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DGN LEVELS ON = 1-63

REFERENCE FILES
ON = 13-63
u±±±±.dgn
10-16-92

PLAN SYMBOLS

COUNTY LINE
CORPORATE LIMITS
PROPERTY LINE
LOT LINE
LIMITED HIGHWAY EASEMENT
EXISTING RIGHT OF WAY
NEW RIGHT OF WAY
REFERENCE LINE
SLOPE INTERCEPT
ORIGINAL GROUND
MARSH OR ROCK PROFILE
CULVERT IN PLACE
CULVERT REQUIRED
CULVERT REQUIRED (Profile)
RAILROADS
MARSH
WOODED AREA
RIGHT-OF-WAY MARKERS
COMBUSTIBLE FLUIDS (UNDER PRESSURE) — CAUTION

UTILITIES SYMBOLS

UNDERGROUND UTILITIES
GAS — G —
ELECTRIC — E —
TELEPHONE — T —
SERVICE PEDESTAL TP
CABLE MARKER P
POWER POLE
TELEPHONE POLE

SCALES

PLAN 10'
PROFILE 20' HORIZ. 5' VERT.

MINNESOTA DEPARTMENT OF TRANSPORTATION

THE COUNTY OF OLMSTED

CONSTRUCTION PLAN FOR PEDESTRIAN BRIDGE NO. 55562 AND APPROACHES

LOCATED OVER C.S.A.H. 22 BETWEEN C.S.A.H. 2 AND 26th STREET NE (GEOGRAPHIC DESCRIPTION)

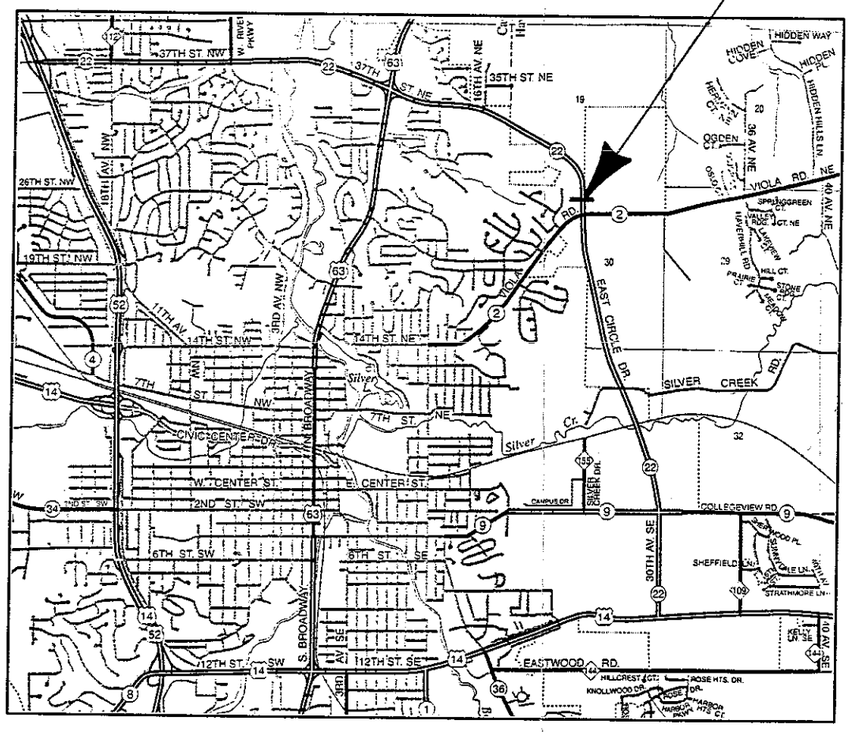
PROJECT IS LOCATED IN SECTION 30, 0.1 MILES NORTH OF THE INTERSECTION OF C.S.A.H. 22 AND C.S.A.H. 2 IN TOWNSHIP 107 N , RANGE 13 W, IN THE CITY OF ROCHESTER, OLMSTED COUNTY, MINNESOTA (LEGAL DESCRIPTION)

S.A.P. NO. 55-622-34

PEDESTRIAN OVERPASS INFORMATION

GROSS LENGTH	945.28	FEET	0.179	MILES
BRIDGES-LENGTH	524.55	FEET	0.099	MILES
EXCEPTIONS-LENGTH	0.00	FEET	0.000	MILES
NET LENGTH	420.73	FEET	0.080	MILES
REF. POINT	15+86.67	TO REF. POINT	25+31.95	

PROJECT LOCATION



N

DESIGN DESIGNATION (C.S.A.H. 22)

R		ΣN18$_{cm}$	
ADT (Current Year) 1998	= 10,700	Design Speed 55 MPH	
ADT (Future Year) 2018	= 16,050	Based on STOPPING Sight Distance	
DHV (Design Hr. Vol.)	=	Height of eye 3.50' Height of object 0.50'	
D (Directional Distr.)	=	Design Speed not achieved at:	
T (Heavy Commercial)	= EST. 10 %	STA. TO STA. MPH	
SOIL FACTOR	= 130	STA. TO STA. MPH	
TON DESIGN	= 10		
SHOULDER WIDTH	= 8'		
NO. OF TRAFFIC LANES	= 4		
NO. OF PARKING LANES	= NONE		
FUNCTIONAL CLASSIFICATION: PRINCIPLE ARTERIAL			

AS-BUILT
MAR 14 2001
PROJECT LOCATION
OLMSTED COUNTY
ENGINEERING

MINN. PROJ. NO. ------

GOVERNING SPECIFICATIONS

THE 1988 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AS AMENDED BY THE MAY 2, 1994, SUPPLEMENTAL SPECIFICATION SHALL GOVERN.

INDEX

SHEET NO. 1	TITLE SHEET
SHEET NO. 2 - 4	GENERAL PLAN AND ELEVATION
SHEET NO. 5	ESTIMATED QUANTITIES (BRIDGE)
SHEET NO. 6 - 8	BRIDGE LAYOUT
SHEET NO. 9 - 11	ABUTMENT DETAILS
SHEET NO. 12 - 22	PIER DETAILS
SHEET NO. 23 - 37	SUPERSTRUCTURE DETAILS
SHEET NO. 38	40' PRESTRESSED CONCRETE BEAM DETAILS
SHEET NO. 39 - 40	EXPANSION DEVICE DETAILS
SHEET NO. 41 - 44	FENCE AND RAILING DETAILS
SHEET NO. 45 - 49	STANDARD STRUCTURE DETAILS
SHEET NO. 50	CONCRETE SLOPE PAVING DETAILS
SHEET NO. 51 - 52	SUBSURFACE EXPLORATION
SHEET NO. 53	GENERAL LAYOUT
SHEET NO. 54	ESTIMATED QUANTITIES (APPROACHES)
SHEET NO. 55	TYPICAL RAMP SECTIONS
SHEET NO. 56 - 57	EROSION AND LANDSCAPE PLANS
SHEET NO. 58	PROFILES
SHEET NO. 59 - 60	APPROACH LAYOUT
SHEET NO. 61	RAILING DETAILS
SHEET NO. 62	GUARDRAIL DETAILS
SHEET NO. 63 - 65	CROSS SECTIONS
SHEET NO. 66	TRAFFIC CONTROL

THIS PLAN CONTAINS 66 SHEETS

PLANS PREPARED BY

AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

DESIGN ENGINEER: I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE 4/13/98 REGISTRATION NUMBER 15438
David A. Dahlhoff
AYRES ASSOCIATES DESIGN ENGINEER

LOCAL APPROVALS:

DATE 4/16/98 REGISTRATION NUMBER 10397
Michael J. Keehan
APPROVED OLMSTED COUNTY ENGINEER

STATE AID APPROVALS:

DIST. STATE AID ENGINEER
REVIEWED FOR COMPLIANCE WITH STATE-AID RULES/POLICY
DATE April 20, 1998

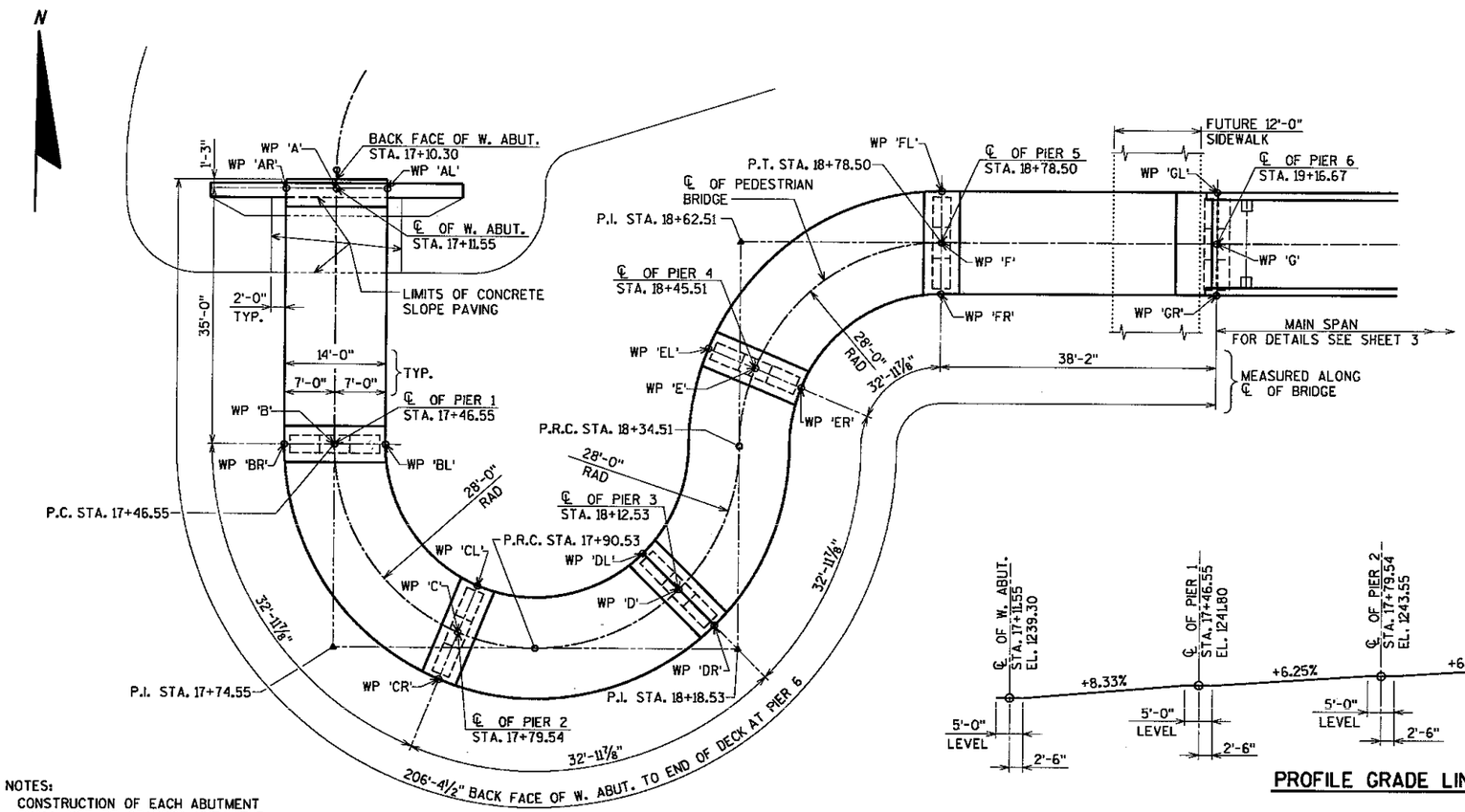
APPROVED Donald L. Flemming STATE BRIDGE ENGINEER
DATE 5-7-98

for Peter B. Wright
APPROVED FOR STATE-AID FUNDING
STATE BRIDGE ENGINEER
DATE 5-11-98

55-622-34

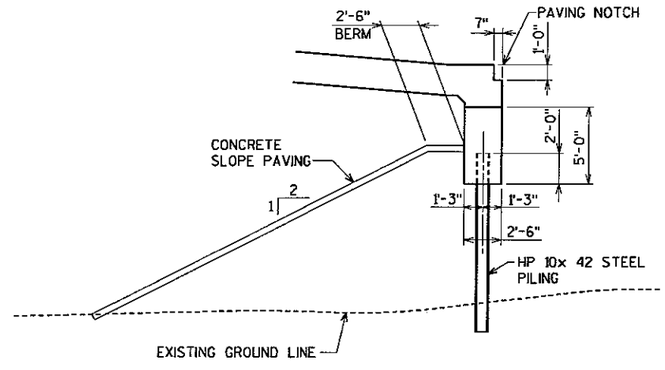
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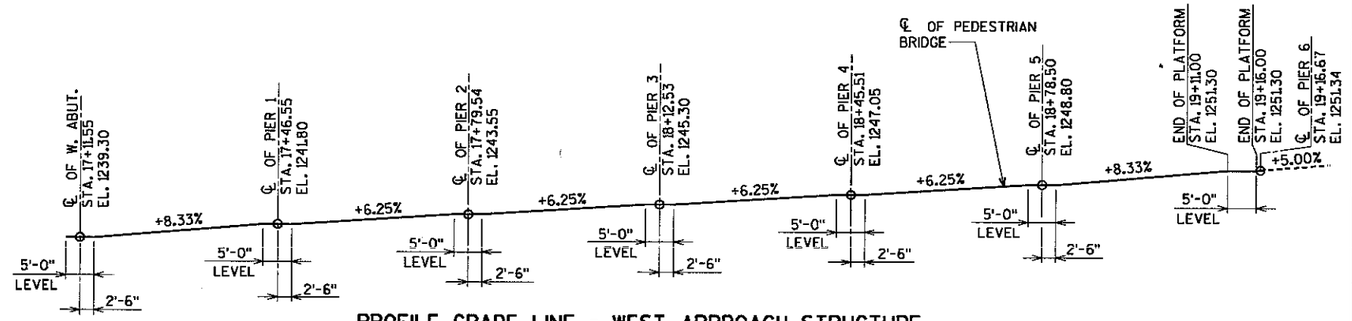


PLAN
6 SPAN CONCRETE FLAT SLAB

NOTES:
CONSTRUCTION OF EACH ABUTMENT SHALL NOT BE STARTED UNTIL THE APPROACH FILL AT THE ABUTMENT HAS BEEN CONSTRUCTED TO THE FULL HEIGHT AND CROSS SECTION AND ALLOWED TO SETTLE FOR 72 HOURS.

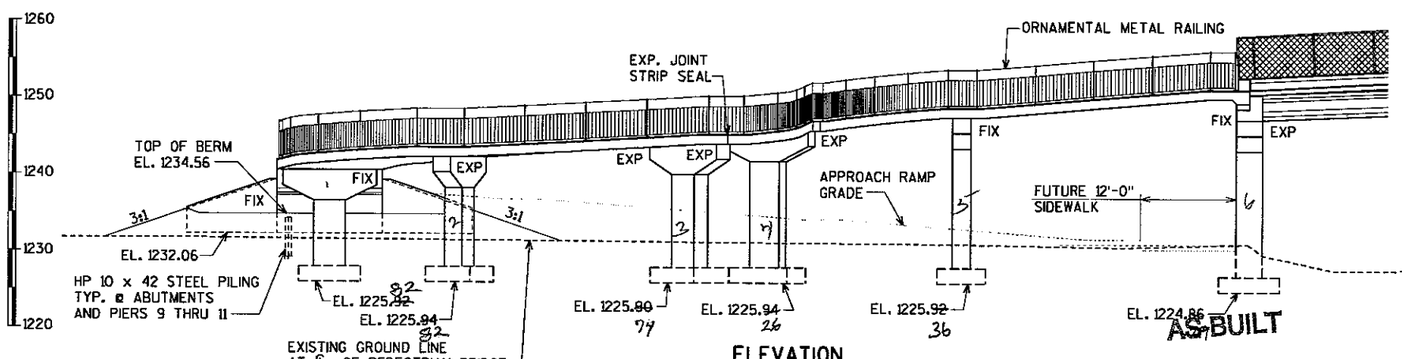


TYP. SECTION THRU ABUTMENT
(LOOKING WEST)



PROFILE GRADE LINE - WEST APPROACH STRUCTURE

BENCH MARK:
TOP OF SQUARE PIPE WITH CAP.
TRAVERSE POINT FOR "CENTURY HIGH SCHOOL".
ELEV. 1235.31



ELEVATION
(LOOKING NORTH)

MAR 14 2001
ENGINEERING

S.A.P. NO. 55-622-34

COUNTY APPROVAL
DATE 4/16/98
Michael Sheehan
APPROVED OLMSTED COUNTY ENGINEER

MINNESOTA DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 55562
LOCATED OVER C.S.A.H. 22
0.1 MILE NORTH OF C.S.A.H. 2 IN OLMSTED COUNTY.
2 - 84' PRESTRESSED CONCRETE BEAM SPANS
12' PEDESTRIAN WALKWAY
0° SKEW

SPAN IDENT. NO. 501

GENERAL PLAN & ELEVATION WEST APPROACH

SEC. 30 T 107 N R 13 W
CITY OF ROCHESTER OLMSTED COUNTY

APPROVED: Donald J. Fleming DATE 5-7-98
STATE BRIDGE ENGINEER

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

DESIGN ENGINEER: I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

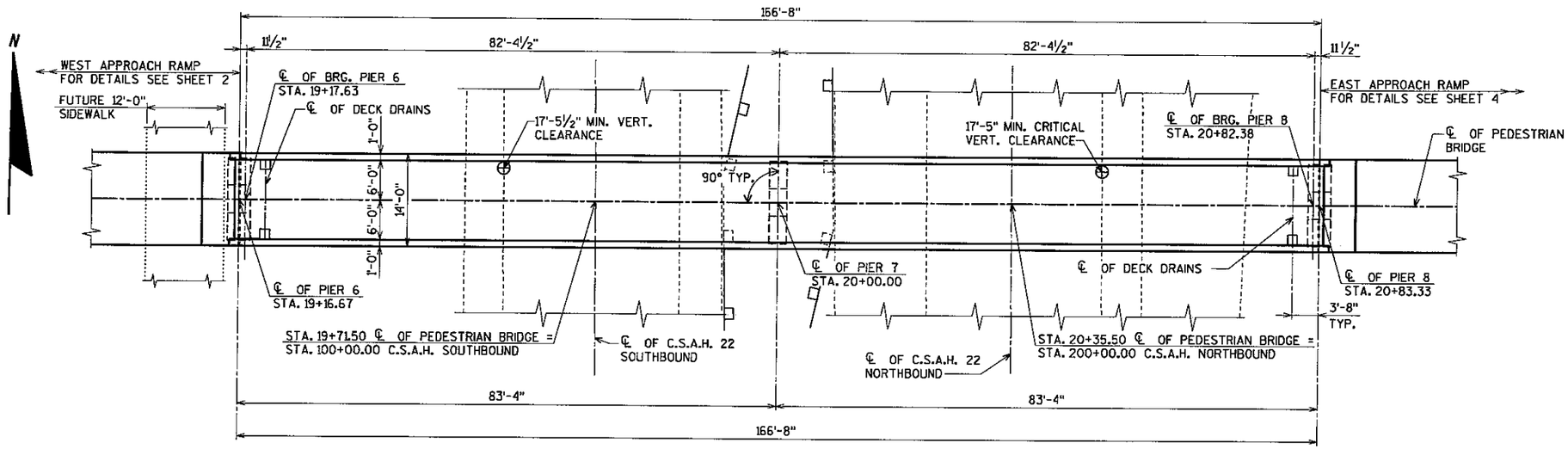
DATE 4/13/98 REGISTRATION NUMBER 15438
David H. Wentzloff
AYRES ASSOCIATES DESIGN ENGINEER

DES: CBM	DR: GLD
CHK: PWD	CHK: CBM

SHEET NO. 2 OF 66 SHEETS

REFERENCE FILES
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0260gp13.dgn
on = 1-10,53-63
minvert.dgn

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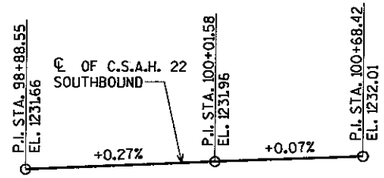


PLAN

2 SPAN 40" PRESTRESSED GIRDER BRIDGE

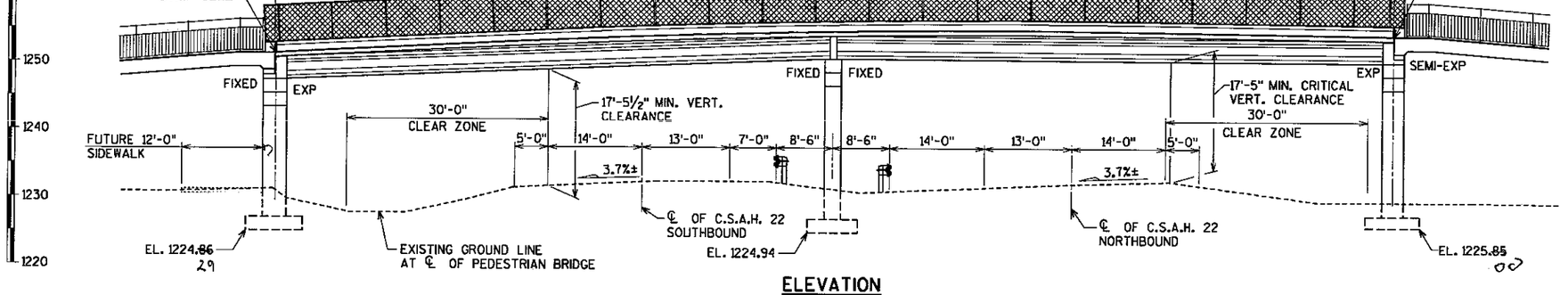
BENCH MARK:

TOP OF SQUARE PIPE WITH CAP.
TRAVERSE POINT FOR "CENTURY HIGH SCHOOL".
ELEV. 1235.31



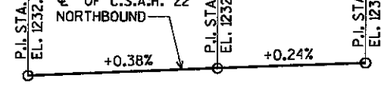
PROFILE GRADE LINE

(C.S.A.H. 22 SOUTHBOUND)
BASED ON FIELD SURVEY



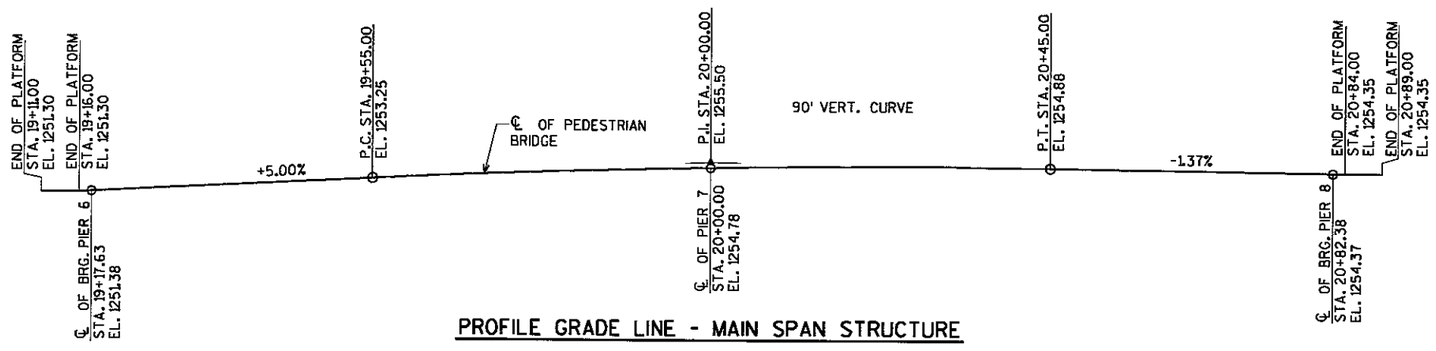
ELEVATION

(LOOKING NORTH)



PROFILE GRADE LINE

(C.S.A.H. 22 NORTHBOUND)
BASED ON FIELD SURVEY



PROFILE GRADE LINE - MAIN SPAN STRUCTURE

AS-BUILT
MAR 14 2001
ENGINEERING

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David A. Ruttloff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: GENERAL PLAN MAIN SPAN

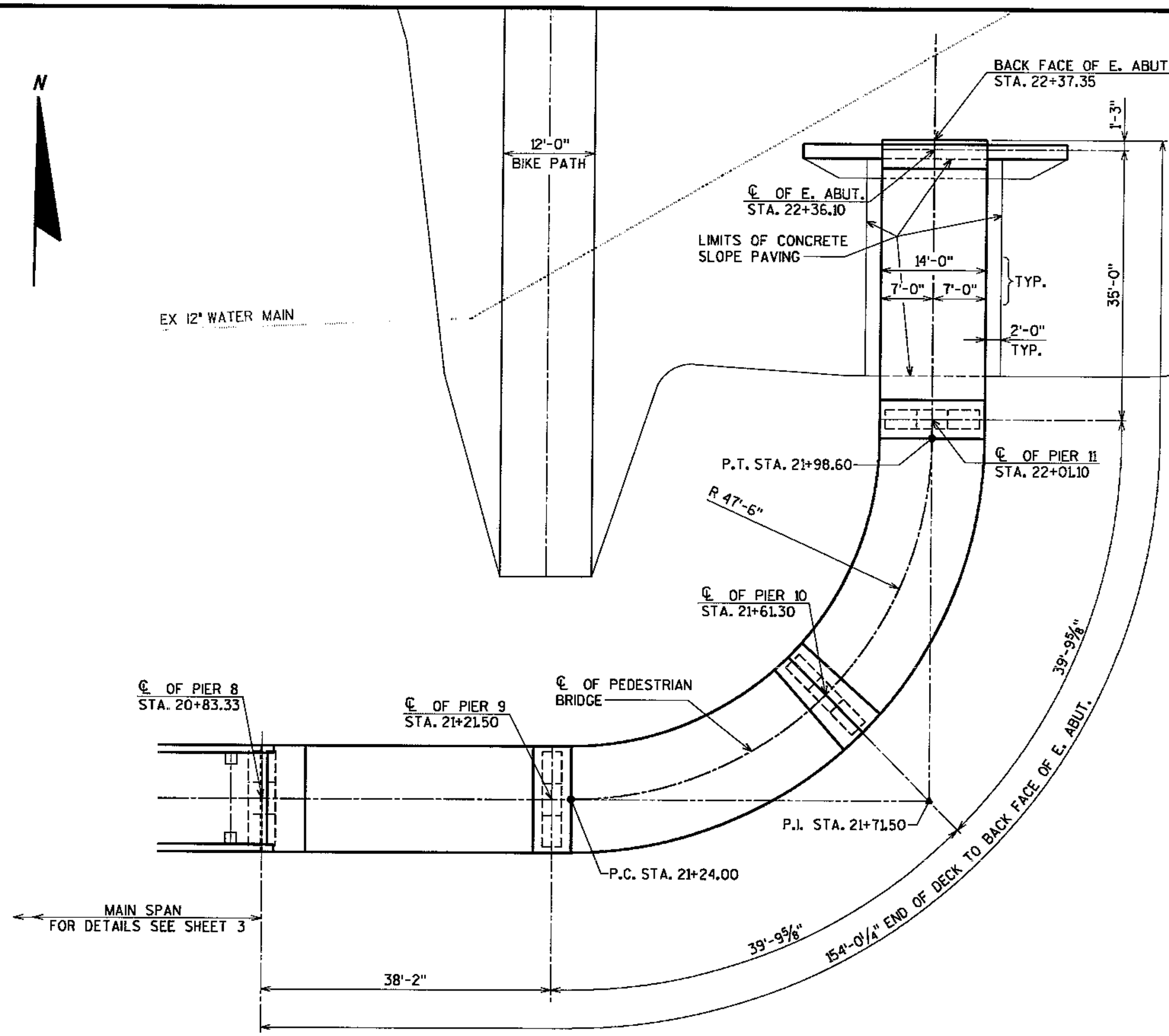
DES: CBM | DR: GLD | APPROVED: 5-7-98
CHK: PWD | CHK: CBM

SHEET NO. 3 OF 66 SHEETS

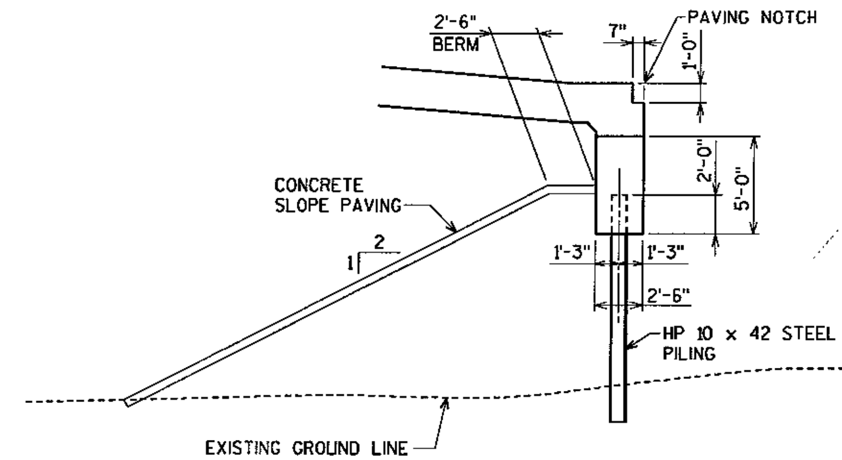
BRIDGE NO. 55562

REFERENCE FILES
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mnmon1.dgn

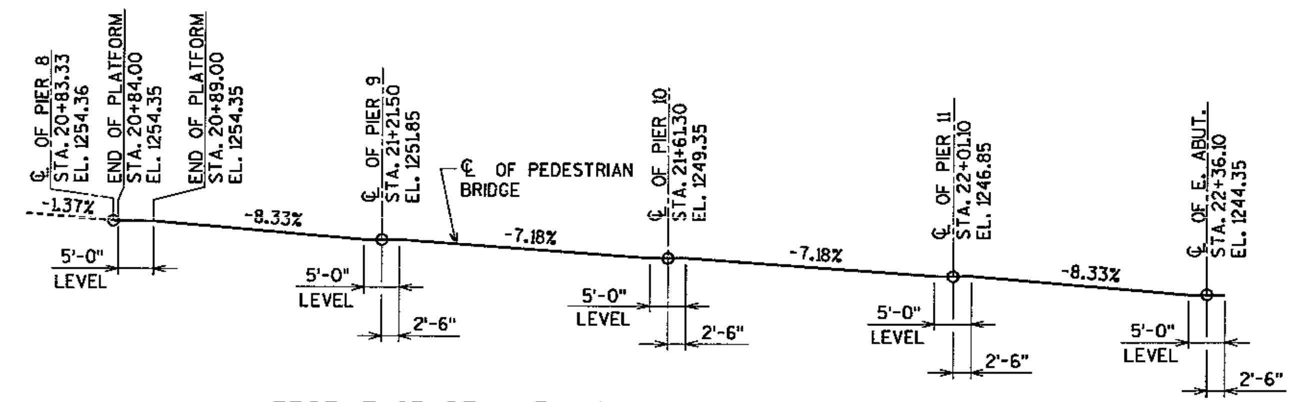
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DGN LEVELS ON = 1-63



PLAN
4 SPAN CONCRETE FLAT SLAB



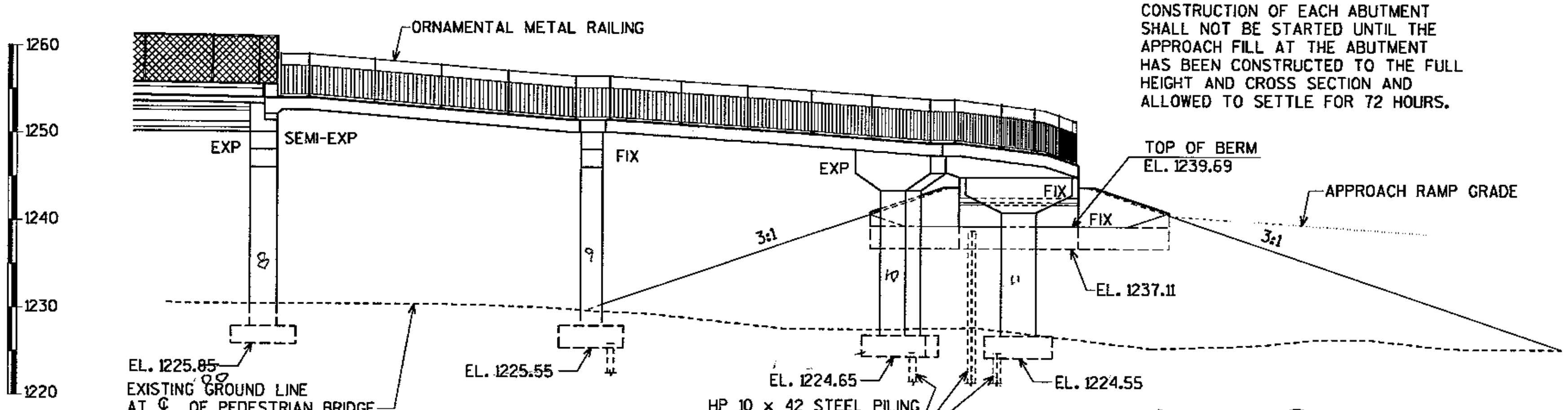
TYP. SECTION THRU ABUTMENT
(LOOKING WEST)



PROFILE GRADE LINE - EAST APPROACH STRUCTURE

BENCH MARK:
TOP OF SQUARE PIPE WITH CAP.
TRAVERSE POINT FOR "CENTURY HIGH SCHOOL".
ELEV. 1235.31

NOTES:
CONSTRUCTION OF EACH ABUTMENT SHALL NOT BE STARTED UNTIL THE APPROACH FILL AT THE ABUTMENT HAS BEEN CONSTRUCTED TO THE FULL HEIGHT AND CROSS SECTION AND ALLOWED TO SETTLE FOR 72 HOURS.



ELEVATION
(LOOKING NORTH)

AS-BUILT
MAR 14 2001
ENGINEERING

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David H. Dantzlaff, PROFESSIONAL ENGINEER REG. NO. 15438 4/13 1998	S.A.P. NO. 55-622-34	TITLE: GENERAL PLAN EAST APPROACH	DES: CBM / CHK: PWD / DR: GLD / CHK: CBM / APPROVED: 5-7-98 SHEET NO. 4 OF 66 SHEETS	BRIDGE NO. 55562

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DATE OF PLOT = 04/10/98
DESIGN FILE IS U:±trbridge±0260gp.dgn
DGN LEVELS ON = 1-63

ESTIMATED QUANTITIES

	ITEM NO.	BID ITEM	UNIT	TOTAL EST. QUANTITY
	2021.501	MOBILIZATION	LUMP SUM	1
	2401.501	STRUCTURE CONCRETE (3Y43)	CU. YD.	145 (P)
	2401.501	STRUCTURE CONCRETE (1A43)	CU. YD.	143.5 (P)
①	2401.512	BRIDGE SLAB CONCRETE (3Y33A)	SQ. FT.	7380 (P)
②	2401.513	RAILING CONCRETE (3Y46A)	LIN. FT.	341 (P)
	2401.541	REINFORCEMENT BARS	POUND	7180 (P)
	2401.541	REINFORCEMENT BARS (EPOXY COATED)	POUND	82480 (P)
	0401.601	STRUCTURE EXCAVATION	LUMP SUM	1
	0401.601	SLOPE PREPARATION	LUMP SUM	1
	2402.546	FLOOR DRAIN, TYPE 1	EACH	4
	2402.583	ORNAMENTAL METAL RAILING	LIN. FT.	715 (P)
⑤	2402.590	ELASTOMERIC BEARING PAD, TYPE 1	EACH	3
⑥	2402.590	ELASTOMERIC BEARING PAD, TYPE 2	EACH	2
⑦	2402.590	ELASTOMERIC BEARING PAD, TYPE 3	EACH	2
	2402.591	EXPANSION JOINT DEVICES, TYPE 1	LIN. FT.	14 (P)
	2402.591	EXPANSION JOINT DEVICES, TYPE 2	LIN. FT.	28 (P)
	2402.592	ELASTOMERIC BEARING ASSEMBLY, TYPE 1	EACH	4
	2405.502	PRESTRESSED CONCRETE BEAMS, 40	LIN. FT.	332 (P)
	2405.511	DIAPHRAGMS FOR TYPE 40 PRESTRESSED BEAMS	LIN. FT.	30 (P)
	2452.510	STEEL H-PILING, DRIVEN 10x42	LIN. FT.	280
	2452.511	STEEL H-PILING, DELIVERED 10x42	LIN. FT.	280
	2452.520	STEEL H-TEST PILE 12 FEET LONG 10x42	EACH	4
	2452.520	STEEL H-TEST PILE 30 FEET LONG 10x42	EACH	1
	0452.602	ROCK SOCKET	EACH	27
	0452.602	PILE TIP PROTECTION 10-INCH	EACH	30
	2514.501	CONCRETE SLOPE PAVING	SY. YD.	75
③	0533.603	INSTALL CONCRETE MEDIAN BARRIER DESIGN 8323	LIN. FT.	190
	2557.501	WIRE FENCE, DESIGN S-1 VINYL COATED	LIN. FT.	334 (P)
④	0557.603	CHAIN LINK ENCLOSURE	LIN. FT.	334 (P)

① TOTAL BRIDGE SLAB CONCRETE MIX NO. 3Y33A VOLUME IS APPROXIMATELY 336 CU. YD.

② TOTAL RAILING CONCRETE (3Y46A) IS APPROXIMATELY 16.4 CU. YD.

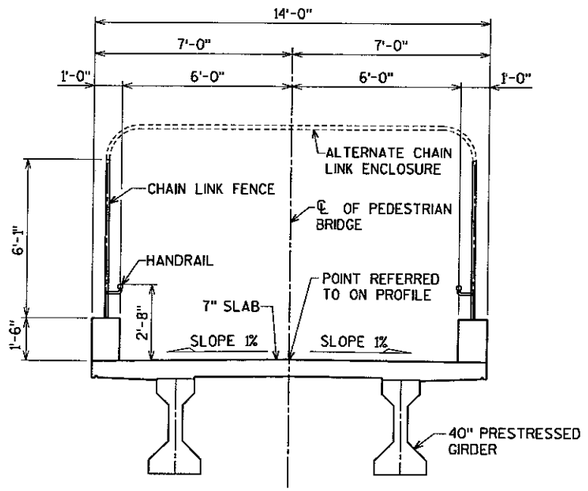
③ REQUIRED AT PIER #7, SEE SHEET 53 AND SPECIAL PROVISIONS.

④ TO BE BID AS AN ALTERNATE.

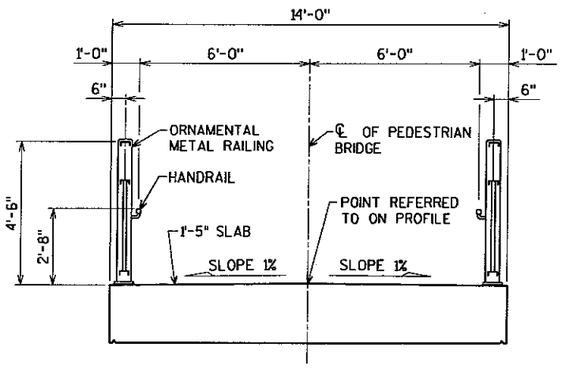
⑤ ELASTOMERIC PAD TO BE 2'-3" x 12'-3" x ½" THICK.

⑥ ELASTOMERIC PAD TO BE 1'-0" x 12'-3" x 1" THICK.

⑦ ELASTOMERIC PAD TO BE 1'-10" x 1'-10" x ½" THICK.



TYP. SECTION THRU SPANS 7 & 8



TYP. SECTION THRU SPANS 1 THRU 6 AND 9 THRU 12

BRIDGE DESIGN DATA:
1996 (AND CURRENT INTERIM) A.A.S.H.T.O. DESIGN SPECIFICATIONS
THE A.A.S.H.T.O. GUIDE SPECIFICATION FOR DESIGN OF PEDESTRIAN BRIDGES
DESIGN LIVE LOAD = 85 P.S.F. OR 10,000 LB. MAINT. VEHICLE WITH IMPACT
LOAD FACTOR DESIGN METHOD
MAXIMUM ALLOWABLE DESIGN STRESSES:
f'c = 4,000 P.S.I. n = 8
Fy = 60,000 P.S.I. (REINFORCEMENT)
PRESTRESSED CONCRETE:
f'c = 7,000 P.S.I. n = 6
Fy = 270,000 P.S.I. (LOW RELAXATION STRANDS)
0.75 f's FOR INITIAL PRESTRESS
SLAB AREA 7362.5 SQ. FT.
DESIGN SPEED UNDER = 70 M.P.H.

CONSTRUCTION NOTES

THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" 1988 EDITION AS AMENDED BY THE MAY 2, 1994 SUPPLEMENTAL SPECIFICATION SHALL GOVERN.

THE FIRST DIGIT OR THE FIRST TWO DIGITS OF EACH BAR MARK INDICATE THE BAR SIZE. BARS MARKED WITH THE SUFFIX "E" SHALL BE EPOXY COATED.

FOUNDATION DATA SUMMARY:

PLACE W. ABUTMENT ON HP 10 x 42 STEEL PILING DRIVEN TO 25 TONS/PILE MINIMUM BEARING VALUE. ESTIMATED LENGTH 10'-0".

PLACE PIERS 1 THRU 8 ON SPREAD FOOTINGS ON LIMESTONE. THE MAXIMUM DESIGN SOIL PRESSURE IS 6 TONS/ SQ. FT.

PLACE PIERS 9 THRU 11 ON HP 10 x 42 STEEL PILING DRIVEN TO 50 TONS/PILE MINIMUM BEARING VALUE. ESTIMATED LENGTH 10'-0". 5'-0" ROCK SOCKETS REQUIRED.

PLACE E. ABUTMENT ON HP 10 x 42 STEEL PILING DRIVEN TO 25 TONS/PILE MINIMUM BEARING VALUE. ESTIMATED LENGTH 25'-0".

ALL PILING SHALL HAVE TIP PROTECTION. SEE SPECIAL PROVISIONS.

AS-BUILT

MAR 14 2001

ENGINEERING

CERTIFIED BY David F. Dahlquist PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: QUANTITIES & NOTES

DES: CBM DR: GLD CHK: CBM CHK: CBM APPROVED: 5-7-98

SHEET NO. 5 OF 66 SHEETS

BRIDGE NO. 55562

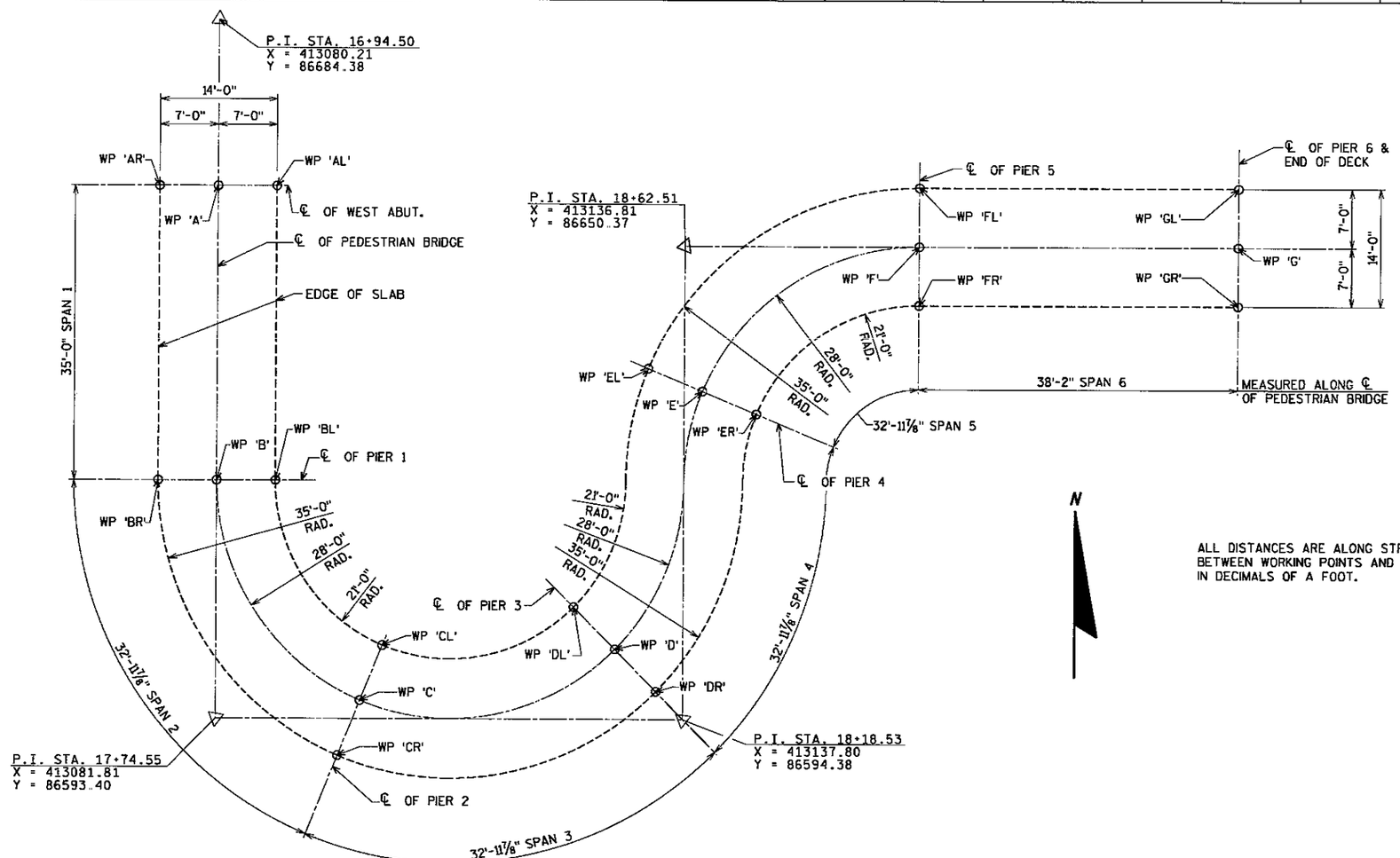
PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

REFERENCE FILES
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DGN LEVELS ON = 1-63

REFERENCE FILES
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dat3rastmark.dgn DN = 163

DIMENSIONS BETWEEN WORKING POINTS																						COORDINATES		
POINT	STATION	AL	A	AR	BL	B	BR	CL	C	CR	DL	D	DR	EL	E	ER	FL	F	FR	GL	G	GR	X-COORD.	Y-COORD.	POINT
AL	17+11.55		7.00		35.00	35.69	37.70			67.77													413087.70	86656.51	AL
A	17+11.55			7.00		35.00	35.69																413080.70	86656.39	A
AR	17+11.55						35.00																413073.70	86656.26	AR
BL	17+46.55					7.00		23.34	27.84	33.22			52.02										413088.31	86621.52	BL
B	17+46.55						7.00		31.11	35.49													413081.31	86621.39	B
BR	17+46.55									38.89													413074.32	86621.27	BR
CL	17+79.54								7.00		23.34	27.84	33.22			52.39							413101.62	86602.35	CL
C	17+79.54									7.00		31.11	35.48										413099.06	86595.83	C
CR	17+79.54												38.89										413096.49	86589.32	CR
DL	18+12.53											7.00		29.58	29.78	31.57			54.57				413124.42	86607.30	DL
D	18+12.53												7.00		32.21	32.50							413129.46	86602.44	D
DR	18+12.53															34.85							413134.49	86597.58	DR
EL	18+45.51														7.00		38.89	35.48	33.21			70.91	413132.73	86635.69	EL
E	18+45.51															7.00		31.11	27.84				413139.25	86633.13	E
ER	18+45.51																		23.34				413145.76	86630.56	ER
FL	18+78.50												67.43			33.23		7.00		38.17	38.80	40.65	413164.69	86657.87	FL
F	18+78.50																		7.00		38.17	38.80	413164.81	86650.87	F
FR	18+78.50																					38.17	413164.93	86643.87	FR
GL	19+16.67															63.57			40.65		7.00		413202.85	86658.54	GL
G	19+16.67																					7.00	413202.97	86651.54	G
GR	19+16.67																						413203.09	86644.54	GR



ELEVATIONS			
POINT	TOP OF SLAB EL.	TOP OF SLAB TO BR. SEAT	BRIDGE SEAT EL.
AL	1239.23	2.17	1237.06
A	1239.30	2.24	1237.06
AR	1239.23	2.17	1237.06
BL	1241.73	1.48	1240.25
B	1241.80	1.55	1240.25
BR	1241.73	1.48	1240.25
CL	1243.48	1.46	1242.02
C	1243.55	1.53	1242.02
CR	1243.48	1.46	1242.02
DL	1245.23	1.50	1243.73
D	1245.30	1.57	1243.73
DR	1245.23	1.50	1243.73
EL	1246.98	1.46	1245.52
E	1247.05	1.53	1245.52
ER	1246.98	1.46	1245.52
FL	1248.73	1.48	1247.25
F	1248.80	1.55	1247.25
FR	1248.73	1.48	1247.25
GL	1251.27		
G	1251.34		
GR	1251.27		

ALL DISTANCES ARE ALONG STRAIGHT LINES BETWEEN WORKING POINTS AND ARE GIVEN IN DECIMALS OF A FOOT.

WORKING POINT LAYOUT - SPANS I THRU 6

AS-BUILT

MAR 14 2001

ENGINEERING

CERTIFIED BY Arvid H. Dantzloff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 19 98

S.A.P. NO. 55-622-34

TITLE: BRIDGE LAYOUT SPANS I THRU 6

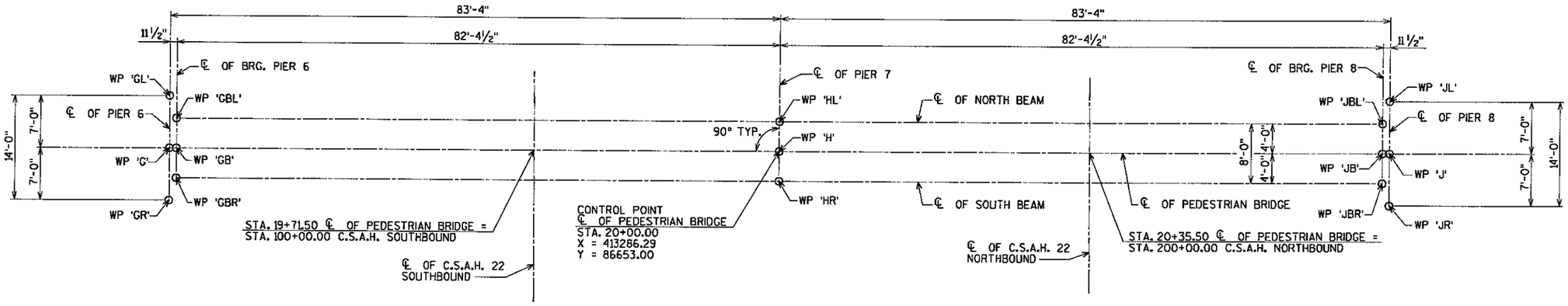
DES: PWD DR: GLD APPROVED: S-7-98
CHK: CBM CHK: CBM

SHEET NO. 6 OF 66 SHEETS

BRIDGE NO. 55562

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

PLOT NAME = P:±2LASI7±0260WKPT.P78
PEN TABLE = ±PLOT72±LASER±smbr.tbl
DATE OF PLOT = 04/09/98
DESIGN FILE IS U:±trbridge±0260wkpt.dgn
DGN LEVELS ON = 1-63



WORKING POINT LAYOUT - SPANS 7 AND 8

POINT	STATION	GBL	GB	GBR	HL	H	HR	JBL	JB	JBR
GBL	19+17.63		4.00		82.38	82.47	82.76		164.80	164.94
GB	19+17.63			4.00		82.38	82.47			
GBR	19+17.63						82.38			
HL	20+00.00					4.00		82.38	82.47	82.76
H	20+00.00						4.00		82.38	82.47
HR	20+00.00									82.38
JBL	20+82.38			164.94			82.76		4.00	
JB	20+82.38									4.00
JBR	20+82.38									

POINT	COORDINATES		ELEVATIONS		
	X-COORD.	Y-COORD.	TOP OF SLAB EL.	TOP OF SLAB TO BR. SEAT	BRIDGE SEAT EL.
GBL	413203.86	86655.55	1251.34	4.40	1246.94
GB	413203.93	86651.55	1251.38	-----	-----
GBR	413204.00	86647.56	1251.34	4.40	1246.94
HL	413286.22	86657.00	1254.74	4.13	1250.61
H	413286.29	86653.00	1254.78	-----	-----
HR	413286.36	86649.00	1254.74	4.13	1250.61
JBL	413368.58	86658.45	1254.33	4.40	1249.93
JB	413368.65	86654.45	1254.37	-----	-----
JBR	413368.72	86650.45	1254.33	4.40	1249.93

TOP OF ROADWAY TO BRIDGE SEAT			
	PIER 6	PIER 7	PIER 8
SLAB THICKNESS	7"	7"	7"
STOOL HEIGHT	2"	2"	2"
BEAM HEIGHT	40"	40"	40"
BEARING ASSEMBLY	3¾"	½"	3¾"
TOTAL	4'-4¾"	4'-1½"	4'-4¾"

ALL DISTANCES ARE ALONG STRAIGHT LINES BETWEEN WORKING POINTS AND ARE GIVEN IN DECIMALS OF A FOOT.

AS-BUILT

MAR 14 2001

ENGINEERING

CERTIFIED BY David H Dantzloff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: BRIDGE LAYOUT SPANS 7 THRU 8

DES: PWD DR: GLD APPROVED: 5-7-98
CHK: CBM CHK: CBM

SHEET NO. 7 OF 66 SHEETS

BRIDGE NO. 55562

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

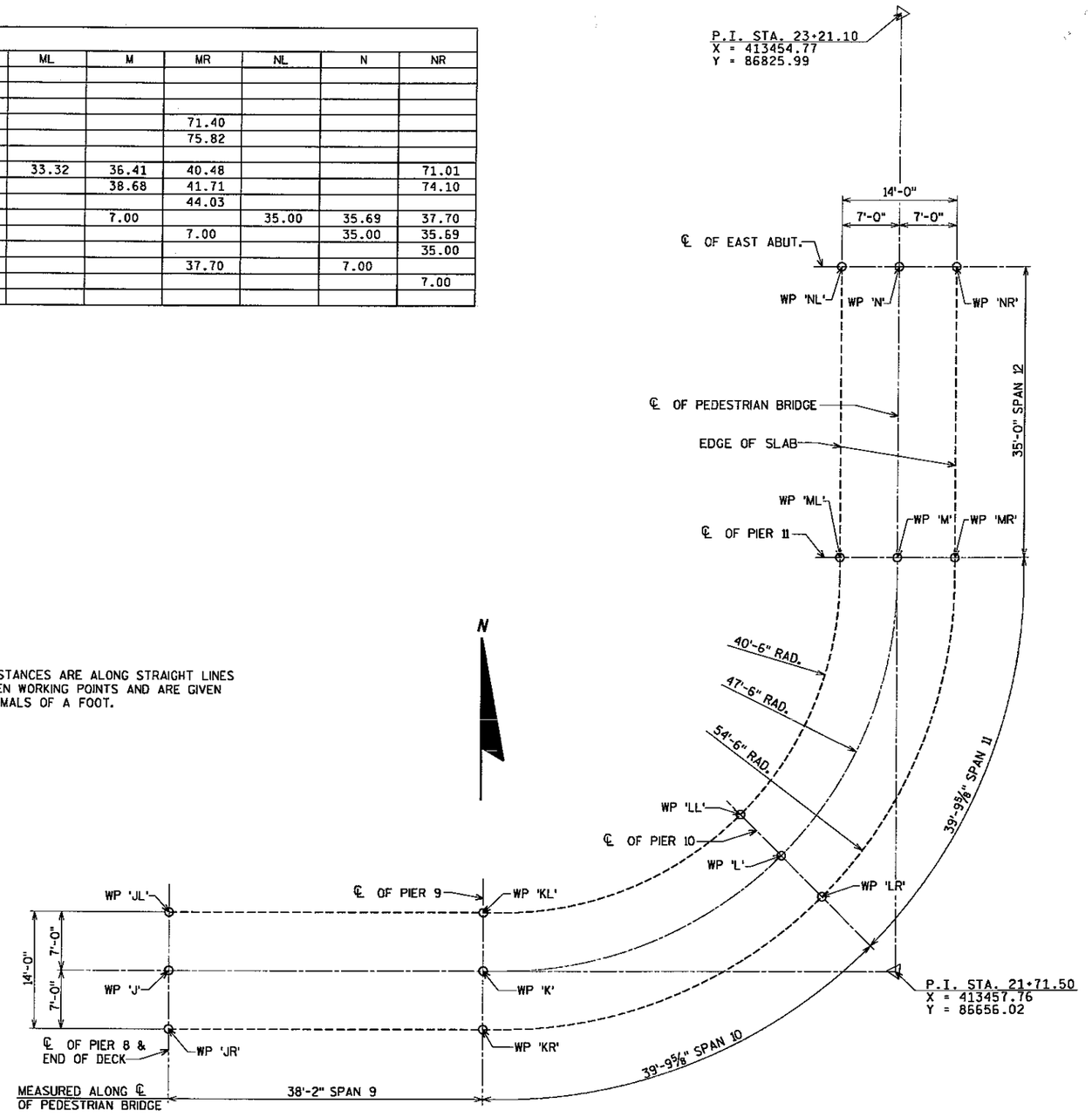
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0260co.dgn

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PEN TABLE = ±PLOT72±LASER±smbr.tbl
DATE OF PLOT = 04/09/98
DESIGN FILE IS U:±trbridge±0260wkpt.dgn
DGN LEVELS ON = 1-63

DIMENSIONS BETWEEN WORKING POINTS																
POINT	STATION	JL	J	JR	KL	K	KR	LL	L	LR	ML	M	MR	NL	N	NR
JL	20+83.33		7.00		38.17	38.80	40.65			79.23						
J	20+83.33					38.17	38.80									
JR	20+83.33						38.17									
KL	21+21.50					7.00		33.32	36.74	41.08			71.40			
K	21+21.50						7.00		38.68	42.01			75.82			
KR	21+21.50									44.02						
LL	21+61.30								7.00		33.32	36.41	40.48			71.01
L	21+61.30									7.00		38.68	41.71			74.10
LR	21+61.30												44.03			
ML	22+01.10											7.00		35.00	35.69	37.70
M	22+01.10												7.00		35.00	35.69
MR	22+01.10															35.00
NL	22+36.10									76.06			37.70		7.00	
N	22+36.10															7.00
NR	22+36.10															

POINT	COORDINATES		ELEVATIONS		
	X-COORD.	Y-COORD.	TOP OF SLAB EL.	TOP OF SLAB TO BR. SEAT	BRIDGE SEAT EL.
JL	413369.49	86661.47	1254.29		
J	413369.61	86654.47	1254.36		
JR	413369.73	86647.47	1254.29		
KL	413407.65	86662.14	1251.78	1.48	1250.30
K	413407.77	86655.14	1251.85	1.55	1250.30
KR	413407.89	86648.14	1251.78	1.48	1250.30
LL	413438.57	86674.55	1249.28	1.46	1247.82
L	413443.61	86669.69	1249.35	1.53	1247.82
LR	413448.64	86664.82	1249.28	1.46	1247.82
ML	413449.88	86705.89	1246.78	1.48	1245.30
M	413456.88	86706.01	1246.85	1.55	1245.30
MR	413463.88	86706.14	1246.78	1.48	1245.30
NL	413449.27	86740.88	1244.28	2.17	1242.11
N	413456.27	86741.01	1244.35	2.24	1242.11
NR	413463.27	86741.13	1244.28	2.17	1242.11

ALL DISTANCES ARE ALONG STRAIGHT LINES BETWEEN WORKING POINTS AND ARE GIVEN IN DECIMALS OF A FOOT.



