



Application for URBAN DESIGN COMMITTEE Review

Department of Planning and Development Review
Planning & Preservation Division
900 E. Broad Street, Room 510
Richmond, Virginia 23219
(804) 646-6335

<http://www.richmondgov.com/CommitteeUrbanDesign>

Application Type

- Addition/Alteration to Existing Structure
 New Construction
 Streetscape
 Site Amenity

- Encroachment
 Master Plan
 Sign
 Other

Review Type

- Conceptual
 Final

Project Name: _____

Project Address: _____

Brief Project Description (this is not a replacement for the required detailed narrative) : _____

Applicant Information

(on all applications other than encroachments, a City agency representative must be the applicant)

Name: _____ Email: _____

City Agency: _____ Phone: _____

Address: _____

Main Contact (if different from Applicant): _____

Company: _____ Phone: _____

Email: _____

Submittal Deadlines

All applications and support materials must be filed no later than 21 days prior to the scheduled meeting of the Urban Design Committee (UDC). Please see the schedule on page 3 as actual deadlines are adjusted due to City holidays. **Late or incomplete submissions will be deferred to the next meeting.**

Filing

Applications can be mailed or delivered to the attention of "Urban Design Committee" at the address listed at the top of this page. **It is important that the applicant discuss the proposal with appropriate City agencies, Zoning Administration staff, and area civic associations and residents prior to filing the application with the UDC.**

UDC Background

The UDC is a ten member committee created by City Council in 1968 whose purpose is to advise the City Planning Commission on the design of projects on City property or right-of-way. The UDC provides advice of an aesthetic nature in connection with the performance of the duties of the Commission under Sections 17.05, 17.06 and 17.07 of the City Charter. The UDC also advises the Department of Public Works in regards to private encroachments in the public right-of-way.



PROJECT NARRATIVE

Urban Design Committee
Salt Dome Relocation Project
16 January 2015

The City of Richmond's Department of Public Works is proposing to build a new Salt Dome at the Pine Camp Parcel owned by the City's Department of Park and Recreation, which is located at 500 Forest Lawn Drive, Richmond, Virginia 23227. The new structure will be a replacement for the existing Salt Dome presently located at the Parker Field property on North Boulevard. Parker Field is in the process of undergoing a major makeover through demolition and relocation of existing structures, parking lots and utilities in order to make way for the future development of that property. Hence, the need to have a new Salt Dome operational for the 2015-2016 Winter is necessary to continue to provide protection for the road systems during inclement weather.

The Pine Camp Parcel covers approximately 104 acres and already houses several City owned structures including Pine Camp Cultural Arts and Community Center, Richmond Police Canine Training Facility, City of Richmond Parks, Recreation and Community Facilities Infrastructure Maintenance Operations Center, and the Urban Forestry Building. It is surrounded by dense forest along the north property line, where the Salt Dome site is located.

The new Salt Dome will be similar to the prototype structure which presently exists at the Parker Field location. The circular foundation consists of reinforced concrete with a height of 6' above grade and the domed roof system is made of treated timber panels covered with an asphalt shingle roof. Pure salt is stored inside the dome. A sand stockpile is located outside and adjacent to the Salt Dome. Room has been provided on the site plan to mix the sand and the salt, which makes up the second stockpile of sand and salt outside and adjacent to the Salt Dome. Each of the three materials is used depending on the weather conditions at the time of treatment. Ample room is provided on site for the tandem trucks that deliver and spread the sand and salt on the roads to circulate through the chain link fence enclosed compound, receive material and exit the site. The layout also enables a tractor trailer to navigate the site and deliver salt to the interior of the Salt Dome. Landscaping for screening along Forest Lawn Drive and a BMP for water quantity and water quality requirements are also part of the improvements associated with the project.

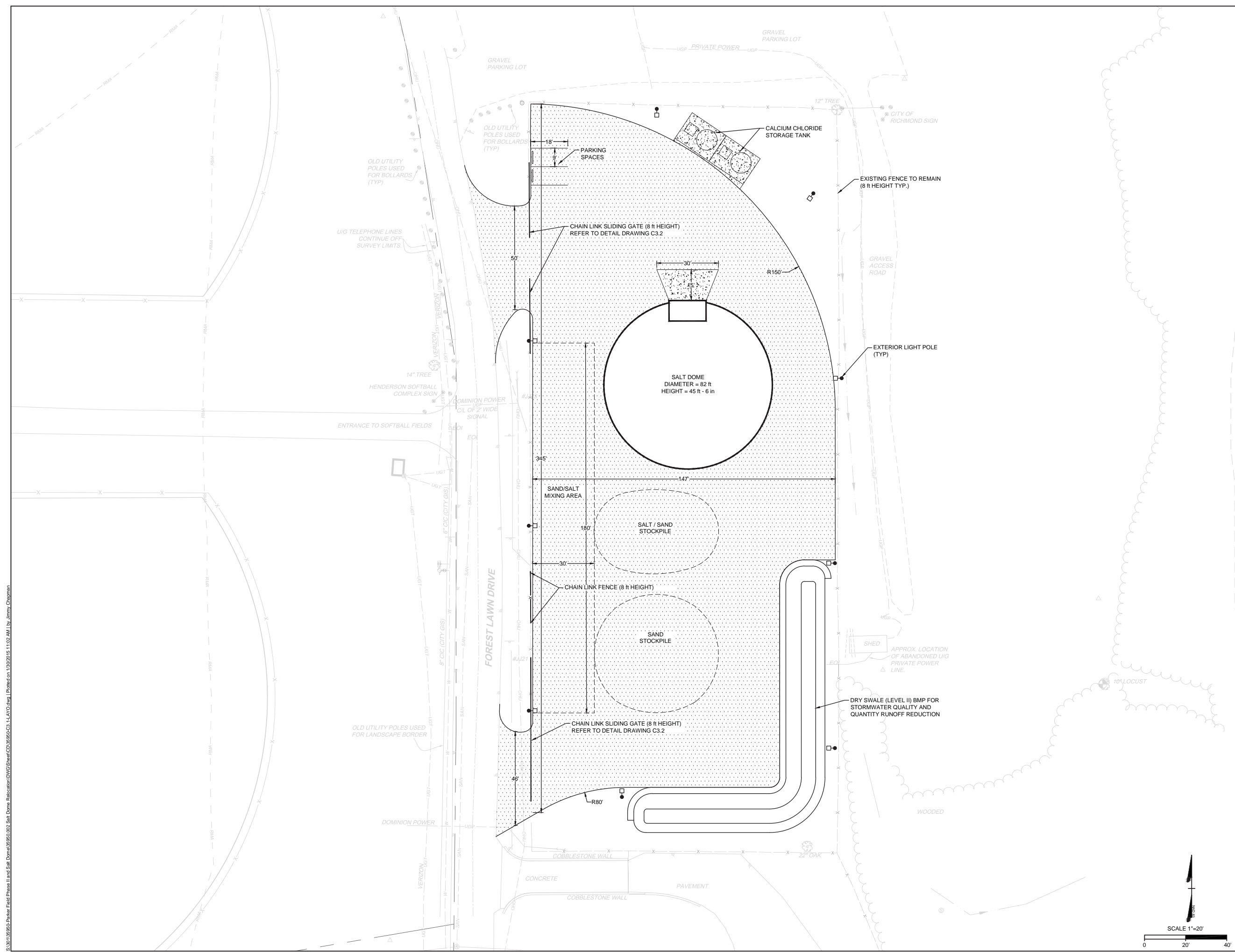
Construction of the new facility is scheduled to begin April 2015. The project is estimated to take 4 months to complete, with the final site work ending by August 2015.

CITY OF RICHMOND
URBAN DESIGN COMMITTEE SUBMISSION
SALT DOME RELOCATION PROJECT

RICHMOND, VIRGINIA



16 January 2015



HATCH LEGEND

- HEAVY DUTY ASPHALT - [Hatched pattern]
- HEAVY DUTY CONCRETE - [Hatched pattern]

**500 FOREST LAWN DRIVE,
RICHMOND, VA 23227**

DATE: 01-16-2015 DRAWN BY: J. CHAPMAN
SCALE: 1"=20' CHECKED BY: C. SIBOLD

REVISIONS	

AS BUILT DATE

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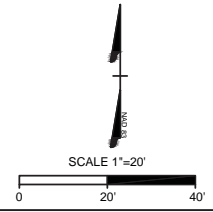
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35950

**SALT DOME RELOCATION
PROJECT**

LAYOUT PLAN

DEPARTMENT OF PUBLIC WORKS CITY OF RICHMOND, VIRGINIA SHEET NO. C3.1



S:\301\35950-Puater Field Phase II and Salt Dome\35950-02 Salt Dome Relocation\DWG\Sheet\C3\35950-C3.1.LAYO.dwg | Plotted on 1/30/2015 11:02 AM | by Jimmy Chapman

GENERAL NOTES:

GENERAL

- 1.) ALL WORKMANSHIP EXCEPT WHERE NOTED OTHERWISE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ADOPTED BUILDING CODE STANDARD OF THE AREA WHERE THE STRUCTURE IS LOCATED.
- 2.) GROUND SNOW DRIFT SHALL NOT BE ALLOWED TO PILE UP AGAINST THE WOOD DOME STRUCTURE.
- 3.) STORED MATERIAL SHALL NOT BE ALLOWED TO PILE UP AGAINST THE WOOD DOME STRUCTURE.

FOUNDATION

- 1.) CONCRETE IN THE FOUNDATION WALL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF NOT LESS THAN 3,000 psi., AIR-ENTRAINED.
- 2.) THE INTERIOR SURFACES OF THE CONCRETE WALL SHALL RECEIVE TWO APPLICATIONS OF A PROTECTIVE COATING OF A MIXTURE CONSISTING OF A 50% EACH MINERAL SPIRITS AND BOILED LINSEED OIL, OR EQUIVALENT. MIXTURE MAY BE BRUSHED, SPRAYED, OR ROLLED.
- 3.) REINFORCED STEEL SHALL BE INTERMEDIATE GRADE DEFORMED ASTM-A615-(LATEST ISSUE) GRADE 60.

