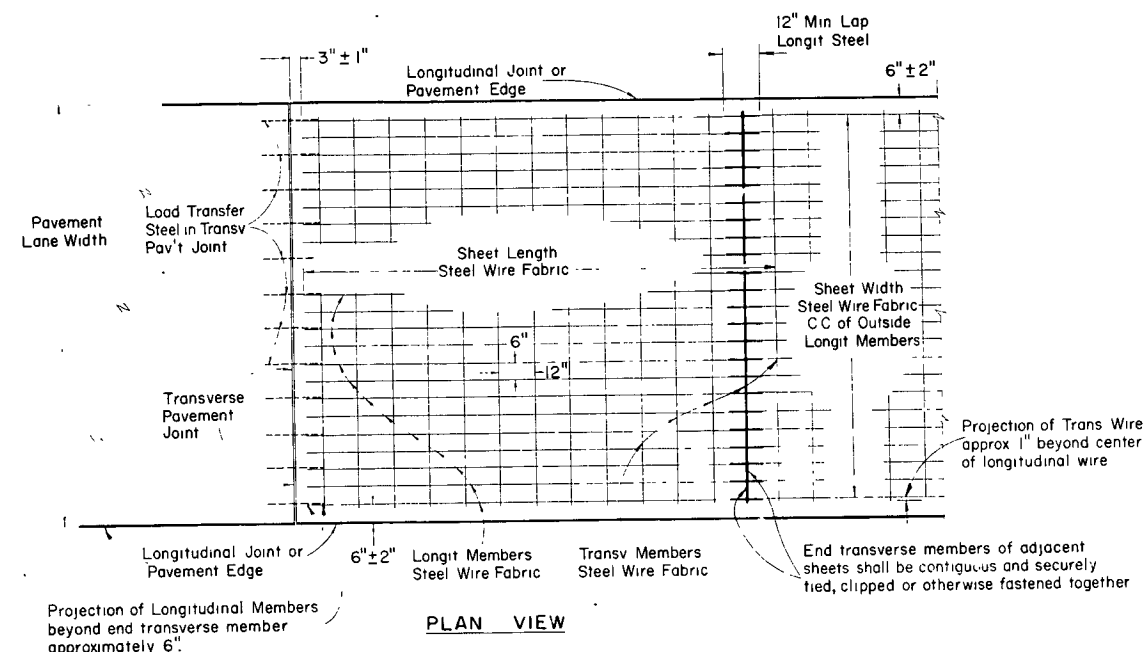


B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	26	41
1081-2-81			

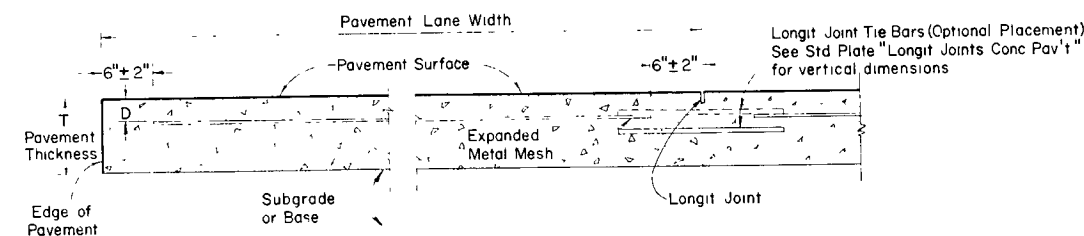


B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F 04-1(21)	27	41
1081-2-81			





WELDED STEEL WIRE FABRIC



EXPANDED METAL MESH

Pavement Thickness	"D"
8"	2'-4"
9"	2'-4 1/2"
10"	2'-5"

GENERAL NOTES-

Details of Construction and Materials not shown hereon shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions

WELDED STEEL WIRE FABRIC

Manufacturer's No 612-04
Approx Weight per 100 Sq Ft = 69.0 lbs
Longitudinal Steel - Gage No 0-0.3065" D at 6" C.C
Transverse Steel - Gage No 4-0.2253" D at 12" C.C

Welded Steel Wire Fabric shall conform to the requirements of the Standard Specifications for Welded Steel Wire Fabric for Concrete Reinforcement A.A.S.H.O. Designation M55
Side lap of adjacent sheets approximate 6"

EXPANDED METAL MESH

Weight per 100 Sq Ft = 76.0 lbs min
Expanded Metal Mesh shall be manufactured from open hearth steel, having a phosphorus content of not more than 0.05 percent, and a yield point of not less than 55,000 p.s.i. The steel shall be sufficiently ductile to permit any strand to be bent through an angle of 180 degrees over one diam. without fracture
The diamond shaped mesh shall be fabricated by a cold drawn process which will cut and draw the steel forming uniform dimensioned strands conforming to shape and weight as shown elsewhere hereon
Side lap of adjacent sheets approximate 6"

SHIPPING REQUIREMENTS

Welded Steel Wire Fabric or Expanded Metal Mesh Concrete Pavement Reinforcement shall be shipped to the job site in flat sheets



CONCRETE PAVEMENT
REINFORCEMENT

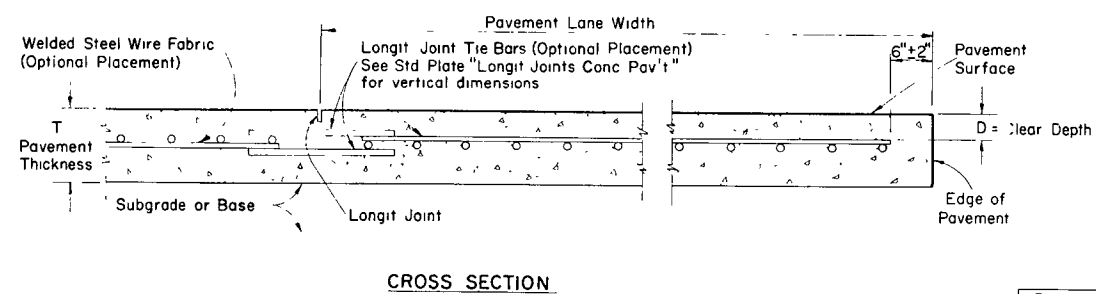
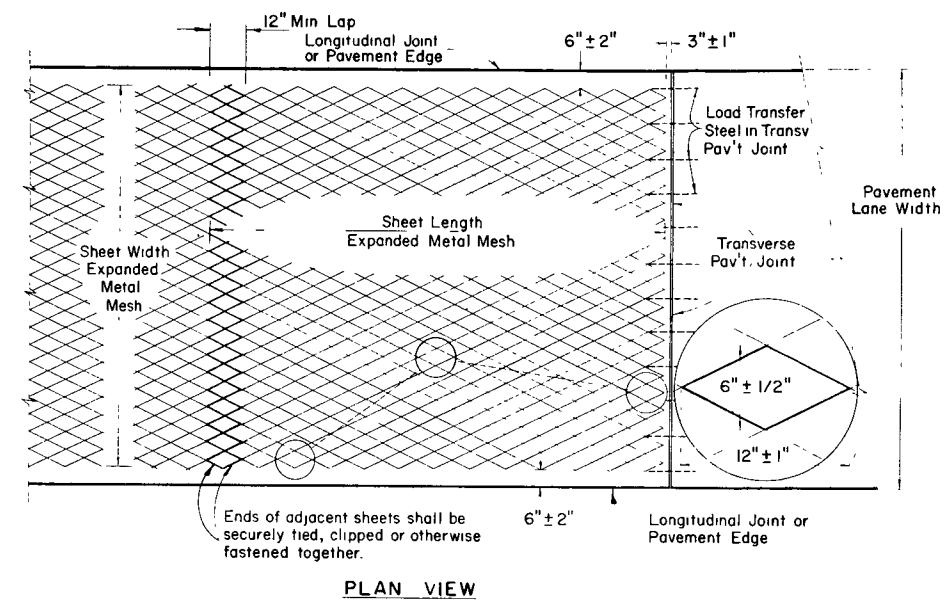
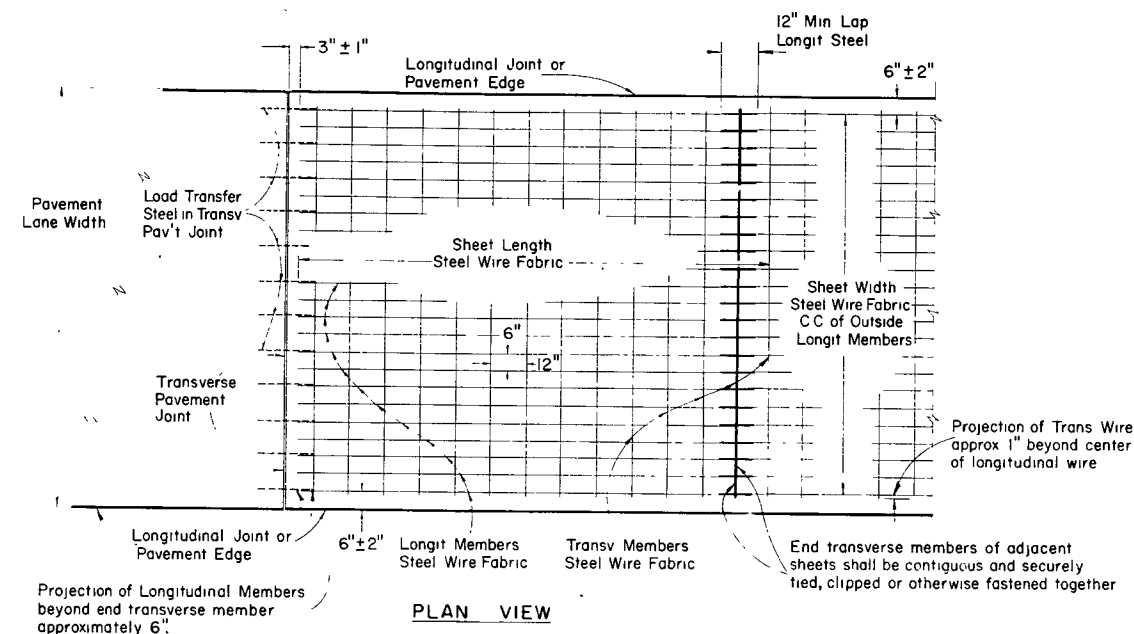
STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

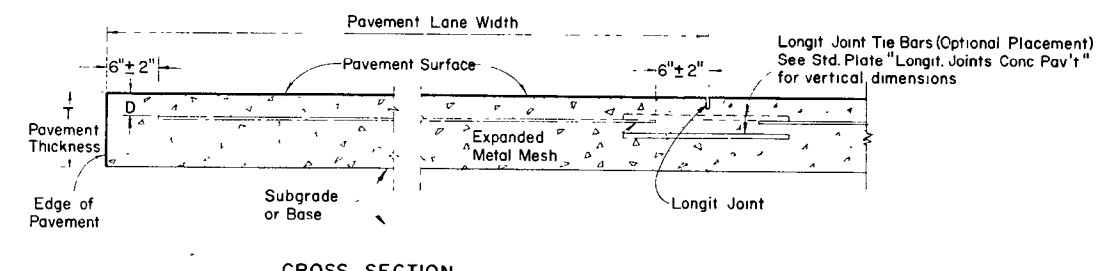
DATE 2/2/66 CHIEF DESIGN ENGINEER

PROVED DATE 2/2/66 STATE HIGHWAY ENGINEER

PLATE NO 2112



WELDED STEEL WIRE FABRIC



EXPANDED METAL MESH

Pavement Thickness	"D"
8"	2'-4"
9"	2'-4 1/2"
10"	2'-5"

GENERAL NOTES-

Details of Construction and Materials not shown hereon shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions

WELDED STEEL WIRE FABRIC

Manufacturer's No 612-04
Approx. Weight per 100 Sq Ft = 69.0 lbs.
Longitudinal Steel - Gage No. 0 = 0.3065" D at 6" C.C.
Transverse Steel - Gage No 4 = 0.2253" D at 12" C.C.

Welded Steel Wire Fabric shall conform to the requirements of the Standard Specifications for Welded Steel Wire Fabric for Concrete Reinforcement A A S.H.O. Designation M55
Side lap of adjacent sheets approximate 6"

EXPANDED METAL MESH

Weight per 100 Sq Ft = 76.0 lbs min
Expanded Metal Mesh shall be manufactured from open hearth steel, having a phosphorus content of not more than 0.05 percent, and a yield point of not less than 55,000 p.s.i. The steel shall be sufficiently ductile to permit any strand to be bent through an angle of 180 degrees over one diam. without fracture
The diamond shaped mesh shall be fabricated by a cold drawn process which will cut and draw the steel forming uniform dimensioned strands conforming to shape and weight as shown elsewhere hereon
Side lap of adjacent sheets approximate 6"

SHIPPING REQUIREMENTS

Welded Steel Wire Fabric or Expanded Metal Mesh Concrete Pavement Reinforcement shall be shipped to the job site in flat sheets

CONCRETE PAVEMENT
REINFORCEMENT

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

DATE 2/2/66

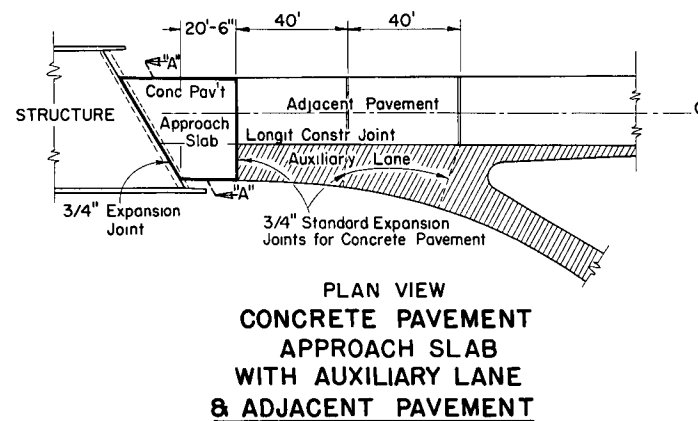
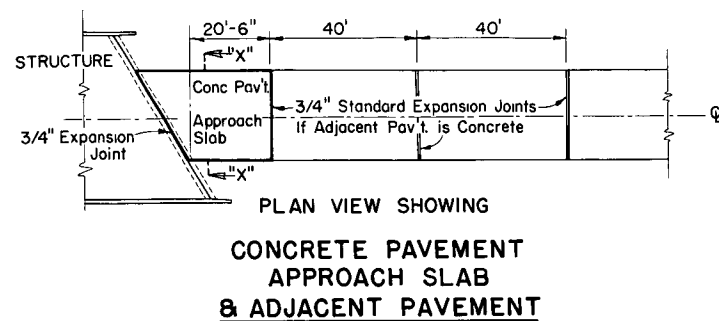
CHIEF DESIGN ENGINEER

APPROVED
DATE 2/2/66

STATE HIGHWAY ENGINEER

PLATE NO 2112

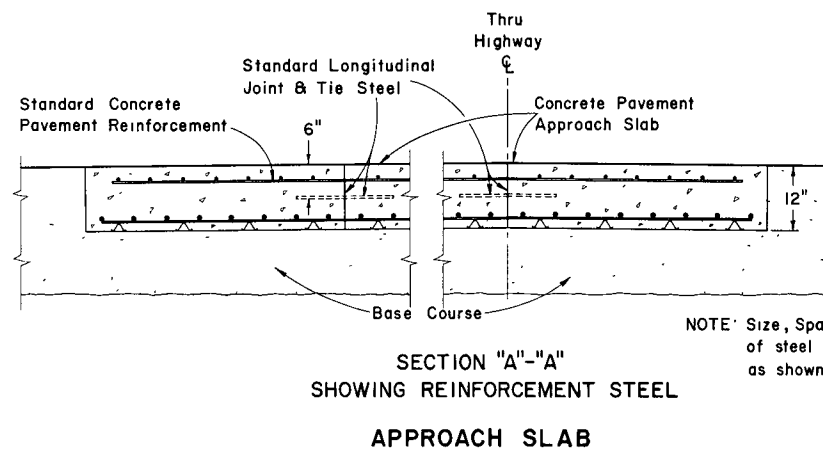
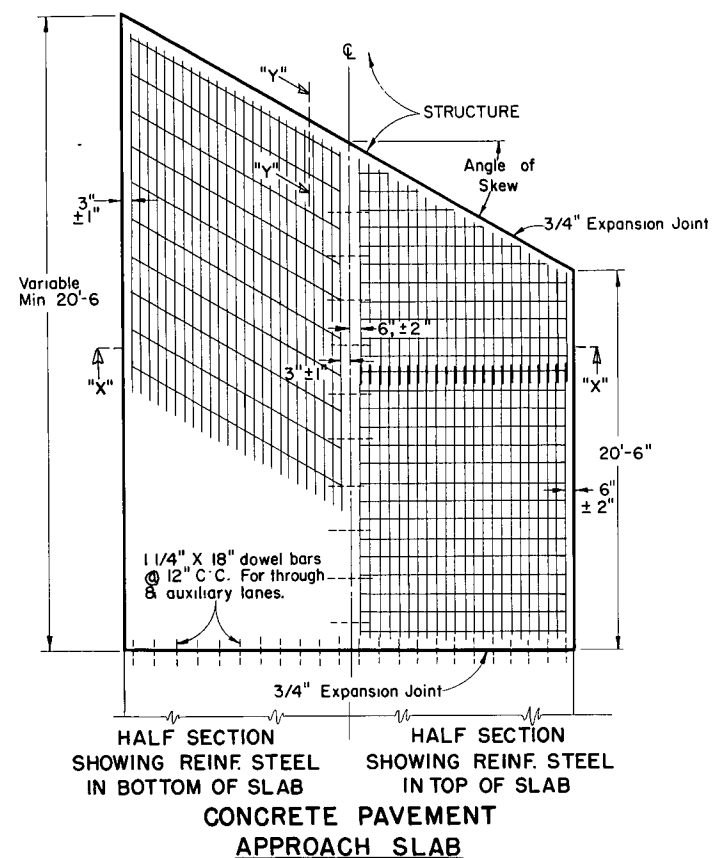
28-1-41



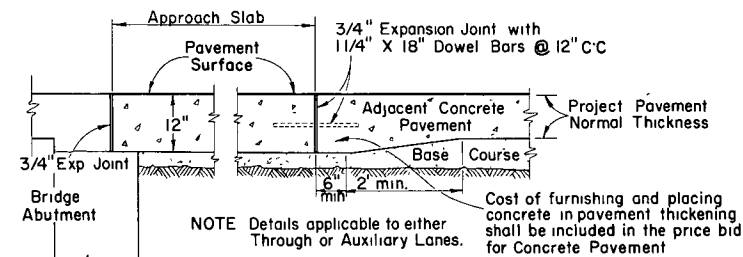
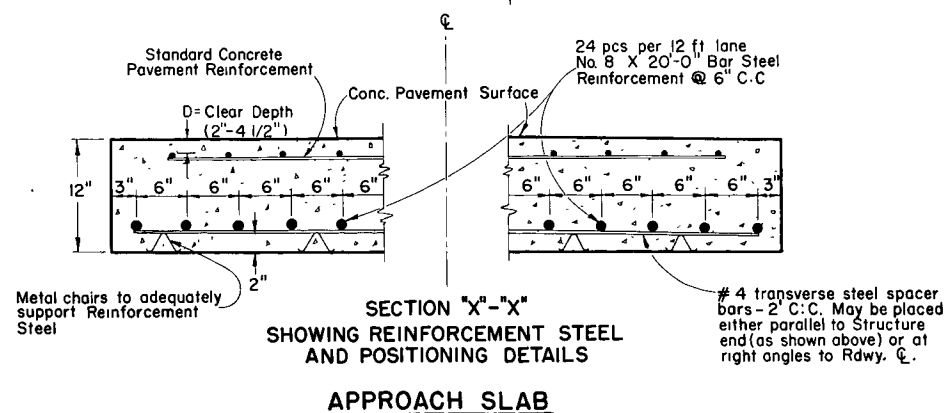
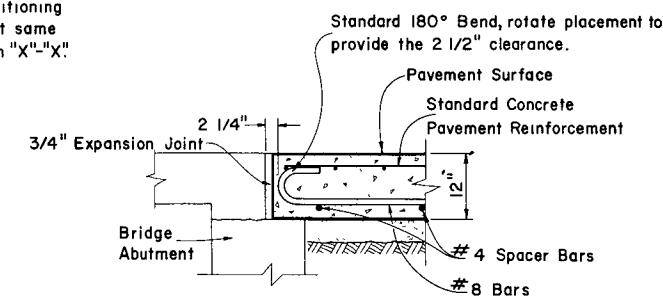
INFORMATION FOR BIDDING PURPOSES

ESTIMATE QUANTITIES FOR VARIOUS SKEWED
STRUCTURE APPROACHES (ONE END ONLY)
24 FOOT WIDTH PAVEMENT

Angle of Skew	Concrete Pavement Sq. Yards	Concrete Pavement Cu. Yards	Concrete Pavement Reinforc't. Sq. Yards	Bar Steel 48 Pcs. No. 8 x 20'-0" Pounds	Bar Steel Spacer Bars No. 4 Pounds
0°	54.7	18.2	54.7	2,701	156
15°	63.2	21.1	63.2	"	162
30°	73.2	24.4	73.2	"	180
45°	86.7	28.9	86.7	"	220
60°	110.1	36.7	110.1	"	313



NOTE: Size, Spacing & Positioning of steel in pavement same as shown for section "X"-X"



NOTE: Details applicable to either Through or Auxiliary Lanes. Cost of furnishing and placing concrete in pavement thickening shall be included in the price bid for Concrete Pavement

STRUCTURE APPROACH AND CONCRETE PAVEMENT APPROACH SLAB

State of Wisconsin
Department of Transportation
Division of Highways

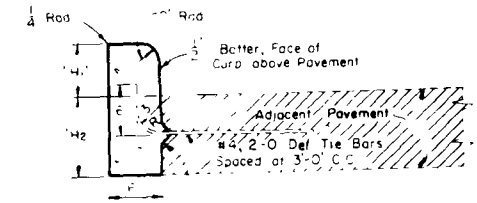
RECOMMENDED FOR APPROVAL
DATE 1/25/68
DESIGN ENGINEER

APPROVED
DATE 3/8/68
STATE HIGHWAY ENGINEER

Plate No. 2-31.5

6

282-41



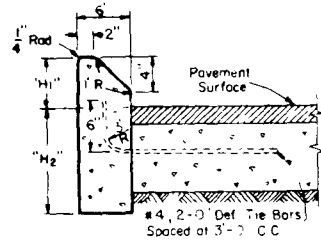
Tie Bar recess positioned in reverse when Concrete Curb is constructed first.

"H" = 9" Max. and 4" Min. and shall be 6" unless otherwise shown on the plans.

"H₂" = Same as adjacent pavement thickness for rigid pavement and 12" for other than rigid pavement (Tie Bars Omitted).

TYPE "A" (Including Tie Bars) TYPE "D" (Excluding Tie Bars)

CONCRETE CURB

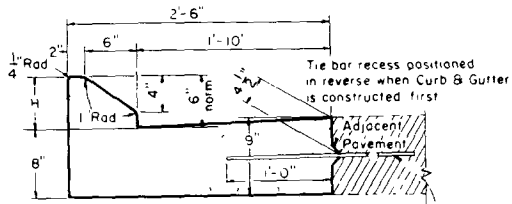


"H" = 9" Max. and 4" Min. and shall be 6" unless otherwise shown on the plans.

"H₂" = Same as adjacent pavement thickness for rigid pavement and 12" for other than rigid pavement (Tie Bars Omitted).

TYPE "G" (Including Tie Bars) TYPE "J" (Excluding Tie Bars)

CONCRETE CURB (Mountable Type)



"H" = 9" max. and 4" min. & shall be 6" unless otherwise shown on the plans.

#4, 2-0 Def. Tie Bars or alternate Bolt Type install may be used, spaced at 3'-0" C.C.

TYPE "G" (Including Tie Bars) TYPE "J" (Excluding Tie Bars)

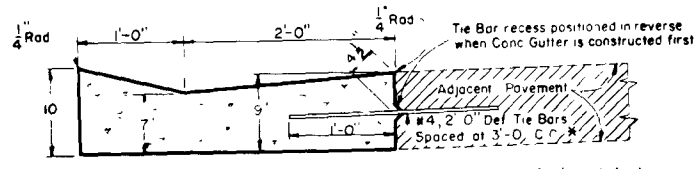
CONCRETE CURB AND GUTTER (Mountable Type)

GENERAL NOTES

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

JOINTS -

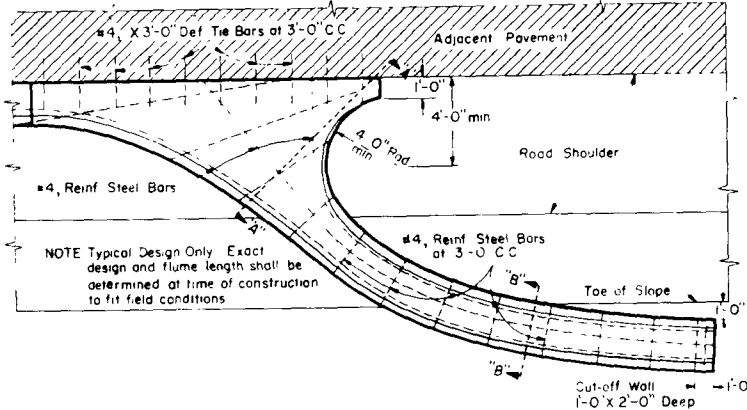
Joints shall not be sealed in concrete curb, concrete gutter, concrete curb and gutter, or concrete surface drains.



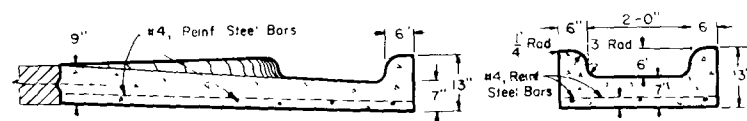
* Alternate Tie Bars or Bolt Type installations may be used as shown for Longitudinal Joints.

TYPE "A" (Including Tie Bars) TYPE "D" (Excluding Tie Bars)

CONCRETE GUTTER



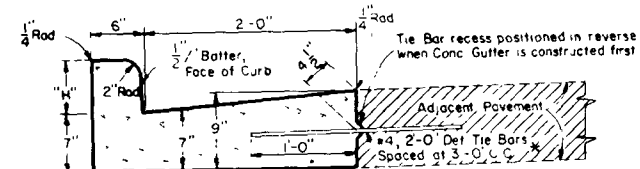
NOTE: Typical Design Only. Exact design and flume length shall be determined at time of construction to fit field conditions.



SECTION "A-A"

SECTION "B-B"

CONCRETE INLET OR DISCHARGE FOR CURB AND GUTTER SURFACE DRAIN



"H" = 9" Max., 3 1/2" Min. and shall be 6" unless otherwise shown on the plans.

* Alternate Tie Bars or Bolt Type installations may be used as shown for Longitudinal Joints.

TYPE "A" (Including Tie Bars) TYPE "D" (Excluding Tie Bars)

CONCRETE CURB AND GUTTER (Barrier Type)

CONCRETE CURB, CONCRETE GUTTER
CONCRETE CURB AND GUTTER AND
CONCRETE SURFACE DRAINS

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

DATE 2-5-63

APPROVED

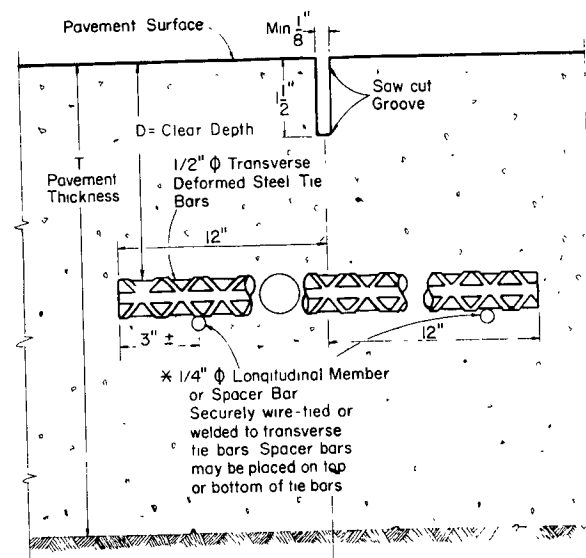
DATE 2/4/63

J. S. Pelt ENGINEER OF DESIGN

E. C. Rutledge STATE HIGHWAY ENGINEER

PLATE NO. 3-1.1.7

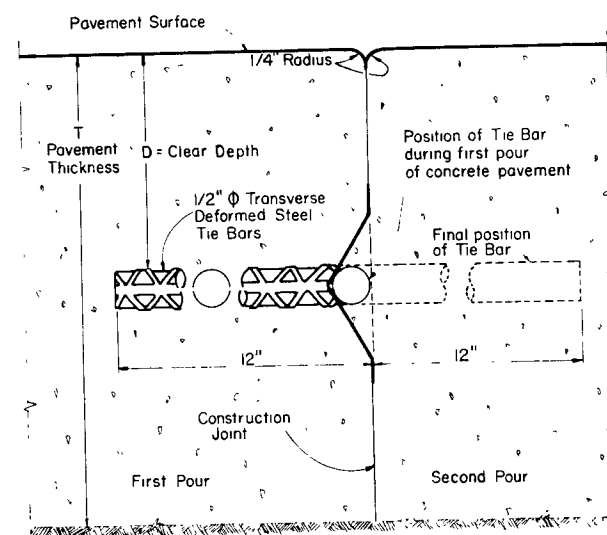
28-3-41



SAWED JOINT

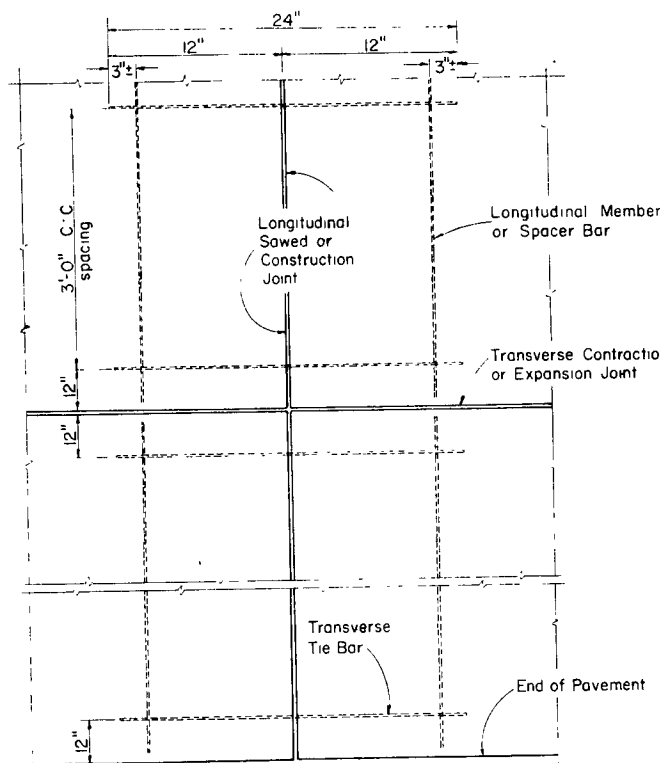
ELEVATION, Showing Tie Bars and Positioning Details

Pavement Thickness	"D"
8"	2'-4 3/4"
9"	2'-5 1/2"
10"	2'-5 3/4"



CONSTRUCTION JOINT

ELEVATION, Showing Tie Bars and Positioning Details



PLAN VIEW, Showing Tie Bars and Location Details

GENERAL NOTES

Details of Construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions

ALTERNATE DESIGNS-

Alternate designs of Bolt Type joint installations may be used upon written approval of the engineer.

SEALING JOINTS-

Longitudinal Joints shall not be sealed

* TIE BARS

Tie bars shall be installed as shown (assembled ladder type pattern), or the longitudinal member spacer bar may be omitted if the transverse tie bars can be accurately placed and firmly held during the placing and setting of concrete by devices or methods approved by the engineer, or if mechanical means of placing the tie bars in the plastic concrete are approved by the engineer

Devices may be omitted on the longitudinal construction joint type when in the opinion of the engineer the tie bars will be retained in their proper designated position

LONGITUDINAL JOINTS CONCRETE PAVEMENT

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

DATE 2/3/66 *EJ Bork* CHIEF DESIGN ENGINEER

APPROVED DATE 2/3/66 *W. J. ...* STATE HIGHWAY ENGINEER

PLATE NO. 4-4.4.8

GENERAL NOTES 28.4-41

Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions. Steel installing pins of sufficient number, length, and rigidity shall be placed so as to prevent movement of the joint assembly during construction operations.

Details shown hereon make provision for a minimum of structural adequacy and stability to satisfy Standard Specifications requirements.

ALTERNATE DESIGNS

Alternate designs for load transfer dowels for contraction and expansion joints and appurtenances other than shown hereon may be used upon written approval of the Engineer.

CONTRACTION JOINTS

Contraction joints shall be installed at 80' ($\pm 2'$) spacing from adjacent contraction or expansion joints, except that lesser spacings ranging to a minimum of 40' shall be used.

1. At locations or spacing indicated on the plans.
2. As extensions of transverse joints or cracks in abutting pavement lanes.
3. At locations designated by the Engineer where there are manholes or other fixtures in the pavement.

CONSTRUCTION JOINTS

Deformed bars shall be spaced at 12" C:C and 6" from each edge of pavement.

Deformed bars may be inserted after the concrete has been poured.

Construction joints shall be installed as necessary, except that a construction joint shall be not less than 10 feet from the nearest contraction or expansion joint.

EXPANSION JOINTS

Expansion joints are required only at structure approaches and/or where shown on the plans. The locations may be shifted to avoid stationary fixtures in the pavement.

Expansion joint filler shall be secured with sufficient number of steel pins to preclude any horizontal movement during the placing of concrete.

Metal dowel socket (CAP), 1 1/16" or 1 5/16" Dia., 24 gauge, closed on one end, shall be placed on the sawed end of each dowel bar as required for proper pavement expansion.

SEALING JOINTS

Joints shall be sealed as shown.

DOWEL BARS

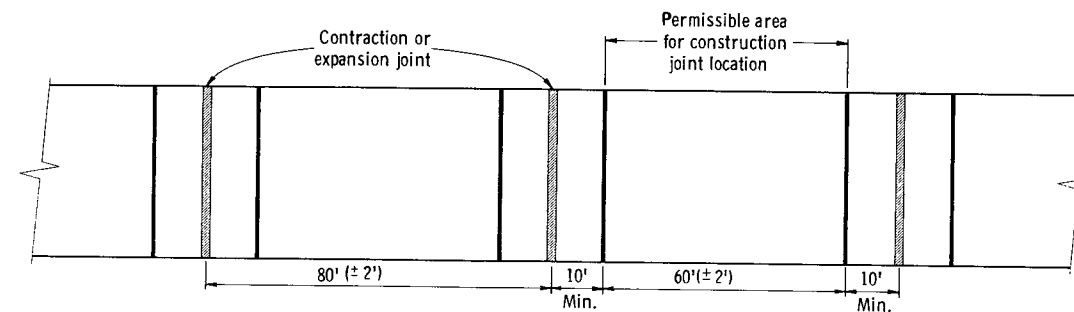
Dowel bars shall be spaced at 12" C:C and 6" from each edge of pavement.

One end of each dowel bar shall be sawed and free of all burrs or protruding edges.

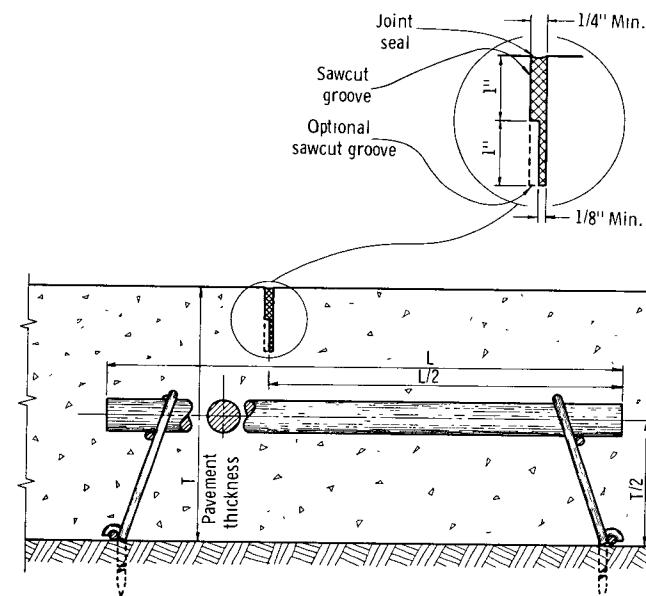
Dowel bars shall be painted with a rust inhibitive paint and coated for at least 2/3 their length with liquid asphalt MC 70 or MC 250, or other approved lubricant, to prevent bonding with concrete. The asphalt coating shall be applied to the sawed and capped end of the dowel bar and shall be sufficiently dry so that it will not be removed by the handling and placing of the dowel assembly.

Dowel bar dimensions:

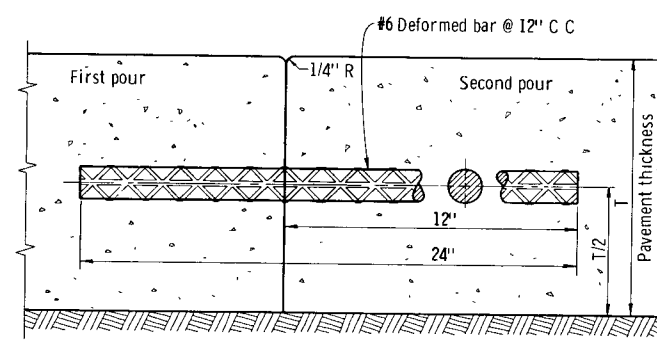
- For 7" P.C. Pavement = 1" ϕ x 18"
- For 8" P.C. Pavement = 1" ϕ x 18"
- For 9" P.C. Pavement = 1 1/4" ϕ x 18"
- For 10" P.C. Pavement = 1 1/4" ϕ x 18"



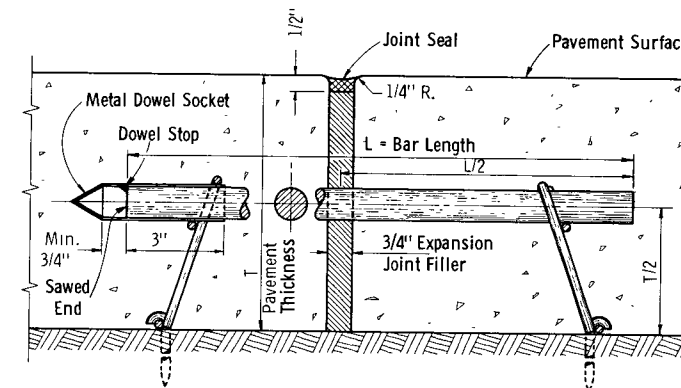
SCHEMATIC SHOWING JOINT LOCATIONS



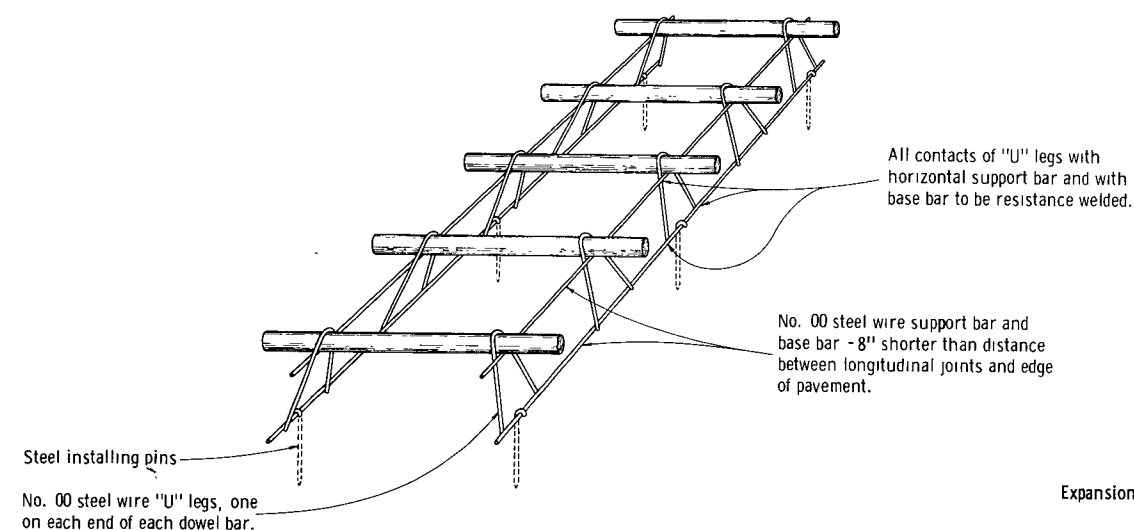
CONTRACTION JOINT



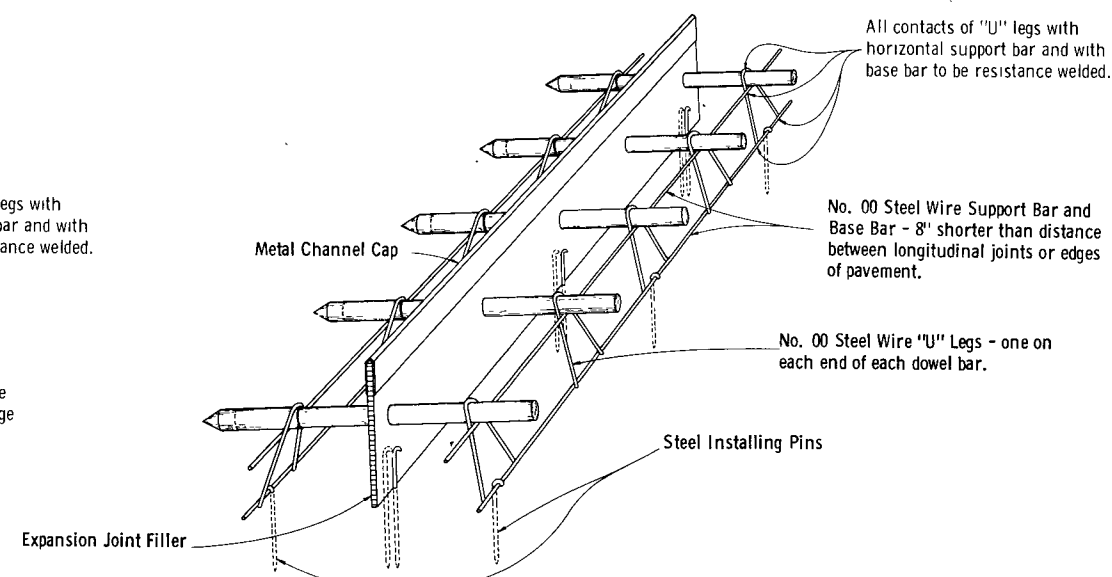
CONSTRUCTION JOINT



EXPANSION JOINT



INSTALLING DEVICE FOR LOAD TRANSFER DOWELS FOR CONTRACTION JOINTS



INSTALLING DEVICE FOR LOAD TRANSFER DOWELS AND EXPANSION JOINT ASSEMBLY

TRANSVERSE JOINTS FOR CONCRETE PAVEMENT

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL

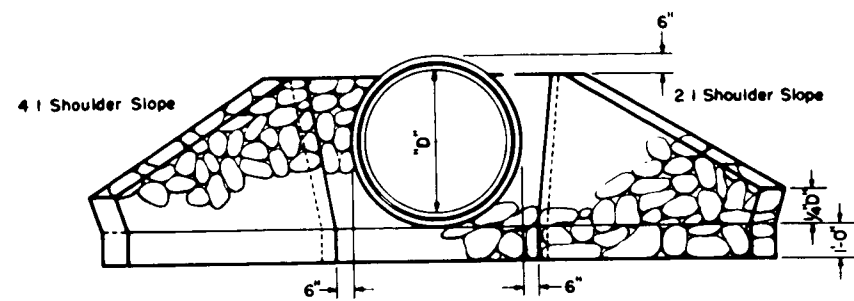
5/24/68

APPROVED

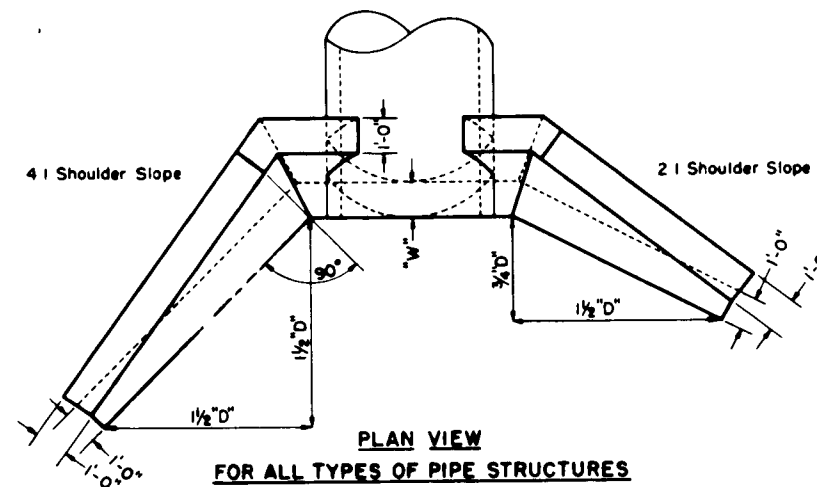
5/27/68

E. J. Ryski
CHIEF DESIGN ENGINEER

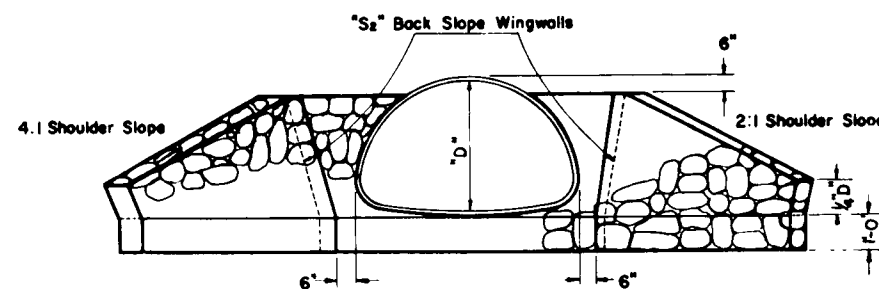
H. J. Sauer
STATE HIGHWAY ENGINEER



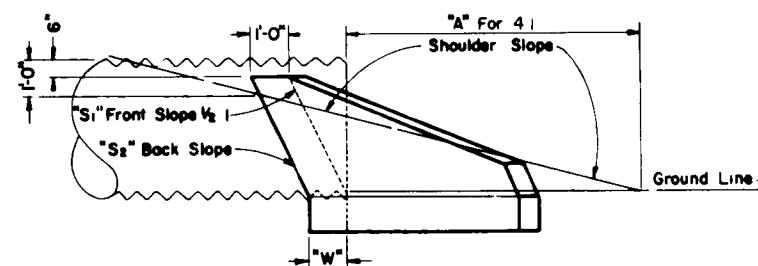
END ELEVATION
SHOWING CONCRETE CIRCULAR PIPE INCL. CATTLE PASS



PLAN VIEW
FOR ALL TYPES OF PIPE STRUCTURES



END ELEVATION
SHOWING CORRUGATED METAL PIPE ARCH



SIDE ELEVATION

28-5-41

Size of Pipe	Type of Pipe	Cu Yds Mortar or Rubble Masonry or Riprap per Endwall		"A" (Feet)		"B" (Feet)		Front Slope "S1"	Back Slope "S2"	Width of Footing of "W" (Feet)
		4:1 Slope	2:1 Slope	4:1 Slope	2:1 Slope	4:1 Slope	2:1 Slope			
24"	RCCP	1.2	1.0	3.4	0.8	1/2	1	1/2	1	1.0
	CMCP	1.0	0.8	2.8	0.6	"	"	"	"	"
30"	RCCP	1.5	1.3	5.1	1.5	"	"	"	"	"
	CMCP	1.3	1.0	4.6	1.3	"	"	"	"	"
36"	RCCP	2.0	1.6	6.9	2.3	"	"	"	"	"
	CMCP	1.7	1.3	6.3	2.1	"	"	"	"	"
42"	RCCP	2.6	2.1	8.9	3.1	"	"	"	"	"
	CMCP	2.2	1.7	8.1	2.9	"	"	"	"	"
48"	RCCP	3.2	2.6	10.7	3.9	"	"	"	"	"
	CMCP	2.8	2.2	9.8	3.6	"	"	"	"	"
60"	RCCP	8.4	6.9	14.5	5.5	"	"	1/4:1	"	2.38
	CMCP	6.9	5.9	13.3	5.2	"	"	"	"	2.20
72"	RCCP	12.4	9.9	18.3	7.1	"	"	"	"	2.68
	CMCP	10.0	8.0	16.8	6.2	"	"	"	"	2.40

PIPE ARCH

29"x18"	CMCP	1.0	0.8	1.1	0.3	1/2	1	1/2	1	1.0
36"x22"	"	1.3	1.0	2.2	0.5	"	"	"	"	"
43"x27"	"	1.7	1.2	3.7	1.0	"	"	"	"	"
50"x31"	"	1.9	1.4	4.9	1.5	"	"	"	"	"
58"x36"	"	2.1	1.7	6.3	2.1	"	"	"	"	"
65"x40"	"	2.5	2.0	7.5	2.6	"	"	"	"	"
72"x44"	"	2.9	2.4	8.6	3.1	"	"	"	"	"

CATTLE PASS

72"	ALTERNATE	12.4	9.9	18.3	7.1	"	"	"	"	2.68
-----	-----------	------	-----	------	-----	---	---	---	---	------

GENERAL NOTES

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

CONCRETE MASONRY SUBSTITUTE

All items shown herein may be constructed of Class "A" Concrete in which case all sizes and dimensions shown shall obtain. Concrete masonry substitute work shall conform to the pertinent requirements of the Standard Specifications.

