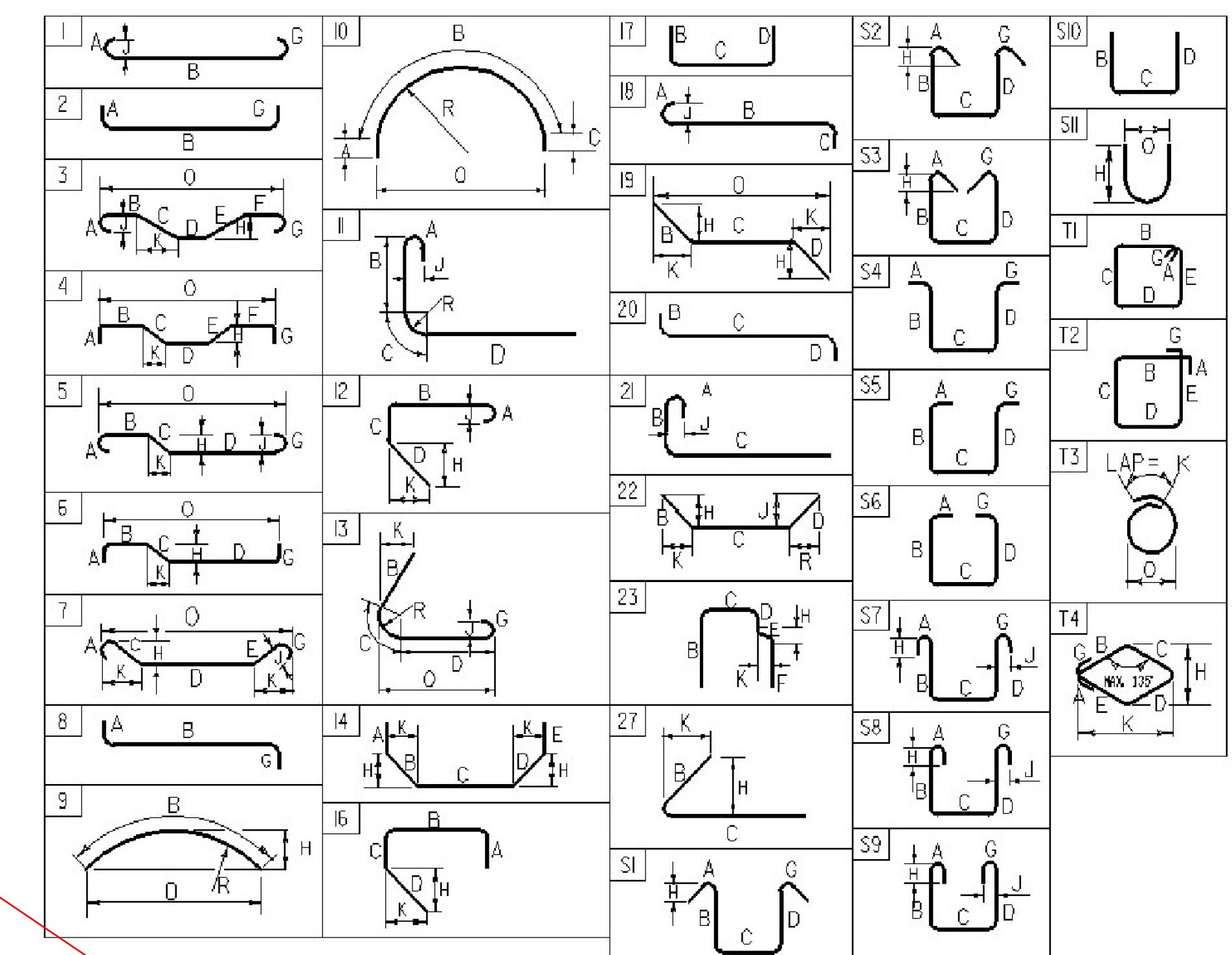


REINFORCING STEEL SCHEDULE

| ITEM | EACH | SIZE | LENGTH | MARK | TYPE | A | B | C | D | E | F | G | H | J | K | R | O | ITEM | EACH | SIZE | LENGTH | MARK | TYPE | A | B | C | D | E | F | G | H | J | K | R | O | | |
|-------------------------------------|------|--------|--------|------|------|-------|-------|-------|-------|---|---|-------|--------|---|---|---|-------|------------------------------------|------|---------|--------|------|------|---|---|--------|--------|-------|---|-------|---------|-------|---------|-------|-------|-------|-------|
| SUPERSTRUCTURE REINFORCEMENT | | | | | | | | | | | | | | | | | | ABUTMENT 2 REINFORCEMENT | | | | | | | | | | | | | | | | | | | |
| 74 | 4 | 6'-2" | S401 | S11 | | | | | | | | | 2'-11" | | | | 0'-4" | 24 | 4 | 3'-9" | 2A401 | S11 | | | | | | | | 1'-9" | | | | 0'-5" | | | |
| 68 | 4 | 11'-0" | S402 | S5 | | 3'-0" | 2'-5" | 0'-4" | 2'-7" | | | 2'-8" | | | | | | 4 | 4 | 11'-3" | 2A402 | S11 | | | | | | | | 5'-6" | | | | 0'-5" | | | |
| 482 | 5 | 10'-3" | S501 | STR | | | | | | | | | | | | | | 4 | 5 | 24'-7" | 2A501 | STR | | | | | | | | | | | | | | | |
| 76 | 5 | 19'-6" | S502 | STR | | | | | | | | | | | | | | 4 | 5 | 20'-8" | 2A502 | STR | | | | | | | | | | | | | | | |
| 72 | 5 | 21'-2" | S503 | STR | | | | | | | | | | | | | | 13 | 5 | 28'-3" | 2A503 | STR | | | | | | | | | | | | | | | |
| 192 | 5 | 2'-3" | S504 | STR | | | | | | | | | | | | | | 13 | 5 | 21'-4" | 2A504 | STR | | | | | | | | | | | | | | | |
| 112 | 5 | 2'-9" | S505 | STR | | | | | | | | | | | | | | 4 | 5 | 21'-8" | 2A505 | STR | | | | | | | | | | | | | | | |
| 12 | 5 | 20'-3" | S506 | STR | | | | | | | | | | | | | | 4 | 5 | 18'-10" | 2A506 | STR | | | | | | | | | | | | | | | |
| 12 | 5 | 23'-3" | S507 | STR | | | | | | | | | | | | | | 21 | 5 | 4'-5" | 2A507 | STR | | | | | | | | | | | | | | | |
| 8 | 5 | 0'-11" | S508 | STR | | | | | | | | | | | | | | 58 | 5 | 5'-5" | 2A508 | S10 | | | | 3'-4" | 2'-1" | | | | | | | | | | |
| 8 | 5 | 1'-4" | S509 | STR | | | | | | | | | | | | | | 29 | 5 | 4'-6" | 2A509 | 1 | | | | 0'-7" | 3'-4" | | | | 0'-7" | | | 0'-5" | | | |
