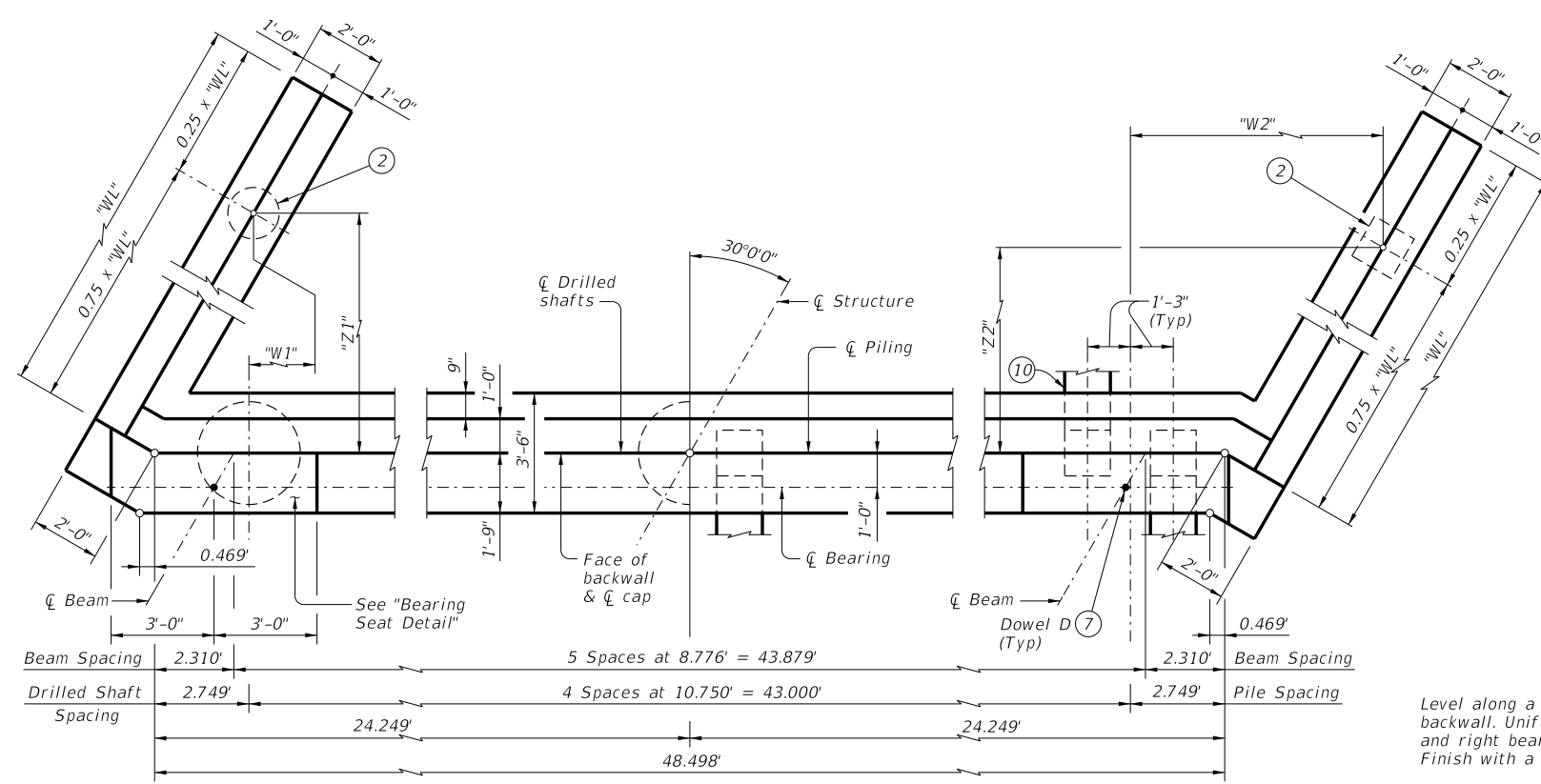


DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE: FILE:

