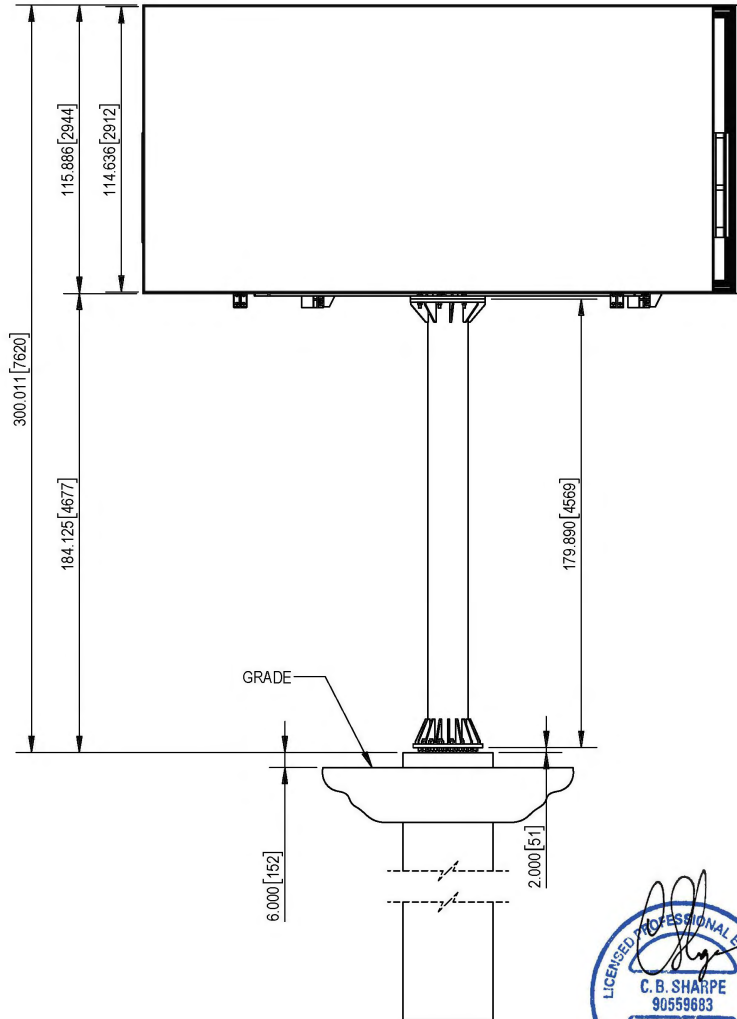


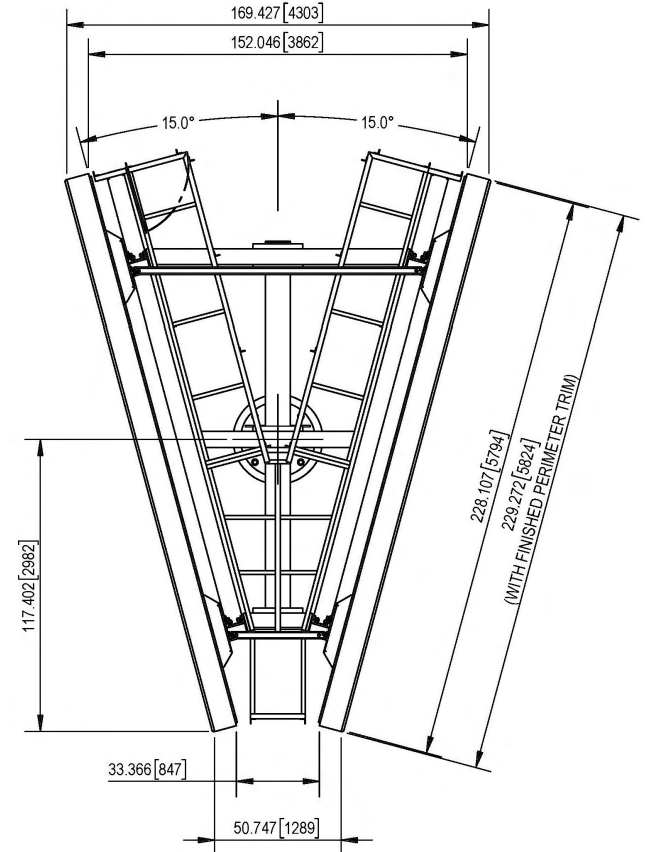
MIS-BB20.9.5x19-30

SHEET # 2 OF 8



GENERAL NOTES:

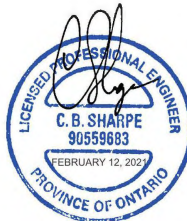
1. WIND DESIGN LOADS: 2012 OBC FOR MISSISSAUGA AREA
 $q(1/50)=0.36\text{ kPa}$; DESIGNED TO NBCC FIGURE I-23
 SNOW DESIGN LOADS: $S_s = 1.6\text{ kPa}$, $S_r = 0.4\text{ kPa}$
 IMPORTANCE FACTOR $I_w=1.0$ (ULS), $I_w=0.75$ (SLS)
 $C_e=0.9$, $C_g=2$, $C_f=1.3$, $C_n=1.0$



