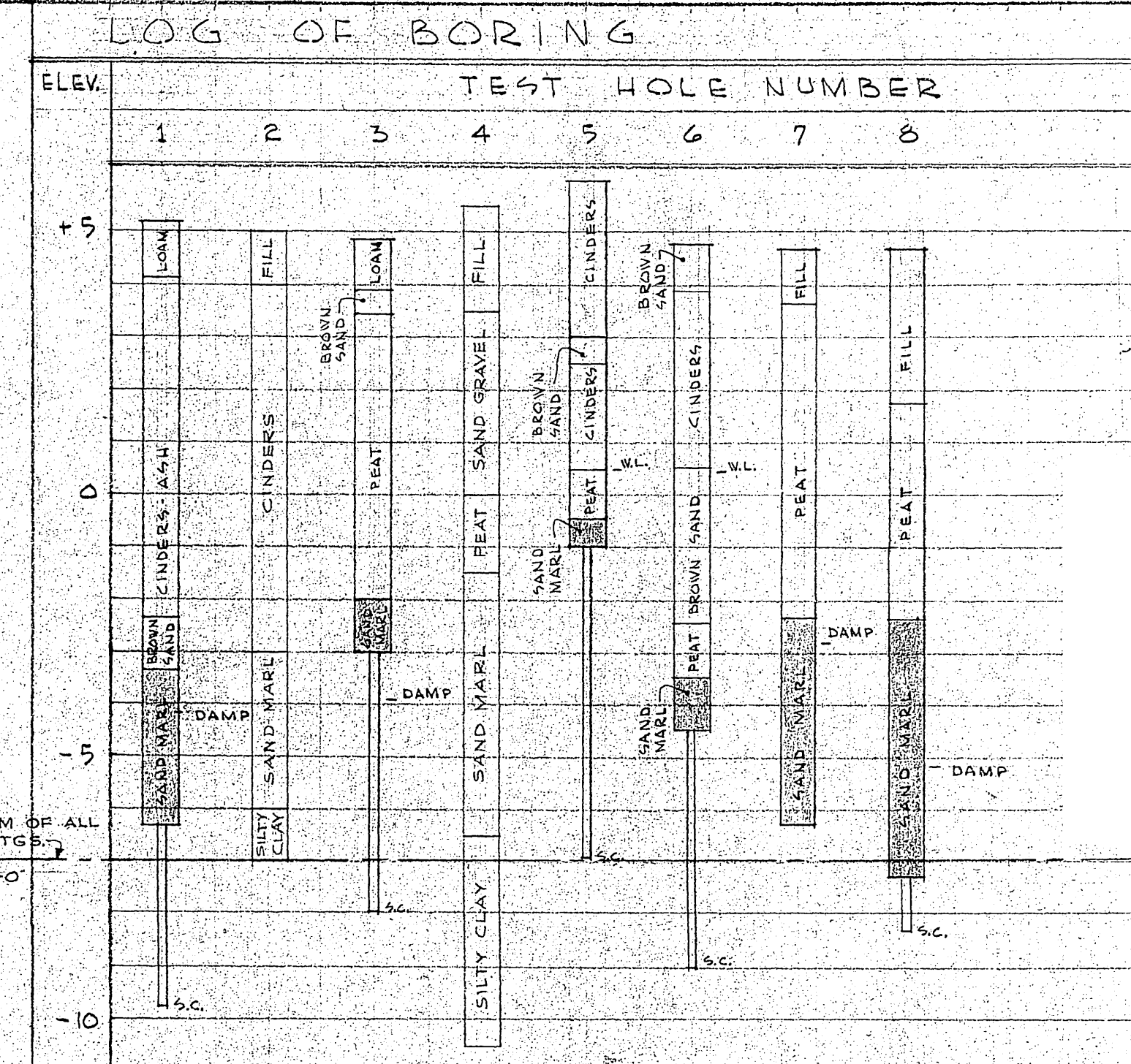
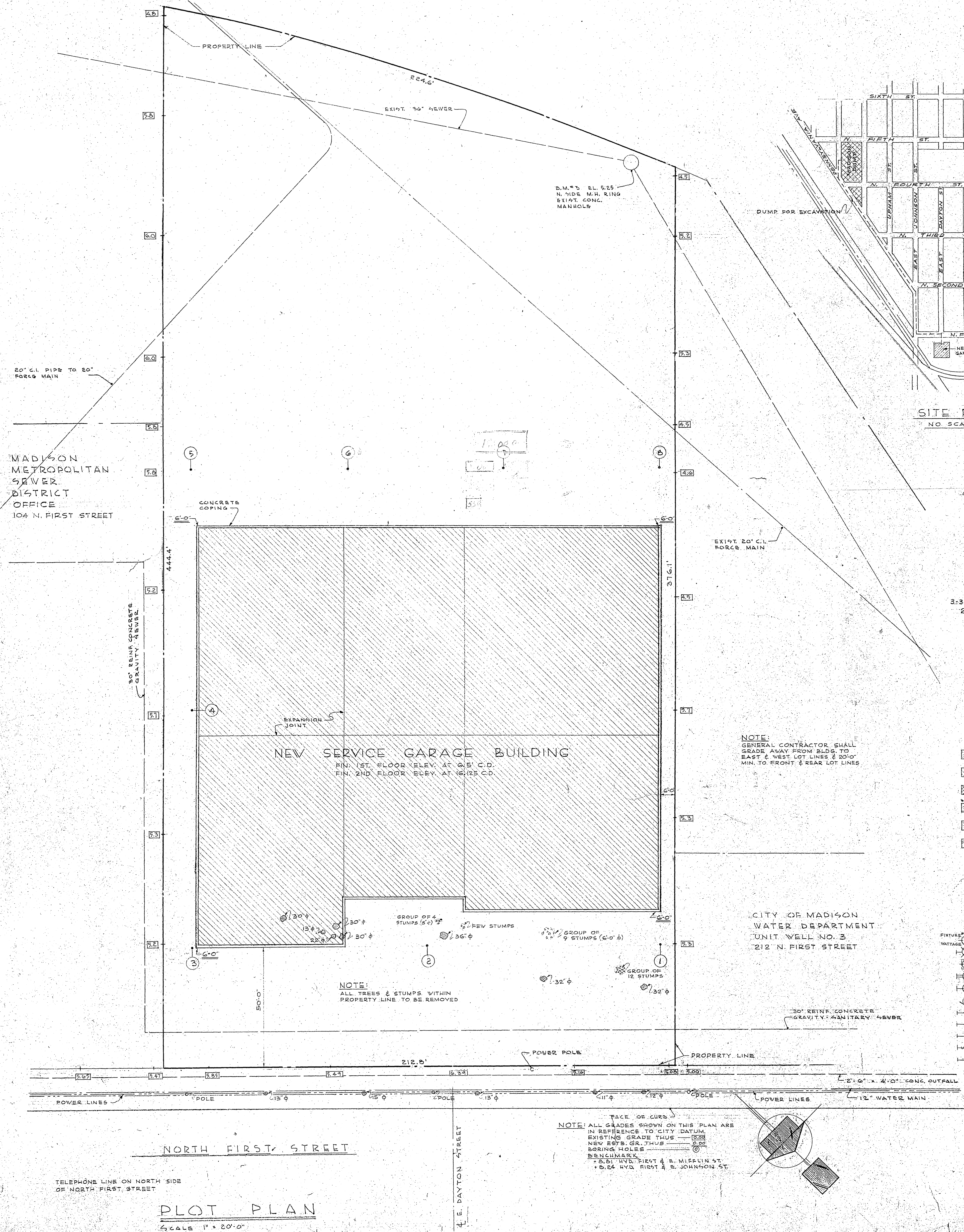
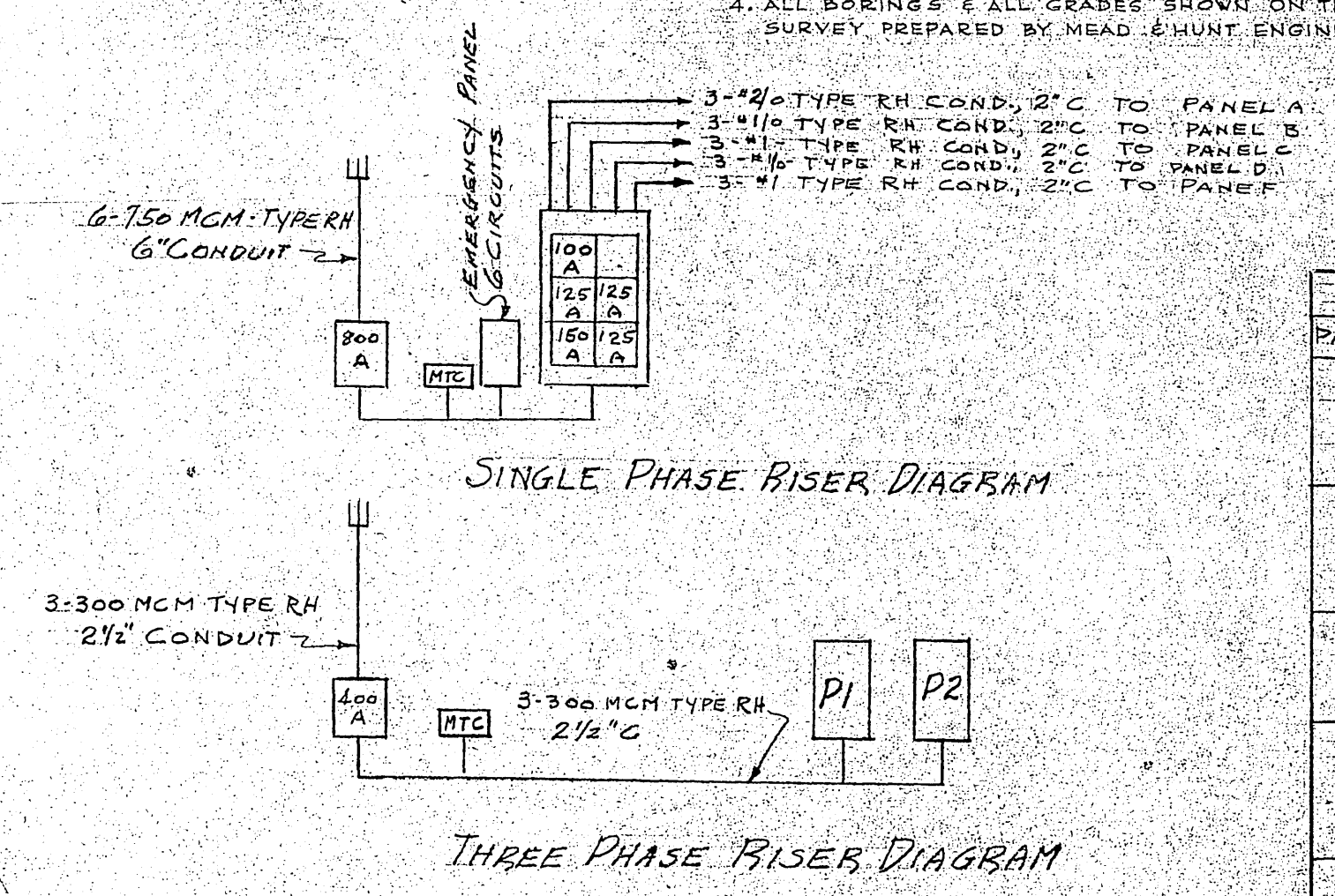


Reference-5: Existing Conditions drawings

1953 - New Construction Documents



NOTES:
1. LARGE HOLES INDICATE BORING DONE WITH 3" OR 6" POST HOLE AUGURS.
2. SMALL HOLES INDICATE BORING DONE WITH 1/2" PIPE. BOTTOM OF AUGUR HOLE DOES NOT INDICATE PRACTICAL DEPTH FROM WHICH SAMPLE COULD BE OBTAINED WITH AUGUR WITHOUT HOLE COLLAPSE.
3. W.L. AND DAMP INDICATE WATER LEVEL CONDITION AFTER HOLES WERE COMPLETED AND STOOD FOR ABOUT ONE HOUR OR MORE.
4. ALL BORINGS & ALL GRADES SHOWN ON THIS SHEET TRANSFERRED FROM SURVEY PREPARED BY MESSRS. HUNT ENGINEERS, UNDER DATE OF DEC. 1952 & MAR. 1953.



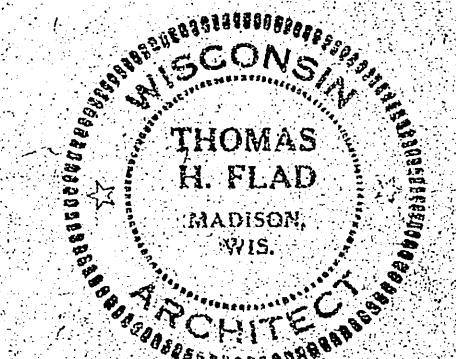
PANEL SCHEDULE			
PANEL	NO. CIRCS.	SPACES	BREAKERS
A	15	3	20A-SP. LIGHTING 20A-SP. CONVE. ENG. 20A-SP. U.H. MOTORS 20A-2P
B	13	3	20A-SP. LIGHTING 20A-SP. CONVE. ENG. 20A-SP. U.H. MOTORS 20A-2P
C	9	2	20A-SP. LIGHTING 20A-SP. U.H. MOTORS 20A-2P
D	10	3	20A-SP. LIGHTING 20A-SP. U.H. MOTORS 20A-2P
F	10	3	20A-SP. LIGHTING 20A-SP. U.H. MOTORS 20A-2P
P1	2	6	50A-SP. WELDING 3P Spaces Only
P2	14	14	3P Spaces Only

Note: Panels P1 & P2 to have 100A Main Breakers with no branch breaker larger than 50A

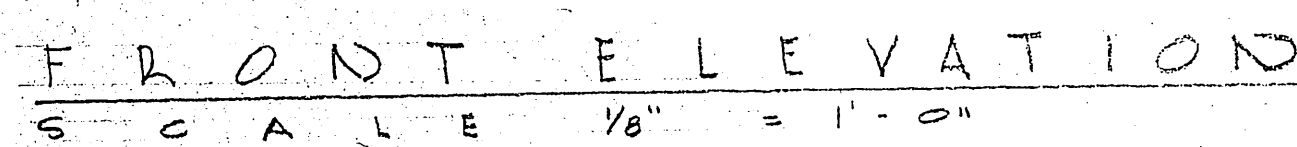
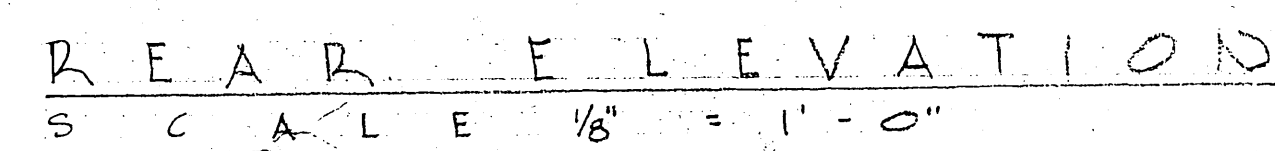
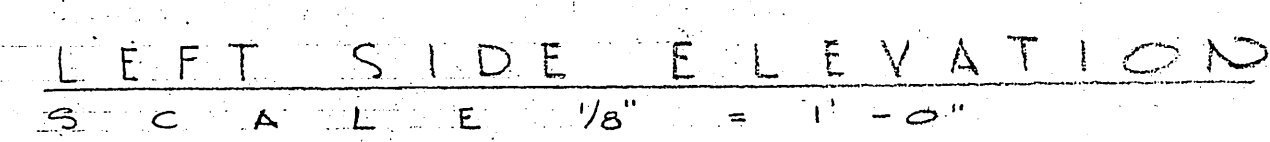
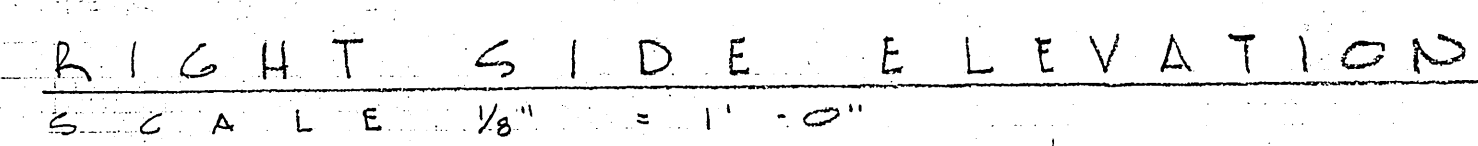
- MATERIAL SYMBOLS**
- CONCRETE
 - BRICK
 - CONC. BLOCK
 - WOOD
 - PLASTER
 - STEEL
 - BLANKET INSULATION
 - RIGID INSULATION
 - EARTH
 - MARBLE
 - QUARRY TILE
 - STRUCT. GLAZED TILE

- MECHANICAL SYMBOLS**
- CEILING LIGHT OUTLET
 - EXIT LIGHT OUTLET
 - RECESSED CEIL. LIGHT OUTLET
 - DUPLEX CONVENIENCE OUTLET (WALL)
 - POWER OUTLET
 - MOTOR OUTLET
 - FIRE ALARM BREAK GLASS STATION
 - FIRE ALARM HORN
 - THERMOSTAT
 - SINGLE POLE SWITCH
 - INTERCOM BOX
 - THREE WAY SWITCH
 - WALL LIGHT OUTLET
 - SPECIAL PURPOSE OUTLET
 - OUTSIDE TELEPHONE
 - ELECTRIC PANEL
 - LOCK SWITCH
 - HOSE BIBB
 - FLOOR DRAIN
 - GAS OUTLET
 - COMP. AIR COCK

NOTE: ALL GRADES SHOWN ON THIS PLAN ARE IN REFERENCE TO CITY DATUM. EXISTING GRADE THUS — 5.29 NEW ELEV. GR. THUS — 5.29 BORING HOLES — 5.29 BENCHMARK — 5.29 1/2" HYD. FIRST & E. JOHNSON ST. — 5.24 1/2" HYD. FIRST & E. JOHNSON ST.

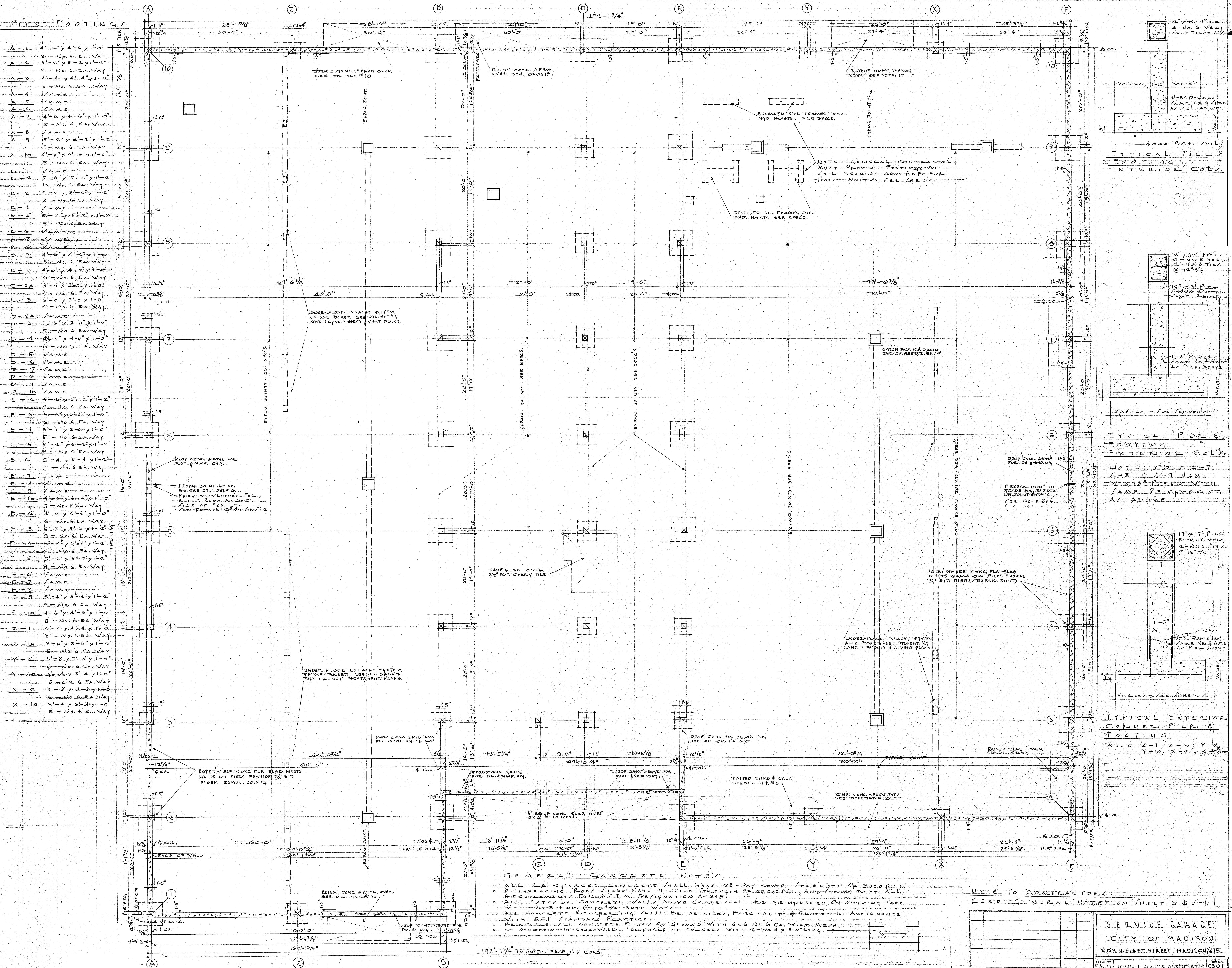


SERVICE	
CITY OF MADISON	
202 N. FIRST STREET, MADISON, WIS.	
DATE	NOV 1953
BY	JOHN J. FLAD & ASSOCIATES
FOR	ARCHITECTS & ENGINEERS
202 West Madison Street, Madison, Wisconsin	



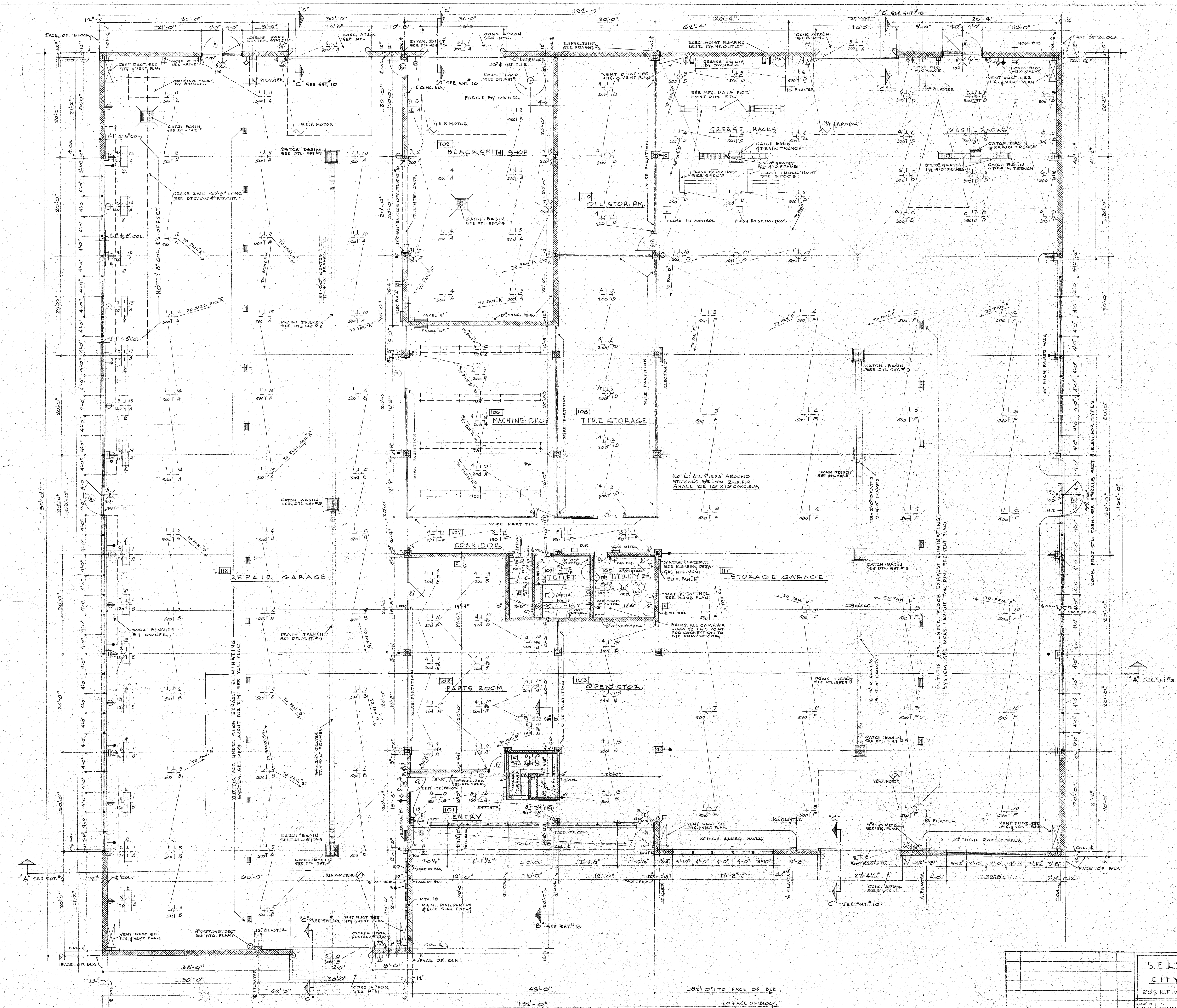
NOTE! ALL SECTIONS MARKED THUS (00—
MAY BE LOCATED ON SHEET NO. 8

				SERVICE GARAGE	
				CITY OF MADISON	
				202 N. FIRST STREET-MADISON	
				DRAWING BY E. K. LA CHECKED BY J. H. LA	JOHN J. FLAD & ASSO ARCHITECTS & ENGINE 908 West Johnson Madison
NO.	SUBJECT	BY	DATE	CHECKED BY	DATE
	REVISIONS				

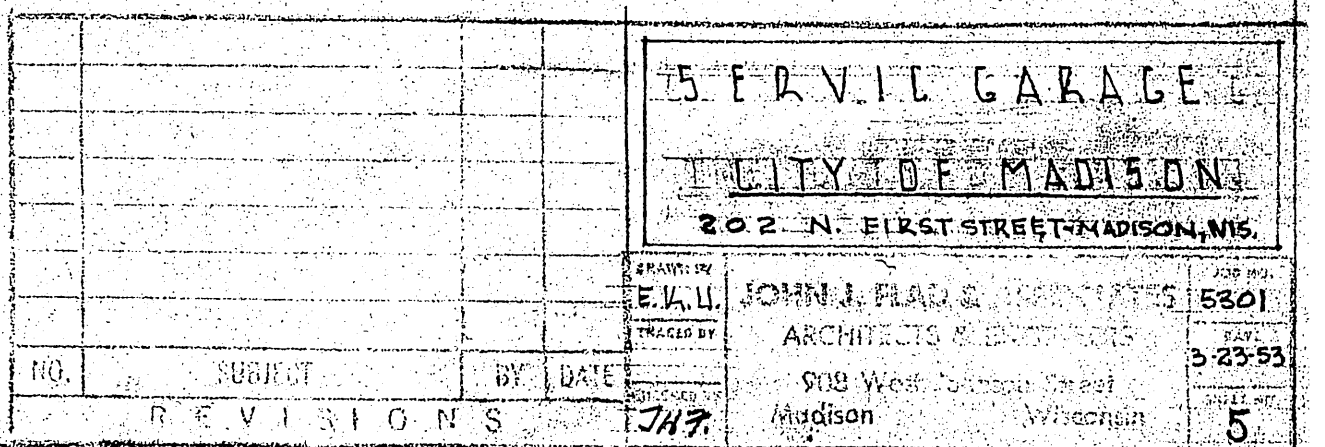


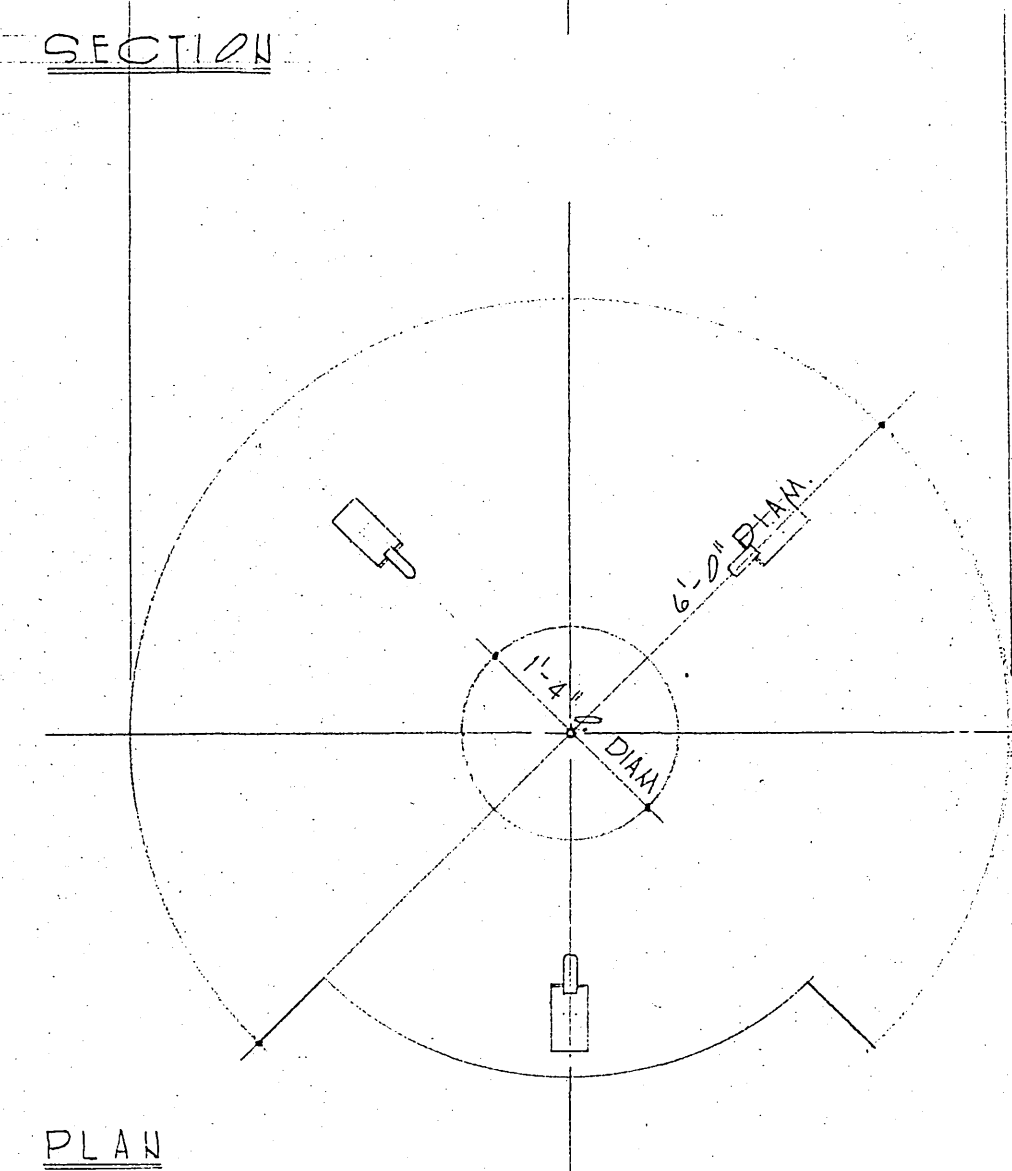
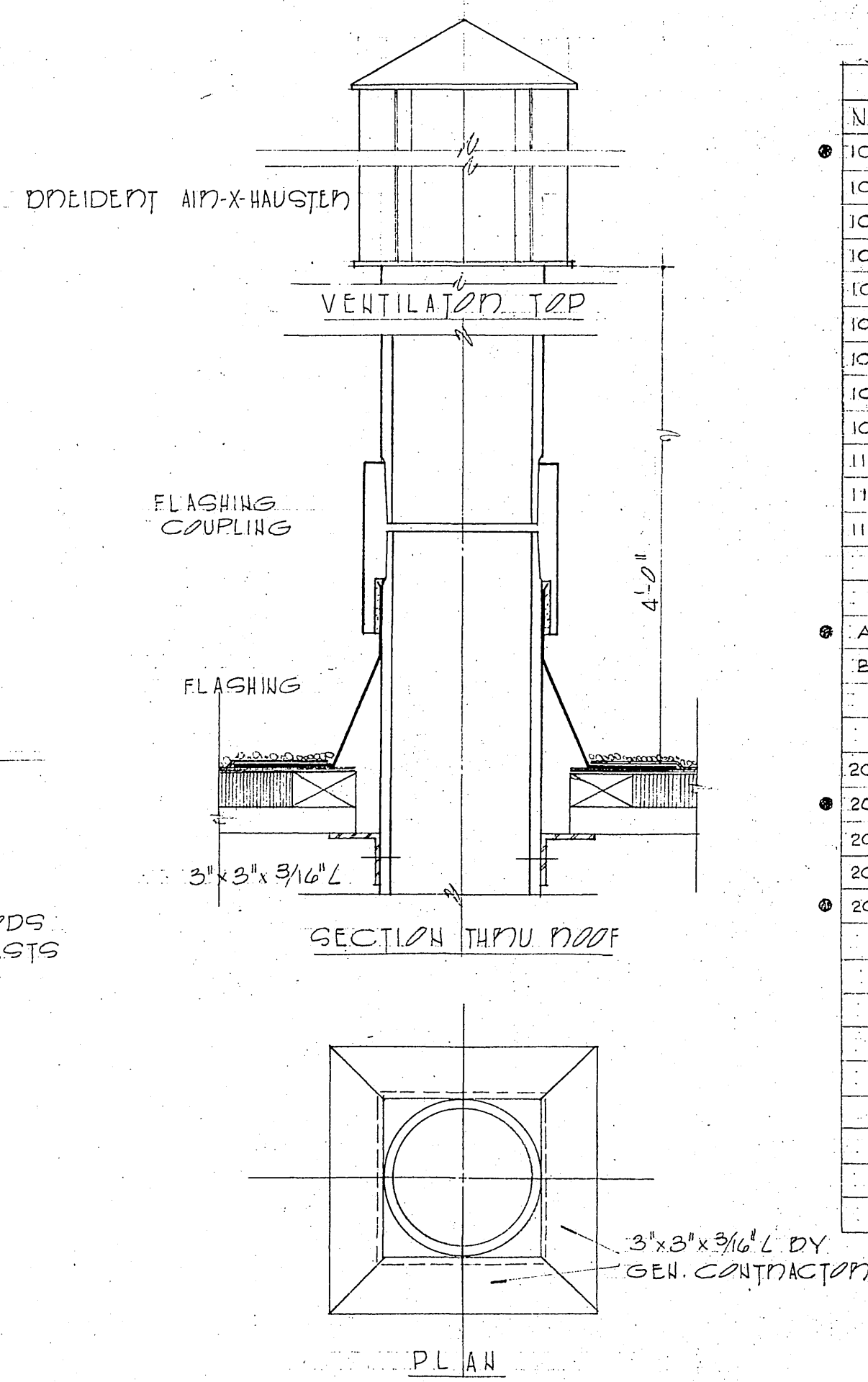
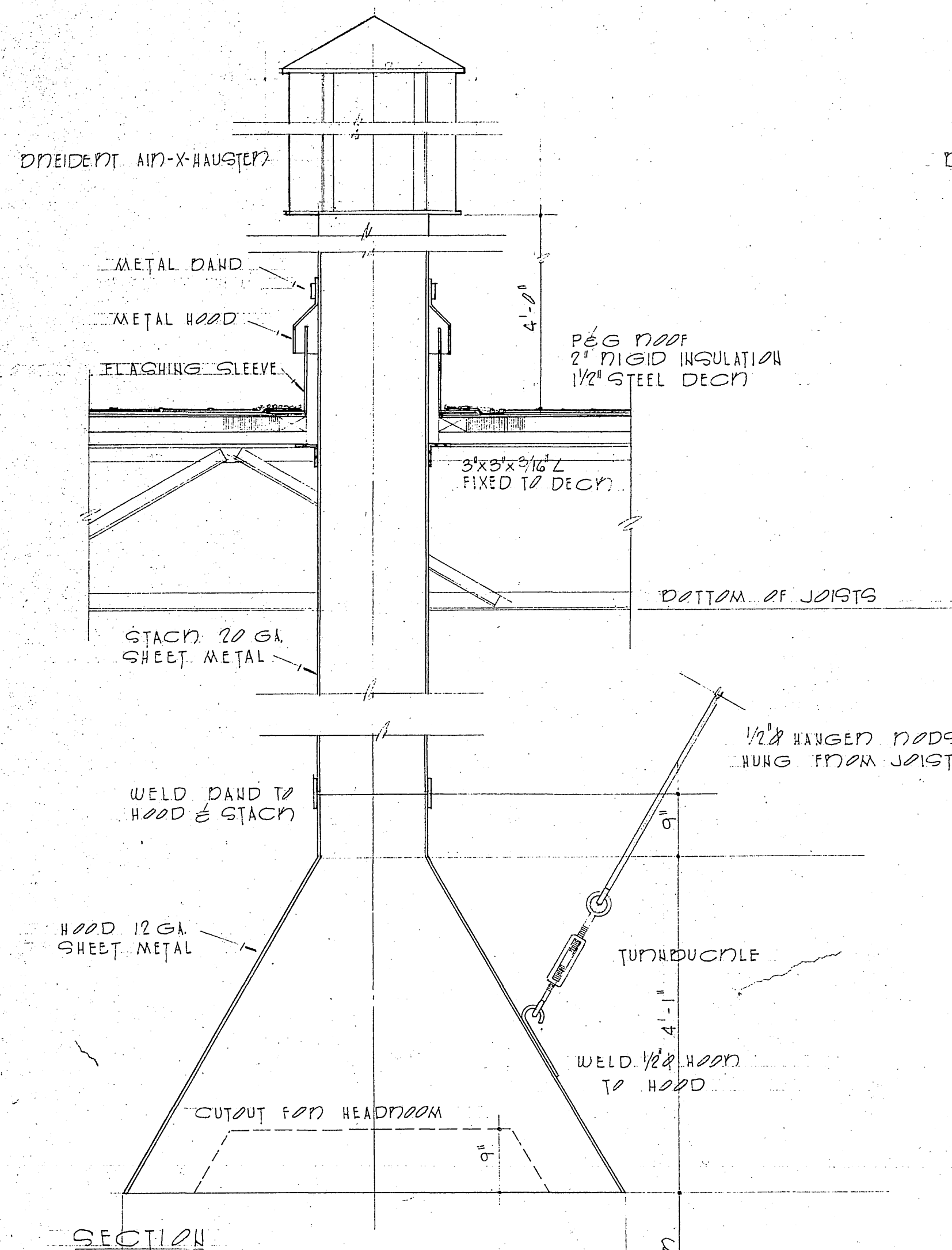
FOUNDATION PLAN
SCALE 1/8" = 1'-0"

