AS - BUILT PLAN

OUTAGAMIE COUNTY

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TOTAL SHEETS = 137

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
4984-00-83	STP 1201(15)	1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

NORTHLAND AVENUE, CITY OF APPLETON

(BALLARD ROAD TO TRI-COUNTY FREEWAY)

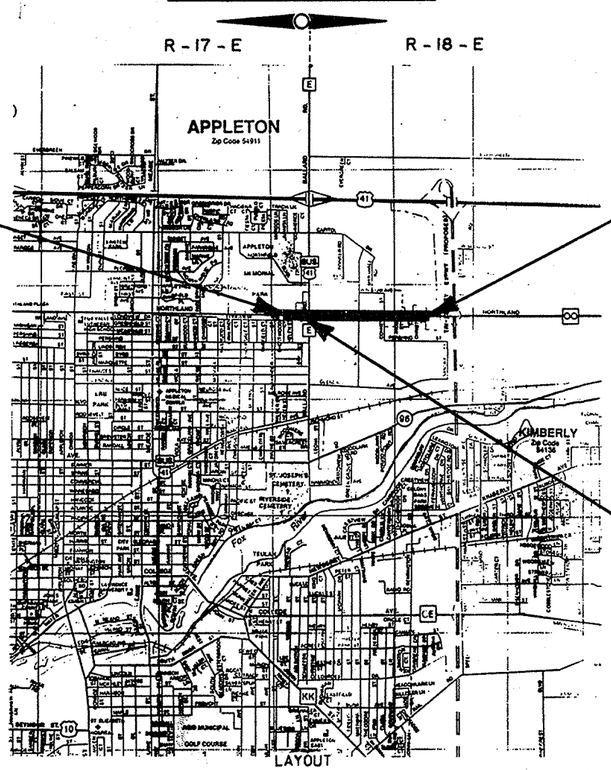
C.T.H. "OO"
OUTAGAMIE COUNTY

AS BUILT PLAN
NO.
SUPERVISOR AGRIS ROZITIS
RESIDENT BRIAN HIGGINBOTHAM
CONTRACTOR VINTON CONST. CO.
COMPLETED 10-15-93

00-14



STATE PROJECT NUMBER
4984 - 00 - 83



TOTAL NET LENGTH OF CENTERLINE = 0.919 MI.

DESIGN DESIGNATION

A.D.T.	(1993)	=	14,690
A.D.T.	(2013)	=	28,024
D.H.V.	(2013)	=	2,886
D.		=	50-50
T.		=	5% OF A.D.T.
V.	(MPH)	=	45
ESALS		=	511

CONVENTIONAL SIGNS

COUNTY LINE		COMBUSTIBLE FLUIDS (UNDER PRESSURE)	CAUTION
CORPORATE LIMITS		UNDERGROUND UTILITIES	
PROPERTY LINE		GAS	G
LOT LINE		ELECTRIC	E
LIMITED EASEMENT		TELEPHONE	T
EXISTING RIGHT OF WAY		SERVICE PEDESTAL	
NEW RIGHT OF WAY		CABLE MARKER	
REFERENCE LINE		POWER POLE	
SLOPE INTERCEPT		TELEPHONE POLE	
ORIGINAL GROUND		RAILROADS	
MARSH OR ROCK PROFILE		MARSH	
CULVERT IN PLACE		WOODED AREA	
CULVERT REQUIRED			
CULVERT REQUIRED (Profile)			

APPROVED FOR
OUTAGAMIE COUNTY
2/6/92 DATE — Michael A. Marsh COMMISSIONER

ORIGINAL PLANS PREPARED BY
McMAHON ASSOCIATES INC.

WISCONSIN — MICHAEL ROBERT SIMON E-35960 MENASHA WIS — PROFESSIONAL ENGINEER

2/6/92 DATE — Michael R. Simon SIGNATURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Surveyor McMAHON District Checker CAK
Designer McMAHON C.O. Plans Engineer NRA
District Supervisor JCL C.O. Coordinator DLL

APPROVED FOR DISTRICT OFFICE
DATE: 10-9-92 James Lamma (Signature)

AUTHORIZED FOR CENTRAL OFFICE DESIGN
DATE: 10/30/92 Harold C. Amundson (Signature)

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

APPROVED:
DATE:

00-14

4984-00-83

00-14

WISDOT/VEHICLE NO. 10
00-14

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.0

GENERAL NOTES, STANDARD ABBREVIATIONS AND SYMBOLS, SDD NUMBERS & UTILITIES

STANDARD ABBREVIATIONS AND SYMBOLS

∠	ANGLE
AGG.	AGGREGATE
AH	AHEAD
ASPH	ASPHALT
AVE.	AVENUE
BK	BACK
⊕	BENCH MARK
BIT.	BITUMINOUS
B.O.W.	BACK OF WALK
C.E.	COMMERCIAL ENTRANCE
C.A.B.C.	CRUSHED AGGREGATE BASE COURSE
℄ or CL	CENTERLINE
CONC.	CONCRETE
C.M.C.P.	CORRUGATED METAL CULVERT PIPE
C.T.H.	COUNTY TRUNK HIGHWAY
CL.	CLASS
CT.	COURT
CU.YD.	CUBIC YARD
△	DELTA
D.	DEGREE OF CURVE
D.G.	DITCH GRADE
E.	EAST
E	EXTERNAL DISTANCE
ELEV	ELEVATION
EXIST.	EXISTING
EXP.	EXPANSION
F.F.	FACE TO FACE
FL	FLOWLINE
' / '	FOOT PER FOOT
GV	GAS VALVE
H	HOUSE
HYD.	FIRE HYDRANT
INL.	INLET
INV.	INVERT
JT.	JOINT
L.	LENGTH OF CURVE
L.H.F.	LEFT HAND FORWARD
L.S.	LUMP SUM
LA.	LANE
LIN. FT.	LINEAL FEET
L.V.C.	LENGTH OF VERTICAL CURVE
LT.	LEFT
MH	MANHOLE
DW	DON'T WALK
FDW	FLASHING DON'T WALK
R	RED PHASE
Y	YELLOW PHASE
G	GREEN PHASE
FR	FLASHING RED
FY	FLASHING YELLOW

MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
NC	NORMAL CROWN
NO.	NUMBER
NOR.	NORMAL
P.E.	PRIVATE ENTRANCE
P.C.	POINT OF CURVATURE
P.I.	POINT OF INTERSECTION
P.O.L.	POINT ON LINE
P.T.	POINT OF TANGENCY
P.V.C.	POINT OF VERTICAL CURVATURE
P.V.I.	POINT OF VERTICAL INTERSECTION
P.V.T.	POINT OF VERTICAL TANGENCY
P/L	PROPERTY LINE
PVT.	PAVEMENT
PED.	PEDESTAL
PVC. C.P.	PVC. CULVERT PIPE
R	RADIUS
R.C.C.P.	REINFORCED CONCRETE CULVERT PIPE
REQ'D.	REQUIRED
R.H.F.	RIGHT HAND FORWARD
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RD.	ROAD
RDWY	ROADWAY
RT.	RIGHT
S	SLOPE
S.	SOUTH
S.D.D.	STANDARD DETAIL DRAWING
SE	SUPERELEVATION RATE
ST.	STREET
STA.	STATION
S.T.H.	STATE TRUNK HIGHWAY
SQ. FT.	SQUARE FEET
SQ. YD.	SQUARE YARD
STA.	STATION
S.W.	SIDEWALK
T	TANGENT LENGTH OF CURVE
TRANS-PAD	TRANSFORMER PAD
T/L	TRANSIT LINE
TYP.	TYPICAL
V.C.	VERTICAL CURVE
W	WALK
WV	WATER VALVE/SHUTOFF

⊕	HYDRANT W/AUXILIARY VALVE
●—☒	LIGHT POLE

UTILITIES

WISCONSIN NATURAL GAS COMPANY (414) 735-1246
J.G. HERB
800 S. LYNNDALE DR.
P.O. BOX 907
APPLETON, WI 54914

WISCONSIN ELECTRIC POWER COMPANY (414) 735-0705
MR. DENNIS AERTS, SR.
800 S. LYNNDALE
APPLETON, WI 54914

WISCONSIN BELL, INC.
MR. RICK VAN BEEK
4 EAST OSPE
221 WEST WASHINGTON
P.O. BOX 2159 (TOLL FREE)
APPLETON, WI 54913 1-800-242-2511
CABLE LOCATE

CABLEVISION OF THE FOX CITIES (414) 749-1320
MR. JAY HORN
1620 S. LAWE
APPLETON, WI 54915

OUTAGAMIE CO. HIGHWAY COMMISSIONER (414) 832-5673
MICHAEL A. MARSDEN
1313 HOLLAND RD.
APPLETON, WI 54915

THE CITY OF APPLETON (414) 832-6474
DEPT. OF PUBLIC WORKS
T. L. HARP, CITY ENGINEER
PAULA SCHAEFFER, CITY TRAFFIC & PARKING ENGINEER
200 N. APPLETON ST.
APPLETON, WI 54911

TOWN OF GRAND CHUTE (414) 832-1573
MARK HELLING, STREET SUPERINTENDANT
502 W. NORTHLAND AVE.
APPLETON, WI 54911

APPLETON WATER DEPARTMENT (414) 832-5945
LARRY WETTERING
59 WEIMAR COURT
APPLETON, WI 54915

OUTAGAMIE CO. ZONING ADMINISTRATOR (414) 832-5255
FRANK CHARLESWORTH
410 S. WALNUT ST.
APPLETON, WI 54911

STANDARD DETAIL DRAWINGS

INLET COVERS	8A5-8a,8A5-8b
MANHOLES, TYPES 1	8B6-3
MANHOLES, TYPES 2 AND 3	8B7-3
INLETS, TYPES 1, 2 AND 3	8C1-4
INLETS, TYPES 8-11	8C5-1
CONCRETE CURB, CONCRETE CURB & GUTTER AND PAVEMENT TIES	8D1-11
CURB RAMPS	8D5-8
SILT FENCE	8E9-3
APRON ENDWALLS FOR CULVERT PIPE	8F1-10a
JOINT TIES FOR CONCRETE PIPE	8F4-5
CONDUIT	9B2-5
CONCRETE BASES	9B3-6
CAST BASES	9B6-3
CONCRETE CONTROL CABINET BASES	9B9-3
POLE MOUNTINGS FOR TRAFFIC SIGNALS, TYPE 2	9B11-2a
HARDWARE DETAILS FOR POLE MOUNTINGS	9B11-2e
PULL BOX	9B10-3
NAME PLATE	12A3-4
BARRICADES AND TRAFFIC CONTROL FOR ROAD CLOSURES	15C2-2
PAVEMENT MARKING SYMBOLS	15C7-1
PAVEMENT MARKING	15C8-4a
LANDMARK REFERENCE MONUMENTS AND COVERS	16A1-5

GENERAL NOTES (CONTINUED)

5½" ASPH. CONC. PAV'T., TYPE MV TO BE CONSTRUCTED WITH A 1½" SURFACE COURSE & TWO 2" BINDER COURSES.

3½" ASPH. CONC. PAV'T., TYPE MV SHOULDERS AND 3" ASPH. CONC. PAV'T., TYPE MV MEDIAN MAY BE PAVED IN ONE LAYER OF SURFACE COURSE.

GENERAL NOTES

CURB AND GUTTER RADII ARE SHOWN TO THE FACE OF CURB.

WHEN THE QUANTITY OF CRUSHED AGGREGATE BASE COURSE AND SINGLE AGGREGATE ASPHALT, TYPE "D1" IS MEASURED FOR PAYMENT BY THE TON, THE THICKNESS AS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND UPON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

CURVE DATA SHOWN ON THE PLAN IS "ARC DEFINITION".

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY FACILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

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

THE ELEVATIONS SHOWN ON THE ROADWAY CROSS SECTIONS ARE TOP OF SUBGRADE ELEVATIONS AT THE CONSTRUCTION REFERENCE LINE OF THE ROADWAY.

IF EXCAVATION BELOW SUBGRADE IS REQUIRED, IT WILL BE MEASURED AND PAID FOR AS UNCLASSIFIED EXCAVATION. THE LIMITS OF E.B.S. WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE MAXIMUM SLOPE ON DRIVEWAY APRONS BETWEEN THE SIDEWALK AND BACK OF CURB SHALL BE 4%. THE MAXIMUM SLOPE ON ALL OTHER DRIVEWAYS SHALL BE 10%.

THE REMOVAL OF PIPE CULVERTS LOCATED OUTSIDE (BENEATH OR BEYOND) THE NORMAL GRADING LIMITS WHICH ARE NOT REPLACED BY AN EQUIVALENT OR LARGER PIPE AT THE SAME LOCATION, WILL BE MEASURED AND PAID FOR AS "REMOVING OLD CULVERTS". THE REMOVAL OF ALL OTHER PIPE CULVERTS WILL BE CONSIDERED AS PART OF "UNCLASSIFIED EXCAVATION".

TRANSVERSE CONTRACTION JOINTS SHALL BE SKEWED EXCEPT THROUGH INTERSECTIONS.

TRANSVERSE AND LONGITUDINAL CONTRACTION JOINTS SHALL BE SEALED WITH HOT-POURED ELASTIC SEALANT.

ALL DISTURBED AREAS WITHIN THE RIGHT OF WAY, AND THE AREAS BETWEEN THE BACK OF CURB, SHALL BE FERTILIZED, SEEDED AND MULCHED.

ALL COORDINATES SHOWN ON THIS PLAN ARE GRID COORDINATES REFERENCED THE THE WISCONSIN COORDINATE SYSTEM, SOUTH ZONE.

ALL DISTANCES AND STATIONING SHOWN ON THIS PLAN ARE GROUND VALUES. GRID VALUES ARE OBTAINED BY MULTIPLYING GROUND VALUES BY 0.99996415.

THE CONTROL SURVEY FOR THIS PROJECT WAS CONDUCTED UNDER AND MET SPECIFICATIONS FOR THE THIRD ORDER CONTROL SURVEYS.

FILL AS SHOWN ON THE PLAN PERTAINS TO EMBANKMENT CONSTRUCTED FROM BORROW EXCAVATION, AND UNCLASSIFIED EXCAVATION. THE ALLOWANCE USED FOR EXPANDING THE FILLS TO COMPUTE THE VOLUME OF MATERIAL IS 30%. ALL FILL VOLUMES SHOWN ARE ACTUAL VOLUMES.

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

REINFORCED CONCRETE APRON ENDWALLS AND ADJOINING TWO SECTIONS OF CONCRETE PIPE SHALL BE TIED TOGETHER AS SHOWN ON THE STANDARD DETAIL DRAWINGS AND AS LOCATED IN THE MISCELLANEOUS QUANTITIES. JOINT TIES SHALL BE INCIDENTAL TO VARIOUS ITEMS.

THE QUANTITY OF TOPSOIL WAS COMPUTED FROM MEASUREMENTS BETWEEN THE BACK OF CURB AND THE SLOPE INTERCEPTS AS SHOWN ON THE CROSS SECTIONS PLUS 5 FEET PER STATION FOR ROUNDING.

ALL SILT FENCE DELIVERED SHALL MEET THE REQUIREMENTS FOR SILTY SOILS.

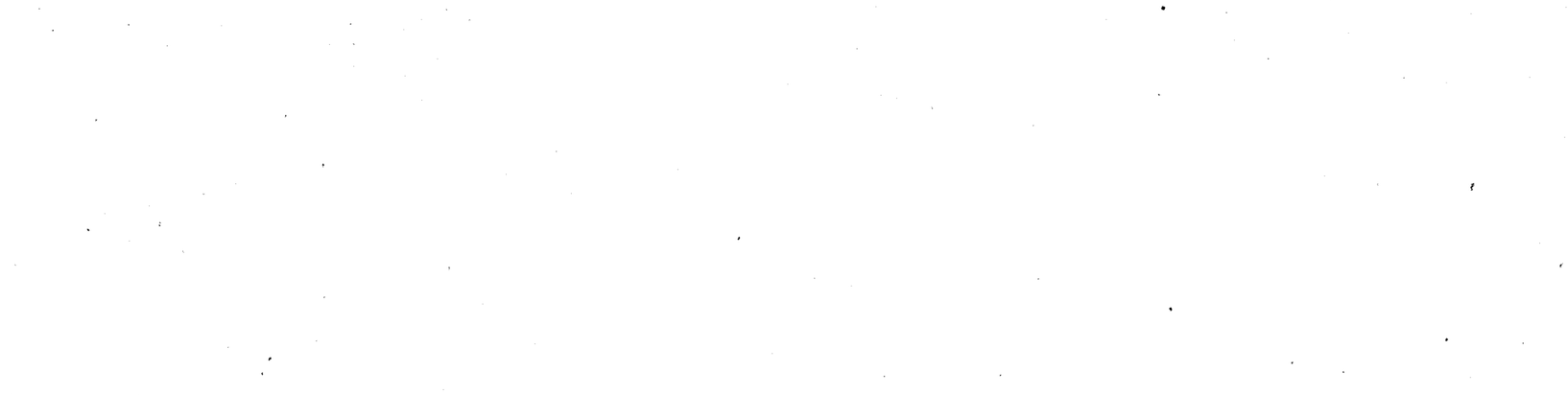
THE EXACT LOCATIONS AND LIMITS OF PRIVATE ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

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

THE CONCRETE PAVEMENT FOR THIS PROJECT SHALL NOT BE TINED.

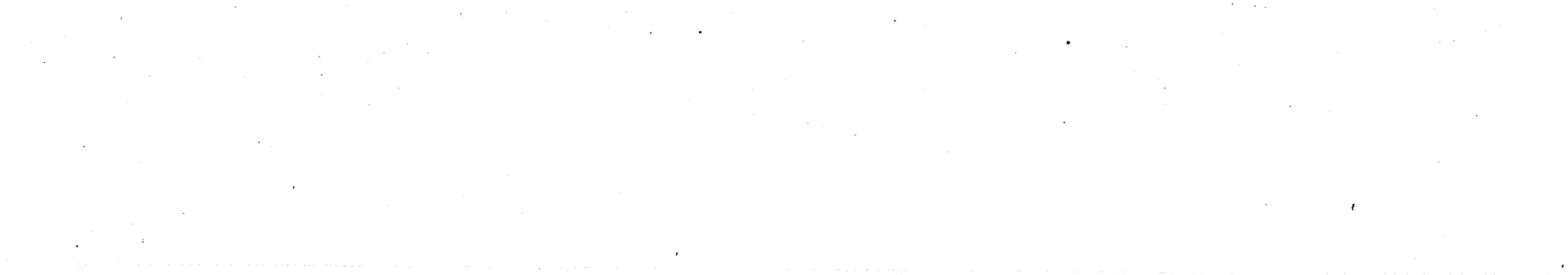
STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.1

TYPICAL SECTIONS FOR C.T.H. "00" OUTAGAMIE CO.



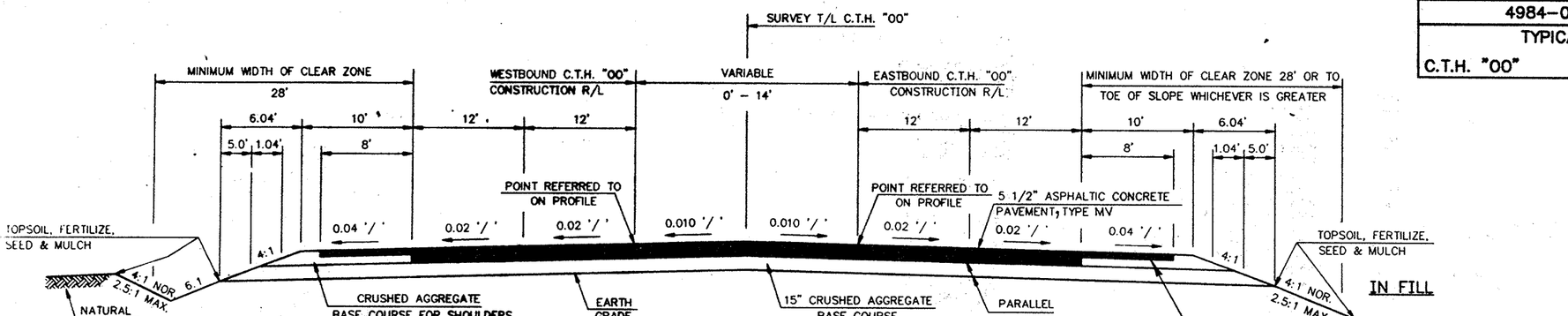
TYPICAL FINISHED CROSS SECTION FOR C.T.H. "00"

635+50 - 637+00



TYPICAL FINISHED CROSS SECTION FOR C.T.H. "00"

641+73.45 - 677+57

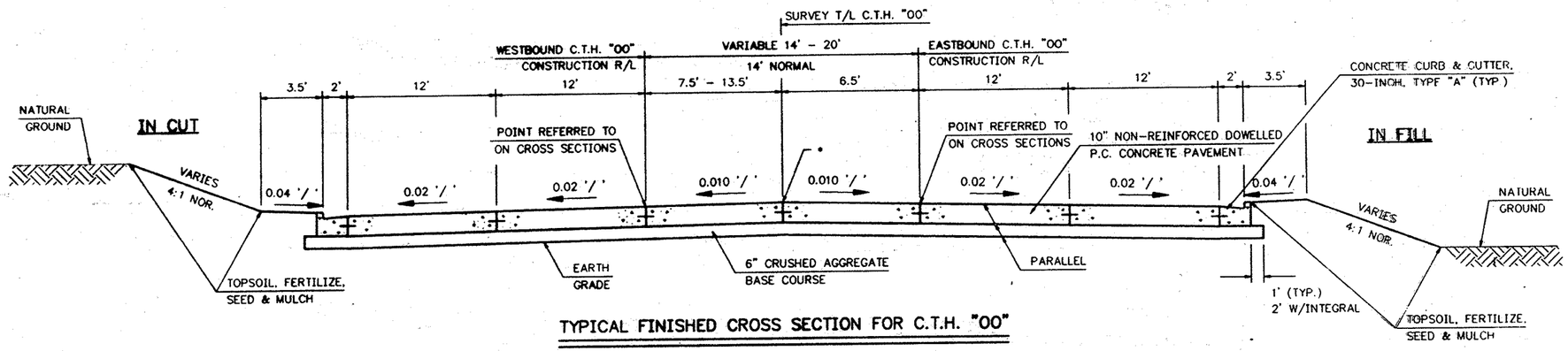


TYPICAL FINISHED CROSS SECTION FOR C.T.H. "00"

677+57 - 684+00

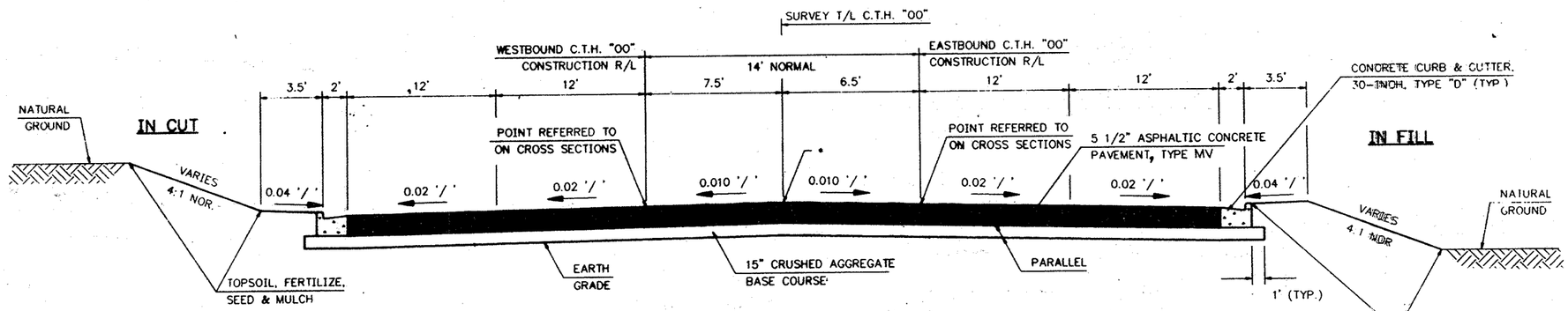
STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.2

TYPICAL SECTIONS FOR C.T.H. "00" OUTAGAMIE CO.



TYPICAL FINISHED CROSS SECTION FOR C.T.H. "00"

639+73.45 - 641+73.45



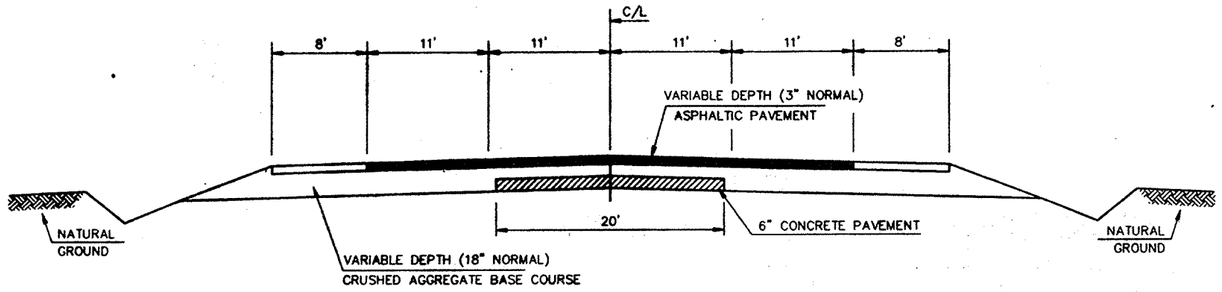
TYPICAL FINISHED CROSS SECTION FOR C.T.H. "00"

637+00 - 639+73.45

• OPTIONAL CONSTRUCTION JOINT

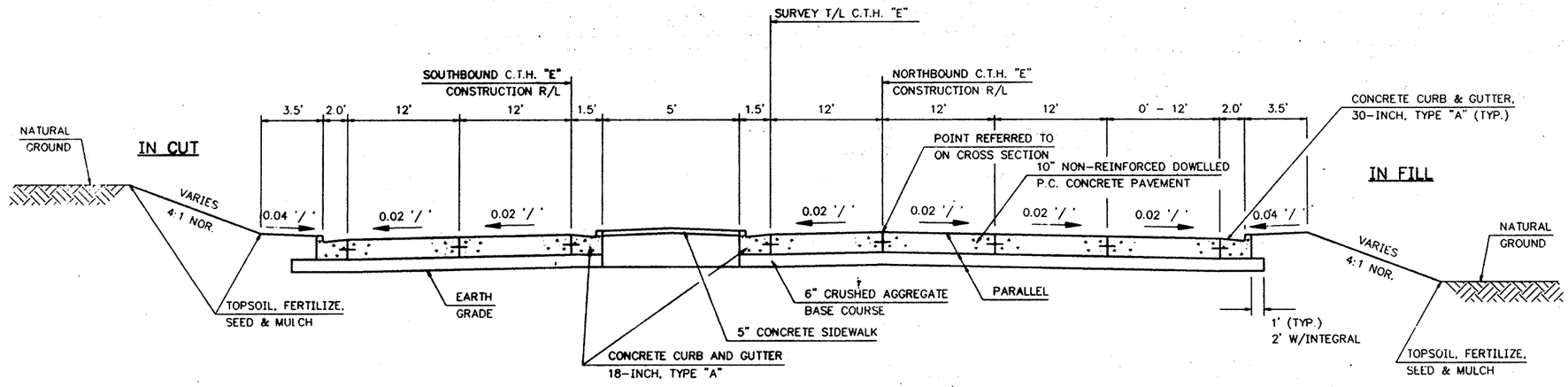
STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.3

TYPICAL SECTIONS
C.T.H. "E" FOR OUTAGAMIE CO.



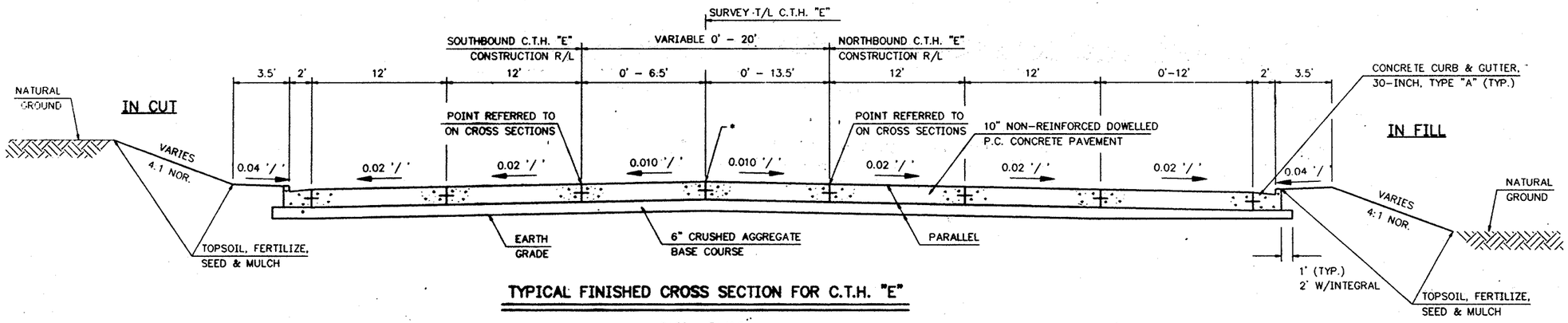
TYPICAL EXISTING CROSS SECTION

635+50 – 684+00 (C.T.H. "00")



TYPICAL FINISHED CROSS SECTION FOR C.T.H. "E"

7+41.83 – 12+54.52



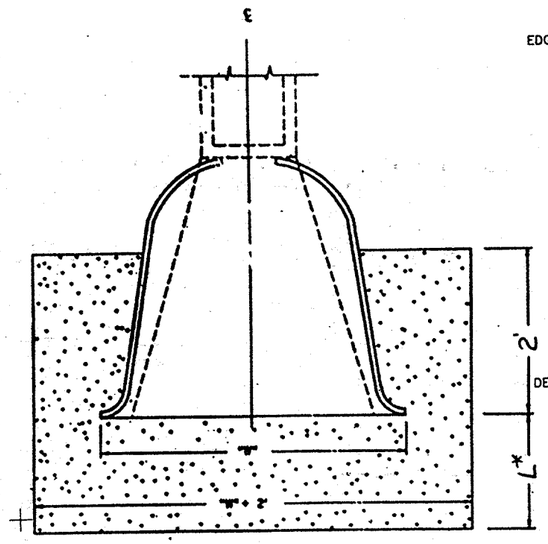
TYPICAL FINISHED CROSS SECTION FOR C.T.H. "E"

2+80 – 7+41.83
12+54.52 – 15+25

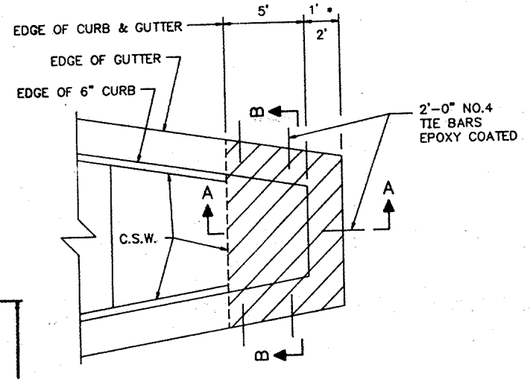
* OPTIONAL CONSTRUCTION JOINT

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.4

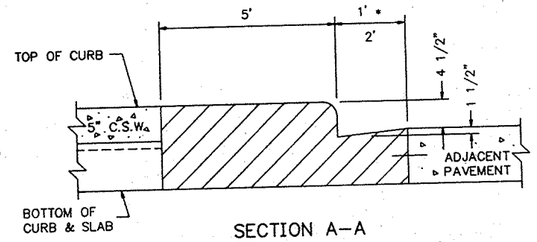
CONSTRUCTION DETAILS
FOR
C.T.H. "00" OUTAGAMIE CO.



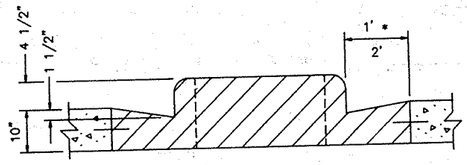
SOD AT PIPE END



DESIGN NOTE: CONCRETE ISLAND NOSE (TO BE PAID FOR AS CONCRETE PAVEMENT.)



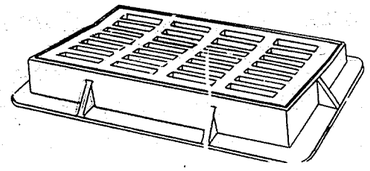
SECTION A-A

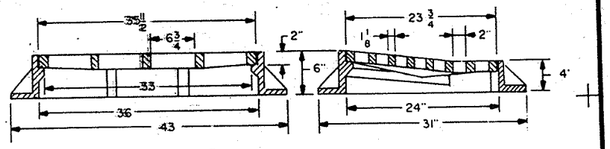


SECTION B-B

* AT 18-INCH CURB & GUTTER LOCATIONS

CONCRETE MEDIAN SQUARE NOSE DETAIL FOR 30-INCH CURB & GUTTER



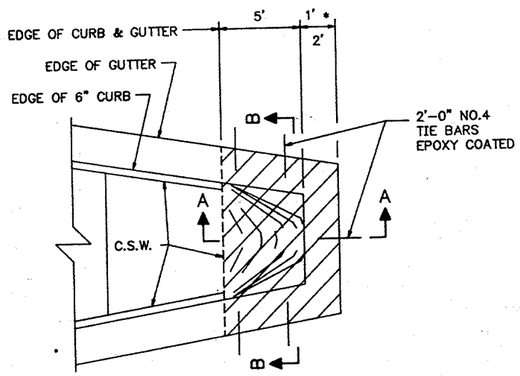


INLET COVER, SPECIAL

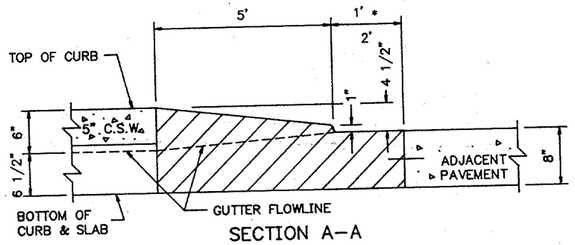
TOTAL WEIGHT 420 POUNDS

NOTE:

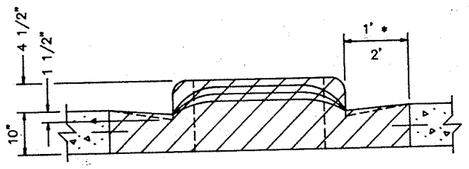
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



DESIGN NOTE: CONCRETE ISLAND NOSE (TO BE PAID FOR AS CONCRETE PAVEMENT.)



SECTION A-A



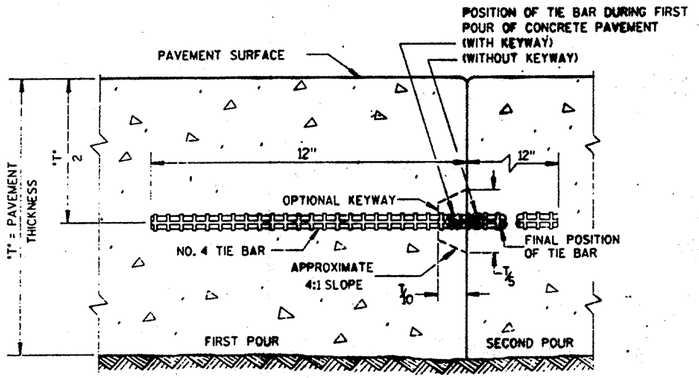
SECTION B-B

* AT 18-INCH CURB & GUTTER LOCATIONS

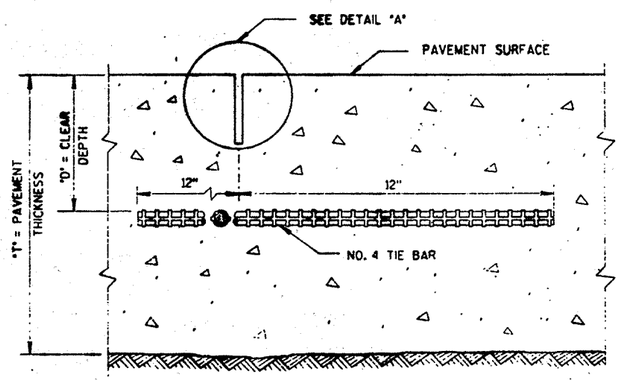
CONCRETE MEDIAN SLOPED NOSE DETAIL

STATE PROJECT NUMBER	SHEET NO.
4984 - 00 - 83	2.5

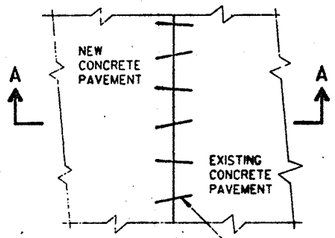
LONGITUDINAL JOINT
(WITH HOT POURED SEALER)



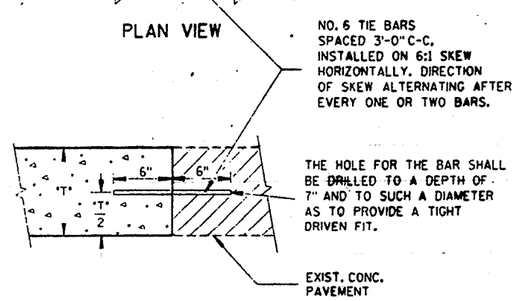
CONSTRUCTION JOINT



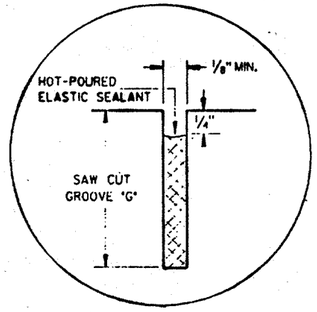
SAWED JOINT



PLAN VIEW



SECTION A-A
PAVEMENT TIES



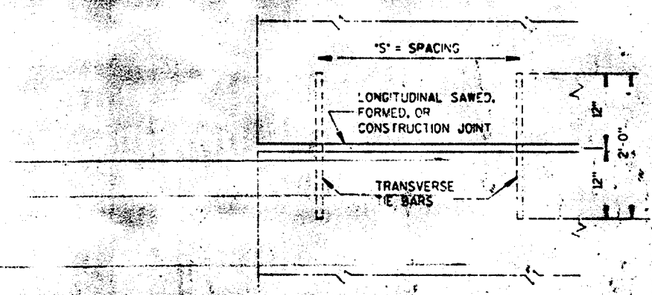
DETAIL "A"

PAVEMENT THICKNESS "T"	CLEAR DEPTH "D"	SAW CUT GROOVE "G"	MAXIMUM TIE BAR SPACING "S"
6"	3"±1/2"	1 1/2"	30"
7"	3 1/4"±1"	1 3/4"	30"
8"	3 3/4"±1"	2"	30"
9"	4 1/4"±1"	2 1/4"	30"
10"	4 3/4"±1"	2 1/2"	30"
11"	5 1/4"±1"	2 3/4"	24"
12"	5 3/4"±1"	3"	24"

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.

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

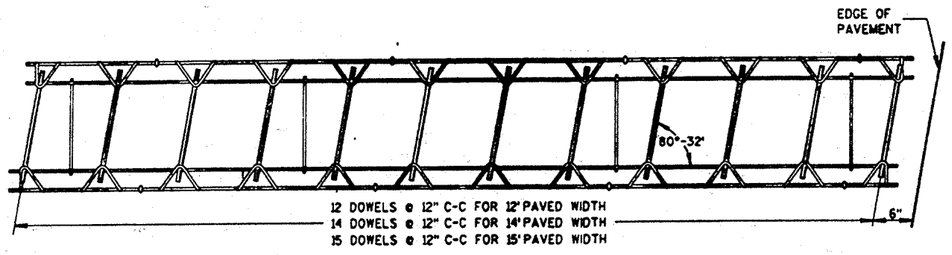


PLAN VIEW
SHOWING LOCATION OF TIE BARS

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

STATE PROJECT NUMBER	SHEET NO.
4984 - 00 - 83	2.6

DOWELED NON-REINFORCED CONCRETE PAVEMENT
RANDOM SPACED JOINTS, 13'-19'-18'-12'
(HOT POURED SEALANT)



PLAN VIEW

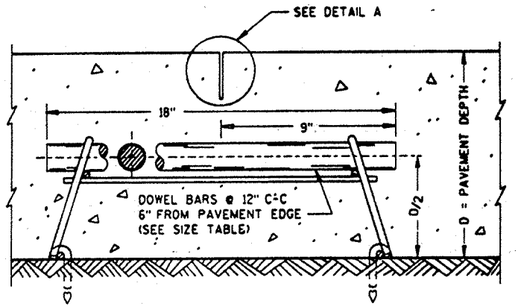


SIDE VIEW

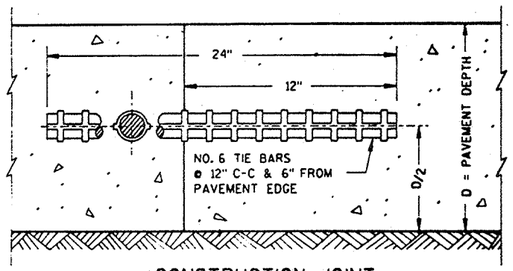
SKEWED CONTRACTION JOINT DOWEL ASSEMBLY ①

DOWEL BAR SIZE TABLE

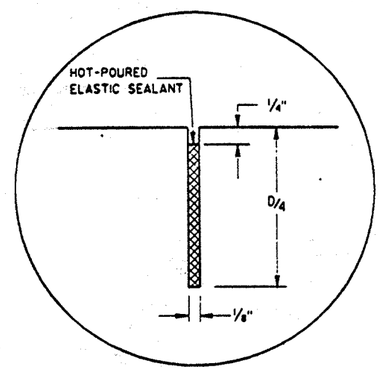
PAVEMENT DEPTH	DOWEL BAR DIAMETER
9" OR LESS	1¼"
MORE THAN 9"	1½"



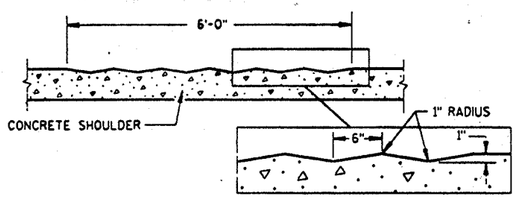
DOWELED CONTRACTION JOINT



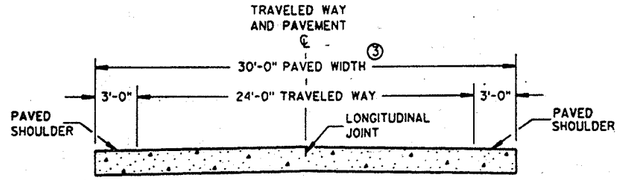
CONSTRUCTION JOINT



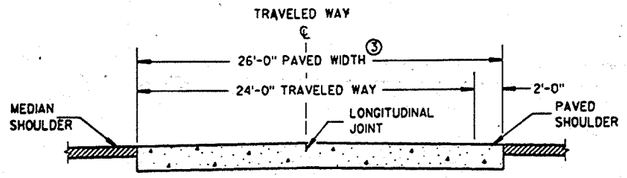
DETAIL A



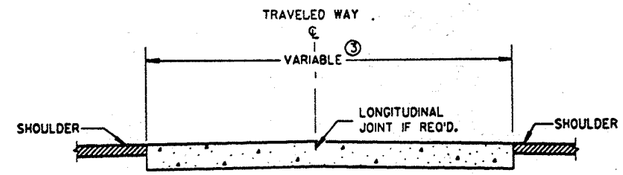
SECTION B-B (FORMED)
CORRUGATION DETAIL ④



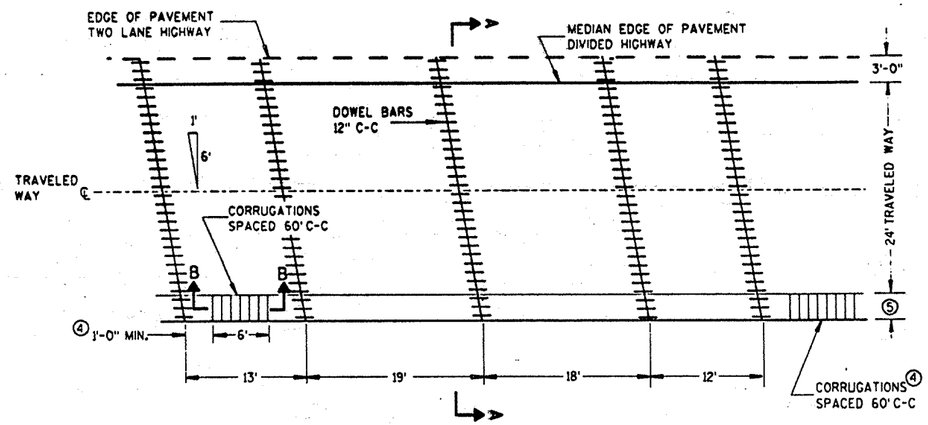
SECTION A-A ②
TWO-LANE TWO-WAY HIGHWAY



SECTION A-A
DIVIDED HIGHWAY ②



SECTION A-A ②
RAMPS & SIDEROADS



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

CONTRACTION JOINTS

CONTRACTION JOINTS SHALL BE RANDOM SPACED AND SKEWED RIGHT HAND FORWARD. EXCEPTIONS SUCH AS CONTRACTION JOINTS THROUGH INTERSECTIONS SHALL BE AS DIRECTED BY THE ENGINEER.

DOWEL BARS SHALL BE PARALLEL TO THE CENTERLINE.

CONSTRUCTION JOINTS

CONSTRUCTION JOINTS SHALL BE A MINIMUM OF 4 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGNED EITHER PARALLEL TO CONTRACTION JOINTS OR AT 90° TO THE CENTERLINE.

TIE BARS MAY BE INSERTED THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN POURED.

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

① ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY MAY BE USED WHEN APPROVED BY THE ENGINEER.

② REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

③ THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED PAVED SHOULDER WILL BE MEASURED AS CONCRETE PAVEMENT.

④ SHOULDER CORRUGATIONS REQUIRED FOR DIVIDED HIGHWAYS ONLY. ADJUST SPACING AS NECESSARY TO AVOID LOCATING CORRUGATIONS ON TRANSVERSE JOINTS.

⑤ 2'-0" DIVIDED HIGHWAYS
3'-0" TWO-LANE TWO-WAY HIGHWAYS
SEE SECTION A-A

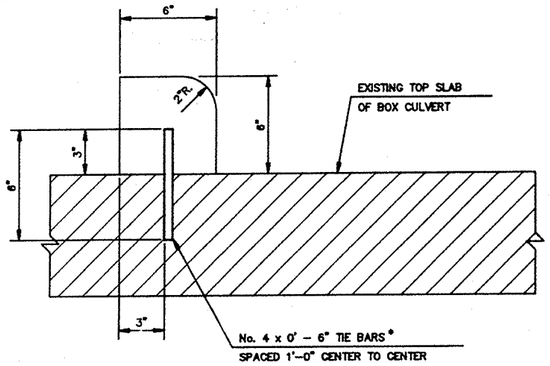
LEVELS ON 1, 5,

FILE NAME: (illegible)

WISDOT/CADDS, SHEET 42

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.7

CONSTRUCTION DETAILS
C.T.H. "00" FOR OUTAGAMIE CO.

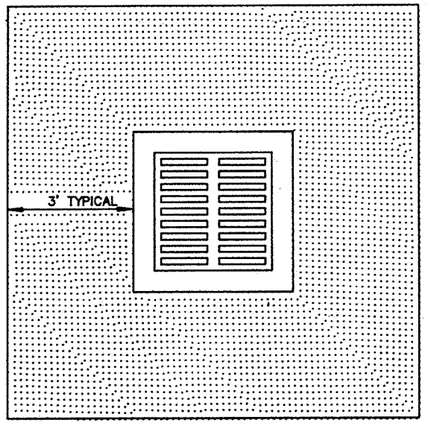


* TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.

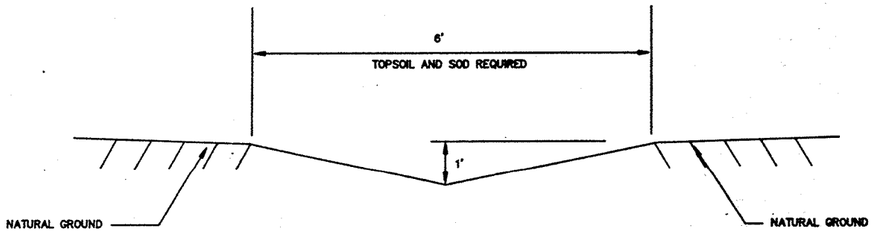
* TIE BARS SHALL BE DRILLED AND GROUTED INTO PLACE IN COMFORMANCE WITH SUBSECTION 415.7.9 OF THE STANDARD SPECIFICATIONS.

* SEE SPECIAL PROVISIONS.

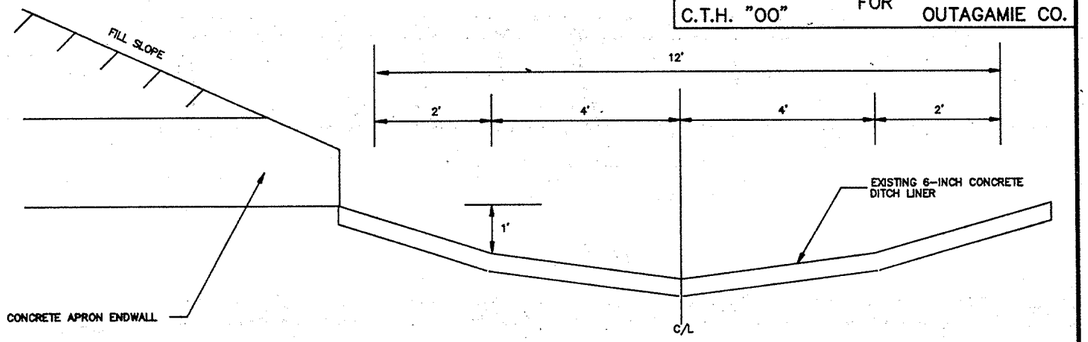
CONCRETE CURB, SPECIAL



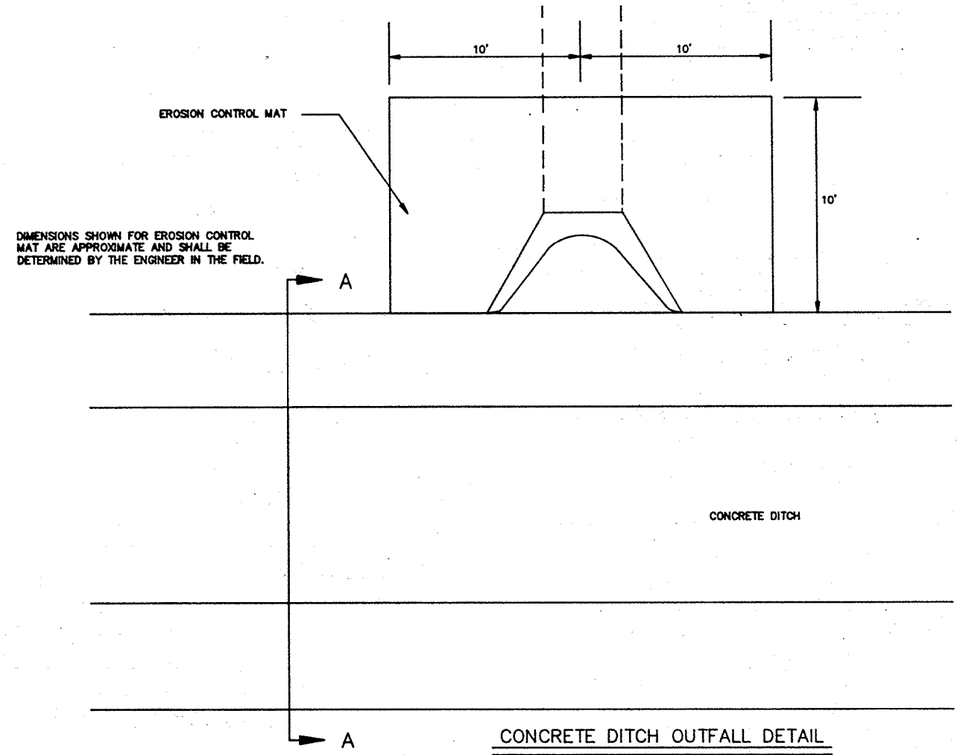
SOD AT INLETS



DITCH DETAIL



SECTION A-A

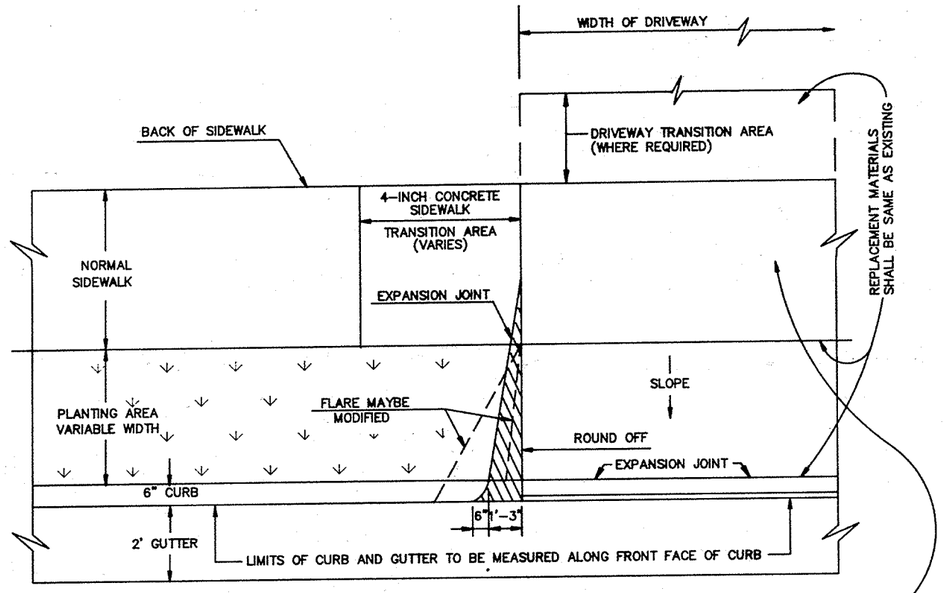


CONCRETE DITCH OUTFALL DETAIL

STRUCTURES 26A,33A,37A,42A,47A,52A,57A,64A,69A,79A

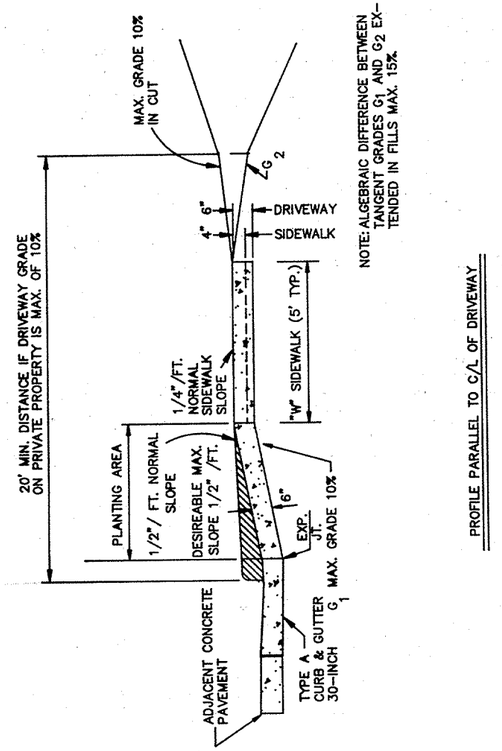
STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.8

CONSTRUCTION DETAILS
C.T.H. "00" FOR OUTAGAMIE CO.



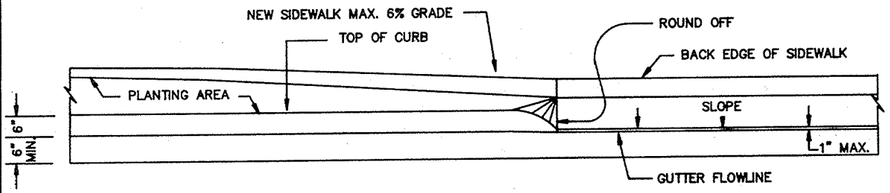
PLAN

CONCRETE DRIVEWAY DETAIL



NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G_1 AND G_2 EXTENDED IN FILLS MAX. 15%.

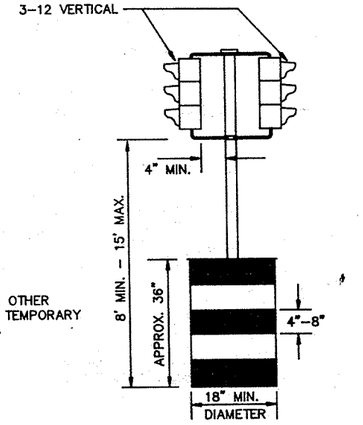
PROFILE PARALLEL TO C/L OF DRIVEWAY



PROFILE PARALLEL TO CENTERLINE OF ROADWAY

GENERAL NOTES FOR DRIVEWAYS

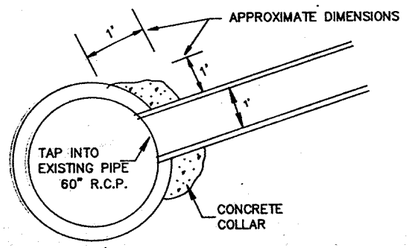
1. MATERIALS FOR DRIVEWAY TRANSITION AREAS TO BE SAME AS EXISTING.
2. FOR ASPHALTIC DRIVEWAY TRANSITIONS, USE 6-INCH CRUSHED AGGREGATE BASE COURSE AND 2-INCH ASPHALTIC SURFACE.
3. FOR CONCRETE DRIVEWAY TRANSITIONS, USE 6-INCH CONCRETE AND 4-INCH CRUSHED AGGREGATE BASE COURSE.
4. FOR GRAVEL DRIVEWAY TRANSITIONS, USE 8-INCH CRUSHED AGGREGATE BASE COURSE.
5. ALL DRIVEWAY APRONS SHALL BE 6-INCH CONCRETE.
6. DRIVEWAY TRANSITION DISTANCES SHOWN ON THE PLAN ARE APPROXIMATE AND MUST BE VERIFIED BY THE ENGINEER IN THE FIELD FOR COMPLIANCE WITH THIS DETAIL.
7. IF EXISTING DRIVEWAYS HAVE MATERIAL DEPTHS GREATER THAN THOSE LISTED ABOVE, THE CONSTRUCTED THICKNESS SHALL MATCH EXISTING.



DRUM TO BE FILLED WITH SAND OR OTHER APPROVED MATERIAL TO HOLD THE TEMPORARY SIGNAL IN THE INTENDED LOCATION.

DRUM

TEMPORARY TRAFFIC SIGNAL DETAIL

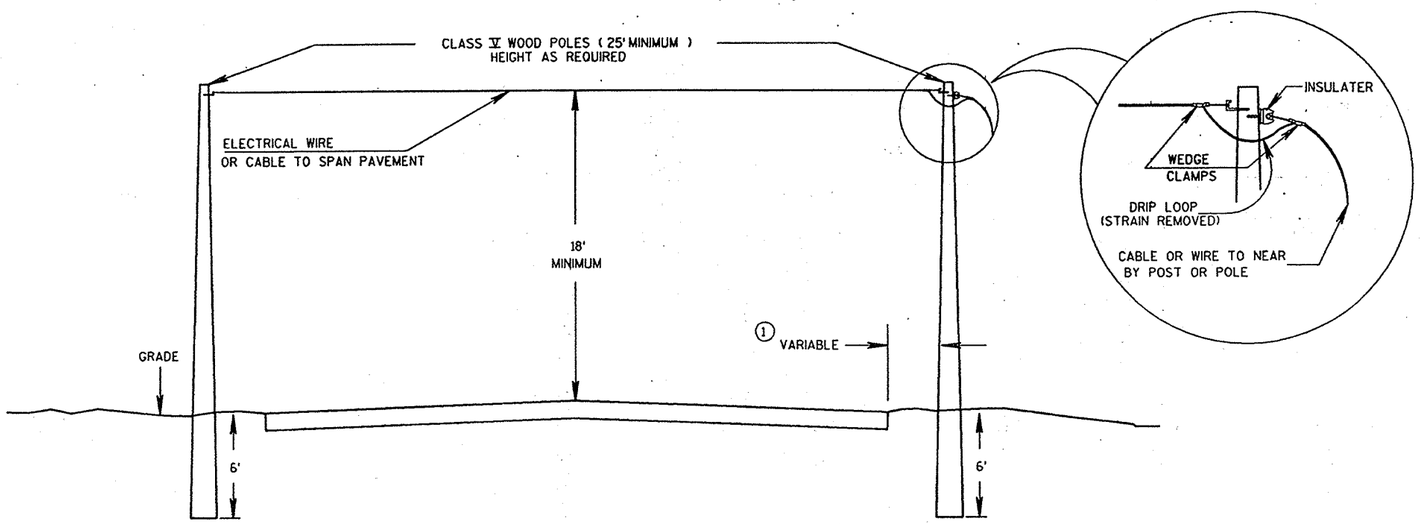


DETAIL FOR CONCRETE COLLAR

STRUCTURE LOCATIONS 99 AND 99B

STATE PROJECT NUMBER	SHEET. NO.
4984 - 00 - 83	2.9

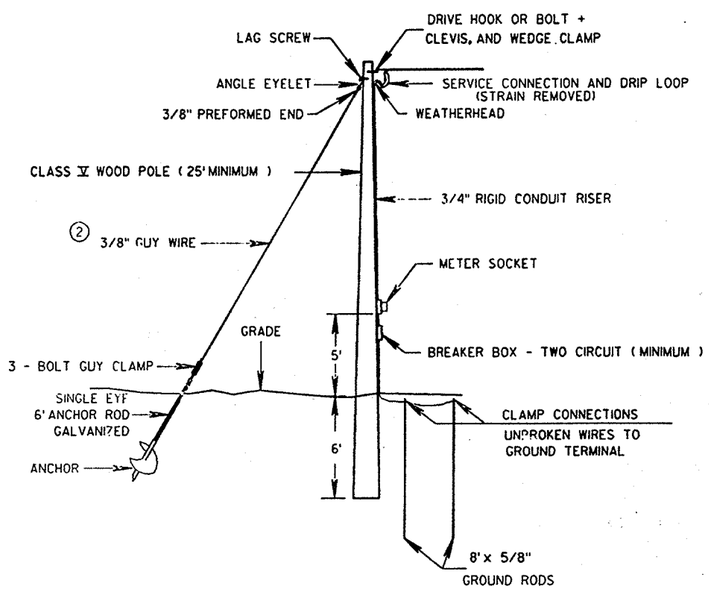
DETAILS FOR
WIRING FOR TEMPORARY ELECTRICAL INSTALLATIONS



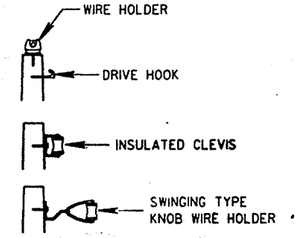
NOTES :

1. DISTANCE OFF OF PAVEMENT AND ANY DIFFERENCE IN POLE HEIGHT SHALL BE DETERMINED BY THE DISTRICT TRAFFIC ENGINEER

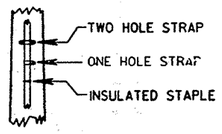
2. NECESSARY GUYING OF ANY POLES OR POSTS, (AS SHOWN FOR OVERHEAD SERVICE), SHALL BE DETERMINED BY THE PROJECT ENGINEER



OVERHEAD SERVICE

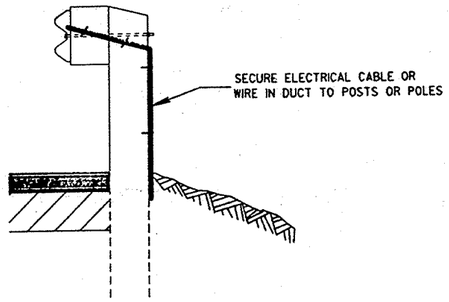


TYPICAL SECURING DEVICES
AT TOP OF POLES OR POSTS

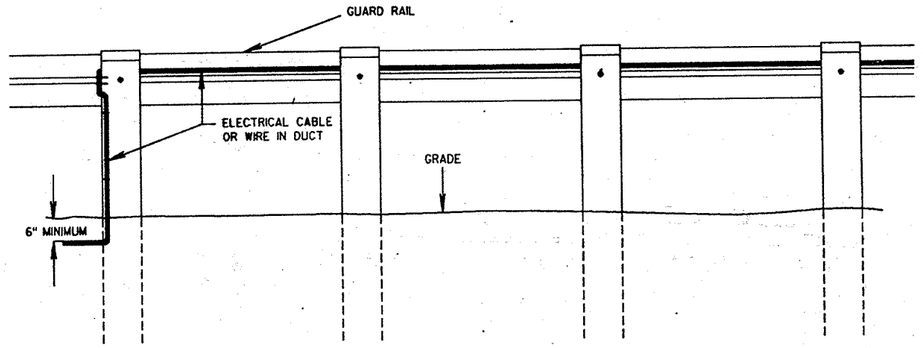


CONSTRUCTION MANNER IN WHICH
TO SECURE CABLE OR DUCT
TO POST OR POLE

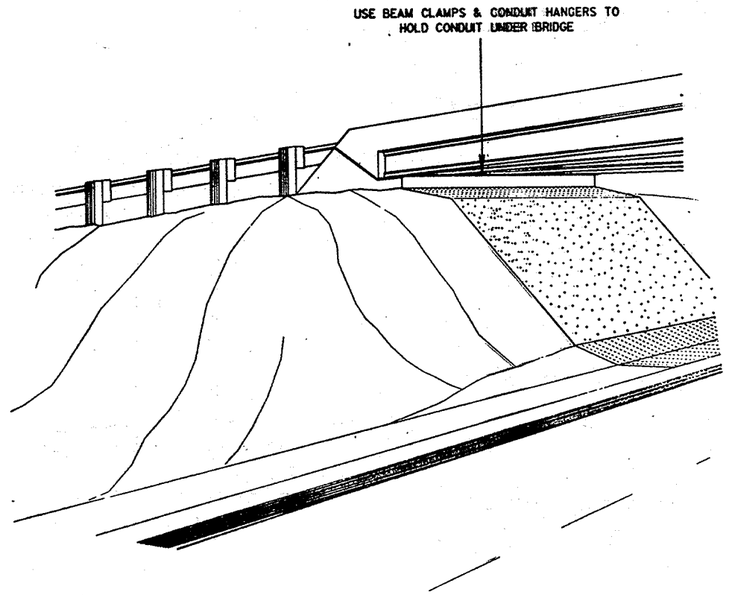
STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.10



END VIEW



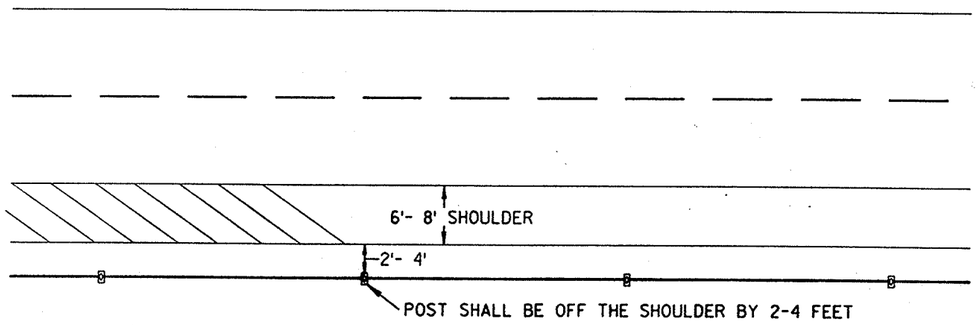
SIDE VIEW

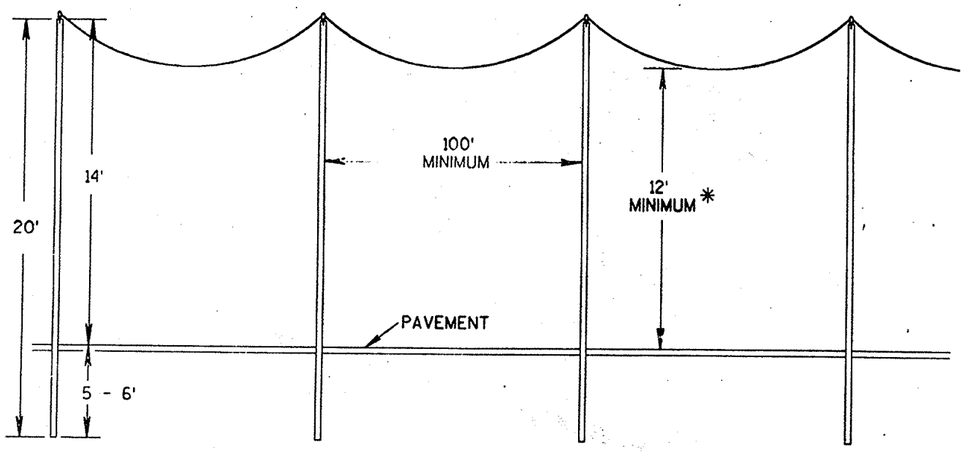


ELECTRICAL CABLE OR WIRE IN DUCT UNDER STRUCTURES

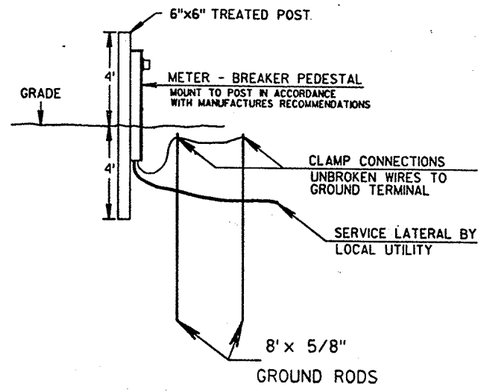
STATE PROJECT NUMBER	SHEET NO.
4984 - 00 - 83	2.11

DETAILS FOR
WIRING FOR TEMPORARY ELECTRICAL INSTALLATIONS





4"x 6" POSTS PARALLEL TO PAVEMENT



UNDERGROUND SERVICE

* IF VEHICULAR TRAFFIC IS TO PASS UNDER A SECTION OF THIS OVERHEAD CABLE OR WIRE TO GET TO OR FROM THE JOB SITE, THE CABLE OR WIRE SHALL BE RAISED TO 18' IN THAT PARTICULAR SECTION.

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.12

CONSTRUCTION DETAILS
FOR
C.T.H. "00" OUTAGAMIE CO.

ENDWALL 2A
STA 636 + 10
46.8' LT

MANHOLE 2B
STA 636 + 25
46.8' LT
℄ = 743.94

N

TEMPORARY LIMITED EASEMENT
PARCEL No. 101
OWNER: CARL A. MATSON

TEMPORARY LIMITED EASEMENT
PARCEL No. 103
OWNER: JAMES F. BAER

HSE

STA. 636+47
80' LT.

STA. 638+87
80' LT.

SLOPE INTERCEPT

SAW CUT REQ'D.

GAS MH
GV
WS
T
G
R/W
MH
WV
15"SAN
12"W
24" C.M.C.P.
24"R.C.C.P.
15" P.V.C.
10' TYP. 20' CURB OPENING
24' CURB OPENING
72"SS

BEGIN PROJECT
STA. 635+50

634 635 636 637 638

753.87
753.57
753.14
752.55
751.81
750.95
750.22
752.62
751.88
751.02
750.29
753.57
753.14
752.55
751.81
750.95
750.22

24' 7.5' 6.5' 24' 28' B-B

NORTHLAND AVE. (C.T.H."00")

TAPER CURB HEIGHT 0" TO 6" IN 10 FEET AT END OF CONCRETE CURB AND GUTTER SECTIONS

CONCRETE CURB & GUTTER 30" TYPE "D" REQ'D.

1 TIE INTO EXISTING 72" STORM SEWER

1A TIE INTO EXISTING 72" STORM SEWER

4 4A

BEGIN CURB & GUTTER
STA. 637+00

STA. 637+05
75' RT.

SLOPE INTERCEPT

TEMPORARY LIMITED EASEMENT
PARCEL No. 102
OWNER: LAWRENCE J. CASEY

TEMPORARY LIMITED EASEMENT
PARCEL No. 104
OWNER: ROBERT A. PHILLIPS

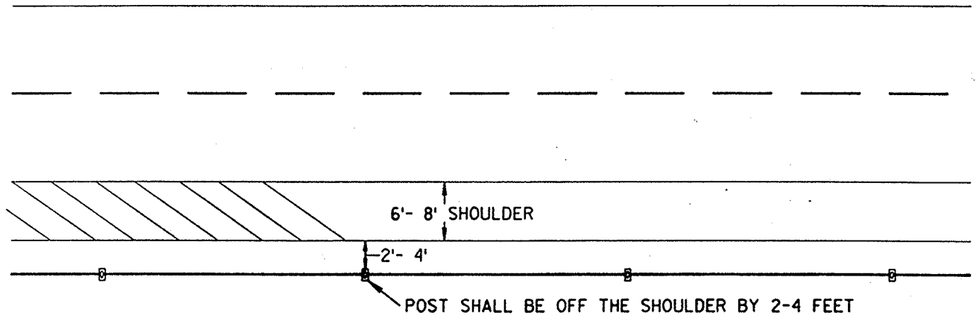
(ASPH.)

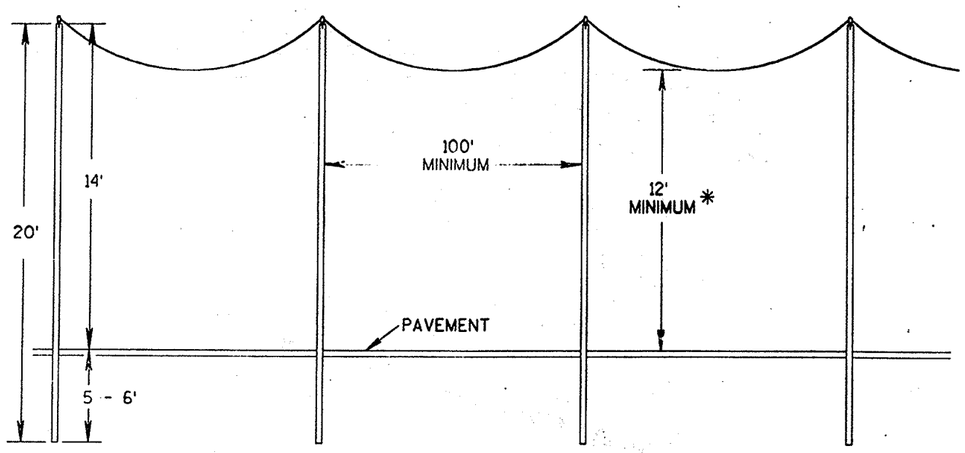
INLET 1
STA 636 + 40
44.0' RT

2.12

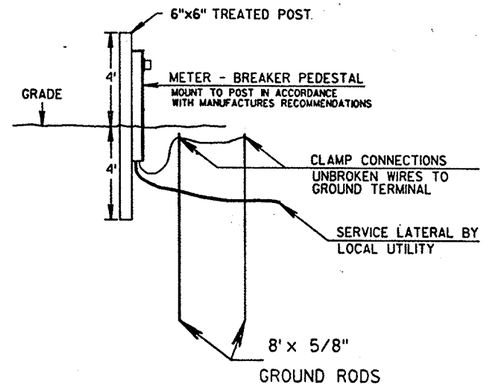
STATE PROJECT NUMBER	SHEET NO.
4984 - 00 - 83	2.11

DETAILS FOR
WIRING FOR TEMPORARY ELECTRICAL INSTALLATIONS





4"x 6" POSTS PARALLEL TO PAVEMENT



UNDERGROUND SERVICE

*IF VEHICULAR TRAFFIC IS TO PASS UNDER A SECTION OF THIS OVERHEAD CABLE OR WIRE TO GET TO OR FROM THE JOB SITE, THE CABLE OR WIRE SHALL BE RAISED TO 18' IN THAT PARTICULAR SECTION.

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.12

CONSTRUCTION DETAILS
FOR
C.T.H. "00" OUTAGAMIE CO.

ENDWALL 2A
STA 636 + 10
46.8' LT

MANHOLE 2B
STA 636 + 25
46.8' LT
℄ = 743.94

N

P/L

HSE

TEMPORARY LIMITED EASEMENT
PARCEL No. 101
OWNER: CARL A. MATSON

STA. 636+47
80' LT.

STA. 638+87
80' LT.

TEMPORARY LIMITED EASEMENT
PARCEL No. 103
OWNER: JAMES F. BAER

SLOPE INTERCEPT

SAW CUT REQ'D.

GAS MH
GV
WS
T
R/W
G
24" C.M.C.P.
24" R.C.C.P.
15" SAN
12" W
MH
WV
15" P.V.C.
10' TYP. 20' CURB OPENING
24' CURB OPENING
2A
2B
1
2
3
4
4A

BEGIN PROJECT
STA. 635+50

634
635
120'
753.87
753.57
636
753.14
752.55
751.81
750.95
750.22
638
752.62
751.88
751.02
750.29
752.55
751.81
750.95
750.22
24'
8.5'
17.5'
88'-8"

NORTHLAND AVE. (C.T.H. "00")

TAPER CURB HEIGHT 0" TO 6" IN 10 FEET AT END OF CONCRETE CURB AND GUTTER SECTIONS

CONCRETE CURB & GUTTER 30" TYPE "D" REQ'D.

1A TIE INTO EXISTING 72" STORM SEWER

4A TIE INTO EXISTING 72" STORM SEWER

MH
72" SS

BEGIN CURB & GUTTER
STA. 637+00

STA. 637+05
75' RT.

(ASPH.)

TEMPORARY LIMITED EASEMENT
PARCEL No. 102
OWNER: LAWRENCE J. CASEY

TEMPORARY LIMITED EASEMENT
PARCEL No. 104
OWNER: ROBERT A. PHILLIPS

INLET 1
STA 636 + 40
44.0' RT

2.12

* EBS - BACKFILLED WITH SAS FABRIC & BREAKER RUN

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.13

CONSTRUCTION DETAILS FOR C.T.H. "00" OUTAGAMIE CO.

SANITARY MANHOLES
STA 642+10 31.3' LT
STA 642+25 22.3' LT

MANHOLE 2
638+50
27.3' LT
℄ = 744.47

MANHOLE 5
640+00
27.3' LT.

MANHOLE 8
STA 641+38
29.2' LT.

WB - EBS* 1' DEPTH
STA 639+50 - 642+70
STA 643+50 - 647+00

EXISTING DRIVEWAY, STA. 644+10 LT. TO BE RELOCATED TO STA. 643+18 LT., EXISTING DRIVEWAY TO BE REMOVED.

18-INCH C.M.C.P., STA. 642+65 LT TO BE REMOVED

PLUGGED, NOT REMOVED
18-INCH C.M.C.P., STA. 643+10 LT TO BE REMOVED
EXISTING CONNECTION TO 84-INCH R.C.C.P. SHALL BE PLUGGED

SUMP TILE
STA. 642+87, 44.6' LT
STA. 643+60, 70' LT

8"P.V.C.

CONC. DITCH

DITCHING REQ'D. SEE CONSTRUCTION DETAIL DRAWING

84" R.C.C.P.

747.00

STA. 642+37
105' LT.

TEMPORARY LIMITED EASEMENT
PARCEL No. 108
OWNER: C.P. DOUGHERTY

24-INCH C.M.C.P., STA. 644+10 LT. TO BE REMOVED

SAW CUT REQ'D.

EXISTING DRIVEWAY TO BE REMOVED

CONCRETE CURB & GUTTER 18-INCH, TYPE "A" REQ'D.

747.50

(ASPH.)

SLOPED ISLAND NOSE

VALMET

CITY OF APPLETON

TEMPORARY LIMITED EASEMENT
PARCEL No. 103
OWNER: JAMES E. BAER

P.I. 639+73.45 SURVEY T/L
BEGIN ULTIMATE SECTION

STA. 638+87
80' LT.

SLOPE INTERCEPT

P.I. 641+73.45 SURVEY T/L
13.5'LT., ANGLE = 181°43'06"

CONCRETE CURB & GUTTER 30-INCH, TYPE "A" REQ'D.

SQUARE ISLAND NOSE

TIE INTO EXISTING 84" STORM SEWER

SLOPED ISLAND NOSE

18"C.M.C.P.

8A

30' CURB OPENING

25' CURB OPENING

CONSTRUCTION R/L

NORTHLAND AVE. (C.T.H."00")

749.74 15"C.M.C.P.

749.64 749.69 WESTBOUND 749.74

749.74 749.69 EASTBOUND

SOD REQ'D.

749.66 SAN.

749.21 SAN

749.38

749.54

749.46 G.R.

749.39 749.27

749.47 749.51 749.75

749.67 749.91 749.98

749.08 749.29 749.50 749.66 749.82 749.06 749.30 748.82 748.91 748.67 748.86 748.50 748.63 749.10 749.11 749.15 749.17 749.18 749.23 749.32 749.25 749.65 749.72 749.28 750.22 749.95 750.38 750.02 750.95

639 640 641 642 643 644

+73.45 +65.68 +48

24' 7.5' 12' 2'

.02% .018% .012% .004%

120'

SURVEY T/L

108 108A 108B

7 7A 10 10A 106A 106B

4 4A 2A 2B 1A 1B

TIE INTO EXISTING 72" STORM SEWER

TIE INTO EXISTING 72" STORM SEWER

MH

72"SS

35' CURB OPENING

R/W SLOPE INTERCEPT

STA. 641+08
75' RT.

CONSTRUCTION R/L

SAW CUT REQ'D.

10-INCH CONCRETE 6" CRUSHED AGGREGATE BASE REQ'D.

SIGN

*P-44-715 EXT.

*SEE DRG. X83942

EB - EBS* 1' DEPTH
STA 641+00 - 642+20

TEMPORARY LIMITED EASEMENT
PARCEL No. 104
OWNER: ROBERT E. PHILLIPS

(ASPH.)

TEMPORARY LIMITED EASEMENT
PARCEL No. 106
OWNER: ROBERT J. KNUPPER

TEMPORARY LIMITED EASEMENT
PARCEL No. 107
OWNER: MARSHA A. GUERTS-FELLOWS

INLET 108
STA. 640+24
44.6' RT.

HSE

NORTHLAND TROPICS

CONC. SIDEWALK

INLET 111
8-MS
STA 643+35
76.5' RT.

STA. 643+41
120' RT.

8"P.V.C.

TEMPORARY LIMITED EASEMENT
PARCEL No. 109
OWNER: FEW INVESTMENT

GRASS

= CITY FURNISHED STREET LIGHT

SECTIONS

2.13

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.14

CONSTRUCTION DETAILS
C.T.H. "00" FOR OUTAGAMIE CO.

N

VALMET

BAXTON, ONEIL & HELLESTAD INSURANCE

BURGER KING

BERNSTEN MONUMENT SET

TEMPORARY LIMITED EASEMENT
PARCEL No. 108
OWNER: C.P. DOUGHERTY

STA. 644+53
105' LT.

24-INCH C.M.C.P., STA. 644+10 LT.
TO BE REMOVED

EXISTING DRIVEWAY
TO BE REMOVED

P.I. 9+69.95 C.T.H."E", SURVEY T/L,
6.5'LT., ANGLE = 179°45'01"

STA. 645+89.22, C.T.H."00" SURVEY T/L=
STA. 9+69.95, C.T.H."E" S.B. REF.LINE

SLOPED (TYP.)
ISLAND NOSE

SLOPE INTERCEPT

(CONC.)5" CONC. SIDEWALK

(C.T.H. "E")

TYPE 2 CURB RAMP REQ'D. (TYP.)
STA. 646+84
80' LT.

TEMPORARY LIMITED EASEMENT
PARCEL No. 111
OWNER: KFP (BURGER KING)

CONCRETE CURB & GUTTER
30-INCH, TYPE "A" REQ'D.

CONSTRUCTION R/L

SURVEY T/L NORTHLAND AVE. (C.T.H."00")

WESTBOUND

EASTBOUND

5" CONC. SIDEWALK

SOD REQ'D.

CONCRETE CURB & GUTTER
18-INCH, TYPE "A" REQ'D.

STA. 646+09.22, C.T.H."00" SURVEY T/L=
STA. 9+70.03, C.T.H."E" N.B. REF.LINE

CONC. DITCH

STA. 645+95.72 C.T.H."00", SURVEY T/L=
STA. 9+70 C.T.H."E", SURVEY T/L

BERNSTEN MONUMENT SET

* P-44-715 EXT.
~~CONC. DITCH~~

STA. 643+41
120' RT.

8"P.V.C.

TEMPORARY LIMITED EASEMENT
PARCEL No. 109
OWNER: FEW INVESTMENT

STA. 645+08
120' RT.

SLOPE INTERCEPT

TYPE 2 CURB RAMP REQUIRED (TYP.)

* SEE DRG. #83942
(9 SHEETS)

BALLARD RD.

B.M. EL. 748.23

*NOTE: SEE CONSTRUCTION DETAIL DRAWINGS FOR TRAFFIC SIGNAL LAYOUT

THE EXISTING TRAFFIC SIGNAL CONTROLLER, STA. 646+50, C.T.H. "00", 57' LT., SHALL BE SALVAGED FOR THE CITY OF APPLETON.

2.14

* EBS - BACKFILLED WITH SAS FABRIC AND BREAKER RUN

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.15

CONSTRUCTION DETAILS FOR C.T.H. "00" OUTAGAMIE CO.

WB - EBS *

STA 643+50 - 647+00 (1' DEEP)
STA 647+00 - 650+00 (2' DEEP)
STA 650+00 - 684+00 (1' DEEP)

N

BANK ONE

DRIVE-UP

TELLER

PILLAR

(ASPH.)

6"SAN

G

P/L

TEMPORARY LIMITED EASEMENT
PARCEL No. 111
OWNER: KFP (BURGER KING)

SLOPE INTERCEPT

15"P.V.C.

12"P.V.C.

GV

R/W

MH

8"SAN

TEMPORARY LIMITED EASEMENT
PARCEL No. 112
OWNER: BANK ONE

STA. 652+60
80' LT.

STA. 652+60
87' LT.

SAW CUT REQ'D.

SAW CUT REQ'D.

SIGN

24-INCH C.M.C.P., STA. 652+70
TO BE REMOVED

BIG BOY

TEMPORARY LIMITED EASEMENT
PARCEL No. 113
OWNER: GUEST HOUSE INN, INC.

