



1 DIVISION 0

Introduction and Calibration Factors: includes the following:

Location (Calibration) Factors - International values compared to Washington D.C. (Base of 1.00). Calibrations in this application are used to adjust the unit prices / schedule of rates depicted in the following Divisions 1-17.

188 # International Cities Location / Calibration Factors.

General Conversion Values - Imperial to Metric Units.

Import Duties General Sales Tax / Value. Added Tax / Consumption Tax.

284 # USA Location (Calibration) Factors.

Detailed Design / Engineering / Architectural and CM Fees 51 # Facility Types. Union Labor Costs.

USA and Canada State & Province Sales Tax / GST. Inflation Cost Indexes.

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27 DIVISION 00

Cost Models / Cost Benchmarks (20 Number) includes cost and quantity data on the following:

Power Station Cost Model.

Crude Oil Distillation Complex.

High Rise Apartment Building Cost Model.

Waste Water Treatment Cost Model.

EPCM Home Office Billing Rate Sheet.

Consumer Products Facility.

Steel Production Cost Model.

Beverage Production Facility Cost Model.

Petro – Chemical Cost Model.

78 # Engineering / Construction Cost Benchmarks.

Class A Office Building

UK Pharmaceutical Facility

Clean Warehouse

Regional Airport

Shopping Mall

Clean Warehouse Facility



67 DIVISION 01

General Requirements / General Conditions / Preliminaries:

includes cost data on the following:

Rules of thumb

Insurance Costs

Protection of Completed Work

Scaffolding

Temporary Utilities, Structures & Fences

Permits

Testing / Inspection

Surveys

Bonds

Site Staff / Field Personnel

Construction Equipment Costs / Rental

Temporary Construction Items

02

89 DIVISION 02

Site Construction: includes schedule of rates for:

Demolition (including asbestos)

Excavation

Rock removal

Hardcore / Stone

Shoring

Planking & Strutting / Sheet Piling

Foundation Piling

Utilities

Miscellaneous Site Improvements

Paving

Concrete Curbing

Fencing

Site Lighting

Marine Work

Underground Storage Tanks



109 DIVISION 03

Concrete Work: includes schedule of rates for:

Concrete Formwork Reinforcement Precast Concrete Grouting

04

135 DIVISION 04

Masonry: includes schedule of rates for:

Brickwork Masonry Refractory

05

145 DIVISION 05

Metals: includes schedule of rates for: Structural Steel Metal Joists Metal Framing Miscellaneous Iron Metal Decking

06

163 DIVISION 06

Wood and Plastics: includes schedule of rates for: Rough Carpentry Finish Carpentry Carpentry Specialties



173 DIVISION 07

Thermal and Moisture Protection: includes schedule of rates for: Damp proofing and Waterproofing Thermal Protection Roofing Systems Caulking & Sealants

80

187 DIVISION 08

Doors and Windows: includes schedule of rates for:

Wood and Plastic Doors

Metal Doors and Frames

Windows

Glazing / Glazed Curtain Walls

Hardware

09

195 DIVISION 09

Finishes: includes schedule of rates for:

Plaster and Gypsum Board

Tile

Terrazzo

Ceilings

Flooring

Wall Finishes

Acoustical Treatment

Painting and Coatings

10

207 DIVISION 10

Specialties: includes schedule of rates for:

Visual Display Boards

Compartments and Cubicles

Louvers and Vents

Wall and Corner Guards

Miscellaneous Facility Specialties



215 DIVISION 11

Equipment: includes schedule of rates for:
Maintenance Equipment
Loading Dock Equipment
Industrial and Process Equipment
Laboratory Equipment
Material Handling Equipment

12

227 DIVISION 12

Furnishings: includes schedule of rates for: Furniture Manufactured Casework

13

231 DIVISION 13

Special Construction: includes schedule of rates for: Pre-Engineered Buildings & Structures Radiation Protection Storage Tanks Security Access and Surveillance