NOTE: ALL ABOVE FOOTINGS HAVE BEEN DESIGNED FOR 4000 P.S.F.
IF ACTUAL SOIL CONDITIONS DO NOT PERMIT THIS VALUE, FOOTINGS MUST BE REDESIGNED

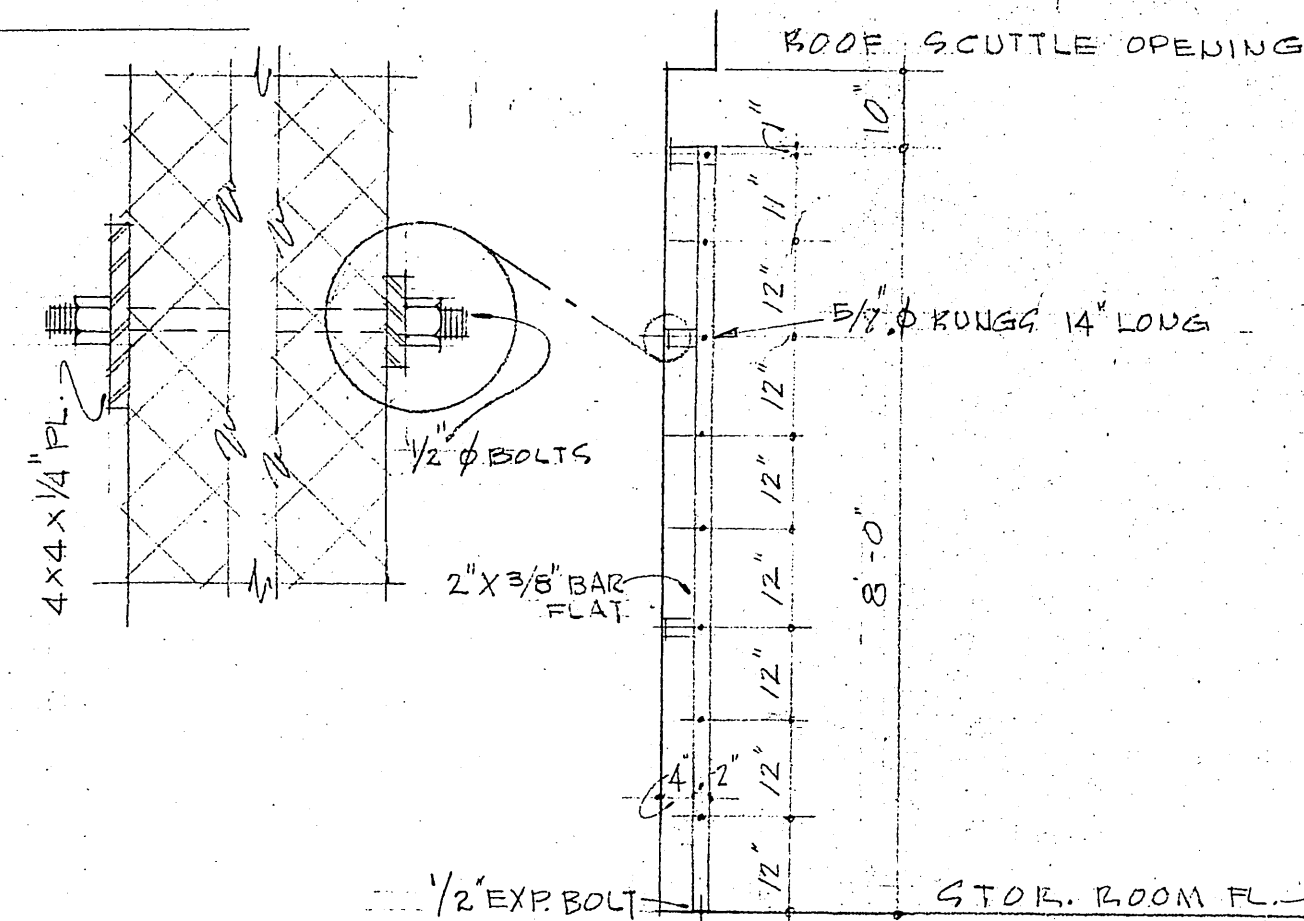


SERVICE GARAGE CITY OF MADISON 202 N. FIRST STREET - MADISON, WIS.			
DRAWN BY E.K.U.	CHECKED BY J.H.	DATE 1/1/50	JOB NO. 5301
ARCHITECTS & ENGINEERS 908 West Johnson Street Madison, Wisconsin			
NO.	SUBJECT	BY	DATE
REVISIONS			

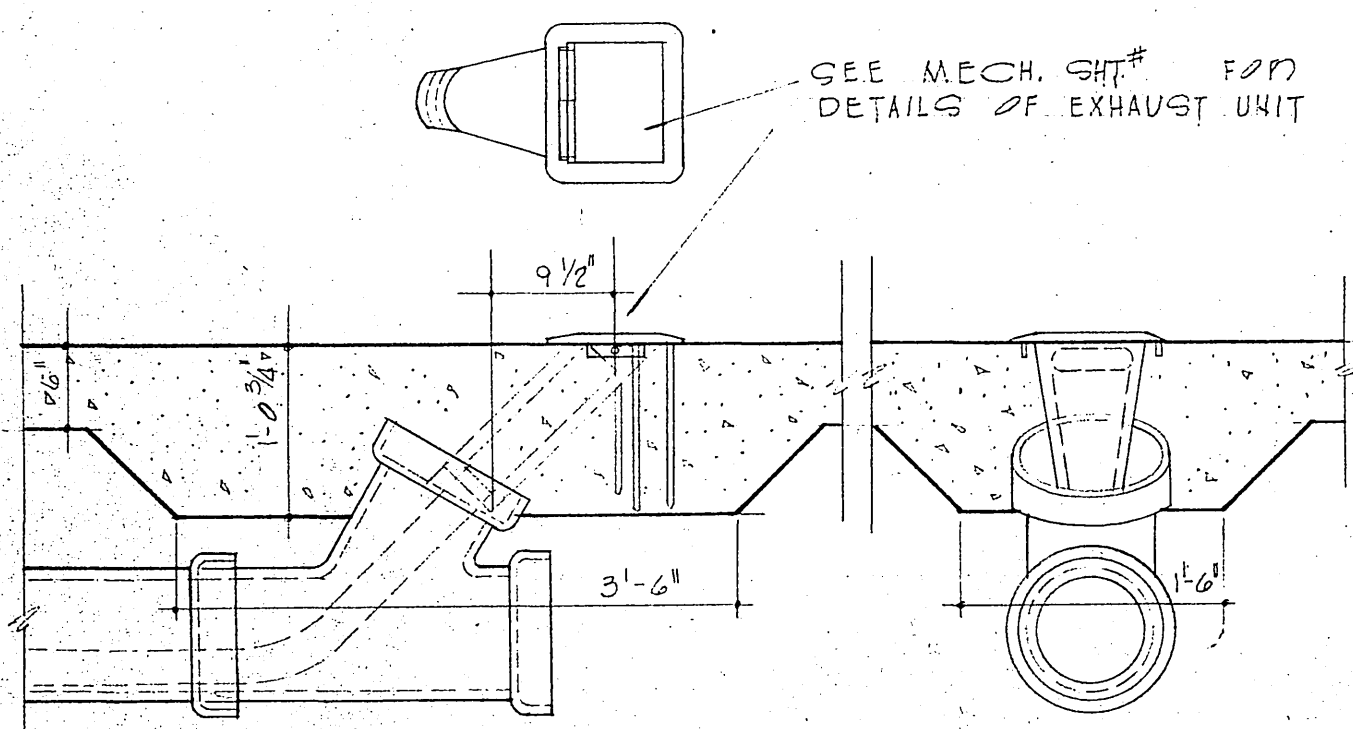




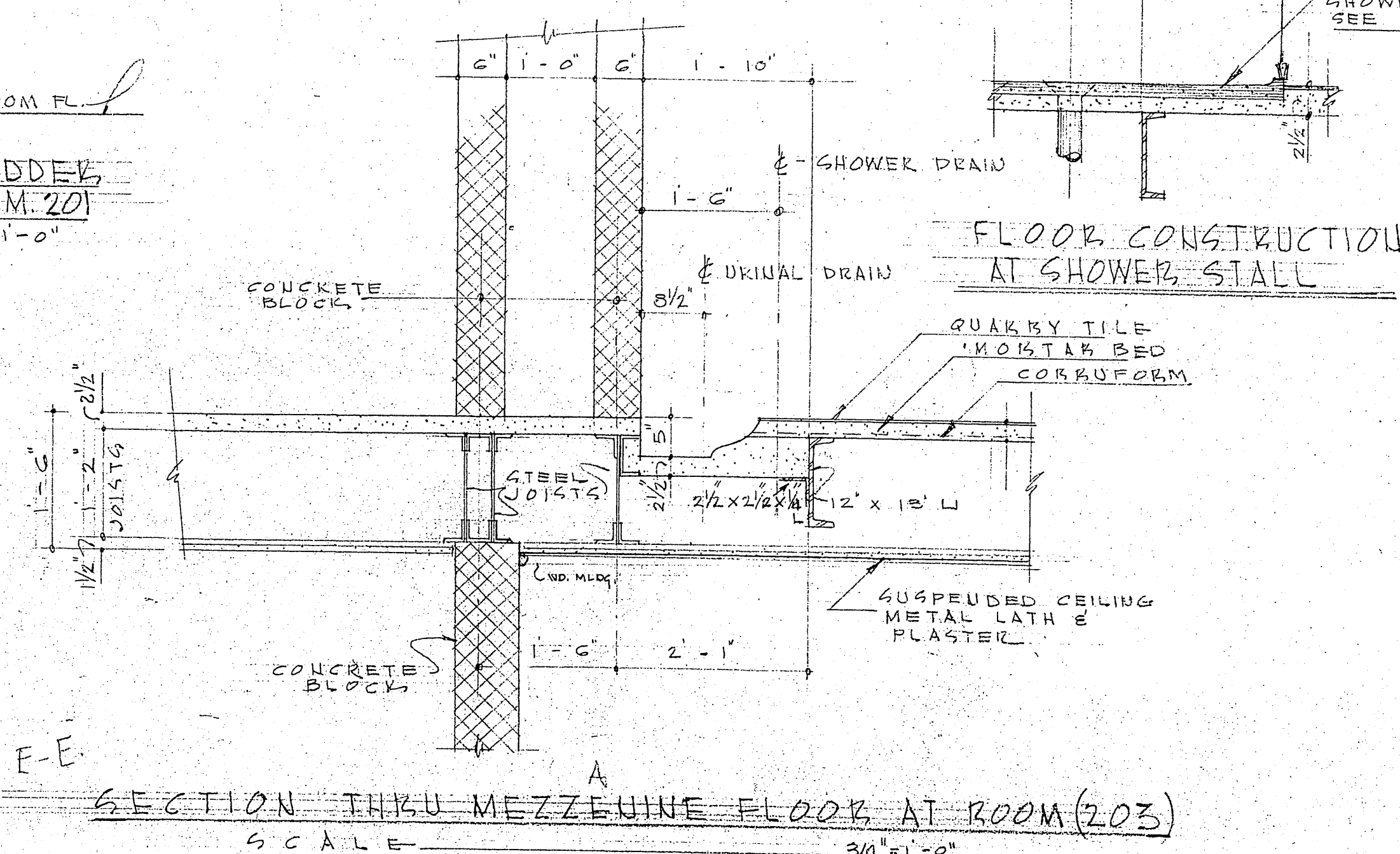
DETAIL OF FORGE HOOD IN
BLACKSMITH SHOP ROOM
SCALE 3/4" = 1'-0"



DETAIL OF STEEL LADDER
TO ROOF SCUTTLE R.M. 201
SCALE 1/2" = 1'-0"



DETAIL SHOWING FLOOR CONSTRUCTION AT
UNDERSLAB EXHAUST UNITS
SCALE 1/2\"/>



SECTION THRU MEZZENINE FLOOR AT ROOM (203)
SCALE 3/4" = 1'-0"

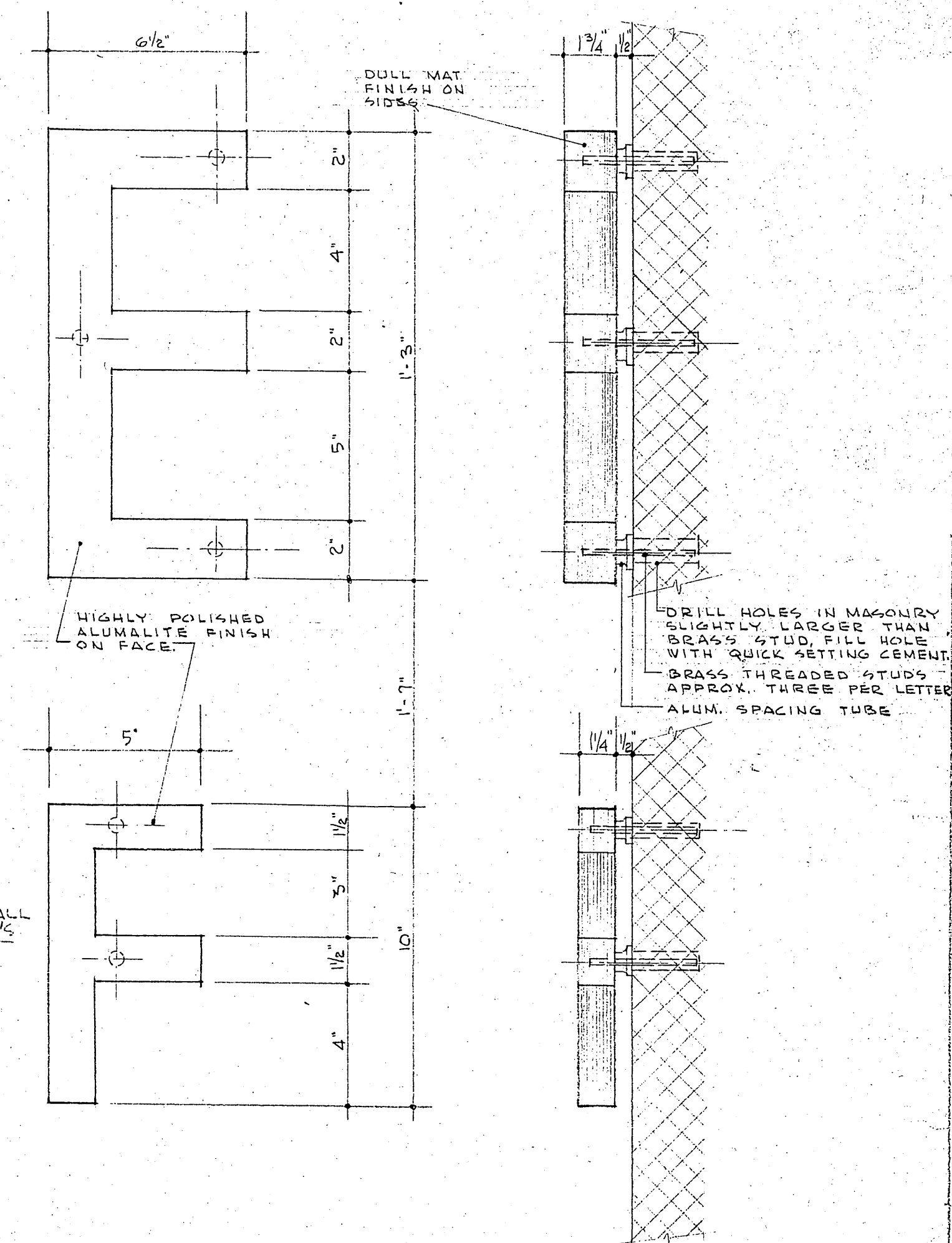
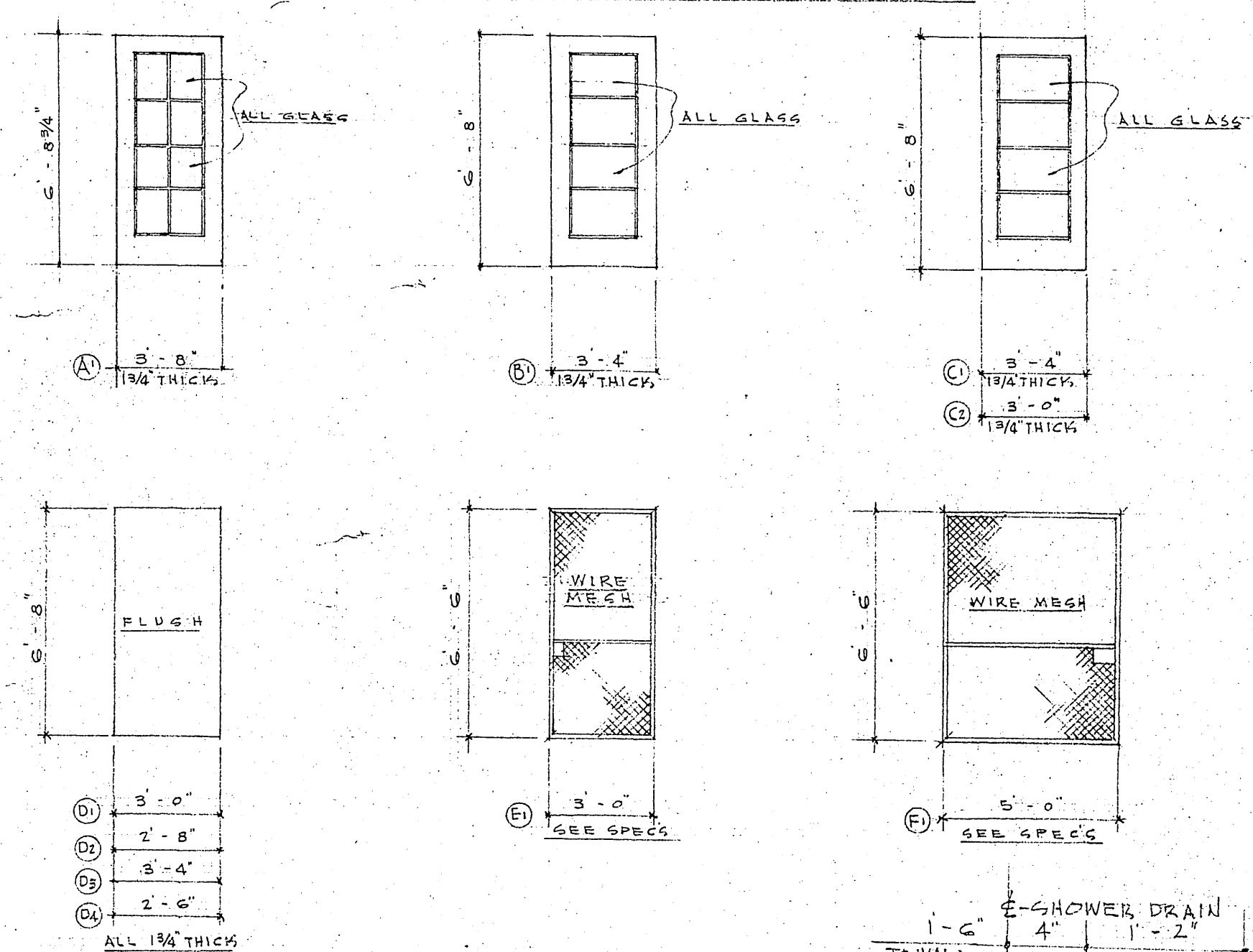
ROOM FINISH SCHEDULE

ROOM NO	FLOOR	BASE	WALLS	VAINSCOT	CEILING	TRIM	REMARKS
NAME	MATERIAL	FIN.	MATERIAL	FIN.	MATERIAL	FIN.	
101 ENTRY	CONC.	HRDNR	CONC. BLK.	2 PT.	5'-4" GL. ST. TILE	GYP. PLAST. 2 PT.	* MET. DRS & BUCKS. BULL. BOARD.
102 PARTS ROOM	CONC.	HRDNR	CONC. BLK.	2 PT.	5'-4" GL. ST. TILE	GYP. PLAST. 2 PT.	* MET. DRS & BUCKS. WIRE PART. - SEE SPEC'S.
103 OPEN STORAGE	CONC.	HRDNR	CONC. BLK.	2 PT.	5'-4" GL. ST. TILE	GYP. PLAST. 2 PT.	* MET. DRS & BUCKS. WIRE PART. - SEE SPEC'S.
104 TOILET	QUARRY TILE	CONC.	CONC. BLK.	2 PT.	5'-4" GL. ST. TILE	KEENE CEM. 3ENAM	* MET. DRS & BUCKS. - MET. TOILET STALLS
105 UTILITY ROOM	CONC.	HRDNR	CONC. BLK.	2 PT.	5'-4" GL. ST. TILE	GYP. PLAST. 2 PT.	* MET. DRS & BUCKS.
106 MACHINE SHOP	CONC.	HRDNR	CONC. BLK.	2 PT.	5'-4" GL. ST. TILE	GYP. PLAST. 2 PT.	* WIRE PART. - SEE SPEC'S.
107 CORRIDOR	CONC.	HRDNR	CONC. BLK.	2 PT.	5'-4" GL. ST. TILE	GYP. PLAST. 2 PT.	* MET. BUCKS & DOORS - WIRE PART. - SEE SPEC'S.
108 TIRE STORAGE	CONC.	HRDNR	CONC. BLK.	2 PT.	5'-4" GL. ST. TILE	GYP. PLAST. 2 PT.	* WIRE PART. - SEE SPEC'S.
109 BLACKSMITH SHOP	CONC.	HRDNR	CONC. BLK.	2 PT.	5'-4" GL. ST. TILE	EXPOS. STL. JSTS. 2 PT.	* FORGE HOOD - SEE DTL.
110 OIL STORAGE RM.	CONC.	HRDNR	CONC. BLK.	2 PT.	5'-4" GL. ST. TILE	GYP. PLAST. 2 PT.	* WIRE PART. - SEE SPEC'S.
111 STOR. GARAGE	CONC.	HRDNR	CONC. BLK.	2 PT.	5'-4" GL. ST. TILE	EXPOS. STL. JSTS. 2 PT.	* MET. BUCKS & DOORS
112 REPAIR GARAGE	CONC.	HRDNR	CONC. BLK.	2 PT.	5'-4" GL. ST. TILE	EXPOS. STL. JSTS. 2 PT.	* MET. BUCKS & DOORS
A STAIR HALL	CONC.	HRDNR	CONC. BLK.	2 PT.	5'-4" GL. ST. TILE	GYP. PLAST. 2 PT.	* PIPE HANDRAIL - MET. DRS & BUCKS
B STAIR HALL	CONC.	HRDNR	CONC. BLK.	2 PT.	5'-4" GL. ST. TILE	GYP. PLAST. 2 PT.	* PIPE HANDRAIL - MET. DRS & BUCKS
201 STOR. BALCONY	CONC.	CONC. BLK.	CONC. BLK.	2 PT.	5'-4" GL. ST. TILE	EXPOS. STL. JSTS. 2 PT.	* MET. DRS & BUCKS
202 OFFICE	ASPHALT TILE	WAX	CONC. BLK.	2 PT.	5'-4" GL. ST. TILE	GYP. PLAST. 2 PT.	* MET. DRS & BUCKS - WINDOW TO GARAGE
203 WASHROOM	QUARRY TILE	WAX	CONC. BLK.	2 PT.	5'-4" GL. ST. TILE	KEENE CEM. 3ENAM	* MET. DRS & BUCKS - MET. TOILET STALLS & SHOWERS
204 LOCKER ROOM	ASPHALT TILE	WAX	CONC. BLK.	2 PT.	5'-4" GL. ST. TILE	GYP. PLAST. 2 PT.	* MET. DRS & BUCKS - MET. LOCKERS, WOOD BENCH & PIPE LASS
205 LUNCH ROOM	ASPHALT TILE	WAX	CONC. BLK.	2 PT.	5'-4" GL. ST. TILE	GYP. PLAST. 2 PT.	* MET. DRS & BUCKS

NOTES:

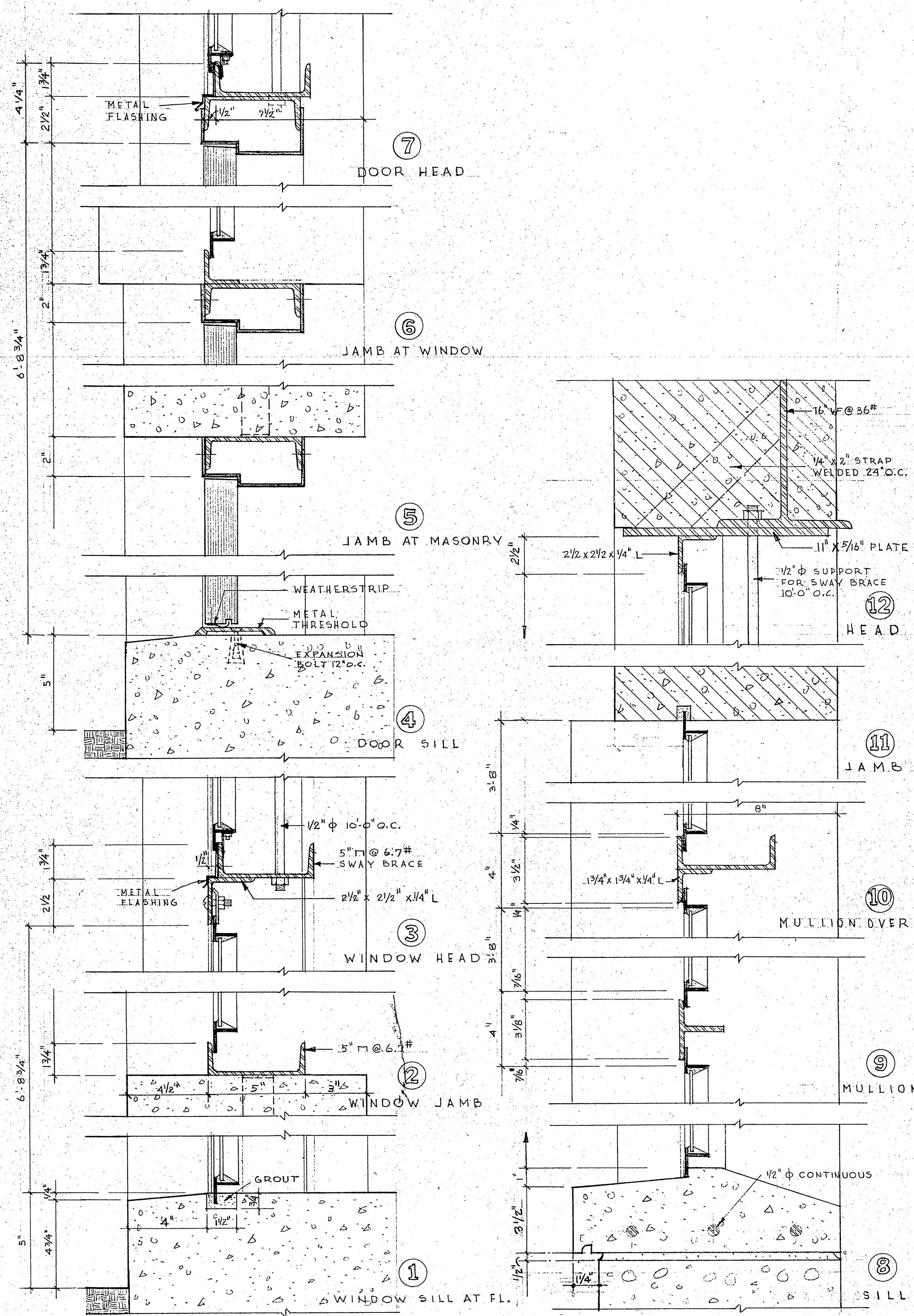
ALL ANTE-ROOMS, CLOSETS, COAT CLOSETS, ETC. ADJACENT TO OR OPENING INTO LARGER ROOMS SHALL BE FINISHED THE SAME AS LARGER ROOMS. THEY OPEN INTO, AND SHALL HAVE THE SAME FLOOR BASE, TRIM, ETC. UNLESS OTHERWISE NOTED. * SEE REMARKS; • SCREEN WINDOW OPENINGS.

