

November 2016 Progress



Electrical Room Underslab Rough In
(Pictured Above)

Concrete Mudmat For Loading Dock Foundations
(Pictured Left)

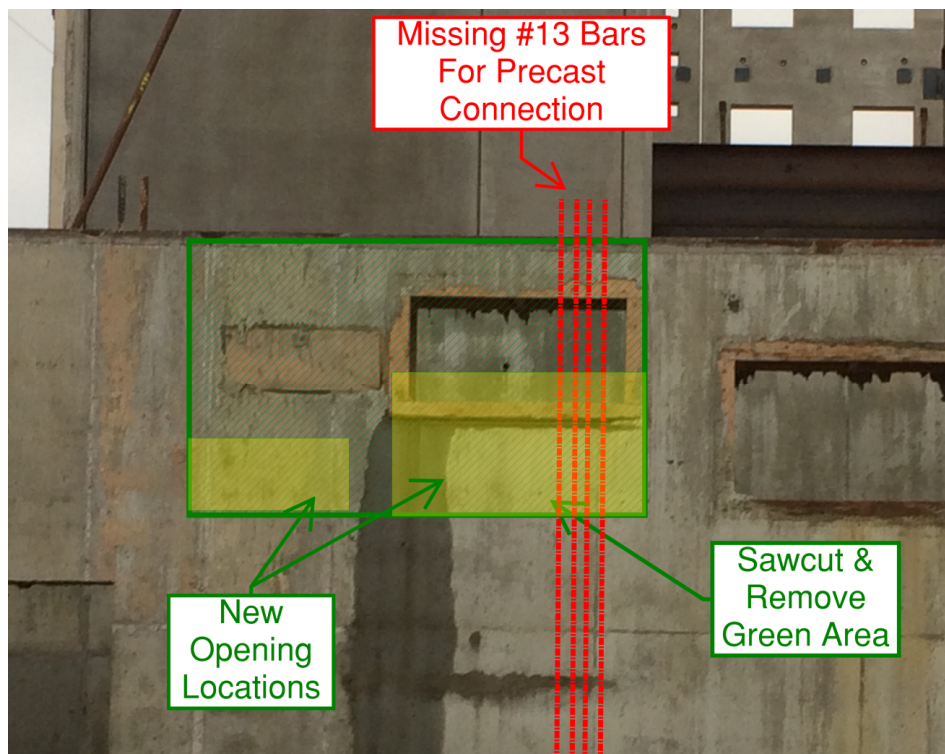
Upcoming Work Activities

- Precast & steel erection continue into March following the sequencing plan
- Loading dock foundations will be complete in December
- Misc. foundation work ongoing at the east side of the building
- Underground & overhead electrical rough in ongoing in the basement
- Backfill at the Sallyport & loading dock areas will occur in December

Winter Conditions

- \$150,000 allocated in the project soft cost for temp heat
- Gilbane would like to distribute as follows:
 - \$15,000 to Temp-Air for Equipment Rental
 - \$50,000 to Hicksgas for Propane Supply
 - \$20,000 to MPC Enterprises for temporary protection work required for grouting operations
 - \$2,700 to Manusos for rental of concrete curing blankets
 - Remainder to be used as needed
- All allocations will be billed on a monthly basis for services rendered and unused funds will be returned to the project.

Foundation Wall Fix Required At Mechanical Shaft



- #13 bars required by Precast contractor conflicted with opening for ductwork
- Bars were left out at the time of pour assuming the Precast contractor could design another connection
- Due to forces on this wall there are no other connections possible
- Estimated cost to rework is \$14,000
- Gilbane recommends doing T&M Not To Exceed



