STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1521-3-71	F077(1)	1

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED

NEILLSVILLE – E. CO. LINE RD.

S.T.H. 95 TO E. CO. LINE

S.T.H. 73

CLARK COUNTY

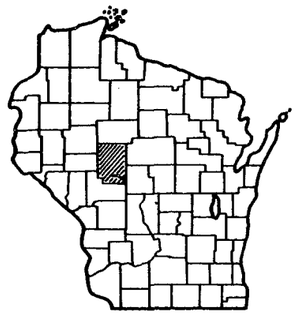
STATE PROJECT NUMBER

1521-3-71

AS BUILT

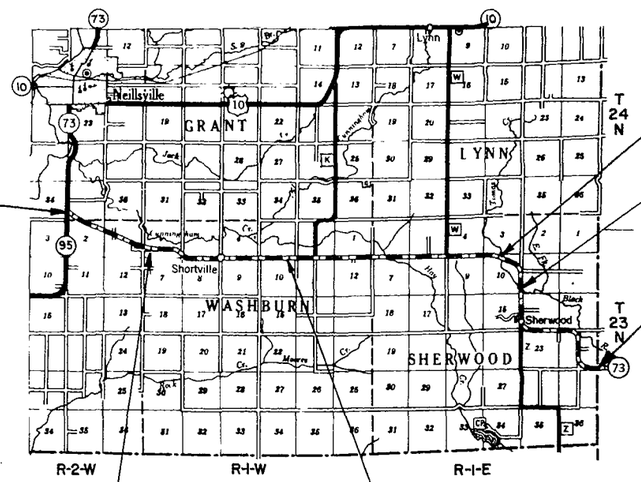
Index of Sheets

TOTAL SHEETS = 42 50



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

BEGIN PROJECT 1521-3-71
STA. 5+00
N. 248,250 ± 200'
E. 1,834,000 ± 200'
APPROX. 1214' N. AND 89' E. OF THE S.E. COR. SEC. 34, T24N, R 2 W.



N

EXCEPTION TO NET ℄ LENGTH
STA. 630+10 – STA. 630+70
B-10-5

EXCEPTION TO NET ℄ LENGTH
STA. 697+80 – STA. 698+50
B-10-6

END PROJECT 1521-3-71
STA. 888+95.5
N. 226,300 ± 200'
E. 1,917,500 ± 200'
APPROX. AT THE S.E. COR. OF SEC. 24, T 23 N, R 1 E.

EXCEPTION TO NET ℄ LENGTH
STA. 335+61.5 – STA. 335+86.5
B-10-984

EQUATION STA. 136+05.23 BK. = STA. 143+24.00 AH.

Design Designation

A.D.T. (1978)	= 700
A.D.T. (1998)	= 980
D.H.V.	= 176
D.	= 60-40
T.	= 10.7
V.	= 60 M.P.H.

Conventional Signs

County Line
Township or Range Line
Section Line
New Right of Way Line
Present Right of Way Line
Wire Fence (type)
Corporate or City Limits
Property Line P.L.
Traveled Way or P.E.
Railroads
Base or Survey Line
Caution Symbol (combustible fluids under pressure) CAUTION

Culverts in Place
Culverts Required
Drop Inlet
Power Pole
Telephone or Telegraph Pole
Right of Way Markers
Reference Stake for Hubs Only +61.7
Marsh 25.9
Hedge
Trees
Ground Elevation Datum Line 25.9
Grade Elevation Datum Line 26.8

Layout

Scale 1 in. = 2 Miles

Total Net Length of Centerline = 16.576 Mi. RURAL

ALL CO-ORDINATES SHOWN ON THIS PLAN ARE REFERENCED TO THE WISCONSIN CO-ORDINATE SYSTEM, CENTRAL ZONE, AND ARE SCALED FROM U.S.G.S. TOPOGRAPHIC MAPS NEILLSVILLE & CITY POINT WISCONSIN QUADRANGLES FOR IDENTIFICATION ONLY.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Surveyor D.L.W. District Checker R.D.F.
Designer GEO & P.T.B. C O Checker R.L.C.
District Supervisor L.A.F. C O Monitor DW

Approved:
Date 9/28/77 M J Schaffer District Engineer

Approved:
Date 10-28-77 D L Strand Chief of Facilities Development

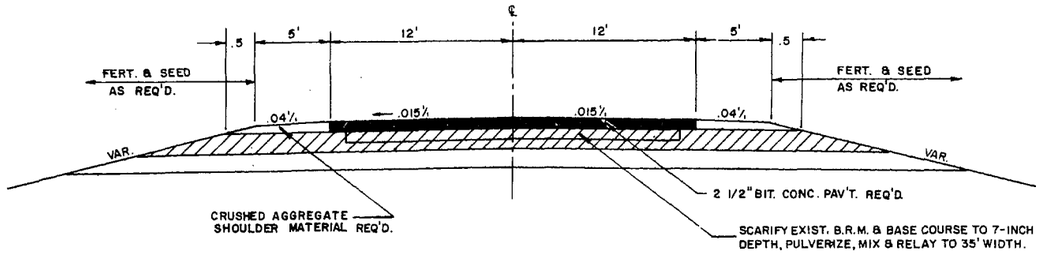
Approved:
Date 10/31/77 H L Fiedler State Highway Engineer

U S DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
REGION 5 WISCONSIN DIVISION

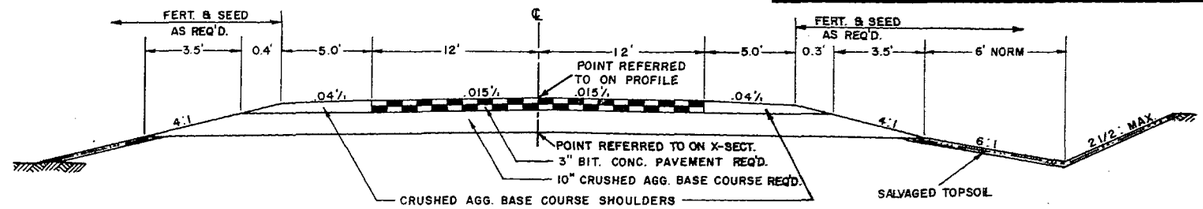
Approved
Date _____ Division Engineer

Cat. No. 2130 - 0110

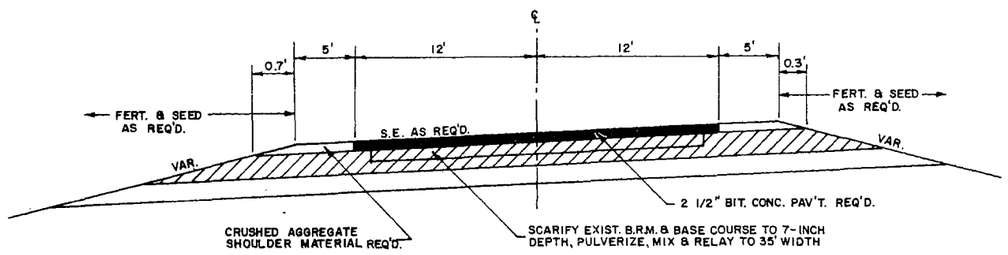
STATE PROJECT NUMBER	SHEET NO.
1521 - 03 - 71	2



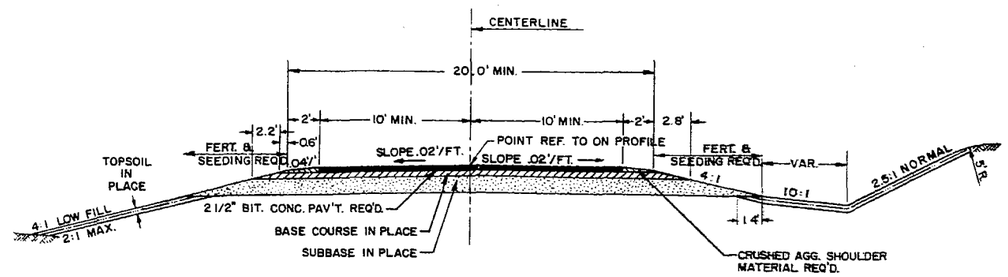
TYPICAL RECYCLED SECTION
S.T.H. 73



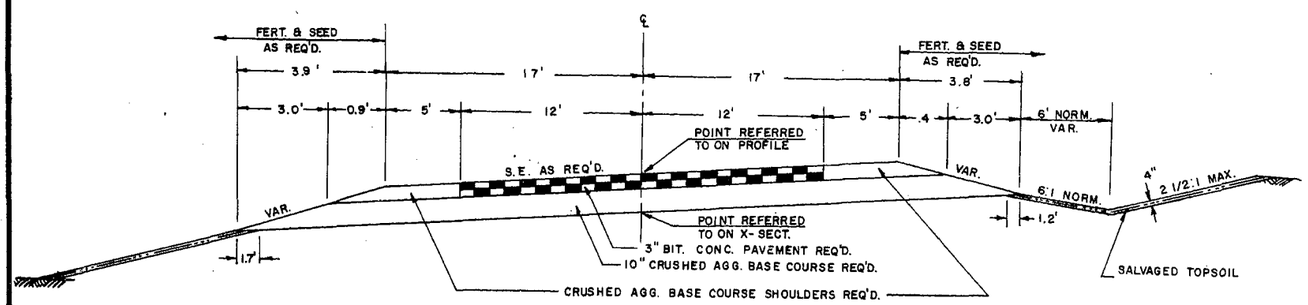
TYPICAL TANGENT SECTION FOR RECONSTRUCTION S.T.H. 73
STA. 561+93 TO STA. 576+00
STA. 758 +80 TO STA. 762+00



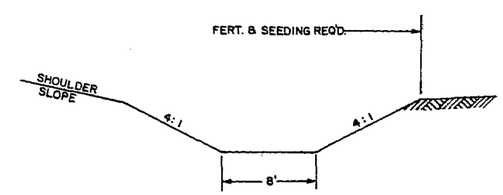
TYPICAL SUPERELEVATED RECYCLED SECTION
S.T.H. 73



TYPICAL FINISHED SECTION FOR TOWN ROAD & C.T.H. CONNECTIONS



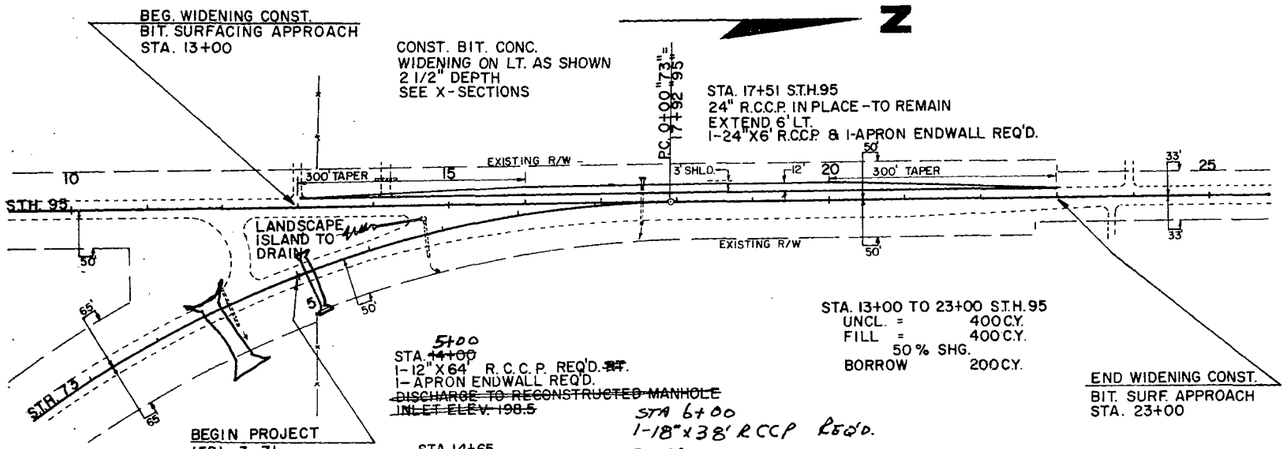
TYPICAL SUPERELEVATED SECTION FOR RECONSTRUCTION S.T.H. 73
STA. 558+00 TO STA. 561+93 S.E. .03'/'
STA. 748+00 TO STA. 758+90 S.E. .06'/'



TYPICAL FOR DRAINAGE DITCHES
293±00 TO 310±00 LT. & RT.

STATE PROJECT NUMBER	SHEET NO.
1521 - 3 - 71	2.1

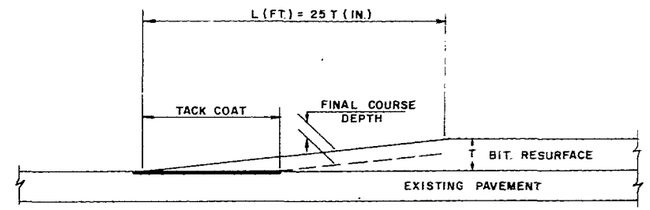
NEILLSVILLE - EAST COUNTY LINE ROAD
S.T.H. 73 CLARK COUNTY



BENCH MARKS

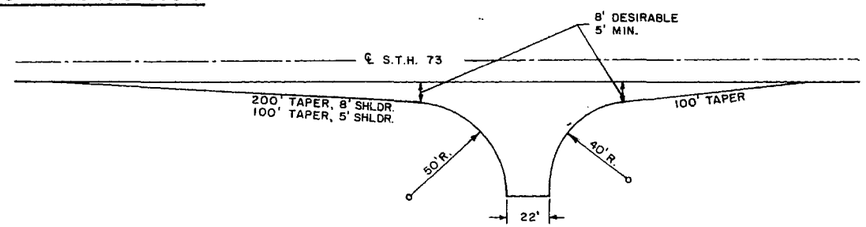
NO.	STA.	DESCRIPTION	ELEV.
1	13+18	POWER POLE 130' RT.	200.00

LAYOUT FOR S.T.H. "73" & "95" INTERSECTION



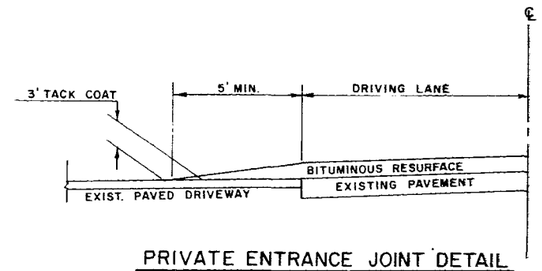
FEATHER JOINT DETAIL

USE AS DIRECTED BY THE ENGINEER

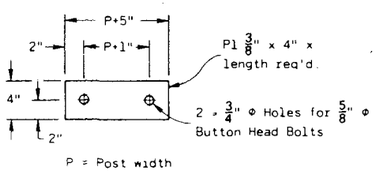


TYPE "C" MODIFIED

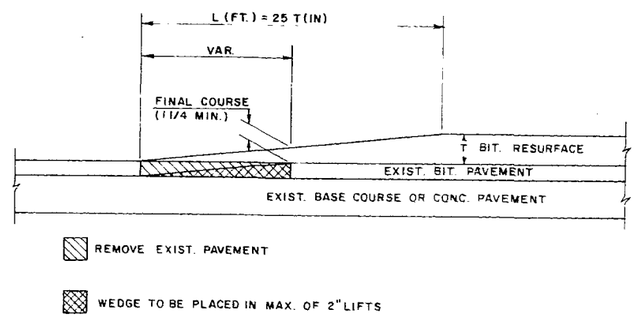
DETAIL FOR C.T.H. INTERSECTIONS



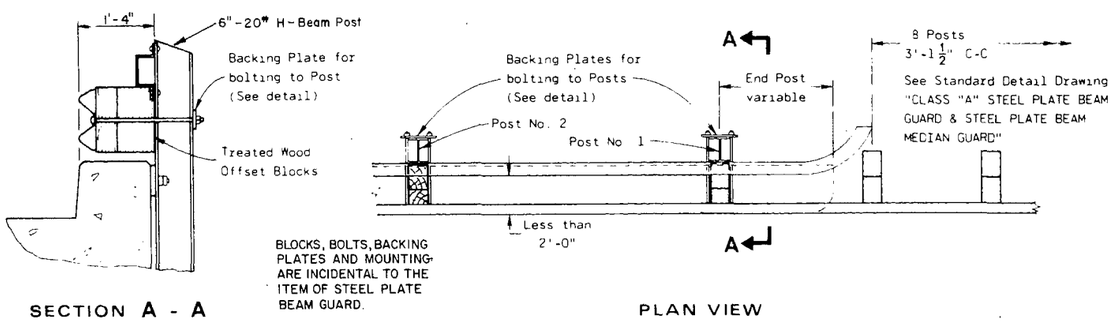
PRIVATE ENTRANCE JOINT DETAIL



BACKING PLATE



BUTT JOINT DETAIL



BLOCKS, BOLTS, BACKING PLATES AND MOUNTING ARE INCIDENTAL TO THE ITEM OF STEEL PLATE BEAM GUARD.

SECTION A - A

PLAN VIEW

DETAIL FOR ATTACHING STEEL PLATE BEAM GUARD TO BRIDGES B-984, B-10-5, B-10-6

ESTIMATE OF QUANTITIES

CONTRACT NO. 1

BITUMINOUS RESURFACING &
GRADING, BASE, & BIT. SURFACE (2 SECTIONS)

STATE PROJECT NUMBER	SHEET
1521-3-71	3

CONTRACT	STATION TO STATION	NET LENGTH OF CENTER LINE	REMOVING BITUMINOUS SURFACE	REMOVING GUARD RAIL	UNCLASSIFIED EXCAVATION	BORROW EXCAVATION	FINISHING ROADWAY PROJECT 1521-3-71	CRUSHED AGGREGATE BASE COURSE	BITUMINOUS CONCRETE PAVEMENT	BITUMINOUS MATERIAL FOR SURFACE COURSE	METAL APRON ENDWALLS FOR CULVERT PIPE, 18 INCH	METAL APRON ENDWALLS FOR CULVERT PIPE, 24 INCH	METAL APRON ENDWALLS FOR CULVERT PIPE, 30 INCH	REINFORCED CONCRETE CULVERT PIPE, CLASS III, 12 INCH	REINFORCED CONCRETE CULVERT PIPE, CLASS III, 18 INCH	REINFORCED CONCRETE CULVERT PIPE, CLASS III, 24 INCH	REINFORCED CONCRETE CULVERT PIPE, CLASS III, 30 INCH	REINFORCED CONCRETE CULVERT PIPE, CLASS III, 48 INCH	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 12 INCH	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 18 INCH	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 24 INCH	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 30 INCH	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 48 INCH
	ITEM NO.		20402	20411	20503	20801	21302	30404	40701	40702	52146	52148	52149	52201	52203	52205	52207	52211	52260	52262	52264	52266	52269
	UNIT	LIN FT.	S.Y.	LIN.FT.	C.Y.	C.Y.	L.S.	TON	TON	TON	EACH	EACH	EACH	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	EACH	EACH	EACH	EACH	EACH
1	5+00 TO 888+95.50	87,521.73	110	460	10,900	450	1	*24,000	37,250	2240	2	2	6	64	58	274	304	108	1	4	15	10	4

* INCLUDES 14,600 TONS OF SHOULDER MATERIAL

CONTRACT	RECONSTRUCTING MANHOLES	MANHOLE COVERS, TYPE L	ANCHORAGES FOR STEEL PLATE BEAM GUARD	STEEL PLATE BEAM GUARD CLASS A	MAINTENANCE AND REPAIR OF HAUL ROADS 1521-3-71	MOBILIZATION PROJECT 1521-3-71	SALVAGED TOPSOIL	ON THE JOB TRAINING	FERTILIZER	SEEDING	FIELD OFFICE, TYPE B	FIELD LABORATORY	TRAFFIC CONTROL PROJECT 1521-3-71		RECYCLE SURFACING	CORRUGATED METAL CULVERT PIPE, 24 INCH	CORRUGATED METAL CULVERT PIPE, 30 INCH	REINFORCED CONCRETE CULVERT PIPE, CLASS III, 72 INCH	REINFORCED CONCRETE APRON END-WALLS FOR CULVERT PIPE, 72 INCH	SALVAGED CULVERT PIPE, 42 INCH	SALVAGED CULVERT PIPE, 48 INCH	CONCRETE CURB, TYPE "J"		
	61128	61153	61406	61408	61802	61911	62505	90003	62901	63002	64202	64210	64302		90001	52107	52109	52215	52273	52412	52413	60104		
	EACH	EACH	EACH	LIN.FT.	L.S.	L.S.	S.Y.	HOURS	CWT.	LB.	L.S.	L.S.	L.S.		STA.	LIN.FT.	LIN.FT.	LIN. FT.	EACH	LIN.FT.	LIN.FT.	LIN.FT.		
1	1	1	12	1848	** 1	1	14,000	1,000	54	2040	1	1	1		843	8	12	50	2	48	24	125		

** NO FEDERAL PARTICIPATION

STATE PROJECT NUMBER	SHEET NO.
1521 - 3 - 71	3A

NEILLSVILLE - EAST COUNTY LINE ROAD
S.T.H. 73 CLARK COUNTY

DETAIL SUMMARY OF MISCELLANEOUS QUANTITIES

REMOVING BITUMINOUS CONCRETE SURFACING

STATION	LOCATION	S.Y.
5+70 RT.	S.T.H. 95 INTERSECTION *	10
335+74	BRIDGE B-984	70
372+93	C.T.H."K" *	10
557+07	C.T.H."W" *	10
742±00	C.T.H. "Z" *	10

*BUTT JOINTS

REMOVING GUARDRAIL

STATION	TO	STATION	LOCATION	LIN. FT.
335+45	-	335+70	LT.& RT.	50
335+95	-	336+20	LT.& RT.	50
629+85	-	630+10	LT.& RT.	50
630+70	-	630+95	LT.& RT.	50
697+55	-	697+80	LT.& RT.	50
698+50	-	698+70	LT.& RT.	50
738±00	-	739±60	RT.	160

STEEL PLATE BEAM GUARD. CLASS "A"

STATION	TO	STATION	LOCATION	LIN.FT.	ANCHORAGES
334+32	-	337+15	LT.& RT.	566	4
628+91	-	631+99	LT.& RT.	616	4
696+48	-	699+81	LT.& RT.	666	4

CONCRETE CURB. TYPE "J"

STATION	LOCATION	LIN.FT.
742±30	RT.	125

SURFACING, BASE COURSE AND EROSION CONTROL

LOCATION	BIT. CONC. PAVT. TONS	BIT. MAT. FOR SURF. COURSE TONS	CR. AGG. BASE COURSE TONS	CR. AGG. BASE COURSE SHLDR. MAT. TONS	SALVAGED TOPSOIL S.Y.	SEEDING LB.	FERTILIZER CWT.
S.T.H. 73 & S.T.H. 95 CONNECTION	170	10	700	100	1500	27	1
MAINLINE S.T.H. 73							
STA. 5+00 TO 558+00	21,459	1288		8730		982	25
STA. 558+00 TO 576+00	840	50	4212	342	6500	120	4
STA. 576+00 TO 748+00	6,714	403		2731		307	8
STA. 748+00 TO 762+00	653	39	3276	266	5800	190	3
STA. 762+00 TO 888+95.5	4,994	300		2031		230	6
SIDE ROAD CONNECTIONS	2,025	122	810	270			
DRAINAGE DITCH LT.& RT. STA. 293+00 TO 310+00						140	4
UNDISTRIBUTED MISC.	395	28	402	130	200	44	3

CULVERT PIPE / APRON ENDWALLS

STATION	LOCATION	DIAMETER (INCHES)	LENGTH (LIN.FT.)	APRON ENDWALLS REINFORCED CONCRETE EACH	APRON ENDWALLS METAL EACH	REMARKS
REINFORCED CONCRETE CULVERT PIPE CLASS III						
~~14+80~~	~~S.T.H.95 INTER.~~	~~12~~	~~64~~	~~1~~		ISLAND DRAIN TO MANHOLE
17+51	S.T.H.95 LT.	24	6	1		EXTENSION
219+15	℄	48	108	4		TWIN CULVERTS
293+75	TN.RD. LT.	24	50 44'	2		INLET EL. 204.7
293+75	TN.RD. RT.	24	52 44'	2		INLET EL. 203.9
298±30	F.E. LT.	24	30 26'	2		
298±30	F.E. RT.	24	30 26'	2		
304+10	℄	72	50	2		INLET EL. 200.6
306±70	F.E. LT.	24	30 26'	2		
306±70	F.E. RT.	24	30 26'	2		
488+27	℄	30	50 56'	2		
521+04	℄	30	46 58'	2		
528+00	℄	30	56 60'	2		SKEW ± 5° R.H.F.
532+66	℄	24	46 54'	2		
752+60	℄	30	96 24'	2		SKEW ± 45° R.H.F.
759+11	P.E. LT.	18	32	2		
760+48	P.E. RT.	18	26	2		
870+00	℄	30	56 60'	2		
SALVAGED CULVERT PIPE						
465+14	℄	42	48			TWIN PIPE, REMOVE, RELAY & TIE
465+14	℄	48	24			REMOVE, RELAY & TIE
CORRUGATED METAL CULVERT PIPE .079 THICK STEEL						
475±87	℄	24	8		2	REPLACE 4' AT INLET & DISCH.
548+00	℄	30	8		2	REPLACE 4' AT INLET & DISCH.
560+85	℄	30	-		2	METAL APR.ENDW. FOR EXIST.C.M.C.P.
573+80	P.E. RT.	18	-		2	METAL APR.ENDW. FOR EXIST.C.M.C.P.
607+21	℄	30	4		2	REPLACE 4' AT INLET

GENERAL NOTES

CURVE DATA IS BASED ON ARC DEFINITION.

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

DISTURBED AREAS, WITHIN THE RIGHT OF WAY, EXCEPT THE AREA WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE FERTILIZED AND/OR SEEDED AS DIRECTED BY THE ENGINEER.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS UNCLASSIFIED EXCAVATION. THE LOCATION FOR EBS WILL BE DETERMINED BY THE ENGINEER.

UNLESS OTHERWISE SHOWN ON THE PLANS, ALL INTERSECTIONS SHALL BE TYPE "C" AS SHOWN ON THE STANDARD DETAIL DRAWING.

WHEN THE QUANTITY OF THE ITEMS OF SUBBASE BASE 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.

TOPSOIL SHALL BE PLACED AS SHOWN ON THE TYPICAL SECTION TO AN APPROXIMATE DEPTH OF 4 INCHES AT THE TIME OF PLACEMENT.