14

239 DIVISION 14

Conveying Systems: includes schedule of rates for: Elevators Escalators and Moving Walks Hoists and Cranes



247 DIVISION 15

Mechanical Work: includes schedule of rates for:

Building Services Piping

Plumbing Fixtures

Process Piping

Fire Protection Piping

Heating, Ventilating & Air Conditioning Equipment

Ductwork

Insulation

16

317 DIVISION 16

Electrical Work: includes schedule of rates for:

Electrical Equipment / Transformers

Cable / Control wire

Conduit

Cable tray

Communications

Instrumentation and Controls

17

349 DIVISION 17

Process Equipment / Major Equipment: includes schedule of rates for:

Agitators

Air Handlers

Boilers

Chillers

Compressors

Condensers

Conveyors

Cooling Towers

Ductwork

Heat Exchangers

Pumps

Tanks

387 ABOUT THE FIRM



Cost Models and Cost Benchmarks

The following tables and benchmarks are provided to give the reader an appreciation of specific industrial / commercial construction costs that could be used to supplement the following Division(s) 1 - 17, schedule of rates data.

(1) MAJOR CONSTRUCTION ACTIVITIES

See chart below.

| ACTIVITY | COST OR MAN HOUR UNIT |
|---|---|
| ield labor union skilled worker | \$70- \$114 / Hour |
| Ditto non union | \$57 - \$86 / Hour |
| For unskilled labor application multiply above by | 0.75 |
| Construction Manager / Clerk of the Works | \$88 - \$144/ Hour |
| Demolition | 5% - 35% of the cost of new work |
| Rock excavation - loose / rippable, hours per CY / M3 | 1.0 - 2.5 CY & 1.3 – 3.3 M3 |
| Ditto needing jackhammers, hours per CY / M3 | 2.0 - 5.0 CY & 2.6 - 6.5 M3 |
| Machine excavation, hours per CY / M3 | 0.2 - 0.4 CY & 0.26 - 0.5 M3 |
| Hand excavation (Loose non stiff), hours per CY / M3 | 1.5 - 2.0 CY & 2.0 – 2.6 M3 |
| Ditto stiff / hard material, hours per CY / M3 | 2.25 - 3.25 CY & 2.9 – 4.25 M3 |
| Concrete foundations (inc. excavation, formwork / Rebar / | 12 - 24 CY & 15.7 – 31 M3 |
| nstallation etc.) Hours per CY / M3 | |
| L" diameter conduit | 0.12 - 0.14 / MH per LF & 0.39 - 0.45 M |
| 2" ditto | 0.14 - 0.16 / MH per LF & 0.45 - 0.52 M |
| Bricks (800 – 1,000 per day is considered a good production rate) | 500 - 750 per day |
| Fabricate & erect C.S. piping (2") hours | 1.25 - 1.85 / L.F & 4.1 - 6.1 M. |
| Fabricate & erect C.S. piping (6") hours | 2.4 - 3.0 / L.F & 7.87 - 9.84 M. |
| abricate pipe offsite | 20 - 40 hours / ton |
| Frect piping (2" and above) | 100 - 200 hours / ton |
| Average Fabricate & erect | 150 - 200 hours / ton |
| 4" diameter production weld (schedule 160) | 2.0 - 2.50 hrs: |
| 5" ditto | 2.75 - 3.5 hrs: |
| Average cost per pound / kg to fabricate and erect piping system | \$12.00 per pound and \$26.40 kg |
| pased on Average cost \$19,000 - \$29,000 per ton, average | · |
| \$22,750 per ton | |
| Structural steel erection hours | 8 - 25 / ton |



