DESIGN DATA

CONTRACTOR DESIGNED OVERHEAD SIGN STRUCTURES SHALL BE 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.

STANDARD FOUNDATIONS DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

DEAD LOAD: ICE LOAD: WIND PRESSURE:	3 PSF TO ON 115 MPH (3-	I AND SUPPORTING STRUCTURE IE FACE OF SIGN & SURFACE OF MEMBERS SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS IEAN RECURRENCE INTERVAL)
WIND COMPONENTS	NORMAL	TRANSVERSE 0.00

LOAD CASE 2:	0.00	1.00
LOAD CASE 3:	0.75	0.75

LOAD COMBINATIONS

STRENGTH I:	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)
	1.0 GVW (GALLOPING - CANTILEVER ONLY)

MATERIAL PROPERTIES

- CONCRETE MASONRY ______ f'_c = 3,500 PSI
- HIGH STRENGTH STEEL REINFORCEMENT, GRADE 60 ______ f_v = 60,000 PSI
- STRUCTURAL ANGLES, PLATES & BARS ASTM A709 GRADE 36 ----- f_v = 36,000 PSI
- HIGH STRENGTH BOLTS ASTM A3125 GRADE A325 ______ f_v = 92,000 PSI

ANCHOR RODS - ASTM F1554 GRADE 55 ______ f_v = 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 DRILLING OF THE SHAFT HOLE TO CONFRIM THESE PROPERTIES PRIOR TO PLACEMENT OF THE DRILLED SHAFT CONCRETE.

TOTAL ESTIMATED QUANTITES

BID ITEM NO.	BID ITEM	UNIT	s-xx-xxxx	s-xx-xxxx
204.024X	REMOVING ANCILLARY STRUCTURE XXXXXXXX (STRUCTURE)	EA		
531.20XX	DRILLING SHAFT XX-INCH	LF		
531.5XXX	FOUNDATION SINGLE-SHAFT TYPE XX-XX	EA		
532.51XX	MONOTUBE CANTILEVER TYPE XX-XX	EA		
532.52XX	MONOTUBE FULL SPAN TYPE XX-XX	EA		
532.53XX	TRUSS CANTILEVER 2-CHORD TYPE XX-XX	EA		
532.54XX	TRUSS FULL SPAN 2-CHORD TYPE XX-XX	EA		

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 TRUSS OR MONOTUBE BID ITEMS 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 A4-3.

UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH $\frac{3}{4}$ " 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 ¼ THE LENGTH OF THE CANTILEVER SPAN, 2'-0" DEEPER THAN THE C/L TO C/L OF CHORDS, 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



OF ACTUAL SIGN AREA OR EXPECTED FUTURE SIGN (IF KNOWN), THIS SHOULD MATCH LAYOUT SHEET. CONTRACTOR WILL DESIGN TO LIMITS AND SIGN LOCATIONS ON LAYOUT SHEETS.

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

LIST OF STANDARD DESIGN DRAW

- X. I. MONOTUBE & 2-CHORD TRUSS CONNECTIONS 1 X. II. MONOTUBE & 2-CHORD TRUSS CONNECTIONS 2
- X. III. MONOTUBE & 2-CHORD TRUSS ELECTRICAL DETAILS
- X. IV. MONOTUBE & 2-CHORD TRUSS FOUNDATIONS

PROVIDE QUANTITIES FOR EACH SIGN

SUPER AND SUBSTRUCTURE QUANTITY BID ITEMS SHOULD MATCH UNLESS NON-STANDARD FOUNDATIONS ARE USED CONSULTANTS .ADD TITLE BLOCK INCLUD DESIGNER CONTACT