UTILITIES

CLARK COUNTY ELECTRIC CO-OPERATIVE
GREENWOOD, WISCONSIN 54437
H.M.BERGMAN 715-267-6188

MIDWAY TELEPHONE
202 EAST OGDEN STREET
MEDFORD, WISCONSIN 54451
SY PERNSTEINER 715-748-3500

STANDARD ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC	MAG.	MAGNETIC
AGG.	AGGREGATE	MAT.	MATERIAL
AH.	AHEAD	M.H.	MAN HOLE
AZ.	AZIMUTH	M.L.	MATCH LINE
		MON.	MONUMENT
B.M.	BENCH MARK		
B	BARN		
BIT.	BITUMINOUS	P.C.	POINT OF CURVATURE
BK.	BACK	P.E.	PRIVATE ENTRANCE
B.R.M.	BITUMINOUS ROAD MIX	PED.	PEDESTAL
		P.I.	POINT OF INTERSECTION
CONST.	CONSTRUCT -...TION	P.L.	PROPERTY LINE
C.&G.	CURB & GUTTER	P.O.S.T.	POINT ON SUB TANGENT
C.B.	CATCH BASIN	P.O.T.	POINT ON TANGENT
CEM.	CEMETERY	P.T.	POINT OF TANGENCY
CH.	CHAINS		
CH.	CHANNELIZATION	REQ'D.	REQUIRED
CL.	CLASS	REINF.	REINFORCED
℄	CENTERLINE	R	RADIUS - RANGE
CMCP	CORRUGATED METAL CULVERT PIPE	RCCP	REINFORCED CONCRETE CULVERT PIPE
CONN.	CONNECTION	RD.	ROAD - RODS
COR.	CORNER	R.H.F.	RIGHT HAND FORWARD
C.P.	CULVERT PIPE	℄	REFERENCE LINE
C.Y.	CUBIC YARDS	R/W	RIGHT OF WAY
COMM.	COMMERCIAL	RDWY.	ROADWAY
		SURF.	SURFACE
		S	SHED
Δ	DELTA-INTERSECTION ANGLE	SAN.S.	SANITARY SEWER
D	DEGREE OF CURVE-DIRECTION	SCH.	SCHOOL
DHV	DESIGN HOURLY VOLUME	S.E.	SUPERELEVATION
D.G.	DITCH GRADE	SEC.	SECTION
E	EXTERNAL DISTANCE	SHR.	SHRINKAGE
ET AL	AND OTHERS	SL.	SLOPE
EXC.	EXCAVATION	S.S.	STORM SEWER
F.E.	FIELD ENTRANCE	STA.	STATION
		S.S.D.	STOPPING SIGHT DISTANCE
G	GARAGE	S.Y.	SQUARE YARDS
GAL.	GALLON	T	TANGENT DISTANCE - TRUCKS
H	HOUSE		TOWNSHIP
HYD.	HYDRANT	TAV.	TAVERN
		TEL.	TELEPHONE
		T.H.	TRAILER HOUSE
I	INTERSECTION ANGLE	℄	TRANSIT LINE
INL.	INLET	TN.	TOWN
I.P.	IRON PIPE OR PIN	TRANS.	TRANSITION
INT.EMB.	INTERCEPTING EMBANKMENT		
		U.C.	UNDERGROUND CABLE
L	LENGTH OF CURVE	UNCL.	UNCLASSIFIED
L.H.E.	LIMITED HIGHWAY EASEMENT	VAR.	VARIABLE
L.H.F.	LEFT HAND FORWARD	V	VELOCITY
LIN.FT.	LINEAR FEET	V.C.	VERTICAL CURVE
L.S.	LUMP SUM	W.V.	WATER VALVE

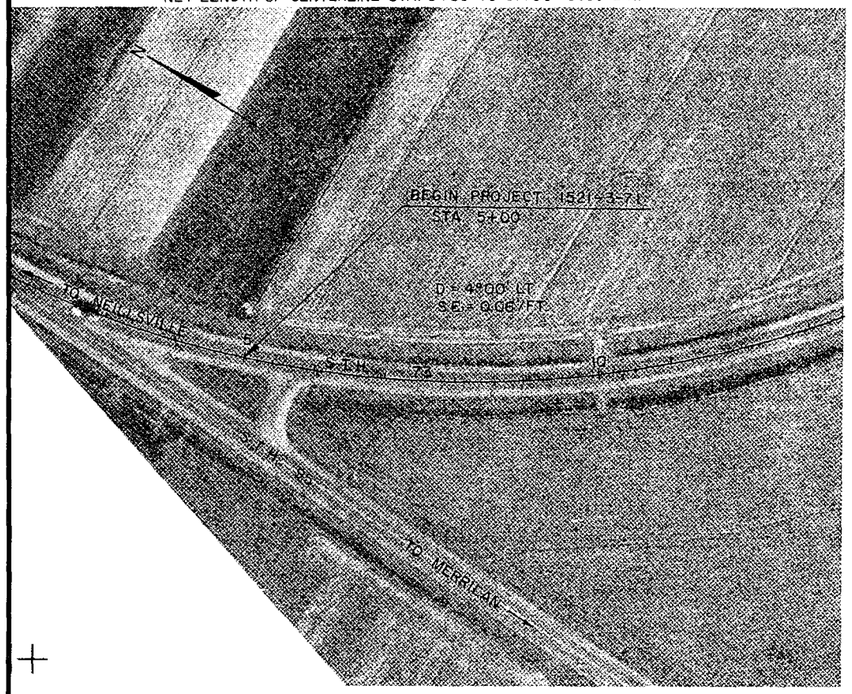
STANDARD DETAIL DRAWINGS

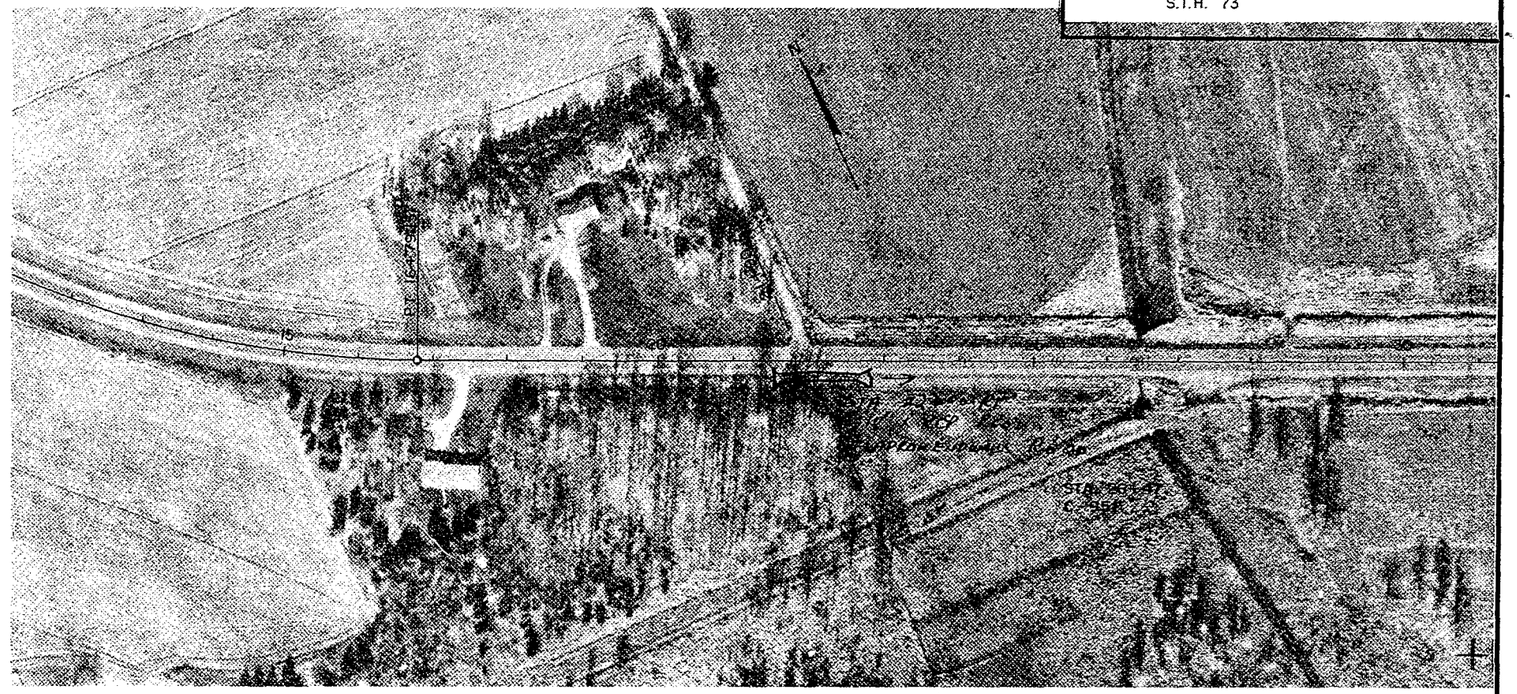
8A5-2	CATCH BASIN, MANHOLE & INLET COVERS
8F1-7	APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
9A1-3	LAYOUT DETAILS FOR AT-GRADE SIDE ROAD INTERSECTIONS
14B2-4a&b	CLASS"A" STEEL PLATE BEAM GUARD & STEEL PLATE BEAM MEDIAN GUARD
15C1-5	CONSTRUCTION BARRICADES & STANDARD SIGNS
8F4-1	JOINT TIES FOR CONCRETE PIPE

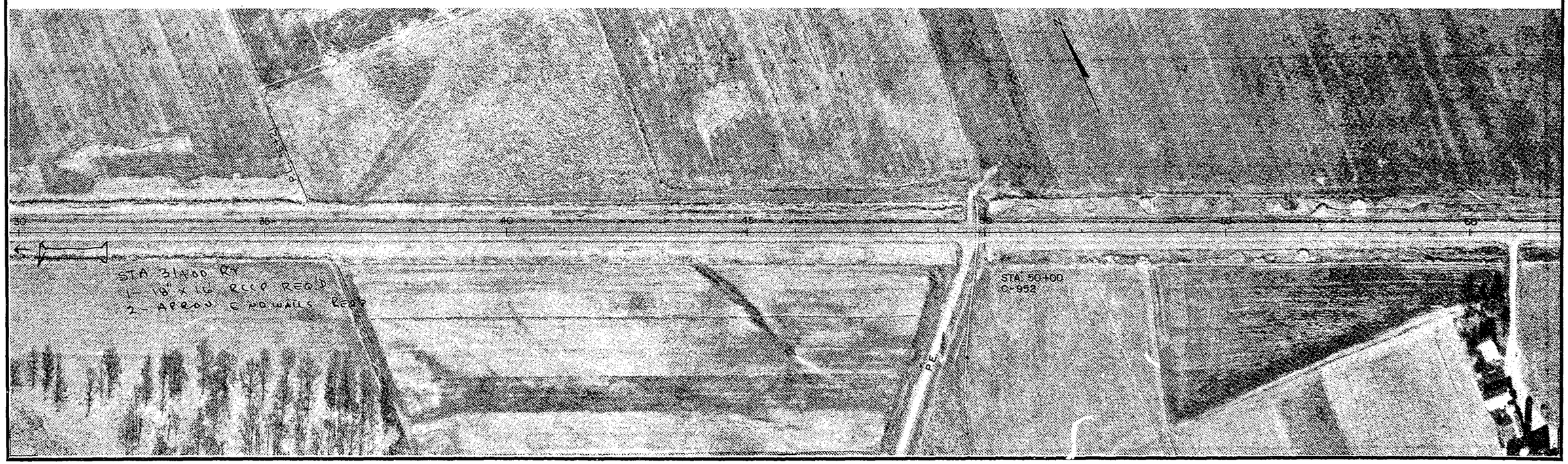
STATE PROJECT NUMBER	SHEET NO.
1521-3-71	5

PLAN FOR
S.T.H. 73

NET LENGTH OF CENTERLINE STA. 5+00 TO 61+00 = 5600 LIN. FT.



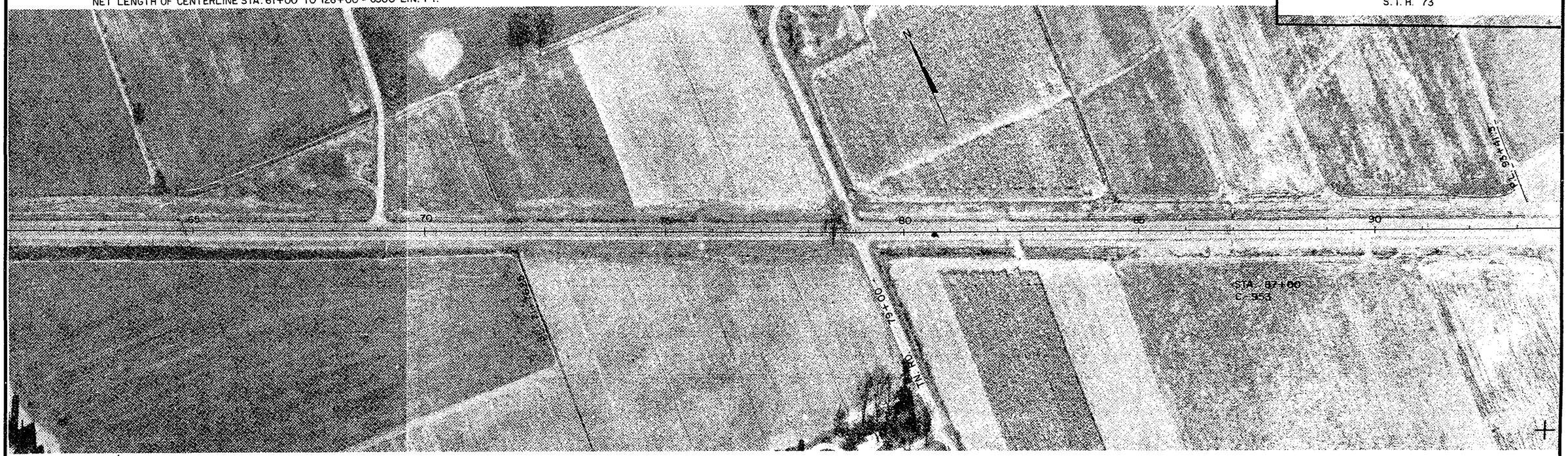


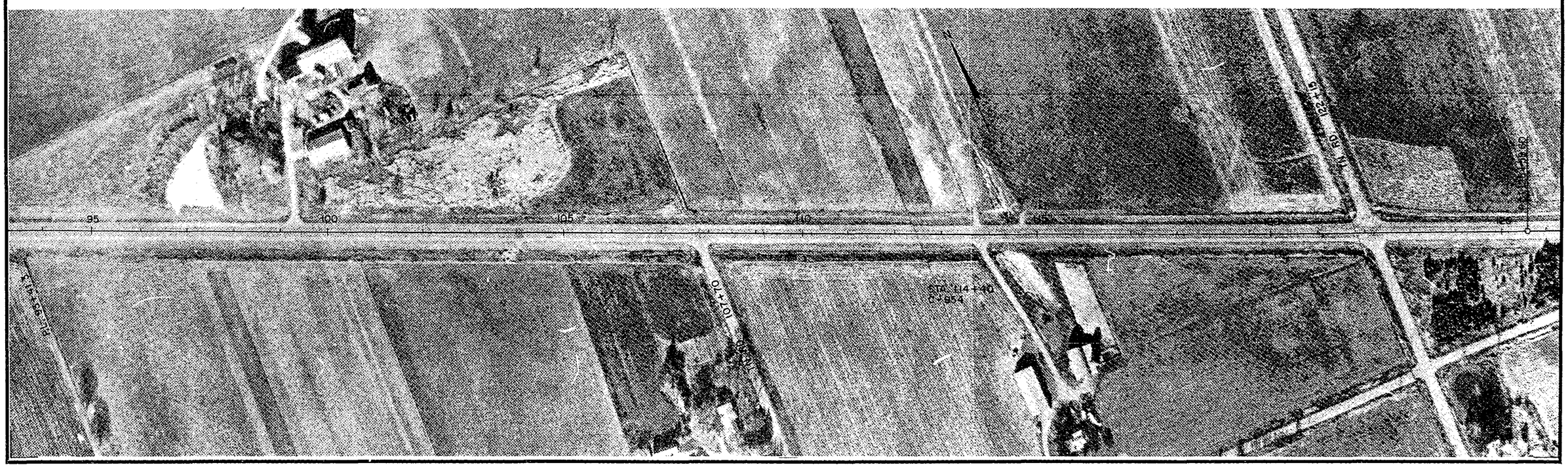


STATE PROJECT NUMBER	SHEET NO.
1521-3-71	5.1

PLAN FOR
S.T.H. 73

NET LENGTH OF CENTERLINE STA. 61+00 TO 126+00 = 6500 LIN. FT.



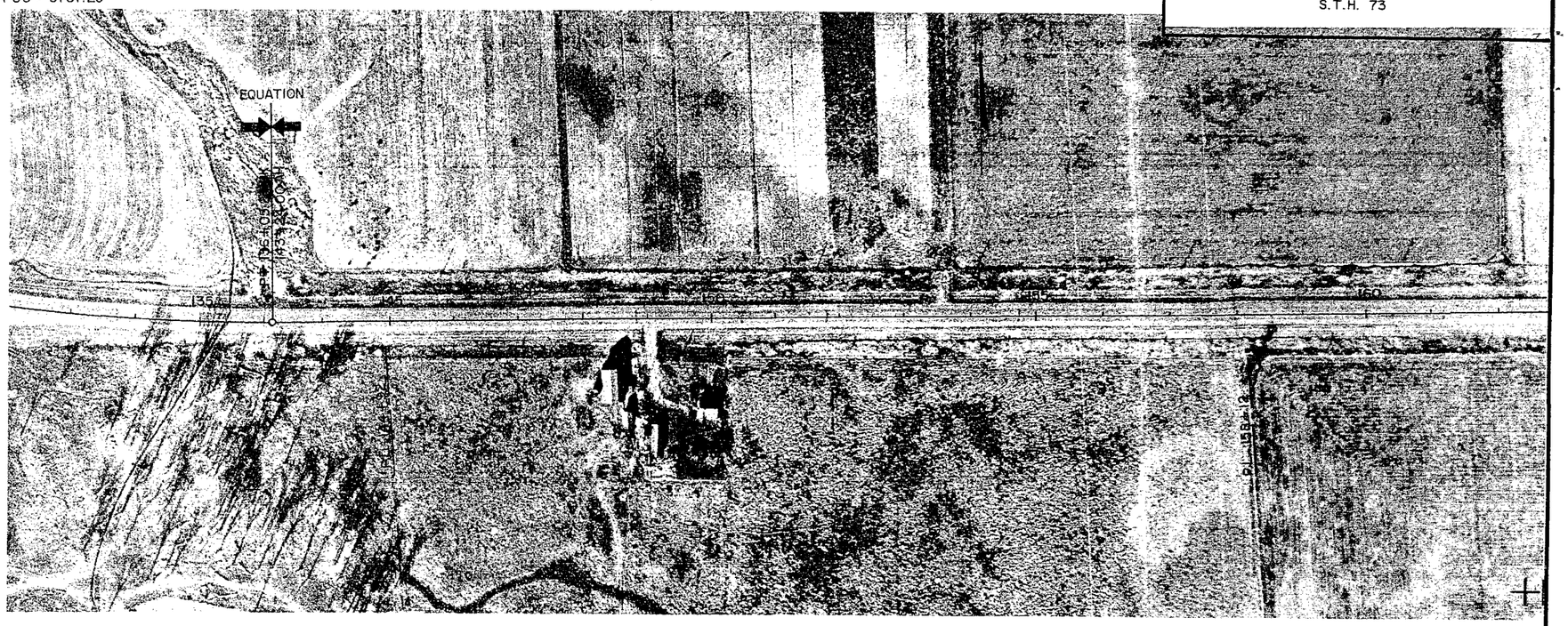


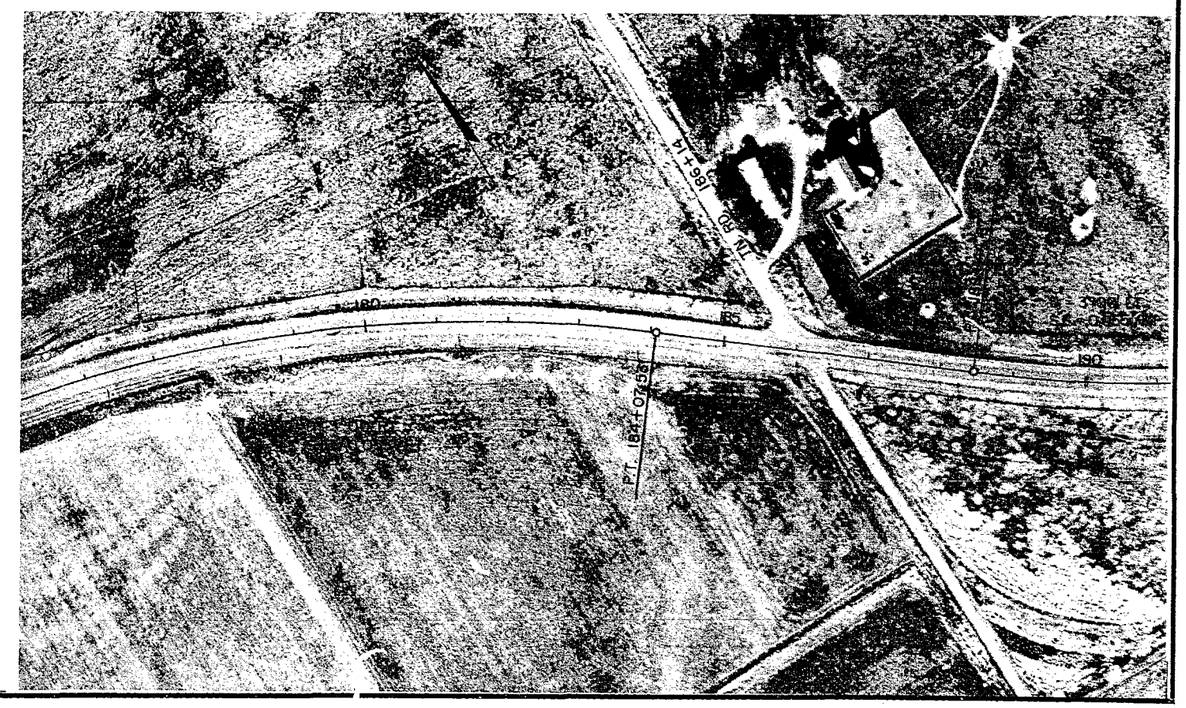
Catalog No. 2130-D120

STATE PROJECT NUMBER	SHEET NO.
1521-3-71	5.2

PLAN FOR
S.T.H. 73

NET LENGTH OF CENTERLINE STA. 126+00 TO 191+00 = 5781.23



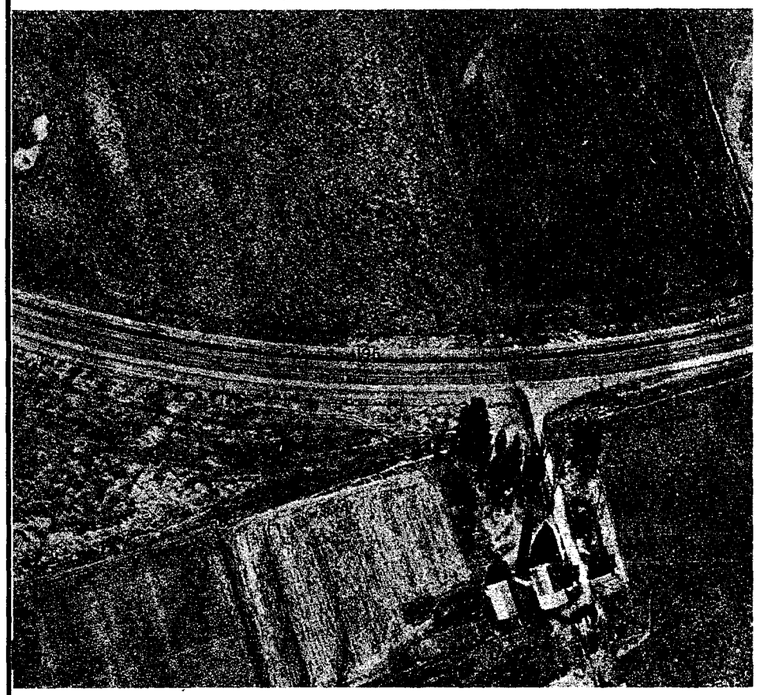


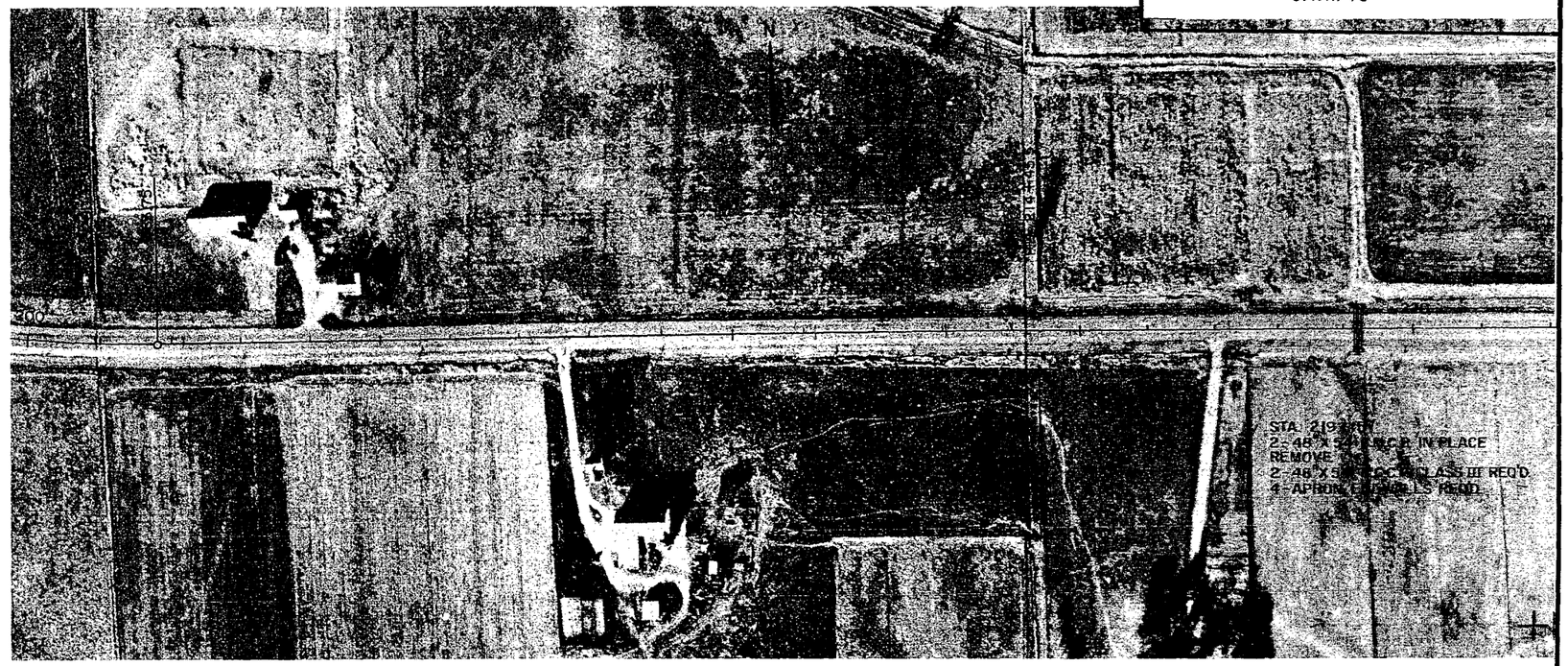
Catalog No. 2130-D120

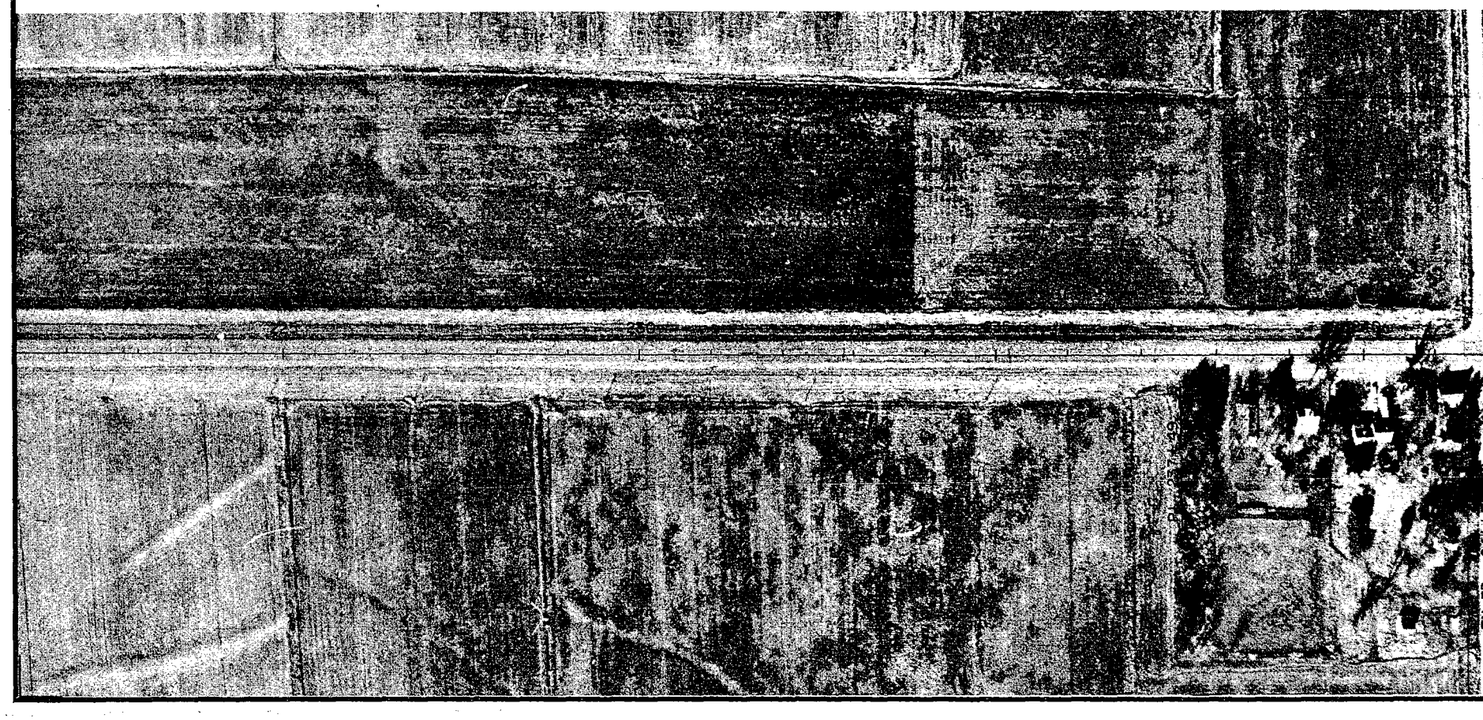
STATE PROJECT NUMBER	SHEET NO.
1521-3-71	5.3

PLAN FOR
S.T.H. 73

NET LENGTH OF CENTERLINE STA. 191+00 TO 254+00 = 6300 LIN. FT.





