

8 - 6c2 TIES ARE TO BE PLACED WITH EVERY LAYER OF #6 SPIRAL/6cl CIRCULAR TIES IN THE TOP 6'-3 OF THE SHAFT

> 3'-34 BOLT CIRCLE

TOP VIEW

ANCHOR BOLT

€ TRUSS

DRILLED SHAFT QUANTITIES TRUSS LENGTH SHAFT LENGTH "L" EPOXY COATED REBAR STRUCTURAL CONCRETE 30 FT. 24 FT. 4531 LBS. 17.45 CU. YDS. 32 FT. 4701 LBS 5041 LB9 19.63 CH, YDS 29 FT. 31 FT. 36 FT. 5381 LBS. 21.09 CU. YDS. 38 FT. 5721 LBS 22.54 CU. YDS. 24.00 CU. YDS.

DISTANCE SHOWN ELSEWHERE IN PLANS - EDGE OF SLAB ¢ POST -TOP-OF-SHAFT FLEVATION IS TO BE SET AT SAME ELEVATION AS HIGH POINT ON ROADWAY OR AS DIRECTED BY THE ENGINEER. 6" MIN.

ELEVATION - TOP OF SHAFT

AND BACKFILL

SHAFT SPIRAL (11111) 487'-11 SPIRAL SPACER L I" x I" x . 23'-3 TOTAL 4531 LBS

LOCATION

SHAFT CIRCULAR TIES (ALTERNATE

SHAFT VERTICAL

SHAFT TIES

BAR

IOhl

6cl

6c2

REINFORCING BAR LIST - EPOXY COATED

32

32

72

SHAPE

0

__

TABULATED VALUE FOR L = 24'-0

23'-3

15'-9

4'-10

WEIGHT

3201

0

522

733

75

NO.

32

1.33

0

4

GENERAL NOTES:

EACH ADDITIONAL I'-O OF L

1'-0

15'-9

4'-10

19'-2

1'-0

138

0

0

29

3

TOTAL 170 LBS.

SPIRAL REINFORCING IS TO BE NO. 6 BAR WITH A 4'-6 OUTSIDE DIAMETER AND 9" PITCH WITH 4 EQUALLY SPACED L I" \times 1" \times 3 SPACERS PUNCHED TO HOLD SPIRALS. SPIRALS ARE TO HAVE IL STRANGED L IT SPIRALS ARE TO HAVE IL STRANGED TO HOLD SPIRALS.

4'-6

6cl

(ALTERNATE TIE)

BENT BAR DETAILS

NOTE: ALL DIMENSIONS ARE OUT TO OUT. D = PIN DIAMETER

D=4 2

1'-3

6c2

SCST-09-17

D=4

THE SPIRAL REINFORCING MAY BE SPLICED BY LAPPING 3'-1. THE LENGTH OF THE SPIRAL SHOWN DOES NOT INCLUDE THE LAPPED LENGTH OF THE SPLICES. THE COST OF THE LAPS AT SPLICES IS TO BE INCLUDED IN THE PRICE BID FOR OTHER LAPPENS.

CIRCULAR TIES MAY BE SUBSTITUTED FOR THE SPIRAL REINFORCEMENT. PAYMENT WILL BE BASED ON THE WEIGHT OF SPIRAL REINFORCEMENT, NO ADJUSTMENTS IN REINFORCING STEEL PAY WEIGHT WILL BE ALLOWED. SEE BENT BAR DETAILS FOR ALTERNATE TIE

ALL EXPOSED CORNERS 90° OR SHARPER SHALL BE FILLETED WITH A 3" DRESSED AND BEVELED STRIP.

ALL REINFORCING IS TO BE SECURELY WIRED IN PLACE BEFORE CONCRETE IS POURED.

THE FOUNDATION DETAILS SHOWN ARE BASED ON COMMON COHESIVE SOIL CONDITIONS (SILTY OR SANDY CLAY) WITH AN AVERAGE UNCONFINED COMPRESSIVE STRENGTH $(\mathbf{q}_{_{11}})$ OF AT LEAST 1.25 TON/FT2, WHICH MUST BE DETERMINED BY PREVIOUS SOIL
INVESTIGATIONS AT THE JOBSITE, WHEN OTHER CONDITIONS ARE INDICATED, THE BORING DATA WILL BE INCLUDED IN THE PLANS AND THE FOUNDATION EMBEDMENT WILL BE THE RESULT OF SITE SPECIFIC DESIGNS.

IF THE CONDITIONS ENCOUNTERED ARE DIFFERENT THAN THOSE INDICATED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DETERMINE IF THE FOUNDATION EMBEDMENT NEEDS TO BE MODIFIED. IF THE EMBEDMENT IS REVISED BY MORE THAN 12" BY THE CONTRACTOR, "AS-BUILT" PLANS SHALL BE PREPARED AND SUBMITTED TO THE IOWA DOT FOR FUTURE REFERENCE.

DESIGN EMBEDMENT LENGTHS LISTED IN THE SHAFT EMBEDMENT TABLE ARE BASED ON A SOIL UNDRAINED COHESION OF 0.625 TON/FT2, A SOIL EFFECTIVE UNIT WEIGHT OF 57.6 LB/FT3, AND A SOIL STRAIN FACTOR (E50) OF 0.007.

EXCAVATIONS SHALL BE DEWATERED BEFORE CONCRETE PLACEMENT AT NO ADDITIONAL

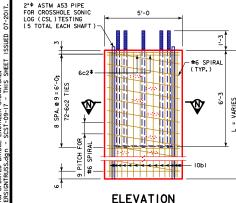
CONCRETE SHALL BE PLACED MONOLITHICALLY WITHOUT CONSTRUCTION JOINTS.

DRILLED SHAFT SHALL HAVE CROSSHOLE SONIC LOGGING (CSL) PIPES AS SHOWN. CSL PIPES SHALL BE PLACED IN A PATTERN SO THAT EACH PIPE IS SPACED THE MAXIMUM DISTANCE POSSIBLE FROM ADJACENT PIPES.

A NORMAL SURFACE FINISH FOLLOWED BY A CONCRETE SEALER APPLICATION IS REQUIRED ON CONCRETE SURFACES ABOVE THE LOWEST ELEVATION 6" BELOW FINISHED GROUND LINE.



UPDATED IGNTRUSS.



* NOT ALL 6c2 TIES ARE SHOWN