


INTRODUCTION TO
BLUEPRINT READING

APPA INSTITUTE FOR FACILITIES MANAGEMENT

AIA
Continuing
Education
Provider




1

PRESENTATION OUTLINE

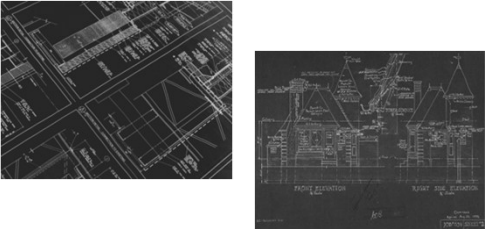
- ▶ DRAWINGS
 - ▶ COVER SHEET
 - ▶ SITE PLANS
 - ▶ ARCHITECTURAL PLANS
 - ▶ ENGINEERING DRAWINGS
 - ▶ DETAILS / SECTIONS / SCHEDULES
- ▶ SPECIFICATIONS
 - ▶ 50 DIVISIONS
- ▶ ADDENDA
- ▶ SUPPLEMENTAL INSTRUCTIONS

2

Why are drawings called Blueprints?



It's an ammonia-based process



3

Why are drawings called Blueprints?



We only print bluelines since the 1970s

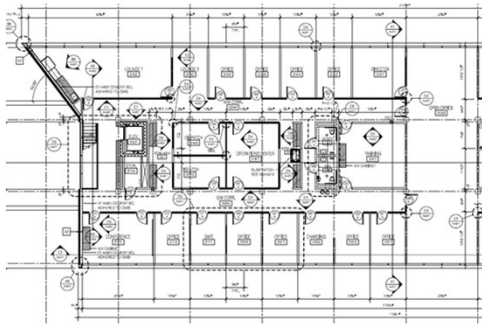
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DRAWING PHASES - Conceptual Schematic Design (SD) Design Development (DD)



5

Construction Documents (CD's)



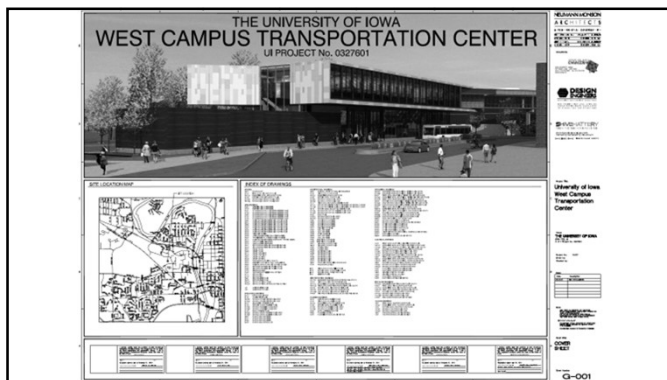
What specific documents comprise the construction documents?

1. Drawings
2. Specifications
3. Contract
4. Addendum
5. Change Directives
6. Change Orders
7. Supplemental Instructions

6

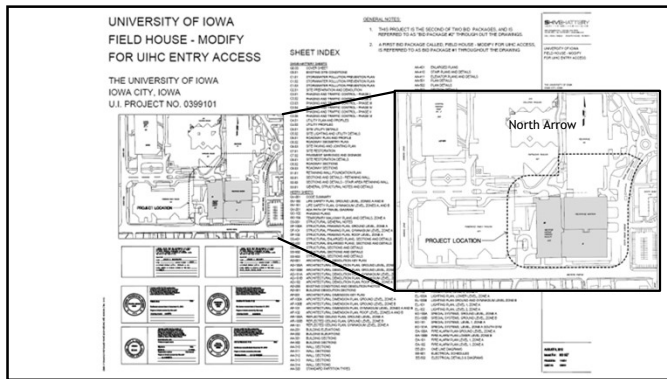
PROJECT TITLE, ARCHITECT/ENGINEER NAME(S), CONTACT INFORMATION,
PROJECT LOCATION MAP, DATE (ISSUED/ BID) AND INDEX OF PLAN SHEETS.

8

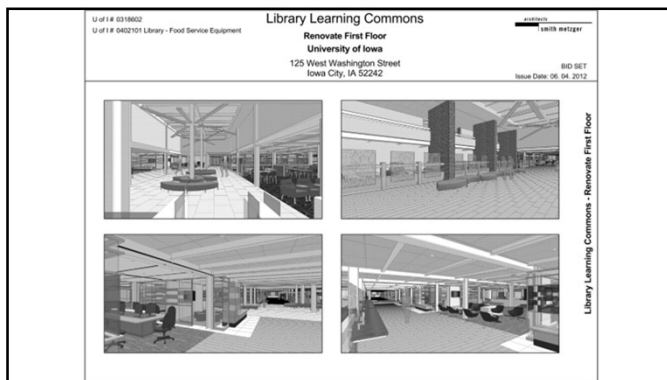


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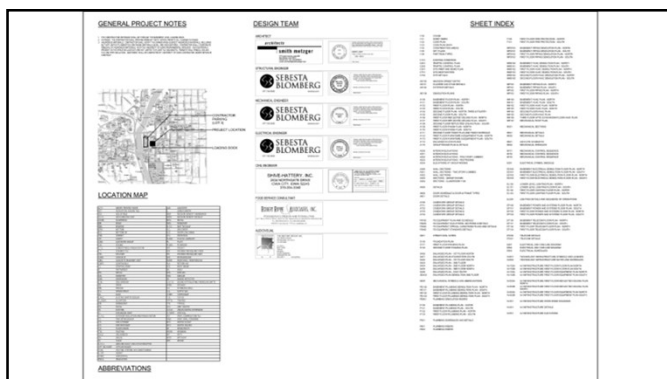




10



11



12



ABBREVIATIONS AND LEGENDS

AS IF THERE AREN'T ENOUGH ACRONYMS IN THIS WORLD...SEEK OUT THE LEGENDS AND ABBREVIATION TABLES.

