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EXECUTIVE SUMMARY

This technical assignment takes a more in depth look at the costs and methods for the Health Care Center, located in central Pennsylvania. This assignment includes an analysis of a detailed project schedule, site layout planning, assemblies estimate, detailed structural estimate, and general conditions estimate.

The detailed project schedule follows the Health Care Center's addition and renovation construction via activity to activity. The detailed schedule highlights important milestones of the project and shows the construction sequence from the south addition to the gymnasium to the renovation. Next, the site layout plan shows what logistics and coordination went into the layout of the site plan. Along with keeping a safe construction site, it is most important that the existing building remains functional. All planning had to make sure construction would not interfere with the operation of the existing Health Care Center. Following the site plan are the assemblies estimate, detailed structural estimate, and general conditions estimate. Medical facilities will have different equipment costs compared to other buildings, so equipment and finishes were estimated in the assemblies estimate to show their comparative costs to the project. Next is the detailed structural estimate, a section of the building was estimated and then compared to the buildings actual costs. Lastly, the general conditions estimate shows what the staffing costs are for the duration of the project.

DETAILED PROJECT SCHEDULE

Please see Appendix A for Detailed Project Schedule

IMPORTANT PROJECT DATES

Mobilization on Site	August 17, 2006
FRP Footings (South Addition)	November 20, 2006
Steel Erection (South Addition)	January 8, 2007
Building Enclosed (South Addition)	June, 8 2007
Substantial Completion (South Addition)	October 11, 2007
FRP Footings (Gymnasium)	October 12, 2007
Asbestos Removal (Renovation)	November 2, 2007
Steel Erection (Gymnasium)	November 9, 2007
Building Enclosed (Gymnasium)	March 7, 2008
Substantial Completion (Renovation)	April 24, 2008
Substantial Completion (Gymnasium)	June 26, 2008
Final Acceptance of Project	August 14, 2008

FOUNDATION

South Addition

The South Addition's foundation system is constructed of spread footings, continuous footings, and foundation walls. Construction starts from the existing building and continues south, away from the building. A total of ten days for mass excavation is necessary prior to the foundation construction.

Gymnasium

Similarly, the Gymnasium's foundation system is constructed of spread footings, continuous footings, and foundation walls.

Renovation

There is no additional foundation construction required for the renovation. However, it is important that a 3/8" expansion joint is between the existing and new structure with 3/8" expansion bolts tying into the existing structure.

DETAILED PROJECT SCHEDULE

Please see Appendix A for Detailed Project Schedule

STRUCTURE

<u>Construction</u>	<u>Section(s)</u>
South Addition	B – E
Gymnasium	F
Renovation	A

South Addition

The steel erection sequence starts closest to the existing building in section B. The erection process continues south finishing with section E. No crane has been selected at this time due to the project still being in the early phases of construction. It has been noted that more than one crane location will be needed to cover the entire building.

Gymnasium

The erection sequence continues with section F. Here steel columns and joists are erected. The gym walls are constructed of concrete filled CMU block.

Renovation

Some of the existing bearing walls and steel girders, on the south wall of the existing building, will be removed and replaced with structural steel. This steel erection will occur in section A during the last erection sequence.

FINISHES

Finishes throughout the South Addition, Gymnasium, and Renovation are all sequenced typical in the following order:

- MEP Risers & Mains
- MEP Branches
- Insulation
- Frame Walls & Ceiling
- Light Fixtures
- Painting
- Plumbing Fixtures
- Floor Finishes

SITE LAYOUT PLANNING

Please see Appendix B for Site Plan Layout

The site layout plan is designed during the superstructure phase. It is important that the Health Care Center remain operational throughout the construction process. The entrance south of the existing building must remain accessible throughout construction. The access road to the construction site will also serve as the ambulance path for the existing building. There is a gate located along side the access road where all construction vehicles can enter the site. Also, located near the gate will be dumpsters to allow for easy pick up. Contractor parking and trailer location will be outside the fenced off site along the access road. As mentioned in the detailed project schedule, no crane has been selected for the project yet. It has been noted that there will be more than one location for the crane. These locations have been designated to be located south of the existing building, then south of the south addition, and lastly east of the gymnasium. A crane radius of 170 feet is required to cover all of the building.

ASSEMBLIES ESTIMATE

Please see Appendix C for Detail Assemblies Estimate

ASSEMBLIES ESTIMATE Equipment & Finishes	
Gym Equipment	Amount
	29320
Food Service Equipment	Amount
	275000
Medical Equipment	Amount
	100000
Painting	Amount
	220622
Flooring	Amount
	578695
TOTAL ASSEMBLIES ESTIMATE	1203637

There are extra equipment and finishes involved in the Health Care Center that are not usually contained in a building. Being a medical facility, there are extra costs in equipment. Also, having the addition of a gym and a cafeteria will add extra equipment costs to a project. Cost Works was used to get some of the information needed for the estimate. In areas where information was not found in Cost Works, lump sums were given. The lump sums for the food services and medical equipment were provided by Gilbane. The \$1.2 million of the assemblies estimate is 5.3% of the \$22.3 million construction cost.

DETAILED STRUCTURAL ESTIMATE

Please see Appendix D for Detailed Structural Estimate

STRUCTURAL ESTIMATE Costs of Section Takeoff	
CONCRETE	Amount
	224150
MASONRY	Amount
	63280
STEEL	Amount
	1113040
STRUCTURAL TOTAL	1400470

STRUCTURAL COSTS	
CONCRETE	Amount
	2824228
MASONRY	Amount
	1284784
STEEL	Amount
	2000000
STRUCTURAL TOTAL	6109012

GENERAL INFORMATION

Due to no typical bay design in the Health Care Center, the detail structural estimate was taken off of the section shown in Appendix D, instead of the entire structure. This section includes part of the first floor, part of the second floor/low roof, the penthouse floor/high roof, and penthouse roof. Columns were estimated separately. The columns were estimated this way because some columns are from floor to floor, while others are the entire height of the building. All pricing was taken from the computer program Cost Works. Included in the estimate are the following:

- Concrete
 - Rebar
 - Welded Wire Mesh
 - Slab-On-Grade
 - Slab-On-Deck
 - Footings

