* INTERSECTION OF CTH-CB + CTH-JJ *

WINNEBAGO COUNTY

PLAN OF PROPOSED IMPROVEMENT

CTH JJ / WINNECONNE AVE. (CITY OF NEENAH)

PENDLETON RD - TULLAR RD

WINNEBAGO COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT

STATE PROJECT NUMBER

AS-BUILT PLAN

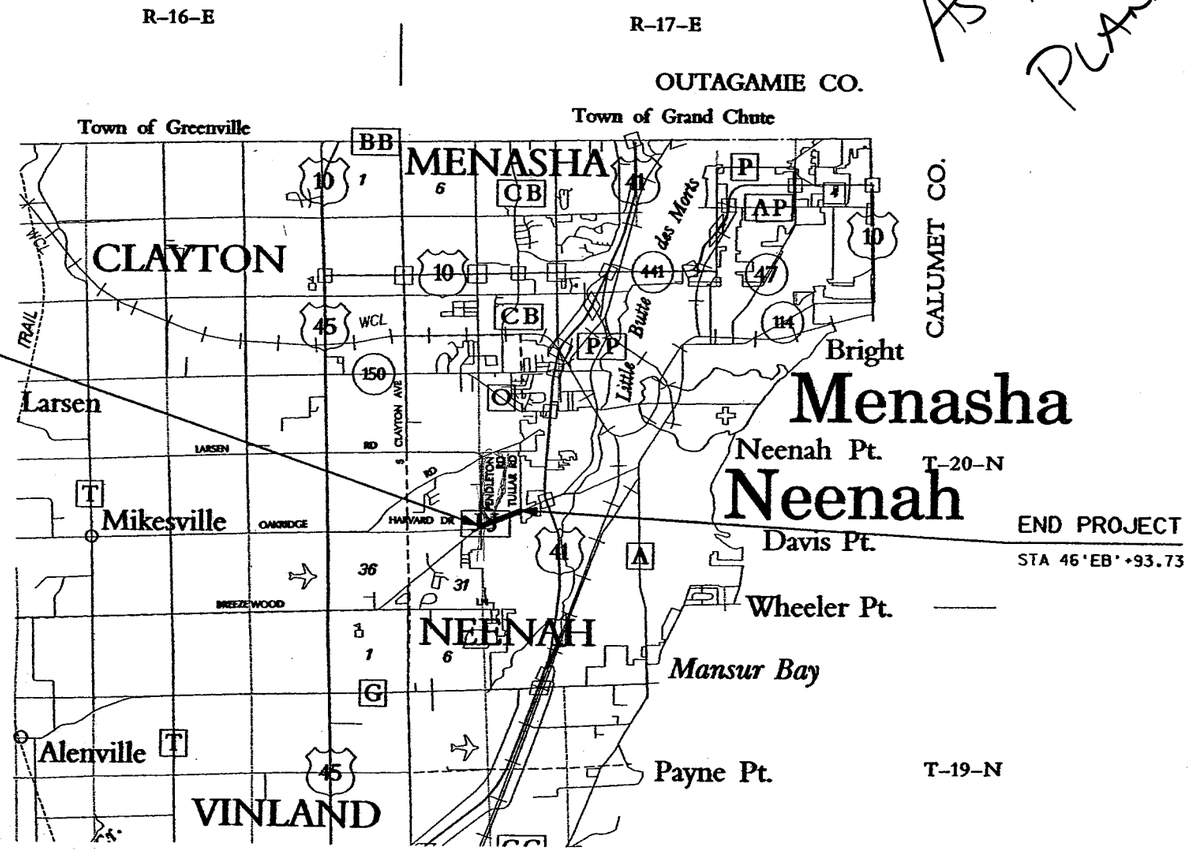
INDEX OF SHEETS

Sheet No. 1 Title
Sheet No. 2-12 Typical Sections and Details
Sheet No. 13-14 Estimate of Quantities
Sheet No. 15-18 Miscellaneous Quantities
Sheet No. 19-23 Right of Way Plat
Sheet No. 24-28 Plan and Profile (Includes Erosion Control Plan)
Sheet No. 29-54 Standard Detail Drawings
Sheet No. — Sign Plates
Sheet No. — Structure Plans
Sheet No. 18 Computer Earthwork Data
Sheet No. 55-63 Cross Sections

TOTAL SHEETS =

DESIGN DESIGNATION

ADT (2003)	= 10,720
ADT (2023)	= 15,060
D	= 0.55
T (ADT)	= 3.6%
DESIGN SPEED	= 45 MPH
ESALS	= 1,496,500



CONVENTIONAL SIGNS

COUNTY LINE		COMBUSTIBLE FLUIDS	
CORPORATE LIMITS		UNDERGROUND UTILITIES	
PROPERTY LINE	P.L. +58.1	GAS	G
LOT LINE		ELECTRIC	E
LIMITED EASEMENT		TELEPHONE OR TELEGRAPH	T
EXISTING RIGHT OF WAY		FIBER OPTICS	FO
PROPOSED OR NEW R/W LINE		SERVICE PEDESTAL	
SURVEY LINE		CABLE MARKER	P
SLOPE INTERCEPT		POWER POLE	
ORIGINAL GROUND		TELEPHONE POLE	
MARSH OR ROCK PROFILE		RAILROAD	
EXISTING CULVERT		MARSH AREA	
PROPOSED CULVERT (Box or Pipe)			
CULVERT (Profile View)		WOODED OR SHRUB AREA	
FENCE	—x—x—		

LAYOUT

SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.45 MI.

ACCEPTED FOR
WINNEBAGO COUNTY
01/06/03 (Date) John Fm. Hoerr (Signature)

ORIGINAL PLANS PREPARED BY
OMNI ASSOCIATES
APPLETON, WISCONSIN
DENNIS M. NODOLF E15517 APPLETON, WI
PROFESSIONAL ENGINEER
12/17/02 (Date) Dennis M Nodolf (Signature)

FILE NAME: E:\SIOADD\SHEETS /PLAN /EIS\TTL_DON PLOT DATE: 02/06/01
ORIGINATOR: OMNI ASSOCIATES ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 TECH/ENGR: DPP/DWN REV. DATE: / /
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 PLOT NAME: SEE FILE NAME PLOT SCALE: 1:

STANDARD DETAIL DRAWINGS

SDD NUMBER	TITLE
8A5-16a	INLET COVERS TYPE A, H, A-S & H-S
8A5-16b	INLET COVERS TYPE B, B-A, C, MS, MS-A & WM
8A5-16d	INLET COVER, TYPE Z MANHOLE COVERS, TYPE K, J, J-S, L & M
8B6-3	MANHOLES, TYPE 1
8B7-3	MANHOLES, TYPES 2 AND 3
8C1-5	INLETS, TYPES 1, 2, 3 AND 4
8C5-2	INLETS, TYPES 8,9,10, AND 11
8D1-13	CONCRETE CURB, CONCRETE CURB AND GUTTER AND PAVEMENT TIES
8D5-8	CURB RAMPS
8E8-2	TYPICAL INSTALLATIONS OF EROSION BALES
8E9-5	SILT FENCE
8F1-11	APRON ENDWALLS FOR CULVERT PIPE
8F10-1	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
9B2-6	CONDUIT
9B4-4	PULL BOX
9C2-2	CONCRETE BASES, TYPES 1, 2, AND 5
9F8-2	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE
13C1-10	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND PAVEMENT TIES
13C13-3	URBAN DOWELED CONCRETE PAVEMENT
15B3-10a & 10b	CHAIN LINK FENCE
15C2-3	BARRICADES AND SIGNS FOR ROAD CLOSURES
15C7-5a	PAVEMENT MARKING SYMBOLS
15C8-9a	PAVEMENT MARKING (MAINLINE)
15C8-9d	PAVEMENT MARKING (LEFT TURN LANE)
15C8-9e	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)

UTILITIES

ELECTRIC	WE ENERGIES - ELECTRIC OPERATIONS P.O. BOX 1699 800 S. LYNNDALE DRIVE APPLETON, WISCONSIN 54912 ATTN: DAVE PLAMANN TELEPHONE: (920) 380-3561
TELEPHONE FIBER OPTIC	SBC (AMERITECH) 221 W. WASHINGTON STREET FOURTH FLOOR APPLETON, WISCONSIN 54911 ATTN: MR. HUGH RICHARDS TELEPHONE: (920) 735-3246
GAS	WE ENERGIES - GAS OPERATIONS P. O. BOX 1699 800 SOUTH LYNNDALE DRIVE APPLETON, WISCONSIN 54912 ATTN: MR. DENNIS GIRARD TELEPHONE: (920) 380-3466
CABLE TV	TIME WARNER CABLE P.O. BOX 145 1001 KENNEDY AVENUE KIMBERLY, WISCONSIN 54316 ATTN: MS. SUE HEASTY TELEPHONE: (920) 738-3160 EXT 208
SANITARY SEWER WATERMAIN STORM SEWERS	CITY OF NEENAH DEPARTMENT OF PUBLIC WORKS 211 WALNUT STREET NEENAH, WISCONSIN 54956 ATTN: MR. TIM HAMBLIN TELEPHONE: (920) 751-4625
DNR LIAISON	DNR - SERVICE CENTER 625 E COUNTY ROAD Y OSHKOSH, WISCONSIN 54901-9731 ATTN: MS. BOBBI JO REISER TELEPHONE: (920) 303-5442
TRAFFIC SIGNALS	CITY OF NEENAH DEPARTMENT OF PUBLIC WORKS 211 WALNUT STREET NEENAH, WISCONSIN 54956 ATTN: MR. GERRY KAISER TELEPHONE: (920) 751-4629
DIGGERS HOTLINE	CABLE LOCATE TELEPHONE: (800) 242-8511 (TOLL FREE)

DIGGERS HOTLINE
Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

GENERAL NOTES

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

FILL AS SHOWN ON THE PLANS PERTAINS TO EMBANKMENTS CONSTRUCTED FROM COMMON EXCAVATION. THE ALLOWANCE USED FOR EXPANDING THE FILLS TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 30 PERCENT. ALL FILL VOLUMES SHOWN ARE THE ACTUAL VOLUMES.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT SHOWN ON THE CROSS SECTIONS. IF ADDITIONAL EBS IS REQUIRED, IT WILL BE MEASURED AND PAID FOR AS COMMON EXCAVATION. EXACT LOCATIONS AND LIMITS FOR EBS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

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

DISTURBED AREAS IN FRONT OF HOMES OR BUSINESSES ARE TO BE TOPSOILED WITH PULVERIZED TOPSOIL. ALL DISTURBED AREAS, NOT OTHERWISE SURFACED, ARE TO BE TOPSOILED, FERTILIZED, SEEDED AND MULCHED. ALL AREAS SHALL BE SEEDED WITH MIXTURE NO. 40.

ALL MANHOLE AND INLET OFFSETS ARE GIVEN TO THE CENTER OF THE STRUCTURE.

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

ALL EXISTING CULVERTS WITHIN THE SLOPE INTERCEPTS SHALL BE REMOVED AND CONSIDERED INCIDENTAL TO THE ITEM OF COMMON EXCAVATION.

THE REMOVAL OF EXISTING STORM SEWER PIPE ENCOUNTERED IN THE EXCAVATION FOR PROPOSED STORM SEWER PIPE WILL BE INCIDENTAL TO THE ITEM OF STORM SEWER PIPE.

THE COST OF CONNECTING EXISTING STORM SEWERS OR DRAINAGE STRUCTURES TO THE NEW STORM SEWER SHALL BE INCIDENTAL TO THE COST OF THE STORM SEWER.

ALL INLET CASTINGS IN THE CITY OF NEENAH REMOVED AS PART OF THIS PROJECT SHALL BECOME THE PROPERTY OF THE CITY OF NEENAH. THE CONTRACTOR SHALL CONTACT THE CITY OF NEENAH FOR A LOCATION TO PLACE INLETS IN THE RIGHT-OF-WAY FOR PICK UP BY THE CITY.

THE EXACT LOCATIONS OF ALL EROSION CONTROL ITEMS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

BOXOUTS SHALL BE PROVIDED IN CONCRETE LOADING ZONE BY THE CONTRACTOR FOR SIGN PLACEMENT. THE COST OF THE BOXOUTS SHALL BE INCIDENTAL TO CONCRETE LOADING ZONE. LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.

ALL CONCRETE MEDIAN NOSES SHALL BE SLOPED DOWN FROM 6 INCHES TO 2 INCHES IN 4 FEET.

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

ALL CONCRETE CURB AND GUTTER ON THIS PROJECT SHALL BE INTEGRAL. EXCEPT FOR THE CURB RETURNS AT BABCOCK STREET.

CURB RAMP OPENINGS AS SHOWN ON THE PLANS ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL CURB RAMPS SHALL BE TYPE 2 UNLESS NOTED OTHERWISE.

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

ALL DRIVEWAY APRONS SHALL BE 6-INCH CONCRETE.

BEYOND THE APRON, DRIVEWAYS TO BE REPLACED SHALL BE REPLACED IN KIND. CRUSHED AGGREGATE BASE COURSE WILL BE USED UNDER ALL DRIVEWAYS AND TRAIL.

WHERE SLOPE INTERCEPT LINES FALL OUTSIDE OF THE EXISTING RIGHT-OF-WAY, TEMPORARY INTERESTS TO ACCOMPLISH CONSTRUCTION WORK WITHIN THE SLOPE INTERCEPTS HAVE BEEN OBTAINED. THESE RIGHTS ARE EXTENDED TO THE CONTRACTOR.

TACK COAT HAS BEEN ESTIMATED AT AN APPLICATION RATE OF 0.025 GALLONS PER SQUARE YARD AND SHALL BE USED IF DEEMED NECESSARY BY THE ENGINEER.

DISTANCES SHOWN ON THIS PLAN ARE GROUND DISTANCES.

BEARINGS SHOWN ON THIS PLAN ARE GRID BEARINGS BASED ON THE WINNEBAGO COUNTY COORDINATE SYSTEM.

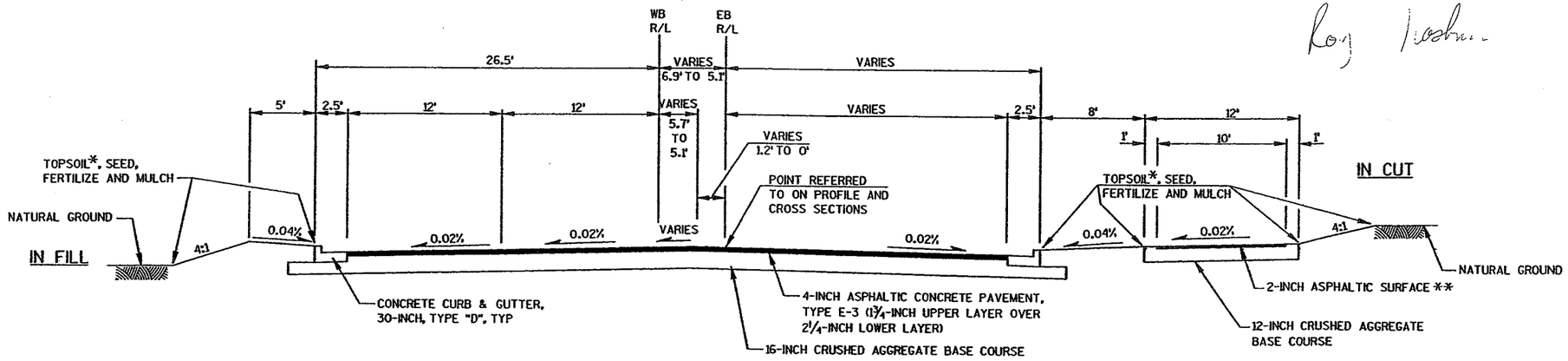
PLAN ELEVATIONS = USGS DATUM

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, 59,60,61,62,

STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	GENERAL NOTES	SCALE, FEET 0	SHEET NO: 2.	E

FILE NAME : F:\Transportation\E1510A00\SHEETS\PLAN\e1510gn1.dgn PLOT DATE: 01/08/2003 02:19:58 PM ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 42

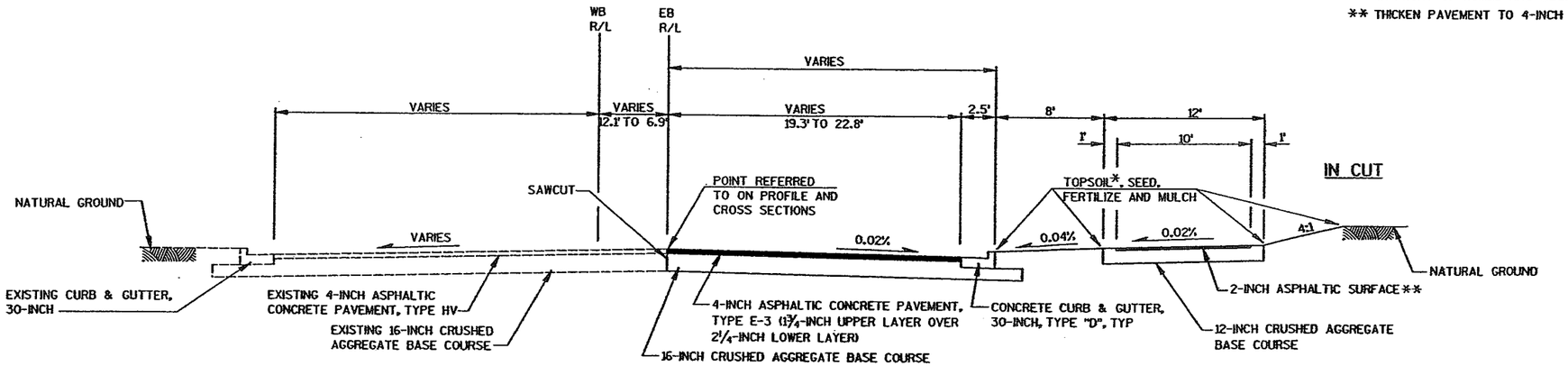


PROPOSED TYPICAL CROSS-SECTION FOR CTH JJ

STA 23'EB'+50 TO STA 23'EB'+80

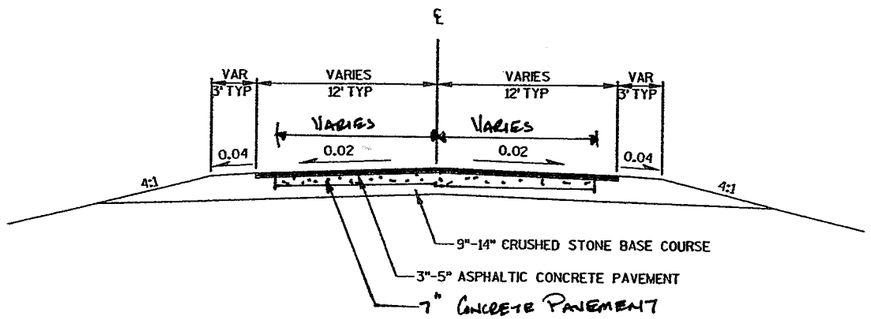
* PULVERIZED TOPSOIL SHALL BE USED IN FRONT OF HOMES AND BUSINESSES

** THICKEN PAVEMENT TO 4-INCH AT DRIVEWAYS



PROPOSED TYPICAL CROSS-SECTION FOR CTH JJ

STA 22'EB'+60 TO STA 23'EB'+50



EXISTING TYPICAL CROSS-SECTION FOR CTH JJ

STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SCALE, FEET	SHEET NO: 3.	E

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WISDOT/CADDS SHEET 42

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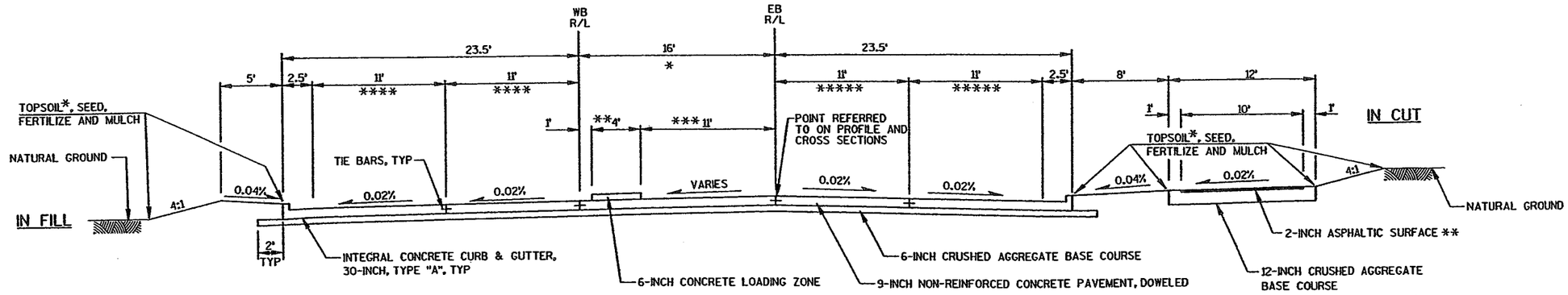


PROPOSED TYPICAL CROSS-SECTION FOR CTH JJ

(STA 45+65 - 46+93)

* VARIES 0' TO 16', STA 42'EB'+65 TO STA 45'EB'+65

** VARIES 3' TO 6', STA 43'EB'+58 TO STA 44'EB'+15
VARIES 6' TO 4', STA 44'EB'+15 TO STA 45'EB'+65

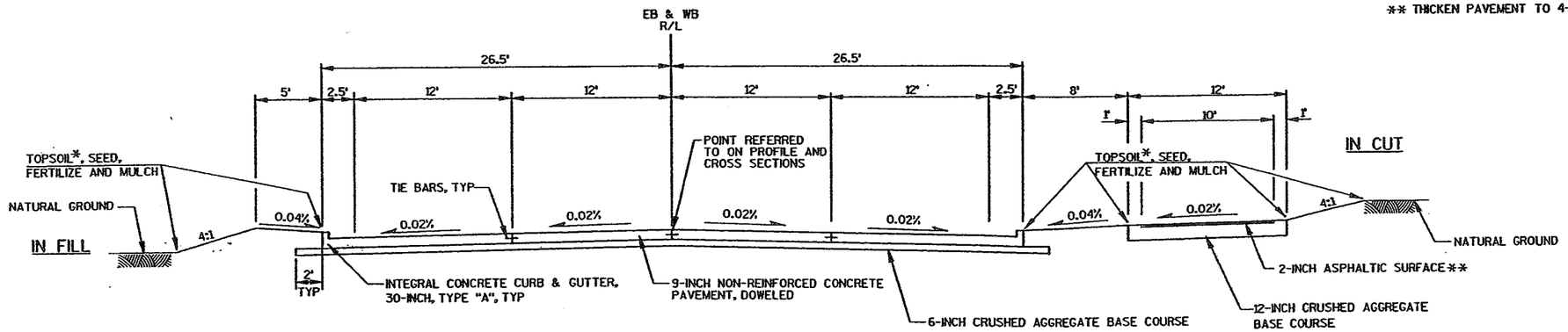
*** VARIES 1' TO 11', STA 44'EB'+15 TO STA 45'EB'+65

**** VARIES 12' TO 11', STA 42'EB'+65 TO STA 43'EB'+65

***** VARIES 12' TO 11' STA 42'EB'+65 TO STA 43'EB'+25

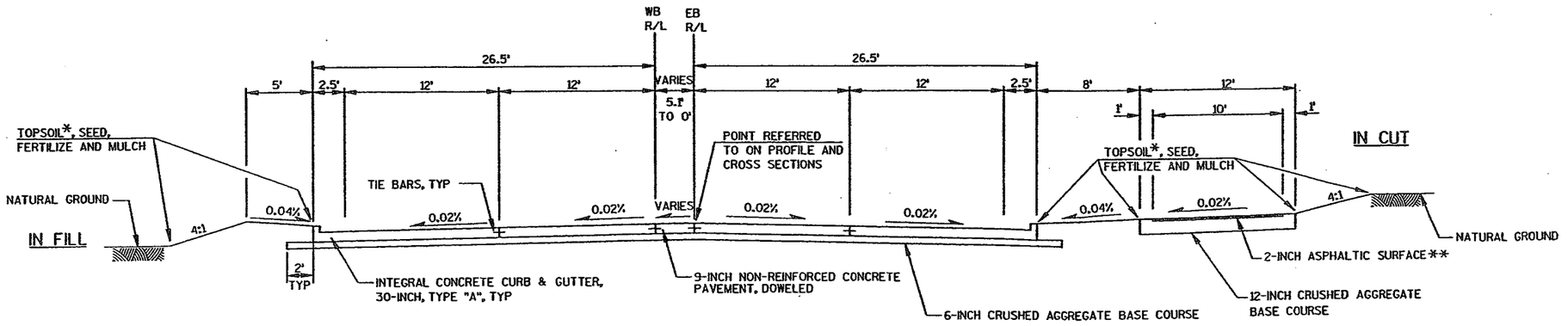
* PULVERIZED TOPSOIL SHALL BE USED IN FRONT OF HOMES AND BUSINESSES

** THICKEN PAVEMENT TO 4-INCH AT DRIVEWAYS



PROPOSED TYPICAL CROSS-SECTION FOR CTH JJ

STA 26'EB'+40 TO STA 42'EB'+65



PROPOSED TYPICAL CROSS-SECTION FOR CTH JJ

STA 23'EB'+80 TO STA 26'EB'+40

STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SCALE, FEET 0	SHEET NO: 4.	E

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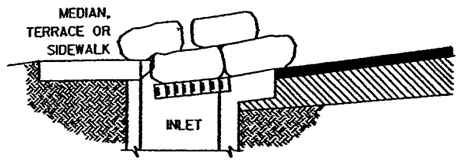
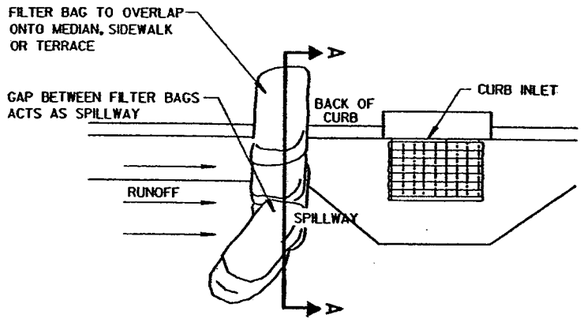
PLOT SCALE :
ORIGINATOR : OMNNI ASSOCIATES
PLOT SCALE :
WISDOT/CADDS SHEET 42

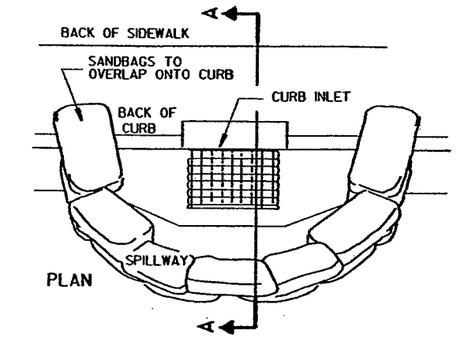


SECTION A-A



CURB INLET SEDIMENT BARRIER - CONTINUOUS GRADE

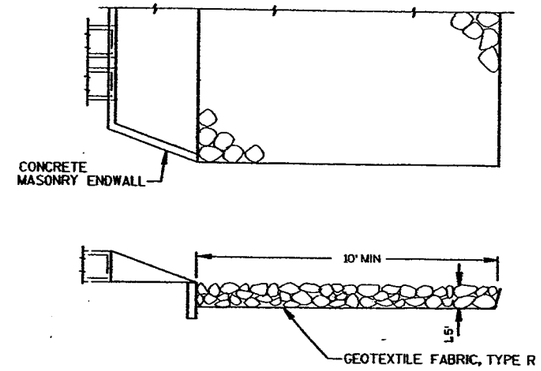
(FILTER BAG TYPE)



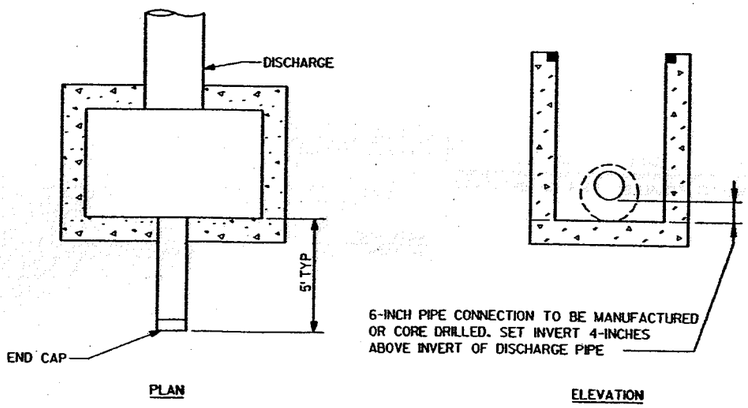
SECTION A-A

CURB INLET SEDIMENT BARRIER - SAG

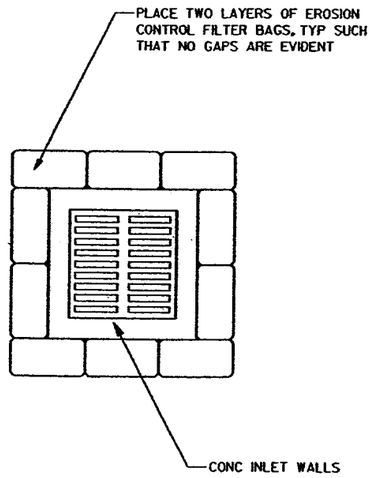
(FILTER BAG TYPE)



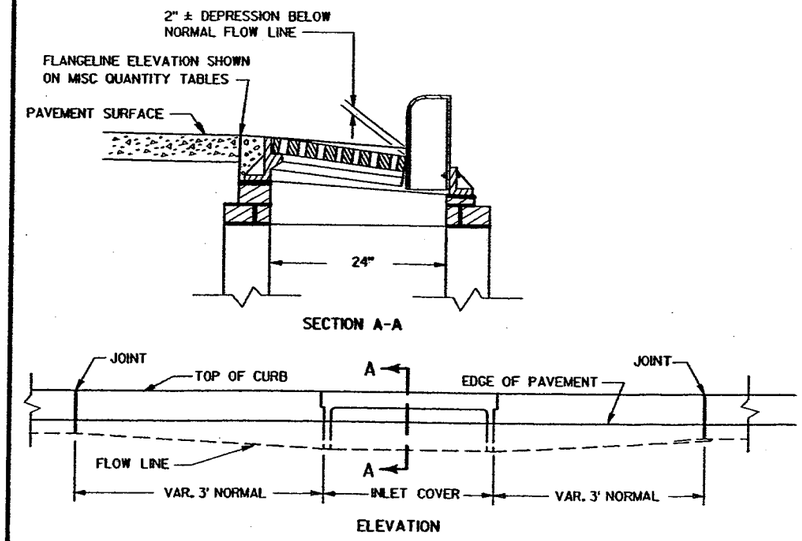
MEDIUM RANDOM RIPRAP



MINI-STORM SEWER CONNECTION DETAIL



FILTER BAGS AT FIELD INLETS OR ENDWALLS



DETAIL OF CURB AND GUTTER AT INLETS

STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	CONSTRUCTION DETAILS	SCALE, FEET 0	SHEET NO: 5.	E

FILE NAME : f:\transportation\e1510a00\sheets\plan\e1510dtl.dgn PLOT DATE: 14 AUG 2001 10:59:13 ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 42

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, 58,59,60,61,62,

WIDTH OF DRIVEWAYS

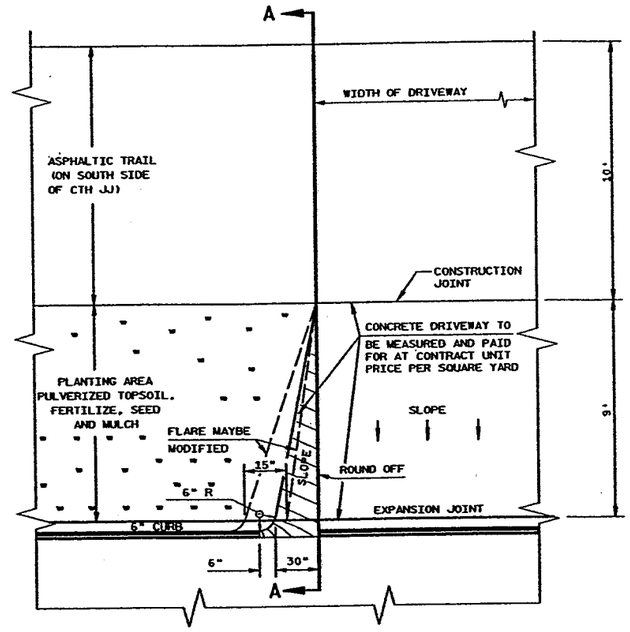
SINGLE OR COMBINATION MEASURED AT RIGHT ANGLES TO CENTERLINE OF DRIVEWAY.

RURAL	-	NON-COMMERCIAL	24' MAX
URBAN	-	NON-COMMERCIAL	24' MAX
URBAN	-	COMMERCIAL	35' MAX

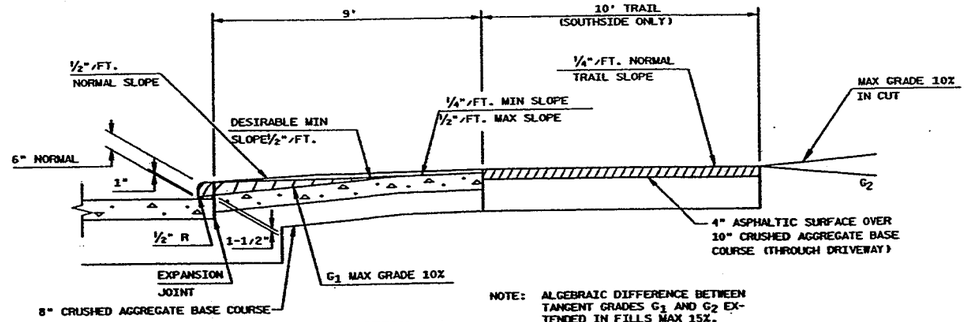
NOTE: NON-PAVED DRIVEWAYS SHALL CONSIST OF 6" OF CRUSHED AGGREGATE BASE COURSE.

ASPHALTIC DRIVEWAYS AND PARKING LOTS SHALL CONSIST OF 10" OF CRUSHED AGGREGATE BASE COURSE AND 4" OF ASPHALTIC PAVEMENT. TYPE E-0.3.

ALL CONCRETE DRIVEWAYS SHALL BE 6".



