



State of West Virginia  
 Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

# Request for Quotation

RFQ NUMBER
BPH60353

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
RDN PRICE
304-558-0492

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 RADIANT/ROHN  
 6718 W PLANK ROAD  
 PEORIA IL 61604

SHIPTO

HEALTH AND HUMAN RESOURCES  
 BPH - TRAUMA & EMERGENCY CARE  
 SYSTEM  
 VARIOUS LOCALES AS INDICATED  
 ON PURCHASE ORDER

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
05/24/2006				

BID OPENING DATE	06/08/2006	BID OPENING TIME	01:30PM
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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		968-15		
<p>OPEN END CONTRACT TO PROVIDE COMMUNICATION TOWERS</p> <p>OPEN END CONTRACT</p> <p>TO ESTABLISH AN OPEN END CONTRACT FOR VARIOUS COMMUNICATIONS TOWERS FOR BUILD-OUT OF THE STATEWIDE MEDICAL COMMAND MICROWAVE INTEROPERABLE COMMUNICATIONS SYSTEM PER THE ATTACHED SPECIFICATIONS.</p> <p>EXHIBIT 3</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON ..... AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE	TELEPHONE	DATE	
<i>Quill Hy</i>	304-697-4400	6/7/06	
FILE	PERM	ADDRESS CHANGES TO BE NOTED ABOVE	
<i>Quillators Alvin</i>	51-02-63586		

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS**  
**REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required registration fee (Effective June 8, 2006, the fee will change from \$45.00 to \$125.00 pursuant to House Bill 4031.)
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this contract is automatically null and void, and is terminated without further order.
14. **HIPAA Business Associate Addendum** - The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

**INSTRUCTIONS TO BIDDERS**

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as EQUAL to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F O B destination unless alternate shipping terms are clearly identified in the quotation.
6. **DUPLICATE BIDS:** All quotations must be delivered by the bidder to the respective offices listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

**ORIGINAL SIGNED BID TO:**

Department of Administration  
Purchasing Division  
2019 Washington Street East  
Post Office Box 50130  
Charleston, WV 25305-0130

**DUPLICATE BID TO:**

State Auditor's Office  
Bid Observer  
Building 1 Room W114  
1900 Kanawha Boulevard, East  
Charleston, WV 25305-0230

NOTICE: Beginning June 8, 2006, there is no need to submit a duplicate bid to the State Auditor's Office pursuant to House Bill 4031.



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**BPH60353**

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**2**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
 RDN PRICE  
 304-558-0492

VENDOR

RFQ COPY  
 TYPE NAME/ADDRESS HERE

SHIP TO

HEALTH AND HUMAN RESOURCES  
 BPH - TRAUMA & EMERGENCY CARE  
 SYSTEM  
 VARIOUS LOCALES AS INDICATED  
 ON PURCHASE ORDER

DATE PRINTED <b>05/24/2006</b>	TERMS OF SALE	SHIP VIA	FOR	FREIGHT TERMS
BID OPENING DATE <b>06/08/2006</b>		BID OPENING TIME <b>01:30PM</b>		

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICE SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF THE CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN STATE CONTRACT ORDER (FORM NUMBER WV-39) TO THE VENDOR FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL COPY OF THE WV-39 SHALL BE MAILED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT, A SECOND COPY MAILED TO THE PURCHASING DIVISION, AND A THIRD COPY RETAINED BY THE SPENDING UNIT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
FIRM		ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO REQ. INSERT NAME AND ADDRESS IN SPACE ABOVE LABELLED VENDOR



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Quotation

BPH60353

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HEALTH AND HUMAN RESOURCES  
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RFQ COPY

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06/08/2006	01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ORDER.						
THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM.						
REV. 04/11/2001						
EXHIBIT 6						
PRICE ADJUSTMENT PROVISION: THE STATE OF WEST VIRGINIA WILL CONSIDER BIDS THAT CONTAIN PROVISIONS FOR PRICE ADJUSTMENTS PRIOR TO THE ORIGINAL EXPIRATION OF THE CONTRACT, PROVIDED THAT SUCH PRICE ADJUSTMENT COVERS BOTH UPWARD AND DOWNWARD MOVEMENT OF THE COMMODITY PRICE, AND THAT ADJUSTMENT IS BASED ON THE "PASS THROUGH" INCREASE OR DECREASE OF RAW MATERIALS AND/OR LABOR, WHICH MAKE UP ALL OR A SUBSTANTIAL PART OF A PRODUCT. ADJUSTMENTS ARE TO BE BASED UPON AN ACTUAL DOLLAR FIGURE, NOT A PERCENTAGE. ALL PRICE ADJUSTMENT REQUESTS MUST BE SUBSTANTIATED IN A MANNER ACCEPTABLE TO THE DIRECTOR PURCHASING, E.G. GOVERNMENTAL BENCH MARKS, GENERAL MARKET INCREASE, PUBLISHED PRICE LISTS. SUCH REQUESTS FOR AND INCREASE SHOULD BE RECEIVED IN WRITING BY THE DIRECTOR OF PURCHASING AT LEAST 30 DAYS IN ADVANCE OF THE EFFECTIVE DATE OF THE INCREASE. ANY TIME THE VENDOR REQUESTS A PRICE ADJUSTMENT, THE PURCHASING DIVISION MAY EITHER ACCEPT THE PRICE ADJUSTMENT AND AMEND THE CONTRACT ACCORDINGLY OR REJECT THE ADJUSTMENT IN ITS ENTIRETY AND CANCEL THE CONTRACT.						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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# Request for Quotation

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 RON PRICE  
 304-558-8492

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HEALTH AND HUMAN RESOURCES  
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<p>PREFERRED TERMS:            IT IS PREFERRED THAT THE PRICES ON THIS CONTRACT ARE FIRM FOR LIFE OF THE CONTRACT, AS INDICATED IN THE LIFE OF CONTRACT CLAUSE CONTAINED HEREIN, NOT TO EXCEED ONE (1) YEAR.</p> <p>VENDOR PREFERENCE CERTIFICATE</p> <p>CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR PREFERENCE IN ACCORDANCE WITH WEST VIRGINIA CODE, 5A-3-37 (DOES NOT APPLY TO CONSTRUCTION CONTRACTS).</p> <p>A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>( ) BIDDER IS AN INDIVIDUAL RESIDENT VENDOR AND HAS RESIDED CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>( ) BIDDER IS A PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR AND HAS MAINTAINED ITS HEAD-QUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR 80% OF THE OWNERSHIP INTEREST OF BIDDER IS HELD BY ANOTHER INDIVIDUAL, PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR WHO HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>( ) BIDDER IS A CORPORATION NONRESIDENT VENDOR WHICH HAS AN AFFILIATE OR SUBSIDIARY WHICH EMPLOYS A MINIMUM OF ONE HUNDRED STATE RESIDENTS AND WHICH</p>						

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SIGNATURE \_\_\_\_\_ TELEPHONE \_\_\_\_\_ DATE \_\_\_\_\_

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**Quotation**

BPH60353

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ADDRESS CORRESPONDENCE TO ATTENTION OF  
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06/08/2006	01:30PM

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<p>HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA CONTINUOUSLY FOR THE FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>( ) BIDDER IS A RESIDENT VENDOR WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES WORKING ON THE PROJECT BEING BID ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID;</p> <p>OR</p> <p>( ) BIDDER IS A NONRESIDENT VENDOR EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS OR IS A NONRESIDENT VENDOR WITH AN AFFILIATE OR SUBSIDIARY WHICH MAINTAINS ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES OR BIDDERS' AFFILIATE'S OR SUBSIDIARY'S EMPLOYEES ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX &amp; REVENUE DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS FAILED TO CONTINUE TO MEET THE REQUIREMENTS FOR SUCH PREFERENCE, THE SECRETARY MAY ORDER THE DIRECTOR OF PURCHASING TO: (A) RESCIND THE CONTRACT OR PURCHASE ORDER ISSUED; OR (B) ASSESS A PENALTY AGAINST SUCH BIDDER IN AN AMOUNT NOT TO EXCEED 5% OF THE BID AMOUNT AND THAT SUCH PENALTY WILL BE PAID TO THE CONTRACTING AGENCY OR DEDUCTED FROM ANY UNPAID BALANCE ON THE</p>						

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<p>CONTRACT OR PURCHASE ORDER.</p> <p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND REVENUE TO DISCLOSE TO THE DIRECTOR OF PURCHASING APPROPRIATE INFORMATION VERIFYING THAT BIDDER HAS PAID THE REQUIRED BUSINESS TAXES, PROVIDED THAT SUCH INFORMATION DOES NOT CONTAIN THE AMOUNTS OF TAXES PAID NOR ANY OTHER INFORMATION DEEMED BY THE TAX COMMISSIONER TO BE CONFIDENTIAL.</p> <p>UNDER PENALTY OF LAW FOR FALSE SWEARING (WEST VIRGINIA CODE 61-5-3), BIDDER HEREBY CERTIFIES THAT THIS CERTIFICATE IS TRUE AND ACCURATE IN ALL RESPECTS; AND THAT IF A CONTRACT IS ISSUED TO BIDDER AND IF ANYTHING CONTAINED WITHIN THIS CERTIFICATE CHANGES DURING THE TERM OF THE CONTRACT, BIDDER WILL NOTIFY THE PURCHASING DIVISION IN WRITING IMMEDIATELY.</p> <p>BIDDER: <i>Radio Communications Serv, Inc.</i></p> <p>DATE: <i>6/17/06</i></p> <p>SIGNED: <i>[Signature]</i></p> <p>TITLE: <i>Operations Admin.</i></p> <p>* CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU ARE ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B".</p>						

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Department of Administration  
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 2019 Washington Street East  
 Post Office Box 50130  
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**Quotation**

BPH60353

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ADDRESS CORRESPONDENCE TO ATTENTION OF  
 RDN PRICE  
 304-558-0992

VENDOR

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OPENING DATE 06/08/2006 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>(REV. 12/00)</p> <p style="text-align: center;">NOTICE</p> <p>AN ORIGINAL, SIGNED BID MUST BE SUBMITTED TO:</p> <p style="margin-left: 40px;">DEPARTMENT OF ADMINISTRATION            PURCHASING DIVISION            BUILDING 15            2019 WASHINGTON STREET, EAST            CHARLESTON, WV 25305-0130</p> <p>THE BID MUST CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPES OR THE BIDS MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: 41</p> <p>RFQ. NO.: BPH60349</p> <p>BID OPENING DATE AND TIME</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:            -----                              304-697-6240            -----</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY):            -----                              Tim Rahn            -----</p>						

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The West Virginia Department of Health and Human Resources (DHHR), Bureau for Public Health (BPH), State Trauma and Emergency Care System (STECS) desires to establish an open-end contract for the purchase of various communications towers for the Statewide Medical Command communications and interoperable radio system as well as all state agencies and political subdivisions.

### SPECIFICATIONS

#### 1.0 General

- 1.1 Successful bidder shall pre-pay freight costs for delivery to Clarksburg, WV and/or Charleston, WV. Vendor will then be paid the actual freight costs upon submission of original freight invoice to STECS.
- 1.2 Quote shall include all applicable catalog items and accessories not specifically included with a listed tower at a fixed discounted price. Quote shall include sample of actual prices with discount applied to the following sample items:

Estimated Annual Order*	Description
15	Six (6) foot standard side arms.
15	Six (6) foot tapered side arms.
5	Safety climb device.
10	300 mm coated red beacon
10	Red side light assemble that will accept a 117 watt bulb.
6	Tower section with 12 inch face and 10 feet long (capable of telescoping into adjoining sections.)
6	Tower section with 18 inch face and 10 feet long (capable of telescoping into adjoining sections.)
25	¼ inch eye to eye turnbuckles
25	3/8 inch eye to eye turnbuckles
25	½ inch eye to eye turnbuckles
25	¼ inch eye to jaw turnbuckles
25	3/8 inch eye to jaw turnbuckles
25	½ inch eye to jaw turnbuckles

\*Above numbers are sample estimates only. The actual number ordered may be more or less.

NOTE: Bid MUST include a percent discount to be applied to all catalog items and applied to the sample items listed above.

- 1.3 Quote shall be valid for a period of one year from date of opening with option to renew for two (2) additional one year periods.
- 1.4 Quote shall include samples of pertinent warranties. Bidder must warranty product for a minimum of one (1) year.
- 1.5 Delivery must be guaranteed no greater than eight (8) weeks after each tower order date.
- 1.6 All towers must meet industry standards. (i.e. UL listing, FCC, IEEE)
- 1.7 Manufacturer must have manufactured like structures of proven quality for a minimum of five (5) years, and provide at least three (3) references of actual projects completed of like structures.

## 2.0 Detail Specifications for Communications Towers

This request is for pricing for materials, parts and delivery necessary for the construction of various communications towers. It does not include installation of the tower. Bidder shall include costs based on the sample number of towers listed in the chart below. Tower sizes, types, and sample number requested are as follows:

Estimated Annual Order*	Self Supporting
1	140' self supporting
1	160' self supporting
2	180' self supporting
1	200' self supporting
1	220' self supporting
2	240' self supporting
1	260' self supporting
1	280' self supporting
2	300' self supporting
2	320' self supporting
2	340' self supporting
	<b>Guyed</b>
1	160' guyed
1	200' guyed
1	240' guyed
1	280' guyed
1	320' guyed
1	360' guyed
1	400' guyed
1	440' guyed
4	480' guyed

\*Above numbers are sample estimates only. The actual number ordered may be more or less.

- 2.1 Towers will be constructed on an equilateral triangle pattern with steel legs and cross bracing members of either bolted or welded construction. The triangular size shall be sufficient to meet EIA standards as per the International Building Code acceptance. All tower sections and accessories will be hot dipped galvanized after fabrication according to ASTM specification A-123, which gives a minimum of 2 oz. of zinc per square foot of surface.
- 2.2 Towers will be designed for a wind load of 90 mph - 3 second gusts, with 1/2" radial ice per the EIA Standards and the International Building Code acceptance. Wind and ice shall be considered on the tower, antenna, guys, and all appurtenances. The manufacturer should consider that the structures are for essential facilities. Importance factors should be adjusted accordingly.
- 2.3 Towers shall be able to accommodate torque arms at appropriate locations to support 6 GHZ microwave dishes and directional antenna. (All guyed towers shall have minimum face width of 40 inches or greater, measured to the outside of the tower legs on the face)
- 2.4 Towers shall have a lightning rod assembly designed to be mounted higher than the uppermost antenna.
- 2.5 Towers will have a climbing leg or step pegs designed to meet current EIA standards per the International Building Code acceptance.
- 2.6 Towers shall be designed for waveguide ladders on three (3) faces. Waveguide ladders shall accommodate snap-in and bolt-on style hangers with a minimum of 12 holes. Guyed towers shall have waveguide brace brackets
- 2.7 Towers shall be designed and fabricated according to the EIA standards per the International Building Code acceptance. All tower design and engineering data must be submitted to the purchaser prior to delivery of tower.
- 2.8 All tower members shall be designed to allow easy inspection of all surfaces for possible corrosion.
- 2.9 The shaft of guyed towers shall be supported on a point mount at the center of the foundation in a manner to prevent transmission of binding forces between tower and concrete base.
- 2.10 Structural steel shall comply with the latest specifications for structural steel for bridges and buildings.
- 2.11 All welding shall be x-ray quality and conform to latest AISC and AWS standards.
- 2.12 Any members that are received buckled or bent must be replaced.

- 2.13 Nuts and bolts shall conform to the latest ASTM standards. Split ring lock nuts shall be supplied to secure all nuts.
- 2.14 All guy strands shall be extra high strength and conform to latest ASTM specifications, with class A zinc coating.
- 2.15 Tower guys shall be provided with a turnbuckle safety at each anchor point.
- 2.16 Tower guys shall each be provided as one continuous strand from anchor point to the tower.
- 2.17 Towers shall have grounding plates attached to each leg at tapered base section to accommodate thermo weld connection of ground wires.
- 2.18 Tower will be supplied with tower lighting package as appropriate to its height.
- 2.19 Tower lighting package shall be a dual lighting system. Components shall consist of white strobe light(s) to be operational during the daytime and red light(s) to be operational at night.
- 2.20 Tower lighting package shall include necessary control equipment to monitor tower lights.
- 2.21 Ice shields shall be provided for center beacons where applicable.
- 2.22 Tower package shall include a 12 foot sector boom to be mounted at the top of the structure with 12 antenna locations on the boom. In addition, the tower shall be designed to accommodate up to ten (10) UHF/VHF antenna on 6 foot side arms distributed equally over the tower height down to a height of 50 feet. Antennas will be up to 18 ft. in length.

2.23 Each tower shall be designed to accommodate additional attachments as per the following table:

Tower Loading Requirements			
140 self	4-8' HP 6 GHZ dishes - 80' to 130'	4-6' HP 6 GHZ dishes - 80' to 130'	12' sector boom at top
160 self	4-8' HP 6 GHZ dishes - 80' to 150'	4-6' HP 6 GHZ dishes - 80' to 150'	12' sector boom at top
180 self	4-8' HP 6 GHZ dishes - 80' to 170'	4-6' HP 6 GHZ dishes - 80' to 170'	12' sector boom at top
200 self	4-8' HP 6 GHZ dishes - 80' to 190'	4-6' HP 6 GHZ dishes - 80' to 190'	12' sector boom at top
220 self	4-8' HP 6 GHZ dishes - 80' to 210'	4-6' HP 6 GHZ dishes - 80' to 210'	12' sector boom at top
240 self	4-8' HP 6 GHZ dishes - 80' to 230'	4-6' HP 6 GHZ dishes - 80' to 230'	12' sector boom at top
260 self	4-8' HP 6 GHZ dishes - 80' to 250'	4-6' HP 6 GHZ dishes - 80' to 250'	12' sector boom at top
280 self	4-8' HP 6 GHZ dishes - 80' to 270'	4-6' HP 6 GHZ dishes - 80' to 270'	12' sector boom at top
300 self	4-8' HP 6 GHZ dishes - 80' to 290'	4-6' HP 6 GHZ dishes - 80' to 290'	12' sector boom at top
320 self	4-8' HP 6 GHZ dishes - 80' to 310'	4-6' HP 6 GHZ dishes - 80' to 310'	12' sector boom at top
340 self	4-8' HP 6 GHZ dishes - 80' to 330'	4-6' HP 6 GHZ dishes - 80' to 330'	12' sector boom at top
160 guyed	4-8' HP 6 GHZ dishes - 80' to 150'	4-6' HP 6 GHZ dishes - 80' to 150'	12' sector boom at top
200 guyed	4-8' HP 6 GHZ dishes - 80' to 190'	4-6' HP 6 GHZ dishes - 80' to 190'	12' sector boom at top
240 guyed	4-8' HP 6 GHZ dishes - 80' to 230'	4-6' HP 6 GHZ dishes - 80' to 230'	12' sector boom at top
280 guyed	4-8' HP 6 GHZ dishes - 80' to 270'	4-6' HP 6 GHZ dishes - 80' to 270'	12' sector boom at top
320 guyed	4-8' HP 6 GHZ dishes - 80' to 310'	4-6' HP 6 GHZ dishes - 80' to 310'	12' sector boom at top
360 guyed	4-8' HP 6 GHZ dishes - 80' to 350'	4-6' HP 6 GHZ dishes - 80' to 350'	12' sector boom at top
400 guyed	4-8' HP 6 GHZ dishes - 80' to 390'	4-6' HP 6 GHZ dishes - 80' to 390'	12' sector boom at top
440 guyed	4-8' HP 6 GHZ dishes - 80' to 430'	4-6' HP 6 GHZ dishes - 80' to 430'	12' sector boom at top
480 guyed	4-8' HP 6 GHZ dishes - 80' to 470'	4-6' HP 6 GHZ dishes - 80' to 470'	12' sector boom at top

The above loading should also include ice shields over dishes. Towers should also be designed for multiple cellular carriers in lieu of same locations where dishes are located. (Microwave Dishes with ray domes are back to back at four locations equally distributed over the mounting height range specified in the above chart.)

2.24 The following drawings shall be furnished by the successful vendor, for each tower at the time of ordering:

- Four (4) copies of tower design and calculation sheets
- Four (4) copies of foundation plans
- Four (4) copies of guying specifications
- Four (4) copies of final erection drawings

Samples of the above documents should be provided with this quote.

2.25 All tower drawings shall have a West Virginia PE stamp or seal.

2.26 All tower foundation drawings shall have a West Virginia PE stamp or seal.

2.27 Each structural member shall be identified by a part number and any parts with the same part number must be interchangeable. This will result in tower sections capable of being installed in any 120 degree rotation without changing the tower structurally. Match marking requirements of tower sections by the manufacturer, for proper assembly, shall not be acceptable.

- 2.28 Tubular leg members shall maintain an open interior diameter through the flange plate at least as large as the inside diameter of the pipe and electrically welded externally and internally.
- 2.29 Flanged leg connections shall utilize a minimum of four bolts per leg. Tower leg members shall utilize a 50 KSI minimum yield strength.
- 2.30 The tower manufacturer shall maintain the highest quality steel manufacturing standards for production. Only AWS certified welders shall be employed for tower fabrication. A fully qualified quality control department shall be employed with a quality control manual maintained to establish minimum acceptable fabrication standards, procedures, and requirements for documentation.
- 2.31 All Self Supporting towers indicated should assume normal soil and level ground.
- 2.32 All Guy Towers should assume normal soil, with 50 ft. drop in elevation from tower base to its farthest anchor point.

## EVALUATION SHEET - TOWERS

Estimated Annual Order	Self Supporting	Unit Cost	Total Cost
1	140' self supporting	23,840.00	23,840.00
1	160' self supporting	27,940.00	27,940.00
2	180' self supporting	33,490.00	66,980.00
1	200' self supporting	38,360.00	38,360.00
1	220' self supporting	45,825.00	45,825.00
2	240' self supporting	53,110.00	106,220.00
1	260' self supporting	61,500.00	61,500.00
1	280' self supporting	71,710.00	71,710.00
2	300' self supporting	81,740.00	163,480.00
2	320' self supporting	92,190.00	184,380.00
2	340' self supporting	102,145.00	204,290.00
	<b>Guyed</b>		
1	160' guyed	24,239.00	24,239.00
1	200' guyed	29,150.00	29,150.00
1	240' guyed	31,560.00	31,560.00
1	280' guyed	41,460.00	41,460.00
1	320' guyed	48,660.00	48,660.00
1	360' guyed	52,493.00	52,493.00
1	400' guyed	61,900.00	61,900.00
1	440' guyed	67,930.00	67,930.00
4	480' guyed	74,175.00	296,700.00
	<b>GRAND TOTAL</b>		<b>\$1,669,317.00</b>

\*Above numbers are sample estimates only. The actual number ordered may be more or less

\* See attached information for clarifications on items included.

## EVALUATION SHEET - TOWER ACCESSORIES

Fixed discount price for catalog accessories: 40 %

Quote of above discount applied to the following sample items:

Estimated Annual Order*	Description	Unit Cost	Total Cost Year Cost
15	Six (6) foot standard side arms.	198.00	2,970.00
15	Six (6) foot tapered side arms.	198.00	2,970.00
5	Safety climb device.	625.80	3,129.00
10	300 mm coated red beacon	600.00	6,000.00
10	Red side light assemble that will accept a 117 watt bulb.	103.20	1,032.00
6	Tower section with 12 inch face and 10 feet long (capable of telescoping into adjoining sections.)	65.40	392.40
6	Tower section with 18 inch face and 10 feet long (capable of telescoping into adjoining sections.)	150.60	903.60
25	1/4 inch eye to eye turnbuckles	.78	19.50
25	3/8 inch eye to eye turnbuckles	7.20	180.00
25	1/2 inch eye to eye turnbuckles	15.60	390.00
25	1/4 inch eye to jaw turnbuckles	NA	NA
25	3/8 inch eye to jaw turnbuckles	10.80	270.00
25	1/2 inch eye to jaw turnbuckles	17.70	442.50
	<b>GRAND TOTAL</b>		<b>18,699.00</b>

\*Above numbers are sample estimates only. The actual number ordered may be more or less.

\* See attached. (Priority spreadsheet)  
 \* See attached Commercial Price list for catalog items.  
 Take 40% discount from this for your cost.



# A F F I D A V I T

## West Virginia Code §5A-3-10a states:

No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate.

## DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions.

"Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

## EXCEPTION:

The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

## LICENSING:

The vendor must be licensed in accordance with any and all state requirements to do business with the state of West Virginia.

## CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit [www.state.wv.us/admin/purchase/privacy](http://www.state.wv.us/admin/purchase/privacy) for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name: Radian Communications Services, Inc.

Authorized Signature:  Date: 6/7/06

## NOTES AND CLARIFICATIONS

These may be duplicated from individual proposals.

1. Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.
2. Estimated freight is to destination point of Charleston, WV from FOB Peoria, IL.
3. See individual proposals for items included in each tower price. Each price includes WV sealed design and foundation drawings.
4. Lights have been optioned on each proposal.
5. All guy tower designs assume a 50 ft. anchor drop.



Radian  
Communication  
Services

6718 West Pinak Road  
Pearis, IL 61604  
Telephone + 1 309 697 4400  
Facsimile + 1 309 697 5612  
[www.radiantcorp.com](http://www.radiantcorp.com)

**Radian Communication Services, Inc. references of actual projects**

Bechtel Telecommunications  
Cingular Wireless Project  
Skip Irwin  
Tele: 301-228-6986  
Fax: 301-228-6027

Trillion Partners  
Broadband for School Districts Project  
9208 Waterford Centre Blvd  
Suite 150  
Austin, TX 78758  
Ken Proud  
Tele: 512-334-4105

Quality Tower Service  
Texas DOT Project  
1630 Elmview Drive  
Houston, TX 77080  
George Jackson  
Tele: 713-722-8290  
Fax: 713-722-8744

PROJECT NO. 26-058-0352  
 WORKS: ...  
 SHEET: ...

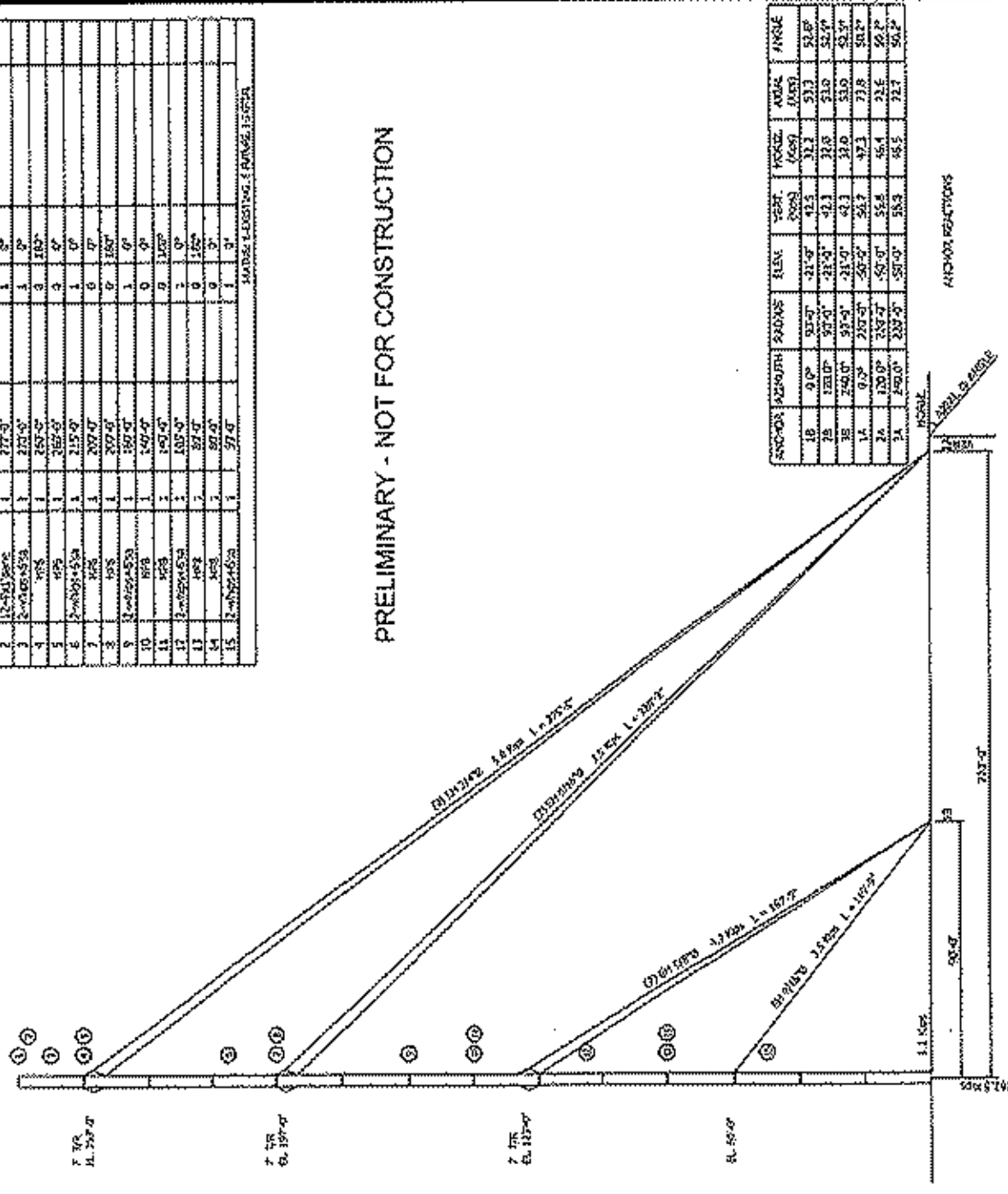
**RADIAN**  
 PUBLIC ENGINEERING  
 11850 WILSON AVENUE  
 SUITE 100  
 BOSTON, MA 02124  
 TEL: (617) 335-1200  
 FAX: (617) 335-1201  
 www.radianpe.com

DATE: 11/18/2020  
 DRAWN BY: ...  
 CHECKED BY: ...  
 PROJECT NO: ...  
 SHEET NO: ...

ANTENNA LEADING CABLE

POS	DESCRIPTION	QTY	ELEVATION	IS LVL	QTY	AMOUNT	COMMENTS	STATUS
1	CONC. BRACKETS	1	281'-0"		1	2'		
2	12-3/4" Ø PC	1	277'-3"		1	2'		
3	2-Ø 1/2" Ø PC	1	273'-0"		1	2'		
4	Ø 1/2" Ø PC	1	268'-0"		1	2'		
5	Ø 1/2" Ø PC	1	265'-0"		1	2'		
6	2-Ø 1/2" Ø PC	1	261'-0"		1	2'		
7	Ø 1/2" Ø PC	1	257'-0"		1	2'		
8	Ø 1/2" Ø PC	1	253'-0"		1	2'		
9	Ø 1/2" Ø PC	1	249'-0"		1	2'		
10	Ø 1/2" Ø PC	1	245'-0"		1	2'		
11	Ø 1/2" Ø PC	1	241'-0"		1	2'		
12	Ø 1/2" Ø PC	1	237'-0"		1	2'		
13	Ø 1/2" Ø PC	1	233'-0"		1	2'		
14	Ø 1/2" Ø PC	1	229'-0"		1	2'		
15	Ø 1/2" Ø PC	1	225'-0"		1	2'		

PRELIMINARY - NOT FOR CONSTRUCTION



ANCHOR	HORIZONTAL	VERTICAL	LENGTH	ELEV.	YBR.	YBR.	YBR.	YBR.	YBR.
18	0'-0"	21'-0"	26.17'	281'-0"	41.5	32.3	51.3	51.3	51.3
28	28'-0"	21'-0"	33.60'	277'-3"	42.3	33.0	51.0	51.0	51.0
24	24'-0"	21'-0"	30.00'	273'-0"	43.3	33.0	51.0	51.0	51.0
14	14'-0"	21'-0"	22.41'	268'-0"	52.7	47.3	71.8	71.8	71.8
24	24'-0"	21'-0"	30.00'	265'-0"	55.8	45.4	73.6	73.6	73.6
14	14'-0"	21'-0"	22.41'	261'-0"	58.9	45.5	73.7	73.7	73.7

DESIGN SPECIFICATION: SEA-22-6  
 BASIC WIND SPEED: 80 mph  
 PROBABLE WIND: 0.15 ft/s

SECTION	ITEM NO.	DESCRIPTION	QTY	UNIT	AMOUNT
CABLES	1	Ø 1/2" Ø PC	1	2'	2'
	2	Ø 1/2" Ø PC	1	2'	2'
	3	Ø 1/2" Ø PC	1	2'	2'
	4	Ø 1/2" Ø PC	1	2'	2'
	5	Ø 1/2" Ø PC	1	2'	2'
	6	Ø 1/2" Ø PC	1	2'	2'
	7	Ø 1/2" Ø PC	1	2'	2'
	8	Ø 1/2" Ø PC	1	2'	2'
	9	Ø 1/2" Ø PC	1	2'	2'
	10	Ø 1/2" Ø PC	1	2'	2'
ANCHORS	1	Ø 1/2" Ø PC	1	2'	2'
	2	Ø 1/2" Ø PC	1	2'	2'
	3	Ø 1/2" Ø PC	1	2'	2'
	4	Ø 1/2" Ø PC	1	2'	2'
	5	Ø 1/2" Ø PC	1	2'	2'
	6	Ø 1/2" Ø PC	1	2'	2'

<b>RADIAN</b>	NAME ROBB	DATE Jun 1 2006	FILE NO. 06-060-0583
CUSTOMER STATE OF WEST VIRGINIA			PAGE 0
PROJECT 200' IS TOWER			
SITE Various			

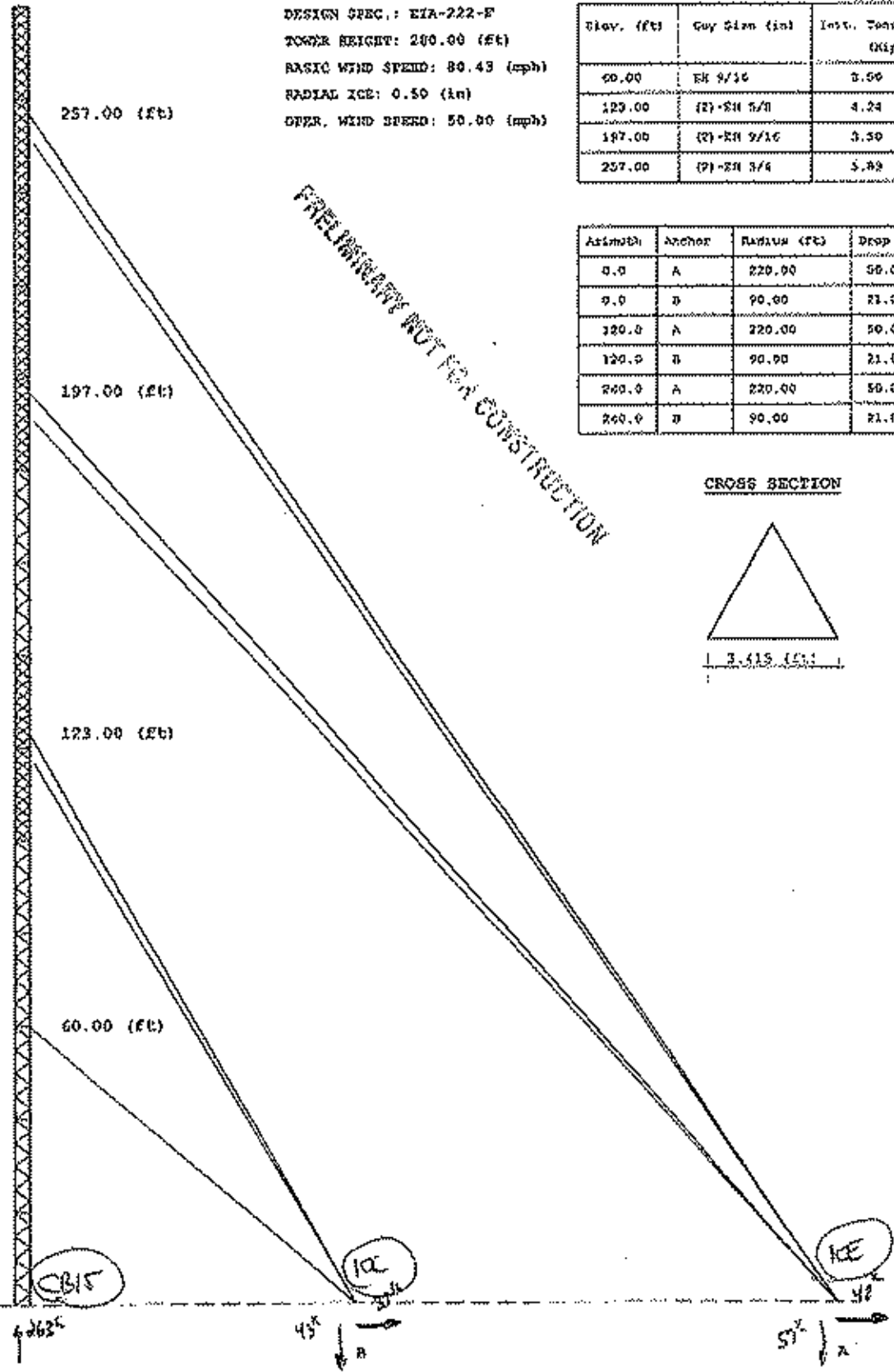
DESIGN SPEC.: EIA-222-F  
 TOWER HEIGHT: 200.00 (ft)  
 BASIC WIND SPEED: 80.43 (mph)  
 RADIAL ICE: 0.50 (in)  
 OPER. WIND SPEED: 50.00 (mph)

Elev. (ft)	Guy Size (in)	Inst. Tension (kips)
60.00	EM 9/16	3.00
123.00	(2)-EM 5/8	4.24
197.00	(2)-EM 9/16	3.50
257.00	(2)-EM 3/4	5.89

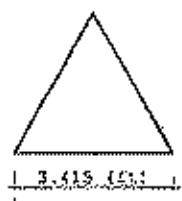
Asimth	Anchor	Radius (ft)	Drop (ft)
0.0	A	220.00	50.00
9.0	B	90.00	21.00
120.0	A	220.00	50.00
129.0	B	90.00	21.00
240.0	A	220.00	50.00
249.0	B	90.00	21.00

PRELIMINARY NOT FOR CONSTRUCTION

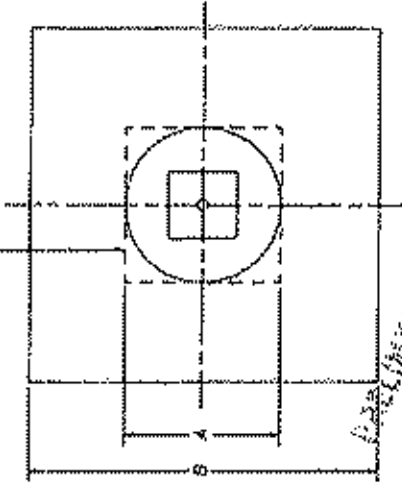
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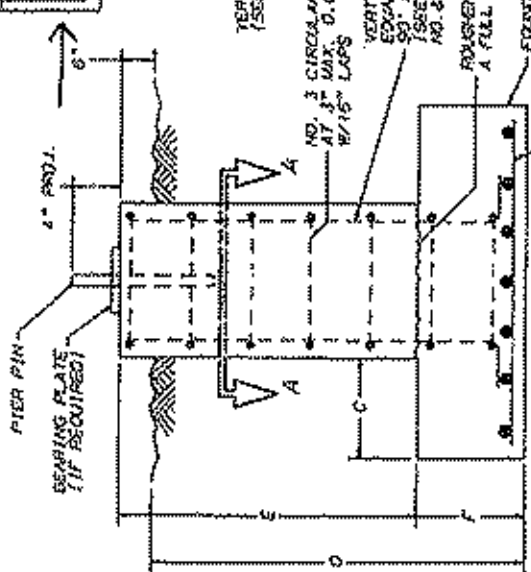
CROSS SECTION



ALTERNATE SQUARE PIER  
(SEE NOTE 2)



PLAN VIEW  
FOR CONSTRUCTION

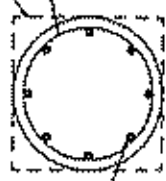


ELEVATION VIEW

CONCRETE BASE SCHEDULE

CB NO.	TOWER BASE REACTION (LBS)	DIMENSIONS						BEARING PLATE	CONC. (CU. YDS. PER PIER)	VERTICAL BARS (NO. & SIZE)	HORIZ. BARS IN PAD (NO. & SIZE)
		A	B	C	D	E	F				
1	19,000	2'-6"	2'-6"	0	4'-0"	0	0	SP6	0.60	8 NO. 7	NONE
2	26,000	3'-0"	3'-0"	0	4'-0"	0	0	SP6	1.20	10 NO. 7	NONE
3	36,000	3'-6"	3'-6"	0	4'-0"	0	0	SP6	1.60	12 NO. 7	NONE
4	46,000	4'-0"	4'-0"	0	4'-0"	0	0	SP6	2.10	12 NO. 8	NONE
5	59,000	2'-0"	4'-0"	1'-0"	4'-0"	3'-5"	1'-5"	SP6	1.10	8 NO. 8	5 NO. 5
6	74,000	2'-0"	4'-6"	1'-3"	4'-0"	3'-5"	1'-3"	SP6	1.30	8 NO. 8	6 NO. 5
7	90,000	2'-0"	5'-0"	1'-6"	4'-6"	3'-9"	1'-3"	SP10	1.60	8 NO. 8	6 NO. 5
8	103,000	2'-0"	5'-6"	1'-9"	4'-6"	3'-5"	1'-3"	SP10	1.80	8 NO. 8	7 NO. 5
9	130,000	2'-0"	6'-0"	2'-0"	4'-8"	3'-6"	1'-6"	SP10	2.40	8 NO. 8	7 NO. 6
10	150,000	2'-0"	6'-6"	2'-3"	4'-6"	3'-6"	1'-6"	SP10	2.80	8 NO. 8	8 NO. 5
11	173,000	2'-6"	7'-0"	2'-3"	5'-0"	3'-9"	1'-9"	SP15	3.50	8 NO. 7	8 NO. 5
12	198,000	2'-6"	7'-6"	2'-6"	5'-0"	3'-9"	1'-9"	SP15	4.30	8 NO. 7	8 NO. 6
13	224,000	2'-6"	8'-0"	2'-9"	5'-0"	3'-9"	1'-9"	SP15	4.80	8 NO. 7	9 NO. 6
14	251,000	3'-0"	8'-6"	2'-9"	5'-0"	3'-5"	2'-0"	SP15	5.30	12 NO. 7	9 NO. 7
15	279,000	3'-0"	9'-0"	3'-0"	5'-0"	3'-6"	2'-0"	SP15	6.00	12 NO. 7	10 NO. 7

ALTERNATE SQUARE PIER



SECTION A-A

VERTICAL BARS EQUALLY SPACED  
(SEE CHART FOR NO. & SIZE)

NO. 3 CIRCULAR TIES  
AT 3\"/>

VERTICAL RE-BARS  
EQUALLY SPACED W/  
50\"/>

ROUGHEN CONSTRUCTION JOINT TO  
A FULL AMPLITUDE OF 1/4"

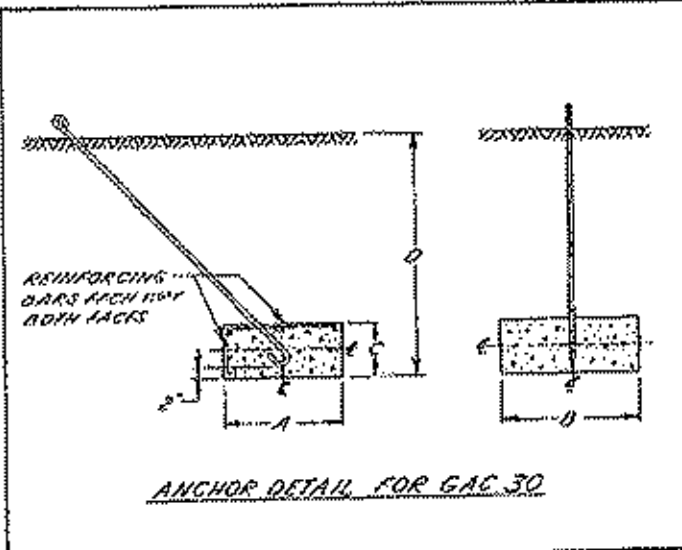
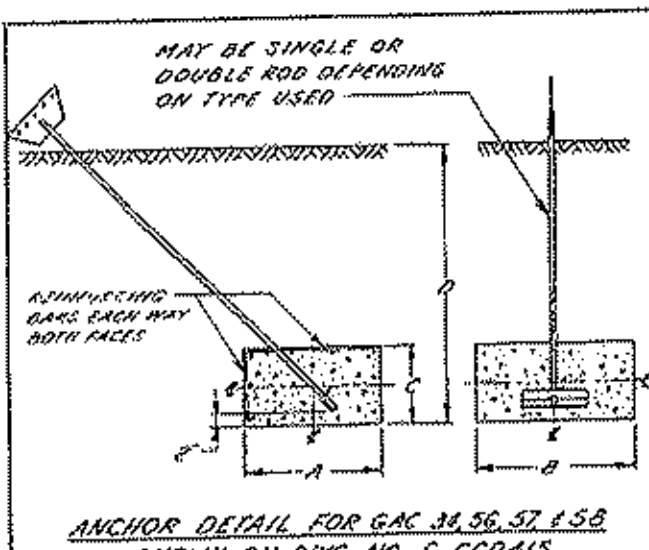
FOUNDATION PAD

HORIZONTAL REINFORCING STEEL  
EQUALLY SPACED EACH WAY  
(SEE CHART FOR NO. & SIZE)

NOTES:

- SEE TOWER ASSEMBLY DRAWINGS FOR FOUNDATION LAYOUT AND CURTAIN WALLS TO BEARING PLATE & PIER PIN. SEE DRAWING NUMBER 8861200 FOR GENERAL FOUNDATION NOTES. SEE MAIN 2-10 50' OR 3'-0" DIA. ROUND PIER WHEN CROSS-SECTION IS USED.
- VERTICAL REINFORCING STEEL SHALL BE REPLACED WITH SMOOTH BARS WHEN NO PAD IS REQUIRED.
- SMOOTH BARS IN CHART REFER ONLY TO THE BARS IN THE FOUNDATION PAD.

DATE	1-1-72	SCALE	AS SHOWN
BY	J. S. ROHN	CHECKED	J. S. ROHN
APPROVED	J. S. ROHN		
PROJECT	BASE PIER SCHEDULE FOR NORMAL SOIL PSR ANSI/TIA/SIA-222-F		
DRAWING NO.	30551RK	REV. NO.	CE10921
SHEET NO.	7	TOTAL SHEETS	7



NOTE: DUE TO VARIABLES INVOLVED IN HOOT AND OTHER INSTALLATIONS, IT SHALL BE THE CUSTOMER'S OR INSTALLER'S RESPONSIBILITY TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER & ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.

FOR REQUIRED MATERIAL SPECIFICATIONS, INSTALLATION NOTES AND TOLERANCES SEE DRAWING NUMBER 884300.

General Notes

1. MINIMUM 1/2" DIAMETER REINFORCING BARS IN ALL ANCHORS WITH MAXIMUM SPACING OF 12" EXCEPT NO. 10 BLOCK MAXIMUM SPACING 16"

CONCRETE ANCHOR DATA									
DEPTH, D (FT.)	ROD NO.	BLOCK NO.	ANCHOR DIMENSIONS (FT.)			WEIGHT (LBS)	CONCRETE (CU YDS)	UPLIFT * CAPACITY (LBS)	LATERAL CAPACITY (LBS)
			A	B	C				
3	GAC 30	3a	1.5	1.5	1.5	310	.08	900	1,500
		3b	2	2	1	560	.15	1,320	2,000
		3c	2.5	2.5	1	1,080	.23	1,810	2,500
		3d	3	3	1	1,280	.33	2,535	3,000
		3e	3	4	1	1,680	.44	3,080	4,000
4	GAC 30 OR GAC 34	4a	3	3	1.5	1,890	.54	3,490	5,830
		4b	3	4	1.5	2,520	.67	4,560	7,800
		4c	3	5	1.5	3,150	.84	4,905	9,700
		4d	3	6	1.5	3,780	1.00	6,030	11,700
		4e	4	6	1.5	5,050	1.33	7,660	11,700
6	GAC 56	6a	3	3	1.5	2,520	.67	10,035	12,600
		6b	3	3	1.5	3,150	.84	11,600	15,750
		6c	3	6	1.5	3,780	1.00	13,150	18,900
		6d	3	6	1.5	5,050	1.33	15,850	19,950
		6e	3	6	1.5	5,050	1.33	22,150	21,750
8	GAC 57	8a	3	3	1.5	3,150	.84	24,700	26,100
		8b	3	6	1.5	3,780	1.00	26,500	26,100
		8c	4	6	1.5	5,050	1.33	33,360	33,600
		8d	6	6	2.0	10,800	2.67	37,450	43,200
		10a	3	6	2.0	5,040	1.33	42,700	43,200
10	GAC 58	10b	4	6	2.0	6,720	1.78	46,900	50,800
		10c	4	7	2.0	7,840	2.07	46,900	50,800
		10d	5	7	2.0	9,800	2.59	52,450	50,400
		10e	5	9	2.0	12,600	3.33	61,700	68,500

\* INCLUDES SAFETY FACTOR OF 2

\* NORMAL SOIL IS A COHESIVE TYPE SOIL WITH A HORIZONTAL BEARING CAPACITY OF 400 POUNDS PER SQUARE FOOT PER LINEAL FOOT OF DEPTH. ROCK, NON-COHESIVE SOILS, OR SATURATED OR SUBMERGED SOILS ARE NOT TO BE CONSIDERED AS NORMAL.

**ROHN MANUFACTURING**

STANDARD CONCRETE ANCHORS

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DATE: 4-73


DRAWN BY: J. G. 112

CHECKED BY: J. G. 112

APPROVED BY: J. G. 112

DWG. NO. C 620643 R

REVISION	DESCRIPTION	DATE
1	INCREASED ROD LENGTHS	4-73
2	ROD BARY NO. GAC 30 WAS GAC 34	4-73
3	REVISION FOR PERMITS	4-73

 <b>RADIAN</b>	<b>NAME</b> ROBS	<b>DATE</b> Jun 1 2006	<b>FILE NO.</b> Q6-060-0583
	<b>CUSTOMER</b> STATE OF WEST VIRGINIA		
<b>PROJECT</b> 280' 60 TOWER			<b>PAGE</b> 01
<b>SITE</b> Various			

Section C : GUY GEOMETRY

Elevat. (ft)	Azi. (ft)	Diamet. (ft)	Height (ft)	Radius (ft)	Attach. Radius (ft)	Attach. Azi. (ft)	Initial Tension (Kips)
257.00	0.0	0.7500	-50.00	220.00	3.940	300.0	5.83
257.00	0.0	0.7500	-50.00	220.00	3.940	60.0	5.83
257.00	120.0	0.7500	-50.00	220.00	3.940	60.0	5.83
257.00	120.0	0.7500	-50.00	220.00	3.940	180.0	5.83
257.00	240.0	0.7500	-50.00	220.00	3.940	180.0	5.83
257.00	240.0	0.7500	-50.00	220.00	3.940	300.0	5.83
197.00	0.0	0.5625	-50.00	220.00	3.940	300.0	3.50
197.00	0.0	0.5625	-50.00	220.00	3.940	60.0	3.50
197.00	120.0	0.5625	-50.00	220.00	3.940	60.0	3.50
197.00	120.0	0.5625	-50.00	220.00	3.940	180.0	3.50
197.00	240.0	0.5625	-50.00	220.00	3.940	180.0	3.50
197.00	240.0	0.5625	-50.00	220.00	3.940	300.0	3.50
123.00	0.0	0.6250	-21.00	90.00	3.940	300.0	4.24
123.00	0.0	0.6250	-21.00	90.00	3.940	60.0	4.24
123.00	120.0	0.6250	-21.00	90.00	3.940	60.0	4.24
123.00	120.0	0.6250	-21.00	90.00	3.940	180.0	4.24
123.00	240.0	0.6250	-21.00	90.00	3.940	180.0	4.24
123.00	240.0	0.6250	-21.00	90.00	3.940	300.0	4.24
60.00	0.0	0.5625	-21.00	90.00	1.969	0.0	3.50
60.00	120.0	0.5625	-21.00	90.00	1.969	120.0	3.50
60.00	240.0	0.5625	-21.00	90.00	1.969	240.0	3.50

MAST RESTRAINTS AT BASE:

Mast Restraint at base Deflection - North:	Restrained
Mast Restraint at base Deflection - East:	Restrained
Mast Restraint at base Deflection - Down:	Restrained
Mast Restraint at base Rotation - North:	No Restraint
Mast Restraint at base Rotation - East:	No Restraint
Mast Restraint at base Rotation - Twist:	Restrained

PRELIMINARY NOT FOR CONSTRUCTION



 <b>RADIAN</b>	NAME ROBB	DATE Jun 1 2006	FILE NO. Q6-060-0503
CUSTOMER STATE OF WEST VIRGINIA			PAGE D1
PROJECT 280' 80 TOWER			
SITE Various			

Section D : STRUCTURE MASS DATA

Section Descript.	Legs Mass (lbs)	Bracing Mass (lbs)	Red. Mass (lbs)	Total (lbs)
New Sectio	551.54	452.58	0.00	1004.12
New Sectio	551.54	452.58	0.00	1004.12
New Sectio	551.54	228.87	0.00	780.41
New Sectio	551.54	228.87	0.00	780.41
New Sectio	551.54	228.87	0.00	780.41
New Sectio	739.74	237.15	0.00	976.90
New Sectio	739.74	237.15	0.00	976.90
New Sectio	739.74	228.87	0.00	968.61
New Sectio	739.74	228.87	0.00	968.61
New Sectio	739.74	119.93	0.00	859.67
New Sectio	739.74	237.15	0.00	976.90
New Sectio	739.74	237.15	0.00	976.90
New Sectio	739.74	119.93	0.00	859.67
New Sectio	739.74	119.93	0.00	859.67
<b>Total</b>	<b>9415.42</b>	<b>3357.90</b>	<b>0.00</b>	<b>12773.32</b>


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 <b>RADIAN</b>	<b>NAME</b> ROSS	<b>DATE</b> Jun 1 2006	<b>FILE NO.</b> Q6-060-0583
<b>CUSTOMER</b> STATE OF WEST VIRGINIA <b>PROJECT</b> 280' 80 TOWER <b>SITE</b> Various			<b>PAGE</b> 21

Section E : WIND CODE DATA to EIA-222-F

Basic Wind Speed: 80.93 (mph)  
 Ice Thickness: 0.50 (in)  
 Ice Thickness on Guys: 0.50 (in)  
 Ice Density: 56.10 (lbs/ft<sup>3</sup>)  
 Operational wind speed: 50.00 (mph)  
 Wind and Ice Reduction Factor: 0.75  
 Elev. above ground: 0.00 (ft)  
 Tower Azimuth: 0.0 (deg)  
 Value of Kz always 2.50: No  
  
 Loading Cases Considered:  
 Wind only Yes  
 Wind and Ice Yes  
 Wind only serviceability Yes  
  
 Start Wind Direction: 0.00 deg.  
 End Wind Direction: 330.00 deg.  
 Increment Wind Direction: 30.00 deg.  
  
 Member Capacity Assumptions:  
 Increase Allowable Stress: Yes


PRELIMINARY NOT FOR CONSTRUCTION

 <b>RADIAN</b>	NAME ROBB	DATE Jun 1 2006	FILE NO. 06-060-0583
CUSTOMER STATE OF WEST VIRGINIA PROJECT 280' 80 TOWER SITE Various			PAGE F1

Section F : WIND PRESSURE DISTRIBUTION DATA to EIA-222-F

Elevation (ft)	Wind Pressure (qz*Gh) (psf)
280.00	33.34
277.50	33.25
275.00	33.16
272.50	33.08
270.00	32.99
267.50	32.90
265.00	32.82
262.50	32.73
260.00	32.64
257.50	32.56
255.00	32.46
252.50	32.37
250.00	32.27
247.50	32.18
245.00	32.09
242.50	31.99
240.00	31.90
237.50	31.80
235.00	31.71
232.50	31.61
230.00	31.51
227.50	31.42
225.00	31.32
222.50	31.22
220.00	31.12
217.50	31.01
215.00	30.91
212.50	30.81
210.00	30.70
207.50	30.60
205.00	30.49
202.50	30.39
200.00	30.28
197.50	30.17
195.00	30.06
192.50	29.95
190.00	29.84
187.50	29.73
185.00	29.61
182.50	29.50
180.00	29.38
177.50	29.26
175.00	29.15
172.50	29.03
170.00	28.91
167.50	28.78
165.00	28.66
162.50	28.54
160.00	28.41
157.50	28.28
155.00	28.15
152.50	28.02
150.00	27.89
147.50	27.75
145.00	27.62
142.50	27.48
140.00	27.35
137.50	27.21
135.00	27.06
132.50	26.92
130.00	26.77
127.50	26.63
125.00	26.47
122.50	26.32
120.00	26.17
117.50	26.01


PRELIMINARY NOT FOR CONSTRUCTION

 <b>RADIAN</b>	NAME RONS	DATE Jun 3 2006	FILE NO. 06-060-0503
CUSTOMER STATE OF WEST VIRGINIA			PAGE #2
PROJECT 280' 60 TOWER			
SITE Various			

Section F : WIND PRESSURE DISTRIBUTION DATA to EIA-222-F (cont.)

