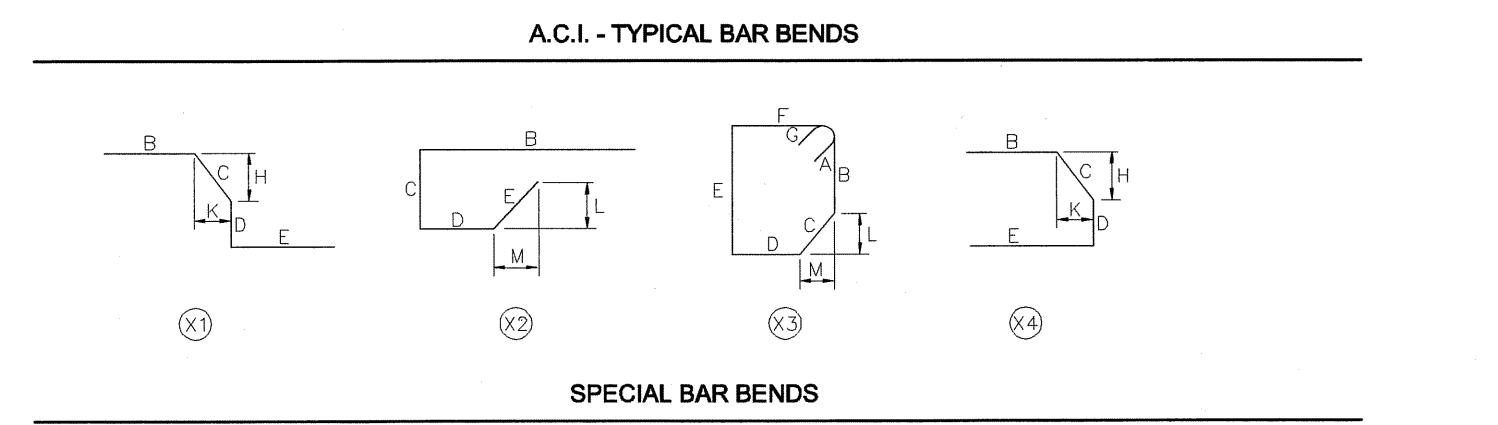
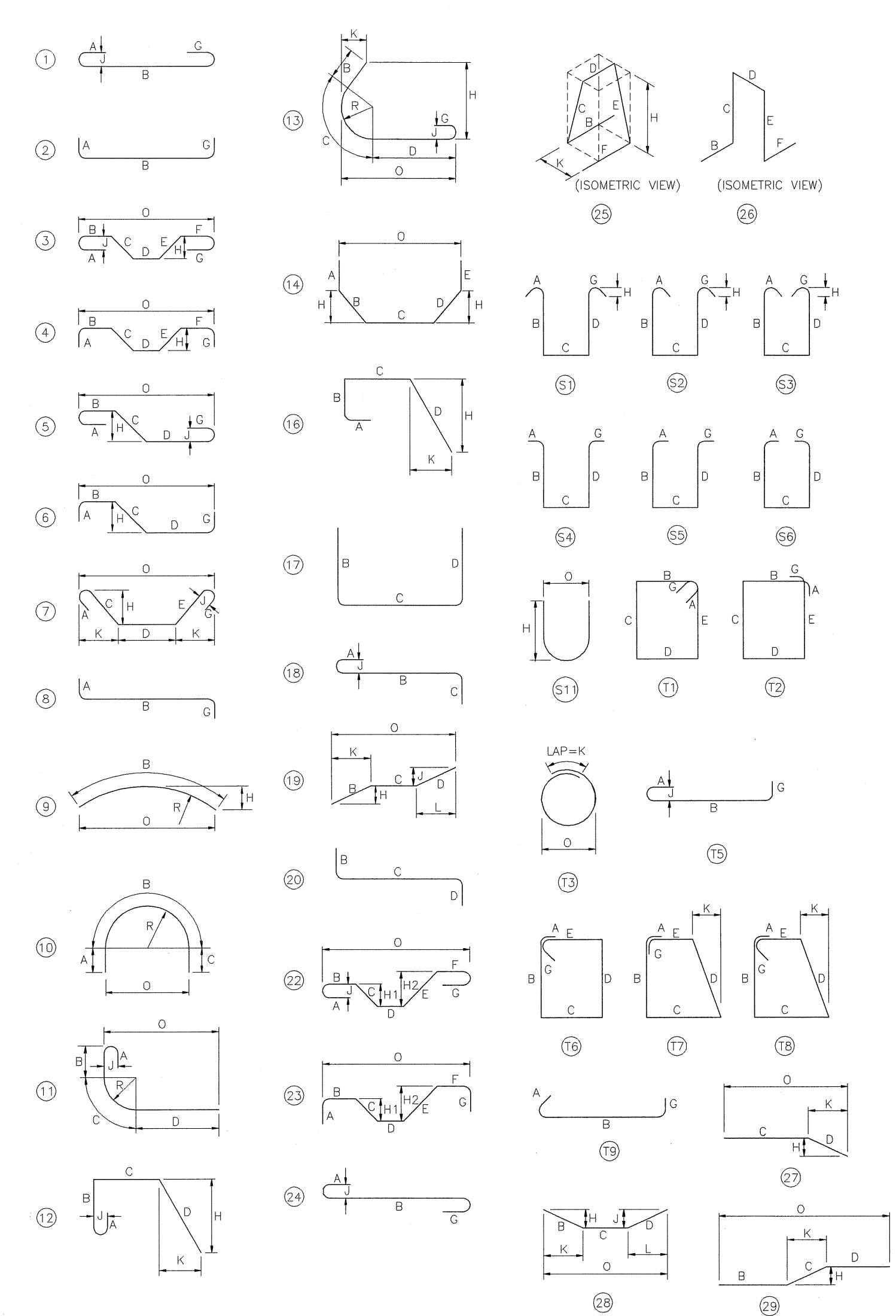