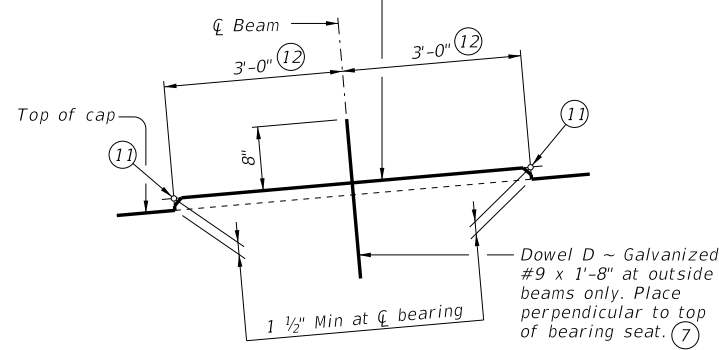
TABLE OF FOUNDATION LOADS		
Span Length	Drilled Shaft Load	Battered Pile Load
Ft	Tons/DS	Tons/Pile
40	61	51
45	65	54
50	70	56
55	74	58
60	78	60
65	82	62
70	86	64
75	91	67
80	95	69
85	99	71
90	103	73
95	107	75
100	111	77
105	115	79
110	119	81

- See Table A for variable dimensions based on header slope and beam type.
- See Table A to determine if wingwall foundations are required.
- For piling larger than 16" adjust Bars S spacing as required to avoid piling.
- Increase as required to maintain 3" from finished grade.
- See Span Details for "Y" value.
- See Bridge Layout to determine if approach slab is present.
- Omit Dowels D at end of multi-span unit. Adjust reinforcing steel total accordingly.
- With pile foundations, move Bars A shown to clear piles.
- Spacing based on beam type:
XB20 ~ 2 spaces at 1'-0" Max
XB28 ~ 3 spaces at 1'-0" Max
XB34 ~ 3 spaces at 1'-0" Max
XB40 ~ 3 spaces at 1'-0" Max
- See Detail A on Common Foundation Details (FD) standard.
- Right and left elevations and locations are provided elsewhere.
- Measured along \bar{C} of bearing.
- Field bend as needed to clear piles.



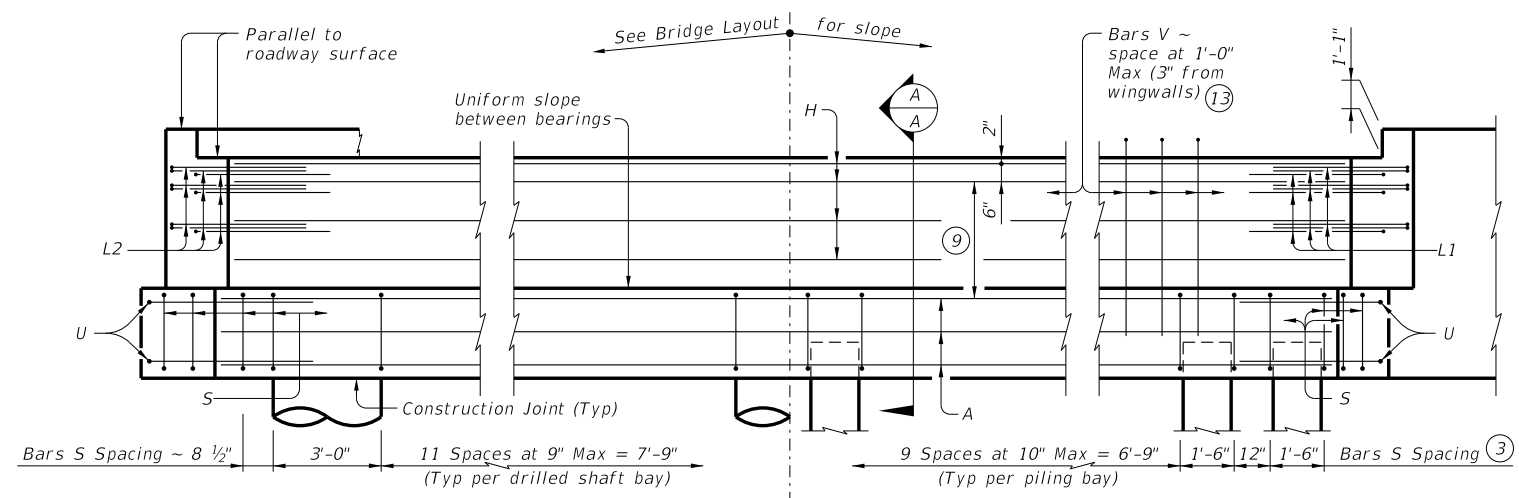
SHOWING DRILLED SHAFTS PLAN 1 SHOWING PILES

Level along a line perpendicular to backwall. Uniform slope between left and right bearing seat elevations. Finish with a wood float finish.