WORKING POINT LAYOUT - SPANS 9 THRU 12
AS-BUILT

MAR 14 2001

ENGINEERING

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David H Dantzloff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: BRIDGE LAYOUT SPANS 9 THRU 12

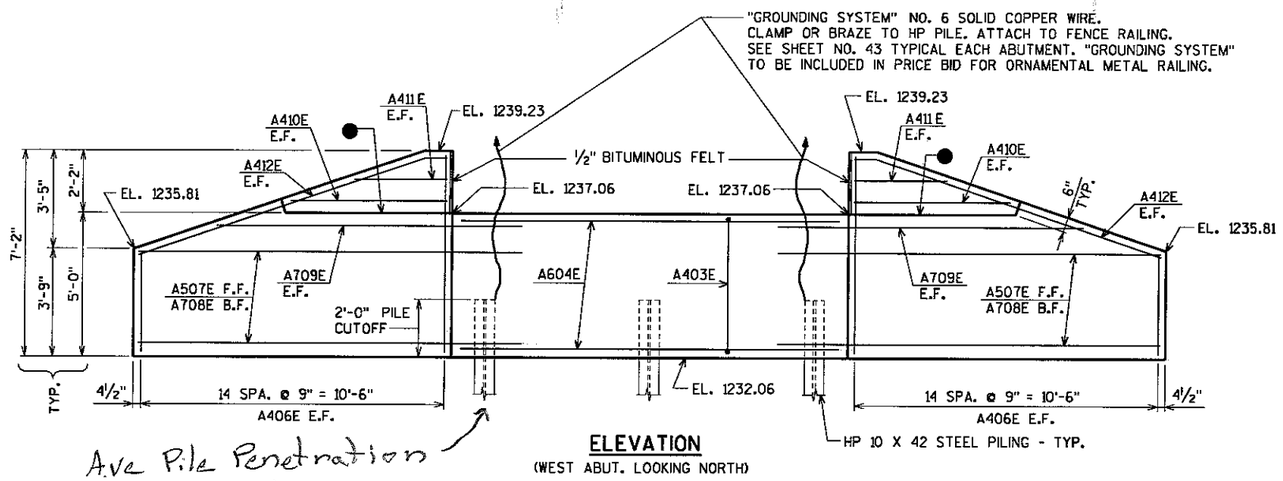
DES: PWD | DR: GLD | APPROVED: 5-7-98
CHK: CBM | CHK: CBM

SHEET NO. 8 OF 66 SHEETS

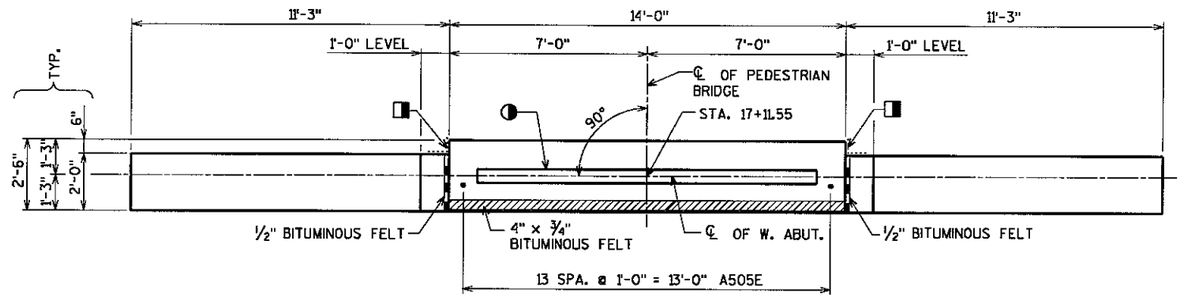
BRIDGE NO. 55562

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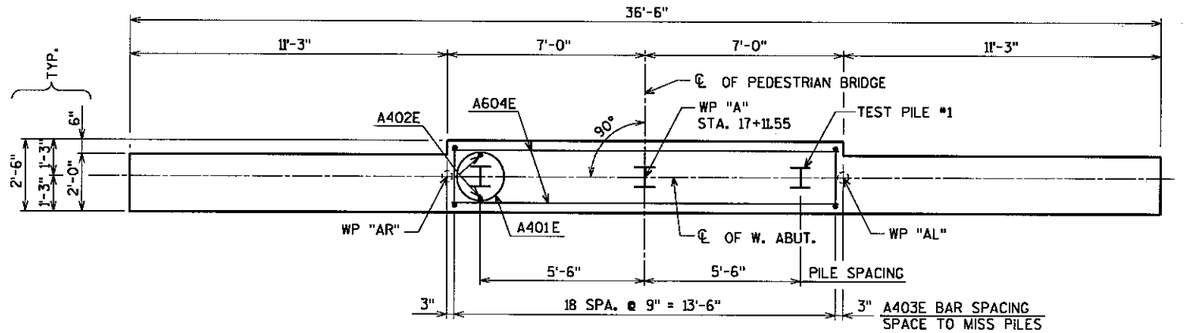
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PEN TABLE = ±PLOT72±LASER±smbr.tbl
DATE OF PLOT = 04/09/98
DESIGN FILE IS u:±trbridge±0260abut.dgn
DGN LEVELS ON = 1-63



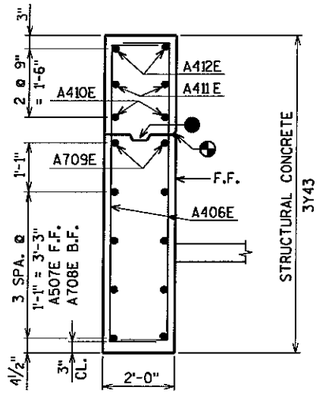
ELEVATION
(WEST ABUT. LOOKING NORTH)



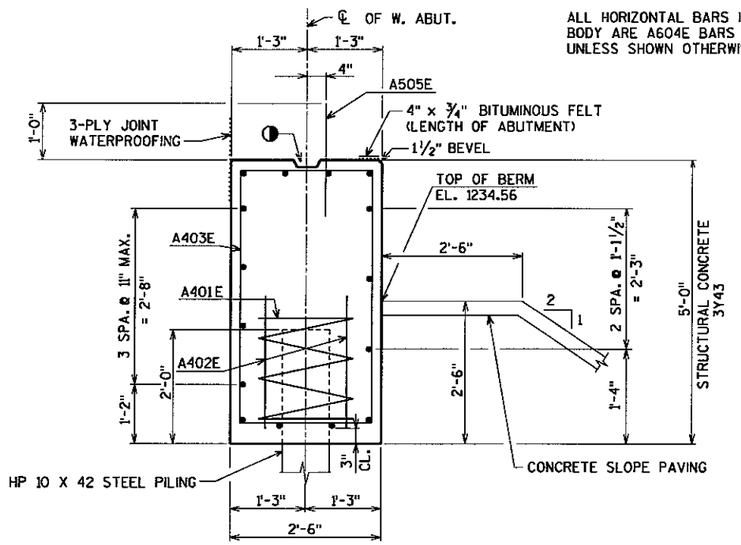
PLAN



PILE LAYOUT



TYP. SECTION THRU WING



ALL HORIZONTAL BARS IN BODY ARE A604E BARS UNLESS SHOWN OTHERWISE.

SECTION THRU BODY

- ● PERMISSIBLE CONST. JOINT & 2" x 4" KEYWAY WITH 3-PLY JOINT WATERPROOFING ON B.F.
- ◑ 2" X 4" KEYWAY
- ◨ 3-PLY JOINT WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING.
- ◔ ¾" 'V' GROOVE ON F.F. OF WING WALL NOT REQUIRED IF CONST. JT. IS NOT USED.

E.F. DENOTES EACH FACE.
B.F. DENOTES BACK FACE.
F.F. DENOTES FRONT FACE.

AS-BUILT

MAR 14 2001

ENGINEERING

CERTIFIED BY David F. Ostrloff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: WEST ABUTMENT

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects Scientists/Surveyors
3433 Oakwood Hills Parkway Eau Claire, WI 54701

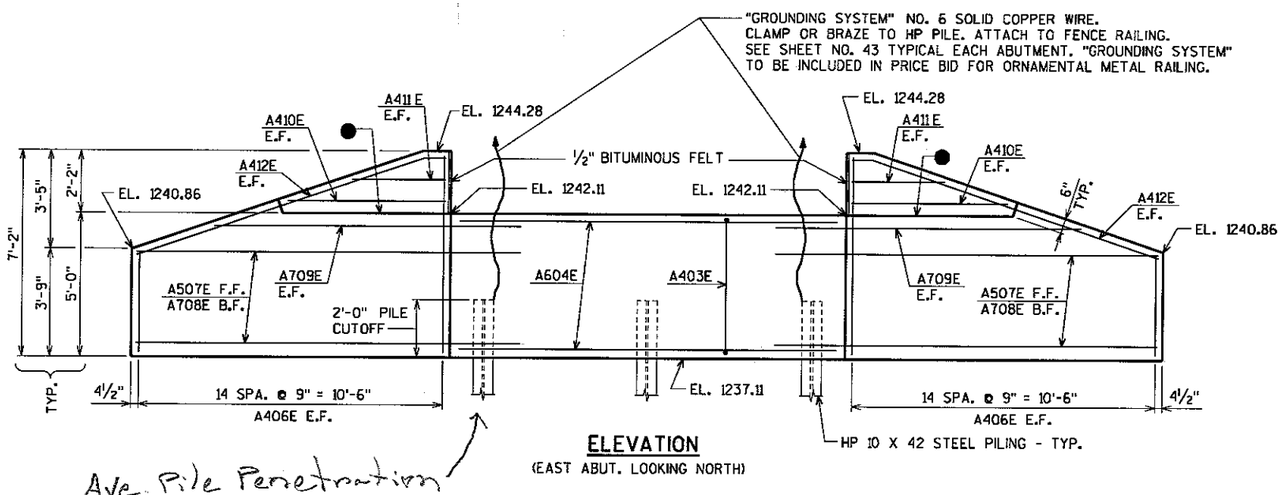
DES: CBM DR: CLS APPROVED: 5-7-98
CHK: RCK CHK: CBM

SHEET NO. 9 OF 66 SHEETS

BRIDGE NO. 55562

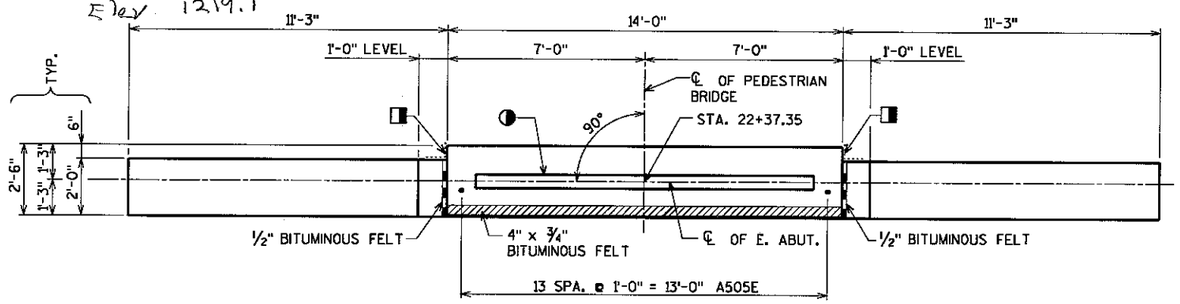
REFERENCE FILES
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PLOT NAME = P:±2LASI7±0260ABEA.PRF
PEN TABLE = ±PLOT72±LASER±smbr.tbl
DATE OF PLOT = 04/09/98
DESIGN FILE IS u:±trbridge±0260abut.dgn
DGN LEVELS ON = 1-63

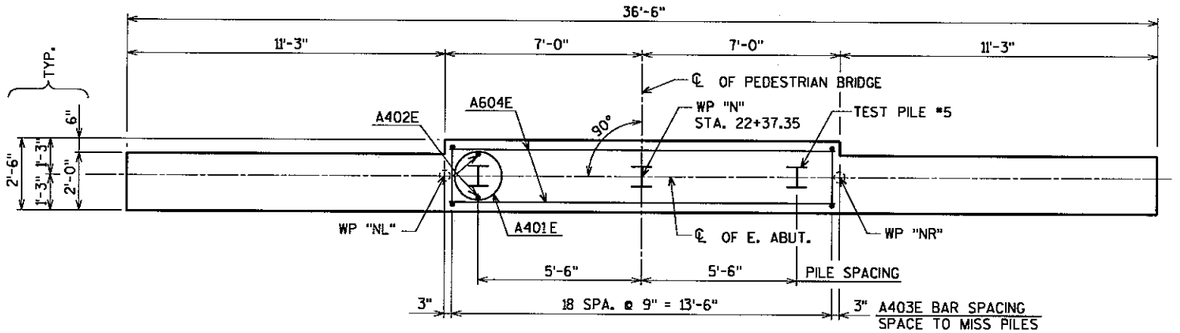


ELEVATION
(EAST ABUT. LOOKING NORTH)

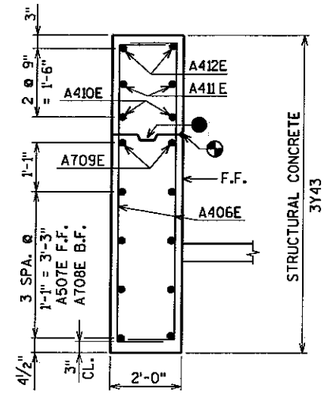
Ave. Pile Penetration
Elev. 1219.1'



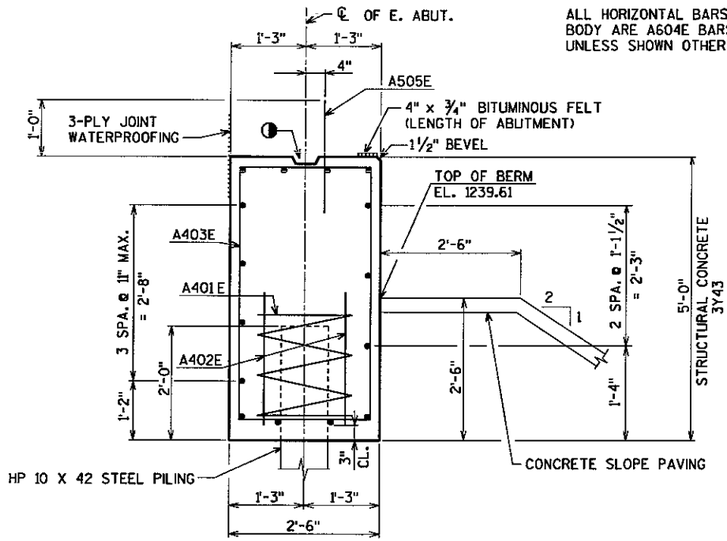
PLAN



PILE LAYOUT



TYP. SECTION THRU WING



ALL HORIZONTAL BARS IN BODY ARE A604E BARS UNLESS SHOWN OTHERWISE.

SECTION THRU BODY

● PERMISSIBLE CONST. JOINT & 2" x 4" KEYWAY WITH 3-PLY JOINT WATERPROOFING ON B.F.

◑ 2" X 4" KEYWAY

◨ 3-PLY JOINT WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING.

◔ ¾" 'V' GROOVE ON F.F. OF WING WALL NOT REQUIRED IF CONST. JT. IS NOT USED.

E.F. DENOTES EACH FACE.
B.F. DENOTES BACK FACE.
F.F. DENOTES FRONT FACE.

AS-BUILT

MAR 14 2001

ENGINEERING

CERTIFIED BY David K. Dentlinger PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: EAST ABUTMENT

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

DES: CBM	DR: CLS	APPROVED: 5-7-98
CHK: RCK	CHK: CBM	

SHEET NO. 10 OF 66 SHEETS

BRIDGE NO. 55562

REFERENCE FILES
DN = 143
mnabhf.dgn

PLOT NAME = P:±2LASI7±0260ABUT.BAR
PEN TABLE = ±PLOT72±LASER±smbr.tbl
DATE OF PLOT = 04/09/98
DESIGN FILE IS u:±trbridge±0260abut.dgn
DGN LEVELS ON = 1-63

SUMMARY OF QUANTITIES FOR BOTH ABUTMENTS

	STRUCTURE CONCRETE (3Y43)	32	CU YD.
	REINFORCEMENT BARS (EPOXY COATED)	2260	POUND
(1)	STEEL H-PILING, DELIVERED 10x42	70	LIN. FT.
(1)	STEEL H-PILING, DRIVEN 10x42	70	LIN. FT.
(6)	CONCRETE SLOPE PAVING	75	SQ. YD.
(2)	STEEL H-TEST PILE 12 FEET LONG	1	EACH
(3)	STEEL H-TEST PILE 30 FEET LONG	1	EACH
(2)	ROCK SOCKET	3	EACH
(4)	1/2" BITUMINOUS FELT	18	SQ. FT.
(4)	3/4" BITUMINOUS FELT	10	SQ. FT.
(4)	3-PLY JOINT WATERPROOFING	37	LIN. FT.
(5)	BENCH MARK	1	EACH
	PILE TIP PROTECTION 10-INCH	6	EACH

(1) DOES NOT INCLUDE TEST PILES.

(2) EAST ABUTMENT ONLY.

(3) WEST ABUTMENT ONLY.

(4) TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS.

(5) COUNTY WILL FURNISH DISK. PAYMENT FOR PLACING TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS.

(6) 55 SQ. YD. FOR EAST ABUTMENT.
20 SQ. YD. FOR WEST ABUTMENT.

COMPUTED PILE LOADS	TONS/PILE
DEAD LOAD	21.2
LIVE LOAD	3.8
DESIGN LOAD	25.0

WEST ABUTMENT

PILE NOTES

1 HP 10 x 42 STEEL TEST PILE 12 FEET LONG.
2 HP 10 x 42 STEEL PILES EST. LENGTH 10 FT.
3 HP 10 x 42 STEEL PILES REQ'D. FOR WEST ABUT.

EAST ABUTMENT

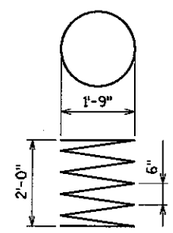
1 HP 10 x 42 STEEL TEST PILE 30 FEET LONG.
2 HP 10 x 42 STEEL PILES EST. LENGTH 25 FT.
3 HP 10 x 42 STEEL PILES REQ'D. FOR EAST ABUT.

MINIMUM PILE PENETRATION BELOW BOTTOM OF ABUTMENT ELEVATION IS 10 FEET.
PILE SPACING SHOWN IS AT BOTTOM OF FOOTING.
FOR PILE SPLICE DETAIL SEE SHEET 45.
ALL PILES SHALL HAVE PILE POINTS.

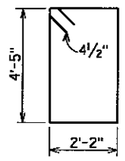
BILL OF REINFORCEMENT ABUTMENTS & WINGWALLS

BAR	WEST ABUT.	EAST ABUT.	LENGTH	SHAPE	LOCATION
A401E	3	3	28'-0"	BENT	ABUT. BODY AT PILES
A402E	6	6	2'-3"	STR.	ABUT. BODY AT PILES
A403E	19	19	13'-8"	BENT	ABUT. BODY VERT.
A604E	15	15	13'-8"	STR.	ABUT. BODY HORIZ.
A505E	14	14	2'-0"	STR.	ABUT. BODY DOWEL
A406E	4 SETS OF 15	4 SETS OF 15	6'-3" TO 9'-7"	BENT	ABUT. WINGWALL VERT. E.F.
A507E	4	4	12'-7"	STR.	ABUT. WINGWALL HORIZ. F.F.
A708E	4	4	13'-7"	STR.	ABUT. WINGWALL HORIZ. B.F.
A709E	2	2	10'-10"	STR.	ABUT. WINGWALL HORIZ. E.F.
A410E	2	2	5'-6"	STR.	ABUT. WINGWALL HORIZ. E.F.
A411E	2	2	3'-3"	STR.	ABUT. WINGWALL HORIZ. E.F.
A412E	2	2	11'-5"	BENT	ABUT. WINGWALL DIAG. E.F.

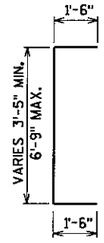
E.F. DENOTES EACH FACE.
B.F. DENOTES BACK FACE.
F.F. DENOTES FRONT FACE.



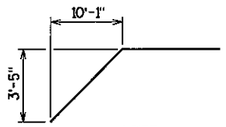
A401E



A403E



A406E



A412E

AS-BUILT

MAR 14 2001

ENGINEERING

CERTIFIED BY David H Dahlstaff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: ABUTMENT, WINGWALL & PILE REINFORCEMENT

DES: CBM DR: CLS APPROVED: 5-7-98
CHK: RCK CHK: CBM

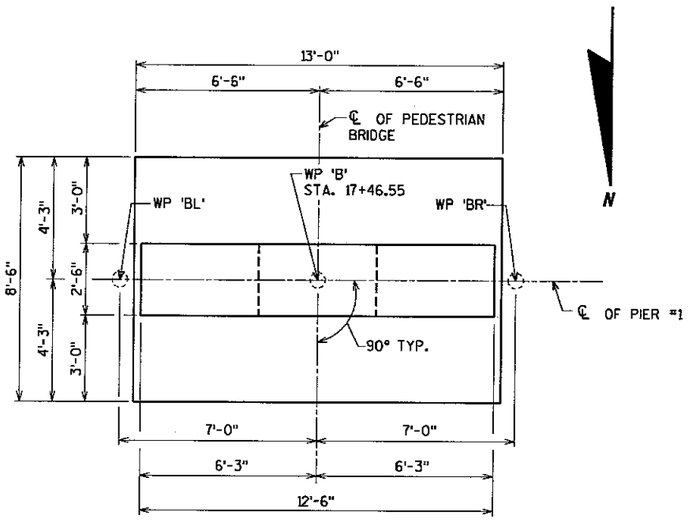
SHEET NO. 11 OF 66 SHEETS

BRIDGE NO. 55562

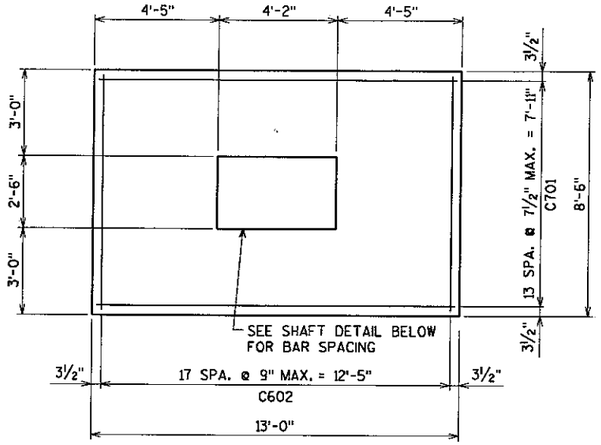
PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

REFERENCE FILES
DN = 1-63
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PLOT NAME = P:±2LAS17±0260P1.PRF
PEN TABLE = ±PLOT72±LASER±smbr.tbl
DATE OF PLOT = 04/09/98
DESIGN FILE IS u:±trbridge±0260p1.dgn
DGN LEVELS ON = 1-63



PLAN VIEW

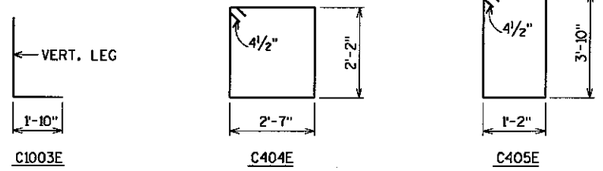


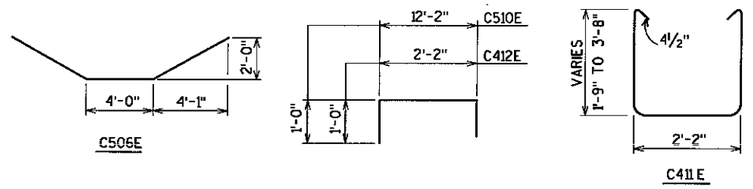
FOOTING & COLUMN SECTION

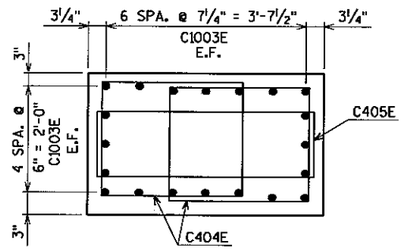
BILL OF REINFORCING FOR PIER #1

BAR	NO.	LENGTH	SHAPE	LOCATION
C701	14	12'-6"	STR.	FOOTING BOTTOM
C602	18	8'-0"	STR.	FOOTING BOTTOM
C1003E	20	15'-3"	BENT	PIER SHAFT DOWEL
C404E	18	10'-0"	BENT	PIER SHAFT TIES HORIZ.
C405E	9	10'-6"	BENT	PIER SHAFT TIES HORIZ.
C506E	2	13'-0"	BENT	PIER CAP HORIZ. E.F.
C507E	2	6'-6"	STR.	PIER CAP HORIZ. E.F.
C508E	2	10'-8"	STR.	PIER CAP HORIZ. E.F.
C509E	2	12'-2"	STR.	PIER CAP HORIZ. E.F.
C510E	6	13'-11"	BENT	PIER CAP HORIZ.
C411E	2 SETS OF 7	6'-2" TO 10'-0"	BENT	PIER CAP TIES VERT.
C412E	19	4'-0"	BENT	PIER CAP TIES VERT.
C513E	12	2'-0"	STR.	PIER CAP DOWELS

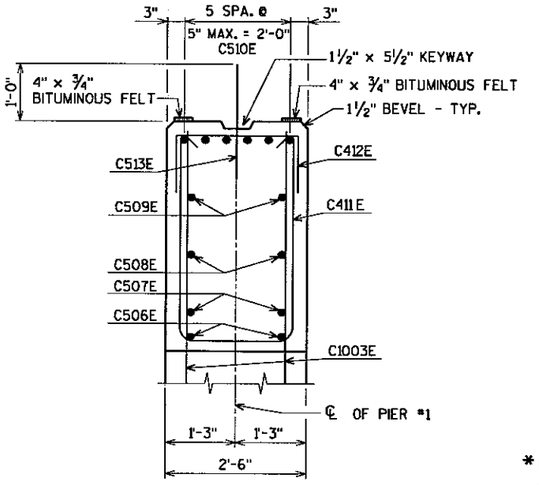
E.F. DENOTES EACH FACE







SHAFT DETAIL



SECTION A

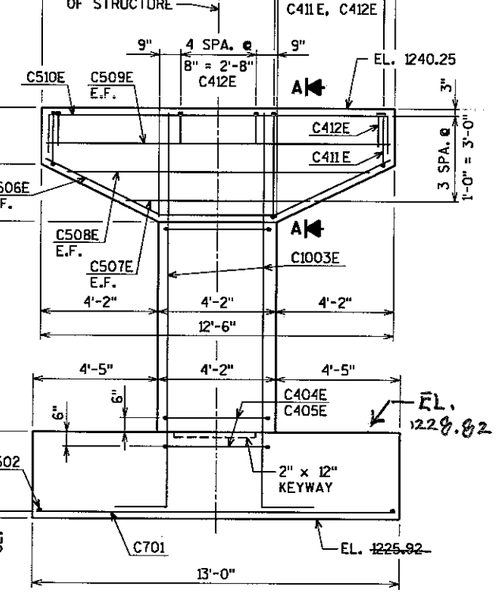
SUMMARY OF QUANTITIES FOR PIER #1

STRUCTURE CONCRETE (1A43)	12.5	CU. YD.
STRUCTURE CONCRETE (3Y43)	7.0	CU. YD.
REINFORCEMENT BARS (EPOXY COATED)	1820	POUND
REINFORCEMENT BARS	570	POUND
(1) ¾" BITUMINOUS FELT	9	SQ. FT.

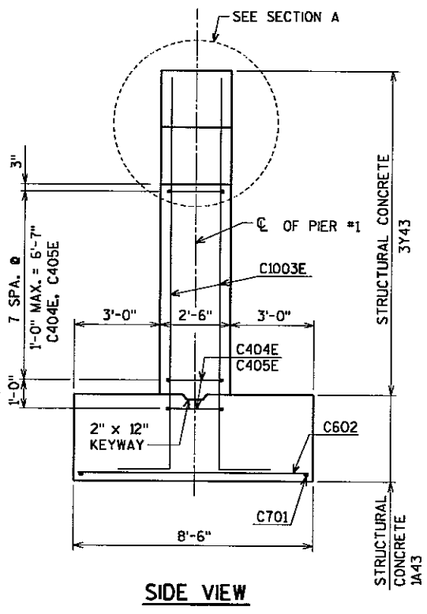
(1) TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS.

COMPUTED FOOTING LOADS	TONS/S.F.
DEAD LOAD	1.2
LIVE LOAD + OVERTURNING	2.2
DESIGN LOAD	3.4

AASHTO GROUP IV LOADING CONTROLS



ELEVATION



SIDE VIEW

* PIER COLUMN HEIGHT MAY BE INCREASED A MAXIMUM OF 1'-0" (IF REQ'D. TO REACH SOUND MATERIAL) WITHOUT REDESIGNING PIER.

AS-BUILT
MAR 14 2001
ENGINEERING

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David H. Gentzkow
PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 19 98

S.A.P. NO. 55-622-34

TITLE: PIER #1

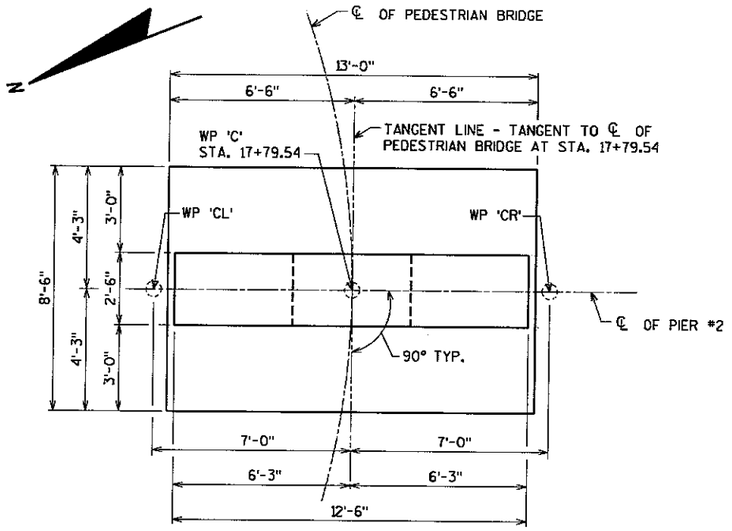
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CHK: RCK CHK: CBM

SHEET NO. 12 OF 66 SHEETS

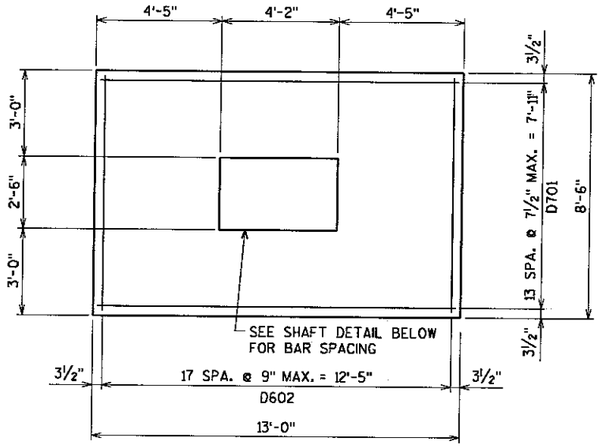
BRIDGE NO. 55562

REFERENCE FILES
mmm01.dgn
ON = 1-63

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DGN LEVELS ON = 1-63



PLAN VIEW

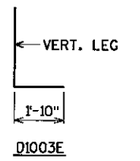


FOOTING & COLUMN SECTION

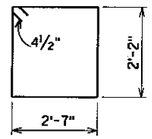
BILL OF REINFORCING FOR PIER #2

BAR	NO.	LENGTH	SHAPE	LOCATION
D701	14	12'-6"	STR.	FOOTING BOTTOM
D602	18	8'-0"	STR.	FOOTING BOTTOM
D1003E	20	17'-0"	BENT	PIER SHAFT DOWEL
D404E	22	10'-0"	BENT	PIER SHAFT TIES HORIZ.
D405E	11	10'-6"	BENT	PIER SHAFT TIES HORIZ.
D506E	2	13'-0"	BENT	PIER CAP HORIZ. E.F.
D507E	2	6'-6"	STR.	PIER CAP HORIZ. E.F.
D508E	2	10'-8"	STR.	PIER CAP HORIZ. E.F.
D509E	2	12'-2"	STR.	PIER CAP HORIZ. E.F.
D510E	6	13'-11"	BENT	PIER CAP HORIZ.
D411E	2 SETS OF 7	6'-2" TO 10'-0"	BENT	PIER CAP TIES VERT.
D412E	19	4'-0"	BENT	PIER CAP TIES VERT.

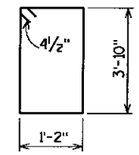
E.F. DENOTES EACH FACE



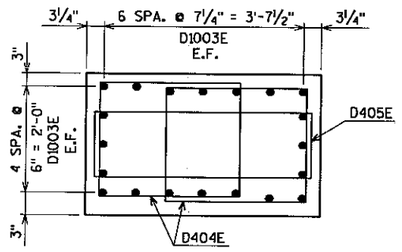
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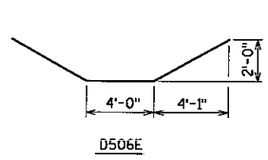
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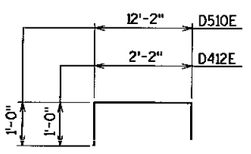
D405E

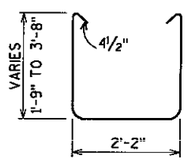


SHAFT DETAIL

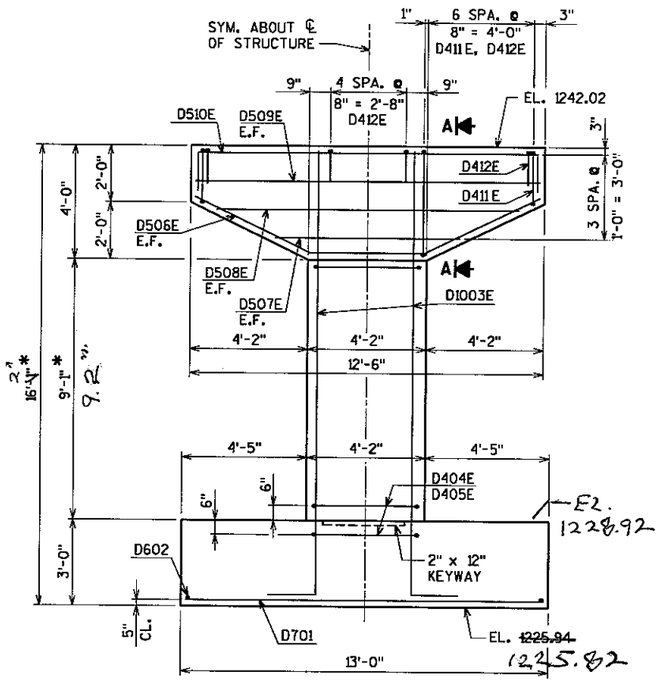


D506E

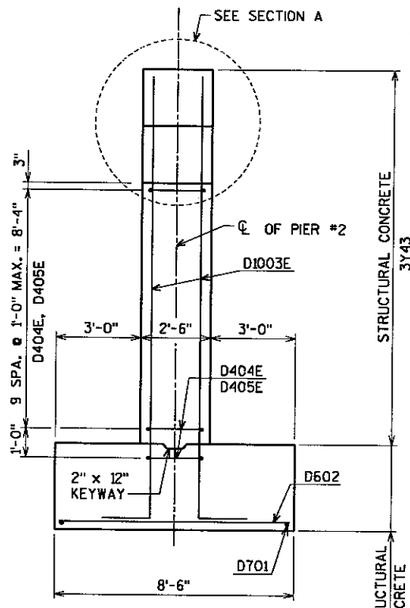




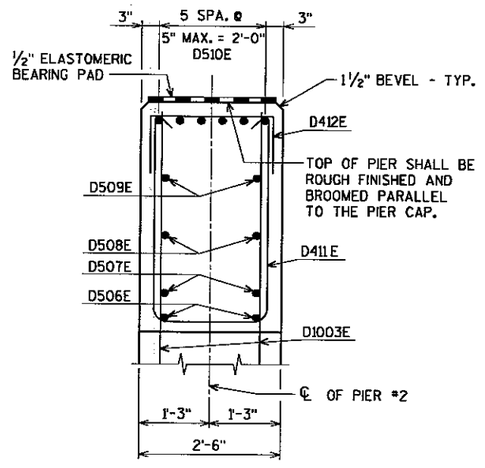
D411E



ELEVATION



SIDE VIEW



SECTION A

SUMMARY OF QUANTITIES FOR PIER #2

STRUCTURE CONCRETE (1A43)	12.5	CU. YD.
STRUCTURE CONCRETE (3Y43)	7.5	CU. YD.
REINFORCEMENT BARS (EPOXY COATED)	1990	POUND
REINFORCEMENT BARS	570	POUND

COMPUTED FOOTING LOADS	TONS/S.F.
DEAD LOAD	1.2
LIVE LOAD + OVERTURNING	2.7
DESIGN LOAD	3.9

AASHTO GROUP IV LOADING CONTROLS AS-BUILT

MAR 14 2001

ENGINEERING

* PIER COLUMN HEIGHT MAY BE INCREASED A MAXIMUM OF 1'-0" (IF REQ'D. TO REACH SOUND MATERIAL) WITHOUT REDESIGNING PIER.

PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David A Dahlhoff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: PIER #2

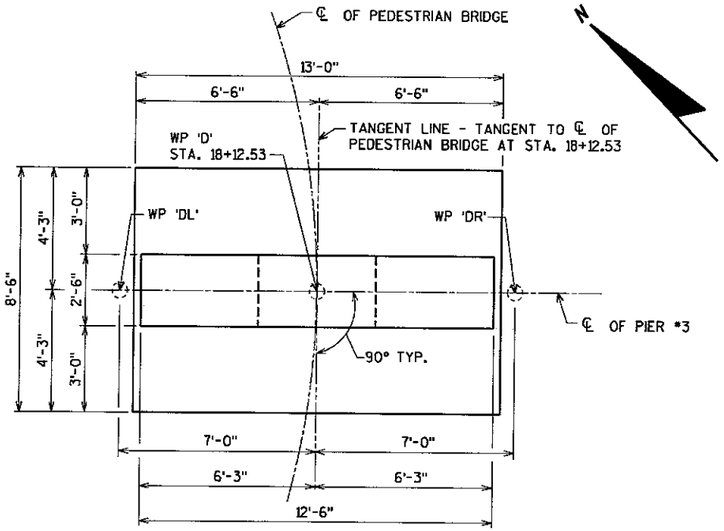
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CHK: RCK	CHK: CBM	

SHEET NO. 13 OF 66 SHEETS

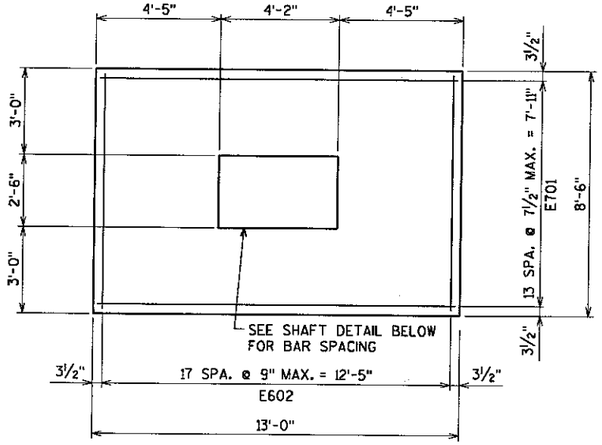
BRIDGE NO. 55562

REFERENCE FILES
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PEN TABLE = ±PLOT72±LASER±smbr.tbl
DATE OF PLOT = 04/09/98
DESIGN FILE IS u:±trbridge±0260p3.dgn
DGN LEVELS ON = 1-63



PLAN VIEW

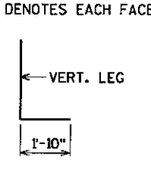


FOOTING & COLUMN SECTION

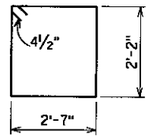
BILL OF REINFORCING FOR PIER #3

BAR	NO.	LENGTH	SHAPE	LOCATION
E701	14	12'-6"	STR.	FOOTING BOTTOM
E602	18	8'-0"	STR.	FOOTING BOTTOM
E1003E	20	18'-9"	BENT	PIER SHAFT DOWEL
E404E	26	10'-0"	BENT	PIER SHAFT TIES HORIZ.
E405E	13	10'-6"	BENT	PIER SHAFT TIES HORIZ.
E506E	2	13'-0"	BENT	PIER CAP HORIZ. E.F.
E507E	2	6'-6"	STR.	PIER CAP HORIZ. E.F.
E508E	2	10'-8"	STR.	PIER CAP HORIZ. E.F.
E509E	2	12'-2"	STR.	PIER CAP HORIZ. E.F.
E510E	6	13'-11"	BENT	PIER CAP HORIZ.
E411E	2 SETS OF 7	6'-2" TO 10'-0"	BENT	PIER CAP TIES VERT.
E412E	19	4'-0"	BENT	PIER CAP TIES VERT.

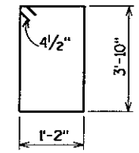
E.F. DENOTES EACH FACE



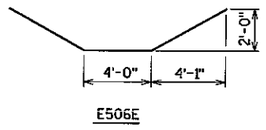
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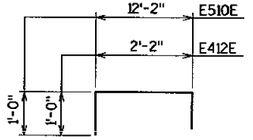
E404E

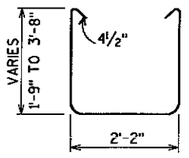


E405E

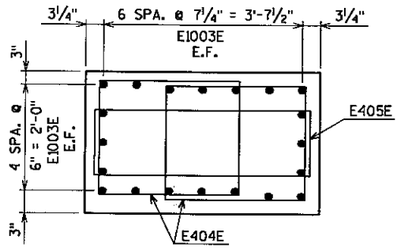


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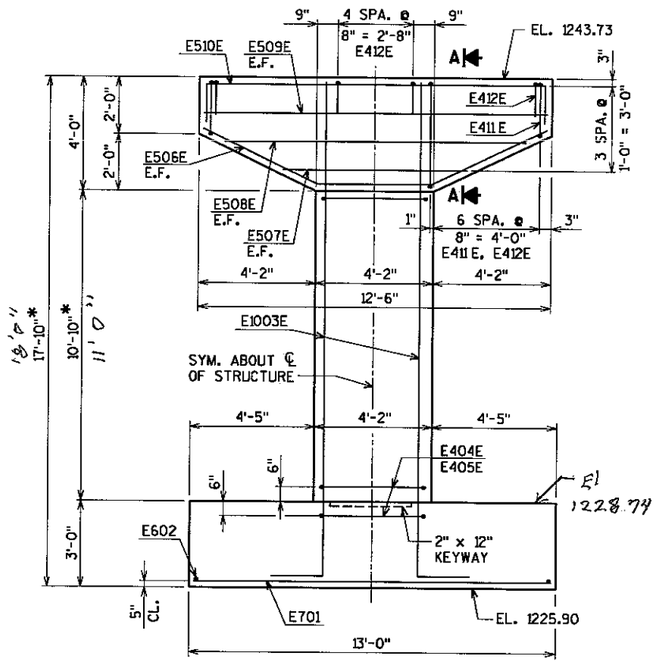




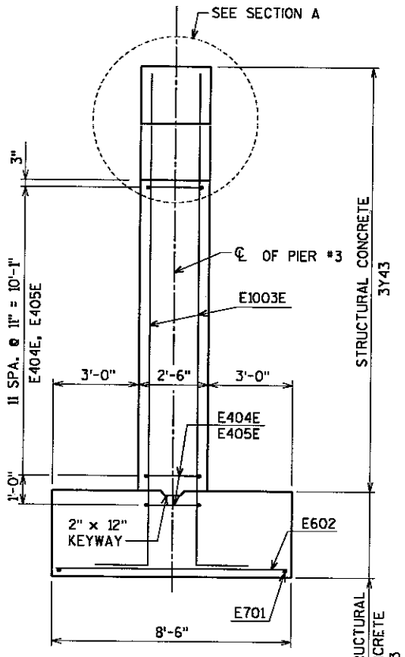
E411E



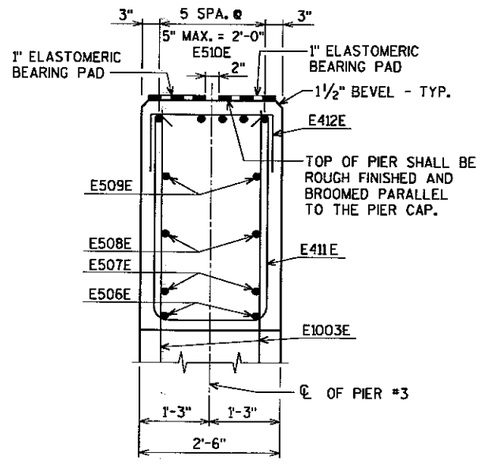
SHAFT DETAIL



ELEVATION



SIDE VIEW



SECTION A

SUMMARY OF QUANTITIES FOR PIER #3

STRUCTURE CONCRETE (1A43)	12.5 CU. YD.
STRUCTURE CONCRETE (3Y43)	8.0 CU. YD.
REINFORCEMENT BARS (EPOXY COATED)	2180 POUND
REINFORCEMENT BARS	570 POUND

COMPUTED FOOTING LOADS	TONS/S.F.
DEAD LOAD	1.2
LIVE LOAD + OVERTURNING	2.2
DESIGN LOAD	3.4

AASHTO GROUP IV LOADING CONTROLS

AS-BUILT

MAR 14 2001

* PIER COLUMN HEIGHT MAY BE INCREASED A MAXIMUM OF 1'-0" (IF REQ'D. TO REACH SOUND MATERIAL) WITHOUT REDESIGNING PIER.

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David R. Christoph PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: PIER #3

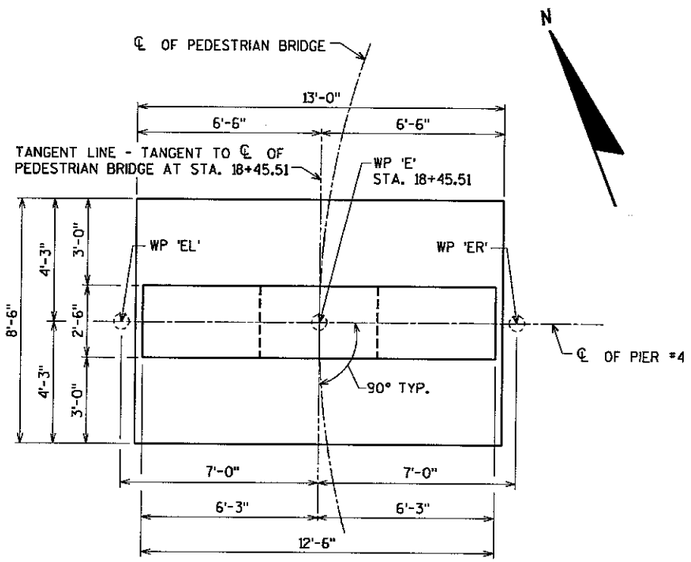
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CHK: RCK CHK: CBM

SHEET NO. 14 OF 66 SHEETS

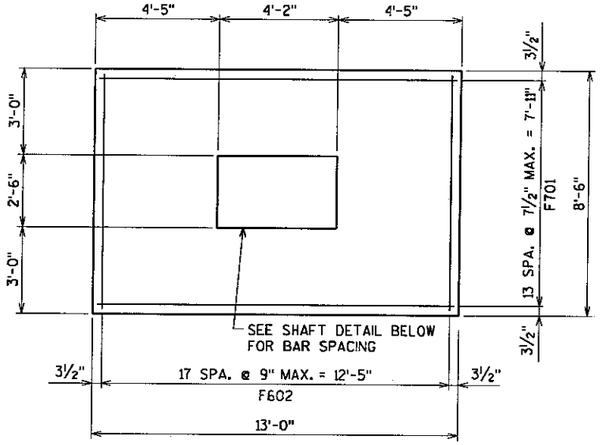
BRIDGE NO. 55562

REFERENCE FILES
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DATE OF PLOT = 04/10/98
DESIGN FILE IS u:±trbridge±0260p3.dgn
DGN LEVELS ON = 1-63



PLAN VIEW

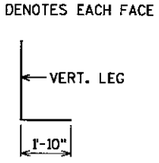


FOOTING & COLUMN SECTION

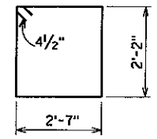
BILL OF REINFORCING FOR PIER #4

BAR	NO.	LENGTH	SHAPE	LOCATION
F701	14	12'-6"	STR.	FOOTING BOTTOM
F602	18	8'-0"	STR.	FOOTING BOTTOM
F1003E	20	20'-6"	BENT	PIER SHAFT DOWEL
F404E	28	10'-0"	BENT	PIER SHAFT TIES HORIZ.
F405E	14	10'-6"	BENT	PIER SHAFT TIES HORIZ.
F506E	2	13'-0"	BENT	PIER CAP HORIZ. E.F.
F507E	2	6'-6"	STR.	PIER CAP HORIZ. E.F.
F508E	2	10'-8"	STR.	PIER CAP HORIZ. E.F.
F509E	2	12'-2"	STR.	PIER CAP HORIZ. E.F.
F510E	6	13'-11"	BENT	PIER CAP HORIZ.
F411E	2 SETS OF 7	6'-2" TO 10'-0"	BENT	PIER CAP TIES VERT.
F412E	19	4'-0"	BENT	PIER CAP TIES VERT.

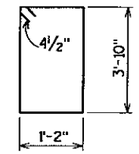
E.F. DENOTES EACH FACE



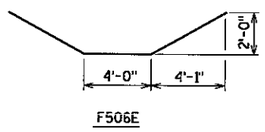
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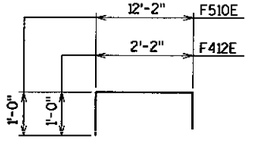
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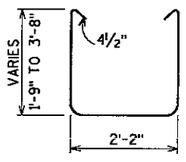


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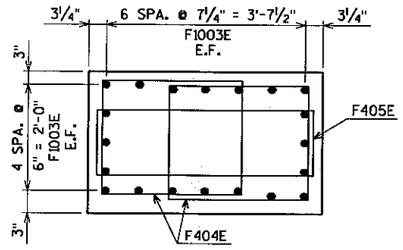


F506E

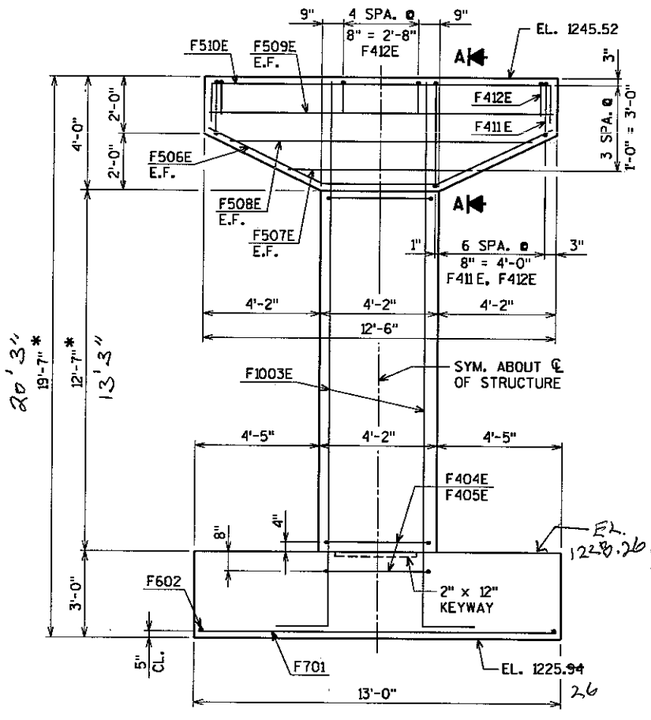




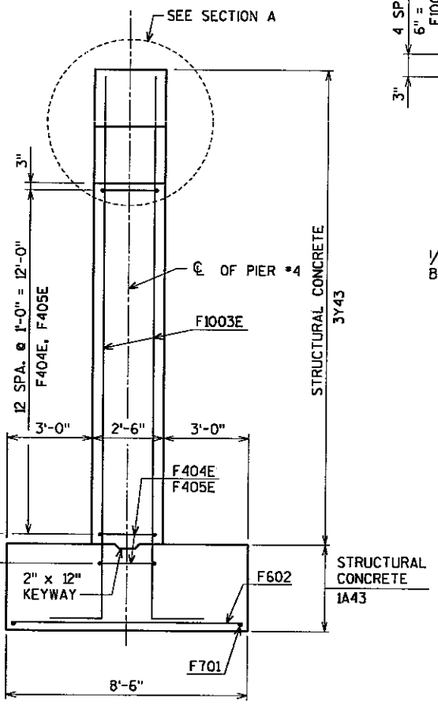
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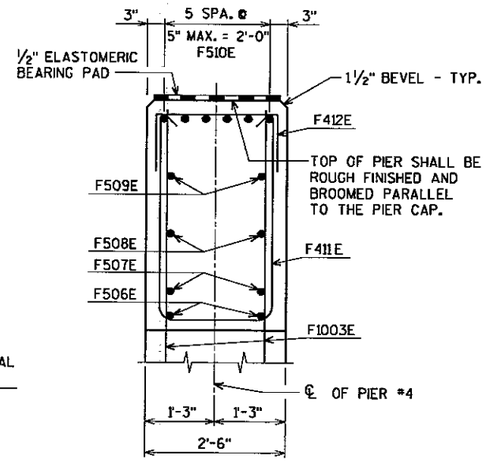
SHAFT DETAIL



ELEVATION



SIDE VIEW



SECTION A

SUMMARY OF QUANTITIES FOR PIER #4

STRUCTURE CONCRETE (1A43)	12.5	CU. YD.
STRUCTURE CONCRETE (3Y43)	9.0	CU. YD.
REINFORCEMENT BARS (EPOXY COATED)	2350	POUND
REINFORCEMENT BARS	570	POUND

COMPUTED FOOTING LOADS	TONS/S.F.
DEAD LOAD	1.2
LIVE LOAD + OVERTURNING	2.5
DESIGN LOAD	3.7

AASHTO GROUP IV LOADING CONTROLS

AS-BUILT

MAR 14 2001

ENGINEERING

* PIER COLUMN HEIGHT MAY BE INCREASED A MAXIMUM OF 1'-0" (IF REQ'D. TO REACH SOUND MATERIAL) WITHOUT REDESIGNING PIER.