D SIZE 22" x 34" (559mm x 864mm)

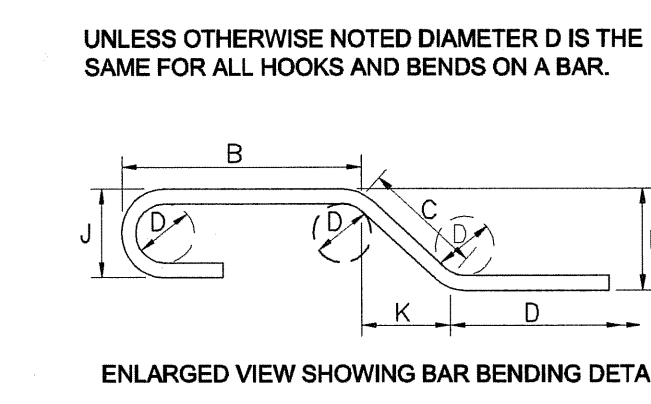
| MARKS                                 | NO BARS | SIZE | LENGTH | TYPE | A   | B    | C    | D    | E    | F | G   | H    | J   | K   | L   | M | O    | R    | SHAPE | MASS (kg) |
|---------------------------------------|---------|------|--------|------|-----|------|------|------|------|---|-----|------|-----|-----|-----|---|------|------|-------|-----------|
| <b>PIER #2 ENCASEMENT (CONTINUED)</b> |         |      |        |      |     |      |      |      |      |   |     |      |     |     |     |   |      |      |       |           |
| M15108                                | 2       | 15   | 2735   | 17   |     | 250  | 2235 | 250  |      |   |     |      |     |     |     |   |      |      |       | 8.6       |
| M15109                                | 1       | 15   | 2790   | 17   |     | 250  | 2290 | 250  |      |   |     |      |     |     |     |   |      |      |       | 4.4       |
| M15110                                | 1       | 15   | 2820   | 17   |     | 250  | 2320 | 250  |      |   |     |      |     |     |     |   |      |      |       | 4.4       |
| M15111                                | 3       | 15   | 2450   | 14   |     | 1225 |      | 1225 |      |   |     | 870  |     |     |     |   |      | 1731 |       | 11.5      |
| M15112                                | 1       | 15   | 2540   | 14   |     | 1270 |      | 1270 |      |   |     | 895  |     |     |     |   |      | 1800 |       | 4.0       |
| M15113                                | 2       | 15   | 1675   | 27   |     |      | 1075 | 600  |      |   |     | 240  |     | 550 |     |   |      | 1625 |       | 5.3       |
| M15114                                | 2       | 15   | 1610   | 27   |     |      | 1010 | 600  |      |   |     | 240  |     | 550 |     |   |      | 1560 |       | 5.1       |
| M15115                                | 2       | 15   | 1550   | 27   |     |      | 950  | 600  |      |   |     | 240  |     | 550 |     |   |      | 1500 |       | 4.9       |
| M15116                                | 2       | 15   | 1500   | 27   |     |      | 900  | 600  |      |   |     | 240  |     | 550 |     |   |      | 1450 |       | 4.7       |
| M15117                                | 1       | 15   | 1440   | 27   |     |      | 840  | 600  |      |   |     | 240  |     | 550 |     |   |      | 1390 |       | 2.3       |
| <b>PIER #2 PEDESTALS</b>              |         |      |        |      |     |      |      |      |      |   |     |      |     |     |     |   |      |      |       |           |
| M20002                                | 16      | 20   | 420    | STR  |     |      |      |      |      |   |     |      |     |     |     |   |      |      |       | 15.8      |
| M20003                                | 25      | 20   | 950    | STR  |     |      |      |      |      |   |     |      |     |     |     |   |      |      |       | 55.9      |
| M20004                                | 10      | 20   | 2500   | 17   |     |      | 2000 | 500  |      |   |     |      |     |     |     |   |      |      |       | 58.9      |