CONSTRUCTION R/L

CONC. SPILLWAY

35' CURB OPENING

60'R.

744.61 C.M.C.P.

WS 744.85

+82.75

+18.27

+48.27

+21.72

+37.16

+32.16

+12.16

27A 27 28 28A 29 30 31 32 33 33A 34 34A 35 35A 36 37 37A 38 39 40 41 42 42A

746.66 746.60 746.81 746.53 746.43 746.24 746.48 745.99 745.71 745.44 745.16 744.89 744.61 744.34 744.06 743.79
747.05 746.53 746.77 746.48 746.23 745.95 745.68 745.40 745.13 744.85 744.58 744.30 744.03
746.81 746.53 746.43 746.24 745.99 745.71 745.44 745.16 744.89 744.61 744.34 744.06 743.79
746.66 746.61 746.48 650 745.92 651 745.61 745.40 652 744.92 744.79 653 744.51 654 744.06 743.79
746.66 746.81 746.53 746.24 745.99 745.71 745.44 745.16 744.89 744.61 744.34 744.06 743.79
747.05 746.53 746.77 746.48 746.23 745.95 745.68 745.40 745.13 744.85 744.58 744.30 744.03
746.81 746.53 746.24 745.99 745.71 745.44 745.16 744.89 744.61 744.34 744.06 743.79

WV 12"W

WV

5" CONC. SIDEWALK

SLOPED ISLAND NOSE

30' R.

12' 12' 13.5' 6.5'

WESTBOUND

EASTBOUND

SOD REQ'D

SOD REQ'D.

NORTHLAND AVE. (C.T.H. "00")

SURVEY T/L

CONCRETE CURB & GUTTER
30-INCH, TYPE "A" REQ'D.

CONSTRUCTION R/L

CONCRETE CURB & GUTTER
18-INCH, TYPE "A" REQ'D.

FRENCH DRAIN
STA 653+40

CONC. DITCH

9"P.V.C.

EB - EBS *

STA 649+10 - 652+00 (4' DEEP)
STA 652+00 - 657+00 (2' DEEP)

CITY FURNISHED
STREET LIGHT

2.15

* EBS- BACKFILLED WITH SAS FABRIC AND BREAKER RUN

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.16

CONSTRUCTION DETAILS
C.T.H. "OO" FOR OUTAGAMIE CO.

WB - EBS *

STA 650+00 - 684+00. (1' DEEP)

N

BIG BOY

MH

TEMPORARY LIMITED EASEMENT
PARCEL No. 113
OWNER: GUEST HOUSE INN, INC.

STA. 657+70
87' LT.

STA. 657+70
75' LT.

P/L

8"SAN

SLOPE INTERCEPT

TEMPORARY LIMITED EASEMENT
PARCEL No. 114
OWNER: APPLETON WATER COMMISSION

CONCRETE CURB & GUTTER
30-INCH, TYPE "A" REQ'D.

12"S.V.C.

10"SAN

MH

R/W

8"SAN

T

WS

T

G

G

48A

CONSTRUCTION R/L

744.06	38	743.79	743.52	743.24	742.97	43	742.69	742.46	48B	742.30	742.23	48	742.23	742.31	742.47	742.67							
744.30		744.03	743.76	743.48 WV	743.21		742.93	742.70		742.54	742.47		742.47	742.55	742.71	742.91							
WESTBOUND	39	743.79	743.52	743.24	742.97	44	742.69	742.46	SURVEY T/L	742.30	742.23	49	742.23	742.31	742.47	WESTBOUND 742.67							
744.06																							
654	40	SOD REQ'D	655		656	45		657	NORTHLAND AVE. (C.T.H."OO")		658	50		659	SOD REQ'D	660								
744.06	41	743.79	743.52	743.24	742.97	46	742.69	742.46		742.30	742:23	51	742.23	742.31	742.47	742.67							
744.30		744.03	743.76	743.48	743.21		742.93	742.70		742.54	742.47		742.47	742.55	742.71	EASTBOUND 742.91							
EASTBOUND																							
744.06		743.79	743.52	743.24	742.97		742.69	742.46		742.30	742.23		742.23	742.31	742.47	742.67							
	42					47						52	CONSTRUCTION R/L			742.59							

+42.28

+42.28

42A

47A

52A

FRENCH DRAIN
STA 655+50
CONC. DITCH

CONCRETE CURB & GUTTER
18-INCH, TYPE "A" REQ'D.

FRENCH DRAIN
STA 657+10

SLOPE INTERCEPT

FRENCH DRAIN
STA 659+10

R/W

EB- EBS *

STA 652+00 - 657+00 (2' DEEP)
STA 657+00 - 672+00 (1' DEEP)

P/L

P/L

BERTSCH CO. 2.16

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.17

CONSTRUCTION DETAILS
C.T.H. "00" FOR OUTAGAMIE CO.

18-INCH C.M.C.P., STA. 662+20 LT.
TO BE REMOVED

18-INCH C.M.C.P., STA. 662+75 LT.
TO BE REMOVED

SAW CUT REQ'D.

MATCH 11+50

STA. 662+07
75' LT.

TYPE 1 CURB RAMP REQUIRED (TYP.)

STA. 662+95
65' LT.

AIRCO

STA. 662+46.53 C.T.H."00", SURVEY T/L=
STA. 10+00 N. ROEMER RD.

TEMPORARY LIMITED EASEMENT
PARCEL No. 114
OWNER: APPLETON WATER COMMISSION

SLOPE INTERCEPT

CONCRETE CURB & GUTTER
30-INCH, TYPE "A" REQ'D.

SLOPED
ISLAND NOSE

TEMPORARY LIMITED EASEMENT
PARCEL No. 116
OWNER: BOC GROUP

CONSTRUCTION R/L

WESTBOUND

EASTBOUND

5" CONC. SIDEWALK

SOD REQ'D.

NORTHLAND AVE. (C.T.H."00")

SURVEY T/L

90°27'31"

89°37'58"

180°00'00"

CONCRETE CURB & GUTTER
18-INCH, TYPE "A" REQ'D.

CONC. DITCH

END CONCRETE PAVEMENT
CURB & GUTTER

CONC. BOX CULVERT

TYPE 1 CURB RAMP REQ'D. (TYP.)

FRENCH DRAIN
STA 661+34

MATCH 9+35

ROEMER RD.

CITY OF APPLETON EASEMENT AREA

EXISTING CURB, STA. 9+15 TO 9+35 ROEMER RD., TO BE REMOVED. 6-INCH CURB TO BE CONSTRUCTED. SEE CONSTRUCTION DETAIL DRAWING.
EXISTING CURB TIED TO TOP SLAB OF BOX CULVERT WITH No.4 DOWELS AT 12-INCH CENTER TO CENTER.

STA. 662+43.35 C.T.H."00", SURVEY T/L=
STA. 10+00 S. ROEMER RD.

TYPE 1 CURB RAMP REQUIRED (TYP.)

= CITY FURNISHED STREET LIGHTS

12" R.C.A. ENDWALL 112A
STA 662+95
50' RT.

INLET 112
STA 9+46 ROEMER
37' LT.

BERTSCH CO.

*NOTE: SEE CONSTRUCTION DETAIL DRAWINGS FOR TRAFFIC SIGNAL LAYOUT

2.17

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.18

CONSTRUCTION DETAILS
C.T.H. "00" FOR OUTAGAMIE CO.

N

CURVE DATA
P.I.= 669+00.09
P.C.= 664+93.07
P.T.= 673+07.03
R= 22,923.31'
D= 00°15'00"
Δ= 2°02'04"
L= 813.96'
T= 407.02'
E= 3.61'
SE= NC

BUSHES
SIGN
TEMPORARY LIMITED EASEMENT
PARCEL No. 116
OWNER: BOC GROUP
TEMPORARY LIMITED EASEMENT
PARCEL No. 117
OWNER: S & T ENTERPRISES
STA. 668+13.55
65' LT.
P/L
CONCRETE CURB & GUTTER
30-INCH, TYPE "A" REQ'D.
SURVEY T/L
SLOPE INTERCEPT
CONSTRUCTION R/L
R/W
P.C.=664+93.07
+47.7
60
61
62
63
64
64A
65
66
67
68
69
69A
70
71
72
73
74
74A
12'W
20'
12'
13.5'
3.5'
T
742.55
742.60
742.91
742.47
742.71
742.27
742.51
742.07
742.31
741.87
742.11
741.67
741.91
741.47
741.71
741.27
741.51
741.11
741.35
741.04
741.28
741.06
741.30
741.16
741.40
665
666
667
668
669
670
NORTHLAND AVE. (C.T.H. "00")
WESTBOUND
EASTBOUND
SOD REQ'D.
CONCRETE CURB & GUTTER
18-INCH, TYPE "A" REQ'D.
EXISTING DRIVEWAY
TO BE REMOVED
96"R.C.C.P.
G.R.
CONC. DITCH
SLOPE INTERCEPT
CITY OF APPLETON EASEMENT ARFA
15"P.V.C.
(ASPH.)
LOADING DOCK
VALLEY PACKAGING
INDUSTRIES INC.

74A
18" RCP. CL. III
TIE INTO 96" RCCP

2.18

* EBS- BACKFILLED WITH SAS FABRIC AND BREAKER RUN

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.19

CONSTRUCTION DETAILS
C.T.H. "00" FOR OUTAGAMIE CO.

N

WB - EBS *

STA 650+00 - 684+00 (1' DEEP)

= BERNSTEN MONUMENT SET

APPLETON PACKING & GASKET INC.

18-INCH C.M.C.P., STA. 10+45 N. CONKEY ST., TO BE REMOVED

TEMPORARY LIMITED EASEMENT
PARCEL No. 120
OWNER: NORTHEAST INVESTMENT GROUP
A PARTNERSHIP: MARK W. DE YOUNG,
PARTNER: HUGH A. PROSSER, PARTNER

TEMPORARY LIMITED EASEMENT
PARCEL No. 118
OWNER: NORTHLAND INVESTMENT COMPANY

STA. 670+34
65' LT.

SLOPE INTERCEPT

CONCRETE CURB & GUTTER
30-INCH, TYPE "A" REQ'D.

EXISTING DRIVEWAY TO BE REMOVED

TYPE 1 CURB RAMP REQ'D. (TYP.)

SLOPED ISLAND NOSE

CONSTRUCTION R/L

P.T.=673+07.03

WESTBOUND

EASTBOUND

SOD REQ'D

NORTHLAND AVE. (C.T.H."00")

5" CONC. SIDEWALK

SURVEY T/L

CONCRETE CURB & GUTTER
18-INCH, TYPE "A" REQ'D.

SLOPE INTERCEPT

CONSTRUCTION R/L

STA. 675+68.26 C.T.H."00", SURVEY T/L=
STA. 10+00 S. CONKEY ST.

3" NON-METALLIC CONDUIT (TYP.)

CONKEY ST.

MATCH 8+25

SAW CUT REQ'D

CONC. DITCH

CITY OF APPLETON EASEMENT AREA

EB - EBS *

STA 657+00 - 672+00 (1' DEEP)
STA 673+35 - 675+75 (1' DEEP)

ENDWALL 80A
12" R.C.A.E.
STA 672+80
55.5' RT.

CITY FURNISHED STREET LIGHTS

2.19

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.20

CONSTRUCTION DETAILS
C.T.H. "00" FOR OUTAGAMIE CO.

BERNSTEN MONUMENT SET

CITY OF APPLETON

STA. 676+08
116' LT.

TEMPORARY LIMITED EASEMENT
PARCEL No. 119
OWNER: RICHARD J. WOOD

STA. 676+33
116' LT.

STA. 676+33
75' LT.

STA. 675+75.24 C.T.H."00", SURVEY T/L=
STA. 10+00 N. CONKEY ST.

SAW CUT REQ'D.

MATCH 11+85

3" NON-METALLIC CONDUIT

18-INCH C.M.C.P., STA. 678+00 LT.
TO BE REMOVED

18-INCH C.M.C.P., STA. 679+80 LT.
TO BE REMOVED

18-INCH C.M.C.P., STA. 680+80 LT.
TO BE REMOVED

TEMPORARY LIMITED EASEMENT
PARCEL No. 122
OWNER: CITY OF APPLETON

TEMPORARY LIMITED EASEMENT
PARCEL No. 123
OWNER: CLARK H. HANSEN

TEMPORARY LIMITED EASEMENT
PARCEL No. 124
OWNER: CLARK H. HANSEN

TEMPORARY LIMITED EASEMENT
PARCEL No. 126
OWNER: JOHN HRICIK

CONCRETE CURB & GUTTER
18-INCH, TYPE "A" REQ'D.

CONCRETE CURB & GUTTER
30-INCH, TYPE "A" REQ'D.

SLOPE INTERCEPT

20' CURB OPENING

CONSTRUCTION R/L

NORTHLAND AVE. (C.T.H."00")

WESTBOUND

EASTBOUND

5" CONC. SIDEWALK

SURVEY T/L

SAWED 180°00'00" IN CONC.

SLOPED ISLAND NOSE

TYPE 1 CURB RAMP REQ'D. (TYP.)

3" NON-METALLIC CONDUIT

STA. 676+49
65' RT.

TEMPORARY LIMITED EASEMENT
PARCEL No. 121
OWNER: ROBERT MOSHER

STA. 676+12
130' RT.

3" NON-METALLIC CONDUIT (TYP.)

CONKEY ST.

JACOB ST.

CITY FURNISHED STREET LIGHTS

24-INCH R.C.C.P., STA. 678+80
TO BE REMOVED

12-INCH R.C.C.P., STA. 678+80 RT.
TO BE PLUGGED

SHED

HSE

GAR

2.20

EBS - BACKFILLED WITH SAS FABRIC AND BREAKER RUN

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.21

CONSTRUCTION DETAILS FOR C.T.H. "00" OUTAGAMIE CO.

WB - EBS

STA 650+00 - 684+00 (1' DEEP)

N

GAR

TEMPORARY LIMITED EASEMENT PARCEL No. 124 OWNER: CLARK H. HANSEN

18-INCH C.M.C.P., STA. 680+80 LT. TO BE REMOVED

15-INCH C.M.C.P., STA. 682+00 LT. TO BE REMOVED

HSE

P/L

GAR

6"R.C.C.P.

HSE

TEMPORARY LIMITED EASEMENT PARCEL No. 126 OWNER: JOHN HRICIK

TEMPORARY LIMITED EASEMENT PARCEL No. 127 OWNER: MICHAEL ANIOL

TEMPORARY LIMITED EASEMENT PARCEL No. 128 OWNER: CITY OF APPLETON

TEMPORARY LIMITED EASEMENT PARCEL No. 129 OWNER: SYLVESTER BROCKMAN

STA. 683+70 75' LT.

END OF PROJECT STA. 684+00

CONCRETE CURB & GUTTER 18-INCH, TYPE "A" REQ'D.

R/W

(GRAV.)

G

20' CURB OPENING

92

CONSTRUCTION R/L

742.54 742.78 12' 742.89 743.13 743.19 743.43 743.43 743.67 743.61 743.85 743.73 743.97 743.80 744.04 743.82 744.06

15"C.M.C.P.

742.54 12' WESTBOUND 742.89 93 743.19 743.43 743.61 743.73 743.80 743.82

179°03'58"

742.74 12.5' 681 743.09 743.39 682 743.63 743.81 683 CITY CONDUIT RUN FOR FUTURE USE 684 685 686

742.54 742.78 12' EASTBOUND 742.89 743.13 94 743.19 743.43 743.43 743.67 743.61 743.85 743.73 743.97 743.80 744.04 743.82 744.06

742.54 12' 742.89 743.19 743.43 743.61 743.73 743.80 743.82

NORTHLAND AVE. (C.T.H."00")

95

96

SURVEY T/L

CONSTRUCTION R/L

SLOPED ISLAND NOSE

CONSTRUCTION LIMITS

T

R/W

CONCRETE CURB & GUTTER 30-INCH, TYPE "A" REQ'D.

EB - EBS

STA 673+35 - 675+75 (1' DEEP)

STA 677+00 - 680+00 (1' DEEP)

STA. 683+34 90' RT.

TEMPORARY LIMITED EASEMENT PARCEL No. 131 OWNER: THOMAS K STAEVEN

STA. 684+57 90' RT.

CHRISTINA ST.

GAR

HSE

HSE

HSE

2.21

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.22

CONSTRUCTION DETAILS
C.T.H. "E" FOR OUTAGAMIE CO.

N

BLDG

(ASPH.)

LONGVIEW DR.

STA. 2+67
43' LT.

P.I. 2+80 SURVEY T/L=
NB R/L, ANGLE = 182°15'42"
SB R/L, ANGLE = 178°54'38"

TEMPORARY LIMITED EASEMENT
PARCEL No. 132
OWNER: COMMUNITY FIRST CREDIT UNION

SLOPE INTERCEPT

STA. 6+60
53' LT.

P.I. 6+21.83 SURVEY T/L,
6.5' LT., ANGLE = 181°05'22"

MATCH 2+80

SURVEY T/L

CONSTRUCTION R/L

SAW CUT REQ'D.

36' CURB OPENING

TIE INTO EXISTING 54" STORM SEWER

SAW CUT REQ'D.

R/W

WS

MH

8"W

27"SAN

BALLARD RD.

SOUTHBOUND
NORTHBOUND

180°00'00"

89°42'52"

+59.73

+21.83

9.42 R

12"W

8"W

WV

SAW CUT REQ'D.

CONCRETE CURB & GUTTER
30-INCH, TYPE "A" REQ'D.

SLOPE INTERCEPT

CONSTRUCTION R/L

28' CURB OPENING

24' CURB OPENING

P.I. 6+21.83 SURVEY T/L,
13.5'RT., ANGLE = 177°44'18"

STA. 7+01.02 C.T.H."E"=
STA. 10+00 LONGVIEW DR.

P/L

CITY FURNISHED
STREET LIGHT

2.22

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.23

CONSTRUCTION DETAILS FOR C.T.H. "E" OUTAGAMIE CO.

LONGVIEW DR. (CONC.)

CAR WASH

BAXTON, ONEIL & HELLESTAD INSURANCE

TEMPORARY LIMITED EASEMENT PARCEL No. 133 OWNER: KEITH M. BUXTON

BURGER KING

STA. 6+60 53' LT.

SAW CUT REQ'D.

MATCH 9+42.30

TYPE 1 CURB RAMP REQ'D. (TYP.)

SLOPE INTERCEPT (ASPH.)

CONCRETE CURB & GUTTER 18-INCH, TYPE "A" REQ'D.

STA. 9+70 C.T.H."E", SURVEY T/L= STA. 645+95.72 C.T.H."OO", SURVEY T/L

CONSTRUCTION R/L

TIE INTO EXISTING 54" STORM SEWER

BALLARD RD.

SOUTHBOUND

NORTHBOUND

5" CONC. SIDEWALK

TYPE 1 CURB RAMP REQ'D (TYP.)

SURVEY T/L

SLOPE INTERCEPT

TYPE 2 CURB RAMP REQ'D. (TYP.)

STA. 11+54 60' LT.

SAW CUT REQ'D.

P.I. 9+69.95 C.T.H."E", SURVEY T/L, 6.5'LT., ANGLE = 179°45'01"

(C.T.H. "E")

(CONC.) 5" CONC. SIDEWALK

SLOPED ISLAND NOSE

CONCRETE CURB & GUTTER 30-INCH, TYPE "A" REQ'D.

SLOPED (TYP.) ISLAND NOSE

CONCRETE CURB & GUTTER 18-INCH, TYPE "A" REQ'D.

STA. 7+01.02 C.T.H."E"= STA. 10+00 LONGVIEW DR.

INLET 100
STA 6+94
46.2' RT.

STORM SEWER RUNS 98 TO 99B AND 103 TO 99 SHALL TIE DIRECTLY INTO 60-INCH STORM SEWER

TYPE 2 CURB RAMP REQUIRED (TYP.)

P.I. 9+70.03 SURVEY T/L, 13.5'RT., ANGLE = 179°45'01"

EASTBOUND

NORTHLAND AVE. (C.T.H. "OO")

CONSTRUCTION R/L

*NOTE: SEE CONSTRUCTION DETAIL DRAWINGS FOR TRAFFIC SIGNAL LAYOUT

(ASPH.)

2.23

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.24

CONSTRUCTION DETAILS
C.T.H. "E" FOR OUTAGAMIE CO.

NOTE: DRIVEWAY DIMENSIONS AND GRADES, STA. 13+00 LT., TO BE VERIFIED WITH OUTAGAMIE COUNTY HIGHWAY DEPT.

EXISTING DRIVEWAYS AT STA. 11+90 LT. AND STA. 12+60 LT. TO BE REMOVED.

N

BAXTON, ONEIL & HELLESTAD INSURANCE

TEMPORARY LIMITED EASEMENT
PARCEL No. 133
OWNER: KEITH M. BUXTON

STA. 11+54
60' LT.

SAW CUT REQ'D. (ASPH.)

SLOPE INTERCEPT

30' CURB OPENING

104

MATCH 13+74.52

SAW CUT SIGN REQ'D.

HSE

(ASPH.)

(CONC.)

R/W

749.17 749.55 749.83 749.41 749.65 749.89 750.25 750.55 750.24 750.72 751.01

104A

CONSTRUCTION R/L

SURVEY T/L

SOUTHBOUND 750.85 751.22 751.45 750.95 750.65 750.01 749.65

SAW CUT REQ'D.

12"W

WV

27"SAN

MH

16

749.89 750.25 750.55 NORTHBOUND 750.85 751.02 751.22 751.45 751.71 752.31 752.96 753.29

BALLARD RD.

48"SS

752.85

105A 105 751.01 750.72 751.24 751.86 752.52 750.37 750.07 749.77 749.65 749.41

35' CURB OPENING

SIGN

CONSTRUCTION R/L

SAW CUT REQ'D.

P.I. 15+25.00 SURVEY T/L, 6.5'RT., ANGLE = 182°00'16" MATCH EXISTING

HIGH PRESSURE GAS

CONCRETE CURB & GUTTER 18-INCH, TYPE "A" REQ'D.

CONCRETE CURB & GUTTER 30-INCH, TYPE "A" REQ'D.

+35.63

SLOPE INTERCEPT

SLOPED ISLAND NOSE

(ASPH.)

SAW CUT REQ'D.

P.I. 13+25.00 SURVEY T/L, 13.5'RT., ANGLE = 177°59'44"

STA. 13+18
57' RT.

STA. 15+21
57' RT.

CANOPY

BLDG.

E

P/L

G

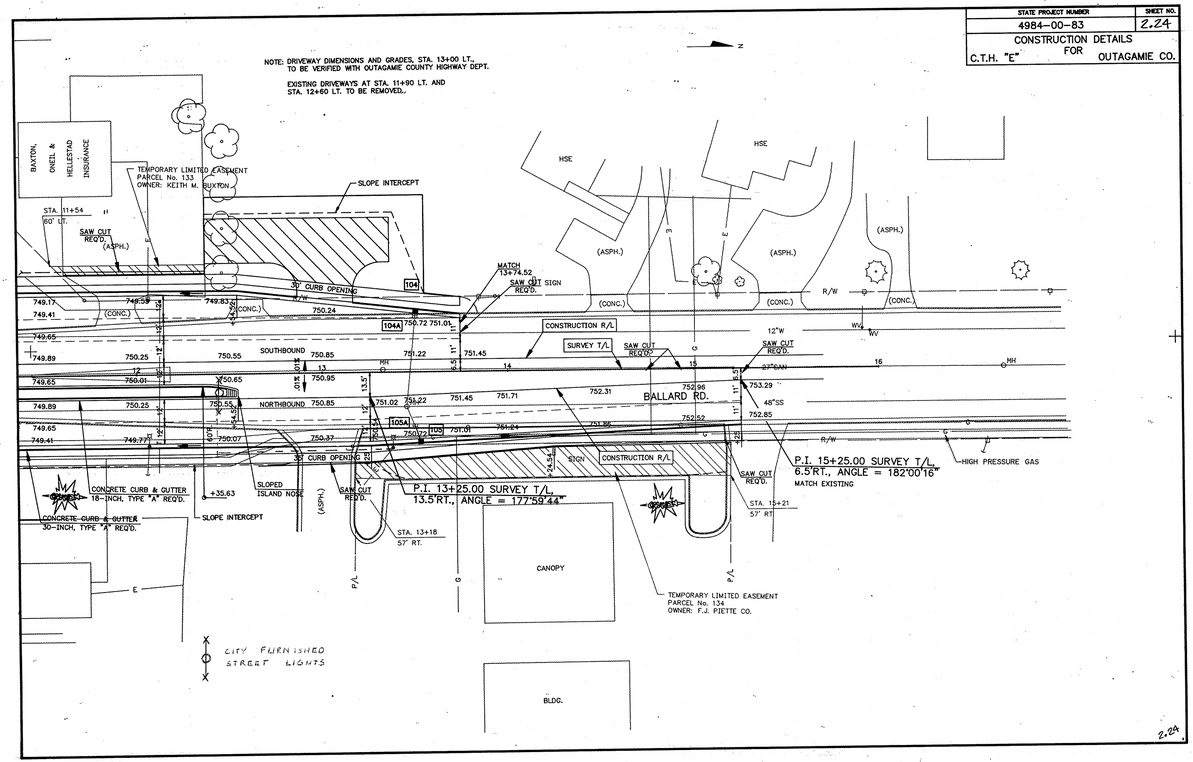
TEMPORARY LIMITED EASEMENT
PARCEL No. 134
OWNER: F.J. PIETTE CO.

CITY FURNISHED STREET LIGHTS

2.24

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.24

CONSTRUCTION DETAILS
C.T.H. "E" FOR OUTAGAMIE CO.

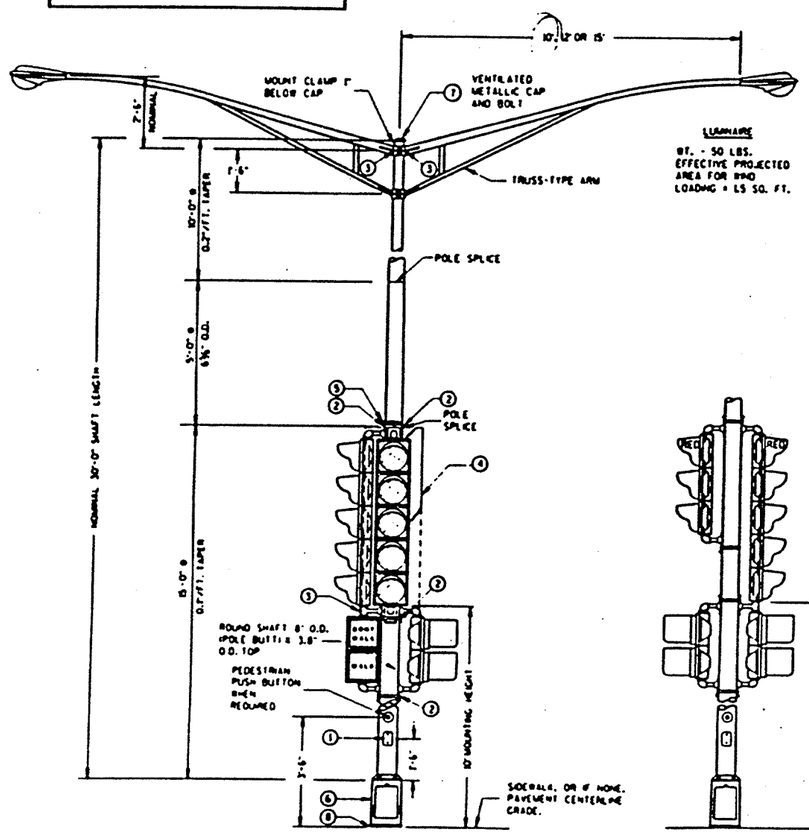


STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.25A
TRAFFIC SIGNAL DETAIL	

ADDENDUM TO SHEET 2.25

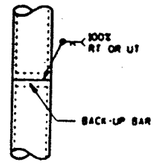
DESIGN NOTE: (WILL NOT APPEAR ON CONTRACT PLANS)

USE THIS DETAIL FOR LIGHTING AND SIGNAL FACES.
DO NOT USE WITH TROMBONE ARM.

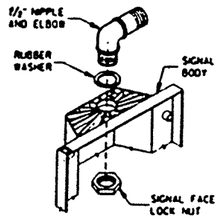


(MAXIMUM LOAD)

WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.1-88. RECORDS OF CERTIFICATION OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO THE SHIPMENT OF THE POLES. VERIFICATION AND APPROVAL OF THE TESTING CERTIFICATION FROM THE MANUFACTURER SHALL BE COMPLETED BY THE CENTRAL OFFICE BRIDGE SECTION.



POLE SPLICE DETAIL



SIGNAL FACE MOUNTING DETAIL

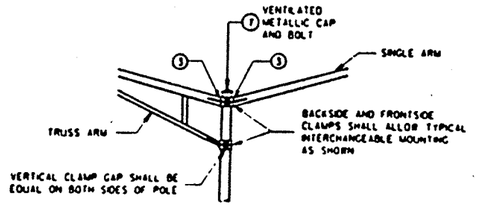
GENERAL NOTES

THE POLE USED IN THE TYPE 4 MOUNTING CONFIGURATION SHALL BE INTERCHANGEABLE WITH, AND MEET THE LOADING REQUIREMENTS OF A TYPE 3 POLE.

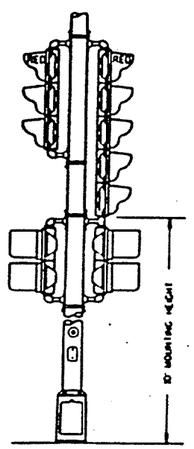
ALL LUMINAIRE POLE MOUNTINGS SHALL BE DESIGNED FOR THEIR 15' ARMS WITH LUMINAIRES.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

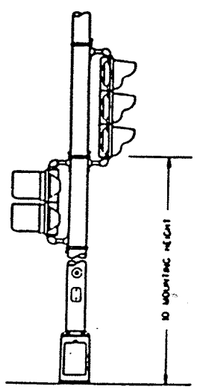
1. 4" X 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ½" X ⅜" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.
2. SIGNAL FACE MOUNTING BRACKETS, MOUNT WITH CAP SCREWS AND BANDING. (SEE SPECIAL PROVISIONS).
3. GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.
4. VERTICAL MOUNTED SIGNAL FACES WITH BACKBOARDS REQUIRED ARE LOCATED AS SHOWN ON THE PLANS. BACKBOARDS ARE REQUIRED TO SURROUND SIGNAL FACES. BACKBOARDS SHALL EXTEND 5" BEYOND EXTREMITIES OF SIGNAL FACE.
5. POLE MOUNTED SIGNAL FACES SHALL REQUIRE 1 OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.
6. CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.
7. FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY CAPS. FASTEN CAPS WITH ONE (1) ½" X ⅜" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.
8. SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.



INTERCHANGEABLE MOUNTING DETAIL



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE

TYPE 4 POLE MOUNTING CONFIGURATION

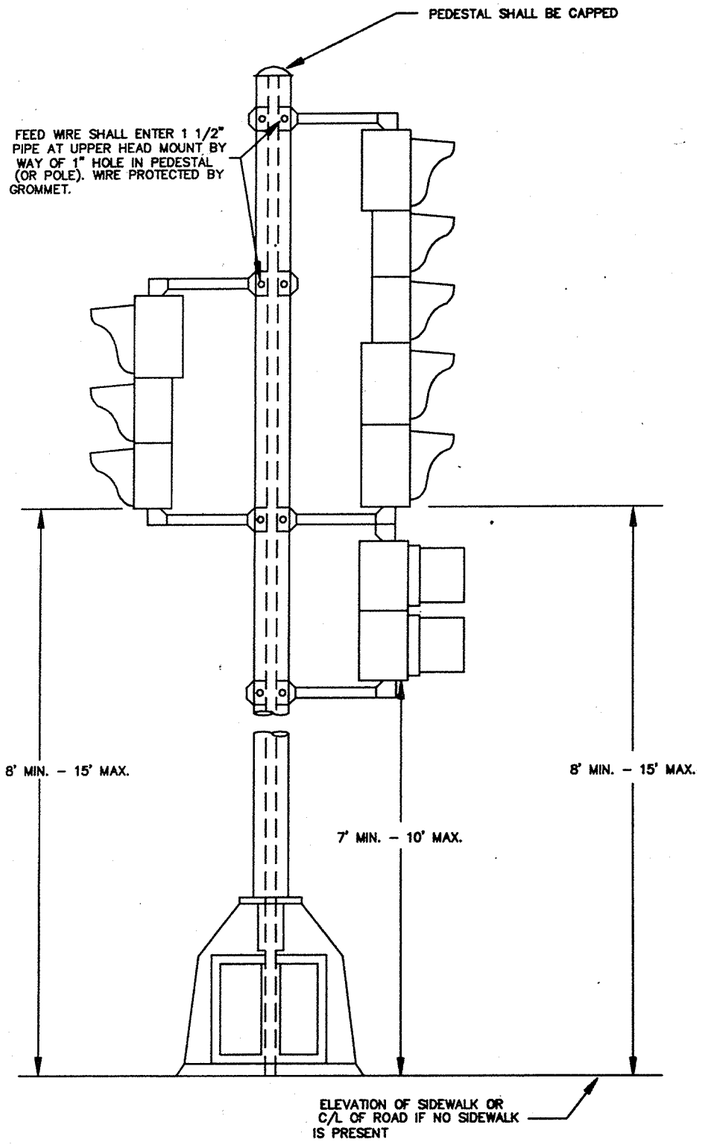
NOTE:
SHEET SCD 9.8 11.20.15 IS REQUIRED WHEN THIS DRAWING IS CALLED FOR IN THE PLANS.

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 4

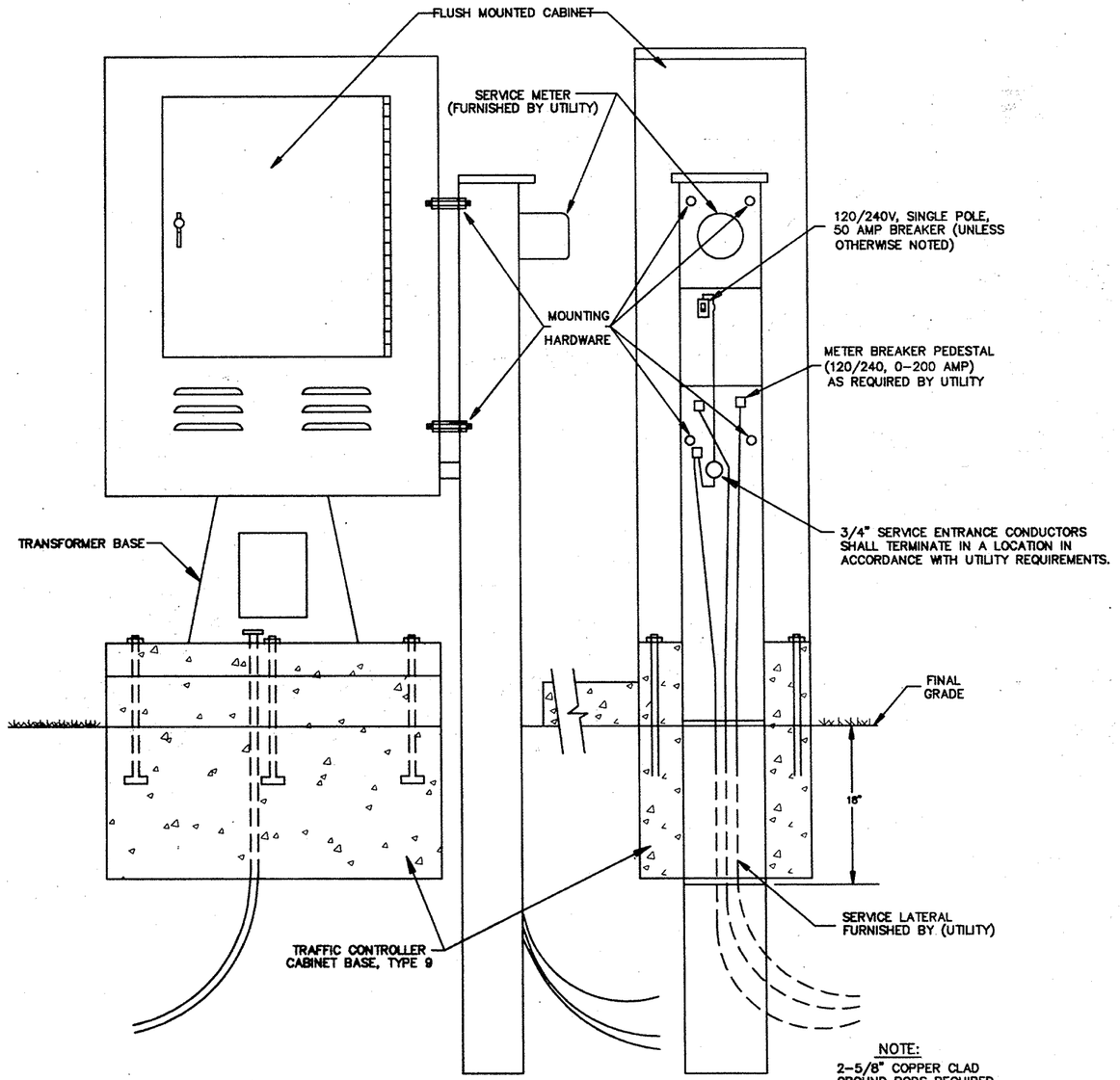
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.25

TRAFFIC SIGNAL DETAILS



TYPICAL MOUNTING DETAIL
ADJUST TO CONDITION SHOWN ON THE PLAN
TRAFFIC SIGNAL STANDARD



TRAFFIC CONTROLLER CABINET
SERVICE INSTALLATION

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.26

TRAFFIC CONTROL SIGNALS
CTH OO AT BALLARD ROAD

PULL BOX CHANGES

PB4 STA 8+57 2.5' LT
PB8 STA 647+15 2.5' RT
PB14 STA 10+30 9.5' RT
PB17 STA 645+82 9.5' LT

SIGNAL BASE RELOCATION

B1 STA 9+10 64.5' RT
B3 STA 10+47 9.5' RT.
D2 STA 3+06 51.5' LT.

TRAFFIC SIGNAL BASES CHANGED TO TYPE 2

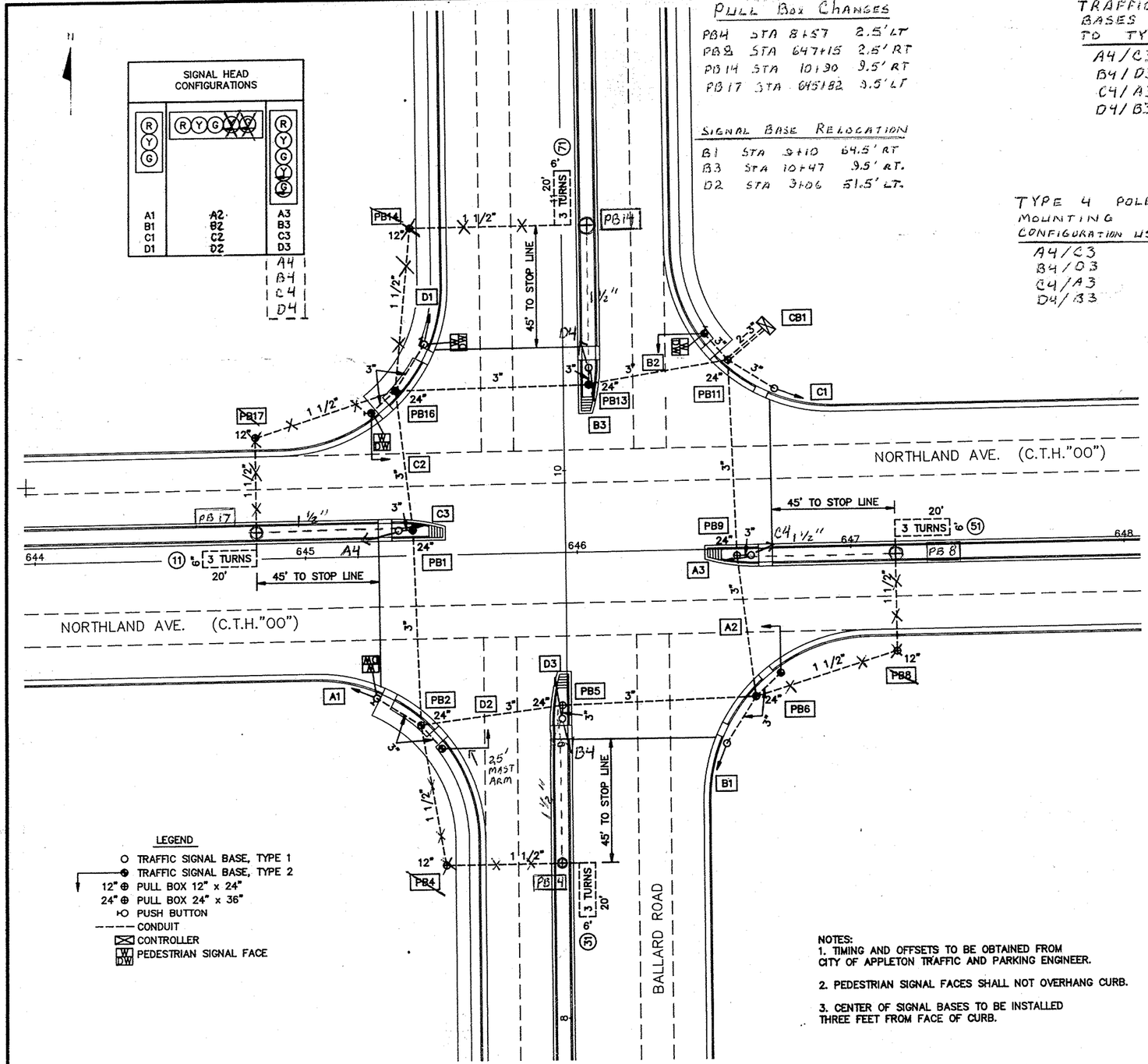
A4/C3
B4/D3
C4/A3
D4/B3

TYPE 4 POLE MOUNTING CONFIGURATION USED

A4/C3
B4/D3
C4/A3
D4/B3

SIGNAL HEAD CONFIGURATIONS

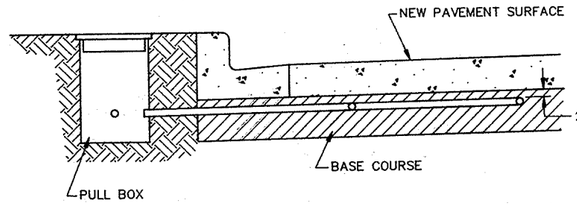
A1	A2	A3
B1	B2	B3
C1	C2	C3
D1	D2	D3
		A4
		B4
		C4
		D4



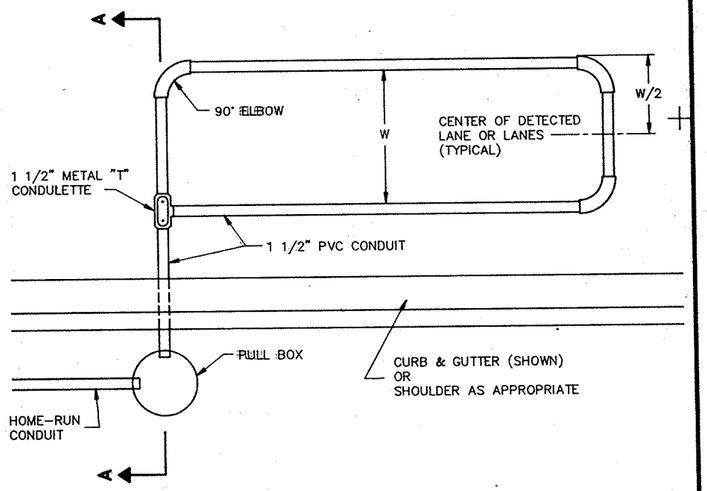
LEGEND

- TRAFFIC SIGNAL BASE, TYPE 1
- TRAFFIC SIGNAL BASE, TYPE 2
- 12" PULL BOX 12" x 24"
- 24" PULL BOX 24" x 36"
- PUSH BUTTON
- CONDUIT
- CONTROLLER
- PEDESTRIAN SIGNAL FACE

NOTES:
1. TIMING AND OFFSETS TO BE OBTAINED FROM CITY OF APPLETON TRAFFIC AND PARKING ENGINEER.
2. PEDESTRIAN SIGNAL FACES SHALL NOT OVERHANG CURB.
3. CENTER OF SIGNAL BASES TO BE INSTALLED THREE FEET FROM FACE OF CURB.



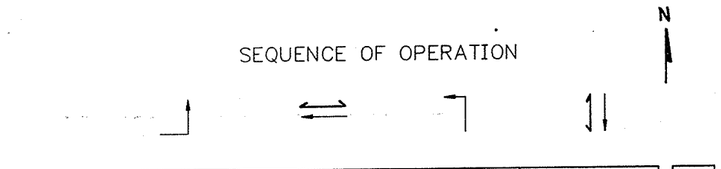
SECTION A-A



TYPICAL PLAN OF DETECTOR LOOP

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.27
TRAFFIC CONTROL SIGNALS CTH 00 AT BALLARD ROAD	

SEQUENCE OF OPERATION



	HEAD NUMBERS	#1 R/W	#1 CLEAR TO *	#1 CLEAR TO **	#1	#2 R/W	#2 CLEAR TO *	#2 CLEAR TO **	#2	#3 R/W	#3 CLEAR TO *	#3 CLEAR TO **	#3	#4 R/W	#4 CLEAR TO *	#4 CLEAR TO **	#4	FLASH
Ø1	A2,A3	G	Y	–		–	–	–		–	–	–		–	–	–		–
Ø2	C1,C2,C3	R	R	R		G	Y	R		R	R	R		R	R	R		R
Ø3	B2,B3	–	–	–		–	–	–		G	Y	–		–	–	–		
Ø4	D1,D2,D3	R	R	R		R	R	R		R	R	R		G	Y	R		R
Ø5	C2,C3	–	–	–		–	–	–		–	–	–		–	–	–		–
Ø6	A1,A2,A3	R	R	R		R	R	R		R	R	R		R	R	R		R
Ø7	D2,D3	–	–	–		–	–	–		–	–	–		–	–	–		–
Ø8	B1,B2,B3	R	R	R		R	R	R		R	R	R		R	R	R		R
	ø2 PED	DW	DW	DW		*	*	DW		DW	DW	DW		DW	DW	DW		
	ø4 PED	DW	DW	DW		DW	DW	DW		DW	DW	DW		*	*	DW		

	HEAD NUMBERS	#5 R/W	#5 CLEAR TO *	#5 CLEAR TO **	#5	#6 R/W	#6 CLEAR TO *	#6 CLEAR TO **	#6	#7 R/W	#7 CLEAR TO *	#7 CLEAR TO **	#7	#8 R/W	#8 CLEAR TO *	#8 CLEAR TO **	#8
Ø1	A2,A3	–	–	–		–	–	–		–	–	–		–	–	–	
Ø2	C1,C2,C3	R	R	R		R	R	R		R	R	R		R	R	R	
Ø3	B2,B3	–	–	–		–	–	–		–	–	–		–	–	–	
Ø4	D1,D2,D3	R	R	R		R	R	R		R	R	R		R	R	R	
Ø5	C2,C3	G	Y	–		–	–	–		–	–	–		–	–	–	
Ø6	A1,A2,A3	R	R	R		G	Y	R		R	R	R		R	R	R	
Ø7	D2,D3	–	–	–		–	–	–		G	Y	–		–	–	–	
Ø8	B1,B2,B3	R	R	R		R	R	R		R	R	R		G	Y	R	
	ø2 PED	DW	DW	DW		DW	DW	DW		DW	DW	DW		DW	DW	DW	
	ø4 PED	DW	DW	DW		DW	DW	DW		DW	DW	DW		DW	DW	DW	

* WHEN CALLED TIMED STEADY WALK, FOLLOWED BY FLASHING DON'T WALK, THEN STEADY DON'T WALK

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1 BELOW)

CHART 1

PHASE ON	NON-CONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
ø1	5 OR 6	2,3,4,7,8
ø2	5 OR 6	1,3,4,7,8
ø3	7 OR 8	1,2,4,5,6
ø4	7 OR 8	1,2,3,5,6
ø5	1 OR 2	3,4,6,7,8
ø6	1 OR 2	3,4,5,7,8
ø7	3 OR 4	1,2,5,6,8
ø8	3 OR 4	1,2,5,6,7

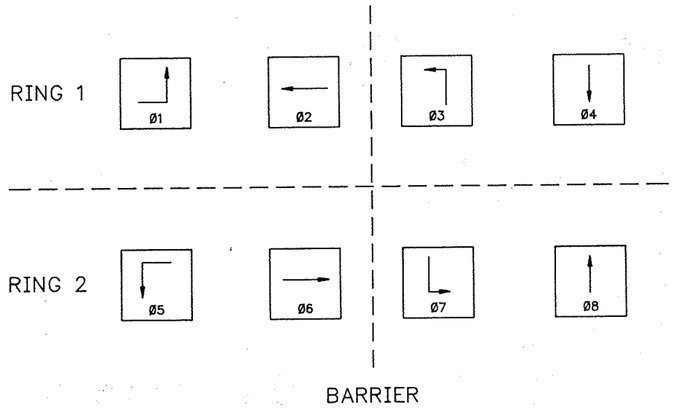
DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT	CALLING DELAY	EXTENSION STRETCH
11	1	X			1	1			
31	2	X			3	3			
51	3	X			5	5			
71	4	X			7	7			

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY	PHASE TERMINATION	PHASE RECALL
1	–	W/6		
2	X	W/6		MAX
3	–	W/8		
4	X	W/8		MAX
5	–	W/2		
6	X	W/2		MAX
7	–	W/4		
8	X	W/4		MAX

OVERLAPS



NOTES:
1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NON-CONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL (SEE CHART AT LEFT).
3. DETECTORS ARE MOTORCYCLE SENSITIVE.
4. WHEN PHASES 2 & 6 OR 4&8 ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.20
TRAFFIC CONTROL SIGNALS CTH OO AND ROEMER ROAD	

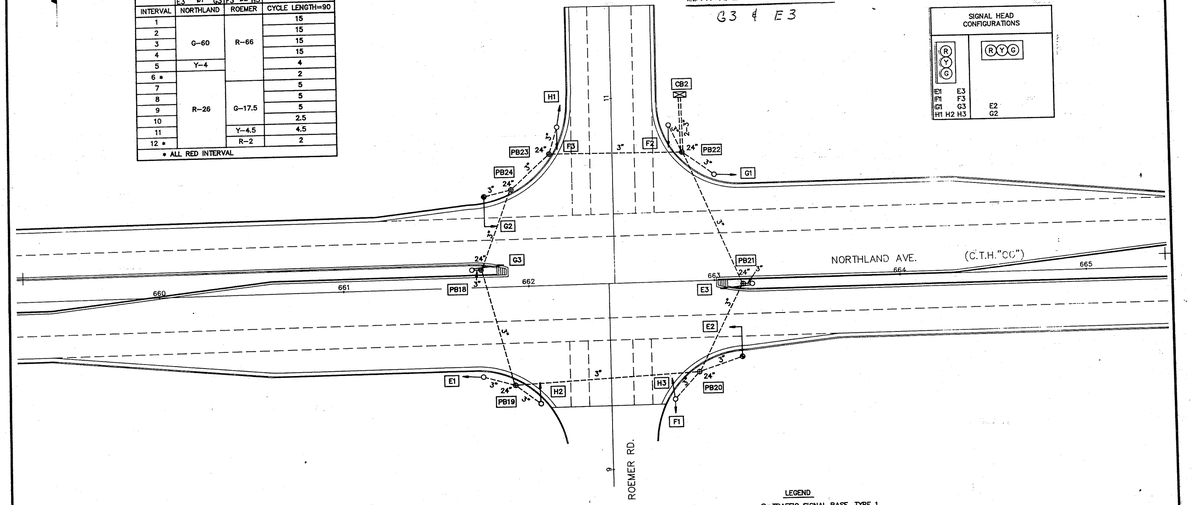
TRAFFIC SIGNAL BASES CHANGED TO TYPE 2 — — — AND — — — — TYPE 4 POLE MOUNTING CONFIGURATION USED

G3 & E3

N

TIMING CHART			
E1 E2 E3 — G1 G2 G3 — P1 P2 P3 — H1 H2 H3 — B1 B2 B3			SECONDS
INTERVAL	NORTHLAND	ROEMER	CYCLE LENGTH=90
1	G-60	R-66	15
2			15
3			15
4			15
5	Y-4		4
6 *			2
7	R-26	G-17.5	5
8			5
9			5
10			2.5
11		Y-4.5	4.5
12 *		R-2	2
* ALL RED INTERVAL			

SIGNAL HEAD CONFIGURATIONS



LEGEND

- ○ TRAFFIC SIGNAL BASE, TYPE 1
- ● TRAFFIC SIGNAL BASE, TYPE 2
- 12" ⊕ PULL BOX 12" x 24"
- 24" ⊕ PULL BOX 24" x 36"
- ○ PUSH BUTTON
- CONDUIT
- CONTROLLER
- PEDESTRIAN SIGNAL FACE

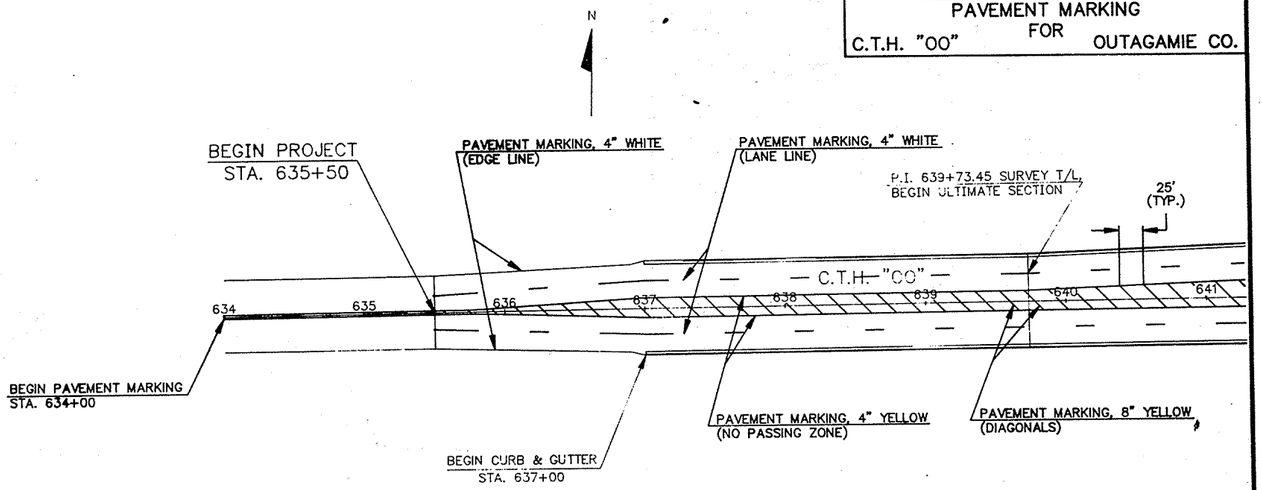
NOTES:
1. TIMING TO BE VARIFIED WITH CITY OF APPLETON TRAFFIC AND PARKING ENGINEER.

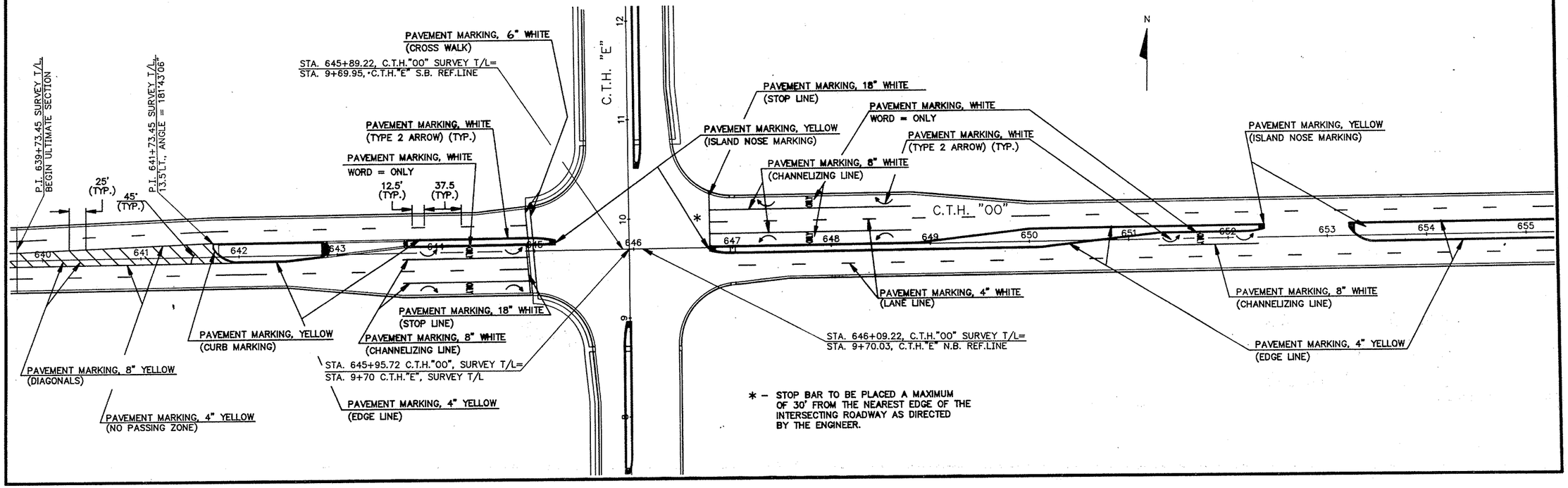
2. CENTER OF SIGNAL BASES TO BE INSTALLED THREE FEET FROM FACE OF CURB.

3. OFFSETS TO BE OBTAINED FROM CITY OF APPLETON TRAFFIC AND PARKING ENGINEER.

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.29

PAVEMENT MARKING
FOR
C.T.H. "00" OUTAGAMIE CO.

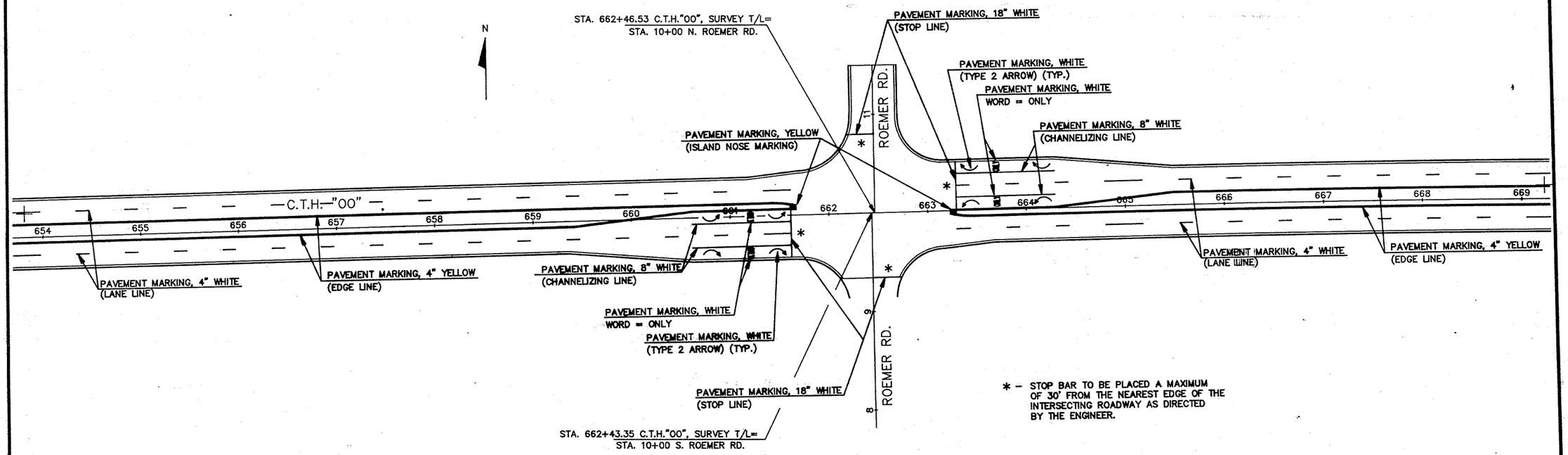




* – STOP BAR TO BE PLACED A MAXIMUM OF 30' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY AS DIRECTED BY THE ENGINEER.

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.30

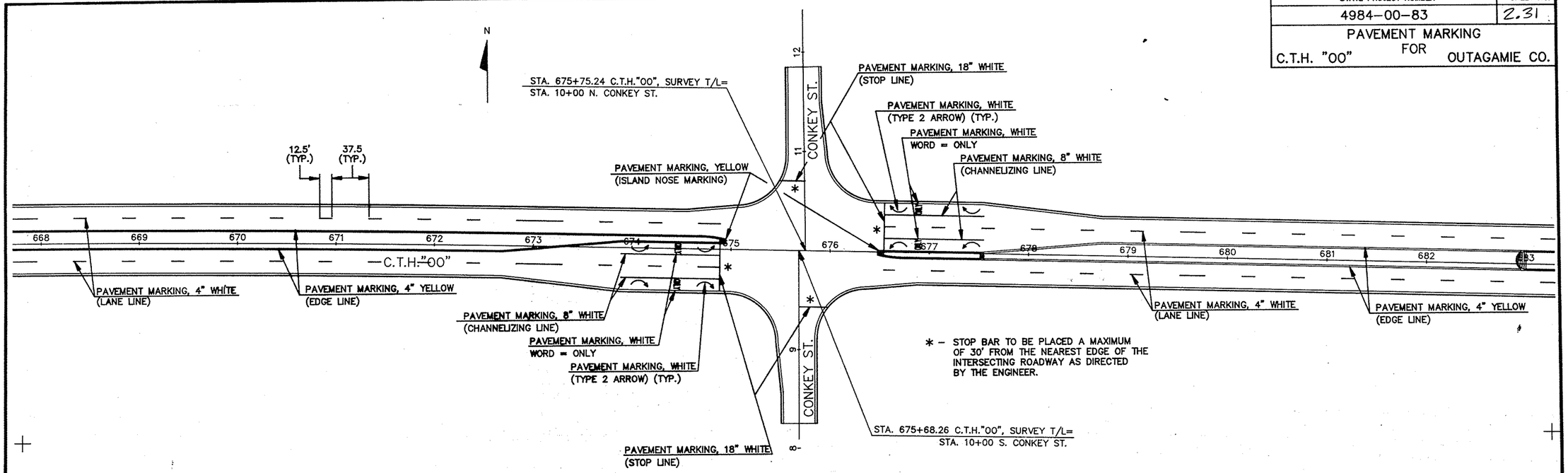
PAVEMENT MARKING
C.T.H. "00" FOR OUTAGAMIE CO.

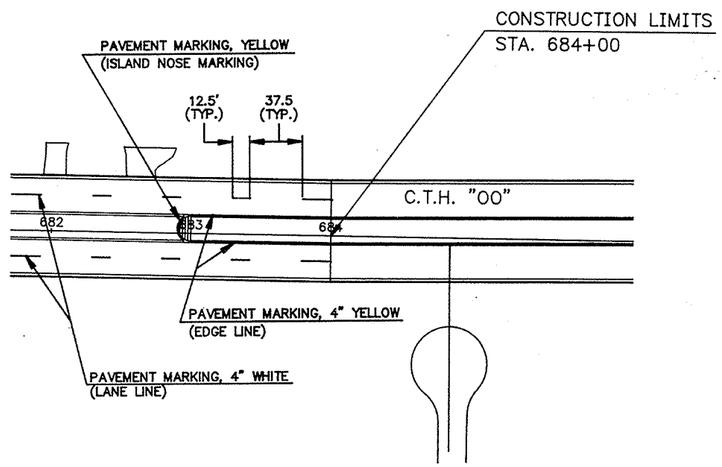


* – STOP BAR TO BE PLACED A MAXIMUM OF 30' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY AS DIRECTED BY THE ENGINEER.

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.31

PAVEMENT MARKING
FOR
C.T.H. "00" OUTAGAMIE CO.





STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.32

PAVEMENT MARKING FOR C.T.H. "E" OUTAGAMIE CO.

N

BALLARD RD.

LONGVIEW DR.

(C.T.H. "OO")

(C.T.H. "E")

NORTHLAND AVE.

P.I. 2+80 SURVEY T/L=
NB R/L, ANGLE = 182°15'42"
SB R/L, ANGLE = 178°54'38"

12.5' (TYP.)

37.5 (TYP.)

PAVEMENT MARKING, 18" WHITE (STOP LINE)

P.I. 6+21.83 SURVEY T/L
6.5' LT., ANGLE = 181°05'22"

25' (TYP.)

45° (TYP.)

PAVEMENT MARKING, 4" WHITE (LANE LINE)

PAVEMENT MARKING, 4" YELLOW (NO PASSING)

PAVEMENT MARKING, 8" YELLOW (DIAGONALS)

P.I. 6+21.83 SURVEY T/L,
13.5'RT., ANGLE = 177°44'18"

STA. 9+70 C.T.H."E", SURVEY T/L=
STA. 645+95.72 C.T.H."OO", SURVEY T/L

PAVEMENT MARKING, 4" YELLOW (EDGE LINE)

PAVEMENT MARKING, YELLOW (ISLAND NOSE MARKING)

PAVEMENT MARKING, 8" WHITE (CHANNELIZING LINE)

PAVEMENT MARKING, WHITE WORD = ONLY

PAVEMENT MARKING, WHITE (TYPE 2 ARROW) (TYP.)

PAVEMENT MARKING, 18" WHITE (STOP LINE)

STA. 7+01.02 C.T.H."E"=
STA. 10+00 LONGVIEW DR.

P.I. 9+70.03 SURVEY T/L,
13.5'RT., ANGLE = 179°45'01"

PAVEMENT MARKING, 6" WHITE (CROSS WALK)

PAVEMENT MARKING, 18" WHITE (STOP LINE)

PAVEMENT MARKING, 8" WHITE (CHANNELIZING LINE)

P.I. 9+69.95 C.T.H."E", SURVEY T/L,
6.5'LT., ANGLE = 179°45'01"

25' (TYP.)

45° (TYP.)

120'

PAVEMENT MARKING, 4" YELLOW (LANE LINE)

PAVEMENT MARKING, 4" YELLOW (NO PASSING)

END PAVEMENT MARKING STA. 15+70

PAVEMENT MARKING, WHITE WORD = ONLY

PAVEMENT MARKING, WHITE (TYPE 2 ARROW) (TYP.)

PAVEMENT MARKING, 4" YELLOW (EDGE LINE)

PAVEMENT MARKING, YELLOW (ISLAND NOSE MARKING)

P.I. 13+25.00 SURVEY T/L,
13.5'RT., ANGLE = 177°59'44"

PAVEMENT MARKING, 8" YELLOW (DIAGONALS)

PAVEMENT MARKING, 4" WHITE (LANE LINE)

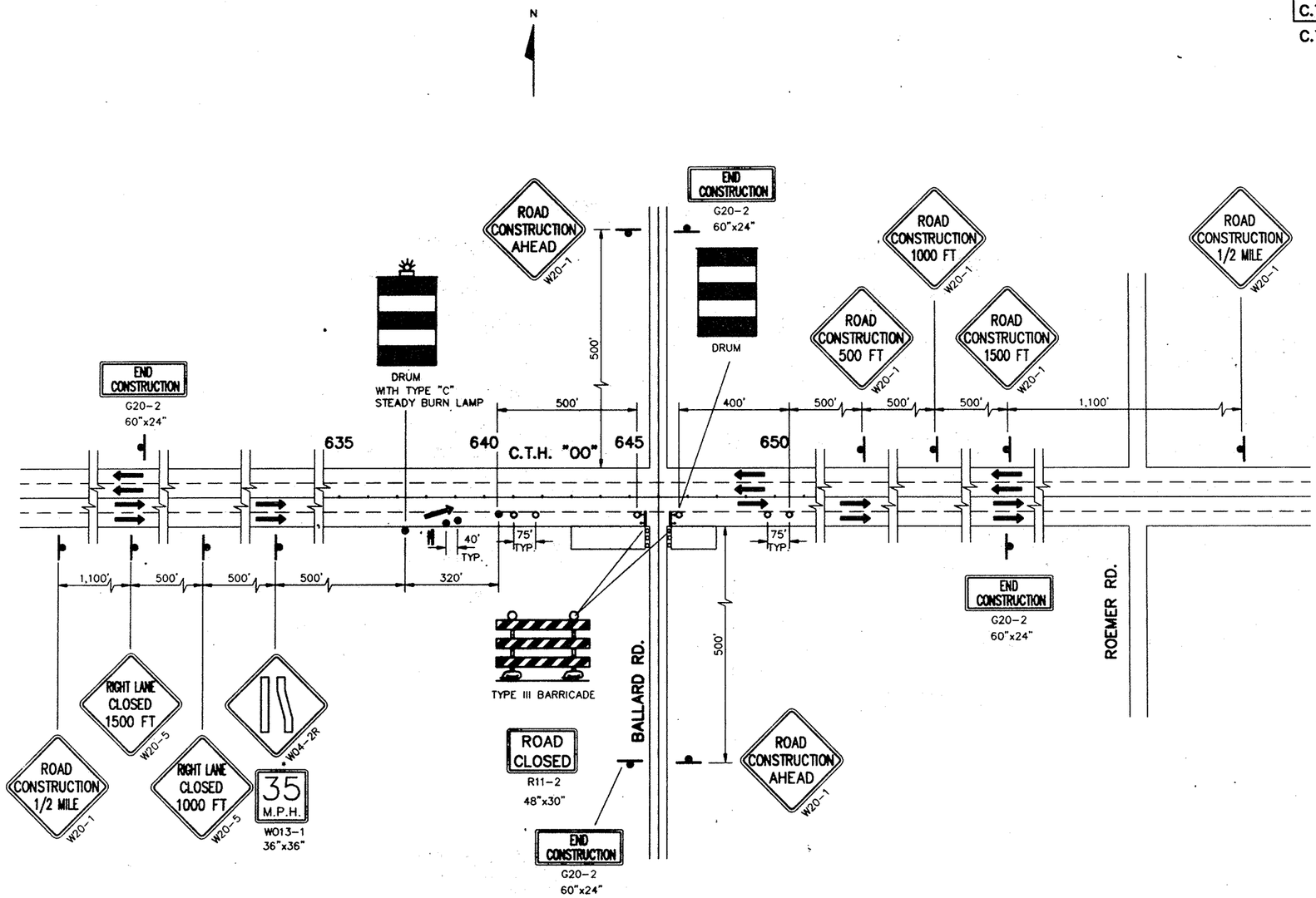
P.I. 15+25.00 SURVEY T/L,
6.5'RT., ANGLE = 182°00'16"

* – STOP BAR TO BE PLACED A MAXIMUM OF 30' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY AS DIRECTED BY THE ENGINEER.

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.33

TRAFFIC CONTROL DETAIL
FOR
C.T.H. "00" OUTAGAMIE CO.

C.T.H. "00" – STAGE 1



* – THIS SIGN TO BE COVERED WHENEVER STAGE 1 LANE CLOSURE IS NOT BEING UTILIZED. SEE SPECIAL PROVISIONS.

DETAILS NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE NUMBER OF TYPE III BARRICADES AND NON-METALLIC DRUMS SHOWN ARE APPROXIMATE AND THE NUMBER MAY CHANGE DEPENDING ON FINAL PLACEMENT.

ALL FLASHING ARROW BOARDS ARE TO BE EQUIPPED WITH DIMMERS.

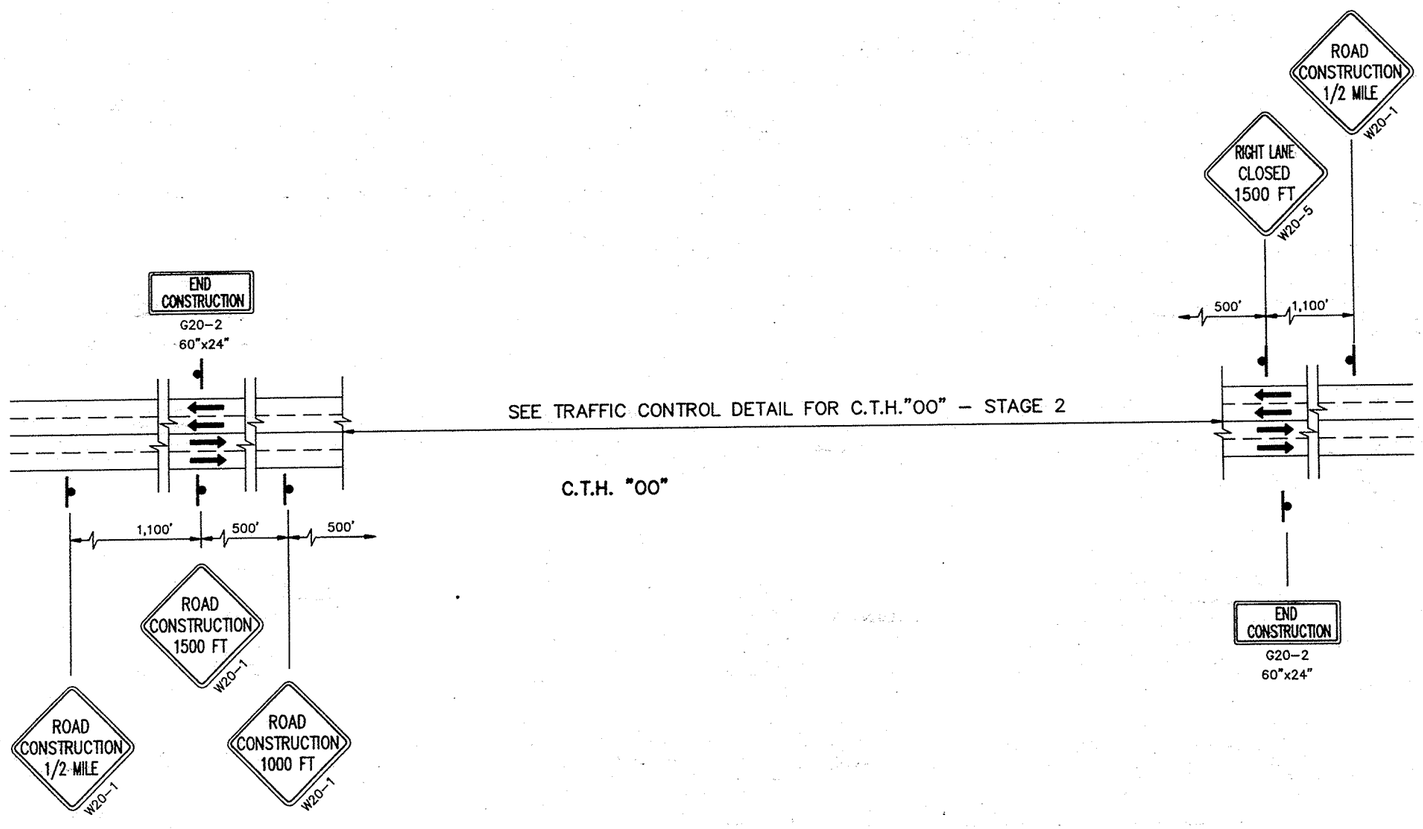
SYMBOLS

- WORK AREA
- DRUM
- DRUM WITH TYPE "C" STEADY BURN LAMP
- DIRECTION OF TRAFFIC FLOW
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE III BARRICADE WITH TYPE "A" WARNING LIGHTS
- 4'x8' FLASHING ARROW BOARD

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.34

TRAFFIC CONTROL DETAIL
C.T.H. "00" FOR OUTAGAMIE CO.

C.T.H. "00" – STAGE 2 APPROACHES



DETAILS NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE NUMBER OF TYPE III BARRICADES AND NON-METALLIC DRUMS SHOWN ARE APPROXIMATE AND THE NUMBER MAY CHANGE DEPENDING ON FINAL PLACEMENT.

ALL FLASHING ARROW BOARDS ARE TO BE EQUIPPED WITH DIMMERS.

SYMBOLS

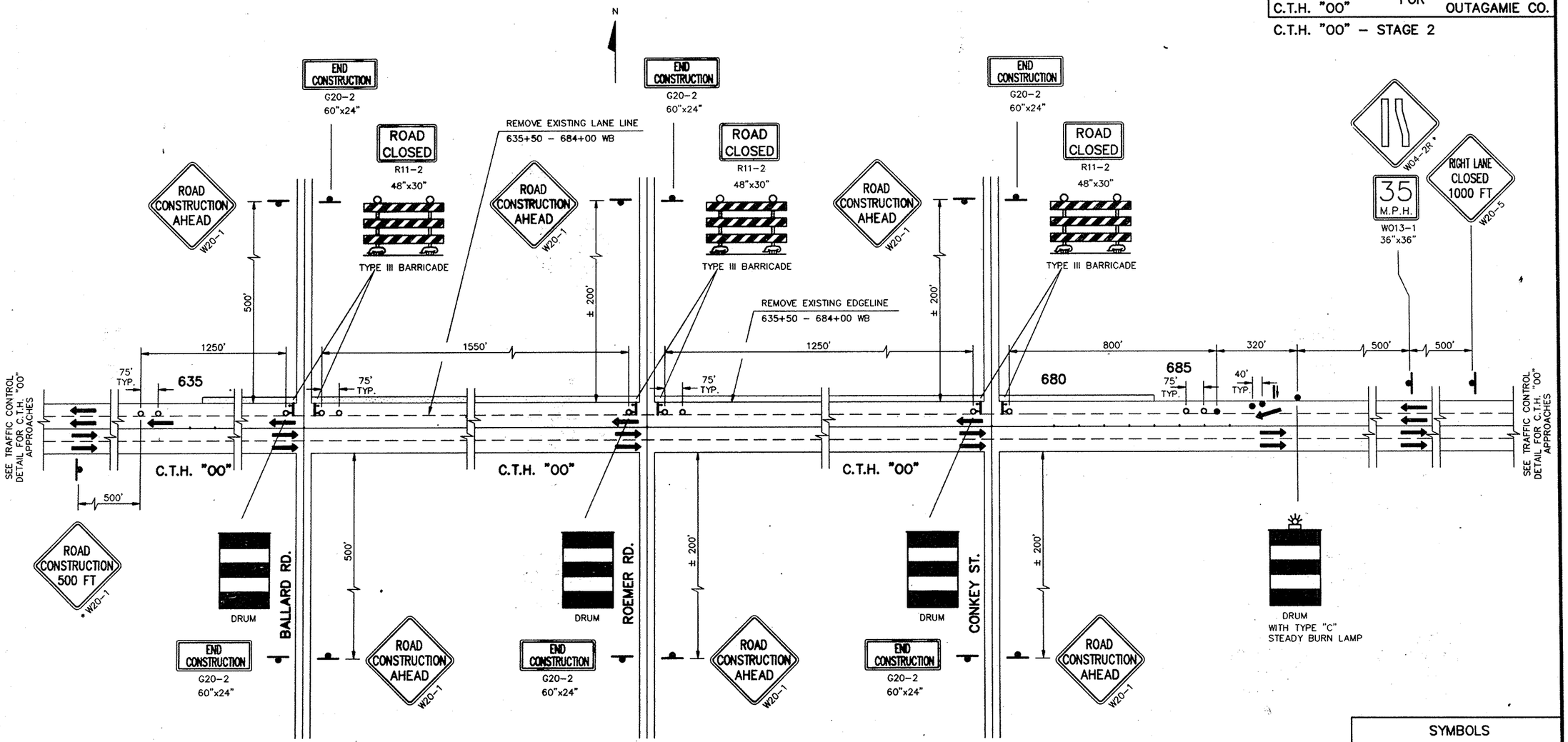
→ DIRECTION OF TRAFFIC FLOW

SIGN ON PORTABLE OR PERMANENT SUPPORT

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.35

TRAFFIC CONTROL DETAIL FOR C.T.H. "00" OUTAGAMIE CO.

C.T.H. "00" – STAGE 2



* – REPLACES



IN STAGE 1

* – THIS SIGN TO BE COVERED WHENEVER STAGE 2 LANE CLOSURE IS NOT BEING UTILIZED. SEE SPECIAL PROVISIONS.

DETAILS NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE NUMBER OF TYPE III BARRICADES AND NON-METALLIC DRUMS SHOWN ARE APPROXIMATE AND THE NUMBER MAY CHANGE DEPENDING ON FINAL PLACEMENT.

ALL FLASHING ARROW BOARDS ARE TO BE EQUIPPED WITH DIMMERS.

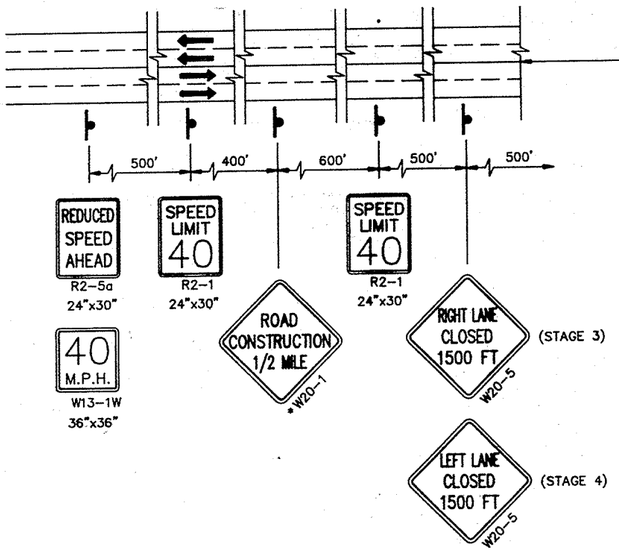
SYMBOLS

- WORK AREA
- DRUM
- DRUM WITH TYPE "C" STEADY BURN LAMP
- DIRECTION OF TRAFFIC FLOW
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE III BARRICADE WITH TYPE "A" WARNING LIGHTS
- 4'x8' FLASHING ARROW BOARD

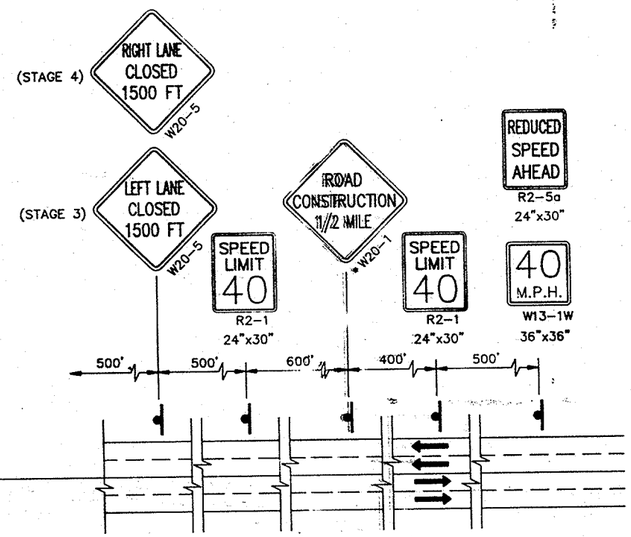
STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.36

TRAFFIC CONTROL DETAIL
C.T.H. "00" FOR OUTAGAMIE CO.

C.T.H. "00" – APPROACHES



SEE TRAFFIC CONTROL DETAIL FOR C.T.H."00" – STAGE 3, STAGE 4



* – SIGNS PLACED IN PRIOR STAGE

DETAILS NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE NUMBER OF TYPE III BARRICADES AND NON-METALLIC DRUMS SHOWN ARE APPROXIMATE AND THE NUMBER MAY CHANGE DEPENDING ON FINAL PLACEMENT.

ALL FLASHING ARROW BOARDS ARE TO BE EQUIPPED WITH DIMMERS.

SYMBOLS

DIRECTION OF TRAFFIC FLOW

SIGN ON PORTABLE OR PERMANENT SUPPORT

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.37

TRAFFIC CONTROL DETAIL FOR C.T.H. "00" OUTAGAMIE CO.

C.T.H. "00" – STAGE 3

N

END CONSTRUCTION G20-2 60"x24"

ROAD CONSTRUCTION AHEAD W20-1

3-12 VERTICAL SIGNAL FACES, 8 REQ'D. SEE TEMPORARY SIGNAL CONSTRUCTION DETAIL

REMOVE EXISTING LANE & EDGE LINES (TYP.)

TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW (NO PASSING ZONE) STAGE 3 CENTERLINE

W01-4L

35 M.P.H. W013-1 36"x36"

500'

DRUM

± 200'

W06-3

1000'

1550'

1250'

800'

820'

320'

500'

635

685

75' TYP.

REMOVE EXISTING DOUBLE YELLOW CENTERLINE

SEE TYPICAL DRUM LAYOUT FOR LANE CLOSURES

W01-4R

LEFT LANE CLOSED 1000 FT W20-5

W04-2L

SEE TRAFFIC CONTROL DETAIL FOR C.T.H. "00" APPROACHES

C.T.H. "00"

BALLARD RD.

*ROEMER RD.

*CONKEY ST.

TYPE III BARRICADE

** R3-2

ROAD CLOSED R11-2 48"x30"

END CONSTRUCTION G20-2 60"x24"

ROAD CONSTRUCTION AHEAD W20-1

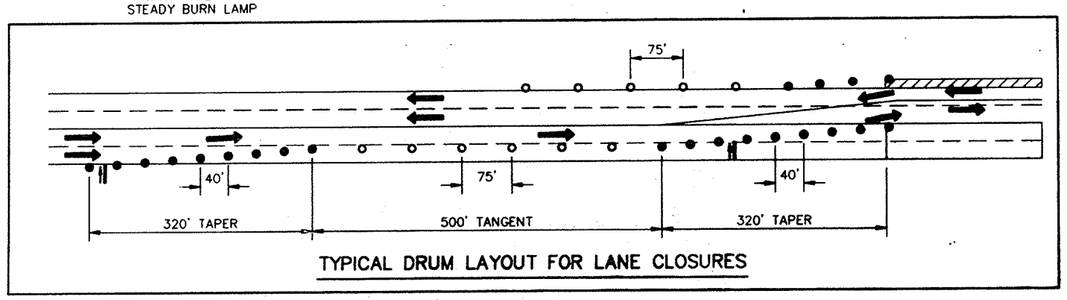
RIGHT LANE CLOSED 1000 FT W20-5

W04-2R

DRUM WITH TYPE "C" STEADY BURN LAMP

SEE TYPICAL DRUM LAYOUT FOR LANE CLOSURES STAGE 4

REMOVE EXISTING DOUBLE YELLOW CENTERLINE



TYPICAL DRUM LAYOUT FOR LANE CLOSURES

- SEE SPECIAL PROVISIONS
- ** TO BE INSTALLED BY CITY OF APPLETON

DETAILS NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE NUMBER OF TYPE III BARRICADES AND NON-METALLIC DRUMS SHOWN ARE APPROXIMATE AND THE NUMBER MAY CHANGE DEPENDING ON FINAL PLACEMENT.