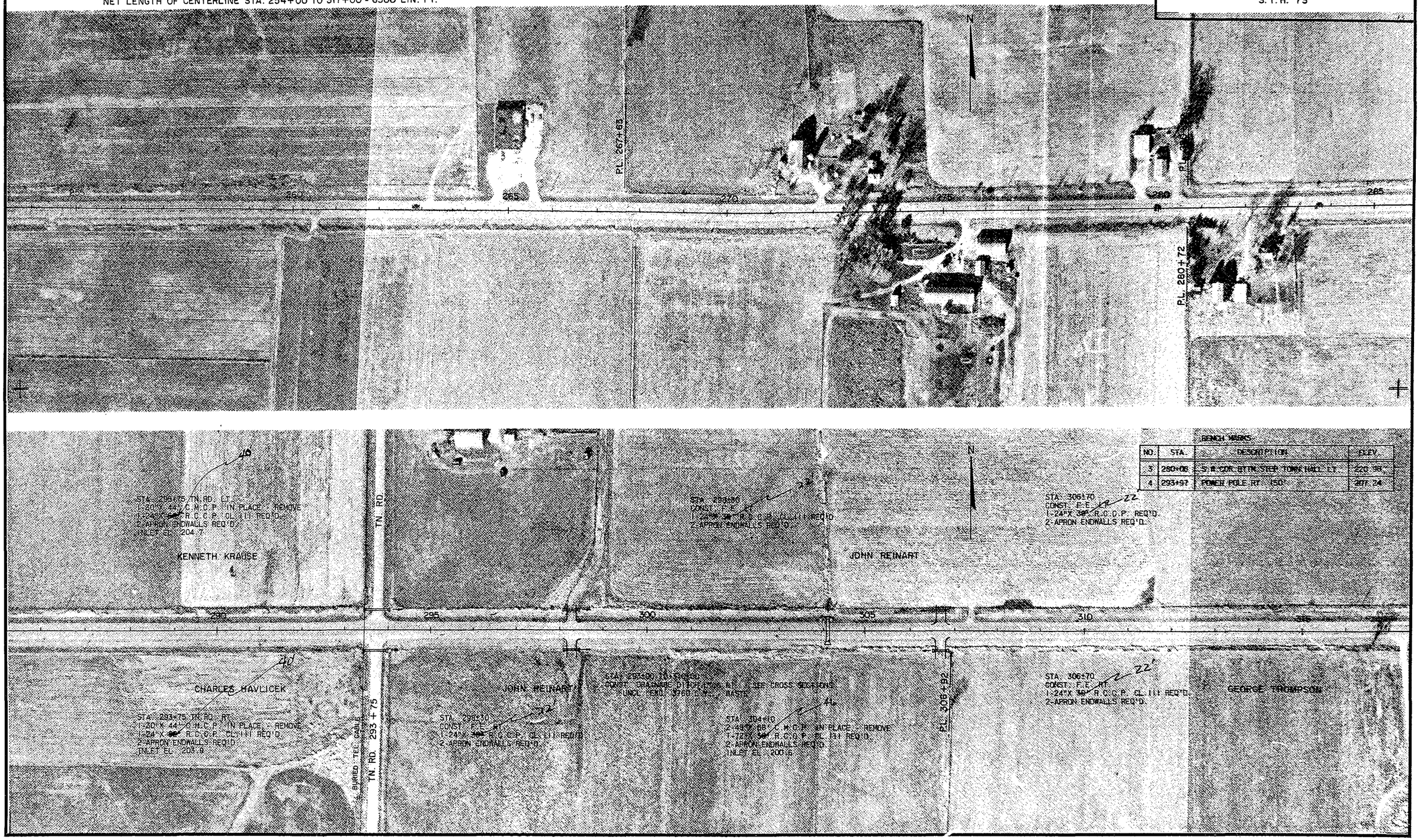


Catalog No. 2130-D120

STATE PROJECT NUMBER	SHEET NO.
1521-3-71	5,4

PLAN FOR
S.T.H. 73

NET LENGTH OF CENTERLINE STA. 254+00 TO 317+00 = 6300 LIN. FT.



BENCH MARKS

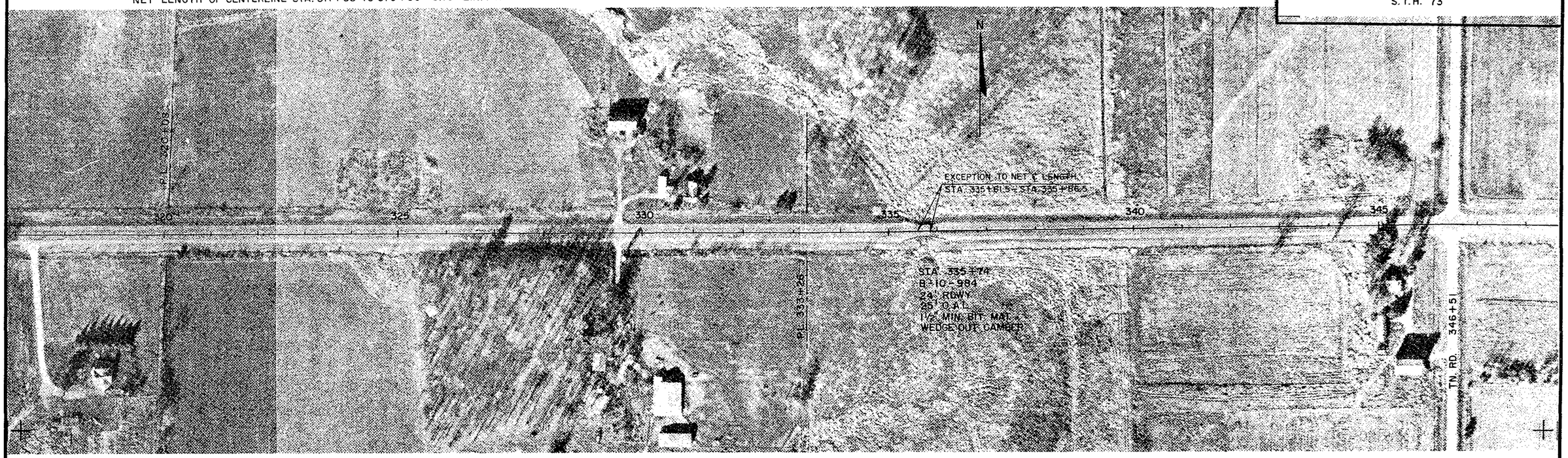
NO.	STA.	DESCRIPTION	ELEV.
3	280+05	S.E. COR. BTW. STEP TOWN HALL LT.	220.98
4	293+97	POWER POLE RT. 150'	207.24

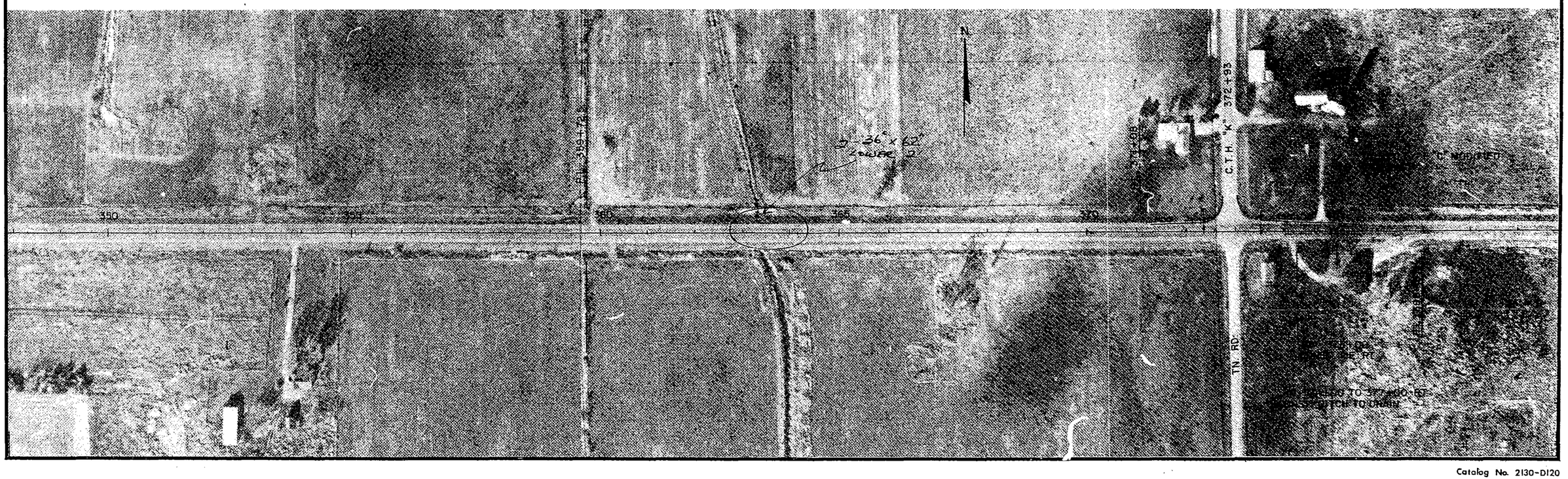
Catalog No. 2130-0120

STATE PROJECT NUMBER	SHEET NO.
1521-3-71	5.5

PLAN FOR
S.T.H. 73

NET LENGTH OF CENTERLINE STA. 317+00 TO 379+00 = 6175 LIN. FT.





STATE PROJECT NUMBER	SHEET NO.
1521-3-71	5.6

PLAN FOR
S.T.H. 73

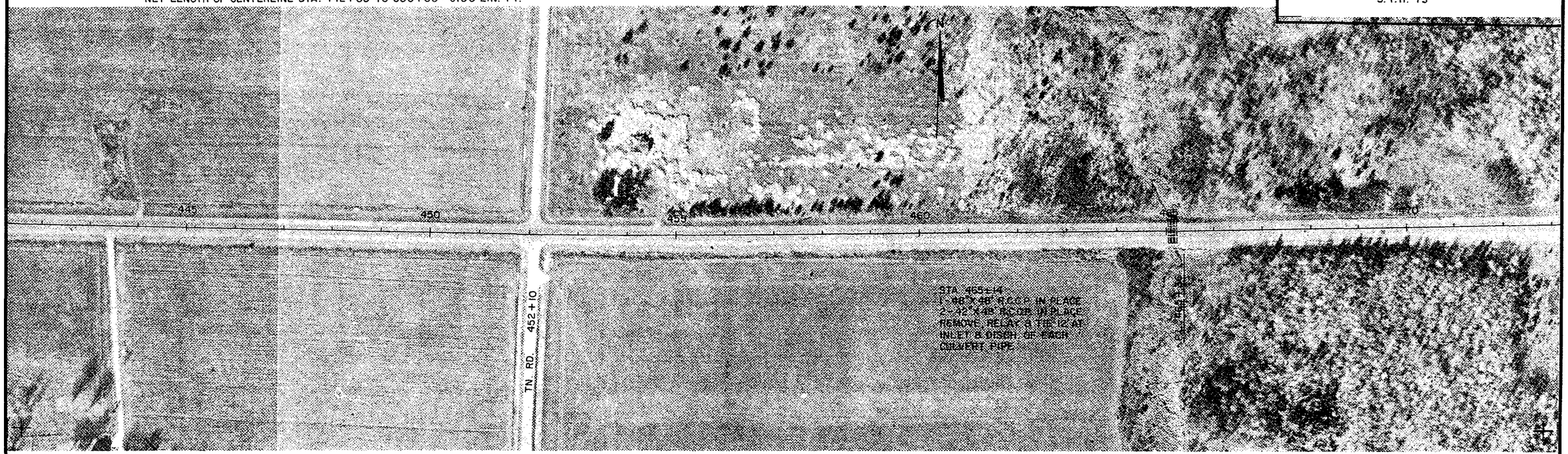
NET LENGTH OF CENTERLINE STA. 379+00 TO 442+00 = 6300 LIN. FT.

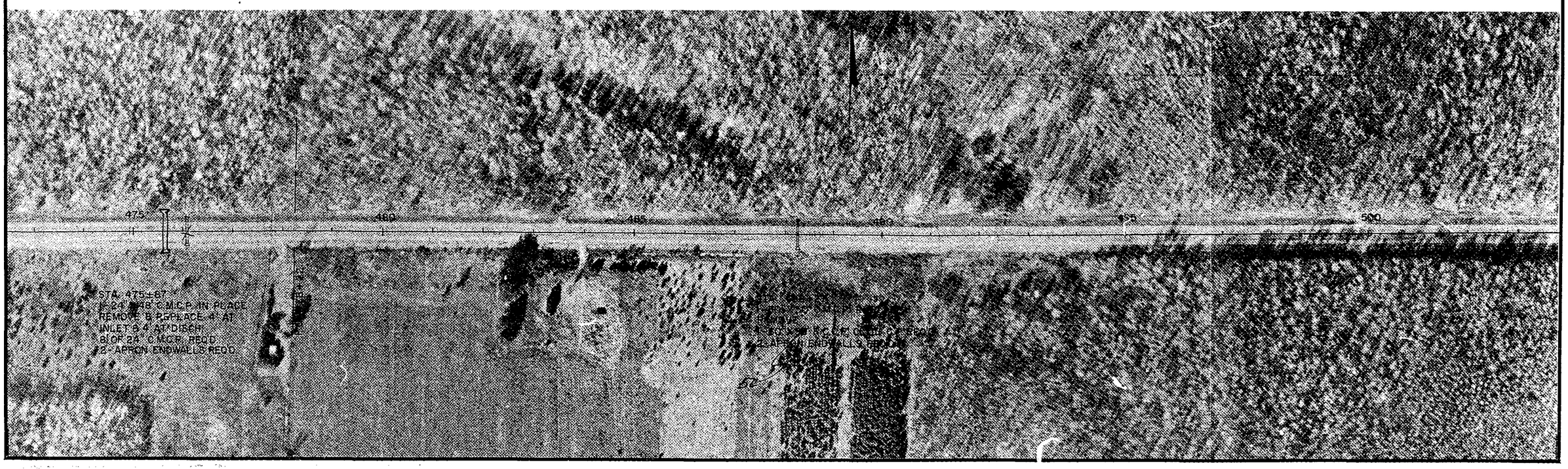
Catalog No. 2130-D120

STATE PROJECT NUMBER	SHEET NO.
1521-3-71	5.7

PLAN FOR
S.T.H. 73

NET LENGTH OF CENTERLINE STA. 442+00 TO 503+00 = 6100 LIN. FT.

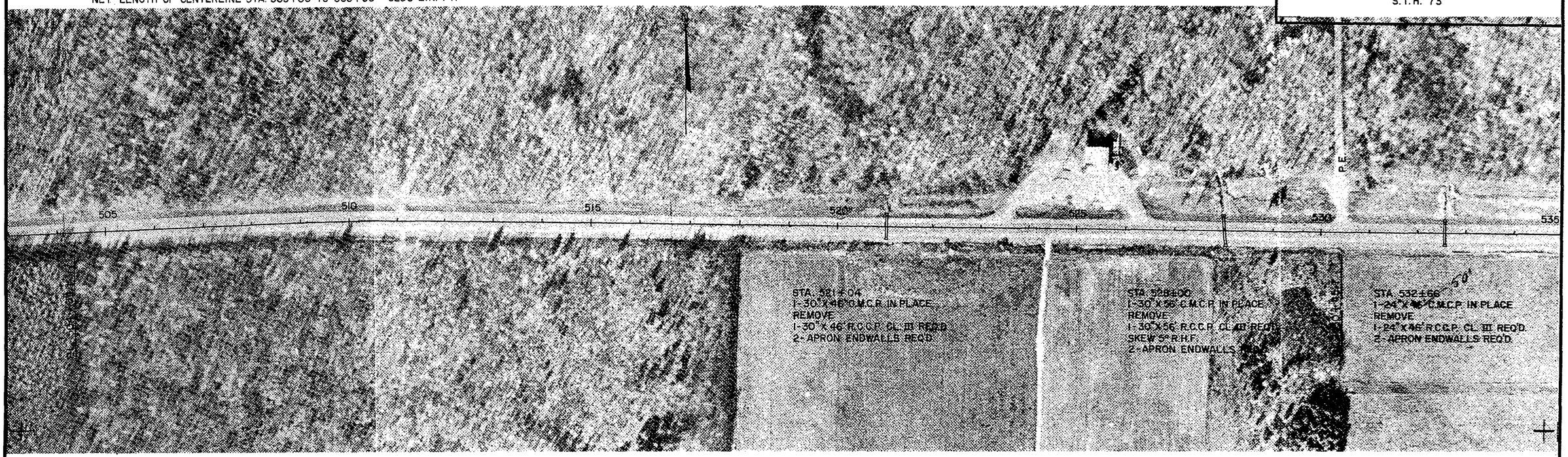


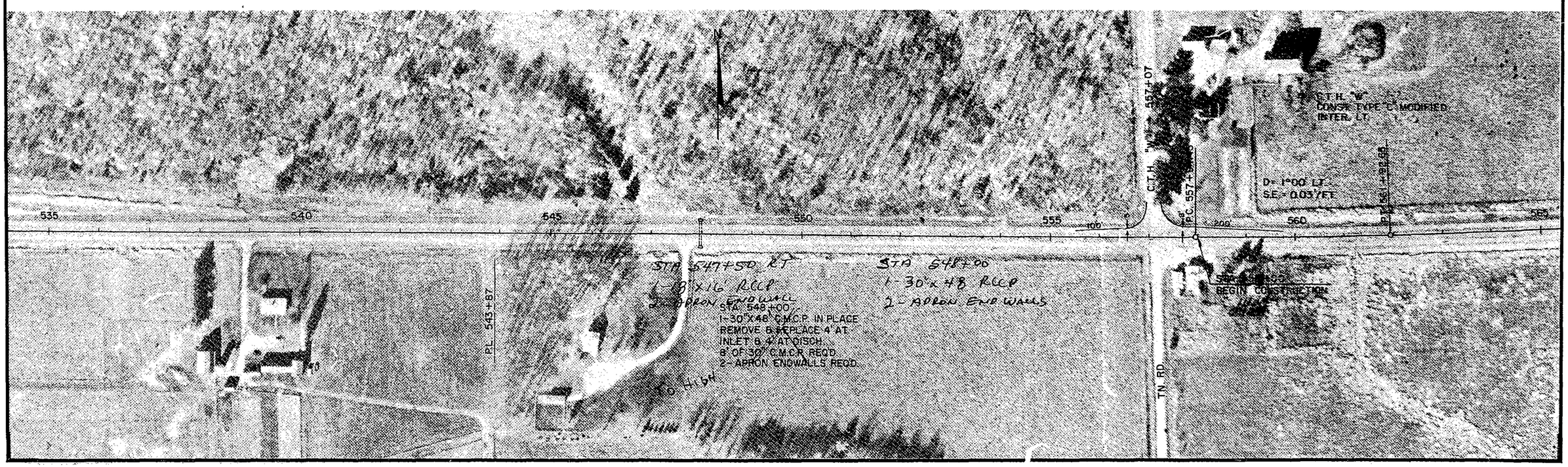


STATE PROJECT NUMBER	SHEET NO.
1521-3-71	5.8

PLAN FOR
S.T.H. 73

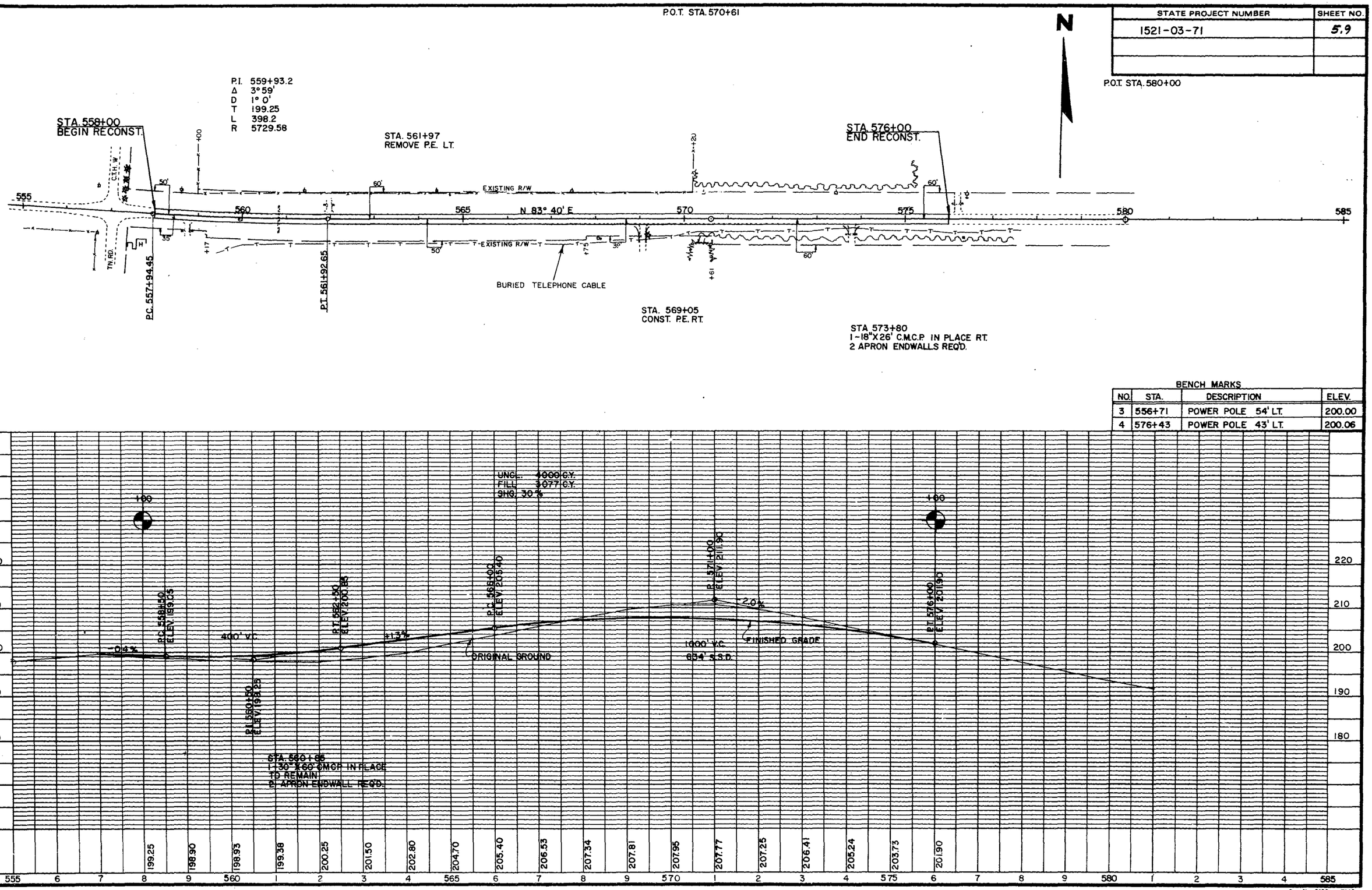
NET LENGTH OF CENTERLINE STA. 503+00 TO 565+00 = 6200 LIN. FT.