| M20005                                | 1       | 20   | 530    | STR  |     |      |      |      |      |   |     |      |     |     |     |   |      |      |       | 1.2       |
| M15118                                | 4       | 15   | 2360   | 17   |     | 600  | 1160 | 600  |      |   |     |      |     |     |     |   |      |      |       | 14.8      |
| M15119                                | 5       | 15   | 1550   | T2   | 100 | 175  | 500  | 175  | 500  |   | 100 |      |     |     |     |   |      |      |       | 12.2      |
| M15120                                | 8       | 15   | 1200   | STR  |     |      |      |      |      |   |     |      |     |     |     |   |      |      |       | 15.1      |
| M15121                                | 3       | 15   | 2460   | 17   |     | 600  | 1260 | 600  |      |   |     |      |     |     |     |   |      |      |       | 11.6      |
| M15122                                | 1       | 15   | 1660   | 17   |     | 200  | 1260 | 200  |      |   |     |      |     |     |     |   |      |      |       | 2.6       |
| M15123                                | 6       | 15   | 1300   | STR  |     |      |      |      |      |   |     |      |     |     |     |   |      |      |       | 12.2      |
| M15124                                | 4       | 15   | 4600   | T2   | 150 | 950  | 1200 | 950  | 1200 |   | 150 |      |     |     |     |   |      |      |       | 28.9      |
| M15125                                | 1       | 15   | 4800   | T2   | 150 | 950  | 1300 | 950  | 1300 |   | 150 |      |     |     |     |   |      |      |       | 7.5       |
| M15126                                | 3       | 15   | 4180   | T2   | 150 | 640  | 1300 | 640  | 1300 |   | 150 |      |     |     |     |   |      |      |       | 19.7      |
| <b>PIER #3 ENCASEMENT</b>             |         |      |        |      |     |      |      |      |      |   |     |      |     |     |     |   |      |      |       |           |
| K20001                                | 218     | 20   | 1000   | 17   |     |      | 900  | 100  |      |   |     |      |     |     |     |   |      |      |       | 513.4     |
| K15001                                | 20      | 15   | 6235   | 9    |     | 6810 |      |      |      |   |     | 1195 |     |     |     |   | 5545 | 3810 |       | 195.8     |
| K15002                                | 2       | 15   | 5055   | 28   |     | 500  | 4055 | 500  |      |   |     | 30   | 330 | 500 | 375 |   |      |      |       | 15.9      |
| K15003                                | 2       | 15   | 5160   | 28   |     | 500  | 4160 | 500  |      |   |     | 30   | 330 | 500 | 375 |   |      |      |       | 16.2      |
| K15004                                | 2       | 15   | 5320   | 28   |     | 500  | 4320 | 500  |      |   |     | 30   | 330 | 500 | 375 |   |      |      |       | 16.7      |
| K15005                                | 2       | 15   | 5475   | 28   |     | 500  | 4475 | 500  |      |   |     | 30   | 330 | 500 | 375 |   |      |      |       | 17.2      |
| K15006                                | 2       | 15   | 5615   | 28   |     | 500  | 4615 | 500  |      |   |     | 30   | 330 | 500 | 375 |   |      |      |       | 17.6      |