ALL FLASHING ARROW BOARDS ARE TO BE EQUIPPED WITH DIMMERS.

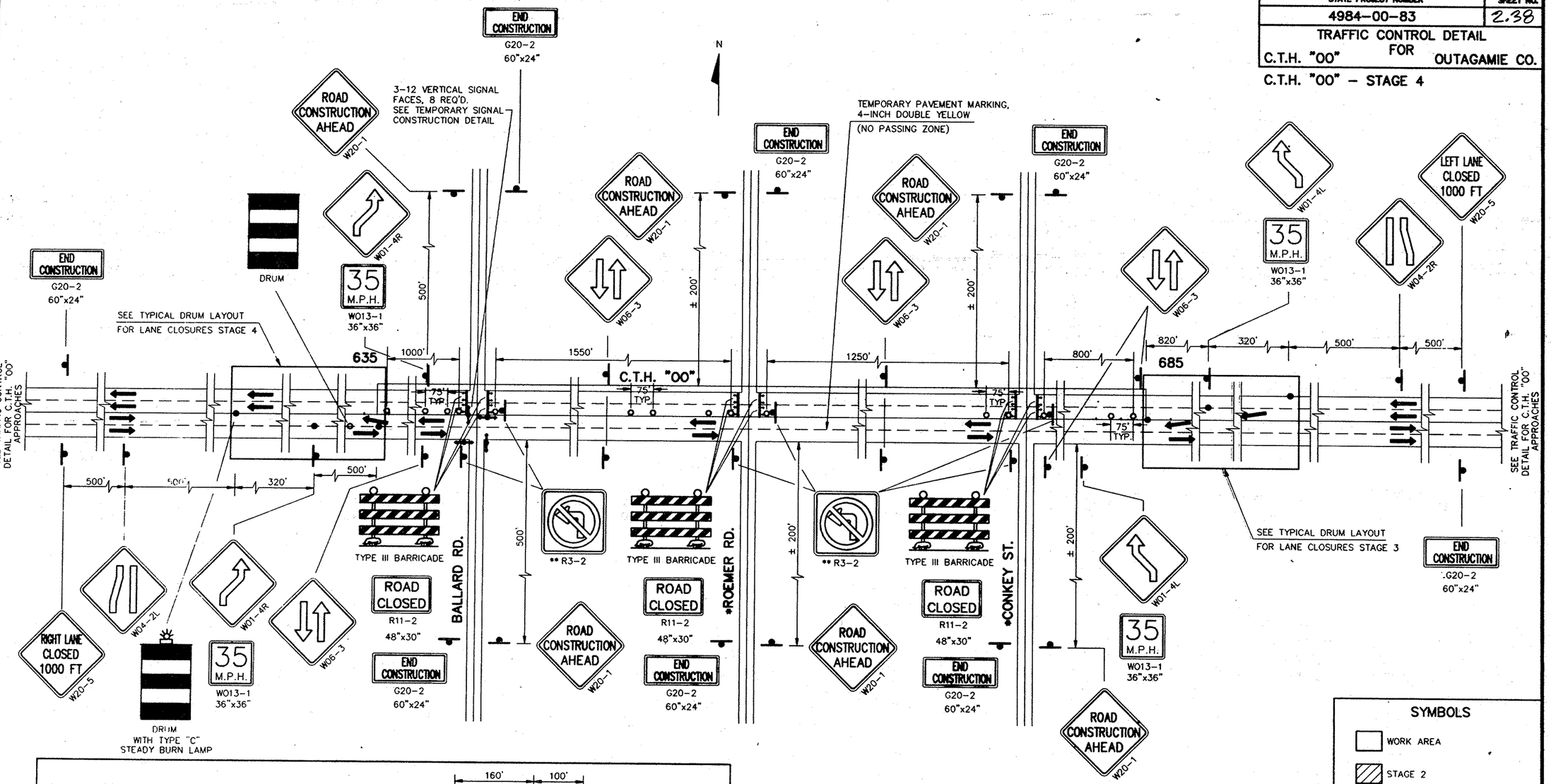
SYMBOLS

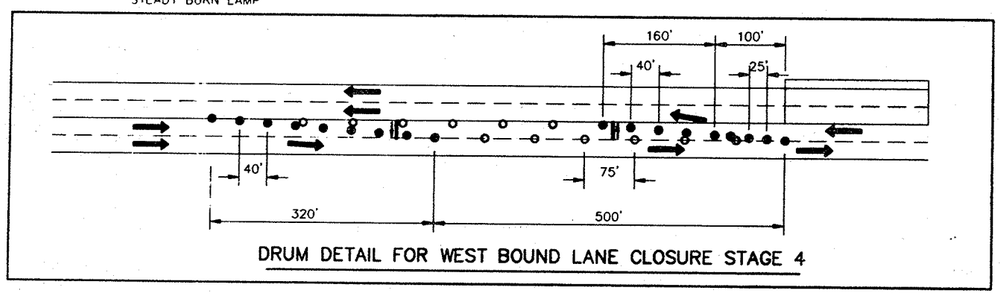
- WORK AREA
- STAGE 2
- TEMPORARY TRAFFIC SIGNAL
- DRUM
- DRUM WITH TYPE "C" STEADY BURN LAMP
- DIRECTION OF TRAFFIC FLOW
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE III BARRICADE WITH TYPE "A" WARNING LIGHTS
- 4'x8' FLASHING ARROW BOARD

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.38

TRAFFIC CONTROL DETAIL
C.T.H. "00" FOR OUTAGAMIE CO.

C.T.H. "00" – STAGE 4





DRUM DETAIL FOR WEST BOUND LANE CLOSURE STAGE 4

* SEE SPECIAL PROVISIONS

** TO BE INSTALLED BY CITY OF APPLETON

DETAILS NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE NUMBER OF TYPE III BARRICADES AND NON-METALLIC DRUMS SHOWN ARE APPROXIMATE AND THE NUMBER MAY CHANGE DEPENDING ON FINAL PLACEMENT.

ALL FLASHING ARROW BOARDS ARE TO BE EQUIPPED WITH DIMMERS.

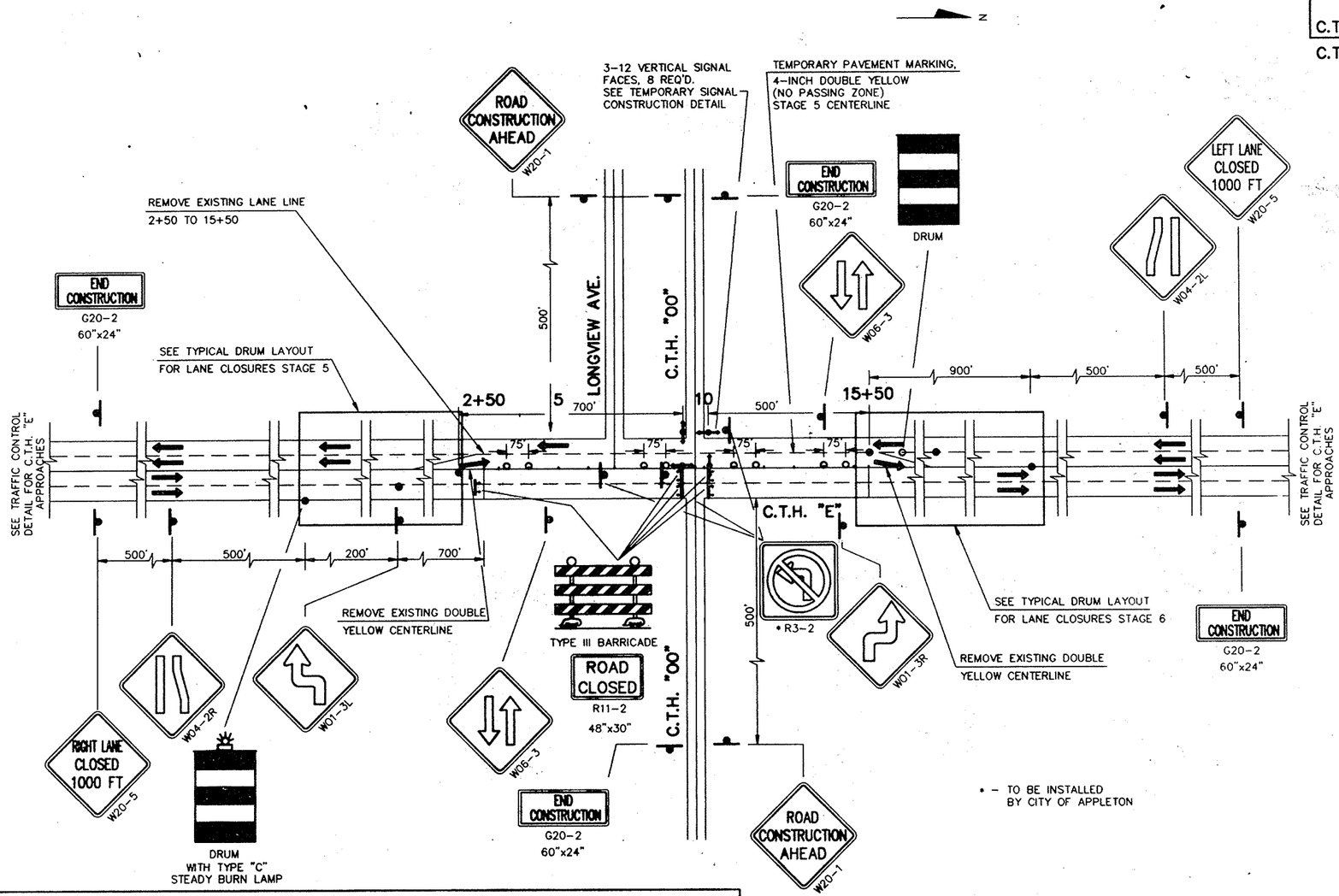
SYMBOLS

- WORK AREA
- STAGE 2
- TEMPORARY TRAFFIC SIGNAL
- DRUM
- DRUM WITH TYPE "C" STEADY BURN LAMP
- DIRECTION OF TRAFFIC FLOW
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE III BARRICADE WITH TYPE "A" WARNING LIGHTS
- 4'x8' FLASHING ARROW BOARD

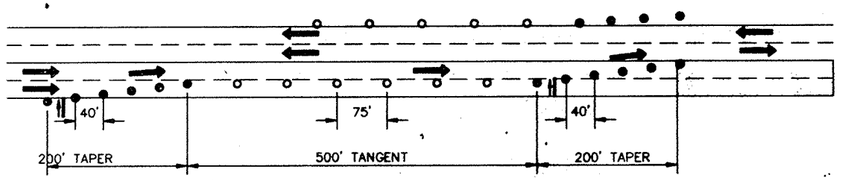
STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.39

TRAFFIC CONTROL DETAIL FOR C.T.H. "E" OUTAGAMIE CO.

C.T.H. "E" – STAGE 5



• – TO BE INSTALLED BY CITY OF APPLETON



TYPICAL DRUM LAYOUT FOR LANE CLOSURES

SYMBOLS

- WORK AREA
- STAGE 2
- TEMPORARY TRAFFIC SIGNAL
- DRUM
- DRUM WITH TYPE "C" STEADY BURN LAMP
- DIRECTION OF TRAFFIC FLOW
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE III BARRICADE WITH TYPE "A" WARNING LIGHTS
- 4'x8' FLASHING ARROW BOARD

DETAILS NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

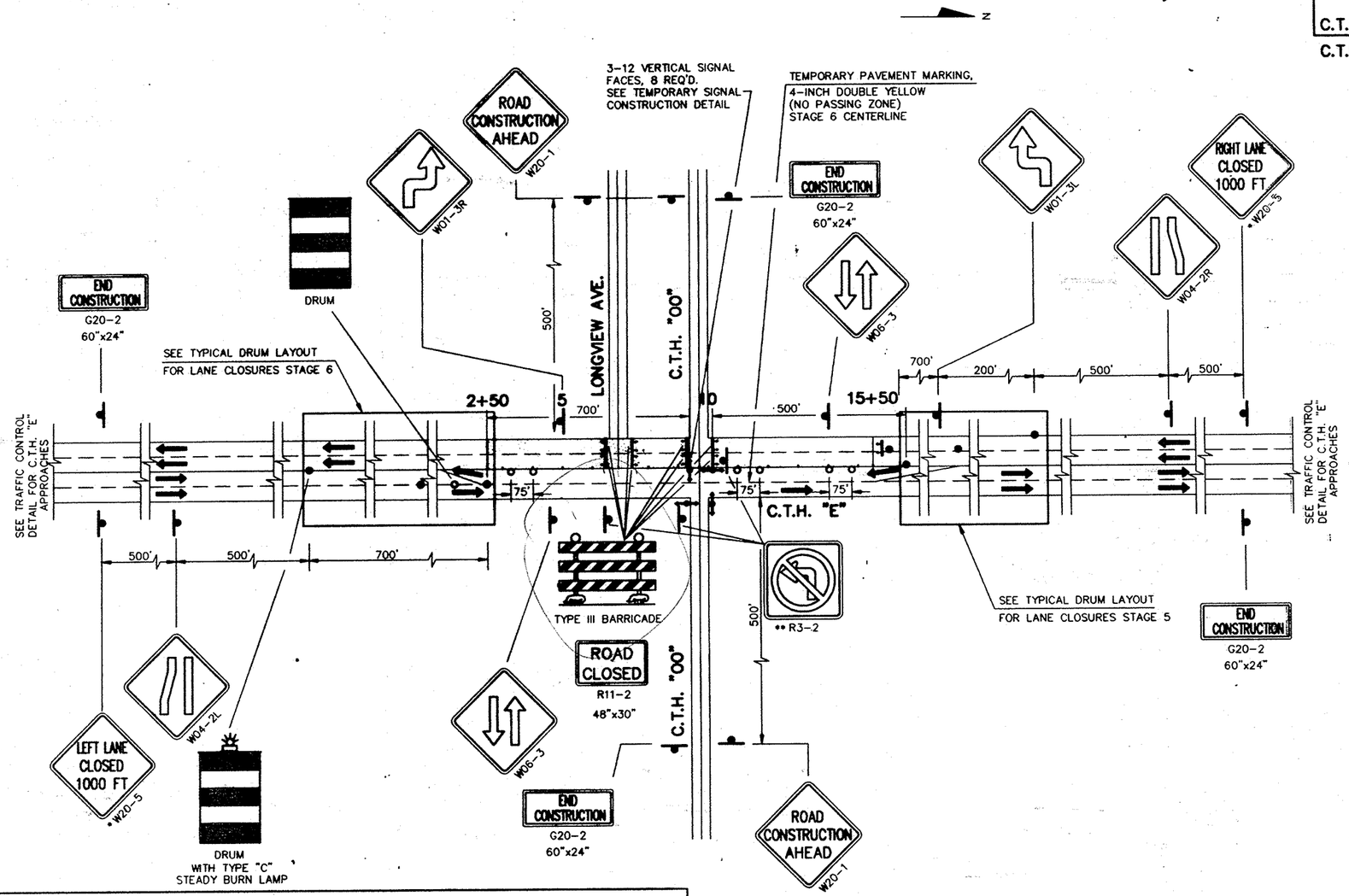
"W0" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

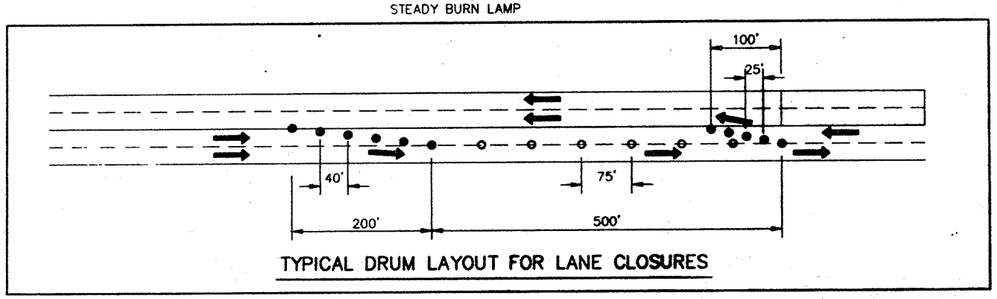
THE NUMBER OF TYPE III BARRICADES AND NON-METALLIC DRUMS SHOWN ARE APPROXIMATE AND THE NUMBER MAY CHANGE DEPENDING ON FINAL PLACEMENT.

ALL FLASHING ARROW BOARDS ARE TO BE EQUIPPED WITH DIMMERS.

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.40
TRAFFIC CONTROL DETAIL FOR C.T.H. "E" OUTAGAMIE CO.	

C.T.H. "E" – STAGE 6





TYPICAL DRUM LAYOUT FOR LANE CLOSURES

* – REPLACES SIGN FROM STAGE 5

** – TO BE INSTALLED BY CITY OF APPLETON

DETAILS NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE NUMBER OF TYPE III BARRICADES AND NON-METALLIC DRUMS SHOWN ARE APPROXIMATE AND THE NUMBER MAY CHANGE DEPENDING ON FINAL PLACEMENT.

ALL FLASHING ARROW BOARDS ARE TO BE EQUIPPED WITH DIMMERS.

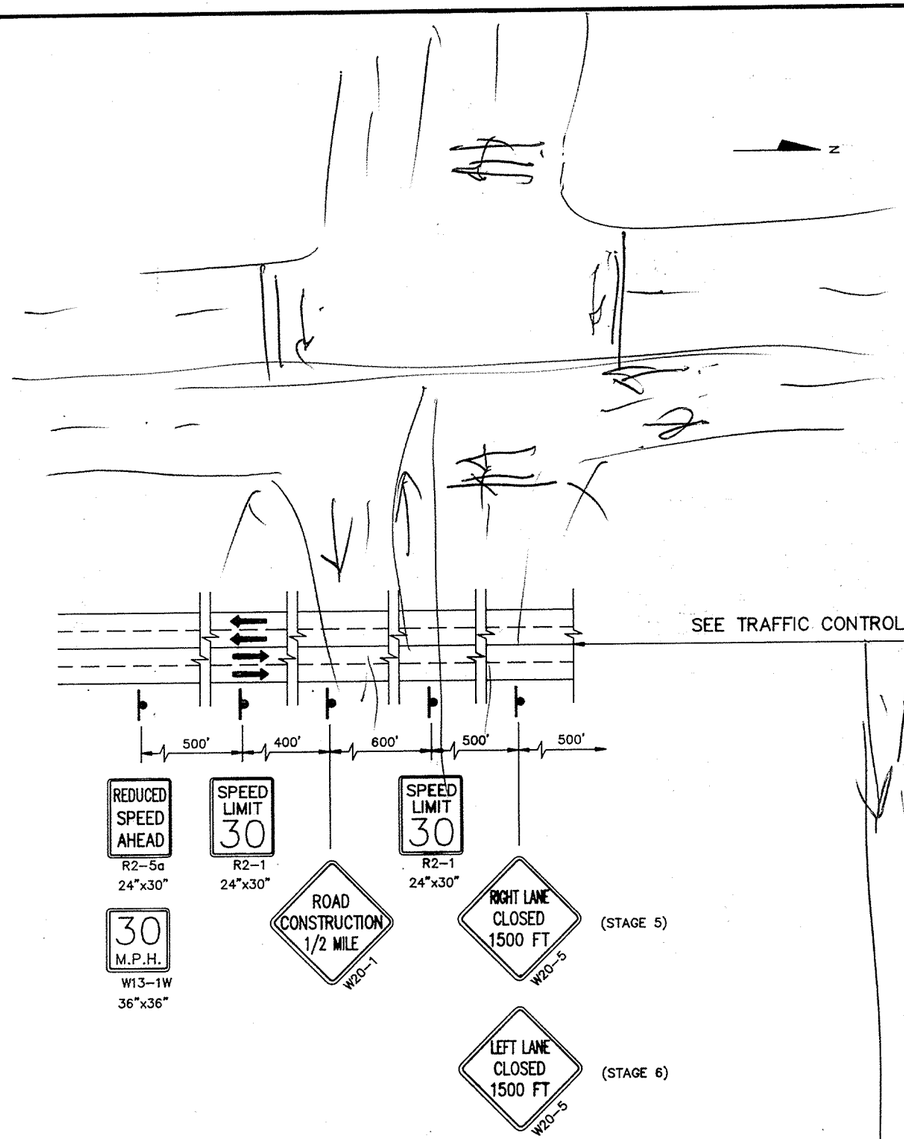
SYMBOLS

- WORK AREA
- STAGE 2
- TEMPORARY TRAFFIC SIGNAL
- DRUM
- DRUM WITH TYPE "C" STEADY BURN LAMP
- DIRECTION OF TRAFFIC FLOW
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE III BARRICADE WITH TYPE "A" WARNING LIGHTS
- 4'x8' FLASHING ARROW BOARD

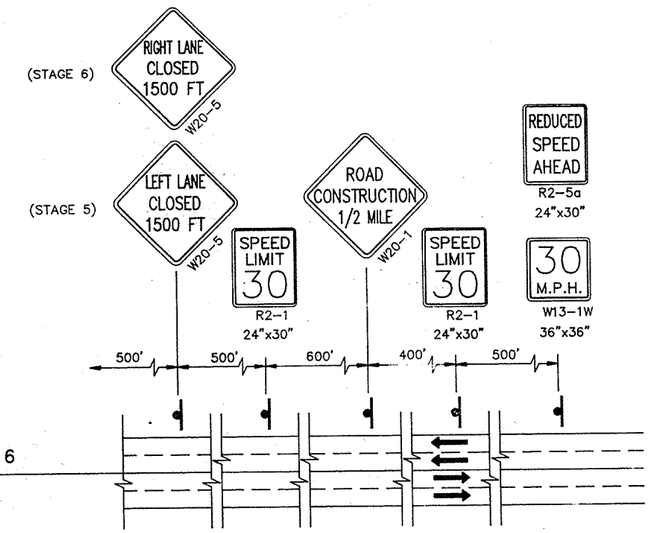
STATE PROJECT NUMBER	SHEET NO.
4984-00-83	E.41

TRAFFIC CONTROL DETAIL
C.T.H. "E" FOR OUTAGAMIE CO.

C.T.H. "E" – APPROACHES



SEE TRAFFIC CONTROL DETAIL FOR C.T.H."00" – STAGE 5, STAGE 6





DETAILS NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE NUMBER OF TYPE III BARRICADES AND NON-METALLIC DRUMS SHOWN ARE APPROXIMATE AND THE NUMBER MAY CHANGE DEPENDING ON FINAL PLACEMENT.

ALL FLASHING ARROW BOARDS ARE TO BE EQUIPPED WITH DIMMERS.

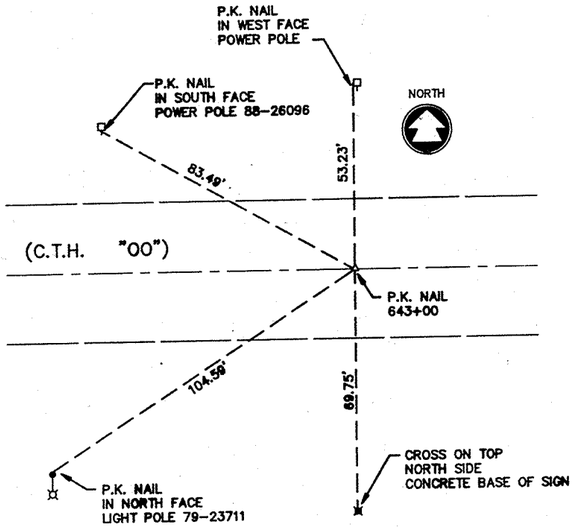
SYMBOLS

DIRECTION OF TRAFFIC FLOW

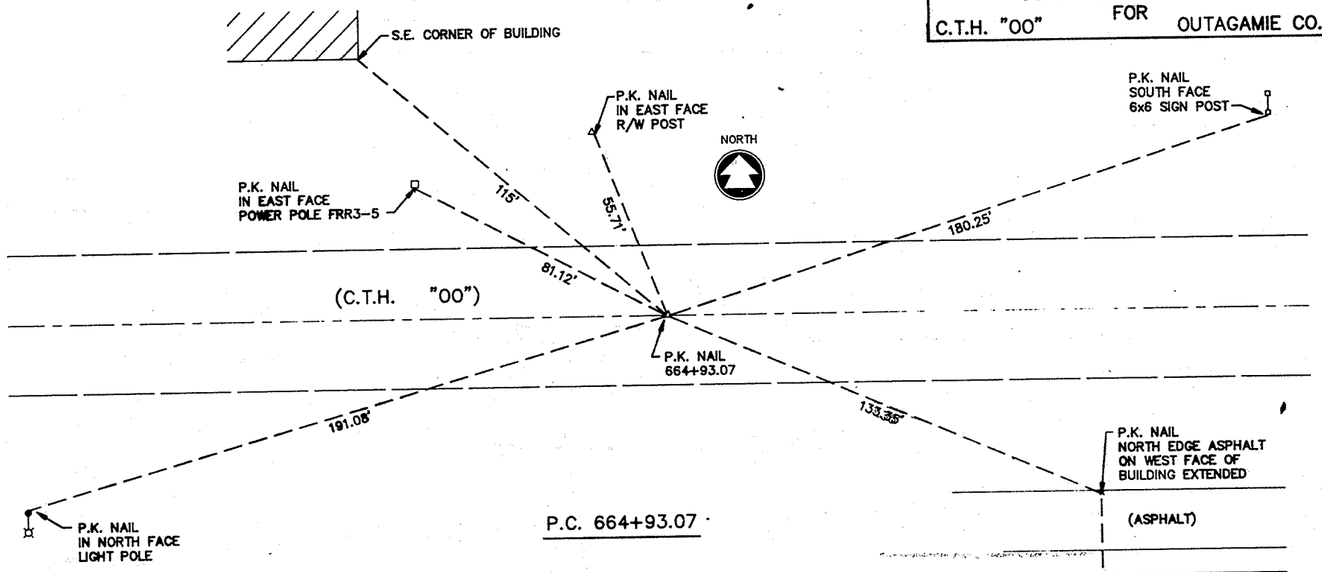
SIGN ON PORTABLE OR PERMANENT SUPPORT

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	2.42

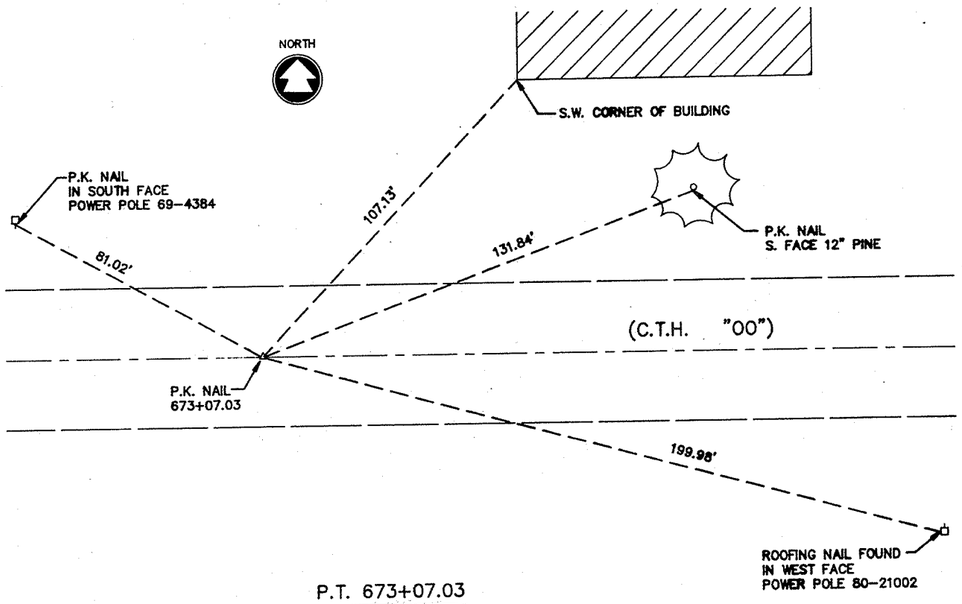
CONSTRUCTION CL TIES
FOR
C.T.H. "00" OUTAGAMIE CO.



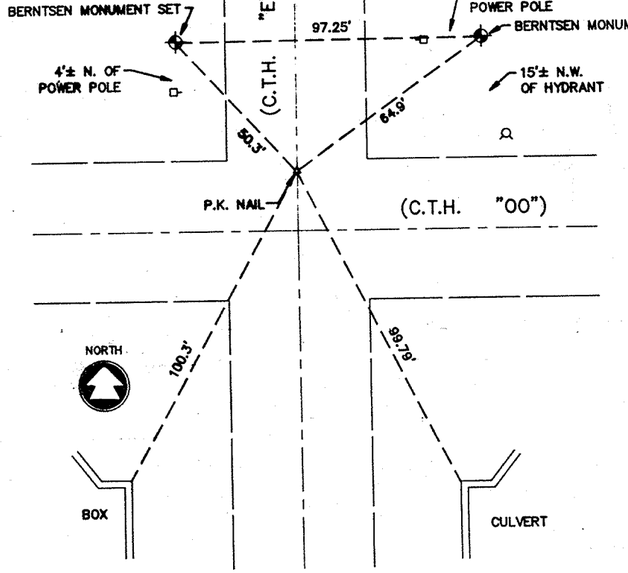
P.O.L. 643+00



P.C. 664+93.07

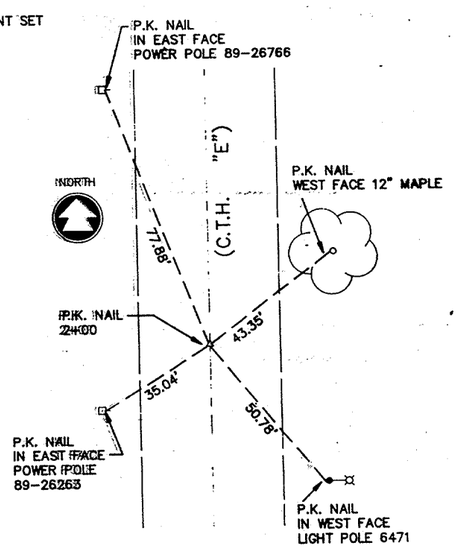


P.T. 673+07.03



STA. 645+95.38, 30' LT., C.T.H. "00"

STA. 10+00, BALLARD ROAD



P.O.L. 2+00

DATE 12/02/92

ESTIMATE OF QUANTITIES

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	4984-00-83 QUANTITY
20102	CLEARING	I.D.	46.00	46.00
20105	GRUBBING	I.D.	46.00	46.00
20301	REMOVING OLD CULVERT, STATION 9+25	L.S.	1.00	1.00
20302	REMOVING OLD CULVERT, STATION 8+95	L.S.	1.00	1.00
20303	REMOVING OLD CULVERT, STATION 643+13	L.S.	1.00	1.00
20330	REMOVING OLD CULVERTS	EACH	6.00	6.00
20401	REMOVING PAVEMENT	S.Y.	18,100.00	18,100.00
20403	REMOVING CURB	L.F.	40.00	40.00
20411	REMOVING GUARDRAIL	L.F.	34.00	34.00
20416	REMOVING INLETS	EACH	7.00	7.00
20422	REMOVING CONCRETE BASES	EACH	13.00	13.00
20503	UNCLASSIFIED EXCAVATION	C.Y.	49,433.00	49,433.00
20620	EXCAVATION FOR STRUCTURES, CULVERTS P-44-715	L.S.	1.00	1.00
21301	FINISHING ROADWAY	L.S.	1.00	1.00
30404	CRUSHED AGGREGATE BASE COURSE	TON	22,350.00	22,350.00
30407	SALVAGED CRUSHED AGGREGATE BASE COURSE	C.Y.	1,200.00	1,200.00
40501	ASPHALTIC MATERIAL FOR PLANT MIXES	TON	126.00	126.00
40713	ASPHALTIC CONCRETE PAVEMENT, TYPE MV	TON	2,100.00	2,100.00
41510	CONCRETE PAVEMENT, 10-INCH	S.Y.	40,320.00	40,320.00
41520	H.E.S. CONCRETE PAVEMENT, 10-INCH	S.Y.	400.00	400.00
41531	CONCRETE DRIVEWAY	S.Y.	100.00	100.00
41571	PAVEMENT TIES	EACH	91.00	91.00
50401	CONCRETE MASONRY, CULVERTS	C.Y.	696.00	696.00
50505	HIGH-STRENGTH BAR STEEL REINFORCEMENT, CULVERTS	LB.	77,634.00	77,634.00
50915	CONCRETE SURFACE REPAIR	S.F.	120.00	120.00
51340	TUBULAR RAILING, TYPE F, STRUCTURE P-44-715	L.S.	1.00	1.00

Sheet 3

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	4984-00-83 QUANTITY
52260	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 12-INCH	EACH	1.00	1.00
52262	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 18-INCH	EACH	10.00	10.00
52264	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 24-INCH	EACH	1.00	1.00
60119	CONCRETE CURB AND GUTTER, 18-INCH, TYPE A	L.F.	8,340.00	8,340.00
60123	CONCRETE CURB AND GUTTER, 30-INCH, TYPE A	L.F.	11,286.00	11,286.00
60133	CONCRETE CURB AND GUTTER, 30-INCH, TYPE D	L.F.	546.00	546.00
60204	CONCRETE SIDEWALK, 4-INCH	S.F.	6,750.00	6,750.00
60205	CONCRETE SIDEWALK, 5-INCH	S.F.	6,425.00	6,425.00
60825	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 12-INCH	L.F.	2,163.00	2,163.00
60827	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 18-INCH	L.F.	869.00	869.00
60829	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 24-INCH	L.F.	828.00	828.00
60837	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 60-INCH	L.F.	20.00	20.00
60839	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 72-INCH	L.F.	55.00	55.00
61110	MANHOLES, TYPE 1	EACH	9.00	9.00
61112	MANHOLES, TYPE 3	EACH	3.00	3.00
61121	INLETS, TYPE 1	EACH	5.00	5.00
61122	INLETS, TYPE 3	EACH	89.00	89.00
61123	INLETS, TYPE 8	EACH	2.00	2.00
61128	RECONSTRUCTING MANHOLES	EACH	1.00	1.00
61163	INLET COVERS, TYPE C	EACH	14.00	14.00
61167	INLET COVERS, TYPE H	EACH	85.00	85.00
61170	INLET COVERS, TYPE MS	EACH	2.00	2.00
61182	ADJUSTING MANHOLE COVERS	EACH	11.00	11.00

Sheet 3.1

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	4984-00-83 QUANTITY
61183	ADJUSTING INLET COVERS	EACH	2.00	2.00
61210	PIPE UNDERDRAIN, UNPERFORATED, 4-INCH	L.F.	15.00	15.00
61211	PIPE UNDERDRAIN, UNPERFORATED, 6-INCH	L.F.	6.00	6.00
61212	PIPE UNDERDRAIN, UNPERFORATED, 8-INCH	L.F.	20.00	20.00
61214	PIPE UNDERDRAIN, UNPERFORATED, 12-INCH	L.F.	25.00	25.00
61215	PIPE UNDERDRAIN, UNPERFORATED, 15-INCH	L.F.	5.00	5.00
61235	PIPE UNDERDRAIN, WRAPPED, 4-INCH	L.F.	35.00	35.00
61333	NONMETALLIC CONDUIT, 1 1/2-INCH	L.F.	219.00	219.00
61336	NONMETALLIC CONDUIT, 3-INCH	L.F.	1,677.00	1,677.00
61910	MOBILIZATION	L.S.	1.00	1.00
62101	LANDMARK REFERENCE MONUMENTS	EACH	8.00	8.00
62301	CALCIUM CHLORIDE SURFACE TREATMENT	TON	30.00	30.00
62401	WATER	MGAL	1,000.00	1,000.00
62501	TOPSOIL	S.Y.	27,555.00	27,555.00
62702	MULCHING	S.Y.	24,448.00	24,448.00
62803	EROSION MAT, DELIVERED	S.Y.	225.00	225.00
62804	EROSION MAT, INSTALLED	S.Y.	225.00	225.00
62815	SILT FENCE, DELIVERED	L.F.	500.00	500.00
62816	SILT FENCE, INSTALLED	L.F.	500.00	500.00
62817	SILT FENCE MAINTENANCE	L.F.	500.00	500.00
62905	FERTILIZER, TYPE B	CWT.	15.40	15.40
63002	SEEDING	LB.	432.00	432.00
63101	SODDING	S.Y.	3,147.00	3,147.00
64002	POLES, TYPE 2	EACH	2.00	2.00
64012	CONCRETE BASES, TYPE 1	EACH	16.00	16.00
64013	CONCRETE BASES, TYPE 2	EACH	6.00	6.00
64202	FIELD OFFICE, TYPE B	L.S.	1.00	1.00
64210	FIELD LABORATORY	L.S.	1.00	1.00

Sheet 3.2

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	4984-00-83 QUANTITY
64301	TRAFFIC CONTROL	L.S.	1.00	1.00
64310	TRAFFIC CONTROL, ARROW BOARDS	DAYS	392.00	392.00
64313	TRAFFIC CONTROL, DRUMS	DAYS	13,943.00	13,943.00
64318	TRAFFIC CONTROL, BARRICADES, TYPE III	DAYS	1,354.00	1,354.00
64321	TRAFFIC CONTROL, WARNING LIGHTS, TYPE A	DAYS	2,708.00	2,708.00
64323	TRAFFIC CONTROL, WARNING LIGHTS, TYPE C	DAYS	4,184.00	4,184.00
64326	TRAFFIC CONTROL, SIGNS	DAYS	6,167.00	6,167.00
64406	PAVEMENT MARKING, EPOXY, 4-INCH	L.F.	14,165.00	14,165.00
64414	PAVEMENT MARKING, CHANNELIZING, EPOXY, 8-INCH	L.F.	2,485.00	2,485.00
64437	PAVEMENT MARKING, STOP LINE, EPOXY, 18-INCH	L.F.	415.00	415.00
64457	PAVEMENT MARKING, CROSSWALK, EPOXY, 6-INCH	L.F.	320.00	320.00
64472	PAVEMENT MARKING, ARROWS, EPOXY, TYPE 2	EACH	34.00	34.00
64479	PAVEMENT MARKING, WORDS, EPOXY	EACH	17.00	17.00
64481	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE	L.F.	12,800.00	12,800.00
64484	TEMPORARY PAVEMENT MARKING	L.F.	12,800.00	12,800.00
64487	REMOVING PAVEMENT MARKINGS	L.F.	8,200.00	8,200.00
64489	PAVEMENT MARKING, DIAGONAL, EPOXY, 8-INCH	L.F.	580.00	580.00
64493	PAVEMENT MARKING, CURB RAMP, EPOXY	L.F.	100.00	100.00
64495	PAVEMENT MARKING, CURB, EPOXY	L.F.	25.00	25.00
64496	PAVEMENT MARKING, ISLAND NOSE, EPOXY	S.F.	432.00	432.00
64601	SAWING EXISTING PAVEMENT	L.F.	818.00	818.00
~~90001~~	~~REMOVING BRIDGE RAIL~~	~~L.F.~~	~~46.00~~	~~46.00~~
90002	REMOVING CONCRETE DITCH	S.Y.	400.00	400.00
90003	INLET COVER, SPECIAL	EACH	4.00	4.00
90004	CONCRTE CURB, SPECIAL	L.F.	40.00	40.00

Sheet 3.3

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	4984-00-83 QUANTITY
90005	TRAFFIC SIGNAL RELOCATION, CTH "OO" AND CTH"E" INTERSECTION	L.S.	1.00	1.00
90006	TEMPORARY TRAFFIC SIGNALS, CTH "OO" AND CTH "E" INTERSECTION	L.S.	1.00	1.00
90007	TRAFFIC SIGNAL FACES, 5-12 VERTICAL, MODIFIED	EACH	4.00	4.00
90008	TRAFFIC SIGNAL FACES, 5-12 HORIZONTAL, MODIFIED	EACH	4.00	4.00
90009	LOOP DETECTOR CONDUIT,1-1/2 INCH	L.F.	394.00	394.00
90010	INSTALL CITY-FURNISHED MANHOLE COVERS	EACH	3.00	3.00
90011	TRAFFIC SIGNAL CONTROLLER, FULLY ACTUATED, 8-PHASE, SPECIAL	L.S.	1.00	1.00
90012	MAST ARMS,TRAFFIC SIGNAL TROMBONE, 16 FT.	EACH	2.00	2.00
90359	BREAKER RUN STONE	TON	4,000.00	4,000.00
90396	CONCRETE PAVEMENT GAPS	EACH	8.00	8.00
90660	ELECTRICAL WIRE, TRAFFIC SIGNALS, NO. 10	L.F.	3,812.00	3,812.00
90779	SIGNAL CONTROLLER TRAINING	L.S.	1.00	1.00
90785	CONCRETE CONTROL CABINET BASES, TYPE 9	EACH	2.00	2.00
90792	PULL BOXES, 12X24-INCH	EACH	4.00	4.00
90797	PULL BOXES, 24X36-INCH	EACH	16.00	16.00
90800	PEDESTAL BASES	EACH	12.00	12.00
90801	TRANSFORMER BASES	EACH	4.00	4.00
90810	TRAFFIC SIGNAL STANDARDS, STEEL, 13-FT.	EACH	8.00	8.00
90811	TRAFFIC SIGNAL STANDARDS, STEEL, 15-FT	EACH	4.00	4.00
90817	TRAFFIC SIGNAL FACES, 3-12 VERTICAL	EACH	10.00	10.00
90823	TRAFFIC SIGNAL FACES, 3-12 HORIZONTAL	EACH	2.00	2.00
90830	PEDESTRIAN SIGNAL FACES, 12-INCH	EACH	4.00	4.00
90833	PEDESTRIAN PUSH BUTTONS	EACH	4.00	4.00

Sheet 3.4

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	4984-00-83 QUANTITY
90834	TRAFFIC SIGNAL MOUNTING HARDWARE, BALLARD ROAD	L.S.	1.00	1.00
90835	TRAFFIC SIGNAL MOUNTING HARDWARE, ROEMER ROAD	L.S.	1.00	1.00
90838	BACKPLATES	EACH	20.00	20.00
90842	TRAFFIC SIGNAL CABLE, 7 CONDUCTOR, NO. 14	L.F.	1,303.00	1,303.00
90843	TRAFFIC SIGNAL CABLE, 9 CONDUCTOR, NO. 14	L.F.	2,440.00	2,440.00
90861	TRAFFIC SIGNAL CONTROLLER, PRETIMED, SOLID STATE	EACH	1.00	1.00
90865	ELECTRICAL SERVICE, TRAFFIC SIGNALS, BALLARD ROAD	L.S.	1.00	1.00
90866	ELECTRICAL SERVICE, TRAFFIC SIGNALS ROEMER ROAD	L.S.	1.00	1.00
90870	LOOP DETECTOR AMPLIFIER, BALLARD ROAD	L.S.	1.00	1.00
90872	LOOP DETECTOR WIRE	L.F.	1,236.00	1,236.00
90873	LOOP DETECTOR LEAD IN CABLE	L.F.	1,003.00	1,003.00

Sheet 3.5

STATE PROJECT NUMBER	SHEET NO.
4989-00-83	3A

DETAILS

SUMMARY OF MISCELLANEOUS QUANTITIES

CLEARING & GRUBBING

STA.	LOCATION	QUANTITY (I.D.)
12+45	BALLARD ROAD, 55' LT	18
12+45	BALLARD ROAD, 79' LT	18
679+75	C.T.H. "OO", 52' LT	10
		46

REMOVING PAVEMENT

STATION TO STATION	LOCATION	QUANTITY (S.Y.)
635+73.45 TO 684+00	C.T.H. "OO"	10,730
2+80 TO 8+46	BALLARD ROAD	3,080
10+48 TO 15+25	BALLARD ROAD	2,550
10+40 TO 11+50	N. ROEMER ROAD	600
8+25 TO 9+35	S. CONKEY STREET	450
10+52 TO 11+85	N. CONKEY STREET	550
9+42.30 TO 9+79.30	LONGVIEW DRIVE	140
		18,100

REMOVING CURB & CONCRETE CURB,SPECIAL

STATION TO STATION	LOCATION	REMOVING CURB QUANTITY (L.F.)	*CONCRETE CURB, SPECIAL QUANTITY (L.F.)
9+14 TO 9+34	S. ROEMER ROAD, LT	20	20
9+14 TO 9+34	S. ROEMER ROAD, RT	20	20
		40	*40

* NON-PARTICIPATING

REMOVING GUARDRAIL

STATION TO STATION	LOCATION	QUANTITY (L.F.)
643+18 TO 643+25	C.T.H. "OO"	34
		34

REMOVING CULVERT PIPES

STATION	LOCATION	QUANTITY (EACH)
662+20	C.T.H. "OO", LT	1
662+75	C.T.H. "OO", LT	1
10+45	N. CONKEY STREET	1
652+70	C.T.H. "OO", LT	1
644+10	C.T.H. "OO", LT	1
643+10	C.T.H. "OO", LT	1
		6

REMOVING INLETS

STA.	LOCATION	QUANTITY (EACH)
6+60	BALLARD ROAD, LT	1
7+02	BALLARD ROAD, RT	1
7+43	BALLARD ROAD, LT	1
10+57	BALLARD ROAD, LT	1
10+60	BALLARD ROAD, RT	1
13+50	BALLARD ROAD, RT	1
13+51	BALLARD ROAD, LT	1
		7

REMOVE CONCRETE BASES

STA.	LOCATION	QUANTITY (EACH)
645+21	C.T.H. "OO", 28' RT	1
645+21	C.T.H. "OO", 28' RT	1
645+23	C.T.H. "OO", 30' LT	1
9+15	BALLARD ROAD, 32' LT	1
10+47	BALLARD ROAD, 27' LT	1
10+47	BALLARD ROAD, 27' LT	1
10+47	BALLARD ROAD, 27' RT	1
9+15	BALLARD ROAD, 32' RT	1
9+15	BALLARD ROAD, 32' RT	1
646+72	C.T.H. "OO", 29' RT	1
646+72	C.T.H. "OO", 32' LT	1
646+72	C.T.H. "OO", 32' LT	1
10+26	BALLARD ROAD, 53' RT	1
		13

ADJUSTING INLET COVERS

STA.	LOCATION	QUANTITY (EACH)
10+48	LONGVIEW DR., LT	1
10+48	LONGVIEW DR., RT	1
		2

LANDMARK REFERENCE MONUMENTS

STATION	LOCATION	EACH	REMARKS
645+95.38	C.T.H. "OO", 30' LT	4	S.E. CORNER SEC. 13 T21N, R17E
676+08.35	C.T.H. "OO", 11.23' RT	4	S1/4 CORNER SEC. 18 T21N, R18E
		8	

MANHOLE ADJUSTMENTS AND RECONSTRUCTION

STATION	LOCATION	TYPE	ADJUST.	RECON.
6+11	BALLARD ROAD, 18.5' LT	STORM	1	
6+23	BALLARD ROAD, 25.5' RT	STORM	1	
6+80	BALLARD ROAD, 24.5' RT	STORM	1	
7+00	BALLARD ROAD, CL	* SANITARY	1	
13+33	BALLARD ROAD, 1' LT	* SANITARY	1	
13+45	BALLARD ROAD, 19' RT	STORM	1	
645+95	34' LT	* SANITARY	1	
652+90	58' LT	* SANITARY		1
657+72	60' LT	* SANITARY	1	
10+88	N. ROEMER ROAD, 20' RT	STORM	1	
11+13	N. ROEMER ROAD, CL	* SANITARY	1	
662+43	37' LT	STORM	1	
		TOTAL:	11	1

* (NON-PARTICIPATING)

SAWING EXISTING PAVEMENT

STATION	LOCATION	QUANTITY (L.F.)
635+50	C.T.H. "OO"	51
2+80	BALLARD ROAD	49
9+42.30	LONGVIEW DRIVE	33
13+75	BALLARD ROAD	31
15+25	BALLARD ROAD	31
13+75 TO 15+25	BALLARD ROAD	150
11+50	N. ROEMER ROAD	49
8+25	S. ROEMER ROAD	37
11+85	N. CONKEY STREET	37
	DRIVEWAYS	350
		818

CRUSHED AGGREGATE BASE COURSE

LOCATION	QUANTITY (TONS)
C.T.H. "OO", EB	6,500
C.T.H. "OO", WB	6,500
C.T.H. "OO", MEDIAN	2,700
BALLARD ROAD, NB	1,600
BALLARD ROAD, SB	1,300
BALLARD ROAD, MEDIAN	700
LONGVIEW DRIVE	100
N. ROEMER ROAD	300
S. ROEMER ROAD	150
N. CONKEY STREET	300
S. CONKEY STREET	350
DRIVEWAYS	800
C.T.H. "OO"	1,050
	22,350

TELEDYNE POST

STATE PROJECT NUMBER	SHEET NO.
4984 - 00 - 83	3B

SUMMARY OF MISCELLANEOUS QUANTITIES

SUMMARY OF EARTHWORK QUANTITIES

C.T.H. "00" STAGE 3

STATION	UNC. EXC. CU. YD.	FILL VOL. CU. YD.
635+50		
	37	2
636+00		
	107	3
636+50		
	103	8
637+00		
	105	30
637+50		
	132	41
638+00		
	161	34
638+50		
	192	19
639+00		
	218	3
639+50		
	216	2
640+00		
	188	5
640+50		
	158	7
641+00		
	130	21
641+50		
	54	17
641+74		
	52	12
642+00		
	76	14
642+48		
	69	22
643+00		
	58	243
643+50		
	17	146
643+66		
	35	273
644+00		
	48	314
644+42		
	11	64
644+50		
	62	319
644+92		
	13	66
645+00		
	263	247
646+50		
	94	57
647+00		
	13	9
647+07		
	83	55
647+50		
	14	9
647+57		
	88	45
648+00		
	107	48
648+50		
	75	34
648+83		
	40	17
649+00		
	124	43
649+50		
	132	38
650+03		
SUBTOTALS	3,275	2,267

STATION	UNC. EXC. CU. YD.	FILL VOL. CU. YD.
650+03		
	120	26
650+50		
	135	23
651+00		
	139	21
651+50		
	141	20
652+00		
	143	22
652+50		
	144	22
653+00		
	147	18
653+50		
	156	9
654+00		
	164	4
654+50		
	170	3
655+00		
	178	1
655+50		
	185	1
656+00		
	189	1
656+50		
	194	1
657+00		
	196	
657+50		
	196	
658+00		
	194	
658+50		
	185	
659+00		
	166	1
659+49		
	157	26
660+00		
	138	61
660+50		
	48	29
660+69		
	71	58
661+00		
	47	50
661+23		
	50	61
661+50		
	39	50
661+73		
	42	34
662+00		
	142	69
663+00		
	24	15
663+17		
	48	37
663+50		
	26	22
663+67		
	53	37
664+00		
	28	17
664+16		
	60	34
664+50		
SUBTOTALS	3,919	773

STATION	UNC. EXC. CU. YD.	FILL VOL. CU. YD.
664+50		
	95	46
665+00		
	80	20
665+36		
	35	3
665+50		
	130	12
666+00		
	143	9
666+50		
	157	3
667+00		
	170	1
667+50		
	190	
668+00		
	216	
668+50		
	243	
669+00		
	274	
669+50		
	260	
670+00		
	231	
670+50		
	229	
671+00		
	226	
671+50		
	219	
672+00		
	208	
672+50		
	110	
672+77		
	94	
673+00		
	204	22
673+50		
	195	54
673+97		
	240	75
674+54		
	213	61
675+04		
	641	150
676+38		
	63	12
676+50		
	200	40
676+88		
	64	14
677+00		
	248	50
677+45		
	28	5
677+50		
	297	26
678+00		
	312	
678+50		
	94	
678+65		
	225	
679+00		
	326	
679+50		
SUBTOTALS	6,660	603

STATION	UNC. EXC. CU. YD.	FILL VOL. CU. YD.
679+50		
	307	16
680+00		
	276	34
680+50		
	250	36
681+00		
	231	30
681+50		
	218	36
682+00		
	198	62
682+50		
	177	85
683+00		
	159	103
683+50		
	146	136
684+00		
SUBTOTALS	1,962	538
TOTALS	15,816	4,181

C.T.H. "00" STAGE 4

STATION	UNC. EXC. CU. YD.	FILL VOL. CU. YD.
635+50		
	35	2
636+00		
	106	2
636+50		
	136	79
637+00		
	174	136
637+50		
	226	57
638+00		
	274	45
638+50		
	303	75
639+00		
	319	64
639+50		
	306	65
640+00		
	273	95
640+50		
	239	120
641+00		
	199	122
641+50		
	83	64
641+74		
	79	75
642+00		
	116	174
642+48		
	103	187
643+00		
	86	200
643+50		
SUBTOTALS	3,057	1,562

STATION	UNC. EXC. CU. YD.	FILL VOL. CU. YD.
643+50		
	26	79
643+66		
	59	126
644+00		
	79	127
644+42		
	16	28
644+50		
	90	108
644+92		
	19	10
645+00		
	483	64
646+50		
	195	2
647+00		
	26	
647+07		
	159	5
647+50		
	26	1
647+57		
	154	10
648+00		
	180	16
648+50		
	124	14
648+83		
	65	9
649+00		
	200	37
649+50		
	220	59
650+03		
	196	52
650+50		
	209	49
651+00		
	214	57
651+50		
	219	76
652+00		
	257	45
652+50		
	287	10
653+00		
	260	39
653+50		
	242	57
654+00		
	248	53
654+50		
	255	58
655+00		
	269	71
655+50		
	282	81
656+00		
	290	81
656+50		
	298	82
657+00		
	300	100
657+50		
	299	98
658+00		
	292	77
658+50		
SUBTOTALS	6,538	1,781

STATION	UNC. EXC. CU. YD.	FILL VOL. CU. YD.
658+50		
	280	61
659+00		
	256	54
659+49		
	233	62
660+00		
	197	68
660+50		
	69	28
660+69		
	104	62
661+00		
	71	59
661+23		
	76	75
661+50		
	59	69
661+73		
	66	82
662+00		
	225	200
663+00		
	38	17
663+17		
	80	24
663+50		
	45	8
663+67		
	98	11
664+00		
	53	4
664+16		
	109	7
664+50		
	157	19
665+00		
	128	24
665+36		
	55	12
665+50		
	212	38
666+00		
	236	33
666+50		
	259	23
667+00		
	286	16
667+50		
	312	15
668+00		
	336	13
668+50		
	359	9
669+00		
	374	6
669+50		
	375	5
670+00		
	374	6
670+50		
	371	7
671+00		
	364	7
671+50		
	352	7
672+00		
	339	7
672+50		
SUBTOTALS	6,948	1,127

STATION	UNC. EXC. CU. YD.	FILL VOL. CU. YD.
672+50		
	179	4
672+77		
	148	4
673+00		
	305	10
673+50		
	279	13
673+97		
	336	19
674+54		
	303	10
675+04		
	1020	4
676+38		
	108	
676+50		
	349	
676+88		
	112	
677+00		
	442	
677+45		
	51	
677+50		
	550	
678+00		
	526	9
678+50		
	139	5
678+65		
	327	10
679+00		
	466	11
679+50		
	451	20
680+00		
	426	27
680+50		
	396	25
681+00		
	362	23
681+50		
	358	10
682+00		
	369	
682+50		
	317	13
683+00		
	256	41
683+50		
	230	47
684+00		
SUBTOTALS	8,805	305
TOTALS	25,348	4,775

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	3C

SUMMARY OF MISCELLANEOUS QUANTITIES

STATION	UNC. EXC. CU. YD.	FILL VOL. CU. YD.
BALLARD RD. NB STAGE 5		
2+80		
	25	1
3+00		
	62	2
3+50		
	64	
4+00		
	69	
4+50		
	69	1
5+00		
	70	1
5+50		
	77	
6+00		
	35	
6+22		
	48	
6+50		
	103	
7+00		
	111	
7+42		
	23	
7+50		
	140	
8+00		
	42	
8+15		
	88	
8+50		
	34	
8+65		
	281	
9+32		
INTERSECTION OF "00" AND BALLARD ROAD		
10+16		
	196	
10+82		
	40	
11+00		
	57	
11+32		
	27	
11+50		
	73	
12+00		
	71	
12+50		
	7	
12+55		
	58	2
13+00		
	30	2
13+25		
	32	1
13+50		
	32	
13+75		

STATION	UNC. EXC. CU. YD.	FILL VOL. CU. YD.
	41	1
14+00		
	78	3
14+50		
	75	1
15+00		
	35	1
15+25		
TOTAL	2,192	15
BALLARD RD. SB STAGE 6		
2+80		
	27	
3+00		
	73	
3+50		
	78	1
4+00		
	88	
4+50		
	99	
5+00		
	110	
5+50		
	124	
6+00		
	59	
6+22		
	72	
6+50		
	116	3
7+00		
	105	3
7+42		
	22	
7+50		
	131	
8+00		
	39	
8+15		
	99	
8+50		
	46	
8+65		
	187	
9+32		
INTERSECTION OF "00" AND BALLARD ROAD		
10+16		
	295	
10+82		
	69	
11+00		

STATION	UNC. EXC. CU. YD.	FILL VOL. CU. YD.
	113	
11+32		
	61	
11+50		
	169	
12+00		
	165	
12+50		
	16	
12+55		
	138	
13+00		
	69	
13+25		
	59	
13+50		
	50	1
13+75		
TOTAL	2,679	8
NORTH ROEMER ROAD		
10+50		
	192	
11+00		
	145	
11+50		
TOTAL	337	
SOUTH ROEMER ROAD		
9+35		
	117	
9+60		
TOTAL	117	
NORTH CONKEY STREET		
10+52		
	194	
11+00		
	166	
11+50		
	77	
11+85		
TOTAL	437	

STATION	UNC. EXC. CU. YD.	FILL VOL. CU. YD.
SOUTH CONKEY STREET		
8+25		
	67	
8+50		
	204	
9+00		
	40	
9+07		
	196	
9+57		
TOTAL	507	

EARTHWORK QUANTITIES

STATION TO STATION	LOCATION	UNCL. EXC. CU. YD.	FILL CU. YD.	WASTE
635+50 – 684+00	C.T.H. "00" STAGE 3	15,816	4,181	10,381
635+50 – 684+00	C.T.H. "00" STAGE 4	25,348	4,775	19,140
2+80 – 13+75	BALLARD RD. NB STAGE 5	2,192	15	2,173
2+80 – 13+75	BALLARD RD. SB STAGE 6	2,679	8	2,669
10+50 – 11+50	NORTH ROEMER ROAD	337	0	337
9+35 – 9+60	SOUTH ROEMER ROAD	117	0	117
10+52 – 11+85	NORTH CONKEY STREET	437	0	437
8+25 – 9+57	SOUTH CONKEY STREET	507	0	507
635+50 – 684+00	C.T.H. "00" EBS	2,000	0	2,000
	TOTALS	49,433	8,979	37,761

BREAKER RUN STONE

STATION TO STATION	LOCATION	TONS
635+50 – 684+00	C.T.H. "00", EBS AREAS	4,000

H.E.S. CONCRETE PAVEMENT, 10-INCH

STATION TO STATION	LOCATION	S.Y.
645+50 – 646+50	C.T.H. "00"/BALLARD RD. INTERSECTION	400

SALVAGED CRUSHED AGGREGATE BASE COURSE

STATION TO STATION	LOCATION	C.Y.
635+00 – 684+00	C.T.H. "00"	1,000
6+50 – 15+00	BALLARD RD.	200
	TOTAL	1,200

STATE PROJECT NUMBER	SHEET NO.
4989-00-83	3D

DETAILS

SUMMARY OF MISCELLANEOUS QUANTITIES

ASPHALTIC CONCRETE PAVEMENT, TYPE MV

STATION TO STATION	LOCATION	QUANTITY (TONS)
635+73.45 TO 639+73.45	C.T.H. "OO"	900
	C.T.H. "OO", MEDIAN	250
	DRIVEWAYS	250
635+50 TO 684+00	C.T.H. "OO". STAGE 2	700
		2,100

PAVING GAPS

STATION	LOCATION	QUANTITY (EACH)	REMARKS
643+15. LT	COMMERCIAL ENTRANCE	1	STAGE 4, 1/2 ROAD WIDTH
645+96	BALLARD RD. INTERSECTION	1	STAGE 3 & 4, ENTIRE ROAD WIDTH
652+75, LT	COMMERCIAL ENTRANCE	1	STAGE 4, 1/2 ROAD WIDTH
662+45 OR 675+70	*ROEMER RD. *CONKEY ST.	1	STAGE 3 & 4, ENTIRE ROAD WIDTH STAGE 3 & 4, ENTIRE ROAD WIDTH
	PRIVATE ENTRANCES NORTH SIDE OF C.T.H. "OO" STA. 678+00 TO 682+50	1	STAGE 4, 1/2 ROAD WIDTH COMBINED PRIVATE ENT.
5+00 BALLARD, RT	COMMERCIAL ENTRANCE	1	STAGE 5, 1/2 ROAD WIDTH COMBINED PRIVATE ENT.
7+00 BALLARD, LT	LONGVIEW DRIVE	1	STAGE 6, 1/2 ROAD WIDTH
13+00 BALLARD, LT	COMMERCIAL ENTRANCE	1	STAGE 5 & 6, ENTIRE ROAD WIDTH
		8	

*See Special Provisions

PAVEMENT TIES

STATION	LOCATION	QUANTITY (EACH)
2+80	BALLARD ROAD	17
13+74.52	BALLARD ROAD	10
15+25	BALLARD ROAD	10
11+50	N. ROEMER ROAD	17
8+25	S. CONKEY STREET	13
11+85	N. CONKEY STREET	13
9+42.30	LONGVIEW DRIVE	11
		91

CONCRETE DRIVEWAYS

STATION	LOCATION	QUANTITY (S.Y.)
4+65	BALLARD ROAD, LT.	35
13+00	BALLARD ROAD, LT.	30
13+00	BALLARD ROAD, RT.	35
		100

CONCRETE PAVEMENT, 10-INCH

STATION TO STATION	LOCATION	QUANTITY (S.Y.)
639+73.45 TO 684+00	C.T.H. "OO", EB (Including Rt. Turn Lanes)	12,740
639+73.45 TO 684+00	C.T.H. "OO", WB (Including Rt. Turn Lanes)	12,810
639+73.45 TO 684+00	C.T.H. "OO", MEDIAN (Including Lt. Turn Lanes)	3,260
2+80 TO 9+34	BALLARD ROAD, SB	1,850
10+06 TO 13+74.52	BALLARD ROAD, SB (Includes Rt. Turn Lane)	1,520
2+80 TO 9+34	BALLARD ROAD, NB (Includes Rt. Turn Lane)	2,190
10+06 TO 15+25	BALLARD ROAD, NB	1,520
2+80 TO 9+34	BALLARD ROAD, MEDIAN (Includes Lt. Turn Lane)	890
10+06 TO 15+25	BALLARD ROAD, MEDIAN (Includes Lt. Turn Lane)	780
9+42.5 TO 9+69.5	LONGVIEW DRIVE	230
10+37.50 TO 11+50	N. ROEMER ROAD	710
9+35 TO 9+69.50	S. ROEMER ROAD	350
8+25 TO 9+69.50	S. CONKEY STREET	730
10+37.50 TO 11+85	N. CONKEY STREET	740
		40,320

CONCRETE CURB & GUTTER, 18-INCH, TYPE A

STATION TO STATION	LOCATION	QUANTITY (L.F.)
641+79 TO 645+44	C.T.H. "OO"	730
646+53 TO 652+31	C.T.H. "OO"	1,156
653+28 TO 661+83	C.T.H. "OO"	1,710
663+07 TO 675+14	C.T.H. "OO"	2,414
676+29 TO 684+00	C.T.H. "OO"	1,542
7+48 TO 9+20	BALLARD ROAD	344
10+27 TO 12+49	BALLARD ROAD	444
		8,340

CONCRETE CURB & GUTTER, 30-INCH

STATION TO STATION	LOCATION	TYPE A QUANTITY (L.F.)	TYPE D QUANTITY (L.F.)
637+00 TO 644+91.45	C.T.H. "OO", LT	519	273
637+00 TO 644+97.53	C.T.H. "OO", RT	525	273
	BALLARD ROAD, RADII	377	
647+00.47 TO 661+68.32	C.T.H. "OO", LT	1,468	
647+06.56 TO 661+68.74	C.T.H. "OO", RT	1,462	
	ROEMER ROAD, RADII	266	
663+16.30 TO 675+04.24	C.T.H. "OO", LT	1,188	
663+16.79 TO 674+97.20	C.T.H. "OO", RT	1,180	
	CONKEY STREET, RADII	314	
676+45.08 TO 684+00	C.T.H. "OO", LT	755	
676+38.09 TO 684+00	C.T.H. "OO", RT	762	
2+80 TO 6+59.73	BALLARD ROAD, LT	380	
7+41.63 TO 8+64.85	BALLARD ROAD, LT	123	
10+74.27 TO 13+74.52	BALLARD ROAD, LT	300	
2+80 TO 9+73.22	BALLARD ROAD, RT	693	
10+81.73 TO 15+25	BALLARD ROAD, RT	443	
10+96 TO 11+50	N. ROEMER ROAD	108	
8+25 TO 9+12	S. CONKEY STREET	174	
11+00 TO 11+85	N. CONKEY STREET	170	
	LONGVIEW DRIVE, RADII	79	
		11,286	546

CONCRETE SIDEWALK, 4-INCH & 5-INCH

STATION TO STATION	LOCATION	4-INCH (S.F.)	5-INCH (S.F.)
2+80 TO 9+30	BALLARD ROAD, LT	2,750	-
10+20 TO 13+75	BALLARD ROAD, LT	1,850	-
10+20 TO 15+25	BALLARD ROAD, RT	2,150	-
643+72 TO 645+44	C.T.H. "OO", MEDIAN	-	860
646+53 TO 647+83	C.T.H. "OO", MEDIAN	-	650
651+32 TO 652+32	C.T.H. "OO", MEDIAN	-	500
660+62 TO 661+83	C.T.H. "OO", MEDIAN	-	605
663+07 TO 664+28	C.T.H. "OO", MEDIAN	-	605
673+89 TO 675+14	C.T.H. "OO", MEDIAN	-	625
676+29 TO 677+51	C.T.H. "OO", MEDIAN	-	610
7+48 TO 9+20	BALLARD ROAD, MEDIAN	-	860
10+27 TO 12+49	BALLARD ROAD, MEDIAN	-	1110
		6,750	6,425

(NON-PARTICIPATING) TRAFFIC SIGNAL CONTROLLERS

LOCATION	TYPE	QUANTITY
NW Corner of CTH "00" and Roemer Rd.	PRETIMED, SOLID STATE	1 EACH
NW Corner of CTH "00" and Ballard Rd.	FULLY ACTUATED, 8-PHASE, SPECIAL	1 L.S.

STATE PROJECT NUMBER	SHEET NO
4989-00-83	3E
DETAILS	
SUMMARY OF MISCELLANEOUS QUANTITIES	

MANHOLES, INLETS & COVERS

NO.	STA.	LOCATION	STRUCT.	STRUCT. TYPE	COVER	GRATE	TOP OF COVER ELEV.	TOP OF STRUCT. ELEV.	FLOW LINE ELEV.	DEPTH (FT.)
1	636+50	42' RT	INLET	8	MS	-	749.70	-	746.70	3.00
2	638+50	46' LT	MANHOLE	1	C	-	750.55	749.30	744.23	5.07
3	638+50	33.5' LT	INLET	3	H	RIGHT	749.85	749.02	746.02	3.00
4	638+50	33.5' RT	INLET	3	H	LEFT	749.85	749.02	746.02	3.00
5	640+00	46' LT	MANHOLE	1	C	-	749.60	748.35	743.72	4.63
6	640+00	33.5' LT	INLET	3	H	LEFT	748.39	747.66	744.66	3.00
7	640+00	33.5' RT	INLET	3	H	LEFT	748.39	747.66	744.66	3.00
8	641+38	46' LT	MANHOLE	1	C	-	749.72	748.47	743.25	5.22
9	641+38	38.4' LT	INLET	3	H	LEFT	748.94	748.11	745.11	3.00
10	641+38	33.5' RT	INLET	3	H	RIGHT	748.94	748.11	745.11	3.00
11	644+89	44.5' LT	INLET	3	H	RIGHT	748.82	747.99	744.99	3.00
12	645+22	12.5' LT	INLET	3	H	LEFT	748.75	747.92	744.92	3.00
13	644+89	12.5' LT	INLET	3	H	LEFT	748.99	748.16	744.18	3.98
14	644+79	6.5' LT	INLET	3	H	RIGHT	748.51	747.68	744.68	3.00
15	644+89	6.5' LT	INLET	3	H	RIGHT	748.99	748.16	744.06	4.10
16	644+79	44.5' RT	INLET	3	H	RIGHT	748.75	747.92	744.92	3.00
17	644+89	44.5' RT	INLET	3	H	RIGHT	748.69	747.86	743.31	4.55
18	10+38 BALLARD RD.	57' LT	INLET	3	H	LEFT	747.87	747.04	744.04	3.00
19	10+50 BALLARD RD.	6.5' RT	INLET	3	H	RIGHT	748.50	747.67	742.80	5.70
19A	10+27 BALLARD RD.	6.5' RT	INLET	3	H	RIGHT	748.20	747.37	744.37	3.00
20	10+54 BALLARD RD.	50' RT	INLET	3	H	RIGHT	748.08	747.25	743.83	3.42
21	10+46 BALLARD RD.	56' RT	INLET	3	H	RIGHT	747.87	747.04	744.04	3.00
22	10+54 BALLARD RD.	19' RT	MANHOLE	3	**	-	748.71	748.79	739.55	7.24
23	648+00	51.5' LT	INLET	3	H	RIGHT	746.99	746.16	743.16	3.00
24	648+00	0.5' LT	INLET	3	H	LEFT	747.05	746.22	742.16	4.06
25	648+00	5.5' RT	INLET	3	H	RIGHT	747.29	746.46	742.04	4.42
26	648+00	32.5' RT	INLET	3	H	LEFT	747.23	746.40	739.11	7.29
27	649+23	47.2' LT	INLET	3	H	RIGHT	746.40	745.57	742.57	3.00
28	649+55	44.0' LT	INLET	3	H	RIGHT	746.30	745.47	742.04	3.43
29	650+05	39.5' LT	INLET	3	H	RIGHT	746.10	745.27	740.84	4.43
30	650+05	12.5' LT	INLET	3	H	LEFT	746.16	745.33	740.32	5.01
31	650+05	3.5' LT	INLET	1	C	-	745.60	743.85	740.14	3.71
32	650+05	5.5' RT	INLET	3	H	RIGHT	746.16	745.33	739.96	5.37
33	650+05	32.5' RT	INLET	3	H	LT	746.10	745.27	738.69	6.58
34	650+75	39.5' LT	INLET	3	H	RT	745.72	744.89	741.89	3.00
35B	652+37	39.5' LT	INLET	3	H	RT	744.83	744.00	741.00	3.00
35	652+15	12.5' LT	INLET	3	H	LT	745.01	744.18	740.36	3.82
36	652+15	6.5' LT	INLET	3	H	RT	744.77	743.94	740.24	3.70
37	652+15	32.5' RT	INLET	3	H	LT	744.95	744.12	738.19	5.93
38	654+25	39.5' LT	INLET	3	H	RT	743.80	742.97	739.97	3.00
39	654+25	12.5' LT	INLET	3	H	LT	743.06	743.03	739.29	3.74
40	654+25	3.5' LT	INLET	1	C	-	743.80	742.05	739.05	3.00
41	654+25	5.5' RT	INLET	3	H	RT	743.86	743.03	738.87	4.16
42	654+25	32.5' RT	INLET	3	H	LT	743.80	742.97	737.83	5.14
43	656+25	39.5' LT	INLET	3	H	RT	742.70	741.87	738.87	3.00
44	656+25	12.5' LT	INLET	3	H	LT	742.76	741.93	738.35	3.58
45	656+25	3.5' LT	INLET	1	C	-	742.70	740.95	737.95	3.00
46	656+25	5.5' RT	INLET	3	H	RT	742.76	741.93	737.77	4.16
47	656+25	32.5' RT	INLET	3	H	LT	742.70	741.87	737.23	4.64
48B	657+33	39.5' LT	INLET	3	H	RT	742.22	741.39	738.39	3.00
48	658+25	39.5' LT	INLET	3	H	LT	742.09	741.26	737.89	3.37
49	658+25	12.5' LT	INLET	3	H	RT	742.15	741.32	737.49	3.83
50	658+25	3.5' LT	INLET	1	C	-	742.15	740.40	737.36	3.04
51	658+25	5.5' RT	INLET	3	H	LT	742.09	741.26	737.22	4.04
52	658+25	32.5' RT	INLET	3	H	RT	742.09	741.26	736.79	4.47
53	660+65	53' LT	ENDWALL 12-INCH	-	-	-	-	-	738.50	-
54	660+65	39.5' LT	INLET	3	H	LT	742.80	741.97	738.09	3.88
55	660+65	12.5' LT	INLET	3	H	RT	742.86	742.03	737.57	4.46
56	660+65	6.5' RT	INLET	3	H	LT	742.51	741.86	737.45	4.41
57	660+65	44.5' RT	INLET	3	H	RT	742.58	741.75	736.10	5.65
58	10+68 N. ROEMER RD.	33' LT	INLET	3	H	LT	742.77	741.94	738.94	3.00
59	10+68 N. ROEMER RD.	36' RT	INLET	3	H	RT	742.77	741.94	738.94	3.00
60	665+50	39.5' LT	INLET	3	H	RT	742.34	741.51	738.51	3.00
108	640+31	61' RT.	INLET	8	MS	-	748.50		745.30	3.00
2B	636+69	47'LT.	MANHOLE	1	C	-	752.20	750.95	744.85	7.35

MANHOLES, INLETS & COVERS

NO.	STA.	LOCATION	STRUCT.	STRUCT. TYPE	COVER	GRATE	TOP OF COVER ELEV.	TOP OF STRUCT. ELEV.	FLOW LINE ELEV.	DEPTH (FT.)
61	665+40	11.7' LT	INLET	3	H	LT	742.42	741.59	738.59	3.00
62	665+50	3.5' LT	MANHOLE	1	C	-	742.34	741.09	737.09	4.00
63	665+50	5.5' RT	INLET	3	H	RT	742.40	741.57	736.91	4.66
64	665+50	32.5' RT	INLET	3	H	LT	742.34	741.51	734.74	6.77
65	667+50	39.5' LT	INLET	3	H	RT	741.54	740.71	737.71	3.00
66	667+50	12.5' LT	INLET	3	H	LT	741.60	740.77	737.19	3.58
67	667+50	3.5' RT	INLET	1	C	-	741.54	739.79	736.79	3.00
68	667+50	5.5' LT	INLET	3	H	RT	741.60	740.77	735.00	5.77
69	667+50	32.5' RT	INLET	3	H	LT	741.54	740.71	734.58	6.13
70	669+65	39.5' LT	INLET	3	H	RT	740.91	740.08	737.08	3.00
71	669+65	12.5' LT	INLET	3	H	LT	740.97	740.08	736.56	3.52
72	669+65	3.5' LT	MANHOLE	1	C	-	740.91	739.66	734.66	5.00
73	669+65	5.5' RT	INLET	3	H	RT	740.97	740.14	736.56	3.58
74	669+65	32.5' RT	INLET	3	H	LT	740.91	740.08	737.08	3.00
75	672+00	39.5' LT	INLET	3	H	LT	741.80	740.97	737.97	3.00
76	672+00	12.5' LT	INLET	3	H	RT	741.86	741.03	737.45	3.58
77	672+00	3.5' LT	MANHOLE	1	C	-	741.80	740.55	734.08	6.47
78	672+00	5.5' RT	INLET	3	H	LT	741.86	741.03	733.91	7.12
79	672+00	32.5' RT	INLET	3	H	RT	741.80	740.97	732.29	8.68
80	672+80	4.5' RT	INLET	3	H	LT	742.34	741.51	738.51	3.00
81	10+57 N. CONKEY ST.	39' LT	INLET	3	H	LT	742.26	741.43	738.43	3.00
82	10+40 N. CONKEY ST.	14' RT	MANHOLE	3	**	-	742.70	740.78	732.88	7.90
83	10+63 N. CONKEY ST.	40' RT	INLET	3	H	RT	742.34	741.51	738.45	3.00
84	9+46 S. CONKEY ST.	40' LT	INLET	3	H	LT	741.97	741.51	738.51	3.00
85	9+44 S. CONKEY ST.	21' RT	MANHOLE	3	**	-	742.45	740.53	732.58	7.95
86	9+53 S. CONKEY ST	39' RT	INLET	3	H	LT	741.87	741.04	738.04	3.00
87	678+35	43.7' LT	INLET	3	H	LT	741.27	740.44	737.44	3.00
88	678+35	8.3' LT	INLET	3	*	-	741.33	740.50	736.76	3.74
89	678+35	5.5' RT	INLET	3	*	-	741.40	740.57	736.48	4.09
90	678+35	32.5' RT	INLET	3	H	RT	741.34	740.51	735.96	4.55
91	678+35	53' RT	MANHOLE	1	C	-	738.40	736.48	733.25	3.23
92	681+10	39.5' LT	INLET	3	H	LT	742.83	742.00	739.00	3.00
93	681+10	12.5' LT	INLET	3	*	-	742.89	742.06	738.48	3.58
94	681+10	5.5' RT	INLET	3	*	-	742.89	742.06	738.12	3.94
95	681+10	32.5' RT	INLET	3	H	RT	742.83	742.00	737.60	4.40
96	681+10	53' RT	MANHOLE	1	C	-	743.10	741.85	735.18	6.00
97	6+47 BALLARD RD.	32.5' LT	INLET	3	H	RT	746.45	745.62	742.62	3.00
98	6+57 BALLARD RD.	32.5' LT	INLET	3	H	RT	746.40	745.57	742.42	3.15
100	6+74 BALLARD RD.	44.7' RT	INLET	3	H	LT	746.23	745.40	742.40	3.00
101	6+84 BALLARD RD.	45.7' RT	INLET	3	H	RT	746.18	745.35	742.20	3.15
102	7+64 BALLARD RD.	0.5' RT	INLET	3	H	LT	746.75	745.92	742.92	3.00
103	7+64 BALLARD RD.	32.5' LT	INLET	3	H	LT	746.45	745.62	742.62	3.00
104	13+51 BALLARD RD.	32.9' LT	INLET	3	H	LT	750.61	749.78	746.93	2.85
105	13+54 BALLARD RD.	36.6' LT	INLET	3	H	RT	750.65	749.82	747.58	2.24
2A	637+00	47' LT	ENDWALL 24-INCH							
26A	648+00	65' RT	ENDWALL 18-INCH							
33A	650+05	65' RT	ENDWALL 18-INCH							
37A	652+15	65' RT	ENDWALL 18-INCH							
42A	654+25	65' RT	ENDWALL 18-INCH							
47A	656+25	65' RT	ENDWALL 18-INCH							
52A	658+25	65' RT	ENDWALL 18-INCH							
57A	660+65	65' RT	ENDWALL 18-INCH							
64A	665+50	69' RT	ENDWALL 18-INCH							
69A	667+50	71' RT	ENDWALL 18-INCH							
79A	672+00	71' RT	ENDWALL 18-INCH							

*INLET COVER, SPECIAL,(Non-Participating)
** CITY FURNISHED MANHOLE COVERS,(Non-Participating)

STATE PROJECT NUMBER	SHEET NO.
4989-00-83	3F

DETAILS

SUMMARY OF MISCELLANEOUS QUANTITIES

STORM SEWER

LOCATION FROM	LOCATION TO	DIAMETER (INCHES)	L.F.	TYPE	ELEVATION INLET	ELEVATION DISCHARGE	REMARKS
1	1-A	12	5	R.C.P., CL III	746.70	746.50	
2-A	2	24	150	R.C.P., CL III	747.95	744.47	4 JOINT TIES & APRON ENDWALL REQ'D
2	5	24	150	R.C.P., CL III	744.47	743.96	
5	8	24	138	R.C.P., CL III	743.96	743.49	
8	8-A	24	145	R.C.P., CL III	743.49	743.00	
3	2	12	10	R.C.P., CL III	746.19	745.69	
4	4-A	12	18	R.C.P., CL III	746.19	745.69	
6	5	12	10	R.C.P., CL III	744.83	744.33	
7	7-A	12	18	R.C.P., CL III	744.83	744.33	
9	8	12	10	R.C.P., CL III	745.28	744.78	
10	10-A	12	18	R.C.P., CL III	745.28	744.78	
11	13	12	32	R.C.P., CL III	745.16	744.52	
12	13	12	33	R.C.P., CL III	745.09	744.89	
14	15	12	33	R.C.P., CL III	745.09	744.89	
13	15	12	6	R.C.P., CL III	744.35	744.28	
15	17	12	50	R.C.P., CL III	744.23	743.28	
16	17	12	10	R.C.P., CL III	745.09	744.99	
17	17-A	12	22	R.C.P., CL III	743.28	742.84	
18	19	12	62	R.C.P., CL III	744.21	742.97	
19	22	12	13	R.C.P., CL III	742.97	742.71	
19A	19	12	23	R.C.P., CL III	747.54	745.54	
21	20	12	10	R.C.P., CL III	744.21	744.00	
20	22	12	30	R.C.P., CL III	744.00	743.00	
23	24	12	50	R.C.P., CL III	743.33	742.33	
24	25	12	6	R.C.P., CL III	742.33	742.21	
25	26	12	26	R.C.P., CL III	742.21	741.69	
26	26-A	18	32	R.C.P., CL III	739.32	739.12	4 JOINT TIES & APRON ENDWALL REQ'D
27	28	12	32	R.C.P., CL III	742.57	742.21	
27-A	27	15	5	Pipe Underdrain, Unperforated	743.59	743.50	
28-A	28	12	5	Pipe Underdrain, Unperforated	743.57	743.47	
28	29	12	50	R.C.P., CL III	742.21	741.64	
29	30	12	26	R.C.P., CL III	741.01	740.49	
30	31	12	9	R.C.P., CL III	740.49	740.31	
31	32	12	9	R.C.P., CL III	740.31	740.13	
32	33	12	26	R.C.P., CL III	740.13	739.61	
33	33-A	18	32	R.C.P., CL III	738.90	738.70	4 JOINT TIES & APRON ENDWALL REQ'D
34-A	34	6	6	Pipe Underdrain, Unperforated	743.17	743.07	
34	29	12	70	R.C.P., CL III	742.06	741.01	
35-A	35-B	12	8	Pipe Underdrain, Unperforated	742.15	742.00	
35-B	35	12	32	R.C.P., CL III	741.17	740.53	
35	36	12	6	R.C.P., CL III	740.53	740.41	
36	37	12	38	R.C.P., CL III	740.41	739.65	
37	37-A	18	32	R.C.P., CL III	738.40	738.20	4 JOINT TIES & APRON ENDWALL REQ'D
1-B	2-B	8	10	Pipe Underdrain, Unperforated	743.61	743.60	
1-C	2-C	8	10	Pipe Underdrain, Unperforated	743.67	743.55	
38	39	12	26	R.C.P., CL III	740.14	739.46	
39	40	12	9	R.C.P., CL III	739.46	739.22	
40	41	12	9	R.C.P., CL III	739.22	739.04	
41	42	12	26	R.C.P., CL III	739.04	738.52	
42	42-A	18	32	R.C.P., CL III	738.04	737.84	4 JOINT TIES & APRON ENDWALL REQ'D
43	44	12	26	R.C.P., CL III	739.04	738.52	
44	45	12	9	R.C.P., CL III	738.52	738.12	
45	46	12	9	R.C.P., CL III	738.12	737.94	
46	47	12	26	R.C.P., CL III	737.94	737.44	
47	47-A	18	32	R.C.P., CL III	737.44	737.24	4 JOINT TIES & APRON ENDWALL REQ'D
48-A	48-B	12	12	Pipe Underdrain, Unperforated	739.87	738.56	
48-B	48	12	92	R.C.P., CL III	738.56	738.06	
108	108A	12	12	R.C.P. CL III	745.50	744.05	

STORM SEWER

LOCATION FROM	LOCATION TO	DIAMETER (INCHES)	L.F.	TYPE	ELEVATION INLET	ELEVATION DISCHARGE	REMARKS
48	49	12	26	R.C.P., CL III	738.06	737.66	
49	50	12	9	R.C.P., CL III	737.66	737.53	
50	51	12	9	R.C.P., CL III	737.53	737.39	
51	52	12	26	R.C.P., CL III	737.39	737.00	
52	52-A	18	32	R.C.P., CL III	737.00	736.80	4 JOINT TIES & APRON ENDWALL REQ'D
53	54	12	12	R.C.P., CL III	738.50	738.26	4 JOINT TIES & APRON ENDWALL REQ'D.
54	55	12	26	R.C.P., CL III	738.26	737.74	
55	56	12	6	R.C.P., CL III	737.74	737.62	
56	57	12	50	R.C.P., CL III	737.62	736.31	
57	57-A	18	20	R.C.P., CL III	736.31	736.16	4 JOINT TIES & APRON ENDWALL REQ'D
58	58-A	12	58	R.C.P., CL III	739.11	738.11	
59	58-A	12	25	R.C.P., CL III	739.11	738.61	
60	62	12	35	R.C.P., CL III	738.68	737.98	
61	62	12	12	R.C.P., CL III	738.76	737.26	
62	63	12	9	R.C.P., CL III	737.26	737.08	
63	64	12	26	R.C.P., CL III	737.08	736.56	
64	64-A	18	36	R.C.P., CL III	734.95	734.70	4 JOINT TIES & APRON ENDWALL REQ'D
65	66	12	26	R.C.P., CL III	737.88	737.36	
66	67	12	9	R.C.P., CL III	737.36	736.96	
67	68	12	9	R.C.P., CL III	736.96	736.78	
68	69	12	26	R.C.P., CL III	736.78	736.26	
69	69-A	18	38	R.C.P., CL III	734.79	734.54	4 JOINT TIES & APRON ENDWALL REQ'D
70	71	12	26	R.C.P., CL III	737.25	736.73	
71	72	12	9	R.C.P., CL III	736.73	736.23	
73	72	12	9	R.C.P., CL III	736.73	736.23	
74	73	12	26	R.C.P., CL III	737.25	736.73	
75	76	12	26	R.C.P., CL III	738.14	737.62	
76	77	12	9	R.C.P., CL III	737.62	737.12	
72	77	18	235	R.C.P., CL III	734.87	733.87	
77	78	18	9	R.C.P., CL III	733.87	733.70	
78	79	18	26	R.C.P., CL III	733.70	733.20	
79	79-A	18	38	R.C.P., CL III	732.50	732.25	4 JOINT TIES & APRON ENDWALL REQ'D
80	77	12	80	R.C.P., CL III	738.68	735.87	
81	82	12	53	R.C.P., CL III	738.60	737.54	
83	82	12	30	R.C.P., CL III	738.62	737.54	
84	85	12	60	R.C.P., CL III	738.68	737.48	
86	85	12	20	R.C.P., CL III	738.21	737.81	
87	88	12	34	R.C.P., CL III	737.61	736.93	
88	89	12	14	R.C.P., CL III	736.93	736.65	
89	90	12	26	R.C.P., CL III	736.65	736.13	
90	91	12	20	R.C.P., CL III	736.13	733.49	
91	85	24	245	R.C.P., CL III	733.49	733.00	
92	93	12	26	R.C.P., CL III	739.17	738.65	
93	94	12	18	R.C.P., CL III	738.65	738.29	
94	95	12	26	R.C.P., CL III	738.29	737.77	
95	96	12	20	R.C.P., CL III	737.77	737.67	
96	91	18	275	R.C.P., CL III	735.28	733.49	
97	98	12	10	R.C.P., CL III	742.79	742.59	
98	99-B	12	30	R.C.P., CL III	742.59	742.09	TIE DIRECTLY TO 60-INCH STORM SEWER
100	101	12	10	R.C.P., CL III	742.57	742.37	
101	99-A	12	20	R.C.P., CL III	742.37	741.87	
102	103	12	32	R.C.P., CL III	743.09	742.79	
103	99	12	80	R.C.P., CL III	742.79	742.09	TIE DIRECTLY TO 60-INCH STORM SEWER
104	104-A	12	5	R.C.P., CL III	747.10	747.00	
105	105-A	12	8	R.C.P., CL III	747.75	747.71	
106-A	106-B	72	55	R.C.P., CL III	741.16	740.36	
107-A	107-B	60	20	R.C.P., CL III	738.82	738.70	

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	36

MISCELLANEOUS QUANTITIES
FOR
C.T.H. "00" OUTAGAMIE CO.

