STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9465-1-70	BRS 1251(7)	1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

TOMAHAWK RIVER BRIDGE & APPROACHES

C.T.H. "Y"

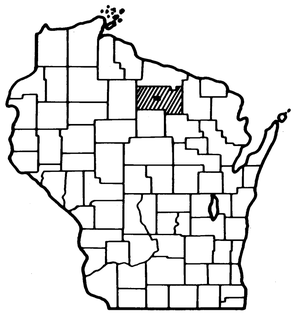
ONEIDA COUNTY

STATE PROJECT NUMBER
9465-1-70

Index of Sheets

Sheet No.	1	Title
Sheet No.	2 - 2.2	Typical Sections and Details
Sheet No.	3	Estimate of Quantities
Sheet No.	3A	Miscellaneous Quantities
Sheet No.	4	Right of Way Plat
Sheet No.	5	Plan and Profile
Sheet No.	6 - 6.7	Standard Detail Drawings
Sheet No.	—	Standard Sign Plates
Sheet No.	8 - 8.9	Structure Plans
Sheet No.	—	Computer Earthwork Data
Sheet No.	9 - 9.5	Cross Sections

TOTAL SHEETS = 32



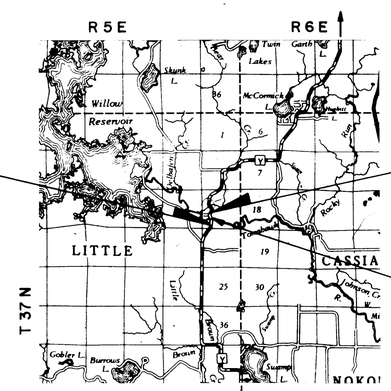
Design Designation

A.D.T. (1982)	= 250
A.D.T. (2002)	= 450
D.H.V.	= 54
D.	= 50/50
T.	= 9% A.D.T.
V.	= 50 M.P.H.

BEGIN PROJECT 9465-1-70
STA. 20+00
N 190,900 ± 200
E 2,048,300 ± 200

END PROJECT 9465-1-70
STA. 37+49.96

STRUCTURE B-43-29



N

Conventional Signs

County Line
Township or Range Line
Section Line
Corporate or City Limits
Property line
Lot Line
Existing Right of Way Line
New Right of Way Line
Base or Survey Line
Slope Intercept
Existing Roadway or Private Entrance

Caution Symbol (Combustible fluids under pressure)
Railroads
Fence (TYPE)
Culverts in Place
Culverts Required
Power Pole
Telephone or Telegraph Pole
Right of Way Markers
Marsh
Wooded Area
Grade Elevation 876.8

Layout
Scale 0 1 2 3 MILES

Total Net Length of Centerline = 0.331 Mi.

NOTE: ALL COORDINATES SHOWN ON THIS PLAN ARE BASED ON THE WISCONSIN COORDINATE SYSTEM NORTH ZONE AND ARE SCALED FROM U.S.G.S. TOPOGRAPHIC MAP, BURROWS LAKE, WISCONSIN, QUADRANGLE FOR IDENTIFICATION ONLY.

APPROVED FOR
ONEIDA COUNTY
BY

11/9/82 John Kunach
DATE HIGHWAY COMMISSIONER

ORIGINAL PLANS PREPARED
BY
DONOHUE AND ASSOCIATES, INC.
CONSULTING ENGINEERS
MADISON, WISCONSIN

WISCONSIN JAMES LUCK E-12 MADISON WIS PROFESSIONAL ENGINEER

James R. Luck
CONSULTING ENGINEER

11/24/82
DATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Surveyor DONOHUE & ASSOC. District Checker W.A.L.
Designer DONOHUE & ASSOC. C. O. Checker BJE
District Supervisor R.J.S. C.O. Coordinator LAS

