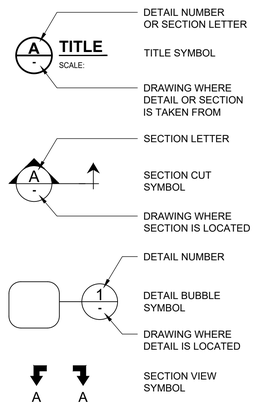
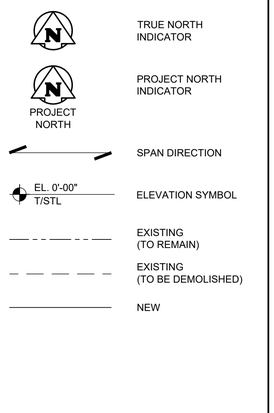
plotscale - 1:1 (metric)

sheet size - Super A1 24" x 36"

## SYMBOLS & LINETYPES




## GENERAL NOTES:

1. THIS STRUCTURE HAS BEEN DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF PART 4 OF THE MANITOBA BUILDING CODE-2024.
2. ALL SPECIFICATIONS AND CODES SPECIFIED SHALL BE THE LATEST REVISION AVAILABLE.
3. SITE VERIFY ALL DIMENSIONS, ELEVATIONS, DETAILS, QUANTITIES AND CONDITIONS PRIOR TO START OF ANY DEMOLITION, CONSTRUCTION OR PREFABRICATION OF ANY STRUCTURAL COMPONENT.
4. EXISTING STRUCTURAL SUPPORTS WHICH INTERFERE WITH NEW WORK SHALL BE RELOCATED UPON APPROVAL BY THE DESIGN ENGINEER.
5. THE CONTRACTOR SHALL ENSURE THAT ALL BURIED SERVICES ARE LOCATED AND MARKED PRIOR TO EXCAVATION.
6. ALL BUILDING SYSTEMS COMPONENTS SHALL BE THE PRODUCTS OF A SINGLE MANUFACTURER UNLESS SPECIFIED OTHERWISE.
7. SHIP, STORE, HANDLE, ERECT, INSTALL, ETC. ALL BUILDING MATERIALS, COMPONENTS, FIXTURES, EQUIPMENT, ETC. AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
8. ALL DEMOLITION, FABRICATION, CONSTRUCTION, ETC. SHALL BE CARRIED OUT IN ACCORDANCE WITH ALL PERTINENT BUILDING CODES, AND LOCAL BYLAWS AND ORDINANCES.
9. EACH TRADE SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE PROTECTION FOR THE EXISTING FACILITY/PROPERTY TO PREVENT PHYSICAL DAMAGE AND LOSS OF VALUE OR USE OF ANY KIND, AS A RESULT OF DEMOLITION, CONSTRUCTION AND RELATED ACTIVITIES.
10. TIME AND DURATION OF ANY NECESSARY DISRUPTION IN THE USE OF ANY ROOM, SPACE, SERVICE, EQUIPMENT, ETC. SHALL BE COORDINATED WITH, AND APPROVED BY THE OWNER AT THE START OF THE PROJECT. PROVIDE OWNER WITH MINIMUM ONE WEEK NOTICE (OR AS REQUIRED) PRIOR TO EACH ACTUAL OCCURRENCE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE OWNER AND THE DESIGN ENGINEER OF ANY PREVIOUSLY UNNOTICED PRE-EXISTING FLAW OR CONDITION THAT MIGHT INCREASE THE SCOPE OF WORK OR COMPROMISE NEW CONSTRUCTION, PRIOR TO THE START OF DEMOLITION AND CONSTRUCTION, OR AS SOON AS IT IS DISCOVERED.
12. DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE PROJECT TECHNICAL SPECIFICATIONS.

