

| ESTIMATING SUMMARY | |
|---|-----------------------------|
| JOB NAME: BETH ISRAEL CONGREGATION - INTERIOR RENOVATIONS | |
| JOB NUMBER: | CUSTOMER: HARMAC |
| MANY STEP FTGS? | NO |
| MANY DIFFERENT B.S.E. | NO |
| ANY SLOPED WALLS? | NO |
| MANY JOGS IN THE WALLS? | NO |
| ANY SPECIAL COATING? | NO |
| CMU FILE SUB BID? | NO |
| ACCESSORIES | YES |
| SITE WORKS? | NO |
| ADDENDUMS? | NO |
| ALTERNATES? | NO |
| DETAILED IN ELEVATION? | NO INFO |
| EXCLUSION? | YES |
| WIRE MESH : ASTM A185 | WWF LAP: 25% |
| DETAILING | |
| FABRICATION | |
| ADDITIONAL COMMENTS: | - QUALIFICATIONS SEE REPORT |

DATE: 12/20/2022

BID DATE: 12/20/2022

SUMMARY:

| REBARS | UNIT | BLACK | EPOXY | TOTAL |
|-------------------|------------|-------------|----------|-------------|
| FOUNDATION | Lbs | 2461 | 0 | 2461 |
| SPREAD FOOTING | Lbs | 233 | | 233 |
| CONCRETE PIER | Lbs | 33 | | 33 |
| CONCRETE WALL | Lbs | 1,236 | | 1236 |
| SLAB ON GRADE | Lbs | 959 | | 959 |
| TOTAL | Lbs | 2461 | 0 | 2461 |

| WIRE MESH | ELEMENT | UNIT | BLACK (25% LAP ADDED) | REMARKS |
|------------------------------------|----------------------|------|-----------------------|---------|
| 6X6-W2.1XW2.1 WWF (5'-0" X 10'-0") | 4" THK SLAB ON GRADE | Sqft | 359 | REF-S-2 |

| ACCESSORIES | ELEMENT | UNIT | BLACK |
|--------------|---------------|------|-------|
| 4.5" Ht CHCU | SLAB ON GRADE | LFT | 33 |

-095 - BETH ISRAEL CONGREGATION

Project Name: BETH ISRAEL CONGREGATION
 291 MAIN STREET
 Waterville, ME 04901 USA



Architect: BECHTEL FRANK ERICKSON
Engineer: TRIPI ENGINEERING SERVICES, LLC
Customer: HARMAC

Job Type: Lump Sum

Estimator: admin
Creation Date: 12/20/2022
Last Modified: 12/20/2022
Status: Complete

Escalation: No

Cover Page Comments:

ESTIMATING NOTES:

1. SPECIFICATIONS: GENERAL NOTES
2. ADDENDUMS: NONE
3. ALTERNATES: NONE
4. MATERIALS:
 - REINFORCING STEEL TO BE (ASTM A615, GR. 60)
 - REINFORCING STEEL TO BE WELDED (ASTM A706, GR. 60)
 - WELDED WIRE FABRIC (ASTM A1064, GR.80)
5. SCOPE OF WORK INCLUSIONS:
 - * FOUNDATION - SPREAD FOOTING, CONCRETE PIER, CONCRETE WALL & SLAB ON GRADE.
6. SPECIFIC EXCLUSIONS:
 - SMOOTH DOWELS.
 - WELDED BARS AND ALL WELDING.
 - MANHOLES, INLETS, ETC., IF ANY
 - STORM SEWER AND ELECTRICAL STRUCTURES NOT LISTED IN QUOTE.
 - MASONRY WALL.
 - PRECAST ELEMENTS.
7. SPECIFIC ASSUMPTIONS: NONE
8. NOTES:
 - WE HAVE USED LAP AS PER THE ACI STANDARDS.

