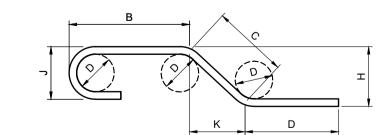


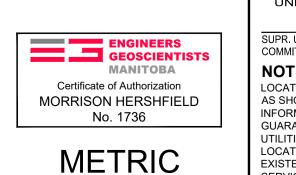
- 1. ALL DIMENSIONS GIVEN IN BENDING DIAGRAM ARE OUT-TO-OUT, EXCEPT RADII AND EXTENSIONS ON 90°, 135° & 180° HOOKS. EXTENSIONS ON 90°, 135° & 180° HOOKS ARE THE "A" OR "G" DIMENSIONS FOR THE STANDARD 90°, 135° & 180° HOOKS. REFERENCED FROM THE RSIC "MANUAL OF STANDARD PRACTICE". RADII ARE INSIDE DIMENSIONS. ALL REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF CAN/CSA-S6 CLAUSE 8.14 "DETAILS OF REINFORCEMENT AND SPECIAL
- 2. ALL REINFORCING STEEL SHALL BE DEFORMED STEEL, UNLESS NOTED OTHERWISE IN THE BILL OF REINFORCING STEEL.

DETAILING PROVISIONS", UNLESS NOTED OTHERWISE IN THE BILL OF REINFORCING STEEL.

- 3. ALL REINFORCING WITH SUFFIX "SS" SHALL BE STAINLESS STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A955M, 300 SERIES, MINIMUM GRADE 420, OF ONE OF THE FOLLOWING UNS DESIGNATIONS: S31653, S31803, OR S32304.
- 4. ALL REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF CAN/CSA G30.18 "CARBON STEEL BARS FOR CONCRETE REINFORCEMENT" GRADE 400W, UNLESS NOTED OTHERWISE.
- 5. LIKE BARS SHALL BE BUNDLED, SECURELY TIED AND IDENTIFIED AS TO MARK AND SITE NO. BY APPROPRIATE MEANS. ALL OTHER ITEMS TO BE IDENTIFIED IN A SIMILAR FASHION.
- 6. UNLESS OTHERWISE NOTED DIAMETER "D" IS THE SAME ALL HOOKS AND BENDS ON A BAR. WHERE SLOPE DIFFERS FROM 45° DIMENSIONS "H" AND "K" MUST BE SHOWN.



**ENLARGED VIEW BAR BENDING DETAILS** 



ENGINEERS GEOSCIENTISTS	LOCATION APPROVED UNDERGROUND STRUCTURES  SUPR. U/G STRUCTURES COMMITTEE  DATE	BM ELEV		Morris	SON HER	SHFIELD	A. 4	Winnipeg THE CITY OF WIND PUBLIC WORKS DEPARATION OF WIND PUBL	ARTMENT
MANITOBA  Certificate of Authorization  MORRISON HERSHFIELD	NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST		DESIGNED BY	AF	CHECKED BY	ВАР	FATHI Member	EMPRESS STREET PROJECT	CITY DRAWING NUMBER P-3494-116
No. 1736	INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN		DRAWN BY	АН	APPROVED BY	BE	PROFESSIONE	OVERPASS REHABILITATION WORKS	SHEET OF 116 169
METRIC	LOCATIONS ARE EXACT. CONFIRMATION OF	C ISSUED FOR ADDENDUM 1	18/10/05 BAP HOR SCALE	AS SHOWN	RELEASED FOR CO	ONSTRUCTION	10LE2216	SUBSTRUCTURE AND SUPERSTRUCTURE BILL OF REINFORCING	DRAWING No. RE
WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES	EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING	B ISSUED FOR TENDER A ISSUED FOR 95% DESIGN REVIEW	18/09/04 BAP VERT SCALE  18/08/07 BAP			N/A	CONSULTANT FILE NAME W160034-DD EMPRESS -	DILL OF REINFOROING	116
DECIMALIZED NUMBERS INDICATE METRES		No. REVISIONS	YY/MM/DD BY DATE		DATE		REINF - OVERPASS.DWG		''



## THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT **ENGINEERING DIVISION**

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