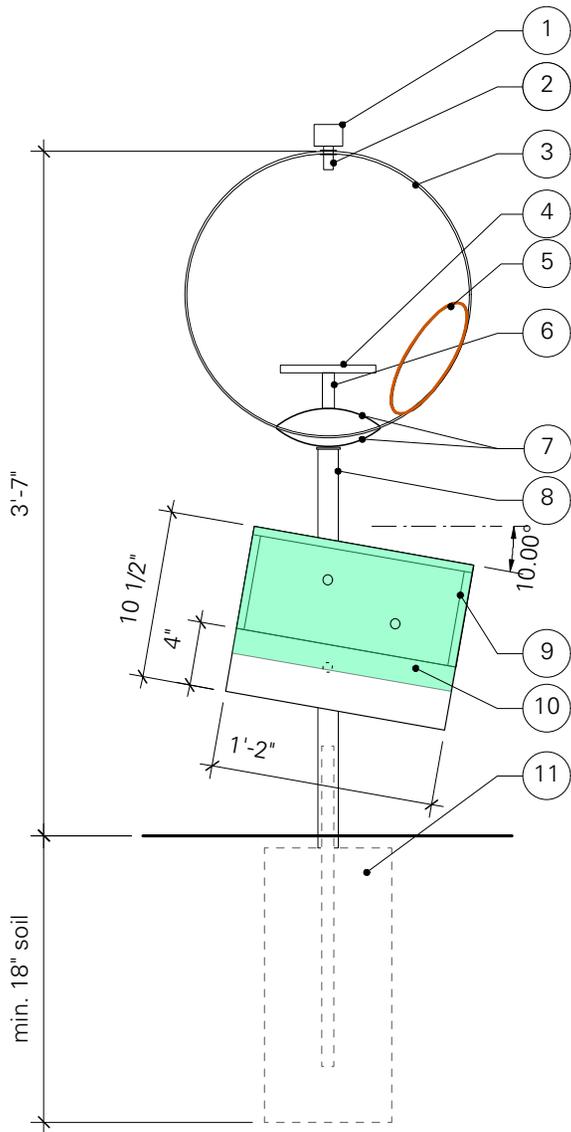


Clockwise from lower left:
LFL installed at New York
University (image 1 and 2),
Night concept rendering.

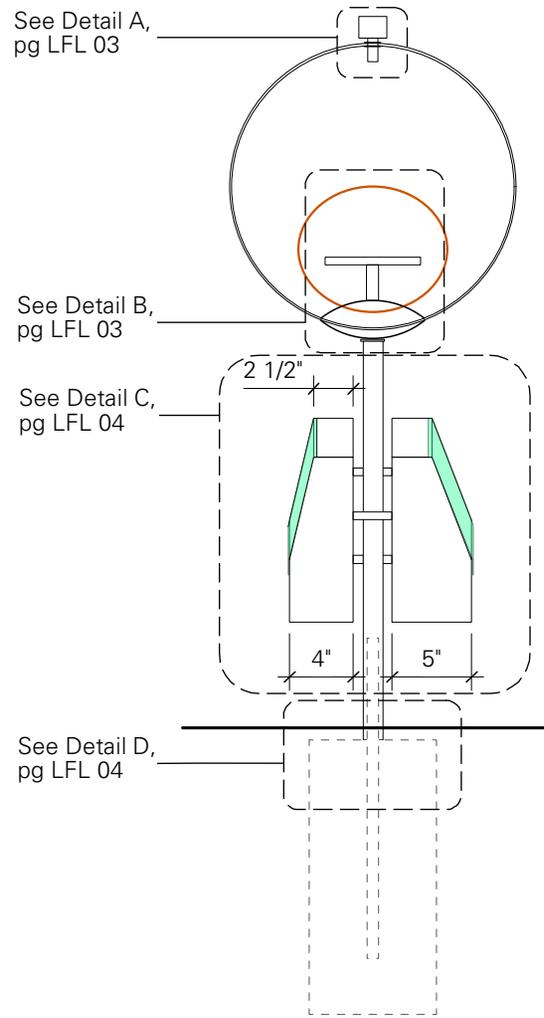
This Little Free Library is designed to be installed in a park or plant bed, where there is a minimum soil depth of 18", ideally adjacent bench where people could sit and read. Alternatively, if the chosen site has no soil, the library concrete footing could be poured to a wider diameter for stand-alone stability.