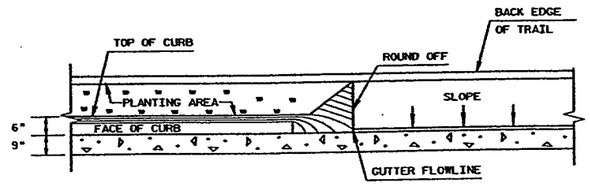
PLAN



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

SECTION A-A

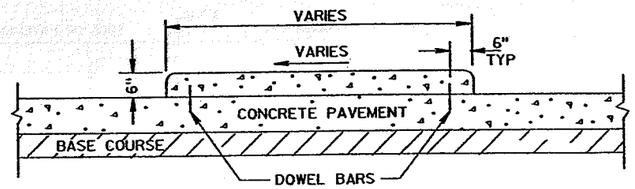
PROFILES PARALLEL TO ℄ OF DRIVEWAY



PROFILES PARALLEL TO CENTERLINE OF ROADWAY

CONCRETE DRIVEWAY (APRONS)

NOTE: ISLAND DOWELLED TO CONCRETE BASE WITH NO. 5 X 10" EPOXY COATED REINF. BARS 6" INTO BASE & 24" C-C (DOWEL BARS ARE INCIDENTAL TO CONCRETE LOADING ZONE)



CONCRETE LOADING ZONE

STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	CONSTRUCTION DETAILS	SCALE, FEET 0	SHEET NO: 6.	E

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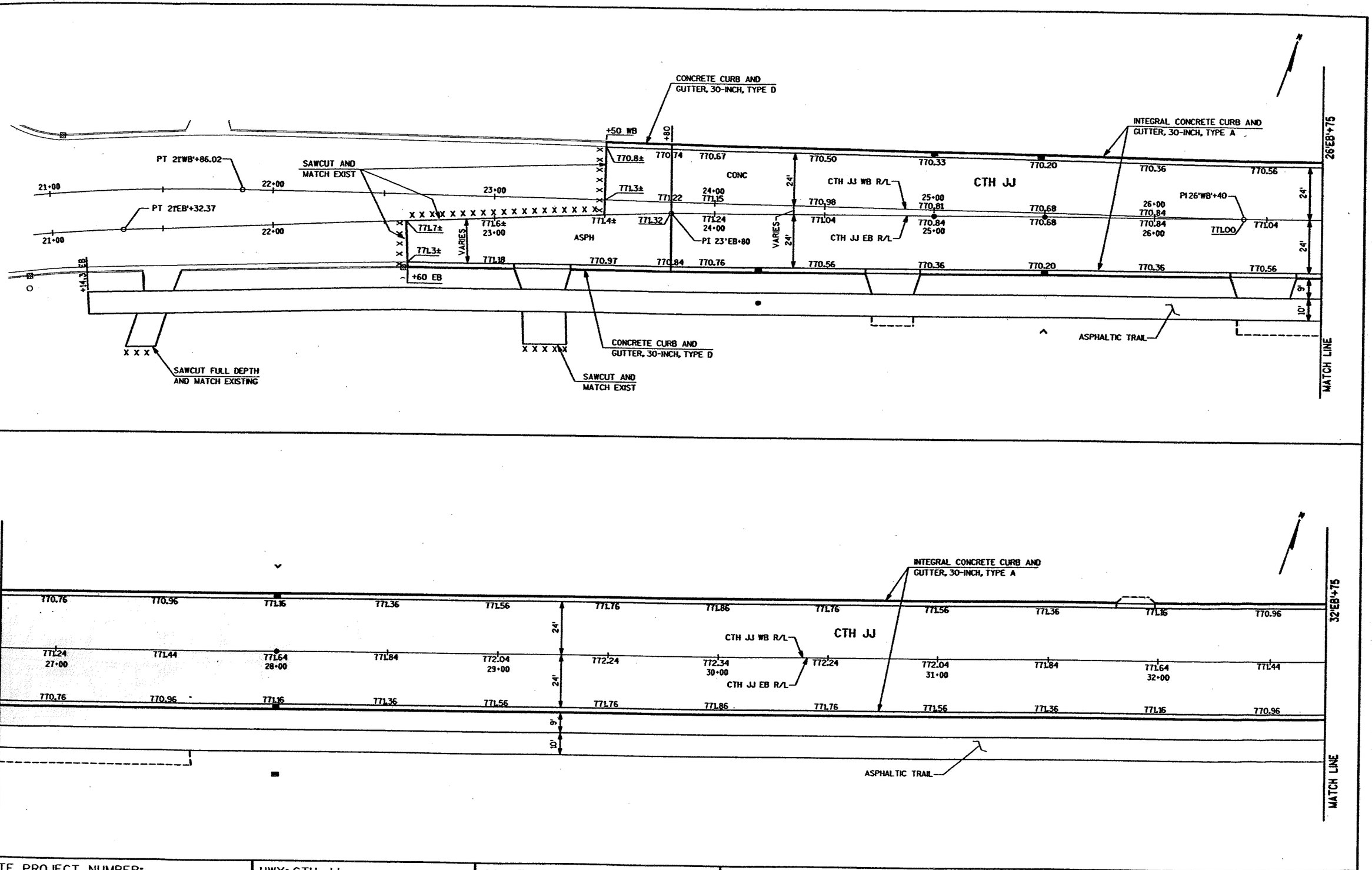
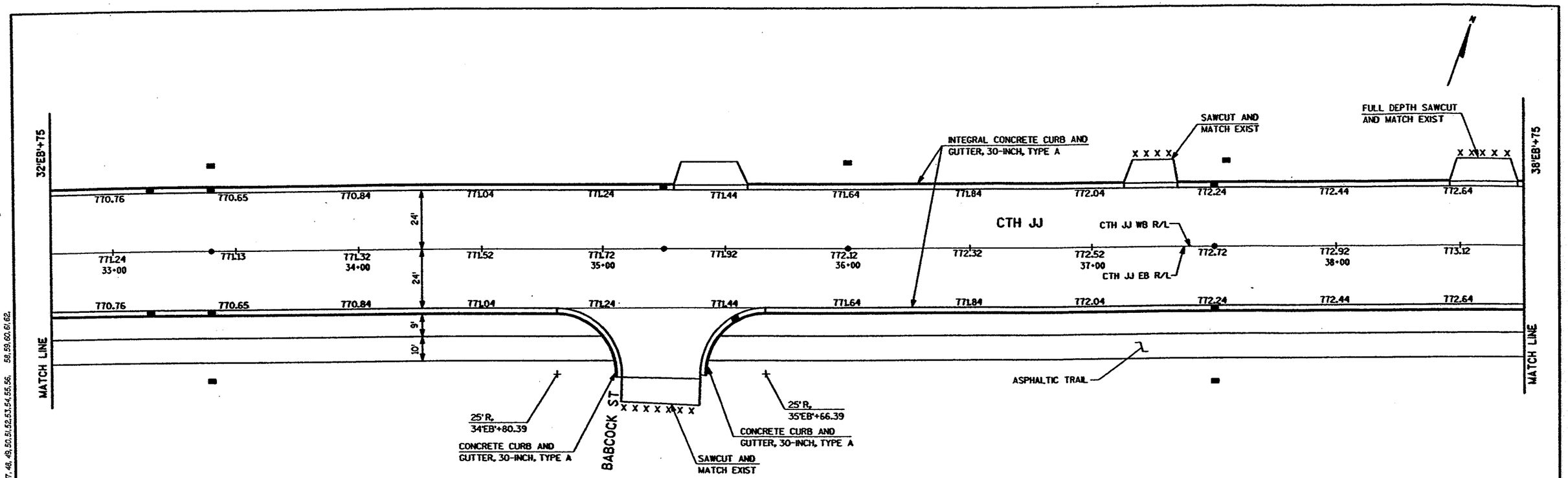


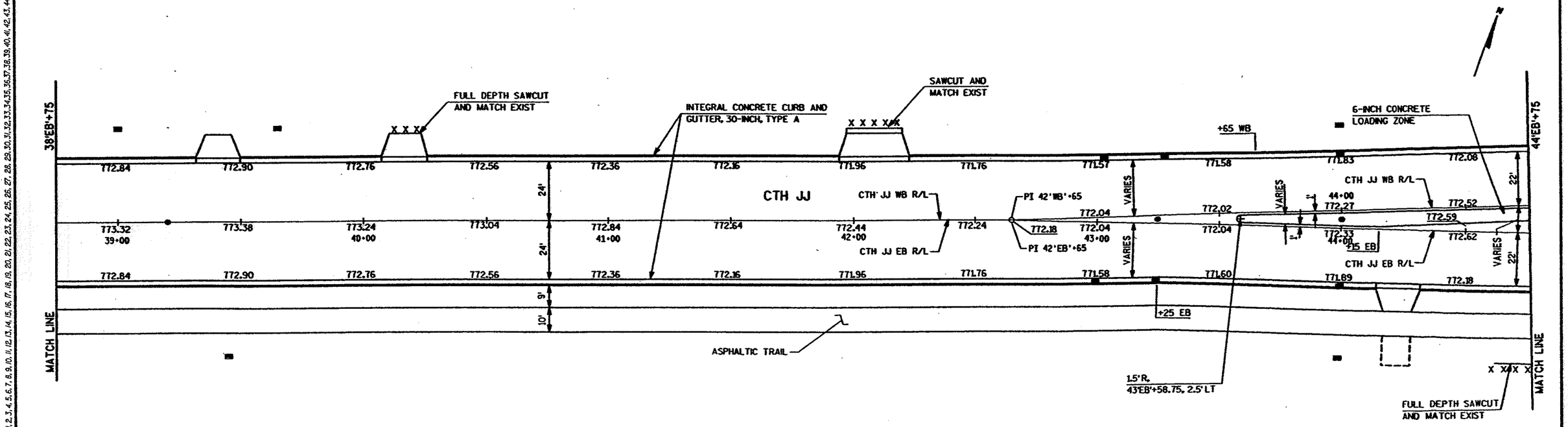
LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,58,59,60,61,62,

STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	PAVING DETAILS	SCALE, FEET 0 20 40	SHEET NO: 7.	E

FILE NAME : f:\transportation\e1510a00\sheets\plan\e1510pd1.dgn PLOT DATE: 13 AUG 2001 10:34:26 ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 42



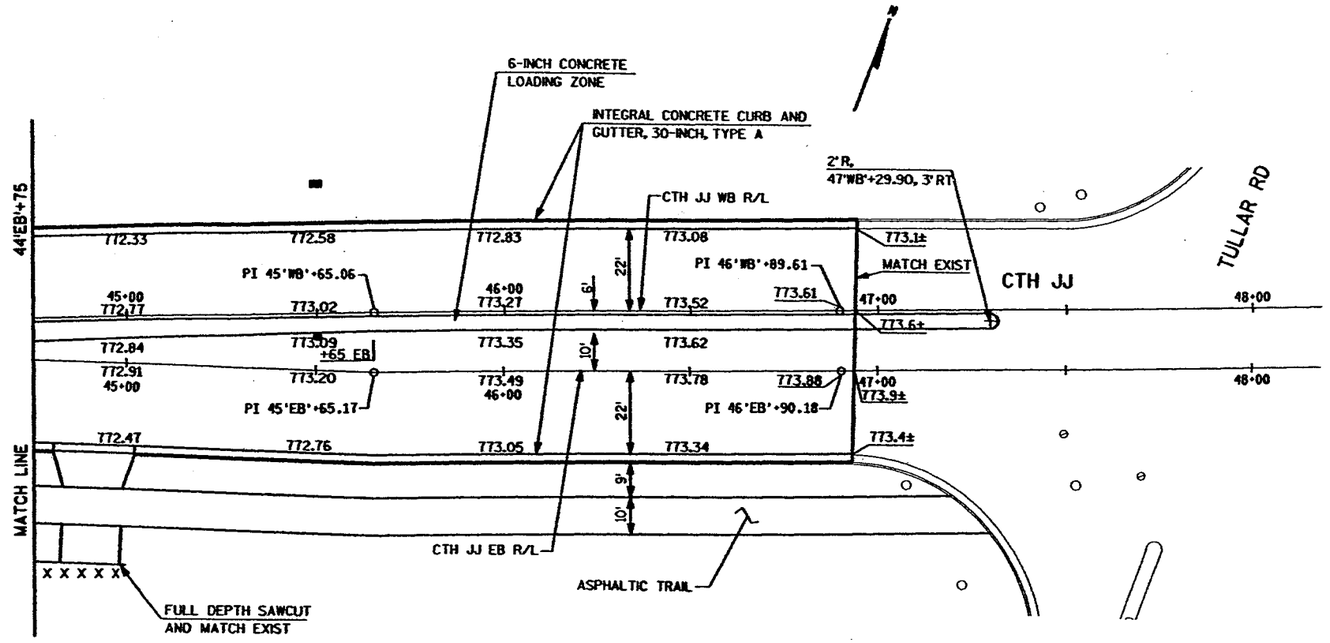


STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	PAVING DETAILS	SCALE, FEET 0 20 40	SHEET NO: 8.	E

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, 58,59,60,61,62,

FILE NAME : f:\transportation\e1510a00\sheets\plan\e1510pd2.dgn PLOT DATE: 13 AUG 2001 10:40:07 ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 42

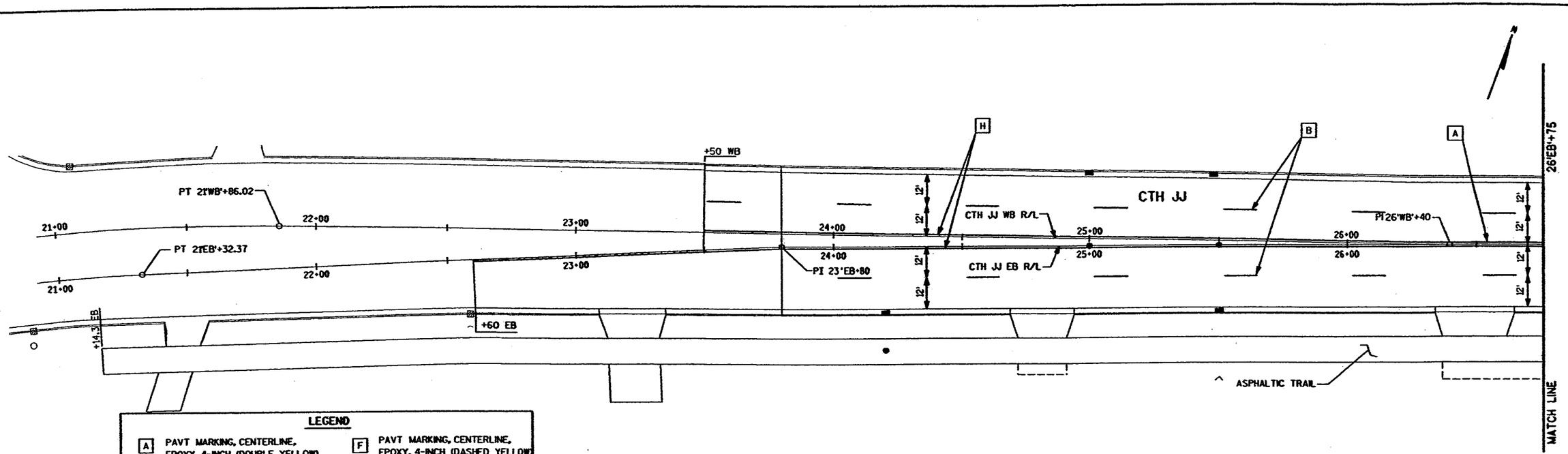


LEVELS ON = 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56, 59,59,60,61,62,

STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	PAVING DETAILS	SCALE, FEET 0 20 40	SHEET NO: 9.	E

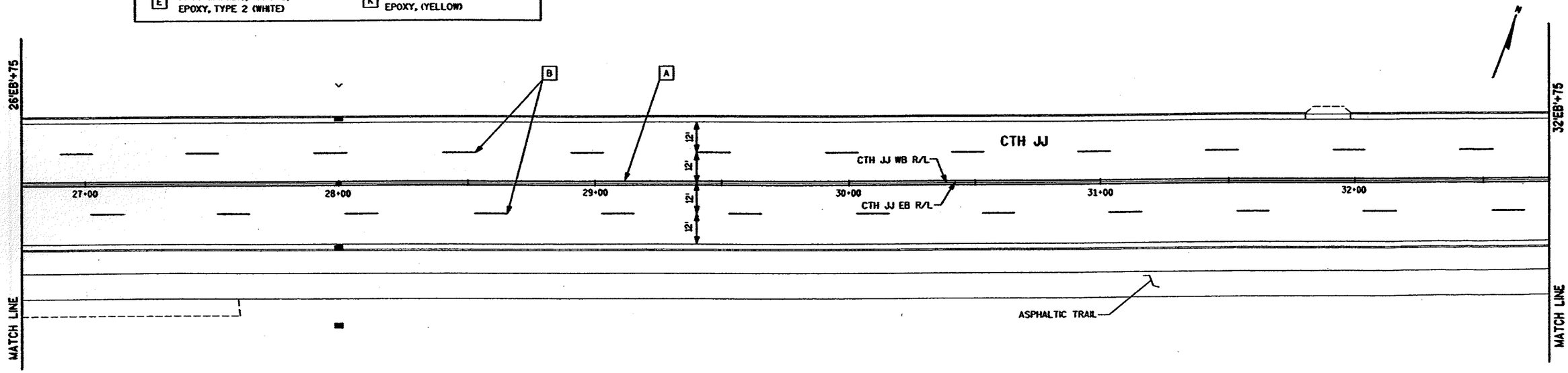
FILE NAME : f:\transportation\el510a00\sheets\plan\el510pd3.dgn PLOT DATE: 13 AUG 2001 10:41:21 ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 42



LEGEND

- A — PAVT MARKING, CENTERLINE, EPOXY, 4-INCH (DOUBLE YELLOW)
- B — PAVT MARKING, LANE LINE, EPOXY, 4-INCH (DASHED WHITE)
- C — PAVT MARKING, CHANNELIZING, EPOXY, 8-INCH (WHITE)
- D — PAVT MARKING, STOP LINE, EPOXY, 18-INCH (WHITE)
- E — PAVT MARKING, ARROWS, EPOXY, TYPE 2 (WHITE)
- F — PAVT MARKING, CENTERLINE, EPOXY, 4-INCH (DASHED YELLOW)
- G — PAVT MARKING, WORDS, EPOXY, (WHITE)
- H — PAVT MARKING, EDGE LINE, EPOXY, 4-INCH (YELLOW)
- J — PAVT MARKING, CROSSWALK, EPOXY, 6-INCH (WHITE)
- K — PAVT MARKING, ISLAND NOSE, EPOXY, (YELLOW)

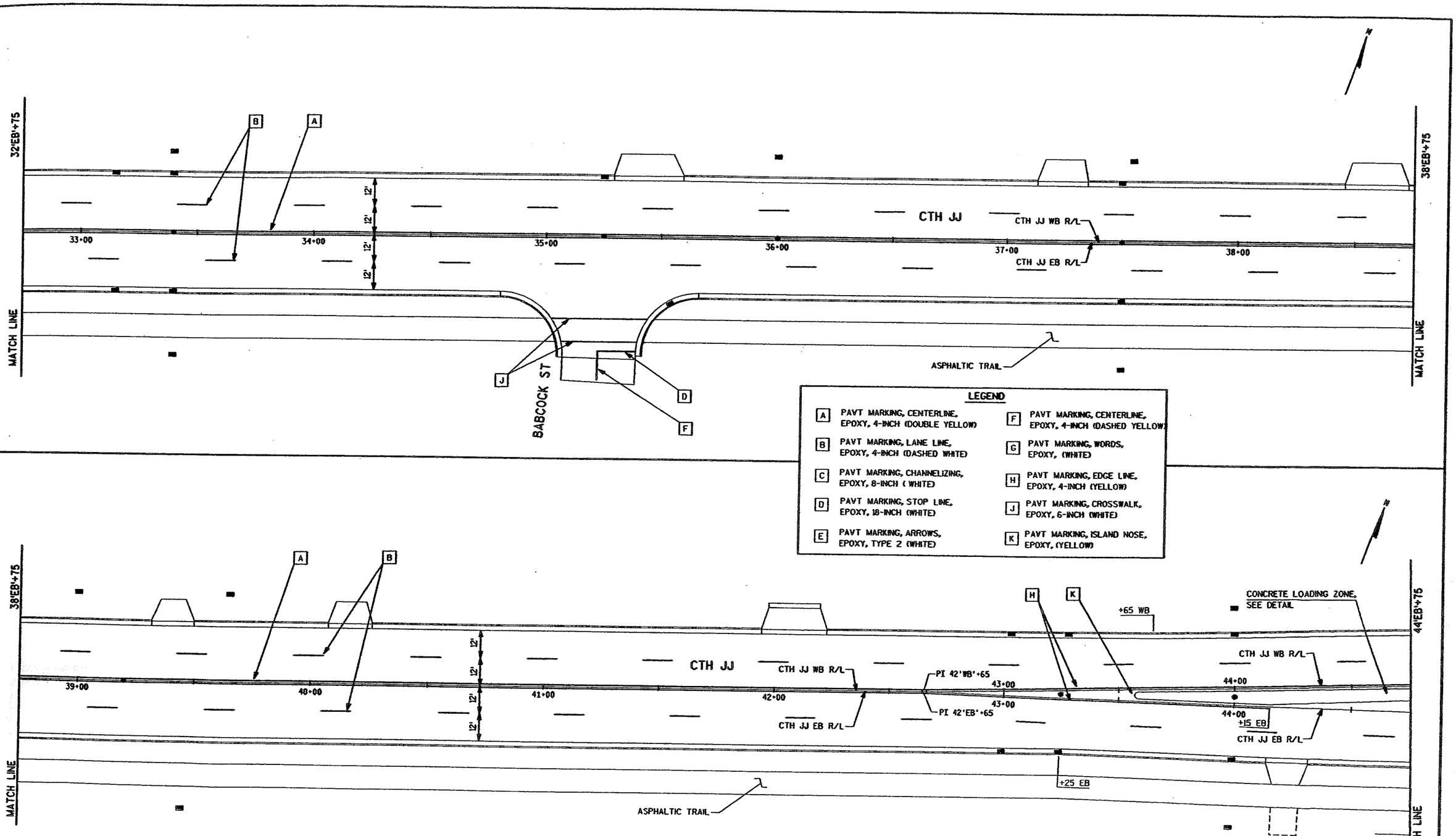


STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	PAVEMENT MARKING PLAN	SCALE, FEET 0 20 40	SHEET NO: 10.	E

FILE NAME : f:\transportation\e1510a00\sheets\plan\e1510pm1.dgn PLOT DATE: 13 AUG 2001 10:42:26 ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 42

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



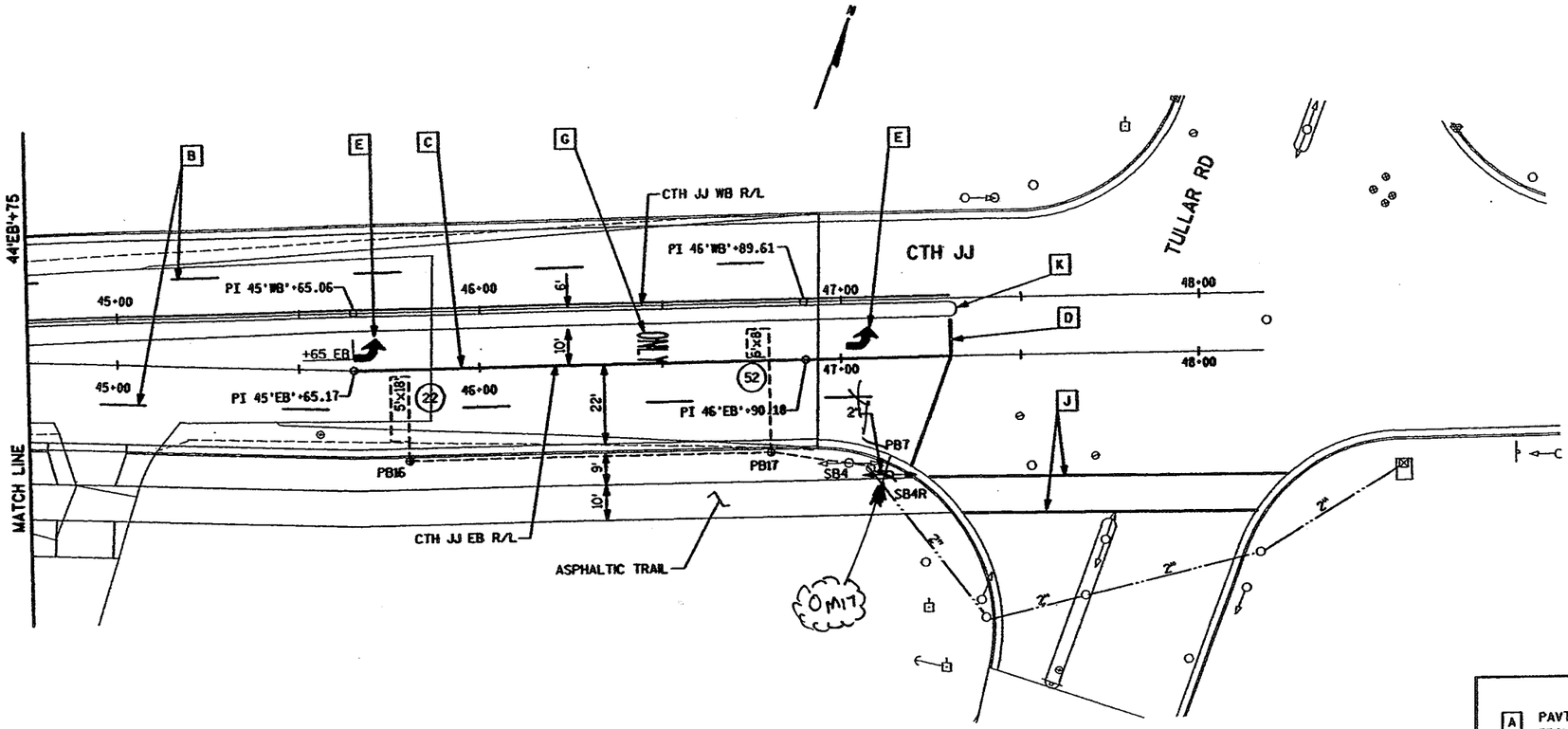
STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	PAVEMENT MARKING PLAN	SCALE, FEET 0 20 40	SHEET NO: 11 .

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, 59,60,61,62

FILE NAME : f:\transportation\e1510a00\sheets\plan\e1510pm2.dgn

PLOT DATE: 13 AUG 2001 10:43:02 ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 42



LEGEND

A	PAVT MARKING, CENTERLINE, EPOXY, 4-INCH (DOUBLE YELLOW)	F	PAVT MARKING, CENTERLINE, EPOXY, 4-INCH (DASHED YELLOW)
B	PAVT MARKING, LANE LINE, EPOXY, 4-INCH (DASHED WHITE)	G	PAVT MARKING, WORDS, EPOXY, (WHITE)
C	PAVT MARKING, CHANNELIZING, EPOXY, 8-INCH (WHITE)	H	PAVT MARKING, EDGE LINE, EPOXY, 4-INCH (YELLOW)
D	PAVT MARKING, STOP LINE, EPOXY, 18-INCH (WHITE)	J	PAVT MARKING, CROSSWALK, EPOXY, 6-INCH (WHITE)
E	PAVT MARKING, ARROWS, EPOXY, TYPE 2 (WHITE)	K	PAVT MARKING, ISLAND NOSE, EPOXY, (YELLOW)

- ⊕PB-00 — 12"x24" PULL BOX & NUMBER
- ———— — 1" NONMETALLIC CONDUIT (UNLESS OTHERWISE NOTED)
- 6'X 20' — DETECTOR LOOPS AND SIZE
- ——·—— — EXISTING CONDUIT
- SB4R — SIGNAL BASE AND NUMBER
- SB4 — EXISTING SIGNAL BASE AND NUMBER
- ⊠ — EXISTING CONTROLLER

STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	PAVEMENT MARKING & SIGNAL PLAN	SCALE, FEET 0 20 40	SHEET NO: 12.	E

ESTIMATE OF QUANTITIES

DATE 01/07/03

ITEM	ITEM DESCRIPTION	Unit	TOTAL	CTH JJ QUANTITY
20102	CLEARING	I.D.	180.00	180.00
20105	GRUBBING	I.D	180.00	180.00
20401	REMOVING PAVEMENT	S.Y.	94.00	94.00
20405	REMOVING CURB AND GUTTER	L.F.	190.00	190.00
20408	REMOVING MASONRY	C.Y.	12.00	12.00
20412	REMOVING FENCE	L.F.	275.00	275.00
20501	COMMON EXCAVATION	C.Y.	6,000.00	6,000.00
21301	FINISHING ROADWAY	LS	1.00	1.00
30404	CRUSHED AGGREGATE BASE COURSE	TON	6,500.00	6,500.00
30407	SALVAGED CRUSHED AGGREGATE BASE COURSE	C.Y.	1,300.00	1,300.00
30426	BREAKER RUN STONE	TON	200.00	200.00
40204	ASPHALTIC MATERIAL FOR TACK COAT	GAL	15.00	15.00
40501	ASPHALTIC MATERIAL FOR PLANT MIXES	TON	7.00	7.00
40723	ASPHALTIC CONCRETE PAVEMENT, TYPE E-3	TON	120.00	120.00
41101	ASPHALTIC SURFACE	TON	400.00	400.00
41509	CONCRETE PAVEMENT, 9-INCH	S.Y.	9,700.00	9,700.00
41605	CONCRETE DRIVEWAY, 6-INCH	S.Y.	300.00	300.00
41653	PAVEMENT TIES	EACH	21.00	21.00
41665	CONCRETE PAVEMENT GAPS	EACH	2.00	2.00
50409	CONCRETE MASONRY, ENDWALLS	C.Y.	14.00	14.00
52260	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 12-INCH	EACH	2.00	2.00
52340	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CULVERT PIPE, CLASS HE-III, 29 X 45-INCH	L.F.	128.00	128.00
60123	CONCRETE CURB AND GUTTER, 30-INCH, TYPE A	L.F.	4,660.00	4,660.00
60133	CONCRETE CURB AND GUTTER, 30-INCH, TYPE D	L.F.	150.00	150.00
60210	CONCRETE LOADING ZONE	S.F.	1,690.00	1,690.00
60604	MEDIUM RANDOM RIPRAP	C.Y.	120.00	120.00
60825	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 12-INCH	L.F.	1,330.00	1,330.00
60826	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 15-INCH	L.F.	835.00	835.00
60827	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 18-INCH	L.F.	118.00	118.00
61006	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CULVERT PIPE, CLASS HE-III, STORM SEWER, 29 X 45-INCH	L.F.	21.00	21.00
61110	MANHOLES, TYPE 1	EACH	11.00	11.00
61112	MANHOLES, TYPE 3	EACH	1.00	1.00
61122	INLETS, TYPE 3	EACH	20.00	20.00
61123	INLETS, TYPE 8	EACH	12.00	12.00
61151	MANHOLE COVERS, TYPE J	EACH	11.00	11.00
61156	INLET COVERS, TYPE H-S	EACH	6.00	6.00
61163	INLET COVERS, TYPE C	EACH	1.00	1.00
61167	INLET COVERS, TYPE H	EACH	14.00	14.00
61170	INLET COVERS, TYPE MS	EACH	12.00	12.00
61182	ADJUSTING MANHOLE COVERS	EACH	2.00	2.00

ITEM	ITEM DESCRIPTION	Unit	TOTAL	CTH JJ QUANTITY
61610	CHAIN LINK FENCE, 4 FT.	L.F.	35.00	35.00
61910	MOBILIZATION	LS	1.00	1.00
62401	WATER	MGAL	60.00	60.00
62501	TOPSOIL	S.Y.	9,700.00	9,700.00
62702	MULCHING	S.Y.	9,700.00	9,700.00
62811	EROSION BALES, DELIVERED	EACH	39.50	39.50
62812	EROSION BALES, INSTALLED	EACH	40.00	40.00
62815	SILT FENCE, DELIVERED	L.F.	900.00	900.00
62816	SILT FENCE, INSTALLED	L.F.	900.00	900.00
62819	SILT FENCE MAINTENANCE	L.F.	1,800.00	1,800.00
62820	MOBILIZATIONS, EROSION CONTROL	EACH	2.00	2.00
62821	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	3.00	3.00
62840	EROSION MAT, DELIVERED, CLASS III, TYPE A	S.Y.	300.00	300.00
62841	EROSION MAT, INSTALLED, CLASS III, TYPE A	S.Y.	300.00	300.00
62905	FERTILIZER, TYPE B	CWT	7.00	7.00
63011	SEEDING, MIXTURE NO. 40	LB	170.00	170.00
64301	TRAFFIC CONTROL	LS	1.00	1.00
64505	GEOTEXTILE FABRIC, TYPE R	S.Y.	250.00	250.00
64602	PAVEMENT MARKING, 4-INCH, EPOXY	L.F.	6,570.00	6,570.00
64618	PAVEMENT MARKING, CHANNELIZING, 8-INCH, EPOXY	L.F.	260.00	260.00
64710	PAVEMENT MARKING, STOP LINE, 18-INCH, EPOXY	L.F.	45.00	45.00
64718	PAVEMENT MARKING, CROSSWALK, 6-INCH, EPOXY	L.F.	265.00	265.00
64734	PAVEMENT MARKING, ARROWS, TYPE 2, EPOXY	EACH	2.00	2.00
64758	PAVEMENT MARKING, WORDS, EPOXY	EACH	1.00	1.00
64790	PAVEMENT MARKING, ISLAND NOSE, EPOXY	EACH	2.00	2.00
65040	CONSTRUCTION STAKING, STORM SEWER SYSTEM	EACH	50.00	50.00
65045	CONSTRUCTION STAKING, SUBGRADE	L.F.	3,153.00	3,153.00
65050	CONSTRUCTION STAKING, CRUSHED AGGREGATE BASE COURSE	L.F.	150.00	150.00
65055	CONSTRUCTION STAKING, CURB, GUTTER, CURB & GUTTER	L.F.	150.00	150.00
65070	CONSTRUCTION STAKING, CONCRETE PAVEMENT	L.F.	3,003.00	3,003.00
65216	NONMETALLIC CONDUIT, SCHEDULE 40, 1-INCH	L.F.	130.00	130.00
65219	NONMETALLIC CONDUIT, SCHEDULE 40, 2-INCH	L.F.	6.00	6.00
65250	LOOP DETECTOR CONDUIT	L.F.	110.00	110.00
65301	PULL BOXES, STEEL, 12 X 24-INCH	EACH	2.00	2.00
65401	CONCRETE BASES, TYPE 1	EACH	1.00	1.00
65580	LOOP DETECTOR LEAD IN CABLE	L.F.	572.00	572.00
65585	LOOP DETECTOR WIRE	L.F.	334.00	334.00
66501	SAWING EXISTING PAVEMENT	L.F.	232.00	232.00
66502	SAWING CONCRETE PAVEMENT, FULL DEPTH	L.F.	90.00	90.00
90005A	EROSION CONTROL FILTER BAGS, DELIVERED	EACH	200.00	200.00
90005B	EROSION CONTROL FILTER BAGS, INSTALLED	EACH	200.00	200.00
90005C	EROSION CONTROL FILTER BAGS, MAINTENANCE	EACH	200.00	200.00
90030	6-INCH MINI STORM SEWER	L.F.	53.00	53.00

ESTIMATE OF QUANTITIES

DATE 01/07/03

ITEM	ITEM DESCRIPTION	Unit	TOTAL	CTH JJ QUANTITY
20102	CLEARING	I.D.	180.00	180.00
20105	GRUBBING	I.D	180.00	180.00
20401	REMOVING PAVEMENT	S.Y.	94.00	94.00
20405	REMOVING CURB AND GUTTER	L.F.	190.00	190.00
20408	REMOVING MASONRY	C.Y.	12.00	12.00
20412	REMOVING FENCE	L.F.	275.00	275.00
20501	COMMON EXCAVATION	C.Y.	6,000.00	6,000.00
21301	FINISHING ROADWAY	LS	1.00	1.00
30404	CRUSHED AGGREGATE BASE COURSE	TON	6,500.00	6,500.00
30407	SALVAGED CRUSHED AGGREGATE BASE COURSE	C.Y.	1,300.00	1,300.00
30426	BREAKER RUN STONE	TON	200.00	200.00
40204	ASPHALTIC MATERIAL FOR TACK COAT	GAL	15.00	15.00
40501	ASPHALTIC MATERIAL FOR PLANT MIXES	TON	7.00	7.00
40723	ASPHALTIC CONCRETE PAVEMENT, TYPE E-3	TON	120.00	120.00
41101	ASPHALTIC SURFACE	TON	400.00	400.00
41509	CONCRETE PAVEMENT, 9-INCH	S.Y.	9,700.00	9,700.00
41605	CONCRETE DRIVEWAY, 6-INCH	S.Y.	300.00	300.00
41653	PAVEMENT TIES	EACH	21.00	21.00
41665	CONCRETE PAVEMENT GAPS	EACH	2.00	2.00
50409	CONCRETE MASONRY, ENDWALLS	C.Y.	14.00	14.00
52260	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 12-INCH	EACH	2.00	2.00
52340	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CULVERT PIPE, CLASS HE-III, 29 X 45-INCH	L.F.	128.00	128.00
60123	CONCRETE CURB AND GUTTER, 30-INCH, TYPE A	L.F.	4,660.00	4,660.00
60133	CONCRETE CURB AND GUTTER, 30-INCH, TYPE D	L.F.	150.00	150.00
60210	CONCRETE LOADING ZONE	S.F.	1,690.00	1,690.00
60604	MEDIUM RANDOM RIPRAP	C.Y.	120.00	120.00
60825	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 12-INCH	L.F.	1,330.00	1,330.00
60826	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 15-INCH	L.F.	835.00	835.00
60827	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 18-INCH	L.F.	118.00	118.00
61006	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CULVERT PIPE, CLASS HE-III, STORM SEWER, 29 X 45-INCH	L.F.	21.00	21.00
61110	MANHOLES, TYPE 1	EACH	11.00	11.00
61112	MANHOLES, TYPE 3	EACH	1.00	1.00
61122	INLETS, TYPE 3	EACH	20.00	20.00
61123	INLETS, TYPE 8	EACH	12.00	12.00
61151	MANHOLE COVERS, TYPE J	EACH	11.00	11.00
61156	INLET COVERS, TYPE H-S	EACH	6.00	6.00
61163	INLET COVERS, TYPE C	EACH	1.00	1.00
61167	INLET COVERS, TYPE H	EACH	14.00	14.00
61170	INLET COVERS, TYPE MS	EACH	12.00	12.00
61182	ADJUSTING MANHOLE COVERS	EACH	2.00	2.00

