



























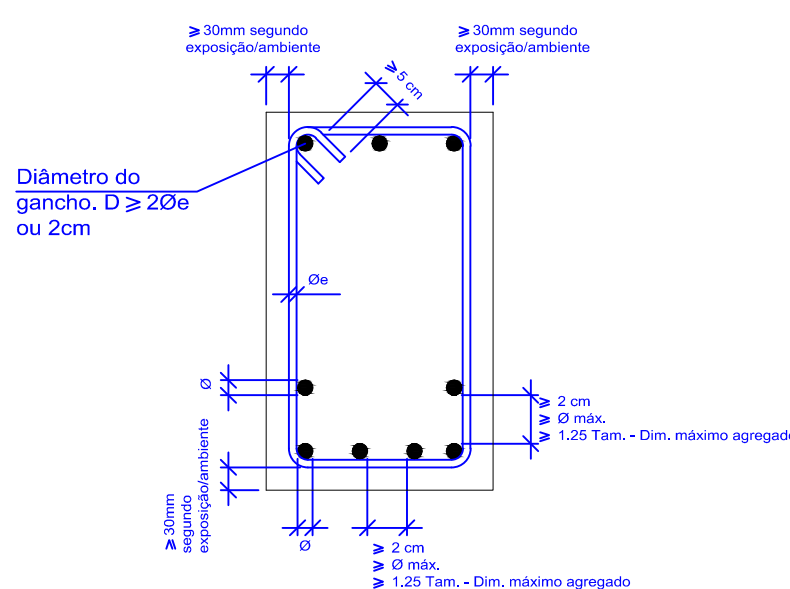
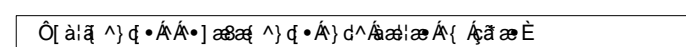
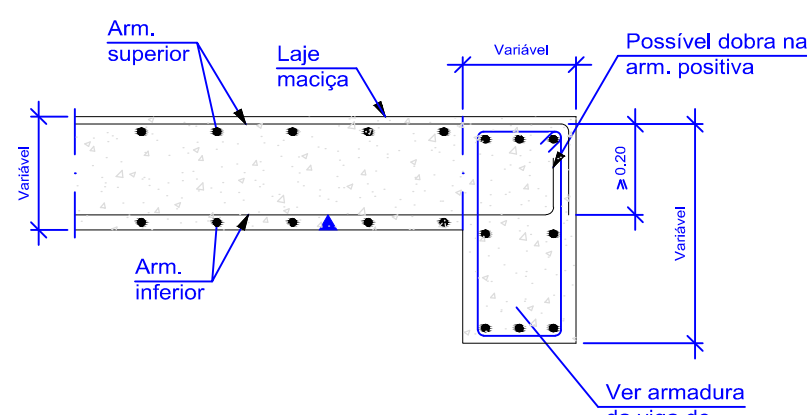
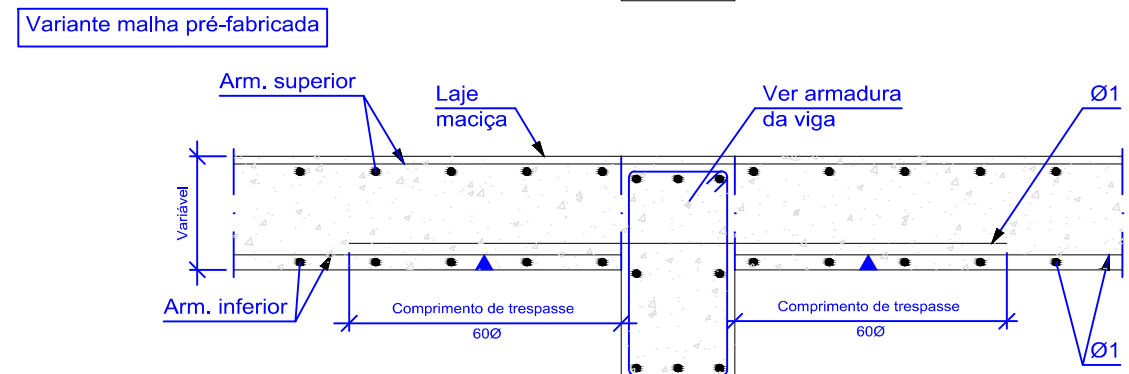
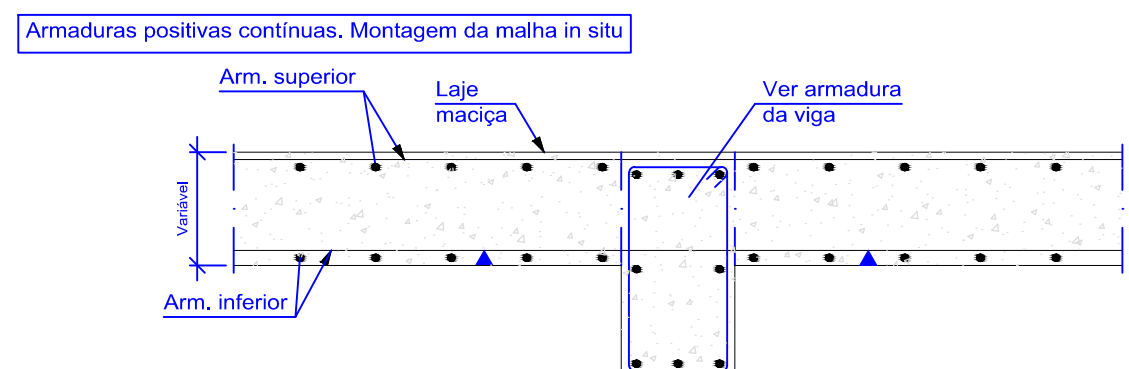
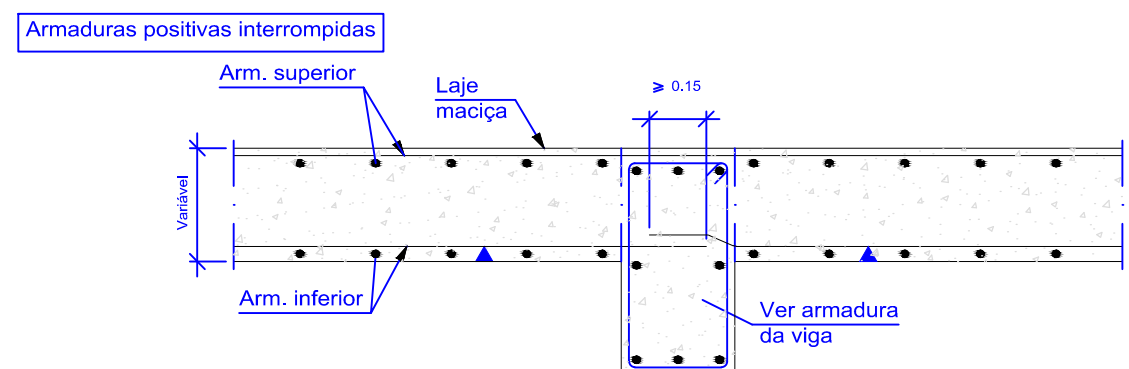


Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 1	1	Ø8	8		150	175	1400	5,5
	2	Ø8	4		360	340	1360	5,4
	3	Ø5	4		310	310	1240	
	4	Ø6,3	4		598	623	2492	6,1
	5	Ø10	4		470	470	1880	11,6
	6	Ø5	62			106	6572	
	Total-10%-						31,5	10,3
V 2	1	Ø8	4		140	165	660	2,6
	2	Ø8	4		340	340	1360	5,4
	3	Ø8	4		150	175	700	2,8
	4	Ø5	2		320	320	640	
	5	Ø5	2		310	310	620	
	6	Ø6,3	4		598	623	2492	6,1
	7	Ø10	2		450	450	900	5,5
	8	Ø10	2		435	435	870	5,4
	9	Ø5	62			106	6572	
	Total-10%-						30,6	13,5
V 3	1	Ø12,5	1		570	595	595	5,7
	2	Ø6,3	2		205	230	460	1,1
	3	Ø10	2		605	630	1260	7,8
	4	Ø5	2		200	200	400	
	5	Ø10	2		245	270	540	3,3
	6	Ø12,5	2		1004	1054	2108	20,3
	7	Ø5	53			106	5618	
	Total-10%-						42,0	10,3
V 4	1	Ø10	3		695	630	1890	11,6
	2	Ø6,3	2		205	230	460	1,1
	3	Ø5	2		200	200	400	
	4	Ø10	2		245	270	540	3,3
	5	Ø12,5	2		1004	1054	2108	20,3
	6	Ø5	52			106	5512	
	Total-10%-						39,9	10,2

