

## COSTCO WAREHOUSE & GAS STATION

Fort Wayne, IN

3/20/2013



### CONCRETE SCOPE OF WORK TO INCLUDE, BUT NOT LIMITED TO THE FOLLOWING:

#### SITE CONCRETE;

SIDEWALKS AND THICKENED EDGE DETAILS.

CURB & GUTTER.

BOLLARDS & CART CORRALS, INSTALL ONLY.

CONCRETE WASH-OUT PITS - INSTALL/REMOVE

NOTE: DRIVEWAY APPROACHES & OFF-SITE CONCRETE WILL BE PROVIDED BY OTHERS.

#### **ALTERNATE PRICING:**

- \* LIGHT POLE BASES WITH REBAR CAGES PER S-0.3

#### BUILDING CONCRETE:

STRUCTURAL CONCRETE - FOOTINGS AND CIP WALLS.

LOADING DOCK SLAB.

COMPACTOR/BREAD RAMP SLAB.

MAIN SALES & CANOPY SLAB.

SIDEWALKS & THICKENED EDGE DETAILS TOUCHING OR CONNECTED TO WAREHOUSE BUILDING.

INTERIOR WALLS AT RECEIVING AREA, 4' HIGH

CONCRETE WASH-OUT PITS - INSTALL/REMOVE

BUILDING RIGID FOUNDATION INSULATION

FREEZER RIGID INSULATION.

CURBS PER PLAN.

BOLLARDS, INSTALL ONLY.

#### **ALTERNATE PRICING:**

- \* DUCTILCRETE ALTERNATE - **PROPOSAL MUST INCLUDE A COMPLETE BUILDING SCOPE.**
- \* STRUCTURAL BUILDING EXCAVATION / BACKFILL - FOOTING & FOUNDATION.
- \* FREEZER PIT EXCAVATION and DISPOSAL OF SPOILS (3).
- \* FREEZER PIT SAND FILL (3).
- \* DAMPPROOFING

#### CONCRETE MATERIALS

1 ROCK SAND WATER CEMENT - FRESH SHIPPING METHOD = CONCRETE

2 APPROVED MIX DESIGN

3 CONCRETE SUPPLIER MUST ATTEND PRE-POUR MEETING

4 CURING PERIOD

5 CLEAN UP AREA - PROVIDE CONTAINMENT AREA FOR WASH OUT OF TRUCKS

6 SUPPLIER PROVIDE DRIVERS WITH MAP OF SITE, ENTRY ONTO SLAB AND WASHOUT PIT

7 CONCRETE MIXER TRUCKS TO HAVE CORRECT SLUMP UPON ENTRY TO JOBSITE OR TRUCKS  
WILL BE REJECTED

8 COMPLETE BATCH PLANT INSPECTION

9 IS AGGREGATE AND CEMENT FOR ENTIRE SLAB QUANTITY PURCHASED AND STORED

#### FORMS

1 MATERIAL TRUE & STRAIGHT

2 FORM OIL

3 STAKES

4 FORMS TO STAY ON EARLY POURS UNTIL DAY BEFORE SUBSEQUENT POURS

5 DON'T STRIP FORMS TOO EARLY. IT WILL OPEN EDGES TO CURE FASTER AND CAUSE POSSIBLE CURLING

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**CONCRETE SCOPE OF WORK TO INCLUDE, BUT NOT LIMITED TO THE FOLLOWING:**

- 6 USE GRADE FEATHER AT DRAINS, CLEAN OUTS AND SINKS.

**REINFORCEMENT**

- 1 DOWEL BASKETS, DIAMOND DOWELS - ALL NEED TO BE SET TRUE LINE & CUTS AND IN CENTER OF CONCRETE VERTICALLY
- 2 USE PLASTIC CHAIRS - NO CONCRETE DOBBIES - STEEL CHAIRS
- 3 DIAMOND DOWELS - DO NOT INSERT TOO EARLY, PLACE CREWS MAY STEP ON THEM AND DESTROY EDGE

**LASER EQUIPMENT**

- 1 DISTANCES BETWEEN SENDING UNITS & RECEIVER
- 2 UNITS NEED TO BE OF GOOD QUALITY
- 3 WHEN USING A SOMERO LASER SCREED, USE IT FOR FINAL SETTING OF FORMS, CLEAN-OUTS, SINKS, etc.
- 4 HAVE BACK-UP EQUIPMENT AVAILABLE - MANDATORY
- 5 MAKE SURE LASER EQUIPMENT HAS BEEN RECENTLY CALIBRATED