MANHOLES. INLETS. AND COVERS

STRUCTURE NUMBER	LOCATION STATION	RL	OFFSET DIST. (FEET)	DIR.	STRUCTURE	52260 ENDWALL SIZE (INCHES)	61110 MANHOLE TYPE 1 EACH	61112 MANHOLE TYPE 3 EACH	61122 INLET TYPE 3 EACH	61123 INLET TYPE 8 EACH	61151 MANHOLE COVERS TYPE J EACH	61156 INLET COVERS TYPE H-S EACH	61163 INLET COVERS TYPE C EACH	61167 INLET COVERS TYPE H EACH	61170 INLET COVERS TYPE MS EACH	TOP OF COVER/ FLANGELINE ELEVATION	TOP OF STRUCTURE ELEVATION	INVERT ELEVATION	STRUCTURE DEPTH (FT)	REMARKS
10.1	24 + 20.	EB	25.50	RT	INLET	---	---	---	1	---	---	---	---	1	---	770.68	769.68	767.93	1.75	
10.2	24 + 20.	EB	40.00	RT	MANHOLE	---	---	1	---	---	1	---	---	---	---	770.85	769.85	766.76	3.09	
10.3	24 + 33.	EB	56.00	RT	WINGWALL	---	---	---	---	---	---	---	---	---	---	---	---	766.70	---	
11.1	24 + 62.	EB	56.00	RT	WINGWALL	---	---	---	---	---	---	---	---	---	---	---	---	766.70	---	
12.1	25 + 00.	EB	28.23	LT	INLET	---	---	---	1	---	---	---	---	1	---	770.33	769.33	767.23	2.10	
12.2	25 + 00.	EB	0.00	RT	MANHOLE	---	1	---	---	---	1	---	---	---	---	770.84	769.84	766.78	3.06	
13.1	25 + 48.	EB	27.26	LT	INLET	---	---	---	1	---	---	1	---	---	---	770.20	769.20	767.15	2.05	
13.2	25 + 50.	EB	50.00	RT	ENDWALL	12	---	---	---	---	---	---	---	---	---	---	---	769.50	---	
13.3	25 + 50.	EB	25.50	RT	INLET	---	---	---	1	---	---	1	---	---	---	770.20	769.20	767.15	2.05	
13.4	25 + 50.	EB	0.00	RT	MANHOLE	---	1	---	---	---	1	---	---	---	---	770.68	769.68	766.85	2.83	
14.1	28 + 00.	EB	38.00	LT	ENDWALL	12	---	---	---	---	---	---	---	---	---	---	---	769.00	---	
14.2	28 + 00.	EB	25.50	LT	INLET	---	---	---	1	---	---	---	---	1	---	771.16	770.16	767.75	2.41	
14.3	28 + 00.	EB	56.00	RT	INLET	---	---	---	---	1	---	---	---	---	1	770.01	770.01	767.81	2.20	
14.4	28 + 00.	EB	25.50	RT	INLET	---	---	---	1	---	---	---	---	1	---	771.16	770.16	767.75	2.41	
14.5	28 + 00.	EB	0.00	RT	MANHOLE	---	1	---	---	---	1	---	---	---	---	771.64	770.64	767.60	3.04	
15.1	33 + 15.	EB	25.50	LT	INLET	---	---	---	1	---	---	---	---	1	---	770.70	769.70	767.77	1.93	
15.2	33 + 40.	EB	35.00	LT	INLET	---	---	---	---	1	---	---	---	---	1	770.00	770.00	767.72	2.28	
15.3	33 + 40.	EB	25.50	LT	INLET	---	---	---	1	---	---	1	---	---	---	770.64	769.64	767.70	1.94	
15.4	33 + 15.	EB	25.50	RT	INLET	---	---	---	1	---	---	---	---	1	---	770.70	769.70	767.77	1.93	
15.5	33 + 40.	EB	53.00	RT	INLET	---	---	---	---	1	---	---	---	---	1	770.00	770.00	767.75	2.25	
15.6	33 + 40.	EB	25.50	RT	INLET	---	---	---	1	---	---	1	---	---	---	770.64	769.64	767.70	1.94	
15.7	33 + 40.	EB	0.00	RT	MANHOLE	---	1	---	---	---	1	---	---	---	---	771.12	770.12	767.55	2.57	
16.1	35 + 25.	EB	25.50	LT	INLET	---	---	---	1	---	---	---	---	1	---	771.34	770.34	767.34	3.00	
16.2	35 + 25.	EB	0.00	RT	MANHOLE	---	1	---	---	---	1	---	---	---	---	771.82	770.82	767.16	3.66	
16.3	35 + 54.	EB	28.71	RT	INLET	---	---	---	1	---	---	---	---	1	---	771.43	770.43	767.43	3.00	
16.4	35 + 25.	EB	42.00	RT	EXIST. MH	---	---	---	---	---	---	---	---	---	---	771.23	---	766.95	---	ADJUST COVER
17.1	36 + 00.	EB	35.00	LT	INLET	---	1	---	---	---	1	---	---	---	---	771.00	771.00	768.00	3.00	
17.2	36 + 00.	EB	0.00	LT	MANHOLE	---	---	---	---	1	---	---	---	---	1	772.12	771.12	767.68	3.44	
18.1	37 + 55.	EB	35.00	LT	INLET	---	---	---	---	1	---	---	---	---	1	772.00	772.00	768.28	3.72	
18.2	37 + 50.	EB	25.50	LT	INLET	---	---	---	1	---	---	---	---	1	---	772.24	771.24	768.25	2.99	
18.3	37 + 50.	EB	55.00	RT	INLET	---	---	---	---	1	---	---	---	---	1	771.50	771.50	768.34	3.16	
18.4	37 + 50.	EB	25.50	RT	INLET	---	---	---	1	---	---	---	---	1	---	772.24	771.24	768.25	2.99	
18.5	37 + 50.	EB	0.00	RT	MANHOLE	---	1	---	---	---	1	---	---	---	---	772.72	771.72	768.13	3.59	
19.1	39 + 00.	EB	38.00	LT	INLET	---	---	---	---	1	---	---	---	---	1	772.10	772.10	768.83	3.27	
19.2	39 + 65.	EB	38.00	LT	INLET	---	---	---	---	1	---	---	---	---	1	772.00	772.00	768.88	3.12	
19.3	39 + 45.	EB	55.00	RT	INLET	---	---	---	---	1	---	---	---	---	1	771.50	771.50	768.88	2.62	
19.4	39 + 20.	EB	0.00	RT	MANHOLE	---	1	---	---	---	1	---	---	---	---	773.36	772.36	768.64	3.72	
20.1	43 + 02.	EB	26.68	LT	INLET	---	---	---	1	---	---	---	---	1	---	771.57	770.57	768.75	1.82	
20.2	43 + 27.	EB	27.51	LT	INLET	---	---	---	1	---	---	1	---	---	---	771.52	770.52	768.65	1.87	
20.3	43 + 00.	EB	24.35	RT	INLET	---	---	---	1	---	---	---	---	1	---	771.58	770.58	768.75	1.83	
20.4	43 + 25.	EB	23.52	RT	INLET	---	---	---	1	---	---	1	---	---	---	771.54	770.54	768.65	1.89	
20.5	43 + 25.	EB	1.60	LT	MANHOLE	---	1	---	---	---	1	---	---	---	---	772.02	771.02	768.50	2.52	
21.1	43 + 98.25	EB	42.00	LT	INLET	---	---	---	---	1	---	---	---	---	1	772.20	772.20	768.57	3.63	
21.2	43 + 98.55	EB	30.70	LT	INLET	---	---	---	1	---	---	---	---	1	---	771.83	770.83	768.55	2.28	
21.3	44 + 00.	EB	53.00	RT	INLET	---	---	---	---	1	---	---	---	---	1	771.50	771.50	768.61	2.89	
21.4	44 + 00.	EB	23.50	RT	INLET	---	---	---	1	---	---	---	---	1	---	771.89	770.89	768.55	2.34	
21.5	44 + 00.	EB	3.60	LT	MANHOLE	---	1	---	---	---	1	---	---	---	---	772.80	771.30	768.40	2.90	
22.1	45 + 47.74	EB	50.00	LT	INLET	---	---	---	---	1	---	---	---	---	1	772.00	772.00	768.56	3.44	
22.2	45 + 50.	EB	9.00	LT	MANHOLE	---	1	---	---	---	---	---	1	---	---	773.09	772.09	768.19	3.90	
23.1	46 + 83.	EB	8.00	LT	EXIST. STUB	---	---	---	---	---	---	---	---	---	---	---	---	768.00	---	
					TOTALS	2 ✓	11 ✓	1 ✓	20 ✓	12 ✓	11 ✓	6 ✓	1 ✓	14 ✓	12 ✓					

CROSS DRAINS

STATION	LOCATION	DIR	NUMBER OF PIPES	SIZE INCHES	52340 TOTAL LENGTH FEET	TYPE CLASS	INLET ELEVATION	DISCHARGE ELEVATION	APRON ENDWALLS EACH	50409 CONCRETE MASONRY ENDWALL CY	COMMENTS
24 + 50	CTH JJ	LT	4	29 X 45	32	RCHECP III	767.26	767.0 +/-	---	7	EXTEND EXISTING PIPES
24 + 50	CTH JJ	RT	4	29 X 45	96	RCHECP III	766.8 +/-	766.70	---	7	EXTEND EXISTING PIPES
				TOTALS	128 ✓					14 ✓	

NOTE: EXISTING ENDWALLS ARE TO BE REMOVED AND NEW CONCRETE MASONRY ENDWALLS ARE TO BE CONSTRUCTED.

ADJUSTING MANHOLE COVERS

STATION	LOCATION	61182 EACH
22+58.27'RT	CTH JJ	1 ✓
35+24.43'RT	CTH JJ	1 ✓
	TOTALS	2 ✓

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

STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	MISCELLANEOUS QUANTITIES	SCALE, FEET 0	SHEET NO: 15.	E

FILE NAME : f:\transportation\e1510a00\sheets\plan\e1510mql2dg
PLOT DATE: 10 AUG 2001 14:46:27 ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE :
WISDOT/CADDS SHEET 42

STORM SEWER SUMMARY

LOCATION FROM	To	60825 12 IN. L.F.	RCP CLASS III 60826 15 IN. L.F.	60827 18 IN. L.F.	RCHEP CLASS HE-III 61006 29X45 IN L.F.	INLET ELEVATION	DISCHARGE ELEVATION
10.1	10.2	14.5	---	---	---	767.93	767.89
10.2	10.3	---	---	---	20.6	766.76	766.70
12.1	12.2	28.2	---	---	---	767.23	767.17
12.2	11.1	---	---	67.7	---	766.78	766.70
13.1	13.4	27.3	---	---	---	767.15	767.10
13.2	13.3	24.5	---	---	---	769.50	767.15
13.3	13.4	25.5	---	---	---	767.15	767.10
13.4	12.2	---	---	50.0	---	766.85	766.79
14.1	14.2	12.5	---	---	---	769.00	768.98
14.2	14.5	25.5	---	---	---	768.98	768.92
14.3	14.4	30.5	---	---	---	767.81	767.75
14.4	14.5	25.5	---	---	---	767.75	767.70
14.5	13.4	---	250.0	---	---	767.60	767.10
15.1	15.3	25.0	---	---	---	767.77	767.72
15.2	15.3	9.5	---	---	---	767.72	767.70
15.3	15.7	25.5	---	---	---	767.70	767.65
15.4	15.6	25.0	---	---	---	767.77	767.72
15.5	15.6	27.5	---	---	---	767.75	767.70
15.6	15.7	25.5	---	---	---	767.70	767.65
15.7	16.2	---	185.0	---	---	767.55	767.18
16.1	16.2	25.5	---	---	---	767.34	767.29
16.2	16.4	---	42.0	---	---	767.16	766.95
16.3	16.4	31.9	---	---	---	767.43	767.21
16.4	SOUTH	---	0.1	---	---	766.95	766.95
17.1	17.2	35.0	---	---	---	768.00	767.90
17.2	16.2	75.0	---	---	---	767.68	767.46
18.1	18.2	10.7	---	---	---	768.28	768.25
18.2	18.5	25.5	---	---	---	768.25	768.17
18.3	18.4	29.5	---	---	---	768.34	768.25
18.4	18.5	25.5	---	---	---	768.25	768.18
18.5	17.2	150.0	---	---	---	768.13	767.68
19.1	19.4	43.0	---	---	---	768.83	768.70
19.2	19.4	58.9	---	---	---	768.88	768.70
19.3	19.4	60.4	---	---	---	768.88	768.70
19.4	18.5	170.0	---	---	---	768.64	768.13
20.1	20.2	25.0	---	---	---	768.75	768.70
20.2	20.5	26.0	---	---	---	768.65	768.60
20.3	20.4	25.0	---	---	---	768.75	768.70
20.4	20.5	25.1	---	---	---	768.65	768.60
20.5	21.5	---	75.0	---	---	768.50	768.40
21.1	21.2	11.3	---	---	---	768.57	768.55
21.2	21.5	27.1	---	---	---	768.55	768.49
21.3	21.4	29.5	---	---	---	768.61	768.55
21.4	21.5	27.1	---	---	---	768.55	768.50
21.5	22.2	---	150.1	---	---	768.40	768.19
22.1	22.2	41.1	---	---	---	768.56	768.44
22.2	23.1	---	133.0	---	---	768.19	768.00
TOTALS		1330.1	835.2	117.7	20.6		

REMOVING CURB AND GUTTER

STATION TO STATION	LOCATION	20405 L.F.
22+60 - 24+00.RT	CTH JJ	140
	BABCOCK ST	50
	TOTALS	190

REMOVING MASONRY

STATION	LOCATION		20408 C.Y.
24+50.LT	CTH JJ	ENDWALLS	6
24+50.RT	CTH JJ	ENDWALLS	6
	TOTALS		12

REMOVING FENCE

STATION TO STATION	LOCATION	20412 L.F.
28+15 - 29+20.RT	CTH JJ	137
30+05 - 31+00.RT	CTH JJ	138
	TOTALS	275

ASPHALTIC ITEMS

~~426 gal~~ 1,195 SY

STATION TO STATION	LOCATION	40204 ASPHALTIC MATERIAL FOR TACK COAT GAL	40501 ASPHALTIC MATERIAL FOR PLANT MIX TON	40723 ASPHALTIC CONCRETE PAVEMENT TYPE E-3 TON	41101 ASPHALTIC SURFACE TON
22+60 - 23+80	CTH JJ	12	6	110	---
	BABCOCK ST	3	1	10	---
	DRIVEWAYS	---	---	---	10
21+14 - 47+00	SIDEWALK	---	---	---	390
	TOTALS	15	7	120	400

CONCRETE PAVEMENT, 9-INCH

STATION TO STATION	LOCATION	41509 S.Y.
23+80 - 26+00	CTH JJ	900
26+00 - 32+00	CTH JJ	2420
32+00 - 38+00	CTH JJ	2540
38+00 - 43+90	CTH JJ	2380
43+90 - 46+93	CTH JJ	1460
	TOTALS	9700

CONCRETE DRIVEWAY, 6-INCH

STATION	LOCATION	41605 S.Y.
21+50. RT	CTH JJ	35
23+20. RT	CTH JJ	23
24+80. RT	CTH JJ	24
26+50. RT	CTH JJ	28
35+41. LT	CTH JJ	28
37+25. LT	CTH JJ	20
38+59. LT	CTH JJ	25
39+40. LT	CTH JJ	16
40+20. LT	CTH JJ	18
42+10. LT	CTH JJ	28
44+25. RT	CTH JJ	16
44+90. RT	CTH JJ	39
31+90 LT	"	5 SY
	TOTALS	300 305

WATER

STATION	LOCATION	62401 WATER MGAL
UNDISTRIBUTED	COMPACTION	50
UNDISTRIBUTED	DUST CONTROL	10
	TOTALS	60

CRUSHED AGGREGATE BASE COURSE AND BREAKER RUN STONE

STATION TO STATION	LOCATION	30404 CRUSHED AGGREGATE BASE COURSE TONS	30407 SALVAGED CRUSHED AGGREGATE BASE COURSE C.Y.	30426 BREAKER RUN STONE TONS
22+59 - 26+00	. CTH JJ	700	140	---
22+59 - 26+00	. DRIVEWAYS	30	---	---
22+59 - 26+00	. SIDEWALK	380	---	---
26+00 - 32+00	. CTH JJ	860	250	---
26+00 - 32+00	. DRIVEWAYS	20	---	---
26+00 - 32+00	. SIDEWALK	560	---	---
26+60 - 27+60	. PARKING LOT	50	---	---
32+00 - 38+00	. CTH JJ	830	250	---
32+00 - 38+00	. DRIVEWAYS	30	---	---
32+00 - 38+00	. SIDEWALK	560	---	---
	BABCOCK ST	90	---	---
38+00 - 43+90	. CTH JJ	820	250	---
38+00 - 43+90	. DRIVEWAYS	30	---	---
38+00 - 43+90	. SIDEWALK	550	---	---
43+90 - 46+93	. CTH JJ	570	110	---
43+90 - 46+93	. DRIVEWAYS	30	---	---
43+90 - 46+93	. SIDEWALK	290	---	---
UNDISTRIBUTED		100	---	---
TEMPORARY ACCESS ROADS		---	100	---
EBS AREAS		---	200	200
	TOTALS	6500	1300	200

CONCRETE PAVEMENT GAPS

STATION	LOCATION		41665 EACH
26+50. RT	CTH JJ	DRIVEWAY	1
42+10. RT	CTH JJ	DRIVEWAY	1
	TOTALS		2

PAVEMENT TIES

STATION	LOCATION	41653 EACH
46+94	CTH JJ	21
	TOTALS	21

REMOVING PAVEMENT

STATION	LOCATION		20401 S.Y.
21+50. RT	CTH JJ	DRIVEWAY	33
38+59. LT	CTH JJ	DRIVEWAY	5
40+20. LT	CTH JJ	DRIVEWAY	3
44+90. RT	CTH JJ	DRIVEWAY	53
	TOTALS		94

CLEARING AND GRUBBING

STATION TO STATION	LOCATION	20102 CLEARING DIA. IN.	20105 GRUBBING DIA. IN.
22+60 - 26+00	CTH JJ	12	12
26+00 - 32+00	CTH JJ	80	80
32+00 - 38+00	CTH JJ	40	40
38+00 - 43+90	CTH JJ	20	20
43+90 - 46+93	CTH JJ	28	28
	TOTALS	180	180

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, 59,60,

STATE PROJECT NUMBER: | HWY: CTH JJ | COUNTY: WINNEBAGO | MISCELLANEOUS QUANTITIES | SCALE, FEET | SHEET NO: 16. | E

FILE NAME : F:\Transportation\E1510A00\SHEETS\PLAN\e1510mq2.2dg PLOT DATE: 01/09/2003 08:13:08 AM ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 42

CONCRETE CURB & GUTTER. 30-INCH. TYPE A

STATION TO STATION	LOCATION	60123 L.F.
23+80 – 26+00.RT	CTH JJ	220
23+50 – 26+00.LT	CTH JJ	250 220
26+00 – 32+00.RT	CTH JJ	600
26+00 – 32+00.LT	CTH JJ	600
32+00 – 38+00.RT	CTH JJ	514 600
32+00 – 38+00.LT	CTH JJ	600
38+00 – 43+90.RT	CTH JJ	590
38+00 – 43+90.LT	CTH JJ	590
43+90 – 46+94.RT	CTH JJ	305 304
43+90 – 46+94.LT	CTH JJ	305 304
TOTALS		4660 4602

CONCRETE CURB & GUTTER. 30-INCH. TYPE D

STATION TO STATION	LOCATION	60133 L.F.
22+60 – 23+80.RT	CTH JJ	120
23+50 – 23+80.LT	CTH JJ	30
TOTALS		150

CONCRETE LOADING ZONE

STATION TO STATION	LOCATION	60210 S.F.
43+57 – 47+32	CTH JJ	1690
TOTALS		1690

LANDSCAPING ITEMS

STATION TO STATION	LOCATION	62501 TOPSOIL S.Y.	62702 MULCHING S.Y.	62905 FERT. TYPE B CWT	63011 SEEDING NO. 40 LB
21+14 – 26+00.RT	CTH JJ	1160	1160	1	20
21+90 – 26+00.LT	CTH JJ	590	590	0.5	8
26+00 – 32+00.RT	CTH JJ	1390	1390	1	25
26+00 – 32+00.LT	CTH JJ	940	940	0.5	13
32+00 – 38+00.RT	CTH JJ	1180	1180	0.5	21
32+00 – 38+00.LT	CTH JJ	735	735	0.5	11
38+00 – 43+90.RT	CTH JJ	1165	1165	0.5	21
38+00 – 43+90.LT	CTH JJ	950	950	0.5	14
43+90 – 47+00.RT	CTH JJ	750	750	0.5	13
43+90 – 47+00.LT	CTH JJ	490	490	0.5	9
UNDISTRIBUTED		350	350	1	15
TOTALS		9700	9700	7	170

EROSION CONTROL ITEMS

STATION TO STATION	LOCATION	60604 MEDIUM RANDOM RIPRAP C.Y.	62811 EROSION BALES DELIVERED EACH	62812 EROSION BALES INSTALLED EACH	62815 SILT FENCE DELIVERED L.F.	62816 SILT FENCE INSTALLED L.F.	62819 SILT FENCE MAINT. L.F.	62820 MOBILIZATIONS EROSION CONTROL EACH	62821 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	62840 EROSION MAT DELIVERED CLASS III TYPE A S.Y.	62841 EROSION MAT DELIVERED CLASS III TYPE A S.Y.	64505 GEOTEXTILE FABRIC TYPE R S.Y	90005A FILTER BAGS DELIVERED EACH	90005B FILTER BAGS INSTALLED EACH	90005C FILTER BAGS MAINT. EACH
22+60 – 26+00	CTH JJ	120	20	20	500	500	1000	—	—	150	150	250	20	20	20
26+00 – 32+00	CTH JJ	—	—	—	100	100	200	—	—	—	—	—	10	10	10
32+00 – 38+00	CTH JJ	—	—	—	50	50	100	—	—	—	—	—	40	40	40
38+00 – 43+90	CTH JJ	—	—	—	50	50	100	—	—	—	—	—	30	30	30
43+90 – 46+94	CTH JJ	—	—	—	50	50	100	—	—	—	—	—	30	30	30
UNDISTRIBUTED		—	20	20	150	150	300	2	3	150	150	—	70	70	70
TOTALS		120	40	40	900	900	1800	2	3	300	300	250	200	200	200

PAVEMENT MARKING. EPOXY

STATION TO STATION	LOCATION	64602 CENTER LINE 4-INCH L.F.	64602 LANE LINE 4-INCH L.F.	64602 EDGE LINE 4-INCH L.F.	64618 CHANNELIZING 8-INCH L.F.	64710 STOP LINE 18-INCH L.F.	64602 DIAGONALS 4-INCH L.F.	64718 CROSSWALK 6-INCH L.F.
22+50 – 26+00	CTH JJ	—	125	1010	—	—	70	—
26+00 – 32+00	CTH JJ	1200	300	—	—	—	—	—
32+00 – 38+00	CTH JJ	1200	300	—	—	—	—	—
38+00 – 43+90	CTH JJ	1000	300	180	—	—	—	—
43+90 – 46+93	CTH JJ	—	175	610	260	30	—	—
	BABCOCK STREET	100	—	—	—	15	—	75
	TULLAR ROAD	—	—	—	—	—	—	190
TOTALS		3500	1200	1800	260	45	70	265

PAVEMENT MARKING. ARROWS. WORDS AND ISLAND NOSES. EPOXY

STATION TO STATION	LOCATION	64724 ARROWS TYPE 2 EACH	64758 WORDS EACH	64790 ISLAND NOSE EACH
38+00 – 43+90	CTH JJ	—	—	1
43+90 – 46+93	CTH JJ	2	1	1
TOTALS		2	1	2

NON-METALLIC CONDUIT. SCHEDULE 40

FROM	TO	65216 1-INCH LF	65219 2-INCH LF
PB17	PB16	100	—
PB16	PB7	30	—
SB4R	PB7	—	6
TOTALS		130	6

PULL BOXES

NUMBER	LOCATION	65301 12 X 24-INCH EACH	24 X 36-INCH EACH
PB7	47+07. 30.5 RT CTH JJ	—	EXISTING
PB16	45+80. 25.5 RT CTH JJ	1	—
PB17	46+80. 25.5 RT CTH JJ	1	—
TOTALS		2	

LOOP DETECTORS

LOOP PHASE NUMBER	LOCATION	SIZE FT X FT	NO. TURNS	65250 LOOP DETECTOR CONDUIT LF	65580 LOOP DETECTOR LEAD-IN CABLE LF	65585 LOOP DETECTOR WIRE LF
22	45+80.RT CTH JJ	5 X 18	3	53	336	158
52	46+80.LT CTH JJ	6 X 8	4	57	236	176
TOTALS				110	572	334

TRAFFIC SIGNAL BASE

NUMBER	LOCATION	65401 CONCRETE BASE TYPE 1 EACH	COMMENTS
SB4	47+01.29 RT CTH JJ	—	EXISTING
SB4R	47+12.32.5 RT CTH JJ	1	REPLACES SB4
TOTALS		1	

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

STATE PROJECT NUMBER: | HWY: CTH JJ | COUNTY: WINNEBAGO | MISCELLANEOUS QUANTITIES | SCALE, FEET | SHEET NO: 17. | E

FILE NAME : f:\transportation\e1510a00\sheets\plan\e1510mq3.2dg PLOT DATE: 10 AUG 2001 15:12:11 ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE :
WISDOT/CADDS SHEET 42

SAWING EXISTING PAVEMENT

STATION TO STATION	LOCATION	66501 L.F.
22+60	CTH JJ	18
23+50	CTH JJ	31
22+60 – 23+50	CTH JJ	90
23+20, RT	CTH JJ	20
	BABCOCK ST	33
37+30, LT	CTH JJ	17
42+10, LT	CTH JJ	23
46+93.73		65
	TOTALS	~~232~~ 297

SAWING CONCRETE PAVEMENT, FULL DEPTH

STATION	LOCATION	66502 L.F.
21+50	RT CTH JJ	15
38+59	LT CTH JJ	22
40+20	LT CTH JJ	14
44+90	RT CTH JJ	39
	TOTALS	90

MINI STORM SEWER

STATION	LOCATION	DIRECTION	90030 MINI STORM SEWER 6-INCH L.F.	COMMENTS	PROPERTY OWNER
28+00	CTH JJ	RT	5	STUB OUT OF STRUCTURE 14.3	RODNEY & BONNIE FISCHER
36+00	CTH JJ	LT	5	STUB OUT OF STRUCTURE 17.1	KATHLEEN BARKER
37+55	CTH JJ	LT	5	STUB OUT OF STRUCTURE 18.1	DONALD & ARDYSS DETRA
37+55	CTH JJ	LT	5	STUB OUT OF STRUCTURE 18.1	MARLENE ZIESEMER
39+00	CTH JJ	LT	5	STUB OUT OF STRUCTURE 19.1	TY & CARLA STEWARD
39+65	CTH JJ	LT	5	STUB OUT OF STRUCTURE 19.2	DENNIS & KAREN HEIMER
43+02	CTH JJ	LT	14	STUB OUT OF STRUCTURE 20.1	NEENAH, WI. CONGREGATION OF JEHOVAH'S WITNESSES, INC.
44+00	CTH JJ	RT	5	STUB OUT OF STRUCTURE 21.3	HAROLD & LOIS KEMP
45+48	CTH JJ	LT	4	STUB OUT OF STRUCTURE 22.1	WILLIAM DE MEUSE
TOTALS			53		

CHAIN LINK FENCE, 4FT

STATION	LOCATION	61610 L.F.
24+50	RT CTH JJ	35
	TOTALS	35

COMMON EXCAVATION AND YARDAGE SUMMARY

STATION TO STATION	LOCATION	COMMON EXCAVATION C.Y.	FILL C.Y.	EXPANDED FILL C.Y.	WASTE C.Y.
21+50 – 47+00	CTH JJ	6000	2784	3619	2381

CONSTRUCTION STAKING

STATION TO STATION	LOCATION	65040 CONSTRUCTION STAKING STORM SEWER SYSTEM EACH	65045 CONSTRUCTION STAKING SUBGRADE LF	65050 CONSTRUCTION STAKING CABC LF	65055 CONSTRUCTION STAKING CURB, GUTTER, CURB & GUTTER LF	65070 CONSTRUCTION STAKING CONCRETE PAVEMENT LF
22+60 – 26+00	CTH JJ	10	590	150	150	440
26+00 – 32+00	CTH JJ	5	640	---	---	640
32+00 – 38+00	CTH JJ	18	600	---	---	600
38+00 – 43+90	CTH JJ	9	715	---	---	715
43+90 – 46+93	CTH JJ	8	608	---	---	608
	TOTALS	50	3153	150	150	3003

EARTHWORK

STATION	CTH JJ CUT AREA (SF)	CUT VOL (CY)	FILL AREA (SF)	FILL VOL (CY)
2114	1	0	5	0
2150	3	3	8	9
2200	1	3	12	19
2260	26	30	13	28
2300	45	53	13	19
2350	109	142	16	27
2400	76	171	71	80
2450	79	144	134	190
2500	78	146	47	167
2550	95	160	30	71
2600	89	170	26	52
2650	96	172	8	32
2700	57	142	22	28
2750	49	98	29	47
2800	41	83	42	66
2850	30	66	43	79
2900	22	48	44	80
2950	14	33	58	94
3000	9	21	68	117
3050	10	18	73	131
3100	19	27	63	126
3150	30	46	45	100
3200	49	74	39	77
3250	56	97	15	50
3300	75	121	7	21
3350	79	143	9	15
3400	78	146	8	16
3450	69	137	10	17

STATION	CTH JJ (CONT) CUT AREA (SF)	CUT VOL (CY)	FILL AREA (SF)	FILL VOL (CY)
3500	88	146	2	11
3550	98	172	8	9
3600	74	159	12	18
3650	74	137	11	21
3700	70	133	10	19
3750	56	117	23	30
3800	51	99	20	40
3850	54	97	19	36
3900	32	80	31	46
3950	30	58	26	52
4000	43	68	24	46
4050	55	91	12	33
4100	73	119	7	18
4150	90	151	6	12
4200	120	194	3	8
4250	134	236	4	7
4300	148	262	6	9
4350	133	260	9	14
4400	102	217	19	26
4450	82	170	32	47
4500	78	148	8	37
4550	45	114	57	60
4600	35	74	86	134
4650	49	79	86	159
4700	86	125	59	134
TOTALS		6000		2784

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

STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	MISCELLANEOUS QUANTITIES	SCALE, FEET 0	SHEET NO: 18	E

FILE NAME : F:\Transportation\E1510A00\SHEETS\PLAN\e1510mq4.2dg PLOT DATE: 01/09/2003 08:12:32 AM ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE : WISDOT/CADDS SHEET 42

WINNEBAGO COUNTY

LEVELS ON = 01, 02, 03, 04, 05, 06, 07, 08, 09, 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, 51, 52, 53, 54, 55, 59, 60, 61, 62, 63

Conventional Signs and Abbreviations

SECTION LINE	AC	ACRES	R	RADIUS
QUARTER LINE	Δ	CENTRAL ANGLE	R.	RANGE
TOWNSHIP AND RANGE LINE	C/L	CENTERLINE	REF	REFERENCE LINE
PROPOSED OR NEW CENTERLINE	COR.	CORNER	R/L	REFERENCE LINE
PROPOSED OR NEW R/W LINE	CTH	COUNTY TRUNK HIGHWAY	R/W	RIGHT OF WAY
EXISTING R/W LINE	D	DEGREE OF CURVE	S.	SOUTH
LOT LINE	E.	EAST	SEC	SECTION
PROPERTY LINE	L	LENGTH OF CURVE	SL	SECTION LINE
CITY LINE LIMITS	LC	LONG CHORD	STH	STATE TRUNK HIGHWAY
SLOPE INTERCEPTS	LCB	LONG CHORD BEARING	SF	SQUARE FEET
R/W POINT	MI	MILE	STA	STATION
FENCE	N.	NORTH	T.	TOWN
SECTION OR QUARTER CORNER	PC	POINT OF CURVATURE	T	TANGENT LENGTH OF CURVE
POWER POLE	PI	POINT OF INTERSECTION	TI	TEMPORARY INTEREST
TELEPHONE PEDESTAL	PT	POINT OF TANGENCY	USH	UNITED STATES HIGHWAY
UNDERGROUND TELEPHONE CABLE	PLE	PERMANENT LIMITED EASEMENT	W.	WEST

TEMPORARY INTEREST

NO ACCESS (BY ACQUISITION)

NO ACCESS (BY STATUTORY AUTHORITY)

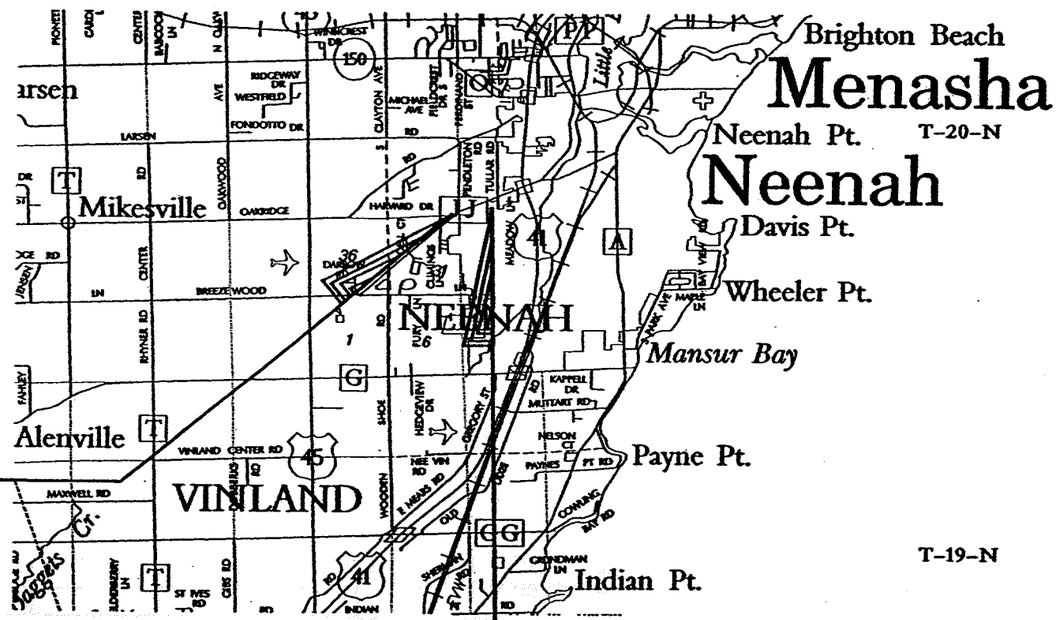
NO ACCESS (BY PREVIOUS PROJECT)

RIGHT-OF-WAY TYPE 2 MONUMENTS SET AT NEWLY ACQUIRED R/W ANGLE POINTS

REVISION DATE	R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
4/12/02-NC	FEDERAL PROJECT NUMBER	4.0	5

PLAT OF RIGHT OF WAY REQUIRED FOR
CTH "JJ"
PENDLETON RD TO TULLAR RD
TOWN & CITY OF NEENAH
WINNEBAGO COUNTY

R-17-E



N

BEGIN RELOCATION ORDER

STATION 21+14.30

310.03 FEET NORTH OF AND 108.34 FEET EAST OF THE SOUTHWEST CORNER OF SECTION 29, T20N, R17E

END RELOCATION ORDER

STATION 46+62.81

1195.09 FEET NORTH OF AND 131.44 FEET WEST OF THE SOUTH QUARTER CORNER OF SECTION 29, T20N, R17E

LAYOUT

SCALE 0 ½ 1 MI.

TOTAL NET LENGTH OF CENTERLINE = MI.

Notes

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WINNEBAGO COUNTY COORDINATE SYSTEM. ALL PLAT DISTANCES ARE GROUND LENGTH. THE DIFFERENCE BETWEEN PLAT BEARINGS REPRESENTS PLANE ANGLES IN DEGREES, MINUTES, AND SECONDS.

RIGHT OF WAY MONUMENTS ARE TYPE 2 AND ARE PLACED PRIOR TO OR AT THE TIME OF LAND TITLE TRANSFER FOR ALL LANDS BEING ACQUIRED.

RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY OR OTHER SURVEYS OF PUBLIC RECORD. OTHER INFORMATION IS PROVIDED TO SUPPLEMENT THE BASIC PERIMETER DESCRIPTION AND SHALL NOT BE CONSTRUED TO PREVAIL OVER THE PERIMETER DESCRIPTION.

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

ACCEPTED FOR
WINNEBAGO COUNTY

05/31/01 (Date) John M Haese (Signature)

ORIGINAL PLANS PREPARED BY
OMNI ASSOCIATES
APPLETON WISCONSIN

WISCONSIN
DONALD F. LA COUNT
S-1086
KAUKAUNA, WI
LAND SURVEYOR

MAY 24, 2001 (Date) Donald F. LaCount (Signature)

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

PARCEL NUMBER	SHEET NUMBER	OWNER	INTERST REQUIRED	TOTAL AREA	REQUIRED R/W NEW	REQUIRED EXISTING	REQUIRED TOTAL	TOTAL AREA REM	TI AREA	PLE AREA
1	4.3	THOMAS L. SWIERTZ & JENIFER S. SWIERTZ LAND CONTRACT HENRY MALCHOW & DOROTHY MALCHOW VENDORS	TI	0.56 AC	—	—	—	0.56 AC	0.03 AC	—
2	4.3	MARK R. JENSEN & SUSAN M. JENSEN	FEE TI	1.02 AC	0.01 AC	—	0.01 AC	1.01 AC	0.05 AC	—
3	4.3	RODNEY C. FISCHER & BONNIE M. FISCHER	FEE TI	1.16 AC	0.01 AC	—	0.01 AC	1.15 AC	0.01 AC	—
4	4.3 4.4	MICHELS PIPELINE CONSTRUCTION INC.. A WISCONSIN CORPORATION	FEE	20.01 AC	0.13 AC	—	0.13 AC	19.88 AC	—	—
5	4.3	PEGISUS ENTERPRISES INC.	FEE TI	0.31 AC	0.04 AC	—	0.04 AC	0.27 AC	0.02 AC	—
6	4.3	DOUGLAS K. PAHLOW & CATHY L. PAHLOW	FEE TI	0.38 AC	0.04 AC	—	0.04 AC	0.34 AC	0.02 AC	—
7	4.3	JEFFREY B. LITTLE & JENNIFER L. LITTLE	FEE TI	0.45 AC	0.04 AC	—	0.04 AC	0.41 AC	0.02 AC	—
8	4.3	JAMES R. MITCHELL & ELIZABETH M. MITCHELL	FEE TI	0.49 AC	0.04 AC	—	0.04 AC	0.45 AC	0.02 AC	—
9	4.3 4.4	DAVID H. MILLER & RITA MILLER	FEE TI PLE	38333 SQ FT	3321 SQ FT	—	3321 SQ FT	35012 SQ FT	1853 SQ FT	100 SQ FT
10	4.3	O. M. J. F. & H LLC	FEE. TI. PLE	77537 SQ FT	3485 SQ FT	—	3485 SQ FT	74052 SQ FT	1742 SQ FT	100 SQ FT
11	4.4	MEMORIAL PARK ESTATES CONDOMINIUM	TI PLE	663305 SQ FT	—	—	—	663305 SQ FT	7523 SQ FT	200 SQ FT
12	4.4	KATHLEEN M. BARKER	FEE	2.59 AC	0.03 AC	—	0.03 AC	2.56 AC	—	—
13	4.4	DONALD D. DETRA & ARDYSS I. DETRA	FEE	0.77 AC	0.02 AC	0.10 AC	0.12 AC	0.65 AC	—	—
14	4.4	MARLENE A. ZIESEMER A/K/A/ MARLENE ZEISEMER	FEE	1.24 AC	0.02 AC	0.09 AC	0.11 AC	1.13 AC	—	—
15										
16	4.4	TY R. STEWARD & CARLA M. STEWARD	FEE	0.30 AC	0.01 AC	—	0.01 AC	0.29 AC	—	—
17	4.4	DENNIS D. HEIMER & KAREN J. HEIMER	FEE TI	0.68 AC	0.01 AC	—	0.01 AC	0.67 AC	0.01	—
18	4.4	NEENAH. WISCONSIN. CONGREGATION OF JEHOVAH'S WITNESSES INC.	FEE TI	2.32 AC	0.06 AC	—	0.06 AC	2.26 AC	0.02	—
19	4.4	HAROLD J. KEMP & LOIS J. KEMP	FEE TI PLE	31363 SQ FT	2714 SQ FT	—	2714 SQ FT	28649 SQ FT	2354 SQ FT	100 SQ FT
20										
21	4.4	GERALD E. ORY & SARA J. ORY	FEE TI	0.49 AC	0.04 AC	—	0.04 AC	0.45 AC	0.03 AC	—
22	4.4	WILLIAM E. DE MEUSE	FEE	0.86 AC	0.01 AC	—	0.01 AC	0.85 AC	—	—
23	4.4	BRET D. NOFFKE	FEE TI	0.63 AC	0.01 AC	—	0.01 AC	0.62 AC	0.02 AC	—
50	4.3 4.4	AMERITECH F/K/A/ WISCONSIN TELEPHONE COMPANY	CONVEYANCE OF RIGHTS	—	—	—	—	—	—	—
51	4.3 4.4	TIME WARNER CABLE	CONVEYANCE OF RIGHTS	—	—	—	—	—	—	—
52	4.3 4.4	WISCONSIN ELECTRIC/GAS OPERATIONS	CONVEYANCE OF RIGHTS	—	—	—	—	—	—	—

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

REVISION DATE 04/12/02 - ADDED PARCEL 10

DATE

SCALE, FEET 0

HWY: CTH "JJ"

COUNTY: WINNEBAGO

CONSTRUCTION PROJECT NUMBER

STATE R/W PROJECT NUMBER

PS&E SHEET NO: A. 20

PLAT SHEET NO: 4. 1 E

FILE NAME : $FILE$ PLOT DATE: $DATE$ $TIME$ ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 60

N

NW - SW

NE - SW

SECTION 29

SW - SW

TOWN OF NEENAH

TOWN OF NEENAH

SECTION 29

SW - SW

SE - SW

SECTION 29

CITY OF NEENAH

PENDLETON ROAD (CTH "CB")

CTH "JJ"

TULLAR ROAD

STUART COURT

BABCOCK STREET

BRIAN FALCK &
PATTY FALCK LAND CONTRACT
HENRY MALCHOW &
DOROTHY A. MALCHOW
VENDORS

MICHELS PIPELINE CONSTRUCTION, INC.
A WISCONSIN CORPORATION

TY R. STEWARD &
CARLA M. STEWARD

DENNIS D. HEIMER
KAREN J. HEIMER

MARLENE A. ZIESEMER
A/K/A/ MARLENE ZIESEMER

DONALD D. DETRA
ARDYSS I. DETRA

KATHLEEN M. BARKER

NEENAH, WISCONSIN, CONGREGATION
OF JEHOVAH'S WITNESSES, INC.