Elevation (ft)	Wind Pressure ( $q_z$ Gh) (psf)
115.00	25.85
112.50	25.69
110.00	25.53
107.50	25.36
105.00	25.19
102.50	25.02
100.00	24.84
97.50	24.66
95.00	24.48
92.50	24.29
90.00	24.10
87.50	23.91
85.00	23.71
82.50	23.51
80.00	23.31
77.50	23.09
75.00	22.88
72.50	22.66
70.00	22.43
67.50	22.23
65.00	21.96
62.50	21.72
60.00	21.47
57.50	21.21
55.00	20.94
52.50	20.66
50.00	20.38
47.50	20.08
45.00	19.77
42.50	19.45
40.00	19.12
37.50	18.77
35.00	18.40
32.50	18.07
30.00	18.07
27.50	18.07
25.00	18.07
22.50	18.07
20.00	18.07
17.50	18.07
15.00	18.07
12.50	18.07
10.00	18.07
7.50	18.07
5.00	18.07
2.50	18.07

PRELIMINARY NOT FOR CONSTRUCTION

	NAME ROBS	DATE Jun 1 2006	FILE NO. 06-060-0603
CUSTOMER STATE OF WEST VIRGINIA PROJECT 280' 80 TOWER SITE Various	PAGE 11		

**Section I : ANTENNA DATA**

No.	Elev.	Type	Azi.	Radius	Ori.	Ant Qty	Mount Type	Mount Radius (ft)	Mount Azi.	Mount Att. Azi	Mount Elev. (ft)
1	260.00	HP6	0.0	3.00	0.0	1	(None)	0.00	0.0	0.0	0.00
2	260.00	HP6	180.0	3.00	120.0	1	(None)	0.00	0.0	0.0	0.00
3	200.00	HP6	180.0	3.00	240.0	1	(None)	0.00	0.0	0.0	0.00
4	200.00	HP6	0.0	3.00	0.0	1	(None)	0.00	0.0	0.0	0.00
5	140.00	HP6	180.0	3.00	120.0	1	(None)	0.00	0.0	0.0	0.00
6	140.00	HP6	0.0	3.00	0.0	1	(None)	0.00	0.0	0.0	0.00
7	80.00	HP6	0.0	3.00	0.0	1	(None)	0.00	0.0	0.0	0.00
8	80.00	HP6	180.0	3.00	240.0	1	(None)	0.00	0.0	0.0	0.00

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<b>RADIAN</b>		NAME ROBB	DATE Jun 1 2006	FILE NO. 06-060-0563
CUSTOMER STATE OF WEST VIRGINIA				PAGE 31
PROJECT 280' 80 TOWER				
SITE Various				

**Section J : TRANSMISSION LINE DATA**


**Transmission Lines Position**

No.	Bot El (ft)	Top El (ft)	Desc.	No.	Azim.	Radius (ft)	Orient.	Dist. (in)	Vert.	Part of Face	Shielded
1	0.00	280.00	LDF2-50	1	0.00	2.50	0.00	2.5591	No	No	No
2	0.00	280.00	RCO.75-Cnd	2	0.00	1.50	0.00	2.5591	No	No	No
3	0.00	277.00	LDF7P-50A	12	60.00	1.07	60.00	2.5591	No	Yes-Outside	No
4	0.00	270.00	LDF5P-50A	2	60.00	1.24	20.00	2.5591	No	No	Yes
5	0.00	260.00	LDF7P-50A	9	60.00	0.90	60.00	2.5591	No	No	Yes
6	0.00	215.00	LDF5P-50A	1	60.00	1.35	105.00	2.5591	No	No	Yes
7	0.00	215.00	LDF5P-50A	1	180.00	1.38	130.00	2.5591	No	Yes-Outside	No
8	0.00	200.00	LDF7P-50A	9	180.00	1.07	180.00	2.5591	No	Yes-Outside	No
9	0.00	160.00	LDF5P-50A	2	180.00	1.13	200.00	2.5591	No	Yes-Outside	No
10	0.00	140.00	LDF7P-50A	9	180.00	1.33	130.00	2.5591	No	No	Yes
11	0.00	105.00	LDF5P-50A	2	180.00	1.18	180.00	2.5591	No	No	Yes
12	0.00	80.00	LDF7P-50A	1	180.00	1.22	200.00	2.5591	No	No	Yes
13	0.00	80.00	LDF7P-50A	8	300.00	1.22	270.00	2.5591	No	Yes-Outside	No
14	0.00	50.00	LDF5P-50A	2	300.00	1.05	330.00	2.5591	No	Yes-Outside	No

**Transmission Lines Details**

No.	Desc.	Width (in)	Depth (in)	Unit Mass (lb/ft)
1	LDF2-50	0.43	0.43	0.08
2	RCO.75-Cnd	1.05	1.05	1.09
3	LDF7P-50A	2.01	2.01	0.92
4	LDF5P-50A	1.10	1.10	0.33
5	LDF7P-50A	2.01	2.01	0.92
6	LDF5P-50A	1.10	1.10	0.33
7	LDF5P-50A	1.10	1.10	0.33
8	LDF7P-50A	2.01	2.01	0.92
9	LDF5P-50A	1.10	1.10	0.33
10	LDF7P-50A	2.01	2.01	0.92
11	LDF5P-50A	1.10	1.10	0.33
12	LDF7P-50A	2.01	2.01	0.92
13	LDF7P-50A	2.01	2.01	0.92
14	LDF5P-50A	1.10	1.10	0.33

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 <b>RADIAN</b>	<b>NAME</b> ROBB	<b>DATE</b> Jun 1 2006	<b>FILE NO.</b> Q6-060-0583
<b>CUSTOMER</b> STATE OF WEST VIRGINIA			<b>PAGE NO.</b>
<b>PROJECT</b> 280' 80 TOWER			
<b>SITE</b> Various			

**Section N : POINT LOAD DATA**

No.	Description	Elev. (ft)	Azim.	Radius		Weight (Kips)		Ant ?	Depth/ Width	Ant. Azi.	
				(ft)	(ft)	Sare	Iced				
1	DUAL BEACONS	280.00	0.0	2.00	5.01	5.01	0.30	0.40	Yes	0.000	0.0
2	12-4'x1' pane	272.00	0.0	1.00	70.00	120.00	2.20	4.40	Yes	0.000	0.0
3	2-whips+6'sa	270.00	60.0	6.00	20.00	28.00	0.30	0.50	Yes	0.000	0.0
4	ICE SHIELD	264.00	0.0	2.61	16.00	20.00	1.00	2.00	No	0.000	0.0
5	ICE SHIELD	264.00	120.0	2.61	16.00	20.00	1.00	2.00	No	0.000	0.0
6	CTA	257.00	0.0	0.00	15.00	18.00	1.10	1.50	No	0.000	0.0
7	2-whips+6'sa	215.00	180.0	6.00	20.00	28.00	0.30	0.50	Yes	0.000	0.0
8	ICE SHIELD	204.00	240.0	2.61	16.00	20.00	1.00	2.00	No	0.000	0.0
9	ICE SHIELD	204.00	0.0	2.61	16.00	20.00	1.00	2.00	No	0.000	0.0
10	CTA	197.00	0.0	0.00	15.00	18.00	1.10	1.50	No	0.000	0.0
11	2-whips+6'sa	160.00	300.0	6.00	20.00	28.00	0.30	0.50	Yes	0.000	0.0
12	ICE SHIELD	145.00	120.0	2.61	16.00	20.00	1.00	2.00	No	0.000	0.0
13	ICE SHIELD	145.00	0.0	2.61	16.00	20.00	1.00	2.00	No	0.000	0.0
14	CTA	123.00	0.0	0.00	15.00	18.00	1.10	1.50	No	0.000	0.0
15	2-whips+6'sa	105.00	60.0	6.00	20.00	28.00	0.30	0.50	Yes	0.000	0.0
16	ICE SHIELD	85.00	0.0	2.61	16.00	20.00	1.00	2.00	No	0.000	0.0
17	ICE SHIELD	85.00	240.0	2.61	16.00	20.00	1.00	2.00	No	0.000	0.0
18	2-whips+6'sa	50.00	180.0	6.00	20.00	28.00	0.30	0.50	Yes	0.000	0.0

PRELIMINARY NOT FOR CONSTRUCTION

\\2013on13422019\Projects\2006\05-050-058\05-050-058\Fig. J-1 6/7/2006 3:12:32 PM

**RADIAN**

NAME  
ROBB

DATE  
Jun 1 2006

FILE NO.  
05-050-0583

PAGE 2 1

CUSTOMER STATE OF WEST VIRGINIA  
PROJECT 280' 80 TOWER  
SITE Various

### SECTION P : MEMBER CAPACITIES AND ASSESSMENT

Section Description	Part	Member Description	Grade	Size	End Dist.	Eccentricity (in)	Length (ft)	Size	Length (ft)	Compresses (kips)			Tension (kips)			Bolted end (kips)			Factor																																										
										Comp.	Tension	Block	Comp.	Tension	Block	Comp.	Tension	Block																																											
New Section 1	1	Log PIPE 2.875x0.276 DIAg. PIPS 1.500x0.12	A572 95.42	3/4	N/A	N/A	2.500	N/A	32.5	80.5	90.0	N/A	N/A	113.17	0.5	0.2	0.008C																																												
																		1	N/A	N/A	105.5	9.0	17.5	N/A	N/A	7.95	0.2	0.022F																																	
																													1	N/A	N/A	51.7	10.0	17.5	N/A	N/A	7.95	0.0	0.060T																						
																																								0	N/A	N/A	32.5	60.5	90.0	N/A	N/A	113.17	6.5	0.081C											
																																																			1	N/A	N/A	105.5	9.0	17.5	N/A	N/A	7.95	2.2	0.211T
4	N/A	N/A	105.5	9.0	17.5	N/A	N/A	7.95	2.4	0.328T																																																			
											4	N/A	N/A	32.5	89.5	90.0	N/A	N/A	113.17	2.5	0.159C																																								
																						1	N/A	N/A	105.5	9.0	17.5	N/A	N/A	7.95	3.0	0.370T																													
																																	0	N/A	N/A	32.5	80.5	90.0	N/A	N/A	113.17	17.5	0.218C																		
																																												4	N/A	N/A	105.5	9.0	17.5	N/A	N/A	7.95	3.3	0.417T							
																																																							4	N/A	N/A	32.5	89.5	90.0	N/A
1	N/A	N/A	105.5	9.0	17.5	N/A	N/A	7.95	3.4	0.435C																																																			
											4	N/A	N/A	32.5	89.5	90.0	N/A	N/A	113.17	29.7	0.368C																																								
																						1	N/A	N/A	105.5	9.0	17.5	N/A	N/A	7.95	4.2	0.530T																													
																																	0	N/A	N/A	32.5	90.5	90.0	N/A	N/A	113.17	35.9	0.481C																		
																																												4	N/A	N/A	105.5	9.0	17.5	N/A	N/A	7.95	4.4	0.569T							
																																																							4	N/A	N/A	32.5	89.5	90.0	N/A
1	N/A	N/A	105.5	9.0	17.5	N/A	N/A	7.95	5.7	0.730T																																																			
											0	N/A	N/A	32.5	89.5	90.0	N/A	N/A	113.17	50.0	0.660T																																								
																						4	N/A	N/A	105.5	9.0	17.5	N/A	N/A	7.95	6.0	0.821C																													



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**RADIAN**

ROBB

DATE  
JUN 1 2005

FILE NO.  
06-060-0583

CUSTOMER STATE OF WEST VIRGINIA

PROJECT 280' 80 TOWER

SITE VARIOUS

PAGE P 2

**SECTION P : MEMBER CAPACITIES AND ASSESSMENT (cont.)**

Section Description	Mn	Member Description	Grade	Size		Ecc. Date (Yr)	Ecc. (In)	Spanning (In)	Stitching (In)	2-8/8 Rods (No)	Topps Conc. (Kb)	I/c	Capacity (Kip)			Maximum Load (Kip)	Ratio		
				Pt.	Size (In)								Concrete	Rebar	Stitch			2005 (or 21)	2012
1	1	W12x100	Gr. 42	1/2	N/A	N/A					4,233	105.5	31.0	N/A	3.6	7.95	5.8	3.8	0.7347
		1-9	Gr. 50	3/4	N/A	N/A					2,500	32.5	86.5	N/A	N/A	113.17	47.8	7.2	0.3240
		2-8	Gr. 42	1/2	N/A	N/A					4,233	105.5	31.0	N/A	3.6	7.95	5.8	3.8	0.3557
2	1	W12x100	Gr. 50	3/4	N/A	N/A					2,500	32.5	80.5	N/A	N/A	113.17	45.1	1.8	0.3500
		1-9	Gr. 42	1/2	N/A	N/A					4,233	105.5	31.0	N/A	3.6	7.95	2.6	2.5	0.3332
		2-8	Gr. 50	3/4	N/A	N/A					2,500	32.5	80.6	N/A	N/A	113.17	42.4	1.5	0.3250
3	1	W12x100	Gr. 42	1/2	N/A	N/A					4,233	105.5	31.0	N/A	3.6	7.95	2.5	2.5	0.3167
		1-9	Gr. 50	3/4	N/A	N/A					2,500	32.5	80.6	N/A	N/A	113.17	39.7	1.2	0.4930
		2-8	Gr. 42	1/2	N/A	N/A					4,233	105.5	31.0	N/A	3.6	7.95	2.3	2.3	0.2960
4	1	W12x100	Gr. 50	3/4	N/A	N/A					2,500	32.5	80.6	N/A	N/A	113.17	31.0	0.7	0.4590
		1-9	Gr. 42	1/2	N/A	N/A					4,233	105.5	31.0	N/A	3.6	7.95	2.2	2.2	0.2760
		2-8	Gr. 50	3/4	N/A	N/A					2,500	32.5	80.5	N/A	N/A	113.17	34.2	0.4	0.4850
5	1	W12x100	Gr. 42	1/2	N/A	N/A					4,233	105.5	31.0	N/A	3.6	7.95	2.0	2.0	0.2567
		1-9	Gr. 50	3/4	N/A	N/A					2,500	32.5	80.5	N/A	N/A	113.17	32.4	0.0	0.4070
		2-8	Gr. 42	1/2	N/A	N/A					4,233	105.5	31.0	N/A	3.6	7.95	1.9	1.9	0.4140
6	1	W12x100	Gr. 42	1/2	N/A	N/A					4,233	105.5	31.0	N/A	3.6	7.95	1.8	1.8	0.4007
		1-9	Gr. 50	3/4	N/A	N/A					2,500	32.5	80.6	N/A	N/A	113.17	31.3	0.0	0.4140
		2-8	Gr. 42	1/2	N/A	N/A					4,233	105.5	31.0	N/A	3.6	7.95	1.8	1.8	0.3830
7	1	W12x100	Gr. 50	3/4	N/A	N/A					2,500	32.5	80.6	N/A	N/A	113.17	34.3	0.0	0.4750
		1-9	Gr. 42	1/2	N/A	N/A					4,233	105.5	31.0	N/A	3.6	7.95	1.6	1.6	0.3520
		2-8	Gr. 50	3/4	N/A	N/A					2,500	32.5	80.6	N/A	N/A	113.17	35.2	0.8	0.4310

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CUSTOMER STATE OF WEST VIRGINIA


PROJECT 280' 80 TOWER

SIZE Various

Section P : MEMBER CAPACITIES AND ASSESSMENT (cont.)

Pile No.	Pile Description	Pile Size	Pile Length	Pile Section	Pile Material	Pile Capacity	Pile Stiffness	Pile Head	Pile Tip	Capacities (kip)		Ult. Comp.	Max. Load (kip)	Ratio
										Vertical	Horizontal			
5	Diag. Pipe 1.500x0.058	3/4	4	AS72 gr.42 1	N/A	2,500	103.7	N/A	4.8	7.95	1.5	36.1	1.5	0.3200
	Leg	3/4	4	AS72 gr.50 4	N/A	2,500	103.7	N/A	N/A	N/A	N/A	36.1	1.5	0.3200
	PIPE 2.875x0.276	3/2	4	AS72 gr.42 1	N/A	2,500	103.7	N/A	4.8	7.95	1.5	36.1	1.5	0.3200
6	Diag. Pipe 1.500x0.058	3/4	6	AS72 gr.50 6	N/A	2,500	103.7	N/A	N/A	N/A	N/A	36.1	1.5	0.3200
	Leg	3/4	6	AS72 gr.50 4	N/A	2,500	103.7	N/A	N/A	N/A	N/A	36.1	1.5	0.3200
	PIPE 2.875x0.276	3/2	4	AS72 gr.42 1	N/A	2,500	103.7	N/A	4.8	7.95	1.5	36.1	1.5	0.3200
7	Diag. Pipe 1.500x0.058	3/4	4	AS72 gr.42 1	N/A	2,500	103.7	N/A	N/A	N/A	N/A	36.1	1.5	0.3200
	Leg	3/4	4	AS72 gr.50 4	N/A	2,500	103.7	N/A	N/A	N/A	N/A	36.1	1.5	0.3200
	PIPE 2.875x0.276	3/2	4	AS72 gr.42 1	N/A	2,500	103.7	N/A	4.8	7.95	1.5	36.1	1.5	0.3200
8	Diag. Pipe 1.500x0.058	3/4	4	AS72 gr.42 1	N/A	2,500	103.7	N/A	N/A	N/A	N/A	36.1	1.5	0.3200
	Leg	3/4	4	AS72 gr.50 4	N/A	2,500	103.7	N/A	N/A	N/A	N/A	36.1	1.5	0.3200
	PIPE 2.875x0.276	3/2	4	AS72 gr.42 1	N/A	2,500	103.7	N/A	4.8	7.95	1.5	36.1	1.5	0.3200
9	Diag. Pipe 1.500x0.058	3/4	4	AS72 gr.42 1	N/A	2,500	103.7	N/A	N/A	N/A	N/A	36.1	1.5	0.3200
	Leg	3/4	4	AS72 gr.50 4	N/A	2,500	103.7	N/A	N/A	N/A	N/A	36.1	1.5	0.3200
	PIPE 2.875x0.276	3/2	4	AS72 gr.42 1	N/A	2,500	103.7	N/A	4.8	7.95	1.5	36.1	1.5	0.3200
10	Diag. Pipe 1.500x0.058	3/4	4	AS72 gr.42 1	N/A	2,500	103.7	N/A	N/A	N/A	N/A	36.1	1.5	0.3200
	Leg	3/4	4	AS72 gr.50 4	N/A	2,500	103.7	N/A	N/A	N/A	N/A	36.1	1.5	0.3200
	PIPE 2.875x0.276	3/2	4	AS72 gr.42 1	N/A	2,500	103.7	N/A	4.8	7.95	1.5	36.1	1.5	0.3200
11	Diag. Pipe 1.500x0.058	3/4	4	AS72 gr.42 1	N/A	2,500	103.7	N/A	N/A	N/A	N/A	36.1	1.5	0.3200
	Leg	3/4	4	AS72 gr.50 4	N/A	2,500	103.7	N/A	N/A	N/A	N/A	36.1	1.5	0.3200
	PIPE 2.875x0.276	3/2	4	AS72 gr.42 1	N/A	2,500	103.7	N/A	4.8	7.95	1.5	36.1	1.5	0.3200

CONSTRUCTION


**RADIAN**

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FILE NO.  
**06-060-0583**

CUSTOMER STATE OF WEST VIRGINIA

PROJECT 280' 80 TOWER

SIZE Various

PAGE 2 of 4

**Section P.1 MEMBER CAPACITIES AND ASSESSMENT (CONT.)**

Section Description	Node	Member/Restriction	Grade	Plate No.	Plate Size (in)	Tens. Area (in <sup>2</sup> )	Yield Stress (ksi)	Tens. Force (k)	L-Depth (mm)	L-Depth (in)	W <sub>f</sub> /t	Compress. Force (k)	Expansive Forces			Max. Moment (ft-k)	Max. Axial (k)		
													Compress.	Shrink	Settle				
7	Leg	AS72 95.50	N/A		1/2			4.6	4.203	163.7	103.7	4.6	8.0	N/A	4.9	7.90	2.1	2.1	0.453C
	Diag.	AS72 95.50	N/A		3/4			4.6	2.509	32.5	80.6	4.6	50.0	N/A	N/A	113.17	36.8	0.0	0.431C
	PIPE 1.500x0.058							4.6	4.233	103.7	80.6	4.6	8.0	N/A	4.9	7.90	2.1	2.1	0.453C
	PIPE 2.875x0.276							4.6	2.500	32.5	80.6	4.6	50.0	N/A	N/A	113.17	36.8	0.0	0.431C
8	Leg	AS72 95.50	N/A		1/2			4.6	4.233	103.7	80.6	4.6	8.0	N/A	4.9	7.90	2.1	2.1	0.453C
	Diag.	AS72 95.50	N/A		3/4			4.6	2.500	32.5	80.6	4.6	50.0	N/A	N/A	113.17	36.8	0.0	0.431C
	PIPE 1.500x0.058							4.6	4.233	103.7	80.6	4.6	8.0	N/A	4.9	7.90	2.1	2.1	0.453C
	PIPE 2.875x0.276							4.6	2.500	32.5	80.6	4.6	50.0	N/A	N/A	113.17	36.8	0.0	0.431C
9	Leg	AS72 95.50	N/A		1/2			4.6	4.233	103.7	80.6	4.6	8.0	N/A	4.9	7.90	2.1	2.1	0.453C
	Diag.	AS72 95.50	N/A		3/4			4.6	2.500	32.5	80.6	4.6	50.0	N/A	N/A	113.17	36.8	0.0	0.431C
	PIPE 1.500x0.058							4.6	4.233	103.7	80.6	4.6	8.0	N/A	4.9	7.90	2.1	2.1	0.453C
	PIPE 2.875x0.276							4.6	2.500	32.5	80.6	4.6	50.0	N/A	N/A	113.17	36.8	0.0	0.431C

UNDER CONSTRUCTION

**RADIAN**

NRSE  
RORB

DATE  
JUN 1 2006

FILE NO.  
06-060-0593

CUSTOMER STATE OF WEST VIRGINIA

PROJECT 280' 80 TOWER

SITE VARIOUS

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SECTION P : MEMBER CAPACITIES AND ASSESSMENT (cont.)

Section Description	Member Description	Grade	Elev		Dist Dist	Elev Dist	Double Hoops		Length Dist	W/A	Separation (Dist)			Reinforcement Compres.	Reinforcement Ratio	Ratio
			No.	Dist			Dist	Dist			Dist	Dist	Dist			
New Section 1	Diag. PIPE 1.500x0.038	A572 Gr. 42	1	1/2	N/A	N/A	4.233 2.719	4.8	4.8	7.95	1.6	1.6	1.6	0.341C		
	Leg PIPE 3.500x0.300	A572 Gr. 50	4	3/4	N/A	N/A	2.500 2.500	N/A	N/A	113.17	62.9	0.0	0.653C			
	Diag. PIPE 1.500x0.12	A572 Gr. 42	1	1/2	N/A	N/A	4.233 3.719	9.6	9.6	7.95	2.9	2.9	0.263T			
	Warrt. PIPE 1.500x0.12	A572 Gr. 42	1	1/2	N/A	N/A	3.415 2.833	9.6	9.6	7.95	0.9	0.9	0.120T			
2	Leg PIPE 3.500x0.300	A572 Gr. 50	4	3/4	N/A	N/A	2.500 2.500	N/A	N/A	113.17	64.7	0.0	0.665C			
	Diag. PIPE 1.500x0.12	A572 Gr. 42	1	1/2	N/A	N/A	4.233 3.719	9.6	9.6	7.95	2.6	2.6	0.295T			
	Leg PIPE 3.500x0.300	A572 Gr. 50	4	3/4	N/A	N/A	2.500 2.500	N/A	N/A	113.17	65.2	0.0	0.577C			
	Warrt. PIPE 1.500x0.12	A572 Gr. 42	1	1/2	N/A	N/A	4.233 3.719	9.6	9.6	7.95	2.4	2.4	0.309T			
3	Leg PIPE 3.500x0.300	A572 Gr. 50	4	3/4	N/A	N/A	2.500 2.500	N/A	N/A	113.17	66.3	0.0	0.693C			
	Diag. PIPE 1.500x0.12	A572 Gr. 42	1	1/2	N/A	N/A	4.233 3.719	9.6	9.6	7.95	2.2	2.2	0.280T			
	Leg PIPE 3.500x0.300	A572 Gr. 50	4	3/4	N/A	N/A	2.500 2.500	N/A	N/A	113.17	67.5	0.0	0.700C			
	Warrt. PIPE 1.500x0.12	A572 Gr. 42	1	1/2	N/A	N/A	4.233 3.719	9.6	9.6	7.95	2.9	2.9	0.255T			
4	Leg PIPE 3.500x0.300	A572 Gr. 50	4	3/4	N/A	N/A	2.500 2.500	N/A	N/A	113.17	69.6	0.0	0.712C			
	Diag. PIPE 1.500x0.12	A572 Gr. 42	1	1/2	N/A	N/A	4.233 3.719	9.6	9.6	7.95	1.8	1.8	0.275T			
	Leg PIPE 3.500x0.300	A572 Gr. 50	4	3/4	N/A	N/A	2.500 2.500	N/A	N/A	113.17	69.8	0.0	0.726C			
	Warrt. PIPE 1.500x0.12	A572 Gr. 42	1	1/2	N/A	N/A	4.233 3.719	9.6	9.6	7.95	1.6	1.6	0.197T			
5	Leg PIPE 3.500x0.300	A572 Gr. 50	4	3/4	N/A	N/A	2.500 2.500	N/A	N/A	113.17	70.9	0.0	0.736C			
	Diag. PIPE 1.500x0.12	A572 Gr. 42	1	1/2	N/A	N/A	4.233 3.719	9.6	9.6	7.95	1.3	1.3	0.170T			
	Leg PIPE 3.500x0.300	A572 Gr. 50	4	3/4	N/A	N/A	2.500 2.500	N/A	N/A	113.17	71.6	0.0	0.745C			
	Warrt. PIPE 1.500x0.12	A572 Gr. 42	1	1/2	N/A	N/A	4.233 3.719	9.6	9.6	7.95	1.9	1.9	0.237T			
6	Leg PIPE 3.500x0.300	A572 Gr. 50	4	3/4	N/A	N/A	2.500 2.500	N/A	N/A	113.17	72.5	0.0	0.757C			
	Diag. PIPE 1.500x0.12	A572 Gr. 42	1	1/2	N/A	N/A	4.233 3.719	9.6	9.6	7.95	1.1	1.1	0.177T			
	Leg PIPE 3.500x0.300	A572 Gr. 50	4	3/4	N/A	N/A	2.500 2.500	N/A	N/A	113.17	72.6	0.0	0.745C			
	Warrt. PIPE 1.500x0.12	A572 Gr. 42	1	1/2	N/A	N/A	4.233 3.719	9.6	9.6	7.95	1.9	1.9	0.237T			

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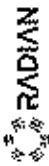
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DATE JUN 1 2006

FILE NO. Q6-060-9583  
PAGE 6

CUSTOMER STATE OF WEST VIRGINIA  
PROJECT 280' 80 TORRES  
SITE VARIOUS

Section P - MEMBER CAPACITIES AND ASSESSMENT (CONT.)

Section Description	Part	Member/Description	Grade	Start No.	End No.	K15 Dist. (ft)	K15 Spacing (ft)	Number of Joints	Length (ft)	K1/C	Capacity (kips)		Maximum Load (kips)	Ratio
											Shear	Tension		
2	L49 PIPE 3.500x0.300 D199.	AS72 9T.50	6	9/4	N/A	N/A	N/A	2.500	2.500	52.5	95.4	120.8	70.3	0.792
											37.3	N/A	2.4	0.303
											96.4	120.8	69.4	0.720
											37.3	N/A	2.4	0.303
3	L49 PIPE 3.500x0.300 D199.	AS72 9T.50	4	3/4	N/A	N/A	N/A	2.500	2.500	52.5	95.4	120.8	70.3	0.792
											37.3	N/A	2.4	0.303
											96.4	120.8	69.4	0.720
											37.3	N/A	2.4	0.303
4	L49 PIPE 3.500x0.300 D199.	AS72 9T.50	4	3/4	N/A	N/A	N/A	2.500	2.500	52.5	95.4	120.8	70.3	0.792
											37.3	N/A	2.4	0.303
											96.4	120.8	69.4	0.720
											37.3	N/A	2.4	0.303
5	L49 PIPE 3.500x0.300 D199.	AS72 9T.50	4	3/4	N/A	N/A	N/A	2.500	2.500	52.5	95.4	120.8	70.3	0.792
											37.3	N/A	2.4	0.303
											96.4	120.8	69.4	0.720
											37.3	N/A	2.4	0.303
6	L49 PIPE 3.500x0.300 D199.	AS72 9T.50	4	3/4	N/A	N/A	N/A	2.500	2.500	52.5	95.4	120.8	70.3	0.792
											37.3	N/A	2.4	0.303
											96.4	120.8	69.4	0.720
											37.3	N/A	2.4	0.303
7	L49 PIPE 3.500x0.300 D199.	AS72 9T.50	4	3/4	N/A	N/A	N/A	2.500	2.500	52.5	95.4	120.8	70.3	0.792
											37.3	N/A	2.4	0.303
											96.4	120.8	69.4	0.720
											37.3	N/A	2.4	0.303
8	L49 PIPE 3.500x0.300 D199.	AS72 9T.50	4	3/4	N/A	N/A	N/A	2.500	2.500	52.5	95.4	120.8	70.3	0.792
											37.3	N/A	2.4	0.303
											96.4	120.8	69.4	0.720
											37.3	N/A	2.4	0.303
Near Section 1	L49 PIPE 3.500x0.300 D199.	AS72 9T.50	4	7/8	N/A	N/A	N/A	2.500	2.500	52.5	95.4	120.8	70.3	0.792
											37.3	N/A	2.4	0.303
											96.4	120.8	69.4	0.720
											37.3	N/A	2.4	0.303
2	L49 PIPE 3.500x0.300 D199.	AS72 9T.50	4	7/8	N/A	N/A	N/A	2.500	2.500	52.5	95.4	120.8	70.3	0.792
											37.3	N/A	2.4	0.303
											96.4	120.8	69.4	0.720
											37.3	N/A	2.4	0.303
3	L49 PIPE 3.500x0.300 D199.	AS72 9T.50	4	7/8	N/A	N/A	N/A	2.500	2.500	52.5	95.4	120.8	70.3	0.792
											37.3	N/A	2.4	0.303
											96.4	120.8	69.4	0.720
											37.3	N/A	2.4	0.303



CUSTOMER: STATE OF WEST VIRGINIA  
 PROJECT: 280' 80 TOWER  
 SITE: VARIOUS

NAME:  
ROBB

DATE:  
Jun 1 2006

FILE NO.  
06-060-0583

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SECTION P - MEMBER CAPACITIES AND ASSESSMENT (CONT.)

Section	Member Description	Grade	Size	Yrs	Dist.	Type	Spalling		Cracks		Depth	Type	Comp.	Reinforcement (R/F)			Status		
							(in)	(in)	(in)	(in)				Bar	Bar	Bar			
4	LEG PIPE 3.500x0.300	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.583C
	Diag.	A572 95.50	1	1/2	N/A	N/A					4.233	103.7	4.5	N/A	N/A	7.95	4.3	4.0	0.670C
	PIPE 1.500x0.058	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.670C
5	LEG PIPE 3.500x0.300	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.670C
	Diag.	A572 95.50	1	1/2	N/A	N/A					4.233	103.7	4.5	N/A	N/A	7.95	4.3	4.0	0.670C
	PIPE 1.500x0.058	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.670C
6	LEG PIPE 3.500x0.300	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.670C
	Diag.	A572 95.50	1	1/2	N/A	N/A					4.233	103.7	4.5	N/A	N/A	7.95	4.3	4.0	0.670C
	PIPE 1.500x0.058	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.670C
7	LEG PIPE 3.500x0.300	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.670C
	Diag.	A572 95.50	1	1/2	N/A	N/A					4.233	103.7	4.5	N/A	N/A	7.95	4.3	4.0	0.670C
	PIPE 1.500x0.058	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.670C
8	LEG PIPE 3.500x0.300	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.670C
	Diag.	A572 95.50	1	1/2	N/A	N/A					4.233	103.7	4.5	N/A	N/A	7.95	4.3	4.0	0.670C
	PIPE 1.500x0.058	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.670C
1	LEG PIPE 3.500x0.300	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.670C
	Diag.	A572 95.50	1	1/2	N/A	N/A					4.233	103.7	4.5	N/A	N/A	7.95	4.3	4.0	0.670C
	PIPE 1.500x0.058	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.670C
2	LEG PIPE 3.500x0.300	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.670C
	Diag.	A572 95.50	1	1/2	N/A	N/A					4.233	103.7	4.5	N/A	N/A	7.95	4.3	4.0	0.670C
	PIPE 1.500x0.058	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.670C
3	LEG PIPE 3.500x0.300	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.670C
	Diag.	A572 95.50	1	1/2	N/A	N/A					4.233	103.7	4.5	N/A	N/A	7.95	4.3	4.0	0.670C
	PIPE 1.500x0.058	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.670C
4	LEG PIPE 3.500x0.300	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.670C
	Diag.	A572 95.50	1	1/2	N/A	N/A					4.233	103.7	4.5	N/A	N/A	7.95	4.3	4.0	0.670C
	PIPE 1.500x0.058	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.670C
5	LEG PIPE 3.500x0.300	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.670C
	Diag.	A572 95.50	1	1/2	N/A	N/A					4.233	103.7	4.5	N/A	N/A	7.95	4.3	4.0	0.670C
	PIPE 1.500x0.058	A572 95.50	4	7/8	N/A	N/A					2.500	26.3	111.1	N/A	N/A	153.9T	54.7	1.4	0.670C

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CUSTOMER STATE OF WEST VIRGINIA  
PROJECT 280' 80 TOWER  
SITE Various

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**SECTION P : MEMBER CAPACITIES AND ASSESSMENT (CONT.)**

Station Description	No.	Member/Description	Stack	Area		Elev. Base. (ft)	Torsion (ft-k)	Twist Angle (deg)	Length Over. Len (ft)	I2/I1	Compressive		Tensile		Max. Load (kip)	Ratio
				sq. ft	sq. ft						Comp.	Tens.	Comp.	Tens.		
1 Leg PIPE 3.500x0.300 D159.	4	A572 9T.50	N/A	N/A	N/A	2.500			26.3	111.1	120.8	N/A	N/A	153.97	81.4	0.733C
	1	A572 9T.42	N/A	N/A	N/A	2.500			103.7	4.5	8.8	N/A	N/A	7.95	1.7	0.377C
	4	A572 9T.50	N/A	N/A	N/A	2.500			26.3	111.1	120.8	N/A	N/A	153.97	81.4	0.733C
2 Leg PIPE 3.500x0.300 D159.	4	A572 9T.50	N/A	N/A	N/A	2.500			26.3	111.1	120.8	N/A	N/A	153.97	81.4	0.733C
	1	A572 9T.42	N/A	N/A	N/A	2.500			103.7	4.5	8.8	N/A	N/A	7.95	1.7	0.377C
	4	A572 9T.50	N/A	N/A	N/A	2.500			26.3	111.1	120.8	N/A	N/A	153.97	81.4	0.733C
3 Leg PIPE 3.500x0.300 D159.	4	A572 9T.50	N/A	N/A	N/A	2.500			26.3	111.1	120.8	N/A	N/A	153.97	81.4	0.733C
	1	A572 9T.42	N/A	N/A	N/A	2.500			103.7	4.5	8.8	N/A	N/A	7.95	1.7	0.377C
	4	A572 9T.50	N/A	N/A	N/A	2.500			26.3	111.1	120.8	N/A	N/A	153.97	81.4	0.733C
4 Leg PIPE 3.500x0.300 D159.	4	A572 9T.50	N/A	N/A	N/A	2.500			26.3	111.1	120.8	N/A	N/A	153.97	81.4	0.733C
	1	A572 9T.42	N/A	N/A	N/A	2.500			103.7	4.5	8.8	N/A	N/A	7.95	1.7	0.377C
	4	A572 9T.50	N/A	N/A	N/A	2.500			26.3	111.1	120.8	N/A	N/A	153.97	81.4	0.733C
5 Leg PIPE 3.500x0.300 D159.	4	A572 9T.50	N/A	N/A	N/A	2.500			26.3	111.1	120.8	N/A	N/A	153.97	81.4	0.733C
	1	A572 9T.42	N/A	N/A	N/A	2.500			103.7	4.5	8.8	N/A	N/A	7.95	1.7	0.377C
	4	A572 9T.50	N/A	N/A	N/A	2.500			26.3	111.1	120.8	N/A	N/A	153.97	81.4	0.733C
6 Leg PIPE 3.500x0.300 D159.	4	A572 9T.50	N/A	N/A	N/A	2.500			26.3	111.1	120.8	N/A	N/A	153.97	81.4	0.733C
	1	A572 9T.42	N/A	N/A	N/A	2.500			103.7	4.5	8.8	N/A	N/A	7.95	1.7	0.377C
	4	A572 9T.50	N/A	N/A	N/A	2.500			26.3	111.1	120.8	N/A	N/A	153.97	81.4	0.733C

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CUSTOMER STATE OF WEST VIRGINIA

PROJECT 280' 80 TOWER

SITE Various

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SECTION P - MEMBER CAPACITIES AND ASSESSMENT (CONT.)

Section Description	Sht	RMBR/Description	Grade	Qty	Diam (in)	Elev (ft)	Edge Dist. (ft)	Edge Dist. (ft)	Spacing (in)	Number of Spacing	Section Mod. (in <sup>3</sup> )	Area (in <sup>2</sup> )	M/A	Compressive		Tension		Capacities (Kips)		Max Mem Load (Kips)	Ratio
														Stress (ksi)	Strain (%)	Stress (ksi)	Strain (%)	Comp	Tens		
New Section 1	1	Leg	A572 95-50	4	7/8	N/A	N/A	N/A			2,500	52.6	96.4	120.8	N/A	N/A	153.97	86.3	0.9	0.8960	
		PIPE 3,500x0.300									2,500	52.6	96.4	120.8	N/A	N/A	153.97	86.3	0.9	0.8960	
		Diag.	A572 95-42	1	1/2	N/A	N/A	N/A	N/A			4,233	103.7	8.6	8.8	N/A	N/A	7.95	2.8	2.8	0.8340
		PIPE 1,500x0.058									3,719	103.7	8.6	8.8	N/A	N/A	7.95	2.8	2.8	0.8340	
New Section 2	2	Leg	A572 95-50	4	7/8	N/A	N/A	N/A			2,500	52.6	96.4	120.8	N/A	N/A	153.97	86.3	0.0	0.8960	
		PIPE 3,500x0.300								2,500	52.6	96.4	120.8	N/A	N/A	153.97	86.3	0.0	0.8960		
		Diag.	A572 95-42	1	1/2	N/A	N/A	N/A	N/A			4,233	103.7	9.0	17.5	N/A	N/A	7.95	2.4	4.4	0.8627
		PIPE 1,500x0.12									3,415	90.7	10.3	17.5	N/A	N/A	7.95	2.4	4.4	0.8627	
New Section 3	3	Leg	A572 95-50	4	7/8	N/A	N/A	N/A			2,500	52.6	96.4	120.8	N/A	N/A	153.97	86.3	0.0	0.8960	
		PIPE 3,500x0.300								2,500	52.6	96.4	120.8	N/A	N/A	153.97	86.3	0.0	0.8960		
		Diag.	A572 95-42	1	1/2	N/A	N/A	N/A	N/A			4,233	103.7	9.0	17.5	N/A	N/A	7.95	2.4	4.4	0.8627
		PIPE 1,500x0.12									3,415	90.7	10.3	17.5	N/A	N/A	7.95	2.4	4.4	0.8627	
New Section 4	4	Leg	A572 95-50	4	7/8	N/A	N/A	N/A			2,500	52.6	96.4	120.8	N/A	N/A	153.97	86.3	0.0	0.8960	
		PIPE 3,500x0.300								2,500	52.6	96.4	120.8	N/A	N/A	153.97	86.3	0.0	0.8960		
		Diag.	A572 95-42	1	1/2	N/A	N/A	N/A	N/A			4,233	103.7	9.0	17.5	N/A	N/A	7.95	2.4	4.4	0.8627
		PIPE 1,500x0.12									3,415	90.7	10.3	17.5	N/A	N/A	7.95	2.4	4.4	0.8627	
New Section 5	5	Leg	A572 95-50	4	7/8	N/A	N/A	N/A			2,500	52.6	96.4	120.8	N/A	N/A	153.97	86.3	0.0	0.8960	
		PIPE 3,500x0.300								2,500	52.6	96.4	120.8	N/A	N/A	153.97	86.3	0.0	0.8960		
		Diag.	A572 95-42	1	1/2	N/A	N/A	N/A	N/A			4,233	103.7	9.0	17.5	N/A	N/A	7.95	2.4	4.4	0.8627
		PIPE 1,500x0.12									3,415	90.7	10.3	17.5	N/A	N/A	7.95	2.4	4.4	0.8627	
New Section 6	6	Leg	A572 95-50	4	7/8	N/A	N/A	N/A			2,500	52.6	96.4	120.8	N/A	N/A	153.97	86.3	0.0	0.8960	
		PIPE 3,500x0.300								2,500	52.6	96.4	120.8	N/A	N/A	153.97	86.3	0.0	0.8960		
		Diag.	A572 95-42	1	1/2	N/A	N/A	N/A	N/A			4,233	103.7	9.0	17.5	N/A	N/A	7.95	2.4	4.4	0.8627
		PIPE 1,500x0.12									3,415	90.7	10.3	17.5	N/A	N/A	7.95	2.4	4.4	0.8627	
New Section 7	7	Leg	A572 95-50	4	7/8	N/A	N/A	N/A			2,500	52.6	96.4	120.8	N/A	N/A	153.97	86.3	0.0	0.8960	
		PIPE 3,500x0.300								2,500	52.6	96.4	120.8	N/A	N/A	153.97	86.3	0.0	0.8960		
		Diag.	A572 95-42	1	1/2	N/A	N/A	N/A	N/A			4,233	103.7	9.0	17.5	N/A	N/A	7.95	2.4	4.4	0.8627
		PIPE 1,500x0.12									3,415	90.7	10.3	17.5	N/A	N/A	7.95	2.4	4.4	0.8627	
New Section 8	8	Leg	A572 95-50	4	7/8	N/A	N/A	N/A			2,500	52.6	96.4	120.8	N/A	N/A	153.97	86.3	0.0	0.8960	
		PIPE 3,500x0.300								2,500	52.6	96.4	120.8	N/A	N/A	153.97	86.3	0.0	0.8960		
		Diag.	A572 95-42	1	1/2	N/A	N/A	N/A	N/A			4,233	103.7	9.0	17.5	N/A	N/A	7.95	2.4	4.4	0.8627
		PIPE 1,500x0.12									3,415	90.7	10.3	17.5	N/A	N/A	7.95	2.4	4.4	0.8627	
New Section 9	9	Leg	A572 95-50	4	7/8	N/A	N/A	N/A			2,500	52.6	96.4	120.8	N/A	N/A	153.97	86.3	0.0	0.8960	
		PIPE 3,500x0.300								2,500	52.6	96.4	120.8	N/A	N/A	153.97	86.3	0.0	0.8960		
		Diag.	A572 95-42	1	1/2	N/A	N/A	N/A	N/A			4,233	103.7	9.0	17.5	N/A	N/A	7.95	2.4	4.4	0.8627
		PIPE 1,500x0.12									3,415	90.7	10.3	17.5	N/A	N/A	7.95	2.4	4.4	0.8627	



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**CUSTOMER STATE OF WEST VIRGINIA**

**PROJECT 280' 80 KOHEE**

**SITE Various**

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**SECTION P - MEMBER CAPACITIES AND ASSESSMENT (CONT.)**

Section Description	Qty	Member/Description	Grade	Bolt		End Dist. (ft)	End Start (ft)	Days	Double Bolt Spacing (ft)		Projec Coord. (ft)	1/2	Capacity	Capacities (kips)		Max. Load (kips)	Ratio	
				No.	Size (in)				Spacing (ft)	End (ft)				Block Shear	Tensile			Block Shear
1	1	LEG PIPE 1.500x0.12	A572 GR. 50	1	1/2	N/A	N/A	N/A	3.415 2.833	3.415 2.833	2.415 2.500	94.7	11.5	N/A	N/A	7.55	1.4	0.378T
2	1	LEG PIPE 3.500x0.200	A572 GR. 50	4	7/8	N/A	N/A	N/A	2.500 2.500	2.500 2.500	2.500 2.500	32.6	129.3	N/A	N/A	153.97	21.4	0.419C
3	1	LEG PIPE 1.500x0.12	A572 GR. 50	1	1/2	N/A	N/A	N/A	4.233 3.719	4.233 3.719	2.500 2.500	105.5	17.5	N/A	N/A	7.55	4.0	0.509T
4	1	LEG PIPE 3.500x0.200	A572 GR. 50	4	7/8	N/A	N/A	N/A	2.500 2.500	2.500 2.500	2.500 2.500	52.6	129.3	N/A	N/A	153.97	21.4	0.378C
5	1	LEG PIPE 1.500x0.12	A572 GR. 50	1	1/2	N/A	N/A	N/A	4.233 3.719	4.233 3.719	2.500 2.500	94.7	11.5	N/A	N/A	7.55	3.8	0.621T
6	1	LEG PIPE 3.500x0.200	A572 GR. 50	4	7/8	N/A	N/A	N/A	2.500 2.500	2.500 2.500	2.500 2.500	52.6	129.3	N/A	N/A	153.97	21.4	0.311C
7	1	LEG PIPE 1.500x0.12	A572 GR. 50	1	1/2	N/A	N/A	N/A	4.233 3.719	4.233 3.719	2.500 2.500	105.5	17.5	N/A	N/A	7.55	3.6	0.454T
8	1	LEG PIPE 3.500x0.200	A572 GR. 50	4	7/8	N/A	N/A	N/A	2.500 2.500	2.500 2.500	2.500 2.500	52.6	129.3	N/A	N/A	153.97	21.4	0.319C
9	1	LEG PIPE 1.500x0.12	A572 GR. 50	1	1/2	N/A	N/A	N/A	4.233 3.719	4.233 3.719	2.500 2.500	105.5	17.5	N/A	N/A	7.55	3.6	0.429T
10	1	LEG PIPE 3.500x0.200	A572 GR. 50	4	7/8	N/A	N/A	N/A	2.500 2.500	2.500 2.500	2.500 2.500	52.6	129.3	N/A	N/A	153.97	21.4	0.320C
11	1	LEG PIPE 1.500x0.12	A572 GR. 50	1	1/2	N/A	N/A	N/A	4.233 3.719	4.233 3.719	2.500 2.500	105.5	17.5	N/A	N/A	7.55	3.6	0.329T
12	1	LEG PIPE 3.500x0.200	A572 GR. 50	4	7/8	N/A	N/A	N/A	2.500 2.500	2.500 2.500	2.500 2.500	52.6	129.3	N/A	N/A	153.97	21.4	0.320C
13	1	LEG PIPE 1.500x0.12	A572 GR. 50	1	1/2	N/A	N/A	N/A	4.233 3.719	4.233 3.719	2.500 2.500	105.5	17.5	N/A	N/A	7.55	3.6	0.329T
14	1	LEG PIPE 3.500x0.200	A572 GR. 50	4	7/8	N/A	N/A	N/A	2.500 2.500	2.500 2.500	2.500 2.500	52.6	129.3	N/A	N/A	153.97	21.4	0.329C
15	1	LEG PIPE 1.500x0.12	A572 GR. 50	1	1/2	N/A	N/A	N/A	4.233 3.719	4.233 3.719	2.500 2.500	105.5	17.5	N/A	N/A	7.55	3.6	0.329T
16	1	LEG PIPE 3.500x0.200	A572 GR. 50	4	7/8	N/A	N/A	N/A	2.500 2.500	2.500 2.500	2.500 2.500	52.6	129.3	N/A	N/A	153.97	21.4	0.329C
17	1	LEG PIPE 1.500x0.12	A572 GR. 50	1	1/2	N/A	N/A	N/A	4.233 3.719	4.233 3.719	2.500 2.500	105.5	17.5	N/A	N/A	7.55	3.6	0.329T
18	1	LEG PIPE 3.500x0.200	A572 GR. 50	4	7/8	N/A	N/A	N/A	2.500 2.500	2.500 2.500	2.500 2.500	52.6	129.3	N/A	N/A	153.97	21.4	0.329C
19	1	LEG PIPE 1.500x0.12	A572 GR. 50	1	1/2	N/A	N/A	N/A	4.233 3.719	4.233 3.719	2.500 2.500	105.5	17.5	N/A	N/A	7.55	3.6	0.329T
20	1	LEG PIPE 3.500x0.200	A572 GR. 50	4	7/8	N/A	N/A	N/A	2.500 2.500	2.500 2.500	2.500 2.500	52.6	129.3	N/A	N/A	153.97	21.4	0.329C

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CUSTOMER STATE OF WEST VIRGINIA

PROJECT 280' 80' TOWER

SITE Various

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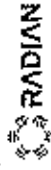
DATE Jun 1 2006

FILE NO. Q6-050-0593

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**SECTION P : MEMBER CAPACITIES AND ASSESSMENT (Cont.)**

Section Description	Tag	Member/Description	Elem	Welds		End Stat. (in)	End Stat. (ft)	Depth (in)	Section Angle		Mom. Inertia (in <sup>4</sup> )	Conn. Len (ft)	S/F	Capacities (kips)			Vol. (cu ft)	Max. Comp. Stress (ksi)	Ratio
				Size (in)	Weld				Flange	Web				Section	Block Shear	Tension			
4	P109	PIPE 3.500x0.300	A572 GF.50	1	1/2	N/A	N/A	4.233	N/A	N/A	N/A	103.7	4.6	8.8	4.8	7.95	1.2	0.255C	
																			P110
	P111	PIPE 1.500x0.058	A572 GF.42	1	1/2	N/A	N/A	4.233	N/A	N/A	103.7	4.6	8.8	4.8	7.95	1.0	0.210C		
																		P112	PIPE 3.500x0.300
	P113	PIPE 1.500x0.058	A572 GF.42	1	1/2	N/A	N/A	4.233	N/A	N/A	103.7	4.6	8.8	4.8	7.95	0.9	0.107C		
																		P114	PIPE 3.500x0.300
	P115	PIPE 1.500x0.058	A572 GF.42	1	1/2	N/A	N/A	4.233	N/A	N/A	103.7	4.6	8.8	4.8	7.95	0.9	0.187C		
																		P116	PIPE 3.500x0.300
	P117	PIPE 1.500x0.058	A572 GF.42	1	1/2	N/A	N/A	4.233	N/A	N/A	103.7	4.6	8.8	4.8	7.95	0.9	0.187C		
																		P118	PIPE 3.500x0.300
5	P119	PIPE 3.500x0.300	A572 GF.50	1	1/2	N/A	N/A	4.233	N/A	N/A	103.7	4.6	8.8	4.8	7.95	1.0	0.222C		
																		P120	PIPE 1.500x0.058
	P121	PIPE 3.500x0.300	A572 GF.50	4	7/8	N/A	N/A	2.500	N/A	N/A	32.6	96.4	120.8	N/A	153.97	0.0	0.941C		
																		P122	PIPE 1.500x0.058
	P123	PIPE 3.500x0.300	A572 GF.50	4	7/8	N/A	N/A	2.500	N/A	N/A	32.6	96.4	120.8	N/A	153.97	0.0	0.953C		
																		P124	PIPE 1.500x0.058
	P125	PIPE 3.500x0.300	A572 GF.50	4	7/8	N/A	N/A	2.500	N/A	N/A	52.6	96.4	120.8	N/A	153.97	0.0	0.956C		
																		P126	PIPE 1.500x0.058
	P127	PIPE 3.500x0.300	A572 GF.50	4	7/8	N/A	N/A	2.500	N/A	N/A	32.6	96.4	120.8	N/A	153.97	0.0	0.938C		
																		P128	PIPE 1.500x0.058



CUSTOMER STATE OF WEST VIRGINIA  
 PROJECT 280' 80 TOWER  
 SITE VARIOUS

NAME  
 ROBB

DATE  
 JUN 1 2006


FILE NO.  
 06-060-0583

PAGE P 12

Section F : MEMBER CAPACITIES AND ASSESSMENT (cont.)

Section Description	MS	Member/Description	Grade	Bolts		End Met. (kg)	End Met. (lbs)	Topo Dist. (ft)	Topo Dist. (in)	Debit Progs		Tensile (kg)	Tensile (lbs)	W/L	Capacities (kips)			Maxium Load (kips)	Status																											
				Qty	Size (in)					Splicing (kips)	Ends (kips)				Compressive	Tension	Shear			Dist. (ft or in)	Dist. (ft or in)																									
6	1	PIPE 1.500x0.058	A572 gr. 50	1/2	N/A	N/A	N/A	N/A	N/A	N/A	4,233	9,319	103.7	4.6	97.7	4.8	1.50	1.8	0.385C																											
																				1	A372 gr. 50	7/8	N/A	N/A	2,500	5,512	52.6	26.4	N/A	N/A	153.97	0.9	0.931C													
																																		1	A572 gr. 50	1/2	N/A	N/A	3,713	8,233	103.7	4.6	97.7	4.8	2.0	0.486C
7	1	PIPE 1.500x0.058	A572 gr. 50	1/2	N/A	N/A	N/A	N/A	N/A	N/A	4,233	9,319	103.7	4.6	97.7	4.8	1.50	1.8	0.385C																											
																				1	A372 gr. 50	7/8	N/A	N/A	2,500	5,512	52.6	26.4	N/A	N/A	153.97	0.9	0.931C													
																																		1	A572 gr. 50	1/2	N/A	N/A	3,713	8,233	103.7	4.6	97.7	4.8	2.0	0.486C
8	1	PIPE 1.500x0.058	A572 gr. 50	1/2	N/A	N/A	N/A	N/A	N/A	N/A	4,233	9,319	103.7	4.6	97.7	4.8	1.50	1.8	0.385C																											
																				1	A372 gr. 50	7/8	N/A	N/A	2,500	5,512	52.6	26.4	N/A	N/A	153.97	0.9	0.931C													
																																		1	A572 gr. 50	1/2	N/A	N/A	3,713	8,233	103.7	4.6	97.7	4.8	2.0	0.486C


PRELIMINARY DESIGN

 <b>RADIAN</b>	<b>NAME</b> ROBB	<b>DATE</b> Jun 1 2006	<b>FILE NO.</b> 05-060-0583
<b>CUSTOMER</b> STATE OF WEST VIRGINIA			<b>PAGE</b> 01
<b>PROJECT</b> 280' 00 TOWER			
<b>SITE</b> Various			

Section Q : GUY TENSIONS

Guy Level	Elevation (ft)	Guy Type	Guy Diameter (in.)	Initial Tension (Kips)	Breaking Strength (Kips)	Maximum Tension (Kips)	Safety Factor	Admissible Safety Factor
1	60.00	EH	0.5625	3.50	35.00	16.60N	2.11	2.000
2	123.00	EH	0.6250	4.24	42.40	19.90N	2.13	2.000
3	197.00	EH	0.5625	3.50	35.00	15.80N	2.22	2.000
4	257.00	EH	0.7500	5.83	58.30	22.70N	2.57	2.000

PRELIMINARY NOT FOR CONSTRUCTION


 <b>RADIAN</b>		NAME ROBB	DATE Jan 1 2006	FILE NO. 06-060-0583
CUSTOMER	STATE OF WEST VIRGINIA			PAGE 51
PROJECT	280' 80 TOWER			
SITE	Various			

Section 5 : ANTENNA DISPLACEMENTS

Elevat. (ft)	Azi. (deg)	Beam Deflections (deg)			Total
		Roll	Yaw	Pitch	
279.99	0.00	-0.0881	0.427E	-0.078G	0.432E
275.97	0.00	-0.0881	0.427E	-0.077G	0.433E
269.98	0.00	-0.0831	0.416E	-0.068G	0.421E
263.98	0.00	-0.0731	0.398E	-0.054G	0.402E
259.97	0.00	-0.0731	0.398E	-0.054G	0.402E
259.97	180.00	0.0591	0.381E	0.043E	0.383E
259.97	0.00	-0.0591	0.381E	-0.043E	0.383E
256.99	0.00	-0.0451	0.361E	-0.041D	0.362E
214.99	0.00	0.029E	0.192E	0.021A	0.192E
203.97	0.00	0.035E	0.176E	0.022A	0.176E
203.97	0.00	0.035E	0.176E	0.022A	0.176E
200.13	0.00	0.031E	0.169E	0.018A	0.169E
200.13	180.00	-0.031E	0.169E	-0.018A	0.169E
196.85	0.00	0.024E	0.160E	0.025G	0.160E
152.97	0.00	0.068E	0.266E	0.075A	0.269E
144.98	0.00	-0.099J	0.301E	0.114R	0.308E
144.98	0.00	-0.099J	0.301E	0.114R	0.308E
139.99	0.00	-0.105J	0.306E	0.122R	0.314E
139.99	180.00	0.105J	0.306E	-0.122R	0.314E
123.00	0.00	-0.075J	0.193E	0.094A	0.201E
104.99	0.00	-0.060J	0.243E	0.074A	0.247E
85.30	0.00	0.087D	0.2711	0.101A	0.2781
85.30	0.00	0.087D	0.2711	0.101A	0.2781
79.99	180.00	-0.094D	0.2921	-0.110R	0.2991
79.99	0.00	0.094D	0.2921	0.110R	0.2991
49.97	0.00	0.081D	0.1691	0.100A	0.1771

Maximum Antenna Displacements for Serviceability State.