Approved:
Date 1/9/84 R.O. Schindelholz
District Transportation Director

Approved:
Date 2-6-84 D.J. Strand
Chief Design Engineer

Approved:
Date 2/9/84 E.J. Bystek
Director of Development

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

Approved:
Date
Division Administrator

D/A 10465

Cat. No. 2130 – 0110

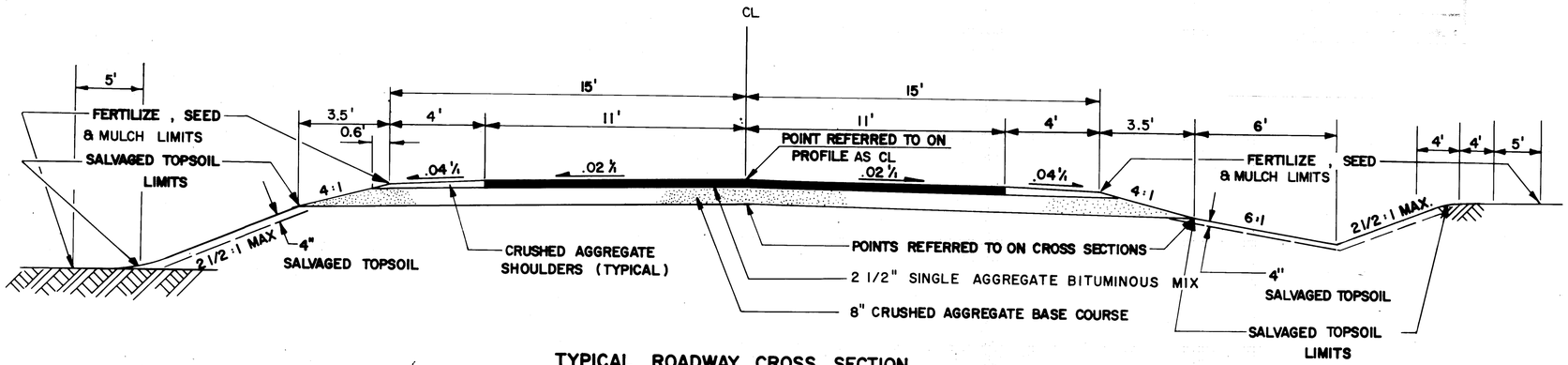
ONEIDA

9465-1-70

0-36²

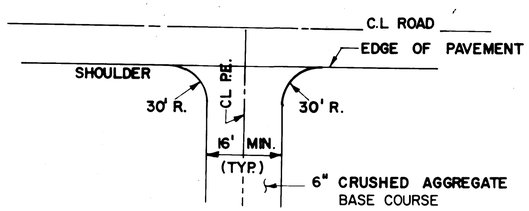
STATE PROJECT NUMBER	SHEET NO.
9465-1-70	2

TYPICAL SECTIONS

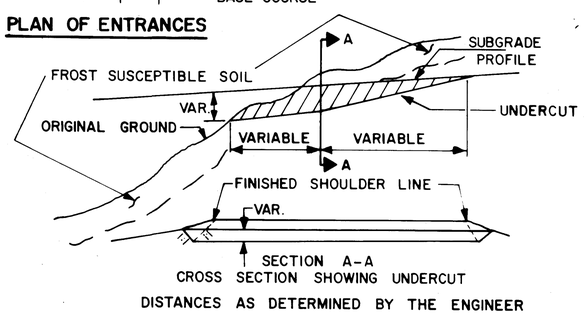


TYPICAL ROADWAY CROSS SECTION

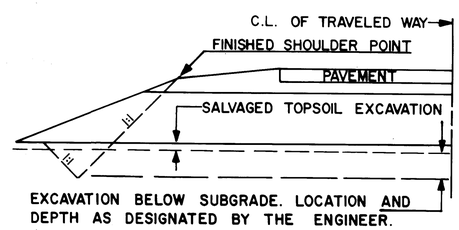
CTH "Y"



PLAN OF ENTRANCES



DETAIL FOR EXCAVATION AT MOUTH OF CUTS



DETAIL FOR EXCAVATION BELOW SUBGRADE

STANDARD DETAIL DRAWINGS

8E8-1	TYPICAL INSTALLATIONS OF EROSION BALES
8F1-9	APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
9A1-5	LAYOUT DETAILS FOR AT-GRADE SIDE ROAD INTERSECTIONS
12A3-4	NAME PLATE-STRUCTURES
14B2-7A & 6B	CLASS "A" STEEL PLATE BEAM GUARD
15A1-4	MARKER POSTS FOR RIGHT-OF-WAY
15C1-7	CONSTRUCTION BARRICADES & STANDARD SIGNS

UTILITIES

GENERAL TELEPHONE COMPANY OF WISCONSIN
MINOCQUA, WISCONSIN 54548
MR. LEE ADAMS
1-715-356-9467

WISCONSIN PUBLIC SERVICE CORPORATION, BOX 170
WOODRUFF WISCONSIN 54568
MR. JAMES REHM
1-715-356-3211

GENERAL NOTES

NO TREES ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.
SHRINKAGE VARIABLE UNCLASSIFIED ESTIMATED AT 25%.

