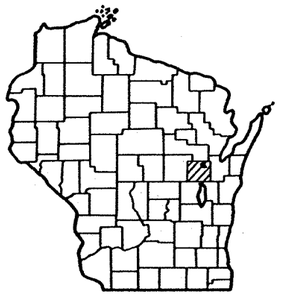
STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6007 - 1 - 73	RS 1360(4)	2
6007 - 1 - 74	RS 1360(4)	1

Index of Sheets

TOTAL SHEETS = 48



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

S.T.H. 47 – SEYMOUR

AS BUILT PLAN

FRENCH RD - SEYMOUR

NO.

C.T.H. "G"

OUTAGAMIE COUNTY

SUPERVISOR Agris Rozite

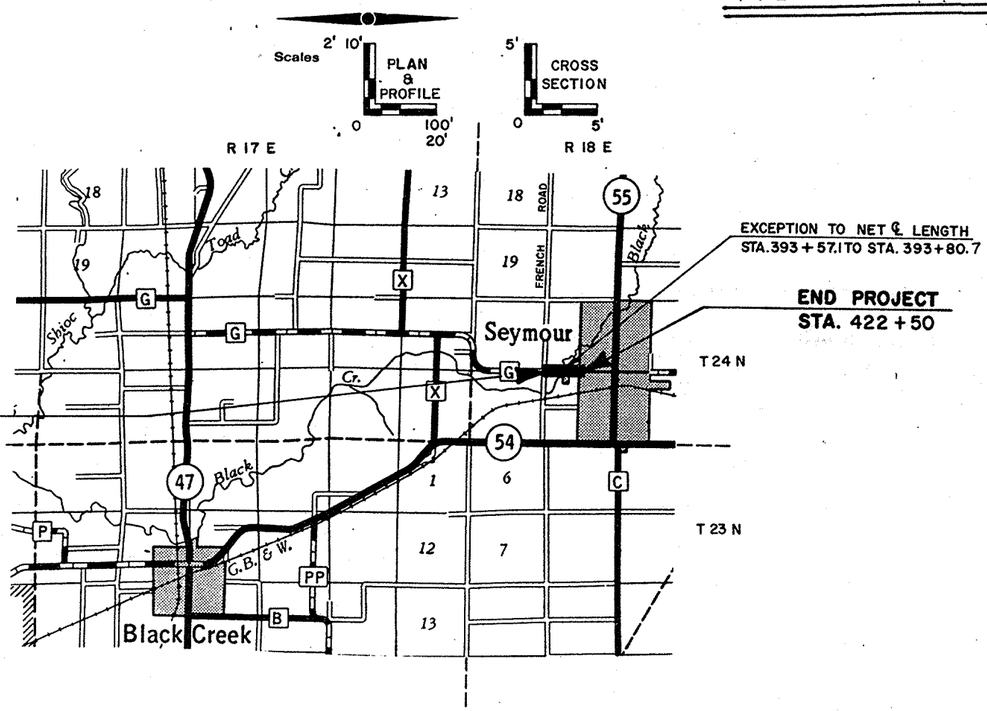
RESIDENT Bill Wegner

CONTRACTOR Murphy Constructions Co.

COMPLETED August 22, 1989

"AS BUILT"

STATE PROJECT NUMBER
6007-1- 74



N

EXCEPTION TO NET ℄ LENGTH
STA. 393 + 57.1 TO STA. 393 + 80.7

END PROJECT
STA. 422 + 50

BEGIN PROJECT
STA. 380 + 00
X = 2,430,400 (±200) *
Y. = 253,000 (±200) *

* COORDINATES SCALED FROM U.S.G.S. TOPOGRAPHIC MAP SEYMOUR, 7.5 MINUTE, WISCONSIN, QUADRANGLE FOR IDENTIFICATION ONLY.

Design Designation

		AT C.T.H. "X"
A.D.T. 1986	=	1210
A.D.T. 2006	=	2180
D.H.V.	=	330
D.	=	60/40
T.	=	8 %
V.	=	50 M.P.H.

Conventional Signs

County Line		Caution Symbol (Combustible fluids under pressure)	CAUTION
Township or Range Line		Railroads	
Section Line		Fence	(TYPE)
Corporate or City Limits		Culverts in Place	
Property line		Culverts Required	
Lot Line		Power Pole	
Existing Right of Way Line		Telephone or Telegraph Pole	
New Right of Way Line		Right of Way Markers	
Base or Survey Line		Marsh	MARSH
Slope Intercept		Wooded Area	
Existing Roadway or Private Entrance		Grade Elevation	

Layout

Scale 0 1 2 Mi.

Total Net Length of Centerline = 0.800 Mi. RURAL

APPROVED FOR
OUTAGAMIE COUNTY
BY
8-5-85 (Date) (Signature of Official)

ORIGINAL
PLANS PREPARED BY

Foth & Van Dyke
Engineering/Architectural Division

2737 S. Ridge Road
P. O. Box 19012
Green Bay, WI 54307-9012
414/497-2500

WISCONSIN
RICHARD A. MARTENS, JR.
E-22403
SHAWANO
WIS.
PROFESSIONAL ENGINEER
7/26/85

G-16

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Surveyor F.&V.D. District Checker
Designer F. & V.D. C. O. Checker
District Supervisor J.E.F. C.O. Coordinator

Approved:
Date 10/2/85 District Transportation Director

Approved:
Date 11/3/88 for STATE DESIGN ENGINEER FOR HIGHWAYS

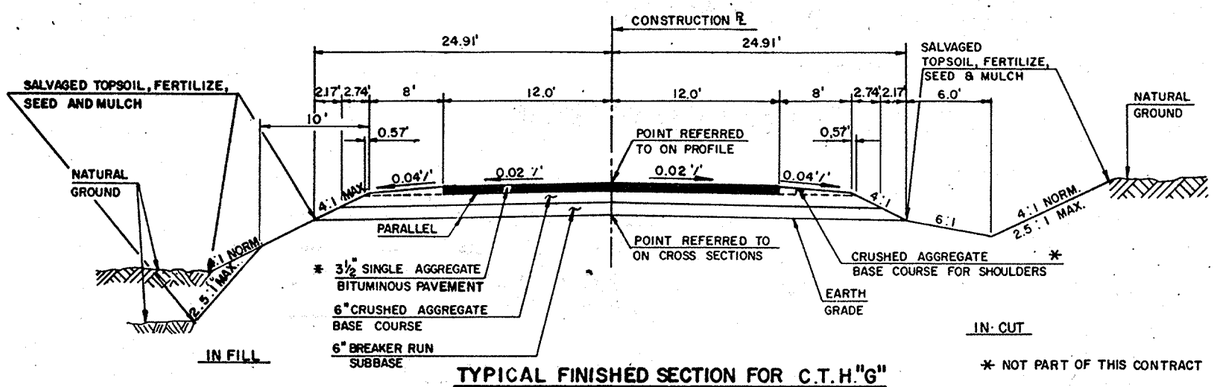
U.S DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
REGION 5 WISCONSIN DIVISION

Approved:
Date Division Administrator

G-16

Cat. No. 2130 – 0110

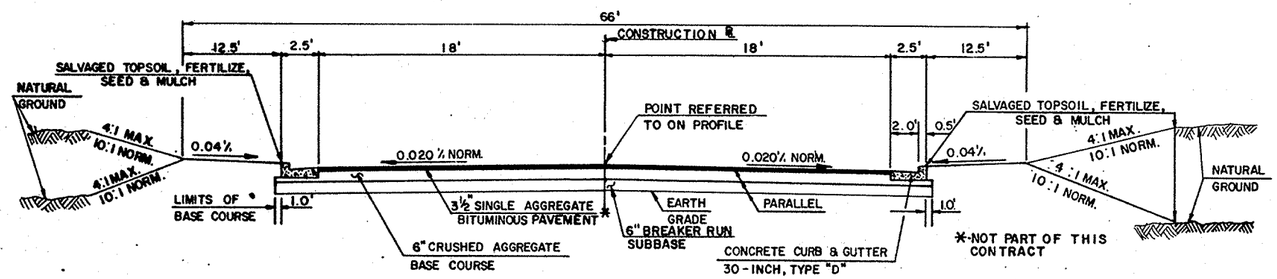
STATE PROJECT NUMBER	SHEET NO.
6007-1-73/74	2
TYPICAL SECTIONS, GENERAL NOTES, STANDARD DETAIL DRAWINGS AND UTILITIES FOR C.T.H "G"	OUTAGAMIE CO.



* NOT PART OF THIS CONTRACT

TYPICAL FINISHED SECTION FOR C.T.H."G"

STA. 380+00 - 398+60 LT.
STA. 380+00 - 408+80 RT.



* NOT PART OF THIS CONTRACT

TYPICAL SECTION FOR C.T.H. "G"

STA. 411+55 - 421+47 LT.
STA. 408+80 - 422+50 RT.

STANDARD DETAIL DRAWINGS

CONCRETE CURB, CONCRETE CURB AND GUTTER AND PAVEMENT TIES	8D1 - 11
CURB RAMPS	8D5 - 8
EROSION MAT	8E7 - 1
TYPICAL INSTALLATIONS OF EROSION BALES	8E8 - 1
SILT FENCE	8E9 - 3
APRON ENDWALLS FOR CULVERT PIPE	8F1 - 10a
AT-GRADE SIDE ROAD INTERSECTIONS, TYPES "B" AND "C"	9A1 - 7a
MANHOLES, TYPE I	8B6 - 3
INLETS, TYPE 1, 2 & 3	8C1 - 4
MANHOLE AND INLET COVERS	8A5 - 6a & c
CONSTRUCTION BARRICADES AND STANDARD SIGNS	15C1 - 7
TRAFFIC CONTROL FOR TEMPORARY ROAD CLOSURES IN RURAL AREAS (HIGHWAY UNDER CONSTRUCTION CLOSED TO TRAFFIC)	15C3 - 1

UTILITIES

WISCONSIN ELECTRIC POWER COMPANY	TELEPHONE 1-414-735-8445
100 WEST LAWRENCE STREET	
APPLETON, WISCONSIN 54911	
ATTENTION: MR. N. P. SCHEMM	
DIGGERS HOTLINE	TELEPHONE 1-800-242-8511
GENERAL TELEPHONE COMPANY OF WISCONSIN	TELEPHONE 1-414-793-4549
3203 LNCOLN AVENUE	
TWO RIVERS, WISCONSIN 54241	
ATTENTION: MR. R. J. DUCKETT, SUPERVISOR-NETWORK FACILITIES	
DIGGERS HOTLINE	TELEPHONE 1-800-242-8511 TOLL FREE
WISCONSIN GAS COMPANY	TELEPHONE 1-715-432-2800
1921 SOUTH 8th STREET	
P.O. BOX 789	
WISCONSIM RAPIDS, WISCONSIN 54494	
ATTENTION: MR. DEAN SULLIVAN	
DEPARTMENT OF PUBLIC WORKS	TELEPHONE 1-414-833-2397
800 WEST PEARL STREET	
SEYMOUR, WISCONSIN 654165	
ATTENTION: MR. EARL GOSSE	

GENERAL NOTES

THE LOCATION 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.

THE UTILITIES SHALL ADJUST THEIR FACILITIES TO FIT THE NEW HIGHWAY CONSTRUCTION.

INLET AND DISCHARGE ELEVATIONS SHOWN ON THE PLAN SHEETS ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. EXACT LOCATION OF THE MAINLINE, SIDE ROAD, PRIVATE AND FIELD ENTRANCE CULVERT PIPES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

CUBIC YARDS OF FILL AS SHOWN ON THE PLAN SHEETS PERTAINS TO EMBANKMENT CONSTRUCTED FROM UNCLASSIFIED EXCAVATION. THE VOLUME OF THE FILL WAS EXPANDED BY 33% TO 43% TO DETERMINE THE AMOUNT OF MATERIAL NECESSARY TO COMPLETE THE EMBANKMENT.