Catalog No. 2130-D120

STATE PROJECT NUMBER	SHEET NO.
1521-03-71	5.9



BENCH MARKS

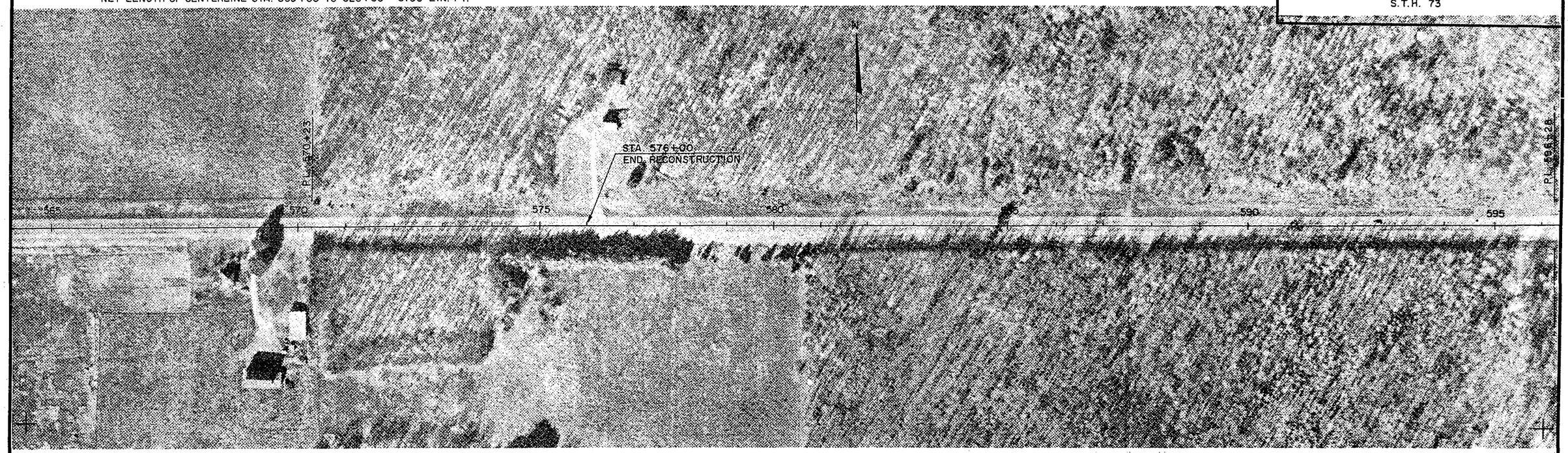
NO.	STA.	DESCRIPTION	ELEV.
3	556+71	POWER POLE 54' LT.	200.00
4	576+43	POWER POLE 43' LT.	200.06

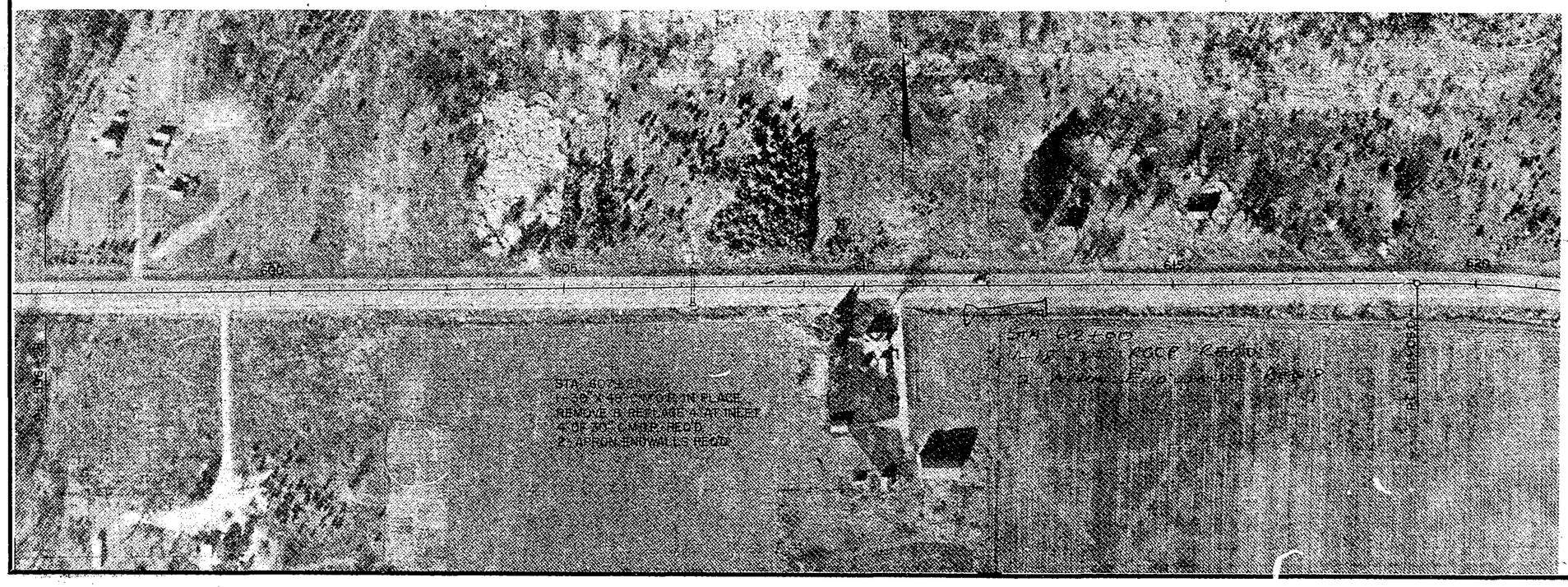
Cat. No. 2130 – D140

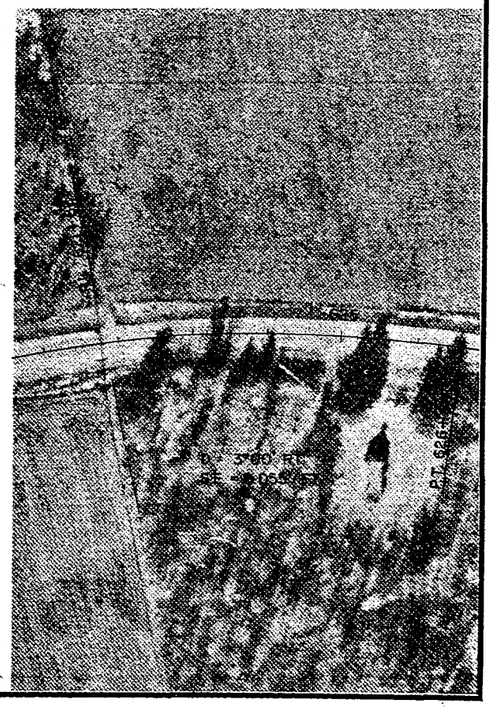
STATE PROJECT NUMBER	SHEET NO.
1521-3-71	5.10

PLAN FOR
S.T.H. 73

NET LENGTH OF CENTERLINE STA. 565+00 TO 626+00 = 6100 LIN. FT.



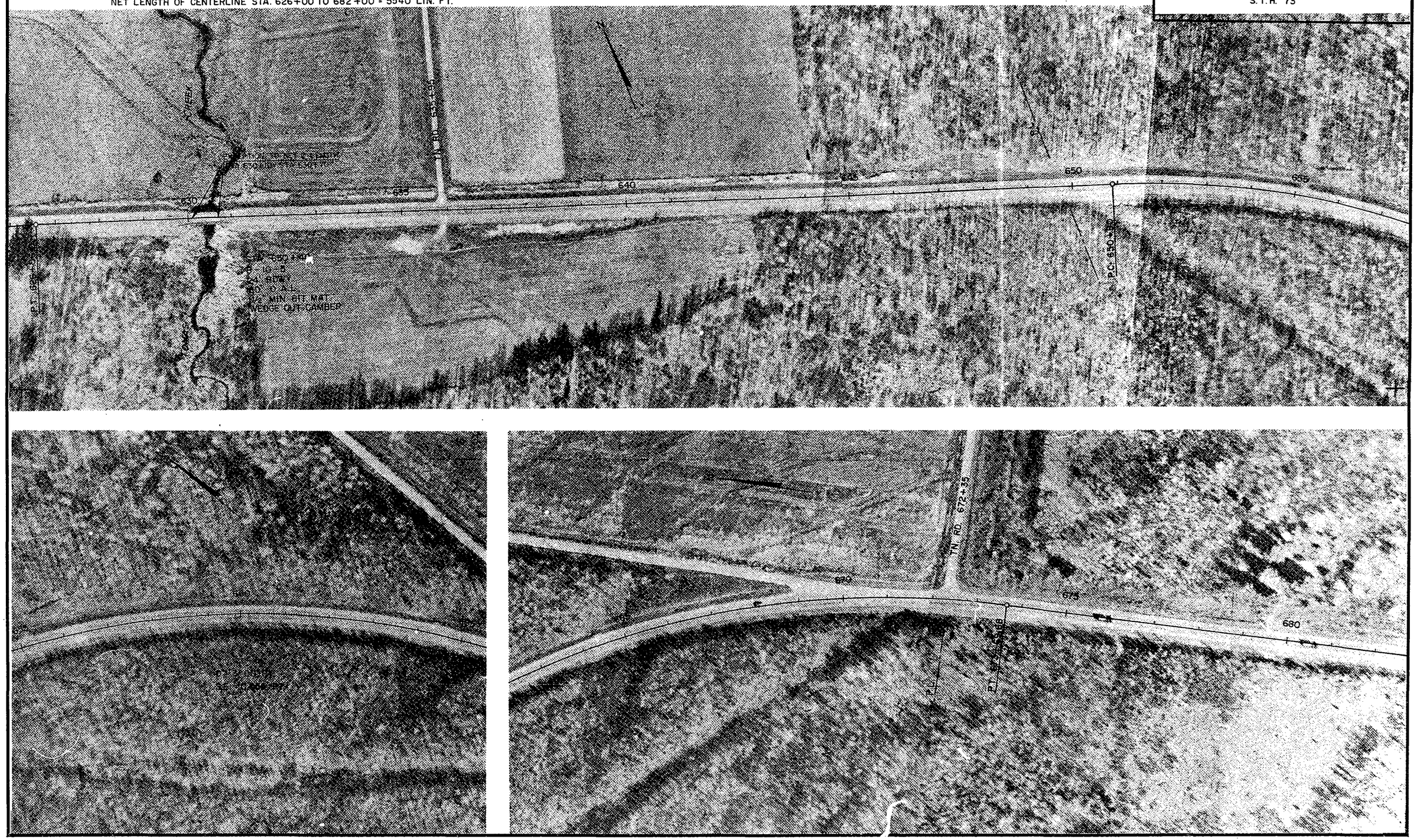




STATE PROJECT NUMBER	SHEET NO.
1521-3-71	5.11

PLAN FOR
S.T.H. 73

NET LENGTH OF CENTERLINE STA. 626+00 TO 682+00 = 5540 LIN. FT.



Catalog No. 2130-D120

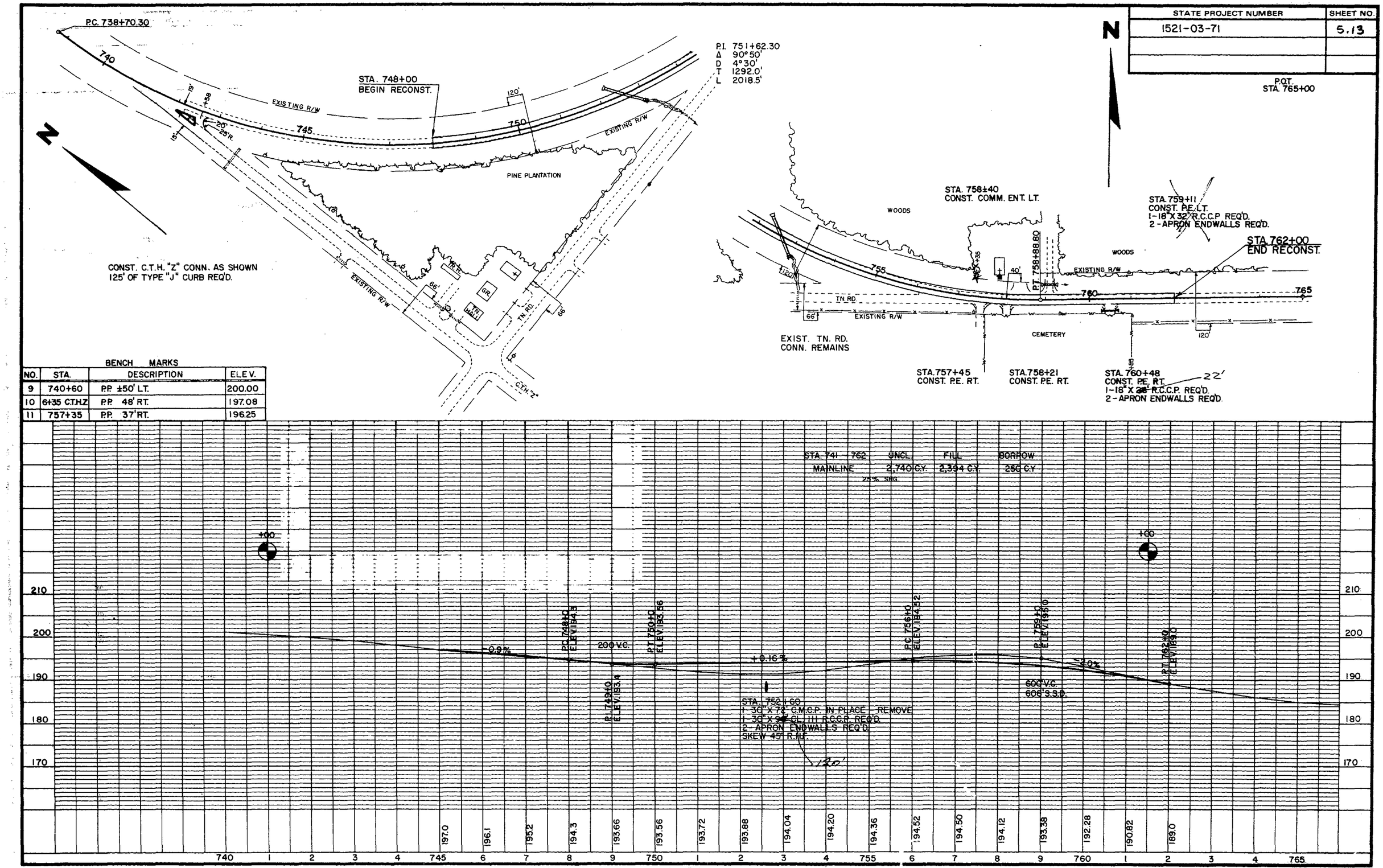
STATE PROJECT NUMBER	SHEET NO.
1521-3-71	5.12

PLAN FOR
S.T.H. 73

NET LENGTH OF CENTERLINE STA. 682+00 TO 742+00 = 5930 LIN. FT.

Catalog No. 2130-D120

STATE PROJECT NUMBER	SHEET NO.
1521-03-71	5.13



BENCH MARKS

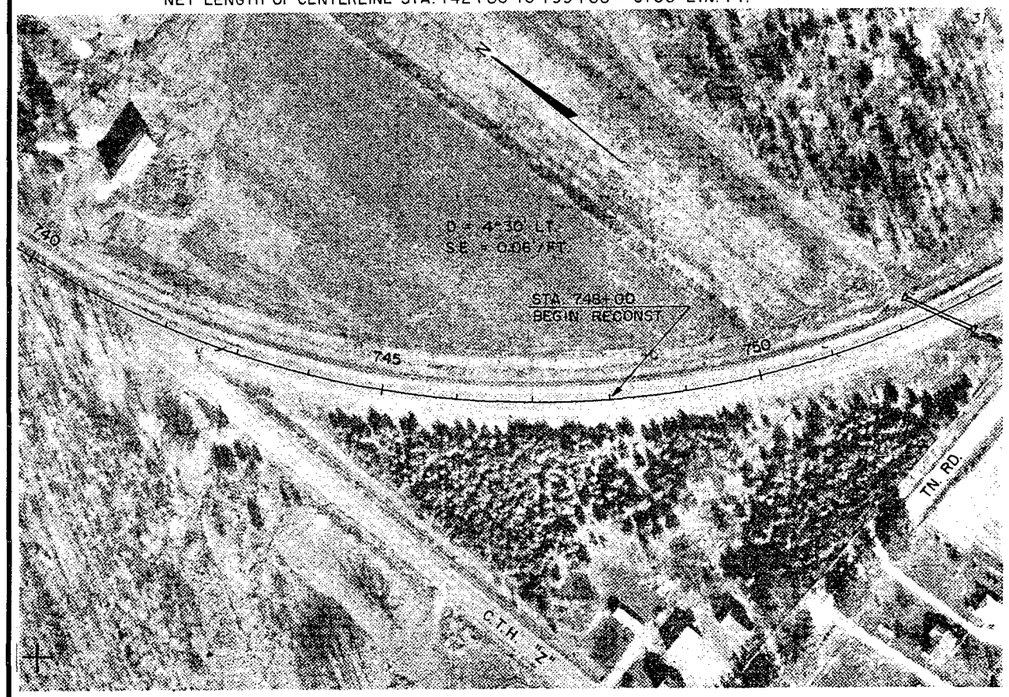
NO.	STA.	DESCRIPTION	ELEV.
9	740+60	P.P. ±50' LT.	200.00
10	6+35 C.T.H.Z	P.P. 48' RT.	197.08
11	757+35	P.P. 37' RT.	196.25

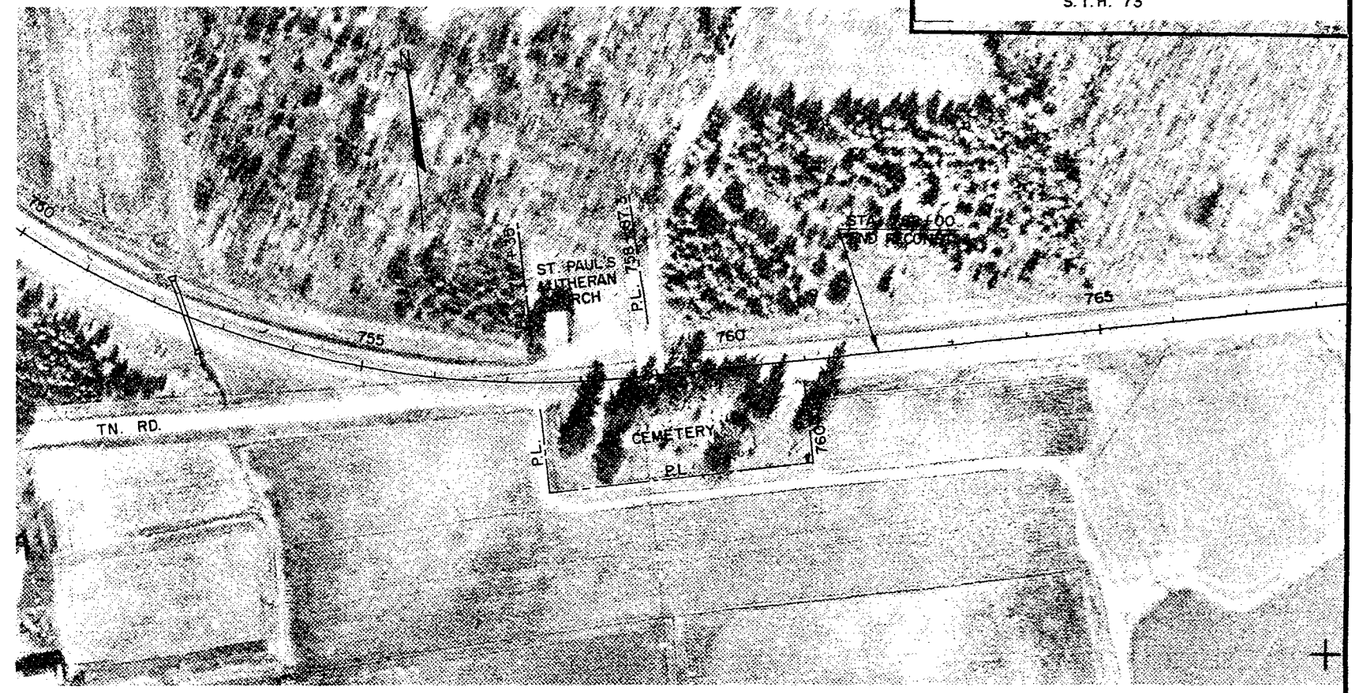
Cat. No. 2130 - 0140

STATE PROJECT NUMBER	SHEET NO.
1521-3-71	5.14

PLAN FOR
S.T.H. 73

NET LENGTH OF CENTERLINE STA. 742+00 TO 799+00 = 5700 LIN. FT.



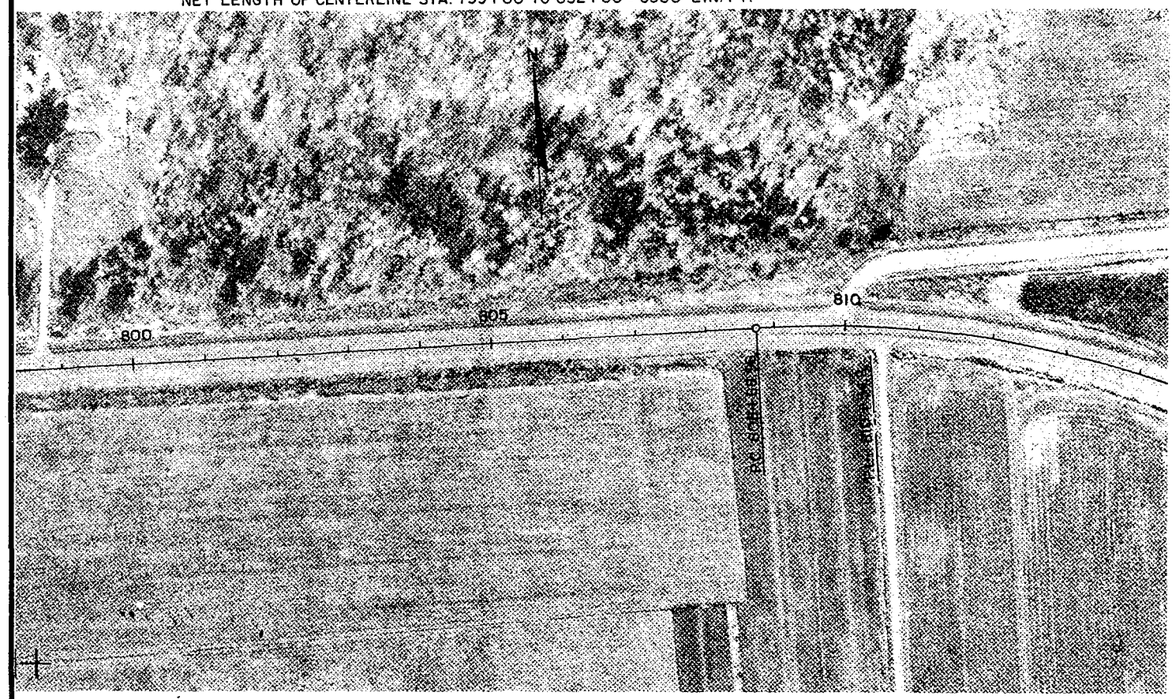


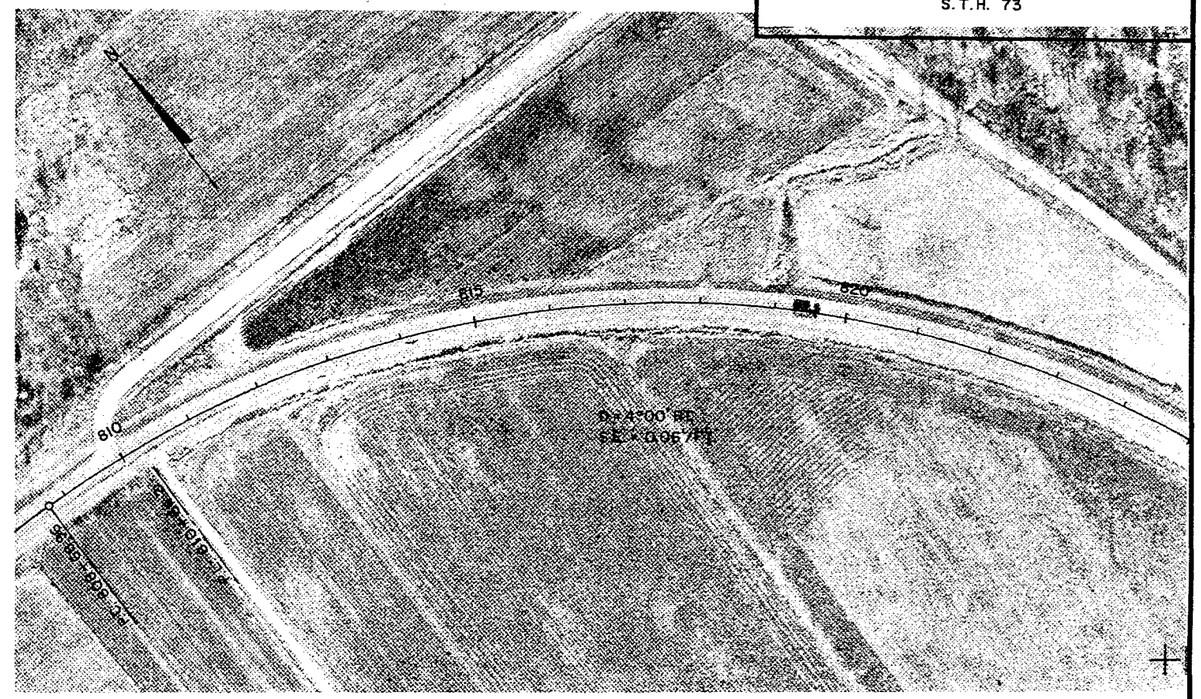
Catalog No. 2130-D120

STATE PROJECT NUMBER	SHEET NO.
1521-3-71	5.15

PLAN FOR
S.T.H. 73

NET LENGTH OF CENTERLINE STA. 799+00 TO 852+00 = 5300 LIN. FT.



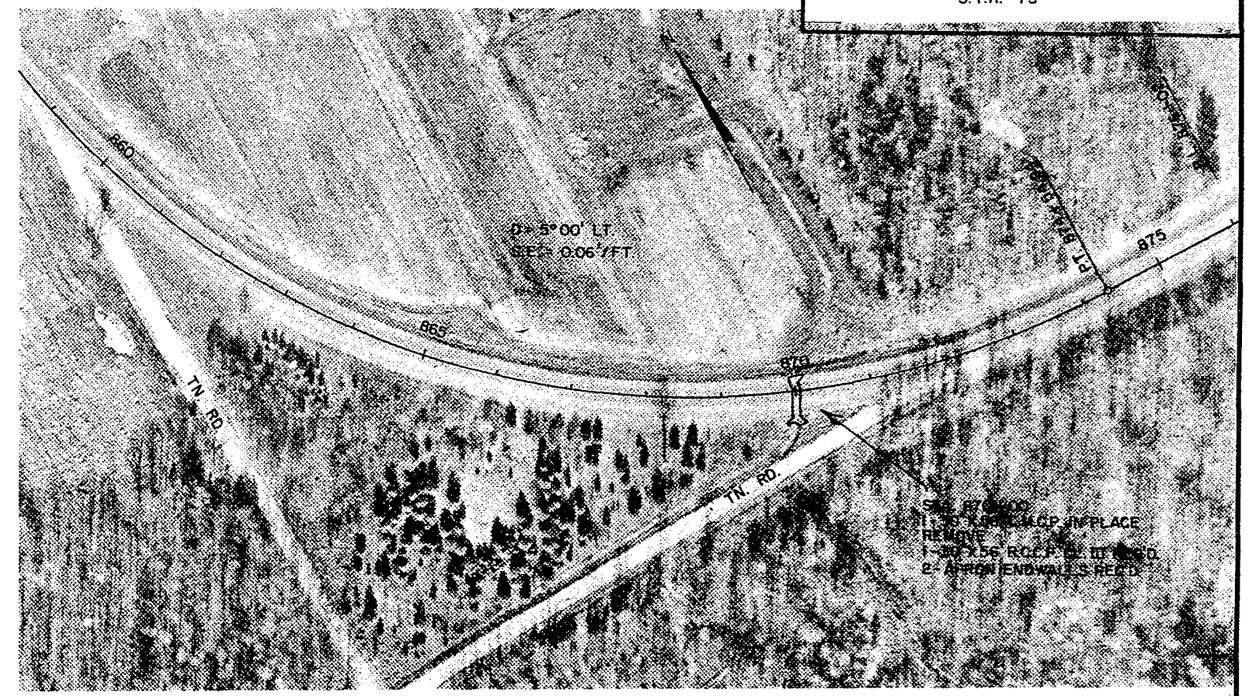


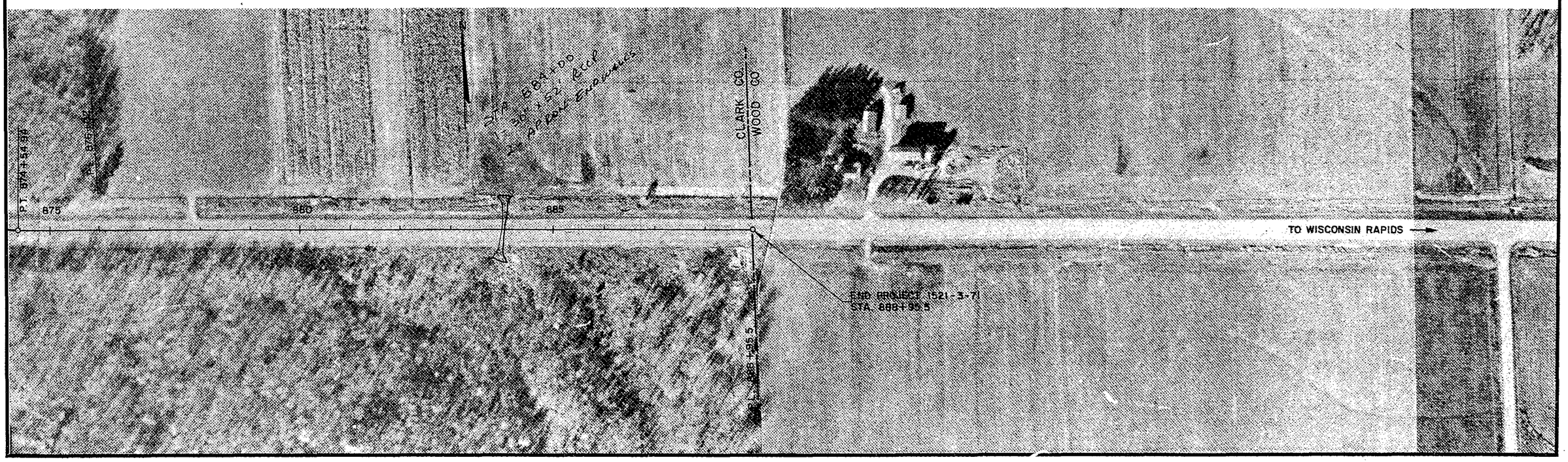
Catalog No. 2130-D120

STATE PROJECT NUMBER	SHEET NO.
1521-3-71	5.16

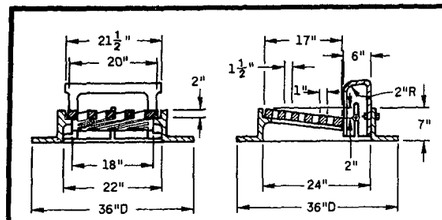
PLAN FOR
S.T.H. 73

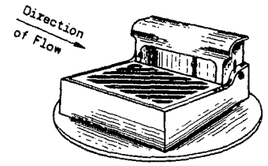
NET LENGTH OF CENTERLINE STA. 852+00 TO 888+95.5 = 3695.5 LIN. FT.