MORTAR RUBBLE MASONRY OR RIPRAP FOR CULVERT & CATTLE PASS ENDWALLS

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

DATE 2-5-63

APPROVED

DATE 2/6/63

J. J. Pitt
ENGINEER OF DESIGN

P. L. Rostetter
STATE HIGHWAY ENGINEER

PLATE NO. 6-2.4.3

287-41

GENERAL NOTES

The contractor shall construct, place and maintain barricades as shown on the drawing and as required by the Standard Specifications or applicable Special Provisions.

CLASS 1 BARRICADE:

Class 1 Barricades shall be of variable length as indicated, and long barricades shall be assembled from these units. The Class 1 Barricade is the type normally required for major operations, where the barricade will remain in place for extended periods. Class 1 Barricades shall be used at points where the road is closed to traffic. Gates or movable sections of a barricade shall be provided when necessary, for access of equipment or other authorized vehicles.

Wing Barricades are Class 1 Barricades erected on the shoulder on one or both sides of the pavement to give Traffic the perceptive effect of a narrowing or restricted roadway. The ends closest to traffic of all three members of a wing barricade shall be in a vertical line. If used in a series, they should start at the outer edge of the shoulder and be brought progressively closer to the pavement. Wing Barricades may be used as a mounting for the advance warning or guide signs or for flashers. When used on two-way roadways, the back of the wing barricade shall be painted reflectorized white.

CLASS 11 BARRICADE:

Class 11 Barricades may be used only where the hazard to traffic is relatively small, and for the more or less continuous delimiting of a restricted roadway, or for temporary daytime use.

MATERIAL & FABRICATION:

Lumber shall be of a grade structurally sound and sufficiently rigid to satisfactorily support and maintain the purpose and intent of a barricade facility.

Metal shall be sufficiently rigid to satisfactorily support and maintain the purpose and intent of a barricade facility. The fabrication of the barricade shall be in accord with good pertinent woodworking and metalworking practices.

All lumber or timber dimensions stated are nominal.

PAINTING:

All barricades shall be painted in alternate 4" or 6" black and white stripes at a 45° angle. The width of stripe shall be consistent for each complete barricade installation. Black stripes shall be painted with weather resistant and durable black paint. White stripes shall be primed, followed by two coats of white reflectorized paint or reflective wide angle sheeting.

DIRECTION OF DIAGONAL STRIPES:

Where a barricade extends entirely across the roadway with no vehicle access provision, the stripes shall slope downward toward the highway centerline.

Where vehicle access is permitted, the stripes shall slope downward in the direction toward which vehicles must turn in detouring.

Where both right and left turns are provided for, the stripes shall slope downward in both directions from the center.

The stripes on wing barricades shall point downward toward the roadway.

LIGHTING:

Lighting devices for barricades shall conform to the requirements of the Standard Specifications.

MEASUREMENT & PAYMENT:

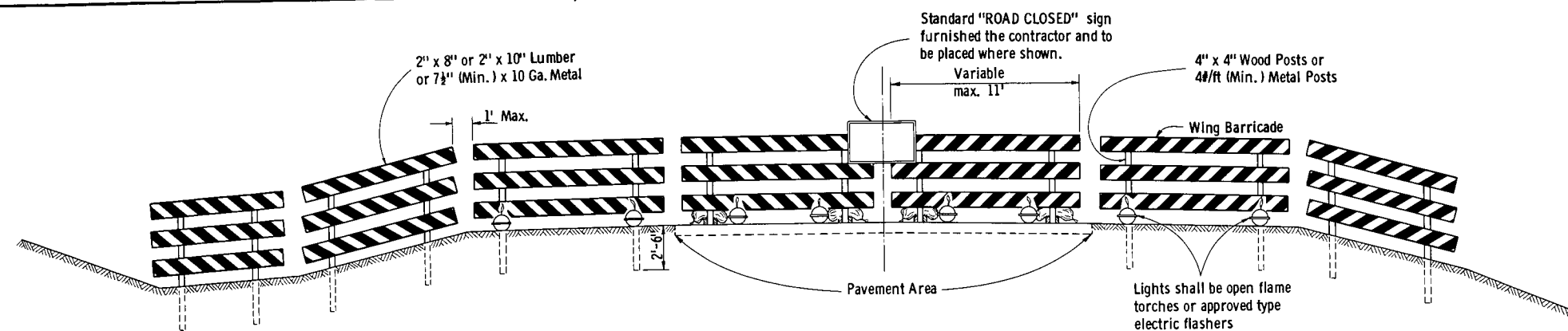
All barricades, unless otherwise provided for in the plans and/or special provisions shall be furnished, placed, and maintained as noted above, and no additional compensation will be allowed but shall be construed to be included in the price bid for other items.

Alternate black & white stripes. See General Notes for direction of stripes

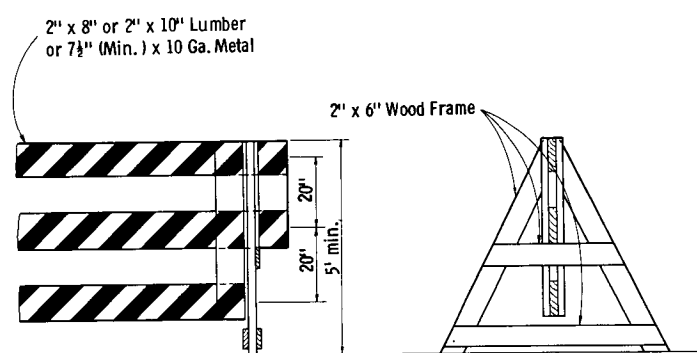
4" or 6" but consistent for each barricade installation



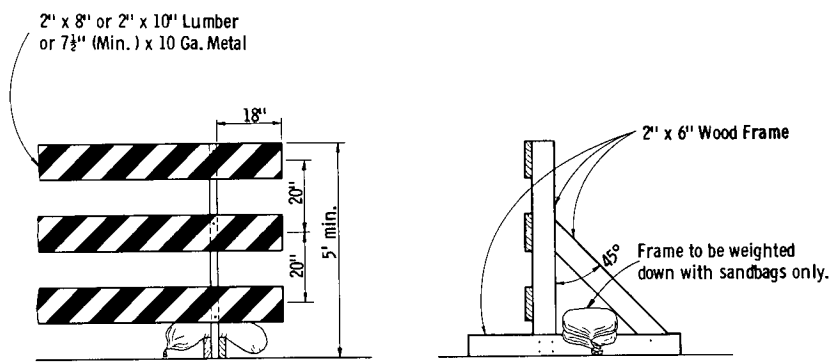
TYPICAL DIAGONAL STRIPES
Applies to all Classes & Types of Barricades



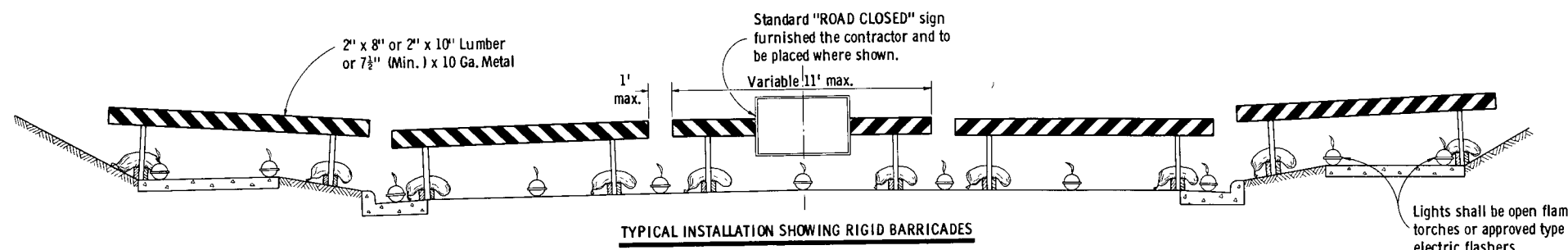
TYPICAL INSTALLATION SHOWING FIXED AND RIGID BARRICADES



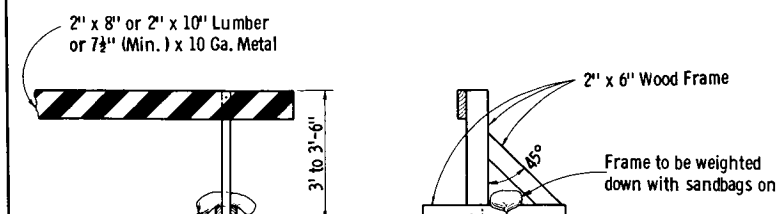
ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)



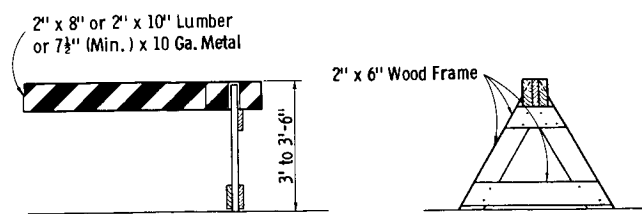
ALTERNATE TYPE INSTALLATION (RIGID)

CLASS I BARRICADES

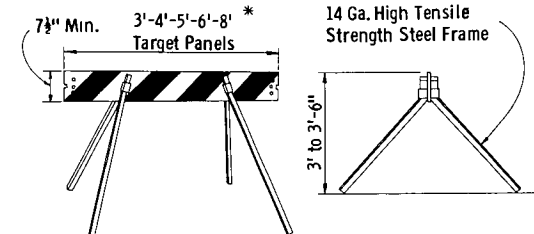
TYPICAL INSTALLATION SHOWING RIGID BARRICADES



ALTERNATE TYPE INSTALLATION (RIGID)



ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

CLASS II BARRICADES

* Maximum length of combination panels 16'

ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

CONSTRUCTION BARRICADE

State Highway Commission of Wisconsin

RECOMMENDED FOR APPROVAL

DATE 1/11/67

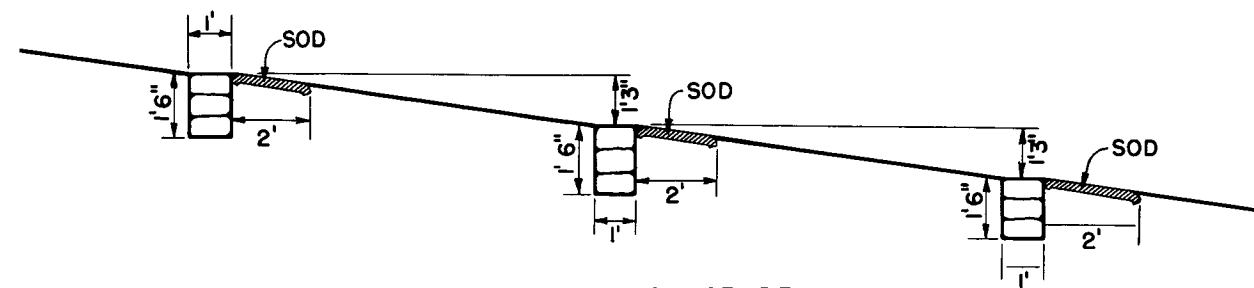
APPROVED

DATE 1/13/67

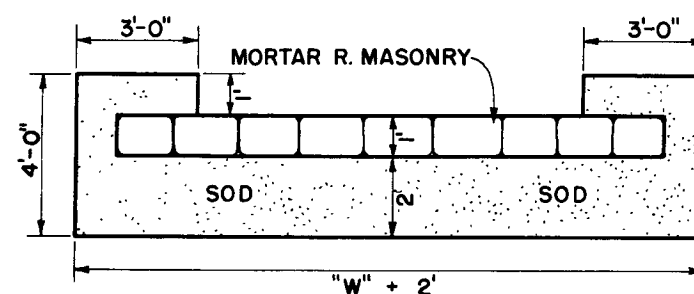
E. J. B. DESIGN ENGINEER

STATE HIGHWAY ENGINEER

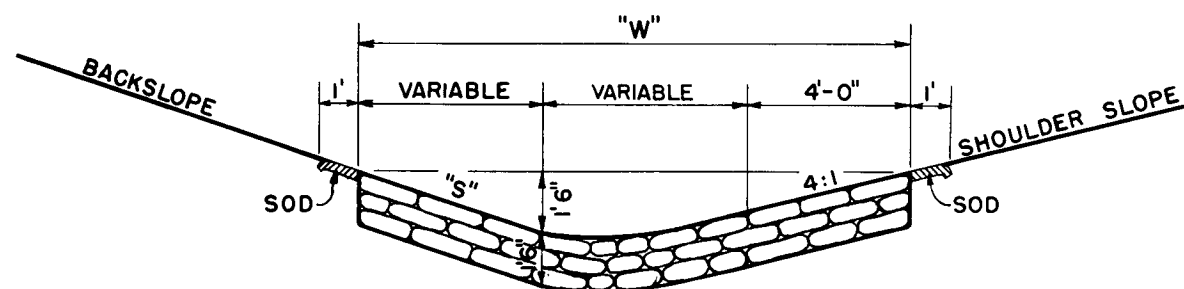
Plate No. 7-4.1.5



PROFILE OF DITCH GRADE



PLAN VIEW SHOWING SOD



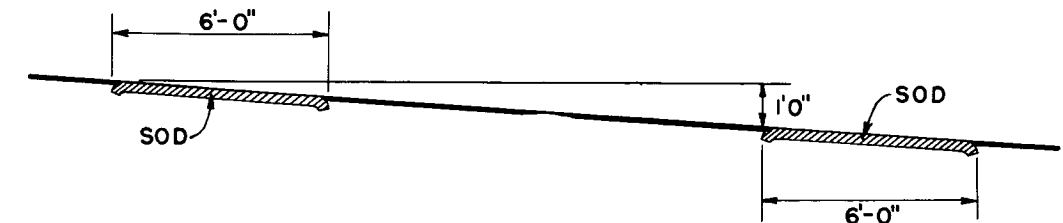
SECTION

MORTAR RUBBLE MASONRY

QUANTITIES			
"S"	"W"	SOD SQ. YD.	EACH CU. YD.
2:1	12'	4.0	0.67
3:1	13.5'	4.33	0.75
4:1	15'	4.67	0.83

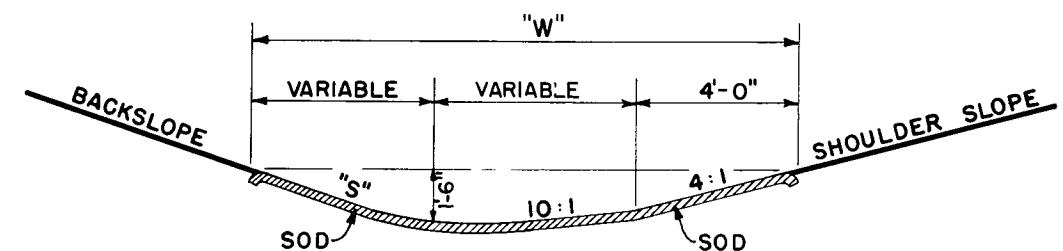
CONSTRUCTION NOTES

DETAILS OF CONSTRUCTION NOT SHOWN SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PROFILE OF DITCH GRADE

NOTE: NUMBER REQUIRED WILL BE DETERMINED BY VERTICAL SPACING.



SECTION

SOD DITCH CHECKS

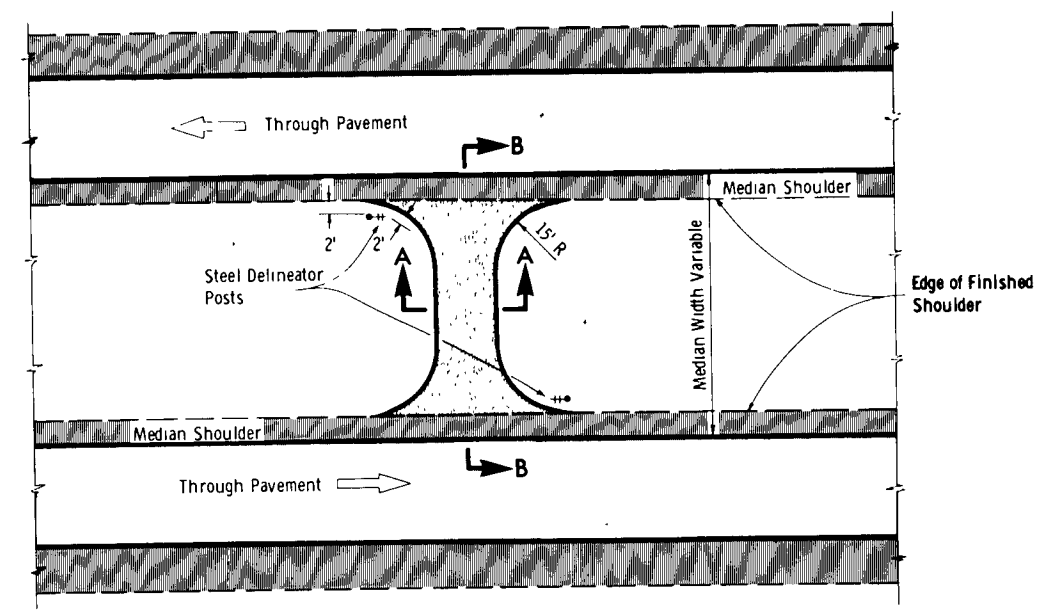
QUANTITIES		
"S"	"W"	EACH SQ. YD.
2:1	12'	8
3:1	13.5'	9
4:1	15'	10

DITCH CHECKS	
MORTAR RUBBLE MASONRY & SOD	
STATE HIGHWAY COMMISSION OF WISC.	
RECOMMENDED FOR APPROVAL:	
DATE:	<i>Frank Crave</i> DESIGN ENGINEER
APPROVED:	<i>W. Bluh</i> CONSTRUCTION ENGINEER
DRAWN DIV 9	<i>E. L. Rottger</i> STATE HIGHWAY ENGINEER
CHECKED	

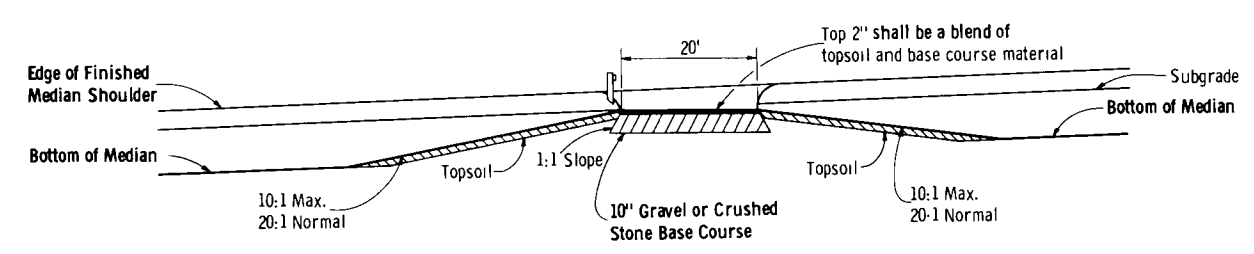
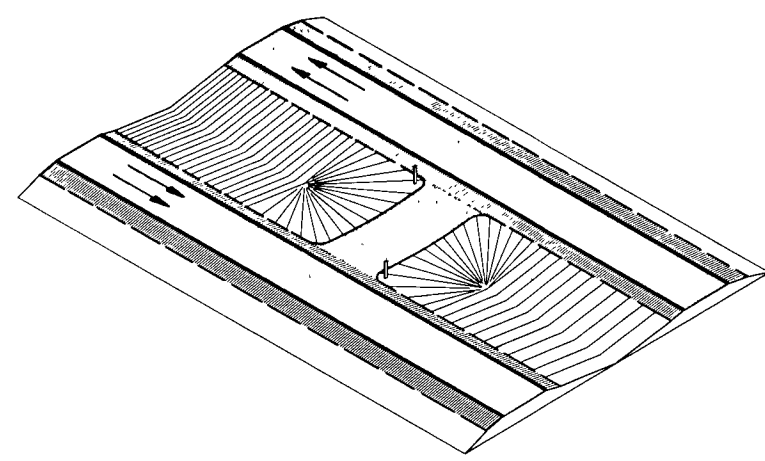
8-1.3.1

8-1.3.1

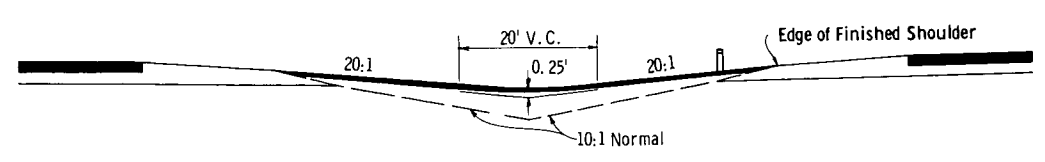
28.9-41



PLAN VIEW



SECTION A-A

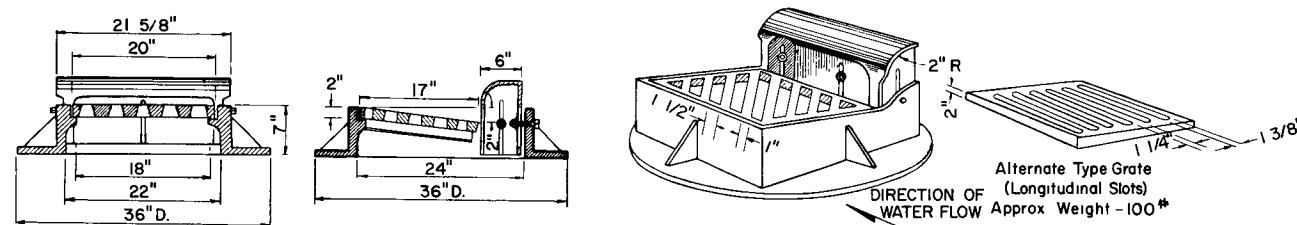


SECTION B-B

GENERAL NOTES

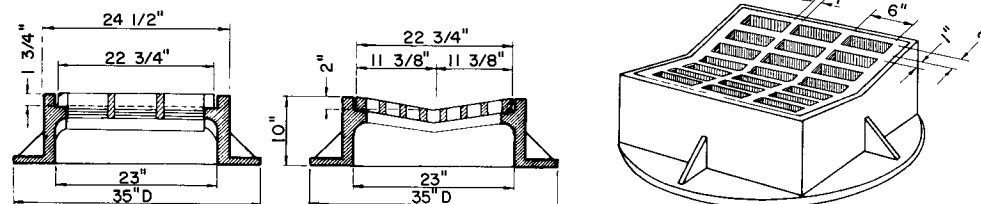
Blend sufficient topsoil with the top 2 inches of the base course material to provide a seed bed and to subdue the stone color. The entire surface shall be fertilized and seeded.
Details of construction shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

MAINTENANCE CROSSOVER FOR FREEWAYS	
State of Wisconsin Department of Transportation Division of Highways	
RECOMMENDED FOR APPROVAL DATE 1/25/68	E. J. B. B. B. CHIEF DESIGN ENGINEER
APPROVED DATE 2/9/68	H. J. B. B. B. STATE HIGHWAY ENGINEER



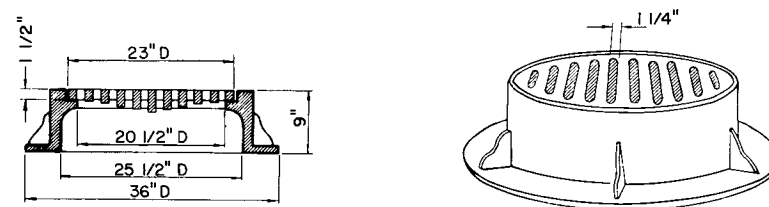
TYPE "A" - (Approx Weight 390 Lbs.)

Frame Weight - 250 #
Grate " - 90 #
Box " - 50 #



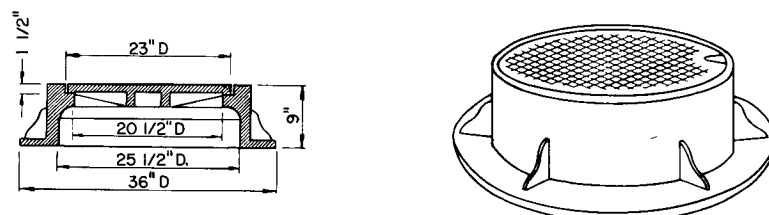
TYPE "B" - (Approx Weight 414 Lbs.)

Frame Weight - 275 #
Grate " - 139 #

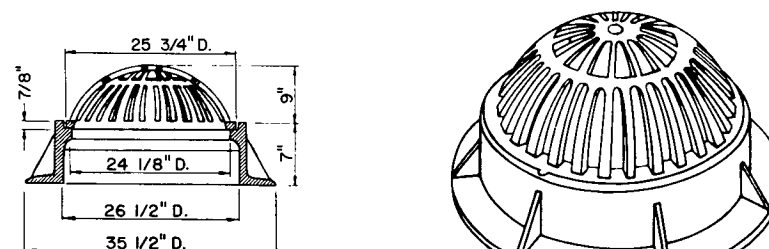


TYPE "C" - (Approx Weight 370 Lbs.)

Frame Weight Type "C" & Type "D" - 255 #
Slotted Grate Weight - 115 #
Solid Cover Weight - 150 #
(Note: Frame for Type "C" same as for Type "D")



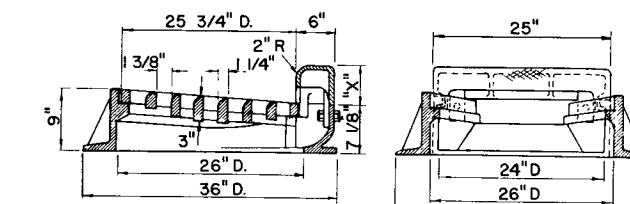
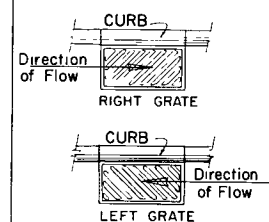
TYPE "D" - (Approx Weight 405 Lbs.)
(Note: Frame for Type "D" same as for Type "C")



TYPE "E" - (Approx Weight 325 Lbs.)

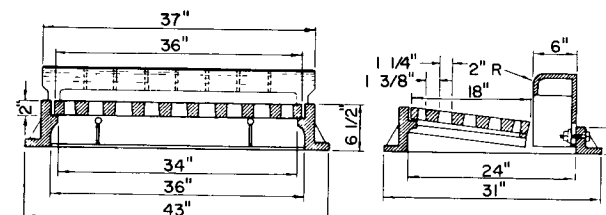
SPECIAL NOTE
Diagonal Slots shall be oriented to the direction of flow as shown hereon. Hence RIGHT and LEFT Grates shall be furnished depending on direction of flow (See Sketch Below)

Longitudinal slot type grates may be used ONLY where bicycles are prohibited



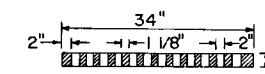
TYPE "G" - (Approx Weight 425-465 Lbs.)

Frame Weight - 235 #
Grate " - 130 #
Box - See Table

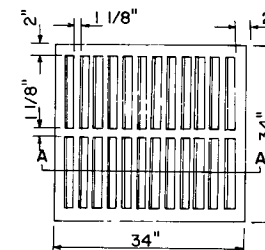


TYPE "H" - (Approx Weight 530 Lbs.)

Frame Weight - 220 #
Grate " - 200 #
Box " - 110 #

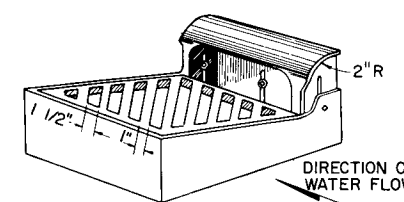
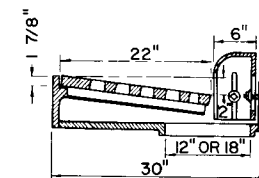
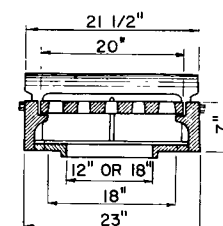


SECTION A - A

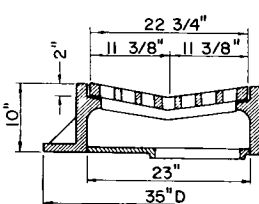
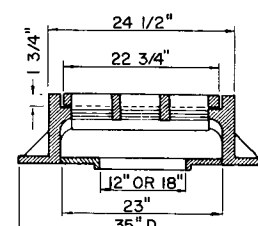


INLET COVER TYPE MS

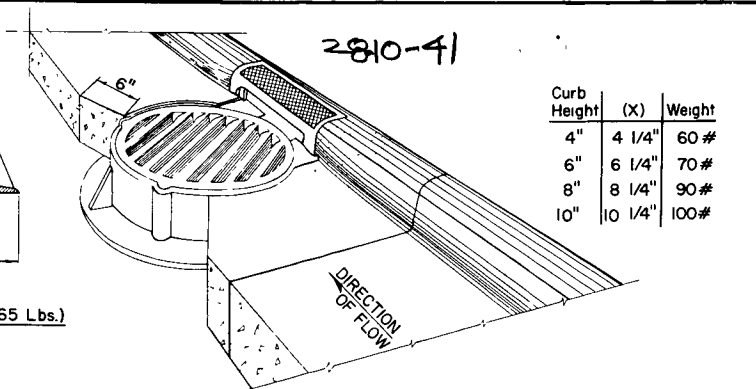
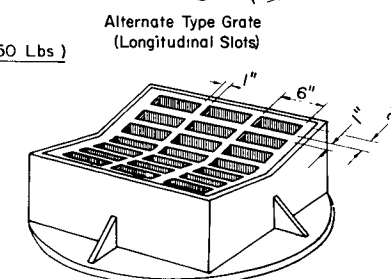
GRATE WEIGHT 270 #



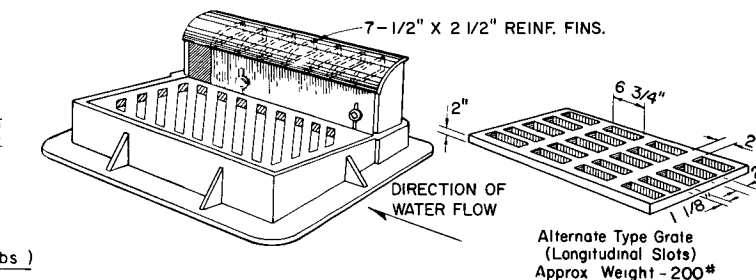
TYPE "R" - (Approx Weight 450 Lbs.)



TYPE "S" - (Approx Weight 450 Lbs.)



Curb Height	(X)	Weight
4"	4 1/4"	60 #
6"	6 1/4"	70 #
8"	8 1/4"	90 #
10"	10 1/4"	100 #



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.

BEARING SURFACES

All Catch Basin and inlet frames and grates which are placed in vehicular traffic areas shall be "Non-Rocking" type, so as to prevent any or all cover noise under traffic.

NOMENCLATURE

All Catch Basin and inlet units are designated on the Plans as "Catch Basins 1-A", 2-B, etc., or "Inlets 1-A", 3-H, etc. This designation is interpreted to mean that the number, or first digit designates the masonry portion of the structure, and the following letter or second digit designates the type of cover or iron casting (shown hereon) to be used therewith to comprise the complete unit "Catch Basin" or "Inlet" in place.

ADJUSTMENTS

Curb box height to be adjustable 4"-9" unless otherwise noted. Curb box height to be adjusted after curb form is in place.

ALTERNATE DESIGNS

Detailed drawings for proposed alternate designs for "Catch Basin" or "Inlet" covers may be submitted to the Engineer for approval providing that such alternate designs make provision for equivalent capacity and strength.

CATCH BASIN & INLET COVERS

State Highway Commission of Wisconsin

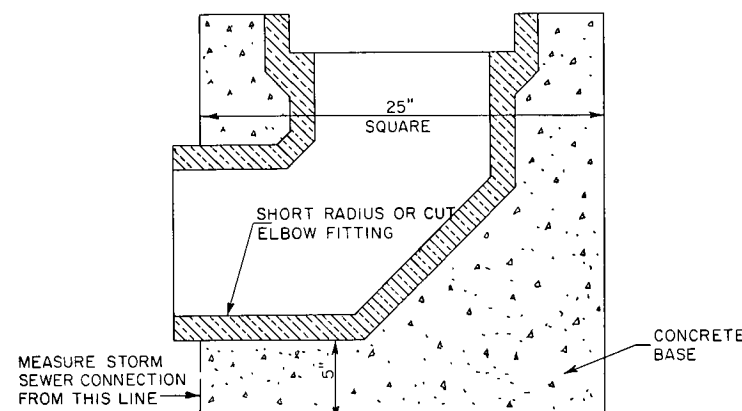
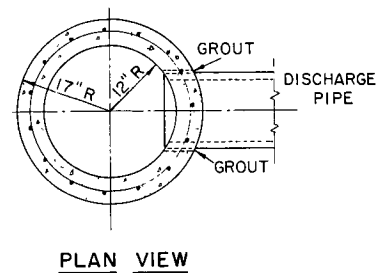
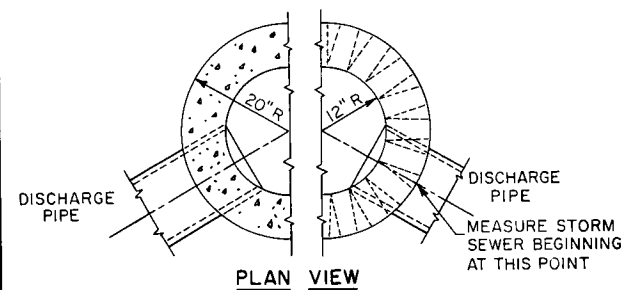
RECOMMENDED FOR APPROVAL

DATE 9/12/67

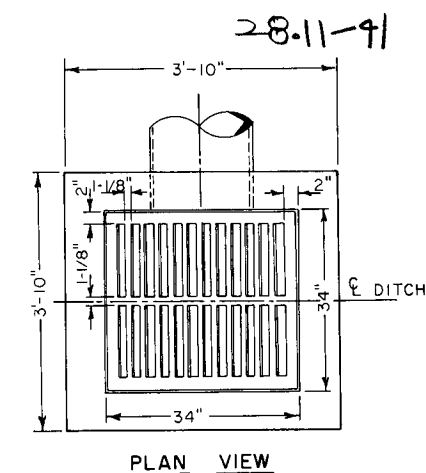
APPROVED

DATE 9/12/67

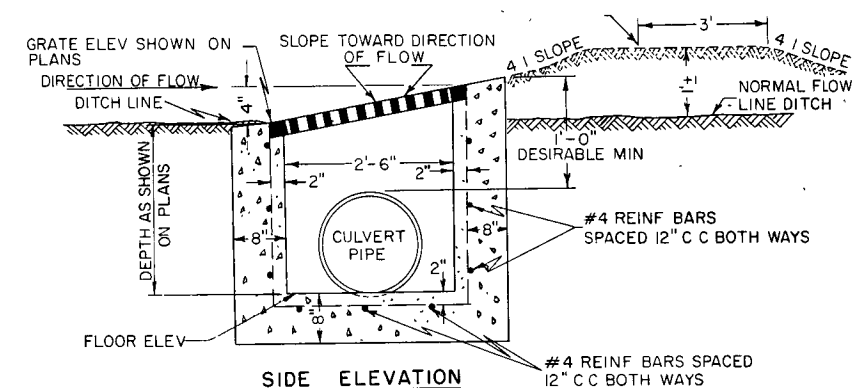
STATE HIGHWAY ENGINEER



INLET TYPE 2

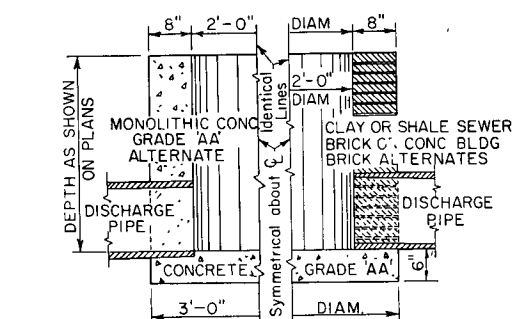


PLAN VIEW



SIDE ELEVATION

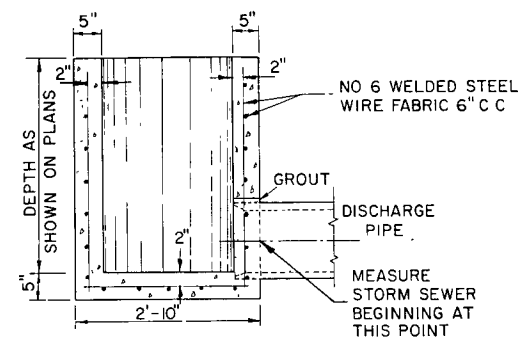
INLET TYPE 8



ELEVATION VIEW

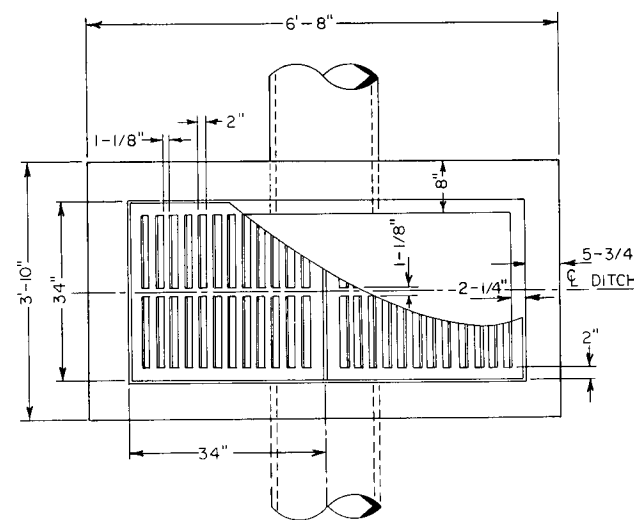
SHOWING DETAILS FOR MONOLITHIC CONCRETE, CLAY OR SHALE SEWER BRICK, OR CONCRETE BUILDING BRICK ALTERNATES FOR

INLET TYPE 1

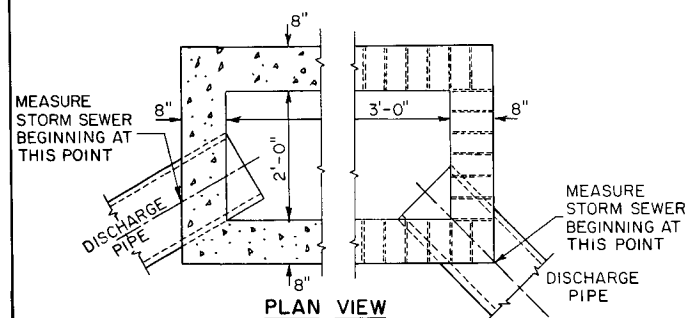


ELEVATION VIEW

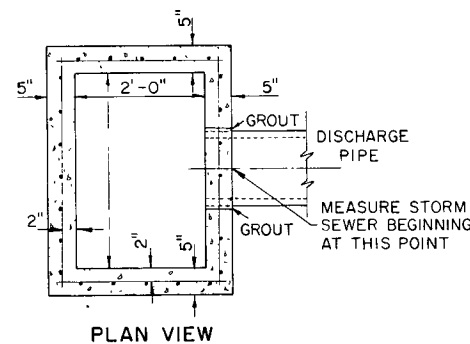
SHOWING DETAILS FOR PRE-CAST CONCRETE ALTERNATES FOR



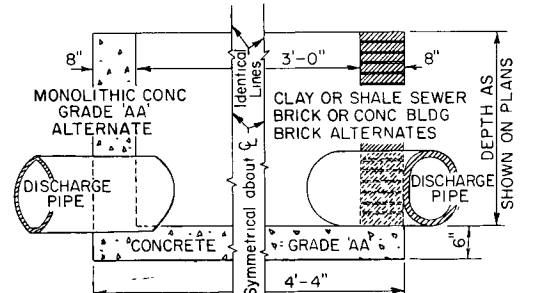
PLAN VIEW



PLAN VIEW



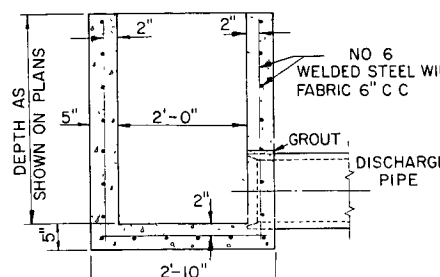
PLAN VIEW



ELEVATION VIEW

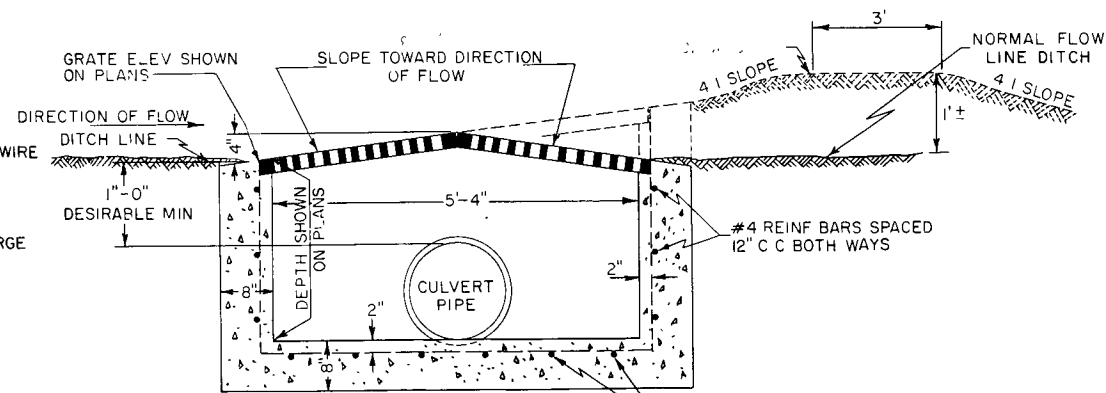
SHOWING DETAILS FOR MONOLITHIC CONCRETE, CLAY OR SHALE SEWER BRICK, OR CONCRETE BUILDING BRICK ALTERNATES FOR

INLET TYPE 3



ELEVATION VIEW

SHOWING DETAILS FOR PRE-CAST CONCRETE ALTERNATE FOR



SIDE ELEVATION

INLET TYPE 9

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.

ARRANGEMENT, SIZE AND NUMBER OF INLET AND DISCHARGE PIPES SHALL CONFORM TO THE NEEDS OF THE PERTINENT LOCATION.

INLETS ARE CALLED FOR ON THE PLANS AS "INLETS 1-A", "INLETS 2-R", ETC. THE NUMBER DESIGNATES THE MASONRY PORTION OF THE STRUCTURE AND THE LETTER DESIGNATES THE COVER TO BE USED THEREON.