WHEN THE QUANTITY OF THE ITEM OF BASE COURSE OR SUBBASE COURSE IS MEASURED BY THE TON, THE DEPTH OF THICKNESS AS SHOWN ON THE PLAN IS APPROXIMATE. THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

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

SEED MIXTURE SHALL BE NO. 4 IN CURB AND GUTTER AREAS, NO.2 IN RURAL AREAS.

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

CURB HEIGHTS AT THE END OF CURB AND GUTTER SHALL BE TAPERED FROM 2 INCHES TO 6 INCHES IN 5 FEET.

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

FINAL MARKING AND SIGNING TO BE DONE BY OUTAGAMIE COUNTY.

THE EXACT LOCATION AND LIMITS OF THE SILT FENCE SHALL BE AS DIRECTED BY THE ENGINEER.

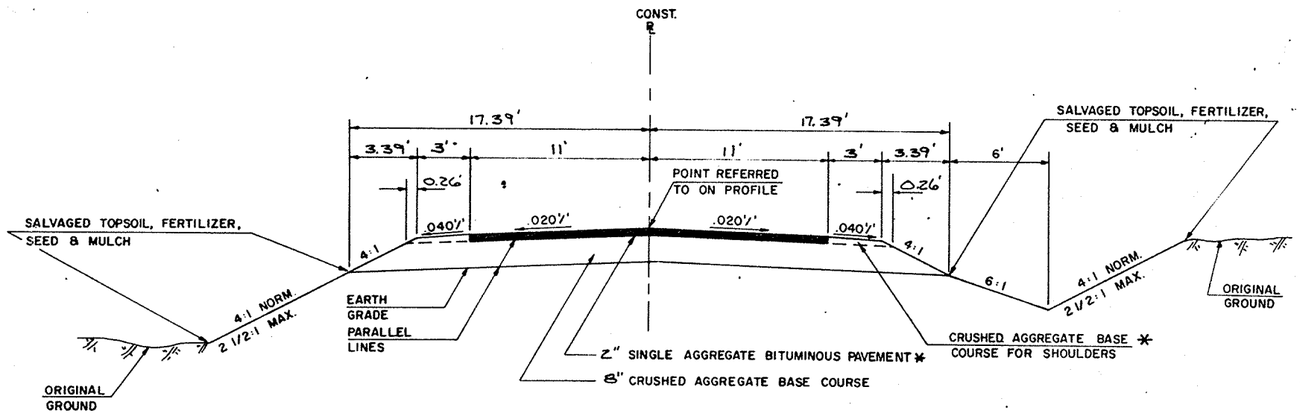
SILT FENCE SHALL MEET THE MATERIAL SPECIFICATIONS FOR SANDY SOIL.

CONSTR. PERMITS FOR P.E. CONSTRUCTION HAVE BEEN OBTAINED, WHICH RIGHTS SHALL BE EXTENDED TO THE CONTRACTORS.

COUNTY SURVEYOR OR SURVEYS CONTACT PERSON

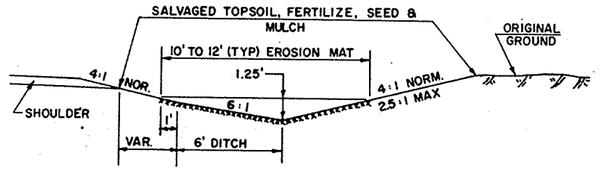
FRANK CHARLESWORTH, JR. — OUTAGAMIE CO.
ZONING ADMINISTRATOR
410 SOUTH WALNUT STREET
APPLETON, WISCONSIN 54166
PHONE: 414 — 735 - 5255

STATE PROJECT NUMBER	SHEET NO.
6007-1-73/74	2.1
DETAILS	
C.T.H. "G"	OUTAGAMIE CO.

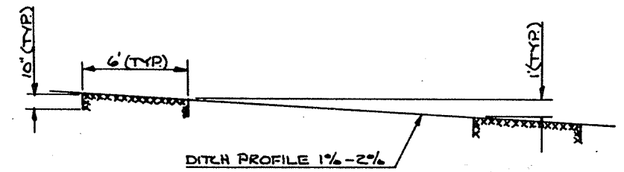


* NOT PART OF THIS CONTRACT

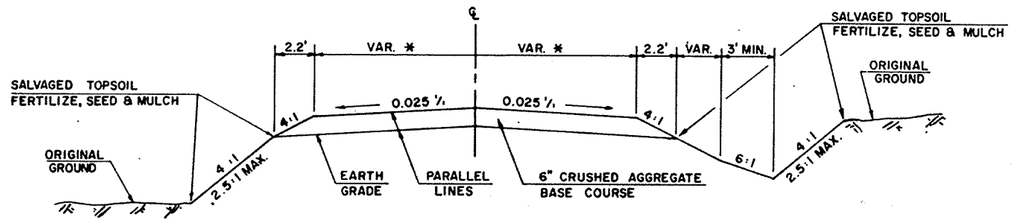
TYPICAL FINISHED SECTION
SIDE ROADS



TYPICAL INSTALLATION FOR EROSION MAT

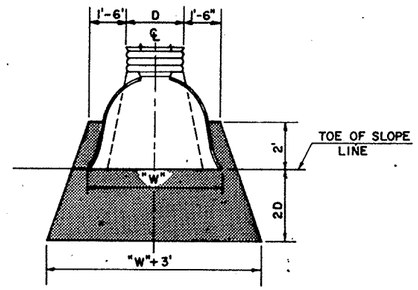


EROSION MAT DITCH CHECKS



* 1/2 EXIST. WIDTH (8' MIN. FOR P.E., 10' MIN. FOR F.E.)

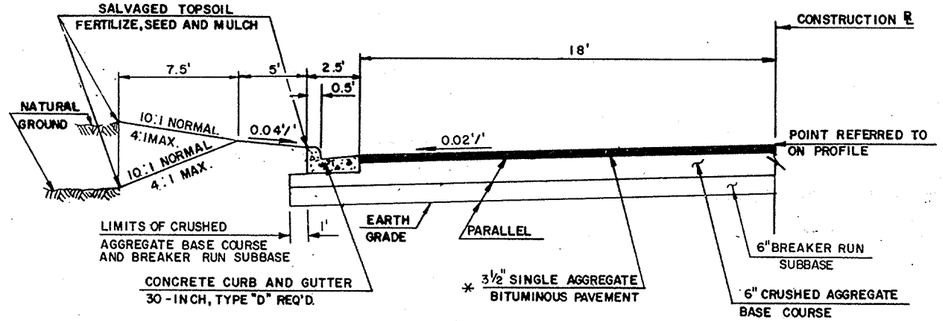
TYPICAL CROSS SECTION FOR PRIVATE & FIELD ENTRANCES



PLACE SOD AS SHOWN OR AS DIRECTED BY THE ENGINEER IN THE FIELD.

SOD AT PIPE END
CONCRETE OR METAL

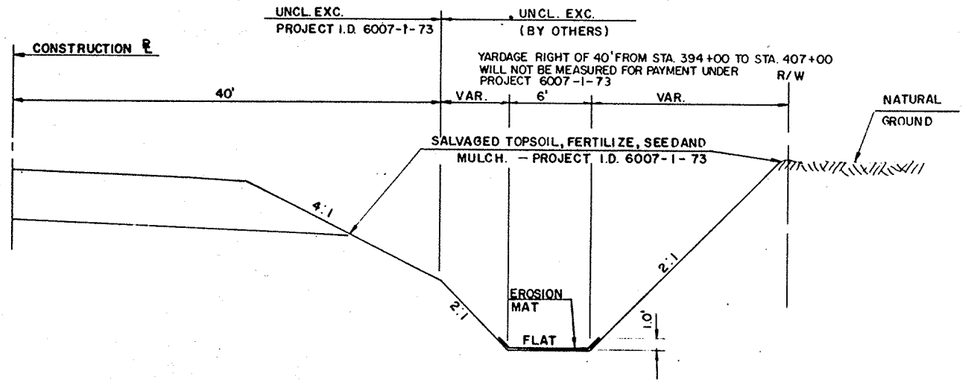
STATE PROJECT NUMBER	SHEET NO.
6007-1-73/74	2.2
CONSTRUCTION DETAILS FOR C.T.H. "G" OUTAGAMIE CO.	



* NOT PART OF THIS CONTRACT

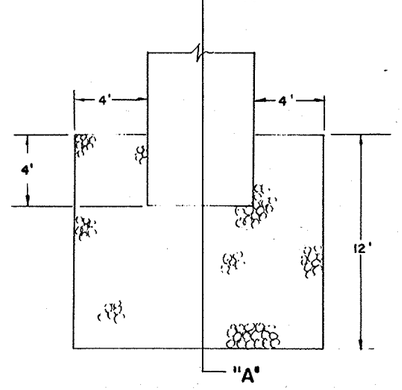
1/2 TYPICAL SECTION FOR C.T.H. "G"

STA. 398 + 60.00 TO STA. 411+55.00LT.



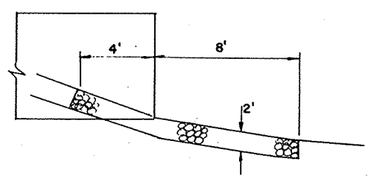
TYPICAL HALF SECTION

STA. 394+00 TO. 407+35 RT.



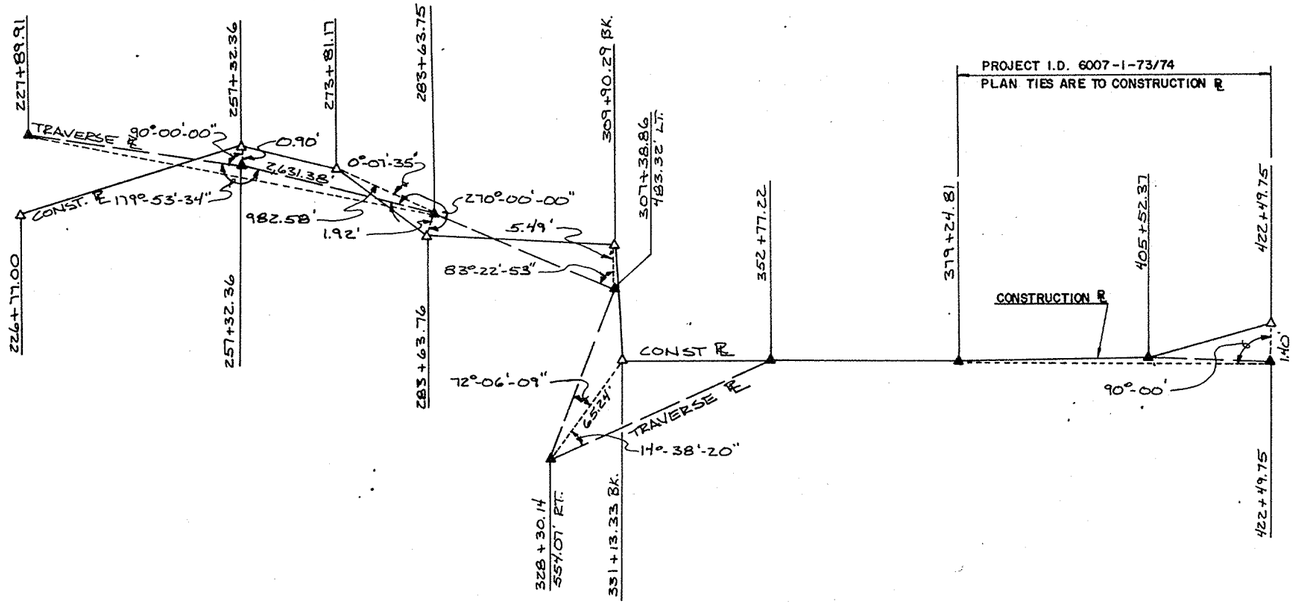
MEDIUM RANDOM RIPRAP AT END OF PIPE

(72" METAL)
INLET AND DISCHARGE

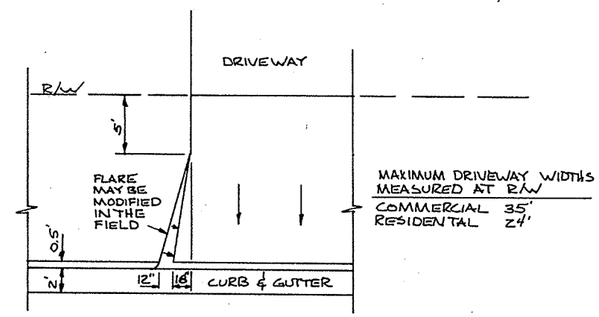


SECTION "A" - "A"

