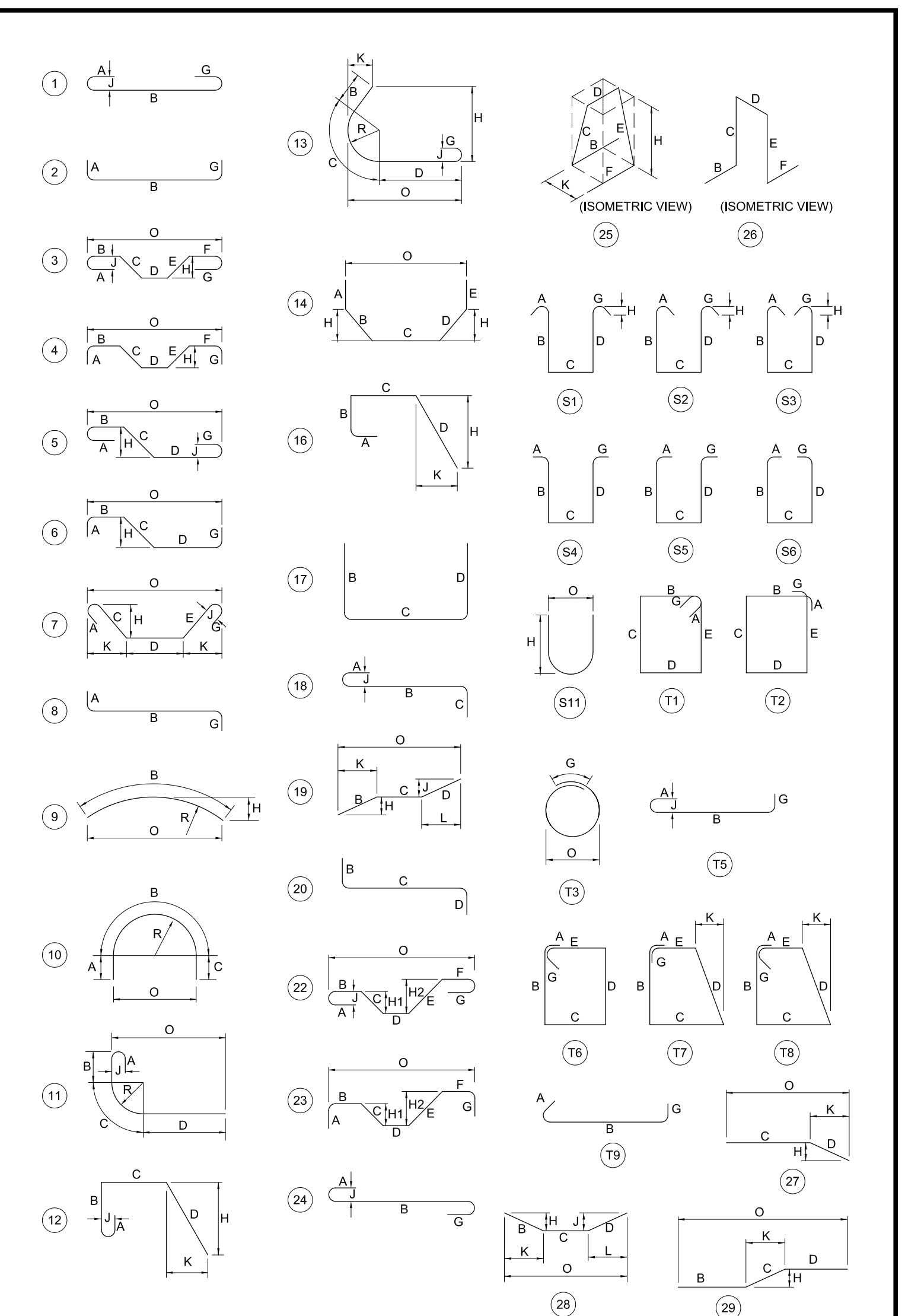


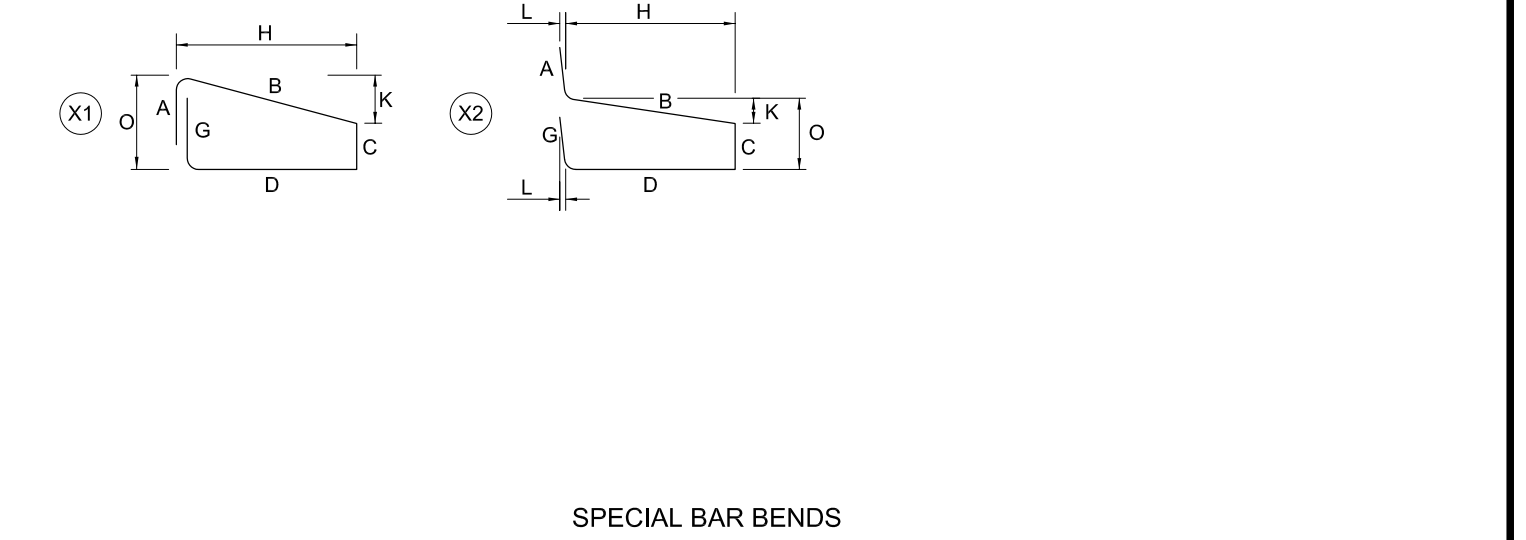
MARKS	NO BARS	SIZE	LENGTH	TYPE	A	B	C	D	E	F	G	H	J	K	L	M	O	R	SHAPE	MASS (kg)
ABUTMENT - FOR TWO ABUTMENTS																				
A1601S	92	16	2030	2	900	295					900									293.20
A1602S	92	16	1400	27			1000	400				285		285			1285			202.20
A1901S	12	19	7250	STR																204.90
A1501G	4	15	1030	STR																6.50
A1502G	4	15	1110	STR																7.00
A1503G	4	15	1190	STR																7.50
A1504G	4	15	1290	STR																8.10
A1505G	4	15	1380	STR																8.70
A1506G	4	15	1480	STR																9.30
A1507G	4	15	1570	STR																9.90
A1508G	4	15	1660	STR																10.40
A1509G	4	15	1760	STR																11.10
A1510G	4	15	1830	STR																11.50
A1511G	4	15	1000	STR																6.30
A1512G	4	15	1110	STR																7.00
A1513G	4	15	1220	STR																7.70
A1514G	4	15	1340	STR																8.40
A1515G	4	15	1450	STR																9.10
A1516G	4	15	1570	STR																9.90
A1517G	4	15	1680	STR																10.60
A1518G	4	15	1800	STR																11.30
A1519G	184	15	2980	2	1110	860					1110									860.90
A1520G	26	15	2520	2	400	1790					400									102.90
A2001G	80	20	3710	2	1280	1200					1280									699.00
A2002G	80	20	3710	2	1280	1200					1280									699.00
A2003G	20	20	2930	2	600	1860					600									138.00
A2004G	10	20	6540	STR																154.00
A2005G	8	20	7200	STR																135.60
A2006G	20	20	4860	STR																228.90
A2007G	20	20	9320	STR																439.00
A2008G	28	20	2500	STR																164.90
A2009G	28	20	2010	STR																132.50
A2010G	90	20	1180	2	500	260					500									250.10
A2011G	16	20	5060	STR																190.70
A2012G	16	20	9730	STR																366.60
A2012G	16	20	1890	2	600	860					600									71.20
A2013G	56	20	1500	STR																197.80
A2501G	36	25	5260	2	4860	400					0									743.20
A2501G	36	25	9720	2	9320	400					0									1373.40
A2503G	24	25	5060	STR																476.70
A2504G	24	25	9730	STR																916.60
TOTAL																				9201.60