| MARKS                                 | NO BARS | SIZE | LENGTH | TYPE | A   | B    | C    | D    | E   | F | G | H    | J   | K    | L   | M   | O | R    | SHAPE | MASS (kg) |
|---------------------------------------|---------|------|--------|------|-----|------|------|------|-----|---|---|------|-----|------|-----|-----|---|------|-------|-----------|
| <b>PIER #3 ENCASEMENT (CONTINUED)</b> |         |      |        |      |     |      |      |      |     |   |   |      |     |      |     |     |   |      |       |           |
| K15007                                | 2       | 15   | 5795   | 28   |     | 500  | 4795 | 500  |     |   |   |      |     |      |     |     |   |      |       | 18.2      |
| K15008                                | 2       | 15   | 5955   | 28   |     | 500  | 4955 | 500  |     |   |   |      | 30  | 330  | 500 | 375 |   |      |       | 18.7      |
| K15009                                | 2       | 15   | 6110   | 28   |     | 500  | 5110 | 500  |     |   |   |      | 30  | 330  | 500 | 375 |   |      |       | 19.2      |
| K15010                                | 2       | 15   | 6270   | 28   |     | 500  | 5270 | 500  |     |   |   |      | 30  | 330  | 500 | 375 |   |      |       | 19.7      |
| K15011                                | 2       | 15   | 6430   | 28   |     | 500  | 5430 | 500  |     |   |   |      | 30  | 330  | 500 | 375 |   |      |       | 20.2      |
| K15012                                | 4       | 15   | 7605   | 9    |     | 7605 |      |      |     |   |   | 1505 |     |      |     |     |   | 6740 | 4520  | 47.8      |
| K15013                                | 2       | 15   | 7370   | 9    |     | 7370 |      |      |     |   |   | 1465 |     |      |     |     |   | 6530 | 4375  | 23.1      |
| K15014                                | 2       | 15   | 7115   | 9    |     | 7115 |      |      |     |   |   | 1415 |     |      |     |     |   | 6300 | 4210  | 22.3      |
| K15015                                | 2       | 15   | 6865   | 9    |     | 6865 |      |      |     |   |   | 1370 |     |      |     |     |   | 6070 | 4050  | 21.6      |
| K15016                                | 2       | 15   | 7145   | 9    |     | 7145 |      |      |     |   |   | 1530 |     |      |     |     |   | 6180 | 3890  | 22.4      |
| K15017                                | 4       | 15   | 2830   | 9    |     | 2830 |      |      |     |   |   | 220  |     |      |     |     |   | 2785 | 4520  | 17.8      |
| K15018                                | 2       | 15   | 2505   | 9    |     | 2505 |      |      |     |   |   | 180  |     |      |     |     |   | 2470 | 4375  | 7.9       |
| K15019                                | 2       | 15   | 2115   | 9    |     | 2115 |      |      |     |   |   | 130  |     |      |     |     |   | 2095 | 4210  | 6.6       |
| K15020                                | 2       | 15   | 1665   | 9    |     | 1665 |      |      |     |   |   | 85   |     |      |     |     |   | 1650 | 4050  | 5.2       |
| K15021                                | 2       | 15   | 1775   | 19   |     | 500  | 775  | 500  |     |   |   | 245  | 330 | 435  | 375 |     |   | 1585 |       | 5.6       |
| K15022                                | 2       | 15   | 1935   | 19   |     | 500  | 935  | 500  |     |   |   | 245  | 330 | 435  | 375 |     |   | 1740 |       | 6.1       |
| K15023                                | 2       | 15   | 2355   | 19   |     | 500  | 1355 | 500  |     |   |   | 220  | 330 | 450  | 375 |     |   | 2180 |       | 7.4       |