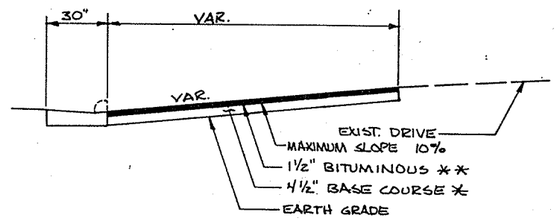
STATE PROJECT NUMBER	SHEET NO.
6007-1-73/74	23
DETAILS	
C.T.H. "G"	OUTAGAMIE CO.



ALIGNMENT DIAGRAM
NOT TO SCALE



TYPICAL DRIVEWAY ENTRANCE
PLAN
URBAN SECTION



* BASE COURSE = 6" FOR GRAVEL DRIVES

TYPICAL DRIVEWAY ENTRANCE
PROFILE
URBAN SECTION ** NOT PART OF THIS CONTRACT

DATE 01/05/89

ESTIMATE OF QUANTITIES

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6007-01-74 QUANTITY
52260	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 12-INCH	EACH	1.00	1.00
60133	CONCRETE CURB AND GUTTER, 30-INCH, TYPE D	L.F.	3,635.00	3,635.00
60825	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 12-INCH	L.F.	273.00	273.00
61110	MANHOLES, TYPE 1	EACH	1.00	1.00
61121	INLETS, TYPE 1	EACH	3.00	3.00
61122	INLETS, TYPE 3	EACH	6.00	6.00
61151	MANHOLE COVERS, TYPE J	EACH	1.00	1.00
61161	INLET COVERS, TYPE A	EACH	3.00	3.00
61167	INLET COVERS, TYPE H	EACH	6.00	6.00
61182	ADJUSTING MANHOLE COVERS	EACH	4.00	4.00
61910	MOBILIZATION	L.S.	1.00	1.00
90001	PRODUCING AND HAULING BREAKER RUN SUBBASE COURSE	TON	7,100.00	7,100.00
90002	PRODUCING AND HAULING CRUSHED AGGREGATE BASE COURSE	TON	7,700.00	7,700.00

SHEET 5

STATE PROJECT NUMBER	SHEET NO.
6007-1-74	3A

MISCELLANEOUS QUANTITIES
FOR

C.T.H. "G" OUTAGAMIE CO.

INLETS, MANHOLES, AND COVERS 6007-1-74

STRUCTURE NUMBER	LOCATION	DISTANCE LT./RT.	STRUCTURE	TYPE	COVER	GRATE	EDGE OF PAVEMENT ELEV.	FLOWLINE ELEVATION	DEPTH (FEET)	REMARKS
1	401+50	20.5'LT.	INLET	1	A	LT.	780.27	704.09	5.1	
3	420+43	20.5'LT.	INLET	3	H	LT.	783.32	778.32	4.0	
5	420+60	20.5'RT.	INLET	3	H	RT.	783.37	778.57	4.8	
6	420+43	24'RT.	MANHOLE	1	J	---	783.70	777.80	4.7	CONSTRUCT OVER EXISTING STORM SEWER
7	415+60	20.5'LT.	INLET	3	H	LT.	781.85	777.95	2.9	
8	415+60	20.5'RT.	INLET	3	H	RT.	781.85	777.55	3.3	
10	412+46	20.5'LT.	INLET	1	A	LT.	780.90	776.92	2.9	
12	410+60	20.5'LT.	INLET	3	H	LT.	780.34	776.54	2.8	
13	410+60	20.5'RT.	INLET	3	H	RT.	780.34	776.14	3.2	
15	408+80	20.5'LT.	INLET	1	A	RT.	781.24	776.16	4.0	

PRODUCING AND HAULING CRUSHED AGGREGATE BASE COURSE AND BREAKER RUNSUBBASE COURSE (6007-1-74)

STORM SEWER 6007-1-74

LOCATION FROM	TO	SIZE INCH	LENGTH FEET	TYPE	CLASS	ELEVATION INLET	ELEVATION DISCHARGE	REMARKS
1	2	12"	80	R.C.P.	III	774.09	772.50	1-12" R.C. ENDWALL REQ'D.
3	4	12"	10	R.C.P.	III	778.32	778.20	
5	6	12"	15	R.C.P.	III	778.57	778.13	
7	8	12"	36	R.C.P.	III	777.95	777.55	
8	9	12"	4	R.C.P.	III	777.55	777.50	*
10	11	12"	44	R.C.P.	III	776.92	776.48	*
12	13	12"	36	R.C.P.	III	776.54	776.14	
13	14	12"	4	R.C.P.	III	776.14	776.00	*
15	16	12"	44	R.C.P.	III	776.16	775.72	*

*-CONNECT TO EXISTING STORM SEWER LEAD

ADJUSTING MANHOLE COVERS 6007-1-74

LOCATION	TYPE	EACH	
394+00± L	SANITARY	1	*
398+00± L	SANITARY	1	*
402+00± L	SANITARY	1	*
405+25, 16' LEFT	SANITARY	1	*
406+94, CENTERLINE	SANITARY	1	*
406+94, 16' LEFT	SANITARY	1	*
406+94, 44' RIGHT	SANITARY	1	*
407+76, 16' LEFT	SANITARY	1	*
408+80, 24' RIGHT	STORM	1	
410+24, CENTERLINE	SANITARY	1	*
410+60, 24' RIGHT	STORM	1	
412+01, 16' LEFT	SANITARY	1	*
412+46, 24' RIGHT	SANITARY	1	*
414+08, CENTERLINE	SANITARY	1	*
415+60, 24' RIGHT	STORM	1	
415+78, 16' LEFT	SANITARY	1	*
418+10, CENTERLINE	SANITARY	1	*
420+25, 12' LEFT	SANITARY	1	*
420+44, 7' LEFT	STORM	1	

* BY OTHERS

CONCRETE GURB AND GUTTER 30-INCH,TYPE "D" 6007-1-74

LOCATION	LIN. FT.
398+60 - 421+47 LEFT	2,272
408+80 - 422+50 RIGHT	1,363

REVISION DATE	ROUTE	COUNTY	DATE	R/W PROJECT NUMBER	SHEET NUMBER
	C.T.H. "G"	OUTAGAMIE		6007-1-00	4.13
	SCALE, FT. 0 100 200			FEDERAL PROJECT NUMBER 6007-1-73,74 4	

N

TOWN

SW-SW
29-24-18

SE-SW
29-24-18

FRENCH ROAD

N 1°-55'-29" E

P.I. STA. 379+24.81 C.T.H."G"
STA. 75+00 FRENCH RD.
Δ = 179°-58'-35"

N 0°-55'-29" E

+18.15

+26.50

+83.6

+00 50

OF

PROPOSED R/W LINE

N 85°-36'-41" E
200.56'

+00 65'

773.45'

400.00'

N 89°-54'-02" E

N 88°-40'-03" W 800.25'

S 88°-28'-06" W 400.12'

460.00'

672.39'

752.35'

+52.38

P.I. STA. 405+52.37
Δ = 180°-01'-45"

SLOPE INTERCEPT

+60

CREEK

ABANDONED WASTE-
WATER TREATMENT FACILITY

+50 85'

+00 85'

GENERAL TELEPHONE CO. EASEMENT

+00 50'

+00 75'

BLACK

1/16 LINE

1/4 LINE

C.T.H. "G"

EXIST R/W LINE

NW-NW
32-24-18

SEYMOUR

NE-NW
32-24-18

P.K. NAIL
STA. 379+24.81, ℄

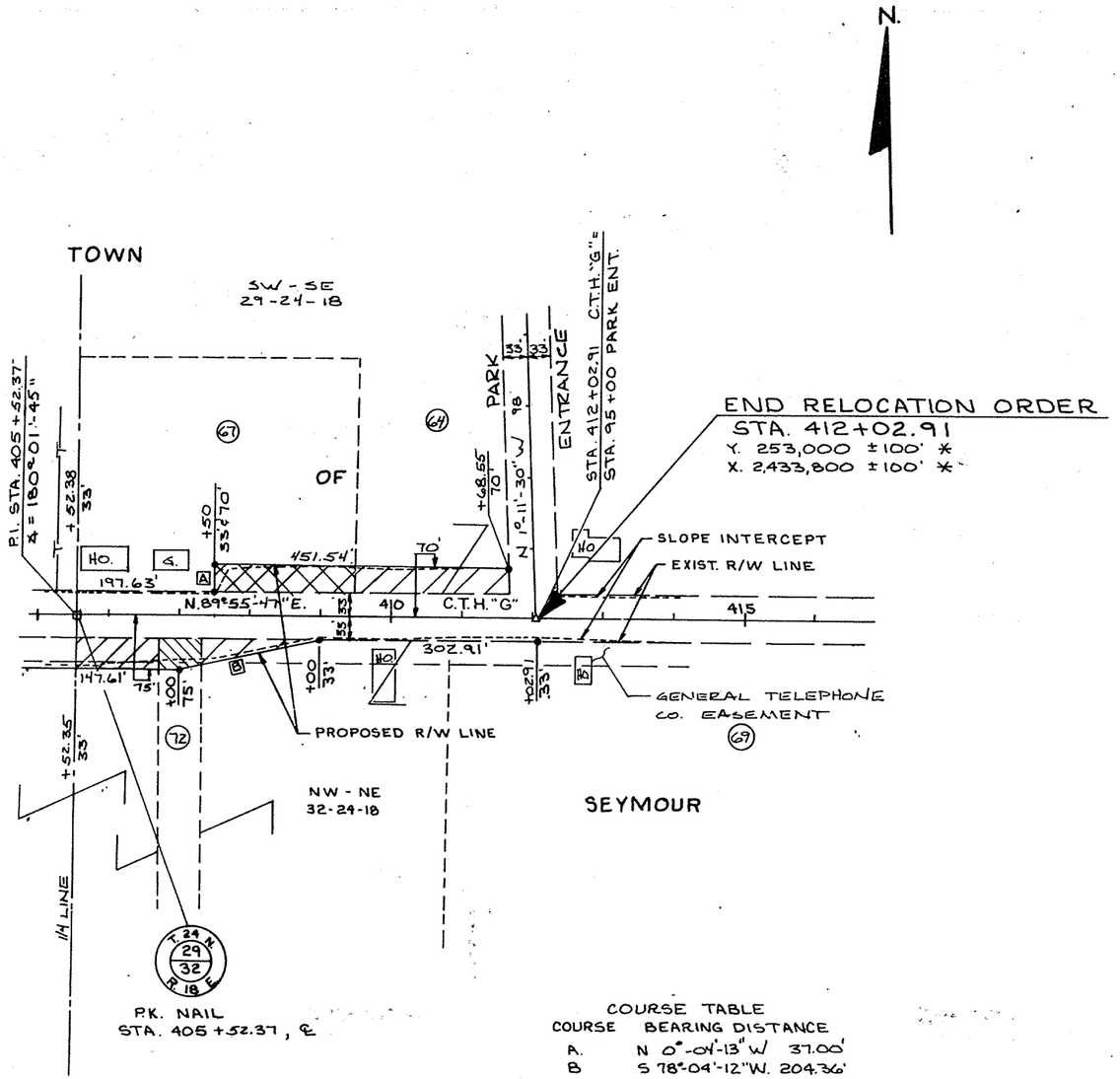
P.K. NAIL
STA. 405+52.37, ℄

COURSE TABLE

COURSE	BEARING	DISTANCE
A	S 44°-05'-15" E	138.86'
B	S 0°-05'-58" E	15.00'
C	S 0°-05'-58" E	17.00'
D	N 73°-24'-01" W	52.20'
E	S 45°-24'-46" W	142.67'