## DEMOLITION:

1. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL PERTINENT BUILDING CODES, THE MANITOBA DEPARTMENT OF LABOUR, AND ANY OTHER PROVINCIAL AND LOCAL BY-LAWS, REGULATIONS AND ORDINANCES.
2. DEMOLITION SHALL INCLUDE THE SAFE REMOVAL, HAULING AND DUMPING OF ALL DEBRIS, ETC. TO AN APPROVED SITE. ALL COSTS ASSOCIATED WITH THIS OPERATION, INCLUDING TRANSPORT, LICENSES AND FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. COORDINATE THE MOVING AND STORAGE OF SALVAGED ITEMS, MATERIALS, EQUIPMENT, ETC. WITH THE OWNER.
4. ALL EXISTING STRUCTURE IS TO DEMOLISHED A MINIMUM OF 300 BELOW THE PROPOSED NEW STRUCTURE. REFER TO ORIGINAL CONSTRUCTION DRAWINGS FOR EXISTING ELEVATIONS OF STRUCTURE AND NEW L.ARCH DRAWINGS FOR PROPOSED NEW CONSTRUCTION ELEVATIONS.

## STRUCTURAL DRAWING LIST


| DWG. No. | DESCRIPTION |
|---|---|
| S0.1 | GENERAL NOTES |
| S1.0 | SITE PLAN |
| S2.0 | SECTIONS AND DETAILS |


## EXCAVATION & BACKFILL:

1. REMOVE ALL FILL MATERIALS, DELETERIOUS SOILS AND ORGANICS IN AREAS REQUIRING GRANULAR BASE MATERIALS. COMPACT SUBGRADE TO 95% STANDARD PROCTOR DENSITY. SUB-EXCAVATE AND REPAIR ALL AREA EXHIBITING UNSUITABLE DEFLECTIONS.
2. GRANULAR BASE TO BE PLACED ON GRADE SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY IN MAXIMUM 150mm LIFTS.
3. DO NOT COMPACT FROZEN BACKFILL OR PLACE ON FROZEN SUBGRADE.
4. SUB-GRADE, SUB-BASE AND BASE COURSE MATERIALS AND CONSTRUCTION METHODS SHALL BE AS PER CITY OF WINNIPEG SPECIFICATION CW3110 UNLESS NOTED.
5. SUBGRADE AND BASE COURSE INSTALLATION SHALL BE INSPECTED AND APPROVED BY OWNER'S GEOTECHNICAL ENGINEER, REGISTERED IN THE PROVINCE OF MANITOBA, AT CONSTRUCTION PHASES AS DETERMINED BY THE GEOTECHNICAL ENGINEER, BEFORE WORK IS TO COMMENCE.

## FOUNDATIONS (CONCRETE FOOTINGS):

1. FOUNDATIONS SHALL BE CAST-IN-PLACE CONCRETE FOOTINGS AS SHOWN ON DRAWINGS.
2. CONCRETE FOOTINGS HAVE BEEN DESIGNED FOR AN AVERAGE FACTORED ULTIMATE BEARING CAPACITY OF 75 kPa.
3. INSTALLATION OF ALL CONCRETE FOOTINGS SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA, PRIOR TO PLACEMENT OF CONCRETE.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND SERVICES IN EXCAVATION AREA WHETHER SHOWN OR NOT. EXPOSE ALL SERVICES CLOSE TO EXCAVATION AS REQUIRED.
5. FOOTINGS SHALL NOT BE MORE THAN 50mm OUT OF POSITION LATERALLY, AND NOT MORE THAN 2% OUT OF LEVEL.
6. REINFORCE ALL FOOTINGS AS DETAILED ON THE DRAWINGS.
7. REFER TO CONCRETE NOTES FOR CONCRETE REQUIREMENTS.
8. FOOTINGS SHALL NOT BE INSTALLED ON FROZEN GROUND OF ANY KIND. BEARING MATERIAL SHALL NOT BE ALLOWED TO FREEZE DURING INSTALLATION OF FOOTINGS OR ANY TIME THEREAFTER.