WILLIAM E. DE MEUSE

HAROLD J. KEMP
LOIS J. KEMP

GERALD E. ORY
SARA J. ORY

BRET D. NOFFKE

MEMORIAL PARK ESTATES CONDOMINIUM

DAVID N. MILLER
RITA MILLER

RODNEY C. FISCHER
BONNIE M. FISCHER

O, M, J, F & H LLC

DOUGLAS K. PAHLOW
CATHY L. PAHLOW

PEGASUS
ENTERPRISES INC.

JAMES R. MITCHELL
ELIZABETH M. MITCHELL

JEFFREY B. LITTLE
JENNIFER L. LITTLE

MARK R. JENSEN
SUSAN M. JENSEN

HENRY MALCHOW
DOROTHY MALCHOW

THOMAS L. SWERTZ
JENIFER S. SWERTZ
LAND CONTRACT
HENRY MALCHOW
DOROTHY MALCHOW VENDORS

REVISION DATE 04/12/02 - ADDED PARCEL 10	DATE	1" = 200'	HWY: CTH "JJ"	CONSTRUCTION PROJECT NUMBER	PS&E SHEET NO: A. 21
			COUNTY: WINNEBAGO CTY	STATE R/W PROJECT NUMBER	PLAT SHEET NO: 4. 2 E

FILE NAME : F:\Transportation\E1510A00\SHEETS\PLAT\1o01.dgn PLOT DATE: 04/15/2002 08:19:07 AM ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 70

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

N

T 20 N
30 29
R 17 E
WINNEBAGO COUNTY MONUMENT FOUND

BEGIN RELOCATION ORDER
STATION 21+14.30
310.03' NORTH OF AND 108.34' EAST OF THE SOUTHWEST CORNER OF SECTION 29, T20N, R17E

PENDLETON ROAD (CTH "CB")
2639.71'

P120+21.33
Δ = 18°30'37"
D = 6°25'00"
T = 149.38'
L = 295.35'
R = 916.73'
LCB = N60°12'56.5"E
LC = 294.09'

LOT 2
CSM 3082

BRIAN FALCK &
PATTY FALCK LAND CONTRACT
HENRY MALCHOW &
DOROTHY A. MALCHOW
VENDORS

P/L

6' - 8' - 12' WIDE UTILITY EASEMENTS
WESTWIND VILLAGE II

(50) AMERITECH F/K/A/ WISCONSIN TELEPHONE COMPANY
(51) TIME WARNER CABLE
(52) WISCONSIN ELECTRIC/GAS OPERATIONS

TOWN OF NEENAH
SECTION 29
SW - SW

AWARD OF DAMAGES FOR DRAINAGE
DOCUMENT NO 628905

HOLDING TANK AGREEMENT
DOCUMENT NO 754660

(50) AMERITECH F/K/A/WISCONSIN TELEPHONE COMPANY EASEMENT
VOLUME 382, PAGE 251
VOLUME 405, PAGE 53

PLE FOR DRAINAGE
R/W PROJECT NO 4619-02-21

(4) MICHELS PIPELINE CONSTRUCTION, INC.
A WISCONSIN CORPORATION

WINNECONNE AVE.

26+19.44
40.00' R/W

40' R/W

N86°18'05"W
17.06'

N20°31'45"E
33.00'

N69°28'15"E

SLOPE INTERCEPT

1873.29'

2494.70'

2467.57'

33+70

25+00 466.89'

S69°28'15"W

30+00

33.00'

R/L

1857.73'

CTH

STA 19+92.37

P120+21.33
L = 175.74' R = 916.73'
LCB N63°58'44.5"E
LC = 175.47'

C-1
L = 121.52' R = 916.73'
LCB N62°11'50.5"E
LC = 121.83'

PT 21+68.8

S23°53'33"E
50.00'

60.00'

R/W WIDTH VARIES

24+00
52.82' R/W

CTH-JJ

25+87.95
50.00' R/W

10' X 10'
PERMANENT LIMITED EASEMENT
FOR DRAINAGE

N37°19'06"E
9.39'

25+00
54.03' R/W

N10°09'58"E
80.01'

N45°46'22"E
27.30'

25+80
55.00' TI
60.00' TI

N69°28'15"E
50.00'

27+55
50.00 TI, PLE
60.00 TI, PLE

28+05
50.00' TI, PLE
60.00' TI, PLE

8' WIDE UTILITY EASEMENT
WESTWIND VILLAGE II

12' WIDE UTILITY EASEMENT
WESTWIND VILLAGE II

SLOPE INTERCEPT
33+35
50.00 TI, PLE
60.00 TI, PLE

10' X 10'
PERMANENT LIMITED EASEMENT
FOR DRAINAGE

33+45
50.00 TI, PLE
60.00 TI, PLE

6' WIDE UTILITY EASEMENT
WESTWIND VILLAGE II

MATCH LINE

MEM

MEMORI
ESTATES I

21+14.30
50.00' TI

21+35.55
62.00' TI

12' WIDE
TEMPORARY INTEREST FOR
DRIVEWAY CONSTRUCTION
AND SLOPING

S84°32'38"E
27.82'

24+25
65.00' R/W TI

24+25
65.00' R/W

30' WIDE
TEMPORARY INTEREST FOR
DRIVEWAY CONSTRUCTION
AND SLOPING

DRIVEWAY EASEMENT
AGREEMENT
DOCUMENT NO. 1115172

HENRY MALCHOW
DOROTHY MALCHOW

(1) THOMAS L. SWIERTZ
JENIFER S. SWIERTZ
LAND CONTRACT
HENRY MALCHOW
DOROTHY MALCHOW VENDORS

(2) MARK R. JENSEN
SUSAN M. JENSEN

(3) RODNEY C. FISCHER
BONNIE M. FISCHER

(10) O, M, J, F & H LLC

(5) PEGASUS ENTERPRISES INC.
LOT 78

(6) DOUGLAS K. PAHLOW
CATHY L. PAHLOW
LOT 77

(7) JEFFREY B. LITTLE
JENNIFER L. LITTLE
LOT 76

(8) JAMES R. MITCHELL
ELIZABETH M. MITCHELL
LOT 75

(9) DAVID N. MILLER
RITA MILLER
LOT 74

(11)

WESTWIND VILLAGE II

WELL EASEMENT
AGREEMENT
DOCUMENT NO. 1115971

LOT 1
CSM 4668

LOT 2
CSM 4668

CURVE DATA
C-1 (R/U) L = 53.82' R = 916.73'
LCB = N67°47'22"E LC = 53.82'
C-2 (R/U) L = 50.00' R = 866.73'
LCB = N67°47'22"E LC = 50.01'

SW - SW
SECTION 29
TOWN OF NEENAH

STUART COURT

SW - SW
SECTION 29
CITY OF NEENAH

N00°06'21"E
2633.39'
P/L
SEC LINE
GEORGE R. REDLIN

SEC LINE

T 20 N
30 29
31 32
R 17 E
WINNEBAGO COUNTY MONUMENT FOUND

REVISION DATE 04/12/02 - ADDED PARCEL 10	DATE	0 25 50 100	HWY: CTH "JJ"	CONSTRUCTION PROJECT NUMBER	PS&E SHEET NO: 4.22
			COUNTY: WINNEBAGO	STATE R/W PROJECT NUMBER	PLAT SHEET NO: 4. 3 E

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.

FILE NAME : F:\Transportation\E1510A00\SHEETS\PLAT\rp01.dgn PLOT DATE: 04/15/2002 08:22:51 AM ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE : WISDOT/CADDS SHEET 70

N

TOWN OF NEENAH

SECTION 29

SE - SW

NE - SW

END RELOCATION ORDER
STATION 46+62.81
1195.09' NORTH OF AND 1314.44' WEST OF THE SOUTH QUARTER CORNER OF SECTION 29, T20N, R17E

T 20 N
29
R 17 E
WINNEBAGO COUNTY MONUMENT FOUND

12 KATHLEEN M. BARKER

13 DONALD D. DETRA
ARDYSS I. DETRA

14 MARLENE A. ZIESEMER
A/K/A/ MARLENE ZIESEMER

16 TY R. STEWARD
CARLA M. STEWARD

17 DENNIS D. HEIMER
KAREN J. HEIMER

18 NEENAH, WISCONSIN, CONGREGATION OF JEHOVAH'S WITNESSES, INC.

15' WIDE TEMPORARY INTEREST FOR DRIVEWAY CONSTRUCTION AND SLOPING

50 AMERITECH F/K/A/ WISCONSIN TELEPHONE COMPANY EASEMENT VOLUME 382, PAGE 255

22 WILLIAM E. DE MEUSE

TULLAR ROAD

33+70 MATCH LINE

WINNECONNE AVE CTH

BABCOCK STREET

11 MEMORIAL PARK ESTATES CONDOMINIUM

LOT 134 MEMORIAL PARK ESTATES

LOT 135 MEMORIAL PARK ESTATES

CITY OF NEENAH

SLOPE INTERCEPT

10' WIDE TEMPORARY INTEREST FOR DRIVEWAY CONSTRUCTION AND SLOPING

10' X 10' PERMANENT LIMITED EASEMENT FOR DRAINAGE

19 HAROLD J. KEMP
LOIS J. KEMP

21 GERALD E. ORY
SARA J. ORY

23 BRET D. NOFFKE

VARIED WIDTH AMERITECH F/K/A/WISCONSIN BELL EASEMENT DOCUMENT NO. 661284

T 20 N
29
32
R 17 E
WINNEBAGO COUNTY MONUMENT FOUND

6' - 8' - 12' WIDE UTILITY EASEMENTS
WESTWIND VILLAGE II

50 AMERITECH F/K/A/ WISCONSIN TELEPHONE COMPANY
51 TIME WARNER CABLE
52 WISCONSIN ELECTRIC/GAS OPERATIONS

REVISION DATE 04/12/02 NC	DATE	0 25 50 100	HWY: CTH "JJ"	CONSTRUCTION PROJECT NUMBER	PS&E SHEET NO: 23
			COUNTY: WINNEBAGO	STATE R/W PROJECT NUMBER	PLAT SHEET NO: 4. 4 E

FILE NAME : $FILE$ PLOT DATE: $DATE$ $TIME$ ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 70

LEVELS ON : 1, 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.

PENDLETON RD

(CONC)

(ASPH)

BRIAN FALCK & PATTY FALCK LAND CONTRACT
HENRY MALCHOW & DOROTHY A. MALCHOW
VENDORS

REMOVE EXISTING ENDWALLS, EXTEND PIPES AND CONSTRUCT NEW CONCRETE MASONRY ENDWALLS

MICHELS PIPELINE CONSTRUCTION, INC.
A WISCONSIN CORPORATION

EXIST R/W

SLOPE INTERCEPT

+50 WB

ASPHALT

CTH JJ

SAWCUT AND MATCH EXIST

PT 21'WB'+86.02

PI 20'WB'+29.05

CTH JJ WB R/L

N70°35'04"E

PI 20'EB'+04.40

PT 21'EB'+32.37

N67°13'36"E

CTH JJ EB R/L

PI 23'EB'+80.00

REMOVE CULVERT

18" CMP

ADJUST MH

+14.5 EB

MATCH EXIST

BEGIN PROJECT
STA 22'EB'+60.00

SAWCUT AND MATCH EXIST

SAWCUT AND MATCH EXIST

TI FOR SLOPING

EXIST R/W

BM 1

CHAIN LINK FENCE

SLOPE INTERCEPT

TI FOR SLOPING

CAUTION

MATCH LINE

HENRY MALCHOW
DOROTHY A. MALCHOW
A/K/A DOROTHY MALCHOW

SAWCUT FULL DEPTH AND MATCH EXISTING

MARK R. JENSEN
SUSAN M. JENSEN

RODNEY C. FISCHER
BONNIE M. FISCHER

SCALES:
1" = 20' HOR
1" = 2' VER

LEGEND
- FILTER BAGS
- DRAINAGE FLOW ARROW
- EROSION MAT, CLASS 1, TYPE A
- SILT FENCE
- EROSION BALES
- MEDIUM RANDOM RIPRAP

	PI STA = 20'WB'+29.05	PI STA = 20'EB'+04.40
I	19°13'27"	16°15'58"
D	6°11'21"	6°18'43"
T	160.10'	129.72'
R	925.73'	907.73'
L	317.07'	257.70'

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
BM 1	24'EB'+36.31'RT	CHISELED "X" ON TOP OF NORTHWEST WINGWALL FOR QUADRUPLE CONCRETE CULVERT PIPES, SOUTHSIDE OF CTH JJ	769.13

EXISTING CTH JJ PROFILE
PROPOSED CTH JJ EB PROFILE
PROPOSED CTH JJ WB PROFILE

VPI STA = 22'EB'+60.00
VPI EL = 771.73

-0.34% EB

VPI STA = 25'WB'+50.00
VPI EL = 771.33

-0.37% WB

VPI STA = 23'WB'+60.00
VPI EL = 771.22

VPI STA = 23'EB'+80.00
VPI EL = 771.32

0.40% EB

-0.34% WB

VPC STA = 25'WB'+30.00
VPC EL = 770.72
VPC STA = 25'EB'+30.00
VPC EL = 770.72

VPI STA = 25'EB'+50.00
VPI EB & WB EL = 770.64

VPT STA = 25'EB'+70.00
VPT EB & WB EL = 770.72

0.40% EB & WB

EXISTING 29" x 45"

67.7' @ 0.12% 18" ST

50' @ 0.12% 18" ST

250' @ 0.20% 15" ST

MH 10.2
12" N INV EL 767.89
29" x 45" SE INV EL 766.76

EL 766.76
DISCHARGE
EL 766.70

DISCHARGE
EL 766.70

DISCHARGE
EL 766.70

EL 766.78

EL 766.85

MH 12.2
18" S INV EL 766.78
12" N INV EL 767.17
18" E INV EL 766.79

MH 13.3
12" N INV EL 767.10
15" E INV EL 767.10
12" S INV EL 767.10
18" W INV EL 766.85

772.1 | 771.9 | 771.9 | 771.8 | 771.6 (771.59 EB) | 771.4 (771.42 EB, 771.33 WB) | 771.3 (771.24 EB, 771.15 WB) | 771.2 (771.04 EB, 770.98 WB) | 771.1 (770.84 EB, 770.81 WB) | 771.4 (770.68 EB, 770.68 WB) | 771.5 (770.84 EB, 770.84 WB)

776 774 772 770 768 766 764 762

20+00 21+00 22+00 23+00 24+00 25+00 26+00

STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	PLAN AND PROFILE	SHEET NO: 24.	E

FILE NAME : TRANSPORTATION/ / / / .DGN PLOT DATE: / /2000 ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 40

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, 58,59,60,61,62,

LEGEND
FILTER BAGS

MICHELS PIPELINE CONSTRUCTION, INC.
A WISCONSIN CORPORATION

SLOPE INTERCEPT

26'EB'+00

32'EB'+00

R/W

EXIST R/W

(GRAV)

18"CMP

REMOVE CULVERT

CTH JJ WB R/L

PI 26'WB'+40

N70°35'04"E

N69°28'15"E

CTH JJ

CTH JJ EB & WB R/L

CTH JJ EB R/L

REMOVE CULVERT

REMOVE FENCE

REMOVE FENCE

MATCH LINE

MATCH LINE

CRUSHED AGGREGATE BASE COURSE

TI FOR SLOPING

TI FOR SLOPING

PLE FOR DRAINAGE

6" MINI STORM SEWER

SLOPE INTERCEPT

CAUTION

BM 2

CONC SLAB

IDEA SHOPPE FASHIONS

O, M, J, F, & H LLC

PEGASUS ENTRERPRISES INC.

DOUGLAS K. PAHLOW
CATHY L. PAHLOW

JEFFREY B. LITTLE
JENNIFER L. LITTLE

JAMES R. MITCHELL
ELIBABETH M. MITCHELL

SCALES:
1" = 20' HOR
1" = 2' VER

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
BM 2	27'EB'+39, 90' RT	NORTHEAST CORNER OF CONCRETE ENTRANCE SLAB OF IDEA SHOPPE FASHIONS	773.78

PROPOSED CTH JJ EB & WB PROFILE

EXISTING CTH JJ PROFILE

0.40%

0.40%

250' - 15" SI @ 0.20%

EL 767.60

MH 14.5
12" N INV EL 767.70
12" S INV EL 767.70
15" W INV EL 767.60

VPC STA = 29+50.00
VPC EL = 772.24

VPT STA = 30+00.00
VPT EL = 772.44

VC = 100'

VPT STA = 30+50.00
VPT EL = 772.24

776 774 772 770 768 766 764 762

26+00 27+00 28+00 29+00 30+00 31+00 32+00

771.5 770.84 EB 770.84 WB
771.5 771.04 EB 771.04 WB
771.5 771.24 EB 771.24 WB
771.5 771.44 EB 771.44 WB
771.4 771.64 EB 771.64 WB
771.4 771.84 EB 771.84 WB
771.4 772.04 EB 772.04 WB
771.4 772.24 EB 772.24 WB
771.4 772.34 EB 772.34 WB
771.3 772.24 EB 772.24 WB
771.3 772.04 EB 772.04 WE
771.4 771.84 EB 771.84 WB
771.5 771.64 EB 771.64 WB

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, 58,59,60,61,62,

STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	PLAN AND PROFILE	SHEET NO: 25.	E

FILE NAME : TRANSPORTATION/ / / / .DGN PLOT DATE: / /2000 ORG DATE : / /2000 PLOT SCALE : ORGINATOR : OMNNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 40

MICHELS PIPELINE CONSTRUCTION, INC.
A WISCONSIN CORPORATION

KATHLEEN M. BARKER

DONALD D. DETRA &
ARDYSS I. DETRA

DAVID N. MILLER
RITA MILLER

MEMORIAL PARK
ESTATES CONDOMINIUM

MEMORIAL PARK
ESTATES CONDOMINIUM

CTH JJ

BABCOCK ST

32+00

38+00

MATCH LINE

MATCH LINE

SCALES:
1" = 20' HOR
1" = 2' VER

LEGEND
FILTER BAGS

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
BM 3	35'EB'+45, 55'RT	CHISELED "X" ON NORTH FLANGE OF HYDRANT, SOUTHEAST CORNER OF BABCOCK & CTH JJ INTERSECTION	773.10
BM 6	37'EB'+15, 66'LT	SOUTHEAST CORNER, FIRST STEP OF HOUSE #1261	773.73

EXISTING CTH JJ PROFILE

PROPOSED CTH JJ EB & WB PROFILE

VPC STA = 33+20.00
VPC EL = 771.16

VC = 40'

VPI STA = 33+60.00
VPI EL = 771.16

VPI STA = 33+40.00
VPI EL = 771.08

VPI STA = 36+05.00
VPI EL = 771.82

-0.40%

0.40%

185' - 15" ST @ 0.20%

75' - 12" ST @ 0.30%

150' - 12" ST @ 0.30%

170' - 12" ST @ 0.30%

EL 767.55

EL 767.16

EL 767.68

EL 768.13

MH 15.7
12" N INV EL 767.65
15" E INV EL 767.55
12" S INV EL 767.65

MH 16.4
15" N INV EL 766.95
12" E INV EL 767.21
15" S INV EL 766.95

MH 16.2
12" N INV EL 767.29
12" E INV EL 767.46
15" S INV EL 767.16
15" W INV EL 767.18

MH 17.2
12" N INV EL 767.90
12" E INV EL 767.68
12" W INV EL 767.68

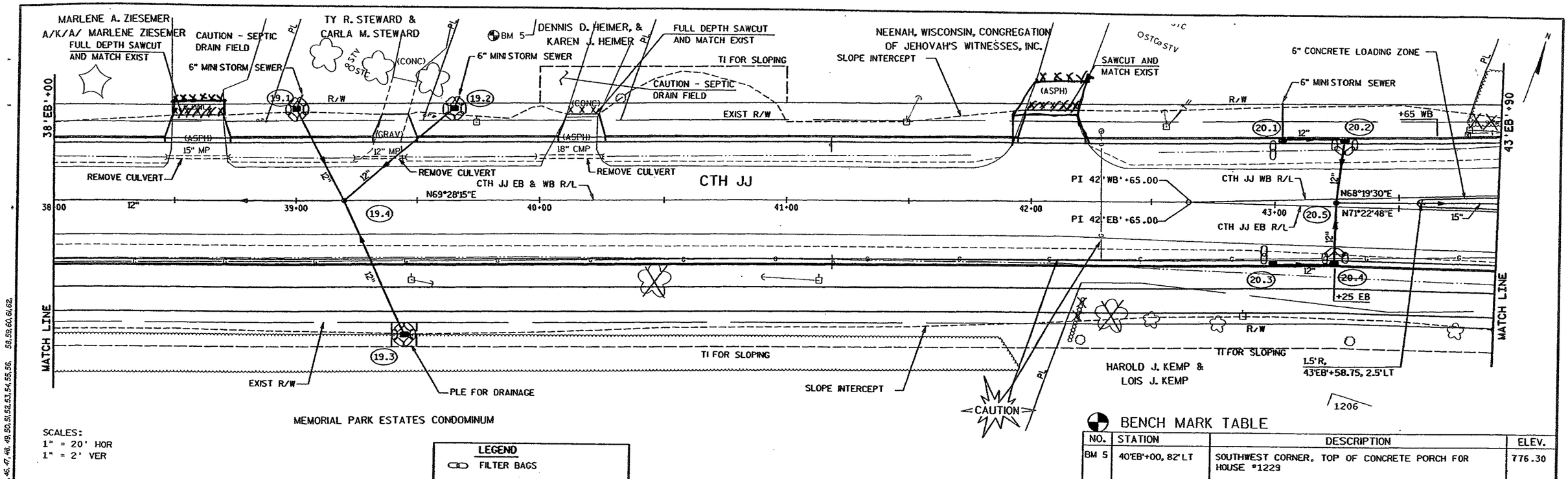
MH 18.5
12" N INV EL 768.17
12" E INV EL 768.13
12" S INV EL 768.18
12" W INV EL 768.13

STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	PLAN AND PROFILE	SHEET NO: 26.	E

FILE NAME : TRANSPORTATION/ / / / .DGN PLOT DATE: / /2000 ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 40

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, 58,59,60,61,62,

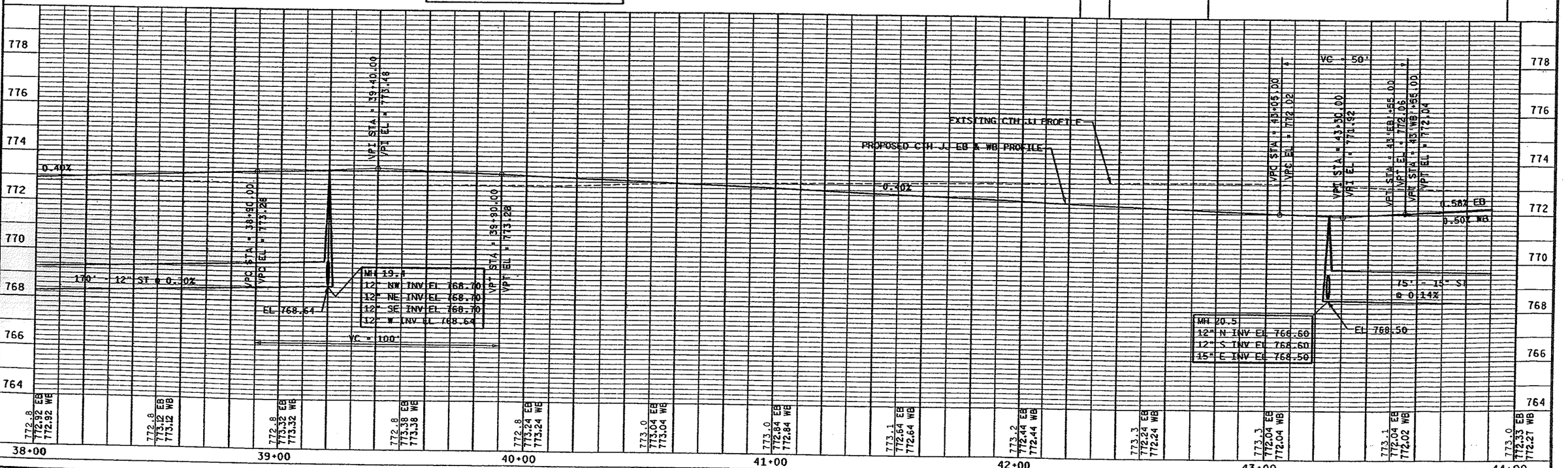


SCALES:
1" = 20' HOR
1" = 2' VER

LEGEND
FILTER BAGS

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEV.
BM 5	40'EB'+00, 82'LT	SOUTHWEST CORNER, TOP OF CONCRETE PORCH FOR HOUSE #1229	776.30

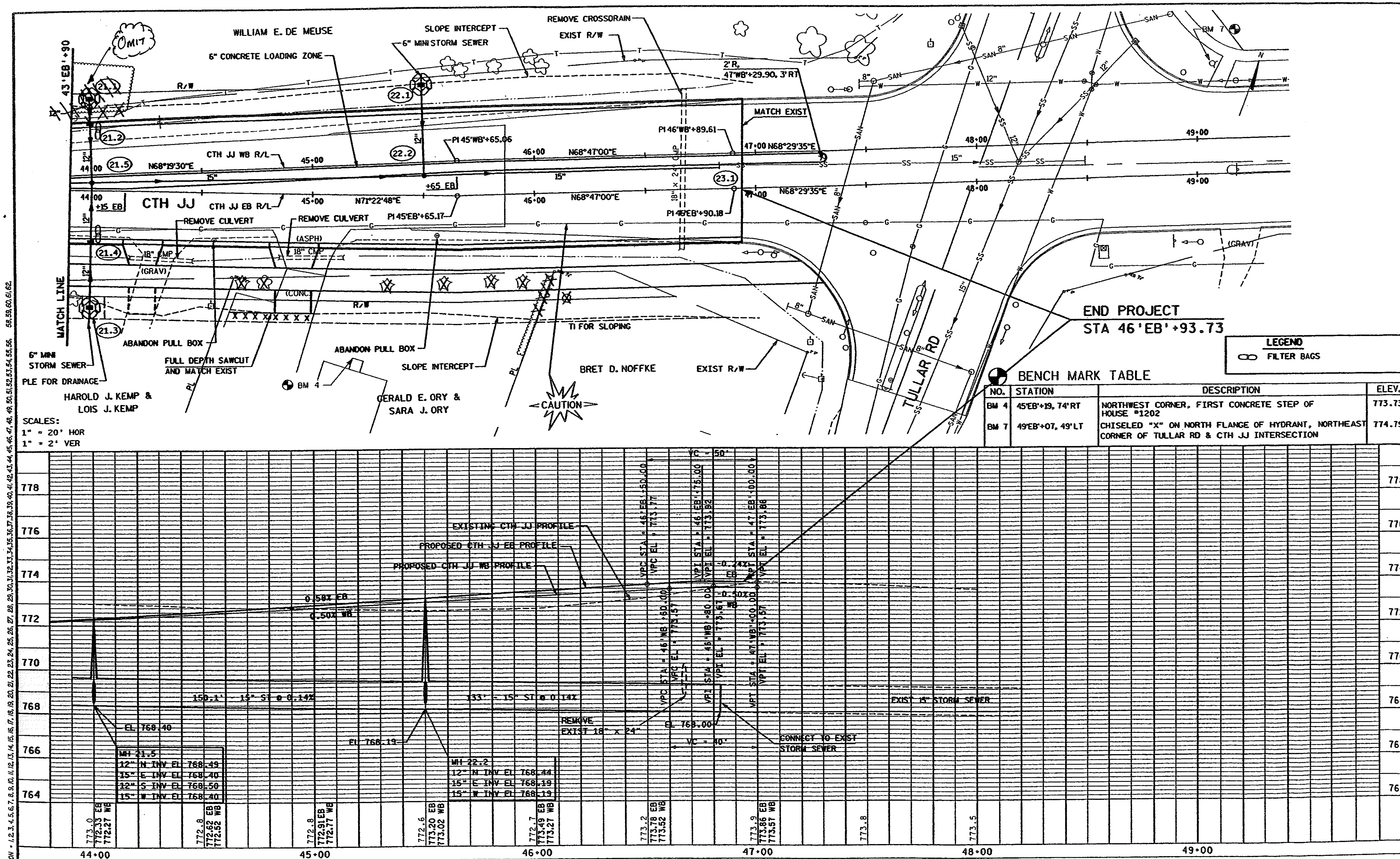


LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,58,59,60,61,62,

STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	PLAN AND PROFILE	SHEET NO: 27.	E

FILE NAME : TRANSPORTATION/ / / / .DGN PLOT DATE: / /2000 ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 40



SCALES:
1" = 20' HOR
1" = 2' VER

LEGEND

FILTER BAGS

BENCH MARK TABLE

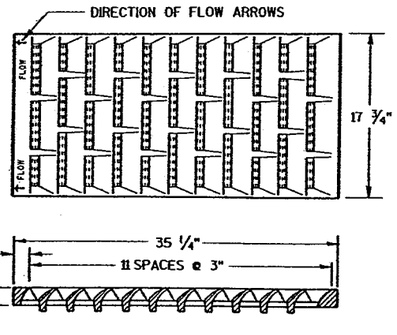
NO.	STATION	DESCRIPTION	ELEV.
BM 4	45'EB'+19, 74' RT	NORTHWEST CORNER, FIRST CONCRETE STEP OF HOUSE #1202	773.73
BM 7	49'EB'+07, 49' LT	CHISELED "X" ON NORTH FLANGE OF HYDRANT, NORTHEAST CORNER OF TULLAR RD & CTH JJ INTERSECTION	774.79

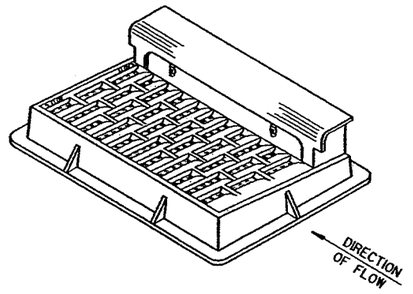
STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	PLAN AND PROFILE	SHEET NO: 28.	E

FILE NAME : TRANSPORTATION/ / / / .DGN PLOT DATE: / /2000 ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE : WISDOT/CADDS SHEET 40

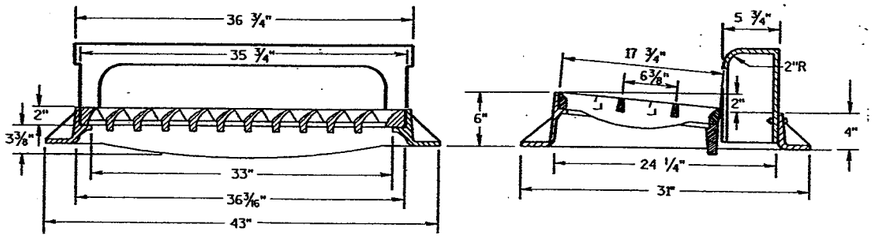
LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56, 58,59,60,61,62

NOTE:
GRATE IS REVERSIBLE.





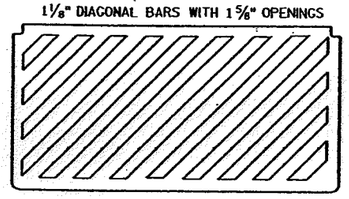
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"



TYPE "H"

(APPROXIMATE WEIGHT 422 LBS.)
FRAME..... 175 LBS.
GRATE..... 138 LBS.
CURB BOX..... 109 LBS.

1 1/8" DIAGONAL BARS WITH 1 5/8" OPENINGS



SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")
(APPROXIMATE WEIGHT 172 LBS.)
GRATE..... 172 LBS.

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

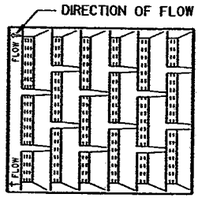
GENERAL NOTES

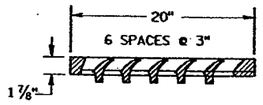
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

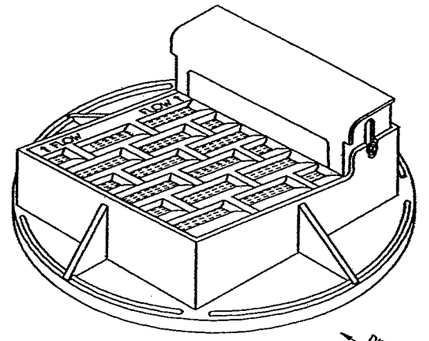
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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.

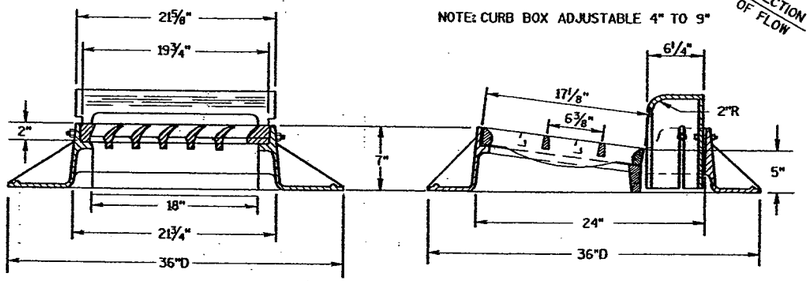






NOTE: CURB BOX ADJUSTABLE 4" TO 9"

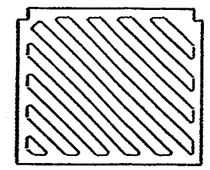
NOTE:
GRATE IS REVERSIBLE.



TYPE "A"

(APPROXIMATE WEIGHT 325 LBS.)
FRAME..... 157 LBS.
GRATE..... 84 LBS.
CURB BOX..... 84 LBS.

1" DIAGONAL BARS WITH 1 1/2" OPENINGS



SPECIAL GRATE FOR TYPE "A" COVER

(MEASURES 19 3/4" X 17" X 1 7/8"
GRATE..... 84 LBS.

(NOTED AS TYPE A-S ON DRAINAGE TABLE)

INLET COVERS
TYPE A, H, A-S, & H-S

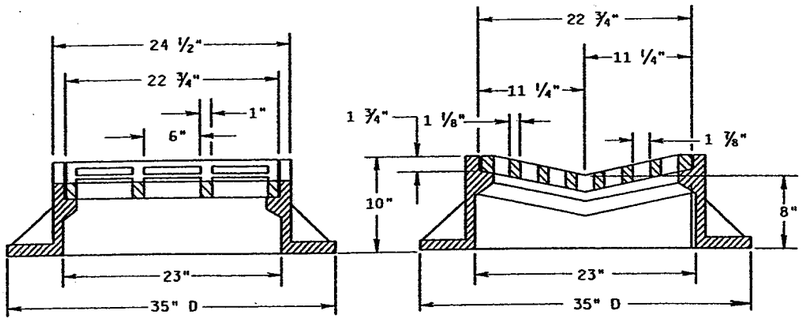
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

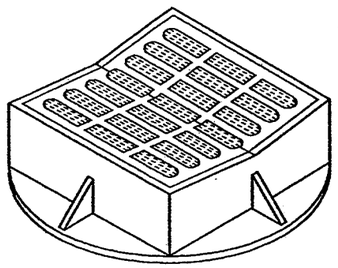
APPROVED

DATE

CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

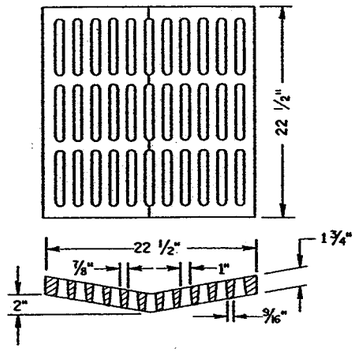




TYPE "B"

(APPROXIMATE WEIGHT 395 LBS.)

FRAME..... 285 LBS.
GRATE..... 110 LBS.

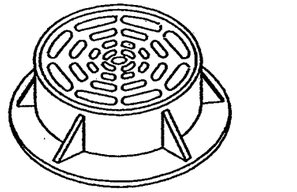


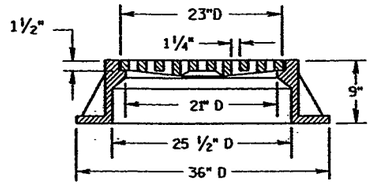
ALTERNATIVE GRATE FOR TYPE "B" COVER

(APPROXIMATE GRATE WEIGHT 125 LBS.)
GRATE.....125 LBS.

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.

NOTED AS TYPE B-A ON THE DRAINAGE TABLE





TYPE "C"

(APPROXIMATE WEIGHT 340 LBS.)

