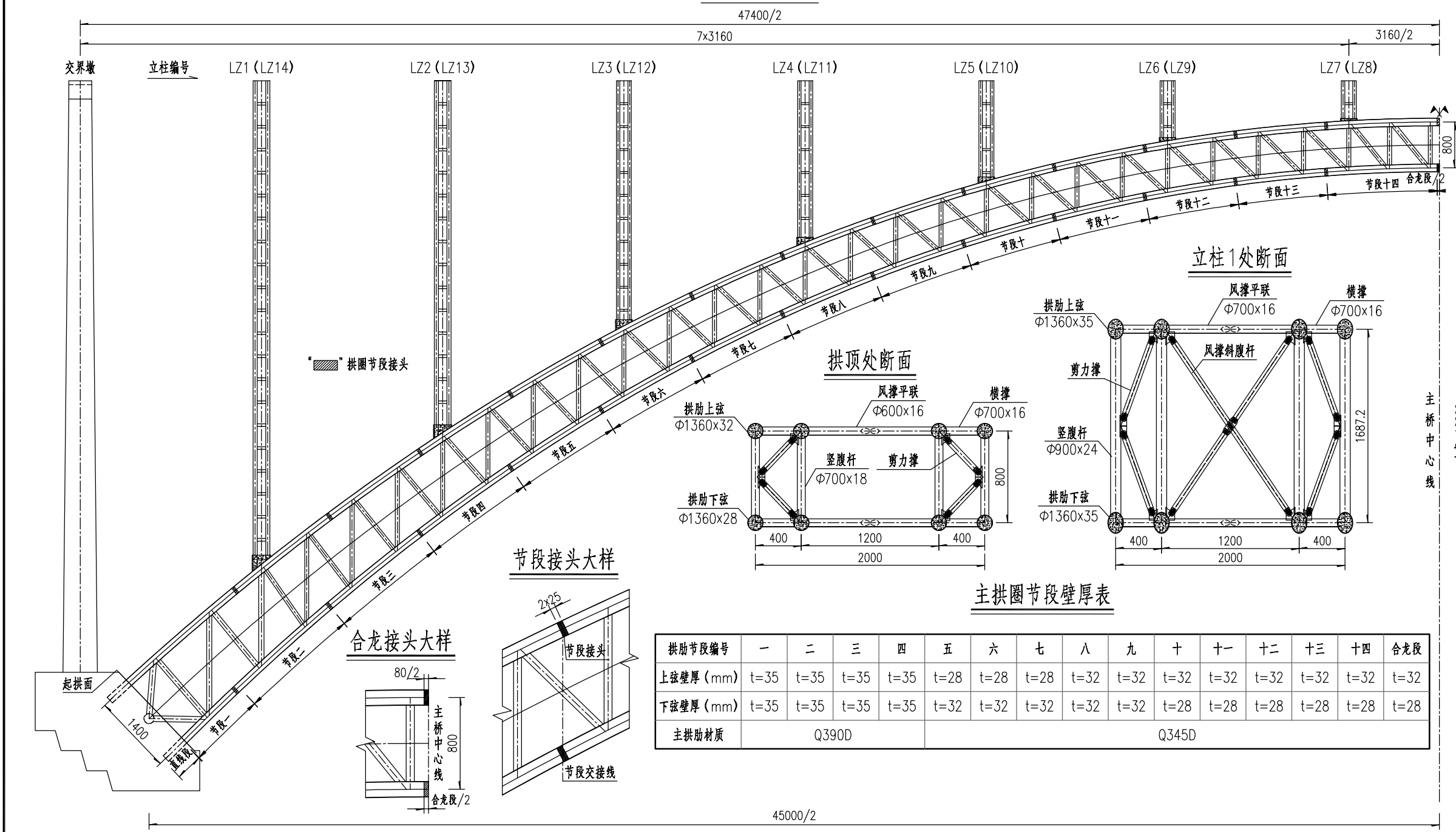
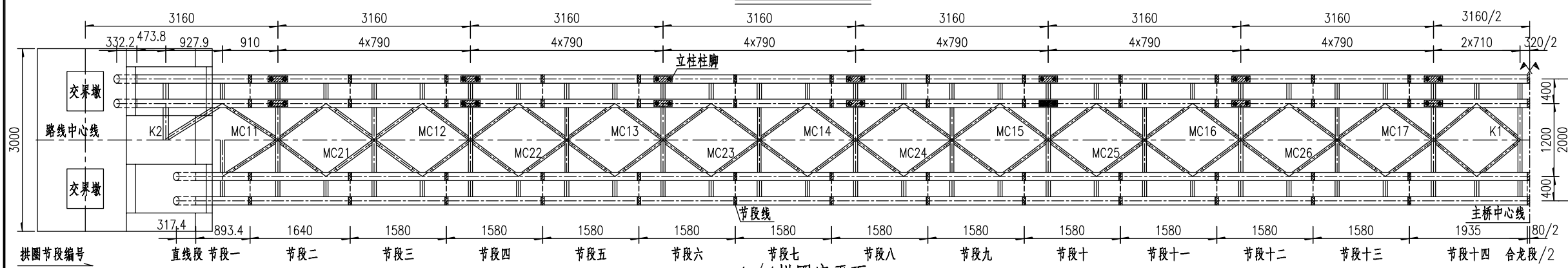