DOOR SCHEDULE



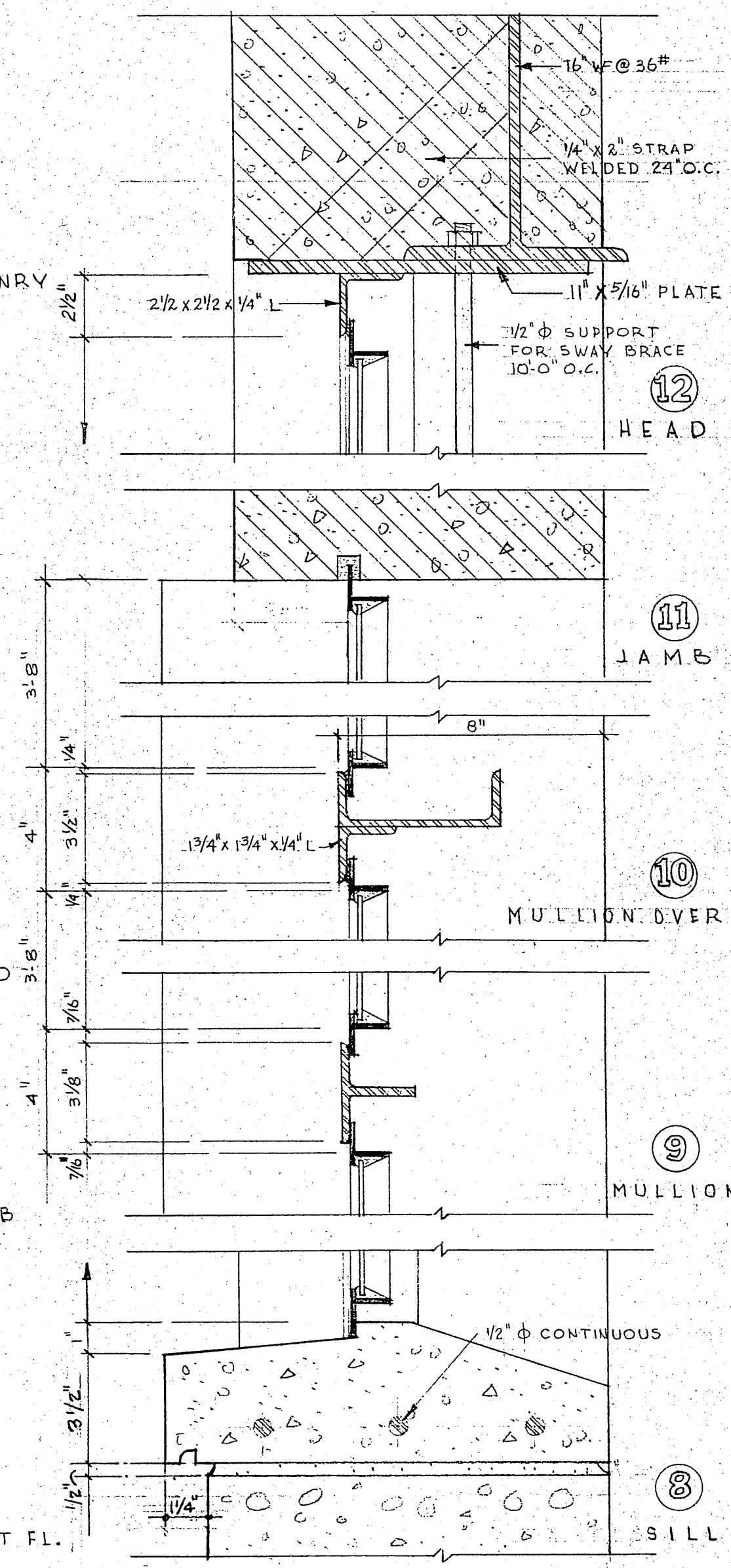
TYPICAL ALUMINUM LETTER DETAIL
SCALE 5/8" = 1'-0"

SERVICE GARAGE CITY OF MADISON 202 N. FIRST STREET, MADISON, WIS.			
DESIGNED BY E. K. J.	ARCHITECTS & ENGINEERS JOHN J. FLAD & ASSOCIATES 608 West Johnson Street Madison Wisconsin	DATE 9-29-53	PROJECT NO. 7
NO.	SUBJECT	BY	DATE
REVISIONS			

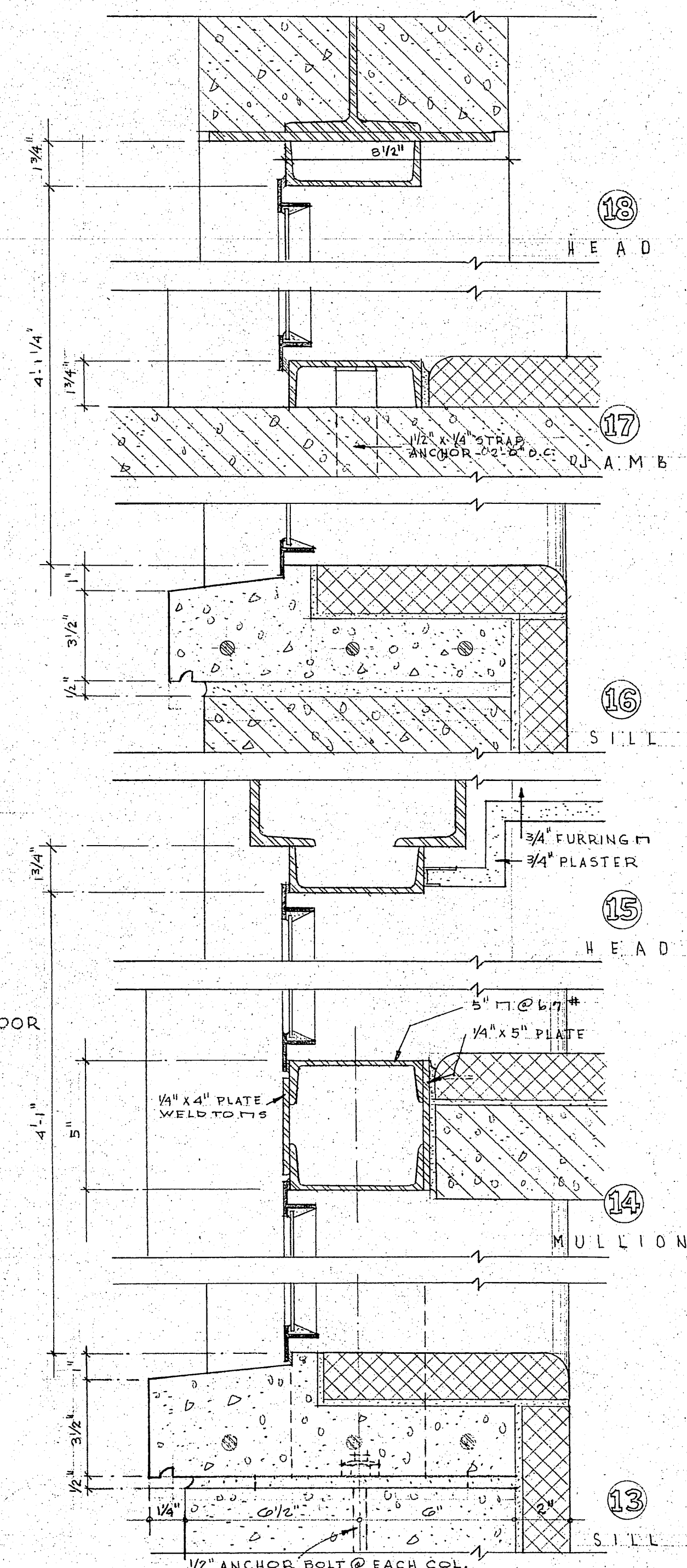


SIDE ENTRANCE DOOR & WINDOW DETAILS

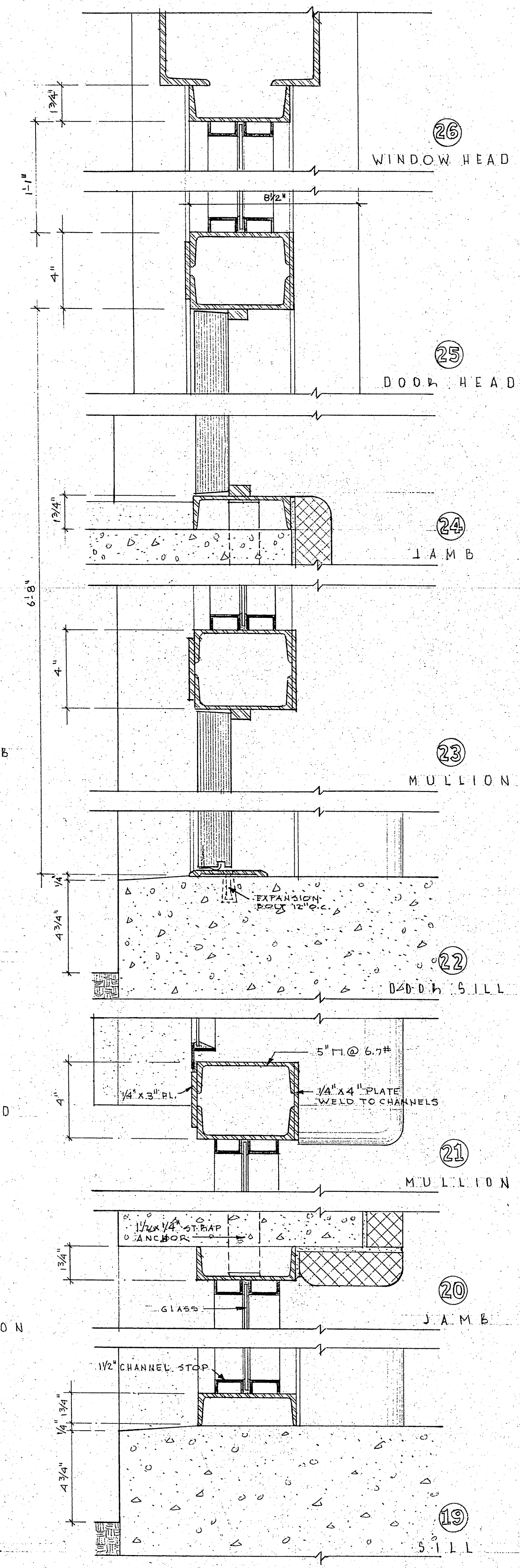
SCALE 3"=1'-0"



SIDE ELEVATION WINDOW DETAILS

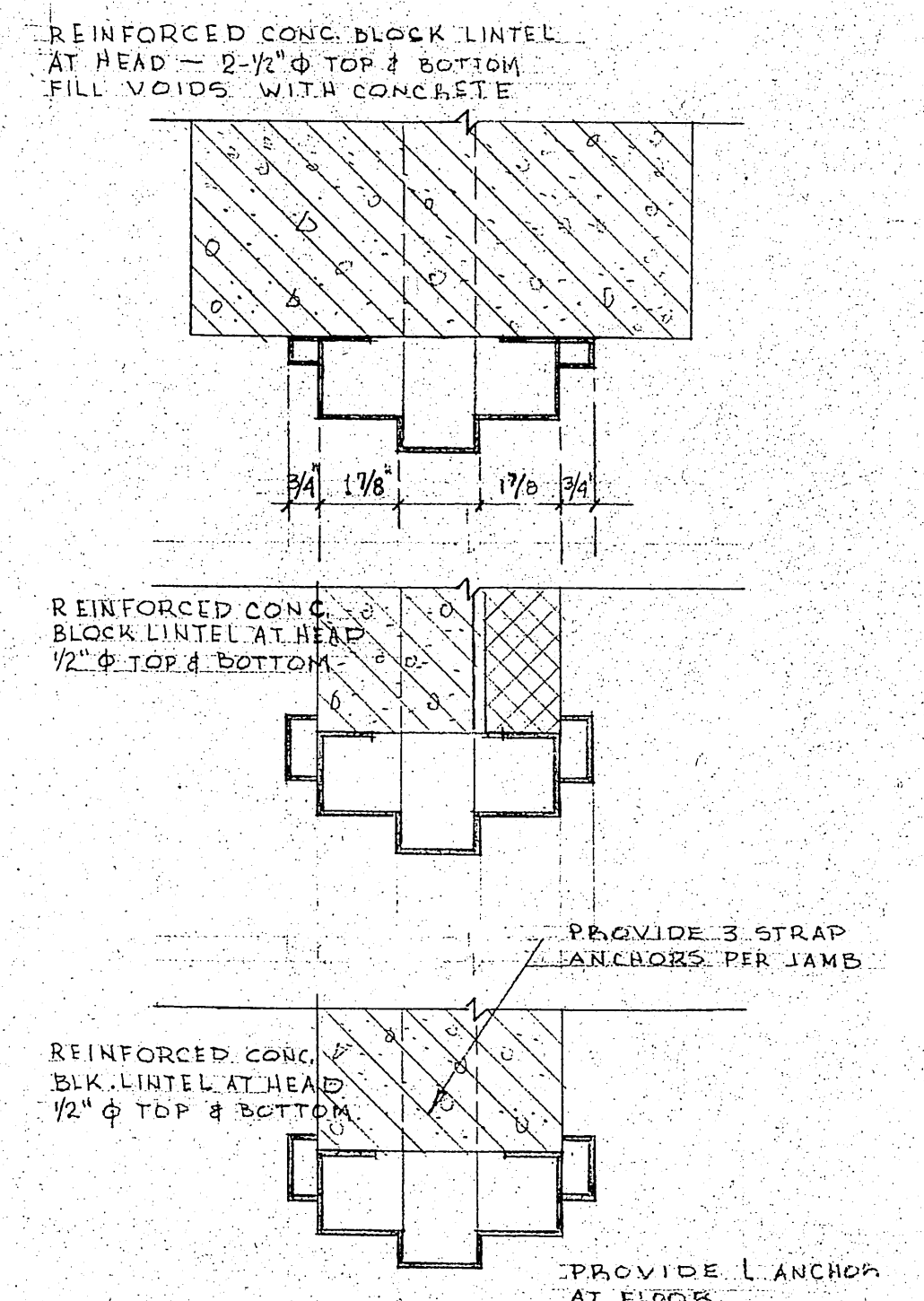


FRONT ELEVATION WINDOW DETAILS



FRONT ELEVATION DOOR AND SIDELIGHT DETAILS

SCALE 3"=1'-0"

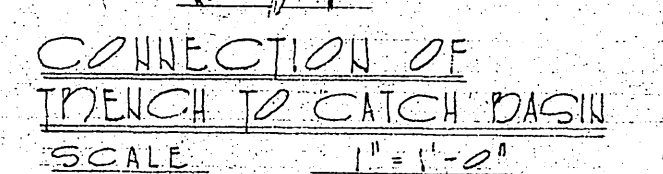
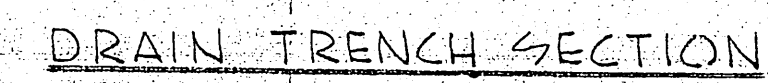
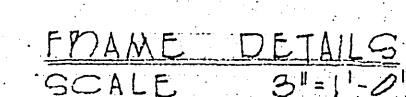
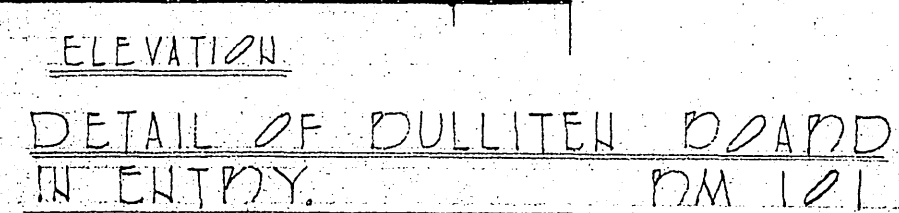
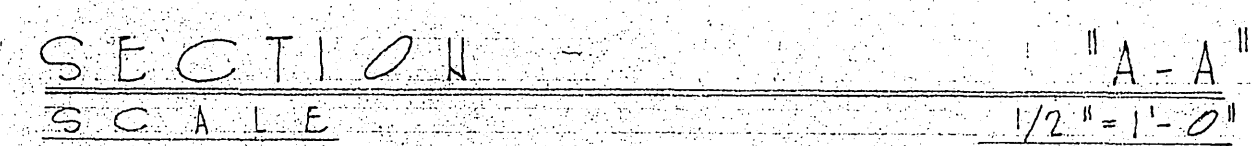
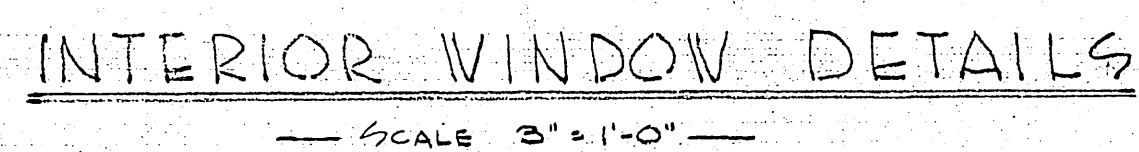
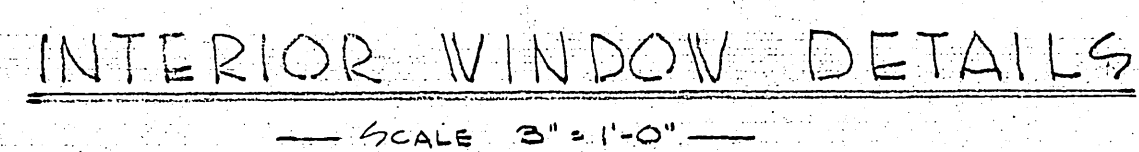
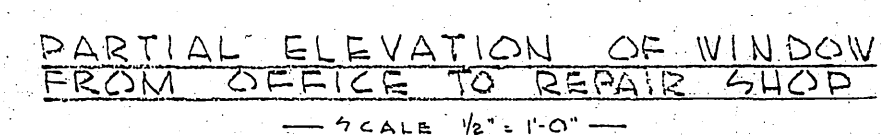


TYPICAL JAMB DETAILS

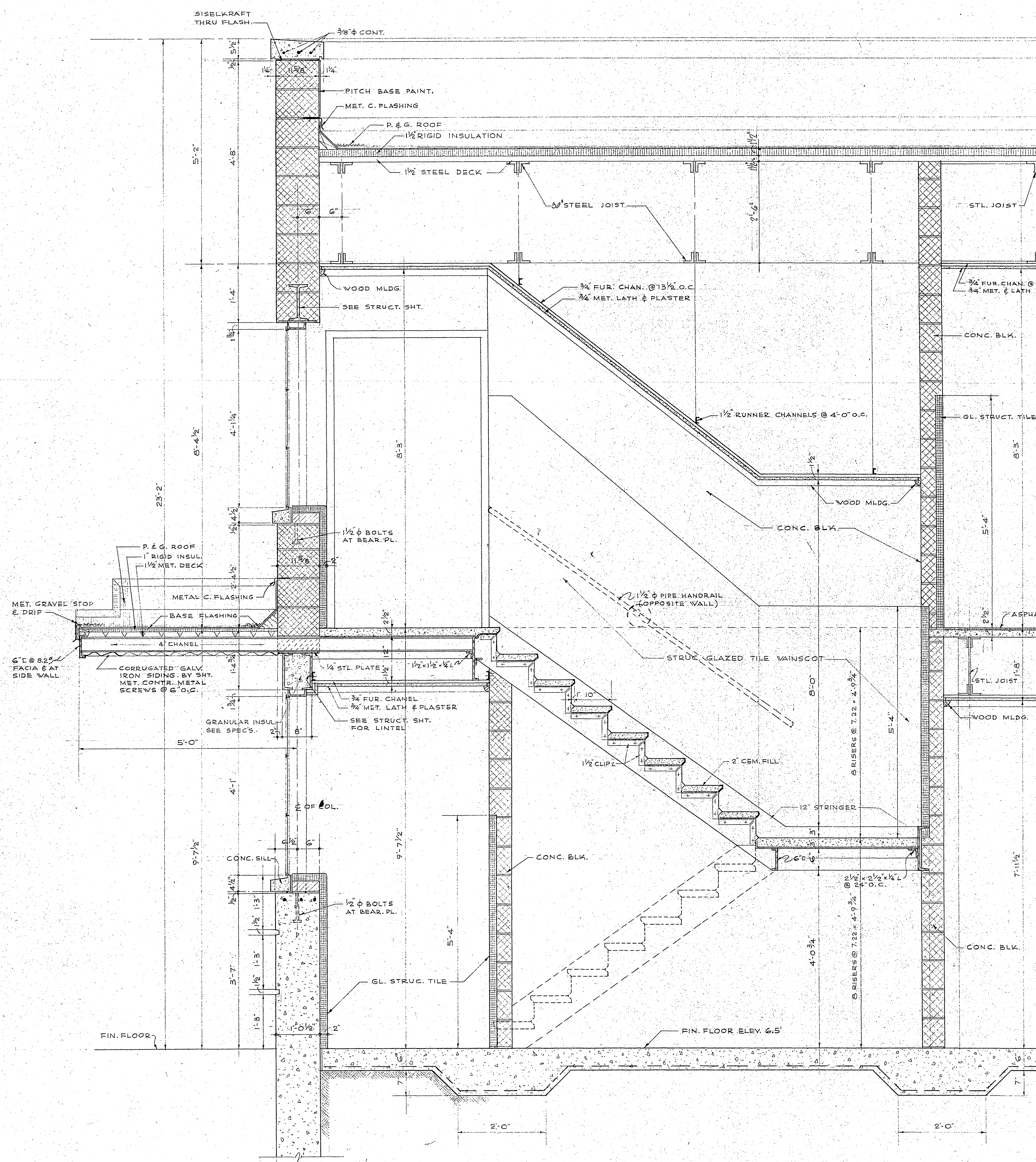
(HEADS SIMILAR)

SCALE 3"=1'-0"

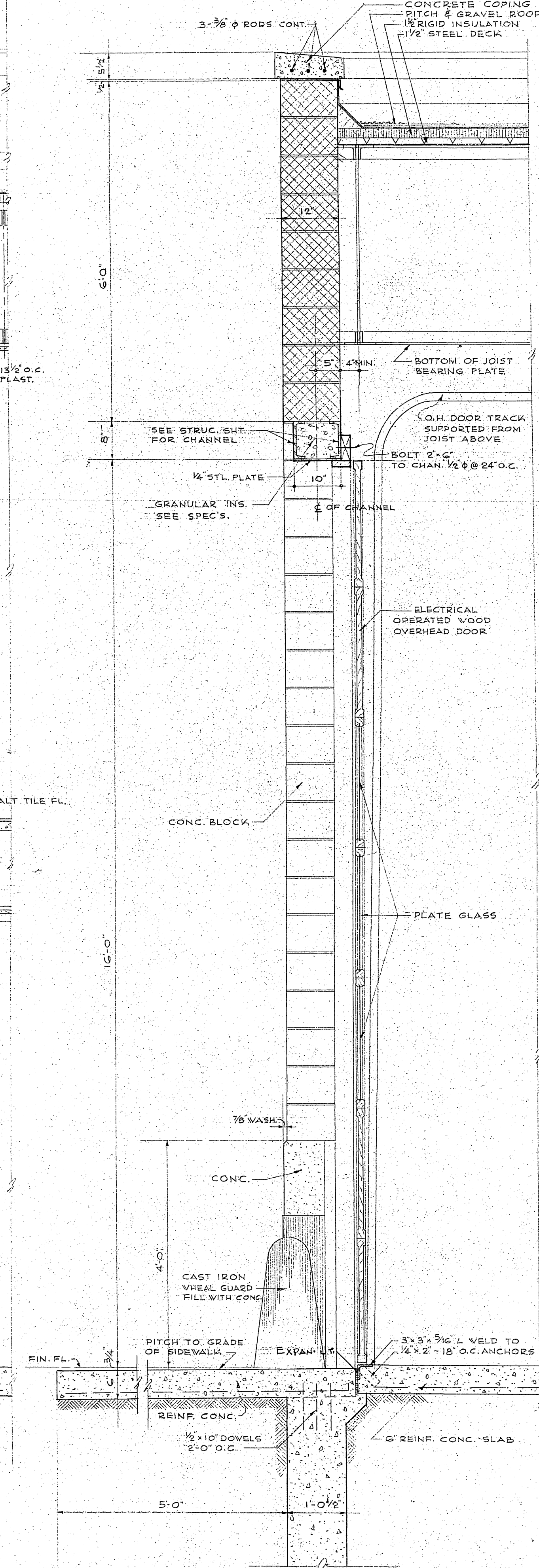
SERVICE GARAGE CITY OF MADISON			
202 NO. 1ST STREET, MADISON, WISCONSIN			
NO.	SUBJECT	BY	DATE
1K	JOHN J. LEAD & ASSOCIATES	5301	
ARCHITECTS & ENGINEERS			
500 West Johnson Street Madison, Wisconsin			
REVISIONS			
2K			8



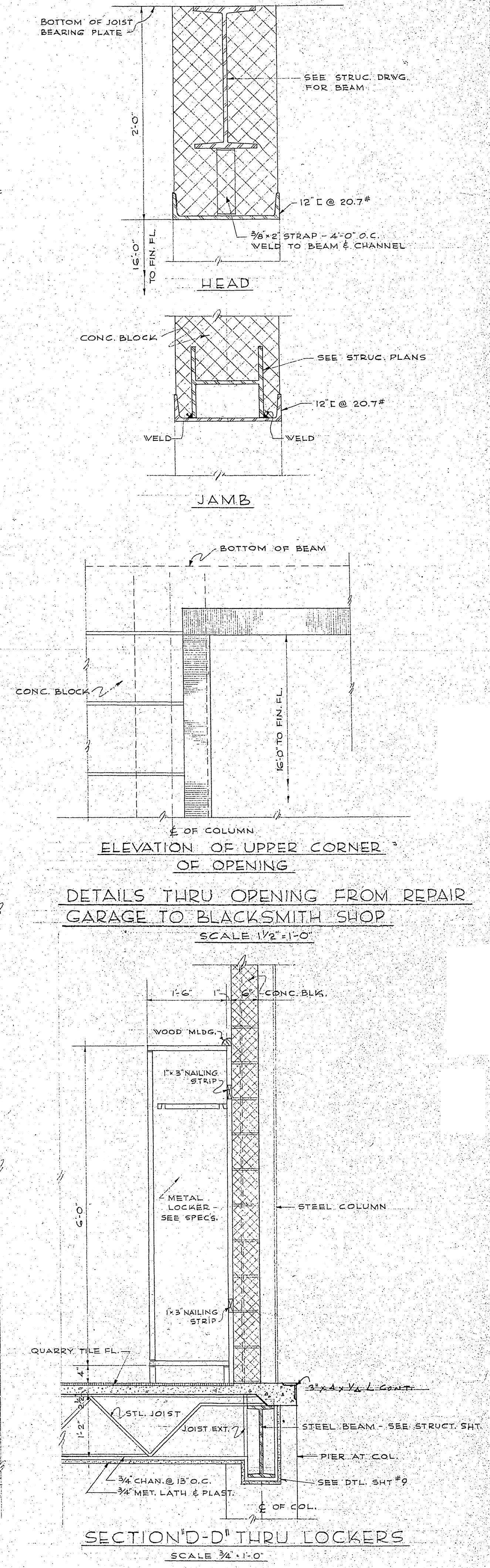
				SERVICE GARAGE CITY OF MADISON 222 N. FIRST STREET, MADISON, WIS.	
				DRAWN BY G.K.	JOHN J. FLAD & ASSOCIATES ARCHITECTS & ENGINEERS 908 West Johnson Street Madison Wisconsin
				TRACED BY G.K.	DATE 5-22-64
NO.	SUBJECT	BY	DATE	CHECKED BY JMF	APPROVED BY 9
REVISIONS					



SECTION B-B THRU FRONT WINDOW AND STAIRWAY SCALE 3/4" = 1'-0"
 NOTE: STAIRWAY "B" OF SIMILAR CONSTRUCTION SEE STRUCT. SHT. FOR STRUCT. MEMBERS

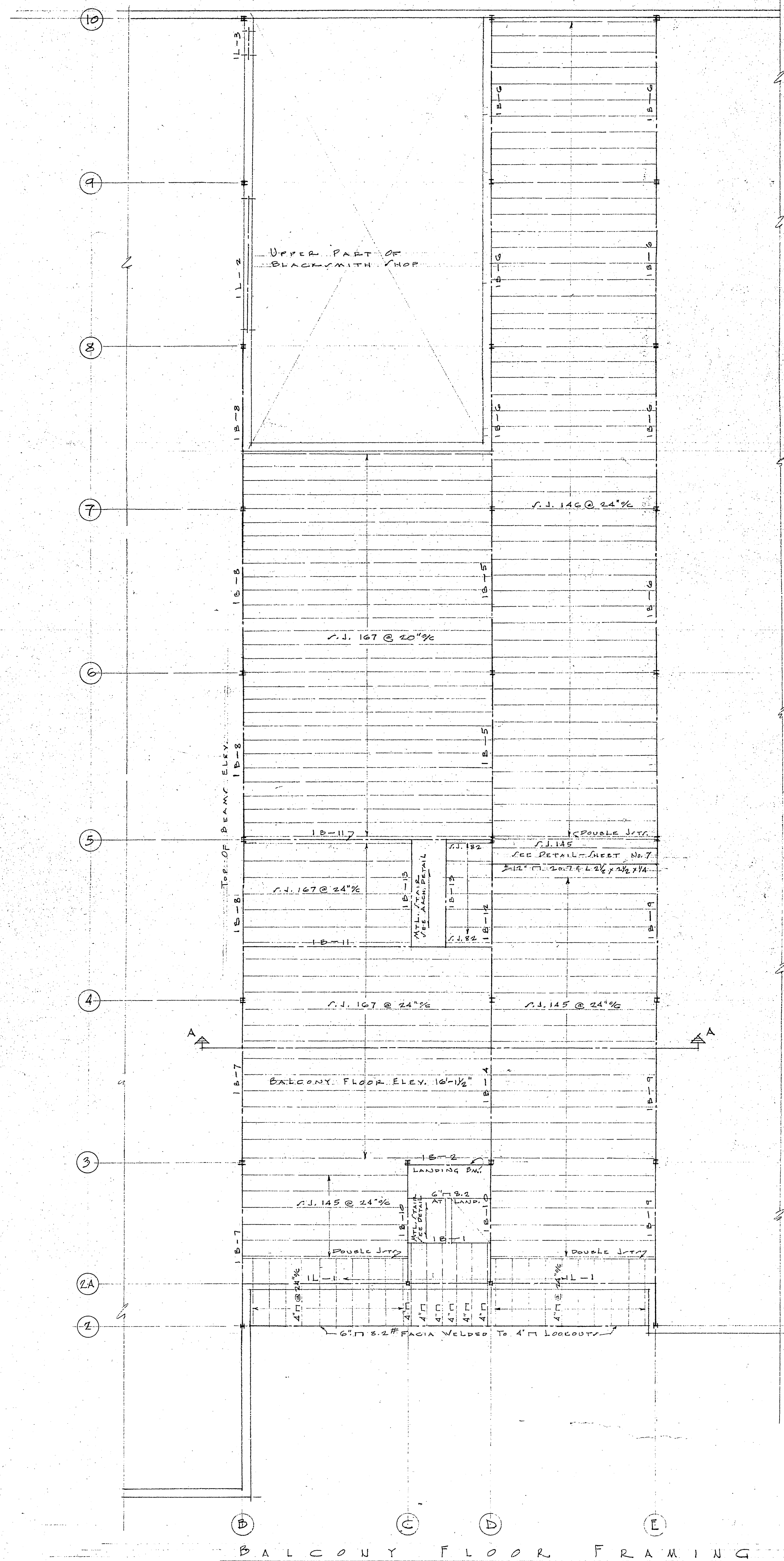


SECTION C-C THRU OVERHEAD DOOR SCALE 3/4" = 1'-0"



SECTION D-D THRU LOCKERS SCALE 3/4" = 1'-0"

SERVICE GARAGE CITY OF MADISON 202 N. FIRST STREET, MADISON, WIS.			
DESIGNED BY	S. F.	JOHN J. FLAD & ASSOCIATES	JOB NO. 5501
DRAWN BY	S. F.	ARCHITECTS & ENGINEERS	DATE 3/25/33
CHECKED BY	JH7	908 West Johnson Street Madison Wisconsin	SHEET NO. 10
REVISIONS			
NO.	SUBJECT	BY	DATE



BALCONY FLOOR FRAMING

BEAMS

10-1	10" W 15.3
10-2	12" W 20.7
10-3	12" W 20.7
10-4	10" W 15.3
10-5	10" W 15.3
10-6	10" W 15.3
10-7	10" W 15.3
10-8	10" W 15.3
10-9	10" W 15.3
10-10	12" W 20.7
10-11	14" W 30
10-12	16" W 36
10-13	8" W 11.5

LINTELS

1L-1	2-10" W 20.7 @ 20' & R-11" x 3/8"
1L-2	12" W 20.7 @ 20' & R-11" x 3/8"

2-10" W 20.7 @ 20' & R-11" x 3/8"
2-10" W 20.7 @ 20' & R-11" x 3/8"
2-10" W 20.7 @ 20' & R-11" x 3/8"

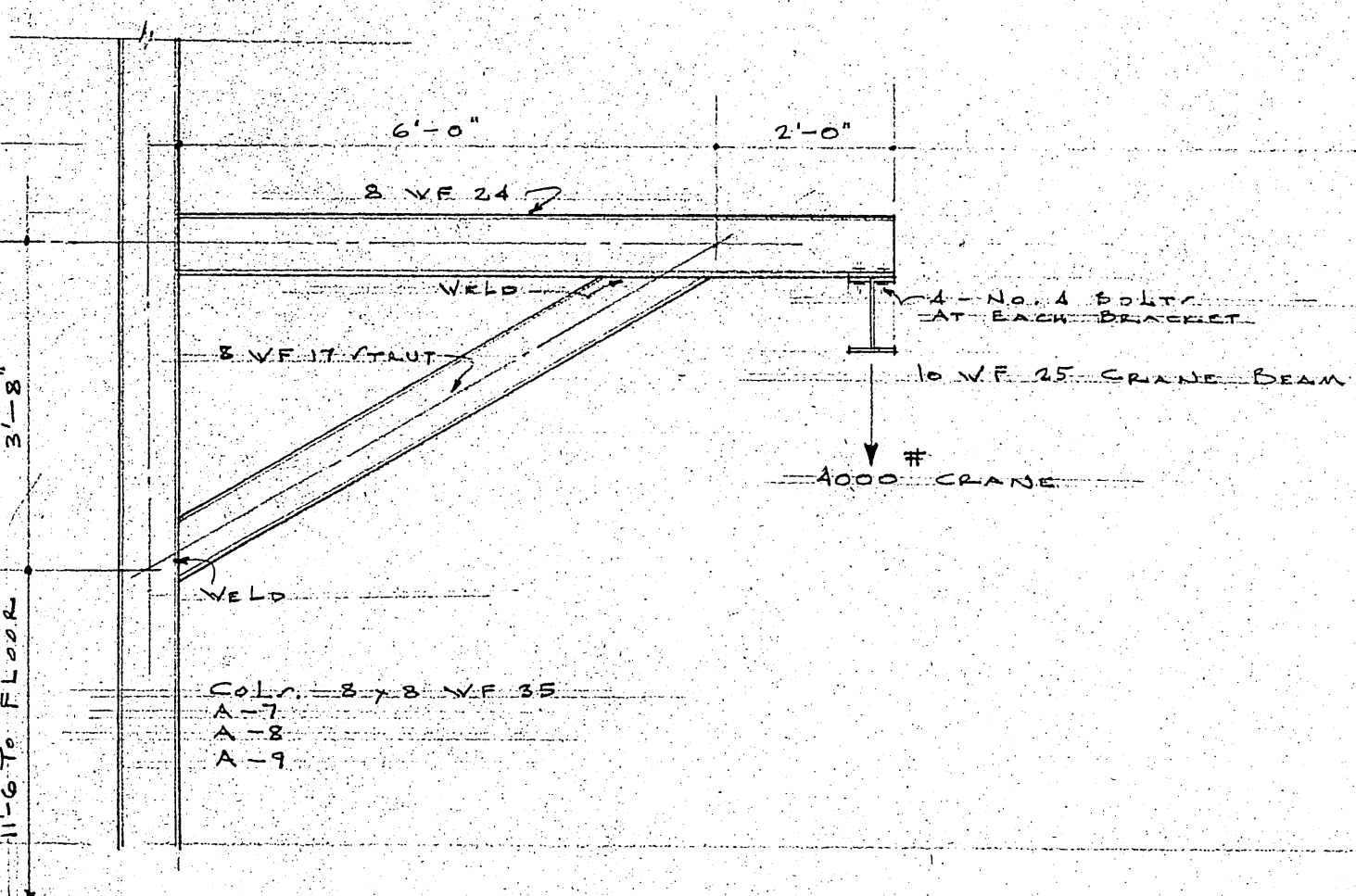
COLUMNS

C-1	6" x 6" W 15.5
C-2	6" x 6" W 15.5
C-3	6" x 6" W 15.5
C-4	6" x 6" W 15.5
C-5	6" x 6" W 15.5
C-6	6" x 6" W 15.5
C-7	6" x 6" W 15.5
C-8	6" x 6" W 15.5
C-9	6" x 6" W 15.5
C-10	6" x 6" W 15.5

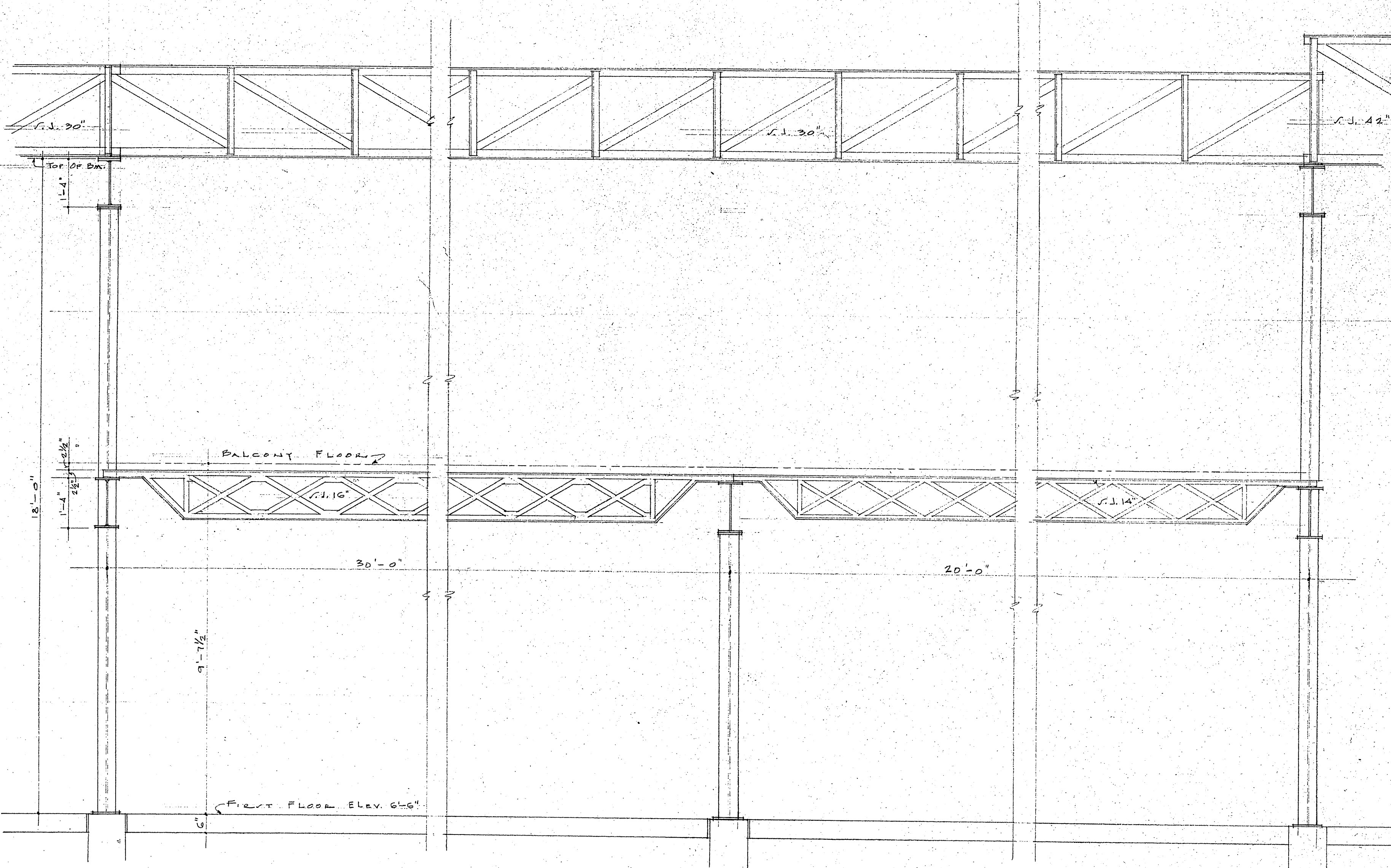
NOTE: FOR ALL COLUMNS NOT LISTED ABOVE, SEE COLUMN SCHEDULE ON SHEET C-1.