13

LIST OF ABBREVIATIONS

9	AT	FTG	FOOTING
AL	ALTERNATIVE	GAC	GAGE
ALF	ALFALFA FINISHED FLOOR	H.M.	HOLLOW METAL
BE	BRECK EXPANSION JOINT	HORIZ	HORIZONTAL
BO	BOTTOM	J	J
BRG	BREAST	L	LONG
C	CONTROL	MAN	MANHOLE
CL	CEILING LINE	M.D.	MINIMUM
CLC	CEILING	O.C.	ON CENTER
CLQ	CLEAR	O.D.	OUTSIDE DIAMETER
COL	COLUMN	OPPOSITE	OPPOSITE
CON	CONCRETE	PTD	PARTED
CSL	CORNER	REF	REFERENCE
DA	DIAMETER	REFR	REFRIGERATOR
DO	DOOR OPERATOR	RENF	REINFORCEMENT
EA	EACH	SW	SWITCH
EAH	EACH HOLD OPEN	S.S.	STAINLESS STEEL
E.J.	EXPANSION JOINT	STD	STANDARD
EQ	EQUAL	SUS	SUSPENDED
EQ	EQUAL	TOP	TOP
EXP	EXPANSION	T.O.M.	TOP OF MASSORY
FC	FIRE EXTINGUISHER CABINET	TYP	TYPICAL
FCL	FISHED FLOOR	VERT	VERTICAL
FLR	FLOOR	W/B	WITH

3	CONTROL BOX	B.B.	WOOD BRASS
4	DISPENSER	SP.	SHIEL
5	STVAL	SPR.	SHIELD
6	DAKEE TEN	SPR.	SHIELD
7	DAKEE TEN	SPR.	SHIELD
8	WATER RESISTANT	SPR.	SHIELD
9	WOOD	SPR.	SHIELD
10	WOOD	SPR.	SHIELD
11	WOOD	SPR.	SHIELD
12	WOOD	SPR.	SHIELD
13	WOOD	SPR.	SHIELD
14	WOOD	SPR.	SHIELD
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99	WOOD	SPR.	SHIELD
100	WOOD	SPR.	SHIELD

ABBREVIATIONS

14

LIST OF ABBREVIATIONS

9	AT	FTG	FOOTING
10	ALTERNATIVE	GA	GAGE
11	ALF.	H.M.	HOLLOW METAL
12	BRICK EXPANSION JOINT	HR	HORIZ
13	BRICK	L	LONG
14	B.O.	LOW	LOW
15	BOTTOM OF	LR	LONG RANGE
16	BNS	MB	MASONRY
17	C	M	MINIMUM
18	CJ	C.N.	CENTER
19	CENTER LINE	C.O.	CENTER
20	C.L.	C.D.	CUTSIDE DIAMETER
21	C.L.	OP	OPPOSITE
22	C.L.	P	PAINTED
23	CONC	REF	REFERENCE
24	CONC	REF	REFERENCE
25	CONC	REN	REINFORCEMENT
26	CONC	REN	REINFORCEMENT
27	CONC	REN	REINFORCEMENT
28	CONC	REN	REINFORCEMENT
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97	CONC	REN	REINFORCEMENT
98	CONC	REN	REINFORCEMENT
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100	CONC	REN	REINFORCEMENT


3	CONTROL BOARD	F.B.	NOOF BOARD
4	EXPLOSTOPPER	SP.	SHIPF
5	EXPAL	SPAL	SHIELD
6	EXHAUST LINE	EX.	SHAMAL
7	EXPLOSION	EXP.	SHOCKING SILENCE
8	EXPOSED	A.F.F.	SHOWN ATTENDING FIREBRANDS
9	EXPOSED	SPAL	SPALASH
10	EXPOSED	A.S.	STAND BY STEEL
11	EXPOSED	A.S.	SUPPLY AIR
12	EXPOSED	EX.	TEMPERATURE
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100	EXPOSED	EX.	TEMPERATURE


ABBREVIATIONS


15


ARCHITECTURAL SYMBOLS & ABBREVIATIONS


MATERIAL SYMBOLS


COMPACTED EARTH


PRECAST CONCRETE


PROFILED EARTH


RIGID INSULATION


POROUS FILL


STEEL


BRICK

PLYWOOD


CONCRETE MASONRY UNIT


ROUGH WOOD


CONCRETE


GROUT


REFERENCE INDICATIONS


SECTION IDENTIFICATION


SHEET WIDE SHOWN


BUILDING SECTION


SECTION IDENTIFICATION


SHEET WIDE SHOWN


WALL SECTION


SECTION IDENTIFICATION


SHEET WIDE SHOWN


DETAIL


ELEVATION IDENTIFICATION


SHEET WIDE SHOWN


INTERIOR ELEVATION


OFFICE


ROOM NAME


ROOM NUMBER

ROOM IDENTIFICATION

ELEVATIONS

WALL TYPE

DOOR NUMBER

WINDOW TAG

16

INDEX OF DRAWINGS

JUST LIKE A TABLE OF CONTENTS.
USED TO LOCATE INFORMATION MORE QUICKLY AND ENSURE A COMPLETE SET OF DRAWINGS.