TIMBER

- 1.) ALL MATERIALS SHALL CONFORM TO AMERICAN SOFTWOOD LUMBER STANDARD PS-20-(LATEST ISSUE), OR CANADIAN EQUIVALENT.
- 2.) LUMBER SHALL BE DRY #2 OR BETTER, S.P.F. OR BETTER, UNLESS OTHERWISE NOTED.
- 3.) PRE-FAB PANEL PLYWOOD SHALL BE 1/2" THICK, EXPOSURE 1 GRADE, APA RATED AND CONFORM TO PS-1-(LATEST) OR CANADIAN EQUIVALENT.
- 4.) PANEL FRAMING MEMBERS SHALL BE PLANED SO AS TO MEET FLUSH WITH THE PLYWOOD SHEATHING.
- 5.) PLYWOOD EDGES SHALL BE PLANED SO AS TO BUTT AGAINST THE EDGES OF ADJOINING PLYWOOD.
- 6.) PRE-FAB PANEL PLYWOOD SHALL BE GLUED TO THE PANEL FRAMEWORK AND STAPLED WITH 1 3/4" STAPLES AT 4" O.C. MAXIMUM.
- 7.) PRE-FAB PANEL ADHESIVE SHALL BE OF A WATERPROOF TYPE RESORCINOL RESIN ADHESIVE APPLIED AND FACTORY CURED IN ACCORDANCE WITH THE GLUE MANUFACTURERS INSTRUCTIONS.
- 8.) SILL PLATES SHALL BE PRESERVATIVE TREATED LUMBER.

HARDWARE

- 1.) BOLTS SHALL BE HOT DIP GALVANIZED 5/8" DIA. MACHINE BOLTS WITH 2 3/4" SQUARE X 3/16" THICK WASHERS.
- 2.) NAILS FOR FRAMING SHALL BE 3 1/4" GALVANIZED SCREW OR RING SHANK NAILS.
- 3.) STEEL SHALL CONFORM TO ASTM-A36 UNLESS NOTED OTHERWISE.

ROOFING

- 1.) ROOFING MATERIAL SHALL BE ASPHALT 3 TAB SHINGLES WITH MANUFACTURER'S, MINIMUM 25 YEARS WARRANTY, INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS OVER FELT UNDERLAYMENT PER CODE.
- 2.) FLASHING SHALL BE MINIMUM .025" ALUMINUM, APPLIED WHERE INDICATED ON THE DRAWING.

DESIGN LOADS:

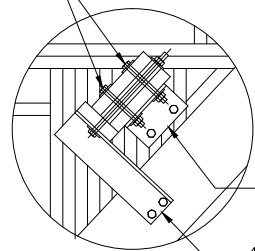
GROUND SNOW LOAD: 55 P.S.F.
WIND DESIGN PRESSURE: 90 M.P.H.

Attention:
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This drawing depicts a dome structure that is covered by one or more patents issued in the United States of America, Canada, Europe, and other foreign countries.

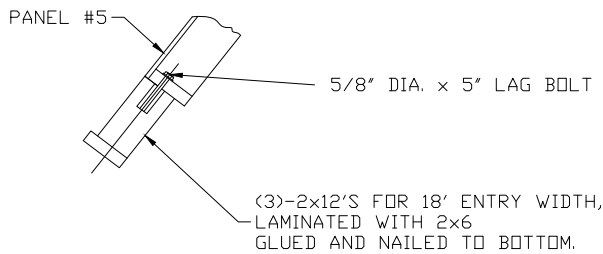
Dome Corporation reserves the right to make minor changes to the drawings and or the specifications to maintain compliance with accepted materials and workmanship standards without prior notification to the purchaser. Dome Corporation guarantees that the changes will no way effect the integrity of the dome.

5/8" DIA. BOLTS x 6" LG. HOLES TO BE OFFSET



4"x4"x1/4"x7" LG. ANGLE & 5/8" DIA. LAG BOLTS x 5"

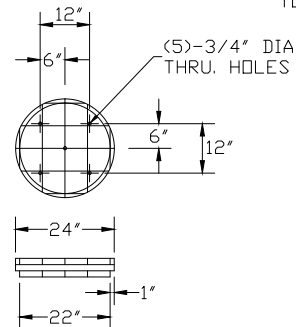
4"x4"x1/4"x16" LG. ANGLE & 5/8" DIA. LAG BOLTS x 5"



LINTEL CONNECTION TO PANEL #5 @ CENTER OF ENTRY

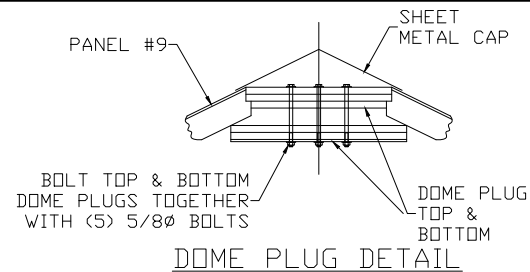
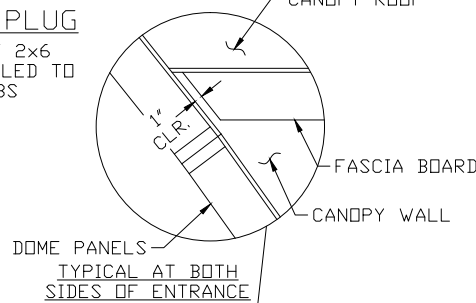
BOTTOM DOME PLUG

