FOUNDATION

FOOTING FOUNDATIONS:

DESIGN ALLOW BEARING PRESSURE 480 KPa

Provide Casing at all times on site and use if required due to water or sloughing soils.

FOOTINGS TO BEAR ON SCARIFIED BEDROCK OR ON MAX 300mm GRAVEL FILL ABOVE BEDROCK

LAST SAVED: 8/3/2005 10:20 AM

AGGREG. MAX. (mm)

AR (%)

MINIMUM REINFORCING AROUND OPENINGS LARGER THAN 300mm: 1-15M EACH SIDE AND EACH FACE OF OPENING, EXTENDED 600mm PAST CORNERS. 90' hooks and 180' hooks where shown shall be detailed as standard hooks unless noted otherwise. DOWELS AND ANCHOR BOLTS SHALL BE SECURED IN POSITION BY MEANS OF TEMPLATES BEFORE CONCRETE IS POURED.

PROVIDE DOWELS FROM CONCRETE BEAMS OR WALLS TO MATCH BLOCK REINFORCING.

23 23

WON

EXTERIOR CONCRETE INTERIOR CONCRETE CONCRETE REQUIREMENTS: TEST CONCRETE IN ACCORDANCE

PROVIDE CONCRETE AND PERFORM WORK TO CSA CAN3-A23.1M90. THE CONTRACTOR SHALL HAVE A COPY OF THIS STANDARD ON SITE AT ALL TIMES.

CHAIR SLAB REINFORCING NOT FURTHER THAN 1.0 METRE IN EITHER DIRECTION. SUPPLY SUPPORT BARS, CHAIRS, AND CARRIERS AS NECESSARY.

RENFORMOR TO BE CONTINUOUS UNLESS NOTED. LAP TOP BARS AT MIDSPAN, BOTTOM BARS AT SUPPORTS, MINIMUM LAP FOR TOM BARS TO BE 450 MM. MINIMUM LAPS FOR OTHER BARS TO BE CLASS B TINSON SPUCES. WHERE REINFORCEMENT LAPS ARE REQUIRED IN ADJACENT BARS, STAGGER LAPS MINIMUM 1200 UNLESS NOTED OTHERWISE. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI DETAILING MANUAL OR THE REINFORCING STEEL INSTITUTE OF CANADA DETAILING MANUAL. WELDABLE REINFORCING BARS SHALL CONFORM TO CSA G30.16 GRADE 400. WELDING OF REINFORCING SHALL CONFORM TO CSA W186.

REINFORCING WORK SHALL BE IN ACCORDANCE WITH CSA CAN3-A23.1 AND CSA CAN3-A23.3.