17

TITLE OF CONTENTS

INDEX OF DRAWINGS

GENERAL

G-001 COVER SHEET

G-101 FIRST LEVEL LIFE SAFETY PLAN

G-101.1 MEZANINE LEVEL LIFE SAFETY PLAN

G-102 SECOND LEVEL LIFE SAFETY PLAN

G-102.1 SKYWALK LIFE SAFETY PLAN - WEST

G-102.2 SKYWALK LIFE SAFETY PLAN - EAST

CIVIL DRAWINGS

C1-01 EXISTING SITE CONDITIONS

C1-02 EXISTING SITE CONDITIONS

C1-01 STORMWATER POLLUTION PREVENTION PLAN

C1-02 STORMWATER POLLUTION PREVENTION PLAN

C1-03 STORMWATER POLLUTION PREVENTION PLAN

C1-04 STORMWATER POLLUTION PREVENTION PLAN

C1-05 STORMWATER POLLUTION PREVENTION PLAN

C2-01 CONSTRUCTION PHASING AND TRAFFIC PLAN

C2-02 CONSTRUCTION PHASING AND TRAFFIC PLAN

C2-03 CONSTRUCTION PHASING AND TRAFFIC PLAN

C2-04 CONSTRUCTION PHASING AND TRAFFIC PLAN

C2-05 CONSTRUCTION PHASING AND TRAFFIC PLAN

C2-06 CONSTRUCTION PHASING AND TRAFFIC PLAN

C2-07 CARBON PHASING

C2-08 LONG SPAN BEAM INSTALLATION PHASING

C2-09 FRAMING INSTALLATION GLAZING PHASING

C2-10 FRAMING INSTALLATION GLAZING PHASING

C2-11 AREA PHASING DIAGRAMS

C2-12 AREA PHASING DIAGRAMS

C2-13 AREA PHASING DIAGRAMS

C3-01 SITE PREPARATION AND DEMOLITION PLAN

C3-02 SITE PREPARATION AND DEMOLITION PLAN

G4-01 UTILITY PLAN

G4-02 UTILITY PLAN

G4-11 UTILITY PROFILES

G4-12 UTILITY PROFILES

G6-01 UTILITY DETAILS

G6-02 UTILITY DETAILS

ARCHITECTURAL DRAWINGS

A-001 GENERAL ARCHITECTURAL INFORMATION

A-101 FIRST LEVEL FLOOR PLAN

A-101.1 MEZANINE LEVEL FLOOR PLAN

A-102 SECOND LEVEL FLOOR PLAN

A-102.1 SKYWALK FLOOR PLAN - WEST

A-102.2 SKYWALK FLOOR PLAN - EAST

A-111 FIRST LEVEL REFLECTED CEILING PLAN

A-111.1 REFLECTED CEILING PLAN AT UNDERSIDE OF SKYWALK - WEST

A-111.2 REFLECTED CEILING PLAN AT UNDERSIDE OF SKYWALK - EAST

A-112 SECOND LEVEL REFLECTED CEILING PLAN

A-112.1 SKYWALK REFLECTED CEILING PLAN - WEST

A-112.2 SKYWALK REFLECTED CEILING PLAN - EAST

A-121 ROOF PLAN

A-121.1 SKYWALK ROOF PLAN - WEST

A-121.2 SKYWALK ROOF PLAN - EAST

A-201 EXTERIOR ELEVATIONS

A-202 EXTERIOR ELEVATIONS

A-203 EXTERIOR ELEVATIONS

A-204 EXTERIOR ELEVATIONS

A-211 BUILDING SECTIONS

A-301 WALL SECTIONS

A-302 WALL SECTIONS

A-303 STAIR SECTIONS

A-304 WALL SECTIONS

A-305 WALL SECTIONS

A-401 INTERIOR ELEVATIONS

A-402 INTERIOR ELEVATIONS

A-411 INTERIOR ELEVATIONS

A-412 ENLARGED FLOOR PLANS

A-501 PLAN DETAILS

A-502 PLAN DETAILS

A-503 SECTION DETAILS

A-504 SECTION DETAILS

A-505 SECTION DETAILS

A-506 SECTION DETAILS

A-507 SECTION DETAILS

A-508 SECTION DETAILS

A-509 SECTION DETAILS

18

TABLE OF CONTENTS

SHEET INDEX

I100A	COVER	MD100A	BASEMENT PIPING DEMO PLAN
I010A	CORE PLAN	MD100A	FOURTH FLOOR PIPING DEMO PLAN
A020A	DEMOLITION FLOOR PLAN	MD100A	FIFTH FLOOR PIPING DEMO PLAN
A101A	FLOOR PLAN	MD200A	FIFTH FLOOR HVAC DEMO PLAN
A102A	REFLECTED CEILING PLAN	M100A	BASEMENT PIPING PLAN
A103A	FINISH PLAN	M101A	FIRST AND SECOND FLOOR PIPING PLANS
A104A	FURNITURE PLAN	M104A	FOURTH FLOOR PIPING PLAN
A105A	FIRST FLOOR CIRCULATION DEPARTMENT	M105A	FIFTH FLOOR PIPING PLAN
A106A	FLOOR PLANS - B, 1, 2, 3, 5A	M200A	FIFTH FLOOR & ROOF HVAC PLANS
A107A	ENLARGED PLANS	M010A	MECHANICAL DETAILS
A010A	INTERIOR ELEVATIONS	M020A	MECHANICAL DETAILS
A011A	DETAILS AND CASEWORK	M010A	AIR FLOW SCHEMATIC
A020A	CASEWORK GROUPS (CWG)	M020A	MECHANICAL SCHEDULES
A010A	DOOR SCHEDULE & TYPES	M010A	MECHANICAL CONTROL SEQUENCES
M010A	PARTIAL ROOF FRAMING PLAN	M020A	MECHANICAL CONTROL SEQUENCES
M001A	MECHANICAL SYMBOLS AND ABBREVIATIONS	E001A	ELECTRICAL SYMBOL SCHEDULE
PD100A	THIRD & FIFTH FLOOR PLUMBING DEMO PLANS	EDL100A	FIFTH FLOOR LIGHTING DEMOLITION PLAN
P100A	BASEMENT PLUMBING PLAN AND FIXTURE SCHEDULE	ED100A	FIFTH FLOOR ELECTRICAL DEMOLITION PLAN
P104A	FOURTH FLOOR PLUMBING PLAN	E101A	FIRST FLOOR SUITE 1031 ELECTRICAL PLANS
P105A	FIFTH FLOOR PLUMBING PLAN	EL100A	FIFTH FLOOR LIGHTING PLAN
P010A	PLUMBING RISERS	EP100A	BASEMENT OVERALL ELECTRICAL PLAN
P020A	PLUMBING RISERS	EP100A	FIFTH FLOOR POWER AND SYSTEMS PLAN
F100A	FIFTH FLOOR FIRE PROTECTION	ET100A	FIFTH FLOOR TECHNOLOGY PLAN
		E200A	ELECTRICAL SCHEDULES AND DETAILS
		E201A	ELECTRICAL 208V ONE-LINE DIAGRAM

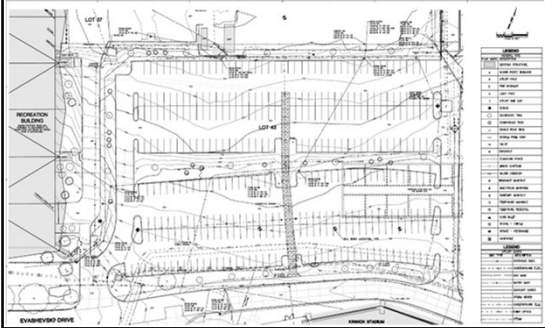
19

SITE DRAWINGS

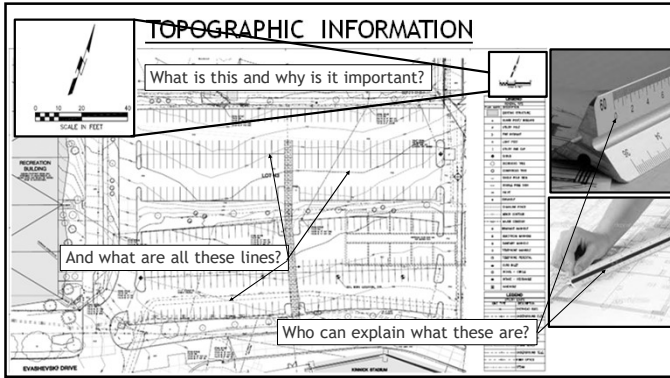
TYPICALLY, "C" SHEETS AND INCLUDE TOPOGRAPHICAL INFORMATION, SOIL BORINGS, SITE DEMOLITION, SITE UTILITY PLANS AND BMP PLANS.