## REINFORCING STEEL:

1. REINFORCING STEEL TO BE NEW DEFORMED BILLET STEEL BARS CONFORMING TO CSA G30.18-09 (R2014). GRADE TO BE 400 MPa.
2. REINFORCING STEEL SHALL BE CLEAN, FREE OF RUST, DIRT, LOOSE SCALE, OIL, GREASE OR ANY OTHER MATERIAL WHICH WOULD REDUCE BOND WITH THE CONCRETE.
3. SUBMIT SHOP DRAWINGS WHICH CLEARLY INDICATE BAR SIZES, SPACINGS, LOCATIONS & QUANTITIES OF REINFORCING STEEL, BENDING & CUTTING SCHEDULES, SUPPORTING & SPACING DEVICES, ETC. FOR REVIEW PRIOR TO FABRICATION. DETAIL, FABRICATE AND PLACE REINFORCING IN ACCORDANCE WITH CSA A23.1-09, CSA A23.3-09 AND ACI SP-66 (2004) UNLESS NOTED. LAP STEEL 36 BAR DIAMETERS (MINIMUM) UNLESS NOTED.
4. LAP BEAM AND STRUCTURAL SLAB TOP REINFORCING AT CENTER SPAN, AND BOTTOM STEEL AT SUPPORTS.
5. BEND ALL HORIZONTAL REINFORCING 305mm AROUND CORNERS OR PROVIDE ADDITIONAL 610mm X 610mm ANGLE BARS.
6. PROVIDE AT EACH FACE, 2-15M EXTRA BARS ALONG ALL SIDES, AND 2-15M DIAGONAL BARS AT ALL CORNERS OF OPENINGS UNLESS NOTED. PROJECT ALL BARS 610mm PAST CORNERS.
7. TIE, SUPPORT AND SPACE ALL REINFORCING STEEL WITH PROPER APPROVED DEVICES DESIGNED FOR USE IN REINFORCED CONCRETE, TO PREVENT DISPLACEMENT OF REINFORCING AND ENSURE SPECIFIED CONCRETE COVER.
8. PROVIDE MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:

| | |
|---|---|
| FOOTINGS AND CONCRETE WALLS | 40mm |
| GRADE BEAMS (SIDES) | 40mm |
| SLAB-ON-GRADE (TOP) | 60mm |
| STRUCTURAL SLAB (TOP & BOTTOM) | 40mm |

## CONCRETE:

1. CONCRETE MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CSA A23.1-09 (R2014). SEE BELOW FOR MIX REQUIREMENTS.
2. ADMIXTURES SHALL NOT BE USED UNLESS SPECIFIED HEREIN OR APPROVED BY THE DESIGN ENGINEER. CALCIUM CHLORIDE SHALL NOT BE USED.
3. DESIGN, FABRICATE AND ERECT FORMWORK/SHORING IN ACCORDANCE WITH CAN/CSA-S269.1-16. ALLOW SUFFICIENT CONCRETE CURING TIME PRIOR TO REMOVAL.
4. CONCRETE FINISHING SHALL MEET THE REQUIREMENTS OF CSA A23.1-09 (R2014).
5. FORM RELEASE AGENT SHALL BE BIODEGRADABLE, NON-STAINING AND NON-VOLATILE.
6. PROVIDE ADEQUATE COLD/HOT WEATHER PROTECTION AS REQUIRED DURING CURING PERIOD.
7. PLACE AND SECURE ALL EMBEDDED ANCHORS, WELD PLATES, SLEEVES, BUCKS, DOWELS, INSERTS, WATERSTOPS, ETC., PRIOR TO PLACING CONCRETE. CO-ORDINATE WITH ALL TRADES FOR EMBEDDING OF ALL OTHER, CONDUIT, SERVICES, BLOCKING, ETC.
8. LOCATE AND FABRICATE ALL CONSTRUCTION JOINTS, CONTROL JOINTS AND EXPANSION JOINTS AS DETAILED ON THE DRAWINGS. JOINTS NOT SHOWN SHALL BE APPROVED BY THE DESIGN ENGINEER PRIOR TO THE PLACEMENT OF CONCRETE.
9. ALL EXPOSED CORNERS TO HAVE 25mm CHAMFER FILLET UNLESS NOTED.
10. SAWCUTS TO BE 3mm WIDE X 25mm DEEP AT A SPACING OF 6100mm MAXIMUM, AS NOTED ON DRAWINGS, WITHIN 24 HOURS OF POUR. SAW CUTS TO BE FILLED WITH SIKA SELF-LEVELLING OR APPROVED EQUAL. INSTALL AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
11. CAST-IN-PLACE ANCHOR BOLTS SHALL MEET REQUIREMENTS OF ASTM F1554-GRADE 36.
12. EXPANSION ANCHORS SHALL BE HILTI KWIK-BOLTS OR APPROVED EQUAL, UNLESS NOTED. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.
13. ADHESIVE ANCHORS SHALL BE HAS RODS W/ HILTI HIT-HY 200 ADHESIVE OR APPROVED EQUAL, UNLESS NOTED. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.
14. GROUT REINFORCING DOWELS WITH EPOXY GROUT HILTI HIT-HY 200, OR APPROVED EQUAL. GROUT BASE PLATES WITH NON-SHRINK GROUT SIKA M-BED STANDARD, OR APPROVED EQUAL. PLACE AND CURE ALL GROUT WITHIN TEMPERATURE RANGE RECOMMENDED BY MANUFACTURER.
15. BONDING AGENTS SHALL BE USED TO ADHERE NEW CONCRETE TO EXISTING CONCRETE OR STEEL. ACCEPTABLE PRODUCT: SIKADUR 32 HI-MOD OR APPROVED EQUAL.
16. THE CONCRETE SUPPLIER SHALL BE CERTIFIED TO MEET THE REQUIREMENTS OF CSA A23.1-09 (R2014).
17. THE CONCRETE SUPPLIER SHALL SUBMIT CONCRETE MIX DATA SUBMISSION FORMS FOR EACH TYPE OF CONCRETE SPECIFIED FOR REVIEW PRIOR TO BATCHING ANY CONCRETE.
18. CONCRETE STRENGTH TESTS SHALL BE ARRANGED BY THE CONTRACTOR. PROVIDE ONE SET OF TEST CYLINDERS IN ACCORDANCE WITH CSA A23.1-14 FOR EVERY 50 CUBIC METERS OF CONCRETE PLACED AND A MINIMUM OF ONE SET PER STRUCTURAL COMPONENT.