Part futuristic flora, part refined industrial display case, whimsically suggesting blown bubbles; at night floating lamps. These 'plants' could be clustered close together or spread across a wider area, to be encountered singularly by park denizens.

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1 ELEVATION: SIDE VIEW
1" = 1'-0"



2 ELEVATION: FRONT VIEW
1" = 1'-0"

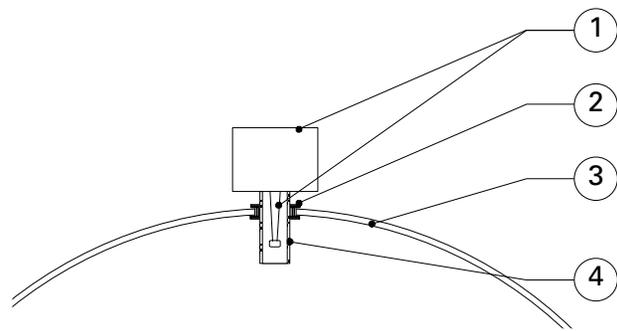
KEY:

- 1. LED solar light assembly**
- Home goods supply store, such as Target.
- 2. 3/4" anodized aluminum extrude round tube**
- Available at metal supply stores.
- Decimal size : 0.7500 x 0.065.
- 3. 18" clear acrylic globe, with enlarged opening.**
- Ordered from 1000bulbs.com #American 3202-18000-010.
- 4. 1/2" thick poplar board book display stand**
- Lumber supply store.
- 5. Rubber edge trim**
- McMaster-Carr.com #4869A2.
- 6. 3/4" rigid galvanized electrical conduit**
- Available from most building material suppliers.
- 7. 6 1/2" steel or aluminum globe caps**
- Mylampparts.com SKU SL11677.
- 8. 1 1/4" rigid galvanized electrical conduit**
- Available from most building material suppliers.
- 9. Enclosed book boxes**
- 10. Clear vinyl sheet**
- Online or plastic supply stores.
- 11. 18" deep concrete cylindrical footing****

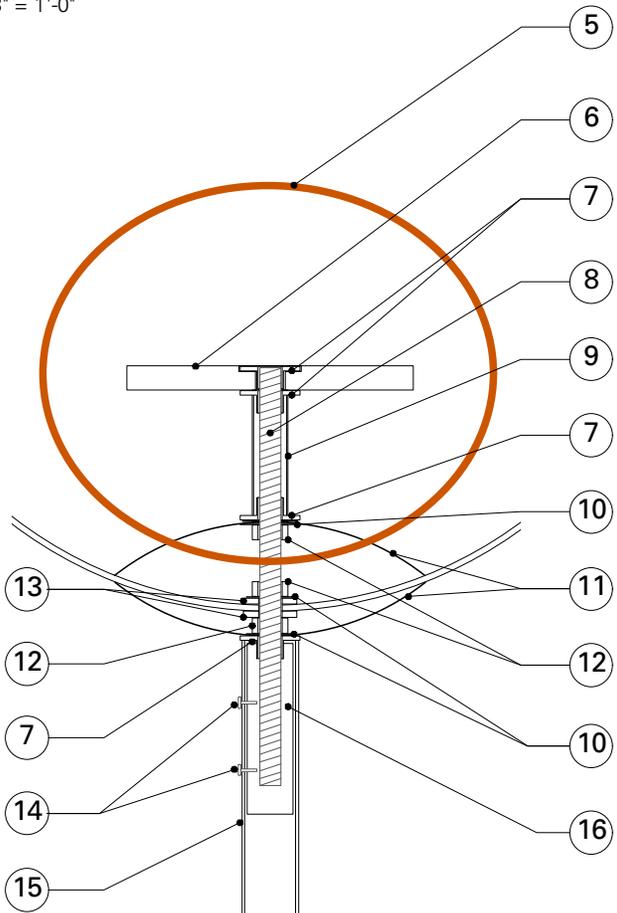
Notes

For simplicity the supporting conduit (8) is shown straight, however it could be bent to angle forward, as shown in the installation at NYU. If conduit is bent, then book boxes are mounted perpendicular to conduit, as opposed to angled 10°

**As an alternative to the concrete footing, you can use a wood stake to anchor the library. Depending on soil density, anywhere from 2-4' deep.