1/2 拱圈立面



1/4拱圈顶平面

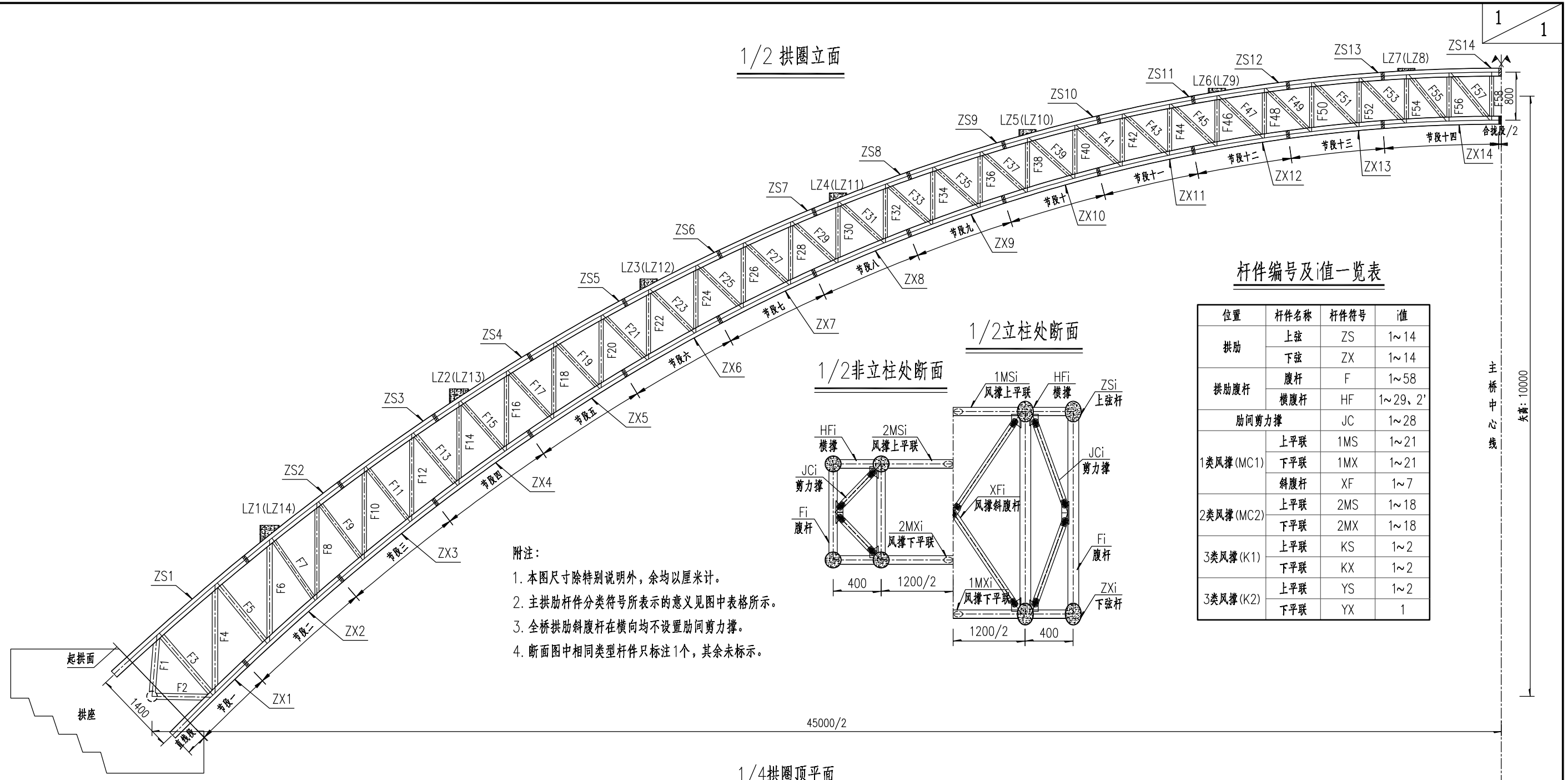


1/4拱圈底平面

附注：

1. 本图尺寸除钢管规格以毫米计外,余均以厘米计。
2. 主拱圈拱轴线采用悬链线,计算跨径 $L=450\text{m}$,计算矢高 $f=100\text{m}$,计算矢跨比 $f/L=1/4.5$,拱轴系数 $m=1.55$ 。
3. 拱圈桁高采用变高形式,拱顶 8m 、拱脚 14m ,均指上弦中心线到下弦中心线间距离,高度变化采用2次幂抛物线。
4. 主拱圈钢管规格:拱肋上、下弦采用 $\Phi 1360(35、32、28)$,竖、斜腹杆采用 $\Phi 900\times 24、\Phi 700\times 24、\Phi 700\times 18$ 三种规格,铰轴斜腹杆采用 $\Phi 1000\times 24$,肋间横撑采用 $\Phi 700\times 16、\Phi 900\times 20$ 。
5. 全桥风撑分为3类:(1)立柱处米字撑,编号MC11~MC17;(2)节间内米字撑,编号MC21~MC26;(3)K撑,拱顶编号K1,拱脚编号K2。1、2类风撑编号均为从拱脚到拱顶依次增大。风撑斜腹杆采用焊接工字钢,风撑其他杆件均采用圆形钢管,杆件具体尺寸详见拱肋节段构造图。