SILT FENCE, DELIVERED, INSTALLED, & MAINTAINED

LOCATION	QUANTITY
UNDISTRIBUTED	500 L.F.

EROSION CONTROL MAT, DELIVERED & INSTALLED

LOCATION	QUANTITY (S.Y.)
STORM SEWER OUTFALLS: 26A, 33A, 37A, 42A, 47A, 52A, 57A, 64A, 69A, 79A	225

SOD

STA. to STA.	LOCATION	QUANTITY (S.Y.)
641+80 to 642+85	C.T.H. "00", MEDIAN	184
648+83 to 659+42	" "	305
653+50 to 660+62	" "	1,265
664+28 to 673+90	" "	1,658
DRAINAGE STRUCTURES	2A 1 53	30
		3,147

TRAFFIC CONTROL

LOCATION	STAGE		ARROWBOARDS (DAYS)		DRUMS (DAYS)		SIGNS (DAYS)		BARRICADES (DAYS)		WARNING LIGHTS TYPE "A" (DAYS)		WARNING LIGHTS TYPE "C" (DAYS)	
		A	B	AxB	B	AxB	B	AxB	B	AxB	B	AxB	B	AxB
C.T.H. "00"	1	61	1	61	26	1586	16	976	2	122	4	244	8	488
C.T.H. "00"	2	14	1	14	74	1036	25	350	6	84	12	168	8	112
C.T.H. "00"	3	30	3	90	130	3900	46	1380	12	360	24	720	32	960
C.T.H. "00"	4	31	3	91	115	3565	47	1457	12	372	24	744	32	992
BALLARD RD.	5	32	2	64	53	1696	30	960	4	128	8	256	24	768
BALLARD RD.	6	36	2	72	60	2160	29	1044	8	288	16	576	24	864
				392		13,943		6,167		1,354		2,708		4,184

A = SERVICE PERIOD (DAYS)
B = NUMBER IN SERVICE

TEMPORARY PAVEMENT MARKING (NON-PARTICIPATING)

STA. TO STA.	LOCATION	QUANTITY (L.F.)	REMARKS
635+00 TO 685+00	C.T.H. "00" (STAGE 3)	10,000	DOUBLE YELLOW C/L
2+00 TO 16+00	BALLARD RD. (STAGE 5)	2,800	DOUBLE YELLOW C/L
		12,800	

TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE (NON-PARTICIPATING)

STA. TO STA.	LOCATION	QUANTITY (L.F.)	REMARKS
635+00 TO 685+00	C.T.H. "00" (STAGE 4)	10,000	DOUBLE YELLOW C/L
2+80 TO 16+00	BALLARD RD. (STAGE 6)	2,800	DOUBLE YELLOW C/L
		12,800	

REMOVING PAVEMENT MARKINGS (NON-PARTICIPATING)

STA. TO STA.	LOCATION	QUANTITY (L.F.)	REMARKS
635+00 TO 685+00	C.T.H. "00" (STAGE 2)	5,000	EDGE LINE
635+00 TO 685+00	C.T.H. "00" (STAGE 2)	1,250	LANE LINE
632+00 TO 635+00	C.T.H. "00" (STAGE 3)	600	DOUBLE YELLOW C/L
684+00 TO 687+00	C.T.H. "00" (STAGE 3)	600	DOUBLE YELLOW C/L
2+00 TO 16+00	BALLARD RD. (STAGE 5)	350	LANE LINE
0+80 TO 2+80	BALLARD RD. (STAGE 5)	200	DOUBLE YELLOW C/L
15+50 TO 17+50	BALLARD RD. (STAGE 5)	200	DOUBLE YELLOW C/L

TOPSOIL, SEED, FERTILIZER, AND MULCH

STA. TO STA.	LOCATION	TOPSOIL S.Y.	FERTILIZER CWT.	SEED, No.40 LBS.	MULCH
635+50 TO 685+00	C.T.H. "00" (STAGE 3)	12,885	8.1	232	12,885
635+50 TO 684+00	* C.T.H. "00" (STAGE 4)	11,975	5.6	160	8,868
2+80 TO 15+25	BALLARD RD. (STAGE 5)	1,635	1.0	30	1,635
2+80 TO 13+75	BALLARD RD. (STAGE 6)	1,060	0.7	10	1,060
		27,555	15.4	432	24,448

* = INCLUDES MEDIAN

STATE PROJECT NUMBER	SHEET NO
4989-00-83	3H
DETAILS	
SUMMARY OF MISCELLANEOUS QUANTITIES	

(NON-PARTICIPATING)

*TRAFFIC & **PEDESTRIAN SIGNAL FACES, MAST ARMS, PEDESTRIAN BUTTONS

LOCATION	3-12 VERT. (EACH)	3-12 HORIZ. (EACH)	MODIFIED 5-12 VERT. (EACH)	MODIFIED 5-12 HORIZ. (EACH)	MAST ARM 16-FT (EACH)	PED. FACE (EACH)	PED. BUTTON (EACH)	BACKPLATES (EACH)
A1	⊛ RELOCATE	-	-	-	-	1	1	-
A2	-	-	-	RELOCATE	RELOCATE	-	-	1
A3	-	-	RELOCATE	-	-	-	-	1
B1	⊛ RELOCATE	-	-	-	-	-	-	-
B2	-	-	-	RELOCATE	RELOCATE	1	1	1
B3	-	-	RELOCATE	-	-	-	-	1
C1	⊛ RELOCATE	-	-	-	-	-	-	-
C2	-	-	-	RELOCATE	RELOCATE	1	1	1
C3	-	-	RELOCATE	-	-	-	-	1
D1	⊛ RELOCATE	-	-	-	-	1	1	-
D2	-	-	-	RELOCATE	RELOCATE	-	-	1
D3	-	-	RELOCATE	-	-	-	-	1
E1	1	-	-	-	-	-	-	1
E2	-	1	-	-	1	-	-	1
E3	1	-	-	-	-	-	-	1
F1	1	-	-	-	-	-	-	1
F2	1	-	-	-	-	-	-	1
F3	1	-	-	-	-	-	-	1
G1	1	-	-	-	-	-	-	1
G2	-	1	-	-	1	-	-	1
G3	1	-	-	-	-	-	-	1
H1	1	-	-	-	-	-	-	1
H2	1	-	-	-	-	-	-	1
H3	1	-	-	-	-	-	-	1
	10	2	4	4	2	4	4	20

*All Traffic Signal Faces to have Backplates

**Pedestrian Signal Faces shall be 12-inches square with 4-1 2" Letter Heights

⊛ THESE FACES HAVE AN EXISTING BACKPLATE

PULL BOXES

BOX NO.	STATION	LOCATION	12"x24" (EACH)	24"x36" (EACH)
PB1	645+40	C.T.H."OO", 9.5' LT		1
PB2	645+42	C.T.H. "OO", 61 RT		1
PB4	8+57	BALLARD RD, 46' LT	1	
PB5	9+15	BALLARD RD, 2.5' LT		1
PB6	9+17	BALLARD RD, 70' RT		1
PB8	647+15	C.T.H. "OO", 39' RT	1	
PB9	646+58	C.T.H. "OO", 2.5' RT		1
PB11	10+40	BALLARD RD, 61' RT		1
PB13	10+31	BALLARD RD, 9.5' RT		1
PB14	10+90	BALLARD RD, 57' LT	1	
PB16	10+30	C.T.H. "OO", 61' LT		1
PB17	645+82	C.T.H. "OO", 46' LT	1	
PB18	661+52	C.T.H. "OO", 9.5' LT		1
PB19	661+92	C.T.H. "OO", 53' RT		1
PB20	662+91	C.T.H. "OO", 49' RT		1
PB21	663+37	C.T.H. "OO", 2.5' RT		1
PB22	10+70	N. ROEMER RD, 37' RT		1
PB23	10+70	N. ROEMER RD, 34' LT		1
PB24	661+92	C.T.H. "OO", 52' LT		1
PB25	10+93	N. ROEMER RD, 36' RT		1
			4	16

TRAFFIC SIGNAL WIRE & CABLE

(NON-PARTICIPATING)

BALLARD ROAD

RUN NO.	FROM	ROUTING	TO	TRAFFIC SIGNAL CABLE 7-COND. NO. 14 L.F.	TRAFFIC SIGNAL CABLE 9-COND. NO. 14 L.F.	TRAFFIC SIGNAL WIRE NO. 10 L.F.
A1	CB-1	PB-11, PB-13, PB-16, PB-1, PB-2	A1		295	
A2	CB-1	PB-11, PB-9, PB-6	A2		166	
A3	CB-1	PB-11, PB-9	A3		107	
B1	CB-1	PB-11, PB-9, PB-6	B1	174		
B2	CB-1	PB-11	B2		43	
B3	CB-1	PB-11, PB-13	B3		87	
C1	CB-1	PB-11	C1	50		
C2	CB-1	PB-11, PB-13, PB-16	C2		165	
C3	CB-1	PB-11, PB-13, PB-16, PB-1	C3		150	
D1	CB-1	PB-11, PB-13, PB-16	D1		173	
D2	CB-1	PB-11, PB-9, PB-6, PB-5, PB-2	D2		289	
D3	CB-1	PB-11 PB-9, PB-6, PB-5	D3		230	
	CB-1	PB-11	B2		Neutral & Ground (2 x 43)	86
	B2	PB-11, PB-13	B3		(2 x 86)	172
	B3	PB-13, PB-16	D1		(2 x 112)	224
	D1	PB-16	C2		(2 x 48)	96
	C2	PB-16, PB-1	C3		(2 x 85)	170
	C3	PB-1, PB-2	A1		(2 x 111)	222
	CB-1	PB-11	C1		(2 x 50)	100
	C1	PB-11, PB-9	A3		(2 x 113)	226
	A3	PB-9, PB-6	A2		(2 x 85)	170
	A2	PB-6	B1		(2 x 48)	96
	B1	PB-6, PB-5	D3		(2 x 112)	224
	D3	PB-5, PB-2	D2		(2 x 85)	170
ROEMER ROAD						
E1	CB-2	PB-22, PB-23, PB-24, PB-18, PB-19	E1	293		
E2	CB-2	PB-22, PB-21, PB-20	E2		225	
E3	CB-2	PB-22, PB-21	E3	139		
F1 H3	CB-2	PB-22, PB-21, PB-20	F1 H3		220	
F2	CB-2	PB-22	F2	59		
F3 H1	CB-2	PB-22, PB-23	F3 H1		131	
G1	CB-2	PB-22	G1	64		
G2	CB-2	PB-22, PB-23, PB-24	G2		159	
G3	CB-2	PB-22, PB-23, PB-24, PB-18	G3	207		
H2	CB-2	PB-22, PB-21, PB-20, PB-19	H2	317		
	CB-2	PB-22	F2		(2 x 59)	118
	F2	PB-22, PB-23	F3 H1		(2 x 118)	236
	F3 H1	PB-23, PB-24	G2		(2 x 74)	148
	G2	PB-24, PB-18	G3		(2 x 94)	188
	G3	PB-18, PB-19	E1		(2 x 112)	224
	CB-2	PB-22	G1		(2 x 64)	128
	G1	PB-22, PB-21	E3		(2 x 131)	162
	E3	PB-21, PB-20	E2		(2 x 112)	224
	E2	PB-20	H3 F1		(2 x 61)	122
	H3 F1	PB-20, PB-19	H2		(2 x 153)	306
				1,303	2,440	3,812

NON-METALLIC CONDUIT

(NON-PARTICIPATING)

FROM	TO	NON-METALLIC CONDUIT 1 1/2-INCH (L.F.)	NON-METALLIC CONDUIT 3-INCH (L.F.)
PB1	PB2	-	71
PB4	PB2	52	-
PB2	PB5	-	52
PB5	PB6	-	71
PB6	PB9	-	52
PB6	PB8	54	-
PB9	PB11	-	72
PB11	PB13	-	52
PB13	PB16	-	71
PB14	PB16	60	-
PB17	PB16	53	-
PB16	PB1	-	52
C3	PB1	-	5
A1	PB2	-	19
D2	PB2	-	12
D3	PB5	-	5
B1	PB6	-	20
A2	PB6	-	12
A3	PB9	-	5
C1	PB11	-	20
CB1	PB11	-	(2 x 14) 28
B2	PB11	-	13
B3	PB13	-	5
D1	PB16	-	20
C2	PB16	-	12
PB18	PB19	-	73
PB19	PB20	-	100
PB20	PB21	-	66
PB21	PB22	-	90
PB22	PB23	-	72
PB23	PB24	-	28
G3	PB18	-	5
E1	PB19	-	18
H2	PB19	-	17
F1 (H3)	PB20	-	20
E3	PB21	-	5
G1	PB22	-	20
F2	PB22	-	15
F3 (H1)	PB23	-	15
G2	PB24	-	15
CB2	PB22	-	(2 x 28) 56
PB18	PB24	-	58
E2	PB20	-	25
C.T.H. "OO"/ CONKEY ST. INTERSECTION			310
		219	1,677

STATE PROJECT NUMBER	SHEET NO
4989-00-83	31

DETAILS
SUMMARY OF MISCELLANEOUS QUANTITIES

PAVEMENT MARKING, EPOXY

(NON-PARTICIPATING)

STATION TO STATION	LOCATION	4-INCH YELLOW CENTERLINE & EDGELINE LIN. FT.	4-INCH WHITE EDGE LINE LIN. FT.	4-INCH WHITE DASHED LIN. FT.	8-INCH WHITE CHANNEL-IZATION LIN. FT.	8-INCH YELLOW DIAGONAL LIN. FT.	4-INCH YELLOW CURBLINE LIN. FT.	4-INCH YELLOW DASHED LIN. FT.	ISLAND NOSE MARKING SQ. FT.	LIN. FT. STOP LINE 18-INCH	LIN. FT. CROSS-WALK 6-INCH	EACH ARROWS TYPE 2	WORDS EACH	CURB RAMPS LIN. FT.
634+00 TO 645+25	C.T.H. "OO", EB & WB	2,250												
641+80 TO 642+00	C.T.H. "OO", EB						25							
635+50 TO 637+00	C.T.H. "OO", EB & WB		300											
635+50 TO 642+00	C.T.H. "OO", EB & WB					350								
635+50 TO 645+25	C.T.H. "OO", EB & WB			490										
645+25 TO 645+50	C.T.H. "OO", EB & WB								36					
643+65 TO 645+25	C.T.H. "OO", EB, Lt & Rt Turn Lanes				320				36	50	160	4	2	50
646+75 TO 648+83	C.T.H. "OO", WB, Lt & Rt Turn Lanes				420				36	50		4	2	
646+75 TO 661+80	C.T.H. "OO", EB & WB			750										
646+75 TO 652+32	C.T.H. "OO", EB & WB	1,115												
651+32 TO 652+32	C.T.H. "OO", EB, Lt Turn Lane				100				36			2	1	
653+50 TO 661+80	C.T.H. "OO", EB & WB	1,660							36					
660+62 TO 661+80	C.T.H. "OO", EB, Lt & Rt Turn Lanes				220				36	50		4	2	
-	ROEMER ROAD, N & S									50				
663+28 TO 664+28	C.T.H. "OO", WB, Lt & Rt Turn Lanes				200				36	50		4	2	
663+28 TO 675+15	C.T.H. "OO", EB & WB	2,375												
663+28 TO 675+15	C.T.H. "OO", EB & WB			800										
673+89 TO 675+15	C.T.H. "OO", EB, Lt & Rt Turn Lanes				260				36			4	2	
676+30 TO 677+57	C.T.H. "OO", WB, Lt & Rt Turn Lanes				260				36			4	2	
676+30 TO 684+00	C.T.H. "OO", EB & WB	1,540		390										
-	CONKEY STREET, NB & SB									50				
2+80 TO 6+60	BALLARD ROAD, NB & SB	760				160								
-	LONGVIEW DRIVE									15				
2+80 TO 9+05	BALLARD ROAD, NB & SB			315										
7+48 TO 9+05	BALLARD ROAD, NB & SB	315							36					
7+48 TO 9+05	BALLARD RD, NB, Lt & Rt Turn Lanes				315				36	50		4	2	
10+40 TO 15+25	BALLARD ROAD, NB & SB	970		250										
10+40 TO 12+35	BALLARD RD, SB, Lt & Rt Turn Lanes				390				36	50	160	4	2	50
12+35 TO 13+55	BALLARD ROAD, NB & SB					70								
13+55 TO 15+25	BALLARD ROAD, NB & SB							85						
		10,985	300	2,795	2,485	580	25	85	432	415	320	34	17	100

LOOP DETECTORS (NON-PARTICIPATING)

NO.	LOCATION	LOOP DETECTOR CONDUIT, 1 1/2-INCH (L.F.)	LOOP DETECTOR WIRE (L.F.)	LOOP DETECTOR LEAD IN CABLE (L.F.)	LOOP DETECTOR SIZE (L.F.)	NO. OF TURNS
11	C.T.H. 'OO' EB, LT. TURN LANE	94	300	242	6 x 20	3
31	BALLARD RD. NB, LT. TURN LANE	101	314	348	6 x 20	3
51	C.T.H. 'OO' WB, LT. TURN LANE	94	300	223	6 x 20	3
71	BALLARD RD. SB, LT. TURN LANE	105	322	190	6 x 20	3
		394	1,236	1,003		

(NON-PARTICIPATING) LOOP DETECTOR AMPLIFIER

LOCATION	L.S.
BALLARD ROAD	1

RELOCATE TRAFFIC SIGNALS & SIGNAL FACE MODIFICATIONS

(NON-PARTICIPATING)

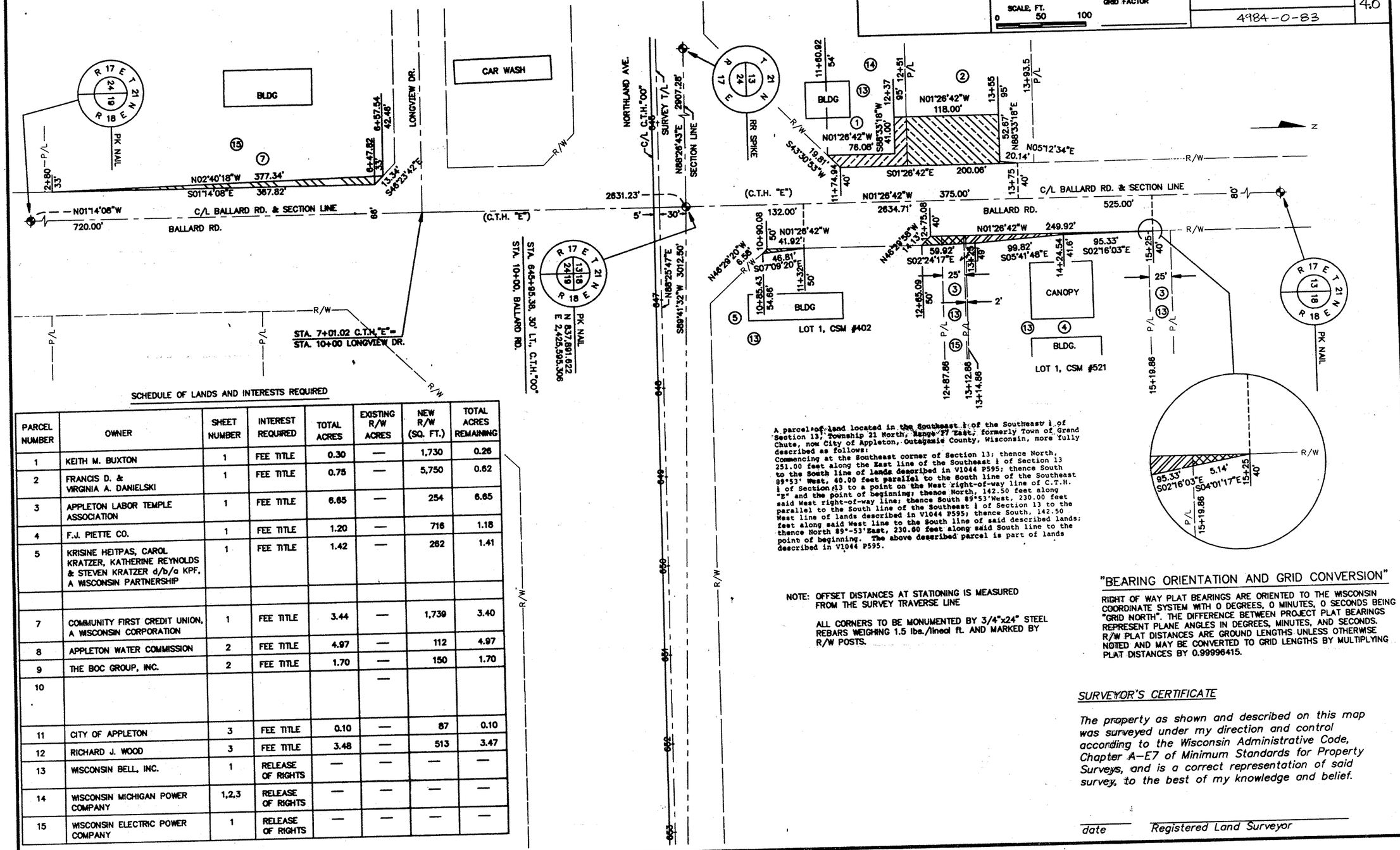
FROM STA.	LOCATION	TO	REMARKS
645+21	C.T.H. "OO", 28' RT	A1	STANDARD, PED. BASE, 3-12 VERT. FACE
645+21	C.T.H. "OO", 28' RT	C3	4-12 VERT. FACE (MODIFY TO 5-12 VERT. FACE)
645+23	C.T.H. "OO", 30' LT	C2	TRANS. BASE, POLE, 4-12 HORIZ. FACE, & MAST ARM (MODIFY TO 5-12 VERT. FACE)
9+15	BALLARD ROAD, 32' LT	D2	TRANS. BASE, POLE, 4-12 HORIZ. FACE, & MAST ARM (MODIFY TO 5-12 VERT. FACE)
10+47	BALLARD ROAD, 27' LT	D1	STANDARD, PED. BASE, 3-12 VERT. FACE
10+47	BALLARD ROAD, 27' LT	B3	4-12 VERT. FACE (MODIFY TO 5-12 VERT. FACE)
10+47	BALLARD ROAD, 27' RT	B2	TRANS. BASE, POLE, 4-12 HORIZ. FACE, & MAST ARM (MODIFY TO 5-12 VERT. FACE)
9+15	BALLARD ROAD, 32' RT	B1	STANDARD, PED. BASE, 3-12 VERT. FACE
9+15	BALLARD ROAD, 32' RT	D3	4-12 VERT. FACE (MODIFY TO 5-12 VERT. FACE)
646+72	C.T.H. "OO", 29' RT	A2	TRANS. BASE, POLE, 4-12 HORIZ. FACE, & MAST ARM, (MODIFY TO 5-12 VERT. FACE)
646+72	C.T.H. "OO", 32' LT	C1	STANDARD, PED. BASE, 3-12 VERT. FACE
646+72	C.T.H. "OO", 32' LT	A3	4-12 VERT. FACE (MODIFY TO 5-12 VERT. FACE)

CONCRETE BASES, SIGNAL STANDARDS & POLES, TRANSFORMER AND PEDESTAL BASES

(NON-PARTICIPATING)

STATION	LOCATION	DESIG-NATION	CONC. BASE, TYPE-1	CONC. BASE, TYPE-2	CONC. BASE, TYPE-9	SIGNAL STANDARD,	POLE, TYPE-2	TRANS-FORMER BASE	PEDES. BASE
645+25	C.T.H. "OO", 52' RT	A1	1			RELOC(13')			RELOC
646+74	C.T.H. "OO", 45' RT	A2		1			RELOC	RELOC	
646+64	C.T.H. "OO", 2.5' RT	A3	1			1-(15')			1
9+00	BALLARD, 59' RT	B1	1			RELOC(13')			RELOC
10+50	BALLARD, 52' RT	B2		1			RELOC	RELOC	
10+37	BALLARD, 9.5' RT	B3	1			1-(15')			1
646+74	C.T.H. "OO", 59' LT	C1	1			RELOC(13')			RELOC
645+25	C.T.H. "OO", 53' LT	C2		1			RELOC	RELOC	
645+35	C.T.H. "OO", 9.5' LT	C3	1			1-(15')			1
10+48	BALLARD, 51' LT	D1	1			RELOC(13')			RELOC
9+00	BALLARD, 45' LT	D2		1			RELOC	RELOC	
9+10	BALLARD, 2.5' LT	D3	1			1-(15')			1
10+51	BALLARD, 75' RT	CB1			1			1	
661+75	C.T.H. "OO", 48' RT	E1	1			1-(13')			1
663+24	C.T.H. "OO", 41' RT	E2		1			1	1	
663+43	C.T.H. "OO", 2.5' RT	E3	1			1-(13')			1
9+37	S. ROEMER, 34' RT	F1	1			1-(13')			1
10+85	N. ROEMER, 30' RT	F2	1			1-(13')			1
10+85	N. ROEMER, 30' RT	F3	1			1-(13')			1
663+02	C.T.H. "OO", 57' LT	G1	1			1-(13')			1
661+77	C.T.H. "OO", 48' LT	G2		1			1	1	
661+48	C.T.H. "OO", 9.5' LT	G3	1			1-(13')			1
9+37	S. ROEMER, 38' LT	H2	1			1-(13')			1
11+00	N. ROEMER, 35' RT	CB2			1			1	
			16	6	2	8-(13') 4-(15')	2	4	12

REVISION DATE	ROUTE	COUNTY	DATE	STATE PROJECT NUMBER	SHEET NUMBER
	C.T.H. "00"	OUTAGAMIE		4984-00-83	4.0
	SCALE, FT. 0 50 100	GRID FACTOR		FEDERAL PROJECT NUMBER 4984-0-83	



SCHEDULE OF LANDS AND INTERESTS REQUIRED

PARCEL NUMBER	OWNER	SHEET NUMBER	INTEREST REQUIRED	TOTAL ACRES	EXISTING R/W ACRES	NEW R/W (SQ. FT.)	TOTAL ACRES REMAINING
1	KEITH M. BUXTON	1	FEE TITLE	0.30	—	1,730	0.26
2	FRANCIS D. & VIRGINIA A. DANIELSKI	1	FEE TITLE	0.75	—	5,750	0.62
3	APPLETON LABOR TEMPLE ASSOCIATION	1	FEE TITLE	6.65	—	254	6.65
4	F.J. PIETTE CO.	1	FEE TITLE	1.20	—	716	1.18
5	KRISINE HEITPAS, CAROL KRATZER, KATHERINE REYNOLDS & STEVEN KRATZER d/b/a KPF, A WISCONSIN PARTNERSHIP	1	FEE TITLE	1.42	—	262	1.41
7	COMMUNITY FIRST CREDIT UNION, A WISCONSIN CORPORATION	1	FEE TITLE	3.44	—	1,739	3.40
8	APPLETON WATER COMMISSION	2	FEE TITLE	4.97	—	112	4.97
9	THE BOC GROUP, INC.	2	FEE TITLE	1.70	—	150	1.70
10					—		
11	CITY OF APPLETON	3	FEE TITLE	0.10	—	87	0.10
12	RICHARD J. WOOD	3	FEE TITLE	3.48	—	513	3.47
13	WISCONSIN BELL, INC.	1	RELEASE OF RIGHTS	—	—	—	—
14	WISCONSIN MICHIGAN POWER COMPANY	1,2,3	RELEASE OF RIGHTS	—	—	—	—
15	WISCONSIN ELECTRIC POWER COMPANY	1	RELEASE OF RIGHTS	—	—	—	—

A parcel of land located in the Southeast ¼ of the Southeast ¼ of Section 13, Township 21 North, Range 17 East, formerly Town of Grand Chute, now City of Appleton, Outagamie County, Wisconsin, more fully described as follows:
Commencing at the Southeast corner of Section 13; thence North, 251.00 feet along the East line of the Southeast ¼ of Section 13 to the South line of lands described in V1044 P595; thence South 89°53' West, 40.00 feet parallel to the South line of the Southeast ¼ of Section 13 to a point on the West right-of-way line of C.T.H. "E" and the point of beginning; thence North, 142.50 feet along said West right-of-way line; thence South 89°53'West, 230.00 feet parallel to the South line of the Southeast ¼ of Section 13 to the West line of lands described in V1044 P595; thence South, 142.50 feet along said West line to the South line of said described lands; thence North 89°-53'East, 230.00 feet along said South line to the point of beginning. The above described parcel is part of lands described in V1044 P595.

NOTE: OFFSET DISTANCES AT STATIONING IS MEASURED FROM THE SURVEY TRAVERSE LINE

ALL CORNERS TO BE MONUMENTED BY 3/4"x24" STEEL REBARS WEIGHING 1.5 lbs./lineal ft. AND MARKED BY R/W POSTS.

"BEARING ORIENTATION AND GRID CONVERSION"

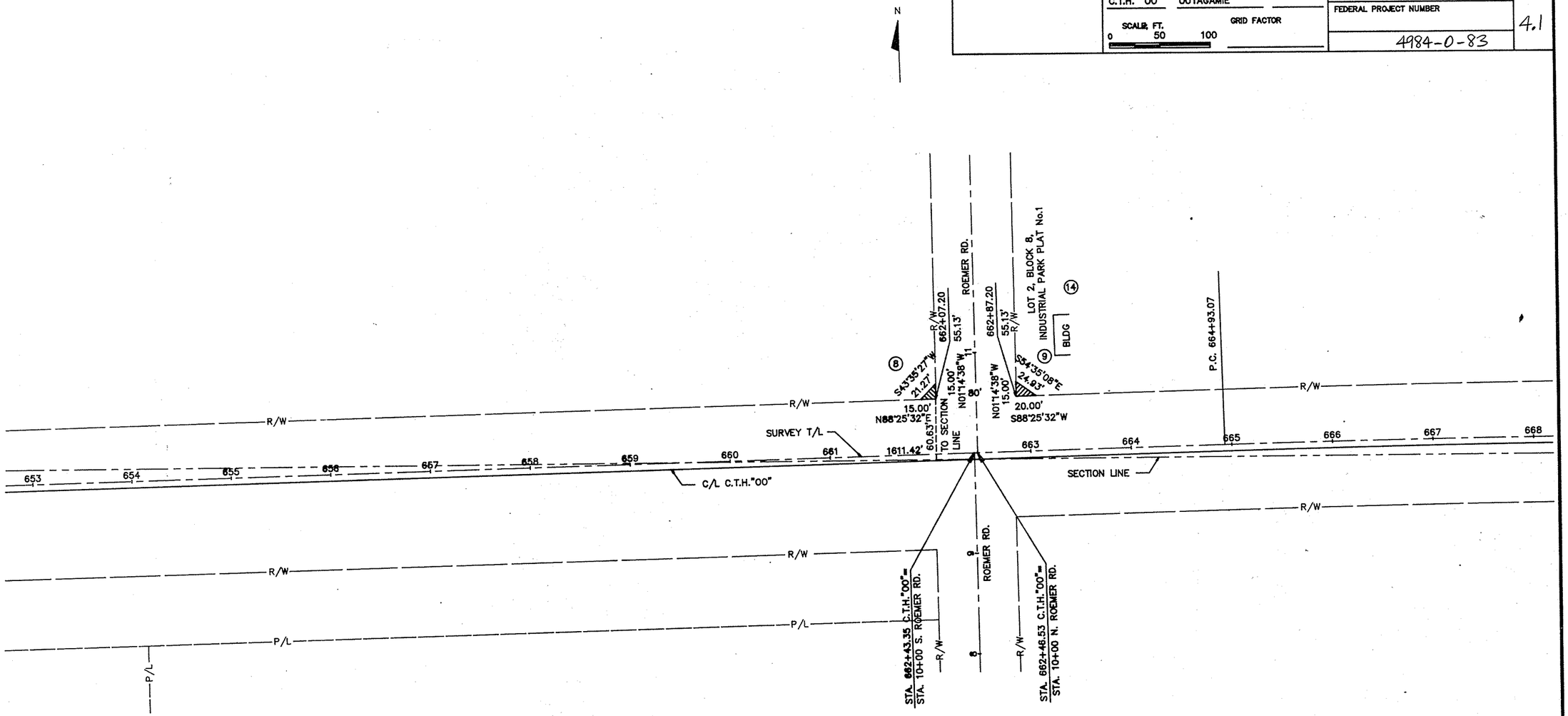
RIGHT OF WAY PLAT BEARINGS ARE ORIENTED TO THE WISCONSIN COORDINATE SYSTEM WITH 0 DEGREES, 0 MINUTES, 0 SECONDS BEING "GRID NORTH". THE DIFFERENCE BETWEEN PROJECT PLAT BEARINGS REPRESENT PLANE ANGLES IN DEGREES, MINUTES, AND SECONDS. R/W PLAT DISTANCES ARE GROUND LENGTHS UNLESS OTHERWISE NOTED AND MAY BE CONVERTED TO GRID LENGTHS BY MULTIPLYING PLAT DISTANCES BY 0.99996415.

SURVEYOR'S CERTIFICATE

The property as shown and described on this map was surveyed under my direction and control according to the Wisconsin Administrative Code, Chapter A-E7 of Minimum Standards for Property Surveys, and is a correct representation of said survey, to the best of my knowledge and belief.

date Registered Land Surveyor

REVISION DATE	ROUTE	COUNTY	DATE	STATE PROJECT NUMBER	SHEET NUMBER
	C.T.H. "00"	OUTAGAMIE		4984-00-83	4.1
	SCALE; FT. 0 50 100	GRID FACTOR		FEDERAL PROJECT NUMBER 4984-0-83	



NOTE: OFFSET DISTANCES AT STATIONING IS MEASURED FROM THE SURVEY TRAVERSE LINE

ALL CORNERS TO BE MONUMENTED BY 3/4"x24" STEEL REBARS WEIGHING 1.5 lbs./lineal ft. AND MARKED BY R/W POSTS.

"BEARING ORIENTATION AND GRID CONVERSION"

RIGHT OF WAY PLAT BEARINGS ARE ORIENTED TO THE WISCONSIN COORDINATE SYSTEM WITH 0 DEGREES, 0 MINUTES, 0 SECONDS BEING "GRID NORTH". THE DIFFERENCE BETWEEN PROJECT PLAT BEARINGS REPRESENT PLANE ANGLES IN DEGREES, MINUTES, AND SECONDS. R/W PLAT DISTANCES ARE GROUND LENGTHS UNLESS OTHERWISE NOTED AND MAY BE CONVERTED TO GRID LENGTHS BY MULTIPLYING PLAT DISTANCES BY 0.99996415.

REVISION DATE	ROUTE	COUNTY	DATE	STATE PROJECT NUMBER	SHEET NUMBER
	C.T.H. "00"	OUTAGAMIE		4984-00-[illegible]	4.2
	SCALE, FT. 0 50 100	GRID FACTOR		FEDERAL PROJECT NUMBER 4984-0-83	

N

SURVEY T/L CURVE DATA C.T.H."00"

P.I.= 669+00.10
R= 22,923.31'
D= 00°15'00"
Δ= 02°02'04"
L= 813.97'
T= 407.03'
E= 3.61'

P.C. 664+93.07

P.T. 673+07.03

R/W

SURVEY T/L

S89°32'09"E

664 665 666 667 668 669 670 671 672 673 674 675 676 677 678

SECTION LINE

2946.43'

64.38' SECTION LINE

S01°18'18"E

N01°18'18"W 678+03.34

30.00'

675+40.30

52.23'

51.93'

R/W

BLDG

LOT 7, BLOCK 8, INDUSTRIAL PARK PLAT No.1

OUTLOT 1, BLOCK 9, INDUSTRIAL PARK PLAT No.1

CONKEY ST.

64'

12

11

14

12

HSE

S53°19'56"E 50.72'

3.00' 37.00'

N89°15'48"W N89°36'07"W

C/L C.T.H."00"

N89°34'13"E 2641.36'

STA. 675+68.28 C.T.H."00" = STA. 10+00 S. CONKEY ST.

STA. 676+78.24 C.T.H."00" = STA. 10+00 N. CONKEY ST.

9

8

CONKEY ST.

STA. 702+49.39, 29.98' LT, C.T.H."00"

T 21 N
18 17
R 19 20 E
18

PK NAIL
N 837,927.612
E 2,431,249.043

T 21 N
18
R 19 E
18

PK NAIL

STA. 676+08.35, 11.23' RT, C.T.H."00"

NOTE: OFFSET DISTANCES AT STATIONING IS MEASURED FROM THE SURVEY TRAVERSE LINE

ALL CORNERS TO BE MONUMENTED BY 3/4"x24" STEEL REBARS WEIGHING 1.5 lbs./lineal ft. AND MARKED BY R/W POSTS.

"BEARING ORIENTATION AND GRID CONVERSION"

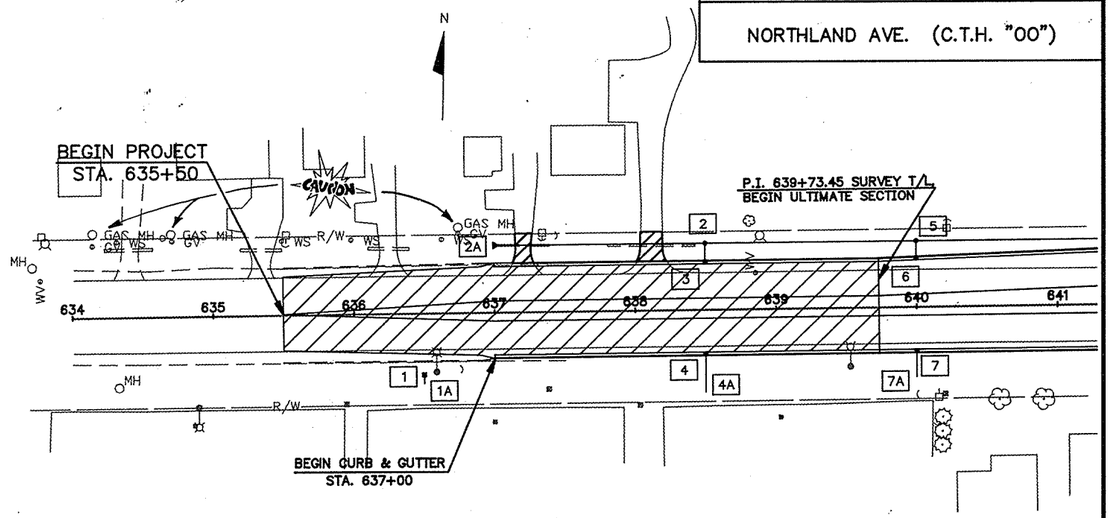
RIGHT OF WAY PLAT BEARINGS ARE ORIENTED TO THE WISCONSIN COORDINATE SYSTEM WITH 0 DEGREES, 0 MINUTES, 0 SECONDS BEING "GRID NORTH". THE DIFFERENCE BETWEEN PROJECT PLAT BEARINGS REPRESENT PLANE ANGLES IN DEGREES, MINUTES, AND SECONDS. R/W PLAT DISTANCES ARE GROUND LENGTHS UNLESS OTHERWISE NOTED AND MAY BE CONVERTED TO GRID LENGTHS BY MULTIPLYING PLAT DISTANCES BY 0.99996415.

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	5.0

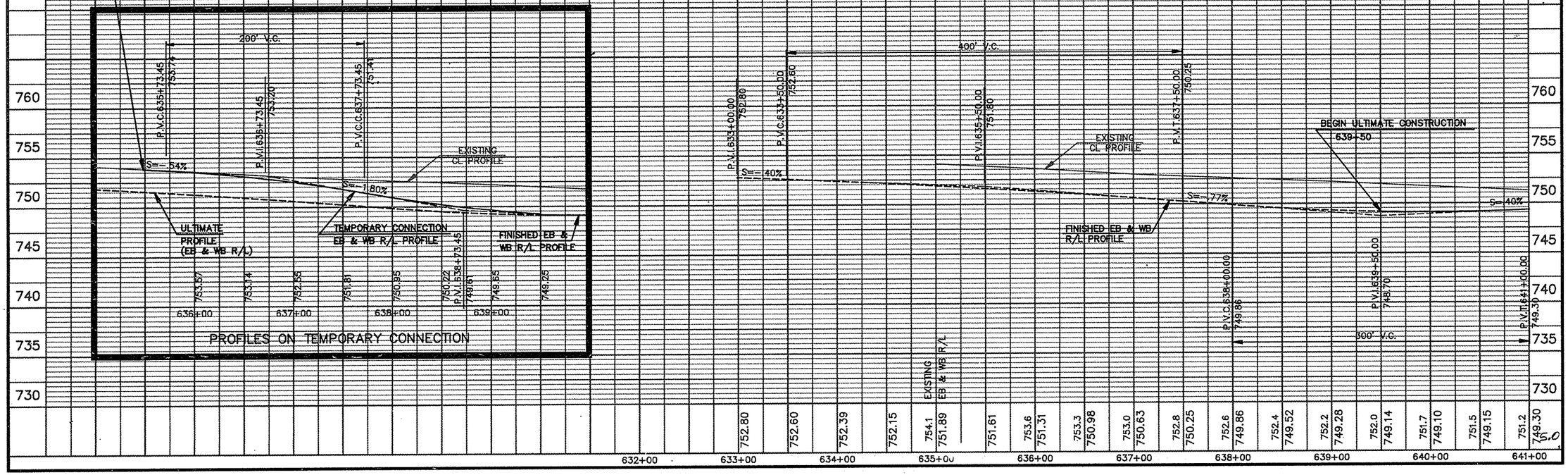
NORTHLAND AVE. (C.T.H. "00")

BENCH MARK

NO.	STA.	DESC.	ELEV.
~~1~~	~~648+50~~	~~FLANGE ON HYD. 47'LT.~~	~~750.11~~
~~2~~	~~650+45~~	~~FLANGE ON HYD. 48'LT.~~	~~749.16~~
-	647+00	CAP IN SE WING, 75'RT	748.23

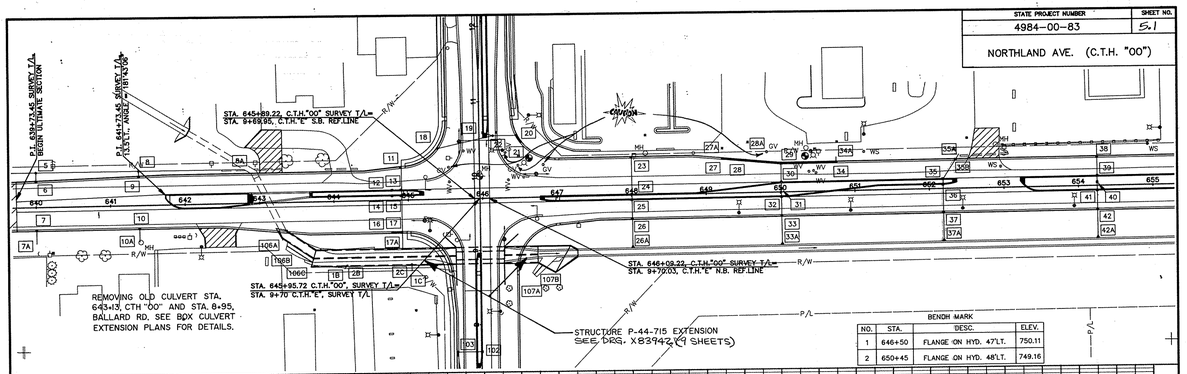


BEGIN PROJECT
STA. 635+50
ELEVATION 753.87

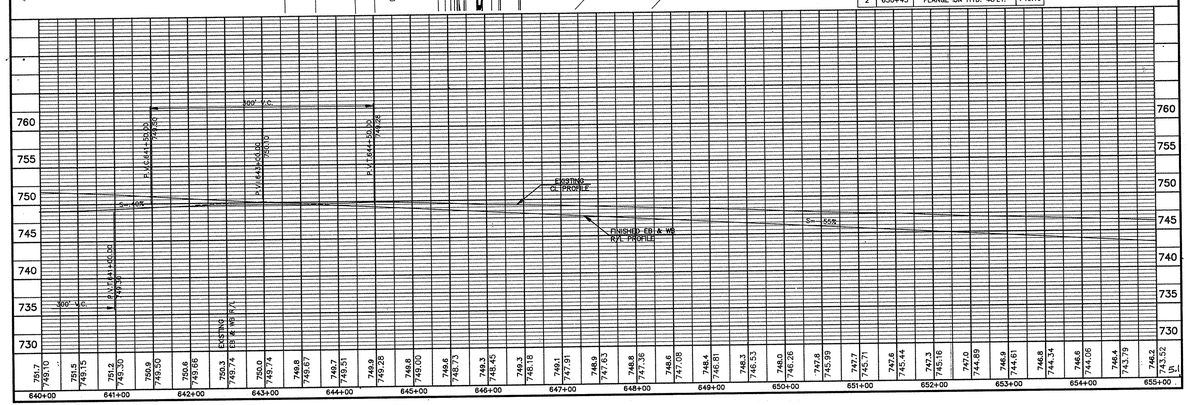


STATE PROJECT NUMBER	SHEET NO.
4984-00-83	5.1

NORTHLAND AVE. (C.T.H. "00")



BENCH MARK			
NO.	STA.	DESC.	ELEV.
1	646+50	FLANGE ON HYD. 47'LT.	750.11
2	650+45	FLANGE ON HYD. 48'LT.	749.16



STATE PROJECT NUMBER	SHEET NO.
4984-00-83	5.2

NORTHLAND AVE. (C.T.H. "00")

BENCH MARK

NO.	STA.	DESC.	ELEV.
~~3~~	~~655+55~~	~~FLANGE ON HYD. 50'LT.~~	~~746.62~~
~~4~~	~~660+05~~	~~FLANGE ON HYD. 48'LT.~~	~~743.23~~
~~5~~	~~667+30~~	~~TOP OF HYD. 48'LT.~~	~~746.29~~

CURVE DATA

P.I.= 669+00.09
P.C.= 664+93.07
P.T.= 673+07.03
R= 22,923.31'
D= 00°15'00"
Δ= 2°02'04"
L= 813.96'
T= 407.02'
E= 3.61'
SE= NC

STA. 662+46.53 C.T.H."00", SURVEY T/L=
STA. 10+00 N. ROEMER RD.

STA. 662+43.35 C.T.H."00", SURVEY T/L=
STA. 10+00 S. ROEMER RD.

C.T.H. "00"

ROEMER RD.

REMOVING OLD CULVERT STA. 9+25 ROEMER RD.
SEE BOX CULVERT EXTENSION PLANS FOR DETAILS

N. ROEMER RD.

P.V.I.10+25.50 743.61
P.V.C.10+50.00 743.74
P.V.I.10+37.50 743.37
743.74
P.V.I.11+00.00 745.21
745.2 744.97
P.V.T.11+50.00 745.71
745.7 745.71
S=2.00%
S=2.94%
S=1.00%
100' V.C.
743.9
10+00
10+50
11+00
11+50

EXISTING
EB & WB R/L

EXISTING
PL PROFILE

FINISHED EB & WB
R/L PROFILE

P.V.C.656+50.00 742.69
P.V.I.658+00.00 741.87
P.V.I.659+50.00 742.47
P.V.C.661+00.00 743.07
P.V.I.662+50.00 743.87
P.V.T.664+00.00 743.07
P.V.C.668+50.00 741.27
300' V.C.
S=.40%

| | | |

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	5.3

NORTHLAND AVE. (C.T.H. "00")

CURVE DATA

P.I.= 669+00.09
P.C.= 664+93.07
P.T.= 673+07.03
R= 22,923.31'
D= 00°15'00"
Δ= 2°02'04"
L= 813.96'
T= 407.02'
E= 3.61'
SE= NC

N

BENCH MARK

NO.	STA.	DESC.	ELEV.
~~5~~	~~667+90~~	~~TOP OF HYD. 48'LT.~~	~~746.29~~
~~6~~	~~673+45~~	~~TOP OF HYD. 48'LT.~~	~~746.98~~
~~7~~	~~675+48~~	~~TOP OF HYD. 57'LT.~~	~~748.62~~

STA. 675+75.24 C.T.H."00", SURVEY T/L=
STA. 10+00 N. CONKEY ST.

STA. 675+68.26 C.T.H."00", SURVEY T/L=
STA. 10+00 S. CONKEY ST.

C.T.H."00"

CONKEY ST.

R/W

WV

MH

SHED

(ASPH.)

S. CONKEY ST.

P.V.C.8+25.00 742.67
P.V.I.8+75.00 743.33
P.V.T.9+25.00 743.00
P.V.C.9+68.50 742.99
P.V.I.9+88.50 742.75
P.V.T.10+00 742.87
P.V.I.9+93.50 742.87
P.V.T.10+75.00 745.8
S=1.32%
S=.61%
S=2.00%
S=2.00%
742.3 743.2 742.94 744.4 743.12 744.3 742.87 742.75 745.8
8+00 8+50 9+00 9+50 10+00

N. CONKEY ST.

P.V.C.10+25.50 742.95
P.V.I.10+13.50 742.71
P.V.T.10+37.50 742.71
P.V.C.10+85.00 743.94
P.V.I.11+35.00 745.24
P.V.T.11+85.00 745.08
S=2.00%
S=2.00%
S=2.69%
S=32%
745.8 743.4 743.03 745.4 744.30 745.2 745.01 745.0
10+00 10+50 11+00 11+50 12+00

EXISTING CL PROFILE

FINISHED EB & WB R/L PROFILE

EXISTING EB & WB R/L

P.V.C.668+50.00 741.27
P.V.I.670+00.00 740.97
P.V.T.671+50.00 741.61
P.V.C.673+00.00 742.58
P.V.I.674+50.00 743.50
P.V.T.676+00.00 742.57
P.V.C.677+00.00 741.95
P.V.I.678+50.00 741.02
P.V.T.680+00.00 742.16
S=.63%
S=.62%
S=.76%
300' V.C.
300' V.C.
300' V.C.

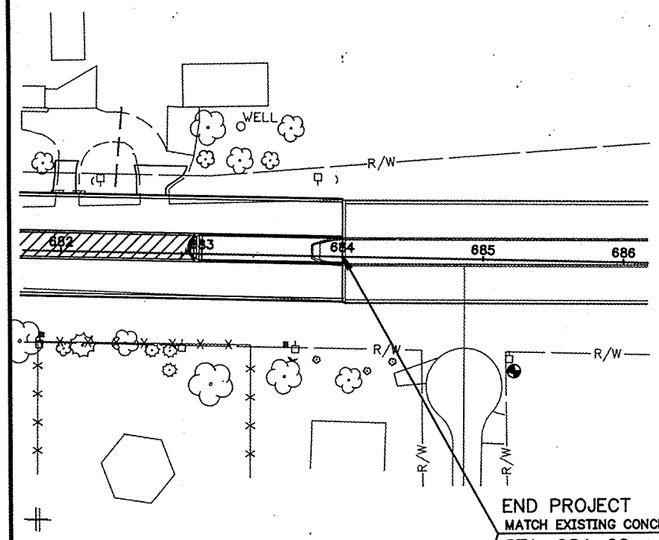
| | | |

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	5.4
NORTHLAND AVE. (C.T.H. "00")	

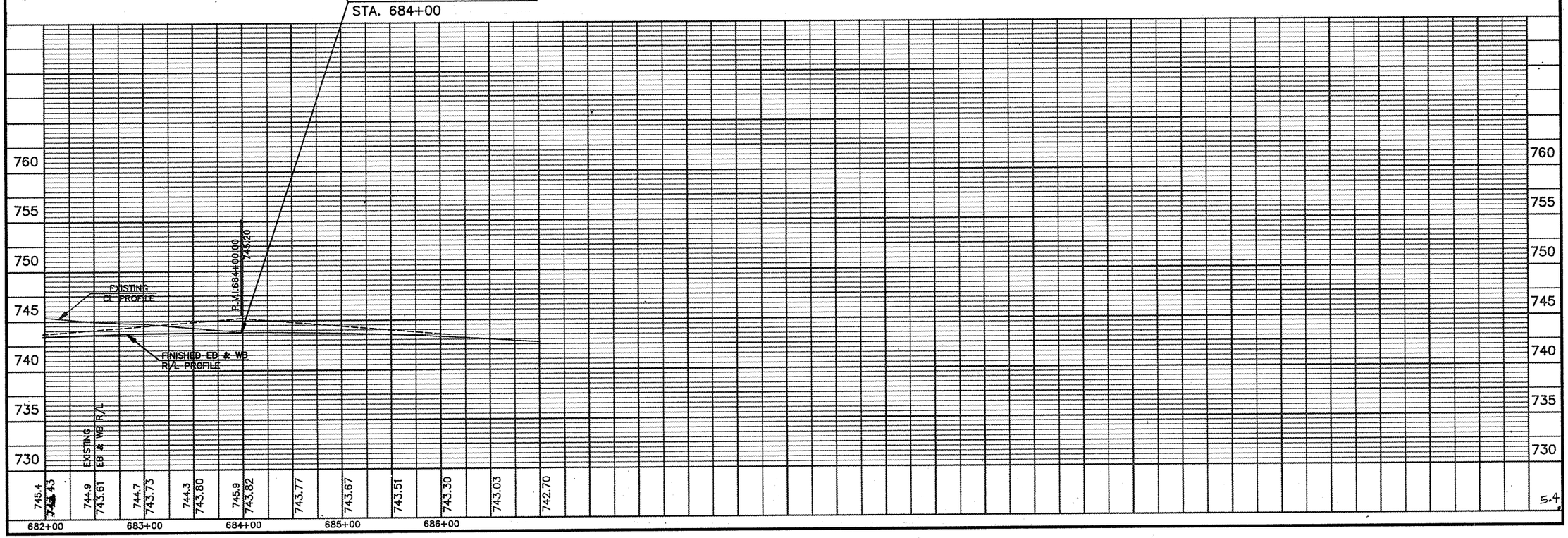
N

BENCH MARK

NO.	STA.	DESC.	ELEV.
8	685+20	NAIL IN POWER POLE 69'RT.	~~742.37~~ 742.42



END PROJECT
MATCH EXISTING CONCRETE PAVEMENT
STA. 684+00



STATE PROJECT NUMBER	SHEET NO.
4984-00-83	5.5

BALLARD RD. (C.T.H. "E")

BENCH MARK

NO.	STA.	DESC.	ELEV.
1	646+50	FLANGE ON HYD. 47'LT.	750.11

N

P.I. 2+80 SURVEY T/L=
NB R/L, ANGLE = 182°15'42"
SB R/L, ANGLE = 178°54'38"

P.I. 6+21.83 SURVEY T/L,
6.5' LT., ANGLE = 181°05'22"

STA. 9+70 C.T.H."E", SURVEY T/L=
STA. 645+95.72 C.T.H."00", SURVEY T/L

P.I. 9+69.95 C.T.H."E", SURVEY T/L,
6.5'LT., ANGLE = 179°45'01"

P.I. 6+21.83 SURVEY T/L,
13.5'RT., ANGLE = 177°44'18"

STA. 7+01.02 C.T.H."E"=
STA. 10+00 LONGVIEW DR.

P.I. 9+70.03 SURVEY T/L,
13.5'RT., ANGLE = 179°45'01"

P.I. 13+25.00 SURVEY T/L,
13.5'RT., ANGLE = 177°59'44"

P.I. 15+25.00 SURVEY T/L,
6.5'RT., ANGLE = 182°00'16"

LONGVIEW DR.

BALLARD RD.

(C.T.H. "E")

NORTHLAND AVE.

R/W

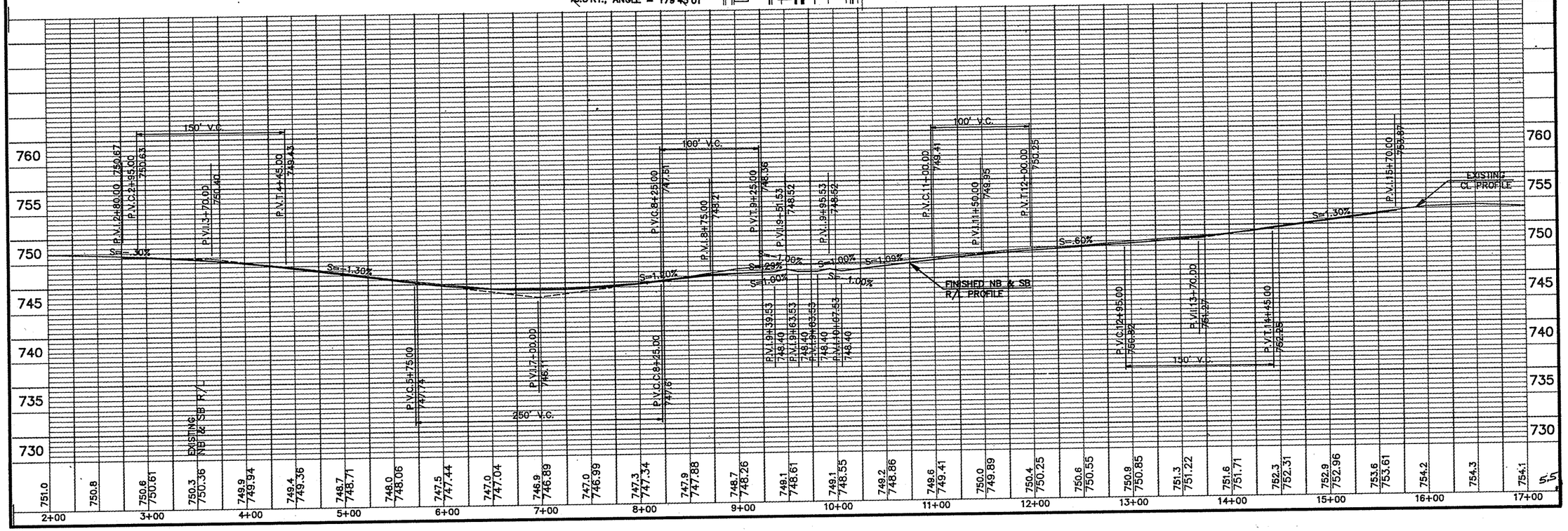
P/L

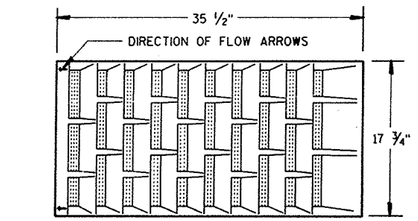
GV

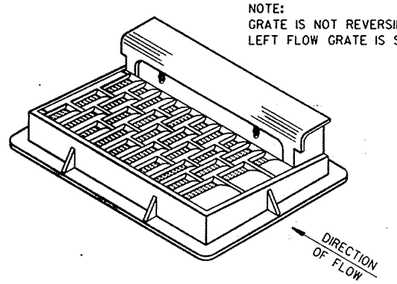
MH

WV

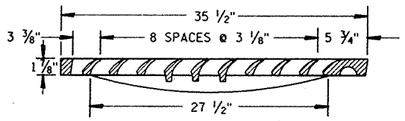
WS



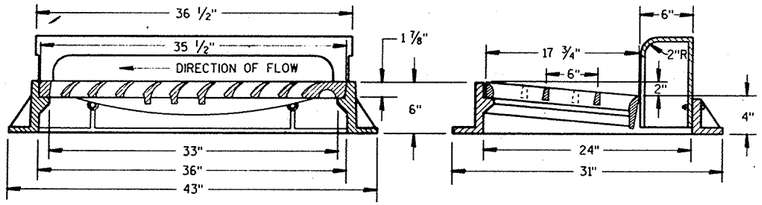




NOTE:
GRATE IS NOT REVERSIBLE.
LEFT FLOW GRATE IS SHOWN

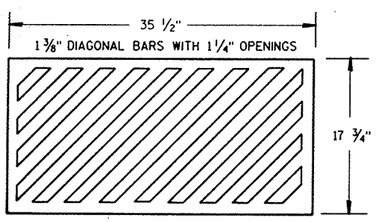


NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"



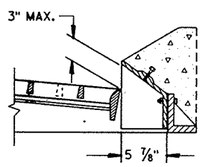
TYPE "H"

(APPROXIMATE WEIGHT 510 LBS.)



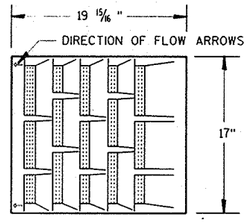
SPECIAL GRATE NO. 1

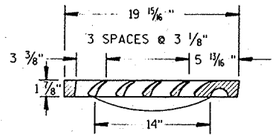
(APPROXIMATE WEIGHT 175 LBS.)
(NOTE AS TYPE H1 ON DRAINAGE TABLE)

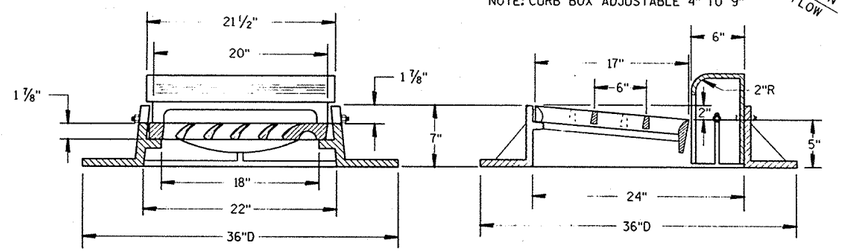


MOUNTABLE CURB BOX FOR TYPE "H" COVER

(FOR USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH)







TYPE "A"

(APPROXIMATE WEIGHT 410 LBS.)

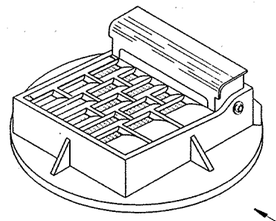
GENERAL NOTES

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.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

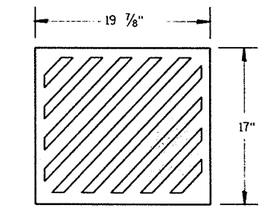
THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.



NOTE:
GRATE IS NOT REVERSIBLE
LEFT FLOW GRATE IS SHOWN

NOTE: CURB BOX ADJUSTABLE 4" TO 9"

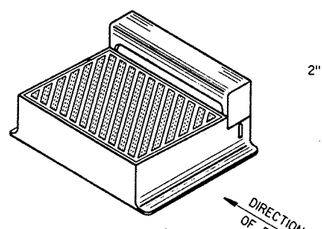
1" DIAGONAL BARS WITH 1 ½" OPENINGS



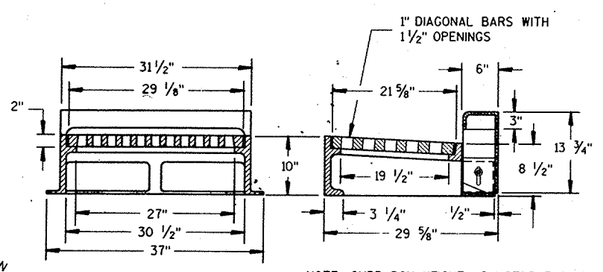
SPECIAL GRATE NO. 1

(APPROXIMATE WEIGHT 85 LBS.)

(NOTE AS TYPE A1 ON DRAINAGE TABLE)



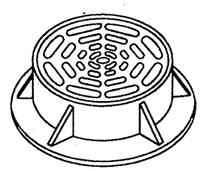
DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.

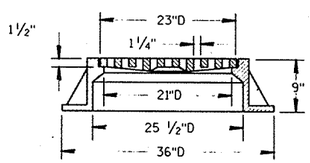


NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

(APPROXIMATE WEIGHT 650 LBS.)





TYPE "C"

(APPROXIMATE WEIGHT 365 LBS.)

INLET COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

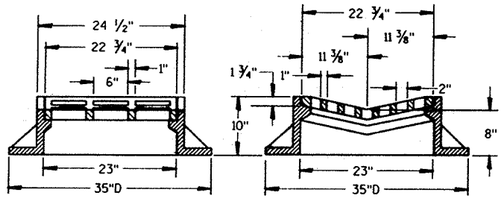
APPROVED 11/30/90
DATE

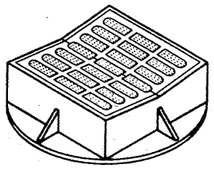
STATE DESIGN ENGINEER FOR HWYS

FHWA

S.D.D. 8 A 5-8a

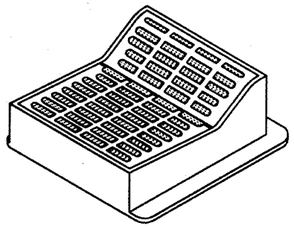
S.D.D. 8 A 5-8a

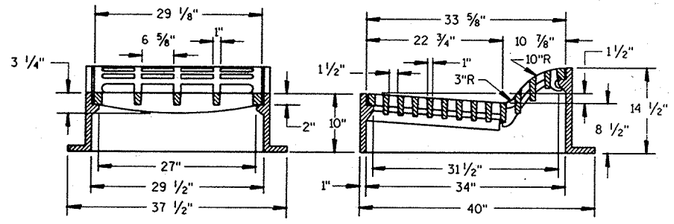




TYPE "B"

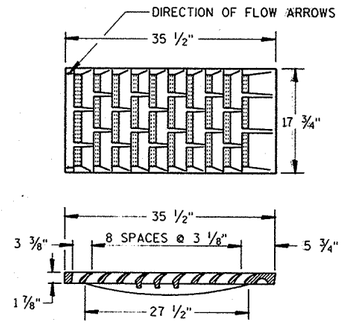
(APPROXIMATE WEIGHT 400 LBS.)

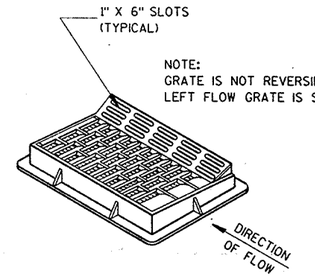


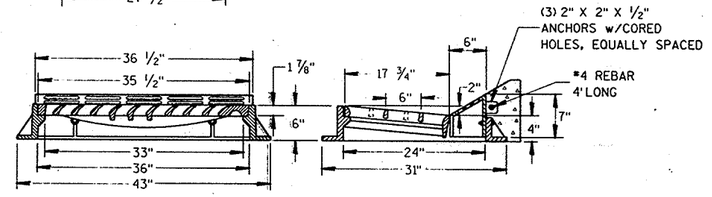


TYPE "F"①

(APPROXIMATE WEIGHT 835 LBS.)



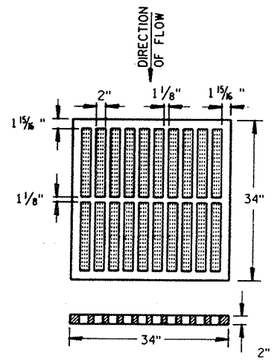




TYPE "HM"①

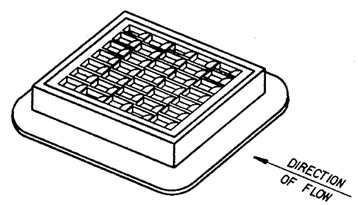
(APPROXIMATE WEIGHT 510 LBS.)

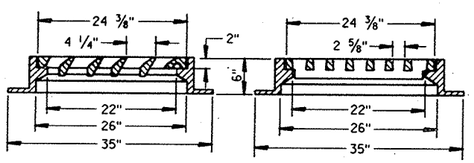
NOTE:
SPECIAL GRATE NO. 1 FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM" COVER



TYPE "MS"

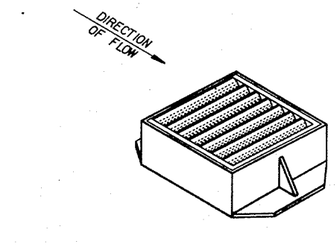
(APPROXIMATE GRATE WEIGHT 285 LBS.)

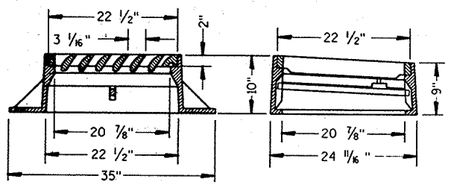




TYPE "S"

(APPROXIMATE WEIGHT 400 LBS.)





TYPE "V"

(APPROXIMATE WEIGHT 400 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 INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

① FOR USE WITH CONCRETE CURB & GUTTER, 36 INCH.

INLET COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

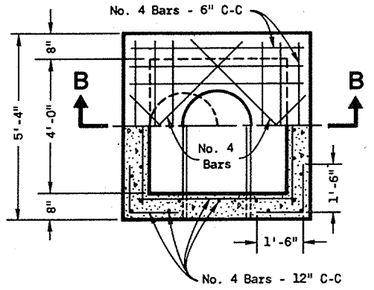
APPROVED
11/30/90
DATE

STATE DESIGN ENGINEER FOR HWYS

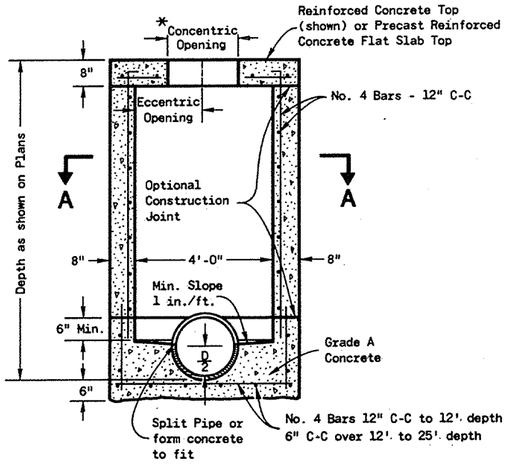
FHWA

S.D.D. 8 A 5-8b

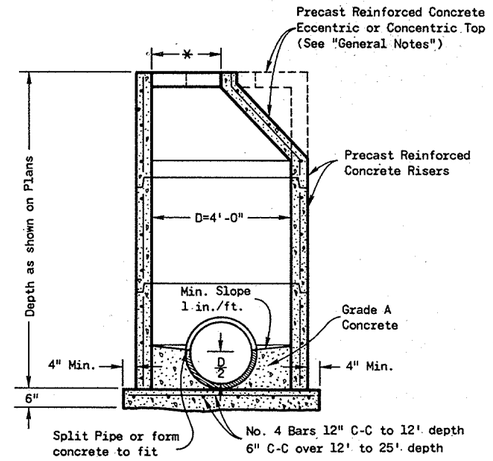
S.D.D. 8 A 5-8b



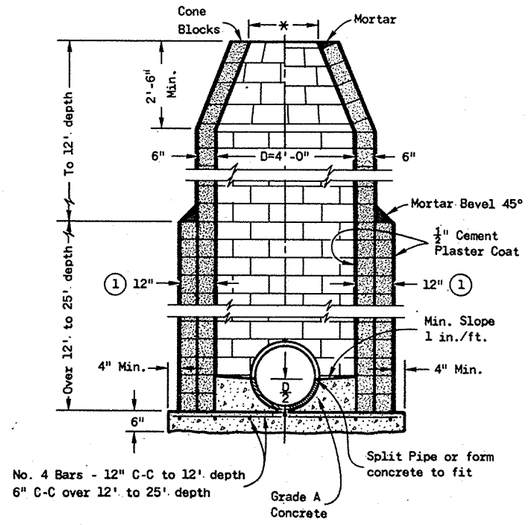
HALF SECTION **A–A**



SECTION **B–B**
REINFORCED CONCRETE



PRECAST REINFORCED CONCRETE



CONCRETE BLOCK

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.

Detailed drawings for proposed alternate designs for underground drainage structures shall be submitted to the Engineer for approval providing that such alternate designs make provision for equivalent capacity and strength.

All drainage structures are designated on the plans as "Manholes 1-C", "Catch Basins 1-B", "Inlets 3-H", etc. The first digit designates the masonry portion of the structure, and the following letter designates the type of cover to be used to comprise the complete unit.

Precast Reinforced Bases shall be placed on a bed of material at least 6 inches in depth, which meets the requirements for Granular Backfill. This bedding shall be compacted and provide uniform support for the entire area of the base.

Precast Reinforced Concrete Cone Tops (Eccentric or Concentric) may be used on concrete block structures. The Cone Tops shall be installed on a bed of mortar.

Eccentric Cone Tops may be used on all structures, and Concentric Cone Tops shall be used only on structures 5 feet or less in depth, unless otherwise directed by the Engineer.

Steps meeting the following requirements shall be installed in all structures over 5 feet in depth: 16 inch C-C maximum spacing; project a minimum clear distance of 4 inches from the wall at the point of embedment; minimum length of 10 inches; minimum wall embedment of 3 inches; and be capable of supporting a concentrated load of 300 lbs. Ferrous metal steps not painted or treated to resist corrosion shall have a minimum cross sectional dimension of 1 inch.

Solid Aluminum steps shall have a minimum cross sectional dimension of 0.75 inch. Aluminum surfaces to be embedded in concrete shall be given one coat of suitable quality paint, such as zinc chromate primer conforming to Federal Specification TT-P-645 or equivalent. Steps of approved Polyproplene plastic coated reinforcement bar will be acceptable.

All bar steel reinforcement shall be embedded 2 inches clear unless otherwise shown or noted.

Precast Reinforced Concrete Risers may be placed with tongue up or down.

All Precast Inlet Units shall conform to the pertinent requirements of AASHTO Designation M 199.

* Use 2'-0" diameter opening with Type "C", "L" and "J" covers, or 3'-0" diameter with Type "K" and "M" covers.

(1) 2 courses 6" block.

MANHOLES TYPE 1

State of Wisconsin
Department of Transportation

APPROVED 4-13-82
DATE

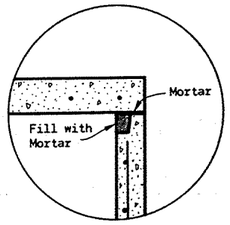
D. A. Strand
CHIEF DESIGN ENGINEER

FHWA

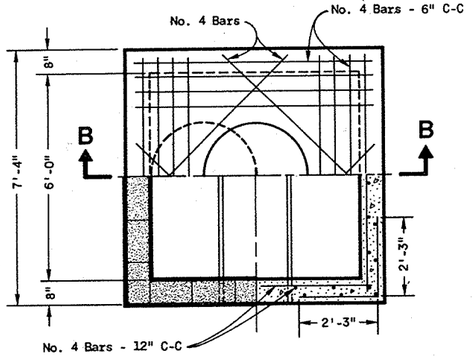
S.D.D. 8 B 6-3

MANHOLES TYPE 1

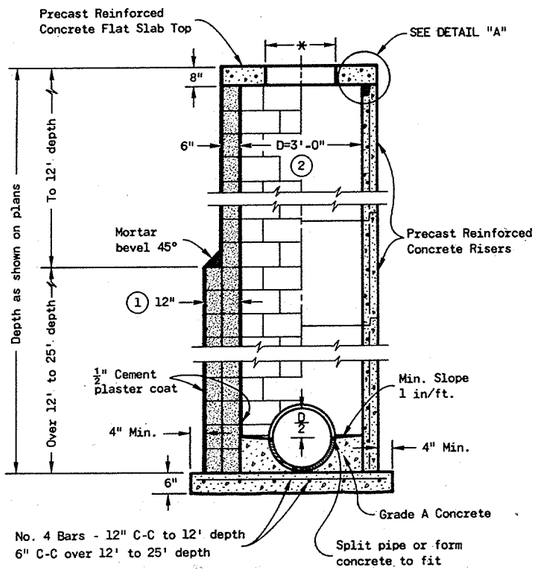
S.D.D. 8 B 6-3



DETAIL "A"

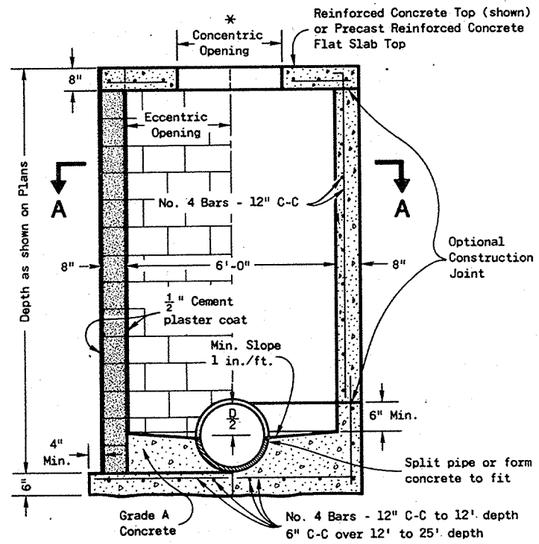


HALF SECTION A-A



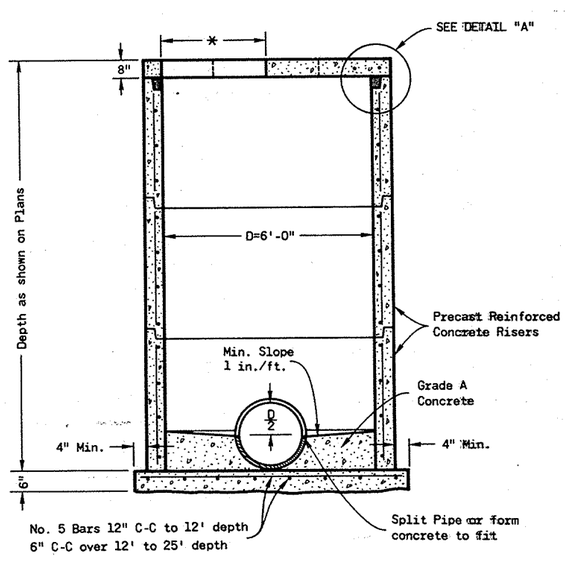
CONCRETE BLOCK ② PRECAST REINFORCED CONCRETE

MANHOLES TYPE 2



SECTION B-B

CONCRETE BLOCK REINFORCED CONCRETE



PRECAST REINFORCED CONCRETE

MANHOLES TYPE 3

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.

Detailed drawings for proposed alternate designs for underground drainage structures shall be submitted to the Engineer for approval providing that such alternate designs make provision for equivalent capacity and strength.

All drainage structures are designated on the plans as "Manholes 1-C", "Catch Basins 1-B", "Inlets 3-H", etc. The first digit designates the masonry portion of the structure , and the following letter designates the type of cover to be used to comprise the complete unit.

Precast Reinforced Bases shall be placed on a bed of material at least 6" in depth, which meets the requirements for Granular Backfill. This bedding shall be compacted and provide uniform support for the entire area of the base.

Steps meeting the following requirements shall be installed in all structures over 5 feet in depth: 16 inch C-C maximum spacing; project a minimum clear distance of 4 inches from the wall at the point of embedment; minimum length of 10 inches; minimum wall embedment of 3 inches; and capable of supporting a concentrated load of 300 lbs. Ferrous metal steps not painted or treated to resist corrosion shall have a minimum cross sectional dimension of 1 inch.

Solid Aluminum steps shall have a minimum cross sectional dimension of 0.75 inch. Aluminum surfaces to be embedded in concrete shall be given one coat of suitable quality paint, such as zinc chromate primer conforming to federal specification TT-P-645 or equivalent. Steps of approved Polypropylene plastic coated reinforcement bar are acceptable.

All bar steel reinforcement shall be embedded 2 inches clear unless otherwise shown or noted.

Precast Reinforced Concrete Risers shall be placed with tongue down.

All precast inlet units shall conform to the pertinent requirements of AASHTO Designation M 199.

* Use 2'-0" diameter opening with type "C", "L", and "J" covers, or 3'-0" diameter with type "K" and "M" covers.

(1) 2 courses 6" block.

(2) When connecting pipes are 24" or larger the Precast Manholes may be increased to 42" diameter.

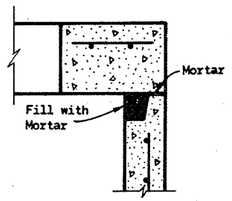
MANHOLES TYPE 2 & 3

State of Wisconsin
Department of Transportation

APPROVED 4-13-82 DATE
CHIEF DESIGN ENGINEER
FHWA

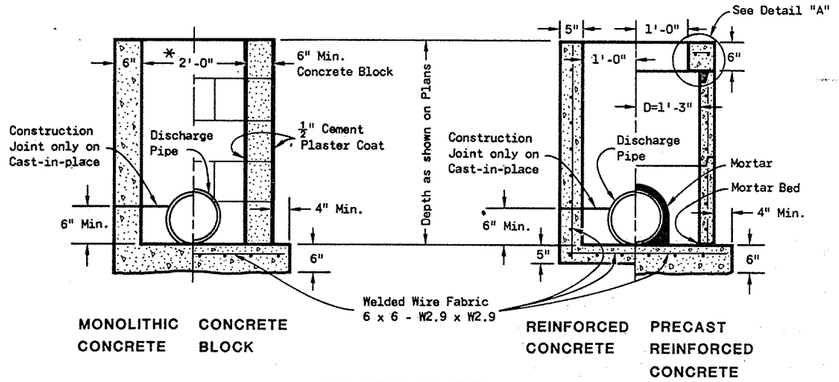
S.D.D. 8 B 7-3

S.D.D. 8 B 7-3



DETAIL "A"

*Selection of square or circular design will be based on the pipe sizes and the Inlet Cover being utilized.



MONOLITHIC CONCRETE BLOCK

REINFORCED CONCRETE PRECAST REINFORCED CONCRETE

INLETS TYPE 1

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.

Detailed drawings for proposed alternate designs for underground drainage structures shall be submitted to the Engineer for approval providing that such alternate designs make provision for equivalent capacity and strength.

All Precast Inlet units shall conform to the pertinent requirements of AASHTO Designation M 199.

All drainage structures are designated on the plans as "Manholes 1-C", "Catch Basins 1-B", "Inlets 3-H", etc. The first digit designates the masonry portion of the structure, and the following letter designates the type of cover to be used to comprise the complete unit.

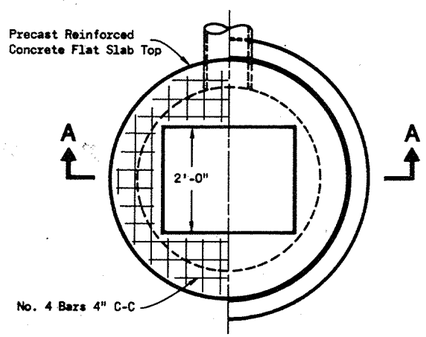
Precast Reinforced Bases shall be placed on a bed of material at least 6 inches in depth, which meets the requirements for Granular Backfill. This bedding shall be compacted and provide uniform support for the entire area of the base.

Precast Reinforced Concrete Flat Slab Tops may be used on the structures. The Tops shall be installed on a bed of mortar.

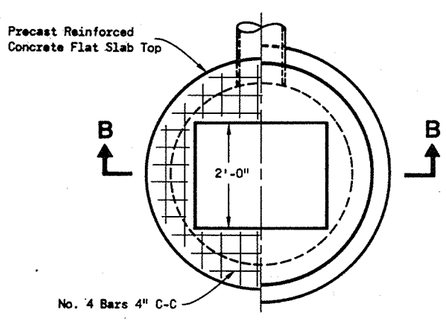
All Bar Steel reinforcement shall be embedded 2 inches clear unless otherwise shown or noted.

Precast Reinforced Concrete Risers shall be placed with tongue down.

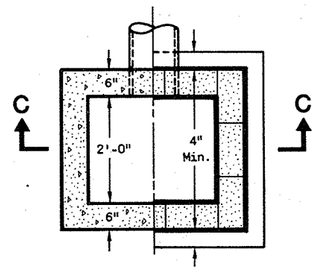
(1) Use 2'-6" opening for Type 2 Inlets and 3'-0" opening for Type 3 Inlets.