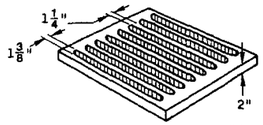




Catalog No. 2130-D120



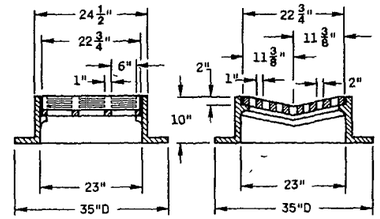


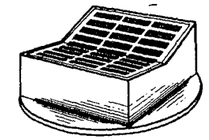


ALTERNATE TYPE GRATE *
(Longitudinal Slots)
Approximate Weight 100 lbs.

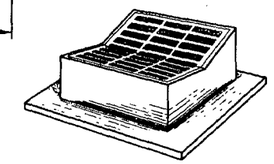
TYPE "A"

(Approximate Weight 405 lbs.)
Frame Weight 250 lbs.
Grate Weight 85 lbs.
Box Weight 70 lbs.





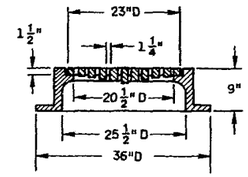
Round Frame

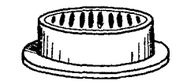


Alternate Frame
(Square type)
35" Square

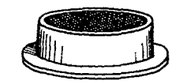
TYPE "B"

(Approximate Weight 395 lbs.)
Frame Weight 285 lbs.
Grate Weight 110 lbs.





TYPE "C"
Slotted Grate *

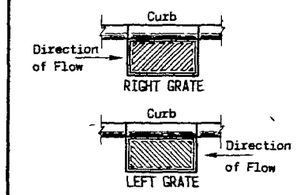


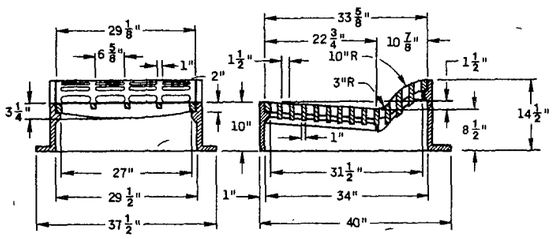
TYPE "J"
Solid Cover

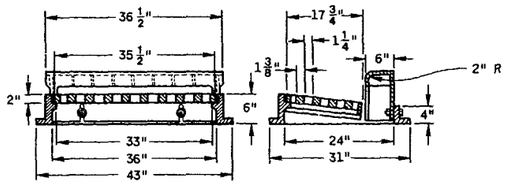
TYPE "C" - TYPE "J"

Frame Weight 250 lbs.
Slotted Grate Weight 125 lbs.
Solid Cover Weight 150 lbs.

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)

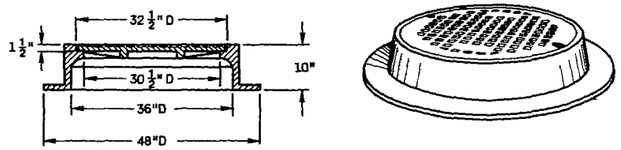






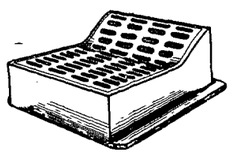
NOTE: Curb Box height adjustable 6" to 9"

* CAUTION: DO NOT USE GRATES WITH LONGITUDINAL SLOTS WHERE BICYCLE TRAFFIC IS PERMITTED.



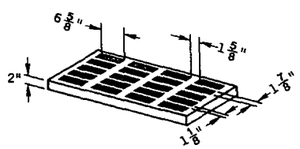
TYPE "K"

(Approximate Weight 785 lbs.)

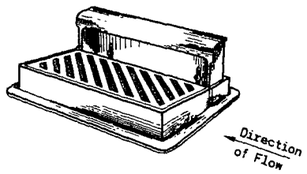


TYPE "F"

(Approximate Weight 850 lbs.)
Frame 515 lbs.
Back grate 160 lbs.
Front grate 175 lbs.

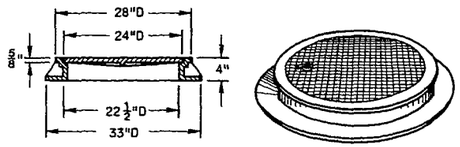


ALTERNATE TYPE GRATE
(Longitudinal Slots)
Approximate Weight 200 lbs.



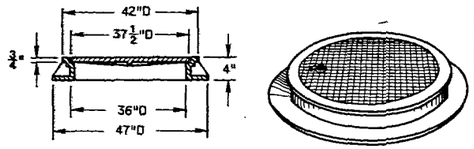
TYPE "H"

(Approximate Weight 510 lbs.)
Frame Weight 220 lbs.
Grate Weight 175 lbs.
Box Weight 115 lbs.



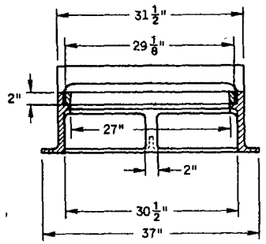
TYPE "L"

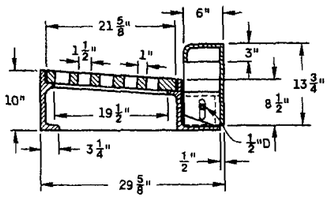
(Approximate Weight 220 lbs.)



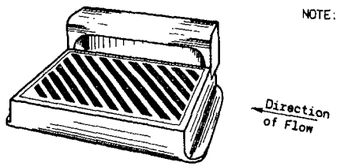
TYPE "M"

(Approximate Weight 535 lbs.)



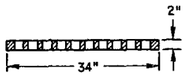


NOTE: Curb Box height adjustable 6" to 9"

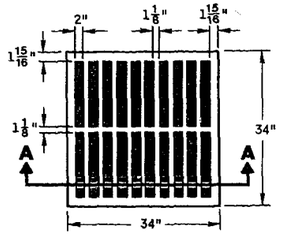


TYPE "WM"

(Approximate Weight 670 lbs.)
Frame Weight 350 lbs.
Grate Weight 185 lbs.
Box Weight 135 lbs.



SECTION A-A



TYPE "MS" *

(Approximate Grate Weight 285 lbs.)

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.

Detail drawings for proposed alternate designs for Catch Basin, Manhole and Inlet Covers shall be submitted to the Engineer for approval providing that such alternate designs make provision for equivalent capacity and strength.

All Catch Basin, Manhole and Inlet Covers which are placed in vehicular traffic areas shall be "Non-Rocking" type.

Adjustment of the cover to grade may be accomplished by the use of mortar and brick, or by Precast Concrete Grade Rings (AASHTO Designation M-199). Maximum adjustment shall be 8 inches.

Curb box height to be adjusted 4 to 9 inches, unless otherwise noted, after the form is in place.

The actual weight of covers may vary within 5 percent, plus or minus, of the approximate weight.

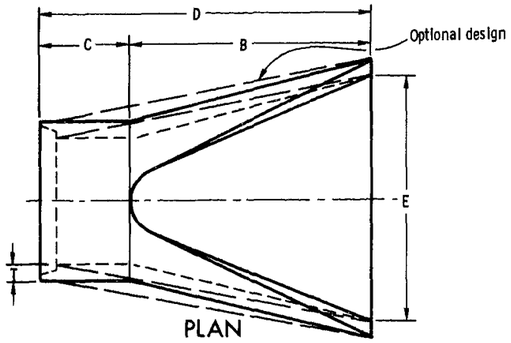
CATCH BASIN MANHOLE AND INLET COVERS

State of Wisconsin
Department of Transportation
Division of Highways

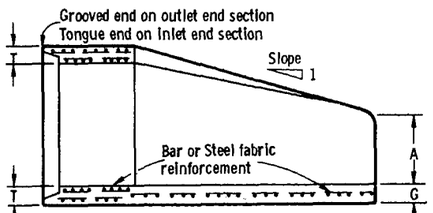
RECOMMENDED FOR APPROVAL:
12-3-75 — DATE — CHIEF of FACILITIES DEVELOPMENT
APPROVED
12-9-75 — DATE — STATE HIGHWAY ENGINEER

S.D.D. 8A5-2

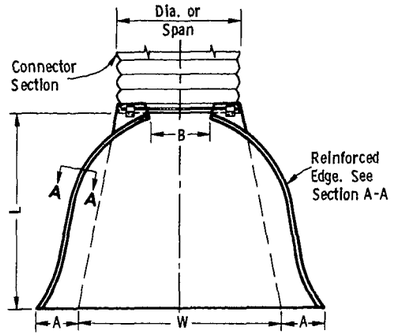
S.D.D. 8A5-2



PLAN



LONGITUDINAL SECTION



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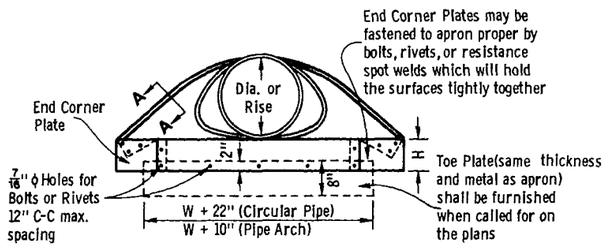
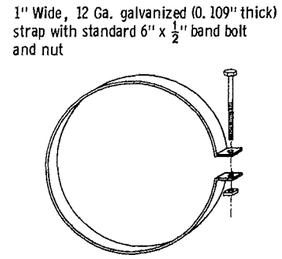
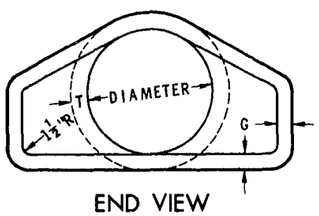


END VIEW

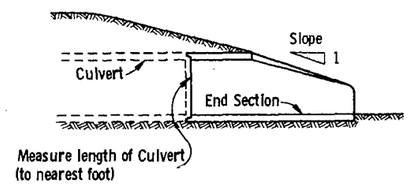


Alternate for Type 1 Connection

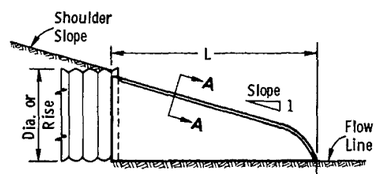
END SECTION CONNECTOR STRAP



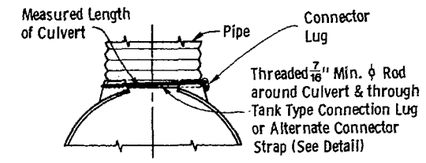
END VIEW



SIDE ELEVATION

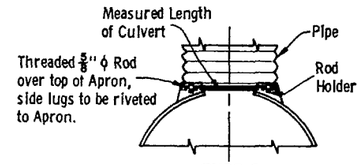


SIDE ELEVATION



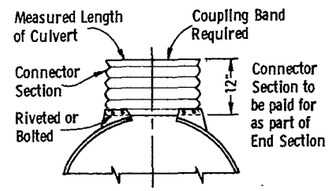
TYPE 1

For 12" thru 24" only (Circular Pipe)



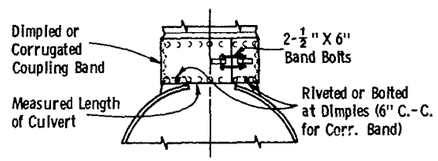
TYPE 2

For 30" and 36" only (Circular Pipe)
For 17" X 13" thru 57" X 38" only (Pipe Arch)



TYPE 3

For 42" thru 84" only (Circular Pipe)
For 64" X 43" & 71" X 47" (Pipe Arch)

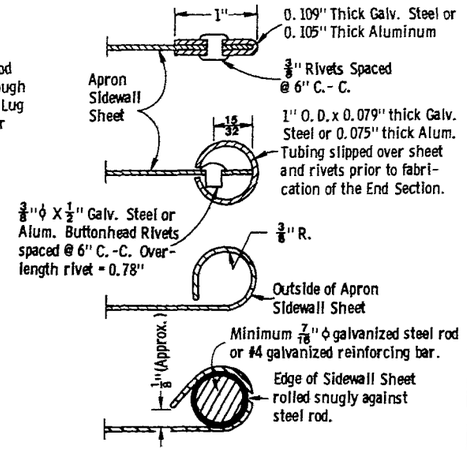


TYPE 5

Alternate for
All sizes Corrugated Circular Pipe and Pipe Arch

NOTE: Dimpled Band fits over Outside of Endwall, and Corr. Band fits Inside Endwall. Dimpled Band may be used with Helically Corrugated Pipe

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

Variations of the dimensions and designs shown hereon will be permitted providing equivilent capacity and structural integrity are attained, and prior approval of the Engineer is obtained.

Concrete culvert endwalls may not be used with galvanized steel or aluminum culvert pipe or vice versa.

Galvanized steel or aluminum endwalls shall normally be installed on culvert pipe of the same metal. The use of galvanized steel endwalls on aluminum pipes is permitted, provided the two metals at the joint interface are kept separated by a suitable insulating material approximately 1/16" thick or greater. Such material would be an asphalt impregnated fabric, a sheet plastic, a rubber gasket or other nondegradable material of substantial strength.

When two or more pipe arches with apron endwalls are to be laid adjacent to each other, they shall be separated by the following amount.

Pipes: Total width of apron endwall less the diameter of pipe plus 6 inches.
Pipe Arches: Total width of apron endwall less the span dimension of the pipe arch plus 6 inches.

DIA.	APPROX. WEIGHT/ SECTION	T	A	B	C	D	E	G	APPROX. SLOPE
12"	530	2"	4"	24"	48 7/8"	72 7/8"	24"	2"	3 to 1
15"	740	2 1/4"	6"	27"	46"	73"	30"	2 1/4"	↑
18"	990	2 1/2"	9"	27"	46"	73"	36"	2 1/2"	
21"	1,280	2 3/4"	9"	36"	37 1/2"	73 1/2"	42"	2 3/4"	
24"	1,520	3"	9 1/2"	43 1/2"	30"	73 1/2"	48"	3"	
27"	1,930	3 1/4"	10 1/2"	49 1/2"	24"	73 1/2"	54"	3 1/4"	
30"	2,190	3 1/2"	12"	54"	19 3/4"	73 3/4"	60"	3 1/2"	
36"	4,100	4"	15"	63"	34 3/4"	97 3/4"	72"	4"	
42"	5,380	4 1/2"	21"	63"	35"	98"	78"	4 1/2"	↓
48"	6,550	5"	24"	72"	26"	98"	84"	5"	3 to 1
54"	8,040	5 1/2"	27"	65"	**33 3/4" - *35"	**98 1/4" - *100"	90"	5"	2 2/3 to 1
60"	8,730	6"	**30" - *35"	60"	39"	99"	96"	5"	2 to 1
66"	10,630	6 1/2"	**24" - *30"	**72" - *78"	**21" - *27"	↑	102"	5 1/2"	↑
72"	12,520	7"	**24" - *36"	78"	21"	↓	108"	6"	↓
78"	14,430	7 1/2"	**24" - *36"	78"	21"	99"	114"	6 1/2"	2 to 1
84"	18,160	8"	36"	90 1/2"	21"	111 1/2"	120"	6 1/2"	1 1/2 to 1

** Minimum
* Maximum

REINFORCED CONCRETE APRON ENDWALLS

D PIPE DIAM.	MIN. METAL THICKNESS	MIN. ALUM. THICKNESS	DIMENSIONS A ± 1"	B MAX.	H ± 1"	L ± 1 1/2"	W ± 2"	APPROX. SLOPE
12"	0.064	0.060	6"	6"	6"	21"	24"	2 1/2 to 1
15"	↑	↑	7"	8"	↑	26"	30"	↑
18"		↓	8"	10"		31"	36"	
21"	↓	0.060	9"	12"	↓	36"	42"	
24"	0.064	0.075	10"	13"	6"	41"	48"	
30"	0.079	0.075	12"	16"	8"	51"	60"	
36"	0.079	0.105	14"	19"	9"	60"	72"	↓
42"	0.109	↑	16"	22"	11"	69"	84"	2 1/2 to 1
48"	↑	↓	18"	27"	12"	78"	90"	2 1/4 to 1
54"		0.105	↑	30"	↑	84"	102"	2 to 1
60"		NA		33"		87"	114"	1 3/4 to 1
66"		↑		36"		87"	120"	1 1/2 to 1
72"				39"		87"	126"	1 1/3 to 1
78"		↓	↓	42"	↓	87"	132"	1 1/4 to 1
84"	0.109	NA	18"	45"	12"	87"	138"	1 1/8 to 1

NOTE: All splices to be lap riveted or bolted

METAL OR ALUMINUM APRON ENDWALLS FOR CIRCULAR PIPES

PIPE – ARCH DIMENSIONS SPAN	RISE	MIN. METAL THICK.	DIMENSIONS A ± 1"	B MAX.	H ± 1"	L ± 1 1/2"	W ± 2"	APPROX. SLOPE
17"	13"	0.064	7"	9"	6"	19"	30"	2 1/2 to 1
21"	15"	↑	7"	10"	↑	23"	36"	↑
24"	18"	↓	8"	12"		28"	42"	
28"	20"	0.064	9"	14"	↓	32"	48"	
35"	24"	0.079	10"	16"	6"	39"	60"	
42"	29"	0.079	12"	18"	8"	46"	75"	
49"	33"	0.109	13"	21"	9"	53"	85"	↓
57"	38"	↑	18"	26"	12"	63"	90"	2 1/2 to 1
64"	43"		18"	30"	12"	70"	102"	2 1/4 to 1
71"	47"		18"	33"	12"	77"	114"	2 1/4 to 1
77"	52"	↓	18"	36"	12"	77"	126"	2 to 1
83"	57"	0.109	18"	39"	12"	77"	138"	2 to 1

NOTE: All splices to be lap riveted or bolted

METAL APRON ENDWALLS FOR PIPE ARCHES

CIRCULAR PIPE

For Circumferentially Corrugated Pipe use Endwall Connection Details 1, 2, 3, or 5 as applicable.

For Helically Corrugated Pipe use Endwall Connection Details 1, 2 or 5.

For Helically Corrugated Pipes with two Circumferential Corrugations at each end use Endwall Connection Details 1, 2, or 3

PIPE ARCH

Use Endwall Connection Details 2, 3, or 5 as applicable.

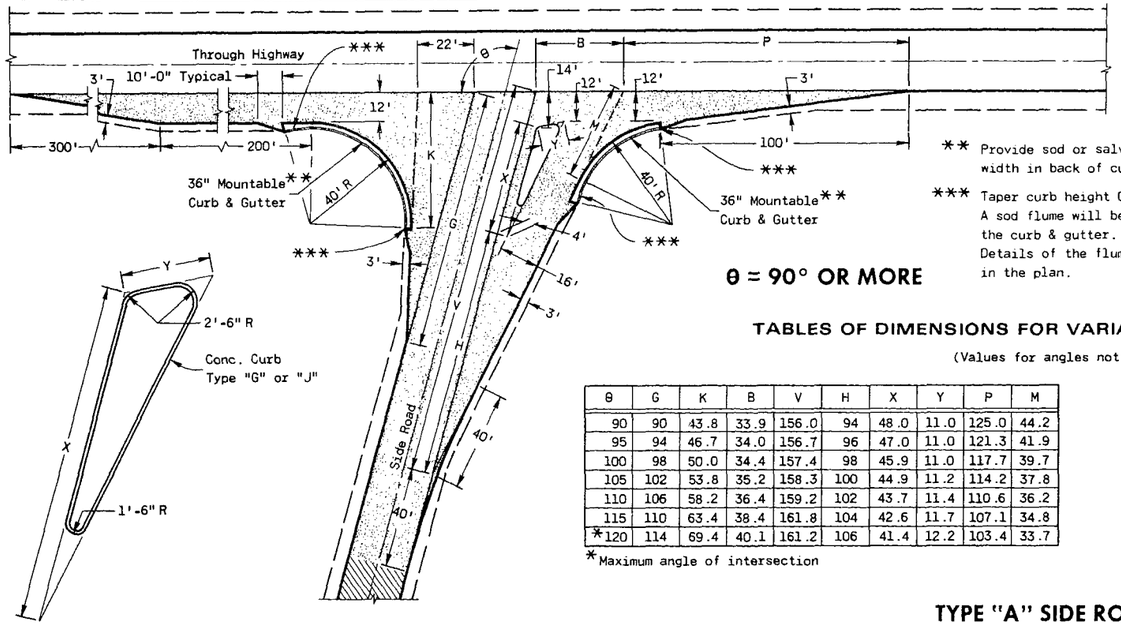
APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

State of Wisconsin
Department of Transportation
Division of Highways

APPROVED 3-9-77 DATE — CHIEF of FACILITIES DEVELOPMENT
APPROVED 3-9-77 DATE — STATE HIGHWAY ENGINEER
FHWA

S.D.D. 8 F 1-7

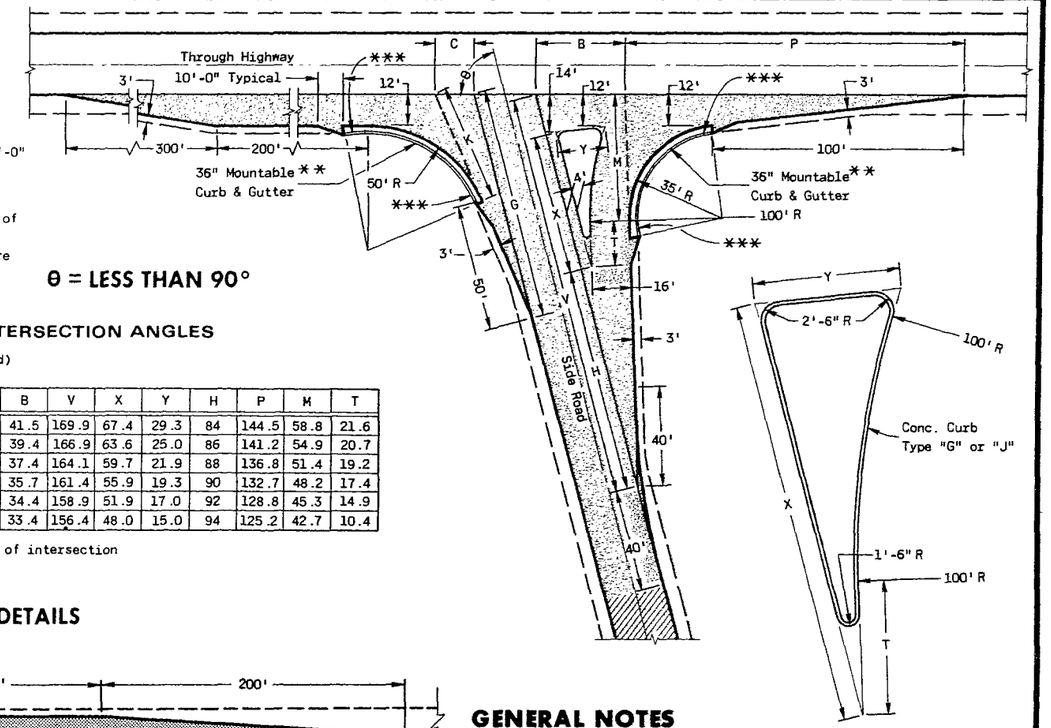
S.D.D. 8 F 1-7



θ = 90° OR MORE

** Provide sod or salvaged topsoil & seed to a 3'-0" width in back of curb & gutter sections.

*** Taper curb height 0" to 6" in 10'-0". A sod flume will be required at discharge end of the curb & gutter. Details of the flume(s) will be shown elsewhere in the plan.



θ = LESS THAN 90°

TABLES OF DIMENSIONS FOR VARIABLE SIDE ROAD INTERSECTION ANGLES

(Values for angles not shown shall be interpolated)

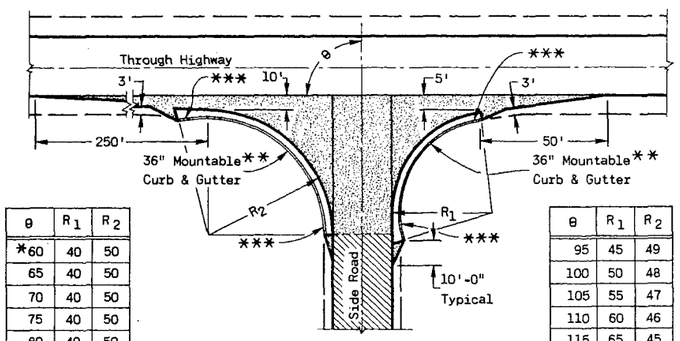
θ	G	K	B	V	H	X	Y	P	M
90	90	43.8	33.9	156.0	94	48.0	11.0	125.0	44.2
95	94	46.7	34.0	156.7	96	47.0	11.0	121.3	41.9
100	98	50.0	34.4	157.4	98	45.9	11.0	117.7	39.7
105	102	53.8	35.2	158.3	100	44.9	11.2	114.2	37.8
110	106	58.2	36.4	159.2	102	43.7	11.4	110.6	36.2
115	110	63.4	38.4	161.8	104	42.6	11.7	107.1	34.8
*120	114	69.4	40.1	161.2	106	41.4	12.2	103.4	33.7

*Maximum angle of intersection

θ	C	G	K	B	V	X	Y	H	P	M	T
*60	19.7	76.3	38.6	41.5	169.9	67.4	29.3	84	144.5	58.8	21.6
65	17.8	82.6	40.6	39.4	166.9	63.6	25.0	86	141.2	54.9	20.7
70	15.8	87.2	43.1	37.4	164.1	59.7	21.9	88	136.8	51.4	19.2
75	15.7	90.9	45.6	35.7	161.4	55.9	19.3	90	132.7	48.2	17.4
80	15.9	94.9	48.3	34.4	158.9	51.9	17.0	92	128.8	45.3	14.9
85	16.2	99.3	51.4	33.4	156.4	48.0	15.0	94	125.2	42.7	10.4

*Desirable minimum angle of intersection

TYPE "A" SIDE ROAD INTERSECTION DETAILS



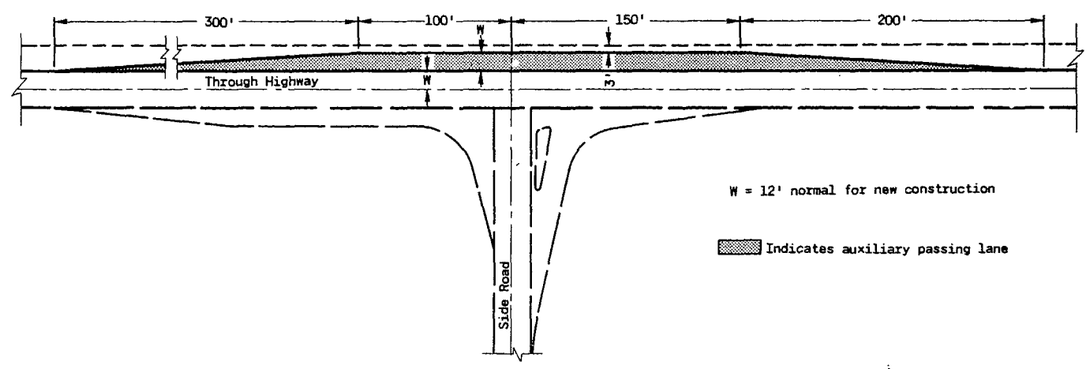
θ	R_1	R_2
*60	40	50
65	40	50
70	40	50
75	40	50
80	40	50
85	40	50
90	40	50

*Min. Angle of Intersection

TYPE "B" SIDE ROAD INTERSECTION DETAILS

θ	R_1	R_2
95	45	49
100	50	48
105	55	47
110	60	46
115	65	45
*120	70	44

*Max. Angle of Intersection



W = 12' normal for new construction

Indicates auxiliary passing lane

PASSING LANE DETAIL

GENERAL NOTES

Designs may be used interchangeably in combination or separately for any one complete intersection depending upon intersection angle and surfacing of each approach roadway.