| K15024                                | 2       | 15   | 2840   | 19   |     | 500  | 1840 | 500  |     |   |   | 185  | 330 | 465  | 375 |     |   | 2880 |       | 8.9       |
| K15025                                | 2       | 15   | 3395   | 19   |     | 500  | 2395 | 500  |     |   |   | 140  | 330 | 480  | 375 |     |   | 3250 |       | 10.7      |
| K15026                                | 2       | 15   | 4125   | 19   |     | 500  | 3125 | 500  |     |   |   | 70   | 330 | 495  | 375 |     |   | 3995 |       | 13.0      |
| K15027                                | 1       | 15   | 12440  | 14   | 515 | 5735 |      | 5735 | 515 |   |   | 4300 |     |      |     |     |   | 7620 |       | 19.5      |
| K15028                                | 2       | 15   | 11520  | 14   |     | 5760 |      | 5760 |     |   |   | 4325 |     |      |     |     |   | 7620 |       | 36.2      |
| K15029                                | 2       | 15   | 11600  | 14   |     | 5800 |      | 5800 |     |   |   | 4370 |     |      |     |     |   | 7620 |       | 36.4      |
| K15030                                | 3       | 15   | 11680  | 14   |     | 5840 |      | 5840 |     |   |   | 4425 |     |      |     |     |   | 7620 |       | 55.0      |
| K15031                                | 2       | 15   | 11740  | 14   |     | 5870 |      | 5870 |     |   |   | 4465 |     |      |     |     |   | 7620 |       | 36.9      |
| K15032                                | 2       | 15   | 11820  | 14   |     | 5910 |      | 5910 |     |   |   | 4515 |     |      |     |     |   | 7620 |       | 37.1      |
| K15033                                | 2       | 15   | 11890  | 14   |     | 5945 |      | 5945 |     |   |   | 4565 |     |      |     |     |   | 7620 |       | 37.3      |
| K15034                                | 1       | 15   | 11680  | 14   |     | 5840 |      | 5840 |     |   |   | 4425 |     |      |     |     |   | 7620 |       | 18.3      |
| K15035                                | 1       | 15   | 11480  | 14   |     | 5740 |      | 5740 |     |   |   | 4295 |     |      |     |     |   | 7620 |       | 18.0      |
| K15036                                | 50      | 15   | 4300   | 29   |     | 325  | 1325 | 2650 |     |   |   | 720  |     | 1115 |     |     |   | 4090 |       | 337.5     |
| K15037                                | 2       | 15   | 4295   | 29   |     | 325  | 1275 | 2695 |     |   |   | 690  |     | 1070 |     |     |   | 4090 |       | 13.5      |
| K15038                                | 2       | 15   | 4280   | 29   |     | 325  | 1200 | 2755 |     |   |   | 650  |     | 1010 |     |     |   | 4090 |       | 13.4      |
| K15039                                | 2       | 15   | 4265   | 29   |     | 325  | 1095 | 2845 |     |   |   | 595  |     | 920  |     |     |   | 4090 |       | 13.4      |
| K15040                                | 2       | 15   | 4240   | 29   |     | 325  | 950  | 2965 |     |   |   | 515  |     | 800  |     |     |   | 4090 |       | 13.3      |
| K15041                                | 2       | 15   | 4215   | 29   |     | 325  | 770  | 3120 |     |   |   | 420  |     | 650  |     |     |   | 4090 |       | 13.2      |
| K15042                                | 2       | 15   | 4180   | 29   |     | 325  | 545  | 3310 |     |   |   | 295  |     | 455  |     |     |   | 4090 |       | 13.1      |