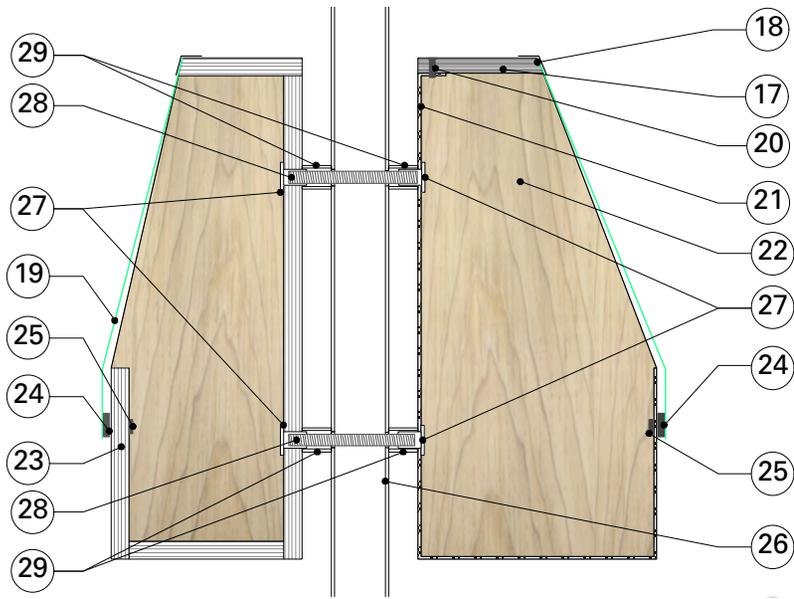
A LED SOLAR LIGHT
3" = 1'-0"



B DISPLAY STAND/GLOBEL CONNECTION
3" = 1'-0"

KEY:

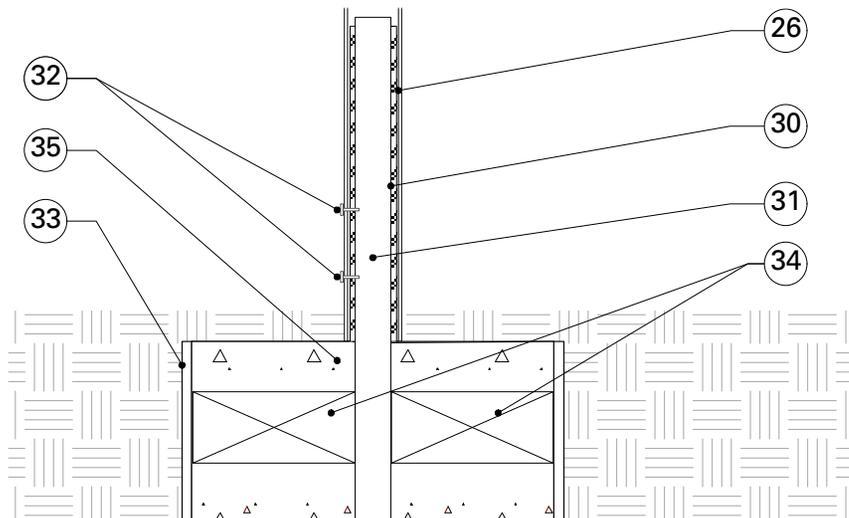
- 1. Modified LED solar path light**
 - Disassemble fixture down to minimal solar panel housing and LED
 - Extend length of LED wiring with soldering iron and new wire
 - Available online or electricians stores.
 - Use super glue or epoxy to attach LED housing to tube (4)
- 2. Push-in rubber grommet, McMaster-Carr.com #9600K36**
- 3. Acrylic clear globe with 7/8" hole, cut out using Dremel milling bit or similar tool**
- 4. 3/4" diameter anodized aluminum extruded round tube, available at hardware stores or online: onlinemetals.com**
 - Cut to 1 1/4" length
- 5. Rubber edge trim, McMaster-Carr.com # 4869A2**
 - Place around enlarged acrylic globe opening
- 6. 1/2" thick wood book display stand**
 - Cut to approximately 5.5" x 8" or what can fit in globe
- 7. Tee-nut insert without prongs for wood, McMaster-Carr.com #90598A033**
 - Counter sunk into wood book display (6)
 - Grind down fins of two tee-nuts to allow snug fit in conduit (9)
- 8. 1/2"-13 x 12" long steel threaded rod, McMaster-Carr.com # 90034A440**
- 9. 3/4" dia. galvanized conduit, available at building supply stores**
 - Cut down to approximately 4" length
 - Permanently attach only bottom tee-nut (7) with two part epoxy or tack weld
- 10. General use washer for 1/2" bolt, McMaster-Carr.com #98970A133**
 - Always use with half height nut (12)
- 11. 6 1/2" globe cap, available at Mylampparts.com SKU SL11677**
 - Use general washer (10) and half height nut (12) on underside as stopper to prevent cap from deforming when tightening assembly
- 12. Half height 1/2"-13 nut. McMaster-Carr.com #94846A523**
- 13. 2" diameter clear acrylic disk, 1/8" thick, available at plastic supply stores, with 1/2" hole in center**
 - Attach to globe (3) with acrylic specific glue with a bolt and not to hold in place while glue sets
- 14. 1/4" drilling sheet metal screws, available at hardware store**
 - For extra strength in assembly, use two screws through conduit (15) into wood dowel (16) to hold assembly secure
- 15. 1 1/4" diameter rigid electrical conduit, found at building suppliers.**
- 16. 6" Wood or plastic dowel, McMaster-Carr.com or online model supply sites.**
 - Countersink tee-nut (7) into top
 - Insert threaded rod (8) into dowel with two part epoxy
 - Insert into top of rigid conduit (15) so tee-nut (7) is flush with end