DETAILED STRUCTURAL ESTIMATE

Please see Appendix D for Detailed Structural Estimate

- Masonry
 - 8" CMU with rebar
- Steel
 - Beams
 - Columns
 - Metal Deck

COMPARISON

The structural costs come from the design development estimate provided by Gilbane. These costs are currently out to bid and are not the actual structural costs. These costs also include non-structural and non-load bearing components. The concrete in the estimate is 8% of the actual construction cost for concrete. Masonry is 5% of the actual cost for masonry and steel is 55% of the actual cost for steel. The total estimated structural cost is 23% of the actual costs. Some reasons for the concrete and masonry percentages being low include the following:

- Building perimeter of non estimated sections is constructed of foundation walls and concrete filled CMU
- A large amount of masonry is in the façade (brick veneer)
- Non load bearing CMU walls not estimated

GENERAL CONDITIONS ESTIMATE

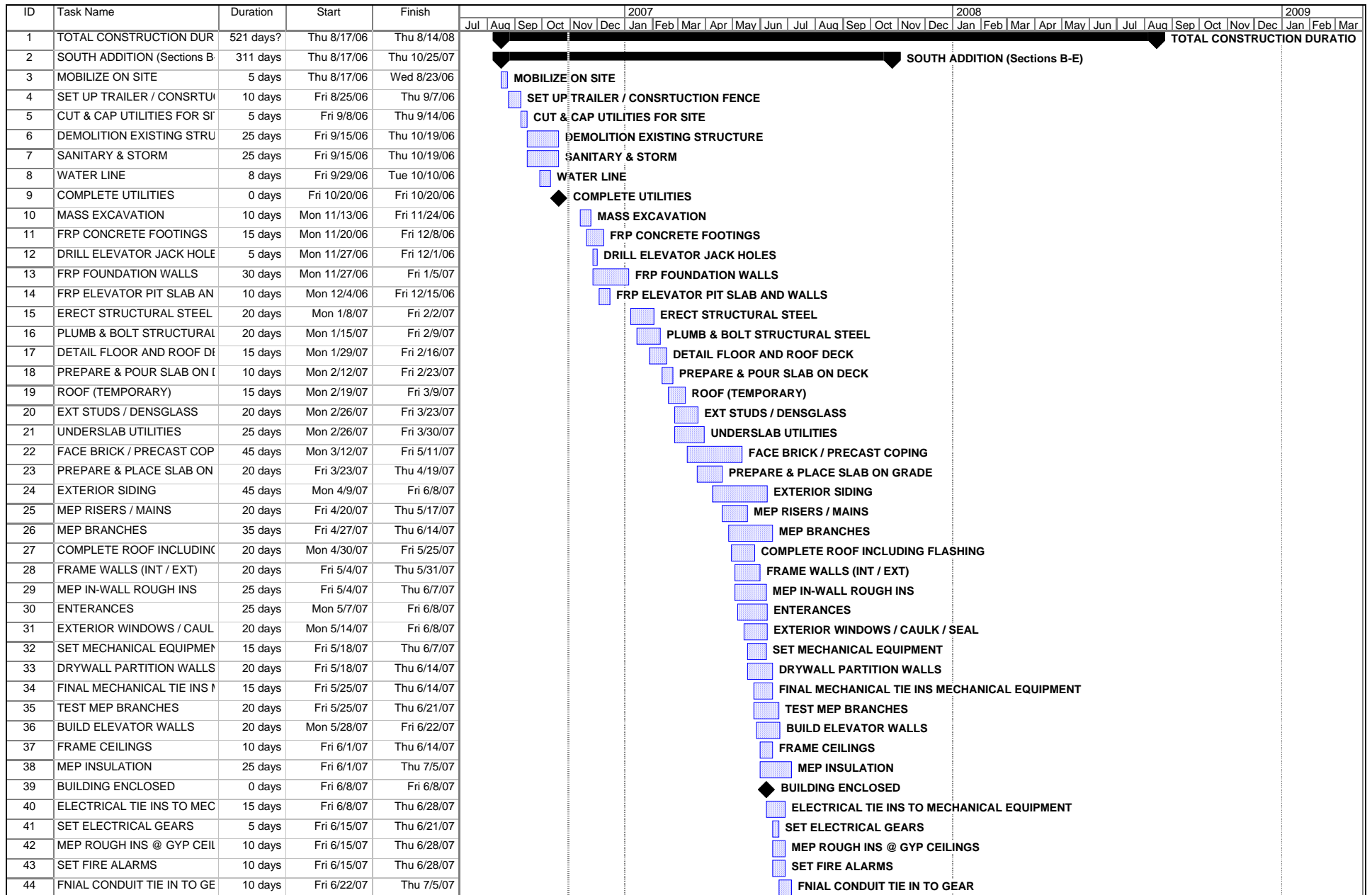
Please see Appendix E for Detailed General Conditions Estimate

GENERAL CONDITIONS / REIMBURSABLE COST ESTIMATE	
Personnel	Amount
	457839
Field Office Support	
	57394
Travel / Relocation / Meals	
	13000
Temporary Utilities	
	0
Temporary Facilities / Fence / Barricades	
	0
Safety	
	1500
Clean Up	
	0
Tools & Equipment	
	200
Material Handling & Hoists	
	0
SUBTOTAL COST	529933
Insurance	
	0.44%
TOTAL GENERAL CONDITIONS / REIMBURSABLE COST	763103.5

The general conditions estimate was calculated by Cost Works. A lump sum was given to certain items that were not found in Cost Works. Gilbane is contracted as a CM Agent for the Health Care Center. They are not managing risk, so in some areas items were placed into the contractor's contract. Using Gilbane's staffing plan, Cost Works was used to determine an approximate cost for personnel. All other categories were based off of general conditions that can be found in all projects. The total cost for general conditions is \$763,103 which is 3.4% of the total cost of the project.