FRAME..... 235 LBS.
GRATE..... 105 LBS.

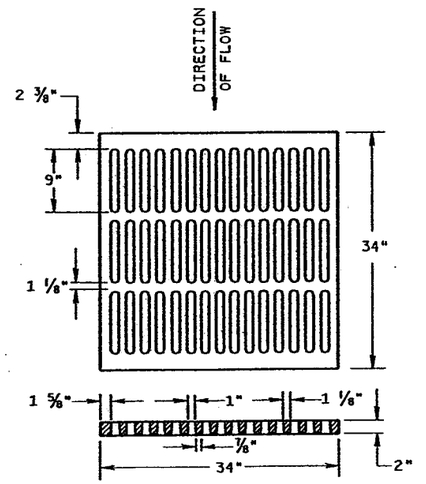
GENERAL NOTES

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.

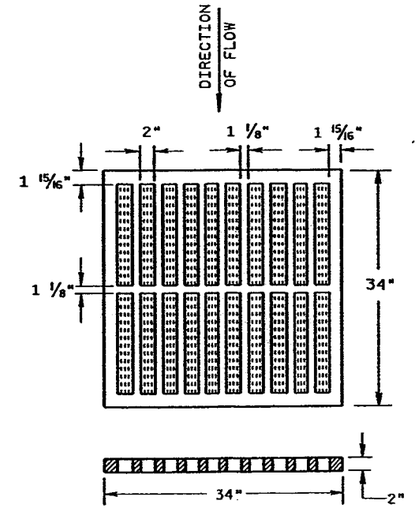


ALTERNATIVE TYPE "MS"

(APPROXIMATE GRATE WEIGHT 365 LBS.)
GRATE.....365 LBS.

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED

NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

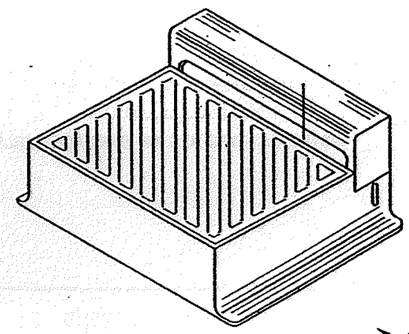


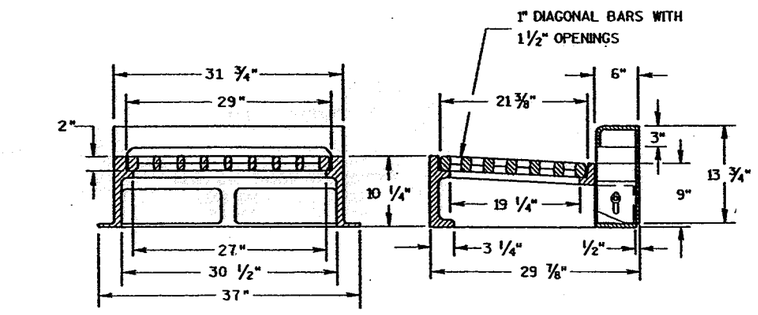
TYPE "MS"

(APPROXIMATE GRATE WEIGHT 270 LBS.)
GRATE.....270 LBS.

USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON DRAINAGE TABLE





NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

DIRECTION OF FLOW

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

TYPE "WM"

(APPROXIMATE WEIGHT 670 LBS.)

FRAME..... 360 LBS.
GRATE..... 160 LBS.
CURB BOX..... 150 LBS.

INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

STATE OF WISCONSIN
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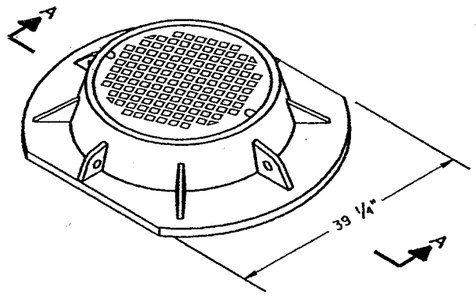
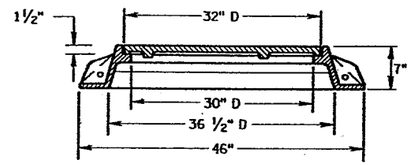
DATE — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

S.D.D. 8 A 5-16b



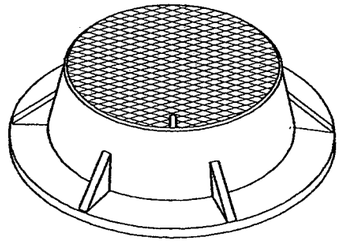


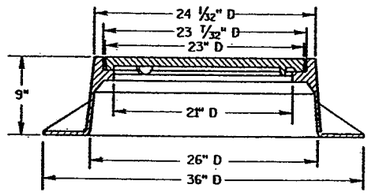
SECTION A-A

TYPE "K"

(APPROXIMATE WEIGHT 415 LBS.)

FRAME.....210 LBS.
LID.....205 LBS.

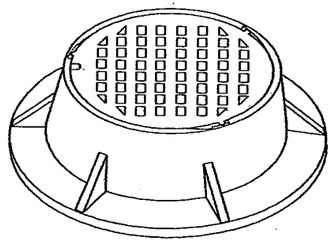


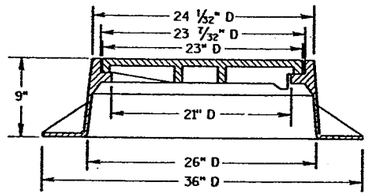


TYPE "J"

(APPROXIMATE WEIGHT 250 LBS.)

FRAME.....135 LBS.
LID.....115 LBS.





TYPE "J" SPECIAL

TYPE "B" NON-ROCKING SELF-SEAL LID

(APPROXIMATE WEIGHT 245 LBS.)

FRAME.....145 LBS.
LID.....100 LBS.

(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

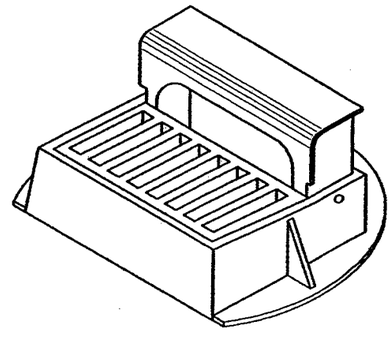
GENERAL NOTES

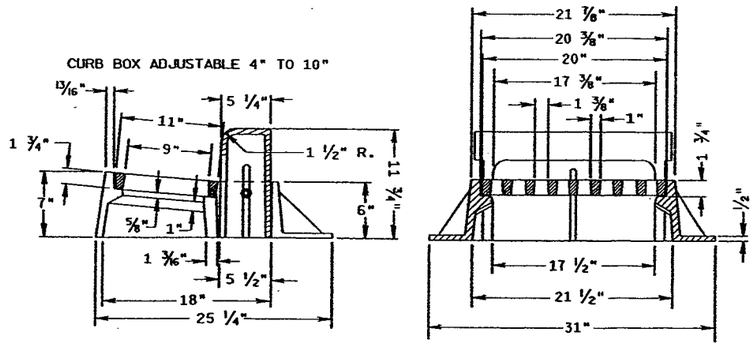
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE 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.

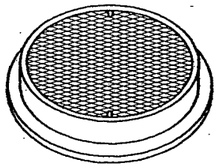


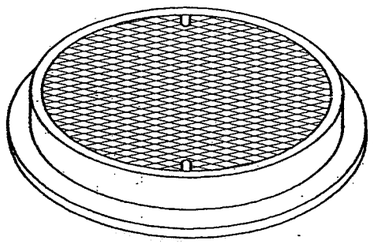


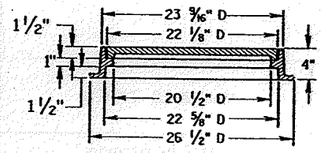
INLET COVER TYPE "Z"

(APPROXIMATE WEIGHT 340 LBS.)

FRAME.....198 LBS.
GRATE.....50 LBS.
CURB BOX.....92 LBS.



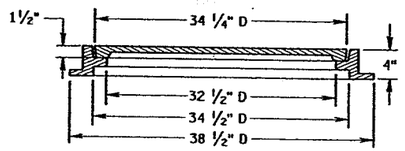




TYPE "L"

(APPROXIMATE WEIGHT 145 LBS.)

FRAME.....75*
LID.....70*



TYPE "M"

(APPROXIMATE WEIGHT 385 LBS.)

FRAME..... 125*
LID..... 260*

INLET COVER, TYPE Z MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
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DATE

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FHWA

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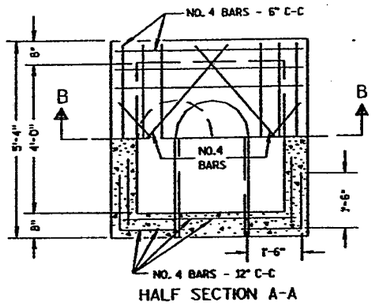
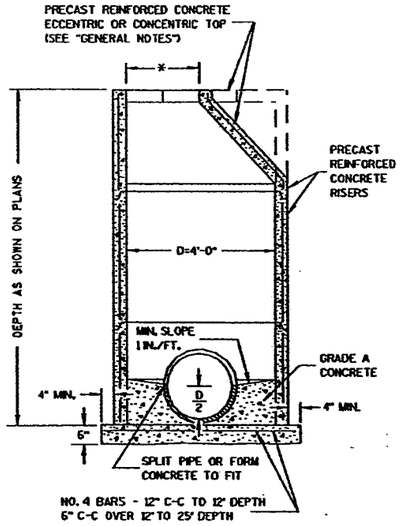


HALF SECTION A-A



PRECAST REINFORCED CONCRETE

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 I-C", "CATCH BASINS I-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 OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED 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 POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE.

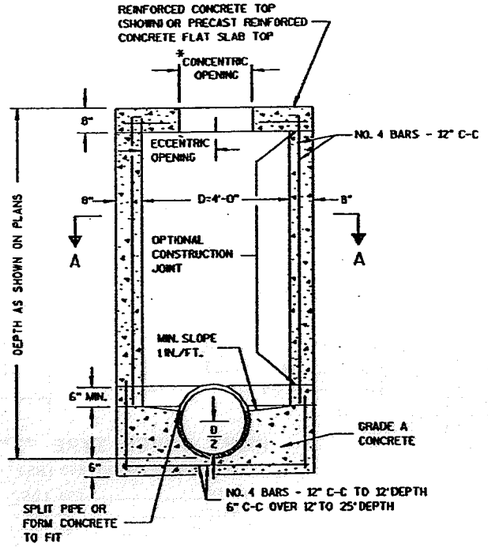
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN.

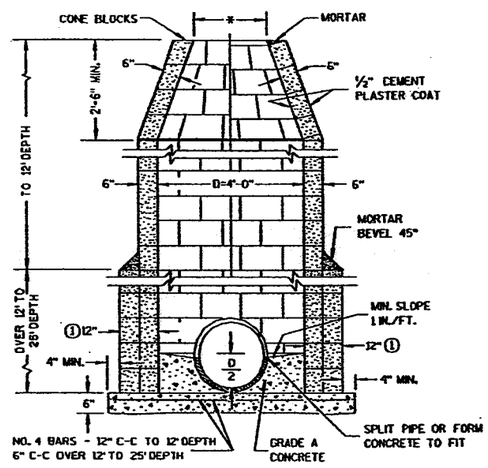
ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

* 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.



SECTION B-B
REINFORCED CONCRETE



CONCRETE BLOCK

MANHOLES TYPE 1

MANHOLES TYPE 1

STATE OF WISCONSIN
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DATE — STATE DESIGN ENGINEER FOR HWYS

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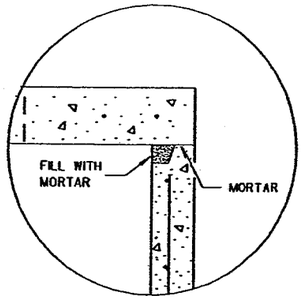
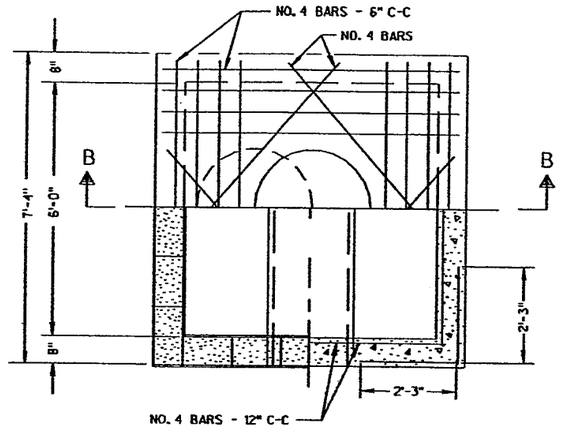
S.D.D. 8 B 6-3



DETAIL "A"



HALF 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.

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 OF 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 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 POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

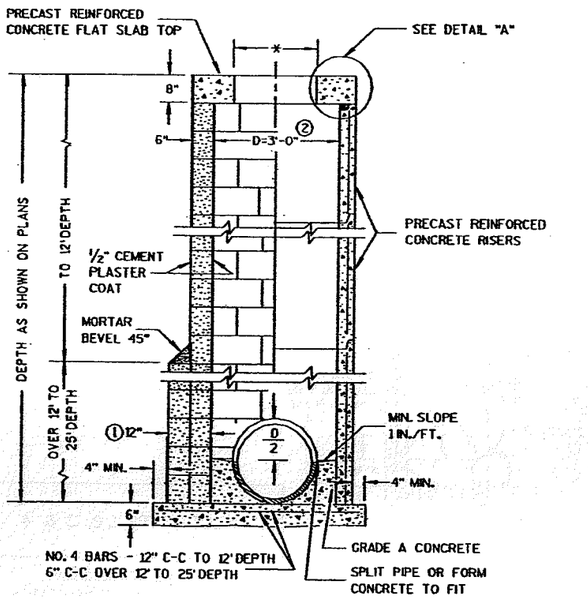
PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN.

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.

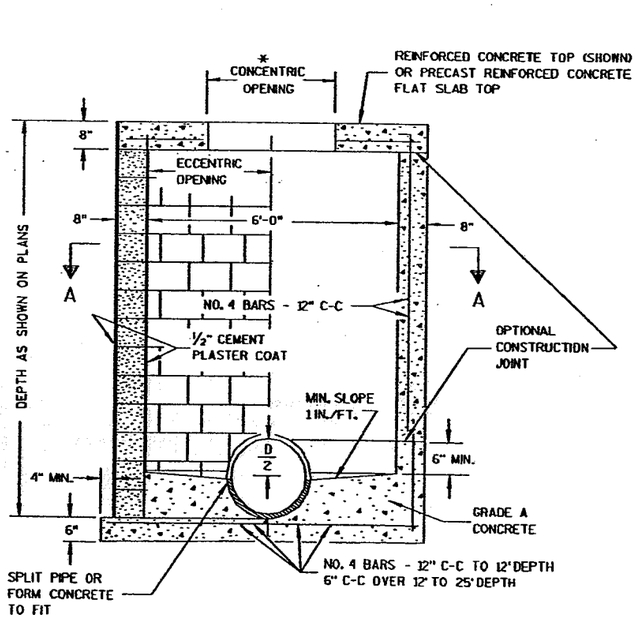
① 2 COURSES 6" BLOCK.

② WHEN CONNECTING PIPES ARE 24" OR LARGER THE PRECAST MANHOLES MAY BE INCREASED TO 42" DIAMETER.



CONCRETE BLOCK ② PRECAST REINFORCED CONCRETE

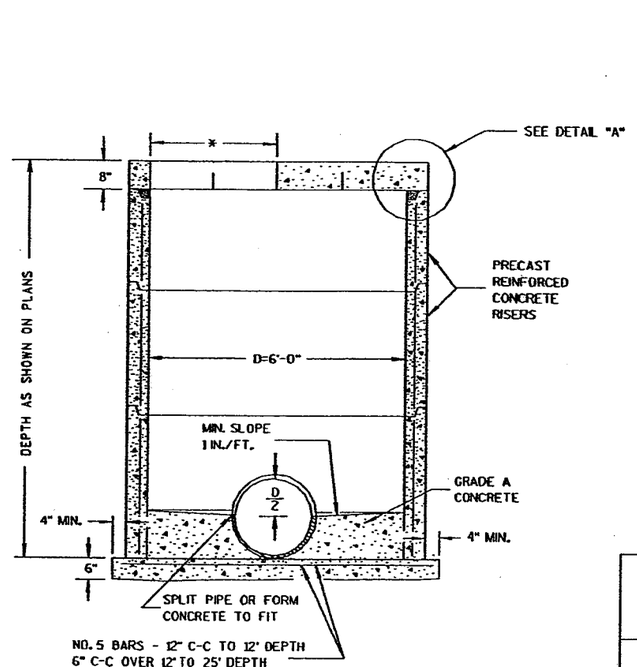
MANHOLES TYPE 2



SECTION B-B

CONCRETE BLOCK REINFORCED CONCRETE

MANHOLES TYPE 3



PRECAST REINFORCED CONCRETE

MANHOLES TYPE 2 & 3

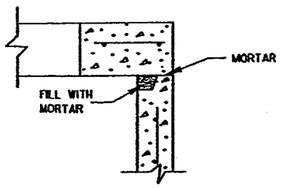
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

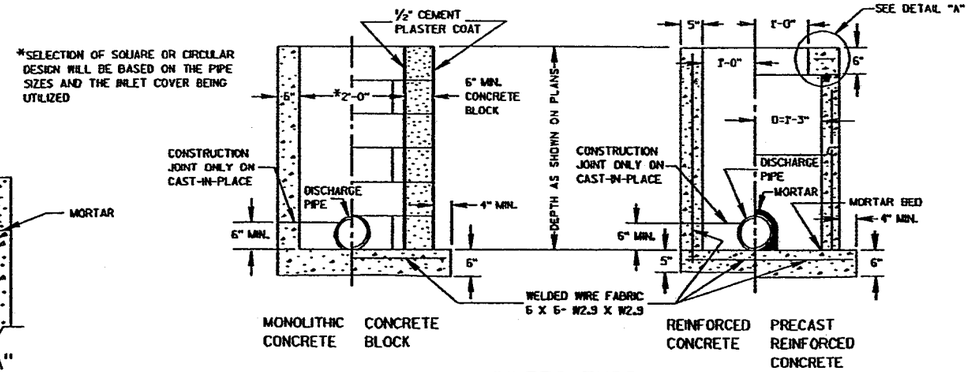
DATE STATE DESIGN ENGINEER FOR HNYS

FHWA

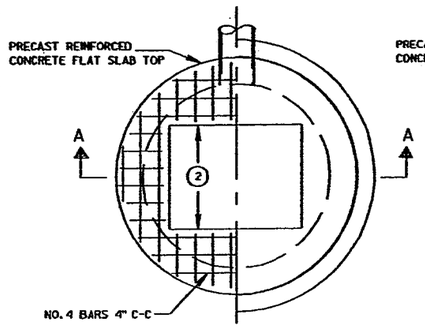
S.D.D. 8 B 7-3



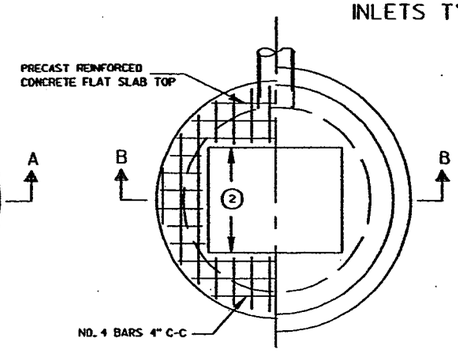
DETAIL "A"



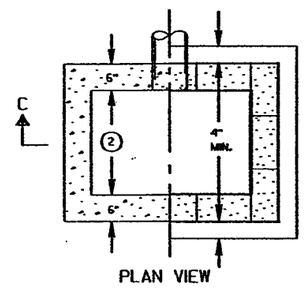
INLETS TYPE 1



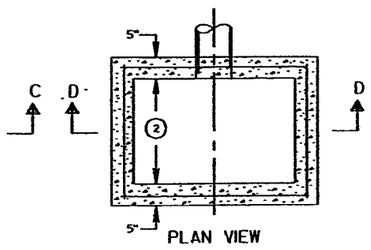
PLAN VIEW



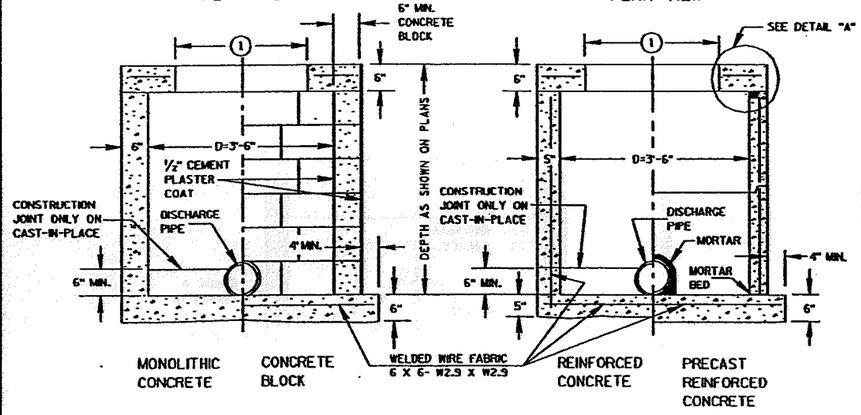
PLAN VIEW



PLAN VIEW

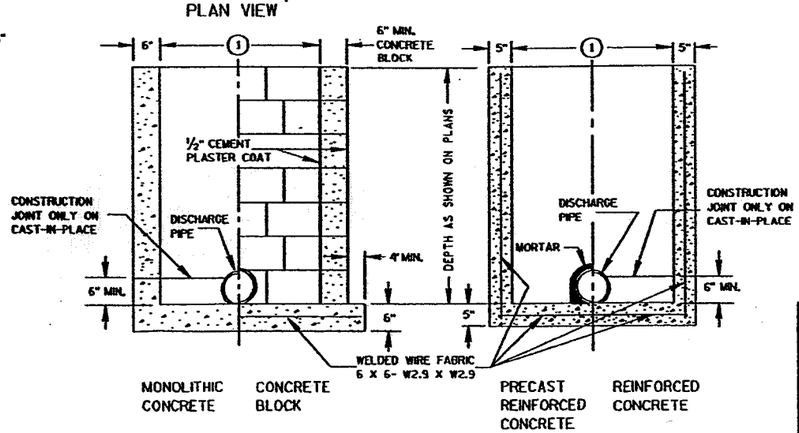


PLAN VIEW



SECTION A-A

SECTION B-B



SECTION C-C

SECTION D-D

INLETS TYPE 2, 3 & 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 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 OF 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, 3'-0" OPENING FOR TYPE 3 INLETS, AND 2'-11" FOR TYPE 4 INLETS.

(2) USE 2'-0" OPENING FOR TYPE 1, 2 & 3 INLETS, 2'-6½" OPENING FOR TYPE 4 INLETS.

INLETS TYPE 1, 2, 3 & 4

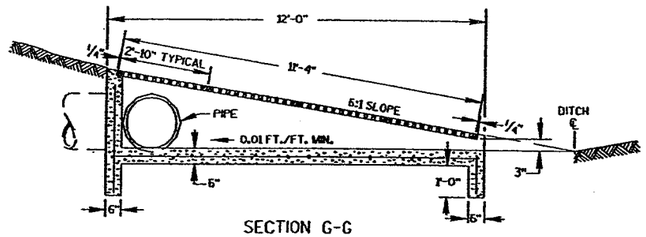
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

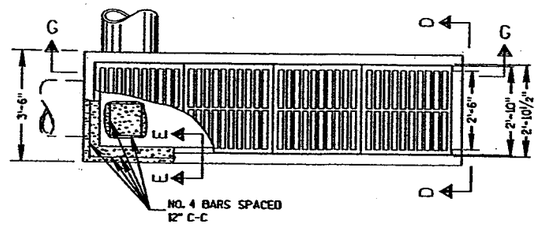
DATE — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

S.D.D. 8 C 1-S

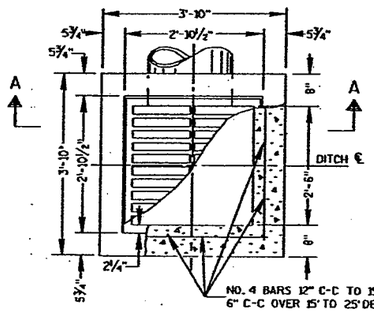


SECTION G-G

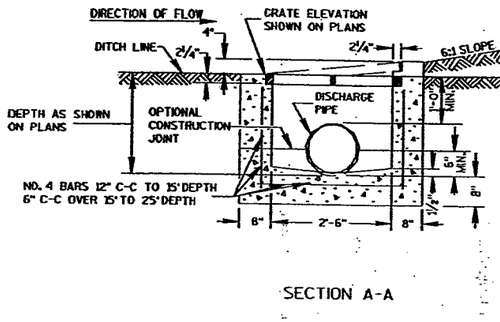


PLAN VIEW

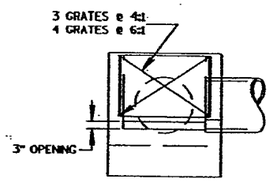
REINFORCED CONCRETE INLET TYPE 11



PLAN VIEW

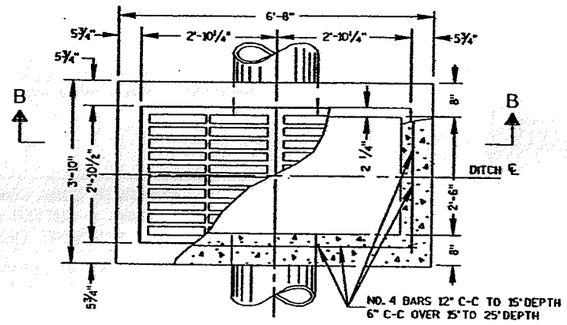


SECTION A-A

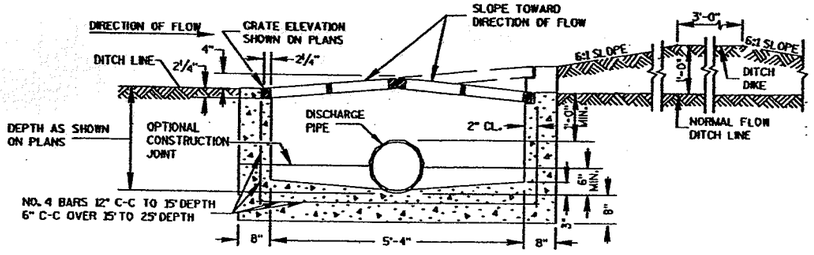


SECTION D-D

REINFORCED CONCRETE INLET TYPE 8



PLAN VIEW



SECTION B-B

REINFORCED CONCRETE INLET TYPE 9

GENERAL NOTES

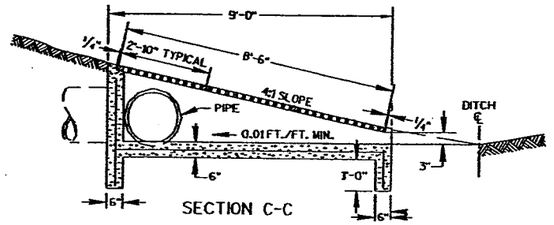
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.

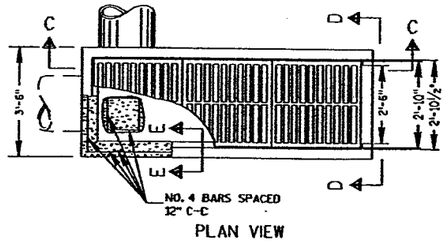
PRECAST REINFORCED CONCRETE INLET UNITS, IF USED, SHALL CONFORM TO THE REQUIREMENTS OF THE CATCH BASINS, MANHOLES AND INLETS SECTION OF THE STANDARD SPECIFICATIONS. UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A CORRECTED LIST OF SIZES IS FURNISHED BY THE ENGINEER.

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.

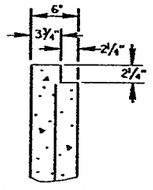


SECTION C-C



PLAN VIEW

REINFORCED CONCRETE INLET TYPE 10



SECTION E-E

INLETS TYPE 8, 9, 10 AND 11

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

APPROVED
DATE — STATE CONST. ENGINEER FOR HWYS

REVISION DATE: 4/15/91

PLOT NAME:

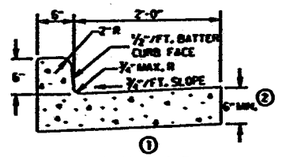
PLOT SCALE: 24

FILE NAME:

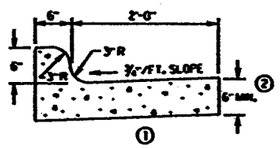
ORIGINATOR: MEL ZEMLICKA 6-2782

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

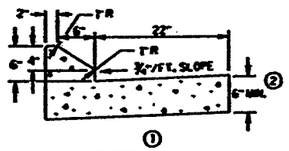
S.D.D. 8 C 5-2



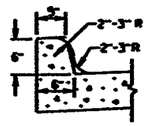
① TYPES A & D



① TYPES K & L

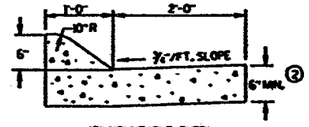


① TYPES G & J

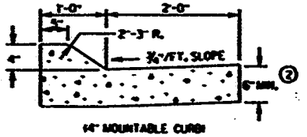


OPTIONAL CURB SHAPE ①
FOR TYPES K & L

CONCRETE CURB & GUTTER 30"



16" MOUNTABLE CURB



14" MOUNTABLE CURB

① TYPES A & D
CONCRETE CURB & GUTTER 36"

GENERAL NOTES

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

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

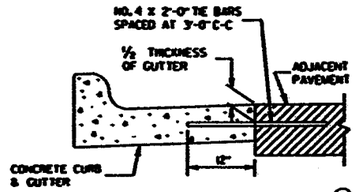
WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

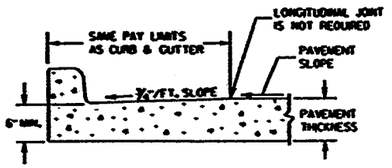
① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G AND K.

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.

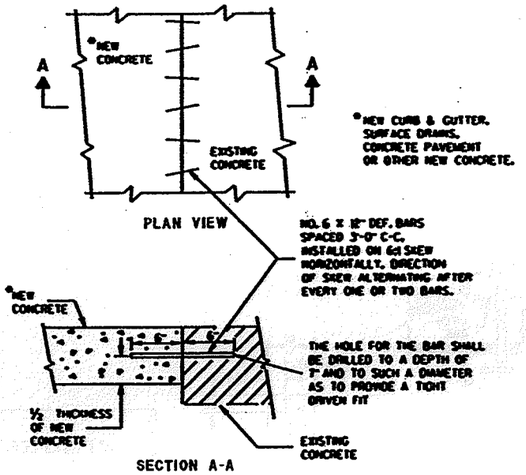
③ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATIONS SHALL BE SHOWN ELSEWHERE IN THE PLAN.



① TYPICAL TIE BAR LOCATION



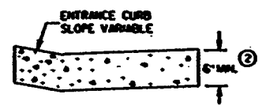
PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



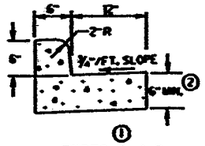
PLAN VIEW

SECTION A-A

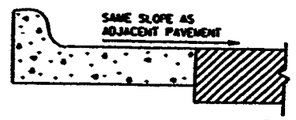
PAVEMENT TIES



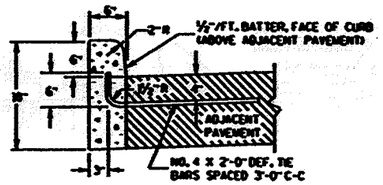
DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)



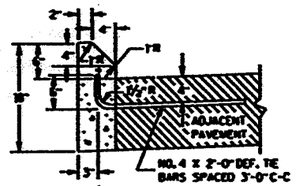
① TYPES A & D
CONCRETE CURB & GUTTER 18"



③ REVERSE SLOPE GUTTER
(TYPICAL FOR ALL CURB & GUTTER TYPES)



① TYPES A & D



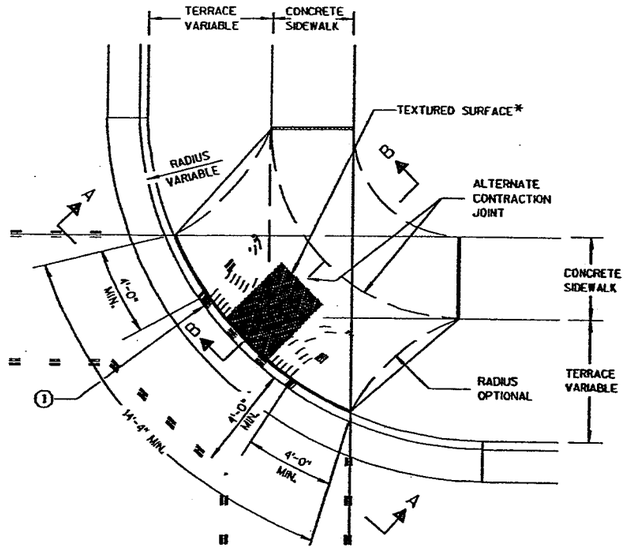
① TYPES G & J

CONCRETE CURB

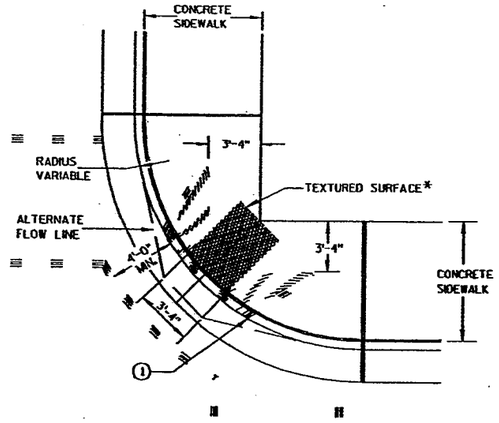
CONCRETE CURB, CONCRETE CURB & GUTTER AND PAVEMENT TIES
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED DATE — CHIEF ROADWAY DEVELOPMENT ENGINEER FHWA

S.D.D. 8 D 1-13

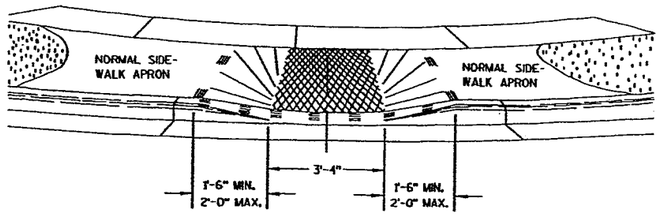
S.D.D. 8 D 1-13



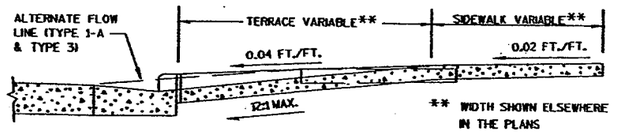
PLAN VIEW
TYPE 1 RAMP
(CENTER OF CORNER RADIUS)



PLAN VIEW
TYPE 1-A RAMP
(NO TERRACE)



VIEW A-A



SECTION B-B

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.

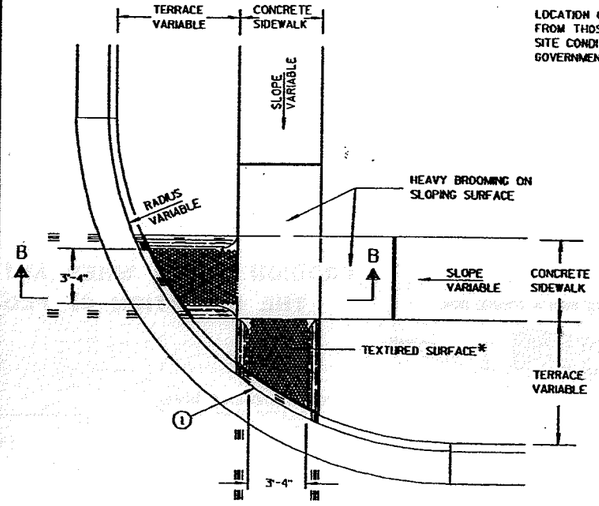
TYPE 1 OR TYPE 1-A RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

CURB RAMPS SHALL BE MEASURED AND PAID FOR AS CONCRETE SIDEWALK AND CONCRETE CURB AND GUTTER.

SURFACE TEXTURING SHALL CONSIST OF LINEAR IMPRESSIONS APPROXIMATELY ¼ INCH TO ⅜ INCH IN DEPTH AND WIDTH, ORIENTED TO PROVIDE A UNIFORM PATTERN OF DIAMOND SHAPES MEASURING APPROXIMATELY 1¼ INCHES IN WIDTH BY 2 ¼ 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 PAINT STRIPE OR WITH BRICK OF A CONTRASTING COLOR. NORMALLY THE PAINT STRIPE ALTERNATE WILL BE USED. THE MUNICAPALITY OR THE DEPARTMENT WILL APPLY THIS STRIPPING UNLESS OTHERWISE SPECIFIED IN THE CONTRACT.

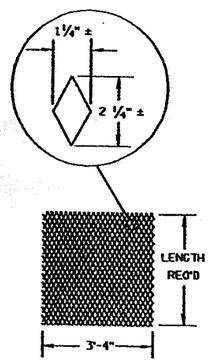
IF A MUNICAPALITY REQUIRES THE BRICK ALTERNATE, SPECIAL DETAILS AND PROVISIONS ARE SHOWN ELSEWHERE IN THE PLANS.



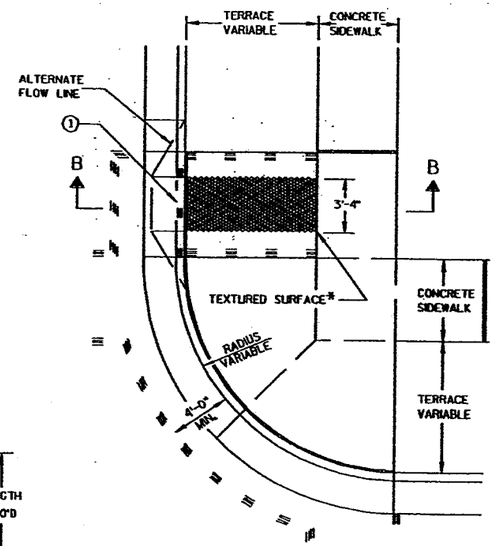
PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)

½" EXPANSION JOINT-SIDEWALK
CONTRACTION JOINT

LOCATION OF JOINTS MAY BE VARIED FROM THOSE SHOWN TO BETTER FIT SITE CONDITIONS AND/OR LOCAL GOVERNMENT PREFERENCE.