Project ID: SMG003

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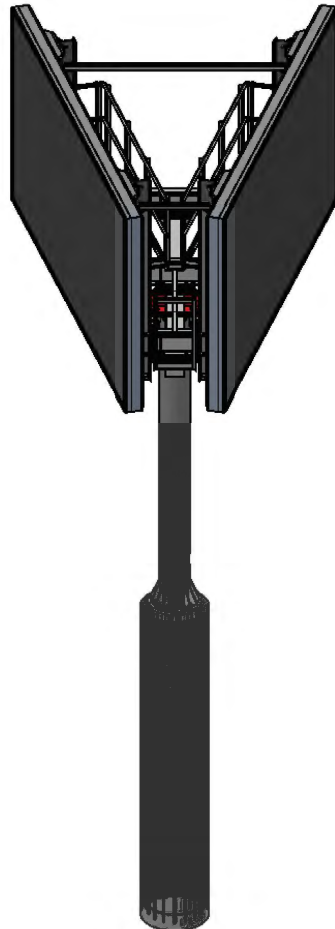
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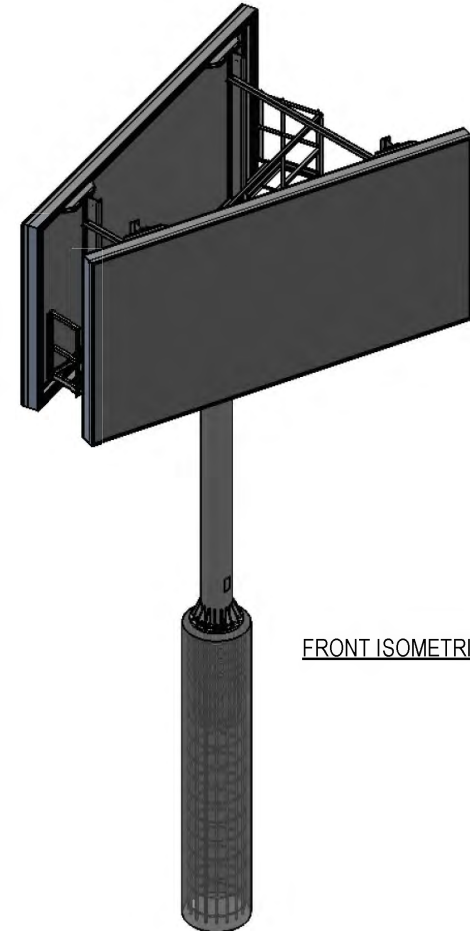
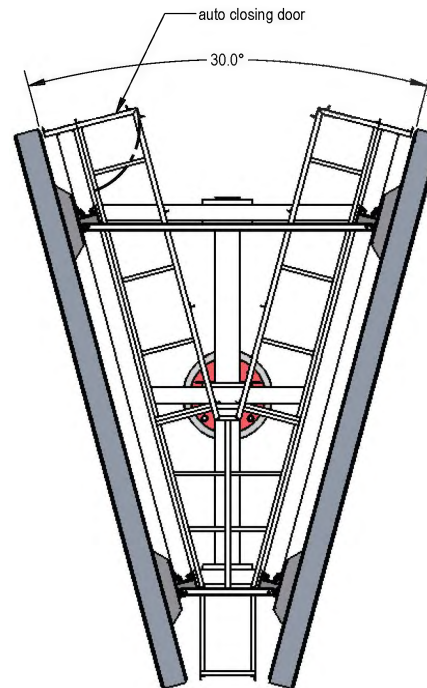
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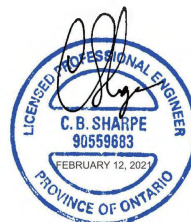
SHEET #: 1 OF 8