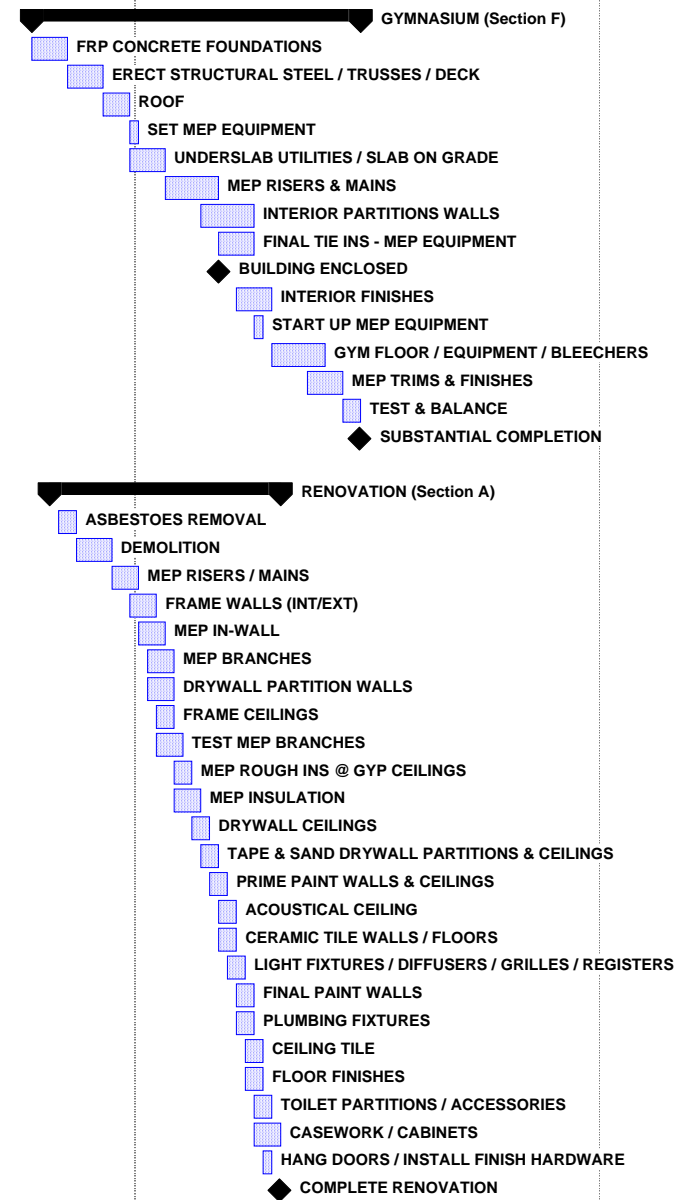
APPENDIX A

Project Schedule



Project: DETAILED SCHEDULE Date: Mon 10/30/06	Task		Summary		Rolled Up Progress		Project Summary	
	Progress		Rolled Up Task		Split		Group By Summary	
	Milestone		Rolled Up Milestone		External Tasks		Deadline	

ID	Task Name	Duration	Start	Finish	2007												2008												2009											
					Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar															
89																																								
90	GYMNASIUM (Section F)	185 days	Fri 10/12/07	Thu 6/26/08																																				
91	FRP CONCRETE FOUNDATIO	20 days	Fri 10/12/07	Thu 11/8/07																																				
92	ERECT STRUCTURAL STEEL	20 days	Fri 11/9/07	Thu 12/6/07																																				
93	ROOF	15 days	Fri 12/7/07	Thu 12/27/07																																				
94	SET MEP EQUIPMENT	5 days	Fri 12/28/07	Thu 1/3/08																																				
95	UNDERSLAB UTILITIES / SLA	20 days	Fri 12/28/07	Thu 1/24/08																																				
96	MEP RISERS & MAINS	30 days	Fri 1/25/08	Thu 3/6/08																																				
97	INTERIOR PARTITIONS WALL	30 days	Fri 2/22/08	Thu 4/3/08																																				
98	FINAL TIE INS - MEP EQUIPMI	20 days	Fri 3/7/08	Thu 4/3/08																																				
99	BUILDING ENCLOSED	0 days	Fri 3/7/08	Fri 3/7/08																																				
100	INTERIOR FINISHES	20 days	Fri 3/21/08	Thu 4/17/08																																				
101	START UP MEP EQUIPMENT	5 days	Fri 4/4/08	Thu 4/10/08																																				
102	GYM FLOOR / EQUIPMENT / E	30 days	Fri 4/18/08	Thu 5/29/08																																				
103	MEP TRIMS & FINISHES	20 days	Fri 5/16/08	Thu 6/12/08																																				
104	TEST & BALANCE	10 days	Fri 6/13/08	Thu 6/26/08																																				
105	SUBSTANTIAL COMPLETION	0 days	Thu 6/26/08	Thu 6/26/08																																				
106																																								
107	RENOVATION (Section A)	130 days	Fri 10/26/07	Thu 4/24/08																																				
108	ASBESTOES REMOVAL	10 days	Fri 11/2/07	Thu 11/15/07																																				
109	DEMOLITION	20 days	Fri 11/16/07	Thu 12/13/07																																				
110	MEP RISERS / MAINS	15 days	Fri 12/14/07	Thu 1/3/08																																				
111	FRAME WALLS (INT/EXT)	15 days	Fri 12/28/07	Thu 1/17/08																																				
112	MEP IN-WALL	15 days	Fri 1/4/08	Thu 1/24/08																																				
113	MEP BRANCHES	15 days	Fri 1/11/08	Thu 1/31/08																																				
114	DRYWALL PARTITION WALLS	15 days	Fri 1/11/08	Thu 1/31/08																																				
115	FRAME CEILINGS	10 days	Fri 1/18/08	Thu 1/31/08																																				
116	TEST MEP BRANCHES	15 days	Fri 1/18/08	Thu 2/7/08																																				
117	MEP ROUGH INS @ GYP CEIL	10 days	Fri 2/1/08	Thu 2/14/08																																				
118	MEP INSULATION	15 days	Fri 2/1/08	Thu 2/21/08																																				
119	DRYWALL CEILINGS	10 days	Fri 2/15/08	Thu 2/28/08																																				
120	TAPE & SAND DRYWALL PAR	10 days	Fri 2/22/08	Thu 3/6/08																																				
121	PRIME PAINT WALLS & CEILI	10 days	Fri 2/29/08	Thu 3/13/08																																				
122	ACOUSTICAL CEILING	10 days	Fri 3/7/08	Thu 3/20/08																																				
123	CERAMIC TILE WALLS / FLOC	10 days	Fri 3/7/08	Thu 3/20/08																																				
124	LIGHT FIXTURES / DIFFUSER	10 days	Fri 3/14/08	Thu 3/27/08																																				
125	FINAL PAINT WALLS	10 days	Fri 3/21/08	Thu 4/3/08																																				
126	PLUMBING FIXTURES	10 days	Fri 3/21/08	Thu 4/3/08																																				
127	CEILING TILE	10 days	Fri 3/28/08	Thu 4/10/08																																				
128	FLOOR FINISHES	10 days	Fri 3/28/08	Thu 4/10/08																																				
129	TOILET PARTITIONS / ACCES	10 days	Fri 4/4/08	Thu 4/17/08																																				
130	CASEWORK / CABINETS	15 days	Fri 4/4/08	Thu 4/24/08																																				
131	HANG DOORS / INSTALL FINI	5 days	Fri 4/11/08	Thu 4/17/08																																				
132	COMPLETE RENOVATION	0 days	Thu 4/24/08	Thu 4/24/08																																				



