



| LOCATION | MIN. COVER |
|---------------------------------------|------------|
| FOOTINGS AGAINST EARTH | 3" CLR |
| BOTTOM | 2" CLR |
| TOP | 2" CLR |
| EXPOSED TO EARTH (#5 & SMALLER) | 1 1/2" CLR |
| EXPOSED TO EARTH (#6 & LARGER) | 2" CLR |
| COLUMN, PIER & BUTTRESS (MAIN REINF.) | 2" CLR |
| COLUMN (TIES, MAIN REINF.) | 1 1/2" CLR |
| BEAMS (STIRRUPS, MAIN REINF.) | 1 1/2" CLR |
| SLABS, WALLS, JOISTS | 1 1/2" CLR |

| FOR PIER & BUTTRESS LAP SCHEDULE | | | FOR BEAM & FOOTING LAP SCHEDULE | | |
|----------------------------------|-----|-----|---------------------------------|------|--------|
| SIZE | LD | LAP | SIZE | TOP | OTHERS |
| #3 | 10" | 13" | #3 | 23" | 17" |
| #4 | 13" | 17" | #4 | 30" | 23" |
| #5 | 16" | 21" | #5 | 37" | 29" |
| #6 | 19" | 25" | #6 | 45" | 36" |
| #7 | 27" | 36" | #7 | 64" | 50" |
| #8 | 31" | 47" | #8 | 73" | 56" |
| #9 | 35" | 48" | #9 | 82" | 63" |
| #10 | 39" | 51" | #10 | 93" | 71" |
| #11 | 43" | 56" | #11 | 102" | 78" |

| FOOTING SCHEDULE | | | | | |
|------------------|----------------|-------|--------------------|-----------|-----------|
| TYPE | FOOTING SIZE | | BOTTOM REINFORCING | | F'C (KSI) |
| | LENGTH x WIDTH | DEPTH | LONG WAY | SHORT WAY | |
| F7 | 7'-0"x7'-0" | 2'-6" | 11 - #6 | 11 - #6 | 5 |
| F8 | 8'-0"x8'-0" | 2'-6" | 11 - #7 | 11 - #7 | 5 |
| F9 | 9'-0"x9'-0" | 2'-6" | 15 - #7 | 13 - #7 | 5 |
| F11 | 11'-0"x11'-0" | 3'-0" | 19 - #7 | 19 - #7 | 5 |
| F15 | 15'-0"x15'-0" | 3'-0" | 30 - #8 | 30 - #8 | 10 |
| F16 | 16'-0"x16'-0" | 3'-6" | 30 - #9 | 30 - #9 | 10 |
| F17 | 17'-0"x17'-0" | 3'-6" | 32 - #9 | 32 - #9 | 10 |
| F18 | 18'-0"x18'-0" | 4'-0" | 38 - #9 | 38 - #9 | 10 |
| F20 | 20'-0"x20'-0" | 4'-0" | 38 - #10 | 38 - #10 | 10 |
| F20A | 20'-0"x20'-0" | 4'-6" | 38 - #10 | 38 - #10 | 10 |
| F21 | 21'-0"x21'-0" | 4'-0" | 40 - #10 | 40 - #10 | 10 |
| F21A | 21'-0"x21'-0" | 4'-0" | 40 - #10 | 40 - #10 | 10 |

| FOOTING SCHEDULE | | | | | |
|------------------|---------------|-------|----------|-----------|-----------|
| TYPE | FOOTING SIZE | DEPTH | LONG WAY | SHORT WAY | F'C (KSI) |
| F22 | 22'-0"x22'-0" | 4'-0" | 44 - #10 | 44 - #10 | 10 |
| F116 | 11'-0"x6'-0" | 2'-6" | 12 - #9 | 10 - #7 | 5 |
| F116 | 14'-0"x6'-0" | 2'-6" | 12 - #10 | 16 - #7 | 5 |
| F157 | 15'-0"x7'-0" | 2'-6" | 16 - #10 | 18 - #7 | 5 |
| F188 | 18'-0"x7'-0" | 2'-6" | 24 - #11 | 16 - #8 | 5 |
| F1410 | 14'-0"x10'-0" | 3'-0" | 16 - #10 | 14 - #8 | 5 |
| F2010 | 20'-0"x10'-0" | 3'-0" | 30 - #11 | 16 - #9 | 5 |
| F2030 | 20'-0"x30'-0" | 4'-6" | 20 - #10 | 40 - #10 | 10 |
| F2410 | 24'-0"x10'-0" | 3'-0" | 24 - #11 | 20 - #9 | 5 |
| WF4 | 4'-0"x4'-0" | 2'-6" | 6 - #6 | #6@2' | 5 |