DETAIL OF DIAMOND PATTERN*



PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

APPROVED
DATE STATE CONST. ENGINEER FOR HWYS

CURB RAMPS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE STATE DESIGN ENGINEER FOR HWYS
FHWA

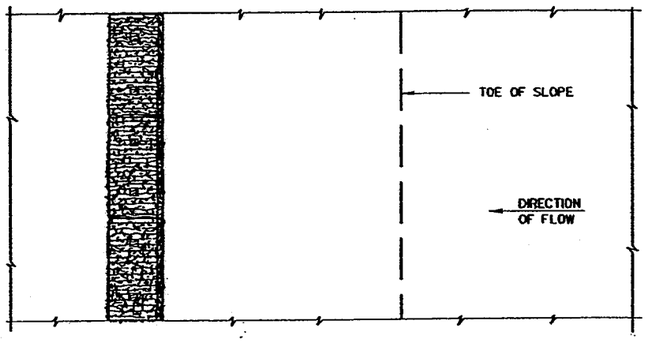
S.D.D. 8 D 5-8

REVISION DATES 4/15/91
PLOT NAME:
PLOT SCALE= 47
FILE NAME:
ORIGINATOR: MEL ZEMLICKA 6-2782

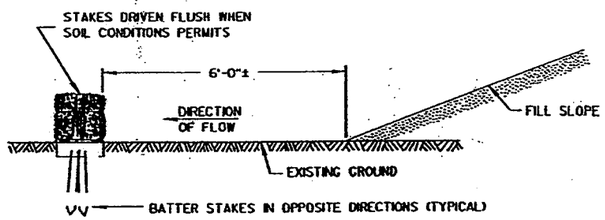
PLOT SCALE:
PLOT NAME:
REVISION DATE: 3-24-94
FILE NAME:
ORIGINATOR:
LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

APPROVED
DATE
STATE CONST. ENGINEER FOR HWYS

APPROVED
DATE
STATE MAINT. ENGINEER FOR HWYS

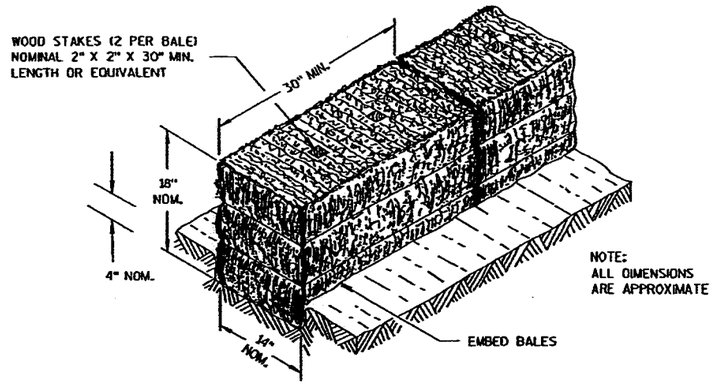


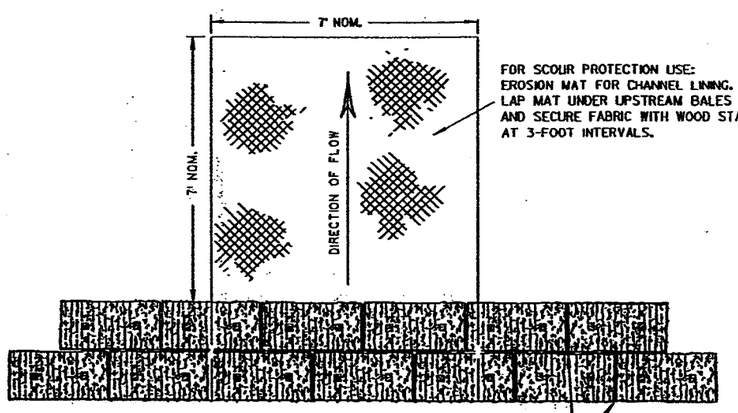
PLAN VIEW



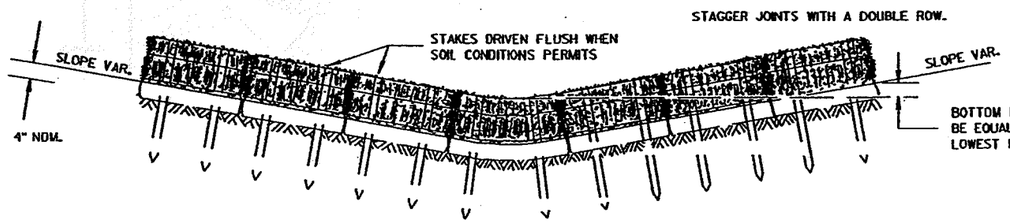
FRONT ELEVATION
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW



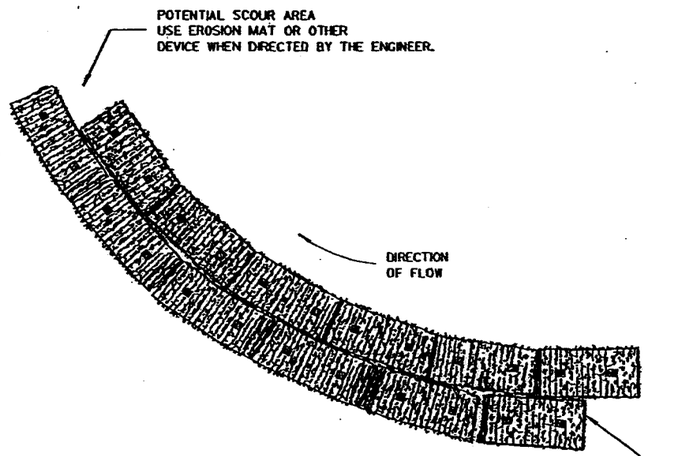


PLAN VIEW



FRONT ELEVATION

EROSION BALES FOR CHANNEL FLOW



PLAN VIEW

EROSION BALES WHEN ALTERING THE DIRECTION OF FLOW

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.

TYPICAL INSTALLATIONS OF EROSION BALES

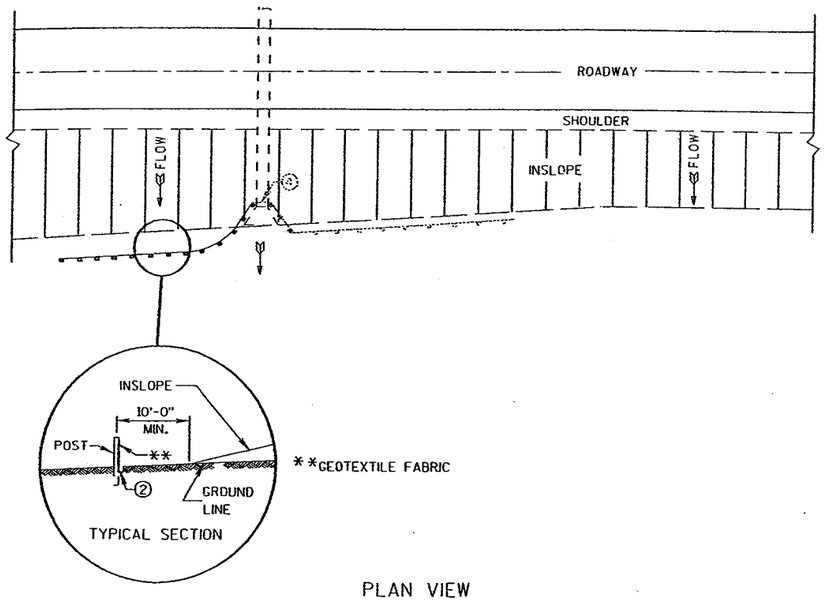
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE — CHIEF ROADWAY DEVELOPMENT ENGINEER

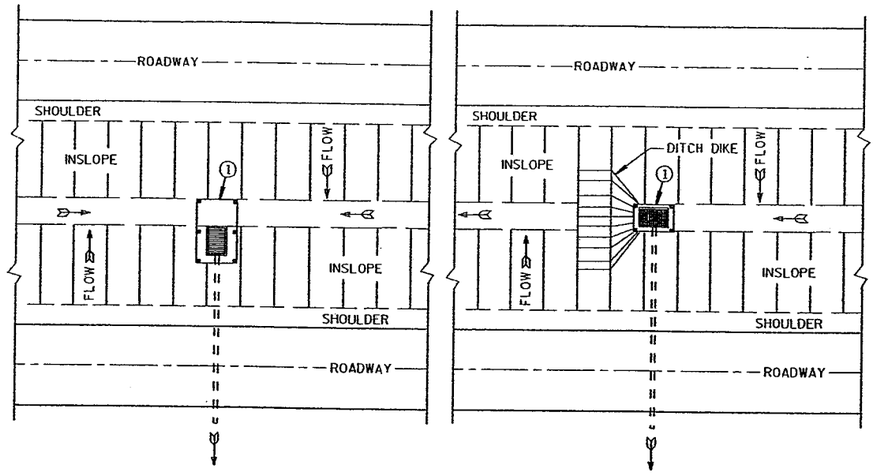
FHWA

S.D.D. 8 E 8-2



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

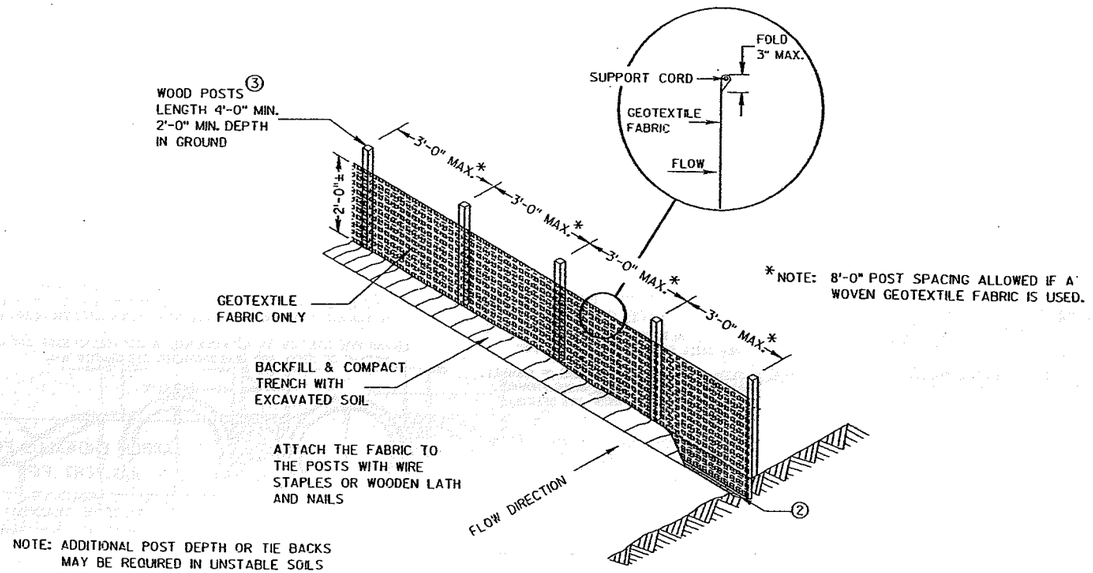
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

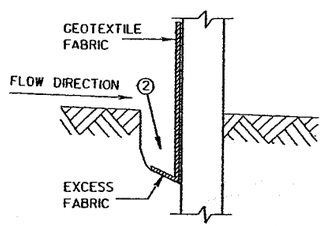
② TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

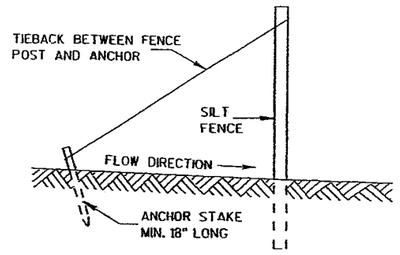
④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.



SILT FENCE



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
DATE	CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	

S.D.D. 8 E 9-5

METAL APRON ENDWALLS

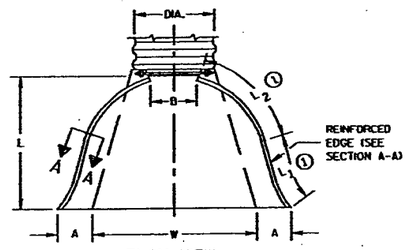
PIPE DIA. (IN.)	MIN. THICK. (inches) STEEL	MIN. THICK. (inches) ALUM.	DIMENSIONS (inches) A (±3")	B (MAX.)	H (±3")	L (±1½")	L_1 ①	L_2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17½	24	2½ to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21¾	30	2½ to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28¼	36	2½ to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29⅝	42	2½ to 1	1 Pc.
24	.064	.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	.079	.105	14	19	9	60	24	59⅜	72	2½ to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75⅝	84	2½ to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2½ to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85½	102	2¾ 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.

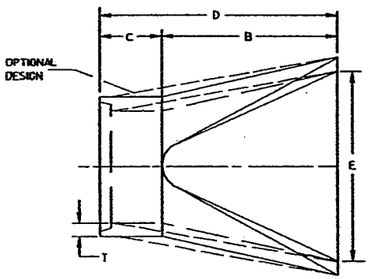
× EXCEPT CENTER PANEL SEE GENERAL NOTES

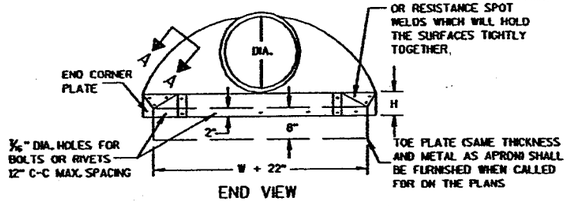
REINFORCED CONCRETE APRON ENDWALLS

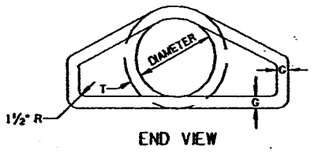
PIPE DIA. (IN.)	DIMENSIONS (inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48⅛	72⅛	24	2	3 to 1
15	2¼	6	27	45	73	30	2¼	3 to 1
18	2½	9	27	46	73	36	2½	3 to 1
21	2¾	9	36	37½	73½	42	2¾	3 to 1
24	3	9½	43½	30	73½	48	3	3 to 1
27	3¼	10½	49½	24	73½	54	3¼	3 to 1
30	3½	12	54	19¾	73½	60	3½	3 to 1
36	4	15	63	34¾	97¾	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	2⅘ 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

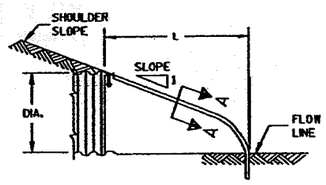
*MINIMUM
**MAXIMUM



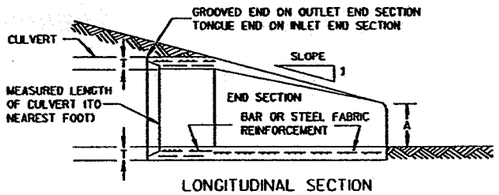




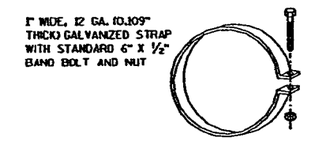




METAL ENDWALLS

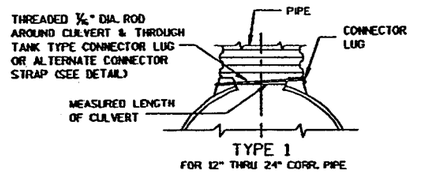


CONCRETE ENDWALLS

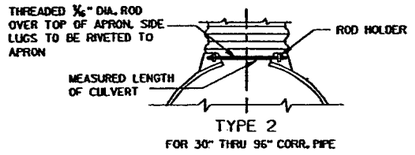


ALTERNATE FOR TYPE 1 CONNECTION

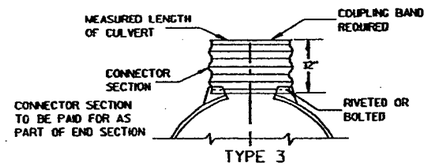
END SECTION CONNECTOR STRAP



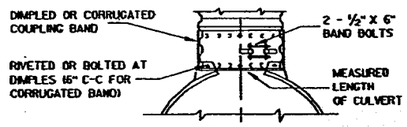
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

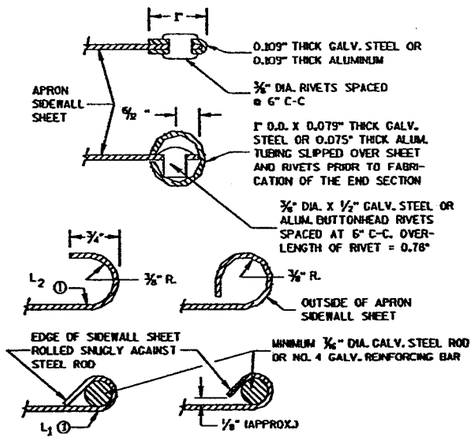
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

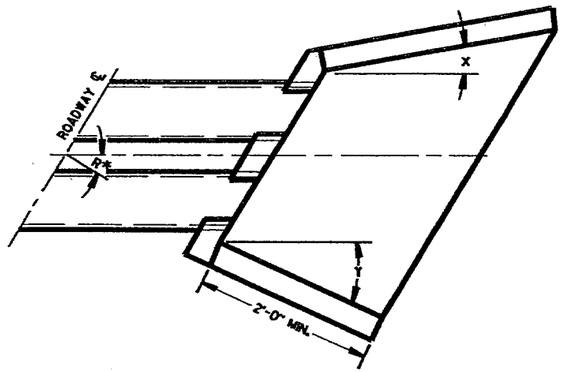
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

S.D.D. 8 F 1-11



WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	-	16 - 45°	10°	-
23 - 37°	20°	-	46 - 75°	5°	-
38 - 52°	15°	-	OVER 75°	0°	-
53 - 67°	10°	-			
68 - 82°	5°	-			
OVER 82°	0°	-			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

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.

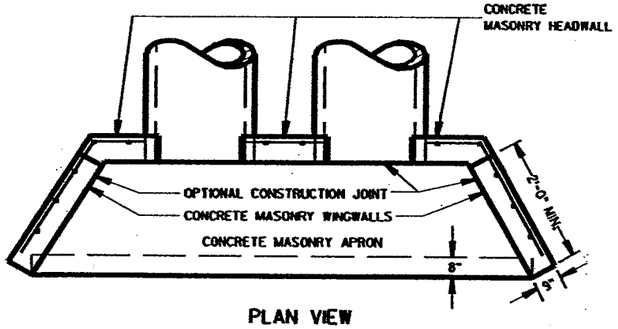
FILL SLOPES FLATTER THAN 2 ½:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

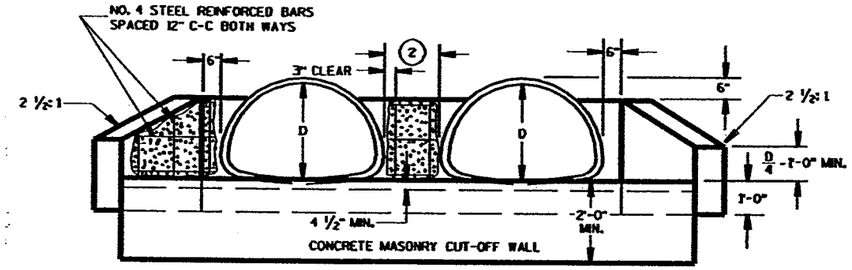
(2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3'-0"



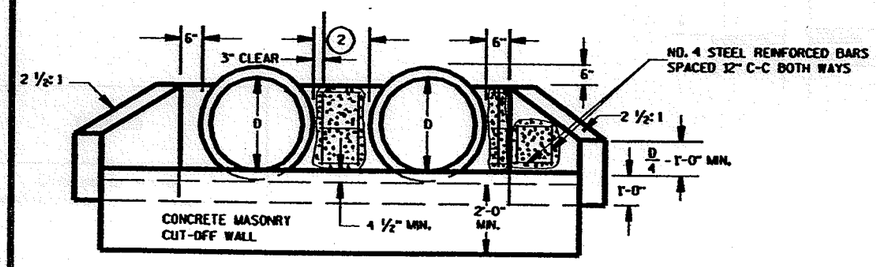
PLAN VIEW

CULVERT PIPE AND PIPE ARCH



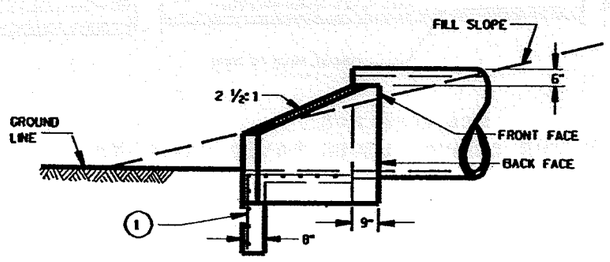
END ELEVATION

PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

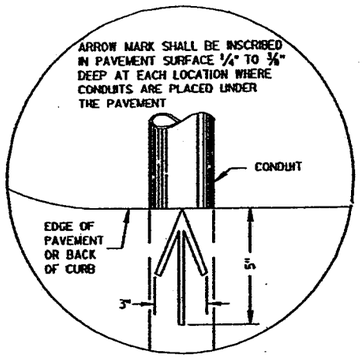
S.D.D. 8 F 10-1

PLOT SCALE: 0.110
PLOT NAME: 998205
REVISION DATE: 4-28-92
FILE NAME: 998205
ORIGINATOR: MEL ZENLICKA 6-2782
LEVELS ON - 4

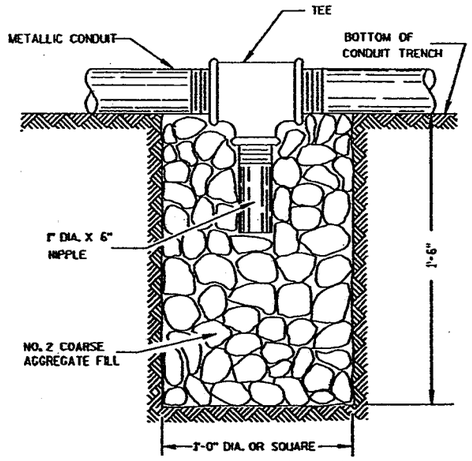
APPROVED
DATE — STATE DESIGN ENGINEER FOR HWYS

APPROVED
DATE — STATE CONST. ENGINEER FOR HWYS

APPROVED
DATE — STATE MAT'LS ENGINEER FOR HWYS

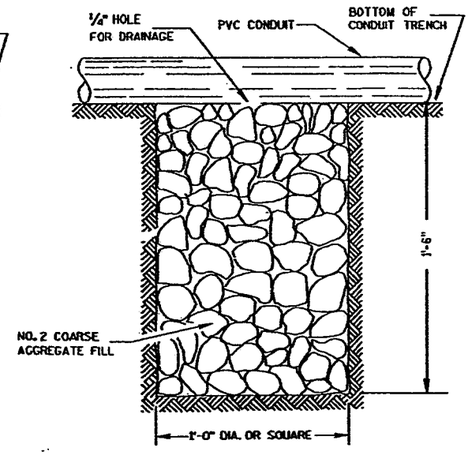


PLAN VIEW
ARROW MARK



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

DRAIN SUMP FOR METALLIC CONDUIT



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

DRAIN SUMP FOR PVC CONDUIT

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 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) 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 AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

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

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

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

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

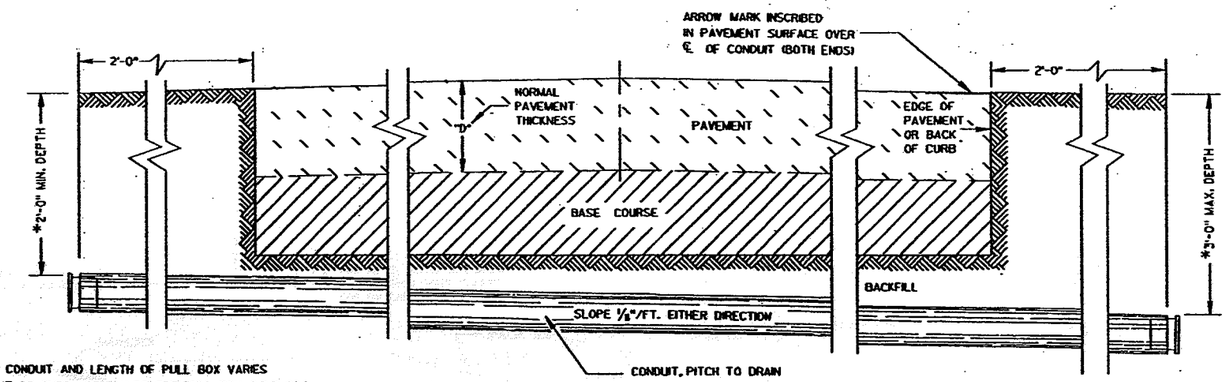
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

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

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

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

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.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 984

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED DATE — STATE ELECTRICAL ENGINEER FOR HIGHWAYS FHWA

S.D.D. 9 B 2-6

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		TYPE OF PIPE									
		CORRUGATED STEEL									POLYETHYLENE SDR 32.5
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24	12
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48	24
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.4
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4	10 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2	14 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	8 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2	11 1/2
WEIGHT IN POUNDS *											
FRAME AND COVER		60	60	60	110	110	110	155	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). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

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.

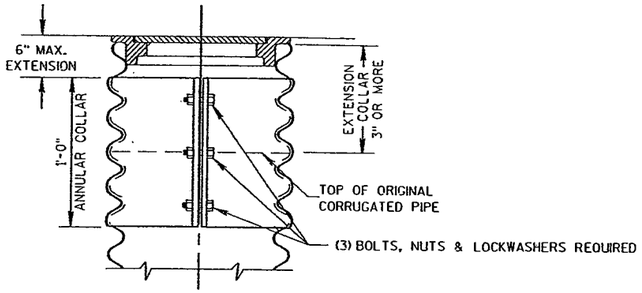
RODENT WIRE SCREEN SHALL BE 1/8" STAINLESS STEEL MESH AND BE INSTALLED WITH A STAINLESS STEEL HOSE CLAMP OF SUFFICIENT SIZE.

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

S.D.D. 9B2, "CONDUIT", APPLIES TO THIS DRAWING.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

IF PULL BOX EQUIPMENT GROUNDING IS REQUIRED USING AN EQUIPMENT GROUNDING ELECTRODE IN EACH PULL BOX, THE EQUIPMENT GROUNDING ELECTRODE SHALL BE 5/8" X 8'-0", COPPERCLAD AND BE EXOTHERMICALLY WELDED TO A #4 AWG, COPPER, STRANDED WIRE (BARE OR GREEN INSULATED). THE #4 AWG WIRE SHALL BE 4 FEET IN LENGTH, NEATLY COILED, TAPED AND AVAILABLE FOR USE WHEN REQUIRED.



CORRUGATED PIPE EXTENDER

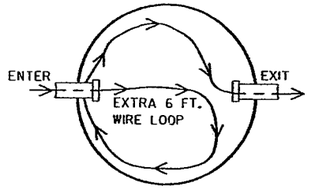
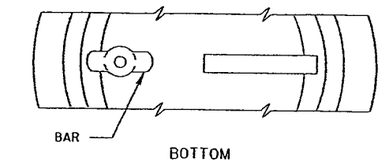
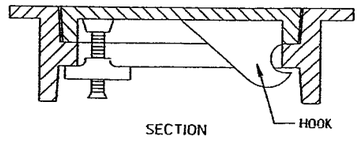


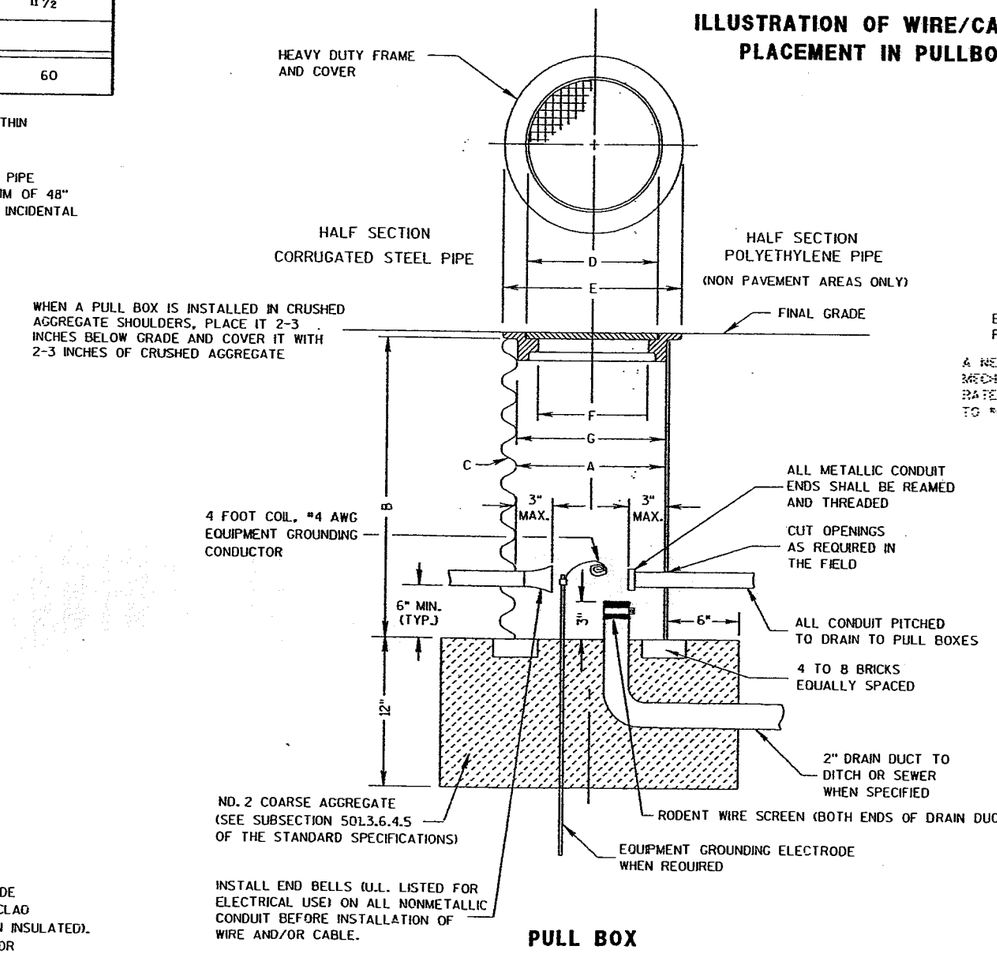
ILLUSTRATION OF WIRE/CABLE PLACEMENT IN PULLBOX



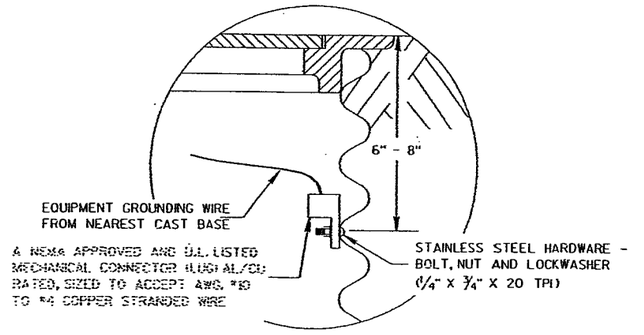


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

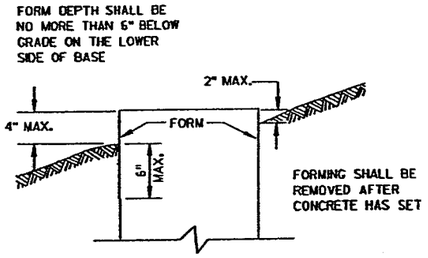
APPROVED

DATE
FHWA

STATE ELECTRICAL ENGINEER FOR HIGHWAYS

S.D.D. 9 B 4-4

S.D.D. 9 B 4-4



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	38

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.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. 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 INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

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 1FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2 AND TYPE 5 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR 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 EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD, ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-449, OR ASTM A-687 (GRADE 105).

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

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

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(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 RODS.

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

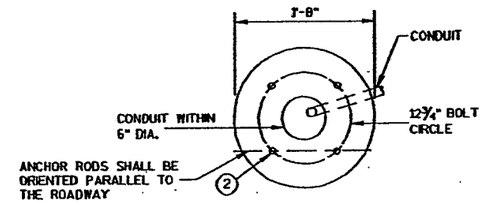
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

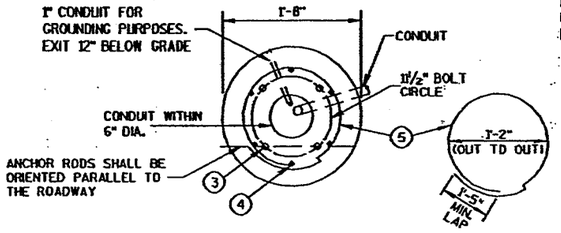
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

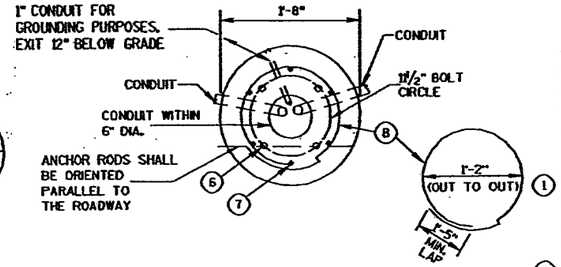
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

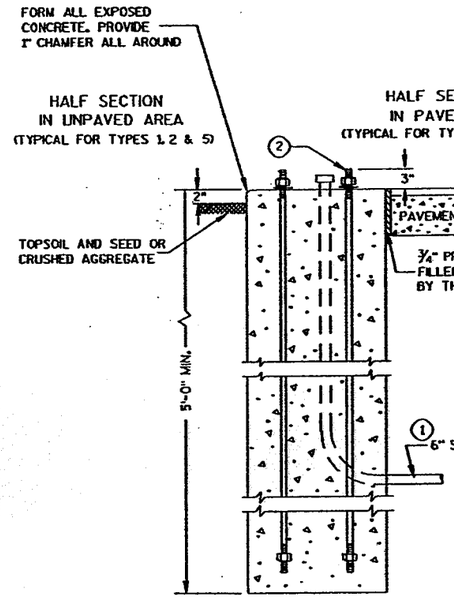
(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT

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

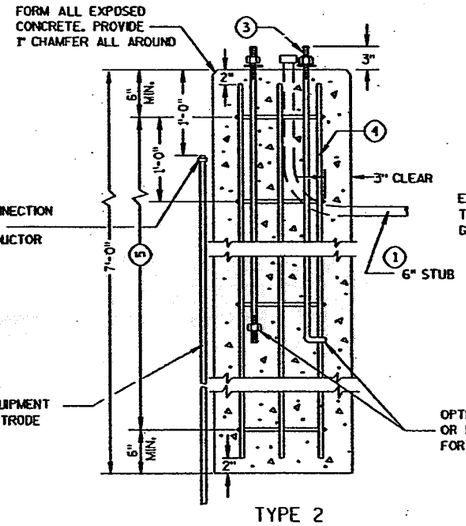




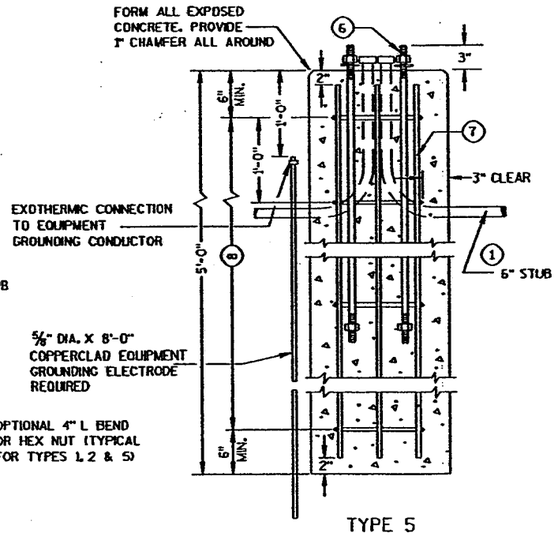




TYPE 1



TYPE 2



TYPE 5

CONCRETE BASES

S.D.D. 9 C 2-2

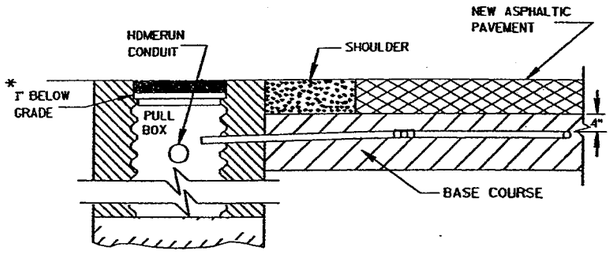
CONCRETE BASES, TYPES 1, 2 & 5

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE
FHWA

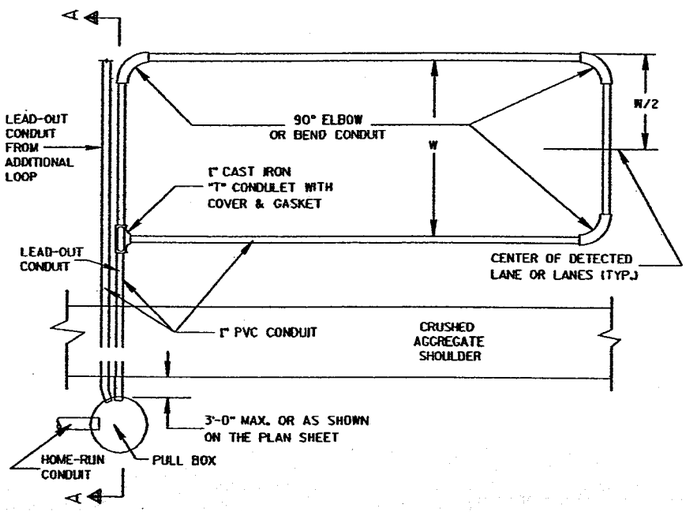
STATE ELECTRICAL ENGINEER FOR HIGHWAYS



SECTION A-A
NO CURB & GUTTER

DETECTOR LOOP INSTALLATION DETAIL

*RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.