20

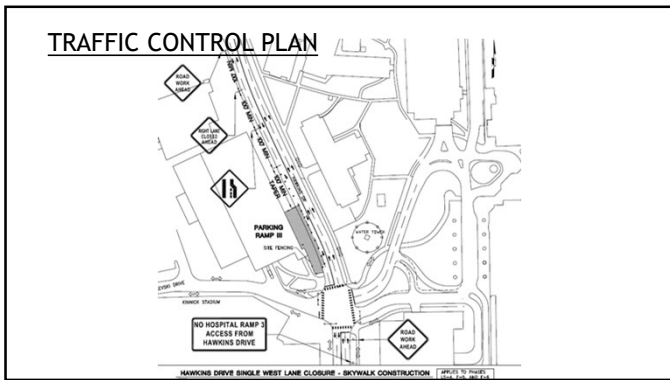
TOPOGRAPHIC INFORMATION



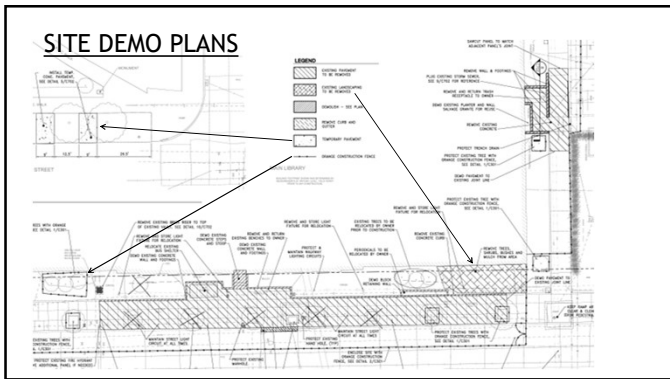
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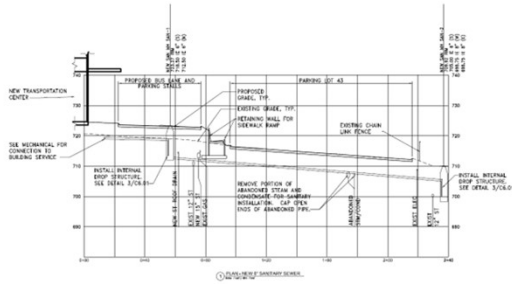


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24

CIVIL & UTILITY PLANS



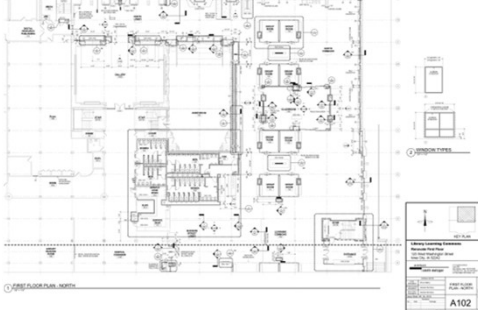
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ARCHITECTURAL DRAWINGS

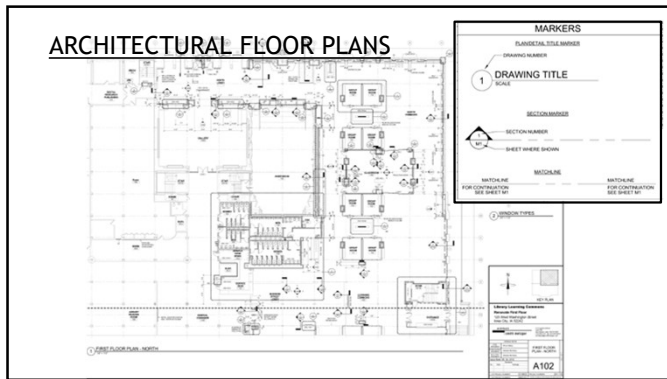
TYPICALLY, "A" SHEETS AND INCLUDE FLOOR PLANS, ELEVATIONS, DETAILS, SCHEDULES AND SECTIONS.

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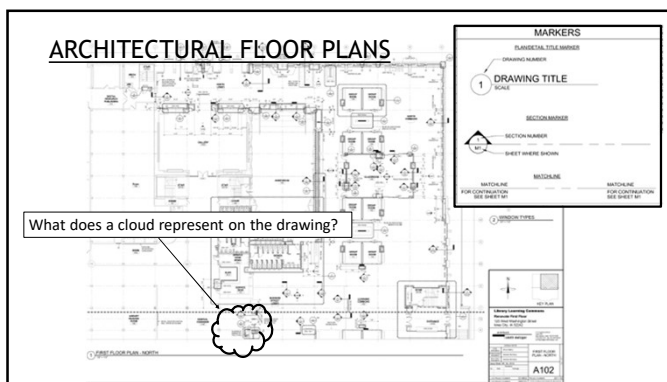
ARCHITECTURAL FLOOR PLANS