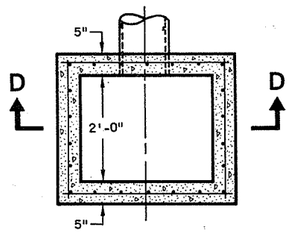
PLAN VIEW



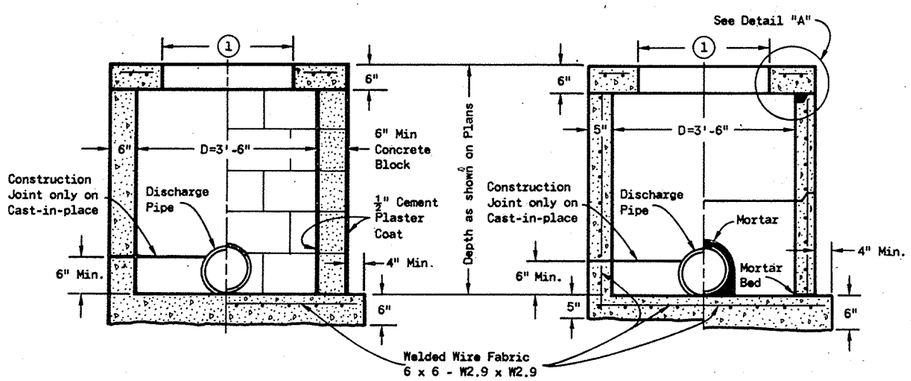
PLAN VIEW



PLAN VIEW



PLAN VIEW

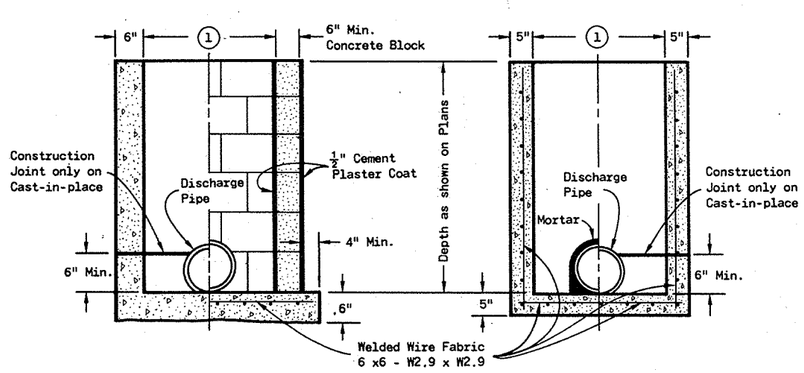


MONOLITHIC CONCRETE BLOCK

REINFORCED CONCRETE PRECAST REINFORCED CONCRETE

SECTION A–A

SECTION B–B



MONOLITHIC CONCRETE BLOCK

PRECAST REINFORCED CONCRETE REINFORCED CONCRETE

SECTION C–C

SECTION D–D

INLETS TYPE 2 & 3

INLETS TYPE 1, 2 & 3

State of Wisconsin
Department of Transportation

APPROVED 4-13-82 DATE

CHIEF DESIGN ENGINEER

FHWA

S.D.D. 8 C 1-4

S.D.D. 8 C 1-4

GENERAL NOTES

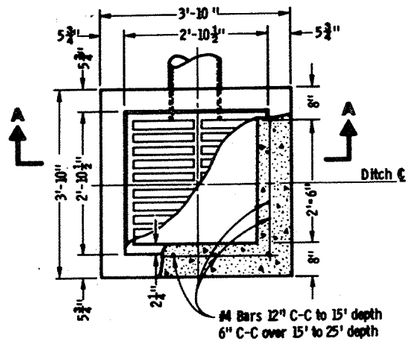
Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

Detailed drawings for proposed alternate designs for Inlets which may include precast reinforced concrete inlets, shall be submitted to the Engineer for approval providing that such alternate designs make provision for equivalent capacity and strength.

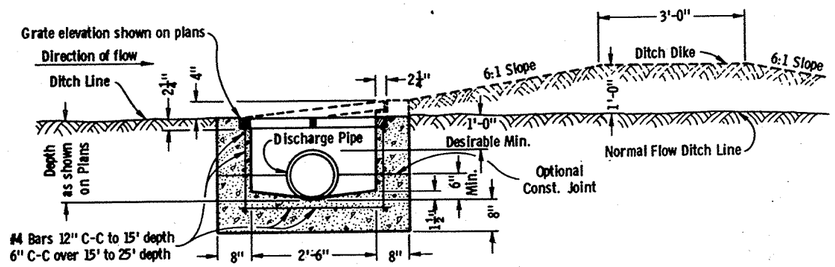
Precast reinforced concrete inlet units, if used, shall conform to the requirements of the Catch Basins, Manholes and Inlets Section of the Standard Specification's.

All inlets are designated on the Plans as "Inlets, 8-MS", etc. This designation is interpreted to mean that the number, or first digit designates the masonry portion of the structure and the following letter designates the type of cover or iron casting to be used therewith to comprise the complete unit.

All bar steel reinforcement shall be embedded 2 inches clear unless otherwise shown or noted.



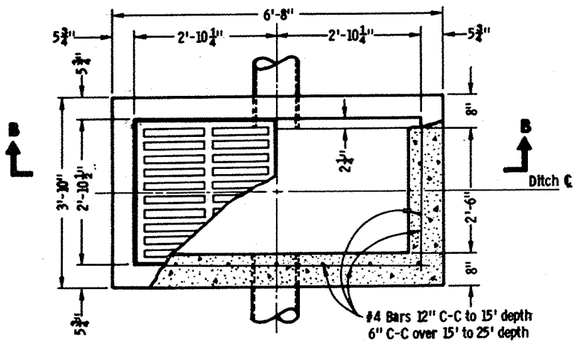
PLAN VIEW



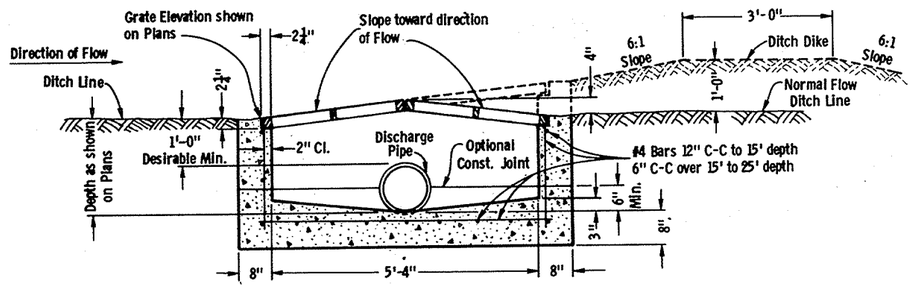
SECTION A-A

INLET TYPE 8

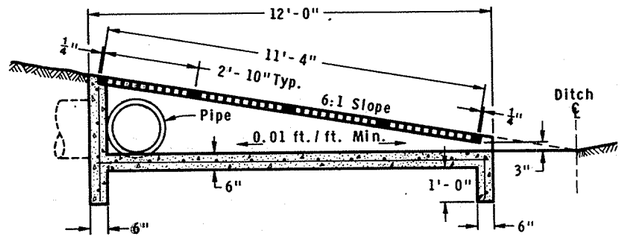
REINFORCED CONCRETE



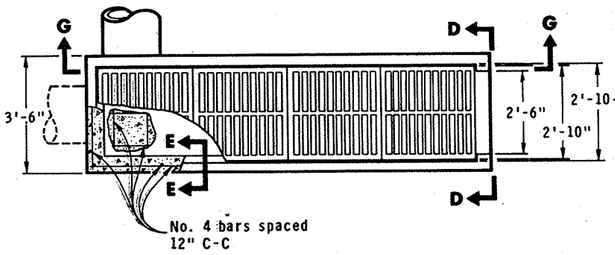
PLAN VIEW



SECTION B-B



SECTION G-G



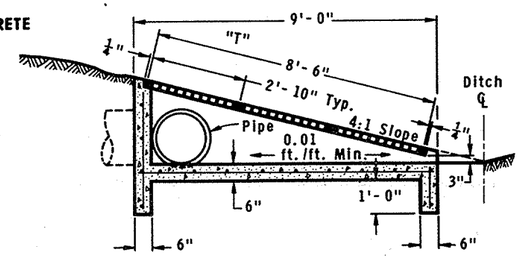
PLAN VIEW

INLET TYPE 11

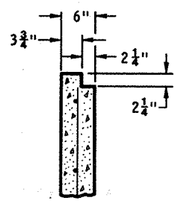
REINFORCED CONCRETE

INLET TYPE 9

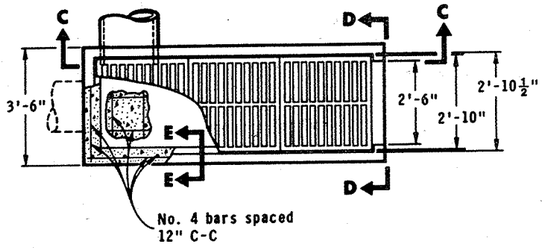
REINFORCED CONCRETE



SECTION C-C



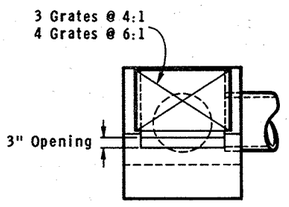
SECTION E-E



PLAN VIEW

INLET TYPE 10

REINFORCED CONCRETE



VIEW D-D

INLETS TYPE 8, 9, 10 and 11

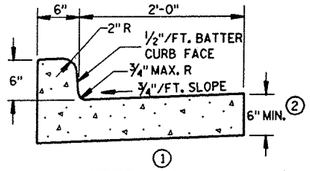
State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:
4-30-74 DATE — CHIEF of FACILITIES DEVELOPMENT

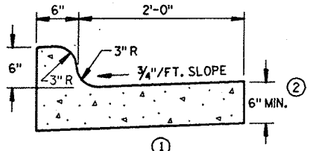
APPROVED
5-02-74 DATE — STATE HIGHWAY ENGINEER

S.D.D. 8C5-1

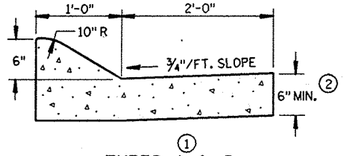
S.D.D. 8C5-1



TYPES A & D

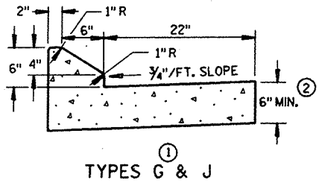


TYPES K & L

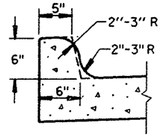


TYPES A & D

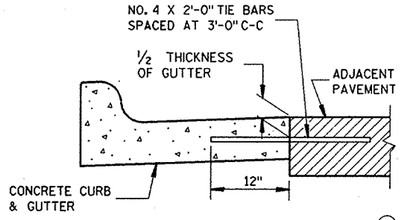
CONCRETE CURB & GUTTER 36"



TYPES G & J



OPTIONAL CURB SHAPE FOR TYPES K ① & L



TYPICAL TIE BAR LOCATION ①

CONCRETE CURB & GUTTER 30"

GENERAL NOTES

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

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

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

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

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

PAVEMENT JOINTS SHALL BE EXTENDED THROUGH INTEGRAL CURB & GUTTER. JOINTS IN INTEGRAL GUTTER SHALL HAVE THE SAME DIMENSIONS AS THE JOINTS IN THE ADJACENT PAVEMENT. JOINTS IN INTEGRAL CURB SHALL BE ⅛" WIDE.

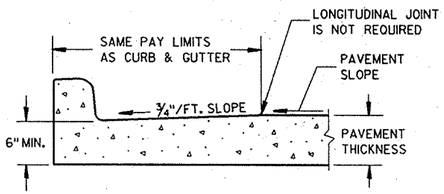
JOINTS IN INTEGRAL CURB & GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME SEALANT SPECIFIED FOR THE PAVEMENT JOINT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB & GUTTER.

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

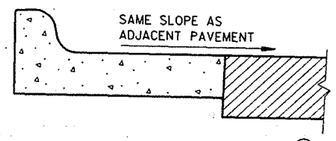
① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G AND K.

② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATIONS WILL BE SHOWN ELSEWHERE IN THE PLAN.

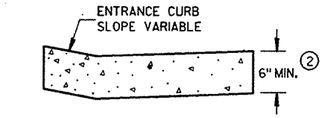


PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



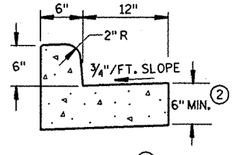
REVERSE SLOPE GUTTER ③

(TYPICAL FOR ALL CURB & GUTTER TYPES)



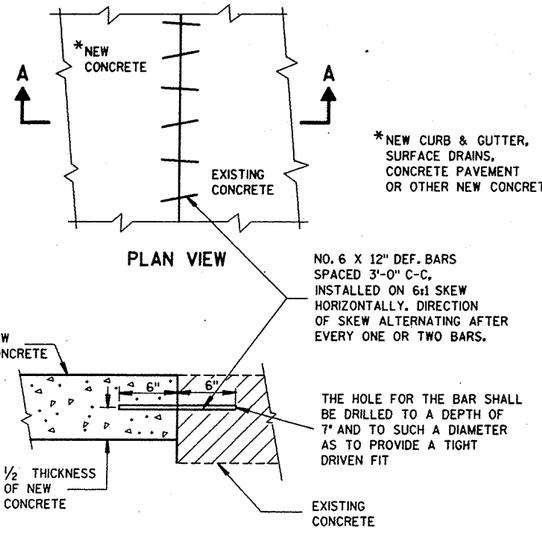
DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)



TYPES A & D

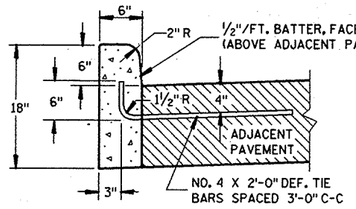
CONCRETE CURB & GUTTER 18"



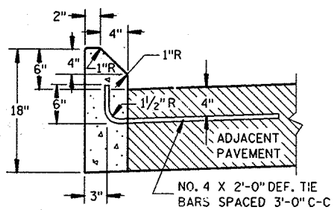
PLAN VIEW

SECTION A-A

PAVEMENT TIES



TYPES A ① & D



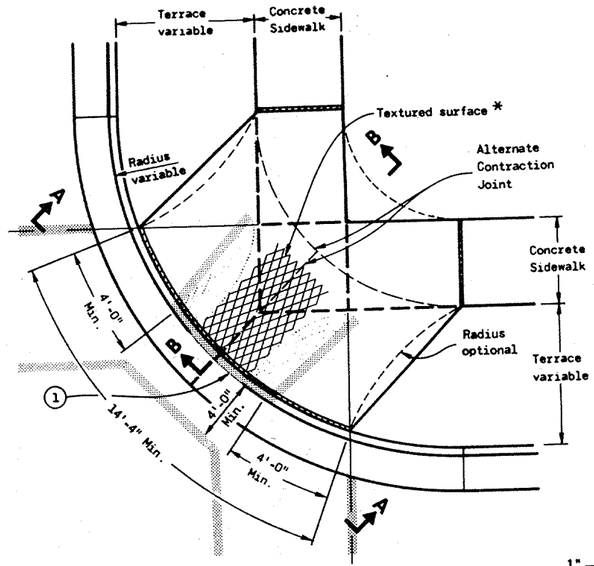
TYPES G ① & J

CONCRETE CURB

CONCRETE CURB, CONCRETE CURB & GUTTER AND PAVEMENT TIES
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 10-23-86 DATE — STATE DESIGN ENGINEER FOR HWYS
FHWA

S.D.D. 8 D 1-11

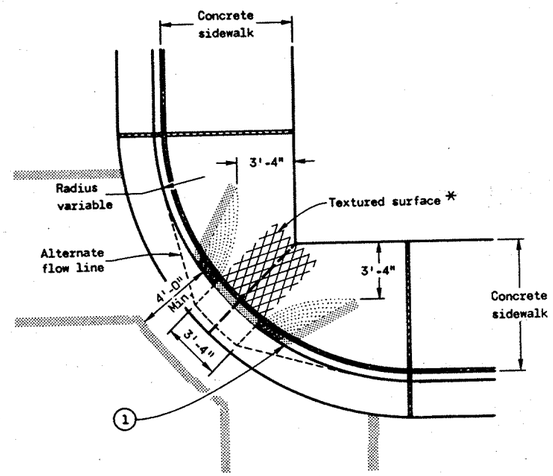
S.D.D. 8 D 1-11



PLAN VIEW

TYPE 1 RAMP

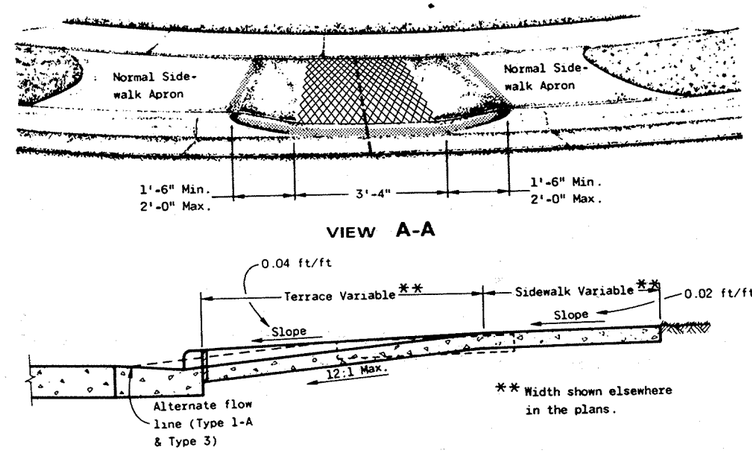
(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)



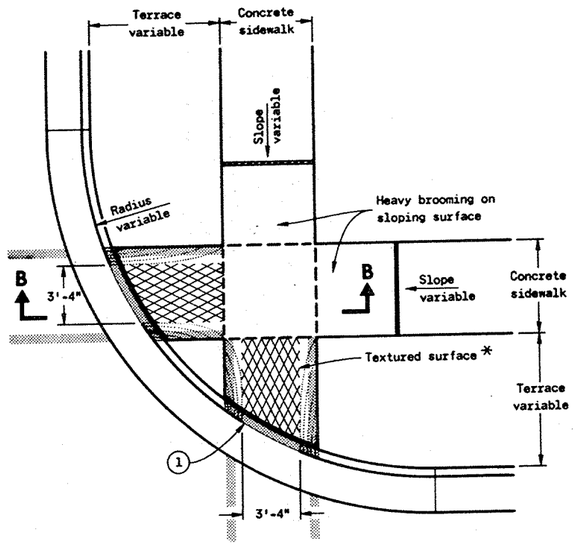
VIEW **A-A**

SECTION **B-B**

$\frac{1}{2}$" ═══ EXPANSION JOINTS - SIDEWALK

— — — CONTRACTION JOINTS

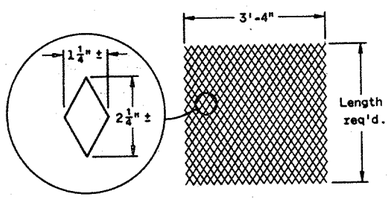
Location of joints may be varied from those shown to better fit site conditions and/or local government preference.



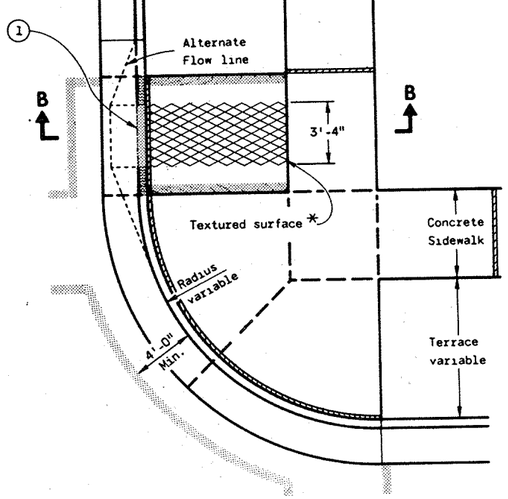
PLAN VIEW

TYPE 2 RAMP

(ON LINE WITH SIDEWALK)



DETAIL OF DIAMOND PATTERN *



PLAN VIEW

TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)

GENERAL NOTES

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

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

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

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

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

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

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

CURB RAMPS

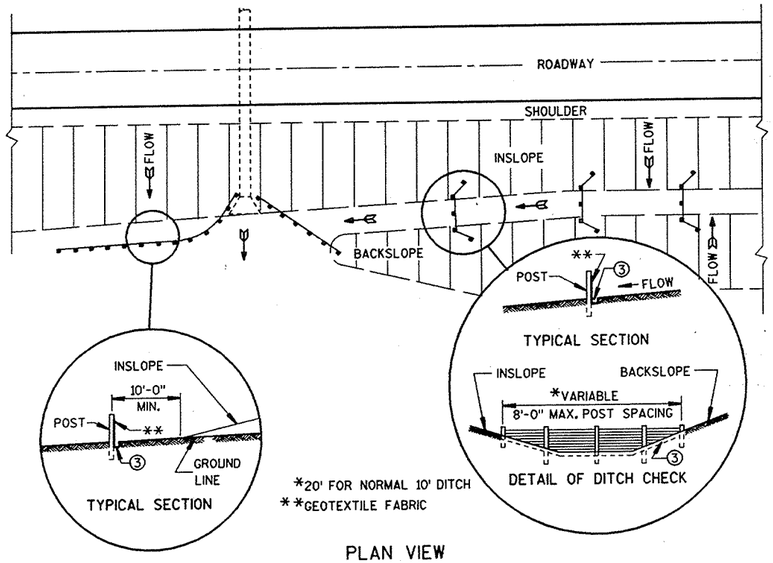
State of Wisconsin
Department of Transportation

APPROVED 10-23-84
DATE
FHWA

CHIEF DESIGN ENGINEER

S.D.D. 8 D 5-8

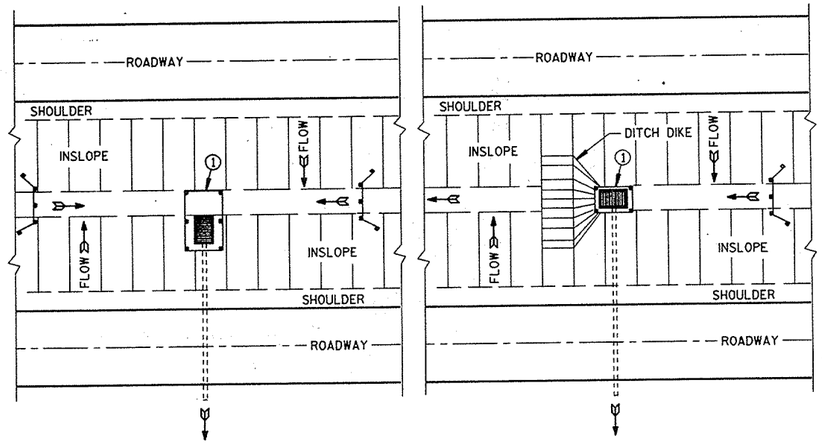
S.D.D. 8 D 5-8



*20' FOR NORMAL 10' DITCH
**GEOTEXTILE FABRIC

PLAN VIEW

TYPICAL APPLICATIONS OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

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

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

① CROSS BRACE WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS AS DIRECTED BY THE ENGINEER.

② MINIMUM 14 GAGE WIRE REQUIRED. FOLD FABRIC 3" OVER THE WIRE AND STAPLE OR PLACE WIRE RINGS ON 12" C-C.

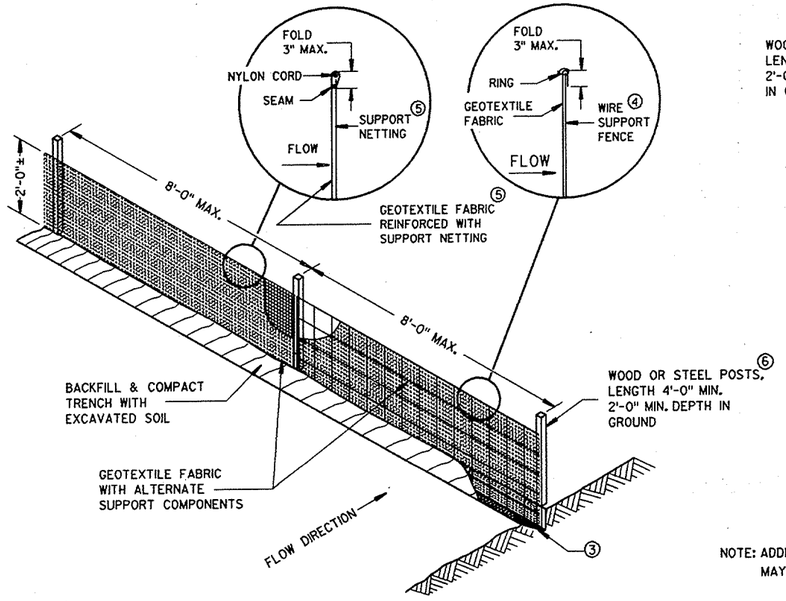
③ EXCAVATE A TRENCH A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

④ WIRE SUPPORT FENCE SHALL BE 14 GAGE MINIMUM WOVEN WIRE WITH A MAXIMUM MESH SPACING OF 6". SECURE TOP OF GEOTEXTILE FABRIC TO TOP OF FENCE WITH STAPLES OR WIRE RINGS AT 12" C-C.

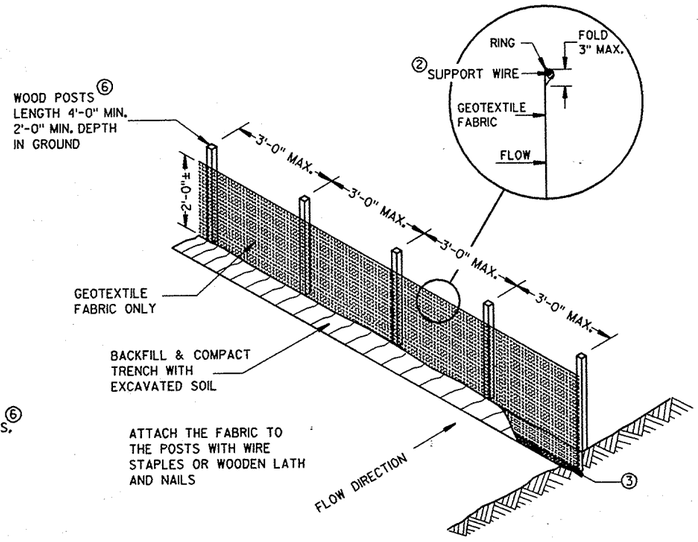
⑤ GEOTEXTILE FABRIC SHALL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF ¾" OR EQUAL. A HEAVY DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED.

⑥ STEEL POSTS SHALL BE STUDDED "TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 1.28 LBS/LINEAL FOOT (WITHOUT ANCHOR). FIN ANCHORS SUFFICIENT TO RESIST POST MOVEMENT ARE REQUIRED. WOOD POSTS SHALL BE A MINIMUM SIZE OF 4" DIA. OR 1½" X 3½" EXCEPT WOOD POSTS FOR GEOTEXTILE FABRIC REINFORCED WITH NETTING SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OAK OR HICKORY.

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

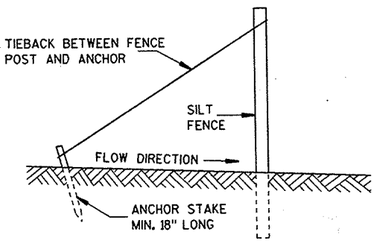


ALTERNATE "A"



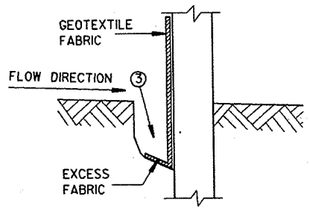
ALTERNATE "B"

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



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



TRENCH DETAIL

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 8-31-88 (DATE)
STATE DESIGN ENGINEER FOR HWYS

FHWA

S.D.D. 8 E 9-3

S.D.D. 8 E 9-3

METAL APRON ENDWALLS

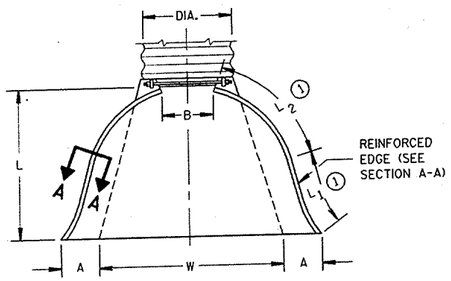
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1½")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17½	24	2½ to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21¾	30	2½ to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28¼	36	2½ to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29⅝	42	2½ to 1	1 Pc.
24	.079	.075	10	13	6	41	18	37¼	48	2½ to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52¼	60	2½ to 1	1 Pc.
36	.109	.105	14	19	9	60	24	59¾	72	2½ to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75⅞	84	2½ to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2¼ to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85½	102	2¼ to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1½ to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1½ to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1½ to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1½ to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

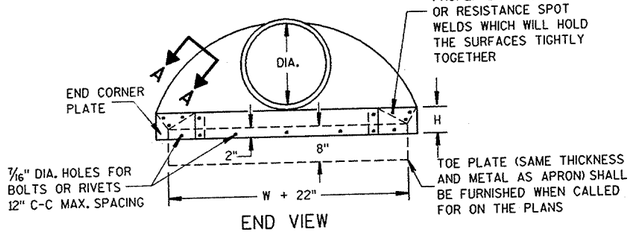
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE
	T	A	B	C	D	E	G	
12	2	4	24	48⅞	72⅞	24	2	3 to 1
15	2¼	6	27	46	73	30	2¼	3 to 1
18	2½	9	27	46	73	36	2½	3 to 1
21	2¾	9	36	37½	73½	42	2¾	3 to 1
24	3	9½	43½	30	73½	48	3	3 to 1
27	3¼	10½	49½	24	73½	54	3¼	3 to 1
30	3½	12	54	19¾	73½	60	3½	3 to 1
36	4	15	63	34¾	97¼	72	4	3 to 1
42	4½	21	63	35	98	78	4½	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5½	27	65	* 33¼-35 **	* 98¼-100 **	90	5½	2⅔ to 1
60	6	* 30-35 **	60	39	99	96	5	2 to 1
66	6½	* 24-30 **	* 72-78 **	* 21-27 **	99	102	5½	2 to 1
72	7	* 24-36 **	78	21	99	108	6	2 to 1
78	7½	* 24-36 **	78	21	99	114	6½	2 to 1
84	8	36	90½	21	111½	120	6½	1½ to 1
90	8½	41	87½	24	111½	132	6½	1½ to 1

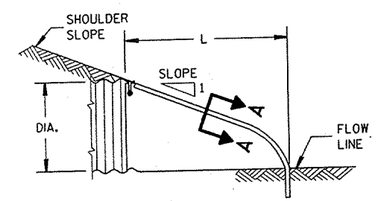
*MINIMUM
**MAXIMUM



PLAN VIEW

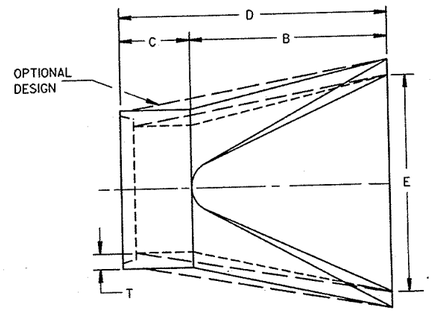


END VIEW

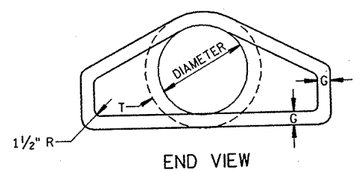


SIDE ELEVATION

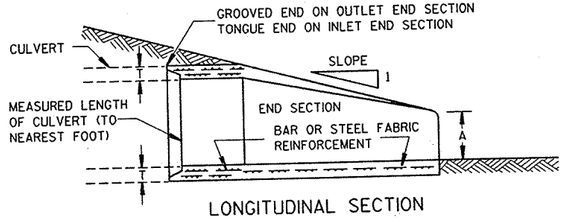
METAL ENDWALLS



PLAN

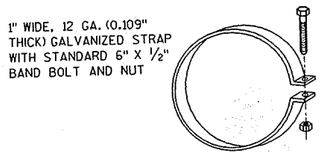


END VIEW



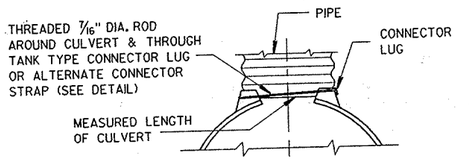
LONGITUDINAL SECTION

CONCRETE ENDWALLS

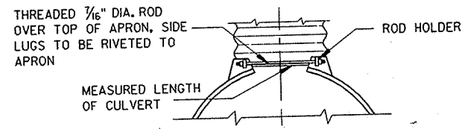


ALTERNATE FOR TYPE 1 CONNECTION

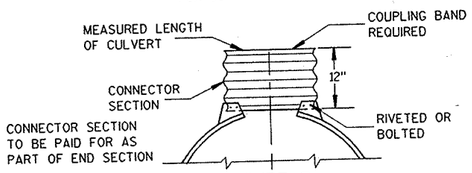
END SECTION CONNECTOR STRAP



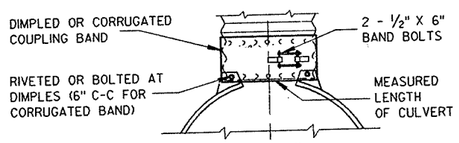
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

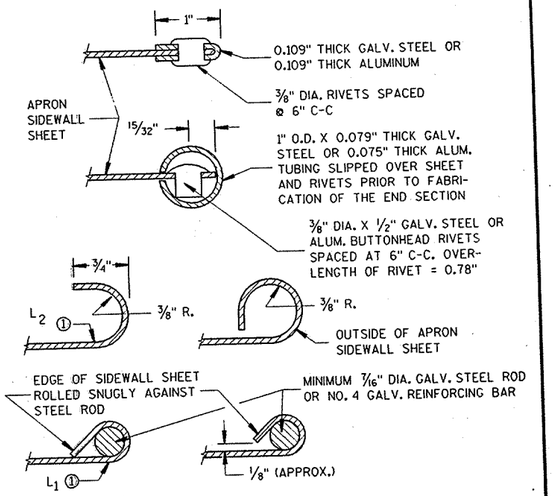
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

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

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

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

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

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

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

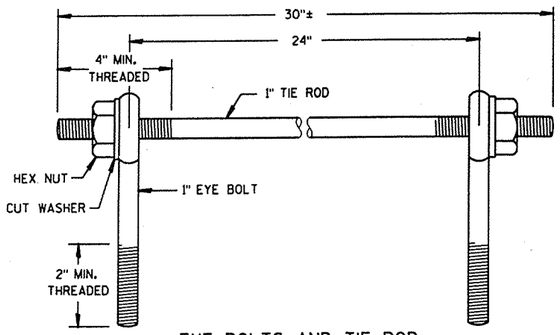
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

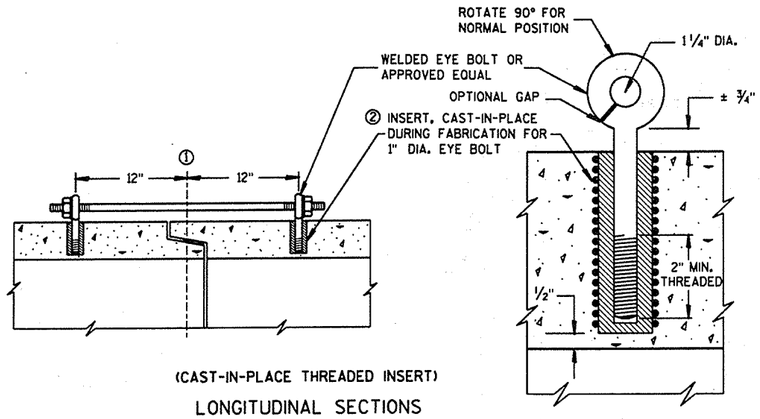
APPROVED 12/17/87 DATE
STATE DESIGN ENGINEER FOR HWYS
FHWA

S.D.D. 8 F 1-10a

S.D.D. 8 F 1-10a



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

GENERAL NOTES

CONCRETE CULVERT PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED ON THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES. UNLESS OTHERWISE STATED IN THE CONTRACT THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE CULVERT PIPE AS INDICTED ON THE PLANS AND BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO CILVERT PIPE, REINFORCED CONCRETE CULVERT PIPE, OR REINFORCED CONCRETE PIPE CATTLE PASS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

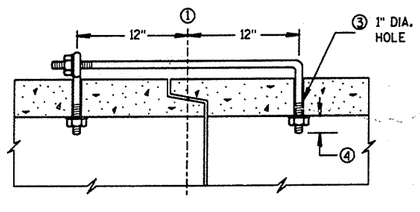
③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12" FROM ℄ OF TONGUE AND GROOVE.

④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2".

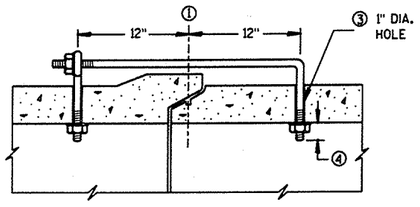
⑤ ROD DIAMETER + 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)



(TONGUE & GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

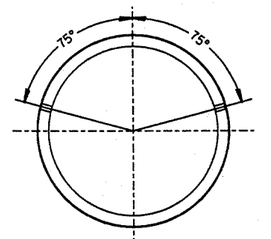
EYE BOLT DIMENSION TABLE

PIPE SIZE	L = 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 1/2"	
66"	8"	

ADJUSTABLE TIE ROD TABLE

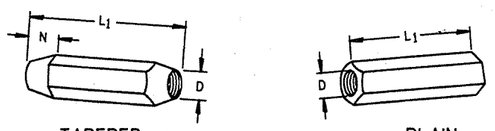
PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

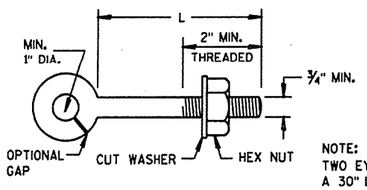
TRANSVERSE SECTION



TAPERED PLAIN

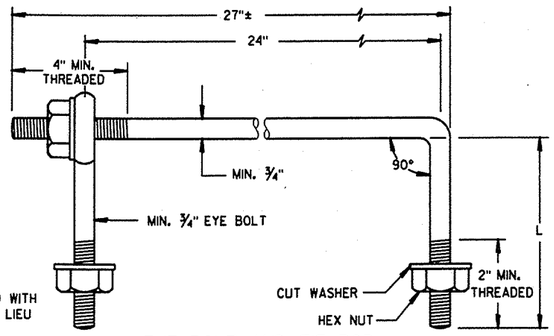
RIGHT AND LEFT THREADS

SLEEVE NUTS



EYE BOLT

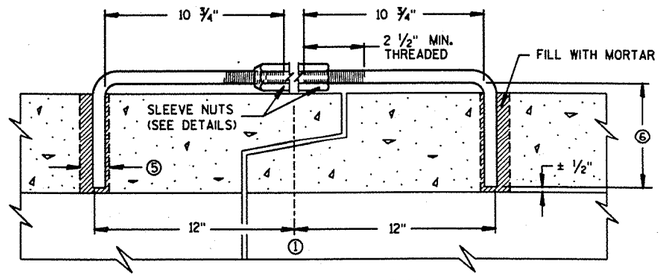
NOTE:
TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)



LONGITUDINAL SECTION

(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)

JOINT TIES FOR CONCRETE PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

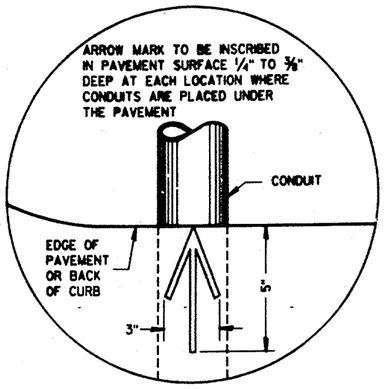
APPROVED 9/10/92 DATE

STATE DESIGN ENGINEER FOR HWYS

FHWA

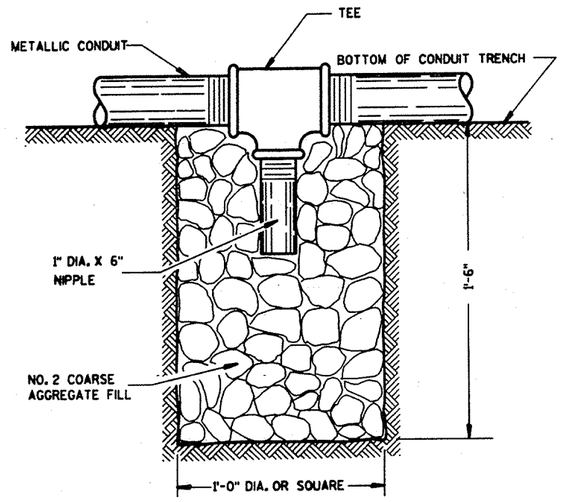
S.D.D. 8 F 4-5

S.D.D. 8 F 4-5



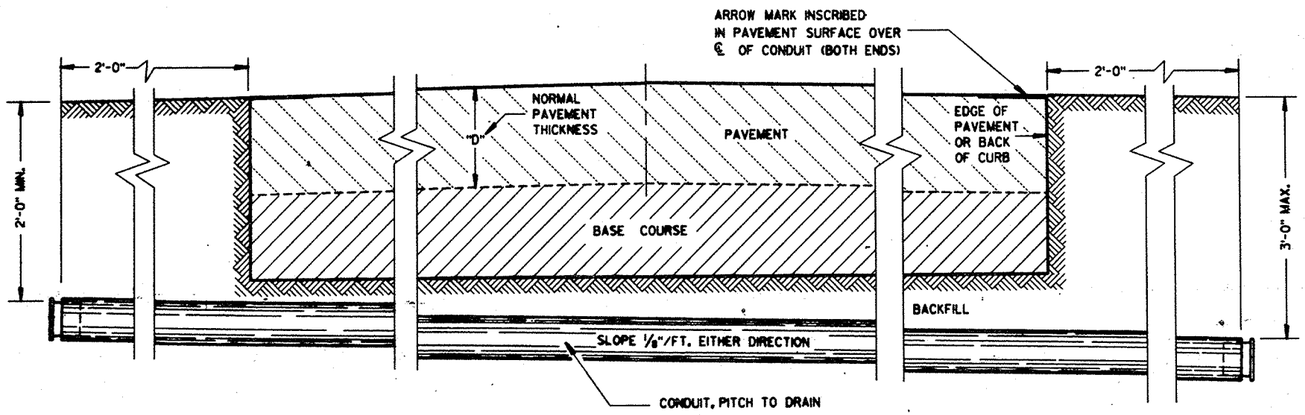
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR CONDUIT



SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 613.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 613.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX).

A #12 GAUGE, GALVANIZED PULL WIRE SHALL BE INSTALLED IN EACH RUN OF CONDUIT THAT DOES NOT RECEIVE CABLE OR WIRE UNDER THIS CONTRACT. THE PULL WIRE SHALL BE DOUBLED BACK 2 FEET AT EACH END CAP OF THE CONDUIT RUN.

BENDING OF PVC SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS UNLESS OTHERWISE APPROVED BY THE PROJECT ENGINEER.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

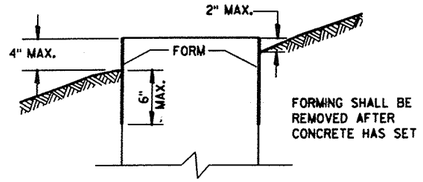
4/16/92 DATE — STATE ELECTRICAL ENGR FOR HWYS

9/15/92 DATE — STATE TRAFFIC ENGINEER FOR HWYS

FHWA

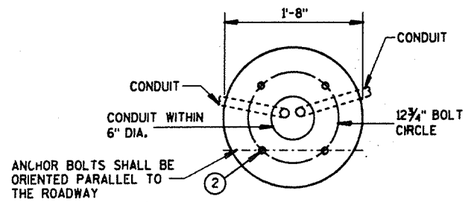
SDD. 9 B 2-5

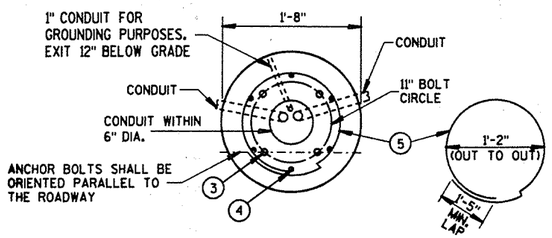
FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE

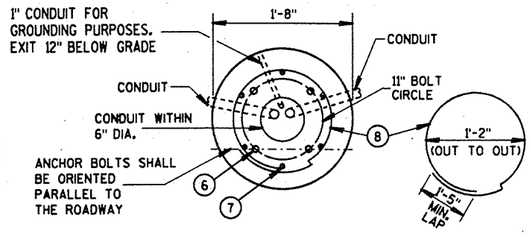


FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5
APPROX. CUBIC YARDS OF CONCRETE	.32	.57	.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

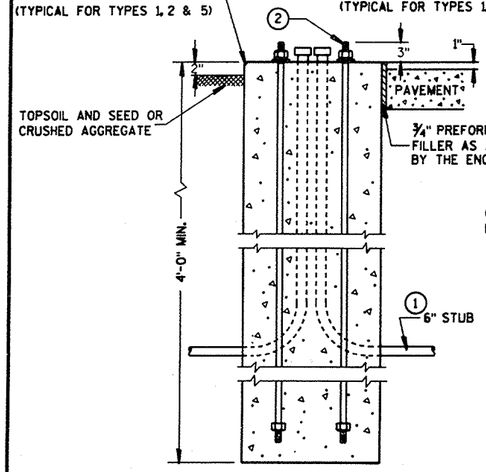






FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2 & 5)

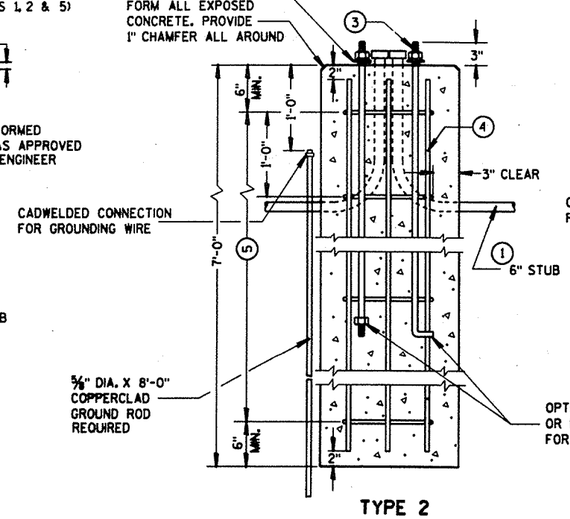


HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2 & 5)

TYPE 1

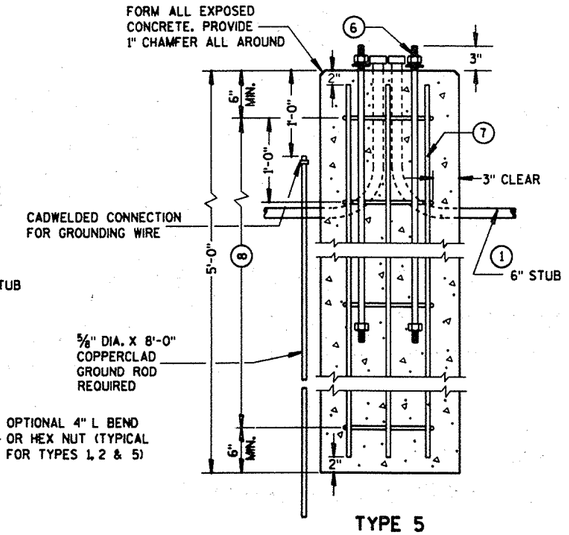
LOCK WASHER (TYPICAL)

FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND



TYPE 2

FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND



TYPE 5

CONCRETE BASES

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL BE PLUGGED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 6 AWG, STRANDED COPPER GROUNDING WIRE SHALL BE CADWELDED TO THE GROUND ROD FOR TYPE 2 AND TYPE 5 BASES.

THE GROUNDING WIRE SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE GROUNDING WIRE SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR BOLTS SHALL BE THREADED 8" IN LENGTH ON EACH END OF THE BOLT, AND BE MANUFACTURED IN ACCORDANCE WITH SECTION 640.2.9 OF THE STANDARD SPECIFICATIONS, AND ASTM A-449.

WHEN ANCHOR BOLTS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR BOLT BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR BOLTS.

(3) (4) 1" DIA. X 5'-0" ANCHOR BOLTS.

(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

(6) (4) 1" DIA. X 3'-6" ANCHOR BOLTS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT

(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

CONCRETE BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/10/92 DATE — STATE ELECTRICAL ENGR FOR HWYS

9/15/92 DATE — STATE TRAFFIC ENGINEER FOR HWYS

FHWA

S.D.D. 9 B 3-6

S.D.D. 9 B 3-6

GENERAL NOTES

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

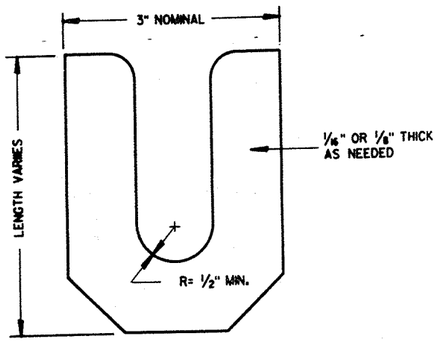
FOUR (4) BOLTS TO BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM A-449, AND BE GALVANIZED IN ACCORDANCE WITH ASTM A-153, CLASS C.

4" BOLTS SHALL BE IN ACCORDANCE WITH SECTION 640.2.9 OF THE STANDARD SPECIFICATIONS

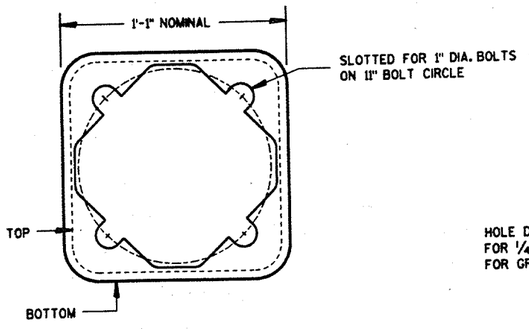
LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

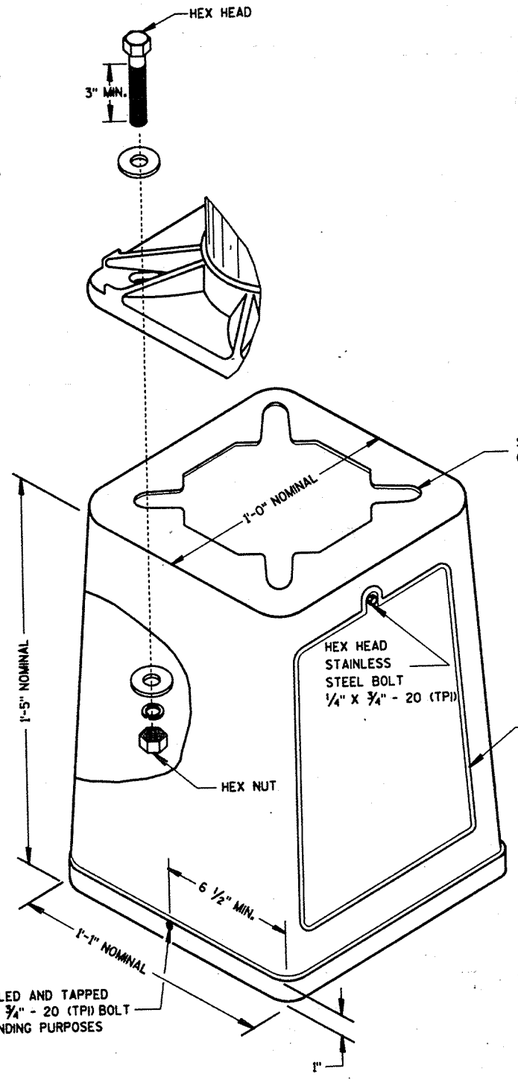
DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.



LEVELING SHIM



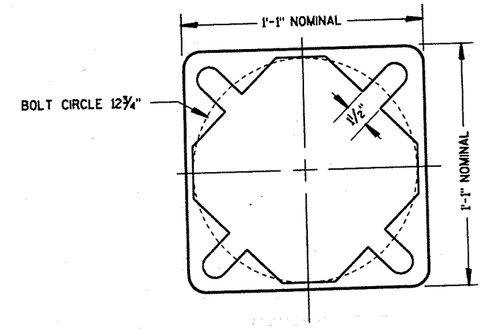
BOTTOM VIEW
(TRANSFORMER BASE)



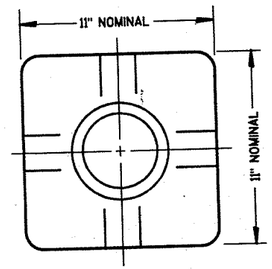
ISOMETRIC VIEW

TRANSFORMER BASE

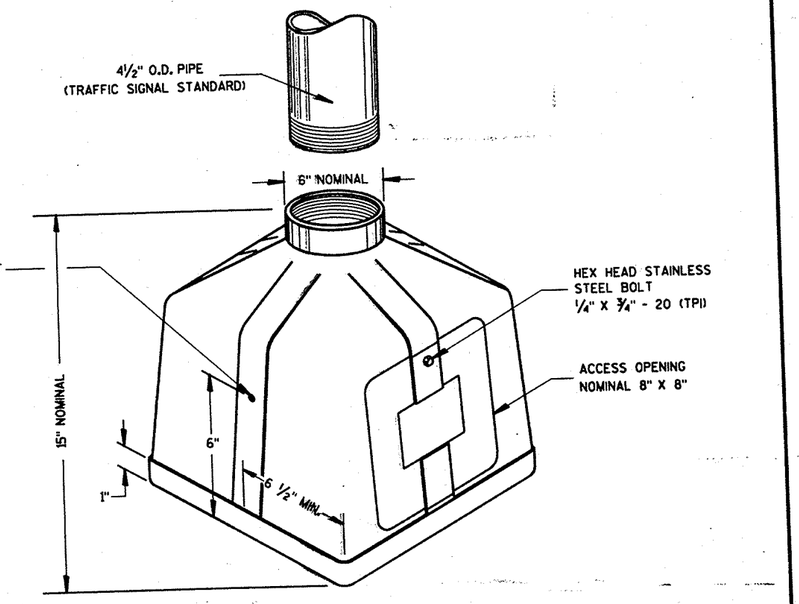
INTENDED FOR USE WITH TYPE 2, 3, 4 & 5 POLES



BOTTOM VIEW
(PEDESTAL BASE)



TOP VIEW
(PEDESTAL BASE)



ISOMETRIC VIEW
PEDESTAL BASE

CAST BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

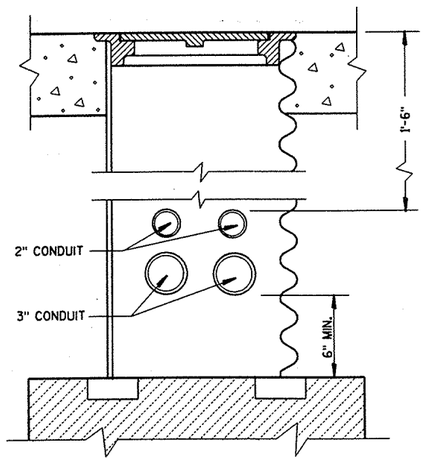
APPROVED
9/10/92 DATE — STATE ELECTRICAL ENGR FOR HWYS
9/15/92 DATE — STATE TRAFFIC ENGINEER FOR HWYS

FHWA

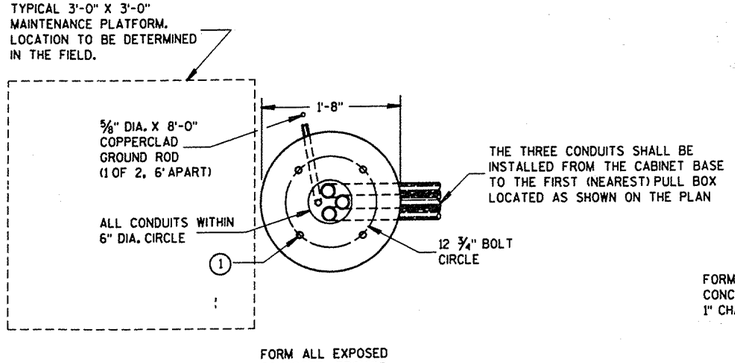
S.D.D. 9 B 6-3

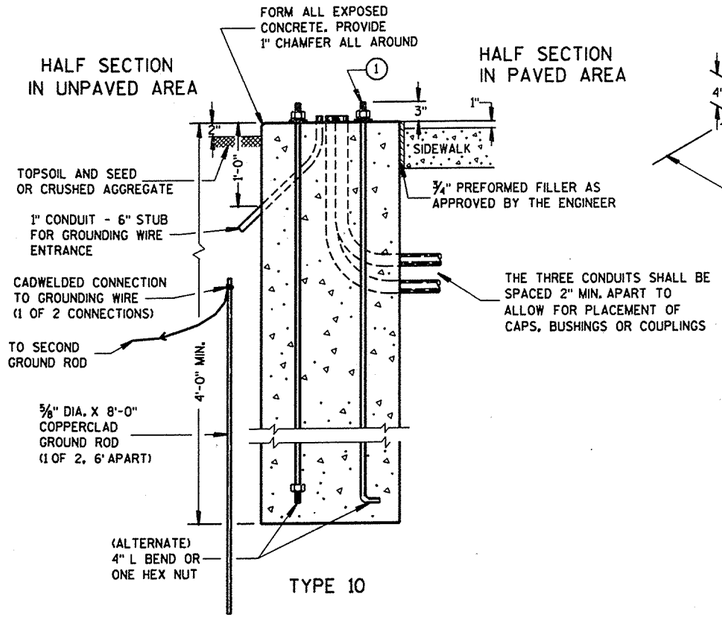
S.D.D. 9 B 6-3

CONTROL CABINET BASE TYPE	DIMENSIONS				C.Y. CONCRETE (APPROX.)
	H	I	J	K	
TYPE 6 - 30" CABINET	34"	60"	10"	17"	.64
TYPE 7 - 38" CABINET	42"	60"	10"	21"	.93
TYPE 8 - 38" CABINET	42"	72"	12"	21"	1.29
TYPE 9 - VARIABLE	54"	72"	14"	27"	1.56
TYPE 10 - POST MOUNT	AS SHOWN				.32

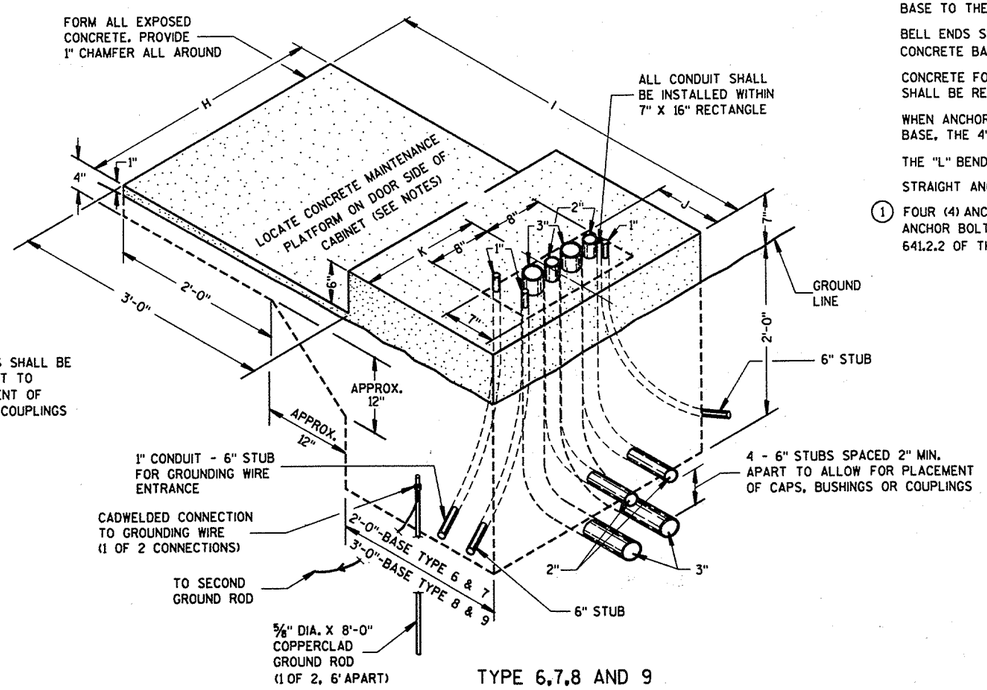


CONDUIT LOCATIONS IN 24" X 36" PULL BOX
(LEADING TO CONTROLLER CABINET BASE TYPE 6, 7, 8 AND 9)





TYPE 10



TYPE 6,7,8 AND 9
(ISOMETRIC VIEW)

CONCRETE CONTROL CABINET BASES

GENERAL NOTES

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

INSTALL FOUR 1/2 INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR BOLTS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL.

WHEN A TYPE 10 CONTROL CABINET BASE IS USED TO POST MOUNT A CONTROL CABINET, A 36" SQUARE 4" THICK CONCRETE MAINTENANCE PLATFORM SHALL BE REQUIRED ON THE DOOR SIDE OF THE CABINET. THE TOP 1 INCH SHALL BE ABOVE FINISHED GRADE AND BE BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

ALL FOUR (TWO INCH AND THREE INCH) CONDUIT SHALL BE INSTALLED FROM THE CABINET BASE TO THE FIRST (NEAREST) PULL BOX LOCATED AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

WHEN ANCHOR BOLTS USING THE ALTERNATE L BEND ARE FURNISHED FOR THE TYPE 10 BASE, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR BOLT BAR LENGTH.

THE "L" BEND SHALL NOT BE THREADED.

STRAIGHT ANCHOR BOLTS SHALL BE THREADED 8" IN LENGTH ON EACH END OF THE BOLT.

(1) FOUR (4) ANCHOR BOLTS, 1" DIA. X 3'-6" ANCHOR BOLTS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 640.2.9 AND 641.2.2 OF THE STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A-449.

CONCRETE CONTROL CABINET BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

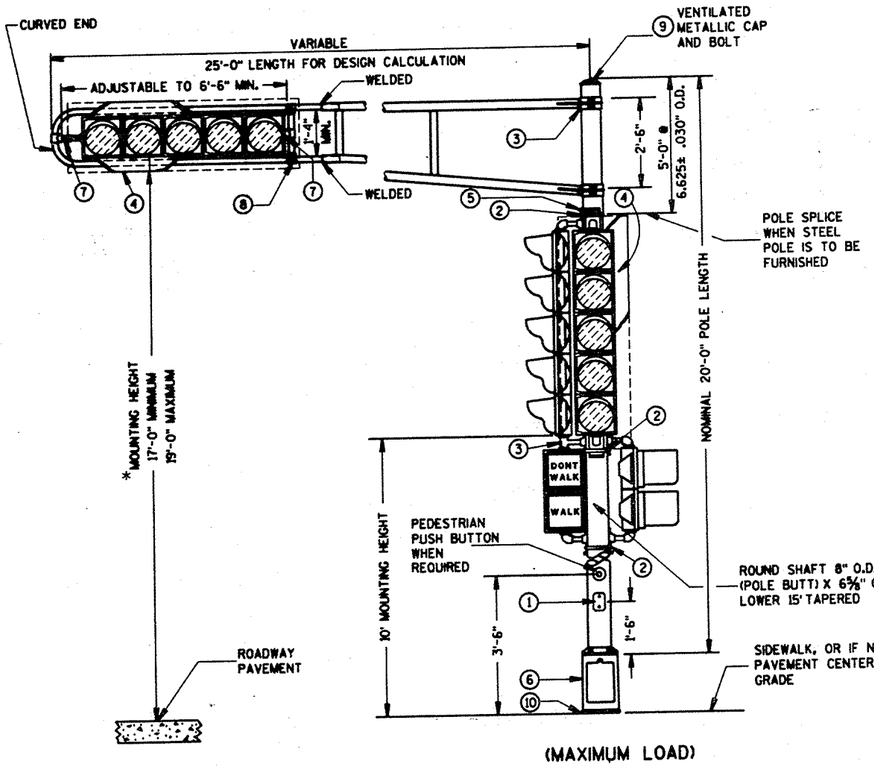
4/16/92 DATE — STATE ELECTRICAL ENGR FOR HWYS

9/15/92 DATE — STATE TRAFFIC ENGINEER FOR HWYS

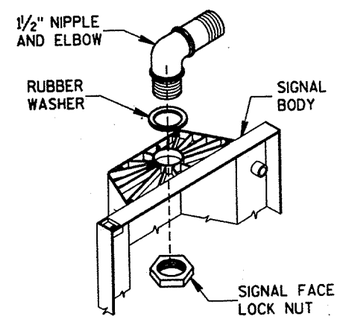
FHWA

S.D.D. 9 B 9-3

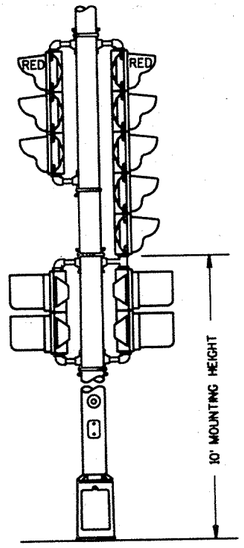
S.D.D. 9 B 9-3



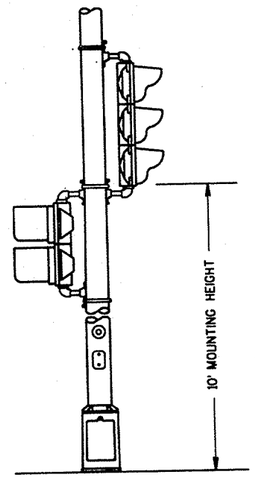
(MAXIMUM LOAD)



SIGNAL FACE MOUNTING DETAIL



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



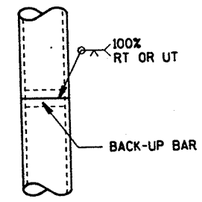
TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE

GENERAL NOTES

1. 4" X 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.
2. SIGNAL FACE MOUNTING BRACKETS, MOUNT WITH CAP SCREWS AND BANDING. (SEE SPECIAL PROVISIONS).
3. GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.
4. BACKBOARDS ARE REQUIRED AT ALL TIMES ON TROMBONE MAST ARM MOUNTED SIGNAL FACES. VERTICAL MOUNTED SIGNAL FACES WITH BACKBOARDS REQUIRED ARE LOCATED AS SHOWN ON THE PLANS. BACKBOARDS ARE REQUIRED TO SURROUND SIGNAL FACES. BACKBOARDS SHALL EXTEND 5" BEYOND EXTREMITIES OF THE SIGNAL FACE.
5. POLE MOUNTED SIGNAL FACES SHALL REQUIRE 1 OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACES.
6. CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.
7. 1½" PIPE THREAD ON THE MOUNTING BRACKET NIPPLES FOR THE SIGNAL FACE. NIPPLE SHALL BE 1½" X 2".
8. VERTICAL STRUT (ADJUSTABLE), ONE (1) SET SCREW (¼" X ¾" LONG-20 TPI, STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUT IS THE SLIDING TYPE.
9. FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.
10. SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

*MOUNTING HEIGHT LIMITATION DIMENSIONS OF THE TROMBONE MAST ARM WILL BE DEPENDENT UPON THE USE/NON-USE OF A TRANSFORMER BASE.

WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF CERTIFICATION OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO SHIPMENT OF THE POLES. VERIFICATION AND APPROVAL OF THE TESTING CERTIFICATION FROM THE MANUFACTURER SHALL BE COMPLETED BY THE CENTRAL OFFICE BRIDGE SECTION.



POLE SPLICE DETAIL

TYPE 2 POLE MOUNTING CONFIGURATION

NOTE:
SHEET SDD 9 B 11-2a IS REQUIRED WHEN THIS DRAWING IS CALLED FOR IN THE PLANS.

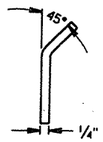
DESIGN NOTE: (WILL NOT APPEAR ON CONTRACT PLANS)
THIS DETAIL IS APPLICABLE WHEN SIGNALS ARE MOUNTED ON A TROMBONE ARM. DO NOT USE FOR LIGHTING.

POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2

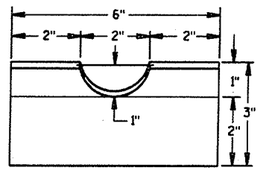
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 9 B 11-2a

S.D.D. 9 B 11-2a



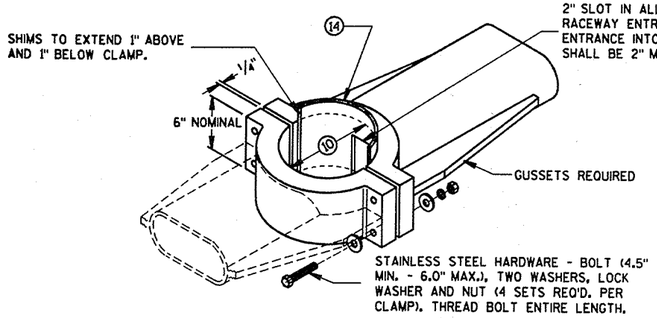
END VIEW



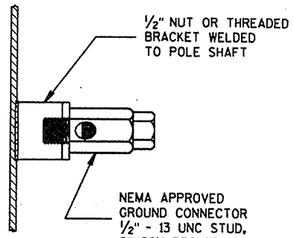
FRONT VIEW

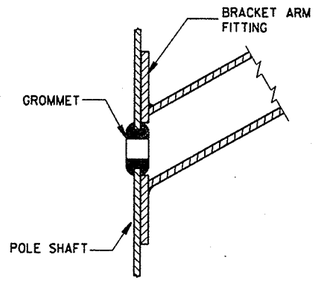
RECTANGULAR CLAMP SHIM

(4 TO A SET)



TYPICAL TROMBONE MAST ARM AND LUMINAIRE MAST ARM MOUNTING CLAMP





TYPICAL APPLICATION OF GROMMET IN POLE SHAFT

GENERAL NOTES

(10.) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11.) INDIVIDUAL BASE PLATE ANCHOR BOLT COVERS. (4 REQUIRED)

(12.) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR BOLTS.

(13.) OUTSIDE SHIM DIAMETER - (4.5" O.D. FOR LUMINAIRE MAST ARM)
(6.625" O.D. FOR TROMBONE MAST ARM)

(14.) VARIABLE SHIM THICKNESS - (0.10", 0.25", 0.35", 0.53" OR 0.70")

SHIM THICKNESS FOR TROMBONE MAST ARMS MAY BE TYPICALLY 0.35", 0.53" OR 0.70".

SHIM THICKNESS FOR LUMINAIRE MAST ARMS MAY BE TYPICALLY 0.10", 0.25" OR 0.35".

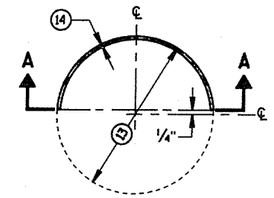
SHIM MATERIAL SHALL BE ALUMINUM ALLOY.

SHIM THICKNESS SHALL BE IMPRESSED INTO EACH SHIM. NUMERALS SHALL BE 1/4" HIGH AND LEGIBLE.

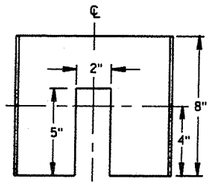
THE CONTRACTOR SHALL SUBMIT TWO COPIES OF ALL SHIM SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL.

(15.) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



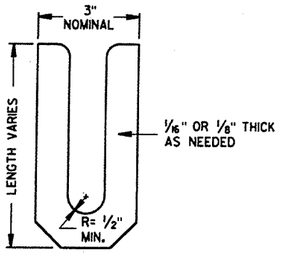
PLAN VIEW



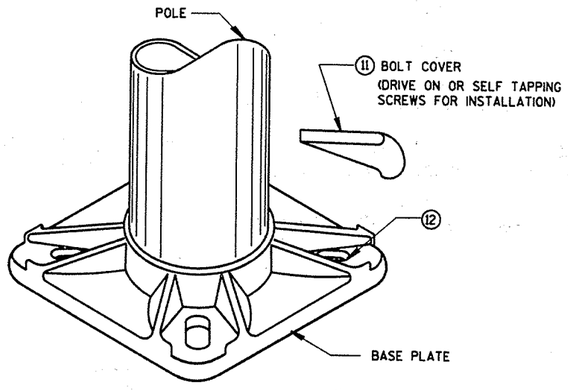
SECTION A-A

CIRCULAR CLAMP SHIM

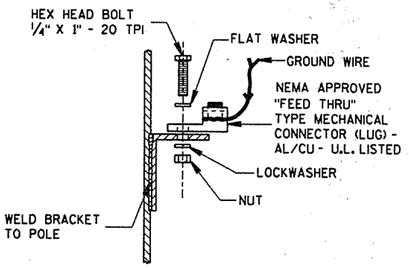
(2 TO A SET)



LEVELING SHIM (15)

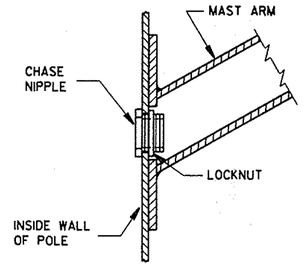


BASE PLATE

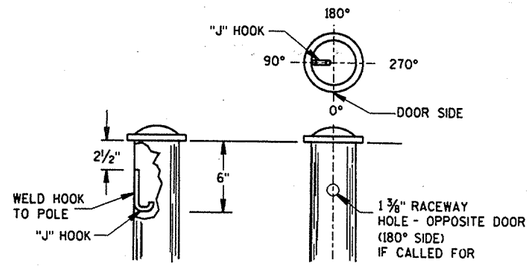


TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT



TYPICAL "J" HOOK LOCATION

NOTE:

THIS DRAWING IS REQUIRED WHEN DRAWINGS SDD 9 B 11-1a, b, c, OR d IS CALLED FOR IN THE PLANS.

HARDWARE DETAILS FOR POLE MOUNTINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/16/92 — STATE ELECTRICAL ENGR FOR HWYS
DATE

9/15/92 — STATE TRAFFIC ENGINEER FOR HWYS
DATE

FHWA

S.D.D. 9 B 11-2e

S.D.D. 9 B 11-2e

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		TYPE OF PIPE						
		CORRUGATED STEEL						POLYETHYLENE SDR 32.5
PIPE DIAMETER (INSIDE)	A	12	12	18	18	24	24	12
PIPE LENGTH **	B	24	36	24	36	24	36	24
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.4
COVER	D	10 1/4	10 1/4	16 1/4	16 1/4	22 1/4	22 1/4	10 1/4
FRAME	E	14 1/2	14 1/2	20 1/2	20 1/2	26 1/2	26 1/2	14 1/2
FRAME	F	8 1/2	8 1/2	14 1/2	14 1/2	20 1/2	20 1/2	8 1/2
FRAME	G	11 1/2	11 1/2	17 1/2	17 1/2	23 1/2	23 1/2	11 1/2
WEIGHT IN POUNDS *								
FRAME AND COVER		60	60	110	110	155	155	60

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED)

GENERAL NOTES

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

POLYETHYLENE PULL BOXES SHALL NOT BE INSTALLED IN CONCRETE OR ASPHALTIC PAVEMENT. PULL BOXES LOCATED IN THE ROADWAY SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

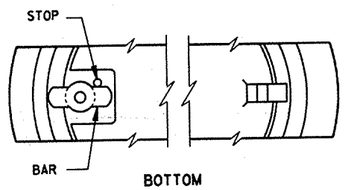
GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE. THE MECHANICAL CONNECTION (INSIDE AND OUTSIDE) TO THE PULL BOX, SHALL BE TOTALLY AND PERMANENTLY SEALED WITH A SILICONE OR RUBBERIZED CAULKING COMPOUND AS APPROVED BY THE ENGINEER.

GROUNDING LUGS ARE NOT REQUIRED IN PULL BOXES WHEN VOLTAGES OF LESS THAN 50 VOLTS AC ARE THE ONLY VOLTAGES ENCOUNTERED IN THE BOXES.

DRAIN DUCT SHALL BE MEASURED AND PAID FOR SEPARATELY.

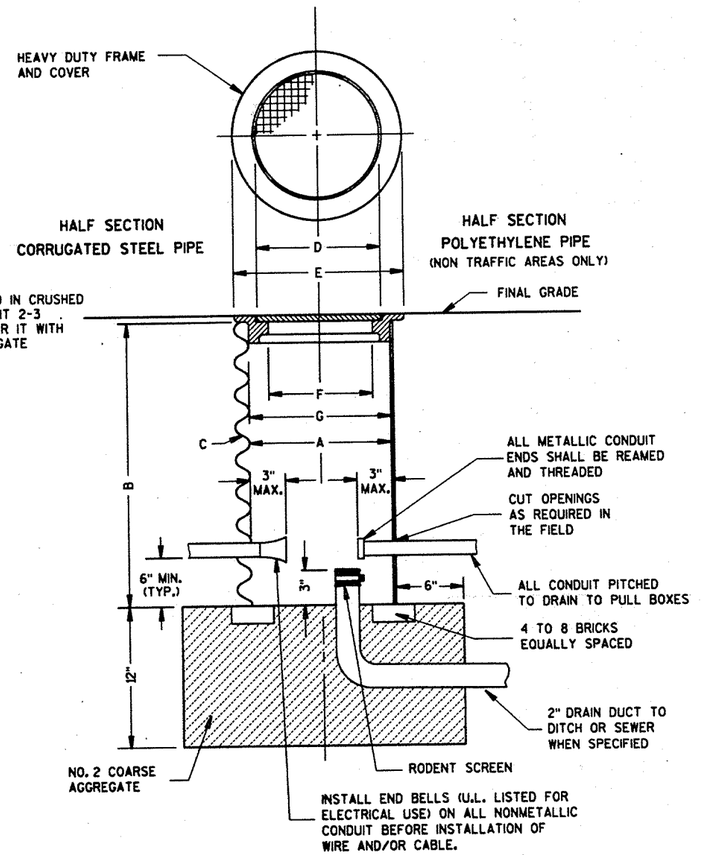
RODENT SCREEN SHALL BE 1/8" GALVANIZED STEEL MESH AND BE INSTALLED WITH A STAINLESS STEEL HOSE CLAMP OF SUFFICIENT SIZE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

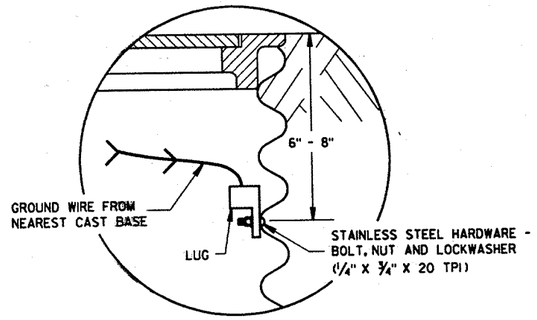


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



PULL BOX



GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

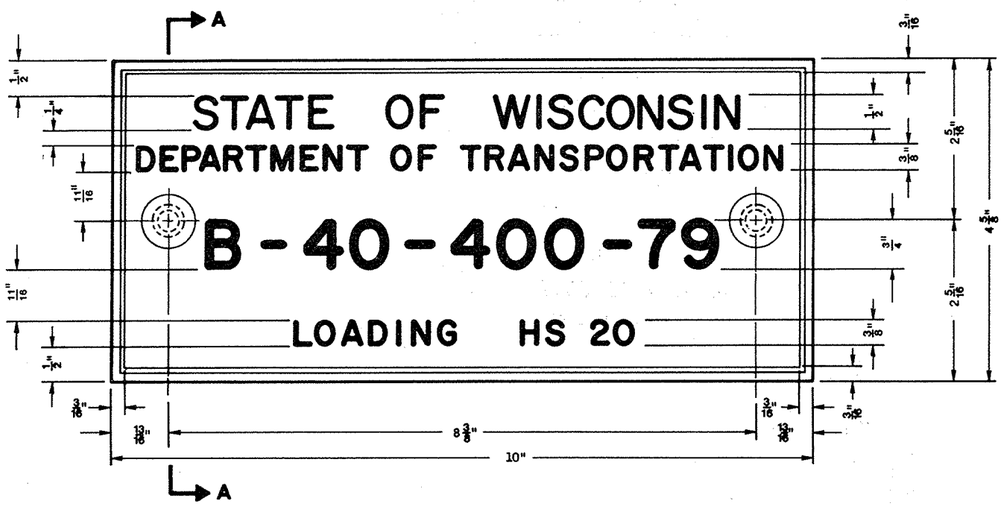
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 9/1/92 DATE
STATE TRAFFIC ENGINEER FOR HWYS

FHWA

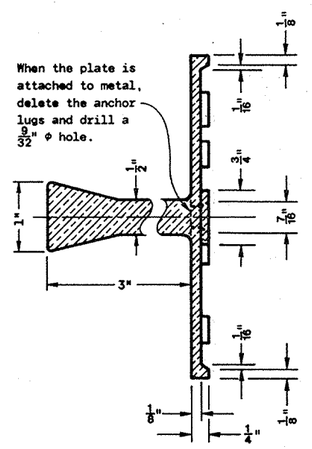
S.D.D. 9 B 10-3

S.D.D. 9 B 10-3

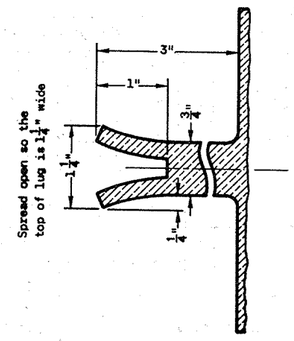


TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



SECTION A-A



ALTERNATE LUG

FOR MULTI-UNIT STRUCTURES LINES 4 AND 5 ABOVE SHALL READ:

B = Bridge
C = Culvert
RW = Retaining Wall

Year of Substantial Completion

County No.

Bridge No.

B-40-400-79

UNIT 1A HS 20M

Unit No. for Multiple Unit

Design Loading of Structure Indicated on the Plan

NUMBERING AND LOADING DESIGNATION
MULTI-UNIT STRUCTURES

GENERAL NOTES

Name Plates to be installed on Bridges, Culverts, and Retaining Walls shall conform to the requirements of Section 506.2.4 of the Standard Specifications.

The Bridge Number and Design Loading shown on this drawing are examples only. See Construction Plans for individual numbering and design loading.

NAME PLATE (STRUCTURES)

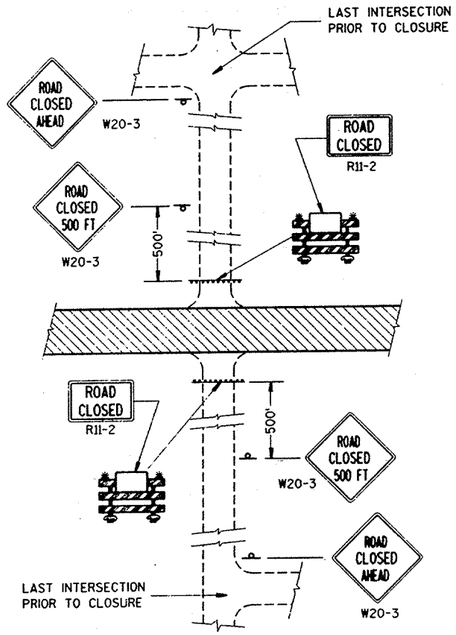
State of Wisconsin
Department of Transportation
Division of Transportation Facilities

APPROVED 9-27-79 DATE — CHIEF DESIGN ENGINEER

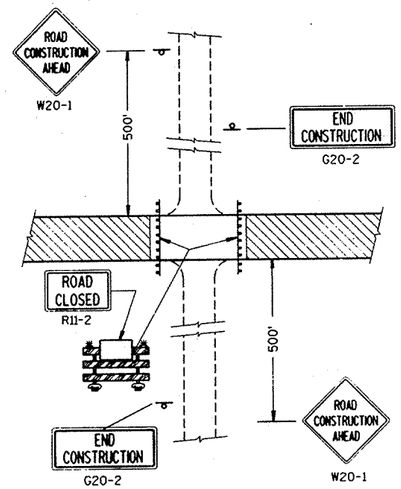
FHWA

S.D.D. 12 A 3-4

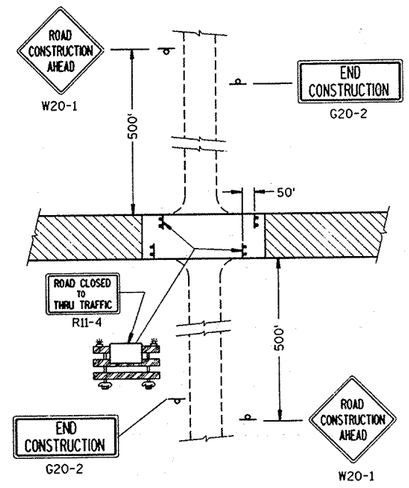
S.D.D. 12 A 3-4



DETAIL 1
(NO ACCESS TO PROJECT)



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



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

GENERAL NOTES

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

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

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

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

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2, "ROAD CLOSED" SIGNS SHALL BE 48" X 30".
- R11-3, AND R11-4 SIGNS SHALL BE 60" X 30".
- G20-2 SIGNS SHALL BE 60" X 24".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND AT LEAST ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN.

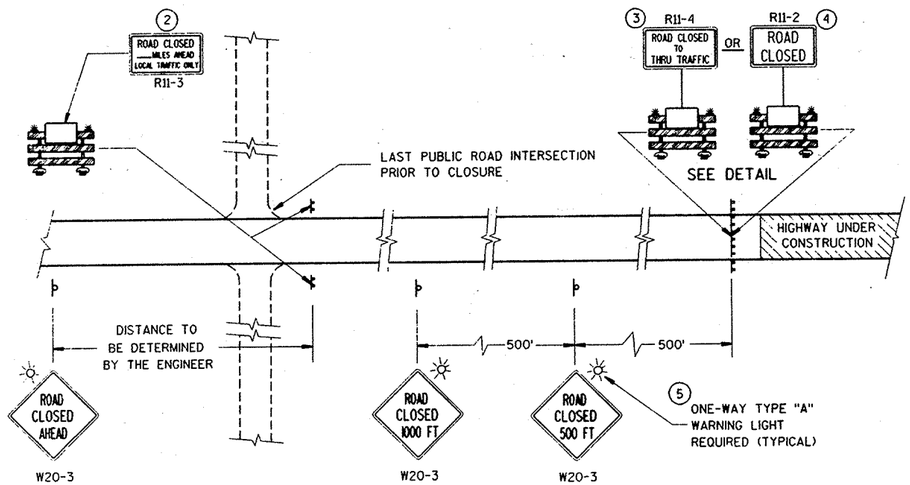
(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT. SEE LANE CLOSURE BARRICADE DETAIL.