INLETS

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

DATE 11-21-63

APPROVED

DATE 12-3-63

ENGINEER OF DESIGN

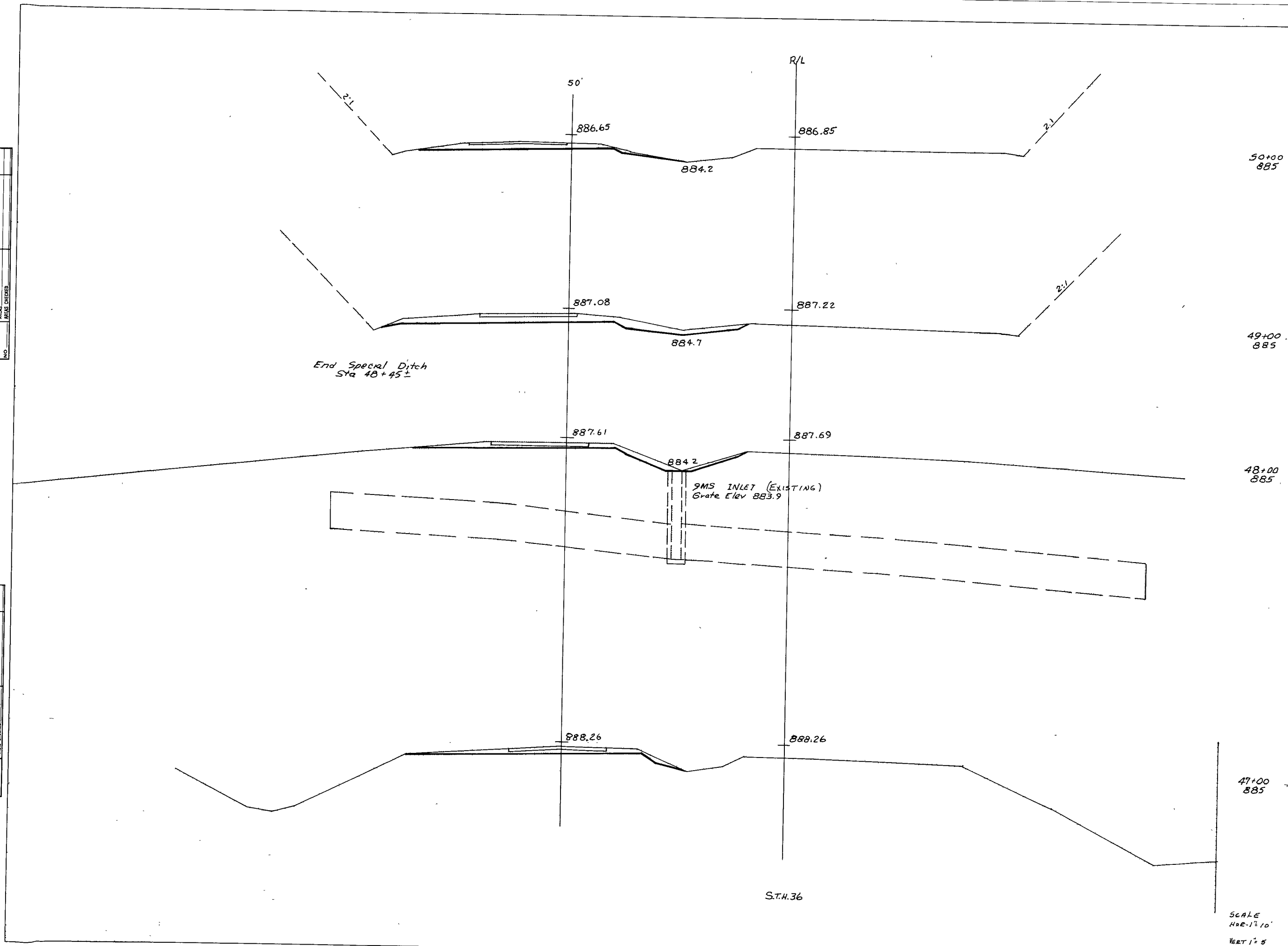
STATE HIGHWAY ENGINEER

PLATE NO 5-352



STATION	DISTANCE	YARDAGE				
		UNCL	EXCAVATION			FILL
34 + 00	100	50			0	
35 + 00		120			0	
36 + 00		165			0	
37 + 00		163			0	
38 + 00		82			41	
39 + 00		11			126	
40 + 00		0			196	
41 + 00						

BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	F04-1(21) 1081-2-81	31	41



STATION	DISTANCE	YARDAGE					
		UNCL.	EXCAVATION				FILL
46 + 00	100	9				0	
47 + 00		24				0	
48 + 00		70				0	
49 + 00		46				0	
50 + 00							
					</		

SCALE
HORIZ = 1" = 10'
VERT 1" = 5'

SHEET TOTAL

FUNCTIONAL CROSS SECTION OPEN DOTTED
CHARLES BRUNING COMPANY, INC

5TH 31. 4M 100 K 1000

BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEET
4 WIS.	FD4-1(21) 1081-2-81	32	41

[illegible]

SCALE
HOR-1"=10'
VERT 1"=5'

SHEET TOTAL

S.T.H. 36 51400 - 53400

FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHARLES BRUNING COMPANY INC

[illegible]

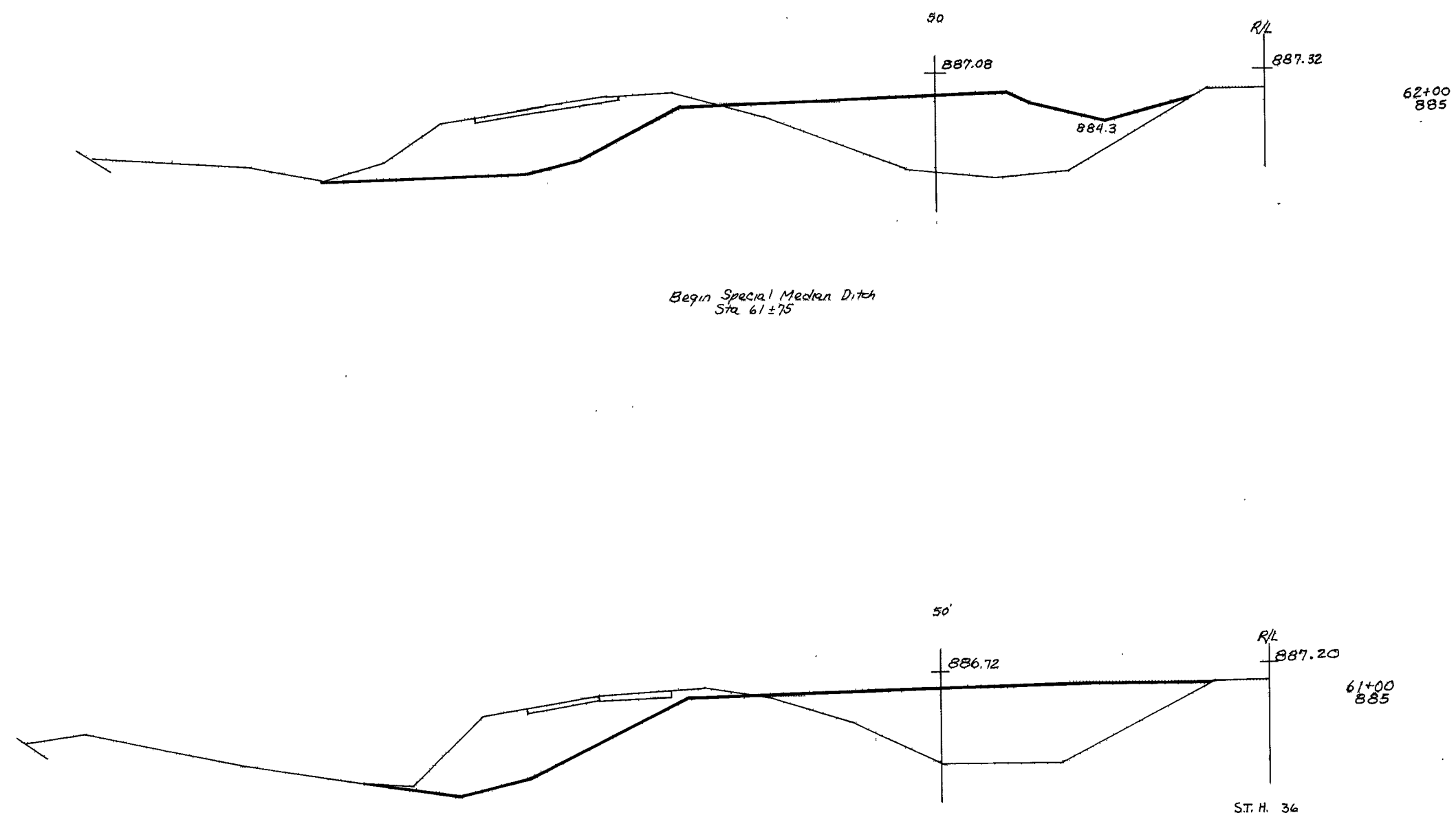
SCALE
HOR 1" = 10'
VERT 1" = 5'

FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHARLES BRUNING COMPANY, INC

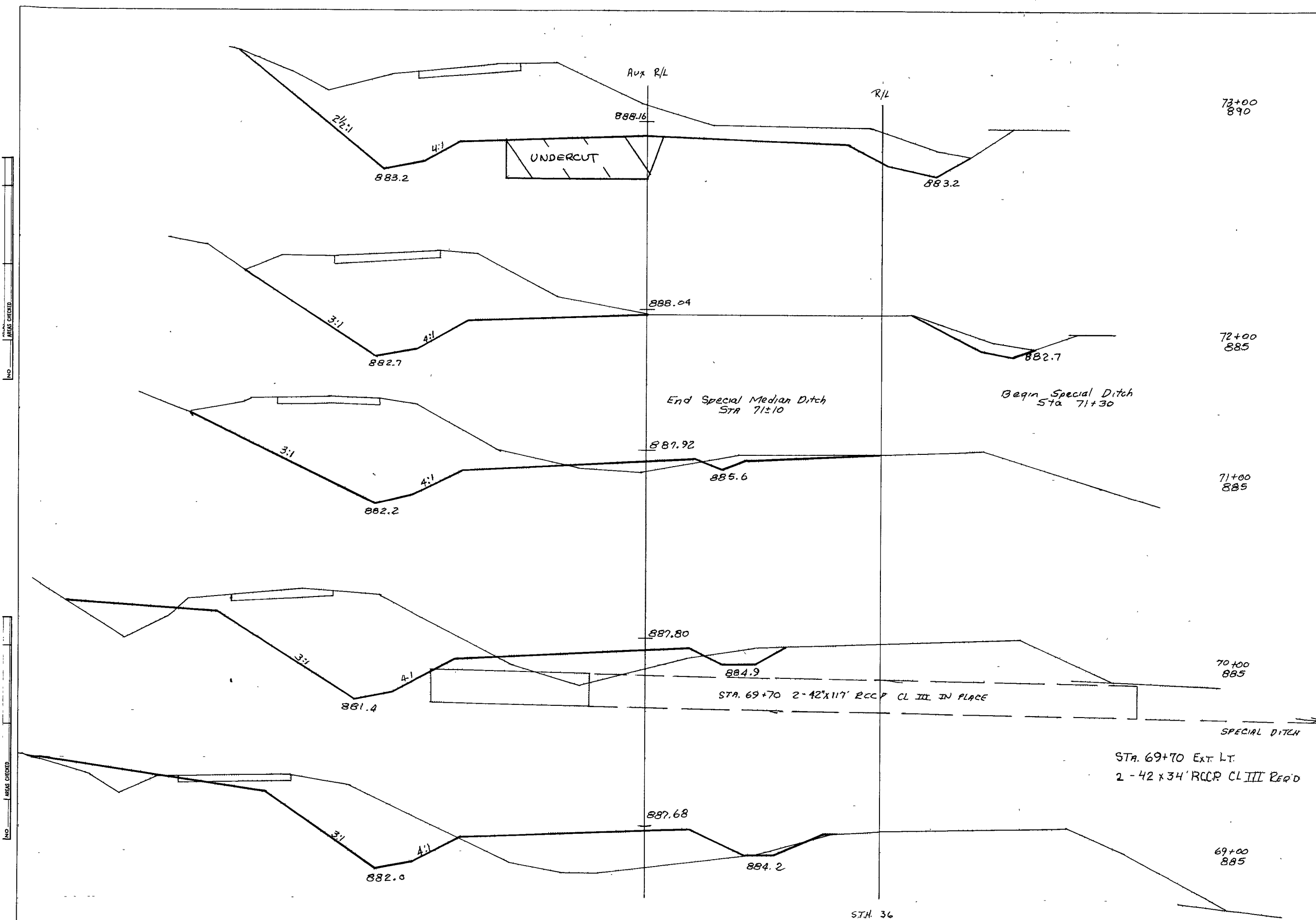
574-27 50100-1010

BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEET
4 WIS.	F04-1(21) 10B1-2-81	36	41

STATION	DISTANCE -	YARDAGE				
		UNCL	EXCAVATION			FILL
60 + 00						
61 + 00	100	482			717	
62 + 00		639			917	
			</			



BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	F04-1 (21) 10B1-2-B1	39	41

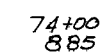
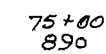
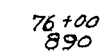
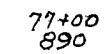
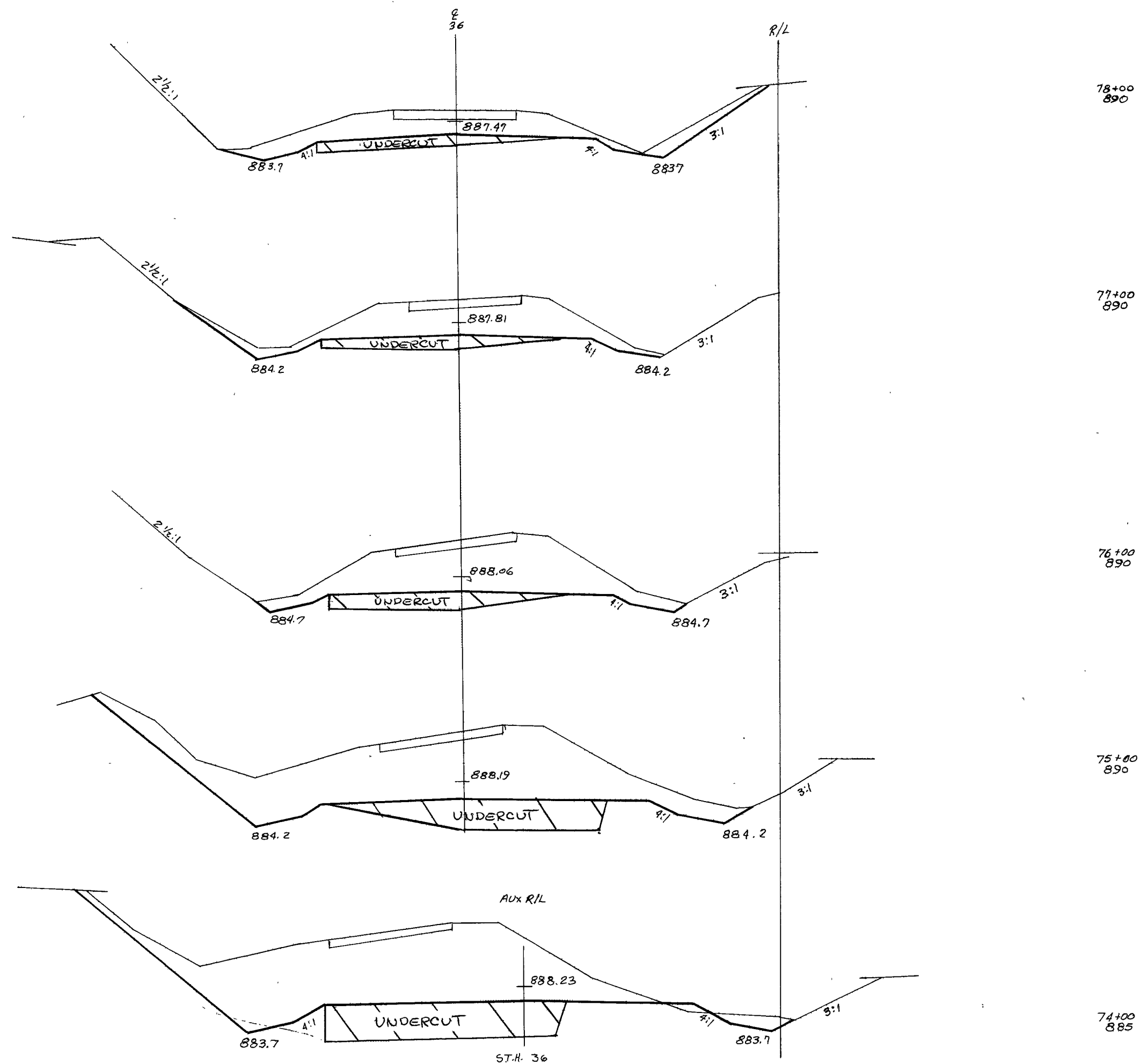


STATION	DISTANCE	YARDAGE				FILL
		UNCL	EXCAVATION			
68 + 00	100	737				537
69 + 00		1080				658
70 + 00		1546				370
71 + 00		1667				111
72 + 00		2065				0
73 + 00						
TOTAL		7095				1676

SCALE
HOR. 1"=10'
VERT 1"=5'

SHEET TOTAL	7095			1676
-------------	------	--	--	------

BPR REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	F04-1 (21) 1081-2-B1	40	41



STATION	DISTANCE	YARDAGE				
		UNCL	EXCAVATION			FILL
73 + 00	100	2185				0
74 + 00		1861				0
75 + 00		1370				0
76 + 00		778				0
77 + 00		593				0
78 + 00						

SCALE
HOR. 1" = 10'
VERT. 1" = 5'

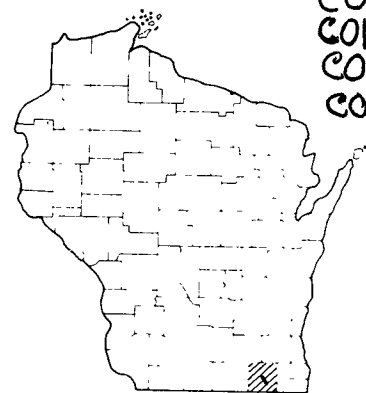
SHEET TOTAL

STH, 36 74+00 - 78+00

FUNCTIONAL CROSS SECTION - OPEN DOTTED
CHARLES BRUNING COMPANY, INC

Index of Sheets

Sheet No. 1	Title
Sheet No. 2-2.43	Typical Cross Sections
Sheet No. 3	Estimate of Quantities
Sheet No. 3A-3C	Miscellaneous Quantities
Sheet No. 4-4.1	Right of Way Plat
Sheet No. 5-27	Plan and Profile Sta. 563+00 to Sta. 1104+00
Sheet No. 28-28.11	Standard Details
Sheet No. -	Drainage Structures
Sheet No. 29-41	Cross Sections



CONSTRUCTION STARTED - 7/21/69
CONSTRUCTION SUSPENDED - 11/6/69
CONSTRUCTION RESUMED - 5/25/70
CONSTRUCTION COMPLETED - 6/19/70

DIARY NUMBER - 1864
"M" Books - NO NUMBERS

Design Designation

CONTROL OF ACCESS = FULL
A.D.T. (1970) = 6,250
A.D.T. (1990) = 15,100
D.H.V. = 3,020
D = 70-30
T = 11.7% (1970); 11.0% (1990)
V = 70 MPH

Conventional Signs

State Line	-----	Culverts in Place	-----
County Line	-----	Culverts Required	-----
Township or Range Line	-----	Drop Inlet	-----
Section Line	-----	Power Pole	-----
New Right of Way Line	-----	Telephone or Telegraph Pole	-----
Present Right of Way Line	-----	Right of Way Markers	-----
Wire Fence { Woven	-----	Reference Stake for Hubs Only	-----
Barbed	-----	Marsh	-----
Lot Line	-----	Hedge	-----
Corporate or City Limits	-----	Trees	-----
Property Line	-----	Ground Elevation	Datum Line 73.0
Traveled Way or P.E.	-----	Grade Elevation	Datum Line 70.0
Railroads	-----		
Base or Survey Line	-----		

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED

GENOA CITY - ELKHORN ROAD

(S.T.H. 50 - S.T.H. 67 SECTION)

U.S.H. 12

WALWORTH COUNTY

PROJECT IDENTIFICATION NUMBER	FEDERAL PROJECT DESIGNATION
1081-2-81,82	F 04-1(21)

Scales
Plan 1 in = 100 ft
Profile 1 in = 100 ft
Cross Sections 1 in = 10 ft

STA. 1105.00 R = STA. 1105.00 R
END OF PROJ. F 04-1(20)

END OF PROJECT F 04-1(21) CONTRACT 2/1081-2-82

STA. 1109+00 R
450' S & 55' E. (GRID DIST.) OF THE
SE CORNER OF SECTION 24 T 3 N, R 16 E
= STA. 1109+00 R PROJECT F 04-1(17)
WISCONSIN PLANE COORDINATES N. 257,635.26
(SOUTH ZONE) E. 2,392,061.05

STA. 1042+54.67 PROJECT F 04-1(21) =
STA. 1042+54.67 PROJECT F 04-1(19)

STA. 1007+80 PROJECT F 04-1(21) =
STA. 1007+80 PROJECT F 04-1(18)

STA. 1000+00 PROJECT F 04-1(21) =
STA. 1000+00 PROJECT F 04-1(16) END &
STA. 1000+00 PROJECT F 04-1(17) BEGIN

STA. 917+76.79 PROJECT F 04-1(21) =
STA. 917+76.79 PROJECT F 04-1(15) END &
STA. 917+76.79 PROJECT F 04-1(16) BEGIN

BEGINNING OF PROJECT F 04-1(21) CONTRACT 2/1081-2-82

= STA. 919+16.69 R
1045' S & 1335' E. (GRID DIST.) OF THE N. 1/4 CORNER
OF SECTION 8 T 2 N, R 17 E.
WISCONSIN PLANE COORDINATES N. 241,450.01
(SOUTH ZONE) E. 2,401,669.62

END OF PROJECT F 04-1(21) CONTRACT 1/1081-2-81

= STA. 917+76.79 R
1180' S & 1330' W. (GRID DIST.) OF THE N.E. CORNER OF
SECTION 8 T 2 N, R 17 E.
WISCONSIN PLANE COORDINATES N. 241,323.00
(SOUTH ZONE) E. 2,401,728.27

STA. 731+00 PROJECT F 04-1(21) =
STA. 731+00 PROJECT F 04-1(15) BEGIN

STA. 597+00 PROJECT F 04-1(21) =
STA. 597+00 PROJECT F 04-1(11) END

BEGINNING OF PROJECT F 04-1(21) CONTRACT 1/1081-2-81

STA. 563+00 R
280' S & 1025' E. (GRID DIST.) OF THE N. 1/4 CORNER
SECTION 31 T 2 N, R 18 E
= STA. 563+00 PROJECT F 04-1(11)
WISCONSIN PLANE COORDINATES N. 220,943.54
(SOUTH ZONE) E. 2,428,333.40

= STA. 563+00, END PROJECTS F 04-1(12) & (13)
= STA. 563+00 PROJECT F 04-1(20) BEGIN

CONTROL OF ACCESS

WITHIN LIMITS OF THE PROJECT
WHERE CONTROL OF ACCESS LINE
IS SHOWN THUS
NO ACCESS IS PERMITTED TO THE
HIGHWAY TRAFFIC LANES EXCEPT
BY RAMPS AT INTERCHANGES.

Layout

Scale 0 1 2 Mi.

Total Net Length of Centerline = 9.441 Mi. RURAL
" " " = 0.717 Mi. MCPL.
TOTAL = 10.158 Mi.

EXCEPTIONS TO NET LENGTH OF R

Sta. 598+02.74 to Sta. 598+37.25 (B-64-30)	
621+44.25 " " 623+33.75 (B-64-32 & 33)	
693+01.30 " " 693+56.70 (B-64-34)	
701+40.10 " " 702+83.30 (B-64-35 & 36)	
731+44.12 " " 731+90.00 (B-64-37 & 38)	
867+50.53 " " 867+87.83 (B-64-61)	
917+76.79 " " 919+16.69 (B-64-41 & 42)	
933+55.53 " " 935+46.58 (B-64-44 & 43)	
1042+54.67 " " 1043+85.85 (B-64-46 & 47)	

64.1 - 4.1 - 13.21

Sheet Number	Total Sheets
1	41

PRIME CONTR. - JAMES CAPE & SONS

SUBCONTR. - E. KRAEMER & SONS - BASE COURSE

B. RAMON & SONS - BITUMINOUS

MANN BROS. - TOPSOIL

SWEENEY BROS. - SEEDING, SODDING, BEAM GUARD,
ANCHORAGES

WM E. BRINKMAN - PAV'T. TERMINAL ANCHORS

PROJECT ENGR. - ROBERT MURPHY

PROJECT DIARY - NO. 1864

PROJECT PERSONNEL: D. BRANDT, J. ROGERS,
J. KING, J. FITZGERALD, C. McFADDEN, A. LENZ,
E. LINDE, T. SMITH, R. SCHOPP, C. WOHL,
R. BARRY, D. ARNOLD, A. SCHOPP,
DON DANA

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
Surveyor: D.C. & CO.	Now Book: _____
District Computer: T.L. & K.G.	M.O. Checker: P.L.C.
District Checker: F.W.N. & C.B.	Correct: _____
Correct	
Date: 2/24/69	District Engineer: <i>D.T. Canasgah</i>
Recommended for Approval	
Date: 3/3/69	Chief Design Engineer: <i>E.J. Bytkit</i>
Approved	
Date: 3/4/69	State Highway Engineer: <i>J.P. Bannister</i>
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION BUREAU OF PUBLIC ROADS	
REGION: _____ WISCONSIN DIVISION	
Approved: _____	
Date: _____ Division Engineer	

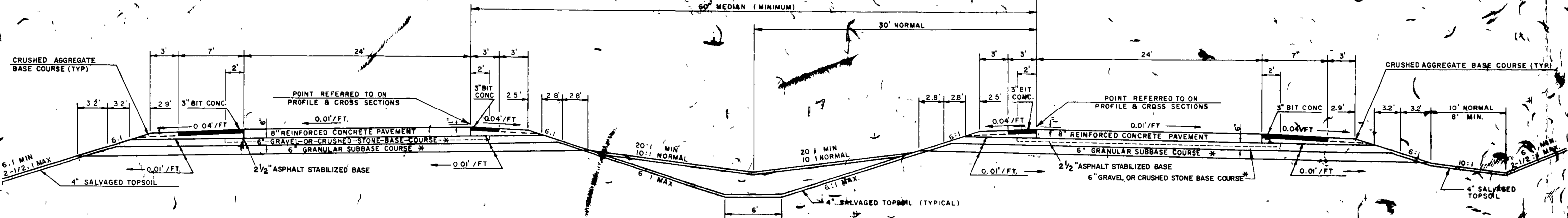
F 04-1(21)



TYP SECT

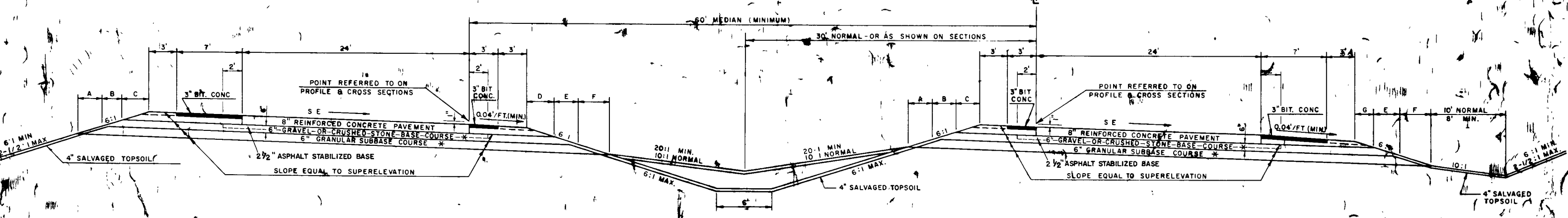
B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
	F04-1121	21	41

1081-2-81,82



TYPICAL NORMAL DUAL HIGHWAY SECTION - 4 LANE DIVIDED, 60' MEDIAN
STA. 731+00 TO STA. 916+54 **
STA. 936+47 TO STA. 1082+33 **

NOTE:
* IN PLACE



TYPICAL SUPERELEVATED DUAL HIGHWAY SECTION - 4 LANE DIVIDED, 60' MEDIAN
STA. 731+00 TO STA. 916+54 **
STA. 936+47 TO STA. 1082+33 **

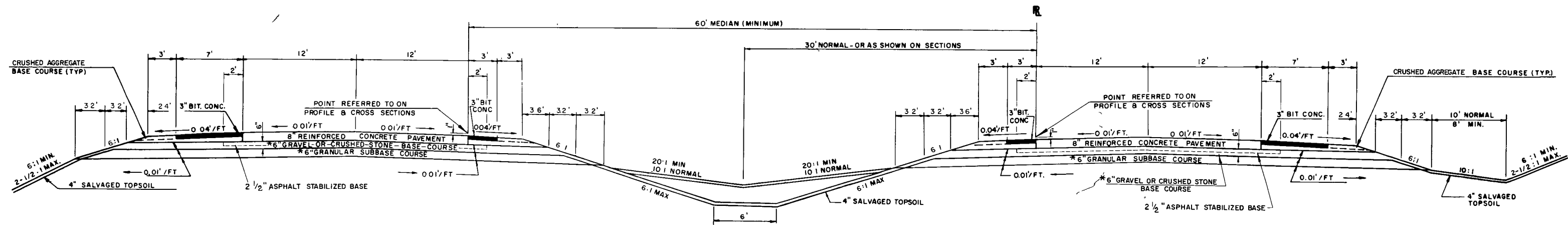
** FOR LOCATION OF 9" PAVEMENT
SEE SHEET 2.3

SUPERELEVATION TABLE								
DE	S.E.	A	B	C	D	E	F	G
0°-15'	0.02'/FT.	2.7	2.7	4.0	4.3	3.4	3.4	3.8
0°-45'	0.03'/FT.	2.5	2.5	3.8	5.1	3.7	3.7	4.8
1°-15'	0.035'/FT.	2.5	2.5	3.7	5.5	3.8	3.8	5.3
1°-30'	0.042'/FT.	2.4	2.4	3.6	6.0	4.0	4.0	6.0
1°-45'	0.05'/FT.	2.3	2.3	3.5	6.4	4.3	4.3	6.5
2°-00'	0.056'/FT.	2.3	2.3	3.4	6.7	4.5	4.5	6.7

ROTATION ABOUT MEDIAN EDGE OF PAVEMENTS

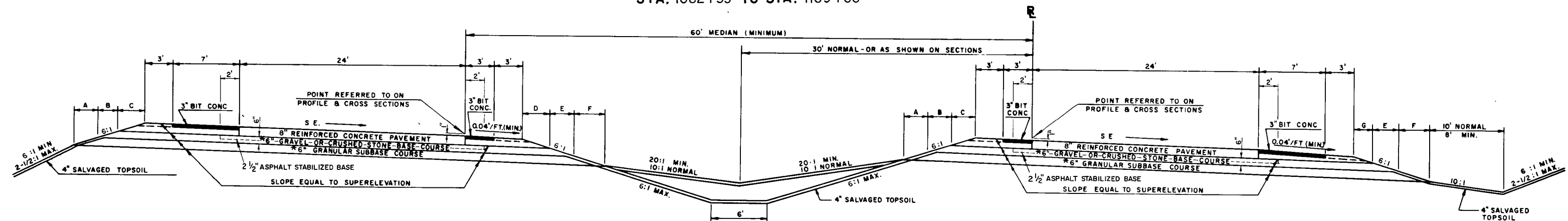
TYPICAL CROSS SECTION
FOR
GENOA CITY-ELKHORN ROAD
U.S.H. 12
WALWORTH COUNTY

REVISED 6-12-67 PHL



TYPICAL NORMAL DUAL HIGHWAY SECTION - 4 LANE DIVIDED, 60' MEDIAN
STA. 1082+33 TO STA. 1109+00

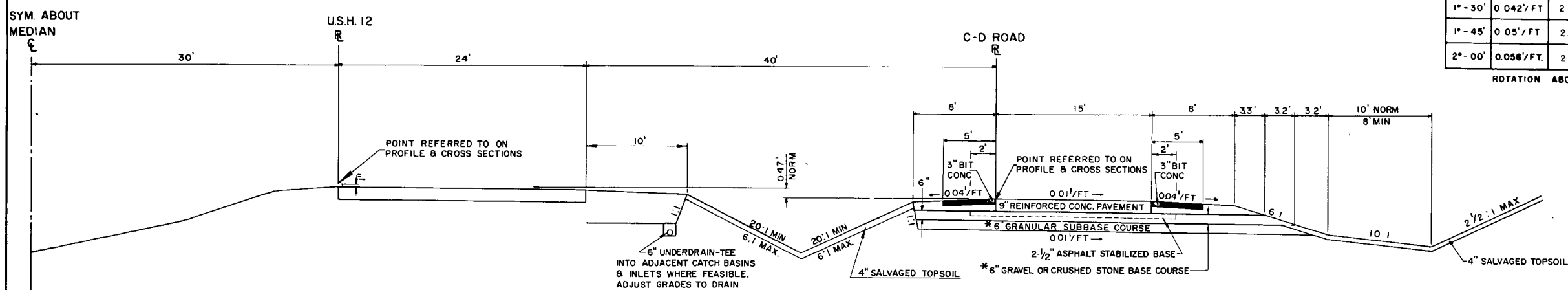
NOTE:
* IN PLACE



TYPICAL SUPERELEVATED DUAL HIGHWAY SECTION - 4 LANE DIVIDED, 60' MEDIAN
STA. 1082+33-STA. 1109+00

SUPERELEVATION TABLE								
DE	SE	A	B	C	D	E	F	G
0°-15'	0.02'/FT.	2.7	2.7	4.0	4.3	3.4	3.4	3.8
1°-00'	0.03'/FT.	2.5	2.5	3.8	5.1	3.7	3.7	4.8
1°-15'	0.035'/FT.	2.5	2.5	3.7	5.5	3.8	3.8	5.3
1°-30'	0.042'/FT.	2.4	2.4	3.6	6.0	4.0	4.0	6.0
1°-45'	0.05'/FT.	2.3	2.3	3.5	6.4	4.3	4.3	6.4
2°-00'	0.058'/FT.	2.3	2.3	3.4	6.7	4.5	4.5	6.7

ROTATION ABOUT MEDIAN EDGE OF PAVEMENTS



TYPICAL HIGHWAY SECTION U.S.H. 12 - S.T.H. 15 INTERCHANGE AREA WITH COLLECTOR DISTRIBUTOR RDS

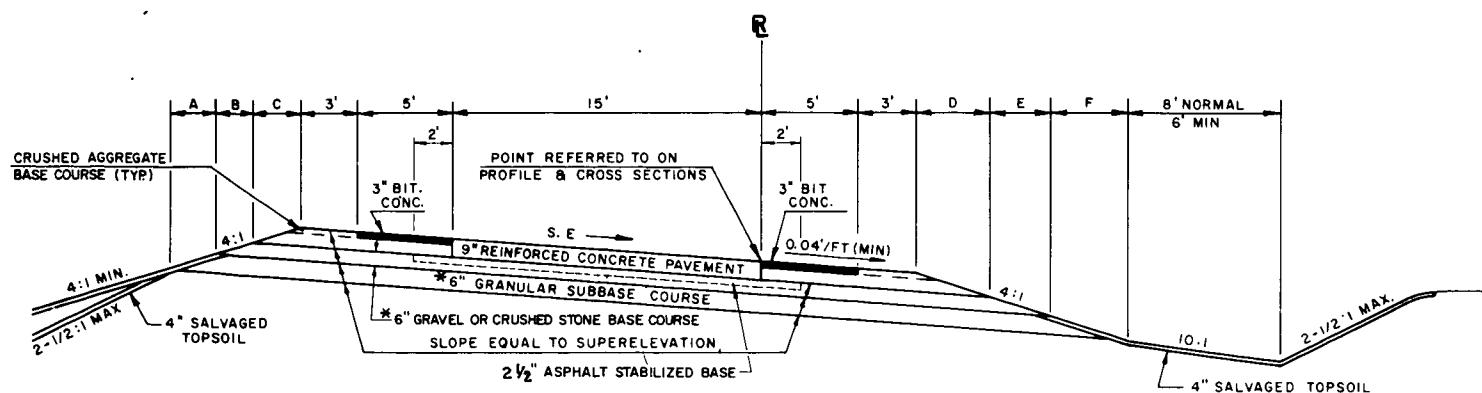
TYPICAL CROSS SECTION
FOR
GENOA CITY-ELKHORN ROAD

U.S.H. 12

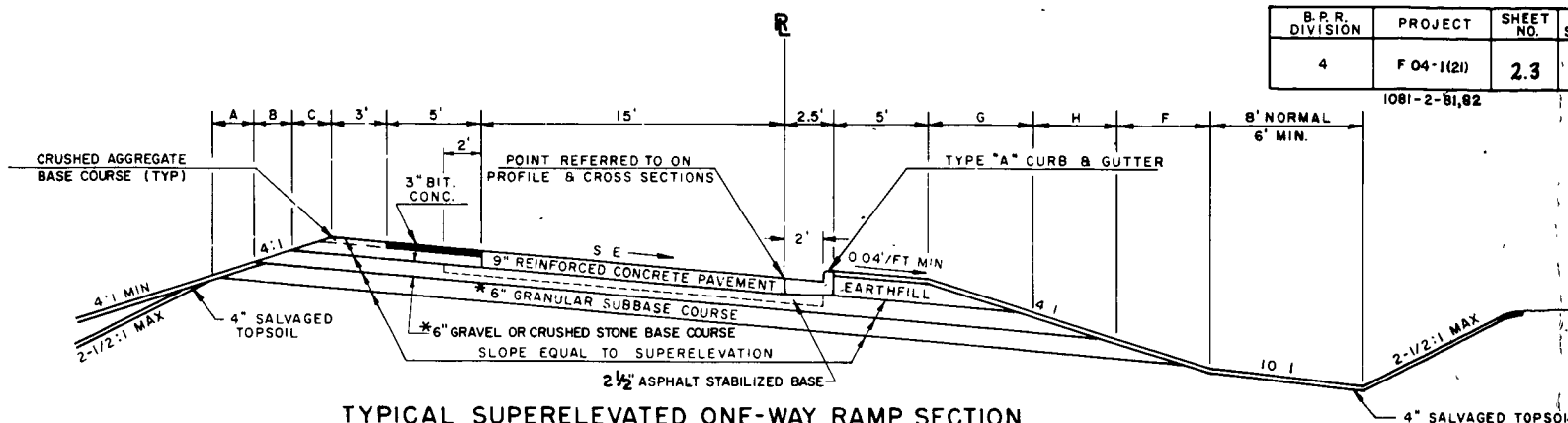
WALWORTH COUNTY

B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(2)	2.3	41

1081-2-81,82



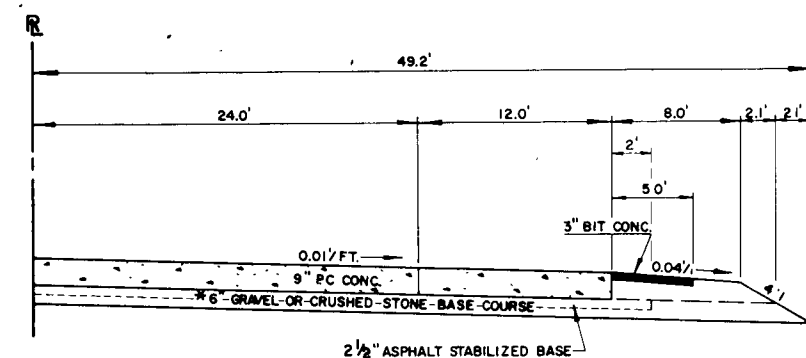
**TYPICAL SUPERELEVATED ONE-WAY RAMP SECTION
(WITHOUT BARRIER CURB)**



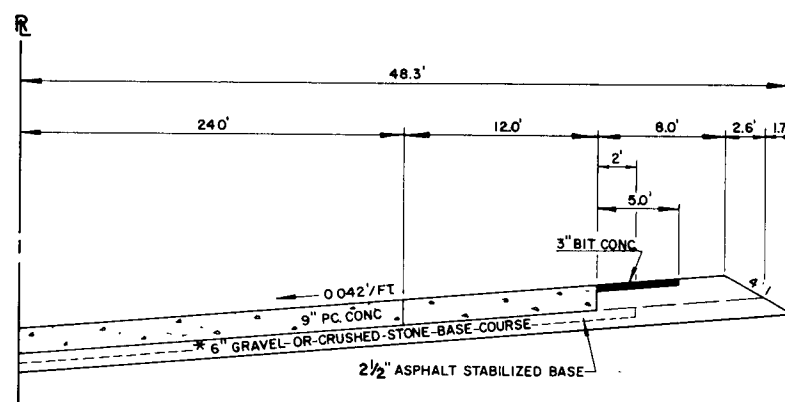
**TYPICAL SUPERELEVATED ONE-WAY RAMP SECTION
(WITH BARRIER CURB)**

SUPERELEVATION TABLE-RAMPS								
S.E.	A	B	C	D	E	F	G	H
0.01'/FT	19	19	29	21	21	21	39	21
0.02'/FT	19	19	28	26	22	22	43	22
0.03'/FT	18	18	27	31	23	23	47	23
0.04'/FT	17	17	26	36	24	24	52	24
0.05'/FT	17	17	25	38	25	25	54	25
0.06'/FT	16	16	24	40	26	26	57	26
0.07'/FT	16	16	23	42	28	28	60	28
0.08'/FT	15	15	23	44	29	29	64	29

ROTATION ABOUT E

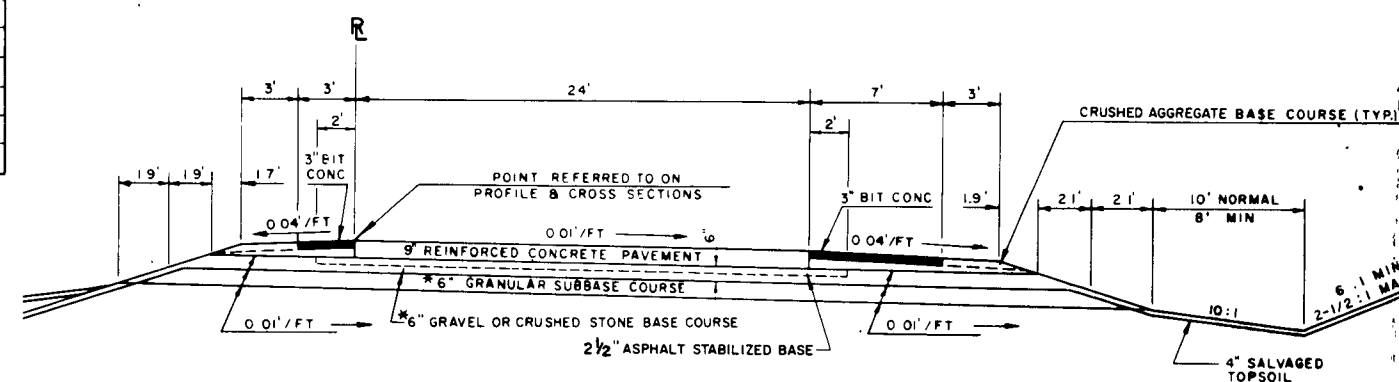


**TYPICAL SECTION AUXILIARY LANE U.S.H. 12
STA 625+75 TO STA 628±73**



**TYPICAL SUPERELEVATED
SECTION AUXILIARY LANE U.S.H. 12
STA 628±73 TO STA 641+00**

NOTE:
* IN PLACE



TYPICAL MAINLINE ONE-WAY ROADWAY SECTION (9" PC. CONC.)

CONTRACT 1

STA 549+00 TO STA 558+28 S.B.
STA 561+02 TO STA 561+82 S.B.
STA 620+44 TO STA 621+24 S.B.
STA 620+44 TO STA 621+24 N.B.
STA 699+71 TO STA 700+51 S.B.

STA 700+40 TO STA 701+20 N.B.
STA 702+54 TO STA 703+34 S.B.
STA 703+24 TO STA 704+04 N.B.
STA 917+31 TO STA 918+11 S.B.
STA 916+55 TO STA 917+35 N.B.

CONTRACT 2

STA 919+37 TO STA 933+11 N.B.
STA 920+13 TO STA 933+95 S.B.
STA 935+67 TO STA 936+47 N.B.
STA 936+61 TO STA 937+41 N.B.

STA 1041+54 TO STA 1042+34 N.B.
STA 1041+25 TO STA 1042+05 S.B.
STA 1044+14 TO STA 1044+94 N.B.
STA 1043+85 TO STA 1044+65 S.B.

APPROVED DETAIL DRAWINGS

- 2-1.1.12 Concrete Pavement Reinforcement
- 2-3.1.5 Structure Approach and Concrete Pavement/Approach Slab
- 3-1.1.7 Concrete Curb, Gutter, Combination Curb & Gutter, Surface Drain
- 4-4.4.8 Longitudinal Joints - Concrete Pavement
- 4-4.5.11 Transverse Joints - Concrete Pavement
- 6-2.4.3 Mortar Rubble Masonry or Riprap For Culvert and Cattle Pass Endwalls
- 5-3.4.8 Inlet Covers
- 5-3.5.2 Inlets
- 7-2.4.13 Steel Plate Beam Guard & Steel Beam Median Guard
- 7-4.1.5 Construction Barricade
- 8-1.3.1 Ditch Checks, Mortar Rubble Masonry & Sod
- 13-1.1.1 Maintenance Crossover for Freeways

1. The Reference Line (R) is The Median Edge of the Northbound Pavement.
2. When The Quantity of The Items of Or Surface Course Is Measured For Payment By The Ton Or Cubic Yard, The Depth Or Thickness Of The Course Shown On The Plans Is Approximate And The Actual Thickness Will Depend On The Distribution Of The Material Directed By The Engineer.
3. Items Shown On The Plans But Not included In The Estimate Of Quantities Or Miscellaneous Quantities Are Not Part Of This Contract.
4. The Exact Location Of Private Entrances Is To Be Determined In The Field By The Engineer
5. 3" Bituminous Concrete, Where Indicated On The Plans, Shall Consist Of 1-3/4" Binder Course And 1-1/4" Surface Course.
6. Shrinkage Is Variable And Estimated At 15% For Embankment And 25% For Marsh Backfill.

GENERAL NOTES

7. All The Right Of Way, Exclusive Of The Roadbed And Areas Already Covered With Suitable Grasses, Shall Be Fertilized And Seeded.
8. The Shoulder Gravel Adjacent to Bituminous Concrete Shoulders Shall Not Be Placed Until After The Bituminous Concrete Pavement Has Been Laid.
9. Salvaged Topsoil To Be Placed As Directed By Plans To An Approximate Depth of 4" At Time Of Placing.
10. Where 5" Bituminous Concrete Is Indicated On The Plans, It Shall Be Constructed As Follows: 3-3/4" Binder (2-Courses) And 1-1/4" Surface Course.