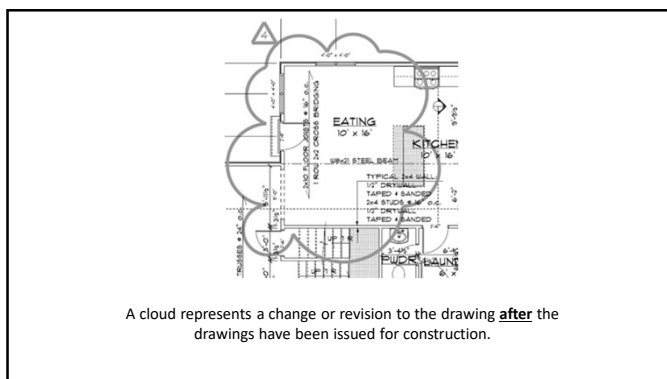
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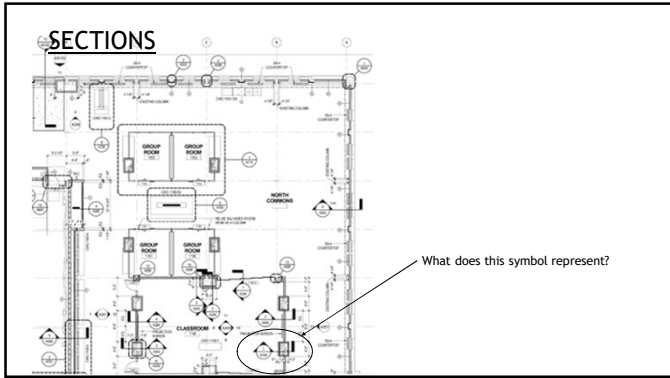
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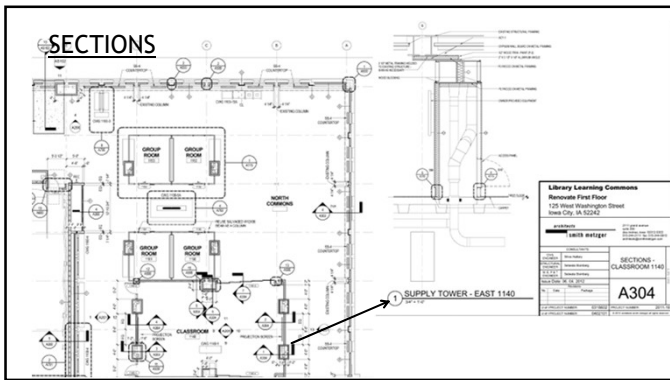
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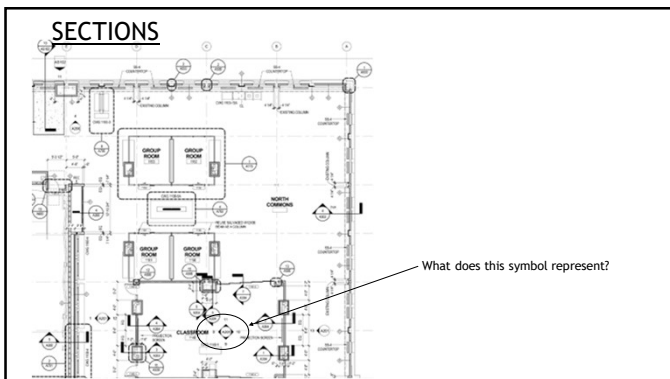
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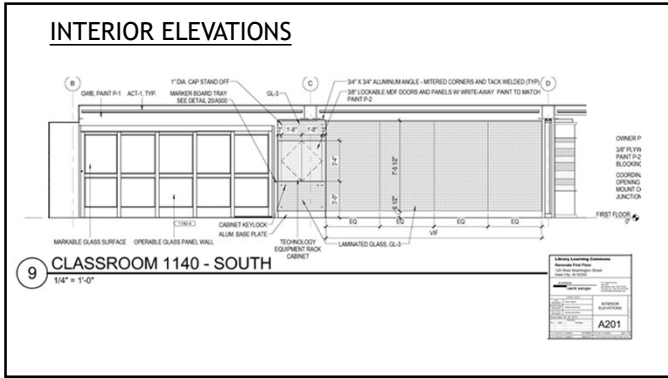
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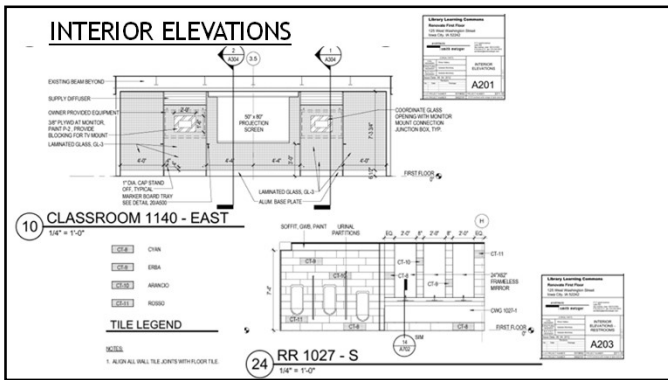
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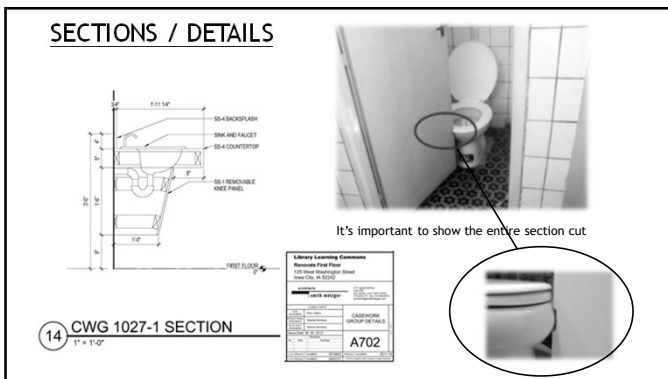
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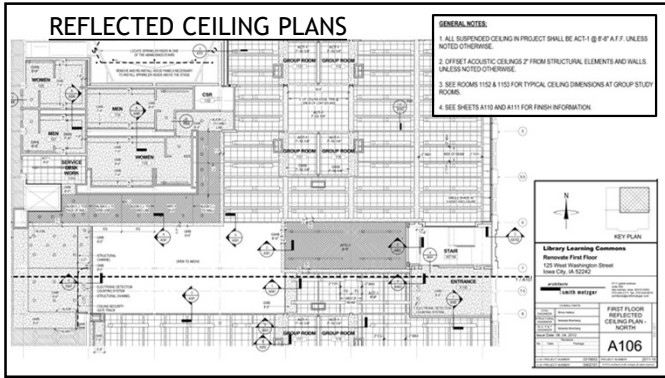
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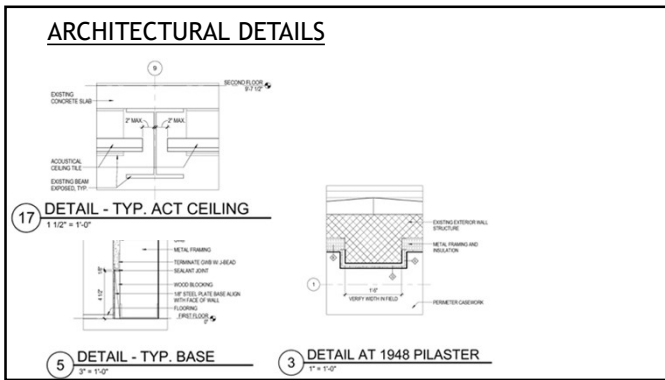
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39

SCHEDULES - ROOM FINISH SCHEDULE

[illegible]

FINISH SCHEDULE

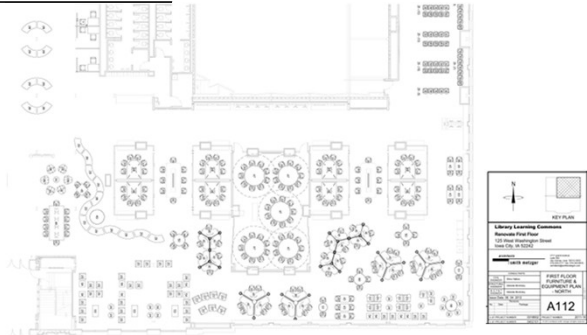
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SCHEDULES - DOOR HARDWARE SCHEDULE