2-LAYERS OF 2x6 & 1/2" PLYWOOD ON BOTTOM LAMINATED & BOLTED TO TOP PLUG



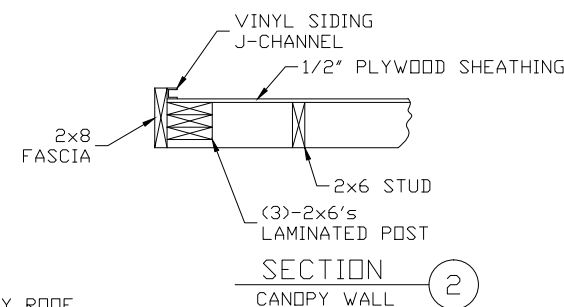
TOP DOME PLUG

3-LAYERS OF 2x6 LAMINATED, NAILED TO PANEL RIBS

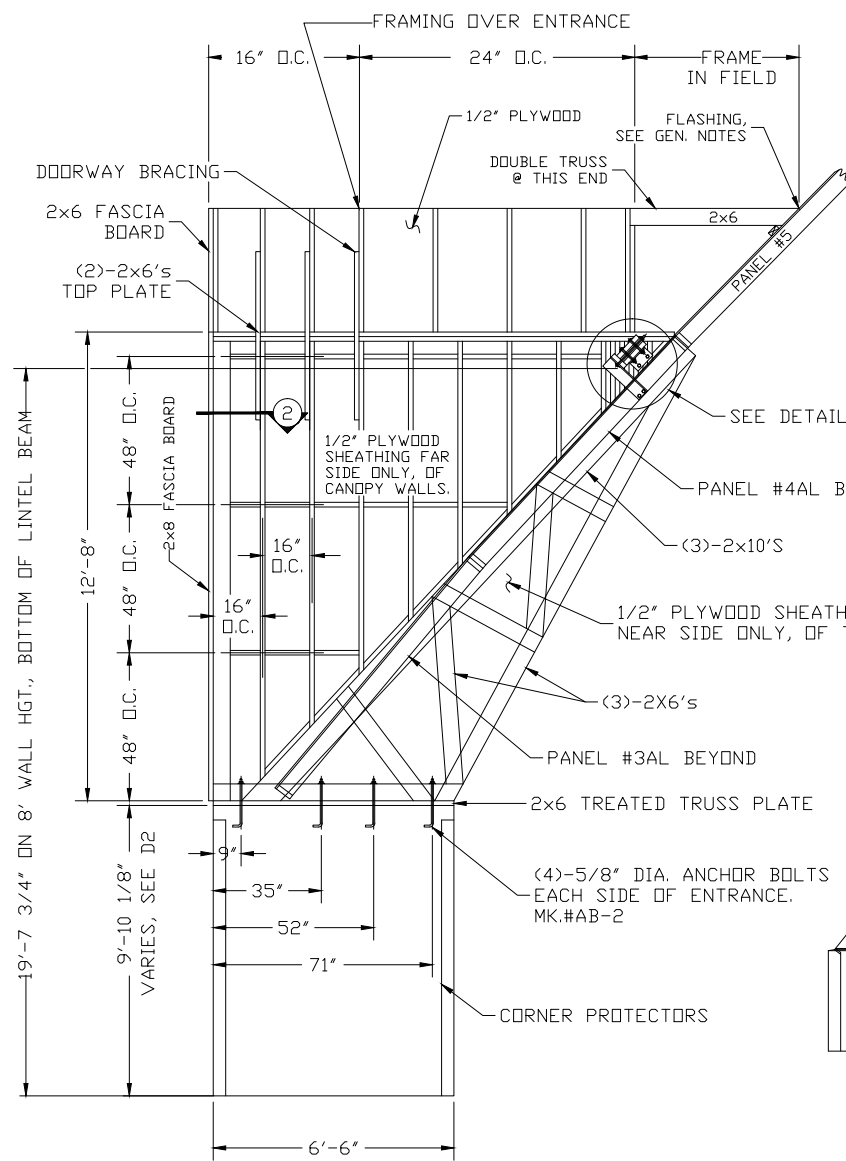


DOME PLUG DETAIL

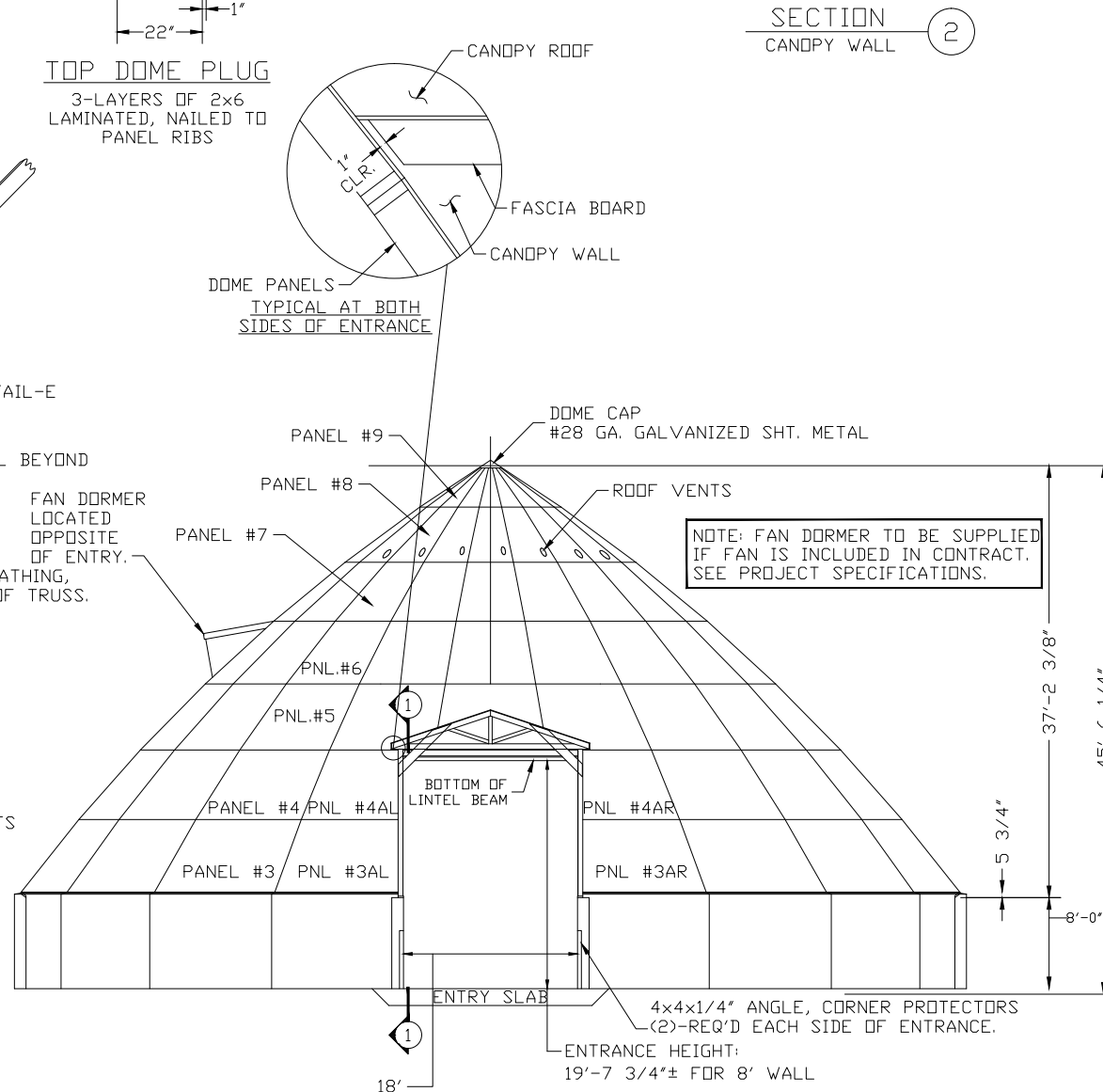
NOTE: PANEL #9 OR PANELS #8 & #9 MAY BE ASSEMBLED ON THE GROUND AND LIFTED INTO PLACE.



SECTION 2
CANOPY WALL



SECTION 1
LEFT SIDE OF ENTRANCE SHOWN, RIGHT SIDE SIMILAR BUT OPPOSITE HAND. NOTE: 2-PANEL TRUSS SHOWN, SCALE: 3/16"=1'-0"



ELEVATION
SCALE: 1/16"=1'-0"

NOTE: FAN DORMER TO BE SUPPLIED IF FAN IS INCLUDED IN CONTRACT. SEE PROJECT SPECIFICATIONS.

500 FOREST LAWN DRIVE, RICHMOND, VA 23227

DATE: 01-16-2015 DRAWN BY: J. CHAPMAN
SCALE: AS SHOWN CHECKED BY: C. SIBOLD

REVISIONS	
AS BUILT	DATE

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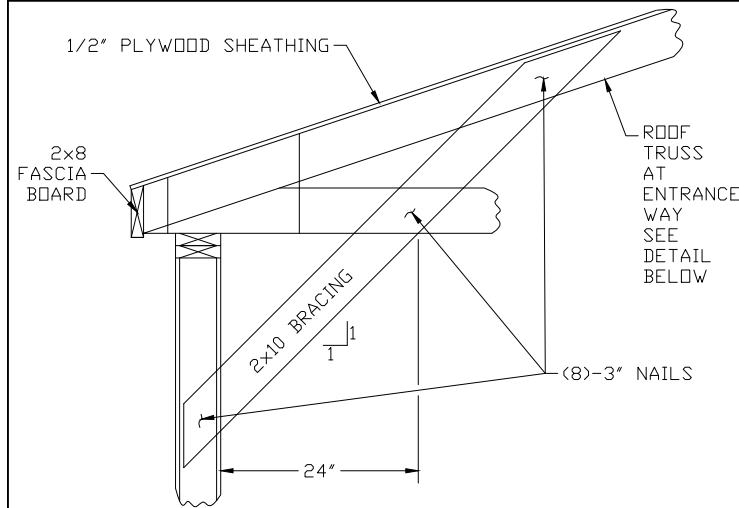
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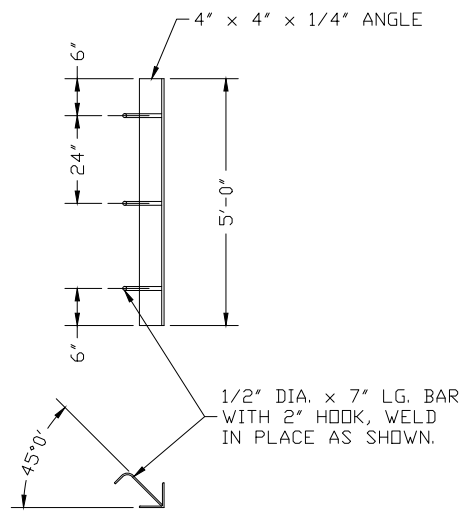
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SALT DOME RELOCATION PROJECT

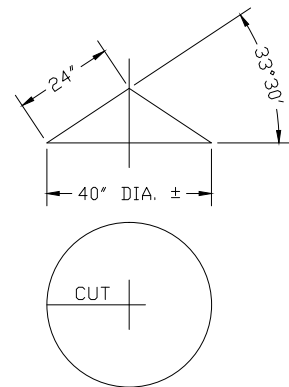
FRONT ELEVATION & GENERAL NOTES



DOORWAY BRACING
SEE SECTION-3 FOR LOCATION



CORNER PROTECTOR DETAIL

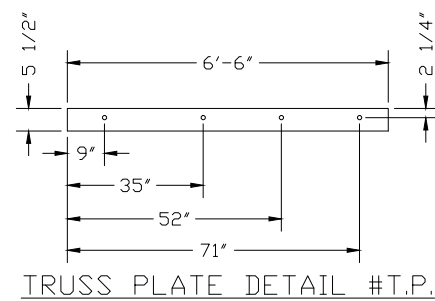


DOMES CAP DETAIL
28 GA. GALVANIZED SHT. METAL

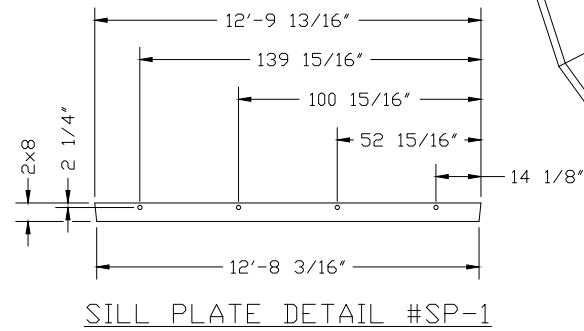
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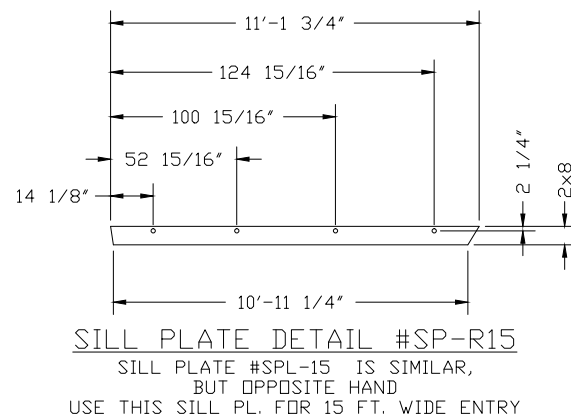
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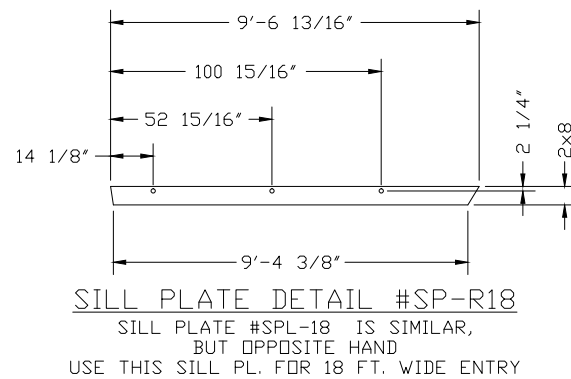
TRUSS PLATE DETAIL #T.P.