PRELIMINARY NOT FOR CONSTRUCTION

 <b>RADIAN</b>		NAME ROBB	DATE Jun 1 2006	FILE NO. Q6-060-0583
CUSTOMER STATE OF WEST VIRGINIA				PAGE 21
PROJECT 280' 80 TOWER				
SITE Various				

**Section T : FOUNDATION LOADS**

**Anchor Loads**

Anchor Azimuth	Anchor Radius (ft)	Horiz. Load (Kips)	Vert. Load (Kips)	Axial Load (Kips)	Angle
0.00	90.00	32.20-N	42.50-N	53.30-N	52.800-N
120.00	90.00	32.30-R	42.30-R	53.00-R	52.900-R
240.00	90.00	32.00-T	42.30-T	53.00-T	52.900-T
0.00	220.00	47.30-W	56.70-W	73.80-W	50.200-W
120.00	220.00	46.40-Q	55.80-Q	72.60-Q	50.200-Q
240.00	220.00	46.50-U	55.80-U	72.70-U	50.200-U

**Base Reactions**

Reaction (Kips)	Shear N-S (Kips)	Shear E-W (Kips)	Moment N-S (Kipsft)	Moment E-W (Kipsft)	Torsion (Kipsft)
262.46-S	1.03-S	1.09-E	0.00-R	0.00-Q	1.59-I

THIS DRAWING NOT FOR CONSTRUCTION

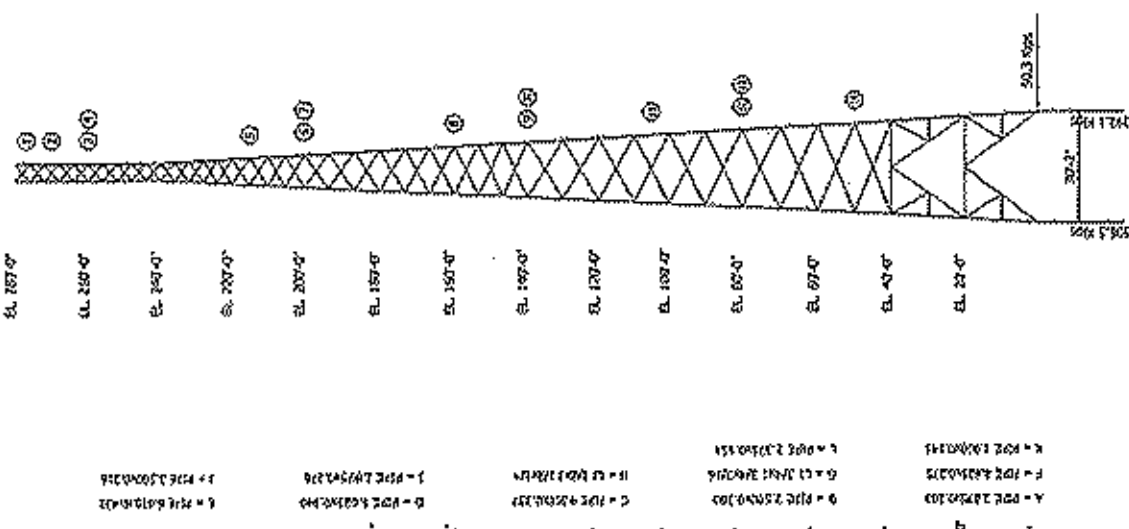
DESIGN PRESENTATION: 04-22-17  
 DATE: 11/17/17  
 DRAWING NO.: 17-100

FILE NO:  
 Q9-069-0583

NO.	DESCRIPTION	QTY	ELEVATION	SIZE	QTY	ADJUST	COMMENTS	STATUS
1	21.5x21.5x10.5	1	277'-0"	1	0			
2	21.5x21.5x10.5	1	277'-0"	1	0			
3	18x6	1	249'-0"	2	180			
4	18x6	1	249'-0"	2	0			
5	21.5x21.5x10.5	1	233'-0"	1	0			
6	18x6	1	207'-0"	2	0			
7	18x6	1	207'-0"	2	0			
8	21.5x21.5x10.5	1	189'-0"	1	0			
9	18x6	1	189'-0"	2	0			
10	18x6	1	189'-0"	2	0			
11	21.5x21.5x10.5	1	107'-0"	1	0			
12	18x6	1	107'-0"	2	0			
13	18x6	1	55'-0"	2	0			
14	21.5x21.5x10.5	1	50'-0"	1	0			

SPRING CONDITIONS, ADJUSTED, CENTER

PRELIMINARY - NOT FOR CONSTRUCTION



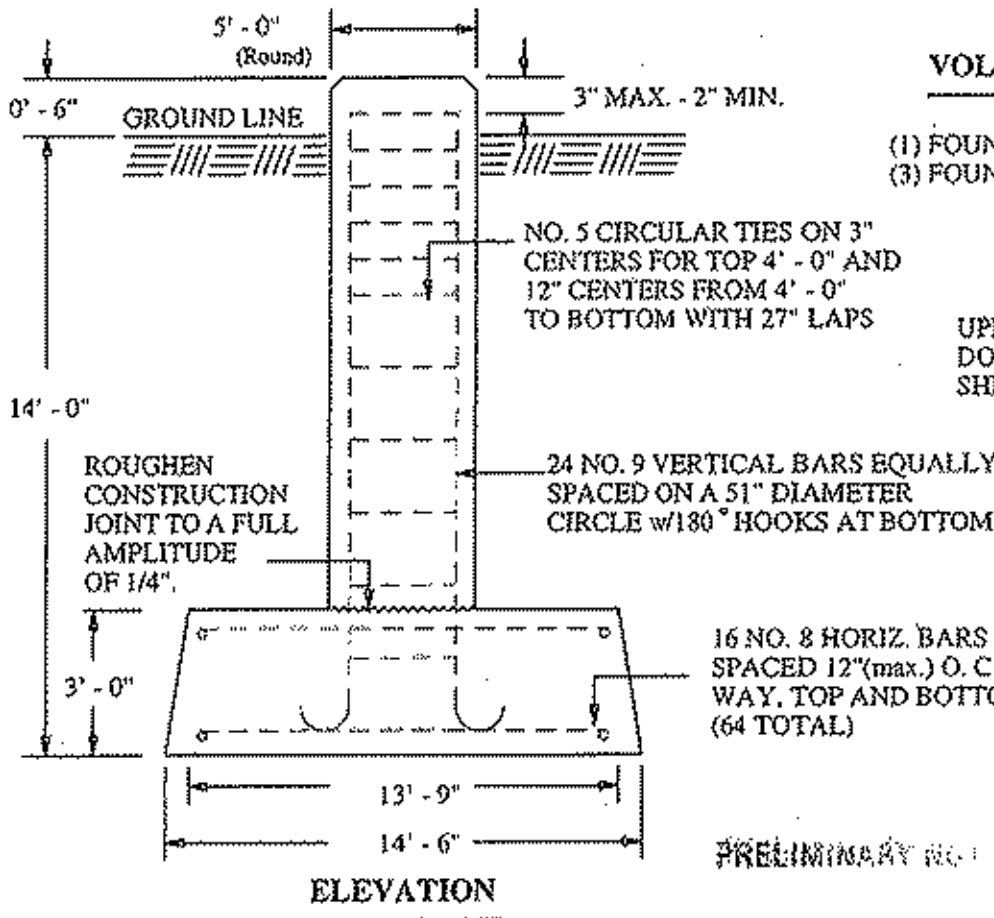
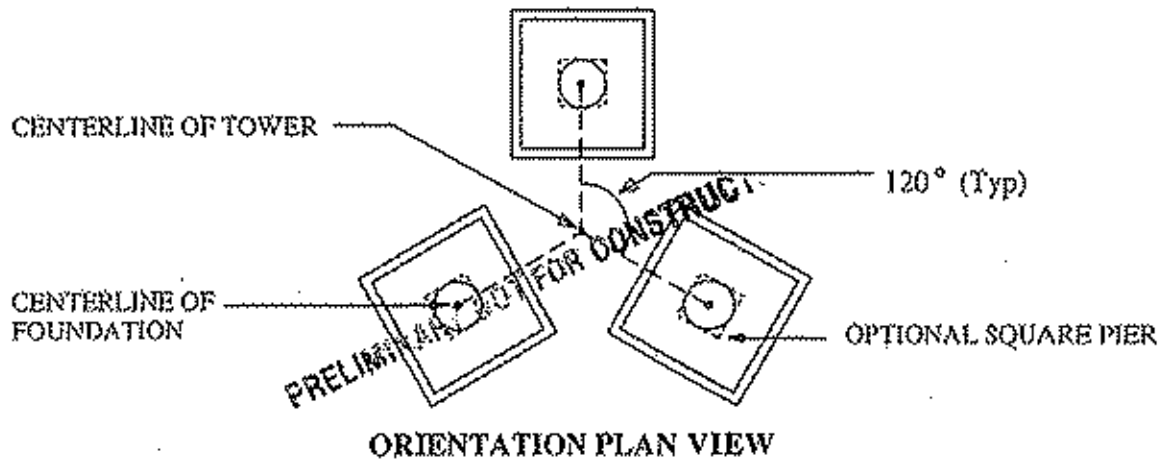
SPAN	SPAN LENGTH	PIER	PIER WIDTH	PIER HEIGHT	PIER AREA	PIER VOLUME	PIER WEIGHT	PIER MOMENT	PIER STIFFNESS	PIER PERIOD	PIER DRAINAGE	PIER PROTECTION	PIER MAINTENANCE	PIER REPAIR	PIER REPLACEMENT	PIER DEMOLITION	PIER DISPOSAL	PIER RECYCLING	PIER REUSE
1	107'-0"	1	21.5'	10.5'	226.125	2373.375	1186.6875	1186.6875	1186.6875	1186.6875	1186.6875	1186.6875	1186.6875	1186.6875	1186.6875	1186.6875	1186.6875	1186.6875	1186.6875
2	189'-0"	2	21.5'	10.5'	452.25	4746.75	2373.375	2373.375	2373.375	2373.375	2373.375	2373.375	2373.375	2373.375	2373.375	2373.375	2373.375	2373.375	2373.375
3	207'-0"	3	21.5'	10.5'	452.25	4746.75	2373.375	2373.375	2373.375	2373.375	2373.375	2373.375	2373.375	2373.375	2373.375	2373.375	2373.375	2373.375	2373.375

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State of New Jersey  
 207 837  
 Elizabeth, NJ

DATE: 11/17/17  
 DRAWN: [Name]  
 CHECKED: [Name]  
 PROJECT NO.: [Number]

NOTE : SEE TOWER ASSEMBLY DRAWING FOR FOUNDATION LAYOUT AND ANCHORAGE EMBEDMENT DRAWING NUMBER. SEE DRAWING NUMBER B841300 FOR GENERAL FOUNDATION NOTES.



**VOLUME OF CONCRETE**

(for round piers)

(1) FOUNDATION	30.5	Cu. Yds.
(3) FOUNDATIONS	91.5	Cu. Yds.

**REACTIONS**

UPLIFT	=	392.1	KIPS
DOWNLOAD	=	505.5	KIPS
SHEAR	=	50.3	KIPS

NO. 5 CIRCULAR TIES ON 3" CENTERS FOR TOP 4' - 0" AND 12" CENTERS FROM 4' - 0" TO BOTTOM WITH 27" LAPS

24 NO. 9 VERTICAL BARS EQUALLY SPACED ON A 51" DIAMETER CIRCLE w/180° HOOKS AT BOTTOM

16 NO. 8 HORIZ. BARS EQUALLY SPACED 12"(max.) O. C. EACH WAY, TOP AND BOTTOM. (64 TOTAL)

PRELIMINARY NOT FOR CONSTRUCTION

No. ▲ Revision Description

▲ Date ▲ Rev By ▲ Ckd By ▲ Appd By

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**RADIAN**

Scale: NONE	By	Date
Drawn: DWG		05/16/06
Checked:		
App. Eng.:		

Title: **Pier and Pad Foundation Detail**  
for  
**Normal Soil per ANSI/TIA/EIA-222-F**

ENG. FILE:

DRAWING NO.:



# Foundation General Notes

1. Foundation Design has been developed in accordance with generally accepted professional engineering principles and practices within the limits of the subsurface data provided. Foundation design modifications may be required in the event the following design parameters are not applicable for the subsurface conditions encountered.
  - A. Uplift angle with vertical = 30.0 degrees.
  - B. Allowable net horizontal pressure = 400 psf/ft.
  - C. Ground water table below depth of foundation.
2. Work shall be in accordance with local codes, safety regulations and unless otherwise noted, the latest revision of ACI 318, "Building Code Requirements for Reinforced Concrete". Procedures for the protection of excavations, existing construction and utilities shall be established prior to foundation installation.
3. Concrete materials shall conform to the appropriate state requirements for exposed structural concrete.
4. Proportions of concrete materials shall be suitable for installation method utilized and shall result in durable concrete for resistance to local anticipated aggressive actions. The durability requirements of ACI 318 Chapter 4 shall be satisfied based on the conditions expected at the site. As a minimum, concrete shall develop a minimum compressive strength of 3000 psi (20.7 MPa) in 28 days.
5. Maximum size of aggregate shall not exceed size suitable for the installation method utilized or 1/3 clear distance behind or between reinforcing. Maximum size may be increased to 2/3 clear distance provided workability and methods of consolidation such as vibrating will prevent honeycombs or voids.
6. Reinforcement shall be deformed and conform to the requirements of ASTM A615 grade 60 unless otherwise noted. Splices in reinforcement shall not be allowed unless otherwise indicated.
7. Welding is prohibited on reinforcing steel and embedments.
8. Minimum concrete cover for reinforcement shall be 3 inches (76 mm) unless otherwise noted. Approved spacers shall be used to insure a 3 inch (76 mm) minimum cover on reinforcement.
9. Foundation design assumes structural backfill to be compacted in 8 inch (200 mm) maximum layers to 95% of maximum dry density at optimum moisture content in accordance with ASTM D698. Additionally, structural backfill must have a minimum compacted unit weight of 100 lb./cu.ft. (15.7 kn/m<sup>3</sup>).
10. Foundation design has been based on geotechnical report no. 1-05-01323-EA dated 10/05/05 by Geotechnologies, Inc.
11. Foundation depth indicated is based on the grade line described in the referenced geotechnical report. Foundation modification may be required in the event cut or fill operations have taken place subsequent to the geotechnical investigation.
12. Foundation design assumes the recommendations in the referenced geotechnical report concerning verification of subsurface conditions are implemented prior to placement of concrete.
13. Foundation installation shall be supervised by personnel knowledgeable and experienced with

the proposed foundation type. Construction shall be in accordance with generally accepted installation practices.

14. Foundation design assumes installation procedures will incorporate the procedures recommended in the referenced geotechnical report.
15. Foundation design assumes field inspections will be performed to verify that construction materials, installation methods and assumed design parameters are acceptable based on conditions existing at the site.
16. For foundation and anchor tolerances see drawing A810214.
17. Loose material shall be removed from bottom of excavation prior to concrete placement. Sides of excavation shall be rough and free of loose cuttings.
18. Concrete shall be placed in a manner that will prevent segregation of concrete materials, infiltration of water or soil and other occurrences which may decrease the strength or durability of the foundation.
19. Foundation design assumes continuous concrete placement without construction joints.
20. The portion of all steel anchors, from top of anchor block to ground level, shall be coated with bitumen. Design assumes periodic inspections will be performed over the life of the structure to determine if additional anchor corrosion protection measures must be implemented based on observed site-specific conditions.
21. Grading may be required to provide proper drainage away from anchors and to maintain 6 inch (152mm) minimum clearance to equalizer plate.
22. Depth of anchor block shown on drawing must be maintained at all points within an area defined by the plan dimensions of the anchor block plus a horizontal distance in each direction equal to the specified anchor block depth below grade. Fill, when required, shall meet the compaction requirements specified for structural backfill.

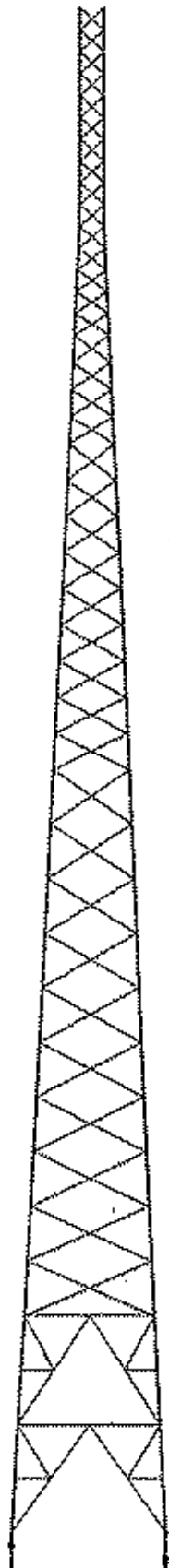
<b>RADIAN</b>	NAME Aaron	DATE May 15 2006	FILE NO. 06-060-0503
CUSTOMER State of West Virginia PROJECT 280' ESV SITE Kabawha, WV			PAGE 0

**PRELIMINARY NOT FOR CONSTRUCTION**

Section	Hgt ft	Elev. ft	Width ft
R-6N185	20.00	280.00	4.649
R-6N468	20.00	260.00	4.692
R-7N652	20.00	240.00	4.760
R-8N387	20.00	220.00	6.831
R-9N379	20.00	200.00	8.829
R-10N330	20.00	180.00	10.919
R-11N302	20.00	160.00	12.920
R-12N95	20.00	140.00	14.990
R-13N111	20.00	120.00	16.991
R-14N72	20.00	100.00	18.999
R-15N114	20.00	80.00	21.001
R-16N142NW	20.00	60.00	23.159
R-17N162	20.00	40.00	25.331
R-18N119	20.00	20.00	27.631

Bottom Width ft: 30.180

DESIGN SPEC.: NIA-222-F  
 TOWER HEIGHT: 280.00 (ft)  
 BASIC WIND SPEED: 80.43 (mph)  
 RADIAL ICE: 0.50 (in)  
 OPER. WIND SPEED: 50.00 (mph)




CROSS SECTION



Dwn: 695.54 (Kips)

Shr: 50.29 (Kips)  
Up: 292.97 (Kips)


 <b>RADIAN</b>	NAME ARON	DATE May 15 2006	FILE NO. 06-060-0583
CUSTOMER State of West Virginia			PAGE 01
PROJECT 280' SSV			
SITE Kanawha, WV			

Section D : STRUCTURE MASS DATA

Section Descript.	Legs Mass (lbs)	Bracings Mass (lbs)	Red. Mass (lbs)	Total (lbs)
R-6N185	416.56	467.07	0.00	906.08 *
R-6N468	739.75	712.94	0.00	1419.79 *
R-7N652	1082.27	811.88	0.00	1893.74 *
R-8N187	1499.39	856.33	0.00	2269.93 *
R-9N379	1499.63	1043.22	0.00	2680.78 *
R-10N330	1645.27	1195.62	0.00	3059.97 *
R-11N302	2064.22	1636.75	0.00	4411.30 *
R-12N95	2382.37	1562.49	0.00	4700.18 *
R-13N111	3131.62	1958.53	0.00	5661.30 *
R-14N72	3131.59	2127.16	0.00	5811.29 *
R-15N114	3132.44	2850.03	0.00	6774.69 *
R-16NH42MW	3952.73	3083.68	0.00	8009.26 *
R-16N162	3955.24	1872.02	1209.37	7017.46 *
R-16N119	3954.04	2129.12	1562.05	8214.29 *
<b>Total</b>	<b>32587.14</b>	<b>22306.84</b>	<b>2771.42</b>	<b>62730.16</b>

Note: Section weights of Standard Sections (the rightmost column) are exact and they are marked with an asterix (\*).  
 Remaining weights are approximate and the sum of horizontal and vertical totals may not add up to the same value.


**PRELIMINARY NOT FOR CONSTRUCTION**

 <b>RADIAN</b>	<b>NAME</b> AARON	<b>DATE</b> May 15 2006	<b>FILE NO.</b> 06-060-0503
<b>CUSTOMER</b> State of West Virginia <b>PROJECT</b> 280' 55V <b>SITE</b> Kanawha, WV			<b>PAGE</b> 51

Section E : WIND CODE DATA to SIA-222-F

Basic Wind Speed: 80.43 (mph)  
 Ice Thickness: 0.50 (in)  
 Ice Density: 56.18 (lbs/ft<sup>3</sup>)  
 Operational wind speed: 50.00 (mph)  
 Wind and Ice Reduction Factor: 0.75  
 Elev. above ground: 0.00 (ft)  
 Tower Azimuth: 0.0 (deg)  
 Value of Kz always 2.58: No  
 Method of Analysis: Plain Analysis  
  
 Loading Cases Considered:  
 Wind only Yes  
 Wind and Ice Yes  
 Wind only serviceability Yes  
  
 Start Wind Direction: 0.00 deg.  
 End Wind Direction: 330.00 deg.  
 Increment Wind Direction: 30.00 deg.  
  
 Member Capacity Assumptions:  
 Increase Allowable Stress: Yes  
 Single-Braced Welded SR Diagonals: Continuous Bent Rod


PRELIMINARY NOT FOR CONSTRUCTION

 <b>RADIAN</b>		<b>NAME</b> Aaron	<b>DATE</b> May 15 2006	<b>FILE NO.</b> 06-060-0583
<b>CUSTOMER</b> State of West Virginia				<b>PAGE</b> 61
<b>PROJECT</b> 280' SSV				
<b>SITE</b> Kanawha, WV				

Section F : WIND PRESSURE DISTRIBUTION DATA to EIA-222-F

Elevation (ft)	Wind Pressure (qz*G) (psf)
280.00	33.34
276.00	33.20
272.00	33.06
268.00	32.92
264.00	32.78
260.00	32.64
256.00	32.49
252.00	32.35
248.00	32.20
244.00	32.05
240.00	31.90
236.00	31.75
232.00	31.59
228.00	31.44
224.00	31.28
220.00	31.12
215.00	30.91
210.00	30.71
205.00	30.49
200.00	30.28
192.33	29.99
186.67	29.69
180.00	29.38
173.33	29.07
166.67	28.74
160.00	28.41
153.33	28.07
146.67	27.71
140.00	27.35
130.00	26.77
120.00	26.17
110.00	25.53
100.00	24.84
90.00	24.10
80.00	23.31
70.00	22.43
60.00	21.47
50.00	20.38
40.00	19.12
20.00	18.07


PRELIMINARY NOT FOR CONSTRUCTION

 <b>RADIAN</b>		<b>NAME</b> haxon	<b>DATE</b> May 15 2006	<b>FILE NO.</b> 06-060-0583
<b>CUSTOMER</b> State of West Virginia <b>PROJECT</b> 280' SSV <b>SIZE</b> Kanawha, WV				<b>PAGE</b> 11

Section I : ANTENNA DATA

No.	Elev. (ft)	Type	Azi.	Radius (ft)	Ori.	Ant Qty	Mount Type	Mount Radius (ft)	Mount Azi.	Mount Att. Azi	Mount Elev. (ft)
1	260.00	HP6	0.0	3.50	0.0	1	{None}	0.00	0.0	0.0	0.00
2	260.00	HP6	180.0	3.50	120.0	1	{None}	0.00	0.0	0.0	0.00
3	200.00	HP6	180.0	6.00	240.0	1	{None}	0.00	0.0	0.0	0.00
4	200.00	HP6	0.0	6.00	0.0	1	{None}	0.00	0.0	0.0	0.00
5	140.00	HP8	180.0	9.00	120.0	1	{None}	0.00	0.0	0.0	0.00
6	140.00	HP8	0.0	9.00	0.0	1	{None}	0.00	0.0	0.0	0.00
7	80.00	HP8	0.0	13.00	0.0	1	{None}	0.00	0.0	0.0	0.00
8	80.00	HP8	180.0	13.00	240.0	1	{None}	0.00	0.0	0.0	0.00

PRELIMINARY NOT FOR CONSTRUCTION

 <b>RADIAN</b>	NAME Axon	DATE May 15 2006	FILE NO. Q6-060-0583
CUSTOMER State of West Virginia			PAGE 31
PROJECT 280' SSV			
SITE Kanawha, WV			

Section J : TRANSMISSION LINE DATA

Transmission Lines Position


No.	Bot El (ft)	Top El (ft)	Desc.	No.	Azim.	Radius (ft)	Orient.	Dist. (in)	Vert.	Part of Face	Shielded
1	0.00	200.00	LDF2-50	1	0.00	17.50	0.00	2.5591	No	No	No
2	0.00	277.00	LDF7P-50A	12	60.00	8.83	55.00	2.5591	No	Yes-Outside	No
3	0.00	270.00	LDF5P-50A	2	60.00	8.82	67.00	2.5591	No	Yes-Outside	No
4	0.00	260.00	LDF7P-50A	1	60.00	8.93	70.00	2.5591	No	Yes-Outside	No
5	0.00	260.00	LDF7P-50A	8	60.00	8.66	55.00	2.5591	No	No	Yes
6	0.00	215.00	LDF5P-50A	2	60.00	8.68	63.00	2.5591	No	No	Yes
7	0.00	200.00	LDF7P-50A	5	60.00	8.76	70.00	2.5591	No	No	Yes
8	0.00	200.00	LDF7P-50A	4	180.00	8.93	170.00	2.5591	No	Yes-Outside	No
9	0.00	140.00	LDF7P-50A	9	180.00	8.80	180.00	2.5591	No	Yes-Outside	No
10	0.00	160.00	LDF5P-50A	2	180.00	8.89	190.00	2.5591	No	Yes-Outside	No
11	0.00	80.00	LDF7P-50A	9	180.00	8.63	180.00	2.5591	No	No	Yes
12	0.00	105.00	LDF5P-50A	2	180.00	8.80	170.00	2.5591	No	No	Yes
13	0.00	50.00	LDF5P-50A	2	180.00	8.80	190.00	2.5591	No	No	Yes
14	0.00	200.00	RCO.75-Cnd	2	0.00	16.00	0.00	2.5591	No	No	No

Transmission Lines Details

No.	Desc.	Width (in)	Depth (in)	Unit Wgt (lb/ft)
1	LDF2-50	0.43	0.43	0.08
2	LDF7P-50A	2.01	2.01	0.92
3	LDF5P-50A	1.10	1.10	0.33
4	LDF7P-50A	2.01	2.01	0.92
5	LDF7P-50A	2.01	2.01	0.92
6	LDF5P-50A	1.10	1.10	0.33
7	LDF7P-50A	2.01	2.01	0.92
8	LDF7P-50A	2.01	2.01	0.92
9	LDF7P-50A	2.01	2.01	0.92
10	LDF5P-50A	1.10	1.10	0.33
11	LDF7P-50A	2.01	2.01	0.92
12	LDF5P-50A	1.10	1.10	0.33
13	LDF5P-50A	1.10	1.10	0.33
14	RCO.75-Cnd	1.05	1.05	1.09

PRELIMINARY NOT FOR CONSTRUCTION



 <b>RADIAN</b>	NAME Aaron	DATE May 15 2006	FILE NO. Q6-060-0583
CUSTOMER State of West Virginia PROJECT 280' SBV SITE Kanawha, WV			PAGE K1

Section K : LADDER DATA


Ladder Position

No.	Bot El (ft)	Top El (ft)	Width (in)	Height (in)	Az.	Radius (ft)	Orient.	Vertical	Part of Face
1	0.00	280.00	32.00	48.00	60.00	0.71	60.00	False	True
2	0.00	280.00	32.00	48.00	180.00	0.71	180.00	False	True

Ladder Details

No.	Runq Desc.	Rail Desc.
1	L1 1/2x1 1/2x1/8	L1 1/2x1 1/2x1/8
2	L1 1/2x1 1/2x1/8	L1 1/2x1 1/2x1/8

PRELIMINARY NOT FOR CONSTRUCTION

 <b>RADIAN</b>	<b>NAME</b> Aaron	<b>DATE</b> May 15 2006	<b>FILE NO.</b> Q6-060-0583
<b>CUSTOMER</b> State of West Virginia			<b>PAGE</b> N1
<b>PROJECT</b> 280' SSV			
<b>SITE</b> Kanawha, WV			

Section N : POINT LOAD DATA

No.	Description	Elev. (ft)	Azim.	Radius (ft)	Area (ft <sup>2</sup> )		Weight (Kips)		Ant ?	Depth/ Width	Ant. Azi.
					Bare	Iced	Bare	Iced			
1	12-4'x1'pane	277.00	0.0	1.00	70.00	120.00	2.20	4.40	Yes	0.000	0.0
2	2-whips+6'SA	270.00	60.0	6.00	24.00	36.00	0.30	0.50	Yes	0.000	0.0
3	ICE SHIELD	260.00	0.0	4.00	16.00	20.00	1.00	2.00	No	0.000	0.0
4	ICE SHIELD	260.00	120.0	4.00	16.00	20.00	1.00	2.00	No	0.000	0.0
5	2-whips+6'SA	215.00	180.0	8.62	24.00	36.00	0.30	0.50	Yes	0.000	0.0
6	ICE SHIELD	200.00	120.0	6.00	16.00	20.00	1.00	2.00	No	0.000	0.0
7	ICE SHIELD	200.00	240.0	6.00	16.00	20.00	1.00	2.00	No	0.000	0.0
8	2-whips+6'SA	160.00	300.0	12.00	24.00	36.00	0.30	0.50	Yes	0.000	0.0
9	ICE SHIELD	140.00	0.0	10.00	16.00	20.00	1.00	2.00	No	0.000	0.0
10	ICE SHIELD	140.00	120.0	10.00	16.00	20.00	1.00	2.00	No	0.000	0.0
11	2-whips+6'SA	105.00	60.0	16.00	24.00	36.00	0.30	0.50	Yes	0.000	0.0
12	ICE SHIELD	80.00	0.0	13.00	16.00	20.00	1.00	2.00	No	0.000	0.0
13	ICE SHIELD	80.00	240.0	13.00	16.00	20.00	1.00	2.00	No	0.000	0.0
14	2-whips+6'SA	50.00	180.0	13.00	24.00	36.00	0.30	0.50	Yes	0.000	0.0
15	Dual Lights	280.00	0.0	0.00	5.00	5.00	0.30	0.40	No	0.000	0.0

**PRELIMINARY NOT FOR CONSTRUCTION**

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**RADIAN**

CUSTOMER State of West Virginia  
PROJECT 280' SSV  
SITE Kanawha, WV

NRMS  
Aaron

DATE  
May 15 2006

FILE NO.  
05-960-0583  
PAGE P 1

Section P : MEMBER CAPACITIES AND ASSESSMENT

Member Description	End	Start	Card	No.		Rc	Ecc	Icc	Dist.	Ecc	Dist.	Ecc	Dist.	Ecc	Dist.	CAPACITIES (MID)				Max Load (MID)	MID			
				1	2											Flex	Dist.	Comp.	Dist.			Comp.	Dist.	Comp.
1 Log PIPE 2.875x0.203 Dist. 11 3/4x1 3/4x3/16	A572 9x.50	N/A	N/A	N/A	N/A	N/A	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	4.000 3.599	45.6	56.7	69.0	N/A	N/A	N/A	0.2	0.210
2 Log PIPE 2.875x0.203 Dist. 11 3/4x1 3/4x3/16	A572 9x.50	N/A	N/A	N/A	N/A	N/A	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	4.000 3.599	101.1	10.6	13.8	6.0	6.8	12.35	0.7	0.1075
3 Log PIPE 2.875x0.203 Dist. 11 3/4x1 3/4x3/16	A572 9x.50	N/A	N/A	N/A	N/A	N/A	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	4.000 3.599	50.9	54.9	68.0	N/A	N/A	N/A	1.9	0.1020
4 Log PIPE 2.875x0.203 Dist. 11 3/4x1 3/4x3/16	A572 9x.50	N/A	N/A	N/A	N/A	N/A	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	4.000 3.599	101.2	10.6	13.8	6.0	6.8	12.35	2.2	0.3557
5 Log PIPE 2.875x0.203 Dist. 11 3/4x1 3/4x3/16	A572 9x.50	N/A	N/A	N/A	N/A	N/A	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	4.000 3.599	50.9	54.9	68.0	N/A	N/A	N/A	16.7	0.3000
6 Log PIPE 2.875x0.203 Dist. 11 3/4x1 3/4x3/16	A572 9x.50	N/A	N/A	N/A	N/A	N/A	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	4.000 3.599	101.6	10.6	13.8	6.0	6.8	12.35	3.3	0.6957
7 Log PIPE 2.875x0.203 Dist. 11 3/4x1 3/4x3/16	A572 9x.50	N/A	N/A	N/A	N/A	N/A	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	4.000 3.599	62.9	57.6	68.0	N/A	N/A	N/A	18.9	0.4190
8 Log PIPE 3.500x0.200 Dist. 12x2x1/4	A572 9x.50	N/A	N/A	N/A	N/A	N/A	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	4.000 3.599	21.4	37.5	21.7	9.8	9.1	32.35	6.6	0.7007
9 Log PIPE 3.500x0.200 Dist. 12x2x1/4	A572 9x.50	N/A	N/A	N/A	N/A	N/A	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	4.000 3.599	42.0	102.7	129.8	N/A	N/A	N/A	47.9	0.1660
10 Log PIPE 3.500x0.200 Dist. 12x2x1/4	A572 9x.50	N/A	N/A	N/A	N/A	N/A	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	4.000 3.599	51.5	19.6	21.7	9.8	9.1	12.35	6.8	0.7757
11 Log PIPE 3.500x0.200 Dist. 12x2x1/4	A572 9x.50	N/A	N/A	N/A	N/A	N/A	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	4.000 3.599	42.3	102.7	129.8	N/A	N/A	N/A	58.7	0.5700
12 Log PIPE 3.500x0.200 Dist. 12x2x1/4	A572 9x.50	N/A	N/A	N/A	N/A	N/A	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	4.000 3.599	91.7	13.5	21.7	9.8	9.1	12.35	7.4	0.7907
13 Log PIPE 3.500x0.200 Dist. 12x2x1/4	A572 9x.50	N/A	N/A	N/A	N/A	N/A	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	4.000 3.599	49.3	102.7	129.8	N/A	N/A	N/A	73.5	0.7140
14 Log PIPE 3.500x0.200 Dist. 12x2x1/4	A572 9x.50	N/A	N/A	N/A	N/A	N/A	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	4.000 3.599	91.8	17.5	21.7	9.8	9.1	12.35	7.6	0.6637
15 Log PIPE 3.500x0.200 Dist. 12x2x1/4	A572 9x.50	N/A	N/A	N/A	N/A	N/A	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	4.000 3.599	35.7	135.4	129.8	N/A	N/A	N/A	64.5	0.8090
16 Log PIPE 3.500x0.200 Dist. 12x2x1/4	A572 9x.50	N/A	N/A	N/A	N/A	N/A	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	4.000 3.599	92.0	17.5	21.7	9.8	9.1	12.35	8.3	0.9370
17 Log PIPE 4.500x0.237	A572 9x.50	N/A	N/A	N/A	N/A	N/A	1.260	1.260	1.260	1.260	1.260	1.260	1.260	1.260	1.260	4.000 3.599	29.2	160.3	176.6	N/A	N/A	N/A	96.6	0.6040

REVISIONS

FILE NO. 06-060-0583  
 DATE MAY 15 2006  
 NAME Maron  
 PROJECT 200' SSV  
 SITE Kanawha, WV

CUSTOMER State of West Virginia  
 PROJECT 200' SSV  
 SITE Kanawha, WV

PRELIMINARY NOT FOR CONSTRUCTION  
 PAGE P 2

Section P : MEMBER CAPACITIES AND ASSESSMENT (cont.)

Location	Member	Size	Sp.	Elev.	End Stat.	Top Stat.	Double Angle		Length	Wt.	Capacities (kip)				Minimum Load (kip)	Rating
							Sp.	Elev.			Compress.	Tension	Shear	Dist.		
R-0039T	1	1x4	1	5/8	0.928	1.060			6.379	95.6	21.7	9.1	12.30	5.7	3.0	0.549T
	2	1x4	1	5/8	0.928	1.060			5.434	32.6	176.4	N/A	N/A	199.9	86.1	0.555C
	3	1x4	1	5/8	0.928	1.060			5.796	99.6	21.7	9.1	12.35	4.7	5.2	0.531T
	4	1x4	1	5/8	0.928	1.060			5.808	103.7	21.7	9.1	12.35	5.1	6.5	0.502T
	5	1x4	1	5/8	0.928	1.060			4.007	32.6	176.4	N/A	N/A	118.3	97.1	0.750C
	6	1x4	1	5/8	0.928	1.060			4.016	107.9	21.7	9.1	12.35	4.4	4.0	0.527T
	7	1x4	1	5/8	0.928	1.060			7.387	21.5	176.4	N/A	N/A	123.9	102.1	0.261C
	8	1x4	1	5/8	0.928	1.060			6.531	112.1	21.7	9.1	12.35	4.8	1.3	0.478T
	9	1x4	1	5/8	0.928	1.060			4.007	30.0	248.4	N/A	N/A	132.1	105.0	0.597C
	10	1x4	1	5/8	0.928	1.060			3.369	122.3	21.7	9.1	12.35	4.7	5.0	0.557T
R-0039S	1	1x4	1	5/8	0.928	1.060			6.008	32.7	248.4	N/A	N/A	130.7	113.9	0.636C
	2	1x4	1	5/8	0.928	1.060			5.020	129.9	21.7	9.1	12.35	5.2	4.7	0.517T
	3	1x4	1	5/8	0.928	1.060			8.113	22.7	248.4	N/A	N/A	148.3	121.4	0.679C
	4	1x4	1	5/8	0.928	1.060			5.008	32.7	248.4	N/A	N/A	148.3	121.4	0.679C
	5	1x4	1	5/8	0.928	1.060			5.023	195.6	21.7	9.1	12.35	4.7	5.0	0.551T
	6	1x4	1	5/8	0.928	1.060			6.503	28.7	248.4	N/A	N/A	155.5	127.9	0.699C
	7	1x4	1	5/8	0.928	1.060			8.553	142.4	21.7	9.1	12.35	5.1	4.7	0.522C
	8	1x4	1	5/8	0.928	1.060			4.356	60.9	248.4	N/A	N/A	166.3	136.1	0.735C
	9	1x4	1	5/8	0.928	1.060			8.931	136.7	21.7	9.1	12.35	5.1	5.6	0.527T
	10	1x4	1	5/8	0.928	1.060			8.997	137.9	21.7	9.1	12.35	5.7	5.7	0.500T

**WIND RADIAN**

CUSTOMER State of West Virginia

PROJECT 280' SSV

SIZE Kanawha, WV

NAME  
RATOR

DATE  
May 15 2006

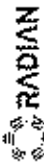
FILE NO.  
06-060-0583

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**MEMORANDUM FOR CONSTRUCTION**

**Section F : MEMBER CAPACITIES AND ASSESSMENT (cont.)**

Section Description	Qty	Member/Description	Grade	Bolts		End Dist. (in)	End Spacing (in)	Spacing (in)		Length Cont. Lcs (ft)	Wt	Capacity (kips)	Member Load (kips)	Ratio	Factor	
				Qty	Dist. (in)			Spacing (in)	Dist. (in)							Dist. (in)
R-109309	1	1x8 PIPE 5.563x0.375 Blag. L3 1/2x2 1/2x1/4	A572 Gr. 50	3/4	N/A	N/A	N/A	12.9	N/A	245.4	211.0	245.4	N/A	N/A	N/A	N/A
				1	3/4	1.125	1.375	1.375	145.3	111.2	28.1	17.76	17.76	5.6	5.7	0.5027
				1	3/4	1.125	1.375	1.375	151.1	10.4	28.1	16.9	17.78	6.2	6.0	0.5940
R-109310	1	1x8 PIPE 5.625x0.360 Blag. L3 1/2x2 1/2x1/4	A572 Gr. 50	N/A	N/A	N/A	N/A	N/A	N/A	249.5	235.0	249.5	N/A	N/A	N/A	N/A
				1	3/4	1.125	1.375	1.375	158.3	3.5	28.1	10.9	17.78	6.2	6.3	0.5550
				1	3/4	1.125	1.375	1.375	167.8	240.0	268.5	N/A	N/A	223.7	192.3	0.9335
R-109311	1	1x8 PIPE 5.625x0.360 Blag. L3 1/2x2 1/2x1/4	A572 Gr. 50	3/4	N/A	N/A	N/A	N/A	N/A	249.5	240.0	249.5	N/A	N/A	N/A	N/A
				1	3/4	1.125	1.375	1.375	165.7	9.4	28.1	12.9	17.78	6.4	6.3	0.3490
				1	3/4	1.125	1.375	1.375	174.2	249.5	356.4	N/A	N/A	228.4	180.9	0.7890
R-120702	1	1x8 PIPE 5.625x0.375 Blag. L3 1/2x2 1/2x1/4	A572 Gr. 50	3/4	N/A	N/A	N/A	N/A	N/A	249.5	240.0	249.5	N/A	N/A	N/A	N/A
				1	3/4	1.125	1.375	1.375	163.7	43.9	39.6	19.5	17.78	6.7	6.6	0.5437
				1	3/4	1.125	1.375	1.375	177.6	36.5	336.4	N/A	N/A	245.4	159.4	0.6330
R-120703	1	1x8 PIPE 5.625x0.375 Blag. L3 1/2x2 1/2x1/4	A572 Gr. 50	3/4	N/A	N/A	N/A	N/A	N/A	249.5	240.0	249.5	N/A	N/A	N/A	N/A
				1	3/4	1.125	1.375	1.375	180.2	12.7	39.6	18.5	17.78	6.9	6.9	0.5687
				1	3/4	1.125	1.375	1.375	191.1	300.1	376.4	N/A	N/A	257.4	207.9	0.8380
R-120704	1	1x8 PIPE 5.625x0.375 Blag. L3 1/2x2 1/2x1/4	A572 Gr. 50	3/4	N/A	N/A	N/A	N/A	N/A	249.5	240.0	249.5	N/A	N/A	N/A	N/A
				1	3/4	1.125	1.375	1.375	186.6	11.7	39.6	19.5	17.78	7.0	6.9	0.6020
				1	3/4	1.125	1.375	1.375	201.7	32.8	388.8	N/A	N/A	274.7	216.2	0.8190
R-120705	1	1x8 PIPE 5.625x0.375 Blag. L3 1/2x2 1/2x1/4	A572 Gr. 50	3/4	N/A	N/A	N/A	N/A	N/A	249.5	240.0	249.5	N/A	N/A	N/A	N/A
				1	3/4	1.125	1.375	1.375	192.2	54.9	47.7	22.6	17.78	7.0	7.0	0.8077
				1	3/4	1.125	1.375	1.375	209.7	327.1	388.8	N/A	N/A	290.2	231.6	0.8190
R-120706	1	1x8 PIPE 5.625x0.375 Blag. L3 1/2x2 1/2x1/4	A572 Gr. 50	3/4	N/A	N/A	N/A	N/A	N/A	249.5	240.0	249.5	N/A	N/A	N/A	N/A
				1	3/4	1.125	1.375	1.375	190.8	13.0	47.7	22.6	17.78	10.0	10.0	0.8392
				1	3/4	1.125	1.375	1.375	209.7	439.2	510.6	N/A	N/A	311.9	245.4	0.7450
R-120707	1	1x8 PIPE 5.625x0.375 Blag. L3 1/2x2 1/2x1/4	A572 Gr. 50	3/4	N/A	N/A	N/A	N/A	N/A	249.5	240.0	249.5	N/A	N/A	N/A	N/A
				1	3/4	1.125	1.375	1.375	201.7	18.1	55.8	25.8	17.78	10.4	10.4	0.8257
				1	3/4	1.125	1.375	1.375	217.2	441.3	510.6	N/A	N/A	351.0	259.6	0.7580



CUSTOMER State of West Virginia

PROJECT 280' SSV

SITE Kanawha, WV

NAME Astor

DATE May 15 2006

FILE NO. 06-060-0583

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SECTION P : MEMBER CAPACITIES AND ASSESSMENT (CONT.)

Section Description	SPL	Member/Description	Grade	Bolts		Edge Dist. (in)	Nominal Area (in <sup>2</sup> )		Length (ft)	Wt (k)	Capacities (kips)			Max. Load (kips)		Ratio	
				No.	Size (in)		Splicing (in)	Ends (in)			Shear	Tension	Block Shear	Compression	Tension		
R-141172	1	LAG LAK411/4	A572 gr. 50	3/4	1.125	2.620			21.029	151.8	16.8	35.8	23.8	17.15	20.4	10.8	0.886E
		LAG PIPE 8.625x0.500	A572 gr. 50	N/A	N/A	N/A			10.037	60.1	439.2	588.4	N/A	N/A	348.7	272.7	0.794C
		D199 LAK211/4	A572 gr. 50	3/4	1.125	2.620			21.916	158.6	15.4	33.8	25.0	17.75	11.4	11.1	0.913E
		D199 LAK211/4	A572 gr. 50	3/4	1.125	2.620			20.512	151.8	15.4	33.8	25.0	17.75	11.4	11.1	0.913E
R-151114	1	LAG PIPE 8.625x0.500	A572 gr. 50	N/A	N/A	N/A			10.017	60.1	441.3	519.4	N/A	N/A	367.5	287.7	0.833E
		D199 LAK411/4	A572 gr. 50	3/4	1.125	2.620			22.811	165.4	16.1	35.0	28.0	17.75	11.4	11.6	0.945E
		D199 LAK211/4	A572 gr. 50	N/A	N/A	N/A			10.019	60.1	439.2	519.4	N/A	N/A	367.5	287.7	0.833E
		D199 LAK211/4	A572 gr. 50	N/A	N/A	N/A			9.824	60.1	439.2	519.4	N/A	N/A	367.5	287.7	0.833E
R-16084200	1	LAG PIPE 10.750x0.500	A572 gr. 50	3/4	1.125	2.750			23.750	175.8	15.6	38.9	36.8	15.3	11.9	11.6	0.781E
		D199 LAK211/4	A572 gr. 50	N/A	N/A	N/A			22.875	175.8	15.6	38.9	36.8	15.3	11.9	11.6	0.781E
		D199 LAK211/4	A572 gr. 50	N/A	N/A	N/A			10.019	60.1	441.3	519.4	N/A	N/A	367.5	287.7	0.833E
		D199 LAK211/4	A572 gr. 50	N/A	N/A	N/A			9.824	60.1	441.3	519.4	N/A	N/A	367.5	287.7	0.833E
R-16084200	2	LAG PIPE 10.750x0.500	A572 gr. 50	3/4	1.125	2.750			23.750	175.8	15.6	38.9	36.8	15.3	11.9	11.6	0.781E
		D199 LAK211/4	A572 gr. 50	N/A	N/A	N/A			22.875	175.8	15.6	38.9	36.8	15.3	11.9	11.6	0.781E
		D199 LAK211/4	A572 gr. 50	N/A	N/A	N/A			10.019	60.1	441.3	519.4	N/A	N/A	367.5	287.7	0.833E
		D199 LAK211/4	A572 gr. 50	N/A	N/A	N/A			9.824	60.1	441.3	519.4	N/A	N/A	367.5	287.7	0.833E
R-16084200	2	LAG PIPE 10.750x0.500	A572 gr. 50	3/4	1.125	2.750			23.750	175.8	15.6	38.9	36.8	15.3	11.9	11.6	0.781E
		D199 LAK211/4	A572 gr. 50	N/A	N/A	N/A			22.875	175.8	15.6	38.9	36.8	15.3	11.9	11.6	0.781E
		D199 LAK211/4	A572 gr. 50	N/A	N/A	N/A			10.019	60.1	441.3	519.4	N/A	N/A	367.5	287.7	0.833E
		D199 LAK211/4	A572 gr. 50	N/A	N/A	N/A			9.824	60.1	441.3	519.4	N/A	N/A	367.5	287.7	0.833E



**RADIAN**

NAME  
Aeron

DATE  
May 15 2006

FILE NO.  
06-050-0583

CUSTOMER State of West Virginia

PROJECT 280' SSY


SITE Kanawha, WV

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SECTION 2 : MEMBER CAPACITIES AND ASSESSMENT (cont.)

SECTION	MEMBER	ID	NUMBER/DESCRIPTION	GRADE	ASSETS		DSD DIST. (ft)	Wdg DIST. (ft)	DOUBLE ANGLE		Length Obs. (ft)	I <sub>cr</sub>	CAPACITIES (kips)		SECT. MOD. (in <sup>4</sup> )	SECT. MOD. (in <sup>4</sup> )	RATIO					
					NO.	SIZE (in)			SPACING (in)	SECTION (in <sup>2</sup> )			COMPRESSION	TENSION				STEEL STRENGTH	SECT. MOD. (in <sup>4</sup> )			
2-SPC113	L49	1	PIPE 10.75x10.500	A572 4x.50	N/A	N/A	N/A	N/A			20.916	31.8	578.0	544.0	N/A	N/A	N/A	639.1	359.8	0.829C		
			Diag.	A572 4x.50	3	N/A	N/A	N/A	N/A			19.252							18.1	19.1	0.577C	
			PIPE 2.500x0.216	A572 4x.50	3	N/A	N/A	N/A	N/A	N/A			22.893	130.5	26.1	89.2	N/A	N/A	N/A	11.0	16.9	0.656C
			WHEEL	A572 4x.50	2	N/A	N/A	N/A	N/A	N/A			27.831	189.9	6.6	43.2	N/A	N/A	N/A	7.2	7.2	1.022C*
			PIPE 2.375x0.154	A572 4x.50	1	N/A	N/A	N/A	N/A	N/A			25.422									
			FACE ROD. 1	A572 4x.50	1	N/A	N/A	N/A	N/A	N/A			11.857	134.0	8.9	31.9	N/A	N/A	N/A	7.2	7.2	0.812C
			FACE ROD. 2	A572 4x.50	1	N/A	N/A	N/A	N/A	N/A			11.857									
			PIPE 1.500x0.145	A572 4x.50	1	N/A	N/A	N/A	N/A	N/A			6.938	144.0	21.6	89.2	N/A	N/A	N/A	0.2	0.2	0.0131
			FACE ROD. 1	A572 4x.50	1	N/A	N/A	N/A	N/A	N/A			13.916									
			PIPE 2.500x0.216	A572 4x.50	1	N/A	N/A	N/A	N/A	N/A			17.926	130.5	9.9	31.9	N/A	N/A	N/A	0.3	0.3	0.931C
			FACE ROD. 1	A572 4x.50	1	N/A	N/A	N/A	N/A	N/A			6.938									
			PIPE 1.900x0.145	A572 4x.50	1	N/A	N/A	N/A	N/A	N/A			6.938	201.9	8.3	49.0	N/A	N/A	N/A	0.3	0.3	0.933C
FACE ROD. 2	A572 4x.50	1	N/A	N/A	N/A	N/A	N/A			15.933												
PIPE 2.875x0.203	A572 4x.50	1	N/A	N/A	N/A	N/A	N/A			15.233												

REQUIREMENT FOR CONSTRUCTION

 <b>RADIAN</b>	<b>NAME</b> Aaron	<b>DATE</b> May 15 2006	<b>FILE NO.</b> Q6-060-0503
<b>CUSTOMER</b> State of West Virginia			<b>PAGE</b> 51
<b>PROJECT</b> 280' SSV			
<b>SITE</b> Kanakha, WV			


Section 5 : ANTENNA DISPLACEMENTS

No.	Description	Elevation (ft)	X-Disp. (in)	Y-Disp. (in)	Z-Disp. (in)	X-Rot. Tilt (Deg)	Y-Rot. Twist (Deg)	Z-Rot. Tilt (Deg)	Wind Direction (Deg)
1	HP6	260.00	12.88	0.11	0.12	0.01	0.10	0.63	180-Bare
2	HP6	260.00	12.88	0.11	0.12	0.01	0.10	0.63	180-Bare
3	HP6	200.00	6.59	0.09	0.04	0.00	0.01	0.36	180-Bare
4	HP6	200.00	6.59	0.09	0.04	0.00	0.01	0.36	180-Bare
5	HP8	140.00	2.95	0.07	0.01	0.00	0.01	0.21	180-Bare
6	HP8	140.00	2.95	0.07	0.01	0.00	0.01	0.21	180-Bare
7	HP8	80.00	0.93	0.04	0.00	0.00	0.00	0.11	180-Bare
8	HP8	80.00	0.93	0.04	0.00	0.00	0.00	0.11	180-Bare
9	12-4'x1'panels	277.00	15.65	0.11	0.19	0.02	0.12	0.67	180-Bare
10	2-whips+6'SA	270.00	14.53	0.11	0.16	0.02	0.11	0.67	180-Bare
11	ICE SHIELD	260.00	12.88	0.11	0.12	0.01	0.10	0.63	180-Bare
12	ICE SHIELD	260.00	12.88	0.11	0.12	0.01	0.10	0.63	180-Bare
13	2-whips+6'SA	215.00	7.07	0.10	0.05	0.00	0.02	0.43	180-Bare
14	ICE SHIELD	200.00	6.59	0.09	0.04	0.00	0.01	0.36	180-Bare
15	ICE SHIELD	200.00	6.59	0.09	0.04	0.00	0.01	0.36	180-Bare
16	2-whips+6'SA	160.00	3.92	0.08	0.02	0.00	0.01	0.24	180-Bare
17	ICE SHIELD	140.00	2.95	0.07	0.01	0.00	0.01	0.21	180-Bare
18	ICE SHIELD	140.00	2.95	0.07	0.01	0.00	0.01	0.21	180-Bare
19	2-whips+6'SA	105.00	1.77	0.06	0.00	0.00	0.01	0.14	180-Bare
20	ICE SHIELD	80.00	0.93	0.04	0.00	0.00	0.00	0.11	180-Bare
21	ICE SHIELD	80.00	0.93	0.04	0.00	0.00	0.00	0.11	180-Bare
22	2-whips+6'SA	50.00	0.35	0.03	0.00	0.00	0.00	0.06	180-Bare
23	Dual Lights	280.00	15.65	0.11	0.19	0.02	0.12	0.67	180-Bare

Maximum Antenna Displacements for Serviceability State.

**PRELIMINARY NOT FOR CONSTRUCTION**



 <b>RADIAN</b>	<b>NAME</b> Aaron	<b>DATE</b> May 15 2006	<b>FILE NO.</b> Q6-060-0583
<b>CUSTOMER</b> State of West Virginia			<b>PAGE</b> T1
<b>PROJECT</b> 280' SSV			
<b>SITE</b> Kanawha, WV			

Section T : FOUNDATION LOADS

Individual Leg Foundation Loads

Load Case	Axial (Kips)	Shear-X (Kips)	Shear-Z (Kips)	Total Shear (Kips)
Max. Download	505.54	50.29	0.09	50.29
Max. Uplift	392.07	41.92	0.04	41.92
Max. Shear	505.54	50.29	0.09	50.29

Tower Foundation Loads

Load Case	Axial (Kips)	Shear-X (Kips)	Shear-Z (Kips)	Shear (Kips)	Mom-X (Kipsft)	Mom-Y (Kipsft)	Mom-Z (Kipsft)	Total Mom. (Kipsft)
Max. Mom-X	117.98	0.00	-69.97	69.97	10616.05	26.26	48.01	10616.56
Max. Mom-Z	117.99	-80.37	-0.01	80.37	-37.42	-3.58	12189.35	12189.41
Max. Moment	117.99	-80.37	-0.01	80.37	-37.42	-3.58	12189.35	12189.41

**PRELIMINARY NOT FOR CONSTRUCTION**

Pricing Spreadsheet

Part	Description	Qty	Unit	Weight	U/P	Commercial Price	
						List Cost	Your Cost**
R-SAG2PL	SIDE ARM ASSY 6' 2LEG K-DOWN	15	EA	2100	198	\$4,950.00	\$2,970.00
R-SAG2PL	SIDE ARM ASSY 6' 2LEG K-DOWN	15	EA	2100	198	\$4,950.00	\$2,970.00
R-RI100LAD	SAFETY DEVICE,ROHN LOCK LADDERS	5	EA	865	625.8	\$5,215.00	\$3,129.00
R-B1R	BEACON W/RED GLASS-NO BULBS	10	EA	770	600	\$10,000.00	\$6,000.00
R-OB1	LIGHT SINGLE OBSTR-RED NO BULB	10	EA	40	103.2	\$1,720.00	\$1,032.00
R-25G	SECTION 100. STD TOWER	6	EA	221	65.4	\$654.00	\$392.40
R-45G	SECTION ASSY 45G 10/1.25"PIPE	6	EA	534	150.6	\$1,506.00	\$903.60
R-1/4TBE&E	TURNBUCKLE 1/4X1 EKH ALUM/P	25	EA	30	0.78	\$32.50	\$19.50
R-3/8TBE&E	TURNBUCKLE 3/8 X 6	25	EA	8	7.2	\$300.00	\$180.00
R-1/2TBE&E	TURNBUCKLE 1/2X12	25	EA	18	15.6	\$650.00	\$390.00
R-3/8TBE&J	TURNBUCKLE 3/8x6	25	EA	25	10.8	\$450.00	\$270.00
R-1/2TBE&J	TURNBUCKLE 1/2X12	25	EA	50	17.7	\$737.50	\$442.50
						\$31,165.00	\$18,699.00
** Your cost above reflects a 40% discount off the prices shown in the "Commercial Price List Cost" column.							
The State of West Virginia may take a 40% discount off the price of any item listed in the attached Commercial Price List.							