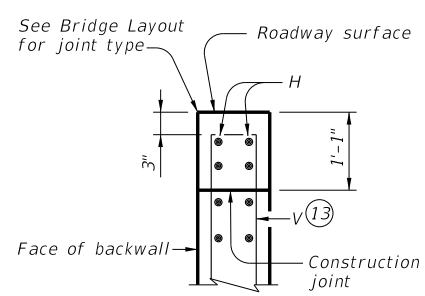
BEARING SEAT DETAIL

(Remove all loose material and clean bearing surface before placing the bearing pad.)



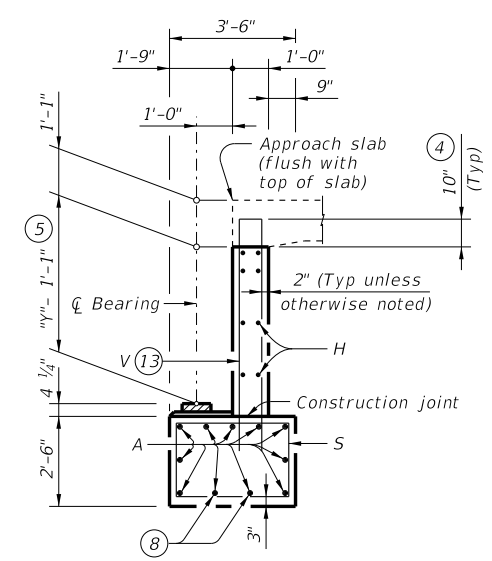
SHOWING DRILLED SHAFTS ELEVATION SHOWING PILES

ELEVATION



BACKWALL DETAIL

(Without approach slab) 6



SECTION A-A

(With approach slab) 6

MATERIAL NOTES:
Provide Class C concrete ($f'c = 3,600$ psi.)
Provide Class C (HPC) concrete if shown elsewhere in the plans.
Provide Grade 60 reinforcing steel.
Galvanize dowel bars D.

GENERAL NOTES:
Designed according to AASHTO LRFD Bridge Design Specifications.
See Bridge Layout for header slope and foundation type, size and length.
See Common Foundation Details (FD) standard for all foundation details and notes.
See Concrete Riprap (CRR) standard sheet or Stone Riprap (SRR) standard sheet for riprap attachment details, if applicable.
See Shear Key Details (XBSK) standard sheet for all shear key details and notes if applicable.
See applicable rail details for rail anchorage details in wingwalls.
Details are drawn showing right forward skew. See Bridge Layout for actual skew direction.
These abutment details may be used with standard SXB-44-30 only.

Cover dimensions are clear dimensions, unless noted otherwise.
Reinforcing bar dimensions shown are out-to-out of bar.

TABLE A											
Header Slope	Beam Type	Wingwall Type	Wingwall Length "WL"	"W1"	"Z1"	"W2"	"Z2"				
2:1	XB20	Cantilevered	9.000'	Not Applicable							
	XB28	Cantilevered	10.000'								
	XB34	Cantilevered	11.000'								
	XB40	Cantilevered	12.000'								
3:1	XB20	Cantilevered	12.000'	Not Applicable							
	XB28	Founded	15.000'					2.010'	10.243'	9.240'	9.243'
	XB34	Founded	16.000'					2.385'	10.892'	9.615'	9.892'
	XB40	Founded	18.000'					3.135'	12.191'	10.365'	11.191'