FRONT ISOMETRIC



FRONT ISOMETRIC



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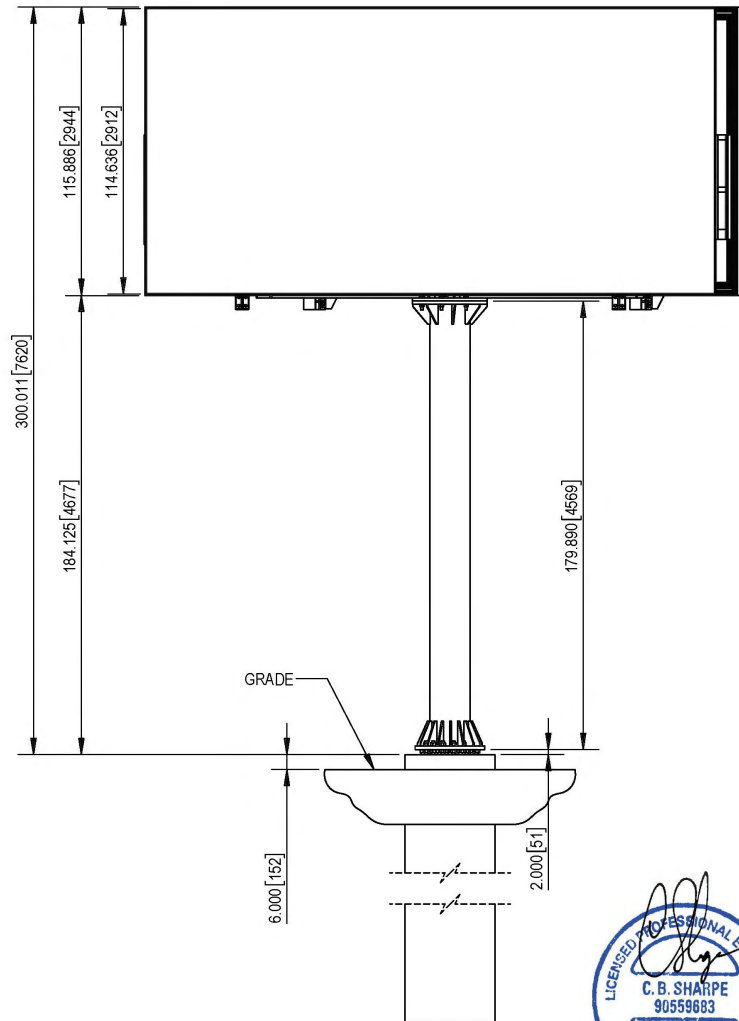
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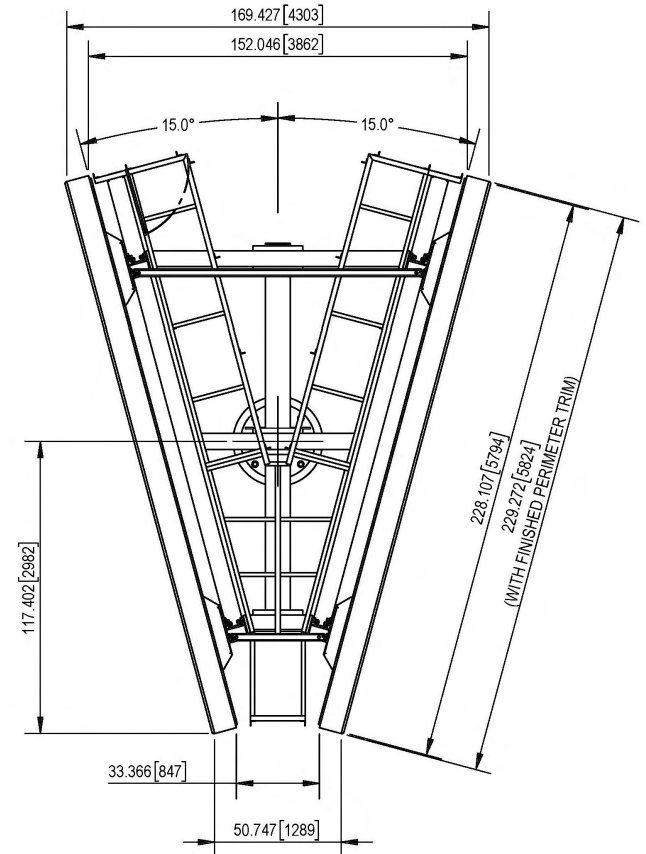
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SHEET # 2 OF 8



GENERAL NOTES:

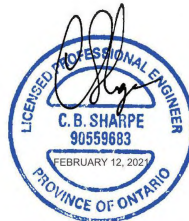
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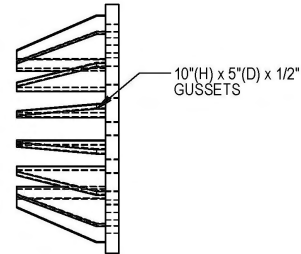
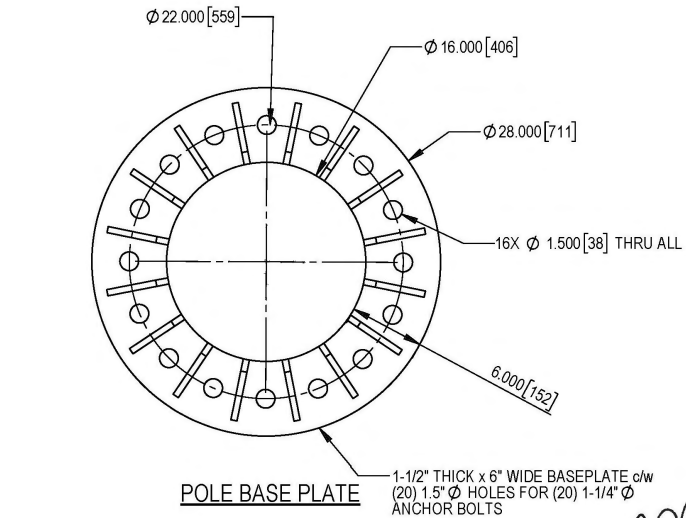
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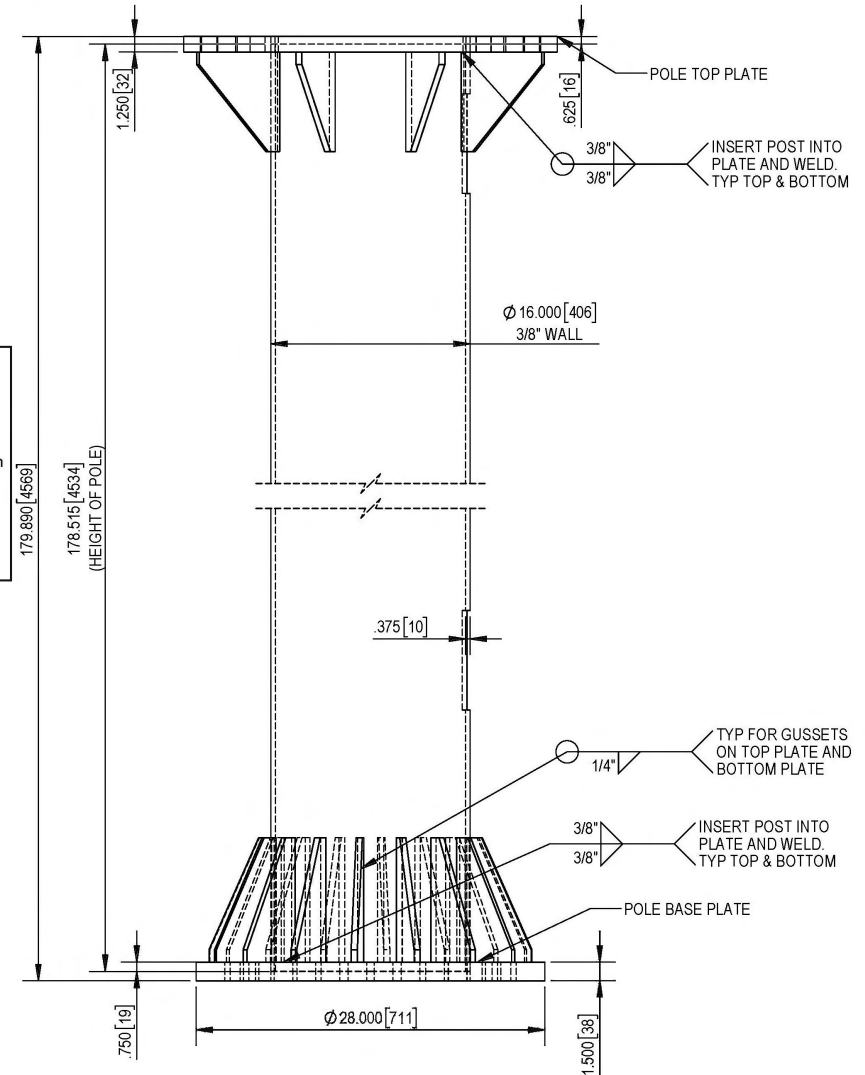
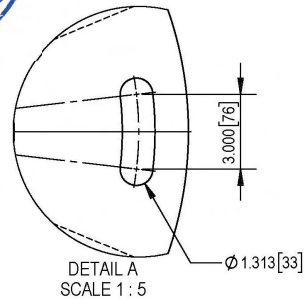
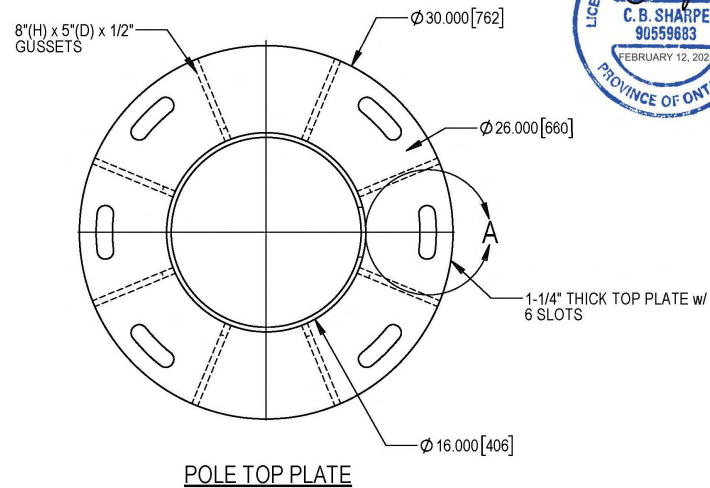
SHEET #: 3 OF 8



Project ID: SMG003

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SHEET #: 4 OF 8

STEEL FABRICATION NOTES:

- STRUCTURAL STEEL HAS BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD S16-14 "DESIGN OF STEEL STRUCTURES."
- STEEL GRADE:
ALL STRUCTURAL STEEL/PLATES TO BE 50W GRADE UNLESS OTHERWISE NOTED
CHANNELS AND ANGLES=G40.21 GRADE 300W
PLATE=GRADE 50W
- ALL BOLTS TO BE IN COMPLIANCE WITH ASTM STANDARD A325M-83, GRADE A325
- ANCHOR BOLTS/RODS ARE GRADE ASTM F1554 Gr36 OR GRADE 44W AND TO BE GALVANIZED MIN. 24"
- ALL STEEL SHALL BE NEW MATERIAL
- ALL STEEL SHALL RECEIVE A PRIMER & PAINT, & TOUCHED UP AS REQUIRED ON SITE
- ALL STEEL TO BE WELDED PER W59-M1989, WELDED STEEL STRUCTURE (METAL ARC WELDING)
- ALL STEEL WELDING TO BE CARRIED OUT TO CSA STANDARD CAN/CSA-W47.1-92 - CERTIFICATION OF COMPANIES FOR FUSION WELDING OF STEEL STRUCTURES
- QUALIFIED WELDERS: COMPLY WITH CSA STANDARD W47.1-1983
- EXPOSED WELDS ARE SMOOTH AND FLUSH TO ADJACENT FINISHES. CONSTRUCT INTERNAL CORNERS WITH SHARP LINES UNLESS INDICATED OTHERWISE. WELDS SHOULD BE CONTINUOUS UNLESS OTHERWISE INDICATED
- DISIMILAR METALS ARE PROTECTION FROM EACH OTHER TO PREVENT GALVANIC CORROSION
- ANCHOR BOLTS AND CATWALKS SHALL BE GALVANIZED
- GALVANIZATION TO BE TO STANDARD CAN/CSA 91649M92

GENERAL FINISH NOTES:

- PAINTED SURFACES TO RECEIVED TWO PART PRIME AND TWO PART TOPCOAT PAINT FINISH

GEOTECHNICAL NOTES:

- PRESUMPTIVE SOIL PROPERTIES USED: KP OF 3.0 AND SOIL BEARING PRESSURE (ULS) OF 1000 KPA, SOIL UNIT WEIGHT OF 21.0 KN/M³
- DRAIN OR PUMP ALL WATER FROM HOLE PRIOR TO CONCRETE PLACEMENT
- CONTACT GEOTECHNICAL ENGINEER TO REVIEW DESIGN ASSUMPTION IF ANY SUDDEN GRADE CHANGES WITHIN 15' PROXIMITY TO THE SIGN BASE(S) LOCATION

CONCRETE NOTES:

- CONCRETE SHALL BE HAVE FOLLOWING MIN PROPERTIES:
f_c=30MPa AT 28 DAYS
w/c RATIO=0.50
AIR=5% TO 8%
AGGREGATE SIZE: 20mm
- USE VIBRATION TO PLACE ALL CONCRETE DURING PLACEMENT
- CONCRETE COVER=75mm ALL SIZES FOR PILE
- COMPLETE ALL WORK AIN ACCORDANCE WITH A23.1.2
- REINFORCING STEEL SHALL CONFORM TO CSA G30.18-09 GRADE 400R FOR GENERAL USE. IF REBAR CAGE IS TO BE WELDED, GRADE 400W MUST BE USED AND WELDED IN ACCORDANCE WITH CSA W186.
- ALL REBAR SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH RSIO STANDARD OF PRACTICE, 4TH EDITION
- VERTICAL REBAR TO BE 20M, IF SPLICED ALONG LENGTH MINIMUM OVERLAP OF 30". STIRRUPS TO BE 10M WITH MINIMUM OVERLAP OF 18"
- CONCRETE TO BE POURED AGAINST UNDISTURBED SOIL. IF BACKFILL IS REQUIRED, IT IS TO BE PLACED IN COMPACTED LAYER TO 95%MODIFIED PROCTOR DENSITY

ASTM F1554 Gr36
ANCHOR BOLTS, x16
1-1/4" Ø x 66" LG c/w NUT AND
WASHER AT BOTTOM END

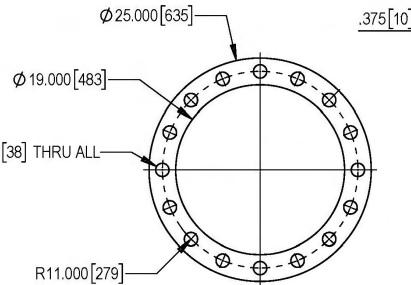
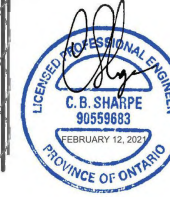
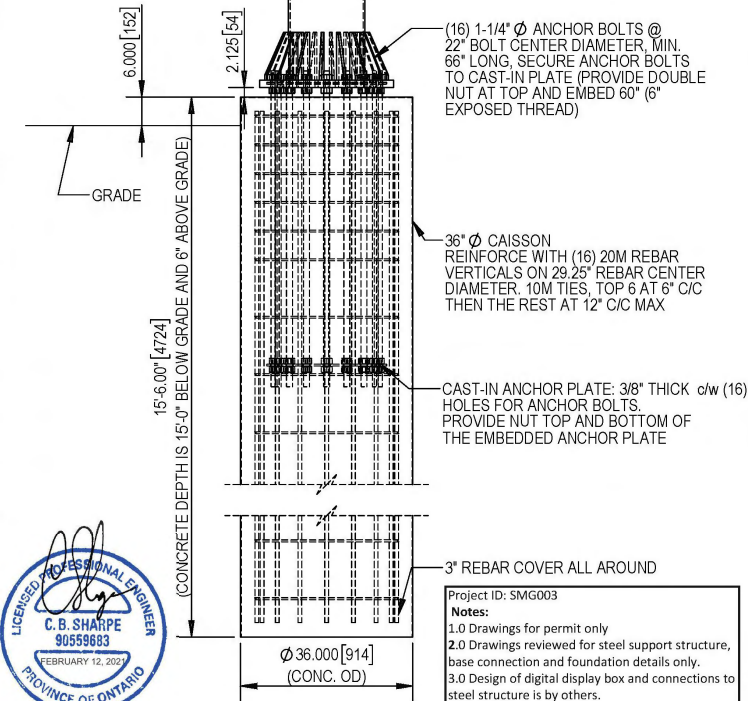
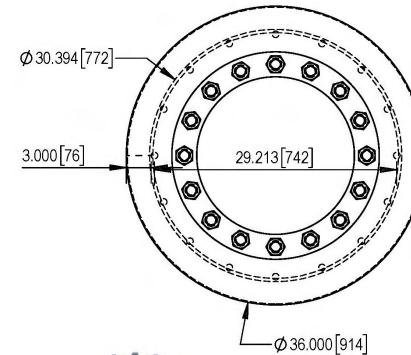
10" THREAD AT TOP c/w
LEVELING NUTS