| 48 | 5 | 52'-6" | S510 | STR | | | | | | | | | | | | | | 45 | 5 | 9'-6" | 2A510 | 2 | | | | 2'-6" | 7'-0" | | | | 0'-0" | | | | | | |
| | | | | | | | | | | | | | | | | | | 45 | 5 | 8'-9" | 2A511 | 2 | | | | 2'-6" | 6'-3" | | | | 0'-0" | | | | | | |
| | | | | | | | | | | | | | | | | | | 12 | 5 | 3'-11" | 2A512 | STR | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 3 | 5 | 3'-6" | 2A513 | STR | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 3 | 5 | 2'-9" | 2A514 | STR | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 1 | 5 | 6'-1" | 2A515 | 22 | | | | 5'-5" | 0'-8" | 0'-0" | | | 2'-5" | 0'-0" | 4'-11" | 0'-0" | | | |
| | | | | | | | | | | | | | | | | | | 1 | 5 | 6'-8" | 2A516 | 22 | | | | 5'-5" | 1'-3" | 0'-0" | | | 2'-5" | 0'-0" | 4'-11" | 0'-0" | | | |
| | | | | | | | | | | | | | | | | | | 1 | 5 | 7'-2" | 2A517 | 22 | | | | 5'-5" | 1'-9" | 0'-0" | | | 2'-5" | 0'-0" | 4'-11" | 0'-0" | | | |
| | | | | | | | | | | | | | | | | | | 1 | 5 | 7'-8" | 2A518 | 22 | | | | 5'-5" | 2'-3" | 0'-0" | | | 2'-5" | 0'-0" | 4'-11" | 0'-0" | | | |
| | | | | | | | | | | | | | | | | | | 1 | 5 | 5'-7" | 2A519 | 22 | | | | 3'-7" | 2'-0" | 0'-0" | | | 1'-4.5" | 0'-3" | 3'-4.5" | 0'-0" | | | |
| | | | | | | | | | | | | | | | | | | 1 | 5 | 5'-1" | 2A520 | 22 | | | | 3'-7" | 1'-6" | 0'-0" | | | 1'-4.5" | 0'-3" | 3'-4.5" | 0'-0" | | | |
| | | | | | | | | | | | | | | | | | | 1 | 5 | 4'-6" | 2A521 | 22 | | | | 3'-7" | 0'-11" | 0'-0" | | | 1'-4.5" | 0'-3" | 3'-4.5" | 0'-0" | | | |
| | | | | | | | | | | | | | | | | | | 1 | 5 | 4'-0" | 2A522 | 22 | | | | 3'-7" | 0'-5" | 0'-0" | | | 1'-4.5" | 0'-3" | 3'-4.5" | 0'-0" | | | |
| | | | | | | | | | | | | | | | | | | 11 | 5 | 4'-4" | 2A523 | 2 | | | | 0'-10" | 2'-8" | | | | 0'-10" | | | | | | |
| | | | | | | | | | | | | | | | | | | 2 | 5 | 4'-8" | 2A524 | 2 | | | | 0'-10" | 3'-0" | | | | 0'-10" | | | | | | |
| | | | | | | | | | | | | | | | | | | 2 | 5 | 7'-2" | 2A525 | STR | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 1 | 5 | 6'-3" | 2A526 | STR | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 1 | 5 | 2'-10" | 2A527 | STR | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 4 | 5 | 12'-6" | 2A528 | STR | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 2 | 5 | 6'-6" | 2A529 | STR | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 1 | 5 | 4'-7" | 2A530 | STR | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 1 | 5 | 3'-0" | 2A531 | STR | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 4 | 5 | 8'-9" | 2A532 | STR | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 2 | 5 | 8'-8" | 2A533 | 2 | | | | 2'-6" | 6'-2" | | | | 0'-0" | | | | | | |
| | | | | | | | | | | | | | | | | | | 2 | 5 | 9'-1" | 2A534 | 2 | | | | 2'-6" | 6'-7" | | | | 0'-0" | | | | | | |
| | | | | | | | | | | | | | | | | | | 2 | 5 | 9'-7" | 2A535 | 2 | | | | 2'-6" | 7'-1" | | | | 0'-0" | | | | | | |
| | | | | | | | | | | | | | | | | | | 2 | 5 | 10'-1" | 2A536 | 2 | | | | 2'-6" | 7'-7" | | | | 0'-0" | | | | | | |
| | | | | | | | | | | | | | | | | | | 5 | 5 | 10'-7" | 2A537 | 2 | | | | 2'-6" | 8'-1" | | | | 0'-0" | | | | | | |
| | | | | | | | | | | | | | | | | | | 2 | 5 | 11'-1" | 2A538 | 2 | | | | 2'-6" | 8'-7" | | | | 0'-0" | | | | | | |
| | | | | | | | | | | | | | | | | | | 2 | 5 | 9'-1" | 2A539 | 2 | | | | 2'-6" | 6'-7" | | | | 0'-0" | | | | | | |
| | | | | | | | | | | | | | | | | | | 2 | 5 | 9'-5" | 2A540 | 2 | | | | 2'-6" | 6'-11" | | | | 0'-0" | | | | | | |
| | | | | | | | | | | | | | | | | | | 2 | 5 | 9'-10" | 2A541 | 2 | | | | 2'-6" | 7'-4" | | | | 0'-0" | | | | | | |
| | | | | | | | | | | | | | | | | | | 2 | 5 | 10'-3" | 2A542 | 2 | | | | 2'-6" | 7'-9" | | | | 0'-0" | | | | | | |
| | | | | | | | | | | | | | | | | | | 4 | 5 | 10'-7" | 2A543 | 2 | | | | 2'-6" | 8'-1" | | | | 0'-0" | | | | | | |
| | | | | | | | | | | | | | | | | | | 22 | 5 | 4'-5" | 2A544 | STR | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 4 | 5 | 2'-2" | 2A545 | STR | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 3 | 5 | 1'-3" | 2A546 | 1 | | | | 0'-7" | 0'-8" | | | | 0'-0" | | 0'-5" | | | | |
| | | | | | | | | | | | | | | | | | | 7 | 7 | 12'-6" | 2A701 | STR | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 8 | 7 | 8'-9" | 2A702 | STR | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | PIER REINFORCEMENT | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 80 | 5 | 7'-0" | P501 | S10 | | | | | | | | | | | | 2'-2" | 2'-8" | 2'-2" | |