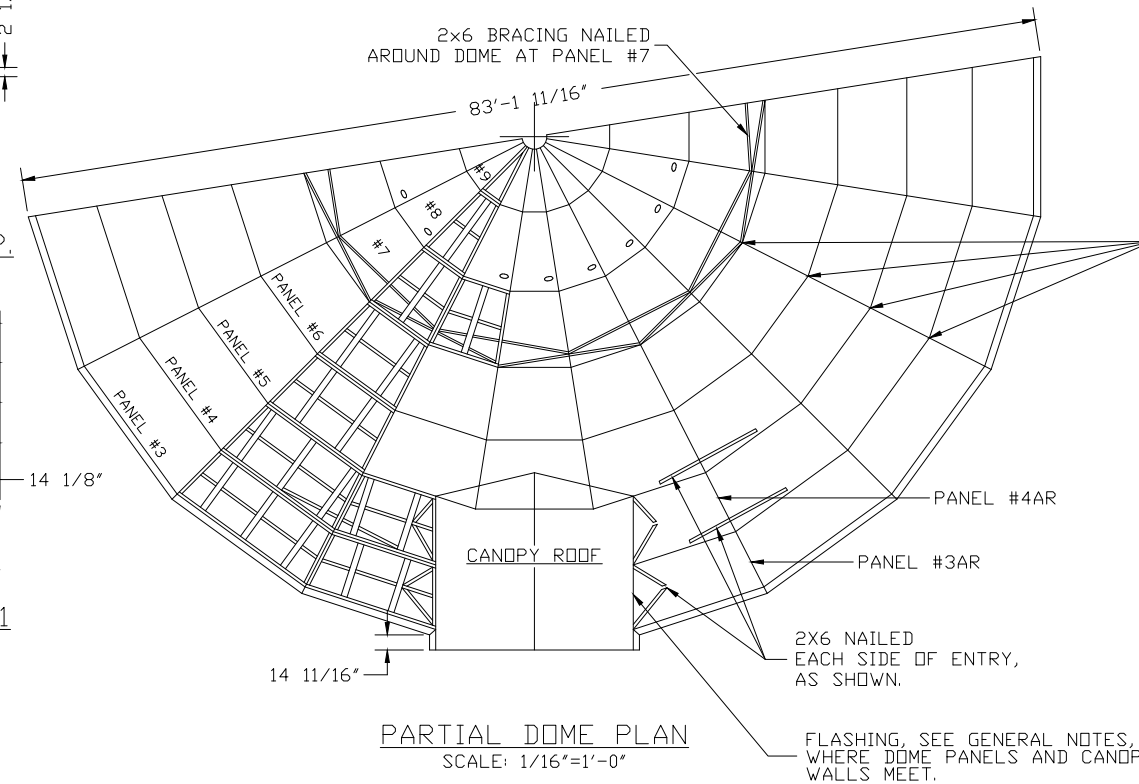
SILL PLATE DETAIL #SP-1



SILL PLATE DETAIL #SP-R15
SILL PLATE #SPL-15 IS SIMILAR,
BUT OPPOSITE HAND
USE THIS SILL PL. FOR 15 FT. WIDE ENTRY



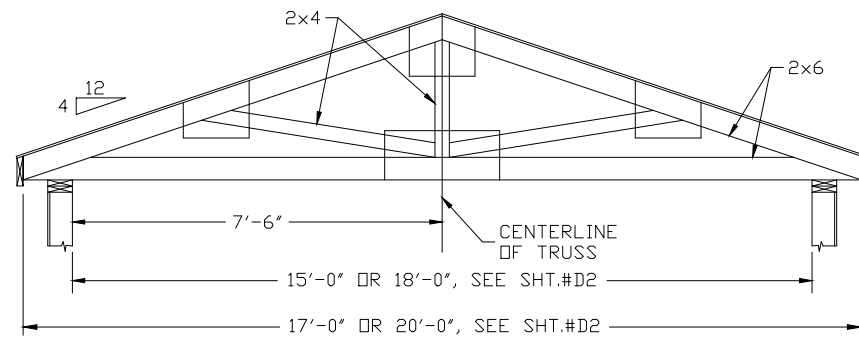
SILL PLATE DETAIL #SP-R18
SILL PLATE #SPL-18 IS SIMILAR,
BUT OPPOSITE HAND
USE THIS SILL PL. FOR 18 FT. WIDE ENTRY



PARTIAL DOME PLAN
SCALE: 1/16"=1'-0"

TYPICAL 12 GA. GALV. SPLICE PLATE BETWEEN PANELS 3-4, 4-5, 5-6, AND 6-7.

FLASHING, SEE GENERAL NOTES, WHERE DOME PANELS AND CANOPY WALLS MEET.



ROOF TRUSS DETAIL FOR ENTRY

NOTE: SILL PLATES ARE THE TEMPLATE FOR BUILDING PANELS. THEY ARE NOT TO BE CUT OR ALTERED IN ANY WAY.

500 FOREST LAWN DRIVE,
RICHMOND, VA 23227

DATE: 01-16-2015 DRAWN BY: J. CHAPMAN
SCALE: AS SHOWN CHECKED BY: C. SIBOLD

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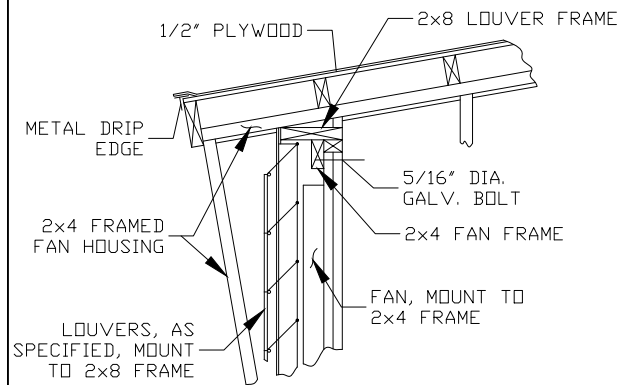
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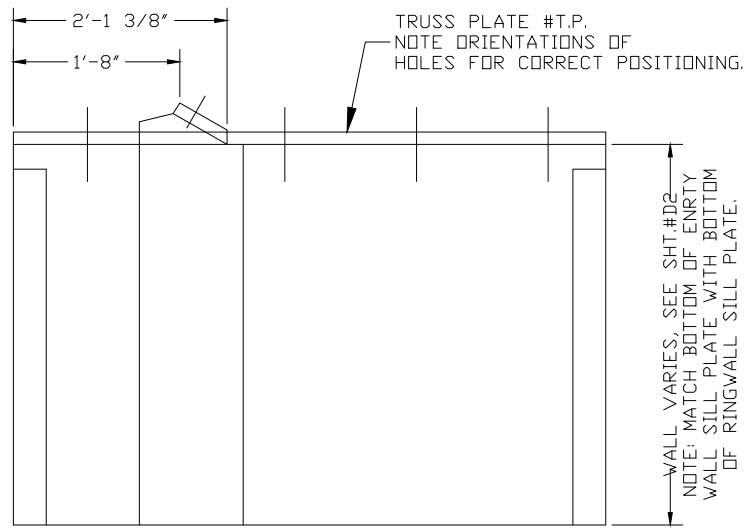
SALT DOME RELOCATION PROJECT

PLAN VIEW & SILL PLATE DETAILS

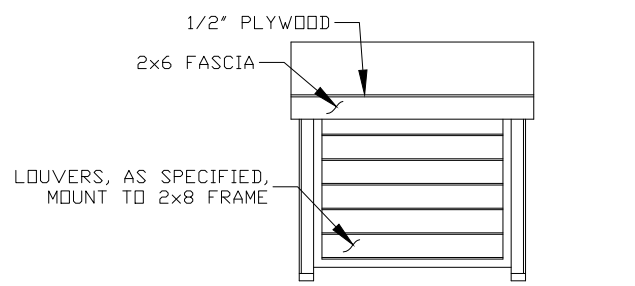
DEPARTMENT OF PUBLIC WORKS SHEET NO. CITY OF RICHMOND, VIRGINIA D2.0



NOTES:
 1. ALL PANEL FRAME MEMBERS ARE 2x6's UNLESS NOTED OTHERWISE.
 2. PLYWOOD, 1/2" MINIMUM THICKNESS.
 3. DIMENSIONS SHOWN ARE OUT TO OUT OF PLYWOOD.