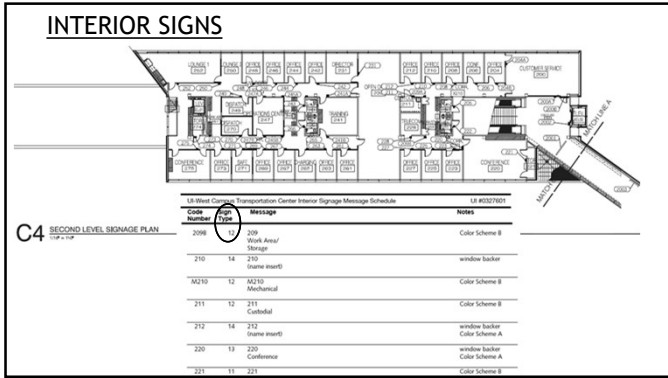
DOOR SCHEDULE													
Door Number	Type	Width	Height	Thickness	Material	Fire Rating	Hardware	Type	Depth	Material	Jamb	Head	Comments
1025	F	3'-0"	7'-10"	1 3/4"	HR	-	06	1	5 3/4"	HR	44000 SBR	11A000 SBR	
1026	F	3'-0"	7'-10"	1 3/4"	HR	-	06	1	5 3/4"	HR	44000 SBR	11A000 SBR	
1027	F	3'-0"	7'-10"	1 3/4"	HR	-	06	1	5 3/4"	HR	44000 SBR	11A000 SBR	
1028	F	3'-0"	7'-10"	1 3/4"	HR	-	06	1	5 3/4"	HR	44000 SBR	11A000 SBR	
1029	F	3'-0"	7'-10"	1 3/4"	EX	-	17B	1	5 3/4"	EX	44000 SBR	11A000 SBR	LOCKET, HOPPY DOOR USING AS SHOWN
1030	F	3'-0"	7'-10"	1 3/4"	HR	-	06	1	5 3/4"	HR	44000 SBR	11A000 SBR	
1031	F	3'-0"	7'-10"	1 3/4"	HR	-	06	1	5 3/4"	HR	44000 SBR	11A000 SBR	
1032	F	3'-0"	7'-10"	1 3/4"	HR	-	06	1	5 3/4"	HR	44000 SBR	11A000 SBR	
1033	F	3'-0"	7'-10"	1 3/4"	HR	-	06	1	5 3/4"	HR	44000 SBR	11A000 SBR	
1034	F	3'-0"	7'-10"	1 3/4"	HR	-	06	1	5 3/4"	HR	44000 SBR	11A000 SBR	
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1038	F	3'-0"	7'-10"	1 3/4"	HR	-	06	1	5 3/4"	HR	44000 SBR	11A000 SBR	
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1100	F	3'-0"	7'-10"	1 3/4"	HR	-	06	1	5 3/4"	HR	44000 SBR	11A000 SBR	
1101	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
1102	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
1103	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
1104	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
1105	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
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1107	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
1108	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
1109	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
1110	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
1111	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
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1115	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
1116	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
1117	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
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1120	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
1121	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
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1129	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
1130	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
1131	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
1132	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
1133	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
1134	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
1135	S	3'-0"	7'-2 3/4"	1 3/4"	ALUM	-	-	-	-	ALUM	-	-	MANUAL CU DOOR
1136	S	3'-0"	7'-2										

41

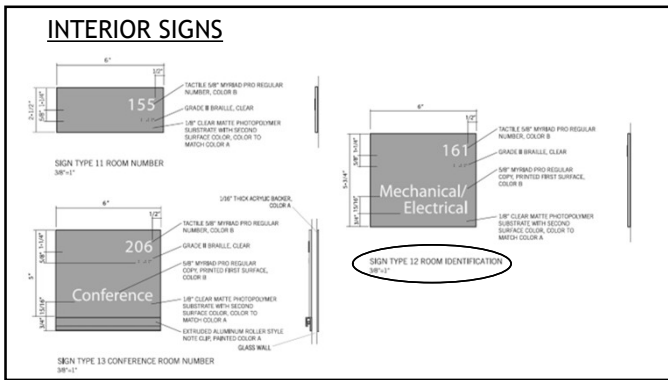
FURNITURE PLAN



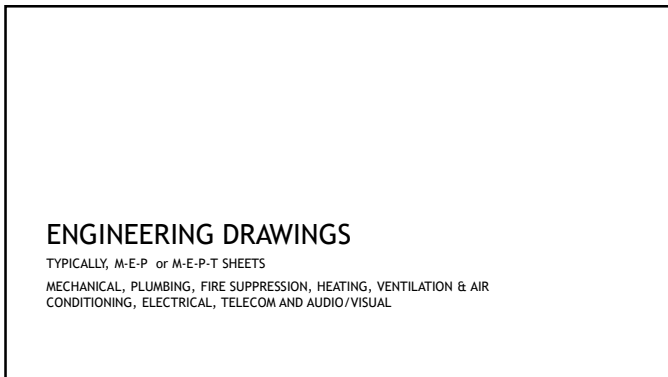
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43



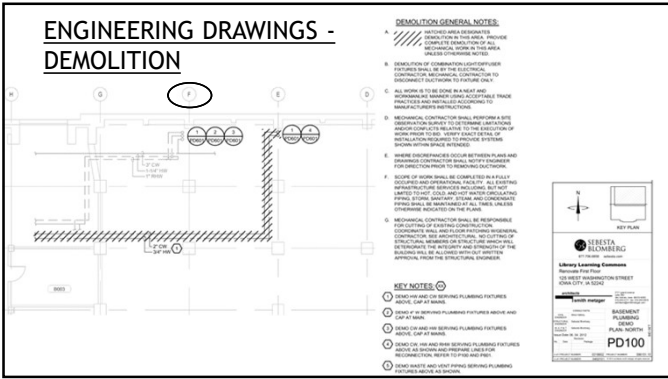
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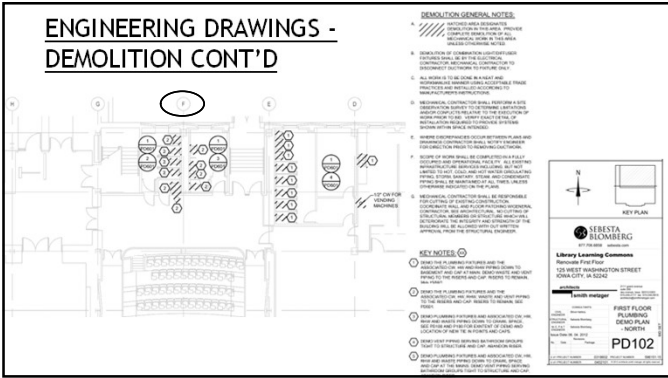
45