6. 全桥竖腹杆内设置横向剪力撑,剪力撑采用焊接工字钢,斜腹杆均不设。
7. 管内混凝土:上、下弦杆内灌注C60自密实微膨胀混凝土,拱脚处与铰轴相连两斜腹杆及铰轴钢管内灌注C60自密实微膨胀混凝土,立柱LZ1~LZ3,LZ12~LZ14内部分灌注C50砼,其余立柱不灌注混凝土,灌注混凝土应具有低泡、大流动性、收缩补偿、延后初凝和早强的工程性能。
8. 主拱圈每半跨拱肋分14个节段,全桥共56个节段加拱顶合龙段,拱肋对接接头采用内法兰盘连接,管外焊接,肋间风撑与拱肋采用焊接。

1/2 拱圈立面



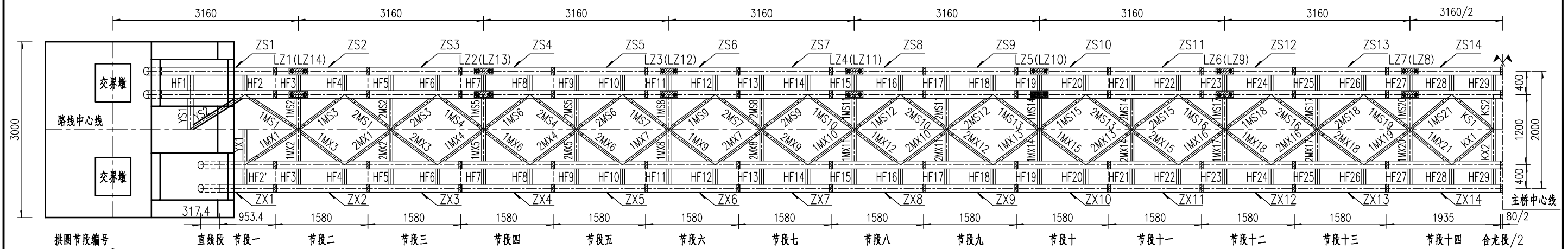
杆件编号及*i*值一览表

位置	杆件名称	杆件符号	值
拱肋	上弦	ZS	1~14
	下弦	ZX	1~14
拱肋腹杆	腹杆	F	1~58
	横腹杆	HF	1~29、2'
肋间剪力撑		JC	1~28
1类风撑(MC1)	上平联	1MS	1~21
	下平联	1MX	1~21
	斜腹杆	XF	1~7
2类风撑(MC2)	上平联	2MS	1~18
	下平联	2MX	1~18
3类风撑(K1)	上平联	KS	1~2
	下平联	KX	1~2
3类风撑(K2)	上平联	YS	1~2
	下平联	YX	1