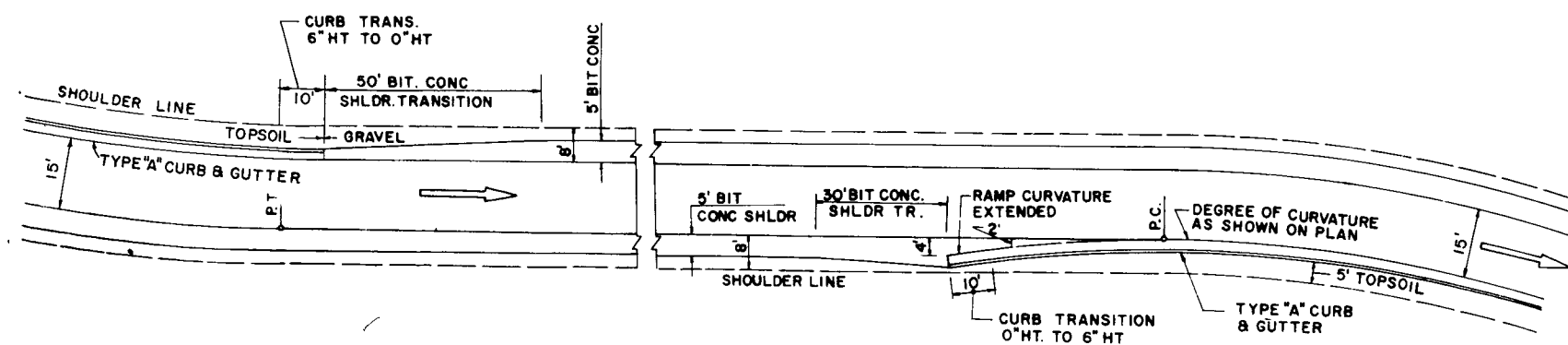
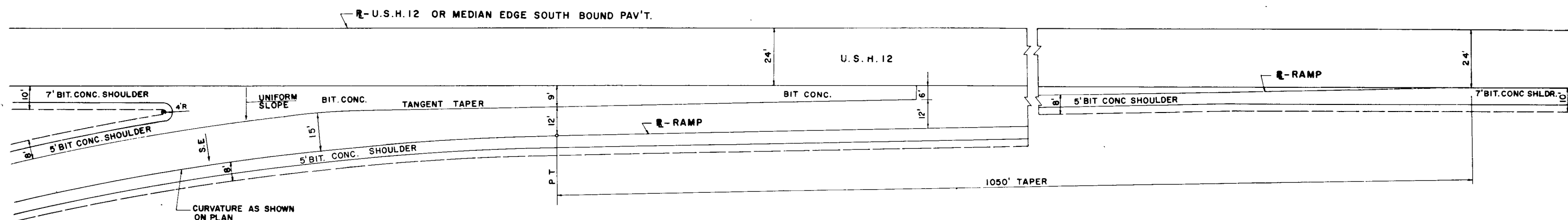
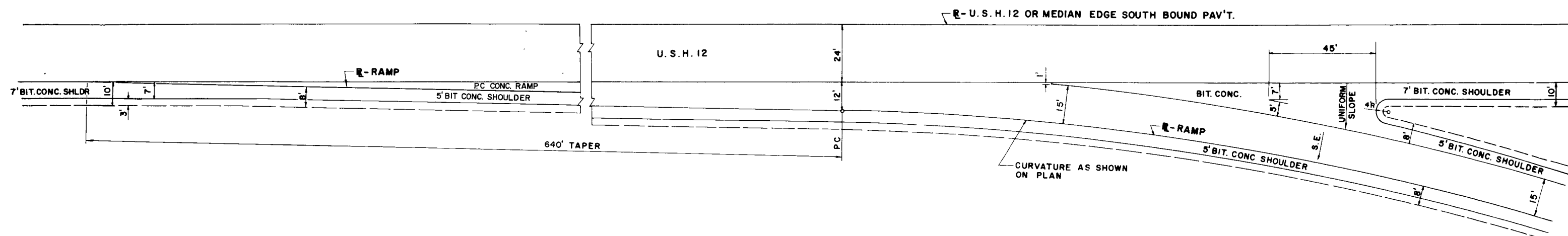
**TYPICAL CROSS SECTIONS
FOR
RAMPS AND WIDENED MEDIAN
GENOA CITY-ELKHORN ROAD**

U. S. H. 12

WALWORTH COUNTY

B P R DIVISION	PROJECT	SHEET NO	TOTAL SHEET
4	F04-1(21)	2.5	41

1081-2-81.82



CONSTRUCTION DETAILS FOR INTERCHANGE RAMPS

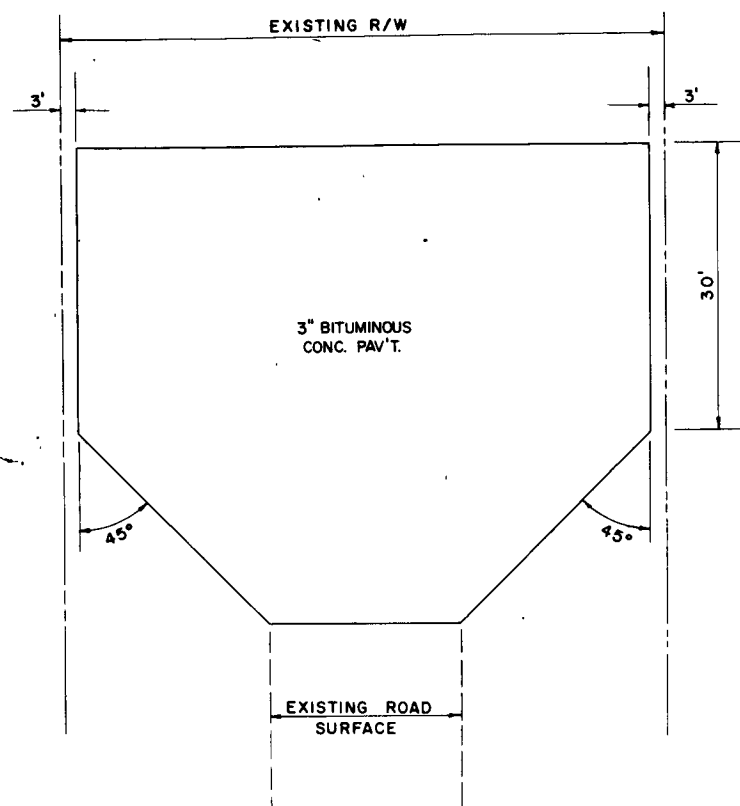
GENOA CITY-ELKHORN ROAD

U. S. H. 12

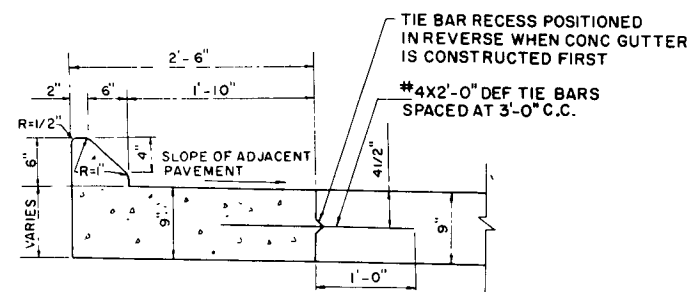
WALWORTH COUNTY

S.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	26	41

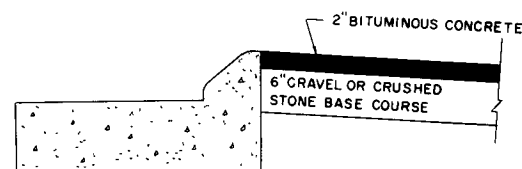
1081-2-81,82



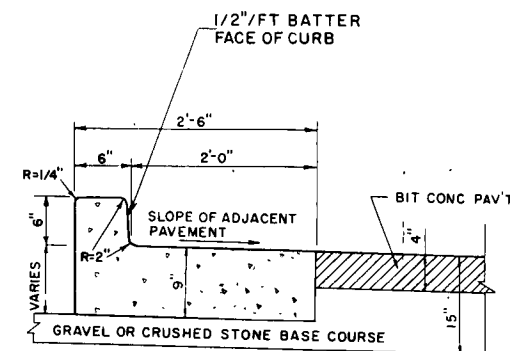
TYPICAL CUL-DE-SAC DETAILS
FOR KRUEGER ROAD



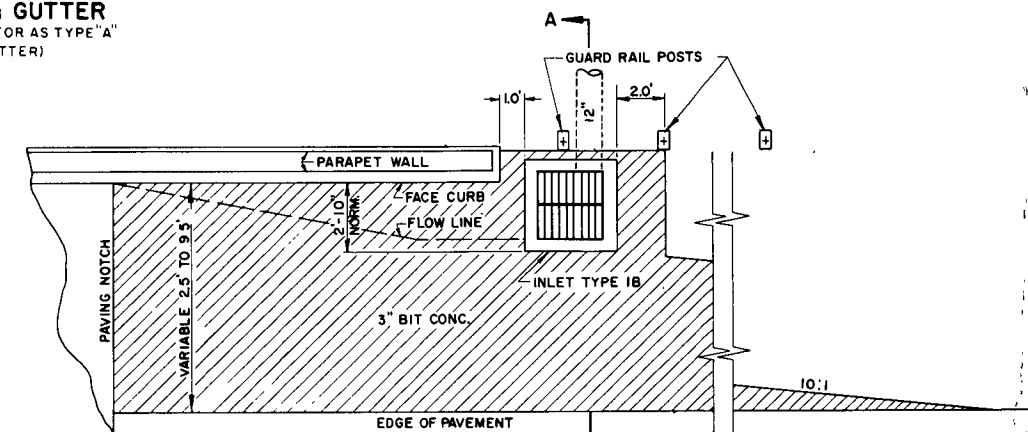
TYPE "G" (MODIFIED)
CONCRETE CURB & GUTTER
(TO BE MEASURED AND PAID FOR AS TYPE "G"
CONCRETE CURB & GUTTER)



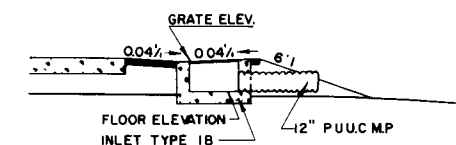
ISLAND DETAILS



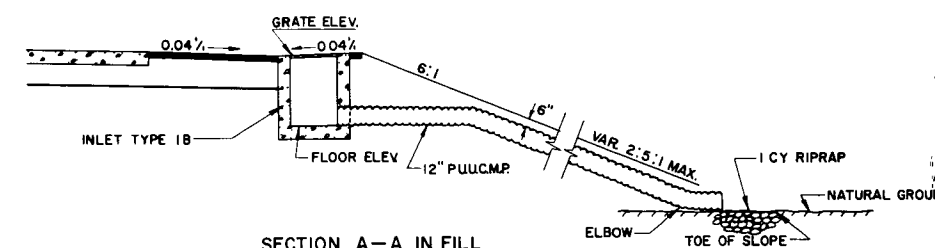
TYPE "A" (MODIFIED)
CONCRETE CURB & GUTTER
(TO BE MEASURED AND PAID FOR AS TYPE "A"
CONCRETE CURB & GUTTER)



PLAN VIEW



SECTION A-A IN CUT



SECTION A-A IN FILL

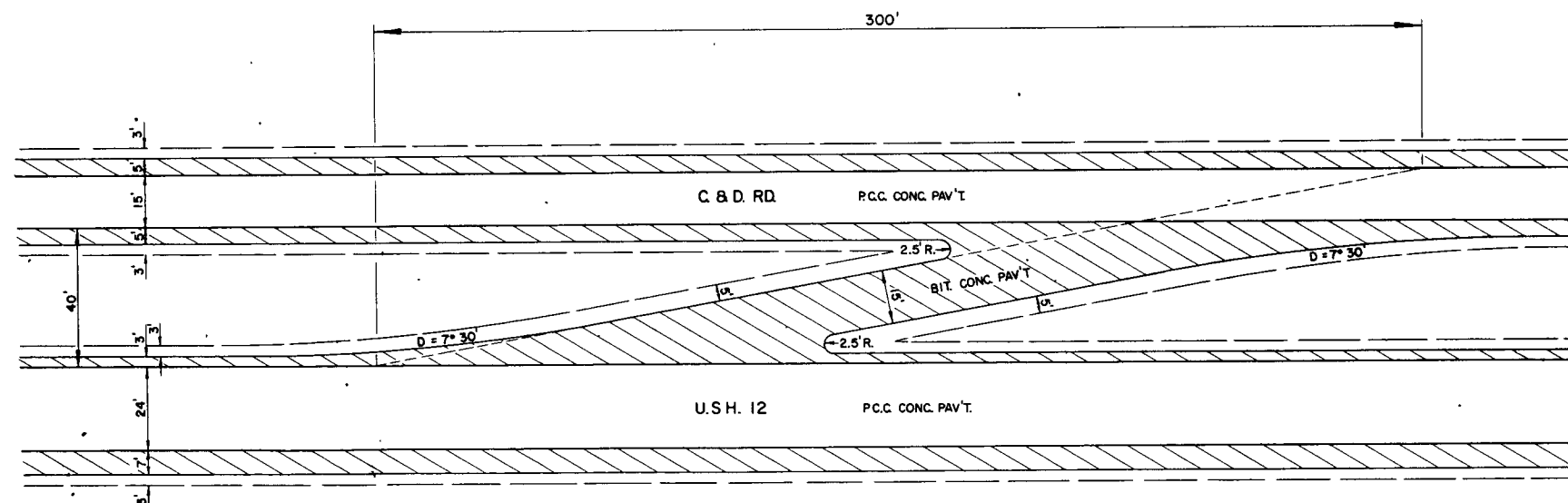
DETAIL OF BRIDGE APPROACH INLET

CONSTRUCTION DETAILS
FOR

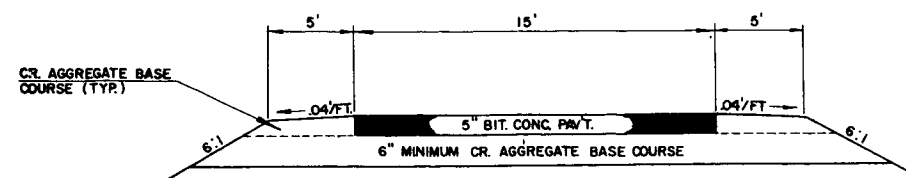
GENOA CITY-ELKHORN ROAD

U. S. H. 12

WALWORTH COUNTY



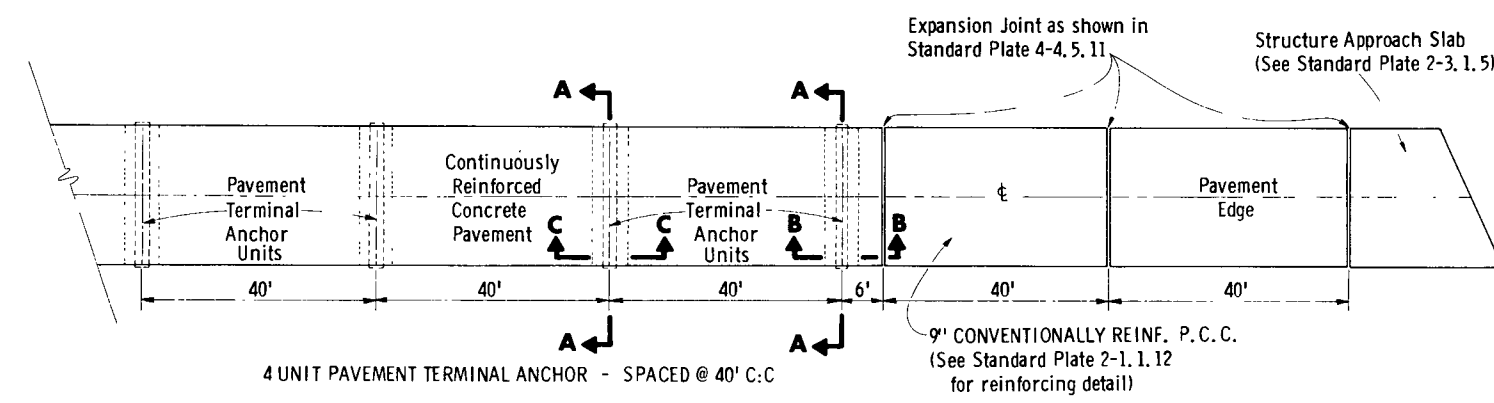
TEMPORARY CROSS-OVER PLAN DETAIL
NOT TO SCALE



TYPICAL TEMPORARY CROSS-OVER SECTION (TO BE REMOVED)

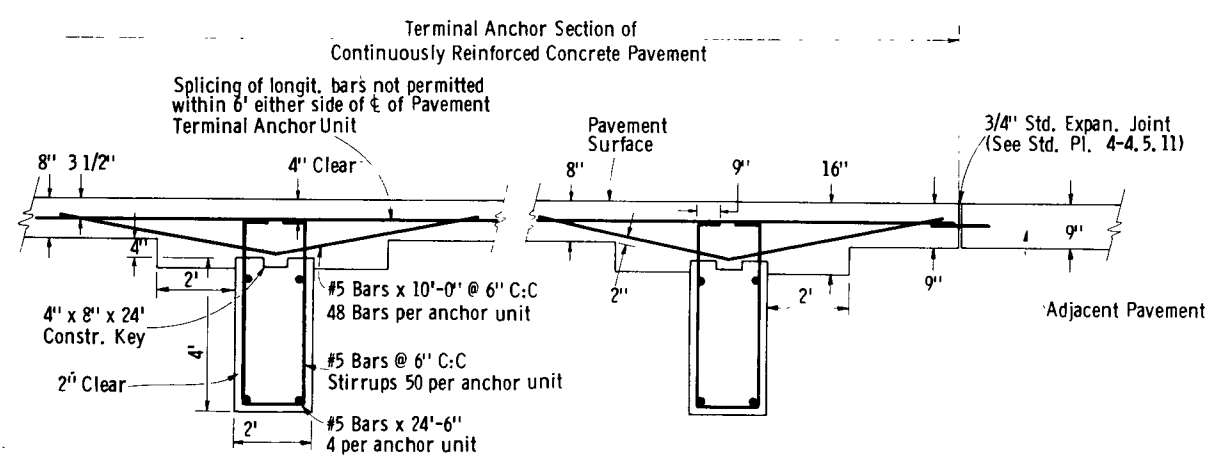
TO ————

PROJECT NO.	1081-2-8182	SHEET NUMBER	2.7	TOTAL SHEETS	41
FEDERAL PROJECT DESIGNATION	F 04-1(21)				
DETAILS FOR CONTINUOUSLY REINFORCED CONCRETE PAVEMENT					



4 UNIT PAVEMENT TERMINAL ANCHOR - SPACED @ 40' C.C.

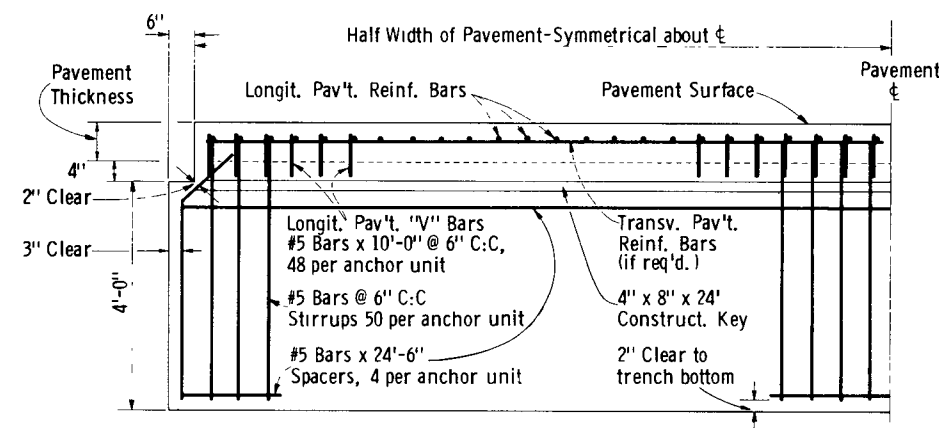
PAVEMENT TERMINAL ANCHOR



SECTION C-C

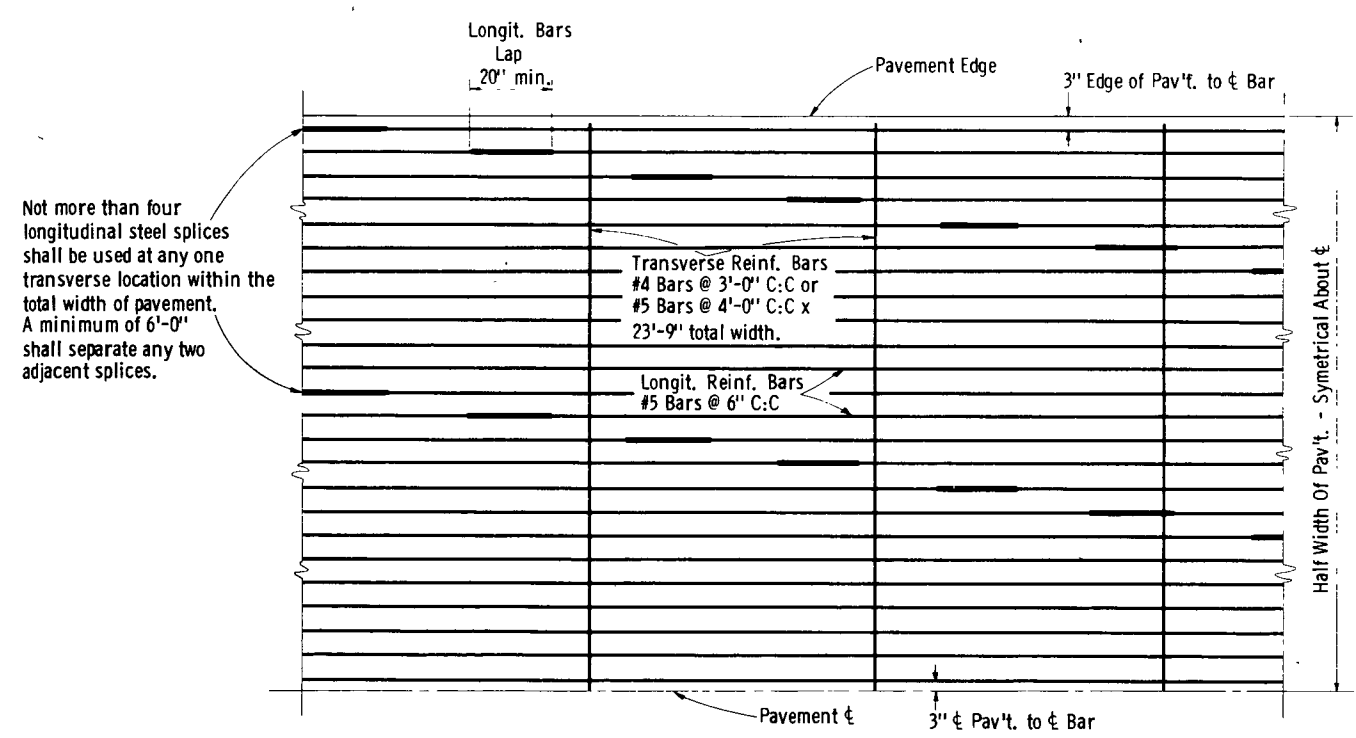
SIDE ELEVATION

SECTION B-B



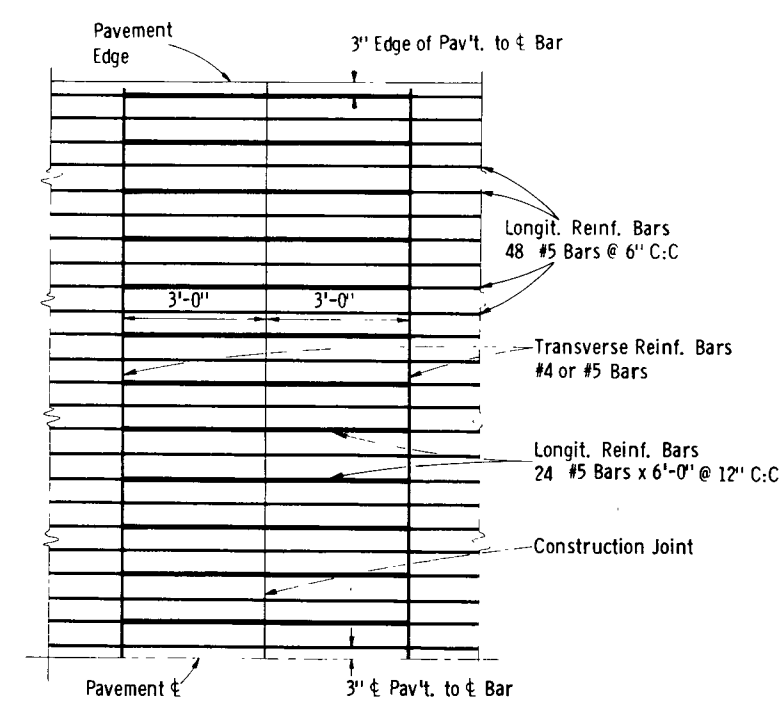
SECTION A-A

PAVEMENT TERMINAL ANCHOR UNIT DETAILS



Not more than four longitudinal steel splices shall be used at any one transverse location within the total width of pavement. A minimum of 6'-0' shall separate any two adjacent splices.

REINFORCEMENT STEEL PLACEMENT
TOTAL WIDTH CONSTRUCTION

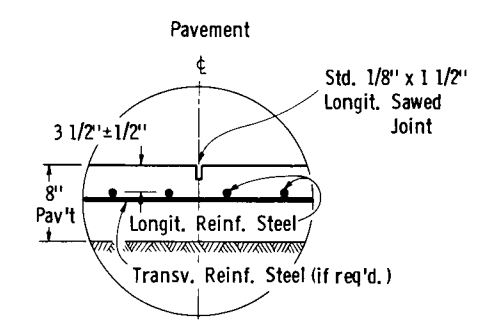


CONSTRUCTION JOINT
PLAN VIEW
(Half Width of Pavement)

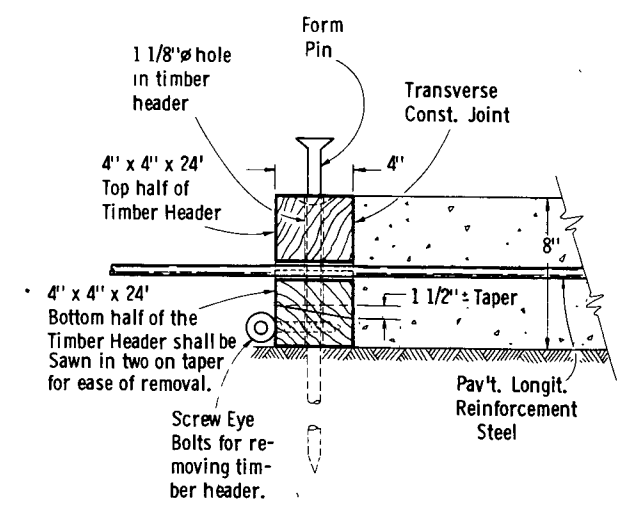
GENERAL NOTES

The Bid Item "Pavement Terminal Anchor" shall include the total quantities of concrete and reinforcing steel, including the "V" shaped bent bars, extending below the normal 8" concrete pavement used in the four terminal anchor units necessary to terminate continuously reinforced concrete pavements.

Transverse reinforcing bars may be omitted if the longitudinal reinforcing bars can be accurately placed and held there during the placing and setting of the concrete by devices or methods approved by the Engineer. In the case that transverse reinforcing bars are eliminated, longitudinal joint tie bars shall be accurately installed according to Standard Plate 4-4.4.8, except that tie bars may be placed either above or below the longitudinal reinforcing bars.

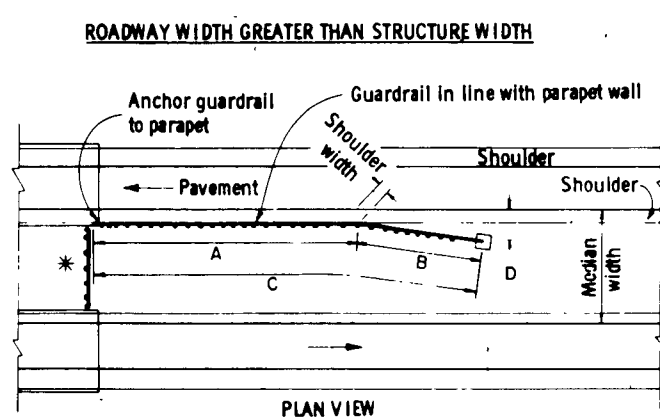
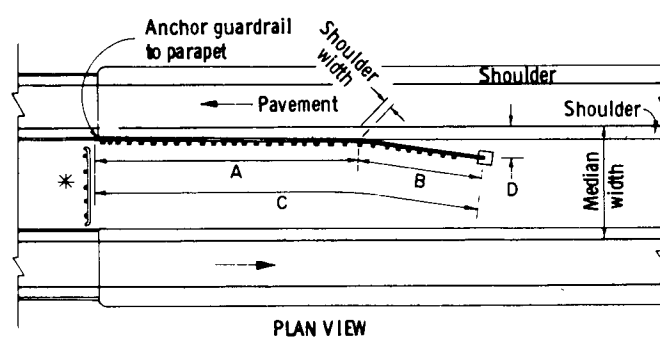
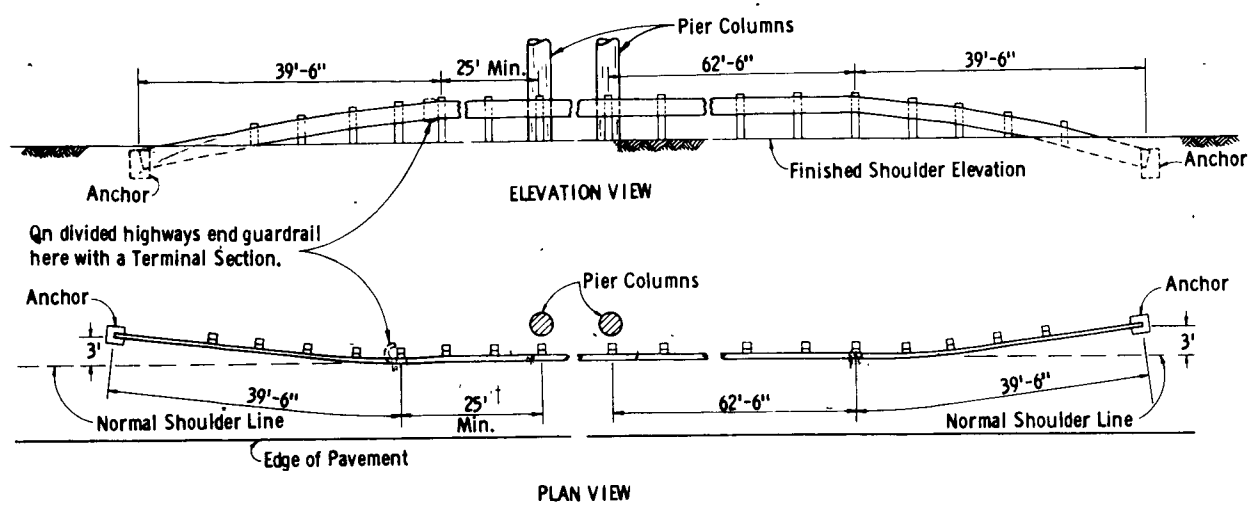


LONGITUDINAL JOINT DETAILS TOTAL WIDTH CONSTRUCTION



DETAILS OF SPLIT TIMBER TYPE HEADER TO BE USED AT CONSTRUCTION JOINTS

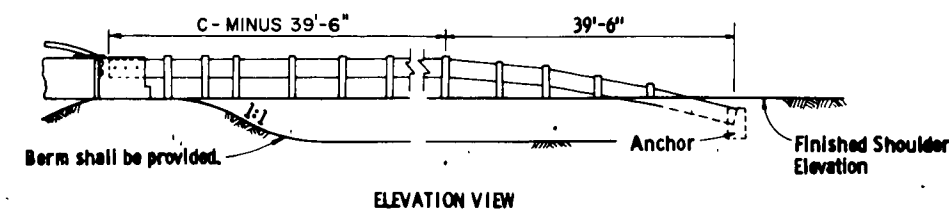
Note: Alternate Type Header installations may be used upon written approval of the Engineer.



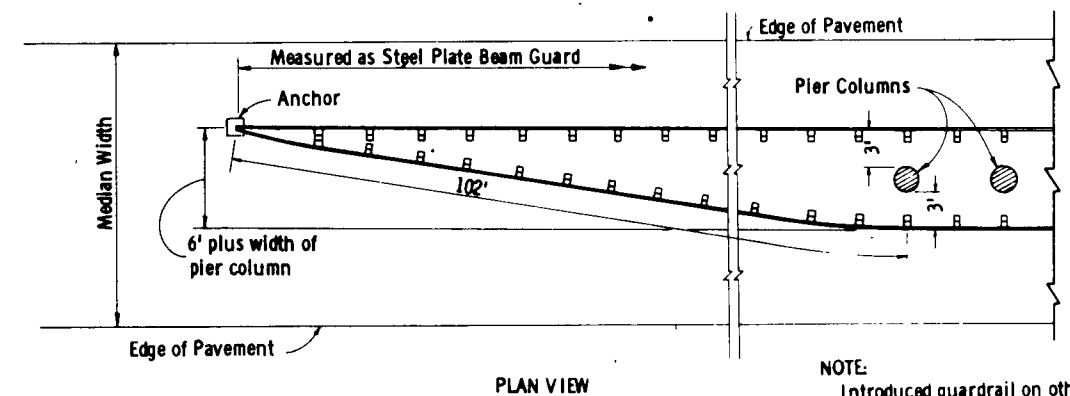
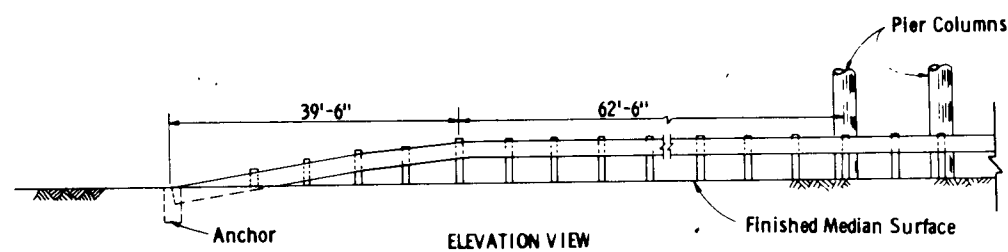
STRUCTURE	A	B	C	D
B-64-41	201	177	378	20
B-64-42	201	102	303	14
B-64-43	201	102	303	14
B-64-44	201	102	303	14
B-64-46	201	102	303	14
B-64-47	201	177	378	20
B-64-32	201	102	303	14
B-64-33	201	102	303	14
B-64-35	138	65	203	14
B-64-36	225	65	290	14

BPR REGION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	2.8	41

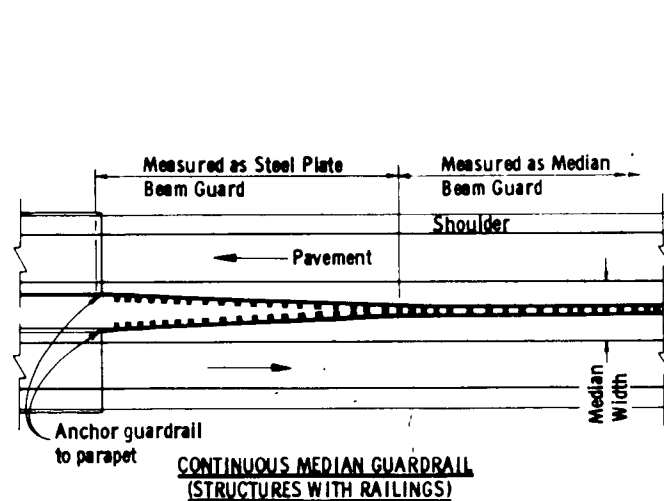
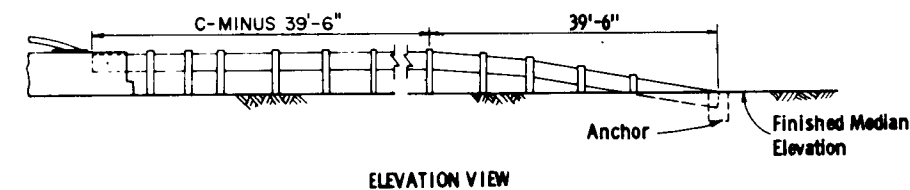
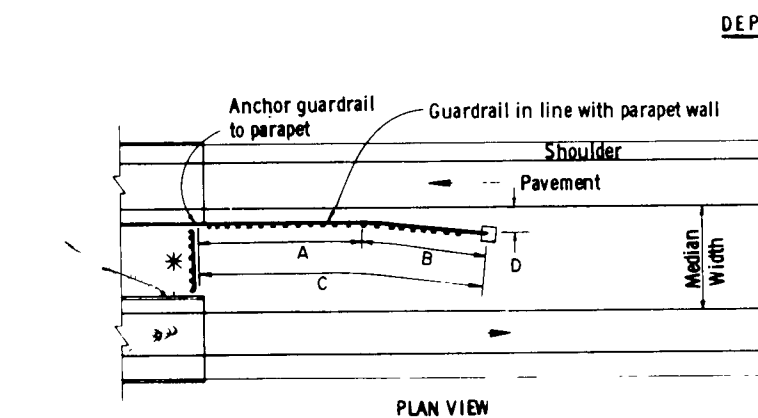
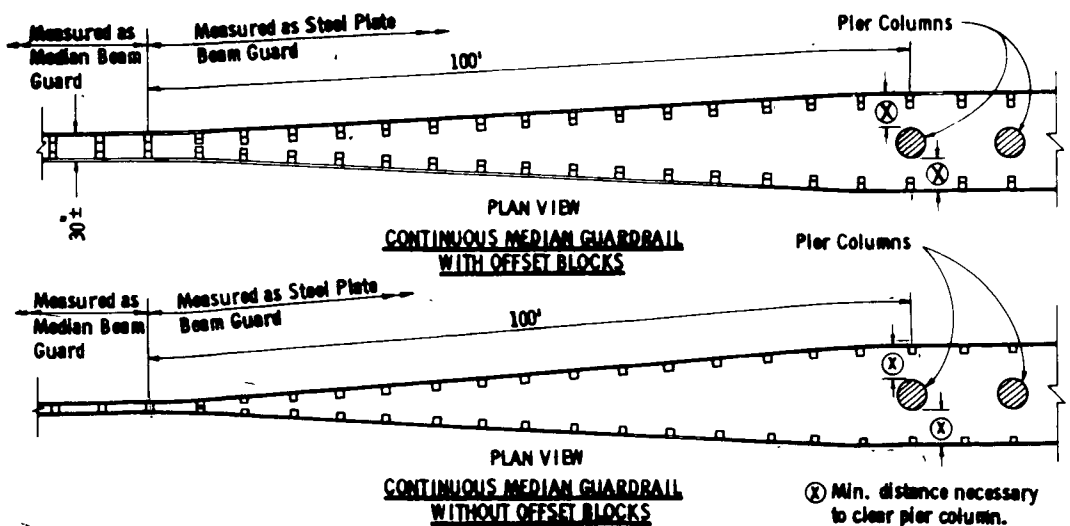
1081-2-81,82



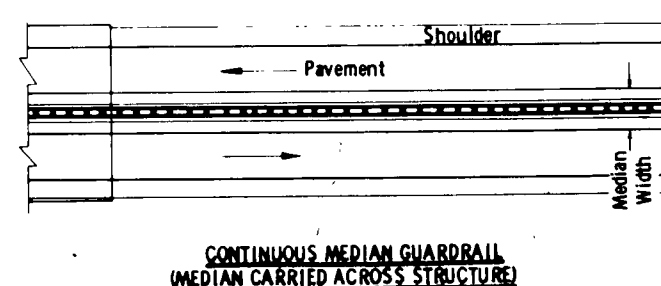
* Place fence behind guardrail if fencing is required. Top of fence and guardrail shall be at the same elevation. Guardrail between the structures shall have 6'-3" post spacing with Terminal End Sections.



NOTE: Introduced guardrail on other side of structure identical but curved in reverse direction.



RAISED MEDIAN



TYPICAL INSTALLATION AT OVERPASS STRUCTURES

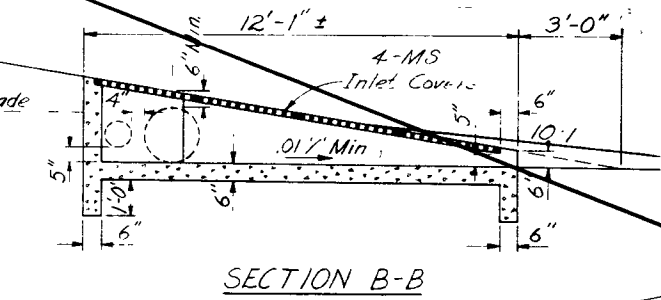
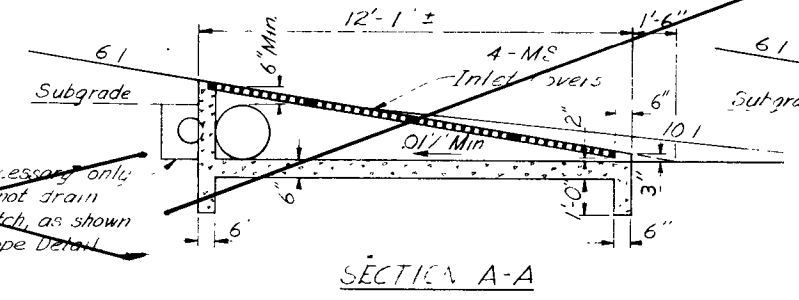
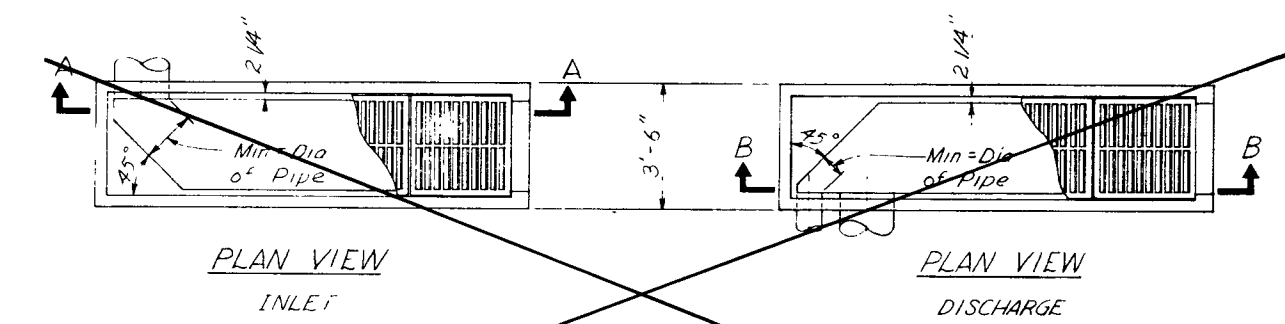
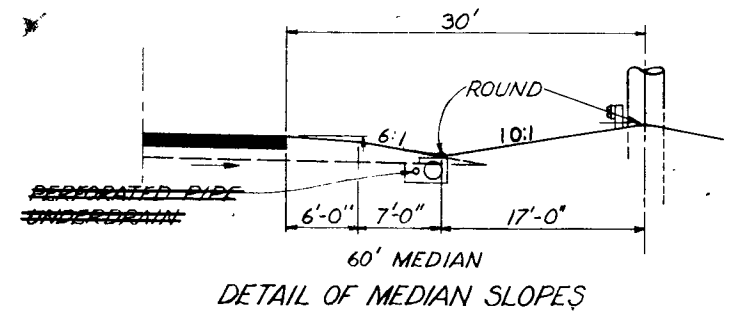
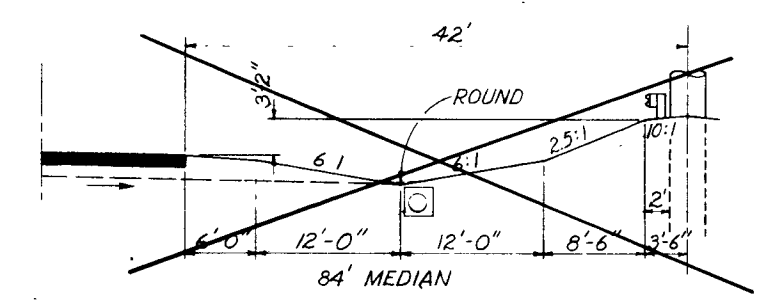
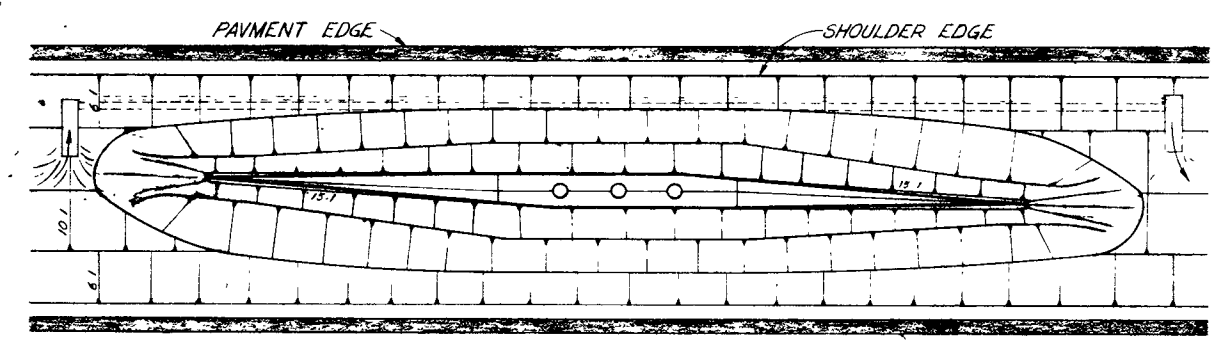
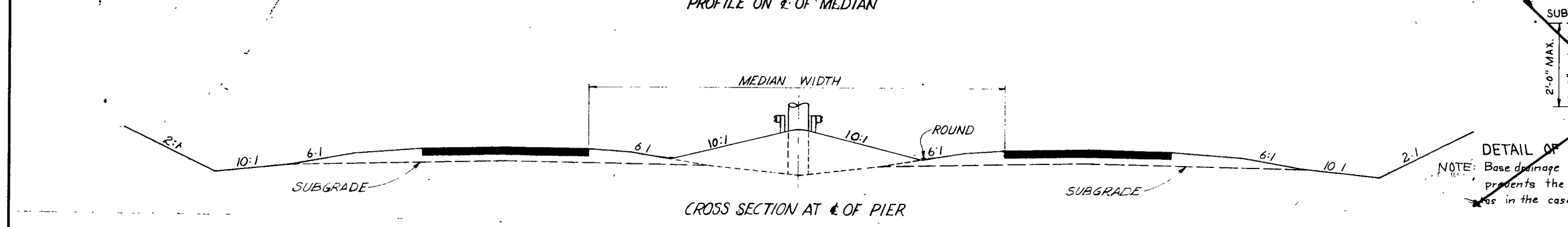
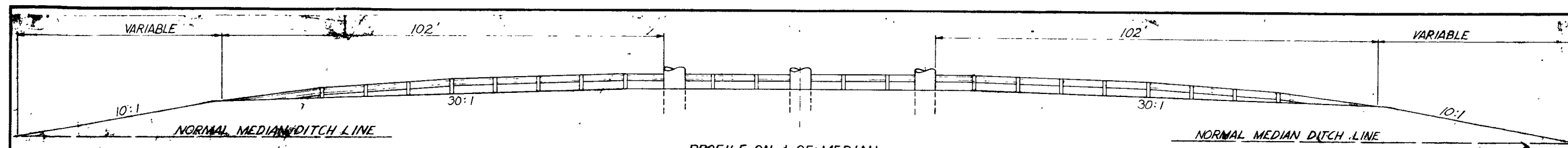
GENERAL NOTES

Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications, Applicable Special Provisions, and the Standard Detail Drawing for Steel Plate Beam Guard and Steel Plate Beam (Median) Guard.