3/8" THICK STEEL SPACER
PLATE

TOP 24" OF ANCHOR TO
BE GALVANIZED

3/8" THICK STEEL SPACER
PLATE

4" THREAD AT BOTTOM

**SPACER PLATE DETAIL**

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CUT FILE CREATED: N / A

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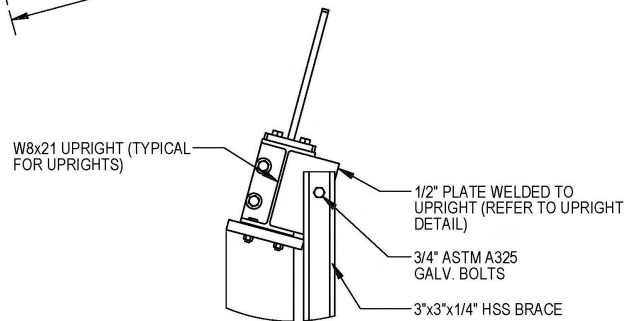
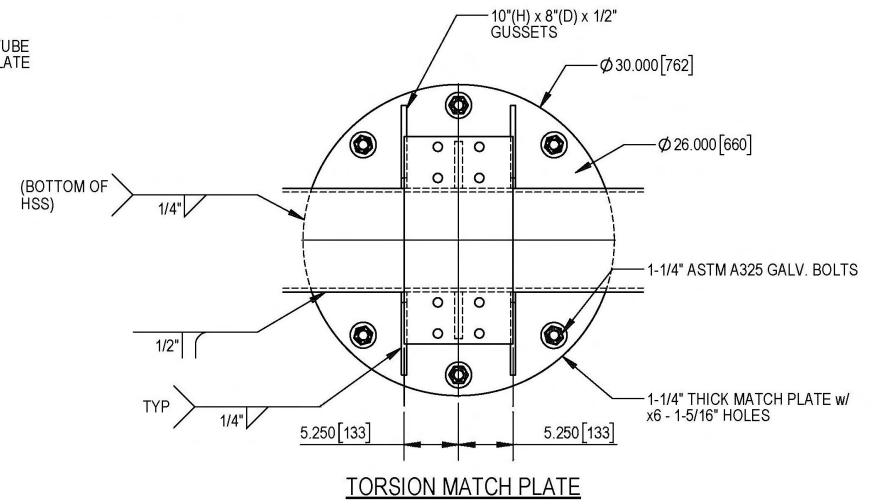
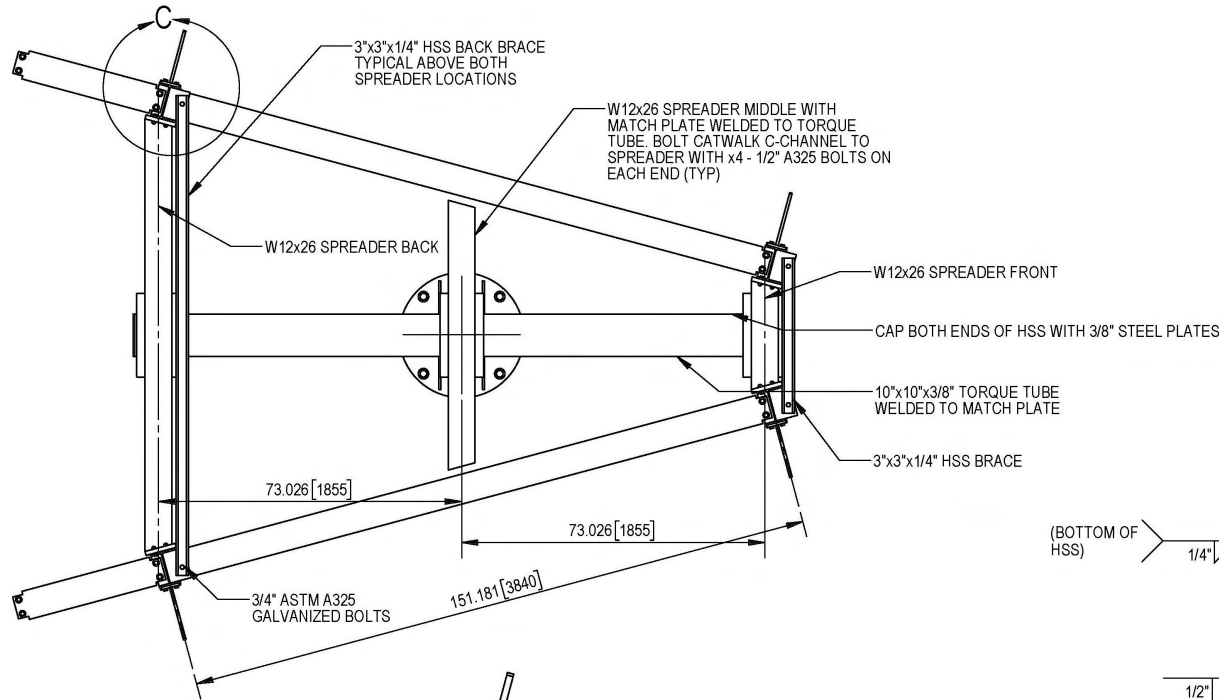
MIS-BB20.9.5x19-30