Resumo Aço Desenho de vigas	Comp. total (m)	Peso+10% (kg)	Total
CA-50 Ø6.3	59.0	16	144
Ø8	54.8	24	
Ø10	78.8	53	
Ø12.5	48.1	51	
CA-60 Ø5	275.7	48	48
Total			192

CAIXA D'AGUA
Desenho de vigas
Concreto: C40, usina.rigor
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:50
Escala seções 1:25
Escala aberturas 1:25



BITOLA (mm)	TIPO DE AÇO		
	CA-25	CA-50	CA-60
≤ 10	3Øt	3Øt	3Øt
10 < Ø ≤ 20	4Øt	5Øt	-
≥ 20	5Øt	8Øt	-

BITOLA mm	TIPO DE AÇO		
	CA-25	CA-50	CA-60
<20	4Ø	5Ø	6Ø
≥20	5Ø	8Ø	-



<p> 1- COBRIMENTO DAS ARMADURAS : <div> 0,04m (40mm) <div> VIGAS E PILARES = 3,0 cm LAJES = 2,5 cm </div> </div> </p> <p> 2- CLASSE DE AGRESSIVIDADE AMBIENTAL - II - (MODERADA) </p> <p> 3- <div> CONCRETO - CLASSE C40 <div> CA-60 </div> </div> </p> <p> 4- <div> NOMINAIS DAS ARMADURAS. <div> Ø10-Ø12-Ø14-Ø16-Ø18-Ø20-Ø22-Ø25-Ø28-Ø30-Ø32-Ø36-Ø40-Ø44-Ø48-Ø52-Ø56-Ø60-Ø64-Ø68-Ø72-Ø76-Ø80-Ø84-Ø88-Ø92-Ø96-Ø100-Ø104-Ø108-Ø112-Ø116-Ø120-Ø124-Ø128-Ø132-Ø136-Ø140-Ø144-Ø148-Ø152-Ø156-Ø160-Ø164-Ø168-Ø172-Ø176-Ø180-Ø184-Ø188-Ø192-Ø196-Ø200-Ø204-Ø208-Ø212-Ø216-Ø220-Ø224-Ø228-Ø232-Ø236-Ø240-Ø244-Ø248-Ø252-Ø256-Ø260-Ø264-Ø268-Ø272-Ø276-Ø280-Ø284-Ø288-Ø292-Ø296-Ø300-Ø304-Ø308-Ø312-Ø316-Ø320-Ø324-Ø328-Ø332-Ø336-Ø340-Ø344-Ø348-Ø352-Ø356-Ø360-Ø364-Ø368-Ø372-Ø376-Ø380-Ø384-Ø388-Ø392-Ø396-Ø400-Ø404-Ø408-Ø412-Ø416-Ø420-Ø424-Ø428-Ø432-Ø436-Ø440-Ø444-Ø448-Ø452-Ø456-Ø460-Ø464-Ø468-Ø472-Ø476-Ø480-Ø484-Ø488-Ø492-Ø496-Ø500-Ø504-Ø508-Ø512-Ø516-Ø520-Ø524-Ø528-Ø532-Ø536-Ø540-Ø544-Ø548-Ø552-Ø556-Ø560-Ø564-Ø568-Ø572-Ø576-Ø580-Ø584-Ø588-Ø592-Ø596-Ø600-Ø604-Ø608-Ø612-Ø616-Ø620-Ø624-Ø628-Ø632-Ø636-Ø640-Ø644-Ø648-Ø652-Ø656-Ø660-Ø664-Ø668-Ø672-Ø676-Ø680-Ø684-Ø688-Ø692-Ø696-Ø700-Ø704-Ø708-Ø712-Ø716-Ø720-Ø724-Ø728-Ø732-Ø736-Ø740-Ø744-Ø748-Ø752-Ø756-Ø760-Ø764-Ø768-Ø772-