GENERAL STRUCTURAL NOTES

- PROVIDE BASE PLATE & ANCHORS FOR ALL STEEL COLUMNS ALSO WHERE NECESSARY PROVIDE TOP PLATE FOR COLUMNS.
- PROVIDE BEARING PLATE & ANCHORS WHERE STEEL BEAMS AND LINTELS REST ON MASONRY OR CONCRETE WALLS.
- ALL STRUCTURAL STEEL SHALL BE FABRICATED & ERECTED ACCORDING TO AISC RECOMMENDATIONS.
- STEEL JOISTS SHALL BE FABRICATED & ERECTED ACCORDING TO STANDARDS OF THE STEEL JOIST INSTITUTE.
- PROVIDE NECESSARY HEADER & LINTEL FOR HEATING & VENTILATION OPENINGS, AND FOR OTHER OPENINGS IN STEEL JOIST CONSTRUCTION.
- LINTELS FOR OPENINGS IN INTERIOR MASONRY WALLS NOT OTHERWISE SHOWN SHALL CONSIST OF 2-1/2" x 4" x 1/4" L FOR EACH 4" OF WALL THICKNESS, FOR SPANS UP TO 6'-0" ONLY.
- SEE HEATING PLANS FOR UNITS SUSPENDED FROM STEEL JOISTS FOR WHICH HANGERS & EXTRA FRAMING SHALL BE PROVIDED.

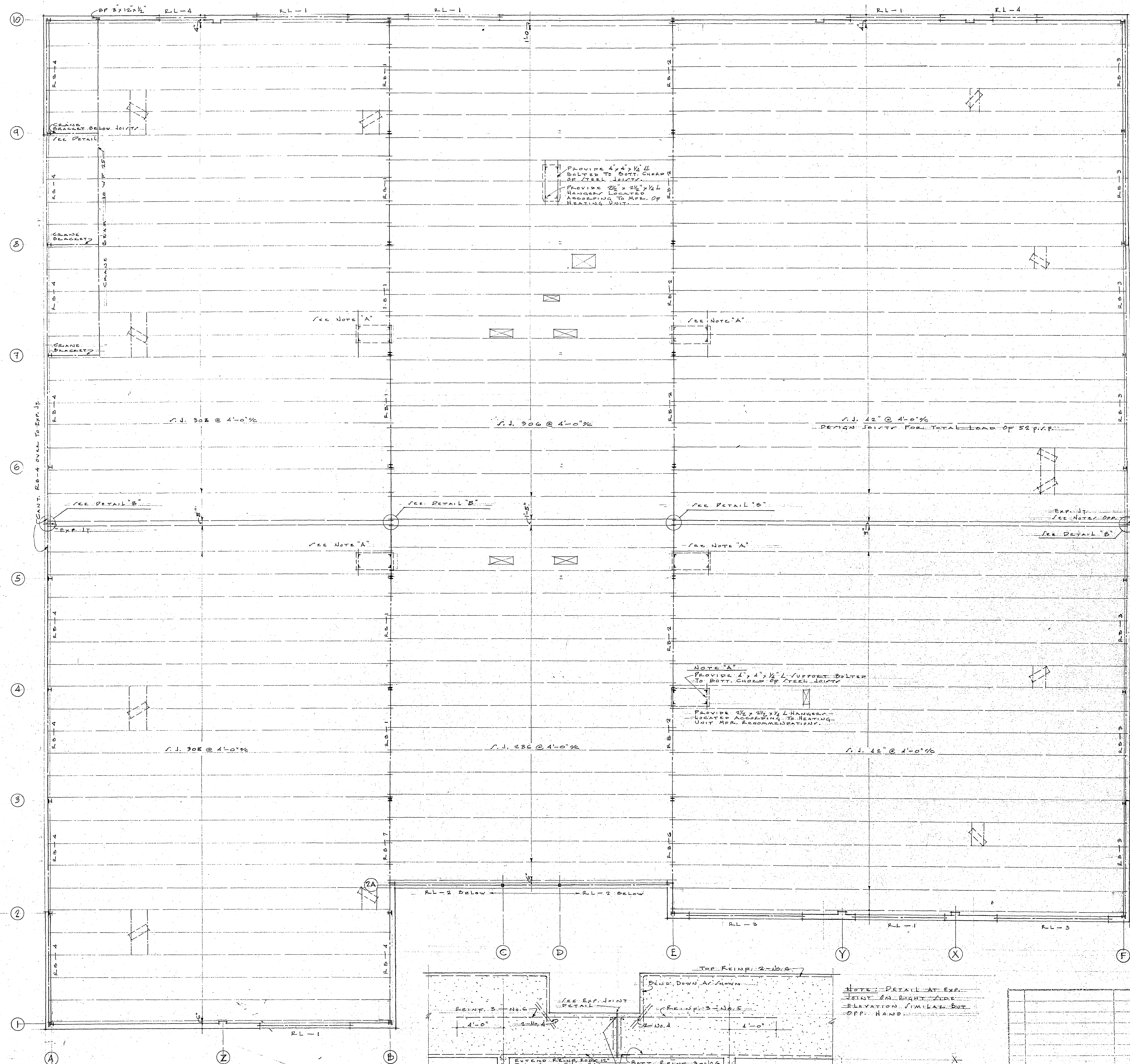


CRANE BRACKET DETAIL



TYPICAL SECTION A-A

SERVICE GARAGE CITY OF MADISON 222 N. FIRST STREET, MADISON WIS	
NO. _____ SUBJECT _____ REVISIONS _____	BY _____ DATE _____ 5-23-71



BEAMS

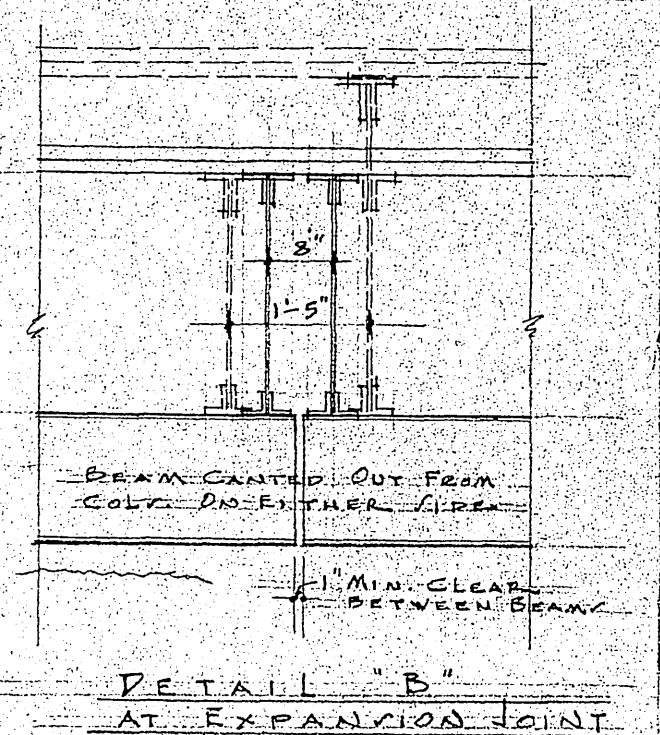
RL-1	16 WF 52
RL-2	16 WF 50 & 11" x 1/2"
RL-3	16 WF 50 & 11" x 1/2"
RL-4	16 WF 36 & 11" x 1/2"

LINTELS

RL-1	2-8" M & 10" x 1/2"
RL-2	12 WF 27 & 10" x 1/2"
RL-3	12 WF 27 & 10" x 1/2"
RL-4	8 WF 24 & 10" x 1/2"

COLUMNS

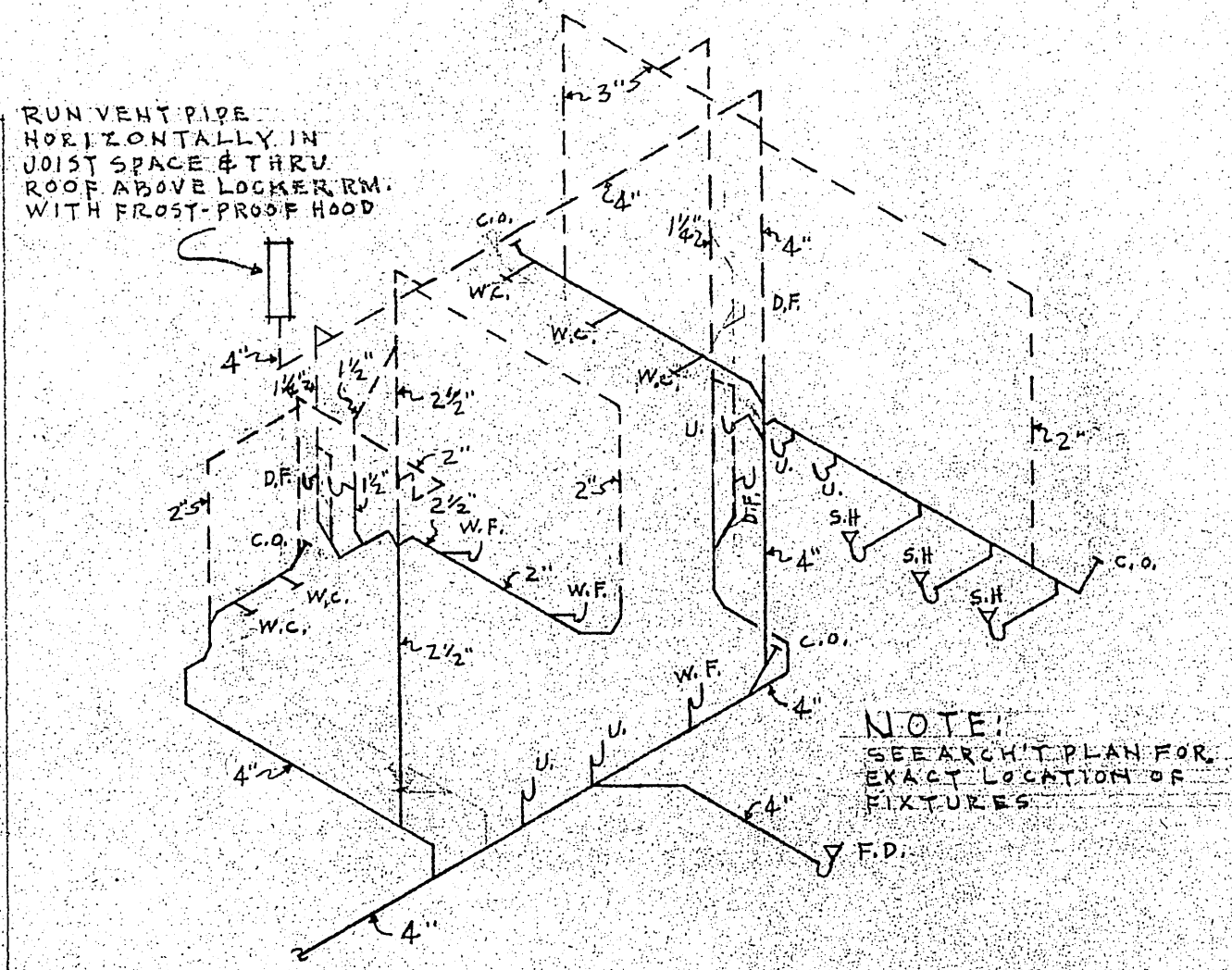
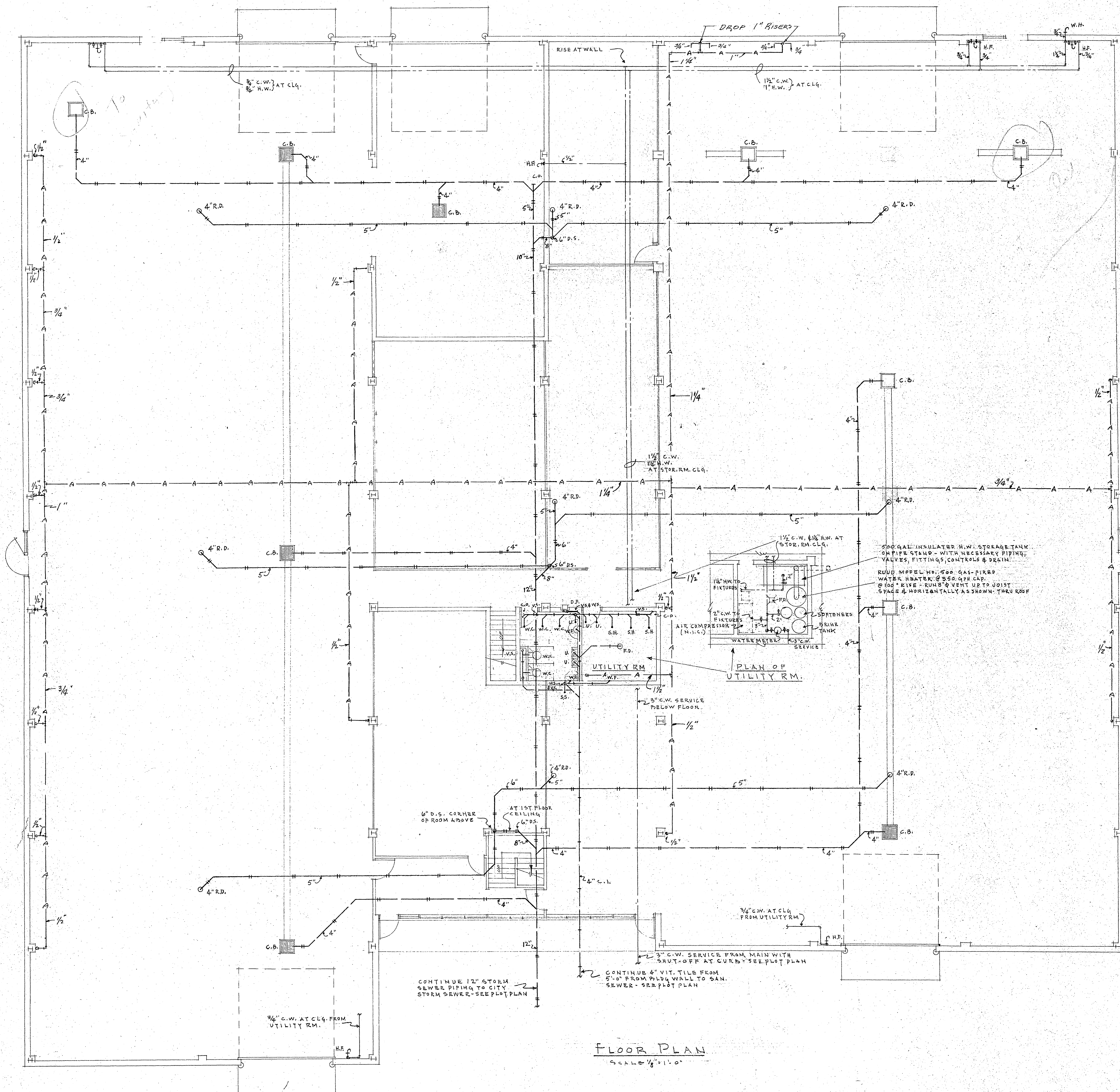
A-1	6" x 6" WF 15.5
A-2	"
A-3	"
A-4	"
A-5	"
A-6	"
A-7	8" x 8" WF 35
A-8	"
A-9	"
A-10	6" x 6" WF 15.5
B-1	"
B-2	6" x 6" WF 20
B-3	8" x 6" WF 24
B-4	"
B-5	"
B-6	"
B-7	"
B-8	"
B-9	"
B-10	6" x 6" WF 15.5
C-2A	2-5" M & 4" x 1/4"
D-2A	4" x 1/4" Veloc. to M
E-2	6" x 6" WF 15.5
E-3	6" x 6" WF 20
E-4	"
E-5	8" x 6" WF 24
E-6	"
E-7	"
E-8	"
E-9	"
E-10	6" x 6" WF 15.5
F-2	"
F-3	"
F-4	"
F-5	"
F-6	"
F-7	"
F-8	"
F-9	"
F-10	"



NOTE: CONDITION SHOWN
DOTTED BETWEEN COL.
B-5 & B-6, AND BETWEEN
E-5 & E-6.

**SERVICE GARAGE
CITY OF MADISON
202 N. FIRST STREET, MADISON, WIS.**

**INDEPENDENT ASSOCIATES
ARCHITECTS & ENGINEERS**
200 West Johnson Street
Madison, Wisconsin
53701
DATE: 3-25-59
SHEET: 5-2



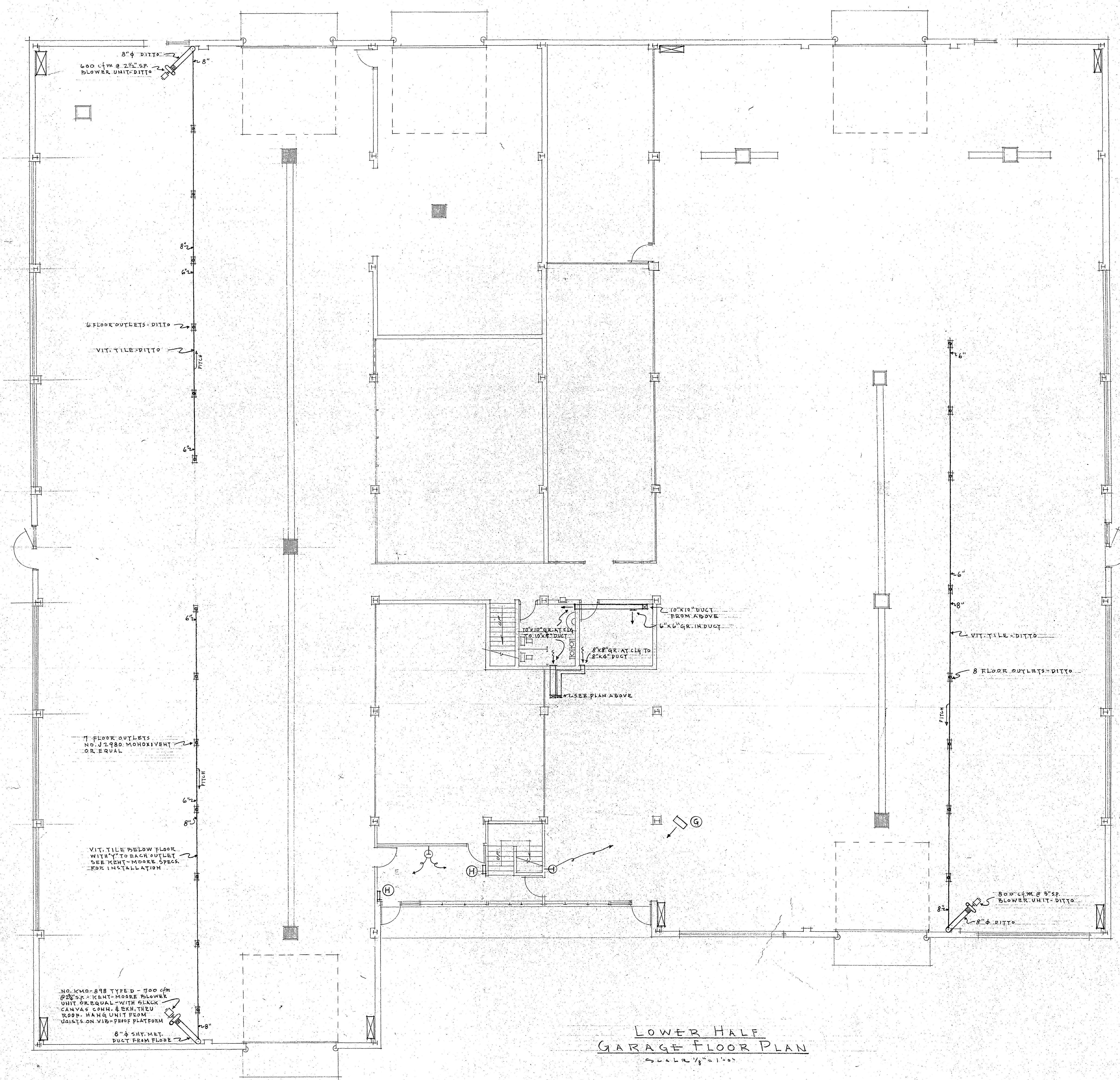
**SANITARY SEWER
PIPING DIAGRAM**
NO SCALE

PLUMBING SYMBOL SCHEDULE	
	SAN. SEWER PIPING BELOW FLOOR
	SAN. SEWER PIPING ABOVE FLOOR
	STORM SEWER PIPING BELOW FLOOR
	STORM SEWER PIPING ABOVE FLOOR
	GAS PIPING
	C.W. COLD WATER
	H.W. HOT WATER
	CHW CIRC. HOT WATER
	L. LAVATORY
	W.C. WATER CLOSET
	U. URINAL
	S.S. SERVICE SINK
	W.F. WASH FOUNTAIN
	D.F. DRINKING FOUNTAIN
	F.D. FLOOR DRAIN
	S.H. SHOWER
	H.F. HOSE FUGGET
	W.H. WALL HYDRANT
	W.S. WASTE STACK
	V.S. VENT STACK
	C.O. CLEAN-OUT
	R.D. ROOF DRAIN
	D.S. DRAIN STACK (ROOF)
	C.B. CATCH BASIN
	COMPRESSED AIR PIPING

NOTE:
PROVIDE SUFFICIENT NUMBER OF SHOCK ARRESTORS IN WATER LINES TO PROMOTE QUIET OPERATION OF FIXTURES.
INSTALL COMPRESSED AIR PIPING FROM UTILITY RM. TO (INCLUDING) OUTLETS WHERE SHOWN ON ARCHT. PLANS - SEE SPECS.
SEE ARCHT. PLANS FOR DETAIL OF CATCH BASIN.
RUN ALL PIPING CONCEALED IN TOILET & LOCKER ROOMS.

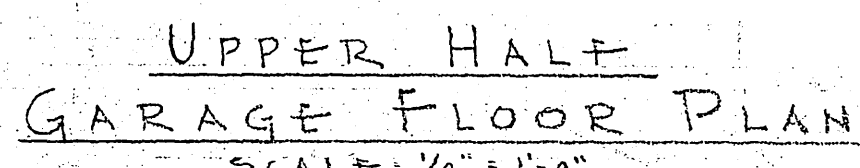
FLOOR PLAN
SCALE 1/8" = 1'-0"

PLUMBING		SERVICE GARAGE CITY OF MADISON 202 N. FIRST STREET, MADISON, WIS.	
NO.	SUBJECT	BY	DATE
REVISIONS			
DESIGNED BY CHECKED BY APPROVED BY		JOHN J. FLAD & ASSOCIATES ARCHITECTS & ENGINEERS 908 West Johnson Street Madison Wisconsin	
DRAWN BY SCALE		SHEET NO. P. 1	



LOWER HALF
GARAGE FLOOR PLAN
SCALE 1/8" = 1'-0"

HEATING & VENTILATING			
SERVICE GARAGE CITY OF MADISON 202 N. FIRST STREET, MADISON, WIS.			
JOHN J. FLAD & ASSOCIATES ARCHITECTS & ENGINEERS 908 West Johnson Street Madison Wisconsin			
NO.	SUBJECT	BY	DATE
REVISIONS			



HEATING & VENTILATING

SERV
 CITY
 AL F12
 JOHN
 NO. SUBJECT
 RECORDS

- # HEATE SCHEDULE
- (A) GAS-FIRED UNIT HEATER @ 144,000 BTU OUTPUT @ 2700 °F. W/ 1/2" H.P. MOTOR & 114" FAN SPEED. TIE-IN TO MAIN WITH ANTI-VIB SUSPENSION LUGGER FIN DIFFUSERS
- (B) GAS-FIRED FORCED AIR SUSPENDED FURNACE @ 382,000 BTU OUTPUT @ 460 °C FPM FOR 1000 °C @ 866° F. FT. UNIT SHALL BE JACKSON & CHURCH NO. GA-550-538 OR ANY OTHER OF EQUAL SIZE, SHAPE & WEIGHT. SEE STRUCT. DRWG FOR SUSPENSION. PROVIDE ANTI-VIB. BASE & MOTOR OPERATED DAMPER. FOR DIRECTIONAL OUTLET GRILLE
- (C) GAS-FIRED FORCED AIR SUSPENDED FURNACE @ 274,000 BTU OUTPUT @ 282 °C FPM FOR 4070 °F. UNIT SHALL BE JACKSON & CHURCH NO. GA-350-5 OR ANY OTHER OF EQUAL SIZE & WEIGHT. SEE STRUCT. DRWG FOR SUSPENSION. PROVIDE ANTI-VIB. BASE & MOTOR OPERATED DAMPER. FOR DIRECTIONAL OUTLET GRILLE
- (D) GAS-FIRED FORCED AIR SUSPENDED FURNACE SAME AS ABOVE EXCEPT UNIT SHALL BE 1000 °C @ 1730 °C FPM @ 10070 °F. O.M.T.
- (E) GAS-FIRED CIRCULATOR @ 442,000 BTU OUTPUT. BRYANT NO. 36-VC-420 OR EQUAL
- (F) GAS-FIRED CIRCULATOR @ 24,500 BTU OUTPUT. BRYANT NO. 36-VC-420 OR EQUAL
- (G) GAS-FIRED UNIT HEATER @ 40,000 BTU OUTPUT @ 700 °C FPM WITH 1/2" H.P. MOTOR. TIE-IN TO MAIN WITH ANTI-VIB SUSPENSION LUGGER FIN DIFFUSERS
- (H) GAS-FIRED RADIANT PANEL CIRCULATOR @ 17,500 BTU OUTPUT. BRYANT NO. 36-VC-420 OR EQUAL

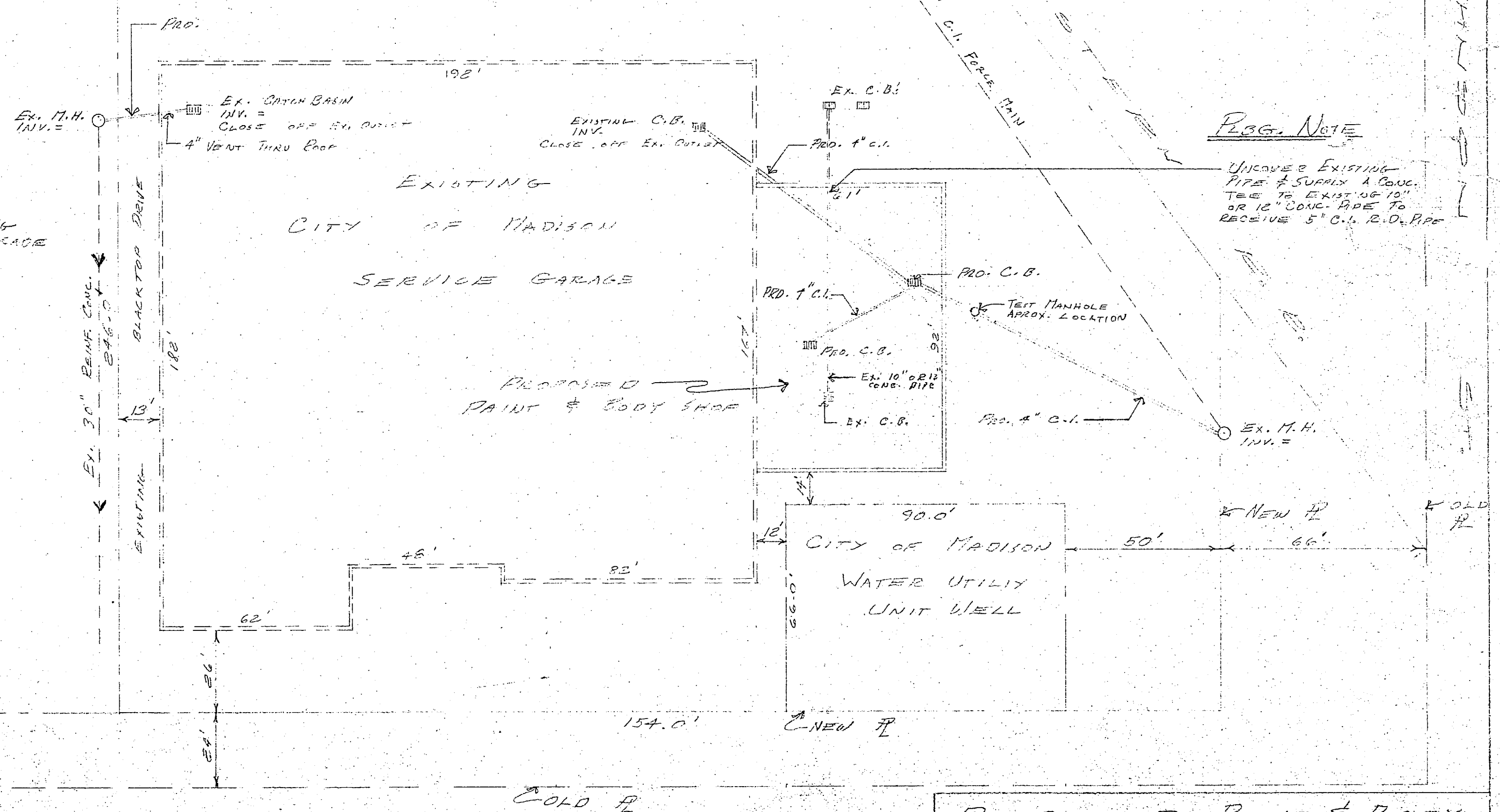
1967 - Paint and Body Shop Addition

CHICAGO
STORAGE
YARD

ALL CONTRACTORS SHALL MEET
ALL RULES & REQUIREMENTS OF
STATE & CITY CODES.

NOTE
GENERAL CONTRACTOR SHALL
GRADE AWAY FROM BUILDING
FOR DRAINAGE TO MEET GRADE
IN ADJACENT AREA.

PLG. NOTE
UNCOVER & EXISTING
PIPE & SURFACE A CONC.
TEE TO EXISTING 12"
OR 18" CONC. PIPE TO
RECEIVE 5" C.I. R.O. PIPE

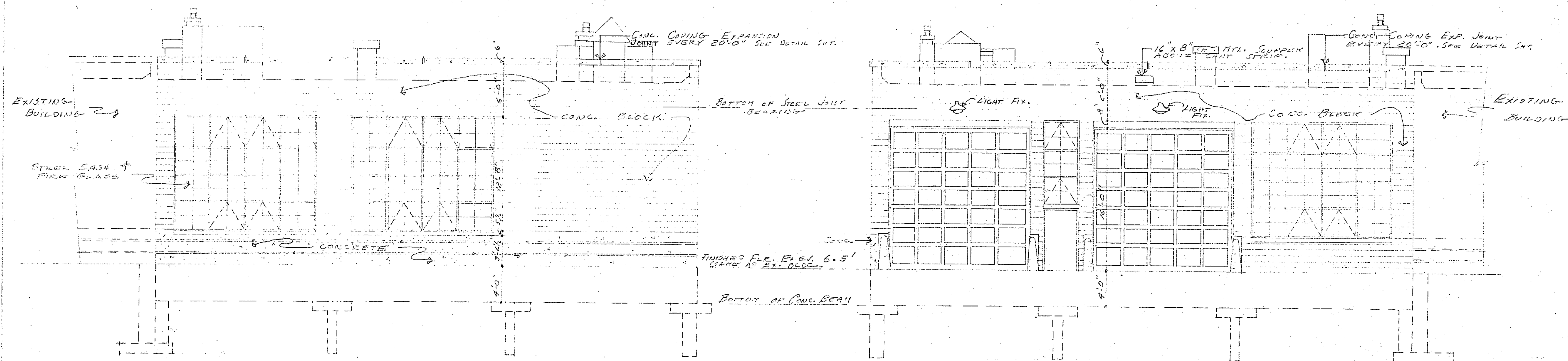


N. FIRST ST.

PLAT PLAN & SEWER PLAN

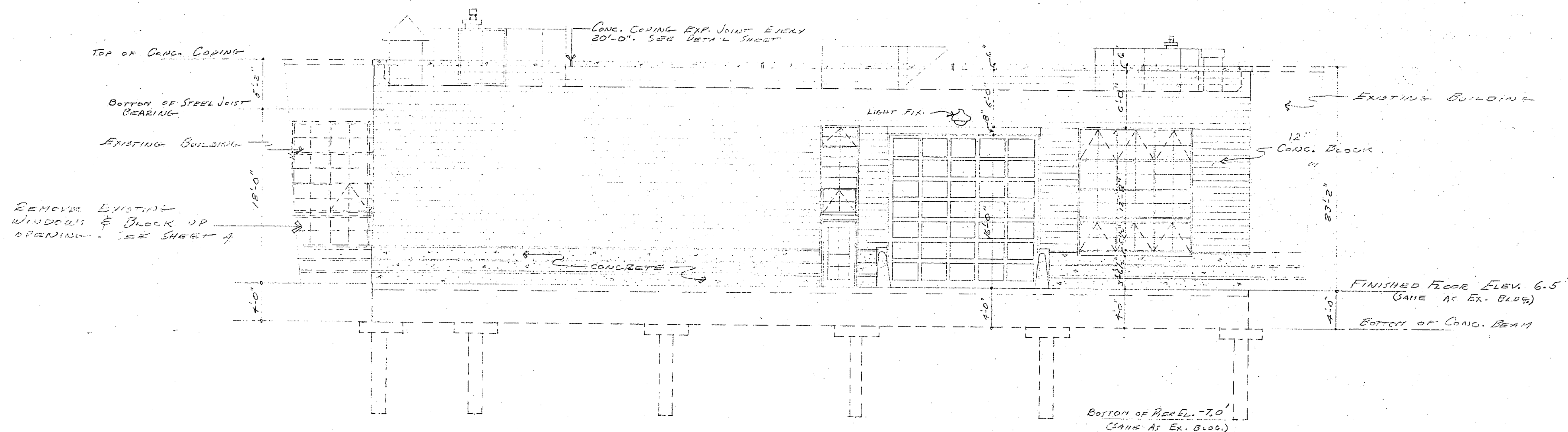
SCALE 1" = 30.0'

PROPOSED PAINT & BODY
SHOP ADDITION TO THE
SERVICE GARAGE
CITY OF MADISON - BLDG. INSP. DEPT.
DRAWN 10/17/67
APPROVED 11/1/67 SHEET 1 OF 1



NORTH ELEVATION

SOUTH ELEVATION



EAST ELEVATION

SCALE $\frac{1}{8}" = 1'-0"$

PROPOSED PAINT & BODY SHOP ADDITION TO THE SERVICE GARAGE	
CITY OF MADISON - BLDG. INSP. DEPT.	
DRAWN 5/1/67 <i>W. H. H.</i>	SHEET 2 of 8
APPROVED <i>[Signature]</i> DATE 8-1-67	

EXISTING SERVICE GARAGE

CONCRETE FLOOR NOTES

1. EXCAVATE EXISTING GROUND & BACKFILL WITH 12" OF SAND.
2. PLACE 12"x12"x8" FOOTINGS FOR TIE DOWN RINGS AS SHOWN ON SHEET. BELOW CONC. FLOOR.
3. REINFORCE ENTIRE CONCRETE FLOOR ON GROUND WITH 6x6 No. 6 GA. WIRE MESH.
4. PLACE ALL JOINT FORMS AS SHOWN.
5. PROVIDE 3/4" BIT. FIBER EXPANSION JOINTS AROUND ENTIRE PERIMETER OF BUILDING.
6. PLACE 6" POURED CONC. FLOOR OVER ENTIRE AREA.