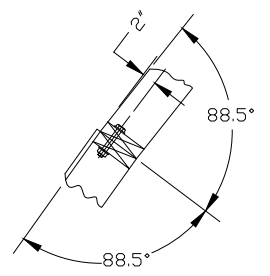


LEFT SIDE OF ENTRY WALL

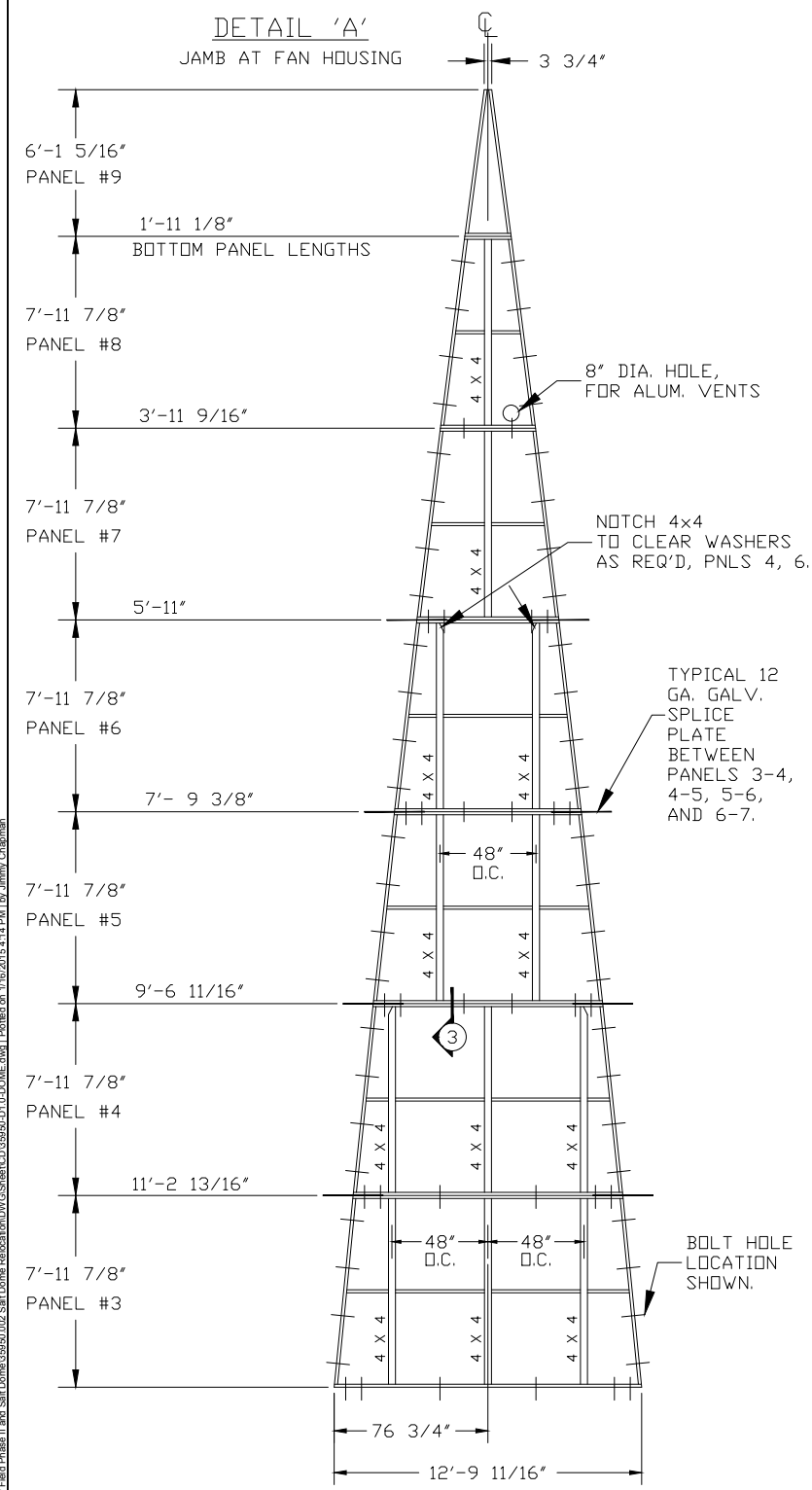


ELEVATION AT FAN HOUSING
SEE DETAILS A & B

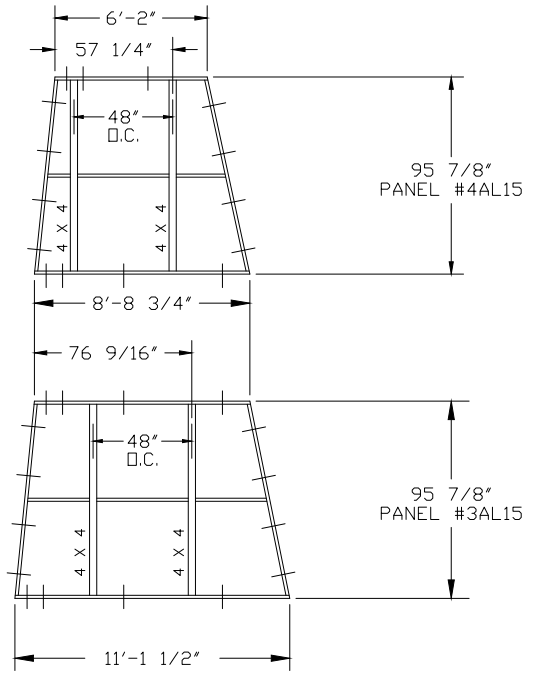
NOTE: FAN DORMER TO BE SUPPLIED IF FAN IS INCLUDED IN CONTRACT. SEE PROJECT SPECIFICATIONS.



SECTION 3

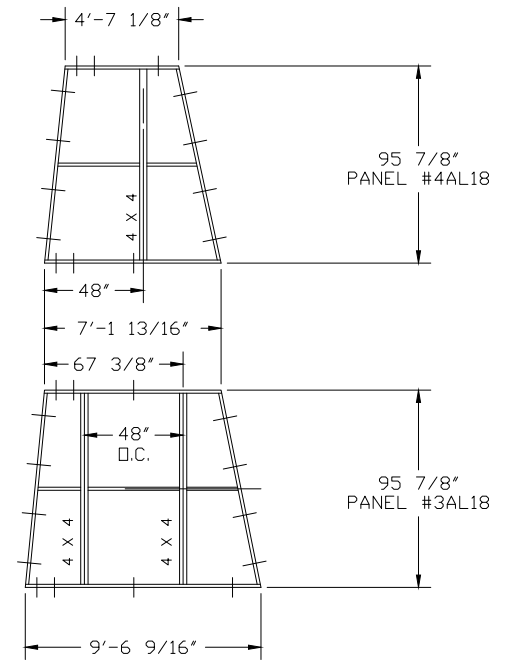


DEVELOPED ELEVATION
SCALE: 1/4"=1'-0"



HALF PANELS FOR 15' ENTRY

NOTE: PANELS, #3AR15, #4AR15 ARE SIMILAR, BUT OPPOSITE HAND.



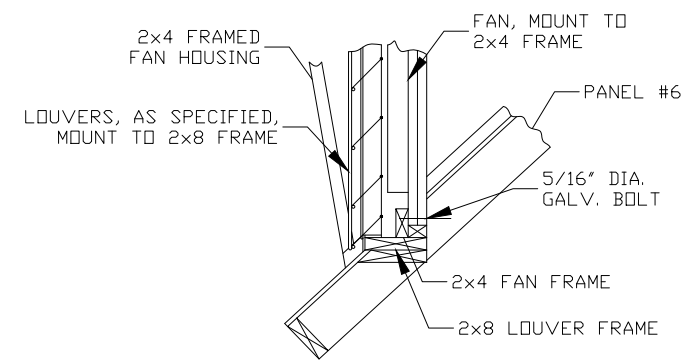
HALF PANELS FOR 18' ENTRY

NOTE: PANELS, #1AR18, #2AR18 ARE SIMILAR, BUT OPPOSITE HAND.

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DETAIL 'B'
AT FAN HOUSING

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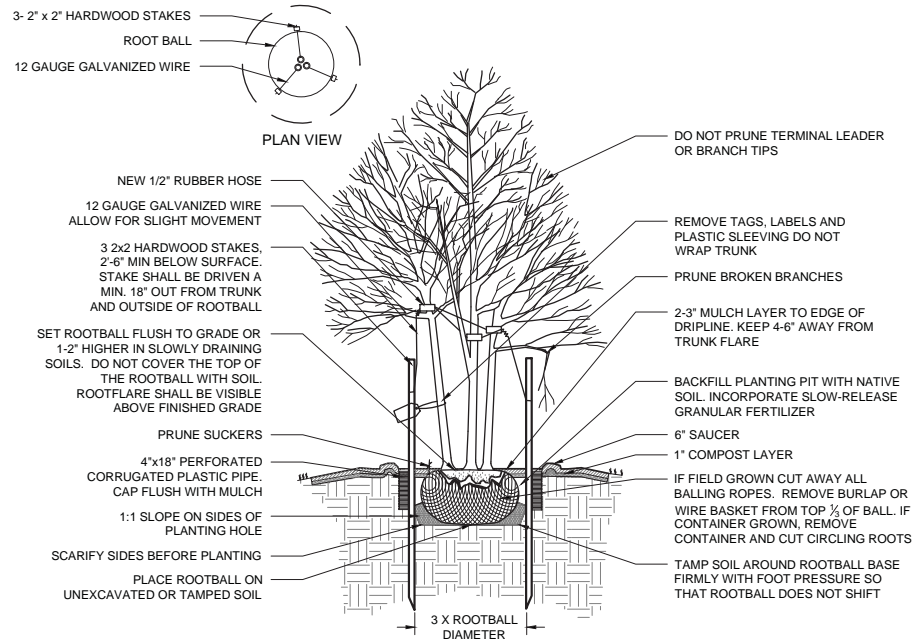
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SALT DOME RELOCATION PROJECT

FAN DORMER & PANEL DETAILS



1 MULTI-STEM TREE - STAKING SPECIFIED
NOT TO SCALE

NOTE: STAKE EVERGREENS 6' OR TALLER, ON SLOPES, WITH LARGE CROWNS, OR IF LOCATED ON WINDY SITES.

REMOVE TAGS, LABELS, AND PLASTIC SLEEVING. DO NOT STAKE UNLESS NECESSARY (SEE NOTE). DO NOT WRAP TRUNK

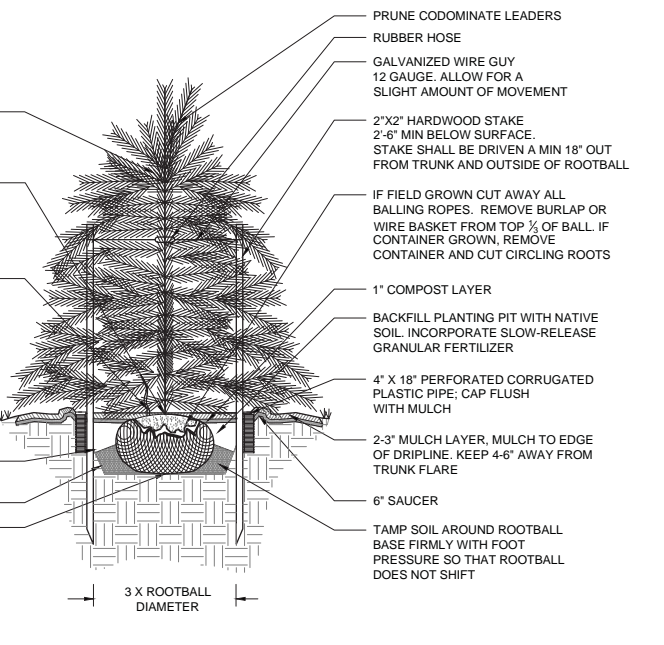
SET ROOTBALL FLUSH TO GRADE OR 1-2" HIGHER IN SLOWLY DRAINING SOILS. DO NOT COVER THE TOP OF THE ROOTBALL WITH SOIL. ROOTFLARE SHALL BE VISIBLE ABOVE FINISHED GRADE.