Project: DETAILED SCHEDULE
Date: Mon 10/30/06

Task		Summary		Rolled Up Progress		Project Summary	
Progress		Rolled Up Task		Split		Group By Summary	
Milestone		Rolled Up Milestone		External Tasks		Deadline	

ID	Task Name	Duration	Start	Finish	2007												2008												2009																					
					Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar																									
133																																																		
134	PROJECT CLOSEOUT	35 days	Fri 6/27/08	Thu 8/14/08																																														
135	A/E PREPARE & ISSUE PUNC	10 days	Fri 6/27/08	Thu 7/10/08																																														
136	CORRECTIVE WORK BASED I	15 days	Fri 7/11/08	Thu 7/31/08																																														
137	A/E & OWNER FINAL WALK TI	5 days	Fri 8/1/08	Thu 8/7/08																																														
138	FINAL SIGN OFF	5 days	Fri 8/8/08	Thu 8/14/08																																														
139	FINAL ACCEPTANCE OF PRO	0 days	Thu 8/14/08	Thu 8/14/08																																														

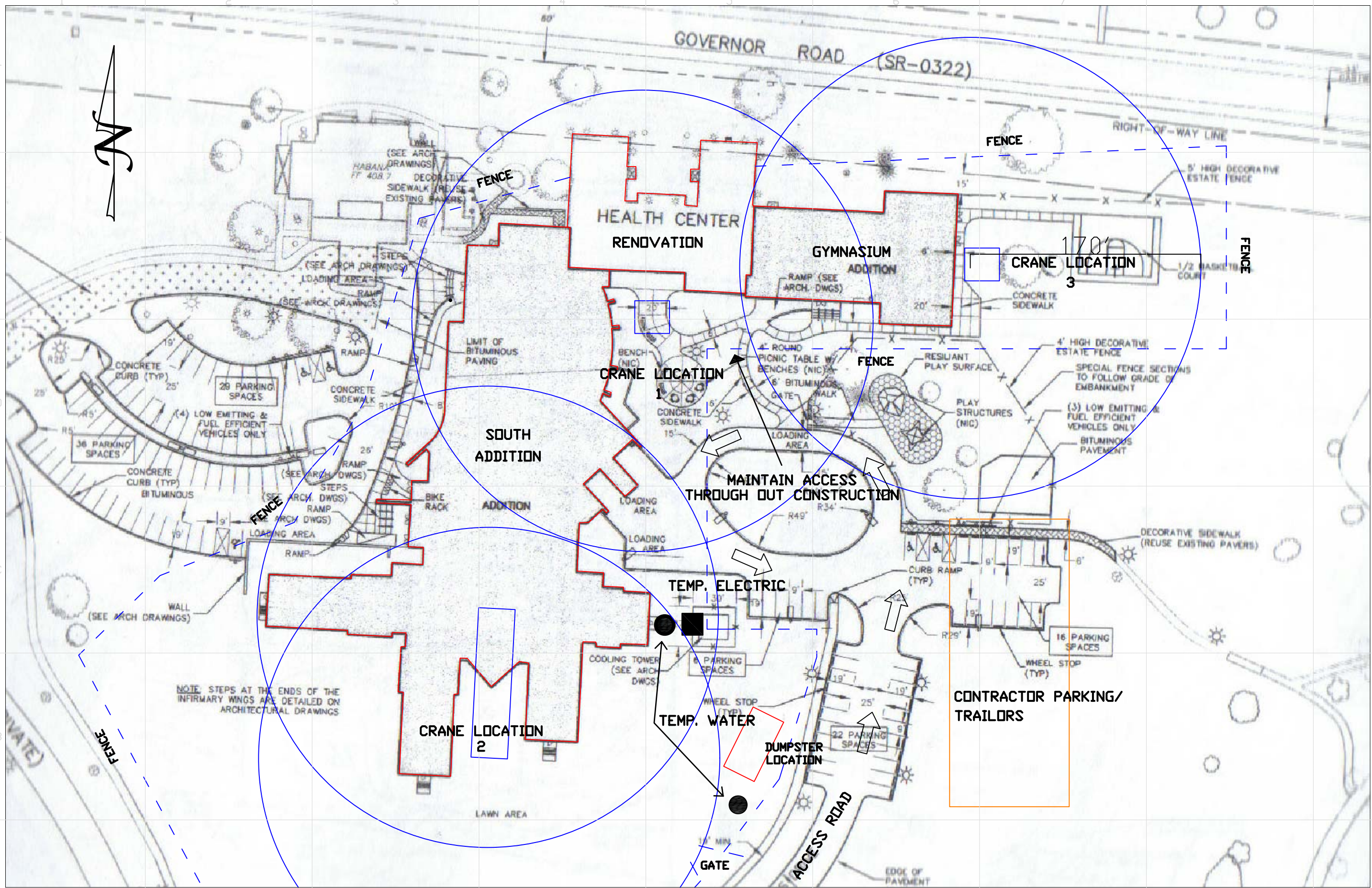
- PROJECT CLOSEOUT
- A/E PREPARE & ISSUE PUNCH LIST
- CORRECTIVE WORK BASED ON PUN
- A/E & OWNER FINAL WALK THROUGH
- FINAL SIGN OFF
- FINAL ACCEPTANCE OF PROJECT