(20) BUS & HEAVY TRUCK TIRE PRODUCTION FACILITY - INDIANA USA 194,560 SF MID-2022 COST BASIS 10 ACRES SITE ADJACENT TO EXISTING PRODUCTION FACILITY

| # | SCOPE OF WORK - DESCRIPTION | \$ COST | COST / SF |
|----|--|------------|-----------|
| 1 | General Conditions / Preliminaries / Site Offices - Mob - Demob | 4,387,500 | 22.55 |
| 2 | Demolition of existing structure | 105,000 | 0.54 |
| 3 | Site works, Earthworks, Excavations, Utility Services, Site Roads, Ponds, Wells, Fencing & Employee Parking area | 3,659,300 | 18.81 |
| 4 | Facility Foundations - Concrete, Formwork, Rebar, Polished Floor | 2,878,200 | 14.79 |
| 5 | Structural Steel / Micl steel | 6,770,840 | 34.80 |
| 6 | Finish & Rough Carpentry - Cabinets | 158,202 | 0.81 |
| 7 | Exterior Enclosure (Inc. Metal Siding, Roof, Exterior Windows & Doors) 6 Truck Loading Docks | 5,703,260 | 29.31 |
| 8 | Internal Office Partitions & Doors, Finishes, Toilets Stalls, Reception Area & 7 Offices - Cubicles & 2 Conference Room - Security - Medical Station - Truck Driver waiting area | 1,860,300 | 9.56 |
| 9 | Re-Furbished Production Equipment from other location | 852,000 | 4.38 |
| 10 | Production Equipment / Support items (Tanks, Blenders, Extruders, Vats, Pumps, Molds, Heat Exchangers, Forklifts, Charging Stations) | 13,297,500 | 68.35 |
| 11 | Mechanical Systems - Plumbing, Process Pipe, HVAC, AHU's, Natural Gas, Fire Protection, Toiles & Safety Showers | 8,222,175 | 42.26 |
| 12 | Electrical / Instrumentation, Control Room, Bar Coding, CCTV's Security Systems & Fire Alarms | 7,041,986 | 36.19 |
| 13 | Start Up & Commissioning | 209,391 | 1.08 |
| 14 | BAR Insurance, Bonds, Fees & OH&P | 3,395,560 | 17.45 |
| 15 | Contingency / Management Reserve | 5,500,000 | 28.27 |
| 16 | S/T | 64,041,214 | 329.16 |
| 17 | Detailed Design & EPC HO Support / Procurement activities | 6,049,999 | 31.10 |
| 18 | Project / Construction Management & Project Controls | 3,412,875 | 17.54 |
| 19 | Owner Front End Design & Oversight | 775,000 | 3.98 |
| 20 | TOTAL FACILITY COST | 74,279,088 | 381.78 |