Cat. No. 2130-0176

REVISION DATE	ROUTE	COUNTY	DATE	R/W PROJECT NUMBER	SHEET NUMBER
	C.T.H. "G"	OUTAGAMIE		6007-1-00	4.14
	SCALE, FT. 0 100 200			FEDERAL PROJECT NUMBER	
				6007-1-73,74 4.1	



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 NO	SHEET NO	OWNER	INTEREST REQUIRED	TOTAL ACRES	R/W ACRES REQ'D NEW	EXIST.	TOTAL	TOTAL LI.E. ACRES REM.	LI.E. ACRES TEMP
61	4.13	ELAINE A. COURET	FEE	80.00	0.67	1.08	1.75	78.25	
62	4.13	EARL & MARCELLA COURET	FEE	40.00	0.72	1.09	1.81	38.19	
63	4.13	DAVID PFOTTER	FEE	2.00	0.24	0.00	0.24	1.76	
64	4.13-4.14	KARL & SHIRLEY MUENSTER	FEE	58.32	1.45	1.57	3.02	55.30	
65									
66	4.13	CARL L. & BETTE B. ISE	FEE	25.00	0.29	0.61	0.90	24.10	
67	4.14	DANIEL G. & DONNA M. SCHMIDT	FEE	3.00	0.17	0.30	0.47	2.53	
68	4.3	WISCONSIN ELECTRIC POWER COMPANY	FEE	1.00	0.05	—	0.05	0.95	
69	4.3-4.14	GENERAL TELEPHONE COMPANY	RELEASE OF RIGHTS						
70									
71	4.10 4.11, 4.13	WISCONSIN ELECTRIC POWER COMPANY	RELEASE OF RIGHTS						
72	4.14	CITY OF SEYMOUR	FEE	0.90	0.06	0.04	0.10	0.80	

COURSE TABLE

COURSE	BEARING	DISTANCE
A.	N 0°-04'-13" W	37.00'
B	S 78°-04'-12" W.	204.36'

* COORDINATES SCALED FROM U.S.G.S. TOPOGRAPHIC MAP SEYMOUR, 7.5 MIN. SERIES, WISCONSIN, QUADRANGLE FOR IDENTIFICATION ONLY

STATE PROJECT NUMBER	SHEET NO.
6007-1-73/74	5

ZA	PAINTED X SE COR. BRIDGE DECK	780.08
3	TOP OF N. END OF CULVERT IN NW. COR. INTER. FRENCH RD. & "G"	776.92

NOTE: INSTALL EROSION BALES ON INSIDE OF SILT FENCE AROUND STRUCTURE AT CRITICAL LOCATIONS.

N.

STA. 379+24.81 C.T.H. "G" = STA. 75+00 FRENCH ROAD
TYPE C INTERSECTION REQ'D

PROJECT LIMITS 73+00

CONCRETE CURB & GUTTER 30" TYPE D REQ'D

PROJECT LIMITS 74+20

PI STA 379+24.81
AZ = 179°-58'-41"

FRENCH ROAD

BEGIN PROJECT STA. 380+00.00

STA 379+24.81 R

N

FRENCH ROAD

P.K.

C.T.H. "G"

EXCEPTION TO NET CENTERLINE LENGTH
STA. 393+57.1 TO STA. 393+80.7

BURNSTEIN MON. (TYP)

R/W LINE

C.T.H. "G"

STEEL PLATE BEAM GUARD CLASS A

SILT FENCE REQ'D.

CAUTION GAS LINE APPROX. LOC.

EROSION MAT

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

EXIST 72" C.M.P. (TO REMAIN)

CONCRETE SURFACE DRAIN REQ'D. 1 CU.YD. (BY OTHERS)

TYPE I ANCHORAGE REQ'D (BY OTHERS)

EROSION BALES REQ'D

EXISTING 12" SAN. SEWER

* MANHOLE ADJUSTMENT BY OTHERS.

UNCL. EXC. = 10,410 CU. YD.
FILL = 7,779 CU. YD.

USE 175 CU. YD. UNCL. EXC. FROM TREATMENT PLANT ROAD

VPI 374+00 780.80

-0.50%

+0.5%

ULTIMATE PROFILE

VPI 377+75 778.90

STA. 379+00 60'-36" C.P. REQ'D. F.L. LT. 773.11 F.L. RT. 773.30

STA. 379+55 60'-36" C.P. REQ'D. F.L. LT. 773.38 F.L. RT. 773.09

P.I. 400 778.54

+0.52%

+0.25% D.G. LT.

+0.2% D.G. RT.

TEMPORARY CONNECTION PROFILE

779.32

PROPOSED & GRADE
EXIST. & PROFILE

+0.044%
+0.151%

-0.05% D.G. LT. & RT.

VPI 394+00 779.85

-0.149%
-0.493%

+0.50%

D.G. LT. + 0.5%

+0.25% D.G. RT.

EXISTING CULVERT 10'x8' BOX

VPI 398+50 779.13

790
780
770

780.80 780.29 779.79 779.28 778.94 779.09 779.24 779.87 779.54 779.69 779.84 779.99 780.14 780.29 780.45 780.60 780.75 780.90 781.05 781.20 781.35 780.86 780.36 779.87 779.38 779.38 779.88 780.38 780.88 781.38

4 375 6 7 8 9 380 1 2 3 4 385 6 7 8 9 390 1 2 3 4 395 6 7 8 9 400 1 2 3 4 5

Cat No. 2130 - 0142
S.D.

STATE PROJECT NUMBER	SHEET NO.
6007-1-73/74	5.1

2	TOP OF N SIDE OF M.H. RIM STA. 405+25 ± 15' LT.	782.96

STA. 405+00 C.T.H. "G"
STA. 85+00 TREATMENT PLANT ROAD

SAW CUT REQ'D.

CAUTION — GAS LINE APPROX. LOC.

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

25' R — 25' R — 18' — 18' — 782.68 — 782.68

12" STORM (EXISTING) (TO REMAIN)

P.I. STA. 405+52.37
AZ. = 180°-01'-45"

CRUSHED AGG SURFACE REQ'D.

SILT FENCE REQ'D.

EXIST R/W — 33'

G — G — G — G — G — G — G

18.81

91°-15' 12" STORM (EXIST.) (TO REMAIN)

M.H. 181.89 (ADJ.-BY OTHERS)

18" SAN. (EXIST.)

M.H. (ADJ.-BY OTHERS)

M.H. (ADJ.-BY OTHERS)

M.H. (ADJ.-BY OTHERS)

403

12" SAN. (EXISTING)

405

C.T.H. "G" CONST. PR. 1

12" SAN (EXISTING)

CURB CUTS REQ'D FOR FUTURE TYPE 2 RAMPS

8" WATER (EXIST.)

W — W — W — W — W — W — W

EDGE OF PAVEMENT 1

EDGE OF SHOULDER 1

T — T — T — T — T — T — T — T — T

3/4" ROD-1.1' EAST OF R/W POST

P.K. IN P.P. 55-610

54.94'

C.T.H. G

SPIKE BEHIND R/W POST

STA. 405+52.37 R

AREA DRAINS (TO REMAIN)

M.H. (ADJ.)

18" STORM (EXISTING)

MEDIUM RANDOM RIP RAP

18" STORM (EXIST.)

15 — 16

20' — 20' — +80

75

N

SEE PREVIOUS SHEET

UNCL. EX. 175 CY +22
FILL 0 CY
HAUL OUT 175 CY TO STA. 320+00 TO 412+81

PROPOSED ℄ GRADE
EXIST. ℄ PROFILE

VPI +75 — 784.72
VPI +90
VPT +70 — 784.55
VPI +60 — 783.56
VPT +20 — 782.20
-2.0% — +4.0% — 30' V.C.

784 — 782 — 780

85 — TREATMENT PLANT ROAD — 86

VPI 405+00 — 782.38

EXIST. ℄ PROFILE
PROPOSED ℄ GRADE

-0.30 %

SAME POINT

+0.5 %

1.0% D.G. RT.

0.25% D.G. RT.

0.25% D.G. LT.

STA. 407+55
78-12" C.P. LN. PLACE (TO REMAIN)

784 — 782 — 780 — 778 — 772 — 770 — 768

781.38 — 781.63 — 781.88 — 782.13 — 782.38 — 782.23 — 782.08 — 781.93 — 781.78 — 781.63 — 781.48 — 781.33

403 — 404 — 405 — 406 — 407 — 408 — 409

5.1

Cat. No. 2130 - 6147

STATE PROJECT NUMBER	SHEET NO.
6007-1-73/74	5.2

CAUTION GAS LINE APPROX. LOC.

70'

PARK

PROJECT LIMITS 95+45

ROAD

N.

MATCH EXIST. 781.84

STA 412+02.91 C.T.H. "G"; STA 95+00 PARK ENTRANCE

781.52

18'

781.52

18'

SAW CUT REQ'D. BIT. SURFACE REQ'D. (BY OTHERS)

SILT FENCE REQ'D.

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

25' R.

25' R.

33'

EXISTING R/W

G

12

10

18" SAN. (EXIST.)

M.H. (ADJ.-BY OTHERS)

88°52'43"

CURB CUTS REQ'D FOR FUTURE TYPE 2 RAMPS

410

CONST. R/W

12" SAN. (EXIST.)

C.T.H. "G"

415

M.H. (ADJ.-BY OTHERS)

W

8" WATER (EXIST.)

6" WATER (EXIST.)

13

18" STORM (EXIST.)

M.H. (ADJ.)

14

11

M.H. (ADJ.)

SILT FENCE REQ'D.

CRUSHED AGG. SURFACE REQ'D.

CRUSHED AGG. SURFACE REQ'D.

EXISTING R/W

33

SEE PREVIOUS SHEET

+81

SEE NEXT SHEET

EXIST. ℄ PROFILE

PROPOSED ℄ GRADE

-0.30 %

+0.33%

+0.302%

VPI 410+60 780.70

0.25% D.S.E.T.

784

782

780

774

772

770

781.18 781.03 780.88 780.73 780.82 780.97 781.12 781.28 781.43 781.58 781.73 781.88

409 410 411 412 413 414 415

5.2

Cat. No. 21830 – 0142

STATE PROJECT NUMBER	SHEET NO.
6007-1-73/74	5.2

1	TOP OF EAST END 16" RCP CULV. 1ST RING BACK STA 418+65 RT	782.66

N.