SPREAD FOOTINGS

B-1	4'-6" x 4'-6" x 1'-0"
B-6	4'-6" x 4'-6" x 1'-0"
C-1	4'-6" x 4'-6" x 1'-0"
C-6	4'-6" x 4'-6" x 1'-0"
D-1	4'-6" x 4'-6" x 1'-0"
D-2	4'-6" x 4'-6" x 1'-0"
D-3	4'-6" x 4'-6" x 1'-0"
D-4	4'-6" x 4'-6" x 1'-0"
D-5	4'-6" x 4'-6" x 1'-0"
D-6	4'-6" x 4'-6" x 1'-0"
A-1	4'-6" x 3'-0" x 1'-0"
A-6	4'-6" x 3'-0" x 1'-0"

THESE PIERS SHALL BE
POURED & ABOVE GRADE TO
TOP OF EXISTING POURED WALL
TO RELIEVE STEEL COLUMNS

2' x 2' CATCH BASIN - NO TRAP
SEE DETAIL SHG.

PROVIDE 1-1/8" SEALTIGHT SHOULDERED
TONGUE & GROOVE CONC. JOINT @ THIS
LOCATION ONLY, OR EQUAL

AT ALL GRID LOCATIONS PROVIDE A BURKE KEYED
KOLD JOINT FORM OR EQUAL. JOINT SIZE
SHALL BE 5 1/2". USE 18" STAKES 24" O.C. &
24" LONG HORIZONTAL DOWELS 30" O.C.

4' x 4' CATCH BASIN
SEE DETAIL SHG.

4" VENT THRU ROOF

PLACE ALL SEW. PIPE UNDER
GRADE BEAM WALL. SEE PLOG.
SPCS.

PROVIDE A 4" VENT
OUT THRU WALL

FTG. WALL TO BE
PLACED ON TOP

SPREAD FTG.
SEE SCHEDULE

12" DIA. PIER
4-NO. 8 VERT.
2-NO. 3 TIES

TYPICAL PIER & FOOTING
EXTERIOR COLUMNS
C-1, C-6, B-1, & B-6

SPREAD FTG.
SEE SCHED.

15" DIA. PIER
4-NO. 8 VERT.
2-NO. 3 TIES

TYPICAL PIER & FOOTING
EXTERIOR COLUMNS
D-2, D-3, D-4, & D-5

SPREAD FTG.
SEE SCHED.

18" DIA. PIER
4-NO. 8 VERT.
2-NO. 3 TIES

TYPICAL EXTERIOR CORNER
PIER & FOOTING
D-1 & D-6

GENERAL CONCRETE NOTES

1. ALL REINFORCED CONCRETE SHALL HAVE 28 DAY COMP. STRENGTH OF 3000 P.S.I.
2. REINFORCING RODS SHALL HAVE TENSILE STRENGTH OF 20,000 P.S.I., & SHALL MEET ALL REQUIREMENTS FOR A.S.T.M. DESIGNATION A-305.
3. ALL EXTERIOR CONCRETE WALLS ABOVE GRADE SHALL BE REINFORCED ON OUTSIDE FACE WITH NO. 3 RODS @ 12" O.C. BOTH WAYS.
4. ALL CONCRETE REINFORCING SHALL BE DETAIL, FABRICATED, & PLACED IN ACCORDANCE WITH A.C.I. STANDARD PRACTICE.
5. AT OPENINGS IN CONC. WALLS, REINFORCE @ CORNERS WITH 2-NO. 4 x 3'-0" LONG.

FOUNDATION PLAN

SCALE 1/8"=1'-0"

BLDG. "A"

PROPOSED PAINT & BODY
SHOP ADDITION TO THE
SERVICE GARAGE

CITY OF MADISON - BLDG. INSP. DEPT.

DRAWN 4/25/67
APPROVED 5/1/67

SHEET 3 OF 8

8-1-67

REMOVE 3 BAYS OF EXISTING WINDOW
+ PLACE BACK TO FACTORY, EXISTING
LATCHES TO REMAIN. SEE PLAN.



2.5
2.75

Q-1-67

A) MAMMOTH NU-AIR T-21 OR EQUAL W/FRESH AIR HOOD, DAMPER SECTION W/BOTTOM DISCHARGE. A FIELD ASSEMBLED 2X12 WOOD JOIST CURB SHALL BE PLACED ON TOP OF THE STEEL JOISTS.

B) MAMMOTH ADAPT-AIR H2 OR EQUAL W/DISCHARGE COMPARTMENT, FRESH AIR & RETURN AIR COMPARTMENTS W/DAMPERS & FILTER SECTION. PROVIDE BOTTOM DISCHARGE & BOTTOM INLET IN COMPARTMENTS. A PREFABRICATED FIELD ASSEMBLED MANUFACTURED CURB SHALL BE PLACED ON TOP OF THE STEEL JOISTS.

C) MAMMOTH ADAPT-AIR E21 OR EQUAL W/DISCHARGE COMPARTMENT, FRESH AIR & RETURN AIR COMPARTMENTS W/DAMPERS & FILTER SECTION. PROVIDE BOTTOM DISCHARGE & BOTTOM INLET IN COMPARTMENTS. A PREFABRICATED FIELD ASSEMBLED MANUFACTURED CURB SHALL BE PLACED ON TOP OF THE STEEL JOISTS.

NOTE: ALL ELECTRICAL CONNECTIONS TO BE BID BY ELECTRICAL CONTRACTOR.

BEAMS

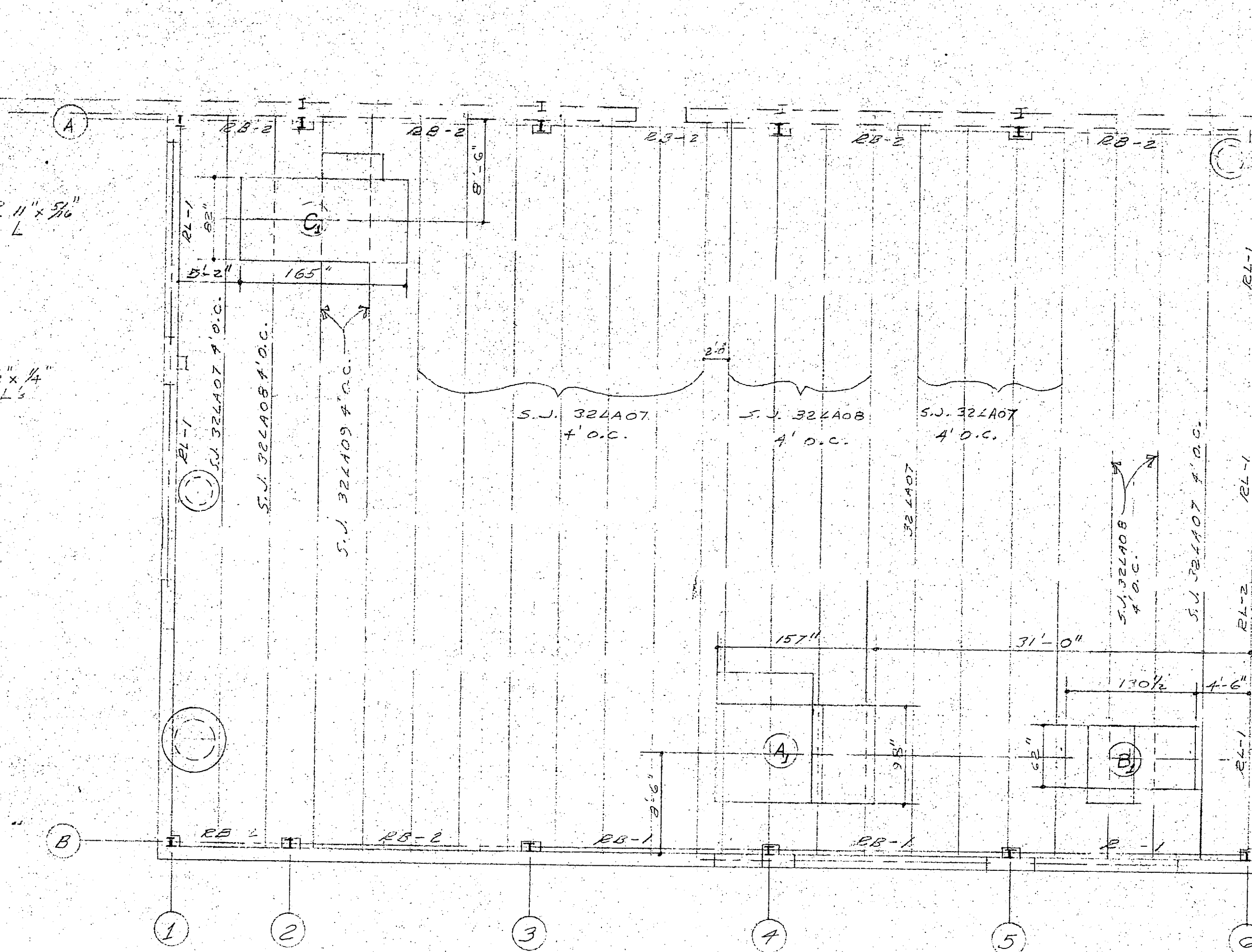
RB-1 16 B 31 # 11" x 3/4"
2 1/2" x 2 1/4" x 3/4" CLIP L
RB-2 16 B 31

LINTELS

RL-1 12 B 16.5 # 1 1/2" x 4"
RL-2 3-3 1/2" x 3 1/2" x 1/4" L's

COLUMNS

A-1 6" x 6" WF 15.5
A-2 " " " "
A-3 " " " "
A-4 " " " "
A-5 " " " "
A-6 " " " "
B-1 6" x 6" WF 15.5
B-2 " " " "
B-3 " " " "
B-4 " " " "
B-5 " " " "
B-6 " " " "



STRUCTURAL & HEATING UNIT LAYOUTS

SCALE 1/8" = 1'-0"

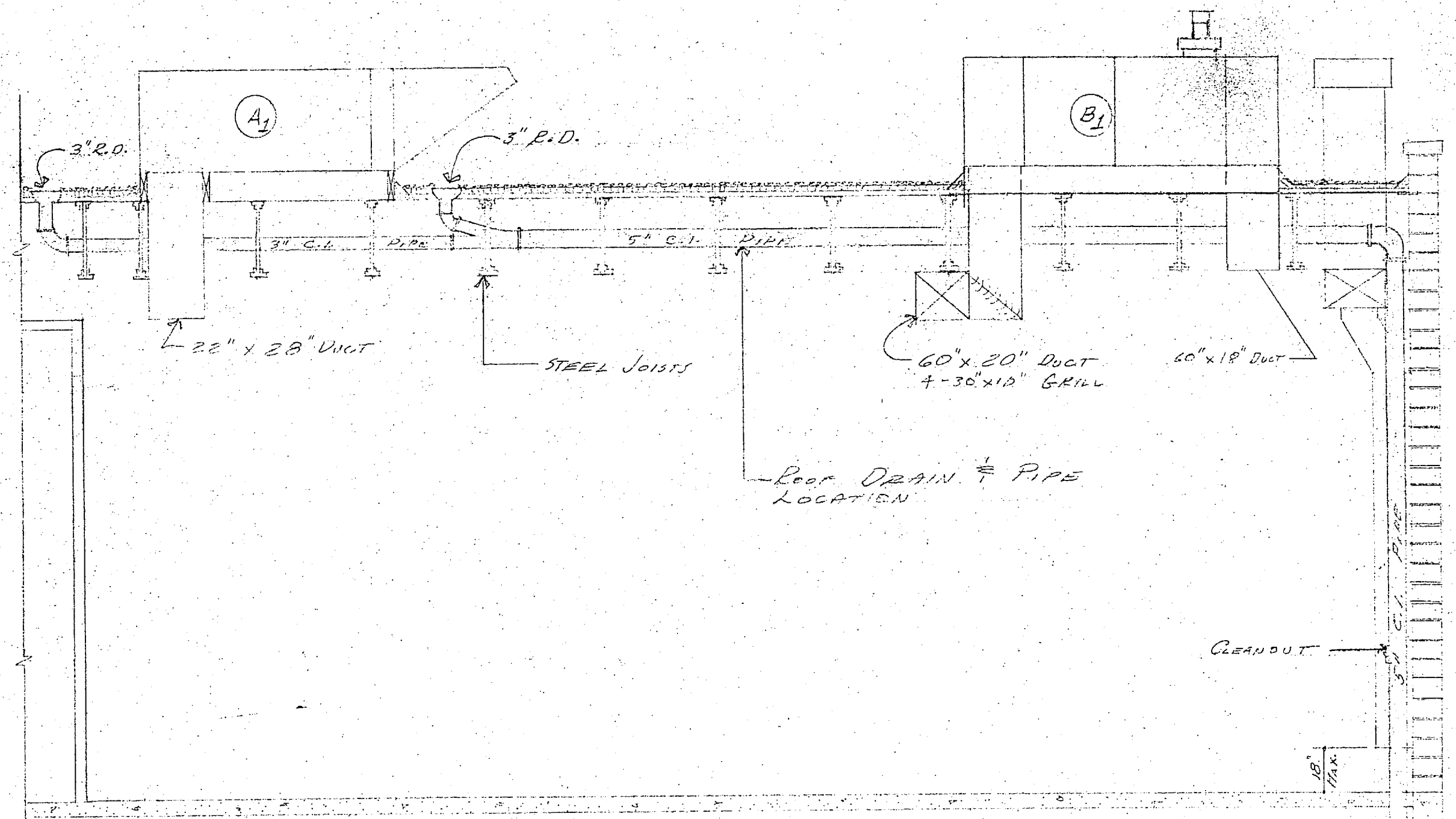
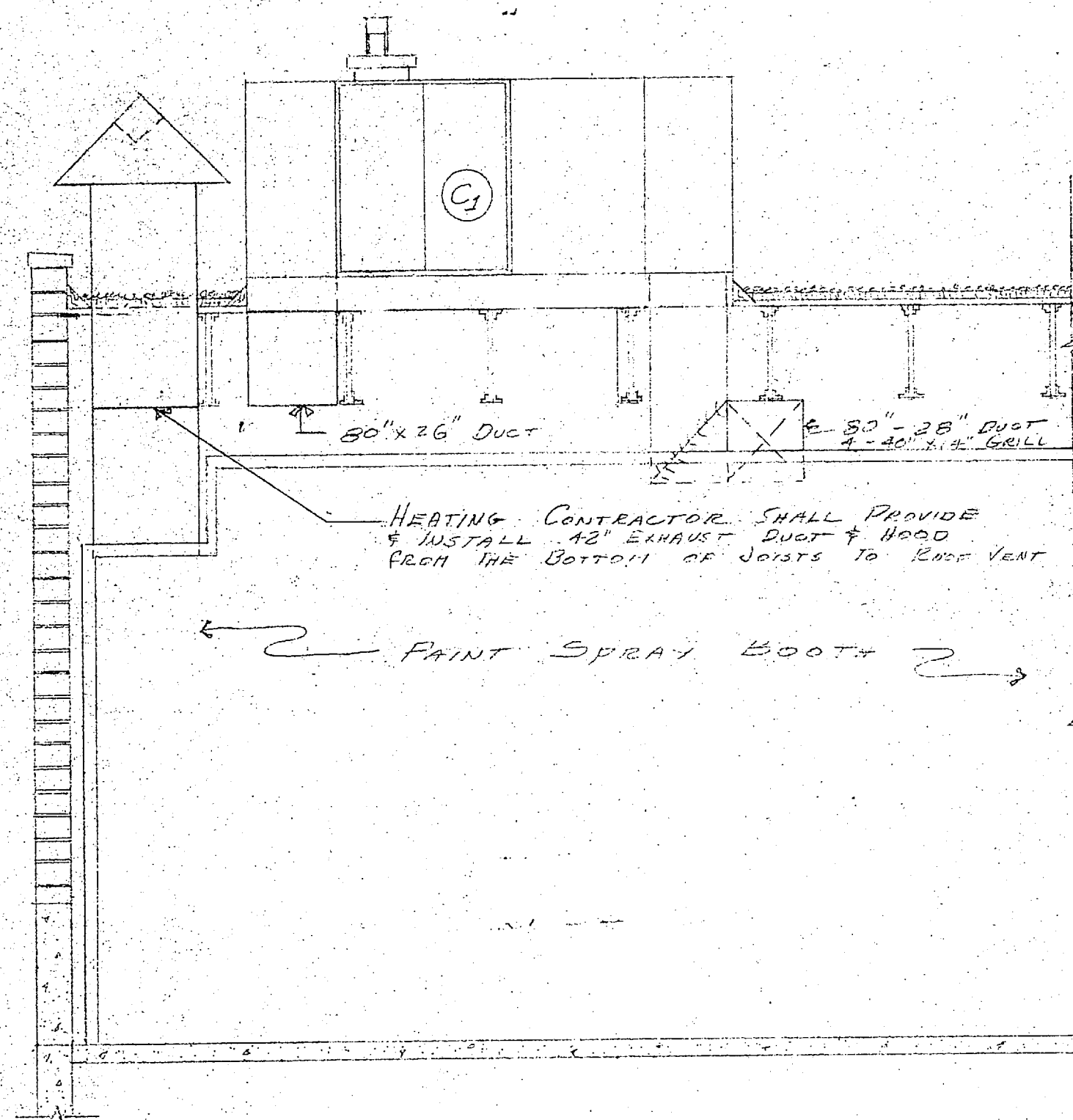
PROPOSED PAINT & BODY
SHOP ADDITION TO THE
SERVICE GARAGE

CITY OF MADISON - BLDG. INSP. DEPT.

DRAWN 7/10/67
APPROVED R.T. BART

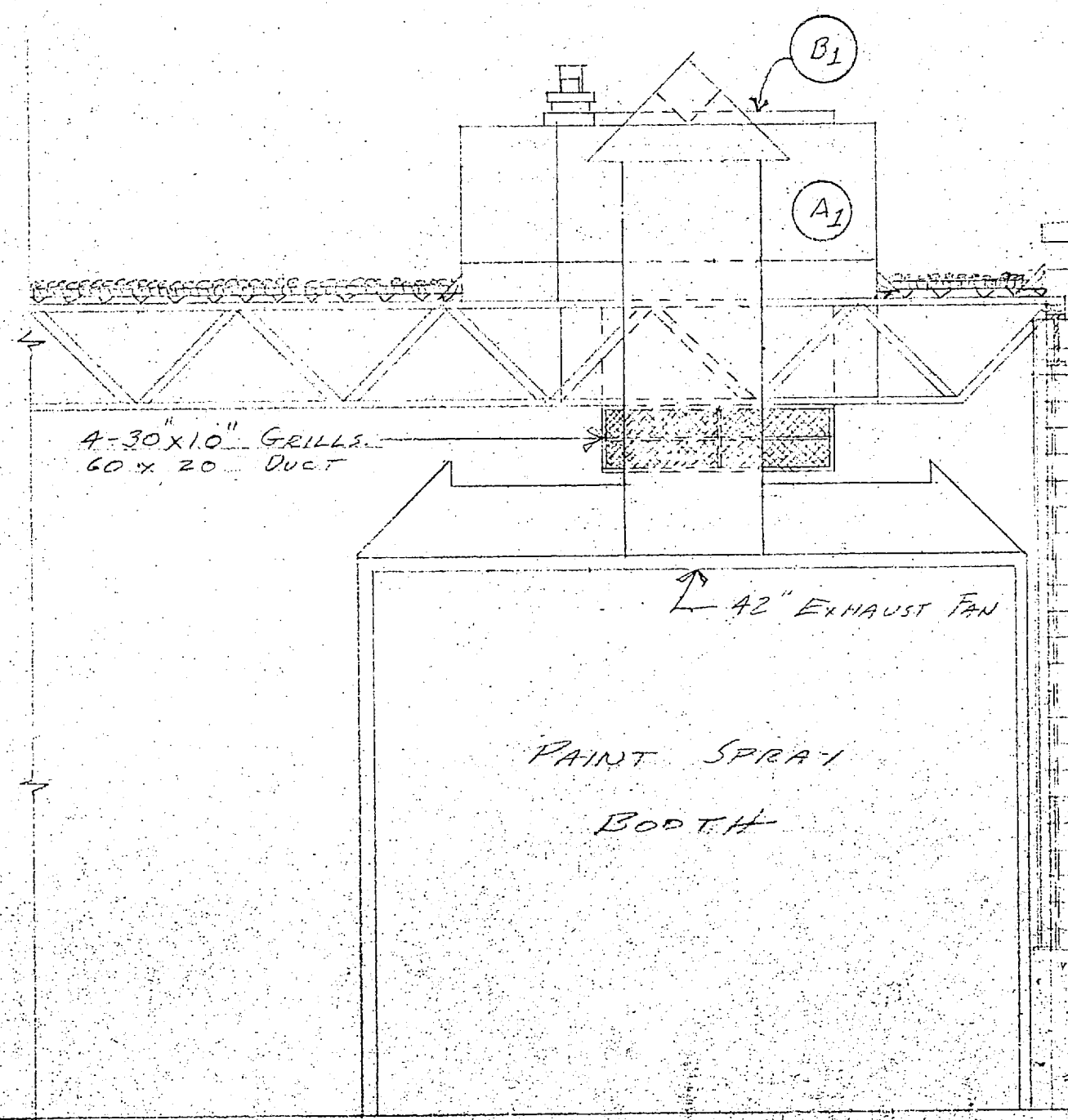
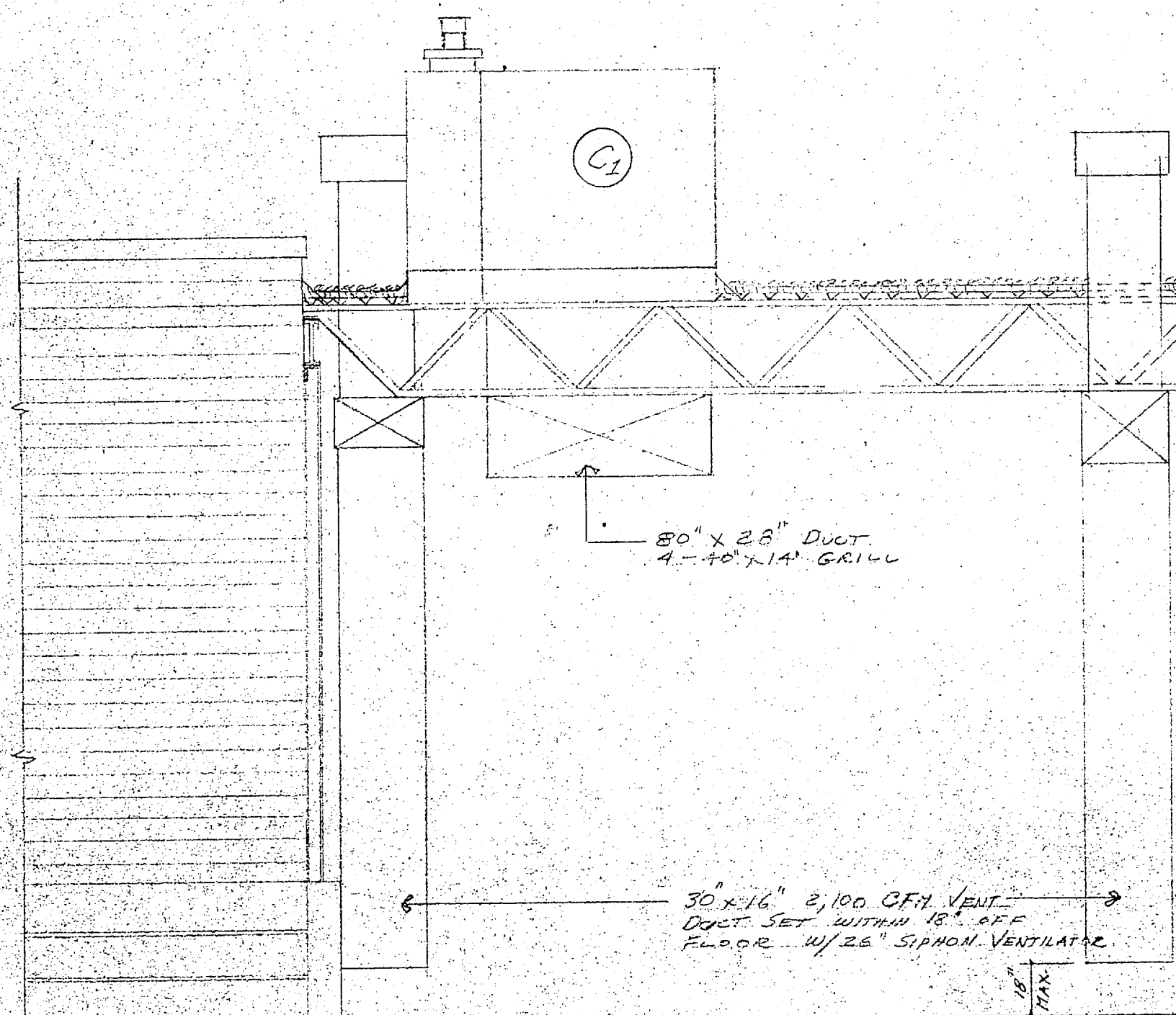
SHEET 6 OF 8

8-1-67



SECTION "C-C"
SCALE 1/4" = 1'-0"

TIE THIS PIPE INTO
EXISTING STORM SEWER
UNDERGROUND. SEE SH. 1



SECTION "D-D"
SCALE 1/4" = 1'-0"

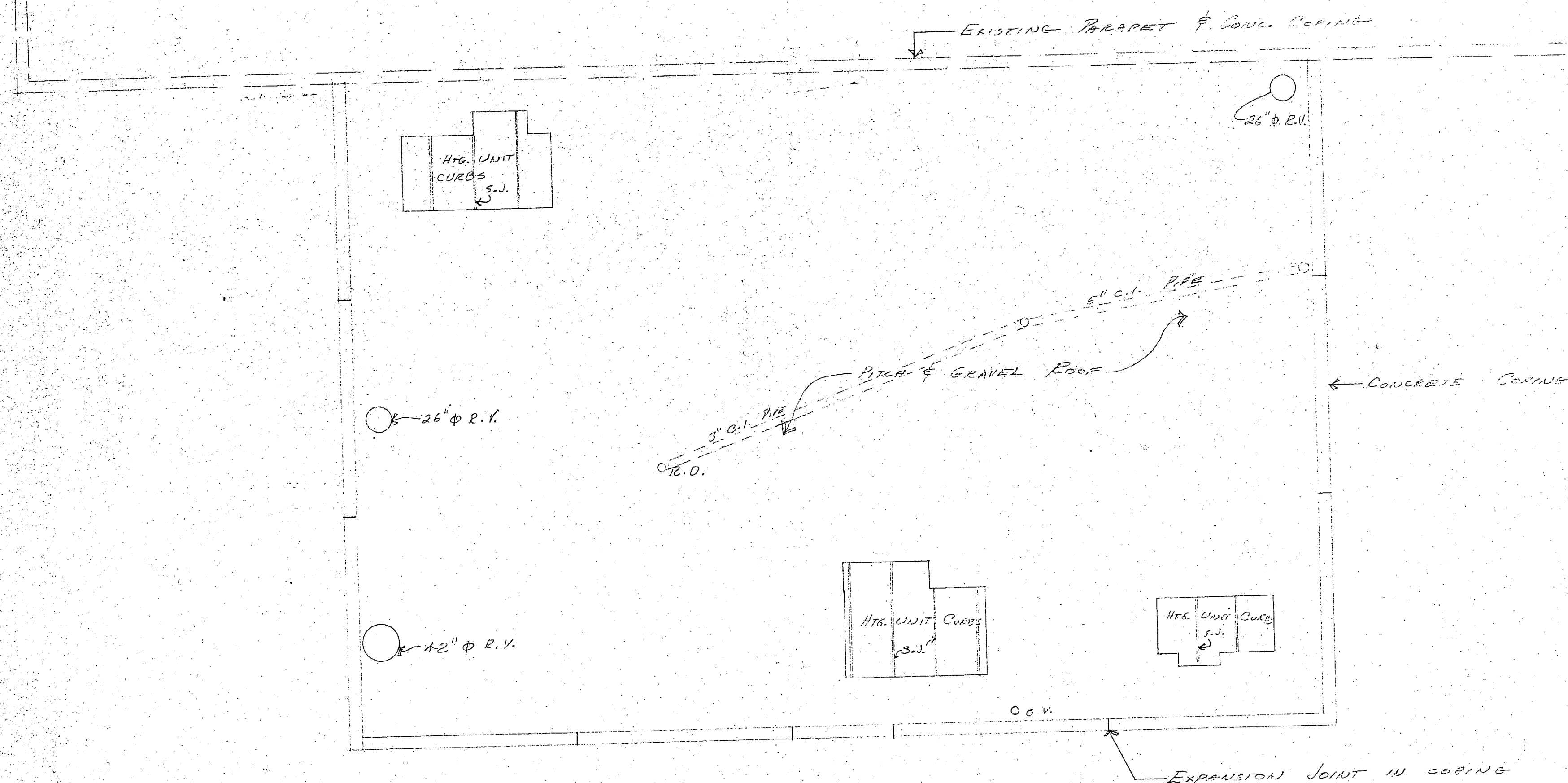
HEATING & STEEL JOIST SECTIONAL VIEWS

PROPOSED PAINT & BODY
SHOP ADDITION TO THE
SERVICE GARAGE

CITY OF MADISON - BLDG. INSP. DEPT.
DRAWN 1/26/67
APPROVED D. J. [Signature] SHEET 7 OF 8.

8-1-67

EXISTING BUILDING



ROOF PLAN

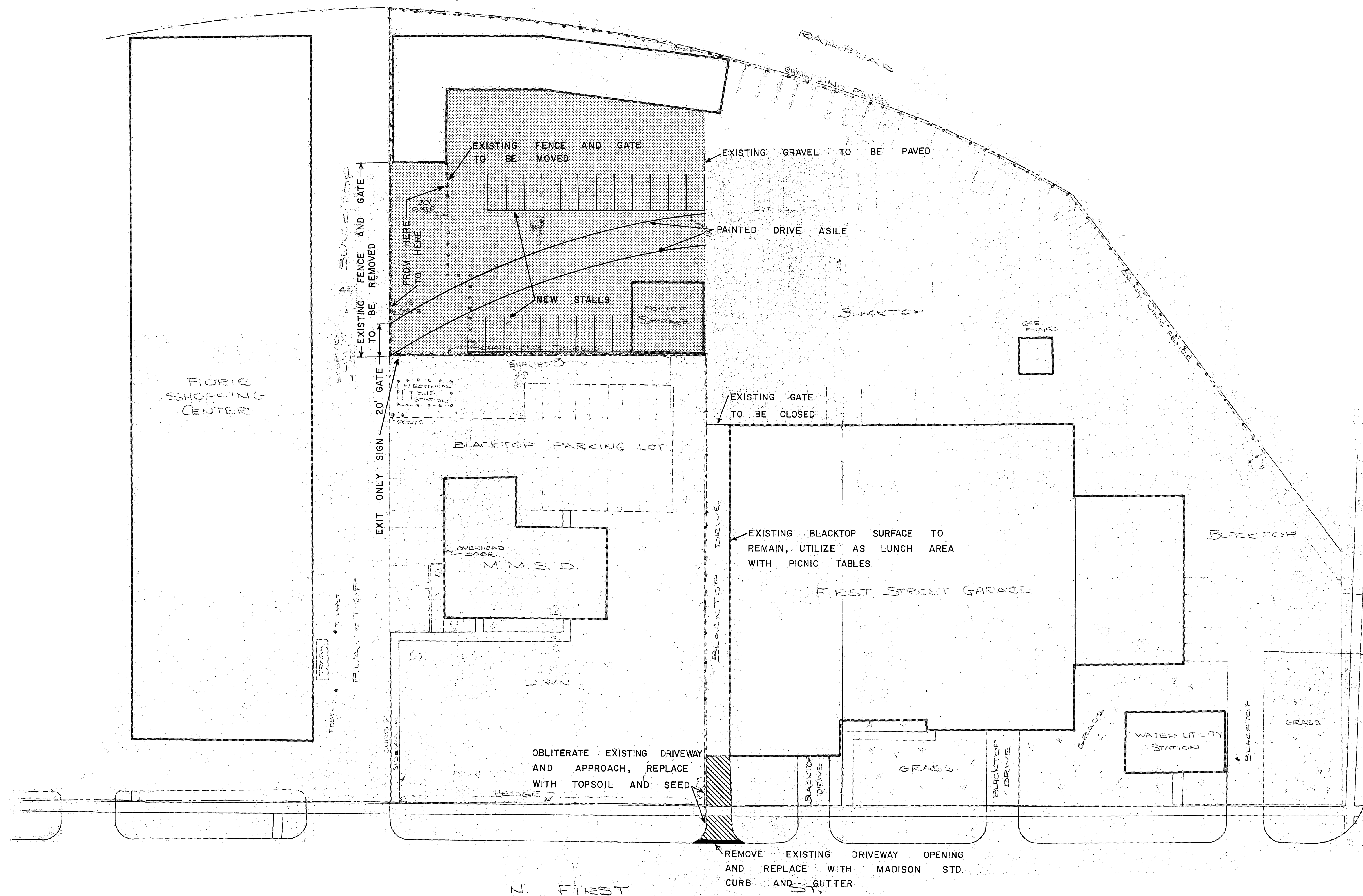
SCALE 1/8" = 1'-0"

PROPOSED PAINT & BODY
SHOP ADDITION TO THE
SERVICE GARAGE

CITY OF MADISON - BLDG. INSP. DEPT.

DRAWN W. J. Burt SHEET 8 OF 8
APPROVED R. J. Burt

1973 - Parking Lot Improvements



OFF-SITE DRAINAGE
ACCEPTED
ASST. CITY ENGINEER
BY *James M. McElroy*
DATE 3/20/73
CONDITIONAL
PER LETTER DATED

PARKING LOT PLAN
APPROVED
In accordance with Section 10.08 of the
General Ordinances
CITY OF MADISON

DATE 3/16/73
TRAFFIC ENGINEER
James M. McElroy
POLICE DEPT.