Project: DETAILED SCHEDULE
Date: Mon 10/30/06

Task		Summary		Rolled Up Progress		Project Summary	
Progress		Rolled Up Task		Split		Group By Summary	
Milestone		Rolled Up Milestone		External Tasks		Deadline	

APPENDIX B

Site Layout Plan



CREATED BY:
KEN LORENZ

SYMBOL
← TRAFFIC FLOW & AMBULANCE PATH

HEALTH CARE CENTER

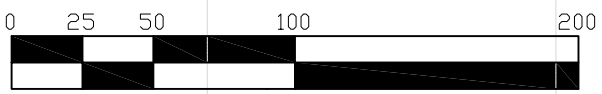
OWNER:
ANONYMOUS
LOCATION:
DAUPHIN COUNTY, PA

MARK	DATE	DESCRIPTION

PROJECT NO.	PROJECT
CAD DWG FILE	FILE
DRAWN	DRAWN
CHECKED	CHECKED
SHEET TITLE	

SITE LAYOUT PLAN

HEALTH CARE CENTER SITE PLAN
SCALE: 3/8" = 1'



C-01

APPENDIX C

Detailed Assemblies Estimate

DETAILED ASSEMBLIES ESTIMATE Equipment & Finishes					
EQUIPMENT		QTY	Unit	Price	Amount
Gym					
	Washer / Dryer	3	Sets	1500	4500
	Basketball net & backboard	2	Each	2000	4000
	Sports net divider curtain	1400	SF	11	15400
	Wall padding or mats	192	SF	10	1920
	Sports lining in multi purpose room	1	LS	3500	3500
SUBTOTAL GYM EQUIPMENT					29320
Food Services					
	equipment	1	LS	275000	275000
SUBTOTAL FOOD SERVICES EQUIPMENT					275000
Medical Equipment					
	equipment	1	LS	100000	100000
SUBTOTAL MEDICAL EQUIPMENT					100000
FINISHES		QTY	Unit	Price	Amount
Painting					
	Paint gyp wall	183000	SF	0.7	128100
	Paint gyp ceiling	22300	SF	0.9	20070
	Paint gyp bulkheads & soffits	1200	SF	0.8	960
	Paint CMU walls	12700	SF	1.2	15240
	Paint single door frames	245	Each	60	14700
	Paint double door frames	31	Each	80	2480
	Paint metal hallow door	29	Each	120	3480
	Paint exposed structure in all purpose room	4610	SF	1.5	6915
	Paint other exposed	13141	SF	0.5	6570.5
	Sealed concrete floor	22106	SF	1	22106
SUBTOTAL PAINTING FINISHES					220621.5
Flooring					
	Quarry tile kitchen area	1450	SF	9	13050
	Ceramic floor tile in restrooms	4450	SF	8	35600
	Wall tile in kitchen area	1500	SF	7	10500
	Wall tile in restrooms	12010	SF	7	84070
	Stair treads	880	LF	15	13200
	Seamless sheet vinyl	5742	SF	9	51678
	Resilient athletic floor	3552	SF	10	35520
	Echo floor	360	SF	12	4320
	Entrance material	1452	SF	25	36300
	VT	9851	SF	2.3	22657.3
	Bamboo flooring	1640	SF	14	22960
	Carpet tile	49768	SF	5	248840
SUBTOTAL FLOORING FINISHES					578695.3