## SLAB ON GRADE & SHALLOW FOUNDATIONS:

1. SLAB ON GRADE FLOORS AND SHALLOW FOUNDATIONS WILL EXPERIENCE SOME LEVEL OF MOVEMENT AND CRACKING. THE STABILITY OF A SLAB ON GRADE AND SHALLOW FOUNDATION IS PRIMARILY DETERMINED BY THE CHARACTERISTICS OF THE UNDERLYING SOIL. THEREFORE, MOVEMENT LEADING TO DISPLACEMENT AND CRACKING OF THE SLAB IS TO BE EXPECTED, IT IS NOT POSSIBLE TO PRECISELY DEFINE THE LIMITS OF MOVEMENT, AS FACTORS SUCH AS SOIL MOISTURE CONTENT, WATER TABLE, AND THE PRESENCE OF SILT POCKETS, AMONG OTHERS, CAN SIGNIFICANTLY IMPACT THE SUPPORTING SOIL. THE OWNER ASSUMES FULL RESPONSIBILITY FOR ANY RISKS RELATED TO A SLAB ON GRADE.

## CONCRETE MIX DESIGNS:

CONCRETE MIX DESIGN SHALL BE PROPORTIONED TO MEET THE FOLLOWING PERFORMANCE REQUIREMENTS:

FOOTINGS AND CONCRETE WALLS:

| | |
|---|---|
| EXPOSURE CLASS | S-2 |
| MIN. 28 DAY COMP. STRENGTH | 30 MPa |
| MIN. 56 DAY COMP. STRENGTH | 32 MPa |
| AIR CONTENT CATEGORY | 1 |

EXTERIOR SLABS (STRUCTURAL):

| | |
|---|---|
| EXPOSURE CLASS | C-1 |
| MIN. 28 DAY COMP. STRENGTH | 35 MPa |
| AIR CONTENT CATEGORY | 1 |

EXTERIOR SLABS (NON-STRUCTURAL):