Ø776-Ø780-Ø784-Ø788-Ø792-Ø796-Ø800-Ø804-Ø808-Ø812-Ø816-Ø820-Ø824-Ø828-Ø832-Ø836-Ø840-Ø844-Ø848-Ø852-Ø856-Ø860-Ø864-Ø868-Ø872-Ø876-Ø880-Ø884-Ø888-Ø892-Ø896-Ø900-Ø904-Ø908-Ø912-Ø916-Ø920-Ø924-Ø928-Ø932-Ø936-Ø940-Ø944-Ø948-Ø952-Ø956-Ø960-Ø964-Ø968-Ø972-Ø976-Ø980-Ø984-Ø988-Ø992-Ø996-Ø1000-Ø1004-Ø1008-Ø1012-Ø1016-Ø1020-Ø1024-Ø1028-Ø1032-Ø1036-Ø1040-Ø1044-Ø1048-Ø1052-Ø1056-Ø1060-Ø1064-Ø1068-Ø1072-Ø1076-Ø1080-Ø1084-Ø1088-Ø1092-Ø1096-Ø1100-Ø1104-Ø1108-Ø1112-Ø1116-Ø1120-Ø1124-Ø1128-Ø1132-Ø1136-Ø1140-Ø1144-Ø1148-Ø1152-Ø1156-Ø1160-Ø1164-Ø1168-Ø1172-Ø1176-Ø1180-Ø1184-Ø1188-Ø1192-Ø1196-Ø1200-Ø1204-Ø1208-Ø1212-Ø1216-Ø1220-Ø1224-Ø1228-Ø1232-Ø1236-Ø1240-Ø1244-Ø1248-Ø1252-Ø1256-Ø1260-Ø1264-Ø1268-Ø1272-Ø1276-Ø1280-Ø1284-Ø1288-Ø1292-Ø1296-Ø1300-Ø1304-Ø1308-Ø1312-Ø1316-Ø1320-Ø1324-Ø1328-Ø1332-Ø1336-Ø1340-Ø1344-Ø1348-Ø1352-Ø1356-Ø1360-Ø1364-Ø1368-Ø1372-Ø1376-Ø1380-Ø1384-Ø1388-Ø1392-Ø1396-Ø1400-Ø1404-Ø1408-Ø1412-Ø1416-Ø1420-Ø1424-Ø1428-Ø1432-Ø1436-Ø1440-Ø1444-Ø1448-Ø1452-Ø1456-Ø1460-Ø1464-Ø1468-Ø1472-Ø1476-Ø1480-Ø1484-Ø1488-Ø1492-Ø1496-Ø1500-Ø1504-Ø1508-Ø1512-Ø1516-Ø1520-Ø1524-Ø1528-Ø1532-Ø1536-Ø1540-Ø1544-Ø1548-Ø1552-Ø1556-Ø1560-Ø1564-Ø1568-Ø1572-Ø1576-Ø1580-Ø1584-Ø1588-Ø1592-Ø1596-Ø1600-Ø1604-Ø1608-Ø1612-Ø1616-Ø1620-Ø1624-Ø1628-Ø1632-Ø1636-Ø1640-Ø1644-Ø1648-Ø1652-Ø1656-Ø1660-Ø1664-Ø1668-Ø1672-Ø1676-Ø1680-Ø1684-Ø1688-Ø1692-Ø1696-Ø1700-Ø1704-Ø1708-Ø1712-Ø1716-Ø1720-Ø1724-Ø1728-Ø1732-Ø1736-Ø1740-Ø1744-Ø1748-Ø1752-Ø1756-Ø1760-Ø1764-Ø1768-Ø1772-Ø1776-Ø1780-Ø1784-Ø1788-Ø1792-Ø1796-Ø1800-Ø1804-Ø1808-Ø1812-Ø1816-Ø1820-Ø1824-Ø1828-Ø1832-Ø1836-Ø1840-Ø1844-Ø1848-Ø1852-Ø1856-Ø1860-Ø1864-Ø1868-Ø1872-Ø1876-Ø1880-Ø1884-Ø1888-Ø1892-Ø1896-Ø1900-Ø1904-Ø1908-Ø1912-Ø1916-Ø1920-Ø1924-Ø1928-Ø1932-Ø1936-Ø1940-Ø1944-Ø1948-Ø1952-Ø1956-Ø1960-Ø1964-Ø1968