PRUNE SUCKERS

1:1 SLOPE ON SIDES OF PLANTING HOLE

SCARIFY SIDES BEFORE PLANTING

PLACE ROOTBALL ON UNEXCAVATED OR TAMPED SOIL

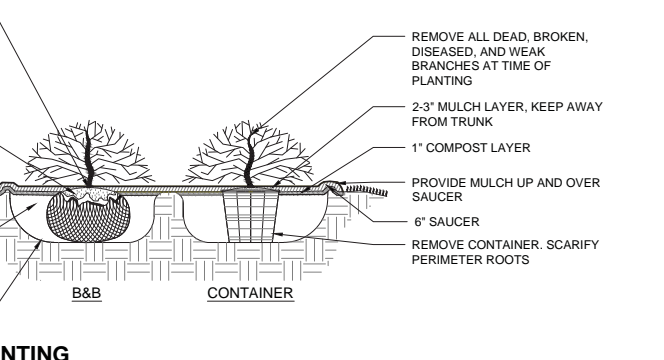


2 CONIFEROUS TREE - STAKING SPECIFIED
NOT TO SCALE

INSTALL SHRUBS SO THAT THE TOP OF THE ROOTBALL IS AT THE SAME GRADE AS ORIGINALLY GROWN OR 1-2" ABOVE IN POOR DRAINING SOILS. DO NOT COVER THE TOP OF THE ROOTBALL WITH SOIL.

REMOVE ALL STRING, WIRE, AND BURLAP FROM TOP 1/2 OF BALL

BACKFILL PLANTING PIT WITH NATIVE SOIL. INCORPORATE SLOW-RELEASE GRANULAR FERTILIZER



3 SHRUB PLANTING
NOT TO SCALE

GENERAL NOTES

PRE-CONSTRUCTION

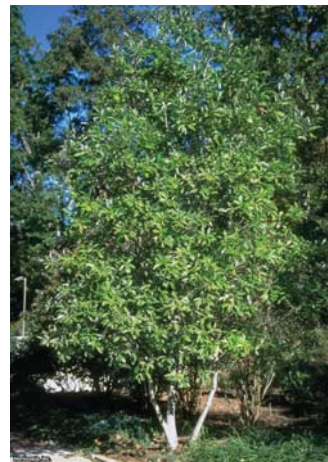
- CONTRACTOR IS RESPONSIBLE FOR CONTACTING "MISS UTILITY" AT 1.800.552.7001 FOR LOCATION OF ALL UTILITY LINES. TREES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM SEWER/WATER CONNECTIONS. NOTIFY LANDSCAPE ARCHITECT OF CONFLICTS.
- VERIFY ALL PLANT MATERIAL QUANTITIES ON THE PLAN PRIOR TO BIDDING. PLANT LIST TOTALS ARE FOR CONVENIENCE ONLY AND SHALL BE VERIFIED PRIOR TO BIDDING.
- PROVIDE PLANT MATERIALS OF QUANTITY, SIZE, GENUS, SPECIES, AND VARIETY INDICATED ON PLANS. ALL PLANT MATERIALS AND INSTALLATION SHALL COMPLY WITH RECOMMENDATIONS AND REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK". IF SPECIFIED PLANT MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON AVAILABILITY TO THE ARCHITECTS, TOGETHER WITH PROPOSAL FOR USE OF EQUIVALENT MATERIAL.
- PROVIDE AND INSTALL ALL PLANTS AS IN ACCORDANCE WITH DETAILS AND CONTRACT SPECIFICATIONS

CONSTRUCTION/INSTALLATION

- LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS AND MATERIALS THAT ARE IN AN UNHEALTHY OR UNSIGHTLY CONDITION, AS WELL AS PLANTS AND MATERIALS THAT DO NOT CONFORM TO ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK" LABEL AT LEAST ONE TREE AND ONE SHRUB OF EACH VARIETY AND CALIPER WITH A SECURELY ATTACHED, WATERPROOF TAG BEARING THE DESIGNATION OF BOTANICAL AND COMMON NAME.
- INSTALL LANDSCAPE PLANTINGS AT ENTRANCES/EXITS AND PARKING AREAS ACCORDING TO PLANS SO THAT MATERIALS WILL NOT INTERFERE WITH SIGHT DISTANCES.
- CONTRACTOR IS RESPONSIBLE FOR WATERING ALL PLANT MATERIAL DURING INSTALLATION AND UNTIL FINAL INSPECTION AND ACCEPTANCE BY OWNER. CONTRACTOR SHALL NOTIFY OWNER OF CONDITIONS WHICH AFFECTS THE GUARANTEE.

INSPECTIONS/GUARANTEE

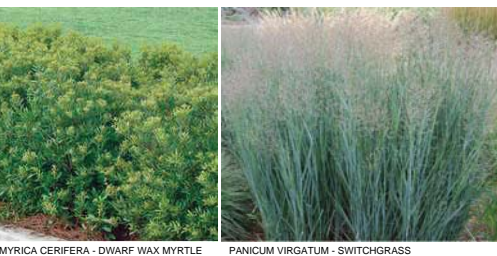
- UPON COMPLETION OF LANDSCAPE INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR WHO WILL VERIFY COMPLETENESS, INCLUDING THE REPLACEMENT OF ALL DEAD PLANT MATERIAL. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A FINAL INSPECTION BY THE LANDSCAPE ARCHITECT.
- ALL EXTERIOR PLANT MATERIALS SHALL BE GUARANTEED FOR ONE FULL YEAR AFTER DATE OF FINAL INSPECTION AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH. DEFECTS RESULTING FROM NEGLIGENCE BY THE OWNER, ABUSE OR DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS WHICH ARE BEYOND THE CONTRACTORS CONTROL ARE NOT THE RESPONSIBILITY OF THE CONTRACTOR
- PLANT MATERIAL QUANTITIES AND SIZES WILL BE INSPECTED FOR COMPLIANCE WITH APPROVED PLANS BY A SITE PLAN REVIEW AGENT OF THE PLANNING DEPARTMENT PRIOR TO THE RELEASE OF THE CERTIFICATE OF OCCUPANCY.
- REMOVE ALL GUY WIRES AND STAKES 12 MONTHS AFTER INSTALLATION.



MAGNOLIA VIRGINIANA - SWEETBAY MAGNOLIA



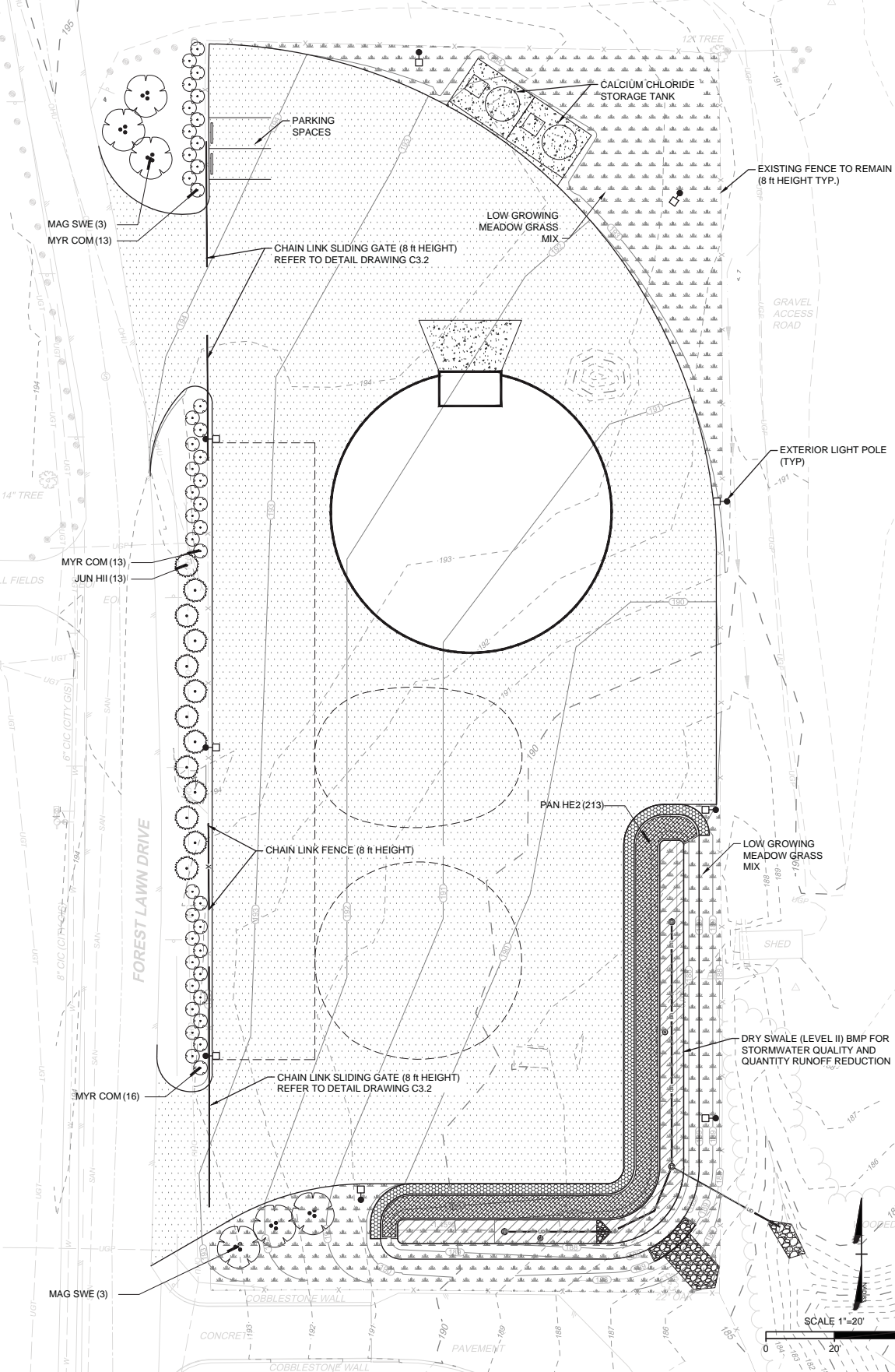
JUNIPERUS VIRGINIANA 'HILLII' - EASTERN RED CEDAR



