

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 5	Plan
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
Section No. 8	Structure Plans

TOTAL SHEETS = 38

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY REHABILITATION-MAINTENANCE PROJECT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1190-05-77	---	---
1190-09-66	---	---
1192-06-63	---	---

CHIPPEWA FALLS - NEW AUBURN

BRPNT/CTH Q BRIDGE B-09-0066
USH 53
CHIPPEWA COUNTY

STATE PROJECT NUMBER
1190-05-77

BRPNT/CTH N B-09-0054 100TH AVE B-09-0058
USH 53
CHIPPEWA COUNTY

STATE PROJECT NUMBER
1190-09-66

BRPNT/CTH B B-09-0059 CTH Q B-09-0060
USH 53
CHIPPEWA COUNTY

STATE PROJECT NUMBER
1192-06-63



15

DESIGN DESIGNATION

A.A.D.T. 2012	= 12,600 AVG
A.A.D.T. 2022	= NA
D.H.V.	= NA
D.D.	= NA
T.	= NA
DESIGN SPEED	= 70 MPH
ESALS	= NA

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	
REFERENCE LINE	
COMBUSTIBLE FLUIDS	
UTILITIES	
ELECTRIC	— E —
FIBER OPTIC	— FO —
GAS	— G —
SANITARY SEWER	— SAN —
STORM SEWER	— SS —
TELEPHONE	— T —
WATER	— W —
UTILITY PEDESTAL	⊕
POWER POLE	⊙
TELEPHONE POLE	⊗

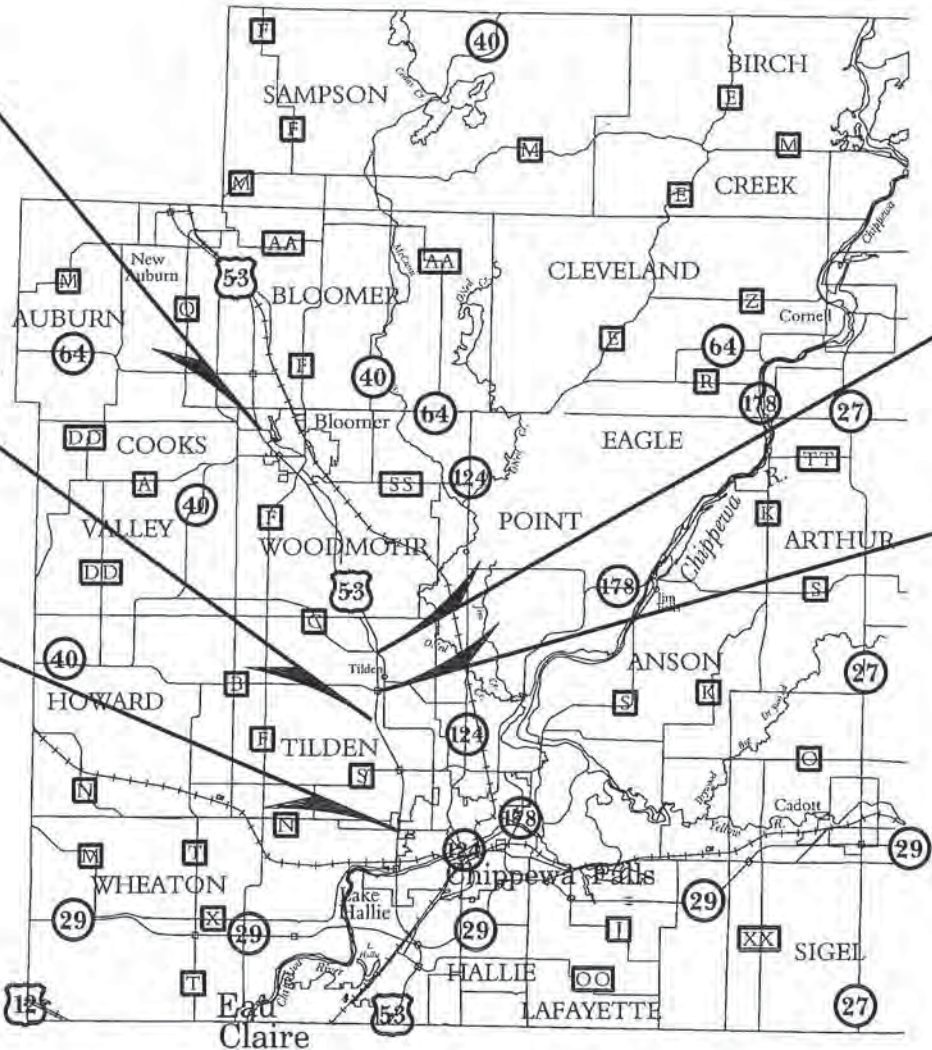
PROJECT 1190-05-77
STRUCTURE B-09-66
(CTH Q OVER USH 53)
☉ NB USH 53 STA 878+92
X = 469,394N
Y = 1,608,406E

PROJECT 1190-09-66 (2 OF 2)
STRUCTURE B-09-58
(100TH AVENUE OVER USH 53)
☉ NB USH 53 STA 365+45
X = 424,190N
Y = 1,626,754E

PROJECT 1190-09-66 (1 OF 2)
STRUCTURE B-09-54
(CTH N OVER USH 53)
☉ NB USH 53 STA 182+13
X = 406,905N
Y = 1,630,485E

PROJECT 1192-06-63 (2 OF 2)
STRUCTURE B-09-60
(CTH Q OVER USH 53)
☉ NB USH 53 STA 468+76
X = 434,514N
Y = 1,626,990E

PROJECT 1192-06-63 (1 OF 2)
STRUCTURE B-09-59
(CTH B OVER USH 53)
☉ NB USH 53 STA 410+55
X = 428,614N
Y = 1,627,107E



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	NW REGION
Surveyor	WILLIAM KOVALESKI, JR. PE
Designer	NICOLE PASSUELLO
Project Manager	DANIAL OJIBWAY
Regional Examiner	MARK FLOEDERER
Regional Supervisor	
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 31 Jan 14 Mark Floederer
(Signature)

E

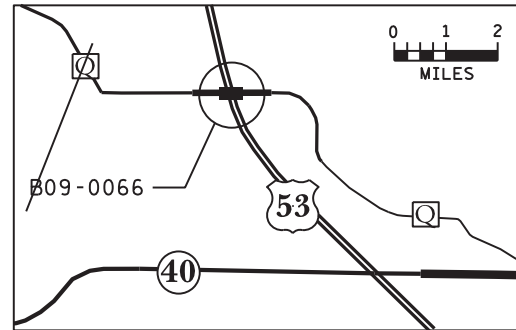
GENERAL NOTES:
1) WORK CONSISTS OF TRAFFIC CONTROL, CONTAINMENT ENCLOSURE ERECTION, ABRASIVE BLASTING SURFACE PREPERATION, AND APPLICATION OF NEW COATING SYSTEM FOR ALL STRUCTURAL STEEL OF PROJECT BRIDGE.
2) ENCLOSURE AND MATERIALS SHALL BE MAINTAINED TAUT AND IN SUCH A MANNER THAT IT WILL NOT OBSTRUCT/DISTRACT THE VIEW OF OR SNAG ON ANY PASSING VEHICLES.
3) USH 53 WILL BE KEPT OPEN TO A MIN. OF ONE LANE OF TRAFFIC AT ALL TIMES.
4) SIGNS AND DEVICES WILL BE IN CONFORMANCE WITH THE LATEST WISCONSIN MANUAL OF TRAFFIC CONTROL DEVICES (WMUTCD).
5) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.



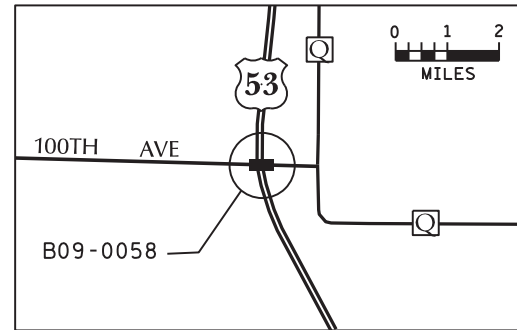
AREA CONTACTS		
<u>STATE OF WISCONSIN</u> DNR CONTACT: CHRIS WILLGER DNR/DOT LIAISON OFC. OF ENRG. & ENV. REVIEW PHONE: (715) 839-1609 WISDOT STRUCT. MAINT. ENGINEER GREGORY HAIG CELL: (715) 577-0646 WISDOT BRPAINT & HAZMAT COORD. WILLIAM KOVALESKI, JR PHONE: (715) 225-9431 WISDOT ENVIRONMENTAL COORD. NICK SCHAFF PHONE: (715) 836-2068	<u>CHIPPEWA COUNTY</u> COUNTY SHERIFF SHERIFF: JAMES L. KOWALCZYK 32 E SPRUCE ST. CHIPPEWA FALLS, WI 54729 NON-EMERG: (715) 726-7701 EMERGENCY: 911 EMERGENCY MANAGEMENT DIRECTOR: DENNIS BROWN 32 E. SPRUCE ST CHIPPEWA FALLS, WI 54729 PHONE: (715) 726-7728 HIGHWAY COMMISSIONER COMMISSIONER: BRUCE STELZNER 801 EAST GRAND AVENUE, CHIPPEWA FALLS, WI 54729 OFFICE: (715) 726-7914 SHOP: (715) 726-7915	<u>CITY OF CHIPPEWA FALLS</u> POLICE DEPARTMENT CHIEF: WENDY L. STELTER 210 ISLAND ST. CHIPPEWA FALLS, WI 54729 NON EMERG: (715)-723-4424 EMERG: 911 FIRE & EMS CHIEF: THOMAS LARSON 211 BAY ST. CHIPPEWA FALLS, WI 54729 NON EMERG: (715)-723-5710 EMERG: 911 STREET DEPARTMENT MANAGER: RICK RUF 5 BJORK-RIVERSIDE DR. CHIPPEWA FALLS, WI 54729 PHONE: (715)-723-4151

UTILITIES		
THE FOLLOWING UTILITIES HAVE FACILITIES WITH SERVICES IN THE PROJECT VICINITY. NO ADJUSTMENTS ARE ANTICIPATED.		
<u>COMMUNICATION LINE, ELECTRICITY, TRANSMISSION, GAS/PETROLEUM</u> NORTHERN STATES POWER COMPANY (XCEL ENERGY) CONTACT: DAWN SCHULTZ 1414 W HAMILTON AVE P.O. BOX 8 EAU CLAIRE, WI 54702-0008 PHONE: (715) 737-2482 <u>COMMUNICATION LINE</u> BLOOMER TELEPHONE COMPANY CONTACT: STEVE HEBERT 1120 15TH AVE BLOOMER, WI 54724-1697 PHONE: (715) 568-4830 CHARTER COMMUNICATIONS CONTACT: JAMEY OLDEEN 2304 S MAIN ST RICE LAKE, WI 54868 PHONE: (715) 236-5005 CCI SYSTEMS, INC (PACKERLAND BROADBAND) CONTACT: WAYNE CRETTON 105 KENT ST P.O. BOX 190 IRON MOUNTAIN, MI 49801 PHONE: (906) 282-3768	<u>COMMUNICATION LINE CONT.</u> CENTURYTEL OF NORTHERN WI, LLC CONTACT: MONTY PARKER 20 S WILSON AVE RICE LAKE, WI 54868 PHONE: (715) 234-5528 WISCONSIN BELL, INC. (AT&T WISCONSIN) CONTACT: AT&T WI DESIGN ENGR. 304 S DEWEY ST EAU CLAIRE, WI 54701 PHONE: (715) 839-5801 <u>WATER</u> CITY OF BLOOMER - WATER UTIL CONTACT: MIKE MEINDEL 1503 MAIN ST BLOOMER, WI 54724-1640 PHONE: (715) 568-2424 CHIPPEWA FALLS DEPT PUBLIC UTIL 30 W CENTRAL ST, # 209 CHIPPEWA FLS, WI 54729-2448 PHONE: (715)-720-6981	<u>ELECTRICITY / ELECTRICITY TRANSMISSION</u> CITY OF BLOOMER - ELECT. UTIL CONTACT: PETE PAULSON 1503 MAIN ST BLOOMER, WI 54724-1640 PHONE: (715) 568-4444 CHIPPEWA VALLEY ELECT COOP CONTACT: ROD PATTEN 317 S 8TH ST P.O. BOX 575 CORNELL, WI 54732-0575 PHONE: (715) 239-6800 <u>GAS/PETROLEUM</u> WIS. GAS LLC (WE ENERGIES) CONTACT: LATROY BRUMFIELD 333 WEST EVERETT ST MILWAUKEE, WI 53203 PHONE: (414) 221-5617

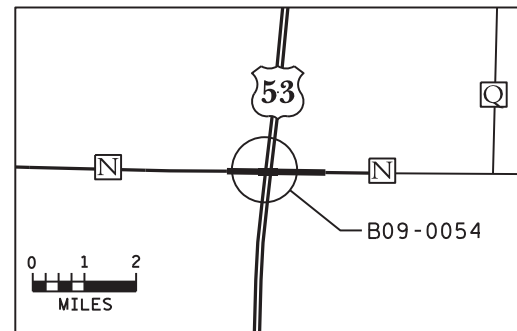
PROJECT 1190-05-77
B09-0066 - CTH Q OVER USH 53



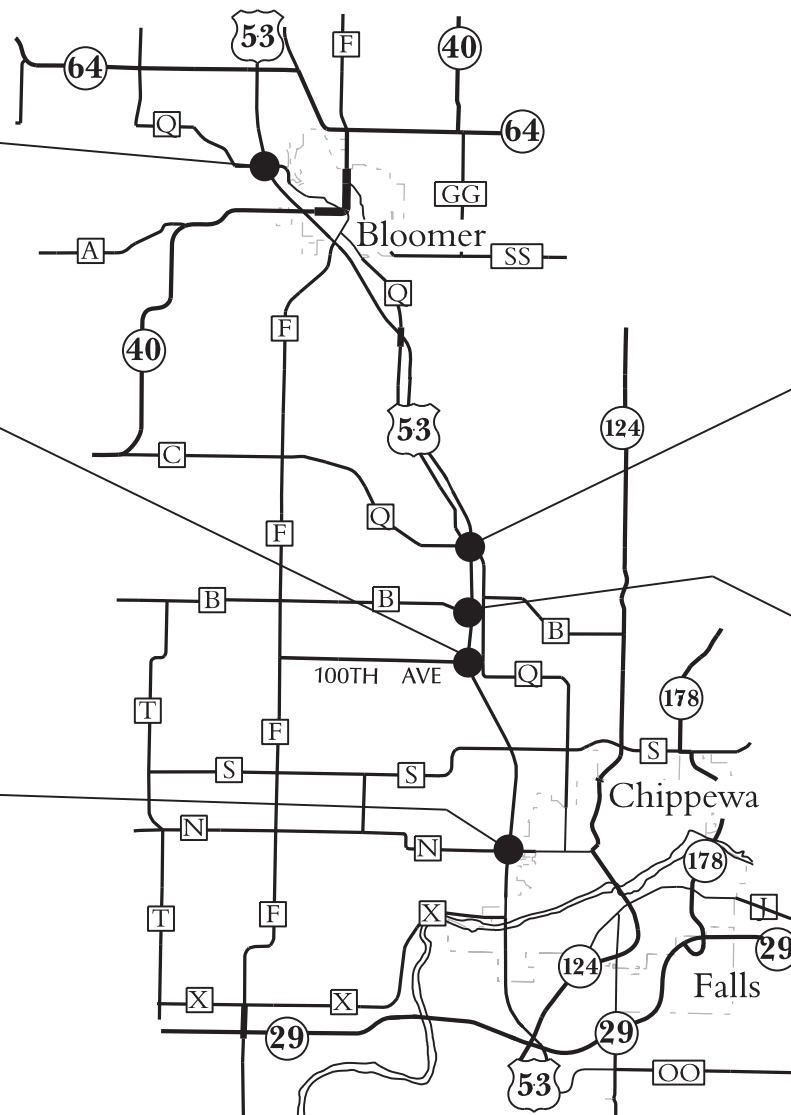
PROJECT 1192-06-63
B09-0058 - 100TH AVE OVER USH 53



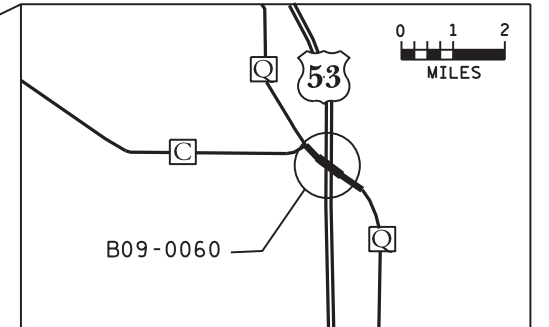
PROJECT 1192-06-63
B09-0054 - CTH N OVER USH 53



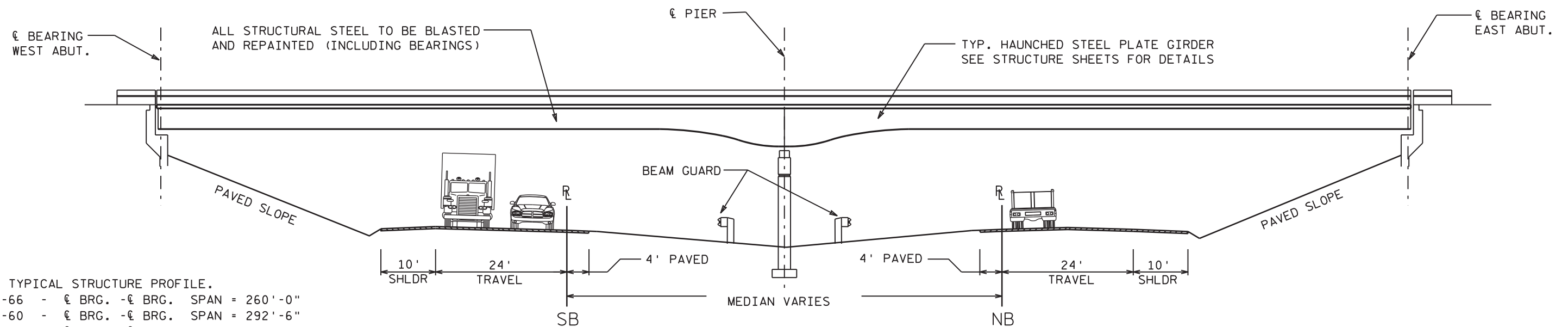
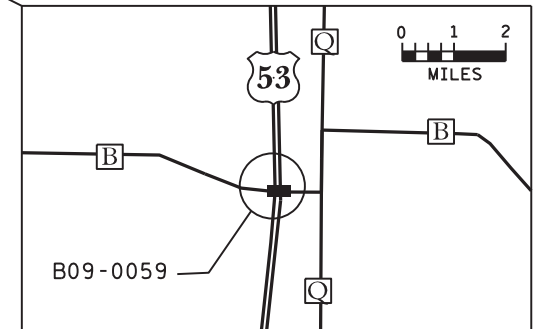
PROJECT VICINITY MAP



PROJECT 1190-09-66
B09-0060 - CTH Q OVER USH 53

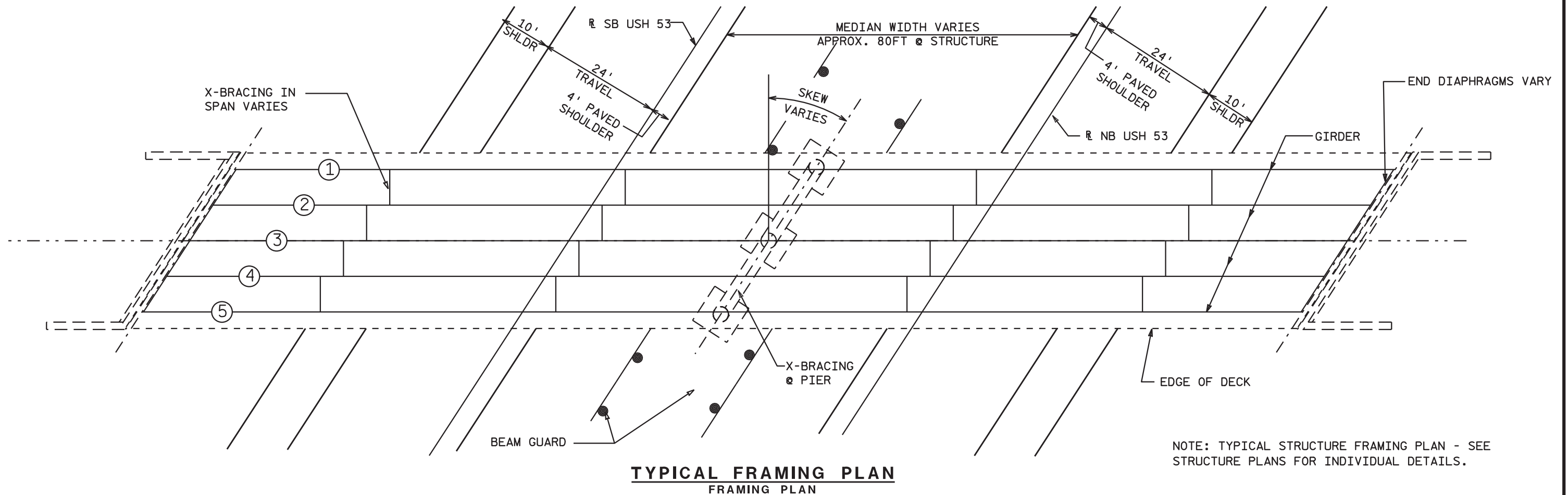
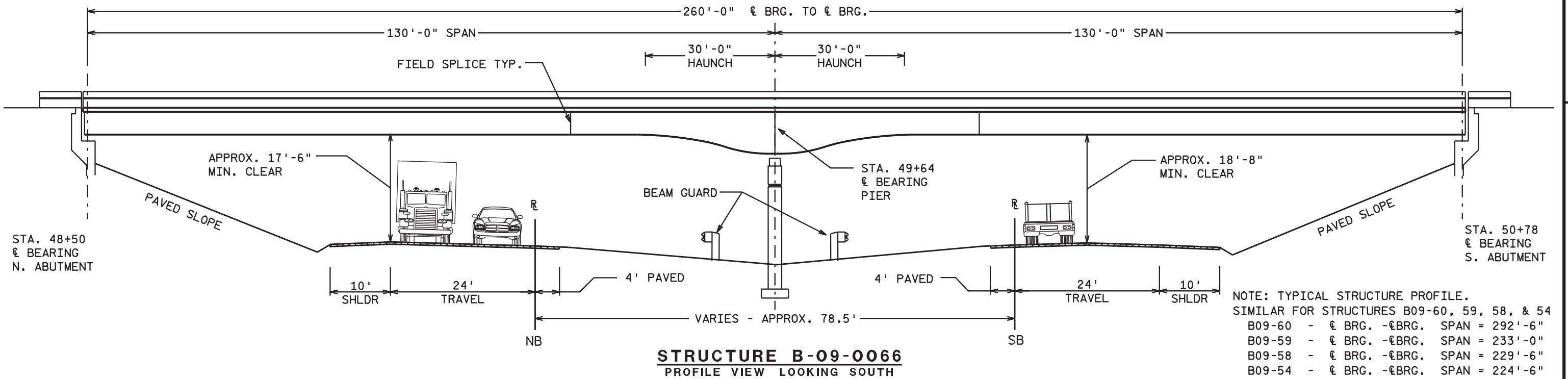


