

ESTIMATE

STR CONSULTING

350 West Ontario Street, Suite 200
Chicago, Illinois 60654

Project: Engineer Sciences Building - Parapet Repairs
 Location: Illinois
 Owner: University
 Architect: _____

Date: February 7, 2011
 Estimate Type: Budget
 STRC File Name: anceOption2.xls]Summary

| No. | Description | Quantity | Unit | Unit Price | Amount | Total |
|-----|-----------------------------------------------------------------------------------|----------|------|------------|-----------|-------|
| | <u>Summary of Parapet Options</u> | | | | | |
| | | | | | | |
| | Option 1A - Remove Parapet and Replace with New Masonry Wall & Limestone Coping | | | | \$328,132 | |
| | | | | | | |
| | Option 1B - Remove Parapet and Replace with New Masonry Wall & Sheet Metal Coping | | | | \$283,564 | |
| | | | | | | |
| | Option 1C - Salvage and Rebuilt Parapet with Existing Brick and Limestone | | | | \$334,430 | |
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| | Option 1D - Remove Parapet and Install Gravel Stop Fascia at Roof Level | | | | \$146,128 | |
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 STRC File Name: :\Finance\Option2.xls\Parapet

| No. | Description | Quantity | Unit | Unit Price | Amount | Total |
|-----------|--------------------------------------------------------------------------------------------|----------|---------|------------|----------|------------------|
| 1. | Option 1A - Remove Parapet and Replace with New Masonry Wall & Limestone Coping | | | | | |
| A. | Mobilization and Protection | | | | | |
| 1 | Plywood roof protection at lower roof | 415 | s.f. | \$4.00 | \$1,660 | |
| 2 | Temporary fencing surrounding work area | 200 | l.f. | \$25.00 | \$5,000 | |
| | a. Relocate fencing as work progresses | 5 | times | \$2,040.00 | \$10,200 | |
| 3 | Erect scaffolding | 30 | set ups | \$890.00 | \$26,700 | |
| 4 | Hoisting and chutes | 5 | weeks | \$2,000.00 | \$10,000 | |
| 5 | Pedestrian barricades at entry | 2 | weeks | \$1,200.00 | \$2,400 | |
| 6 | Temporary protection of wall mounted ductwork | 1 | allow | \$1,080.00 | \$1,080 | |
| 7 | Protect exterior fire escape | 1 | allow | \$720.00 | \$720 | |
| 8 | Disposal of debris | 10 | loads | \$500.00 | \$5,000 | |
| B. | Remove and salvage masonry | | | | | |
| 1 | Remove masonry | | | | | |
| | a. 2 man crew for 100 l.f. / day = 7 days | 112 | hours | \$85.00 | \$9,520 | |
| | b. Tool and miscellaneous material | 5% | allow | \$9,520 | \$476 | |
| 2 | Remove stone coping | 731 | l.f. | \$2.75 | \$2,010 | |
| C. | New Masonry Parapet Walls | | | | | |
| 1 | New brick with 8" CMU backup | 1,440 | s.f. | \$45.00 | \$64,822 | |
| 2 | Thru wall flashing | 731 | l.f. | \$25.00 | \$18,275 | |
| D. | New Limestone coping | | | | | |
| 1 | SS dowel at 4' o.c. | 183 | each | \$25.00 | \$4,569 | |
| 2 | Limestone coping | 731 | l.f. | \$65.00 | \$47,515 | |
| E. | Window / Plaster Parapet | | | | | |
| 1 | 8" CMU back up | 573 | s.f. | \$12.00 | \$6,870 | |
| 2 | Plaster re-coating | 802 | s.f. | \$12.00 | \$9,618 | |
| 3 | Paint plaster - Painting of plaster spandrel panel included in Window Replacement Budget | | | | | |
| F. | Roofing Repair | | | | | |
| 1 | Not Required for Parapet Work - Replacement roof in separate budget | | | | | |
| 2 | Temporary weather protection during parapet work | 731 | l.f. | \$25.00 | \$18,275 | |
| | Subtotal | | | | | \$244,710 |
| G. | General Requirements | | | | | |
| 1 | General Conditions | 10% | | \$244,710 | \$24,471 | |
| 2 | Contractor Overhead and Profit | 6% | | \$269,181 | \$16,151 | |
| 3 | Contingency | 15% | | \$285,332 | \$42,800 | |
| | Total Option 1A | | | | | \$328,132 |
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 STRC File Name: FinanceOption2.xls|Parapet