MYRICA CERIFERA - DWARF WAX MYRTLE PANICUM VIRGATUM - SWITCHGRASS

PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	MINIMUM INSTALLED SIZE	ROOT	REMARKS
MAG SWE	6	MAGNOLIA VIRGINIANA	SWEET BAY	7' HT	B&B	MULTI-STEM
EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	MINIMUM INSTALLED SIZE	ROOT	REMARKS
JUN HII	13	JUNIPERUS VIRGINIANA 'HILLII'	HILLII JUNIPER	7' HT	B&B	SPECIMEN
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	MINIMUM INSTALLED SIZE	ROOT	SPACING
MYR COM	42	MYRICA CERIFERA 'COMPACTA'	WAX MYRTLE	24" HT/SPRD	CONTAINER	AS SHOWN
GRASSES	QTY	BOTANICAL NAME	COMMON NAME	MINIMUM INSTALLED SIZE	ROOT	SPACING
PAN HE2	213	PANICUM VIRGATUM 'HEAVY METAL'	BLUE SWITCH GRASS	1 GAL	CONTAINER	30" OC



500 FOREST LAWN DRIVE,
RICHMOND, VA 23227

DATE: 01-16-2015 DRAWN BY: L. PAUL
SCALE: 1" = 20' CHECKED BY: F. HANCOCK

REVISIONS	

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.

Site Development | Residential | Infrastructure | Technology

VIRGINIA | NORTH CAROLINA | WEST VIRGINIA

THIS DRAWING PREPARED AT THE
CORPORATE OFFICE
1001 Boulders Parkway, Suite 300 | Richmond, VA 23225
TEL 804.200.6500 FAX 804.560.1016 www.timmons.com

35950

SALT DOME RELOCATION PROJECT

LANDSCAPE PLAN

S:\301\35950-Pulaski Field Phase II and Salt Dome Relocation\DWG\Sheet\CD\35950.L1.L1.PLT.dwg | Printed on: 1/20/2015 11:52 AM by Jimmy Chagnon



16 JANUARY 2015

SALT DOME RELOCATION PROJECT
PROTOTYPE PHOTOGRAPH



ASPHALT SHINGLES



CONCRETE WALL



KAD LED LED Area Luminaire



Catalog Number	
Notes	
Type	

Specifications

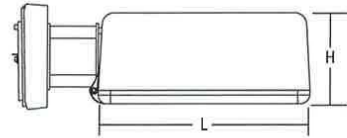
EPA: 1.2 ft²
(0.11 m²)

Length: 17-1/2"
(44.5 cm)

Width: 17-1/2"
(44.5 cm)

Height: 7-1/8"
(18.1 cm)

Weight (max): 36 lbs.
(16.4 kg)



Introduction

The Contour® Series luminaires offer traditional square dayforms with softened edges for a versatile look that complements many applications. The KAD LED combines the latest in LED technology with the familiar aesthetic of the Contour® Series for stylish, high-performance illumination that lasts. It is ideal for replacing 100- 400W metal halide in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: KAD LED 40C 1000 40K R5 MVOLT PUMBAK04 DDBXD

Series	LEDs	Drive current	CCT	Distribution	Voltage	Mounting
KAD LED	20C 20 LEDs	530 530 mA	30K 3000 K	R2 Type II	MVOLT	Shipped included
	30C 30 LEDs	700 700 mA	40K 4000 K	R3 Type III	120 ¹	PUMBAK Universal mounting adaptor ¹ 04 4" arm
	40C 40 LEDs	1000 1000 mA	50K 5000 K	R4 Type IV	208 ¹	SPD Square pole 06 6" arm
	60C 60 LEDs			R5 Type V	240 ¹	RPD Round pole 09 9" arm
					277 ¹	WBD Wall bracket 12 12" arm
					347	WWD Wood pole or wall
					480	Shipped separately
						DAD12P Degree arm (pole)
						DAD12WB Degree arm (wall)

Options	Finish (required)
Shipped installed	DDBXD Dark bronze
PER7 NEMA twist-lock receptacle only (no controls)	DBLXD Black
SF Single fuse (120, 277, 347V) ¹	DNAXD Natural aluminum
DF Double fuse (208, 240, 480V) ¹	DWHXD White
PIR Motion sensor, 8-15' mounting height ⁴	DDBTXD Textured dark bronze
PIRH Motion sensor, 15-30' mounting height ⁴	DBLXD Textured black
BL30 Bi-level switched dimming, 30% ^{5,6}	DNATXD Textured natural aluminum
BL50 Bi-level switched dimming, 50% ^{5,6}	DWHGXD Textured white

Drilling

Template #5
Top of Pole

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	PhotoCell - SSL twist-lock (210-277V) ⁸	KMA DDBXD U	Mast arm adaptor (specify finish)
DLL347F 1.5 CUL JU	PhotoCell - SSL twist-lock (347V) ⁸	KADWGU	Wire guard accessory
DLL480F 1.5 CUL JU	PhotoCell - SSL twist-lock (480V) ⁸	PUMBAK DDBXD U ⁸	Square and round pole universal mounting bracket adaptor (specify finish)
SCU	Shorting cap ⁸		
KADLEDHS U	Houseside shield		

For more control options, visit [DTL](#) and [ROAM](#) online.

Tenon Mounting Slipfitter*

Tenon O.D.	Single O.D.	2 at 180°	3 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	T20-190	T20-200	T20-290	T20-320 ¹	T20-390	T20-490
2-7/8"	T25-190	T25-200	T25-290	T25-320	T25-390	T25-490
4"	T35-190	T35-200	T35-290	T35-320	T35-390	T35-490

* For round pole mounting (RPA) only. ¹ Requires 9" or 12" arm.

NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Available as a separate combination accessory: PUMBAK (finish) U.
- Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required. Additional hardware and services required for ROAM® deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices.net. N/A with BL30, BL50, PIR or PIRH.
- PIR specifies the SensorSwitch SBGR-10-ODP control; PIRH specifies the SensorSwitch SBGR-8-ODP control; see [Motion Sensor Guide](#) for details. Dimming driver standard.
- Requires an additional switched circuit with same phase as main luminaire power.
- Dimming driver standard. MVOLT only.
- Also available as a separate accessory; see Accessories information at left.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.



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Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C 32°F	1.02
10°C 50°F	1.01
20°C 68°F	1.00
25°C 77°F	1.00
30°C 86°F	1.00
40°C 104°F	0.99

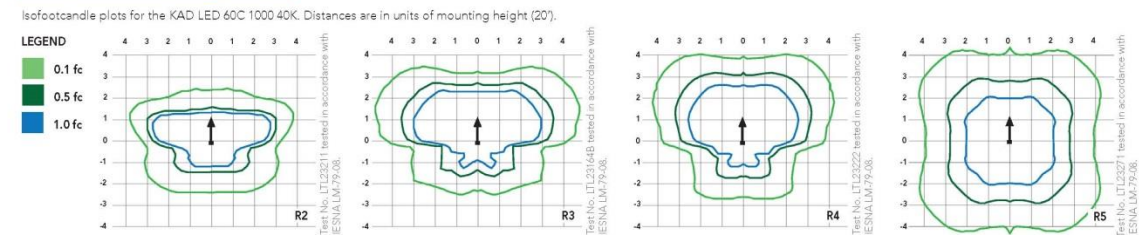
Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the KAD LED platform in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	KAD LED 60C 1000			
	1.0	0.91	0.86	0.76
	KAD LED 40C 1000			
	1.0	0.93	0.88	0.79
KAD LED 60C 700				
1.0	0.98	0.97	0.94	

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [KAD LED homepage](#).



FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings and long life of the KAD LED area luminaire make it a reliable choice for illuminating streets, walkways, parking lots, and surrounding areas.

CONSTRUCTION

Single-piece die-cast, aluminum housing with contoured edges has a 0.12" nominal wall thickness. Die-cast door frame has an impact-resistant, tempered glass lens that is fully gasketed with one piece tubular silicone.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

OPTICS

Precision-molded refractive acrylic lenses are available in four distributions. Light engines are available in standard 4000K, 3000K or 5000K (70 CRI) configurations.

ELECTRICAL

Light engine consists of high-efficacy LEDs mounted to a metal-core circuit board and aluminum heat sink, ensuring optimal thermal management and long life. Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. Easily-serviceable surge protection device meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION

Included universal mounting block and extruded aluminum arm facilitate quick and easy installation using nearly any existing drilling pattern. Stainless steel bolts fasten the luminaire to the mounting block securing it to poles or walls. The KAD LED can withstand up to a 1.5 G vibration loading rating per ANSI C136.31. The KAD LED also utilizes the standard K-Series (Template #5) for pole drilling.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Specifications subject to change without notice.