ENGINEERING DRAWINGS - ABBREVIATIONS AND LEGENDS				
PIPELINE SYMBOLS		ABBREVIATIONS		
PIPE LINE SYMBOL	SERVICE	ABBREVIATION	DESCRIPTION	
CA	COMPRESSED AIR	CA	DOWN SPOT NOZZLE	
IA	INSTRUMENT AIR	CA	DRINKING FOUNTAIN	
FOR	FUEL OIL RETURN	CR	DRY BULB	
FOS	FUEL OIL SUPPLY	ELEC	ELECTRICAL	
FOV	FUEL OIL VENT	EC	ELECTRICAL CONTRACTOR	
FRW	REAR FRESH WATER	EWS	ELECTRIC WATER COOLER	
CWR	CHILLED WATER RETURN	EL	ELEVATION	
CWS	CHILLED WATER SUPPLY	EAT	ENTERING AIR TEMPERATURE	
RS	REFRIGERANT SUCION	EWT	EXITING WATER TEMPERATURE	
RS	REFRIGERANT SUCION	EQAP	EQUIPMENT	
RWS	REFRIGERANT HOT GAS	ET	EXHAUST FAN	
CTWS	COOLING TOWER SUPPLY	F	F HANDBOOK	
CTWR	COOLING TOWER RETURN	FFM	FEET PER MINUTE	
RWS	HEATING WATER RETURN	FFS	FEET PER SECOND	
LPS	LOW PRESSURE STEAM (15-18 PSI)	FE	FIRE EXTINGUISHER	
LPC	LOW PRESSURE CONDENSATE	FW	FIRE HYDRANT	
MPS	MEDIUM PRESSURE STEAM (15-18 PSI)	FLX	FLEXIBLE	
MPC	MEDIUM PRESSURE CONDENSATE	FAT	FLOAT & THERMOSTATIC	
MPS	HIGH PRESSURE STEAM (15-18 PSI)	FL	FLOOR	
MPC	HIGH PRESSURE CONDENSATE	FOP	FUEL OIL PUMP	
GLV	CONDENSATE	FOS	FUEL OIL SUPPLY	
COND	CONDENSATE	GPM	GALLONS PER MINUTE	
PC	PUMPED CONDENSATE	GV	GALVANIZED	
CW	COLD WATER	GA	GAUGE	
HW	HOT WATER	GEN	GENERAL	
BSW	REAR WASH WATER SUPPLY	GG	GENERAL CONTRACTOR	

46

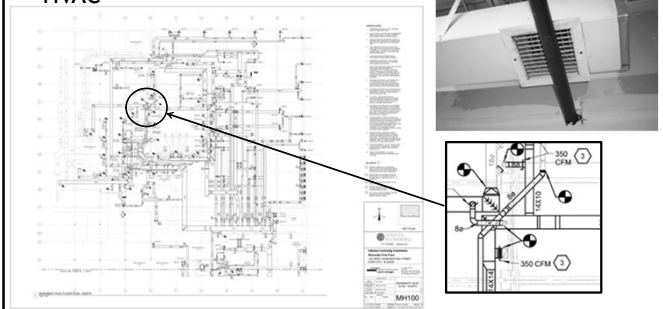


47



48

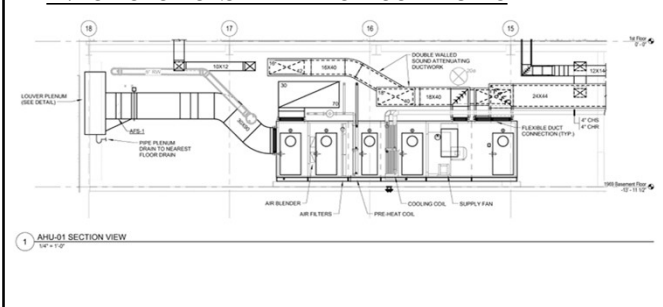
ENGINEERING DRAWINGS - HVAC



49

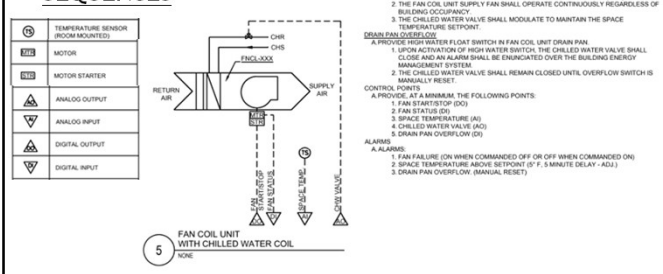
[illegible]