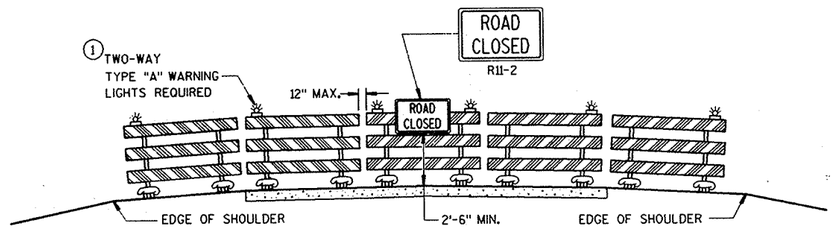
(4) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT. SEE ROAD CLOSURE BARRICADE DETAIL.

(5) ONE-WAY LIGHTS SHALL BE PROVIDED ON ALL ADVANCE WARNING SIGNS. THE UNIT SHALL BE POSITIONED SUCH THAT THE LIGHT SOURCE IS OUTSIDE THE SIGN FACE AND AT THE TOP OF THE SIGN.

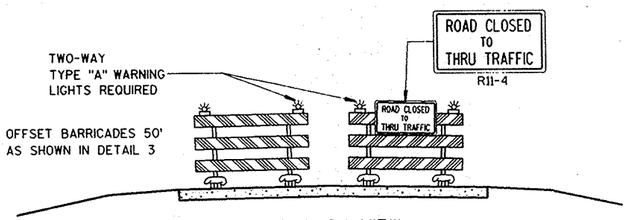
SIDEROAD CLOSURES



MAINLINE CLOSURE



APPROACH VIEW
ROAD CLOSURE BARRICADE DETAIL



APPROACH VIEW
LANE CLOSURE BARRICADE DETAIL

LEGEND

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

BARRICADES AND TRAFFIC CONTROL FOR ROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-31-83
DATE
STATE TRAFFIC ENGINEER FOR HWYS
FHWA

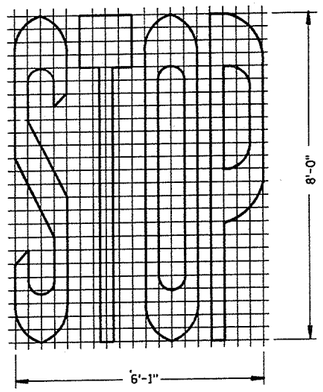
S.D.D. 15 C 2-2

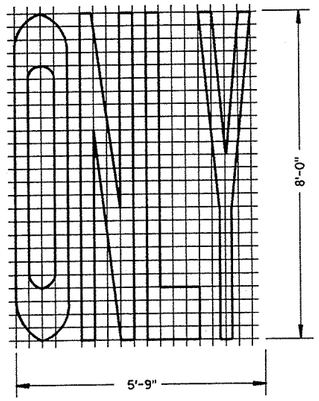
S.D.D. 15 C 2-2

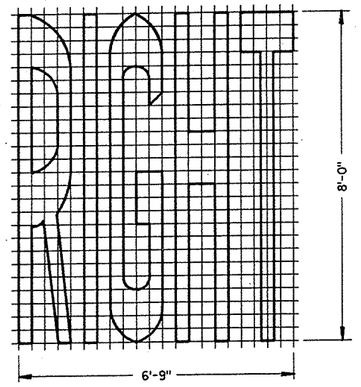
GENERAL NOTES

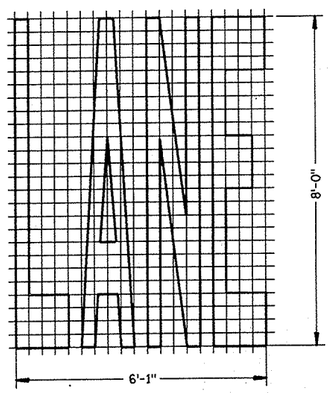
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

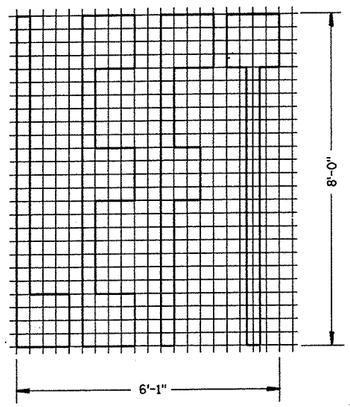
ALL LETTERS AND ARROWS SHALL BE WHITE AND REFLECTORIZED.

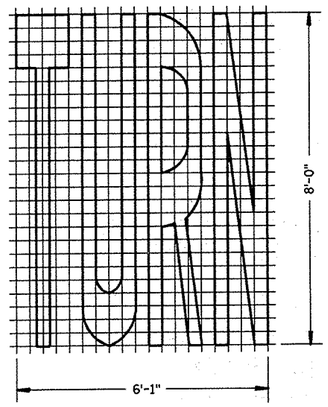


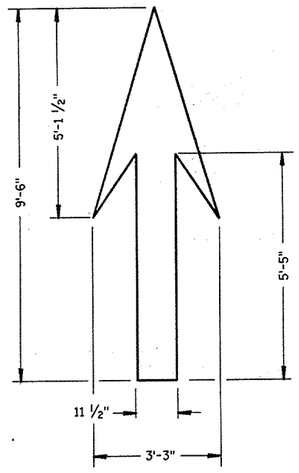




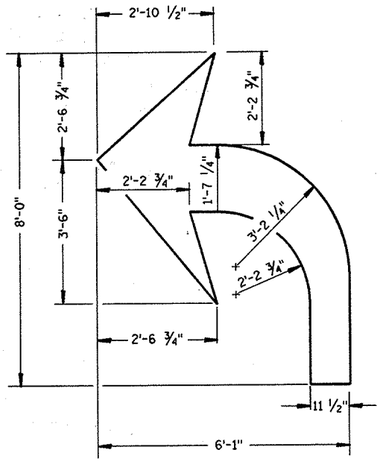




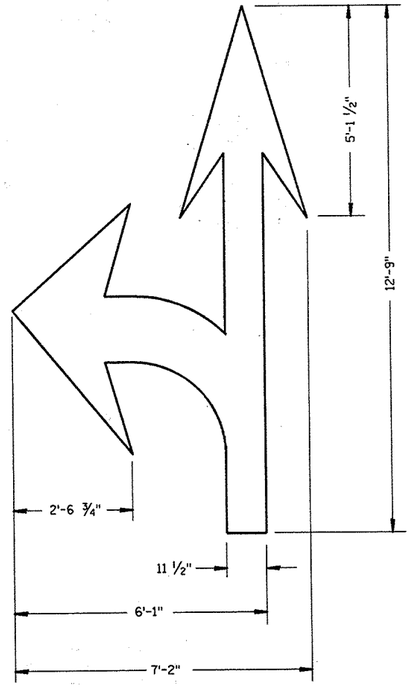




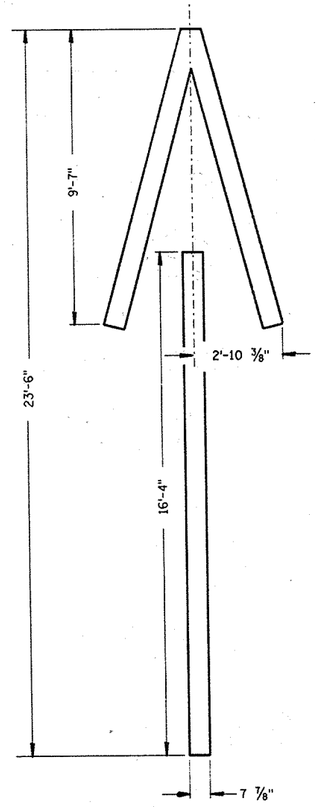
TYPE 1



TYPE 2



TYPE 3



TYPE 4

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

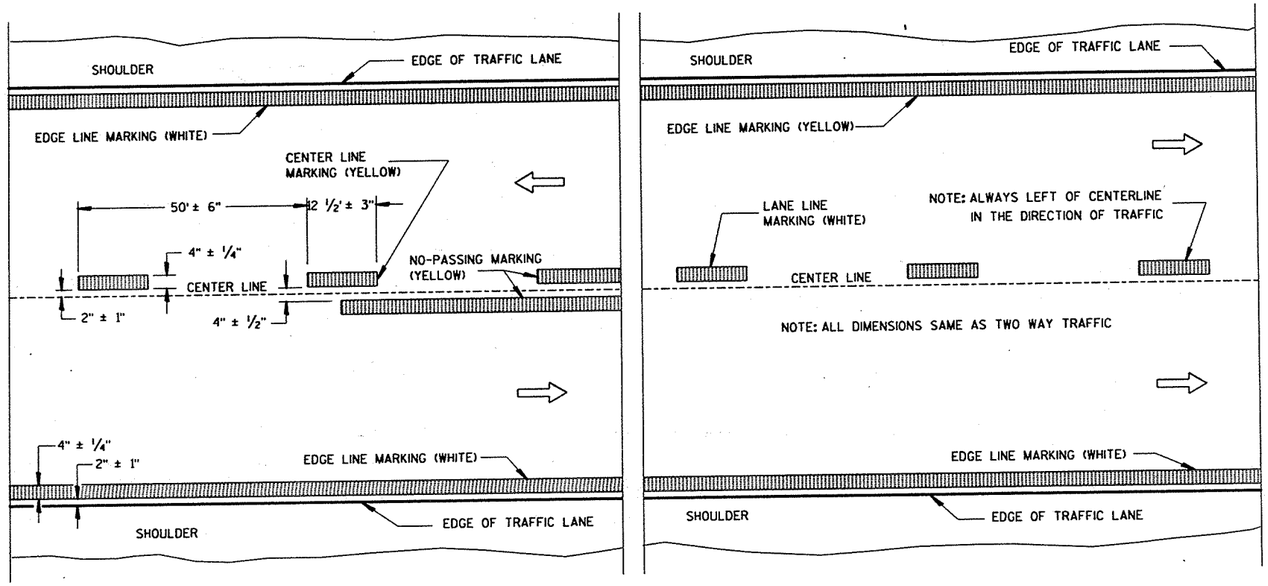
APPROVED
5-23-86
DATE

STATE TRAFFIC ENGINEER FOR HWYS

FHWA

S.D.D. 15 C 7-1

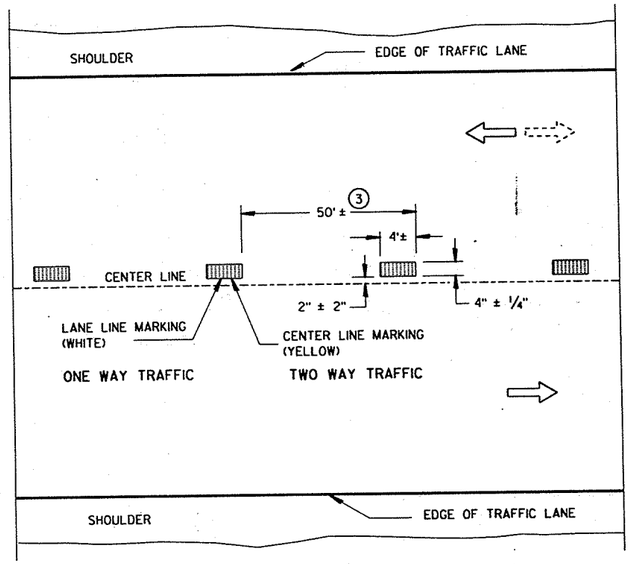
S.D.D. 15 C 7-1



TWO WAY TRAFFIC

ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TEMPORARY PAVEMENT MARKING

GENERAL NOTES

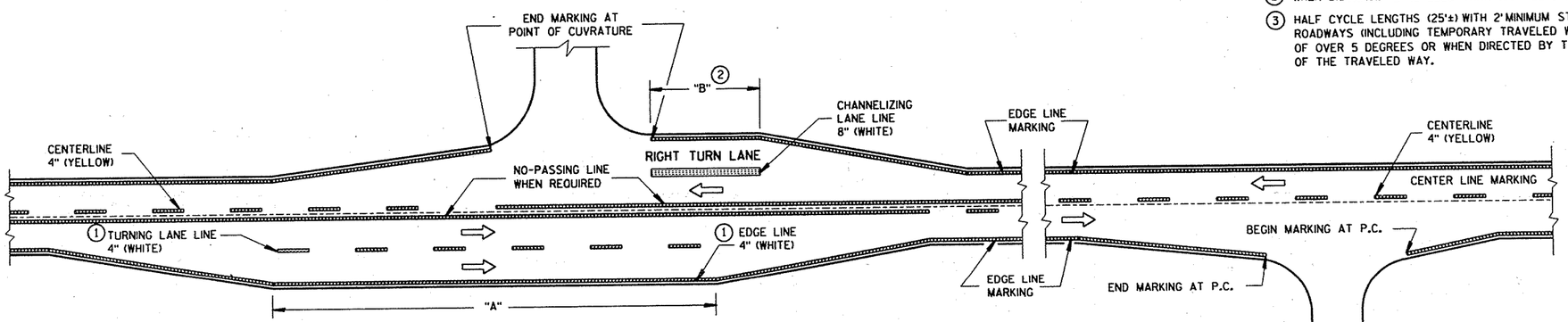
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT TURNING LANE MARKING.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.



MAJOR INTERSECTION

MINOR INTERSECTION

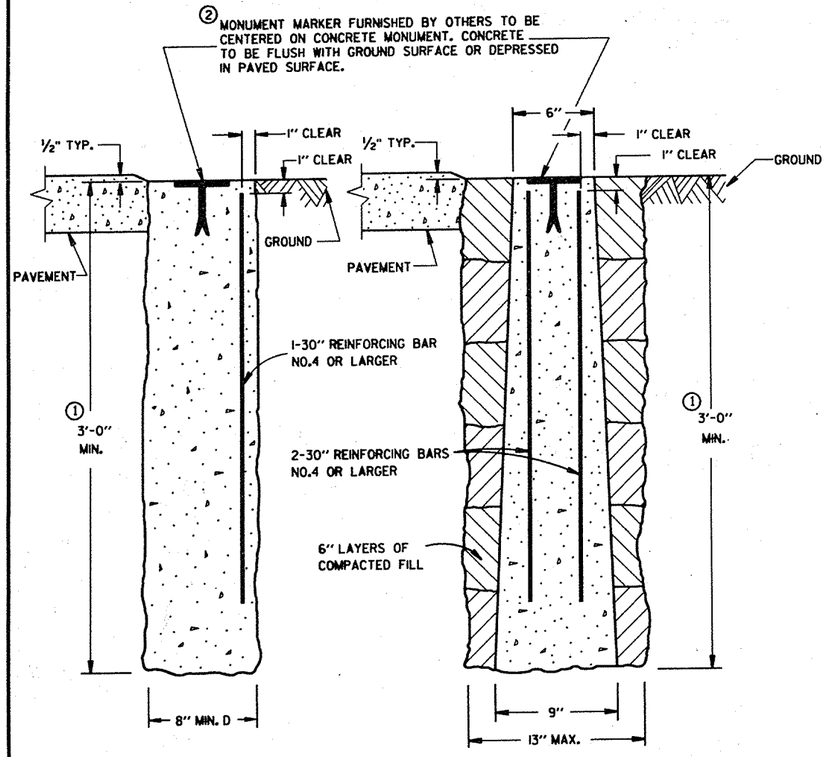
TYPICAL PAVEMENT MARKING FOR RURAL INTERSECTIONS

NOTE: WHEN APPLICABLE, INCLUDE SDD 15C8-4b WITH THIS DRAWING IN PLANS.

PAVEMENT MARKING (MAINLINE & INTERSECTIONS)
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 3/17/92 DATE — Peter T. Rusen STATE TRAFFIC ENGINEER FOR HWYS — FHWA

S.D.D. 15 C 8-4a

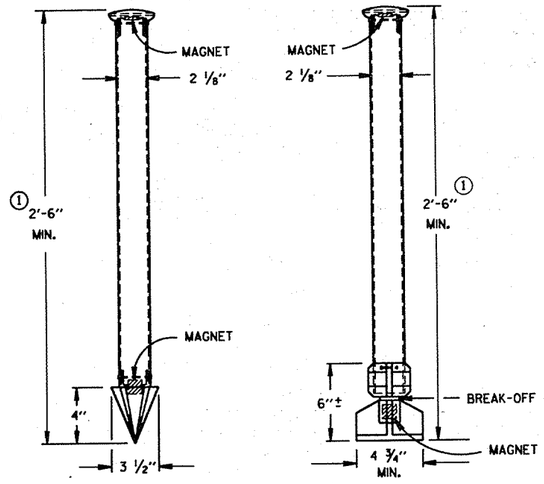
S.D.D. 15 C 8-4a



CAST-IN-PLACE PRECAST

CONCRETE MONUMENTS

TYPE A



TYPE C TYPE D

DRIVE-IN MONUMENT BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)

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.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

INSTALLED METAL MONUMENTS MUST BE EASILY DETECTED WITH A DIP NEEDLE. INSERT PERMANENT MAGNETS SHALL BE ATTACHED NEAR THE TOP AND BOTTOM OF THOSE MONUMENTS CONSTRUCTED OF A METAL ALLOY WHICH IS NOT ATTRACTIVE TO A DIP NEEDLE.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

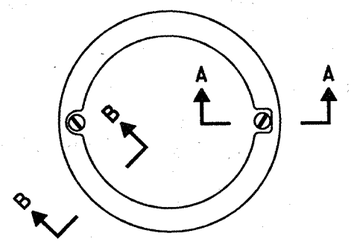
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

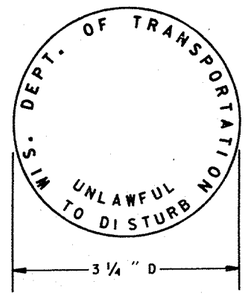
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.

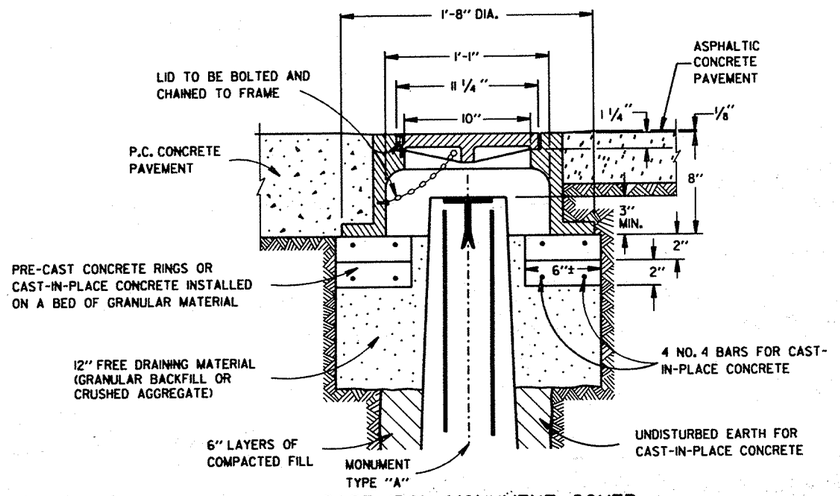


TOP VIEW



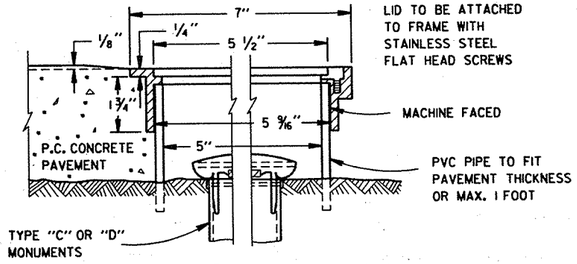
② WIS DOT MONUMENT MARKER LOGO

FOR TYPES "A", "C" & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT - 95 LBS.)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)

(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 3/31/92 DATE — STATE DESIGN ENGINEER FOR HWYS

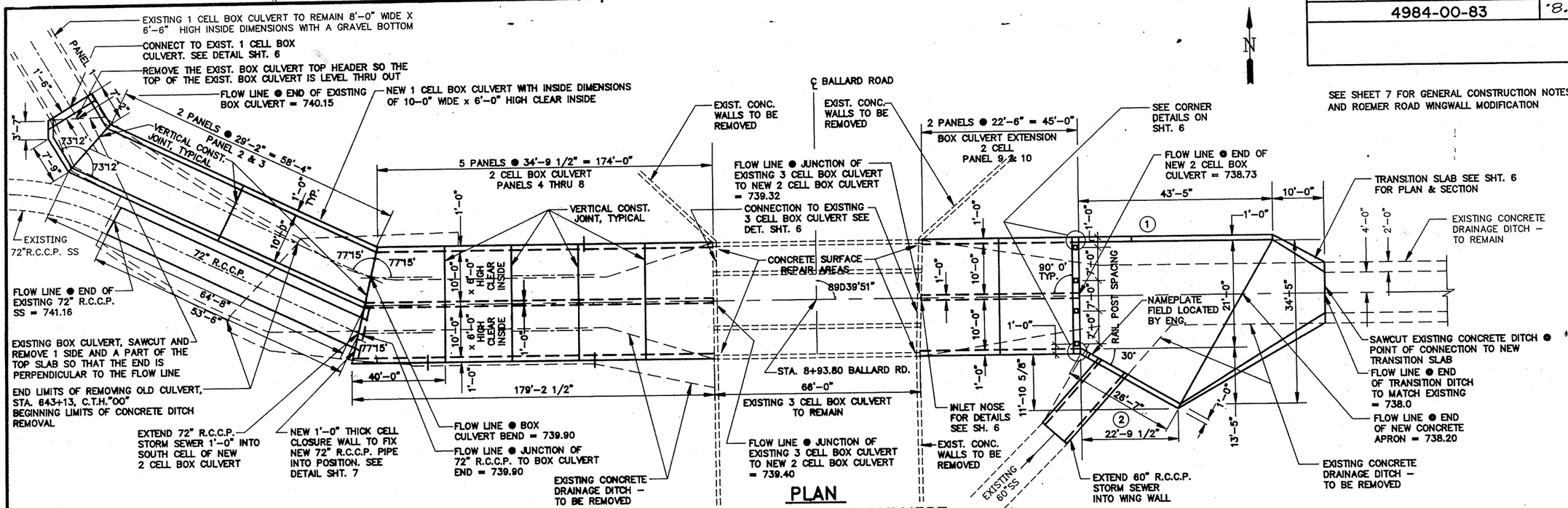
FHWA

S.D.D. 16 A 1-5

S.D.D. 16 A 1-5

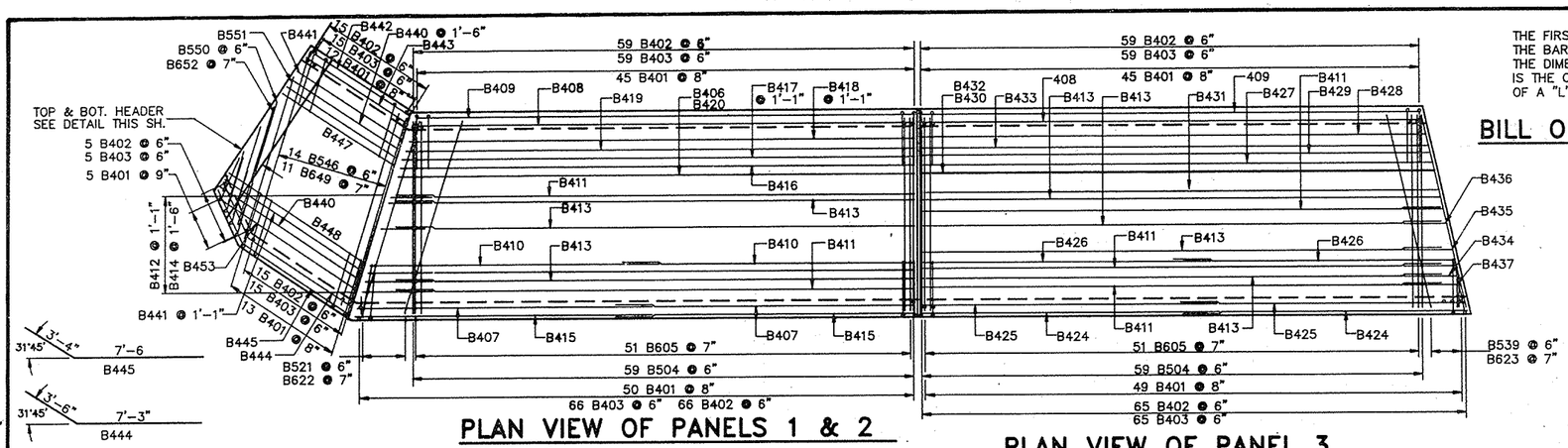
As Built

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	8.0


EXISTING 1 CELL BOX CULVERT TO REMAIN 8'-0" WIDE X 6'-6" HIGH INSIDE DIMENSIONS WITH A GRAVEL BOTTOM
CONNECT TO EXIST. 1 CELL BOX CULVERT. SEE DETAIL SHT. 6
REMOVE THE EXIST. BOX CULVERT TOP HEADER SO THE TOP OF THE EXIST. BOX CULVERT IS LEVEL THRU OUT
FLOW LINE ● END OF EXISTING BOX CULVERT = 740.15
NEW 1 CELL BOX CULVERT WITH INSIDE DIMENSIONS OF 10'-0" WIDE x 6'-0" HIGH CLEAR INSIDE
PANEL 1
2 PANELS ● 29'-2" = 58'-4"
VERTICAL CONST. JOINT, TYPICAL
PANEL 2 & 3
7312'
7312'
3'-7"
7'-9"
1'-6"
7'-3"
1'-0" TYP.
10'-10"
EXISTING 72"R.C.C.P. SS
72" R.C.C.P.
64'-8"
53'-6"
FLOW LINE ● END OF EXISTING 72" R.C.C.P. SS = 741.16
EXISTING BOX CULVERT, SAWCUT AND REMOVE 1 SIDE AND A PART OF THE TOP SLAB SO THAT THE END IS PERPENDICULAR TO THE FLOW LINE
END LIMITS OF REMOVING OLD CULVERT, STA. 643+13, C.T.H."00" BEGINNING LIMITS OF CONCRETE DITCH REMOVAL
EXTEND 72" R.C.C.P. STORM SEWER 1'-0" INTO SOUTH CELL OF NEW 2 CELL BOX CULVERT
NEW 1'-0" THICK CELL CLOSURE WALL TO FIX NEW 72" R.C.C.P. PIPE INTO POSITION. SEE DETAIL SHT. 7
77'15'
77'15'
77'15'
5 PANELS ● 34'-9 1/2" = 174'-0"
2 CELL BOX CULVERT PANELS 4 THRU 8
1'-0"
10'-0" x 6'-0" HIGH CLEAR INSIDE
10'-0" x 6'-0" HIGH CLEAR INSIDE
1'-0"
1'-0"
VERTICAL CONST. JOINT, TYPICAL
40'-0"
179'-2 1/2"
FLOW LINE ● BOX CULVERT BEND = 739.90
FLOW LINE ● JUNCTION OF 72" R.C.C.P. TO BOX CULVERT END = 739.90
EXISTING CONCRETE DRAINAGE DITCH — TO BE REMOVED
℄ BALLARD ROAD
EXIST. CONC. WALLS TO BE REMOVED
EXIST. CONC. WALLS TO BE REMOVED
FLOW LINE ● JUNCTION OF EXISTING 3 CELL BOX CULVERT TO NEW 2 CELL BOX CULVERT = 739.32
CONNECTION TO EXISTING 3 CELL BOX CULVERT SEE DET. SHT. 6
CONCRETE SURFACE REPAIR AREAS
89D39'51"
STA. 8+93.80 BALLARD RD.
66'-0"
EXISTING 3 CELL BOX CULVERT TO REMAIN
FLOW LINE ● JUNCTION OF EXISTING 3 CELL BOX CULVERT TO NEW 2 CELL BOX CULVERT = 739.40
EXIST. CONC. WALLS TO BE REMOVED
2 PANELS ● 22'-6" = 45'-0"
BOX CULVERT EXTENSION 2 CELL
PANEL 9 & 10
SEE CORNER DETAILS ON SHT. 6
FLOW LINE ● END OF NEW 2 CELL BOX CULVERT = 738.73
43'-5"
10'-0"
1'-0"
1'-0"
1

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	8.1

THE FIRST DIGIT OF THE MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR

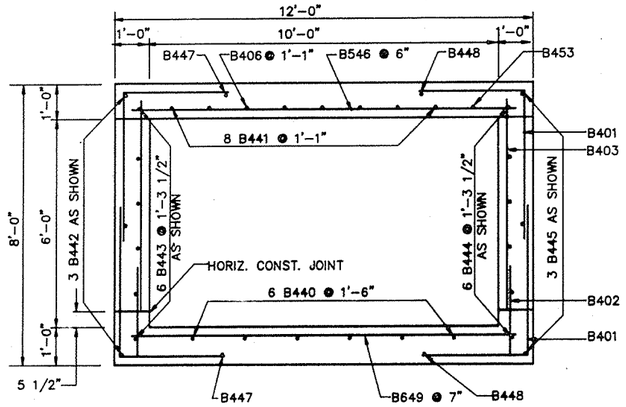


PLAN VIEW OF PANELS 1 & 2

SCALE 1/4" = 1'-0"

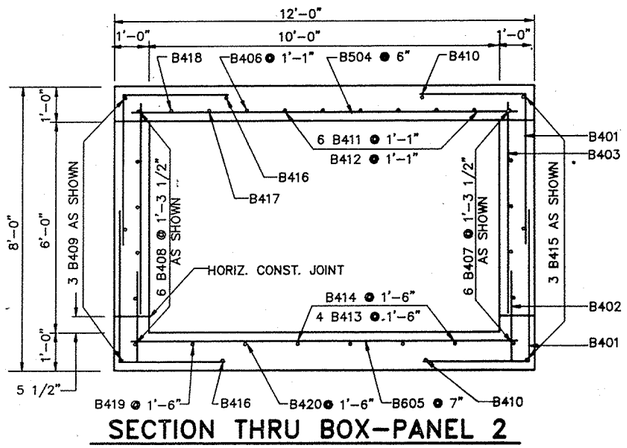
PLAN VIEW OF PANEL 3

SCALE 1/4" = 1'-0"



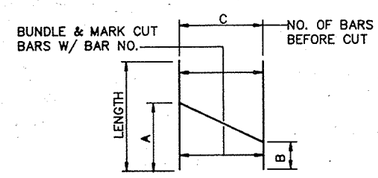
SECTION THRU BOX-PANEL 1

SCALE 1/2" = 1'-0"



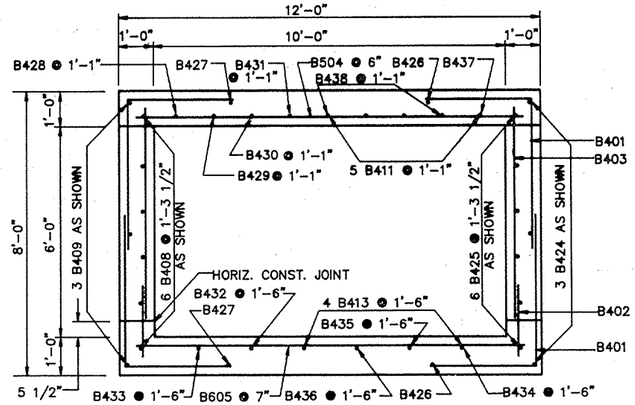
SECTION THRU BOX-PANEL 2

SCALE 1/2" = 1'-0"



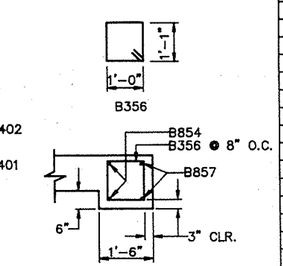
MARK	A	B	C	SETS REQ'D.
B412	3'-8"	3'-0"	3	1
B414	3'-6"	3'-0"	2	1
B438	2'-8"	2'-5"	2	1
B440	9'-9"	9'-3"	3	1
B441	9'-8"	8'-8"	4	1
B550	7'-6"	5'-4"	2	1
B652	9'-9"	4'-7"	2	1

CUTTING DIAGRAM



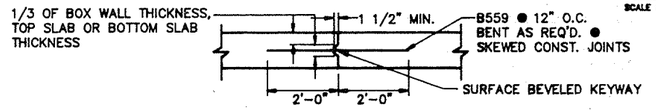
SECTION THRU BOX-PANEL 3

SCALE 1/2" = 1'-0"



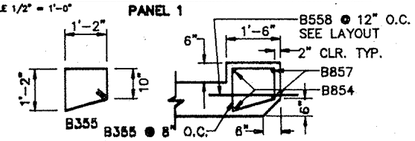
SECTION THRU BOT. HEADER

SCALE 1/2" = 1'-0"



VERTICAL CONSTRUCTION JOINT

SCALE 1/2" = 1'-0"



SECTION THRU TOP HEADER

SCALE 1/2" = 1'-0" PANEL 1

BILL OF BARS

MARK	NO.	LENGTH	BENT	CUT	LOCATION
B401	428	8'-7"	3'-0"	NO	CORNERS
B402	276	2'-6"	NO	NO	BOT. SLAB DOWELS
B403	276	6'-0"	NO	NO	OUTSIDE WALL VERT.
B504	118	11'-0"	NO	NO	TOP SLAB
B605	102	11'-0"	NO	NO	BOT. SLAB
B406	1	30'-0"	NO	NO	TOP SLAB
B407	12	16'-11"	NO	NO	OUTSIDE WALL LONGIT.
B408	12	29'-0"	NO	NO	OUTSIDE WALL LONGIT.
B409	6	28'-11"	NO	NO	OUTSIDE WALL LONGIT.
B410	4	16'-7"	NO	NO	TOP & BOT. SLAB
B411	11	30'-0"	NO	NO	TOP SLAB
B412	3	5'-8"	NO	YES	TOP SLAB
B413	8	30'-0"	NO	NO	BOT.SLAB
B414	2	5'-6"	NO	YES	BOT. SLAB
B415	6	17'-0"	NO	NO	OUTSIDE WALL LONGIT.
B416	2	29'-9"	NO	NO	TOP & BOT. SLAB
B417	1	29'-8"	NO	NO	TOP SLAB
B418	1	29'-4"	NO	NO	TOP SLAB
B419	1	29'-4"	NO	NO	BOT. SLAB
B420	1	29'-8"	NO	NO	BOT. SLAB
B521	6	11'-6"	NO	NO	TOP SLAB
B622	6	11'-6"	NO	NO	BOT. SLAB
B623	5	11'-4"	NO	NO	BOT. SLAB
B424	6	16'-7"	NO	NO	OUTSIDE WALL LONGIT.
B425	12	16'-6"	NO	NO	OUTSIDE WALL LONGIT.
B426	4	16'-3"	NO	NO	TOP & BOT. SLAB
B427	2	29'-7"	NO	NO	TOP & BOT. SLAB
B428	1	29'-3"	NO	NO	TOP SLAB
B429	1	29'-6"	NO	NO	TOP SLAB
B430	1	29'-9"	NO	NO	TOP SLAB
B431	1	30'-0"	NO	NO	TOP SLAB
B432	1	29'-8"	NO	NO	BOT. SLAB
B433	1	29'-4"	NO	NO	BOT. SLAB
B434	1	2'-10"	NO	NO	BOT. SLAB
B435	1	2'-6"	NO	NO	BOT. SLAB
B436	1	2'-2"	NO	NO	BOT. SLAB
B437	1	2'-11"	NO	NO	TOP SLAB
B438	2	4'-7"	NO	YES	TOP SLAB
B539	5	11'-4"	NO	NO	TOP SLAB
B440	3	18'-3"	NO	YES	BOT. SLAB
B441	4	17'-0"	NO	YES	TOP SLAB
B442	3	6'-10"	NO	NO	OUTSIDE WALL LONGIT.
B443	6	7'-0"	NO	NO	OUTSIDE WALL LONGIT.
B444	6	10'-8"	YES	NO	OUTSIDE WALL LONGIT.
B445	3	11'-0"	YES	NO	OUTSIDE WALL LONGIT.
B546	14	11'-6"	NO	NO	TOP SLAB
B447	2	7'-9"	NO	NO	TOP & BOT. SLAB
B448	2	9'-6"	NO	NO	TOP & BOT. SLAB
B649	11	11'-6"	NO	NO	BOT. SLAB
B550	2	8'-6"	NO	YES	TOP SLAB
B551	1	9'-9"	NO	NO	TOP SLAB
B652	2	11'-9"	NO	YES	BOT. SLAB
B453	1	9'-4"	NO	NO	TOP SLAB
B854	4	10'-6"	NO	NO	HEADERS
B355	16	5'-0"	YES	NO	HEADERS
B356	16	4'-10"	YES	NO	HEADERS
B857	4	10'-0"	NO	NO	HEADERS
B558	36	2'-6"	NO	NO	VERTICAL CONST. JOINT
B559	72	4'-0"	NO	NO	VERTICAL CONST. JOINT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-44-715

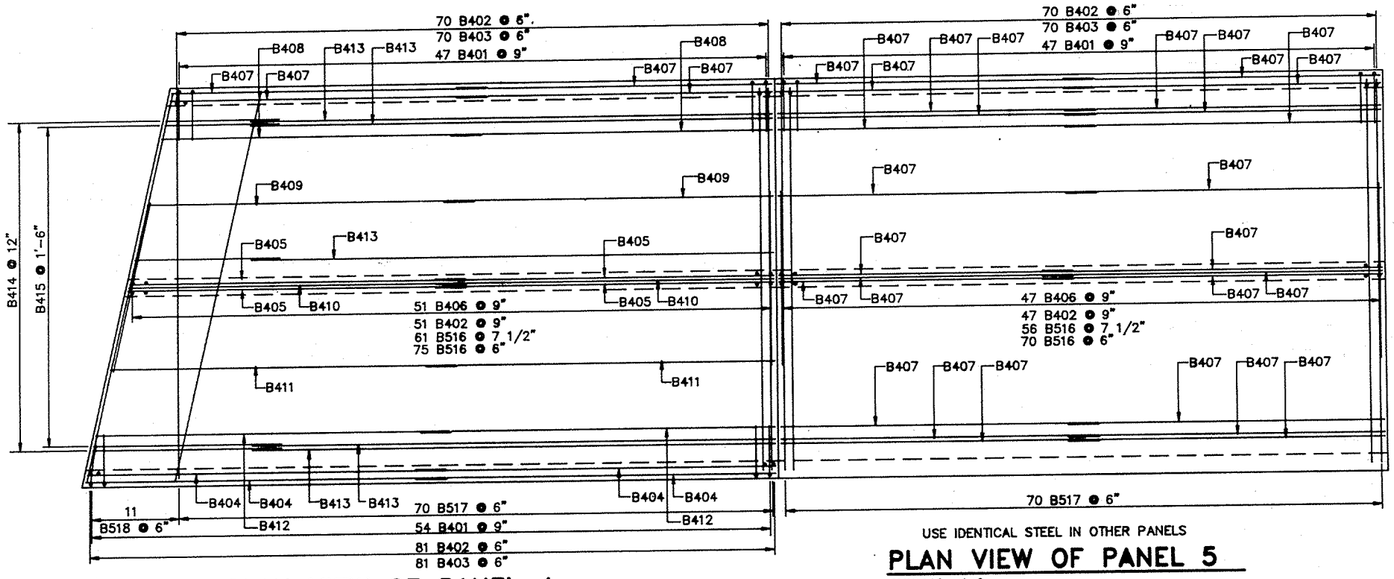
CONST SPEC WI 1989	DRAWN BY RJT	PLN CHK MRS

DETAILS
PANELS 1, 2, & 3

SHEET 2 OF 9

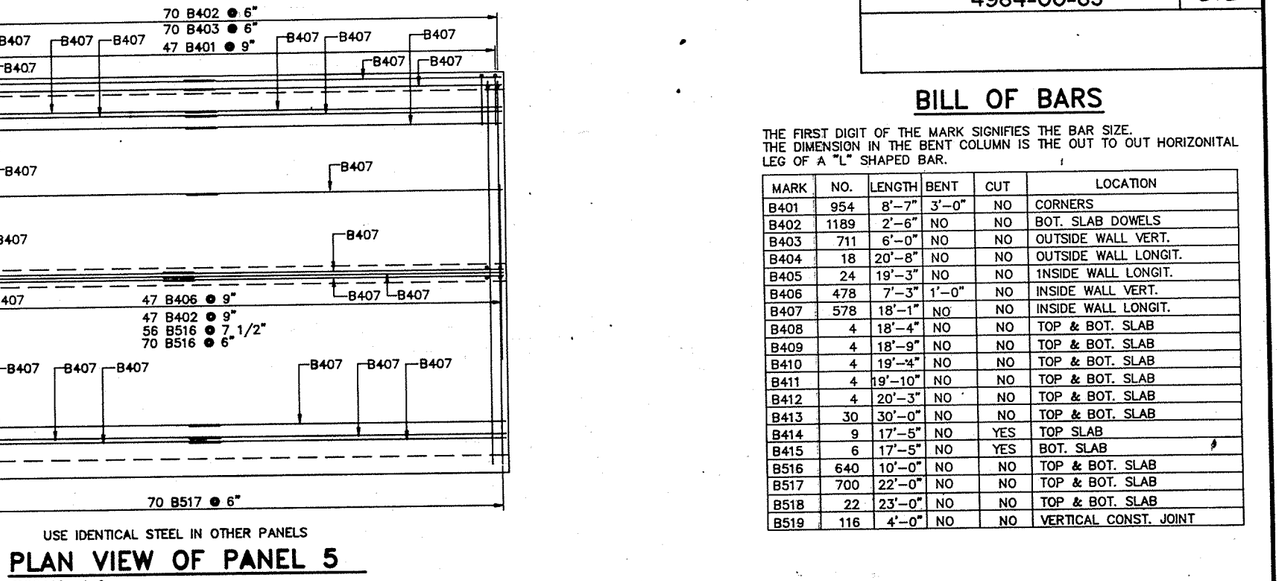
X83942

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	8.2



PLAN VIEW OF PANEL 4

SCALE 1/4" = 1'-0"



USE IDENTICAL STEEL IN OTHER PANELS

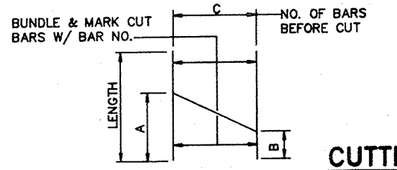
PLAN VIEW OF PANEL 5

SCALE 1/4" = 1'-0"

BILL OF BARS

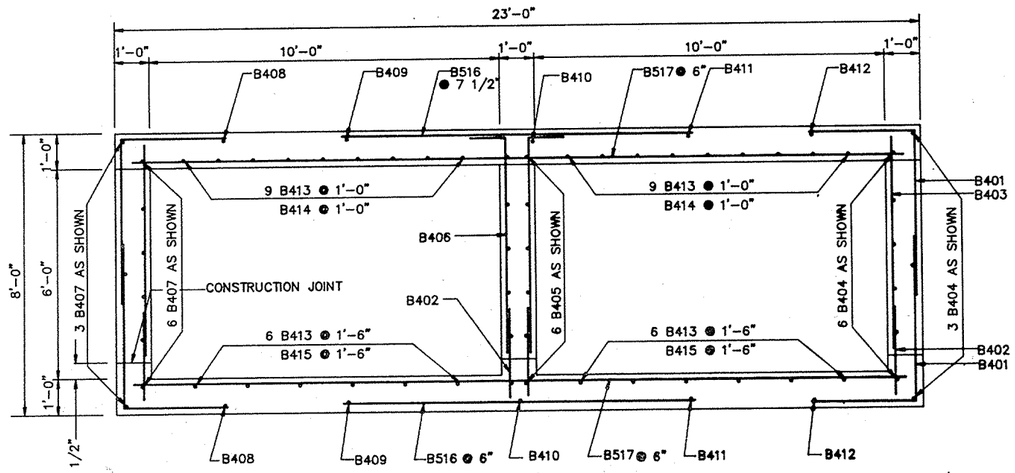
THE FIRST DIGIT OF THE MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR.

MARK	NO.	LENGTH	BENT	CUT	LOCATION
B401	954	8'-7"	3'-0"	NO	CORNERS
B402	1189	2'-6"	NO	NO	BOT. SLAB DOWELS
B403	711	6'-0"	NO	NO	OUTSIDE WALL VERT.
B404	18	20'-8"	NO	NO	OUTSIDE WALL LONGIT.
B405	24	19'-3"	NO	NO	1NSIDE WALL LONGIT.
B406	478	7'-3"	1'-0"	NO	INSIDE WALL VERT.
B407	578	18'-1"	NO	NO	INSIDE WALL LONGIT.
B408	4	18'-4"	NO	NO	TOP & BOT. SLAB
B409	4	18'-9"	NO	NO	TOP & BOT. SLAB
B410	4	19'-4"	NO	NO	TOP & BOT. SLAB
B411	4	19'-10"	NO	NO	TOP & BOT. SLAB
B412	4	20'-3"	NO	NO	TOP & BOT. SLAB
B413	30	30'-0"	NO	NO	TOP & BOT. SLAB
B414	9	17'-5"	NO	YES	TOP SLAB
B415	6	17'-5"	NO	YES	BOT. SLAB
B516	640	10'-0"	NO	NO	TOP & BOT. SLAB
B517	700	22'-0"	NO	NO	TOP & BOT. SLAB
B518	22	23'-0"	NO	NO	TOP & BOT. SLAB
B519	116	4'-0"	NO	NO	VERTICAL CONST. JOINT



MARK	A	B	C	SETS REQ'D.
B414	10'-11"	9'-0"	9	1
B415	10'-10"	9'-2"	6	1

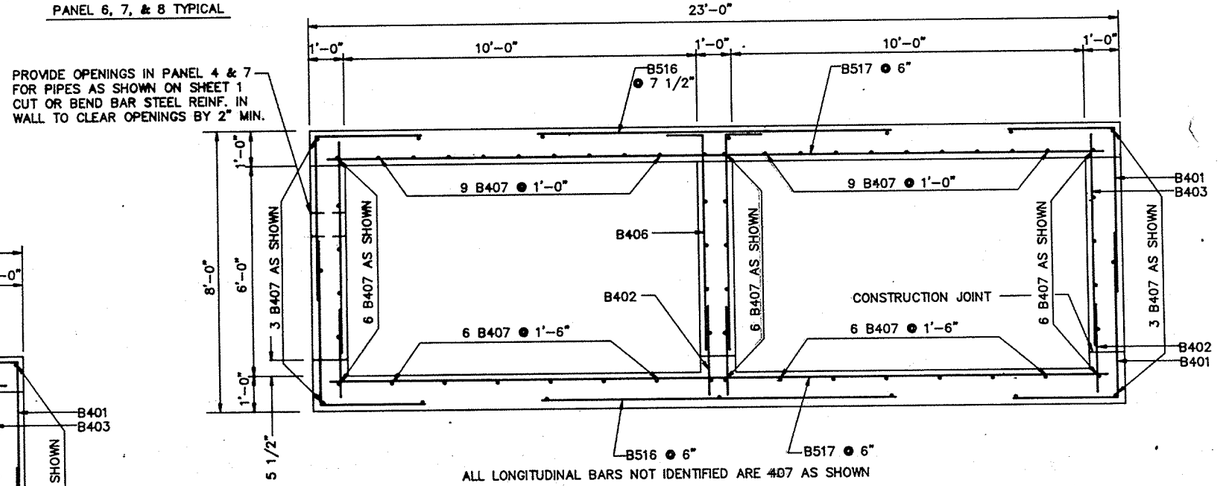
CUTTING DIAGRAM



TYPICAL SECTION THRU BOX-PANEL 4

SCALE 1/2" = 1'-0"

PANEL 6, 7, & 8 TYPICAL

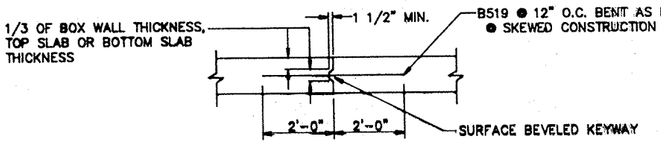


ALL LONGITUDINAL BARS NOT IDENTIFIED ARE 407 AS SHOWN

TYPICAL SECTION THRU BOX-PANEL 5

SCALE 1/2" = 1'-0"

PANEL 6, 7, & 8 TYPICAL



VERTICAL CONSTRUCTION JOINT

SCALE 1/2" = 1'-0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-44-715 EXTENSION

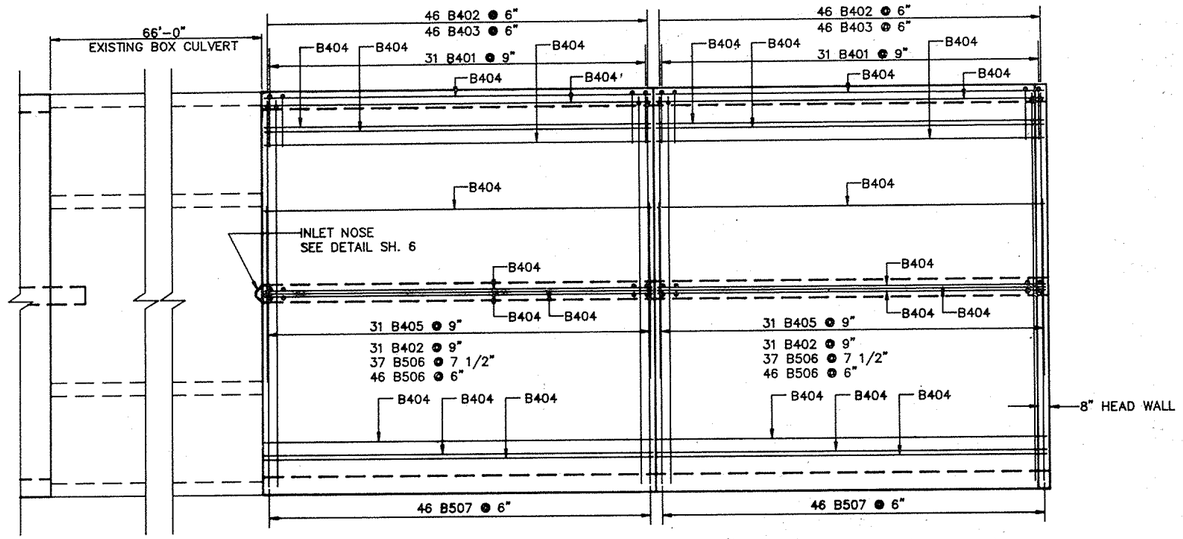
CONST SPEC WI 1989	DRAWN BY RJT	PLN CHK MRS

DETAILS
PANELS 4 THRU 8

SHEET 3 OF 9

X83942

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	8.3



PLAN VIEW OF PANEL 9

SCALE 1/4" = 1'-0"

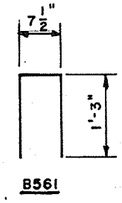
PLAN VIEW OF PANEL 10

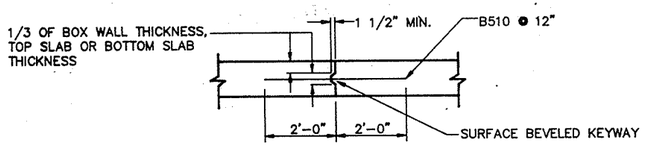
SCALE 1/4" = 1'-0"

BILL OF BARS

THE FIRST DIGIT OF THE MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR

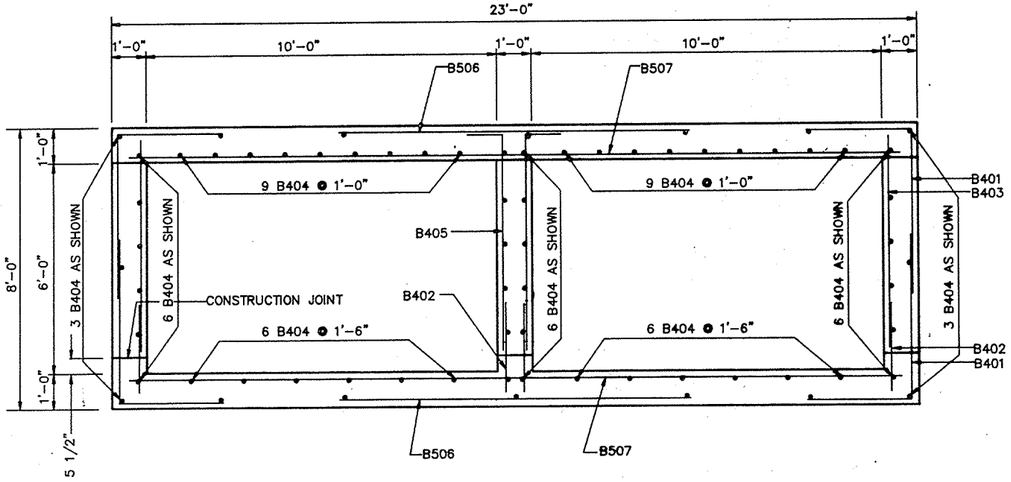
MARK	NO.	LENGTH	BENT	CUT	LOCATION
B401	248	8'-7"	3'-0"	NO	CORNERS
B402	308	2'-6"	NO	NO	BOT. SLAB DOWELS
B403	184	6'-0"	NO	NO	OUTSIDE WALL VERT.
B404	140	22'-2"	NO	NO	LONGIT. BARS
B405	124	7'-3"	1'-0"	NO	INSIDE WALL LONGIT.
B506	166	10'-0"	NO	NO	TOP & BOT. SLAB
B507	184	22'-0"	NO	NO	TOP & BOT. SLAB
B408	4	22'-8"	NO	NO	HEADER WALL
B409	35	4'-2"	1'-0"	NO	HEADER WALL
B510	116	4'-0"	NO	NO	VERTICAL CONST. JOINT
B560	8	4'-0"	NO	NO	HEADER WALL AT RAIL POSTS
B561	8	3'-0"	YES	NO	HEADER WALL AT RAIL POSTS





VERTICAL CONSTRUCTION JOINT

SCALE 1/2" = 1'-0"

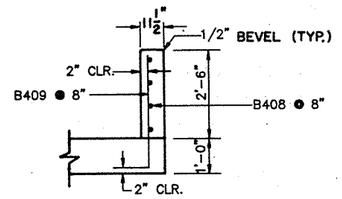


ALL LONGITUDINAL BARS NOT IDENTIFIED ARE 404 AS SHOWN

TYPICAL SECTION THRU BOX- PANEL

SCALE 1/2" = 1'-0"

USE IDENTICAL STEEL IN OTHER PANEL



SECTION THRU HEAD WALL

SCALE 1/2" = 1'-0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-44-715 EXTENSION

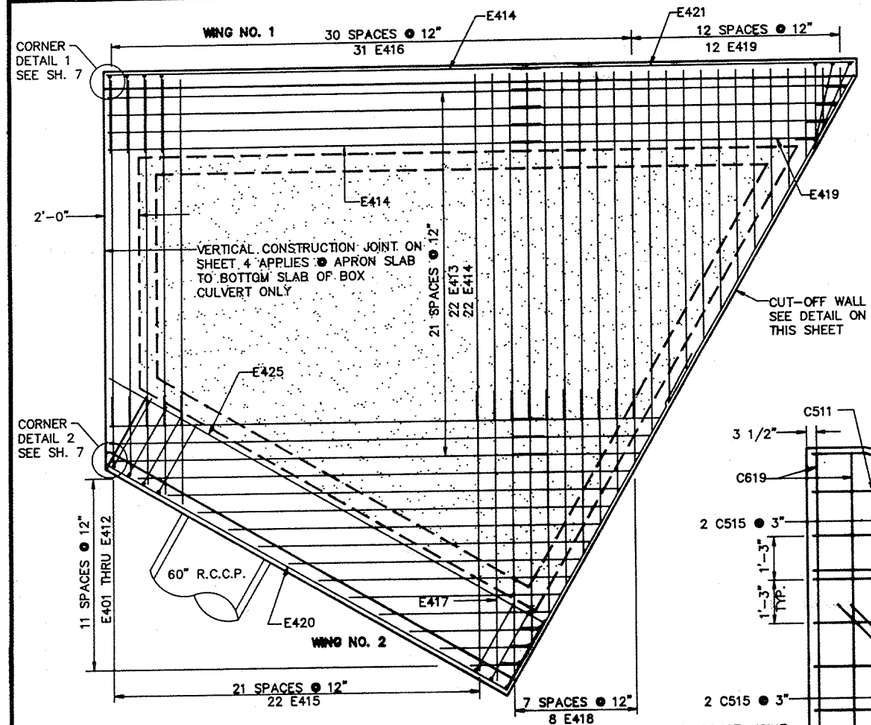
CONST SPEC WI 1989 | DRAWN BY RWG | PLN CHK MRS

DETAILS
PANELS 9 & 10

SHEET 4 OF 9

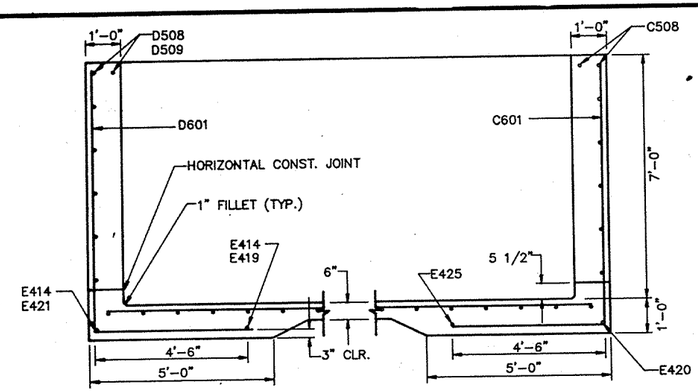
XB3942

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	8.4



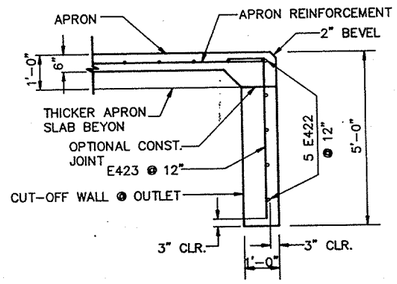
PLAN VIEW OF APRON

SCALE 1/4" = 1'-0"



SECTION THRU WINGS @ RIGHT ANGLE TO WINGS

SCALE 1/2" = 1'-0".

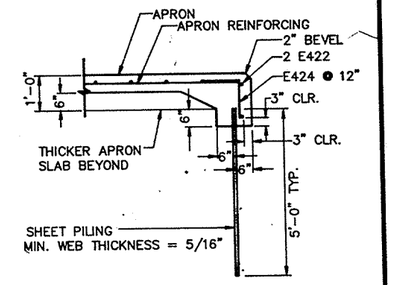


CUT-OFF WALL

SCALE 1/2" = 1'-0"

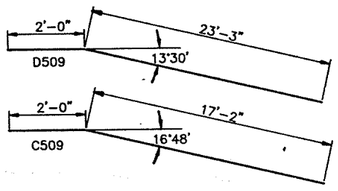
NOTES:

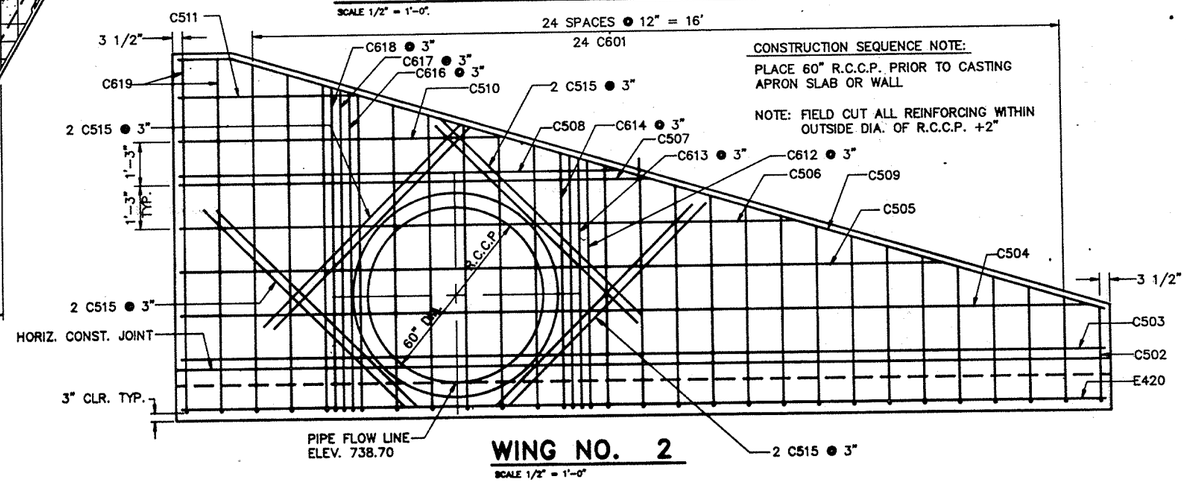
1. THE CONC. IN CUT-OFF WALLS MAY BE PLACED UNDER WATER IF THE EXCAVATION CANNOT BE DEWATERED
2. PAYMENT IS BASED ON CONC. CUT-OFF WALL



ALTERNATE CUT-OFF WALL

SCALE 1/2" = 1'-0"





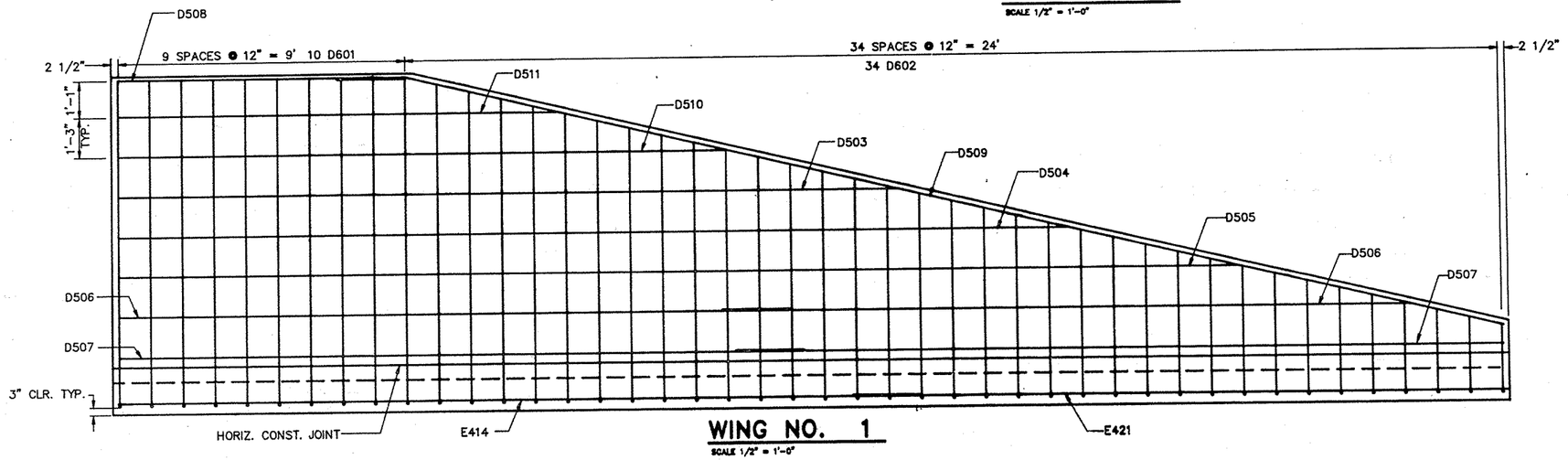
CONSTRUCTION SEQUENCE NOTE:

PLACE 60" R.C.C.P. PRIOR TO CASTING APRON SLAB OR WALL

NOTE: FIELD CUT ALL REINFORCING WITHIN OUTSIDE DIA. OF R.C.C.P. +2"

WING NO. 2

SCALE 1/2" = 1'-0"



WING NO. 1

SCALE 1/2" = 1'-0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-44-715 EXTENSION

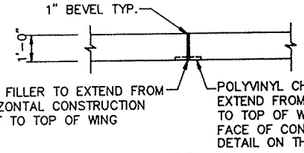
CONST SPEC WI 1989 | DRAWN BY RJT | PLN CHK MRS

DETAILS
APRON & WING WALLS

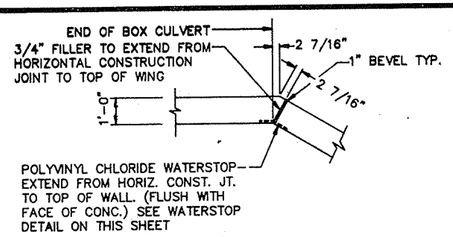
SHEET 5 OF 9

X83942

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	8.5



CORNER 1

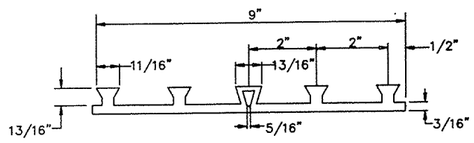


CORNER 2

NOTE:
DO NOT RUN ANY REINFORCEMENT STEEL THRU JOINT FILLER. FILLER SHALL CONFORM AASHTO DESIGNATION M153 OR M213

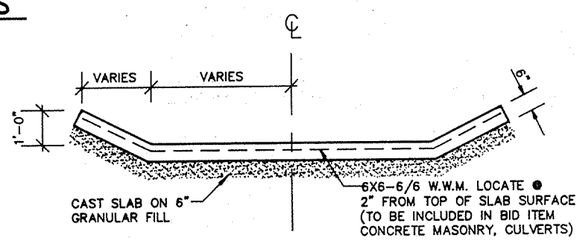
CORNER DETAILS

SCALE 1/2" = 1'-0"



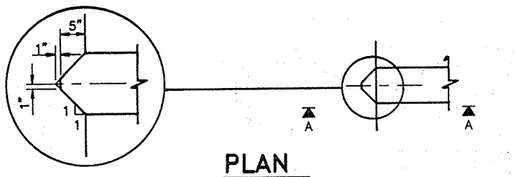
POLYVINYL CHLORIDE WATERSTOP

SCALE 1/2" = 1'-0"

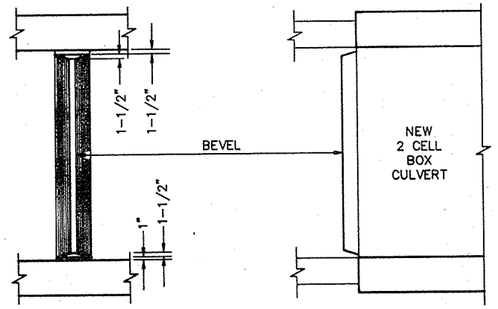


DITCH TRANSITION SECTION

SCALE 1/2" = 1'-0"



PLAN

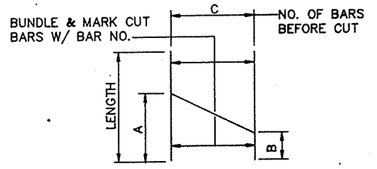


FRONT ELEVATION

SECTION A-A

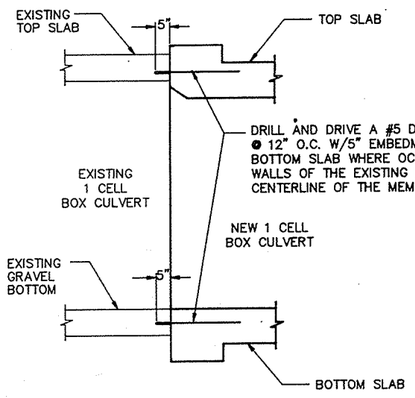
BILL OF BARS

MARK	NO.	LENGTH	BENT	CUT	LOCATION
C601	8	21'-10"	4'-6"	YES	WING 2 VERT.
C602	1	7'-1"	NO	NO	WING 2 VERT.
C503	1	26'-3"	NO	NO	WING 2 HORIZ.
C504	1	25'-10"	NO	NO	WING 2 HORIZ.
C505	1	21'-8"	NO	NO	WING 2 HORIZ.
C506	1	17'-6"	NO	NO	WING 2 HORIZ.
C507	1	13'-5"	NO	NO	WING 2 HORIZ.
C508	2	12'-7"	NO	NO	WING 2 HORIZ.
C509	2	27'-4"	1'-6"	NO	WING 2 HORIZ.
C510	1	9'-3"	NO	NO	WING 2 HORIZ.
C511	1	5'-1"	NO	NO	WING 2 HORIZ.
C612	1	11'-5"	4'-6"	NO	WING 2 VERT.
C613	1	11'-6"	4'-6"	NO	WING 2 VERT.
C614	1	11'-8"	4'-6"	NO	WING 2 VERT.
C615	8	8'-0"	NO	NO	WING 2 DIAG.
C616	1	13'-6"	4'-6"	NO	WING 2 VERT.
C617	1	13'-7"	4'-6"	NO	WING 2 VERT.
C618	1	13'-8"	4'-6"	NO	WING 2 VERT.
C619	2	14'-6"	4'-6"	NO	WING 2 VERT.
D601	10	14'-6"	4'-6"	NO	WING 1 VERT.
D602	17	20'-9"	4'-6"	NO	WING 1 VERT.
D503	1	24'-6"	NO	NO	WING 1 HORIZ.
D504	1	29'-10"	NO	NO	WING 1 HORIZ.
D505	1	35'-1"	NO	NO	WING 1 HORIZ.
D506	2	21'-3"	NO	NO	WING 1 HORIZ.
D507	2	22'-8"	NO	NO	WING 1 HORIZ.
D508	2	9'-0"	NO	NO	WING 1 HORIZ.
D509	2	37'-0"	2'-0"	NO	WING 1 HORIZ.
D510	1	19'-0"	NO	NO	WING 1 HORIZ.
D511	1	13'-9"	NO	NO	WING 1 HORIZ.
E401	1	2'-10"	NO	NO	APRON
E402	1	5'-2"	NO	NO	APRON
E403	1	7'-6"	NO	NO	APRON
E404	1	9'-10"	NO	NO	APRON
E405	1	12'-1"	NO	NO	APRON
E406	1	14'-5"	NO	NO	APRON
E407	1	16'-9"	NO	NO	APRON
E408	1	19'-0"	NO	NO	APRON
E409	1	21'-4"	NO	NO	APRON
E410	1	23'-8"	NO	NO	APRON
E411	1	26'-0"	NO	NO	APRON
E412	1	28'-3"	NO	NO	APRON
E413	11	26'-5"	NO	NO	APRON
E414	24	25'-0"	NO	NO	APRON
E415	11	19'-9"	NO	NO	APRON
E416	31	20'-0"	NO	NO	APRON
E417	1	14'-10"	NO	NO	APRON
E418	4	20'-1"	NO	YES	APRON
E419	6	22'-3"	NO	YES	APRON
E420	1	26'-1"	NO	NO	APRON
E421	1	19'-8"	NO	NO	APRON
E422	10	21'-6"	NO	NO	APRON & CUTOFF WALL
E423	33	5'-6"	1'-0"	NO	APRON & CUTOFF WALL
E424	33	2'-0"	1'-0"	NO	APRON & ALT. CUTOFF WALL
E425	1	28'-9"	NO	NO	APRON



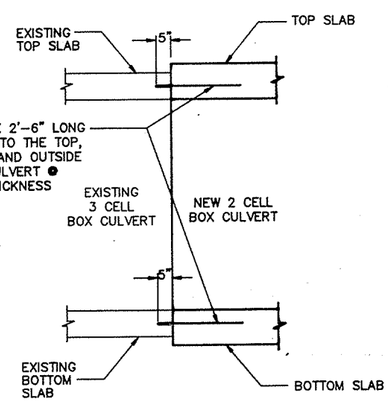
MARK	A	B	C	SETS REQ'D.
C501	14'-5"	11'-1"	12	1
D502	14'-4"	10'-6"	17	1
E413	19'-4"	13'-6"	11	1
E415	15'-11"	10'-2"	11	1
E418	16'-2"	10'-11"	4	1
E419	20'-9"	12'-0"	6	1

CUTTING DIAGRAM



CONNECTION TO EXISTING 1 CELL CULVERT

SCALE 1/2" = 1'-0"

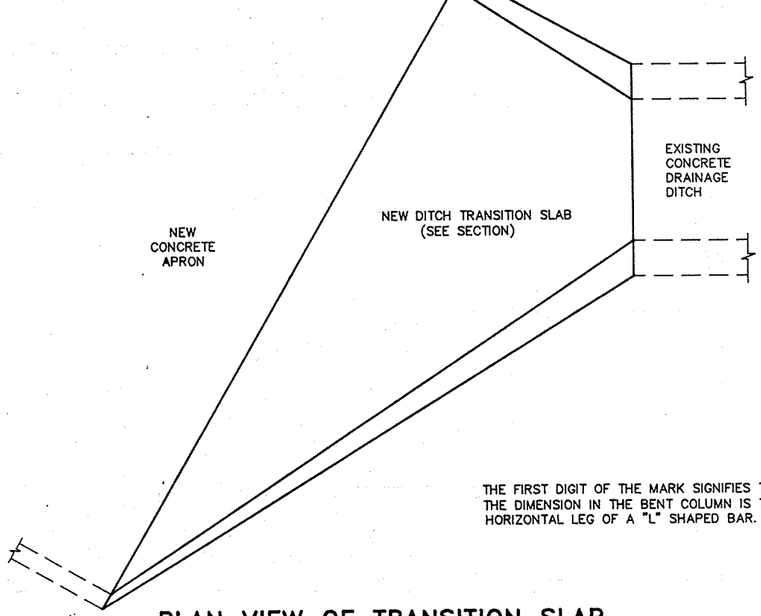


CONNECTION TO EXISTING 3 CELL CULVERT

SCALE 1/2" = 1'-0"

INLET NOSE DETAILS

SCALE 1/2" = 1'-0"



PLAN VIEW OF TRANSITION SLAB

SCALE 1/4" = 1'-0"

THE FIRST DIGIT OF THE MARK SIGNIFIES THE BAR SIZE. THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR.

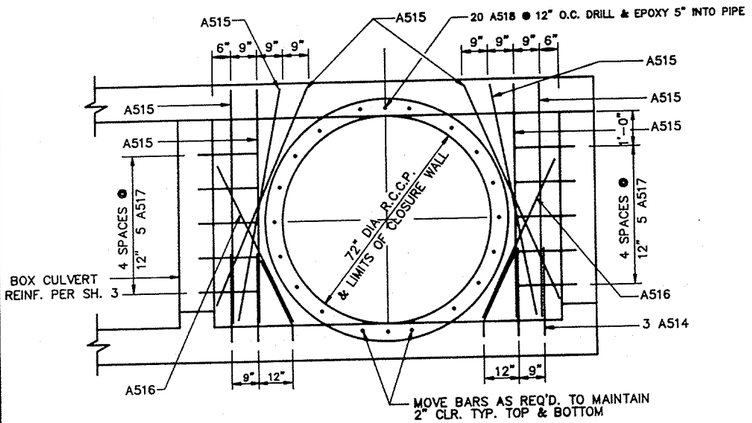
NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE P-44-715 EXTENSION

CONST SPEC WI 1989	DRAWN BY RWG	PLN CHK MRS
DETAILS		SHEET 6 OF 9
		X83942

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	8.6



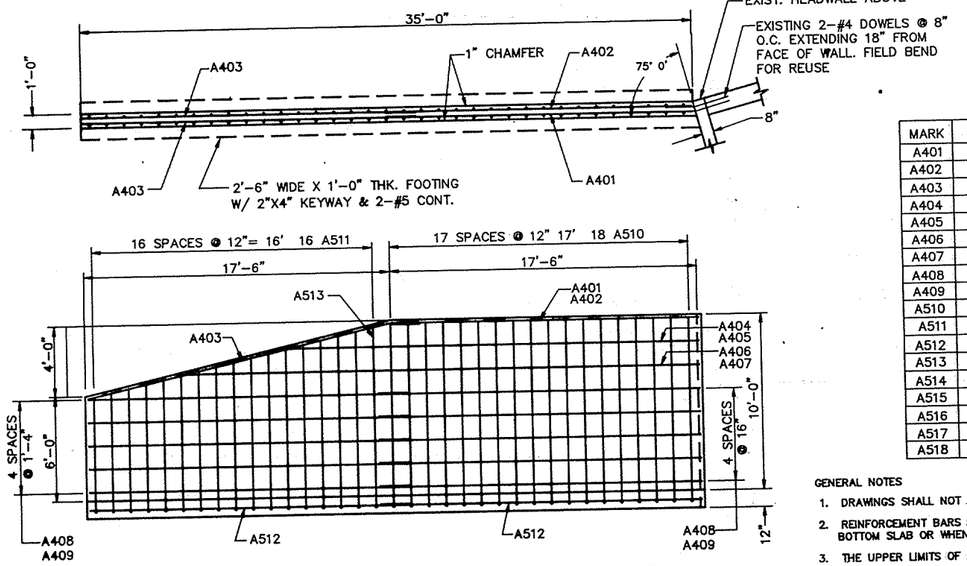
CELL CLOSURE WALL DETAIL

SCALE 1/2" = 1'-0"

NOTES:
1. ALL DOWELS TO BE EMBEDED 5" INTO CONC. FIELD BEND SOME DOWELS AS SHOWN
2. ALL REINFORCING IS LOCATED @ CENTER OF CELL CLOSURE WALL

CONSTRUCTION SEQUENCE OF CELL CLOSURE

1. SET 72" R.C.C.P. INTO FINAL POSITION
2. CAST BOTTOM SLAB OF BOX CULVERT
3. CAST BOTH WALLS OF BOX CULVERT
4. DRILL AND DRIVE #5 DOWELS INTO WALLS AND BOTTOM SLAB AS SHOWN. (EXCEPT @ TOP SLAB)
5. PLACE AND SECURE REMAINING REINFORCING FOR CELL CLOSURE WALL.
6. CAST CELL CLOSURE WALL.
7. CAST TOP SLAB OF BOX CULVERT.



ROEMER ROAD WINGWALL MODIFICATION

SCALE 1/4" = 1'-0"

CONSTRUCTION SEQUENCE OF ROEMER ROAD WINGWALL

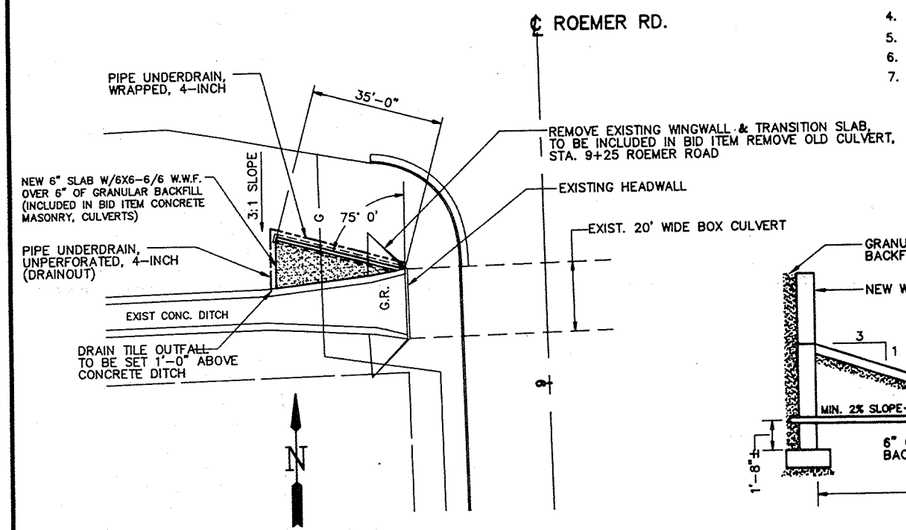
1. PERFORM REQUIRED EXCAVATION AND REMOVE CONCRETE TRANSITION SLAB BETWEEN EXISTING WINGWALL.
2. REMOVE EXISTING CONC. MASONRY AND REINFORCEMENT IN EXISTING 15'-0" LONG X 10'-0" HIGH X 10" THICK WINGWALL, 1'-6" WIDE X 8" THK. FOOTING, AND SAWCUT AND REMOVE A MINIMUM AMOUNT OF CONCRETE DRAINAGE DITCH AS REQUIRED.
3. CONSTRUCT NEW WINGWALL AT THE SAME ELEVATIONS AS THAT EXISTING WINGWALL WAS AT.
4. INSTALL NEW 4" DIA. PIPE UNDERDRAIN, WRAPPED, BEHIND WINGWALL.
5. BACKFILL WITH GRANULAR BACKFILL
6. INSTALL NEW 4" PIPE UNDERDRAIN, UNPERFORATED, DRAINOUT.
7. CAST NEW 6" THICK TRANSITION SLAB

BILL OF BARS

MARK	NO.	LENGTH	BENT	CUT	LOCATION
A401	1	17'-7"	NO	NO	WING HORIZ.
A402	1	17'-4"	NO	NO	WING HORIZ.
A403	1	19'-4"	NO	NO	WING HORIZ.
A404	1	23'-1"	NO	NO	WING HORIZ.
A405	1	23'-4"	NO	NO	WING HORIZ.
A406	1	27'-11"	NO	NO	WING HORIZ.
A407	1	28'-2"	NO	NO	WING HORIZ.
A408	10	18'-2"	NO	NO	WING HORIZ.
A409	10	18'-5"	NO	NO	WING HORIZ.
A510	36	11'-1"	9"	NO	WING VERT.
A511	16	17'-9"	9"	YES	WING VERT.
A512	4	18'-2"	NO	NO	WING WALL FOOTING
A513	4	11'-0"	9"	NO	WING WALL FOOTING
A514	6	2'-6"	NO	NO	CLOSURE WALL
A515	8	6'-9"	NO	NO	CLOSURE WALL
A516	2	5'-0"	NO	NO	CLOSURE WALL
A517	10	1'-8"	NO	NO	CLOSURE WALL
A518	20	1'-8"	10"	NO	CLOSURE WALL

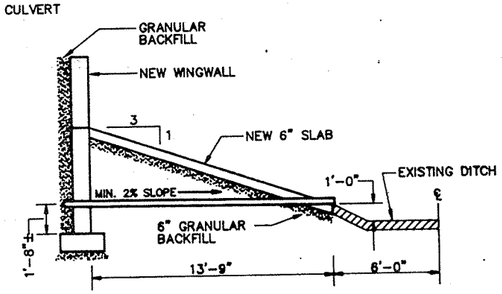
GENERAL NOTES

1. DRAWINGS SHALL NOT BE SCALED.
2. REINFORCEMENT BARS SHALL HAVE 2" CLEAR COVER TYPICAL EXCEPT AT BOTTOM STEEL IN BOTTOM SLAB OR WHEN NOTED OTHERWISE.
3. THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES SHALL BE THE EXISTING GROUNDLINE
4. ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH GRANULAR BACKFILL TO THE ELEVATION AND SECTION EXISTING PRIOR TO EXCAVATION WITHIN THE LENGTH OF THE STRUCTURES.
5. GEOTECHNICAL EXPLORATION PROGRAM AND REPORT BY TWIN CITY TESTING CORPORATION DATED APRIL 16, 1991. REPORT NO. 8500-91-0184.
6. CONTRACTOR SHALL EXCAVATE TO 6" BELOW BOTTOM OF SLAB AS A MINIMUM. ADDITIONAL EXCAVATION MAY BE REQUIRED IN SOME AREAS TO REMOVE ALL EXISTING TOPSOIL AND EXISTING FILL UNDER BOX CULVERT IN EXCAVATED AREAS, THE EXCAVATIONS AND PLACEMENT OF GRANULAR BACKFILL SHOULD EXTEND LATERALLY FROM THE EDGES OF ALL FOUNDATIONS 1'-0" FOR EACH 1'-0" OF EXCAVATION AND GRANULAR BACKFILL PLACED BENEATH THEM.
7. THE LEAN CLAY SOILS PRESENT AT THIS SITE ARE SUSCEPTIBLE TO STRENGTH LOSS WHEN WET AND/OR DISTURBED BY CONSTRUCTION ACTIVITY. SITE DRAINAGE SHOULD BE MAINTAINED DURING CONSTRUCTION TO PREVENT WATER FROM ENTERING AND/OR PONDING IN THE EXCAVATIONS.. CONSTRUCTION TRAFFIC ON THESE SOILS SHOULD ALSO BE KEPT TO A MINIMUM. IF THE SIOLS DO BECOME WET AND/OR DISTURBED, THEY SHOULD BE REMOVED AND REPLACED PRIOR TO PLACEMENT OF ANY FILL OR FOOTING.
8. TO REDUCE DISTURBANCE OF THE BEARING FOOTINGS, THE FINAL EXCAVATION BE CONDUCTED WITH A BACKHOE HAVING A BUCKET WITH A STRAIGHT CUTTING EDGE.
9. EXCAVATIONS SHOULD BE BACKSLOPED IN ACCORDANCE WITH OSHA GUIDELINES.
10. WEEPHOLES SHALL BE INSTALLED IN ALL BOX CULVERT WALLS AND WING WALLS AS FOLLOWS. 1/2" DIA. STAINLESS STEEL HEAVY WALL CONDUIT FERRELS @ 2'-0" O.C. LOCATE FERRELS @ 1'-0" ABOVE HORIZONTAL CONSTRUCTION JOINT, TYPICAL.