**Commercial Price List**  
(Electronic Version)

Part#	UOM	Description	U/W	Price
110144	EA	(REPLACES ROHN PART R-230013) 1/2" DIA. THREAD GR. 2 HEX NUT	0.04	\$0.35
110146	EA	(REPLACES ROHN PART R-230018) 5/8" 11 UNC GR. 2H HEX NUT	0.10	\$0.42
110149	EA	(REPLACES ROHN PART R-230026) 7/8" 9 UNC GR. 2H HEX NUT	0.30	\$1.03
110150	EA	(REPLACES ROHN PART R-230030) 1" 8 UNC GR. 2H HEX NUT	0.40	\$1.32
110159	EA	(REPLACES ROHN PART R-230007) NUT 3/8 (JAM - PAL) HDG		\$0.13
110160	EA	(REPLACES ROHN PART R-230011) 1/2" DIA. THREAD PAL HEX NUT	0.01	\$0.24
110161	EA	(REPLACES ROHN PART R-230017) 5/8" DIA. THREAD PAL HEX NUT	0.01	\$0.58
110162	EA	(REPLACES ROHN PART R-230021) 3/4" DIA. THREAD PAL HEX NUT	0.02	\$0.66
110163	EA	(REPLACES ROHN PART R-230025) NUT 7/8 (JAM - PAL) HDG		\$0.96
110164	EA	(REPLACES ROHN PART R-230029) 1" DIA. THREAD PAL HEX NUT	0.04	\$1.23
110399	EA	(REPLACES ROHN PART R-250010C) 1/2" DIA. MALLEABLE IRON BEVEL WASHER	0.10	\$0.52
110510	EA	(REPLACES ROHN PART R-230019) 5/8" LOCK NUT PIN TYPE ANCO NUTS	0.10	\$1.33
110511	EA	(REPLACES ROHN PART R-230022) 3/4" LOCK NUT PIN TYPE ANCO NUTS	0.20	\$2.25
110512	EA	(REPLACES ROHN PART R-230027) 7/8" LOCK NUT PIN TYPE ANCO NUTS	0.30	\$2.85
110513	EA	(REPLACES ROHN PART R-230028) 1" LOCK NUT PIN TYPE ANCO NUTS	0.40	\$3.71
110551	EA	(REPLACES ROHN PART R-250016C) 3/4" DIA. MALLEABLE IRON BEVEL WASHER	0.10	\$0.81
110581	EA	(REPLACES ROHN PART R-230015) 1/2" LOCK NUT PIN TYPE ANCO NUTS	0.10	\$1.00
110686	EA	(REPLACES ROHN PART R-250077G) BEVEL WASHER 1 IN (MALL.) GALV		\$1.30
140001	EA	(REPLACES ROHN PART R-11/4CCF) U-BOLT CLIP 1/4 GALV		\$5.82
140002	EA	(REPLACES ROHN PART R-5/16CCF) U-BOLT CLIP 5/16 GALV		\$7.00
140004	EA	(REPLACES ROHN PART R-7/16CCF) U-BOLT CLIP 7/16 GALV		\$2.88
140005	EA	(REPLACES ROHN PART R-1/2CCF) U-BOLT CLIP 1/2 GALV		\$5.42
140006	EA	(REPLACES ROHN PART R-9/16CCF) U-BOLT CLIP 9/16 GALV		\$6.40
140007	EA	(REPLACES ROHN PART R-5/8CCF) U-BOLT CLIP 5/8 GALV		\$6.18
140074	EA	(REPLACES ROHN PART R-3/8THH) 3/8" HEAVY THIMBLE	0.20	\$1.65
140075	EA	(REPLACES ROHN PART R-9/16THH) 1/2" HEAVY THIMBLE	0.50	\$2.60
140077	EA	(REPLACES ROHN PART R-5/8THH) 5/8" HEAVY THIMBLE	0.50	\$2.75
140078	EA	(REPLACES ROHN PART R-3/4THH) 3/4" HEAVY THIMBLE	1.50	\$5.12
140079	EA	(REPLACES ROHN PART R-7/8THH) 7/8" HEAVY THIMBLE	1.80	\$7.20
140080	EA	(REPLACES ROHN PART R-1THH) 1" HEAVY THIMBLE	2.80	\$15.00
140207	EA	(REPLACES ROHN PART R-11/4CCF) U-BOLT CLIP 1-1/4 IN GALV		\$26.00
140214	EA	(REPLACES ROHN PART R-3/16CCF) U-BOLT CLIP 3/16 GALV IN GALV		\$3.40
140226	EA	(REPLACES ROHN PART R-5/8FG) FIST GRIP CLIP 9/16-5/8 IN		\$17.00
140227	EA	(REPLACES ROHN PART R-3/4FISTGR) FIST GRIP CLIP 3/4 IN		\$24.00
140228	EA	(REPLACES ROHN PART R-7/8FISTGR) FIST GRIP CLIP 7/8 IN		\$30.00
142256	FT	(REPLACES ROHN PART R-7/8EHS) 7/8" DIA. 19 STRAND EXTRA HIGH STRENGTH (EHS)	1.60	\$3.65
142257	FT	(REPLACES ROHN PART R-3/4EHS) 3/4" DIA. 19 STRAND EXTRA HIGH STRENGTH (EHS)	1.20	\$1.90
142258	FT	(REPLACES ROHN PART R-9/16EHS) 9/16" DIA. 7 STRAND EXTRA HIGH STRENGTH (EHS)	0.70	\$0.99

Part#	UOM	Description	U/W	Price
142259	FT	(REPLACES ROHN PART R-1/2EHS) 1/2" DIA. 7 STRAND EXTRA HIGH STRENGTH (EHS)	0.50	\$0.79
142260	FT	(REPLACES ROHN PART R-7/16EHS) 7/16" DIA. 7 STRAND EXTRA HIGH STRENGTH (EHS)	0.40	\$0.64
142261	FT	(REPLACES ROHN PART R-3/8EHS) 3/8" DIA. 7 STRAND EXTRA HIGH STRENGTH (EHS)	0.30	\$0.48
142265	FT	(REPLACES ROHN PART R-5/16EHS) 5/16" DIA. 7 STRAND EXTRA HIGH STRENGTH (EHS)	0.20	\$0.40
150053	FT	(REPLACES ROHN PART R-CW10S) #10 COPPER SOLID BARE	0.10	\$0.33
150056	FT	(REPLACES ROHN PART R-CW2S) #2 COPPER SOLID BARE	0.70	\$4.75
150057	FT	(REPLACES ROHN PART R-CW10ST) #10 COPPER STR BARE	0.30	\$5.82
150290	FT	(REPLACES ROHN PART R-CW6S) #6 COPPER SOLID BARE	0.10	\$0.54
160418	EA	RAM CABLE STRAIGHT CABLE GUIDE	0.00	\$18.00
160419	EA	RAM CABLE L-TYPE CABLE GUIDE	0.00	\$18.00
R-1/2CCF	EA	(REPLACED BY RADIAN PART 140055) CABLE CLAMP, HDG, FORGED, 1/2"	0.80	\$5.42
R-1/2EHS	FT	(REPLACED BY RADIAN PART 142259) GUY WIRE, HDG, 1/2" EHS	0.50	\$0.79
R-1/2FG	EA	FIST GRIP, HDG, 1/2"	0.20	\$13.00
R-1/2S	EA	SHACKLE, ROUND PIN, 1/2"	0.70	\$14.00
R-1/2TBE&E	EA	TURNBUCKLE, HDG, 1/2" X 12" EYE & EYE	0.70	\$82.00
R-1/2TBE&J	EA	TURNBUCKLE, HDG, 1/2" X 12" EYE & JAW	2.00	\$60.00
R-1/2THH	EA	THIMBLE, HEAVY, OPEN, 1/2"	0.50	\$3.80
R-1/2X12BB	EA	BASE BOLT, HDG, 1/2" X 12"	2.00	\$13.00
R-1/4CCF	EA	(REPLACED BY RADIAN PART 140001) CABLE CLAMP, HDG, FORGED, 1/4"	0.30	\$3.52
R-1/4CCM	EA	CABLE CLAMP, HDG, MALLEABLE, 1/4"	1.00	\$1.00
R-1/4EHS	FT	GUY WIRE, HDG, 1/4" EHS	0.10	\$0.26
R-1/4EHS1000	EA	GUY WIRE, HDG, 1/4" EHS X 1,000 REEL	120.00	\$250.00
R-1/4EHS500	EA	GUY WIRE, HDG, 1/4" EHS X 500 REEL	60.00	\$132.00
R-1/4GAC	FT	CABLE, AIRCRAFT, 7X19 GALVANIZED STEEL, 1/4"	0.10	\$0.70
R-1/4GRIPPLE	EA	GRIPPLE FOR 1/4 GUY WIRE	0.18	\$11.00
R-1/4TBE&E	EA	TURNBUCKLE 1/4 X 4 E&E PLATED	1.25	\$1.30
R-1/4TH	EA	THIMBLE, STANDARD, OPEN, 1/4"	0.10	\$1.00
R-1/8CCM	EA	CABLE CLAMP, HDG, MALLEABLE, 1/8"	0.10	\$0.90
R-1/8HSCC	EA	GUY WIRE 1/8" VINYL COAT	28.30	\$84.00
R-10N	EA	SSV STANDARD SECTION, 20'	870.00	\$2,100.00
R-10NABD	EA	SSV ANCHOR BOLT ASSY	876.50	\$575.00
R-10NH	EA	SSV HEAVY SECTION, 20'	995.70	\$2,200.00
R-11/2x18TB	EA	TURNBUCKLE, HDG, 1-1/2" X 18" EYE & JAW	83.00	\$320.00
R-11/4CCF	EA	(REPLACED BY RADIAN PART 140207) CABLE CLAMP, HDG, FORGED, 1 1/4"	4.30	\$26.00
R-11/4S	EA	SHACKLE, ROUND PIN, 1 1/4"	35.00	\$81.00
R-11/4x18TB	EA	TURNBUCKLE, HDG, 1-1/4" X 18" EYE & JAW	9.80	\$250.00
R-11/8S	EA	SHACKLE, ROUND PIN, 1 1/8"	24.20	\$60.00
R-11N	EA	SSV STANDARD SECTION, 20'	1,410.00	\$2,800.00
R-11NABD	EA	SSV ANCHOR BOLT ASSY 12-88X60 V1.2	139.30	\$1,000.00
R-12AXXX	KIT	ANCHOR BOLT STR ASSY 12-5/8X42	0.00	\$367.00
R-12BXXX	KIT	ANCHOR BOLT STR ASSY 12-3/4X48	0.00	\$448.00
R-12CXXX	KIT	ANCHOR BOLT STR ASSY 12-7/8X48	0.00	\$644.00
R-12DXXX	KIT	ANCHOR BOLT STR ASSY 12-7/8X60	0.00	\$729.00
R-12EXXX	KIT	ANCHOR BOLT STR ASSY 12-1X36	0.00	\$689.00
R-12FXXX	KIT	ANCHOR BOLT STR ASSY 12-1X48	0.00	\$751.00

Part#	UOM	Description	U/W	Price
R-12GXXXX	KIT	ANCHOR BOLT STR ASSY 12-1X55	0.00	\$815.00
R-12HXXXX	KIT	ANCHOR BOLT STR ASSY 12-1X70	0.00	\$887.00
R-12JXXXX	KIT	ANCHOR BOLT STR ASSY 12-1X78	0.00	\$1,070.00
R-12N	EA	SSV STANDARD SECTION, 20'	1,456.20	\$3,200.00
R-12NH	EA	SSV HEAVY SECTION, 20'	1,655.60	\$3,540.00
R-13/4x18TB	EA	TURNBUCKLE, HDG, 1-3/4" X 18" EYE & JAW	1,872.70	\$600.00
R-13N	EA	SSV STANDARD SECTION, 20'	1,700.00	\$3,230.00
R-13NH	EA	SSV HEAVY SECTION, 20'	1,845.80	\$3,815.00
R-14N	EA	SSV STANDARD SECTION, 20'	2,113.40	\$4,489.00
R-14NH	EA	SSV HEAVY SECTION, 20'	2,558.60	\$5,659.00
R-15/16X16PP	EA	65G, 80 PIER PIN	2,827.00	\$16.00
R-15N	EA	SSV STANDARD SECTION, 20'	3.30	\$6,199.00
R-15NH	EA	SSV HEAVY SECTION, 20'	3,248.70	\$6,920.00
R-15NHABD	EA	SSV ANCHOR BOLT ASSY 12-1X78 VL2BT	236.40	\$1,800.00
R-160505GHS	EA	TUBING 1-1/4" OD X 16GA X 5' HDG SE	4.00	\$6.91
R-160505PHS	EA	TUBING 1-1/4" OD X 16GA X 5' PG SE	4.10	\$12.00
R-160506PLX	EA	TUBING 1-1/2" OD X 16GA X 5' PG EX	4.90	\$16.00
R-161005GHS	EA	TUBING 1-1/4" OD X 16GA X 10' HDG SE	8.00	\$14.00
R-161005PHS	EA	TUBING 1-1/4" OD X 16GA X 10' PG SE	8.10	\$18.00
R-161006PLX	EA	TUBING 1-1/2" OD X 16GA X 10' PG EX	9.80	\$59.00
R-16N	EA	SSV STANDARD SECTION, 20'	3,642.50	\$6,445.00
R-16NH	EA	SSV HEAVY SECTION, 20'	3,400.00	\$7,402.00
R-181X78AB	EA	SSV ANCHOR BOLT ASSY 18-1X78&135AT	363.10	\$2,700.00
R-18JXXXX	KIT	ANCHOR BOLT STR ASSY 18-1X78	0.00	\$1,738.00
R-1BS	FT	GUY WIRE, HDG, 1" BRIDGE STRAND	3,796.60	\$5.43
R-1LG	EA	ONE-LEGGED MOUNT ASSY PG	5.00	\$21.00
R-1LGCM	EA	CHIMNEY MOUNTING KIT FOR 1LG	7.00	\$18.00
R-1S	EA	SHACKLE, ROUND PIN, 1"	2.10	\$48.00
R-1TBE&J	EA	TURNBUCKLE, HDG, 1" X 12" EYE & JAW	5.00	\$213.00
R-1THH	EA	(REPLACED BY RADIAN PART 140080) THIMBLE, HEAVY, OPEN, 1"	2.80	\$15.00
R-1TT	EA	SSV TAPERED TOP ASSY FOR 1W, 2W	11.20	\$175.00
R-1W	EA	SSV STANDARD SECTION, 20'	19.70	\$525.00
R-1WB	EA	SSV STANDARD SECTION, 10'	107.00	\$400.00
R-20AG	EA	20G TOP SECTION, 9'	26.60	\$114.00
R-20BG	EA	20G TOP SECTION, 3'	8.50	\$119.00
R-20G	EA	20G STANDARD SECTION, 10'-0"	30.10	\$93.00
R-210003GA	EA	BOLT ASSEMBLY, HDG, 5/16" X 2-3/8"	62.90	\$0.93
R-210005GA	EA	BOLT ASSEMBLY, HDG, 3/8" X 1-1/4"	0.10	\$0.39
R-210008GA	EA	BOLT ASSEMBLY, HDG, 3/8" X 1-1/2"	0.10	\$0.43
R-210009GA	EA	BOLT ASSEMBLY, HDG, 3/8" X 2"	0.20	\$0.53
R-210011GA	EA	BOLT ASSEMBLY, HDG, 3/8" X 2-1/2" FT	0.10	\$0.49
R-210013GA	EA	BOLT ASSEMBLY, HDG, 3/8" X 4"	0.10	\$0.78
R-210014GA	EA	BOLT ASSEMBLY, HDG, 3/8" X 4"	0.20	\$0.89
R-210016GA	EA	BOLT ASSEMBLY, HDG, 7/16" X 2-1/2"	0.20	\$0.92
R-210017GA	EA	BOLT ASSEMBLY, HDG, 1/2" X 1-1/4"	0.10	\$1.05
R-210018GA	EA	BOLT ASSEMBLY, HDG, 1/2" X 1-1/2"	0.20	\$1.02
R-210019GA	EA	BOLT ASSEMBLY, HDG, 1/2" X 1-3/4"	0.20	\$1.08
R-210020GA	EA	BOLT ASSEMBLY, HDG, 1/2" X 2"	0.20	\$1.18
R-210029GA	EA	BOLT ASSEMBLY, HDG, 5/8" X 1-1/2"	0.30	\$1.92

Part#	UOM	Description	U/W	Price
R-210030GA	EA	BOLT ASSEMBLY, HDG, 5/8" X 1-3/4"	0.30	\$2.12
R-210031GA	EA	BOLT ASSEMBLY, HDG, 5/8" X 2"	0.60	\$2.17
R-210032GA	EA	BOLT ASSEMBLY, HDG, 5/8" X 2-1/4"	0.40	\$1.95
R-210033GA	EA	BOLT ASSEMBLY, HDG, 5/8" X 2-1/2"	0.10	\$2.35
R-210036GA	EA	BOLT ASSEMBLY, HDG, 5/8" X 3-1/4"	0.40	\$4.98
R-210038GA	EA	BOLT ASSEMBLY, HDG, 5/8" X 3-3/4"	0.50	\$4.55
R-210042G	EA	STEP BOLT, HDG, 5/8" X 6-1/2", BOLT ONLY	0.50	\$5.12
R-210046GA	EA	BOLT ASSEMBLY, HDG, 3/4" X 1-3/4"	0.80	\$2.28
R-210047GA	EA	BOLT ASSEMBLY, HDG, 3/4" X 2"	0.50	\$3.76
R-210048GA	EA	BOLT ASSEMBLY, HDG, 3/4" X 2-1/4"	0.80	\$2.49
R-210049GA	EA	BOLT ASSEMBLY, HDG, 3/4" X 2-1/2"	0.60	\$2.79
R-210050GA	EA	BOLT ASSEMBLY, HDG, 3/4" X 2-3/4"	0.20	\$2.65
R-210057GA	EA	BOLT ASSEMBLY, HDG, 3/4" X 4-1/2"	0.70	\$4.73
R-210058GA	EA	BOLT ASSEMBLY, HDG, 3/4" X 5"	0.90	\$4.02
R-210059GA	EA	BOLT ASSEMBLY, HDG, 3/4" X 5-1/2"	0.90	\$5.06
R-210061GA	EA	BOLT ASSEMBLY, HDG, 7/8" X 2-1/4"	1.00	\$4.72
R-210062GA	EA	BOLT ASSEMBLY, HDG, 7/8" X 3"	0.90	\$4.52
R-210063GA	EA	BOLT ASSEMBLY, HDG, 7/8" X 3-1/2"	1.00	\$5.78
R-210069GA	EA	BOLT ASSEMBLY, HDG, 1" X 4-1/4"	1.20	\$8.23
R-210070GA	EA	BOLT ASSEMBLY, HDG, 1" X 5-1/2"	1.70	\$7.93
R-210072GA	EA	BOLT ASSEMBLY, HDG, 5/8" X 3-1/4"	0.45	\$4.72
R-210083GA	EA	BOLT ASSEMBLY, HDG, 1/2" X 5"	0.50	\$2.51
R-210091GA	EA	BOLT ASSEMBLY, HDG, 3/4" X 4-1/2"	0.91	\$3.17
R-210140GA	EA	BOLT ASSEMBLY, HDG, 5/8" X 2"	0.90	\$1.80
R-210146GA	EA	BOLT ASSEMBLY, HDG, 5/8" X 1-3/4"	0.40	\$2.00
R-210164GA	EA	BOLT ASSEMBLY, HDG, 1" X 5-3/4"	0.40	\$8.09
R-210176GA	EA	BOLT ASSEMBLY, HDG, 3/8" X 2-1/2" FT	2.00	\$0.70
R-220029	EA	BOLT ASSEMBLY, ZINC PLATED, 1/4"	0.13	\$0.13
R-220037	EA	BOLT ASSEMBLY, ZINC PLATED, 5/16"	0.01	\$0.17
R-2237	EA	CONNECTOR, WT, 1/2 CABLE	0.10	\$10.40
R-230001	EA	NUT, PAL, HDG, 5/16"	0.10	\$0.50
R-230002	EA	NUT, HEX, HDG, 5/16"	0.10	\$0.06
R-230005	EA	NUT, HEX, HEAVY, HDG, 3/8"	0.01	\$0.14
R-230007	EA	(REPLACED BY RADIAN PART 110159) NUT, PAL, HDG, 3/8"	0.40	\$0.13
R-230008	EA	NUT, ANCO LOCK, HEX, HDG, 3/8"	0.04	\$0.67
R-230009	EA	NUT, HEX, HDG, 7/16"	0.10	\$0.12
R-230011	EA	(REPLACED BY RADIAN PART 110160) NUT, PAL, HDG, 1/2"	0.04	\$0.24
R-230013	EA	(REPLACED BY RADIAN PART 110144) NUT, HEX, HEAVY, HDG, 1/2"	0.30	\$0.35
R-230015	EA	(REPLACED BY RADIAN PART 110581) NUT, ANCO LOCK, HDG, 1/2"	0.10	\$1.00
R-230017	EA	(REPLACED BY RADIAN PART 110161) NUT, PAL, HDG, 5/8"	0.01	\$0.58
R-230018	EA	(REPLACED BY RADIAN PART 110146) NUT, HEX, HEAVY, HDG, 5/8"	0.04	\$0.42
R-230019	EA	(REPLACED BY RADIAN PART 110510) NUT, ANCO LOCK, HDG, 5/8"	0.80	\$1.33
R-230020	EA	NUT, HEX, HEAVY, HDG, 3/4"	0.03	\$0.94
R-230021	EA	(REPLACED BY RADIAN PART 110162) NUT, PAL, HDG, 3/4"	0.01	\$0.66
R-230022	EA	(REPLACED BY RADIAN PART 110511) NUT, ANCO LOCK, HDG, 3/4"	0.10	\$2.25
R-230025	EA	(REPLACED BY RADIAN PART 110163) NUT, PAL, HDG, 7/8"	0.20	\$0.96

**Commercial Price List**  
(Electronic Version)

Part#	QOM	Description	U/W	Price
R-230026	EA	(REPLACED BY RADIAN PART 110149) NUT, HEX, HEAVY, HDG, 7/8"	0.10	\$1.03
R-230027	EA	(REPLACED BY RADIAN PART 110512) NUT, ANCO LOCK, HDG, 7/8"	0.20	\$2.85
R-230028	EA	(REPLACED BY RADIAN PART 110513) NUT, ANCO LOCK, HDG, 1"	0.30	\$3.71
R-230029	EA	(REPLACED BY RADIAN PART 110164) NUT, PAL, HDG, 1"	0.20	\$1.23
R-230030	EA	(REPLACED BY RADIAN PART 110150) NUT, HEX, HEAVY, HDG, 1"	0.30	\$1.32
R-23X546	EA	RECEPTACLES	1.00	\$68.00
R-240005	EA	NUT, HEX, ZINC PLATED, 1/4"	0.10	\$0.02
R-240009	EA	NUT, HEX, ZINC PLATED, 1/4"	0.10	\$0.02
R-240014	EA	NUT, HEX, ZINC PLATED, 5/16"	0.10	\$0.04
R-240016	EA	NUT, HEX, ZINC PLATED, 5/16"	0.01	\$0.04
R-240021	EA	NUT, HEX, ZINC PLATED, 3/8"	0.01	\$0.04
R-24213	EA	GUY STRAIN INSULATOR, PORCELAIN, 57,000 LBS US (SPEC ORDER)	0.16	\$224.00
R-24369	EA	GUY STRAIN INSULATOR, PORCELAIN, 42,000 LBS US (SPEC ORDER)	7.00	\$128.00
R-24JXXXX	KIT	ANCHOR BOLT STR ASSY 24-1X78	0.00	\$2,197.00
R-250005G	EA	WASHER, FLAT, HDG, 5/16"	0.01	\$0.08
R-250008G	EA	WASHER, FLAT, HDG, 3/8"	0.01	\$0.07
R-250010G	EA	(REPLACED BY RADIAN PART 110399) WASHER, BEVEL, HDG, 1/2"	0.07	\$0.52
R-250011G	EA	WASHER, FLAT, HDG, 9/16"	0.02	\$0.15
R-250012G	EA	WASHER, FLAT, HDG, 5/8"	0.03	\$0.19
R-250016G	EA	(REPLACED BY RADIAN PART 110551) WASHER, BEVEL, HDG, 3/4"	0.40	\$0.81
R-250017G	EA	WASHER, FLAT, HDG, 3/4"	0.05	\$0.30
R-250018G	EA	WASHER, FLAT, HDG, 1"	0.10	\$0.62
R-250032G	EA	WASHER, FLAT, HDG, 7/8"	0.10	\$0.63
R-250040G	EA	WASHER, BEVEL, HDG, 3/8"	0.10	\$0.63
R-250062G	EA	WASHER, BEVEL, HDG, 7/8"	0.10	\$1.73
R-250077G	EA	(REPLACED BY RADIAN PART 110686) WASHER, BEVEL, HDG, 1"	0.10	\$1.30
R-2534	EA	CONN, WT FOR 14/2 SO CABLE CG-5	0.10	\$9.75
R-2550	EA	SCREW, SLOT HEX LAG, 4 X 1-1/2	0.10	\$0.25
R-2590FF	EA	25G 90 DEGREE JOINTS, F-F	0.40	\$110.00
R-2590FM	EA	25G 90 DEGREE JOINTS, F-M	9.70	\$110.00
R-2590MM	EA	25G 90 DEGREE JOINTS, M-M	11.00	\$121.00
R-25ACL3	EA	25G ANTI-CLIMB PANELS (3) ONLY	99.20	\$539.00
R-25AG	EA	25G TOP SECTION	59.20	\$126.00
R-25AG1	EA	25G TOP SECTION	34.40	\$160.00
R-25AG2	EA	25G TOP SECTION	37.00	\$145.00
R-25AG3	EA	25G TOP SECTION	37.00	\$180.00
R-25AG4	EA	25G TOP SECTION	38.00	\$142.00
R-25AG5	EA	25G TOP SECTION	45.10	\$166.00
R-25AJBK	EA	25AG JOINT BOLT KIT	0.40	\$2.80
R-25BRKT040	EA	25G BRACKETED TOWER KIT, NI, 40'	254.80	\$828.00
R-25BRKT050	EA	25G BRACKETED TOWER KIT, NI, 50'	295.50	\$936.00
R-25BRKT060	EA	25G BRACKETED TOWER KIT, NI, 60'	336.20	\$1,045.00
R-25BRKT070	EA	25G BRACKETED TOWER KIT, NI, 70'	376.90	\$1,153.00
R-25BRKT080	EA	25G BRACKETED TOWER KIT, NI, 80'	417.60	\$1,261.00
R-25BRKT090	EA	25G BRACKETED TOWER KIT, NI, 90'	458.30	\$1,345.00

**Commercial Price List**  
(Electronic Version)

Part#	UOM	Description	U/W	Price
R-25BRKT100	EA	25G BRACKETED TOWER KIT, NI, 100'	487.00	\$1,434.00
R-25G	EA	25G STANDARD SECTION, 10'-0"	36.80	\$109.00
R-25G110D040	EA	25G TOWER KIT, 110 MPH, NI, 40'	41.10	\$1,275.00
R-25G110D050	EA	25G TOWER KIT, 110 MPH, NI, 50'	302.60	\$1,561.00
R-25G110D060	EA	25G TOWER KIT, 110 MPH, NI, 60'	385.10	\$1,681.00
R-25G110D070	EA	25G TOWER KIT, 110 MPH, NI, 70'	433.40	\$1,802.00
R-25G110D080	EA	25G TOWER KIT, 110 MPH, NI, 80'	481.70	\$2,185.00
R-25G110D090	EA	25G TOWER KIT, 110 MPH, NI, 90'	572.20	\$2,314.00
R-25G110D100	EA	25G TOWER KIT, 110 MPH, NI, 100'	629.40	\$2,435.00
R-25G7	EA	25G SECTION, 7'-0"	28.00	\$174.00
R-25G70D040	EA	25G TOWER KIT, 70 MPH, NI, 40'	30.00	\$1,275.00
R-25G70D050	EA	25G TOWER KIT, 70 MPH, NI, 50'	302.60	\$1,561.00
R-25G70D060	EA	25G TOWER KIT, 70 MPH, NI, 60'	385.10	\$1,681.00
R-25G70D070	EA	25G TOWER KIT, 70 MPH, NI, 70'	433.40	\$1,802.00
R-25G70D080	EA	25G TOWER KIT, 70 MPH, NI, 80'	481.70	\$2,180.00
R-25G70D090	EA	25G TOWER KIT, 70 MPH, NI, 90'	569.70	\$2,305.00
R-25G70D100	EA	25G TOWER KIT, 70 MPH, NI, 100'	620.40	\$2,430.00
R-25G70D110	EA	25G TOWER KIT, 70 MPH, NI, 110'	671.20	\$2,555.00
R-25G70D120	EA	25G TOWER KIT, 70 MPH, NI, 120'	722.00	\$2,991.00
R-25G70D130	EA	25G TOWER KIT, 70 MPH, NI, 130'	835.10	\$3,121.00
R-25G70D140	EA	25G TOWER KIT, 70 MPH, NI, 140'	937.00	\$3,249.00
R-25G70D150	EA	25G TOWER KIT, 70 MPH, NI, 150'	899.60	\$3,748.00
R-25G70D160	EA	25G TOWER KIT, 70 MPH, NI, 160'	1,059.60	\$3,912.00
R-25G70D170	EA	25G TOWER KIT, 70 MPH, NI, 170'	1,122.90	\$4,065.00
R-25G70D180	EA	25G TOWER KIT, 70 MPH, NI, 180'	1,181.20	\$4,198.00
R-25G70D190	EA	25G TOWER KIT, 70 MPH, NI, 190'	1,231.90	\$4,370.00
R-25G90D040	EA	25G TOWER KIT, 90 MPH, NI, 40'	1,297.70	\$1,275.00
R-25G90D050	EA	25G TOWER KIT, 90 MPH, NI, 50'	302.60	\$1,561.00
R-25G90D060	EA	25G TOWER KIT, 90 MPH, NI, 60'	385.10	\$1,681.00
R-25G90D070	EA	25G TOWER KIT, 90 MPH, NI, 70'	433.40	\$1,802.00
R-25G90D080	EA	25G TOWER KIT, 90 MPH, NI, 80'	481.70	\$2,180.00
R-25G90D090	EA	25G TOWER KIT, 90 MPH, NI, 90'	569.70	\$2,305.00
R-25G90D100	EA	25G TOWER KIT, 90 MPH, NI, 100'	620.40	\$2,430.00
R-25G90D110	EA	25G TOWER KIT, 90 MPH, NI, 110'	685.20	\$2,555.00
R-25G90D120	EA	25G TOWER KIT, 90 MPH, NI, 120'	722.00	\$2,991.00
R-25G90D130	EA	25G TOWER KIT, 90 MPH, NI, 130'	835.10	\$3,130.00
R-25G90D140	EA	25G TOWER KIT, 90 MPH, NI, 140'	893.40	\$3,250.00
R-25G90D150	EA	25G TOWER KIT, 90 MPH, NI, 150'	941.70	\$4,796.00
R-25G90D160	EA	25G TOWER KIT, 90 MPH, NI, 160'	1,111.00	\$4,949.00
R-25G90D170	EA	25G TOWER KIT, 90 MPH, NI, 170'	1,239.40	\$5,291.00
R-25G90D180	EA	25G TOWER KIT, 90 MPH, NI, 180'	1,320.30	\$5,457.00
R-25G90D190	EA	25G TOWER KIT, 90 MPH, NI, 190'	1,383.50	\$5,604.00
R-25GBRM	EA	BRM6X BALLAST ROOF MOUNT FOR 25G	1,439.30	\$829.00
R-25GSSB	EA	25G SELF SUPPORTING BASE PLATE	55.40	\$143.00
R-25GWM	EA	25G WALL MOUNT	94.70	\$312.00
R-25JBK	EA	25G JOINT BOLT KIT	0.30	\$2.43
R-25RG	EA	25G INSULATOR SECTION, 10'-0"	354.00	\$1,441.00
R-25SS010	EA	25G SELF SUPPORT TOWER KIT, NI, 10'	77.00	\$315.00
R-25SS020	EA	25G SELF SUPPORT TOWER KIT, NI, 20'	114.00	\$424.00



Part#	UOM	Description	U/W	Price
R-25SS030	EA	25G SELF SUPPORT TOWER KIT, NI, 30'	151.00	\$533.00
R-25SS035	EA	25G SELF SUPPORT TOWER KIT, NI, 35'	176.00	\$648.00
R-25SS040	EA	25G SELF SUPPORT TOWER KIT, NI, 40'	188.00	\$716.00
R-25TDMKD	EA	25G TOP DISH MOUNT	106.50	\$315.00
R-25TG	EA	25G TAPERED BASE SECTION, 10'-0"	75.30	\$532.00
R-25TGA	EA	25G TAPERED BASE SECTION, 9'-6"	75.30	\$536.00
R-25TGIA	EA	25G TAPERED BASE SECTION, 10'-0", A4197	76.20	\$536.00
R-260004P	EA	EYE BOLT, 5/8" X 18", WITH NUTS	27.00	\$89.00
R-2UMBX	EA	BASE, MAST, UNIVERSAL	0.90	\$8.15
R-2W	EA	SSV STANDARD SECTION, 20'	153.00	\$950.00
R-2WB	EA	SSV STRAIGHT SECTION, 10'	91.00	\$500.00
R-2WST	EA	SSV STRAIGHT SECTION, 20'	168.00	\$600.00
R-3/16CCF	EA	(REPLACED BY RADIAN PART 140214) CABLE CLAMP, HDG, FORGED, 3/16"	0.10	\$3.40
R-3/16CCM	EA	CABLE CLAMP, HDG, MALLEABLE, 13/16"	153.50	\$0.90
R-3/16EHS	FT	GUY WIRE, HDG, 3/16" EHS	0.10	\$0.25
R-3/16EHS1000	EA	GUY WIRE, HDG, 3/16" EHS X 1000' REEL	0.10	\$238.00
R-3/16EHS500	EA	GUY WIRE, HDG, 3/16" EHS X 500' REEL	68.00	\$126.00
R-3/4C	EA	COUPLER, GROUND ROD, 3/4"	34.00	\$21.00
R-3/4EHS	FT	(REPLACED BY RADIAN PART 142257) GUY WIRE, HDG, 3/4" EHS	1.20	\$1.90
R-3/4FISTGR	EA	(REPLACED BY RADIAN PART 140227) FIST GRIP, HDG, 3/4"	2.25	\$24.00
R-3/4S	EA	SHACKLE, ROUND PIN, 3/4"	0.50	\$22.00
R-3/4TBE&J	EA	TURNBUCKLE, HDG, 3/4" X 12" EYE & JAW	2.50	\$82.00
R-3/4THH	EA	(REPLACED BY RADIAN PART 140078) THIMBLE, HEAVY, OPEN, 3/4"	0.80	\$5.12
R-3/4X12PP	EA	450, 55G PIER PIN	5.40	\$11.00
R-3/4X16BB	EA	BASE BOLT, HDG, 3/4"	1.60	\$9.40
R-3/8CCF	EA	CABLE CLAMP, HDG, FORGED, 3/8"	3.10	\$4.10
R-3/8EHS	FT	(REPLACED BY RADIAN PART 142261) GUY WIRE, HDG, 3/8" EHS	0.30	\$0.48
R-3/8S	EA	SHACKLE, ROUND PIN, 3/8"	0.50	\$8.50
R-3/8TBE&E	EA	TURNBUCKLE, HDG, 3/8" X 6" EYE & EYE	0.30	\$12.00
R-3/8TBE&J	EA	TURNBUCKLE, HDG, 3/8" X 6" EYE & JAW	1.00	\$18.00
R-3/8TH	EA	THIMBLE, STANDARD, OPEN, 3/8"	1.00	\$2.12
R-3/8THH	EA	(REPLACED BY RADIAN PART 140074) THIMBLE, HEAVY, OPEN, 3/8"	0.30	\$1.65
R-30JXXX	KIT	ANCHOR BOLT STR ASSY 30-1X78	0.00	\$2,646.00
R-340007	EA	GROUND SCREEN, COPPER, 8' X 24"	0.02	\$1,300.00
R-340016	EA	GROUND CLAMP, BRONZE, FOR 3/4" COPPER GROUND ROD	38.40	\$6.95
R-340016T	EA	GROUND CLAMP, TINNED, FOR 3/4" COPPER GROUND ROD	0.30	\$15.00
R-340017	EA	GROUND CLAMP, BRONZE, FOR 5/8" COPPER GROUND ROD	0.10	\$2.60
R-340017T	EA	GROUND CLAMP, TINNED, FOR 5/8" COPPER GROUND ROD	0.10	\$2.75
R-340018	EA	GROUND CLAMP, FOR USE WITH ROUND MEMBERS 1/2" TO 1"	0.20	\$4.90
R-340018T	EA	GROUND CLAMP, TINNED, FOR USE WITH ROUND MEMBERS 1/2" TO 1"	0.30	\$7.00
R-340019T	EA	GROUND CLAMP, TINNED, FOR USE WITH ROUND MEMBERS 1 1/2" TO 2 3/8"	0.20	\$26.00
R-340020	EA	GROUND ROD, COPPER CLAD, 5/8" X 6'	0.00	\$21.00
R-340021	EA	GROUND ROD, COPPER CLAD, 5/8" X 10'	8.00	\$29.00
R-340024	EA	GROUND ROD, COPPER CLAD, 3/4" X 10', THD END	14.00	\$42.00
R-340028	EA	GROUND CLAMP, FOR USE WITH 3/16" TO 1/2" GUY WIRE	12.80	\$12.00
R-340029	EA	GROUND CLAMP, FOR USE WITH 9/16" TO 3/4" GUY WIRE	0.20	\$11.00

**Commercial Price List**  
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Part#	UOM	Description	U/W	Price
R-340034	EA	GROUND LUG, CRIMP TYPE, TO #4 WIRE	0.40	\$2.50
R-340034A	EA	GROUND LUG, CRIMP TYPE, TO #4 WIRE, WITH 3/8" BOLT & NUT	0.03	\$4.44
R-340039	FT	STRAP, COPPER, 2" X .021"	0.10	\$1.65
R-340040	FT	STRAP, COPPER, 3" X .021"	0.20	\$2.44
R-340041	FT	STRAP, COPPER, 4" X .021"	0.30	\$3.35
R-340043A	EA	GROUND LUG, #14 THRU #4 WIRE, WITH 1/4" BOLT & NUT	0.06	\$3.43
R-340043T	EA	GROUND LUG, #14 THRU #4 WIRE	1.10	\$2.95
R-340079T	EA	GROUND CLAMP, THOMPSON, FOR 2/0 WIRE	0.45	\$23.00
R-360288	EA	GUY ASSY, INSULATOR, FIBERGLASS, 24', 36K LBS, FOR 3/16" TO 9/16"	0.50	\$250.00
R-361XXXX	KIT	ANCHOR BOLT STR ASSY 36-1X78	0.00	\$3,216.00
R-380063	EA	PAINT, COLD GALV, SPRAY	23.00	\$14.00
R-380065	EA	PAINT, COLD GALV, QUART CAN	0.50	\$64.00
R-3TT	EA	SSV TAPERED TOP ASSY FOR 2W, 3W	6.00	\$175.00
R-3WN	EA	SSV STANDARD SECTION, 20'	20.50	\$750.00
R-3WNB	EA	SSV STANDARD SECTION, 10'	145.00	\$550.00
R-3WNST	EA	SSV STRAIGHT SECTION, 20'	274.70	\$900.00
R-45ACL3	EA	45G, 55G ANTI-CLIMB PANELS (3) ONLY	236.30	\$631.00
R-45AG	EA	45G TOP SECTION, 9'-0"	154.20	\$257.00
R-45AG1	EA	45G TOP SECTION	53.40	\$400.00
R-45AG2	EA	45G TOP SECTION	56.60	\$290.00
R-45AG3	EA	45G TOP SECTION	65.50	\$256.00
R-45AG4	EA	45G TOP SECTION	54.60	\$301.00
R-45AG5	EA	45G TOP SECTION	79.70	\$400.00
R-45BRKT040	EA	45G BRACKETED TOWER KIT, NI, 40'	372.40	\$1,292.00
R-45BRKT050	EA	45G BRACKETED TOWER KIT, NI, 50'	442.80	\$1,543.00
R-45BRKT060	EA	45G BRACKETED TOWER KIT, NI, 60'	513.30	\$1,794.00
R-45BRKT070	EA	45G BRACKETED TOWER KIT, NI, 70'	583.70	\$2,045.00
R-45BRKT080	EA	45G BRACKETED TOWER KIT, NI, 80'	654.10	\$2,296.00
R-45BRKT090	EA	45G BRACKETED TOWER KIT, NI, 90'	724.60	\$2,547.00
R-45BRKT100	EA	45G BRACKETED TOWER KIT, NI, 100'	795.00	\$2,798.00
R-45G	EA	45G STANDARD SECTION, 10'-0"	55.60	\$251.00
R-45G110D040	EA	45G TOWER KIT, 110 MPH, NI, 40'	70.40	\$2,228.00
R-45G110D050	EA	45G TOWER KIT, 110 MPH, NI, 50'	540.90	\$2,491.00
R-45G110D060	EA	45G TOWER KIT, 110 MPH, NI, 60'	617.30	\$3,011.00
R-45G110D070	EA	45G TOWER KIT, 110 MPH, NI, 70'	717.60	\$3,273.00
R-45G110D080	EA	45G TOWER KIT, 110 MPH, NI, 80'	826.60	\$3,545.00
R-45G110D090	EA	45G TOWER KIT, 110 MPH, NI, 90'	863.90	\$3,812.00
R-45G110D100	EA	45G TOWER KIT, 110 MPH, NI, 100'	983.00	\$4,640.00
R-45G110D110	EA	45G TOWER KIT, 110 MPH, NI, 110'	1,170.90	\$4,917.00
R-45G110D120	EA	45G TOWER KIT, 110 MPH, NI, 120'	1,254.80	\$5,351.00
R-45G110D130	EA	45G TOWER KIT, 110 MPH, NI, 130'	1,380.80	\$5,662.00
R-45G110D140	EA	45G TOWER KIT, 110 MPH, NI, 140'	1,452.10	\$6,325.00
R-45G110D150	EA	45G TOWER KIT, 110 MPH, NI, 150'	1,643.30	\$6,601.00
R-45G110D160	EA	45G TOWER KIT, 110 MPH, NI, 160'	1,808.00	\$6,881.00
R-45G110D170	EA	45G TOWER KIT, 110 MPH, NI, 170'	1,727.20	\$7,549.00
R-45G70D040	EA	45G TOWER KIT, 70 MPH, NI, 40'	531.00	\$2,203.00
R-45G70D050	EA	45G TOWER KIT, 70 MPH, NI, 50'	606.00	\$2,463.00
R-45G70D060	EA	45G TOWER KIT, 70 MPH, NI, 60'	679.00	\$2,718.00

**Commercial Price List**  
(Electronic Version)

Part#	UOM	Description	U/W	Price
R-45G70D070	EA	45G TOWER KIT, 70 MPH, NI, 70'	817.00	\$3,211.00
R-45G70D080	EA	45G TOWER KIT, 70 MPH, NI, 80'	890.00	\$3,467.00
R-45G70D090	EA	45G TOWER KIT, 70 MPH, NI, 90'	970.00	\$3,736.00
R-45G70D100	EA	45G TOWER KIT, 70 MPH, NI, 100'	1,046.00	\$3,996.00
R-45G70D110	EA	45G TOWER KIT, 70 MPH, NI, 110'	1,189.00	\$4,566.00
R-45G70D120	EA	45G TOWER KIT, 70 MPH, NI, 120'	1,264.00	\$4,826.00
R-45G70D130	EA	45G TOWER KIT, 70 MPH, NI, 130'	1,352.00	\$5,109.00
R-45G70D140	EA	45G TOWER KIT, 70 MPH, NI, 140'	1,443.00	\$5,429.00
R-45G70D150	EA	45G TOWER KIT, 70 MPH, NI, 150'	1,593.00	\$5,992.00
R-45G70D160	EA	45G TOWER KIT, 70 MPH, NI, 160'	1,685.00	\$6,317.00
R-45G70D170	EA	45G TOWER KIT, 70 MPH, NI, 170'	1,772.00	\$6,562.00
R-45G70D180	EA	45G TOWER KIT, 70 MPH, NI, 180'	1,883.00	\$7,160.00
R-45G70D190	EA	45G TOWER KIT, 70 MPH, NI, 190'	2,039.00	\$7,820.00
R-45G70D200	EA	45G TOWER KIT, 70 MPH, NI, 200'	2,166.00	\$8,196.00
R-45G70D210	EA	45G TOWER KIT, 70 MPH, NI, 210'	2,233.00	\$8,312.00
R-45G70D220	EA	45G TOWER KIT, 70 MPH, NI, 220'	2,329.00	\$8,652.00
R-45G70D230	EA	45G TOWER KIT, 70 MPH, NI, 230'	2,515.00	\$9,534.00
R-45G70D240	EA	45G TOWER KIT, 70 MPH, NI, 240'	2,612.00	\$9,849.00
R-45G70D250	EA	45G TOWER KIT, 70 MPH, NI, 250'	2,724.00	\$10,177.00
R-45G70D260	EA	45G TOWER KIT, 70 MPH, NI, 260'	2,802.00	\$10,441.00
R-45G70D270	EA	45G TOWER KIT, 70 MPH, NI, 270'	2,975.00	\$11,066.00
R-45G70D280	EA	45G TOWER KIT, 70 MPH, NI, 280'	3,053.00	\$11,332.00
R-45G70D290	EA	45G TOWER KIT, 70 MPH, NI, 290'	3,169.00	\$11,667.00
R-45G70D300	EA	45G TOWER KIT, 70 MPH, NI, 300'	3,250.00	\$11,938.00
R-45G90D040	EA	45G TOWER KIT, 90 MPH, NI, 40'	535.00	\$2,228.00
R-45G90D050	EA	45G TOWER KIT, 90 MPH, NI, 50'	611.00	\$2,491.00
R-45G90D060	EA	45G TOWER KIT, 90 MPH, NI, 60'	745.00	\$3,005.00
R-45G90D070	EA	45G TOWER KIT, 90 MPH, NI, 70'	827.00	\$3,277.00
R-45G90D080	EA	45G TOWER KIT, 90 MPH, NI, 80'	906.00	\$3,545.00
R-45G90D090	EA	45G TOWER KIT, 90 MPH, NI, 90'	982.00	\$3,806.00
R-45G90D100	EA	45G TOWER KIT, 90 MPH, NI, 100'	1,121.00	\$4,371.00
R-45G90D110	EA	45G TOWER KIT, 90 MPH, NI, 110'	1,202.00	\$4,643.00
R-45G90D120	EA	45G TOWER KIT, 90 MPH, NI, 120'	1,316.00	\$5,184.00
R-45G90D130	EA	45G TOWER KIT, 90 MPH, NI, 130'	1,394.00	\$5,450.00
R-45G90D140	EA	45G TOWER KIT, 90 MPH, NI, 140'	1,551.00	\$6,084.00
R-45G90D150	EA	45G TOWER KIT, 90 MPH, NI, 150'	1,638.00	\$6,365.00
R-45G90D160	EA	45G TOWER KIT, 90 MPH, NI, 160'	1,722.00	\$6,642.00
R-45G90D170	EA	45G TOWER KIT, 90 MPH, NI, 170'	1,898.00	\$7,312.00
R-45G90D180	EA	45G TOWER KIT, 90 MPH, NI, 180'	2,040.00	\$7,773.00
R-45G90D190	EA	45G TOWER KIT, 90 MPH, NI, 190'	2,138.00	\$8,074.00
R-45G90D200	EA	45G TOWER KIT, 90 MPH, NI, 200'	2,243.00	\$8,435.00
R-45G90D210	EA	45G TOWER KIT, 90 MPH, NI, 210'	2,442.00	\$9,268.00
R-45G90D220	EA	45G TOWER KIT, 90 MPH, NI, 220'	2,545.00	\$9,610.00
R-45G90D230	EA	45G TOWER KIT, 90 MPH, NI, 230'	2,724.00	\$10,247.00
R-45G90D240	EA	45G TOWER KIT, 90 MPH, NI, 240'	2,821.00	\$10,538.00
R-45JBK	EA	45G JOINT BOLT KIT	2,587.70	\$6.78
R-45RO	EA	45G INSULATOR SECTION, 10'-0"	0.70	\$1,504.00
R-45SS010	EA	45G SELF SUPPORT TOWER KIT, NI, 10'	173.00	\$458.00
R-45SS020	EA	45G SELF SUPPORT TOWER KIT, NI, 20'	169.00	\$709.00

**Commercial Price List**  
(Electronic Version)

Part#	UOM	Description	U/W	Price
R-45SS030	EA	45G SELF SUPPORT TOWER KIT, NI, 30'	225.00	\$960.00
R-45SS035	EA	45G SELF SUPPORT TOWER KIT, NI, 35'	260.00	\$1,210.00
R-45SS040	EA	45G SELF SUPPORT TOWER KIT, NI, 40'	281.00	\$1,215.00
R-45SS045	EA	45G SELF SUPPORT TOWER KIT, NI, 45'	316.00	\$1,461.00
R-45TDMKD	EA	45G TOP DISH MOUNT	140.30	\$513.00
R-45TG	EA	45G TAPERED BASE SECTION	61.20	\$835.00
R-45TGIA	EA	45G TAPERED BASE SECTION	113.40	\$870.00
R-45TGIA47	EA	45G TAPERED BASE SECTION	114.20	\$1,110.00
R-48JXXX	KIT	ANCHOR BOLT STR ASSY 48-1X78	0.00	\$4,131.00
R-4N	EA	SSV STANDARD SECTION, 20'	154.50	\$1,350.00
R-4NB	EA	SSV STRAIGHT SECTION, 10'	260.00	\$800.00
R-4NST	EA	SSV STRAIGHT SECTION, 20'	482.90	\$1,500.00
R-4TTN	EA	SSV TAPERED TOP ASSY FOR 3W, 4N	471.50	\$175.00
R-5/16CCF	EA	(REPLACED BY RADIAN PART 140022) CABLE CLAMP, HDG, FORGED, 5/16"	0.20	\$7.00
R-5/16EHS	FT	(REPLACED BY RADIAN PART 142265) GUY WIRE, HDG, 5/16" EHS	0.20	\$0.40
R-5/16THH	EA	THIMBLE, HEAVY, OPEN, 5/16"	27.50	\$1.50
R-5/8CCF	EA	(REPLACED BY RADIAN PART 140007) CABLE CLAMP, HDG, FORGED, 5/8"	1.10	\$6.18
R-5/8EHS	FT	GUY WIRE, HDG, 5/8" EHS	0.10	\$1.40
R-5/8FG	EA	(REPLACED BY RADIAN PART 140226) FIST GRIP, HDG, 5/8"	1.00	\$17.00
R-5/8S	EA	SHACKLE, ROUND PIN, 5/8"	0.40	\$28.00
R-5/8STEP	EA	STEP BOLT ASSY, HDG, 5/8", WITH 2 HEX NUTS	1.20	\$5.12
R-5/8TBE&J	EA	TURNBUCKLE, HDG, 5/8" X 12" EYE & JAW	4.00	\$110.00
R-5/8THH	EA	(REPLACED BY RADIAN PART 140077) THIMBLE, HEAVY, OPEN, 5/8"	0.50	\$2.75
R-5/8X12BB	EA	BASE BOLT, HDG, 5/8"	1.30	\$12.00
R-5/8X42AB	EA	ANCHOR BOLT ASSY 5/8" X 42"	4.00	\$50.00
R-500288	EA	GUY ASSY, INSULATOR, FIBERGLASS, 24', 15X LBS, FOR 3/16" TO 3/8" EHS	6.50	\$149.00
R-502	EA	GUY STRAIN INSULATOR, PORCELAIN, 10,000 LBS US	1.00	\$14.00
R-504	EA	GUY STRAIN INSULATOR, PORCELAIN, 12,000 LBS US	1.50	\$19.00
R-506	EA	GUY STRAIN INSULATOR, PORCELAIN, 20,000 LBS US	3.00	\$25.00
R-50714	EA	BULB RECEPTACLE, OB	0.10	\$15.00
R-510144	EA	TERMINAL SPLICE UNINSULATED 2A22-20	0.10	\$0.33
R-510168	EA	TIMER OSCILLATOR MOT. #LM555CN	0.10	\$2.10
R-510171	EA	SUPPRESSOR SEMICON 1.5SE27C	0.10	\$7.30
R-510172	EA	SUPPRESSOR MOV 150VRMS	0.10	\$10.00
R-510172A	EA	SUPPRESSOR MOV W/2 TERMINALS	0.10	\$15.00
R-510196	EA	SILICON PAD 1.75" X 2.25" X 7MIL	0.10	\$6.12
R-510207	EA	SUPPRESSOR MOV 250VRMS	0.10	\$3.74
R-520001	FT	CONDUIT 3/4" RANDOM LENGTH	1.10	\$38.00
R-520002	EA	LOCKNUT 3/4" CONDUIT LN102 ST	0.02	\$0.30
R-520006	EA	COUPLING 3/4" 3PC UNION GALV	0.10	\$12.00
R-520009	EA	NIPPLE 3/4" X 18" GALV CONDUIT	1.60	\$9.90
R-520013	EA	PLUG 3/4" PLASTIC PIPE TP-9	0.10	\$0.60
R-520028	EA	ELBOW 3/4" SHORT CONDUIT	0.10	\$8.50
R-520029	FT	CONDUIT 1/2" RANDOM LENGTH	0.80	\$36.00
R-520041	EA	COUPLING 1/2" 3PC UNION GALV	0.10	\$9.25
R-520062	EA	COUPLING 3/4" GALV FOR RIGID CONDUIT	0.10	\$1.85
R-530230	EA	LENS, RED, FOR OB LIGHTS	1.60	\$64.00

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Part#	DOM	Description	U/W	Price
R-5545G	EA	55G ADAPTER TO 45G	166.70	\$805.00
R-556	EA	GUY STRAIN INSULATOR, PORCELAIN, 33,000 LBS US	4.50	\$17.00
R-559	EA	GUY STRAIN INSULATOR, PORCELAIN, 33,000 LBS US	4.50	\$188.00
R-55BRKT040	EA	55G BRACKETED TOWER KIT, NI, 40'	555.50	\$1,795.00
R-55BRKT050	EA	55G BRACKETED TOWER KIT, NI, 50'	655.10	\$2,121.00
R-55BRKT060	EA	55G BRACKETED TOWER KIT, NI, 60'	754.60	\$2,446.00
R-55BRKT070	EA	55G BRACKETED TOWER KIT, NI, 70'	854.20	\$2,772.00
R-55BRKT080	EA	55G BRACKETED TOWER KIT, NI, 80'	953.80	\$3,097.00
R-55BRKT090	EA	55G BRACKETED TOWER KIT, NI, 90'	1,052.70	\$3,423.00
R-55BRKT100	EA	55G BRACKETED TOWER KIT, NI, 100'	1,156.80	\$3,748.00
R-55G	EA	55G STANDARD SECTION, 10'-0"	99.60	\$326.00
R-55G110D100	EA	55G TOWER KIT, 110 MPH, NI, 100'	1,556.00	\$5,766.00
R-55G110D110	EA	55G TOWER KIT, 110 MPH, NI, 110'	1,674.00	\$6,126.00
R-55G110D120	EA	55G TOWER KIT, 110 MPH, NI, 120'	1,789.00	\$6,480.00
R-55G110D130	EA	55G TOWER KIT, 110 MPH, NI, 130'	1,899.00	\$6,825.00
R-55G110D140	EA	55G TOWER KIT, 110 MPH, NI, 140'	2,104.00	\$7,592.00
R-55G110D150	EA	55G TOWER KIT, 110 MPH, NI, 150'	2,214.00	\$7,937.00
R-55G110D160	EA	55G TOWER KIT, 110 MPH, NI, 160'	2,332.00	\$8,295.00
R-55G110D170	EA	55G TOWER KIT, 110 MPH, NI, 170'	2,470.00	\$8,697.00
R-55G110D180	EA	55G TOWER KIT, 110 MPH, NI, 180'	2,606.00	\$10,380.00
R-55G110D190	EA	55G TOWER KIT, 110 MPH, NI, 190'	2,955.00	\$10,776.00
R-55G70D100	EA	55G TOWER KIT, 70 MPH, NI, 100'	1,396.00	\$4,975.00
R-55G70D110	EA	55G TOWER KIT, 70 MPH, NI, 110'	1,504.00	\$5,317.00
R-55G70D120	EA	55G TOWER KIT, 70 MPH, NI, 120'	1,687.00	\$6,004.00
R-55G70D130	EA	55G TOWER KIT, 70 MPH, NI, 130'	1,791.00	\$6,338.00
R-55G70D140	EA	55G TOWER KIT, 70 MPH, NI, 140'	1,902.00	\$6,685.00
R-55G70D150	EA	55G TOWER KIT, 70 MPH, NI, 150'	2,012.00	\$7,030.00
R-55G70D160	EA	55G TOWER KIT, 70 MPH, NI, 160'	2,122.60	\$7,376.00
R-55G70D170	EA	55G TOWER KIT, 70 MPH, NI, 170'	2,352.00	\$8,397.00
R-55G70D180	EA	55G TOWER KIT, 70 MPH, NI, 180'	2,465.00	\$8,746.00
R-55G70D190	EA	55G TOWER KIT, 70 MPH, NI, 190'	2,578.00	\$9,097.00
R-55G70D200	EA	55G TOWER KIT, 70 MPH, NI, 200'	2,693.00	\$9,453.00
R-55G70D210	EA	55G TOWER KIT, 70 MPH, NI, 210'	2,804.00	\$9,798.00
R-55G70D220	EA	55G TOWER KIT, 70 MPH, NI, 220'	3,128.00	\$10,599.00
R-55G70D230	EA	55G TOWER KIT, 70 MPH, NI, 230'	3,138.00	\$10,944.00
R-55G70D240	EA	55G TOWER KIT, 70 MPH, NI, 240'	3,337.00	\$11,525.00
R-55G70D250	EA	55G TOWER KIT, 70 MPH, NI, 250'	3,455.00	\$11,875.00
R-55G70D260	EA	55G TOWER KIT, 70 MPH, NI, 260'	3,678.00	\$12,793.00
R-55G70D270	EA	55G TOWER KIT, 70 MPH, NI, 270'	3,800.00	\$13,159.00
R-55G70D280	EA	55G TOWER KIT, 70 MPH, NI, 280'	3,922.00	\$13,525.00
R-55G70D290	EA	55G TOWER KIT, 70 MPH, NI, 290'	4,041.00	\$13,886.00
R-55G70D300	EA	55G TOWER KIT, 70 MPH, NI, 300'	4,260.00	\$14,636.00
R-55G70D310	EA	55G TOWER KIT, 70 MPH, NI, 310'	4,379.00	\$14,998.00
R-55G70D320	EA	55G TOWER KIT, 70 MPH, NI, 320'	4,499.00	\$15,359.00
R-55G70D330	EA	55G TOWER KIT, 70 MPH, NI, 330'	4,634.00	\$15,748.00
R-55G70D340	EA	55G TOWER KIT, 70 MPH, NI, 340'	4,873.00	\$16,573.00
R-55G70D350	EA	55G TOWER KIT, 70 MPH, NI, 350'	5,040.00	\$17,090.00
R-55G70D360	EA	55G TOWER KIT, 70 MPH, NI, 360'	5,153.00	\$17,512.00
R-55G70D370	EA	55G TOWER KIT, 70 MPH, NI, 370'	5,268.00	\$17,868.00

Part#	UOM	Description	U/W	Price
R-55G70D380	EA	55G TOWER KIT, 70 MPH, NI, 380'	5,560.00	\$19,209.00
R-55G70D390	EA	55G TOWER KIT, 70 MPH, NI, 390'	5,670.00	\$19,531.00
R-55G70D400	EA	55G TOWER KIT, 70 MPH, NI, 400'	5,831.00	\$20,207.00
R-55G90D100	EA	55G TOWER KIT, 90 MPH, NI, 100'	1,495.00	\$5,575.00
R-55G90D110	EA	55G TOWER KIT, 90 MPH, NI, 110'	1,606.00	\$5,922.00
R-55G90D120	EA	55G TOWER KIT, 90 MPH, NI, 120'	1,717.00	\$6,268.00
R-55G90D130	EA	55G TOWER KIT, 90 MPH, NI, 130'	1,827.00	\$6,613.00
R-55G90D140	EA	55G TOWER KIT, 90 MPH, NI, 140'	2,017.00	\$7,351.00
R-55G90D150	EA	55G TOWER KIT, 90 MPH, NI, 150'	2,129.00	\$7,701.00
R-55G90D160	EA	55G TOWER KIT, 90 MPH, NI, 160'	2,304.00	\$8,246.00
R-55G90D170	EA	55G TOWER KIT, 90 MPH, NI, 170'	2,370.00	\$8,436.00
R-55G90D180	EA	55G TOWER KIT, 90 MPH, NI, 180'	2,576.00	\$9,216.00
R-55G90D190	EA	55G TOWER KIT, 90 MPH, NI, 190'	2,765.00	\$9,794.00
R-55G90D200	EA	55G TOWER KIT, 90 MPH, NI, 200'	2,885.00	\$10,157.00
R-55G90D210	EA	55G TOWER KIT, 90 MPH, NI, 210'	3,003.00	\$10,515.00
R-55G90D220	EA	55G TOWER KIT, 90 MPH, NI, 220'	3,236.00	\$11,454.00
R-55G90D230	EA	55G TOWER KIT, 90 MPH, NI, 230'	3,354.00	\$11,814.00
R-55G90D240	EA	55G TOWER KIT, 90 MPH, NI, 240'	3,567.00	\$12,547.00
R-55G90D250	EA	55G TOWER KIT, 90 MPH, NI, 250'	3,684.00	\$12,905.00
R-55G90D260	EA	55G TOWER KIT, 90 MPH, NI, 260'	3,807.00	\$13,253.00
R-55G90D270	EA	55G TOWER KIT, 90 MPH, NI, 270'	4,141.00	\$14,966.00
R-55G90D280	EA	55G TOWER KIT, 90 MPH, NI, 280'	4,368.00	\$15,498.00
R-55G90D290	EA	55G TOWER KIT, 90 MPH, NI, 290'	4,485.00	\$15,852.00
R-55G90D300	EA	55G TOWER KIT, 90 MPH, NI, 300'	4,685.00	\$16,341.00
R-55GDB	EA	55G DOUBLE BRACED SECTION, 10'-0"	138.50	\$800.00
R-55JBK	EA	55G JOINT BOLT KIT	1.00	\$4.30
R-55SS010	EA	55G SELF SUPPORT TOWER KIT, NI, 10'	214.80	\$970.00
R-55SS020	EA	55G SELF SUPPORT TOWER KIT, NI, 20'	314.80	\$1,296.00
R-55SS030	EA	55G SELF SUPPORT TOWER KIT, NI, 30'	414.80	\$1,621.00
R-55SS035	EA	55G SELF SUPPORT TOWER KIT, NI, 35'	465.80	\$1,891.00
R-55SS040	EA	55G SELF SUPPORT TOWER KIT, NI, 40'	514.80	\$1,947.00
R-55SS045	EA	55G SELF SUPPORT TOWER KIT, NI, 45'	565.80	\$2,216.00
R-55SS050	EA	55G SELF SUPPORT TOWER KIT, NI, 50'	614.80	\$2,119.00
R-55SS055	EA	55G SELF SUPPORT TOWER KIT, NI, 55'	665.80	\$2,542.00
R-55SS060	EA	55G SELF SUPPORT TOWER KIT, NI, 60'	714.80	\$2,598.00
R-55TDM25S3KD	EA	55G TOP DISH MOUNT, 2.5" PIPE	107.60	\$585.00
R-55TDM2S3KD	EA	55G TOP DISH MOUNT, 2" PIPE	91.70	\$540.00
R-55TDM35S3KD	EA	55G TOP DISH MOUNT, 3.5" PIPE	133.60	\$615.00
R-55TDM4S3KD	EA	55G TOP DISH MOUNT, 4" PIPE	144.60	\$640.00
R-55TDMKD	EA	55G TOP DISH MOUNT	64.60	\$480.00
R-55TG	EA	55G TAPERED BASE SECTION	155.40	\$885.00
R-55TGIA	EA	55G TAPERED BASE SECTION	156.20	\$920.00
R-55TGIAA	EA	55G TAPERED BASE SECTION	156.50	\$920.00
R-5N	EA	SSV STANDARD TOWER SECTION, 20'	579.30	\$1,650.00
R-5NB	EA	SSV STRAIGHT SECTION, 10'	315.00	\$1,200.00