**WEATHER CONDITIONS**

- 1 KNOW THE AREA'S WEATHER PATTERNS. WEATHER UNDERGROUND, NOAA
- 2 KEEP AREA'S AVAILABLE TO DRAIN, I.E., FOOTINGS
- 3 NEVER POUR ON UNSUITABLE SUB GRADE

**PLACEMENT CREW**

- 1 PUMPING
- 2 TELEBELT
- 3 TAILGATE
- 4 THE ENTIRE PLACEMENT CREW NEEDS TO KNOW TOLERANCE REQUIREMENTS. DURING PRE-CONCRETE MEETING, MAKE SURE SUPERVISORS PASS ON THE PROCEDURES AND REQUIREMENTS OF THE FINISHED PRODUCT. JDC WILL ATTEND ALL DISCUSSIONS OF REQUIREMENTS EVEN DOWN TO THE LEVEL OF LABORERS & CLEAN-UP PERSONNEL.
- 5 NO WALKING ACROSS SLAB AREA UNTIL CURED OUT FOR SOFT CUTTING
- 6 DO NOT GET OFF TROWEL MACHINES AND WALK ON SLAB
- 7 DO NOT FUEL MACHINES ON SLAB SURFACE
- 8 FINISH EDGES WITH TROWEL MACHINES. NO HAND TROWEL FINISH ON EDGES
- 9 HAVE SUFFICIENT LIGHTING DURING POURS (FOUR (4) TOWERS MIN)
- 10 BUMP CUT EDGES
- 11 ALL PERSONNEL ARE TO WEAR CLEAN "BOOTIES" WHEN ON SLAB
- 12 USE WOOD BULL FLOAT
- 13 USE FIBERGLASS HAND TROWELS
- 14 DO NOT STOP MACHINES ON SLAB UNDER ANY CIRCUMSTANCE
- 15 PROTECT WALLS AND COLUMNS FROM CONCRETE
- 16 MOP ADJACENT SLAB PRIOR TO CURE
- 17 ASSIGN A MAN DEDICATED TO KEEPING THE EDGES CLEAN

**QUALITY CONTROL**

- 1 POUR SCHEDULE AREA OF PLACEMENT 100% READY 24 HOURS PRIOR TO POUR
- 2 ADEQUATE CREW AND FINISHING EQUIPMENT FOR POUR SIZE
- 3 PLUMBERS AND ELECTRICIANS MUST BE ON STANDBY TO MAINTAIN ELEVATIONS OF FLOOR DRAINS AND CONDUIT
- 4 MIX DESIGN SHOULD HAVE HISTORY
- 5 BATCH PLANT MUST BE RELIABLE AND DISTANCE FROM PLANT MUST BE ACCEPTABLE

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**CONCRETE SCOPE OF WORK TO INCLUDE, BUT NOT LIMITED TO THE FOLLOWING:**

- 6 THIRD PARTY INSPECTORS STATIONED AT AND MONITORING BATCH PLANT
- 7 POUR CONSISTENCY - MAKE SURE TRANSIT TRUCKS PULL UP TO AREA OF PLACEMENT, MATERIAL IS CORRECT AND READY (I.E. CORRECT MIX DESIGN AND SLUMP)
- 8 PROVIDE EASY ACCESS FOR WASH OUT PIT (LOCATION PRE-ESTABLISHED)

**SAW CUTTING PROCEDURES**

- 1 DRY/WET METHODS
- 2 MAKE SURE SAWS RUN THRU FORMS, DON'T STOP SHORT OF FORMS
- 3 PROVIDE MIN 92) SAWS WITH VACUUMS AND ONE BACK UP ON EACH
- 4 HAVE ENOUGH MANPOWER (FRESH MANPOWER) TO COMPLETE LAYOUT AND CUTS
- 5 CHANGE OR CLEAN OUT VACUUM FILTERS AT EVERY BLADE CHANGE
- 6 BOTTOM SHOE - BLACK (NOT WHITE) VELCRO (STICKY ONE SIDE) CHANGE VELCRO WHEN BLADES ARE CHANGED
- 7 DUMP CONCRETE DUST IN CONCRETE WASH OUT AREA - NOT OFF EDGE OF SLAB