| | | | | | | | | | | | | | | | | | | 112 | 5 | 6'-4" | P502 | S10 | | | | | | | | | | | | | 2'-2" | 2'-0" | 2'-2" |
| | | | | | | | | | | | | | | | | | | APPROACH SLAB REINFORCEMENT | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 42 | 5 | 18'-9" | AS501 | STR | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 42 | 5 | 21'-2" | AS502 | STR | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 43 | 5 | 2'-8" | AS503 | STR | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 89 | 9 | 20'-11" | AS901 | 1 | | | | 1'-3" | 19'-8" | | | | | | | | | | |

~ NOTES ~

- UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31 (ASTM A 615-S1). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
- FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
- BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
- "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
- "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
- WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
- ▲ DENOTES BARS TO BE CUT IN FIELD.
- * DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
- △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
- SUPERSTRUCTURE, ABUTMENT, AND PIER REINFORCEMENT SHALL BE LEVEL II. APPROACH SLAB REINFORCEMENT SHALL BE LEVEL I.



| ASTM STANDARD REINFORCING BARS | | | | |
|--------------------------------|------------------------|----------------------------------|--------------------------|------------------|
| BAR SIZE DESIGNATION | WEIGHT POUNDS PER FOOT | NOMINAL DIMENSIONS ROUND SECTION | | |
| | | DIAMETER INCHES | AREA INCHES ² | PERIMETER INCHES |
| #3 | 0.376 | 0.375 | 0.11 | 1.178 |
| #4 | 0.668 | 0.500 | 0.20 | 1.571 |
| #5 | 1.043 | 0.625 | 0.31 | 1.963 |
| #6 | 1.502 | 0.750 | 0.44 | 2.356 |
| #7 | 2.044 | 0.875 | 0.60 | 2.749 |
| #8 | 2.670 | 1.000 | 0.79 | 3.142 |
| #9 | 3.400 | 1.128 | 1.00 | 3.544 |
| #10 | 4.303 | 1.270 | 1.27 | 3.990 |
| #11 | 5.313 | 1.410 | 1.56 | 4.430 |
| #14 | 7.65 | 1.693 | 2.25 | 5.32 |
| #18 | 13.60 | 2.257 | 4.00 | 7.09 |

PROJECT NAME: **ROCKINGHAM**
 PROJECT NUMBER: **BRF 0126(12)**
 FILE NAME: z10j072bdr_rss.dgn PLOT DATE: 5/14/2014
 PROJECT MANAGER: R. HEBERT DRAWN BY: T. POULIN
 DESIGNED BY: S. KELLER CHECKED BY: R. HEBERT
 REINFORCING STEEL SCHEDULE SHEET 44 OF 69