APPENDIX D

Detailed Structural Estimate

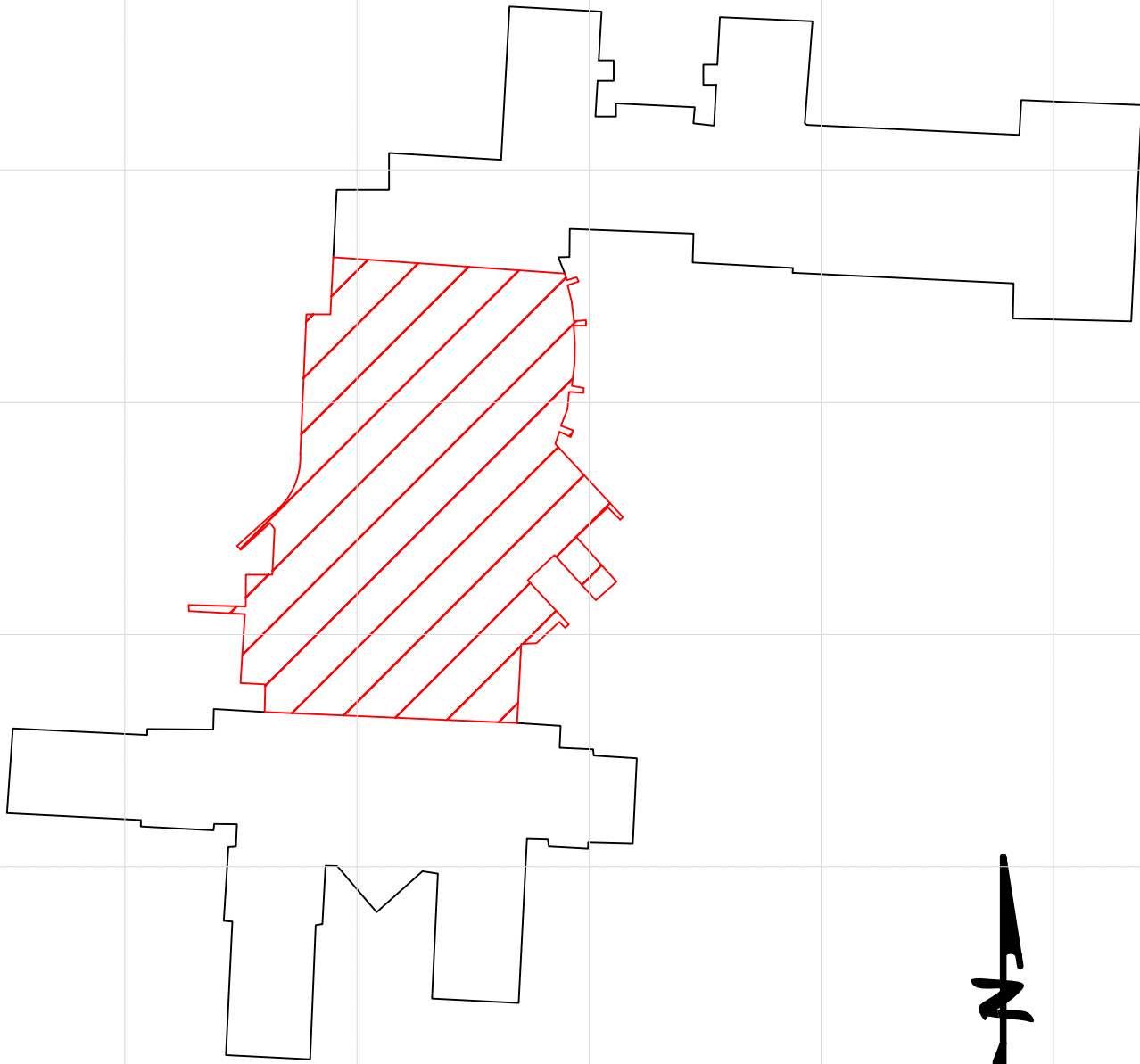
DETAILED STRUCTURAL ESTIMATE First Floor						
CONCRETE		Notes	QTY	Unit	Price	Amount
3200	#4-7 Rebar, footings	material	0.2335	TON	785	183.2975
3200	#4-7 Rebar, footings	labor & equipment	0.2335	TON	560	130.76
3200	#8-18 Rebar, footings	material	0.775	TON	740	573.5
3200	#8-18 Rebar, footings	labor & equipment	0.775	TON	325	251.875
3200	6"x6" W2.1xW2.1	material	204	CSF	26.5	5406
3200	6"x6" W2.1xW2.1	labor & equipment	204	CSF	19	3876
3200	6"x6" W2.9xW2.9	material	112	CSF	34	3808
3200	6"x6" W2.9xW2.9	labor & equipment	112	CSF	20.5	2296
3300	CIP SOG	material	251	CY	82.5	20707.5
3300	CIP SOG	labor & equipment	251	CY	17.85	4480.35
3300	CIP SOG	finishing	753	SF	0.26	195.78
3300	CIP SOD	material	138	CY	82.5	11385
3300	CIP SOD	labor & equipment	138	CY	17.85	2463.3
3300	CIP SOD	finishing	414	SF	0.26	107.64
3300	CIP, foundation wall	material	706	CY	82.5	58245
3300	CIP, foundation wall	labor & equipment	706	CY	16.7	11790.2
3300	CIP, spread footing	material	238	CY	82.5	19635
3300	CIP, spread footing	labor & equipment	238	CY	16.7	3974.6
3300	CIP, cont. footing	material	261	CY	82.5	21532.5
3300	CIP, cont. footing	labor & equipment	261	CY	16.7	4358.7
SUB TOTAL CONCRETE						175401
MASONRY		Notes	QTY	Unit	Price	Amount
4200	8" CMU w/ rebar	load bearing walls	4520	SF	14	63280
SUB TOTAL MASONRY						63280
STEEL		Notes	QTY	Unit	Price	Amount
5000	Structural Steel	beams	36	TON	2750	99000
5300	Metal Deck	material	11203	SF	8.95	100266.9
5300	Metal Deck	labor & equipment	11204	SF	1.41	15797.64
SUB TOTAL STEEL						215064.5


DETAILED STRUCTURAL ESTIMATE Second Floor / Low Roof						
CONCRETE		Notes	QTY	Unit	Price	Amount
3200	6"x6" W2.9xW2.9	material	241	CSF	34	8194
3200	6"x6" W2.9xW2.9	labor & equipment	241	CSF	20.5	4940.5
3300	CIP SOD	material	297	CY	82.5	24502.5
3300	CIP SOD	labor & equipment	297	CY	17.85	5301.45
3300	CIP SOD	finishing	891	SF	0.26	231.66
SUB TOTAL CONCRETE						30035.61
MASONRY		Notes	QTY	Unit	Price	Amount
-	-	-	-	-	-	-
SUB TOTAL MASONRY						-
STEEL		Notes	QTY	Unit	Price	Amount
5000	Structural Steel	beams	120	TON	2750	330000
5300	Metal Deck	material	24049	SF	8.95	215238.6
5300	Metal Deck	labor & equipment	24050	SF	1.41	33910.5
SUB TOTAL STEEL						579149.1

DETAILED STRUCTURAL ESTIMATE High Roof / Penthouse Floor						
CONCRETE		Notes	QTY	Unit	Price	Amount
3200	6"x6" W2.9xW2.9	welded wire mesh	104	CSF	34	3536
3200	6"x6" W2.9xW2.9	welded wire mesh	104	CSF	20.5	2132
3300	CIP SOD	material	129	CY	82.5	10642.5
3300	CIP SOD	labor & equipment	129	CY	17.85	2302.65
3300	CIP SOD	finishing	387	SF	0.26	100.62
SUB TOTAL CONCRETE						18713.77
MASONRY		Notes	QTY	Unit	Price	Amount
-	-	-	-	-	-	-
SUB TOTAL MASONRY						-
STEEL		Notes	QTY	Unit	Price	Amount
5000	Structural Steel	beams	17	TON	2750	46750
5300	Metal Deck	material	10411	SF	8.95	93178.45
5300	Metal Deck	labor & equipment	10412	SF	1.41	14680.92
SUB TOTAL STEEL						154609.4

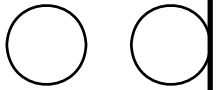
DETAILED STRUCTURAL ESTIMATE Penthouse Roof						
CONCRETE		Notes	QTY	Unit	Price	Amount
-	-	-	-	-	-	-
SUB TOTAL CONCRETE						-
MASONRY		Notes	QTY	Unit	Price	Amount
-	-	-	-	-	-	-
SUB TOTAL MASONRY						-
STEEL		Notes	QTY	Unit	Price	Amount
5000	Structural Steel	beams	7	TON	2750	19250
5300	Metal Deck	material	2048	SF	8.95	18329.6
5300	Metal Deck	labor & equipment	2048	SF	1.41	2887.68
SUB TOTAL STEEL						40467.28

DETAILED STRUCTURAL ESTIMATE Column						
COLUMN		Notes	QTY	Unit	Price	Amount
5000	Structural Steel	columns	45	TON	2750	123750
SUB TOTAL COLUMN						123750



 SECTION FOR STRUCTURAL ESTIMATE
 SCALE: N.T.S.