CAUTION GAS LINE APPROX. LOC.

CONCRETE CURB & GUTTER 30" TYPE D REQ'D

CRUSHED AGG. SURFACE REQ'D.

SILT FENCE REQ'D.

STA 420+17 C.T.H. "G" = STA 5+00 GRANT STREET

EXISTING R/W

33'

20'

CONST. R/W

C.T.H. "G"

M.H. (ADJ. - BY OTHERS)

18" SAN. (EXIST.)

12" SAN. (EXIST.)

6" WATER (EXIST.)

30" STM. (EXIST.)

M.H. (ADJ)

CURB CUTS REQ'D FOR FUTURE TYPE E RAMPS

415

420

15" STORM (EXIST.)

8" STORM (EXIST.)

CLEAN OUT

PROJECT LIMITS +55

25' R.

18'

MATCH EXIST 783.45

18" SAN.

30" STORM (EXIST.)

GRANT STREET

783.12

783.20

783.13

783.37

783.19

UNCL. EXC. = 3,035 CU YD
FILL = 990 CU YD
WASTE = 1,657 CU YD

EXIST. ℄ PROFILE

PROPOSED ℄ GRADE

+0.33%
+0.32%

P.I. 420+33.33
783.99

784
782
780

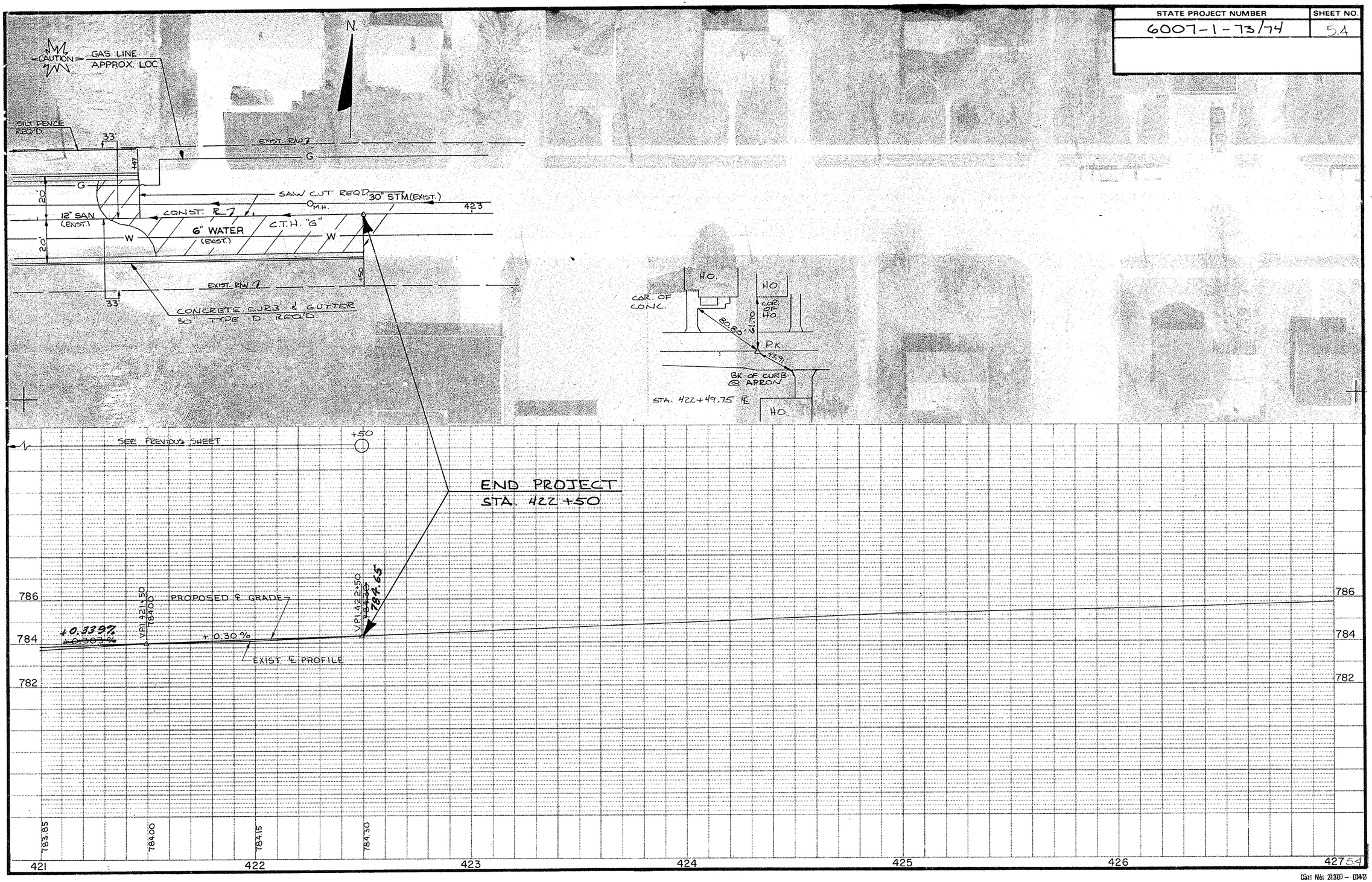
782.03 | 782.18 | 782.33 | 782.49 | 782.64 | 782.79 | 782.94 | 783.09 | 783.24 | 783.39 | 783.55 | 783.70

415 | 416 | 417 | 418 | 419 | 420 | 421

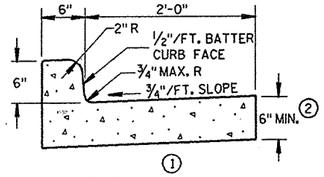
53

Cat. No. 2136 - 6142

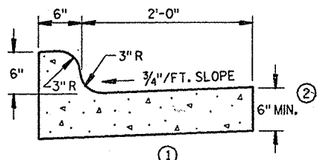
STATE PROJECT NUMBER	SHEET NO.
6007-1-73/74	5.4



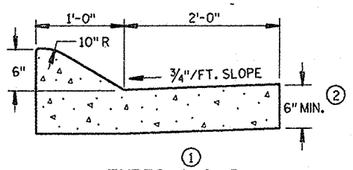
Cat. No. 21300 – 0142



① TYPES A & D

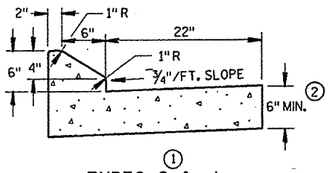


① TYPES K & L

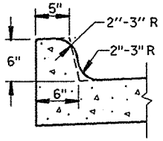


① TYPES A & D

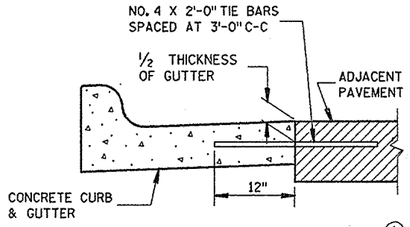
CONCRETE CURB & GUTTER 36"



① TYPES G & J



OPTIONAL CURB SHAPE FOR TYPES K ① & L



① TYPICAL TIE BAR LOCATION

CONCRETE CURB & GUTTER 30"

GENERAL NOTES

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

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

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

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

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

PAVEMENT JOINTS SHALL BE EXTENDED THROUGH INTEGRAL CURB & GUTTER. JOINTS IN INTEGRAL GUTTER SHALL HAVE THE SAME DIMENSIONS AS THE JOINTS IN THE ADJACENT PAVEMENT. JOINTS IN INTEGRAL CURB SHALL BE 1/8" WIDE.

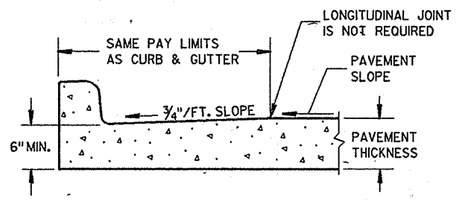
JOINTS IN INTEGRAL CURB & GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME SEALANT SPECIFIED FOR THE PAVEMENT JOINT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB & GUTTER.

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

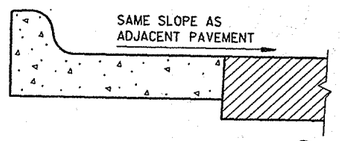
① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G AND K.

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

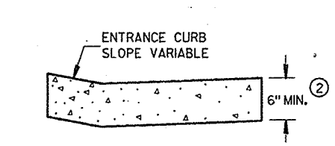
③ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATIONS WILL BE SHOWN ELSEWHERE IN THE PLAN.



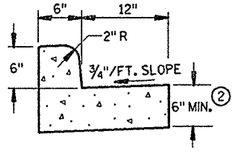
PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



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

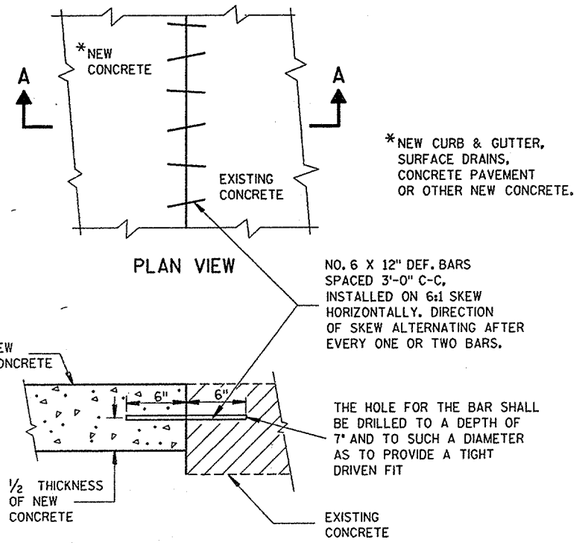


DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)



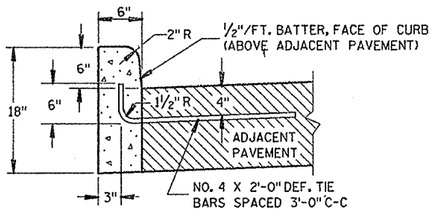
① TYPES A & D

CONCRETE CURB & GUTTER 18"