FIRST STREET GARAGE

PARKING LOT & ACCESS IMPROVEMENT

MARCH 14, 1973

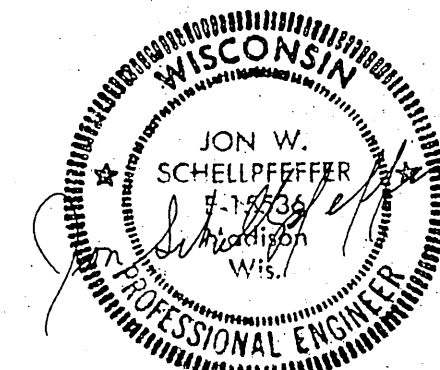
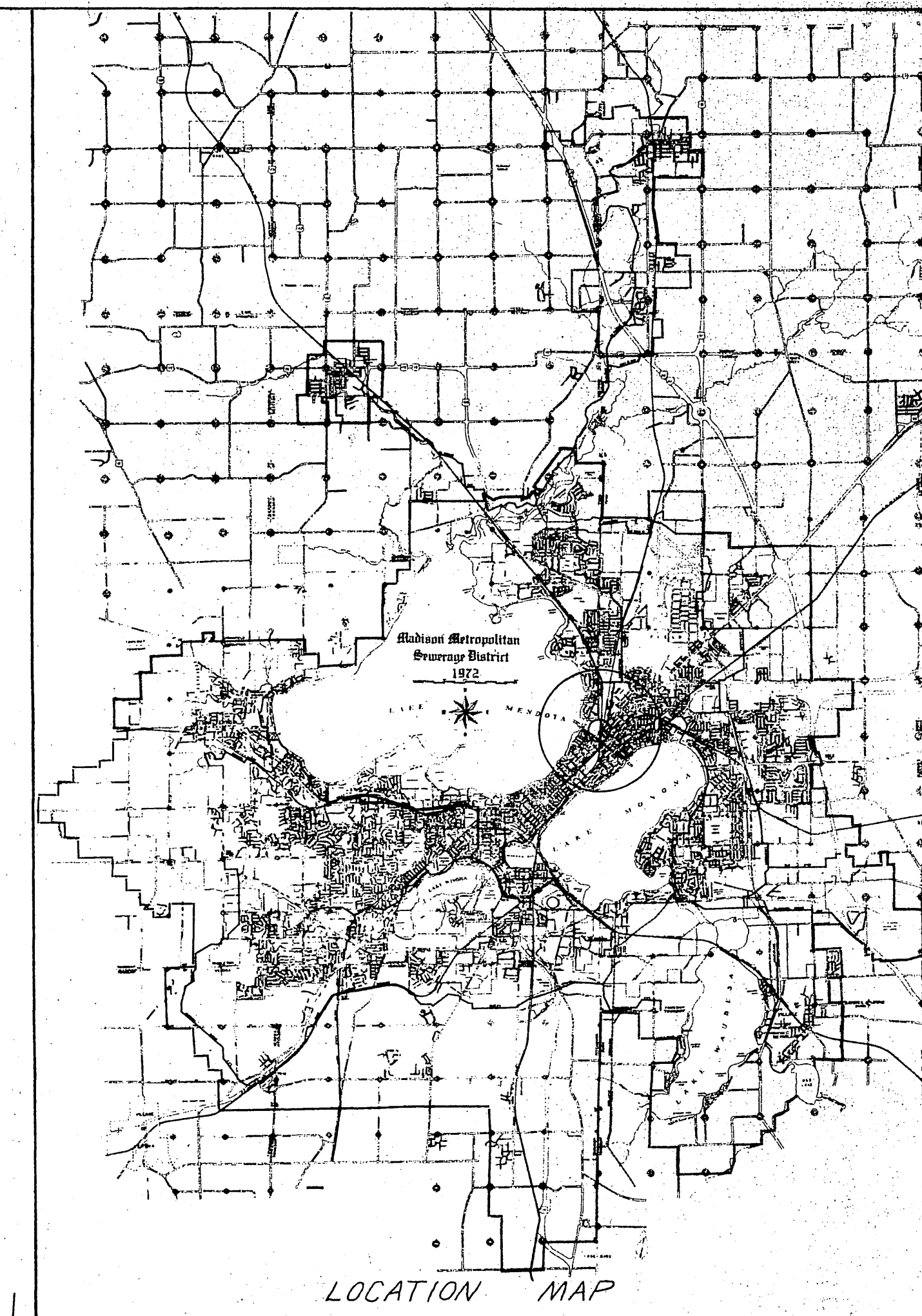
SCALE 1" = 30'

ZONING APPROVED
Date 3-15-73 BY *James M. McElroy*
Zoning Administrator
MADISON - WISCONSIN

200 N. FIRST ST.

1978 - Relief Sewer

MADISON METROPOLITAN SEWERAGE DISTRICT
AUGUST, 1978



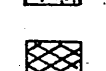
AS BUILT

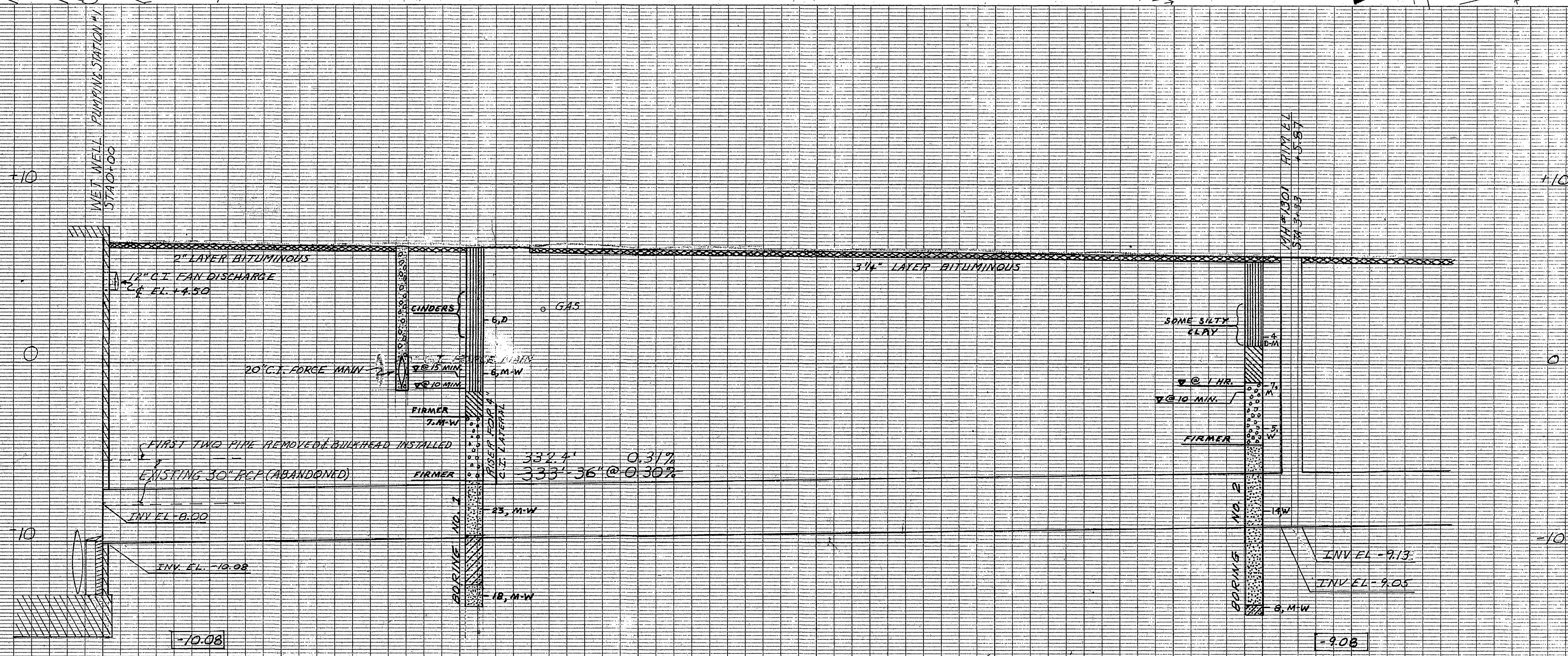
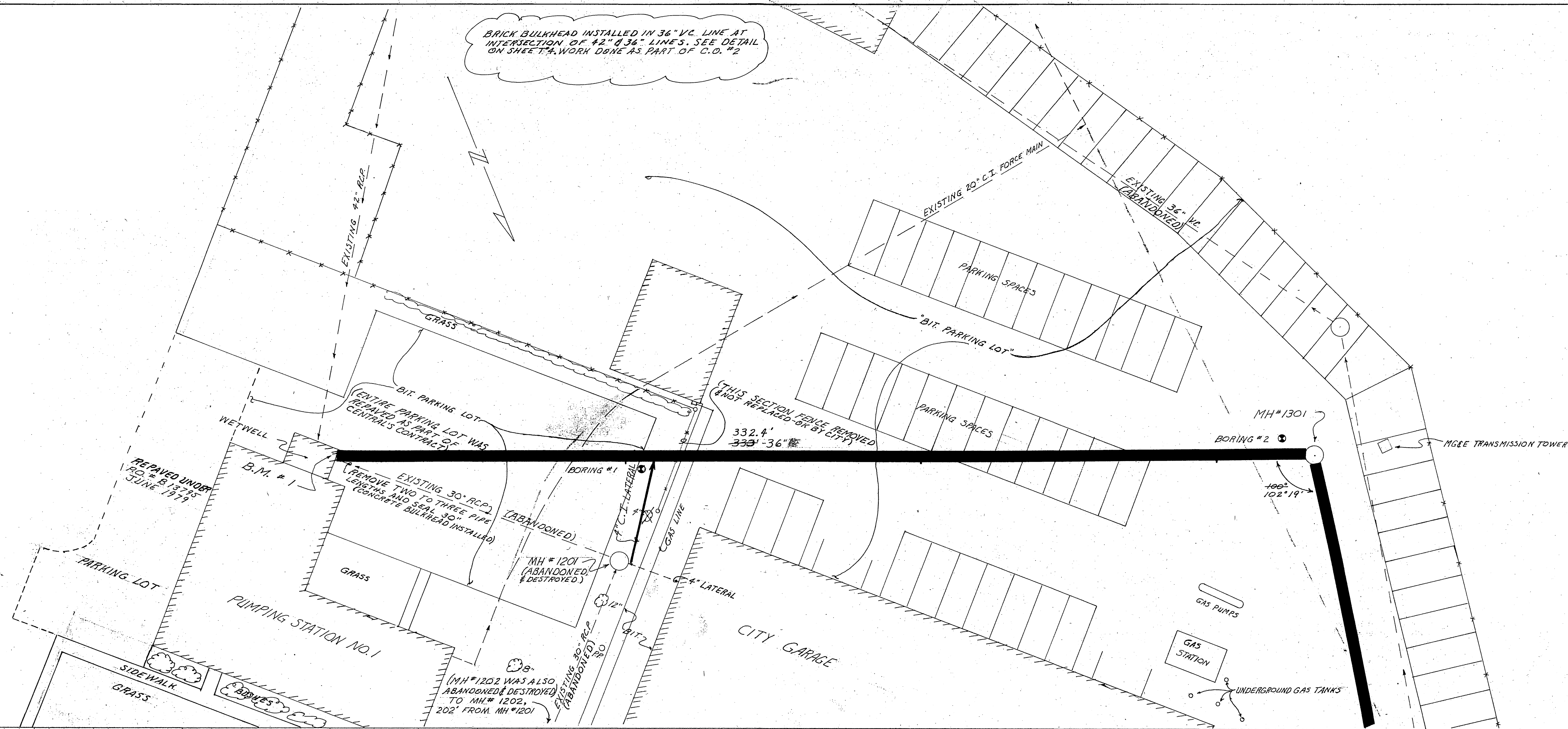
B.M.	DESCRIPTION	ELEV.
1	"X" CHISELED IN CONCRETE - CORNER OF WETWELL	+7.48

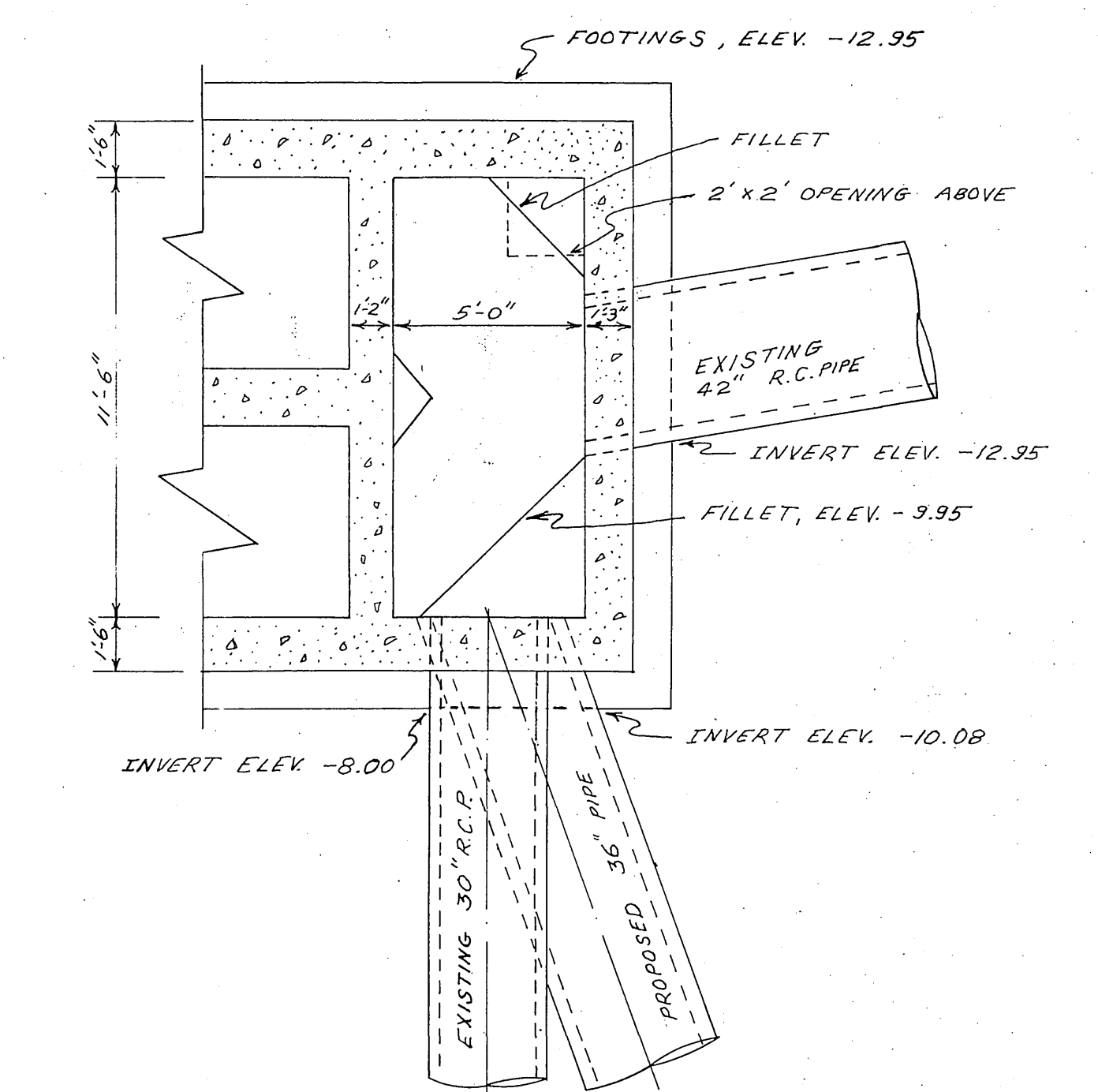
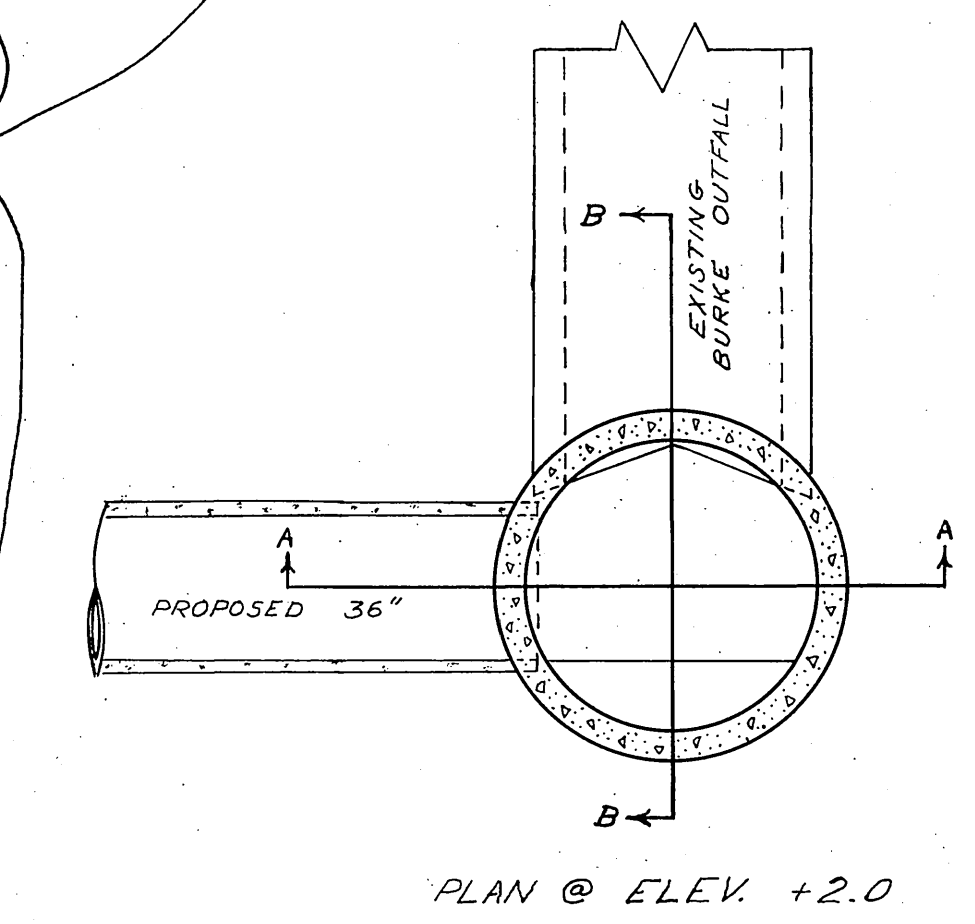
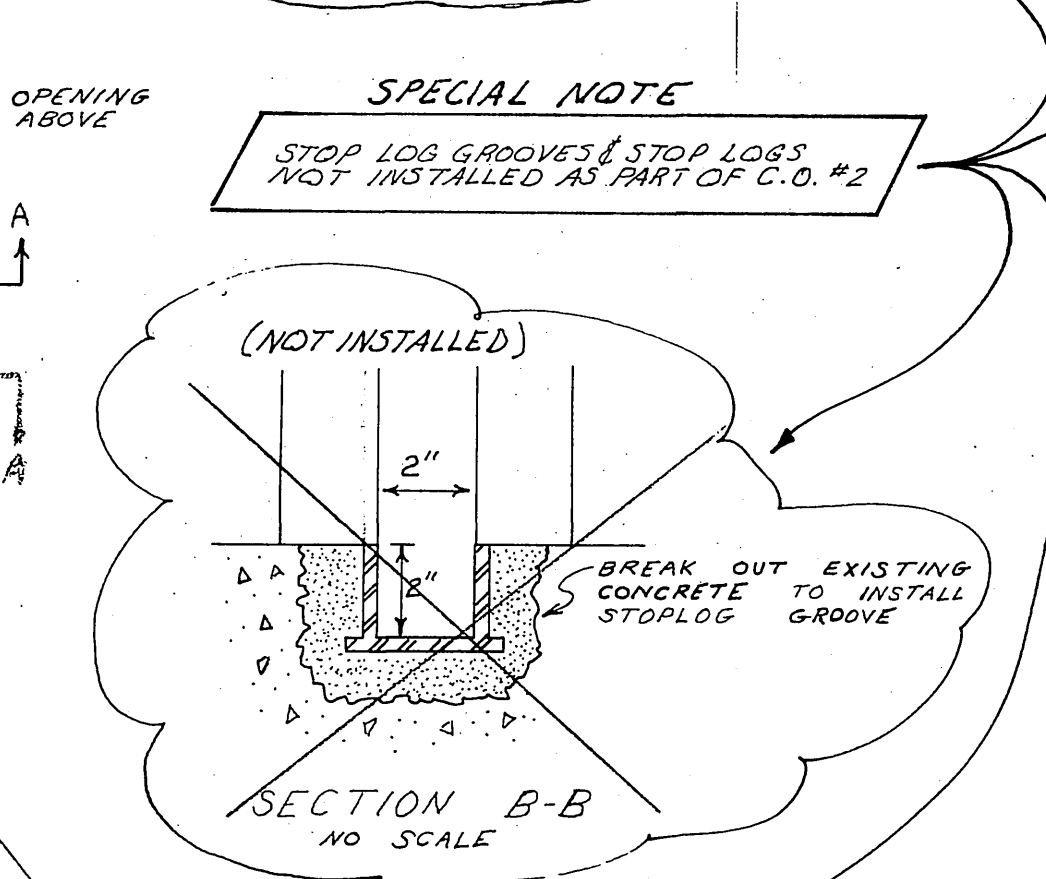
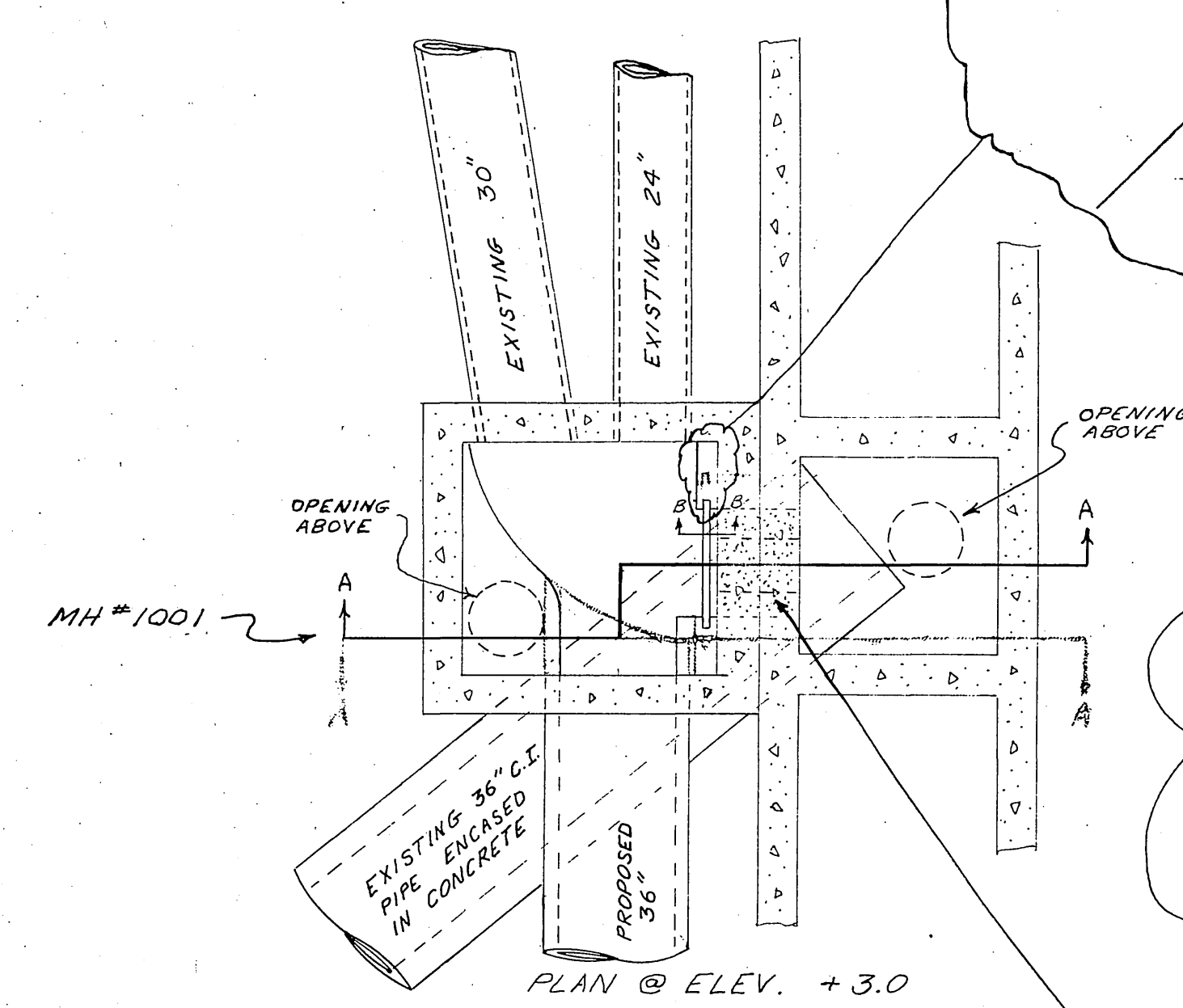
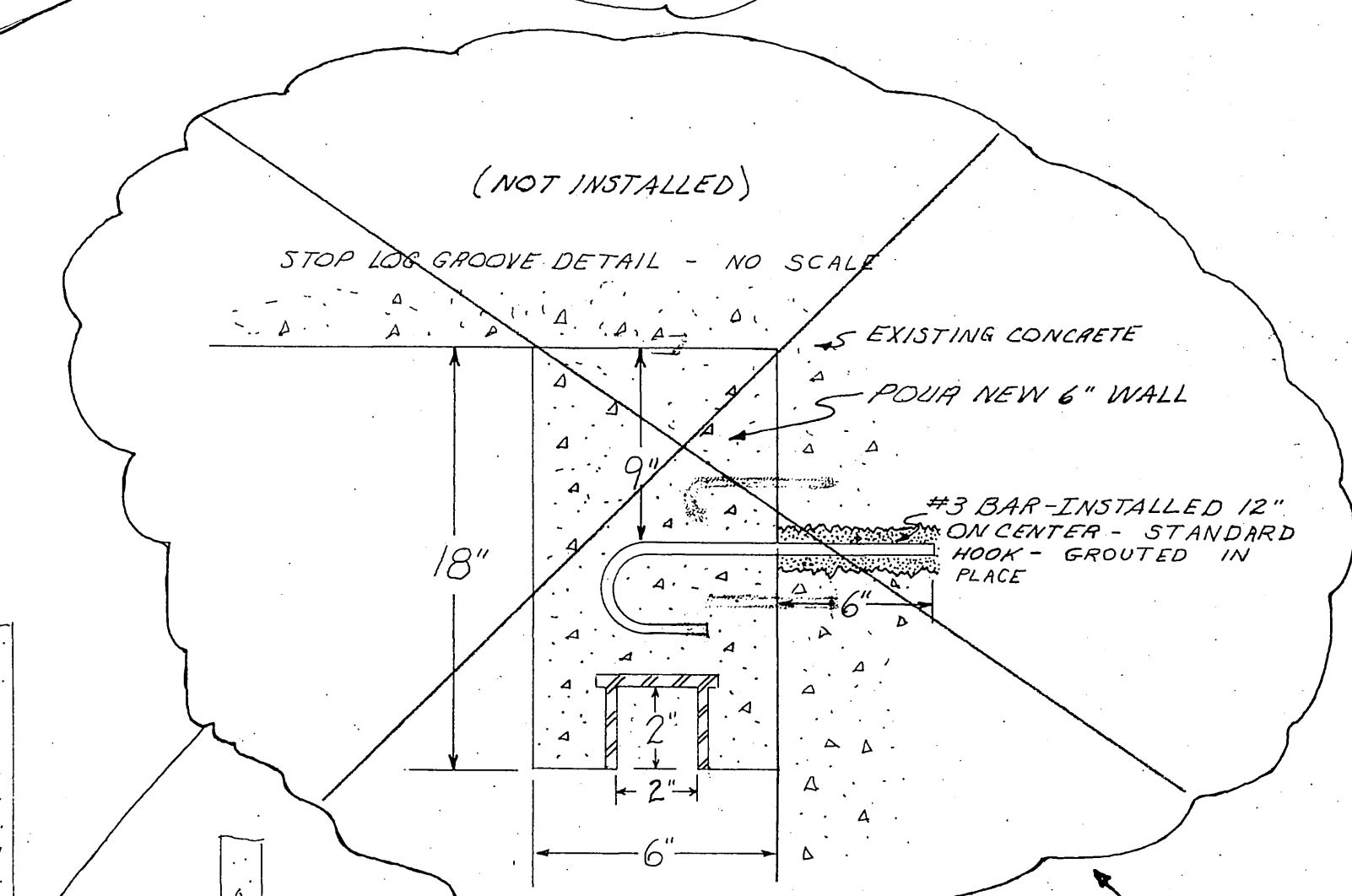
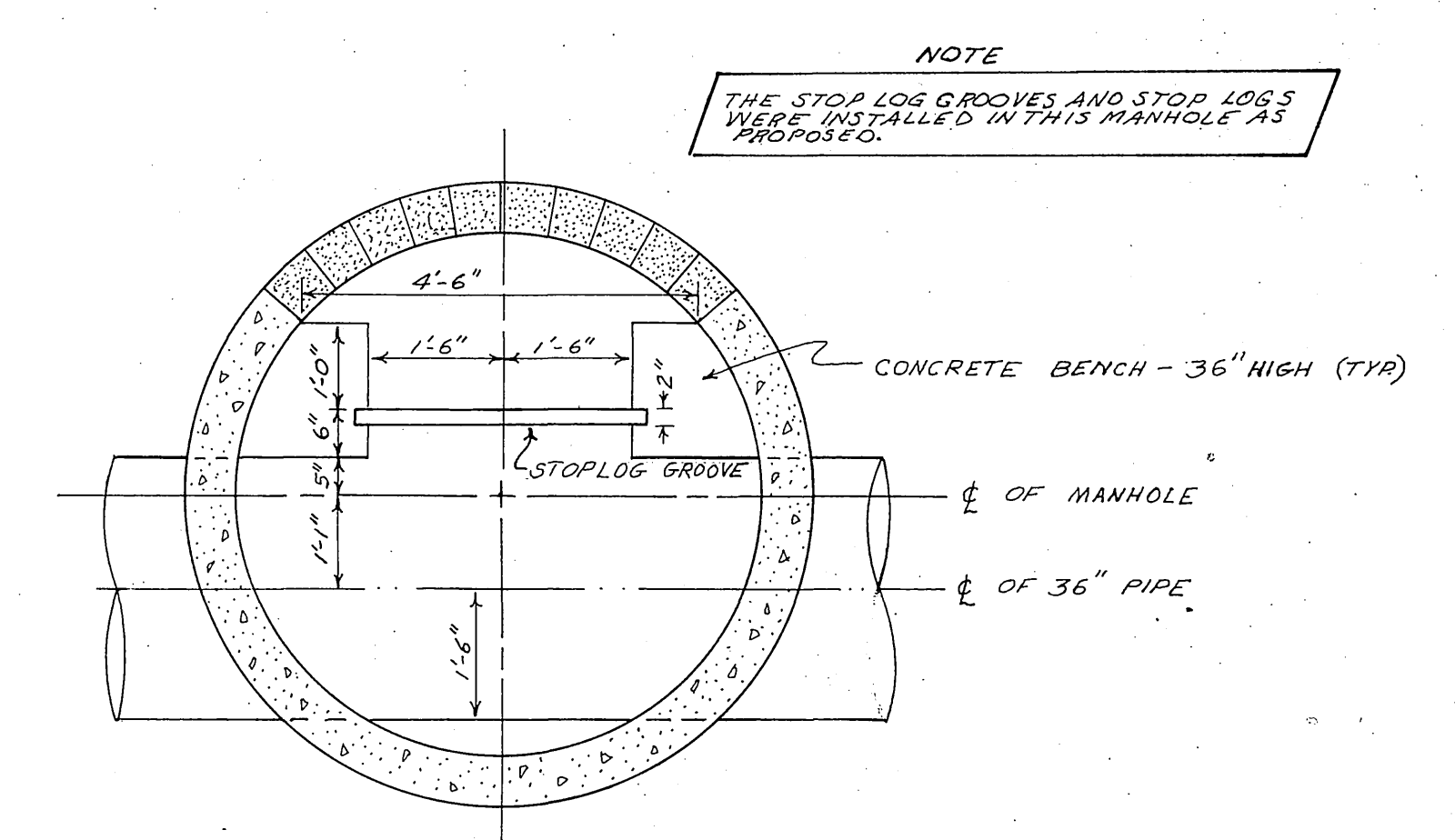
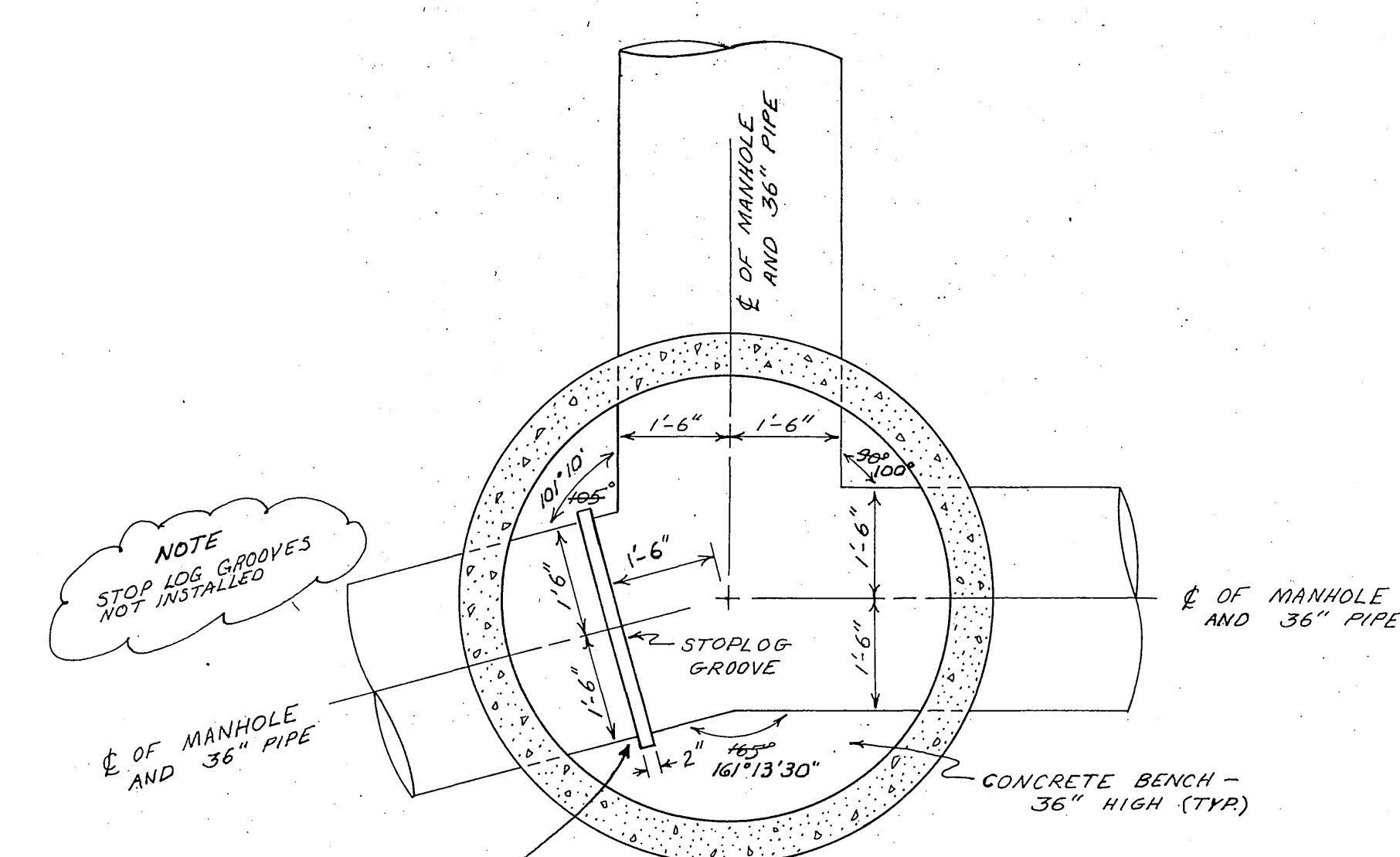
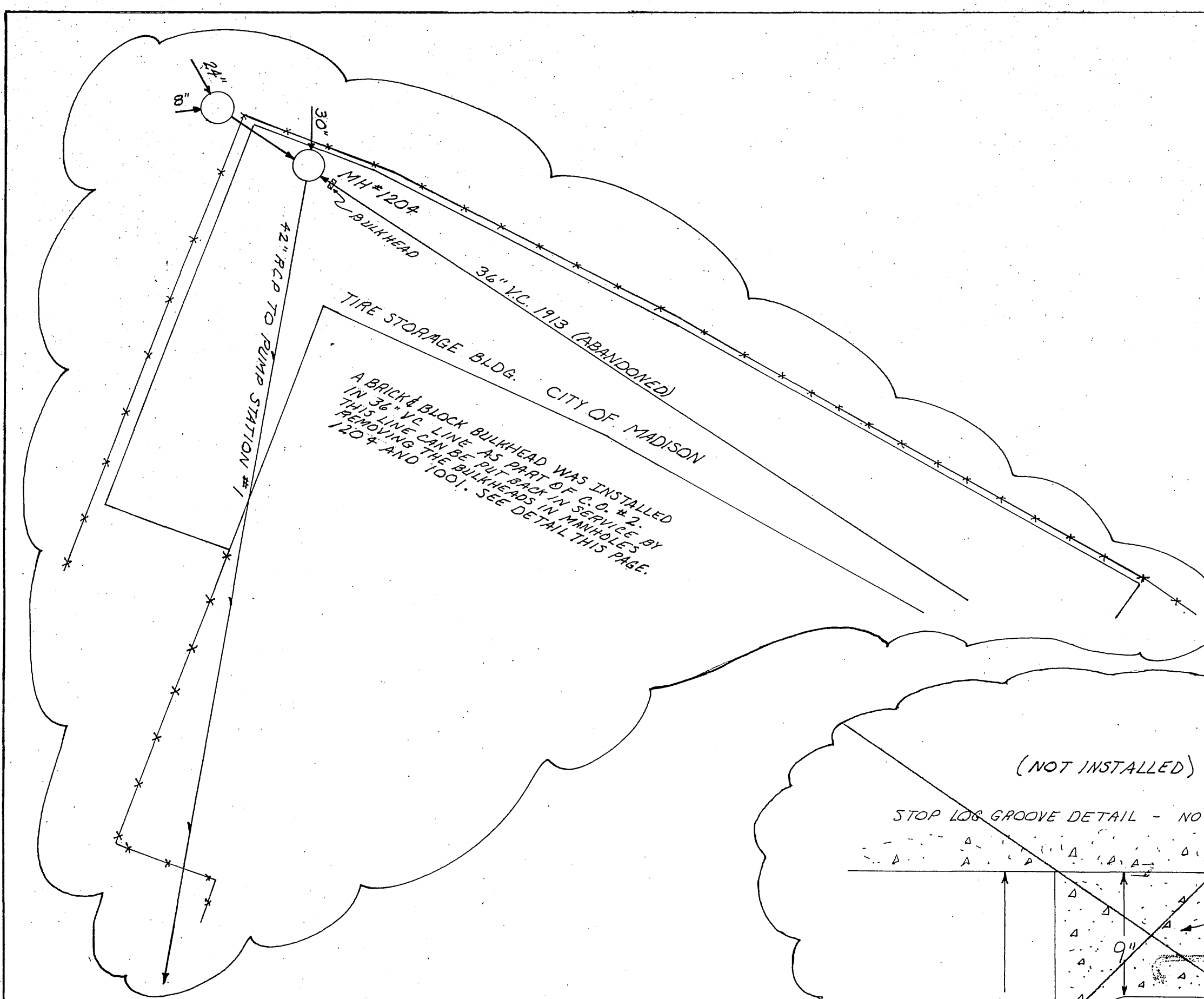
- NOTES:
- BORES 1, 2 & 3 WERE PERFORMED BY STANDARD PROCEDURE (ASTM TEST DESIGNATION D1586-67).
 - THE NUMBER OF BLOWS REQUIRED TO DRIVE THE 2-INCH O.D. SPLIT SPOON SAMPLER 12 INCHES WITH A 140-LB. WEIGHT FALLING 30 INCHES IS RECORDED ALONG THE EDGE OF EACH BORING LOG. THIS IS THE "STANDARD PENETRATION TEST".
 - BORINGS WERE PERFORMED ON AUG. 4, 1978.