Drawing References:

BID SET:

BUILDING

1. STRUCTURAL DWGS: S-1 TO S-3 (3 SHEETS) DATED 12/05/2022.

095 - BETH ISRAEL CONGREGATION

| Segment Summary | | | | | |
|---------------------------|------------------|------------------|------------------|--------------------|----------------|
| Segment | Rebar Wgt | Plain Wgt | Misc. Wgt | Total (Lbs) | Costing |
| Included Segments: | | | | | |
| FOUNDATION | 2,461 | 0 | 0 | 2,461 | No |
| SPREAD FOOTING | 233 | 0 | 0 | 233 | No |
| CONCRETE PIER | 33 | 0 | 0 | 33 | No |
| CONCRETE WALL | 1,236 | 0 | 0 | 1,236 | No |
| SLAB ON GRADE | 959 | 0 | 0 | 959 | No |

-095 - BETH ISRAEL CONGREGATION**Estimate Defaults**

| | |
|--|-----------------------------------|
| Size Unit: Imperial | Building Code: ACI 1983 |
| Length Unit: Feet - Inches | Concrete Strength: 3000 |
| Weight Unit: Pounds | Lap Table: |
| Soft Hooks: No | Estimating Lap: 48D |
| Seismic Hooks: No | Steel Manufactured In: ANY |
| | Tie Clearance: 0-012 |
| | Spiral Clearance: 0-03 |
| | Spacing Tolerance: 0-00 |
| Rebar Coating: Black | Rebar Grade: 60 |
| Plain Coating: Black | Plain Grade: 60 |
| Number of lap lengths to extend a stock bar before lapping: 1 | |