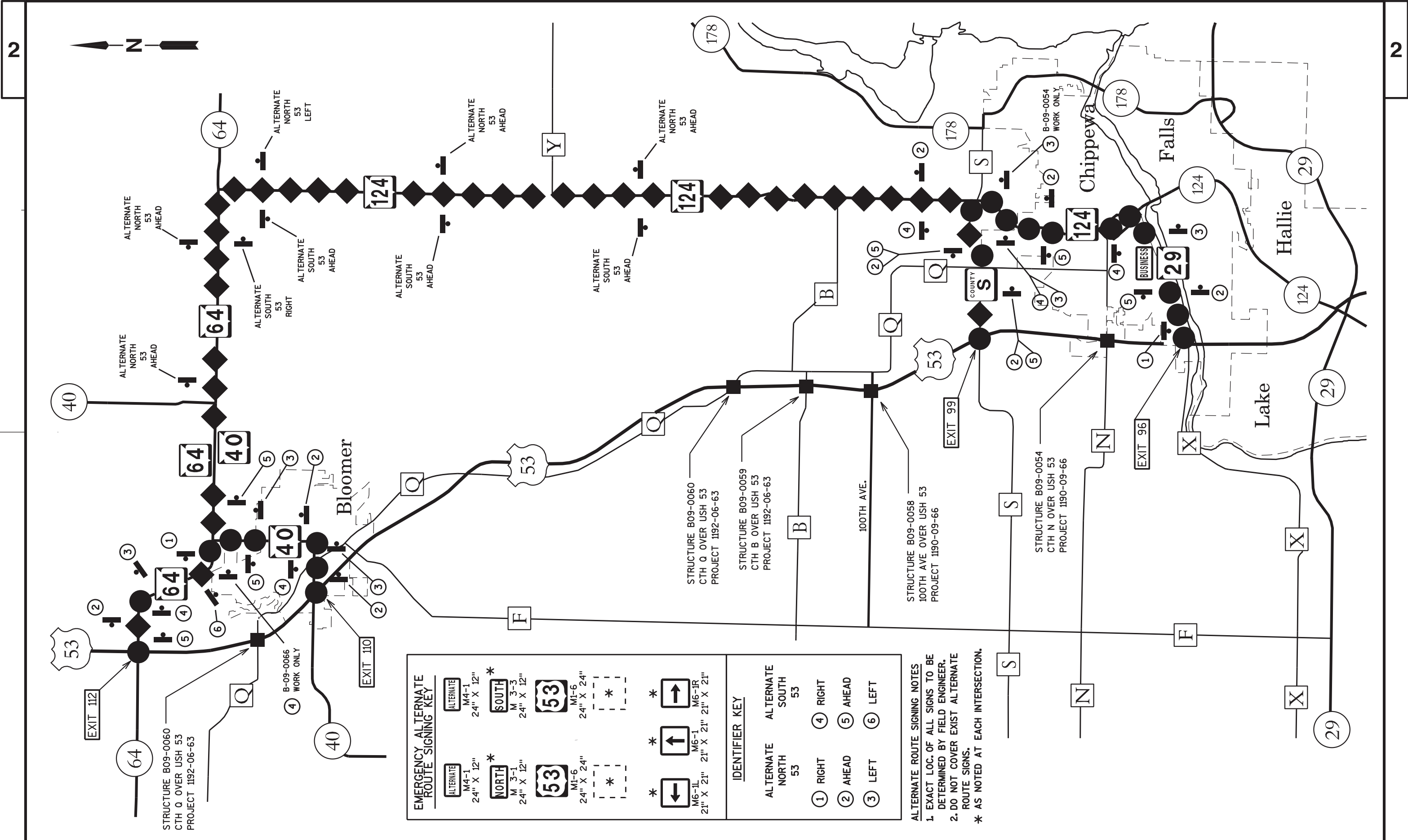
PROJECT 1190-09-66
B09-0059 - CTH B OVER USH 53



NOTE: TYPICAL STRUCTURE PROFILE.
B09-66 - CL BRG. -CL BRG. SPAN = 260'-0"
B09-60 - CL BRG. -CL BRG. SPAN = 292'-6"
B09-59 - CL BRG. -CL BRG. SPAN = 233'-0"
B09-58 - CL BRG. -CL BRG. SPAN = 229'-6"
B09-54 - CL BRG. -CL BRG. SPAN = 224'-6"

TYPICAL STRUCTURE PROFILE





EMERGENCY ALTERNATE ROUTE SIGNING KEY

ALTERNATE NORTH 53 M4-1 24" X 12"	ALTERNATE SOUTH 53 M4-1 24" X 12"
ALTERNATE NORTH 53 M3-1 24" X 12"	ALTERNATE SOUTH 53 M3-1 24" X 12"
ALTERNATE NORTH 53 M1-6 24" X 24"	ALTERNATE SOUTH 53 M1-6 24" X 24"

* M6-1L 21" X 21" M6-1R 21" X 21" M6-1 21" X 21" M6-1R 21" X 21"

* M6-1L 21" X 21" M6-1R 21" X 21" M6-1 21" X 21" M6-1R 21" X 21"

* M6-1L 21" X 21" M6-1R 21" X 21" M6-1 21" X 21" M6-1R 21" X 21"

IDENTIFIER KEY

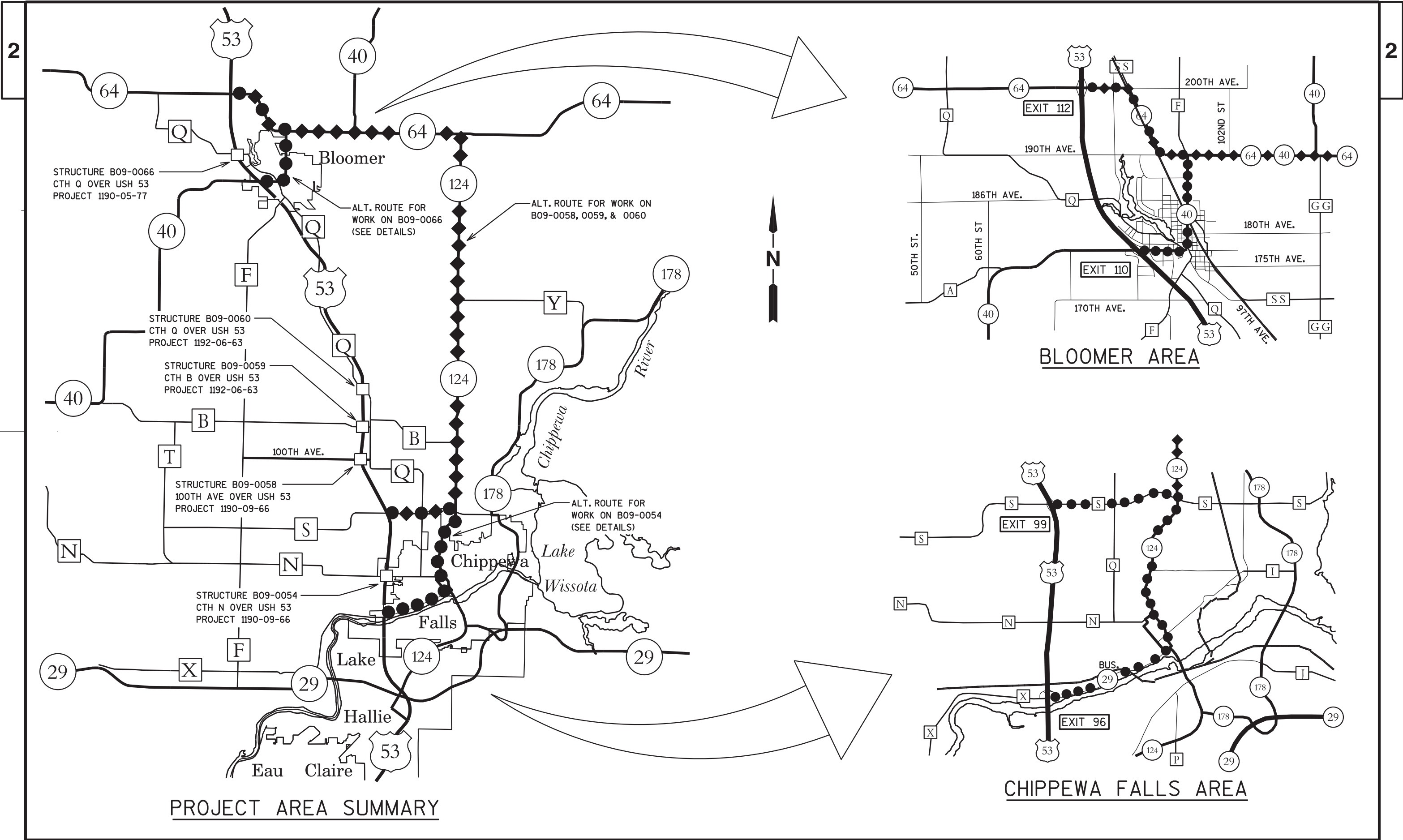
ALTERNATE NORTH 53	ALTERNATE SOUTH 53
1 RIGHT	4 RIGHT
2 AHEAD	5 AHEAD
3 LEFT	6 LEFT

ALTERNATE ROUTE SIGNING NOTES

1. EXACT LOC. OF ALL SIGNS TO BE DETERMINED BY FIELD ENGINEER.

2. DO NOT COVER EXIST ALTERNATE ROUTE SIGNS.

* AS NOTED AT EACH INTERSECTION.



PROJECT NO: 1190-05-77	HWY: USH 53	COUNTY: CHIPPEWA	EMERGENCY ALTERNATE ROUTES	SHEET	E
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GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

① CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FT IN FRONT OF DRUMS.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL - ADVANCED SIGNING

MIRROR FOR OPPOSITE DIRECTION LANES
ITEM 643.0100 INCLUSIVE UNLESS NOTED

FOR A LANE CLOSURE IN PLACE LESS THAN SEVEN (7) CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

IF LANE CLOSURE IS MORE THAN 1 MILE, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1/4 MILE ACROSS THE CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

EXAMPLE IS USH 53 EB. EQUIVALENT TRAFFIC CONTROL FOR USH 53 WB REQUIRED, AS NEEDED.

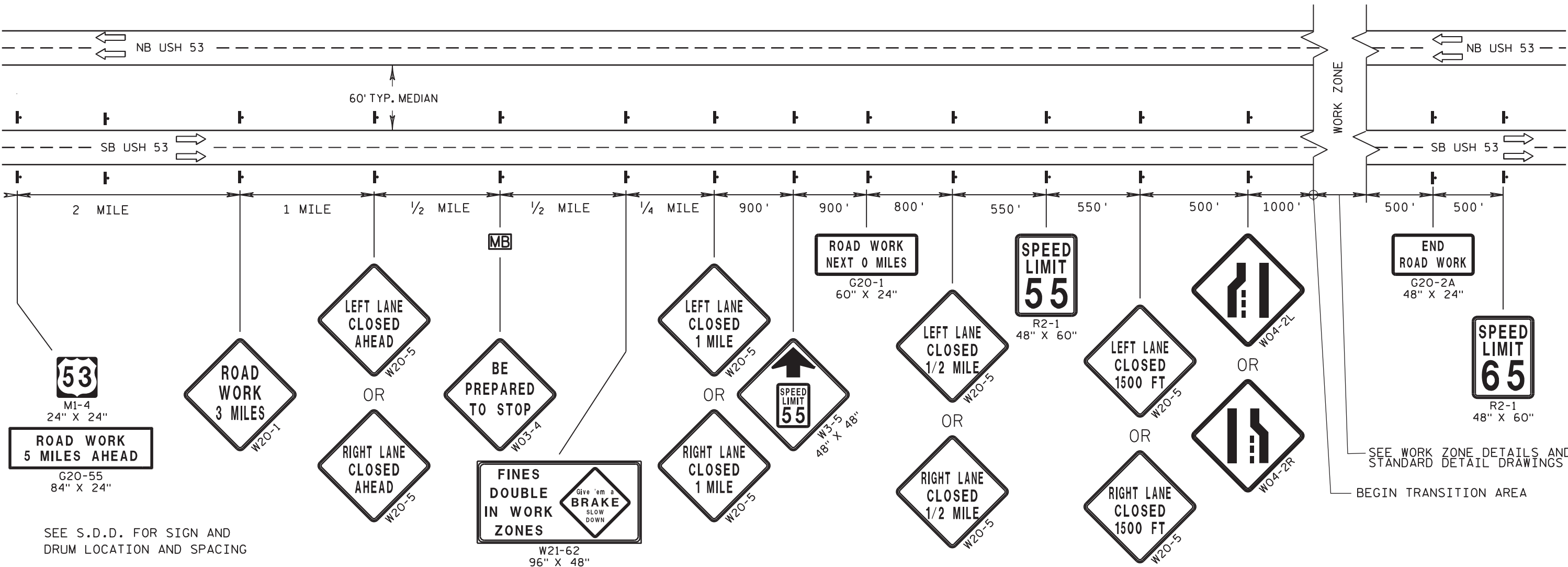
THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE, REVERSE FOR CLOSING LEFT LANE.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF EXIT OR ENTRANCE RAMP TO ALLOW FOR ADEQUATE BUFFER SPACE.

THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

LEGEND

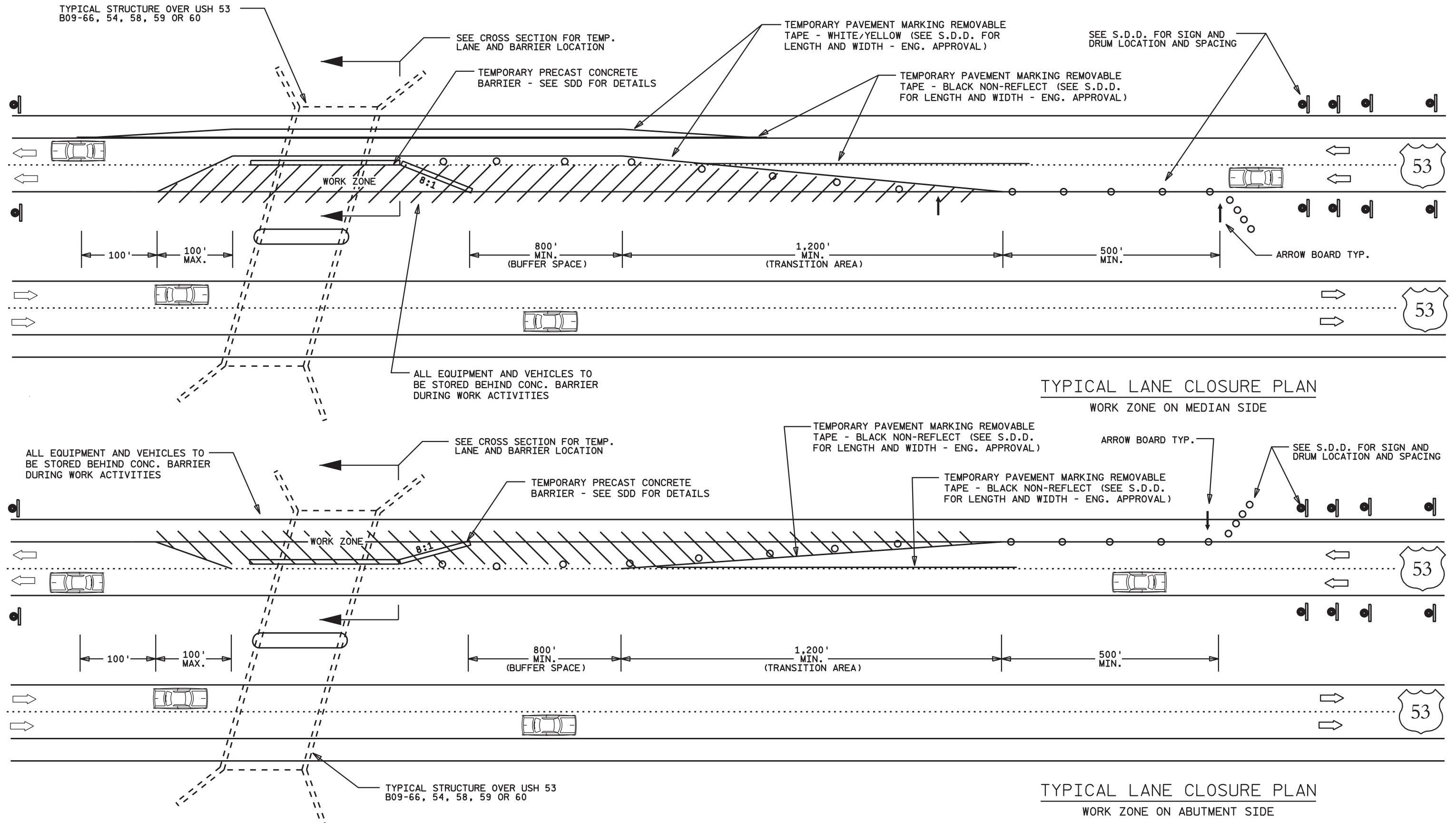
- POST WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- ITEM 643.1050 PORTABLE CHANGEABLE MESSAGE
- REPEAT AT 1 MI INTERVALS WITHIN LANE CLOSURE
- FLAG, 16" x 16", RED



TRAFFIC CONTROL - WORK ZONE DETAILS

LANE CLOSURE - WORK ZONE PLAN
ITEM 643.0100 INCLUSIVE UNLESS NOTED

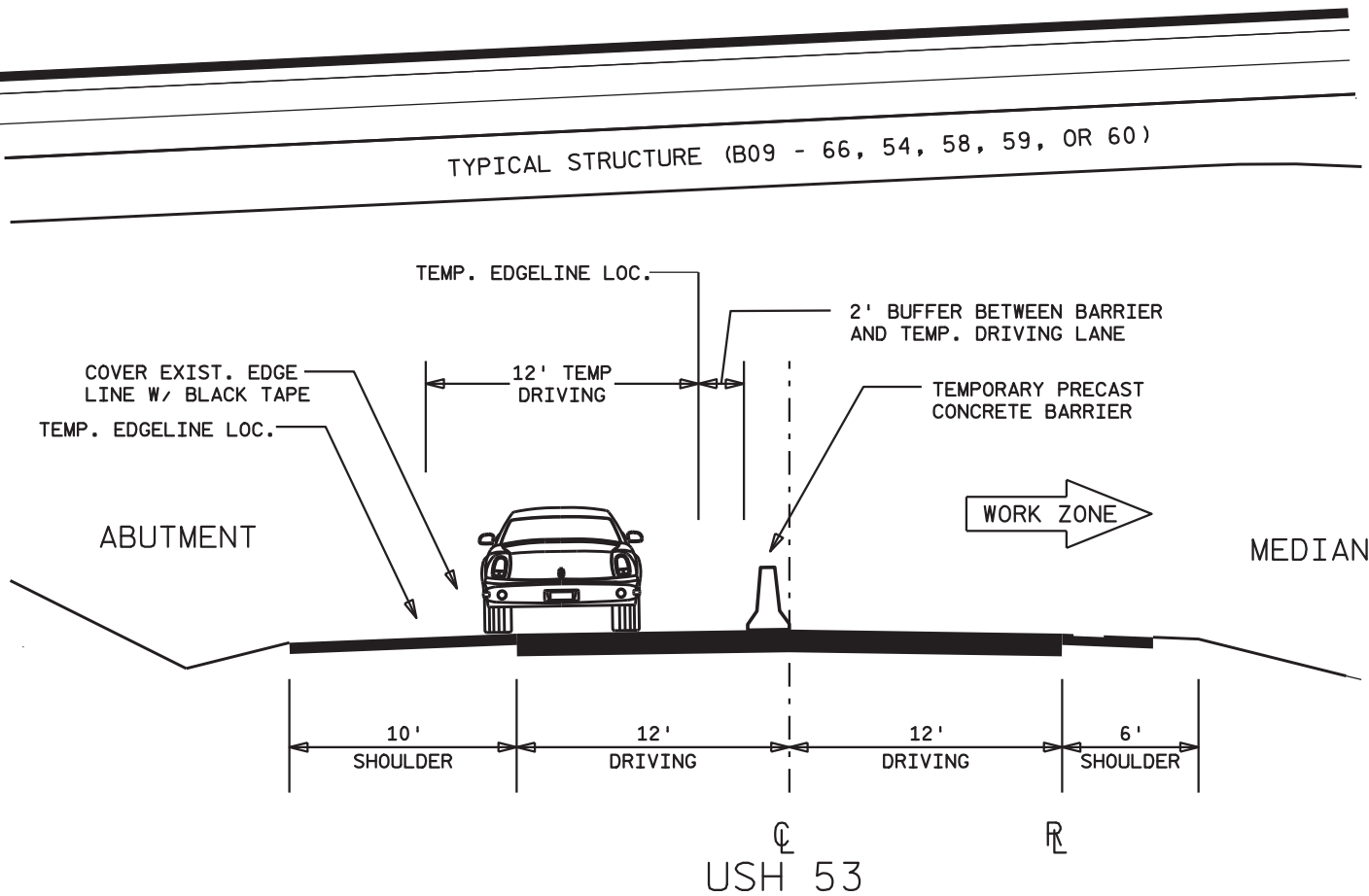
PLAN NOTES: WORK ZONE PLANS SHOWN FOR LANE CLOSURES
OF ONE TRAFFIC DIRECTION ONLY. REVERSE AND FLIP DETAILS
FOR OPPOSITE DIRECTIONS OF TRAVEL.



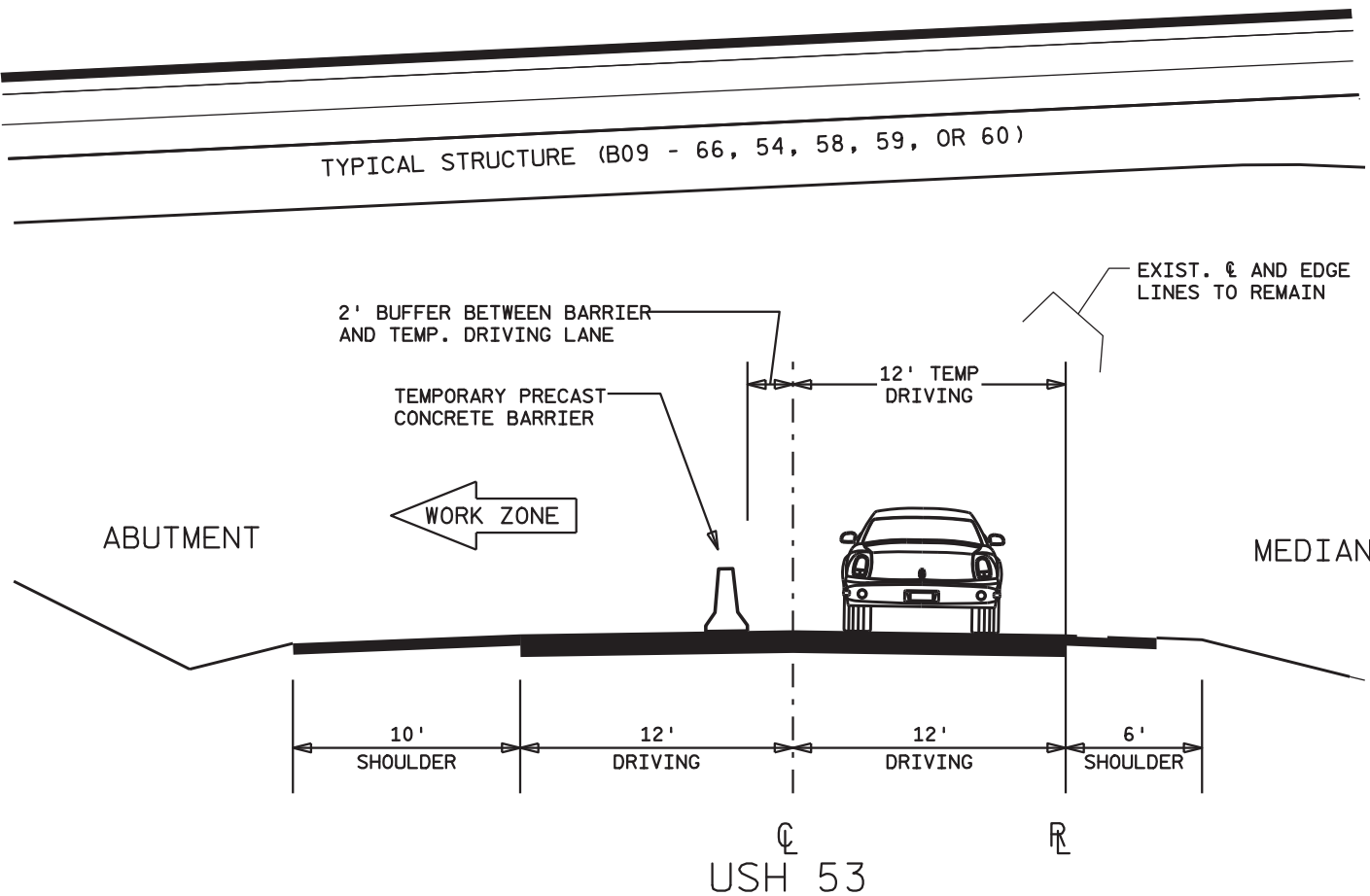
TRAFFIC CONTROL - WORK ZONE DETAILS

LANE CLOSURE - BARRIER LOCATION DETAIL
ITEM 643.0100 INCLUSIVE UNLESS NOTED

DETAIL NOTES: CROSS SECTIONS SHOWN FOR LANE CLOSURES OF ONE TRAFFIC DIRECTION ONLY. REVERSE AND FLIP DETAILS FOR OPPOSITE DIRECTIONS OF TRAVEL.