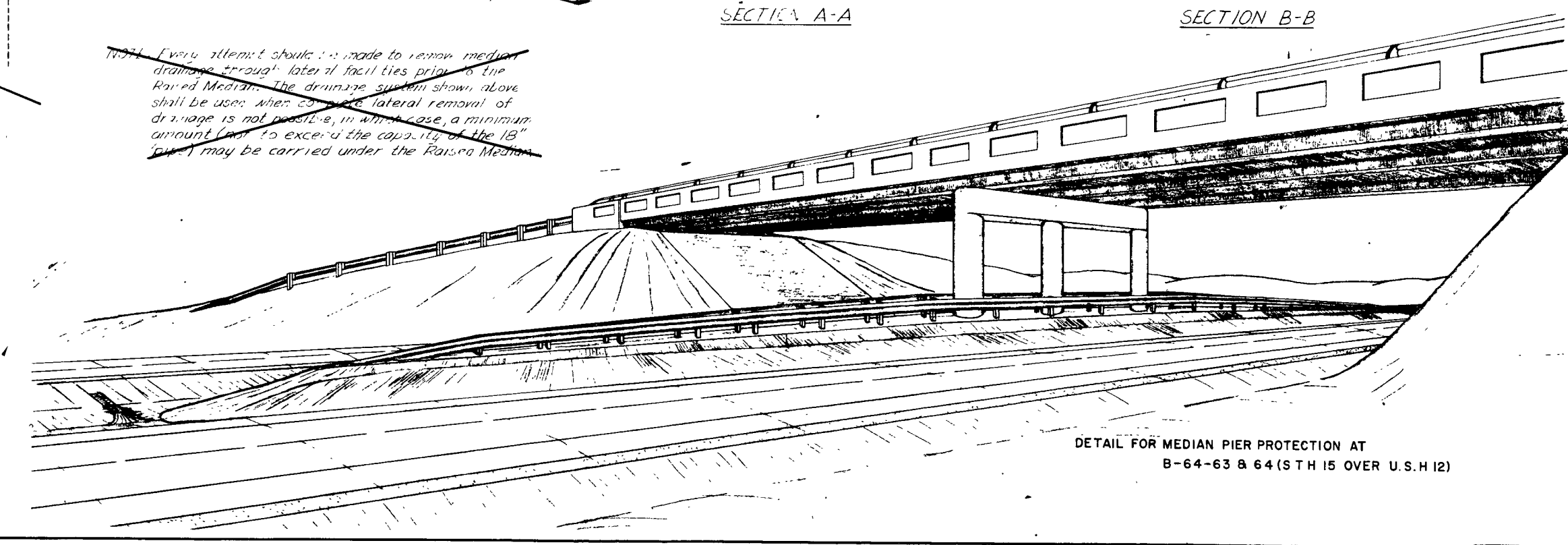
Post-Footing Detail at Piers shall be used when guardrail posts are over structure footings and less than 3'-6" of earth is provided over the top of the footing.

DETAILS FOR STEEL PLATE BEAM GUARD AND STEEL PLATE BEAM (MEDIAN) GUARD

PROJECT NO	1081-2-82	SHEET NUMBER	2.9	TOTAL SHEETS	41
FEDERAL PROJECT DESIGNATION	F 04-1(21)				
RAISED MEDIAN AT UNDERPASSES					



NOTE: Every attempt should be made to remove median drainage through lateral facilities prior to the Raised Median. The drainage system shown above shall be used when complete lateral removal of drainage is not possible, in which case, a minimum amount (not to exceed the capacity of the 18" pipe) may be carried under the Raised Median.



PROJECT	SHEET NUMBER	TOTAL SHEETS
F04-1(21)	2.27	41

1081-2-82

NOTE:
S.T.H. 15 IS NOT TO BE PAVED
UNDER THIS CONTRACT

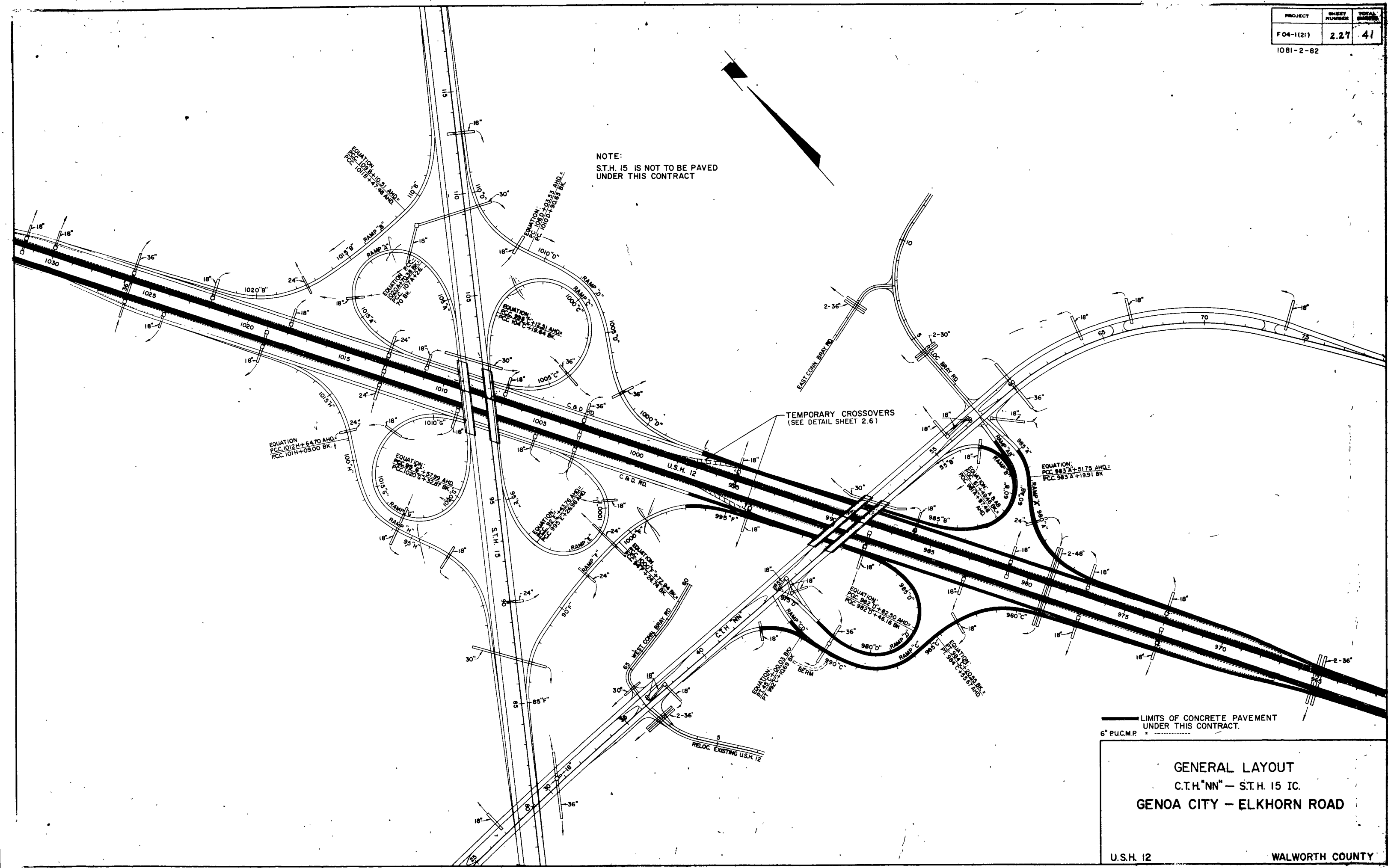
TEMPORARY CROSSOVERS
(SEE DETAIL SHEET 2.6)

— LIMITS OF CONCRETE PAVEMENT
UNDER THIS CONTRACT.
6" P.U.C.M.P.

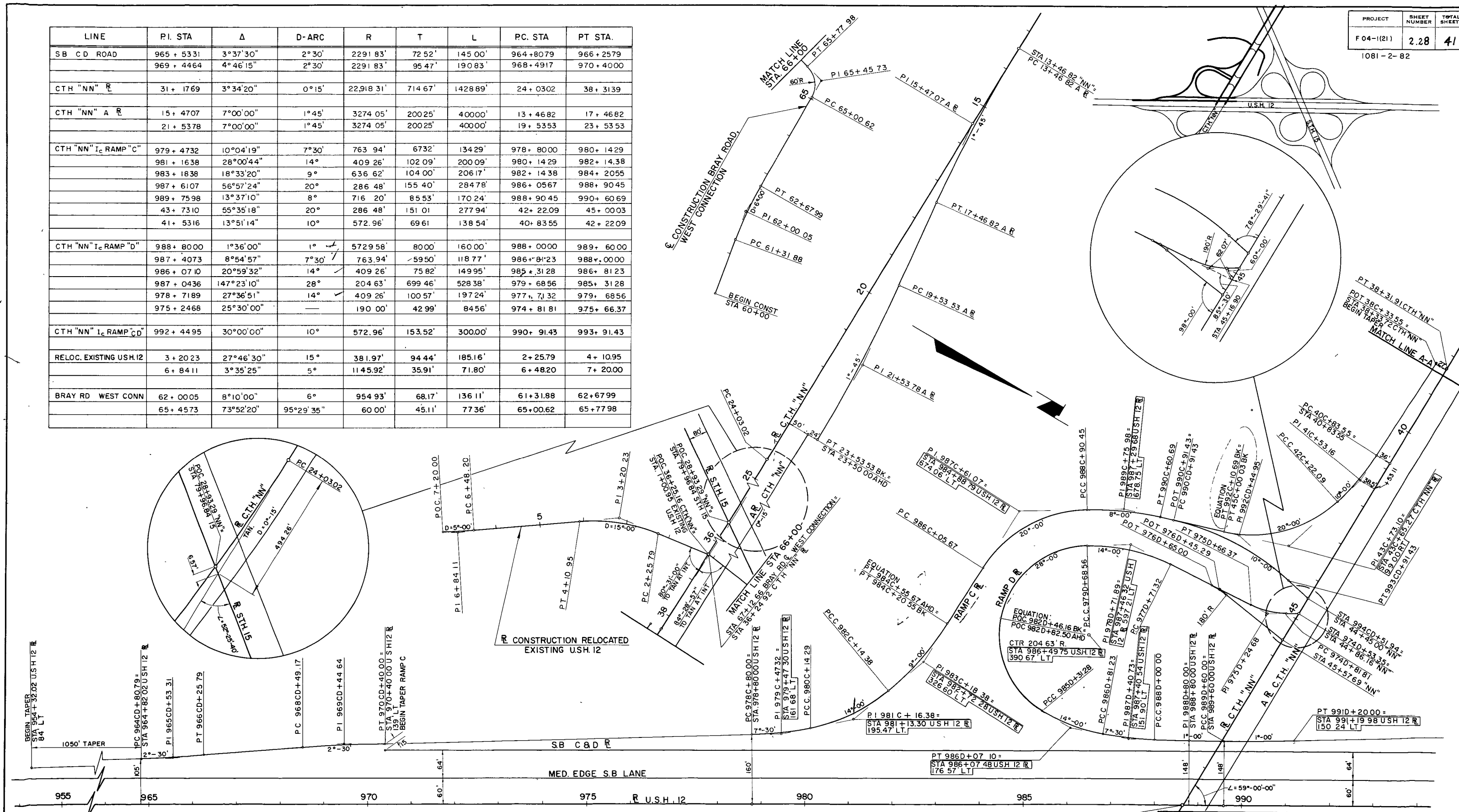
GENERAL LAYOUT
C.T.H. "NN" - S.T.H. 15 IC.
GENOA CITY - ELKHORN ROAD

U.S.H. 12

WALWORTH COUNTY

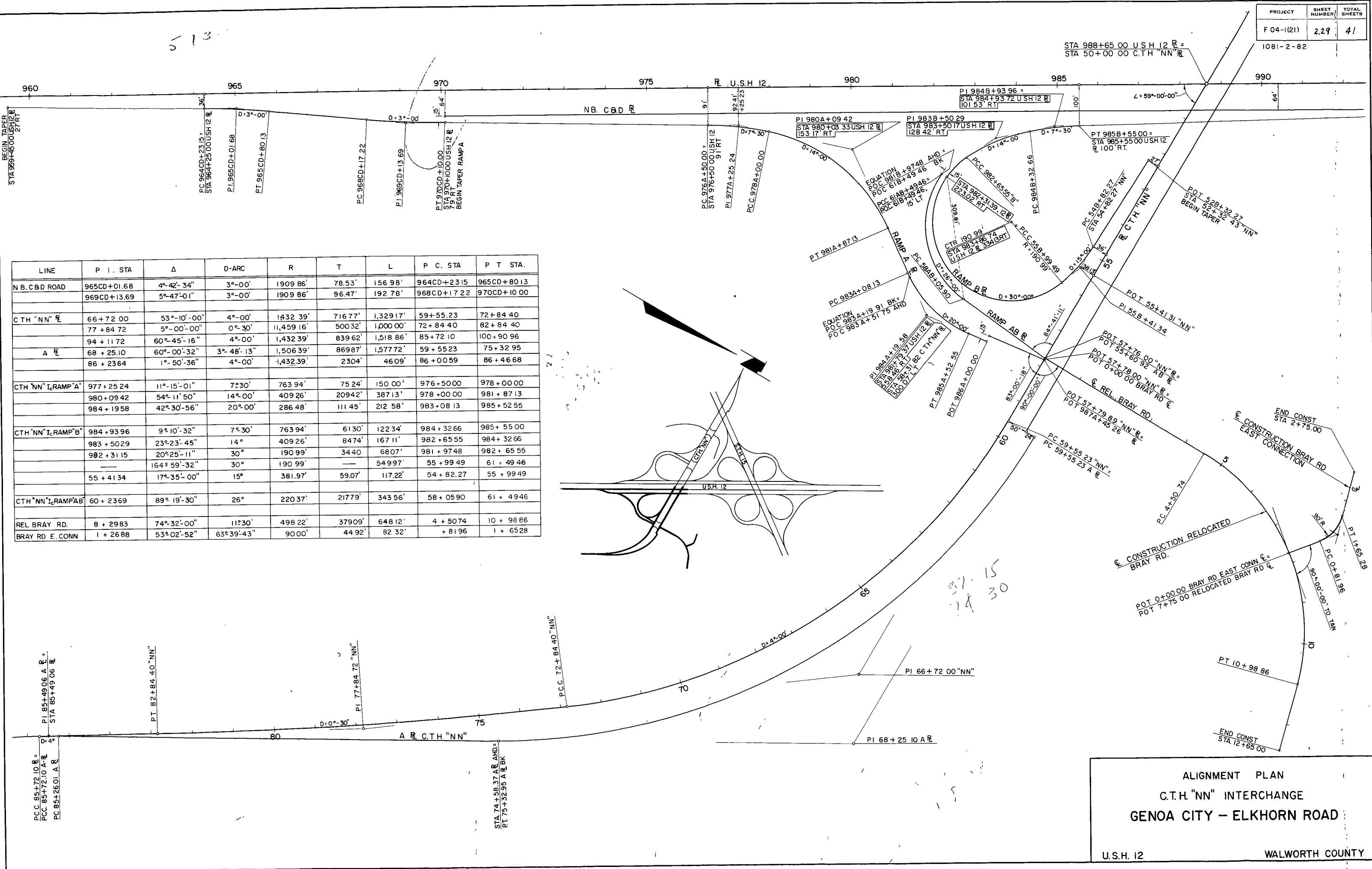


LINE	P.I. STA	Δ	D-ARC	R	T	L	PC. STA	PT. STA
SB CD ROAD	965 + 5331	3°37'30"	2°30'	2291.83'	72.52'	145.00'	964+8079	966+2579
	969 + 4464	4°46'15"	2°30'	2291.83'	95.47'	190.83'	968+4917	970+4000
CTH "NN" R	31 + 1769	3°34'20"	0°15'	22,918.31'	714.67'	1428.89'	24 + 0302	38 + 3139
CTH "NN" A R	15 + 4707	7°00'00"	1°45'	3274.05'	200.25'	400.00'	13 + 4682	17 + 4682
	21 + 5378	7°00'00"	1°45'	3274.05'	200.25'	400.00'	19 + 5353	23 + 5353
CTH "NN" I _c RAMP "C"	979 + 4732	10°04'19"	7°30'	763.94'	6732'	134.29'	978 + 8000	980 + 1429
	981 + 1638	28°00'44"	14°	409.26'	102.09'	200.09'	980 + 1429	982 + 1438
	983 + 1838	18°33'20"	9°	636.62'	104.00'	206.17'	982 + 1438	984 + 2055
	987 + 6107	56°57'24"	20°	286.48'	155.40'	284.78'	986 + 0567	988 + 9045
	989 + 7598	13°37'10"	8°	716.20'	85.53'	170.24'	988 + 9045	990 + 6069
	43 + 7310	55°35'18"	20°	286.48'	151.01'	277.94'	42 + 2209	45 + 0003
	41 + 5316	13°51'14"	10°	572.96'	69.61'	138.54'	40 + 8355	42 + 2209
CTH "NN" I _c RAMP "D"	988 + 8000	1°36'00"	1°	572.958'	80.00'	160.00'	988 + 0000	989 + 6000
	987 + 4073	8°54'57"	7°30'	763.94'	59.50'	118.77'	986 + 8123	988 + 0000
	986 + 0710	20°59'32"	14°	409.26'	75.82'	149.95'	985 + 3128	986 + 8123
	987 + 0436	147°23'10"	28°	204.63'	699.46'	528.38'	979 + 6856	985 + 3128
	978 + 7189	27°36'51"	14°	409.26'	100.57'	197.24'	977 + 7132	979 + 6856
	975 + 2468	25°30'00"	—	190.00'	42.99'	84.56'	974 + 8181	975 + 6637
CTH "NN" I _c RAMP "D"	992 + 4495	30°00'00"	10°	572.96'	153.52'	300.00'	990 + 9143	993 + 9143
RELOC. EXISTING U.S.H. 12	3 + 2023	27°46'30"	15°	381.97'	94.44'	185.16'	2 + 2579	4 + 1095
	6 + 8411	3°35'25"	5°	1145.92'	35.91'	71.80'	6 + 4820	7 + 2000
BRAY RD WEST CONN	62 + 0005	8°10'00"	6°	954.93'	68.17'	136.11'	61 + 31.88	62 + 6799
	65 + 4573	73°52'20"	95°29'35"	60.00'	45.11'	77.36'	65 + 00.62	65 + 7798



ALIGNMENT PLAN
C.T.H. "NN" INTERCHANGE
GENOA CITY - ELKHORN ROAD
U.S.H. 12
WALWORTH COUNTY

PROJECT	SHEET NUMBER	TOTAL SHEETS
F 04-1(21)	2.29	41



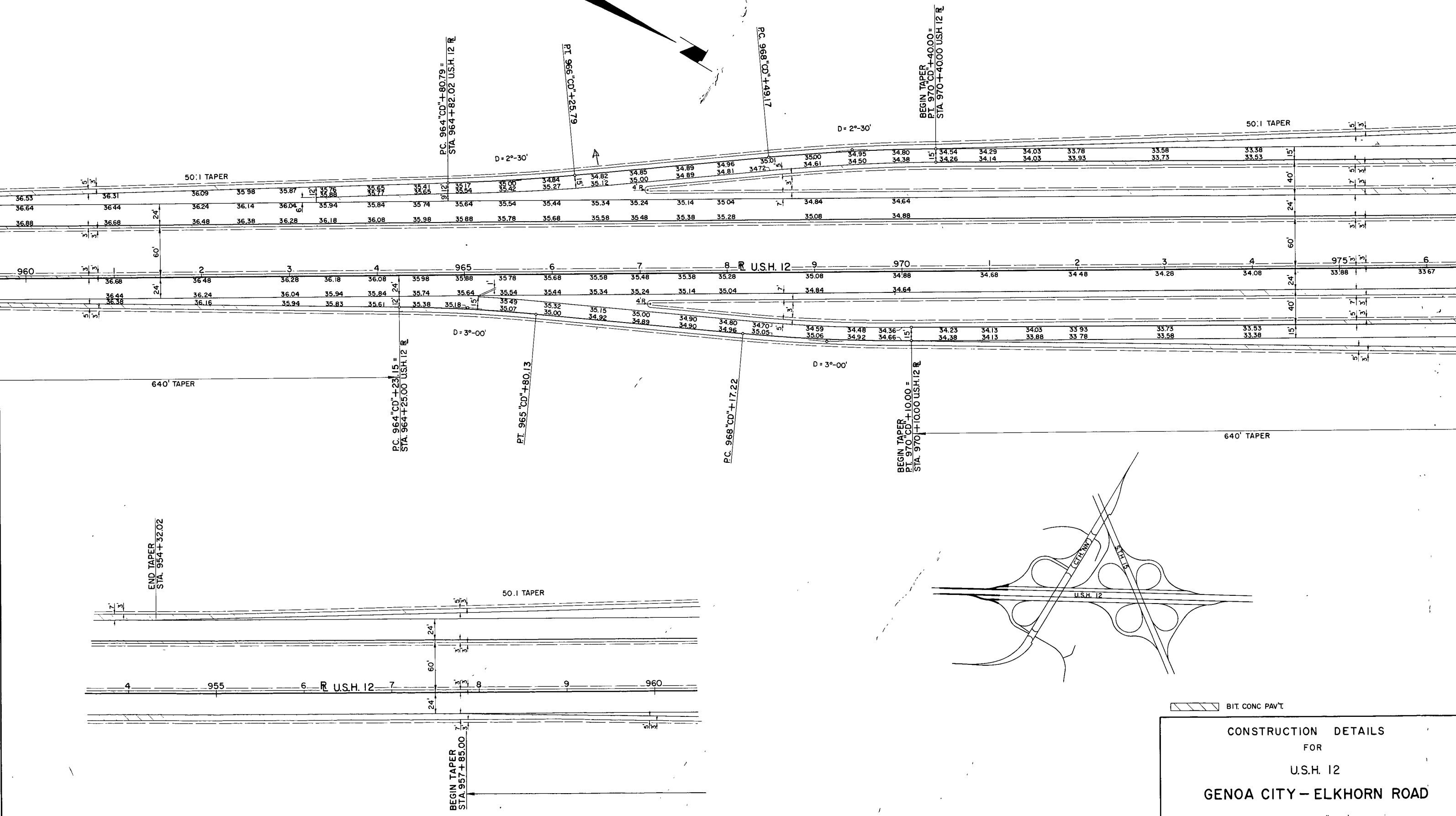
LINE	P I. STA	Δ	D-ARC	R	T	L	P C. STA	P T STA.
NB. C&D ROAD	965CD+01.68	$4^\circ 42' 34''$	$3^\circ 00'$	1909.86'	78.53'	156.98'	964CD+23.15	965CD+80.13
	969CD+13.69	$5^\circ 47' 01''$	$3^\circ 00'$	1909.86'	96.47'	192.78'	968CD+17.22	970CD+10.00
CTH "NN" R	66+72.00	$53^\circ 10' 00''$	$4^\circ 00'$	1432.39'	716.77'	1329.17'	59+55.23	72+84.40
	77+84.72	$5^\circ 00' 00''$	$0^\circ 30'$	11,459.16'	500.32'	1,000.00'	72+84.40	82+84.40
A R	94+11.72	$60^\circ 45' 16''$	$4^\circ 00'$	1,432.39'	839.62'	1,518.86'	85+72.10	100+90.96
	68+25.10	$60^\circ 00' 32''$	$3^\circ 48' 13''$	1,506.39'	869.87'	1,577.72'	59+55.23	75+32.95
	86+23.64	$1^\circ 50' 36''$	$4^\circ 00'$	1,432.39'	230.4'	460.9'	86+00.59	86+46.68
CTH "NN" I. RAMP "A"	977+25.24	$11^\circ 15' 01''$	$7^\circ 30'$	763.94'	75.24'	150.00'	976+50.00	978+00.00
	980+09.42	$54^\circ 11' 50''$	$14^\circ 00'$	409.26'	209.42'	387.13'	978+00.00	981+87.13
	984+19.58	$42^\circ 30' 56''$	$20^\circ 00'$	286.48'	111.45'	212.58'	983+08.13	985+52.55
CTH "NN" I. RAMP "B"	984+93.96	$9^\circ 10' 32''$	$7^\circ 30'$	763.94'	61.30'	122.34'	984+32.66	985+55.00
	983+50.29	$23^\circ 23' 45''$	14°	409.26'	84.74'	167.11'	982+65.55	984+32.66
	982+31.15	$20^\circ 25' 11''$	30°	190.99'	34.40'	68.07'	981+97.48	982+65.55
		$164^\circ 59' 32''$	30°	190.99'		54.997'	55+99.49	61+49.46
	55+41.34	$17^\circ 35' 00''$	15°	381.97'	59.07'	117.22'	54+82.27	55+99.49
CTH "NN" I. RAMP "AB"	60+23.69	$89^\circ 19' 30''$	26°	220.37'	217.79'	343.56'	58+05.90	61+49.46
REL BRAY RD.	8+29.83	$74^\circ 32' 00''$	$11^\circ 30'$	498.22'	379.09'	648.12'	4+50.74	10+98.86
BRAY RD E. CONN	1+26.88	$53^\circ 02' 52''$	$63^\circ 39' 43''$	90.00'	44.92'	82.32'	+81.96	1+65.28

ALIGNMENT PLAN
C.T.H. "NN" INTERCHANGE
GENOA CITY - ELKHORN ROAD
U.S.H. 12
WALWORTH COUNTY

NOTE: MAINLINE PAV'T. ELEVATIONS SHOWN ARE 1"
 ABOVE FINISHED GRADE - ADJUST ACCORDINGLY
 C-D ROAD PROFILE STA. 954+32 TO
 971+00 S.B. & STA. 975+85 TO STA 971+00 N.B.

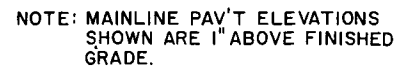
PROJECT	SHEET NUMBER	TOTAL SHEETS
F 04-1(21)	2.31	41

1081-2-82



BIT. CONC. PAV'T.
 CONSTRUCTION DETAILS
 FOR
 U.S.H. 12
 GENOA CITY - ELKHORN ROAD
 SCALE 1" = 50'
 U.S.H. 12
 WALWORTH COUNTY

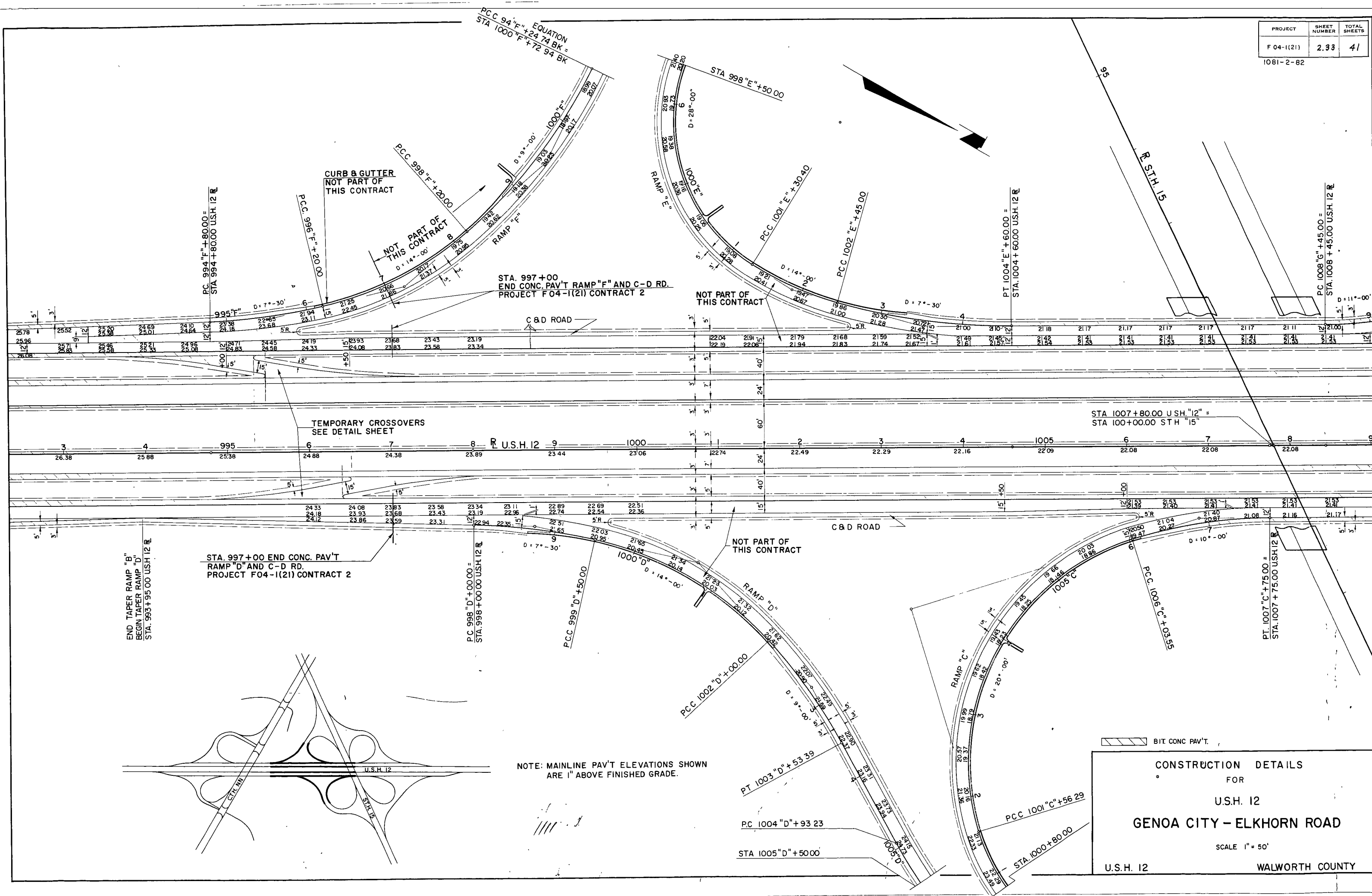
02 - 04 - 05 - 09



WALWORTH COUNTY

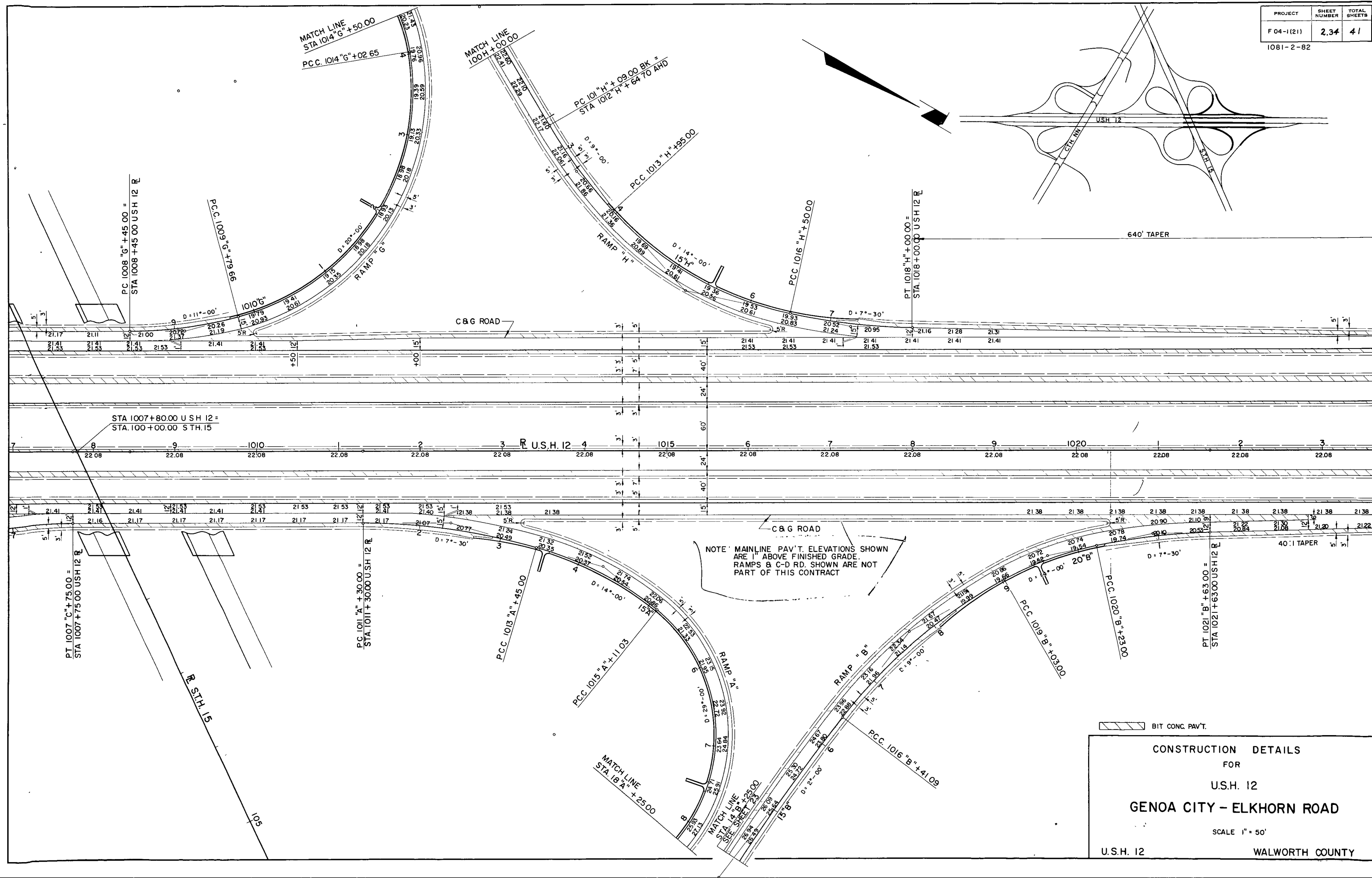
PROJECT	SHEET NUMBER	TOTAL SHEETS
F 04-1(21)	2.33	41

1081-2-82



PROJECT	SHEET NUMBER	TOTAL SHEETS
F 04-1(21)	2.34	41

1081-2-82

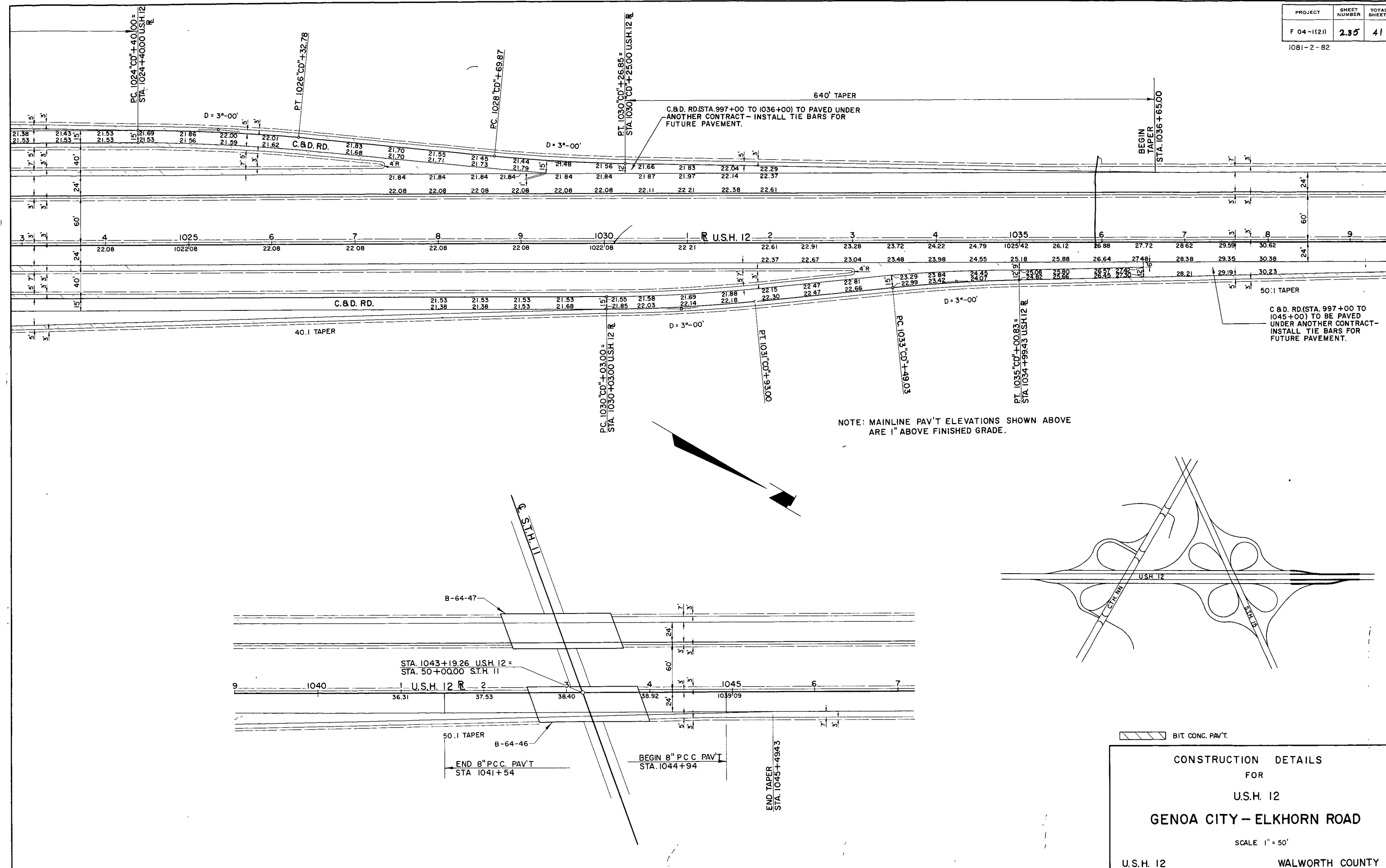


BIT CONC. PAV'T.

CONSTRUCTION DETAILS
FOR
U.S.H. 12
GENOA CITY - ELKHORN ROAD
SCALE 1" = 50'
U.S.H. 12 WALWORTH COUNTY

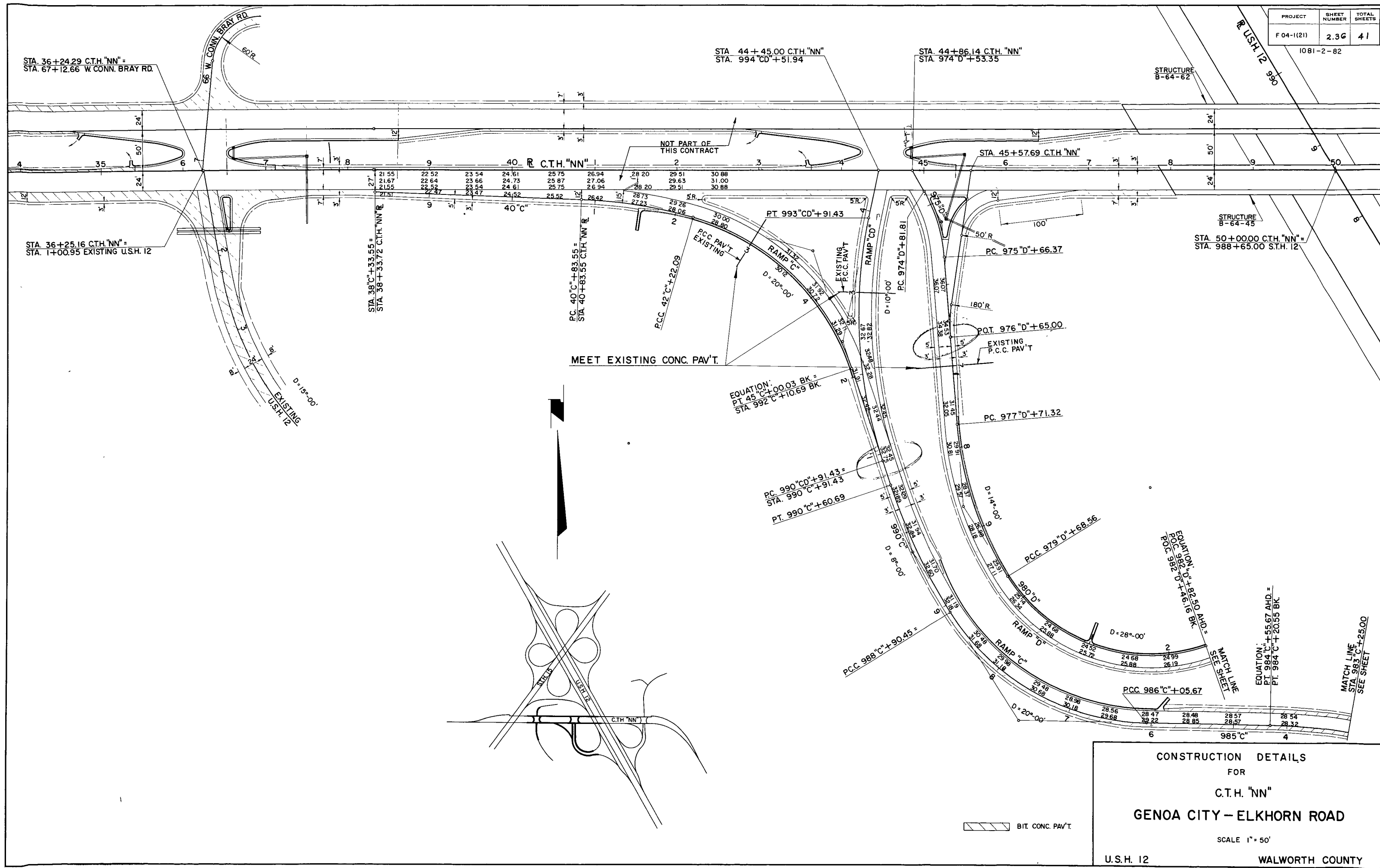
PROJECT	SHEET NUMBER	TOTAL SHEETS
F 04-(121)	235	41

1081-2-82



PROJECT	SHEET NUMBER	TOTAL SHEETS
F 04-1(21)	2.36	41

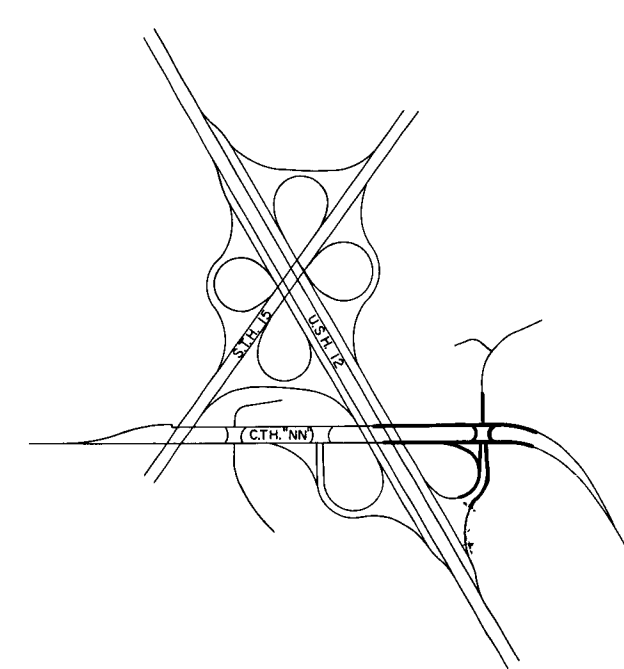
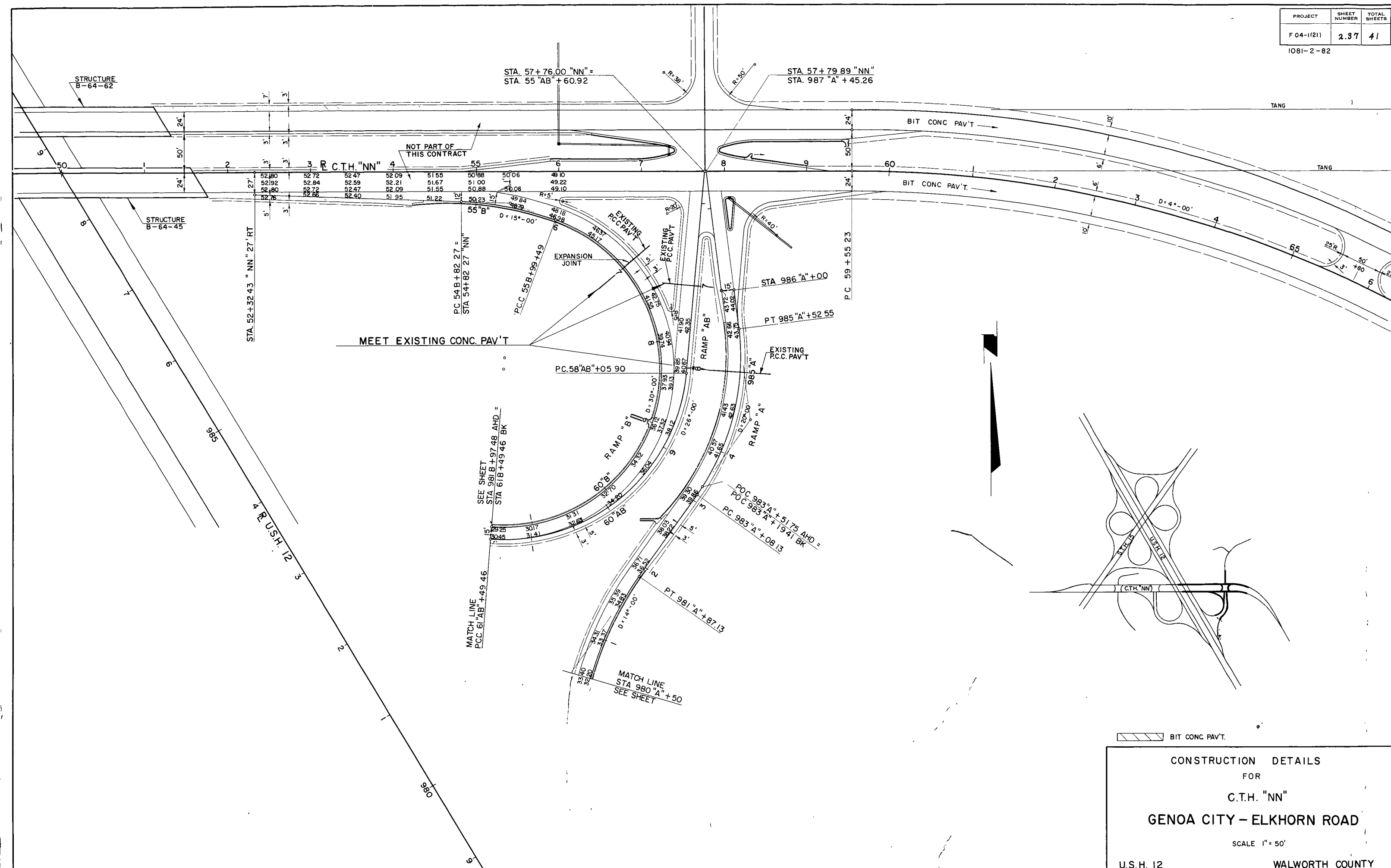
1081-2-82



CONSTRUCTION DETAILS
FOR
C.T.H. "NN"
GENOA CITY - ELKHORN ROAD
SCALE 1" = 50'
U.S.H. 12
WALWORTH COUNTY

PROJECT	SHEET NUMBER	TOTAL SHEETS
F 04-1(21)	2.37	41

1081-2-82

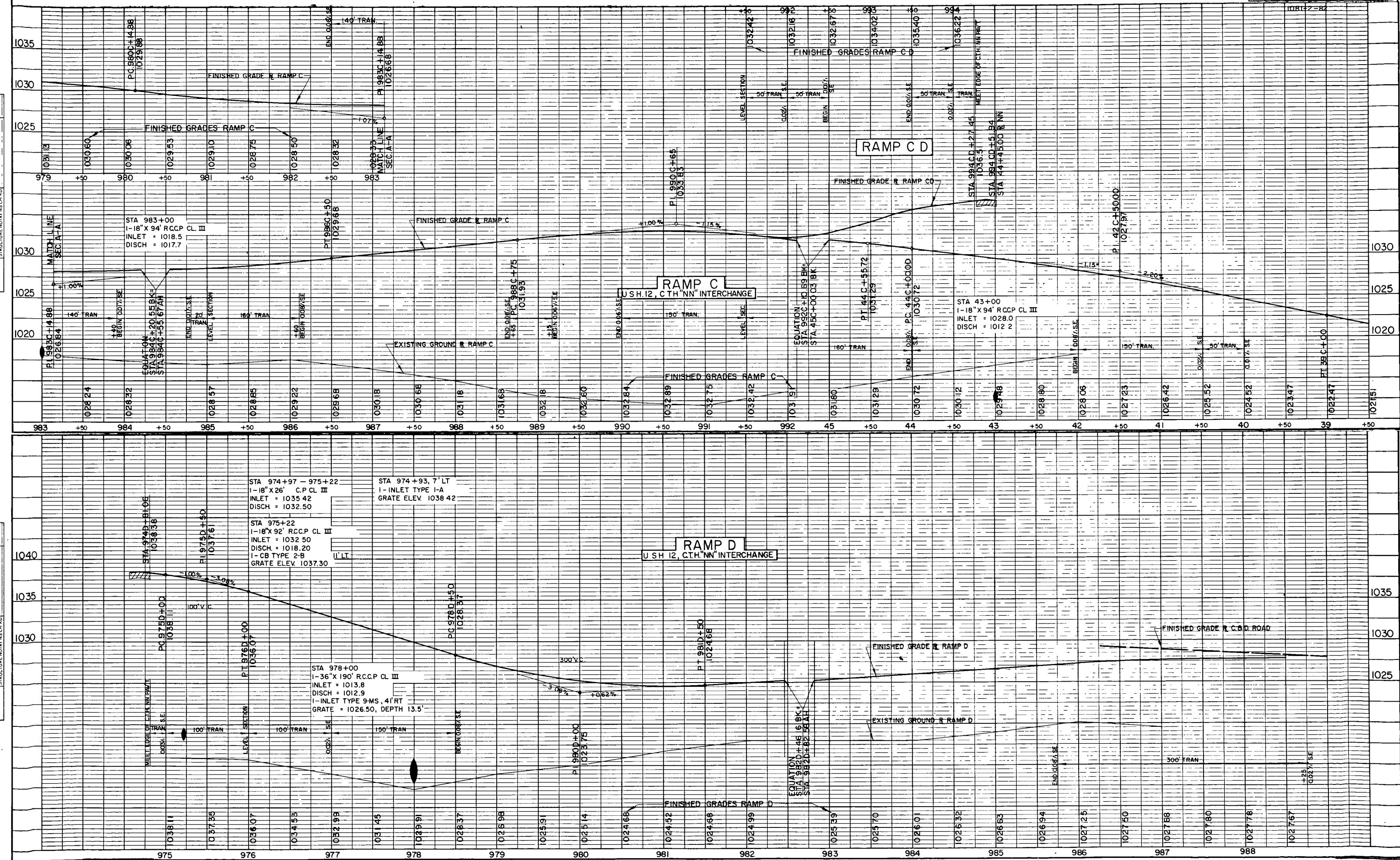


BIT CONC PAV'T.