| No. | Description | Quantity | Unit | Unit Price | Amount | Total |
|----------|----------------------------------------------------------------------------------------------|----------|---------|------------|----------|-----------|
| 2 | Option 1B - Remove Parapet and Replace with New Masonry Wall & Sheet Metal Coping | | | | | |
| A. | Mobilization and Protection | | | | | |
| 1 | Plywood roof protection at lower roof | 415 | s.f. | \$4.00 | \$1,660 | |
| 2 | Temporary fencing surrounding work area | 200 | l.f. | \$25.00 | \$5,000 | |
| | a. Relocate fencing as work progresses | 5 | times | \$2,040.00 | \$10,200 | |
| 3 | Erect scaffolding | 30 | set ups | \$890.00 | \$26,700 | |
| 4 | Hoisting and chutes | 5 | weeks | \$2,000.00 | \$10,000 | |
| 5 | Pedestrian barricades at entry | 2 | weeks | \$400.00 | \$800 | |
| 6 | Temporary protection of wall mounted ductwork | 1 | allow | \$1,080.00 | \$1,080 | |
| 7 | Protect exterior fire escape | 1 | allow | \$720.00 | \$720 | |
| 8 | Disposal of debris | 10 | loads | \$500.00 | \$5,000 | |
| B. | Remove and salvage masonry | | | | | |
| 1 | Remove masonry | | | | | |
| | a. 2 man crew for 100 l.f. / day = 7 days | 112 | hours | \$85.00 | \$9,520 | |
| | b. Tool and miscellaneous material | 5% | allow | \$9,520 | \$476 | |
| 2 | Remove stone coping | 731 | l.f. | \$2.75 | \$2,010 | |
| C. | New Masonry Parapet Walls | | | | | |
| 1 | New brick with 8" CMU backup | 1,440 | s.f. | \$45.00 | \$64,800 | |
| 2 | Thru wall flashing | 731 | l.f. | \$25.00 | \$18,275 | |
| D. | 14" wide Sheet Metal Coping | | | | | |
| 1 | Wood blocking | 731 | l.f. | \$8.00 | \$5,848 | |
| 2 | Metal coping with Kynar finishes | 731 | l.f. | \$20.00 | \$14,620 | |
| E. | Window / Plaster Parapet | | | | | |
| 1 | 8" CMU back up | 573 | s.f. | \$12.00 | \$6,870 | |
| 2 | Plaster re-coating | 802 | s.f. | \$12.00 | \$9,618 | |
| 3 | Paint plaster - Painting of plaster spandrel panel included it Window Replacement Budget | | | | | |
| F. | Roofing Repair | | | | | |
| 1 | Not Required for Parapet Work - Replacement roof in separate budget | | | | | |
| 2 | Temporary weather protection during parapet work | 731 | l.f. | \$25.00 | \$18,275 | |
| | Subtotal | | | | | \$211,473 |
| G. | General Requirements | | | | | |
| 1 | General Conditions | 10% | | \$211,473 | \$21,147 | |
| 2 | Contractor Overhead and Profit | 6% | | \$232,620 | \$13,957 | |
| 3 | Contingency | 15% | | \$246,577 | \$36,987 | |
| | Total Option 1B | | | | | \$283,564 |

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| No. | Description | Quantity | Unit | Unit Price | Amount | Total |
|-----------|------------------------------------------------------------------------------------------|----------|---------|------------|----------|-----------|
| 3. | Option 1C - Salvage and Rebuilt Parapet with Existing Brick and Limestone | | | | | |
| A. | Mobilization and Protection | | | | | |
| 1 | Plywood roof protection at lower roof | 415 | s.f. | \$4.00 | \$1,660 | |
| 2 | Temporary fencing surrounding work area | 200 | l.f. | \$25.00 | \$5,000 | |
| | a. Relocate fencing as work progresses | 5 | times | \$2,040.00 | \$10,200 | |
| 3 | Erect scaffolding | 30 | set ups | \$890.00 | \$26,700 | |
| 4 | Hoisting and chutes | 6 | weeks | \$2,000.00 | \$12,000 | |
| 5 | Pedestrian barricades at entry | 2 | week | \$400.00 | \$800 | |
| 6 | Temporary protection of wall mounted ductwork | 1 | allow | \$1,080.00 | \$1,080 | |
| 7 | Protect exterior fire escape | 1 | allow | \$720.00 | \$720 | |
| 8 | Disposal of debris | 4 | loads | \$500.00 | \$2,000 | |
| B. | Remove and salvage masonry | | | | | |
| 1 | Remove masonry | | | | | |
| | a. 2 man crew for 100 l.f. / day = 7 days | 112 | hours | \$85.00 | \$9,520 | |
| | b. Tool and miscellaneous material | 5% | allow | \$9,520 | \$476 | |
| 2 | Clean & salvage 9,695 face bricks for reuse | | | | | |
| | a. Labor at 30 bricks / hour | 323 | hours | \$85.00 | \$27,469 | |
| | b. Tool and miscellaneous material | 5% | allow | \$27,469 | \$1,373 | |
| C. | Re-build parapet wall | | | | | |
| 1 | Labor to rebuild parapet | | | | | |
| | a. Masons (4 masons for 15 days) | 480 | hours | \$90.00 | \$43,200 | |
| | b. Laborers (2 laborers fro 15 days) | 240 | hours | \$85.00 | \$20,400 | |
| 2 | Material | | | | | |
| | a. Mortar | 1,215 | c.f. | \$12.00 | \$14,580 | |
| | b. Replacement brick at 20% | 1,940 | each | \$5.00 | \$9,700 | |
| | c. Thru wall flashing | 731 | l.f. | \$25.00 | \$18,275 | |
| | d. 20% replace limestone coping | 146 | l.f. | \$65.00 | \$9,490 | |
| D. | Window / Plaster Parapet | | | | | |
| 1 | 8" CMU back up | 573 | s.f. | \$12.00 | \$6,870 | |
| 2 | Plaster re-coating | 802 | s.f. | \$12.00 | \$9,618 | |
| 3 | Paint plaster - Painting of plaster spandrel panel included it Window Replacement Budget | | | | | |
| E. | Roofing Repair | | | | | |
| 1 | Not Required for Parapet Work - Replacement roof in separate budget | | | | | |
| 2 | Temporary weather protection during parapet work | 731 | l.f. | \$25.00 | \$18,275 | |
| | Subtotal | | | | | \$249,407 |
| F. | General Requirements | | | | | |
| 1 | General Conditions | 10% | | \$249,407 | \$24,941 | |
| 2 | Contractor Overhead and Profit | 6% | | \$274,348 | \$16,461 | |
| 3 | Contingency | 15% | | \$290,809 | \$43,621 | |
| | Total Option 1C | | | | | \$334,430 |