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David A Dantzloff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: PIER #4

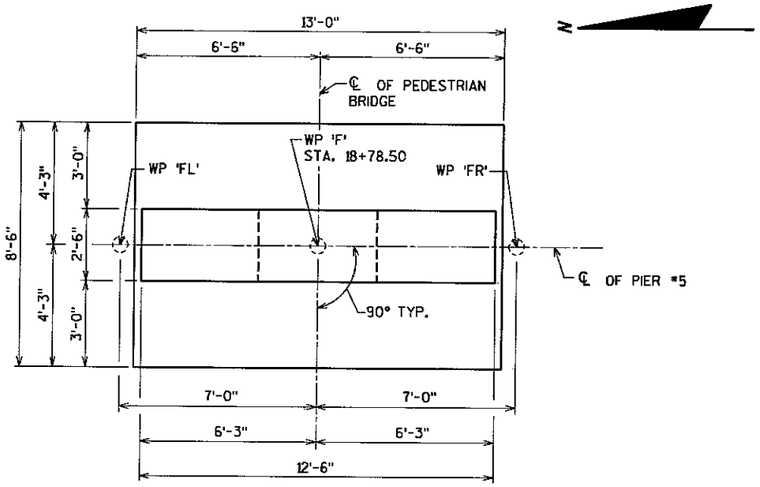
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CHK: RCK CHK: CBM

SHEET NO. 15 OF 66 SHEETS

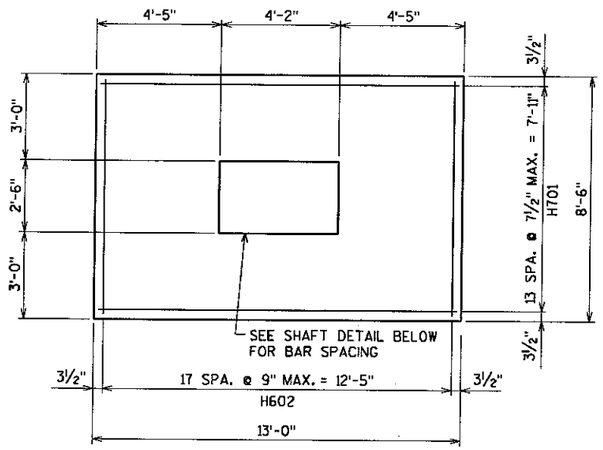
BRIDGE NO. 55562

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DGN LEVELS ON = 1-63



PLAN VIEW

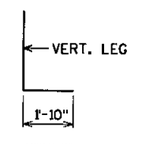


FOOTING & COLUMN SECTION

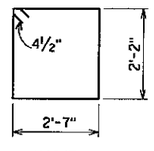
BILL OF REINFORCING FOR PIER #5

BAR	NO.	LENGTH	SHAPE	LOCATION
H701	14	12'-6"	STR.	FOOTING BOTTOM
H602	18	8'-0"	STR.	FOOTING BOTTOM
H1003E	20	22'-3"	BENT	PIER SHAFT DOWEL
H404E	32	10'-0"	BENT	PIER SHAFT TIES HORIZ.
H405E	16	10'-6"	BENT	PIER SHAFT TIES HORIZ.
H506E	2	13'-0"	BENT	PIER CAP HORIZ. E.F.
H507E	2	6'-6"	STR.	PIER CAP HORIZ. E.F.
H508E	2	10'-8"	STR.	PIER CAP HORIZ. E.F.
H509E	2	12'-2"	STR.	PIER CAP HORIZ. E.F.
H510E	6	13'-11"	BENT	PIER CAP HORIZ.
H411E	2 SETS OF 7	6'-2" TO 10'-0"	BENT	PIER CAP TIES VERT.
H412E	19	4'-0"	BENT	PIER CAP TIES VERT.
H513E	12	2'-0"	STR.	PIER CAP DOWELS

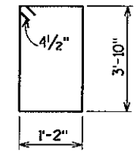
E.F. DENOTES EACH FACE



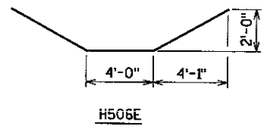
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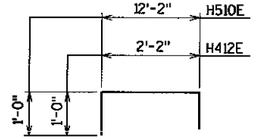
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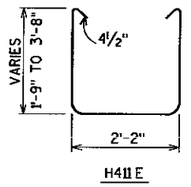


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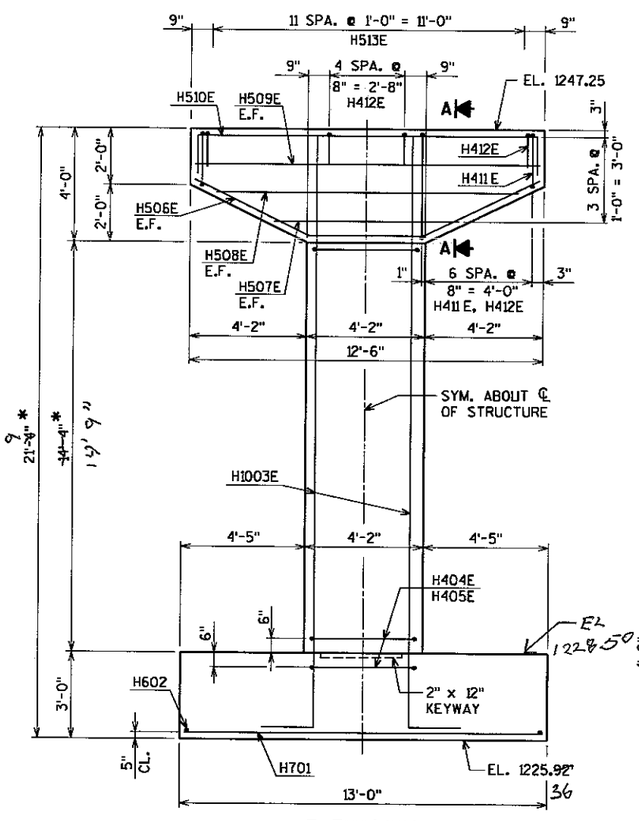


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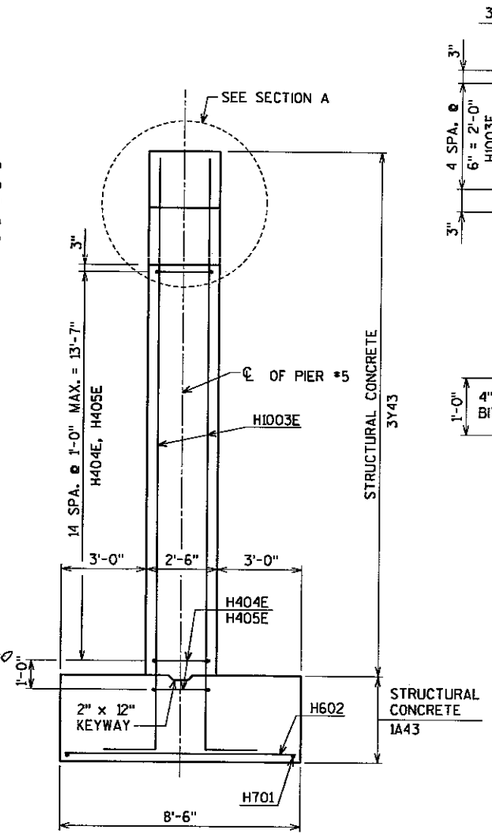




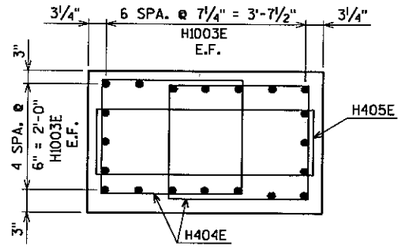
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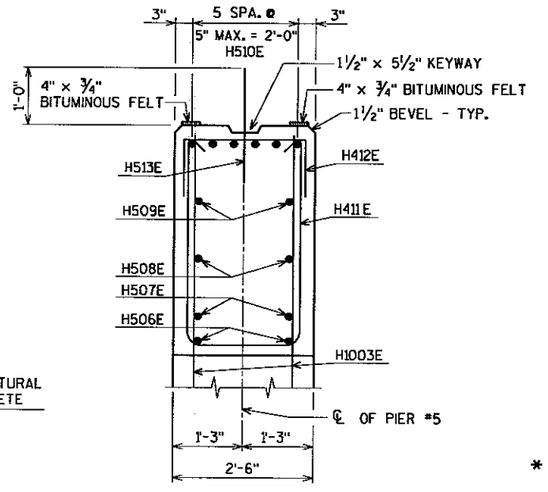
ELEVATION



SIDE VIEW



SHAFT DETAIL



SECTION A

SUMMARY OF QUANTITIES FOR PIER #5

STRUCTURE CONCRETE (1A43)	12.5	CU. YD.
STRUCTURE CONCRETE (3Y43)	9.5	CU. YD.
REINFORCEMENT BARS (EPOXY COATED)	2570	POUND
REINFORCEMENT BARS	570	POUND
① ¾" BITUMINOUS FELT	9	SQ. FT.

① TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS.

COMPUTED FOOTING LOADS	TONS/S.F.
DEAD LOAD	1.2
LIVE LOAD + OVERTURNING	1.1
DESIGN LOAD	2.3

AASHTO GROUP IV LOADING CONTROLS

AS-BUILT

MAR 14 2001

* PIER COLUMN HEIGHT MAY BE INCREASED A MAXIMUM OF 1'-0" (IF REQ'D. TO REACH SOUND MATERIAL) WITHOUT REDESIGNING PIER.

TRANSPORTATION ENGINEERING BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David H. Dantzler
PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: PIER #5

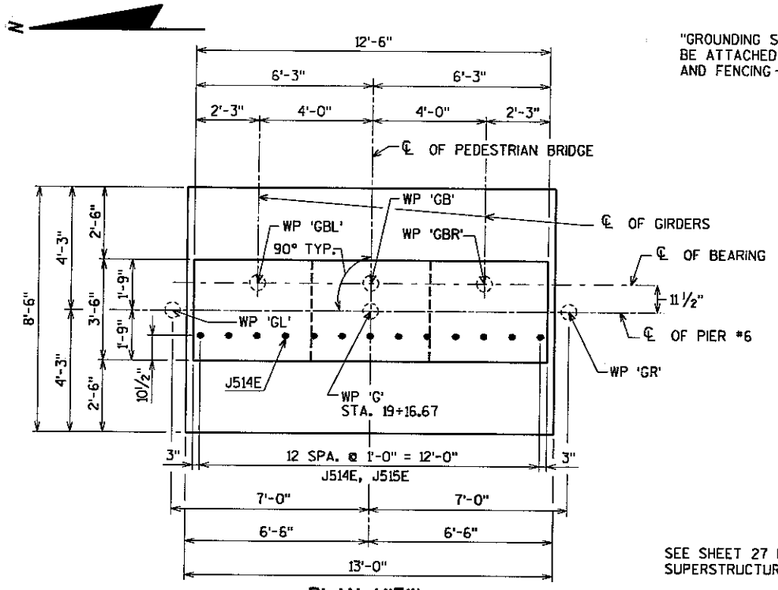
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CHK: RCK CHK: CBM

SHEET NO. 16 OF 66 SHEETS

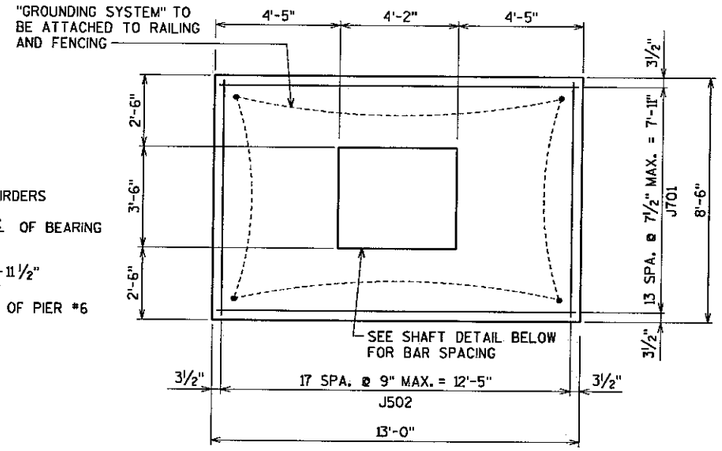
BRIDGE NO. 55562

REFERENCE FILES
DN = 1-63
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DGN LEVELS ON = 1-63

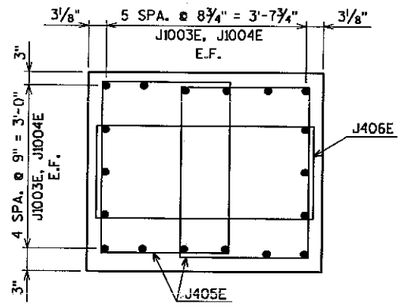


PLAN VIEW

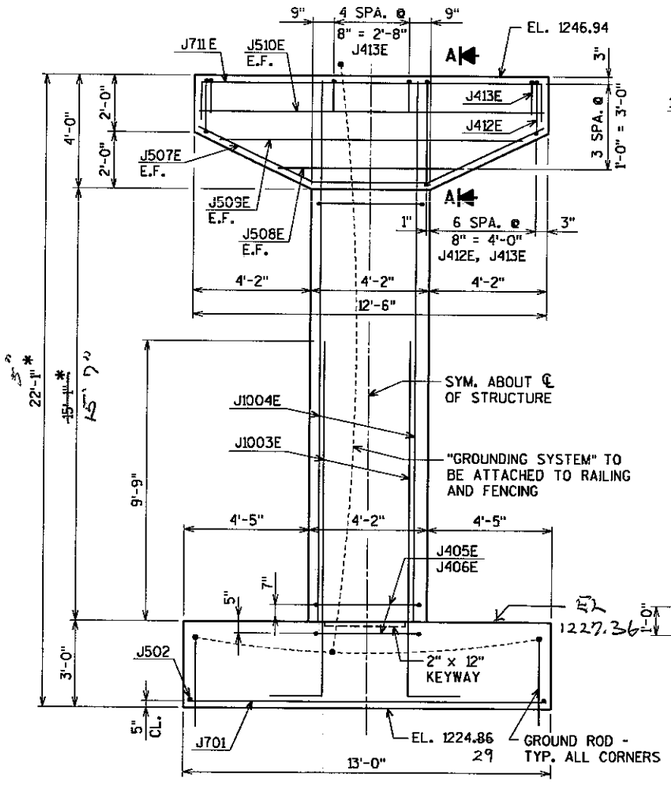


FOOTING & COLUMN SECTION

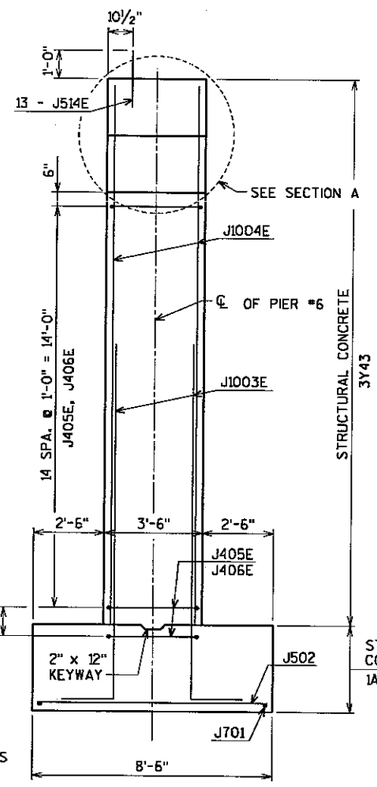
SEE SHEET 27 FOR SUPERSTRUCTURE DETAILS.



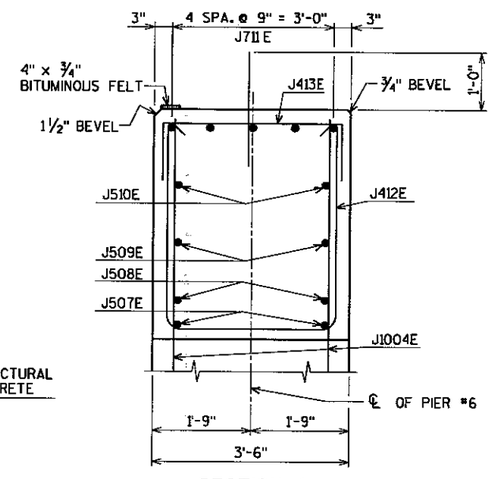
SHAFT DETAIL



ELEVATION



SIDE VIEW

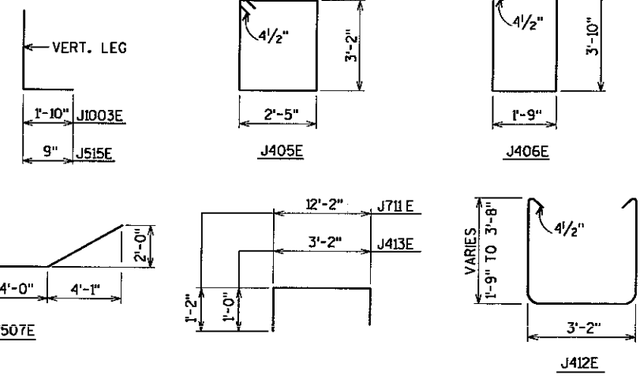


SECTION A

BILL OF REINFORCING FOR PIER #6

BAR	NO.	LENGTH	SHAPE	LOCATION
J701	14	12'-6"	STR.	FOOTING BOTTOM
J502	18	8'-0"	STR.	FOOTING BOTTOM
J1003E	18	13'-10"	BENT	PIER SHAFT DOWEL
J1004E	18	18'-11"	STR.	PIER SHAFT VERT.
J405E	32	11'-8"	BENT	PIER SHAFT TIES HORIZ.
J406E	16	11'-8"	BENT	PIER SHAFT TIES HORIZ.
J507E	2	13'-0"	BENT	PIER CAP HORIZ. E.F.
J508E	2	6'-6"	STR.	PIER CAP HORIZ. E.F.
J509E	2	10'-8"	STR.	PIER CAP HORIZ. E.F.
J510E	2	12'-2"	STR.	PIER CAP HORIZ. E.F.
J711E	5	14'-3"	BENT	PIER CAP HORIZ.
J412E	2 SETS OF 7	7'-2" TO 11'-0"	BENT	PIER CAP TIES VERT.
J413E	19	5'-0"	BENT	PIER CAP TIES VERT.
J514E	13	2'-0"	STR.	PIER CAP VERT. INTO SUPER.

E.F. DENOTES EACH FACE



SUMMARY OF QUANTITIES FOR PIER #6

STRUCTURE CONCRETE (1A43)	12.5	CU. YD.
STRUCTURE CONCRETE (3Y43)	14.0	CU. YD.
REINFORCEMENT BARS (EPOXY COATED)	3320	POUND
REINFORCEMENT BARS	510	POUND
① ¾" BITUMINOUS FELT	5	SQ. FT.

① TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS.

COMPUTED FOOTING LOADS	TONS/S.F.
DEAD LOAD	1.5
LIVE LOAD + OVERTURNING	2.3
DESIGN LOAD	3.8

AASHTO GROUP V LOADING CONTROLS

AS-BUILT

MAR 14 2001

ENGINEERING

* PIER COLUMN HEIGHT MAY BE INCREASED A MAXIMUM OF 1'-0" (IF REQ'D. TO REACH SOUND MATERIAL) WITHOUT REDESIGNING PIER.

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David K. Dantzloff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: PIER #6

DES: RCK DR: CLS CHK: CBM CHK: CBM APPROVED: 5-7-98

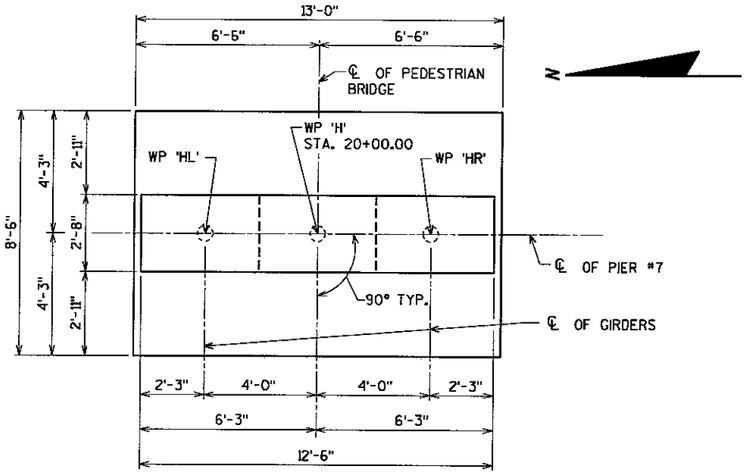
SHEET NO. 17 OF 66 SHEETS

BRIDGE NO. 55562

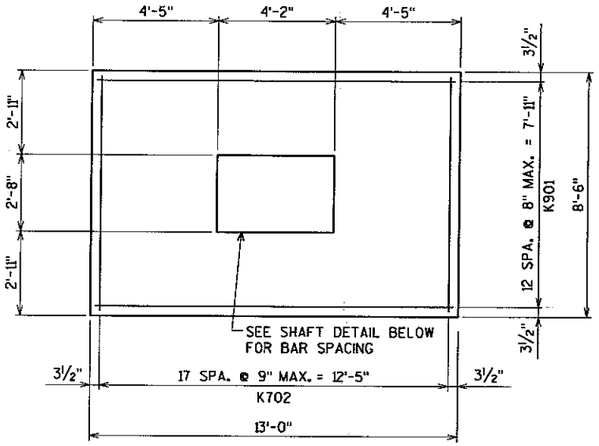
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PLAN VIEW

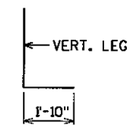


FOOTING & COLUMN SECTION

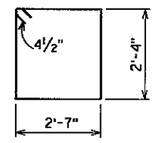
BILL OF REINFORCING FOR PIER #7

BAR	NO.	LENGTH	SHAPE	LOCATION
K901	13	12'-6"	STR.	FOOTING BOTTOM
K702	18	8'-0"	STR.	FOOTING BOTTOM
K1003E	20	13'-10"	BENT	PIER SHAFT DOWEL
K1004E	20	22'-6"	STR.	PIER SHAFT VERT.
K405E	40	10'-4"	BENT	PIER SHAFT TIES HORIZ.
K406E	20	10'-8"	BENT	PIER SHAFT TIES HORIZ.
K507E	2	13'-0"	BENT	PIER CAP HORIZ. E.F.
K508E	2	6'-6"	STR.	PIER CAP HORIZ. E.F.
K509E	2	10'-8"	STR.	PIER CAP HORIZ. E.F.
K510E	2	12'-2"	STR.	PIER CAP HORIZ. E.F.
K811E	5	14'-7"	BENT	PIER CAP HORIZ.
K512E	2 SETS OF 12	6'-3" TO 9'-10"	BENT	PIER CAP TIES VERT.
K513E	36	4'-2"	BENT	PIER CAP TIES VERT.
K514E	5	2'-0"	STR.	PIER CAP DOWELS

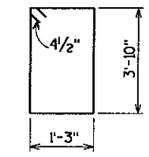
E.F. DENOTES EACH FACE



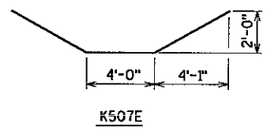
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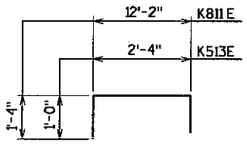
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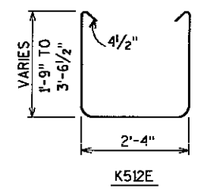


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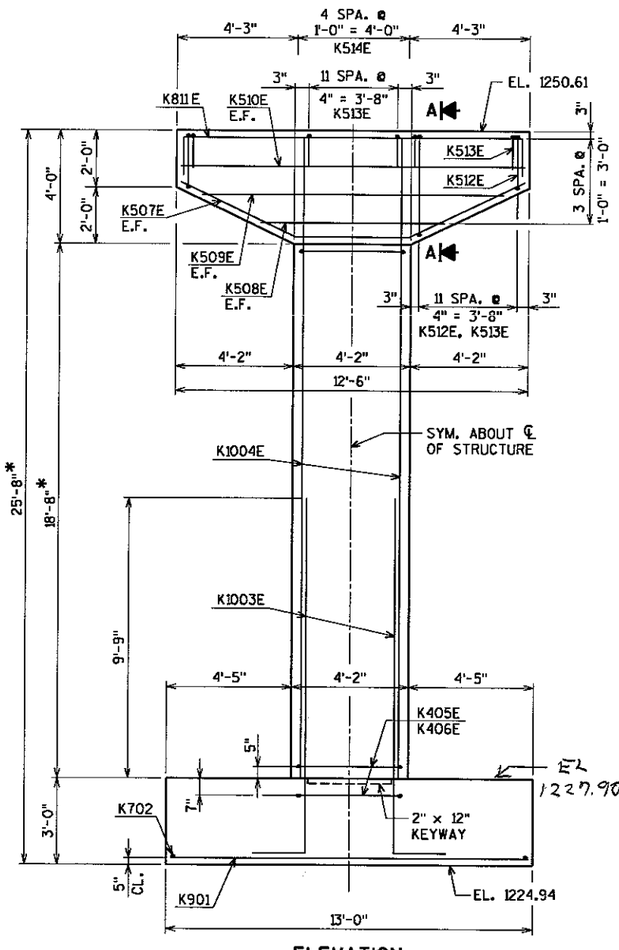


K507E

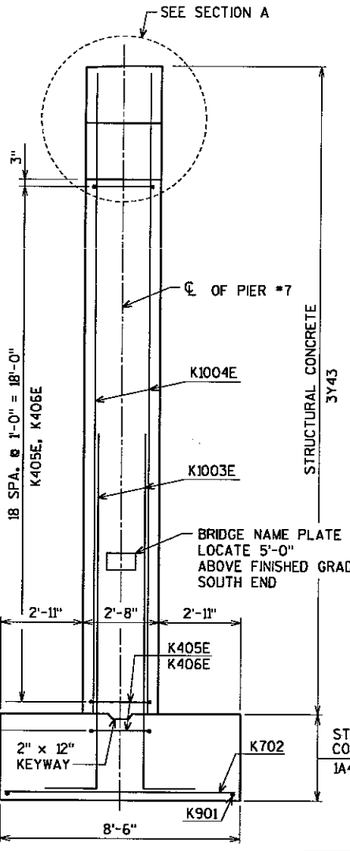




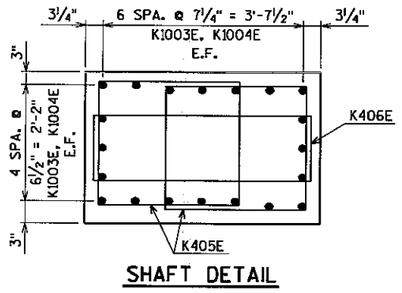
K512E



ELEVATION



SIDE VIEW



SHAFT DETAIL

SECTION A

* PIER COLUMN HEIGHT MAY BE INCREASED A MAXIMUM OF 1'-0" (IF REQ'D. TO REACH SOUND MATERIAL) WITHOUT REDESIGNING PIER.

SUMMARY OF QUANTITIES FOR PIER #7

STRUCTURE CONCRETE (1A43)	12.5 CU. YD.
STRUCTURE CONCRETE (3Y43)	12.0 CU. YD.
REINFORCEMENT BARS (EPOXY COATED)	4200 POUND
REINFORCEMENT BARS	850 POUND

COMPUTED FOOTING LOADS	TONS/S.F.
DEAD LOAD	2.1
LIVE LOAD + OVERTURNING	3.6
DESIGN LOAD	5.7

AASHTO GROUP II LOADING CONTROLS

AS-BUILT

MAR 14 2001

ENGINEERING

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David H. Bentzloff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

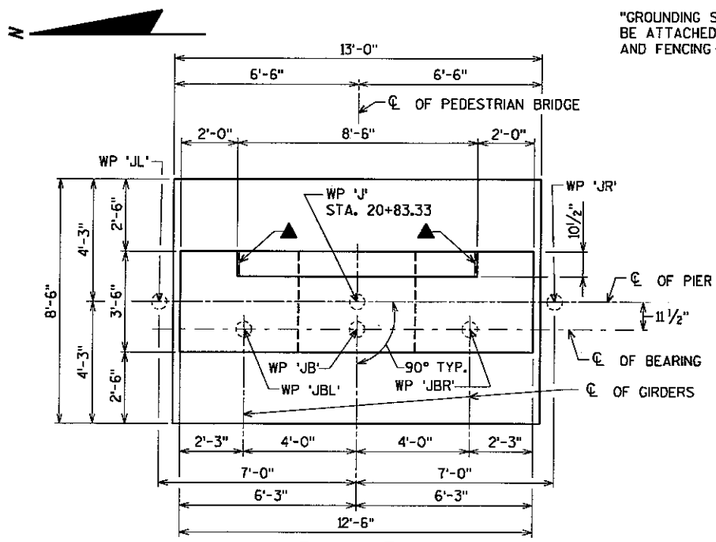
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DES: PWD | DR: CLS | APPROVED: 5-7-98
CHK: CBM | CHK: CBM

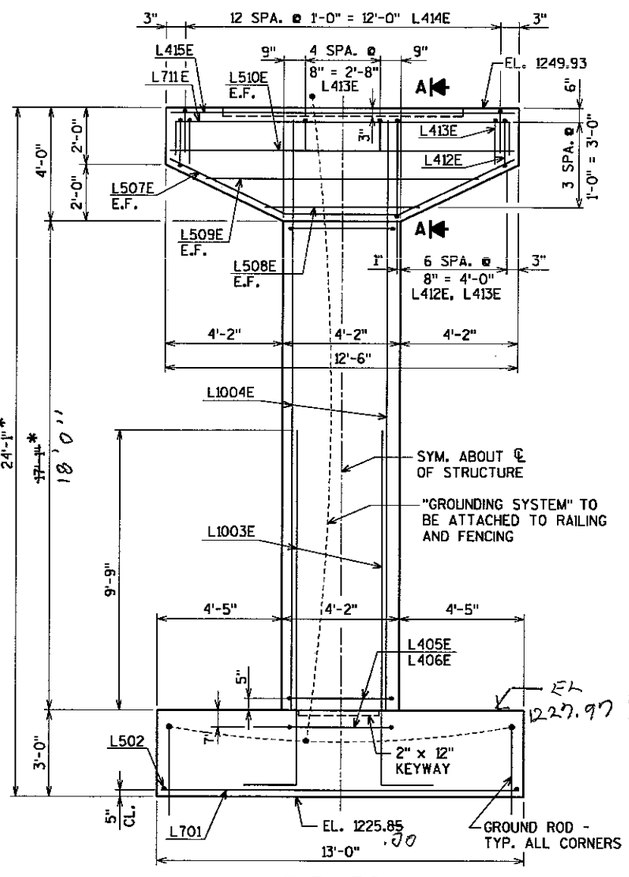
SHEET NO. 18 OF 66 SHEETS

BRIDGE NO. 55562

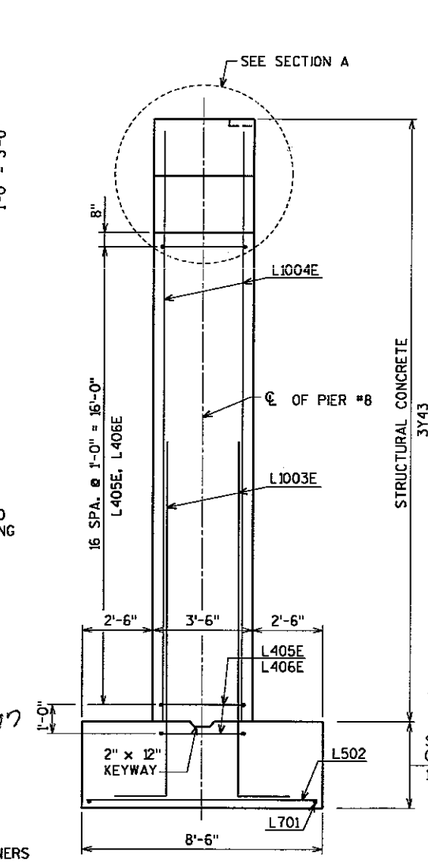
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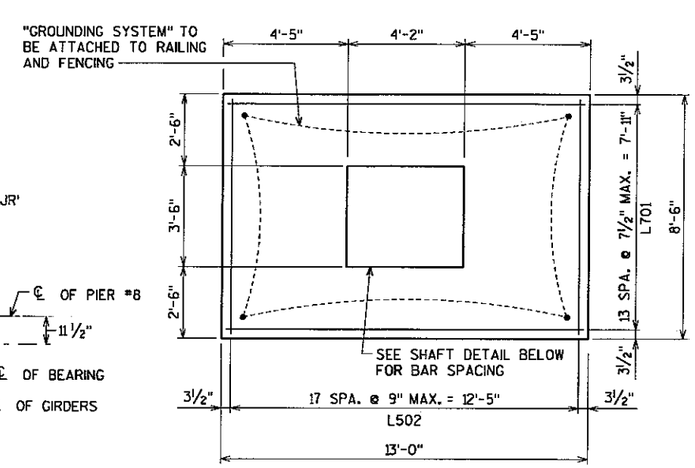
PLAN VIEW



ELEVATION



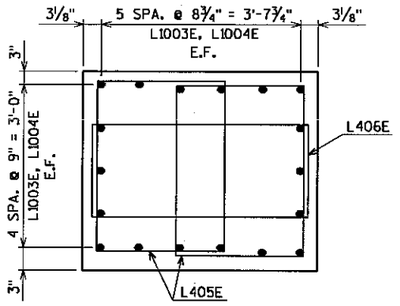
SIDE VIEW



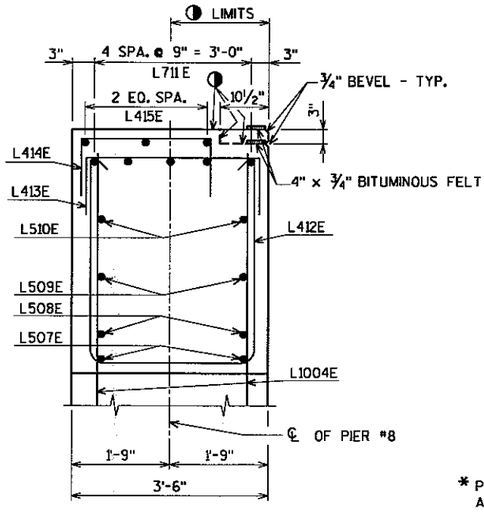
FOOTING & COLUMN SECTION

◑ STEEL TROWEL TOP SURFACE OF EAST HALF OF TOP OF PIER. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER EAST HALF OF TOP OF PIER BEFORE PLACING SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".

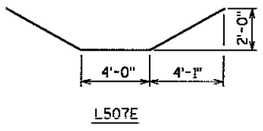
▲ ¾" BITUMINOUS FELT ON VERT. FACE ONLY.



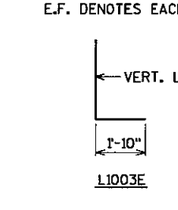
SHAFT DETAIL



SECTION A

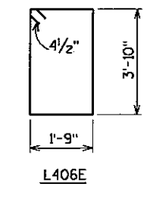


L507E

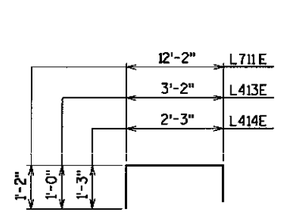


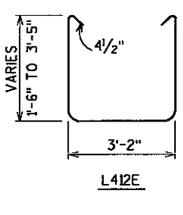
L405E

L1003E



L406E





L412E

BILL OF REINFORCING FOR PIER #8

BAR	NO.	LENGTH	SHAPE	LOCATION
L701	14	12'-6"	STR.	FOOTING BOTTOM
L502	18	8'-0"	STR.	FOOTING BOTTOM
L1003E	18	13'-10"	BENT	PIER SHAFT DOWEL
L1004E	18	20'-11"	STR.	PIER SHAFT VERT.
L405E	36	11'-8"	BENT	PIER SHAFT TIES HORIZ.
L406E	18	11'-8"	BENT	PIER SHAFT TIES HORIZ.
L507E	2	13'-0"	BENT	PIER CAP HORIZ. E.F.
L508E	2	5'-6"	STR.	PIER CAP HORIZ. E.F.
L509E	2	9'-8"	STR.	PIER CAP HORIZ. E.F.
L510E	2	12'-2"	STR.	PIER CAP HORIZ. E.F.
L711E	5	14'-3"	BENT	PIER CAP HORIZ.
L412E	2 SETS OF 7	6'-9" TO 10'-7"	BENT	PIER CAP TIES VERT.
L413E	19	5'-0"	BENT	PIER CAP TIES VERT.
L414E	13	4'-7"	BENT	PIER CAP ⊗ NOTCH VERT.
L415E	3	12'-6"	STR.	PIER CAP ⊗ NOTCH HORIZ.

E.F. DENOTES EACH FACE

SUMMARY OF QUANTITIES FOR PIER #8

STRUCTURE CONCRETE (1A43)	12.5 CU. YD.
STRUCTURE CONCRETE (3Y43)	15.0 CU. YD.
REINFORCEMENT BARS (EPOXY COATED)	3550 POUND
REINFORCEMENT BARS	510 POUND
① ¾" BITUMINOUS FELT	5 SQ. FT.

① TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS.

COMPUTED FOOTING LOADS	TONS/S.F.
DEAD LOAD	1.5
LIVE LOAD + OVERTURNING	2.3
DESIGN LOAD	3.8

AASHTO GROUP V LOADING CONTROLS

AS-BUILT

MAR 14 2001

ENGINEERING

* PIER COLUMN HEIGHT MAY BE INCREASED A MAXIMUM OF 1'-0" (IF REQ'D. TO REACH SOUND MATERIAL) WITHOUT REDESIGNING PIER.

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects Scientists/Surveyors
3433 Oakwood Hills Parkway Eau Claire, WI 54701

CERTIFIED BY David H Dantzloff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 19 98

S.A.P. NO. 55-622-34

TITLE: PIER #8

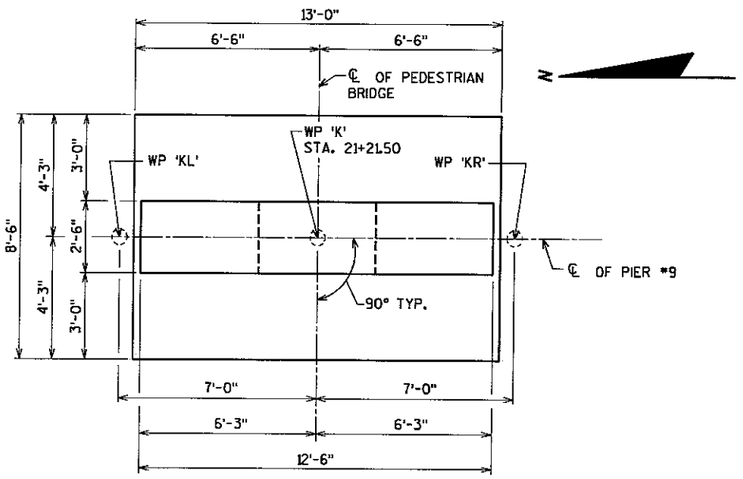
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CHK: CBM CHK: CBM

SHEET NO. 19 OF 66 SHEETS

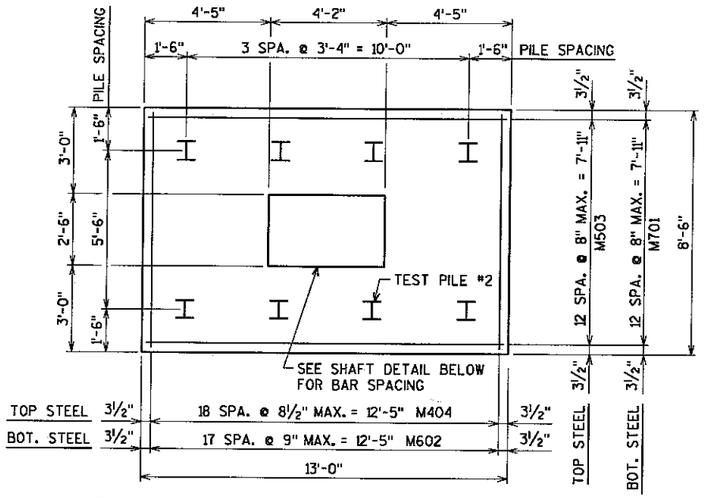
BRIDGE NO. 55562

REFERENCE FILES
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DGN LEVELS ON = 1-63



PLAN VIEW

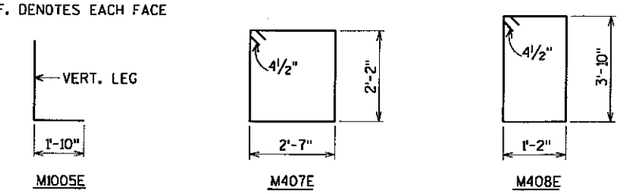


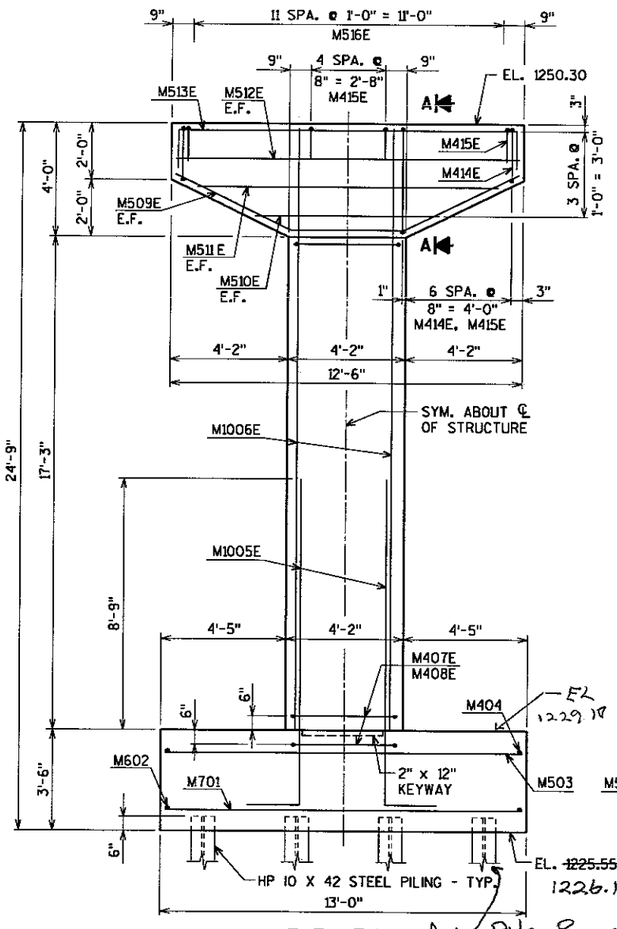
FOOTING, PILE LAYOUT & COLUMN SECTION

BILL OF REINFORCING FOR PIER #9

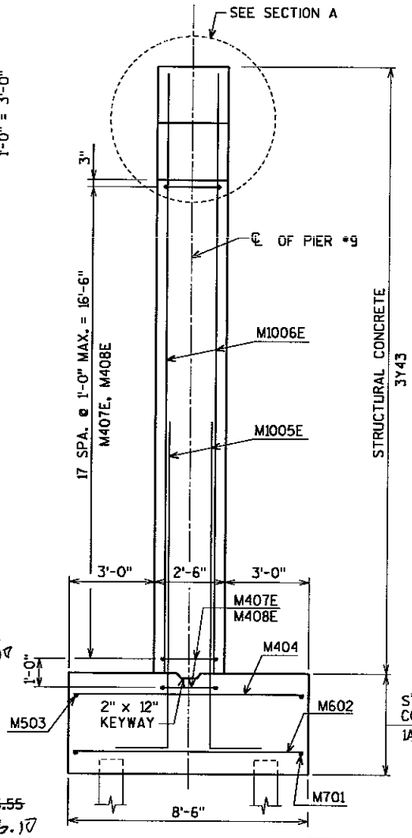
BAR	NO.	LENGTH	SHAPE	LOCATION
M701	13	12'-6"	STR.	FOOTING BOTTOM
M602	18	8'-0"	STR.	FOOTING BOTTOM
M503	13	12'-6"	STR.	FOOTING TOP
M404	19	8'-0"	STR.	FOOTING TOP
M1005E	20	13'-3"	BENT	PIER SHAFT DOWEL
M1006E	20	21'-1"	STR.	PIER SHAFT VERT.
M407E	38	10'-0"	BENT	PIER SHAFT TIES HORIZ.
M408E	19	10'-6"	BENT	PIER SHAFT TIES HORIZ.
M509E	2	13'-0"	BENT	PIER CAP HORIZ. E.F.
M510E	2	6'-6"	STR.	PIER CAP HORIZ. E.F.
M511E	2	10'-8"	STR.	PIER CAP HORIZ. E.F.
M512E	2	12'-2"	STR.	PIER CAP HORIZ. E.F.
M513E	6	13'-11"	BENT	PIER CAP HORIZ.
M414E	2 SETS OF 7	6'-2" TO 10'-0"	BENT	PIER CAP TIES VERT.
M415E	19	4'-0"	BENT	PIER CAP TIES VERT.
M516E	12	2'-0"	STR.	PIER CAP DOWELS

E.F. DENOTES EACH FACE

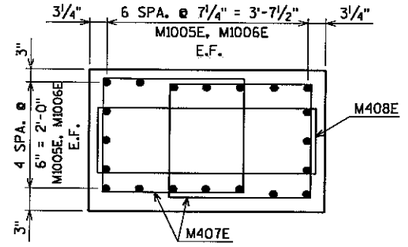




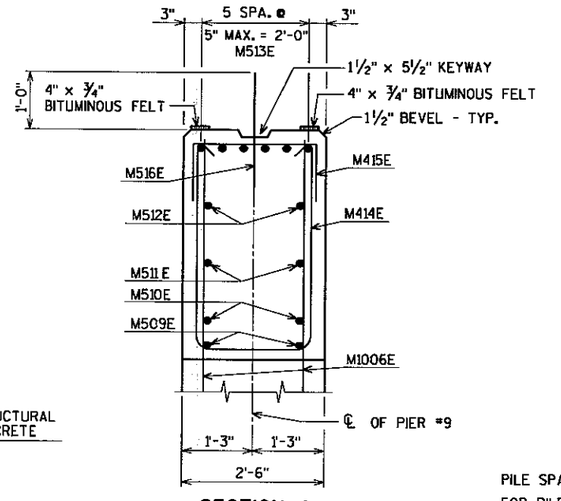
ELEVATION



SIDE VIEW



SHAFT DETAIL



SECTION A

SUMMARY OF QUANTITIES FOR PIER #9

	STRUCTURE CONCRETE (1A43)	14.5 CU. YD.
	STRUCTURE CONCRETE (3Y43)	10.5 CU. YD.
	REINFORCEMENT BARS (EPOXY COATED)	3670 POUND
	REINFORCEMENT BARS	820 POUND
(1)	STEEL H-PILING, DELIVERED 10x42	70 LIN. FT.
(1)	STEEL H-PILING, DRIVEN 10x42	70 LIN. FT.
	~~ROCK SOCKET~~	~~8 EACH~~
	STEEL H-TEST PILE 12 FEET LONG 10x42	1 EACH
	PILE TIP PROTECTION 10-INCH	8 EACH
(2)	¾" BITUMINOUS FELT	9 SQ. FT.

(1) DOES NOT INCLUDE TEST PILE.
(2) TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS.

COMPUTED PILE LOADS	TONS/PILE
DEAD LOAD	16.1
LIVE LOAD + OVERTURNING	25.6
DESIGN LOAD	41.7

AASHTO GROUP IV LOADING CONTROLS

PILE NOTES

1 HP 10 x 42 STEEL TEST PILE 12 FEET LONG.
7 HP 10 x 42 STEEL PILES EST. LENGTH 10 FT.
8 HP 10 x 42 STEEL PILES REQ'D. FOR PIER #9.

PILE SPACING SHOWN IS AT BOTTOM OF FOOTING.
FOR PILE SPLICE DETAIL SEE SHEET 45.
MINIMUM PILE PENETRATION BELOW BOTTOM OF FOOTING ELEVATION IS 10 FEET.

Ave Pile Penetration Elev. 1218.0

AS-BUILT

MAR 14 2001

ENGINEERING

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David H. Dantzler PROFESSIONAL ENGINEER
REG. NO. 15438 4/13/98

S.A.P. NO. 55-622-34

TITLE: PIER #9

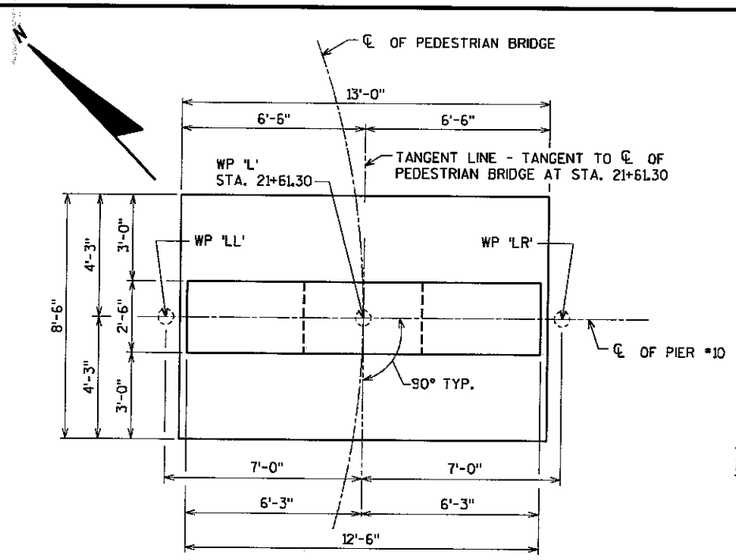
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CHK: RCK CHK: CBM

SHEET NO. 20 OF 66 SHEETS

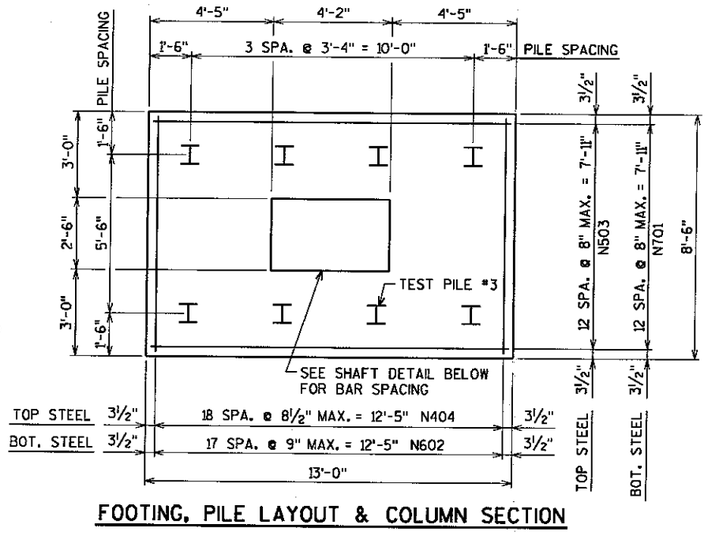
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DGN LEVELS ON = 1-63



PLAN VIEW

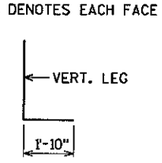


FOOTING, PILE LAYOUT & COLUMN SECTION

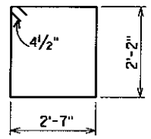
BILL OF REINFORCING FOR PIER #10

BAR	NO.	LENGTH	SHAPE	LOCATION
N701	13	12'-6"	STR.	FOOTING BOTTOM
N602	18	8'-0"	STR.	FOOTING BOTTOM
N503	13	12'-6"	STR.	FOOTING TOP
N404	19	8'-0"	STR.	FOOTING TOP
N1005E	20	13'-3"	BENT	PIER SHAFT DOWEL
N1006E	20	19'-6"	STR.	PIER SHAFT VERT.
N407E	34	10'-0"	BENT	PIER SHAFT TIES HORIZ.
N408E	17	10'-6"	BENT	PIER SHAFT TIES HORIZ.
N509E	2	13'-0"	BENT	PIER CAP HORIZ. E.F.
N510E	2	6'-6"	STR.	PIER CAP HORIZ. E.F.
N511E	2	10'-8"	STR.	PIER CAP HORIZ. E.F.
N512E	2	12'-2"	STR.	PIER CAP HORIZ. E.F.
N513E	6	13'-11"	BENT	PIER CAP HORIZ.
N414E	2 SETS OF 7	6'-2" TO 10'-0"	BENT	PIER CAP TIES VERT.
N415E	19	4'-0"	BENT	PIER CAP TIES VERT.

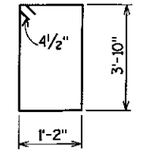
E.F. DENOTES EACH FACE



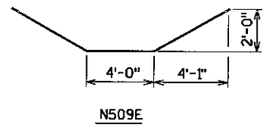
N1005E



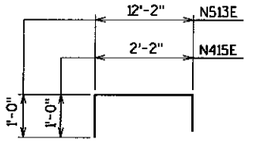
N407E

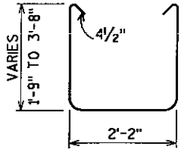


N408E



N509E





N414E

SUMMARY OF QUANTITIES FOR PIER #10

	STRUCTURE CONCRETE (1A43)	14.5 CU. YD.
	STRUCTURE CONCRETE (3Y43)	10.0 CU. YD.
	REINFORCEMENT BARS (EPOXY COATED)	3470 POUND
	REINFORCEMENT BARS	820 POUND
(1)	STEEL H-PILING, DELIVERED 10x42	70 LIN. FT.
(1)	STEEL H-PILING, DRIVEN 10x42	70 LIN. FT.
	ROCK SOCKET	8 EACH
	STEEL H-TEST PILE 12 FEET LONG 10x42	1 EACH
	PILE TIP PROTECTION 10-INCH	8 EACH

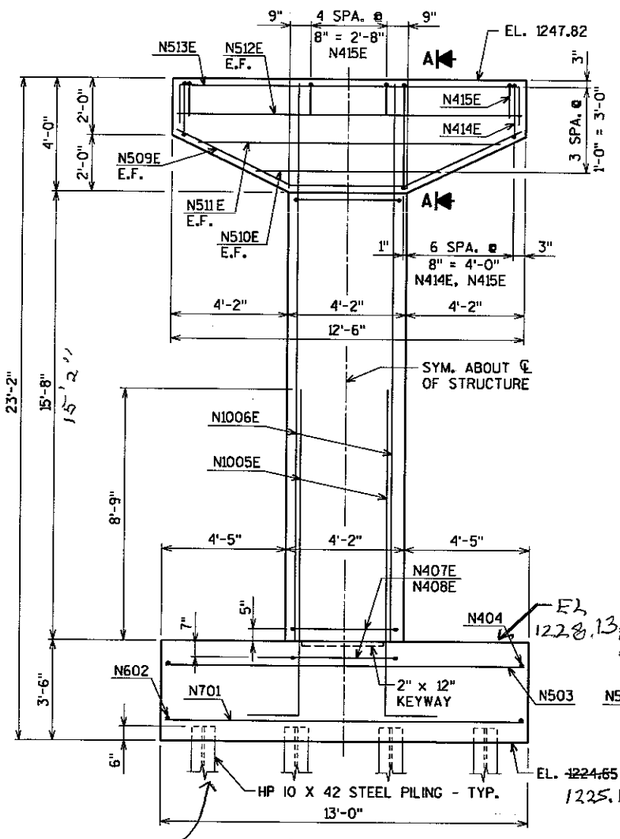
(1) DOES NOT INCLUDE TEST PILE.

COMPUTED PILE LOADS	TONS/PILE
DEAD LOAD	15.9
LIVE LOAD + OVERTURNING	30.1
DESIGN LOAD	46.0

AASHTO GROUP IV LOADING CONTROLS

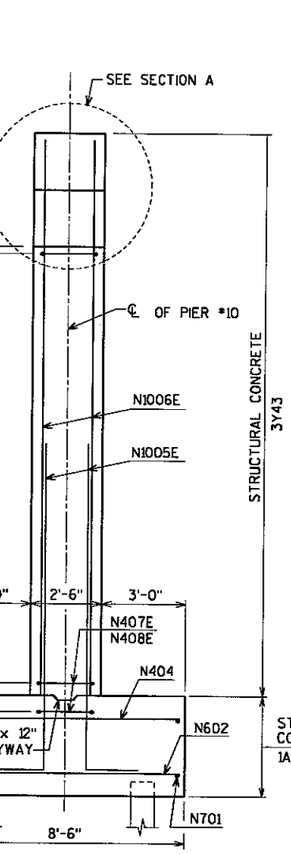
PILE NOTES

1 HP 10 x 42 STEEL TEST PILE 12 FEET LONG.
7 HP 10 x 42 STEEL PILES EST. LENGTH 10 FT.
8 HP 10 x 42 STEEL PILES REQ'D. FOR PIER #10.

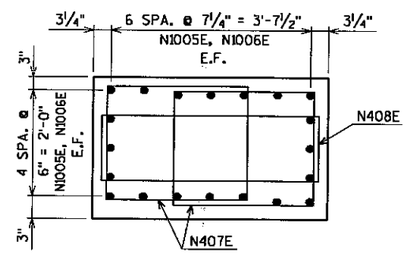


ELEVATION

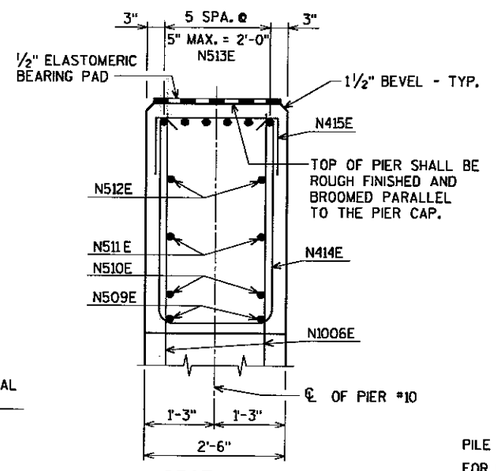
Ave. Pile Penetration Elevation 1218.1



SIDE VIEW



SHAFT DETAIL



SECTION A

PILE SPACING SHOWN IS AT BOTTOM OF FOOTING.
FOR PILE SPLICE DETAIL SEE SHEET 45.
MINIMUM PILE PENETRATION BELOW BOTTOM OF FOOTING ELEVATION IS 10 FEET.