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

SEED MIXTURE NUMBER 1 SHALL BE USED.
CURVE DATA BASED ON ARC DEFINITION.
ALL COORDINATES SHOWN ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE SYSTEM NORTH ZONE.
BEARINGS SHOWN ON THIS PLAN ARE ASSUMED BEARINGS.
DISTANCES SHOWN ON THIS PLAN ARE GROUND DISTANCES.
PLAN ELEVATIONS = USGS DATUM

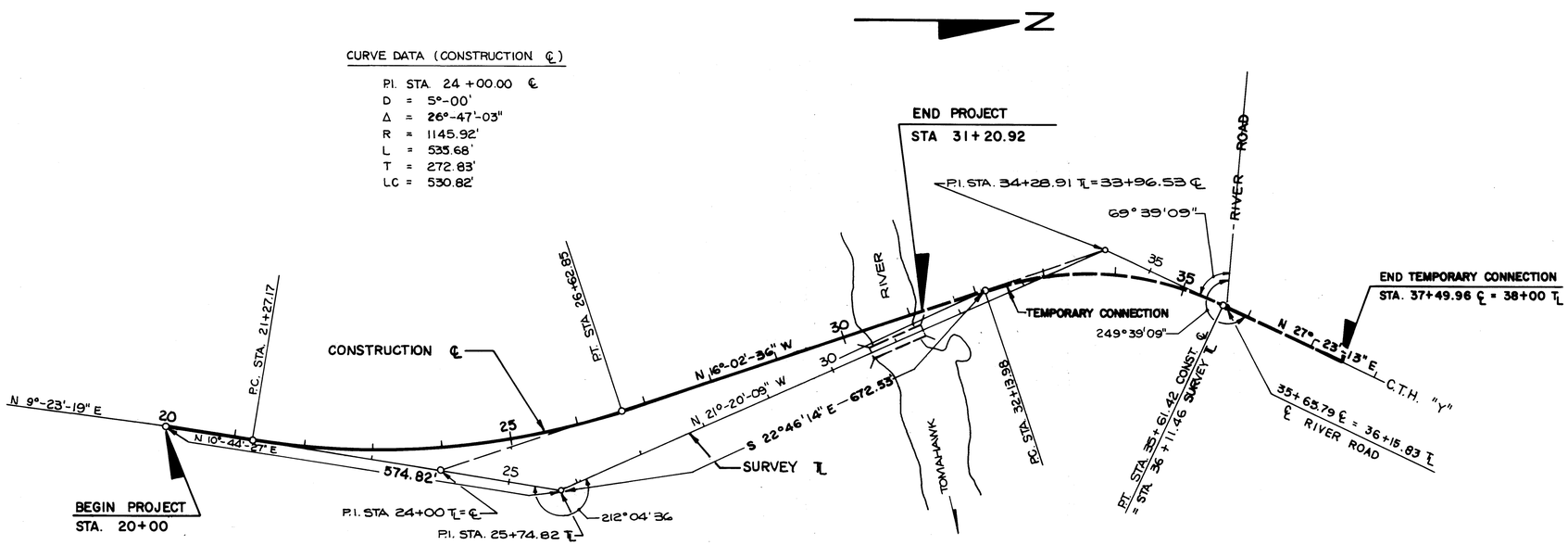
EXCAVATION BELOW SUBGRADE (E.B.S.) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS UNCLASSIFIED EXCAVATION. THE LOCATION FOR E.B.S. WILL BE DETERMINED BY THE ENGINEER.
WHEN THE QUANTITY OF THE ITEMS OF BASE OR SURFACE COURSE IS MEASURED FOR PAYMENT 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 MATERIALS AS DIRECTED BY THE ENGINEER.
THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
THE EXACT LOCATION OF ALL DRIVEWAY AND ACCESS POINTS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
THE EXACT LOCATION OF THE EROSION BALES TO BE DETERMINED BY THE ENGINEER.
THE WISCONSIN DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR A BRASS MONUMENT WHICH SHALL BE SET IN THE STRUCTURE AS DESIGNATED BY THE ENGINEER.