CROSS SECTION AT BARRIER LOCATION
WORK ZONE ON MEDIAN SIDE



CROSS SECTION AT BARRIER LOCATION
WORK ZONE ON ABUTMENT SIDE

WEEKEND CLOSURE AND REMOVAL NOTES:

- 1) ONE LANE IN EITHER DIRECTION MAY BE CLOSED.
- 2) DURING THE MONTHS OF JULY & AUGUST, BOTH LANES OF SB USH 53 SHALL BE OPENED TO TRAFFIC FOR EVERY WEEKEND PERIOD FROM 9:00 PM ON SATURDAY UNTIL 9:00 PM ON SUNDAY.
- 3) ALL WORK RELATED EQUIPMENT AND TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY AND SHOULDERS DURING EVERY WEEKEND PERIOD. ALL WORK RELATED EQUIPMENT ITEMS INCLUDING, BUT NOT LIMITED TO, VEHICLES, EQUIPMENT, AND WASTE BARRELS SHALL BE REMOVED FROM THE ROADWAY AND SHOULDERS FOR EVERY WEEKEND PERIOD. ALL WORK RELATED TRAFFIC CONTROL ITEMS, INCLUDING BUT NOT LIMITED TO, PRE-CAST BARRIERS, SIGNS, BARRELS, AND TEMPORARY PAVEMENT MARKING SHALL BE REMOVED FROM THE ROADWAY AND SHOULDERS FOR EVERY WEEKEND PERIOD.
- 4) STORAGE OF WORK RELATED AND TRAFFIC CONTROL ITEMS DURING THIS WEEKEND PERIOD MAY BE WITHIN THE ROADWAY R.O.W. A MINIMUM OF 40 FT FROM THE EDGE OF ROADWAY - ENGINEER APPROVAL REQ.
- 5) A WEEKEND STORAGE AREA MUST BE WITHIN THE GENERAL VICINITY OF THE PROJECT SITE AND MUST BE APPROVED BY THE PROJECT ENGINEER.

DATE 04NOV14		E S T I M A T E O F Q U A N T I T I E S					
LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1190-05-77 QUANTITY	1190-09-66 QUANTITY	1192-06-63 QUANTITY
0010	213. 0100	FINISHING ROADWAY (PROJECT) 01. 1190-05-77	EACH	1. 000	1. 000		
0020	213. 0100	FINISHING ROADWAY (PROJECT) 02. 1190-09-66	EACH	1. 000		1. 000	
0030	213. 0100	FINISHING ROADWAY (PROJECT) 03. 1192-06-63	EACH	1. 000			1. 000
0040	517. 1800. S	STRUCTURE REPAINTING RECYCLED ABRASIVE (STRUCTURE) 01. B-09-0066	LS	1. 000	1. 000		
0050	517. 1800. S	STRUCTURE REPAINTING RECYCLED ABRASIVE (STRUCTURE) 02. B-09-0054	LS	1. 000		1. 000	
0060	517. 1800. S	STRUCTURE REPAINTING RECYCLED ABRASIVE (STRUCTURE) 03. B-09-0058	LS	1. 000		1. 000	
0070	517. 1800. S	STRUCTURE REPAINTING RECYCLED ABRASIVE (STRUCTURE) 04. B-09-0059	LS	1. 000			1. 000
0080	517. 1800. S	STRUCTURE REPAINTING RECYCLED ABRASIVE (STRUCTURE) 05. B-09-0060	LS	1. 000			1. 000
0090	517. 4500. S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STRUCTURE) 01. B-09-0066	LS	1. 000	1. 000		
0100	517. 4500. S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STRUCTURE) 02. B-09-0054	LS	1. 000		1. 000	
0110	517. 4500. S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STRUCTURE) 03. B-09-0058	LS	1. 000		1. 000	
0120	517. 4500. S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STRUCTURE) 04. B-09-0059	LS	1. 000			1. 000
0130	517. 4500. S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STRUCTURE) 05. B-09-0060	LS	1. 000			1. 000
0140	517. 6001. S	PORTABLE DECONTAMINATION FACILITY	EACH	5. 000	1. 000	2. 000	2. 000
0150	603. 8000	CONCRETE BARRIER TEMPORARY PRECAST DELIVERED	LF	3, 000. 000	600. 000	1, 200. 000	1, 200. 000
0160	603. 8125	CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	LF	6, 000. 000	1, 200. 000	2, 400. 000	2, 400. 000
0170	618. 0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01. 1190-05-77	EACH	1. 000	1. 000		
0180	618. 0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 02. 1190-09-66	EACH	1. 000		1. 000	
0190	618. 0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 03. 1192-06-63	EACH	1. 000			1. 000
0200	619. 1000	MOBILIZATION	EACH	1. 000	0. 300	0. 350	0. 350
0210	642. 5001	FIELD OFFICE TYPE B	EACH	1. 000	1. 000		
0220	643. 0100	TRAFFIC CONTROL (PROJECT) 01. 1190-05-77	EACH	1. 000	1. 000		
0230	643. 0100	TRAFFIC CONTROL (PROJECT) 02. 1190-09-66	EACH	1. 000		1. 000	
0240	643. 0100	TRAFFIC CONTROL (PROJECT) 03. 1192-06-63	EACH	1. 000			1. 000
0250	643. 0300	TRAFFIC CONTROL DRUMS	DAY	11, 000. 000	2, 200. 000	4, 400. 000	4, 400. 000
0260	643. 0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	200. 000	40. 000	80. 000	80. 000
0270	643. 0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	11, 400. 000	2, 280. 000	4, 560. 000	4, 560. 000
0280	643. 0800	TRAFFIC CONTROL ARROW BOARDS	DAY	400. 000	80. 000	160. 000	160. 000
0290	643. 0900	TRAFFIC CONTROL SIGNS	DAY	3, 400. 000	680. 000	1, 360. 000	1, 360. 000
0300	643. 0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	20. 000	4. 000	8. 000	8. 000
0310	643. 1050	TRAFFIC CONTROL SIGNS PCMS	DAY	80. 000	16. 000	32. 000	32. 000
0320	649. 0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	LF	84, 000. 000	16, 800. 000	33, 600. 000	33, 600. 000
0330	SPV. 0045	SPECIAL 01. PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) CELLULAR COMMUNICATIONS	DAY	80. 000	16. 000	32. 000	32. 000

MISCELLANEOUS QUANTITIES
ALL CATAGORIES 0010 UNLESS SPECIFIED OTHERWISE

SURFACE AREA ESTIMATE

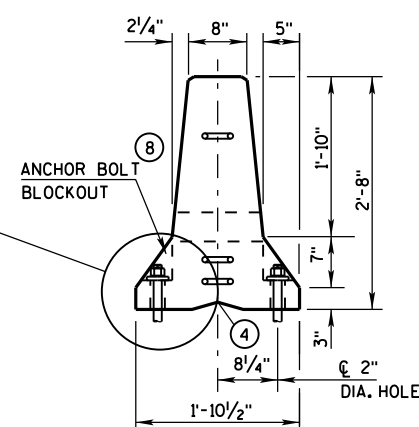
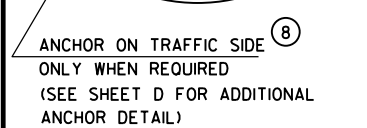
PROJECT	CATEGORY	STRUCTURE ID	STRUCTURAL STEEL (SF)	REMARKS
1190-05-77	0020	B-09-0066	21,300	CTH Q OVER USH 53
1190-09-66	0020	B-09-0054	15,600	CTH N OVER USH 53
1190-09-66	0030	B-09-0058	13,200	100TH AVENUE OVER USH 53
1192-06-63	0020	B-09-0059	19,900	CTH B OVER USH 53
1192-06-63	0030	B-09-0060	28,000	CTH Q OVER USH 53
(FOR INFORMATION PURPOSES ONLY)				

QUANTITY SUMMARY

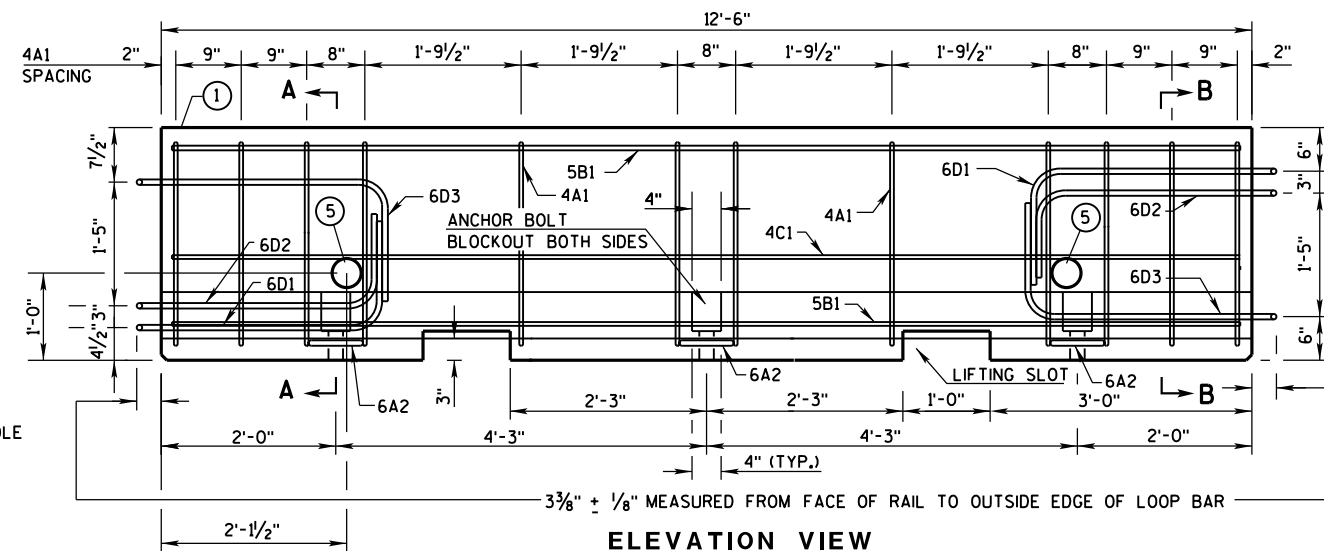
ITEM NO.	DESCRIPTION	PROJECT 1190-05-77	PROJECT 1190-09-66	PROJECT 1192-06-63	ITEM UNIT
		EST. QUANT	EST. QUANT	EST. QUANT	
603.8000	CONCRETE BARRIER TEMPORARY PRECAST DELIVERED	600	1,200	1,200	LF
603.8125	CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	1,200	2,400	2,400	LF
643.0300	TRAFFIC CONTROL DRUMS	2,200	4,400	4,400	DAYS
643.0420	TRAFFIC CONTROL BARRICADES TYPE III	40	80	80	DAYS
643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	2,280	4,560	4,560	DAYS
643.0800	TRAFFIC CONTROL ARROW BOARDS	80	160	160	DAYS
643.0900	TRAFFIC CONTROL SIGNS	680	1,360	1,360	DAYS
643.0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	4	8	8	EA
643.1050	TRAFFIC CONTROL SIGNS PORTABLE CHANGEABLE MESSAGE (SEE DETAIL - MB)	16	32	32	DAY
649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	16,800	33,600	33,600	LF
SPV.0045	SPECIAL PORTABLE CHANGEABLE MESSAGE CELLULAR COMMUNICATIONS	16	32	32	DAY

Standard Detail Drawing List

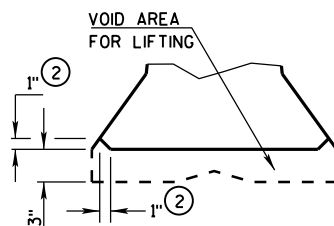
14B07-14A	CONCRETE BARRIER TEMPORARY PRECAST, 12' -6"
14B07-14B	CONCRETE BARRIER TEMPORARY PRECAST, 12' -6"
14B07-14C	CONCRETE BARRIER TEMPORARY PRECAST, 12' -6"
14B07-14D	CONCRETE BARRIER TEMPORARY PRECAST, 12' -6"
14B07-14E	CONCRETE BARRIER TEMPORARY PRECAST, 12' -6"
14B07-14F	CONCRETE BARRIER TEMPORARY PRECAST, 12' -6"
14B07-14G	CONCRETE BARRIER TEMPORARY PRECAST, 12' -6"
14B07-14H	CONCRETE BARRIER TEMPORARY PRECAST, 12' -6"
15C08-16A	PAVEMENT MARKING (MAINLINE)
15D27-02	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH



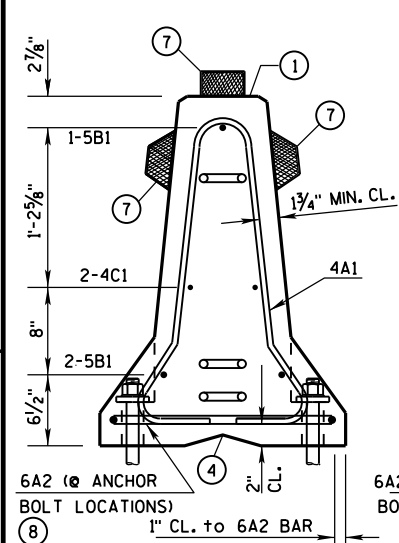
END VIEW



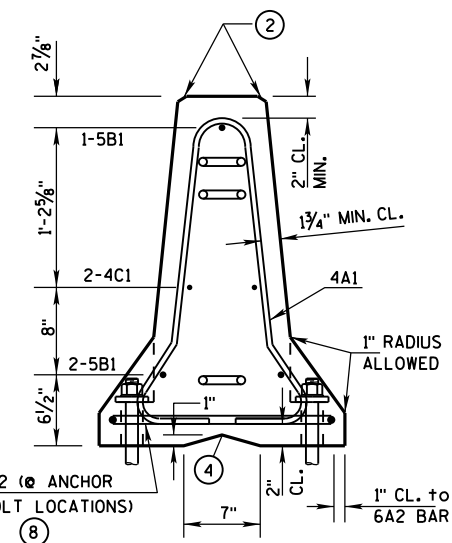
ELEVATION VIEW



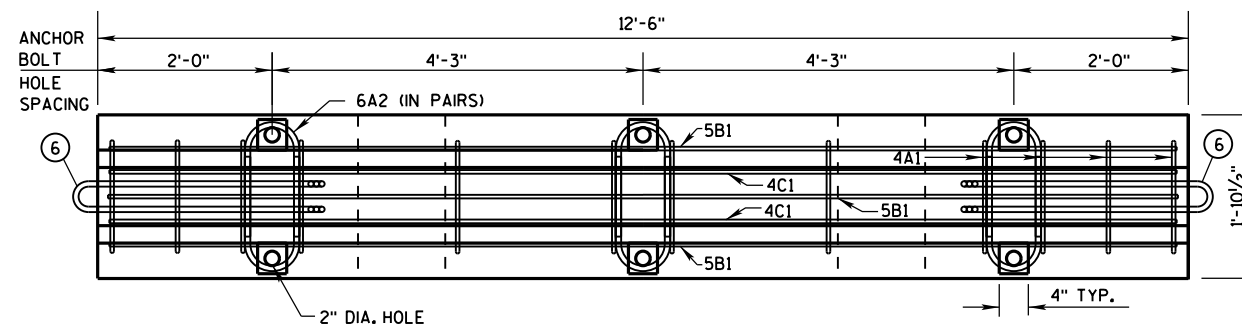
DETAIL "B"
LIFTING SLOT DETAIL



SECTION A-A
(STIRRUP PLACEMENT)

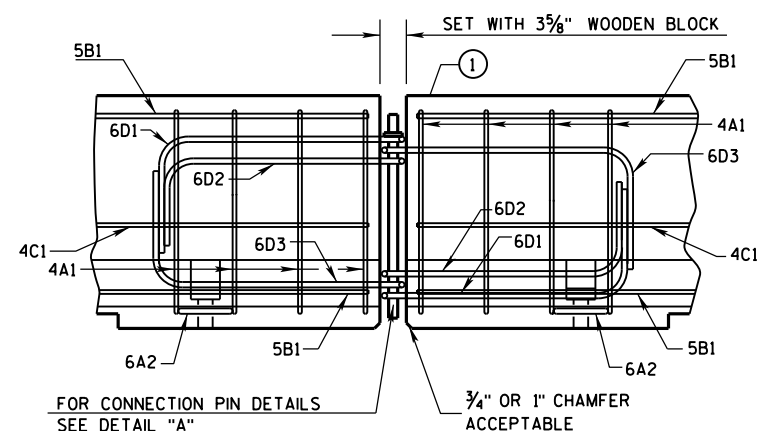


SECTION B-B
(STIRRUP PLACEMENT)

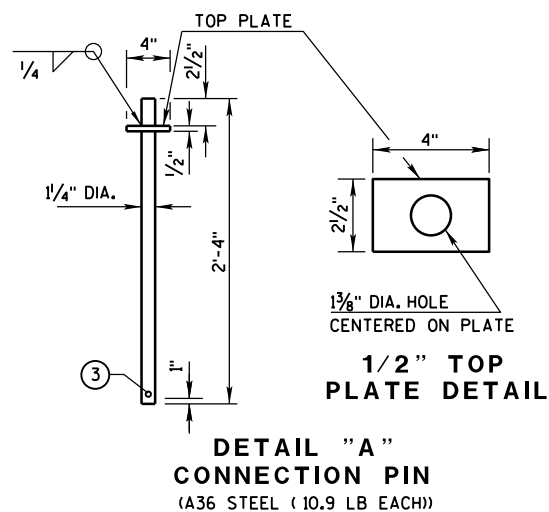


PLAN VIEW

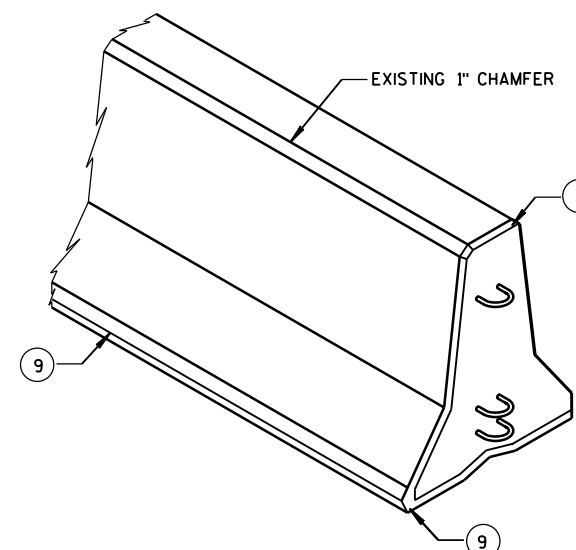
DETAILS OF BARRIER SECTION



DETAILS OF BARRIER CONNECTION



DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-14(d) THRU 14B7-14(h).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE $\frac{3}{4}$ " SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3- $\frac{1}{2}$ " PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN $\frac{1}{8}$ " OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR EPOXY ANCHORS PER MANUFACTURER'S RECOMMENDATIONS.
PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

- ① MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
 - a. TYPE: WICBTP
 - b. MANUFACTURER
 - c. DATE MANUFACTURED (MONTH AND YEAR)
- ② 1" CHAMFER TO PREVENT SPALLING.
- ③ A $\frac{3}{8}$ " HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..
- ④ "V" NOTCH IS OPTIONAL.
- ⑤ THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).
- ⑥ NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.
- ⑦ USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURER'S INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.
- ⑧ SEE SHEET D FOR ANCHORING CRITERIA.
- ⑨ 1" CHAMFER OPTIONAL.

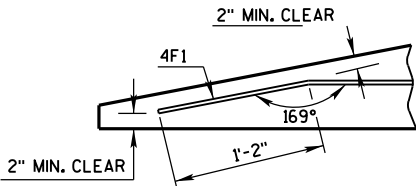
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

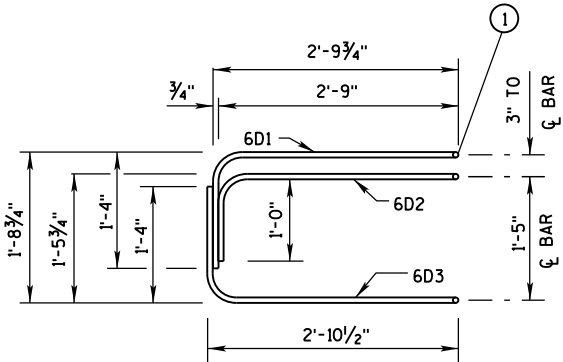
BARRIER TAPER SECTION
BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

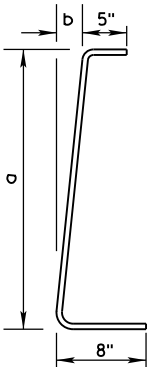
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



DETAIL "C"
BENT BAR DETAIL



ELEVATION
LOOP BAR ASSEMBLY



4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

BAR	a	b
V1	10"	1"
V2	1'-1"	1 1/4"
V3	1'-5"	1 5/8"
V4	1'-8"	1 7/8"
V5	2'-0 1/2"	2 3/8"
V6	2'-3"	2 3/4"

TAPER BARRIER SECTION

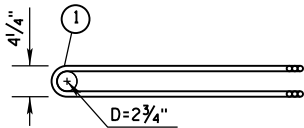
GENERAL NOTES

① NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

BARRIER SECTION
BILL OF MATERIALS

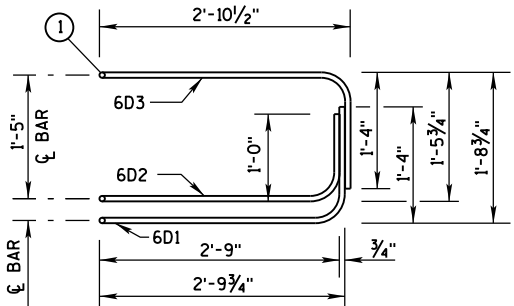
(PER 12'-6" BARRIER SECTION)

BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"

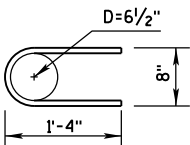


PLAN VIEW
LOOP BAR ASSEMBLY

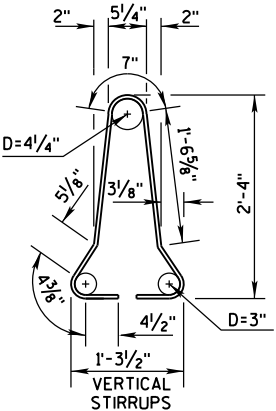
(MARKED END SHOWN, INVERT FOR OTHER END)