-095 - BETH ISRAEL CONGREGATION

| Line | Mat | Func | Placing | Grd | Qty | Span | Spcg | Mult | Size | Cls | L1 | L2 | L3 | L4 | L5 | Lap | Stock | Lbs | Notes |
|------|-----|---|---------|-----|-----|-------|------|------|----------|-----|-------|-------|------|------|----|---------|-------|-----|------------------|
| 1 | GI | Segment: FOUNDATION Sub-Segment: SPREAD FOOTING | | | | | | | | | | | | | | | | | |
| 2 | MT | F1 - (3'-0"X3'-0"X1'-0") - (3 EACH) - REF-S-2 | | | | | | | | | | | | | | | | | |
| 3 | TR | BF | | 60 | 5 | | | 3*2 | 16/5 | S | 3-00 | | | | | | | 94 | 5-#5 EW.BOT. |
| 4 | MT | F2 - (2'-6"X3'-0"X1'-0") - (1 EACH) - REF-S-2 | | | | | | | | | | | | | | | | | |
| 5 | TR | BF | | 60 | 5 | | | 1 | 16/5 | S | 3-00 | | | | | | | 16 | 5-#5 LW.BOT. |
| 6 | TR | BF | | 60 | 5 | | | 1 | 16/5 | S | 2-09 | | | | | | | 14 | 5-#5 SW.BOT. |
| 7 | TR | BF | | 60 | | 30-00 | 1-06 | 1 | 16/5 | S | 1-06 | | | | | | | 33 | #5 @18" DRILL |
| 8 | TR | BF | | 60 | 4 | | | 1 | 25/8 | H | 4-09 | 1-00 | 1-04 | | | | | 76 | 4-#8 D/V. |
| 9 | GI | Segment: FOUNDATION Sub-Segment: CONCRETE PIER | | | | | | | | | | | | | | | | | |
| 10 | MT | P1 - (2'-0"X2'-0"X4'-9") - (1 EACH) - REF-S-2 | | | | | | | | | | | | | | | | | |
| 11 | TR | BF | | 60 | | 4-09 | 1-00 | 1 | 10/3 | L | 8-08 | | | | | | | 20 | #3 @12" TIES |
| 12 | TR | BF | | 60 | 4 | | | 1 | 10/3 | L | 8-08 | | | | | | | 13 | 4-#3 TIES |
| 13 | GI | Segment: FOUNDATION Sub-Segment: CONCRETE WALL | | | | | | | | | | | | | | | | | |
| 14 | MT | 10" TK WALL (46 LFT) - REF-3/S-3 | | | | | | | | | | | | | | | | | |
| 15 | TR | BF | | 60 | | 46-00 | 1-06 | 2 | 16/5 | S | 4-09 | | | | | | | 317 | #5 @18" EF.VERT. |
| 16 | TR | BF | | 60 | | 4-09 | 1-00 | 1 | 13/4 | S | 46-00 | 2-06 | | | | | | 194 | #5 @12" HORIZ. |
| 17 | TR | BF | | 60 | 1 | | | 2 | 16/5 | S | 46-00 | 2-06 | | | | | | 101 | 1-#5 T&B. |
| 18 | TR | BF | | 60 | | 4-09 | 1-00 | 4 | 16/5 | H | 5-00 | | | | | | | 125 | #5 @12" COR. |
| 19 | TR | BF | | 60 | 1 | | | 2*4 | 16/5 | H | 5-00 | | | | | | | 42 | 1-#5 T&B.COR. |
| 20 | MT | 10" TK WALL (10 LFT) - REF-3/S-3 | | | | | | | | | | | | | | | | | |
| 21 | TR | BF | | 60 | | 10-00 | 1-06 | 2 | 16/5 | S | 5-01 | | | | | | | 85 | #5 @18" EF.VERT. |
| 22 | TR | BF | | 60 | | 5-01 | 1-00 | 1 | 16/5 | S | 10-00 | | | | | | | 73 | #5 @12" HORIZ. |
| 23 | TR | BF | | 60 | 1 | | | 2 | 16/5 | S | 10-00 | | | | | | | 21 | 1-#5 T&B.CONT. |
| 24 | TR | BF | | 60 | | 5-01 | 1-00 | 2 | 16/5 | H | 5-00 | | | | | | | 73 | #5 @12" COR. |
| 25 | TR | BF | | 60 | 1 | | | 2*2 | 16/5 | H | 5-00 | | | | | | | 21 | 1-#5 T&B.COR. |
| 26 | MT | 10" TK WALL (5 LFT) - REF-S-3 | | | | | | | | | | | | | | | | | |
| 27 | TR | BF | | 60 | | 5-00 | 1-06 | 2 | 16/5 | S | 4-03 | | | | | | | 44 | #5 @18" EF.VERT. |
| 28 | TR | BF | | 60 | | 4-03 | 1-00 | 1 | 16/5 | H | 5-00 | 1-00 | 1-00 | | | | | 44 | #5 @12" HORIZ. |
| 29 | TR | BF | | 60 | 1 | | | 2 | 16/5 | H | 5-00 | 1-00 | 1-00 | | | | | 15 | 1-#5 T&B.CONT. |
| 30 | MT | 10" TK WALL (6 LFT) - REF-S-3 | | | | | | | | | | | | | | | | | |
| 31 | TR | BF | | 60 | | 6-00 | 1-06 | 2 | 16/5 | S | 2-04 | | | | | | | 24 | #5 @18" EF.VERT. |
| 32 | TR | BF | | 60 | | 2-04 | 1-00 | 1 | 16/5 | H | 6-00 | 1-00 | 1-00 | 1-00 | | | | 38 | #5 @12" HORIZ. |
| 33 | TR | BF | | 60 | 1 | | | 2 | 16/5 | S | 6-00 | 3-00 | | | | | | 19 | 1-#5 T&B.CONT. |
| 34 | GI | Segment: FOUNDATION Sub-Segment: SLAB ON GRADE | | | | | | | | | | | | | | | | | |
| 35 | MT | 6" TK MAT (154 SQ.FT) - REF-3/S-3 | | | | | | | | | | | | | | | | | |
| 36 | TR | RA | | 60 | | 1-00 | 1-00 | 1 | 16/5 | S | 11-00 | 14-00 | | | | 48D | 40-00 | 347 | #5 @12" EW. |
| 37 | TR | BF | | 60 | 3 | | | 1 | 16/5 | S | 66-00 | 2-06 | | | | | | 214 | 3-#5 CONT. |
| 38 | TI | LFT | | 33 | | 1 | | | CHCU 4.5 | | | | | | | | | 0 | 6" TK MAT |
| 39 | MT | 10" TK WALL (46 LFT) - REF-3/S-3 | | | | | | | | | | | | | | | | | |
| 40 | TR | BF | | 60 | | 46-00 | 1-06 | 1 | 16/5 | H | 4-06 | | | | | | | 150 | #5 @18" DWLS |
| 41 | MT | 10" TK WALL (10 LFT) - REF-3/S-3 | | | | | | | | | | | | | | | | | |
| 42 | TR | BF | | 60 | | 10-00 | 1-06 | 1 | 16/5 | H | 4-06 | | | | | | | 38 | #5 @18" DWLS |
| 43 | MT | 10" TK WALL (5 LFT) - REF-S-3 | | | | | | | | | | | | | | | | | |
| 44 | TR | BF | | 60 | | 5-00 | 1-06 | 1 | 16/5 | H | 4-06 | | | | | | | 23 | #5 @18" DWLS |
| 45 | MT | 10" TK WALL (6 LFT) - REF-S-3 | | | | | | | | | | | | | | | | | |
| 46 | TR | BF | | 60 | | 6-00 | 1-06 | 1 | 16/5 | H | 2-04 | 2-00 | | | | | | 23 | #5 @18" DWL. |
| 47 | MT | 4" TK SLAB (287 SQ.FT) - REF-S-2 | | | | | | | | | | | | | | | | | |
| 48 | TI | SQ.FT | | 287 | | 1 | | | MESH | | | | | | | 25.000% | | 0 | 4" TK SOG |
| 49 | TR | BF | | 60 | | 79-00 | 1-06 | 1 | 13/4 | S | 1-06 | | | | | | | 54 | #4 @18" D&G |
| 50 | TR | BF | | 60 | | 3-00 | 1-00 | 1 | 16/5 | H | 2-06 | 9-00 | | | | | | 48 | #5 @12" LW. |
| 51 | TR | BF | | 60 | | 8-09 | 1-00 | 1 | 16/5 | S | 3-09 | | | | | | | 39 | #5 @12" SW. |
| 52 | TR | BF | | 60 | 1 | | | 6 | 16/5 | S | 3-09 | | | | | | | 23 | 1-#5 NOSING BAR |