SHEET # 5 OF 8

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DETAIL C
SCALE 1 : 12

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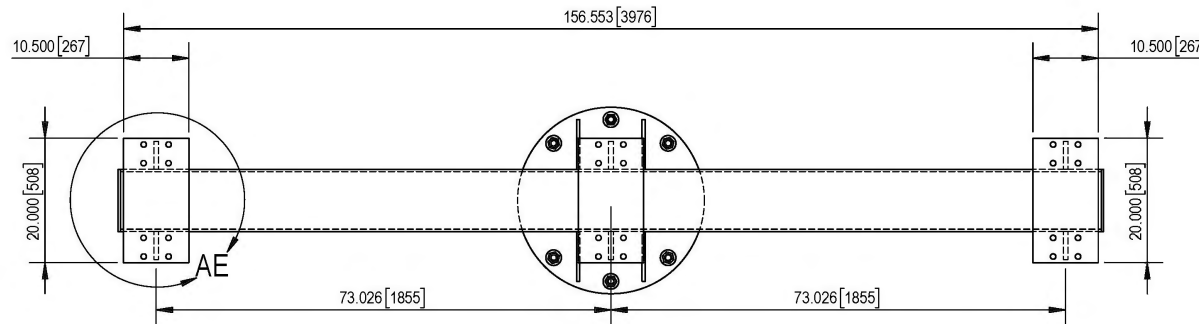
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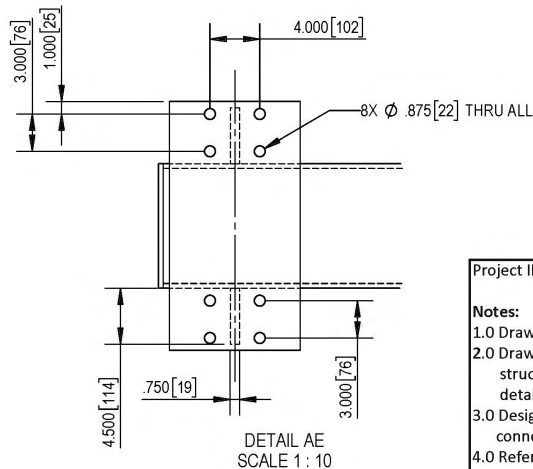
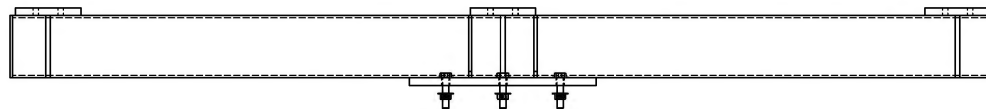
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APPROX WEIGHT: XXX LBS	CUT FILE CREATED:	N / A

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SHEET #: 6 OF 8



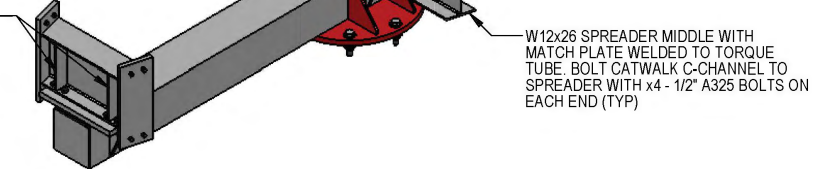
1/2" THICK STIFFENER PLATES
 WELDED ON EACH SIDE BETWEEN
 BOLTS. 1/4" FILLET WELD TYPICAL



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MATCH PLATE WELDED TO TOP
 OF HSS. MIN. 3/8" WELD ALL
 AROUND

MATCH PLATE WELDED TO TOP
 OF HSS. MIN. 3/8" WELD ALL
 AROUND

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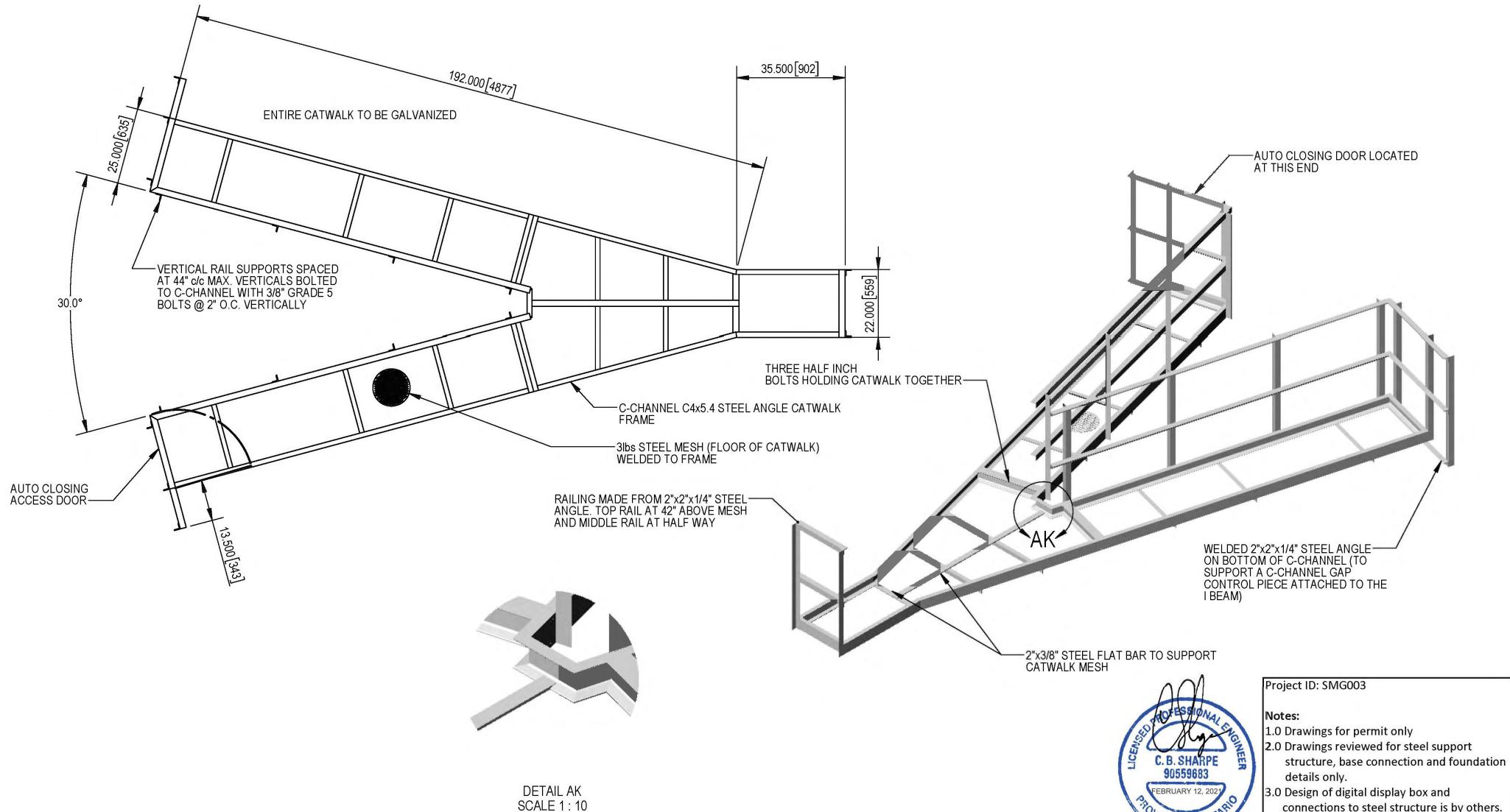
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SHEET #: 7 OF 8