| | 2023 Division 1 - General Requirements | | | | Construction | |
|-----|--|------|----------|-----------|--------------|--------|
| | / Preliminaries - Union Site | Unit | Material | Labor | Equipment | Total |
| | Concrete pump 100' reach 4" dia line (60 - 120 CY / hour) | HOUR | | Excl Oper | 179.62 | 179.62 |
| 171 | Concrete pump 120' reach 6" dia line (60 - 120 CY / hour) | HOUR | | Excl Oper | 204.98 | 204.98 |
| 172 | Concrete pump 140' reach 6" dia line (60 - 120 CY / hour) | HOUR | | Excl Oper | 233.51 | 233.51 |
| | Concrete cutting / sawing , self propelled up to 6" deep gasoline / 2 - stoke | HOUR | | Excl Oper | 11.14 | 11.14 |
| | Concrete core drill (1" - 4" dia holes), vertical and horizontal, 25 HP, gasoline | HOUR | | Excl Oper | 24.69 | 24.69 |
| 175 | Crane Crawler 10 Ton | HOUR | | Excl Oper | 170.51 | 170.51 |
| | Crane Crawler 20 Ton | HOUR | | Excl Oper | 219.34 | 219.34 |
| 177 | Crane Crawler 50 Ton | HOUR | | Excl Oper | 312.22 | 312.22 |
| 178 | Crane Crawler 100 Ton | HOUR | | Excl Oper | 497.73 | 497.73 |
| | Crane Crawler / dragline - clamshell, 3.5 CY / 3 M3, 120' boom length | HOUR | | Excl Oper | 180.35 | 180.35 |
| 180 | Crane Crawler / dragline - clamshell, 5 CY / 4 M3, 140' boom length | HOUR | | Excl Oper | 232.42 | 232.42 |
| 181 | Crane hydraulic rough terrain 10 Ton - 50' | HOUR | | Excl Oper | 47.05 | 47.05 |
| 182 | Crane hydraulic rough terrain 15 Ton - 60' | HOUR | | Excl Oper | 48.46 | 48.46 |
| | Crane hydraulic rough terrain 20 Ton - 70' Boom | HOUR | | Excl Oper | 72.20 | 72.20 |
| | Crane, crawler, 25 Ton, 70' Boom | HOUR | 7 | Excl Oper | 49.45 | 49.45 |
| 185 | Crane, crawler, 50 Ton, 100' Boom | HOUR | | Excl Oper | 78.38 | 78.38 |
| 186 | Crane, crawler, 100 Ton, 200' Boom | HOUR | | Excl Oper | 163.22 | 163.22 |
| 187 | Crane, crawler, 150 Ton, 250' Boom | HOUR | | Excl Oper | 406.27 | 406.27 |
| 188 | Crusher (stone / rock) plant 100 Ton / hour | HOUR | | Excl Oper | 120.60 | 120.60 |
| 189 | Cutting Torch Tools oxy-acetylene 100' hose | HOUR | | Excl Oper | 6.41 | 6.41 |
| 190 | D-11N crawler / tractor / dozer / ripper | HOUR | | Excl Oper | 263.41 | 263.41 |
| 191 | D-10R crawler / tractor / dozer / ripper | HOUR | | Excl Oper | 232.42 | 232.42 |
| 192 | D-9R - 9N crawler / tractor / dozer / ripper | HOUR | | Excl Oper | 181.86 | 181.86 |
| 193 | D-8R crawler / tractor / dozer / ripper | HOUR | | Excl Oper | 167.79 | 167.79 |
| 194 | D-6R crawler / tractor / dozer / ripper | HOUR | | Excl Oper | 131.17 | 131.17 |
| 195 | D-4GXL crawler / tractor / dozer / ripper | HOUR | | Excl Oper | 56.19 | 56.19 |
| 196 | Dragline bucket 3.5 CY / 3 M3 incl chains & cables | HOUR | | Excl Oper | 9.32 | 9.32 |