CONCRETE

ISSURE ALL LOOSE MATERIAL AND WATER IS THOROUGHLY REMOVED FROM PILE EXAMITIONS PRIOR TO PLACING REMOVEDCENT AND CONCRETE. CONCRETING OPERATIONS TO PROCEED WITHIN 3 HOURS OF EXCAMITION OR MANERALELY IF GROUNDWATER EXISTS. CASTING OF ALL PILES SHALL BE CONTRIUDUSS. CONSTRUCTION, OUNTS IN PILE SHAFTS SHALL NOT BE ALLOWED WHEN A PLACE SHAFTS SHALL NOT BE ALLOWED. DEAD LOADS: STRUCTURE SELF WEIGHT PLUS: EXCAVATE TO LINES AND LEVELS NECESSARY TO PROPERLY COMPLETE THE WORK. MINIMUM SIDE SLOPES OF TEMPORARY EXCAVATIONS SHALL NOT EXCEED 1 TO 1, OR AS RECOMMENDED IN THE RECOTECHNICAL REPORT. CONTROL EXCAVATION TO ENSURE BOTTOM OF EXCAVATION DOES NOT SOFTEN DUE TO EXCESS MOISTURE. ALL FOUNDATION CONSTRUCTION TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN ENGINEERING REPORT — "CECHECHNICAL INVESTIGATION PROPOSED ADDITION TO WASTE WATER TREATMEN PLANT, IQALUIT NUMAVUT." TROW ASSOCIATES INC. REPORT: OTGEODOT/TB1A, DATED JULY 22, 2004 DO NOT ALLOW COMPLETED WORK TO BE DAMAGED FROM FREEZING CONDITIONS DO NOT PLACE BACKFILL AGAINST WALLS RETAINING SOIL UNTIL THE FLOOR CONSTRUCTION IS COMPLETE. PROVIDE TEMPORARY SHORING TO PERIMETER WALLS PRIOR TO SLAB PLACEMENT. **EXCAVATION & BACKFILL** CONSTRUCTION METHODS REQUIRING TEMPORARY SHORING, OR BRACING, SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW. THE CONTRACTOR SHALL RETURN A PROFESSIONAL BEGINNER, REGISTED IN THE MORTHWEST TEMPORES, MUNICIPION, OR DEPORT AND TAKE RESPONSIBILITY FOR ANY SHORING OR OTHER DESIGNS REQUIRED TO COMPLETE THE CONSTRUCTION. CONTRACTOR TO COMPRIM WITH EQUIPMENT SUPPLIERS DIMENSIONS AND ALL CITHER CRITICAL DETAILS PRIDE TO CONSTRUCTION. REPORT DISCREPANCIES AND OBTAIN APPROVAL PRIOR TO PROCEEDING WITH CONSTRUCTION. REFER TO THE ARCHITECTURAL, PROCESS, MECHANICAL AND ELECTRICAL DRAWNIGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, SLEENES AND OTHER BUILDING COMPONENTS NOT SHOWN ON THE STRUCTURAL DRAWNIGS. REPORT DISCREPANCIES TO THE OWNER BEFORE PROCEEDING WITH THE WORK. READ THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER PERTINENT CONTRACT DOCUMENTS. where backfill is required on both sides of a wall or structure, place simultaneously on each side. VERIFY LOCATION OF UNDERGROUND SERVICES AND BE RESPONSIBLE FOR DISRUPTIONS. ALL DIMENSONS ARE IN MILLIMETERS UNLESS NOTED, THE CONTRACTOR SHALL YERIFY DIMENSIONS BETORE CONSTRUCTION AND REPORT DISOREPANCIES BEFORE PROCEEDING WITHE WORK, DO NOT SCALE DRAWNIGS. DO NOT PLACE BACKFILL ON FROZEN GROUND, NOR USE FROZEN MATERIAL ROCK EXCAVATION: SEE SPECIFICATION SECTION 02316 PRAMNICS SHOW COMPLETED STRUCTURES ONLY, PROVIDE TELPORARY BRAING FOR CONSTRUCTION LOADING COMDITIONS AND STRUEUTY OF THE STRUCTURE DURING CONSTRUCTION, CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS. THE DESIGN AND CONSTRUCTION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA 1995 AND REFERENCED STANDARDS THEREIN. 