STANDARD ABBREVIATIONS

BIT	=	BITUMINOUS
BM	=	BENCH MARK
CL	=	CENTERLINE
CONST	=	CONSTRUCTION
CP	=	CULVERT PIPE
CY	=	CUBIC YARD
D	=	DEGREE OF CURVE
DIA	=	DIAMETER
EL	=	ELEVATION
FE	=	FIELD ENTRANCE
FT	=	FEET (FOOT)
H	=	HOUSE
HOR	=	HORIZONTAL
IN	=	INCHES
L	=	LENGTH OF CURVE
LF	=	LINEAR FEET
LT	=	LEFT
MAX	=	MAXIMUM
MIN	=	MINIMUM
NC	=	NORMAL CROWN
NOR	=	NORMAL
PAVT	=	PAVEMENT
PC	=	POINT OF CURVATURE
PE	=	PRIVATE ENTRANCE
PI	=	POINT OF INTERSECTION
PL	=	PROPERTY LINE
POT	=	POINT ON TANGENT
PT	=	POINT OF TANGENCY
R	=	RADIUS
REQD	=	REQUIRED
RO	=	RUNOFF
RT	=	RIGHT
R/W	=	RIGHT-OF-WAY
SE	=	SUPERELEVATION
STA	=	STATION
SY	=	SQUARE YARD
TL	=	TRANSIT LINE
TYP	=	TYPICAL
UNCL	=	UNCLASSIFIED
USGS	=	UNITED STATES GEOLOGICAL SURVEY
VAR	=	VARIABLE
VC	=	VERTICAL CURVE
VERT	=	VERTICAL

STATE PROJECT NUMBER	SHEET NO.
9465-01-70	21

ALIGNMENT LAYOUT



CURVE DATA (CONSTRUCTION ℄)

PI. STA. 24+00.00 ℄
D = 5°-00'
Δ = 26°-47'-03"
R = 1145.92'
L = 535.68'
T = 272.83'
LC = 530.82'

CURVE DATA (CONSTRUCTION ℄)

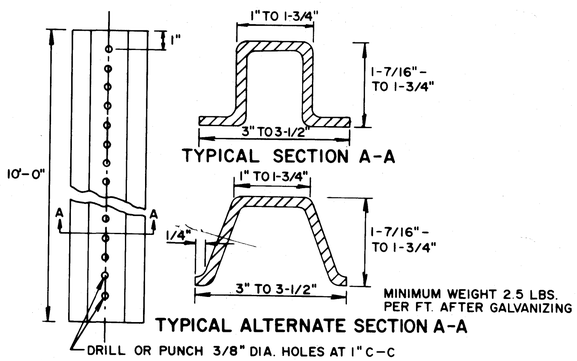
PI. STA 33+96.53 ℄
= STA 34+28.91 ℄
D = 12°-30'
Δ = 43°-25'-49"
R = 458.37'
L = 347.44'
T = 182.55'
LC = 339.18'

SCALE = 1" = 100'

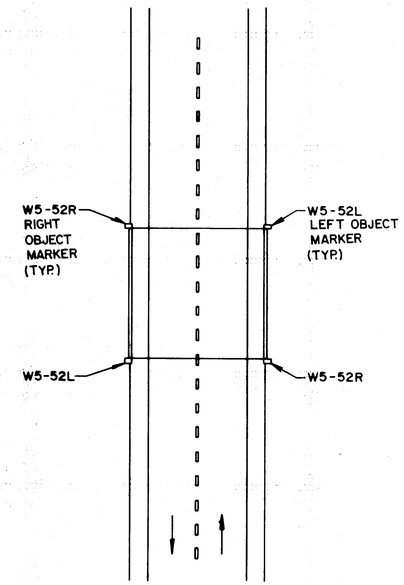
DA. 10465.000 Cat. No. 2130 — D142

STATE PROJECT NUMBER	SHEET NO.
9465-1-70	22

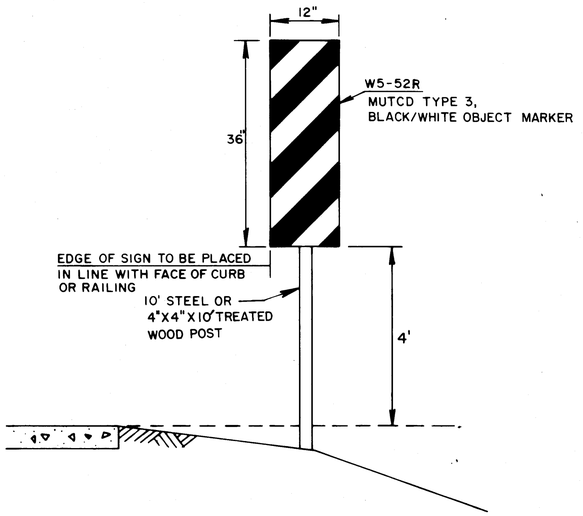
DETAILS FOR
BRIDGE CLEARANCE MARKERS



10' STEEL POSTS



LOCATION OF BRIDGE
CLEARANCE MARKERS



WARNING SIGN PLACEMENT

Cat No.