-095 - BETH ISRAEL CONGREGATION

Segment: FOUNDATION

Total for SPREAD FOOTING

**** Rebar Weight Summary (Lbs) ****

| Size | Total | Straight | HEAVY | LIGHT | Stock Wgt |
|-----------------------|------------|------------|-----------|----------|-----------|
| ** Grade 60, Black ** | | | | | |
| 16/5 | 157 | 157 | 0 | 0 | 0 |
| 25/8 | 76 | 0 | 76 | 0 | 0 |
| | <u>233</u> | <u>157</u> | <u>76</u> | <u>0</u> | <u>0</u> |

Total for CONCRETE PIER

**** Rebar Weight Summary (Lbs) ****

| Size | Total | Straight | HEAVY | LIGHT | Stock Wgt |
|-----------------------|-----------|----------|----------|-----------|-----------|
| ** Grade 60, Black ** | | | | | |
| 10/3 | 33 | 0 | 0 | 33 | 0 |
| | <u>33</u> | <u>0</u> | <u>0</u> | <u>33</u> | <u>0</u> |

Total for CONCRETE WALL

**** Rebar Weight Summary (Lbs) ****

| Size | Total | Straight | HEAVY | LIGHT | Stock Wgt |
|-----------------------|--------------|------------|------------|----------|-----------|
| ** Grade 60, Black ** | | | | | |
| 13/4 | 194 | 194 | 0 | 0 | 0 |
| 16/5 | 1,042 | 684 | 358 | 0 | 0 |
| | <u>1,236</u> | <u>878</u> | <u>358</u> | <u>0</u> | <u>0</u> |

Total for SLAB ON GRADE

**** Rebar Weight Summary (Lbs) ****

| Size | Total | Straight | HEAVY | LIGHT | Stock Wgt |
|-----------------------|------------|------------|------------|----------|------------|
| ** Grade 60, Black ** | | | | | |
| 13/4 | 54 | 54 | 0 | 0 | 0 |
| 16/5 | 906 | 624 | 282 | 0 | 215 |
| | <u>960</u> | <u>678</u> | <u>282</u> | <u>0</u> | <u>215</u> |

**** Miscellaneous Item Summary ****

** Undefined Item Class - 'BAR SUPPORT' **

| | | | | | | | | | | |
|----------|--------------|------------|---|------------|---|-------------|------|------|-------|-------|
| CHCU 4.5 | 4.5" HT CHCU | 33.000 LFT | = | 33.000 LFT | @ | 0.000 / LFT | = \$ | 0.00 | 0 Lbs | |
| Subtotal | | | | | | | | = \$ | 0.00 | 0 Lbs |

** Undefined Item Class - 'WIRE MESH' **

| | | | | | | | | | | |
|----------|----------------------------------|---------------|---|---------------|---|---------------|------|------|-------|-------|
| MESH | 6X6-W2.1XW2.1 WWF (5'-0"X10'-0") | 358.750 SQ.FT | = | 359.000 SQ.FT | @ | 0.000 / SQ.FT | = \$ | 0.00 | 0 Lbs | |
| Subtotal | | | | | | | | = \$ | 0.00 | 0 Lbs |

| | | | | | | | | | | |
|--------------------|--|--|--|--|--|--|--|-------------|-------------|--------------|
| Grand Total | | | | | | | | = \$ | 0.00 | 0 Lbs |
|--------------------|--|--|--|--|--|--|--|-------------|-------------|--------------|