2. UNDER INTEROR AND EXTERIOR STRUCTURAL SLABS. USE MATINE EXCAVATED METERIALS, OR EXCAVATED BOOK TO MITHIN 250mm of U/S SLAB. COMPACT TO 98% SPD WITH LAYBES NOT EXCEENING 300mm, PLL NEXT 150mm WITH THE 1 PLL UNAPACTED TO 98% SPD. USE 100mm VOID FORM AND PL-WOOD FOR REMAINING 100mm 3. UNDER EXTERIOR GRADES SUPPORTED SLABS. USE NATIVE EXCAVATED MATERIALS OR EXCAVATED ROCK TO WITHIN SOOmm OF U/S SLAB AND COMPACT TO 98X SPD IN LAYERS NOT EXCEEDING 150mm. USE TYPE 1 FILL FOR REMAINING 500mm. COMPACT TO 98X SPD IN LAYERS NOT EXCEEDING 150mm. ROOF LOAD SUPERIMPOSED DEAD LOAD ROOF FLOORS UNDER INTERIOR GRADE SUPPORTED SLABS: USE TYPE 1 GRAVEL COMPACTED TO 98% SPD WITH LAYERS NOT EXCEEDING 150mm DAF TANK FLOOR WASH DOWN TANK IN-FILL CLARIFIER BLDG WALKWAY SLAB OVER AERATION TANKS CLARIFIER BLDG LOWER LEVEL UTILIZE EXCAVATED GRANULAR MATERIAL FOR BACKFILL ONLY WHEN APPROVED BY THE OWNER. Under PIPE BEDS. FILL BOTTOM WITH CLEAN COARSE SAND TO WITHIN 300mm of Surface, compact to 95% 95P with Lykers not exceeding 150mm. USE TYPE 1 FILL FOR 100P 300mm. COMPACT TO 96% 95P IN LAYERS NOT EXCEEDING 150mm. LOAD – Ss = 2.7 KPA Sr = 0.2 KPa MODIFY FOR EXPOSURE AND DRIFT PER AS NBC-1995. q(1:30) = 0.69 kPa q(1:100) = 0.84 kPa ZA = 1.01.05 중중점 7.2 KPG 9.6 KPG = 72 V = 0.05 MODIFY AS PER NBC 1995 5 12 SEALANTS VOID FORM: 100 THICK EXPANDED OR EXTRUDED POLYSTYREME. TOP SHEET TO BE 12mm THICK PLYMOOD. COVER AND WRAP EDGES WITH 6 mil POLY. DEFORMED BARS CONFORMING TO CSA 630.12M GRADE 400. THES AND STIRRUPS TO CSA 630.12M GRADE 400. PVC WATER STOPS: HIGH STRENGTH POLY VINYLE CHLORIDE WATER STOP C/W PREWELDED JOINTS TO RESIST FLUID PRESSURES INDICATED. EPOXY ANCHORS: OF DIAMETER & PENETRATION SHOWN, SHEAR AND TENSION CAPACITIES ARE BASED ON HILTI HYT50 + HIT—HAS SUPER HARDWARE, SUBMIT ANCHOR LOAD RESISTANCE DATA FROM INDEPENDANT TESTING FIRM FOR REVIEW BY ENGINEER MIN 2 WEEKS PRIOR TO NYENGED USE. CONCRETE COVER TO REINFORCING STEEL HPE WATER STOPS: ONE COMPONENT, HYDROPHYLIC POLYURETHANE BASED EXTRUDABLE SWELLING PROFILE WATER STOP FOR CONSTRUCTION JOINTS. NON-FERROUS GROUT: PRE-MIXED NON SHRINK, MASTER BUILDERS 713, STERNSON M-BED, OPD NON SHRINK GROUT, STELL CI GROUT, MINIMUM 35 MPG COMPRESSIVE STRENGTH, OR EPOXY GROUT STERNSON TALYGROUT. CONTROL JOINTS FOR SLAB ON GRADE: SAW CUT CONTROL JOINTS AS PER CSA CAND-A23.1 LOCATIONS AS PER DRAWNINGS OR MAXIMUM 4500mm ON CENTER, CLEAN AND FILL WITH SEALMT. CRYSTALLINE CEMENT SLURRY, NON SOULABLE CTRYSTALLINE CEMENTITIOUS COMPOUND (XYPEX CONCENTRATE OR APPROVED ALTERNATE) HYDRAULIC CEMENT GROUT: FAST SETTING, NON SHRINK, HIGH STRENGTH, NON SOULUABLE CTRYSTALLINE HYDRAULIC CEMENT COMPOUND (XYPEX ADMIX APPROVED ALTERNATE) VAPOUR BARBER: 0.28mm CLEAR, OR BLACK, POLYETHYLENE FILM, UN-REINFORCED, WITH SELF AND HESVE FOLKETHYLENE TAPE FOR JOINTS, SUITABLE FOR BELOW GRADE USE. LAP JOINTS & REPAIRS MIN 300mm VNYL FOAM RODS: CLOSED CELL VNYL FOAM RODS AS REQUIRED BY DRAWING DETAILS. 