CREATED BY:
 KEN LORENZ

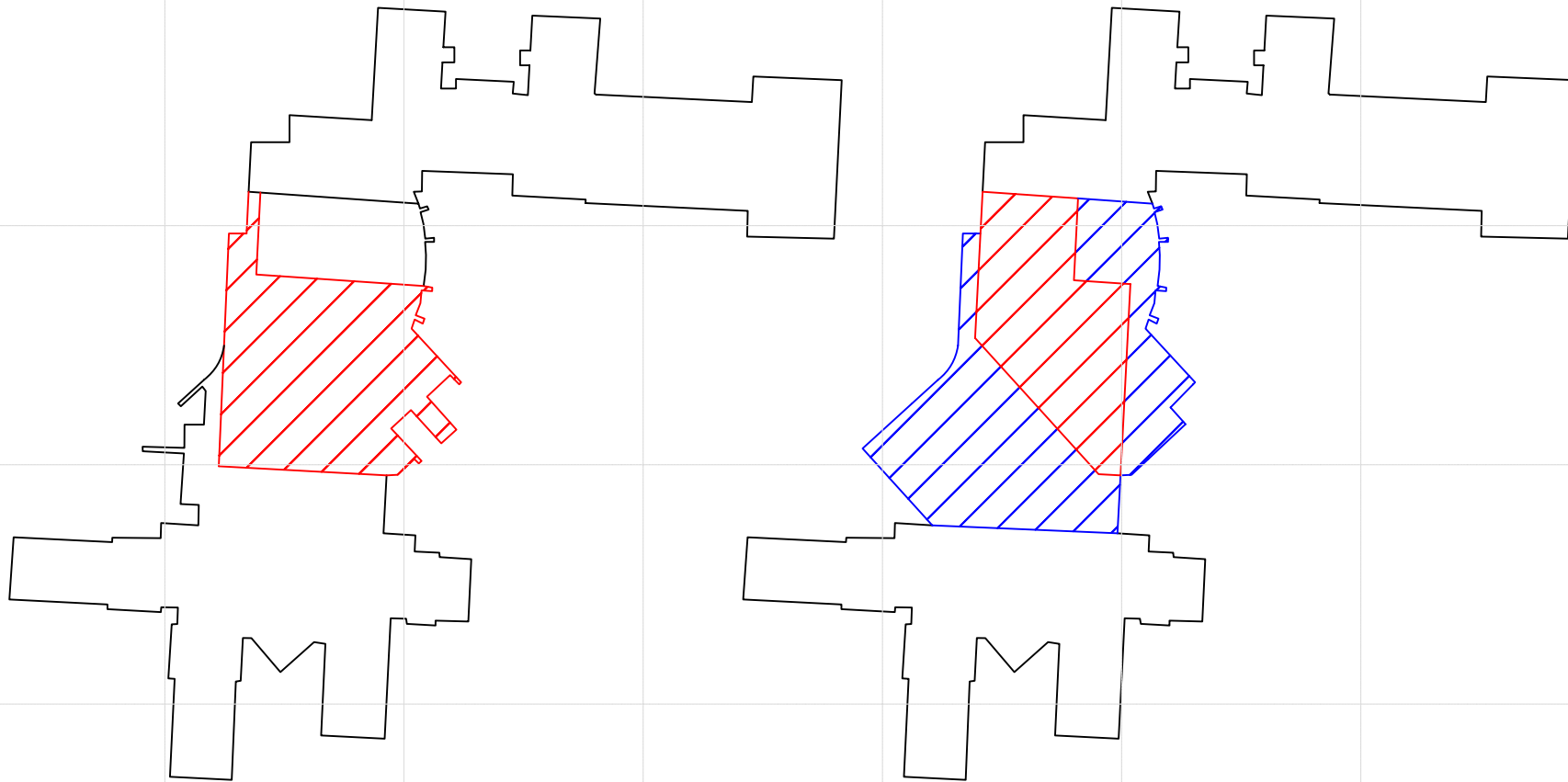


**HEALTH
 CARE
 CENTER**

OWNER:
 ANONYMOUS
 LOCATION:
 DAUPHIN COUNTY, PA

MARK	DATE	DESCRIPTION

PROJECT NO.	PROJECT
AS BUILT FILE	FILE
DRAWN	DRAWN
CHECKED	CHECKED
DATE	TITLE

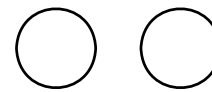


○ FIRST FLOOR
SCALE: N.T.S.

○ SECOND FLOOR/LOW ROOF
SCALE: N.T.S.