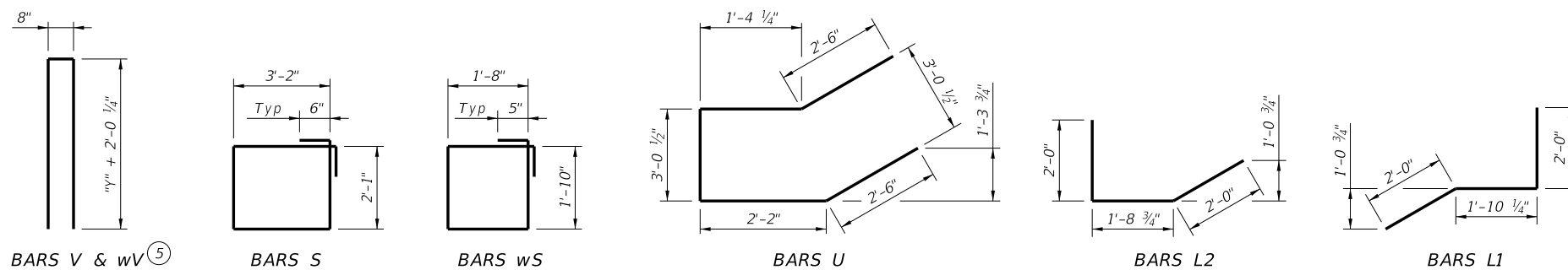
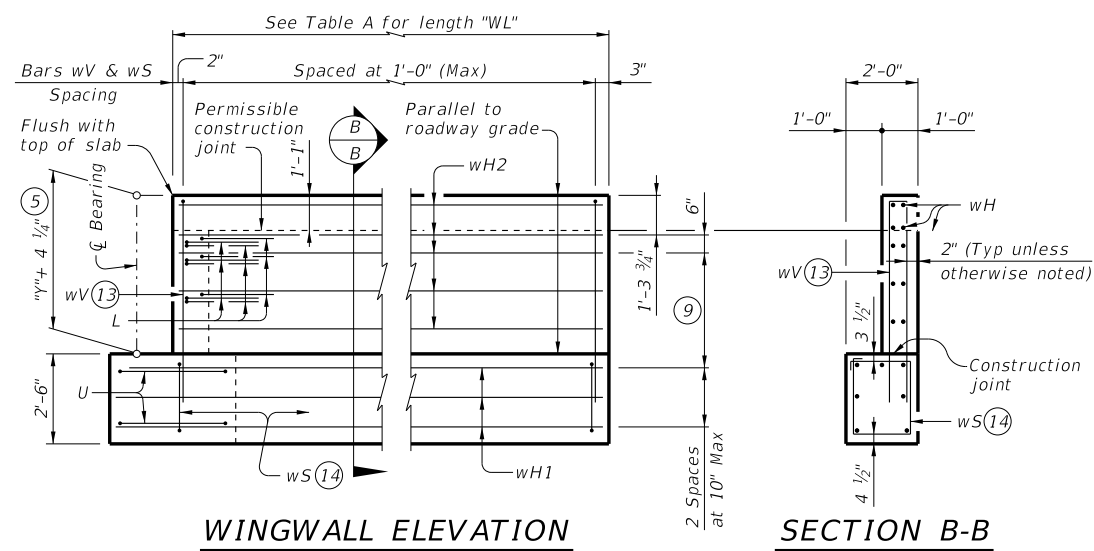
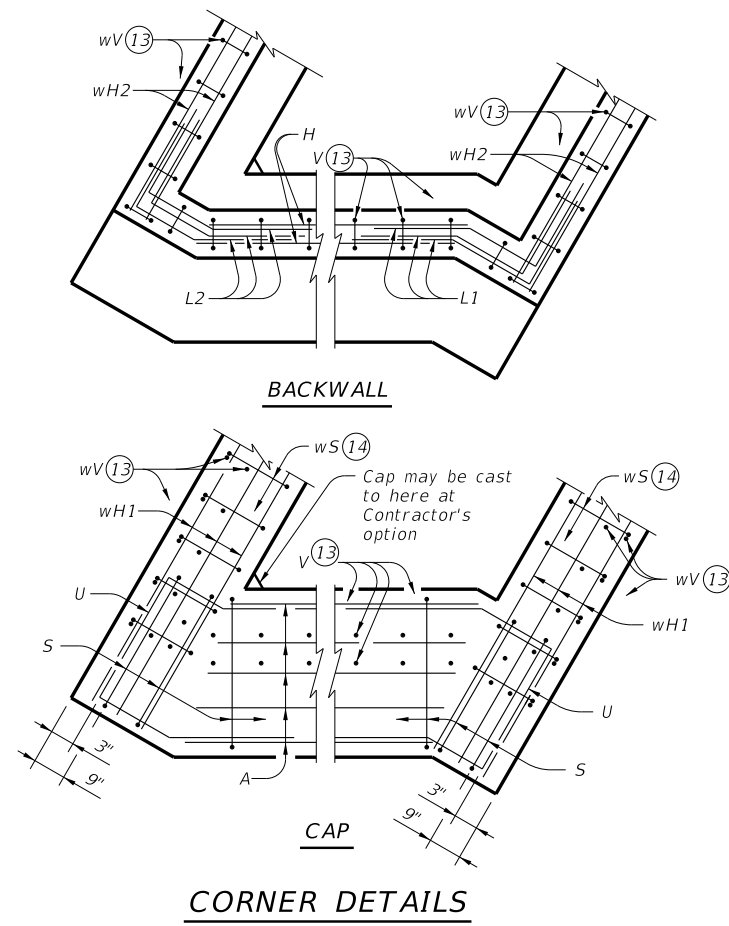