90% RECOVERY AFTER 50% COMPRESSION © 380 KPg pressure. EXPANSION ANCHORES OF DIAMETER & PENETRATION SHOWN, CAPACITIES ARE BASED ON HILT KIMK BOLITS. SUBMIT ANCHOR, DIAAD RESISTANCE DATA, FROM INDEPENDANT TESTING FIRM FOR REVIEW BY ENGINEER MIN 2 WEEKS PRIOR TO INTENDED USE. provide recesses in the top of foundation walls and grade beams at all door openings, to allow slab-on-grade to continue over. ALL CONCRETE USED FOR WATER OR SEWAGE CONTAINMENT TO CONTAIN STRENGTHENING/WATER RETAINING ENHANCEMENT ADMIXTURE SEE SPECIFICATIONS SPECIFIED SLUMPS ARE PRIOR TO THE ADDITION OF ANY APPROVED PLASTICIZING ADMIXTURE WHEN CONCRETE IS PLACED BY PUMPING, THE LISTED SLUMPS SHALL BE AT DISCHARGE CONCRETE REINFORCEMENT ADMIXTURES PROVIDE 20mm CHAMFER ON ALL EXPOSED CONCRETE CORNERS. CONSTRUCTION JOINTS, KEYED AND DOWELED AS DIRECTED BY ENGINEER UNLESS DETAILED BRAINICS. SUBMIT PROPOSED BETAIL AND LOCATION OF ALL CONSTRUCTION. JOINTS NOT SHOWN ON DRAININGS, TO OWNER FOR APPROVAL. ALL CONCRETE SHALL BE NORMAL WEIGHT 2400 KG/M3 UNLESS NOTED. ASPHALTIC FIBREBOARD: ASPHALT SATURATED FIBRE BOARD CONFORMING TO ASTM D1751 ACRYLIC BONDING AGENT: OPD ACRYLIC CONCRETE ADHESIVE, THROSYSTEMS ACRYL 60, STERNSON DURAMELD C, ELSRO FLEX-CON 710, MIXED WITH CEMENT AS RECOMMENDED BY MANUFACTURER. POXY BONDING AGENTS: TWO COMPONENT, WATER BASED, EPOXY RESIN / CEMENT BONDING AGENT CONCRETE ACCESSORIES PERRY SIZE AND LOCATION OF ALL MECHANICAL OPENINGS, CURBS, EQUIPMENT FAAS WITH MECHANICAL DRAWNISS AND MECHANICAL CONTRACTOR, (MAJOR OPENINGS NOT SHOWN TO BE VERRED WITH ENGINEER). PLOYURETHANE SEALANT (VERTICAL JOINT): WITHSTAND A MAXIMUM OF 25% JOINT MOVEMENT SIKAFLEX 10, PRC 270, VULKEM 116 INTERIOR SAM CUT JONIT OR CONTROL JONIT SEALANT: CAFALYST CIRED FROXY RUBBER, STENSON LOADPLEX, SEALTIONT BONDFLEX, CONCRETE CHEMICALS 9038 FLEXIBLE SEALANT, ALLED COATINGS AC-1210 FLEXIBLE EPOXY SEALANT CONCRETE AGAINST EARTH EXTERIOR SLABS, BEAMS OTHER INTERIOR SLABS, BEAMS, WALLS WATER SEALING ADMIXTURE: WATER BASED, HIGH POLYMER DISPERSION SPECIFICALLY DESIGNED TO FORTIFY PORTLAND CEMENT COMPOSITIONS, ENHANCE WATER RESISTANCE CAMACITERISTICS AND REDUCE CONCRETE SHRINKAGE (XYPEX ADMIX OR APPROVED ALTERNATE) POZZOLANIC MINERAL: CONFORMING TO CAN/CSA-A23.5 CHEMICAL: CONFORMING TO CAN 3-A266.2 AIR ENTRAINMENT: CONFORMING TO CSA CAN 3-A266.1 PRIMERS: AS SUPPLIED BY SEALANT BY SEALANT MANUFACTURERS POLYURETHANE SEALANT (HORZONTAL JOINT): WITHSTAND A MAXIMUM OF 25% JOINT MOVEMENT SIKAFLEX 12-SL, PRC 6006, VULKEM 45. HEADWORKS CHANNELS AND WIRES