Details on this drawing are for minimum design only, and not applicable to special conditions, as shown elsewhere on the plans.

SIDE ROAD SURFACING NOTE

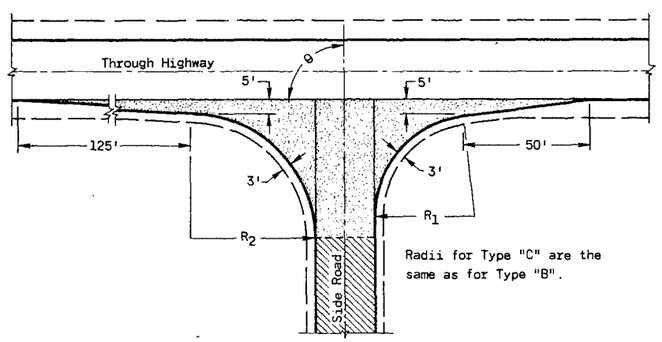
If the side road is not presently paved, pavement shall be placed to the limits shown. In the case where the construction limits are beyond the paving limits, gravel or crushed stone surfacing shall be placed between the paving limits and construction limits.

If the side road is presently paved, new pavement shall be placed to the limits of design as shown and beyond, if necessary, to meet existing pavement.

If the side road is the construction project, the intersection surfacing shall be the same as for the project.

New Pavement

Existing Surface

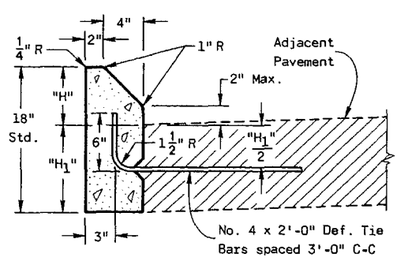


Radii for Type "C" are the same as for Type "B".

TYPE "C" SIDE ROAD INTERSECTION DETAILS

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

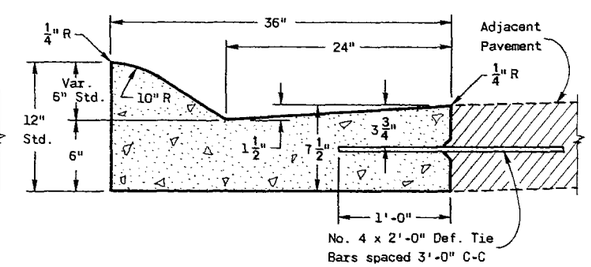
"H_1" = Same as adjacent pavement thickness for rigid pavement and 12" for non-rigid pavement (Tie Bars omitted).



TYPE "G" (INCLUDING TIE BARS)

TYPE "J" (EXCLUDING TIE BARS)

MOUNTABLE CONCRETE CURB



TYPE "A" (INCLUDING TIE BARS)

TYPE "D" (EXCLUDING TIE BARS)

MOUNTABLE CONCRETE CURB & GUTTER 36"

LAYOUT DETAILS FOR AT-GRADE SIDE ROAD INTERSECTIONS

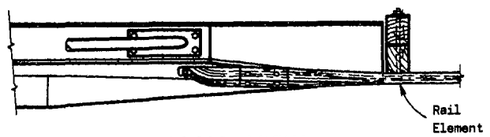
State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL
9-10-76 DATE — CHIEF of FACILITIES DEVELOPMENT

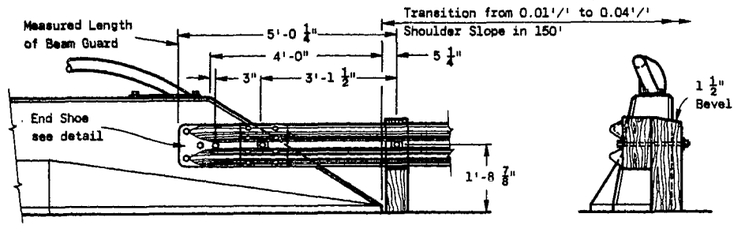
APPROVED
9-10-76 DATE — STATE HIGHWAY ENGINEER

S. D. D. 9A 1-3

S. D. D. 9A 1-3



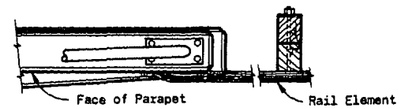
PLAN VIEW



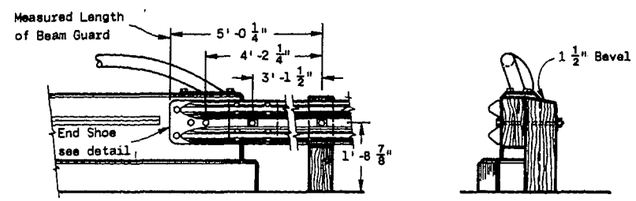
FRONT ELEVATION END ELEVATION

STRUCTURE MOUNTING DETAIL

SLOPING TYPE PARAPET WALL



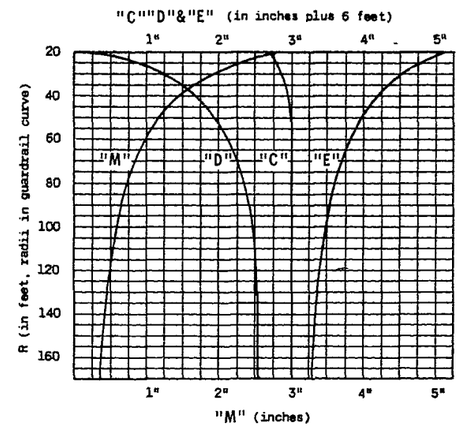
PLAN VIEW

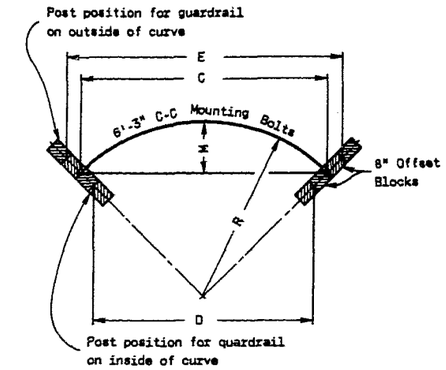


FRONT ELEVATION END ELEVATION

STRUCTURE MOUNTING DETAIL

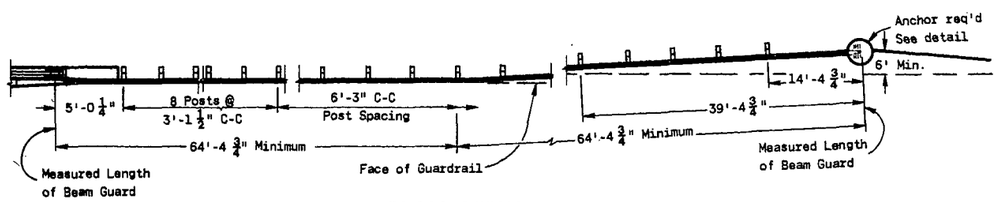
VERTICAL TYPE PAPAPET WALL



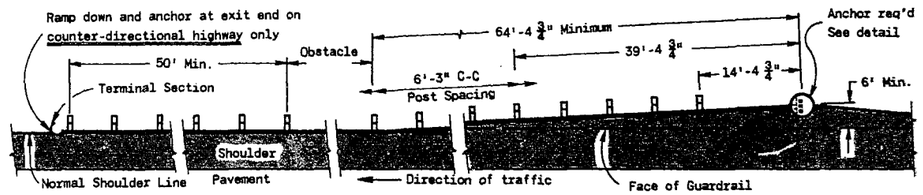


CHORD LENGTHS FOR POST SPACING AND MIDDLE ORDINATES FOR BEAM CURVING

CURVE DATA FOR POST SPACING AND BEAM CURVING

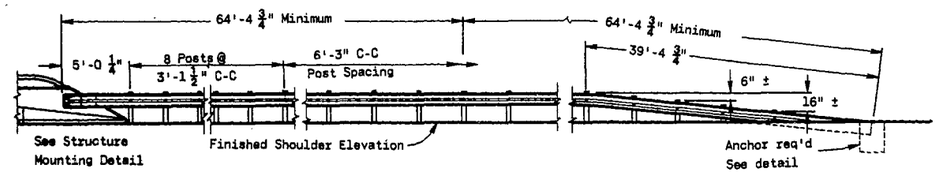


PLAN VIEW



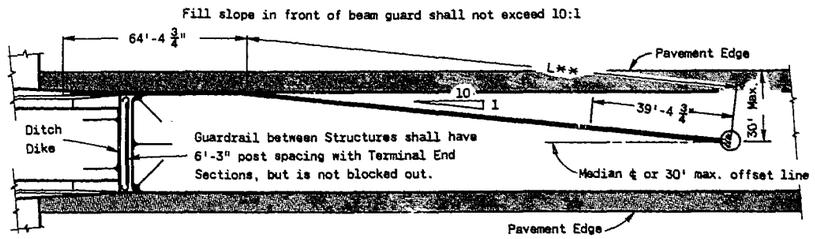
PLAN VIEW

TYPICAL INSTALLATION AT LOCATIONS OTHER THAN STRUCTURES



FRONT ELEVATION

TYPICAL INSTALLATION AT STRUCTURES



** Variable based on Median width or 30' max. offset

PLAN VIEW

MEDIAN PROTECTION

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.

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.

Square anchor alternates will be permitted. Square anchors shall be a minimun of 24 inches x 24 inches.

The shoulder widening to accommodate the anchored end of the guardrail shall be accomplished at the rate of widening not to exceed 15 to 1.

Upon approval of the Engineer, the 6 foot anchor offset may be reduced to nothing for replacement installations where existing conditions will not permit the desirable offset. However, when no offset greater than or equal to 3 feet can be provided, the minimum length of guardrail in advance of an obstacle (obstacle to anchor) shall be 150 feet.

The minimum clearance from the front face of guardrail to obstacle shall be 3 feet unless otherwise shown on contract plans. When clearance is less than 3 feet post spacing shall be reduced to 3 feet - 1 1/2 inches C.C.

The "Post Footing Details At Piers" shall be used when guardrail posts are over structure footings and less than 3 feet - 6 inches of earth is provided over the top of the footing.

NOTE:
THIS STANDARD DETAIL DRAWING CONSISTS OF TWO PLATES. AND BOTH PLATES ARE REQUIRED WHEN THIS STANDARD IS CALLED FOR IN THE PLANS.

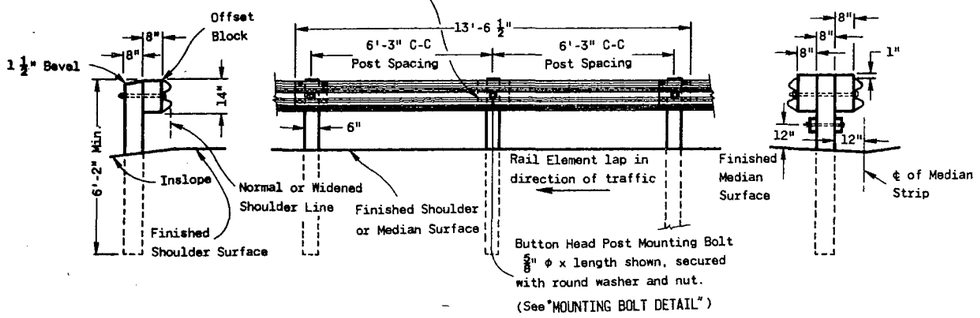
CLASS "A"
STEEL PLATE BEAM GUARD &
STEEL PLATE BEAM MEDIAN GUARD

State of Wisconsin
Department of Transportation
Division of Highways

S.D.D. 14 B 2-4a

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

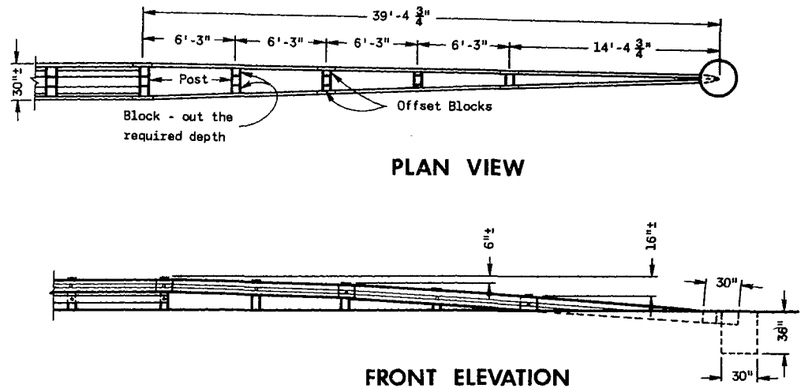
Sawed and treated timber posts and offset blocks shall be furnished and placed in accordance with Standard Specifacations. Posts shall be 6" x 8" x 6'-6" and have 6" x 8" x 14" offset blocks.



END ELEVATION FRONT ELEVATION END ELEVATION

STEEL PLATE BEAM GUARD STEEL PLATE BEAM MEDIAN GUARD

STEEL PLATE BEAM GUARD OR STEEL PLATE BEAM MEDIAN GUARD



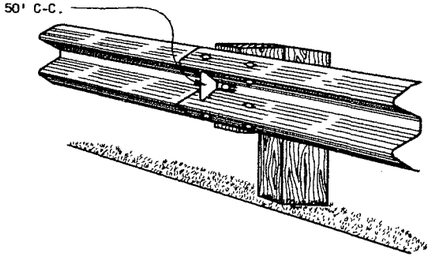
PLAN VIEW

FRONT ELEVATION

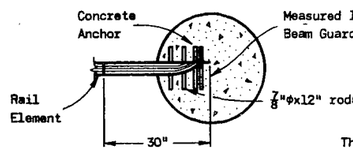
ANCHOR DETAIL FOR DOUBLE RAIL ELEMENT INSTALLATION

NOTE: (DIVIDED HIGHWAYS) Reflector spacing shall be 50' C-C on installations less than 200' long, with a minimum of 3 reflecters on any installation. For installations 200' or longer, spacing shall be 100' C-C.

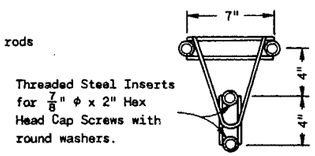
(COUNTER-DIRECTIONAL HIGHWAYS) Reflector spacing shall be 25' C-C on installations less than 200' long, with a minimum of 6 reflectors on any installation, and every other reflectorized surface shall be reversed. For installations 200' or longer, spacing shall be 50' C-C.



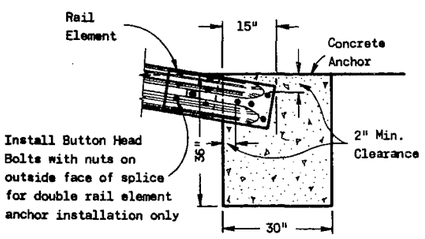
TYPICAL INSTALLATION



PLAN VIEW



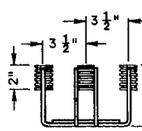
PLAN VIEW



SECTION VIEW

ANCHOR DETAIL

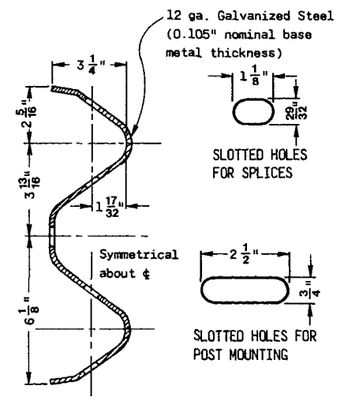
SINGLE RAIL ELEMENT INSTALLATION



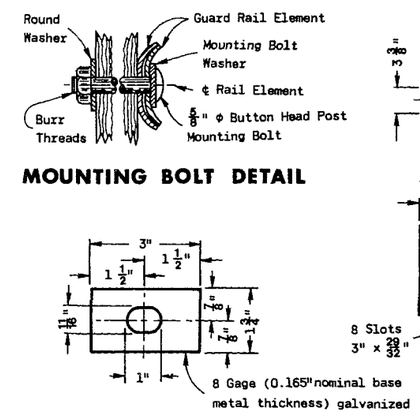
ELEVATION

4 BOLT INSERT ASSEMBLY

NOTE: Installation of 4 Bolt Insert Assembly (with Cap Screws inserted) to be part of Bridge Contract.

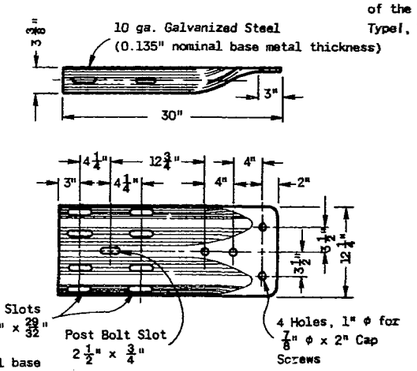


SECTION THRU RAIL ELEMENT



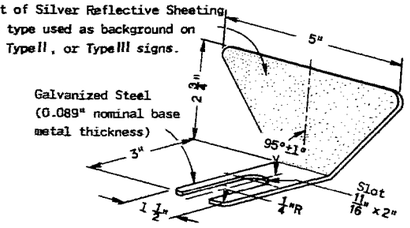
MOUNTING BOLT DETAIL

MOUNTING BOLT WASHER

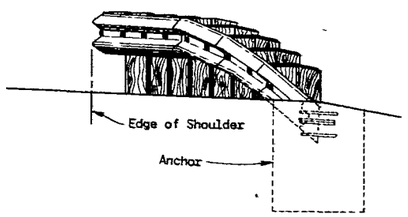


END SHOE DETAIL

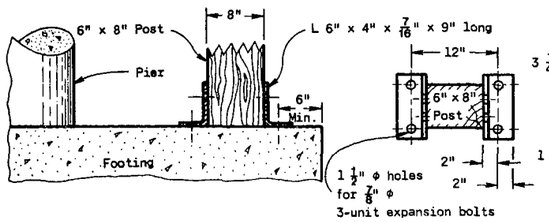
The reflectorized surface shall consist of Silver Reflective Sheeting of the type used as background on Type I, Type II, or Type III signs.



REFLECTOR DETAIL

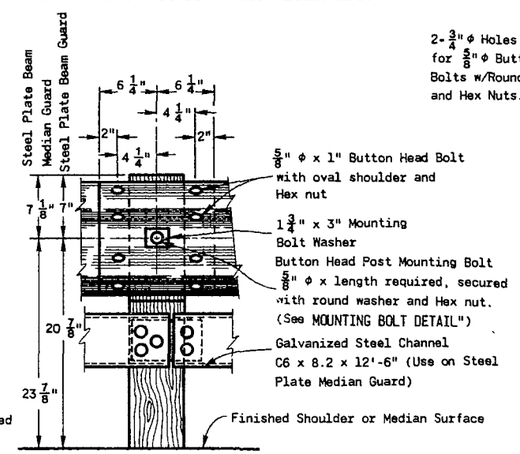


TYPICAL TERMINAL END ELEVATION

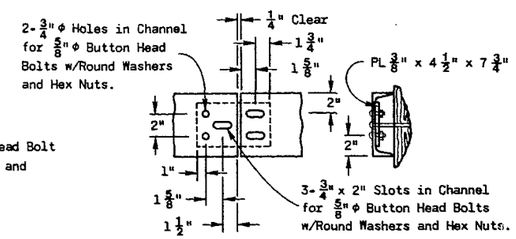


SECTION VIEW PLAN VIEW ELEVATION

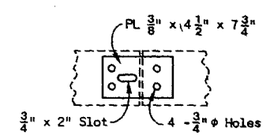
POST FOOTING DETAIL AT PIERS



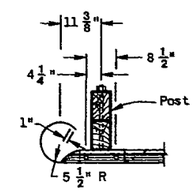
RAIL ELEMENT SPLICING AND POST MOUNTING DETAIL



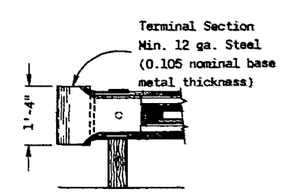
RUB RAIL SPLICE DETAIL



SPLICE PLATE



PLAN VIEW



FRONT ELEVATION

TERMINAL SECTION DETAILS

NOTE:
THIS STANDARD DETAIL DRAWING CONSISTS OF TWO PLATES. AND BOTH PLATES ARE REQUIRED WHEN THIS STANDARD IS CALLED FOR IN THE PLANS.

CLASS "A"
STEEL PLATE BEAM GUARD &
STEEL PLATE BEAM MEDIAN GUARD

State of Wisconsin
Department of Transportation
Division of Highways

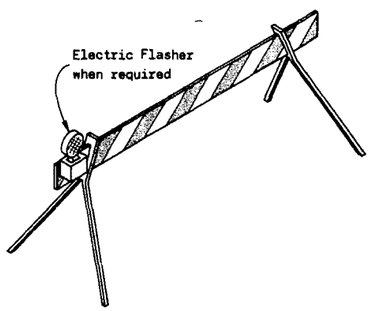
RECOMMENDED FOR APPROVAL
5-7-76 DATE — CHIEF OF FACILITIES DEVELOPMENT
APPROVED
5-11-76 DATE — STATE HIGHWAY ENGINEER

S.D.D. 14 B 2-4b

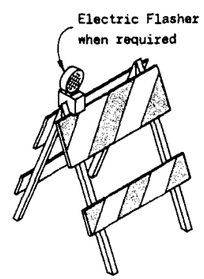
TABLE OF BARRICADE CHARACTERISTICS

BARRICADE TYPE	I	II	III
Height	3' Minimum		5' Minimum
* Rail Width	8" Minimum to 12" Maximum		
Rail Length	2' Minimum to variable Maximum		
** Stripe Width	6" at 45° Angle		
Stripe Colors	Reflectorized Orange & White		

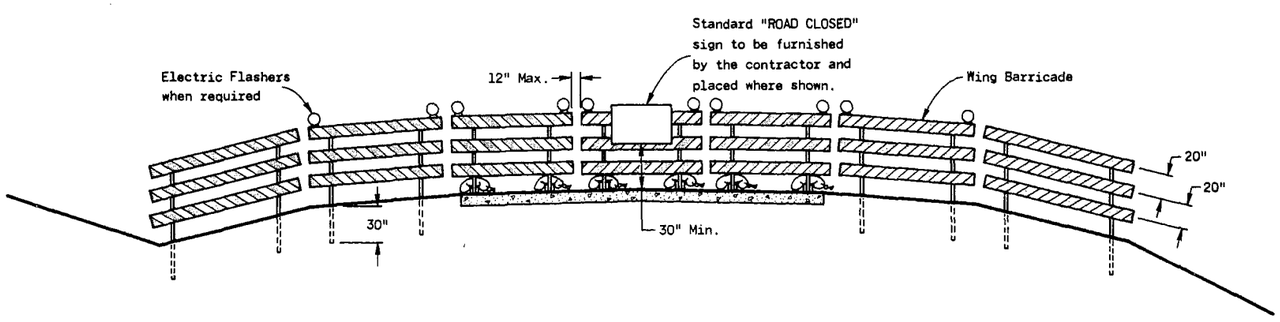
* Nominal dimensions when barricade is constructed of lumber.
** May be 4" for rail lengths less than 3'.



TYPICAL TYPE I BARRICADE



TYPICAL TYPE II BARRICADE



TYPICAL INSTALLATION SHOWING TYPE III BARRICADE

CONSTRUCTION BARRICADES

R11-2

48" x 30"

Black Lettering on Reflective
White Background
Letter Series "D"
Letter height 8"

W20-3

48" x 48"

Black Lettering on Reflective
Orange Background
Letter Series "D"
Letter height 7"

STANDARD SIGNS-TYPE II

GENERAL NOTES

The contractor shall furnish, erect and maintain Barricades and Signs. Details regarding location, spacing, dimensions, fabrication, material, sign lettering, lighting devices and color of Barricades and Signs shall conform to this drawing, the Wisconsin Manual on Uniform Traffic Control Devices, the Standard Specifications, Special Provisions and/or plans.

Type III Barricades and Signs shall be erected at the termini of projects and at other road or street locations where it is necessary to control or eliminate public access to the con - struction area.

Type I and II Barricades shall be used on projects when traffic is to be maintained through the construction area.

The actual field location of barricade installations and advance signs shall be as directed by the Engineer.

Each barricade shall have the name and telephone number of a person responsible for 24 hour emergency service printed in letters at least $^{3}/_{4}$ inch in height.

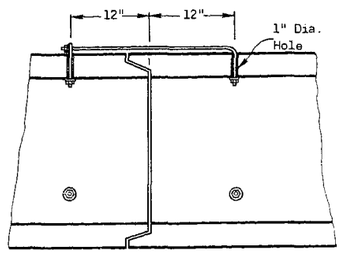
CONSTRUCTION BARRICADES & STANDARD SIGNS

State of Wisconsin
Department of Transportation
Division of Highways

APPROVED 10-1-76 DATE — CHIEF of FACILITIES DEVELOPMENT

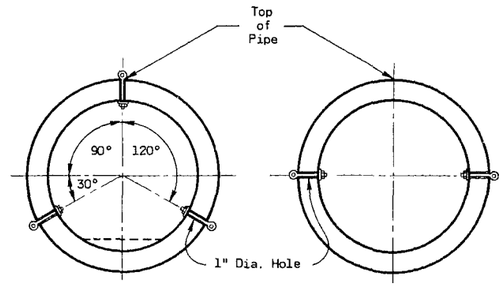
APPROVED 10-1-76 DATE — STATE HIGHWAY ENGINEER

S.D.D. 15C1-5



EYE BOLT AND TIE ROD ASSEMBLY ALT. #2

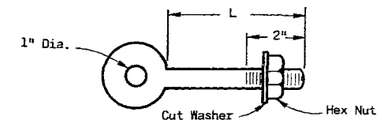
LONGITUDINAL SECTION



3 CONNECTIONS
FOR
PIPES OVER 36"
OR CATTLE PASS

2 CONNECTIONS
FOR
PIPES 36" AND SMALLER

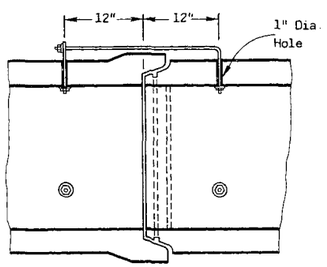
TRANSVERSE SECTION



$\frac{7}{8}$" EYE BOLT

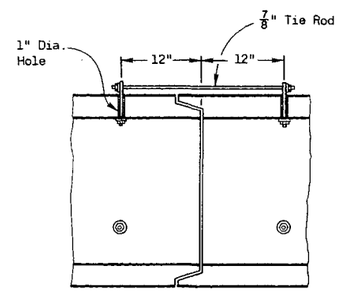
EYE BOLT DIMENSION TABLE

Pipe Size	Length	
	Tongue & Groove Pipe	Modified Bell Pipe
18" to 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	-
60"	7 1/4"	
72"	8"	



MODIFIED BELL
EYE BOLT AND TIE ROD ASSEMBLY ALT. #2

LONGITUDINAL SECTION



EYE BOLT AND TIE ROD ASSEMBLY ALT. #1

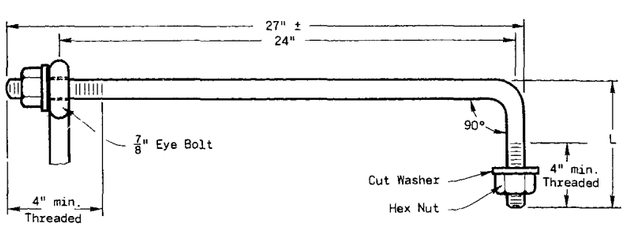
LONGITUDINAL SECTION

GENERAL NOTES

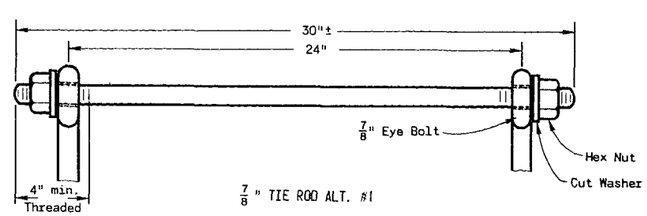
Concrete culvert pipe shall be tied together in the manner illustrated by this detail at locations designated on the plan or directed by the Engineer.