| | 2023 - Division 2 - Site Construction - | | | | | |
|-----|--|------|----------|-------|-----------------|--------|
| | Union | Unit | Material | Labor | Const Equipt | Total |
| 357 | 2" sub base for road / paved area | SY | 2.52 | 2.70 | 0.17 | 5.40 |
| | including rolling | | | | | |
| 358 | 4" sub base for road / paved area | SY | 3.58 | 3.83 | 0.25 | 7.66 |
| | including rolling | | | | | |
| 359 | 6" sub base for road / paved area | SY | 4.68 | 4.99 | 0.32 | 9.99 |
| | including rolling | | | | | |
| | Sealer / Tack coat 2 applications | SY | 0.51 | 0.41 | 0.03 | 0.95 |
| | Stone for parking area 4" thick, rolled | SY | 6.09 | 0.57 | 0.04 | 6.70 |
| | Stone for parking area 6" thick, rolled | SY | 7.76 | 0.74 | 0.05 | 8.54 |
| 363 | Imported engineered fill, sub base rolled in 12" lifts (Minimum) | TON | 8.15 | 7.03 | 1.06 | 16.25 |
| 364 | Imported engineered fill, sub base rolled in 12" lifts (Maximum) | TON | 17.57 | 8.68 | 1.31 | 27.55 |
| 365 | Imported borrow / crushed stone 1" including compacting | CY | 43.71 | 2.80 | 0.42 | 46.94 |
| 366 | Imported borrow / crushed stone 3/4" including compacting | CY | 43.65 | 2.80 | 0.42 | 46.87 |
| 367 | Imported borrow / crushed stone 1/2" including compacting | CY | 45.70 | 2.80 | 0.42 | 48.93 |
| 368 | Imported hardcore including compacting | CY | 36.92 | 1.35 | 0.20 | 38.47 |
| 369 | Excavate and backfill utility trench 3' deep X 18" wide | LF | 0.63 | 1.51 | 0.36 | 2.51 |
| 370 | Excavate and backfill utility trench 5' deep X 24" wide | LF | 1.05 | 2.15 | 0.51 | 3.71 |
| 371 | Excavate and backfill utility trench 7' deep X 36" wide | LF | 1.70 | 2.79 | 0.66 | 5.15 |
| | Concrete Curbing / Paving / Pads | | | | | |
| 372 | Excavate by hand for 12" x 6" curb | LF | 11.63 | 7.46 | 1.13 | 20.22 |
| | Excavate by machine for 12" x 6" curb | LF | 10.48 | 5.83 | 0.88 | 17.19 |
| 374 | Install stone bedding for curb | LF | 5.29 | 4.09 | 0.62 | 10.00 |
| 375 | Dry concrete bedding material | CY | 91.71 | 17.99 | 2.72 | 112.42 |
| | Concrete 12" x 6" wide | LF | 11.92 | 7.61 | 1.15 | 20.68 |
| | PCC curb 18" x 6' wide - straight runs | LF | 14.32 | 4.50 | 0.68 | 19.50 |
| | PCC curb 18" x 6' wide - curved runs | LF | 17.14 | 5.32 | 0.80 | 23.26 |
| | Granite curbing / edging 12" high x 6" wide | LF | 14.89 | 7.36 | 1.11 | 23.36 |
| 380 | Granite slit faced curbing 18" high x 6" wide | LF | 32.29 | 11.26 | 0.73 | 44.28 |
| | Concrete gutter 12" wide x 4' deep | LF | 9.17 | 6.13 | 1.46 | 16.76 |
| 382 | Concrete paving, 2", broom finish (no stone, excavation or mesh reinforcement) | SF | 1.41 | 1.44 | 0.34 | 3.19 |
| 383 | Concrete paving, 4", broom finish (no stone, excavation or mesh reinforcement) | SF | 2.00 | 1.98 | 0.47 | 4.45 |
| 384 | Brick pavers, on 2" bedding material (excludes excavation) | SF | 5.16 | 6.67 | 0.43 | 12.26 |