ELEVATION VIEW



6A2

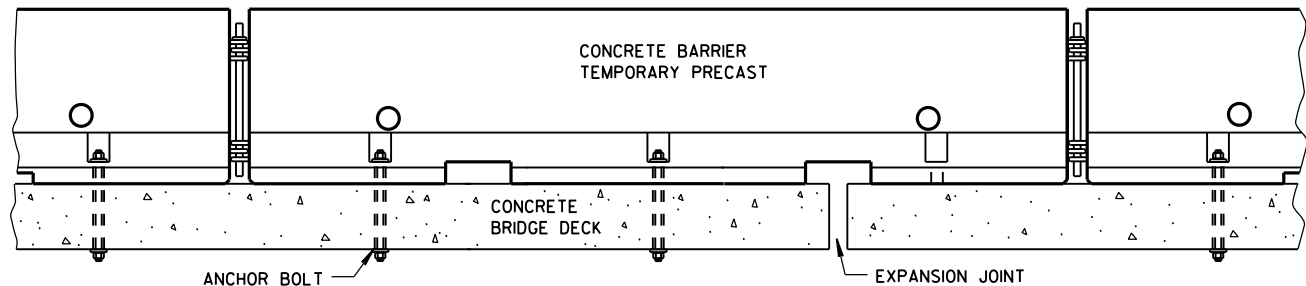
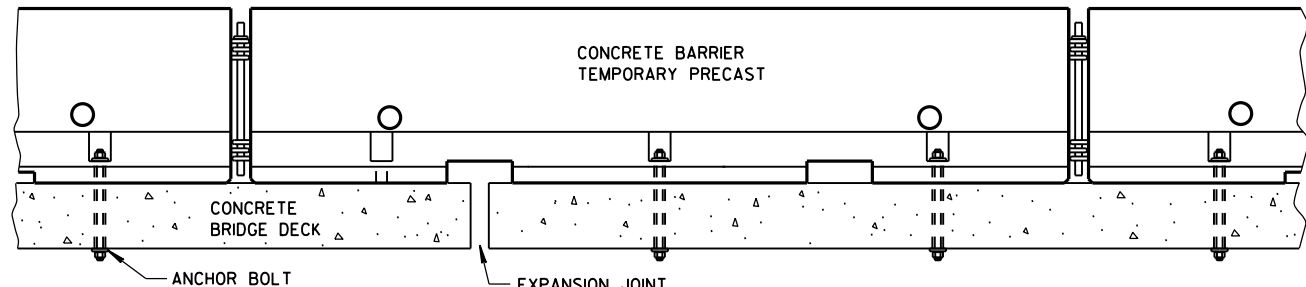


4A1

BARRIER SECTION

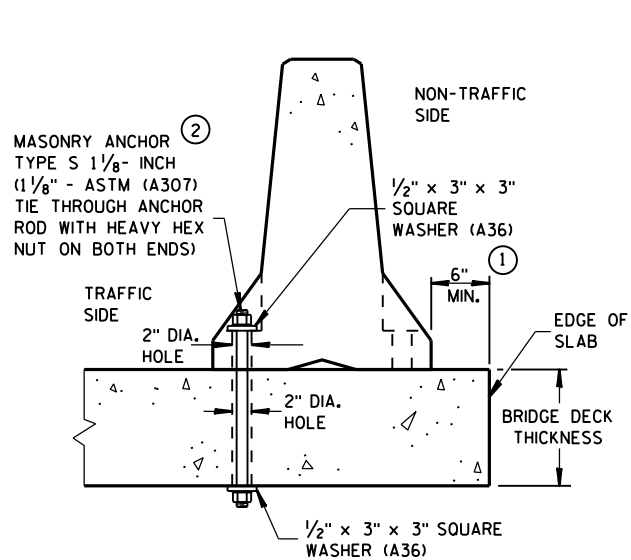
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



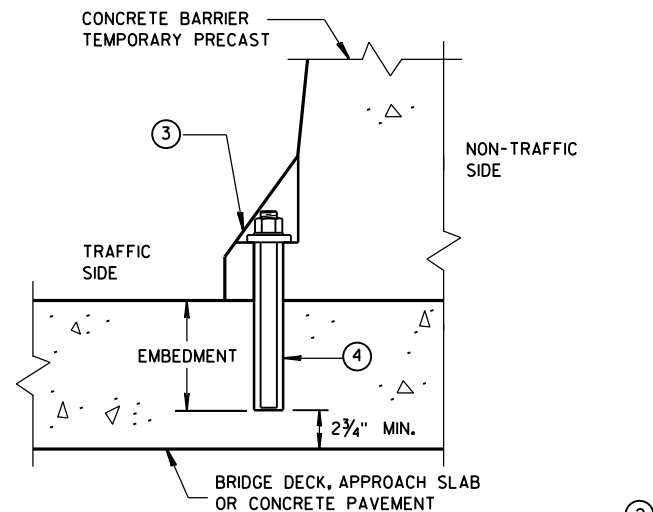
TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)



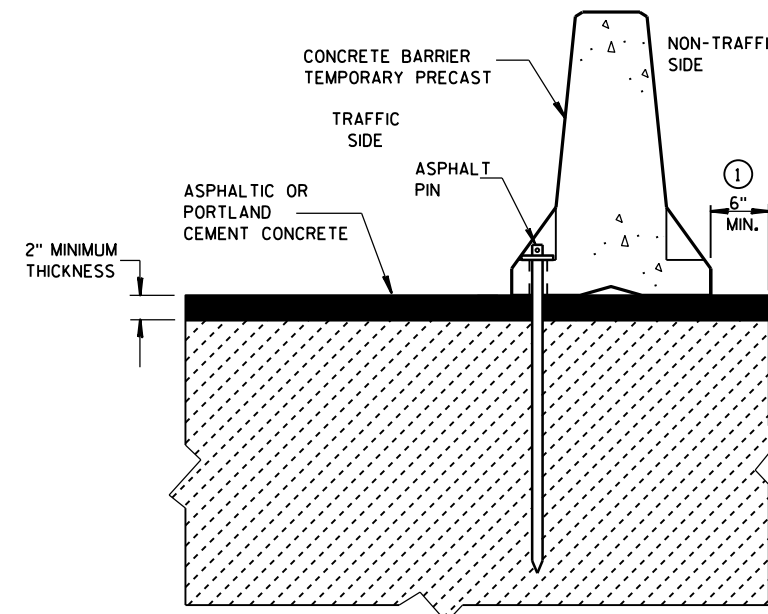
THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOT USE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)



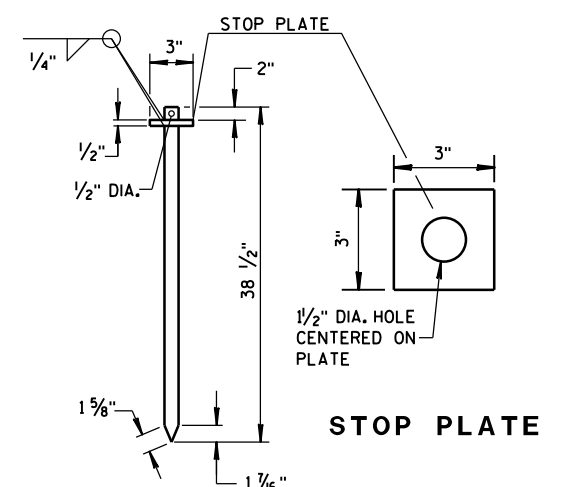
REMOVABLE ADHESIVE BONDED ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

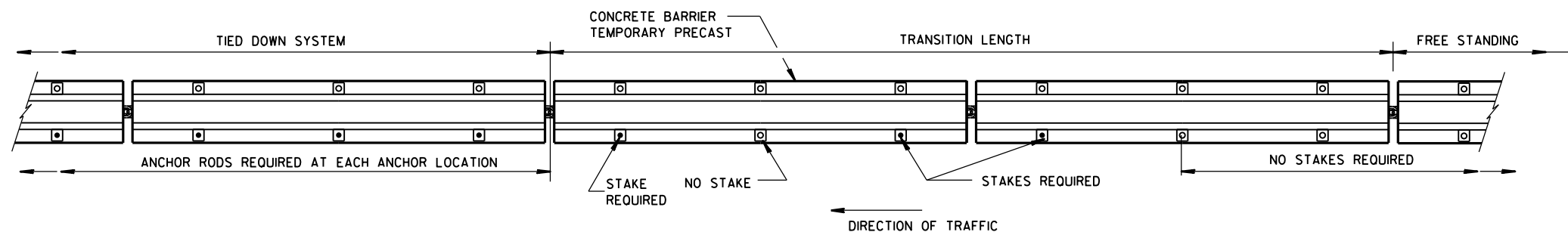


STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



ASPHALT PIN (ASTM A36 STEEL)



PLAN VIEW FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

GENERAL NOTES

- CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF:
THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER, OR

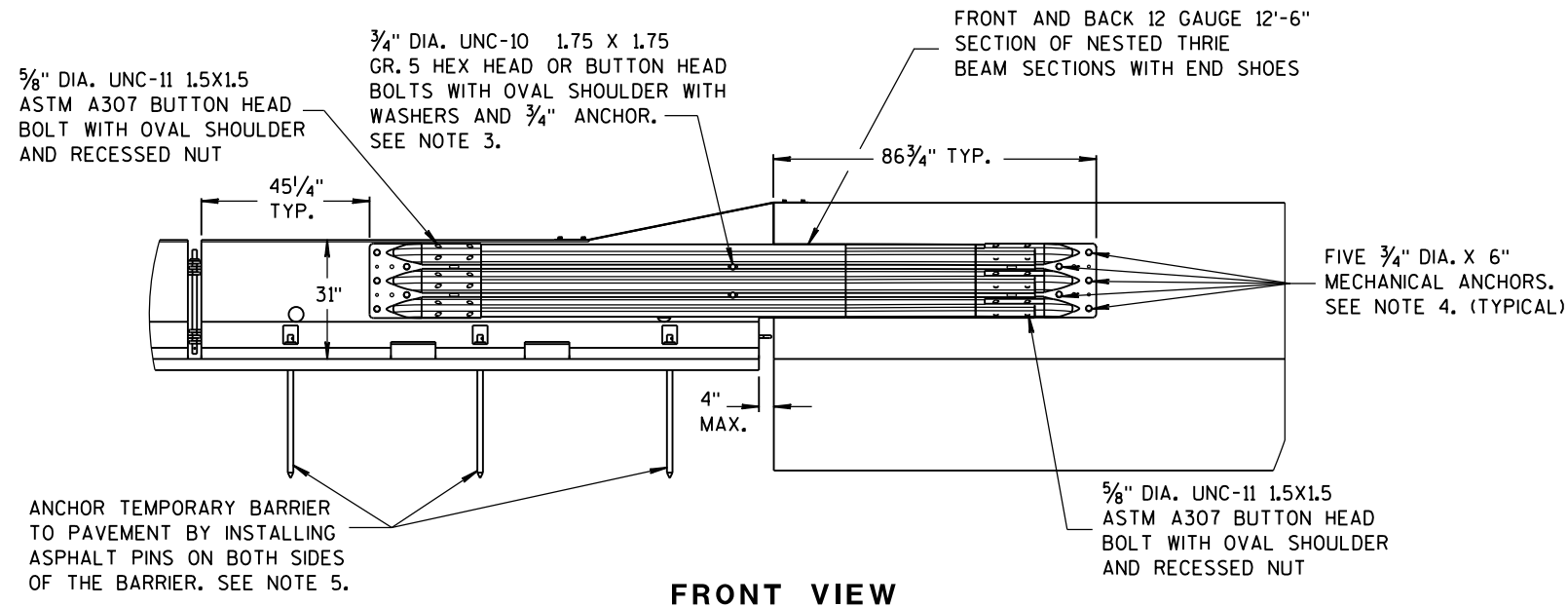
THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.
- ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED (EPOXY) ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1 1/8-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

UPON REMOVAL OR RELOCATION OF THE BARRIER UNITS, REMOVE ALL ANCHOR BOLTS AND COMPLETELY FILL IN THE REMAINING HOLES IN CONCRETE BRIDGE DECKS, CONCRETE APPROACH SLABS AND CONCRETE PAVEMENTS THAT ARE TO REMAIN, WITH A NON-SHRINK COMMERCIAL GROUT OR EPOXY MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.
- 1 1/8" DIAMETER A307 THREADED ROD, 1/2" x 3" x 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.
- ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5/4" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



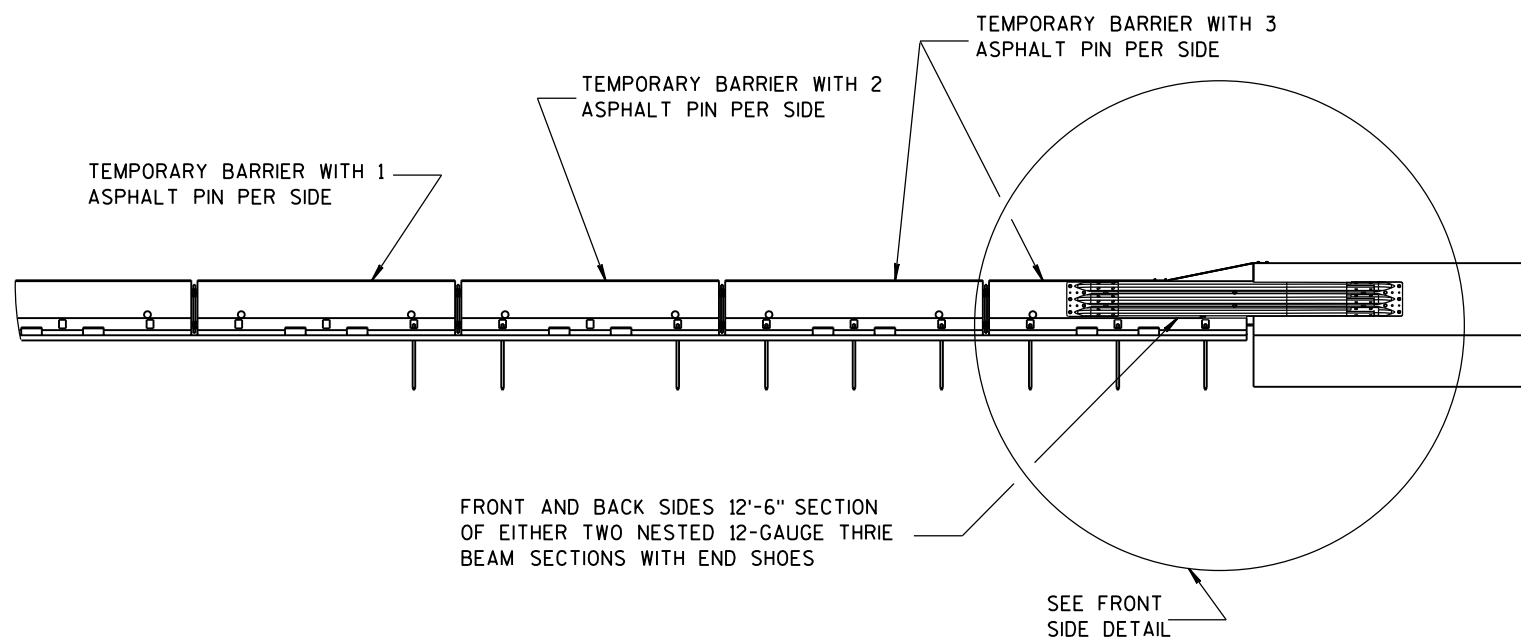
FRONT VIEW

NOTES

NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS.

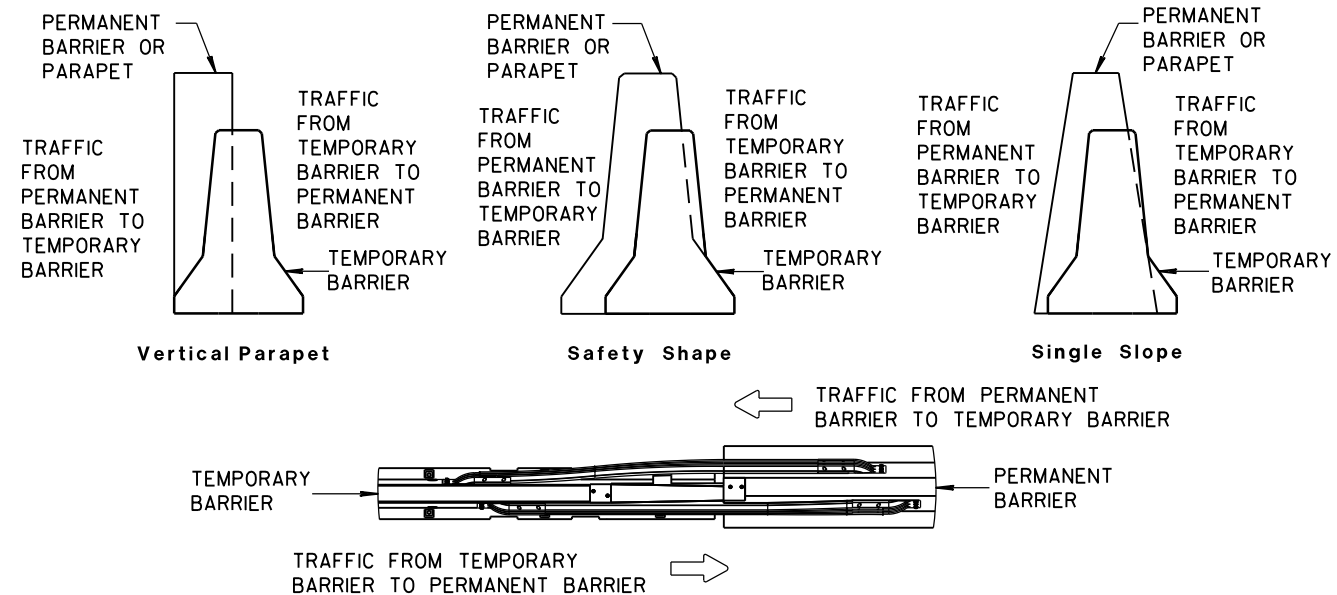
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.

4. MINIMUM MECHANICAL OR EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.

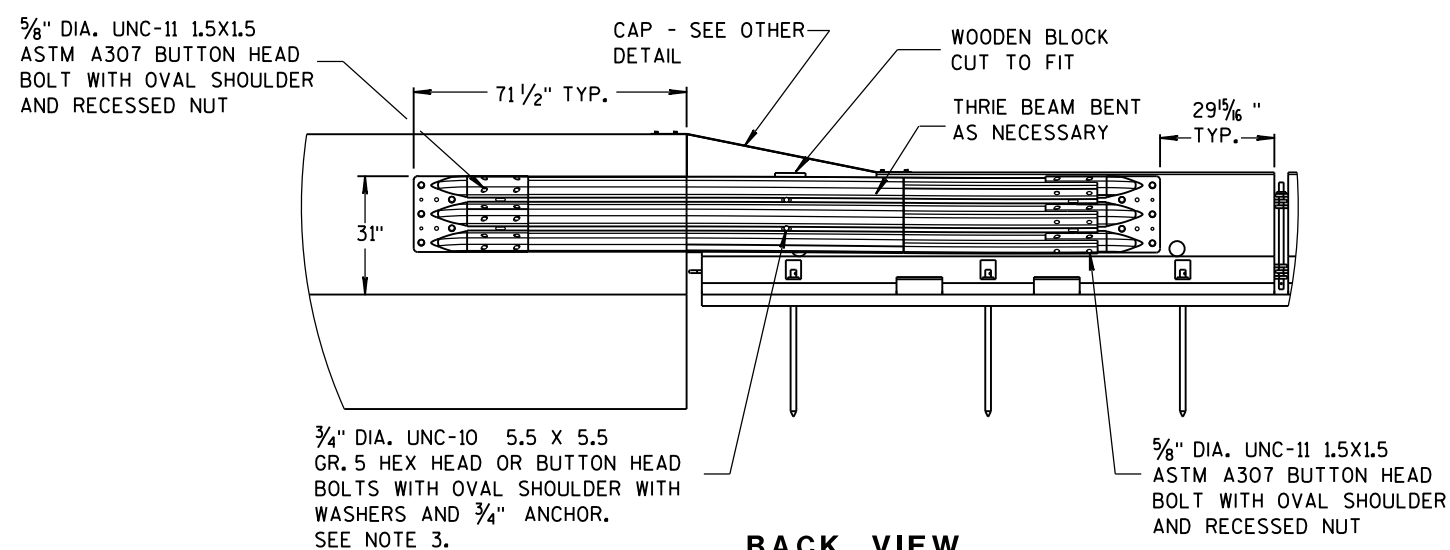


FRONT VIEW

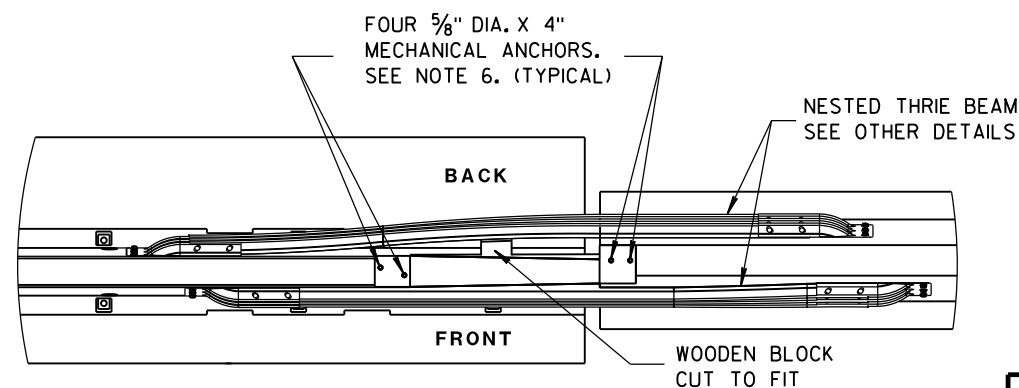
BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM



TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM



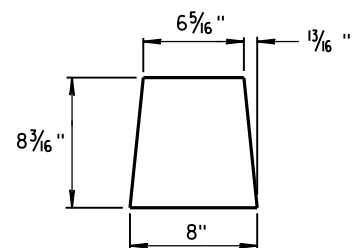
BACK VIEW



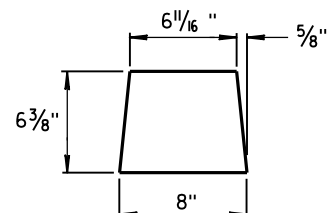
PLAN VIEW

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

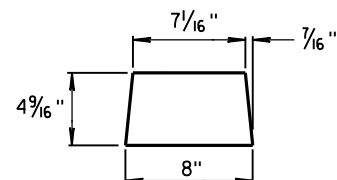
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