MARKS	NO BARS	SIZE	LENGTH	TYPE	A	B	C	D	E	F	G	H	J	K	L	M	O	R	SHAPE	MASS (kg)
PIER																				
P1501G	63	15	3830	T3																378.83
P1502G	54	15	1360	STR																115.30
P2001G	52	20	4520	2	830	2860					830									553.52
P2002G	72	20	2260	2	830	600					830									383.21
P2003G	8	20	900	2	450	450					0									16.96
P2004G	4	20	3760	2	450	2860					450									35.42
P2005G	4	20	8360	STR																78.75
P2006G	104	20	2770	2	900	970					900									678.43
P2007G	7	20	3955	STR																65.20
P2008G	8	20	4540	S11								1880								85.53
P2501G	8	25	6690	STR																210.07
P3001G	26	30	9380	2	8360	510					510									1340.12
P3002G	60	30	3750	2	3300	450					0									1236.38
P3003G	60	30	7185	STR																2368.89
P3004G	56	30	5310	2	4800	510					0									1633.99
ROOF/APPROACH SLAB - FOR TWO OF EACH																				
S1601S	64	16	5120	STR																514.46
S1602S	64	16	10235	STR																1028.41
S1603S	64	16	5330	1	60	5120					0		150							535.56
S1604S	64	16	10445	1	60	10235					0		150							1049.51
S1605S	56	16	4860	STR																427.29
S1606S	56	16	9720	STR																854.58
S1607S	56	16	5070	1	60	4860					0		150							445.75
S1608S	56	16	9930	1	60	9720					0		150							873.05
S1609S	385	16	1560	T1	90	420	270	420	270		90									942.94
S1610S	280	16	2325	X2	250	775	285	765			250	765	130	15					415	1022.07
S1611S	280	16	2665	X1	250	1060	190	1045			250	1045	180						370	1171.53
S1612S	96	16	2230	STR																336.11
S1613S	96	16	1865	STR																281.09
S1901S	198	19	4580	STR																2135.61
S1902S	188	19	3965	STR																1755.46
S1903S	112	19	3140	1	140	2800					0		200							828.21
S2501S	198	25	4930	1	100	4580					0		250							3831.35
S2502S	188	25	4315	1	100	3965					0		250							3184.04
TOTAL																				21217.02

TOTAL MASS OF REINFORCING STEEL = 39599.2 kg



A.C.I. - TYPICAL BAR BENDS

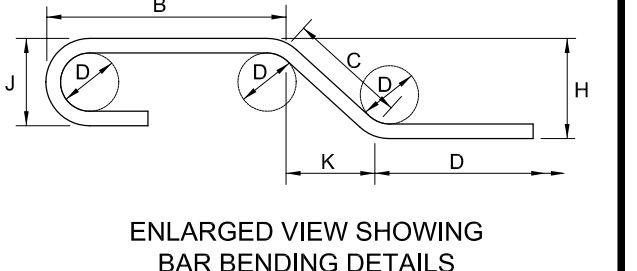


SPECIAL BAR BENDS

NOTES:

- ALL DIMENSIONS ARE OUT-TO-OUT OF A BAR EXCEPT 'A' AND 'G' ON STANDARD 180° AND 135° HOOKS.
- 'J' DIMENSION ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
- ON TRUSS BARS 'J' WILL BE KEPT EQUAL TO OR LESS THEN 'H', WHERE 'J' CAN EXCEED 'H' IT SHOULD BE SHOWN.
- THE STIRRUPS 'H' DIMENSION SHOULD BE SHOWN ONLY WHERE NECESSARY TO FIT WITHIN CONCRETE.
- CRITICAL DIMENSIONS ARE TO BE IDENTIFIED WHERE BARS ARE TO BE BENT MORE ACCURATELY THAN STANDARD BENDING TOLERANCES.
- ON TYPE T3 'G' DIMENSION IS EQUAL TO CLASS C SPLICE.
- FIGURES SHOWN IN CIRCLES SHOW TYPES.
- ALL BAR BENDS OTHER THAN THE TYPES SHOWN ABOVE MUST BE DESIGNATED TYPE 'X'.

UNLESS OTHERWISE NOTED DIAMETER 'D' IS THE SAME FOR ALL HOOKS AND BENDS ON A BAR.



ENLARGED VIEW SHOWING BAR BENDING DETAILS

G:\CAD\126606\Contract\contract\_2\Current\Struct\_Reinforcing\_Steel\_Schedule - Abutment - Pier - Roof Slab - Approach Slab.dwg

**APEGM**  
Certificate of Authorization  
**Dillon Consulting Limited (MB)**  
No. 1789 Date: 2013/08/01

UNDERGROUND STRUCTURES	B.M. ELEV.	DESIGNED BY	KGW
SUPV. U/G STRUCTURES COMMITTEE	DATE	DRAWN BY	