



CCS Constructors LLC

Supply & Erect Structural Steel and Precast
Crane Service Rigging Pile Driving Heavy Hauling

Lighting Plan for Craftsbury BO 1449 (34)

January 29th, 2016

Prepared by: Brian Richardson
CCS Constructors, Inc.
138 Munson Ave
Morrisville, VT 05661

Please accept the attached for our night time lighting plan for the Craftsbury BO 1449 (34) project.

1. Prior to any night time work we will mobilize and set-up two portable light towers. The towers will be utilized on site and placed as needed to complete all aspects of the work.
2. Each light tower is able to cover 5-7 acres, Please see the attached cut sheet of the units that will be used or similar too.

RAILROAD SPIKE
IN TREE
ELEV. = 1019.75'

LIGHT TOWERS

CHORD STA 12+50.00 BK=
CHORD STA 12+50.03 AHD=
CHANNEL STA 51+00.00
 $\Delta = 70^\circ 0' 0''$ RT

END BRIDGE
STA 12+91.57

STA 12+64.8
REMOVE

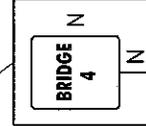


BRG. ABUT. NO. 1
STA 12+05.00
FG = 1023.97 FT

BRG. ABUT. NO. 2
STA 12+90.00
FG = 1029.01 FT

BEGIN BRIDGE
STA 12+03.38

PROPOSED CURVE
DELTA = $18^\circ 31' 22''$
D = $5^\circ 43' 46''$
R = 1000.00'
T = 163.07'
L = 323.29'



STA 11+96.00 RT

CRANE PADS

TIE
DIST = 44.65

69" E

11+00

12+00

13+00

14+00

15+00

16+00

17+00

18+00

19+00

20+00

21+00

22+00

23+00

24+00

25+00

26+00

27+00

28+00

29+00

30+00

END STA

POC STA

POB STA

$\Delta = 75^\circ$

SMALL

DRIVE

TA 12+88.95 BK

TA 12+86.10 ADH

51.33" E

16'-0" (TYR)

7°31'36" W

7°31'36" W

CRAVEL

WILLOTT

RED CAP

YELLOW TIE

DIST 746.41

69" E

11+00

12+00

13+00

14+00

15+00

16+00

17+00

18+00

19+00

20+00

21+00

22+00

23+00

24+00

25+00

26+00

27+00

28+00

29+00

END STA

POC STA

POB STA

$\Delta = 75^\circ$

SMALL

DRIVE

TA 12+88.95 BK

TA 12+86.10 ADH

51.33" E

16'-0" (TYR)

7°31'36" W

7°31'36" W

CRAVEL

WILLOTT

RED CAP

YELLOW TIE

DIST 746.41

69" E

11+00

12+00

13+00

14+00

15+00

16+00

17+00

18+00

19+00

20+00

21+00

22+00

23+00

24+00

25+00

26+00

27+00

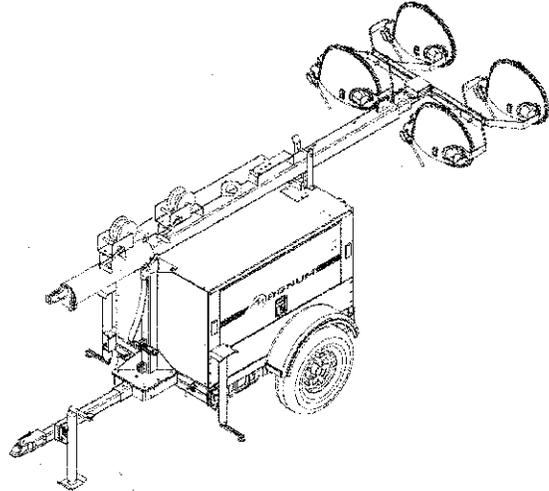
28+00

END STA

Magnum Light Tower – MLT3060 Specifications

ENGINE

- Mitsubishi® L3E-W461ML - liquid cooled, diesel engine
 - Standby - 12.2 hp @ 1800 rpm
 - Prime - 10.5 hp @ 1800 rpm
 - 3 cylinder
 - 0.95 L displacement
- Fuel consumption (prime) – 0.47 gph (1.78 Lph)
- 60 Hz engine/generator
- Industrial engine exhaust system
- Rubber vibration dampers isolate engine/generator from frame
- Cooling system capable of operating at 120°F ambient
- Full flow oil filter, spin on type
- Fuel filter with replaceable element
- Dry type cartridge air filter
- Polyethylene fuel tank with large diameter opening
 - 30 gal. capacity
 - 64 hr. run capacity
 - 3 ½" fill port



ENGINE CONTROLS

- Engraved, aluminum punched and anodized control panel
- Four position keyed switch – glow plugs (preheat, off, run, start)
- Hour meter
- Automatic low oil/high temperature shutdown system

GENERATOR

- Marathon Electric®
 - Brushless
- 6 kW standby output
- 120/240 VAC – 50/25A
- +/-6% capacitor voltage regulation