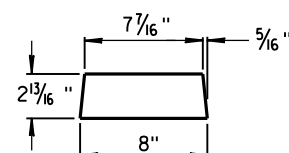
GUSSET 1



GUSSET 2

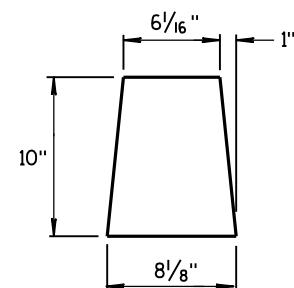


GUSSET 3

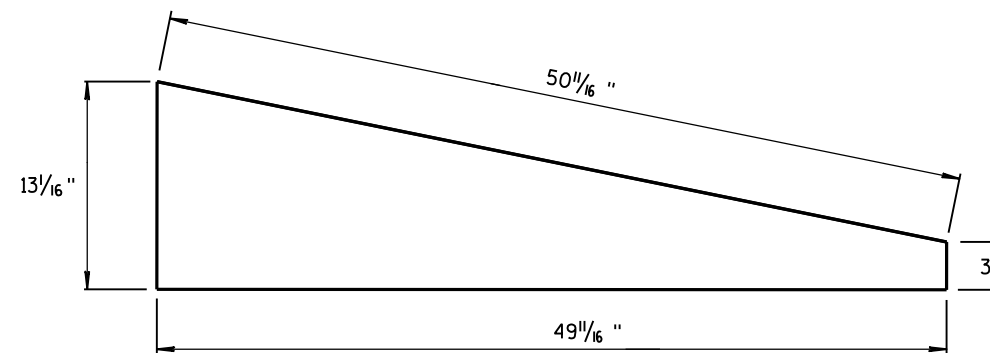


GUSSET 4

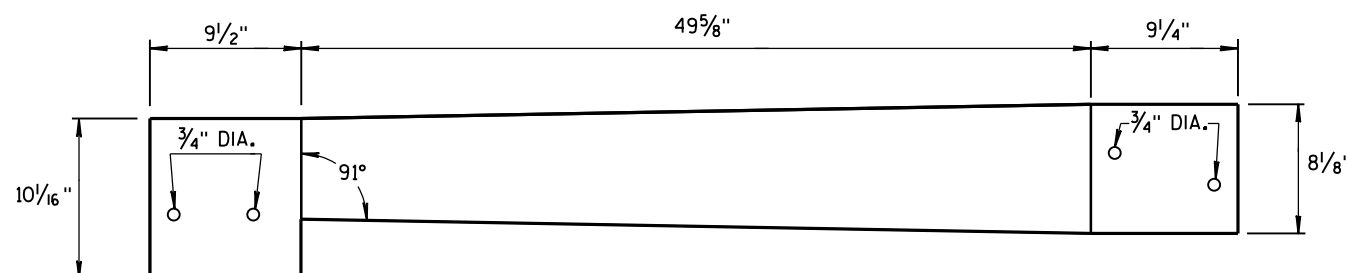
GUSSETS



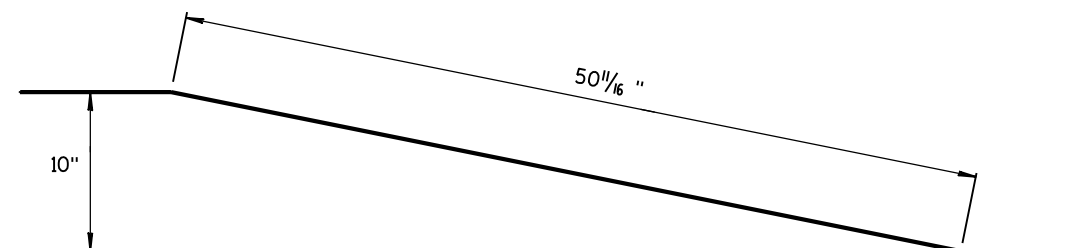
END PLATE



SIDE PLATE

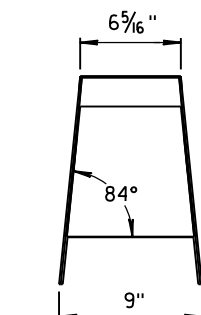
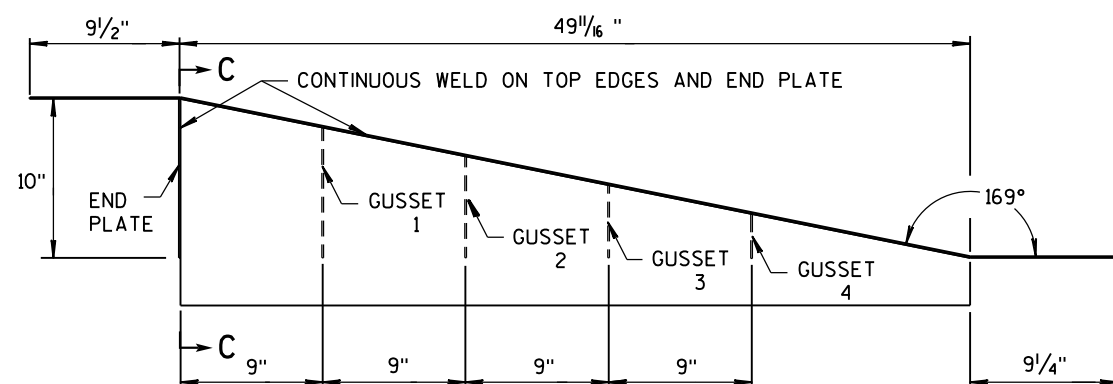
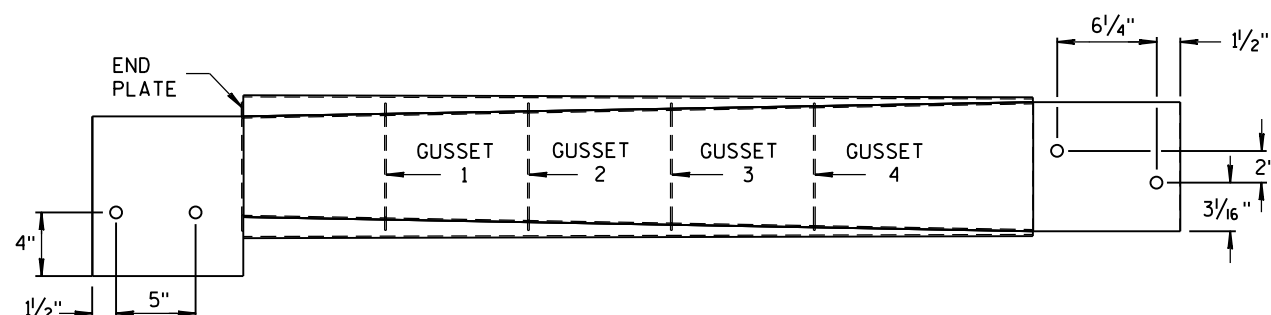


TOP PLATE



**SIDE, TOP AND END PLATES FOR CAP
FROM TEMPORARY CONCRETE BARRIER
TO 42" PERMANENT CONCRETE BARRIER**

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.



SECTION C-C

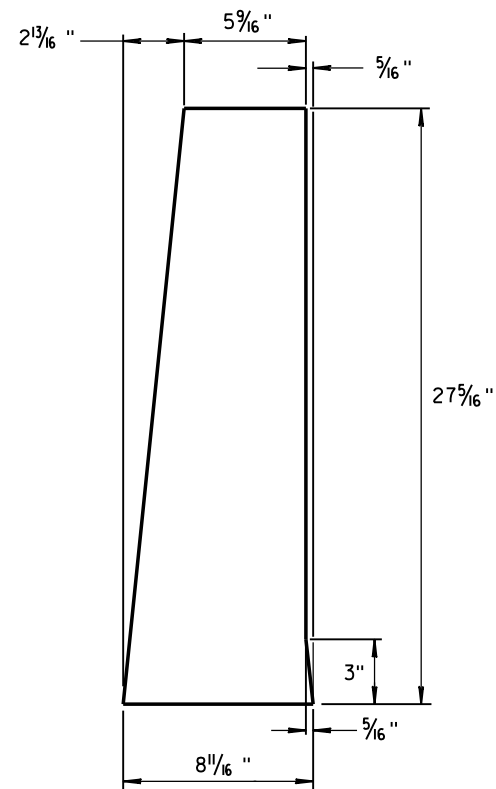
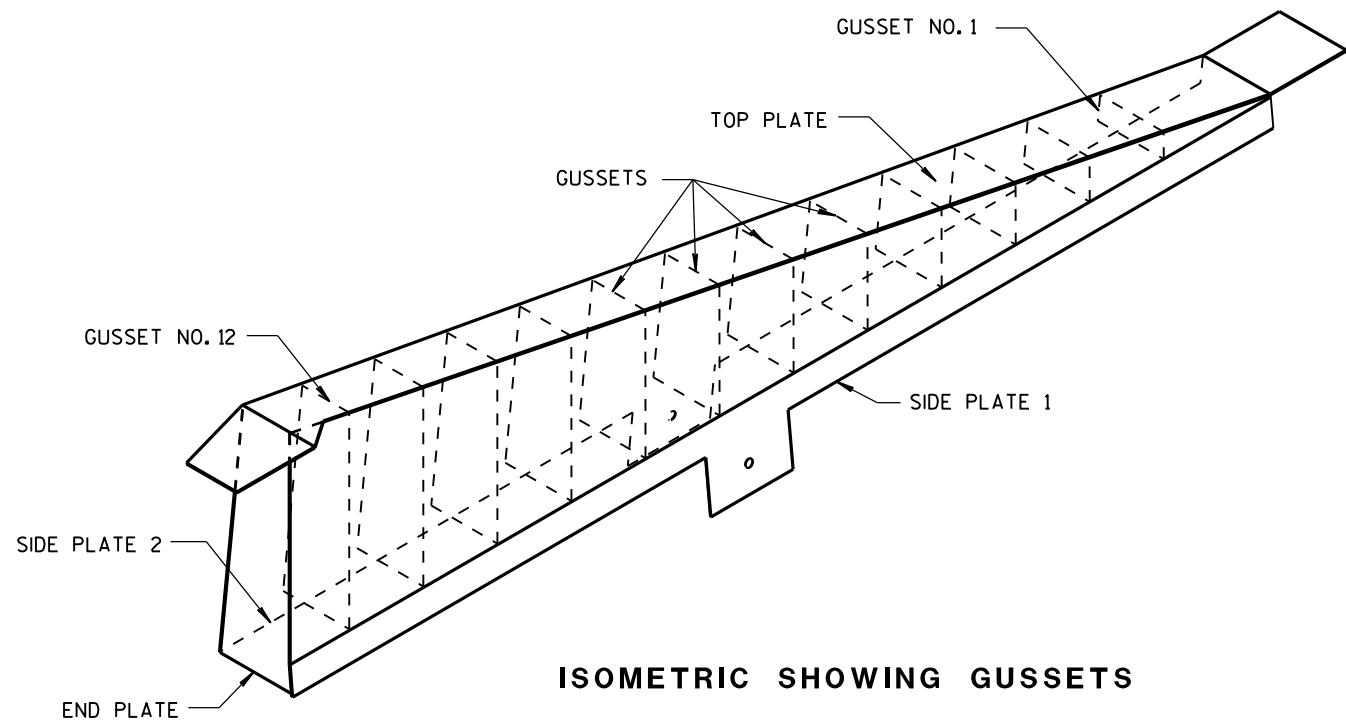
NOTES

1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

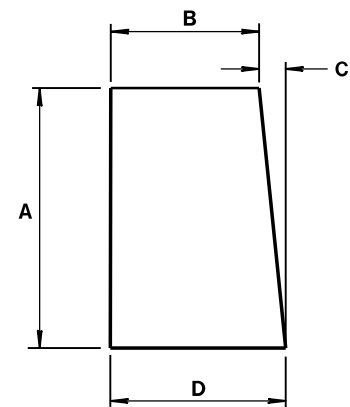
**CAP DETAILS FOR TEMPORARY CONCRETE
BARRIER TO 42" PERMANENT CONCRETE BARRIER**

**CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



END PLATE
1/8" STEEL PLATE

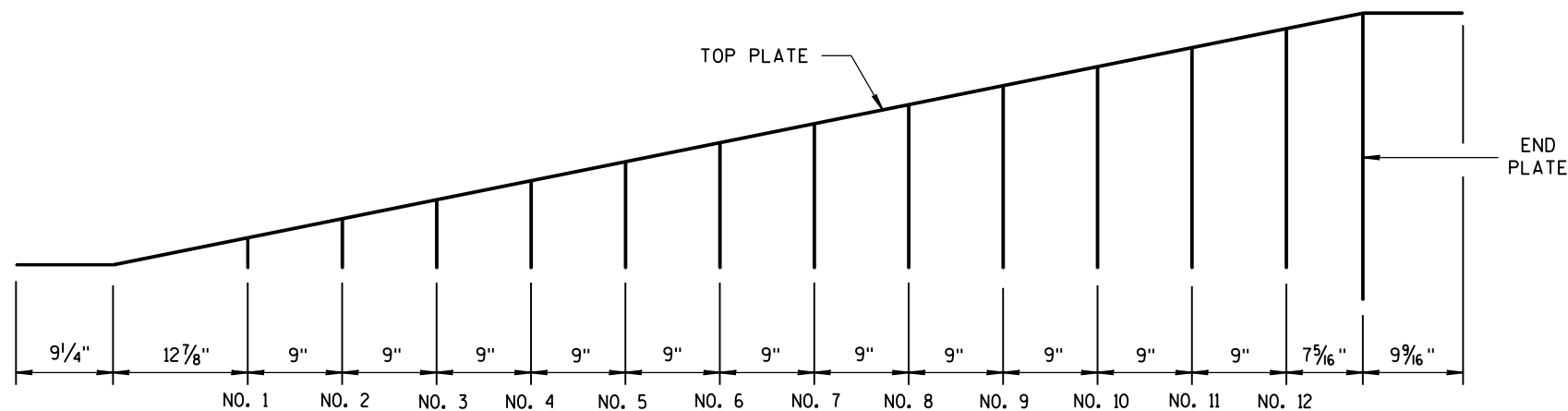


GUSSETS 1 - 12
ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 1/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	1 1/16 "	8 1/16 "
4	8 5/16"	7 3/16"	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 5/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16"	6 1/16"	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16"	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16"	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

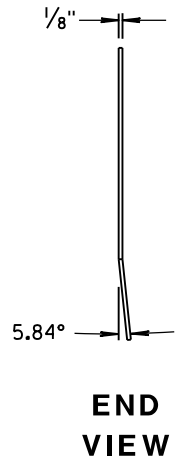
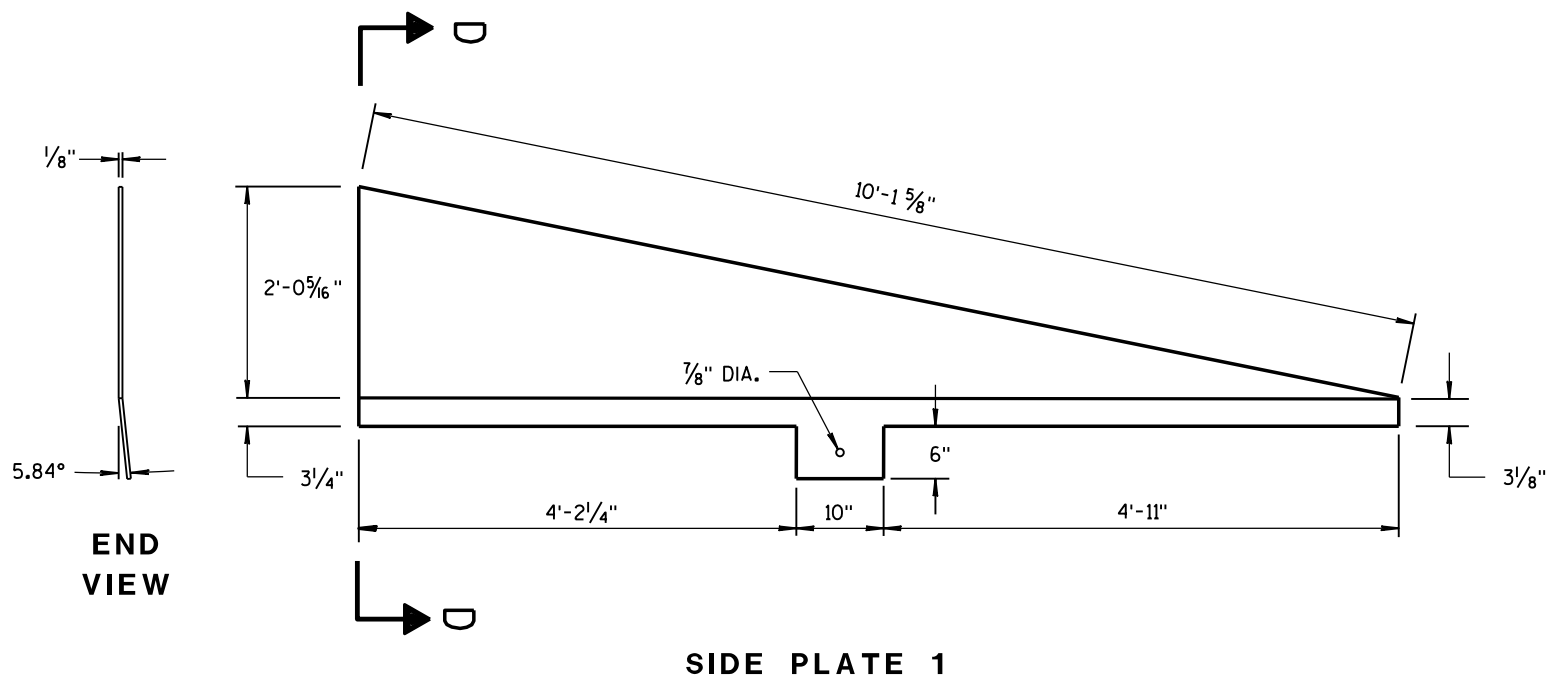
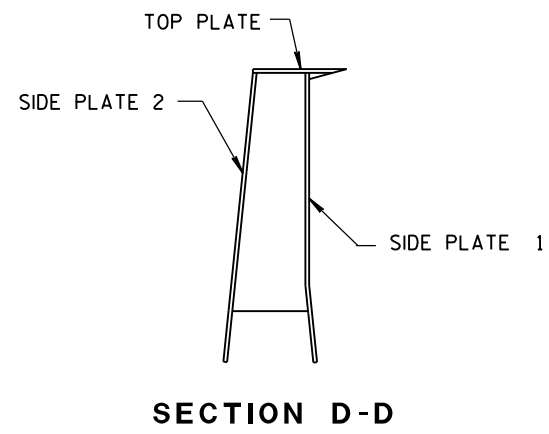
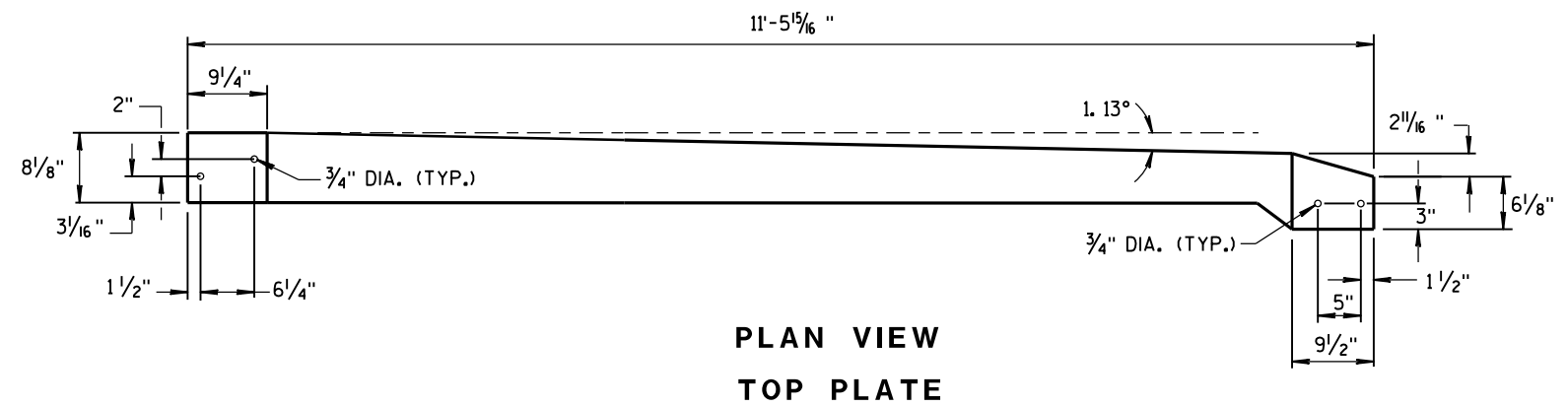
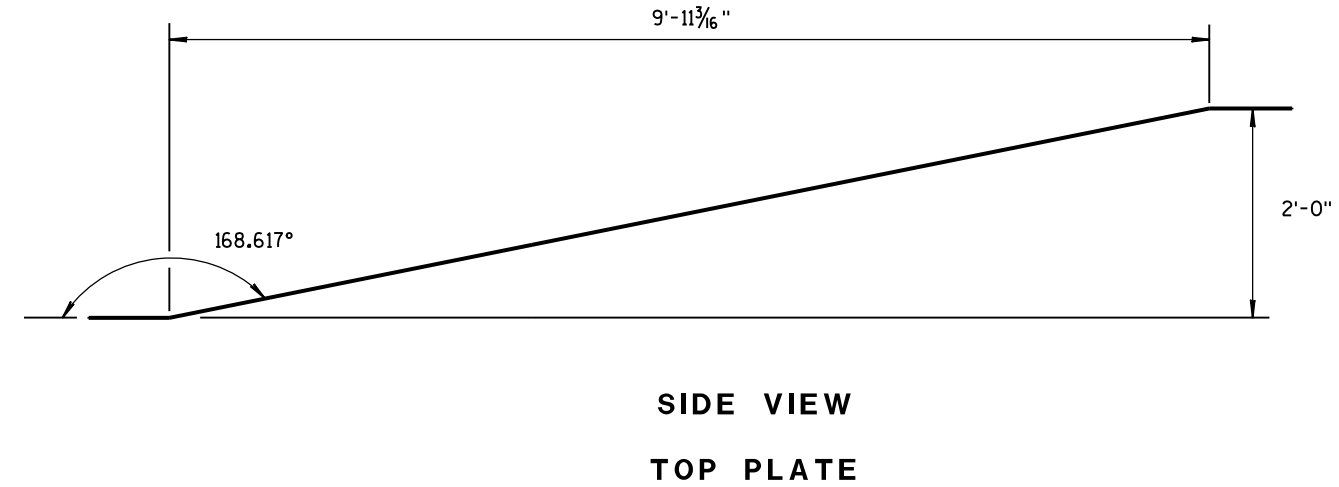
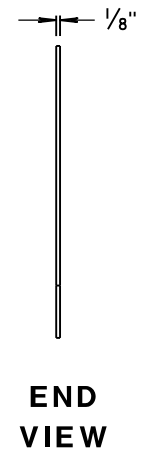
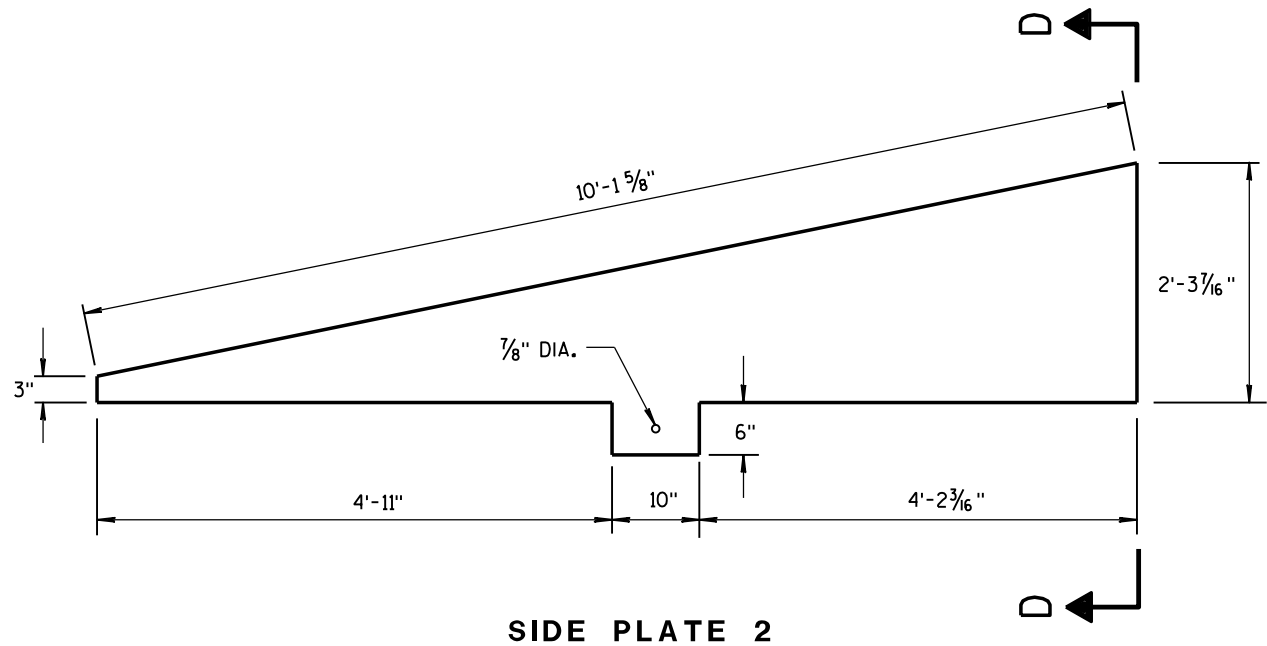
GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

