DESIGN DATA

DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL.

FOUNDATION DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION

WIND PRESSURE:	120 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBMERS (1700 YEAR MEAN RECURRENCE INTERVAL)
ICE LOAD:	3 PSF TO ONE FACE OF SIGN & SURFACE OF MEMBERS
DEAD LOAD:	WT. OF SIGN AND SUPPORTING STRUCTURE

NORWAL	TRANSVERSE
1.00	0.00
0.00	1.00
0.75	0.75
	1.00 0.00

LOAD COMBINATIONS

STRENGTH:	1.25 DC + 1.6 LL
EXTREME I (MAX DC):	1.1 DC + 1.0 W + 1.0 ICE
EXTREME I (MIN DC):	0.9 DC + 1.0 W
SERVICE I:	1.0 DC + 1.0 W
FATIGUE:	1.0 NW (NATURAL WIND GUST)
	1.0 TrG (TRUCK INDUCED GUST)

MATERIAL PROPERTIES

CONCRETE MASONRY	- f' _c = 3,500 PSI
HIGH STRENGTH STEEL REINFORCEMENT, GRADE 60	f _y = 60,000 PSI
STRUCTURAL ANGLES, PLATES & BARS - ASTM A709 GRADE 36	f _y = 36,000 PSI
CHORDS & COLUMN PIPE - ASTM A500 GRADE C	f _Y = 46,000 PSI
HIGH STRENGTH BOLTS - ASTM A3125 GRADE A325	f _y = 92,000 PSI
ANCHOR RODS - ASTM F1554 GRADE 55	f _y = 55,000 PSI

HEAVY HEX NUTS - ASTM A563 GRADE DH OR ASTM A194 GRADE 2H

WASHERS - ASTM F436

DTI WASHERS - ASTM F959 TYPE 325

FOUNDATION DATA

SIGN STRUCTURE FOUNDATIONS ARE SUPPORTED ON DRILLED SHAFTS THAT HAVE BEEN DESIGN FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 24° (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 750 PSF (COHESIVE SOILS) AND A UNIT WEIGHT OF 125 PCF. THE GROUND WATER TABLE FOR DESIGN IS ASSUMED TO BE AT A DEPTH OF 10'-0" BELOW THE GROUND SURFACE, ACTUAL WATER LEVEL AT SITE MAY VARY. THE REGION GEOTECHNICAL ENGINEER SHALL VISUALLY INSPECT THE SUBSURFACE SOILS DURING THE DRILLID GO T HE SHAFT HOLE TO CONFRIM THESE PROPERTIES PRIOR TO PLACEMENT OF THE DRILLED SHAFT CONCRETE.

FOUNDATION DATA

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	BID ITEM NO.	BID ITEM	UNIT	S-XX-XXXX	s-xx-xxxx
I	204.024X	REMOVING ANCILLARY STRUCTURE XXXXXXXX (STRUCTURE)	EA		
I	531.20XX	DRILLING SHAFT XX-INCH	LF		
	531.6XXX	FOUNDATION TWO-SHAFT TYPE XX-XX	EA		
I	532.6XXX	TRUSS FULL SPAN 4-CHORD TYPE XX-XX	EA		
I					

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), XXXX COUNTY ZONE, NAD 83 (1997). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2007).

ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "TRUSS FULL SPAN 4-CHORD (TYPE)" FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

CATWALKS ARE USED ON 4-CHORD STRUCTURES CARRYING DMS SIGNS. CATWALKS SHALL BE INCIDENTAL TO THE BID ITEM "TRUSS FULL SPAN 4-CHORD (TYPE)" FOR EACH DMS SIGN STRUCTURE IN THE PLAN SET.

UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH $3\!$ DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF A TRUSS UNIT CAN BE GALVANIZED IN ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. A4-6, A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

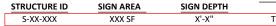
SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. BLANKS SHALL BE AS DESIGNATED IN STANDARD SPEC 532.3.7.1, AND SHALL BE CENTERED ON THE BRIDGE. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON THE SHOP DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "DRILLING SHAFT (DIA.)".

STRUCTURE DATA



LIST OF DRAWINGS: 1. GENERAL NOTES & DESIGN DATA 2. LAYOUT S-XX-XXXX

LIST OF STANDARD DESIGN DRAW

X. I. 4-CHORD TRUSS FULL SPAN TRUSS DETAILS
X. II. 4-CHORD TRUSS FULL SPAN COLUMN DETAILS
X. III. 4-CHORD TRUSS FULL SPAN CONNECTIONS 1
X. IV. 4-CHORD TRUSS FULL SPAN CONNECTIONS 2
X. V. 4-CHORD TRUSS FULL SPAN CATWALK DETAILS
X. VI. 4-CHORD TRUSS FULL SPAN ELECTRICAL DETAILS
X. VII. 4-CHORD TRUSS FULL SPAN FOUNDATIONS 1
X. VIII. 4-CHORD TRUSS FULL SPAN FOUNDATIONS 2

CONSULTANTS ADD STAMP TITLEBLOCK, INCLUDING LC DESIGN CONTACT INFO.

THESE ARE STANDARD DESIC MAINTAINED BY THE WISDOT. T THE DESIGN AND PLAN DETAI WITH THE GUIDANCE PROVID BRIDGE MANUA

FOUNDATION TRUSS TYPE TYPE TYPE XX TYPE XX	XXXX-XX-XX TRAFFIC VOLUME A.D.T. (20XX) = X,XXX R.D.S. = XX MPH
TYPE XX TYPE XX	A.D.T. (20XX) = X,XXX
WINGS	
WINGS	
WINGS	
A RED PERSC THAT	SIGNER NOTES: DOX INDICATES DATA TO BE EDITED BY THE DN EDITING THE SHEET. SOME ARE BLOCKS INCLUDE VISIBILITY STATES AND TEXT BUTES.
MP AND UPDATE	
	STRUCTURE DESIGN CONTACTS: AARON BONK 608-261-0261 CONSULTANT PHONE
ESIGN PLANS DEVELOPED AND	DATE REVISION BY
IT. THE DESIGNER CERTIFIES THAT TAILS CHOSEN ARE CONSISTENT VIDED IN THE CURRENT WISDOT JUAL CHAPTER 39.	STATE OF WISCONSIN
ACCEP	DEPARTMENT OF TRANSPORATION
	4-CHORD FULL SPAN
COUNT DESIGN AASHT DESIGN BY	N SPEC. O LRFD BRIDGE DESIGN SPECIFICATION
	GENERAL NOTES SHEET 1 OF