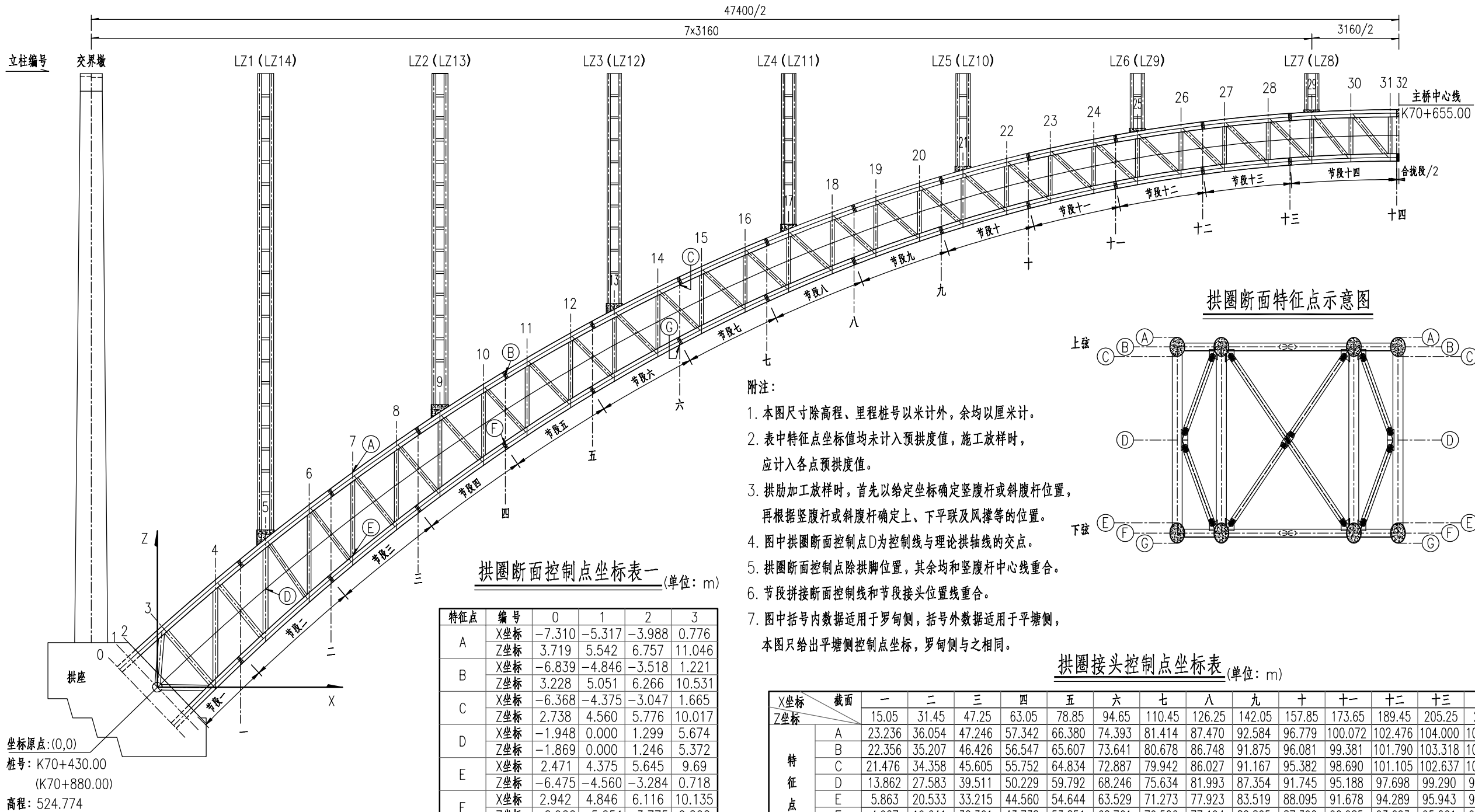
主桥中心线

矢高: 10000

1/4拱圈顶平面