ELECTRICAL SYSTEM AND CONTROLS

- Individual floodlight circuits with 15A breakers
- Ballast indicator lights
- 30A start limit breaker (assures no load condition exists before starting)
- Standard individually breakered convenience outlets:
 - (1) 120 VAC 20 Amp GFCI duplex outlets (Nema 5-20R type)
 - (1) 240 VAC 30 Amp twistlock outlets (Nema L6-30R type)
- 440 CCA wet cell battery



FLOODLIGHTS

- Four light fixtures – 1000 watts each - metal halide
- Oval aluminum reflector
- Tempered glass lens
- Silicone gaskets for moisture and dust protection
- Individual floodlight On/Off switches

WIRING

- All wiring is sized to the amperage draw required
- AC & DC wiring diagrams are provided

MAST

- 30' maximum extension, 3-section, tubular steel
- Self-lubricating, graphite guides on all sides of mast tubes
- Industrial black powder coat finish
- Automatic locking system in horizontal position for travel
- 1500 lb. automatic self-braking winches
- 360° rotation with locking system
- Coiled mast cord
- Dual winch system located at ergonomic height allowing single person operation
- Equipped with single lifting eye and fork pockets

ENCLOSURE

- Aluminum, sound attenuated enclosure
 - UV & fade resistant, high temperature cured, white polyester powder paint
 - 68 dB(A) at 23 feet – prime power
- Steel body - 14-gauge
- Stainless steel hinges on doors
- Multi-lingual operating/safety decals
- License plate holder with light
- Manual holder with operating/parts manuals

TRAILER

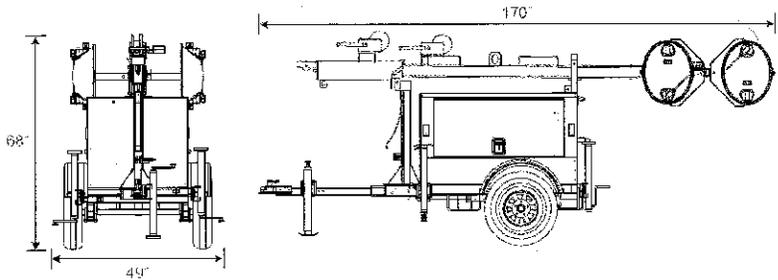
- Mast support - 3" square tube, 1/4" wall
- Removable tongue - 48" long
- Tubular steel frame - 3/16" wall
- Four, 2000 lb. adjustable leveling jacks – 4 point stance
- All jacks transport and lock in horizontal position for storage
- Side outriggers - 8' 1/4" span
- Safety chains with spring loaded safety hooks
- 2" ball hitch
- Single wall polyethylene fenders
- DOT approved tail, side, brake, and directional lights
 - Recessed rear lights
- 2200 lb. leaf spring axle



- ST175/80D13 – 6 ply
- 40.75 in. axle span

WEIGHTS & DIMENSIONS

- Dry weight: 1640 lbs (744 kg)
- Operating weight: 1853 lbs (841 kg)
- Mast stowed: 170 x 49 x 68 in (4.32 x 1.25 x 1.73 m)



WARRANTY

- Engine and generator covered under OEM warranty – consult factory for details.

CERTIFICATIONS

- CSA certified

MLT3060 Options

COOLANT OPTIONS

- ◆ 60/40 Coolant, 60% Ethylene glycol

ENGINE OPTIONS

- ◆ Heated fuel filter
- ◆ Oil drain valve kit
- ◆ Lower radiator hose – engine heater
- ◆ Cold weather belt

ELECTRICAL CONTROLS OPTIONS

- ◆ 720 CCA wet cell battery
- ◆ 720 CCA gel cell battery
- ◆ 685 CCA gel cell battery
- ◆ Battery disconnect
- ◆ Battery charger – 2A trickle
- ◆ Autolight controller

CABINET OPTIONS

- ◆ Interior cabinet light
- ◆ Level indicator



HITCH OPTIONS

- ◆ 2.5" lunette ring
- ◆ 3" lunette ring
- ◆ 3" HD lunette ring
- ◆ 2 5/16" ball
- ◆ Combination hitch – 2.5" lunette ring / 2" ball

TRAILER OPTIONS

- ◆ Tube and sleeve jack
- ◆ 6 pin or 7 spade connectors
- ◆ Spare tire and carrier
- ◆ Parking brake
- ◆ Electric brakes
- ◆ Surge brakes

LIGHT OPTIONS

- ◆ High pressure sodium, quick disconnect lights

MAST CORD OPTIONS

- ◆ Drape cord

MAST, WINCH, & FINISH OPTIONS

- ◆ Galvanized, manual, dual winch
- ◆ Galvanized, electric, dual winch
- ◆ Galvanized, electric, dual winch, quick disconnect
- ◆ Black, electric, dual winch
- ◆ Black, electric, dual winch, quick disconnect