CREATED BY:
KEN LORENZ

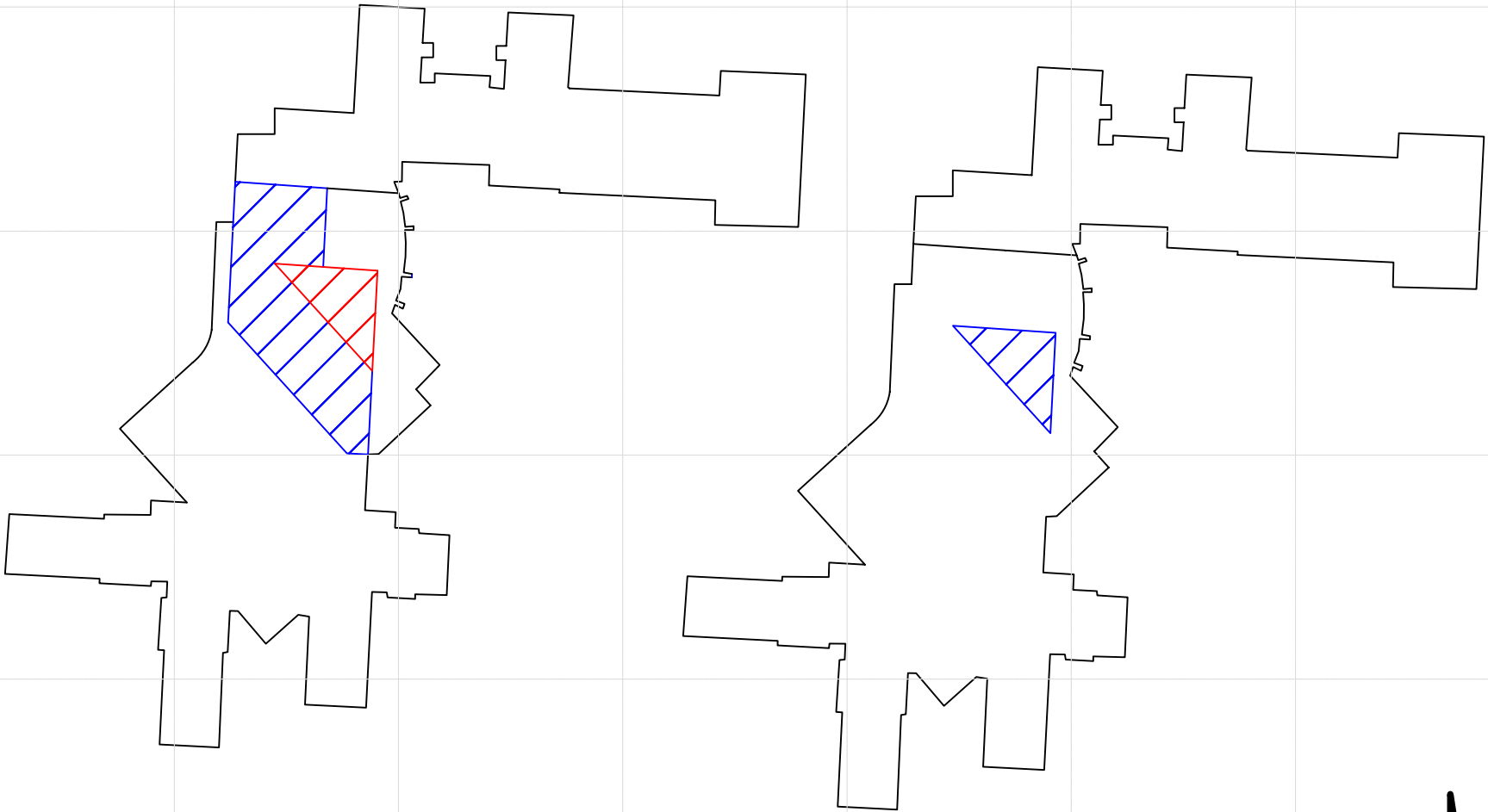


**HEALTH
CARE
CENTER**

OWNER:
ANONYMOUS
LOCATION:
DAUPHIN COUNTY, PA

MARK	DATE	DESCRIPTION

PROJECT NO.	PROJECT
APP. REV. FILE	FILE
DRAWN	DRAWN
CHECKED	CHECKED



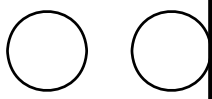
HIGH ROOF/PENHOUSE FLOOR
SCALE: N.T.S.



PENTHOUSE ROOF
SCALE: N.T.S.



CREATED BY:
KEN LORENZ



**HEALTH
CARE
CENTER**

OWNER:
ANONYMOUS
LOCATION:
DAUPHIN COUNTY, PA

MARK	DATE	DESCRIPTION

PROJECT NO.	PROJECT
AS-BUILT FILE	FILE
DRAWN	DRAWN
DESIGNED	CHECKED
NEXT TITLE	CHECKED

APPENDIX E

Detailed General Conditions/Reimbursable Cost Estimate

GENERAL CONDITIONS / REIMBURSABLE COST ESTIMATE						
Code	Description	Notes	QTY	Units	Price	Amount
Personnel				Weeks	\$ / Wk	
1300	Project Executive		1	39	2000	78000
1300	Project Manager		1	96	1500	144000
1300	Superintendent		1	77	1375	105875
1300	Office Engineer		1	82	902	73964
1300	Accountant		1	20	820	16400
1300	Project Assistant		1	72	550	39600
SUBTOTAL PERSONNEL						457839
Field Office Support						
1520	Trailer		24	Month	249	5976
1520	Trailer setup/removal		1	LS	5000	5000
1520	Office cleaning	contracted out	-	-	-	0
1520	Cell phones		24	Month	200	4800
1520	Office furniture		1	LS	5000	5000
1520	Fax		1	LS	250	250
1520	Office supplies		24	Month	83.5	2004
1520	Copiers		1	LS	5000	5000
1520	Cameras		24	Sets	286	6864
1520	Computers/printers		1	LS	5000	5000
1520	Computer programs		1	LS	2000	2000
1520	Postage/mailing		1	LS	2500	2500
1520	Document reproduction		1	LS	10000	10000
1520	Document storage		1	LS	3000	3000
SUBTOTAL FIELD OFFICE SUPPORT						57394
Travel / Relocation / Meals						
1600	Out of town travel		1	LS	2000	2000
1600	Field staff housing		1	LS	10000	10000
1600	Business meals		1	LS	1000	1000
SUBTOTAL TRAVEL / RELOCATION / MEALS						13000
Temporary Utilities						
1510	-	Owner paid	-	-	-	0
SUBTOTAL TEMPORARY UTILITIES						0
Temporary Facilities / Fence / Barricades						
1520	Port a jon	contracted out	-	-	-	0
1560	Temporary fence	contracted out	-	-	-	0
1560	Temporary barricades	contracted out	-	-	-	0
SUBTOTAL TEMPORARY FACILITIES / FENCE / BARRICADES						0
Safety						
1500	Extinguishers	each contractor required by OSHA	-	-	-	0
1500	First Aid		1	LS	500	500
1580	Signs		1	LS	500	500
1500	Hard hats/safety glasses		1	LS	500	500
SUBTOTAL SAFETY						1500

Clean Up						
1740	Supervision	contracted out	-	-	-	0
1740	Pick up truck	contracted out	-	-	-	0
1740	Dumpsters	contracted out	-	-	-	0
1740	Dump chutes	contracted out	-	-	-	0
SUBTOTAL CLEAN UP						0
Tools & Equipment						
1540	Small tools		1	LS	200	200
SUBTOTAL TOOLS & EQUIPMENT						200
Material Handling & Hoists						
1590	Crane	contracted out	-	-	-	0
SUBTOTAL MATERIAL HANDLING & EQUIPMENT						0
SUBTOTAL COST						529933
Insurance						
1350	General Liability					0.44%
TOTAL GENERAL CONDITIONS / REIMBURSABLE COST						763103.5