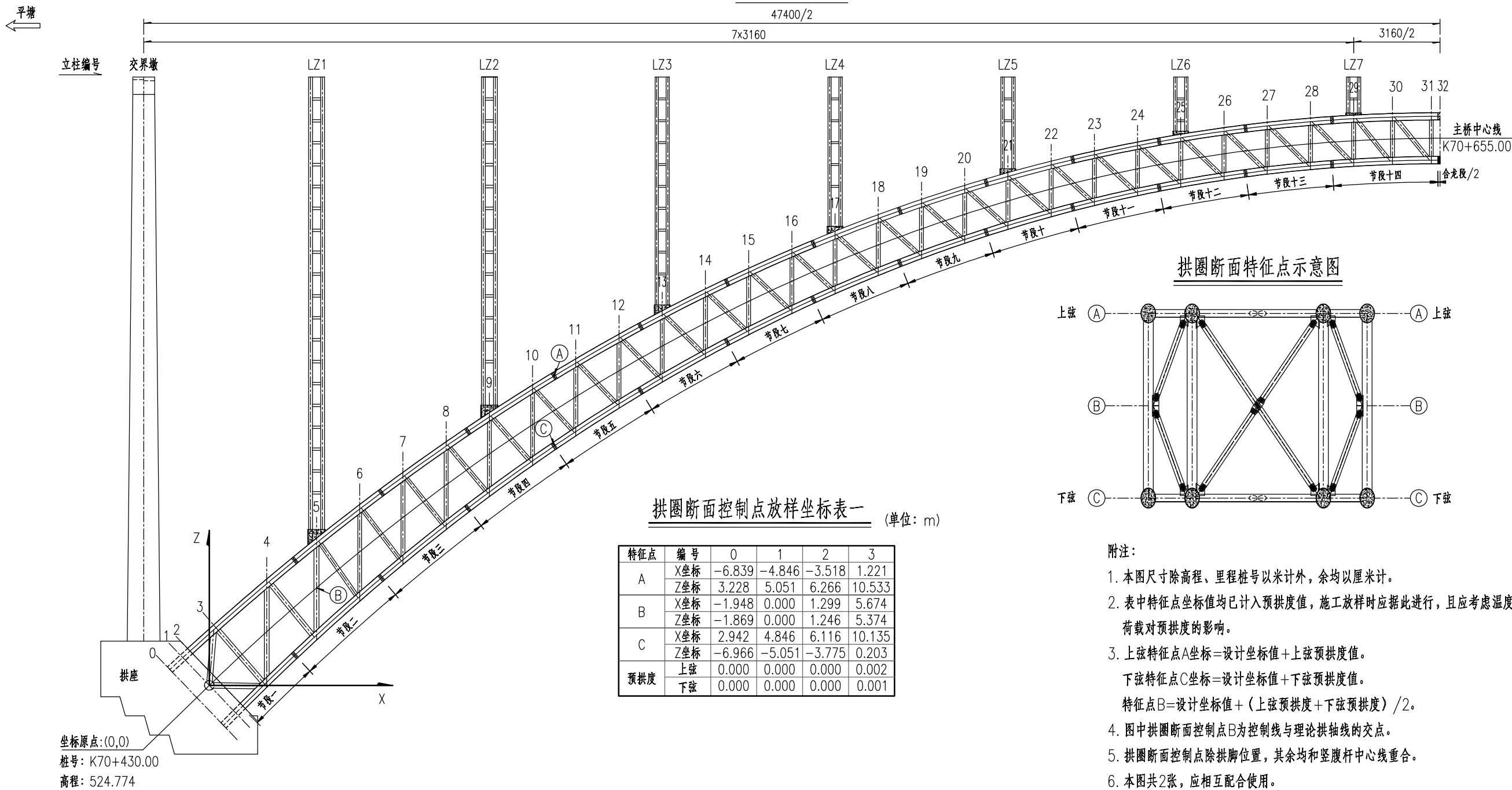


1/4拱圈底平面



拱圈断面控制点坐标表二 (单位: m)