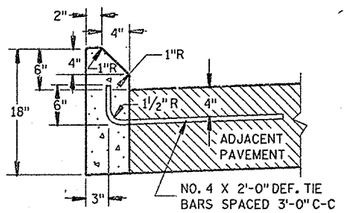


PLAN VIEW

SECTION A-A
PAVEMENT TIES



① TYPES A & D



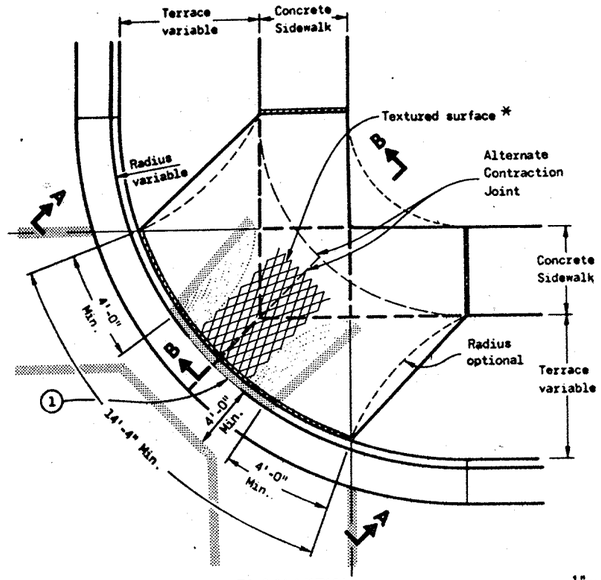
① TYPES G & J

CONCRETE CURB

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

S.D.D. 8 D 1-11

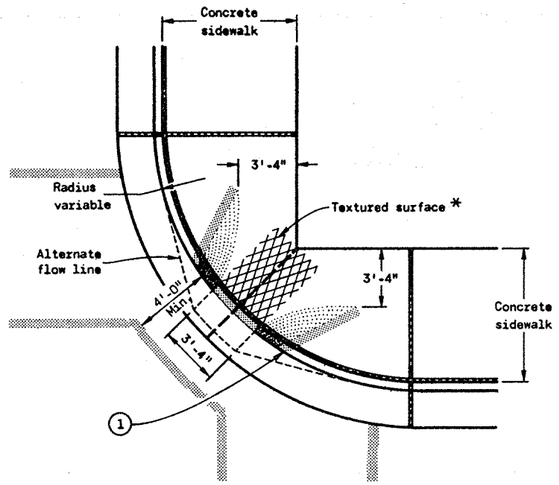
S.D.D. 8 D 1-11



PLAN VIEW

TYPE 1 RAMP

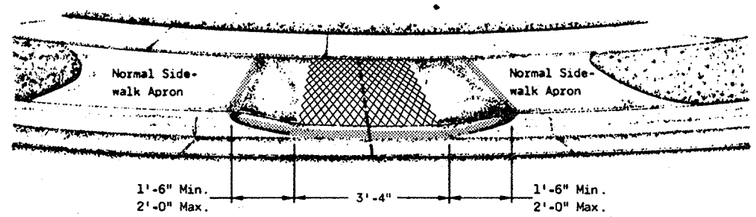
(CENTER OF CORNER RADIUS)



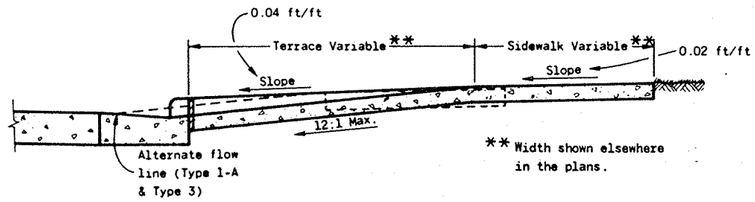
PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)



VIEW **A-A**



SECTION **B-B**

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

— — — CONTRACTION JOINTS

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

GENERAL NOTES

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

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

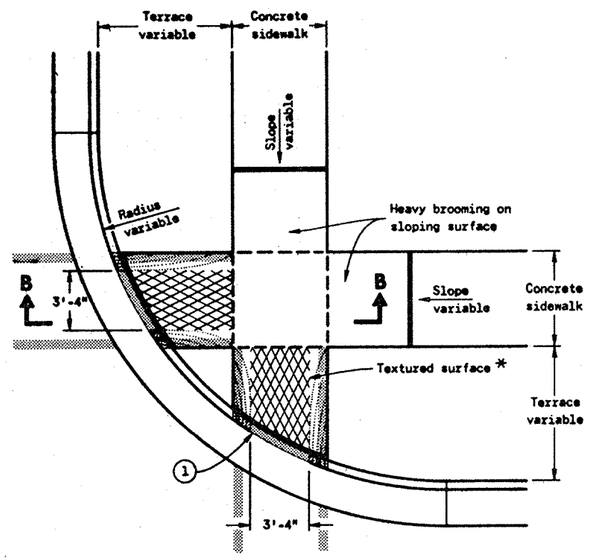
Type 1 or Type 1-A Ramps shall have a normal sidewalk apron and curb on both sides of ramp

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

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

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

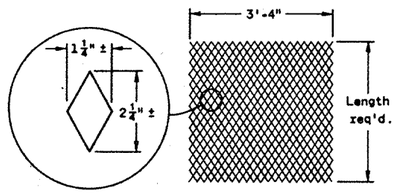
If a municapality requires the brick alternate, special details and provisions are shown elsewhere in the plans.



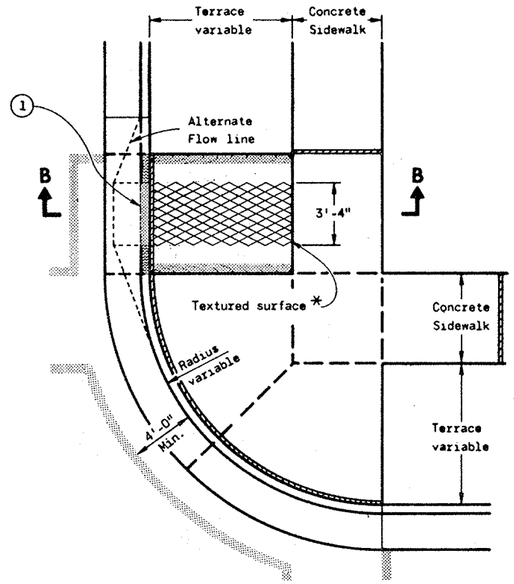
PLAN VIEW

TYPE 2 RAMP

(ON LINE WITH SIDEWALK)



DETAIL OF DIAMOND PATTERN * .



PLAN VIEW

TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS

State of Wisconsin
Department of Transportation

APPROVED 10-23-84 DATE
FHWA

CHIEF DESIGN ENGINEER

S.D.D. 8 D 5-8

S.D.D. 8 D 5-8

METAL APRON ENDWALLS

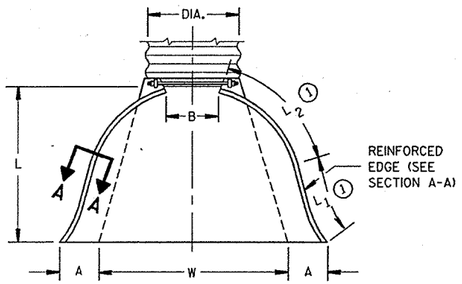
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1½")	L_1 ①	L_2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17½	24	2½ to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21¾	30	2½ to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28¼	36	2½ to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29⅝	42	2½ to 1	1 Pc.
24	.079	.075	10	13	6	41	18	37¼	48	2½ to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52¼	60	2½ to 1	1 Pc.
36	.109	.105	14	19	9	60	24	59¾	72	2½ to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75⅝	84	2½ to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2¼ to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85½	102	2¼ to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1½ to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1½ to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1½ to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1½ to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

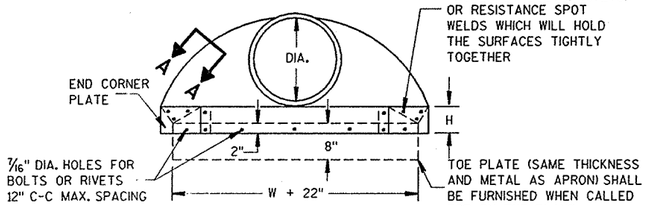
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48⅞	72⅛	24	2	3 to 1
15	2¼	6	27	46	73	30	2¼	3 to 1
18	2½	9	27	46	73	36	2½	3 to 1
21	2¾	9	36	37½	73½	42	2¾	3 to 1
24	3	9½	43½	30	73½	48	3	3 to 1
27	3¼	10½	49½	24	73½	54	3¼	3 to 1
30	3½	12	54	19¾	73½	60	3½	3 to 1
36	4	15	63	34¾	97¼	72	4	3 to 1
42	4½	21	63	35	98	78	4½	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5½	27	65	* 33¼-35 ** 98¼- 100		90	5½	2⅝ to 1
60	6	* 30-35 **	60	39	99	96	5	2 to 1
66	6½	* 24-30 **	* 72-78 **	* 21-27	99	102	5½	2 to 1
72	7	* 24-36 **	78	21	99	108	6	2 to 1
78	7½	* 24-36 **	78	21	99	114	6½	2 to 1
84	8	36	90½	21	111½	120	6½	1½ to 1
90	8½	41	87½	24	111½	132	6½	1½ to 1

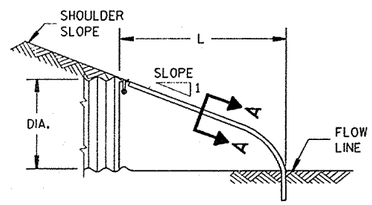
*MINIMUM
**MAXIMUM



PLAN VIEW

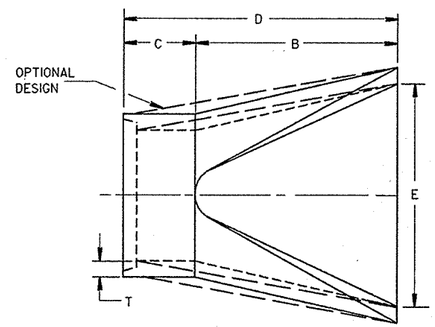


END VIEW

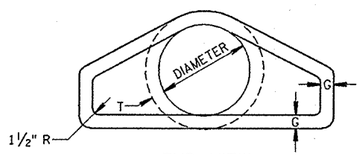


SIDE ELEVATION

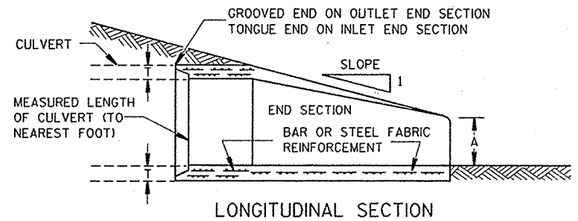
METAL ENDWALLS



PLAN

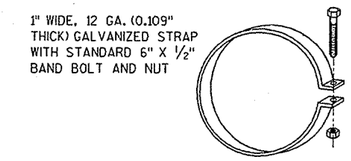


END VIEW



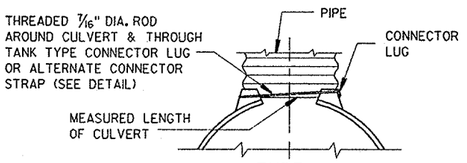
LONGITUDINAL SECTION

CONCRETE ENDWALLS

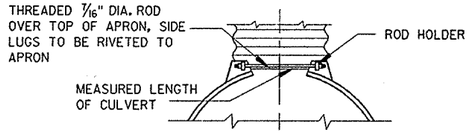


ALTERNATE FOR TYPE 1 CONNECTION

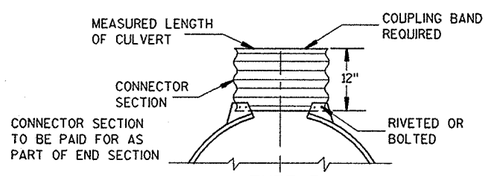
END SECTION CONNECTOR STRAP



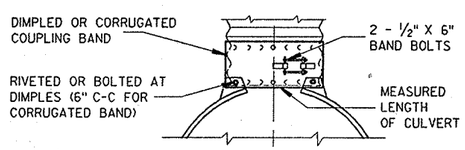
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

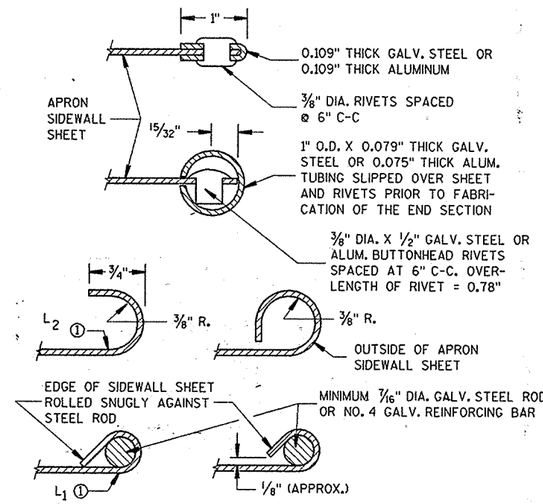
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