TYPICAL PLAN OF LOOP DETECTOR

GENERAL NOTES

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

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD-OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS SUCH AS 3M TYPE 82A1 OR APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

THE GROUND RESISTANCE READING OF THE LOOP SHALL READ "INFINITY" TO GROUND ON AN OHMMETER USING A MULTIPLIER SCALE OF 1 MEGOHM AND AN INPUT RESISTANCE OF 11 MEGOHMS MINIMUM BEFORE SPLICING THE LOOP TO THE LEAD-IN CABLE.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

ANTI-SIEZE LUBRICATING MATERIAL SHALL BE USED ON ALL THREADS OF THREADED ASSEMBLIES BEFORE INSTALLATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

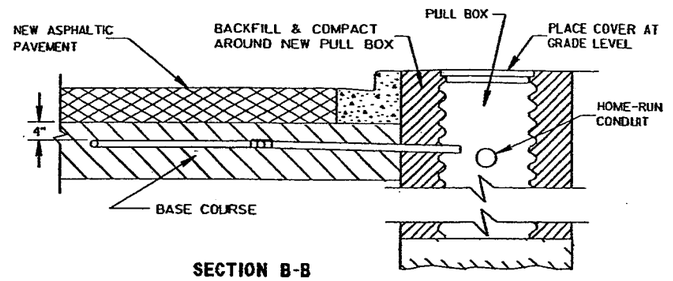
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP DUCT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT AND CONDULET SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE THE ASPHALTIC PAVEMENT IS PLACED.

WHEN MULTIPLE LAYERS OF ASPHALTIC PAVEMENT ARE TO BE PLACED, LOOPS MAY BE INSTALLED BY SAWING A TWO INCH WIDE SLOT IN THE FIRST LAYER, DIG OUT THE ASPHALTIC MATERIAL AND BASE COURSE, PLACE THE LOOP, FILL THE SLOT WITH BASE COURSE MATERIAL AND NEW ASPHALTIC MATERIAL AND TAMP THE ASPHALTIC MATERIAL IN PLACE.

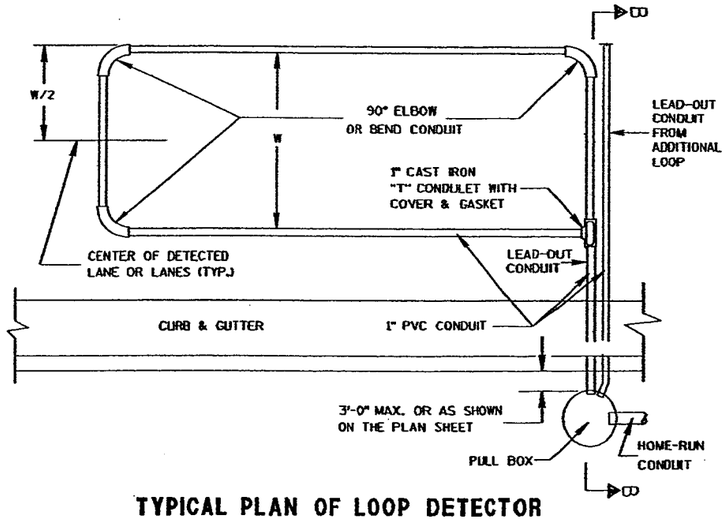
SHOULD TRAFFIC BE ALLOWED TO USE THE AREA OF ROADWAY WITH THE NEWLY INSTALLED LOOP BEFORE THE PLACEMENT OF THE NEXT LAYER OF ASPHALTIC PAVEMENT, THE SLOT/PAVEMENT OPENING SHALL BE SEALED WITH HOT POURED ELASTIC TYPE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, ASTM DESIGNATION: D3405".

DRIVE A 1½" MAX. PK NAIL INTO THE NEW ASPHALTIC PAVEMENT AND DIRECTLY ABOVE THE CONDULET AFTER THE FINAL LAYER OF NEW ASPHALTIC PAVEMENT IS COMPLETELY INSTALLED, IF REQUIRED BY THE DISTRICT TRAFFIC SECTION.



SECTION B-B
CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAIL



TYPICAL PLAN OF LOOP DETECTOR

LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW ~~ASPHALTIC~~ PAVEMENT)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE FHWA — STATE ELECTRICAL ENGINEER FOR HIGHWAYS

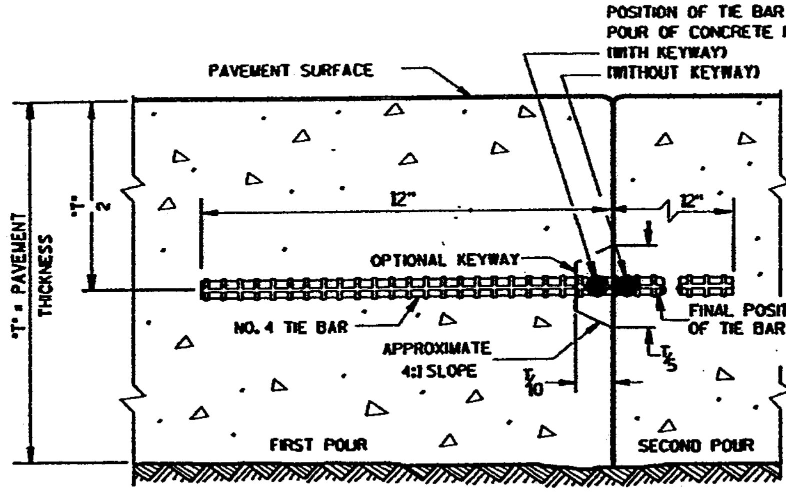
APPROVED
DATE — STATE DESIGN ENGINEER FOR HWYS

APPROVED
DATE — STATE MAT'LS ENGINEER FOR HWYS

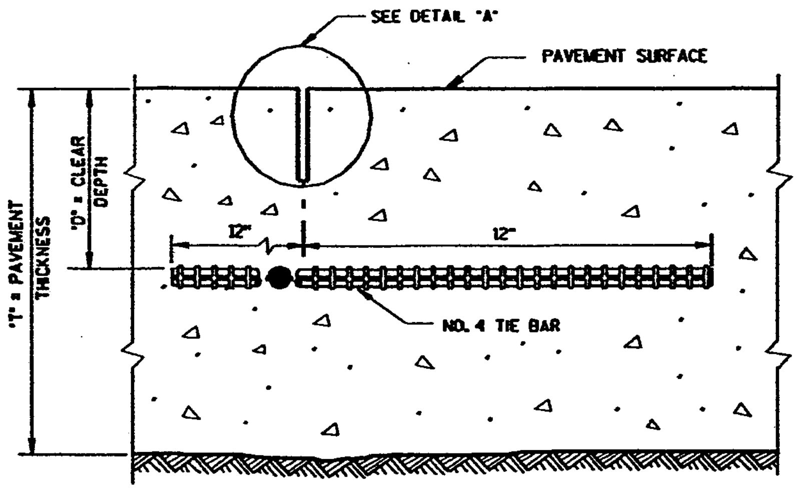
APPROVED
DATE — STATE CONST. ENGINEER FOR HWYS

S.D.D. 9 F 8-2

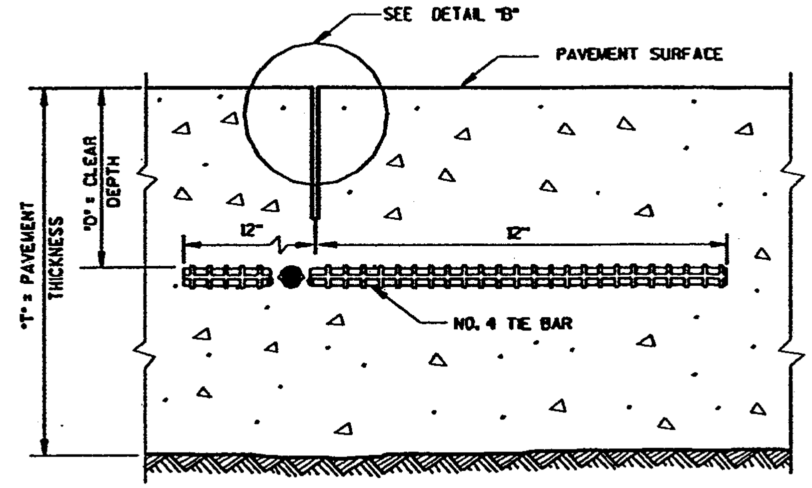
PLOT NAME: S9F802 REVISION DATE: 3-24-98
PLOT SCALE: 1 1/2
FILE NAME: S9F802
ORIGINATOR: MEL ZEMLICKA 11-27-82
LEVELS ON • 1,2,3,4,5,6,7,8,9, 11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63



CONSTRUCTION JOINT



SAWED JOINT



RIBBON JOINT

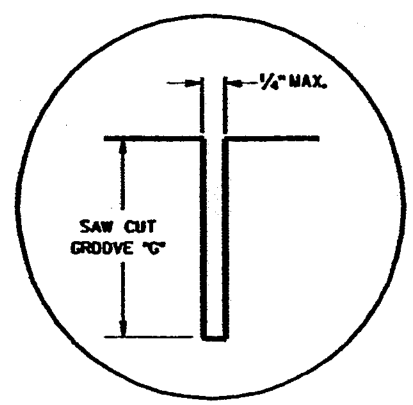
GENERAL NOTES

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

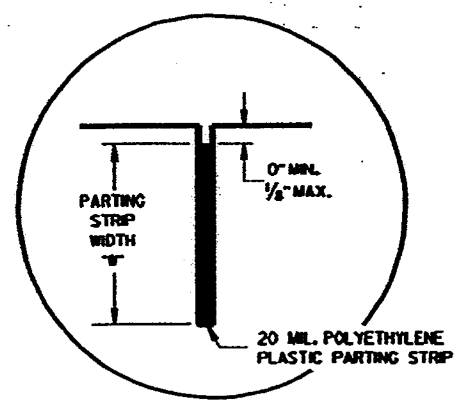
DETAILS "A" AND "B" ARE EQUAL ALTERNATES UNLESS OTHERWISE SPECIFIED IN THE CONTRACT.

LONGITUDINAL JOINTS SHALL NOT BE SEALED OR FILLED.

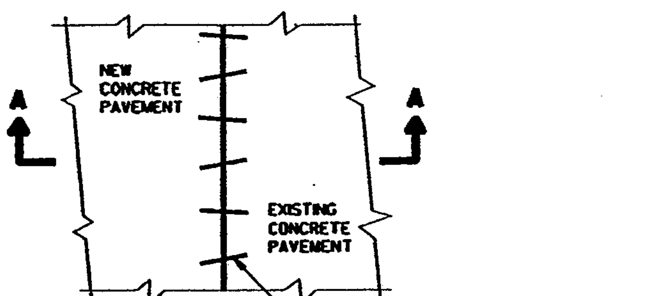
TIE BAR SPACINGS ARE VALID ONLY FOR PAVEMENT WIDTHS IN THE TABLE. FOR WIDER PAVEMENTS, TIED CONCRETE SHOULDERS OR RAMPS, THE TIE BAR SPACING SHALL BE AS SHOWN ON THE PLANS.



DETAIL "A"

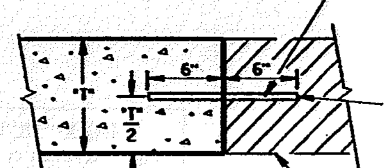


DETAIL "B"



PLAN VIEW

NO. 6 TIE BARS SPACED 3'-0" C-C, INSTALLED ON 6:1 SKEW HORIZONTALLY. DIRECTION OF SKEW ALTERNATING AFTER EVERY ONE OR TWO BARS.



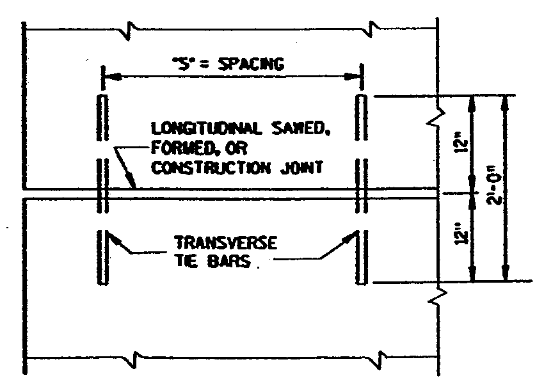
THE HOLE FOR THE BAR SHALL BE DRILLED TO A DEPTH OF 7" AND TO SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

EXIST. CONC. PAVEMENT

SECTION A-A

PAVEMENT TIES

PAVEMENT THICKNESS "T"	CLEAR DEPTH "D"	SAW CUT GROOVE "G"	MAXIMUM TIE BAR SPACING "S" PAVEMENT WIDTH		PARTING STRIP WIDTH "W"
			24' OR 26'	30'	
6, 6 1/2"	3"±1/2"	2"	48"	42"	2"
7, 7 1/2"	3 1/4"±1"	2 1/4"	45"	36"	2 1/4"
8, 8 1/2"	3 3/4"±1"	2 1/2"	39"	30"	2 1/2"
9, 9 1/2"	4 1/4"±1"	3"	33"	27"	3"
10, 10 1/2"	4 3/4"±1"	3 1/4"	30"	24"	3 1/4"
11, 11 1/2"	5 1/4"±1"	3 3/4"	27"	21"	3 3/4"
12"	5 3/4"±1"	4	24"	21"	4"



PLAN VIEW

SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT
LONGITUDINAL JOINTS
AND PAVEMENT TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

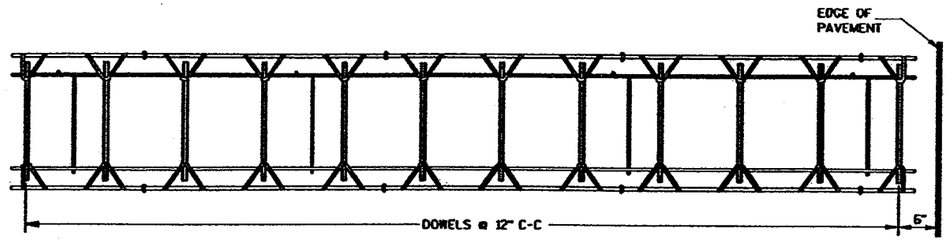
APPROVED

DATE CHIEF PAVEMENTS & RESEARCH ENGINEER

FHWA

S.D.D. 13 C 1-10

REVISION DATE: 11-6-91 PLOT NAME: 13C10 PLOT SCALE: 0.10 FILE NAME: 13C10 ORIGINATOR: MEL ZEMLICKA 6-2782 LEVELS ON: 1, 5,



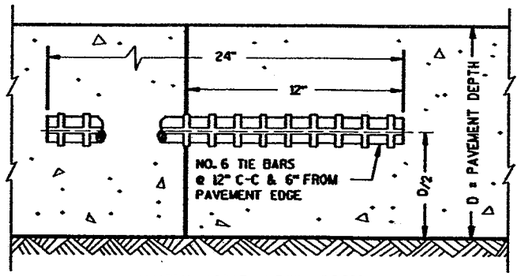
PLAN VIEW

SIDE VIEW

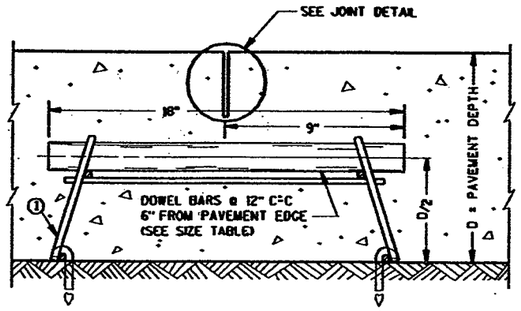
CONTRACTION JOINT DOWEL ASSEMBLY ①

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

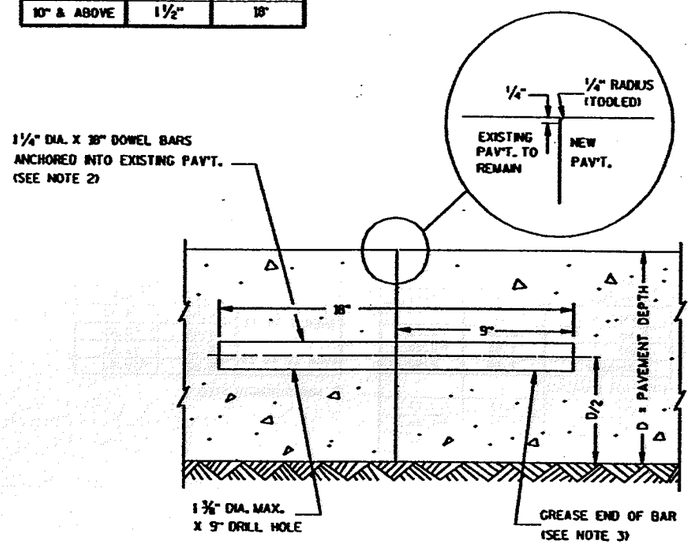
PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6",6 ½"	1¼"	12'
7",7 ½"	1¼"	14'
8",8 ½"	1¼"	15'
9",9 ½"	1¼"	15'
10" & ABOVE	1½"	18'



CONSTRUCTION JOINT

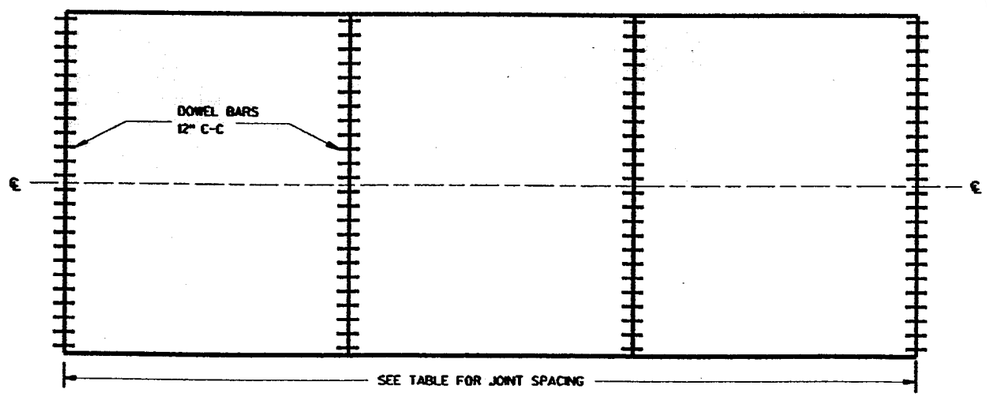


DOWELED CONTRACTION JOINT



TRANSVERSE CONTRACTION JOINTS ABUTTING EXISTING PAVEMENT

④ DOWEL BAR DETAIL



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

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

CONTRACTION JOINTS

UNLESS OTHERWISE SPECIFIED, CONTRACTION JOINTS SHALL BE NORMAL TO THE CENTERLINE. THE LOCATION OF CONTRACTION JOINTS THRU INTERSECTIONS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

CONTRACTION JOINTS SHALL NOT BE SEALED OR FILLED.

DOWEL BARS SHALL BE INSTALLED PARALLEL TO THE PAVEMENT CENTERLINE AND SURFACE.

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.

① ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY MAY BE USED WHEN APPROVED BY THE ENGINEER. MECHANICAL DOWEL BAR IMPLANTERS MAY BE USED INSTEAD OF DOWEL ASSEMBLIES.

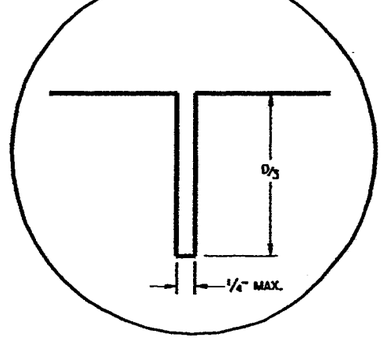
② DOWEL BARS SHALL BE ANCHORED INTO DRILL HOLES WITH AN APPROVED EPOXY GROUT.

③ THE FREE END OF DOWEL BARS SHALL RECEIVE A THIN UNIFORM COATING OF BOND BREAKING GREASE.

④ DOWEL BARS INSTALLED BY DRILLING SHALL BE SPACED 1'-3" ON CENTER. THE GROUPING OF DOWEL BARS SHALL BE CENTERED INSIDE THE SLAB BASED ON ALL THE FOLLOWING SITUATIONS:

BETWEEN THE EDGES OF PAVEMENTS WITHOUT LONGITUDINAL JOINTS OR BETWEEN THE EDGE OF PAVEMENT AND NEAREST LONGITUDINAL JOINT OR BETWEEN TWO ADJACENT LONGITUDINAL JOINTS.

THE CLEAR DISTANCE FROM THE EDGE OF PAVEMENT OR LONGITUDINAL JOINT TO THE NEAR EDGE OF DOWEL BAR NEAREST THAT EDGE OR JOINT SHALL BE A MINIMUM OF 6 INCHES AND A MAXIMUM OF 14 INCHES.



JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

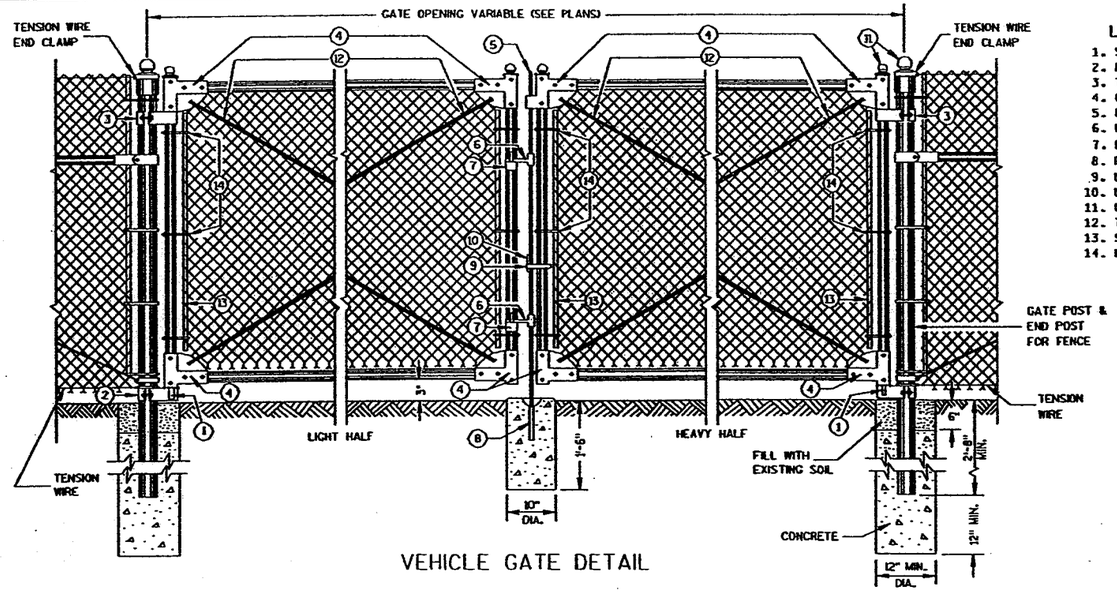
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

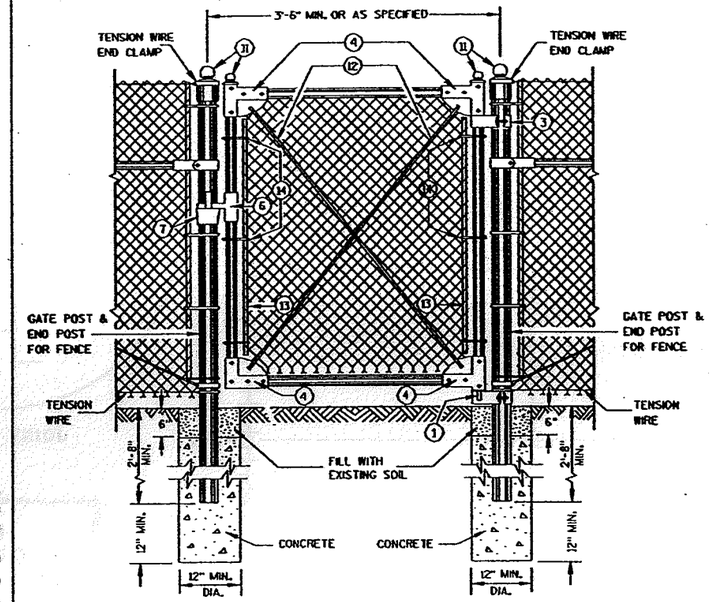
DATE — CHIEF PAVEMENTS & RESEARCH ENGINEER

FHWA

S.D.D. 13 C 13-3



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

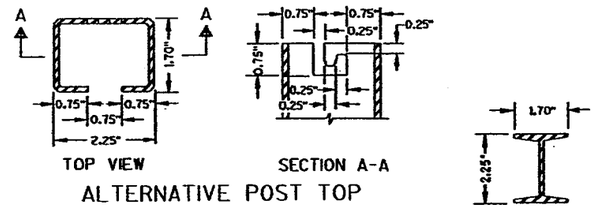
LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. CORNER ELBOW
5. PLUNGER ROD
6. LATCH FORK
7. FORK CATCH
8. PLUNGER ROD CATCH
9. LOCK KEEPER GUIDE
10. LOCK KEEPER
11. ORNAMENTAL TOPS
12. TRUSS RODS
13. STRETCHER BAR
14. HOOK BOLTS

GENERAL NOTES

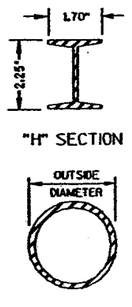
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS. DETAILS NOT COVERED BY ANY OF THE ABOVE SHALL CONFORM TO THE MANUFACTURERS SPECIFICATIONS.

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

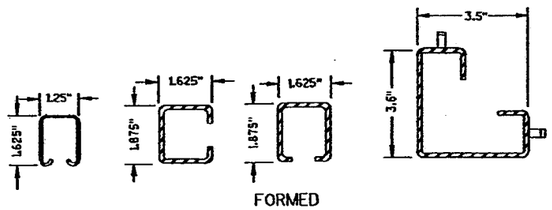


TOP VIEW SECTION A-A

ALTERNATIVE POST TOP



"H" SECTION



FORMED

ROUND

CROSS SECTIONS OF POSTS AND RAILS

SHAPE, SIZE AND WEIGHT REQUIREMENTS FOR FENCE POSTS AND RAILS

USE	FENCE HT. FEET	SHAPE	OUTSIDE DIMENSIONS INCHES	WEIGHT LBS./L.F.
TERMINAL POSTS **	6 AND LESS	ROUND	2.375	3.65
	6 AND LESS	*ROUND	2.375	3.12
	OVER 6	ROUND	2.875	5.79
	OVER 6	*ROUND	2.875	4.64
	ALL HEIGHTS	FORMED	3.5 X 3.5	5.14
LINE POSTS	6 AND LESS	ROUND	1.90	2.72
		*ROUND	1.90	2.28
		"H" SECTION	2.25 X 1.70	3.26
		FORMED	1.875 X 1.625	1.65
	OVER 6	ROUND	2.375	3.65
		*ROUND	2.375	3.12
		"H" SECTION	2.25 X 1.70	3.26
		FORMED	1.875 X 1.625	2.28
BRACE RAIL		ROUND	1.66	2.27
		*ROUND	1.66	1.84
		FORMED	1.625 X 1.25	1.35

* HIGH STRENGTH STEEL

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

GATE FRAME MEMBERS, SIZE AND WEIGHT

GATE FABRIC HEIGHT (FEET)	OUTSIDE DIMENSION (INCHES)	WEIGHT LBS./L.F.
6 OR LESS		
Round	1.66	2.27
Round	1.66	*1.84
Rectangular	1.50	1.84
OVER 6		
Round	1.90	2.72
Round	1.90	*2.28
Rectangular	2.00	2.52
INTERIOR BRACING		
Round	1.66	2.27
Round	1.66	*1.84
Rectangular	1.50	1.84

* HIGH STRENGTH STEEL

GATE POST SIZE AND WEIGHT

GATE LEAF WIDTH (FEET)	POST SIZE (INCHES)	
	OUTSIDE DIAMETER (INCHES)	WEIGHT LBS./L.F.
6 AND UNDER	2.875	5.79
	2.875	*4.64
OVER 6 TO 12	4.00	9.10
	4.00	*8.65
OVER 12 TO 18	6.62	18.97
	6.62	*18.02

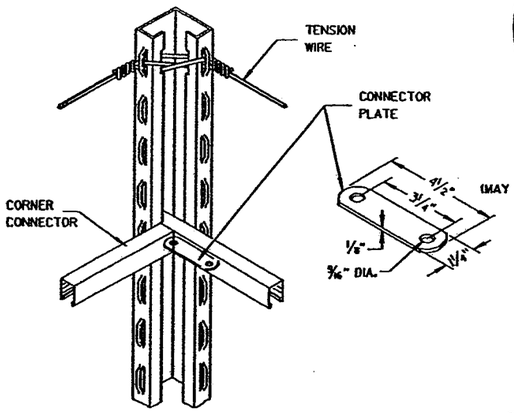
* HIGH STRENGTH STEEL

CHAIN LINK FENCE

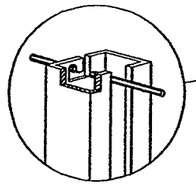
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 15 B 3-10a

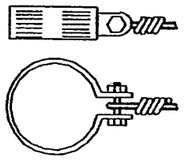
FILE NAME: SIS3084 PLOT NAME: SIS3084 REVISION DATE: 4-29-92
PLOT SCALE: 01.810 ORIGINATOR: MGL ZEMLICKA 6-2782
LEVELS OF 1 2
S.D.D. 15 B 3-10a



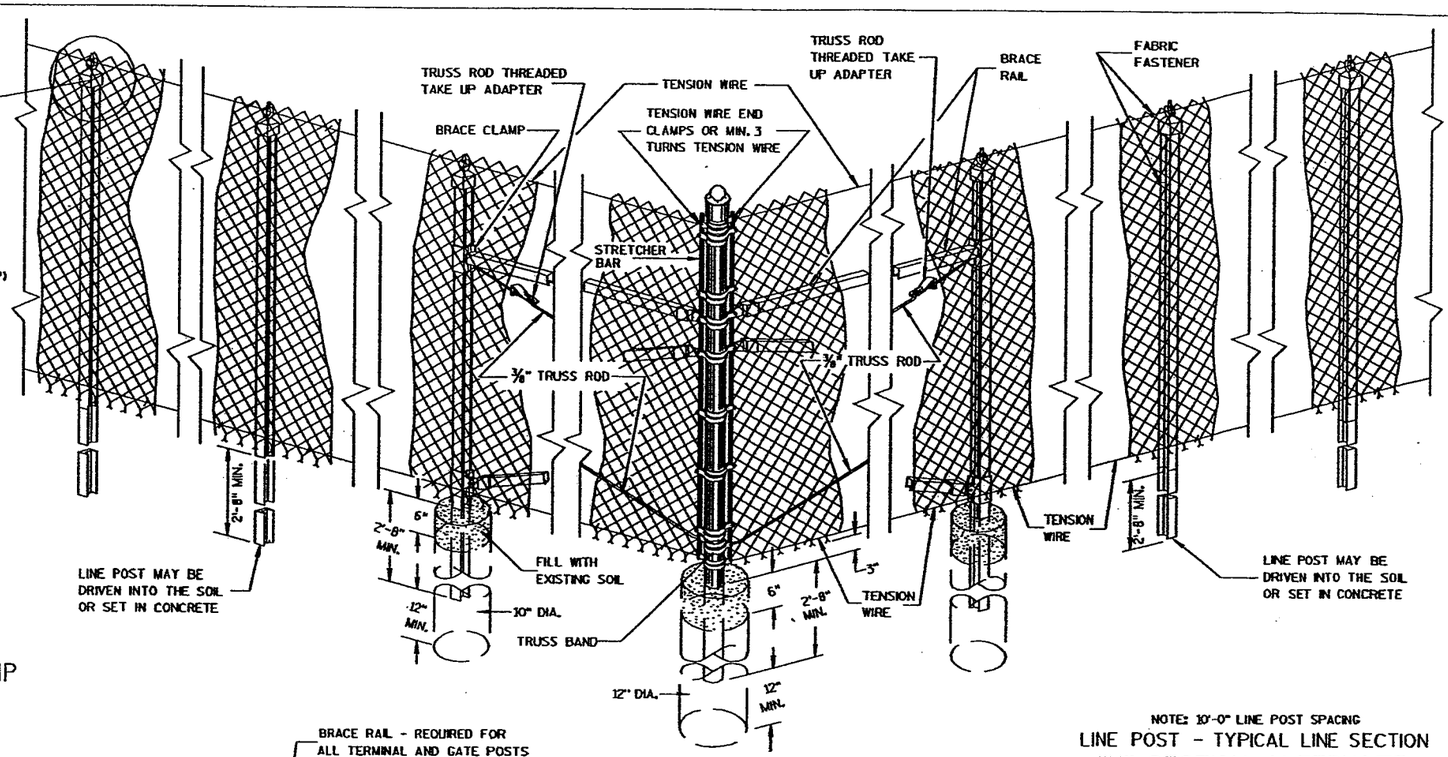
BRACE RAIL CORNER CONNECTION
ROLL FORMED POST



ALTERNATIVE
POST TOP
(MAY BE USED INSTEAD OF LOOP CAP)

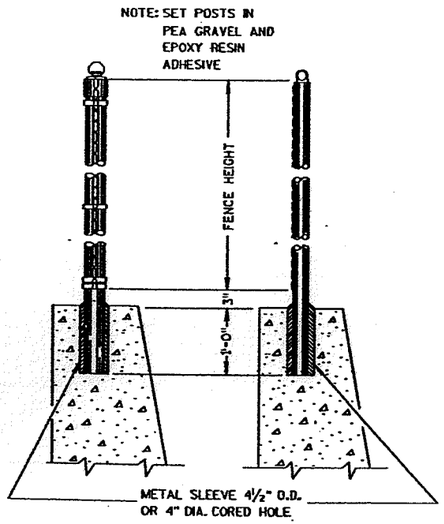


TENSION WIRE END CLAMP

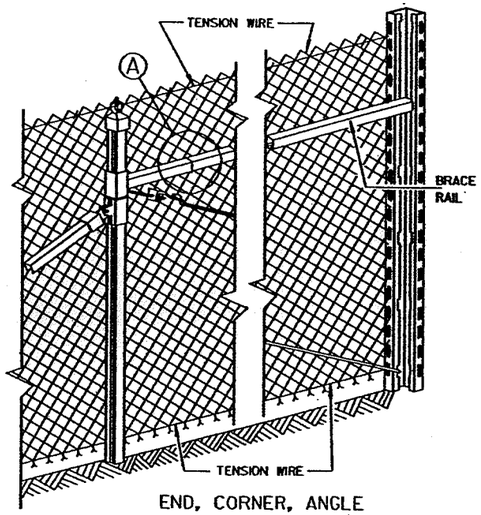


END, CORNER, ANGLE
INTERSECTION & INTERMEDIATE
BRACED POSTS
PIPE ALTERNATE

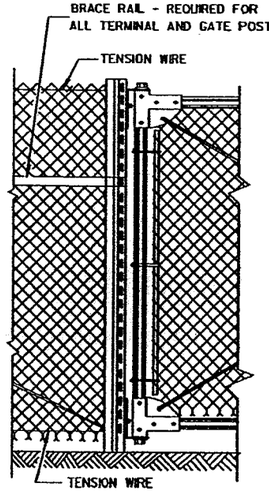
NOTE: 10'-0" LINE POST SPACING
LINE POST - TYPICAL LINE SECTION
"H" SECTION ALTERNATE



END POST &
CORNER POST
LINE POST



END, CORNER, ANGLE
INTERSECTION & INTERMEDIATE
BRACED POSTS

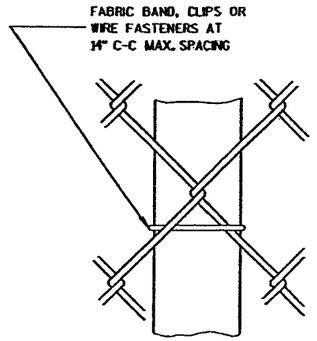


TERMINAL OR GATE POST

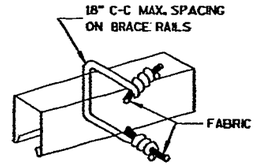
DETAILS OF FENCE ON WALL

ROLL FORMED ALTERNATE

NOTE: DETAILS OF FOOTINGS ARE SHOWN ON THE PIPE ALTERNATE DETAIL



LINE POST
FABRIC FASTENER



BRACE RAIL
FABRIC FASTENER
Ⓐ

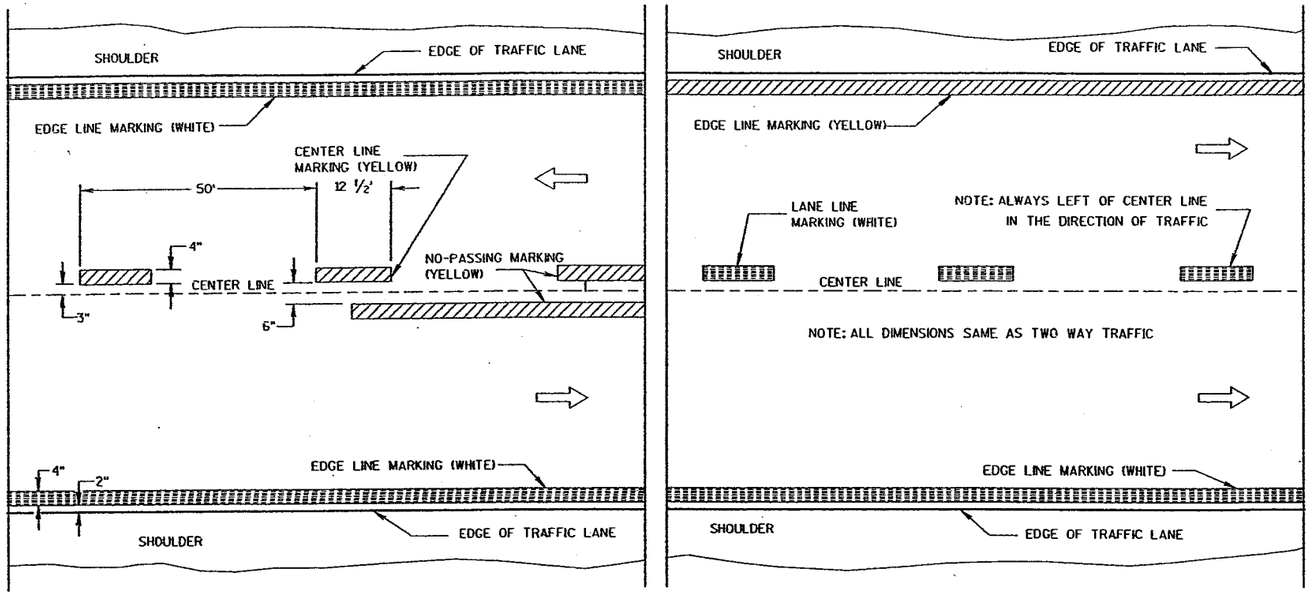
CHAIN LINK FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

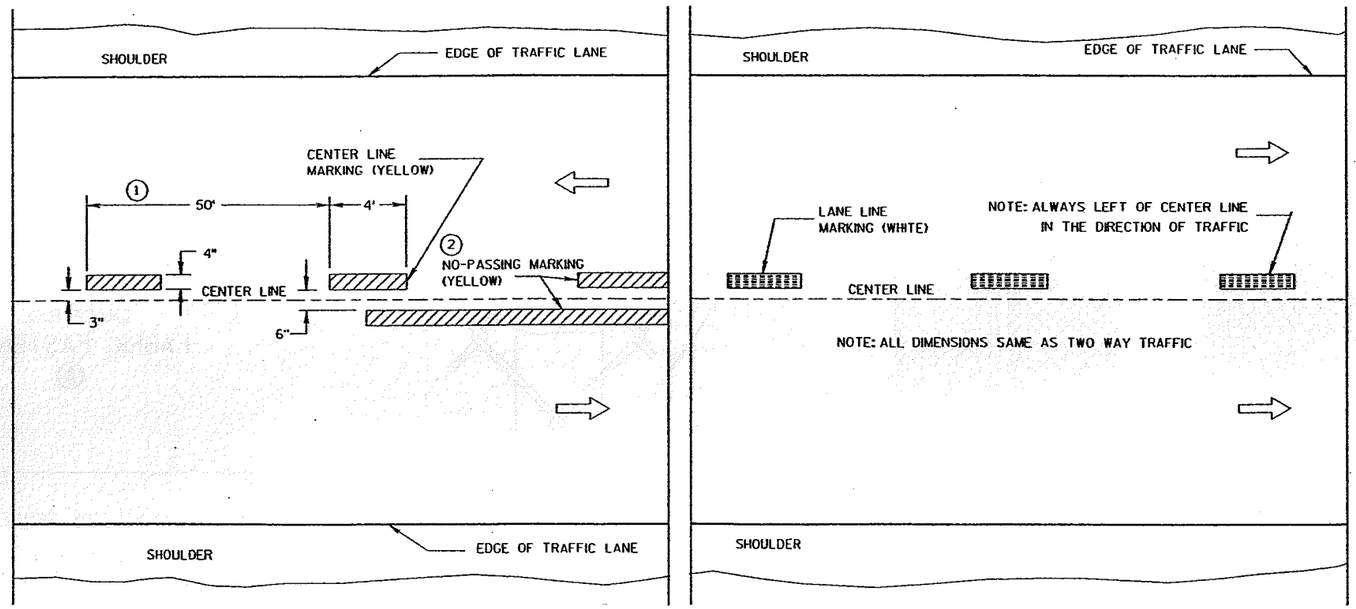
S.D.D. 15 B 3-10b



TWO WAY TRAFFIC

ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC

ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

GENERAL NOTES

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

(1) 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.