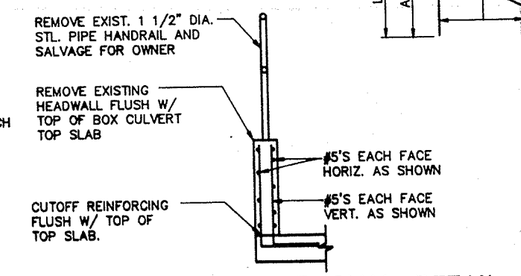
ROEMER ROAD WINGWALL LAYOUT

SCALE 1"=20'



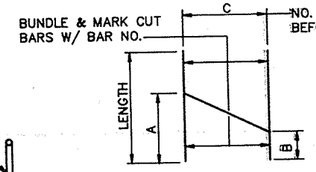
WINGWALL SECTION

SCALE 1/4" = 1'-0"



EXIST. HEADWALL REMOVAL DETAIL

SCALE 1/2" = 1'-0"



MARK	A	B	C	SETS REQ'D.
A411	10'-0"	8'-0"	8	2

CUTTING DIAGRAM

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

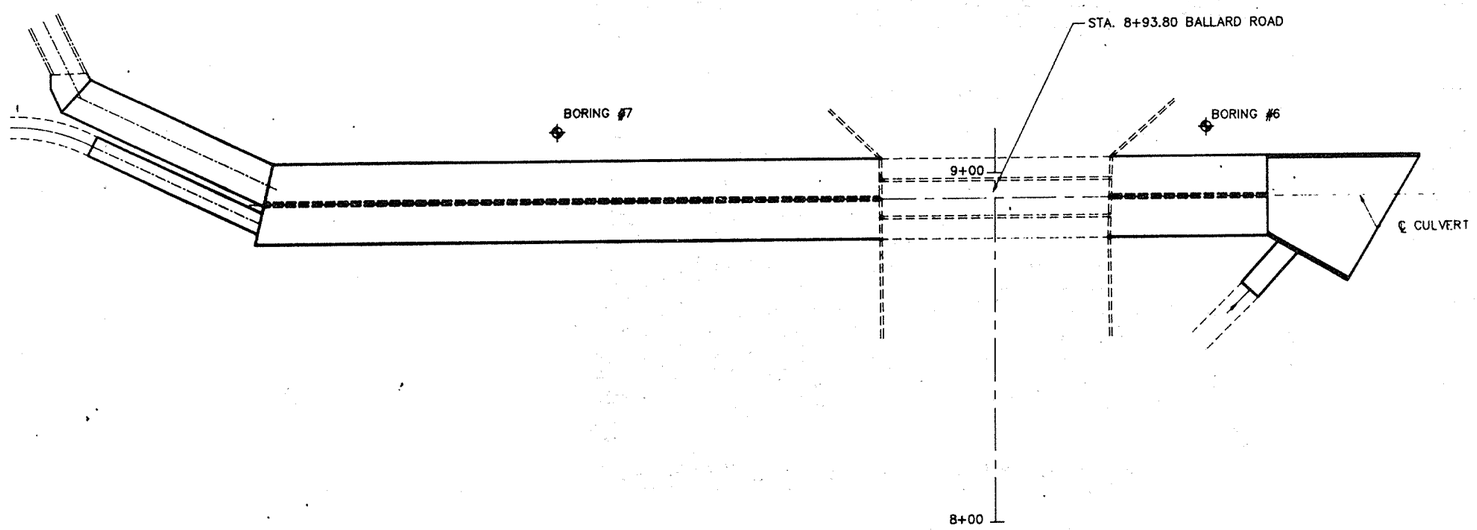
STRUCTURE P-44-715 EXTENSION

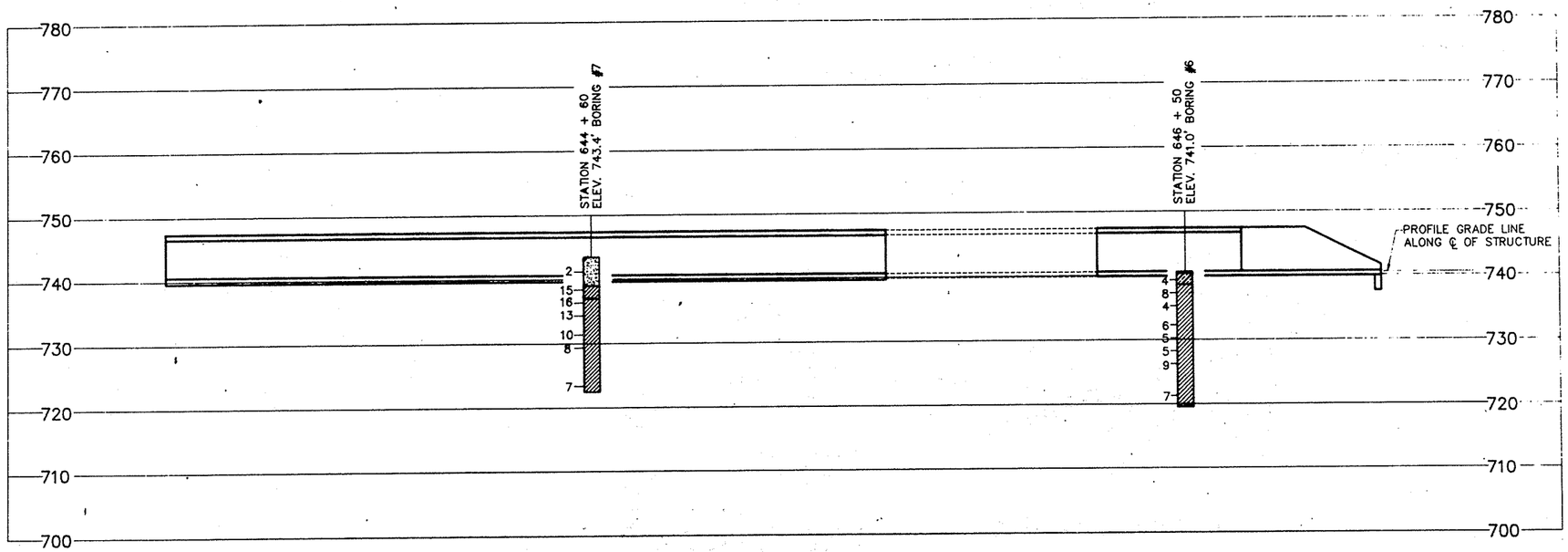
CONST SPEC WI 1989 | DRAWN BY RJT | PLN CHK MRS

DETAILS

SHEET 7 OF 9

X83942





STATE PROJECT NUMBER	SHEET NO.
4984-00-83	8.7

ABBREVIATIONS

F — Fine M — Medium C — Coarse
Ws — Weathered So — Sound

MATERIAL SYMBOLS

Topsoil, Silt, Sandstone, Sand, Peat, Limestone, Gravel, Clay, Igneous Rock

LEGEND OF PROBING

Probing No.
Sta.
Elevation
7 Average Blows Per Foot
Refusal 95, 6

95/6=95 Blows for 6" Penetration
Probing taken with a 350# wt. Falling 18" on a 2" O. D. Point.

LEGEND OF BORING

Boring No.
Sta.
Elev.
Unconfined Strength — 7.7
7
Sandy Gravel
Blows Per Ft. Using 140# Wt. Falling 30"
F.
Boulders or Cobbles
Wash Sample
Sand
Shelby Tube — S. T.
Ground Water Elevation
Silty Clay
No Ground Water Observed Above This Elevation
So
Limestone

Unless otherwise specified, the blows per foot at the locations indicated are based on driving a 2" O. D. x 1.4" I. D. split spoon sampler with a 140# hammer having a free fall of 30". The blow count is taken in undisturbed soil immediately below a cased or open hole eliminating side friction on the drive pipe.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

To obtain relative data concerning the character of material in and upon which the foundation might be built, borings and/or soundings were made at points approximately as indicated on this drawing. The data presented herein represents the findings of the subsurface explorations made. However, because the depths investigated are limited and the area of the borings and/or soundings is very small in relation to the entire area, the Division of Highways does not warrant conditions below the depths investigated or that the classification of material encountered in these investigations is necessarily typical of the entire site.

No.	Date.	Revision	By

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE P-44-715 EXTENSION

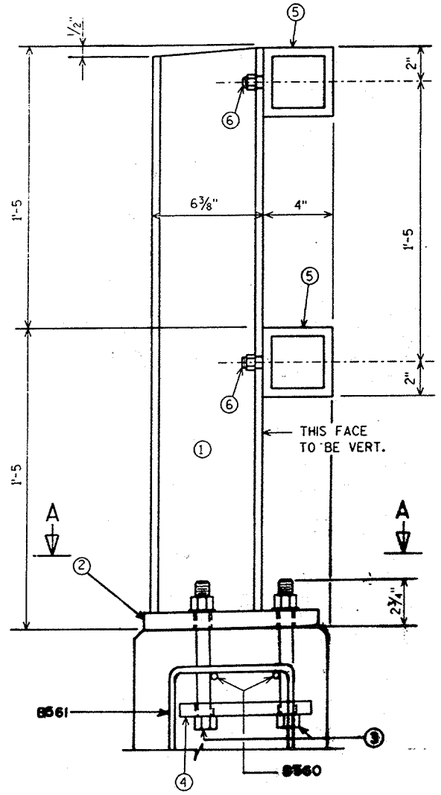
Const. Spec.	Drawn By	Plans Checked
WI 1989	RJT	MRS

SUBSURFACE EXPLORATION

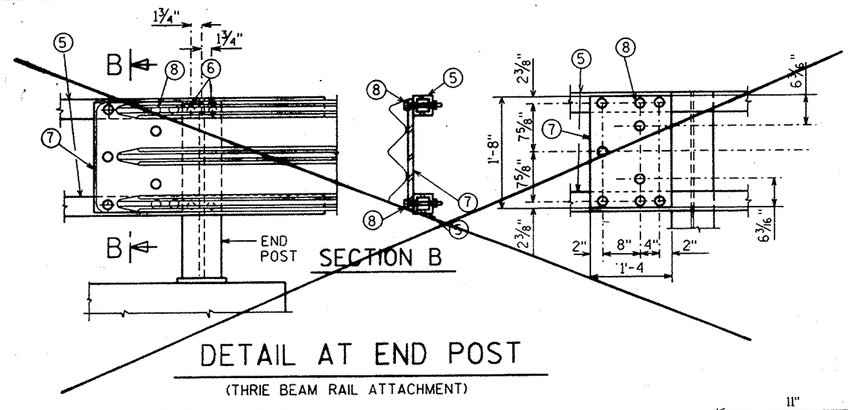
SHEET 8 OF 9

X 83942

STATE PROJECT NUMBER	SHEET NO.
4984-00-83	8.8

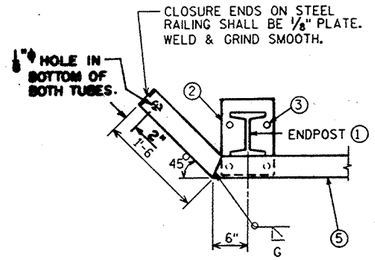


SECTION THRU RAILING

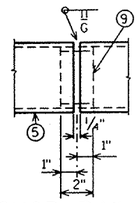


DETAIL AT END POST

(THRIE BEAM RAIL ATTACHMENT)

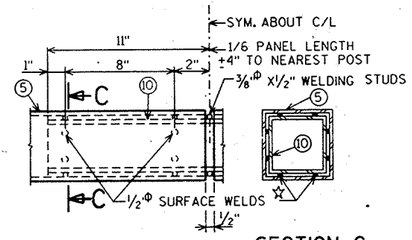


DETAIL AT END POSTS



SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



SECTION C

FIELD ERECTION JOINT DETAIL

☆ MIN. 5/8" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

LEGEND

(1) W6X25 WITH 1 1/4" DIA. HOLES ON EACH SIDE OF POST FLANGE FOR STUD NO. 6. **PLACE POSTS VERTICAL.**

(2) PLATE 1" X 9 1/2" X 0'-10", WITH 1 1/16" X 1 1/2" SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN.

(3) A325-7/8" DIA. HEX BOLTS (GALVANIZED) WITH A325 NUT AND WASHER. 4 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 3. CHAMFER TOP OF BOLTS BEFORE THREADING. **BOLTS TO BE 1'-3" LONG.**

(4) 1/4" X 8" X 8" FLAT BAR, WITH 15/16" DIA. HOLES FOR ANCHOR BOLTS NO. 3.

(5) TS 4X4X.25 STRUCTURAL TUBING, CONFORMING TO A.S.T.M. DESIGNATION A501 OR A500 GRADE B ATTACH TO NO. 1 WITH STUDS NO. 6.

(6) 5/8" DIA. X 1 1/2" LG. SHOP WELDED STUDS, WITH HEX. NUT AND 2" WASHERS. 4 PER POST REQ'D. (2 REQ'D. AT EACH LOCATION.)

~~(7) PLATE 3/4" X 1'-0" X 1'-6", WELD TO END RAIL POST AS SHOWN IN DETAIL. REQUIRED AT BEAM GUARD ATTACHMENTS ONLY.~~

~~(8) 1" DIA. HOLES IN PLATE NO. 7 FOR 7/8" DIA. A325 BOLTS W/HEX NUTS AND WASHERS.~~

(9) SQUARE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT" WITH A MINIMUM OUT TO OUT DIMENSION OF 3 13/32".

(10) TS 3 X 3 X .25 X ~~(2'-4" AT ABUT 2 &~~ (1'-10" AT FIELD JOINTS) LONG. PROVIDE 1/2" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 5. PROVIDE 3/8" DIA. X 1/2" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

GENERAL NOTES

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

RAILING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS.

POSTS BASE PLATES, NO. 2, SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

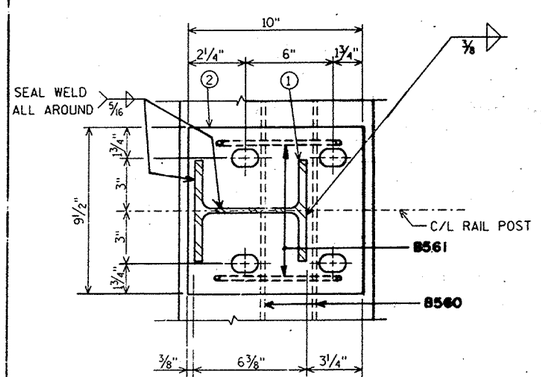
ALL MEMBERS INCLUDING ANCHORAGE COMPONENTS SHALL BE GALVANIZED AFTER FABRICATION.

FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

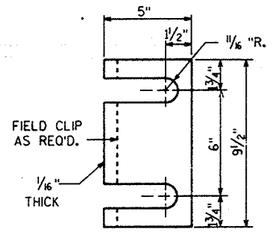
ALL MATERIAL, EXCEPT NO. 4 SHALL BE MADE FROM MATERIALS CONFORMING TO A.S.T.M. DESIGNATION A709 GRADE 36 UNLESS NOTED OTHERWISE.

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

PRIOR TO GALVANIZING, ALL STEEL RAILING SHALL BE GIVEN A NO. 6 COMMERCIAL BLAST CLEANING BY S.S.P.C. SPECIFICATION. BLAST CLEANING IS NOT REQ'D. FOR COLD FORMED TUBING (5), EXCEPT TO REMOVE WELDING SLAG AND IMPERVIOUS SUBSTANCES.

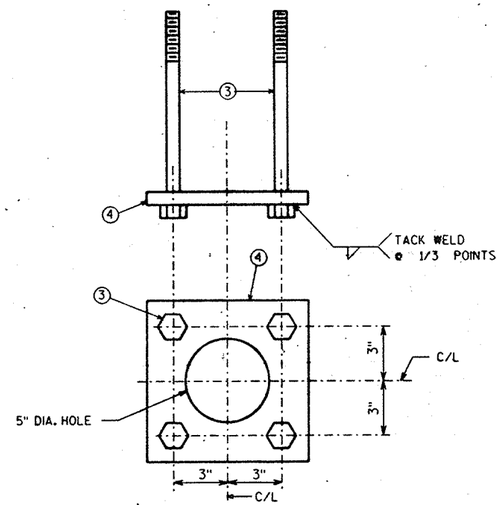


SECTION A



POST SHIM DETAIL

(4 PER POST)



ANCHORAGE DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE **P-44-715**

CONST. SPEC. 1989	DRAWN BY	PLANS CHD.

TUBULAR RAILING TYPE 'F'

SHEET **9 OF 9**

X83942

FHR S:\DGN\RAILF.DGN

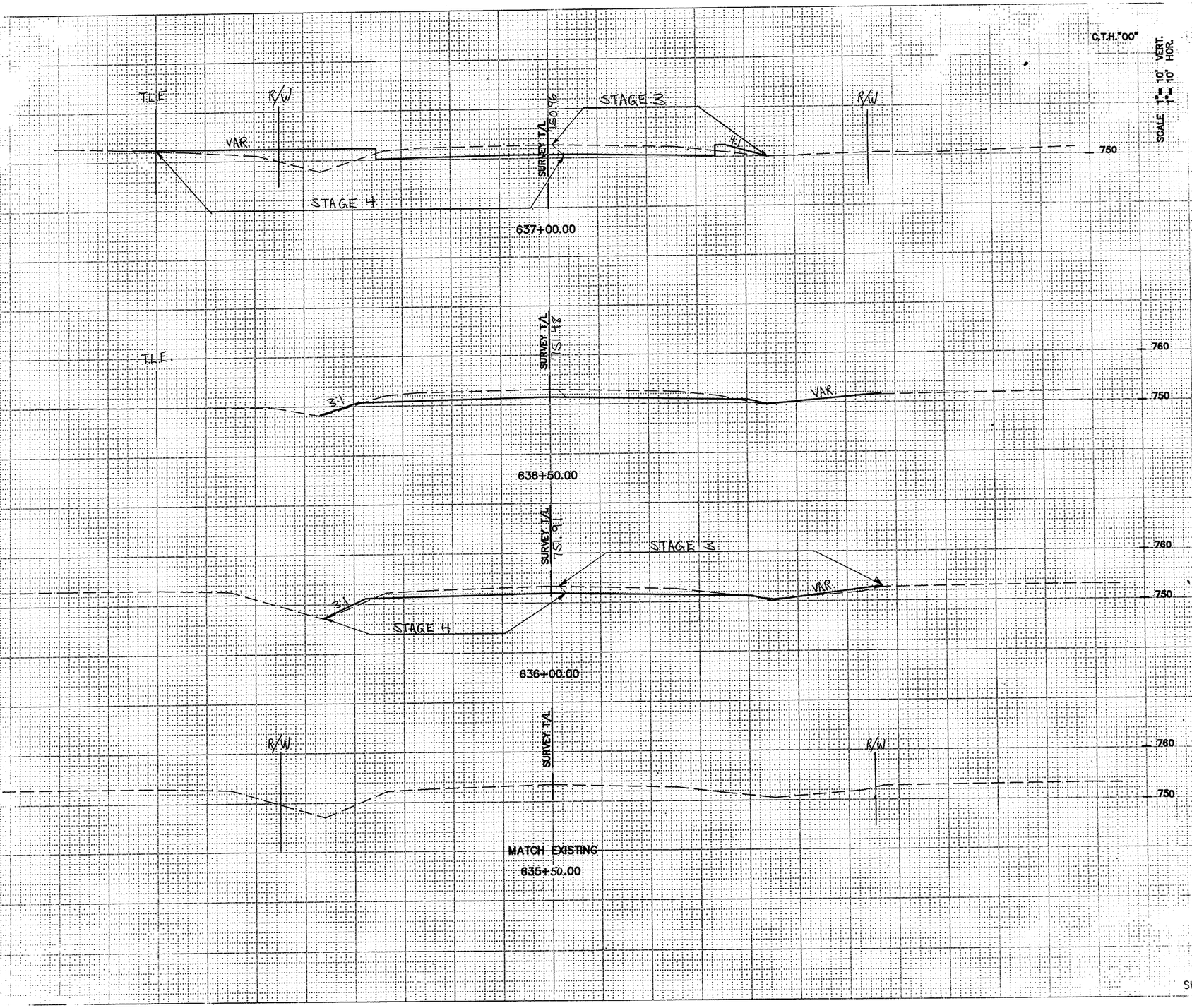
STATE PROJECT NUMBER: 4984-00-83

SHEET NUMBER: 9.0

C.T.H."00"

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

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL



SHEET TOTAL

C.T.H. "00"

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

STATE PROJECT NUMBER 4984-0-83

SHEET NUMBER 9.1

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL

R/W

VAR

STAGE 4

SURVEY T/L

T147.66

STAGE 3

VAR

R/W

T.L.E.

750

639+50.00

SURVEY T/L

T148.06

T.L.E.

750

639+00.00

T.L.E.

SURVEY T/L

T148.63

T.L.E.

750

638+50.00

T.L.E.

SURVEY T/L

T129.36

VAR

T.L.E.

750

638+00.00

R/W

T.L.E.

SURVEY T/L

T150.22

STAGE 3

R/W

T.L.E.

VAR

750

STAGE 4

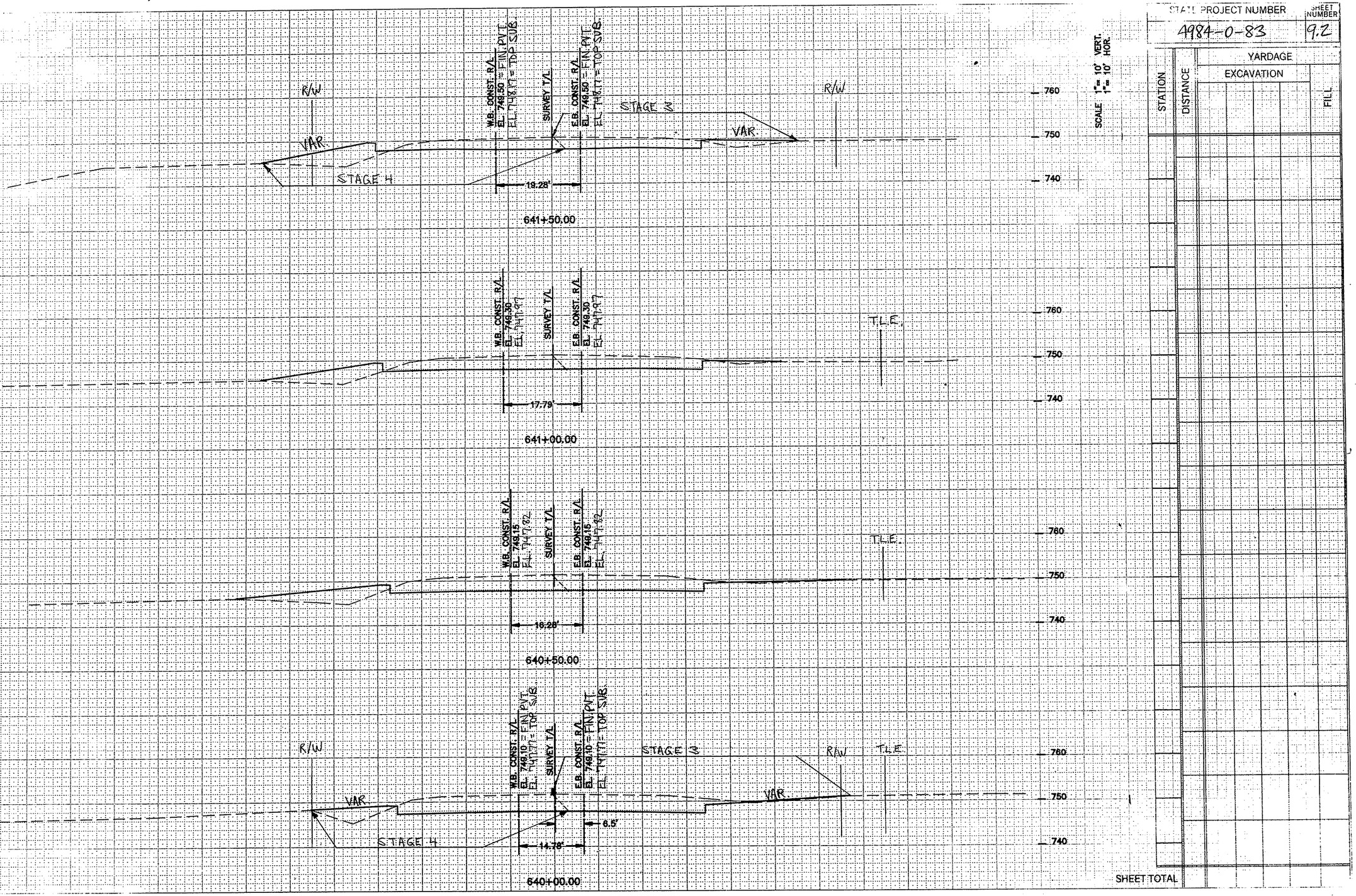
637+50.00

SHEET TOTAL

STATE PROJECT NUMBER: 4984-0-83 | SHEET NUMBER: 9.2

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

STATION	DISTANCE	YARDAGE EXCAVATION	FILL



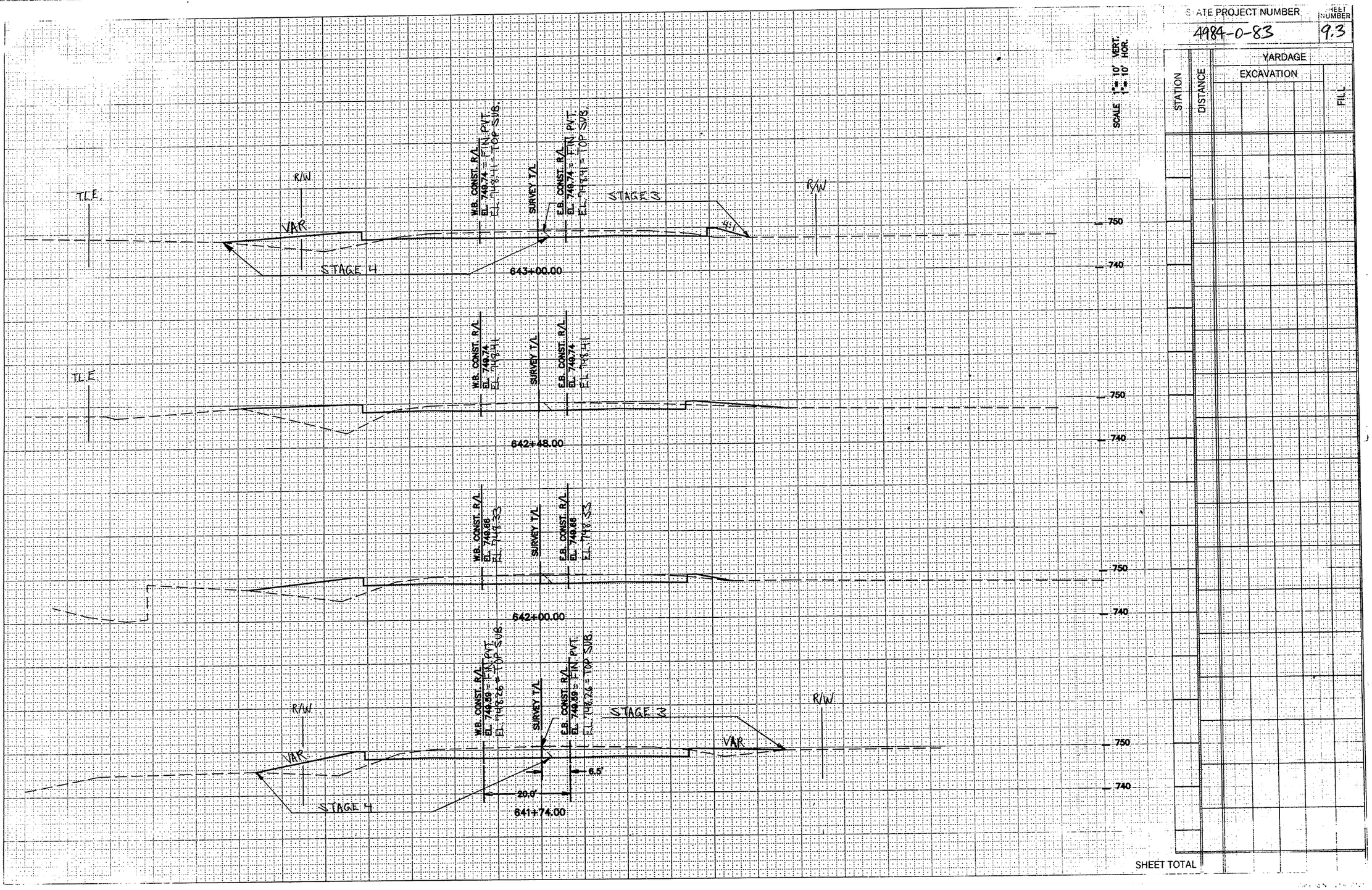
SHEET TOTAL

STATE PROJECT NUMBER: 4984-0-83

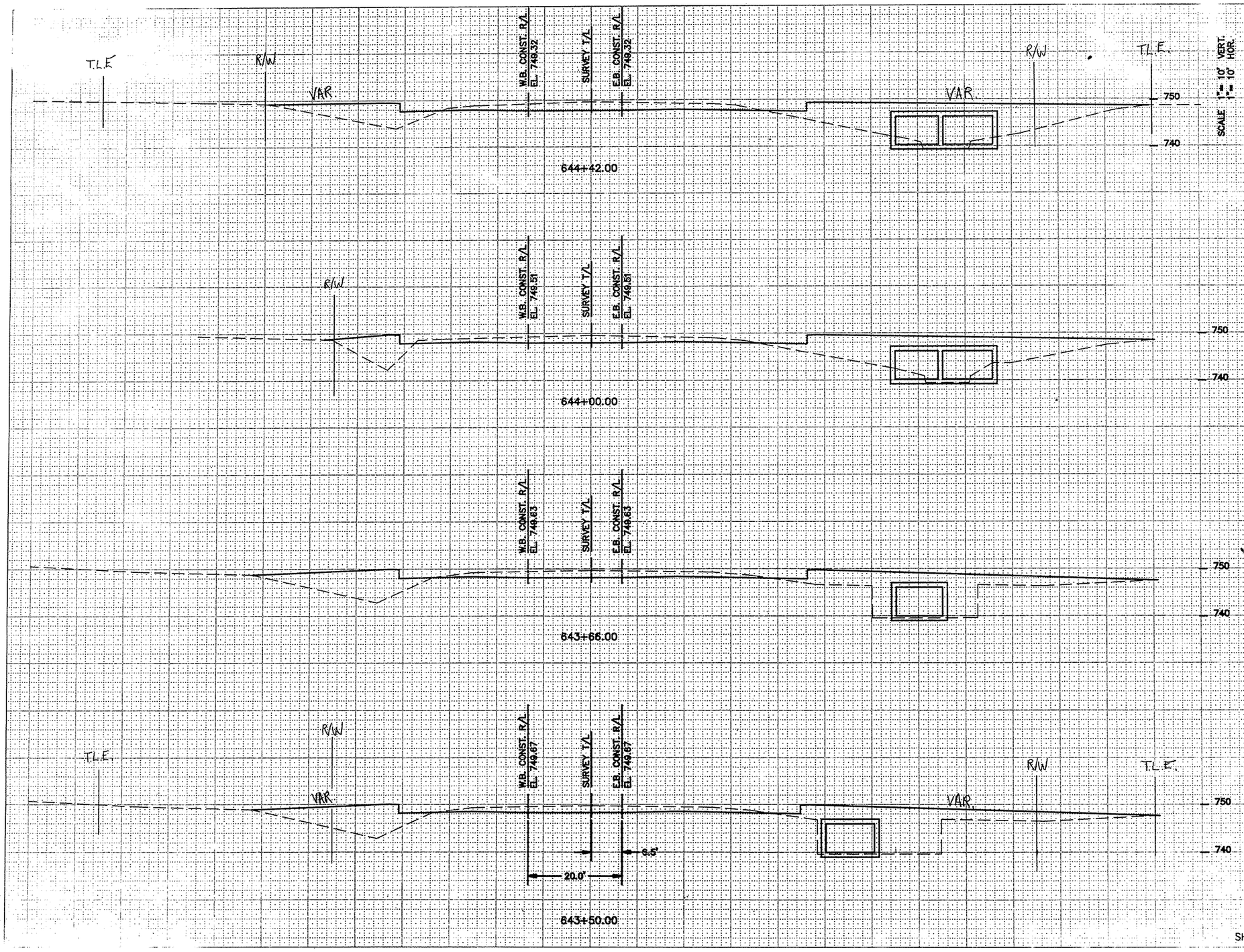
SHEET NUMBER: 9.3

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

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL



SHEET TOTAL



STATE PROJECT NUMBER	SHEET NUMBER
4984-0-83	9.4

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL

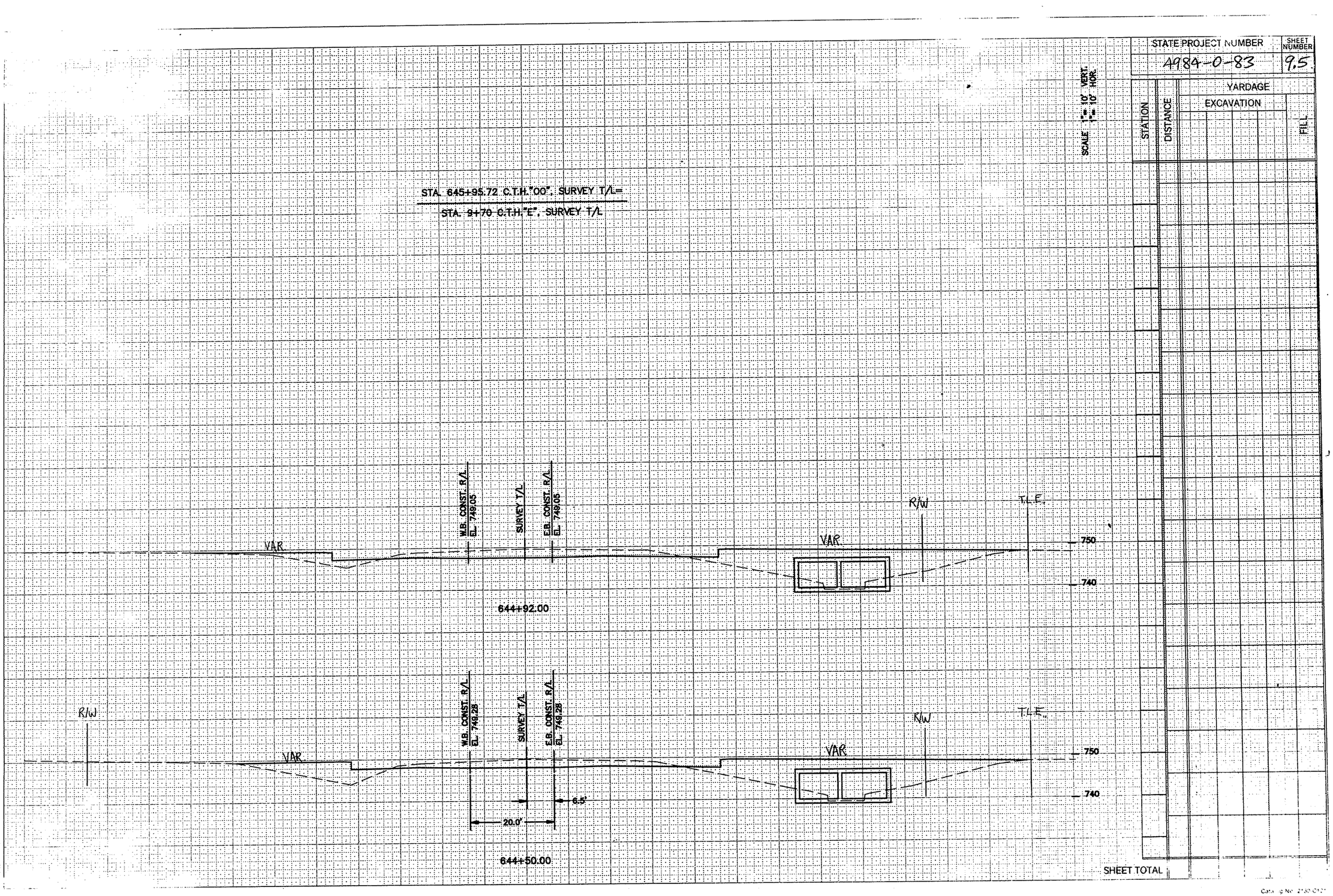
SHEET TOTAL

STATE PROJECT NUMBER: 4984-0-83 | SHEET NUMBER: 9.5

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

STATION	DISTANCE	YARDAGE EXCAVATION	FILL

STA. 645+95.72 C.T.H."OO", SURVEY T/L=
STA. 9+70 C.T.H."E", SURVEY T/L



SHEET TOTAL

Catalog No. 2130-012

STATE PROJECT NUMBER	SHEET NUMBER
4984-0-83	9.6

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

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL



SHEET TOTAL

TELEFORM PDF 94/001

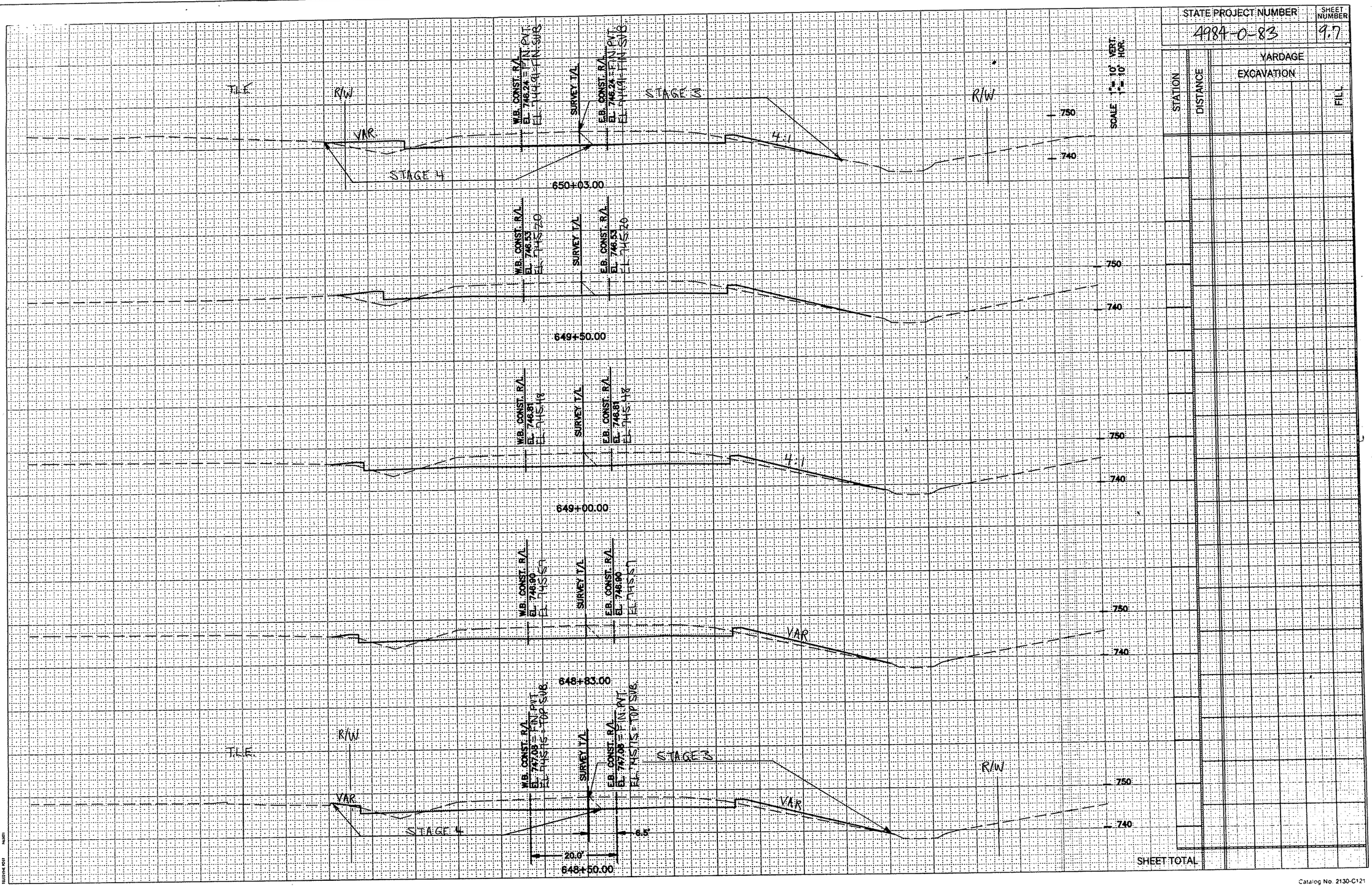
STATE PROJECT NUMBER: 4984-0-83

SHEET NUMBER: 9.7

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

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL
650+03.00			
649+50.00			
649+00.00			
648+83.00			
648+50.00			

SHEET TOTAL



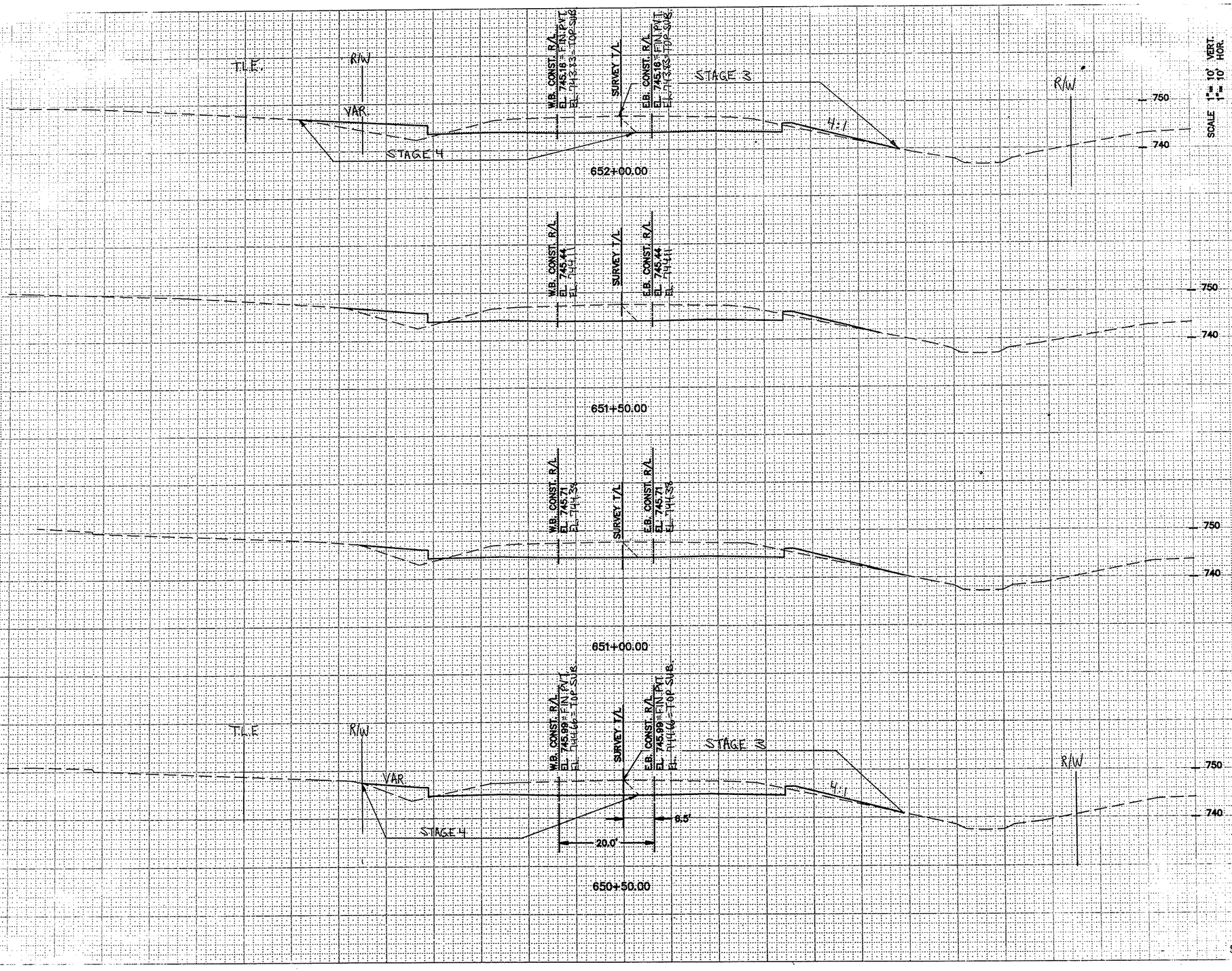
TELEFORM PDF 7/4/2021

STATE PROJECT NUMBER: 4984-0-83

SHEET NUMBER: 9.8

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

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL

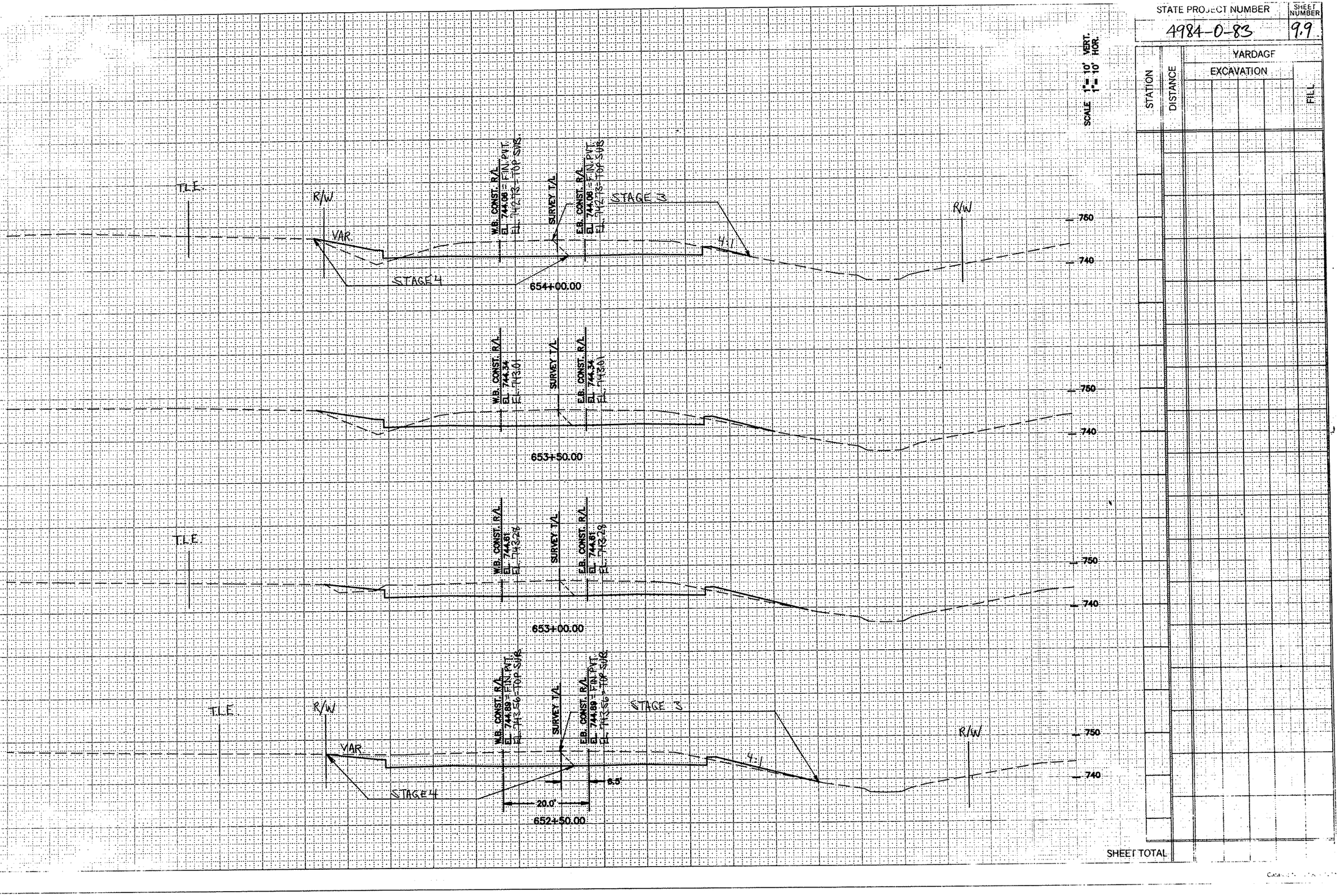


SHEET TOTAL

STATE PROJECT NUMBER: 4984-0-83 | SHEET NUMBER: 9.9

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

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL



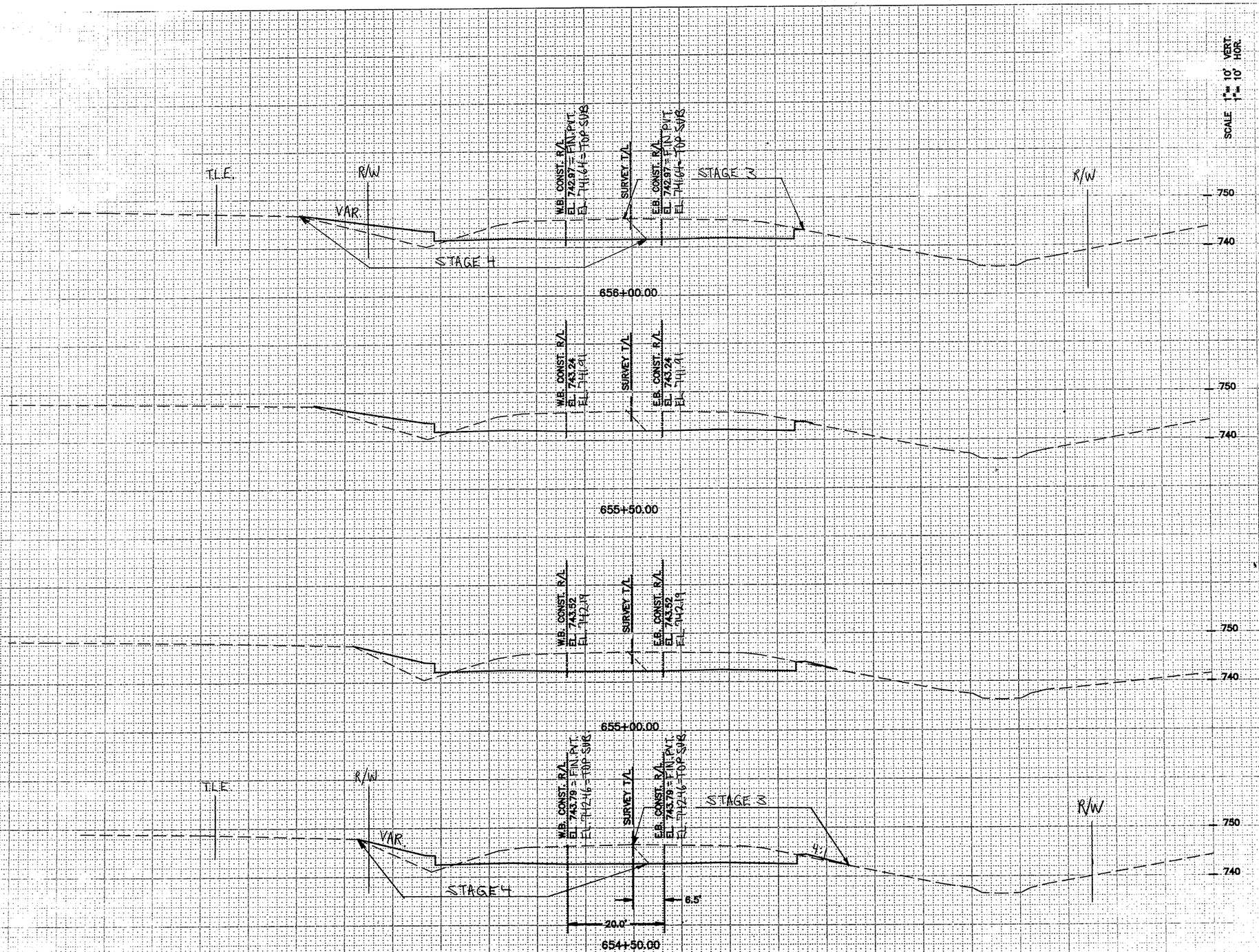
SHEET TOTAL

STATE PROJECT NUMBER: 4984-0-83

SHEET NUMBER: 9.10

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

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL



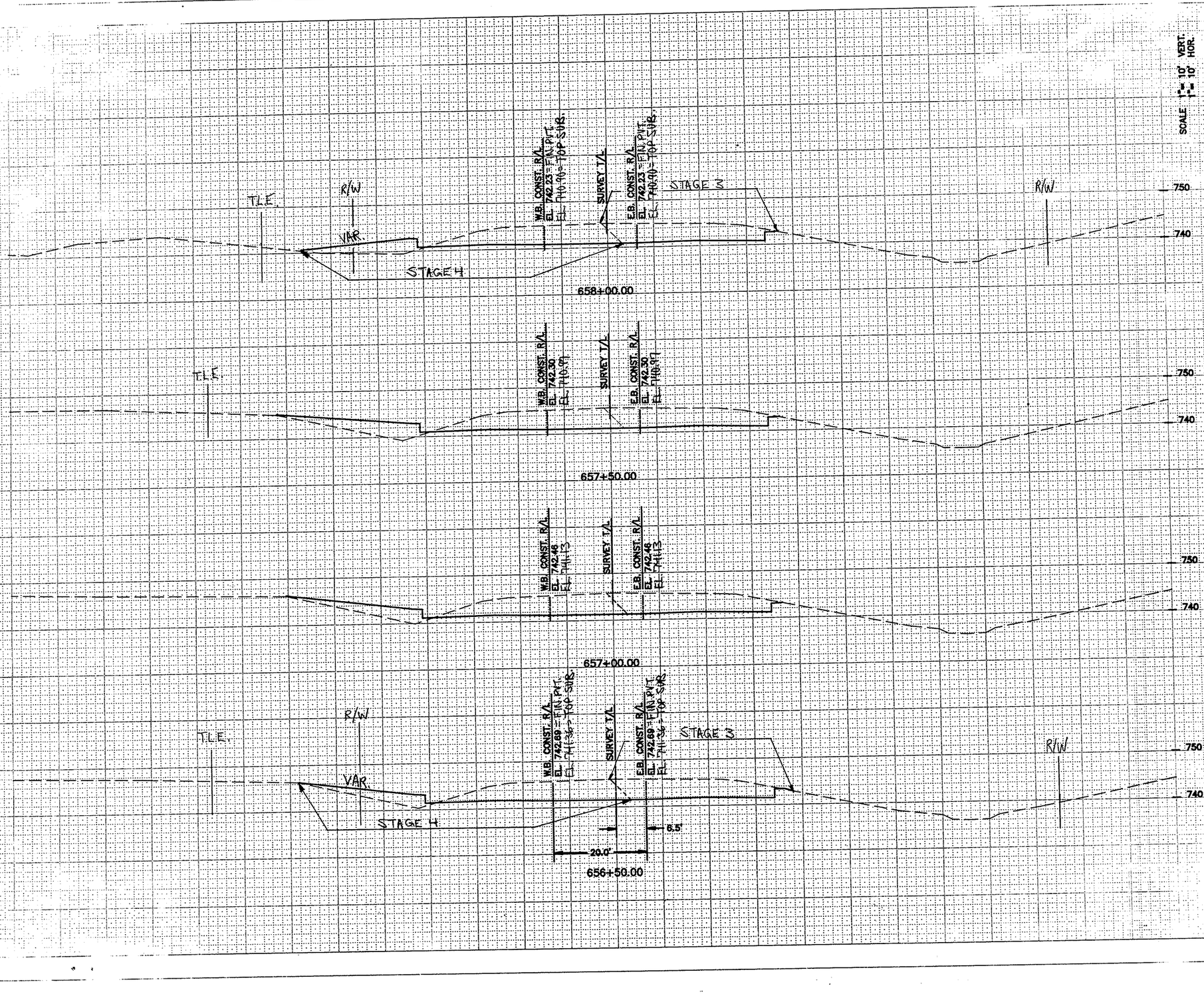
SHEET TOTAL

STATE PROJECT NUMBER: 4984-0-83

SHEET NUMBER: 9.11

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

STATION	DISTANCE	YARDAGE: EXCAVATION	YARDAGE: FILL

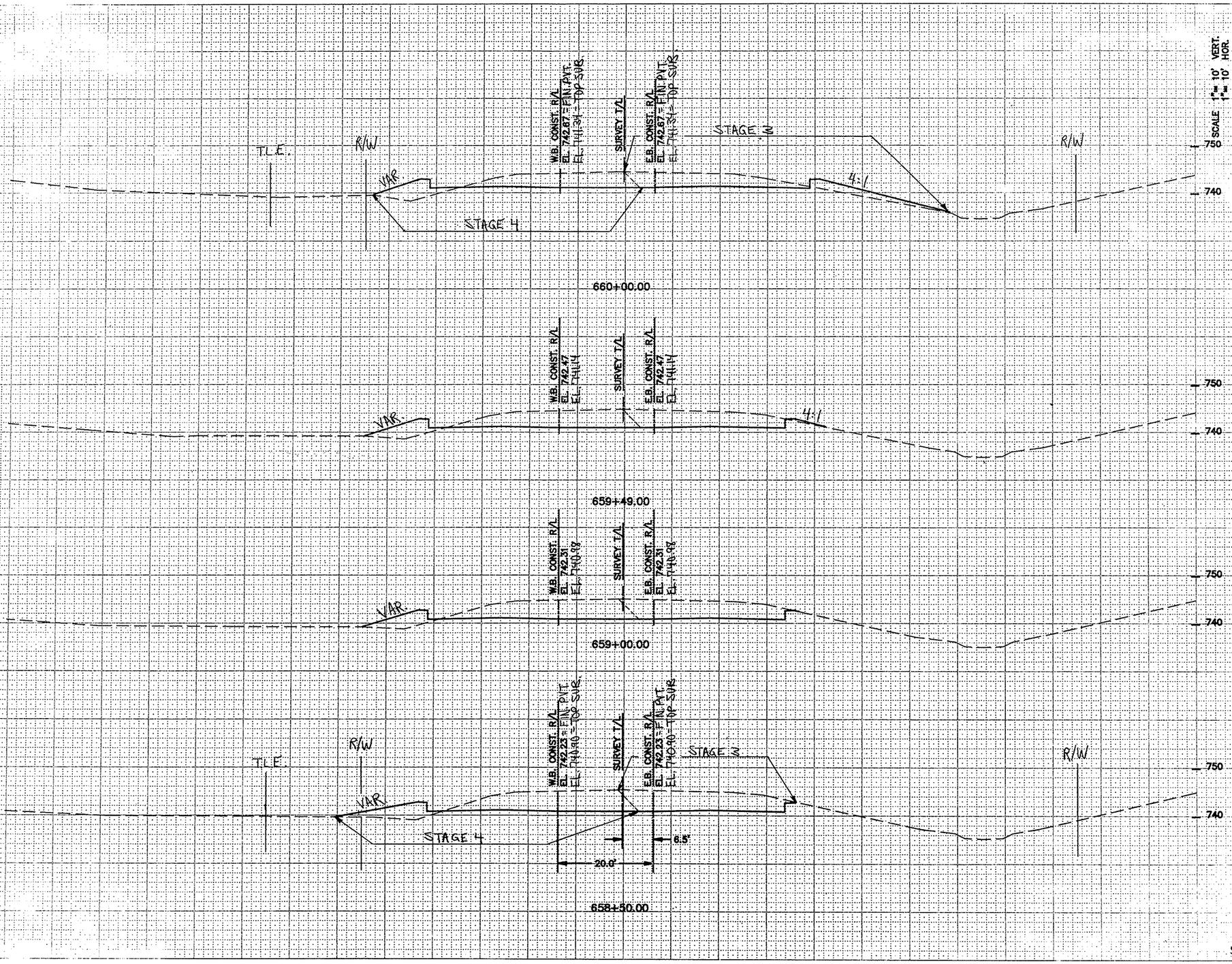


SHEET TOTAL

STATE PROJECT NUMBER	SHEET NUMBER
4984-0-83	9/12

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL

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

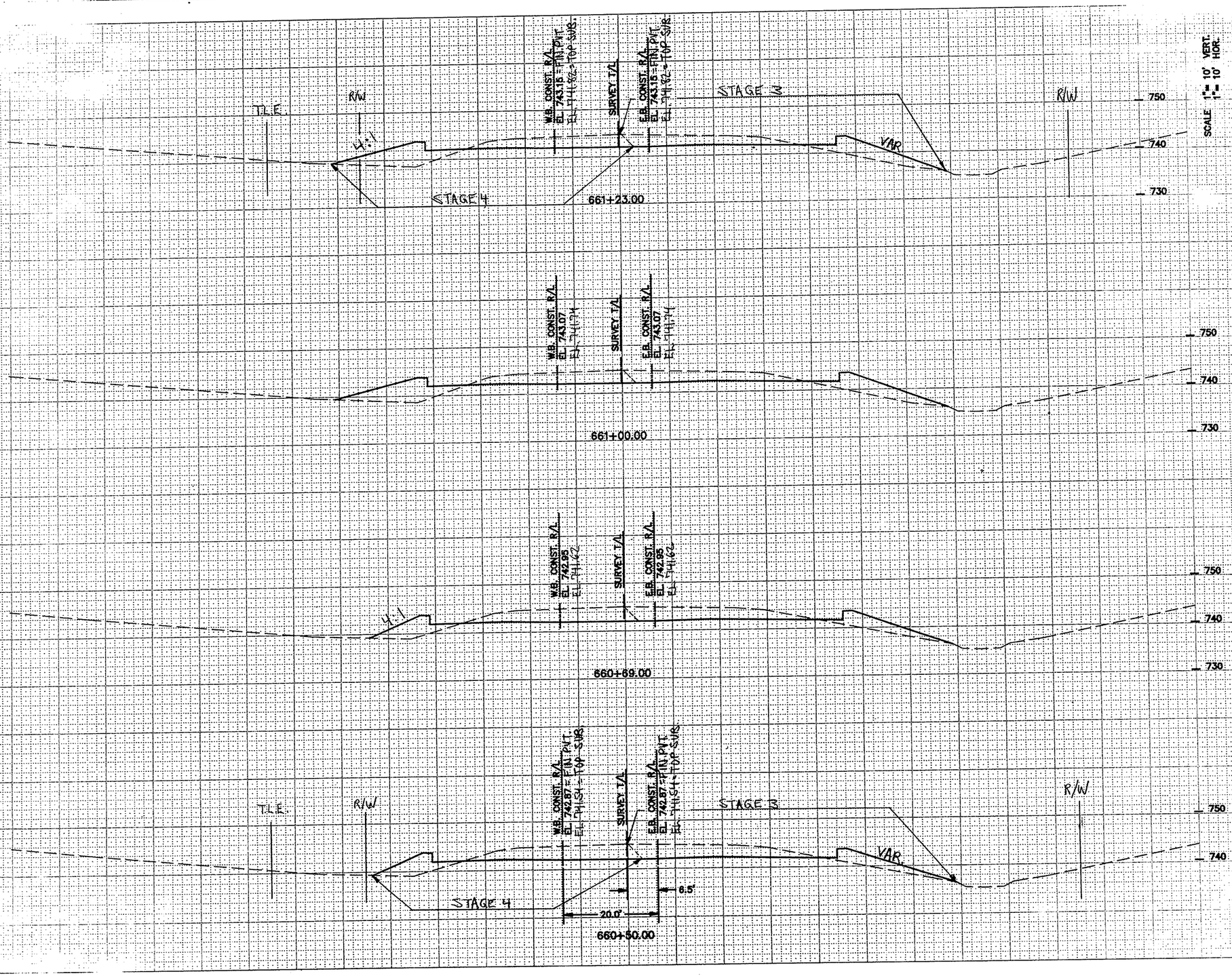


SHEET TOTAL

ATE PROJ NUMBER 4984-0-83 | SHEET NUMBER 9.13

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

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL



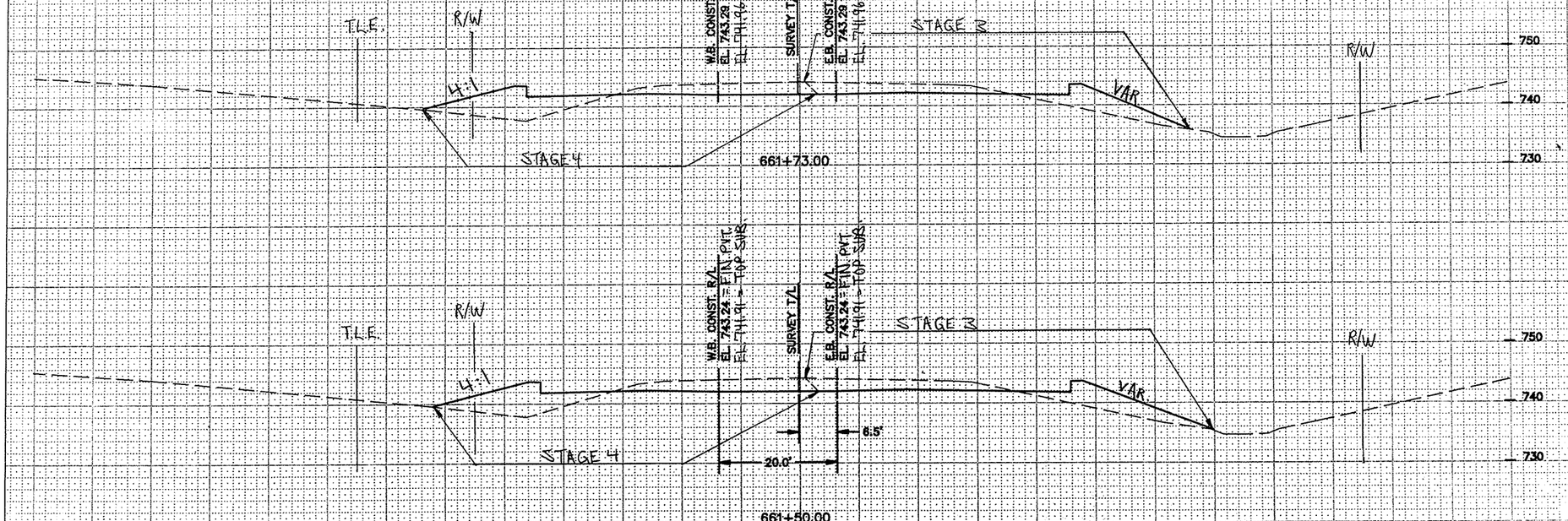
SHEET TOTAL

STATE PROJECT NUMBER: 4984-0-83 | SHEET NUMBER: 9,14

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

STATION | DISTANCE | YARDAGE: EXCAVATION | FILL

STA. 662+43.35 C.T.H."00", SURVEY T/L=
STA. 10+00 S. ROEMER ROAD



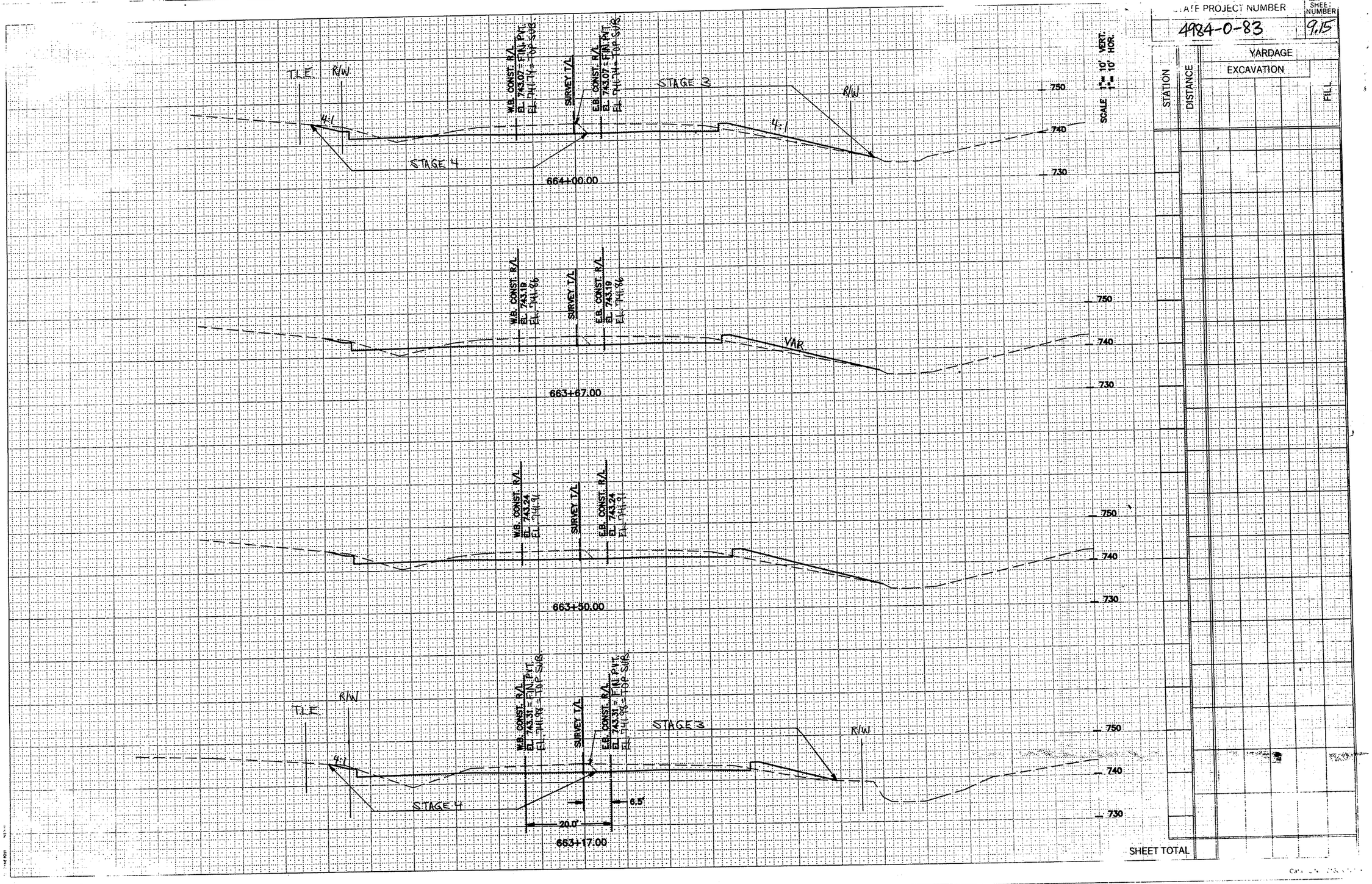
SHEET TOTAL

STATE PROJECT NUMBER: 4924-0-83

SHEET NUMBER: 9.15

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

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL



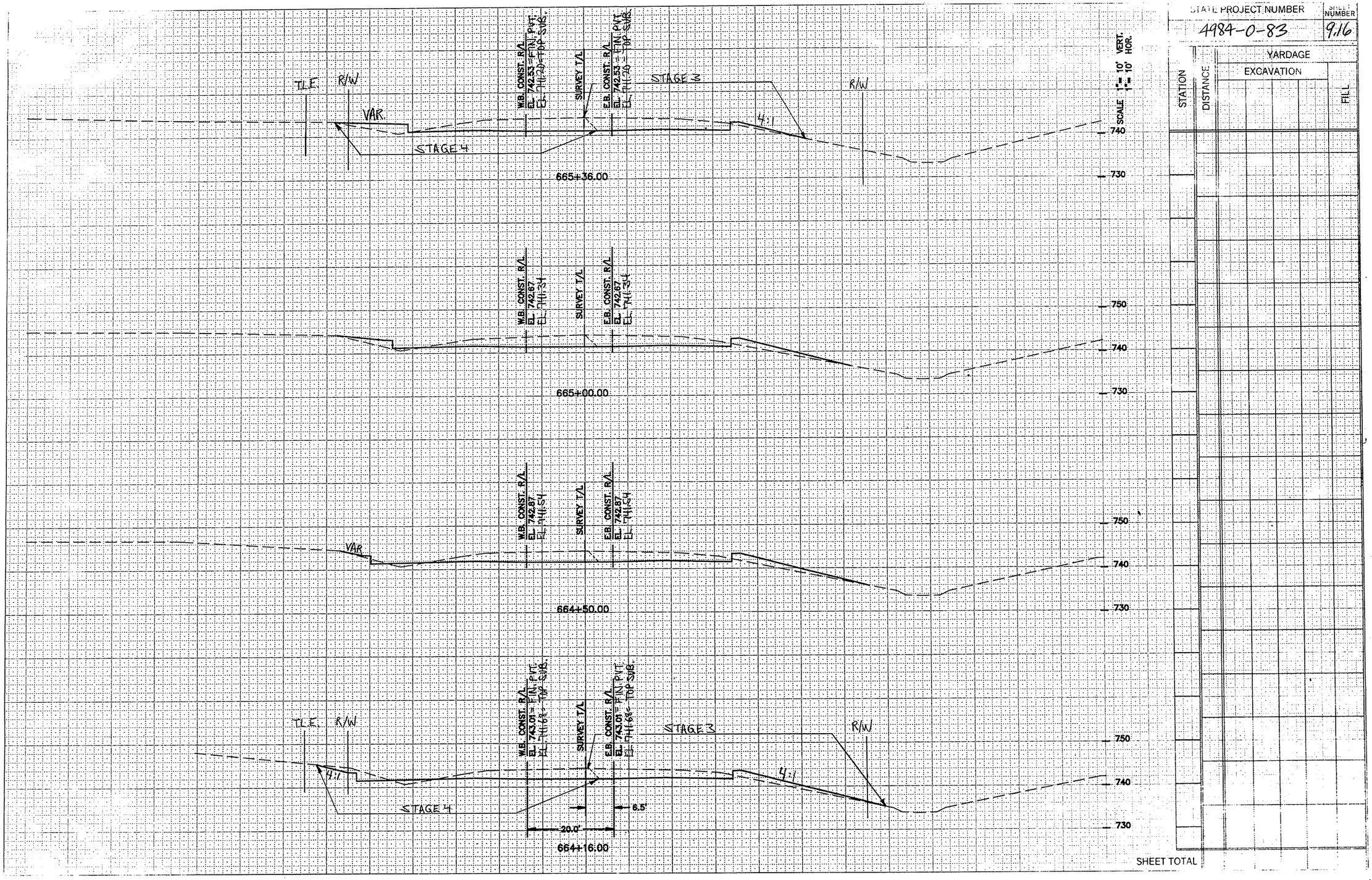
SHEET TOTAL

STATE PROJECT NUMBER: 4984-0-83

SHEET NUMBER: 9.16

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL

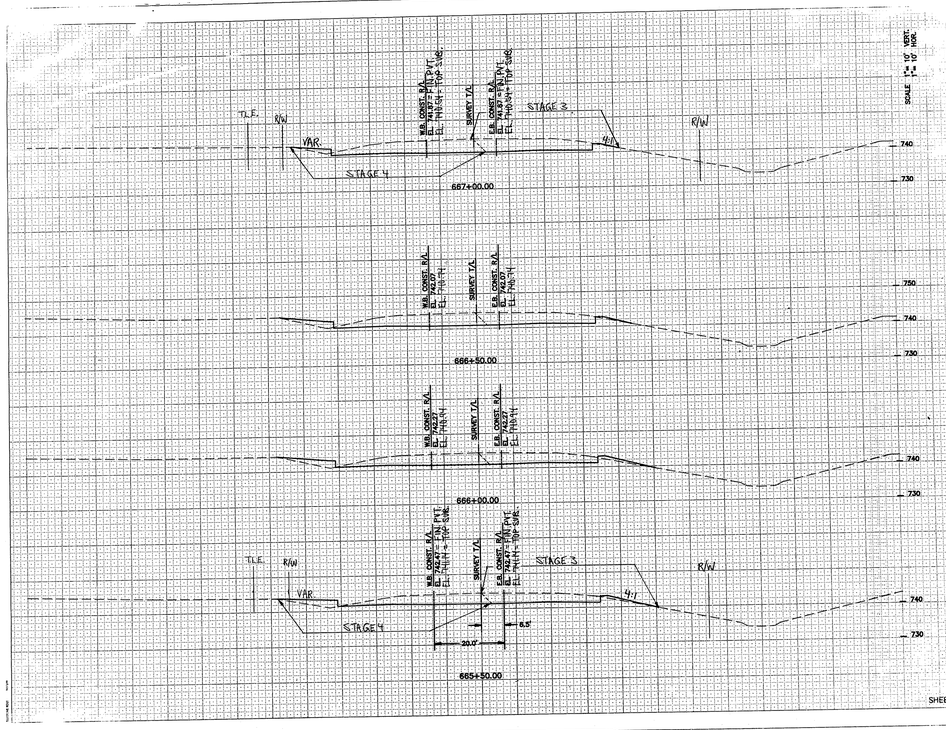
SHEET TOTAL



STATE PROJECT NUMBER: 4984-0-83

SHEET NUMBER: 9.17

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



STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL

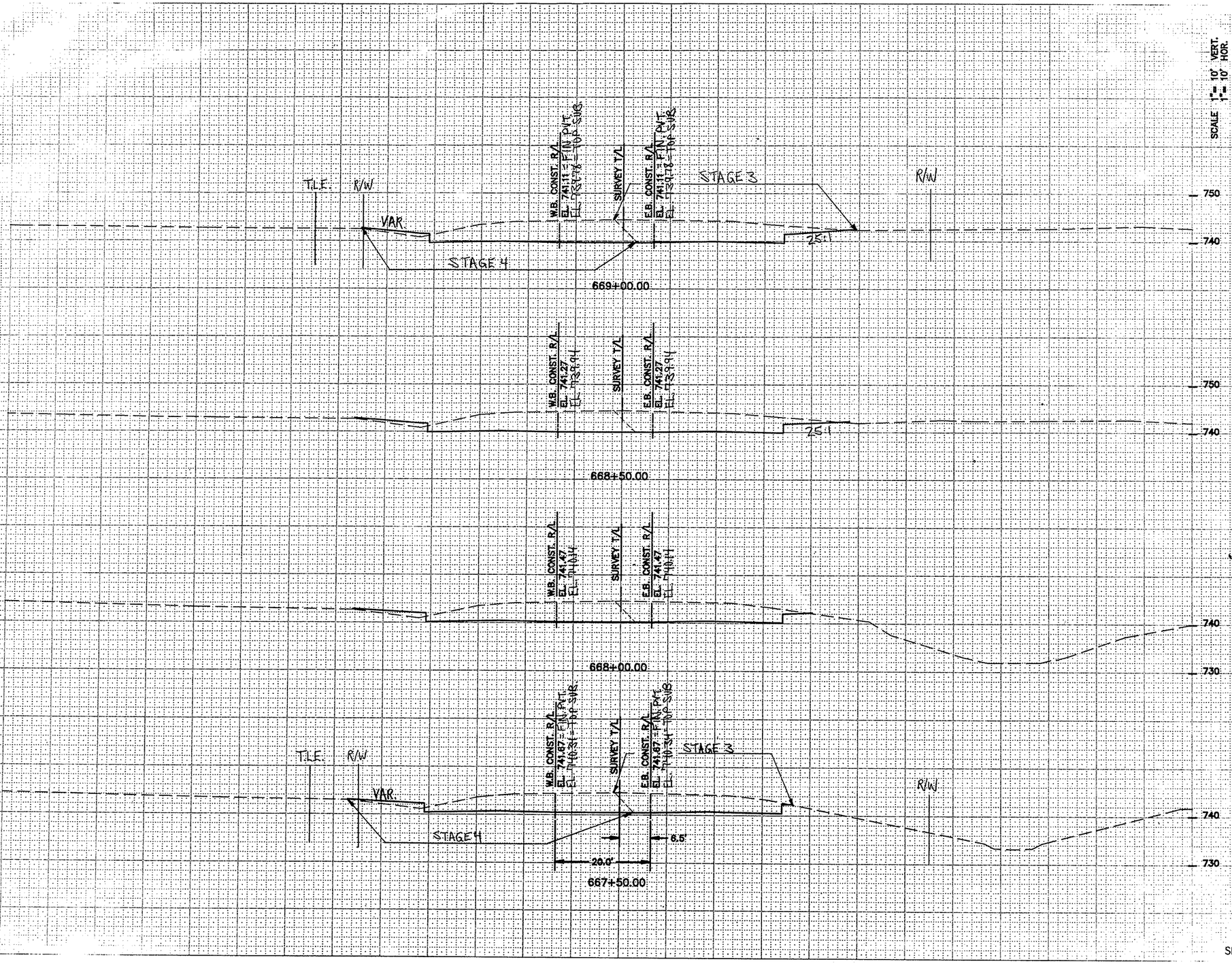
SHEET TOTAL

STATE PROJECT NUMBER: 4984-0-83

SHEET NUMBER: 9.18

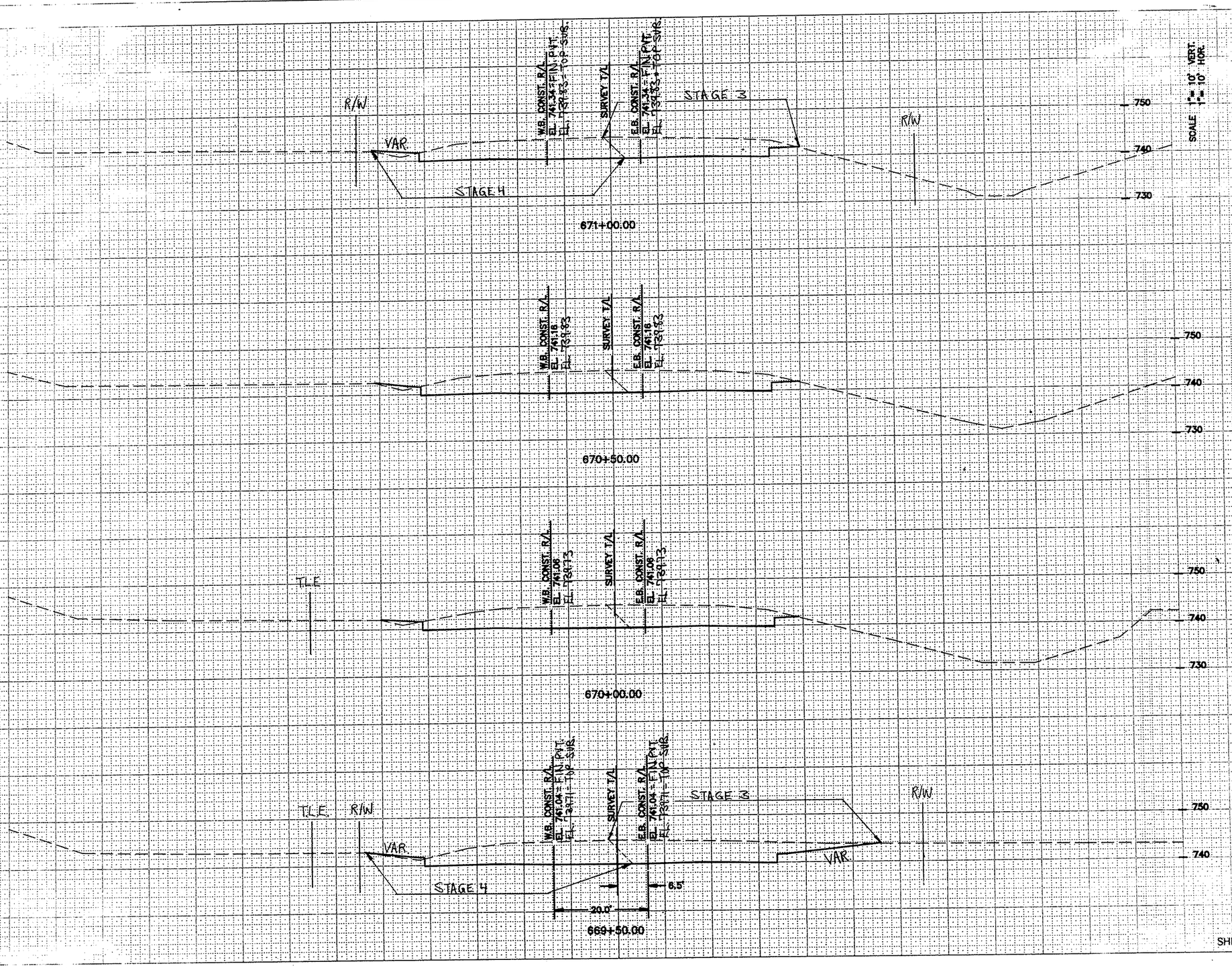
SCALE 1"= 10' VERT. 1"= 10' HOR.