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

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

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

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

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

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

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

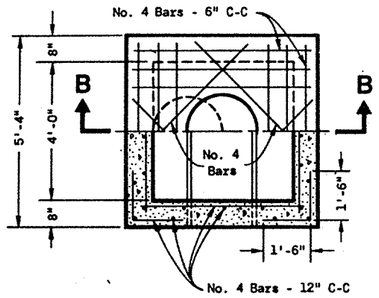
APPROVED 12/17/87 DATE

STATE DESIGN ENGINEER FOR HWYS

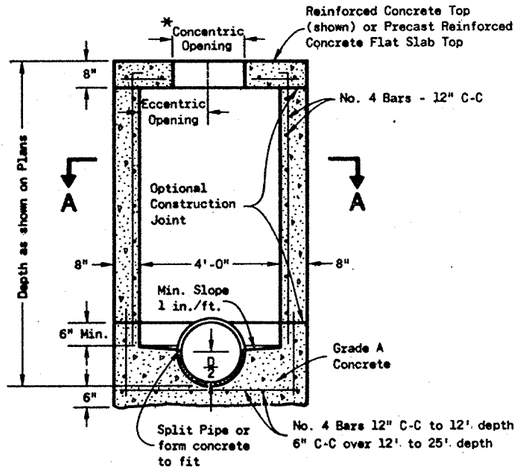
FHWA

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

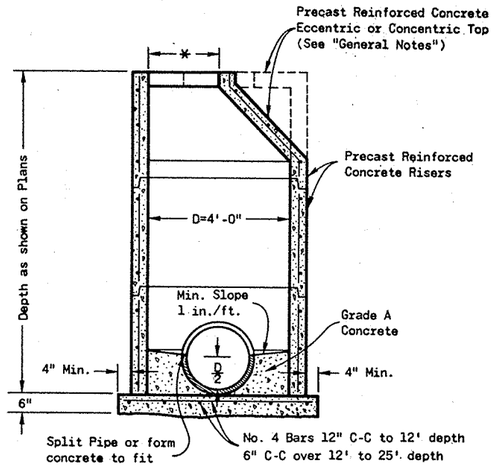
S.D.D. 8 F 1-10a



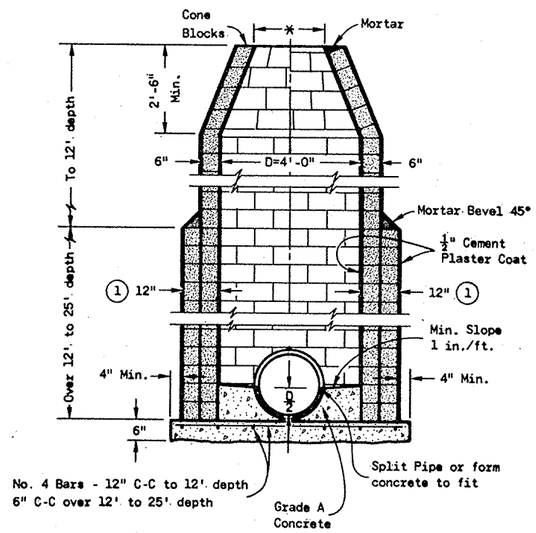
HALF SECTION **A–A**



SECTION **B–B**
REINFORCED CONCRETE



PRECAST REINFORCED CONCRETE



CONCRETE BLOCK

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

(1) 2 courses 6" block.

MANHOLES TYPE 1

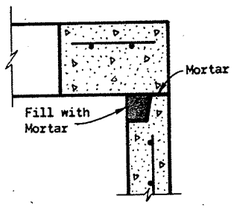
State of Wisconsin
Department of Transportation

APPROVED 4-13-82
DATE
CHIEF DESIGN ENGINEER
FHWA

S.D.D. 8 B 6-3

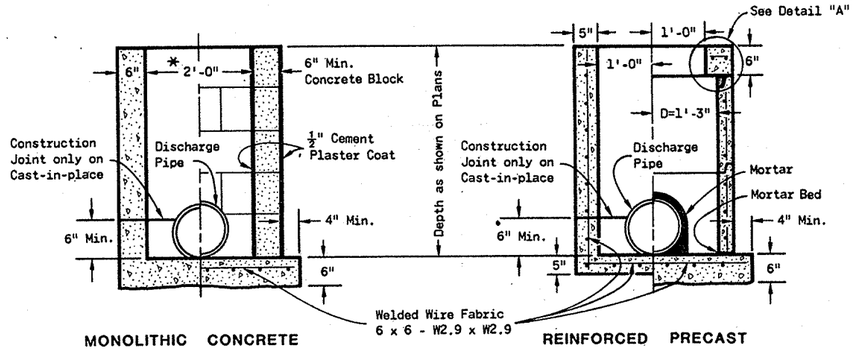
MANHOLES TYPE 1

S.D.D. 8 B 6-3



DETAIL "A"

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



MONOLITHIC CONCRETE | CONCRETE BLOCK | REINFORCED CONCRETE | PRECAST REINFORCED CONCRETE

INLETS TYPE 1

GENERAL NOTES

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

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

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

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

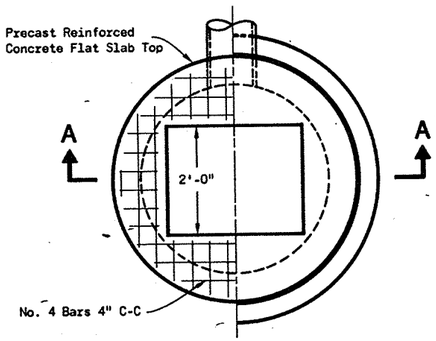
Precast Reinforced Bases shall be placed on a bed of material at least 6 inches in depth, which meets the requirements for Granular Backfill. This bedding shall be compacted and provide uniform support for the entire area of the base.

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

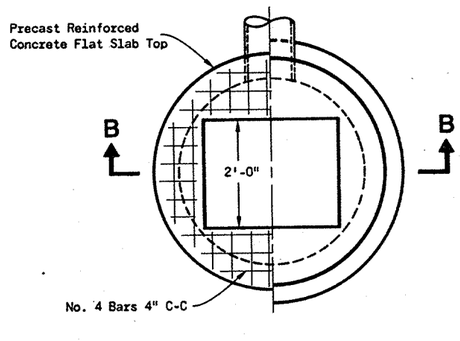
All Bar Steel reinforcement shall be embedded 2 inches clear unless otherwise shown or noted.

Precast Reinforced Concrete Risers shall be placed with tongue down.

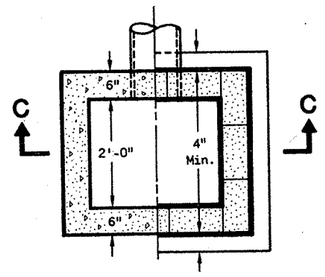
(1) Use 2'-6" opening for Type 2 Inlets and 3'-0" opening for Type 3 Inlets.



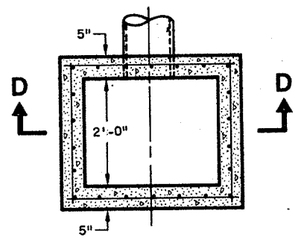
PLAN VIEW



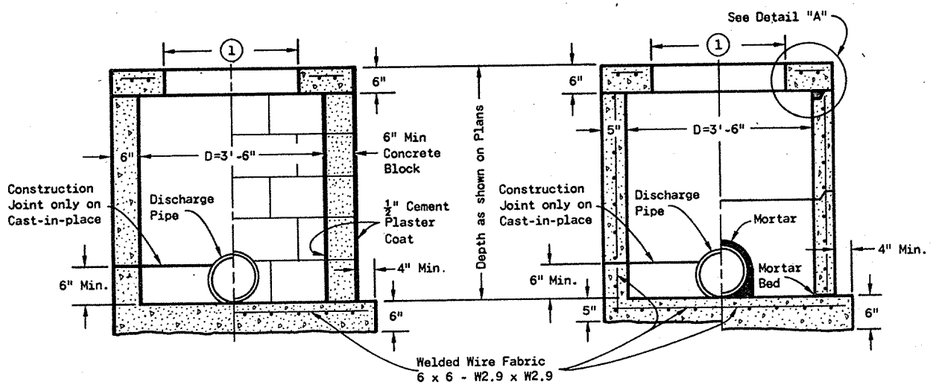
PLAN VIEW



PLAN VIEW



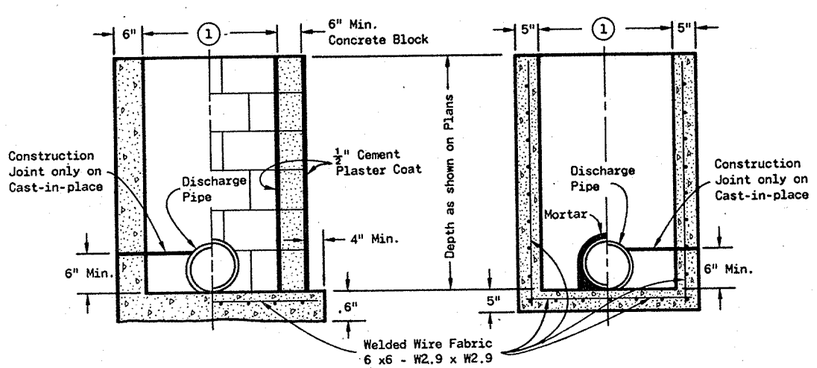
PLAN VIEW



MONOLITHIC CONCRETE | CONCRETE BLOCK | REINFORCED CONCRETE | PRECAST REINFORCED CONCRETE

SECTION A-A

SECTION B-B



MONOLITHIC CONCRETE | CONCRETE BLOCK | PRECAST REINFORCED CONCRETE | REINFORCED CONCRETE

SECTION C-C

SECTION D-D

INLETS TYPE 2 & 3

INLETS TYPE 1, 2 & 3

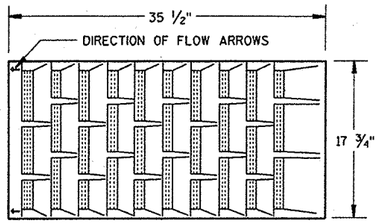
State of Wisconsin
Department of Transportation

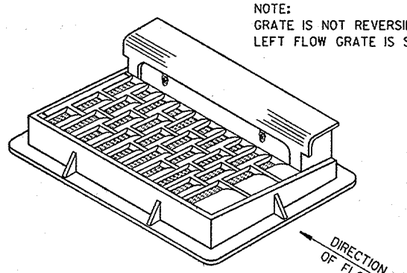
APPROVED 4-13-82 DATE
FHWA

CHIEF DESIGN ENGINEER

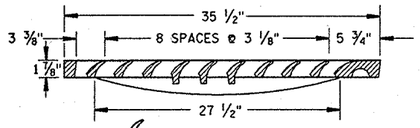
S.D.D. 8 C 1-4

S.D.D. 8 C 1-4

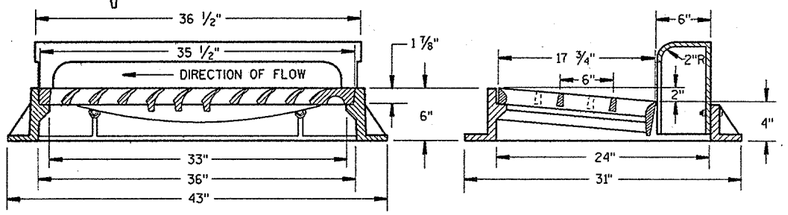




NOTE:
GRATE IS NOT REVERSIBLE.
LEFT FLOW GRATE IS SHOWN

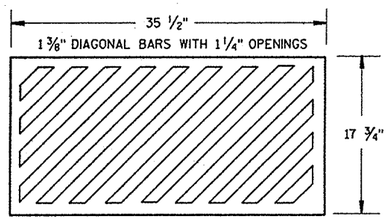


NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"



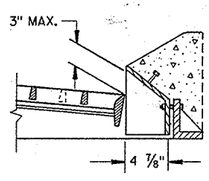
TYPE "H"

(APPROXIMATE WEIGHT 510 LBS.)