Materials, fabrication and work necessary to tie culvert pipe as indicated by this detail will be considered incidental to Culvert pipe or Reinforced Concrete Culvert pipe.

Detailed drawings for proposed alternate designs for Joint Ties shall be submitted to the Engineer for approval.



$\frac{7}{8}$" TIE ROD ALT. #2



$\frac{7}{8}$" TIE ROD ALT. #1

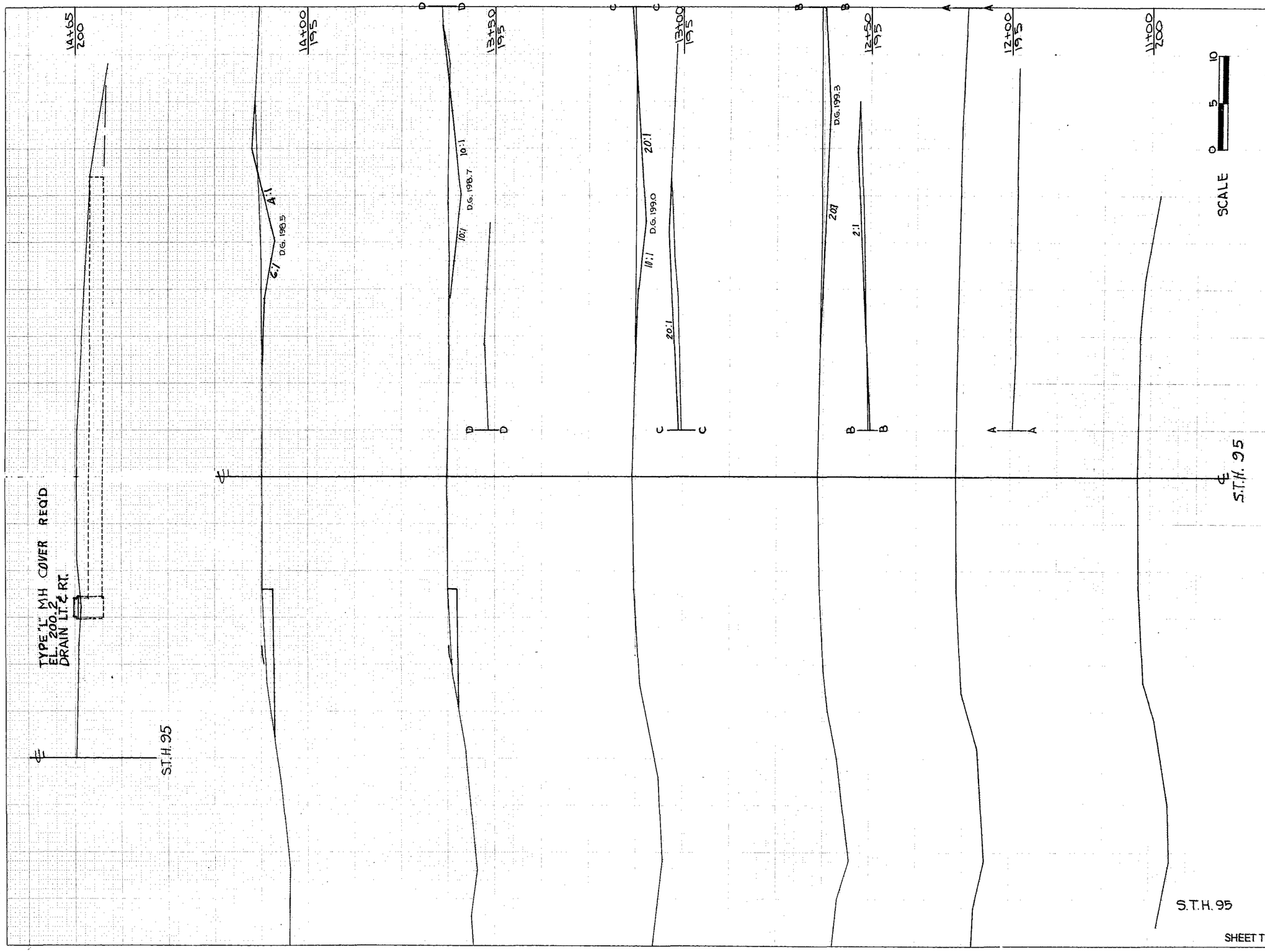
JOINT TIES FOR CONCRETE PIPE

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:
2-13-74 DATE — CHIEF of FACILITIES DEVELOPMENT
APPROVED
3-24-74 DATE — STATE HIGHWAY ENGINEER

S.D.D. 8F4-1

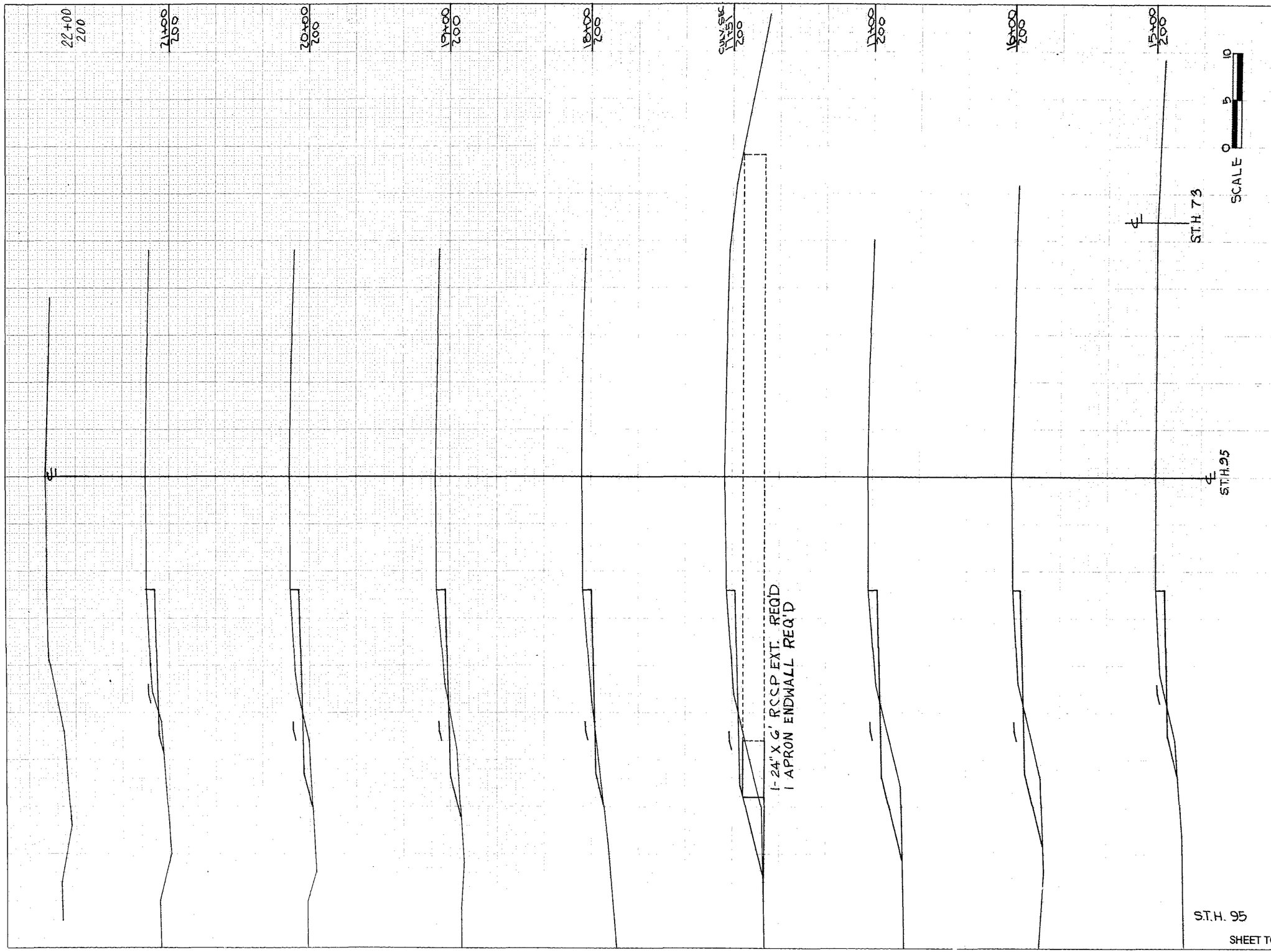
S.D.D. 8F4-1



STATE PROJECT NUMBER	SHEET NUMBER
1521-3-00	8

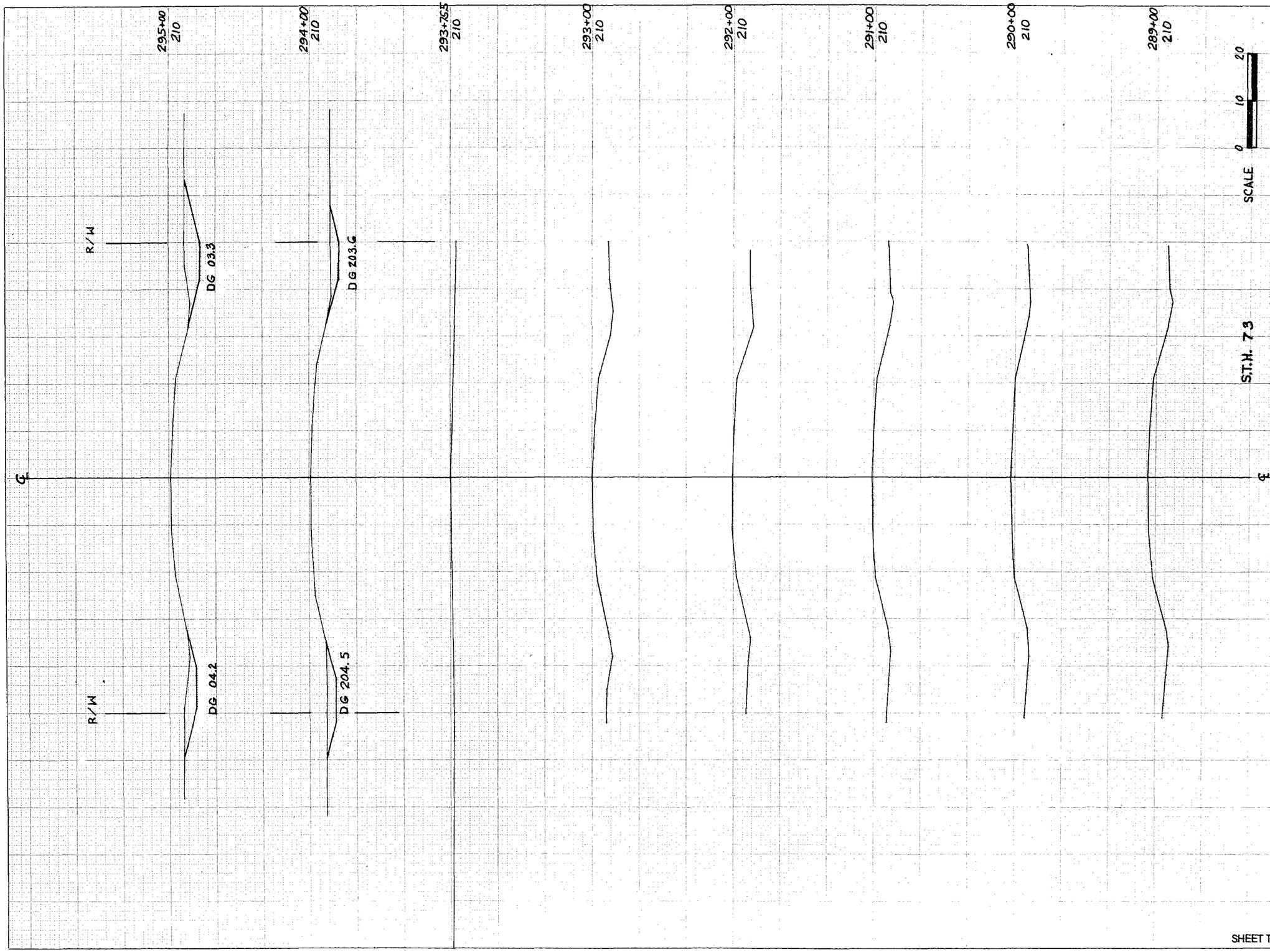
STATION	DISTANCE	YARDAGE EXCAVATION UNCL.				YARDAGE FILL
+40						
+50		2				2
13		30				18
+50		45				13
14		67				4
15		41				0
SHEET TOTAL		185				37

Catalog No. 2130-C121



STATE PROJECT NUMBER	SHEET NUMBER
1521-3-00	8.1

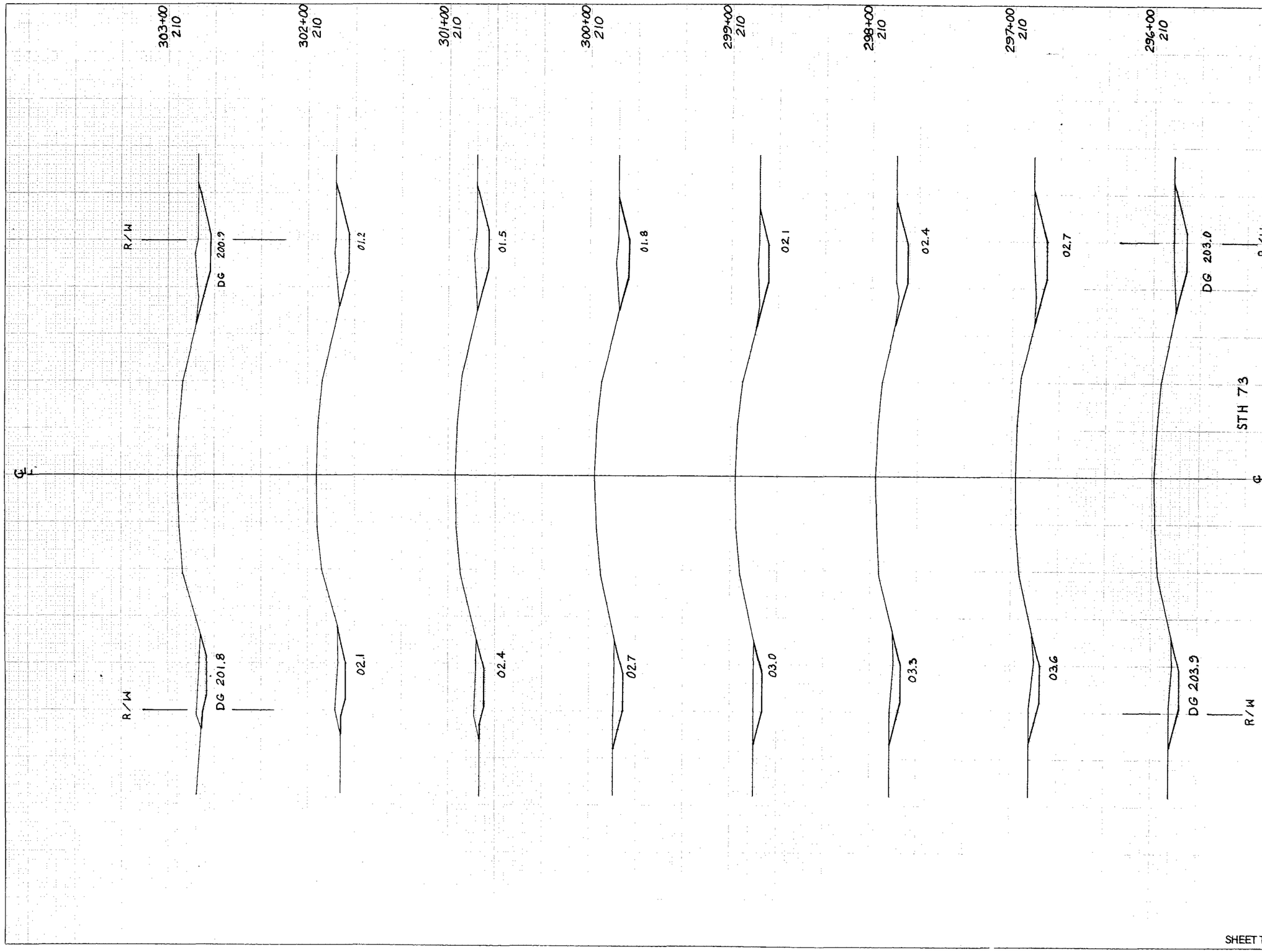
STATION	DISTANCE	YARDAGE EXCAVATION UNCL.				YARDAGE FILL
15						
		28				53
16						
		26				110
17						
		15				63
151						
		15				34
18						
		28				31
19						
		28				44
20						
		30				24
21						
		30				4
22						
		15				0
23						
SHEET TOTAL		215				363



STATE PROJECT NUMBER	SHEET NUMBER
1521-3-71	8.2

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.					YARDAGE FILL
293							
		112					
294							
		304					
295							
SHEET TOTAL		416					

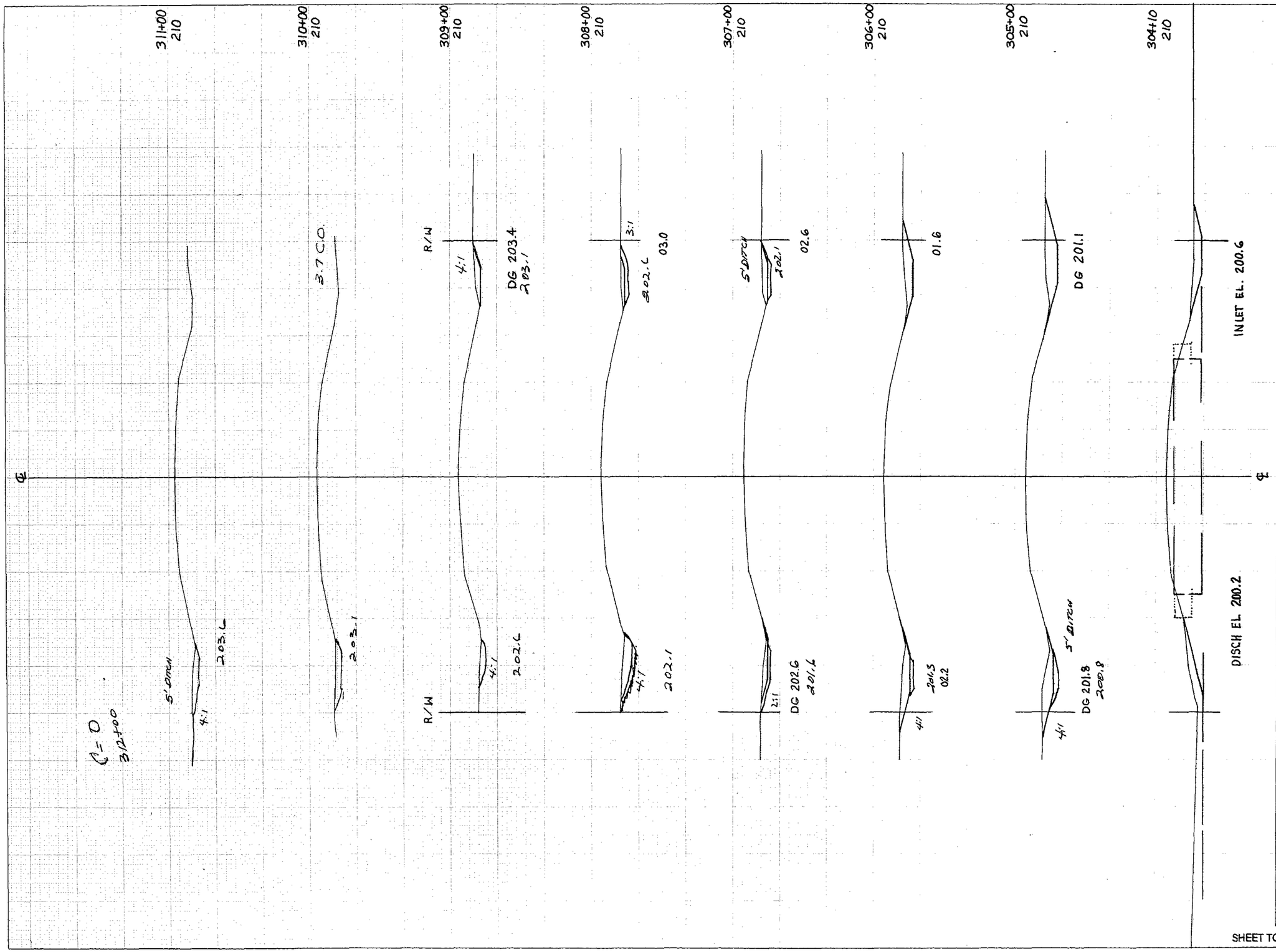
Catalog No. 2130-C121



STATE PROJECT NUMBER	SHEET NUMBER
1521-3-71	8.3

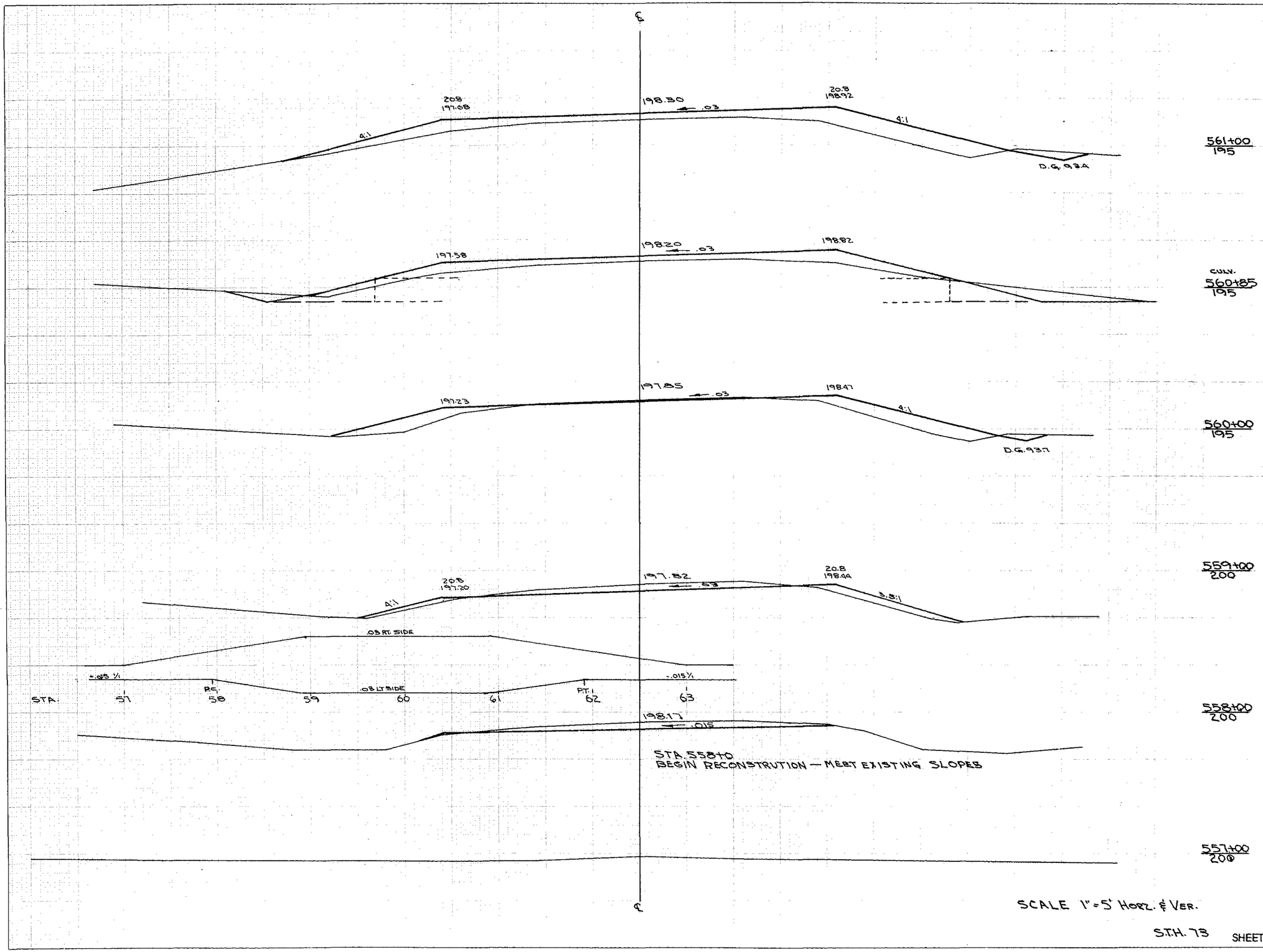
STATION	DISTANCE	YARDAGE EXCAVATION UNCL.				YARDAGE FILL
295						
		344				
296						
		304				
297						
		293				
298						
		263				
299						
		259				
300						
		291				
301						
		307				
302						
		309				
303						
SHEET TOTAL		2370				

Catalog No. 2130-C121



STATE PROJECT NUMBER	SHEET NUMBER
1521-3-71	8.4

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.				YARDAGE FILL
303						
		259				
304+10						
		237				
305						
		226				
306						
		153				
307						
		56				
308						
		39				
309						
		24				
310						
SHEET TOTAL		974				