ENGINEERING DRAWINGS - HVAC - SECTIONS / DETAILS / SCHEDULES

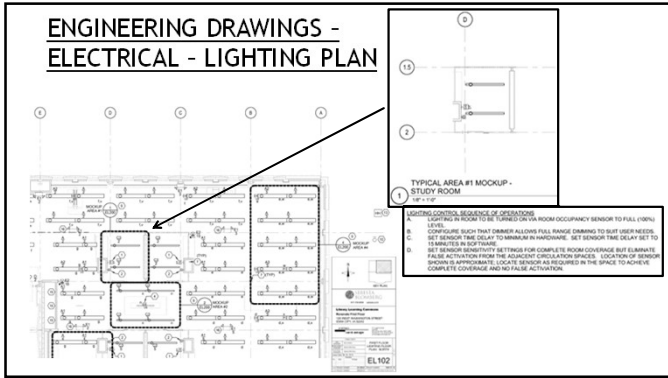


50

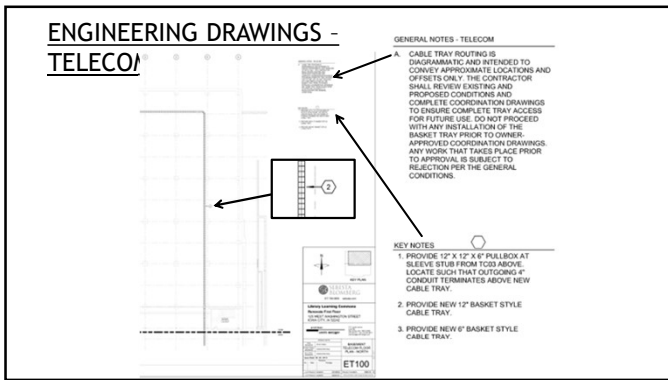
ENGINEERING DRAWINGS - MECHANICAL CONTROL SEQUENCES



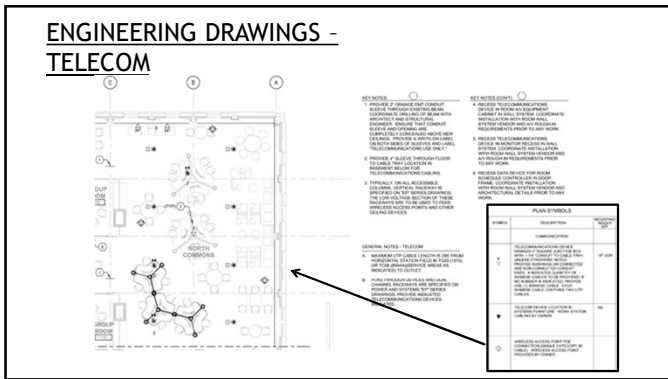
51



55



56



57

58

SPECIFICATIONS

- # ICATIONS
- ▶ FACILITY SERVICES SUPERGROUP
 - ▶ DIVISION 21 - FIRE SUPPRESSION
 - ▶ DIVISION 22 - PLUMBING
 - ▶ FACILITY SERVICES SUPERGROUP CONTINUED
 - ▶ DIVISION 23 - HEATING, VENTILATING AND AIR CONDITIONING
 - ▶ DIVISION 25 - INTEGRATED AUTOMATION
 - ▶ DIVISION 26 - ELECTRICAL
 - ▶ DIVISION 27 - COMMUNICATIONS
 - ▶ DIVISION 28 - ELECTRONIC SAFETY AND SECURITY
 - ▶ SITE AND INFRASTRUCTURE SUPERGROUP
 - ▶ DIVISION 31 - EARTHWORK
 - ▶ DIVISION 32 - EXTERIOR IMPROVEMENTS
 - ▶ DIVISION 33 - UTILITIES
 - ▶ DIVISION 34 - TRANSPORTATION
 - ▶ DIVISION 35 - WATERWAY AND MARINE
 - ▶ PROCESS EQUIPMENT SUPERGROUP
 - ▶ DIVISION 40 - PROCESS INTEGRATION
 - ▶ DIVISION 41 - MATERIAL PROCESSING AND HANDLING EQUIPMENT
 - ▶ DIVISION 42 - PROCESS HEATING, COOLING AND DRYING EQUIPMENT
 - ▶ DIVISION 43 - PROCESS GAS AND LIQUID HANDLING, PURIFICATION AND STORAGE EQUIPMENT
 - ▶ DIVISION 44 - POLLUTION CONTROL EQUIPMENT
 - ▶ DIVISION 45 - INDUSTRY-SPECIFIC MANUFACTURING EQUIPMENT
 - ▶ DIVISION 48 - ELECTRICAL POWER GENERATION
 - ▶ PROCUREMENT AND CONTRACTING EQUIPMENT GROUP
 - ▶ DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS
 - ▶ GENERAL REQUIREMENTS SUPERGROUP
 - ▶ DIVISION 01 - GENERAL REQUIREMENTS
 - ▶ FACILITY CONSTRUCTION SUPERGROUP
 - ▶ DIVISION 02 - EXISTING CONDITIONS
 - ▶ DIVISION 03 - CONCRETE
 - ▶ DIVISION 04 - MASONRY
 - ▶ DIVISION 05 - METALS
 - ▶ DIVISION 06 - WOOD AND PLASTICS
 - ▶ DIVISION 07 - THERMAL AND MOISTURE PROTECTION
 - ▶ DIVISION 08 - OPENINGS
 - ▶ DIVISION 09 - FINISHES
 - ▶ DIVISION 10 - SPECIALTIES
 - ▶ DIVISION 11 - EQUIPMENT
 - ▶ DIVISION 12 - FURNITURE
 - ▶ DIVISION 13 - SPECIAL CONSTRUCTION
 - ▶ DIVISION 14 - CONVEYING EQUIPMENT

SPECIFICATIONS



PROJECT MANUAL
FOR
West Campus Transportation Center - Construct Facility
Project #0327001
THE UNIVERSITY OF KOWA
KOWA CITY, KOWA

PRE-BID CONFERENCE: 1:30 p.m., Central Time, 02/06/11
Room 202 - University Services Building

SITE TOUR Immediately following Pre-Bid Conference

BIDS DUE: 2:00 p.m., Central Time, 09/22/11
The University of Iowa
Blowing Rock, Design & Construction

200 University Services Building
Iowa City, Iowa 52242-1922

DESIGN PROFESSIONAL: Neumann Monson Architects
3000 W. Henderson Avenue, Suite 200
Chicago, IL 60641

The University of Iowa
West Campus Transportation Center – Construct Facility

TABLE OF CONTENTS

- | | |
|--------|--|
| 001010 | DIVISION 6 - PROCUREMENT AND CONTRACTING REQUIREMENTS |
| 001010 | 061000 TABLE OF CONTENTS |
| 001010 | 061010 ADVERTISEMENT FOR BIDS |
| 001010 | 061020 INSTRUCTIONS TO BIDDERS |
| 001010 | 061030 FORM OF BID FOR CONTRACTING CONTRACT |
| 001020 | 062000 SUBMITTAL REQUEST FORM |
| 001020 | 062010 CONTRACT BIDDING FORM |
| 001030 | 063000 EEO DATA REPORTING FORM |
| 001030 | 063010 CONTRACT BIDDING FORM |
| 001040 | 064000 TARGETED SMALL BUSINESS FORM |
| 001040 | 064010 GENERAL CONDITIONS |
| 001040 | 064020 SUPPLEMENTARY CONDITIONS |
| 001040 | 064030 SPECIAL CONDITIONS |
| 001050 | DIVISION 1 - GENERAL REQUIREMENTS |
| 001050 | 011000 SUBMITTAL |
| 001050 | 011010 INTERIM PROTECTION CONTROL MEASURES |
| 001050 | 011020 TEMPORARY EROSION CONTROL MEASURES |
| 001050 | 011030 TEMPORARY STORMWATER POLLUTION CONTROL MEASURES |
| 001050 | 011040 AIR POLLUTION PREVENTION PLAN |
| 001050 | 011050 CERTIFICATION |
| 001050 | 011060 STORMWATER POLLUTION PREVENTION PLAN |
| 001050 | 011070 STORMWATER POLLUTION PREVENTION PLAN |
| 001050 | 011080 CONTRACTOR WASTE MANAGEMENT PLAN |
| 001050 | 011090 CONTRACTOR WASTE MANAGEMENT PLAN |
| 001050 | 011100 CONSTRUCTION WASTE MANAGEMENT AND |
| 001050 | 011110 CONSTRUCTION WASTE MANAGEMENT AND |
| 001050 | 011120 OPERATION AND MAINTENANCE DATA |
| 001050 | 011130 PRODUCT RECORDS |
| 001050 | 011140 COMMISSIONING |
| 001050 | 011150 |
| 002000 | DIVISION 2 - EXISTING CONDITIONS |
| 002000 | 021000 SELECTIVE |
| 002000 | 021010 SELECTIVE SITE DEMOLITION |

59

ADDENDA

ISSUED AFTER PROJECT HAS BEEN ADVERTISED BUT BEFORE BIDS ARE RECEIVED...

60

ACTIVITY QUESTIONS

- ▶ BOYD LAW / ECKSTEIN / CURRIER RESIDENCE / VAN ALLEN
 - ▶ WHAT DOES THE SCOPE OF THE PROJECT COVER?
 - ▶ WHAT TYPE OF FLOORING IS GOING BACK IN?
 - ▶ DOES THE PROJECT INCLUDE ANY
 - ▶ BID ALLOWANCES?
 - ▶ BID ALTERNATES?
 - ▶ UNIT PRICES?
 - ▶ WERE PLANS CHANGED BY ADDENDA?
 - ▶ WHAT IS THE PROJECT DURATION?
 - ▶ WHAT SPECIALTY ITEMS ARE INCLUDED IN THE PROJECT?
 - ▶ IS LIGHTING BEING REPLACED?
 - ▶ IS HVAC BEING UPGRADED?
 - ▶ ARE DOOR AND DOOR FRAMES BEING REPLACED ALONG WITH ACCESS SECURITY UPGRADES?

64



Questions?...

Now let's do an exercise

65