STATE PROJECT NUMBER	SHEET NO
9465-1-70	3A
MISCELLANEOUS QUANTITIES	

SUMMARY OF MISCELLANEOUS QUANTITIES

EARTHWORK SUMMARY

STATION	UNCL. CY	FILL C.Y.	WASTE CY	BORROW CY
20+00-30+87	6987	2473	3896	–
30+92-37+49.96	1483	2572	–	1732
	8470	5045	3896	1732

SHRINKAGE = 25%
BORROW = FILL (SHRINKAGE) - UNCL. = 2572(1.25) - 1483 = 1732
WASTE = UNCL. - FILL (SHRINKAGE) = 6987 - 2473(1.25) = 3896

CLEARING & GRUBBING

STATION	CLEARING STA.	GRUBBING STA.
23+00-30+00	7.0	7.0
31+00-32+00	1.0	1.0
	8.0	8.0

MARKER POSTS FOR RIGHT OF WAY

STATION	LOCATION	EACH
20+00	33' LT.	1
21+27.17	45' LT.	1
26+62.85	45' LT.	1
30+00	45' LT.	1
31+20	50' LT.	1
32+13.98	40' LT.	1
35+22.75	40' LT.	1
35+88.75	33' LT.	1
		8

CRUSHED AGGREGATE BASE COURSE

STATION	BASE CY	SHOULDERS C.Y.
20+00-30+15	1056	105
31+20-37+49.96	657	63
		168
P.E.'s 20+93 RT.	10	
22+11 RT.	10	SIDE ROAD
23+01 RT.	13	70
23+40 RT.	10	
24+20 RT.	16	
25+58 LT.	15	
26+50 RT.	24	
27+80 RT.	24	
	1835 + 70 + 168 = 2073	

EROSION BALES

STATION	LOCATION	EACH
30+15	LT. & RT.	20
31+25	LT. & RT.	20
		40

SINGLE AGGREGATE BITUMINOUS MIX

STATION	TONS
20+00 - 30+15	358
31+20 - 37+49.96	225
	583

SALVAGED TOPSOIL, MULCHING, SEEDING AND FERTILIZER

STATION	SALVAGED TOPSOIL SQ. YD.	MULCHING SQ. YD.	SEEDING LBS.	FERTILIZER CWT.
20+00-30+15	5550	6339	114	4.0
31+20-37+49.96	1575	2066	38	1.3
	7125	8405	152	5.3

MINOR SIDEROAD, PRIVATE ENTRANCE, AND SLOPE DRAIN PIPES

STATION	LOCATION	DIA. (IN)	LENGTH (L.F.)	TYPE	RCCP (CLASS)	THICKNESS (INCHES) STEEL	THICKNESS (INCHES) ALUMINUM	APRON ENDWALLS
20+93	30' RT.	18	30'	C.P.	III	0.064	0.060	2
22+11	30' RT.	18	30'	C.P.	III	0.064	0.060	2
23+01	30' RT.	18	30'	C.P.	III	"	"	2
23+40	30' RT.	18	30'	C.P.	III	"	"	2
24+20	30' RT.	18	30'	C.P.	III	"	"	2
25+58	30' LT.	18	30'	C.P.	III	"	"	2
26+50	36' RT.	18	36'	C.P.	III	"	"	2
27+80	36' RT.	18	36'	C.P.	III	0.064	0.060	2
35+65.79	30' LT.	18	40'	C.P.	III	0.064	0.060	2
			292'					18

STEEL PLATE BEAM GUARD, CLASS A

STATION	L.F.	ANCHORAGES
28+84.61-30+13.61	129	1
28+87.39-30+16.39	129	1
31+18.61-32+47.61	79	1
31+21.39-32+50.39	79	1
	416	4

D.A. 10465

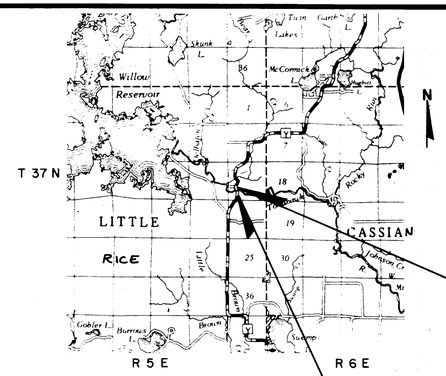
REVISION DATE	R/W PROJECT NUMBER 9465-01-00	SHEET NUMBER
	FEDERAL PROJECT NUMBER	

PLAT OF RIGHT OF WAY REQUIRED FOR

TOMAHAWK RIVER BRIDGE & APPROACHES ----- C.T.H. "Y" ONEIDA COUNTY

SCALE 0 100 200 Ft. DATE 6-4-81

CONSTRUCTION PROJECT NUMBER 9465-P-70 4



LOCATION MAP

SCALE 0 1 2 MILES

TOTAL NET LENGTH OF C.L. = 0.331 MI.