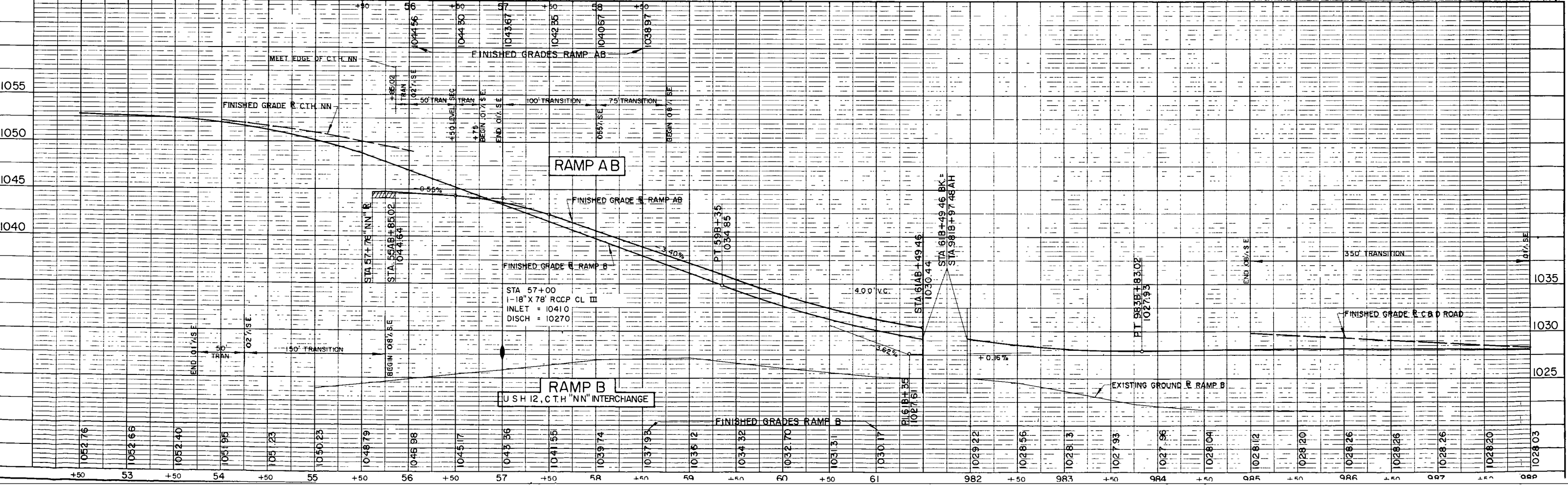
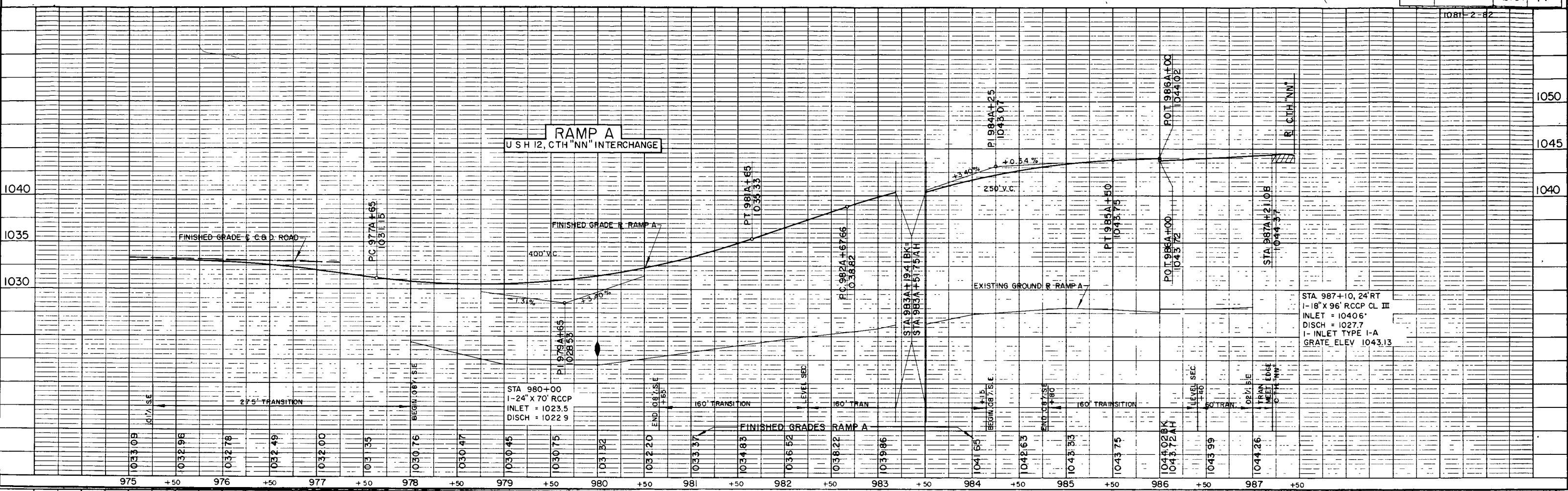
CONSTRUCTION DETAILS
FOR
C.T.H. "NN"
GENOA CITY - ELKHORN ROAD

SCALE 1" = 50'

U.S.H. 12 WALWORTH COUNTY

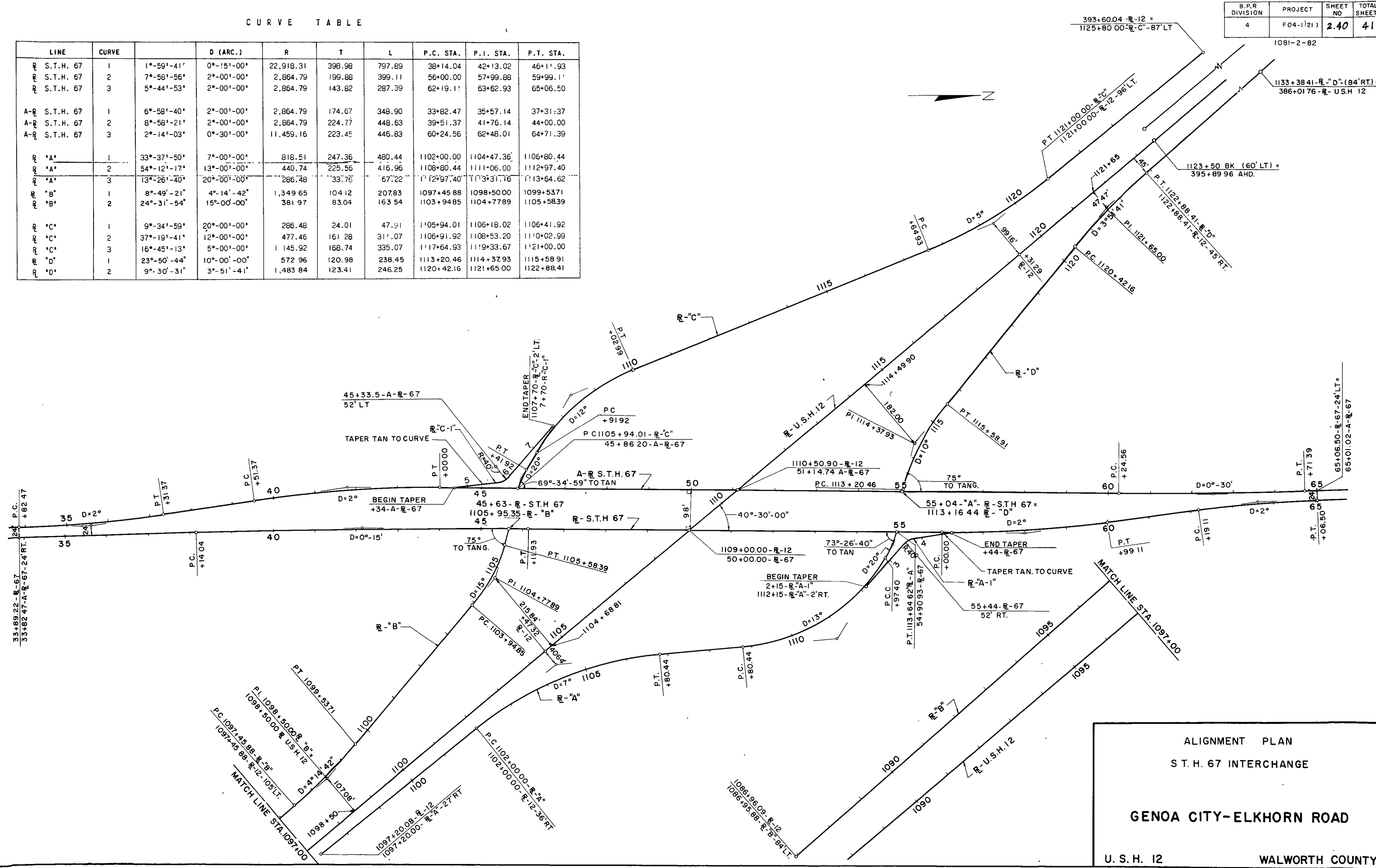


R.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	F 04-1121	2.39	41



CURVE TABLE

LINE	CURVE		D (ARC.)	R	T	L	P.C. STA.	P.T. STA.	P.T. STA.
R S.T.H. 67	1	1°-59'-41"	0°-15'-00"	22,918.31	398.98	797.89	38+14.04	42+13.02	46+11.93
R S.T.H. 67	2	7°-58'-56"	2°-00'-00"	2,864.79	199.88	399.11	56+00.00	57+99.88	59+99.11
R S.T.H. 67	3	5°-44'-53"	2°-00'-00"	2,864.79	143.82	287.39	62+19.11	63+62.93	65+06.50
A-R S.T.H. 67	1	6°-58'-40"	2°-00'-00"	2,864.79	174.67	348.90	33+82.47	35+57.14	37+31.37
A-R S.T.H. 67	2	8°-58'-21"	2°-00'-00"	2,864.79	224.77	448.63	39+51.37	41+76.14	44+00.00
A-R S.T.H. 67	3	2°-14'-03"	0°-30'-00"	11,459.16	223.45	446.83	60+24.56	62+48.01	64+71.39
R "A"	1	33°-37'-50"	7°-00'-00"	818.51	247.36	480.44	1102+00.00	1104+47.36	1106+80.44
R "A"	2	54°-12'-17"	13°-00'-00"	440.74	225.56	416.96	1108+80.44	1111+06.00	1112+97.40
R "A"	3	13°-26'-40"	20°-00'-00"	286.48	33.76	67.22	1112+97.40	1113+31.16	1113+64.62
R "B"	1	8°-49'-21"	4°-14'-42"	1,349.65	104.12	207.83	1097+45.88	1098+50.00	1099+53.71
R "B"	2	24°-31'-54"	15°-00'-00"	381.97	83.04	163.54	1103+94.85	1104+77.89	1105+58.39
R "C"	1	9°-34'-59"	20°-00'-00"	286.48	24.01	47.91	1105+94.01	1106+18.02	1106+41.92
R "C"	2	37°-19'-41"	12°-00'-00"	477.46	161.28	311.07	1106+91.92	1108+53.20	1110+02.99
R "C"	3	16°-45'-13"	5°-00'-00"	1,145.92	168.74	335.07	1117+64.93	1119+33.67	1121+00.00
R "D"	1	23°-50'-44"	10°-00'-00"	572.96	120.98	238.45	1113+20.46	1114+37.93	1115+58.91
R "D"	2	9°-30'-31"	3°-51'-41"	1,483.84	123.41	246.25	1120+42.16	1121+65.00	1122+88.41



B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	2.40	41

ALIGNMENT PLAN
S.T.H. 67 INTERCHANGE

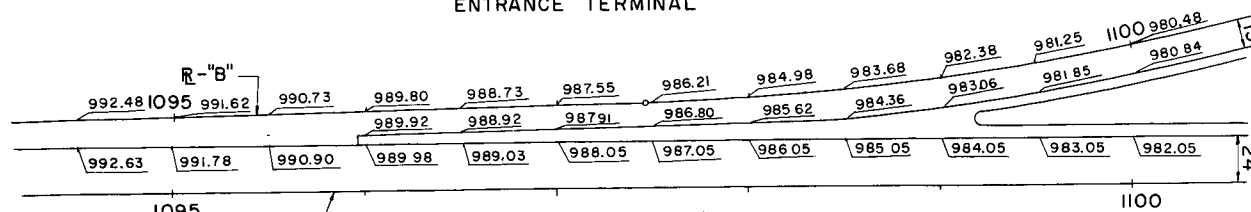
GENOA CITY-ELKHORN ROAD

U. S. H. 12 WALWORTH COUNTY

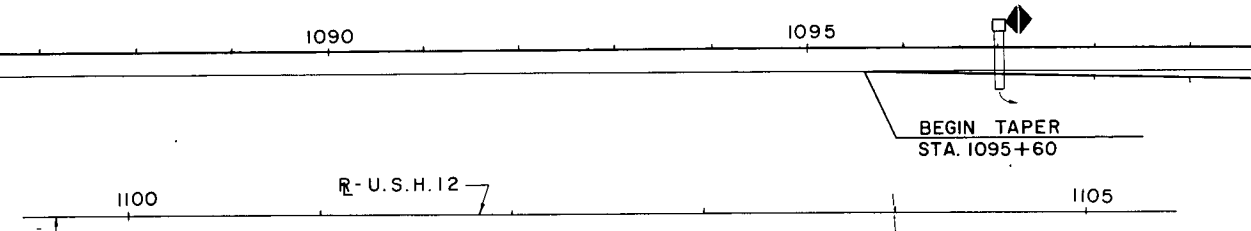
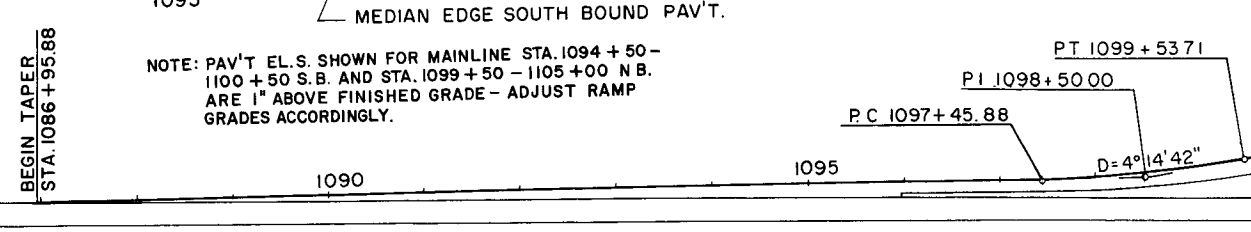
B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	2.41	41

1081-2-82

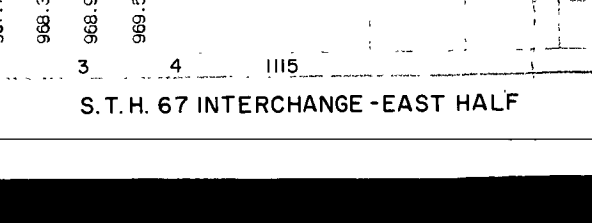
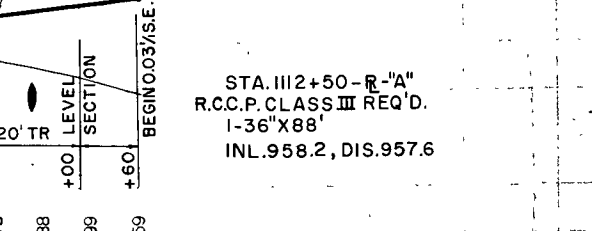
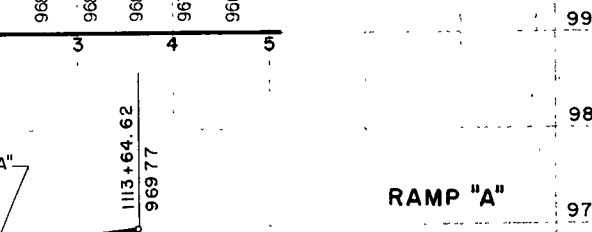
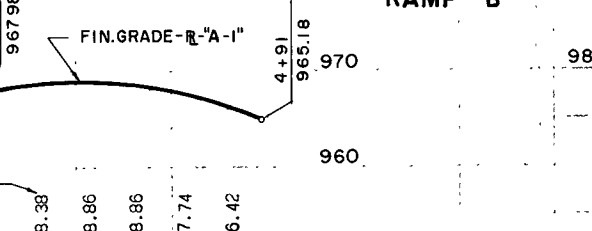
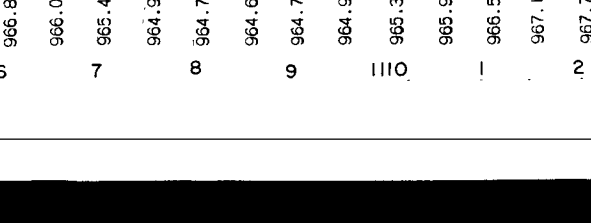
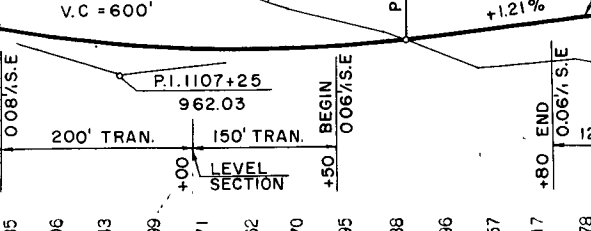
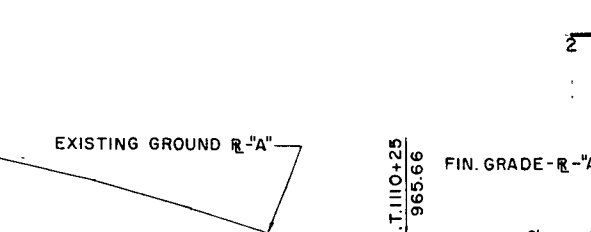
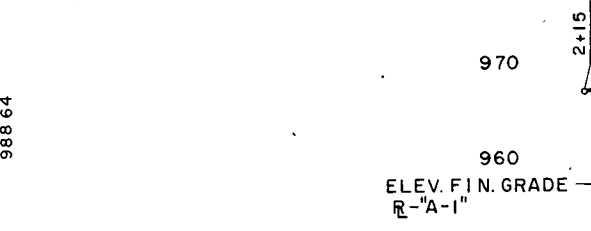
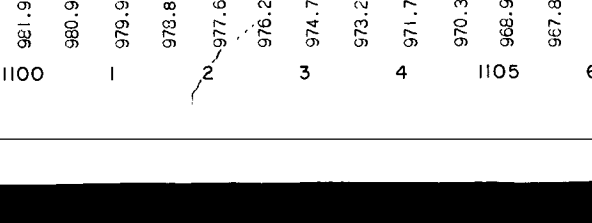
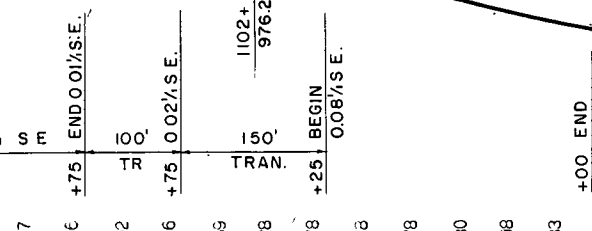
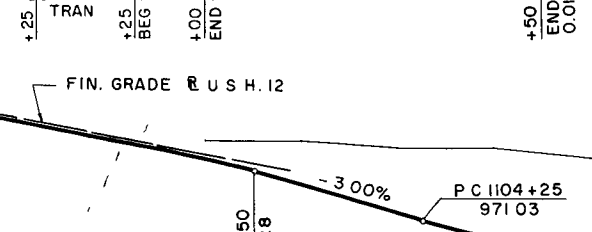
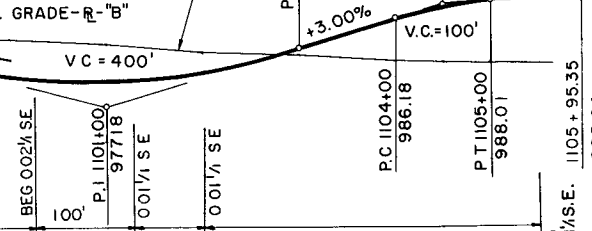
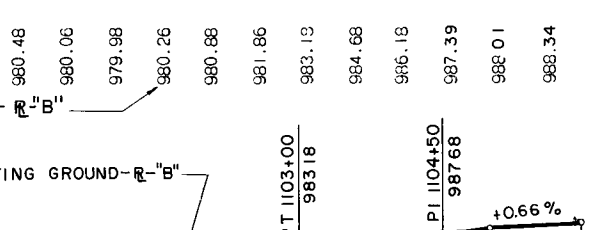
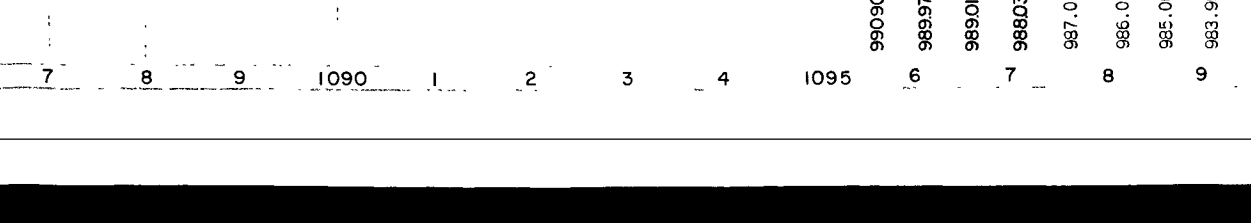
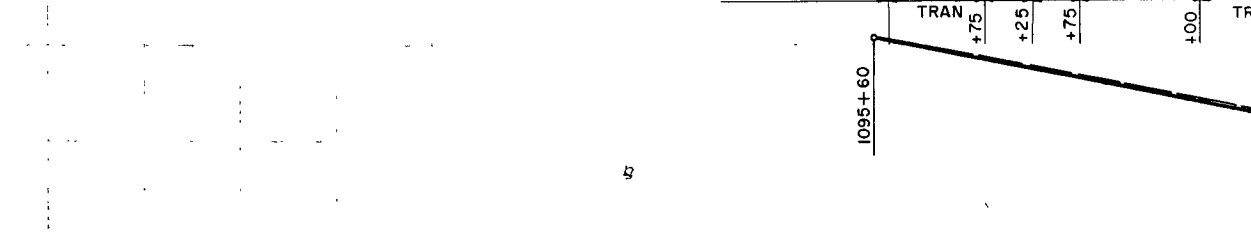
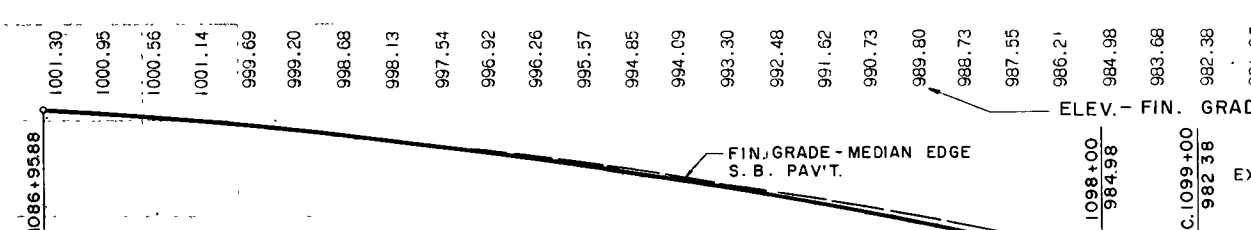
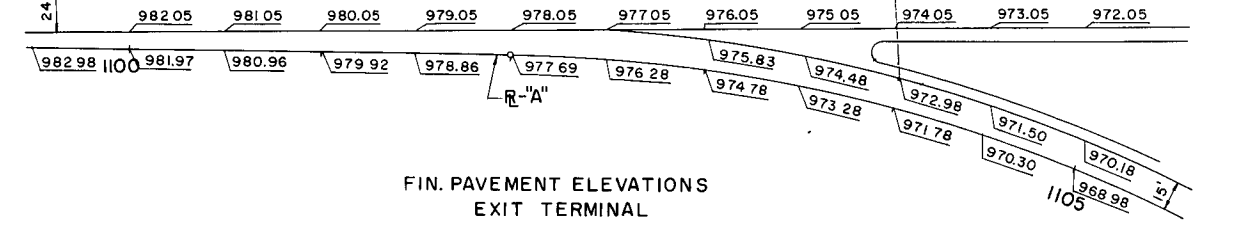
FIN. PAVEMENT ELEVATIONS ENTRANCE TERMINAL



NOTE: PAV'T EL.S. SHOWN FOR MAINLINE STA. 1094 + 50 - 1100 + 50 S.B. AND STA. 1099 + 50 - 1105 + 00 N.B. ARE 1" ABOVE FINISHED GRADE - ADJUST RAMP GRADES ACCORDINGLY.



END PROJECT F04-1(21)
STA. 1109+00



STA. 1112+50-R-A"
R.C.C.P. CLASS III REQ'D.
1-36"X88"
INL. 958.2, DIS. 957.6

ESTIMATE OF QUANTITIES

THIS PROJECT IS TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE WISCONSIN DIVISION OF HIGHWAYS - EDITION OF 1969 SUBMITTED FOR APPROVAL OCT.23,1968, FEDERAL AID REQUIRED CONTRACT PROVISIONS APPROVED OCT.15,1963, AND SPECIAL PROVISIONS AS ATTACHED TO PROPOSALS.

CONTRACT NO. 1 & 2
SURFACING (P.C.CONC.)

BPR REGION	PROJECT	SHEET NO	TOTAL SHEET
4	F04-1(21)	3	4

1081-2-81 & 82

[illegible]

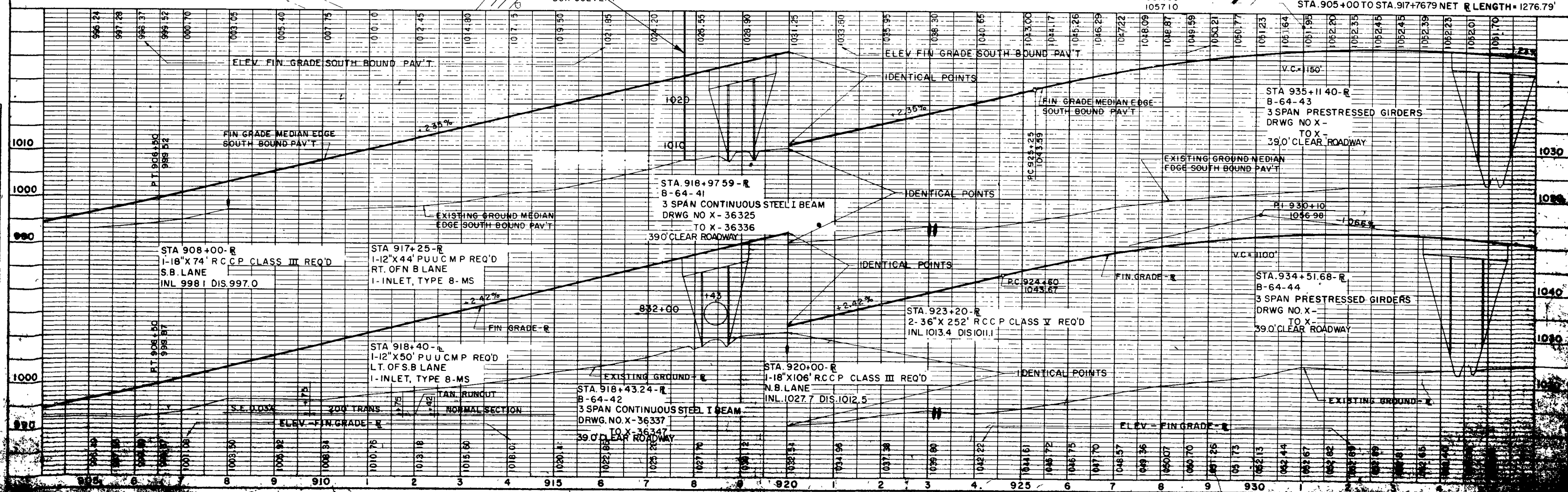
* NO FEDERAL PARTICIPATION

[illegible][illegible]



NO	STATION	DESCRIPTION	ELEV.
41	932+00	R.R. SPIKE IN POWER POLE 195' RT	1027.31
42	914+35	SQUARE CUT IN N.CULV. HDWALL 465' RT.	1008.01
	908+00	TOP OF CULVERT PIPE - MEDIAN END.	999.68

BPR DIVISION	PROJECT	SHEET NO.	TOTAL SHEET
4	FO4-I(21)	17	41

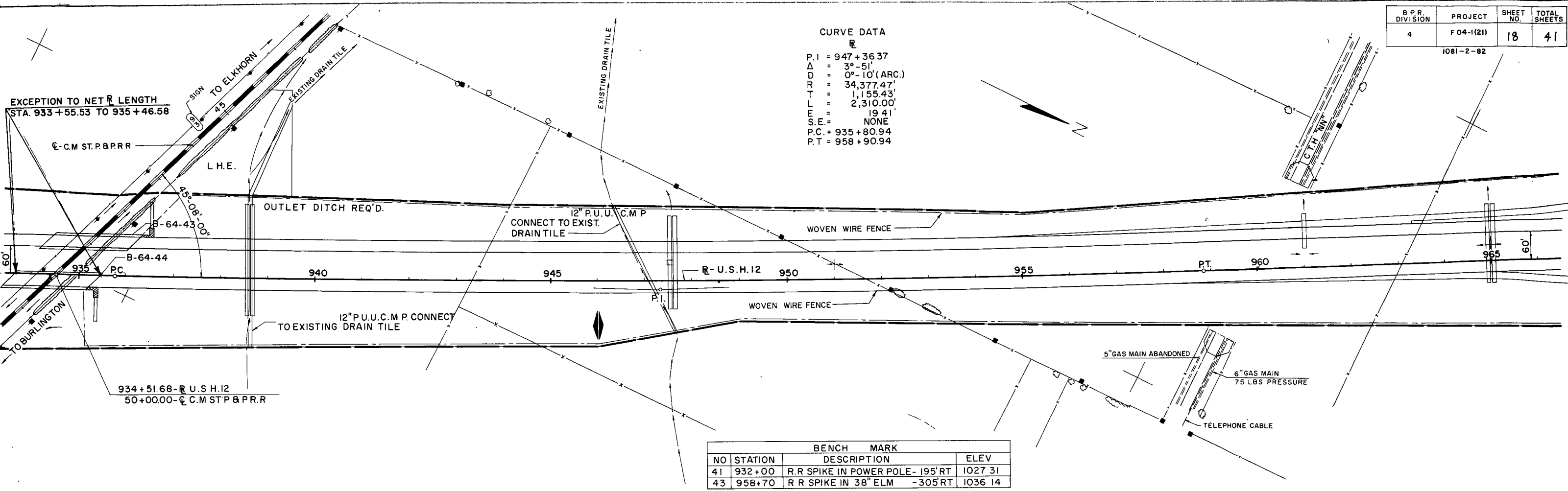


B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F 04-1(21)	18	41

1081-2-82

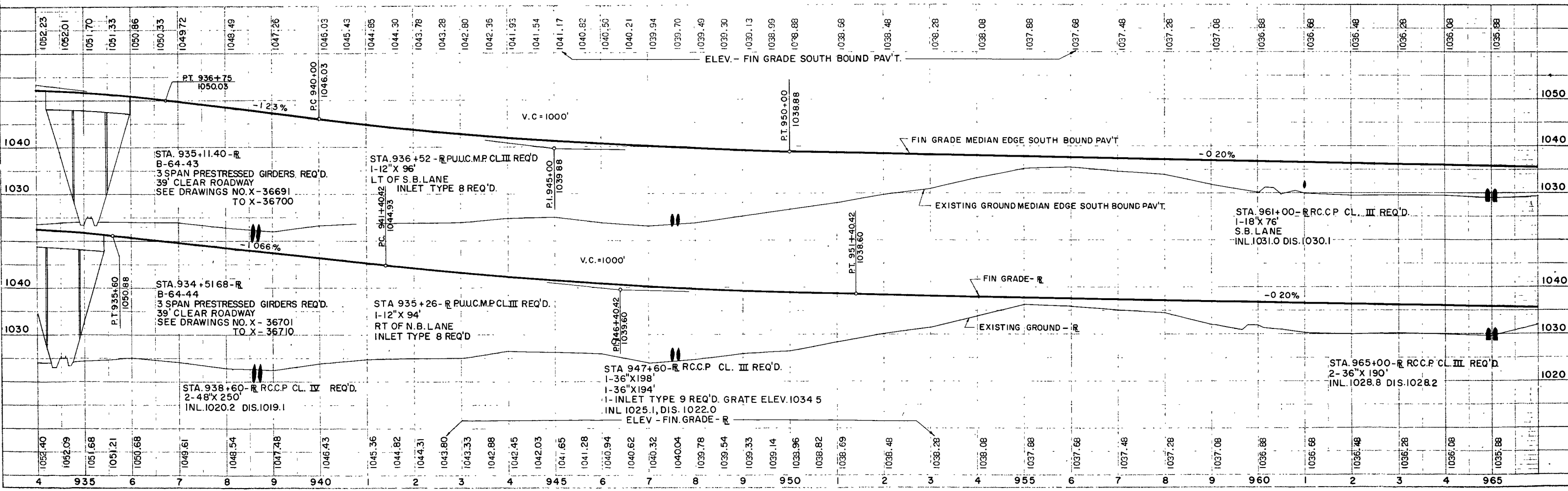
CURVE DATA
 R = 947+36.37
 Δ = 3°-51'
 D = 0°-10' (ARC.)
 R = 34,377.47'
 L = 1,155.43'
 E = 2,310.00'
 S.E. = 19.41'
 P.C. = 935+80.94
 P.T. = 958+90.94

EXCEPTION TO NET R LENGTH
 STA. 933+55.53 TO 935+46.58

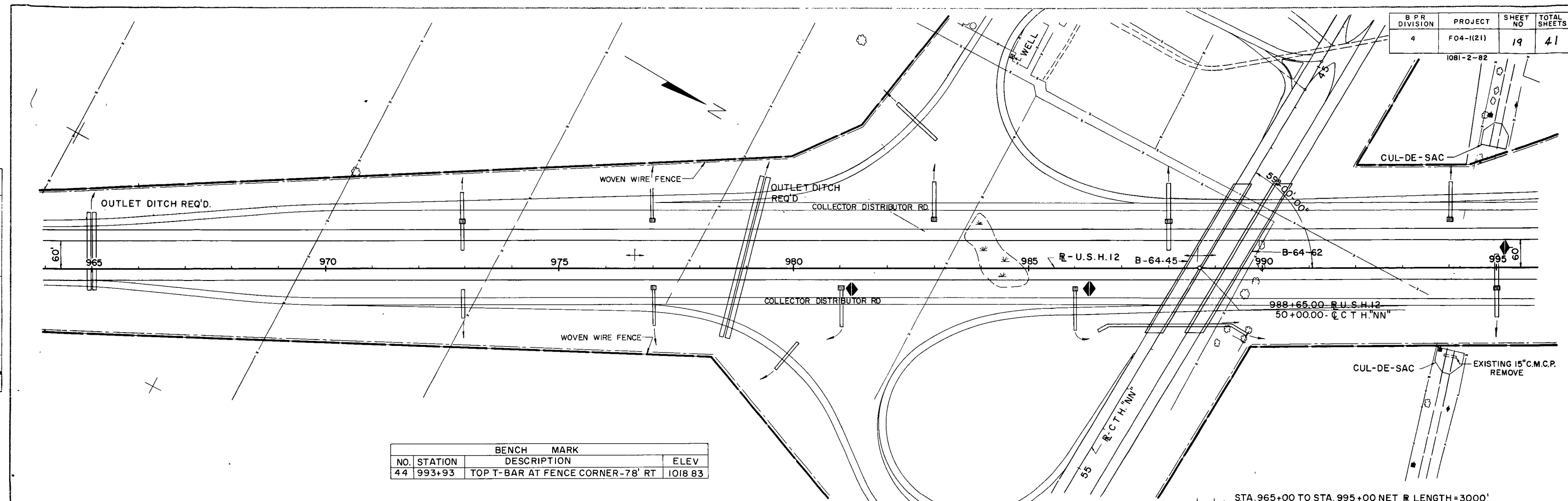


NO	STATION	BENCH MARK DESCRIPTION	ELEV
41	932+00	R.R SPIKE IN POWER POLE - 195 RT	1027.31
43	958+70	R.R SPIKE IN 38\" ELM - 305 RT	1036.14

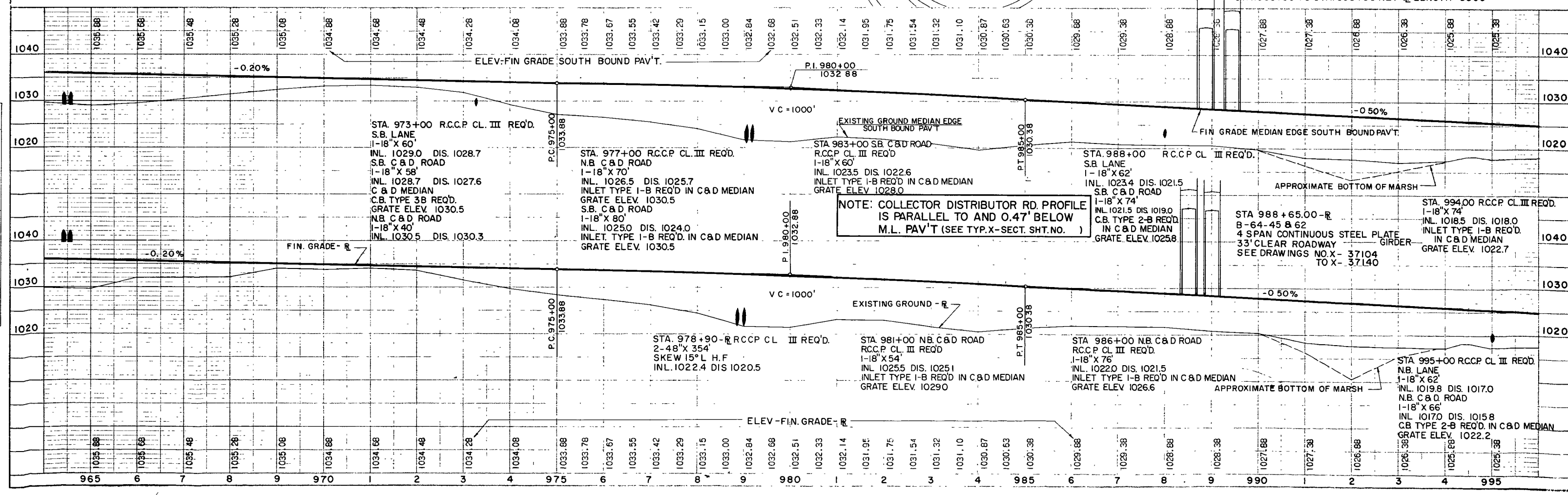
STA. 935+00 TO STA 965+00 NET R LENGTH = 2,953.42'



B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	FO4-1(21)	19	41

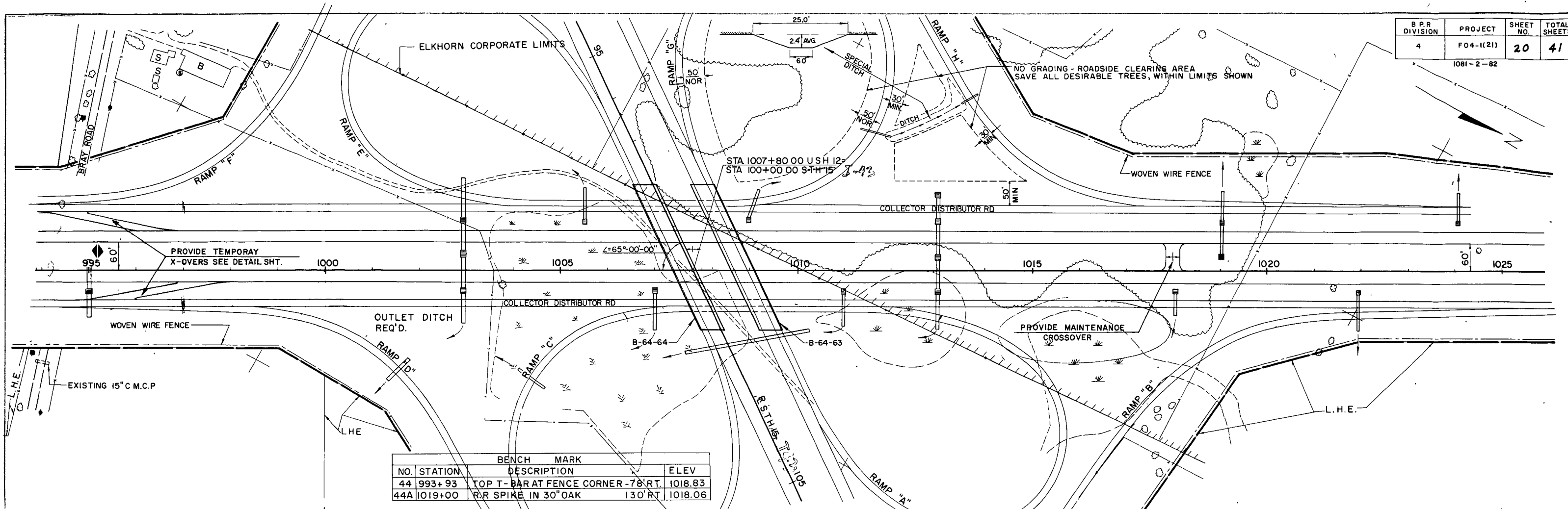


BENCH MARK		
NO.	STATION	DESCRIPTION
44	993+93	TOP T-BAR AT FENCE CORNER-78' RT
		ELEV. 1018.83



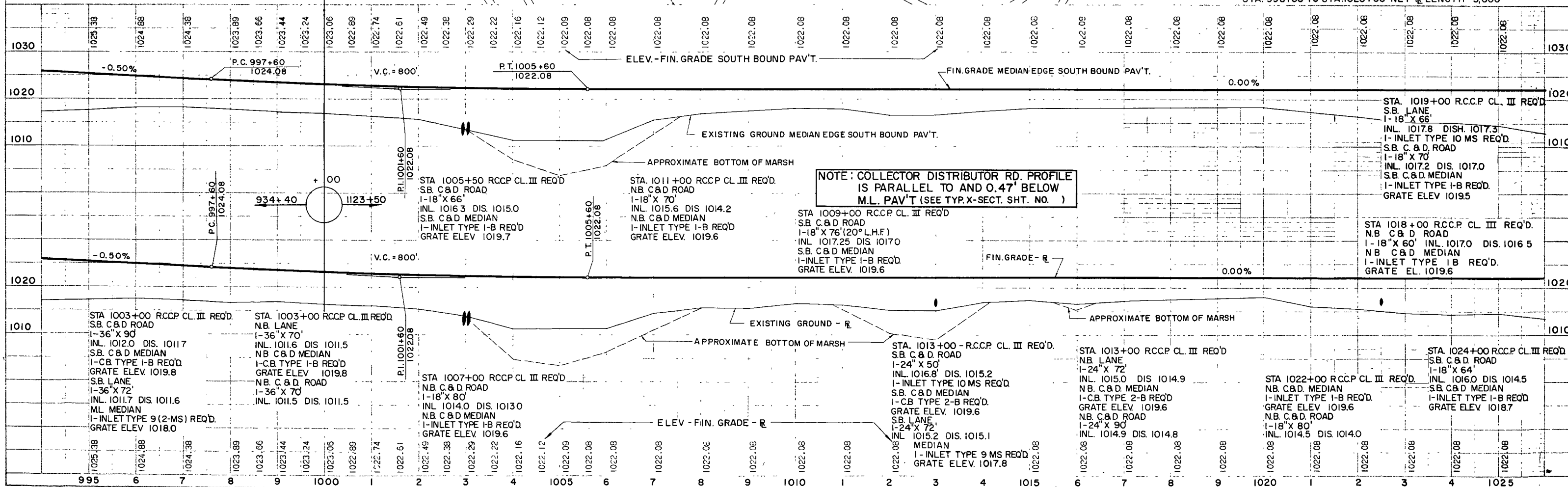
B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	FO4-1(21)	20	41