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KAD-LED
Rev. 12/17/14



FEATURES & SPECIFICATIONS

INTENDED USE — Square straight steel pole for up to 39-foot mounting height.

CONSTRUCTION — Weldable-grade, hot-rolled, commercial-quality carbon steel tubing with a minimum yield of 55,000 psi (11-gauge), or 50,000 psi (7-gauge). Uniform wall thickness of .1196" or .1793". Shaft is one-piece with a full-length longitudinal high-frequency electric resistance weld. Uniformly square in cross-section with flat sides, small corner radii and excellent torsional qualities. Available shaft widths are 4, 5 and 6 inches.

Anchor base is fabricated from hot-rolled carbon steel plate conforming to ASTM A36, that meets or exceeds a minimum yield strength of 36,000 psi. Base plate and shaft are circumferentially welded top and bottom. Base cover is finished to match pole.

A handhole having nominal dimensions of 3" x 5" for all shafts. Included is a cover with attachment screws. Top cap provided with all drill-mount and open top "PT" poles.

Fasteners are high-strength galvanized, zinc-plated or stainless steel.

Finish: Must specify finish.

Grounding: Provision located immediately inside handhole rim. Grounding hardware is not included (provided by others).

Anchor bolts: Top portion of anchor bolt is galvanized per ASTM A-153. Made of steel rod having a minimum yield strength of 55,000 psi.

Note: Specifications subject to change without notice.

Actual performance may differ as a result of end-user environment and application.

Catalog Number
Notes
Type



Anchor Base Poles

SSS

SQUARE STRAIGHT STEEL

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

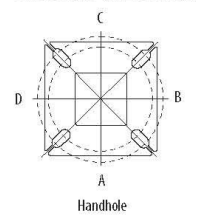
Example: SSS 20 5C DM19 DDB

Series	Nominal fixture mounting height	Nominal shaft base size/wall thickness	Mounting ¹	Options	Finish ¹⁰	
SSS	10 – 29 feet (See back page.)	(See back page.)	Tenon mounting PT Open top (includes top cap) T20 2-3/8" O.D. (2" NPS) T25 2-7/8" O.D. (2-1/2" NPS) T30 3-1/2" O.D. (3" NPS) T35 4" O.D. (3-1/2" NPS) Drill mounting² DM19 1 at 90° DM28 2 at 180° DM28 PL 2 at 180° with one side plugged DM29 2 at 90° DM39 3 at 90° DM49 4 at 90° CSX/DSX/AERIS™/OMERO™ Drill mounting³ DM19AS 1 at 90° DM28AS 2 at 180° DM29AS 2 at 90° DM39AS 3 at 90° DM49AS 4 at 90°	AERIS™ Suspend drill mounting⁴ DM19AST 1 at 90° DM28AST 2 at 180° DM29AST 2 at 90° DM39AST 3 at 90° DM49AST 4 at 90° OMERO™ Suspend drill mounting⁴ DM19MRT 1 at 90° DM28MRT 2 at 180° DM29MRT 2 at 90° DM39MRT 3 at 90° DM49MRT 4 at 90°	Shipped installed L/AB Less anchor bolts VD Vibration damper TP Tamper proof HI-185xx Horizontal arm bracket (1 fixture) ^{5,6} FDLxx Festoon outlet less electrical ⁶ CPL12xx 1/2" coupling ⁴ CPL34xx 3/4" coupling ⁴ CPL1xx 1" coupling ⁴ NPL12xx 1/2" threaded nipple ⁴ NPL34xx 3/4" threaded nipple ⁴ NPL1xx 1" threaded nipple ⁴ EHHxx Extra handhole ^{4,6} MAEX Match existing ⁷ USPOH United States point of manufacture ⁸ IC Interior coating ⁹	Standard colors DDB Dark bronze DWH White DBL Black DMB Medium bronze DNA Natural aluminum Classic colors DSS Sandstone DGC Charcoal gray DTG Tennis green DBR Bright red DSB Steel blue Architectural colors (powder finish)¹⁰

NOTES:

- PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, follow this example: DM28/T20. The combination includes a required extra handhole.
- The drilling template to be used for a particular luminaire depends on the luminaire that is used. Refer to the Technical Data Section of the Outdoor Binder for Drilling Templates.
- Insert "1" or "2" to designate fixture size; e.g. DM19AS12.
- Specify location and orientation when ordering option.
For 1st "x": Specify the height in feet above base of pole.
Example: 5ft = 5 and 20ft = 20
For 2nd "x": Specify orientation from handhole (A,B,C,D)
Refer to the Handhole Orientation diagram above.
- Horizontal arm is 18" x 2-3/8" O.D. tenon standard.
- Combination of tenon-top and drill mount includes extra handhole.
- Must add original order number
- Use when mill certifications are required.
- Provides enhanced corrosion resistance.
- Additional colors available; see www.lithonia.com/archcolors or Architectural Colors brochure (Form No. 794.3). Powder finish standard.

HANDHOLE ORIENTATION



IMPORTANT INSTALLATION NOTES:

- Do not erect poles without having fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- Lithonia Lighting is not responsible for the foundation design.

OUTDOOR

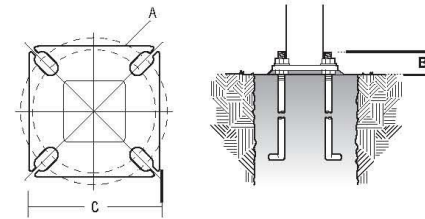
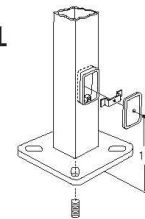
POLE-SSS

SSS Square Straight Steel Poles

TECHNICAL INFORMATION													
Catalog Number	Nominal mount ht. (ft)	Pole Shaft Size (in x ft)	Wall Thickness (in)	Gauge	EPA (ft ²) with 1.3 gust					Bolt Circle (in)	Bolt Size (in x in x in)	Approximate ship (lbs)	
					80 mph	Max. weight	90 mph	Max. weight	100 mph				Max. weight
SSS 10 4C	10	4.0 x 10.0	0.1196	11	30.6	765	23.8	595	18.9	473	8-9	3/4 x 18 x 3	75
SSS 12 4C	12	4.0 x 12.0	0.1196	11	24.4	610	18.8	470	14.8	370	8-9	3/4 x 18 x 3	90
SSS 14 4C	14	4.0 x 14.0	0.1196	11	19.9	498	15.1	378	11.7	293	8-9	3/4 x 18 x 3	100
SSS 16 4C	16	4.0 x 16.0	0.1196	11	15.9	398	11.8	295	8.9	223	8-9	3/4 x 18 x 3	115
SSS 18 4C	18	4.0 x 18.0	0.1196	11	12.6	315	9.2	230	6.7	168	8-9	3/4 x 18 x 3	125
SSS 20 4C	20	4.0 x 20.0	0.1196	11	9.6	240	6.7	167	4.5	150	8-9	3/4 x 18 x 3	140
SSS 20 4G	20	4.0 x 20.0	0.1793	7	14	350	11	275	8	200	8-9	3/4 x 30 x 3	198
SSS 20 5C	20	5.0 x 20.0	0.1196	11	17.7	443	12.7	343	9.4	235	10-12	1 x 36 x 4	185
SSS 20 5G	20	5.0 x 20.0	0.1793	7	28.1	703	21.4	535	16.2	405	10-12	1 x 36 x 4	265
SSS 25 4C	25	4.0 x 25.0	0.1196	11	4.8	150	2.6	100	1	50	8-9	3/4 x 18 x 3	170
SSS 25 4G	25	4.0 x 25.0	0.1793	7	10.8	270	7.7	188	5.4	135	8-9	3/4 x 30 x 3	245
SSS 25 5C	25	5.0 x 25.0	0.1196	11	9.8	245	6.3	157	3.7	150	10-12	1 x 36 x 4	225
SSS 25 5G	25	5.0 x 25.0	0.1793	7	18.5	463	13.3	333	9.5	238	10-12	1 x 36 x 4	360
SSS 30 4G	30	4.0 x 30.0	0.1793	7	6.7	168	4.4	110	2.6	65	8-9	3/4 x 30 x 3	295
SSS 30 5C	30	5.0 x 30.0	0.1196	11	4.7	150	2	50	--	--	10-12	1 x 36 x 4	265
SSS 30 5G	30	5.0 x 30.0	0.1793	7	10.7	267	6.7	167	3.9	100	10-12	1 x 36 x 4	380
SSS 30 6G	30	6.0 x 30.0	0.1793	7	19	475	13.2	330	9	225	11-13	1 x 36 x 4	520
SSS 35 5G	35	5.0 x 35.0	0.1793	7	5.9	150	2.5	100	--	--	10-12	1 x 36 x 4	440
SSS 35 6G	35	6.0 x 35.0	0.1793	7	12.4	310	7.6	190	4.2	105	11-13	1 x 36 x 4	540
SSS 39 6G	39	6.0 x 39.0	0.1793	7	7.2	180	3	75	--	--	11-13	1 x 36 x 4	605

POLE DATA						
Shaft base size	Bolt circle A	Bolt projection B	Base square C	Template description	Anchor bolt description	Anchor bolt and template number
4" C	8-1/2"	2-3/4"-4"	8"	ABTEMPLATE PJ50004	AB18-0	ABSSS-4C
4" G	8-1/2"	2-3/4"-4"	8"	ABTEMPLATE PJ50004	AB30-0	ABSSS-4G
5"	10"-12"	3-3/8"-4"	11"	ABTEMPLATE PJ50010	AB36-0	ABSSS-5
6"	11"-13"	3-3/8"-4"	12-1/2"	ABTEMPLATE PJ50011	AB36-0	N/A

BASE DETAIL



IMPORTANT:

These specifications are intended for general purposes only. Lithonia reserves the right to change material or design, without prior notice, in a continuing effort to upgrade its products.



POLE-SSS

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