| | 2023 Division 15 - Mechanical Work - Union | Unit of Measure | Material | Labor | Construction | Total |
|------------|---|--------------------|------------------|----------------------|------------------|------------------------|
| | Work - Union | weasure | | | Equipment | |
| 271 | Sewage ejector pump - single 5 | EACH | 25,974.79 | 3,503.69 | 223.50 | 29,701.99 |
| | HP motor - 3" - 4" dia discharge | | | 2,22222 | | |
| | c/w tank and piping and electrical | | | | | |
| | hook up | | | | | |
| 272 | Sewage ejector pump - duplex 1 | EACH | 10,750.60 | 1,346.57 | 85.90 | 12,183.07 |
| | HP motor - 2" - 3" dia discharge | | , | | | |
| | c/w tank and piping and electrical | | | | | |
| | hook up | | | | | |
| 273 | Sewage ejector pump - duplex 2 | EACH | 21,817.49 | 2,925.19 | 186.60 | 24,929.28 |
| | 1/2 HP motor - 3" - 4" dia | | | | | |
| | discharge c/w tank and piping and | | | | | |
| | electrical hook up | | | | | |
| 274 | Sewage ejector pump - duplex 5 | EACH | 26,627.63 | 3,650.77 | 232.89 | 30,511.28 |
| | HP motor - 3" - 4" dia discharge | | | | | |
| | c/w tank and piping and electrical | | | | | |
| | hook up | | | | | |
| 275 | Sewage ejector pump - duplex | EACH | 31,185.22 | 4,252.05 | 271.24 | 35,708.51 |
| | 7.5 HP motor - 4" - 6" dia | | | | | |
| | discharge c/w tank and piping and | | | | | |
| | electrical hook up | | | | | |
| 070 | Pumps - General Service | E 4 0 1 1 | 1 000 | 157.57 | 20.40 | 4 000 04 |
| 276 | 5 GPM - 50' head | EACH | 1,336 | 457.57 | 29.19 | 1,822.94 |
| 277 | 10 GPM ditto | EACH | 1,511 | 490.26 | 31.27 | 2,032.97 |
| 278 | 25 GPM ditto | EACH | 2,206 | 751.72 | 47.95 | 3,006.01 |
| 279 | 50 GPM ditto | EACH | 2,272 | 866.12 | 55.25 | 3,193.70 |
| 280 | 100 GPM ditto | EACH | 2,420 | 1,372.71 | 87.57 | 3,880.33 |
| 281 | 250 GPM ditto | EACH | 4,903 | 2,353.22 | 150.11 | 7,406.30 |
| 282 | 500 GPM ditto | EACH | 7,257 | 3,497.15 | 223.09 | 10,977.49 |
| 283 | 1,000 GPM ditto 2,500 GPM ditto | EACH EACH | 7,772 | 4,510.35 5,752.33 | 287.72 366.95 | 12,570.51 24,145.68 |
| 284 285 | 5,000 GPM ditto | EACH | 18,026 23,295 | 6,912.60 | 440.96 | 30,648.89 |
| 286 | 5 GPM - 250' head | EACH | 1,848 | 480.45 | 30.65 | 2,359.14 |
| 287 | 10 GPM ditto | EACH | 2,112 | 514.77 | 32.84 | 2,659.65 |
| 288 | 25 GPM ditto | EACH | 3,089 | 789.31 | 50.35 | 3,928.52 |
| 289 | 50 GPM ditto | EACH | 3,187 | 909.42 | 58.01 | 4,154.37 |
| 290 | 100 GPM ditto | EACH | 3,388 | 1,441.35 | 91.95 | 4,921.36 |
| 291 | 250 GPM ditto | EACH | 6,864 | 2,470.89 | 157.62 | 9,492.65 |
| 292 | 500 GPM ditto | EACH | 10,173 | 3,672.01 | 234.24 | 14,079.16 |
| 293 | 1,000 GPM ditto | EACH | 10,881 | 4,735.86 | 302.11 | 15,919.39 |
| 294 | 2,500 GPM ditto | EACH | 25,195 | 6,039.94 | 385.29 | 31,620.00 |
| 295 | 5,000 GPM ditto | EACH | 32,640 | 7,258.23 | 463.01 | 40,361.13 |
| 296 | Pump - condensate - duplex 10 | EACH | 4,354 | 1,372.71 | 87.57 | 5,814.50 |
| | GPM | | , | , | | , , , , , |
| 297 | Ditto 25 GPM | EACH | 6,809 | 1,601.50 | 102.16 | 8,512.18 |
| 298 | Ditto 50 GPM | EACH | 9,758 | 1,764.92 | 112.59 | 11,635.34 |
| 299 | Ditto 100 GPM | EACH | 140,304 | 2,908.85 | 185.56 | 143,398.38 |