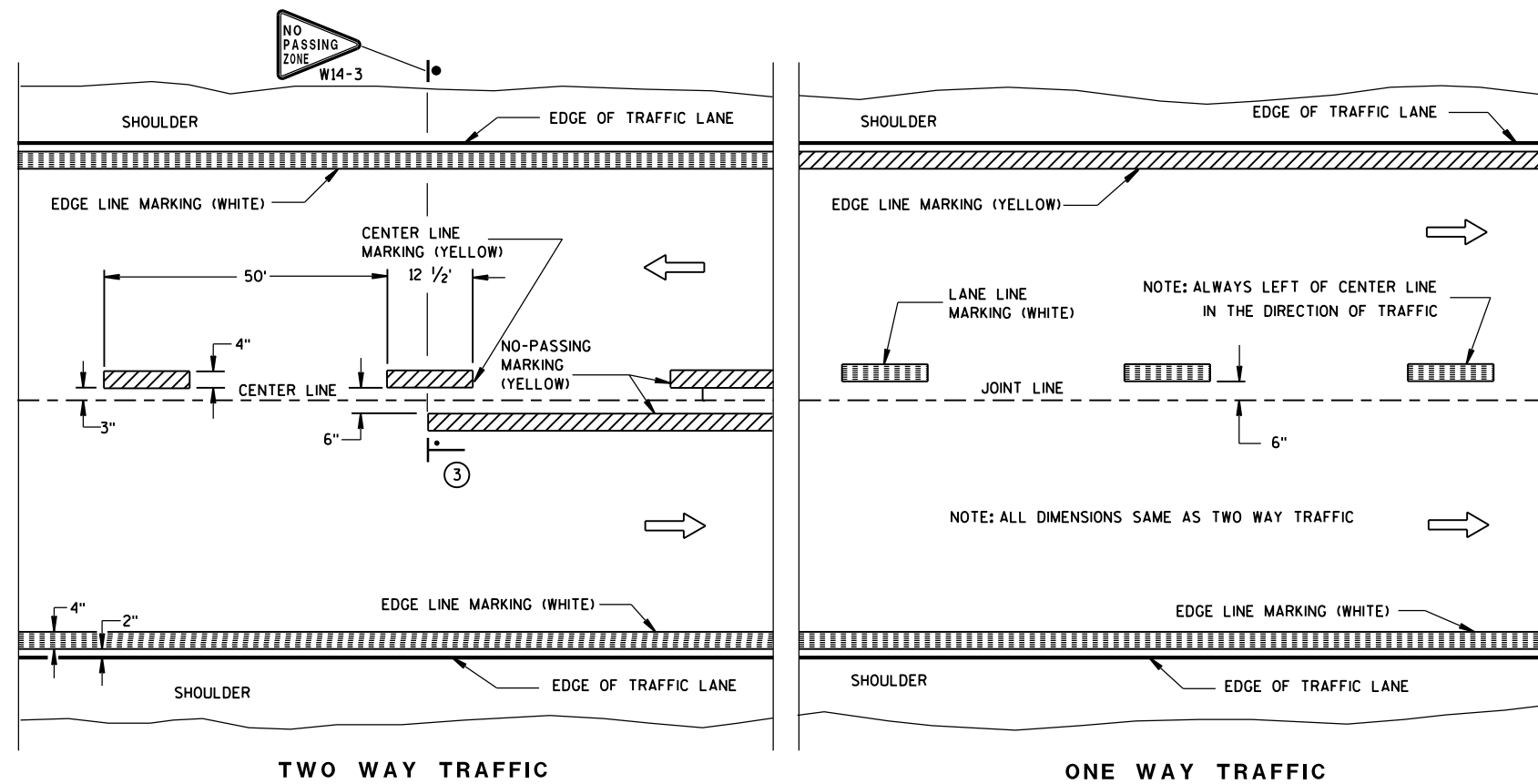
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

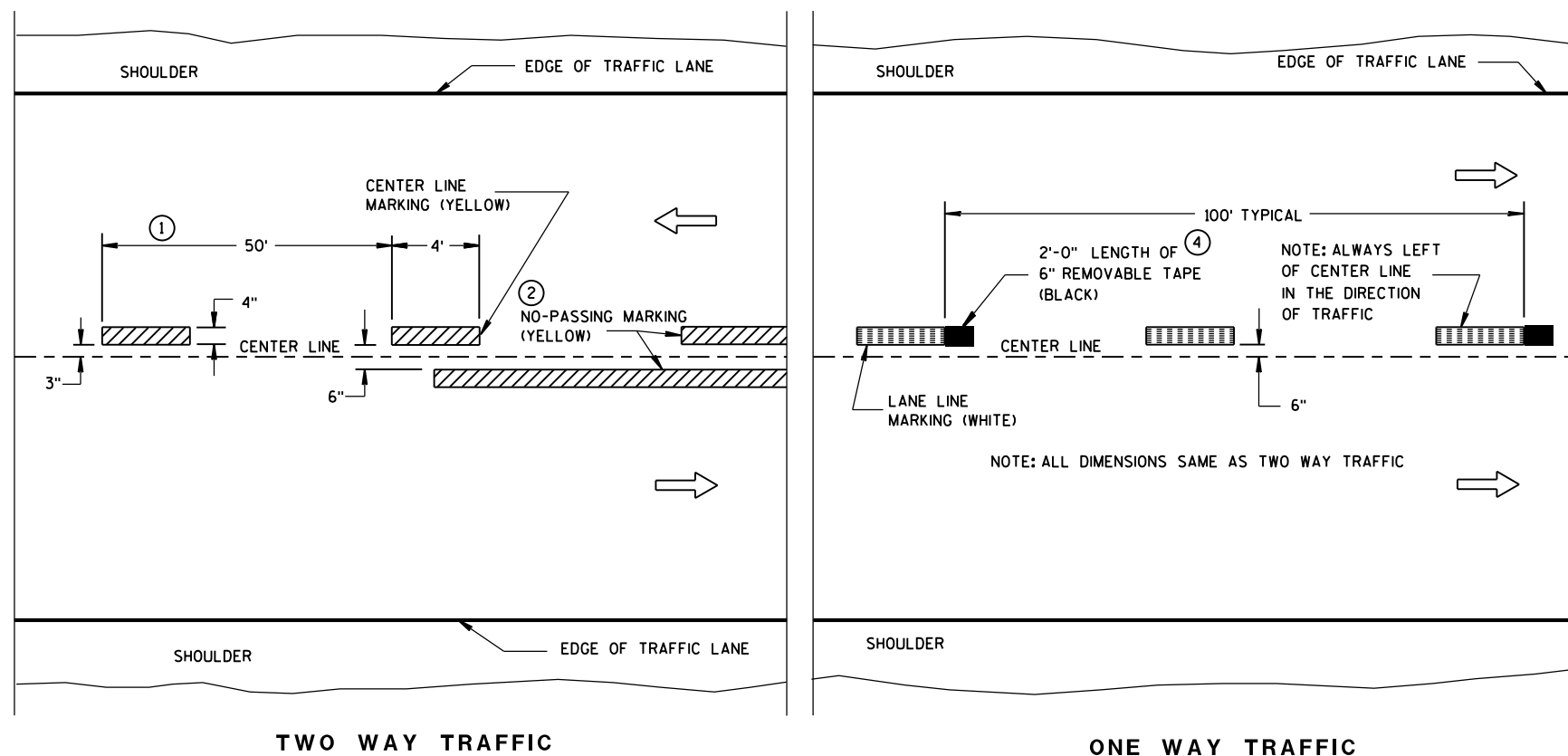


CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2014 DATE	/S/ Jerry H. Zogg ROADWAY STANDARD DEVELOPMENT ENGINEER
FHWA	



PERMANENT PAVEMENT MARKING




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

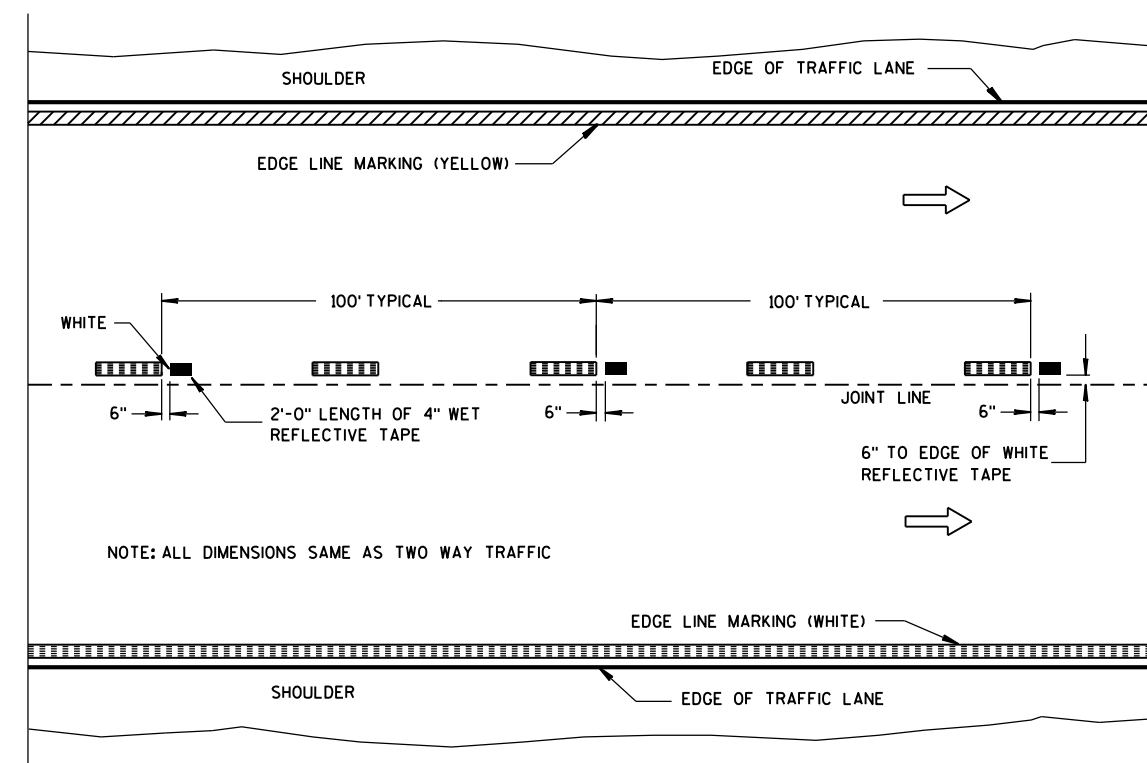
GENERAL NOTES

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

- ① HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- ② NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
- ③ NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
- ④ CONCRETE ONLY.



NOTE

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

-  "T" MARKING
-  POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5-13-2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER
FHWA

LEGEND

- TRAFFIC CONTROL DRUM
- ⦿ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ⚡➡ FLASHING ARROW BOARD
- ▨ WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

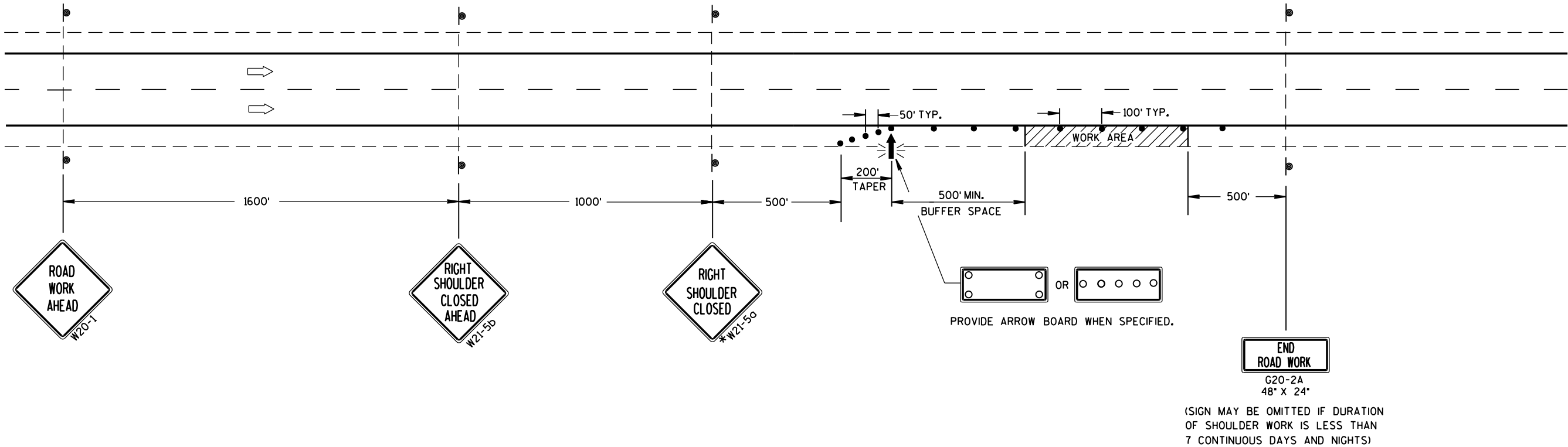
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.




TRAFFIC CONTROL
SHOULDER CLOSURE ON DIVIDED
ROADWAY, SPEEDS GREATER
THAN 40 MPH

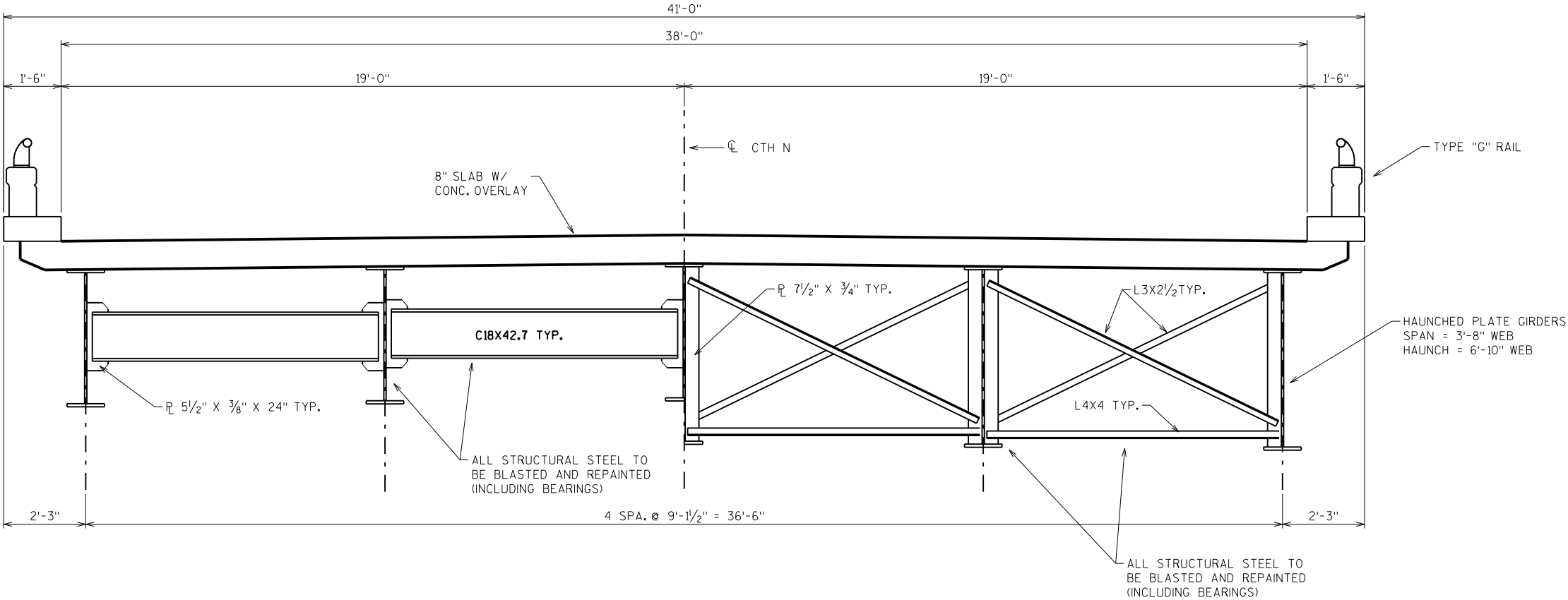
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 /S/ Travis Feltz
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



NO.	DATE	REVISION	BY
 Plans Prepared By WISDOT NORTHWEST REGION			
ACCEPTED	<i>William C. Duchen</i> ^{KAR} CHIEF STRUCTURES DESIGN ENGINEER		11/03/14 DATE
STRUCTURE B-09-54			
CTH N OVER USH 53			
COUNTY	CHIPPEWA	TOWN/CITY/VILLAGE	WHEATON
DESIGN SPEC.		REHABILITATION	N/A
DESIGNED BY	----- DESIGN CK'D.	DRAWN BY	PLANS CK'D.
		WJK	-----
STRUCTURE REPAINT		SHEET 1 OF 3	

ITEM NUMBER	BID ITEM DESCRIPTION	UNITS	TOTAL
517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE, B09-0054	LS	1
517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS, B09-0054	LS	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EA	1



IN SPAN

AT PIER

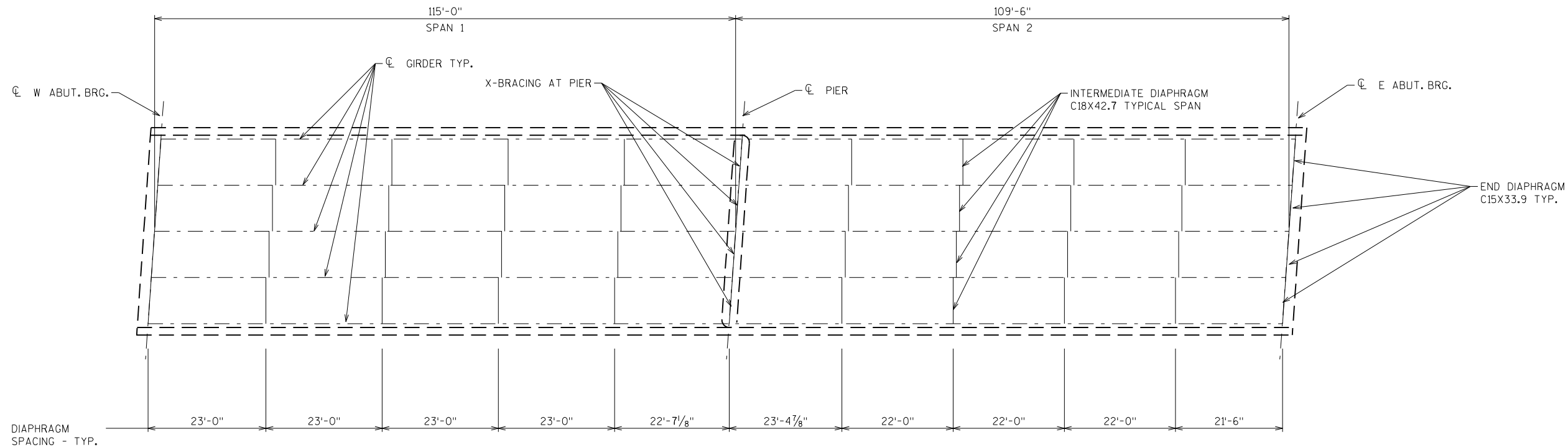
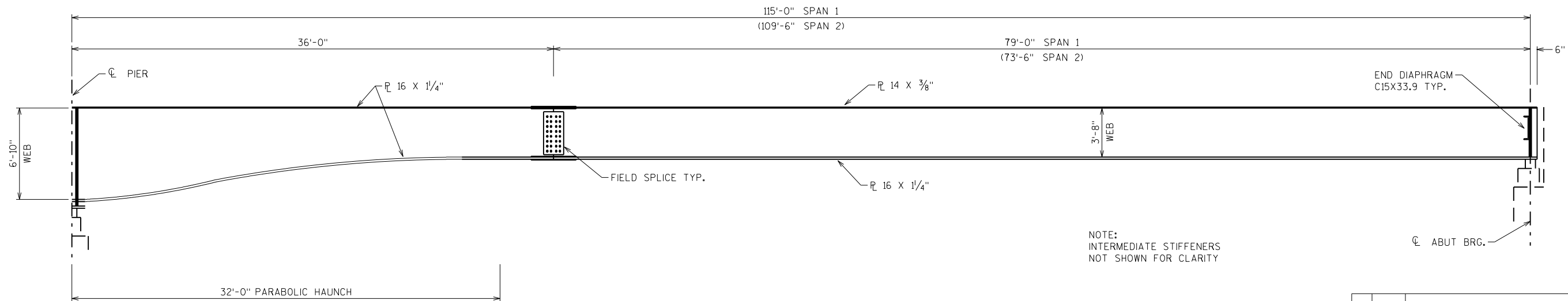
CROSS SECTION THRU ROADWAY

8

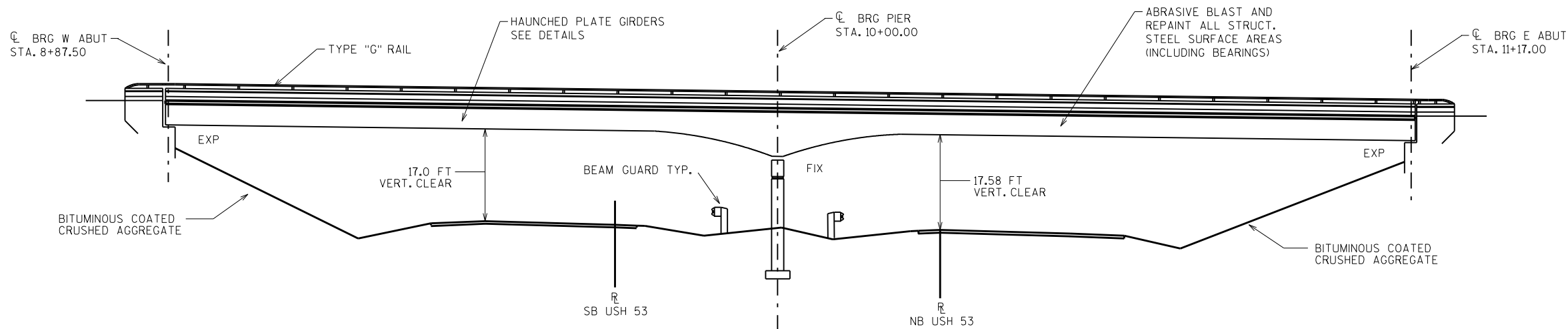
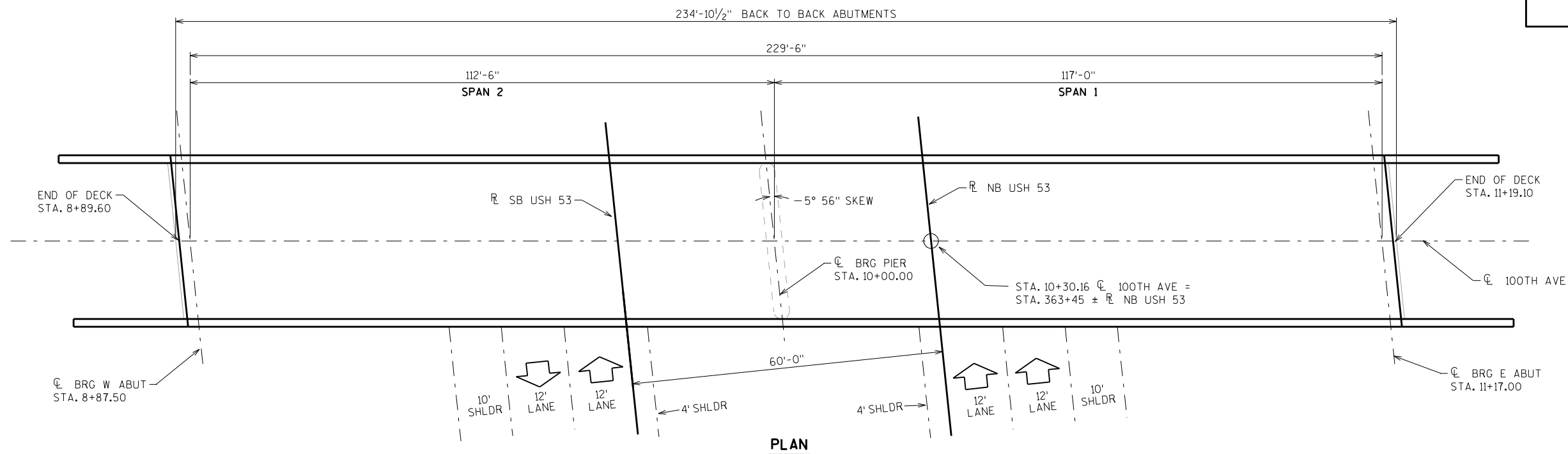
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NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE		B-09-54	
DRAWN BY		WJK	PLANS CK'D.
CROSS SECTION DETAILS		SHEET	2

SCALE = 4:0

**SUPERSTRUCTURE FRAMING PLAN****TYPICAL GIRDER ELEVATION**

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE		B-09-54	
DRAWN BY		WJK	PLANS CK'D.
SUPERSTRUCTURE DETAILS		SHEET	3

**GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED
DIMENSIONS BASED ON THE EXISTING STRUCTURE PLANS.
ESTIMATED STRUCTURAL STEEL SURFACE AREA = 13,200 SF

DESIGN DATALIVE LOAD:

DESIGN LOADING: H-20 (TAKEN FROM HSI - 10/06/2014)
INVENTORY RATING: HS-18 (TAKEN FROM HSI - 10/06/2014)
OPERATIONAL RATING: HS-29 (TAKEN FROM HSI - 10/06/2014)
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 190 KIPS. (TAKEN FROM HSI - 10/06/2014)

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM DESCRIPTION	UNITS	TOTAL
517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE, B09-0058	LS	1
517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS, B09-0058	LS	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EA	1

STRUCTURE DESIGN CONTACT:


WILLIAM KOVALESKI, JR (715) 225-9431
WILLIAM DREHER (608) 266-8489

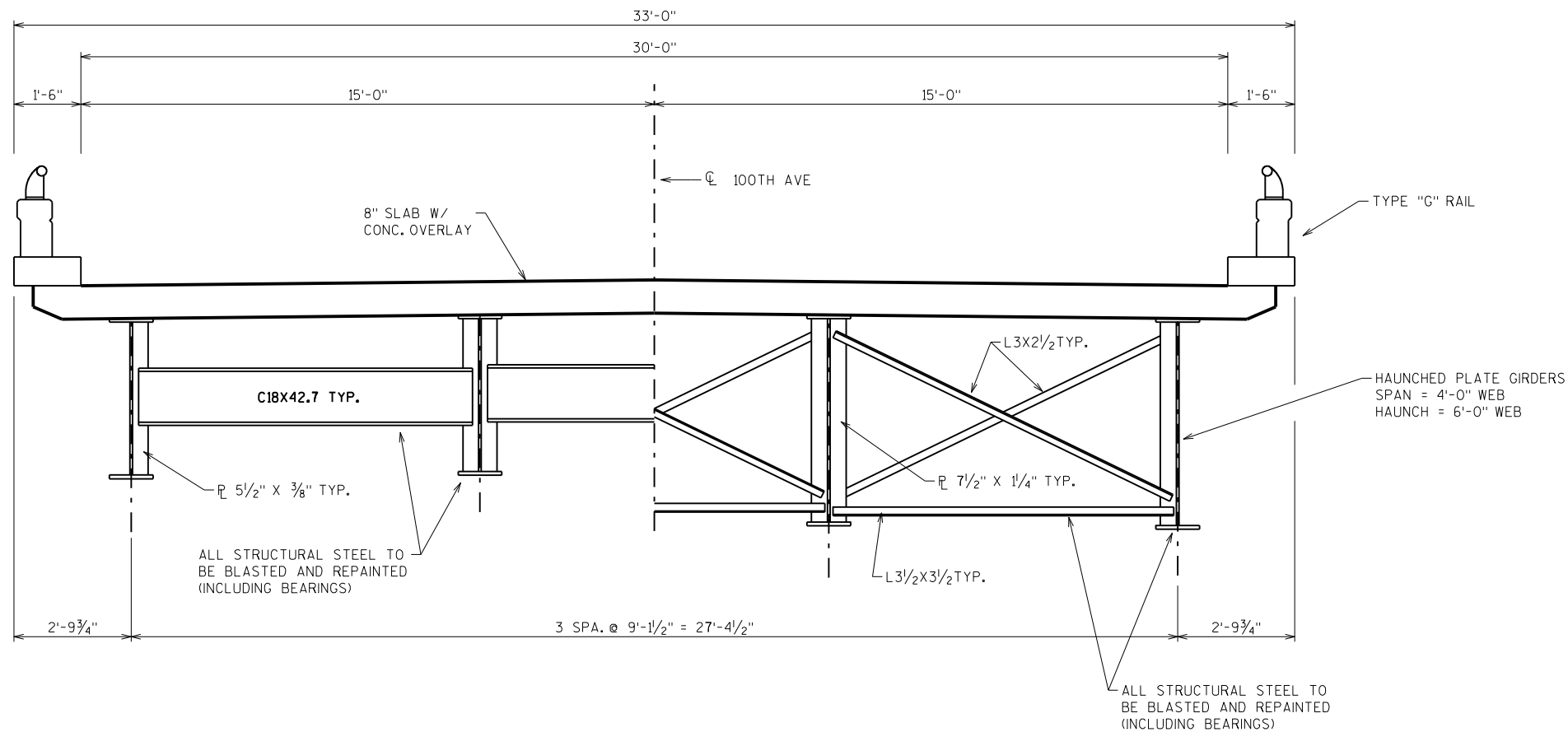
TRAFFIC VOLUME

USH 53
A.A.D.T. (2008) = 12,000
R.D.S. = 70

LIST OF DRAWINGS

1. STRUCTURE REPAINT
2. CROSS SECTION DETAILS
3. SUPERSTRUCTURE DETAILS

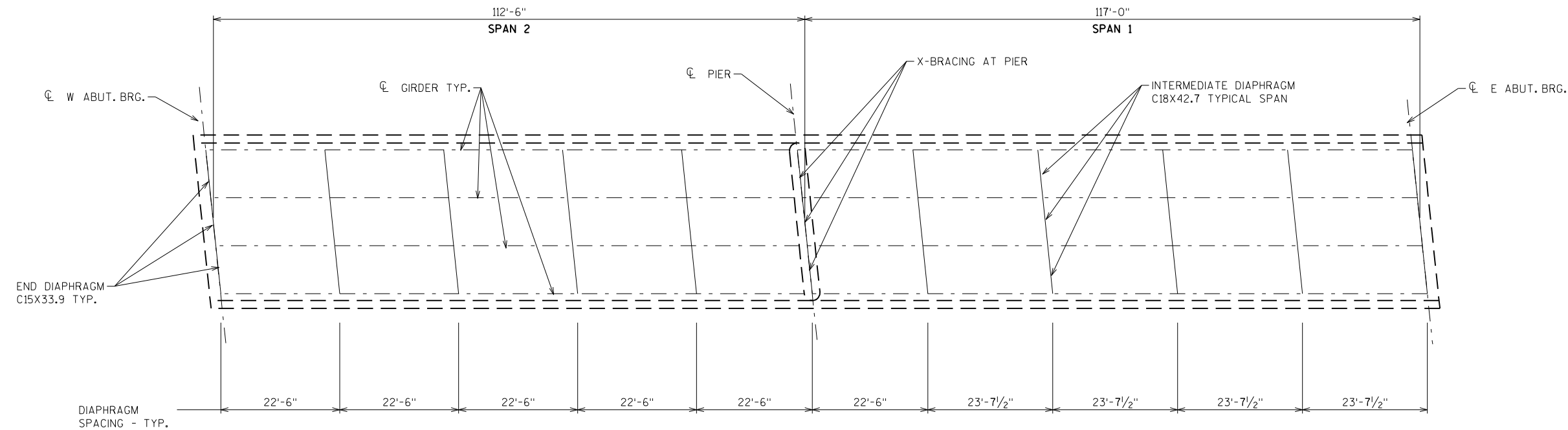
NO.	DATE	REVISION	BY
 Plans Prepared By WISDOT NORTHWEST REGION			
ACCEPTED	<i>William C. Dreher</i> KAR 11/03/14 CHIEF STRUCTURES DESIGN ENGINEER		DATE
STRUCTURE B-09-58			
100TH AVENUE OVER USH 53			
COUNTY	CHIPPEWA	TOWN/CITY/VILLAGE	TILDEN
DESIGN SPEC.	REHABILITATION	N/A	
DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
STRUCTURE REPAINT			SHEET 1 OF 3

IN SPANAT PIERCROSS SECTION THRU ROADWAY

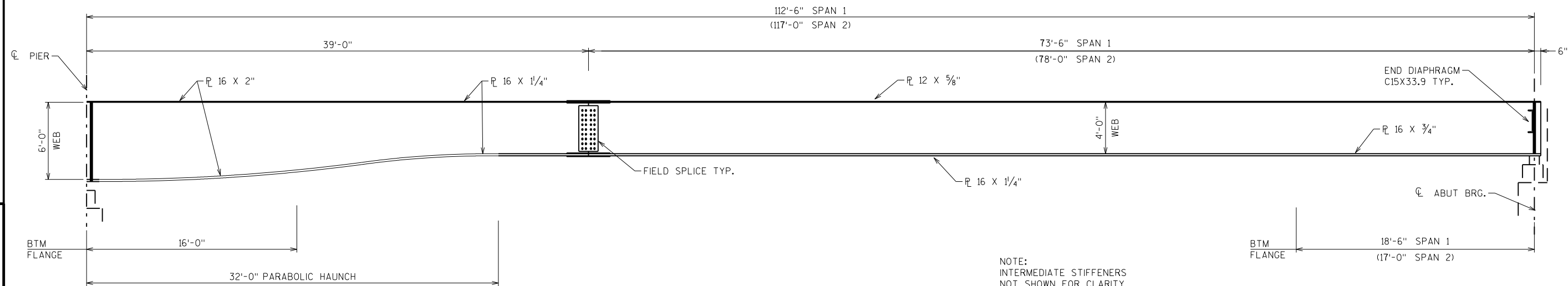
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8

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE		B-09-58	
DRAWN BY		WJK	PLANS CK'D.
CROSS SECTION DETAILS		SHEET 2	

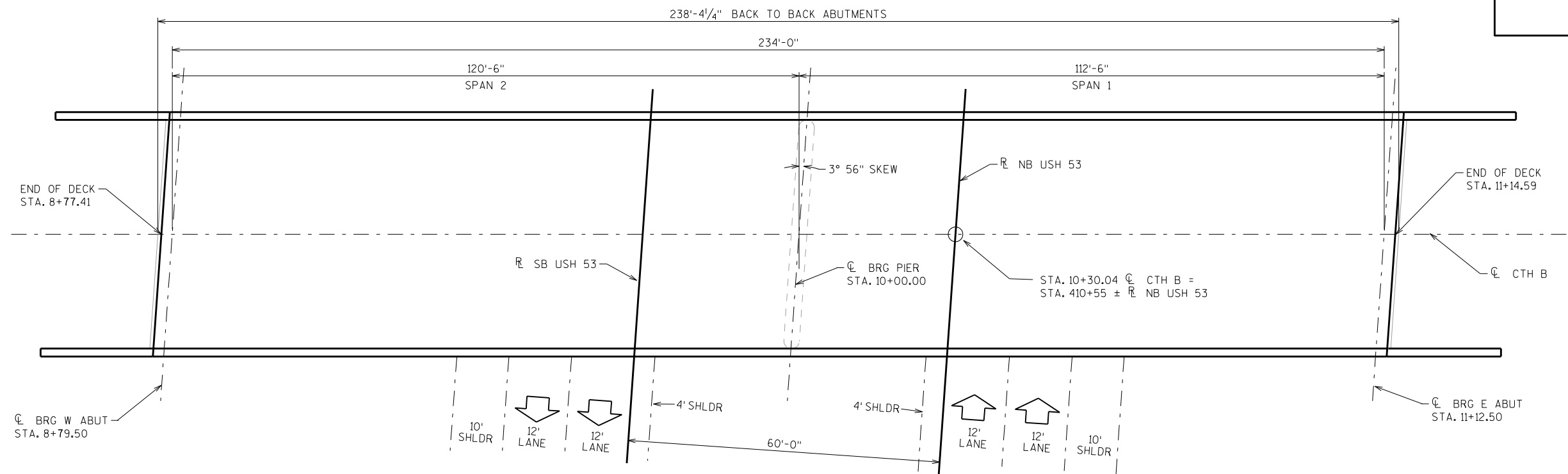


SUPERSTRUCTURE FRAMING PLAN

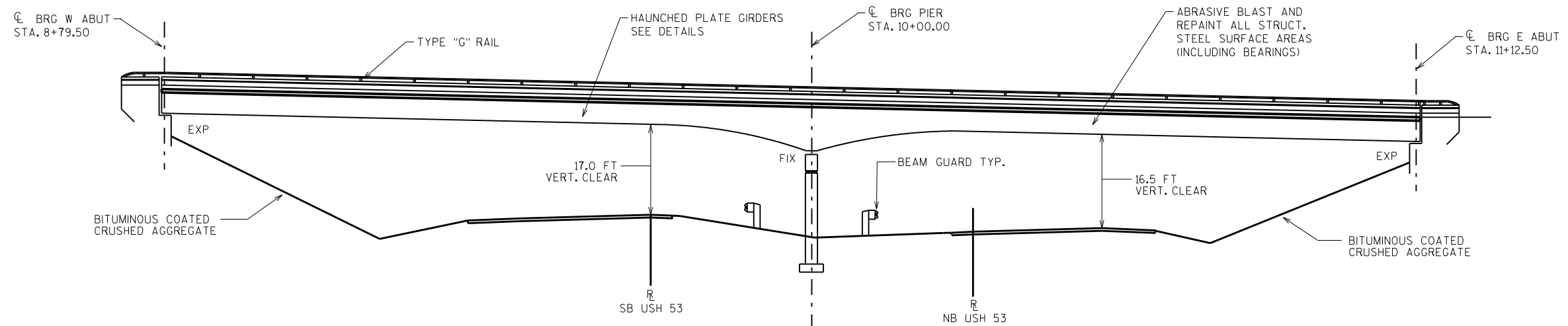


TYPICAL GIRDER ELEVATION

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE		B-09-58	
DRAWN BY		WJK	PLANS CK'D.
SUPERSTRUCTURE DETAILS		SHEET 3	



PLAN



ELEVATION

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED
DIMENSIONS BASED ON THE EXISTING STRUCTURE PLANS.
ESTIMATED STRUCTURAL STEEL SURFACE AREA = 19,900 SF

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: H-20 (TAKEN FROM HSI - 10/06/2014)
INVENTORY RATING: HS-13 (TAKEN FROM HSI - 10/06/2014)
OPERATIONAL RATING: HS-26 (TAKEN FROM HSI - 10/06/2014)
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 160 KIPS. (TAKEN FROM HSI - 10/06/2014)

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM DESCRIPTION	UNITS	TOTAL
517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE, B09-0059	LS	1
517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS, B09-0059	LS	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EA	1

STRUCTURE DESIGN CONTACT:

WILLIAM KOVALESKI, JR (715) 225-9431
WILLIAM DREHER (608) 266-8489

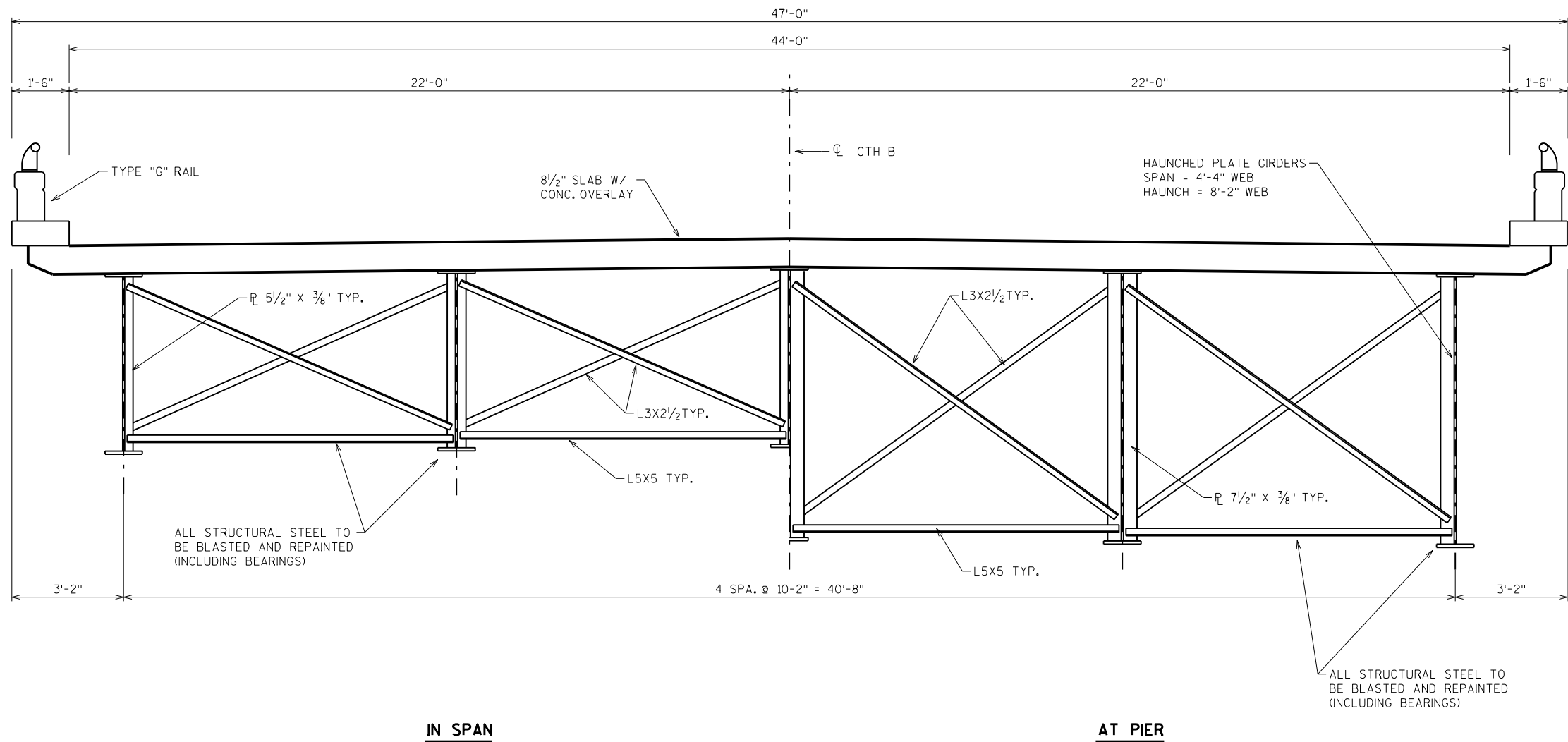
TRAFFIC VOLUME

USH 53
A.A.D.T. (2008) = 12,000
R.D.S. = 70

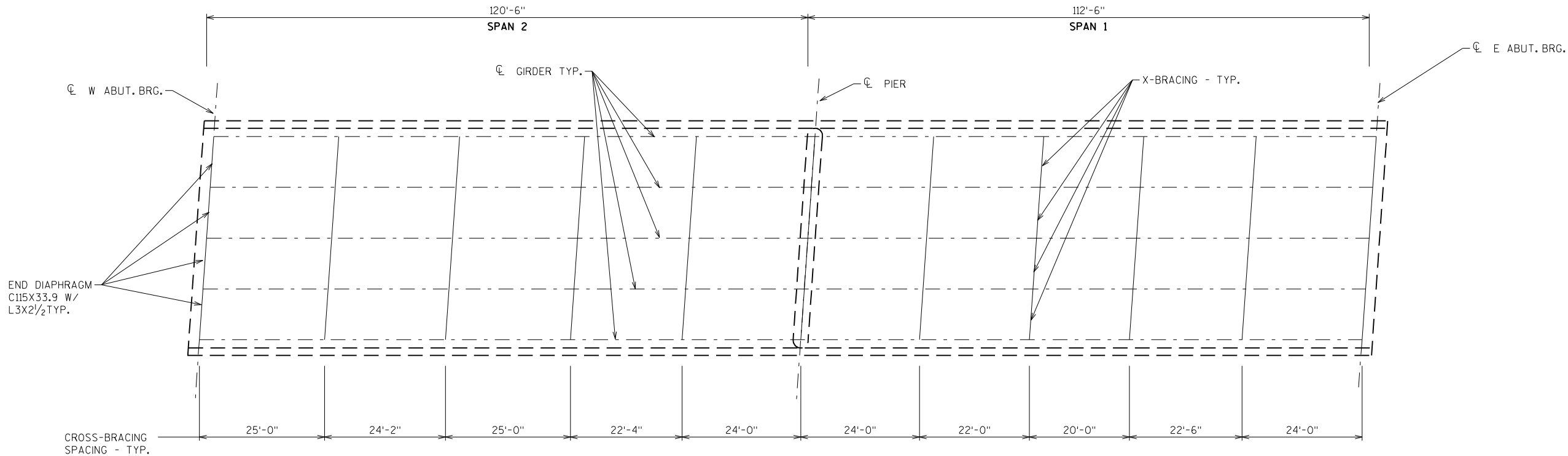
LIST OF DRAWINGS

- STRUCTURE REPAINT
- CROSS SECTION DETAILS
- SUPERSTRUCTURE DETAILS

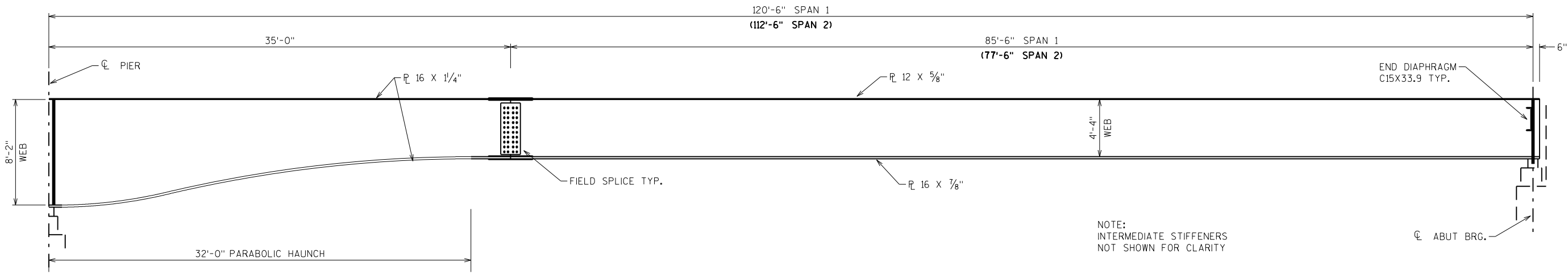
NO.	DATE	REVISION	BY
ACCEPTED <i>William C. Dreher</i> KAR 11/03/14 CHIEF STRUCTURES DESIGN ENGINEER DATE			
STRUCTURE B-09-59			
CTH B OVER USH 53			
COUNTY	CHIPPEWA	TOWN/CITY/VILLAGE	TILDEN
DESIGN SPEC.	REHABILITATION	N/A	
DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
STRUCTURE REPAINT			SHEET 1 OF 3

CROSS SECTION THRU ROADWAY

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE		B-09-59	
DRAWN BY		WJK	PLANS CK'D.
CROSS SECTION DETAILS		SHEET	2

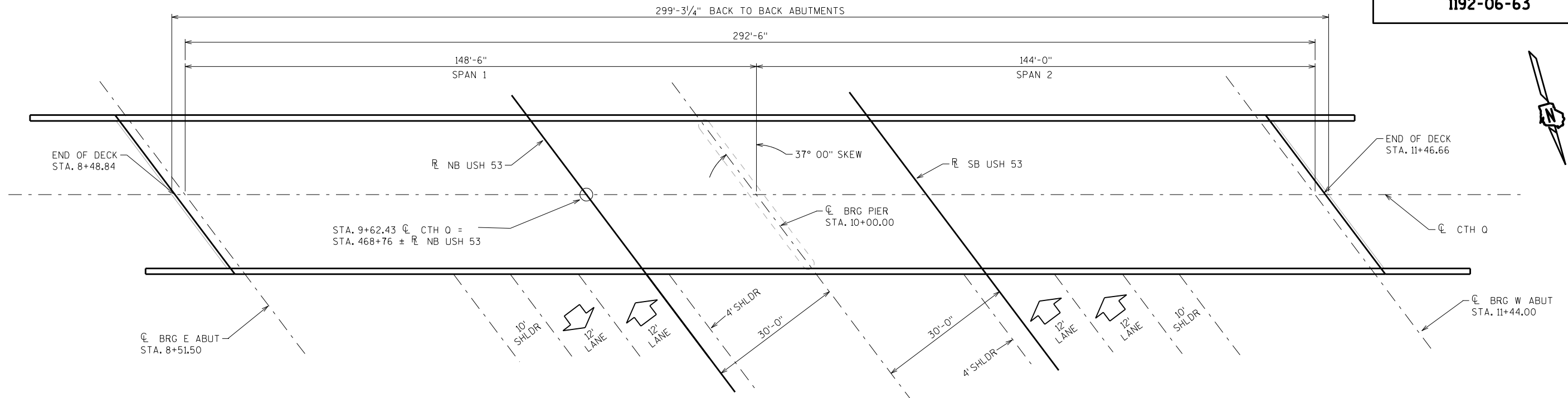


SUPERSTRUCTURE FRAMING PLAN

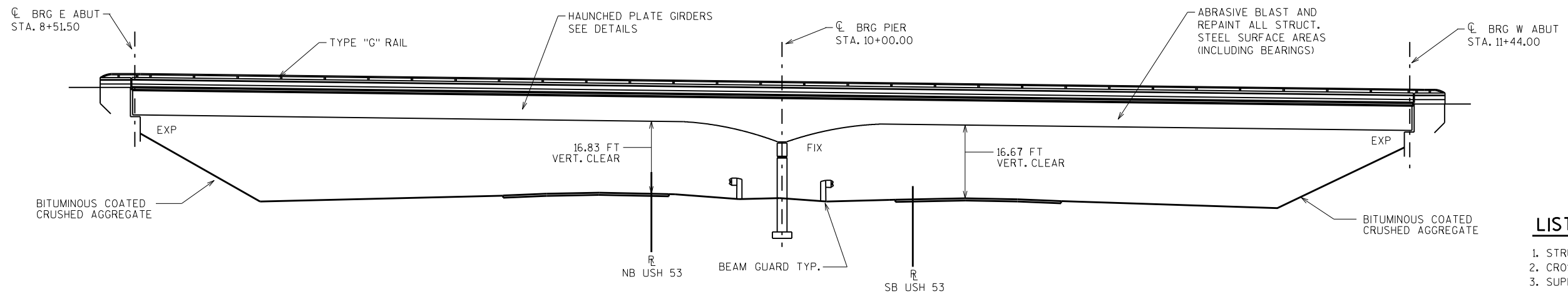


TYPICAL GIRDER ELEVATION

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-09-59			
DRAWN BY		WJK	PLANS CK'D.
SHEET		3	
SUPERSTRUCTURE DETAILS			



PLAN



ELEVATION

LIST OF DRAWINGS

1. STRUCTURE REPAIR
2. CROSS SECTION DETAILS
3. SUPERSTRUCTURE DETAILS

TRAFFIC VOLUME

USH 53
A.A.D.T. (2008) = 12,000
R.D.S. = 70

DESIGN DATA

LIVE LOAD: (TAKEN FROM HSI - 10/06/2014)
DESIGN LOADING: H-20
INVENTORY RATING: HS-18
OPERATIONAL RATING: HS-33
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 160 KIPS.