**LAYOUT**

- 1 USE NEW SHEET FOR LAYOUT / QUALIFIED PERSONAL
- 2 ENOUGH EQUIPMENT TO CUT AT RATE OF CURING 500 FT PER POUR (MIN)
- 3 SOFT CUT MACHINE - G4000 - BLADES - DO NOT FUEL MACHINES ON SLAB
- 4 PULL LONG LINES WITH STRINGS
- 5 USE WHITE, YELLOW OR BLUE FOR CAULK COLOR (RED STAINS CONCRETE)
- 6 MAKE SURE MACHINES ARE CLEANED & MAINTENANCE UP TO DATE
- 7 REMOVAL OF SAW CUTTING DUST MUST BE COMPLETED BEFORE CURING MATERIAL IS APPLIED. IT CAN BE VERY DIFFICULT TO REMOVE HAND CUT JOINTS TO WALLS, COLUMNS, ETC

**FINAL CLEAN & POLISH**

- 1 HIGH SPEED BURNISH WITH ADDITIONAL SEALER IN HIGH VIS AREA'S

**UNIT PRICING:**

NOTE: "FORM of BID PROPOSAL" Division 00350 (Posted at All Plan Centers).  
CONCRETE  
BUILDING COMPONENTS

**GAS STATION:**

STRUCTURAL CONCRETE - FOOTINGS AND DISPENSER ISLANDS.  
CANOPY SLAB.  
FUEL TANK SLAB.  
CONTROLLER ENCLOSURE SLAB.  
BOLLARDS, INSTALL ONLY.  
CURB & GUTTER, SELECT LOCATIONS.

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**EARTHWORK / UTILITY SCOPE OF WORK TO INCLUDE, BUT NOT LIMITED TO THE FOLLOWING:**

**SWPPP:**

EROSION & SEDIMENTATION CONTROL - PER PLAN AND SPECIFICATIONS: INSTALL, MAINTAIN & REMOVE.  
DUST CONTROL  
TEMPORARY SILT FENCE C303  
TEMPORARY ENTRANCE ACCESS 25' X 100' - 2 each C303 w/ Fabric  
CONCRETE WASH-OUT PITS - INSTALL/REMOVE (2 each)  
TRAFFIC CONTROL / STREET CLEANING  
EROSION CONTROL BLANKET C303

**ALTERNATE PRICING:**

- \* HYDRO-SEED OUT LOTS
- \* WHEEL WASH STATION

**SITE PREP.:**

STRIP EXISTING VEGETATION & TOPSOIL - DISPOSAL OFF-SITE  
PROOF ROLL SUBGRADE  
ROUGH GRADE TO SITE SUBGRADE ELEVATION.  
OVER-EXCAVATION AND REPLACEMENT OF EXISTING MATERIAL PER GEOTECH REPORT.  
FINISH GRADE SITE  
COMPLETE BUILDING PAD PREPARATION

**EARTHWORK:**

SURVEYING and LAYOUT (INITIAL STAKING BY JACKSON DEAN CONSTRUCTION).  
DEWATERING as NEEDED TO COMPETE SCOPE OF WORK.  
OVER-EXCAVATION AND REPLACEMENT OF EXISTING MATERIAL PER GEOTECH REPORT.  
EXCAVATION & FROST-RESISTANT FILL PER SHEETS C803 & SD302. SPEC. SECTION 02300.  
BUILDING FOUNDATION EXCAVATION / FILL - FREEZER PIT EXCAVATION - SAND FILL  
PER RFI JDC 003 - INDIANA DOT COARSE AGGREGATE NUMBERS 5, 8 or 9 MEET REQUIREMENTS.  
EXPORT / DISPOSAL of SPOILS - IMPORT BACKFILL  
OUT LOT IS TO BE INCLUDED IN THE SCOPE OF WORK BOUNDARY.  
CERTIFIED PAD SUBGRADE  
7" AGG BASE AT BUILDING SOG - SPECIFICATION SECTION 02300 2.3, page 3.  
INCLUDE RE-GRADE PRIOR TO CONCRETE SLAB PLACEMENT.  
6" AGG BASE AT EXTERIOR CURBS & GUTTER / SIDEWALKS / RAMPS / PADS, etc-