### Commercial Price List

(Electronic Version)

Part#	UOM	Description	U/W	Price
R-5NST	EA	SSV STRAIGHT SECTION, 20'	591.00	\$1,750.00
R-5TTN	EA	SSV TAPERED TOP ASSY FOR 4N, 5N	53.90	\$201.00
R-6154H	EA	RELAY 25A/250V (600V PEAK) D2460	0.10	\$84.00
R-618	EA	GUY WIRE 1000' CLS STEEL STRANDED 180A	32.00	\$92.00
R-61820GRPL	EA	TENSION AND TERMINATION DEVICE FOR 618 & 620 GUY WIRE	0.13	\$2.62
R-620	EA	GUY WIRE 1000' CLS STEEL STRANDED 200A	19.00	\$48.00
R-6520DB	EA	65G DOUBLE BRACED SECTION, 20'-0"	519.50	\$2,080.00
R-6520G	EA	65G SECTION, 20'-0"	367.50	\$1,043.00
R-65G	EA	65G STANDARD SECTION, 10'-0"	193.50	\$815.00
R-65SS010	EA	65G SELF SUPPORT TOWER KIT, NI, 10'	307.80	\$1,387.00
R-65SS020	EA	65G SELF SUPPORT TOWER KIT, NI, 20'	481.80	\$1,908.00
R-65SS030	EA	65G SELF SUPPORT TOWER KIT, NI, 30'	675.80	\$2,428.00
R-65SS035	EA	65G SELF SUPPORT TOWER KIT, NI, 35'	766.80	\$3,527.00
R-65SS040	EA	65G SELF SUPPORT TOWER KIT, NI, 40'	849.80	\$1,908.00
R-65SS045	EA	65G SELF SUPPORT TOWER KIT, NI, 45'	952.80	\$2,515.00
R-65SS050	EA	65G SELF SUPPORT TOWER KIT, NI, 50'	1,101.80	\$3,938.00
R-65SS055	EA	65G SELF SUPPORT TOWER KIT, NI, 55'	1,192.80	\$5,038.00
R-65SS060	EA	65G SELF SUPPORT TOWER KIT, NI, 60'	1,275.80	\$3,418.00
R-65SS070	EA	65G SELF SUPPORT TOWER KIT, NI, 70'	1,527.80	\$3,938.00
R-65SS080	EA	65G SELF SUPPORT TOWER KIT, NI, 80'	1,701.80	\$3,418.00
R-6N	EA	SSV STANDARD SECTION, 20'	513.80	\$1,600.00
R-6NABD	EA	SSV ANCHOR BOLT ASSY	49.30	\$465.00
R-6NST	EA	SSV STRAIGHT SECTION, 20'	568.80	\$1,750.00
R-6TT	EA	SSV TAPERED TOP ASSY FOR 5N, 6N	44.60	\$232.00
R-7/16CCF	EA	(REPLACED BY RADIAN PART 14004) CABLE CLAMP, HDG, FORGED, 7/16"	0.80	\$2.88
R-7/16EHS	FT	(REPLACED BY RADIAN PART 142260) GUY WIRE, HDG, 7/16" EHS	0.40	\$0.64
R-7/16THH	EA	THIMBLE, HEAVY, OPEN, 7/16"	0.30	\$3.70
R-7/8EHS	FT	(REPLACED BY RADIAN PART 142256) GUY WIRE, HDG, 7/8" EHS	1.60	\$3.65
R-7/8FISTGR	EA	(REPLACED BY RADIAN PART 140228) FIST GRIP, HDG, 7/8"	2.25	\$30.00
R-7/8S	EA	SHACKLE, ROUND PIN, 7/8"	3.40	\$36.00
R-7/8TB&J	EA	TURNBUCKLE, HDG, 7/8" X 12" EYE & 1AW	8.00	\$196.00
R-7/8THH	EA	(REPLACED BY RADIAN PART 140079) THIMBLE, HEAVY, OPEN, 7/8"	1.50	\$7.20
R-703288	EA	GUY ASSY, INSULATOR, FIBERGLASS, 24", 30K LBS, FOR 3/16" TO 1/2" EHS	14.50	\$242.00
R-711130	EA	SCREEN, RED FILTER	4.30	\$110.00
R-72JXXX	KIT	ANCHOR BOLT STR ASSY 72-1X78	0.00	\$6,542.00
R-7N	EA	SSV STANDARD SECTION, 20'	572.80	\$1,600.00
R-7NBASE	EA	SSV BASE SECTION, 20'	567.60	\$1,475.00
R-7NST	EA	SSV STRAIGHT SECTION, 20'	635.30	\$1,750.00
R-800288	EA	GUY ASSY, INSULATOR, FIBERGLASS, 24", 30K LBS, FOR 9/16" TO 7/8" EHS	44.00	\$477.00
R-8N	EA	SSV STANDARD SECTION, 20'	720.00	\$1,750.00
R-8NST	EA	SSV STRAIGHT SECTION, 20'	820.00	\$1,850.00
R-9/16CCF	EA	(REPLACED BY RADIAN PART 14006) CABLE CLAMP, HDG, FORGED, 9/16"	1.04	\$6.40
R-9/16EHS	FT	(REPLACED BY RADIAN PART 142258) GUY WIRE, HDG, 9/16" EHS	0.67	\$0.99
R-9/16THH	EA	(REPLACED BY RADIAN PART 140075) THIMBLE, HEAVY, OPEN, 9/16"	0.51	\$3.28
R-9842L	EA	GROUND CLAMP, FOR USE WITH 7/8" TO 1" GUY WIRE	0.76	\$28.00

**Commercial Price List**  
(Electronic Version)

June 15, 2005

Part#	UOM	Description	U/W	Price
R-9N	EA	SSV STANDARD SECTION, 20'	770.00	\$2,040.00
R-9NH	EA	SSV HEAVY SECTION, 20'	885.00	\$2,218.00
R-A5PCBA	EA	PCB ASSY A5	5.00	\$450.00
R-AAGM35	EA	NON-PENETRATING ROOF MOUNT - MAST 3-1/2" O.D., 54" HEIGHT	596.00	\$1,255.00
R-AAGM40	EA	NON-PENETRATING ROOF MOUNT - MAST 4" O.D., 54" OVERALL HEIGHT	693.00	\$1,265.00
R-AAGM45	EA	NON-PENETRATING ROOF MOUNT - MAST 4-1/2" O.D., 54" HEIGHT	611.00	\$1,276.00
R-AAGM55	EA	NON-PENETRATING ROOF MOUNT - MAST 5-1/2" O.D., 54" HEIGHT	628.00	\$1,286.00
R-AAGM65	EA	NON-PENETRATING ROOF MOUNT - MAST 6-5/8" O.D., 54" HEIGHT	664.00	\$1,157.00
R-AAGM6560	EA	NON-PENETRATING ROOF MOUNT - MAST 6-5/8" O.D., 60" HEIGHT	693.00	\$1,428.00
R-AB	EA	45G AMATEUR BEARING FOR 45AG4	1.00	\$7.85
R-ACLADHH	EA	ANTI-CLIMB ASSY HEAVY	140.00	\$586.00
R-ACLADS	EA	ANTI-CLIMB ASSY STANDARD	100.00	\$425.00
R-ACWS	EA	ANTI-CLIMB WARNING SIGN	0.20	\$7.00
R-AGKIG	EA	GROUNDING KIT, GUY ANCHOR WIRE (3)	30.00	\$138.00
R-AGMPAD	EA	ROOF PADS, 3/8" THICK FOR AAGM MOUNTS	161.00	\$434.00
R-AGW8	EA	GROUND WIRE, NO. 8, ALUM 1000 CLS	0.02	\$295.00
R-AP3555	EA	LENS BEACON BOTTOM 6150 RED	11.00	\$210.00
R-AP3556	EA	LENS BEACON MIDDLE 6150 RED	14.00	\$250.00
R-AP3557	EA	LENS BEACON TOP 6150 RED	6.00	\$150.00
R-APL1258UM	EA	BEACON MOUNT, LEG, UNIVERSAL	30.00	\$196.00
R-APL1W2WA	EA	BEACON MOUNT, LEG, 1W OR 2W TOWER SECTION	26.00	\$150.00
R-APL25G	EA	25G TOP BEACON PLATE	14.00	\$74.00
R-APL3WNA	EA	BEACON MOUNT, LEG, 3WN TOWER SECTION	23.00	\$150.00
R-APL45G	EA	45G BEACON PLATE	17.00	\$156.00
R-APL4A	EA	BEACON MOUNT, TOP PLATE, 4N	13.00	\$120.00
R-APL4EA	EA	BEACON MOUNT, TOP PLATE, 5N & 6N	15.00	\$120.00
R-APL55G	EA	55G BEACON PLATE	20.00	\$135.00
R-APL5A	EA	BEACON MOUNT, TOP PLATE, 5'	15.00	\$120.00
R-APL6A	EA	BEACON MOUNT, TOP PLATE, 6'	16.00	\$120.00
R-APL7A	EA	BEACON MOUNT, TOP PLATE, 7'	17.00	\$120.00
R-AS25G	EA	25G TOP SINGLE ACCESSORY SHELF	4.00	\$46.00
R-AS455G	EA	45G & 55G ACCESSORY SHELF	8.00	\$104.00
R-B1R	EA	BEACON WIRE RED GLASS-NO BULBS	77.00	\$1,000.00
R-B620W	EA	BULB, BEACON, 120V 620PS40P GE	0.01	\$30.00
R-B700W230V	EA	BULB, BEACON, 230V, 6000 HRS	0.01	\$115.00
R-BAS25G	EA	25G ACCESSORY SHELF, W/TOP BRG, 1.5'	18.00	\$144.00
R-BC12	EA	BEAM CLAMP, 1/2"	0.30	\$15.00
R-BC38	EA	BEAM CLAMP, 3/8"	0.10	\$10.50
R-BG2111	EA	BIG GRIP, 5/8", WITH END SLEEVE	6.50	\$80.00
R-BG2112	EA	BIG GRIP, 3/4", WITH END SLEEVE	10.80	\$125.00
R-BG2115	EA	BIG GRIP, 1/2", WITH END SLEEVE	3.15	\$35.00
R-BG2116	EA	BIG GRIP, 9/16", WITH END SLEEVE	4.80	\$50.00
R-BG2142	EA	BIG GRIP, 3/16", WITH END SLEEVE	0.33	\$11.00
R-BG2144	EA	BIG GRIP, 1/4", WITH END SLEEVE	0.50	\$13.00
R-BG2146	EA	BIG GRIP, 5/16", WITH END SLEEVE	0.82	\$15.00



**Commercial Price List**  
(Electronic Version)

Part#	UOM	Description	U/W	Price
R-BG2147	EA	BIG GRIP, 3/8", WITH END SLEEVE	1.12	\$20.00
R-BG2148	EA	BIG GRIP, 7/16", WITH END SLEEVE	1.88	\$24.00
R-BGK1G	EA	GROUNDING KIT, BASE, FOR 4000 AND C TOWERS	10.00	\$48.00
R-BGK2G	EA	GROUNDING KIT, BASE, FOR J, 55G AND 65G TOWERS	10.80	\$48.00
R-BGK3G	EA	GROUNDING KIT, BASE, FOR 25G, 26KD AND 45G TOWERS	10.40	\$48.00
R-BGK4G	EA	GROUNDING KIT, BASE, FOR 1/2" ANCHOR BOLTS	10.80	\$48.00
R-BGK5G	EA	GROUNDING KIT, BASE, FOR 5/8" ANCHOR BOLTS	10.80	\$48.00
R-BGK6G	EA	GROUNDING KIT, BASE, FOR 3/4" ANCHOR BOLTS	11.00	\$48.00
R-BGK7G	EA	GROUNDING KIT, BASE, FOR 7/8" ANCHOR BOLTS	11.00	\$48.00
R-BGK8G	EA	GROUNDING KIT, BASE, FOR 1" ANCHOR BOLTS	2.60	\$48.00
R-BGMS7023	EA	BIG GRIP, 7/8", WITH END SLEEVE	11.25	\$220.00
R-BGMS7047	EA	BIG GRIPS, 1", WITH END SLEEVE	25.40	\$500.00
R-BGSR	EA	GASKET KIT (SET OF 5) FOR BIR BEACON	1.00	\$37.00
R-BL250	EA	GROUND LUG, #2 THRU 4/0 WIRE	0.16	\$11.00
R-BL250A	EA	GROUND LUG, #2 THRU 4/0 WIRE, WITH 1/4" BOLT & NUT	0.16	\$26.00
R-BP25G	EA	25G BASE PLATE FOR DRIVE RODS	7.20	\$56.00
R-BP5125B	EA	PLATE BACKER	0.19	\$1.00
R-BP8250	EA	BACKING PLATE FOR TB8250	1.00	\$7.80
R-BPC25G	EA	25G CONCRETE BASE PLATE	27.00	\$74.00
R-BPC45G	EA	45G CONCRETE BASE PLATE	39.00	\$115.00
R-BPC55G	EA	55G CONCRETE BASE PLATE	40.00	\$136.00
R-BPH25G	EA	25G HINGED BASE PLATE	21.00	\$230.00
R-BPH45G	EA	45G HINGED BASE PLATE	80.00	\$550.00
R-BPL25G	EA	25G TOP BEARING PLATE	12.40	\$103.00
R-BPL45G	EA	45G TOP PLATE FOR TB3 & TB4 BEARINGS	28.76	\$203.00
R-BPL55G	EA	55G TOP PLATE FOR TB3 & TB4 BEARINGS	18.00	\$248.00
R-BRM425	EA	NON-PENETRATING ROOF MOUNT - MAST 2-1/2" O.D., 36" HEIGHT	125.00	\$437.00
R-BRM42510	EA	NON-PENETRATING ROOF MOUNT - MAST 2-1/2" O.D., 10' HEIGHT	243.00	\$403.00
R-BRM430	EA	NON-PENETRATING ROOF MOUNT - MAST 3" O.D., 36" HEIGHT	132.00	\$442.00
R-BRM435	EA	NON-PENETRATING ROOF MOUNT - MAST 3-1/2" O.D., 36" HEIGHT	137.00	\$447.00
R-BRM43510	EA	NON-PENETRATING ROOF MOUNT - MAST 3-1/2" O.D., 10' HEIGHT	265.00	\$456.00
R-BRM440	EA	NON-PENETRATING ROOF MOUNT - MAST 4" O.D., 36" HEIGHT	142.00	\$451.00
R-BRM445	EA	NON-PENETRATING ROOF MOUNT - MAST 4-1/2" O.D., 36" HEIGHT	147.00	\$484.00
R-BRM44510	EA	NON-PENETRATING ROOF MOUNT - MAST 4-1/2" O.D., 10' HEIGHT	316.00	\$764.00
R-BRM455	EA	BRM4 SERIES BALLAST ROOF MOUNT	391.00	\$814.00
R-BRM4MAT	EA	ROOF MATS, 1/8" THICK FOR BRM4 MOUNTS	20.00	\$157.00
R-BRM4PAD	EA	ROOF PADS, 3/8" THICK FOR BRM4 MOUNTS	60.00	\$101.00
R-BRM630M	EA	NON-PENETRATING ROOF MOUNT - MAST 3" O.D., 48" HEIGHT	245.00	\$782.00
R-BRM635M	EA	NON-PENETRATING ROOF MOUNT - MAST 3-1/2" O.D., 48" HEIGHT	258.00	\$543.00
R-BRM640M	EA	NON-PENETRATING ROOF MOUNT - MAST 4" O.D., 48" HEIGHT	258.00	\$405.00
R-BRM64510M	EA	NON-PENETRATING ROOF MOUNT - MAST 4-1/2" O.D., 10' HEIGHT	323.00	\$723.00
R-BRM645M	EA	NON-PENETRATING ROOF MOUNT - MAST 4-1/2" O.D., 48" HEIGHT	271.00	\$571.00
R-BRM655M	EA	NON-PENETRATING ROOF MOUNT - MAST 5-9/16" O.D., 48" HEIGHT	287.00	\$567.00

**Commercial Price List**  
(Electronic Version)

Part#	UOM	Description	U/W	Price
R-BRM665M	EA	NON-PENETRATING ROOF MOUNT - MAST 6-5/8" O.D., 48" HEIGHT	304.00	\$621.00
R-BRM6MAT	EA	ROOF MATS, 1/8" THICK FOR BRM6 MOUNTS	35.00	\$108.00
R-BRM6PAD	EA	ROOF PADS, 3/8" THICK FOR BRM6 MOUNTS	80.00	\$205.00
R-CAP31/2	EA	CAP POST WG FOR 3-1/2 STD FI	0.10	\$1.27
R-CB1	EA	BREATHER 3/4" CONDUIT	0.50	\$12.00
R-CC34SSA	EA	CLAMP ASSY CONDUIT 3/4" W/HARDWARE	0.20	\$4.01
R-CP5A	EA	CAP PLATE ASSY W/HARDWARE	15.00	\$60.00
R-CP6A	EA	CAP PLATE ASSY W/HARDWARE	15.00	\$60.00
R-CP7A	EA	CAP PLATE ASSY W/HARDWARE	15.00	\$76.00
R-CW1/0ST	FT	(REPLACED BY RADIAN PART 150057) WIRE, COPPER, STRANDED, 1/0	0.32	\$5.82
R-CW10S	FT	(REPLACED BY RADIAN PART 150053) WIRE, COPPER, SOLID, #10	0.03	\$0.33
R-CW2/0ST	FT	WIRE, COPPER, STRANDED, 2/0	0.41	\$2.70
R-CW2S	FT	(REPLACED BY RADIAN PART 150056) WIRE, COPPER, SOLID, #2	0.20	\$4.75
R-CW4/0ST	FT	WIRE, COPPER, STRANDED, 4/0	0.65	\$3.85
R-CW4S	FT	WIRE, COPPER, SOLID, #4	0.13	\$0.85
R-CW4ST	FT	WIRE, COPPER, STRANDED, #4	0.13	\$0.85
R-CW6S	FT	(REPLACED BY RADIAN PART 150090) WIRE, COPPER, SOLID, #6	0.08	\$0.54
R-D1130	EA	25G SIDE ARM MOUNT	70.00	\$224.00
R-D1230	EA	25G SIDE ARM MOUNT	90.00	\$260.00
R-D1330	EA	25G SIDE ARM MOUNT	70.00	\$224.00
R-D1430	EA	25G SIDE ARM MOUNT	75.00	\$260.00
R-DDM150	EA	25G DISH MOUNT 1.5' X 3' DBS	11.00	\$129.00
R-DDM166	EA	25G DISH MOUNT 1.66' X 3' DBS	15.00	\$162.00
R-DDM238	EA	25G DISH MOUNT 2.375' X 3' DBS	19.00	\$172.00
R-DM25G2	EA	25G FACE DISH MOUNT	42.00	\$205.00
R-DM454	EA	45G FACE DISH MOUNT	88.00	\$221.00
R-DM45G2	EA	45G FACE DISH MOUNT	52.00	\$194.00
R-DM554	EA	55G FACE DISH MOUNT	89.00	\$200.00
R-DM55G2	EA	55G FACE DISH MOUNT	53.00	\$184.00
R-EB2525G	EA	25G UNIVERSAL EAVE BRACKET	7.80	\$60.00
R-EB38SS2	EA	EYE BOLT ASSY 3/8" W/DEFORMED THREAD	0.30	\$24.00
R-EP2545	EA	25G & 45G TOWER ERECTION FIXTURE, 12'	20.40	\$750.00
R-EP25343	EA	EQUALIZER PLATE ASSY 25 3-HOLE	5.40	\$25.00
R-EP25345	EA	EQUALIZER PLATE ASSY 25 5-HOLE	7.90	\$36.00
R-FA1C	EA	LIGHTING KIT LESS WIRE & CONDUIT	137.00	\$3,300.00
R-FA1CE	EA	LIGHTING KIT LESS WIRE & CONDUIT 230V	138.00	\$4,420.00
R-FA1CEW&C	LF	WIRE & CONDUIT FOR FA1CE	0.00	\$4.00
R-FA1CM	EA	LIGHTING KIT WITH ALARM LESS WIRE & CONDUIT	147.00	\$4,940.00
R-FA1CMV&C	LF	WIRE & CONDUIT FOR FA1CM	0.00	\$4.00
R-FA1CW&C	LF	WIRE & CONDUIT FOR FA1C	0.00	\$4.00
R-FA1SSX1P	EA	CONTROL 1 CIRCUIT FLASHER AND PHOTOCELL	19.00	\$965.00
R-FA1SSX2	EA	CONTROL 1 CIRCUIT FLASHER ONLY	4.00	\$625.00
R-FAKIT15	EA	LIGHTING CONVERSION KIT 8.1-15	25.00	\$192.00
R-FAKIT8	EA	LIGHTING CONVERSION KIT 3.5-8'	10.00	\$73.00
R-FR25G	EA	25G BASE FOR FLAT ROOF MOUNT	24.00	\$170.00
R-FR45G	EA	45G BASE FOR FLAT ROOF MOUNT	34.00	\$192.00
R-FRM125	EA	NON-PENETRATING ROOF MOUNT - 1.25' O.D. TUBING, 60' HEIGHT	32.00	\$90.00

### Commercial Price List

(Electronic Version)

Part#	UOM	Description	U/W	Price
R-FRM150	EA	NON-PENETRATING ROOF MOUNT - 1.50" O.D. TUBING, 30" HEIGHT	32.00	\$82.00
R-FRM166	EA	NON-PENETRATING ROOF MOUNT - 1.66" O.D. TUBING, 30" HEIGHT	33.00	\$105.00
R-FRM238	EA	NON-PENETRATING ROOF MOUNT - 2.38" O.D. PIPE, 5' LONG	37.00	\$95.00
R-FRM238SP5	EA	NON-PENETRATING ROOF MOUNT - 2.38" O.D. PIPE, 30" HEIGHT	53.00	\$111.00
R-FRMMAT	EA	ROOF MATS, 1/8" THICK FOR FRM MOUNTS	3.00	\$12.00
R-FRMPAD	EA	FRM ROOF PAD SET	80.00	\$37.00
R-GA25GD	EA	25G GUY BRACKET ASSEMBLY W/HARDWARE	14.00	\$108.00
R-GA45GD	EA	45G GUY BRACKET ASSEMBLY W/HARDWARE	23.00	\$146.00
R-GA55GD	EA	55G GUY BRACKET ASSEMBLY W/HARDWARE	27.00	\$153.00
R-GA65GD	EA	65G GUY BRACKET ASSEMBLY W/HARDWARE	36.00	\$185.00
R-GAC303	EA	ANCHOR ROD, EE, TO 7330 LBS	12.00	\$66.00
R-GAC305	EA	ANCHOR ROD, EE, TO 7330 LBS	13.00	\$74.00
R-GAC345STOP	EA	ANCHOR ROD, 3455 .75" DIA X 7'	25.00	\$125.00
R-GAC565STOP	EA	ANCHOR ROD, 5655 1.25" DIA X 10'	65.00	\$320.00
R-GAC575STOP	EA	ANCHOR ROD, 5755 1.44" DIA X 14'	125.00	\$540.00
R-GAC585STOP	EA	ANCHOR ROD, 5855 1.25" DIA X 16' DR	220.00	\$1,200.00
R-GAC595STOP	EA	ANCHOR ROD, 5955 1.44" DBL R 20'	310.00	\$1,300.00
R-GAR30	EA	ANCHOR ROD, EYE, TO 7330 LBS	9.00	\$39.00
R-GAS430	EA	SCREW TYPE EARTH ANCHOR, 30" X 1/2"	3.00	\$15.00
R-GAS604	EA	SCREW ANCHOR, 5/8" X 4", TO 2,500 LBS	7.00	\$44.00
R-GB25D	EA	25G GUY BRACKET 1.5" X .25"	1.70	\$7.20
R-GB45D	EA	45G GUY BRACKET 2" X .38"	4.80	\$8.55
R-GC65128	EA	END SLEEVE, HDG, 5/16"	0.03	\$4.86
R-GC65136	EA	END SLEEVE, HDG, 3/4"	0.03	\$4.30
R-GC65264	EA	END SLEEVE, HDG, 3/8"	0.05	\$5.00
R-GC65265	EA	END SLEEVE, HDG, 7/16"	0.07	\$5.20
R-GC65266	EA	END SLEEVE, HDG, 1/2"	0.10	\$5.40
R-GC65267	EA	END SLEEVE, HDG, 9/16"	0.11	\$5.60
R-GC65268	EA	END SLEEVE, HDG, 5/8"	0.14	\$7.58
R-GC65269	EA	END SLEEVE, HDG, 3/4"	0.21	\$8.40
R-GC65270	EA	END SLEEVE, HDG, 7/8"	0.27	\$9.80
R-GC65271	EA	END SLEEVE, HDG, 1"	0.32	\$13.00
R-GC65303	EA	END SLEEVE, HDG, 3/16"	0.03	\$4.10
R-GEM4060	EA	GABLE MOUNT ADJ 40" TO 60"	9.00	\$87.00
R-GL10	EA	GROUND LUG, 7/16" ATTACH HOLE, 1 1/2" BOLT HOLE	1.43	\$10.40
R-GL11/4	EA	GUY LINK, REQUIRED FOR ROCKET SOCKET	0.73	\$108.00
R-GL4	EA	GROUND LUG, 7/16" ATTACH HOLE, 1/2" BOLT HOLE	0.42	\$4.15
R-GL5	EA	GROUND LUG, 7/16" ATTACH HOLE, 5/8" BOLT HOLE	0.43	\$5.20
R-GL6	EA	GROUND LUG, 7/16" ATTACH HOLE, 3/4" BOLT HOLE	0.59	\$6.25
R-GL7	EA	GROUND LUG, 7/16" ATTACH HOLE, 7/8" BOLT HOLE	0.64	\$7.30
R-GL8	EA	GROUND LUG, 7/16" ATTACH HOLE, 1" BOLT HOLE	0.64	\$8.30
R-GM17T	EA	BKG3G GROUNDING PACKAGE	2.00	\$16.00
R-GM35	EA	CW45T 45/340017T PACKAGE HARDWARE	5.00	\$69.00

**Commercial Price List**  
(Electronic Version)

Part#	UOM	Description	U/W	Price
R-GR1	EA	GUY RING, 1-1/4" ROLLED EDGE	0.17	\$0.60
R-GR10C	EA	GROUND ROD, COPPER CLAD, 3/4" X 10', THD END, WITH CLAMP	1.33	\$78.00
R-GR2	EA	GUY RING, 1-1/2" ROLLED EDGE	0.17	\$0.60
R-GR3	EA	GUY RING, 1 3/4" ROLLED EDGE	0.17	\$0.60
R-GR384	EA	GROUND ROD, COPPER CLAD, 3/8" X 4', WITH CLAMP	1.60	\$12.00
R-GR384Z	EA	GROUND ROD, GALV, 3/8" X 4', WITH CLAMP	1.72	\$9.50
R-GR386	EA	GROUND ROD, COPPER CLAD, 3/8" X 6', WITH CLAMP	2.35	\$15.00
R-GR386Z	EA	GROUND ROD, GALV, 3/8" X 6', WITH CLAMP	2.58	\$13.00
R-GR4	EA	GUY RING, 2" ROLLED EDGE	0.20	\$0.60
R-GR5	EA	GUY RING, 2-1/4 ROLLED EDGE	0.20	\$0.60
R-GR8C	EA	GROUND ROD, COPPER CLAD, 5/8" X 8', WITH CLAMP	0.82	\$25.00
R-GR8G	EA	GROUND ROD, GALV, 5/8" X 8', WITH CLAMP	0.90	\$21.00
R-GR8GROD	EA	ROD GROUND 8' GALVANIZED	0.00	\$17.00
R-GR8GROD-3	EA	GROUND ROD, GALV, 8' - SET OF 3	24.00	\$61.00
R-GS2410	EA	GRIP STRUT 24X3X1/4X10' FLAIN	79.00	\$158.00
R-GS2410G	EA	PANEL W/O BRIDGE 20X10' GRIP STRUT	83.70	\$200.00
R-GTMB	EA	GROUND MAST MOUNT 1-1/4" & UP	1.80	\$30.00
R-GTMBL	EA	GROUND MAST W/SPEC PLATE	1.80	\$20.00
R-H184WJ	EA	WAVEGUIDE LADDER MTO CLAMP ASSY, SSV TOWERS	1.90	\$17.00
R-H20	EA	MAST TELESCOPING	15.00	\$34.00
R-H2545	EA	HEAD ONLY FOR EF2545	8.00	\$147.00
R-H30	EA	MAST TELESCOPING	25.00	\$52.00
R-H40	EA	MAST TELESCOPING	39.00	\$73.00
R-H50	EA	MAST TELESCOPING	43.00	\$86.00
R-HB25AG	EA	25G HOUSE BRACKET ASSY, ADJ 0" TO 15"	8.00	\$71.00
R-HB25BG	EA	25G HOUSE BRACKET ASSY, ADJ 0" TO 24"	11.00	\$93.00
R-HB25CG	EA	25G HOUSE BRACKET ASSY, ADJ 0" TO 36"	17.00	\$95.00
R-HBUTVRO	EA	25G, 45G, 55G UNIVERSAL HD HOUSE BRACKET, 18 - 36" STANDOFF	38.10	\$123.00
R-HL10A	EA	LADDER, CLIMBING, HEAVY, LEG MOUNT, 10' LONG	70.00	\$245.00
R-HL10FA	EA	LADDER, CLIMBING, HEAVY, FACE MOUNT, ANGLE BRACING, 10' LONG	70.00	\$235.00
R-HL10FT	EA	LADDER, CLIMBING, HEAVY, FACE MOUNT, TUBULAR BRACING, 10' LONG	70.00	\$255.00
R-HL162A	EA	LADDER 20' HEAVY 1.44 12"OC	70.00	\$385.00
R-HL20A	EA	LADDER, CLIMBING, HEAVY, LEG MOUNT, 20' LONG	140.00	\$385.00
R-HL20FA	EA	LADDER, CLIMBING, HEAVY, FACE MOUNT, ANGLE BRACING, 20' LONG	140.00	\$375.00
R-HL20FT	EA	LADDER, CLIMBING, HEAVY, FACE MOUNT, TUBULAR BRACING, 20' LONG	140.00	\$416.00
R-ISBEACON	EA	ICE SHIELD ASSY LEG FOR BEACON	43.10	\$312.00
R-J107	EA	J BOLT, HDG, 3/8" X 6-1/2	0.30	\$1.62
R-J107A	EA	J BOLT ASSY, HDG, 3/8" X 6-1/2	0.35	\$2.88
R-J164	EA	J-BOLT, HDG, 3/8" X 8	0.30	\$2.54
R-J164A	EA	J-BOLT ASSY, HDG, 3/8" X 8	0.40	\$2.70
R-J167	EA	J BOLT, HDG, 3/8" X 1-5/8	0.10	\$2.30
R-J167A	EA	J BOLT ASSY, HDG, 3/8" X 1-5/8	0.15	\$5.27
R-J168	EA	J-BOLT, HDG, 3/8" X 7-9/16"	0.30	\$17.00
R-J168A	EA	J-BOLT ASSY, HDG, 3/8" X 7-9/16"	0.40	\$17.00
R-J168AW	EA	J-BOLT ASSY, HDG, 3/8" X 7-9/16" W/WASHER	0.40	\$5.41

**Commercial Price List**  
(Electronic Version)

Part#	UOM	Description	U/W	Price
R-J44A	EA	J-BOLT ASSY, HDG, 3/8" X 3-11/16	0.10	\$3.40
R-J44AA	EA	J-BOLT ASSY, HDG, 3/8" X 3-11/16	0.16	\$3.61
R-J44AAW	EA	J-BOLT ASSY, HDG, 3/8" X 3-11/16 W/WASHER	0.20	\$3.69
R-J51	EA	J-BOLT, HDG, 3/8" X 5-3/8	0.20	\$1.88
R-J51A	EA	J-BOLT ASSY, HDG, 3/8" X 5-3/8	0.23	\$2.09
R-JB4C	EA	JUNCTION BOX W/CABLE SUPPORT	0.23	\$110.00
R-JB4TC	EA	JUNCTION BOX W/TERM BLOCKS & CABLE SUPPORT	3.60	\$115.00
R-JB7TC	EA	JUNCTION BOX 5320 W/TERM BLOCKS & CABLE SUPPORT	0.25	\$230.00
R-JR110	EA	U-BOLT, HDG, 1/2" X 10-7/8	0.25	\$6.43
R-JR110A	EA	U-BOLT ASSY, HDG, 1/2" X 10-7/8	1.80	\$7.42
R-JR110AW	EA	U-BOLT ASSY, HDG, 1/2" X 10-7/8 W/WASHER	2.00	\$6.82
R-JR120	EA	U-BOLT, HDG, 1/2" X 12-7/8	3.00	\$5.82
R-JR120A	EA	U-BOLT ASSY, HDG, 1/2" X 12-7/8	2.30	\$8.22
R-JR120AW	EA	U-BOLT ASSY, HDG, 1/2" X 12-7/8 W/WASHER	2.40	\$8.80
R-JR121	EA	U-BOLT, HDG, 3/4" X 3	1.60	\$11.00
R-JR1210	EA	U-BOLT, HDG, 3/4" X 10-7/8	4.60	\$13.00
R-JR1210A	EA	U-BOLT ASSY, HDG, 3/4" X 10-7/8	4.90	\$15.00
R-JR1210AW	EA	U-BOLT ASSY, HDG, 3/4" X 10-7/8 W/WASHER	5.10	\$16.00
R-JR1212	EA	U-BOLT, HDG, 3/4" X 12-3/4	5.10	\$11.00
R-JR1212A	EA	U-BOLT ASSY, HDG, 3/4" X 12-3/4	5.90	\$14.00
R-JR121A	EA	U-BOLT ASSY, HDG, 3/4" X 3	2.00	\$13.00
R-JR122	EA	U-BOLT, HDG, 3/4" X 3-1/2	2.20	\$8.68
R-JR122A	EA	U-BOLT ASSY, HDG, 3/4" X 3-1/2	2.60	\$11.00
R-JR122AW	EA	U-BOLT ASSY, HDG, 3/4" X 3-1/2 W/WASHER	2.70	\$11.00
R-JR123	EA	U-BOLT, HDG, 3/4" X 4	2.44	\$6.88
R-JR123A	EA	U-BOLT ASSY, HDG, 3/4" X 4	2.90	\$8.07
R-JR124	EA	U-BOLT, HDG, 3/4" X 4-1/2	2.40	\$5.62
R-JR124A	EA	U-BOLT ASSY, HDG, 3/4" X 4-1/2	3.00	\$8.97
R-JR124AW	EA	U-BOLT ASSY, HDG, 3/4" X 4-1/2 W/WASHER	3.20	\$9.46
R-JR125	EA	U-BOLT, HDG, 3/4" X 5-5/8	2.80	\$19.00
R-JR125A	EA	U-BOLT, HDG, 3/4" X 5-5/8	2.80	\$37.00
R-JR1268SSQ	EA	U-BOLT ASSY, HDG, SQUARE, 3/4"	2.77	\$13.00
R-JR126ST	EA	U-BOLT, HDG, 3/4" X 6-3/4	3.90	\$25.00
R-JR126STA	EA	U-BOLT ASSY, HDG, 3/4" X 6-3/4	3.90	\$37.00
R-JR126STAW	EA	U-BOLT ASSY 3/4" X 6-3/4 W/WASHER	3.90	\$15.00
R-JR128A	EA	U-BOLT ASSY, HDG, 3/4"	4.24	\$14.00
R-JR45	EA	U-BOLT, ZINC PLATED, 1/4" X 1-1/4	0.10	\$0.78
R-JR45A	EA	U-BOLT ASSY, ZINC PLATED, 1/4" X 1-1/4	0.12	\$0.81
R-JR51	EA	U-BOLT, HDG, 5/16" X 1-1/2	0.11	\$2.30
R-JR51A	EA	U-BOLT ASSY, HDG, 5/16" X 1-1/2	0.15	\$3.36
R-JR52	EA	U-BOLT, HDG, 5/16" X 2	0.15	\$8.40
R-JR52A	EA	U-BOLT ASSY, HDG, 5/16" X 2	0.20	\$9.46
R-JR54	EA	U-BOLT, HDG, 5/16" X 1-11/16	0.15	\$1.42
R-JR54A	EA	U-BOLT ASSY, HDG, 5/16" X 1-11/16	0.14	\$2.47
R-JR55	EA	U-BOLT, HDG, 5/16" X 1-1/2	0.10	\$0.48
R-JR55A	EA	U-BOLT ASSY, HDG, 5/16" X 1-1/2	0.14	\$1.53
R-JR60	EA	U-BOLT, HDG, 3/8" X 2-1/2	0.25	\$2.20
R-JR60A	EA	U-BOLT ASSY, HDG, 3/8" X 2-1/2	0.50	\$3.66
R-JR60AW	EA	U-BOLT ASSY, HDG, 3/8" X 2-1/2 W/WASHER	0.40	\$3.81

**Commercial Price List**  
(Electronic Version)

Part#	UOM	Description	U/W	Price
R-JR61	EA	U-BOLT, HDG, 3/8" X 2-1/2	0.50	\$4.38
R-JR61A	EA	U-BOLT ASSY, HDG, 3/8" X 2-1/2	0.00	\$4.80
R-JR62	EA	U-BOLT, HDG, 3/8" X 4	0.30	\$2.22
R-JR63	EA	U-BOLT, HDG, 3/8" X 4-1/2	0.42	\$0.98
R-JR63A	EA	U-BOLT ASSY, HDG, 3/8" X 4-1/2	0.52	\$1.39
R-JR63AW	EA	U-BOLT ASSY, HDG, 3/8" X 4-1/2 WWASHER	0.55	\$1.67
R-JR64	EA	U-BOLT, HDG, 3/8" X 3-1/2	0.30	\$2.38
R-JR64A	EA	U-BOLT ASSY, HDG, 3/8" X 3-1/2	0.40	\$2.78
R-JR64AW	EA	U-BOLT ASSY, HDG, 3/8" X 3-1/2 WWASHER	0.45	\$2.92
R-JR65	EA	U-BOLT, HDG, 3/8" X 1-1/2	0.20	\$2.35
R-JR65A	EA	U-BOLT ASSY, HDG, 3/8" X 1-1/2	0.29	\$2.78
R-JR65AW	EA	U-BOLT ASSY, HDG, 3/8" X 1-1/2 WWASHER	0.30	\$2.92
R-JR65SA	EA	U-BOLT ASSY, HDG, 1/2" X 2 F/GA65GAGD	0.80	\$14.00
R-JR66	EA	U-BOLT, HDG, 3/8" X 1-1/4	0.21	\$1.31
R-JR66A	EA	U-BOLT ASSY, HDG, 3/8" X 1-1/4	0.31	\$6.78
R-JR66AW	EA	U-BOLT ASSY, HDG, 3/8" X 1-1/4 WWASHER	0.35	\$1.88
R-JR67	EA	U-BOLT, HDG, 3/8" X 1	0.13	\$0.92
R-JR67A	EA	U-BOLT ASSY, HDG, 3/8" X 1	0.23	\$1.35
R-JR68	EA	U-BOLT, HDG, 3/8" X 2-1/8	0.20	\$1.88
R-JR68A	EA	U-BOLT ASSY, HDG, 3/8" X 2-1/8	0.30	\$2.30
R-JR69	EA	U-BOLT, HDG, 3/8" X 1 5/16	0.10	\$1.21
R-JR69A	EA	U-BOLT ASSY, HDG, 3/8" X 1 5/16	0.21	\$1.64
R-JR81	EA	U-BOLT, HDG, 1/2" X 3/4	0.40	\$1.52
R-JR810	EA	U-BOLT, HDG, 1/2" X 2	0.45	\$2.35
R-JR810A	EA	U-BOLT ASSY, HDG, 1/2" X 2	0.63	\$3.47
R-JR810AW	EA	U-BOLT ASSY, HDG, 1/2" X 2 WWASHER	0.70	\$3.78
R-JR811	EA	U-BOLT, HDG, SQUARE, 1/2" X 3-1/4	0.55	\$2.25
R-JR811A	EA	U-BOLT ASSY, HDG, SQUARE, 1/2" X 3-1/4	0.73	\$4.27
R-JR812	EA	U-BOLT, HDG, SQUARE, 1/2" X 4-1/4	0.69	\$3.18
R-JR812A	EA	U-BOLT ASSY, HDG, SQUARE, 1/2" X 4-1/4	0.87	\$4.38
R-JR812L	EA	U-BOLT, HDG, SQUARE, 1/2" X 4-1/4	0.73	\$2.21
R-JR812LA	EA	U-BOLT ASSY, HDG, SQUARE, 1/2" X 4-1/4	0.91	\$4.49
R-JR815	EA	U-BOLT, HDG, SQUARE, 1/2" X 6-1/4	1.30	\$2.78
R-JR815A	EA	U-BOLT ASSY, HDG, SQUARE, 1/2" X 6-1/4	1.48	\$5.09
R-JR815AW	EA	U-BOLT ASSY, HDG, SQUARE, 1/2" X 6-1/4 WWASHER	1.50	\$6.13
R-JR81A	EA	U-BOLT ASSY, HDG, 1/2" X 3/4	0.60	\$2.65
R-JR82	EA	U-BOLT, HDG, 1/2" X 2-1/4	0.53	\$2.72
R-JR82A	EA	U-BOLT ASSY, HDG, 1/2" X 2-1/4	0.71	\$3.84
R-JR82AW	EA	U-BOLT ASSY, HDG, 1/2" X 2-1/4 WWASHER	0.80	\$4.15
R-JR83	EA	U-BOLT, HDG, 1/2" X 2-1/2	0.53	\$2.32
R-JR83A	EA	U-BOLT ASSY, HDG, 1/2" X 2-1/2	0.71	\$3.44
R-JR83AAN	EA	U-BOLT ASSY, HDG, 1/2" X 2-1/2 ANCO	0.75	\$4.32
R-JR83AW	EA	U-BOLT ASSY, HDG, 1/2" X 2-1/2 WWASHER	0.80	\$3.75
R-JR84	EA	U-BOLT, HDG, 1/2" X 3	0.70	\$3.62
R-JR84A	EA	U-BOLT ASSY, HDG, 1/2" X 3	0.80	\$4.74
R-JR84AAN	EA	U-BOLT ASSY, HDG, 1/2" X 3 ANCO	0.85	\$5.62
R-JR84AW	EA	U-BOLT ASSY, HDG, 1/2" X 3 WWASHER	0.90	\$5.05
R-JR84AW8	EA	U-BOLT KIT, HDG, 1/2" X 3	9.60	\$40.00
R-JR84AWAN	EA	U-BOLT ASSY, HDG, 1/2" X 3 WWASHER ANCO	0.85	\$5.93

### Commercial Price List

(Electronic Version)

Part#	UOM	Description	U/W	Price
R-JR84S	EA	U-BOLT, HDG, 1/2" X 3 SPECIAL	0.55	\$9.38
R-JR84SA	EA	U-BOLT ASSY, HDG, 1/2" X 3 SPECIAL	1.10	\$10.50
R-JR85	EA	U-BOLT, HDG, 1/2" X 4-1/2	0.73	\$3.38
R-JR85A	EA	U-BOLT ASSY, HDG, 1/2" X 4-1/2	0.91	\$4.50
R-JR85AW	EA	U-BOLT ASSY, HDG, 1/2" X 4-1/2 W/WASHER	1.00	\$4.80
R-JR86	EA	U-BOLT, HDG, 1/2" X 5-5/8	1.00	\$2.25
R-JR86A	EA	U-BOLT ASSY, HDG, 1/2" X 5-5/8	1.14	\$3.37
R-JR86AW	EA	U-BOLT ASSY, HDG, 1/2" X 5-5/8 W/WASHER	1.20	\$3.68
R-JR87	EA	U-BOLT, HDG, 1/2" X 6-3/4	1.10	\$2.60
R-JR87A	EA	U-BOLT ASSY, HDG, 1/2" X 6-3/4	1.22	\$4.37
R-JR87AW	EA	U-BOLT ASSY, HDG, 1/2" X 6-3/4 W/WASHER	1.30	\$11.00
R-JR88	EA	U-BOLT, HDG, 1/2" X 3-1/2	0.70	\$3.15
R-JR88A	EA	U-BOLT ASSY, HDG, 1/2" X 3-1/2	0.88	\$4.27
R-JR88AW	EA	U-BOLT ASSY, HDG, 1/2" X 3-1/2 W/WASHER	0.90	\$4.58
R-JR88AW8	EA	U-BOLT ASSY 1/2 X 3-1/2 HDG	7.36	\$57.00
R-JR89	EA	U-BOLT, HDG, 1/2" X 4	0.80	\$1.58
R-JR89A	EA	U-BOLT ASSY, HDG, 1/2" X 4	0.98	\$2.70
R-JR89AW	EA	U-BOLT ASSY, HDG, 1/2" X 4 W/WASHER	1.00	\$3.00
R-JR90S	EA	U-BOLT, HDG, 1/2" X 8-3/4	1.70	\$3.92
R-JR90SA	EA	U-BOLT ASSY, HDG, 1/2" X 8-3/4	1.88	\$5.04
R-JR90SAW	EA	U-BOLT ASSY, HDG, 1/2" X 8-3/4 W/WASHER	1.90	\$6.60
R-JRL60AW	EA	U-BOLT ASSY, HDG, 3/8" X 1-9/16 L-HOOK	0.20	\$2.74
R-JRM23805	EA	NON-PENETRATING ROOF MOUNT - MAST 2-3/8" OD, 5' HEIGHT	87.00	\$193.00
R-JRM23810	EA	NON-PENETRATING ROOF MOUNT - MAST X 2-3/8" OD, 10' HEIGHT	120.00	\$297.00
R-JRM23855	EA	NON-PENETRATING ROOF MOUNT - 2 PC MAST 2-3/8" OD, 10' HEIGHT	107.40	\$250.00
R-JRM27505	EA	NON-PENETRATING ROOF MOUNT - MAST X 2-7/8" OD, 5' HEIGHT	87.00	\$210.00
R-JRM27510	EA	NON-PENETRATING ROOF MOUNT - MAST X 2-7/8" OD, 10' HEIGHT	126.70	\$325.00
R-JRM27555	EA	NON-PENETRATING ROOF MOUNT - 2 PC MAST 2-7/8" OD, 10' HEIGHT	110.00	\$348.00
R-JRM35010	EA	NON-PENETRATING ROOF MOUNT - MAST 3-1/2" OD, 10' HEIGHT	144.50	\$253.00
R-JRMMAT	EA	ROOF MATS, 1/8" THICK, FOR JRM MOUNTS	20.00	\$57.00
R-JRMPAD	EA	ROOF PADS, 3/8" THICK, FOR JRM MOUNTS	95.00	\$120.00
R-KA66	EA	PLATE (5"X5"X1/4") FOR INSTALLING PWM ON INSIDE OF WALL	2.00	\$5.00
R-KH279	EA	PIPE, STANDARD (SCHEDULE 40), 4" ID, 4.375" OD X 5'	57.20	\$83.00
R-KH3423	EA	RINGFILL, HDG, 5/16"	0.26	\$1.10
R-KH3424	EA	RINGFILL, HDG, 7/16"	0.34	\$8.68
R-KH386	EA	RINGFILL, HDG, 3/8"	0.16	\$1.00
R-KH390	EA	RINGFILL, HDG, 1/4"	0.20	\$1.00
R-KH391	EA	RINGFILL, HDG, 3/8"	0.14	\$1.05
R-KH4516	EA	AIRCRAFT CABLE .063" X 2.75"	0.00	\$0.79
R-KH5121	EA	SWITCH BRACKET .04" X 1.25" X 3.125" MOUNTING BRACKET ASSY, ANGLE 3.5" - 4.0" BRACING, FOR NL20FA & NL16FA	0.01	\$8.55
R-KY1287A	EA	CLAMP, ANGLE 3.5" - 4.0" MEMBER, FOR WL20F154KD & WL10F154KD	2.90	\$8.35
R-KY1297A	EA	MOUNT, SIDE ARM ASSY, 6' STRAIGHT OR TAPERED 2.875" LEGS, WITH 2.875" PIPE, WITH 2 TIE-BACKS	513.00	\$1,362.00
R-KY1298A	EA	MOUNT, SIDE ARM ASSY, 6' STRAIGHT OR TAPERED 3.5" LEGS, WITH 2.875" PIPE, WITH 2 TIE-BACKS	520.00	\$1,383.00
R-KY1299A	EA	MOUNT, SIDE ARM ASSY, 6' STRAIGHT OR TAPERED 3.5" LEGS, WITH 2.875" PIPE, WITH 2 TIE-BACKS	522.00	\$1,375.00

**Commercial Price List**  
(Electronic Version)

Part#	UOM	Description	U/W	Price
R-KY1300A	EA	MOUNT, SIDE ARM ASSY, 6, STRAIGHT OR TAPERED 4.0' LEGS, WITH 2.875" PIPE, WITH 2 TIE-BACKS	524.00	\$1,350.00
R-KY1301A	EA	MOUNT, SIDE ARM ASSY, 6, STRAIGHT OR TAPERED 4.5' LEGS, WITH 2.875" PIPE, WITH 2 TIE-BACKS	522.00	\$1,344.00
R-KY1682	EA	MOUNTING BRACKET ASSY, ROUND 11.0" LEG, FOR HL20A & HL10A	12.60	\$452.00
R-KY2038A	EA	MOUNTING BRACKET ASSY, ROUND 13.0" LEG, FOR HL20A & HL10A	17.60	\$64.00
R-KY2068A15	EA	MOUNT, SIDE ARM ASSY, FOR 25G, WITH 1.5" PIPE	23.00	\$105.00
R-KY2068A16	EA	MOUNT, SIDE ARM ASSY, FOR 25G, WITH 1.66" PIPE	24.00	\$105.00
R-KY2068A2	EA	MOUNT, SIDE ARM ASSY, FOR 25G, WITH 2.375" PIPE	32.00	\$136.00
R-KY2157A	EA	MOUNT, SIDE ARM ASSY, 3', WITH 2.375" PIPE	94.00	\$275.00
R-KY2158A	EA	MOUNT, SIDE ARM ASSY, 3', WITH 2.875" PIPE	82.40	\$255.00
R-KY2677A	EA	MOUNT, SIDE ARM ASSY, 3', WITH 2.375" PIPE	0.00	\$172.00
R-KY2678A	EA	MOUNT, SIDE ARM ASSY, 3', WITH 2.875" PIPE	51.00	\$178.00
R-KY2679A	EA	MOUNT, SIDE ARM ASSY, 3', WITH 2.375" PIPE	61.70	\$157.00
R-KY2680A	EA	MOUNT, SIDE ARM ASSY, 3', WITH 2.875" PIPE	50.10	\$99.00
R-KY2681A	EA	MOUNT, SIDE ARM ASSY, 3', WITH 2.375" PIPE	62.60	\$172.00
R-KY2682A	EA	MOUNT, SIDE ARM ASSY, 3', WITH 2.875" PIPE	51.00	\$122.00
R-KY2688A	EA	MOUNT, SIDE ARM ASSY, 3', WITH 2.375" PIPE	94.00	\$276.00
R-KY2689A	EA	MOUNT, SIDE ARM ASSY, 3', WITH 2.875" PIPE	82.40	\$256.00
R-KY615	EA	MOUNTING BRACKET ASSY, ROUND 1" - 3" LEG, FOR NL20A & NL10A	9.50	\$51.00
R-KY616	EA	MOUNTING BRACKET ASSY, ROUND 3.5" LEG, FOR NL20A & NL10A	8.60	\$49.00
R-KY617	EA	MOUNTING BRACKET ASSY, ROUND 4.0" LEG, FOR NL20A & NL10A	8.60	\$40.00
R-KY618	EA	MOUNTING BRACKET ASSY, ROUND 4.5" LEG, FOR NL20A & NL10A	8.70	\$39.00
R-KY619	EA	MOUNTING BRACKET ASSY, ROUND 5.5" LEG, FOR NL20A & NL10A	9.10	\$47.00
R-KY620	EA	MOUNTING BRACKET ASSY, ROUND 6.6" LEG, FOR NL20A & NL10A	9.20	\$38.00
R-KY621	EA	MOUNTING BRACKET ASSY, ROUND 8.75" LEG, FOR NL20A & NL10A	10.00	\$39.00
R-KY622	EA	MOUNTING BRACKET ASSY, ROUND 11.0" LEG, FOR NL20A & NL10A	16.50	\$588.00
R-KY623	EA	MOUNTING BRACKET ASSY, ROUND 13.0" LEG, FOR NL20A & NL10A	11.80	\$138.00
R-KY693	EA	CLAMP, ANGLE 1.5" MEMBER, FOR WL20F154KD & WL10F154KD	2.10	\$10.47
R-KY695	EA	CLAMP, ANGLE 1.75" - 2.5" MEMBER, FOR WL20F154KD & WL10F154KD	2.10	\$7.42
R-KY697	EA	CLAMP, ANGLE 3.0" MEMBER, FOR WL20F154KD & WL10F154KD	1.70	\$7.42
R-KY832	EA	CLAMP, ANGLE 2.5" BRACING, FOR NL20/10FA & HL20/10FA	3.70	\$10.48
R-KY833	EA	CLAMP, ANGLE 3.0" BRACING, FOR HL20FA & HL10FA	4.30	\$9.14
R-KY902	EA	MOUNTING BRACKET ASSY, ROUND 15/16" LEG, FOR HL20A & HL10A	12.20	\$38.00
R-KY903	EA	MOUNTING BRACKET ASSY, ROUND 1.25" LEG, FOR HL20A & HL10A	12.20	\$38.00
R-KY904	EA	MOUNTING BRACKET ASSY, ROUND 1.5" LEG, FOR HL20A & HL10A	12.00	\$39.00
R-KY905	EA	MOUNTING BRACKET ASSY, ROUND 2.25" LEG, FOR HL20A & HL10A	11.60	\$32.00
R-KY906	EA	MOUNTING BRACKET ASSY, ROUND 3.0" LEG, FOR HL20A & HL10A	11.60	\$32.00



Part#	UOM	Description	U/W	Price
R-KY907	EA	MOUNTING BRACKET ASSY, ROUND 1.5" LEG, FOR HL20A & HL10A	11.70	\$32.00
R-KY908	EA	MOUNTING BRACKET ASSY, ROUND 4.0" LEG, FOR HL20A & HL10A	11.80	\$34.00
R-KY909	EA	MOUNTING BRACKET ASSY, ROUND 4.5" LEG, FOR HL20A & HL10A	11.70	\$32.00
R-KY910	EA	MOUNTING BRACKET ASSY, ROUND 5.5" LEG, FOR HL20A & HL10A	11.90	\$31.00
R-KY911	EA	MOUNTING BRACKET ASSY, ROUND 6.6" LEG, FOR HL20A & HL10A	11.70	\$32.00
R-KY912	EA	MOUNTING BRACKET ASSY, ROUND 8.75" LEG, FOR HL20A & HL10A	12.50	\$31.00
R-ICAPC	EA	PHOTOCELL WHOUSING FOR ALARM CONTROL	3.00	\$120.00
R-LMF12254A12	EA	LMF SERIES 3 SECTOR PIPE FRAME MOUNT	2,362.60	\$6,489.00
R-LMF12254A6	EA	LMF SERIES 3 SECTOR PIPE FRAME MOUNT	2,011.20	\$5,490.00
R-LMF12254A9	EA	LMF SERIES 3 SECTOR PIPE FRAME MOUNT	2,186.90	\$5,940.00
R-LMF15254A12	EA	LMF SERIES 3 SECTOR PIPE FRAME MOUNT	2,473.10	\$6,480.00
R-LMF15254A6	EA	LMF SERIES 3 SECTOR PIPE FRAME MOUNT	2,121.70	\$5,490.00
R-LMF15254A9	EA	LMF SERIES 3 SECTOR PIPE FRAME MOUNT	2,297.40	\$5,940.00
R-LR	EA	LIGHTNING ROD, ALUMINUM, 7/8" X 6'	6.00	\$324.00
R-LRCL	EA	LIGHTNING ROD, COPPER CLAD, 5/8" X 5'	6.00	\$83.00
R-M200H	EA	MAST, 2" OD X 110A X 10' HDG	30.00	\$149.00
R-MAINT/INSP	EA	MAINTENANCE/INSPECTION MANUAL	0.00	\$25.00
R-NL10	EA	LADDER, CLIMBING, LEG MOUNT, 10' LONG	37.30	\$187.00
R-NL10A	EA	LADDER, CLIMBING, LEG MOUNT, 10' LONG	45.30	\$187.00
R-NL10FA	EA	LADDER, CLIMBING, FACE MOUNT, ANGLE BRACING, 10' LONG	39.00	\$177.00
R-NL10FT	EA	LADDER, CLIMBING, FACE MOUNT, TUBULAR BRACING, 10' LONG	44.90	\$197.00
R-NL20	EA	LADDER, CLIMBING, LEG MOUNT, 20' LONG	74.70	\$292.00
R-NL20A	EA	LADDER, CLIMBING, LEG MOUNT, 20' LONG	85.40	\$292.00
R-NL20FA	EA	LADDER, CLIMBING, FACE MOUNT, ANGLE BRACING, 20' LONG	76.40	\$270.00
R-NL20FT	EA	LADDER, CLIMBING, FACE MOUNT, TUBULAR BRACING, 20' LONG	87.40	\$312.00
R-NSL446	EA	PHOTOCELL, EYE ONLY	0.03	\$11.00
R-OB1	EA	SINGLE OBSTRUCTION LIGHT, RED - NO BULB	4.00	\$172.00
R-OB116W	EA	BULB, OBSTRUCTION LIGHT, 120V 116A21/TS I	0.10	\$5.20
R-OB116W230V	EA	BULB, OBSTRUCTION LIGHT, 230V 116W	0.10	\$12.00
R-OB2	EA	DOUBLE OBSTRUCTION LIGHT, RED - NO BULB	8.00	\$317.00
R-OBG1	EA	NEOPRENE GASKET, OB1 & OB2	1.00	\$1.62
R-OBK15	EA	LIGHTING CONVERSION KIT 8.1-15	27.50	\$123.00
R-OBK	EA	LATCH ASSY STAINLESS STEEL OB HOUSING	0.10	\$3.65
R-OBR	EA	RETAINING RING, OBSTRUCTION LIGHT	0.30	\$9.35
R-OBRC	EA	LENS RETAINER CLIP, ALUMINUM	0.01	\$9.63
R-P2545	EA	POLE ONLY FOR EF2545	12.00	\$271.00