(2) NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE

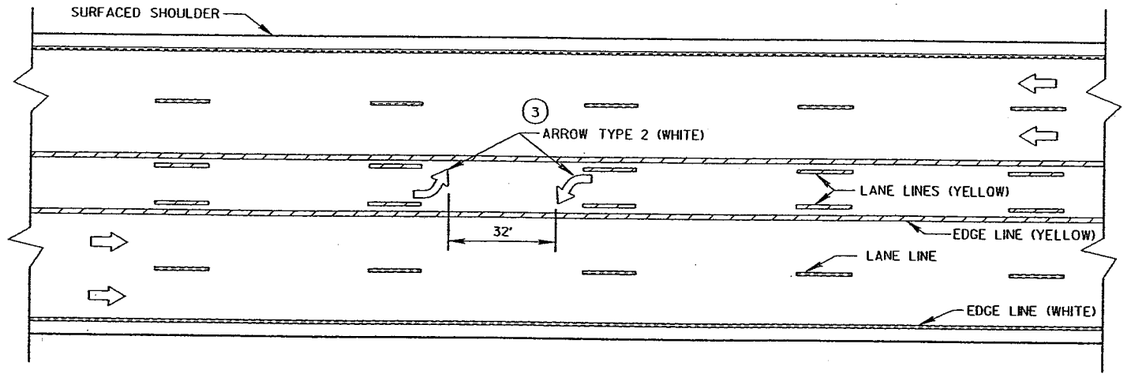
CHIEF SIGNS AND MARKING ENGINEER

FHWA

S.D.D. 15 C 8-9a

S.D.D. 15 C 8-9a

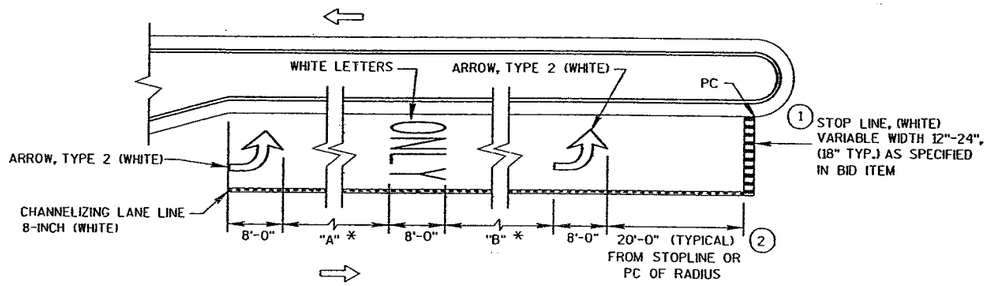
NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

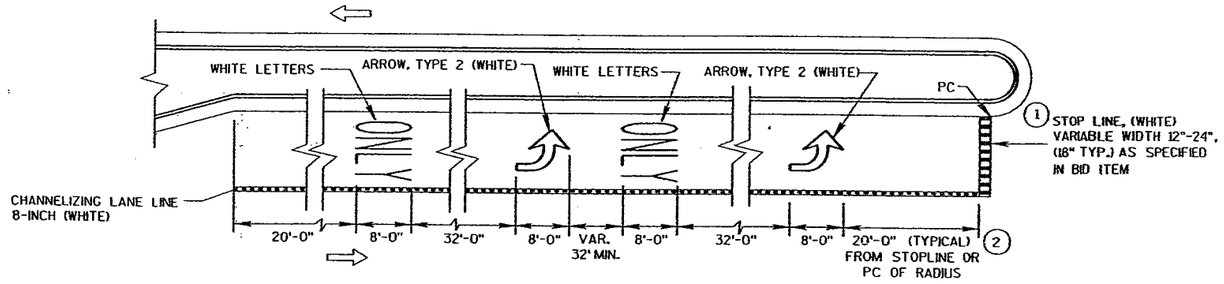
NOTES:

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400' OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

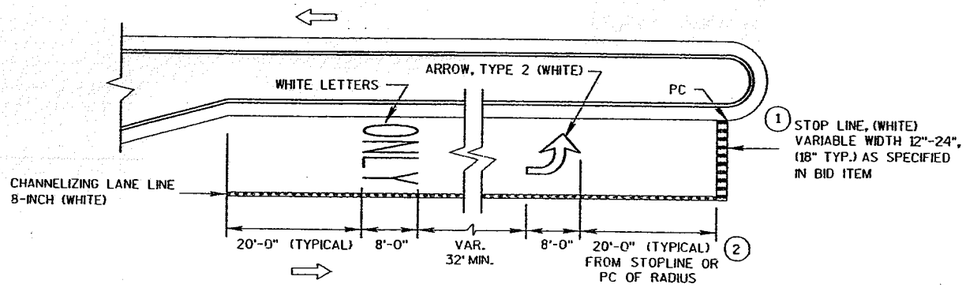


*VARIABLE, 32' MIN.
"A" = "B" (TYPICAL)

LEFT TURN LANE
(LENGTH 108' TO 167')



LEFT TURN LANE
(LENGTH OVER 167')

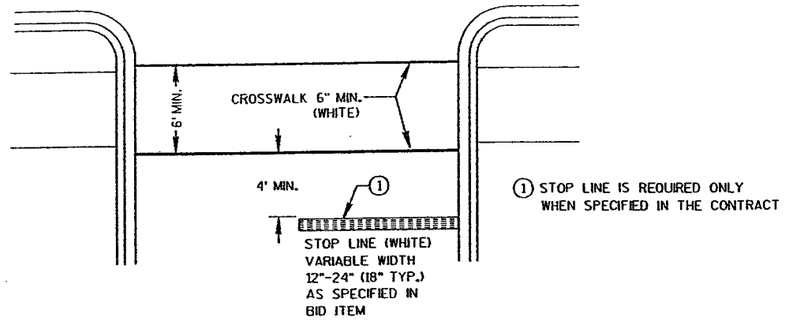


LEFT TURN LANE
(LENGTH UNDER 108')

PAVEMENT MARKING (LEFT TURN LANE)
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

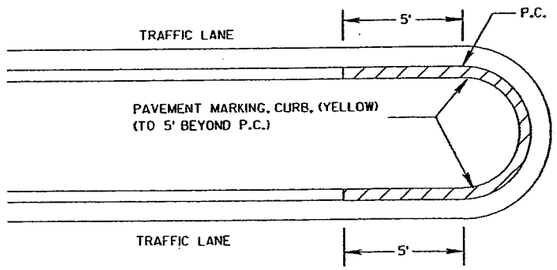
S.D.D. 15 C 8-9d

S.D.D. 15 C 8-9d

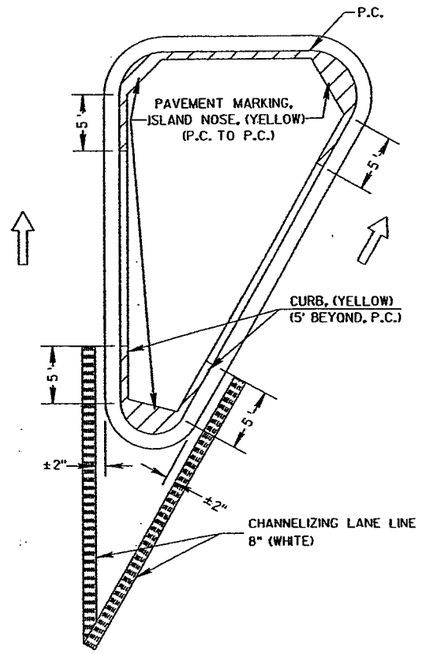


1 STOP LINE IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT

STOP LINE AND CROSSWALK

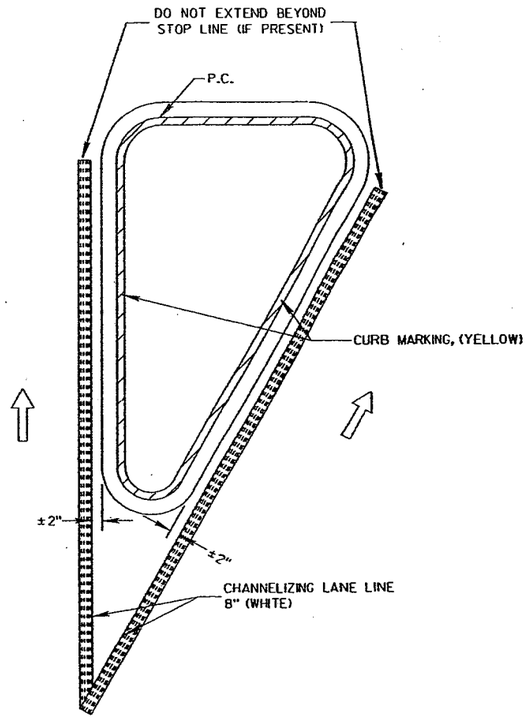


MEDIAN CURB



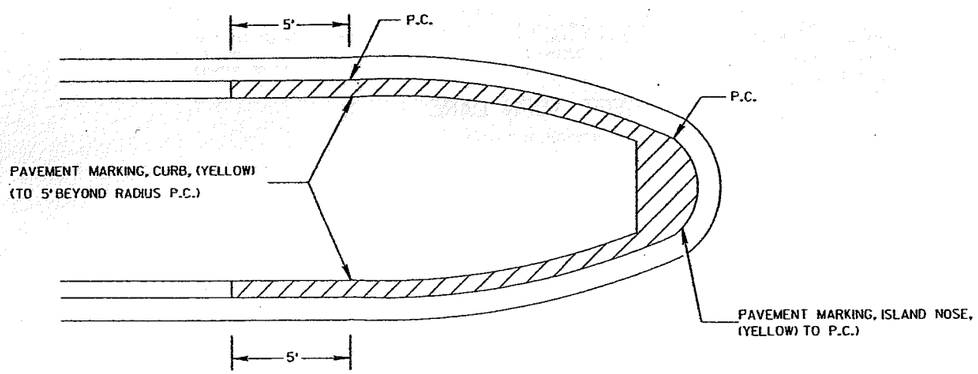
LARGE ISLAND

(GREATER THAN 50' PERIMETER OR ANY SIDE GREATER THAN 25' BETWEEN CURVES)



SMALL ISLAND

(LESS THAN 50' PERIMETER OR ANY SIDE LESS THAN 25' BETWEEN CURVES)



BULLET NOSE ISLAND

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS, STOP LINE &
CROSS WALK)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

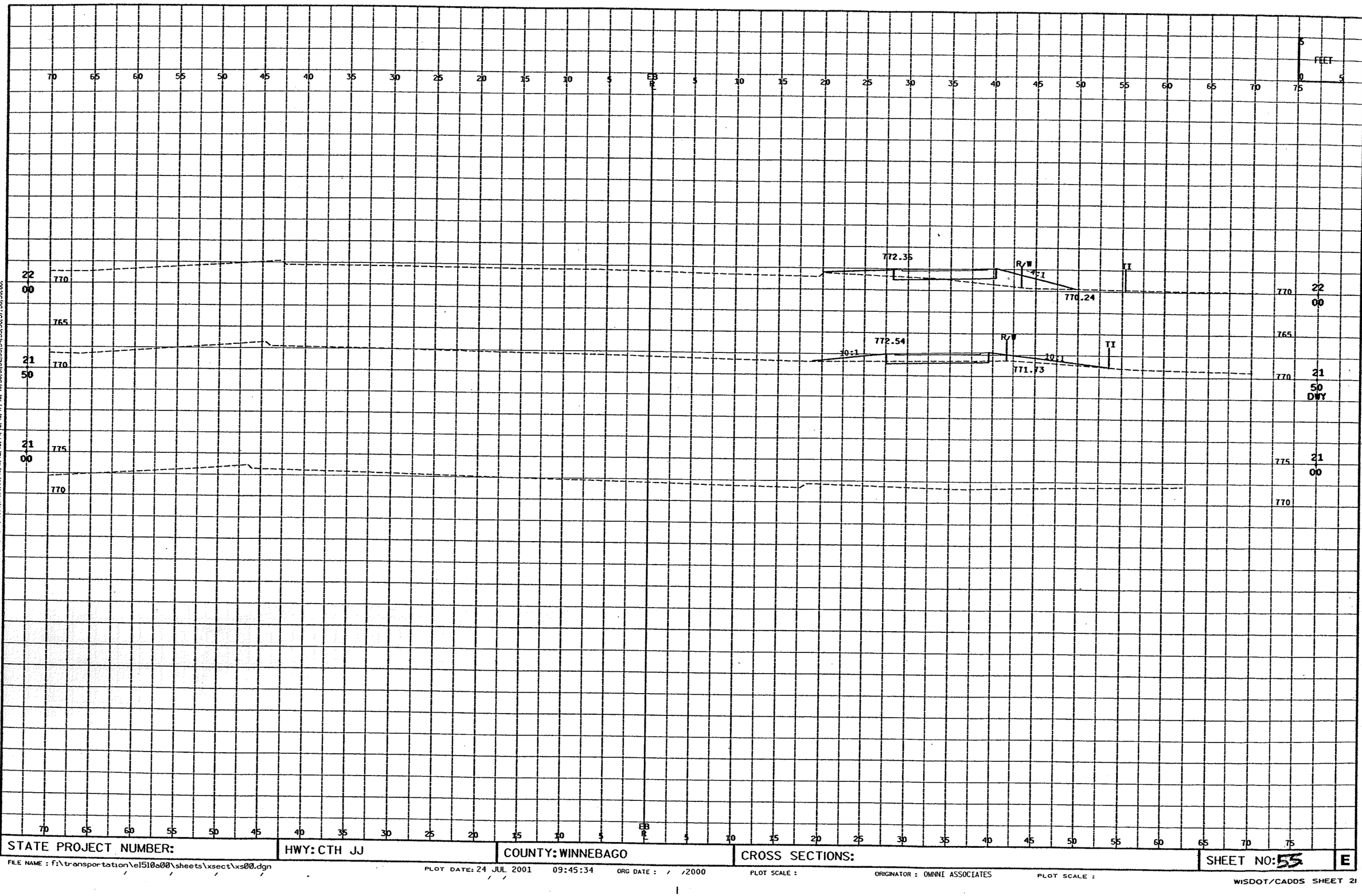
DATE

CHIEF SIGNS AND MARKING ENGINEER

FHWA

S.D.D. 15 C 8-9e

S.D.D. 15 C 8-9e



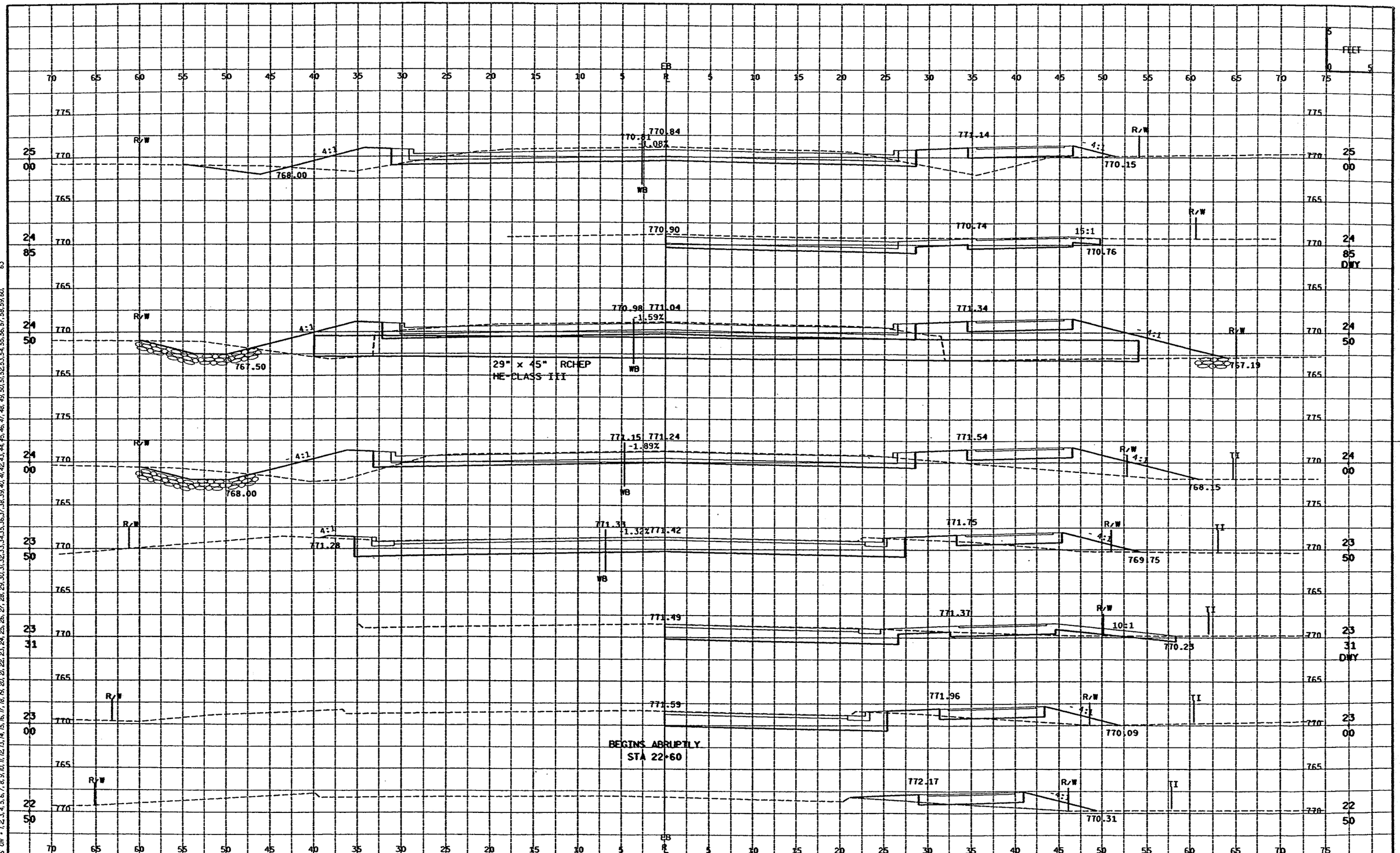
LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,

STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	CROSS SECTIONS:	SHEET NO: 55	E

FILE NAME : f:\transportation\e1510a00\sheets\xsect\xs00.dgn

PLOT DATE: 24 JUL 2001 09:45:34 ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 21



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WISDOT/CADDS SHEET 2

STATE PROJECT NUMBER:

HWY: CTH JJ

COUNTY: WINNEBAGO

CROSS SECTIONS:

SHEET NO: 57. E

FILE NAME : f:\transportation\el510a00\sheets\xsect\xs02.dgn

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WISDOT/CADDS SHEET 21

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;50,51,52,53,54,55,56,57,58,59,60,63

EB & WB

R/W — 4:1 — 771.20 — 771.24 — 771.54 — 4:1 — R/W — TI — 770.69 — 33 00

R/W — 4:1 — 771.20 — 771.44 — 771.74 — 4:1 — R/W — TI — 770.58 — 32 50

R/W — 4:1 — 770.92 — 771.64 — 771.94 — 4:1 — R/W — TI — 770.10 — 32 00

R/W — 1% — 771.23 — 771.68 — 31 89 DWY

R/W — 4:1 — 770.72 — 771.84 — 772.14 — 4:1 — R/W — TI — 769.94 — 31 50

R/W — 4:1 — 770.52 — 772.04 — 772.34 — 4:1 — R/W — TI — 769.76 — 31 00

/// = EBS

R/W — 4:1 — 770.51 — 772.24 — 772.54 — 4:1 — R/W — TI — 769.88 — 30 50

R/W — 4:1 — 770.51 — 772.34 — 772.64 — 4:1 — R/W — TI — 770.19 — 30 00

EB & WB

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

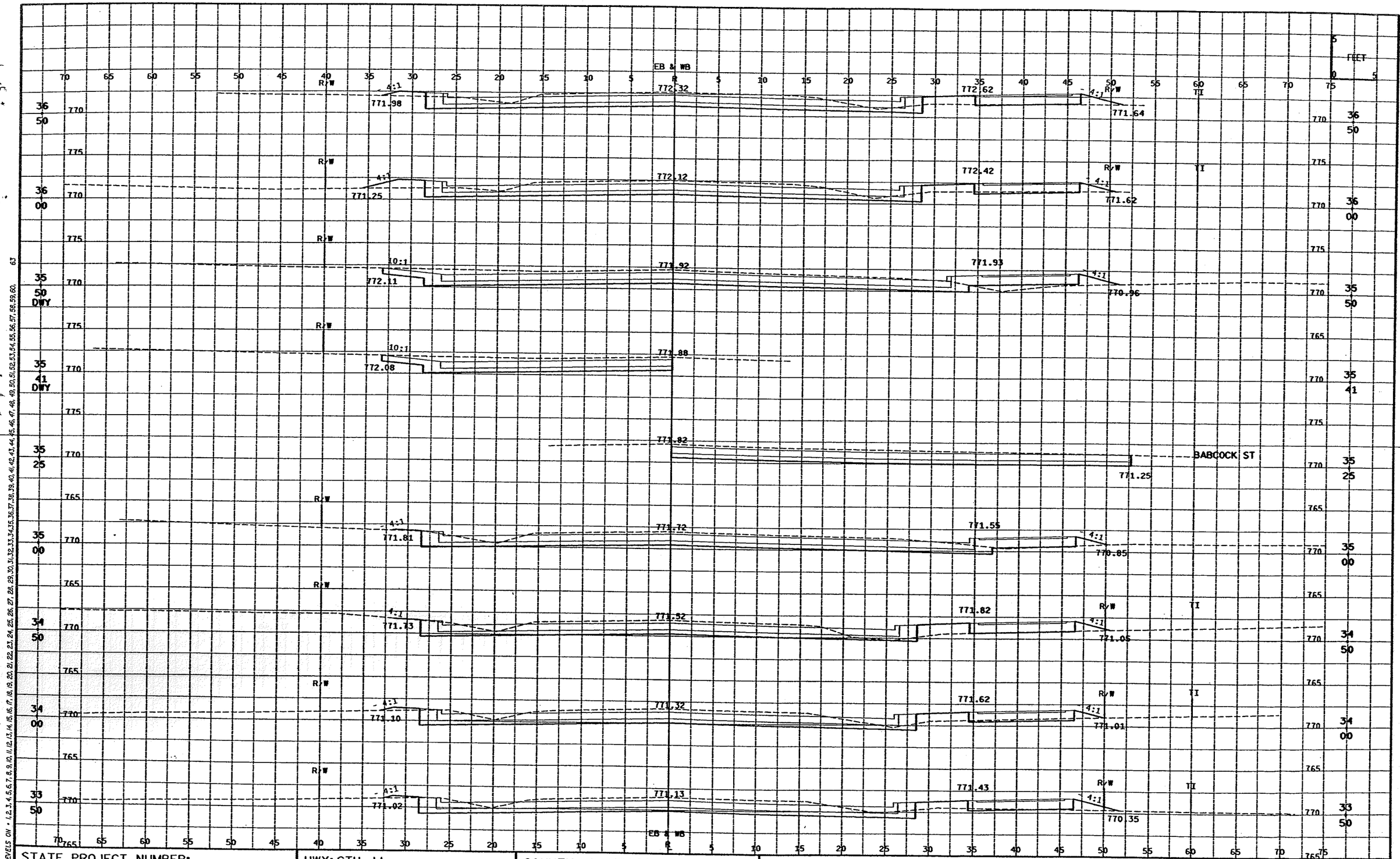
765 770 775

5 FEET 0 5

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

STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	CROSS SECTIONS:	SHEET NO: 58	E

FILE NAME : f:\transportation\e1510a00\sheets\xsect\xs03.dgn PLOT DATE: 13 JUN 2001 09:51:17 ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE : WISDOT/CADDS SHEET 21



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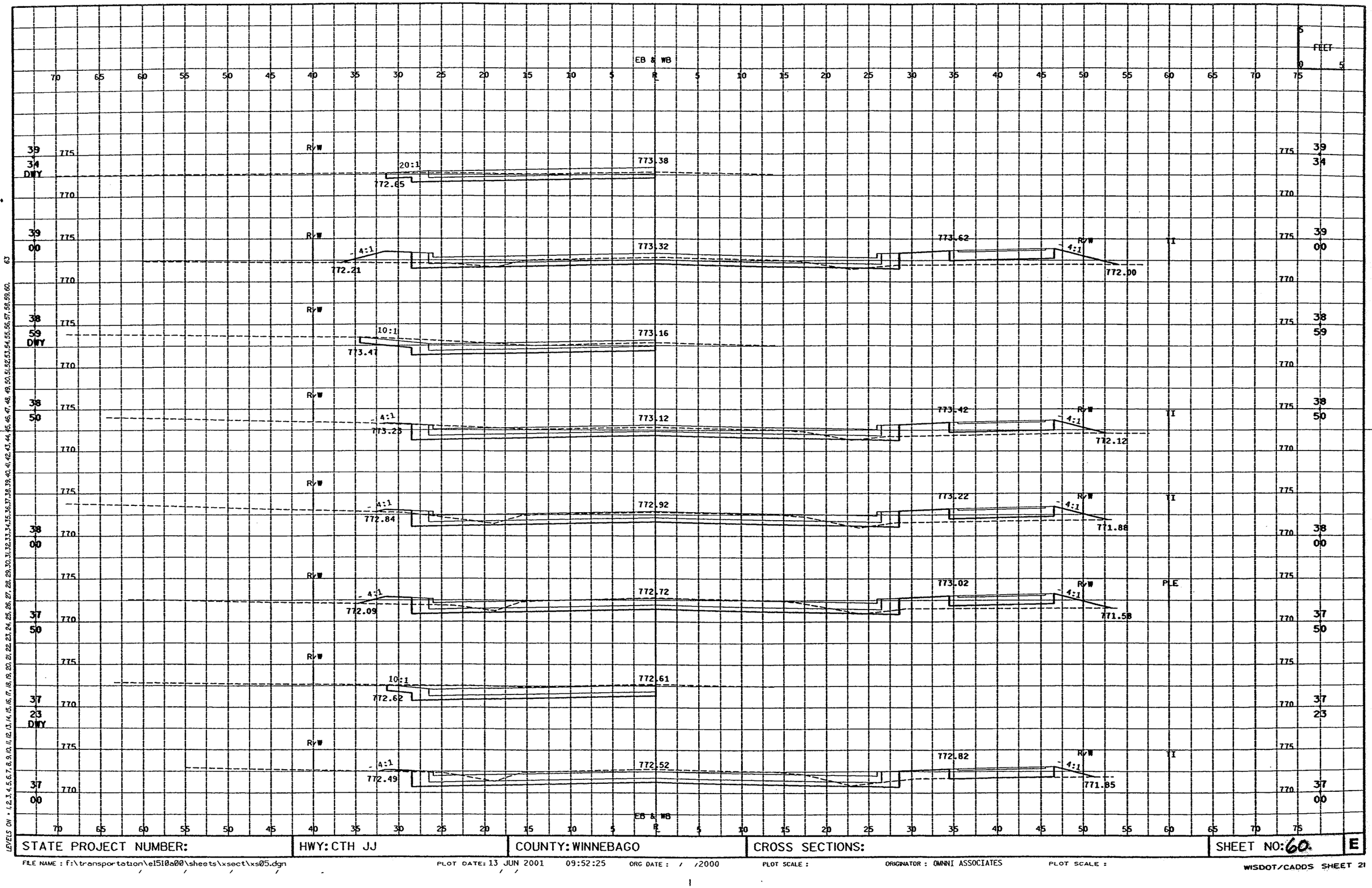
STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	CROSS SECTIONS:	SHEET NO: 59.	E

FILE NAME : f:\transportation\e1510a00\sheets\xsect\xs04.dgn PLOT DATE: 13 JUN 2001 09:51:43 ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 21



STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	CROSS SECTIONS:	SHEET NO: 60.	E

FILE NAME : f:\transportation\e1510a00\sheets\xsect\xs05.dgn PLOT DATE: 13 JUN 2001 09:52:25 ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 21

EB & WB

5 FEET 0 5

70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

42 00 DWY

R/W 11:1 773.36 772.44 772.74 4:1 772.11 R/W TI

41 50

R/W 4:1 773.10 772.64 772.94 4:1 771.90 R/W TI

41 00

TI R/W -0.5% 772.84 773.14 4:1 772.03 R/W TI

40 50

TI R/W -1.5% 773.04 773.34 4:1 772.18 R/W TI

40 13 DWY

TI R/W 10:1 773.42 773.19

40 00

R/W -2% 773.24 773.54 4:1 771.90 R/W TI

39 50

R/W 4:1 772.33 773.38 773.68 4:1 771.85 R/W TI

EB & WB

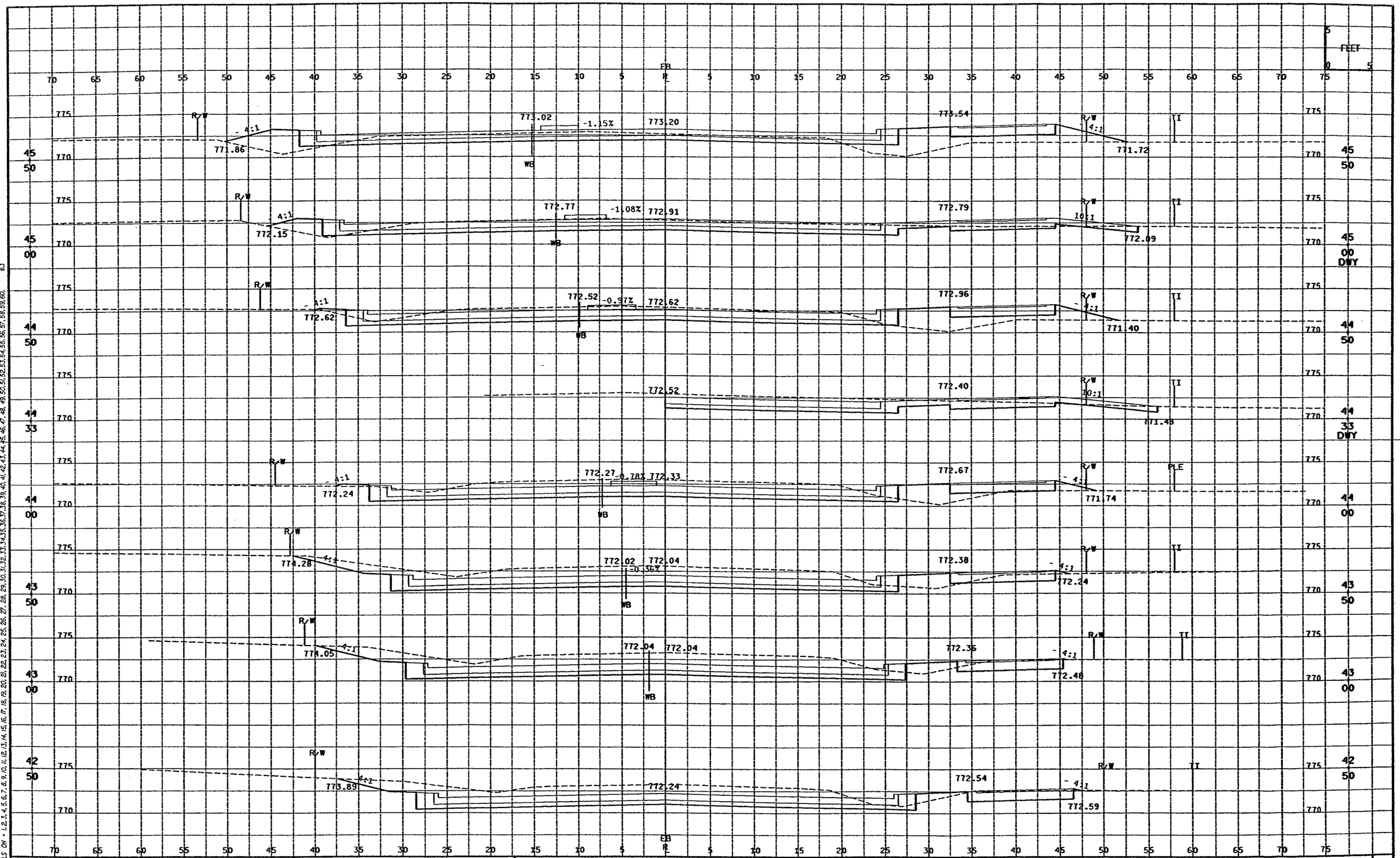
775 770

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: | HWY: CTH JJ | COUNTY: WINNEBAGO | CROSS SECTIONS: | SHEET NO: 61. | E

FILE NAME : f:\transportation\e1510a00\sheets\xsect\xs06.dgn PLOT DATE: 13 JUN 2001 10:06:47 ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 21



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:	HWY: CTH JJ	COUNTY: WINNEBAGO	CROSS SECTIONS:	SHEET NO: 62. E

FILE NAME : f:\transportation\e1510s00\sheets\xsect\xs07.dgn PLOT DATE: 13 JUN 2001 10:07:16 ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 21

70 65 60 55 50 45 40 35 30 25 20 15 10 5 EB 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

5 FEET 0 5

47 50 — 775 — 770 — R/W — 775 — 770 — 47 00

46 66 — 775 — 770 — R/W — 4:1 — 772.16 — 773.60 — -1.57% — 773.85 — WB — 774.19 — R/W — 4:1 — TI — 771.29 — 775 — 770 — 46 66

46 50 — 775 — 770 — R/W — 4:1 — 772.08 — 773.52 — -1.59% — 773.78 — WB — 774.12 — R/W — 4:1 — TI — 771.35 — 775 — 770 — 46 50

46 00 — 775 — 770 — R/W — 4:1 — 771.74 — 773.27 — -1.35% — 773.49 — WB — 773.83 — R/W — 4:1 — TI — 770.97 — 775 — 770 — 46 00

47 50 — 775 — 770 — R/W — 775 — 774.21 — 4:1 — 770.93 — R/W — 775 — 770 — 47 00

ENDS ABRUPTLY
STA 46+93.73

765

70 65 60 55 50 45 40 35 30 25 20 15 10 5 EB 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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

STATE PROJECT NUMBER:	HWY: CTH JJ	COUNTY: WINNEBAGO	CROSS SECTIONS:	SHEET NO: 63.	E

FILE NAME : f:\transportation\el510a00\sheets\xsect\xs08.dgn PLOT DATE: 13 JUN 2001 10:07:41 ORG DATE : / /2000 PLOT SCALE : ORIGINATOR : OMNNI ASSOCIATES PLOT SCALE :

WISDOT/CADDS SHEET 2