AS-BUILT
MAR 14 2001
ENGINEERING

CERTIFIED BY David H. Pantloff PROFESSIONAL ENGINEER
REG. NO. 15438 4/15 19 98

S.A.P. NO. 55-622-34

TITLE: PIER #10

PLANS PREPARED BY:
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

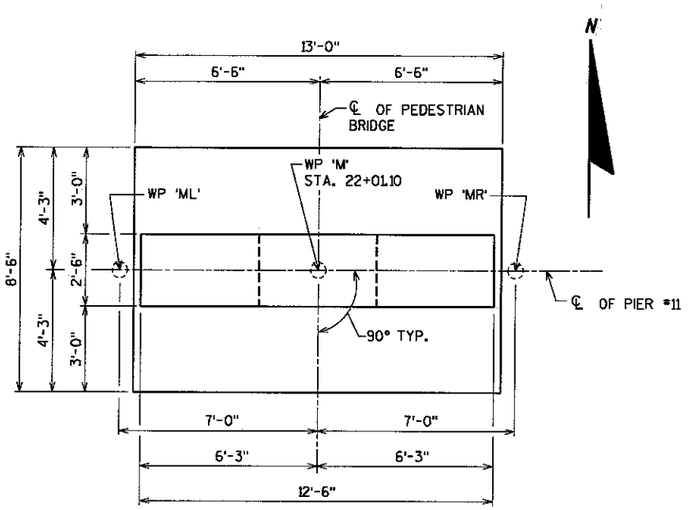
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SHEET NO. 21 OF 66 SHEETS

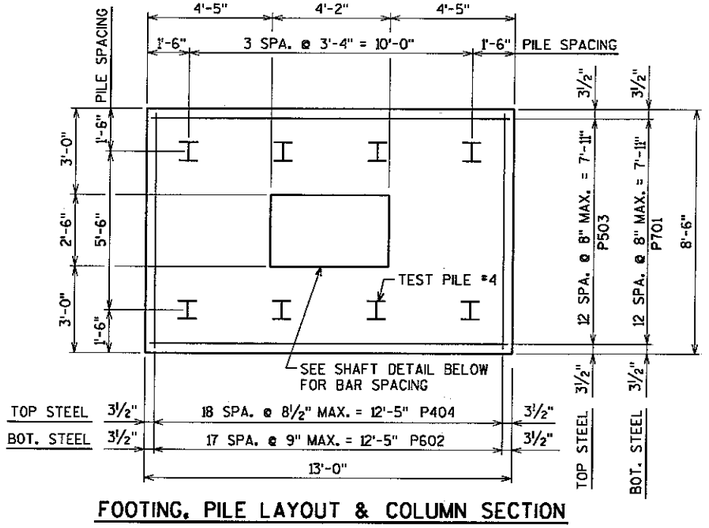
BRIDGE NO. 55562

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DGN LEVELS ON = 1-63



PLAN VIEW

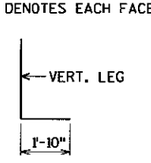


FOOTING, PILE LAYOUT & COLUMN SECTION

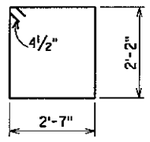
BILL OF REINFORCING FOR PIER #11

BAR	NO.	LENGTH	SHAPE	LOCATION
P701	13	12'-6"	STR.	FOOTING BOTTOM
P602	18	8'-0"	STR.	FOOTING BOTTOM
P503	13	12'-6"	STR.	FOOTING TOP
P404	19	8'-0"	STR.	FOOTING TOP
P1005E	20	13'-3"	BENT	PIER SHAFT DOWEL
P1006E	20	17'-1"	STR.	PIER SHAFT VERT.
P407E	30	10'-0"	BENT	PIER SHAFT TIES HORIZ.
P408E	15	10'-6"	BENT	PIER SHAFT TIES HORIZ.
P509E	2	13'-0"	BENT	PIER CAP HORIZ. E.F.
P510E	2	6'-6"	STR.	PIER CAP HORIZ. E.F.
P511E	2	10'-8"	STR.	PIER CAP HORIZ. E.F.
P512E	2	12'-2"	STR.	PIER CAP HORIZ. E.F.
P513E	6	13'-11"	BENT	PIER CAP HORIZ.
P414E	2 SETS OF 7	6'-2" TO 10'-0"	BENT	PIER CAP TIES VERT.
P415E	19	4'-0"	BENT	PIER CAP TIES VERT.
P516E	12	2'-0"	STR.	PIER CAP DOWELS

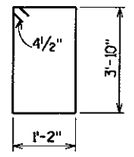
E.F. DENOTES EACH FACE



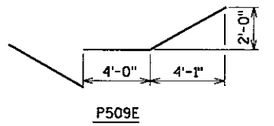
P1005E



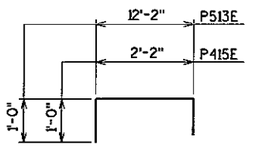
P407E

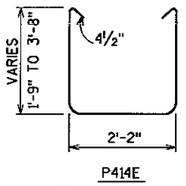


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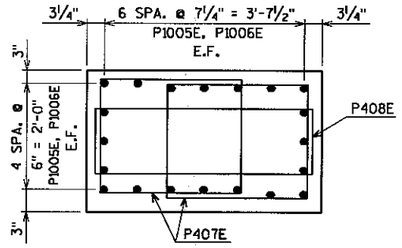


P509E

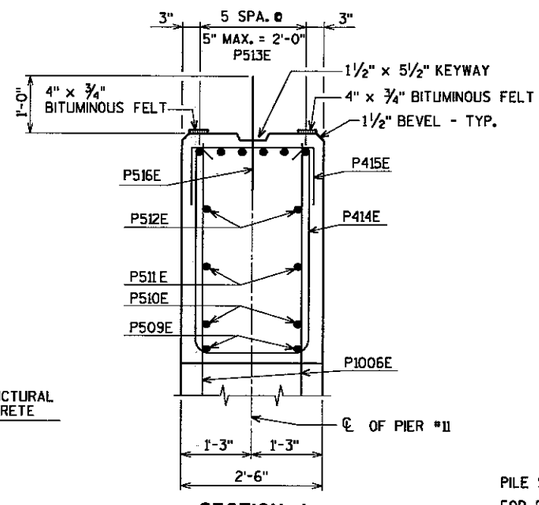




P414E



SHAFT DETAIL



SECTION A

SUMMARY OF QUANTITIES FOR PIER #11

	STRUCTURE CONCRETE (1A43)	14.5	CU. YD.
	STRUCTURE CONCRETE (3Y43)	9.0	CU. YD.
	REINFORCEMENT BARS (EPOXY COATED)	3240	POUND
	REINFORCEMENT BARS	820	POUND
(1)	STEEL H-PILING. DELIVERED 10x42	70	LIN. FT.
(1)	STEEL H-PILING. DRIVEN 10x42	70	LIN. FT.
	ROCK SOCKET	8	EACH
	STEEL H-TEST PILE 12 FEET LONG 10x42	1	EACH
	PILE TIP PROTECTION 10-INCH	8	EACH
(2)	¾" BITUMINOUS FELT	9	SQ. FT.

(1) DOES NOT INCLUDE TEST PILE.
(2) TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS.

COMPUTED PILE LOADS	TONS/PILE
DEAD LOAD	15.7
LIVE LOAD + OVERTURNING	19.4
DESIGN LOAD	35.1

AASHTO GROUP IV LOADING CONTROLS

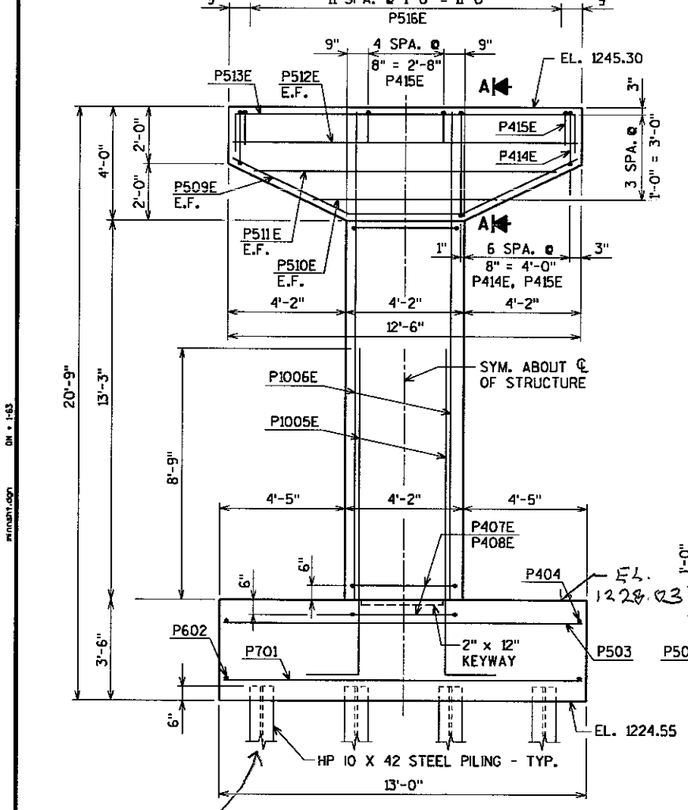
PILE NOTES

1 HP 10 x 42 STEEL TEST PILE 12 FEET LONG.
7 HP 10 x 42 STEEL PILES EST. LENGTH 10 FT.
8 HP 10 x 42 STEEL PILES REQ'D. FOR PIER #11.

AS-BUILT

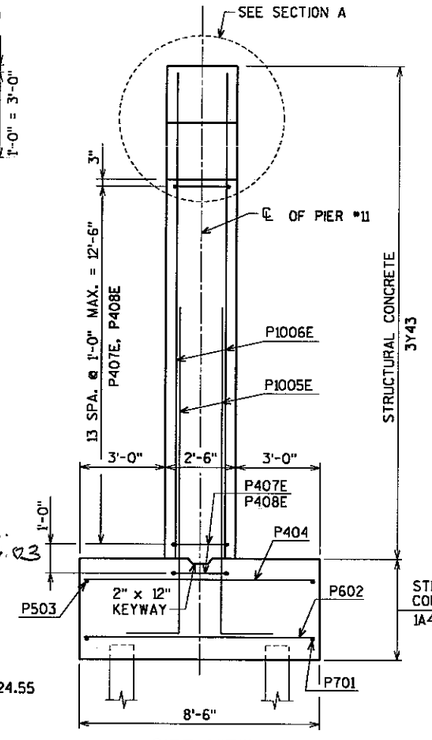
MAR 14 2001

PILE SPACING SHOWN IS AT BOTTOM OF FOOTING.
FOR PILE SPLICE DETAIL SEE SHEET 45.
MINIMUM PILE PENETRATION BELOW BOTTOM OF FOOTING ELEVATION IS 10 FEET.



ELEVATION

Ave. Pile Penetration Elev. 1217.8'



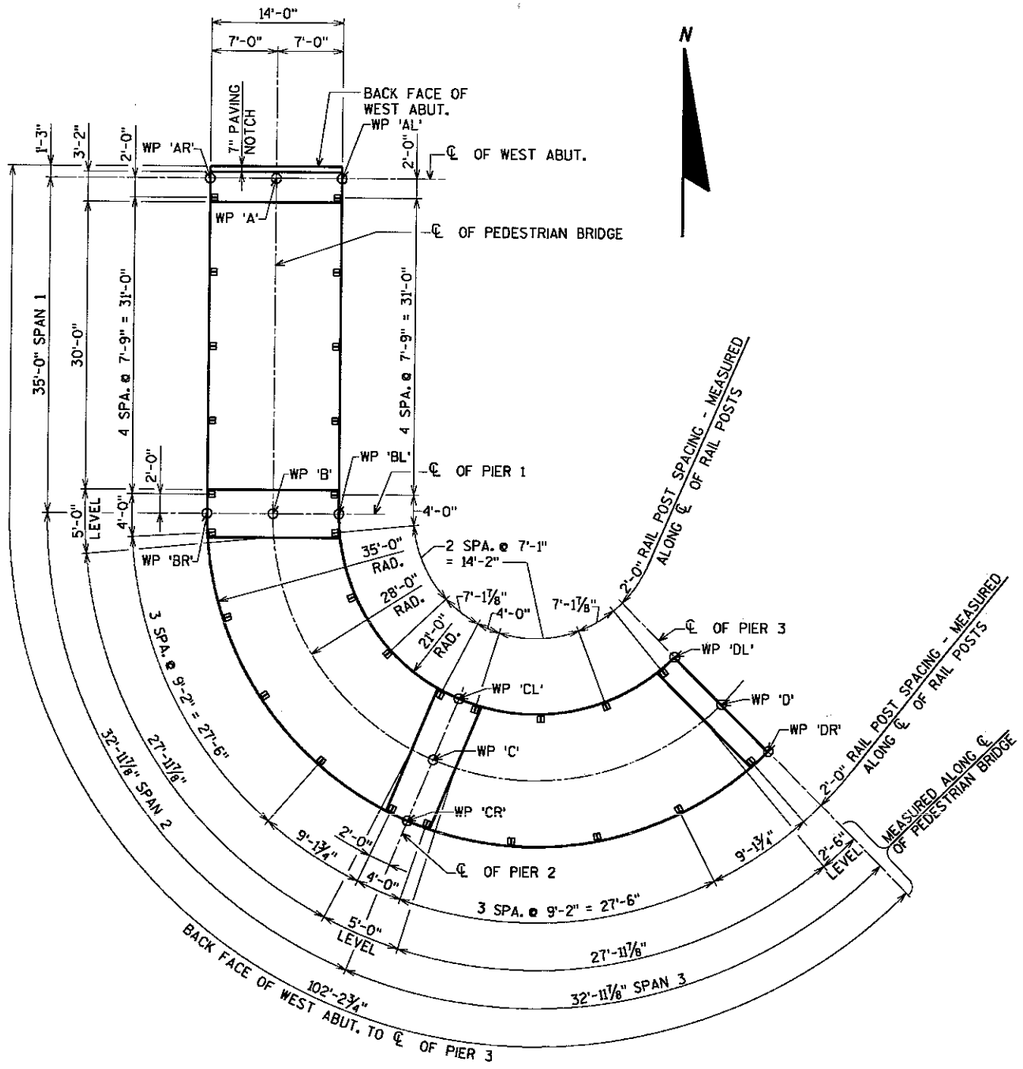
SIDE VIEW

REFERENCE FILES

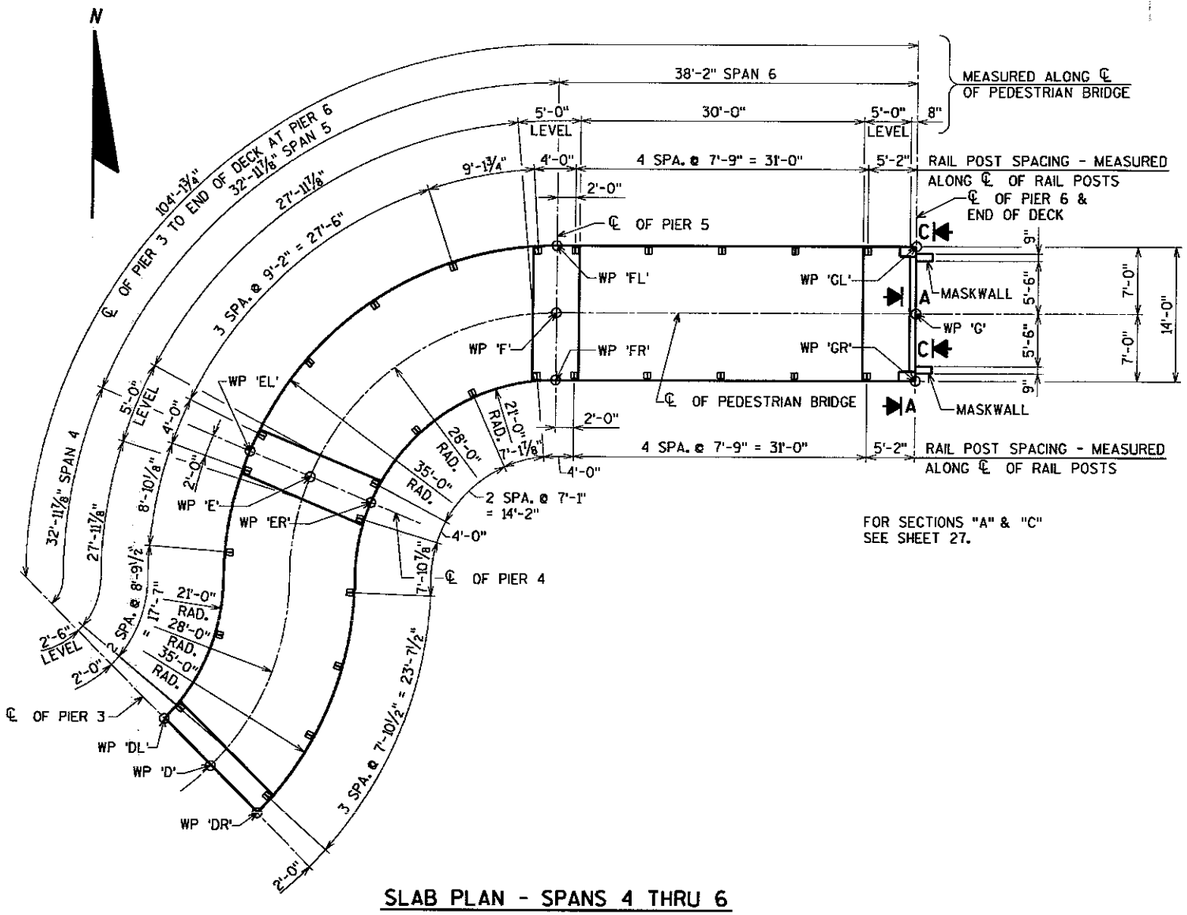
CERTIFIED BY David F. Dantzler PROFESSIONAL ENGINEER	S.A.P. NO. 55-622-34	TITLE: PIER #11	DES: CBM DR: CLS APPROVED: 5-7-98
REG. NO. 15438 4/13 1998			CHK: RCK CHK: CBM
			SHEET NO. 22 OF 66 SHEETS
			BRIDGE NO. 55562

AYRES ASSOCIATES ENGINEERING
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Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

PLOT NAME = P:±2LAST7±0260SUPW.LAY
PEN TABLE = ±PLOT72±LASER±smbr.tbl
DATE OF PLOT = 04/10/98
DESIGN FILE IS U:±trbridge±0260supw.dgn
DGN LEVELS ON = 1-63



SLAB PLAN - SPANS 1 THRU 3



FOR SECTIONS "A" & "C" SEE SHEET 27.

SLAB PLAN - SPANS 4 THRU 6

SUMMARY OF QUANTITIES FOR SUPERSTRUCTURE - SPANS 1 THRU 6

①	BRIDGE SLAB CONCRETE (3Y33A)	2890	SQ. FT.
②	RAILING CONCRETE (3Y46A)	3.5	LIN. FT.
	ORNAMENTAL METAL RAILING	410	LIN. FT.
③	REINFORCEMENT BARS (EPOXY COATED)	19230	POUND
	EXPANSION JOINT DEVICES, TYPE 1	14	LIN. FT.
④	ELASTOMERIC BEARING PAD TYPE 1	2	EACH
⑤	ELASTOMERIC BEARING PAD TYPE 2	2	EACH

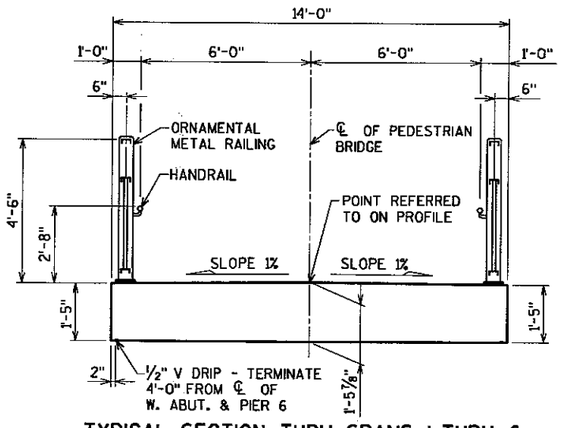
① BRIDGE SLAB CONCRETE MIX NO. 3Y33A VOLUME IS APPROX. 156 CU. YD.

② RAILING CONCRETE (3Y46A) IS APPROXIMATELY 0.2 CU. YD.

③ INCLUDES RAILING AND SLAB REINFORCING BARS.

④ ELASTOMERIC PAD TO BE 2'-3" x 12'-3" x ½" THICK

④ ELASTOMERIC PAD TO BE 1'-0" x 12'-3" x 1" THICK



TYPICAL SECTION THRU SPANS 1 THRU 6

AS-BUILT

MAR 1 4 2001

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Eau Claire, WI 54701

CERTIFIED BY David H Dantzler PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: SUPERSTRUCTURE SPANS 1 THRU 6 LAYOUT

DES: PWD DR: GLD CHK: CBM CHK: CBM APPROVED: 5-7-98

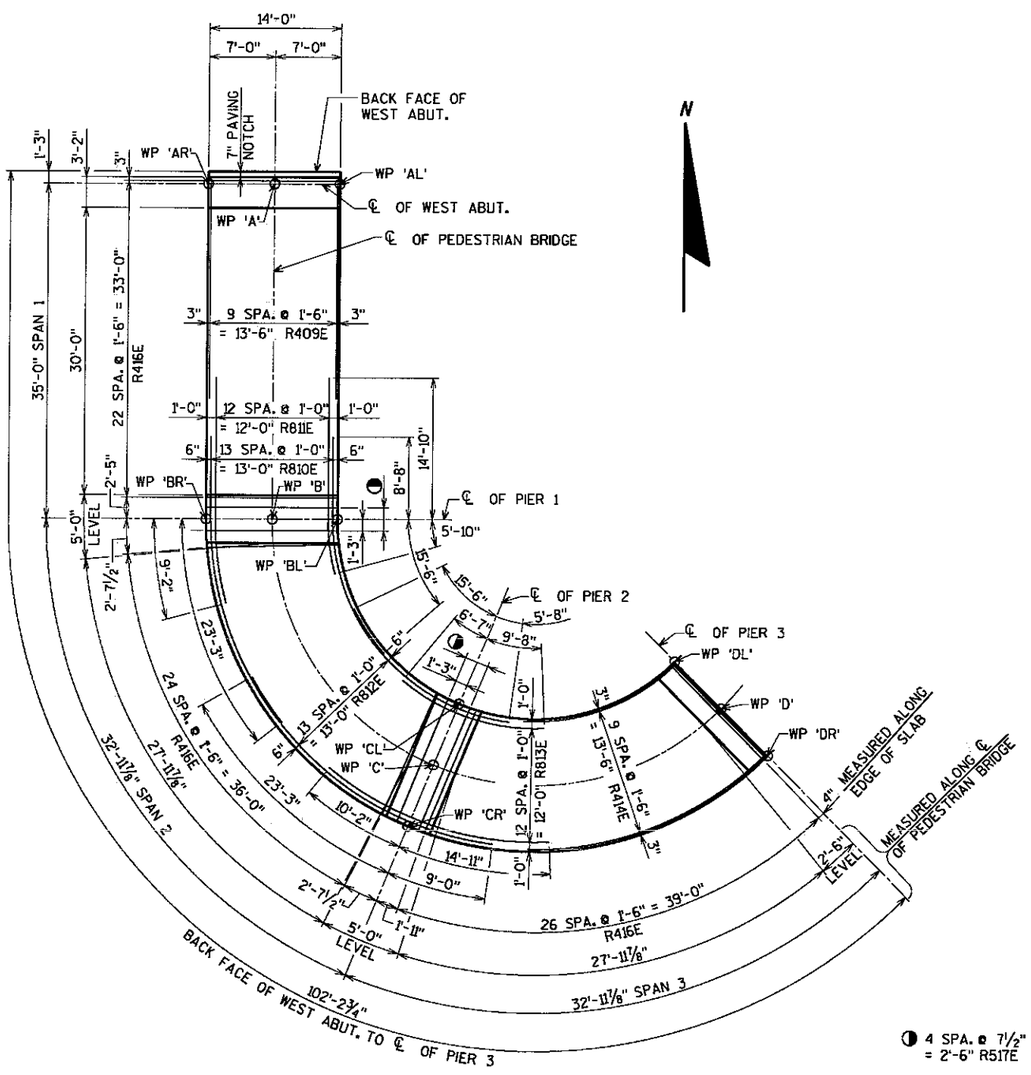
SHEET NO. 23 OF 66 SHEETS

BRIDGE NO. 55562

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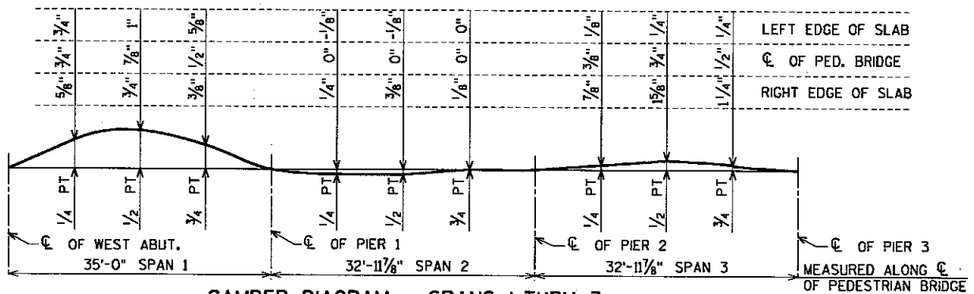
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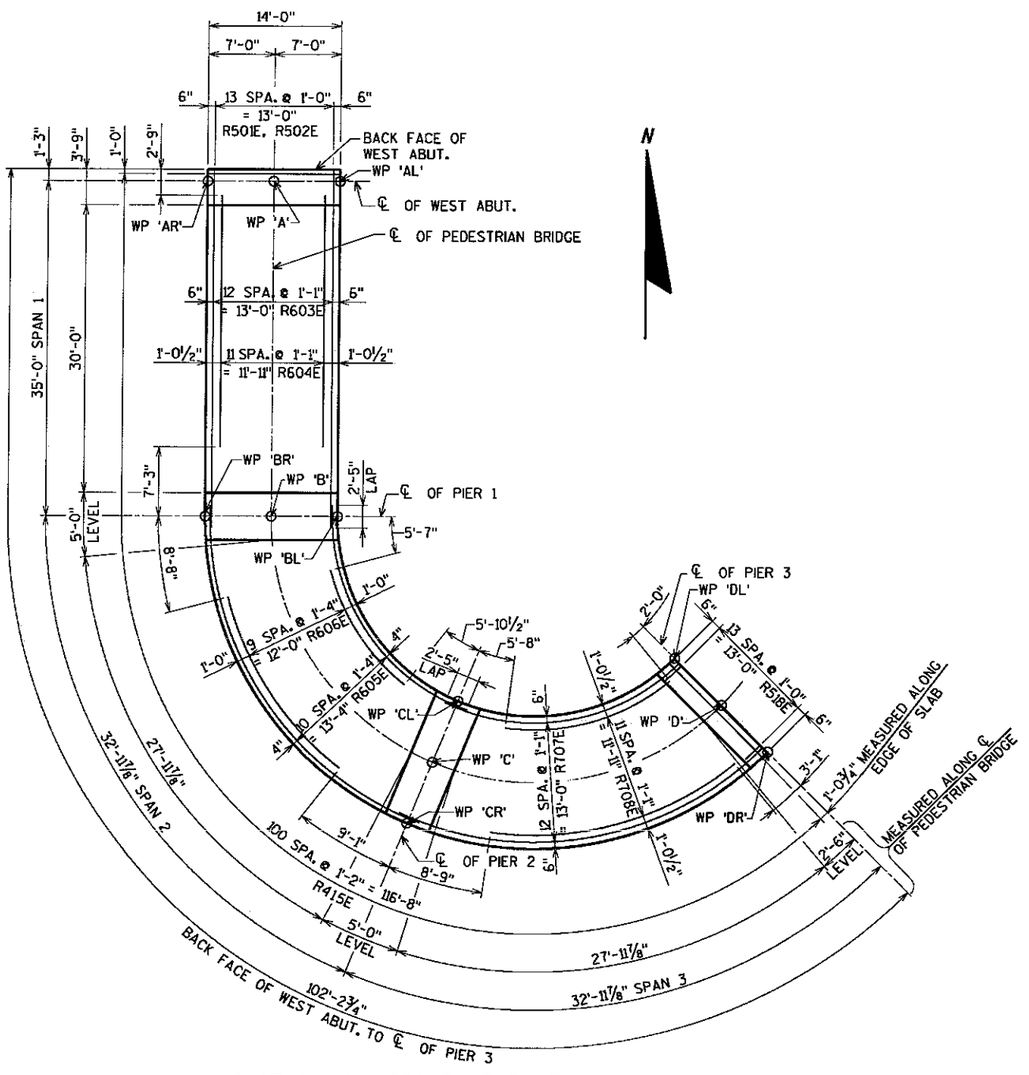
SLAB PLAN - SPANS 1 THRU 3

TOP SLAB STEEL SHOWN



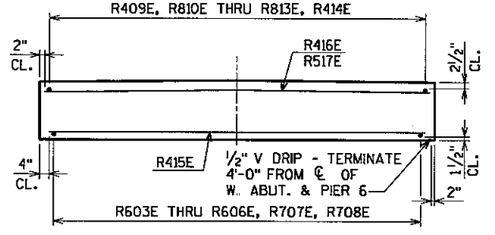
CAMBER DIAGRAM - SPANS 1 THRU 3

CAMBER SPANS AS SHOWN TO PROVIDE FOR DEADLOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.
(-) DENOTES NEGATIVE CAMBER



SLAB PLAN - SPANS 1 THRU 3

BOTTOM SLAB STEEL SHOWN



TYPICAL SECTION THRU DECK - SPANS 1 THRU 3

AS-BUILT

MAR 1 4 2001

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Eau Claire, WI 54701

CERTIFIED BY David H Ostlyff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

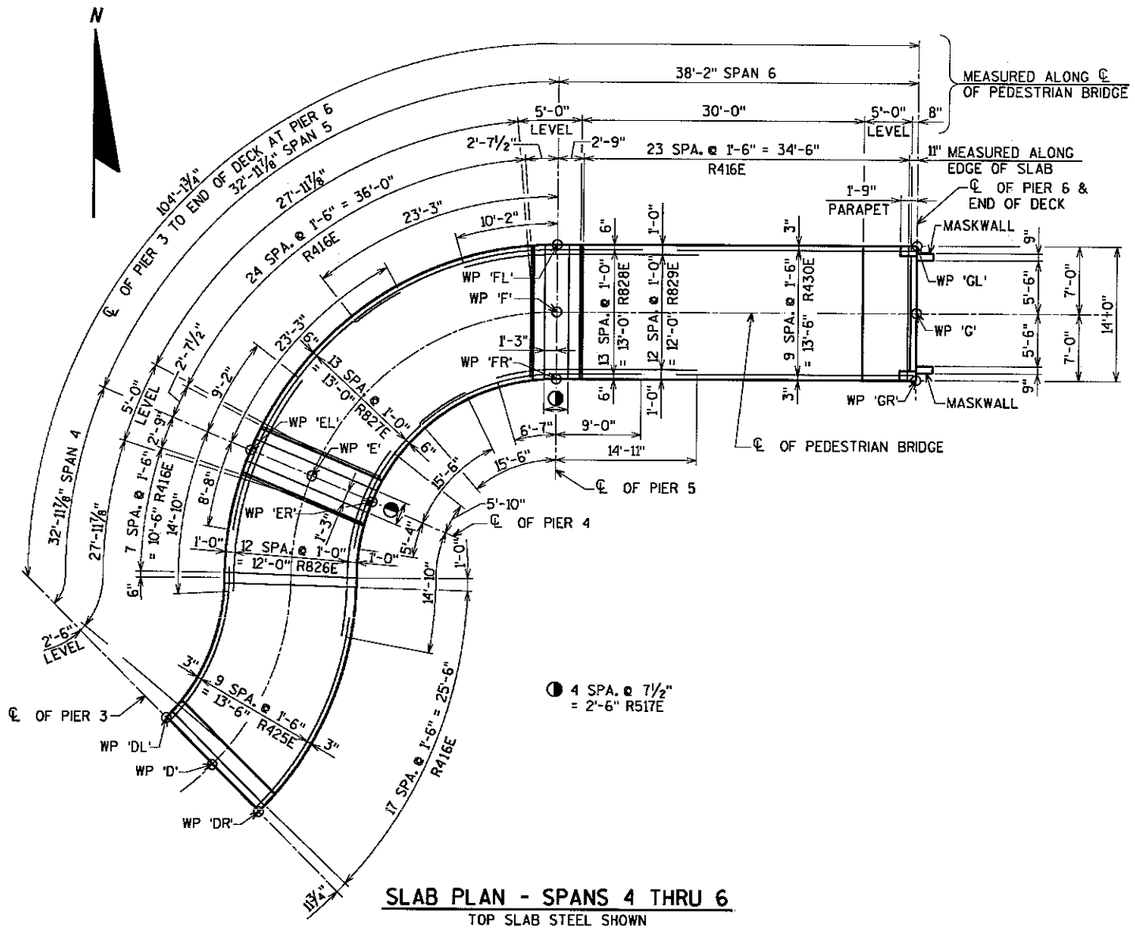
TITLE: SUPERSTRUCTURE SPANS 1 THRU 3 REINFORCING LAYOUT

DES: PWD DR: GLD APPROVED: 5-7-98
CHK: CBM CHK: CBM

SHEET NO. 24 OF 66 SHEETS

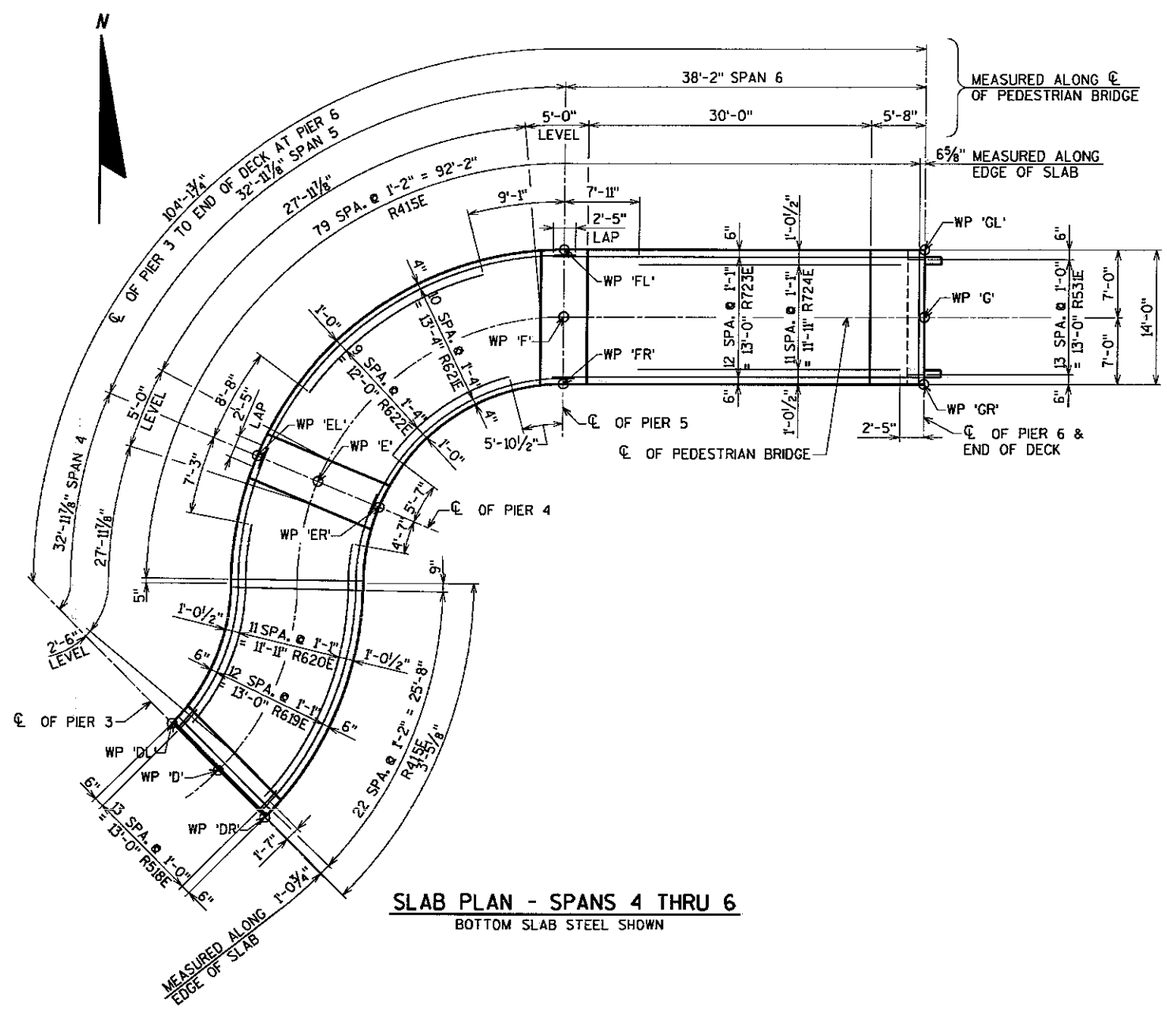
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DGN LEVELS ON = 1-63



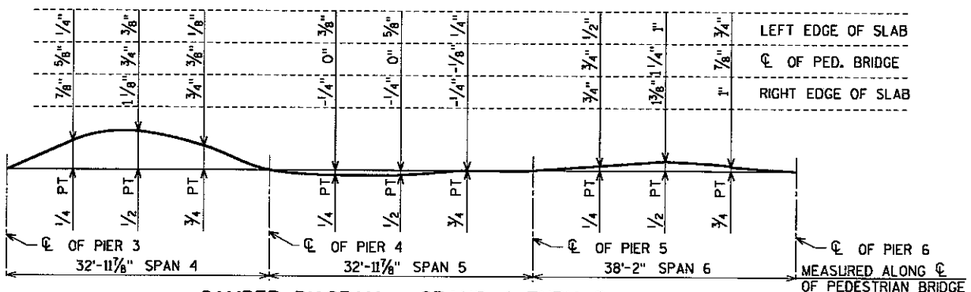
SLAB PLAN - SPANS 4 THRU 6

TOP SLAB STEEL SHOWN



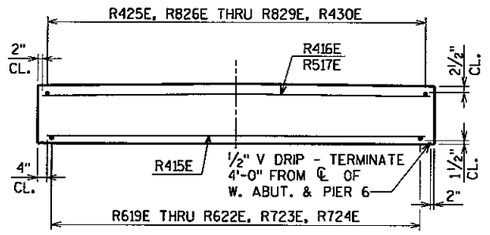
SLAB PLAN - SPANS 4 THRU 6

BOTTOM SLAB STEEL SHOWN



CAMBER DIAGRAM - SPANS 4 THRU 6

CAMBER SPANS AS SHOWN TO PROVIDE FOR DEADLOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.
(-) DENOTES NEGATIVE CAMBER



TYPICAL SECTION THRU DECK - SPANS 4 THRU 6

AS-BUILT

MAR 1 4 2001

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Eau Claire, WI 54701

CERTIFIED BY David H Dantzler PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 19 98

S.A.P. NO. 55-622-34

TITLE: SUPERSTRUCTURE SPANS 4 THRU 6 REINFORCING LAYOUT

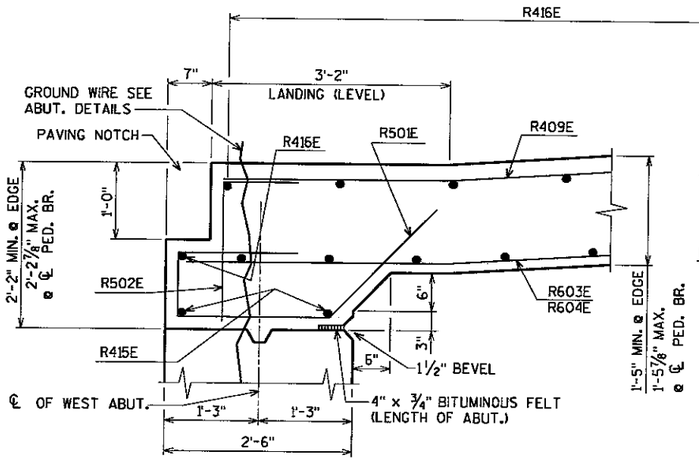
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CHK: CBM | CHK: CBM

SHEET NO. 25 OF 66 SHEETS

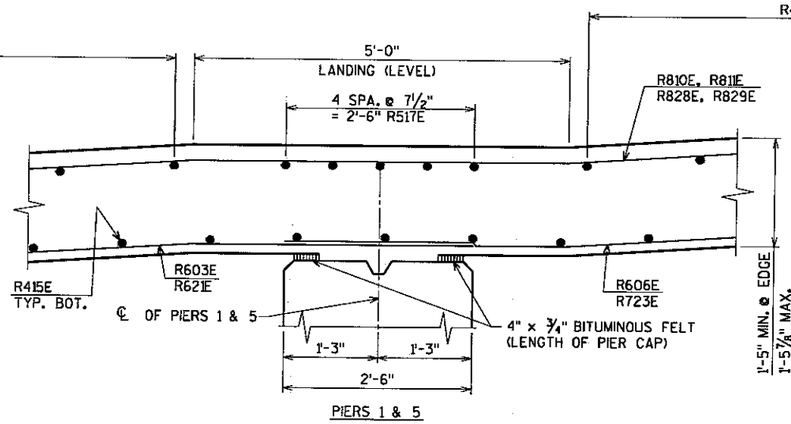
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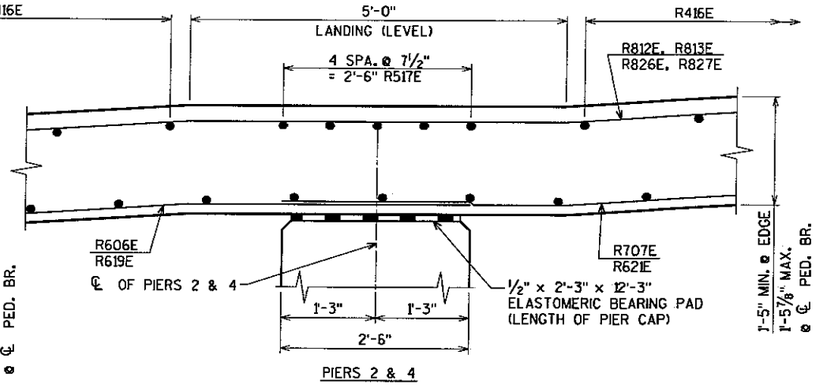
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WEST ABUT.

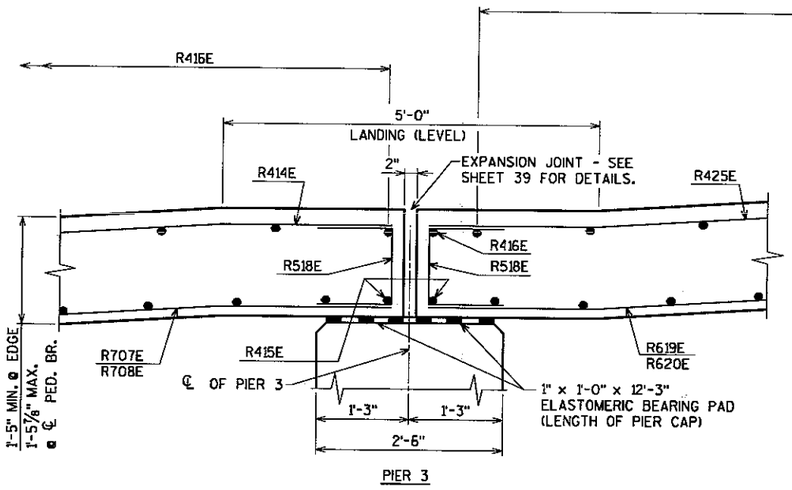


PIERS 1 & 5

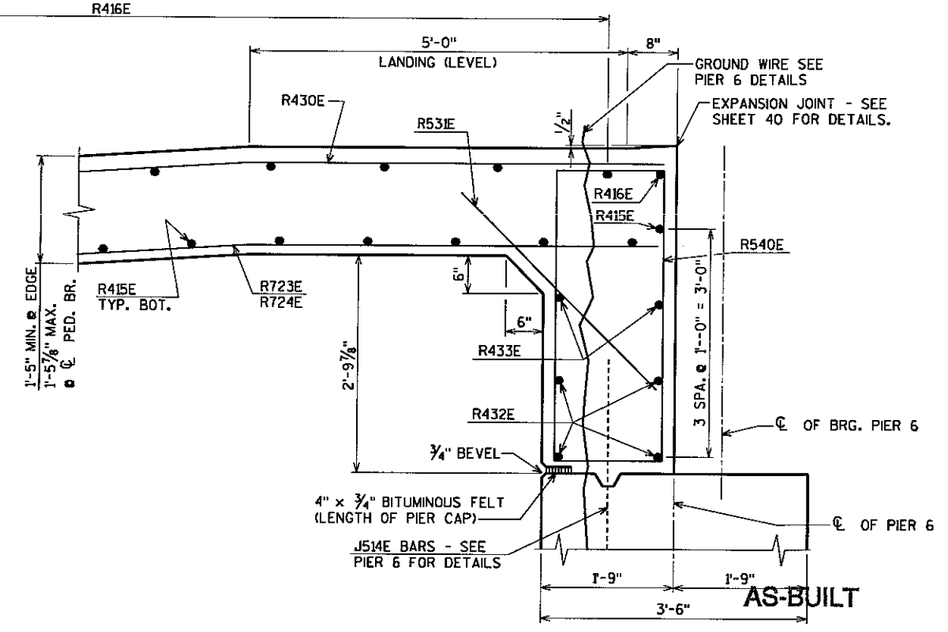


PIERS 2 & 4

PART LONGITUDINAL SECTION



PIER 3



PIER 6

PART LONGITUDINAL SECTION

AS-BUILT

MAR 14 2001

ENGINEERING

REFERENCE FILES
mnsmstr.dgn ON = 1-63
mnsmstr.dgn ON = 1-63

PLANS PREPARED BY
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PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

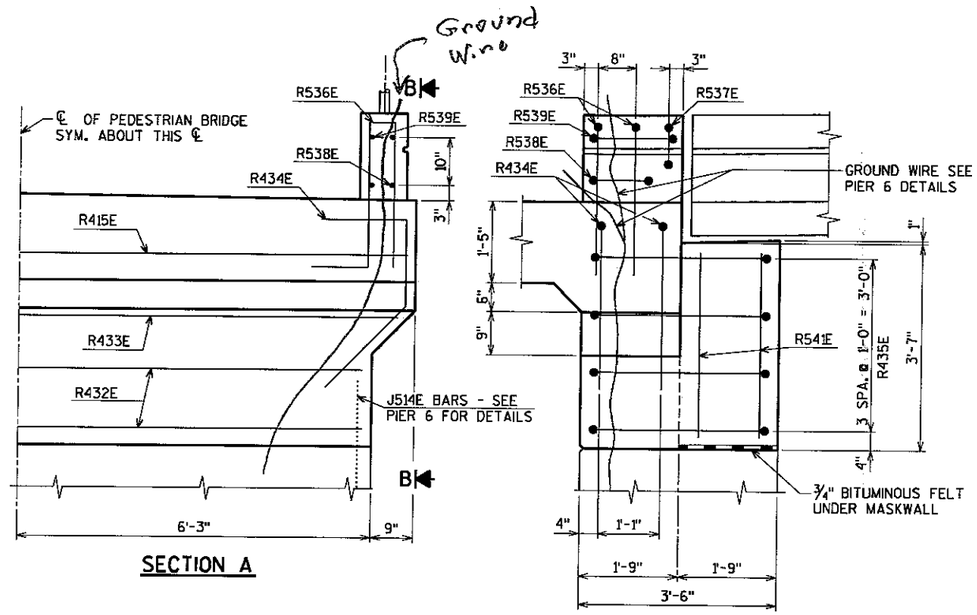
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CHK: CBM | CHK: CBM

SHEET NO. 26 OF 66 SHEETS

BRIDGE NO. 55562

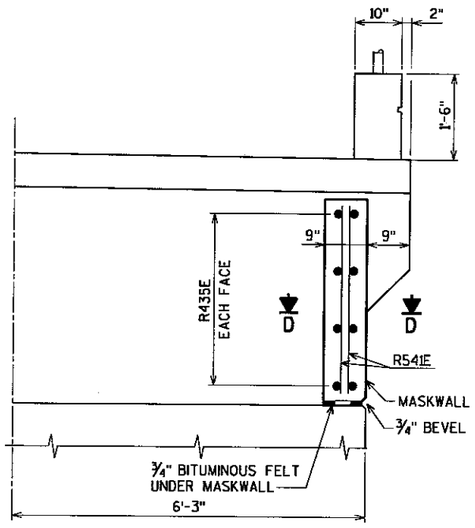
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DGN LEVELS ON = 1-63



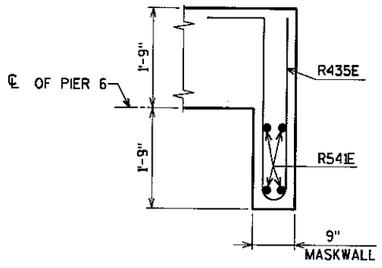
SECTION A

SECTION B

FOR LOCATION OF SECTIONS "A" & "C" SEE SHEET 23.



SECTION C



SECTION D

AS-BUILT

MAR 14 2001

ENGINEERING

PLANS PREPARED BY
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Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David H Ostrowski PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: SUPERSTRUCTURE SPANS 1 THRU 6 DETAILS

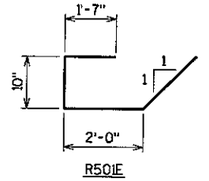
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CHK: CBM | CHK: CBM

SHEET NO. 27 OF 66 SHEETS

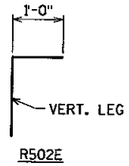
BRIDGE NO. 55562

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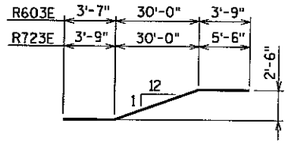
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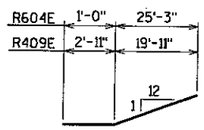


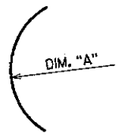
R501E



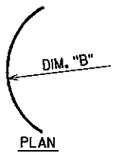
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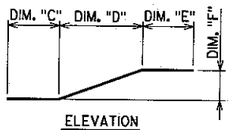




BAR	DIM. "A"
R606E	VARIES FROM 22'-0" FOR 14'-8" LG. BAR TO 34'-0" FOR 22'-5" LG. BAR
R708E	VARIES FROM 22'-0½" FOR 18'-5" LG. BAR TO 33'-11½" FOR 28'-3" LG. BAR
R622E	VARIES FROM 22'-0" FOR 14'-8" LG. BAR TO 34'-0" FOR 22'-5" LG. BAR



PLAN

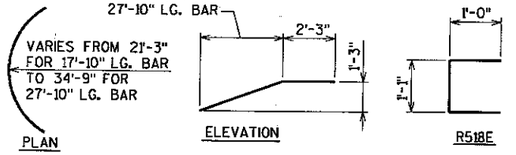


ELEVATION

BAR	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"	DIM. "F"
R605E	VARIES FROM 21'-4" FOR 27'-7" LG. BAR TO 34'-8" FOR 43'-10" LG. BAR	3'-9"	VARIES FROM 20'-0" FOR 27'-7" LG. BAR TO 36'-3" FOR 43'-10" LG. BAR	3'-9"	1'-9"
R707E	VARIES FROM 21'-6" FOR 25'-8" LG. BAR TO 34'-6" FOR 42'-2" LG. BAR	3'-9"	VARIES FROM 19'-9" FOR 25'-8" LG. BAR TO 36'-3" FOR 42'-2" LG. BAR	2'-3"	1'-9"
R621E	VARIES FROM 21'-4" FOR 27'-7" LG. BAR TO 34'-8" FOR 43'-10" LG. BAR	3'-9"	VARIES FROM 20'-0" FOR 27'-7" LG. BAR TO 36'-3" FOR 43'-10" LG. BAR	3'-9"	1'-9"

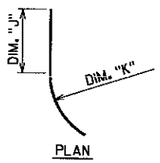
VARIES FROM 15'-6" FOR 17'-10" LG. BAR TO 25'-6" FOR 27'-10" LG. BAR

VARIES FROM 21'-3" FOR 17'-10" LG. BAR TO 34'-9" FOR 27'-10" LG. BAR

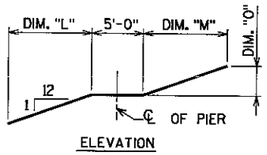


PLAN ELEVATION R518E

R414E

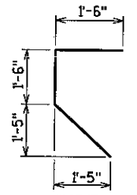


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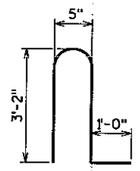


ELEVATION

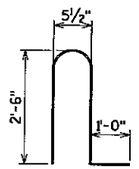
BAR	DIM. "J"	DIM. "K"	DIM. "L"	DIM. "M"	DIM. "O"
R810E	8'-8"	VARIES FROM 21'-6" FOR 24'-3" LG. BAR TO 34'-6" FOR 32'-0" LG. BAR	6'-2"	VARIES FROM 13'-0" FOR 24'-3" LG. BAR TO 20'-9" FOR 32'-0" LG. BAR	1'-0"
R811E	14'-10"	VARIES FROM 22'-0" FOR 20'-11" LG. BAR TO 34'-0" FOR 24'-1" LG. BAR	12'-4"	VARIES FROM 3'-6" FOR 20'-11" LG. BAR TO 6'-8" FOR 24'-1" LG. BAR	5"
R828E	9'-0"	VARIES FROM 21'-6" FOR 24'-7" LG. BAR TO 34'-6" FOR 32'-4" LG. BAR	6'-6"	VARIES FROM 13'-0" FOR 24'-7" LG. BAR TO 20'-9" FOR 32'-4" LG. BAR	1'-0"
R829E	14'-11"	VARIES FROM 22'-0" FOR 21'-5" LG. BAR TO 34'-0" FOR 25'-1" LG. BAR	12'-5"	VARIES FROM 4'-0" FOR 21'-5" LG. BAR TO 7'-8" FOR 25'-1" LG. BAR	5"



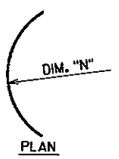
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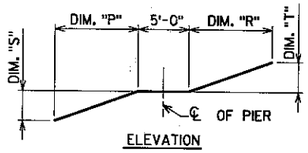
R435E



R536E



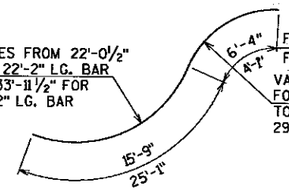
PLAN



ELEVATION

BAR	DIM. "N"	DIM. "P"	DIM. "R"	DIM. "S"	DIM. "T"
R812E	VARIES FROM 21'-6" FOR 21'-3" LG. BAR TO 34'-6" FOR 32'-4" LG. BAR	VARIES FROM 13'-0" FOR 21'-3" LG. BAR TO 20'-9" FOR 32'-4" LG. BAR	VARIES FROM 3'-2" FOR 21'-3" LG. BAR TO 6'-6" FOR 32'-4" LG. BAR	1'-0"	5"
R813E	VARIES FROM 22'-0" FOR 16'-4" LG. BAR TO 34'-0" FOR 25'-2" LG. BAR	VARIES FROM 4'-1" FOR 16'-4" LG. BAR TO 7'-8" FOR 25'-2" LG. BAR	VARIES FROM 7'-2" FOR 16'-4" LG. BAR TO 12'-5" FOR 25'-2" LG. BAR	6"	8"
R827E	VARIES FROM 34'-6" FOR 32'-0" LG. BAR TO 21'-6" FOR 20'-11" LG. BAR	VARIES FROM 6'-3" FOR 32'-0" LG. BAR TO 2'-10" FOR 20'-11" LG. BAR	VARIES FROM 20'-8" FOR 32'-0" LG. BAR TO 13'-0" FOR 20'-11" LG. BAR	4"	1'-0"

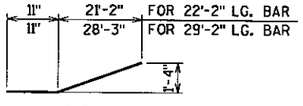
VARIES FROM 22'-0½" FOR 22'-2" LG. BAR TO 33'-11½" FOR 29'-2" LG. BAR



PLAN

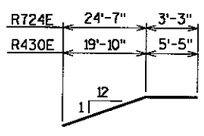
FOR 22'-2" LG. BAR FOR 29'-2" LG. BAR

VARIES FROM 33'-11½" FOR 22'-2" LG. BAR TO 22'-0½" FOR 29'-2" LG. BAR



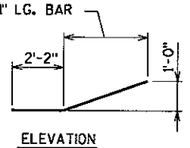
ELEVATION

R620E



VARIES FROM 15'-7" FOR 17'-9" LG. BAR TO 21'-11" FOR 23'-1" LG. BAR

VARIES FROM 21'-3" FOR 17'-9" LG. BAR TO 34'-9" FOR 23'-1" LG. BAR

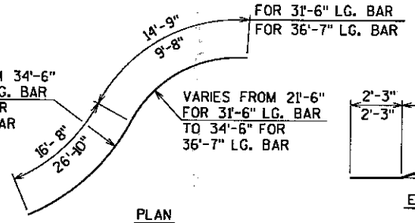


PLAN ELEVATION

R425E

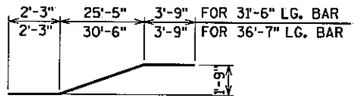
FOR 31'-6" LG. BAR FOR 36'-7" LG. BAR

VARIES FROM 34'-6" FOR 31'-6" LG. BAR TO 21'-6" FOR 36'-7" LG. BAR



PLAN

VARIES FROM 21'-6" FOR 31'-6" LG. BAR TO 34'-6" FOR 36'-7" LG. BAR

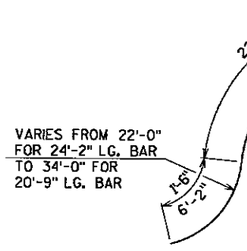


ELEVATION

R619E

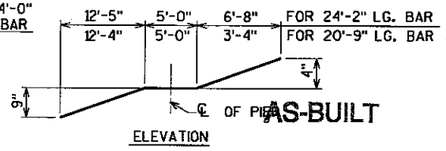
FOR 24'-2" LG. BAR FOR 20'-9" LG. BAR

VARIES FROM 22'-0" FOR 24'-2" LG. BAR TO 34'-0" FOR 20'-9" LG. BAR



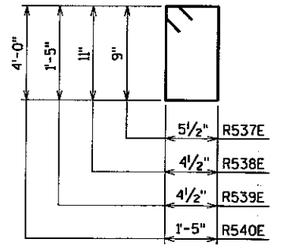
PLAN

VARIES FROM 34'-0" FOR 24'-2" LG. BAR TO 22'-0" FOR 20'-9" LG. BAR



ELEVATION

R826E



BILL OF REINFORCING FOR SUPERSTRUCTURE - SPANS 1 THRU 6

BAR	NO.	LENGTH	SHAPE	LOCATION
R501E	14	6'-3"	BENT	WEST ABUT. HAUNCH
R502E	14	2'-9"	BENT	WEST ABUT. HAUNCH
R603E	13	37'-5"	BENT	SLAB BOT. LONG. SPAN 1
R604E	12	26'-4"	BENT	SLAB BOT. LONG. SPAN 1
R605E	1 SET OF 11	27'-7" TO 43'-10"	BENT	SLAB BOT. LONG. SPAN 2
R606E	1 SET OF 10	14'-8" TO 22'-5"	BENT	SLAB BOT. LONG. SPAN 2
R707E	1 SET OF 13	25'-8" TO 42'-2"	BENT	SLAB BOT. LONG. SPAN 3
R708E	1 SET OF 12	18'-5" TO 28'-3"	BENT	SLAB BOT. LONG. SPAN 3
R409E	10	23'-0"	BENT	SLAB TOP LONG. SPAN 1
R810E	1 SET OF 14	24'-3" TO 32'-0"	BENT	SLAB TOP LONG. PIER 1
R811E	1 SET OF 13	20'-11" TO 24'-1"	BENT	SLAB TOP LONG. PIER 1
R812E	1 SET OF 14	21'-3" TO 32'-4"	BENT	SLAB TOP LONG. PIER 2
R813E	1 SET OF 13	16'-4" TO 25'-2"	BENT	SLAB TOP LONG. PIER 2
R414E	1 SET OF 10	17'-10" TO 27'-10"	BENT	SLAB TOP LONG. SPAN 3
R415E	209	13'-4"	STR.	SLAB TRANS. BOT. SPANS 1 THRU 6
R416E	153	13'-8"	STR.	SLAB TRANS. TOP SPANS 1 THRU 6
R517E	20	13'-8"	STR.	SLAB TRANS. TOP OVER PIERS 1, 2, 4 & 5
R518E	28	2'-11"	BENT	SLAB @ ENDS @ PIER 3
R619E	1 SET OF 13	31'-6" TO 36'-7"	BENT	SLAB BOT. LONG. SPAN 4
R620E	1 SET OF 12	22'-2" TO 29'-2"	BENT	SLAB BOT. LONG. SPAN 4
R621E	1 SET OF 11	27'-7" TO 43'-10"	BENT	SLAB BOT. LONG. SPAN 5
R622E	1 SET OF 10	14'-8" TO 22'-5"	BENT	SLAB BOT. LONG. SPAN 5
R723E	13	39'-4"	BENT	SLAB BOT. LONG. SPAN 6
R724E	12	27'-11"	BENT	SLAB BOT. LONG. SPAN 6
R425E	1 SET OF 10	17'-9" TO 23'-1"	BENT	SLAB TOP LONG. SPAN 4
R826E	1 SET OF 13	20'-9" TO 24'-2"	BENT	SLAB TOP LONG. PIER 4
R827E	1 SET OF 14	20'-11" TO 32'-0"	BENT	SLAB TOP LONG. PIER 4
R828E	1 SET OF 14	24'-7" TO 32'-4"	BENT	SLAB TOP LONG. PIER 5
R829E	1 SET OF 13	21'-5" TO 25'-1"	BENT	SLAB TOP LONG. PIER 5
R430E	10	25'-4"	BENT	SLAB TOP LONG. SPAN 6
R531E	14	4'-0"	STR.	SLAB @ PIER 6
R432E	4	12'-2"	STR.	BACKWALL @ PIER 6 HORIZ.
R433E	2	13'-4"	STR.	BACKWALL @ PIER 6 HORIZ.
R434E	4	4'-11'	BENT	BACKWALL @ PIER 6 VERT.
R435E	8	7'-5"	BENT	BACKWALL @ PIER 6 MASKWALL HORIZ.
R536E	4	6'-4"	BENT	BACKWALL @ PIER 6 RAILING
R537E	2	2'-11"	BENT	BACKWALL @ PIER 6 RAILING
R538E	2	3'-1"	BENT	BACKWALL @ PIER 6 RAILING
R539E	2	4'-1"	BENT	BACKWALL @ PIER 6 RAILING
R540E	13	11'-6"	BENT	BACKWALL @ PIER 6 VERT.
R541E	8	3'-1"	STR.	BACKWALL @ PIER 6 MASKWALL VERT.