| K15043                                | 2       | 15   | 4100   | 29   |     | 325  | 230  | 3545 |     |   |   | 70   |     | 220  |     |     |   | 4090 |       | 12.9      |
| K15044                                | 2       | 15   | 4240   | STR  |     |      |      |      |     |   |   |      |     |      |     |     |   |      |       | 26.6      |
| K15045                                | 2       | 15   | 4010   | STR  |     |      |      |      |     |   |   |      |     |      |     |     |   |      |       | 12.6      |
| K15046                                | 2       | 15   | 3440   | STR  |     |      |      |      |     |   |   |      |     |      |     |     |   |      |       | 10.8      |
| K15047                                | 2       | 15   | 2875   | STR  |     |      |      |      |     |   |   |      |     |      |     |     |   |      |       | 9.0       |
| K15048                                | 2       | 15   | 2310   | STR  |     |      |      |      |     |   |   |      |     |      |     |     |   |      |       | 7.2       |
| K15049                                | 2       | 15   | 1740   | STR  |     |      |      |      |     |   |   |      |     |      |     |     |   |      |       | 5.5       |
| K15050                                | 2       | 15   | 1175   | STR  |     |      |      |      |     |   |   |      |     |      |     |     |   |      |       | 3.7       |
| K15051                                | 2       | 15   | 610    | STR  |     |      |      |      |     |   |   |      |     |      |     |     |   |      |       | 1.9       |
| K15052                                | 28      | 15   | 4800   | STR  |     |      |      |      |     |   |   |      |     |      |     |     |   |      |       | 211.0     |
| K15053                                | 2       | 15   | 4695   | 27   |     |      | 4520 | 175  |     |   |   |      | 50  |      | 165 |     |   | 4685 |       | 14.7      |
| K15054                                | 2       | 15   | 4785   | 27   |     |      | 4515 | 270  |     |   |   |      | 75  |      | 260 |     |   | 4785 |       | 15.0      |
| K15055                                | 2       | 15   | 4775   | 27   |     |      | 4410 | 365  |     |   |   |      | 105 |      | 350 |     |   | 4775 |       | 15.0      |
| K15056                                | 2       | 15   | 4770   | 27   |     |      | 4310 | 460  |     |   |   |      | 130 |      | 440 |     |   | 4770 |       | 15.0      |
| K15057                                | 2       | 15   | 4765   | 27   |     |      | 4205 | 560  |     |   |   |      | 160 |      | 535 |     |   | 4765 |       | 15.0      |
| K15058                                | 1       | 15   | 4860   | 27   |     |      | 4200 | 660  |     |   |   |      | 290 |      | 590 |     |   | 4860 |       | 7.6       |

DWG TOTAL WEIGHT = 2522.6 kg



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



Bid Opportunity No. 257-2005

PLOT SCALE: 1"=1' (1:120) PLOT DATE: 05/07/05 11:00 AM

**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

**APECM**  
Certificate of Authorization  
UMA Engineering Ltd.  
No. 256 Expiry: April 30, 2006

| NO. | REVISIONS               | DATE     | BY |
|-----|-------------------------|----------|----|
| 0   | ISSUED FOR CONSTRUCTION | 05/07/05 | MP |

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|-------------|-----|-------------|------------|
| DESIGNED BY | BLL | CHECKED BY  | SBB        |
| DRAWN BY    | DL  | APPROVED BY | <i>BLL</i> |
| HOR. SCALE  |     |             |            |