**Commercial Price List**  
(Electronic Version)

Part#	UOM	Description	U/W	Price
R-PNINPO5	EA	PAINT, TOWER, ORANGE, ACRYLIC LATEX	11.00	\$66.00
R-PNINPW9	EA	PAINT, TOWER, WHITE, ACRYLIC LATEX	11.00	\$66.00
R-PR25G	EA	25G BASE FOR PEAK ROOF MOUNT	14.60	\$170.00
R-PRM635	EA	NON-PENETRATING ROOF MOUNT - MAST 3-1/2" O.D., 50-5/16" HEIGHT	207.00	\$781.00
R-PRM640	EA	NON-PENETRATING ROOF MOUNT - MAST 4" O.D., 50-5/16" HEIGHT	213.00	\$721.00
R-PRM645	EA	NON-PENETRATING ROOF MOUNT - MAST 4-1/2" O.D., 50-5/16" HEIGHT	219.00	\$768.00
R-PRM655	EA	NON-PENETRATING ROOF MOUNT - MAST 5-9/16" O.D., 50-5/16" HEIGHT	233.00	\$895.00
R-PRM6MAT	EA	ROOF MATS, 1/8" THICK FOR PRM6 MOUNTS	36.00	\$44.00
R-PRM6PAD	EA	ROOF PADS, 3/8" THICK FOR PRM6 MOUNTS	118.00	\$325.00
R-PSM	EA	MOUNT, POLE ASSY 5" OD MAX. TVRO	20.00	\$100.00
R-PWM	EA	POLE WALL MOUNT	67.00	\$163.00
R-RA1C	EA	LIGHTING KIT LESS WIRE & CONDUIT	27.00	\$1,248.00
R-RA1C100	EA	LIGHTING KIT 100' CONDUIT	109.90	\$1,268.00
R-RA1CE	EA	LIGHTING KIT LESS WIRE & CONDUIT 230V	27.00	\$1,398.00
R-RA1CM	EA	LIGHTING KIT W/ALARM LESS WIRE & CONDUIT	48.00	\$2,704.00
R-RA1CMW&C	LF	WIRE & CONDUIT FOR RA1CM	0.00	\$3.50
R-RA1CW&C	LF	WIRE & CONDUIT FOR RA1C	0.00	\$3.50
R-RA1E	EA	LIGHTING KIT LESS WIRE	17.50	\$650.00
R-RA1EE	EA	LIGHTING KIT LESS WIRE, 230V	17.50	\$995.00
R-RA1EW&C	LF	WIRE & CONDUIT FOR RA1E	0.00	\$3.50
R-RAM350	EA	CONTROL REMOTE ALARM MONITOR ULC350	12.00	\$432.00
R-RK0516	EA	ROCKET SOCKET, 1", WITH EAR CLAMP	46.00	\$865.00
R-RLBBA	EA	ROHN-LOC BOTTOM BRACKET ASSEMBLY	13.00	\$237.00
R-RLC (3/8EHS)	LF	3/8" EHS SAFETY CABLE (SPECIFY STRUCTURE HEIGHT)	0.27	\$0.48
R-RLCRA1	EA	ROHN-LOC CABLE RESTRAINER	2.10	\$39.00
R-RLCRA2	EA	ROHN-LOC CABLE RESTRAINER	1.17	\$21.00
R-RLCRA3	EA	ROHN-LOC CABLE RESTRAINER	0.90	\$15.00
R-RLCSS	FT	ROHN-LOC 3/8" STAINLESS STEEL SAFETY CABLE	1.60	\$5.00
R-RLFBHL	EA	ROHN-LOC FULL BODY HARNESS, L	12.00	\$825.00
R-RLFBHM	EA	ROHN-LOC FULL BODY HARNESS, M	12.00	\$825.00
R-RLFBHS	EA	ROHN-LOC FULL BODY HARNESS, S	12.00	\$825.00
R-RLFBHXL	EA	ROHN-LOC FULL BODY HARNESS, XL	12.00	\$825.00
R-RLFPA	EA	FILLER PLATES - FOR USE W/TAPERED TOP OR TOP PLATE (SPECIFY SECTION/PIPE SIZE)		\$40.00
R-RLPOLE	KIT	ROHN-LOC SAFETY SYSTEM - MONOPOLE	0.00	\$650.00
R-RLTTP100	KIT	ROHN-LOC SAFETY SYSTEM - TAPERED TOP/TOP PLATE/BRACKETS 100'	0.00	\$638.00
R-RLTTP200	KIT	ROHN-LOC SAFETY SYSTEM - TAPERED TOP/TOP PLATE/BRACKETS 200'	0.00	\$838.00
R-RLTTP300	KIT	ROHN-LOC SAFETY SYSTEM - TAPERED TOP/TOP PLATE/BRACKETS 300'	0.00	\$1,025.00
R-RLTTP400	KIT	ROHN-LOC SAFETY SYSTEM - TAPERED TOP/TOP PLATE/BRACKETS 400'	0.00	\$1,238.00
R-RLTTP500	KIT	ROHN-LOC SAFETY SYSTEM - TAPERED TOP/TOP PLATE/BRACKETS 500'	0.00	\$1,450.00
R-RP25G	EA	25G ROTOR POST	3.00	\$28.00
R-RP25GCM	EA	25G SPECIAL ROTOR POST	2.00	\$33.00

### Commercial Price List

(Electronic Version)

Part#	UOM	Description	U/W	Price
R-RPC12	EA	PHOTOCELL W/HOUSING	2.00	\$225.00
R-RPCP1	EA	PHOTO CONTROL, LOCK TYPE 120V	0.20	\$101.00
R-RPCP2	EA	PHOTO CONTROL, LOCK TYPE 230V	0.20	\$104.00
R-RPCPS	EA	PHOTOCONTROL SOCKET, LOCK TYPE	0.60	\$27.00
R-RPH1P	EA	PHOTO-ELECTRIC CONTROL 120V	1.10	\$137.00
R-RPH2P	EA	PHOTO-ELECTRIC CONTROL 230V	1.10	\$154.00
R-S20HUM	EA	MOUNT, DISH, STRAIGHT 2' LEG WITH 6.6" PIPE	120.00	\$401.00
R-S20LUM	EA	MOUNT, DISH, STRAIGHT 2' LEG, WITH 4.5" PIPE	180.00	\$500.00
R-S20UM	EA	MOUNT, DISH, STRAIGHT 2' LEG, WITH 5" PIPE	90.00	\$220.00
R-S24HUM	EA	MOUNT, DISH, STRAIGHT 2.4' LEG WITH 6.6" PIPE	130.10	\$443.00
R-S24HUMTB	EA	MOUNT, DISH, STRAIGHT 2.4' LEG WITH 6.6" PIPE	156.40	\$516.00
R-S25HUM	EA	MOUNT, DISH, STRAIGHT 2.5' LEG, WITH 6.6" PIPE	120.00	\$406.00
R-S25LUM	EA	MOUNT, DISH, STRAIGHT 2.5' LEG, WITH 4.5" PIPE	180.00	\$500.00
R-S25UM	EA	MOUNT, DISH, STRAIGHT 2.5' LEG, WITH 5" PIPE	90.00	\$220.00
R-S25UMH	EA	MOUNT, DISH, STRAIGHT 2.5' LEG, WITH 5" PIPE	100.00	\$500.00
R-S30HUM	EA	MOUNT DISH STRAIGHT 3' LEG, WITH 6.6" PIPE	120.00	\$404.00
R-S30LUM	EA	MOUNT, DISH, STRAIGHT 3' LEG, WITH 4.5" PIPE	180.00	\$500.00
R-S30UM	EA	MOUNT, DISH, STRAIGHT 3' LEG, WITH 5" PIPE	90.00	\$220.00
R-S35HUM	EA	MOUNT, DISH, STRAIGHT 3.5' LEG, WITH 6.6" PIPE	120.00	\$398.00
R-S35LUM	EA	MOUNT, DISH, STRAIGHT 3.5' LEG, WITH 4.5" PIPE	180.00	\$500.00
R-S35UM	EA	MOUNT, DISH, STRAIGHT 3.5' LEG, WITH 5" PIPE	90.00	\$220.00
R-S40HUM	EA	MOUNT, DISH, STRAIGHT 4' LEG, WITH 4.5" PIPE	120.00	\$396.00
R-S40LUM	EA	MOUNT, DISH, STRAIGHT 4' LEG, WITH 4.5" PIPE	180.00	\$500.00
R-S40UM	EA	MOUNT, DISH, STRAIGHT 4' LEG, WITH 5" PIPE	90.00	\$220.00
R-S50HUM	EA	MOUNT, DISH, STRAIGHT 5' LEG, WITH 6.6" PIPE	130.00	\$420.00
R-S50LUM	EA	MOUNT, DISH, STRAIGHT 5' LEG, WITH 4.5" PIPE	190.00	\$660.00
R-S50UM	EA	MOUNT, DISH, STRAIGHT 5' LEG, WITH 5" PIPE	100.00	\$330.00
R-S56HUM	EA	MOUNT, DISH, STRAIGHT 5.6' LEG, WITH 6.6" PIPE	135.00	\$442.00
R-S56HUMTB	EA	MOUNT, DISH, STRAIGHT 5.6' LEG, WITH 6.6" PIPE	155.60	\$488.00
R-S58	EA	CLAMP GROUND ROD	0.16	\$2.40
R-S60HUM	EA	MOUNT, DISH, STRAIGHT 6' LEG, WITH 6.6" PIPE	130.00	\$532.00
R-S60LUM	EA	MOUNT, DISH, STRAIGHT 6' LEG, WITH 4.5" PIPE	190.00	\$660.00
R-S60UM	EA	MOUNT, DISH, STRAIGHT 6' LEG, WITH 5" PIPE	100.00	\$354.00
R-SA253UA	EA	MOUNT, SIDE ARM ASSY, FOR 25G/45G/55G/65G, WITH 2.25" PIPE	28.00	\$154.00
R-SA310A	EA	MOUNT, SIDE ARM ASSY, 3, STRAIGHT OR TAPERED 10.75" LEGS, WITH 2.375" PIPE	116.60	\$408.00
R-SA312A	EA	MOUNT, SIDE ARM ASSY, 3, STRAIGHT OR TAPERED 12.75" LEGS, WITH 2.375" PIPE	122.60	\$382.00
R-SA324A	EA	MOUNT, SIDE ARM ASSY, 3, STRAIGHT OR TAPERED 2.375" - 4.5" LEGS, WITH 2.375" PIPE	107.70	\$286.00
R-SA325PL1TB	EA	MOUNT, SIDE ARM ASSY, 3, STRAIGHT OR TAPERED 2.875" LEGS, WITH 2.375" PIPE, WITH 1 TIE-BACK	164.70	\$481.00
R-SA325PL2TB	EA	MOUNT, SIDE ARM ASSY, 3, STRAIGHT OR TAPERED 2.875" LEGS, WITH 2.375" PIPE, WITH 2 TIE-BACKS	236.90	\$701.00
R-SA32PL1TB	EA	MOUNT, SIDE ARM ASSY, 3, STRAIGHT OR TAPERED 2.375" LEGS, WITH 2.375" PIPE, WITH 1 TIE-BACK	170.00	\$474.00
R-SA32PL2TB	EA	MOUNT, SIDE ARM ASSY, 3, STRAIGHT OR TAPERED 2.375" LEGS, WITH 2.375" PIPE, WITH 2 TIE-BACKS	240.00	\$691.00
R-SA335PL1TB	EA	MOUNT, SIDE ARM ASSY, 3, STRAIGHT OR TAPERED 4.0" LEGS, WITH 2.375" PIPE, WITH 1 TIE-BACK	170.00	\$469.00
R-SA335PL2TB	EA	MOUNT, SIDE ARM ASSY, 3, STRAIGHT OR TAPERED 4.0" LEGS, WITH 2.375" PIPE, WITH 2 TIE-BACKS	240.00	\$685.00

**Commercial Price List**  
(Electronic Version)

Part#	UOM	Description	U/W	Price
R-SA33PL1TB	EA	MOUNT, SIDE ARM ASSY, 3, STRAIGHT OR TAPERED 3.5" LEGS, WITH 2.375" PIPE, WITH 1 TIE-BACK	170.00	\$479.00
R-SA33PL2TB	EA	MOUNT, SIDE ARM ASSY, 3, STRAIGHT OR TAPERED 3.5" LEGS, WITH 2.375" PIPE, WITH 2 TIE-BACKS	240.00	\$698.00
R-SA34PL1TB	EA	MOUNT, SIDE ARM ASSY, 3, STRAIGHT OR TAPERED 4.5" LEGS, WITH 2.375" PIPE, WITH 1 TIE-BACK	170.00	\$467.00
R-SA34PL2TB	EA	MOUNT, SIDE ARM ASSY, 3, STRAIGHT OR TAPERED 4.5" LEGS, WITH 2.375" PIPE, WITH 2 TIE-BACKS	240.00	\$682.00
R-SA356A	EA	MOUNT, SIDE ARM ASSY, 3, STRAIGHT OR TAPERED 5.5" LEGS, WITH 2.375" PIPE	110.00	\$250.00
R-SA36PL	EA	MOUNT, SIDE ARM ASSY, 3, STRAIGHT OR TAPERED 6.63" LEGS, WITH 2.375" PIPE	110.00	\$315.00
R-SA38A	EA	MOUNT, SIDE ARM ASSY, 3, STRAIGHT OR TAPERED 8.75" LEGS, WITH 2.375" PIPE	112.00	\$343.00
R-SA624A	EA	MOUNT, SIDE ARM ASSY, 3, STRAIGHT OR TAPERED 2.376" LEGS, WITH 2.375" PIPE	140.00	\$425.00
R-SA625PL1TB	EA	MOUNT, SIDE ARM ASSY, 6, STRAIGHT OR TAPERED 2.875" LEGS, WITH 2.375" PIPE, WITH 1 TIE-BACK	200.00	\$531.00
R-SA625PL2TB	EA	MOUNT, SIDE ARM ASSY, 6, STRAIGHT OR TAPERED 2.875" LEGS, WITH 2.375" PIPE, WITH 2 TIE-BACKS	270.00	\$751.00
R-SA62PL1TB	EA	MOUNT, SIDE ARM ASSY, 6, STRAIGHT OR TAPERED 2.375" LEGS, WITH 2.375" PIPE, WITH 1 TIE-BACK	200.00	\$524.00
R-SA62PL2TB	EA	MOUNT, SIDE ARM ASSY, 6, STRAIGHT OR TAPERED 2.375" LEGS, WITH 2.375" PIPE, WITH 2 TIE-BACKS	270.00	\$741.00
R-SA635PL1TB	EA	MOUNT, SIDE ARM ASSY, 6, STRAIGHT OR TAPERED 4.0" LEGS, WITH 2.375" PIPE, WITH 1 TIE-BACK	200.00	\$519.00
R-SA635PL2TB	EA	MOUNT, SIDE ARM ASSY, 6, STRAIGHT OR TAPERED 4.0" LEGS, WITH 2.375" PIPE, WITH 2 TIE-BACKS	270.00	\$735.00
R-SA63PL1TB	EA	MOUNT, SIDE ARM ASSY, 6, STRAIGHT OR TAPERED 3.5" LEGS, WITH 2.375" PIPE, WITH 1 TIE-BACK	200.00	\$528.00
R-SA63PL2TB	EA	MOUNT, SIDE ARM ASSY, 6, STRAIGHT OR TAPERED 3.5" LEGS, WITH 2.375" PIPE, WITH 2 TIE-BACKS	270.00	\$747.00
R-SA64PL1TB	EA	MOUNT, SIDE ARM ASSY, 6, STRAIGHT OR TAPERED 4.5" LEGS, WITH 2.375" PIPE, WITH 1 TIE-BACK	200.00	\$517.00
R-SA64PL2TB	EA	MOUNT, SIDE ARM ASSY, 6, STRAIGHT OR TAPERED 4.5" LEGS, WITH 2.375" PIPE, WITH 2 TIE-BACKS	270.00	\$732.00
R-SA656A	EA	MOUNT, SIDE ARM ASSY, 6	140.00	\$355.00
R-SA65PL	EA	MOUNT, SIDE ARM ASSY, 6, STRAIGHT OR TAPERED 5.5" LEGS, WITH 2.375" PIPE	150.00	\$330.00
R-SA65PL1TB	EA	MOUNT, SIDE ARM ASSY, 6, STRAIGHT OR TAPERED 5.5" LEGS, WITH 2.375" PIPE, WITH 1 TIE-BACK	200.00	\$470.00
R-SA66PL1TB	EA	MOUNT, SIDE ARM ASSY, 6, STRAIGHT OR TAPERED 6.6" LEGS, WITH 2.375" PIPE, WITH 1 TIE-BACK	200.00	\$485.00
R-SA68PL1TB	EA	MOUNT, SIDE ARM ASSY, 8, STRAIGHT OR TAPERED 8.75" LEGS, WITH 2.375" PIPE, WITH 1 TIE-BACK	215.00	\$558.00
R-SAB1W	EA	MOUNT, SIDE ARM, 1W	15.00	\$210.00
R-SAB2W	EA	MOUNT, SIDE ARM, 2W	15.00	\$210.00
R-SAB3WN	EA	MOUNT, SIDE ARM, 3WN	15.00	\$210.00
R-SAB45N	EA	PIPE SUPPORT 2W-5N	15.00	\$210.00
R-SB125	EA	MOUNT, ECONOMY ANGLE BASE 1-1/4"	0.42	\$13.00
R-SB2	EA	SSV SHORT BASE SECTION	45.00	\$325.00
R-SB25G	EA	25G SHORT BASE, 3'-4"	10.00	\$56.00
R-SB25G5	EA	25G SHORT BASE, 5'-0"	19.00	\$68.00
R-SB3	EA	SSV SHORT BASE SECTION	58.00	\$325.00
R-SB4	EA	SSV SHORT BASE SECTION	100.00	\$450.00
R-SB45G	EA	45G SHORT BASE, 5'-0"	35.00	\$104.00
R-SB5	EA	SSV SHORT BASE SECTION	115.00	\$500.00

**Commercial Price List**  
(Electronic Version)

Part#	UOM	Description	U/W	Price
R-SB55G	EA	55G SHORT BASE, 5'-0"	45.00	\$155.00
R-SBH25G	EA	25G HINGED SHORT BASE, 3'-4"	14.00	\$162.00
R-SDB25G	EA	25G SINGLE DRIVE-IN BASE	20.00	\$124.00
R-SHRM	EA	SAW HORSE ROOF MOUNT TVRO	64.00	\$230.00
RSL01	EA	RSL SERIES SECTION 1 - LEG V64X64X5 DIAG. PIPE 25" OD	145.00	\$418.03
RSL02	EA	RSL SERIES SECTION 2 - LEG V64X64X5 DIAG. PIPE 25" OD	145.00	\$418.03
RSL03	EA	RSL SERIES SECTION 3 - LEG V64X64X5 DIAG. PIPE 25" OD	147.00	\$420.12
RSL04	EA	RSL SERIES SECTION 4 - LEG V64X64X5 DIAG. PIPE 25" OD	148.00	\$422.21
RSL05	EA	RSL SERIES SECTION 5 - LEG V64X64X5 DIAG. PIPE 25" OD	150.00	\$424.30
RSL06	EA	RSL SERIES SECTION 6 - LEG V64X64X5 DIAG. PIPE 25" OD	152.00	\$426.39
RSL07	EA	RSL SERIES SECTION 7 - LEG V64X64X6 DIAG. PIPE 25" OD	189.00	\$478.65
RSL08	EA	RSL SERIES SECTION 8 - LEG V64X64X6 DIAG. PIPE 32" OD	210.00	\$491.19
RSL09	EA	RSL SERIES SECTION 9 - LEG V76X76X6 DIAG. PIPE 32" OD	237.00	\$520.45
RSL10	EA	RSL SERIES SECTION 10 - LEG V76X76X6 DIAG. PIPE 32" OD	240.00	\$522.54
RSL020L102	EA	RSL SERIES TOWER 20 FT-SECTION 1 TO SECTION 2 - LIGHT	912.00	\$905.00
RSL020M304	EA	RSL SERIES TOWER 20 FT-SECTION 3 TO SECTION 4 - MEDIUM	327.00	\$920.00
RSL030L103	EA	RSL SERIES TOWER 30 FT-SECTION 1 TO SECTION 3 - LIGHT	459.00	\$1,325.00
RSL030M305	EA	RSL SERIES TOWER 30 FT-SECTION 3 TO SECTION 5 - MEDIUM	476.00	\$1,346.00
RSL040L104	EA	RSL SERIES TOWER 40 FT-SECTION 1 TO SECTION 4 - LIGHT	607.00	\$1,747.00
RSL040M306	EA	RSL SERIES TOWER 40 FT-SECTION 3 TO SECTION 6 - MEDIUM	628.00	\$1,710.00
RSL050H509	EA	RSL SERIES TOWER 50 FT-SECTION 5 TO SECTION 9 - HEAVY	977.00	\$2,435.00
RSL050L105	EA	RSL SERIES TOWER 50 FT-SECTION 1 TO SECTION 5 - LIGHT	756.00	\$2,172.00
RSL050M307	EA	RSL SERIES TOWER 50 FT-SECTION 3 TO SECTION 7 - MEDIUM	816.00	\$2,251.00
RSL060H510	EA	RSL SERIES TOWER 60 FT-SECTION 5 TO SECTION 10 - HEAVY	1,217.00	\$2,958.00
RSL060L106	EA	RSL SERIES TOWER 60 FT-SECTION 1 TO SECTION 6 - LIGHT	1,217.00	\$2,600.00
RSL060M308	EA	RSL SERIES TOWER 60 FT-SECTION 3 TO SECTION 8 - MEDIUM	1,026.00	\$2,740.00
RSL070H410	EA	RSL SERIES TOWER 70 FT-SECTION 4 TO SECTION 10 - HEAVY	1,361.00	\$3,380.00
RSL070L107	EA	RSL SERIES TOWER 70 FT-SECTION 1 TO SECTION 7 - LIGHT	1,096.00	\$3,079.00
RSL070M309	EA	RSL SERIES TOWER 70 FT-SECTION 3 TO SECTION 9 - MEDIUM	1,263.00	\$3,261.00
RSL080H310	EA	RSL SERIES TOWER 80 FT-SECTION 3 TO SECTION 10 - HEAVY	1,502.00	\$3,785.00
RSL080L108	EA	RSL SERIES TOWER 80 FT-SECTION 1 TO SECTION 8 - LIGHT	1,306.00	\$3,568.00
RSL080M209	EA	RSL SERIES TOWER 80 FT-SECTION 2 TO SECTION 9 - MEDIUM	1,403.00	\$3,677.00
RSL090H210	EA	RSL SERIES TOWER 90 FT-SECTION 2 TO SECTION 10 - HEAVY	1,642.00	\$4,201.00
RSL090L109	EA	RSL SERIES TOWER 90 FT-SECTION 1 TO SECTION 9 - LIGHT	1,543.00	\$4,088.00
RSL100S110	EA	RSL SERIES TOWER 100 FT-SECTION 1 TO SECTION 10	1,782.00	\$4,613.00
RSLBA02	EA	RSL SERIES STUB BASE SECT 2	114.00	\$380.00
RSLBA03	EA	RSL SERIES STUB BASE SECT 3	122.00	\$389.00
RSLBA04	EA	RSL SERIES STUB BASE SECT 4	131.00	\$397.00
RSLBA05	EA	RSL SERIES STUB BASE SECT 5	139.00	\$405.00
RSLBA06	EA	RSL SERIES STUB BASE SECT 6	145.00	\$414.00
RSLBA07	EA	RSL SERIES STUB BASE SECT 7	163.00	\$420.00
RSLBA08	EA	RSL SERIES STUB BASE SECT 8	168.00	\$426.00
RSLBA09	EA	RSL SERIES STUB BASE SECT 9	174.00	\$435.00
RSLBA10	EA	RSL SERIES STUB BASE SECT 10	175.00	\$441.00
RSLSB100	EA	STEP BOLT KIT FOR 100' TOWER	80.00	\$686.00
RSLSB20	EA	STEP BOLT KIT FOR 20' TOWER	16.00	\$137.00
RSLSB30	EA	STEP BOLT KIT FOR 30' TOWER	24.00	\$206.00
RSLSB40	EA	STEP BOLT KIT FOR 40' TOWER	32.00	\$275.00
RSLSB50	EA	STEP BOLT KIT FOR 50' TOWER	40.00	\$343.00

**Commercial Price List**  
(Electronic Version)

Part#	UOM	Description	U/W	Price
RSLSB60	EA	STEP BOLT KIT FOR 60' TOWER	48.00	\$412.00
RSLSB70	EA	STEP BOLT KIT FOR 70' TOWER	56.00	\$450.00
RSLSB80	EA	STEP BOLT KIT FOR 80' TOWER	64.00	\$549.00
RSLSB90	EA	STEP BOLT KIT FOR 90' TOWER	72.00	\$618.00
RSLSC030	EA	30' RAM SAFETY CABLE C/W. MOUNTING HARDWARE FOR RSL	31.00	\$388.00
RSLSC050	EA	50' RAM SAFETY CABLE C/W. MOUNTING HARDWARE FOR RSL	54.00	\$434.00
RSLSC080	EA	80' RAM SAFETY CABLE C/W. MOUNTING HARDWARE FOR RSL	60.00	\$510.00
RSLSC100	EA	100' RAM SAFETY CABLE C/W. MOUNTING HARDWARE FOR RSL	64.00	\$531.00
RSLTA01	EA	TOP CLOSING ANGLE KIT - SECTION 1	25.00	\$68.98
RSLTA02	EA	TOP CLOSING ANGLE KIT - SECTION 2	30.00	\$75.25
RSLTA03	EA	TOP CLOSING ANGLE KIT - SECTION 3	35.00	\$77.34
RSLTA04	EA	TOP CLOSING ANGLE KIT - SECTION 4	40.00	\$94.06
RSLTA05	EA	TOP CLOSING ANGLE KIT - SECTION 5	46.00	\$96.15
RSLTM12	EA	TOP PLATE AND ANTENNA WELDMENT	65.00	\$221.56
RSLTM34	EA	TOP PLATE AND ANTENNA WELDMENT	95.00	\$303.07
RSLTM56	EA	TOP PLATE AND ANTENNA WELDMENT	125.00	\$386.68
R-SR245	EA	25G & 45G SAFETY RING	8.00	\$167.00
R-SR55	EA	55G SAFETY RING	10.00	\$202.00
R-SS040D70EXC	EA	SSV TOWER KIT, 70 MPH, NI, 40'	344.90	\$1,660.00
R-SS040D90	EA	SSV TOWER KIT, 90 MPH, NI, 40'	873.20	\$2,810.00
R-SS050D90	EA	SSV TOWER KIT, 90 MPH, NI, 50'	1,383.80	\$4,210.00
R-SS060D70	EA	SSV TOWER KIT, 70 MPH, NI, 60'	1,025.80	\$3,360.00
R-SS060D70EXC	EA	SSV TOWER KIT, 70 MPH, NI, 60'	593.80	\$2,410.00
R-SS060D80EXC	EA	SSV TOWER KIT, 80 MPH, NI, 60'	594.70	\$2,410.00
R-SS060D90	EA	SSV TOWER KIT, 90 MPH, NI, 60'	1,467.50	\$4,410.00
R-SS070D70	EA	SSV TOWER KIT, 70 MPH, NI, 70'	1,089.70	\$3,760.00
R-SS070D90	EA	SSV TOWER KIT, 90 MPH, NI, 70'	1,844.70	\$5,739.00
R-SS080D70	EA	SSV TOWER KIT, 70 MPH, NI, 80'	1,620.10	\$4,960.00
R-SS080D70EXC	EA	SSV TOWER KIT, 70 MPH, NI, 80'	1,132.80	\$3,885.00
R-SS080D80EXC	EA	SSV TOWER KIT, 80 MPH, NI, 80'	1,132.80	\$3,885.00
R-SS080D90	EA	SSV TOWER KIT, 90 MPH, NI, 80'	1,928.40	\$5,939.00
R-SS090D70	EA	SSV TOWER KIT, 70 MPH, NI, 90'	1,683.00	\$5,360.00
R-SS090D90	EA	SSV TOWER KIT, 90 MPH, NI, 90'	2,387.20	\$7,339.00
R-SS100D70	EA	SSV TOWER KIT, 70 MPH, NI, 100'	2,050.80	\$6,489.00
R-SS100D70EXC	EA	SSV TOWER KIT, 70 MPH, NI, 100'	1,727.10	\$5,485.00
R-SS100D90	EA	SSV TOWER KIT, 90 MPH, NI, 100'	2,468.70	\$7,539.00
R-SS110D70	EA	SSV TOWER KIT, 70 MPH, NI, 110'	2,113.70	\$6,889.00
R-SS110D90	EA	SSV TOWER KIT, 90 MPH, NI, 110'	3,135.10	\$9,064.00
R-SS120D70	EA	SSV TOWER KIT, 70 MPH, NI, 120'	2,653.80	\$8,089.00
R-SS120D70EXC	EA	SSV TOWER KIT, 70 MPH, NI, 120'	2,188.00	\$7,014.00
R-SS120D90	EA	SSV TOWER KIT, 90 MPH, NI, 120'	3,218.80	\$9,264.00
R-SS130D70	EA	SSV TOWER KIT, 70 MPH, NI, 130'	2,716.70	\$8,489.00

**Commercial Price List**  
(Electronic Version)

Part#	UOM	Description	U/W	Price
R-SS130D90	EA	SSV TOWER KIT, 90 MPH, NI, 130'	4,023.00	\$11,114.00
R-SS140D70	EA	SSV TOWER KIT, 70 MPH, NI, 140'	3,371.40	\$9,814.00
R-SS140D70EXC	EA	SSV TOWER KIT, 70 MPH, NI, 140'	2,760.80	\$8,614.00
R-SS140D90	EA	SSV TOWER KIT, 90 MPH, NI, 140'	4,166.70	\$11,314.00
R-SS150D70	EA	SSV TOWER KIT, 70 MPH, NI, 150'	3,434.40	\$10,214.00
R-SS150D90	EA	SSV TOWER KIT, 90 MPH, NI, 150'	5,017.50	\$13,424.00
R-SS160D70	EA	SSV TOWER KIT, 70 MPH, NI, 160'	4,140.60	\$11,764.00
R-SS160D70EXC	EA	SSV TOWER KIT, 70 MPH, NI, 160'	3,478.40	\$10,339.00
R-SS160D90	EA	SSV TOWER KIT, 90 MPH, NI, 160'	5,101.20	\$13,624.00
R-SS170D70	EA	SSV TOWER KIT, 70 MPH, NI, 170'	4,173.20	\$12,497.00
R-SS170D90	EA	SSV TOWER KIT, 90 MPH, NI, 170'	6,538.30	\$16,399.00
R-SS180D70	EA	SSV TOWER KIT, 70 MPH, NI, 180'	5,015.80	\$13,924.00
R-SS180D70EXC	EA	SSV TOWER KIT, 70 MPH, NI, 180'	4,215.00	\$12,289.00
R-SS180D90	EA	SSV TOWER KIT, 90 MPH, NI, 180'	6,642.00	\$16,599.00
R-SS190D70	EA	SSV TOWER KIT, 70 MPH, NI, 190'	5,078.80	\$14,324.00
R-SS190D90	EA	SSV TOWER KIT, 90 MPH, NI, 190'	8,430.90	\$19,799.00
R-SSBFA120	EA	FLASHER PC BOARD ASSY 120V	0.50	\$113.00
R-SSBFA230	EA	FLASHER PC BOARD ASSY 230V	0.90	\$113.00
R-SSM11	EA	FLASHER, SOLID STATE DRIVER MODULE 120V	0.20	\$189.00
R-SSV-25-6B	EA	MOUNT, IW BOOM, SSV SERIES	61.00	\$620.00
R-SSV-25-9B	EA	MOUNT, IW BOOM, SSV SERIES	81.00	\$660.00
R-SSV-6-6B	EA	MOUNT, IW BOOM, SSV SERIES	69.00	\$490.00
R-SSV-6-12B	EA	MOUNT, IW BOOM, SSV SERIES	110.00	\$897.00
R-SSV-6-18B	EA	MOUNT, IW BOOM, SSV SERIES	89.00	\$505.00
R-SSV-7-15B	EA	MOUNT, IW BOOM, SSV SERIES	133.00	\$695.00
R-SSV-8-10-15B	EA	MOUNT, IW BOOM, SSV SERIES	136.00	\$560.00
R-SSV-8-12B	EA	MOUNT, IW BOOM, SSV SERIES	103.00	\$737.00
R-SSV-8-9B	EA	MOUNT, IW BOOM, SSV SERIES	87.80	\$385.00
R-SSV-9-10-18B	EA	MOUNT, IW BOOM, SSV SERIES	147.00	\$720.00
R-ST25AG	EA	25G TOP SECTION 5'	18.00	\$205.00
R-T100UM	EA	MOUNT, DISH, TAPERED 10' LEG, WITH 5" PIPE	125.00	\$315.00
R-T100UMLP	EA	MOUNT, DISH, TAPERED 10' LEG	65.00	\$179.00
R-T120UM	EA	MOUNT, DISH, TAPERED 12' LEG, WITH 5" PIPE	125.00	\$236.00
R-T20UM	EA	MOUNT, DISH, TAPERED 2' LEG, WITH 5" PIPE	90.00	\$221.00
R-T20UMLP	EA	MOUNT, DISH, TAPERED 2' LEG	32.00	\$112.00
R-T24HUM	EA	MOUNT, DISH, TAPERED 2' LEG, WITH 6.6" PIPE	127.00	\$449.00
R-T24HUMTB	EA	MOUNT, DISH, TAPERED 2' LEG, WITH 6.6" PIPE	150.00	\$522.00
R-T25HUM	EA	MOUNT, DISH, TAPERED 2.5' LEG, WITH 6.6" PIPE	110.00	\$405.00
R-T25UM	EA	MOUNT, DISH, TAPERED 2.5' LEG, WITH 5" PIPE	90.00	\$226.00
R-T30HUM	EA	MOUNT, DISH, TAPERED 3' LEG, WITH 6.6" PIPE	130.00	\$403.00
R-T30UM	EA	MOUNT, DISH, TAPERED 3' LEG, WITH 5" PIPE	90.00	\$220.00
R-T30UMH	EA	MOUNT, DISH, TAPERED 3' LEG, WITH 5" PIPE HVY	100.00	\$600.00
R-T35UM	EA	MOUNT, DISH, TAPERED 3.5' LEG, WITH 5" PIPE	90.00	\$220.00
R-T40HUM	EA	MOUNT, DISH, TAPERED 4' LEG, WITH 6.6" PIPE	110.00	\$396.00
R-T40UM	EA	MOUNT, DISH, TAPERED 4' LEG, WITH 5" PIPE	90.00	\$220.00

### Commercial Price List

(Electronic Version)

Part#	UOM	Description	U/W	Price
R-T40UMH	EA	MOUNT, DISH, TAPERED 4' LEG, WITH 5" PIPE HVY	109.00	\$269.00
R-T40UMLP	EA	MOUNT, DISH, TAPERED 4' LEG	30.00	\$116.00
R-T50HUM	EA	MOUNT, DISH, TAPERED 5' LEG, WITH 6.6" PIPE	115.00	\$409.00
R-T50UM	EA	MOUNT, DISH, TAPERED 5' LEG, WITH 5" PIPE	100.00	\$330.00
R-T50UMH	EA	MOUNT, DISH, TAPERED 5' LEG, WITH 5" PIPE HVY	110.00	\$600.00
R-T50UMLP	EA	MOUNT, DISH, TAPERED 5' LEG	40.00	\$120.00
R-T56HUM	EA	MOUNT, DISH, TAPERED 5.6' LEG, WITH 6.6" PIPE	130.00	\$443.00
R-T56HUMTB	EA	MOUNT, DISH, TAPERED 5.6' LEG, WITH 6.6" PIPE	155.00	\$493.00
R-T60HUM	EA	MOUNT, DISH, TAPERED 6' LEG, WITH 6.6" PIPE	115.00	\$521.00
R-T60HUMH	EA	MOUNT, DISH, TAPERED 6' LEG, WITH 6.6" PIPE HVY	125.00	\$600.00
R-T60UM	EA	MOUNT, DISH, TAPERED 6' LEG, WITH 5" PIPE	100.00	\$330.00
R-T60UMH	EA	MOUNT, DISH, TAPERED 6' LEG, WITH 5" PIPE HVY	106.00	\$368.00
R-T60UMLP	EA	MOUNT, DISH, TAPERED 6' LEG	41.00	\$148.00
R-T80HUM	EA	MOUNT, DISH, TAPERED 8' LEG, WITH 6.6" PIPE	140.00	\$467.00
R-T80UM	EA	MOUNT, DISH, TAPERED 8' LEG, WITH 5" PIPE	120.00	\$315.00
R-TA25	EA	25G TORQUE ARM STABILIZER ASSEMBLY	35.00	\$280.00
R-TA45	EA	45G TORQUE ARM STABILIZER ASSEMBLY	56.00	\$470.00
R-TA55	EA	55G TORQUE ARM STABILIZER ASSEMBLY	60.00	\$398.00
R-TA656	EA	65G CHANNEL TORQUE ARM, 6"	177.00	\$730.00
R-TA658	EA	65G CHANNEL TORQUE ARM, 8"	230.00	\$897.00
R-TB25D	EA	25G TORQUE BAR KIT	6.00	\$72.00
R-TB3	EA	25G, 45AG, 55AG HD THRUST BEARING	2.50	\$144.00
R-TB4	EA	45AG, 55AG HD THRUST BEARING	3.00	\$169.00
R-TB45D	EA	45G TORQUE BARS	10.00	\$96.00
R-TB50	EA	25AG, 45AG TOWER BUSHING, 1.25" ID	0.50	\$8.65
R-TB5125B	EA	U-BOLT, HDG, DOUBLE BEND, 5/16", FOR 1.25" TUBE	0.30	\$1.35
R-TB5125BA	EA	U-BOLT ASSY, HDG, DOUBLE BEND, 5/16", FOR 1.25" TUBE	0.54	\$2.40
R-TB55D	EA	55G TORQUE BARS	13.00	\$121.00
R-TB75	EA	25AG, 45AG TOWER BUSHING, 1.50" ID	0.50	\$14.00
R-TB8250	EA	U-BOLT, HDG, DOUBLE BEND, 1/2", FOR 2" PIPE	1.30	\$7.30
R-TB8250A	EA	U-BOLT ASSY, HDG, DOUBLE BEND, 1/2", FOR 2" PIPE	2.50	\$16.00
R-TBSAFETY	EA	CABLE 15' 1/4GW W/2 1/4CCM	1.20	\$11.00
R-TBSAFETY-3	EA	CABLE 15' 1/4GW W/2 1/4CCM - SET OF 3	3.60	\$33.00
R-TL02	EA	POST SAFETY CABLE 1.58HX5.24'	24.00	\$94.00
R-TLC48	EA	RELAY PLUG IN 12VDC	0.10	\$38.00
R-TRT36	EA	TRIPOD ROOF TOWER, 3'	7.00	\$21.00
R-TRT60	EA	TRIPOD ROOF TOWER, 5'	10.00	\$38.00
R-TRTAG2	EA	MOUNT HEAVY DUTY ROOF	40.00	\$155.00
R-TRTBAG	EA	HARDWARE BAG FOR TRT FEET	0.50	\$6.22
R-UHF25G	EA	25G SIDE ARM MOUNT	4.00	\$29.00
R-ULC350	EA	LIGHTING CONTROL WALARM A/BEI	18.00	\$1,560.00
R-ULC700	EA	LIGHTING CONTROL WALARM OB & BEACON	37.00	\$2,595.00
R-UM20	EA	RIDGE MOUNT, 1-1/2" DIA	1.30	\$44.00
R-UM30	EA	RIDGE MOUNT, 1-3/4" DIA	1.70	\$36.00
R-UM40	EA	RIDGE MOUNT, 2" DIA	1.80	\$35.00
R-UM50	EA	RIDGE MOUNT, 2-1/4" DIA	1.90	\$47.00
R-URM	EA	UNIVERSAL ROOF MOUNT FOR TVRO	50.00	\$184.00
R-VU140	EA	SSV ROTOR PLATE ASSEMBLY FOR 3WNST, 3WNB	75.00	\$649.00



**Commercial Price List**  
(Electronic Version)

Part#	UOM	Description	U/W	Price
R-VU474A	EA	SSV ROTOR PLATE ASSEMBLY FOR 3WN	55.00	\$740.00
R-VU479A	EA	SSV ROTOR PLATE ASSEMBLY FOR 1W, 2W	38.00	\$395.00
R-VVM4	EA	4" WALL MOUNT (FOR 1-1/4" - 1-3/4" MAST)	1.40	\$59.00
R-VY3092A	EA	LADDER, CLIMBING, STANDARD, INSIDE CORNER MOUNT, 10' LONG	68.10	\$260.00
R-VY3093A	EA	LADDER, CLIMBING, STANDARD, INSIDE CORNER MOUNT, 20' LONG	105.50	\$364.00
R-VY3094A	EA	LADDER, CLIMBING, STANDARD, INSIDE CORNER MOUNT, 10' LONG	69.10	\$260.00
R-VY3095A	EA	LADDER, CLIMBING, STANDARD, INSIDE CORNER MOUNT, 20' LONG	106.50	\$364.00
R-VY4493A	EA	MOUNT, SIDE ARM ASSY, 4', WITH 4" PIPE	196.00	\$450.00
R-VY4494A	EA	MOUNT, SIDE ARM ASSY, 6', WITH 4" PIPE	229.00	\$550.00
R-VY4495A	EA	MOUNT, SIDE ARM ASSY, 8', WITH 4" PIPE	262.00	\$1,307.00
R-VY4496A	EA	TIE-BACK ASSEMBLY, 11', FOR VY4493A, VY4494A, VY4495A	55.00	\$217.00
R-VY4497A	EA	TIE-BACK ASSEMBLY, 15', FOR VY4493A, VY4494A, VY4495A	107.00	\$330.00
R-WAF801211	EA	WAVEGUIDE BRACE BRACKET ASSY, 80/90 TOWERS	4.90	\$17.00
R-WAF801212	EA	WAVEGUIDE BRACE BRACKET ASSY, 80/90 TOWERS	6.20	\$17.00
R-WAF801213	EA	WAVEGUIDE BRACE BRACKET ASSY, 80/90 TOWERS	4.20	\$32.00
R-WAF801214	EA	WAVEGUIDE BRACE BRACKET ASSY, 80/90 TOWERS	5.00	\$33.00
R-WAF801215	EA	WAVEGUIDE BRACE BRACKET ASSY, 80/90 TOWERS	5.40	\$15.00
R-WAF901521	EA	WAVEGUIDE BRACE BRACKET ASSY, 80/90 TOWERS	6.70	\$12.00
R-WBS	EA	WIRING SET BI HI-TEMP	1.30	\$21.00
R-WGBD2410	EA	WAVEGUIDE BRIDGE, 10' LONG, 48" WIDE	675.60	\$1,361.00
R-WGBS2410	EA	WAVEGUIDE BRIDGE, 10' LONG, 24" WIDE	537.70	\$1,058.00
R-WGBS2410LP	EA	WAVEGUIDE BRIDGE, 10' LONG, 24" WIDE W/GRIP STRUT	192.40	\$388.00
R-WL10F153KD	EA	LADDER, WAVEGUIDE, FACE MOUNT, 15 HOLE, 10' LONG	45.00	\$80.00
R-WL10F154KD	EA	LADDER, WAVEGUIDE, FACE MOUNT, SSMW, 15 HOLE, 10' LONG	40.00	\$105.00
R-WL10F83KD	EA	LADDER, WAVEGUIDE, FACE MOUNT, 8 HOLE, 10' LONG	38.00	\$80.00
R-WL10F84KD	EA	LADDER, WAVEGUIDE, FACE MOUNT, SSMW, 8 HOLE, 10' LONG	36.00	\$80.00
R-WL10F93KD	EA	LADDER, WAVEGUIDE, FACE MOUNT, SSMW, 9 HOLE, 10' LONG	33.30	\$130.00
R-WL10F94KD	EA	LADDER, WAVEGUIDE, FACE MOUNT, 9 HOLE, 10' LONG	33.10	\$103.00
R-WL20F153KD	EA	LADDER, WAVEGUIDE, FACE MOUNT, 15 HOLE, 20' LONG	85.00	\$160.00
R-WL20F154KD	EA	LADDER, WAVEGUIDE, FACE MOUNT, SSMW, 15 HOLE, 20' LONG	75.00	\$160.00
R-WL20F83KD	EA	LADDER, WAVEGUIDE, FACE MOUNT, 8 HOLE, 20' LONG	80.00	\$160.00
R-WL20F84KD	EA	LADDER, WAVEGUIDE, FACE MOUNT, SSMW, 8 HOLE, 20' LONG	75.00	\$160.00
R-WL20F93KD	EA	LADDER, WAVEGUIDE, FACE MOUNT, SSMW, 9 HOLE, 20' LONG	62.20	\$253.00
R-WL20F94KD	EA	LADDER, WAVEGUIDE, FACE MOUNT, 9 HOLE, 20' LONG	61.80	\$205.00
R-WM12D	EA	WALL MOUNT DOUBLE 12"	3.50	\$23.00
R-WM12S	EA	WALL MOUNT SINGLE 12"	2.50	\$11.00
R-WM18D	EA	WALL MOUNT DOUBLE 18"	6.00	\$39.00
R-WM18S	EA	WALL MOUNT SINGLE 18"	4.50	\$11.00
R-WM21Z	EA	WALL MOUNT W/6" X 2-3/8" O.D. MAST	50.00	\$143.00
R-WM24D	EA	WALL MOUNT DOUBLE 24"	9.00	\$24.00
R-WM24S	EA	WALL MOUNT SINGLE 24"	6.50	\$13.00
R-WM30S	EA	WALL MOUNT DOUBLE 30"	3.50	\$13.00

**Commercial Price List**  
(Electronic Version)

Part#	UOM	Description	U/W	Price
R-WM4	EA	WALL MOUNT 4" (FOR 1-1/4" - 2-3/4" MAST)	1.60	\$9.76
R-WM6S	EA	WALL MOUNT SINGLE 6"	1.90	\$16.00
R-WM8D	EA	WALL MOUNT DOUBLE 8"	2.00	\$18.00
R-WM8S	EA	WALL MOUNT SINGLE 8"	1.60	\$9.93
R-WP25G	EA	25G WORK PLATFORM	10.00	\$104.00
R-WP45G	EA	45G WORK PLATFORM	14.00	\$126.00
R-WP55G	EA	55G WORK PLATFORM	15.00	\$170.00
R-WPCC65	EA	65G WORK PLATFORM	35.00	\$885.00
R-WR100	EA	WRAPLOCK, 1/2X100 T430 STAINLESS STEEL	3.00	\$72.00
R-WY3080A	EA	CLAMP, ROUND 1.3" - 2.375" MEMBER, FOR WL20/10F8493KD & WL20/10F154KD	2.30	\$23.00
R-WY3081A	EA	CLAMP, ROUND 2.875" - 3.5" MEMBER, FOR WL20/10F8493KD & WL20/10F154KD	2.50	\$17.00
R-WY3082A	EA	CLAMP, ROUND 4.0" - 4.5" MEMBER, FOR WL20/10F8493KD & WL20/10F154KD	2.20	\$16.00
R-WY3083A	EA	CLAMP, ROUND 5.6" MEMBER, FOR WL20/10F8493KD & WL20/10F154KD	4.60	\$22.00
R-WY4559A	EA	CLAMP, ROUND 6.6" MEMBER, FOR WL20/10F8493KD & WL20/10F154KD	5.60	\$36.00
SCL001-1	KI	20' RAM SAFE RAIL C/W HARDWARE	18.00	\$100.00
SCL001-2	KI	10' RAM SAFE RAIL C/W HARDWARE	9.00	\$50.00
SCL001-3	KI	20' RAM SAFE RL C/W HRDWRE-TOP	18.00	\$92.00
SCL001-4	KI	10' RAM SAFE RL C/W HRDWRE-TOP	9.00	\$45.00
SCL001-5	KI	SAFETY RAIL CLAMP	2.00	\$1.90
SCL010-1	EA	25' SAFETY CABLE SYSTEM KIT	48.00	\$290.00
SCL010-10	EA	500' SAFETY CABLE SYSTEM KIT	162.00	\$864.00
SCL010-2	EA	50' SAFETY CABLE SYSTEM KIT	54.00	\$281.00
SCL010-3	EA	100' SAFETY CABLE SYSTEM KIT	66.00	\$342.00
SCL010-4	EA	150' SAFETY CABLE SYSTEM KIT	78.00	\$408.00
SCL010-5	EA	200' SAFETY CABLE SYSTEM KIT	91.00	\$479.00
SCL010-6	EA	250' SAFETY CABLE SYSTEM KIT	102.00	\$543.00
SCL010-7	EA	300' SAFETY CABLE SYSTEM KIT	113.00	\$605.00
SCL010-8	EA	350' SAFETY CABLE SYSTEM KIT	126.00	\$670.00
SCL010-9	EA	400' SAFETY CABLE SYSTEM KIT	138.00	\$734.00
SCL010-S	EA	CABLE SAFETY SLEEVE (SLIDER) KIT	2.00	\$173.00
SCL013-1	EA	25' SAFETY CABLE SYSTEM - 1-1/2" TO 4-1/2" DIA. LEG	90.00	\$493.00
SCL013-10	EA	500' SAFETY CABLE SYSTEM - 1-1/2" TO 4-1/2" DIA. LEG	204.00	\$1,689.00
SCL013-2	EA	50' SAFETY CABLE SYSTEM - 1-1/2" TO 4-1/2" DIA. LEG	96.00	\$502.00
SCL013-3	EA	100' SAFETY CABLE SYSTEM - 1-1/2" TO 4-1/2" DIA. LEG	108.00	\$612.00
SCL013-4	EA	150' SAFETY CABLE SYSTEM - 1-1/2" TO 4-1/2" DIA. LEG	120.00	\$865.00
SCL013-5	EA	200' SAFETY CABLE SYSTEM - 1-1/2" TO 4-1/2" DIA. LEG	133.00	\$841.00
SCL013-6	EA	250' SAFETY CABLE SYSTEM - 1-1/2" TO 4-1/2" DIA. LEG	144.00	\$971.00
SCL013-7	EA	300' SAFETY CABLE SYSTEM - 1-1/2" TO 4-1/2" DIA. LEG	155.00	\$1,088.00
SCL013-8	EA	350' SAFETY CABLE SYSTEM - 1-1/2" TO 4-1/2" DIA. LEG	168.00	\$1,205.00
SCL013-9	EA	400' SAFETY CABLE SYSTEM - 1-1/2" TO 4-1/2" DIA. LEG	180.00	\$1,322.00
SCL013-G	PC	RAM SAFETY CABLE GUIDE RND LEG	0.00	\$46.00
SCL015-1	EA	25' SAFETY CABLE SYSTEM	65.00	\$602.00
SCL015-2	EA	50' SAFETY CABLE SYSTEM	71.00	\$615.00
SCL015-3	EA	100' SAFETY CABLE SYSTEM	83.00	\$751.00
SCL015-4	EA	150' SAFETY CABLE SYSTEM	95.00	\$739.00
SCL015-5	EA	200' SAFETY CABLE SYSTEM	108.00	\$1,028.00



**Radian  
Communication  
Services**

6718 W. Plank Rd  
Peoria, IL, 61604  
Telephone + 1 309 697 4400  
Facsimile + 1 309 697 5812  
www.radiancorp.com

June 07, 2006

State of West Virginia  
DHHR, BPH & STECS  
Charleston, WV, 25305-0130

Radian Quote No: Q6-060-0583  
Version No: 9  
Project: 140' SS Tower

Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radian Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 140 ft Self-Support Tower Radian Model SSV \$23,840.00

**Design Notes:**

1. Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within +/- 1.5ft (0.5m).
2. Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
3. All welding conforms to AWS.
4. Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.

**Structure Price Include(s):**

Tower Structure	Included
Anchor Bolts	Included
Anchor Bolt Templates	Included
Lightning Protection, 5' Lightning Rod	Included
Climbing Facility, Step Bolts	Included
Fall Protect, RAM - Cable c/w trolley	Included
12 Ft Mounting Frames w/(12)Mtg Pipes (ea)	Included
Grounding, EIA	Included
<b>Total Price US Dollars</b>	<b>\$23,840.00</b>
<i>Estimated Tower Freight (to Charleston, WV)</i>	<i>\$1650.00</i>
<i>Additional Freight for advanced shipment of Embedded Material (to Charleston, WV)</i>	<i>\$350.00</i>
<i>(Freight is estimated FOB Peoria unless otherwise noted - Actual will be invoiced at shipment)</i>	
Applicable Federal/State Taxes	Not Included

**Optional Items (Not included in structure total) :**

Lighting, MI Dual	\$4,838.00
Ice Protection for Lighting	\$295.00
(1) Waveguide ladder to tower top	\$ 672.00

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**TO PLACE AN ORDER AGAINST THE ABOVE PROPOSAL, PLEASE FAX OR EMAIL YOUR PURCHASE ORDER TO:**

Radian Contact: Ken Cordrey

Ph: 410-778-4441

Fx: 410-778-3096

Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

**WE THANK YOU FOR YOUR BUSINESS!**

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## Antennas, Ancillaries and Transmission Lines

Description	Qty	Elev.(ft)	Azimuth	Mount	TX Lines	Qty	Line Support
1'x4' PANELS	12	137	N/A	Included	LDF7-50A	12	Optional
6' HP DISH	2	120	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	107	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	94	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	80	N/A	Optional	LDF7-50A	9	Optional
4 SF EPA WHIP W/6' SA	2	130	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	110	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	90	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	70	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	50	N/A	Optional	LDF5-50A	2	Optional

**Quote Specific Terms:**

- 1- This proposal is valid for 30 days from the quotation date. Please refer to Radian's proposal number when submitting a purchase order.
- 2- Terms for materials are Net 30 days after shipment from the point of manufacturing.
- 3- This proposal is subject to the attached Terms and Conditions of Sale.
- 4- Foundation and lower designs charges, if ordered independently, are \$1500. This cost is deductible from the overall price of the structure once the structure is released for production and shipped.
- 5- Quoted prices do not include taxes. Refer to Terms and Conditions of Sale. Taxes will be invoiced unless an exemption certificate is provided with the order.
- 6- Delivery schedules are contingent upon the backlog at the time of order and the availability of materials.
- 7- Certification of Radian's products or foundation designs based on specifications provided to Radian do not include services for serving as a project's prime professional or engineer of record for the purposes of reviewing and coordinating documents submitted for a building permit, including deferred submittals and documents prepared by others. Radian has not verified that the design parameters provided to Radian for this proposal meets the requirements for the intended application or meets the requirements of the appropriate regulatory agencies. Price adjustments may apply for requirements in addition to those stated in this proposal.
- 8- Prices for foundations designs to be based on geotechnical data to be supplied at the time of an order are based on the design of conventional foundations consisting of pier & pad, caissons, mat and deadman anchor blocks. Other types of foundation designs, if required for site-specific conditions, will be quoted upon receipt of the geotechnical data.
- 9- Materials and services placed on hold for more than 15 days after placement of an order will be subject to a price review upon notification to proceed with the order. This may result in an increase to the quoted prices.
- 10- For structures to be shipped by the customer at the point of manufacturing, dunnage and loading charges of \$350 may apply and will be invoiced with the structure.
- 11- Storage charges of \$8.00 a day will be invoiced on a monthly basis for material requested to be withheld from shipment starting 30 days from the initial notification from Radian that the material was available for shipment.
- 12- Freight pricing is subject to change due to extreme freight price fluctuations and will be reviewed and confirmed at the time an order is placed for the quoted materials.
- 13- Additional freight may apply for optional items ordered. Prices for optional items are based on the optional items being ordered with the structure
- 14- Acceptance of an order will be contingent on customer credit approval.
- 15- Design profile provided at time of quotation is preliminary and is subject to change based upon final design.
- 16- This quotation is proprietary, confidential and a trade secret of Radian. This proposal is being provided for the exclusive use of our customer and is not to be disclosed to third parties.
- 17- Unless noted above, Radian general terms and conditions (attached) apply.

## General Terms and Conditions of Sale

**General** – In accordance with the usage of trade, we conclusively presume by the absence of any written objection and by the acceptance of part or all of the material ordered that:

\* All proposals, negotiations, and representations regarding a transaction that are made prior to the date of this document, if any, are hereby merged into this document.

\* The agreement and language herein shall be construed and enforced in accordance with the laws of the State of Delaware and the federal laws of the United States, applicable therein as of the date of e-mail confirmation of your order.

\* A finance charge, at the monthly rate of 2 %, will be assessed on past due invoices where allowed by applicable law.

**Delay** – We shall be excused for any delay in performance caused by acts of God, war, riot, embargoes, acts of civil or military authorities, fires, floods, accidents, quarantine restrictions, mail conditions, strikes, differences with workers, delays in transportation, shortages of raw, fact, labor or materials or any other circumstances or causes beyond the control of our reasonable conduct of business.

**Title and Risk of Loss** – Full risk of loss, including transportation delays and losses, shall pass to you upon delivery of products to the FOB point. However, we retain title, for security purposes only, if all products are not paid in full in cash. In the event that you default in payments hereunder, we, at our option, may repossess all unpaid products and charge you with any deficiency.

**Terms** – Terms are net 30 days from invoice date on approved credit.

**Credit Approval** – Shipment, deliveries, and performance of work shall at all times be at the approval of your credit. We may at any time decline to make any shipment or delivery, or to perform anywork, except on receipt of payment or security, or upon terms and conditions satisfactory to us.

**Taxes** – When we are required to collect or pay taxes under any existing or future law, the taxes shall be for your account, and you will, upon demand, make prompt payment of the amount thereof to us. Applicable taxes may be in regard to the sale, purchase, delivery, storage, processing, use or consumption of any products covered herein, including taxes based on the receipts from the sale thereof. Taxes are not included in any published or quoted price shown, unless specifically identified as such.

**Warranty** – All products are warranted to be free of defects in material and workmanship. The warranty is effective for two years, commencing on the date of shipment.

**Buyer's Remedies** – If the material furnished to you should fail, whether due to our negligent acts or omissions, to nonconformity, or otherwise, with these terms and conditions, or to any expressed or implied warranty, we shall replace such failed products at the original point of delivery. Instructions will be furnished to you for the disposition of the failed products, and any transportation charges involved in the disposition shall be to our account.