X坐标 Z坐标	截面	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
		10.5	19.6	27.5	35.4	43.3	51.2	59.1	67.0	74.9	82.8	90.7	98.6	106.5	114.4	122.3	130.2	138.1	146.0	153.9	161.8	169.7	177.6	185.5	193.4	201.3	209.2	216.3	223.4	225.0
特征点	A	19.456	26.917	33.081	38.958	44.552	49.871	54.919	59.699	64.218	68.478	72.484	76.240	79.750	83.017	86.045	88.836	91.393	93.719	95.816	97.687	99.332	100.755	101.957	102.939	103.701	104.245	104.548	104.675	104.680
	B	18.567	26.048	32.226	38.117	43.726	49.058	54.118	58.911	63.440	67.710	71.726	75.492	79.010	82.285	85.320	88.118	90.681	93.013	95.115	96.990	98.640	100.066	101.271	102.254	103.019	103.564	103.867	103.995	104.000
	C	17.677	25.176	31.369	37.275	42.899	48.244	53.316	58.120	62.661	66.942	70.968	74.743	78.270	81.553	84.595	87.400	89.969	92.306	94.413	96.293	97.947	99.377	100.584	101.570	102.336	102.883	103.187	103.315	103.320
	D	9.800	17.808	24.405	30.681	36.644	42.301	47.660	52.726	57.506	62.007	66.233	70.191	73.884	77.318	80.498	83.425	86.106	88.542	90.737	92.694	94.415	95.902	97.158	98.183	98.978	99.546	99.862	99.995	100.000
	E	1.507	10.093	17.143	23.833	30.173	36.174	41.845	47.197	52.237	56.975	61.417	65.571	69.442	73.036	76.361	79.419	82.217	84.758	87.045	89.083	90.874	92.421	93.726	94.791	95.618	96.208	96.537	96.675	96.680
	F	0.558	9.169	16.242	22.951	29.309	35.327	41.016	46.383	51.438	56.188	60.643	64.808	68.690	72.294	75.627	78.694	81.499	84.046	86.340	88.383	90.179	91.730	93.038	94.106	94.936	95.527	95.856	95.995	96.000
	G	-0.392	8.246	15.338	22.068	28.446	34.481	40.185	45.568	50.637	55.401	59.868	64.044	67.937	71.551	74.894	77.969	80.781	83.335	85.635	87.683	89.484	91.039	92.351	93.421	94.253	94.846	95.176	95.315	95.320



拱圈断面控制点放样坐标表二 (单位: m)

截面		4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
X坐标		10.5	19.6	27.5	35.4	43.3	51.2	59.1	67.0	74.9	82.8	90.7	98.6	106.5	114.4	122.3	130.2	138.1	146	153.9	161.8	169.7	177.6	185.5	193.4	201.3	209.2	216.3	223.4	225
特征点	A	18.578	26.074	32.273	38.188	43.824	49.186	54.278	59.106	63.672	67.98	72.036	75.843	79.402	82.718	85.793	88.631	91.232	93.6	95.735	97.641	99.32	100.771	101.997	102.998	103.777	104.332	104.641	104.771	104.776
	B	9.809	17.832	24.449	30.750	36.740	42.427	47.818	52.919	57.736	62.276	66.541	70.540	74.275	77.750	80.970	83.937	86.656	89.128	91.356	93.345	95.094	96.607	97.884	98.927	99.736	100.314	100.636	100.771	100.776
	C	0.564	9.19	16.283	23.017	29.402	35.451	41.172	46.574	51.666	56.455	60.949	65.155	69.079	72.724	76.097	79.204	82.047	84.631	86.958	89.033	90.857	92.434	93.763	94.849	95.694	96.295	96.63	96.771	96.776
预拱度	上弦	0.011	0.026	0.047	0.071	0.098	0.128	0.160	0.195	0.232	0.270	0.310	0.351	0.392	0.433	0.473	0.513	0.551	0.587	0.620	0.651	0.680	0.705	0.726	0.744	0.758	0.768	0.774	0.776	0.776
	下弦	0.006	0.021	0.041	0.066	0.093	0.124	0.156	0.191	0.228	0.267	0.306	0.347	0.389	0.430	0.470	0.510	0.548	0.585	0.618	0.650	0.678	0.704	0.725	0.743	0.758	0.768	0.774	0.776	0.776

1/2 拱圈立面

2/2