Total for Segment: FOUNDATION

****** Rebar Weight Summary (Lbs) ******

| Size | Total | Straight | HEAVY | LIGHT | Stock Wgt |
|------------------------------|--------------|--------------|------------|-----------|------------|
| ** Grade 60, Black ** | | | | | |
| 10/3 | 33 | 0 | 0 | 33 | 0 |
| 13/4 | 248 | 248 | 0 | 0 | 0 |
| 16/5 | 2,105 | 1,465 | 640 | 0 | 215 |
| 25/8 | 76 | 0 | 76 | 0 | 0 |
| | <u>2,462</u> | <u>1,713</u> | <u>716</u> | <u>33</u> | <u>215</u> |

****** Miscellaneous Item Summary ******

**** Undefined Item Class - 'BAR SUPPORT' ****

| | | | | | | | | | | |
|-----------------|--------------|------------|---|------------|---|-------------|------|------|-------|-------|
| CHCU 4.5 | 4.5" HT CHCU | 33.000 LFT | = | 33.000 LFT | @ | 0.000 / LFT | = \$ | 0.00 | 0 Lbs | |
| Subtotal | | | | | | | | = \$ | 0.00 | 0 Lbs |

**** Undefined Item Class - 'WIRE MESH' ****

| | | | | | | | | | | |
|-----------------|----------------------------------|---------------|---|---------------|---|---------------|------|------|-------|-------|
| MESH | 6X6-W2.1XW2.1 WWF (5'-0"X10'-0") | 358.750 SQ.FT | = | 359.000 SQ.FT | @ | 0.000 / SQ.FT | = \$ | 0.00 | 0 Lbs | |
| Subtotal | | | | | | | | = \$ | 0.00 | 0 Lbs |

| | | | | | | | | | | |
|--------------------|--|--|--|--|--|--|--|------|------|-------|
| Grand Total | | | | | | | | = \$ | 0.00 | 0 Lbs |
|--------------------|--|--|--|--|--|--|--|------|------|-------|

-095 - BETH ISRAEL CONGREGATION

Estimate Totals

****** Rebar Weight Summary (Lbs) ******

| Size | Total | Straight | HEAVY | LIGHT | Stock Wgt |
|------------------------------|--------------|--------------|------------|-----------|------------|
| ** Grade 60, Black ** | | | | | |
| 10/3 | 33 | 0 | 0 | 33 | 0 |
| 13/4 | 248 | 248 | 0 | 0 | 0 |
| 16/5 | 2,105 | 1,465 | 640 | 0 | 215 |
| 25/8 | 76 | 0 | 76 | 0 | 0 |
| | <u>2,462</u> | <u>1,713</u> | <u>716</u> | <u>33</u> | <u>215</u> |

-095 - BETH ISRAEL CONGREGATION

Estimate Totals

****** Miscellaneous Item Summary ********** Undefined Item Class - 'BAR SUPPORT' ****

| | | | | | | | | | |
|----------|--------------|------------|---|------------|---|-------------|------|------|-------|
| CHCU 4.5 | 4.5" HT CHCU | 33.000 LFT | = | 33.000 LFT | @ | 0.000 / LFT | = \$ | 0.00 | 0 Lbs |
|----------|--------------|------------|---|------------|---|-------------|------|------|-------|

| | | | | | | | | | |
|-----------------|--|--|--|--|--|--|------|------|-------|
| Subtotal | | | | | | | = \$ | 0.00 | 0 Lbs |
|-----------------|--|--|--|--|--|--|------|------|-------|

**** Undefined Item Class - 'WIRE MESH' ****

| | | | | | | | | | |
|------|----------------------------------|---------------|---|---------------|---|---------------|------|------|-------|
| MESH | 6X6-W2.1XW2.1 WWF (5'-0"X10'-0") | 358.750 SQ.FT | = | 359.000 SQ.FT | @ | 0.000 / SQ.FT | = \$ | 0.00 | 0 Lbs |
|------|----------------------------------|---------------|---|---------------|---|---------------|------|------|-------|

| | | | | | | | | | |
|-----------------|--|--|--|--|--|--|------|------|-------|
| Subtotal | | | | | | | = \$ | 0.00 | 0 Lbs |
|-----------------|--|--|--|--|--|--|------|------|-------|

| | | | | | | | | | |
|--------------------|--|--|--|--|--|--|------|------|-------|
| Grand Total | | | | | | | = \$ | 0.00 | 0 Lbs |
|--------------------|--|--|--|--|--|--|------|------|-------|