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL



SHEET TOTAL

STATE PROJECT NUMBER	SHEET NUMBER
4984-0-83	9.19



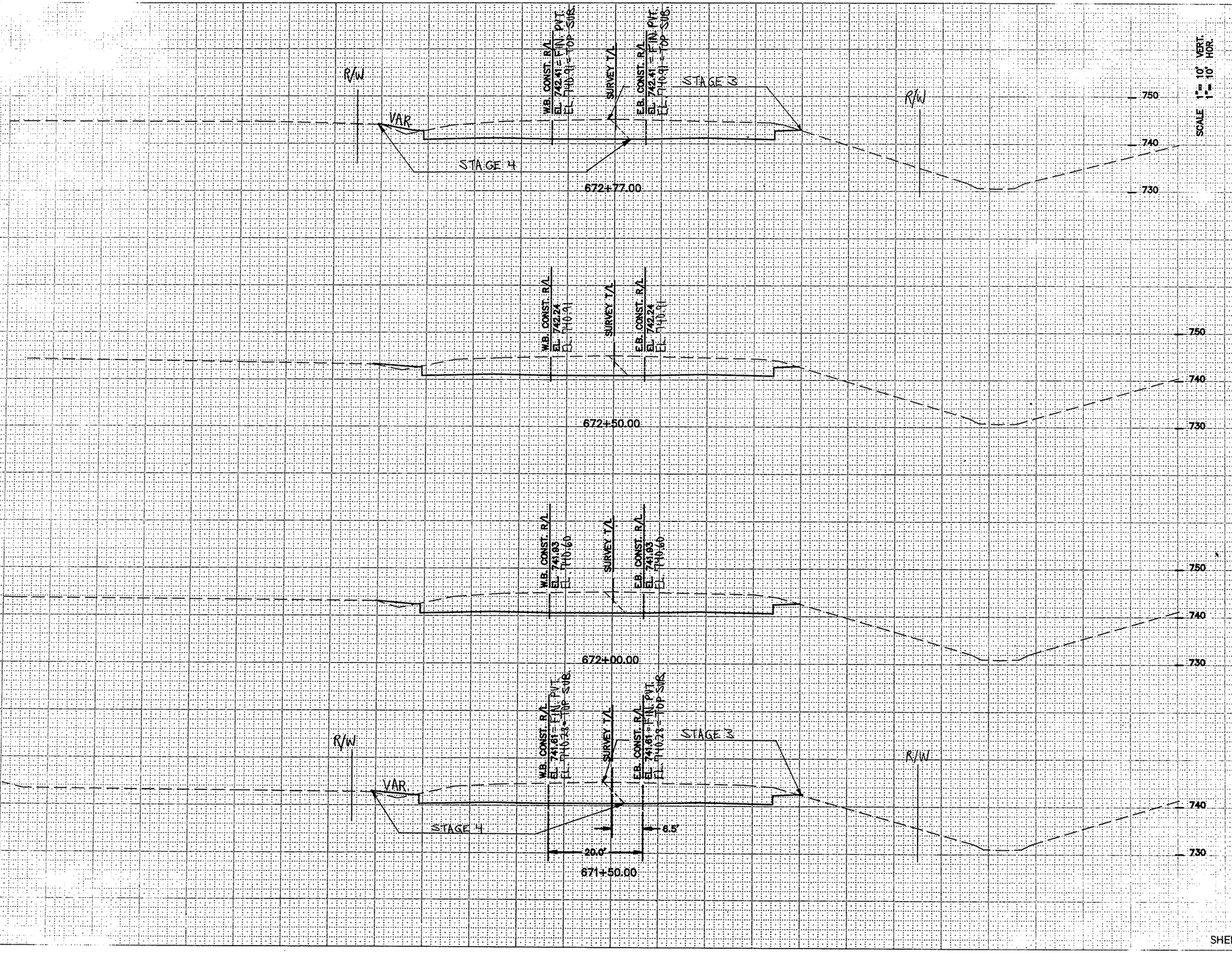
STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL

SHEET TOTAL

STATE PROJECT NUMBER: 4984-0-83

SHEET NUMBER: 9.20

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



STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL

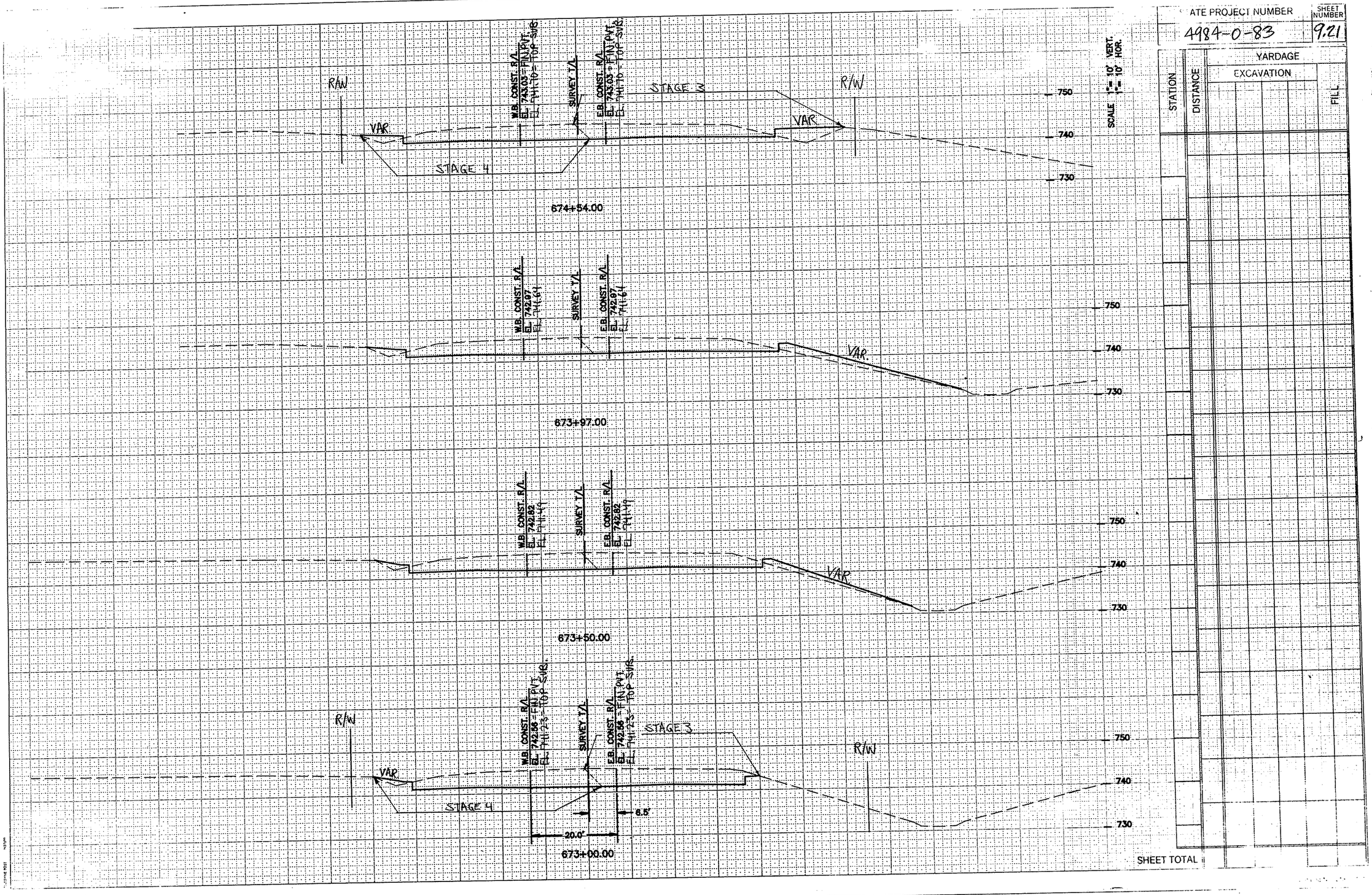
SHEET TOTAL

ATE PROJECT NUMBER 4984-0-83

SHEET NUMBER 9.21

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

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL



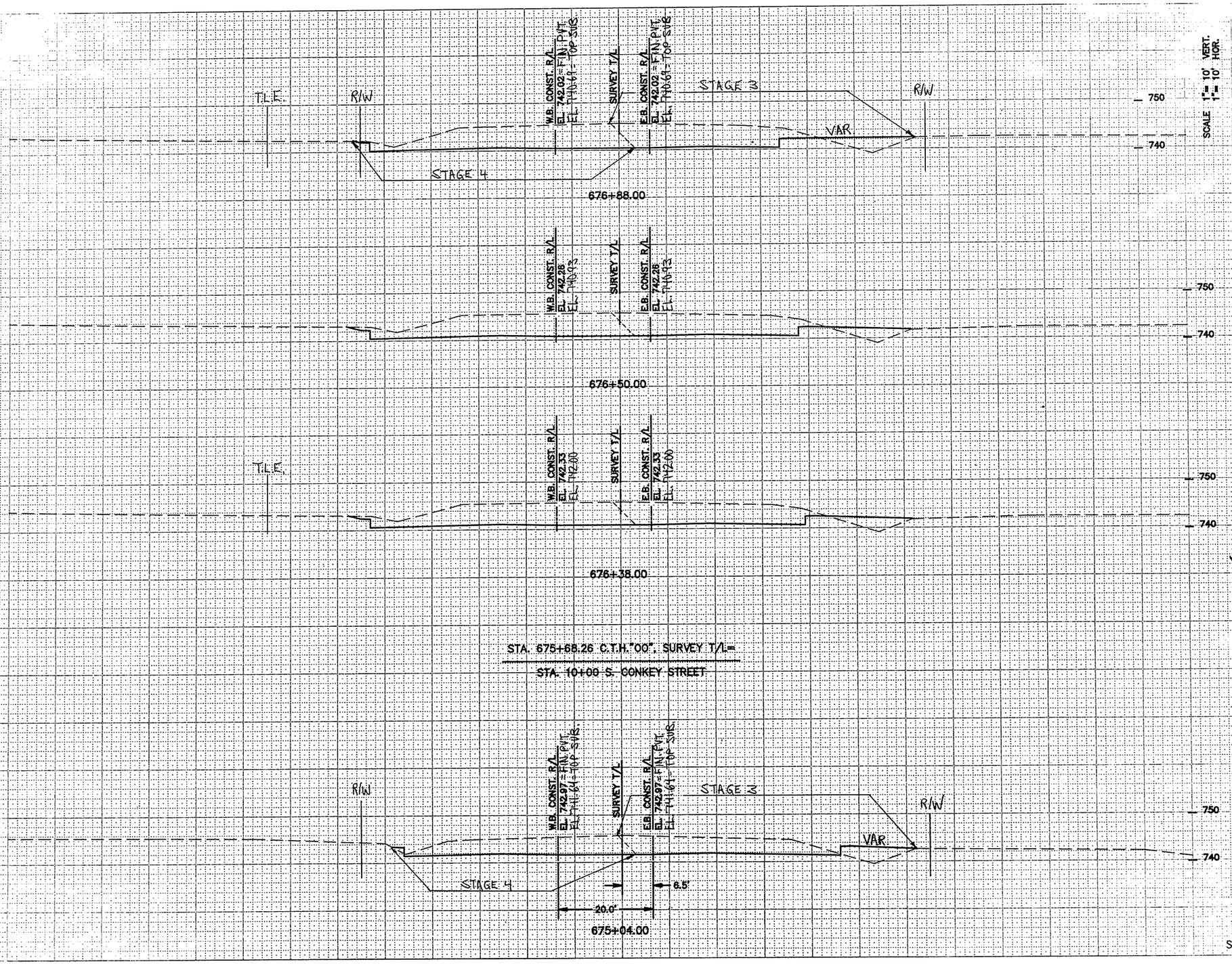
SHEET TOTAL

STATE PROJECT NUMBER: 4984-0-83

SHEET NUMBER: 9.22

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

STATION	DISTANCE	YARDAGE EXCAVATION	FILL



SHEET TOTAL

STATE PROJECT NUMBER	SHEET NUMBER
4984-0-83	9.23

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

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL

T.L.E.

R/W

VAR.

STAGE 4

W.B. CONST. R/L EL. 741.56 = FIN. PVT. EL. 740.23 + TOP SUB.

SURVEY T/L

E.B. CONST. R/L EL. 741.56 = FIN. PVT. EL. 740.23 + TOP SUB.

STAGE 3

R/W

VAR.

750

740

678+00.00

W.B. CONST. R/L EL. 741.70 EL. 740.37

SURVEY T/L

E.B. CONST. R/L EL. 741.70 EL. 740.37

750

740

677+50.00

W.B. CONST. R/L EL. 741.72 EL. 740.39

SURVEY T/L

E.B. CONST. R/L EL. 741.72 EL. 740.39

750

740

677+45.00

T.L.E.

R/W

W.B. CONST. R/L EL. 741.95 = FIN. PVT. EL. 740.62 + TOP SUB.

SURVEY T/L

E.B. CONST. R/L EL. 741.95 = FIN. PVT. EL. 740.62 + TOP SUB.

STAGE 3

R/W

VAR.

STAGE 4

750

740

6.5'

20.0'

677+00.00

SHEET TOTAL

U.S. PUBLIC LAND SURVEY MONUMENT RECORD

No. _____

I, ROBERT F. REIDER, do hereby certify that on the 10th day of MAY 1993, I found ~~XXXXXXX~~ (no evidence) of the SOUTH 1/4 corner of SECTION 18, T 21 N, R 18 E. Fourth Principal Meridan, and I re-established said corner according to the Wisconsin Statutes as shown and described hereon.

Dated this 14th day of JANUARY 1994.

Robt F. Reider
Signature

REGISTERED WISCONSIN LAND SURVEYOR
Title

CAROW LAND SURVEYING CO., INC.
P.O. BOX 1297, 1837 W. WIS. AVE.
APPLETON, WISCONSIN 54912-1297

History of original corner establishment:

SEE PREVIOUS CORNER TIE SHEET BY THIS SURVEYOR DATED DECEMBER 22, 1992

Description of corner evidence found:

CORNER PREVIOUSLY TIED AND RECORDED BY THIS SURVEYOR AND DATED DECEMBER 22, 1992. DUE TO HIGHWAY RECONSTRUCTION THE WITNESS MONUMENTS HAD TO BE RELOCATED. THE CORNER LOCATION WAS HELD AS THE PREVIOUS CORNER TIE SHEET AND NEW TIES WERE TAKEN TO THE NEW WITNESS MONUMENTS AS SHOWN BELOW. SET A SAW CROSS IN THE CONCRETE PAVEMENT AT THE ACTUAL CORNER LOCATION.

Description of corner and witness monuments, references and accessories used to perpetuate the original or re-established location of this corner:

Witnesses to corner location:

ED CAROW

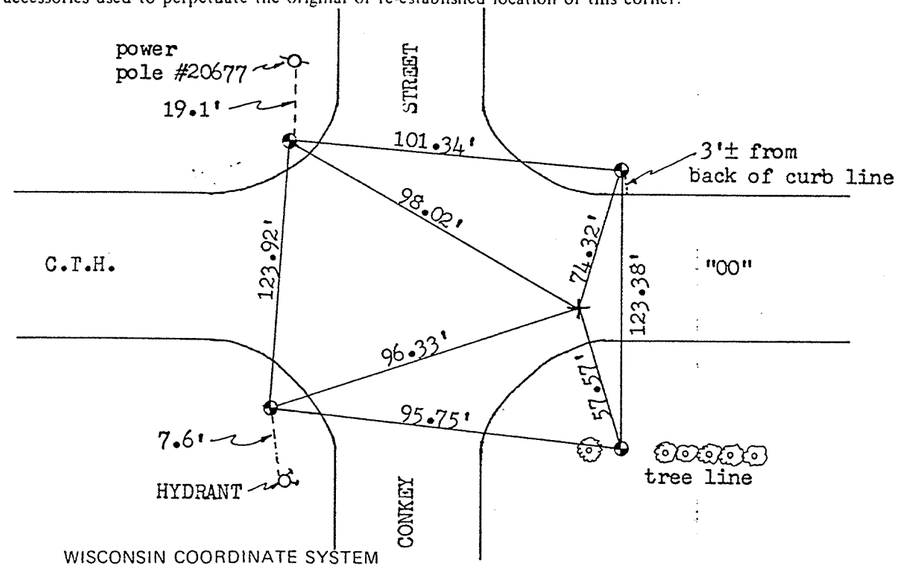
MATT SCHMIT

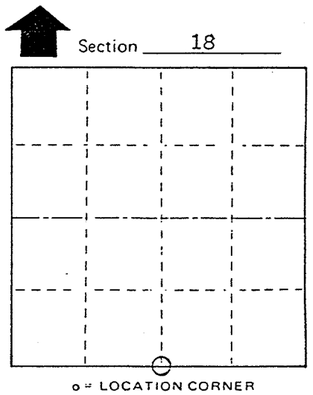
LEGEND:

● = BERNTSEN MONUMENT

+ = SAW CROSS

WISCONSIN
ROBERT F. REIDER
S-1251
APPLETON, WI
SURVEYOR





T 21 N R 18 E

WISCONSIN

SURVEY CONTROL ORDER

Horizontal	
Vertical	

WISCONSIN COORDINATE SYSTEM

	East (X)	North (Y)	Elevation (Z)	Zone
Corner				
Control Sta. Name				

~~XXXXXXXXX~~Town GRAND CHUTE

County of OUTAGAMIE

Drafted by DGV A934.18

BEAR GRAPHICS, INC.

U.S. PUBLIC LAND SURVEY MONUMENT RECORD

No. _____

I, ROBERT F. REIDER, do hereby certify that on the 29th day of OCTOBER 19 93, I found (evidence) (XXXXXXX) of the SOUTHEAST corner of SECTION 13, T 21 N, R 17 E. Fourth Principal Meridan, and I re-established said corner according to the Wisconsin Statutes as shown and described hereon.

Dated this 14th day of JANUARY 19 94.

Robt F. Reid
Signature

REGISTERED WISCONSIN LAND SURVEYOR
Title

CAROW LAND SURVEYING CO., INC.
P.O. BOX 1297, 1837 W. WIS. AVE.
APPLETON, WISCONSIN 54912-1297

History of original corner establishment:
SEE PREVIOUS CORNER TIE SHEET BY MICHAEL C. JENSEN, RLS-1746.

Description of corner evidence found:
CORNER PREVIOUSLY TIED AND RECORDED BY MICHAEL C. JENSEN AND DATED DECEMBER 20, 1988. DUE TO HIGHWAY RECONSTRUCTION, THE WITNESS MONUMENTS HAD TO BE RESET IN NEW LOCATIONS. SET NEW WITNESSES AND TIED OFF TO THE SAME CORNER LOCATION AS PER THE PREVIOUS TIE SHEET BY JENSEN. SET A SAW CUT CROSS AT THE ACTUAL CORNER LOCATION.

Description of corner and witness monuments, references and accessories used to perpetuate the original or re-established location of this corner:

Witnesses to corner location:

ED CAROW

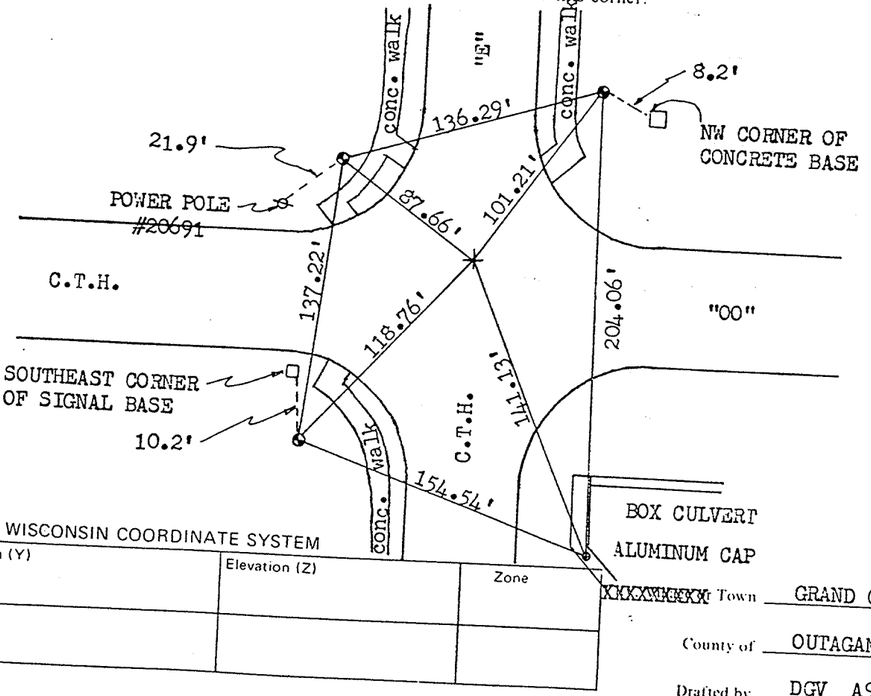
MATT SCHMIT

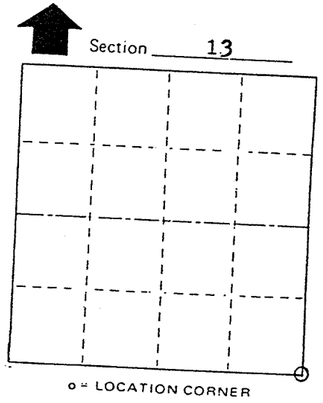
LEGEND:

● = BERNTSEN MONUMENT

+ = SAW CROSS

WISCONSIN
ROBERT F. REIDER
S-1251
APPLETON, WI
LAND SURVEYOR





T 21 N R 17 E

WISCONSIN

SURVEY CONTROL ORDER

Horizontal _____

Vertical _____

WISCONSIN COORDINATE SYSTEM

Corner / Control Sta. Name	East (X)	North (Y)	Elevation (Z)	Zone

XXXXXXXX Town GRAND CHUTE

County of OUTAGAMIE

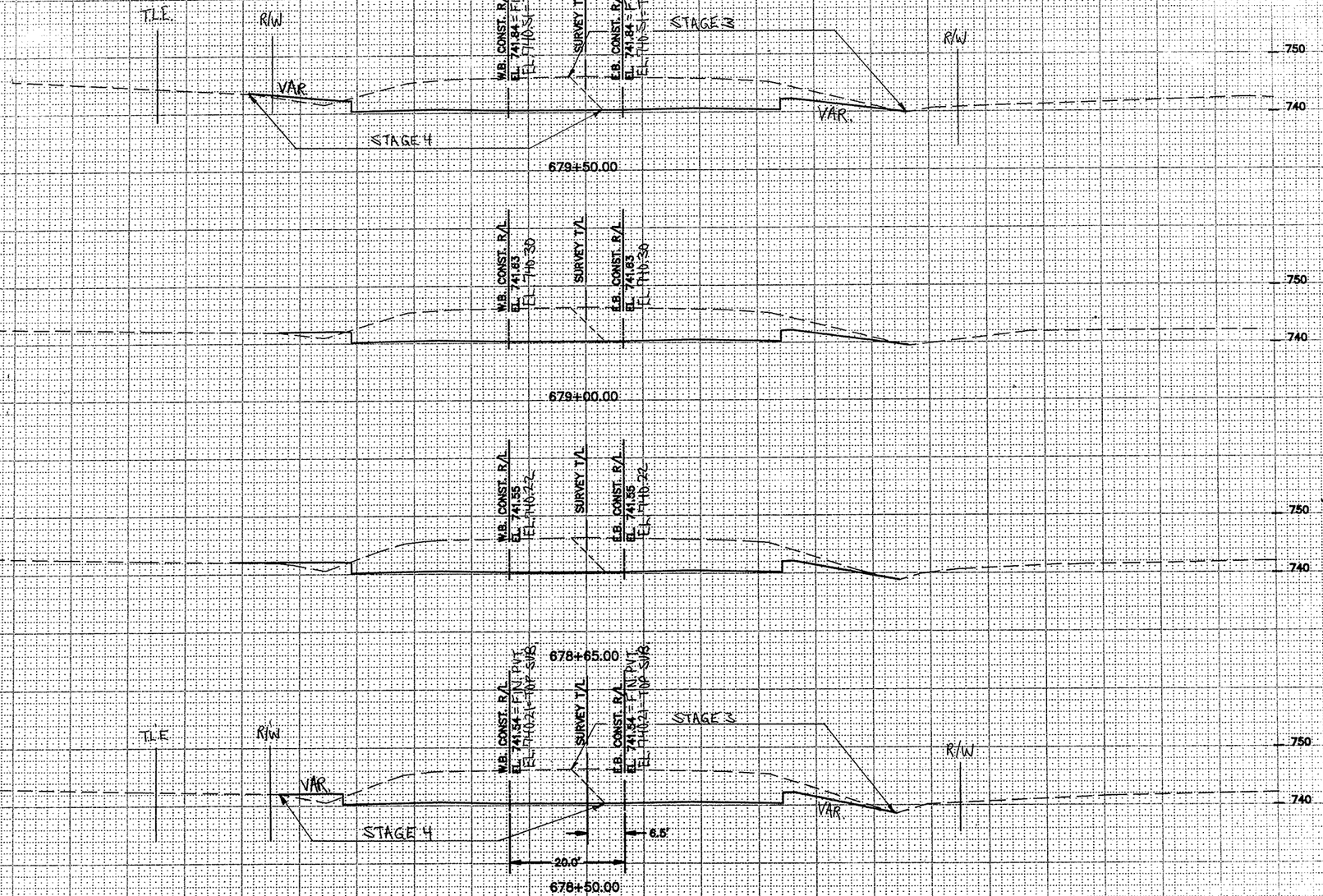
Drafted by DGV A934.18

BEAR GRAPHICS, INC.

STATE PROJECT NUMBER	SHEET NUMBER
4984-0-83	9.24

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

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL

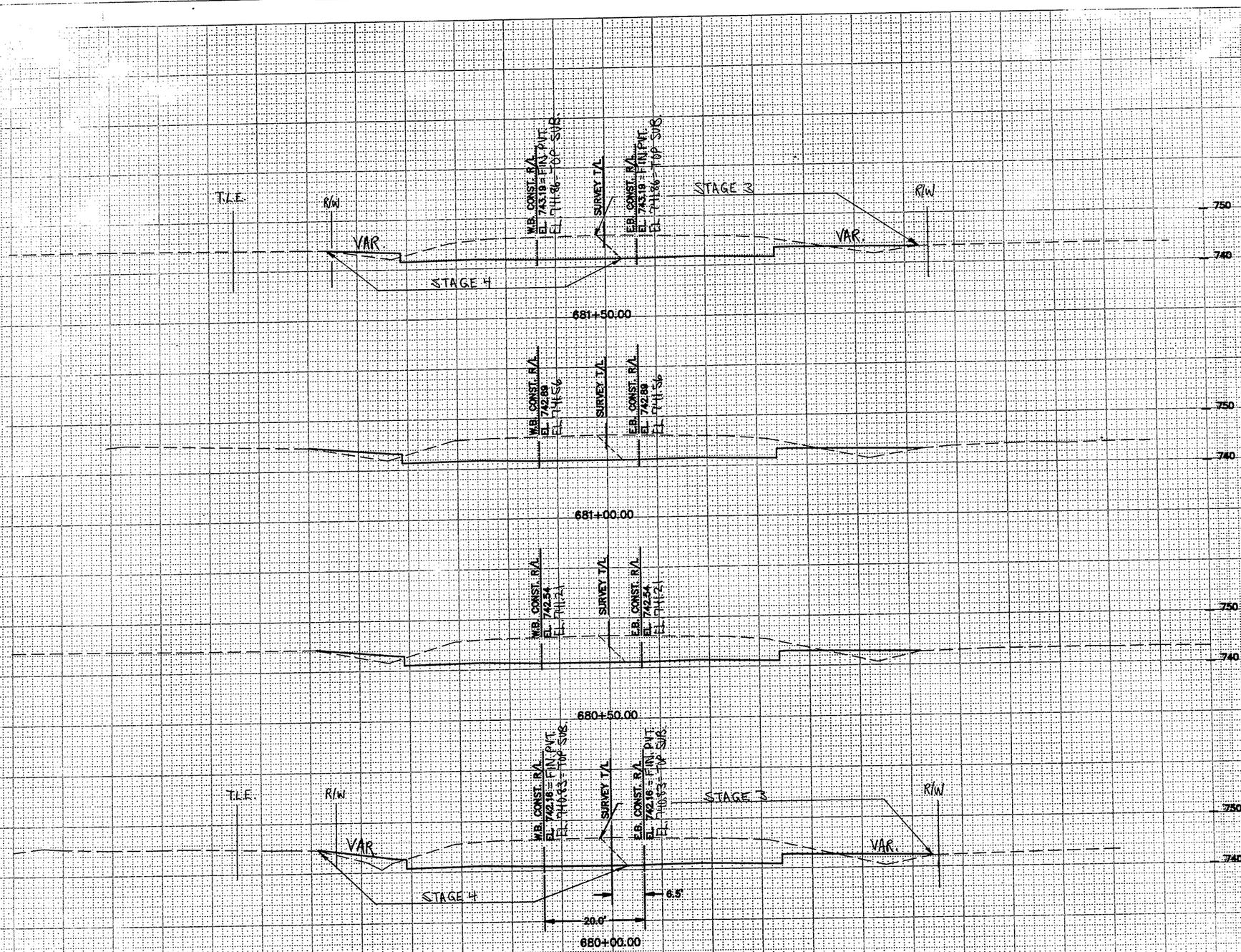


SHEET TOTAL

STATE PROJECT NUMBER	SHEET NUMBER
4984-0-83	9.25

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

STATION	DISTANCE	YARDAGE EXCAVATION	FILL



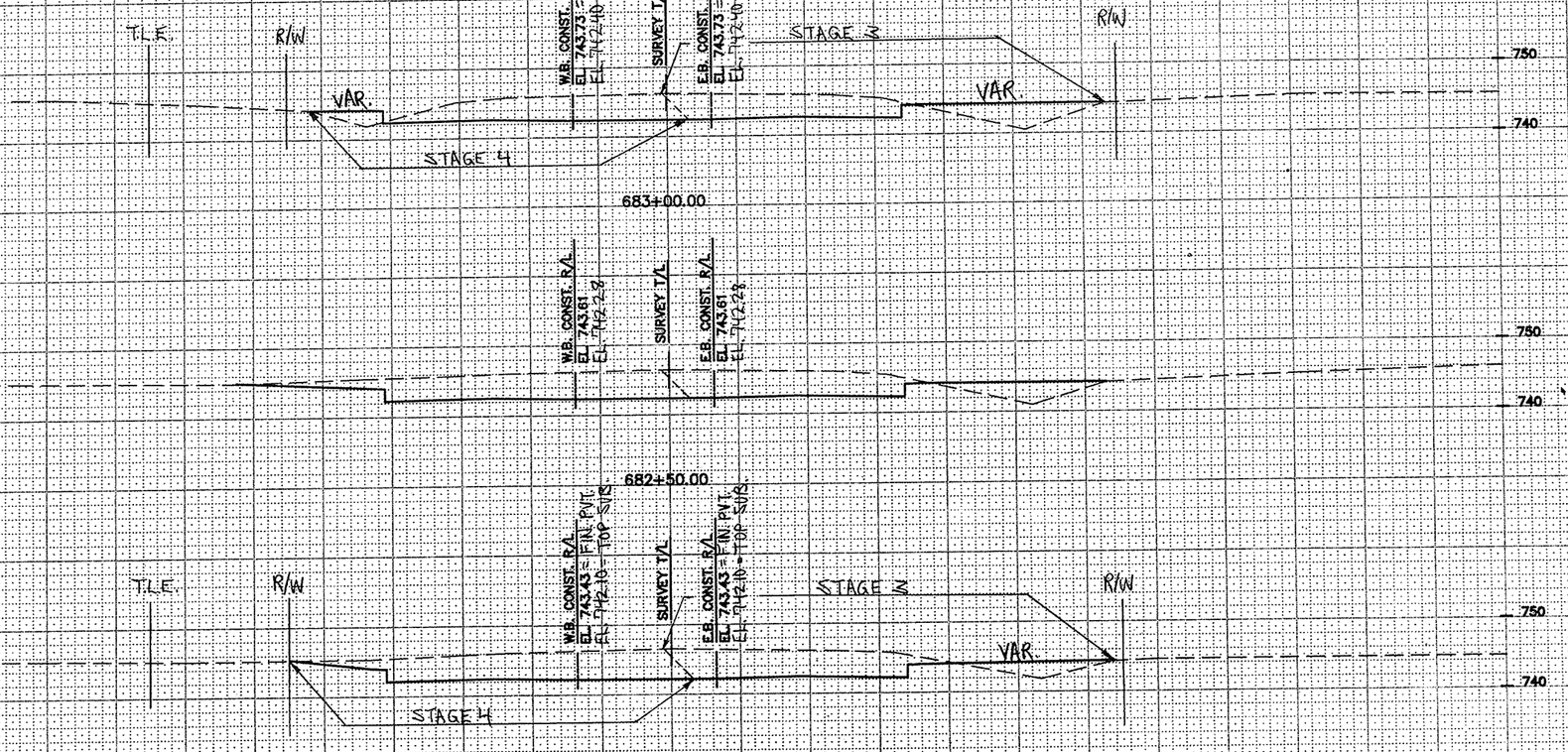
SHEET TOTAL

STATE PROJECT NUMBER: 4984-0-83

SHEET NUMBER: 9.26

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

STATION	DISTANCE	YARDAGE: EXCAVATION	YARDAGE: FILL



SHEET TOTAL

ATE PROJECT NUMBER: 4984-0-83 | SHEET NUMBER: 9.27

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

STATION	DISTANCE	YARDAGE EXCAVATION	FILL

684+85.00

E.B. CONST. R/L

MATCH EXISTING

R/W

T.L.E.

STAGE 3

VAR

E.B. CONST. R/L

684+50.00

750

740

750

740

R/W

W.B. CONST. R/L EL. 743.82 = FIN. PVT.

SURVEY T/L

E.B. CONST. R/L EL. 743.82 = FIN. PVT.

STAGE 3

750

740

MATCH EXISTING PAVEMENT SECTION

684+00.00

T.L.E.

W.B. CONST. R/L EL. 743.80 EL. 742.41

SURVEY T/L

E.B. CONST. R/L EL. 743.80 EL. 742.41

STAGE 3

T.L.E.

750

VAR.

740

STAGE 4

683+50.00

W.B. CONST. R/L EL. 743.73 = FIN. PVT. EL. 742.10 = TOP SUB.

SURVEY T/L

E.B. CONST. R/L EL. 743.73 = FIN. PVT. EL. 742.10 = TOP SUB.

T.L.E.

R/W

STAGE 3

R/W

750

VAR.

740

STAGE 4

6.5'

20.0'

683+00.00

SHEET TOTAL

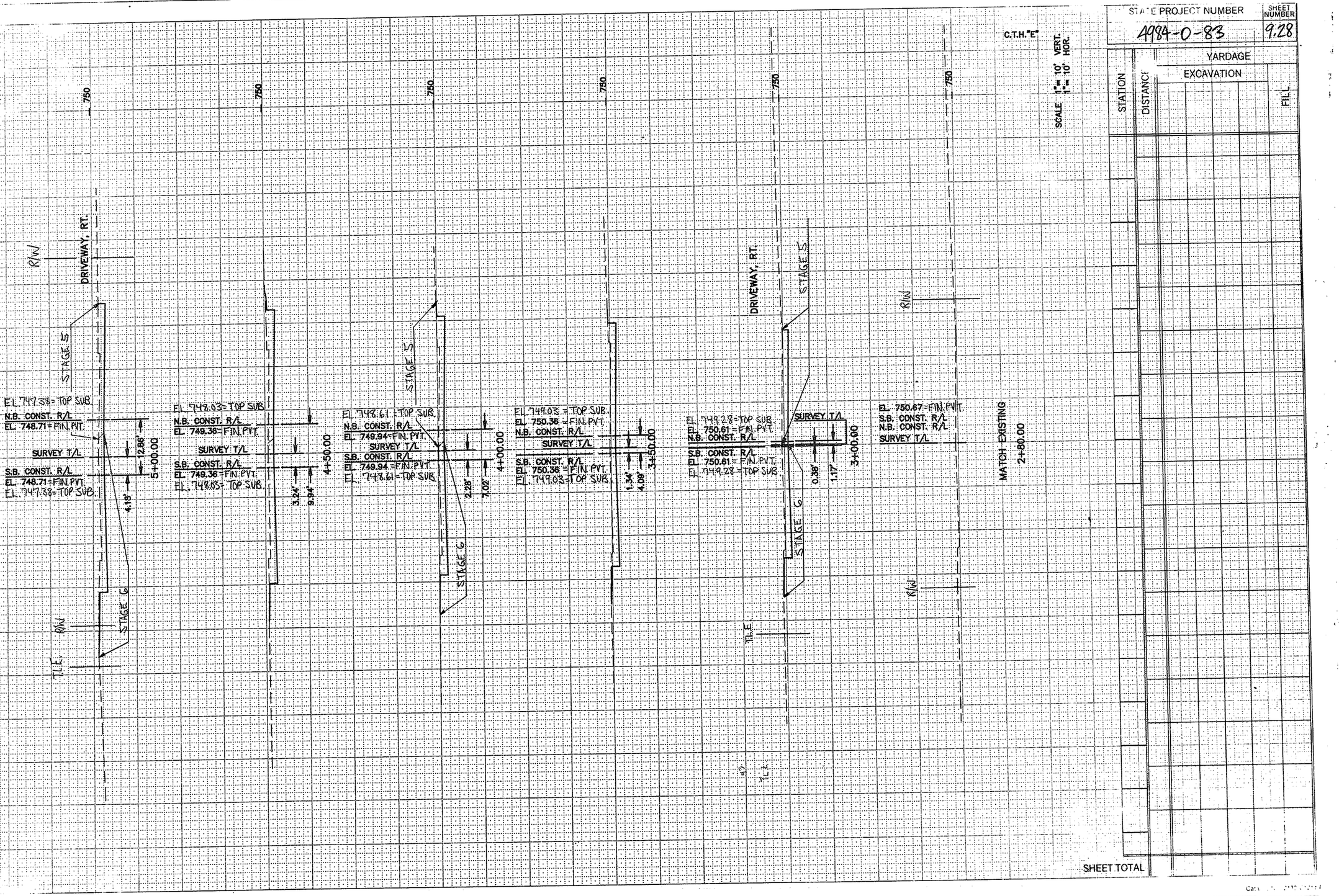
TELEPHONE POST

C.T.H. "E"

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

STATE PROJECT NUMBER	SHEET NUMBER
4984-0-83	9.28

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL



SHEET TOTAL

C.T.H. "E"

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

STATE PROJECT NUMBER	SHEET NUMBER
4984-0-83	9.29

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL

750 740 750 740 750 750 750 750

STAGE 5

N.B. CONST. R/L
EL. 746.96 = FIN. PVT.
EL. 745.63 = TOP SUB.

SURVEY T/L

S.B. CONST. R/L
EL. 746.96 = FIN. PVT.
EL. 745.63 = TOP SUB.

STAGE 6

R/W

7+42.00

N.B. CONST. R/L
EL. 746.89
EL. 745.56

SURVEY T/L

INTERSECTION OF LONGVIEW DRIVE
STA. 7+01.02 C.T.H. "E", SURVEY T/L=
STA. 10+00 LONGVIEW DRIVE

R/W

T.L.E.

7+00.00

N.B. CONST. R/L
EL. 747.04
EL. 745.71

SURVEY T/L

S.B. CONST. R/L
EL. 747.04
EL. 745.71

R/W

T.L.E.

6+80.00

N.B. CONST. R/L
EL. 747.23
EL. 745.90

SURVEY T/L

20.0'

6+22.00

S.B. CONST. R/L
EL. 747.23
EL. 745.90

8.5'

4:1

N.B. CONST. R/L
EL. 747.44
EL. 746.11

SURVEY T/L

18.71'

6+00.00

S.B. CONST. R/L
EL. 747.44
EL. 746.11

6.08'

4:1

R/W

STAGE 5

N.B. CONST. R/L
EL. 748.06 = FIN. PVT.
EL. 746.73 = TOP SUB.

SURVEY T/L

15.79'

6+50.00

S.B. CONST. R/L
EL. 748.06 = FIN. PVT.
EL. 746.73 = TOP SUB.

8.14'

STAGE 6

T.L.E.

R/W

SHEET TOTAL

Catalog No. 10-0127

STATE PROJECT NUMBER: 484-0-83

SHEET NUMBER: 9,30

C.T.H. "E"

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

STA. 9+70 C.T.H. "E", SURVEY T/L

645+95.72 C.T.H. "00", SURVEY T/L

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL
8+65.00			
8+50.00	15.00		
8+15.00	35.00		
8+00.00	15.00		
7+50.00	50.00		

N.B. CONST. R/L
EL. 748.02 = FIN. PVT.
EL. 746.69 = TOP SUB

S.B. CONST. R/L
EL. 748.02 = FIN. PVT.
EL. 746.69 = TOP SUB

STAGE 5

STAGE 6

N.B. CONST. R/L
EL. 747.88
EL. 746.55

S.B. CONST. R/L
EL. 747.88
EL. 746.55

N.B. CONST. R/L
EL. 747.50
EL. 746.17

S.B. CONST. R/L
EL. 747.50
EL. 746.17

N.B. CONST. R/L
EL. 747.34
EL. 746.01

S.B. CONST. R/L
EL. 747.34
EL. 746.01

N.B. CONST. R/L
EL. 746.99 = FIN. PVT.
EL. 745.66 = TOP SUB

S.B. CONST. R/L
EL. 746.99 = FIN. PVT.
EL. 745.66 = TOP SUB

SURVEY T/L

R/W

750

740

20.0'

6.5'

SHEET TOTAL

STATE PROJECT NUMBER: 4984-0-83

SHEET NUMBER: 9.31

C.T.H. "E"

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

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL

750

R/W

STAGE 5

N.B. CONST. R/L
EL. 750.55 = FIN. PVT.
EL. 749.22 = TOP SUB.

SURVEY T/L

S.B. CONST. R/L
EL. 750.55 = FIN. PVT.
EL. 749.22 = TOP SUB.

STAGE 6

12+50.00

N.B. CONST. R/L
EL. 750.25
EL. 748.92

S.B. CONST. R/L
EL. 750.25
EL. 743.92

12+00.00

TILE R/W

N.B. CONST. R/L
EL. 749.89
EL. 748.56

S.B. CONST. R/L
EL. 749.89
EL. 748.56

11+50.00

N.B. CONST. R/L
EL. 749.73
EL. 748.40

S.B. CONST. R/L
EL. 749.73
EL. 748.40

11+32.00

N.B. CONST. R/L
EL. 749.41
EL. 748.08

S.B. CONST. R/L
EL. 749.41
EL. 748.08

11+00.00

N.B. CONST. R/L
EL. 749.21 = FIN. PVT.
EL. 747.88 = TOP SUB.

S.B. CONST. R/L
EL. 749.21 = FIN. PVT.
EL. 747.88 = TOP SUB.

20.0'

10+82.00

6.5'

SHEET TOTAL

C.T.H. "E"

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

STATE PROJECT NUMBER	SHEET NUMBER
4984-0-83	9.32

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL

750

T.L.E.

R/W

STAGE 5

N.B. CONST. R/L
EL. 751.45 = FIN. PVT.
EL. 750.12 = TOP SUB.

SURVEY T/L

18.25'

13+75.00

S.B. CONST. R/L
EL. 751.45 = FIN. PVT.
EL. 750.12 = TOP SUB.

6.5'

STAGE 6

750

R/W

N.B. CONST. R/L
EL. 751.22
EL. 749.89

SURVEY T/L

18.12'

13+50.00

S.B. CONST. R/L
EL. 751.22
EL. 749.89

6.5'

750

T.L.E.

R/W

N.B. CONST. R/L
EL. 751.02
EL. 749.69

SURVEY T/L

20.0'

13+25.00

S.B. CONST. R/L
EL. 751.02
EL. 749.69

6.5'

750

DRIVEWAY, RT.

N.B. CONST. R/L
EL. 750.85
EL. 749.52

SURVEY T/L

13+00.00

S.B. CONST. R/L
EL. 750.85
EL. 749.52

750

R/W

STAGE 5

N.B. CONST. R/L
EL. 750.58 = FIN. PVT.
EL. 749.25 = TOP SUB.

SURVEY T/L

20.0'

12+55.00

S.B. CONST. R/L
EL. 750.58 = FIN. PVT.
EL. 749.25 = TOP SUB.

6.5'

STAGE 6

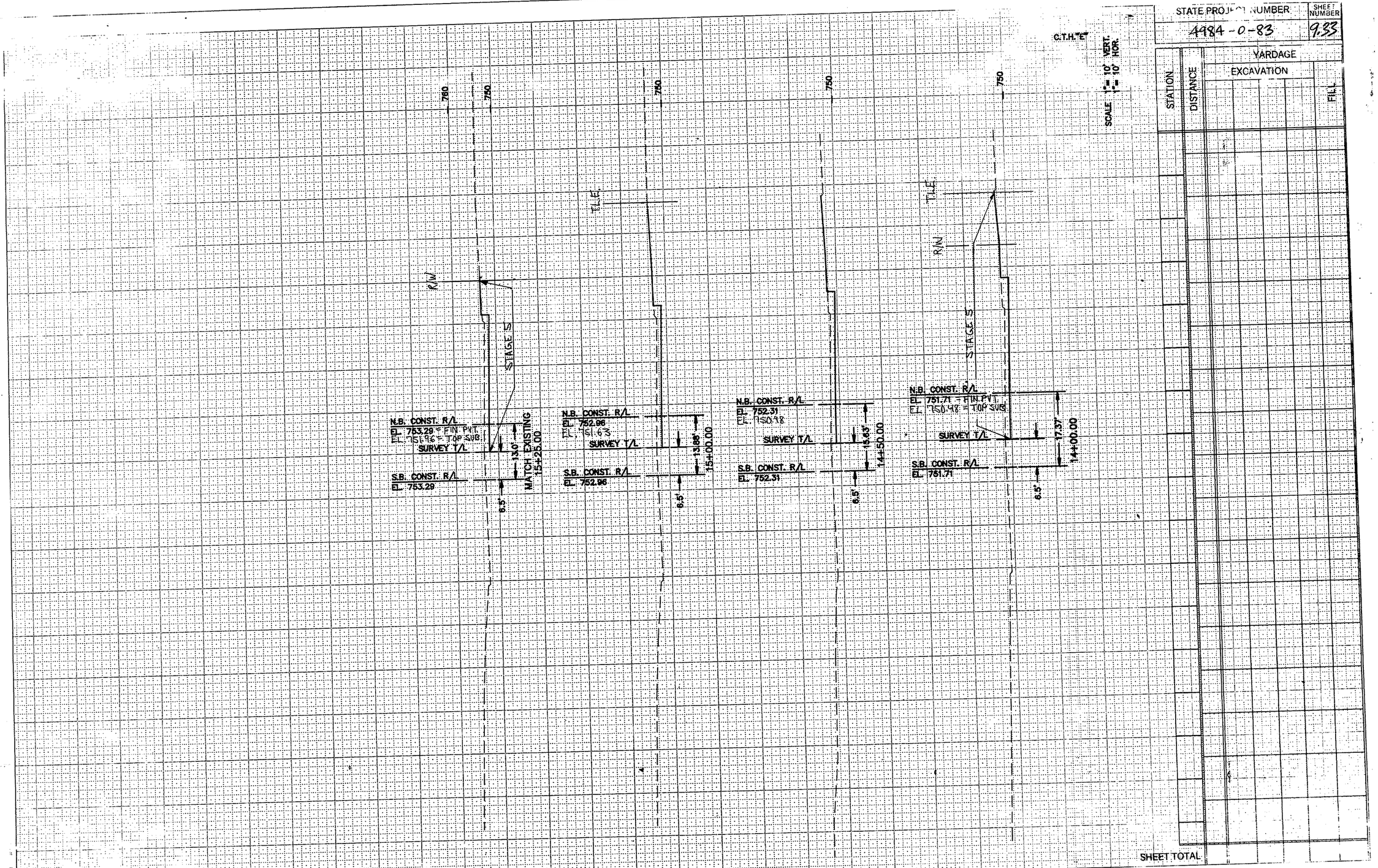
SHEET TOTAL

C.T.H. "E"

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

STATE PROJECT NUMBER	SHEET NUMBER
4984-0-83	9.33

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL



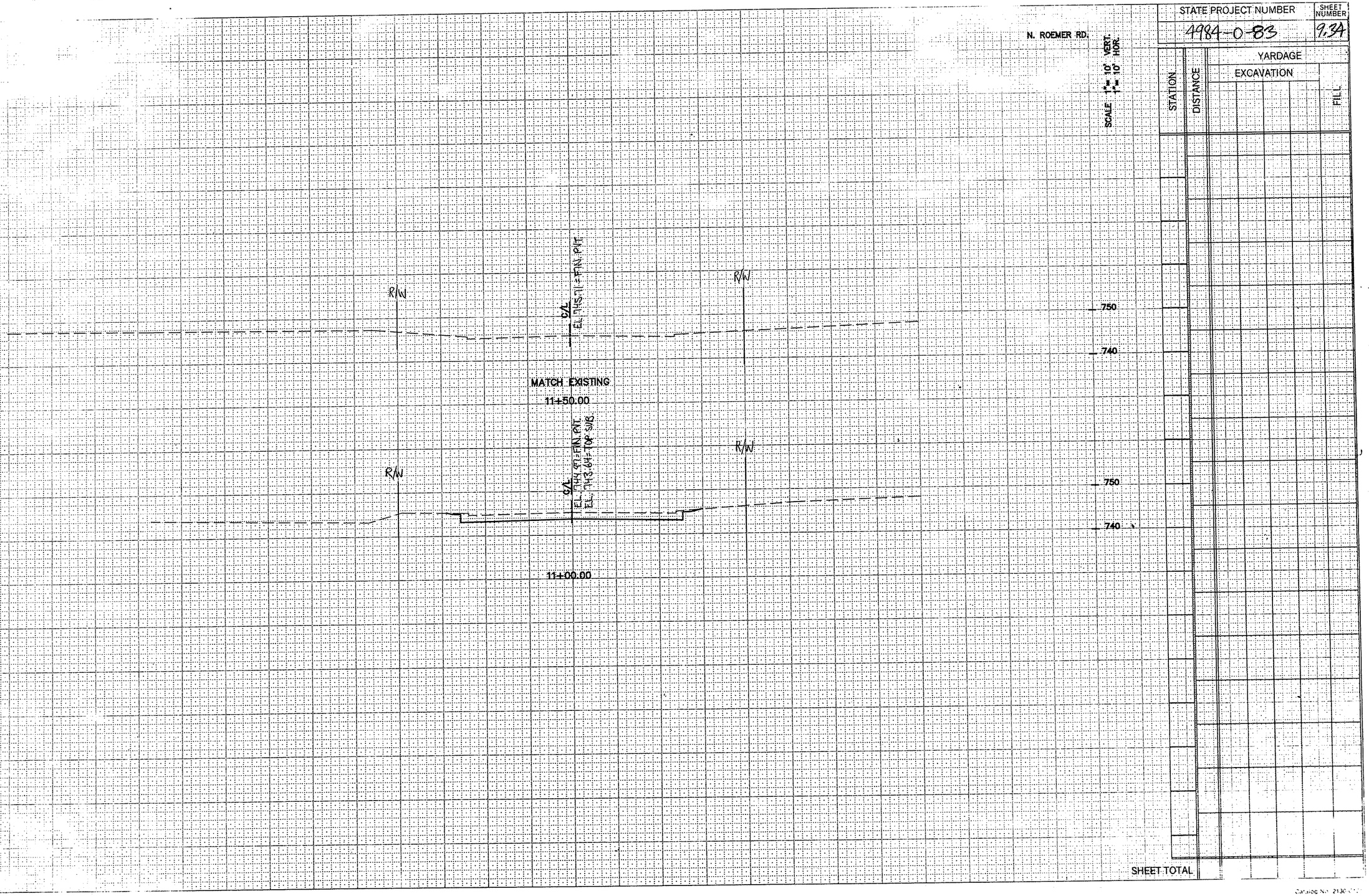
SHEET TOTAL

N. ROEMER RD.

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

STATE PROJECT NUMBER	SHEET NUMBER
4984-0-83	9.34

STATION	DISTANCE	YARDAGE EXCAVATION	FILL



SHEET TOTAL

STATE PROJECT NUMBER 4984-0-83

SHEET NUMBER 9.35

S. CONKEY STREET

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

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL

R/W

C/L EL. 743.30 = FIN. PVT. EL. 741.17 = TOP SWR

R/W

T.L.E.

750

740

9+07.00

T.L.E.

C/L EL. 743.12

750

740

9+00.00

C/L EL. 742.94 = FIN. PVT. EL. 741.61 = TOP SWR

740

730

8+50.00

R/W

C/L EL. 741.26 = FIN. PVT.

R/W

740

730

MATCH EXISTING

8+25.00

SHEET TOTAL

N. CONKEY STREET

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

STATE PROJECT NUMBER: 498A-0-83

SHEET NUMBER: 9.36

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL

R/W

℄ EL. 745.08 = FIN. PVT.

R/W

MATCH EXISTING

11+85.00

750

740

℄ EL. 745.01
EL. 743.68

750

740

11+50.00

R/W

℄ EL. 744.30 = FIN PVT.
EL. 742.90 = TOP SUB.

R/W

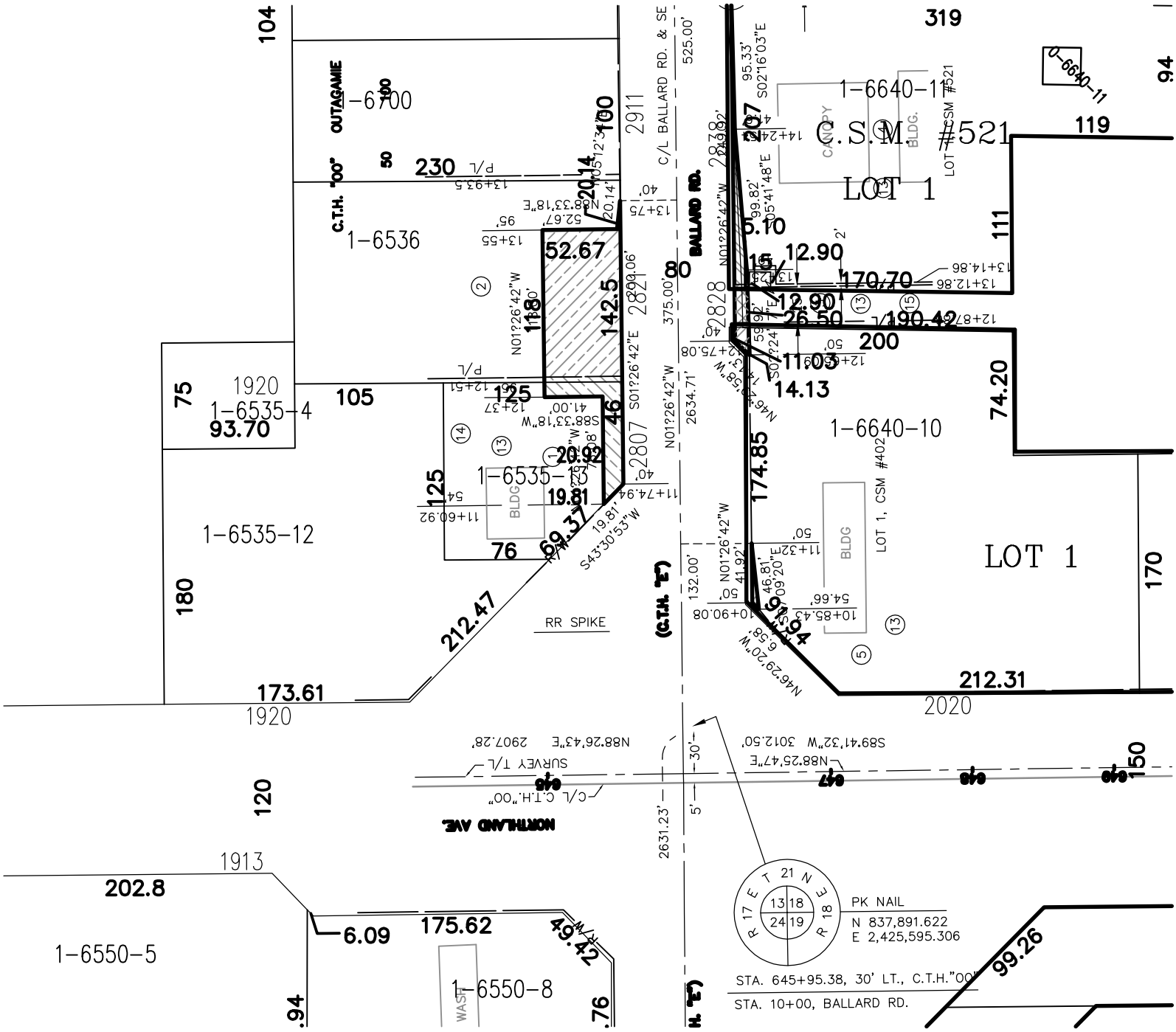
T.L. FT.

750

740

11+00.00

SHEET TOTAL


C.S.M. #521
LOT 1
LOT 1
1-6640-10
1-6640-11
1-6700
1-6536
1-6535-4
1-6535-5
1-6535-12
1-6550-5
1-6550-8
1920
1913
2020
C/L BALLARD RD. & SE
BALLARD RD.
C.T.H. "00"
OUTAGAMIE
NORTHLAND AVE.
RR SPIKE
PK NAIL
N 837,891.622
E 2,425,595.306
STA. 645+95.38, 30' LT., C.T.H."00"
STA. 10+00, BALLARD RD.
T 21 N
R 17 E
R 18 E
13 18
24 19
BLDG.
CANOPY
LOT 1, CSM #521
LOT 1, CSM #402
SURVEY T/L
C/L C.T.H."00"
N88°26'43"E 2907.28'
S89°41'32"W 3012.50'
N88°25'47"E
104
319
525.00'
95.33'
S02°16'03"E
99.82'
S05°41'48"E
207
119
94
111
5.10
12.90
170.70
190.42
200
74.20
14.13
11.03
174.85
170
212.47
173.61
180
75
105
125
93.70
46
142.5
52.67
118
20.14
230
100
50
69.37
76
20.92
19.81
54.66'
46.81'
132.00'
41.92'
99.26
202.8
175.62
6.09
49.41
.94
.76
120
150
2631.23'
5'
30'
2911
2828
2821
2807
2634.71'
N01°26'42"W
S01°26'42"E
S88°33'18"W
N43°30'53"E
S43°30'53"W
N46°29'20"W
N09°20'58"E
N01°24'17"E
S02°24'17"W
S88°33'18"E
WAST

J 11999 I 19

TY DEED **Document No.** 1027341
Exempt from fee: s. 77.25(12)

TURE, made by Keith M. Buxton & Carol E. Buxton

veys and warrants the property described below to Outagamie County

e sum of Five Thousand Four Hundred Forty &00/100 5,440.00)

med in this deed may make an appeal from the amount of compensation within six e date of recording of this deed as set forth in s. 32.05(2a) Wisconsin Statutes. For any such appeal, the amount of compensation stated on the deed shall be treated nd the date the deed is recorded shall be treated as the date of taking and the date

having an interest of record in the property: Valley Northern Bank

This space reserved for recording data

REGISTER'S OFFICE
OUTAGAMIE COUNTY, WI
RECEIVED AND RECORDED ON

FEB 5 1992

ENTERED

AT 2 O'CLOCK P M

JACKET 11999 IMAGE 19

Grace Herb NS

Return to: Outagamie County Highway Commission

ion This (is) (is not) homestead property.

FEE
12
EXEMPT

E. 10.00 form

le in and to the following tract of land in the City of Appleton, Outgamie Wisconsin, described as:
t land of the owner in the SE 1/4 of the SE 1/4 of Section 13, all in p 21 North, Range 17 East, lying within the following described traverse:
ing at the Southeast corner of said Section 13;
North 01°26'42" West 375.00 feet along the East line of said SE 1/4 Section he centerline station 13+75 of Ballard Road (C.T.H. "E");
South 88°33'18" West 40.00 feet to the present West Right-of-Way line of Road (C.T.H. "E") and the Point of Beginning;
South 01°26'42" East 200.06 feet along said Right-of-Way;
South 43°30'53" West 19.81 feet along said Right-of-Way;
North 01°26'42" West 76.08 feet to a point being South 88°33'18" West 54 om centerline station 12+37, Ballard Road (C.T.H. "E");
South 88°33'18" West 41.00 feet;
North 01°26'42" West 118.00 feet;
North 88°33'18" East 52.67 feet;
North 05°12'34" East 20.14 feet to the Point of Beginning.
w Right-of-way contains 0.04 acres, more or less or 1730 square feet.

this 23rd day of January 1992.

Keith M. Buxton
(Signature)

M. Buxton
(Print Name)

(Signature)

(Print Name)

x Carole E. Buxton
(Signature)

Carol E. Buxton
(Print Name)

(Signature)

(Print Name)

Subscribed and sworn to before me this date 1/23/92

(Signature, Notary Public, State of Wisconsin)

Michael A. Marsden

J 12282 I 9

TY DEED **Document No.** 1034682
Exempt from fee: s. 77.25(12)

TURE, made by Francis D. & Virginia A. Danielski

veys and warrants the property described below to Outagamie County

e sum of Seventeen Thousand Three Hundred Fifty /100 Dollars ($17,350.00)

med in this deed may make an appeal from the amount of compensation within six he date of recording of this deed as set forth in s. 32.05(2a) Wisconsin Statutes. For any such appeal, the amount of compensation stated on the deed shall be treated nd the date the deed is recorded shall be treated as the date of taking and the date

having an interest of record in the property: Valley Northern
ssociated Bank, NA

This space reserved for recording data

REGISTER'S OFFICE
OUTAGAMIE COUNTY, WI
RECEIVED AND RECORDED ON

APR 10 1992

AT 3 O'CLOCK P M

JACKET 12282 IMAGE 9

Grace Herb

Return to: Outagamie County
Highway Commission

E: 10.00

tion This (is) (is not) homestead property.

le in and to the following tract of land in the City of Appleton, Outgamie Wisconsin, described as:
t land of the owner in the SE 1/4 of the SE 1/4 of Section 13, all in p 21 North, Range 17 East, lying within the following described traverse:
ing at the Southeast corner of said Section 13;
North 01°26'42" West 375.00 feet along the East line of said SE 1/4 Section he centerline station 13+75 of Ballard Road (C.T.H. "E");
South 88°33'18" West 40.00 feet to the present West Right-of-Way line of Road (C.T.H. "E") and the Point of Beginning;
South 01°26'42" East 200.06 feet along said Right-of-Way;
South 43°30'53" West 19.81 feet along said Right-of-Way;
North 01°26'42" West 76.08 feet to a point being South 88°33'18" West 54 om centerline station 12+37, Ballard Road (C.T.H. "E");
South 88°33'18" West 41.00 feet;
North 01°26'42" West 118.00 feet;
North 88°33'18" East 52.67 feet;
North 05°12'34" East 20.14 feet to the Point of Beginning.
w Right-of-way contains 0.132 acres, more or less or 5750 square feet.

FEE # 12 EXEMPT

this 5th day of March, 1992.

Francis D. Danielski
(Signature)

s D. Danielski
(Print Name)

(Signature)

(Print Name)

Virginia A. Danielski
(Signature)

Virginia A. Danielski
(Print Name)

(Signature)

(Print Name)

Subscribed and sworn to before me this date 3/5/92

Michael A. Marsden
(Signature, Notary Public, State of Wisconsin)

Michael A. Marsden
(Print or Type Name, Notary Public, State of Wisconsin)

15140

J 12778 1 21

REVISED 01-07-1992

WARRANTY DEED

RE3004S 1089

Document No. 1047922

Exempt from fee: s. 77.25(12)

THIS INDENTURE, made by Appleton Labor Temple Assoc.
a Wisconsin non-profit corporation

grantor(s) conveys and warrants the property described below to Outagamie County

grantee, for the sum of Nine hundred sixty two & no/100 dollars ($962.00)

Any person named in this deed may make an appeal from the amount of compensation within six months after the date of recording of this deed as set forth in s. 32.05(2a) Wisconsin Statutes. For the purpose of any such appeal, the amount of compensation stated on the deed shall be treated as the award, and the date the deed is recorded shall be treated as the date of taking and the date of evaluation.

Other persons having an interest of record in the property: _____

This space reserved for recording data

OUTAGAMIE COUNTY
RECEIVED FOR RECORD

1992 AUG 13 A 8:37

GRACE MERO
REGISTER OF DEEDS

Return to: Outagamie County
Highway Commission

E. 10.00 no form

Legal Description This (is) (is not) homestead property.

Fee Title in and to the following tract of land in Outagamie County, Wisconsin, described as:
All that land of the owner in the SW1/4 of the SW1/4 of Section 18, all in Township 21 North, Range 18 East, being a part of Lot 1 of Certified Survey Maps 402 and 521 and lying within the following described traverse:
commencing at the Southwest corner of said Section 18;
Thence N01°26'42"W 525.00 feet along the West line of said SW1/4 Section 18 to the centerline station 15+25 of Ballard Road (C.T.H. "E");
Thence N88°33'18"E 40.00 feet to the present East Right-of-Way line of Ballard Road (C.T.H. "E") and the Point of Beginning;
Thence S01°26'42"E 249.92 feet along said Right-of-Way;
Thence S46°29'58"E (Recorded as N45°12'W Lot 1 CSM 402) 14.13 feet along said Right-of-Way;
Thence N02°24'17"W 59.92 feet to a point being N88°33'18"E 49 feet from centerline station 13+25, Ballard Road (C.T.H. "E");
Thence N05°41'48"W 99.82 feet;
Thence N02°16'03"W 95.33 feet;
Thence N04°01'17"W 5.14 feet to the Point of Beginning.
Said new Right-of-Way contains 0.006 acres, more or less or 254 square feet.

FEE # 12 EXEMPT

Melvin C Klarner (Signature)
Appleton Labor Temple Association (Print Name)
MELVIN C KLARNER (Signature)
Ronald J. Knaack (Print Name)
Ronald J. Knaack

Joseph A Bushman (Signature)
JOSEPH A BUSHMAN (Print Name)
Randall Hanus (Signature)
RANDALL HANUS (Print Name)

Subscribed and sworn to before me this date 8/17/92
Michael A Marsden (Signature, Notary Public, State of Wisconsin)
Michael A. Marsden (Print or Type Name, Notary Public, State of Wisconsin)
6/19/94 (Date Commission Expires)

(SEAL)

Project 5814 CTH "OO" This instrument was drafted by the Parcel No. 3

McMahon Associates, Inc.

J 12109 P 31 — 07-07-1992 Revised

15/40

WARRANTY DEED **Document No. 1030231**

RE3004S 1089 Exempt from fee: s. 77.25(12)

THIS INDENTURE, made by F.J. Piette Company

grantor(s) conveys and warrants the property described below to Outagamie County

grantee, for the sum of Two thousand three hundred ninety-eight dollars & no/199 dollars ($2,398.00)

Any person named in this deed may make an appeal from the amount of compensation within six months after the date of recording of this deed as set forth in s. 32.05(2a) Wisconsin Statutes. For the purpose of any such appeal, the amount of compensation stated on the deed shall be treated as the award, and the date the deed is recorded shall be treated as the date of taking and the date of evaluation.

Other persons having an interest of record in the property: Bank One of Appleton, NA

This space reserved for recording data

REGISTER'S OFFICE
OUTAGAMIE COUNTY, WI
RECEIVED AND RECORDED ON

MAR 3 1992

AT 2 O'CLOCK P M

JACKET 12109 IMAGE 31

Grace Herb

Return to: Outagamie County Highway Commission

6/1000 form

Legal Description This (is) (is not) homestead property.

Fee Title in and to the following tract of land in Outagamie County, Wisconsin, described as:
All that land of the owner in the SW1/4 of the SW1/4 of Section 18, all in Township 21 North, Range 18 East, being a part of Lot 1 of Certified Survey Maps 402 and 521 and lying within the following described traverse:
commencing at the Southwest corner of said Section 18;
Thence N01°26'42"W 525.00 feet along the West line of said SW1/4 Section 18 to the centerline station 15+25 of Ballard Road (C.T.H. "E");
Thence N88°33'18"E 40.00 feet to the present East Right-of-Way line of Ballard Road (C.T.H. "E") and the Point of Beginning;
Thence S01°26'42"E 249.92 feet along said Right-of-Way;
Thence S46°29'58"E (Recorded as N45°12'W Lot 1 CSM 402) 14.13 feet along said Right-of-Way;
Thence N02°24'17"W 59.92 feet to a point being N88°33'18"E 49 feet from centerline station 13+25, Ballard Road (C.T.H. "E");
Thence N05°41'48"W 99.82 feet;
Thence N02°16'03"W 95.33 feet;
Thence N04°01'17"W 5.14 feet to the Point of Beginning.
Said new Right-of-Way contains 0.016 acres, more or less or 716 square feet.
Dated this 2nd day of March 1992.

FEE # 12. EXEMPT

Fred Piette
(Signature)

F.J. Piette Company (Fred Piette)
(Print Name)

(Signature)

(Print Name)

(Signature)

(Print Name)

(Signature)

(Print Name)

(SEAL)

Subscribed and sworn to before me this date 3/2/93

Michael A. Marsden
(Signature, Notary Public, State of Wisconsin)

Michael A. Marsden
(Print or Type Name, Notary Public, State of Wisconsin)

June 19, 1994
(Date Commission Expires)

Project 5814 CTH "OO"

This instrument was drafted by the McMahon Associates, Inc.

Parcel No. 4

J 12187 P 50

15/20

WARRANTY DEED

RE3004S 1089

Document No. 1032277

Exempt from fee: s. 77.25(12)

This space re

REGISTER'S OFFICE
OUTAGAMIE COUNTY, WI
RECEIVED AND RECORDED ON

ENTERED

MAR 24 1992

at 8:30 o'clock A M

JACKET 12187 IMAGE 50-51

Grace Herb
me

THIS INDENTURE, made by Kristine Hietpas, Carol Kratzer a/k/a Carol E. Kratzer, Steven Kratzer, d/b/a KFP, and Katherine Reynolds a/k/a Katherine M. Reynolds a Wisconsin partnership grantor(s) conveys and warrants the property described below to Outagamie County grantee, for the sum of Eight and no/100 dollars ($800.00)

Any person named in this deed may make an appeal from the amount of compensation within six months after the date of recording of this deed as set forth in s. 32.05(2a) Wisconsin Statutes. For the purpose of any such appeal, the amount of compensation stated on the deed shall be treated as the award, and the date the deed is recorded shall be treated as the date of taking and the date of evaluation.

Other persons having an interest of record in the property: Valley Bank

Return to: Outagamie County
Highway Commission

6/1200

Legal Description This (is) (is not) homestead property.

Fee Title in and to the following tract of land in the City of Appleton, Outgamie County, Wisconsin, described as:
All that land of the owner in the SW 1/4 of the SW 1/4 of Section 18, all in Township 21 North, Range 18 East, being a part of Lot 1 of Certified Survey Map 402 and lying within the following described traverse:
Commencing at the Southwest corner of said Section 18;
Thence North 01°26'42" West 132.00 feet along the West line of said SW 1/4 Section 18 to the centerline station 11+32 of Ballard Road (C.T.H. "E");
Thence North 88°33'18" East 50.00 feet to the present East Right-of-Way line of Ballard Road (C.T.H. "E") and the Point of Beginning;
Thence South 01°26'42" East 41.92 feet along said Right-of-Way;
Thence South 46°29'20" East 6.58 feet along said Right-of-Way;
Thence North 07°09'20" West 46.81 feet to the Point of Beginning.
Said new Right-of-Way contains 0.002 acres, more or less or 98 square feet.

CONTINUED ON REVERSE SIDE:

DATED THIS 3RD DAY OF MARCH, 1992.

Kristine Hietpas
(Signature)

Kristine Hietpas
(Print Name)

Katherine Reynolds
(Signature)

Katherine Reynolds a/k/a Katherine M. Reynolds
(Print Name)

Carol Kratzer
(Signature)

Carol Kratzer a/k/a Carol E. Kratzer
(Print Name)

Steven Kratzer
(Signature)

Steven Kratzer
(Print Name)

Subscribed and sworn to before me this date 3/21/92

Michael A. Marsden
(Signature, Notary Public, State of Wisconsin)

Michael A. Marsden
(Print or Type Name, Notary Public, State of Wisconsin)

June 19, 1994
(Date Commission Expires)

(SEAL)

Project 5814 CTH "OO"

This instrument was drafted by the McMahon Associates, Inc.

Parcel No. 5

J 12139 P 50

WARRANTY DEED
RE3004S 1089

Document No. 1031035
Exempt from fee: s. 77.25(12)

THIS INDENTURE, made by Community First Credit Union, a Wisconsin Corporation

grantor(s) conveys and warrants the property described below to Outagamie County

grantee, for the sum of Five thousand three-hundred ninety-two and no/100 dollars ($5,392.00)

Any person named in this deed may make an appeal from the amount of compensation within six months after the date of recording of this deed as set forth in s. 32.05(2a) Wisconsin Statutes. For the purpose of any such appeal, the amount of compensation stated on the deed shall be treated as the award, and the date the deed is recorded shall be treated as the date of taking and the date of evaluation.

Other persons having an interest of record in the property: _____

This space reserved for recording data
REGISTER'S OFFICE
OUTAGAMIE COUNTY, WI
RECEIVED AND RECORDED ON

MAR 11 1992

ENTERED

AT 10 O'CLOCK a M

JACKET 12139 IMAGE 50

Grace Herb mal

Return to: Outagamie County Highway Commission

10.00 parm

Legal Description This (is) (is not) homestead property.

Fee Title in and to the following tract of land in the City of Appleton, Outgamie County, Wisconsin, described as:
All that land of the owner in the NE 1/4 of the NE 1/4 of Section 24, all in Township 21 North, Range 17 East, lying within the following described traverse:
Commencing at the Northeast corner of said Section 24;
Thence South 01°14'08" East 720.00 feet along the East line of said NE 1/4 Section 19 to the centerline station 2+80 of Ballard Road (C.T.H. "E");
Thence South 88°45'52" West 33.00 feet to the present West Right-of-Way line of Ballard Road (C.T.H. "E") and the Point of Beginning;
Thence North 01°14'08" West 367.82 feet along said Right-of-Way;
Thence North 46°23'42" West 13.34 feet along said Right-of-Way;
Thence South 02°40'18" East 377.34 feet to the Point of Beginning.
Said new Right-of-Way contains 0.040 acres, more or less or 1739 square feet.

FEE
12
EXEMPT

Maurice M Dresang
Maurice Dresang (Signature)
Community First Credit Union, A WI Corp.
(Print Name)

(Signature)

(Print Name)

(Signature)

(Print Name)

(Signature)

(Print Name)

Subscribed and sworn to before me this date 3 / 3 / 92

(Signature, Notary Public, State of Wisconsin)

Michael A. Marsden
(Print or Type Name, Notary Public, State of Wisconsin)

June 19, 1994
(Date Commission Expires)

(SEAL)

Project 5814 CTH "OO"

This instrument was drafted by the
McMahon Associates, Inc.

Parcel No. 7

DOCUMENT NO. 1029613

QUIT CLAIM DEED
STATE OF WISCONSIN - FORM 14

J 12083 | 6

THIS SPACE RESERVED FOR RECORDING DATA

Parcel #8

REGISTER'S OFFICE
OUTAGAMIE COUNTY, WI
RECEIVED AND RECORDED ON

FEB 27 1992

AT 12 Noon O'CLOCK M

JACKET 12083 IMAGE 6

Grace Herb

RETURN TO

Outagamie County Highway Department (904)

E. 10.00

This indenture, made by City of Appleton, a Wisconsin municipal corporation, a ~~Corporation~~ duly organized and existing under and by virtue of the laws of the State of Wisconsin, grantor, of Outagamie County, Wisconsin, hereby quit-claims to Outagamie County, a Wisconsin municipal corporation grantee, of Outagamie County, Wisconsin, for the sum of One Dollar and other good and valuable consideration ($1.00) the following tract of land in Outagamie County, State of Wisconsin:

Fee Title in and to the following tract of land in the City of Appleton, Outagamie County, Wisconsin described as:
All that land of the owner in the SW 1/4 of the SW 1/4 of Section 18, all in Township 21 North, Range 18 East, lying within the following described traverse:
Commencing at the Southwest corner of said Section 18;
Thence North 89°41'32" East 1611.42 feet along the South line of said SW 1/4 Section 18;
Thence North 01°14'38" West 60.63 feet to the present North Right of Way line of CTH "OO" (West right of way line Roemer Road) being station 662+07.20 CTH "OO" and the Point of Beginning;
Thence continue North 01°14'38" West 15.00 feet along present West Right of Way line Roemer Road;
Thence South 43°35'27" West 21.27 feet to the present North Right of Way line of CTH "OO";
Thence North 88°25'32" East 15.00 feet along said Right of Way to the Point of Beginning.

Said new Right of Way contains 0.003 acres, more or less or 112 square feet.

Grantor deeds the above described land to Grantee solely for highway purposes.

FEE # 24 13
EXEMPT

In Witness Whereof, the said grantor has caused these presents to be signed by Dorothy C. Johnson, Mayor, ~~President~~ and countersigned by Jadell K. Ferge, Clerk, its ~~Secretary~~ at Appleton, Wisconsin, and its corporate seal to be hereunto affixed this 21st day of February, A. D., 19 92

SIGNED AND SEALED IN PRESENCE OF

CITY OF APPLETON
Corporate Name

Dorothy C. Johnson
Dorothy C. Johnson, Mayor ~~President~~

COUNTERSIGNED:
Jadell K. Ferge
Jadell K. Ferge, Clerk ~~Secretary~~

STATE OF WISCONSIN,
OUTAGAMIE County. } ss.

Personally came before me, this 21st day of February A. D., 19 92, Dorothy C. Johnson, Mayor ~~President~~ and Jadell K. Ferge, Clerk ~~Secretary~~ of the above named Corporation, to me known to be the persons who executed the foregoing instrument, and to me known to be such President and Secretary of said Corporation, and acknowledged that they executed the foregoing instrument as such officers as the deed of said Corporation, by its authority.

Sophie A. Kennedy
Sophie A. Kennedy
Notary Public, Outagamie County, Wis.
My commission (expires) ~~is~~ 7-19-92

THIS INSTRUMENT WAS DRAFTED BY

Richard L. Hamilton
Corporation Counsel, Out. Co.

(SEAL)

PARCEL 8

(Section 59.51 (1) of the Wisconsin Statutes provides that all instruments to be recorded shall have plainly printed or typewritten thereon the names of the grantors, grantees, witnesses and notary. Section 59.513 similarly requires that the name of the person who, or governmental agency which, drafted such instrument, shall be printed, typewritten, stamped or written thereon in a legible manner.)

QUIT CLAIM DEED — STATE OF WISCONSIN — Wisconsin Legal Blank Company

DOCUMENT NO.

1036622

QUIT CLAIM DEED
STATE OF WISCONSIN - FORM 14

J 12356 | 1

THIS SPACE RESERVED FOR RECORDING DATA

Parcel #9

REGISTER'S OFFICE
OUTAGAMIE COUNTY, WI
RECEIVED AND RECORDED ON

APR 28 1992

AT 1:30 O'CLOCK P M
JACKET 12356 IMAGE One
Grace Herb

RETURN TO
Outagamie County Highway Department

13/172

This indenture, made by The BOC Group, Inc., a Delaware Corporation, located at Murray Hill, New Jersey, a Corporation duly organized and existing under and by virtue of the laws of the State of ~~Wisconsin~~ Delaware, grantor, of Outagamie County, Wisconsin, hereby quit-claims to Outagamie County grantee, of County, Wisconsin, for the sum of Six hundred sixty & no/100 dollars ($660.00) the following tract of land in Outagamie County, State of Wisconsin:

Fee Title in and to the following tract of land in the City of Appleton, Outagamie County, Wisconsin, described as:

All that land of the owner in the SE ¼ of the SW ¼ of Section 18, all in Township 21 North, Range 18 East, being a part of Lot 2 Block 8 of the Northeast Industrial Park Plat No. 1 and lying within the following described traverse:

Beginning at the Southwest corner of said Lot 2 on the present North Right of Way line of CTH "00" station 662+87.20; Thence North 88°25'32" East 20.00 feet along the South line of said Lot 2 (present North line Right of Way CTH "00"); Thence North 54°35'08" West 24.93 feet to the West line of said Lot 2 (East Right of Way line Roemer Road); Thence South 01°14'38" East 15.00 feet along said West line and Right of Way line to the Point of Beginning.

Said new Right of Way contains 0.003 acres, more or less or 150 square feet.

E. 10.00 mo form

FEE
2 EXEMPT

In Witness Whereof, the said grantor has caused these presents to be signed by Wayne O. Smith Group Vice President ~~Assistant~~, and countersigned by Patricia E. Fleming its Secretary, at Murray Hill, NJ, ~~Wisconsin~~, and its corporate seal to be hereunto affixed this 23rd day of April, A. D., 19 92.

SIGNED AND SEALED IN PRESENCE OF

Patricia Cochrane
PATRICIA COCHRANE
Marie Cucchisi
MARIE CUCCHISI

The BOC Group, Inc.
Corporate Name
by Wayne O. Smith
Group Vice President
Wayne O. Smith
COUNTERSIGNED: Patricia E. Fleming
Assistant Secretary
Patricia E. Fleming

STATE OF ~~WISCONSIN~~ NEW JERSEY
UNION County, } ss.

Personally came before me, this 23rd day of APRIL, A. D., 92,
WAYNE O. SMITH, VICE President, and PATRICIA E. FLEMING ASSISTANT Secretary
of the above named Corporation, to me known to be the persons who executed the foregoing instrument, and to me known to be such President and Secretary of said Corporation, and acknowledged that they executed the foregoing instrument as such officers as the deed of said Corporation, by its authority.

Barbara E. Auletta
BARBARA E. AULETTA
Notary Public of New Jersey
My Commission Expires April 27, 1993

THIS INSTRUMENT WAS DRAFTED BY
McMahon Associates, Inc.

(SEAL) Notary Public, ... County, Wis.
My commission (expires) (is) .....

Project 5814 – CTH "00"

Parcel 9

(Section 59.51 (1) of the Wisconsin Statutes provides that all instruments to be recorded shall have plainly printed or typewritten thereon the names of the grantors, grantees, witnesses and notary. Section 59.513 similarly requires that the name of the person who, or governmental agency which, drafted such instrument, shall be printed, typewritten, stamped or written thereon in a legible manner.)

DOCUMENT NO. 1029612

QUIT CLAIM DEED
STATE OF WISCONSIN - FORM 14

J 12082 | 58

THIS SPACE RESERVED FOR RECORDING DATA

Parcel 11

REGISTER'S OFFICE
OUTAGAMIE COUNTY, WI
RECEIVED AND RECORDED ON

FEB 27 1992

AT 12 Noon O'CLOCK M

JACKET 12082 IMAGE 58

Grace Herb

me

RETURN TO
Outagamie County Highway

12/11

This indenture, made by City of Appleton, a Wisconsin municipal corporation

~~Corporation~~ duly organized and existing under and by virtue of the laws of the State of Wisconsin, grantor, of Outagamie County, Wisconsin, hereby quit-claims to Outagamie County, a Wisconsin municipal corporation grantee, of Outagamie County, Wisconsin, for the sum of One Dollar and other good and valuable consideration ($1.00) the following tract of land in Outagamie County, State of Wisconsin:

E. 10.00 farm

Fee Title in and to the following tract of land in the City of Appleton, Outagamie County, Wisconsin, described as:

All that land of the owner in the SE 1/4 of the SE 1/4 and in the SW 1/4 of the SE 1/4 Section 18, all in Township 21 North, Range 18 East, being a part of Outlot 1, Block 9 of the Northeast Industrial Park Plat No. 1 and lying within the following described traverse:

Beginning at the Southwest corner of said Outlot 1 on the present North Right of Way line of CTH "OO" station 676+03.34;
Thence South 89°15'48" East 3.00 feet along the South line of said Outlot 1 (present North line Right of Way CTH "OO") to the Southeast corner thereof;
Thence South 89°36'07" East 37.00 feet along said Right of Way;
Thence North 53°19'56" West 50.72 feet to the West line of said Outlot 1 (present East Right of Way line Conkey Road);
Thence South 01°18'18" East 30.00 feet along said West line and Right of Way line to the Point of Beginning.

Said new Right of Way contains 0.002 acres, more or less or 87 square feet.

Grantor deeds the above described land to Grantee solely for highway purposes.

FEE
24 13
EXEMPT

In Witness Whereof, the said grantor has caused these presents to be signed by Dorothy C. Johnson, Mayor, and countersigned by Jadell K. Ferge, Clerk, its ~~President~~ at Appleton, Wisconsin, and its corporate seal to be hereunto affixed this 21st day of February, A. D., 1992.

SIGNED AND SEALED IN PRESENCE OF

CITY OF APPLETON
Corporate Name

Dorothy C. Johnson
Dorothy C. Johnson, Mayor

COUNTERSIGNED:
Jadell K. Ferge
Jadell K. Ferge, Clerk

STATE OF WISCONSIN,
Outagamie County. } ss.

Personally came before me, this 21st day of February, A. D., 1992, Dorothy C. Johnson, Mayor, President, and Jadell K. Ferge, Clerk, Secretary of the above named Corporation, to me known to be the persons who executed the foregoing instrument, and to me known to be such President and Secretary of said Corporation, and acknowledged that they executed the foregoing instrument as such officers as the deed of said Corporation, by its authority.

Sophie A. Kennedy
Sophie A. Kennedy
Notary Public, Outagamie County, Wis.
My commission (expires) 7-19-92

THIS INSTRUMENT WAS DRAFTED BY

Richard L. Hamilton
Corporation Counsel, Out. Co.

(SEAL)

PARCEL 11

(Section 59.51 (1) of the Wisconsin Statutes provides that all instruments to be recorded shall have plainly printed or typewritten thereon the names of the grantors, grantees, witnesses and notary. Section 59.513 similarly requires that the name of the person who, or governmental agency which, drafted such instrument, shall be printed, typewritten, stamped or written thereon in a legible manner.)

STATE OF WISCONSIN

Wisconsin Legal Blank Company

J 13361 I 35

17/255 15/21 LD

WARRANTY DEED **Document No. 1062378**

RE3004S 1089 Exempt from fee: s. 77.25(12)

OUTAGAMIE COUNTY
RECEIVED FOR RECORD
1992 DEC 18 A 11: 17
GRACE HERB
REGISTER OF DEEDS

THIS INDENTURE, made by Richard J. Wood

grantor(s) conveys and warrants the property described below to Outagamie County

grantee, for the sum of One thousand seven hundred thirty-nine & no/100 dollars ($1,739.00)

Any person named in this deed may make an appeal from the amount of compensation within six months after the date of recording of this deed as set forth in s. 32.05(2a) Wisconsin Statutes. For the purpose of any such appeal, the amount of compensation stated on the deed shall be treated as the award, and the date the deed is recorded shall be treated as the date of taking and the date of evaluation.

Other persons having ~~an~~ notice to interest of record in the property: This sale is pursuant to creditors & order of the bankruptcy court dated 11-19-92 copy of which is attached.

Return to: Outagamie County Highway Commission

Legal Description This (is) (is not) homestead property.

Fee Title in and to the following tract of land in the City of Appleton, Outgamie County, Wisconsin, described as:
All that land of the owner in the SE 1/4 of the SW 1/4 and in the SW 1/4 of the SE 1/4 Section 18, all in Township 21 North, Range 18 East, being a part of Outlot 1 Block 9 of the Northeast Industrial Park Plat No. 1 and lying within the following described traverse:
Beginning at the Southwest corner of said Outlot 1 on the present North Right-of-Way line of C.T.H. "OO" station 676+03.34;
Thence South 89°15'48" East 3.00 feet along the South line of said Outlot 1 (present North line Right-of-Way C.T.H. "OO") to the Southeast corner thereof;
Thence South 89°36'07" East 37.00 feet along said Right-of-Way;
Thence North 53°19'56" West 50.72 feet to the West line of said Outlot 1 (present East Right-of-Way line Conkey Road);
Thence South 01°18'18" East 30.00 feet along said West line and Right-of-Way line to the Point of Beginning.
Said new Right-of-Way contains 0.012 acres, more or less or 513 square feet

Dated this 10th day of February, 1992.

(Continued)

(Signature)

Richard J. Wood
(Print Name)

(Signature)

(Print Name)

(Signature)

(Print Name)

(Signature)

(Print Name)

Subscribed and sworn to before me this date 2 / 10 / 92

(Signature, Notary Public, State of Wisconsin)

Michael A. Marsden
(Print or Type Name, Notary Public, State of Wisconsin)

June 19, 1994
(Date Commission Expires)

(SEAL)

Project 5814 CTH "OO"

This instrument was drafted by the
McMahon Associates, Inc.

Parcel No. 12

J 13361 I 36

Also, a temporary limited easement for construction purposes; including for such purpose the right to operate necessary equipment thereon, the right of ingress and egress, as long as required for such purpose, including the right to preserve, protect, remove, or plant thereon any vegetation that the highway authorities may deem desirable to prevent erosion of the soil. This easement shall terminate upon completion of the construction project for which this instrument is given.

In and to the following tract of land in the City of Appleton, Outagamie County, Wisconsin being described as follows:

The South 20 feet and the South 61 feet of the West 25 feet of the following described property in the Southwest ¼ of the Southeast ¼ of Section 18, Township 21 North, Range 18 East, City of Appleton, Outagamie County, Wisconsin being described as follows:

The West 170 feet of the said Southwest ¼ of the Southeast ¼ of Section 18, lying South of Winslow Avenue and North of Northland Avenue (CTH "OO").

Tax Parcel #31-1-6728

FEE
2.00
EXEMPT