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DRAWINGS FOR REVIEW PRIOR TO FABRICATION	NOTED,
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	rwise noted, all dowels to project a minimum of 40 bar diameters into Ll from face of support.

S Earth Tech

Tel. 780-488-6800 Fax. 780-488-2121 www.earthtech.ca

11. UNLESS OTHE SLAB OR WAL

GENERAL NOTES

STRUCTURAL METAL FRAMING

- FABRICATE AND ERECT STRUCTURAL STEEL TO CSA CAN3-16.1-LATEST EDITION.
- PROVIDE STRUCTURAL STEEL TO CSA G40.21-LATEST EDITION WITH THE FOLLOWING GRADES
- WIDE IT ANCE BEAMS:
 CHANNELS AND ANGLES:
 HSS SECTIONS (CLASS "C"):
 STRUCTURAL BARS AND PLATES:
 MISCELLANEOUS STEEL:
 ANCHOR BOLTS:
- dimensions shown are to center lines of sections and to back of channels or angles. Elevations shown are to top of steel ν/N . FABRICATOR TO BE CERTIFIED AS A DIVISION 1 OR 2 COMPANY UNDER CSA W47.1. SUBMITSHOP DRAWNOS FOR REVIEW PRIOR TO FABRICATION.
- MELD TO CSA W59-M85 BY FABRICATORS QUALIFIED TO CSA W47.1-83.
- IELD WELDING AND FIELD MODIFICATION OF STRUCTURAL STEEL SHALL NOT BE ALLOWED WITHOUT PRIOR REVIEW AND APPROVAL BY THE ENGINEER.
- TEMPORARY BRACING DIRING CONSTRUCTION TO BE DESIGNED BY CONTRACTOR. ERECTION BRACING SHALL BE REMOVED DUT AFTER PERMANENT FLOOR DIAPRACHS, ROOF DIAPHRICHS, SHEER WALLS AND PERMANENT BRACING ARE COMPLETED.

3 8 8 đ COVERAGE (mm)

DESIGN LOADS

.1) GROUND SNOW

.3) SEISMIC

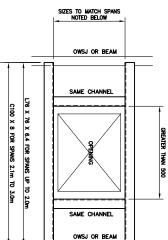
WIND LOAD

- CONNECTIONS NOT DETAILED ON THE STRUCTURAL DRAWNICS SHALL BE DESINED AND DETAILED BY THE STREET FABRICATOR. FACTORED (UNFACTORED) LOADS FOR THESE CONNECTIONS ARE SHOWN ON THE DRAWNICS. MORRIT IS DENOTED AL IN KIN-M. TRISON IS DENOTED TO, COMPRESSON IS DENOTED C. OTHERWAST LOADS ARE SHERR LOADS. LOADS ALLOWED TO, CONNECTION FOR THE ALLOWARD FOR THE FACTOR OF THE ALLOWARD FOR THE SHALL SHALL BE SHAUDED TO ALBERTS SHALL SHALL BE FRICTION ALBERT OF SHAUDES REFERSAL SHALL BE FRICTION TYPE. (MASK CONTACT SURFACES BEFORE PAINTING.)
- MINIMUM WELDS FOR CONNECTIONS SHALL BE 5mm FILLET WELD AND WHERE EXPOSED IN FINISHED BUILDING WELD SHALL BE GROUND SMOOTH.
- 10. PROVIDE SITEFERER PERLENING PLATES ON BOTH SIDES OF W-SHAPE AND ON ONE SIDE OF SUPPLEMENT AT ALL COLLINONS WHERE CONCENTRATED LOADS COLLIN (EXCLUDING DISTANCE CONCENTRATED LOADS COLLIN (EXCLUDING DISTANCE SHALL EQUAL HALF THE BEAM WIDTH, BE THALL HANGES, AND HAVE A MINIMUM THOMESS OF Brim BUT SHALL NOT DE THINNERS THAN THE WEB OF THE BEAM. PROVIDE BOLT HOLES IN STRUCTURAL STEEL WHERE SHOWN AND WHERE REQUIRED FOR THE ATTACHMENT OF BOLTED BLOCKING OR FASTENINGS BY OTHER TRADES.
- PROVIDE CLOSURE PLATES AT ALL OPEN ENDS OF ALL HSS MEMBERS AND SEAL WELD. PLATE THICKNESS TO EQUAL WALL THICKNESS OF HSS MEMBER.
- PRAME ALL OPENINGS IN ROOF AND FLOOR DECK, ROUND AND RECTANDILAR, THAT ARE LARGER THAN ADDRESS, CONNECT DOCUMENTS, FRAME BACK TO STRUCTURE AS PER TYPICAL ROOF OPENING FRAMING DETAIL.
- ü GROUT UNDER BEARING PLATES INSTALLED IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATION.
- CLEM ALL STEL PRIOR TO PAINTING TO SSPC SUPFACE PREPARATION SPECIFICATION NO. 7 "BRUSH-OFF BLAST CLEANING" EXCEPT STRUCTURAL STELL MEMBERS WHICH ARE EXPOSED IN THE COMPLETED STRUCTURE IN WHICH CASE CLEANING SHALL COMPORAL TO SSPC SUPFACE PREPARATION SPECIFICATION NO. 6 "COMMERCIAL BLAST CLEANING".