1081-2-82



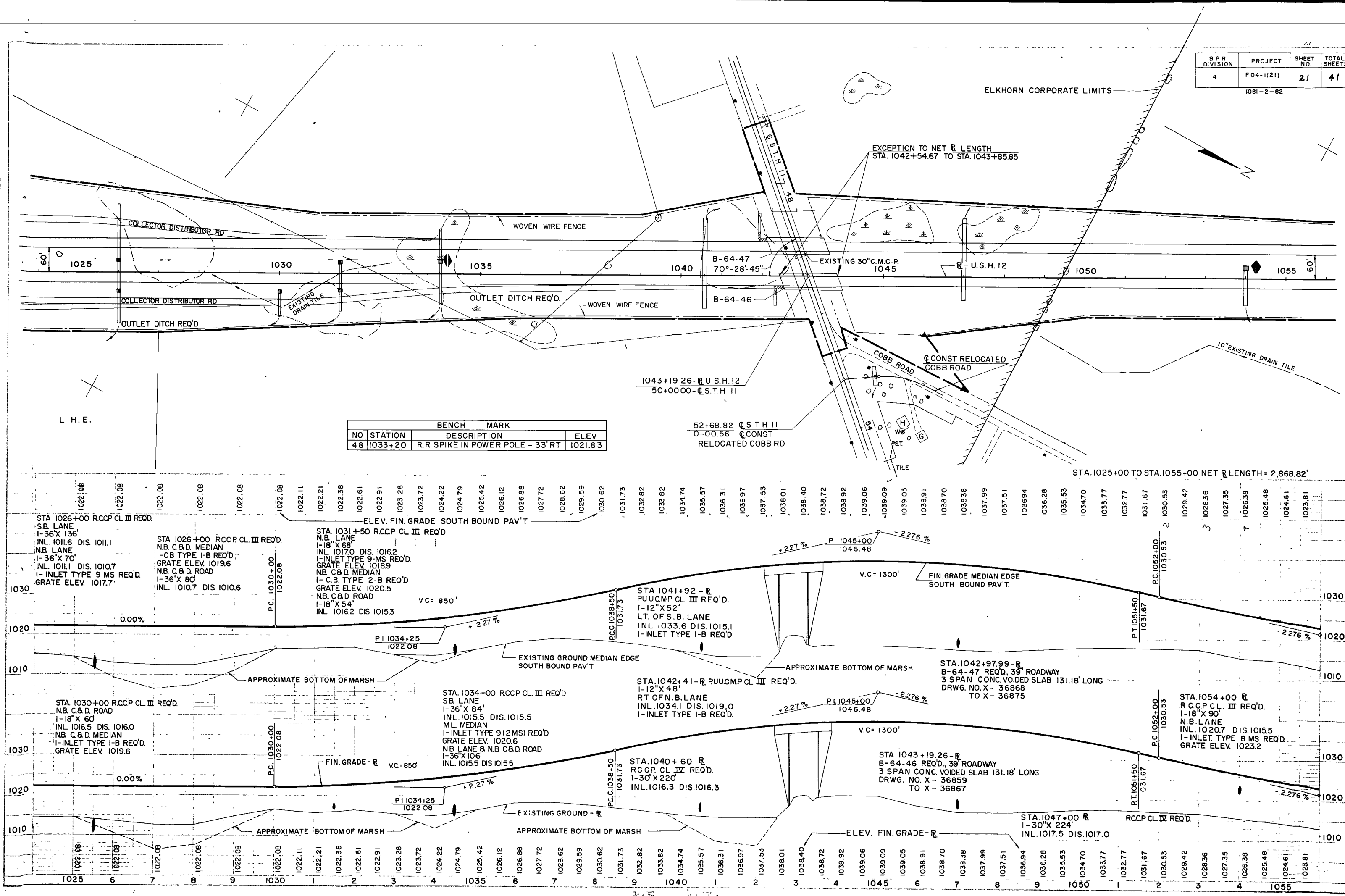
NO.	STATION	BENCH MARK DESCRIPTION	ELEV
44	993+93	TOP T-BAR AT FENCE CORNER - 78' RT.	1018.83
44A	1019+00	R.R. SPIKE IN 30' OAK	130' RT 1018.06

STA. 995+00 TO STA. 1025+00 NET R. LENGTH = 3,000'



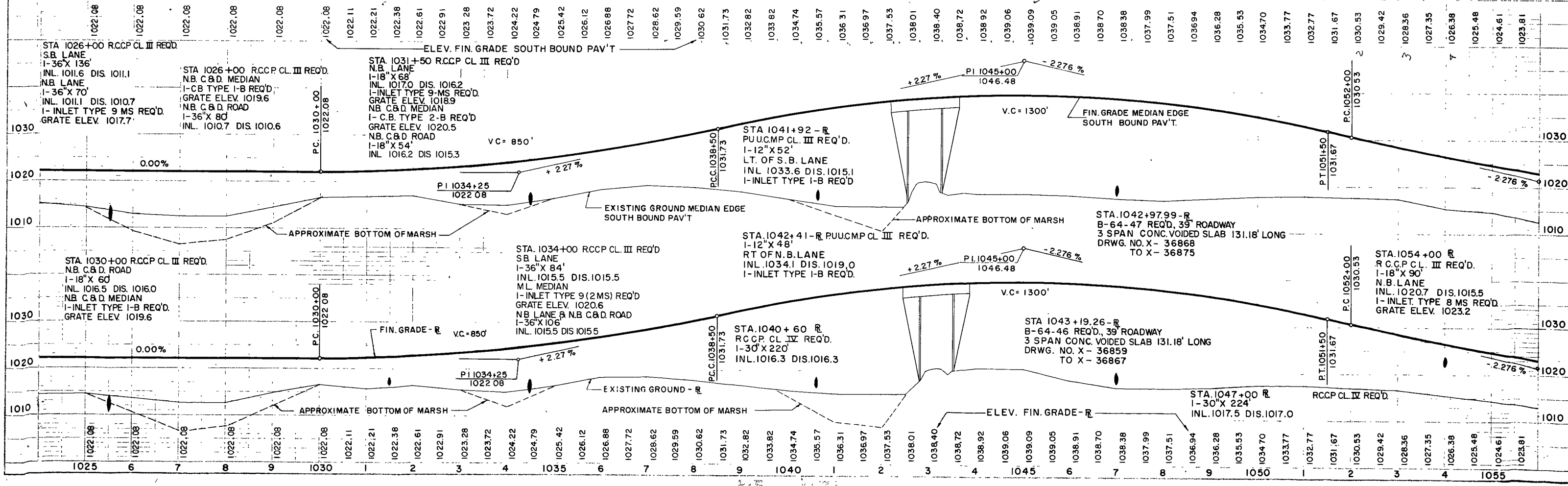
S.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	21	41

1081-2-82



NO	STATION	BENCH MARK DESCRIPTION	ELEV
48	1033+20	R.R SPIKE IN POWER POLE - 33' RT	1021.83

STA. 1025+00 TO STA. 1055+00 NET R LENGTH = 2,868.82'

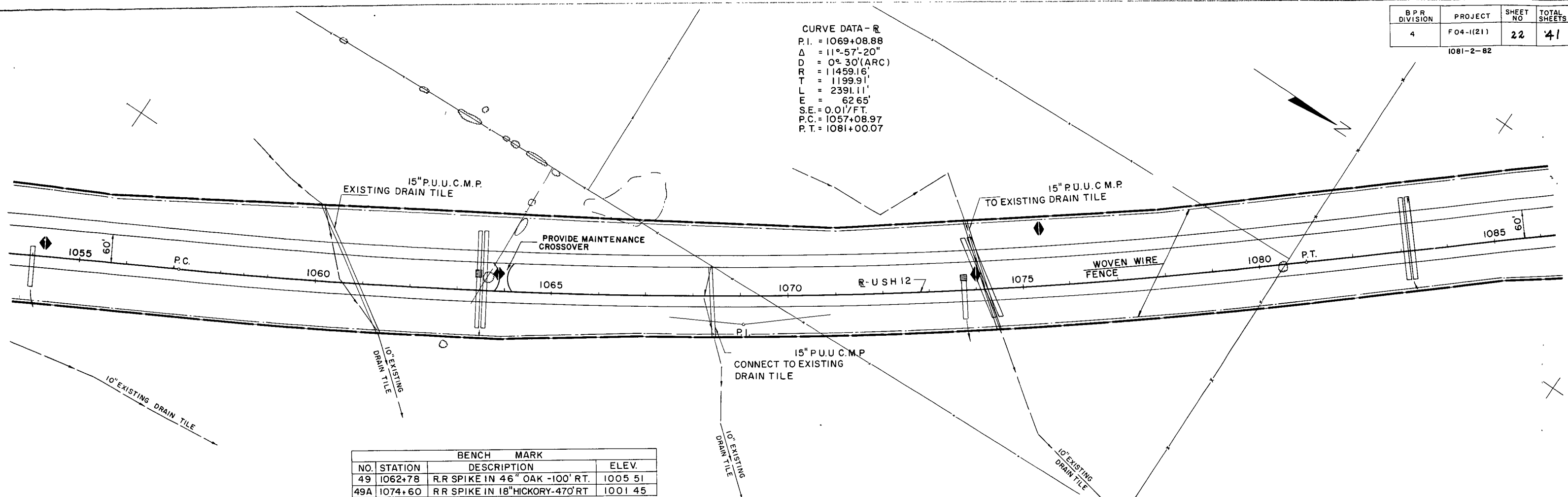


1025 1055

B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	22	41

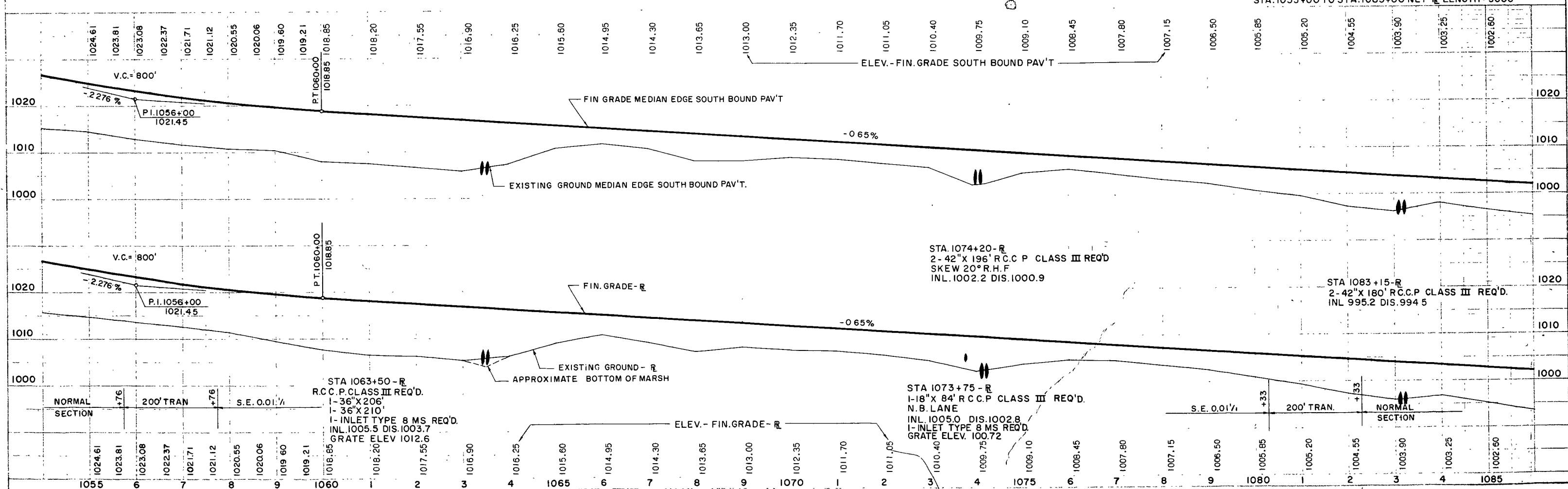
1081-2-82

CURVE DATA - R
P.I. = 1069+08.88
Δ = 11° 57' 20"
D = 0° 30' (ARC)
R = 11459.16'
T = 1199.91'
L = 2391.11'
E = 62.65'
S.E. = 0.01/FT.
P.C. = 1057+08.97
P.T. = 1081+00.07



NO.	STATION	BENCH MARK DESCRIPTION	ELEV.
49	1062+78	R.R SPIKE IN 46" OAK -100' RT.	1005.51
49A	1074+60	R.R SPIKE IN 18" HICKORY -470' RT.	1001.45

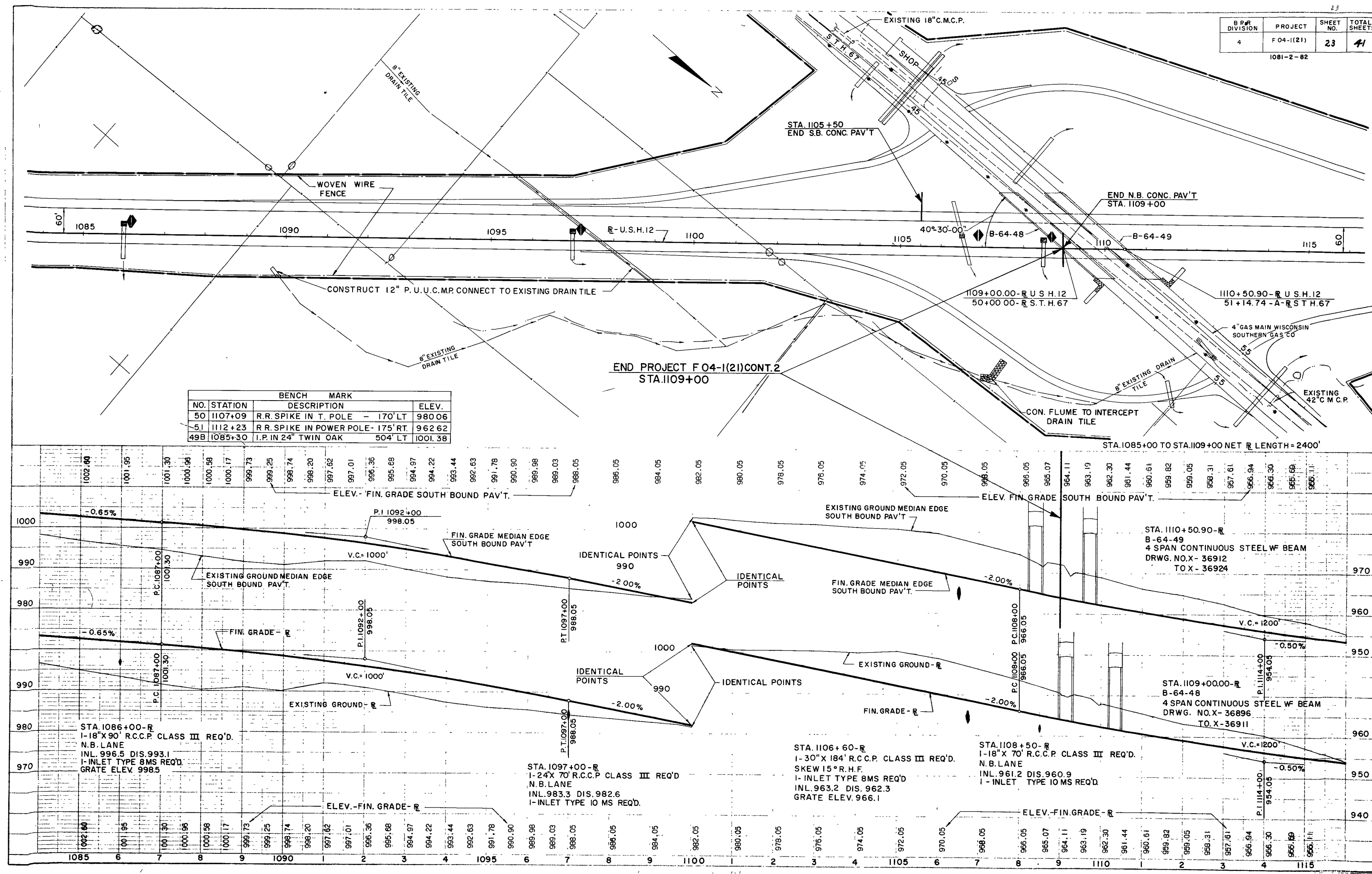
STA. 1055+00 TO STA. 1085+00 NET R LENGTH = 3000'



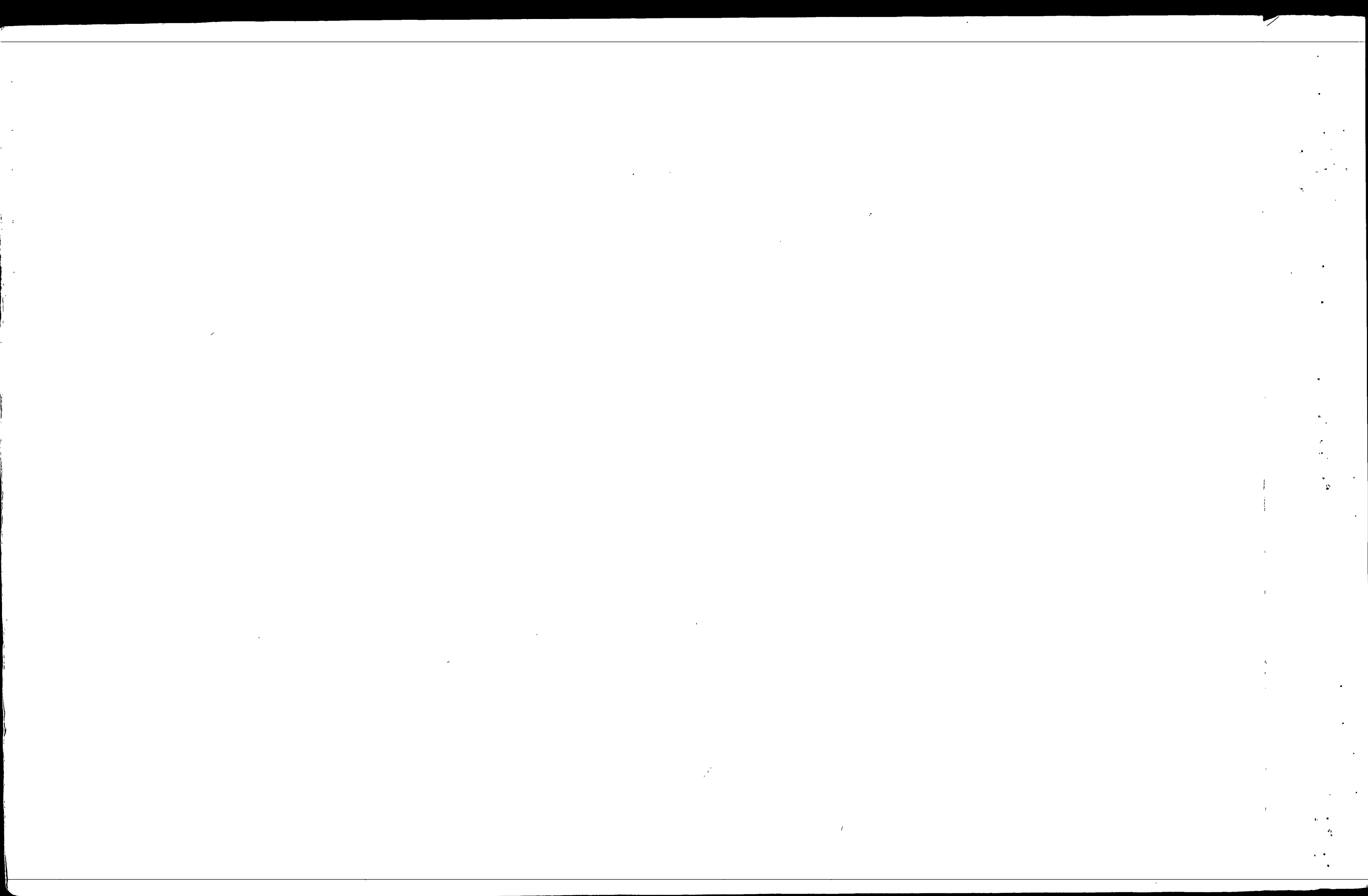
1055-1085

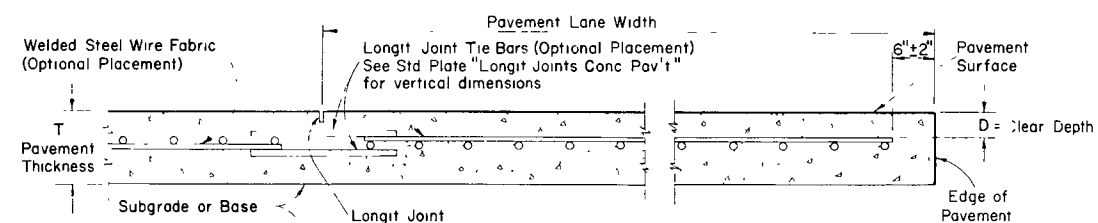
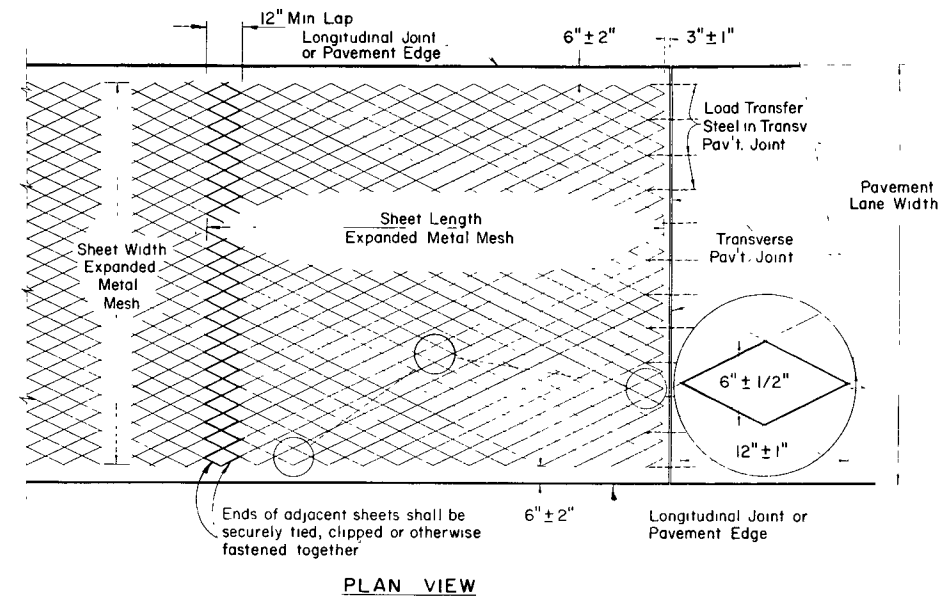
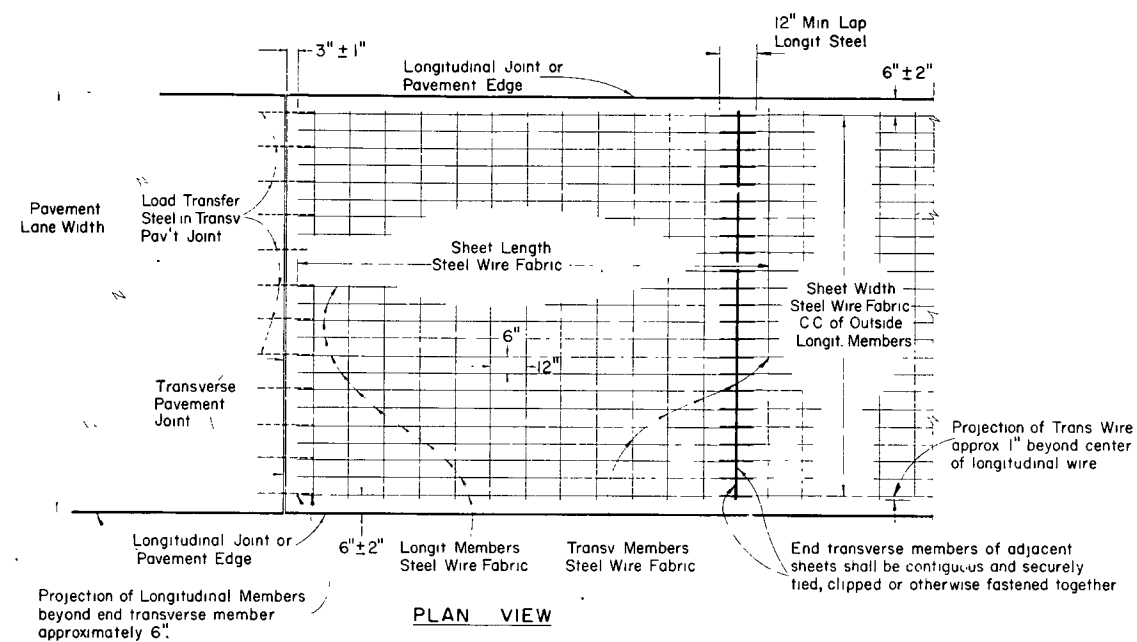
B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	F04-1(21)	23	41

1081-2-82



1085-1115





WELDED STEEL WIRE FABRIC

WELDED STEEL WIRE FABRIC

Manufacturer's No. 612-04
Approx. Weight per 100 Sq Ft = 69.0 lbs
Longitudinal Steel - Gage No. 0 = 0.3065" D at 6" CC
Transverse Steel - Gage No. 4 = 0.2253" D at 12" CC

Welded Steel Wire Fabric shall conform to the requirements of the Standard Specifications for Welded Steel Wire Fabric for Concrete Reinforcement A A S H O Designation M55
Side lap of adjacent sheets approximate 6"

SHIPPING REQUIREMENTS

Welded Steel Wire Fabric or Expanded Metal Mesh Concrete Pavement Reinforcement shall be shipped to the job site in flat sheets

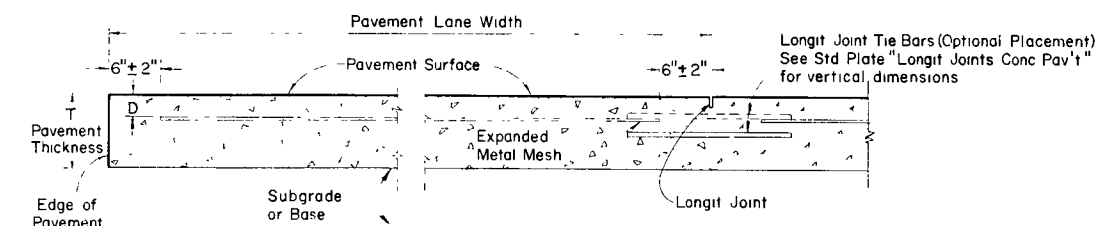
EXPANDED METAL MESH

Weight per 100 Sq Ft = 76.0 lbs min
Expanded Metal Mesh shall be manufactured from open hearth steel, having a phosphorus content of not more than 0.05 percent, and a yield point of not less than 55,000 p.s.i. The steel shall be sufficiently ductile to permit any strand to be bent through an angle of 180 degrees over one diam. without fracture
The diamond shaped mesh shall be fabricated by a cold drawn process which will cut and draw the steel forming uniform dimensioned strands conforming to shape and weight as shown elsewhere hereon
Side lap of adjacent sheets approximate 6"

Pavement Thickness	"D"
8"	2'-4"
9"	2'-4 1/2"
10"	2'-5"

GENERAL NOTES-

Details of Construction and Materials not shown hereon shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions



EXPANDED METAL MESH



CONCRETE PAVEMENT REINFORCEMENT

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

DATE

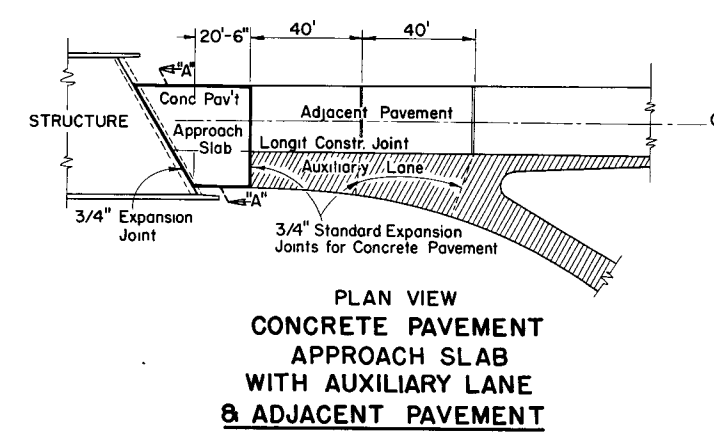
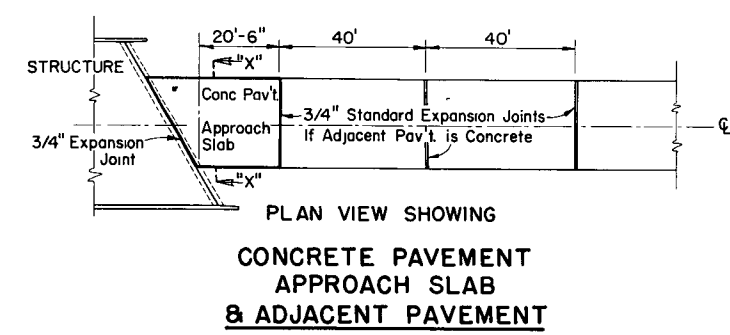
APPROVED

DIST.

PLATE NO. 2112

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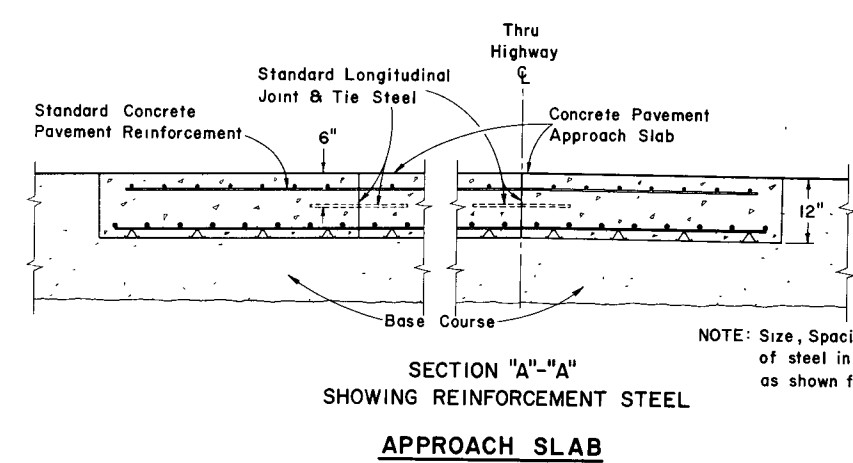
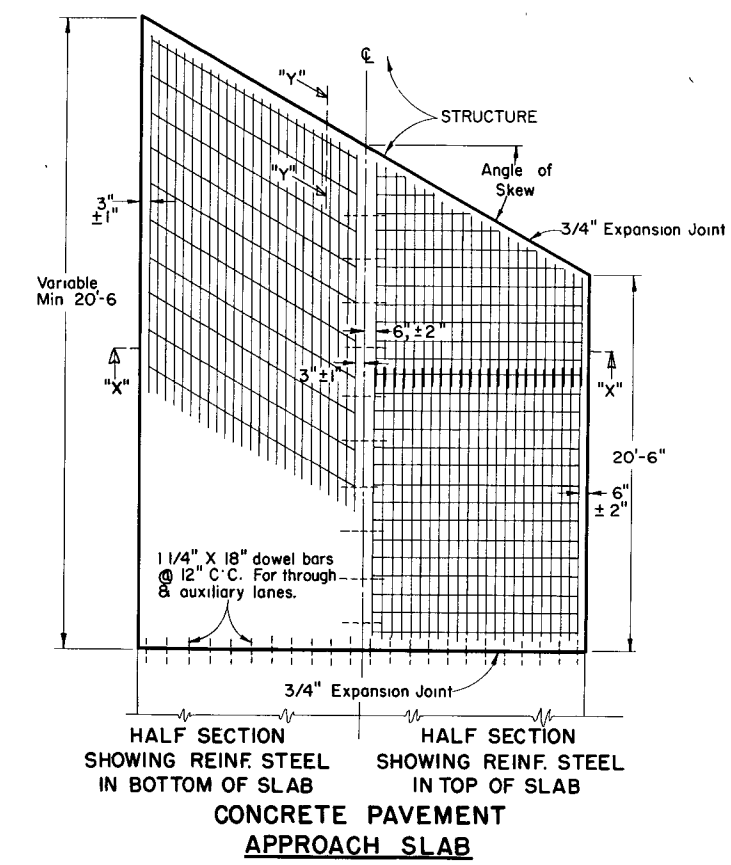
28.1-41



INFORMATION FOR BIDDING PURPOSES

ESTIMATE QUANTITIES FOR VARIOUS SKEWED
STRUCTURE APPROACHES (ONE END ONLY)
24 FOOT WIDTH PAVEMENT

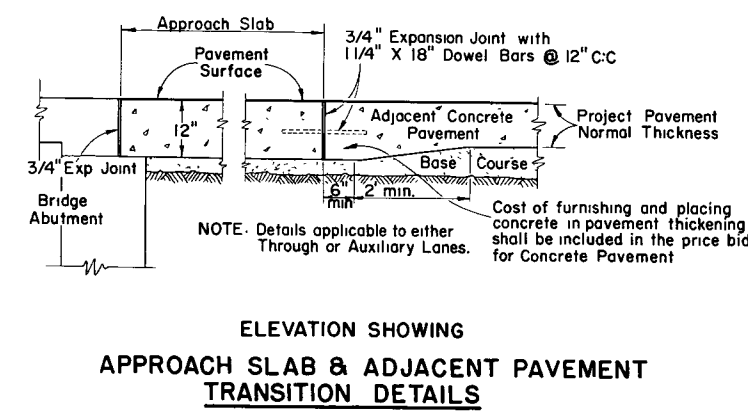
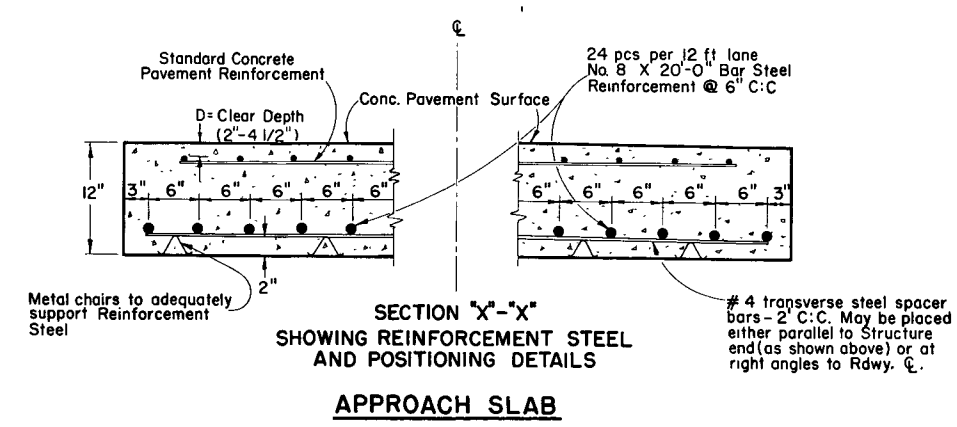
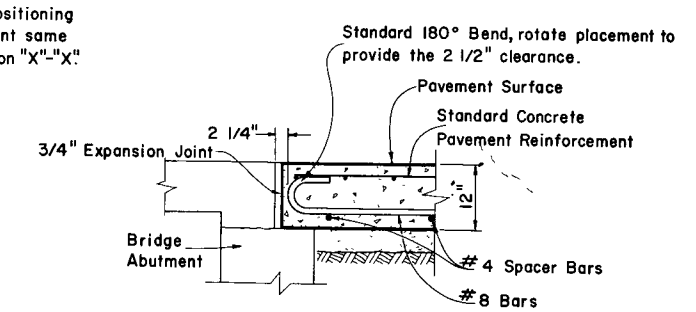
Angle of Skew	Concrete Pavement Sq. Yards	Concrete Pavement Cu. Yards	Concrete Pavement Reinforc't Sq. Yards	Bar Steel 48 Pcs. No. 8 x 20'-0"	Bar Steel Spacer Bars No. 4 Pounds
0°	54.7	18.2	54.7	2,701	156
15°	63.2	21.1	63.2	"	162
30°	73.2	24.4	73.2	"	180
45°	86.7	28.9	86.7	"	220
60°	110.1	36.7	110.1	"	313



GENERAL NOTES-

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

Details for Standard Concrete Pavement Reinforcement shall conform to the pertinent requirements of the Standard Detail Drawing for such reinforcement.



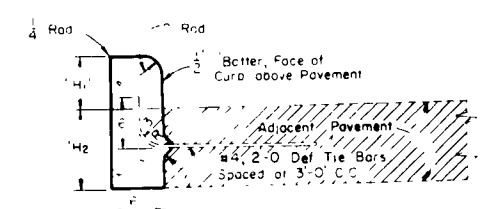
STRUCTURE APPROACH
AND CONCRETE PAVEMENT
APPROACH SLAB

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL
DATE 1/25/68
DESIGN ENGINEER

APPROVED
DATE 2/3/68
STATE HIGHWAY ENGINEER

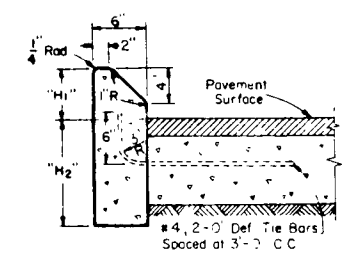
28.2-41



Tie Bar recess positioned in reverse when Concrete Curb is constructed first.

TYPE "A" (Including Tie Bars) TYPE "D" (Excluding Tie Bars)

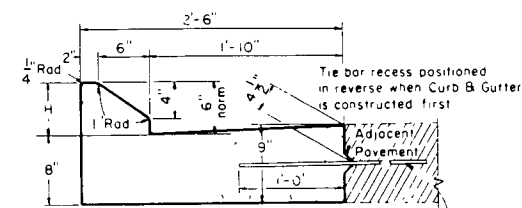
CONCRETE CURB



"H" = 9" Max and 4" min and shall be 6" unless otherwise shown on plans.
"H2" = Same as adjacent pavement thickness for rigid pavement and 12" for other than rigid pavement (Tie Bars Omitted).

TYPE "G" (Including Tie Bars) TYPE "J" (Excluding Tie Bars)

CONCRETE CURB
(Mountable Type)



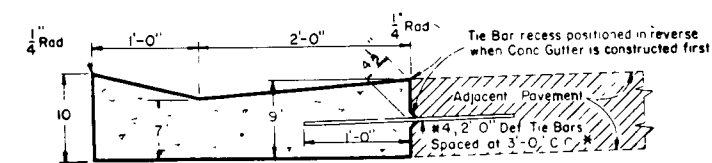
"H" = 9" max and 4" min. B shall be 6" unless otherwise shown on the plans.
#4, 2'-0" Def Tie Bars or alternate Bolt Type install may be used, spaced at 3'-0" C C

TYPE "G" (Including Tie Bars) TYPE "J" (Excluding Tie Bars)

CONCRETE CURB AND GUTTER
(Mountable Type)

GENERAL NOTES

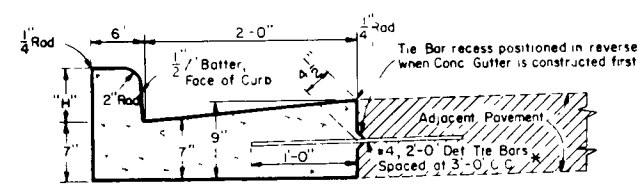
Details of construction and materials not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.
JOINTS - Joints shall not be sealed in concrete curb, concrete gutter, concrete curb and gutter, or concrete surface drains.



* Alternate Tie Bars or Bolt Type installations may be used as shown for Longitudinal Joints

TYPE "A" (Including Tie Bars) TYPE "D" (Excluding Tie Bars)

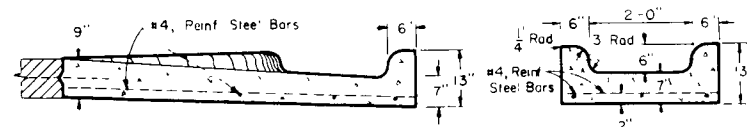
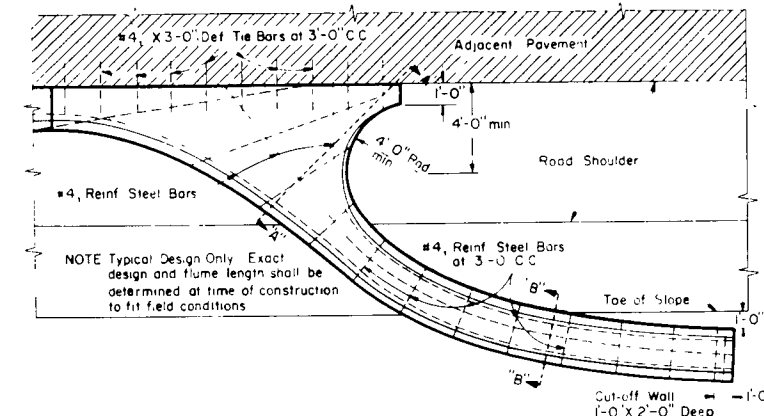
CONCRETE GUTTER



"H" = 9" Max, 3 1/2" Min, and shall be 6" unless otherwise shown on the plans.
* Alternate Tie Bars or Bolt Type installations may be used as shown for Longitudinal Joints

TYPE "A" (Including Tie Bars) TYPE "D" (Excluding Tie Bars)

CONCRETE CURB AND GUTTER
(Barrier Type)



SECTION "A-A"

SECTION "B-B"

CONCRETE INLET OR DISCHARGE FOR CURB AND GUTTER SURFACE DRAIN

CONCRETE CURB, CONCRETE GUTTER
CONCRETE CURB AND GUTTER AND
CONCRETE SURFACE DRAINS

STATE HIGHWAY COMMISSION OF WISCONSIN

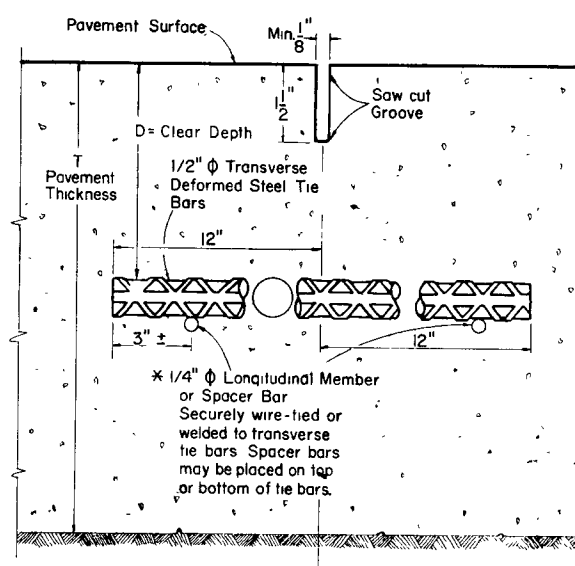
RECOMMENDED FOR APPROVAL

DATE 2-5-63
APPROVED J. S. Pelt ENGINEER OF DESIGN

DATE 2/6/63
APPROVED E. C. Rostetter STATE HIGHWAY ENGINEER

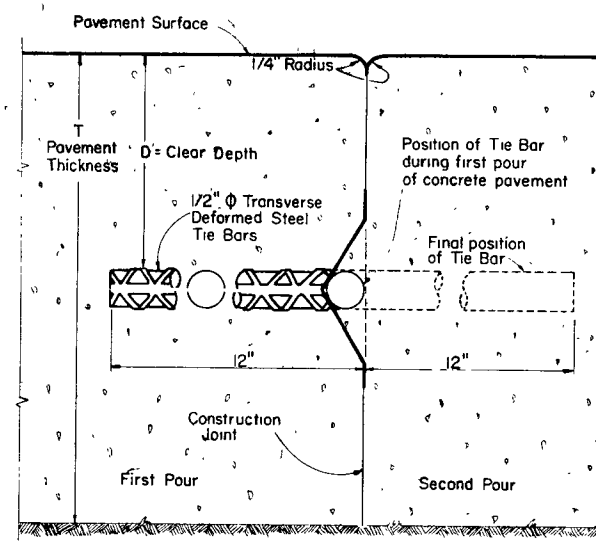
PLATE NO. 3-1.17

28-3-41

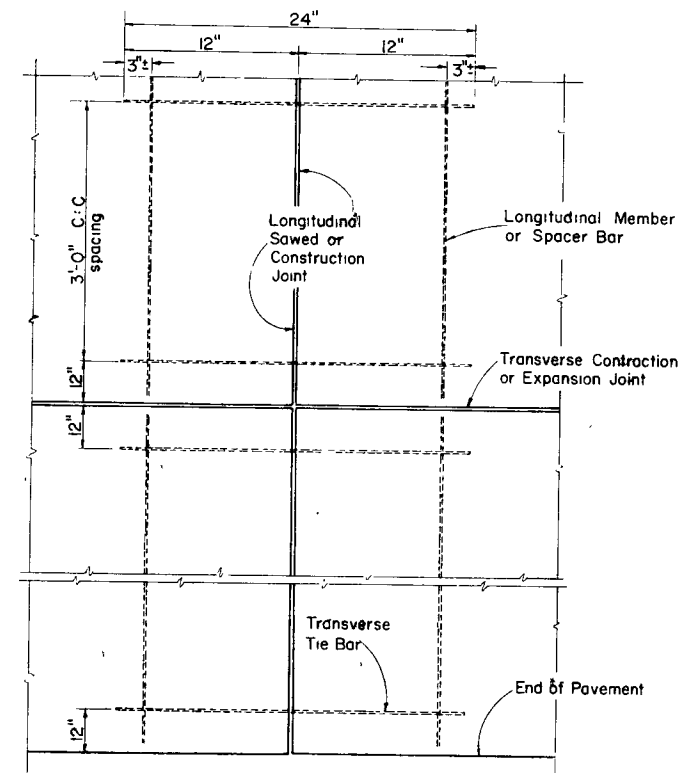


SAWED JOINT
ELEVATION, Showing Tie Bars and Positioning Details

Pavement Thickness	"D"
8"	2'-4 3/4"
9"	2'-5 1/2"
10"	2'-5 3/4"



CONSTRUCTION JOINT
ELEVATION, Showing Tie Bars and Positioning Details



PLAN VIEW, Showing Tie Bars and Location Details

GENERAL NOTES

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

ALTERNATE DESIGNS-

Alternate designs of Bolt Type joint installations may be used upon written approval of the engineer.

SEALING JOINTS-

Longitudinal Joints shall not be sealed.

***TIE BARS**

Tie bars shall be installed as shown (assembled ladder type pattern), or the longitudinal member spacer bar may be omitted if the transverse tie bars can be accurately placed and firmly held during the placing and setting of concrete by devices or methods approved by the engineer, or if mechanical means of placing the tie bars in the plastic concrete are approved by the engineer.