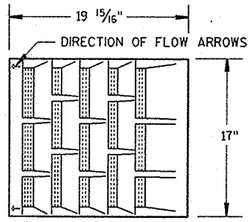


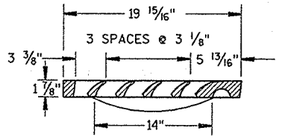
SPECIAL GRATE NO. 1

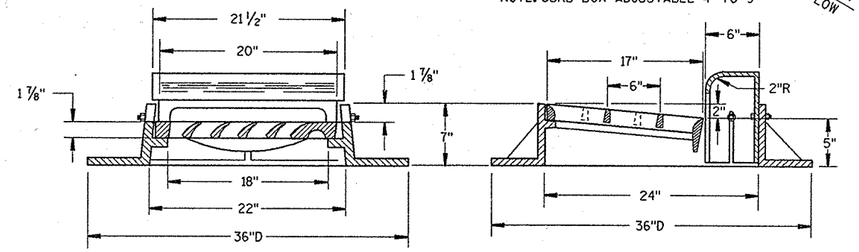
(APPROXIMATE WEIGHT 175 LBS.)
(NOTE AS TYPE H1 ON DRAINAGE TABLE)



MOUNTABLE CURB BOX FOR TYPES "A" & "H" COVERS







TYPE "A"

(APPROXIMATE WEIGHT 410 LBS.)

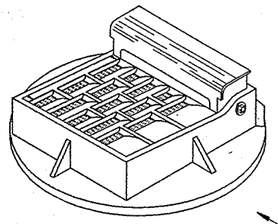
GENERAL NOTES

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

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

ALL CATCH BASIN, MANHOLE AND INLET COVERS WHICH ARE PLACED IN VEHICULAR TRAFFIC AREAS SHALL BE "NON-ROCKING" TYPE.

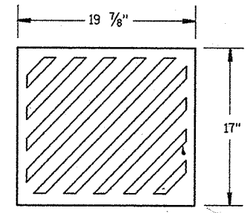
THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.



NOTE:
GRATE IS NOT REVERSIBLE
LEFT FLOW GRATE IS SHOWN

NOTE: CURB BOX ADJUSTABLE 4" TO 9"

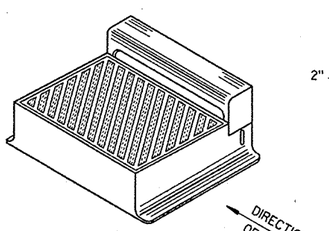
1" DIAGONAL BARS
WITH 1 ½" OPENINGS



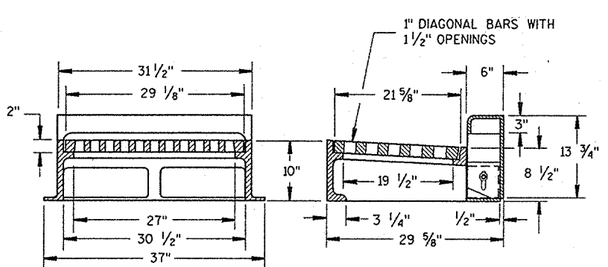
SPECIAL GRATE NO. 1

(APPROXIMATE WEIGHT 85 LBS.)

(NOTE AS TYPE A1 ON DRAINAGE TABLE)



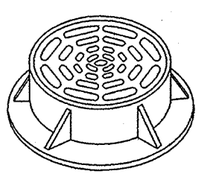
DIAGONAL SLOTS, SHALL BE ORIENTED
TO THE DIRECTION OF FLOW AS ILLUSTRATED.
GRATES ARE MANUFACTURED TO BE REVERSIBLE.

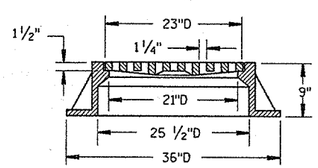


NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

(APPROXIMATE WEIGHT 650 LBS.)





TYPE "C"

(APPROXIMATE WEIGHT 365 LBS.)

INLET COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

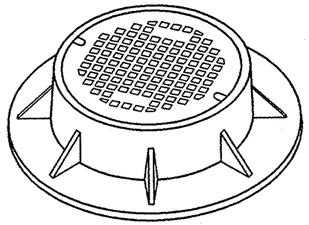
APPROVED 8-11-88
DATE

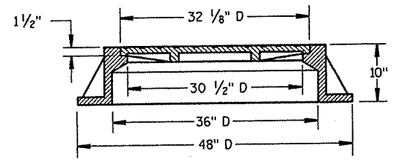
STATE DESIGN ENGINEER FOR HWYS

FHWA

S.D.D. 8 A 5-6a

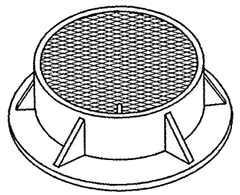
S.D.D. 8 A 5-6a

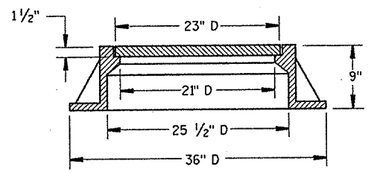




TYPE "K"

(APPROXIMATE WEIGHT 775 LBS.)





TYPE "J"

(APPROXIMATE WEIGHT 395 LBS.)

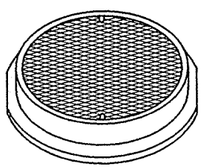
GENERAL NOTES

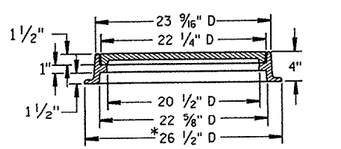
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

ALL COVERS PLACED IN VEHICULAR TRAFFIC AREAS SHALL BE "NON-ROCKING" TYPE.

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

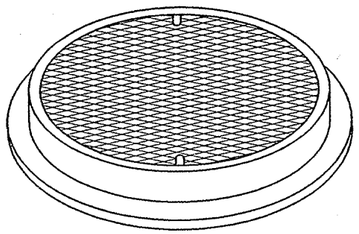


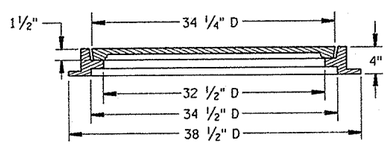


* *THIS DIMENSION IS 25 ½" ON BEVELED SIDE

TYPE "L"

(APPROXIMATE WEIGHT 146 LBS.)





TYPE "M"

(APPROXIMATE WEIGHT 385 LBS.)

MANHOLE COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-11-88
DATE

STATE DESIGN ENGINEER FOR HWYS

FHWA

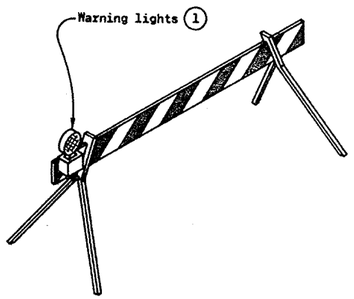
S.D.D. 8 A 5-6c

S.D.D. 8 A 5-6c

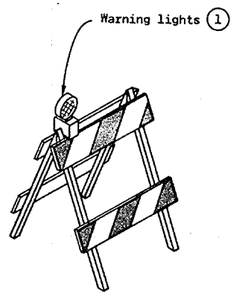
TABLE OF BARRICADE CHARACTERISTICS

BARRICADE TYPE	I	II	III
Height	3' Minimum		5' Minimum
*Rail Width	8" Minimum to 12" Maximum		
Rail Length	2' Minimum		4' Minimum
**Stripe Width	6" at 45° Angle		
Stripe Colors	Reflectorized Orange & White		

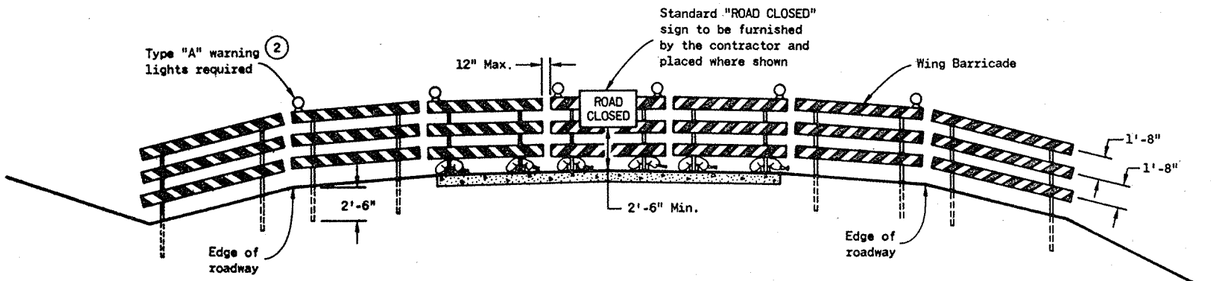
*Nominal dimensions when barricade is constructed of lumber.
**Shall be 4" for rail lengths less than 3'.



TYPICAL TYPE I BARRICADE



TYPICAL TYPE II BARRICADE



TYPICAL INSTALLATION SHOWING TYPE III BARRICADE

CONSTRUCTION BARRICADES

R11-2
48" x 30"
Black Lettering on Reflective White Background
Letter Series "D"
Letter height 8"

W20-3
48" x 48"
Black Lettering on Reflective Orange Background
Letter Series "D"
Letter height 7"

STANDARD SIGNS - TYPE II

GENERAL NOTES

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

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

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

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

Each barricade shall have the name and telephone number of a person responsible for 24 hour emergency service printed in letters at least $\frac{3}{4}$ inch in height on the barricade rails. Prior to May 1, 1983, such information may be shown on either front or back faces of the barricade rails. After May 1, 1983, all printed information or identification markings shall be shown only on the back side of barricade rails.

Type I Barricades may include other unstriped horizontal panels necessary to provide stability.

On high speed expressways or in other situations where barricades may be susceptible to overturning in the wind, sandbags should be used for ballasting. Sandbags may be placed on lower parts of the frame or stays to provide the required ballast but shall not be placed on top of any striped rail.

(1) Unless otherwise provided elsewhere in the contract, warning lights are required on all barricades which will be located near traffic operations during periods of inclement weather or hours of darkness. Barricades used to shield isolated hazards shall be equipped with Type "A" (low intensity - flashing) lights unless Type "B" (high intensity)- flashing) lights are specified elsewhere in the contract documents. Barricades used for channelization or delineation of the travel path shall be equipped with Type "C" (steady burn) lights except for the initial barricade(s) in sequence, which shall be equipped with Type "A" or "B" lights as previously noted.

(2) Two warning lights shall be provided on the center barricade and at least one warning light shall be provided on each of the other barricades within the roadway limits. Spacing of the warning lights shall be uniform to the edge of roadway as shown.

CONSTRUCTION BARRICADES & STANDARD SIGNS

State of Wisconsin
Department of Transportation

APPROVED 9-14-81 DATE
FHWA

CHIEF DESIGN ENGINEER

S.D.D. 15 C 1-7

S.D.D. 15 C 1-7