AS-BUILT

MAR 1 4 2001

ENGINEERING PLANS PREPARED BY

AYRES ASSOCIATES
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3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David H. Schaffhoff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 19 98

S.A.P. NO. 55-622-34

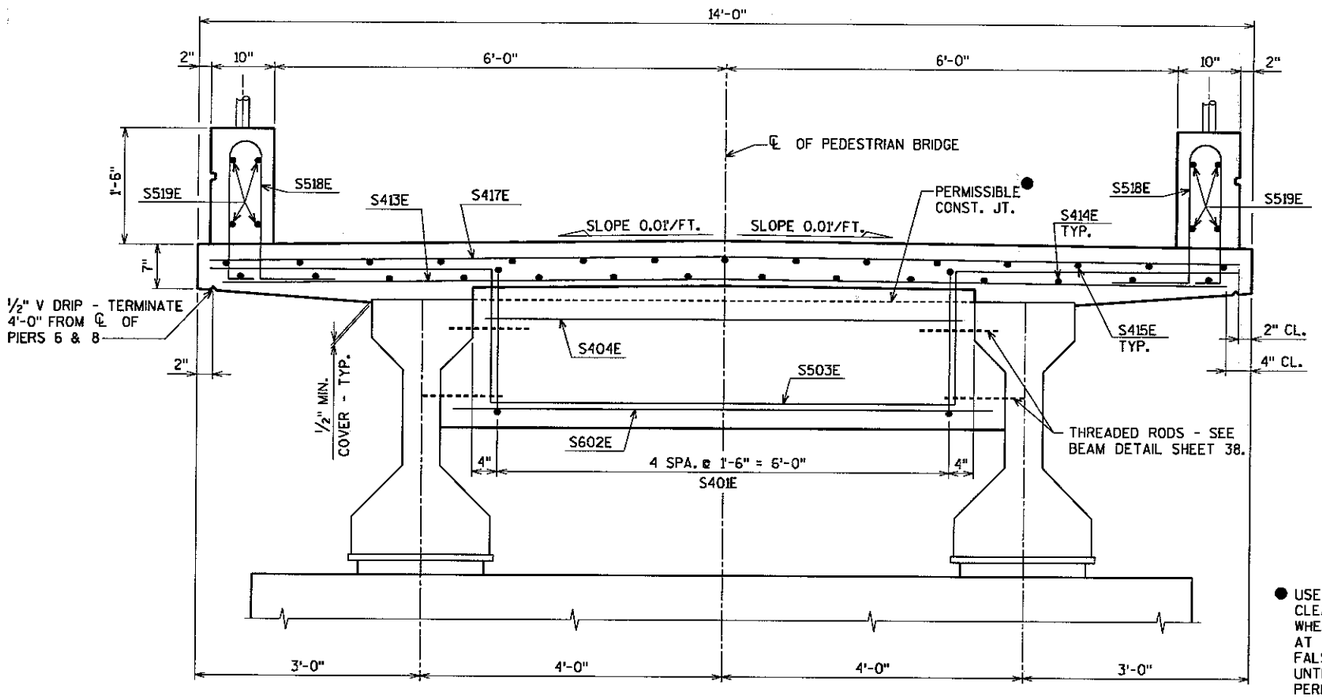
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CHK: CBM	CHK: CBM	

SHEET NO. 28 OF 66 SHEETS

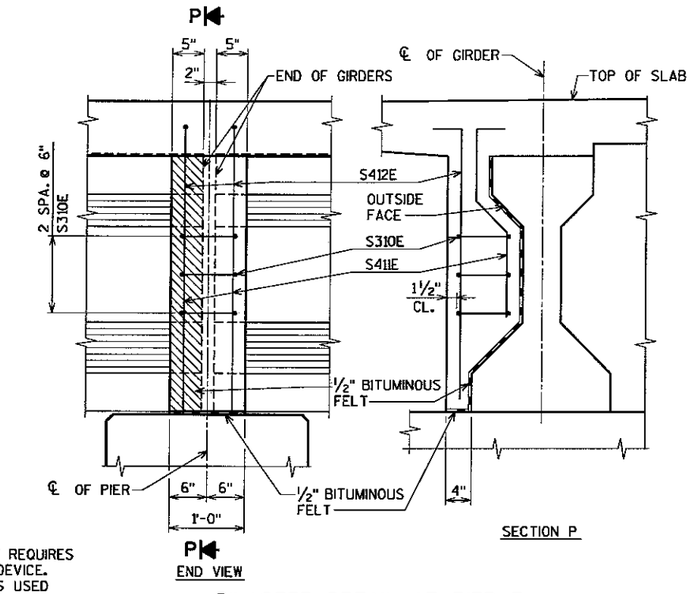
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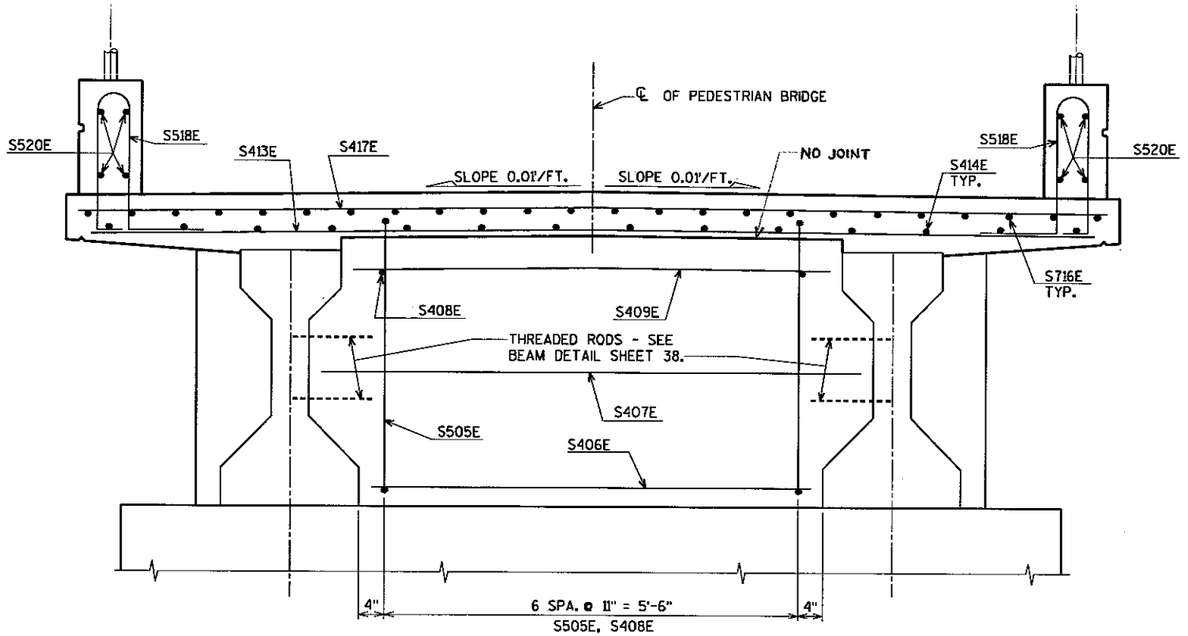


TRANSVERSE SECTION THRU DECK AT PIERS 6 AND 8

● USE OF CONSTRUCTION JOINT REQUIRES CLEARANCE FOR EXPANSION DEVICE. WHEN CONSTRUCTION JOINT IS USED AT THIS LOCATION, DIAPHRAGM FALSEWORK SHALL REMAIN IN PLACE UNTIL COMPLETION OF SLAB CURING PERIOD.



PILASTER DETAIL AT PIER 7



TRANSVERSE SECTION THRU DECK AT PIER 7

SUMMARY OF QUANTITIES FOR SUPERSTRUCTURE - SPANS 7 & 8

①	BRIDGE SLAB CONCRETE (3Y33A)	2330	SQ. FT.
②	RAILING CONCRETE (3Y46A)	334	LIN. FT.
③	REINFORCEMENT BARS (EPOXY COATED)	13450	POUND
	ELASTOMERIC BEARING ASSEMBLY TYPE 1	4	EACH
⑦	ELASTOMERIC BEARING PAD TYPE 3	2	EACH
	FLOOR DRAIN, TYPE 1	4	EACH
	EXPANSION JOINT DEVICES, TYPE 2	28	LIN. FT
	PRESTRESSED CONCRETE BEAMS, 40	332	LIN. FT
	DIAPHRAGMS FOR TYPE 40 PRESTRESSED BEAMS	30	LIN. FT
⑥	STRUCTURE CONCRETE (3Y43)	1.5	CU. YD.
	WIRE FENCE, DESIGN S-1 VINYL COATED	334	LIN. FT
④	½" BITUMINOUS FELT	8	SQ. FT.
④	¾" BITUMINOUS FELT	7	SQ. FT.
④	1" CORK	23	SQ. FT.
⑤	CHAIN LINK ENCLOSURE	334	LIN. FT.

① BRIDGE SLAB CONCRETE MIX NO. 3Y33A VOLUME IS APPROX. 63 CU. YD. THE VOLUME OF BRIDGE SLAB CONCRETE WAS COMPUTED USING AN AVERAGE STOOL HEIGHT OF 4"

② RAILING CONCRETE (3Y46A) IS APPROXIMATELY 16 CU. YD.

③ INCLUDES RAILING AND DECK REINFORCING BARS.

④ TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS.

⑤ TO BE BID AS AN ALTERNATE.

⑥ DIAPHRAGM CONCRETE BELOW PERMISSIBLE CONSTRUCTION JOINTS, PIER 6 AND 8

⑦ ELASTOMERIC PAD TO BE 1'-10" x 1'-10" x ½" THICK

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MAR 14 2001

ENGINEERING

REFERENCE FILES
DM = I-63
mingen1.dgn

CERTIFIED BY David R. Dahlstadt PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: SUPERSTRUCTURE SPANS 7 AND 8 TRANSVERSE SECTIONS

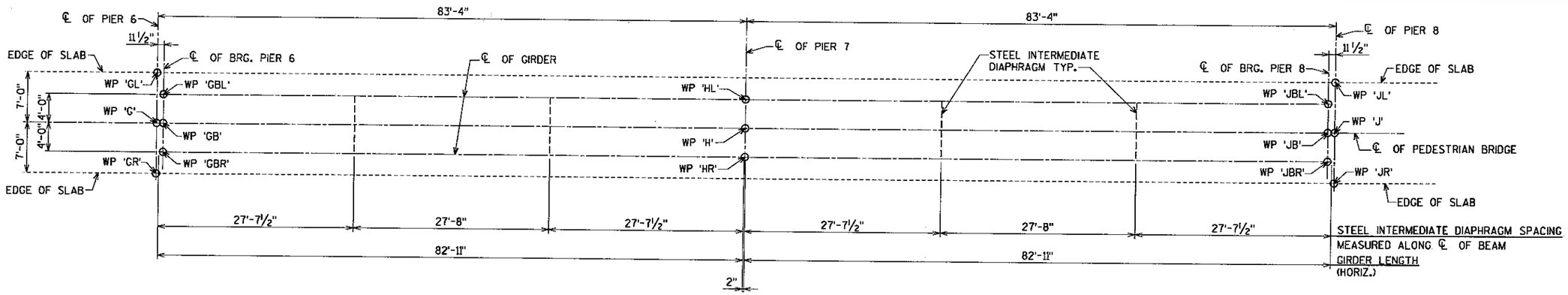
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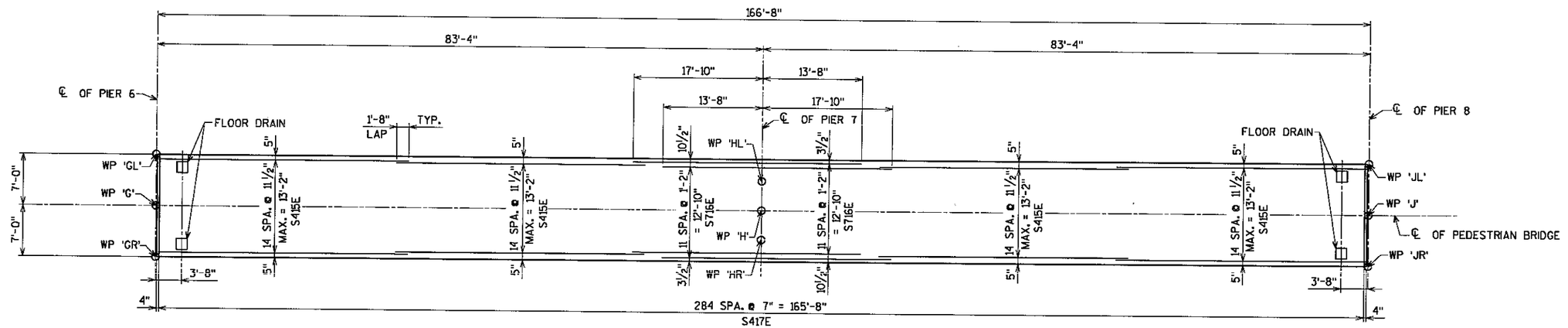
BRIDGE NO. 55562

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Eau Claire, WI 54701

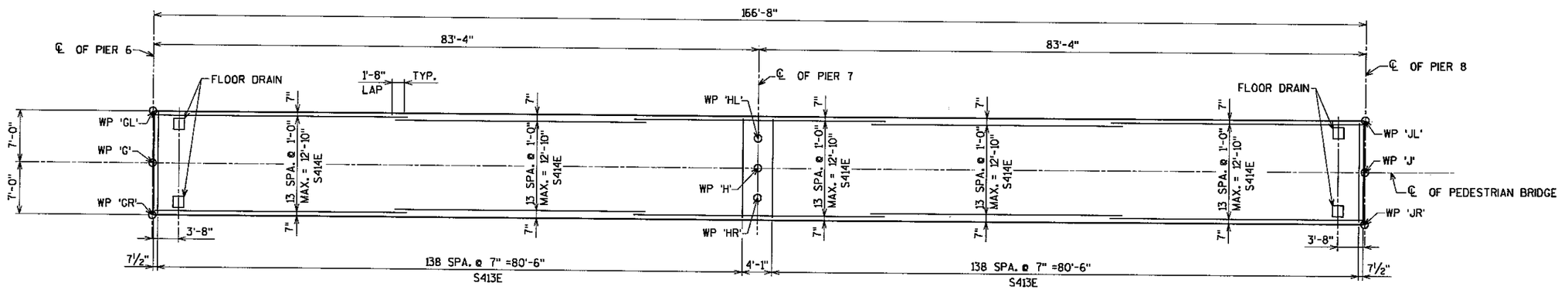
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DGN LEVELS ON = 1-63



FRAMING PLAN



DECK PLAN
TOP SLAB STEEL SHOWN



DECK PLAN
BOTTOM SLAB STEEL SHOWN

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CERTIFIED BY David H. Bentzloff PROFESSIONAL ENGINEER
REG. NO. 15433 4/13 1998

S.A.P. NO. 55-622-34

TITLE: SUPERSTRUCTURE SPANS 7 AND 8 FRAMING & DECK PLANS

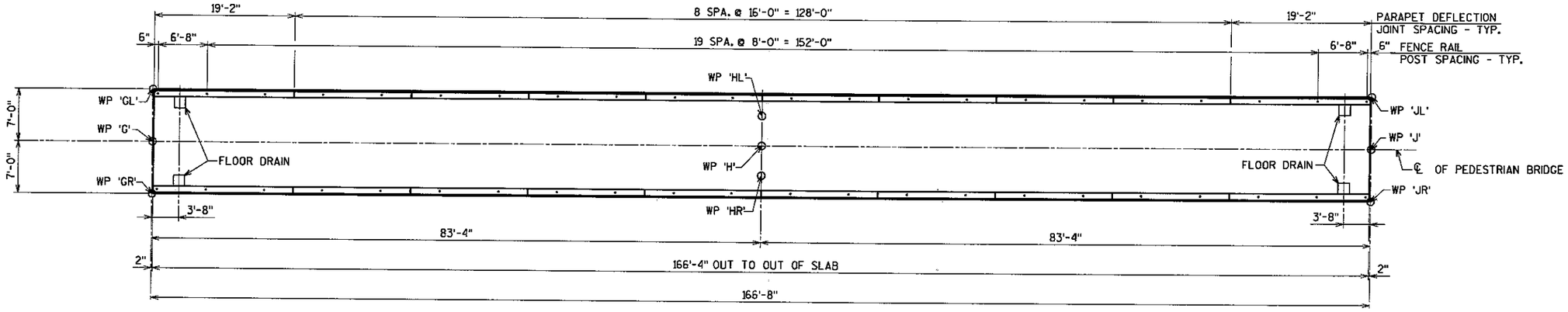
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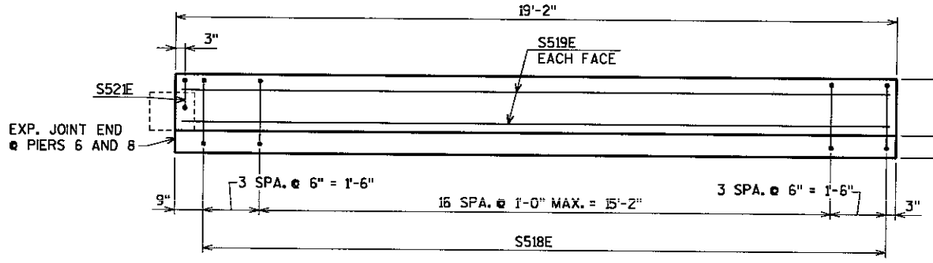
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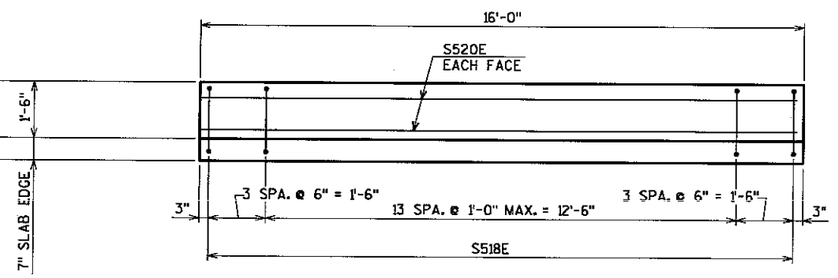
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DECK PLAN OF RAILING



CONCRETE RAILING ELEVATION @ ENDS



TYPICAL CONCRETE RAILING ELEVATION

REFERENCE FILES
DM = 1-63
stinnant.dgn

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PLANS PREPARED BY
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CERTIFIED BY David H Stinnant PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

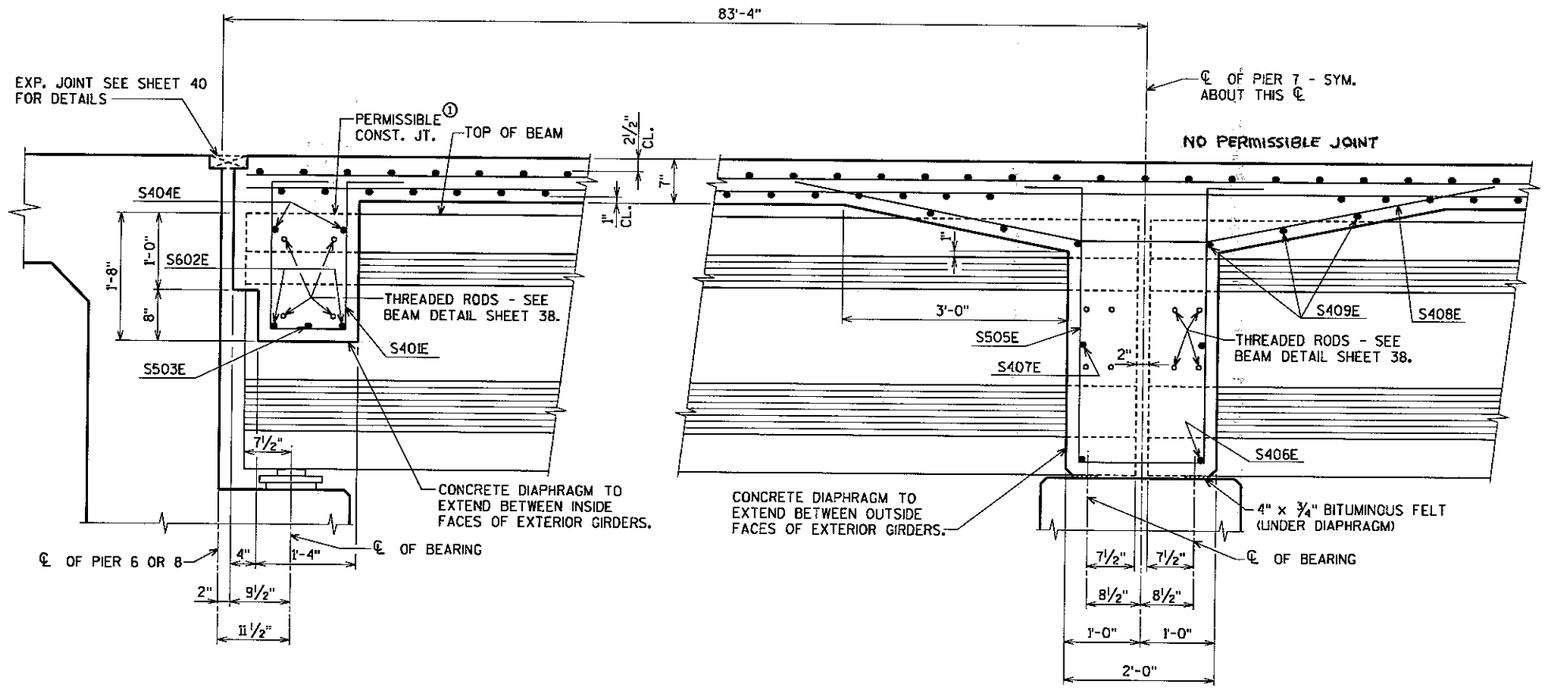
TITLE: SUPERSTRUCTURE SPANS 7 AND 8 CONCRETE RAILING

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SHEET NO. 31 OF 66 SHEETS

BRIDGE NO. 55562

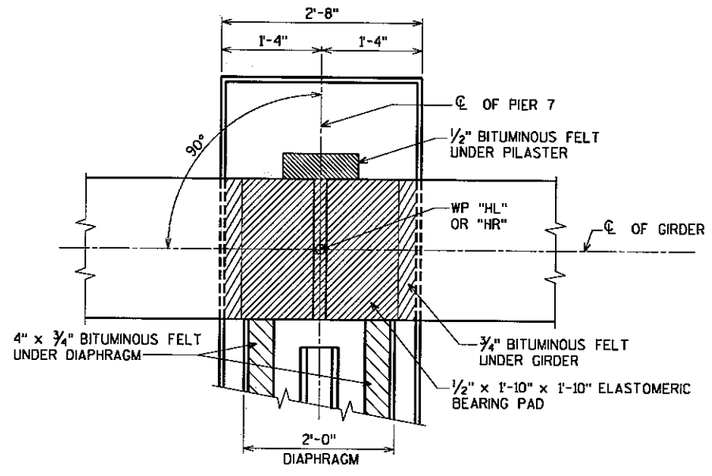
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AT PIERS 6 & 8

AT PIER 7

PART LONGITUDINAL SECTION



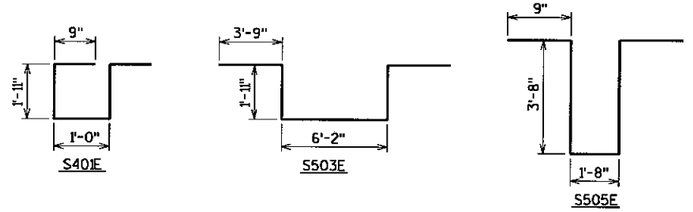
BEARING PLAN AT PIER 7

① USE OF CONSTRUCTION JOINT REQUIRES CLEARANCE FOR EXPANSION DEVICE. WHEN CONSTRUCTION JOINT IS USED AT THIS LOCATION, DIAPHRAGM FALSEWORK SHALL REMAIN IN PLACE UNTIL COMPLETION OF SLAB CURING PERIOD.

② FIELD CUT BARS AROUND FLOOR DRAINS. FIELD PATCH DAMAGE TO EPOXY COATING. COST FOR CUTTING AND PATCHING SHALL BE INCLUDED IN PRICE BID FOR "REINFORCEMENT BARS (EPOXY COATED)".

BILL OF REINFORCING FOR SUPERSTRUCTURE - SPANS 7 & 8

	BAR	NO.	LENGTH	SHAPE	LOCATION
	S401E	10	6'-0"	BENT	DIAPH. @ PIERS 6 & 8 VERT.
	S602E	4	7'-2"	STR.	DIAPH. @ PIERS 6 & 8 HORIZ.
	S503E	2	17'-2"	BENT	DIAPH. @ PIERS 6 & 8 HORIZ.
	S404E	4	6'-4"	STR.	DIAPH. @ PIERS 6 & 8 HORIZ.
	S505E	7	10'-2"	BENT	DIAPH. @ PIER 7 VERT.
	S406E	2	5'-10"	STR.	DIAPH. @ PIER 7 HORIZ.
	S407E	2	7'-2"	STR.	DIAPH. @ PIER 7 HORIZ.
	S408E	7	9'-4"	BENT	DIAPH. @ PIER 7 @ HAUNCH
	S409E	6	6'-4"	STR.	DIAPH. @ PIER 7 @ HAUNCH
	S310E	6	3'-3"	BENT	PILASTER
	S411E	4	3'-3"	BENT	PILASTER
	S412E	4	4'-1"	BENT	PILASTER
②	S413E	278	13'-4"	STR.	SLAB TRANS. BOT.
②	S414E	70	34'-7"	STR.	SLAB LONG. BOT.
②	S415E	60	34'-3"	STR.	SLAB LONG. TOP
	S716E	24	31'-6"	STR.	SLAB LONG. TOP
②	S417E	285	13'-8"	STR.	SLAB TRANS. TOP
	S518E	412	5'-0"	BENT	CONCRETE RAILING TIE
	S519E	16	18'-9"	STR.	CONCRETE RAILING HORIZ.
	S520E	64	15'-7"	STR.	CONCRETE RAILING HORIZ.
	S521E	4	2'-11"	BENT	CONCRETE RAILING VERT. @ ENDS



AS-BUILT

MAR 14 2001

ENGINEER

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David H. Dahlke PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 19 98

S.A.P. NO. 55-622-34

TITLE: SUPERSTRUCTURE SPANS 7 AND 8 DETAILS

DES: RCK DR: GLD APPROVED: S-7-98
CHK: PWD CHK: CBM

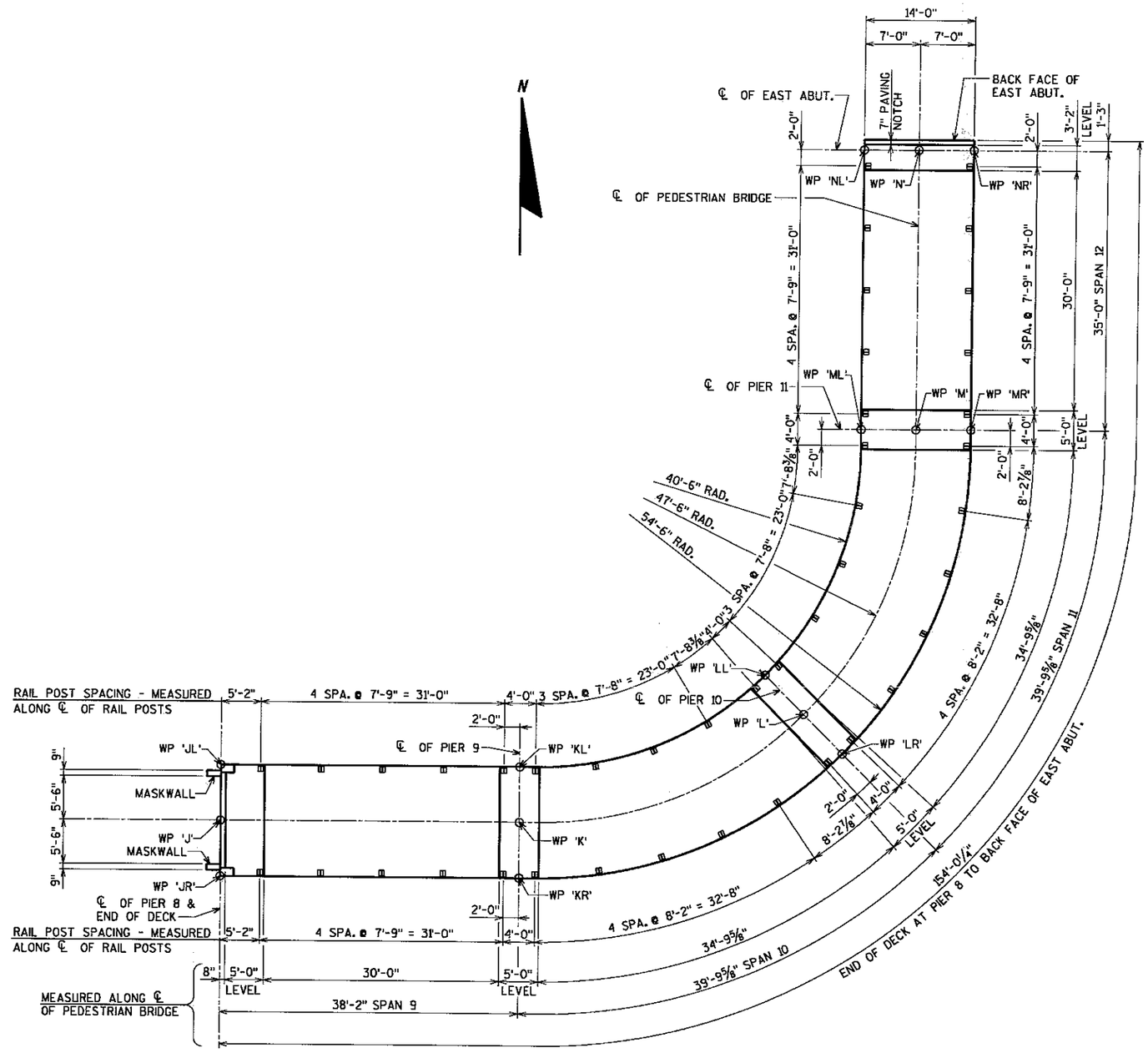
SHEET NO. 32 OF 66 SHEETS

BRIDGE NO. 55562

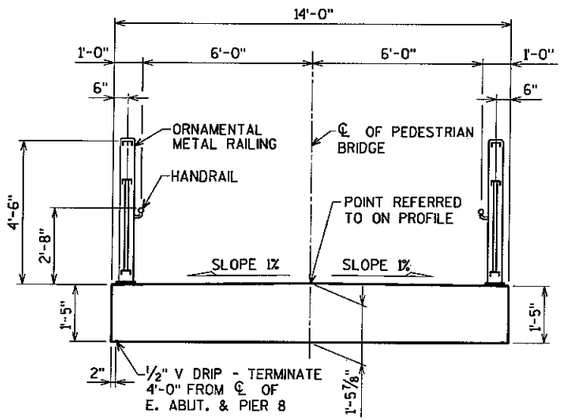
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REFERENCE FILES



SLAB PLAN - SPANS 9 THRU 12



TYPICAL SECTION THRU SPANS 9 THRU 12

SUMMARY OF QUANTITIES FOR SUPERSTRUCTURE - SPANS 9 THRU 12

①	BRIDGE SLAB CONCRETE (3Y33A)	2160	SQ. FT.
②	RAILING CONCRETE (3Y46A)	3.5	LIN. FT.
	ORNAMENTAL METAL RAILING	305	LIN. FT.
③	REINFORCEMENT BARS (EPOXY COATED)	15180	POUND
④	ELASTOMERIC BEARING PAD TYPE 1	1	EACH

① BRIDGE SLAB CONCRETE MIX NO. 3Y33A VOLUME IS APPROX. 117 CU. YD.
② RAILING CONCRETE (3Y46A) IS APPROXIMATELY 0.2 CU. YD.
③ INCLUDES RAILING AND SLAB REINFORCING BARS.
④ ELASTOMERIC PAD TO BE 2'-3" x 12'-3" x 1/2" THICK

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Eau Claire, WI 54701

CERTIFIED BY _____ PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: SUPERSTRUCTURE SPANS 9 THRU 12 LAYOUT

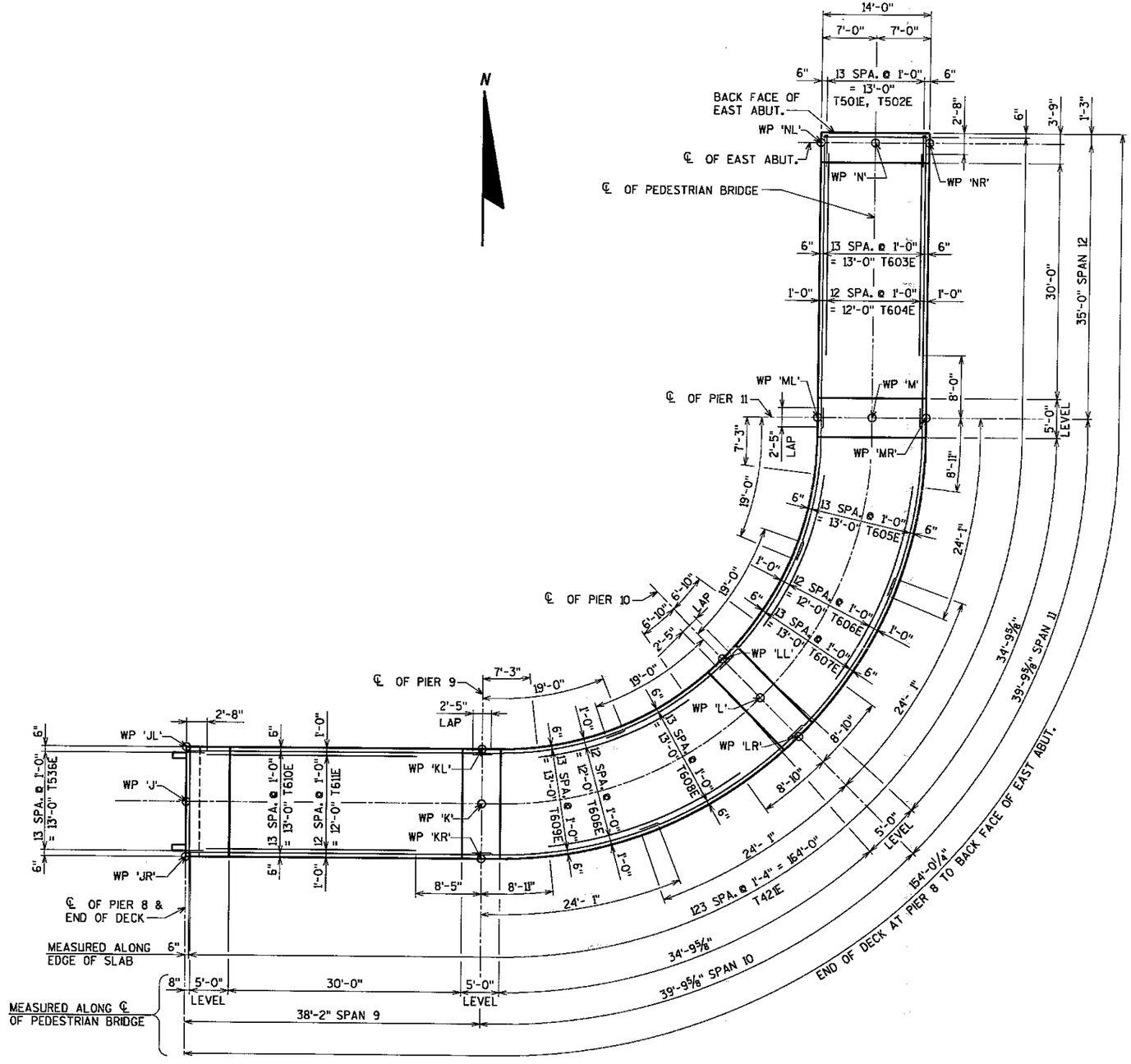
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CHK: CBM | CHK: CBM

SHEET NO. 33 OF 66 SHEETS

BRIDGE NO. 55562

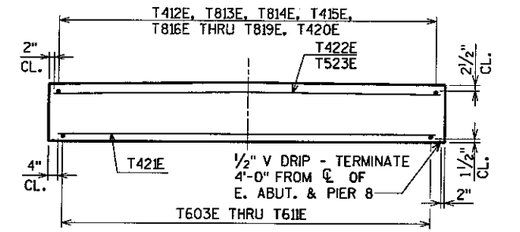
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SLAB PLAN - SPANS 9 THRU 12

BOTTOM SLAB STEEL SHOWN



TYPICAL SECTION THRU DECK - SPANS 9 THRU 12

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3433 Oakwood Hills Parkway
Eau Claire, WI 54701

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S.A.P. NO. 55-622-34

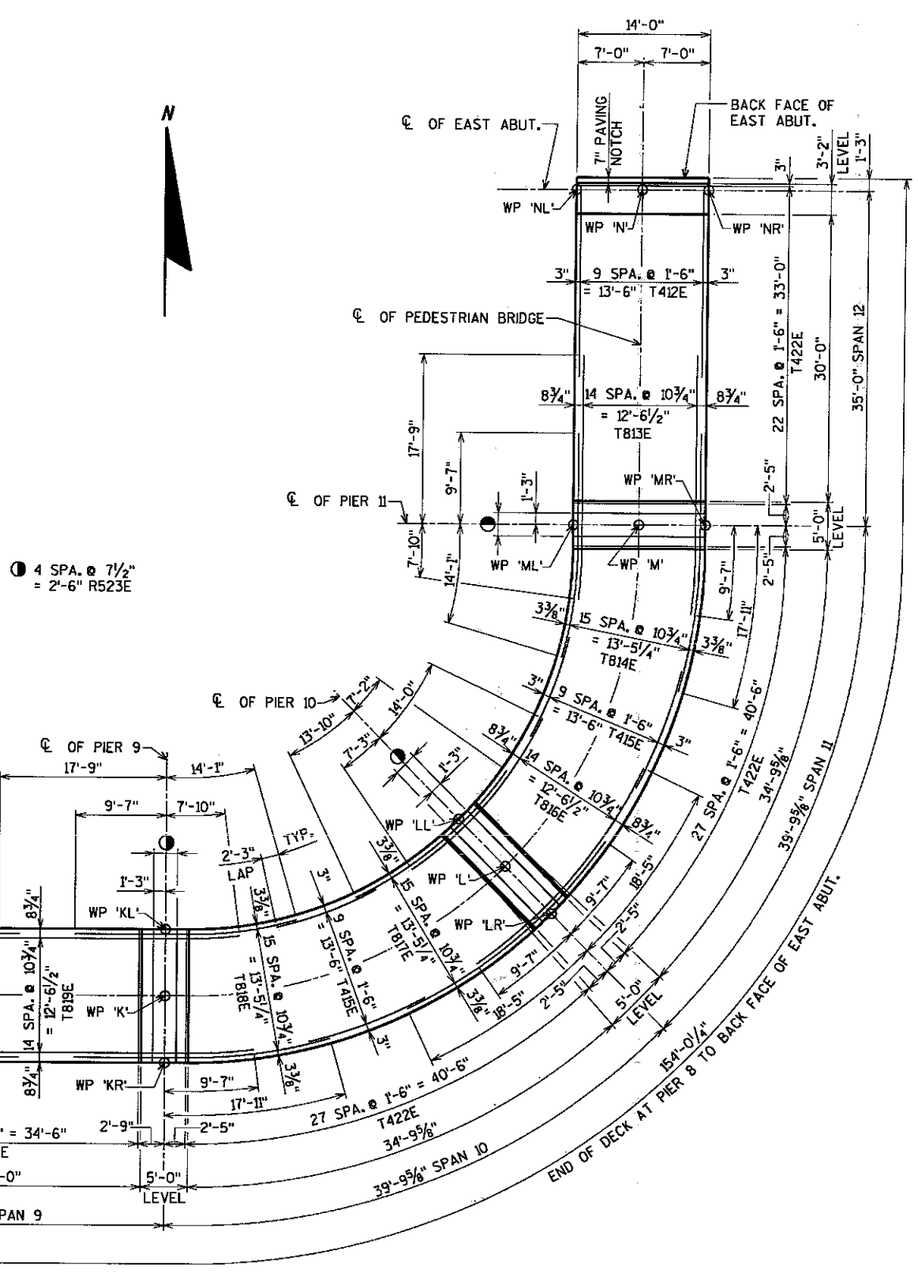
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CHK: CBM	CHK: CBM	

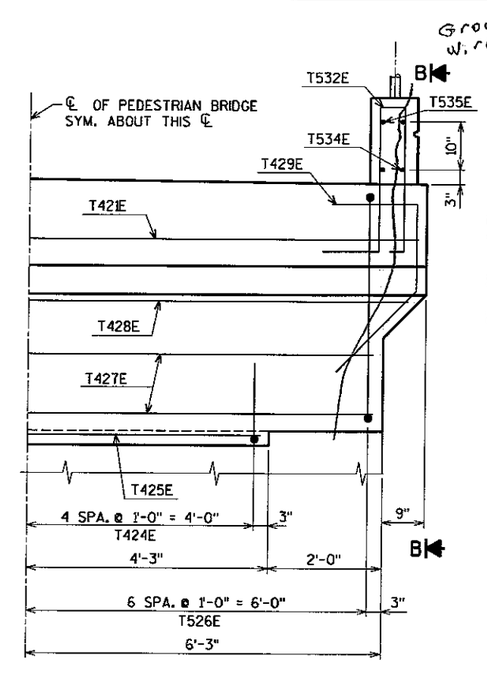
SHEET NO. 34 OF 66 SHEETS

BRIDGE NO. 55562

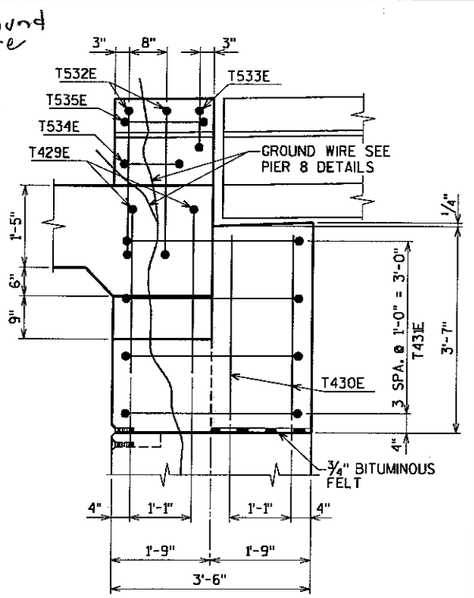
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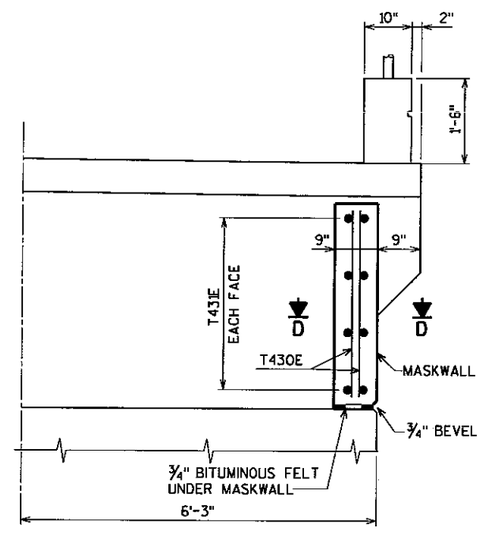
SLAB PLAN - SPANS 9 THRU 12
TOP SLAB STEEL SHOWN



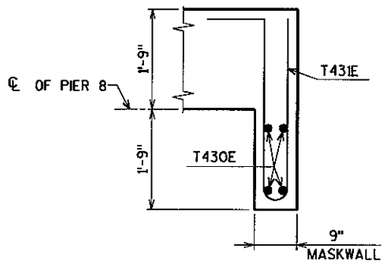
SECTION A



SECTION B



SECTION C



SECTION D

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MAR 14 2001

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CERTIFIED BY David F. Bartlaff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 19 98

S.A.P. NO. 55-622-34

TITLE: SUPERSTRUCTURE SPANS 9 THRU 12 TOP REINFORCING LAYOUT

DES: PWD | DR: GLD | APPROVED: 5-7-98
CHK: CBM | CHK: CBM

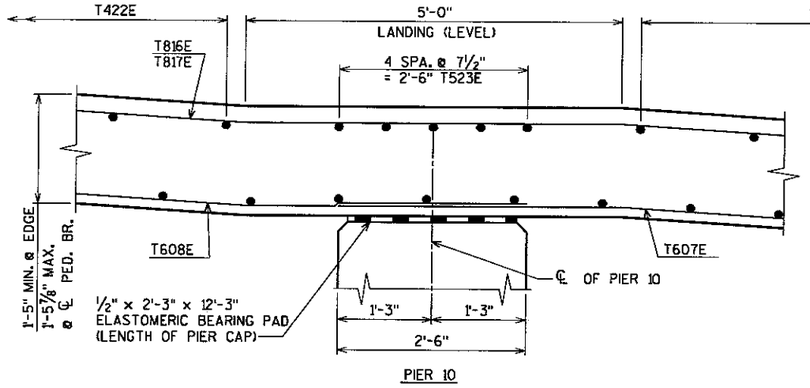
SHEET NO. 35 OF 66 SHEETS

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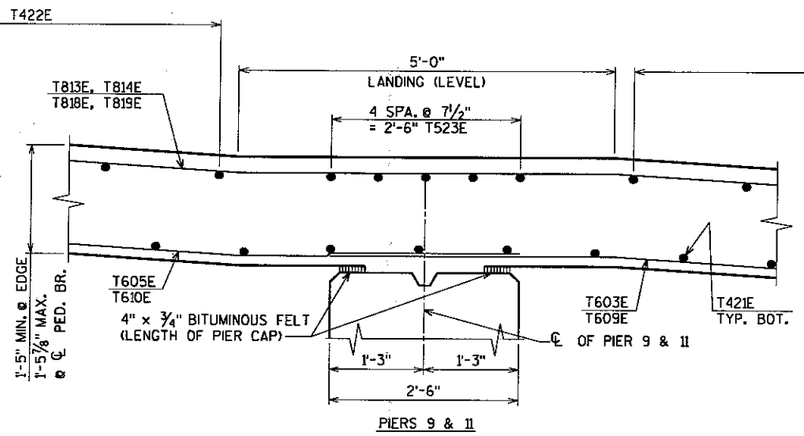
PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

REFERENCE FILES
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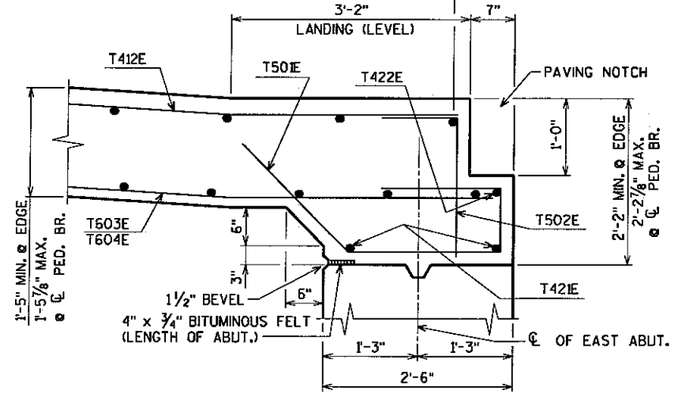
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PIER 10

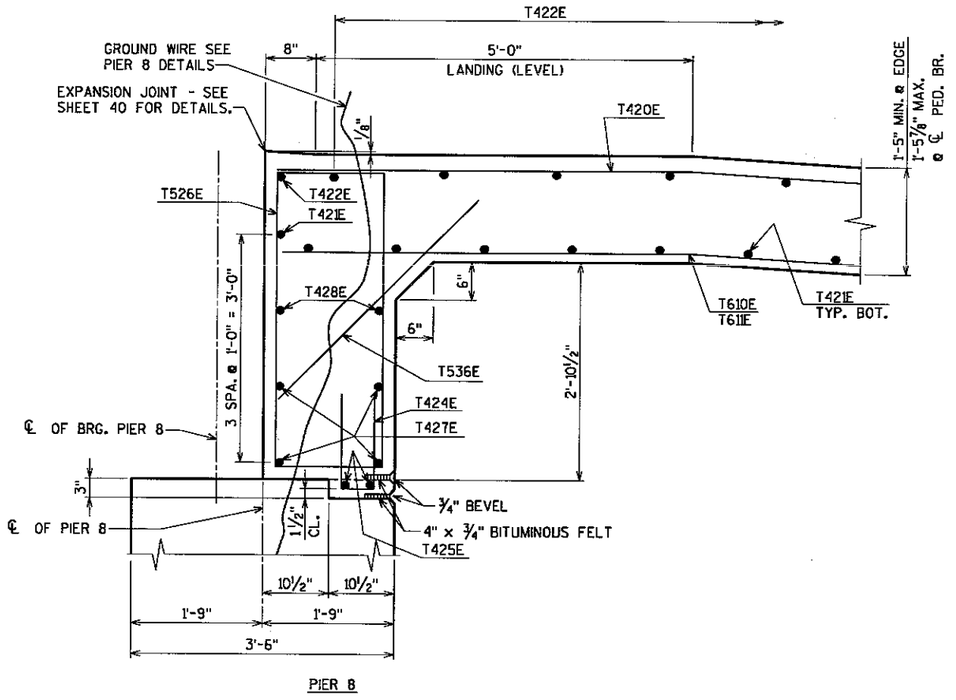


PIERS 9 & 11



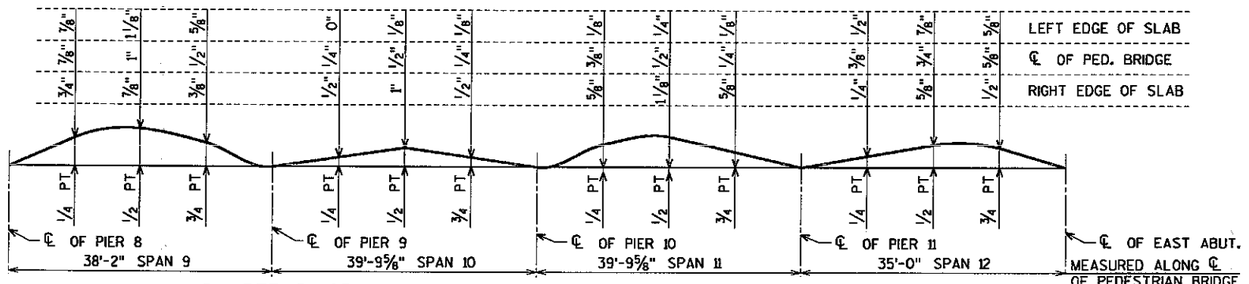
EAST ABUT.