| | |
|---|---|
| EXPOSURE CLASS | C-2 |
| MIN. 28 DAY COMP. STRENGTH | 32 MPa |
| AIR CONTENT CATEGORY | 1 |

## SCREW PILES:

1. LOCATIONS OF ALL UNDERGROUND PIPING LINES AND UTILITIES WHICH MAY INTERFERE WITH PILES SHOULD BE VERIFIED PRIOR TO DRILLING. OBTAIN ALL NECESSARY PERMITS PRIOR TO PILE INSTALLATION. SHOULD ANY INTERFERENCE OCCUR, THE CONTRACTOR SHALL NOTIFY OWNER BEFORE DRILLING COMMENCES OR CONTINUES.
2. ALL SCREW PILES SHALL BE CCMC CERTIFIED, WITH EVIDENCE OF CERTIFICATION AVAILABLE UPON REQUEST. CONTRACTOR TO PROVIDE CANADIAN-GENERATED MILL CERTIFICATES FOR ALL HELICAL PILES.
3. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SUBMIT A DESIGN REPORT FROM THE SCREW PILE MANUFACTURER STATING THE FOLLOWING INFORMATION:
   a. THE SPECIFIC LOCATION OF THE PROJECT.
   b. THE SOIL PROPERTIES USED IN THE DESIGN OF THE PILE CAPACITIES.
   c. THE DESIGN METHOD BY WHICH THE PILE CAPACITIES WERE DETERMINED.
   d. LIMIT STATES RESISTANCE CAPACITIES FOR THE PILES FOR SERVICEABILITY LIMIT STATES (SLS) AND ULTIMATE LIMIT STATES (ULS) FOR COMPRESSION, UPLIFT AND LATERAL MODES.
   e. CRITERIA BY WHICH PROPER INSTALLATION SHALL BE DETERMINED.
   f. SEAL OF ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF MANITOBA.
   g. CORROSION PROTECTION REQUIREMENTS (SACRIFICIAL LAYER, SACRIFICIAL ANODE, GALVANIZING, ETC.) TO ENSURE THE PILES ACHIEVE A DESIGN LIFE OF 75 YEARS, OR AS DIRECTED BY THE OWNER.
4. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SEALED BY AN ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF MANITOBA THAT INDICATE THE FOLLOWING:
   a. THE LOCATION OF THE PROJECT.
   b. GENERAL ARRANGEMENT OF PILES.
   c. DIMENSIONAL DEFINITION OF THE SCREW PILES.
   d. MATERIAL AND FINISHES OF THE SCREW PILES.
   e. THE SLS AND ULS LOAD RESISTANCES FOR COMPRESSION, UPLIFT AND LATERAL MODES.
   f. CORROSION PROTECTION REQUIREMENTS (SACRIFICIAL LAYER, SACRIFICIAL ANODE, GALVANIZING, ETC) TO ENSURE THE PILES ACHIEVE A DESIGN LIFE OF 75 YEARS, OR AS DIRECTED BY THE OWNER.
   g. CONNECTION DETAILS.
   h. DIAMETER AND THICKNESS OF PIPE AND HELIX.
   i. PILE DEPTH.
   j. NUMBER AND SPACING OF HELIXES.
   k. CAP BRACKET DETAILS.
5. POST INSTALLATION, THE CONTRACTOR SHALL SUBMIT A CONFIRMATION REPORT, SEALED BY AN ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF MANITOBA, CONFIRMING THE PILE INSTALLATION UPON COMPLETION, SPECIFICALLY NOTING THAT THE ASSUMED DESIGN SOIL CONDITIONS WERE MET AND THE PROPER INSTALLATION CRITERIA AND FACTORED MAX PILE LOADS NOTED IN THE DRAWING WERE ATTAINED. REPORT TO ALSO INCLUDE:
   - PILE TYPE.
   - PILE INSTALLATION DEPTH.
   - PILE INSTALLATION TORQUE.
   - LOAD CAPACITY ACHIEVED.
   - INSTALLATION LOGS.
   - LAYOUT PLANS (IF DEVIATIONS ON SITE OCCURRED).
   - FINAL PILE SHOP DRAWINGS (IF DEVIATIONS ON SITE OCCURRED).
6. ALL ELEVATIONS SHOWN ARE LOCAL AND SHALL BE CONFIRMED BY THE CONTRACTOR.
7. ALL PILES SHALL BE INSTALLED TO A MINIMUM DEPTH OF 4267 UNLESS NOTED IN THE GEOTECH REPORT AND TO A TORQUE VALUE NECESSARY TO ACHIEVE REQUIRED CAPACITY.
8. THE CONTRACTOR SHALL SUPPLY THE OWNER WITH THE INSTALLATION TORQUE OF EACH PILE. THE TORQUE VALUE SHALL BE AVERAGED OVER 600mm INTERVALS DURING INSTALLATION OF EACH PILE WITHIN 1800mm OF THE FINAL PILE INSTALLATION DEPTH.
9. THE CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY OF ANY PILE NOT IN CONFORMANCE WITH THE DRAWINGS AND THESE SPECIFICATIONS.
10. ALL PIPE SPLICES SHALL BE FULL STRENGTH COMPLETE PENETRATION GROOVE WELDS OR THE COMBINATION OF A COLLAR AND CONTINUOUS FILLET WELD ON EACH END OF THE COLLAR TO ENSURE CONTINUITY OF PIPE.
11. WELDING PROCEDURE AND WELDER QUALIFICATION SHALL CONFORM TO CSA W59 AND CSA W47.1. WELDING ELECTRODES SHALL BE E48018 CLASSIFICATION CONFORMING TO CSA W48.1.
12. POSITION OF PILES SHALL BE CONSIDERED SATISFACTORY PROVIDING THE FOLLOWING CONDITIONS ARE MET:
   - PILE TOPS ARE LOCATED WITHIN 25MM OF THE POSITION SPECIFIED ON THE DRAWINGS. DIMENSIONS FROM CENTRELINE OF EQUIPMENT GOVERN.
   - PILES ARE WITHIN 2% INCLINATION FROM THE VERTICAL OR SPECIFIED INCLINATION.
   - THE PILES, AS PLACED, ARE NOT STRUCTURALLY DAMAGED.
12. CHANGES OR REPAIRS OF STRUCTURAL DAMAGE DUE TO IMPROPER PLACEMENT OF PILES SHALL BE MADE AS DIRECTED BY OWNER AT THE CONTRACTOR'S EXPENSE.
13. PILE DRILLING RECORDS FOR ALL PILES SHALL BE PROVIDED TO OWNER.
14. PRE-DRILL HOLES THROUGH FROST IF REQUIRED.
15. REFER TO GEOTECHNICAL REPORT FOR SCREW PILE DESIGN, AS REQUIRED BY SCREW PILE DESIGNER.

