



PLAN — FOUNDATION FOR AUTOMATIC BARRIER

ELEVATION — FOUNDATION

METRIC UNITS BETWEEN BRACKETS ARE SOFT CONVERTED AND ARE NOT TO SCALE

ORIGINAL DRAWING : NO. 11164-2012
FOR GENERAL NOTES, REFER TO DRAWING NO, 11164-2011

| REV | DATE | MODIFICATIONS/CHANGES | PAR/BY |
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| MATÉRIAU/MATERIAL | | |
| - | | |
| TRAITEMENT/TREATMENT | | |
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| FINI/FINISH | | |
| - | | |
| NB./App. | POIDS/WEIGHT | SURFACE |
| - | - | - |
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| LES DIMENSIONS SONT EN POUÇES / DIMENSIONS ARE IN INCHES | | EBARBER & ENLEVER LES ARÊTES VIVES. DIM SELON ASME Y14.5 1994. NE PAS MESURER SUR LE DESSIN | |
| TOLERANCES | | BREAK ALL SHARP EDGES AND CORNERS. ALL DIM PER ASME Y14.5 1994. DO NOT SCALE DRAWING | |
| XXX | ± .005 | SAUF SI INDIOQUÉS UNLESS OTHERWISE NOTED | |
| XX | ± .010 | | |
| X | ± .015 | | |
| FRAC. | ± 1/32 | | |
| ANGLES | ± 1/2' | | |

ASIAUTOMATIC SYSTEMS
CORPORATION

FICHER / FILENAME
NAM-BL46-IN-02-EN.DWG

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| TITRE FOUNDATION FOR BL46 AUTOMATIC BARRIER | | | |
| ECHELLE/SCALE | FORMAT/SIZE | DATE | FEUILLE/SHEET DE/OF |
| 1/2" = 1'-0" | B | 2013/02/20 | 1 2 |
| DESSINÉ PAR DRAWN BY | VÉRIFIÉ PAR CHECKED BY | NO. DE DESSIN/DWG. NO. REV | |
| EGD | SSA | NAM-BL46-IN-02-EN A | |

GENERAL NOTES

GENERAL INFORMATION

ON-SITE, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS SHOWN ON THE PLANS. THE CONTRACTOR SHALL ALSO VERIFY ALL MEASUREMENTS OF THE NEW CONSTRUCTION BEFORE STARTING ANY FABRICATION. FOLLOWING THESE VERIFICATIONS, NOTIFY OWNER OF ANY MODIFICATIONS REQUIRED ON PLANS

EXCAVATION AND BACKFILL

BACKFILL MATERIALS SHALL BE MG-112* GRANULAR MATERIAL COMPACTED BY 12" [305mm] LAYERS COMPACTED TO 95% OF THE MODIFIED PROCTOR.

*MG-112 : CLASS A SAND WITH AROUND 109 lb/ft³ [1750 kg/m³] MODIFIED PROCTOR (ASTM D1557 & AASHTO T180), RESISTANT TO FREEZING, CLEANED AND CRIBBED TO BE EXEMPT OF ORGANIC MATTER. GRANULOMETRIC ANALYSIS : 12-100% PASSING THROUGH 0.196in [5,0mm] CRIB (US NO.4), 0-10% PASSING THROUGH 0.003in [0,080mm] CRIB (US NO.200)

ENSURE PROPER DRAINAGE OF SOIL AROUND THE NEW FOUNDATION. WATER SHALL NOT ACCUMULATE AROUND THE FOUNDATION

CAST IN PLACE CONCRETE

CAST IN PLACE CONCRETE SHALL BE DONE ACCORDING TO LOCAL CODES

2. MATERIAL :

- PORTLAND CEMENT : ASTM C150, TYPE 1
- AIR-ENTRAINING AGENT : ASTM C260-00.
- STEEL REINFORCEMENT : BILLET STEEL GRADE 60 COMPLIANT TO ASTM A615M
- WELDED WIRE FABRIC : ASTM A 185

3. CONCRETE CHARACTERISTICS

- COMPRESSIVE STRENGTH AT 28 DAYS : 4350 psi [30MPa]
- MAXIMUM AGGREGATE : $\phi 3/4$ " [$\phi 19$ mm]
- MAX WATER/CEMENT RATIO : 0.50
- SLUMP : 3"±1" [76mm ± 25mm]
- ENTRAINED AIR : 5 TO 8%

| REV | DATE | MODIFICATIONS/CHANGES | PAR/BY |
|-----------|------|-----------------------|--------|
| REVISIONS | | | |

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|---|--------------------------------------|--|------------------|--------------------|--------------------|------------|
| TITRE GENERAL NOTES FOR BL46 AUTOMATIC BARRIER FOUNDATION | | ECHELLE/SCALE N/A | FORMAT/SIZE B | DATE 2013/03/05 | FEUILLE/SHEET 2 | DE/OF 2 |
| DESSINÉ PAR DRAWN BY EGD | VÉRIFIÉ PAR CHECKED BY SSA | NO. DE DESSIN/DWG. NO. NAM-BL46-IN-02-EN | | REV A | | |

CAST IN PLACE CONCRETE (CONTINUED)

4. REINFORCEMENT CONCRETE COVER :

- CONCRETE CAST AGAINST EARTH : 3" [76mm]
- CONCRETE EXPOSED TO WATER, EARTH AND WEATHER : 2" [51mm]

5. UNLESS OTHERWISE SPECIFIED, LAP SLICES OF REINFORCEMENT SHALL BE CLASS B ACCORDING TO ACI 318 AND HOOKS SHALL BE OF STANDARD DIMENSIONS. STIRRUPS SHALL BE BENT 135 DEGREES AT JOINTS (TYPE T1).

6. ON-SITE BENDING OF REINFORCEMENT IS FORBIDDEN

7. CHARACTERISTICS OF NON SHRINK CEMENT GROUT :

- COMPRESSIVE STRENGTH AT 28 DAYS : 7252 psi [50 MPa]
- ACCEPTED PRODUCT : SIKAGROUT 212 OR EQUIVALENT APPROVED BY THE OWNER ENGINEER

8. VIBRATE CONCRETE WHILE PLACING

9. ALL VISIBLE CONCRETE SHARP EDGES SHALL BE CHAMFERED 1" [25mm]

10. HOLES LEFT FROM TIES SHALL BE FILLED WITH GROUT

DESIGN CRITERIA

1. THE SOIL UNDERNEATH THE FOUNDATION SHALL HAVE A BEARING CAPACITY OF AT LEAST 1600 psf [75 kPa]

2. THE SOIL WHERE THE FOUNDATION IS TO BE CONSTRUCTED SHALL BE WELL DRAINED WITH THE WATER TABLE ELEVATION AT A MINIMUM OF 3'-0" [914mm] BELOW UNDERSIDE OF FOUNDATION

3. THE BARRIER SHALL NOT BE RAISED IF THERE IS ANY ICE ACCUMULATION