PART LONGITUDINAL SECTION



PIER 8

PART LONGITUDINAL SECTION



CAMBER DIAGRAM - SPANS 9 THRU 12

CAMBER SPANS AS SHOWN TO PROVIDE FOR DEADLOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

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MAR 14 2001

ENGINEERING

PLANS PREPARED BY
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3433 Oakwood Hills Parkway
Eau Claire, WI 54701

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S.A.P. NO. 55-622-34

TITLE: SUPERSTRUCTURE SPANS 9 THRU 12 PART LONGITUDINAL SECTIONS

DES: PWD DR: GLD CHK: CBM CHK: CBM

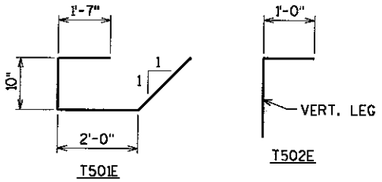
APPROVED: 5-7-98

SHEET NO. 36 OF 66 SHEETS

BRIDGE NO. 55562

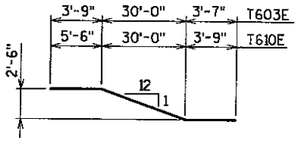
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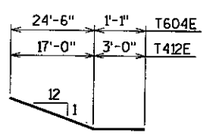
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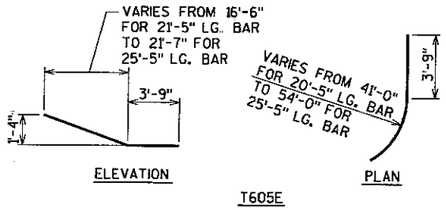


T501E

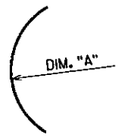
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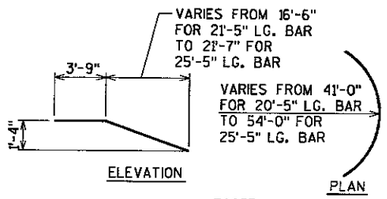




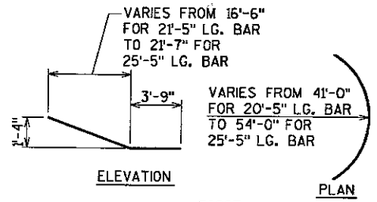
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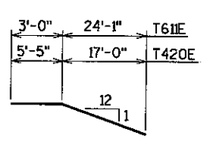
BAR	DIM. "A"
T606E	VARIES FROM 41'-6" FOR 21'-1" LG. BAR TO 53'-6" FOR 27'-2" LG. BAR
T415E	VARIES FROM 40'-9" FOR 11'-4" LG. BAR TO 54'-3" FOR 13'-6" LG. BAR

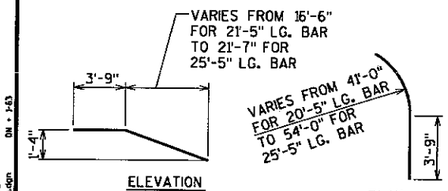


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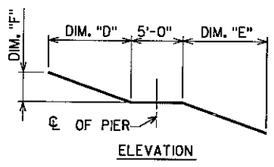


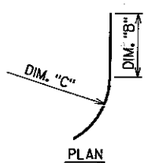
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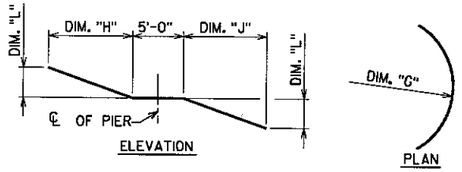


T609E

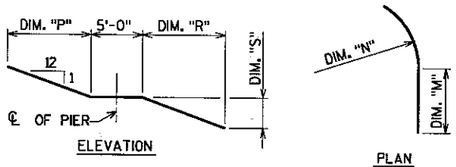




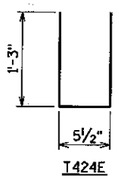
BAR	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"	DIM. "F"
T813E	20'-3"	VARIES FROM 41'-2¾" FOR 25'-8" LG. BAR TO 53'-9¼" FOR 27'-5" LG. BAR	VARIES FROM 5'-4" FOR 25'-8" LG. BAR TO 7'-1" FOR 27'-5" LG. BAR	15'-3"	6"
T814E	9'-7"	VARIES FROM 40'-9⅜" FOR 23'-9" LG. BAR TO 54'-2⅝" FOR 27'-7" LG. BAR	VARIES FROM 11'-7" FOR 23'-9" LG. BAR TO 15'-5" FOR 27'-7" LG. BAR	7'-1"	1'-1"



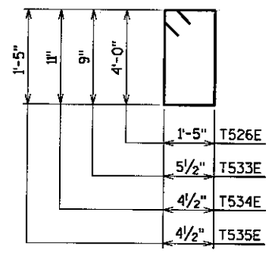
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T816E	VARIES FROM 41'-2¾" FOR 21'-4" LG. BAR TO 53'-9¼" FOR 28'-1" LG. BAR	VARIES FROM 4'-9" FOR 21'-4" LG. BAR TO 7'-1" FOR 28'-1" LG. BAR	VARIES FROM 11'-6" FOR 21'-4" LG. BAR TO 15'-11" FOR 28'-1" LG. BAR	1'-1"	6"
T817E	VARIES FROM 40'-9⅜" FOR 21'-1" LG. BAR TO 54'-2⅝" FOR 28'-1" LG. BAR	VARIES FROM 11'-4" FOR 21'-1" LG. BAR TO 15'-11" FOR 28'-1" LG. BAR	VARIES FROM 4'-8" FOR 21'-1" LG. BAR TO 7'-1" FOR 28'-1" LG. BAR	6"	1'-1"

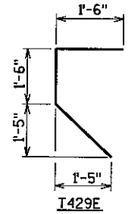


BAR	DIM. "M"	DIM. "N"	DIM. "P"	DIM. "R"	DIM. "S"
T818E	12'-1"	VARIES FROM 40'-9⅜" FOR 23'-9" LG. BAR TO 54'-2⅝" FOR 27'-6" LG. BAR	7'-1"	VARIES FROM 11'-7" FOR 23'-9" LG. BAR TO 15'-5" FOR 27'-6" LG. BAR	1'-1"
T819E	20'-3"	VARIES FROM 41'-2¾" FOR 25'-11" LG. BAR TO 53'-9¼" FOR 27'-8" LG. BAR	15'-3"	VARIES FROM 5'-4" FOR 25'-11" LG. BAR TO 7'-1" FOR 27'-8" LG. BAR	6"

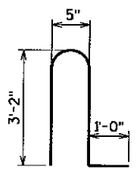


T424E

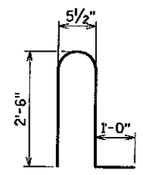




T429E



T431



T532

BILL OF REINFORCING FOR SUPERSTRUCTURE - SPANS 9 THRU 12

BAR	NO.	LENGTH	SHAPE	LOCATION
T501E	14	6'-3"	BENT	EAST ABUT. HAUNCH
T502E	14	2'-9"	BENT	EAST ABUT. HAUNCH
T603E	14	37'-5"	BENT	SLAB BOT. LONG. SPAN 12
T604E	13	25'-8"	BENT	SLAB BOT. LONG. SPAN 12
T605E	1 SET OF 14	20'-5" TO 25'-5"	BENT	SLAB BOT. LONG. SPAN 11
T606E	2 SET OF 13	21'-1" TO 27'-2"	BENT	SLAB BOT. LONG. SPAN 10 & 11
T607E	1 SET OF 14	20'-5" TO 25'-5"	BENT	SLAB BOT. LONG. SPAN 11
T608E	1 SET OF 14	20'-5" TO 25'-5"	BENT	SLAB BOT. LONG. SPAN 10
T609E	1 SET OF 14	20'-5" TO 25'-5"	BENT	SLAB BOT. LONG. SPAN 10
T610E	14	39'-4"	BENT	SLAB BOT. LONG. SPAN 9
T611E	13	27'-2"	BENT	SLAB BOT. LONG. SPAN 9
T412E	10	20'-1"	BENT	SLAB TOP LONG. SPAN 12
T813E	1 SET OF 15	25'-8" TO 27'-5"	BENT	SLAB TOP LONG. PIER 11
T814E	1 SET OF 16	23'-9" TO 27'-7"	BENT	SLAB TOP LONG. PIER 11
T415E	2 SET OF 10	11'-4" TO 13'-6"	BENT	SLAB TOP LONG. SPAN 10 & 11
T816E	1 SET OF 15	21'-4" TO 28'-1"	BENT	SLAB TOP LONG. PIER 10
T817E	1 SET OF 16	21'-1" TO 28'-1"	BENT	SLAB TOP LONG. PIER 10
T818E	1 SET OF 16	23'-9" TO 27'-6"	BENT	SLAB TOP LONG. PIER 9
T819E	1 SET OF 15	25'-11" TO 27'-8"	BENT	SLAB TOP LONG. PIER 9
T420E	10	22'-6"	BENT	SLAB TOP LONG. SPAN 9
T421E	127	13'-4"	STR.	SLAB TRANS. BOT. SPANS 9 THRU 12
T422E	105	13'-8"	STR.	SLAB TRANS. TOP SPANS 9 THRU 12
T523E	15	13'-8"	STR.	SLAB TRANS. TOP OVER PIERS 9. 10. & 11
T424E	9	2'-10"	BENT	BACKWALL ℄ PIER 8 NOTCH VERT.
T425E	2	8'-1"	STR.	BACKWALL ℄ PIER 8 NOTCH HORIZ.
T526E	13	11'-6"	BENT	BACKWALL ℄ PIER 8 VERT.
T427E	4	12'-2"	STR.	BACKWALL ℄ PIER 8 HORIZ.
T428E	2	13'-4"	STR.	BACKWALL ℄ PIER 8 HORIZ.
T429E	4	4'-11"	BENT	BACKWALL ℄ PIER 8 VERT.
T430E	8	3'-1"	STR.	BACKWALL ℄ PIER 8 MASKWALL VERT.
T431E	8	7'-5"	BENT	BACKWALL ℄ PIER 8 MASKWALL HORIZ.
T532E	4	6'-4"	BENT	BACKWALL ℄ PIER 8 RAILING
T533E	2	2'-11"	BENT	BACKWALL ℄ PIER 8 RAILING
T534E	2	3'-1"	BENT	BACKWALL ℄ PIER 8 RAILING
T535E	2	4'-1"	BENT	BACKWALL ℄ PIER 8 RAILING
T536E	14	4'-0"	STR.	SLAB ℄ PIER 8

AS-BUILT

MAR 14 2001

ENGINEERING

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David H. Bentzloff
PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: SUPERSTRUCTURE SPANS 9 THRU 12 BILL OF REINFORCING

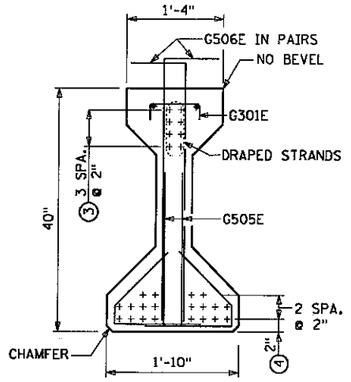
DES: PWD	DR: GLD	APPROVED: 5-7-98
CHK: CBM	CHK: CBM	

SHEET NO. 37 OF 66 SHEETS

BRIDGE NO. 55562

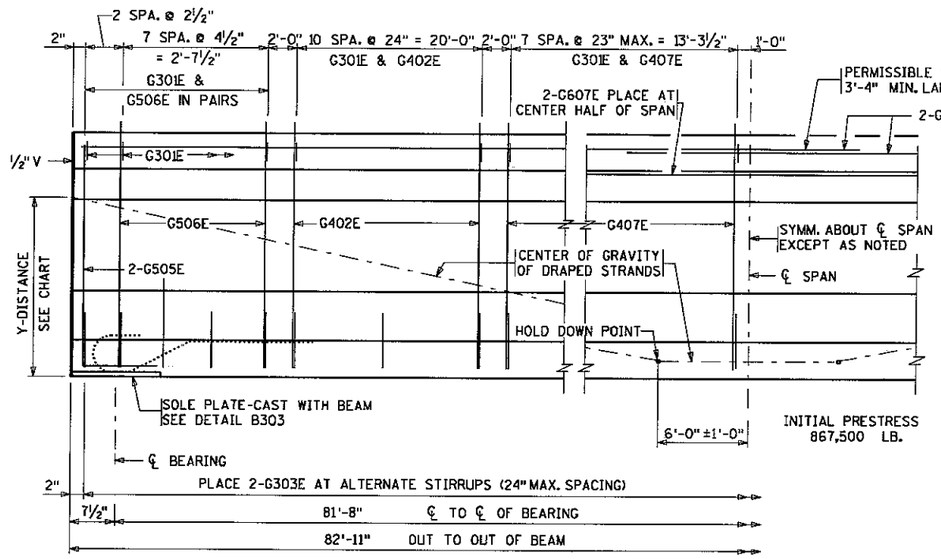
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0260sub.dgn
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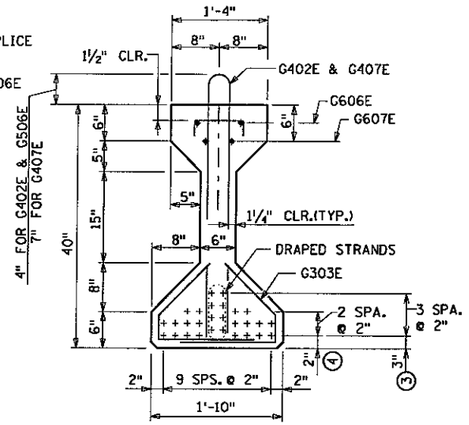


END VIEW

CUT STRANDS FLUSH WITH CONCRETE PAINT ENDS WITH AN APPROVED GRAY EPOXY EXCEPT AS NOTED



BEAM ELEVATION



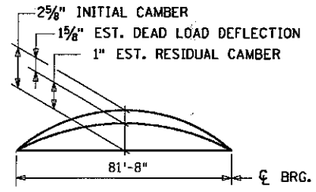
SECTION AT ℄ SPAN

③ DRAPED STRANDS
④ STRAIGHT STRANDS

Y DISTANCES (IN INCHES)			
	NO.	℄ SPAN	END
STRAIGHT STRANDS	20	3.6	
DRAPED STRANDS	8	6	34.0 □
TOTAL STRANDS	28	4.3	

Y = DISTANCE TO CENTER OF GRAVITY OF STRANDS FROM BOTTOM OF BEAM. ALL STRANDS SPACED 2" CENTER TO CENTER, HORIZONTALLY AND VERTICALLY, EXCEPT AS NOTED.

□ A TOLERANCE OF ± 1" WILL BE PERMITTED IN THIS DIMENSION.

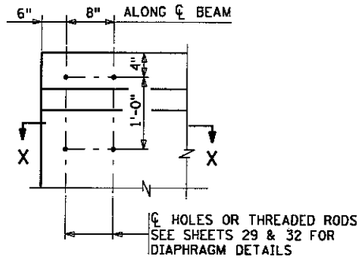


CAMBER DIAGRAM

INITIAL CAMBER IS GIVEN AFTER DIAPHRAGMS ARE IN PLACE.

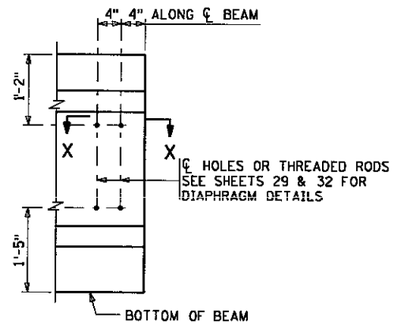
DEAD LOAD DEFLECTION SHOWN IS FOR WEIGHT OF SLAB, WEARING COURSE, RAILING, SIDEWALK AND MEDIAN WHERE APPLICABLE.

ENGINEER WILL TAKE ELEVATIONS AT TOP OF BEAMS AFTER ERECTION AND WILL ALLOW FOR DEFLECTION SHOWN TO ENABLE CONTRACTOR TO BUILD FORMS TO CORRECT GRADE AND SPECIFIED SLAB THICKNESS.



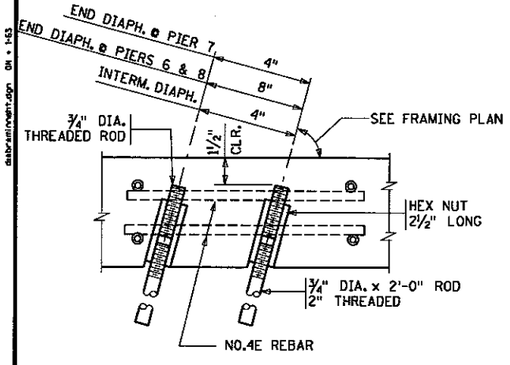
CONCRETE END DIAPHRAGM

(PIERS 6 & 8)



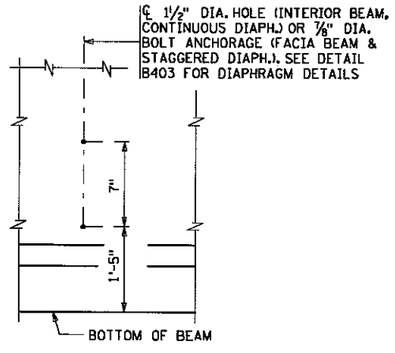
CONCRETE END DIAPHRAGM

(PIER 7)

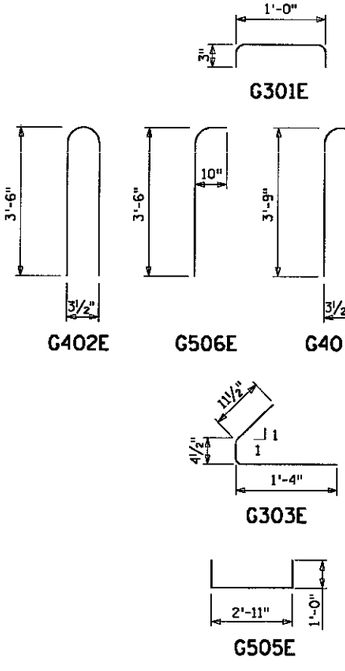


SECTION X-X

USE AT FACIA BEAM AND INTERIOR BEAMS WITH STAGGERED DIAPHRAGMS



STEEL INTERMEDIATE DIAPHRAGM



GENERAL NOTES:

PRESTRESSING STRANDS SHALL BE ½" DIA. 7-WIRE LOW RELAXATION STRAND, CONFORMING TO ASTM A416, GRADE 270.

TOPS OF BEAMS SHALL BE ROUGH FLOATED AND BROOMED TRANSVERSELY FOR BOND.

PROVIDE HANDLING HOOKS OR DEVICES AS REQUIRED BY CONTRACTOR.

EACH BEAM SHALL BE MARKED, SHOWING BRIDGE NUMBER, CASTING DATE, AND INDIVIDUAL IDENTIFICATION LETTERS AND NUMBERS. MARKINGS SHALL BE MADE ON THE FACE OF THE BEAM, NEAR THE END, SO LOCATED THAT THEY WILL BE EXPOSED AFTER THE END DIAPHRAGMS HAVE BEEN CAST. FACIA BEAMS SHALL BE MARKED ON THE INSIDE FACE. ALL MARKINGS SHALL BE STENCILED AND BE CLEARLY LEGIBLE. FOR LOCATION OF BEAMS, SEE FRAMING PLAN.

ALL MATERIAL AND WORK SHOWN OR NOTED ON THIS SHEET SHALL BE INCLUDED IN UNIT PRICE BID FOR PRESTRESSED CONCRETE BEAMS. SEE SPEC. 2405.

SEE FRAMING PLAN FOR BEAM END MARKED "X" AND DIAPHRAGM SPACING.

APPROXIMATE WEIGHT OF BEAM IS 22 TONS.

AS AN ALTERNATE TO THE DIAPHRAGM ANCHORAGES SHOWN, THE CONTRACTOR MAY SUBMIT DETAILS OF A CAST-IN-PLACE ANCHORAGE TO THE ENGINEER FOR APPROVAL. ANCHORAGE MUST PROVIDE AN ULTIMATE PULL OUT STRENGTH OF 15 KIPS PER ANCHORAGE.

MINIMUM CONCRETE STRENGTH - P.S.I.		
	① f'ci	② f'c
REQUIRED MIN. CONCRETE STRENGTH	5,000	6,500

① MINIMUM CONCRETE STRENGTH AT TIME OF PRESTRESS TRANSFER.

② MINIMUM CONCRETE STRENGTH WHEN BEAM CAN BE TRANSPORTED AND INSTALLED.

AS-BUILT

MAR 14 2001

ENGINEERING

REFERENCE FILES
dgn = 1-63
data\en\ovrart.dgn

CERTIFIED BY David A. Danzloff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 19 98

S.A.P. NO. 55-622-34

TITLE: 40" PRESTRESSED CONCRETE BEAM (PRETENSIONED) TYPE 40

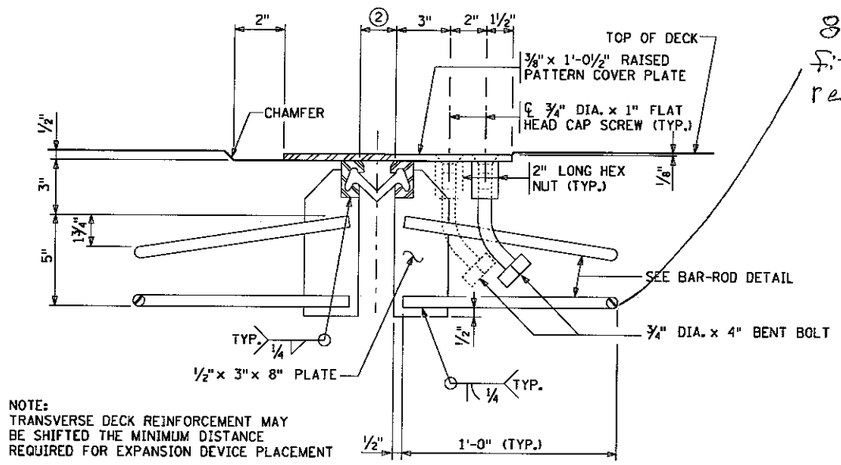
DES: RCK	DR: GLD	APPROVED: 5-7-98
CHK: CBM	CHK: CBM	

SHEET NO. 38 OF 66 SHEETS

BRIDGE NO. 55562

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

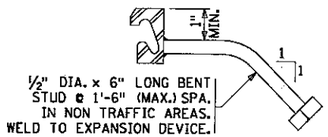
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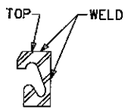
NOTE:
TRANSVERSE DECK REINFORCEMENT MAY BE SHIFTED THE MINIMUM DISTANCE REQUIRED FOR EXPANSION DEVICE PLACEMENT

SECTION D

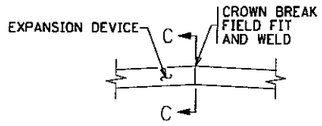
8½" Depth does not fit in Slab, cut off & replace bottom Anchor



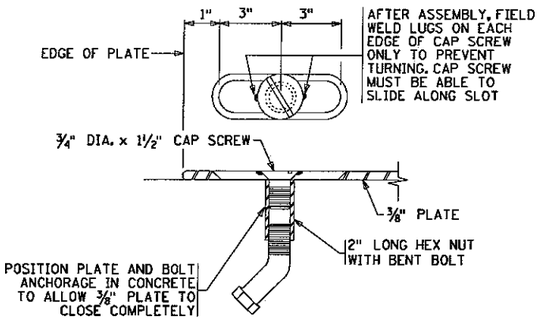
BENT STUD DETAIL



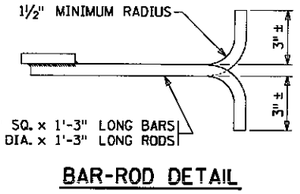
SECTION C



DETAIL "B"



DETAIL "A"



BAR-ROD DETAIL

NOTES:

GALVANIZE STRUCTURAL STEEL AFTER FABRICATION AS PER SPEC. 3394. GALVANIZE FASTENERS AS PER SPEC. 3392.

JOINTS IN EXTRUSION SHALL BE LOCATED AT BREAKS IN TRANSVERSE PROFILE AND AS OTHERWISE REQUIRED. JOINTS SHALL BE CLOSE FIT AND WELDED. REPAIR AFTER WELDING AS PER SPEC. 2471.3L.

STRUCTURAL STEEL SHALL COMPLY WITH SPEC. 3306 OR SPEC. 3309.

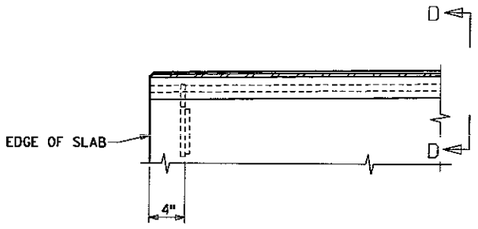
EXPANSION DEVICE SHALL BE STRAIGHTENED TO A TOLERANCE OF ⅛" IN 10 FEET.

CAP SCREWS SHALL BE COUNTERSUNK 1/16" BELOW TOP OF PLATE.

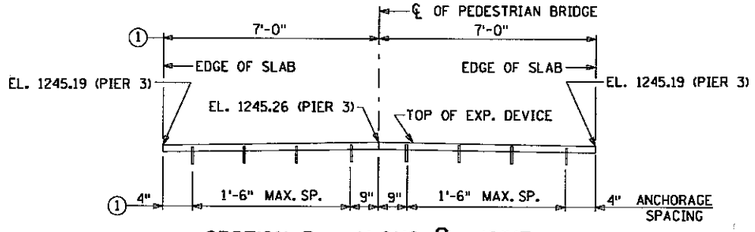
LENGTH OF PAYMENT FOR DEVICE IS FROM OUT TO OUT OF EXTRUSION ALONG CENTERLINE OF JOINT.

① DIMENSIONS ARE ALONG CENTERLINE OF JOINT.

② 2" AT 45°F; 2" AT 90°F



SECTION THRU SLAB



SECTION B - ALONG ℄ JOINT
(ELEVATIONS SHOWN ARE ½" BELOW TOP OF SLAB @ ℄ JT.)

AS-BUILT

MAR 14 2001

ENGINEERING

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David H Ondroff
PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: EXPANSION DEVICE, TYPE 1
AT PIER 3

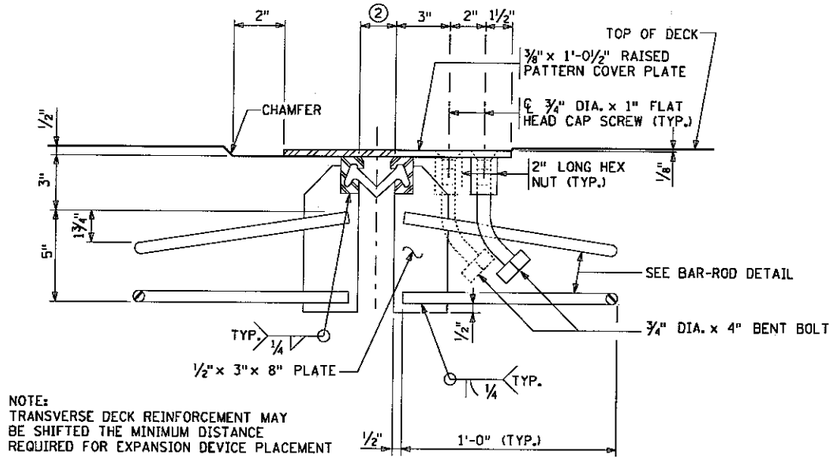
DES: CBM | DR: GLD | APPROVED: 5-7-98
CHK: PWD | CHK: CBM

SHEET NO. 39 OF 66 SHEETS

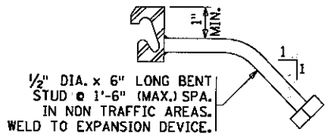
BRIDGE NO. 55562

REFERENCE FILES
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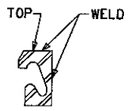
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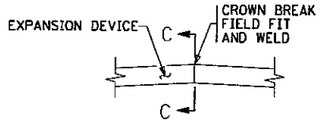
SECTION D



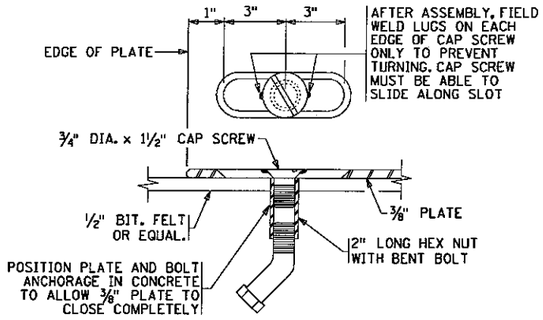
BENT STUD DETAIL



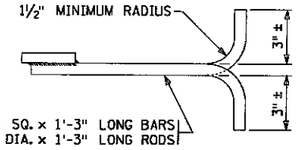
SECTION C



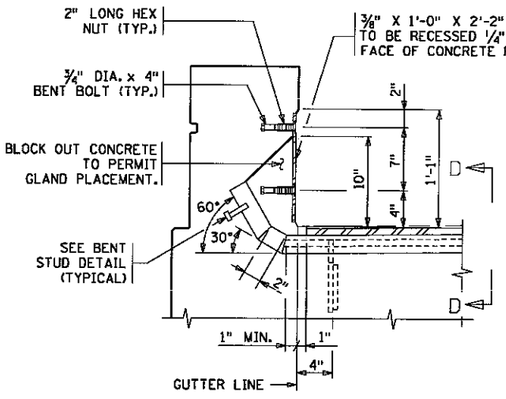
DETAIL "B"



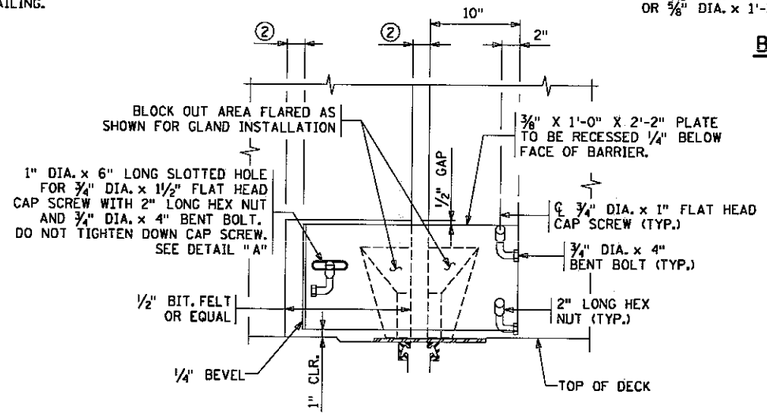
DETAIL "A"



BAR-ROD DETAIL



SECTION THRU CONCRETE PARAPET RAILING



INSIDE ELEVATION
(CONCRETE PARAPET RAILING)

NOTES:

GALVANIZE STRUCTURAL STEEL AFTER FABRICATION AS PER SPEC. 3394. GALVANIZE FASTENERS AS PER SPEC. 3392.

JOINTS IN EXTRUSION SHALL BE LOCATED AT BREAKS IN TRANSVERSE PROFILE AND AS OTHERWISE REQUIRED. JOINTS SHALL BE CLOSE FIT AND WELDED. REPAIR AFTER WELDING AS PER SPEC. 2471.3L.

STRUCTURAL STEEL SHALL COMPLY WITH SPEC. 3306 OR SPEC. 3309.

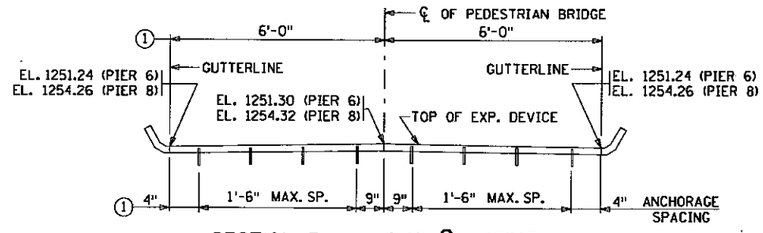
EXPANSION DEVICE SHALL BE STRAIGHTENED TO A TOLERANCE OF ⅛" IN 10 FEET.

CAP SCREWS SHALL BE COUNTERSUNK 1/16" BELOW TOP OF PLATE.

LENGTH OF PAYMENT FOR DEVICE IS FROM OUT TO OUT OF EXTRUSION ALONG CENTERLINE OF JOINT.

① DIMENSIONS ARE ALONG CENTERLINE OF JOINT.

② 2" AT 45°F; 2" AT 90°F



SECTION B - ALONG ℄ JOINT
(ELEVATIONS SHOWN ARE ½" BELOW TOP OF SLAB @ ℄ JT.)

AS-BUILT

MAR 1 4 2001

ENGINEERING

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David R. Dahlstaff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 19 98

S.A.P. NO. 55-622-34

TITLE: EXPANSION DEVICE, TYPE 2 AT PIERS 6 & 8

DES: CBM	DR: GLD	APPROVED: 5-7-98
CHK: PWD	CHK: CBM	

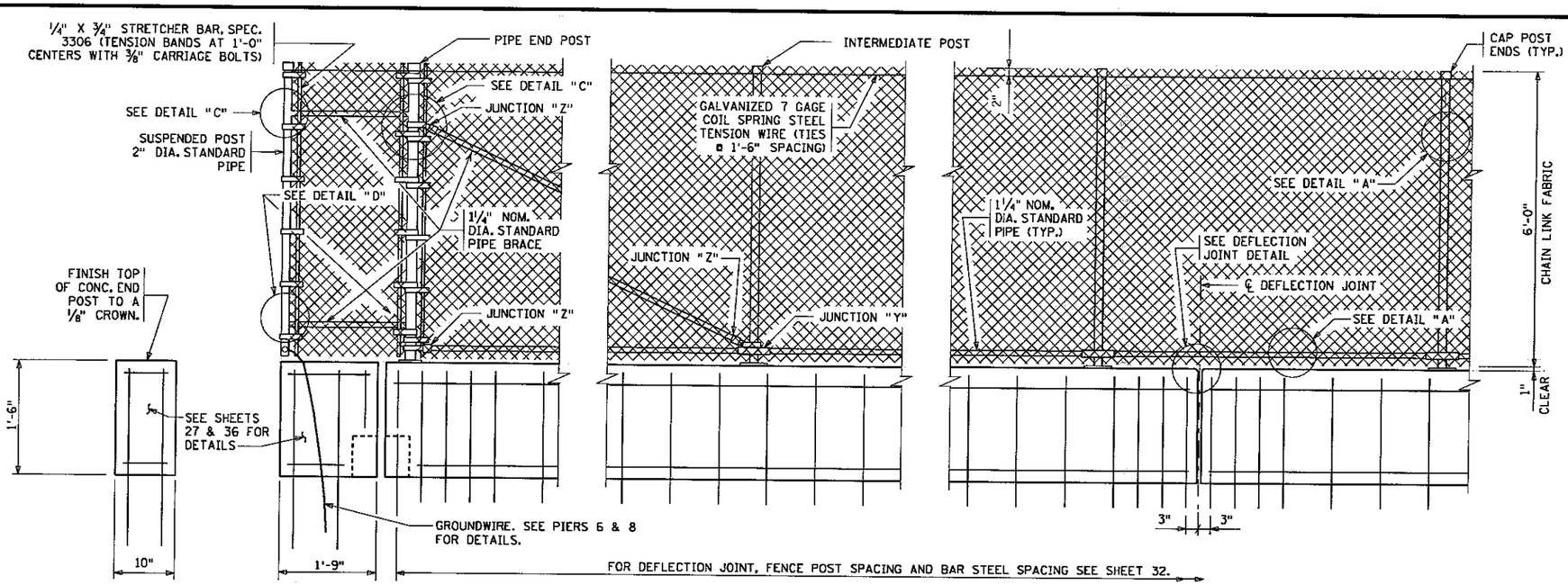
SHEET NO. 40 OF 66 SHEETS

BRIDGE NO. 55562

REFERENCE FILES

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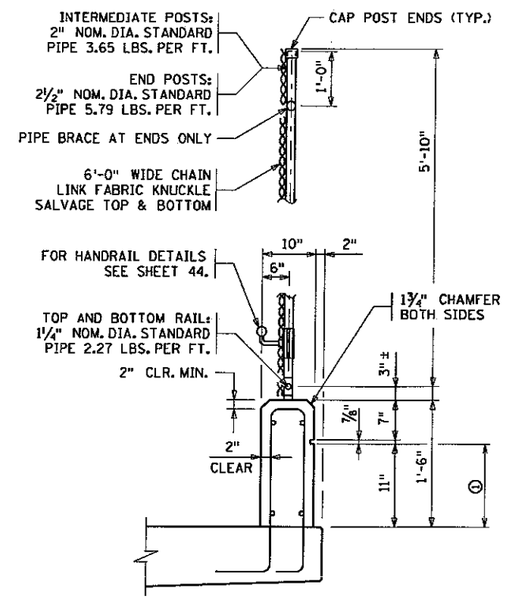


END VIEW
(FENCE NOT SHOWN)

EXPANSION JOINT
(EXPANSION DEVICE NOT SHOWN)

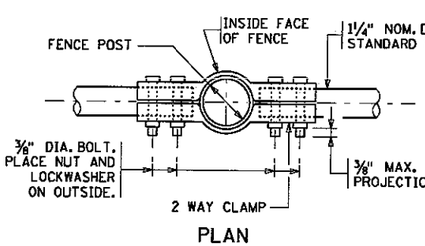
INSIDE ELEVATION OF RAILING

DEFLECTION JOINT

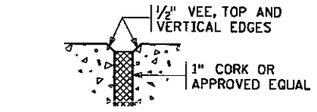


TYPICAL SECTION THRU FENCE
(INTERMEDIATE POST SHOWN)

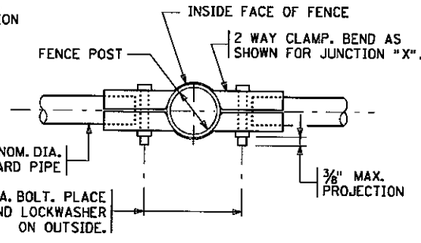
① CONCRETE IN THIS AREA TO BE COLORED DIFFERENTLY. SEE SPECIAL PROVISIONS.



PLAN
JUNCTION "X"

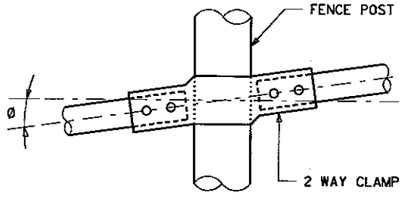


DEFLECTION JOINT DETAIL

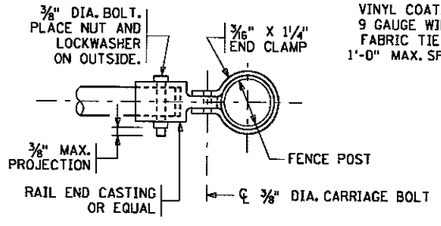


JUNCTION "Y"

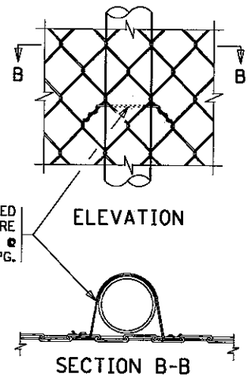
2 WAY CLAMP BENDING TABLE	
GRADE OF FENCE	ø
0° TO 2°	0°
2° TO 6°	4°
6° TO 10°	8°



ELEVATION
JUNCTION "X"



JUNCTION "Z"

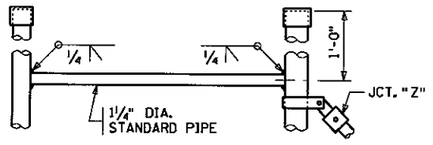


ELEVATION

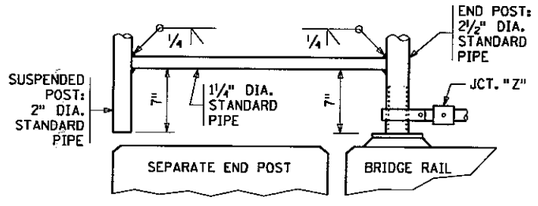
SECTION B-B

DETAIL "A"

FOR HANDRAIL DETAILS SEE SHEET 44.



DETAIL "C"



DETAIL "D"
SUSPENDED POST DETAILS

GENERAL NOTES:

ALL MATERIAL IN THE CONCRETE BASE AND END POSTS IS INCLUDED IN THE SUPERSTRUCTURE QUANTITIES.

THE LENGTH OF RAILING CONCRETE SHALL BE MEASURED FOR PAYMENT BETWEEN THE OUTSIDE FACES OF THE END POSTS.

MAXIMUM SPACING OF DEFLECTION JOINTS SHALL BE 20'-0".

CONCRETE IN THE RAIL BASE SHALL BE MIX NO. 3Y46.

FENCE POST ANCHORAGES SHALL BE TYPE A. SEE DETAIL B905 "FENCE POST ANCHORAGE".

FOR SPACING OF FENCE POST, JOINTS AND ELECTRICAL GROUNDS, SEE SUPERSTRUCTURE SHEETS.

FENCE POSTS AND FENCE POST ANCHORAGES SHALL BE SET VERTICAL, UNLESS OTHERWISE NOTED.

℄ OF FENCE POST ANCHORAGE SHALL BE A MINIMUM OF 6" FROM JOINTS.

END POSTS AND BRACING SHALL BE AT 500 FT. MAXIMUM INTERVALS.

ALL POSTS SHALL HAVE A MEANS TO SECURELY HOLD THE TOP TENSION WIRE IN POSITION AND ALLOW FOR THE REMOVAL AND REPLACEMENT OF A POST WITHOUT DAMAGING THE TOP WIRE.

WIRE TIES SHALL BE 9 GAGE GALVANIZED STEEL OR 0.179" MIN. ALUMINUM ALLOY CONFORMING TO A.S.T.M. B211, ALLOY 1100-H18. USE 12½ GAGE GALVANIZED HOG RINGS FOR TENSION WIRE TIES.

SEE SPECIAL PROVISIONS FOR REQUIREMENTS NOT INCLUDED ON THIS SHEET AND FOR BASIS OF PAYMENT.

AS-BUILT

MAR 14 2001

ENGINEERING

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY _____ PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: CONCRETE PARAPET & FENCE RAILING (WITH SEPARATE END POST)

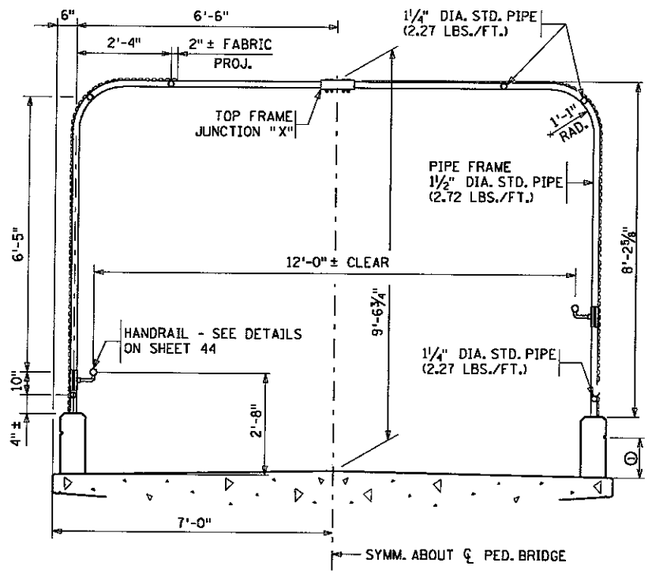
DES: CBM | DR: CLS | APPROVED: 5-7-98
CHK: PWD | CHK: CBM

SHEET NO. 41 OF 66 SHEETS

BRIDGE NO. 55562

REFERENCE FILES
dsbrenin\ngen.dgn DN = 1-63

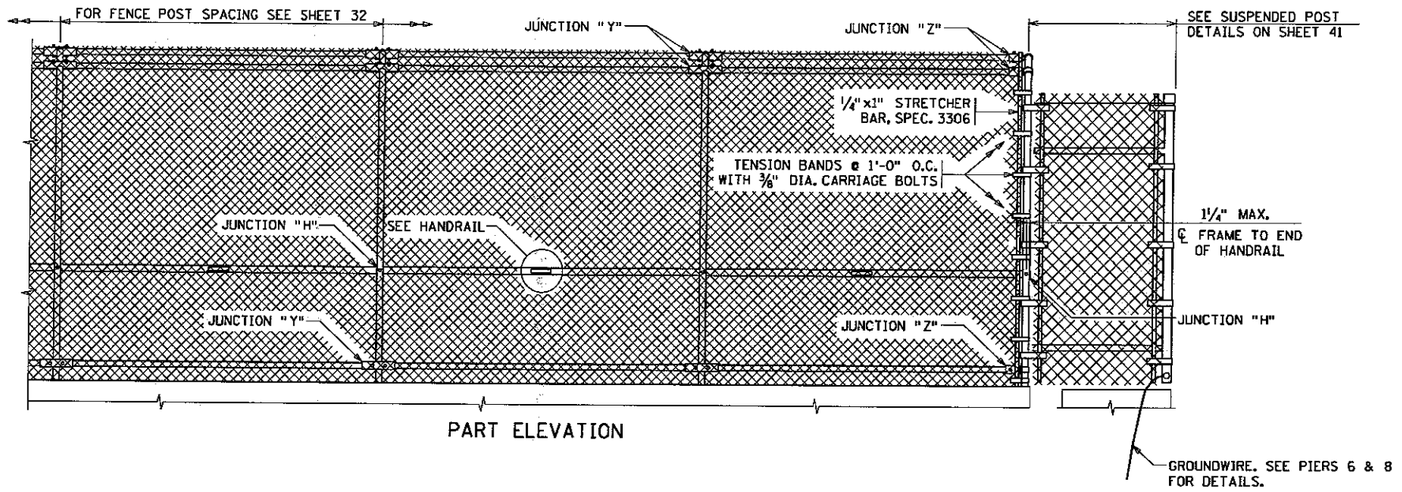
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PEN TABLE = ±PLOT72±LASER±smbr.tbl
DATE OF PLOT = 04/09/98
DESIGN FILE IS u:±trbridge±0260chlk.dgn
DGN LEVELS ON = 1-63



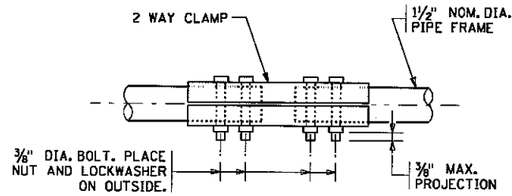
TYPICAL SECTION THROUGH WALKWAY

ⒾCONCRETE IN THIS AREA TO BE COLORED DIFFERENTLY. SEE SPECIAL PROVISIONS.

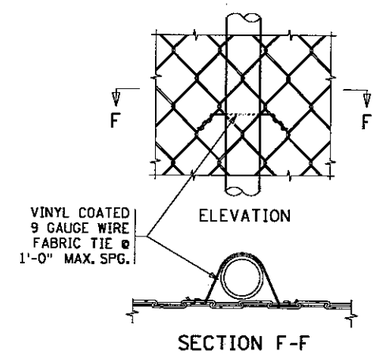
FOR HANDRAIL DETAILS SEE SHEET 44.



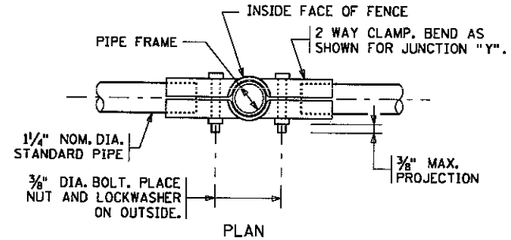
PART ELEVATION



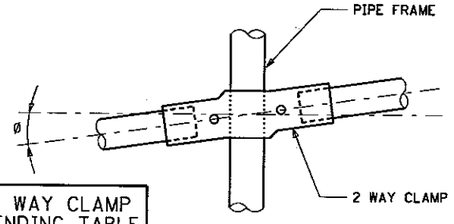
JUNCTION "X"



SECTION F-F
FABRIC TIE



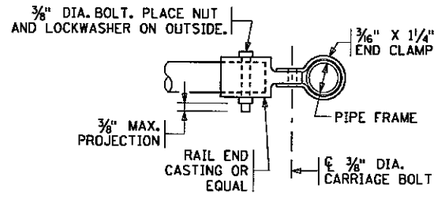
PLAN



ELEVATION (AT INTERMEDIATE FRAMES)

2 WAY CLAMP BENDING TABLE	
GRADE OF FENCE	Ø
0° TO 2°	0°
2° TO 6°	4°
6° TO 10°	8°

JUNCTION "Y"



JUNCTION "Z"

AS-BUILT

MAR 14 2001

ENGINEERING

NOTES:

FENCE POST ANCHORAGES SHALL BE TYPE A. SEE DETAIL B905 "FENCE POST ANCHORAGE".

SEE SPECIAL PROVISIONS FOR REQUIREMENTS NOT INCLUDED ON THIS SHEET AND FOR BASIS OF PAYMENT.

ALL PIPE DIAMETERS ARE NOMINAL.

PIPE FRAMES SHALL BE VERTICAL.

FOR SPACING OF PIPE FRAMES, LOCATION, TYPE OF ANCHORAGES AND OTHER DETAILS SEE SHEET NO. 32 & 41 .

SET ALL ANCHORAGES VERTICAL.

GALVANIZE BOLTS, NUTS, AND WASHERS PER SPEC 3392.

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY [signature] PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 19 98

S.A.P. NO. 55-622-34

TITLE: CHAIN LINK ENCLOSURE FOR PEDESTRIAN BRIDGES

DES: CBM	DR: CLS	APPROVED: 5-7-98
CHK: PWD	CHK: CBM	

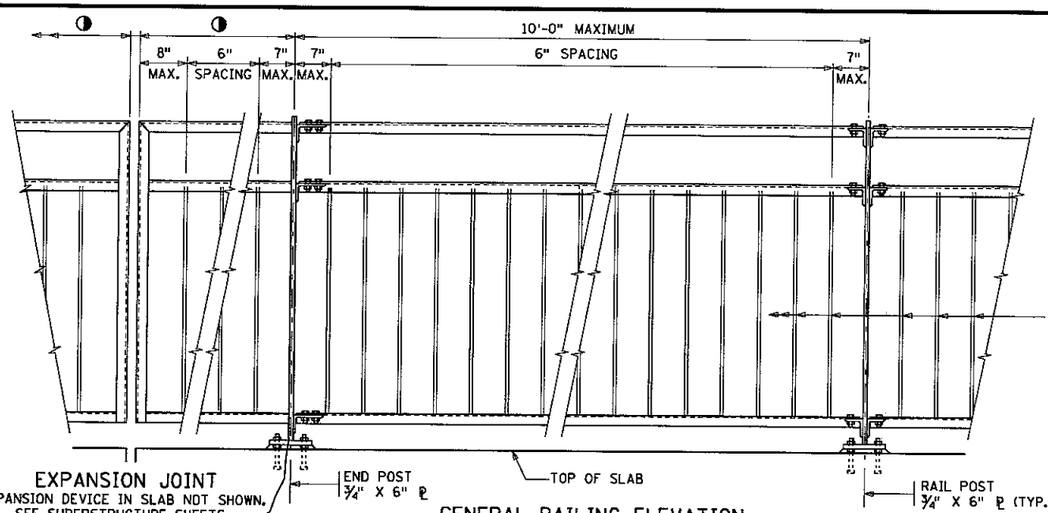
SHEET NO. 42 OF 66 SHEETS

BRIDGE NO. 55562

REFERENCE FILES

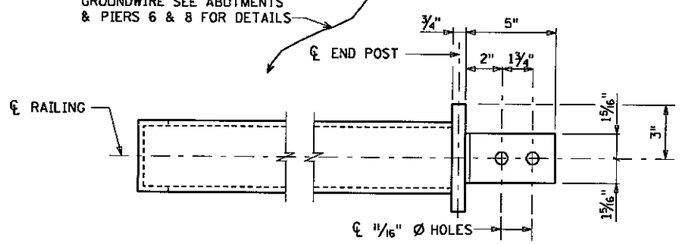
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DESIGN FILE IS u:±trbridge±0260rail.dgn
DGN LEVELS ON = 1-63

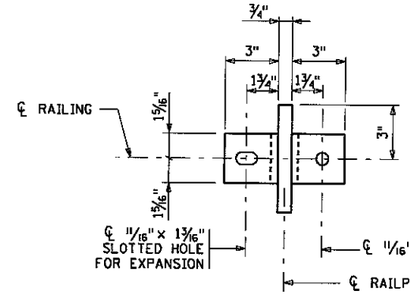


GENERAL RAILING ELEVATION

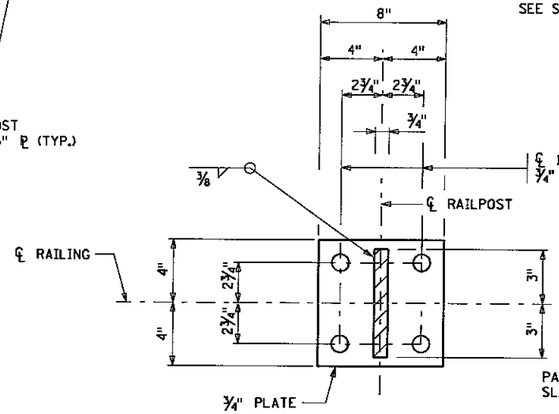
◑ 1'-11" AT PIER #3
3'-3" AT PIERS #6 & #8
2'-8" AT WEST AND EAST ABUTMENTS TO PAVING NOTCH
1'-11" AT ALL OTHER LANDINGS



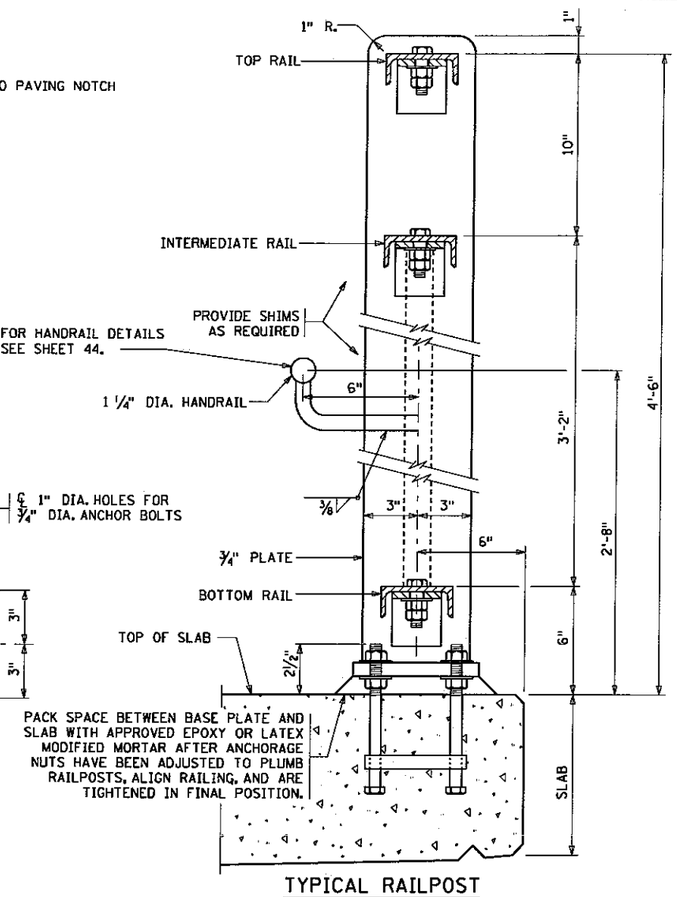
TOP VIEW
(RAILING NOT SHOWN)



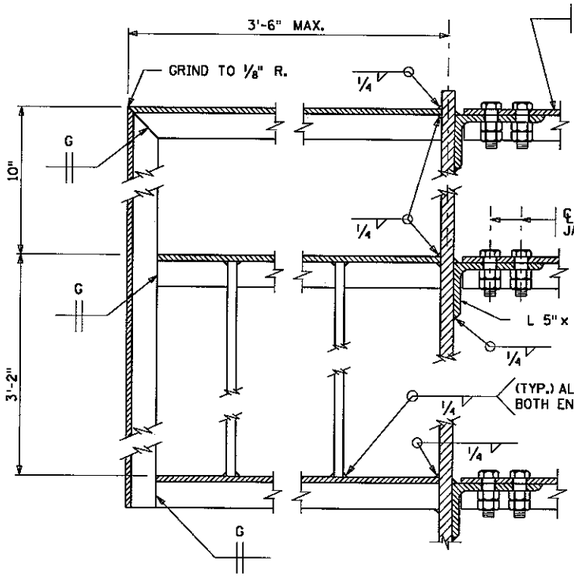
TOP VIEW
(RAILING NOT SHOWN)



RAILPOST BASE PLATE

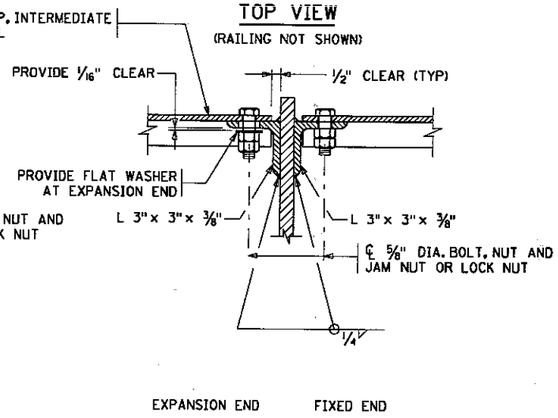


TYPICAL RAILPOST



PART ELEVATION

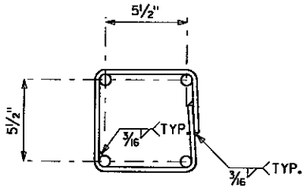
END POST DETAILS



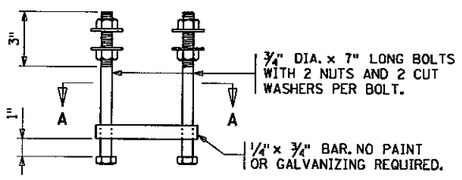
PART ELEVATION

TYPICAL INTERMEDIATE POST RAILING CONNECTIONS

NOTE:
TOP, INTERMEDIATE & BOTTOM RAIL CONNECTIONS SIMILAR.



SECTION A-A



ELEVATION

RAILPOST ANCHORAGE

CHEMICAL ANCHORS MAY BE USED INSTEAD OF CAST-IN-PLACE ANCHORAGE. REINFORCEMENT SHALL BE CAREFULLY PLACED TO AVOID DRILLING HOLES FOR ANCHORS. SEE SPECIAL PROVISIONS.

GENERAL NOTES:

ALL RAILPOSTS TO BE SET VERTICAL.

STANDARD STEEL SECTIONS MAY BE SUBSTITUTED WITH WELDED OR BENT PLATE SECTIONS THAT HAVE SIMILAR MATERIAL AND SECTION PROPERTIES AS NECESSARY TO ACCOMMODATE FABRICATION OF HORIZONTAL CURVE AND STAIR RAIL SECTIONS.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

ALL MATERIAL SHALL COMPLY WITH SPEC. 3306.

GALVANIZE BOLTS, NUTS, AND WASHERS PER SPEC. 3392.

GALVANIZE ALL OTHER STRUCTURAL STEEL PER SPEC. 3394 AFTER FABRICATION.

PRICE BID FOR ORNAMENTAL METAL RAILING INCLUDES ALL MATERIAL SHOWN ON THIS SHEET.

LENGTH OF "ORNAMENTAL METAL RAILING" FOR PAYMENT WILL BE MEASURED FROM END TO END OF CHANNEL WITH NO DEDUCTION FOR OPEN JOINT.

SEE SPECIAL PROVISIONS FOR ADDITIONAL PAINTING REQUIREMENTS AT AESTHETIC LOCATIONS.

ALL RAILING MEMBERS SHALL BE FLAT AFTER FABRICATION AND GALVANIZING TO WITHIN ⅛" IN 10 FT. BY MECHANICAL MEANS WITHOUT DAMAGE TO THE ZINC COATING.

AS-BUILT

MAR 14 2001

ENGINEERING

REFERENCE FILES

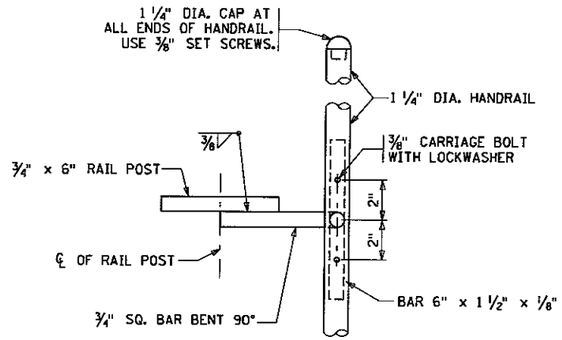
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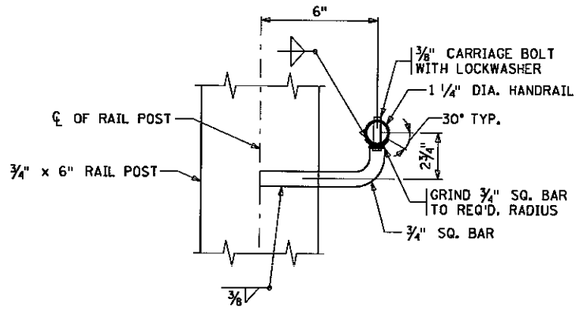
CERTIFIED BY David H Bartlaff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

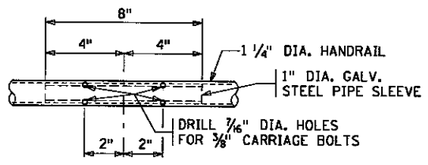
PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

S.A.P. NO.	TITLE:	DES: CBM	DR: CLS	APPROVED: 5-7-98	BRIDGE NO.
55-622-34	ORNAMENTAL METAL RAILING	CHK: PWD	CHK: CBM	SHEET NO. 43 OF 66 SHEETS	55562

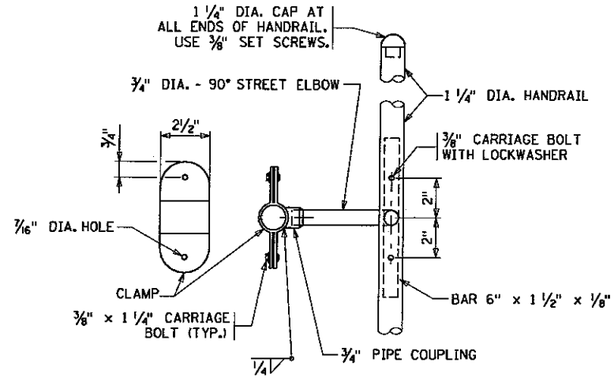
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DATE OF PLOT = 04/09/98
DESIGN FILE IS u:±trbridge±0260chlk.dgn
DGN LEVELS ON = 1-63

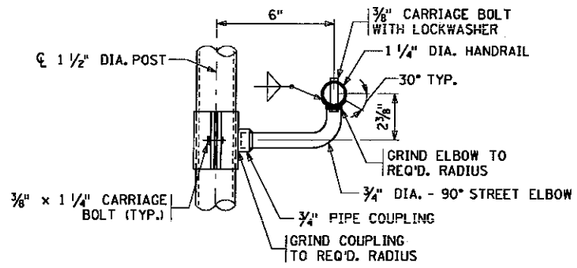


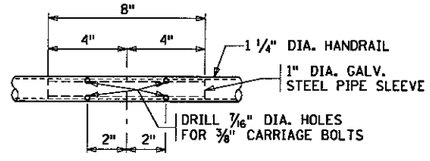




HANDRAIL DETAILS
FOR ORNAMENTAL METAL RAILING







HANDRAIL DETAILS
FOR CHAIN LINK FENCING

AS-BUILT

MAR 1 4 2001

ENGINEERING

REFERENCE FILES
dgn\trainmount.dgn DN = 1-63

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David H Ondyeff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 19 98

S.A.P. NO. 55-622-34

TITLE: HANDRAIL DETAILS

DES: CBM	DR: CLS	APPROVED: 5-7-98
CHK: PWD	CHK: CBM	

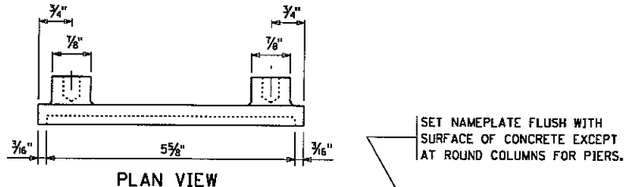
SHEET NO. 44 OF 66 SHEETS

BRIDGE NO. 55562

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DATE OF PLOT = 04/09/98
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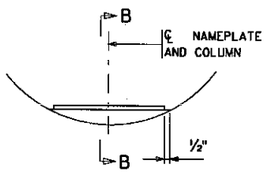
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THE DASHED NUMBERS SHOWN ABOVE ARE FOR ILLUSTRATION.
DATA TO BE SHOWN ON NAMEPLATE IS AS FOLLOWS:

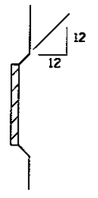
BRIDGE _____

YEAR _____



NAMEPLATE PLACEMENT

(ROUND CONCRETE PIER COLUMNS)



SECTION B-B



NUMBERS FOR NAMEPLATE

NOTES:

NO SHOP DRAWING REQUIRED.