| | 2023 Division 16 - Electrical Work - Union | Unit | Material | Labor | Construct Equipt | Total |
|-------|---|------|----------|-------|---------------------|-----------|
| 135 | Ditto 4" | EACH | | | | 12.00 per |
| | | | | | | device |
| 136 | Electronic pressure recorder | EACH | | | | 12.00 per |
| | | | | | | device |
| 137 | Electronic turbine flow meter 1" | EACH | | | | 4.00 per |
| | | | | | | device |
| 138 | Ditto 2" | EACH | | | | 8.00 per |
| | | | | | | device |
| 139 | Electronic swirl meter 1" | EACH | | | | 4.50 per |
| | | | | | | device |
| 140 | Ditto 2" | EACH | | | | 8.00 per |
| | | | | | | device |
| 141 | Electronic temperature controller | EACH | | | | 6.50 per |
| | · | | | | | device |
| 142 | Electronic flow indicator | EACH | | | | 5.00 per |
| | | | | | | device |
| 143 | Electronic PD flow indicator | EACH | | | | 5.50 per |
| | | | | | | device |
| 144 | Electronic level control valve | EACH | | | | 5.50 per |
| | | | | | | device |
| | Electrical work by various | | | | | |
| | facility | | | | | |
| 145 | Electrical work - Manufacturing | SF | 5.98 | 6.93 | 0.44 | 13.35 |
| | facility 1 - 3 floors | | | | | |
| 146 | Electrical work - Shopping mall 1 - | SF | 6.61 | 8.35 | 0.53 | 15.49 |
| | 3 floors | 7. | | | | |
| 147 | Electrical work - Single family | SF | 3.78 | 5.30 | 0.34 | 9.42 |
| ' ' ' | home 1 - 2 floors | O. | 0.70 | 0.00 | 0.01 | 0.12 |
| 148 | Electrical work - Motel / Hotel 1 - | SF | 4.95 | 6.99 | 0.45 | 12.38 |
| 170 | 3 floors | O. | 4.00 | 0.00 | 0.40 | 12.00 |
| 140 | Electrical work - Hotel 4 - 7 floors | SF | 6.70 | 8.55 | 0.55 | 15.80 |
| 143 | Liectrical work - Hotel 4 - 7 Hoors | Oi | 0.70 | 0.00 | 0.55 | 13.00 |
| 150 | Electrical work - Airport terminal | SF | 11.04 | 12.00 | 0.77 | 23.80 |
| 130 | Liectrical work - Airport terminal | OI. | 11.04 | 12.00 | 0.77 | 23.00 |
| 151 | Electrical work - 3 star Hotel 4 - 7 | SF | 11.99 | 14.32 | 0.91 | 27.23 |
| 151 | floors | SF | 11.99 | 14.32 | 0.91 | 21.23 |
| 152 | Electrical work R&D Laboratory | SF | 13.90 | 15.86 | 1.01 | 30.78 |
| 132 | • | SF | 13.90 | 15.60 | 1.01 | 30.76 |
| 152 | building | C.E. | 10.70 | 14.61 | 0.02 | 26.22 |
| | Electrical work 1 - 3 floor Office | SF | 10.79 | 14.61 | 0.93 | 26.33 |
| | Electrical work 4 - 8 floor Office | SF | 10.32 | 13.76 | 0.88 | 24.96 |
| 155 | Electrical work 9 - 15 floor Office | SF | 8.90 | 12.10 | 0.77 | 21.77 |
| 156 | Electrical work ISO 8 100,000 | SF | 38.43 | 42.39 | 2.71 | 83.53 |
| | area | - | | | | |
| 157 | Electrical work ISO 6 1,000 area | SF | 68.88 | 84.79 | 5.41 | 159.08 |
| | 2.000 area | | | O+.70 | | 100.00 |
| 158 | Electrical work - Hospital | SF | 23.73 | 30.56 | 1.95 | 56.25 |