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| No. | Description | Quantity | Unit | Unit Price | Amount | Total |
|-----------|------------------------------------------------------------------------------------------|----------|---------|------------|----------|-----------|
| 4. | Option 1D - Remove Parapet and Install Gravel Stop Fascia at Roof Level | | | | | |
| A. | Mobilization and Protection | | | | | |
| 1 | Plywood roof protection at lower roof | 415 | s.f. | \$4.00 | \$1,660 | |
| 2 | Temporary fencing surrounding work area | 200 | l.f. | \$25.00 | \$5,000 | |
| | a. Relocate fencing as work progresses | 5 | times | \$2,040.00 | \$10,200 | |
| 3 | Erect scaffolding | 30 | set ups | \$410.00 | \$12,300 | |
| 4 | Hoisting and chutes | 5 | weeks | \$2,000.00 | \$10,000 | |
| 5 | Pedestrian barricades at entry | 2 | weeks | \$400.00 | \$800 | |
| 6 | Temporary protection of wall mounted ductwork | 1 | allow | \$1,080.00 | \$1,080 | |
| 7 | Protect exterior fire escape | 1 | allow | \$720.00 | \$720 | |
| 8 | Disposal of debris | 10 | loads | \$500.00 | \$5,000 | |
| B. | Remove parapet wall | | | | | |
| 1 | Remove masonry | | | | | |
| | a. 2 man crew for 100 l.f. / day = 7 days | 112 | hours | \$85.00 | \$9,520 | |
| | b. Tool and miscellaneous material | 5% | allow | \$9,520 | \$476 | |
| 2 | Remove stone coping | 731 | l.f. | \$2.75 | \$2,010 | |
| C. | New Metal Equipment Screen | | | | TBD | |
| D. | Gravel stop and Fascia | | | | | |
| 1 | Wood blocking at window to flush out roof edge | 191 | l.f. | \$12.00 | \$2,290 | |
| 2 | Gravel stop & fascia with Kynar finishes | 731 | l.f. | \$18.00 | \$13,158 | |
| E. | Window / Plaster Parapet | | | | | |
| 1 | 8" CMU back up | 573 | s.f. | \$12.00 | \$6,870 | |
| 2 | Plaster re-coating | 802 | s.f. | \$12.00 | \$9,618 | |
| 3 | Paint plaster - Painting of plaster spandrel panel included in Window Replacement Budget | | | | | |
| F. | Roofing Repair | | | | | |
| 1 | Not Required for Parapet Work - Replacement roof in separate budget | | | | | |
| 2 | Temporary weather protection during parapet work | 731 | l.f. | \$25.00 | \$18,275 | |
| | Subtotal | | | | | \$108,978 |
| G. | General Requirements | | | | | |
| 1 | General Conditions | 10% | | \$108,978 | \$10,898 | |
| 2 | Contractor Overhead and Profit | 6% | | \$119,876 | \$7,193 | |
| 3 | Contingency | 15% | | \$127,068 | \$19,060 | |
| | Total Option 1D | | | | | \$146,128 |