-Ø1972-Ø1976-Ø1980-Ø1984-Ø1988-Ø1992-Ø1996-Ø2000-Ø2004-Ø2008-Ø2012-Ø2016-Ø2020-Ø2024-Ø2028-Ø2032-Ø2036-Ø2040-Ø2044-Ø2048-Ø2052-Ø2056-Ø2060-Ø2064-Ø2068-Ø2072-Ø2076-Ø2080-Ø2084-Ø2088-Ø2092-Ø2096-Ø2100-Ø2104-Ø2108-Ø2112-Ø2116-Ø2120-Ø2124-Ø2128-Ø2132-Ø2136-Ø2140-Ø2144-Ø2148-Ø2152-Ø2156-Ø2160-Ø2164-Ø2168-Ø2172-Ø2176-Ø2180-Ø2184-Ø2188-Ø2192-Ø2196-Ø2200-Ø2204-Ø2208-Ø2212-Ø2216-Ø2220-Ø2224-Ø2228-Ø2232-Ø2236-Ø2240-Ø2244-Ø2248-Ø2252-Ø2256-Ø2260-Ø2264-Ø2268-Ø2272-Ø2276-Ø2280-Ø2284-Ø2288-Ø2292-Ø2296-Ø2300-Ø2304-Ø2308-Ø2312-Ø2316-Ø2320-Ø2324-Ø2328-Ø2332-Ø2336-Ø2340-Ø2344-Ø2348-Ø2352-Ø2356-Ø2360-Ø2364-Ø2368-Ø2372-Ø2376-Ø2380-Ø2384-Ø2388-Ø2392-Ø2396-Ø2400-Ø2404-Ø2408-Ø2412-Ø2416-Ø2420-Ø2424-Ø2428-Ø2432-Ø2436-Ø2440-Ø2444-Ø2448-Ø2452-Ø2456-Ø2460-Ø2464-Ø2468-Ø2472-Ø2476-Ø2480-Ø2484-Ø2488-Ø2492-Ø2496-Ø2500-Ø2504-Ø2508-Ø2512-Ø2516-Ø2520-Ø2524-Ø2528-Ø2532-Ø2536-Ø2540-Ø2544-Ø2548-Ø2552-Ø2556-Ø2560-Ø2564-Ø2568-Ø2572-Ø2576-Ø2580-Ø2584-Ø2588-Ø2592-Ø2596-Ø2600-Ø2604-Ø2608-Ø2612-Ø2616-Ø2620-Ø2624-Ø2628-Ø2632-Ø2636-Ø2640-Ø2644-Ø2648-Ø2652-Ø2656-Ø2660-Ø2664-Ø2668-Ø2672-Ø2676-Ø2680-Ø2684-Ø2688-Ø2692-Ø2696-Ø2700-Ø2704-Ø2708-Ø2712-Ø2716-Ø2720-Ø2724-Ø2728-Ø2732-Ø2736-Ø2740-Ø2744-Ø2748-</div></div></p>
--

[illegible]

EMPRESA

TERA
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(71) 3240-9357

ÜÖÛÚUÞÛ7XÖŠÄŸ ÖÞÖÛ



PREFEITURA MUNICIPAL DE SANTA LUZIA
ADM. DELEGADO CHRISTIANO XAVIER

UÓŪœÞÖÜÖ° U

UBS VIRGEM DOS POBRES
RUA SÃO JUDAS TADEU S/N, SÃO BENEDITO - SANTA LUZIA/MG

ÖÖPUT QÆ ¶UAÖUÄÖÜÖPÜ ESTRUTURAL

DETALHE DE VIGAS 13

ANTONIO DE MELO PRADO CREA : 23.141-D/MG

FOLHA

EST-43/44

DATA : EEV/2020

DATA: 15/07/2020
ESCALA: INDICADA
UÜÖÖT ÄÖÖÜÖÜXQ UÄÖÖ
10/2019

FASE
PROJETO EXECUTIVO

DESENHO

TERA

ARQUIVO

UBS-ES-PE-09-VIG-R05