| | 2023 Division 16 - Electrical Work - Union | Unit | Material | Labor | Construct Equipt | Total |
|-----|---|------|----------|-------|---------------------|--------|
| 322 | 600 v copper 1/C # 2 THHN | LF | 2.42 | 1.84 | 0.12 | 4.38 |
| 323 | 600 v copper 1/C - 1/0 THHN | LF | 3.87 | 2.39 | 0.16 | 6.42 |
| 324 | 600 v copper 1/C - 2/0 THHN | LF | 4.26 | 2.76 | 0.18 | 7.19 |
| 325 | 600 v copper 1/C - 3/0 THHN | LF | 5.42 | 3.03 | 0.20 | 8.65 |
| 326 | 600 v copper 1/C - 4/0 THHN | LF | 6.58 | 3.59 | 0.23 | 10.40 |
| 327 | 600 v copper 1/C - 250 MCM THHN | LF | 7.93 | 4.32 | 0.28 | 12.54 |
| 328 | 600 v copper 1/C - 350 MCM THHN | LF | 10.18 | 4.69 | 0.31 | 15.18 |
| 329 | 600 v copper 1/C - 500 MCM THHN | LF | 14.31 | 5.70 | 0.37 | 20.39 |
| 330 | 600 v copper 1/C - 600 MCM THHN | LF | 21.28 | 6.07 | 0.40 | 27.74 |
| 331 | 600 v copper 1/C - 750 MCM THHN | LF | 27.08 | 6.90 | 0.45 | 34.43 |
| 332 | PVC copper cable / raceway for 30 amp service | LF | 2.92 | 5.14 | 0.39 | 8.44 |
| 333 | Ditto 60 amp | LF | 6.09 | 6.76 | 0.51 | 13.37 |
| | Ditto 100 amp | LF | 11.48 | 16.23 | 1.23 | 28.94 |
| | Ditto 150 amp | LF | 18.27 | 18.93 | 1.43 | 38.63 |
| | Ditto 225 amp | LF _ | 36.99 | 21.64 | 1.64 | 60.27 |
| | Ditto 400 amp | LF | 76.14 | 27.05 | 2.04 | 105.23 |
| | Ditto 800 amp | LF | 169.93 | 32.46 | 2.45 | 204.84 |
| | EMT - copper cable / raceway for 30 amp service | LF | 2.56 | 8.11 | 0.41 | 11.08 |
| 340 | Ditto 60 amp | LF | 7.57 | 10.82 | 0.55 | 18.94 |
| | Ditto 100 amp | LF | 17.87 | 13.52 | 0.68 | 32.07 |
| | Ditto 150 amp | LF | 24.43 | 16.23 | 0.82 | 41.47 |
| | Ditto 225 amp | LF | 47.17 | 18.93 | 0.95 | 67.06 |
| | Ditto 400 amp | LF | 91.49 | 24.34 | 1.84 | 117.67 |
| | Ditto 800 amp | LF | 182.21 | 29.75 | 2.25 | 214.21 |
| 346 | RSC - copper cable for 30 amp service | LF | 4.76 | 10.82 | 0.82 | 16.40 |
| 347 | Ditto 60 amp | LF | 9.35 | 13.52 | 1.02 | 23.90 |
| | Ditto 100 amp | LF | 22.23 | 18.93 | 1.43 | 42.59 |
| | Ditto 150 amp | LF | 30.93 | 20.12 | 1.52 | 52.58 |
| 350 | Ditto 225 amp | LF | 59.04 | 26.06 | 1.97 | 87.07 |
| | Ditto 400 amp | LF | 118.63 | 40.27 | 3.04 | 161.94 |
| | Ditto 800 amp | LF | 233.33 | 51.12 | 3.86 | 288.31 |
| | PVC - aluminum cable for 30 amp service | LF | 3.28 | 5.41 | 0.41 | 9.10 |
| 354 | Ditto 60 amp | LF | 5.74 | 8.11 | 0.61 | 14.47 |
| | Ditto 100 amp | LF | 11.29 | 13.52 | 1.02 | 25.84 |
| | Ditto 150 amp | LF | 16.06 | 16.23 | 1.23 | 33.52 |
| | Ditto 225 amp | LF | 22.53 | 18.93 | 1.43 | 42.89 |
| | Ditto 400 amp | LF | 28.96 | 21.64 | 1.64 | 52.23 |
| | Ditto 800 amp | LF | 55.57 | 29.75 | 2.25 | 87.57 |