ABUTMENTS
PRESTR CONC X-BEAMS
(TYPE 5XB20 THROUGH 5XB40)
44' ROADWAY 30° SKEW
AXB-44-30

FILE: XB-AXB4430-22.dgn	DN: BMP	CK: EFC	DW: JER	CK: BMP
©TxDOT August 2022	CONT	SECT	JOB	HIGHWAY
REVISIONS				
	DIST	COUNTY		SHEET NO.

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE: FILE:



TABLES OF ESTIMATED QUANTITIES WITH 2:1 HEADER SLOPE (15)

TYPE 5XB20 BEAMS					TYPE 5XB28 BEAMS					TYPE 5XB34 BEAMS					TYPE 5XB40 BEAMS								
Bar	No.	Size	Length	Weight	Bar	No.	Size	Length	Weight	Bar	No.	Size	Length	Weight	Bar	No.	Size	Length	Weight				
A	11	#11	48'-6"	2,834	A	11	#11	48'-6"	2,834	A	11	#11	48'-6"	2,834	A	11	#11	48'-6"	2,834				
D(7)	2	#9	1'-8"	11	D(7)	2	#9	1'-8"	11	D(7)	2	#9	1'-8"	11	D(7)	2	#9	1'-8"	11				
H	6	#6	48'-6"	437	H	8	#6	48'-6"	583	H	8	#6	48'-6"	583	H	8	#6	48'-6"	583				
L1	9	#6	5'-11"	80	L1	9	#6	5'-11"	80	L1	9	#6	5'-11"	80	L1	9	#6	5'-11"	80				
L2	9	#6	5'-9"	78	L2	9	#6	5'-9"	78	L2	9	#6	5'-9"	78	L2	9	#6	5'-9"	78				
S	56	#5	11'-6"	672	S	56	#5	11'-6"	672	S	56	#5	11'-6"	672	S	56	#5	11'-6"	672				
U	4	#6	11'-7"	70	U	4	#6	11'-7"	70	U	4	#6	11'-7"	70	U	4	#6	11'-7"	70				
V	51	#5	10'-0"	532	V	51	#5	11'-3"	598	V	51	#5	12'-6"	665	V	51	#5	13'-3"	705				
wH1	14	#6	10'-5"	219	wH1	14	#6	11'-5"	240	wH1	14	#6	12'-5"	261	wH1	14	#6	13'-5"	282				
wH2	16	#6	8'-8"	208	wH2	20	#6	9'-8"	290	wH2	20	#6	10'-8"	320	wH2	20	#6	11'-8"	350				
wS	20	#4	7'-10"	105	wS	22	#4	7'-10"	115	wS	24	#4	7'-10"	126	wS	26	#4	7'-10"	136				
wV	20	#5	10'-0"	209	wV	22	#5	11'-3"	258	wV	24	#5	12'-6"	313	wV	26	#5	13'-3"	359				
Reinforcing Steel				Lb	5,455	Reinforcing Steel				Lb	5,829	Reinforcing Steel				Lb	6,013	Reinforcing Steel				Lb	6,160
Class "C" Concrete				CY	25.5	Class "C" Concrete				CY	27.8	Class "C" Concrete				CY	29.8	Class "C" Concrete				CY	31.8