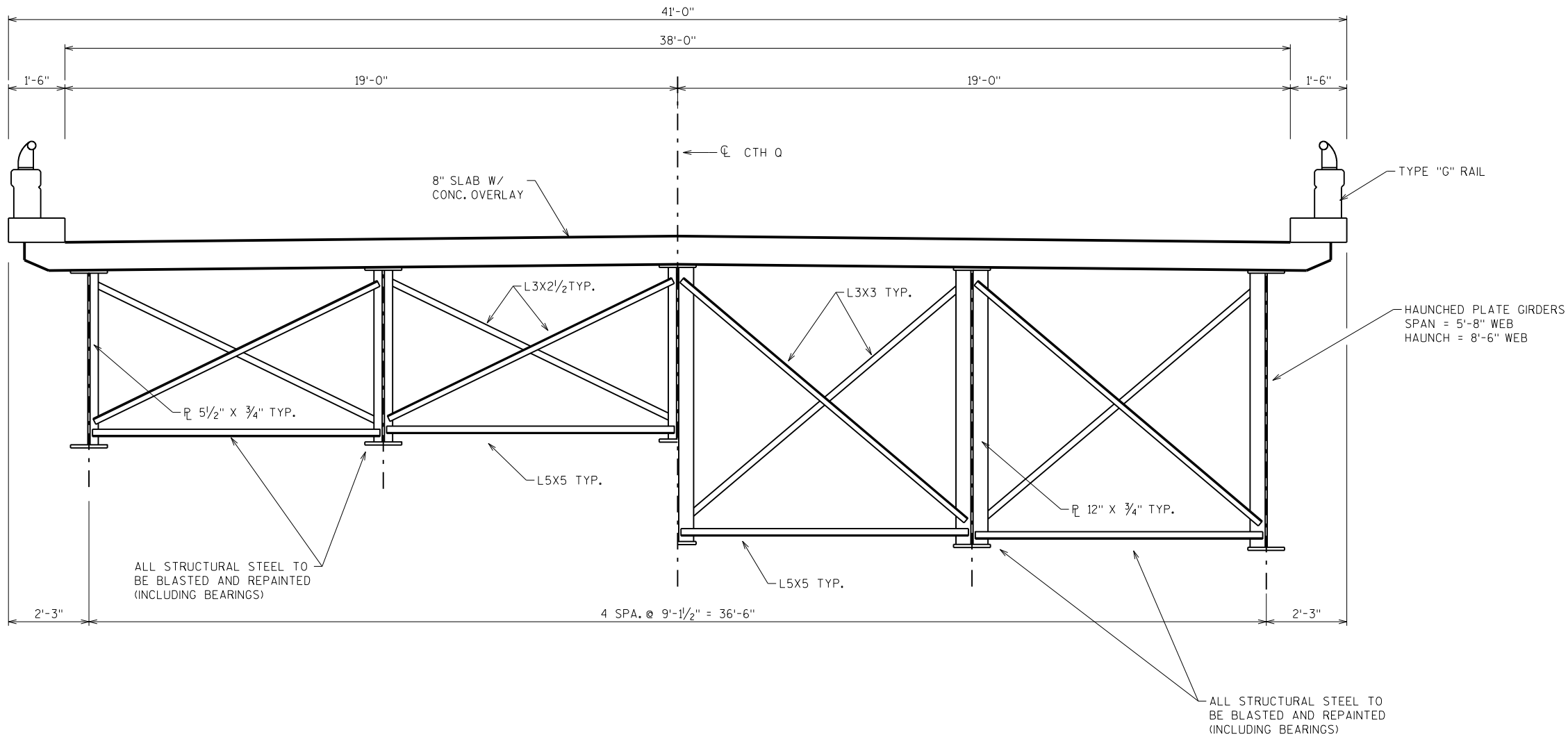
TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM DESCRIPTION	UNITS	TOTAL
517.1800.S	STRUCTURE REPAIRING RECYCLED ABRASIVE, B09-0060	LS	1
517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS, B09-0060	LS	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EA	1

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED
DIMENSIONS BASED ON THE EXISTING STRUCTURE PLANS.
ESTIMATED STRUCTURAL STEEL SURFACE AREA = 28,000 SF

NO.	DATE	REVISION	BY
Plans Prepared By WISDOT NORTHWEST REGION			
ACCEPTED	<i>William C. Dreher</i>	KAR 11/03/14	DATE
CHIEF STRUCTURES DESIGN ENGINEER			
STRUCTURE B-09-60			
CTH Q OVER USH 53			
COUNTY	CHIPPEWA	TOWN/CITY/VILLAGE	TILDEN
DESIGN SPEC.	REHABILITATION	N/A	
DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
---	---	WJK	---
STRUCTURE REPAIR			SHEET 1 OF 3



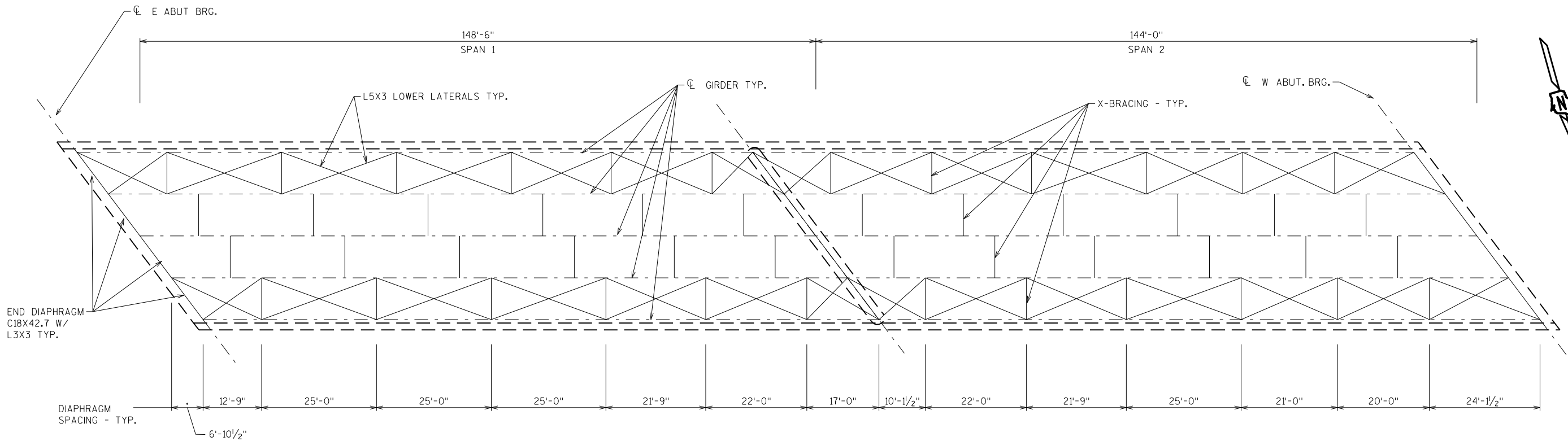
IN SPAN

AT PIER

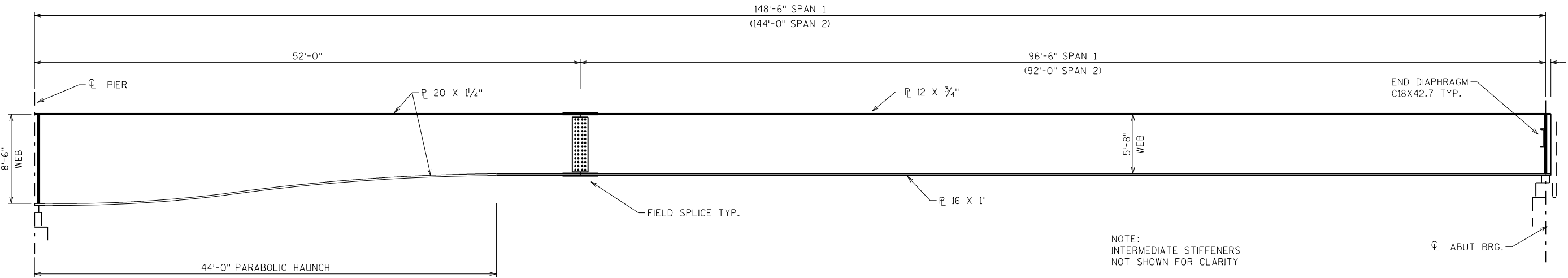
CROSS SECTION THRU ROADWAY

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE		B-09-60	
DRAWN BY		WJK	PLANS CK'D.
CROSS SECTION DETAILS			SHEET 2

SCALE = 4:0

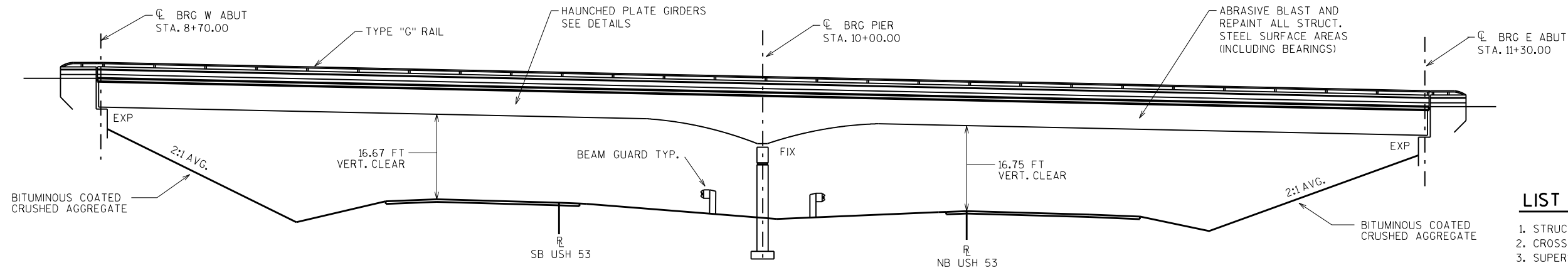
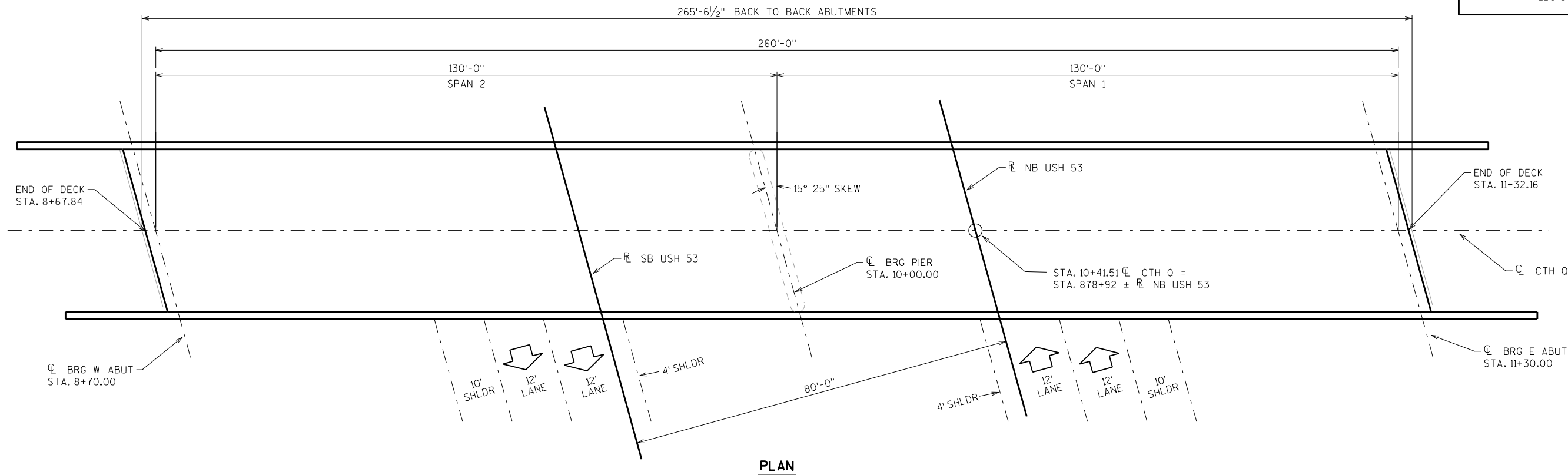


SUPERSTRUCTURE FRAMING PLAN



TYPICAL GIRDER ELEVATION

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE		B-09-60	
DRAWN BY		WJK	PLANS CK'D.
SUPERSTRUCTURE DETAILS		SHEET 3	

**LIST OF DRAWINGS**

1. STRUCTURE REPAINT
2. CROSS SECTION DETAILS
3. SUPERSTRUCTURE DETAILS

8

TRAFFIC VOLUME

USH 53

A.A.D.T. (2008) = 12,000
R.D.S. = 70

DESIGN DATA

LIVE LOAD: (TAKEN FROM HSI - 10/06/2014)

DESIGN LOADING: H-20
INVENTORY RATING: HS-16
OPERATIONAL RATING: HS-30
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 180 KIPS.

TOTAL ESTIMATED QUANTITIES


ITEM NUMBER	BID ITEM DESCRIPTION	UNITS	TOTAL
517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE, B09-0066	LS	1
517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS, B09-0066	LS	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EA	1

GENERAL NOTES

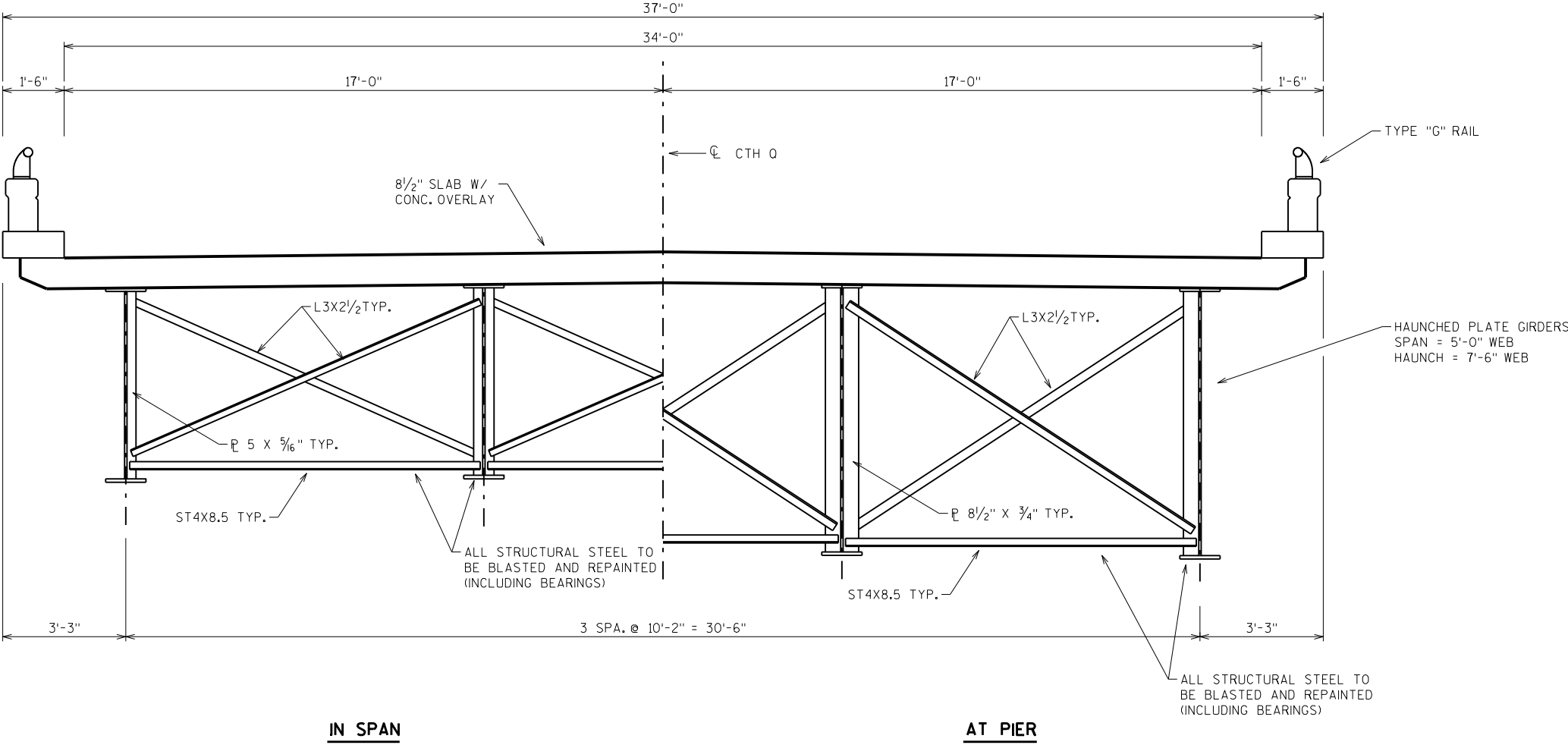
DRAWINGS SHALL NOT BE SCALED
DIMENSIONS BASED ON THE EXISTING STRUCTURE PLANS.
ESTIMATED STRUCTURAL STEEL SURFACE AREA = 21,300 SF

STRUCTURE DESIGN CONTACT:

WILLIAM KOVALESKI, JR (715) 225-9431
WILLIAM DREHER (608) 266-8489

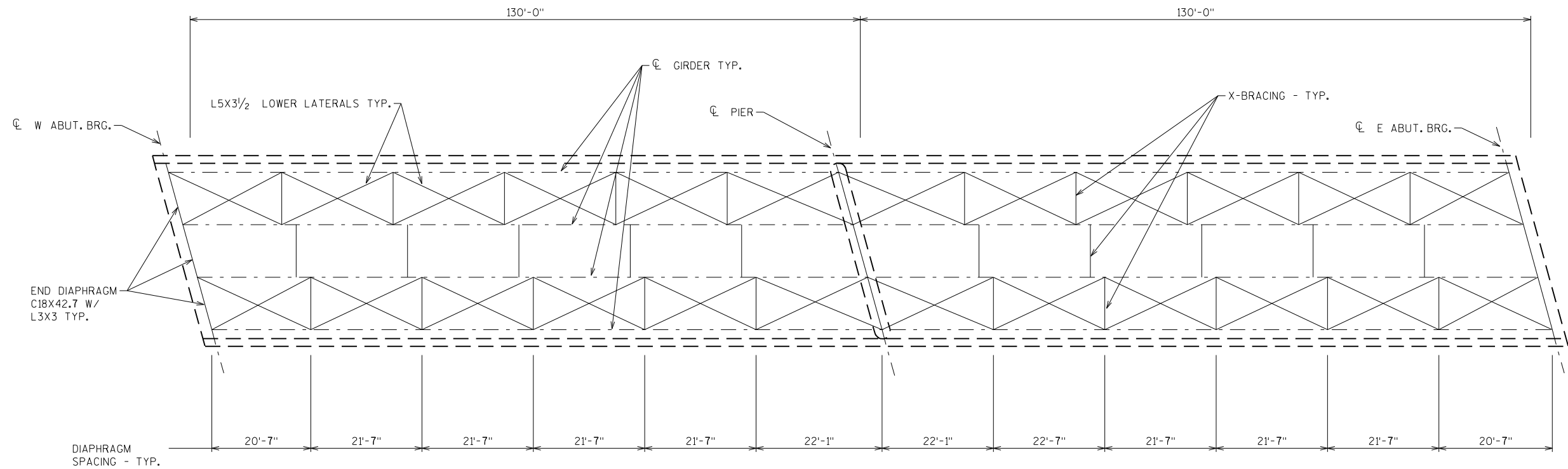
NO.	DATE	REVISION	BY
 Plans Prepared By WISDOT NORTHWEST REGION			
ACCEPTED <i>William C. Dreher</i> KAR		11/03/14	
CHIEF STRUCTURES DESIGN ENGINEER		DATE	
STRUCTURE B-09-66			
CTH Q OVER USH 53			
COUNTY	CHIPPEWA	TOWN/CITY/VILLAGE	WOODMOHR
DESIGN SPEC.	REHABILITATION	N/A	
DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
---	---	WJK	---
STRUCTURE REPAINT			SHEET 1 OF 3

8

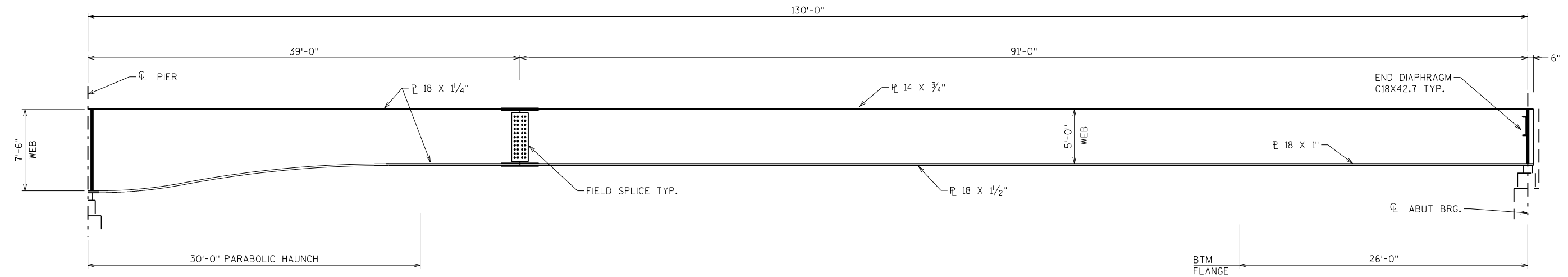


CROSS SECTION THRU ROADWAY

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE		B-09-66	
DRAWN BY		WJK	PLANS CK'D.
CROSS SECTION DETAILS		SHEET	2



SUPERSTRUCTURE FRAMING PLAN



TYPICAL GIRDER ELEVATION

NOTE:
INTERMEDIATE STIFFENERS
NOT SHOWN FOR CLARITY

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE		B-09-66	
		DRAWN BY	WJK PLANS CK'D.
SUPERSTRUCTURE DETAILS		SHEET 3	



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

<http://www.dot.wisconsin.gov>