NOTES:
1. DRAWINGS ARE FOR A GMI DUAL-AXIS STAR TRACKER (PATENT PENDING) TO BE INSTALLED ________.
2. DESIGNED IN ACCORDANCE WITH, AND ALL CONSTRUCTION TO BE IN ACCORDANCE WITH IBC 2015 WITH ALL _______ COUNTY AMENDMENTS
3. LOADS
   3.1 DEAD LOAD = APPROX. 9,000 LB
   3.2 LIVE LOAD = 20 PSF
   3.3 GROUND SNOW, PG = 35 PSF
   3.4 WIND V = 115 MPH, QH = 20 PSF
4. MATERIALS
   4.1 STEEL
      4.1.1 RECT HSS = A1093, A500 GR. C,
      4.1.2 ROUND HSS = A252-19
      4.1.3 PLATE = A36
      4.1.4 BOLTS, NUTS, WASHERS = A325, SS304, SAE GR. 8, DIN 933, A563, F436
      4.1.5 ANCHOR RODS = HDG, ASTM A449, MINIMUM TENSILE 105,000 PSI, GRADE 8.
      4.1.6 ALL STEEL SHALL BE PAINTED.
   4.2 CONCRETE
      4.2.1 CONCRETE, F'c = 3,000 PSI, MIN.
      4.2.2 REBAR, Fy = 60 KSI
5. ALL WELDING TO BE IN ACCORDANCE WITH AWS D1.1
6. PANELS TO BE VERIFIED TO BE STRUCTURALLY ADEQUATE FOR +/- 39 PSF OUT-OF-PLANE PRESSURE
7. INSTALLATION, OPERATION, ELECTRICAL, POLAR CAP, ACTUATOR, SPARS, SLEW DRIVE / STOP, AND OTHER CUSTOM PARTS / COMPONENTS (2X-SBPEMT, 2X-SBPE, ETC.) ARE BY OTHERS
8. TRACKER WAS ANALYZED AT THE FOUR (4) TILT CONFIGURATIONS SHOWN ON THESE DRAWINGS (20 DEG, 40 DEG, 60 DEG 90 DEG)
1. REBAR #4 CAGE 12" SPACING (INSTALL TO ASTM STANDARD)
2. 6-VULCAN ANCHOR RODS Ø1.25" FULL LENGTH
3. CONCRETE BASE 4000 LB WITH 1/2" STONE
4. BASE PLATE t=1"
5. COLUMN BASE 16" X .5" X-HEAVY
6. TILTING BASE SUPPORT ASSEMBLY (NOT INCLUDED REMOVED AFTER INSTALL)
7. HYDRAULIC CYLINDER BORE 8" (NOT INCLUDED REMOVED AFTER INSTALL)
8. STEEL COLUMN X-HEAVY-16" X .5" X 15'
9. SLEW DRIVE & SLEW STOP
10. POLAR CAP
11. STRONGBACK
12. HYDRAULIC ACTUATOR 48" X 4" BORE (MADE IN USA) RATED AT 28,000LBS EXTENDED
13. STEEL CANTILEVER
14. ALUMINUM SPAR
15. TRANSPARENT BI-FACIAL SOLAR PANELS
16. CONTROL PANEL
17. INVERTERS 3 SB 7.0-US
18. GFCI CONVENIENCE POWER RECEPTACLE 120V/20A

PATENT PENDING
(*) FAILSAFE - INCLUDES BATTERY BACKUP WITH WIND SENSOR TO MOVE ARRAY AUTOMATICALLY TO FLAT (STOWED) POSITION WHEN GRID POWER IS UNAVAILABLE

FOR ALBEDO DIFFUSED LIGHT: RECOMMEND 1" WHITE QUARTZ, MARBLE, OR STONES 46' DIAMETER

EXISTING SOIL BACKFILL SHALL BE COMPACTED IN 8" LAYERS

AIR ENTRAINED CONCRETE - 3000PSI WITH 1/2" STONE

CONCRETE 8.5YDS

MARTIN PRECISION TRACKER

GM INDUSTRIES, INC.