MOISTURE CONTENT OF SAMPLES:

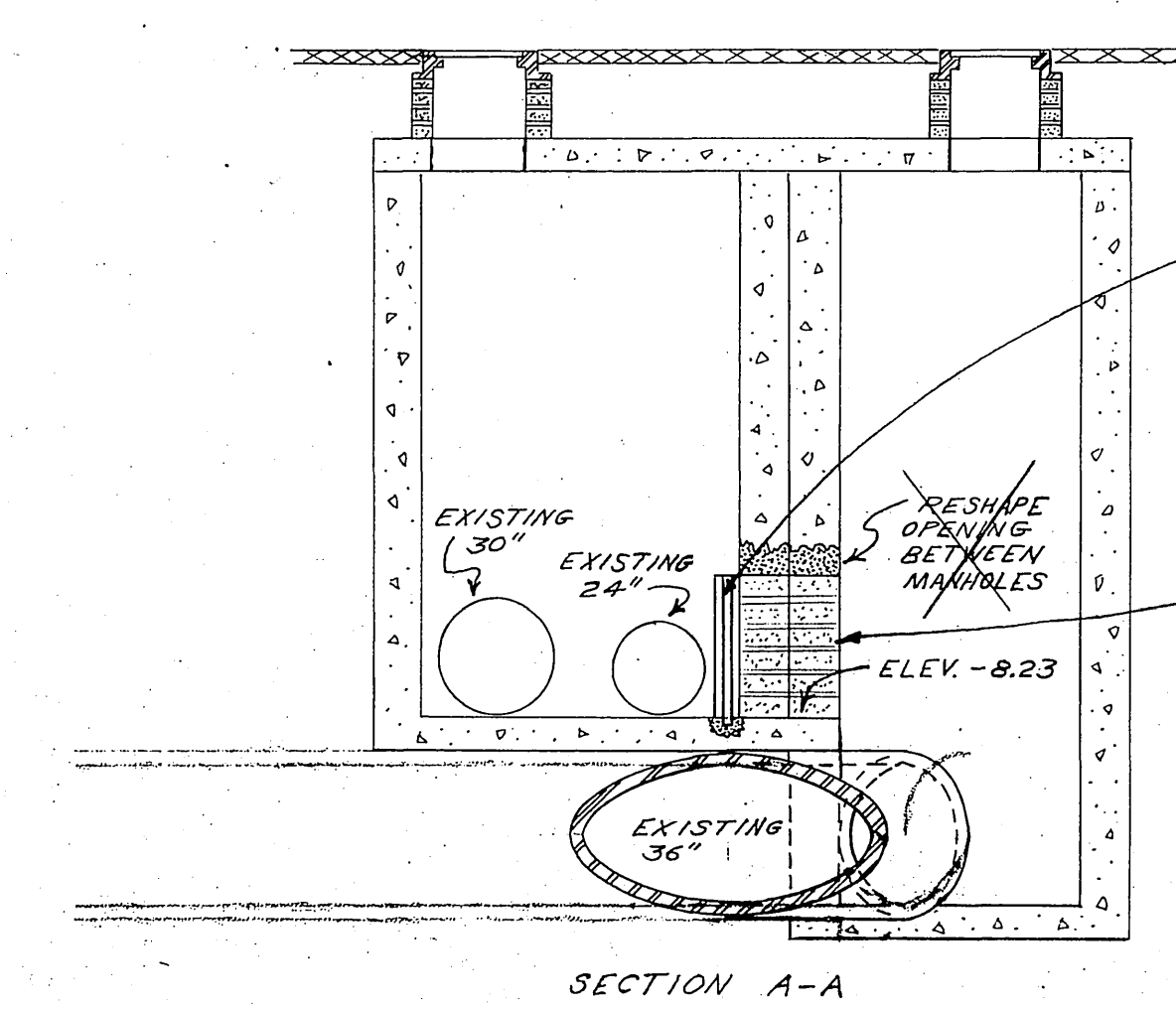
D - DAMP W - WET
M - MOIST S - SATURATED

-  FILL: MOSTLY SLIGHTLY SILTY F.M. SAND WITH GRAVEL
 BLACK TO DARK BROWN FIBROUS PEAT
 GRAY F.M. SAND WITH MARL
 GRAY VERY FINE TO FINE SAND
 LAYERS OF GRAY SILTY CLAY & CLAYEY SILT WITH VERY FINE SAND, SIZING VARIED
 GRAVEL
 BLACKTOP
 WATER LEVEL AT TIME SHOWN AFTER COMPLETION OF BORING

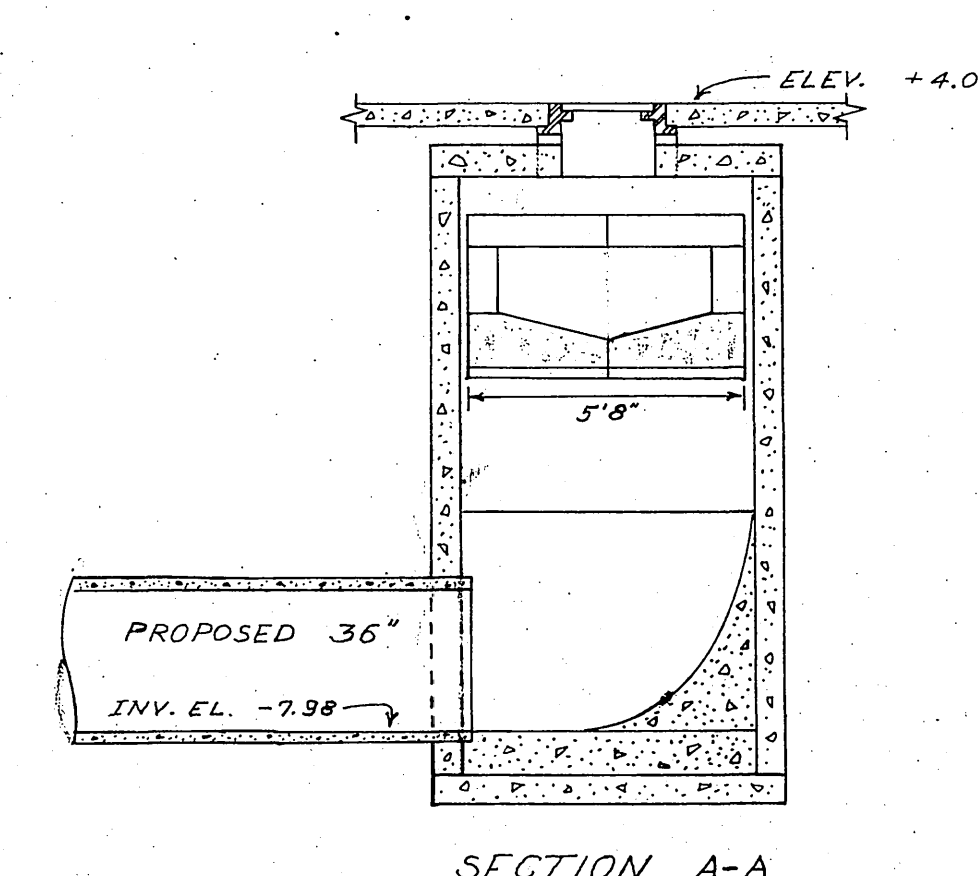




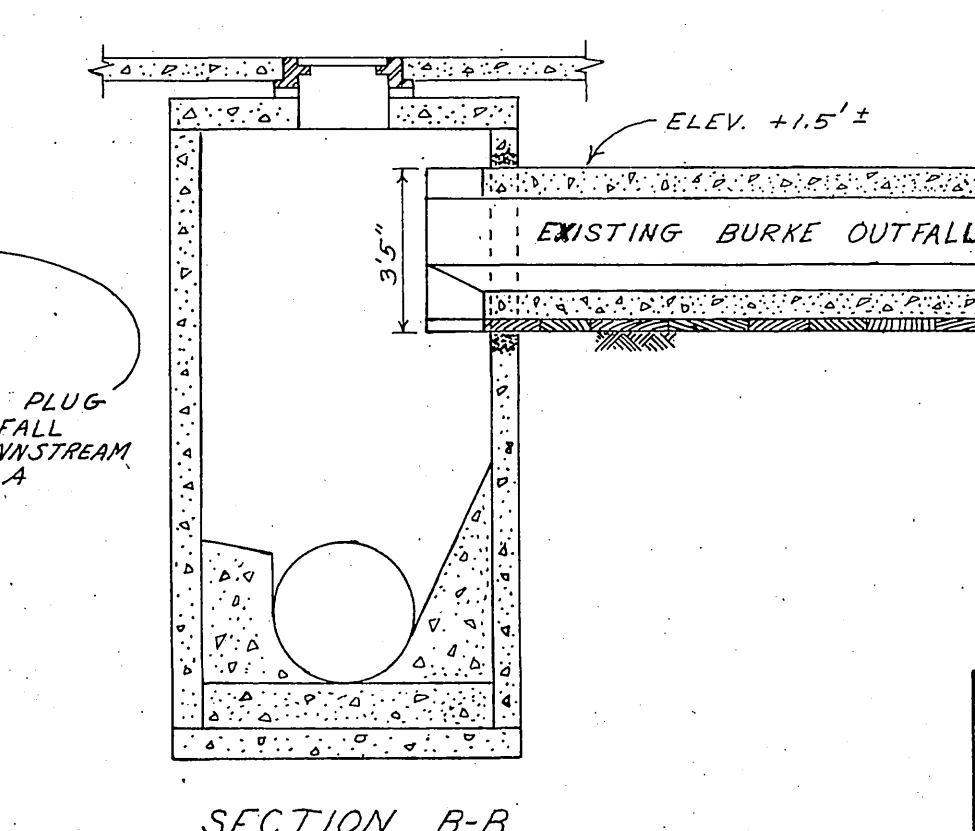
PLAN DETAIL
PUMPING STATION NO. 1 WET WELL
SCALE: 1/4" = 1'



MANHOLE # 1001 DETAILS
SCALE: 1/4" = 1'



MANHOLE # 1305 DETAILS
SCALE: 1/4" = 1'



1992 - Fueling Facility.PDF

ADDITIONS AND REMODELING FOR THE CITY OF MADISON MADISON, WISCONSIN

DRAWING INDEX

PROJECT A

ENGINEERING DIVISION TRAINING ADDITION
1602 EMIL STREET
MADISON, WISCONSIN

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Site Survey

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A-3.01 Foundation Plan, Framing Plan,
Structural Details

ARCHITECTURAL DRAWINGS
A-5.01 Floor Plan, Elevations Sections
A-5.02 Wall Sections & Details
A-5.03 Door & Window Details
A-5.04 Interior Details
A-6.01 Reflected Ceiling Plan

HVAC DRAWINGS
A-8.01 Floor Plans, Schedules and
Details - HVAC

ELECTRICAL DRAWINGS
A-9.01 Floor Plan -
Lighting, Schedules
A-9.02 Floor Plan -
Power & Systems, Schedules

PROJECT B

VEHICLE FUELING FACILITY
200 NORTH FIRST STREET
MADISON, WISCONSIN

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Site Details
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B-2.03 Site Utility Plan
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ARCHITECTURAL DRAWINGS
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Sections, Details

PLUMBING DRAWINGS
B-7.01 Floor Plan & Details - Plumbing

ELECTRICAL DRAWINGS
B-9.01 Floor Plan & Schedules - Electrical

PROJECT C

PARKING UTILITY EXPANSION
1120 SAYLE STREET
MADISON, WISCONSIN

SITE DRAWINGS
C-2.01 Site Plan
C-2.02 Site Utility Plan
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DEMOLITION DRAWINGS
C-4.01 Demolition Plan

ARCHITECTURAL DRAWINGS
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Plan Details
C-5.02 Elevations, Sections,
Partition Types
C-5.03 Wall Sections & Details
C-5.04 Door & Window Details
C-6.01 Reflected Ceiling Plan

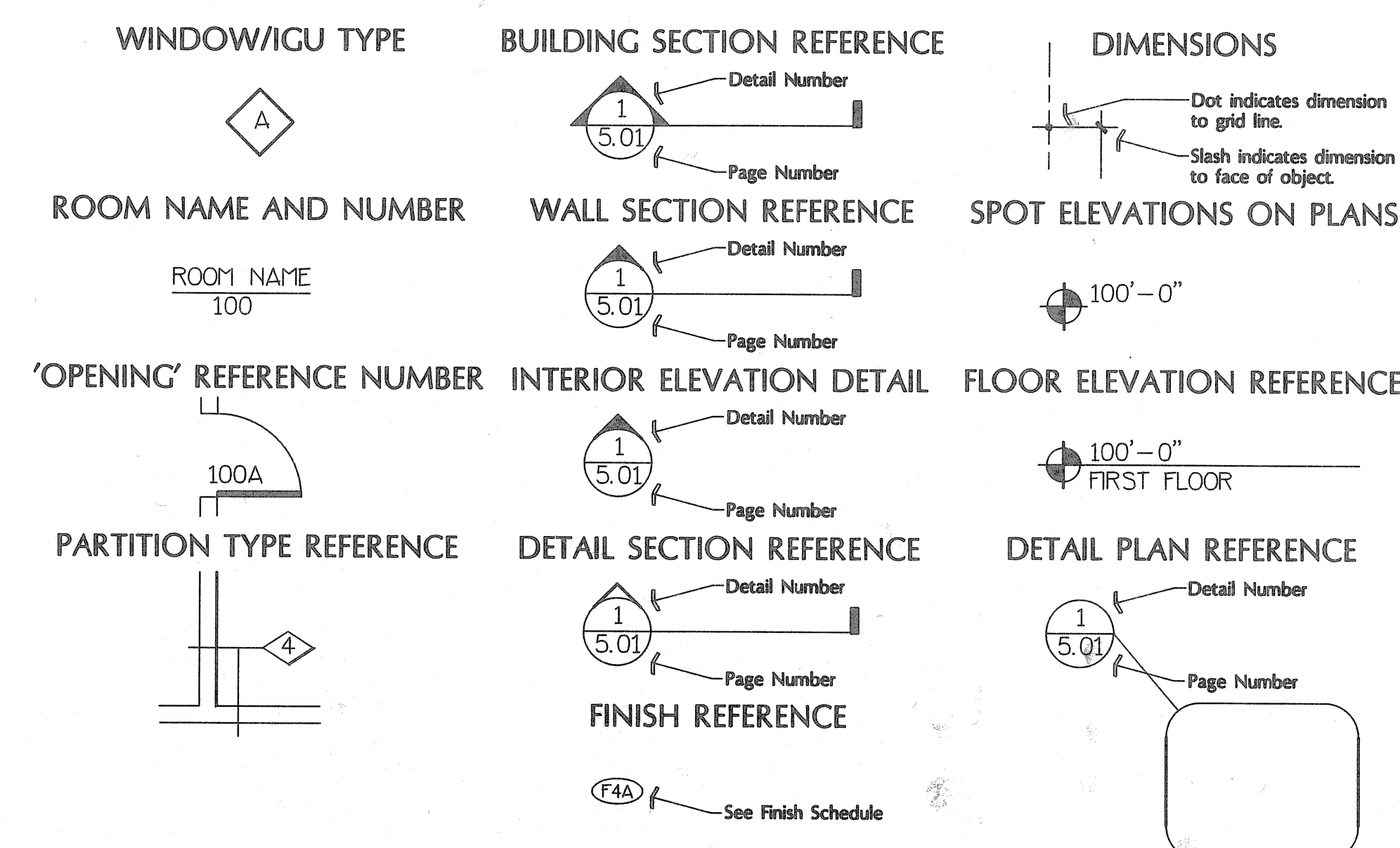
PLUMBING DRAWINGS
C-7.01 Floor Plan & Details - Plumbing

HVAC DRAWINGS
C-8.01 Floor Plan, Schedules & Details - HVAC

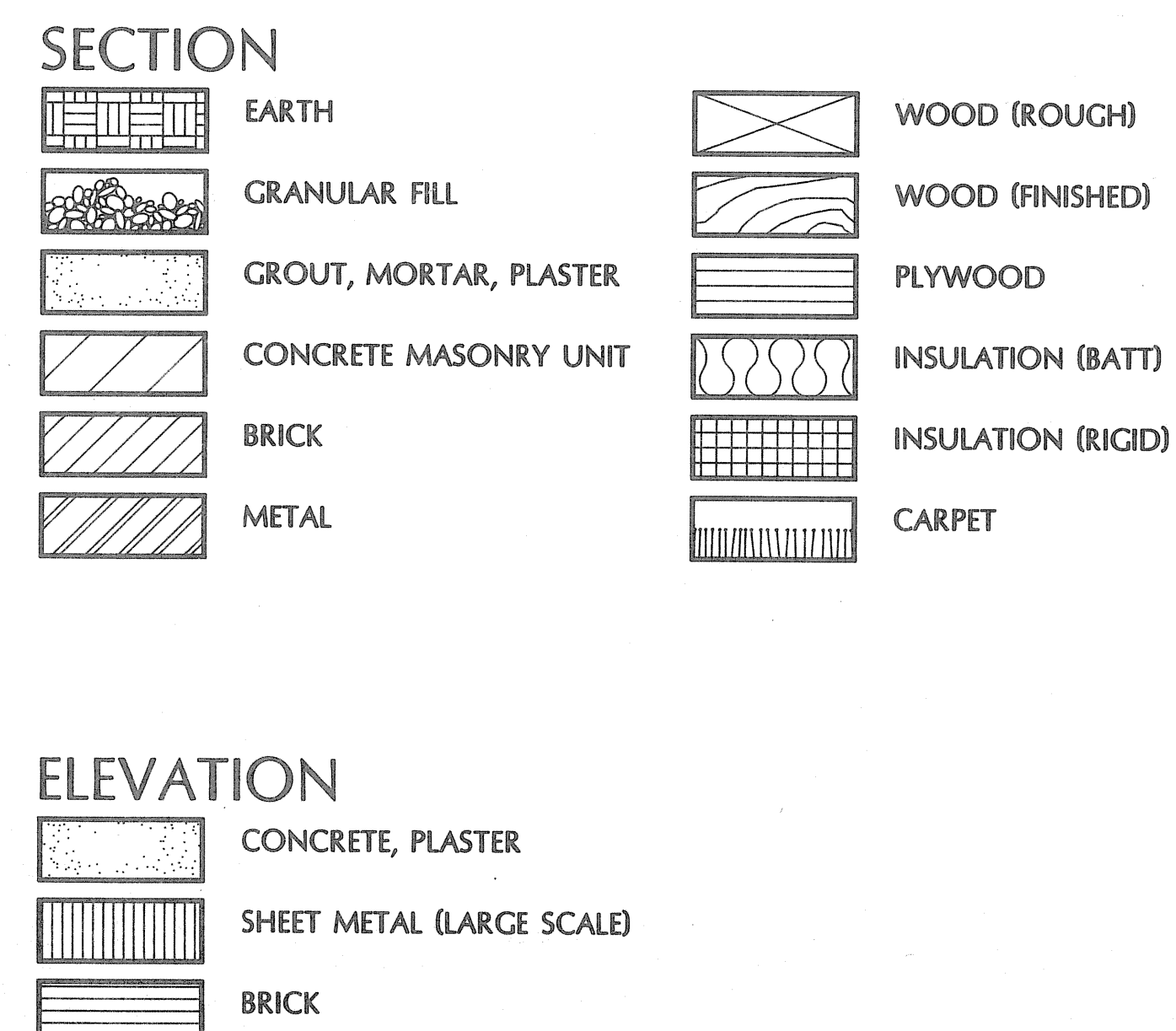
ELECTRICAL DRAWINGS
C-9.01 Floor Plan - Lighting,
Schedules
C-9.02 Floor Plan - Power & Systems, Schedules

8/26/92

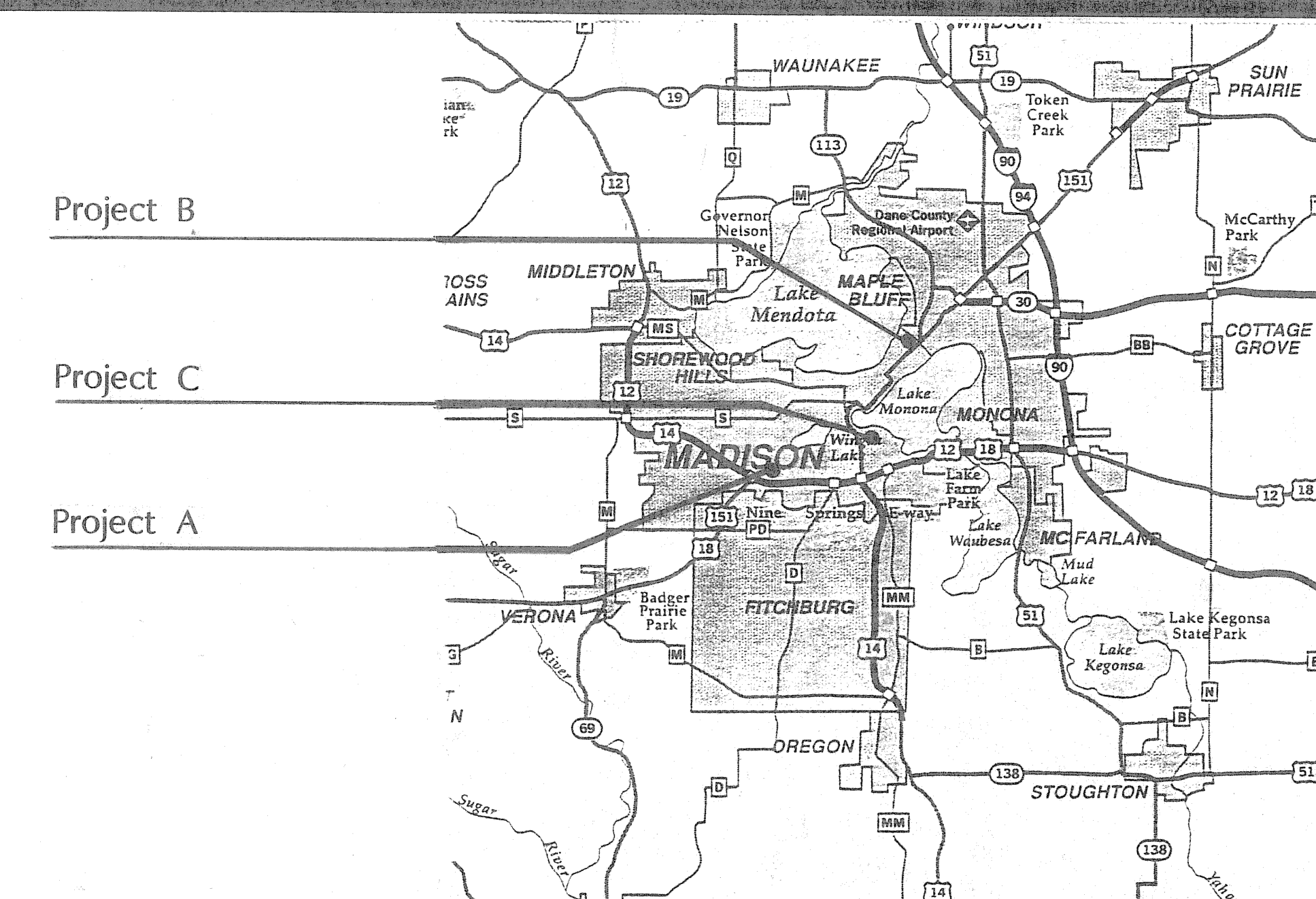
SYMBOLS



MATERIALS



LOCATION MAP



7-27-92 ISSUED FOR CONSTRUCTION

Date	Issuance / Revisions	Symbol

**ADDITIONS AND REMODELING
FOR THE
CITY OF MADISON
MADISON, WISCONSIN**

Drawing Title
TITLE DRAWING

Project No.
9202000

Drawn By
ML

Drawing No.
1.01

Consultant

Seal & Notes

- DEMOLITION NOTES**
1. DASHED LINES INDICATE ITEMS TO BE REMOVED - SEE MECH. PLANS FOR ADDITIONAL NOTES & WORK.
 2. REMOVE EXISTING CHAIN LINK FENCE
 3. REMOVE EXISTING SHRUBS & TREES
 4. REMOVE EXISTING WOOD FENCE
 5. EXISTING RECYCLING BINS TO BE RELOCATED BY OWNER
 6. EXISTING OIL RECYCLING CENTER & GRAVEL BED TO BE REMOVED BY OWNER
 7. EXISTING GRAVEL RAILROAD BED. REMOVE AS REQUIRED TO PROVIDE 12" TOP SOIL ABOVE.
 8. EXISTING DEPRESSION.

7-27-92 ISSUED FOR CONSTRUCTION

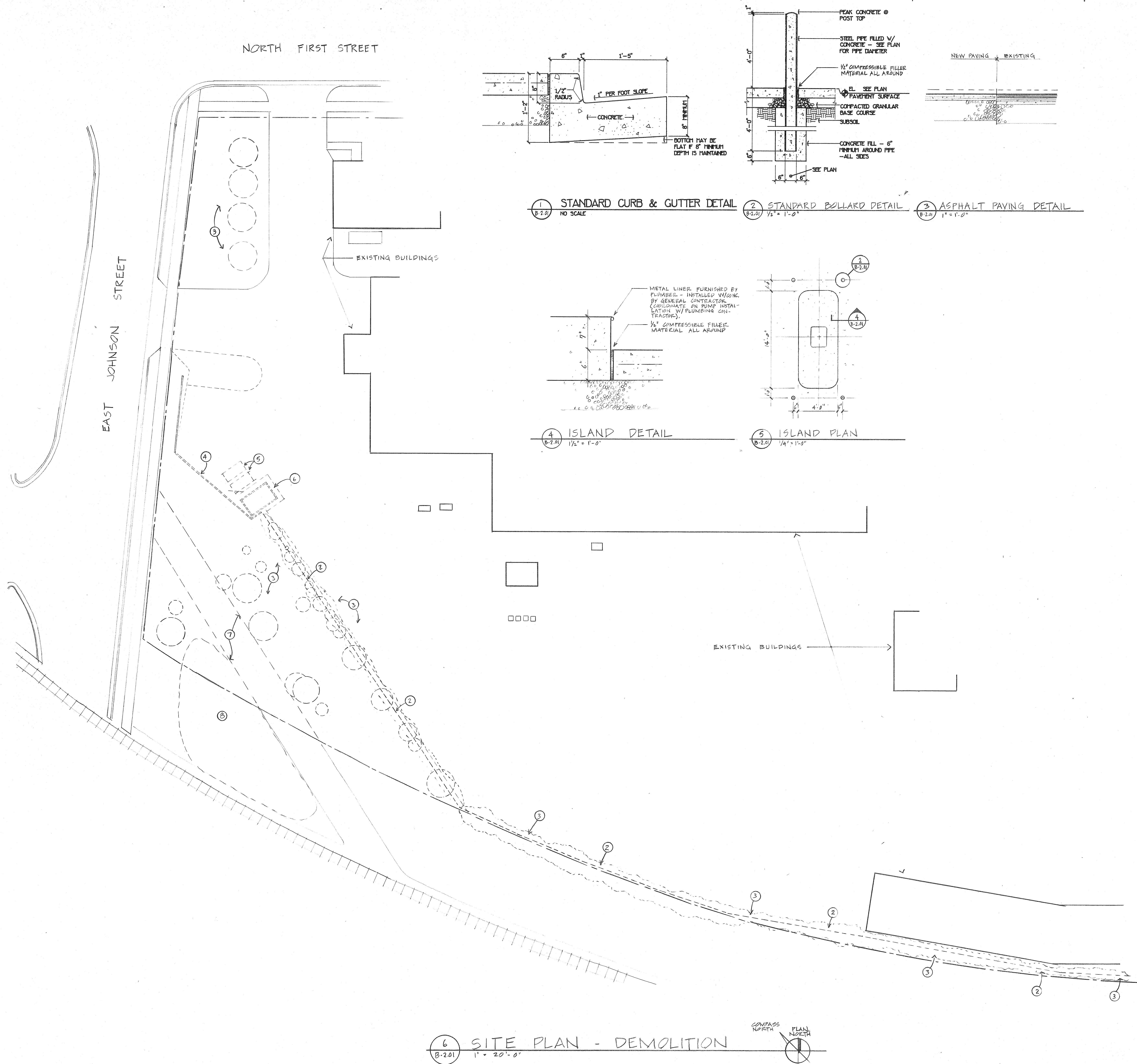
Date	Issuance / Revisions	Symbol

**ADDITIONS AND REMODELING
FOR THE
CITY OF MADISON
MADISON, WISCONSIN**

Drawing Title
**SITE PLAN - DEMOLITION
& SITE DETAILS**

Project No. 12026.00	Drawing No.
Drawn By RF	

B-2.01



_____ - _____ PROPERTY LINE
 _____ - _____ NEW FENCE LINE
 _____ - x _____ EXISTING FENCE LINE
 (SEE DEMO PLAN)

7.27.92	ISSUED FOR CONSTRUCTION
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Date	Issuance / Revisions	Symbol
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ADDITIONS AND REMODELINGS FOR THE

CITY OF MADISON

MADISON, WISCONSIN

Drawing Title
SITE PLAN

Project No.
920260

	Drawing No.
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Drawn By
Mr

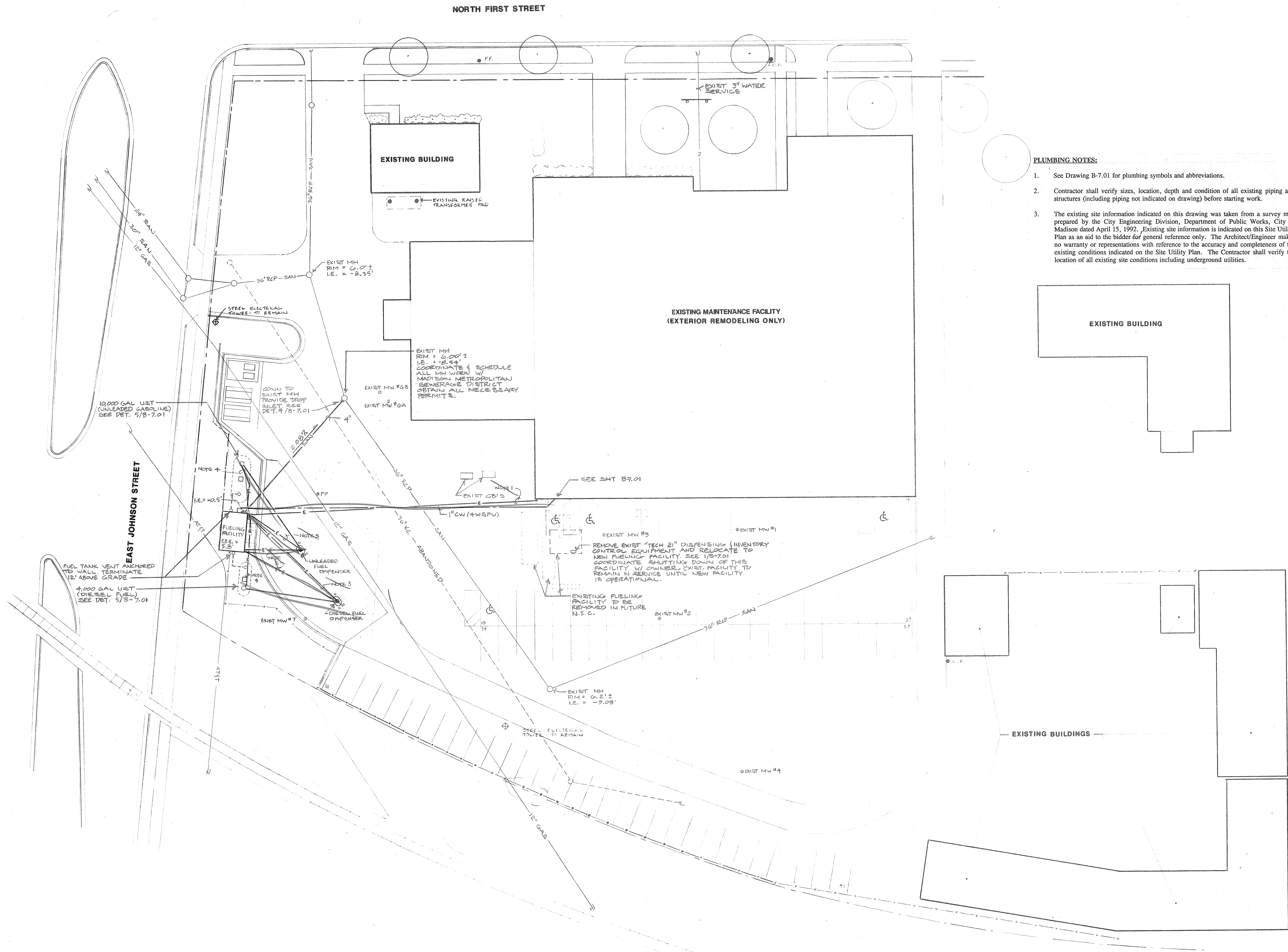
B-2.02

PLUMBING NOTES:

- See Drawing B-7.01 for plumbing symbols and abbreviations.
- Contractor shall verify sizes, location, depth and condition of all existing piping and structures (including piping not indicated on drawing) before starting work.
- The existing site information indicated on this drawing was taken from a survey map prepared by the City Engineering Division, Department of Public Works, City of Madison dated April 15, 1992. Existing site information is indicated on this Site Utility Plan as an aid to the bidder for general reference only. The Architect/Engineer makes no warranty or representations with reference to the accuracy and completeness of the existing conditions indicated on the Site Utility Plan. The Contractor shall verify the location of all existing site conditions including underground utilities.