METAL JOISTS

- DESIGN AND FABRICATE OPEN WEB STEEL JOISTS TO CSA CAN3—S16.1 (LATEST EDITION) FOR DEPTHS, DETAILS, AND LOADING SHOWN ON THE DRAWNGS.
- SIBMIT SHOP DEAWNOS FOR RENEW PRIOR TO FABRICATION. SHOP DRAWNOS SHALL SHOW DETAILS, MATERIALS, UNIFORM AND CONCENTRATED DESIGN LOADS, BRIDGING AND ACCESSORES. SHOP DRAWNOS SHALL BE SEALED BY A QUALIFED PROFESSIONAL ENGINEER REGISTERED IN THE NORTHWEST TERRITORIES, NUNAVAUT.
- CAMBER REQUIREMENTS AND DEFLECTION LIMITATIONS TO CSA 516.1 UNLESS NOTED ON DRAWNIGS.
- PROVIDE PERMANENT BRIDGING FOR ALL JOISTS IN ACCORDANCE WITH CSA CANS-S16.1-(LATEST EDITION), UNLESS INDICATED OTHERWISE.
- STEEL JOIST SUPPLIER TO COORDINATE OWSJ WEB CONFIGURATION AND BRIDGING TYPE AND OCATIONS WITH MECHANICAL CONTRACTOR TO ENSURE FITMENT OF ALL DUCT AND PIPE RUNS.
- PROVIDE TEMPORARY BRACING AS REQUIRED DURING CONSTRUCTION. CLEANING PREPARATION AND PAINTING SHALL CONFORM TO STRUCTURAL STEEL REQUIREMENTS.

- DESIGN, FABRICATE AND INSTALL STEEL DECK TO CSA 5136-(LATEST EDITION) AND THE CANADIAN SHEET STEEL BUILDING INSTITUTE STANDARDS.
- ROOF DECKING PROFILE: 38mm DEEP MINIMUM 0.76mm (22 GA.) ZINC COATED STEEL CONFORMING TO ASTM A448.
- FLOOR DECKING PROFILE: 38mm; 0.76 ZINC COATED CONFORMING TO ASTM A446.PROVIDE DEFORMED STEEL DECKING FOR COMPOSITE FLOORS WHERE SPECIFIED ON THE DRAWINGS.
- ZINC COATING TO ASTM A525 275 G/M. WIPE COAT GALVANIZING IS NOT ACCEPTABLE.
- NSTALL DECKING CONTINUOUS OVER MINIMUM THREE SPANS EXCEPT WHERE OTHERWISE APPROVED. MINIMUM BEARING EQUAL TO DECK DEPTH, LAP JOINTS 75mm AT STRUCTURAL SUPPORTS.
- WELD BECK TO SUPPORTING STEEL WITH.
 20mm DUAKETER JUSKUM WELDS USING WELD WASHERS WHERE NECESSARY, SIDE LAPS
 FASTENED BY BUTTON PANCHING. CLINCHING, TRANSVERSE WELDS, LOWGITUDINAL WELDS AND
 FERMETER WELD REQUIREMENTS AS FER DRAWINGS. TRANSVERSE WELDING 4 TRANSVERSE
 WELDS FER SUPPORT (300 O.C. MAX) LONGTUDINAL WELDS 600 O.C. MAXIMUM BUTTON
 PUNCHING 600 O.C.
- PAINT ALL WELDS WITH GALVICON.
- cut openings in the decking where indicated on the drawings and in cooperation with other trades. Reinforc openings between 150mm and 400mm with 65 \times 65 \times 5 angle perpendicular to futiles welded to deck and extended 2 futiles each side of opening. Openings larger than 500mm SUBMIT SHOP DRAWINGS SHOWING ALL DETAILS, MATERIAL SPECIFICATIONS AND DESIGN LOADS



OPENINGS LAI TO BE REINFO FLUTES WELD! OF OPENING. FOR OPENING OPENINGS UP IS LARGER THAN 500mm REINFORCE OPENING AS IRGER THAN 150mm BUT LESS THAN 500mm ARE ORCED WITH L65 X 65 X 5 PERPENDICULAR TO DECK AND EXTENDED 2 FLUTES EACH SIDE TO 150mm DO NOT REQUIRE REINFORCING.

C150 X 10 FOR SPANS 3.1m TO 4.0m

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	PERMIT NUMBER: P 005 The Association of Professional Engineers, Geologists and Geophysicists of the NWT/NU	Signature

PERMIT TO PRACTICE EARTH TECH (CANADA) INC.





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