BEGIN RELOCATION ORDER, PROJECT NO. 9465-01-00

STATION 20+00.00

N 190,900 ± 200'

E 2,048,300 ± 200'

482.41' NORTH & 1,303.44' WEST OF THE SOUTH 1/4 CORNER OF SECTION 13, T. 37 N., R. 5 E.

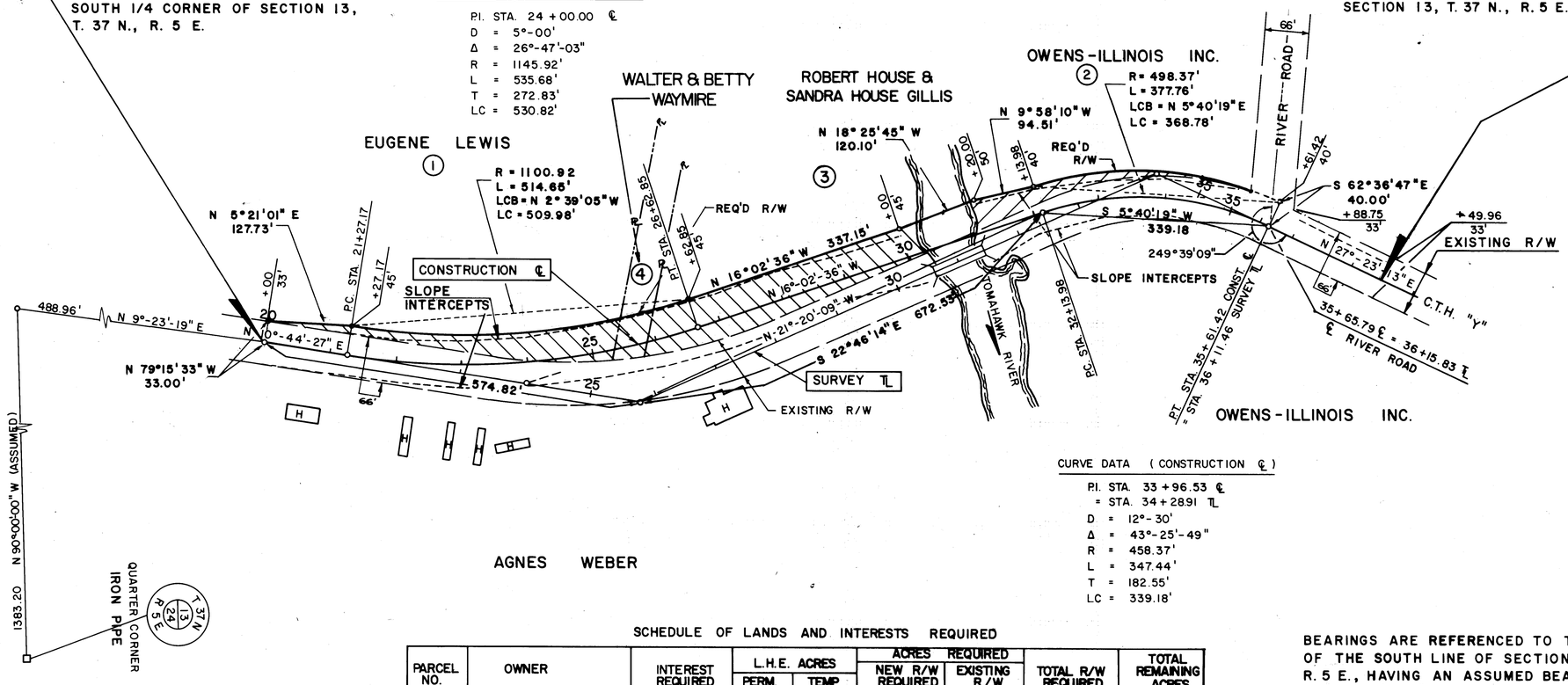
END RELOCATION ORDER, PROJECT NO. 9465-01-00

STATION 37+49.96

N 192,600 ± 200'

E 2,048,300 ± 200'

2,172.21' NORTH & 1,336.36' WEST OF THE SOUTH 1/4 CORNER OF SECTION 13, T. 37 N., R. 5 E.