## STRUCTURAL AND MISCELLANEOUS STEEL:

1. STRUCTURAL AND MISCELLANEOUS STEEL FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH CAN/CSA S16 (2014).
2. STRUCTURAL STEEL SHALL MEET THE REQUIREMENTS OF CAN/CSA G40.20/G40.21 (2013).

| | |
|---|---|
| ROLLED W-SHAPES | CSA G40.21-350W |
| ROLLED SHAPES & PLATES | CSA G40.21-300W |
| HSS SECTIONS | CSA G40.21-350W CLASS C |
| STANDARD PIPE | ASTM A53-12 |
| COLD FORMED STEEL | CSA S136-12 |
| ANCHOR BOLTS (GALV.) | ASTM F1554-20 GRADE 36 GALV. |
| BOLTS, NUTS, & WASHERS | ASTM F3125-21 GRADE A325 |
| WELDING ELECTRODES | CSA W48-14 |

3. WELDING SHALL BE IN ACCORDANCE WITH CSA W59 (2013), BY WELDERS CERTIFIED AND QUALIFIED IN ACCORDANCE WITH CSA W47.1-09 (R2014). ALL WELDS TO BE 6mm UNLESS NOTED OTHERWISE.
4. FIELD CONNECTIONS SHALL BE BOLTED 19mm DIAMETER A325 BEARING TYPE UNLESS NOTED OTHERWISE. BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH CSA S16 (2014).
5. CONTRACTOR SHALL SUBMIT P. ENG. SEALED SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.
6. STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FINISHED AS INDICATED BELOW, UNLESS OTHERWISE NOTED, OR APPROVED EQUAL.:

   GALVANIZED STEEL
   - SURFACE PREP. TO SP8 (PICKLING)
   - HOT DIPPED GALVANIZED TO ASTM A123-13

7. COLOUR OF STRUCTURAL AND MISCELLANEOUS STEEL: REFER TO ARCH.
8. FIELD TOUCH-UP WITH ZINC-RICH COATING, TO MATCH GALVANIZED STEEL. ACCEPTABLE PRODUCT: ZINGA, GAL-VIZ OR APPROVED EQUAL.
9. FIELD TOUCH-UP PAINT TO CONNECTIONS, WELDS, BURNED OR DAMAGED SURFACES, AND UNFINISHED SURFACES AT COMPLETION OF ERECTION AND SHALL MATCH THICKNESS AS SPECIFIED.
10. PAINTED SURFACES OF EXISTING STEEL SHALL BE GROUND SMOOTH TO BARE METAL PRIOR TO FIELD WELDING.
11. HEAT STRAIGHTENING PROCEDURE SHALL BE APPROVED BY A WELDING ENGINEER AND BE SUBMITTED PRIOR TO REPAIR OF BENT MEMBERS.

## ALUMINUM:

1. ALUMINUM SHALL BE IN ACCORDANCE WITH CAN/CSA S157-05 (R2010) AND THE ALUMINUM ASSOCIATION "2015 SPECIFICATION FOR ALUMINUM STRUCTURES". ALUMINUM FOR PLATES AND EXTRUDED SHAPES SHALL BE TYPE 6061-T651.
2. ALUMINUM WELDING SHALL BE AN ACCORDANCE WITH CSA W59.2-M1991 (R2013) BY WELDERS CERTIFIED AND QUALIFIED IN ACCORDANCE WITH CSA W47.2-11. ALL WELDS TO BE 6mm UNLESS OTHERWISE NOTED.
3. INSTALL NYLTITE ELECTROCHEMICAL ISOLATION GASKETS TO ELECTRICALLY ISOLATE DISSIMILAR METALS (SUPPLIER: SPAENAUR).
4. ALL ALUMINUM IN CONTACT WITH CONCRETE OR CAST INTO CONCRETE TO HAVE BITUMINOUS ISOLATION COATING. ACCEPTABLE PRODUCT: INTERTUF 16 OR APPROVED EQUAL.
5. ALL NUTS, BOLTS AND WASHERS SHALL BE ALLOY TYPE 6061-T6.
6. ALUMINUM SHALL BE PAINTED AS FOLLOWS:
   - SURFACE PREPARATION TO SP7 (BRUSH-OFF BLAST)
   - SOLVENT WIPE WITH T-10 EPOXY SOLVENT
   - ONE COAT OF DEVRAN 201 UNIVERSAL EPOXY PRIMER AS PER MANUFACTURER'S DIRECTIONS. (4-6 MILS WET).
   - ONE FINISH COAT OF DEVTHANE 379 ALPHATIC URETHANE AS PER MANUFACTURER'S DIRECTIONS. (4-6 MILS WET).

NOTES:

KGS GROUP

| REV | YY / MM / DD | DESCRIPTION | BY |
|---|---|---|---|
| 0 | 25/05/15 | ISSUED FOR TENDER | MH |

A. SECTION LETTER OR DETAIL NUMBER,
B. DRAWING WHERE SECTION OR DETAIL IS DRAWN,

OR

DRAWING WHERE SECTION OR DETAIL IS INDICATED, — SECTION OR DETAIL SHOWN ON SAME DRAWING.

PROFESSIONAL'S SEAL

PROVINCE OF MANITOBA — M. HIEBERT — 2025-05-15 — Member 35374 — REGISTERED PROFESSIONAL ENGINEER

SCATLIFF + MILLER + MURRAY
visionary urban design + landscapes

CONSULTANT FILE NAME: ODEON PARK UDAC

CLIENT: CITY OF WINNIPEG
PLANNING, PROPERTY & DEVELOPMENT
Winnipeg

ODEON PARK DEVELOPMENT

| CITY DRAWING NUMBER | SHEET | OF |
|---|---|---|
| - | 1 | 3 |

STRUCTURAL
GENERAL NOTES

| DESIGN | DRAWN | DATE - Y / M / D | SCALE |
|---|---|---|---|
| MH | MBB | 25/02/26 | N/A |
| CHECKED | APPROVED | PROJECT No. | DRAWING No. |
| | MH | 24-0107-012 | S0.1 |

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
KGS Group
No. 245

BID OPPORTUNITY No. xx-xxxx

CAD File Name: 24-0107-012_s0.1.dwg