THESE ARE STANDARD DESI MAINTAINED BY THE WISDOT. THE DESIGN AND PLAN DETA WITH THE GUIDANCE PROVID BRIDGE MANU/

8

		STATE PROJECT	NUMBER		
IDATION TRUSS		XXXX-XX	(-XX		
YPE TYPE			ΛΕ		
		xx) = x,xxx			
	N.D.J. – A7				
NGS					
		R NOTES:			
	A RED BOX INDIC PERSON EDITING	CATES DATA TO BE ED THE SHEET. SOME A	RE BLOCKS		
	A RED BOX INDIC PERSON EDITING	CATES DATA TO BE ED	RE BLOCKS		
	A RED BOX INDIC PERSON EDITING THAT INCLUDE V	CATES DATA TO BE ED THE SHEET. SOME A	RE BLOCKS		
	A RED BOX INDIC PERSON EDITING THAT INCLUDE V	CATES DATA TO BE ED THE SHEET. SOME A	RE BLOCKS		
TAMP AND UPDATE IS LOGO AND IFORMATION	A RED BOX INDIC PERSON EDITING THAT INCLUDE V	CATES DATA TO BE ED THE SHEET. SOME A	RE BLOCKS		
IG LOGO AND	A RED BOX INDIC PERSON EDITING THAT INCLUDE V ATTRIBUTES.	ATES DATA TO BE ED THE SHEET. SOME A ISIBILITY STATES AND	RE BLOCKS TEXT TS:		
IG LOGO AND	A RED BOX INDIC PERSON EDITING THAT INCLUDE V ATTRIBUTES.	ATES DATA TO BE ED I THE SHEET. SOME AI ISIBILITY STATES AND URE DESIGN CONTAC BONK 608	RE BLOCKS TEXT TES: -261-0261		
IG LOGO AND	A RED BOX INDIC PERSON EDITING THAT INCLUDE V ATTRIBUTES. STRUCTI AARON	ATES DATA TO BE ED I THE SHEET. SOME AI ISIBILITY STATES AND URE DESIGN CONTAC BONK 608	RE BLOCKS TEXT TES: -261-0261	BY	
IG LOGO AND IFORMATION	A RED BOX INDIC PERSON EDITING THAT INCLUDE V ATTRIBUTES. STRUCTI AARON CONSUL	LATES DATA TO BE ED THE SHEET. SOME A ISIBILITY STATES AND URE DESIGN CONTAC BONK 608 TANT PHC	RE BLOCKS TEXT TES: -261-0261	BY	
IG LOGO AND IFORMATION N PLANS DEVELOPED AND HE DESIGNER CERTIFIES THAT S CHOSEN ARE CONSISTENT D IN THE CURRENT WISDOT	A RED BOX INDIC PERSON EDITING THAT INCLUDE V ATTRIBUTES. STRUCTI AARON CONSUL	LATES DATA TO BE ED THE SHEET. SOME A ISIBILITY STATES AND URE DESIGN CONTAC BONK 608 TANT PHC	RE BLOCKS TEXT TES: -261-0261	BY	
IG LOGO AND	A RED BOX INDIC PERSON EDITING THAT INCLUDE V ATTRIBUTES. STRUCTI AARON I CONSUL NO. DATE	ATES DATA TO BE ED THE SHEET. SOME A ISIBILITY STATES AND URE DESIGN CONTAC BONK 608 TANT PHO REVISION STATE OF WISCON	RE BLOCKS TEXT 55: -261-0261 NNE	BY	8
IG LOGO AND IFORMATION N PLANS DEVELOPED AND HE DESIGNER CERTIFIES THAT S CHOSEN ARE CONSISTENT D IN THE CURRENT WISDOT	A RED BOX INDIC PERSON EDITING THAT INCLUDE V ATTRIBUTES.	ATES DATA TO BE ED ITHE SHEET. SOME AI ISIBILITY STATES AND URE DESIGN CONTAC BONK 608 TANT PHO REVISION	RE BLOCKS TEXT 55: -261-0261 NNE	BY	8
IG LOGO AND IFORMATION N PLANS DEVELOPED AND HE DESIGNER CERTIFIES THAT S CHOSEN ARE CONSISTENT D IN THE CURRENT WISDOT	A RED BOX INDIC PERSON EDITING THAT INCLUDE V ATTRIBUTES.	ATES DATA TO BE ED THE SHEET. SOME A ISIBILITY STATES AND URE DESIGN CONTAC BONK 608 TANT PHO REVISION STATE OF WISCON PARTMENT OF TRANSI	RE BLOCKS TEXT TES: -261-0261 DNE SIN PORATION	E	8