MATERIAL SHALL COMPLY WITH SPEC. 3327.

LETTERS AND NUMBERS SHALL CONFORM TO THOSE SHOWN.

DRAFT ON LETTERS AND NUMBERS SHALL NOT BE MORE THAN 3" IN 12".

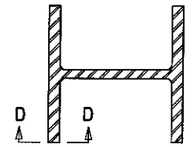
HORIZONTAL SPACING OF LETTERS AND NUMBERS SHALL PRODUCE A BALANCED LAYOUT IN PROPORTION TO SPACING SHOWN.

TOP SURFACE OF LETTERS, NUMBERS AND FRAMES SHALL BE BURNISHED.

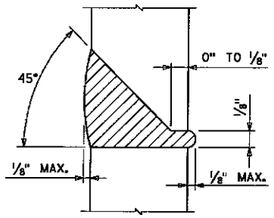
FURNISH 2 STEEL BOLTS ⅜" DIA. x 3" LONG WITH EACH PLATE.

ALL DIMENSIONS FOR ¾" HIGH LETTERS AND NUMBERS SHALL BE IN DIRECT PROPORTION TO THOSE SHOWN FOR THE 1" HIGH LETTERS AND NUMBERS.

APPROVED: JUNE 5, 1995 OFFICE of BRIDGES and STRUCTURES	STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION BRIDGE NAMEPLATE (FOR NEW BRIDGES)	REVISION	DETAIL NO. B101



SECTION AT JOINT



SECTION D-D

100% BUTT WELDED
PILE SPLICE

AS-BUILT

MAR 1 4 2001

ENGINEERING

NOTES:

A.W.S. TYPE E7016 OR E7018 (LOW-HYDROGEN) ELECTRODES SHALL BE USED FOR 100% BUTT WELDED SPLICES.

LOW-HYDROGEN ELECTRODES SHALL BE SUPPLIED IN HERMETICALLY (AIR-TIGHT) SEALED CONTAINERS.

LOW-HYDROGEN ELECTRODES SHALL BE STORED IN HOLDING OVENS AT A TEMPERATURE OF NOT LESS THAN 250°F.

LOW-HYDROGEN ELECTRODES SHALL BE PLACED IN A HOLDING OVEN FOR AT LEAST 8 HOURS IF THEY HAVE BEEN EXPOSED TO THE ATMOSPHERE FOR MORE THAN 2 HOURS.

ELECTRODES WHICH HAVE BECOME WET, SOILED OR DAMAGED SHALL NOT BE USED.

WELDING SHALL NOT BE DONE WHEN THE AMBIENT TEMPERATURE IS LOWER THAN 0°F. OR WHEN THE PILE IS WET OR EXPOSED TO FALLING RAIN OR SNOW. WHEN THE PILE METAL TEMPERATURE IS BELOW 32°F., THE PILE METAL IN THE AREA OF THE WELD SHALL BE HEATED TO A MINIMUM TEMPERATURE OF 70°F. AND MAINTAINED AT THIS TEMPERATURE DURING WELDING.

APPROVED: JUNE 5, 1995 OFFICE of BRIDGES and STRUCTURES	STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION PILE SPLICE (STEEL H BEARING PILES 10" TO 14")	REVISION	DETAIL NO. B202

CERTIFIED BY David D Bartlett
PROFESSIONAL ENGINEER
REG. NO. 15433 4/13 1998

S.A.P. NO. 55-622-34

TITLE: STANDARD STRUCTURE DETAILS

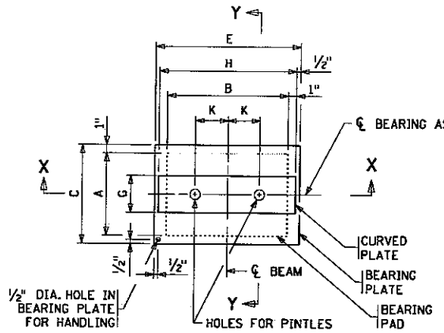
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CHK: PWD | CHK: CBM

SHEET NO. 45 OF 66 SHEETS

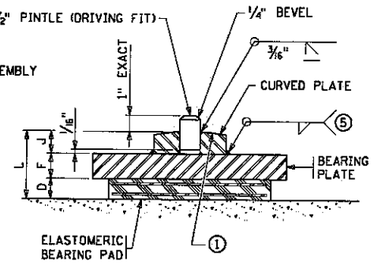
BRIDGE NO. 55562

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

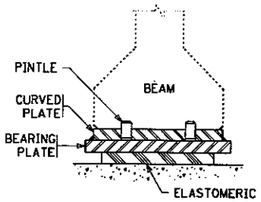
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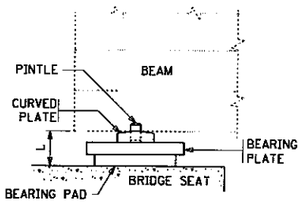
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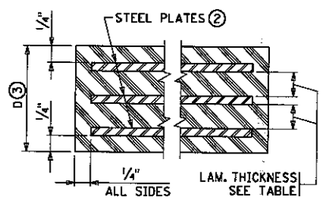
SECTION Y-Y
(ENLARGED BEARING ASSEMBLY)



SECTION X-X



END ELEVATION



SECTION THRU BEARING PAD

TABLE

ASSEMBLY TYPE	LOCATION	BEAM SIZE	BEARING PAD SIZE A	B	D	STEEL PLATES NO.	THICK.	LAMINATES NO.	THICK.	SHAPE FACTOR	BEARING PLATE SIZE C	E	F	CURVED PLATE SIZE G	H	J	PINTLE DIA.	PINTLE DISTANCE K ④	ASSY. HEIGHT L
1	PIER 6 & 8	40"	8"	20"	1.625"	3	0.125"	2	0.375"	7.6	10"	23"	1"	4.5"	22"	1.125"	1.5"	8"	3.75"

NOTES:

ELASTOMERIC MATERIALS & PAD CONSTRUCTION SHALL COMPLY WITH SPEC. 3741.

ALL STEEL PLATES SHALL COMPLY WITH SPEC. 3306

ALL PLATES SHALL BE FLAT AFTER FABRICATION AND GALVANIZING. WELDING DISTORTION OF BEARING PLATES SHALL BE STRAIGHTENED TO WITHIN 1/16" OF FLATNESS BY MECHANICAL MEANS WITHOUT DAMAGE TO THE ZINC COATING.

PINTLES SHALL COMPLY WITH SPEC. 3309.

GALVANIZE STRUCTURAL STEEL BEARING ASSEMBLY AFTER FABRICATION PER SPEC. 3394, EXCEPT AS NOTED.

PAYMENT FOR BEARING ASSEMBLY SHALL INCLUDE ALL MATERIAL ON THIS DETAIL.

① THE RADIUS OF THE CURVED PLATE SHALL BE 1'-4" MINIMUM AND 2'-0" MAXIMUM. FINISH TO 250 MICRO. THE FINISHED THICKNESS OF THE PLATE MAY BE 1/16" LESS THAN SHOWN.

② DO NOT GALVANIZE THESE PLATES.

③ THE TOTAL THICKNESS SHOWN INCLUDES THE STEEL PLATES.

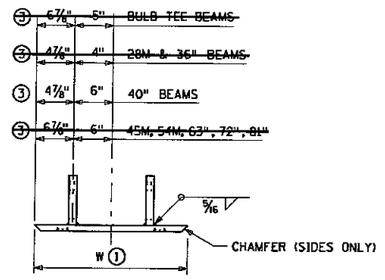
④ SEE DETAIL B303 FOR PINTLE DISTANCE K.

⑤ WELDING PER SPEC. 2471.

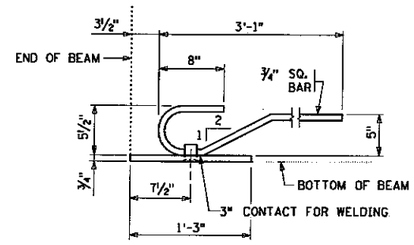
DESIGN DATA:

MAXIMUM HORIZONTAL LOAD IS TO KIPS FOR 1½" PINTLES.

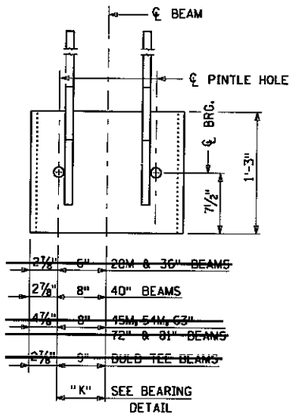
APPROVED: MAY 23, 1995	STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION	REVISION	DETAIL NO.
OFFICE of BRIDGES and STRUCTURES	CURVED PLATE BEARING ASSEMBLY (PRESTRESSED CONCRETE BEAMS) (EXPANSION)		B311



FRONT VIEW

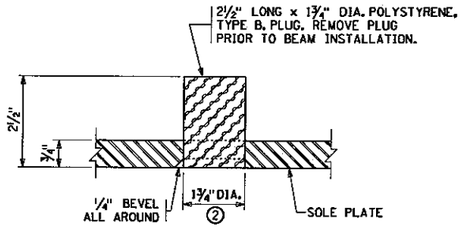


SIDE VIEW



TOP VIEW

BEAM SIZE	W VALUE
28M,36"	1'-5¾"
40"	1'-9¾"
45M,54M 63",72",81"	2'-1¾"
BULB TEES	1'-11¾"



PINTLE HOLE DETAIL

NOTES:

MATERIAL TO BE STRUCTURAL STEEL PER SPEC. 3306.

SOLE PLATE FOR BEARING ASSEMBLY TO BE HOT DIPPED GALVANIZED PER SPEC. 3394 AFTER FABRICATION.

PINTLE HOLES SHALL BE FREE OF ZINC BUILD UP FROM GALVANIZING.

PAYMENT FOR SOLE PLATES TO BE INCLUDED IN PRICE BID FOR PRESTRESSED CONCRETE BEAMS.

① DIMENSION "W" TO BE THE WIDTH AT THE BOTTOM FLANGE OF THE BEAM MINUS ¼".

② FOR 1½" DIA. PINTLES.

③ THESE DIMENSIONS MAY BE MODIFIED TO CLEAR PRESTRESSED STRANDS. HOWEVER, CHANGES MUST BE APPROVED BY THE ENGINEER.

AS-BUILT
MAR 14 2001
ENGINEERING

APPROVED: MAY 23, 1995	STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION	REVISION	DETAIL NO.
OFFICE of BRIDGES and STRUCTURES	SOLE PLATE (PRESTRESSED CONCRETE BEAMS) (FOR BEARINGS WITH PINTLES)		B303

REFERENCE FILES

dsbrsminordgn ON = 1-63

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David H. Dahlhoff
PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 19 98

S.A.P. NO. 55-622-34

TITLE: STANDARD STRUCTURE DETAILS

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CHK: PWD	CHK: CBM	

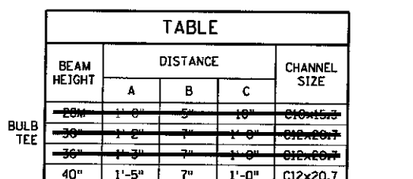
SHEET NO. 46 OF 66 SHEETS

BRIDGE NO. 55562

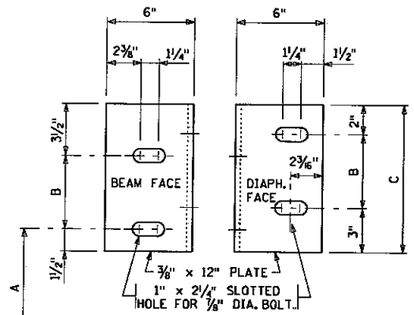
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DGN LEVELS ON = 1-63
REFERENCE FILES
d:\data\mn\dot\...dgn ON = 1-63

BEAM HEIGHT	DISTANCE A	DISTANCE B	DISTANCE C	CHANNEL SIZE
BULB TEE				
~~28M~~	~~1'-0"~~	~~5"~~	~~10"~~	~~C10x15.3~~
~~30"~~	~~1'-2"~~	~~7"~~	~~1'-0"~~	~~C12x20.7~~
~~36"~~	~~1'-3"~~	~~7"~~	~~1'-0"~~	~~C12x20.7~~
40"	1'-5"	7"	1'-0"	C12x20.7
~~45M~~	~~1'-3¾"~~	~~1'-1"~~	~~1'-6"~~	~~MC18x42.7~~

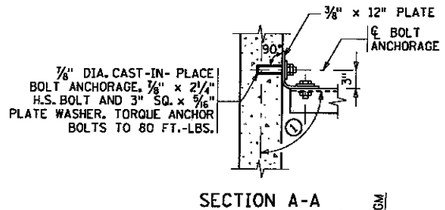
TABLE



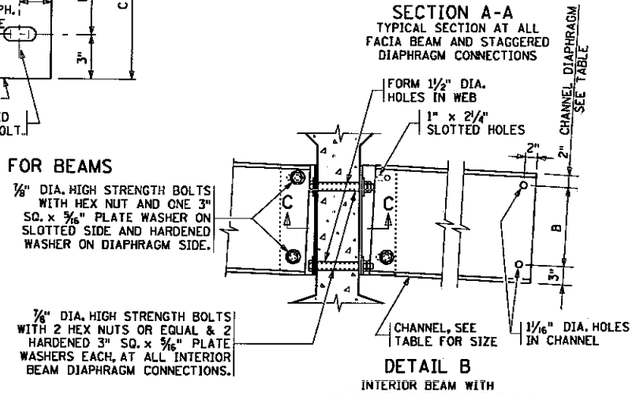
PART TRANSVERSE SECTION AT DIAPHRAGM



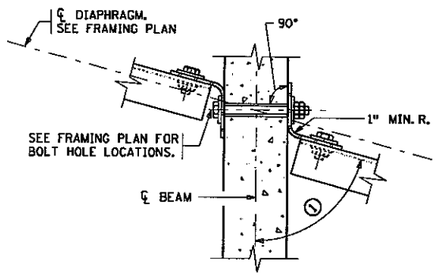
DIAPHRAGM CONNECTION FOR BEAMS



SECTION A-A
TYPICAL SECTION AT ALL FACIA BEAM AND STAGGERED DIAPHRAGM CONNECTIONS



DETAIL B
INTERIOR BEAM WITH CONTINUOUS LINE OF DIAPHRAGMS



SECTION C-C
TYPICAL SECTION AT CONTINUOUS INTERIOR DIAPHRAGMS

NOTES:

SEE SPEC. 2405.3M FOR INSTALLATION

THE LEG OF THE 12" PLATE SHALL BE SHOP BENT TO CONFORM TO THE DIAPHRAGM. A ⅜" x 6" x 6" ANGLE MAY BE USED FOR DIAPHRAGMS PERPENDICULAR TO BEAMS.

FOR BOLT LENGTHS GREATER THAN 8½", USE HIGH STRENGTH BOLTS PER SPEC. SAE GRADE 5 OR BETTER.

ALL STRUCTURAL STEEL SHOWN ON THIS DETAIL, INCLUDING BOLTS AND WASHERS, SHALL BE INCLUDED IN THE PAYMENT FOR DIAPHRAGMS FOR PRESTRESSED BEAMS.

DIAPHRAGMS OVER THE PIERS ARE CONSIDERED TO BE INTERMEDIATE IF THE SLAB IS CONTINUOUS.

① FOR SKEW ANGLES UNDER 20°, USE 90° LESS THE SKEW ANGLE. FOR SKEW ANGLES OVER 20°, USE 90°.

AS-BUILT
MAR 14 2001
ENGINEERING

APPROVED: MAY 23, 1995
OFFICE of BRIDGES and STRUCTURES

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION

STEEL INTERMEDIATE DIAPHRAGM

(FOR 28M - 45M PRESTRESSED CONCRETE BEAMS AND 30" BULB TEE BEAMS)

REVISION

DETAIL NO. B403

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David H Christoffy
PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 19 98

S.A.P. NO. 55-622-34

TITLE: STANDARD STRUCTURE DETAILS

DES: CBM | DR: GLD | APPROVED: 5-7-98
CHK: PWD | CHK: CBM

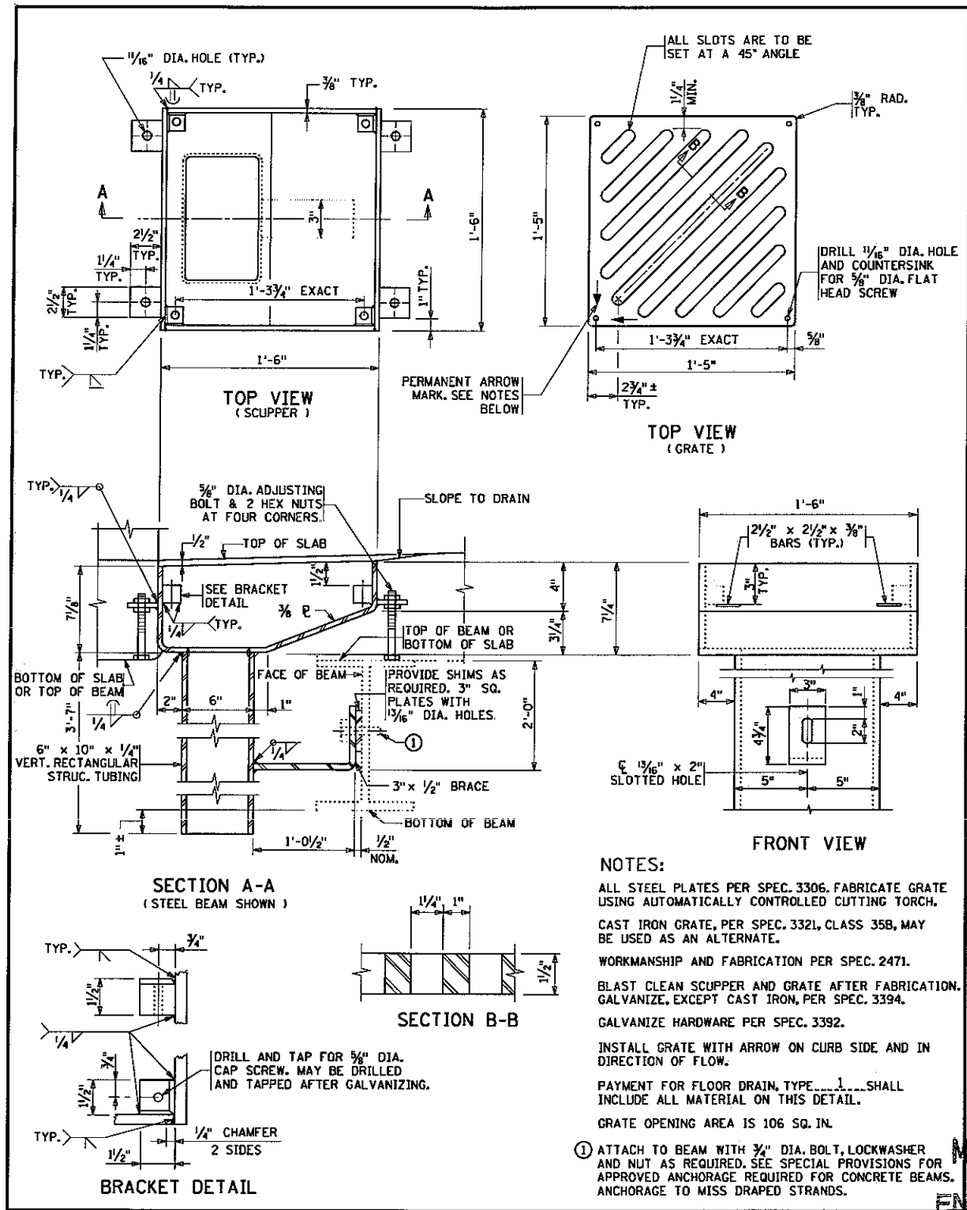
SHEET NO. 47 OF 66 SHEETS

BRIDGE NO. 55562

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DGN LEVELS ON = 1-63

REFERENCE FILES

dsbramlnight.dgn ON = 1-63



NOTES:

ALL STEEL PLATES PER SPEC. 3306. FABRICATE GRATE USING AUTOMATICALLY CONTROLLED CUTTING TORCH.

CAST IRON GRATE, PER SPEC. 3321, CLASS 35B, MAY BE USED AS AN ALTERNATE.

WORKMANSHIP AND FABRICATION PER SPEC. 2471.

BLAST CLEAN SCUPPER AND GRATE AFTER FABRICATION. GALVANIZE, EXCEPT CAST IRON, PER SPEC. 3394.

GALVANIZE HARDWARE PER SPEC. 3392.

INSTALL GRATE WITH ARROW ON CURB SIDE AND IN DIRECTION OF FLOW.

PAYMENT FOR FLOOR DRAIN, TYPE 1 SHALL INCLUDE ALL MATERIAL ON THIS DETAIL.

GRATE OPENING AREA IS 106 SQ. IN.

① ATTACH TO BEAM WITH ¾" DIA. BOLT, LOCKWASHER AND NUT AS REQUIRED. SEE SPECIAL PROVISIONS FOR APPROVED ANCHORAGE REQUIRED FOR CONCRETE BEAMS. ANCHORAGE TO MISS DRAPED STRANDS.

AS-BUILT
MAR 14 2001
ENGINEERING

APPROVED: MAY 23, 1995 OFFICE of BRIDGES and STRUCTURES	STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION BRIDGE FLOOR DRAIN (WELDED BOX)	REVISION	DETAIL NO. B701

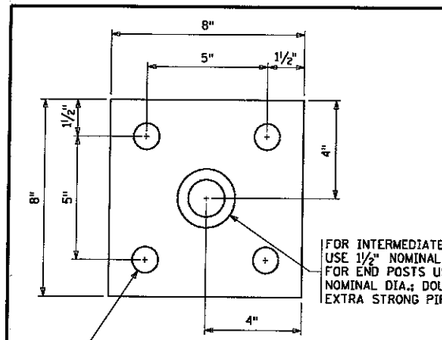
PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David H. Bartholomew PROFESSIONAL ENGINEER REG. NO. 15438 4/13 1998	S.A.P. NO. 55-622-34	TITLE: STANDARD STRUCTURE DETAILS	DES: CBM / DR: GLD / APPROVED: 5-7-98 CHK: PWD / CHK: CBM SHEET NO. 48 OF 66 SHEETS	BRIDGE NO. 55562

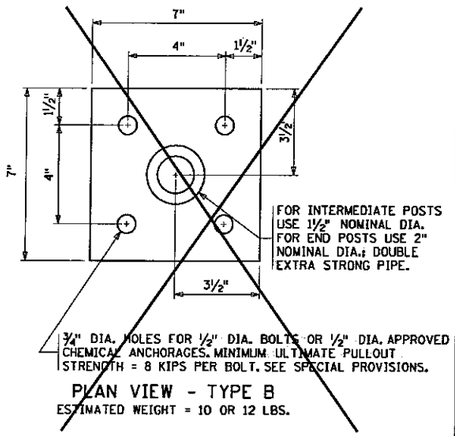
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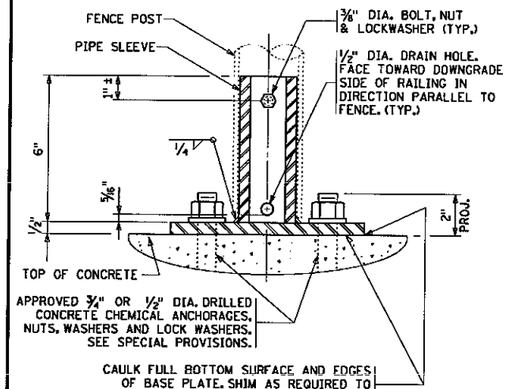
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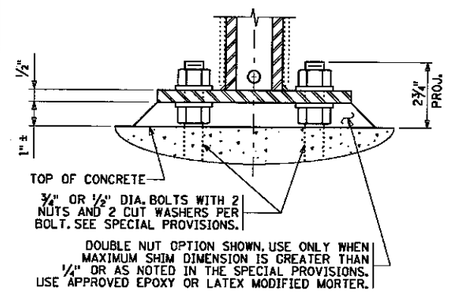
PLAN VIEW - TYPE A
ESTIMATED WEIGHT = 12 OR 14 LBS.



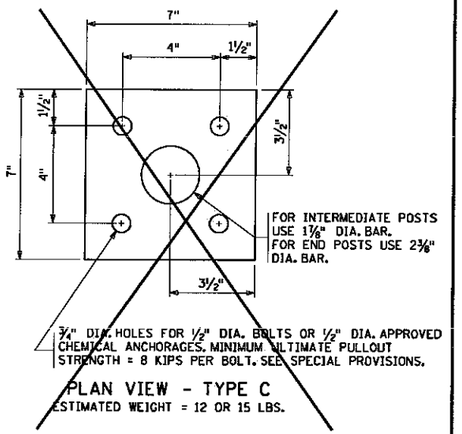
PLAN VIEW - TYPE B
ESTIMATED WEIGHT = 10 OR 12 LBS.



TYPICAL SECTION



GROUT ALTERNATE



PLAN VIEW - TYPE C
ESTIMATED WEIGHT = 12 OR 15 LBS.

NOTES:

STRUCTURAL STEEL PER SPEC. 3306

STRUCTURAL PIPE PER SPEC. 3362

GALVANIZE THE FENCE POST ANCHORAGE AFTER FABRICATION PER SPEC. 3394. GALVANIZE THE FASTENERS PER SPEC. 3392.

DOUBLE EXTRA STRONG PIPE WEIGHTS:
1½" NOMINAL DIA. = 6.41 LBS./FT.
2" NOMINAL DIA. = 9.03 LBS./FT.

APPROVED: JUNE 5, 1995 OFFICE of BRIDGES and STRUCTURES	STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION FENCE POST ANCHORAGE	REVISION	DETAIL NO. B905

AS-BUILT
MAR 14 2001
ENGINEERING

CERTIFIED BY David H. Christopherson
PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: STANDARD STRUCTURE DETAILS

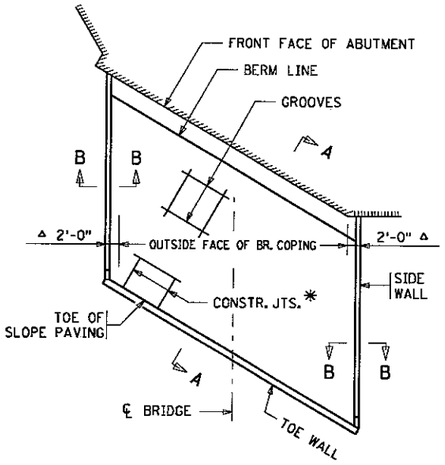
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SHEET NO. 49 OF 66 SHEETS

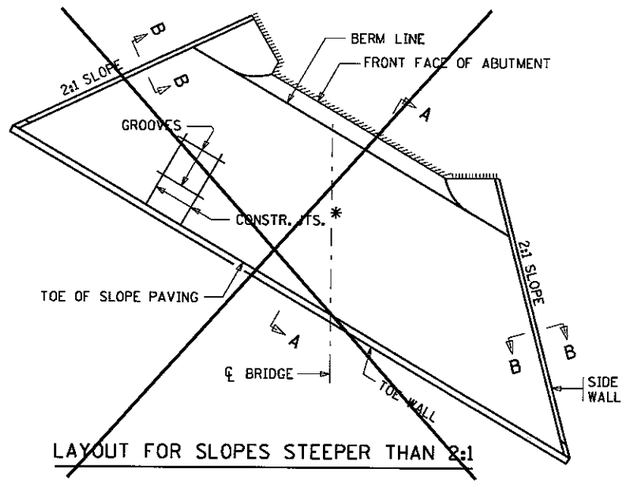
BRIDGE NO. 55562

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

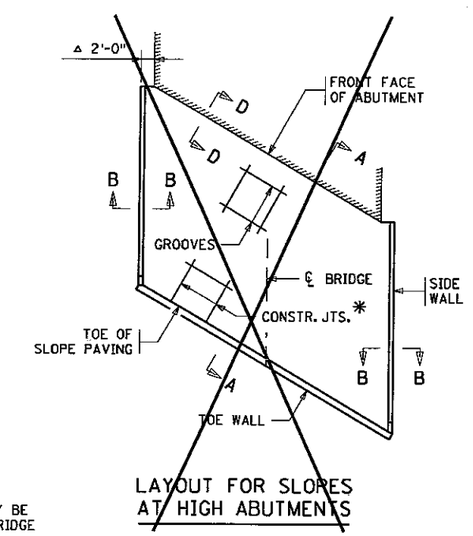
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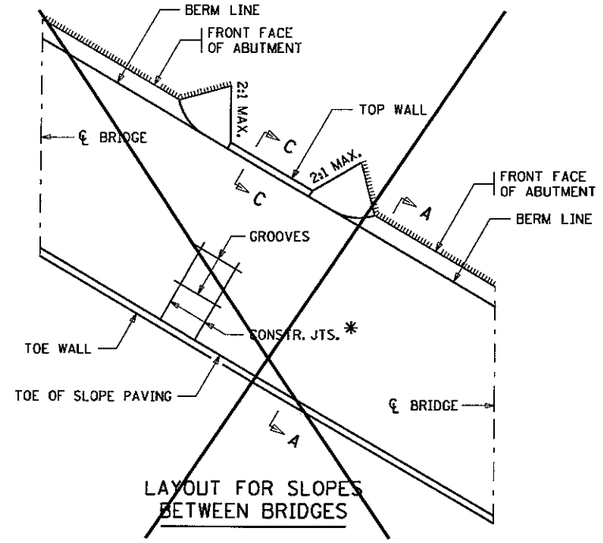
LAYOUT FOR SLOPES 2:1 OR FLATTER



LAYOUT FOR SLOPES STEEPER THAN 2:1



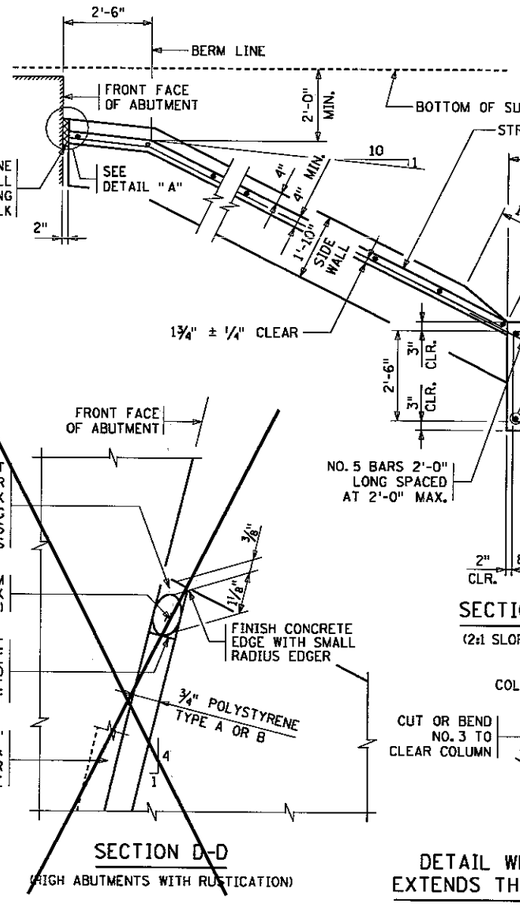
LAYOUT FOR SLOPES AT HIGH ABUTMENTS



LAYOUT FOR SLOPES BETWEEN BRIDGES

△ 2'-0" FOR TANGENT BRIDGE SUPERSTRUCTURES. VARIES 2'-0" MINIMUM FOR CURVED BRIDGE SUPERSTRUCTURE.

✱ VERTICAL CONSTRUCTION JOINTS MAY BE CONSTRUCTED PARALLEL TO ℄ OF BRIDGE FOR SKEWS TO 10° ONLY.

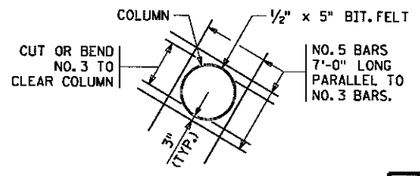


SECTION D-D

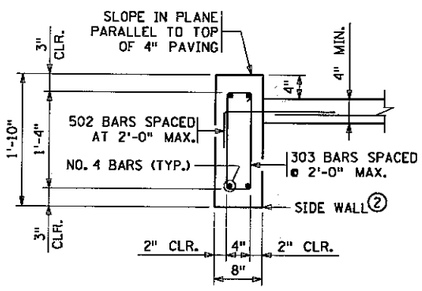
(HIGH ABUTMENTS WITH RUSTICATION)

SECTION A-A

(2:1 SLOPE SHOWN)

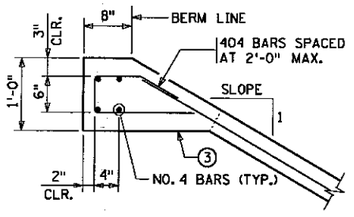


DETAIL WHERE PIER COLUMN EXTENDS THROUGH SLOPE PAVING

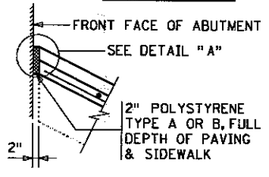


SECTION B-B

NORMAL TO SLOPE

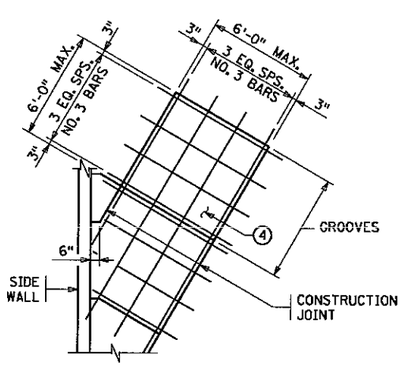


SECTION C-C

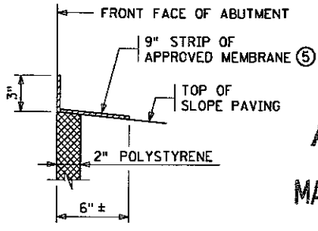


SECTION D-D

(HIGH ABUTMENTS WITHOUT RUSTICATION)



PAVING DETAIL



DETAIL "A"

SLOPE PAVING AS PER SPEC. 2514.

⑤ MEMBRANE SHALL BE RUBBERIZED ASPHALT INTEGRALLY BONDED TO POLYETHYLENE SHEETING OR APPROVED EQUAL. MATERIAL SHALL BE PLACED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

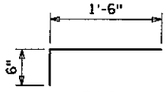
CONCRETE & REINFORCEMENT UNIT QUANTITIES

① 0.111 CU. YD. OF CONCRETE/LIN. FT.
8.37 LBS. OF REINFORCEMENT/LIN FT.

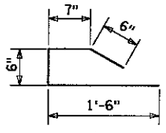
② 0.046 CU. YD. OF CONCRETE/LIN. FT.
4.46 LBS. OF REINFORCEMENT/LIN FT.

③ 0.058 CU. YD. OF CONCRETE/LIN. FT.
3.70 LBS. OF REINFORCEMENT/LIN FT.
BASED ON A SLOPE OF 2:1.

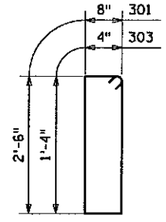
④ 0.111 CU. YD. OF CONCRETE/SQ. YD.
4.50 LBS. OF REINFORCEMENT/SQ. YD.



502



404



301 & 303

AS-BUILT

MAR 14 2001

ENGINEERING

REFERENCE FILES
FASTDLGN ON = 1-63
dsbcaminvert.dgn ON = 1-63

CERTIFIED BY David A. Gartzke PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 19 98

S.A.P. NO. 55-622-34

TITLE: CONCRETE SLOPE PAVING UNDER BRIDGES

DES: CBM DR: CLS APPROVED: 5-7-98
CHK: PWD CHK: CBM

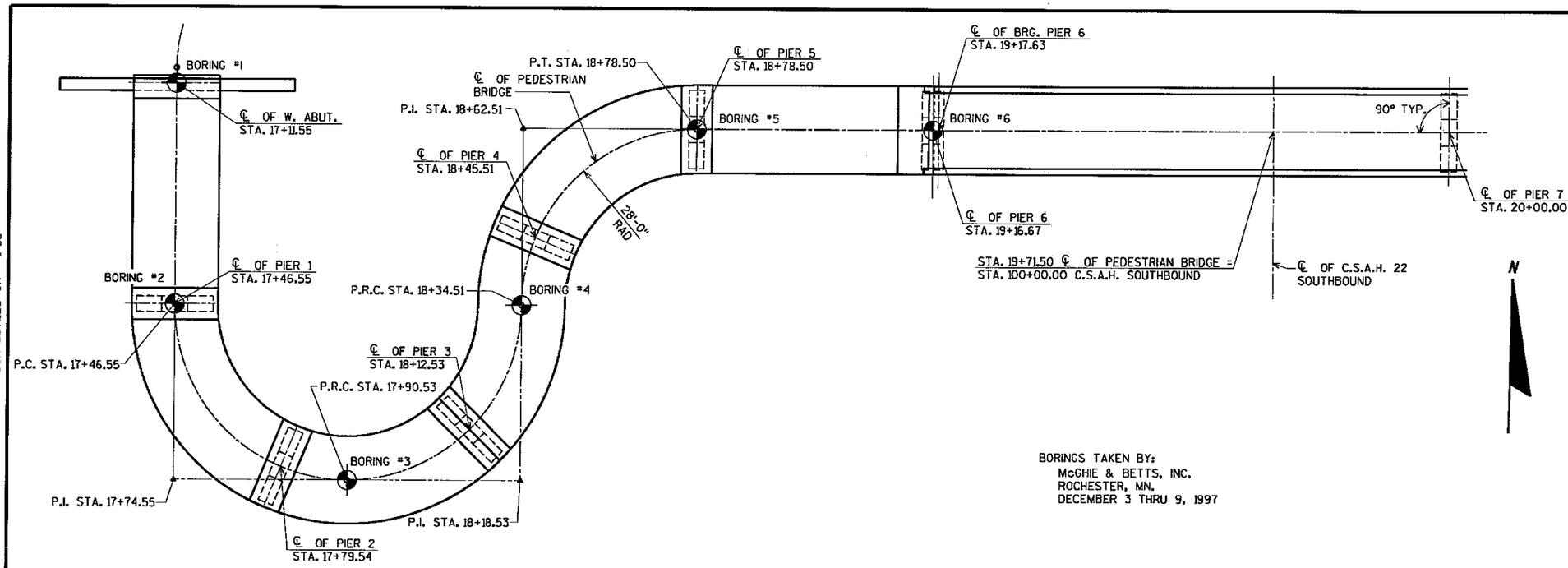
SHEET NO. 50 OF 66 SHEETS

BRIDGE NO. 55562

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

PLOT NAME = P:±2LASI7±0260SLW.PRF
PEN TABLE = ±PLOT72±LASER±smbr.tbl
DATE OF PLOT = 04/09/98
DESIGN FILE IS U:±trbridge±0260sl.dgn
DGN LEVELS ON = 1-63

REFERENCE FILES



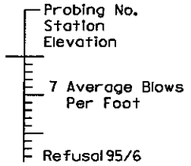
BORINGS TAKEN BY:
McGHIE & BETTS, INC.
ROCHESTER, MN.
DECEMBER 3 THRU 9, 1997

ABBREVIATIONS
F ---- Fine M ---- Medium C ---- Coarse
Ws ---- Weathered So ---- Sound

MATERIAL SYMBOLS

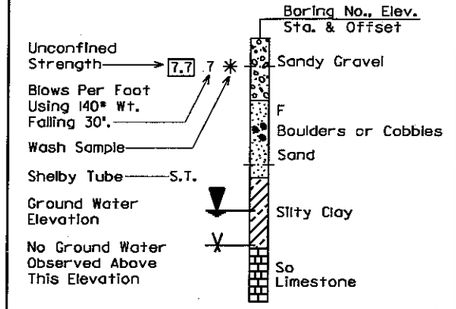
Topsoil	Silt	Sandstone
Sand	Peat	Limestone
Gravel	Clay	Igneous Rock

LEGEND OF PROBING



95/6 = 95 Blows for 6" Penetration
Probing taken with a 350# wt.
Falling 18" on a 2" O.D. Point.

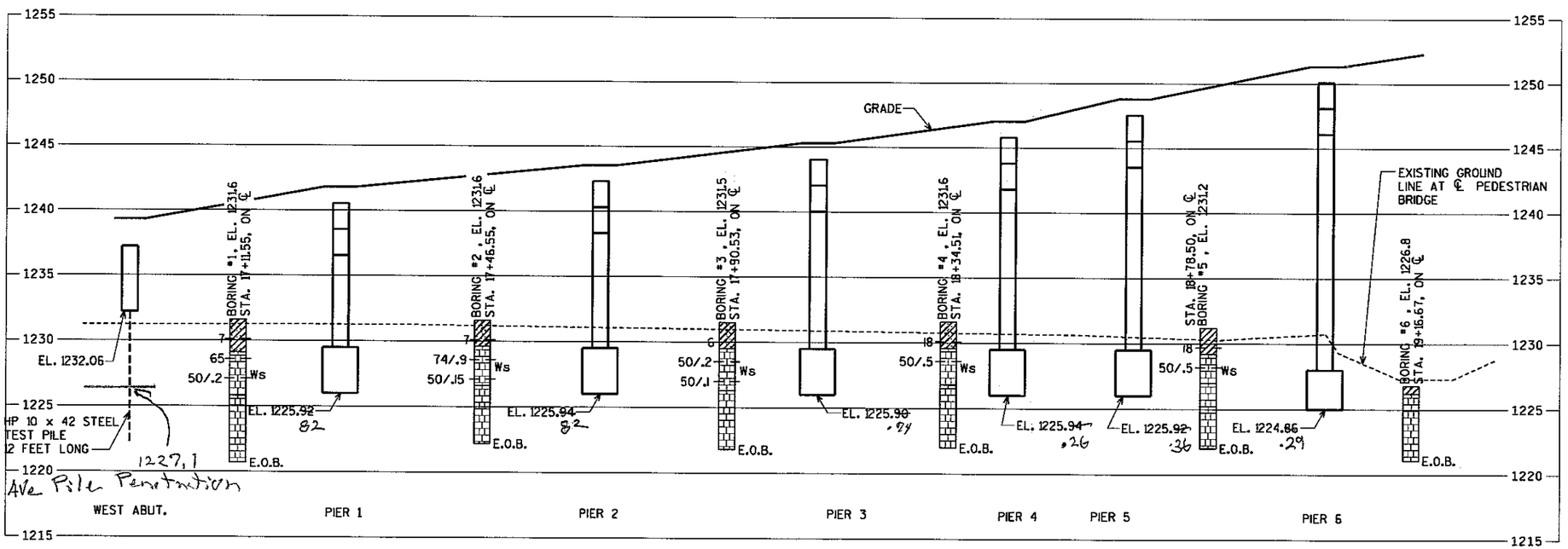
LEGEND OF BORING



Unless otherwise specified, the blows per foot at the locations indicated are based on driving a 2" O.D. x 1.4" I.D. split spoon sampler with a 140# hammer having a free fall of 30". The blow count is taken in undisturbed soil immediately below a cased or open hole eliminating side friction on the drive pipe.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

To obtain relative data concerning the character of material in and upon which the foundation might be built, borings and/or soundings were made at points approximately as indicated on this drawing. The data presented herein represents the findings of the subsurface explorations made. However, because the depths investigated are limited and the area of the borings and/or soundings is very small in relation to the entire area, the ENGINEER does not warrant conditions below the depths investigated or that the classification of material encountered in these investigations is necessarily typical of the entire site.



AS-BUILT

MAR 14 2001

ENGINEERING

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David H. Hentzoff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: SUBSURFACE EXPLORATION WEST

DES: CBM DR: GLD APPROVED: 5-7-98
CHK: CBM CHK: CBM

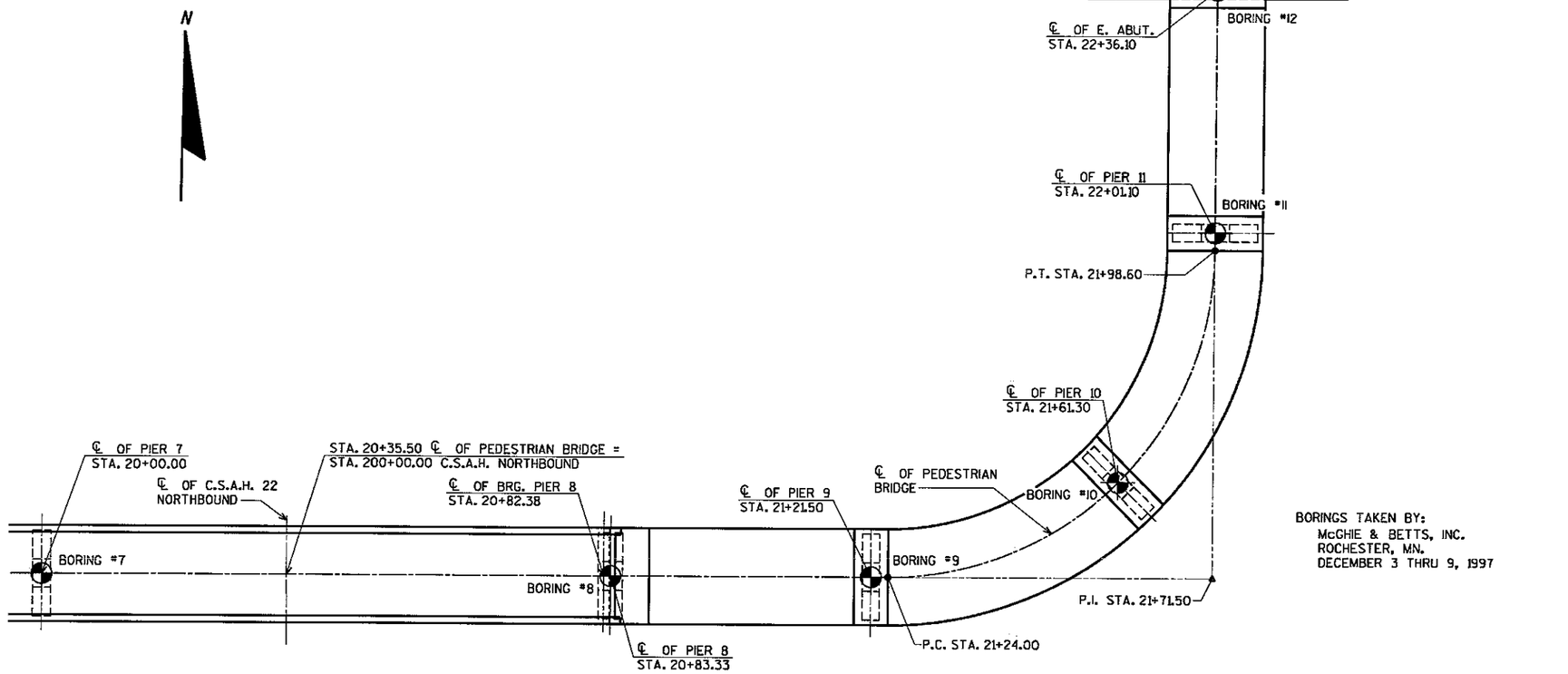
SHEET NO. 51 OF 66 SHEETS

BRIDGE NO. 55562

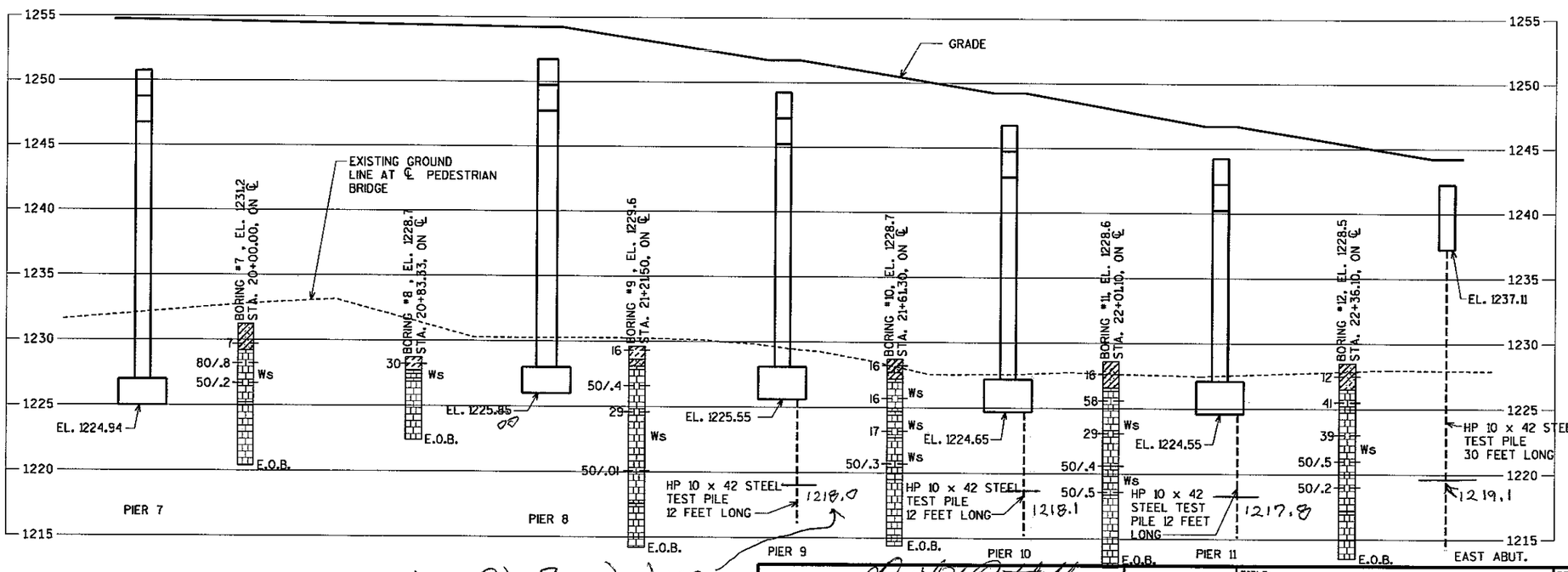
PLOT NAME = P:±2LAST7±0260SLE.PRF
PEN TABLE = ±PLOT72±LASER±smbr.tbl
DATE OF PLOT = 04/09/98
DESIGN FILE IS U:±trbridge±0260sl.dgn
DGN LEVELS ON = 1-63

REFERENCE FILES

DN = 1-63
minnsht.dgn



BORINGS TAKEN BY:
McGHIE & BETTS, INC.
ROCHESTER, MN.
DECEMBER 3 THRU 9, 1997



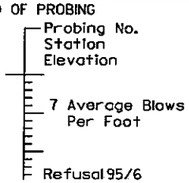
Ave Pile Penetration Elevation

ABBREVIATIONS
F ---- Fine M ---- Medium C ---- Coarse
Ws ---- Weathered So ---- Sound

MATERIAL SYMBOLS

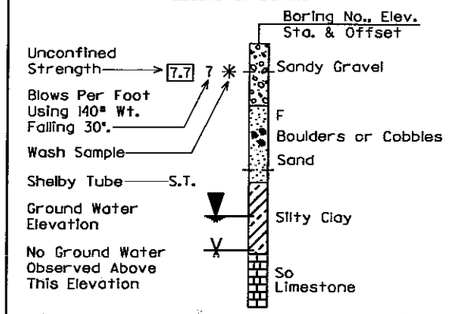
Topsoil	Silt	Sandstone
Sand	Peat	Limestone
Gravel	Clay	Igneous Rock

LEGEND OF PROBING



95/6 = 95 Blows for 6" Penetration
Probing taken with a 350# wt. Falling 18" on a 2" O.D. Point.

LEGEND OF BORING



Unless otherwise specified, the blows per foot at the locations indicated are based on driving a 2" O.D. x 1.4" I.D. split spoon sampler with a 140# hammer having a free fall of 30". The blow count is taken in undisturbed soil immediately below a cased or open hole eliminating side friction on the drive pipe.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

To obtain relative data concerning the character of material in and upon which the foundation might be built, borings and/or soundings were made at points approximately as indicated on this drawing. The data presented herein represents the findings of the subsurface explorations made. However, because the depths investigated are limited and the area of the borings and/or soundings is very small in relation to the entire area, the ENGINEER does not warrant conditions below the depths investigated or that the classification of material encountered in these investigations is necessarily typical of the entire site.

AS-BUILT

MAR 1 4 2001

ENGINEERING

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David A. Bartzloff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 19 98

S.A.P. NO. 55-622-34

TITLE: SUBSURFACE EXPLORATION EAST

DES: CBM	DR: GLD	APPROVED: 5-7-98
CHK: CBM	CHK: CBM	

SHEET NO. 52 OF 66 SHEETS

BRIDGE NO. 55562

PLOT NAME = P:\2LAS\T1\0260PP1.PRF
PEN TABLE = #PLOTTER4.TBL
DATE OF PLOT = 04/10/98
DESIGN FILE IS Lwaccon\dgn\0260pp1.dgn
DGN LEVELS ON = 1-10,42-63

REFERENCE FILES

N

EXISTING R/W
66'-0"
℄ OF 26th STREET
MH
33'-0"
FUTURE 12'-0" SIDEWALK
EXISTING R/W
15'-0" PERMANENT UTILITY EASEMENT
SLOPE INTERCEPT
150'-0
NEW R/W
150'-0
OVERHEAD ELECTRIC
OHE
101
201
EX 12" W
35'-0
TEMP. "CONCRETE MEDIAN BARRIER DESIGN 8323" LIMITS
30'-0
20+00
100+00
200+00
30'-0
14'-0
21'-0
35'-0
35'-0
FUTURE 12'-0" SIDEWALK
OHE
99
CONCRETE SURFACE
199
CONCRETE SURFACE
EDGE OF BITUMINOUS
EXISTING R/W
200'-0"
68'-0"
EXISTING R/W
C.S.A.H. 22 SB
C.S.A.H. 22 NB
1230
NEW R/W
TEMPORARY EASEMENT
40'-0
24
25
NEW R/W
EX 12" W
23
35'-0
℄ OF PEDESTRIAN BRIDGE
SLOPE INTERCEPT
End RipRap
ES*2
INV=1221.00
EX CB*20
TOP=1231.90
INV(S)=1225.16
INV(E)=1225.16
INV(NE)=1223.56
INV(SW)=1223.46
TEMPORARY EASEMENT
NEW R/W
INV(E)=1225.66
INV(S)=1225.16
EX 6' SUBDRAIN
EX 30" STM
FACE OF EXISTING CURB
EX 12" W
20'-0
EX 12" STM
1236
EX 30" STM
EX 6" SUBDRAIN
EX 12" W
EX 12" STM
EX CB*34
TOP=1232.65
INV=1228.40
(SUBDRAIN)

AS-BUILT

MAR 14 2001

ENGINEERING

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David A. Dantzloff
PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: GENERAL LAYOUT

DES: CBM	DR: GLD	APPROVED: 5-7-98
CHK: CBM	CHK: CBM	

SHEET NO. 53 OF 66 SHEETS

BRIDGE NO. 55562

PLOT NAME = P:±2LASI7±0260APQN.PRF
PEN TABLE = ±PLOT72±LASER±smbr.tbl
DATE OF PLOT = 04/13/98
DESIGN FILE IS L:±trbridge±0260apty.dgn
DGN LEVELS ON = 1-63

ESTIMATED QUANTITIES

	ITEM NO.	ITEM	UNIT	TOTAL EST. QUANTITY	
	2031.501	FIELD OFFICE TYPE D	EACH	1	
	2104.501	REMOVE CURB AND GUTTER	LIN. FT.	20	
	2105.515	UNCLASSIFIED EXCAVATION	CU.YD.	15	(P)
	2105.523	COMMON BORROW (CV)	CU.YD.	4347	(P)
	2105.525	TOPSOIL BORROW (CV)	CU.YD.	247	(P)
	2211.503	AGGREGATE BASE CLASS 2 (CV)	CU.YD.	181	(P)
	2402.583	ORNAMENTAL METAL RAILING	LIN. FT.	325	
(1)	2411.507	CONCRETE STAIRWAY	EACH	1	
	2501.511	18" R.C. PIPE CULVERT	LIN. FT.	49	
	2501.515	18" R.C. PIPE APRON	EACH	2	
	2511.501	RANDOM RIPRAP, CLASS III	CU.YD.	55	
(2)	2521.501	4" CONCRETE WALK	SQ. FT.	5178	
(3)	2521.501	5" CONCRETE WALK	SQ. FT.	2152	
	2531.501	CONCRETE CURB AND GUTTER, DESIGN B620	LIN. FT.	20	
(6)	2554.501	TRAFFIC BARRIER, DESIGN B8307	LIN. FT.	245	
	0563.601	TRAFFIC CONTROL	LUMP SUM	1	
	2571.501	CONIFEROUS TREE 5' HT., B & B	TREE	16	
	2571.502	DECIDUOUS TREE 2" CAL., B & B	TREE	3	
	2571.505	DECIDUOUS SHRUB 3' HT., CONT.	SHRUB	21	
	2573.503	SILT FENCE, PREASSEMBLED (INCLUDES MAINTENANCE)	LIN. FT.	1008	
(4)	2575.501	SEEDING	ACRE	0.6	(P)
(4)	2575.502	SEED MIXTURE 15A	POUND	29	
(4)	2575.502	SEED MIXTURE 50A	POUND	2	
(4)	2575.511	MULCH MATERIAL TYPE 1	TON	1.2	
(6)	2575.513	MULCH MATERIAL TYPE 9	CU. YD.	17	
(5)	2575.519	DISK ANCHORING	ACRE	0.6	(P)
	2575.523	WOOD FIBER BLANKET, TYPE REGULAR, INCLUDES MAINTENANCE	SQ. YD.	425	
(4)	2575.532	COMMERCIAL FERTILIZER ANALYSIS 10-10-10	POUND	120	

QUANTITY NOTES:

(1) COST OF REINFORCEMENT BARS SHALL BE INCIDENTAL TO "CONCRETE STAIRWAY, MIX NO. 3A32"
VOLUME OF CONCRETE APPROXIMATELY 2.8 CU. YD. WEIGHT OF REINFORCEMENT BARS APPROXIMATELY 140 POUNDS.

