

A1 SIZE (594 mm x 841 mm) | Plotfile: M:\2020_02_2020.ctb | Last saved by: BarryK | Layout: 2 Design Data and General Notes | File: F:\2020\20M-00233-00 - St. Vital Underpass Maintenance\WSP Drawings\20M-00233-00 St.Vital Ped Underpass DD_02_general notes.dwg | Layout: 2 Design Data and General Notes

GENERAL

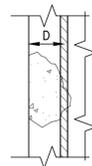
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH CONTRACT SPECIFICATIONS.
- THE METRIC SYSTEM OF MEASUREMENT IS USED ON ALL DRAWINGS AND ELEVATIONS ARE SHOWN IN MILLIMETERS.
- CONTRACTOR MUST VERIFY ALL EXISTING GEOMETRY AS WELL AS PROPOSED DIMENSIONS AND LAYOUT IN THE FIELD PRIOR TO FABRICATION AND CONSTRUCTION. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR PRIOR TO CONSTRUCTION.
- ALL REFERENCES TO CODES, STANDARDS, SPECIFICATIONS, GUIDELINES, ETC., SHALL MEAN THE LATEST EDITION.
- THE CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND ABOUT THE JOB SITE DURING CONSTRUCTION.
- NON-SHRINKABLE NON-METALLIC CEMENTITIOUS GROUT FOR PATCHING EXISTING GUARDRAIL AND HANDRAIL CONNECTIONS ONLY, SHALL BE SIKA 212 OR MASTERFLOW 713 AND PLACED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND APPROVED BY THE CONTRACT ADMINISTRATOR.
- CONCRETE REPAIRS METHODOLOGY MUST BE SUBMITTED TO THE CONTRACT ADMINISTRATOR PRIOR TO COMMENCING ANY TYPE OF CONCRETE REPAIR WORK.
- STAIR NOSING AND TREAD REPLACEMENT METHODOLOGY MUST BE SUBMITTED TO THE CONTRACT ADMINISTRATOR PRIOR TO COMMENCING CONCRETE REPAIR WORK. PRODUCT SHALL BE FROM URBAN ACCESS SOLUTIONS (QUANTITY: 11 NORTH AND SOUTH STAIRWELL COMBINED).
- SUBMITTED SHOP DRAWINGS SHALL BE TRANSMITTED ELECTRONICALLY AND IN PDF FORMAT AND THE CONTRACTOR SHALL INCLUDE THEIR REVIEW CONFIRMATION.
- DETECTABLE WARNING TILE SHALL BE BY EVERGRIP CORDUROY HAZARD WARNING TACTILE PAVING (YELLOW) SPANNING THE FULL WIDTH OF THE STAIR LANDING. INSTALLATION SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS AND REQUIREMENTS OR AS ACCEPTED BY THE CONTRACT ADMINISTRATOR.
- WALL AND ROOF SURFACES SHALL BE PRIMED WITH SHERWIN WILLIAMS MARCOPOXY 646, AND TWO-COAT PAINT SHALL BE DULUX WEATHERGUARD EXTERIOR FLAT 1530 - CITY OF WINNIPEG COLOUR "ASSINIBOINE BEIGE" AND APPLIED AS PER MANUFACTURER'S SPECIFICATIONS AND AS ACCEPTED BY THE CONTRACT ADMINISTRATOR.
- PAINT COLOUR FOR THE BOTTOM 300 mm OF STAIRWELL AND UNDERPASS WALLS AND SHALL BE DULUX WEATHERGUARD EXTERIOR FLAT 1530 BY SHERWIN WILLIAMS IN CITY OF WINNIPEG COLOUR "STANDARD BROWN", OR EQUIVALENT AS APPROVED BY THE CONTRACTOR.

DESIGN CRITERIA

- ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE LATEST REVISION OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
- DESIGN IS IN ACCORDANCE WITH THE CITY OF WINNIPEG - ACCESSIBILITY DESIGN STANDARD, THIRD EDITION.
- DESIGN IS IN ACCORDANCE WITH CAN/CSA S6-19 "CANADIAN HIGHWAY BRIDGE DESIGN CODE".

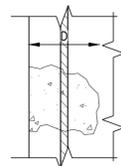
CAST IN PLACE CONCRETE

- TO BE READ IN CONJUNCTION WITH CW 3325 FOR SIDEWALK CONSTRUCTION AND SPECIFICATION E7 FOR STRUCTURAL CONCRETE REPAIRS, AND AS AMENDED IN ACCORDANCE WITH THESE NOTES. SIDEWALK RENEWAL BESIDE EXISTING CURB WALL SHALL BE COMPLETE WITH 12 mm FORM BOARD AND CAULKED JOINTS.
- CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF CSA A23.1.
- ALL CEMENTITIOUS MATERIAL SHALL BE IN ACCORDANCE WITH CSA A3001.
- ALL CAST-IN-PLACE CONCRETE FOR STRUCTURAL REPAIRS SHALL HAVE THE FOLLOWING PROPERTIES:
 35 MPa AT 28 DAYS
 CSA A23.1 EXPOSURE CLASS C-1
 CEMENT TYPE GU
 CATEGORY 1 AIR ENTRAINMENT
- CONCRETE COVER TO REINFORCING SHALL BE 50 mm UNLESS OTHERWISE NOTED.
- TYPE 1 CONCRETE REPAIRS IS CONSIDERED 0 mm - 50 mm DEPTH, WITH EXAMPLE SHOWN IN DIAGRAM BELOW:



TYPE 1: D = 0 mm TO 50 mm

- TYPE 2 AND 3 CONCRETE REPAIRS ARE CONSIDERED TO BE 51 mm - 100 mm DEPTH AND 101 mm - 200 mm DEPTH, RESPECTIVELY WITH EXAMPLES SHOWN IN DIAGRAM BELOW:



TYPE 2: D = 51 mm TO 100 mm
 TYPE 3: D = 101 mm TO 200 mm

- ANODES SHALL BE GALVASHIELD XPT BY VECTOR CORROSION TECHNOLOGIES AND SHALL BE PLACED IN TYPE 2 AND 3 REPAIR AREAS AS DIRECTED BY THE CONTRACT ADMINISTRATOR.