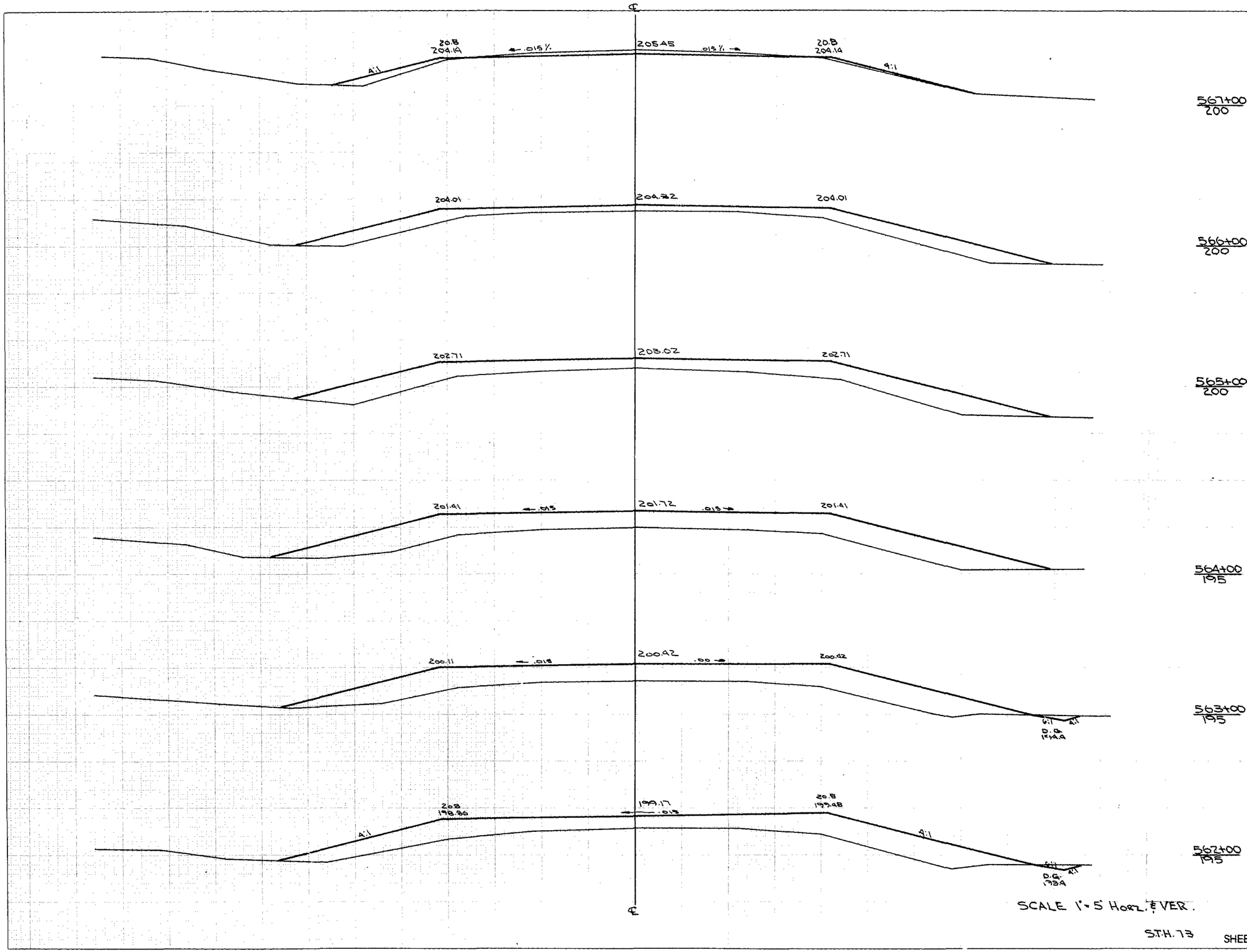


STATE PROJECT NUMBER	SHEET NUMBER
1521-03-71	8.5

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.				FILL
558						
		0				75
559						
		0				70
560						
		13				225
561						
		11				415
562						
SHEET TOTAL		24				785

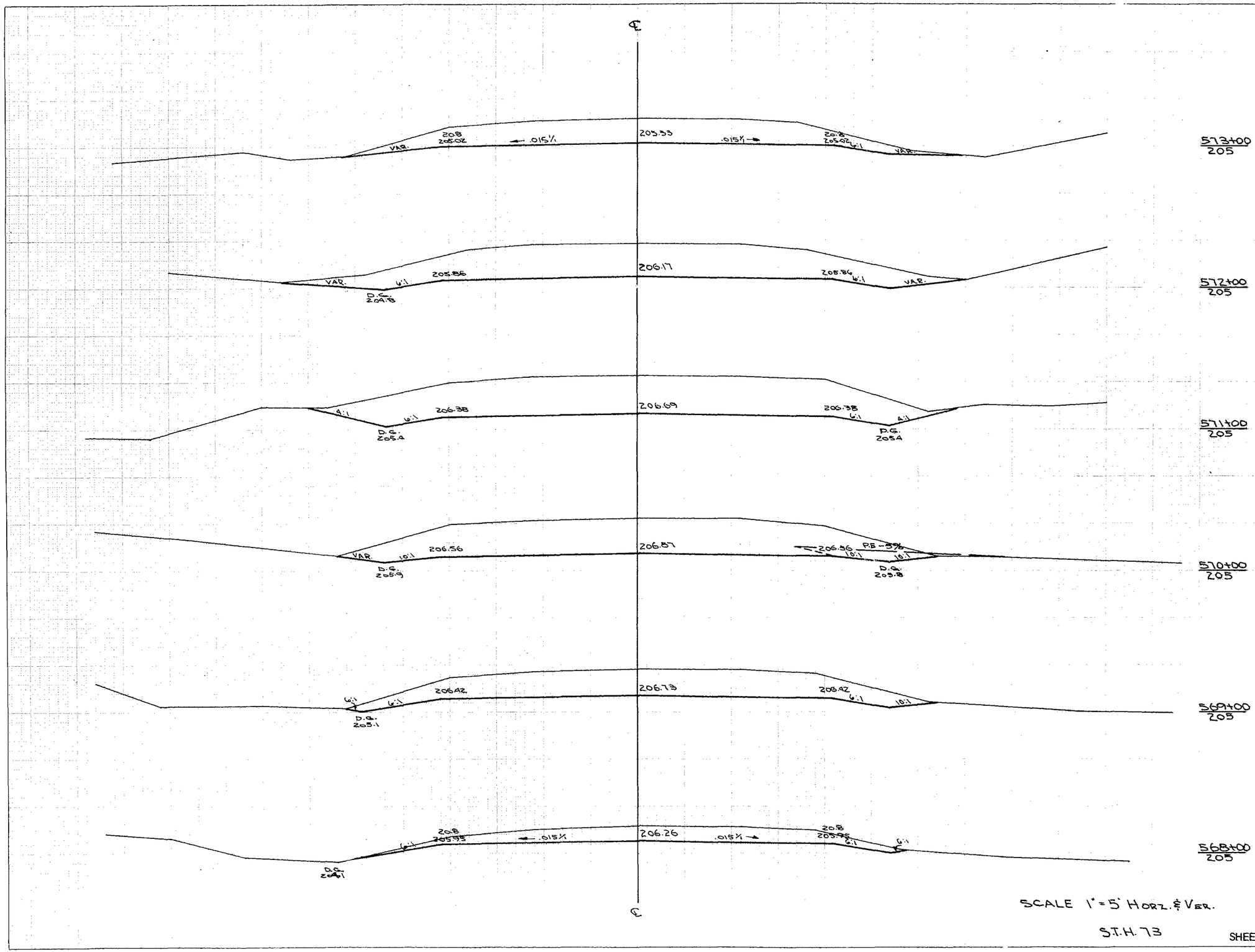
S.T.H. 73

Catalog No. 2130-C121



STATE PROJECT NUMBER	SHEET NUMBER
1521-03-71	8.6

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.				YARDAGE FILL
562						
		7				560
563						
		4				612
564						
		0				545
565						
		0				375
566						
		20				175
567						
		140				25
568						
SHEET TOTAL		171				2292

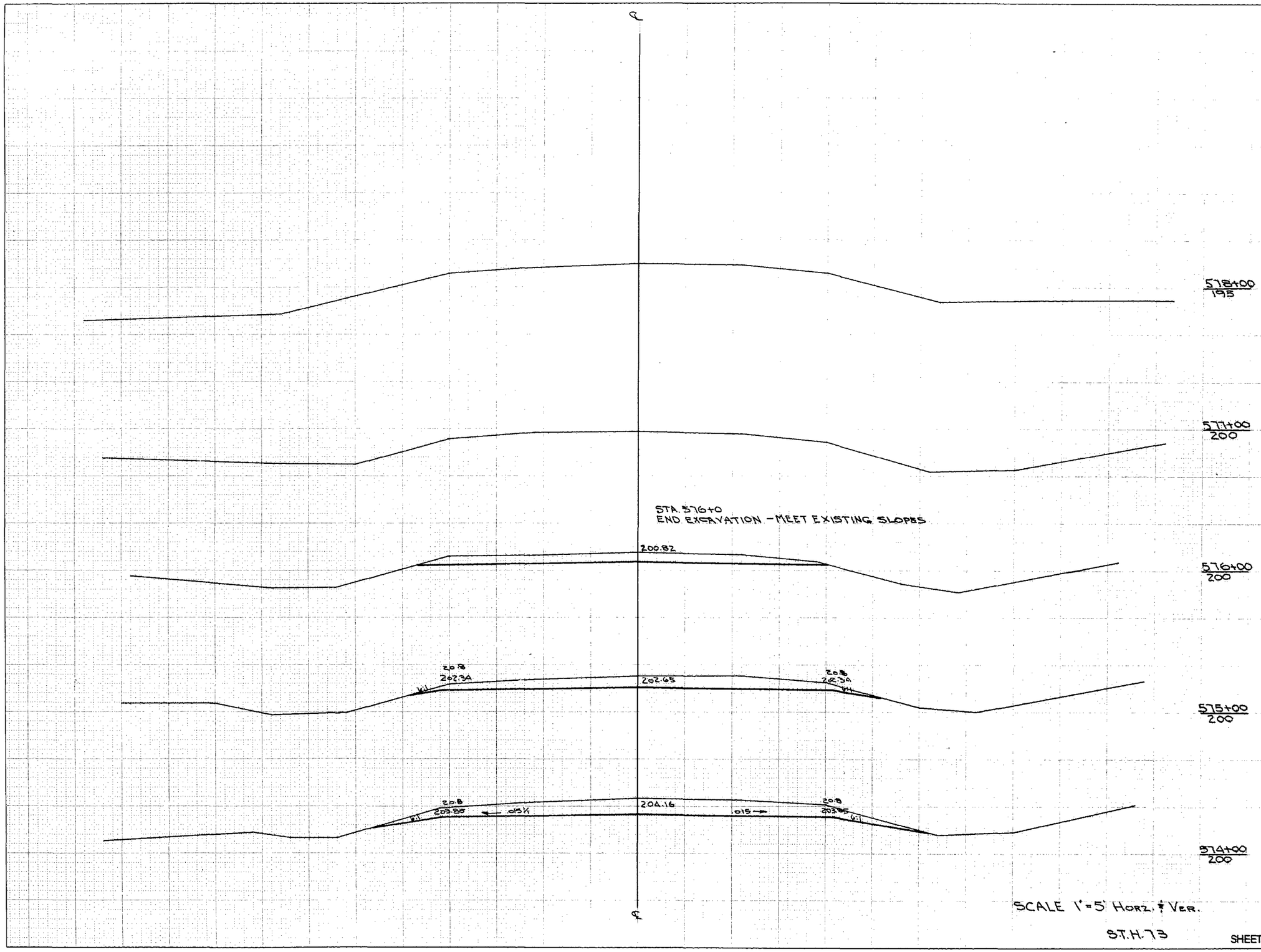


SCALE 1" = 5' HORZ. & VER.

S.T.H. 73

STATE PROJECT NUMBER	SHEET NUMBER
1521-03-71	8.7

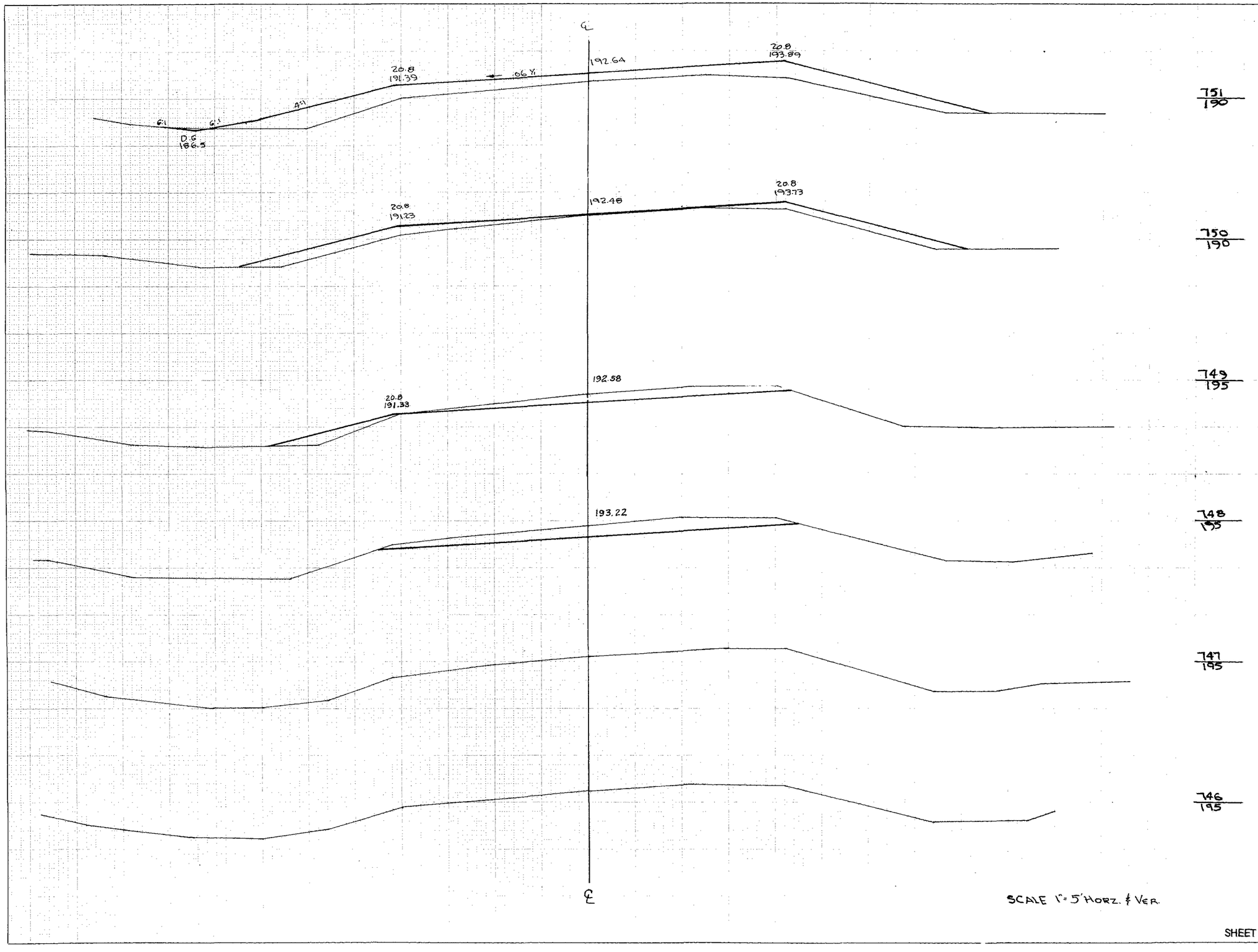
STATION	DISTANCE	YARDAGE EXCAVATION UNCL.				YARDAGE FILL
568						
		380				0
569						
		610				0
570						
		765				0
571						
		755				0
572						
		560				0
573						
		360				0
574						
SHEET TOTAL		3430				0



STATE PROJECT NUMBER	SHEET NUMBER
1521-03-71	8.8

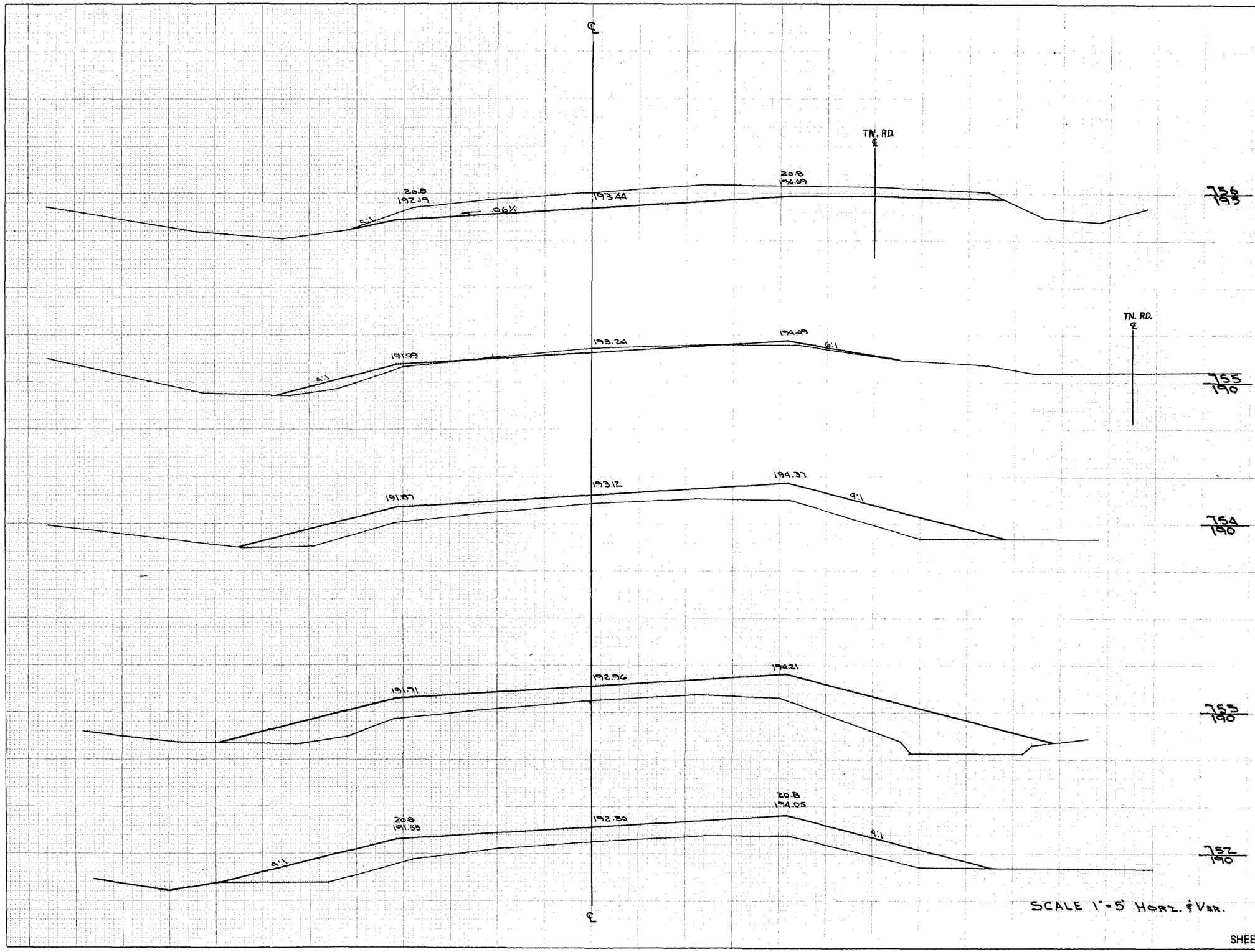
STATION	DISTANCE	YARDAGE EXCAVATION UNCL.				FILL
574						
		220				0
575						
		155				0
576						
SHEET TOTAL		375				0

Catalog No. 2130-C121



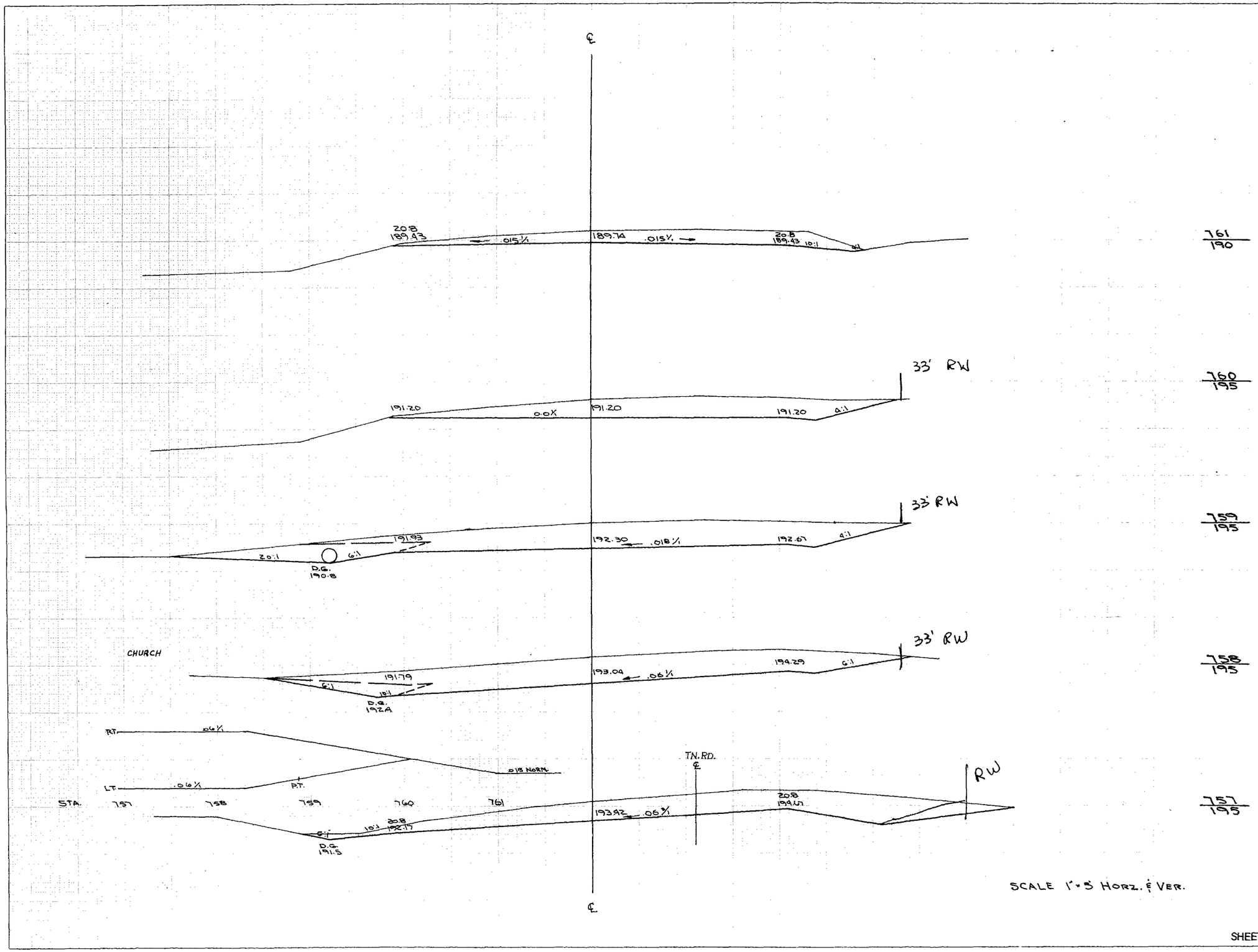
STATE PROJECT NUMBER	SHEET NUMBER
1521-03-71	8.9

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.				FILL
748		9				76
749		6				103
750		6				256
751		6				459
752						
SHEET TOTAL		27				894



STATE PROJECT NUMBER	SHEET NUMBER
1521-03-71	8.10

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.				FILL
752						
		0				656
753						
		0				585
754						
		17				235
755						
		246				24
756						
		476				0
757						
SHEET TOTAL		739				1500

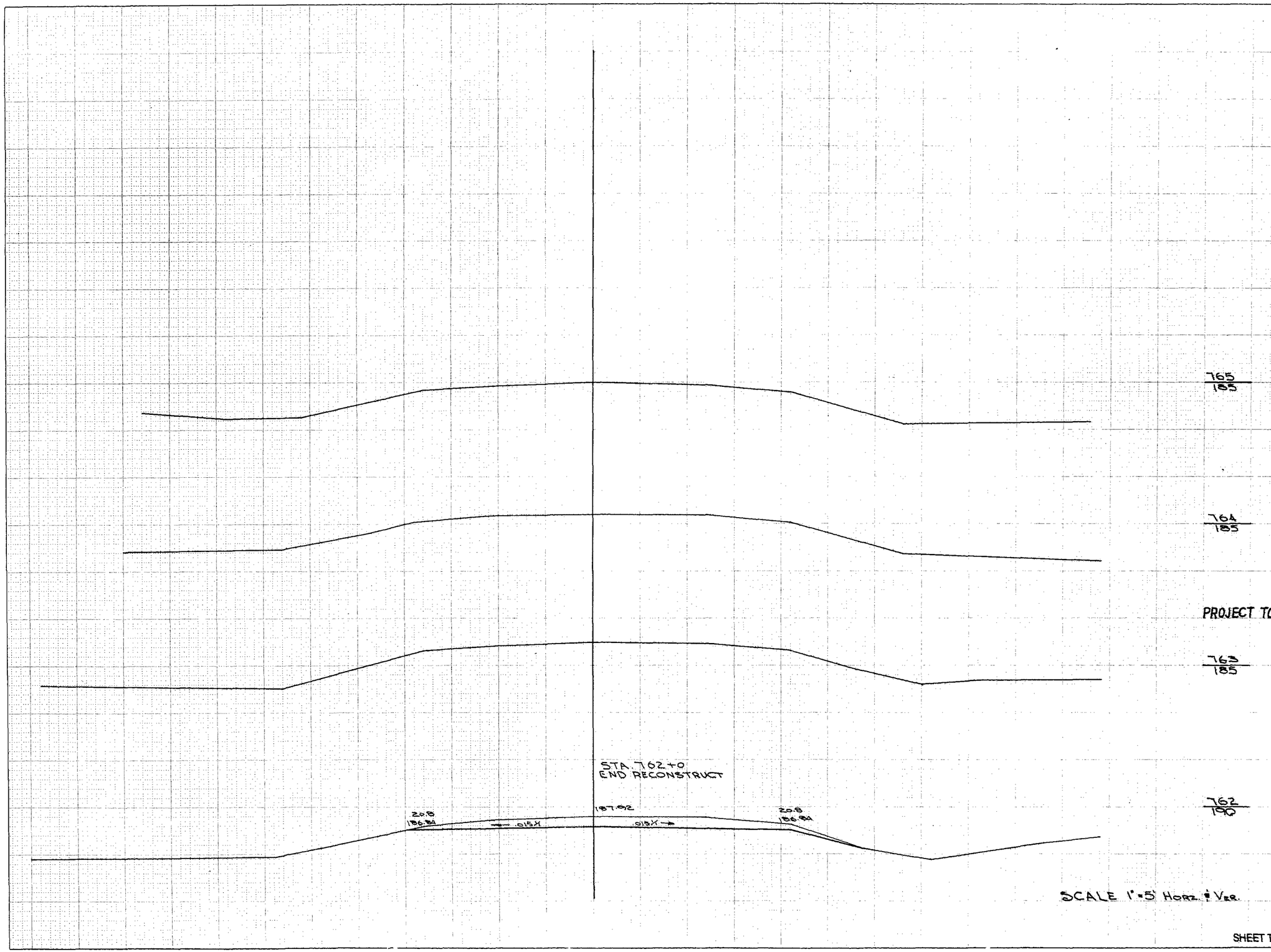


SCALE 1" = 5' HORZ. & VER.

STATE PROJECT NUMBER	SHEET NUMBER
1521-03-71	8.11

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	EXCAVATION	EXCAVATION	EXCAVATION	FILL
757						
		528				0
758						
		570				0
759						
		439				0
760						
		257				0
761						
		180				0
762						
SHEET TOTAL		1974				0

Catalog No. 2130-C121



STATE PROJECT NUMBER	SHEET NUMBER
1521-03-71	8.12

STATION	DISTANCE	YARDAGE				
		EXCAVATION				FILL
		UNCL.		BORROW		
S.T.H. 95	400		200			400
S.T.H. 73	10500		250			5471
PROJECT TOTALS	10900		450			5871
SHEET TOTAL						

Catalog No