Devices may be omitted on the longitudinal construction joint type when in the opinion of the engineer the tie bars will be retained in their proper designated position.

**LONGITUDINAL JOINTS
CONCRETE PAVEMENT**

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

2/3/66
DATE

E. J. Byrd
CHIEF DESIGN ENGINEER

APPROVED
2/6/66
DATE

H. J. ...
STATE HIGHWAY ENGINEER

PLATE NO. 4-4.4.B

GENERAL NOTES 28.4-41

Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions. Steel installing pins of sufficient number, length, and rigidity shall be placed so as to prevent movement of the joint assembly during construction operations.

Details shown hereon make provision for a minimum of structural adequacy and stability to satisfy Standard Specifications requirements.

ALTERNATE DESIGNS

Alternate designs for load transfer dowels for contraction and expansion joints and appurtenances other than shown hereon may be used upon written approval of the Engineer.

CONTRACTION JOINTS

Contraction joints shall be installed at 80' ($\pm 2'$) spacing from adjacent contraction or expansion joints, except that lesser spacings ranging to a minimum of 40' shall be used:

1. At locations or spacing indicated on the plans.
2. As extensions of transverse joints or cracks in abutting pavement lanes.
3. At locations designated by the Engineer where there are manholes or other fixtures in the pavement.

CONSTRUCTION JOINTS

Deformed bars shall be spaced at 12" C:C and 6" from each edge of pavement. Deformed bars may be inserted after the concrete has been poured.

Construction joints shall be installed as necessary, except that a construction joint shall be not less than 10 feet from the nearest contraction or expansion joint.

EXPANSION JOINTS

Expansion joints are required only at structure approaches and/or where shown on the plans. The locations may be shifted to avoid stationary fixtures in the pavement.

Expansion joint filler shall be secured with sufficient number of steel pins to preclude any horizontal movement during the placing of concrete.

Metal dowel socket (CAP), 1 1/16" or 1 5/16" Dia., 24 gauge, closed on one end, shall be placed on the sawed end of each dowel bar as required for proper pavement expansion.

SEALING JOINTS

Joints shall be sealed as shown.

DOWEL BARS

Dowel bars shall be spaced at 12" C:C and 6" from each edge of pavement.

One end of each dowel bar shall be sawed and free of all burrs or protruding edges.

Dowel bars shall be painted with a rust inhibitive paint and coated for at least 2/3 their length with liquid asphalt MC 70 or MC 250, or other approved lubricant, to prevent bonding with concrete. The asphalt coating shall be applied to the sawed and capped end of the dowel bar and shall be sufficiently dry so that it will not be removed by the handling and placing of the dowel assembly.

Dowel bar dimensions:

- For 7" P.C. Pavement = 1" ϕ x 18"
- For 8" P.C. Pavement = 1" ϕ x 18"
- For 9" P.C. Pavement = 1 1/4" ϕ x 18"
- For 10" P.C. Pavement = 1 1/4" ϕ x 18"

TRANSVERSE JOINTS FOR CONCRETE PAVEMENT

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL

5/24/68
DATE

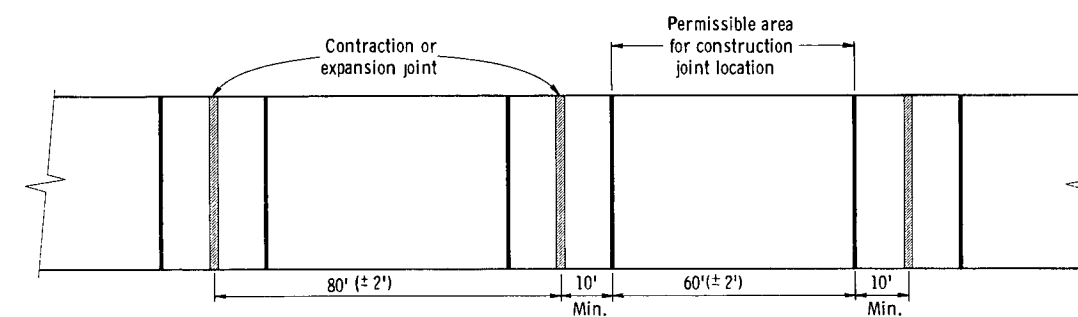
E. J. Byrkit
CHIEF DESIGN ENGINEER

APPROVED

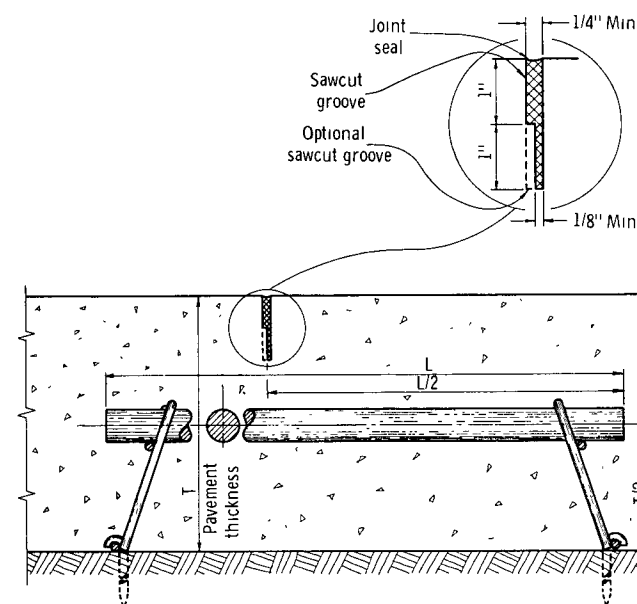
5/27/68
DATE

H. J. Summerville
STATE HIGHWAY ENGINEER

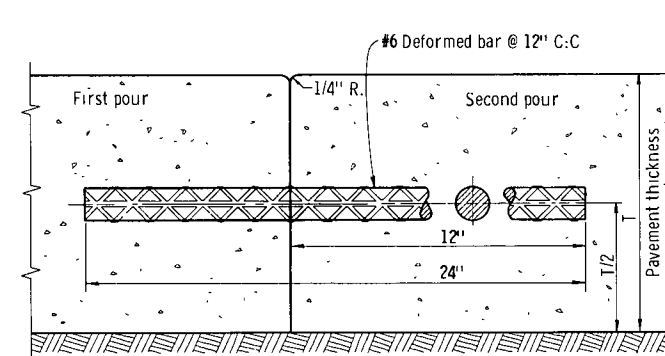
Plate No. 4 - 4.5.11



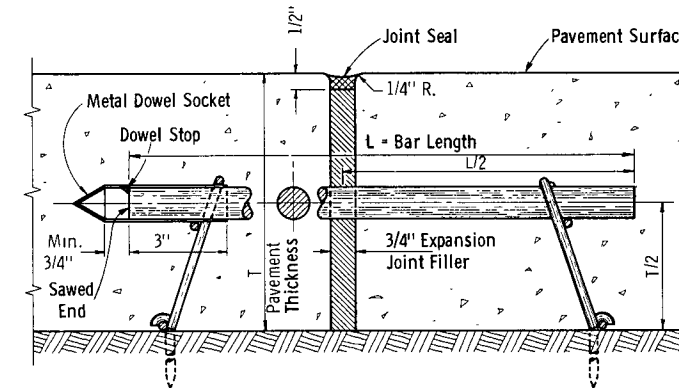
SCHEMATIC SHOWING JOINT LOCATIONS



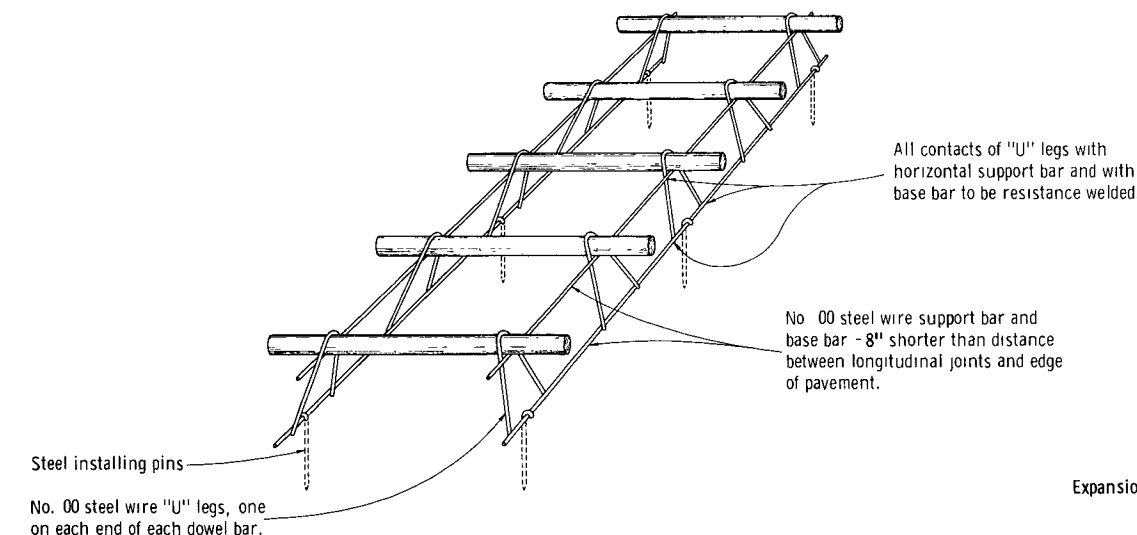
CONTRACTION JOINT



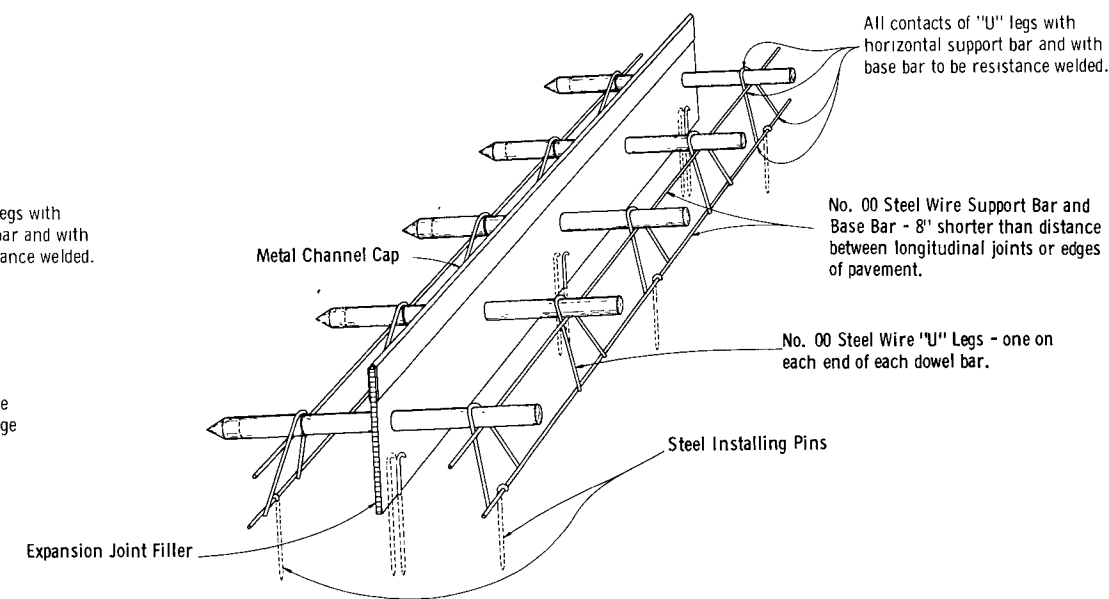
CONSTRUCTION JOINT



EXPANSION JOINT

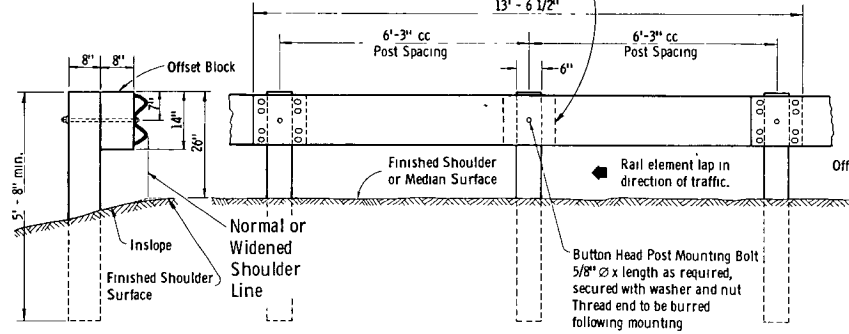


INSTALLING DEVICE FOR LOAD TRANSFER DOWELS
FOR CONTRACTION JOINTS



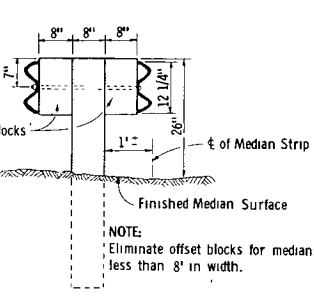
INSTALLING DEVICE FOR LOAD TRANSFER DOWELS
AND EXPANSION JOINT ASSEMBLY

One foot long section of rail element, with a 3/4" slotted hole for mounting, shall be placed behind the continuous rail element at the intermediate posts.

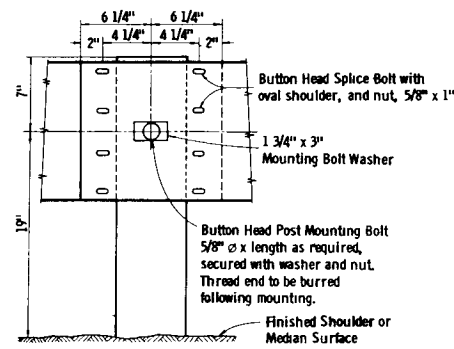


END ELEVATION
STEEL PLATE BEAM GUARD

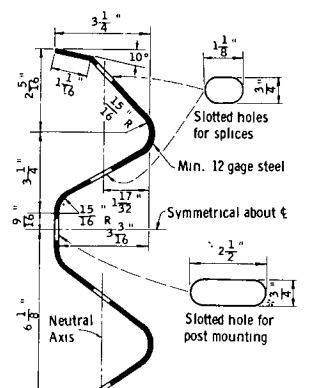
Sawed treated timber posts 6" x 8" x 6'-0" and sawed treated timber offset blocks 6" x 8" x 14" shall be furnished and placed in accordance with Standard Specifications.



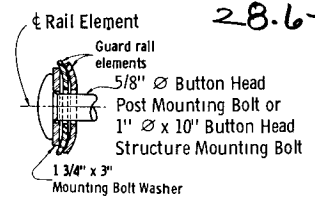
END ELEVATION
STEEL PLATE BEAM MEDIAN GUARD



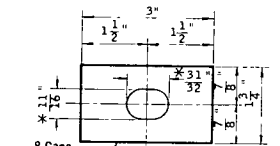
RAIL ELEMENT SPLICING
AND POST MOUNTING DETAILS



SECTION THRU RAIL ELEMENT



MOUNTING BOLT DETAIL



MOUNTING BOLT WASHER

* Hole in Structure Mounting Bolt Washer to be 1 1/16" dia.

28.6-41 GENERAL NOTES

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

The exact location of the beginning and end of each Guardrail installation shall be as shown on the plans or as directed by the engineer.

TERMINATION AT STRUCTURES NOT PROVIDED WITH A NOTCH

For those structures where a notch is not provided, the Guardrail will be terminated as directed by the engineer.

POST FOOTING DETAIL AT PIERS

The Post-Footing Details shall be used when guard-rail posts are over structure footings and less than 3'-6" of earth is provided over the top of the footing.

STEEL PLATE BEAM MEDIAN GUARD

Eliminate offset blocks for medians less than 8 foot in width.

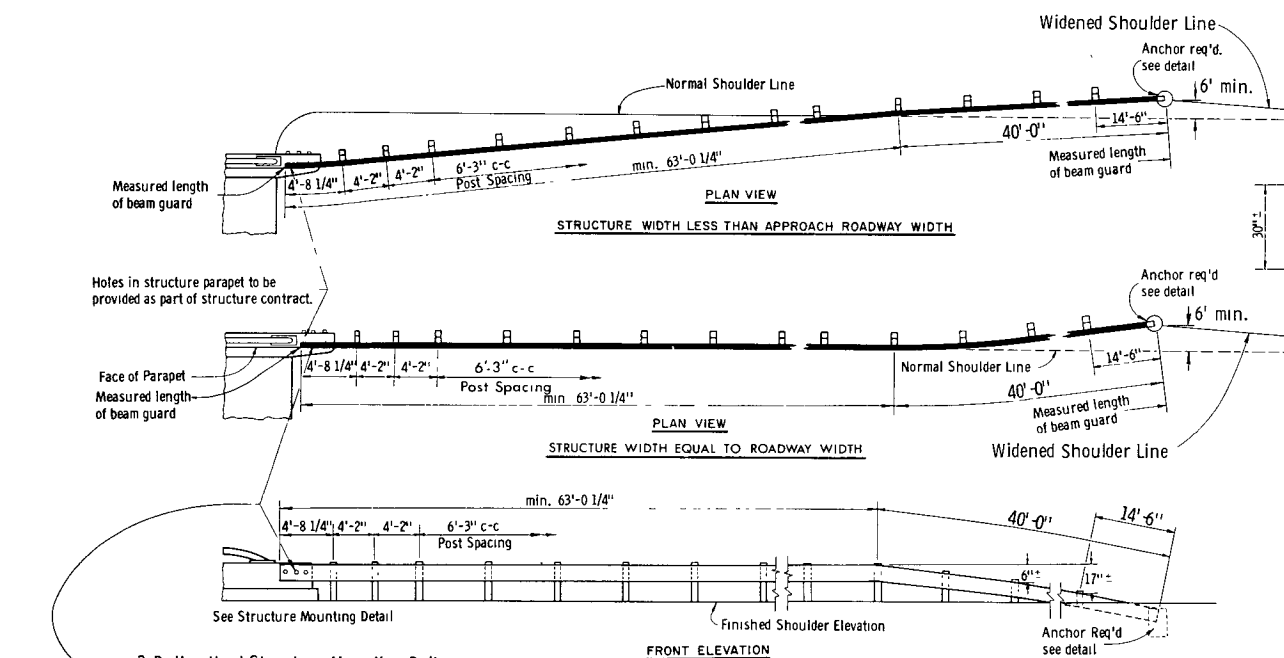
ALTERNATE ANCHORS

Square anchors will be permitted. Square anchors shall be a minimum of 24 inches x 24 inches.

SHOULDER WIDENING

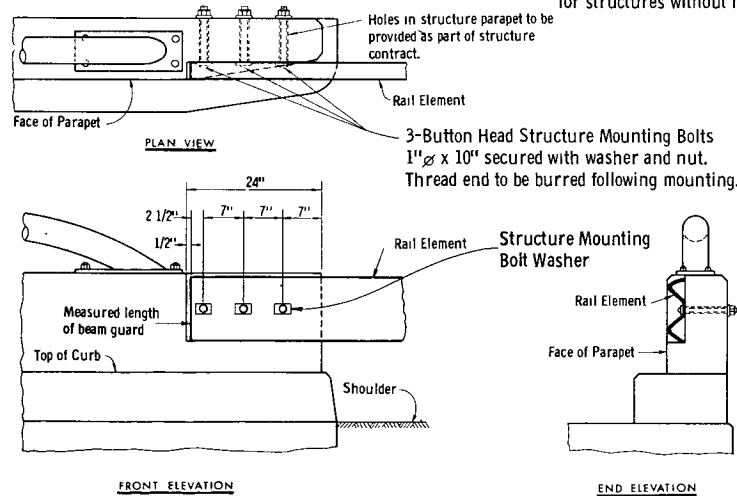
The shoulder widening to accommodate the anchored end of the Guardrail shall be accomplished at a rate of widening not to exceed 50 to 1.

STEEL PLATE BEAM GUARD OR STEEL PLATE BEAM MEDIAN GUARD

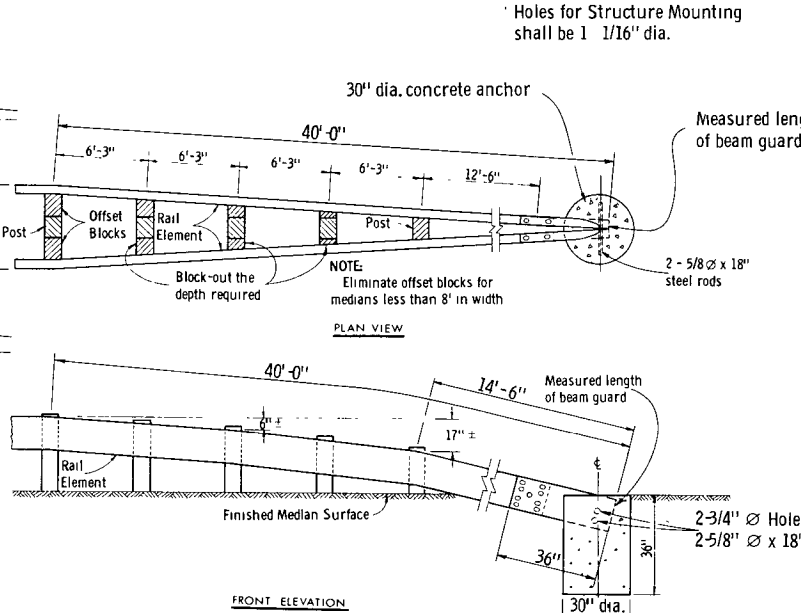


TYPICAL INSTALLATION AT STRUCTURES

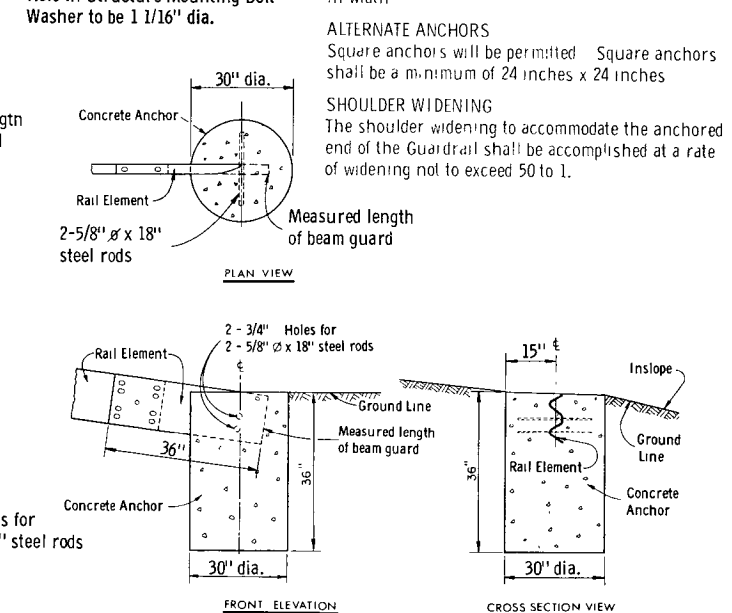
For structures constructed with notch to receive beam guard. See General Notes for structures without notch.



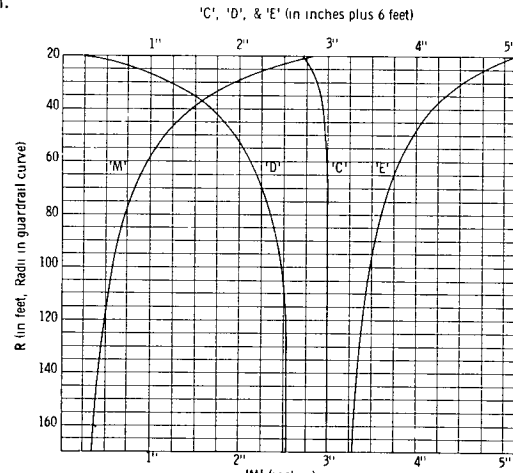
STRUCTURE MOUNTING DETAIL



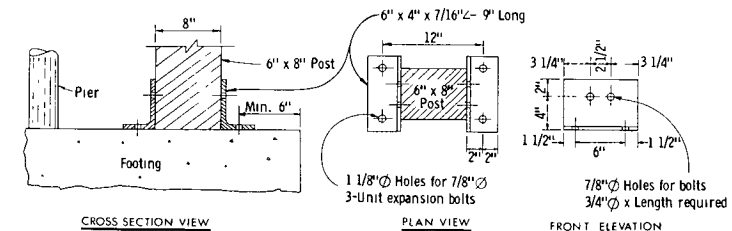
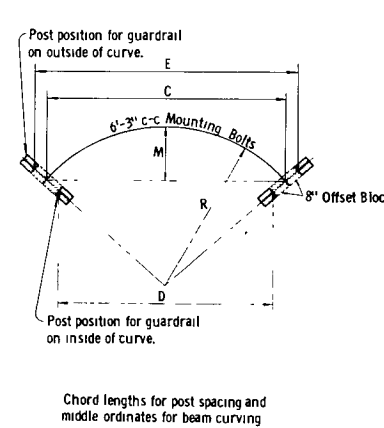
ANCHOR DETAIL
FOR DOUBLE RAIL ELEMENT INSTALLATION



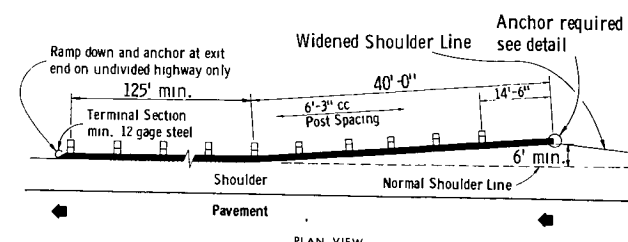
ANCHOR DETAIL
FOR SINGLE RAIL ELEMENT INSTALLATION



CURVE DATA FOR POST SPACING AND BEAM CURVING



POST-FOOTING DETAIL AT PIERS



TYPICAL INSTALLATION AT
LOCATIONS OTHER THAN STRUCTURES

STEEL PLATE BEAM GUARD & STEEL PLATE BEAM MEDIAN GUARD

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL
1/25/68
E.J. Rydman
CHIEF DESIGN ENGINEER
APPROVED
7/8/68
L.F. Summerville
STATE HIGHWAY ENGINEER

287-41

GENERAL NOTES

The contractor shall construct, place and maintain barricades as shown on the drawing and as required by the Standard Specifications or applicable Special Provisions.

CLASS 1 BARRICADE:

Class 1 Barricades shall be of variable length as indicated, and long barricades shall be assembled from these units. The Class 1 Barricade is the type normally required for major operations, where the barricade will remain in place for extended periods. Class 1 Barricades shall be used at points where the road is closed to traffic. Gates or movable sections of a barricade shall be provided when necessary, for access of equipment or other authorized vehicles. Wing Barricades are Class 1 Barricades erected on the shoulder on one or both sides of the pavement to give Traffic the perceptive effect of a narrowing or restricted roadway. The ends closest to traffic of all three members of a wing barricade shall be in a vertical line. If used in a series, they should start at the outer edge of the shoulder and be brought progressively closer to the pavement. Wing Barricades may be used as a mounting for the advance warning or guide signs or for flashers. When used on two-way roadways, the back of the wing barricade shall be painted reflectorized white.

CLASS 11 BARRICADE:

Class 11 Barricades may be used only where the hazard to traffic is relatively small, and for the more or less continuous delimiting of a restricted roadway, or for temporary daytime use.

MATERIAL & FABRICATION:

Lumber shall be of a grade structurally sound and sufficiently rigid to satisfactorily support and maintain the purpose and intent of a barricade facility. Metal shall be sufficiently rigid to satisfactorily support and maintain the purpose and intent of a barricade facility. The fabrication of the barricade shall be in accord with good pertinent woodworking and metalworking practices. All lumber or timber dimensions stated are nominal.

PAINTING:

All barricades shall be painted in alternate 4" or 6" black and white stripes at a 45° angle. The width of stripe shall be consistent for each complete barricade installation. Black stripes shall be painted with weather resistant and durable black paint. White stripes shall be primed, followed by two coats of white reflectorized paint or reflective wide angle sheeting.

DIRECTION OF DIAGONAL STRIPES:

Where a barricade extends entirely across the roadway with no vehicle access provision, the stripes shall slope downward toward the highway centerline. Where vehicle access is permitted, the stripes shall slope downward in the direction toward which vehicles must turn in detouring. Where both right and left turns are provided for, the stripes shall slope downward in both directions from the center. The stripes on wing barricades shall point downward toward the roadway.

LIGHTING:

Lighting devices for barricades shall conform to the requirements of the Standard Specifications.

MEASUREMENT & PAYMENT:

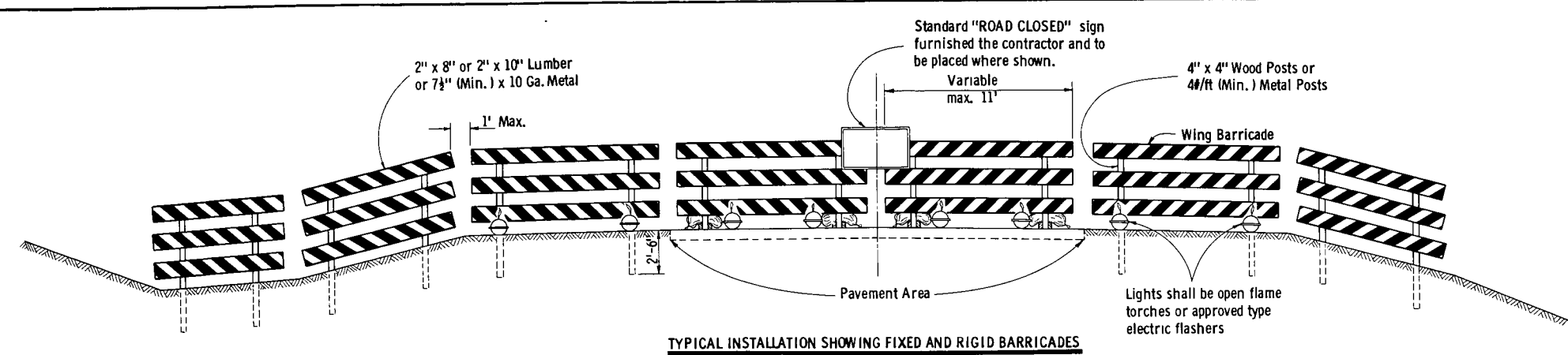
All barricades, unless otherwise provided for in the plans and/or special provisions shall be furnished, placed, and maintained as noted above, and no additional compensation will be allowed but shall be construed to be included in the price bid for other items.

Alternate black & white stripes. See General Notes for direction of stripes

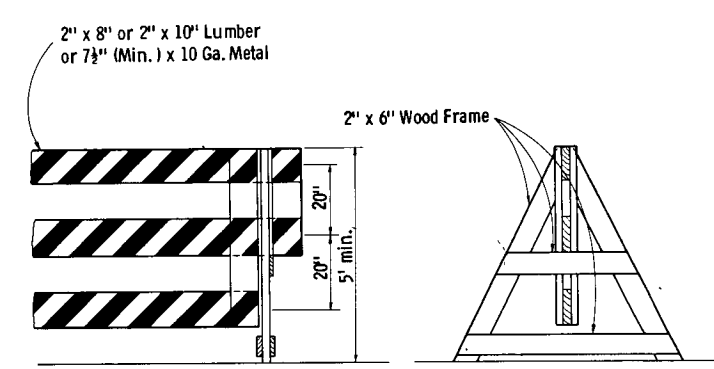
4" or 6" but consistent for each barricade installation



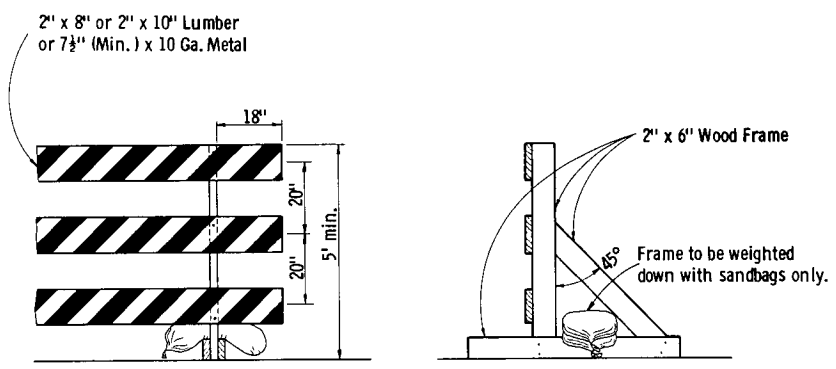
TYPICAL DIAGONAL STRIPES
Applies to all Classes & Types of Barricades



TYPICAL INSTALLATION SHOWING FIXED AND RIGID BARRICADES

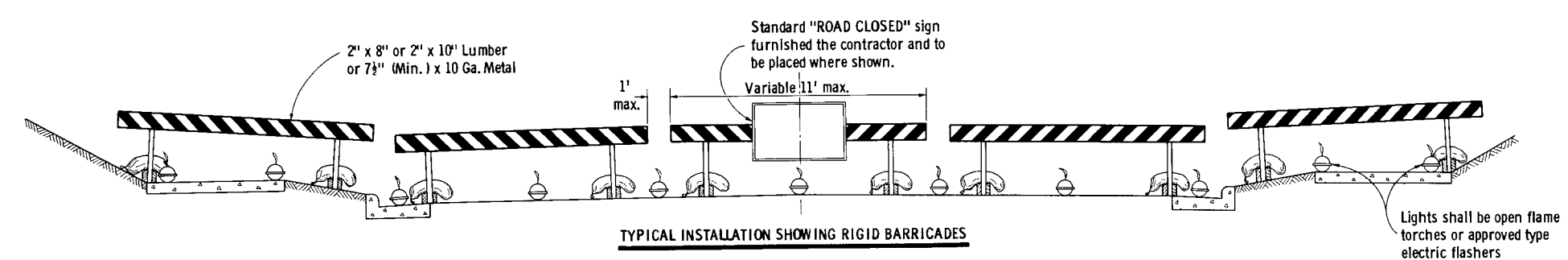


ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

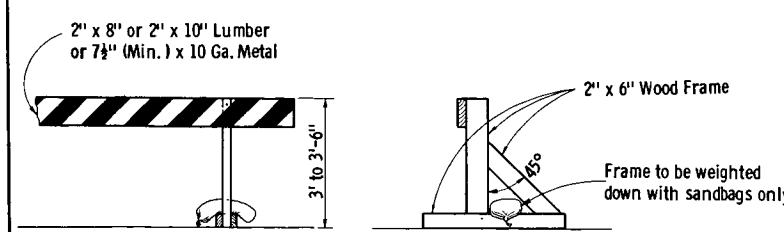


ALTERNATE TYPE INSTALLATION (RIGID)

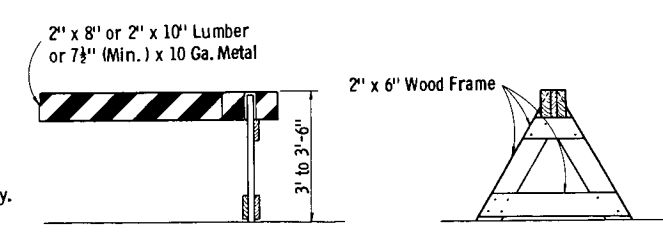
CLASS I BARRICADES



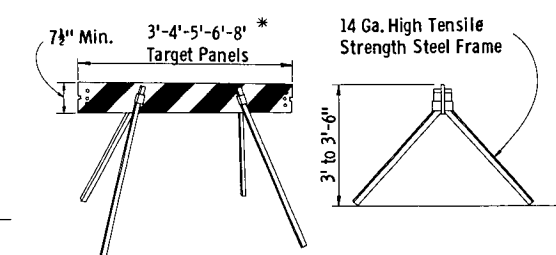
TYPICAL INSTALLATION SHOWING RIGID BARRICADES



ALTERNATE TYPE INSTALLATION (RIGID)



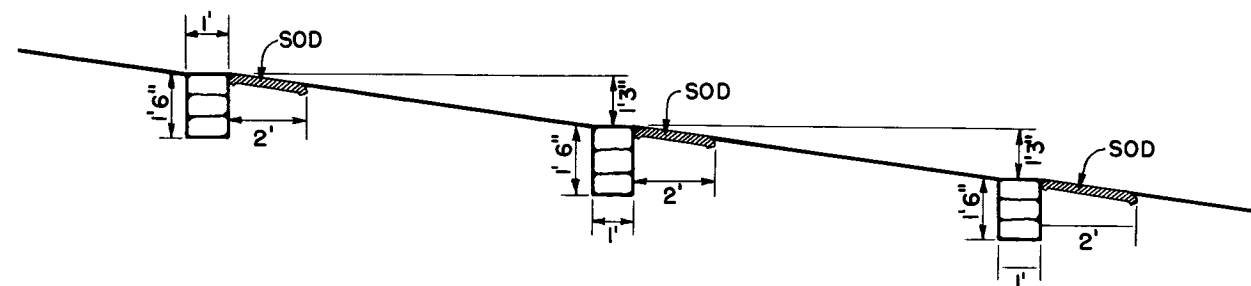
ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)



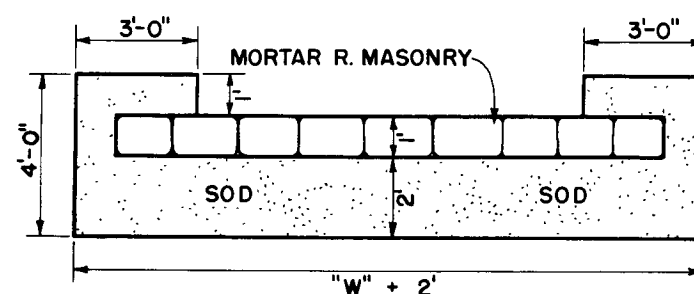
ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

CLASS II BARRICADES

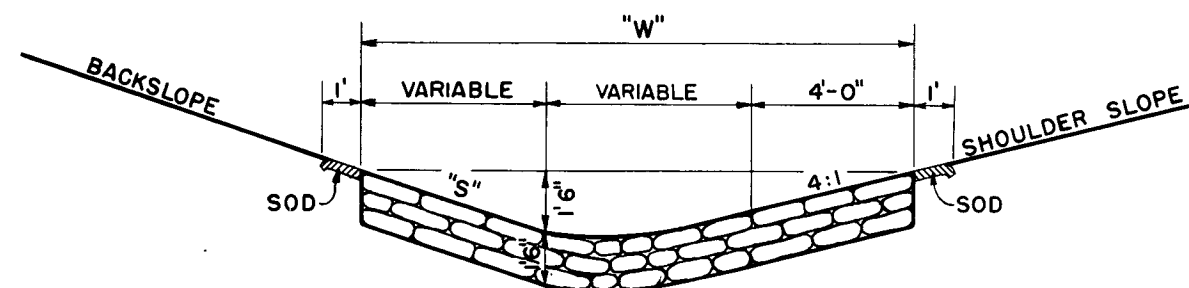
CONSTRUCTION BARRICADE	
State Highway Commission of Wisconsin	
RECOMMENDED FOR APPROVAL	DATE
1/11/67	1/11/67
APPROVED	DATE
1/13/67	1/13/67
 CHIEF DESIGN ENGINEER	
 STATE HIGHWAY ENGINEER	



PROFILE OF DITCH GRADE



PLAN VIEW SHOWING SOD



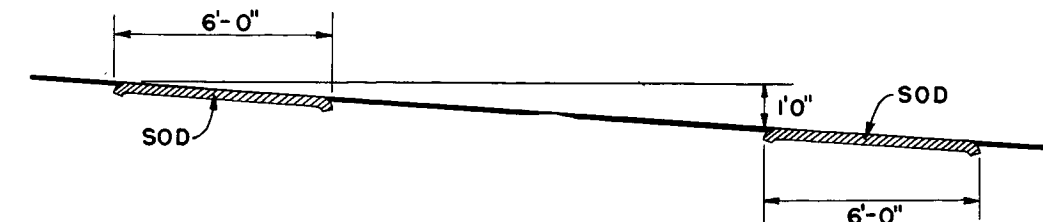
SECTION

MORTAR RUBBLE MASONRY

QUANTITIES			
"S"	"W"	SOD SQ. YD.	EACH CU. YD.
2:1	12'	4.0	0.67
3:1	13.5'	4.33	0.75
4:1	15'	4.67	0.83

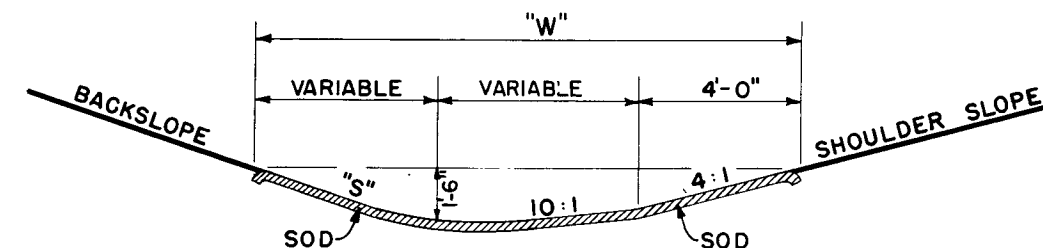
CONSTRUCTION NOTES

DETAILS OF CONSTRUCTION NOT SHOWN SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PROFILE OF DITCH GRADE

NOTE: NUMBER REQUIRED WILL BE DETERMINED BY VERTICAL SPACING.



SECTION

SOD DITCH CHECKS

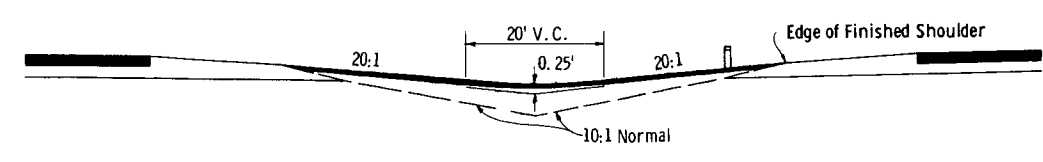
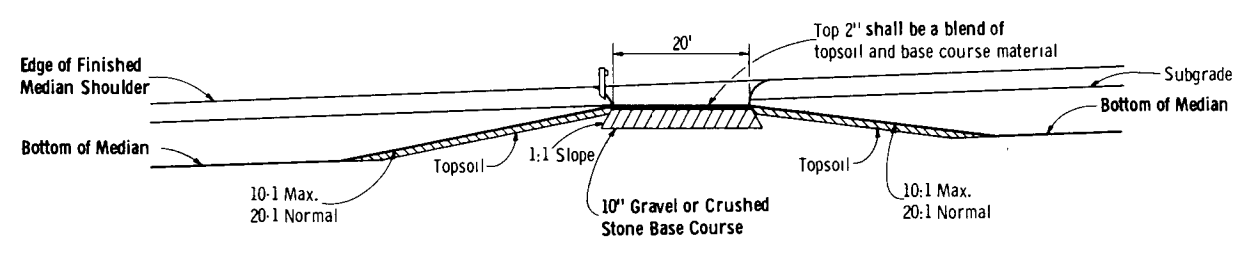
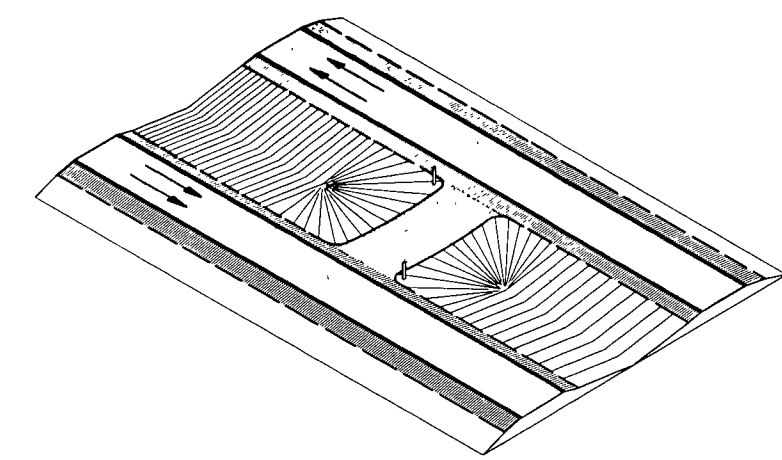
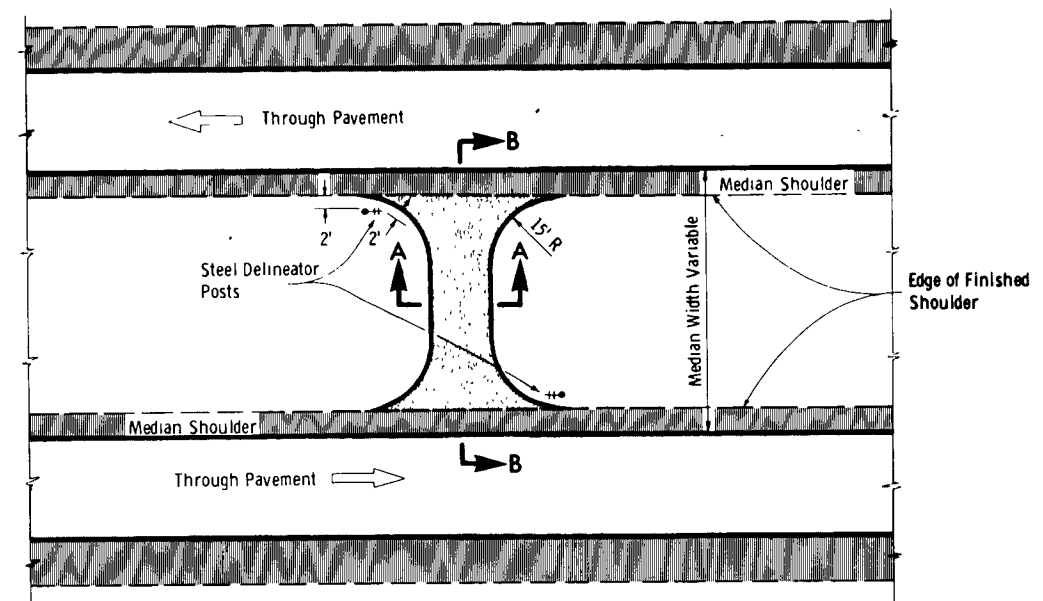
QUANTITIES		
"S"	"W"	EACH SQ. YD.
2:1	12'	8
3:1	13.5'	9
4:1	15'	10

DITCH CHECKS	
MORTAR RUBBLE MASONRY & SOD	
STATE HIGHWAY COMMISSION OF WISC.	
RECOMMENDED FOR APPROVAL:	
 DESIGN ENGINEER	
 CONSTRUCTION ENGINEER	
DATE:	
APPROVED:	
 STATE HIGHWAY ENGINEER	

8-1.3.1

8-1.3.1

28.9-41



GENERAL NOTES

Blend sufficient topsoil with the top 2 inches of the base course material to provide a seed bed and to subdue the stone color. The entire surface shall be fertilized and seeded.

Details of construction shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

MAINTENANCE CROSSOVER FOR FREEWAYS

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL
DATE 1/25/68
APPROVED
DATE 2/9/68

EJ B...
CHIEF DESIGN ENGINEER

H...
STATE HIGHWAY ENGINEER

Plate No. 13-1.1.1

Plate No. 13-1.1.1