**ALTERNATE PRICING:**

- \* TEMPORARY ACCESS ROAD (ALL WEATHER) & MAINTENANCE AROUND THE BUILDING - x 12" thick.
- \* STAGING AREA #1 GRAVEL PAD - approx. 100' x 300' x 12".
- \* STAGING AREA #2 GRAVEL PAD - approx. 100' x 150' x 12".
- \* VEHICLE FUELING & MAINTENANCE AREA GRAVEL PAD - approx. 100' x 70' x 12".
- \* TRAILER STAGING AREA GRAVEL PAD - approx. 100' x 100' x 12".
- \* SOIL TREATMENT - STABILIZATION RECOMMENDATION HAS BEEN REQUESTED. WILL FORWARD ASAP.
- \* 12" OVER-EXCAVATION AND REPLACEMENT OF EXISTING MATERIAL PER GEOTECH REPORT @ PARKING, ACCESS DRIVES, FUEL FACILITY AND WAREHOUSE FLOOR.
- \* OVER-EXCAVATION & REPLACEMENT OF EXISTING FILL PER GEOTECH REPORT @ WAREHOUSE FLOOR AND FUEL FACILITY CANOPY. QUANTITY = 9,000 TRUCK CUYD.
- \* DUCTILCRETE ALTERNATE - BASE PREPARATION PER DUCTILCRETE SLAB SYSTEMS SPECIFICATION.  
6" AGG BASE AT BUILDING SOG.

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MINIMUM BASE COMPACTION SHALL BE 98% OF ASTM SPECIFICATION D-698 (Standard Proctor Density).

- \* FREEZER PIT EXCAVATION and DISPOSAL OF SPOILS (3).
- \* FREEZER PIT SAND FILL (3).

**UTILITIES:**

SURVEYING and LAYOUT (INITIAL STAKING BY JACKSON DEAN CONSTRUCTION).  
EXCAVATE / DISPOSAL of EXCESS SPOILS / IMPORT BACKFILL.  
LAST PERON CONNECTS SITE AND BUILDING GROUNDWORK.

**WATER SYSTEM: COMPLETE TO WITHIN 5' OF BUILDING STRUCTURE.**

FIRE WATER TO FLOOR FLANGE 6" AFF.  
RELOCATE TWO (2) EXISTING FIRE HYDRANTS, PER C100 & C500.  
FLUSH AND DISINFECT WATER SYSTEM PER SPECIFICATIONS AND AHJ.  
PROTECT EXISTING 24" WATER MAIN.

**ALTERNATE PRICING:**

- \* TAPPING FEES FOR TWO (2) - 24" x 8" CONNECTIONS.
- \* DISINFECTION/BACTERIOLOGICAL WATER SAMPLE REPORTS.

**SANITARY SEWER SYSTEM: COMPLETE TO WITHIN 5' OF BUILDING STRUCTURE.**

SITE SUBCONTRACTOR TO MAKE FINAL CONNECTION AT BUILDING.  
VIDEO COMPLETED SYSTEM

**ALTERNATE PRICING - EACH :**

- \* ADD - WAREHOUSE GREASE INTERCEPTORS / SAND SEPARATOR PER P-1.1
- \* GI - 1: Utility Vault # 5106-GA (1,500 gal)
- \* GI - 2: Utility Vault # 4484-GA (1,000 gal)
- \* SS 1: Utility Vault # 557 (800 gal)
- \* ADD - FUEL FACILITY OIL WATER SEPARATOR: Utility Vault # 660-SA (450gal), PER C701.

**STORM SYSTEM: COMPLETE TO BUILDING**

FURNISH & INSTALL COMPLETE PER PLANS & SPECIFICATIONS  
INCLUDE BARRICADES & PROTECTION AT VALVES / STRUCTURES, etc.  
FINGER DRAINS AT DRAIN INLETS C800  
BUILDING FOOTING AND YARD DRAINS  
MANHOLE FINAL ADJUSTMENT AFTER ASPHALT COMPLETE.

**UNIT PRICING:**

NOTE: "FORM of BID PROPOSAL" Division 00350 (Posted at All Plan Centers).  
EARTHWORK & EXCAVATION ITEMS.  
UTILITIES.

**GAS STATION:**

**EARTHWORK:**

INCLUDE SUBGRADE PREP (EXCAVATION / FILL) WITH WAREHOUSE SCOPE OF WORK.  
BALANCE OF WORK BY GAS STATION SUBCONTRACTOR.

**UTILITIES:**

SEPARATE ADDITIVE PRICING FOR GAS STATION UTILITIES.