TABLES OF ESTIMATED QUANTITIES WITH 3:1 HEADER SLOPE (15)

TYPE 5XB20 BEAMS					TYPE 5XB28 BEAMS					TYPE 5XB34 BEAMS					TYPE 5XB40 BEAMS								
Bar	No.	Size	Length	Weight	Bar	No.	Size	Length	Weight	Bar	No.	Size	Length	Weight	Bar	No.	Size	Length	Weight				
A	11	#11	48'-6"	2,834	A	11	#11	48'-6"	2,834	A	11	#11	48'-6"	2,834	A	11	#11	48'-6"	2,834				
D(7)	2	#9	1'-8"	11	D(7)	2	#9	1'-8"	11	D(7)	2	#9	1'-8"	11	D(7)	2	#9	1'-8"	11				
H	6	#6	48'-6"	437	H	8	#6	48'-6"	583	H	8	#6	48'-6"	583	H	8	#6	48'-6"	583				
L1	9	#6	5'-11"	80	L1	9	#6	5'-11"	80	L1	9	#6	5'-11"	80	L1	9	#6	5'-11"	80				
L2	9	#6	5'-9"	78	L2	9	#6	5'-9"	78	L2	9	#6	5'-9"	78	L2	9	#6	5'-9"	78				
S	56	#5	11'-6"	672	S	56	#5	11'-6"	672	S	56	#5	11'-6"	672	S	56	#5	11'-6"	672				
U	4	#6	11'-7"	70	U	4	#6	11'-7"	70	U	4	#6	11'-7"	70	U	4	#6	11'-7"	70				
V	51	#5	10'-0"	532	V	51	#5	11'-3"	598	V	51	#5	12'-6"	665	V	51	#5	13'-3"	705				
wH1	14	#6	13'-5"	282	wH1	14	#6	16'-5"	345	wH1	14	#6	17'-5"	366	wH1	14	#6	19'-5"	408				
wH2	16	#6	11'-8"	280	wH2	20	#6	14'-8"	441	wH2	20	#6	15'-8"	471	wH2	20	#6	17'-8"	531				
wS	26	#4	7'-10"	136	wS	32	#4	7'-10"	167	wS	34	#4	7'-10"	178	wS	38	#4	7'-10"	199				
wV	26	#5	10'-0"	271	wV	32	#5	11'-3"	375	wV	34	#5	12'-6"	443	wV	38	#5	13'-3"	525				
Reinforcing Steel				Lb	5,683	Reinforcing Steel				Lb	6,254	Reinforcing Steel				Lb	6,451	Reinforcing Steel				Lb	6,696
Class "C" Concrete				CY	27.3	Class "C" Concrete				CY	30.8	Class "C" Concrete				CY	33.2	Class "C" Concrete				CY	36.1

- (5) See Span Details for "Y" value.
- (7) Omit Dowels D at end of multi-span unit. Adjust reinforcing steel total accordingly.
- (9) Spacing based on beam type:
 XB20 ~ 2 spaces at 1'-0" Max
 XB28 ~ 3 spaces at 1'-0" Max
 XB34 ~ 3 spaces at 1'-0" Max
 XB40 ~ 3 spaces at 1'-0" Max
- (13) Field bend as needed to clear piles.
- (14) Adjust as required to avoid piling.
- (15) Quantities shown are for one abutment only (with approach slab.) With no approach slab, add 2.0 CY Class C concrete and 291 lbs of reinforcing steel for 4 additional H bars.



ABUTMENTS
PRESTR CONC X-BEAMS
 (TYPE 5XB20 THROUGH 5XB40)
 44' ROADWAY 30° SKEW
AXB-44-30

FILE: XB-AXB4430-22.dgn	DN: BMP	CK: EFC	DW: JER	CK: BMP
©TxDOT August 2022	CONT	SECT	JOB	HIGHWAY
REVISIONS	DIST	COUNTY	SHEET NO.	