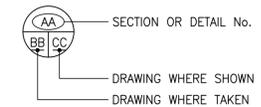
REINFORCING STEEL

- TO BE READ IN CONJUNCTION WITH CW 2160 AND AS AMENDED IN ACCORDANCE WITH THESE NOTES.
 - ALL OTHER REINFORCING STEEL SHALL CONFORM TO CSA G30.18M, GRADE 400W, UNLESS NOTED OTHERWISE.
 - THE MINIMUM LAP LENGTH FOR ALL REINFORCING STEEL MEETS CAN/CSA S6, CLASS B.
- | BAR SIZE | LAP LENGTH |
|----------|------------|
| 10M | 450 |
| 15M | 740 |
| 20M | 900 |
| 25M | 1 450 |
- REINFORCING STEEL LAPS SHALL BE STAGGERED UNLESS NOTED OTHERWISE.

MISCELLANEOUS METAL

- EXTRUDED ALUMINUM SHAPES SHALL CONFORM TO THE REQUIREMENTS OF ASTM B221, ALLOY 6063-T6 OR ALLOY 6351-T6. ALUMINUM PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM B221, ALLOY 5083-H116. PLACE NEOPRENE PAD UNDER EACH POST BETWEEN BASE PLATE SHIM AND CONCRETE SURFACE.
- STAINLESS STEEL HANDRAIL MATERIAL SHALL CONFORM TO ASTM A269/A269M-15a GRADE 316 OR APPROVED EQUIVALENT. BASE PLATES SHALL CONFORM TO ASTM A276/A276M-17 CLASS 316 OR APPROVED EQUIVALENT.
- ANTI-SEIZE COATING TO BE APPLIED TO ALL THREADED COMPONENTS WHEN BEING ASSEMBLED (I.E., LPS-3-PRIMER RUST INHIBITOR 3.78).
- DIMENSIONAL TOLERANCES NOT SHOWN OR IMPLIED ARE INTENDED TO BE THOSE CONSISTENT WITH THE PROPER FUNCTIONS OF THE PART, INCLUDING APPEARANCE, AND ACCEPTED MANUFACTURING PRACTICES.
- CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS TO THE CONTRACT ADMINISTRATOR FOR APPROVAL PRIOR TO FABRICATION OF ALUMINUM GUARDRAIL AND STAINLESS STEEL HANDRAIL COMPONENTS.
- THE CONTRACTOR SHALL INSTALL ANCHORAGES, FOR FIT-UP PURPOSES TO PREVENT INTERFERENCE WITH EXISTING GUARDRAIL ANCHORAGES, AS INDICATED ON DWG U218-20-06 BEFORE FABRICATION AND/OR INSTALLATION OF ALUMINUM PEDESTRIAN GUARDRAIL. THE CONTRACTOR SHALL THEN CONFIRM FIELD MEASUREMENTS OF ALL ALUMINUM PEDESTRIAN GUARDRAIL DIMENSIONS PRIOR TO PREPARING SHOP DRAWINGS. IT HAS BEEN NOTED THAT EXISTING CURB WALLS ARE SLOPED AS SHOWN ON DWG U218-20-05. THE GUARDRAIL DRAWINGS WERE DESIGNED WITH NO GRADE AND REVISIONS BY THE FABRICATOR MAY BE DEEMED NECESSARY.

SECTION AND DETAIL SYMBOLS LEGEND



METRIC
 WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES



LOCATIONS APPROVED UNDERGROUND STRUCTURES		WSP		WSP Canada Group Limited 93 Lombard Avenue, Suite 111 Winnipeg MB R3B 3B1 T+ 1 204-943-3178 F+ 1 204-943-4948 www.wsp.com	
SIGNED BY:	DATE	DESIGNED BY:	MM	CHECKED BY:	MLW
SUPV U/G STRUCTURES		DRAWN BY:	KP	APPROVED BY:	JL
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT CONFIRMATION OF EXISTANCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING		HOR. SCALE:	N.T.S.	RELEASED FOR CONSTRUCTION:	
0	ISSUED FOR TENDER	DATE	20.05.22	DATE	20.05.22
No.	REVISIONS	DATE	BY	DATE	

ENGINEER'S SEAL
CONSULTANT PROJECT No.
20M-00233-00

THE CITY OF WINNIPEG
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION

FERMOR AVENUE PEDESTRIAN UNDERPASS NEAR ST. MARY'S ROAD - MAINTENANCE WORKS

DESIGN DATA AND GENERAL NOTES

CITY DRAWING NUMBER	U218-20-02
BID OPPORTUNITY NUMBER	372-2020
SHEET	2 OF 7
REV	0

NOTE: These design documents are prepared solely for the use by the party with whom the design professional has entered into a contract and there are no representations of any kind made by the design professional to any party with whom the design professional has not entered into a contract.