KEY:

- 17. 1/2" acrylic top, plastic supply stores or online
- Bevel front edge to match cut away angle
- 18. 1" J-Lar clear to the core tape, Amazon.com
- Attached to top (17) and vinyl flap (18)
- 19. Colored vinyl flap 14" x 9.5", from plastic supply stores, or online
- Attach to box with J-Lar tape (18)
- 20. Rivet, sized for appropriate material thickness, McMaster-Carr.com
- Use counter-suck for clean finish
- Use for attaching clear acrylic top (16) to sheet metal (21)
- 21. Box Option 1: 1/32" aluminum sheet metal, metal suppliers or onlinemetals.com
- Cut to 20" x 14", bend at 1", 10", and 15" points for form J shape
- 22. 1/2" thick Wood side panel, from lumber supply store.
- Cut to fit bent sheet metal (21) or plywood boxes (23)
- Use trim router with flush cut guide if necessary for cleaning edges
- 23. Box Option 2: 1/4" or 1/2" plywood, lumber or building supply stores.
- Cut, glue and fasten to form box
- 24. 1/2" adhesive flexible strip magnet, McMaster-Carr.com #5759K23
- Attach to bottom edge of vinyl flap (19)
- 25. 1/4" mighties magnets, Amazon.com
- Super glue three magnets to inside of boxes (21, 23), equally spaced and in alignment with strip magnet (24)
- 26. 1 1/4" diameter rigid electrical conduit, found at building suppliers.
- 27. Cap nuts, McMaster-Carr #90835A310
- Drill holes in back of boxes (21, 23) and slip nuts through toward conduit (26)
- 28. 1/4"-20 threaded rod, McMaster-Carr.com #98790A029
- Cut to size needed to thread through conduit (26) and on to cap nuts (27)
- 29. Aluminum pipe stand-offs, made from B210 6061-T6, decimal size 0.500" od. x .058 wall thickness. Metal supply store or onlinemetals.com.
- Cut to length to cover exposed cap nut (27)
- File stand-off so it sits flush to conduit (26)
- 30. 1 1/8" Aluminum pipe, Onlinemetals.com or metal suppliers.
- Cut to length cover exposed conduit (31)
- 31. 3/4" diameter rigid electrical conduit, building supply stores.
- Cut to 22" length
- 32. Drilling sheet metal screws, McMaster-Carr.com #94090A100
- Fasten two through conduit (26), aluminum pipe (30) and conduit (31) to attach main structure to footing
- 33. 6" diameter cardboard mailing tube, mailing supply stores or Amazon.com
- Cut to 18" length and tape bottom closed to prevent concrete from pouring out during casting process
- 34. Wood blocking. Scrap lumber or plywood pieces.
- Use to hold conduit (31) vertical and centered during concrete (35) casting
- 35. Fast-setting concrete, building supply stores

C BOOK BOX CONNECTION**
3" = 1'-0"



D STRUCTURE TO FOOTING
3" = 1'-0"

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