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GM INDUSTRIES. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GM INDUSTRIES IS PROHIBITED.
FOR ALBEDO DIFFUSED LIGHT: RECOMMEND 1"
WHITE QUARTZ, MARBLE, OR STONES 46' DIAMETER

EXISTING SOIL BACKFILL SHALL BE COMPACTED IN 8" LAYERS

AIR ENTRAINMENT CONCRETE - 3000PSI WITH 1/2" STONE

CONCRETE 8.5YDS
FOR ALBEDO DIFFUSED LIGHT: RECOMMEND 1" WHITE QUARTZ, MARBLE, OR STONES 46' DIAMETER

EXISTING SOIL BACKFILL SHALL BE COMPACTED IN 8" LAYERS

AIR ENTRAINED CONCRETE - 3000PSI WITH 1/2" STONE

CONCRETE 8.5YDS

1. REBAR #4 CAGE 12" SPACING (INSTALL TO ASTM STANDARD)
2. 6-VULCAN ANCHOR RODS Ø1.25" FULL LENGTH
3. CONCRETE BASE 4000 LB WITH 1/2" STONE
4. BASE PLATE t=1"
5. COLUMN BASE 16" X .5" X-HEAVY
6. TILTING BASE SUPPORT ASSEMBLY (NOT INCLUDED REMOVED AFTER INSTALL)
7. HYDRAULIC CYLINDER BORE 8" (NOT INCLUDED REMOVED AFTER INSTALL)
8. STEEL COLUMN X-HEAVY-16" x .5" x 15'
9. SLEW DRIVE & SLEW STOP
10. POLAR CAP
11. STRONGBACK
12. HYDRAULIC ACTUATOR 48" X 4" BORE (MADE IN USA) RATED AT 28,000LBS EXTENDED
13. STEEL CANTILEVER
14. ALUMINUM SPAR
15. TRANSPARENT BI-FACIAL SOLAR PANELS
16. CONTROL PANEL
17. INVERTERS 3 SB 7.0-US
18. GFCI CONVENIENCE POWER RECEPTACLE 120V/20A

PATENT PENDING
(*) FAILSAFE - INCLUDES BATTERY BACKUP WITH WIND SENSOR TO MOVE ARRAY AUTOMATICALLY TO FLAT (STOWED) POSITION WHEN GRID POWER IS UNAVAILABLE

GM INDUSTRIES, INC.
350 BABCOCK RD.
TOLLAND, CT 06084
(860)-306-4442

TRACKER FOOTING & STRUCTURE PROFILE

SCALE: 1:60
DATE: 10/1/2020
SHEET 4 OF 5

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF GM INDUSTRIES. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF GM INDUSTRIES IS PROHIBITED.
FOR ALBEDO DIFFUSED LIGHT: RECOMMEND 1" WHITE QUARTZ, MARBLE, OR STONES 46' DIAMETER

EXISTING SOIL BACKFILL SHALL BE COMPACTED IN 8" LAYERS

AIR ENTRAINED CONCRETE - 3000PSI WITH 1/2" STONE

CONCRETE 8.5YDS

1. REBAR #4 CAGE 12" SPACING (INSTALL TO ASTM STANDARD)
2. 6-VULCAN ANCHOR RODS Ø1.25" FULL LENGTH
3. CONCRETE BASE 4000 LB WITH 1/2" STONE
4. BASE PLATE t=1"
5. COLUMN BASE 16" X .5" X-HEAVY
6. TILTING BASE SUPPORT ASSEMBLY (NOT INCLUDED REMOVED AFTER INSTALL)
7. HYDRAULIC CYLINDER BORE 8" (NOT INCLUDED REMOVED AFTER INSTALL)
8. STEEL COLUMN X-HEAVY-16" x .5" x 15'
9. SLEW DRIVE & SLEW STOP
10. POLAR CAP
11. STRONGBACK
12. HYDRAULIC ACTUATOR 48" X 4" BORE (MADE IN USA) RATED AT 28,000LBS EXTENDED
13. STEEL CANTILEVER
14. ALUMINUM SPAR
15. TRANSPARENT BI-FACIAL SOLAR PANELS
16. CONTROL PANEL
17. INVERTERS 3 SB 7.0-US
18. GFCI CONVENIENCE POWER RECEPTACLE 120V/20A

PATENT PENDING
(*) FAILSAFE - INCLUDES BATTERY BACKUP WITH WIND SENSOR TO MOVE ARRAY AUTOMATICALLY TO FLAT (STOWED) POSITION WHEN GRID POWER IS UNAVAILABLE

GM INDUSTRIES, INC.
350 BABCOCK RD.
TOLLAND, CT 06084
(860)-306-4442

48 X 400W LG TRANSPARENT BI-FACIAL
8 X 6 PANELS DC-19.20KW LANDSCAPE
GMI DUAL-AXIS STAR TRACKER WITH FAILSAFE(*)
NORMAL POSITION
MADE IN CONNECTICUT, USA