(2) VOLUME OF CONCRETE APPROXIMATELY 64 CU. YD.

(3) COST OF REINFORCEMENT BARS SHALL BE INCIDENTAL TO "5" CONCRETE WALK".
VOLUME OF CONCRETE APPROXIMATELY 40 CU. YD. WEIGHT OF REINFORCEMENT BARS APPROXIMATELY 575 POUNDS.

(4) APPLY TO ALL EXPOSED AREAS.

(5) DISK ANCHOR ALL SLOPES.

(6) FOR USE @ MEDIAN GUARDRAIL. SEE SHEET 62.

BASIS OF PLANNED QUANTITIES:

SEED MIXTURE 15A	50 LBS/ACRE
SEED MIXTURE 50A	50 LBS/ACRE
MULCH MATERIAL TYPE 1	2 TON/ACRE
COMMERCIAL FERTILIZER	200 LBS/ACRE

STANDARD PLATES

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION SHALL APPLY ON THIS PROJECT.

PLATE NO.	DESCRIPTION
3000 L	REINFORCED CONCRETE PIPE (5 SHEETS)
3100 G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
7036 D	PEDESTRIAN CURB RAMP (FOR THE HANDICAPPED)
7100 G	CONCRETE CURB AND GUTTERS (DESIGN B DESIGN V)
8307 P	STEEL PLATE BEAM GUARDRAIL (2 SHEETS)

UTILITY COMPANIES

CITY OF ROCHESTER
201 4th STREET SE
ROOM 108
ROCHESTER, MN 55904

TCI OF SOUTHERN MINNESOTA
1255 EAST CIRCLE DRIVE NE
PO BOX 59
ROCHESTER, MN. 55903

US WEST COMMUNICATIONS
320 2nd AVENUE SW
ROCHESTER, MN 55902

PEOPLES COOPERATIVE POWER
3935 HWY 14 EAST
ROCHESTER, MN 55904

ROCHESTER PUBLIC UTILITIES
4000 EAST RIVER RD NE
ROCHESTER, MN 55906

PEOPLES NATURAL GAS
519 1st AVENUE SW
PO BOX 6538
ROCHESTER, MN 55902

AS-BUILT

MAR 1 4 2001

ENGINEERING

REFERENCE FILES
DM = 1-63
mnroadm.dgn

CERTIFIED BY David H. Dahlquist PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: APPROACH QUANTITIES

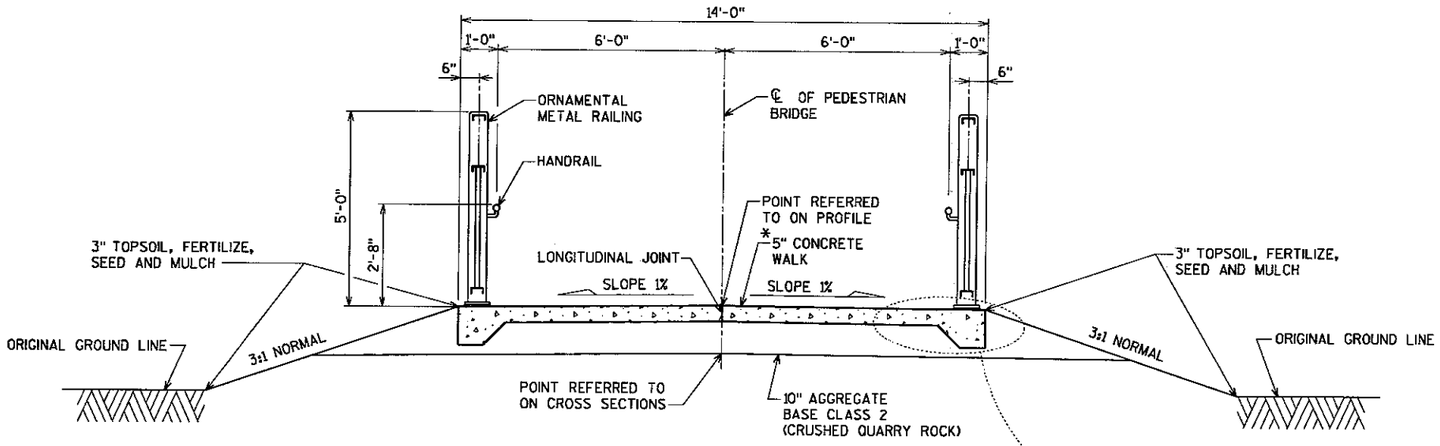
DES: PWD | DR: GLD | APPROVED: S-7-98
CHK: CBM | CHK:

SHEET NO. 54 OF 66 SHEETS

BRIDGE NO. 55562

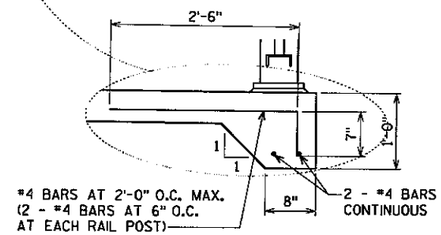
PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

PLOT NAME = P:±2LAS17±0260APTY.PRF
PEN TABLE = ±PLOT72±LASER±smbr.tbl
DATE OF PLOT = 04/09/98
DESIGN FILE IS U:±trbridge±0260apty.dgn
DGN LEVELS ON = 1-63

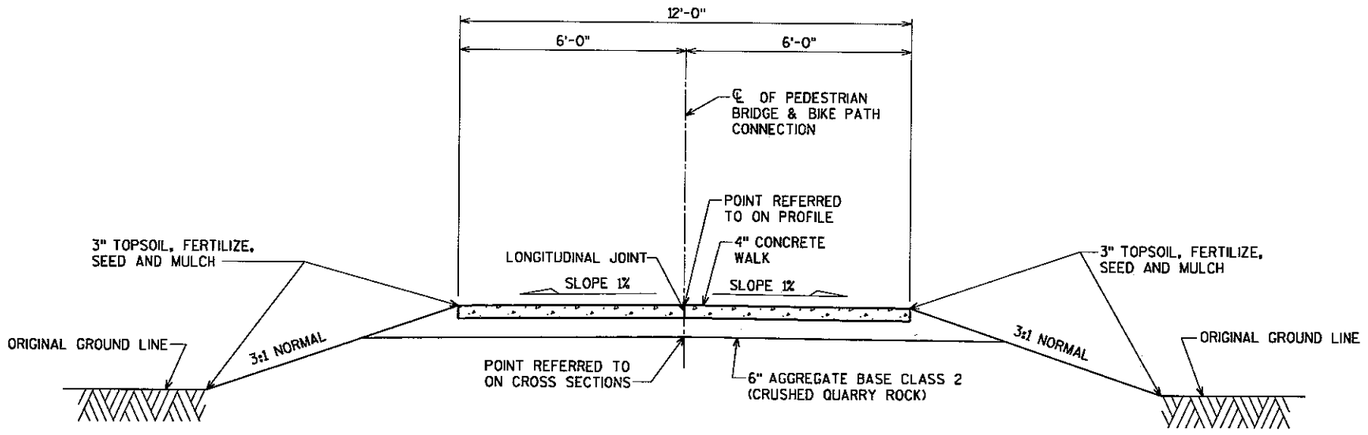


TYP. SECTION THRU RAMP WITH RAILING

WEST APPROACH STA. 15+94.00 TO STA. 17+10.88
EAST APPROACH STA. 22+36.77 TO STA. 22+73.60



* PAYMENT FOR REINFORCEMENT BARS SHALL BE INCIDENTAL TO BID ITEM "5" CONCRETE WALK".



TYP. SECTION THRU BIKE PATH CONNECTION & RAMP WITHOUT RAILING

WEST APPROACH STA. 15+86.67 TO STA. 15+94.00
EAST APPROACH STA. 22+73.60 TO STA. 25+44.91

NOTES

PLACE TRANSVERSE CONTRACTION JOINTS @ 6' MAXIMUM SPACING ALONG RAMP AND BIKE PATH CONNECTION CENTERLINES.

TRANSVERSE EXPANSION JOINTS, FILLED WITH ½ INCH PREFORMED FILLER MATERIAL, SHALL BE PLACED AS SHOWN ON SHEETS 59 & 60.

AS-BUILT

MAR 14 2001

ENGINEERING

REFERENCE FILES
DGN = 1-63
ennant.dgn

CERTIFIED BY David H Bantz
PROFESSIONAL ENGINEER
REG. NO. 15433 4/13 19 98

S.A.P. NO. 55-622-34

TITLE: TYPICAL SECTIONS RAMP APPROACHES

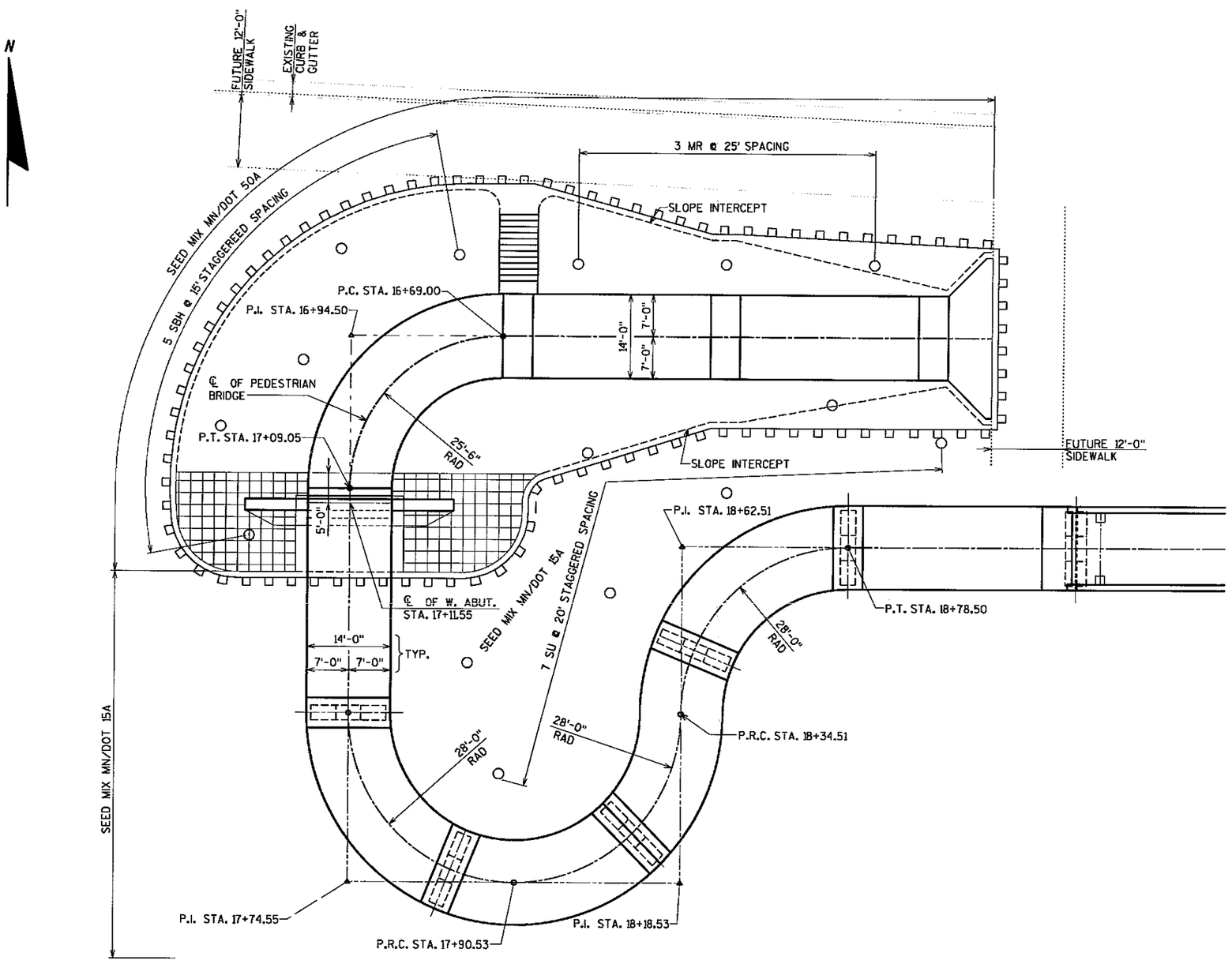
DES: PWD | DR: GLD | APPROVED: 5-7-98
CHK: CBM | CHK:

SHEET NO. 55 OF 66 SHEETS

BRIDGE NO. 55562

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

PLOT NAME = P:±2LAS17±0260EROW.PRF
PEN TABLE = ±PLOT72±LASER±smbr.tbl
DATE OF PLOT = 04/09/98
DESIGN FILE IS L:\±trbridge±0260eros.dgn
DGN LEVELS ON = 1-63



LEGEND

- SILT FENCE
- WOOD FIBER BLANKETS
- RANDOM RIPRAP, CLASS III
- CULVERT
- INPLACE APRON
- APRON
- PLANT STOCK
- MR MAPLE, RED
- SBH SPRUCE, BLACK HILLS
- SU FRAGRANT SUMAC
- SURFACE FLOW DIRECTION

NOTES

SILT FENCE SHALL FOLLOW, AS CLOSE AS POSSIBLE, TO A SINGLE CONTOUR LINE.

THE CONTRACTOR SHALL PROVIDE APPROXIMATE EROSION CONTROL DEVICES FOR STOCKPILE AREAS.

AS-BUILT

MAR 14 2001

ENGINEERING

REFERENCE FILES
DM = 1-63
0260ep.dgn
DM = 1-63
ainnaht.dgn

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David H. Dahlstaff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: WEST APPROACH EROSION AND LANDSCAPE PLAN

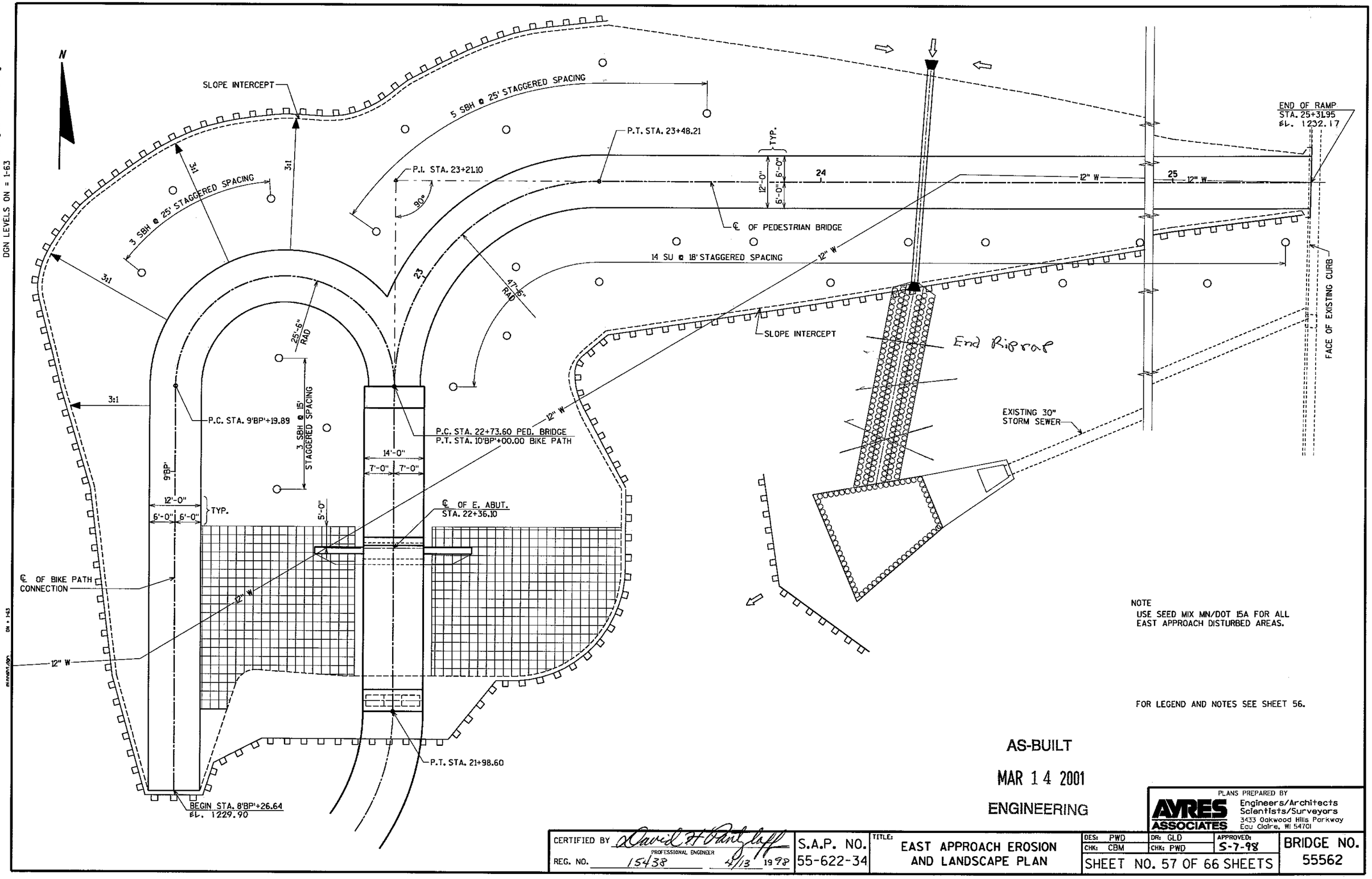
DES: PWD	DR: GLD	APPROVED: 5-7-98
CHK: CBM	CHK: PWD	

SHEET NO. 56 OF 66 SHEETS

BRIDGE NO. 55562

PLOT NAME = P:±2LAS17±0260EROE.PRF
PEN TABLE = ±PLOT72±LASER±smbr.tbl
DATE OF PLOT = 04/13/98
DESIGN FILE IS U:±trbridge±0260eros.dgn
DGN LEVELS ON = 1-63

REFERENCE FILES
DN = 143
m:\mdot\...dgn



NOTE
USE SEED MIX MN/DOT 15A FOR ALL EAST APPROACH DISTURBED AREAS.

FOR LEGEND AND NOTES SEE SHEET 56.

AS-BUILT

MAR 1 4 2001

ENGINEERING

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David F. Danhaff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 1998

S.A.P. NO. 55-622-34

TITLE: EAST APPROACH EROSION AND LANDSCAPE PLAN

DES: PWD	DR: GLD	APPROVED: S-7-98
CHK: CBM	CHK: PWD	

SHEET NO. 57 OF 66 SHEETS

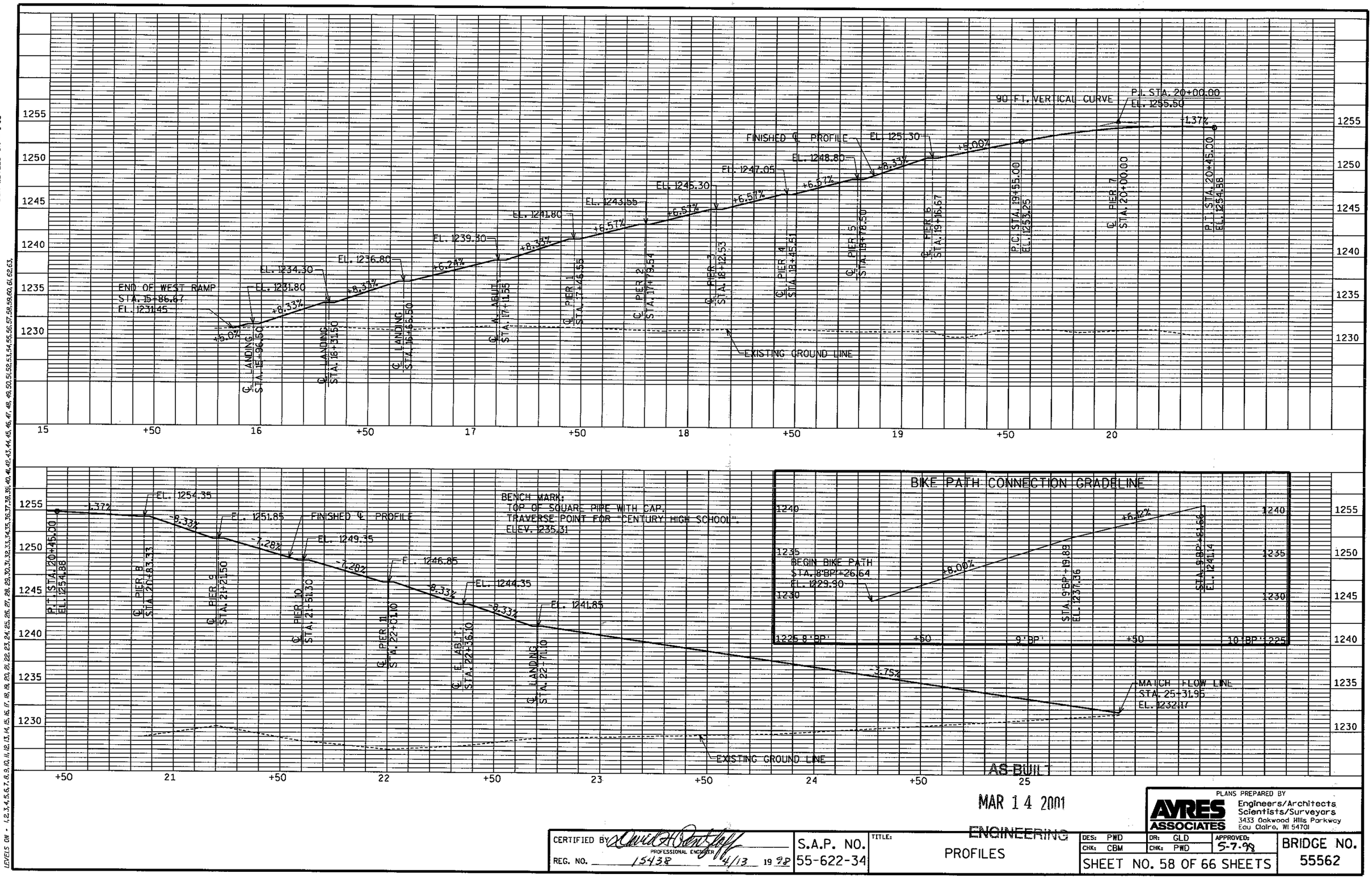
BRIDGE NO. 55562

PEN TABLE = *PLOTT2±LASER±V80PPSHT.tbl
DATE OF PLOT: 04/09/98
DESIGN FILE = U±±rbridge±0260prsh.dgn
DGN LEVELS ON = 1-63

0260prshreFON = 1-63

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,

ORIGINATOR:
DATE:
SCALE:
FILE NAME:



AS-BUILT

MAR 14 2001

ENGINEERING

CERTIFIED BY David H. Ronkoff
PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 19 98

S.A.P. NO. 55-622-34

TITLE: PROFILES

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

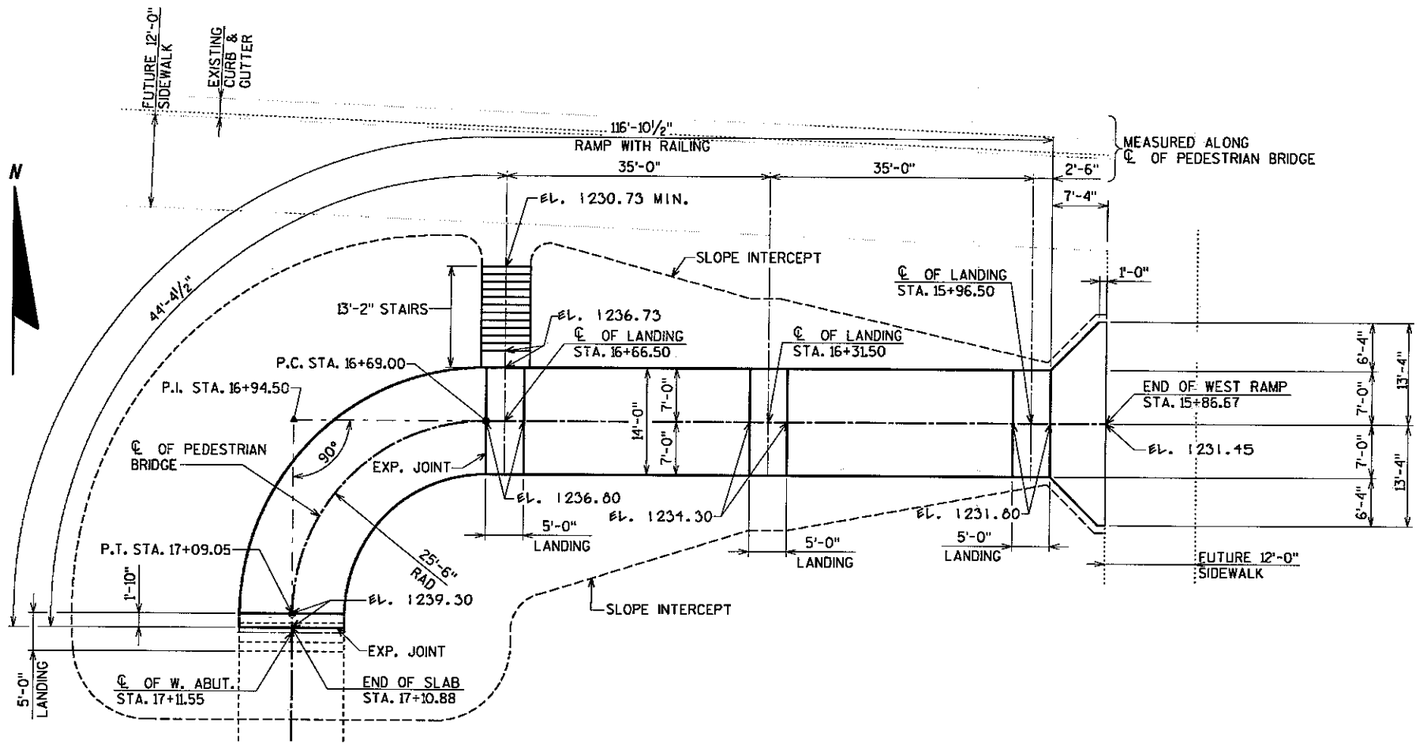
DES: PWD	DR: GLD	APPROVED: 5-7-98
CHK: CBM	CHK: PWD	

SHEET NO. 58 OF 66 SHEETS

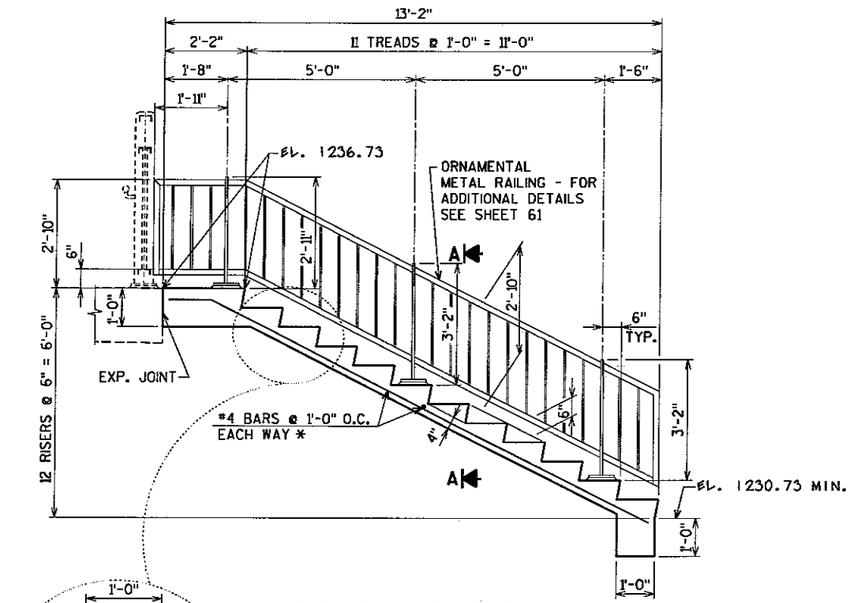
BRIDGE NO. 55562

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DESIGN FILE IS U:±trbridge±0260app.dgn
DGN LEVELS ON = 1-63

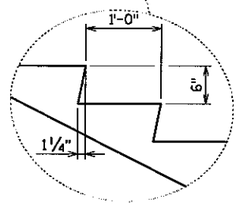
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0260pp1.dgn DN = 1-63
0260pp2.dgn DN = 1-63
0260pp3.dgn mmdn1.dgn



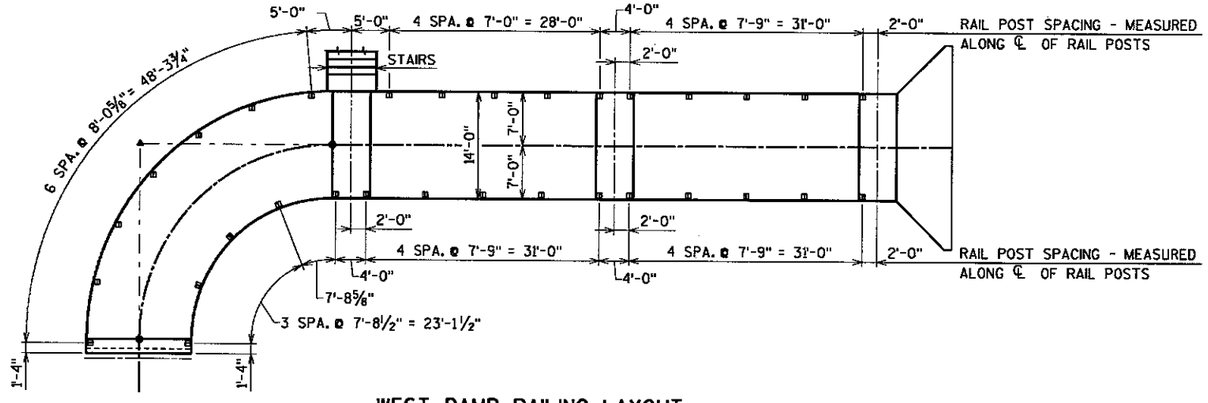
WEST RAMP LAYOUT



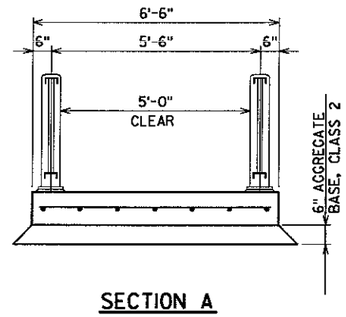
ELEVATION OF STAIRWAY



* PAYMENT FOR REINFORCEMENT BARS SHALL BE INCIDENTAL TO BID ITEM " CONCRETE STAIRWAY.



WEST RAMP RAILING LAYOUT



SECTION A

AS-BUILT

MAR 1 4 2001

ENGINEERING

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

CERTIFIED BY David H. Dantzloff PROFESSIONAL ENGINEER
REG. NO. 15438 4/13 19 98

S.A.P. NO. 55-622-34

TITLE: WEST RAMP LAYOUT

DES: PWD | DR: GLD | APPROVED: S-7-98
CHK: CBM | CHK: PWD

SHEET NO. 59 OF 66 SHEETS

BRIDGE NO. 55562

PLOT NAME = P:±2LAS17±0260APPE.PRF
PEN TABLE = ±PLOT72±LASER±smbr.tbl
DATE OF PLOT = 04/13/98
DESIGN FILE IS U:±trbridge±0260app.dgn
DGN LEVELS ON = 1-63

REFERENCE FILES

N

SLOPE INTERCEPT
74'-7⅞"
3:1
80'-1⅜"
25'-6" RAD
47'-6" RAD
5'-0"
23
EXP. JOINT
P.C. STA. 22+73.60 PED. BRIDGE
P.T. STA. 10'BP'+00.00 BIKE PATH
EXP. JOINT
P.C. STA. 9'BP'+19.89
EL. 1241.85
4'-6"
36'-10" RAMP WITH METAL RAILING
5'-0" LANDING
14'-0"
7'-0" 7'-0"
8'BP'
12'-0"
6'-0" 6'-0" TYP.
5'-0" LANDING
1'-10"
EL. 1244.35
EXP. JOINT
END OF SLAB
STA. 22+36.77
1'-4"
4 SPA. @ 7'-9" = 31'-0" RAIL POST SPACING TYP. BOTH SIDES
℄ OF E. ABUT.
STA. 22+36.10
℄ OF BIKE PATH CONNECTION
93'-3"
12" W
MEASURED ALONG ℄ OF BIKE PATH
BEGIN STA. 8'BP'+26.64
EL. 1229.90

Did Not Construct
STA 8BP+26.64 to Intersection
of main walk

258'-4¼" RAMP WITHOUT RAILING
183'-8⅞"
MEASURED ALONG ℄ OF PED. BRIDGE
P.T. STA. 23+48.21
P.I. STA. 23+21.10
90°
EXP. JOINT
EL. 1239.01
℄ OF PEDESTRIAN BRIDGE
TYP.
12'-0"
6'-0" 6'-0"
24
49'-0"
26'-0"
18" RCP 49' LONG WITH APRON ENDWALLS
86°
12" W
25
12" W
END OF RAMP
STA. 25+31.95
EL. 1232.17
STA. 24+23.50
EXP. JOINT
STA. 24+40
STA. 25+31.95, 10' RT. TO 10' LT.
REMOVE CURB & GUTTER.
CONSTRUCT CURB & GUTTER
B620 WITH HANDICAP RAMP.
FACE OF EXISTING CURB
23'-0"
12" W
173°
SLOPE INTERCEPT
A
A
10'-0"
46'-0"
RANDOM RIPRAP, CLASS III (GRANULAR FILTER, TYPE IV)
EXISTING 30" STORM SEWER
EXISTING CB #20
TOP = 1231.90
INV (S) = 1225.16
INV (E) = 1225.16
INV (NE) = 1223.56
INV (SW) = 1223.46
27'-0"

EAST RAMP LAYOUT

3'-0" 4'-0" 3'-0"
2 1
RANDOM RIPRAP CLASS III
2 1
(GRANULAR FILTER TYPE IV)

SECTION A

AS-BUILT
MAR 1 4 2001
ENGINEERING

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S.A.P. NO. 55-622-34

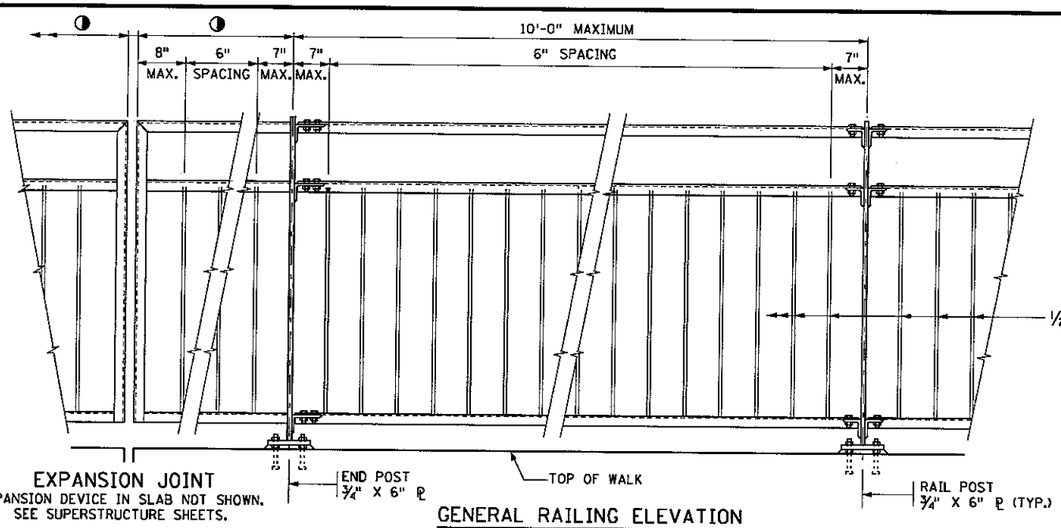
TITLE: EAST RAMP LAYOUT

DES: PWD | DR: GLD | APPROVED: 5-7-98
CHK: CBM | CHK: PWD

SHEET NO. 60 OF 66 SHEETS

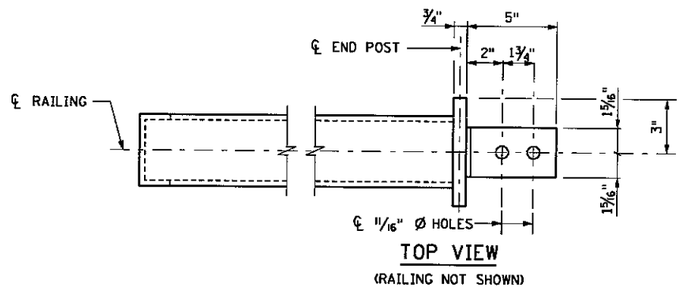
BRIDGE NO. 55562

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PEN TABLE = ±PLOT72±LASER±smbr.tbl
DATE OF PLOT = 04/09/98
DESIGN FILE IS U:±trbridge±0260app.dgn
DGN LEVELS ON = 1-63

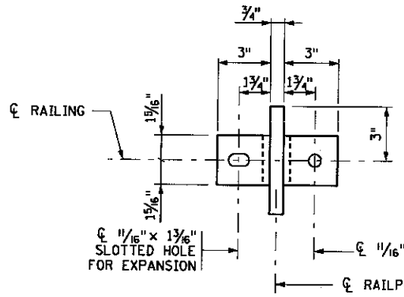


GENERAL RAILING ELEVATION

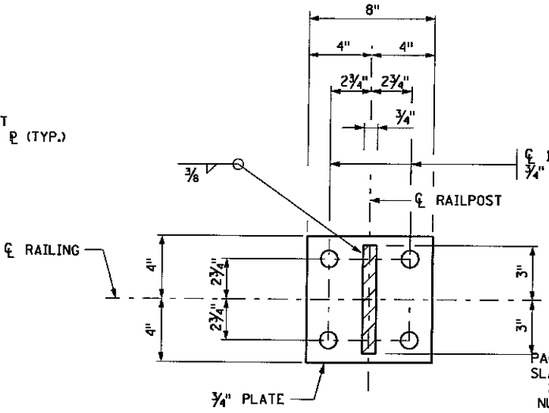
◑ 1'-2" AT WEST AND EAST ABUTMENTS
2'-5" AT STAIRWAY OPENING
1'-11" AT ALL OTHER LANDINGS



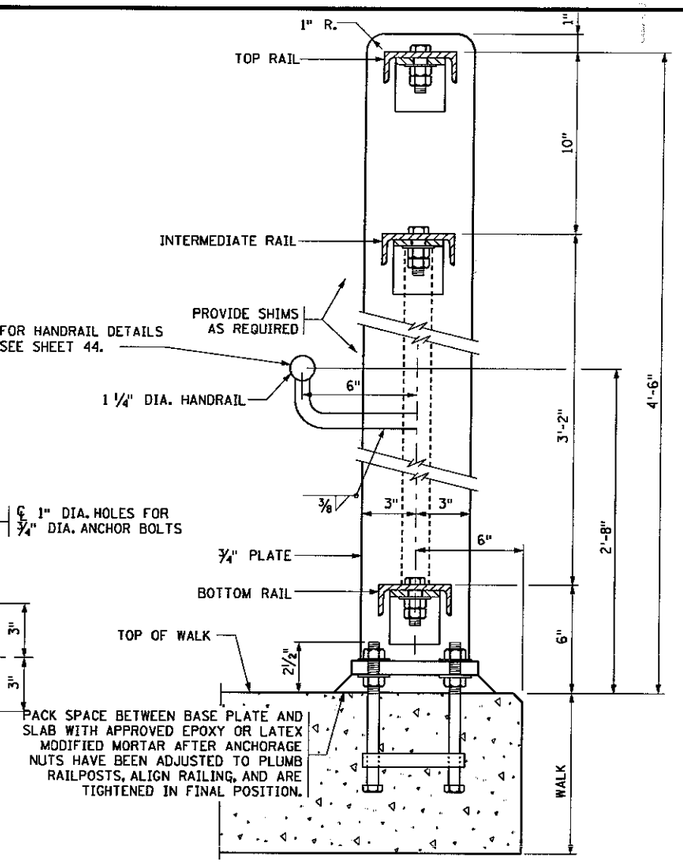
TOP VIEW
(RAILING NOT SHOWN)



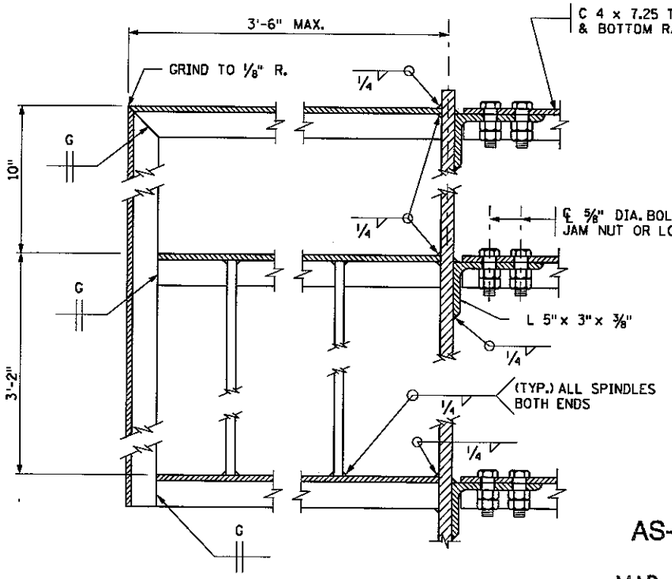
TOP VIEW
(RAILING NOT SHOWN)



RAILPOST BASE PLATE

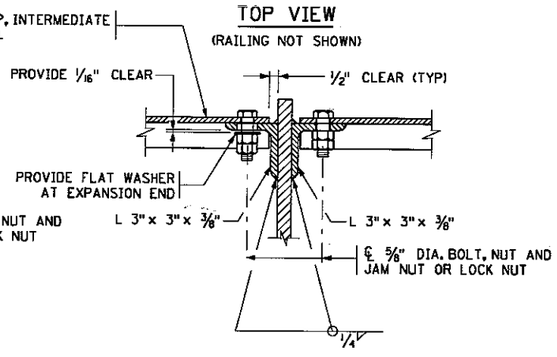


TYPICAL RAILPOST



PART ELEVATION

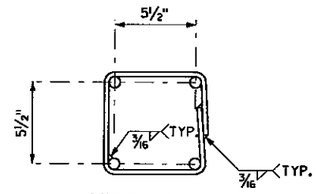
END POST DETAILS



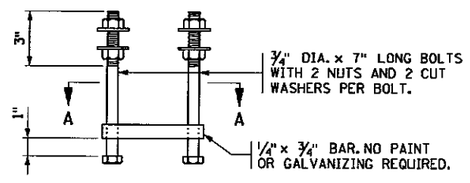
PART ELEVATION

TYPICAL INTERMEDIATE POST RAILING CONNECTIONS

NOTE:
TOP, INTERMEDIATE & BOTTOM RAIL CONNECTIONS SIMILAR.



SECTION A-A



ELEVATION

RAILPOST ANCHORAGE

CHEMICAL ANCHORS MAY BE USED INSTEAD OF CAST-IN-PLACE ANCHORAGE. REINFORCEMENT SHALL BE CAREFULLY PLACED TO AVOID DRILLING HOLES FOR ANCHORS. SEE SPECIAL PROVISIONS.

GENERAL NOTES:

ALL RAILPOSTS TO BE SET VERTICAL.

STANDARD STEEL SECTIONS MAY BE SUBSTITUTED WITH WELDED OR BENT PLATE SECTIONS THAT HAVE SIMILAR MATERIAL AND SECTION PROPERTIES AS NECESSARY TO ACCOMMODATE FABRICATION OF HORIZONTAL CURVE AND STAIR RAIL SECTIONS.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

ALL MATERIAL SHALL COMPLY WITH SPEC. 3306.

GALVANIZE BOLTS, NUTS, AND WASHERS PER SPEC. 3392.

GALVANIZE ALL OTHER STRUCTURAL STEEL PER SPEC. 3394 AFTER FABRICATION.

PRICE BID FOR ORNAMENTAL METAL RAILING INCLUDES ALL MATERIAL SHOWN ON THIS SHEET.

LENGTH OF "ORNAMENTAL METAL RAILING" FOR PAYMENT WILL BE MEASURED FROM END TO END OF CHANNEL WITH NO DEDUCTION FOR OPEN JOINT.

SEE SPECIAL PROVISIONS FOR ADDITIONAL PAINTING REQUIREMENTS AT AESTHETIC LOCATIONS.

ALL RAILING MEMBERS SHALL BE FLAT AFTER FABRICATION AND GALVANIZING TO WITHIN ⅛" IN 10 FT. BY MECHANICAL MEANS WITHOUT DAMAGE TO THE ZINC COATING.

SEE SHEET 59 FOR STAIRWAY RAIL LAYOUT AND DIMENSIONS. DO NOT INCLUDE HANDRAIL OR INTERMEDIATE RAIL FOR STAIRWAY RAIL APPLICATION.

AS-BUILT

MAR 14 2001

ENGINEERING

REFERENCE FILES

DN = 1-63

RAILPOST.DGN

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
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CERTIFIED BY David D. Dantzler PROFESSIONAL ENGINEER
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S.A.P. NO. 55-622-34

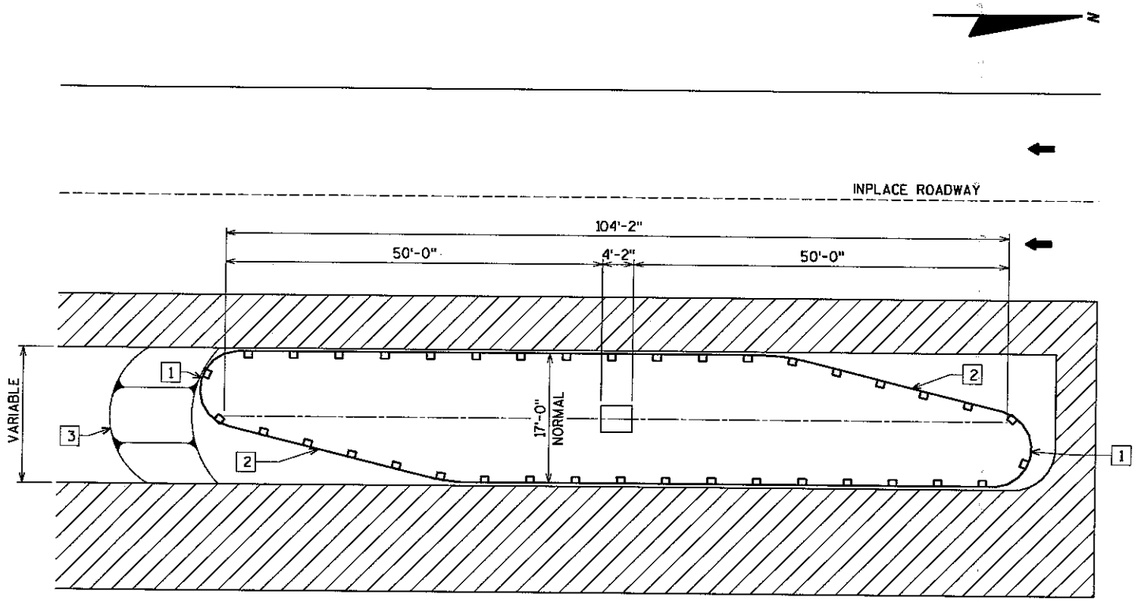
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DES: PWD	DR: CLS	APPROVED: 5-7-98
CHK: CBM	CHK: PWD	

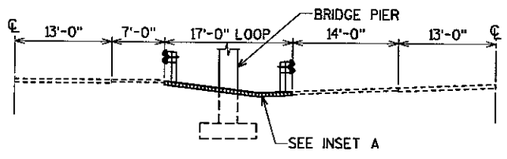
SHEET NO. 61 OF 66 SHEETS

BRIDGE NO. 55562

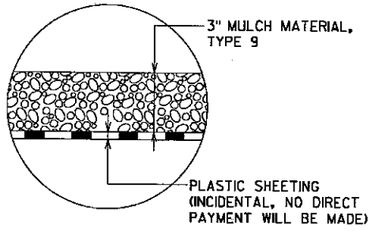
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PEN TABLE = ±PLOT72±LASER±smbr.tbl
DATE OF PLOT = 04/13/98
DESIGN FILE IS U:±trbridge±0260apgr.dgn
DGN LEVELS ON = 1-63
DN = 1-63
0260sp.dgn
DN = 1-63
alrnoint.dgn
REFERENCE FILES



17' GUARDRAIL LOOP



SECTION THRU GUARDRAIL LOOP



INSET A

AGGREGATE MULCH REQUIREMENTS

3/8" TO 2", WITH 5% ALLOWABLE PASSING THE 3/8" SIEVE. CRUSHING IS ALLOWABLE, BUT NOT REQUIRED.

TOP OF MULCH SHALL MATCH EXISTING MEDIAN DITCH ELEVATION TO ENSURE PROPER DRAINAGE.

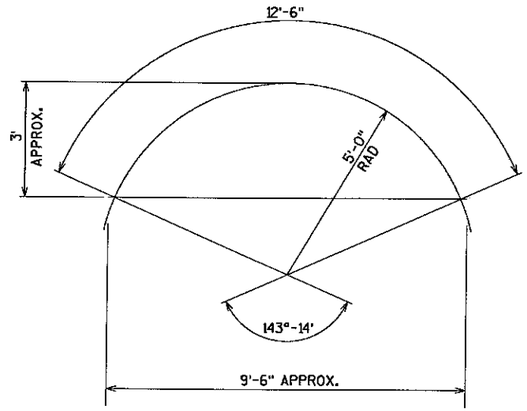


PLATE BEAM NOSE [4]
(5' RADIUS)

[1] 5 FOOT RADIUS NOSE SECTION (12.5' PREFORMED CURVED RAIL SECTION)

[2] 25 FOOT OF PREFORMED (40' RADIUS) RAIL SECTIONS.

[3] THE MEDIAN DITCH SHALL BE FILLED TO PROVIDE AN ELEVATION OF GUARDRAIL APPROXIMATELY (WITHIN 6"±) THE SAME AS IF INSTALLED ON THE SHOULDER. EXTEND FILL TO GUARDRAIL NOSE AND TAPER TO MEDIAN DITCH ON 10:1 SLOPE.

[4] STANDARD PLATE BEAM GUARDRAIL SECTION HAVING STANDARD PUNCHING AT BOTH ENDS WITH INTERMEDIATE 3/4" × 2 7/16" SLOT. SEE STANDARD PLATE 8307P.

AS-BUILT

MAR 1 4 2001

ENGINEERING

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REG. NO. 15438 4/13 19 98

S.A.P. NO. 55-622-34

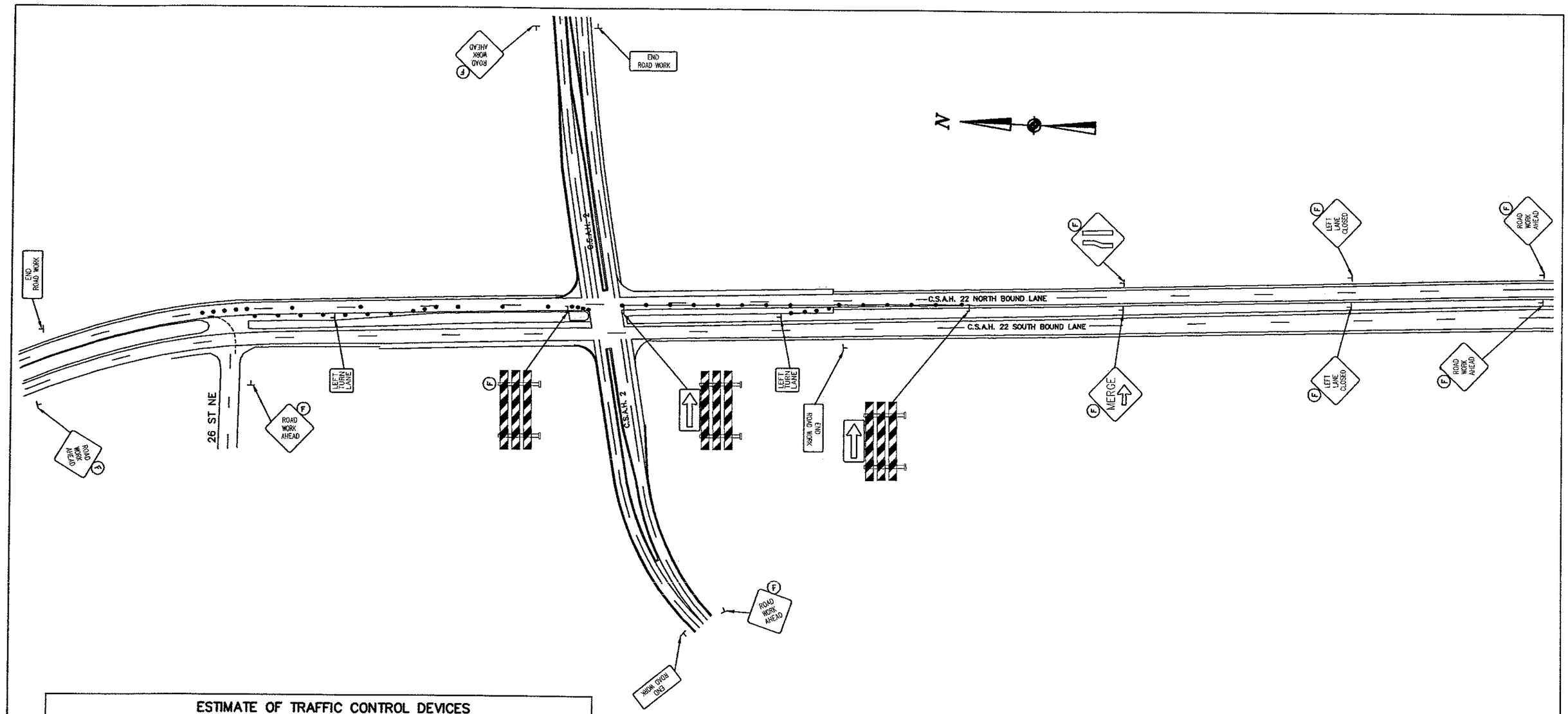
TITLE: GUARDRAIL INSTALLATION AT MEDIAN

DES: PWD | DR: GLD | APPROVED: 5-7-98
CHK: CBM | CHK:

SHEET NO. 62 OF 66 SHEETS

BRIDGE NO. 55562

PLANS PREPARED BY
AYRES ASSOCIATES
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Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701



ESTIMATE OF TRAFFIC CONTROL DEVICES

DEVICE	NUMBER	SIZE	COLOR	QUANTITY	DEVICE	NUMBER	SIZE	COLOR	QUANTITY
LEFT TURN LANE	R3-X2	30"x 30"	BLK/WH	2	LEFT LANE CLOSED	W21-X5L	48"x 48"	BLK/OR	2
	W1-6	48"x 24"	BLK/OR	2	END ROAD WORK	G20-2A	48"x 24"	BLK/OR	4
	W4-2	48"x 48"	BLK/OR	1		TYPE III	MIN. 6'	OR & WH	3
ROAD WORK AHEAD	W20-1	48"x 48"	BLK/OR	6		TYPE A	FLASHING LAMPS	AMBER	11
MERGE	W20-X3	48"x 48"	BLK/OR	1		REBOUNDABLE PLASTIC BARREL	APPROX. 36"	BLK/OR	42

TRAFFIC CONTROL LEGEND

- ⊥ POST OR STAND MOUNTED SIGN
- ⌊⌋ TYPE III BARRICADE
- (F) TYPE "A" AMBER FLASHING LAMP

AS-BUILT

MAR 14 20[illegible]

ENGINEER

TRAFFIC CONTROL NOTES

1. THE LOCATION OF SIGNS AND DEVICES WILL BE STAKED BY THE ENGINEER IN THE FIELD.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL ON THIS PROJECT.
3. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE FIELD MANUAL TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS DATED APRIL 1995.
4. CONSTRUCTION ZONE SIGNING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL INCLUDE, BUT NOT BE LIMITED TO SIGNS FOR LANE CLOSURE, EQUIPMENT AHEAD, BUMP, DIP, LOOSE GRAVEL, ETC. THE NUMBER AND LOCATION WILL BE DETERMINED BY THE CONTRACTORS OPERATION.
5. ALL BARRICADES ON THIS PROJECT SHALL BE REFLECTORIZED ON BOTH SIDES.

CERTIFIED BY Kevin M Biernat REG. NO. 19917 4/16/98
PROFESSIONAL ENGINEER

S.A.P. 55-622-34

SHEET 66 OF 66 SHEETS