**YOUR EXCLUSIVE AND SOLE REMEDY IN REGARD TO HAVING RECEIVED FAILED PRODUCTS, WHETHER DUE TO OUR NEGLIGENT ACTS OR OMISSIONS, TO NONCONFORMITY, OR OTHERWISE, WITH THESE TERMS AND CONDITIONS, OR TO ANY EXPRESSED OR IMPLIED WARRANTY SHALL BE TO OBTAIN REPLACEMENT AS SPECIFIED ABOVE. WE SHALL NOT IN ANY EVENT BE LIABLE FOR THE COST OF ANY LABOR EXPENDED IN ANY SUCH PRODUCTS, OR FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES DUE TO THE PRODUCT'S NONCONFORMITY WITH THESE TERMS AND CONDITIONS OR TO ANY EXPRESSED OR IMPLIED WARRANTY.**

**Cancellation** – Orders accepted by us are non-cancelable by you unless agreed to in writing by us. If you provide a written request to cancel an entire order, or any portion thereof, and we agree in writing to such request, you will then be responsible for a reasonable fee reflecting the non-recoverable base and material costs, with reasonable profit, expended by us prior to cancellation.

**Packaging for Shipment** – The pricing for our products include packing for standard ground domestic shipments, such as motor freight or package carriers.

When special packaging is required for other means of shipment, such as for air shipment, ocean freight, etc., additional charges will apply and will be added to the order. Pricing for such special packaging will be furnished to you upon request.

**Freight** – Freight prices, if shown, are estimated for the stated mode of transportation and are based on tariffs and rates in effect at the time of the quotation. Freight charges are to your account. Point of delivery of all products is defined as the nearest dock or terminal used or arranged for by the appointed carrier, and that which is nearest to the construction site(s).

Handling and further transportation from the defined point of delivery will be your responsibility unless specifically included in the quotation.

**Customer Specified Shipping and Freight Terms** – We shall comply with the customer-specified shipping instructions and freight terms, provided they are stated in the written purchase order. On verbal purchase orders, we shall comply with the customer-specified shipping instructions and freight terms. However, in the event a confirming purchase order with different shipping instructions or freight terms is received after the order has shipped, the instructions and terms in the verbal purchase order will control. Written and verbal purchase orders that specify the destination, without specifying routing instructions and/or freight terms, will be shipped by a carrier and with freight terms (prepaid, collect, COD, etc.) of our choice.

Under no circumstances shall we be responsible or back-charged for the loss of customer freight advantages due to routing instructions and/or freight terms.

**Shortage and Damage Claims** – All claims of shortages and damage must be filed within seven days of receipt of material.


**Radian  
Communication  
Services**

6718 W. Plank Rd  
Peoria, IL 61604  
Telephone + 1 309 697 4400  
Facsimile + 1 309 697 5012  
www.radiancorp.com

June 07, 2006

State of West Virginia  
DHHR, BPH & STECS  
Charleston, WV, 25305-0130

<b>Radian Quote No: Q6-060-0583</b> <b>Version No: 10</b> <b>Project: 160' SS Tower</b>
---

Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radian Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 160 ft Self-Support Tower Radian Model SSV **\$27,940.00**

**Design Notes:**

1. Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within +/- 1.5ft (0.5m).
2. Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
3. All welding conforms to AWS.
4. Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.

**Structure Price Include(s):**

Tower Structure	Included
Anchor Bolts	Included
Anchor Bolt Templates	Included
Lightning Protection, 5' Lightning Rod	Included
Climbing Facility, Step Bolts	Included
Fall Protect, RAM - Cable c/w trolley	Included
Grounding, EIA	Included
12 Ft Mounting Frames w/(12)Mtg Pipes (ea)	Included
<b>Total Price US Dollars</b>	<b>\$27,940.00</b>
<i>Estimated Tower Freight</i>	<i>\$1,650.00</i>
<i>Additional Freight for advanced shipment of Embedded Material</i>	<i>\$350.00</i>
<i>(Freight is estimated FOB Peoria unless otherwise noted - Actual will be invoiced at shipment)</i>	
Applicable Federal/State Taxes	Not Included



**Optional Items (Not included in structure total) :**

Lighting, MI Dual	\$4,838.00
Ice Protection for Lighting	\$295.00
(1) Waveguide ladder to tower top	\$768.00

---

**TO PLACE AN ORDER AGAINST THE ABOVE PROPOSAL, PLEASE FAX OR EMAIL YOUR PURCHASE ORDER TO:**

Radian Contact: Ken Cordrey

Ph: 410-778-4441

Fx: 410-778-3096

Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

**WE THANK YOU FOR YOUR BUSINESS!**

---

## Antennas, Ancillaries and Transmission Lines

Description	Qty	Elev.(ft)	Azimuth	Mount	TX Lines	Qty	Line Support
1'x4' PANELS	12	157	N/A	Included	LDF7-50A	12	Optional
6' HP DISH	2	140	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	120	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	100	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	80	N/A	Optional	LDF7-50A	9	Optional
4 SF EPA WHIP W/6' SA	2	150	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	125	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	100	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	75	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	50	N/A	Optional	LDF5-50A	2	Optional

**Quote Specific Terms:**

- 1- This proposal is valid for 30 days from the quotation date. Please refer to Radian's proposal number when submitting a purchase order.
- 2- Terms for materials are Net 30 days after shipment from the point of manufacturing.
- 3- This proposal is subject to the attached Terms and Conditions of Sale.
- 4- Foundation and tower designs charges, if ordered independently, are \$1500. This cost is deductible from the overall price of the structure once the structure is released for production and shipped.
- 5- Quoted prices do not include taxes. Refer to Terms and Conditions of Sale. Taxes will be invoiced unless an exemption certificate is provided with the order.
- 6- Delivery schedules are contingent upon the backlog at the time of order and the availability of materials.
- 7- Certification of Radian's products or foundation designs based on specifications provided to Radian do not include services for serving as a project's prime professional or engineer of record for the purposes of reviewing and coordinating documents submitted for a building permit, including deferred submittals and documents prepared by others. Radian has not verified that the design parameters provided to Radian for this proposal meets the requirements for the intended application or meets the requirements of the appropriate regulatory agencies. Price adjustments may apply for requirements in addition to those stated in this proposal.
- 8- Prices for foundations designs to be based on geotechnical data to be supplied at the time of an order are based on the design of conventional foundations consisting of pier & pad, caissons, mat and deadman anchor blocks. Other types of foundation designs, if required for site-specific conditions, will be quoted upon receipt of the geotechnical data.
- 9- Materials and services placed on hold for more than 15 days after placement of an order will be subject to a price review upon notification to proceed with the order. This may result in an increase to the quoted prices.
- 10- For structures to be shipped by the customer at the point of manufacturing, dunnage and loading charges of \$350 may apply and will be invoiced with the structure.
- 11- Storage charges of \$8.00 a day will be invoiced on a monthly basis for material requested to be withheld from shipment starting 30 days from the initial notification from Radian that the material was available for shipment.
- 12- Freight pricing is subject to change due to extreme freight price fluctuations and will be reviewed and confirmed at the time an order is placed for the quoted materials.
- 13- Additional freight may apply for optional items ordered. Prices for optional items are based on the optional items being ordered with the structure.
- 14- Acceptance of an order will be contingent on customer credit approval.
- 15- Design profile provided at time of quotation is preliminary and is subject to change based upon final design.
- 16- This quotation is proprietary, confidential and a trade secret of Radian. This proposal is being provided for the exclusive use of our customer and is not to be disclosed to third parties.
- 17- Unless noted above, Radian general terms and conditions (attached) apply.

## General Terms and Conditions of Sale

**General** - In accordance with the usage of trade, we conclusively presume by the absence of any written objection and by the acceptance of part or all of the material ordered that:

- All proposals, negotiations, and representations regarding a transaction that are made prior to the date of this document, if any, are hereby merged into this document.

- The agreement and language herein shall be construed and enforced in accordance with the laws of the State of Delaware and the federal laws of the United States, applicable therein as of the date of e-mail confirmation of your order.

- A finance charge, at the monthly rate of 2 %, will be assessed on past due invoices where allowed by applicable law.

**Delay** - We shall be excused for any delay in performance caused by acts of God, war, riot, embargoes, acts of civil or military authorities, fires, floods, accidents, quarantine restrictions, mail conditions, strikes, differences with workers, delays in transportation, shortages of cars, fuel, labor or materials or any other circumstances or causes beyond the control of our reasonable conduct of business.

**Title and Risk of Loss** - Full risk of loss, including transportation delays and losses, shall pass to you upon delivery of products to the FOB point. However, we retain title, for security purposes only, if all products are not paid in full in cash. In the event that you default in payments hereunder, we, at our option, may repossess all unpaid products and charge you with any deficiency.

**Terms** - Terms are net 10 days from invoice date on approved credit.

**Credit Approval** - Shipment, delivery, and performance of work shall at all times be at the approval of your credit. We may at any time decline to make any shipment or delivery, or to perform anywork, except on receipt of payment or security, or upon terms and conditions satisfactory to us.

**Taxes** - When we are required to collect or pay taxes under any existing or future law, the taxes shall be for your account, and you will, upon demand, make prompt payment of the amount thereof to us. Applicable taxes may be in regard to the sale, purchase, delivery, storage, processing, use or consumption of any products covered herein, including taxes based on the receipts from the sale thereof. Taxes are not included in any published or quoted price shown, unless specifically identified as such.

**Warranty** - All products are warranted to be free of defects in material and workmanship. The warranty is effective for two years, commencing on the date of shipment.

**Buyer's Remedies** - If the material furnished to you should fail, whether due to our negligent acts or omissions, to nonconformity, or otherwise, with these terms and conditions, or to any expressed or implied warranty, we shall replace such failed products at the original point of delivery. Instructions will be furnished to you for the disposition of the failed products, and any transportation charges involved in the disposition shall be to our account.

**YOUR EXCLUSIVE AND SOLE REMEDY IN REGARD TO HAVING RECEIVED FAILED PRODUCTS, WHETHER DUE TO OUR NEGLIGENT ACTS OR OMISSIONS, TO NONCONFORMITY, OR OTHERWISE, WITH THESE TERMS AND CONDITIONS, OR TO ANY EXPRESSED OR IMPLIED WARRANTY SHALL BE TO OBTAIN REPLACEMENT AS SPECIFIED ABOVE. WE SHALL NOT IN ANY EVENT BE LIABLE FOR THE COST OF ANY LABOR EXPENDED IN ANY SUCH PRODUCTS, OR FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES DUE TO THE PRODUCT'S NONCONFORMITY WITH THESE TERMS AND CONDITIONS OR TO ANY EXPRESSED OR IMPLIED WARRANTY.**

**Cancellation** - Orders accepted by us are non-cancelable by you unless agreed to in writing by us. If you provide a written request to cancel an entire order, or any portion thereof, and we agree in writing to such request, you will then be responsible for a reasonable fee reflecting the non-recoverable time and material costs, with reasonable profit, expended by us prior to cancellation.

**Packaging for Shipment** - The pricing for our products include packing for standard ground domestic shipments, such as motor freight or package carriers.

When special packaging is required for other means of shipment, such as for air shipment, ocean freight, etc., additional charges will apply and will be added to the order. Pricing for such special packaging will be furnished to you upon request.

**Freight** - Freight prices, if shown, are estimated for the stated mode of transportation and are based on tariffs and rates in effect at the time of the quotation. Freight charges are to your account. Point of delivery of all products is defined as the nearest dock or terminal used or arranged for by the appointed carrier, and that which is nearest to the construction site(s).

Handling and further transportation from the defined point of delivery will be your responsibility unless specifically included in the quotation.

**Customer Specified Shipping and Freight Terms** - We shall comply with the customer-specified shipping instructions and freight terms, provided they are stated in the written purchase order. On verbal purchase orders, we shall comply with the customer-specified shipping instructions and freight terms. However, in the event a confirming purchase order with different shipping instructions or freight terms is received after the order has shipped, the instructions and terms in the verbal purchase order will control. Written and verbal purchase orders that specify the destination, without specifying routing instructions and/or freight terms, will be shipped by a carrier and with freight terms (prepaid, collect, COD, etc.) of our choice.

Under no circumstances shall we be responsible or back-charged for the loss of customer freight advantages due to routing instructions and/or freight terms.

**Shortage and Damage Claims** - All claims of shortages and damage must be filed within seven days of receipt of material.


**Radian  
Communication  
Services**

8718 W. Plank Rd  
Peoria, IL 61604  
Telephone + 1 309 697 4400  
Facsimile + 1 309 697 5612  
www.radiancorp.com

June 07, 2006

State of West Virginia  
DHHR, BPH & STECS  
Charleston, WV, 25305-0130

Radian Quote No: Q6-060-0583  
Version No: 11  
Project: 180' SS Tower

Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radian Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 180 ft Self-Support Tower Radian Model SSV \$33,490.00,

**Design Notes:**

1. Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within +/- 1.5ft (0.5m).
2. Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
3. All welding conforms to AWS.
4. Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.

**Structure Price Include(s):**

Tower Structure	Included
Anchor Bolts	Included
Anchor Bolt Templates	Included
Lightning Protection, 5' Lightning Rod	Included
Climbing Facility, Step Bolts	Included
Fall Protect, RAM - Cable c/w trolley	Included
Grounding, EIA	Included
12 Ft Mounting Frames w/(12)Mtg Pipes @ 177' elevation	Included
<b>Total Price US Dollars</b>	<b>\$33,490.00</b>
<i>Estimated Tower Freight</i>	<i>\$1,650.00</i>
<i>Additional Freight for advanced shipment of Embedded Material</i>	<i>\$350.00</i>
<i>(Freight is estimated FOB Peoria unless otherwise noted - Actual will be invoiced at shipment)</i>	
Applicable Federal/State Taxes	Not Included

**Optional Items (Not included in structure total) :**

Lighting, MI Dual	\$4,838.00
Ice Protection for Lighting	\$295.00
(1) Waveguide ladder to tower top	\$864.00

---

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**WE THANK YOU FOR YOUR BUSINESS!**

---

## Antennas, Ancillaries and Transmission Lines

Description	Qty	Elev.(ft)	Azimuth	Mount	TX Lines	Qty	Line Support
1'x4' PANELS	12	177	N/A	Included	LDF7-50A	12	Optional
6' HP DISH	2	160	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	133	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	107	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	80	N/A	Optional	LDF7-50A	9	Optional
4 SF EPA WHIP W/6' SA	2	170	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	140	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	110	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	80	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	50	N/A	Optional	LDF5-50A	2	Optional

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**Delay** - We shall be excused for any delay in performance caused by acts of God, war, riot, embargoes, acts of civil or military authorities, fires, floods, accidents, quarantine restrictions, mail conditions, strikes, differences with workers, delays in transportation, shortages of cars, fuel, labor or materials or any other circumstances or causes beyond the control of our reasonable conduct of business.

**Title and Risk of Loss** - Full risk of loss, including transportation delays and losses, shall pass to you upon delivery of products to the FOB point. However, we retain title, for security purposes only, if all products are not paid in full in cash. In the event that you default in payments hereunder, we, at our option, may repossess all unpaid products and charge you with any deficiency.

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**YOUR EXCLUSIVE AND SOLE REMEDY IN REGARD TO HAVING RECEIVED FAILED PRODUCTS, WHETHER DUE TO OUR NEGLIGENT ACTS OR OMISSIONS, TO NONCONFORMITY, OR OTHERWISE, WITH THESE TERMS AND CONDITIONS, OR TO ANY EXPRESSED OR IMPLIED WARRANTY SHALL BE TO OBTAIN REPLACEMENT AS SPECIFIED ABOVE. WE SHALL NOT IN ANY EVENT BE LIABLE FOR THE COST OF ANY LABOR EXPENDED IN ANY SUCH PRODUCTS, OR FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES DUE TO THE PRODUCT'S NONCONFORMITY WITH THESE TERMS AND CONDITIONS OR TO ANY EXPRESSED OR IMPLIED WARRANTY.**

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**Shortage and Damage Claims** - All claims of shortages and damage must be filed within seven days of receipt of material.


**Radian  
Communication  
Services**

6718 W. Plank Rd  
Peoria, IL 61604  
Telephone + 1 309 697 4400  
Facsimile + 1 309 697 5612  
www.radiancorp.com

June 07, 2006

State of West Virginia  
DHHR, BPH & STECS  
Charleston, WV, 25305-0130

Radian Quote No: Q6-060-0583  
Version No: 12  
Project: 200' SS Tower

Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radian Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 200 ft Self-Support Tower Radian Model SSV **\$38,360.00**

**Design Notes:**

1. Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within +/- 1.5ft (0.5m).
2. Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
3. All welding conforms to AWS.
4. Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.

**Structure Price include(s):**

Tower Structure	Included
Anchor Bolts	Included
Anchor Bolt Templates	Included
Lightning Protection, 5' Lightning Rod	Included
Climbing Facility, Step Bolts	Included
Fall Protect, RAM - Cable c/w trolley	Included
Grounding, ETA	Included
12 Ft Mounting Frames w/(12)Mtg Pipes @ 200' elevation	Included
<b>Total Price US Dollars</b>	<b>\$38,360.00</b>
<i>Estimated Tower Freight</i>	<i>\$1,650.00</i>
<i>Additional Freight for advanced shipment of Embedded Material</i>	<i>\$350.00</i>
<i>(Freight is estimated FOB Peoria unless otherwise noted - Actual will be invoiced at shipment)</i>	
Applicable Federal/State Taxes	Not Included

**Optional Items (Not included in structure total) :**

(1) Waveguide ladder to tower top	\$960.00
Lighting, MJ Dual	\$4,838.00
Ice Protection for Lighting	\$295.00

---

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**WE THANK YOU FOR YOUR BUSINESS!**

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## Antennas, Ancillaries and Transmission Lines

Description	Qty	Elev.(ft)	Azimuth	Mount	TX Lines	Qty	Line Support
1'x4' PANELS	12	197	N/A	Included	LDF7-50A	12	Optional
6' HP DISH	2	180	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	147	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	114	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	80	N/A	Optional	LDF7-50A	9	Optional
4 SF EPA WHIP W/6' SA	2	190	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	155	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	120	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	85	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	50	N/A	Optional	LDF5-50A	2	Optional

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- 9- Materials and services placed on hold for more than 15 days after placement of an order will be subject to a price review upon notification to proceed with the order. This may result in an increase to the quoted prices.
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**Title and Risk of Loss** - Full risk of loss, including transportation delays and losses, shall pass to you upon delivery of products to the FOB point. However, we retain title, for security purposes only, if all products are not paid in full in cash, in the event that you default in payments hereunder, we, at our option, may repossess all unpaid products and charge you with any deficiency.

**Terms** - Terms are net 30 days from invoice date on approved credit.

**Credit Approval** - Shipment, delivery, and performance of work shall at all times be at the approval of your credit. We may at any time decline to make any shipment or delivery, or to perform anywork, except on receipt of payment of security, or upon terms and conditions satisfactory to us.

**Taxes** - When we are required to collect or pay taxes under any existing or future law, the taxes shall be for your account, and you will, upon demand, make prompt payment of the amount thereof to us. Applicable taxes may be in regard to the sale, purchase, delivery, storage, processing, use or consumption of any products covered herein, including taxes based on the receipts from the sale thereof. Taxes are not included in any published or quoted price shown, unless specifically identified as such.

**Warranty** - All products are warranted to be free of defects in material and workmanship. The warranty is effective for two years, commencing on the date of shipment.

**Buyer's Remedies** - If the material furnished to you should fail, whether due to our negligent acts or omissions, to nonconformity, or otherwise, with these terms and conditions, or to any expressed or implied warranty, we shall replace such failed products at the original point of delivery. Instructions will be furnished to you for the disposition of the failed products, and any transportation charges involved in the disposition shall be to our account.

**YOUR EXCLUSIVE AND SOLE REMEDY IN REGARD TO HAVING RECEIVED FAILED PRODUCTS, WHETHER DUE TO OUR NEGLIGENT ACTS OR OMISSIONS, TO NONCONFORMITY, OR OTHERWISE, WITH THESE TERMS AND CONDITIONS, OR TO ANY EXPRESSED OR IMPLIED WARRANTY SHALL BE TO OBTAIN REPLACEMENT AS SPECIFIED ABOVE. WE SHALL NOT IN ANY EVENT BE LIABLE FOR THE COST OF ANY LABOR EXPENDED IN ANY SUCH PRODUCTS, OR FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES DUE TO THE PRODUCT'S NONCONFORMITY WITH THESE TERMS AND CONDITIONS OR TO ANY EXPRESSED OR IMPLIED WARRANTY.**

**Cancellation** - Orders accepted by us are non-cancelable by you unless agreed to in writing by us. If you provide a written request to cancel an entire order, or any portion thereof, and we agree in writing to such request, you will then be responsible for a reasonable fee reflecting the non-recoverable time and material costs, with reasonable profit, expended by us prior to cancellation.

**Packaging for Shipment** - The pricing for our products include packing for standard ground domestic shipments, such as motor freight or package carriers.

When special packaging is required for other means of shipment, such as for air shipment, ocean freight, etc., additional charges will apply and will be added to the order. Pricing for such special packaging will be furnished to you upon request.

**Freight** - Freight prices, if shown, are estimated for the stated mode of transportation and are based on tariffs and rates in effect at the time of the quotation. Freight charges are to your account. Point of delivery of all products is defined as the nearest dock or terminal used or arranged for by the appointed carrier, and that which is nearest to the destination site(s).

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**Customer Specified Shipping and Freight Terms** - We shall comply with the customer-specified shipping instructions and freight terms, provided they are stated in the written purchase order. On verbal purchase orders, we shall comply with the customer-specified shipping instructions and freight terms. However, in the event a confirming purchase order with different shipping instructions or freight terms is received after the order has shipped, the instructions and terms in the verbal purchase order will control. Written and verbal purchase orders that specify the destination, without specifying timing instructions and/or freight terms, will be shipped by a carrier and with freight terms (prepaid, collect, COD, etc.) of our choice.

Under no circumstances shall we be responsible or back-charged for the loss of customer freight advantages due to routing instructions and/or freight terms.

**Shortage and Damage Claims** - All claims of shortages and damage must be filed within seven days of receipt of material.


**Radian  
Communication  
Services**

6718 W. Plank Rd  
Peoria, IL, 61604  
Telephone + 1 309 697 4460  
Facsimile + 1 309 697 5012  
www.radiancorp.com

June 07, 2006

State of West Virginia  
DHHR, BPH & STECS  
Charleston, WV, 25305-0130

Radian Quote No: Q6-060-0583 Version No: 13 Project: 220' SS Tower
--

Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radian Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 220 ft Self-Support Tower Radian Model SSV \$45,825.00

**Design Notes:**

1. Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within +/- 1.5ft (0.5m).
2. Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
3. All welding conforms to AWS.
4. Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.

**Structure Price Include(s):**

Tower Structure	Included
Anchor Bolts	Included
Anchor Bolt Templates	Included
Lightning Protection, 5' Lightning Rod	Included
Climbing Facility, Step Bolts	Included
Fall Protect, RAM - Cable c/w trolley	Included
Grounding, EIA	Included
12 Ft Mounting Frames w/(12) Mtg Pipes @ 220' elevation	Included
<b>Total Price US Dollars</b>	<b>\$45,825.00</b>
<i>Estimated Tower Freight</i>	<i>\$3,250.00</i>
<i>Additional Freight for advanced shipment of Embedded Material</i>	<i>\$500.00</i>
<i>(Freight is estimated FOB Peoria unless otherwise noted - Actual will be invoiced at shipment)</i>	
Applicable Federal/State Taxes	Not Included

**Optional Items (Not included in structure total) :**

Lighting, MI Dual	\$4,838.00
Ice Protection for Lighting	\$295.00
(1) Waveguide ladder to tower top	\$1,056.00

---

**TO PLACE AN ORDER AGAINST THE ABOVE PROPOSAL, PLEASE FAX OR EMAIL YOUR PURCHASE ORDER TO:**

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)  
**WE THANK YOU FOR YOUR BUSINESS!**

---



## Antennas, Ancillaries and Transmission Lines

Description	Qty	Elev.(ft)	Azimuth	Mount	TX Lines	Qty	Line Support
1'x4' PANELS	12	217	N/A	Included	LDF7-50A	12	Optional
6' HP DISH	2	200	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	160	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	120	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	80	N/A	Optional	LDF7-50A	9	Optional
4 SF EPA WHIP W/6' SA	2	210	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	170	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	130	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	90	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	50	N/A	Optional	LDF5-50A	2	Optional

**Quote Specific Terms:**

- 1- This proposal is valid for 30 days from the quotation date. Please refer to Radian's proposal number when submitting a purchase order.
- 2- Terms for materials are Net 30 days after shipment from the point of manufacturing.
- 3- This proposal is subject to the attached Terms and Conditions of Sale.
- 4- Foundation and tower designs charges, if ordered independently, are \$1500. This cost is deductible from the overall price of the structure once the structure is released for production and shipped.
- 5- Quoted prices do not include taxes. Refer to Terms and Conditions of Sale. Taxes will be invoiced unless an exemption certificate is provided with the order.
- 6- Delivery schedules are contingent upon the backlog at the time of order and the availability of materials.
- 7- Certification of Radian's products or foundation designs based on specifications provided to Radian do not include services for serving as a project's prime professional or engineer of record for the purposes of reviewing and coordinating documents submitted for a building permit, including deferred submittals and documents prepared by others. Radian has not verified that the design parameters provided to Radian for this proposal meets the requirements for the intended application or meets the requirements of the appropriate regulatory agencies. Price adjustments may apply for requirements in addition to those stated in this proposal.
- 8- Prices for foundations designs to be based on geotechnical data to be supplied at the time of an order are based on the design of conventional foundations consisting of pier & pad, caissons, mat and deadman anchor blocks. Other types of foundation designs, if required for site-specific conditions, will be quoted upon receipt of the geotechnical data.
- 9- Materials and services placed on hold for more than 15 days after placement of an order will be subject to a price review upon notification to proceed with the order. This may result in an increase to the quoted prices.
- 10- For structures to be shipped by the customer at the point of manufacturing, dunnage and loading charges of \$350 may apply and will be invoiced with the structure.
- 11- Storage charges of \$8.00 a day will be invoiced on a monthly basis for material requested to be withheld from shipment starting 30 days from the initial notification from Radian that the material was available for shipment.
- 12- Freight pricing is subject to change due to extreme freight price fluctuations and will be reviewed and confirmed at the time an order is placed for the quoted materials.
- 13- Additional freight may apply for optional items ordered. Prices for optional items are based on the optional items being ordered with the structure
- 14- Acceptance of an order will be contingent on customer credit approval.
- 15- Design profile provided at time of quotation is preliminary and is subject to change based upon final design.
- 16- This quotation is proprietary, confidential and a trade secret of Radian. This proposal is being provided for the exclusive use of our customer and is not to be disclosed to third parties.
- 17- Unless noted above, Radian general terms and conditions (attached) apply.

## General Terms and Conditions of Sale

**General** - In accordance with the usage of trade, we conclusively presume by the absence of any written objection and by the acceptance of part or all of the material ordered that:

- All proposals, negotiations, and representations regarding a transaction that are made prior to the date of this document, if any, are hereby merged into this document.
- The agreement and language herein shall be construed and enforced in accordance with the laws of the State of Delaware and the federal laws of the United States, applicable therein as of the date of e-mail confirmation of your order.
- A finance charge, at the monthly rate of 2 %, will be assessed on past due invoices where allowed by applicable law.

**Delay** - We shall be excused for any delay in performance caused by acts of God, war, riot, embargoes, acts of civil or military authorities, fire, floods, accidents, quarantine restrictions, mail conditions, strikes, differences with workers, delays in transportation, shortages of cargo, fuel, labor or materials or any other circumstances or causes beyond the control of our reasonable conduct of business.

**Title and Risk of Loss** - Full risk of loss, including transportation delays and losses, shall pass to you upon delivery of products to the POB point. However, we retain title, for security purposes only, if all products are not paid in full in cash. In the event that you default in payments hereunder, we, at our option, may repossess all unpaid products and charge you with any deficiency.

**Terms** - Terms are net 30 days from invoice date on approved credit.

**Credit Approval** - Shipments, deliveries, and performance of work shall at all times be at the approval of your credit. We may at any time decline to make any shipment or delivery, or to perform any work, except on receipt of payment or security, or upon terms and conditions satisfactory to us.

**Taxes** - When we are required to collect or pay taxes under any existing or future law, the taxes shall be for your account, and you will, upon demand, make prompt payment of the amount thereof to us. Applicable taxes may be in regard to the sale, purchase, delivery, storage, processing, use or consumption of any products covered herein, including taxes based on the receipts from the sale thereof. Taxes are not included in any published or quoted price shown, unless specifically identified as such.

**Warranty** - All products are warranted to be free of defects in material and workmanship. The warranty is effective for two years, commencing on the date of shipment.

**Buyer's Remedies** - If the material furnished to you should fail, whether due to our negligent acts or omissions, to nonconformity, or otherwise, with these terms and conditions, or to any expressed or implied warranty, we shall replace such failed products at the original point of delivery. Instructions will be furnished to you for the disposition of the failed products, and any transportation charges involved in the disposition shall be to our account.

**YOUR EXCLUSIVE AND SOLE REMEDY IN REGARD TO HAVING RECEIVED FAILED PRODUCTS, WHETHER DUE TO OUR NEGLIGENT ACTS OR OMISSIONS, TO NONCONFORMITY, OR OTHERWISE, WITH THESE TERMS AND CONDITIONS, OR TO ANY EXPRESSED OR IMPLIED WARRANTY SHALL BE TO OBTAIN REPLACEMENT AS SPECIFIED ABOVE. WE SHALL NOT IN ANY EVENT BE LIABLE FOR THE COST OF ANY LABOR EXPENDED IN ANY SUCH PRODUCTS, OR FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES DUE TO THE PRODUCT'S NONCONFORMITY WITH THESE TERMS AND CONDITIONS OR TO ANY EXPRESSED OR IMPLIED WARRANTY.**

**Cancellation** - Orders accepted by us are non-cancelable by you unless agreed to in writing by us. If you provide a written request to cancel an entire order, or any portion thereof, and we agree in writing to such request, you will then be responsible for a reasonable fee reflecting the non-recoverable time and material costs, with reasonable profit, expended by us prior to cancellation.

**Packaging for Shipment** - The pricing for our products include packing for standard ground domestic shipments, such as motor freight or package carriers.

When special packaging is required for other means of shipment, such as for air shipment, ocean freight, etc., additional charges will apply and will be added to the order. Pricing for such special packaging will be furnished to you upon request.

**Freight** - Freight prices, if shown, are estimated for the stated mode of transportation and are based on tariffs and rates in effect at the time of the quotation. Freight charges are to your account. Point of delivery of all products is defined as the nearest dock or terminal used or arranged for by the appointed carrier, and that which is nearest to the construction site(s).

Handling and further transportation from the defined point of delivery will be your responsibility unless specifically included in the quotation.

**Customer Specified Shipping and Freight Terms** - We shall comply with the customer-specified shipping instructions and freight terms, provided they are listed in the written purchase order. On verbal purchase orders, we shall comply with the customer-specified shipping instructions and freight terms. However, in the event a confirming purchase order with different shipping instructions or freight terms is received after the order has shipped, the instructions and terms in the verbal purchase order will control. Written and verbal purchase orders that specify the destination, without specifying routing instructions and/or freight terms, will be shipped by a carrier and with freight terms (prepaid, collect, COD, etc.) of our choice.

Under no circumstances shall we be responsible or back-charged for the loss of customer freight advantages due to routing instructions and/or freight terms.

**Shortage and Damage Claims** - All claims of shortages and damage must be filed within seven days of receipt of material.


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6718 W. Plank Rd  
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Facsimile + 1 309 697 5612  
www.radiancorp.com

June 07, 2006

State of West Virginia  
DHHR, BPH & STECS  
Charleston, WV, 25305-0130

Radian Quote No: Q6-060-0583 Version No: 14 Project: 240' SS Tower
--

Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radian Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 240 ft Self-Support Tower Radian Model SSV **\$53,110.00**

**Design Notes:**

1. Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within +/- 1.5ft (0.5m).
2. Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
3. All welding conforms to AWS.
4. Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.

**Structure Price Include(s):**

Tower Structure	Included
Anchor Bolts	Included
Anchor Bolt Templates	Included
Lightning Protection, 5' Lightning Rod	Included
Climbing Facility, Step Bolts	Included
Fall Protect, RAM - Cable c/w trolley	Included
Grounding, EIA	Included
12 Ft Mounting Frames w/(12)Mtg Pipes @ 240' elevation	Included
<b>Total Price US Dollars</b>	<b>\$53,110.00</b>
<i>Estimated Tower Freight</i>	<i>\$3,250.00</i>
<i>Additional Freight for advanced shipment of Embedded Material</i>	<i>\$500.00</i>
<i>(Freight is estimated FOB Peoria unless otherwise noted - Actual will be invoiced at shipment)</i>	
Applicable Federal/State Taxes	Not Included

**Optional Items (Not included in structure total) :**

Lighting, MI Dual	\$4,838.00
Ice Protection for Lighting	\$295.00
(1) Waveguide ladder to tower top	\$1,152.00

---

**TO PLACE AN ORDER AGAINST THE ABOVE PROPOSAL, PLEASE FAX OR EMAIL YOUR PURCHASE ORDER TO:**

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

**WE THANK YOU FOR YOUR BUSINESS!**

---

## Antennas, Ancillaries and Transmission Lines

Description	Qty	Elev.(ft)	Azimuth	Mount	TX Lines	Qty	Line Support
1'x4' PANELS	12	237	N/A	Included	LDF7-50A	12	Optional
6' HP DISH	2	220	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	173	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	127	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	80	N/A	Optional	LDF7-50A	9	Optional
4 SF EPA WHIP W/6' SA	2	230	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	185	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	140	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	95	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	50	N/A	Optional	LDF5-50A	2	Optional

**Quote Specific Terms:**

- 1- This proposal is valid for 30 days from the quotation date. Please refer to Radian's proposal number when submitting a purchase order.
- 2- Terms for materials are Net 30 days after shipment from the point of manufacturing.
- 3- This proposal is subject to the attached Terms and Conditions of Sale.
- 4- Foundation and tower designs charges, if ordered independently, are \$1500. This cost is deductible from the overall price of the structure once the structure is released for production and shipped.
- 5- Quoted prices do not include taxes. Refer to Terms and Conditions of Sale. Taxes will be invoiced unless an exemption certificate is provided with the order.
- 6- Delivery schedules are contingent upon the backlog at the time of order and the availability of materials.
- 7- Certification of Radian's products or foundation designs based on specifications provided to Radian do not include services for serving as a project's prime professional or engineer of record for the purposes of reviewing and coordinating documents submitted for a building permit, including deferred submittals and documents prepared by others. Radian has not verified that the design parameters provided to Radian for this proposal meets the requirements for the intended application or meets the requirements of the appropriate regulatory agencies. Price adjustments may apply for requirements in addition to those stated in this proposal.
- 8- Prices for foundations designs to be based on geotechnical data to be supplied at the time of an order are based on the design of conventional foundations consisting of pier & pad, caissons, mat and deadman anchor blocks. Other types of foundation designs, if required for site-specific conditions, will be quoted upon receipt of the geotechnical data.
- 9- Materials and services placed on hold for more than 15 days after placement of an order will be subject to a price review upon notification to proceed with the order. This may result in an increase to the quoted prices.
- 10- For structures to be shipped by the customer at the point of manufacturing, dunnage and loading charges of \$350 may apply and will be invoiced with the structure.
- 11- Storage charges of \$8.00 a day will be invoiced on a monthly basis for material requested to be withheld from shipment starting 30 days from the initial notification from Radian that the material was available for shipment.
- 12- Freight pricing is subject to change due to extreme freight price fluctuations and will be reviewed and confirmed at the time an order is placed for the quoted materials.
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- 14- Acceptance of an order will be contingent on customer credit approval.
- 15- Design profile provided at time of quotation is preliminary and is subject to change based upon final design.
- 16- This quotation is proprietary, confidential and a trade secret of Radian. This proposal is being provided for the exclusive use of our customer and is not to be disclosed to third parties.
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- All proposals, negotiations, and representations regarding a transaction that are made prior to the date of this document, if any, are hereby merged into this document.

- The agreement and language herein shall be construed and enforced in accordance with the laws of the State of Delaware and the federal laws of the United States, applicable therein as of the date of e-mail confirmation of your order.

- A finance charge, at the monthly rate of 2 %, will be assessed on past due invoices where allowed by applicable law.

**Delay** - We shall be excused for any delay in performance caused by acts of God, war, riot, embargoes, acts of civil or military authorities, fire, floods, accidents, quarantine restrictions, mild conditions, strikes, differences with workers, delays in transportation, shortages of cars, fuel, labor or materials or any other circumstances or causes beyond the control of our reasonable conduct of business.

**Title and Risk of Loss** - Full risk of loss, including transportation delays and losses, shall pass to you upon delivery of products to the FOB point. However, we retain title, for security purposes only, if all products are not paid in full in cash. In the event that you default in payments hereunder, we, at our option, may repossess all unpaid products and charge you with any deficiency.

**Terms** - Terms are net 30 days from invoice date on approved credit.

**Credit Approval** - Shipment, deliveries, and performance of work shall at all times be at the approval of your credit. We may at any time decline to make any shipment or delivery, or to perform any work, except on receipt of payment or security, or upon terms and conditions satisfactory to us.

**Taxes** - When we are required to collect or pay taxes under any existing or future law, the taxes shall be for your account, and you will, upon demand, make prompt payment of the amount thereof to us. Applicable taxes may be in regard to the sale, purchase, delivery, storage, processing, use or consumption of any products covered herein, including taxes based on the receipts from the sale thereof. Taxes are not included in any published or quoted price shown, unless specifically identified as such.

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**Buyer's Remedies** - If the material furnished to you should fail, whether due to our negligent acts or omissions, to nonconformity, or otherwise, with these terms and conditions, or to any expressed or implied warranty, we shall replace such failed products at the original point of delivery. Instructions will be furnished to you for the disposition of the failed products, and any transportation charges involved in the disposition shall be our account.

**YOUR EXCLUSIVE AND SOLE REMEDY IN REGARD TO HAVING RECEIVED FAILED PRODUCTS, WHETHER DUE TO OUR NEGLIGENT ACTS OR OMISSIONS, TO NONCONFORMITY, OR OTHERWISE, WITH THESE TERMS AND CONDITIONS, OR TO ANY EXPRESSED OR IMPLIED WARRANTY SHALL BE TO OBTAIN REPLACEMENT AS SPECIFIED ABOVE. WE SHALL NOT IN ANY EVENT BE LIABLE FOR THE COST OF ANY LABOR EXPENDED IN ANY SUCH PRODUCTS, OR FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES DUE TO THE PRODUCT'S NONCONFORMITY WITH THESE TERMS AND CONDITIONS OR TO ANY EXPRESSED OR IMPLIED WARRANTY.**

**Cancellation** - Orders accepted by us are non-cancelable by you unless agreed to in writing by us. If you provide a written request to cancel an entire order, or any portion thereof, and we agree in writing to such request, you will then be responsible for a reasonable fee reflecting the non-recoverable time and material costs, with reasonable profit, expended by us prior to cancellation.

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Handling and further transportation from the defined point of delivery will be your responsibility unless specifically included in the quotation.

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Under no circumstances shall we be responsible or back-charged for the loss of customer freight advantages due to routing instructions and/or freight terms.

**Shortage and Damage Claims** - All claims of shortages and damage must be filed within seven days of receipt of material.




**Radian  
Communication  
Services**

6718 W. Plank Rd  
Peoria, IL, 61604  
Telephone + 1 309 697 4400  
Facsimile + 1 309 697 6612  
www.radiancorp.com

June 07, 2006

State of West Virginia  
DHHR, BPH & STECS  
Charleston, WV, 25305-0130

Radian Quote No: Q6-060-0583  
Version No: 15  
Project: 260' SS Tower

Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radian Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 260 ft Self-Support Tower Radian Model SSV \$61,500.00

**Design Notes:**

1. Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within +/- 1.5ft (0.5m).
2. Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
3. All welding conforms to AWS.
4. Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.

**Structure Price Include(s):**

Tower Structure	Included
Anchor Bolts	Included
Anchor Bolt Templates	Included
Lightning Protection, 5' Lightning Rod	Included
Climbing Facility, Step Bolts	Included
Fall Protect, RAM - Cable c/w trolley	Included
Grounding, EIA	Included
12 Ft Mounting Frames w/(12)Mtg Pipes @ 240' elevation	Included
<b>Total Price US Dollars</b>	<b>\$61,500.00</b>
<i>Estimated Tower Freight</i>	<i>\$3,250.00</i>
<i>Additional Freight for advanced shipment of Embedded Material</i>	<i>\$500.00</i>
(Freight is estimated FOB Peoria unless otherwise noted - Actual will be invoiced at shipment)	
Applicable Federal/State Taxes	Not Included

**Optional Items (Not included in structure total) :**

(1) Waveguide ladder to tower top	\$1,248.00
Lighting, MI Dual	\$4,838.00
Ice Protection for Lighting	\$295.00

---

***TO PLACE AN ORDER AGAINST THE ABOVE PROPOSAL, PLEASE FAX OR EMAIL YOUR PURCHASE ORDER TO:***

Radian Contact: Ken Cordrey

Ph: 410-778-4441

Fx: 410-778-3096

Email: [Ken.Cordrey@radlancorp.com](mailto:Ken.Cordrey@radlancorp.com)

***WE THANK YOU FOR YOUR BUSINESS!***

---

## Antennas, Ancillaries and Transmission Lines

Description	Qty	Elev.(ft)	Azimuth	Mount	TX Lines	Qty	Line Support
1'x4' PANELS	12	257	N/A	Included	LDF7-50A	12	Optional
6' HP DISH	2	240	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	187	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	134	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	80	N/A	Optional	LDF7-50A	9	Optional
4 SF EPA WHIP W/6' SA	2	250	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	200	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	150	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	100	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	50	N/A	Optional	LDF5-50A	2	Optional

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- The agreement and language herein shall be construed and enforced in accordance with the laws of the State of Delaware and the federal laws of the United States, applicable therein as of the date of e-mail confirmation of your order.
- A finance charge, at the monthly rate of 2 %, will be assessed on past due invoices where allowed by applicable law.

**Delay** - We shall be excused for any delay in performance caused by acts of God, war, riot, embargoes, acts of civil or military authorities, fires, floods, accidents, quarantine restrictions, mail conditions, strikes, differences with workers, delays in transportation, shortages of cars, fuel, labor or materials or any other circumstances or causes beyond the control of our reasonable conduct of business.

**Title and Risk of Loss** - Full risk of loss, including transportation delays and losses, shall pass to you upon delivery of products to the FOB point. However, we retain title, for security purposes only, if all products are not paid in full in cash. In the event that you default in payments hereunder, we, at our option, may repossess all unpaid products and charge you with any deficiency.

**Terms** - Terms are net 30 days from invoice date on approved credit.

**Credit Approval** - Shipment, deliveries, and performance of work shall at all times be at the approval of your credit. We may at any time decline to make any shipment or delivery, or to perform any work, except on receipt of payment or security, or upon terms and conditions satisfactory to us.

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**Warranty** - All products are warranted to be free of defects in material and workmanship. The warranty is effective for two years, commencing on the date of shipment.

**Buyer's Remedies** - If the material furnished to you should fail, whether due to our negligent acts or omissions, to nonconformity, or otherwise, with these terms and conditions, or to any expressed or implied warranty, we shall replace such failed products at the original point of delivery. Instructions will be furnished to you for the disposition of the failed products, and any transportation charges involved in the disposition shall be to our account.

**YOUR EXCLUSIVE AND SOLE REMEDY IN REGARD TO HAVING RECEIVED FAILED PRODUCTS, WHETHER DUE TO OUR NEGLIGENT ACTS OR OMISSIONS, TO NONCONFORMITY, OR OTHERWISE, WITH THESE TERMS AND CONDITIONS, OR TO ANY EXPRESSED OR IMPLIED WARRANTY SHALL BE TO OBTAIN REPLACEMENT AS SPECIFIED ABOVE. WE SHALL, NOT IN ANY EVENT BE LIABLE FOR THE COST OF ANY LABOR EXPENDED IN ANY SUCH PRODUCTS, OR FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES DUE TO THE PRODUCT'S NONCONFORMITY WITH THESE TERMS AND CONDITIONS OR TO ANY EXPRESSED OR IMPLIED WARRANTY.**

**Cancellation** - Orders accepted by us are non-cancelable by you unless agreed to in writing by us. If you provide a written request to cancel an entire order, or any portion thereof, and we agree in writing to such request, you will then be responsible for a reasonable fee reflecting the non-recoverable time and material costs, with reasonable profit, expended by us prior to cancellation.

**Packaging for Shipment** - The pricing for our products include packing for standard ground domestic shipments, such as motor freight or package carriers.

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Under no circumstances shall we be responsible or back-charged for the loss of customer freight advantages due to routing instructions and/or freight terms.

**Shortage and Damage Claims** - All claims of shortages and damage must be filed within seven days of receipt of material.



**Radian  
Communication  
Services**

8718 W. Plank Rd  
Peoria, IL, 61604  
Telephone + 1 309 697 4400  
Facsimile + 1 309 697 5812  
www.radiancorp.com

June 07, 2006

State of West Virginia  
DHHR, BPH & STECS  
Charleston, WV, 25305-0130

Radlan Quote No:Q6-060-0583  
Version No:16  
Project: 280' SS Tower

Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radlan Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radlan Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 280 ft Self-Support Tower Radlan Model SSV \$71,710.00

**Design Notes:**

1. Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within +/- 1.5ft (0.5m).
2. Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
3. All welding conforms to AWS.

**Structure Price Include(s):**

Tower Structure	Included
Anchor Bolts	Included
Anchor Bolt Templates	Included
Lightning Protection, 5' Lightning Rod	Included
Climbing Facility, Step Bolts	Included
Fall Protect, RAM - Cable c/w trolley	Included
Grounding, EIA	Included
12 Ft Mounting Frames w/(12)Mtg Pipes @ 277' elevation	Included
<b>Total Price US Dollars</b>	<b>\$71,710.00</b>
<i>Estimated Tower Freight</i>	<i>\$3,250.00</i>
<i>Additional Freight for advanced shipment of Embedded Material</i>	<i>\$500.00</i>
<i>(Freight is estimated FOB Peoria unless otherwise noted - Actual will be invoiced at shipment)</i>	
Applicable Federal/State Taxes	Not included

**Optional Items (Not included in structure total) :**

(1) Waveguide ladder to tower top \$1,344.00

Lighting, MI Dual	\$4,838.00
Ice Protection for Lighting	\$295.00

---

**TO PLACE AN ORDER AGAINST THE ABOVE PROPOSAL, PLEASE FAX OR EMAIL YOUR PURCHASE ORDER TO:**

Radlan Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radlancorp.com](mailto:Ken.Cordrey@radlancorp.com)  
**WE THANK YOU FOR YOUR BUSINESS!**

---

## Antennas, Ancillaries and Transmission Lines

Description	Qty	Elev.(ft)	Azimuth	Mount	TX Lines	Qty	Line Support
1'x4' PANELS	12	277	N/A	Included	LDF7-50A	12	Optional
6' HP DISH	2	260	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	200	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	140	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	80	N/A	Optional	LDF7-50A	9	Optional
4 SF EPA WHIP W/6' SA	2	270	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	215	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	160	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	105	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	50	N/A	Optional	LDF5-50A	2	Optional



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- A finance charge, at the monthly rate of 2 %, will be assessed on past due invoices where allowed by applicable law.

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Services**

6718 W. Plank Rd  
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Telephone + 1 309 697 4400  
Facsimile + 1 309 697 5612  
www.radiancorp.com

June 07, 2006

State of West Virginia  
DHHR, BPH & STECS  
Charleston, WV, 25305-0130

<p>Radian Quote No: Q6-060-0583 Version No: 17 Project: 300' SS Tower</p>
---

Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radian Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 300 ft Self-Support Tower Radian Model SSV **\$81,740.00**

**Design Notes:**

1. Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within +/- 1.5ft (0.5m).
2. Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
3. All welding conforms to AWS.
4. Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.

**Structure Price Include(s):**

Tower Structure	Included
Anchor Bolts	Included
Anchor Bolt Templates	Included
Lightning Protection, 5' Lightning Rod	Included
Climbing Facility, Step Bolts	Included
Fall Protect, RAM - Cable c/w trolley	Included
Grounding, EIA	Included
12 Ft Mounting Frames w/(12)Mtg Pipes @ 297' elevation	Included
<b>Total Price US Dollars</b>	<b>\$81,740.00</b>
<i>Estimated Tower Freight</i>	<i>\$3,250.00</i>
<i>Additional Freight for advanced shipment of Embedded Material</i>	<i>\$500.00</i>
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Applicable Federal/State Taxes	Not Included

**Optional Items (Not included in structure total) :**

(1) Waveguide ladder to tower top	\$1,440.00
Lighting, MI Dual	\$4,838.00
Ice Protection for Lighting	\$295.00

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**Title and Risk of Loss** - Full risk of loss, including transportation delays and losses, shall pass to you upon delivery of products to the FOB point. However, we retain title, for security purposes only, if all products are not paid in full in cash. In the event that you default in payments hereunder, we, at our option, may repossess all unpaid products and charge you with any deficiency.

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**Freight** - Freight prices, if shown, are estimated for the stated mode of transportation and are based on tariffs and rates in effect at the time of the quotation. Freight charges are to your account. Point of delivery of all products is defined as the nearest dock or terminal used or arranged for by the appointed carrier, and that which is nearest to the construction site(s).

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**Shortage and Damage Claims** - All claims of shortages and damage must be filed within seven days of receipt of material.



**Radian  
Communication  
Services**

6718 W. Plank Rd  
Peoria, IL, 61604  
Telephone + 1 309 697 4400  
Facsimile + 1 309 697 5812  
www.radiancorp.com

June 07, 2006  
State of West Virginia  
DHHR, BPH & STECS  
Charleston, WV, 25305-0130

Radian Quote No: Q6-060-0583  
Version No: 18  
Project: 320' SS Tower

Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radian Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 320 ft Self-Support Tower Radian Model SSV **\$92,190.00**

**Design Notes:**

1. Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within +/- 1.5ft (0.5m).
2. Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
3. All welding conforms to AWS.
4. Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.

**Structure Price Include(s):**

Tower Structure	Included
Anchor Bolts	Included
Anchor Bolt Templates	Included
Lightning Protection, 5' Lightning Rod	Included
Climbing Facility, Step Bolts	Included
Fall Protect, RAM - Cable c/w trolley	Included
Grounding, EIA	Included
12 Ft Mounting Frames w/(12) Mtg Pipes @ 317' elevation	Included
<b>Total Price US Dollars</b>	<b>\$92,190.00</b>
<i>Estimated Tower Freight</i>	<i>\$5,000.00</i>
<i>Additional Freight for advanced shipment of Embedded Material</i>	<i>\$650.00</i>
<i>(Freight is estimated FOB Peoria unless otherwise noted - Actual will be invoiced at shipment)</i>	
Applicable Federal/State Taxes	Not Included



**Optional Items (Not included in structure total) :**

(1.) Waveguide ladder to tower top	\$1,536.00
Lighting, MI Dual	\$4,838.00
Ice Protection for Lighting	\$295.00

---

**TO PLACE AN ORDER AGAINST THE ABOVE PROPOSAL, PLEASE FAX OR EMAIL YOUR PURCHASE ORDER TO:**

Radlan Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radlancorp.com](mailto:Ken.Cordrey@radlancorp.com)  
**WE THANK YOU FOR YOUR BUSINESS!**

---

## Antennas, Ancillaries and Transmission Lines

Description	Qty	Elev.(ft)	Azimuth	Mount	TX Lines	Qty	Line Support
1'x4' PANELS	12	317	N/A	Included	LDF7-50A	12	Optional
6' HP DISH	2	300	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	227	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	154	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	80	N/A	Optional	LDF7-50A	9	Optional
4 SF EPA WHIP W/6' SA	2	310	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	245	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	180	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	115	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	50	N/A	Optional	LDF5-50A	2	Optional

**Quote Specific Terms:**

- 1- This proposal is valid for 30 days from the quotation date. Please refer to Radian's proposal number when submitting a purchase order.
- 2- Terms for materials are Net 30 days after shipment from the point of manufacturing.
- 3- This proposal is subject to the attached Terms and Conditions of Sale.
- 4- Foundation and tower designs charges, if ordered independently, are \$1500. This cost is deductible from the overall price of the structure once the structure is released for production and shipped.
- 5- Quoted prices do not include taxes. Refer to Terms and Conditions of Sale. Taxes will be invoiced unless an exemption certificate is provided with the order.
- 6- Delivery schedules are contingent upon the backlog at the time of order and the availability of materials.
- 7- Certification of Radian's products or foundation designs based on specifications provided to Radian do not include services for serving as a project's prime professional or engineer of record for the purposes of reviewing and coordinating documents submitted for a building permit, including deferred submittals and documents prepared by others. Radian has not verified that the design parameters provided to Radian for this proposal meets the requirements for the intended application or meets the requirements of the appropriate regulatory agencies. Price adjustments may apply for requirements in addition to those stated in this proposal.
- 8- Prices for foundations designs to be based on geotechnical data to be supplied at the time of an order are based on the design of conventional foundations consisting of pier & pad, caissons, mat and deadman anchor blocks. Other types of foundation designs, if required for site-specific conditions, will be quoted upon receipt of the geotechnical data.
- 9- Materials and services placed on hold for more than 15 days after placement of an order will be subject to a price review upon notification to proceed with the order. This may result in an increase to the quoted prices.
- 10- For structures to be shipped by the customer at the point of manufacturing, dunnage and loading charges of \$350 may apply and will be invoiced with the structure.
- 11- Storage charges of \$8.00 a day will be invoiced on a monthly basis for material requested to be withheld from shipment starting 30 days from the initial notification from Radian that the material was available for shipment.
- 12- Freight pricing is subject to change due to extreme freight price fluctuations and will be reviewed and confirmed at the time an order is placed for the quoted materials.
- 13- Additional freight may apply for optional items ordered. Prices for optional items are based on the optional items being ordered with the structure
- 14- Acceptance of an order will be contingent on customer credit approval.
- 15- Design profile provided at time of quotation is preliminary and is subject to change based upon final design.
- 16- This quotation is proprietary, confidential and a trade secret of Radian. This proposal is being provided for the exclusive use of our customer and is not to be disclosed to third parties.
- 17- Unless noted above, Radian general terms and conditions (attached) apply.

## General Terms and Conditions of Sale

**General** - In accordance with the usage of trade, we conclusively presume by the absence of any written objection and by the acceptance of part or all of the material enclosed that:

- All proposals, negotiations, and representations regarding a transaction that are made prior to the date of this document, if any, are hereby merged into this document.

- The agreement and language herein shall be construed and enforced in accordance with the laws of the State of Delaware and the federal laws of the United States, applicable thereto as of the date of e-mail confirmation of your order.

- A finance charge, at the monthly rate of 2 %, will be assessed on past due invoices where allowed by applicable law.

**Delay** - We shall be excused for any delay in performance caused by acts of God, war, riot, embargoes, acts of civil or military authorities, fires, floods, accidents, quarantine restrictions, mail conditions, strikes, differences with workers, delays in transportation, shortages of cars, fuel, labor or materials or any other circumstances or causes beyond the control of our reasonable conduct of business.

**Title and Risk of Loss** - Full risk of loss, including transportation delays and losses, shall pass to you upon delivery of products to the FOB point. However, we retain title, for security purposes only, if all products are not paid in full in cash. In the event that you default in payments hereunder, we, at our option, may repossess all unpaid products and charge you with any deficiency.

**Terms** - Terms are net 30 days from invoice date on approved credit.

**Credit Approval** - Shipment, deliveries, and performance of work shall at all times be at the approval of your credit. We may at any time decline to make any shipment or delivery, or to perform anywork, except on receipt of payment or security, or upon terms and conditions satisfactory to us.

**Taxes** - When we are required to collect or pay taxes under any existing or future law, the taxes shall be for your account, and you will, upon demand, make prompt payment of the amount thereof to us. Applicable taxes may be in regard to the sale, purchase, delivery, storage, processing, use or consumption of any products covered herein, including taxes based on the receipts from the sale thereof. Taxes are not included in any published or quoted price shown, unless specifically identified as such.

**Warranty** - All products are warranted to be free of defects in material and workmanship. The warranty is effective for two years, commencing on the date of shipment.

**Buyer's Remedies** - If the material furnished to you should fail, whether due to our negligent acts or omissions, to nonconformity, or otherwise, with these terms and conditions, or to any expressed or implied warranty, we shall replace such failed products at the original point of delivery. Instructions will be furnished to you for the disposition of the failed products, and any transportation charges involved in the disposition shall be to our account.

**YOUR EXCLUSIVE AND SOLE REMEDY IN REGARD TO HAVING RECEIVED FAILED PRODUCTS, WHETHER DUE TO OUR NEGLIGENCE, ACTS OR OMISSIONS, TO NONCONFORMITY, OR OTHERWISE, WITH THESE TERMS AND CONDITIONS, OR TO ANY EXPRESSED OR IMPLIED WARRANTY SHALL BE TO OBTAIN REPLACEMENT AS SPECIFIED ABOVE. WE SHALL NOT IN ANY EVENT BE LIABLE FOR THE COST OF ANY LABOR EXPENDED IN ANY SUCH PRODUCTS, OR FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES DUE TO THE PRODUCT'S NONCONFORMITY WITH THESE TERMS AND CONDITIONS OR TO ANY EXPRESSED OR IMPLIED WARRANTY.**

**Cancellation** - Orders accepted by us are non-cancelable by you unless agreed to in writing by us. If you provide a written request to cancel an entire order, or any portion thereof, and we agree in writing to such request, you will then be responsible for a reasonable fee reflecting the non-recoverable time and material costs, with reasonable profit, expended by us prior to cancellation.

**Packaging for Shipment** - The pricing for our products include packing for standard ground domestic shipments, such as motor freight or package carrier.

When special packaging is required for other means of shipment, such as for air shipment, ocean freight, etc., additional charges will apply and will be added to the order. Pricing for such special packaging will be furnished to you upon request.

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**Shortage and Damage Claims** - All claims of shortages and damage must be filed within seven days of receipt of material.



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www.radiancorp.com

June 07, 2006

State of West Virginia  
DHHR, BPH & STECS  
Charleston, WV, 25305-0130

Radian Quote No: Q6-060-0583  
Version No: 19  
Project: 340' SS Tower

Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radian Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 340 ft Self-Support Tower Radian Model SSV **\$102,145.00**

**Design Notes:**

1. Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within +/- 1.5ft (0.5m).
2. Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
3. All welding conforms to AWS.
4. Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.

**Structure Price Include(s):**

Tower Structure	Included
Anchor Bolts	Included
Anchor Bolt Templates	Included
Lightning Protection, 5' Lightning Rod	Included
Climbing Facility, Step Bolts	Included
Fall Protect, RAM - Cable c/w trolley	Included
Grounding, EIA	Included
12 Ft Mounting Frames w/(1.2)Mtg Pipes @ 337' elevation	Included
<b>Total Price US Dollars</b>	<b>\$102,145.00</b>
<i>Estimated Tower Freight</i>	<i>\$5,000.00</i>
<i>Additional Freight for advanced shipment of Embedded Material</i>	<i>\$650.00</i>
<i>(Freight is estimated FOB Peoria unless otherwise noted - Actual will be invoiced at shipment)</i>	
Applicable Federal/State Taxes	Not Included

**Optional Items (Not included in structure total) :**

(1) Waveguide ladder to tower top	\$1,632.00
Lighting, MI Dual	\$4,838.00
Ice Protection for Lighting	\$295.00

---

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Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)  
**WE THANK YOU FOR YOUR BUSINESS!**

---

## Antennas, Ancillaries and Transmission Lines

Description	Qty	Elev.(ft)	Azimuth	Mount	TX Lines	Qty	Line Support
1'x4' PANELS	12	337	N/A	Included	LDF7-50A	12	Optional
6' HP DISH	2	320	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	240	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	160	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	80	N/A	Optional	LDF7-50A	9	Optional
4 SF EPA WHIP W/6' SA	2	330	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	260	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	190	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	120	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	50	N/A	Optional	LDF5-50A	2	Optional

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- 6- Delivery schedules are contingent upon the backlog at the time of order and the availability of materials.
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• The agreement and language herein shall be construed and enforced in accordance with the laws of the State of Delaware and the federal laws of the United States, applicable therein as of the date of e-mail confirmation of your order.