SPREAD FOOTING & PIER REINFORCEMENT DETAILS

REF-FQ-100 (01: 08/28/19)
SCALE = 1/16"=1'-0"

| PIER SCHEDULE | | | | |
|---------------|-----------|-------------|------------|---------------|
| TYPE | PIER SIZE | REINFORCING | | REMARK |
| | | VERTICAL | HORIZONTAL | |
| P1 | 36"x36" | 24 - #7 | #3 @ 14" | |
| P2 | 48"x48" | 24 - #9 | #3 @ 16" | |
| P3 | 36"x36" | 24 - #7 | #4 @ 12" | 1.3 LD SPLICE |
| P4 | 48"x48" | 24 - #9 | #4 @ 12" | 1.3 LD SPLICE |
| B1 | 36"x36" | 24 - #7 | #3 @ 14" | |
| B2 | 24"x36" | 16 - #7 | #3 @ 14" | |
| B3 | 36"x24" | 16 - #7 | #3 @ 14" | |

Abbreviations:
 I.F. = Inside Face
 O.F. = Outside Face
 E.F. = Each Face
 DWL = Dowel
 V = Vertical
 H = Horizontal
 C-B = Corner Bar
 S.DWL = Slab Dowel
 E.W. = Each Way
 B/BOT = Bottom
 T = Top
 MDWL = Masonry Dowel
 B.B. = Bond Beam
 ALT. = Alternate
 Approx. = Approximate

OPNG = Opening
 BAL = Balance
 BTW = Between
 C-J = Construction Joint
 CLR = CLEARANCE
 CMU = Concrete Masonry Unit
 CONT. = Continuous
 EA = Each
 Elev. = Elevation
 EMB = Embedment
 SW = Short Way
 LW = Long Way
 (BL) = Black Bar
 (EP) = Epoxy Bar
 (GA) = Galvanized

NOTICE

Shortages, improper fabrication or claims for any other reason must be reported to this company within a period of 15 days of delivery. This company reserves the right to field inspect prior to replacement or reconditioning of nonconforming material, and will not honor charges for work done in the field without specific authorization from this company.

REINFORCING STEEL PLACING DRAWINGS ONLY USE IN CONJUNCTION WITH CONTRACT DRAWINGS & SPECIFICATIONS. ELEVATIONS & DIMENSIONS SHOWN ON THIS DRAWING ARE FOR DETAILING PURPOSES ONLY AND SHOULD NOT BE USED FOR CONSTRUCTION UNLESS VERIFIED BY ENGINEER OR CONTRACTOR.

| REVISION MARK | REVISION DETAILS | DATE |
|---------------|------------------|------------|
| 0 | FOR APPROVAL | 02/28/2020 |

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|----------------|---|
| PROJECT | JFK TERMINAL LOGISTICS CENTER |
| LOCATION | JAMAICA, NY, 11430 |
| ARCHITECT | CRAFT ARCHITECTS |
| ENGINEER | DESIMONE STRUCTURAL ENGINEERS |
| CUSTOMER | BENCHMARK CONTRACTING |
| DRAWN BY: | KKV/MRS |
| DATE: | 02/28/2020 |
| REVIEWED BY: | T/L |
| JOB NO.: | 20015 |
| DRAWING TITLE: | SPREAD FOOTING & PIER REINFORCEMENT DETAILS |
| DRAWING NO.: | R01 |