Allowance Tracking Log

Job	Phase Code	Vendor	Contract	Allowance Amount	Current Value	Balance
Job: J05399.000 - DeKalb County Jail						
J05399.000	01.03A.033001.S TA - Allw: Additional	Manusos General Contracting Inc	J05399-00002	35,000.00	27,000.53	7,999.47
J05399.000	01.03B.034001.E TA - Allw: Additional	MPC Enterprises, Inc.	J05399-00007	10,000.00	425.00	9,575.00
J05399.000	01.04A.040001.E TA - Allw: Additional	Mastership Construction	J05399-00014	20,000.00	0.00	20,000.00
J05399.000	01.05A.050001.S TA - Allw: Additional Struct	Waukegan Steel, LLC	J05399-00003	10,000.00	0.00	10,000.00
J05399.000	01.05B.055001.S TA - Allw: Misc. Metals	S.G. Krauss Co.	J05399-00023	10,000.00	0.00	10,000.00
J05399.000	01.06A.060001.I TA - Allw: Dumpsters	Hargrave Builders, Inc.	J05399-00013	50,000.00	0.00	50,000.00
J05399.000	01.06A.060002.I TA - Allw: General Interim	Hargrave Builders, Inc.	J05399-00013	30,000.00	0.00	30,000.00
J05399.000	01.06A.060003.I TA - Allw: Temp Toilets	Hargrave Builders, Inc.	J05399-00013	20,000.00	0.00	20,000.00
J05399.000	01.06A.060004.I TA - Allw: Misc.	Hargrave Builders, Inc.	J05399-00013	15,000.00	0.00	15,000.00
J05399.000	01.07A.070001.S TA - Allw: Misc Roofing	Metalmaster Roofmaster, Inc.	J05399-00020	10,000.00	0.00	10,000.00
J05399.000	01.07B.075001.X TA - Allw: Misc Spray	Midwest Fireproofing, LLC	J05399-00022	10,000.00	0.00	10,000.00
J05399.000	01.07C.078001.I TA - Allw: Misc. Metal	Metalmaster Roofmaster, Inc.	J05399-00029	5,000.00	0.00	5,000.00
J05399.000	01.08A.088001.E TA - Allw: Misc. Glass &	Rock Valley Glass of Rockford,	J05399-00026	10,000.00	0.00	10,000.00
J05399.000	01.09A.090001.X TA - Allw: Misc. Drywall	L.J. Morse Construction Company	J05399-00019	5,000.00	0.00	5,000.00
J05399.000	01.09B.096001.X TA - Allw: Misc.	Vortex Commercial Flooring	J05399-00024	10,000.00	0.00	10,000.00
J05399.000	01.09C.099001.X TA - Allw: Misc. Painting	Oosterbaan & Sons Co.	J05399-00025	15,000.00	0.00	15,000.00
J05399.000	01.11A.110001.X TA - Allw: Misc. Detention	Valley Security Company	J05399-00027	10,000.00	0.00	10,000.00
J05399.000	01.11B.114050.X TA - Allw: Misc. Food	Great Lakes Hotel Supply	J05399-00018	10,000.00	0.00	10,000.00
J05399.000	01.14A.142001.X TA - Allw: Misc. Elevator	Schumacher Elevator Company	J05399-00030	5,000.00	0.00	5,000.00
J05399.000	01.21A.210001.X TA - Allw: Misc. Fire	S.J. Carlson Fire Protection Inc	J05399-00021	10,000.00	0.00	10,000.00
J05399.000	01.22A.220001.X TA - Allw: Misc. Plumbing	J B Contracting Corporation	J05399-00016	10,000.00	0.00	10,000.00
J05399.000	01.23A.230001.X TA - Allw: Misc. HVAC	Dodson Plumbing Heating and Air	J05399-00017	10,000.00	0.00	10,000.00
J05399.000	01.26A.260001.X TA - Allw: Additional	Excel Electric, Inc	J05399-00004	1,609.56	1,609.56	0.00
J05399.000	01.26B.260011.X TA - Allw: Misc. Electrical	Morse Electric Inc	J05399-00015	10,000.00	0.00	10,000.00
J05399.000	01.28A.281010.X TA - Allw: Misc. Security	Stanley Convergent Security	J05399-00028	10,000.00	0.00	10,000.00
J05399.000	01.31A.310001.X TA - Allw: Additional Work	Berger Excavating Contractors Inc	J05399-00005	50,000.00	32,931.74	17,068.26
J05399.000	01.32A.320001.X TA - Allw: Additional Work	Abbey Paving & Sealcoating Co.,	J05399-00006	25,000.00	7,665.40	17,334.60
J05399.000	01.33A.330001.X TA - Allw: Additional Site	Stark & Son Trenching, Inc.	J05399-00008	25,000.00	23,520.08	1,479.92
Total Job: J05399.000				441,609.56	93,152.31	348,457.25
Report Total:				441,609.56	93,152.31	348,457.25

Location of Supply and Exhaust Grilles in Cells

- We reviewed the performance data for the selected 6" x 6" security grilles. At the design airflow of 100 cfm, the throw rating is 11-17-34, which means that at a distance of 11 feet from the grille (the cells are about 11 feet long) the air velocity will still be 150 feet per minute. Based on that data, I'm confident that the airflow will reach the opposite wall without short-circuiting. In fact, since the air is discharging directly toward the opposite wall (and away from the return), I'd say it's even more likely to reach that wall than if the air was discharging downward from a ceiling grille in the center of the cell.

Dave Evers, Mechanical Engineer, Dewberry

Location of Supply and Exhaust Grilles in Cells

With the current project design and based on Dewberry's diffuser selection listed in the email below, it does not appear that short circuiting into the return air grille is a significant concern.

In general, we would agree with DeKalb facilities staff that locating supply and return grilles far apart is typically a good approach. But the value of doing so in this particular scenario should be weighed. A few thoughts on this...

1. The scheduled supply grilles (Titus model SG-PR) are designed with a 6x6 neck size and supply 100 CFM of air. Based on the diffuser performance sheet (see attached) this diffuser would provide a discharge velocity of about 897 fpm at the face of the grille. This would "throw" the supply air about 11 feet, at which point it would still be moving at about 150 fpm. Even with the return air grille located within a few feet of the supply air grille, the current configuration should allow for adequate air circulation and limit the possibility of short-circuiting.

Location of Supply and Exhaust Grilles in Cells

2. Further note that the design incorporates a pressure independent VAV system, which means this discharge velocity would be maintained whenever the RTU is operational and the terminal unit serving the cell is functioning properly.

3. All of this would need to be properly confirmed during the balancing process to ensure that all holding cells (especially those furthest from the RTU) still maintain these conditions. E Cube will assist with this review during construction. If the TAB contractor has been hired, getting their input on the matter right now would be a good idea.

4. Locating the supply grille in the center of the security ceiling may allow for greater distance between the supply and return grilles, but I would agree with Dewberry in that a portion of the supply air might more easily short-circuit back to the return grille because with this configuration one side of the ceiling mounted supply diffuser would be blowing directly toward the return (since this type of diffuser blows in 4 directions). If ceiling mounted diffusers are really desired, then one option to help alleviate the short-circuiting issue is to select a 3-way diffuser that would blow in all directions except toward the return.