• A finance charge, at the monthly rate of 2 %, will be assessed on past due invoices where allowed by applicable law.

**Delay** - We shall be excused for any delay in performance caused by acts of God, war, riot, embargoes, acts of civil or military authorities, fires, floods, accidents, quarantine restrictions, road conditions, strikes, differences with workers, delays in transportation, shortages of equipment, fuel, labor or materials or any other circumstances or causes beyond the control of our reasonable conduct of business.

**Title and Risk of Loss** - Full risk of loss, including transportation delays and losses, shall pass to you upon delivery of products to the FOB point. However, we retain title, for security purposes only, if all products are not paid in full in cash. In the event that you default in payments hereunder, we, at our option, may repossess all unpaid products and charge you with any deficiency.

**Terms** - Terms are net 30 days from invoice date on approved credit.

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**Taxes** - When we are required to collect or pay taxes under any existing or future law, the taxes shall be for your account, and you will, upon demand, make prompt payment of the amount thereof to us. Applicable taxes may be in regard to the sale, purchase, delivery, storage, processing, use or consumption of any products covered herein, including taxes based on the receipts from the sale thereof. Taxes are not included in any published or quoted price shown, unless specifically identified as such.

**Warranty** - All products are warranted to be free of defects in material and workmanship. The warranty is effective for two years, commencing on the date of shipment.

**Buyer's Remedies** - If the material furnished to you should fail, whether due to our negligent acts or omissions, to nonconformity, or otherwise, with these terms and conditions, or to any expressed or implied warranty, we shall replace such failed products at the original point of delivery. Instructions will be furnished to you for the disposition of the failed products, and any transportation charges involved in the disposition shall be to our account.

**YOUR EXCLUSIVE AND SOLE REMEDY IN REGARD TO HAVING RECEIVED FAILED PRODUCTS, WHETHER DUE TO OUR NEGLIGENT ACTS OR OMISSIONS, TO NONCONFORMITY, OR OTHERWISE, WITH THESE TERMS AND CONDITIONS, OR TO ANY EXPRESSED OR IMPLIED WARRANTY SHALL BE TO OBTAIN REPLACEMENT AS SPECIFIED ABOVE. WE SHALL NOT IN ANY EVENT BE LIABLE FOR THE COST OF ANY LABOR EXPENDED IN ANY SUCH PRODUCTS, OR FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES DUE TO THE PRODUCT'S NONCONFORMITY WITH THESE TERMS AND CONDITIONS OR TO ANY EXPRESSED OR IMPLIED WARRANTY.**

**Cancellation** - Orders accepted by us are non-cancelable by you unless agreed to in writing by us. If you provide a written request to cancel an entire order, or any portion thereof, and we agree in writing to such request, you will then be responsible for a reasonable fee reflecting the non-recoverable time and material costs, with reasonable profit, expended by us prior to cancellation.

**Packaging for Shipment** - The pricing for our products include packing for standard ground domestic shipments, such as motor freight or package carriers.

When special packaging is required for other means of shipment, such as for air shipment, ocean freight, etc., additional charges will apply and will be added to the order. Pricing for such special packaging will be furnished to you upon request.

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Under no circumstances shall we be responsible or back-charged for the loss of customer freight advantages due to routing instructions and/or freight terms.

**Shortage and Damage Claims** - All claims of shortages and damage must be filed within seven days of receipt of material.



**Radian  
Communication  
Services**

6718 W. Plank Rd  
Peoria, IL, 61604  
Telephone + 1 309 697 4400  
Facsimile + 1 309 697 6612  
www.radiancorp.com

June 07, 2006

State of West Virginia  
DHHR, BPH & STECS  
Charleston, WV, 25305-0130

<p>Radian Quote No: Q6-060-0583 Version No: 21 Project: 160' Guyed Tower</p>
--

Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radian Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 160 ft Guyed Mast Tower Radian Model NO. 80 **\$24,241.00**

**Design Notes:**

1. Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within  $\pm 1.5$  ft (0.5m).
2. Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
3. All welding conforms to AWS.
4. Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels, and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.

**Structure Price Include(s):**

Tower Structure	Included
Anchor Steel	Included
Lightning Protection	Included
Climbing Facility, Step Bolts	Included
Fall Protect, RAM - Cable c/w trolley	Included
Grounding, EIA	Included
Tapered Base	Included
12' Mounting Frame w/ (12) Mounting Pipes	Included
<b>Total Price US Dollars</b>	<b>\$24,241.00</b>
<i>Estimated Tower Freight</i>	<i>\$1,650.00</i>
<i>Additional Freight for advanced shipment of Embedded Material</i>	<i>\$550.00</i>
(Freight is estimated FOB Peoria unless otherwise noted - Actual will be invoiced at shipment)	
Applicable Federal/State Taxes	Not included

**Optional Items (Not included in structure total) :**

Lighting, MI Dual	\$4,756.00
Ice Protection for Lighting	\$290.00
(1) Face Waveguide Brace Brackets	\$325.00

---

**TO PLACE AN ORDER AGAINST THE ABOVE PROPOSAL, PLEASE FAX OR EMAIL YOUR PURCHASE ORDER TO:**

Radian Contact: Ken Cordrey

Ph: 410-778-4441

Fx: 410-778-3096

Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

**WE THANK YOU FOR YOUR BUSINESS!**

---

## Antennas, Ancillaries and Transmission Lines

Description	Qty	Elev.(ft)	Azimuth	Mount	TX Lines	Qty	Line Support
1'x4' PANELS	12	157	N/A	Included	LDF7-50A	12	Optional
6' HP DISH	2	140	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	120	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	100	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	80	N/A	Optional	LDF7-50A	9	Optional
4 SF EPA WHIP W/6' SA	2	150	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	125	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	100	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	75	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	50	N/A	Optional	LDF5-50A	2	Optional

**Quote Specific Terms:**

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- 2- Terms for materials are Net 30 days after shipment from the point of manufacturing.
- 3- This proposal is subject to the attached Terms and Conditions of Sale.
- 4- Foundation and tower designs charges, if ordered independently, are \$1500. This cost is deductible from the overall price of the structure once the structure is released for production and shipped.
- 5- Quoted prices do not include taxes. Refer to Terms and Conditions of Sale. Taxes will be invoiced unless an exemption certificate is provided with the order.
- 6- Delivery schedules are contingent upon the backlog at the time of order and the availability of materials.
- 7- Certification of Radian's products or foundation designs based on specifications provided to Radian do not include services for serving as a project's prime professional or engineer of record for the purposes of reviewing and coordinating documents submitted for a building permit, including deferred submittals and documents prepared by others. Radian has not verified that the design parameters provided to Radian for this proposal meets the requirements for the intended application or meets the requirements of the appropriate regulatory agencies. Price adjustments may apply for requirements in addition to those stated in this proposal.
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- All proposals, negotiations, and representations regarding a transaction that are made prior to the date of this document, if any, are hereby merged into this document.

- The agreement and language herein shall be construed and enforced in accordance with the laws of the State of Delaware and the federal laws of the United States, applicable thereto as of the date of e-mail confirmation of your order.

- A finance charge, at the monthly rate of 2 %, will be assessed on past due invoices where allowed by applicable law.

**Delay** - We shall be excused for any delay in performance caused by acts of God, war, riot, embargoes, acts of civil or military authorities, fires, floods, accidents, quarantine restrictions, mail conditions, strikes, differences with workers, delays in transportation, shortages of cars, fuel, labor or materials or any other circumstances or causes beyond the control of our reasonable conduct of business.

**Title and Risk of Loss** - Full risk of loss, including transportation delays and losses, shall pass to you upon delivery of products to the FOB point. However, we retain title, for security purposes only, if all products are not paid in full in cash. In the event that you default in payments hereunder, we, at our option, may repossess all unpaid products and charge you with any deficiency.

**Terms** - Terms are net 30 days from invoice date on approved credit.

**Credit Approval** - Shipment, deliveries, and performance of work shall at all times be at the approval of your credit. We may at any time decline to make any shipment or delivery, or to perform anywork, except on receipt of payment or security, or upon terms and conditions satisfactory to us.

**Taxes** - When we are required to collect or pay taxes under any existing or future law, the taxes shall be for your account, and you will, upon demand, make prompt payment of the amount thereof to us. Applicable taxes may be in regard to the sale, purchase, delivery, storage, processing, use or consumption of any products covered herein, including taxes based on the receipts from the sale thereof. Taxes are not included in any published or quoted price shown, unless specifically identified as such.

**Warranty** - All products are warranted to be free of defects in material and workmanship. The warranty is effective for two years, commencing on the date of shipment.

**Buyer's Remedies** - If the material furnished to you should fail, whether due to our negligent acts or omissions, to nonconformity, or otherwise, with these terms and conditions, or to any expressed or implied warranty, we shall replace such failed products at the original point of delivery. Instructions will be furnished to you for the disposition of the failed products, and any transportation charges involved in the disposition shall be to our account.

**YOUR EXCLUSIVE AND SOLE REMEDY IN REGARD TO HAVING RECEIVED FAILED PRODUCTS, WHETHER DUE TO OUR NEGLIGENT ACTS OR OMISSIONS, TO NONCONFORMITY, OR OTHERWISE, WITH THESE TERMS AND CONDITIONS, OR TO ANY EXPRESSED OR IMPLIED WARRANTY SHALL BE TO OBTAIN REPLACEMENT AS SPECIFIED ABOVE. WE SHALL NOT IN ANY EVENT BE LIABLE FOR THE COST OF ANY LABOR EXPENDED IN ANY SUCH PRODUCTS, OR FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES DUE TO THE PRODUCT'S NONCONFORMITY WITH THESE TERMS AND CONDITIONS OR TO ANY EXPRESSED OR IMPLIED WARRANTY.**

**Cancellation** - Orders accepted by us are non-cancelable by you unless agreed to in writing by us. If you provide a written request to cancel an entire order, or any portion thereof, and we agree in writing to such request, you will then be responsible for a reasonable fee reflecting the non-recoverable time and material costs, with reasonable profit, expended by us prior to cancellation.

**Packaging for Shipment** - The pricing for our products include packing for standard ground domestic shipments, such as motor freight or package carriers.

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Under no circumstances shall we be responsible or back-charged for the loss of customer freight advantages due to routing instructions and/or freight terms.

**Shortage and Damage Claims** - All claims of shortages and damage must be filed within seven days of receipt of material.


**Radian  
Communication  
Services**

6718 W. Plank Rd  
Peoria, IL, 61604  
Telephone + 1 309 697 4400  
Facsimile + 1 309 697 5512  
www.radiancorp.com

June 07, 2006

State of West Virginia  
DHHR, BPH & STECS  
Charleston, WV, 25305-0130

Radian Quote No: Q6-060-0583 Version No: 28 Project: 200' Guyed Tower
---

Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radian Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 200 ft Guyed Mast Tower Radian Model NO. 80 \$29,850.00

**Design Notes:**

- Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within  $\pm 1.5$ ft (0.5m).
- Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
- All welding conforms to AWS.
- Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.

**Structure Price Include(s):**

Tower Structure	Included
Anchor Steel	Included
Lightning Protection	Included
Climbing Facility, Step Bolts	Included
Fall Protect, RAM - Cable c/w trolley	Included
Grounding, EIA	Included
Tapered Base	Included
12' Mounting Frame w/ (12) Mounting pipes	Included
<b>Total Price US Dollars</b>	<b>\$29,850.00</b>
<i>Estimated Tower Freight</i>	<i>\$1,650.00</i>
<i>Additional Freight for advanced shipment of Embedded Material</i>	<i>\$550.00</i>
<i>(Freight is estimated FOB Peoria unless otherwise noted - Actual will be invoiced at shipment)</i>	
Applicable Federal/State Taxes	Not Included

**Optional Items (Not included in structure total) :**

Lighting, MI Dual	\$4,872.00
Ice Protection for Lighting	\$290.00
(1) Face Waveguide Brace Brackets	\$395.00

---

**TO PLACE AN ORDER AGAINST THE ABOVE PROPOSAL, PLEASE FAX OR EMAIL YOUR PURCHASE ORDER TO:**

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Ph: 410-778-4441  
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Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)  
**WE THANK YOU FOR YOUR BUSINESS!**

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## Antennas, Ancillaries and Transmission Lines

Description	Qty	Elev.(ft)	Azimuth	Mount	TX Lines	Qty	Line Support
1'x4' PANELS	12	197	N/A	Included	LDF7-50A	12	Optional
6' HP DISH	2	180	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	147	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	113	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	80	N/A	Optional	LDF7-50A	9	Optional
4 SF EPA WHIP W/6' SA	2	190	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	155	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	120	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	85	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	50	N/A	Optional	LDF5-50A	2	Optional

**Quote Specific Terms:**

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- 2- Terms for materials are Net 30 days after shipment from the point of manufacturing.
- 3- This proposal is subject to the attached Terms and Conditions of Sale.
- 4- Foundation and tower designs charges, if ordered independently, are \$1500. This cost is deductible from the overall price of the structure once the structure is released for production and shipped.
- 5- Quoted prices do not include taxes. Refer to Terms and Conditions of Sale. Taxes will be invoiced unless an exemption certificate is provided with the order.
- 6- Delivery schedules are contingent upon the backlog at the time of order and the availability of materials.
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Radian  
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6718 W. Plank Rd  
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Facsimile + 1 309 697 5812  
www.radiancorp.com

June 07, 2006

State of West Virginia  
DHHR, BPH & STECS  
Charleston, WV, 25305-0130

Radian Quote No: Q6-060-0583  
Version No: 27  
Project: 240' Guyed Tower

Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radian Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 240 ft Guyed Mast Tower Radian Model NO. 80 **\$31,560.00**

**Design Notes:**

1. Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within  $\pm 1.5$  ft (0.5m).
2. Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
3. All welding conforms to AWS.
4. Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.

**Structure Price Include(s):**

Tower Structure	Included
Anchor Steel	Included
Lightning Protection	Included
Climbing Facility, Step Bolts	Included
Fall Protect, RAM - Cable c/w trolley	Included
Grounding, EIA	Included
Tapered Base	Included
12' Mounting Frame w/ (12) Mounting Pipes	Included
<b>Total Price US Dollars</b>	<b>\$31,560.00</b>
<i>Estimated Tower Freight</i>	<i>\$1,650.00</i>
<i>Additional Freight for advanced shipment of Embedded Material</i>	<i>\$550.00</i>
<i>(Freight is estimated FOB Peoria unless otherwise noted - Actual will be invoiced at shipment)</i>	
Applicable Federal/State Taxes	Not Included

**Optional Items (Not included in structure total) :**

Lighting, MI Dual	\$4,672.00
Ice Protection for Lighting	\$290.00
(1) Face Waveguide Brace Brackets	\$475.00

---

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**WE THANK YOU FOR YOUR BUSINESS!**

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## Antennas, Ancillaries and Transmission Lines

Description	Qty	Elev.(ft)	Azimuth	Mount	TX Lines	Qty	Line Support
1'x4' PANELS	12	237	N/A	Included	LDF7-50A	12	Optional
6' HP DISH	2	220	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	173	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	127	N/A	Optional	LDF7-50A	9	Optional
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4 SF EPA WHIP W/6' SA	2	230	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	185	N/A	Optional	LDF5-50A	2	Optional
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4 SF EPA WHIP W/6' SA	2	90	N/A	Optional	LDF5-50A	2	Optional
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June 07, 2006

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DHHR, BPH & STECS  
Charleston, WV, 25305-0130

Radian Quote No: Q6-060-0583  
Version No: 26  
Project: 280' Guyed Tower

Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radian Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 280 ft Guyed Mast Tower Radian Model NO. 80 **\$41,460.00**

**Design Notes:**

1. Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within ± 1.5ft (0.5m).
2. Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
3. All welding conforms to AWS.
4. Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels, and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.

**Structure Price Include(s):**

Tower Structure	Included
Anchor Steel	Included
Lightning Protection	Included
Climbing Facility, Step Bolts	Included
Fall Protect, RAM - Cable c/w trolley	Included
Grounding, EIA	Included
Tapered Base	Included
12' Mounting Frame w/ (12) Mounting Pipes	Included
<b>Total Price US Dollars</b>	<b>\$41,460.00</b>
<i>Estimated Tower Freight</i>	<i>\$1,650.00</i>
<i>Additional Freight for advanced shipment of Embedded Material</i>	<i>\$550.00</i>
<i>(Freight is estimated FOB Peoria unless otherwise noted - Actual will be invoiced at shipment)</i>	
Applicable Federal/State Taxes	Not Included

**Optional Items (Not included in structure total) :**

Lighting, MI Dual	\$4,872.00
Ice Protection for Lighting	\$290.00
(1) Face Waveguide Brace Brackets	\$850.00

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***TO PLACE AN ORDER AGAINST THE ABOVE PROPOSAL, PLEASE FAX OR EMAIL YOUR PURCHASE ORDER TO:***

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

***WE THANK YOU FOR YOUR BUSINESS!***

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## Antennas, Ancillaries and Transmission Lines

Description	Qty	Elev.(ft)	Azimuth	Mount	TX Lines	Qty	Line Support
1'x4' PANELS	12	277	N/A	Included	LDF7-50A	12	Optional
6' HP DISH	2	260	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	200	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	140	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	80	N/A	Optional	LDF7-50A	9	Optional
4 SF EPA WHIP W/6' SA	2	270	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	215	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	160	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	105	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	50	N/A	Optional	LDF5-50A	2	Optional

**Quote Specific Terms:**

- 1- This proposal is valid for 30 days from the quotation date. Please refer to Radian's proposal number when submitting a purchase order.
- 2- Terms for materials are Net 30 days after shipment from the point of manufacturing.
- 3- This proposal is subject to the attached Terms and Conditions of Sale.
- 4- Foundation and tower designs charges, if ordered independently, are \$1500. This cost is deductible from the overall price of the structure once the structure is released for production and shipped.
- 5- Quoted prices do not include taxes. Refer to Terms and Conditions of Sale. Taxes will be invoiced unless an exemption certificate is provided with the order.
- 6- Delivery schedules are contingent upon the backlog at the time of order and the availability of materials.
- 7- Certification of Radian's products or foundation designs based on specifications provided to Radian do not include services for serving as a project's prime professional or engineer of record for the purposes of reviewing and coordinating documents submitted for a building permit, including deferred submittals and documents prepared by others. Radian has not verified that the design parameters provided to Radian for this proposal meets the requirements for the intended application or meets the requirements of the appropriate regulatory agencies. Price adjustments may apply for requirements in addition to those stated in this proposal.
- 8- Prices for foundations designs to be based on geotechnical data to be supplied at the time of an order are based on the design of conventional foundations consisting of pier & pad, caissons, mat and deadman anchor blocks. Other types of foundation designs, if required for site-specific conditions, will be quoted upon receipt of the geotechnical data.
- 9- Materials and services placed on hold for more than 15 days after placement of an order will be subject to a price review upon notification to proceed with the order. This may result in an increase to the quoted prices.
- 10- For structures to be shipped by the customer at the point of manufacturing, dunnage and loading charges of \$350 may apply and will be invoiced with the structure.
- 11- Storage charges of \$8.00 a day will be invoiced on a monthly basis for material requested to be withheld from shipment starting 30 days from the initial notification from Radian that the material was available for shipment.
- 12- Freight pricing is subject to change due to extreme freight price fluctuations and will be reviewed and confirmed at the time an order is placed for the quoted materials.
- 13- Additional freight may apply for optional items ordered. Prices for optional items are based on the optional items being ordered with the structure.
- 14- Acceptance of an order will be contingent on customer credit approval.
- 15- Design profile provided at time of quotation is preliminary and is subject to change based upon final design.
- 16- This quotation is proprietary, confidential and a trade secret of Radian. This proposal is being provided for the exclusive use of our customer and is not to be disclosed to third parties.
- 17- Unless noted above, Radian general terms and conditions (attached) apply.

## General Terms and Conditions of Sale

**General** - In accordance with the usage of trade, we conclusively presume by the absence of any written objection and by the acceptance of part or all of the material ordered that:

- All proposals, negotiations, and representations regarding a transaction that are made prior to the date of this document, if any, are hereby merged into this document.

- The agreement and language herein shall be construed and enforced in accordance with the laws of the State of Delaware and the federal laws of the United States, applicable therein as of the date of e-mail confirmation of your order.

- A finance charge, at the monthly rate of 2 %, will be assessed on past due invoices where allowed by applicable law.

**Delay** - We shall be excused for any delay in performance caused by acts of God, war, riot, embargoes, acts of civil or military authorities, fires, floods, accidents, quarantine restrictions, mail conditions, strikes, differences with workers, delays in transportation, shortages of cars, fuel, labor or materials or any other circumstances or causes beyond the control of our reasonable conduct of business.

**Title and Risk of Loss** - Full risk of loss, including transportation delays and losses, shall pass to you upon delivery of products to the FOB point. However, we retain title, for security purposes only, if all products are not paid in full in cash. In the event that you default in payments hereunder, we, at our option, may repossess all unpaid products and charge you with any deficiency.

**Terms** - Terms are net 30 days from invoice date on approved credit.

**Credit Approval** - Shipment, deliveries, and performance of work shall at all times be at the approval of your credit. We may at any time decline to make any shipment or delivery, or to perform any work, except on receipt of payment or security, or upon terms and conditions satisfactory to us.

**Taxes** - When we are required to collect or pay taxes under any existing or future law, the taxes shall be for your account, and you will, upon demand, make prompt payment of the amount thereof to us. Applicable taxes may be in regard to the sale, purchase, delivery, storage, processing, use or consumption of any products covered herein, including taxes based on the receipts from the sale thereof. Taxes are not included in any published or quoted price shown, unless specifically identified as such.

**Warranty** - All products are warranted to be free of defects in material and workmanship. The warranty is effective for two years, commencing on the date of shipment.

**Buyer's Remedies** - If the material furnished to you should fail, whether due to our negligent acts or omissions, to nonconformity, or otherwise, with these terms and conditions, or to any expressed or implied warranty, we shall replace such failed products at the original point of delivery. Instructions will be furnished to you for the disposition of the failed products, and any transportation charges involved in the disposition shall be our account.

**YOUR EXCLUSIVE AND SOLE REMEDY IN REGARD TO HAVING RECEIVED FAILED PRODUCTS, WHETHER DUE TO OUR NEGLIGENT ACTS OR OMISSIONS, TO NONCONFORMITY, OR OTHERWISE, WITH THESE TERMS AND CONDITIONS, OR TO ANY EXPRESSED OR IMPLIED WARRANTY SHALL BE TO OBTAIN REPLACEMENT AS SPECIFIED ABOVE. WE SHALL NOT IN ANY EVENT BE LIABLE FOR THE COST OF ANY LABOR EXPENDED IN ANY SUCH PRODUCTS, OR FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES DUE TO THE PRODUCT'S NONCONFORMITY WITH THESE TERMS AND CONDITIONS OR TO ANY EXPRESSED OR IMPLIED WARRANTY.**

**Cancellation** - Order accepted by us are non-cancelable by you unless agreed to in writing by us. If you provide a written request to cancel an entire order, or any portion thereof, and we agree in writing to such request, you will then be responsible for a reasonable fee reflecting the non-recoverable time and material costs, with reasonable profit, expended by us prior to cancellation.

**Packaging for Shipment** - The pricing for our products include packing for standard ground domestic shipments, such as motor freight or package carrier.

When special packaging is required for other means of shipment, such as for air shipment, ocean freight, etc., additional charges will apply and will be added to the order. Pricing for such special packaging will be furnished to you upon request.

**Freight** - Freight prices, if shown, are estimated for the stated mode of transportation and are based on tariffs and rates in effect at the time of the quotation. Freight charges are to your account. Point of delivery of all products is defined as the nearest dock or terminal used or arranged for by the appollated carrier, and that which is nearest to the construction site(s).

Handling and further transportation from the defined point of delivery will be your responsibility unless specifically included in the quotation.

**Customer Specified Shipping and Freight Terms** - We shall comply with the customer-specified shipping instructions and freight terms, provided they are stated in the written purchase order. On verbal purchase orders, we shall comply with the customer-specified shipping instructions and freight terms. However, in the event a confirming purchase order with different shipping instructions or freight terms is received after the order has shipped, the instructions and terms in the verbal purchase order will control. Written and verbal purchase orders that specify the destination, without specifying routing instructions and/or freight terms, will be shipped by a carrier and with freight terms (prepaid, collect, COD, etc.) of our choice.

Under no circumstances shall we be responsible or back-charged for the loss of customer freight advantages due to routing instructions and/or freight terms.

**Shortage and Damage Claims** - All claims of shortages and damage must be filed within seven days of receipt of material.


**Radian  
Communication  
Services**

6718 W. Plank Rd  
Peoria, IL 61604  
Telephone + 1 309 697 4400  
Facsimile + 1 309 697 5612  
www.radiancorp.com

June 06, 2006

State of West Virginia  
DHHR, BPH & STECS  
Charleston, WV, 25305-0130

<b>Radian Quote No: Q6-060-0583</b> <b>Version No: 25</b> <b>Project: 320' Guyed Tower</b>
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Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radian Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 320 ft Guyed Mast Tower Radian Model NO. 80 **\$48,660.00**

**Design Notes:**

1. Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within +/- 1.5ft (0.5m).
2. Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
3. All welding conforms to AWS.
- 4.4. Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.

**Structure Price Include(s):**

Tower Structure	Included
Anchor Steel	Included
Lightning Protection,	Included
Climbing Facility, Step Bolts	Included
Fall Protect, RAM - Cable c/w trolley	Included
Grounding, EIA	Included
Tapered Base	Included
12' Mounting Frame w/ (12) Mounting Pipes	Included
<b>Total Price US Dollars</b>	<b>\$48,660.00</b>
<i>Estimated Tower Freight</i>	<i>\$1,650.00</i>
<i>Additional Freight for advanced shipment of Embedded Material</i>	<i>\$500.00</i>
(Freight is estimated FOB Peoria unless otherwise noted - Actual will be invoiced at shipment)	
Applicable Federal/State Taxes	Not Included

**Optional Items (Not included in structure total) :**

Lighting, MI Dual	\$4,956.00
Ice Protection for Lighting	\$295.00
(1) Face Waveguide Brace Brackets	\$650.00

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***WE THANK YOU FOR YOUR BUSINESS!***

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## Antennas, Ancillaries and Transmission Lines

Description	Qty	Elev.(ft)	Azimuth	Mount	TX Lines	Qty	Line Support
1'x4' PANELS	12	317	N/A	Included	LDF7-50A	12	Optional
6' HP DISH	2	300	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	227	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	154	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	80	N/A	Optional	LDF7-50A	9	Optional
4 SF EPA WHIP W/6' SA	2	310	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	245	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	180	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	115	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	50	N/A	Optional	LDF5-50A	2	Optional



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- 3- This proposal is subject to the attached Terms and Conditions of Sale.
- 4- Foundation and lower designs charges, if ordered independently, are \$1500. This cost is deductible from the overall price of the structure once the structure is released for production and shipped.
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- 6- Delivery schedules are contingent upon the backlog at the time of order and the availability of materials.
- 7- Certification of Radian's products or foundation designs based on specifications provided to Radian do not include services for serving as a project's prime professional or engineer of record for the purposes of reviewing and coordinating documents submitted for a building permit, including deferred submittals and documents prepared by others. Radian has not verified that the design parameters provided to Radian for this proposal meets the requirements for the intended application or meets the requirements of the appropriate regulatory agencies. Price adjustments may apply for requirements in addition to those stated in this proposal.
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- 9- Materials and services placed on hold for more than 15 days after placement of an order will be subject to a price review upon notification to proceed with the order. This may result in an increase to the quoted prices.
- 10- For structures to be shipped by the customer at the point of manufacturing, damage and loading charges of \$350 may apply and will be invoiced with the structure.
- 11- Storage charges of \$8.00 a day will be invoiced on a monthly basis for material requested to be withheld from shipment starting 30 days from the initial notification from Radian that the material was available for shipment.
- 12- Freight pricing is subject to change due to extreme freight price fluctuations and will be reviewed and confirmed at the time an order is placed for the quoted materials.
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- The agreement and language herein shall be construed and enforced in accordance with the laws of the State of Delaware and the federal laws of the United States, applicable therein as of the date of e-mail confirmation of your order.

- A finance charge, at the monthly rate of 2 %, will be assessed on past due invoices where allowed by applicable law.

**Delay** - We shall be excused for any delay in performance caused by acts of God, war, riot, embargoes, acts of civil or military authorities, fires, floods, accidents, quarantine restrictions, mail conditions, strikes, differences with workers, delays in transportation, shortages of cars, fuel, labor or materials or any other circumstances or causes beyond the control of our reasonable conduct of business.

**Title and Risk of Loss** - Full risk of loss, including transportation delays and losses, shall pass to you upon delivery of products to the FOB point. However, we retain title, for security purposes only, if all products are not paid in full in cash. In the event that you default in payments hereunder, we, at our option, may repossess all unpaid products and charge you with any deficiency.

**Terms** - Terms are net 30 days from invoice date on approved credit.

**Credit Approval** - Shipment, deliveries, and performance of work shall at all times be at the approval of your credit. We may at any time decline to make any shipment or delivery, or to perform anywork, except on receipt of payment or security, or upon terms and conditions satisfactory to us.

**Taxes** - When we are required to collect or pay taxes under any existing or future law, the taxes shall be for your account, and you will, upon demand, make prompt payment of the amount thereof to us. Applicable taxes may be in regard to the sale, purchase, delivery, storage, processing, use or consumption of any products covered herein, including taxes based on the receipts from the sale thereof. Taxes are not included in any published or quoted price shown, unless specifically identified as such.

**Warranty** - All products are warranted to be free of defects in material and workmanship. The warranty is effective for two years, commencing on the date of shipment.

**Buyer's Remedy** - If the material furnished to you should fail, whether due to our negligent acts or omissions, to nonconformity, or otherwise, with these terms and conditions, or to any expressed or implied warranty, we shall replace such failed products at the original point of delivery. Instructions will be furnished to you for the disposition of the failed products, and any transportation charges involved in the disposition shall be to our account.

**YOUR EXCLUSIVE AND SOLE REMEDY IN REGARD TO HAVING RECEIVED FAILED PRODUCTS, WHETHER DUE TO OUR NEGLIGENT ACTS OR OMISSIONS, TO NONCONFORMITY, OR OTHERWISE WITH THESE TERMS AND CONDITIONS, OR TO ANY EXPRESSED OR IMPLIED WARRANTY SHALL BE TO OBTAIN REPLACEMENT AS SPECIFIED ABOVE. WE SHALL NOT IN ANY EVENT BE LIABLE FOR THE COST OF ANY LABOR EXPENDED IN ANY SUCH PRODUCTS, OR FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES DUE TO THE PRODUCT'S NONCONFORMITY WITH THESE TERMS AND CONDITIONS OR TO ANY EXPRESSED OR IMPLIED WARRANTY.**

**Cancellation** - Orders accepted by us are non-cancelable by you unless agreed to in writing by us. If you provide a written request to cancel an entire order, or any portion thereof, and we agree in writing to such request, you will then be responsible for a reasonable fee reflecting the non-recoverable time and material costs, with reasonable profit, expended by us prior to cancellation.

**Packaging for Shipment** - The pricing for our products include packing for standard ground domestic shipments, such as motor freight or package carrier.

When special packaging is required for other means of shipment, such as for air shipment, ocean freight, etc., additional charges will apply and will be added to the order. Pricing for such special packaging will be furnished to you upon request.

**Freight** - Freight prices, if shown, are estimated for the noted mode of transportation and are based on tariffs and rates in effect at the time of the quotation. Freight charges are to your account. Point of delivery of all products is defined as the nearest dock or terminal used or arranged for by the appointed carrier, and that which is nearest to the construction site(s).

Handling and further transportation from the destined point of delivery will be your responsibility unless specifically included in the quotation.

**Customer Specified Shipping and Freight Terms** - We shall comply with the customer-specified shipping instructions and freight terms, provided they are listed in the written purchase order. On verbal purchase orders, we shall comply with the customer-specified shipping instructions and freight terms. However, in the event a confirming purchase order with different shipping instructions or freight terms is received after the order has shipped, the instructions and terms in the verbal purchase order will control. Written and verbal purchase orders that specify the destination, without specifying routing instructions and/or freight terms, will be shipped by a carrier and with freight terms (prepaid, collect, COD, etc.) of our choice.

Under no circumstances shall we be responsible or back-charged for the loss of customer freight advantages due to routing instructions and/or freight terms.

**Shortage and Damage Claims** - All claims of shortage and damage must be filed within seven days of receipt of material.



**Radian  
Communication  
Services**

6718 W. Flank Rd  
Peoria, IL, 61604  
Telephone + 1 309 697 4400  
Facsimile + 1 309 697 5612  
www.radiancorp.com

June 07, 2006

State of West Virginia  
DHHR, BPH & STECS  
Charleston, WV, 25305-0130

Quotation No: QG-060-0583 Version No: 22 Project: 360' Guyed Tower
--

Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radian Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 360 ft (109.73 m) Guyed Mast Tower Radian Model NO. 80 \$52,493.00

**Design Notes:**

1. Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within  $\pm 1.5$ ft (0.5m).
2. Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
3. All welding conforms to AWS.
4. Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.

**Structure Price Include(s):**

Tower Structure	Included
Anchor Steel	Included
Lightning Protection	Included
Climbing Facility, Step Bolts	Included
Fall Protect, RAM - Cable c/w trolley	Included
Grounding, EIA	Included
Tapered Base	Included
12' Mounting Frame w/ (12) Mounting Pipes	Included
<b>Total Price US Dollars</b>	<b>\$52,493.00</b>
<i>Estimated Tower Freight</i>	<i>\$3,300.00</i>
<i>Additional Freight for advanced shipment of Embedded Material</i>	<i>\$750.00</i>
<i>(Freight is estimated FOB Peoria unless otherwise noted - Actual will be invoiced at shipment)</i>	
Applicable Federal/State Taxes	Not Included

**Optional Items (Not included in structure total) :**

Lighting, MI Dual	\$13,456.00
Ice Protection for Lighting	\$580.00
(1) Face Waveguide Brace Brackets	\$725.00

---

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**WE THANK YOU FOR YOUR BUSINESS!**

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## Antennas, Ancillaries and Transmission Lines

Description	Qty	Elev.(ft)	Azimuth	Mount	TX Lines	Qty	Line Support
1'x4' PANELS	12	357	N/A	Included	LDF7-50A	12	Optional
6' HP DISH	2	340	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	255	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	168	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	80	N/A	Optional	LDF7-50A	9	Optional
4 SF EPA WHIP W/6' SA	2	350	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	275	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	200	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	125	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	50	N/A	Optional	LDF5-50A	2	Optional

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- 7- Certification of Radian's products or foundation designs based on specifications provided to Radian do not include services for serving as a project's prime professional or engineer of record for the purposes of reviewing and coordinating documents submitted for a building permit, including deferred submittals and documents prepared by others. Radian has not verified that the design parameters provided to Radian for this proposal meets the requirements for the intended application or meets the requirements of the appropriate regulatory agencies. Price adjustments may apply for requirements in addition to those stated in this proposal.
- 8- Prices for foundations designs to be based on geotechnical data to be supplied at the time of an order are based on the design of conventional foundations consisting of pier & pad, caissons, mat and deadman anchor blocks. Other types of foundation designs, if required for site-specific conditions, will be quoted upon receipt of the geotechnical data.
- 9- Materials and services placed on hold for more than 15 days after placement of an order will be subject to a price review upon notification to proceed with the order. This may result in an increase to the quoted prices.
- 10- For structures to be shipped by the customer at the point of manufacturing, dunnage and loading charges of \$350 may apply and will be invoiced with the structure.
- 11- Storage charges of \$8.00 a day will be invoiced on a monthly basis for material requested to be withheld from shipment starting 30 days from the initial notification from Radian that the material was available for shipment.
- 12- Freight pricing is subject to change due to extreme freight price fluctuations and will be reviewed and confirmed at the time an order is placed for the quoted materials.
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• The agreement and language herein shall be construed and enforced in accordance with the laws of the State of Delaware and the federal laws of the United States, applicable therein as of the date of e-mail confirmation of your order.

• A finance charge, at the monthly rate of 2 %, will be assessed on past due invoices where allowed by applicable law.

**Delay** - We shall be excused for any delay in performance caused by acts of God, war, riot, embargoes, acts of civil or military authorities, fires, floods, accidents, quarantine restrictions, mail conditions, strikes, differences with workers, delays in transportation, shortages of cars, fuel, labor or materials or any other circumstances or causes beyond the control of our reasonable conduct of business.

**Title and Risk of Loss** - Full risk of loss, including transportation delays and losses, shall pass to you upon delivery of products to the FOB point. However, we retain title, for security purposes only, if all products are not paid in full in cash. In the event that you default in payments hereunder, we, at our option, may repossess all unpaid products and charge you with any deficiency.

**Terms** - Terms are net 30 days from invoice date on approved credit.

**Credit Approval** - Shipment, deliveries, and performance of work shall at all times be at the approval of your credit. We may at any time decline to make any shipment or delivery, or to perform anywork, except on receipt of payment or security, or upon terms and conditions satisfactory to us.

**Taxes** - When we are required to collect or pay taxes under any existing or future law, the taxes shall be for your account, and you will, upon demand, make prompt payment of the amount thereof to us. Applicable taxes may be in regard to the sale, purchase, delivery, storage, processing, use or consumption of any products covered herein, including taxes based on the receipts from the sale thereof. Taxes are not included in any published or quoted price shown, unless specifically identified as such.

**Warranty** - All products are warranted to be free of defects in material and workmanship. The warranty is effective for two years, commencing on the date of shipment.

**Buyer's Remedies** - If the material furnished to you should fail, whether due to our negligent acts or omissions, to nonconformity, or otherwise, with these terms and conditions, or to any expressed or implied warranty, we shall replace such failed products at the original point of delivery. Instructions will be furnished to you for the disposition of the failed products, and any transportation charges involved in the disposition shall be to our account.

**YOUR EXCLUSIVE AND SOLE REMEDY IN REGARD TO HAVING RECEIVED FAILED PRODUCTS, WHETHER DUE TO OUR NEGLIGENT ACTS OR OMISSIONS, TO NONCONFORMITY, OR OTHERWISE, WITH THESE TERMS AND CONDITIONS, OR TO ANY EXPRESSED OR IMPLIED WARRANTY SHALL BE TO OBTAIN REPLACEMENT AS SPECIFIED ABOVE. WE SHALL NOT IN ANY EVENT BE LIABLE FOR THE COST OF ANY LABOR EXPENDED IN ANY SUCH PRODUCTS, OR FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES DUE TO THE PRODUCT'S NONCONFORMITY WITH THESE TERMS AND CONDITIONS OR TO ANY EXPRESSED OR IMPLIED WARRANTY.**

**Cancellation** - Orders accepted by us are non-cancelable by you unless agreed to in writing by us. If you provide a written request to cancel an entire order, or any portion thereof, and we agree in writing to such request, you will then be responsible for a reasonable fee reflecting the non-recoverable time and material costs, with reasonable profit, expended by us prior to cancellation.

**Packaging for Shipment** - The pricing for our products include packing for standard ground domestic shipments, such as motor freight or package carrier.

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**Customer Specified Shipping and Freight Terms** - We shall comply with the customer-specified shipping instructions and freight terms, provided they are stated in the written purchase order. On verbal purchase orders, we shall comply with the customer-specified shipping instructions and freight terms. However, in the event a confirming purchase order with different shipping instructions or freight terms is received after the order has shipped, the instructions and terms in the verbal purchase order will control. Written and verbal purchase orders that specify the destination, without specifying routing instructions and/or freight terms, will be shipped by a carrier and with freight terms (prepaid, collect, COD, etc.) of our choice.

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**Shortage and Damage Claims** - All claims of shortages and damage must be filed within seven days of receipt of material.



Radian  
Communication  
Services

6718 W. Plank Rd  
Peoria, IL 61604  
Telephone + 1 309 697 4400  
Facsimile + 1 309 697 5612  
www.radiancorp.com

June 07, 2006

State of West Virginia  
DHHR, BPH & STECS  
Charleston, WV, 25305-0130

Radian Quote No: Q6-060-0583 Version No: 24 Project: 400' Guyed Tower
---

Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radian Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 400 ft Guyed Mast Tower Radian Model NO. 80SR **\$61,900.00**

**Design Notes:**

1. Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within +/- 1.5ft (0.5m).
2. Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
3. All welding conforms to AWS.
4. Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.

**Structure Price Include(s):**

Tower Structure	Included
Anchor Steel	Included
Lightning Protection,	Included
Climbing Facility, Step Bolts	Included
Fail Protect, RAM - Cable c/w trolley	Included
Grounding, EIA	Included
Tapered Base	Included
12' Mounting Frame w/ (12) Mounting pipes	Included
<b>Total Price US Dollars</b>	<b>\$61,900.00</b>
<i>Estimated Tower Freight</i>	<i>\$3,300.00</i>
<i>Additional Freight for advanced shipment of Embedded Material</i>	<i>\$750.00</i>
<i>(Freight is estimated FOB Peoria unless otherwise noted - Actual will be invoiced at shipment)</i>	
Applicable Federal/State Taxes	Not Included



**Optional Items (Not included in structure total) :**

Lighting, MI Dual	\$13,456.00
Ice Protection for Lighting	\$295.00
(1) Face Waveguide Brace Brackets	\$800.00

---

**TO PLACE AN ORDER AGAINST THE ABOVE PROPOSAL, PLEASE FAX OR EMAIL YOUR PURCHASE ORDER TO:**

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)  
**WE THANK YOU FOR YOUR BUSINESS!**

---

## Antennas, Ancillaries and Transmission Lines

Description	Qty	Elev.(ft)	Azimuth	Mount	TX Lines	Qty	Line Support
1'x4' PANELS	12	397	N/A	Included	LDF7-50A	12	Optional
6' HP DISH	2	380	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	280	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	180	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	80	N/A	Optional	LDF7-50A	9	Optional
4 SF EPA WHIP W/6' SA	2	390	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	305	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	220	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	135	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	50	N/A	Optional	LDF5-50A	2	Optional

**Quote Specific Terms:**

- 1- This proposal is valid for 30 days from the quotation date. Please refer to Radian's proposal number when submitting a purchase order.
- 2- Terms for materials are Net 30 days after shipment from the point of manufacturing.
- 3- This proposal is subject to the attached Terms and Conditions of Sale.
- 4- Foundation and tower designs charges, if ordered independently, are \$1500. This cost is deductible from the overall price of the structure once the structure is released for production and shipped.
- 5- Quoted prices do not include taxes. Refer to Terms and Conditions of Sale. Taxes will be invoiced unless an exemption certificate is provided with the order.
- 6- Delivery schedules are contingent upon the backlog at the time of order and the availability of materials.
- 7- Certification of Radian's products or foundation designs based on specifications provided to Radian do not include services for serving as a project's prime professional or engineer of record for the purposes of reviewing and coordinating documents submitted for a building permit, including deferred submittals and documents prepared by others. Radian has not verified that the design parameters provided to Radian for this proposal meets the requirements for the intended application or meets the requirements of the appropriate regulatory agencies. Price adjustments may apply for requirements in addition to those stated in this proposal.
- 8- Prices for foundations designs to be based on geotechnical data to be supplied at the time of an order are based on the design of conventional foundations consisting of pier & pad, caissons, mat and deadman anchor blocks. Other types of foundation designs, if required for site-specific conditions, will be quoted upon receipt of the geotechnical data.
- 9- Materials and services placed on hold for more than 15 days after placement of an order will be subject to a price review upon notification to proceed with the order. This may result in an increase to the quoted prices.
- 10- For structures to be shipped by the customer at the point of manufacturing, dunnage and loading charges of \$350 may apply and will be invoiced with the structure.
- 11- Storage charges of \$8.00 a day will be invoiced on a monthly basis for material requested to be withheld from shipment starting 30 days from the initial notification from Radian that the material was available for shipment.
- 12- Freight pricing is subject to change due to extreme freight price fluctuations and will be reviewed and confirmed at the time an order is placed for the quoted materials.
- 13- Additional freight may apply for optional items ordered. Prices for optional items are based on the optional items being ordered with the structure
- 14- Acceptance of an order will be contingent on customer credit approval.
- 15- Design profile provided at time of quotation is preliminary and is subject to change based upon final design.
- 16- This quotation is proprietary, confidential and a trade secret of Radian. This proposal is being provided for the exclusive use of our customer and is not to be disclosed to third parties.
- 17- Unless noted above, Radian general terms and conditions (attached) apply.

## General Terms and Conditions of Sale

**General** - In accordance with the usage of trade, we conclusively presume by the absence of any written objection and by the acceptance of part or all of the material ordered that:

- All proposals, negotiations, and representations regarding a transaction that are made prior to the date of this document, if any, are hereby merged into this document.
- The agreement and language herein shall be construed and enforced in accordance with the laws of the State of Delaware and the federal laws of the United States, applicable therein as of the date of e-mail confirmation of your order.
- A finance charge, at the monthly rate of 2 %, will be assessed on past due invoices where allowed by applicable law.

**Delay** - We shall be excused for any delay in performance caused by acts of God, war, riot, embargoes, acts of civil or military authorities, fires, floods, accidents, quarantine restrictions, mail conditions, strikes, differences with workers, delays in transportation, shortages of cars, fuel, labor or materials or any other circumstances or causes beyond the control of our reasonable conduct of business.

**Title and Risk of Loss** - Full risk of loss, including transportation delays and losses, shall pass to you upon delivery of products to the FOB point. However, we retain title, for security purposes only, if all products are not paid in full in cash. In the event that you default in payments hereunder, we, at our option, may repossess all unpaid products and charge you with any deficiency.

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**Cancellation** - Orders accepted by us are non-cancelable by you unless agreed to in writing by us. If you provide a written request to cancel an entire order, or any portion thereof, and we agree in writing to such request, you will then be responsible for a reasonable fee reflecting the non-recoverable time and material costs, with reasonable profit, expended by us prior to cancellation.

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Facsimile + 1 309 697 5612  
www.radiancorp.com

June 07, 2006

State of West Virginia  
DHHR, BPH & STECS  
Charleston, WV, 25305-0130

Radian Quote No: Q6-060-0583 Version No: 23 Project: 440' Guyed Tower
---

Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radian Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 440 ft Guyed Mast Tower Radian Model NO. 80SR **\$67,930.00**

**Design Notes:**

1. Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within +/- 1.5ft (0.5m).
2. Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
3. All welding conforms to AWS.
4. Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.

**Structure Price Include(s):**

Tower Structure	Included
Anchor Steel	Included
Lightning Protection	Included
Climbing Facility, Step Bolts	Included
Fail Protect, RAM - Cable c/w trolley	Included
Grounding, ETA	Included
Tapered Base	Included
12' Mounting Frame w/ (12) Mounting pipes	Included
<b>Total Price US Dollars</b>	<b>\$67,930.00</b>
<i>Estimated Tower Freight</i>	<i>\$3,300.00</i>
<i>Additional Freight for advanced shipment of Embedded Material</i>	<i>\$750.00</i>
<i>(Freight is estimated FOB Peoria unless otherwise noted - Actual will be invoiced at shipment)</i>	
Applicable Federal/State Taxes	Not Included

**Optional Items (Not included in structure total) :**

Lighting, MI Dual	\$13,456.00
Ice Protection for Lighting	\$295.00
(1) Face Waveguide Brace Brackets	\$875.00

---

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Radian Contact: Ken Cordrey

Ph: 410-778-4441

Fx: 410-778-3096

Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

**WE THANK YOU FOR YOUR BUSINESS!**

---

## Antennas, Ancillaries and Transmission Lines

Description	Qty	Elev.(ft)	Azimuth	Mount	TX Lines	Qty	Line Support
1'x4' PANELS	12	437	N/A	Included	LDF7-50A	12	Optional
6' HP DISH	2	420	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	307	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	194	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	80	N/A	Optional	LDF7-50A	9	Optional
4 SF EPA WHIP W/6' SA	2	430	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	335	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	240	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	145	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	50	N/A	Optional	LDF5-50A	2	Optional

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Services**

6718 W. Plank Rd  
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Facsimile + 1 309 697 5812  
www.radiancorp.com

June 07, 2006

State of West Virginia  
DHHR, BPH & STECS  
Charleston, WV, 25305-0130

Radian Quote No: Q6-060-0583  
Version No: 20  
Project: 480' Guyed Tower

Attn: Purchasing Division  
Ph:  
Fx:  
Email:

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

Radian Communication Services is pleased to present this quotation for your upcoming project.

**Structure:**

Item 1: 480 ft Guyed Mast Tower Radian Model NO. 80WR **\$79,175.00**

**Design Notes:**

1. Structure is designed for 80.4 MPH basic wind speed and 0.5 inches radial ice as per EIA-222-F. Tower height is nominal. Actual installed height may vary within +/- 1.5ft (0.5m).
2. Structure designed for antennas and lines as per the "Antennas, Ancillaries and Transmission Lines". Please refer to the enclosed information.
3. All welding conforms to AWS.
4. Due to the time frame of the contract, it may be possible that changes could occur in raw materials, fuels and labor. Prices will be reviewed upon receipt of any order to verify any variances in costs. Should this review bring to our attention any variances requiring changes, we will advise you at this time.

**Structure Price Include(s):**

Tower Structure	Included
Anchor Steel	Included
Lightning Protection	Included
Climbing Facility, Step Bolts	Included
Fall Protect, RAM - Cable c/w trolley	Included
Grounding, EIA	Included
Tapered Base	Included
12' Mounting Frame w/ (12) Mounting pipes	Included
<b>Total Price US Dollars</b>	<b>\$79,175.00</b>
<i>Estimated Tower Freight</i>	<i>\$3,300.00</i>
<i>Additional Freight for advanced shipment of Embedded Material</i>	<i>\$750.00</i>
<i>(Freight is estimated FOB Peoria unless otherwise noted - Actual will be invoiced at shipment)</i>	
Applicable Federal/State Taxes	Not Included

**Optional Items (Not included in structure total) :**

Lighting, MI Dual	\$13,456.00
Ice Protection for Lighting	\$295.00
(1) Face Waveguide Brace Brackets	\$ 940.00

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**TO PLACE AN ORDER AGAINST THE ABOVE PROPOSAL, PLEASE FAX OR EMAIL YOUR PURCHASE ORDER TO:**

Radian Contact: Ken Cordrey  
Ph: 410-778-4441  
Fx: 410-778-3096  
Email: [Ken.Cordrey@radiancorp.com](mailto:Ken.Cordrey@radiancorp.com)

**WE THANK YOU FOR YOUR BUSINESS!**

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## Antennas, Ancillaries and Transmission Lines

Description	Qty	Elev.(ft)	Azimuth	Mount	TX Lines	Qty	Line Support
1'x4' PANELS	12	477	N/A	Included	LDF7-50A	12	Optional
6' HP DISH	2	460	N/A	Optional	LDF7-50A	9	Optional
6' HP DISH	2	333	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	207	N/A	Optional	LDF7-50A	9	Optional
8' HP DISH	2	80	N/A	Optional	LDF7-50A	9	Optional
4 SF EPA WHIP W/6' SA	2	470	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	365	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	260	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	155	N/A	Optional	LDF5-50A	2	Optional
4 SF EPA WHIP W/6' SA	2	50	N/A	Optional	LDF5-50A	2	Optional

**Quote Specific Terms:**

- 1- This proposal is valid for 30 days from the quotation date. Please refer to Radian's proposal number when submitting a purchase order.
- 2- Terms for materials are Net 30 days after shipment from the point of manufacturing.
- 3- This proposal is subject to the attached Terms and Conditions of Sale.
- 4- Foundation and tower designs charges, if ordered independently, are \$1500. This cost is deductible from the overall price of the structure once the structure is released for production and shipped.
- 5- Quoted prices do not include taxes. Refer to Terms and Conditions of Sale. Taxes will be invoiced unless an exemption certificate is provided with the order.
- 6- Delivery schedules are contingent upon the backlog at the time of order and the availability of materials.
- 7- Certification of Radian's products or foundation designs based on specifications provided to Radian do not include services for serving as a project's prime professional or engineer of record for the purposes of reviewing and coordinating documents submitted for a building permit, including deferred submittals and documents prepared by others. Radian has not verified that the design parameters provided to Radian for this proposal meets the requirements for the intended application or meets the requirements of the appropriate regulatory agencies. Price adjustments may apply for requirements in addition to those stated in this proposal.
- 8- Prices for foundations designs to be based on geotechnical data to be supplied at the time of an order are based on the design of conventional foundations consisting of pier & pad, caissons, mat and deadman anchor blocks. Other types of foundation designs, if required for site-specific conditions, will be quoted upon receipt of the geotechnical data.
- 9- Materials and services placed on hold for more than 15 days after placement of an order will be subject to a price review upon notification to proceed with the order. This may result in an increase to the quoted prices.
- 10- For structures to be shipped by the customer at the point of manufacturing, dunnage and loading charges of \$350 may apply and will be invoiced with the structure.
- 11- Storage charges of \$8.00 a day will be invoiced on a monthly basis for material requested to be withheld from shipment starting 30 days from the initial notification from Radian that the material was available for shipment.
- 12- Freight pricing is subject to change due to extreme freight price fluctuations and will be reviewed and confirmed at the time an order is placed for the quoted materials.
- 13- Additional freight may apply for optional items ordered. Prices for optional items are based on the optional items being ordered with the structure
- 14- Acceptance of an order will be contingent on customer credit approval.
- 15- Design profile provided at time of quotation is preliminary and is subject to change based upon final design.
- 16- This quotation is proprietary, confidential and a trade secret of Radian. This proposal is being provided for the exclusive use of our customer and is not to be disclosed to third parties.
- 17- Unless noted above, Radian general terms and conditions (attached) apply.

## General Terms and Conditions of Sale

**General** - In accordance with the usage of trade, we conclusively presume by the absence of any written objection and by the acceptance of part or all of the material ordered that:

\* All proposals, negotiations, and representations regarding a transaction that are made prior to the date of this document, if any, are hereby merged into this document.

\* The agreement and language herein shall be construed and enforced in accordance with the laws of the State of Delaware and the federal laws of the United States, applicable therein as of the date of e-mail confirmation of your order.

\* A finance charge, at the monthly rate of 2 %, will be assessed on past due invoices where allowed by applicable law.

**Delay** - We shall be excused for any delay in performance caused by acts of God, war, riot, embargoes, acts of civil or military authorities, fires, floods, accidents, quarantine restrictions, strike conditions, strikes, differences with workers, delays in transportation, shortages of cars, fuel, labor or materials or any other circumstances or causes beyond the control of our reasonable conduct of business.

**Title and Risk of Loss** - Full risk of loss, including transportation delays and losses, shall pass to you upon delivery of products to the FOB point. However, we retain title, for security purposes only, if all products are not paid in full in cash. In the event that you default in payments hereunder, we, at our option, may repossess all unpaid products and charge you with any deficiency.

**Terms** - Terms are net 30 days from invoice date on approved credit.

**Credit Approval** - Shipment, deliveries, and performance of work shall at all times be at the approval of your credit. We may at any time decline to make any shipment or delivery, or to perform any work, except on receipt of payment or security, or upon terms and conditions satisfactory to us.

**Taxes** - When we are required to collect or pay taxes under any existing or future law, the taxes shall be for your account, and you will, upon demand, make prompt payment of the amount thereof to us. Applicable taxes may be in regard to the sale, purchase, delivery, storage, processing, use or consumption of any products covered herein, including taxes based on the receipts from the sale thereof. Taxes are not included in any published or quoted price shown, unless specifically identified as such.

**Warranty** - All products are warranted to be free of defects in material and workmanship. The warranty is effective for two years, commencing on the date of shipment.

**Buyer's Remedies** - If the material furnished to you should fail, whether due to our negligent acts or omissions, to nonconformity, or otherwise, with these terms and conditions, or to any expressed or implied warranty, we shall replace such failed products at the original point of delivery. Instructions will be furnished to you for the disposition of the failed products, and any transportation charges involved in the disposition shall be to our account.

**YOUR EXCLUSIVE AND SOLE REMEDY IN REGARD TO HAVING RECEIVED FAILED PRODUCTS, WHETHER DUE TO OUR NEGLIGENT ACTS OR OMISSIONS, TO NONCONFORMITY, OR OTHERWISE, WITH THESE TERMS AND CONDITIONS, OR TO ANY EXPRESSED OR IMPLIED WARRANTY SHALL BE TO OBTAIN REPLACEMENT AS SPECIFIED ABOVE. WE SHALL NOT IN ANY EVENT BE LIABLE FOR THE COST OF ANY LABOR EXPENDED IN ANY SUCH PRODUCTS, OR FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES DUE TO THE PRODUCT'S NONCONFORMITY WITH THESE TERMS AND CONDITIONS OR TO ANY EXPRESSED OR IMPLIED WARRANTY.**

**Cancellation** - Orders accepted by us are non-cancelable by you unless agreed to in writing by us. If you provide a written request to cancel an entire order, or any portion thereof, and we agree in writing to such request, you will then be responsible for a reasonable fee reflecting the non-recoverable time and material costs, with reasonable profit, expended by us prior to cancellation.

**Packaging for Shipment** - The pricing for our products include packing for standard ground domestic shipments, such as motor freight or package carriers.

When special packaging is required for other means of shipment, such as air shipment, ocean freight, etc., additional charges will apply and will be added to the order. Pricing for such special packaging will be furnished to you upon request.

**Freight** - Freight prices, if shown, are estimated for the stated mode of transportation and are based on tariffs and rates in effect at the time of the quotation. Freight charges are to your account. Point of delivery of all products is defined as the nearest dock or terminal used or arranged for by the appointed carrier, and that which is nearest to the construction site(s).

Handling and further transportation from the defined point of delivery will be your responsibility unless specifically included in the quotation.

**Customer Specified Shipping and Freight Terms** - We shall comply with the customer-specified shipping instructions and freight terms, provided they are noted in the written purchase order. On verbal purchase orders, we shall comply with the customer-specified shipping instructions and freight terms. However, in the event a confirming purchase order with different shipping instructions or freight terms is received after the order has shipped, the instructions and terms in the verbal purchase order will control. Written and verbal purchase orders that specify the destination, without specifying routing instructions and/or freight terms, will be shipped by a carrier and with freight terms (prepaid, collect, COD, etc.) of our choice.

Under no circumstances shall we be responsible or back-charged for the loss of customer freight advantages due to routing instructions and/or freight terms.

**Shortage and Damage Claims** - All claims of shortages and damage must be filed within seven days of receipt of material.