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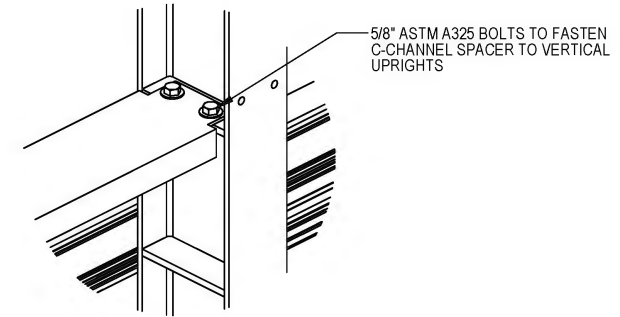
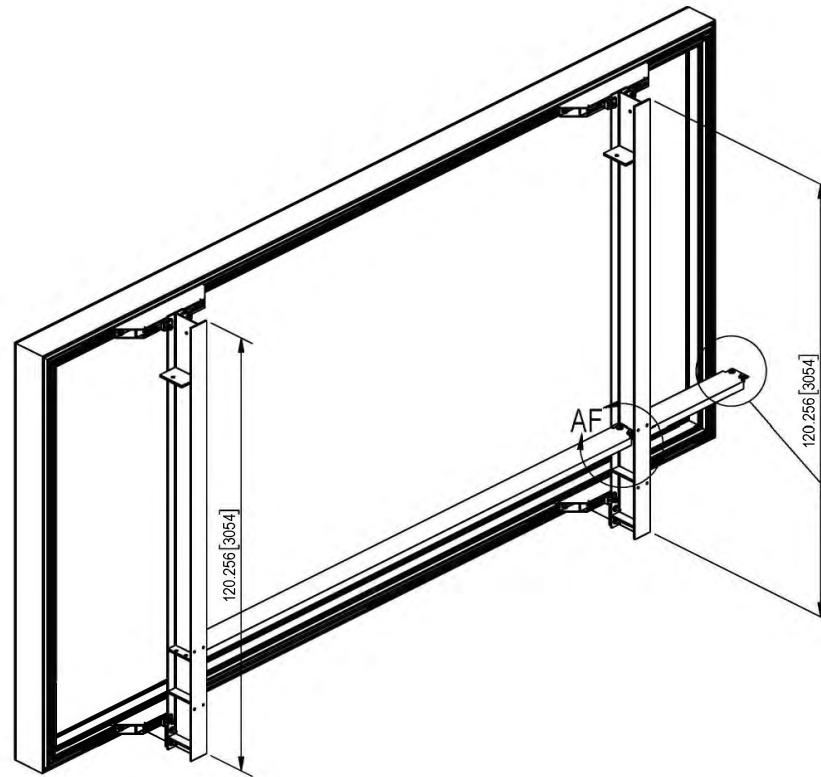
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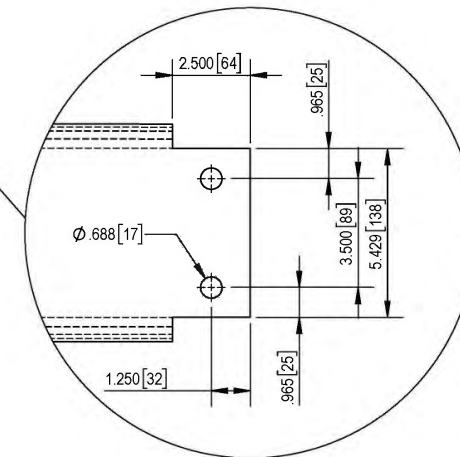
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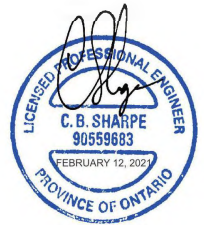
SHEET #: 8 OF 8



DETAIL AF
SCALE 1 : 8



DETAIL AJ
SCALE 1 : 4



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