IG LOGO AND IFORMATION N PLANS DEVELOPED AND HE DESIGNER CERTIFIES THAT S CHOSEN ARE CONSISTENT D IN THE CURRENT WISDOT	A RED BOX INDIC PERSON EDITING THAT INCLUDE V ATTRIBUTES.	ATES DATA TO BE ED THE SHEET. SOME A ISIBILITY STATES AND URE DESIGN CONTAC BONK 608 TANT PHO REVISION STATE OF WISCON PARTMENT OF TRANSI STRUCTURES DESIGN ENC OTUBE & 2	RE BLOCKS TEXT TEXT 261-0261 DNE SINE PORATION SINEER DAT 2-CHORD	E	8
IG LOGO AND IFORMATION N PLANS DEVELOPED AND HE DESIGNER CERTIFIES THAT S CHOSEN ARE CONSISTENT D IN THE CURRENT WISDOT	A RED BOX INDIC PERSON EDITING THAT INCLUDE V ATTRIBUTES.	ATES DATA TO BE ED THE SHEET. SOME A ISIBILITY STATES AND URE DESIGN CONTAC BONK 608 TANT PHO REVISION STATE OF WISCON PARTMENT OF TRANSI STRUCTURES DESIGN ENC COTUBE & 2 LOCATION DESCRIP	RE BLOCKS TEXT TEXT 261-0261 DNE SINE PORATION SINEER DAT 2-CHORD	E	8
IG LOGO AND IFORMATION N PLANS DEVELOPED AND HE DESIGNER CERTIFIES THAT S CHOSEN ARE CONSISTENT D IN THE CURRENT WISDOT	A RED BOX INDIC PERSON EDITING THAT INCLUDE V ATTRIBUTES. STRUCTI AARON CONSUL NO. DATE NO. DATE DEF ACCEPTED CHIEF COUNTY DESIGN SPEC. AASHTO LRFD BRIDC	ATES DATA TO BE ED THE SHEET. SOME A ISIBILITY STATES AND URE DESIGN CONTAC BONK 608 TANT PHC REVISION STATE OF WISCON PARTMENT OF TRANSI STRUCTURES DESIGN ENC OTUBE & 2 LOCATION DESCRIP TOWN/C GE DESIGN SPECIFICATION	RE BLOCKS TEXT TEXT -261-0261 DNE SIN PORATION SINEER DAT CHORD TION ITY/VILLAGE	E	8
IG LOGO AND IFORMATION N PLANS DEVELOPED AND HE DESIGNER CERTIFIES THAT S CHOSEN ARE CONSISTENT D IN THE CURRENT WISDOT	A RED BOX INDIC PERSON EDITING THAT INCLUDE V ATTRIBUTES.	ATES DATA TO BE ED THE SHEET. SOME A ISIBILITY STATES AND URE DESIGN CONTAC BONK 608 TANT PHO REVISION STATE OF WISCON PARTMENT OF TRANSI STRUCTURES DESIGN ENC COTUBE & 2 LOCATION DESCRIP TOWN/C	ISIN PORATION SINEER DAT CHORD TION TY/VILLAGE	E	8
G LOGO AND FORMATION N PLANS DEVELOPED AND THE DESIGNER CERTIFIES THAT S CHOSEN ARE CONSISTENT D IN THE CURRENT WISDOT	A RED BOX INDIC PERSON EDITING THAT INCLUDE V ATTRIBUTES. STRUCTI AARON I CONSUL NO. DATE DESIGN SPEC. AASHTO LRFD BRIDC DESIGN SPEC. AASHTO LRFD BRIDC DESIGN ED DESIGNED DESIGNED DESIGNED DESIGNED DESIGNED DESIGNED DESIGNED	ATES DATA TO BE ED THE SHEET. SOME A ISIBILITY STATES AND URE DESIGN CONTAC BONK 608 TANT PHO REVISION STATE OF WISCON ARTMENT OF TRANSI STRUCTURES DESIGN ENC OTUBE & 2 LOCATION DESCRIP LOCATION DESCRIP TOWN/C SE DESIGN SPECIFICATION ESIGNED DRAWN	RE BLOCKS TEXT TEXT TS: -261-0261 DNE SINE PORATION SINEER DAT CHORD TION TT/VILLAGE	E	SCALE = 8