CURVE DATA (CONSTRUCTION ℄)

P.I. STA. 24 + 00.00 ℄
D = 5°-00'
Δ = 26°-47'-03"
R = 1145.92'
L = 535.68'
T = 272.83'
LC = 530.82'

CURVE DATA (CONSTRUCTION ℄)

P.I. STA. 33 + 96.53 ℄
= STA. 34 + 28.91 ℄
D = 12°-30'
Δ = 43°-25'-49"
R = 458.37'
L = 347.44'
T = 182.55'
LC = 339.18'

SCHEDULE OF LANDS AND INTERESTS REQUIRED

PARCEL NO.	OWNER	INTEREST REQUIRED	L.H.E. ACRES PERM.	L.H.E. ACRES TEMP.	ACRES REQUIRED NEW R/W REQUIRED	ACRES REQUIRED EXISTING R/W	TOTAL R/W REQUIRED	TOTAL REMAINING ACRES
1	EUGENE LEWIS	FEE	–	–	0.26	1.43	1.69	21.74
2	OWENS-ILLINOIS INC.	FEE	–	–	0.2	2.3	2.5	200±
3	R. HOUSE & S. HOUSE GILLIS	FEE	–	–	0.67	–	0.67	1.91
4	W. & B. WAYMIRE	FEE	–	–	0.07	0.0	0.07	2.28

BEARINGS ARE REFERENCED TO THE WEST 1/2 OF THE SOUTH LINE OF SECTION 13, T. 37 N., R. 5 E., HAVING AN ASSUMED BEARING OF N 90°-00'-00" W

ALL COORDINATES ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COORDINATE SYSTEM, NORTH ZONE.

APPROVED FOR ONEIDA COUNTY BY

9/16/81 John Kunach
DATE OFFICIAL

PLAT PREPARED BY

DONOHUE & ASSOCIATES, INC.
CONSULTING ENGINEERS
MADISON, WISCONSIN

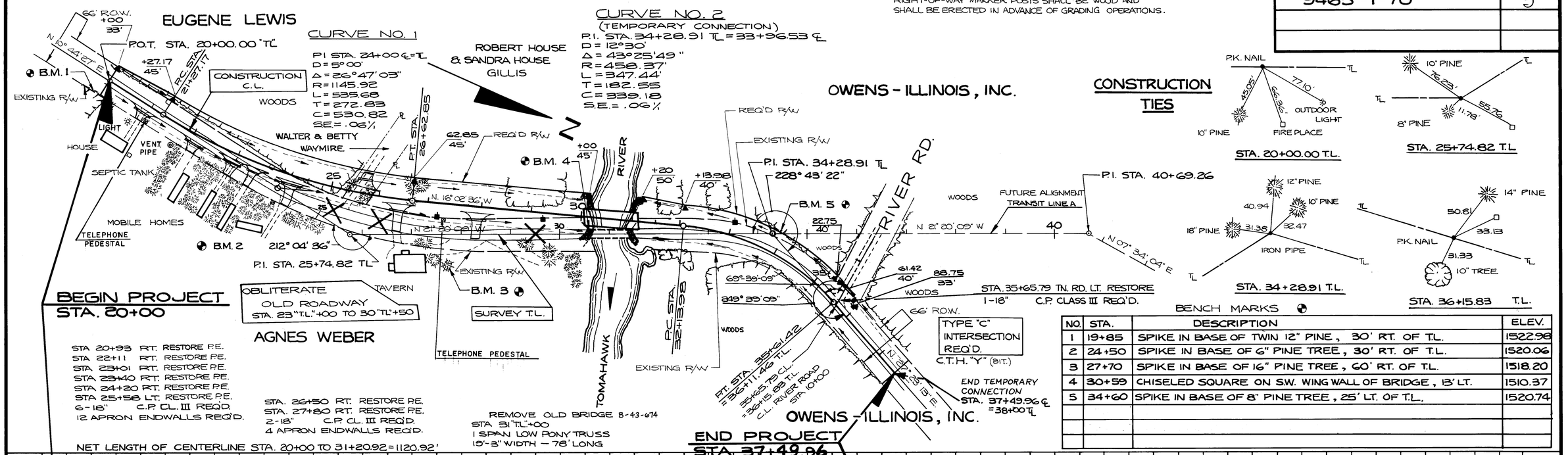
WISCONSIN JAMES R. LUCHT E-12787 MADISON WIS. PROFESSIONAL ENGINEER

James R. Lucht 10/9/81

D.A. 10465.000 Cat. No. 2130 – D175

STATE PROJECT NUMBER	SHEET NO.
9465 -1-70	5

RIGHT-OF-WAY MARKER POSTS SHALL BE WOOD AND SHALL BE ERECTED IN ADVANCE OF GRADING OPERATIONS.



BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
1	19+85	SPIKE IN BASE OF TWIN 12" PINE, 30' RT. OF T.L.	1522.98
2	24+50	SPIKE IN BASE OF 6" PINE TREE, 30' RT. OF T.L.	1520.06
3	27+70	SPIKE IN BASE OF 16" PINE TREE, 60' RT. OF T.L.	1518.20
4	30+59	CHISELED SQUARE ON S.W. WING WALL OF BRIDGE, 13' LT.	1510.37
5	34+60	SPIKE IN BASE OF 8" PINE TREE, 25' LT. OF T.L.	1520.74

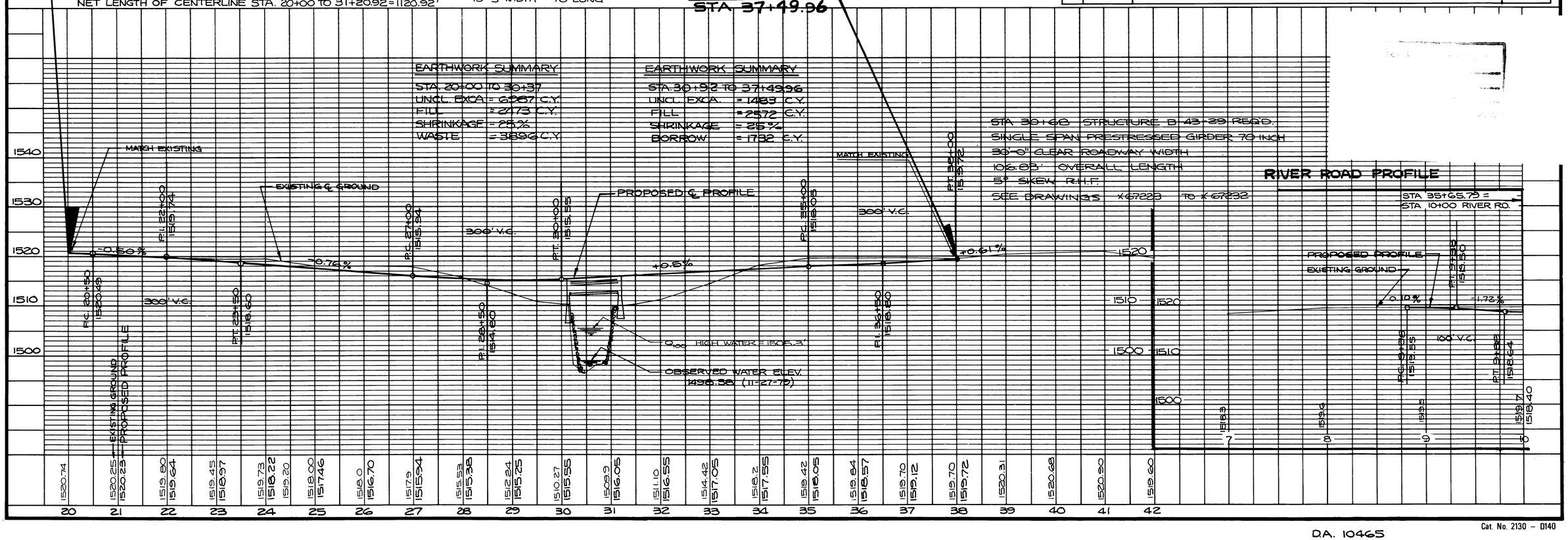
EARTHWORK SUMMARY

STA. 20+00 TO 30+37
UNCL. EXCA. = 6287 C.Y.
FILL = 2473 C.Y.
SHRINKAGE = 25%
WASTE = 3896 C.Y.

EARTHWORK SUMMARY

STA. 30+92 TO 37+49.96
UNCL. EXCA. = 1483 C.Y.
FILL = 2572 C.Y.
SHRINKAGE = 25%
BORROW = 1732 C.Y.

STA 30+68 STRUCTURE B-43-29 REQ'D.
SINGLE SPAN PRESTRESSED GIRDER 70 INCH
30'-0" CLEAR ROADWAY WIDTH
106.03' OVERALL LENGTH
5° SKEW R.H.F.
SEE DRAWINGS X-67223 TO X-67232



D.A. 10465

Cat. No. 2130 – D140