ELECTRICAL NOTES:

- PROVIDE THREE 1" PVC CONDUITS, MIN. 3'0" BELOW GRADE (ONE TELEPHONE, ONE POWER, AND ONE SPARE). PROVIDE 3/4" IN POWER CONDUIT TO FEED NEW PANEL IN FUELING FACILITY. SEE SHEET B-9.01.
- PROVIDE TWO 1" CONDUITS FROM EACH FUEL DISPENSER TO CONTROLLER. SEE SHEET B-9.01.
- PROVIDE 120V TO FUEL DISPENSERS FOR DISPENSER LIGHTS. CONDUIT SHALL BE 3/4" RIGID STEEL.
- EXTEND 3/4" IN 3/4" RIGID STEEL CONDUIT FROM 20/2 BREAKER TO SUBMERSIBLE FUEL PUMP (DIESEL PUMP-1/2 HP, 240V, 1Ø; UNLEADED PUMP-3/4 HP, 240V, 1Ø).



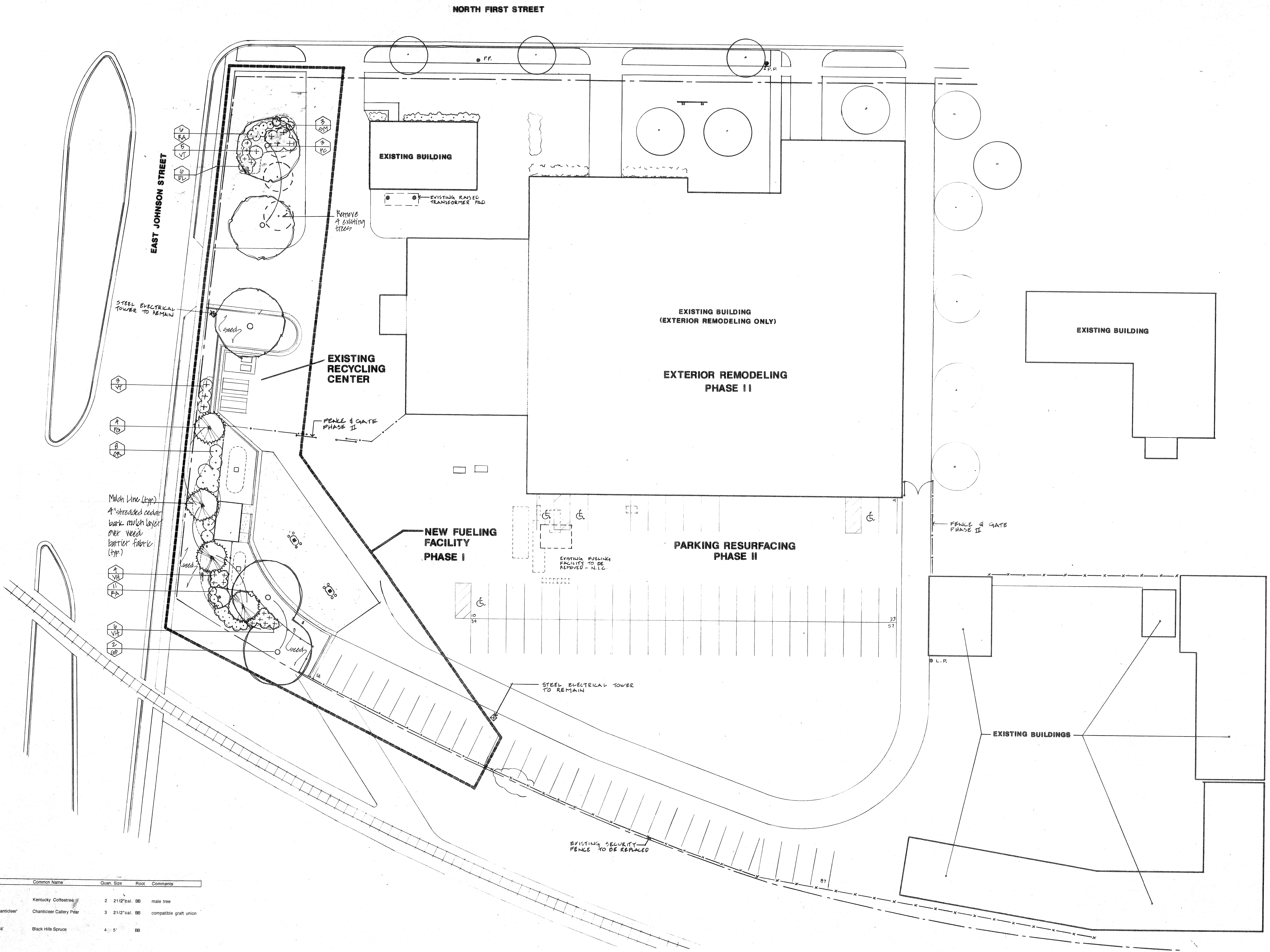
1 SITE UTILITY PLAN
8-2-03 1" = 20'-0"

7-27-76	ISSUED FOR CONSTRUCTION	
Date	Issuance / Revisions	Symbol

ADDITIONS AND REMODELING
FOR THE
CITY OF MADISON
MADISON, WISCONSIN

Drawing Title
SITE UTILITY PLAN

Project No. 9202600	Drawing No. B-2.03
Drawn By AJO	



Key	Botanical Name	Common Name	Quan.	Size	Root	Comments
SHADE TREES						
CD	Gymnocladus dioica	Kentucky Coffeetree	2	2 1/2" cal.	BB	male tree
PC	Pyrus calleryana 'Chanticleer'	Chanticleer Callery Pear	3	2 1/2" cal.	BB	compatible graft union
EVERGREEN						
PG	Picea glauca 'Densata'	Black Hills Spruce	4	5'	BB	
SHRUBS						
OT	Cornus racemosa	Gray Dogwood	8	24"	cont.	
DL	Diervilla sessilifolia	Southernbush Honeysuckle	6	18"	cont.	
RA	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	17	2 gal.	cont.	
SM	Syringa meyeri	Dwarf Korean Lilac	3	18"	cont.	
VP	Viburnum prunifolium	Blackhaw Viburnum	1	3'	BB	
VH	Viburnum trilobum 'Hahn'	Hahn Cranberrybush Viburnum	10	15"	cont.	
VT	Viburnum trilobum	Cranberrybush Viburnum	8	36"	cont.	

LANDSCAPE PLAN

7-22-92 ISSUED FOR CONSTRUCTION

Date	Issuance / Revisions	Symbol
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ADDITIONS AND REMODELING
FOR THE

CITY OF MADISON

MADISON, WISCONSIN

Drawing Title

SITE PLAN

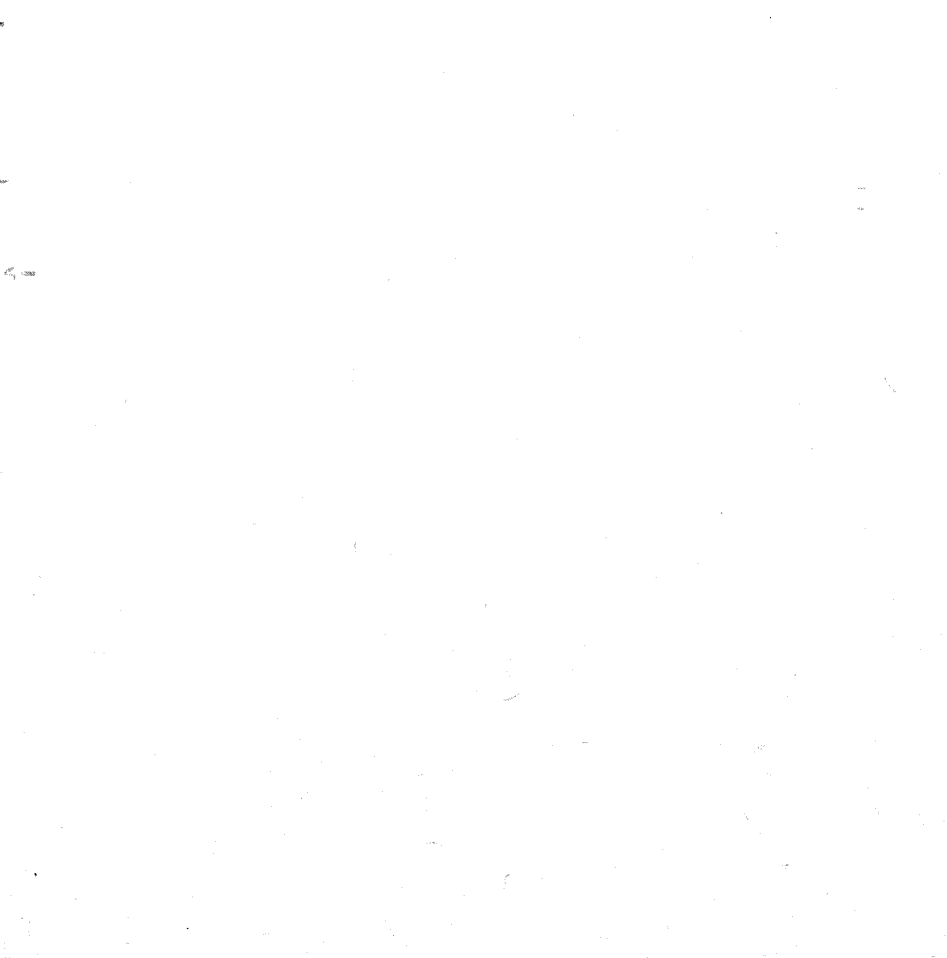
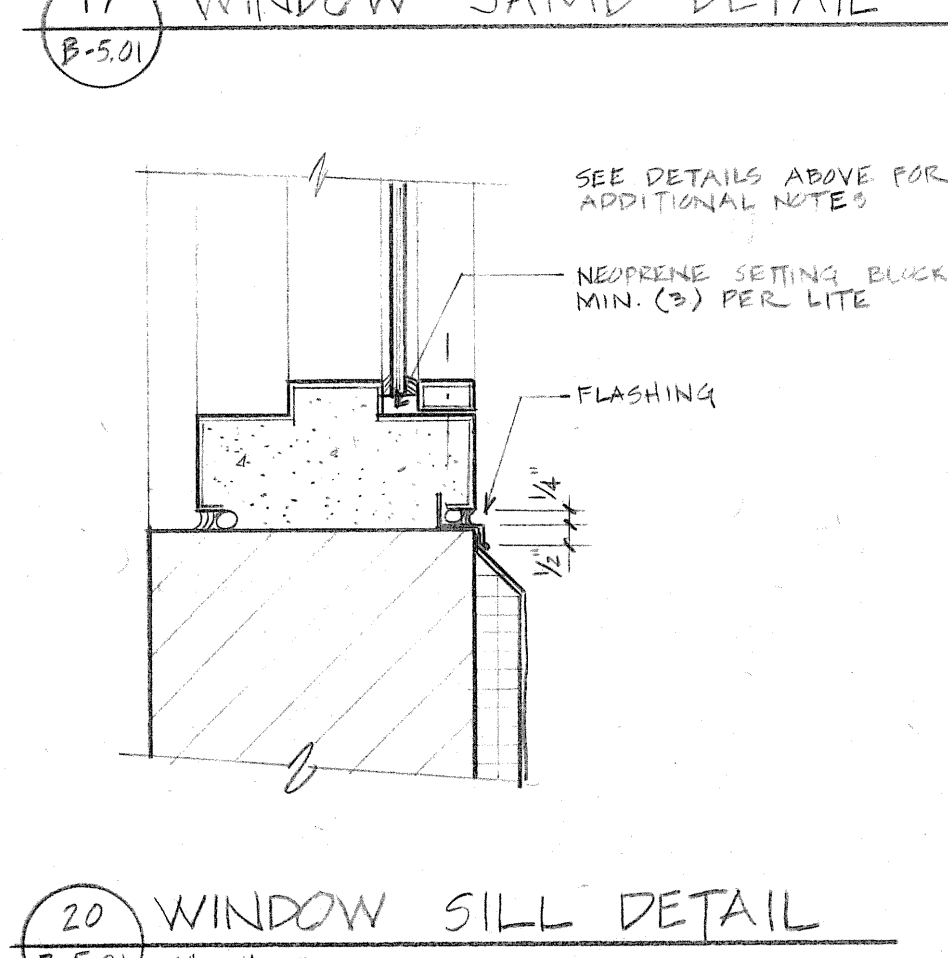
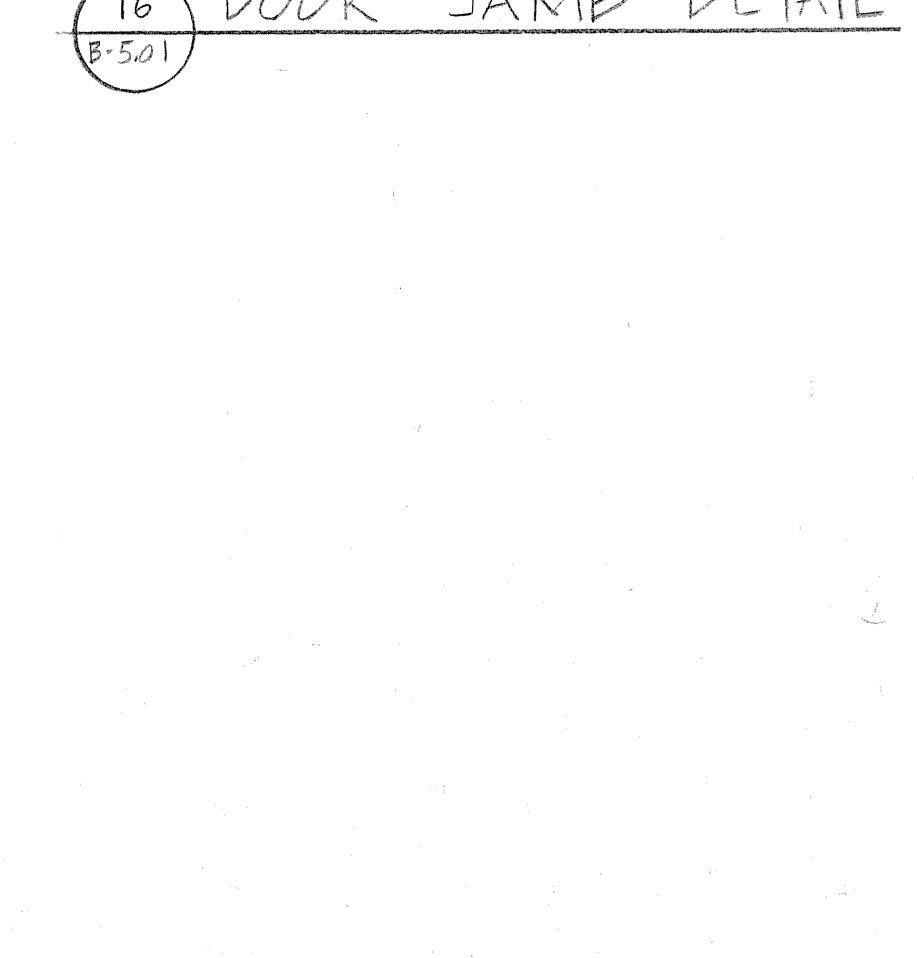
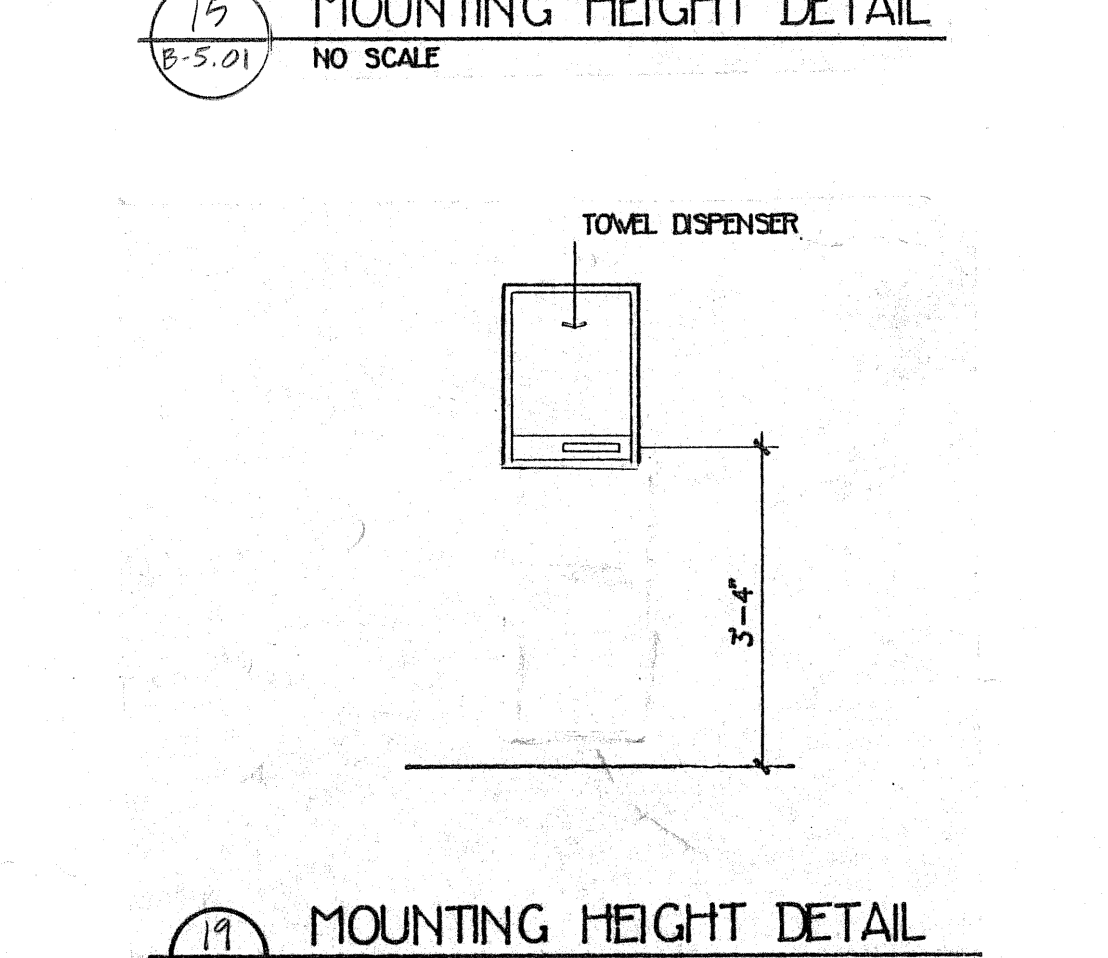
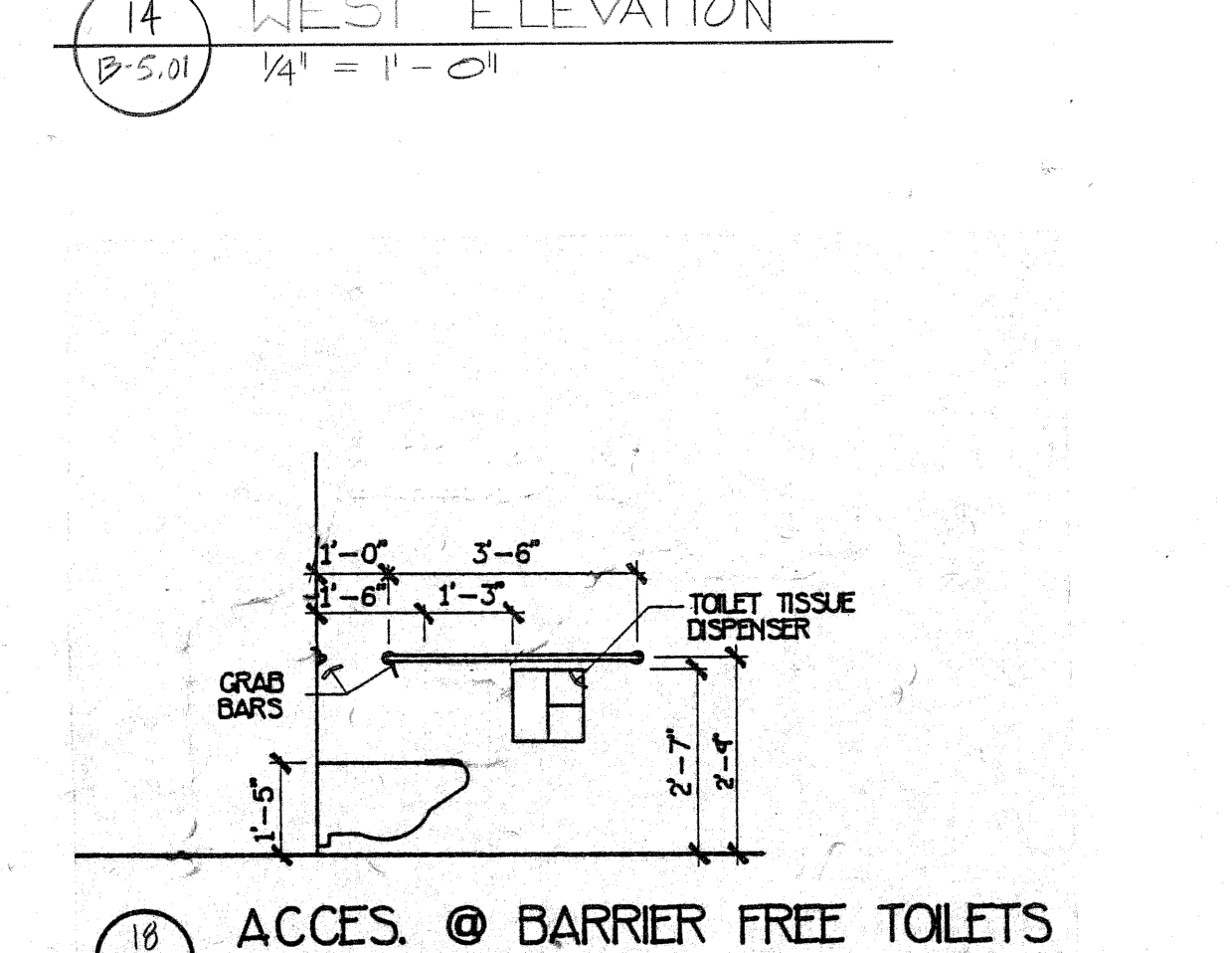
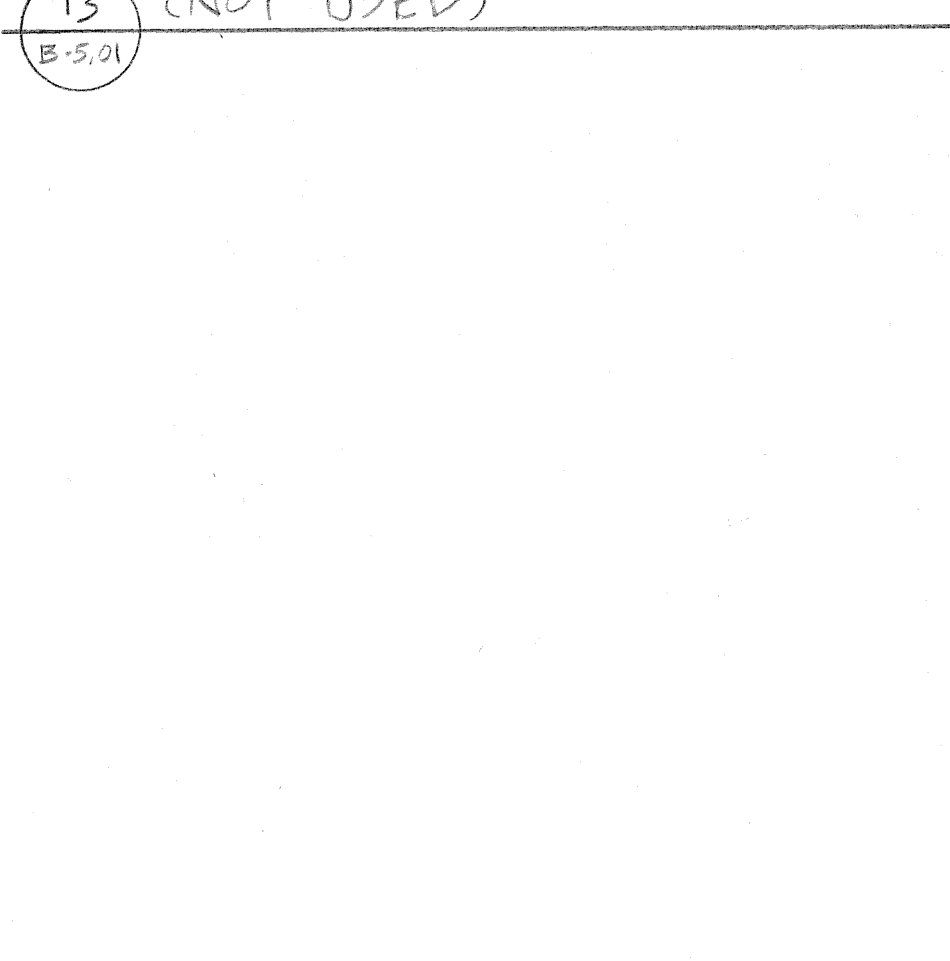
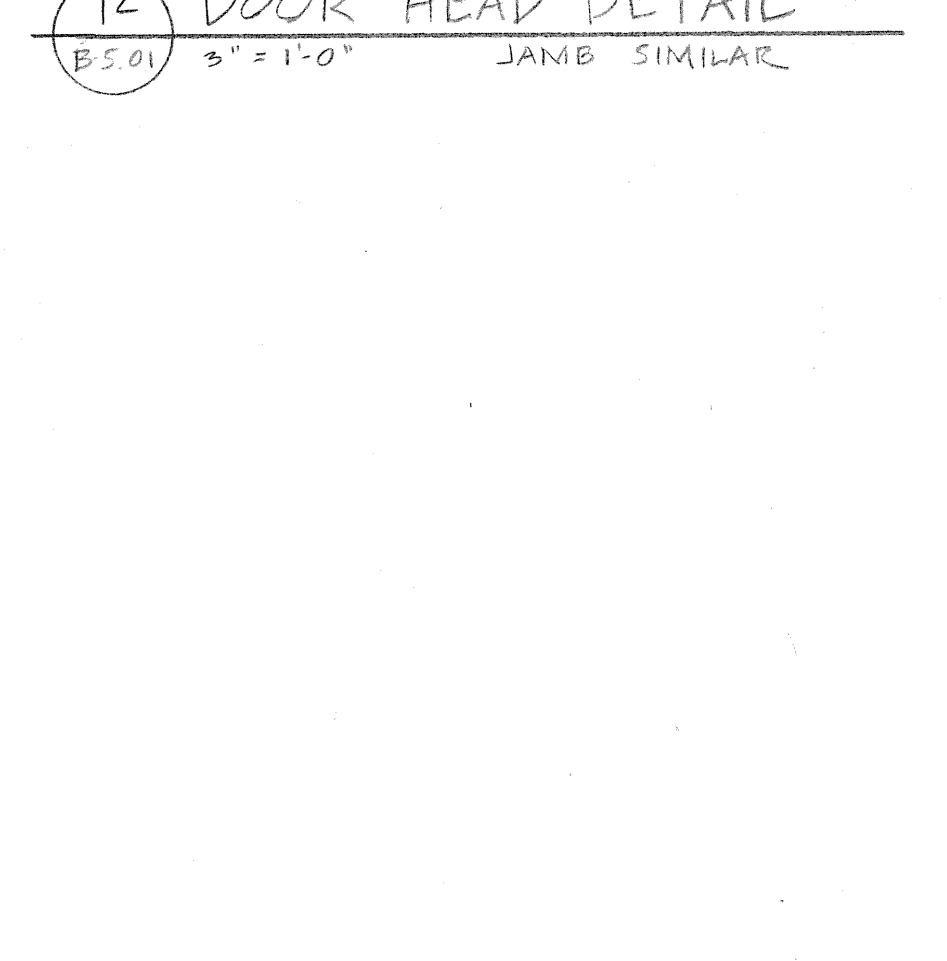
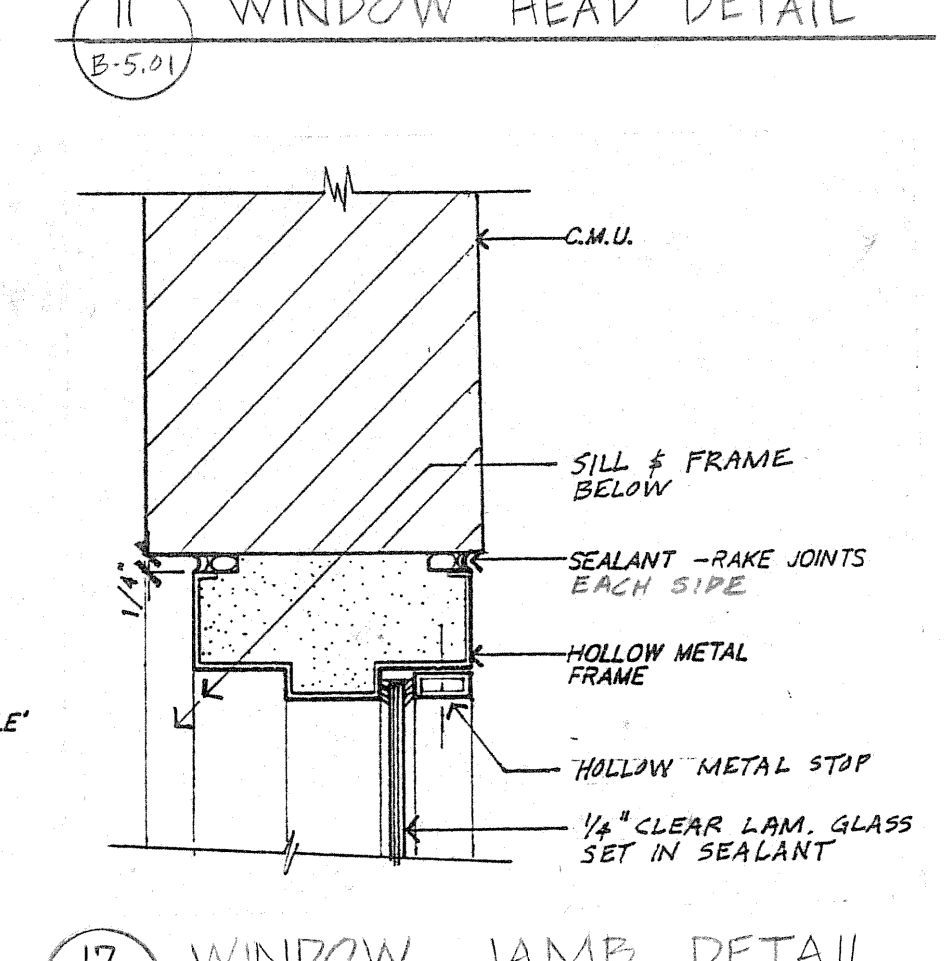
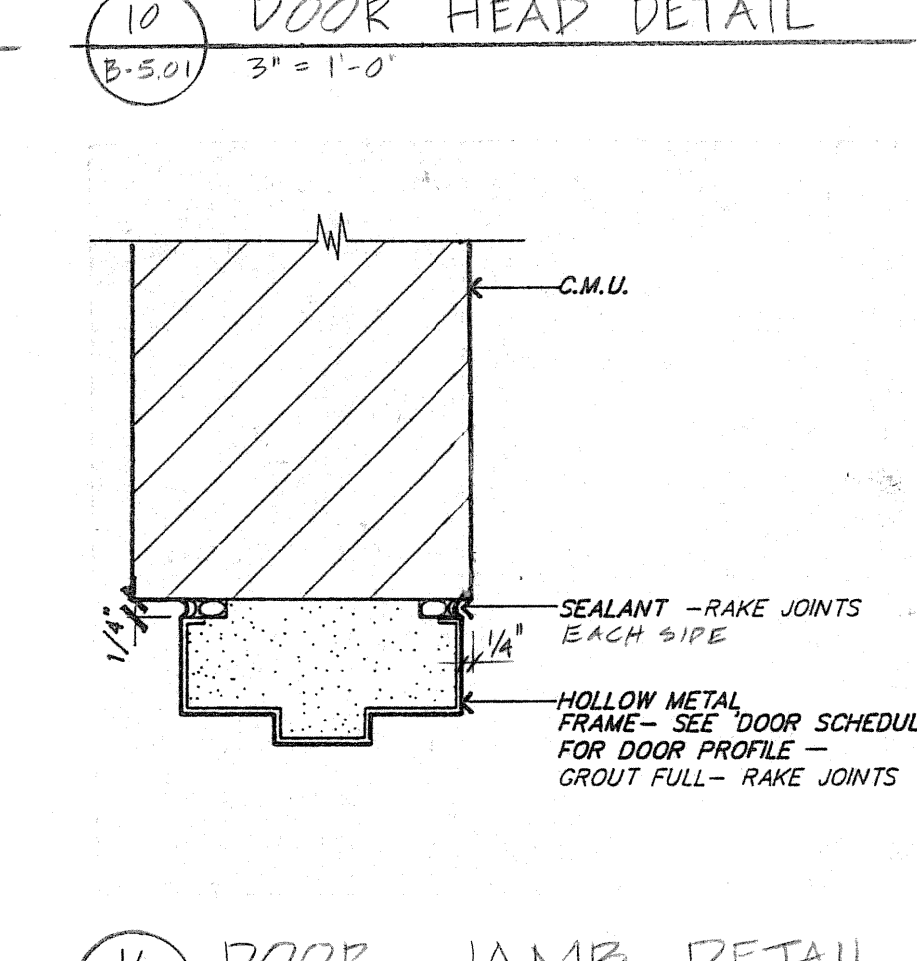
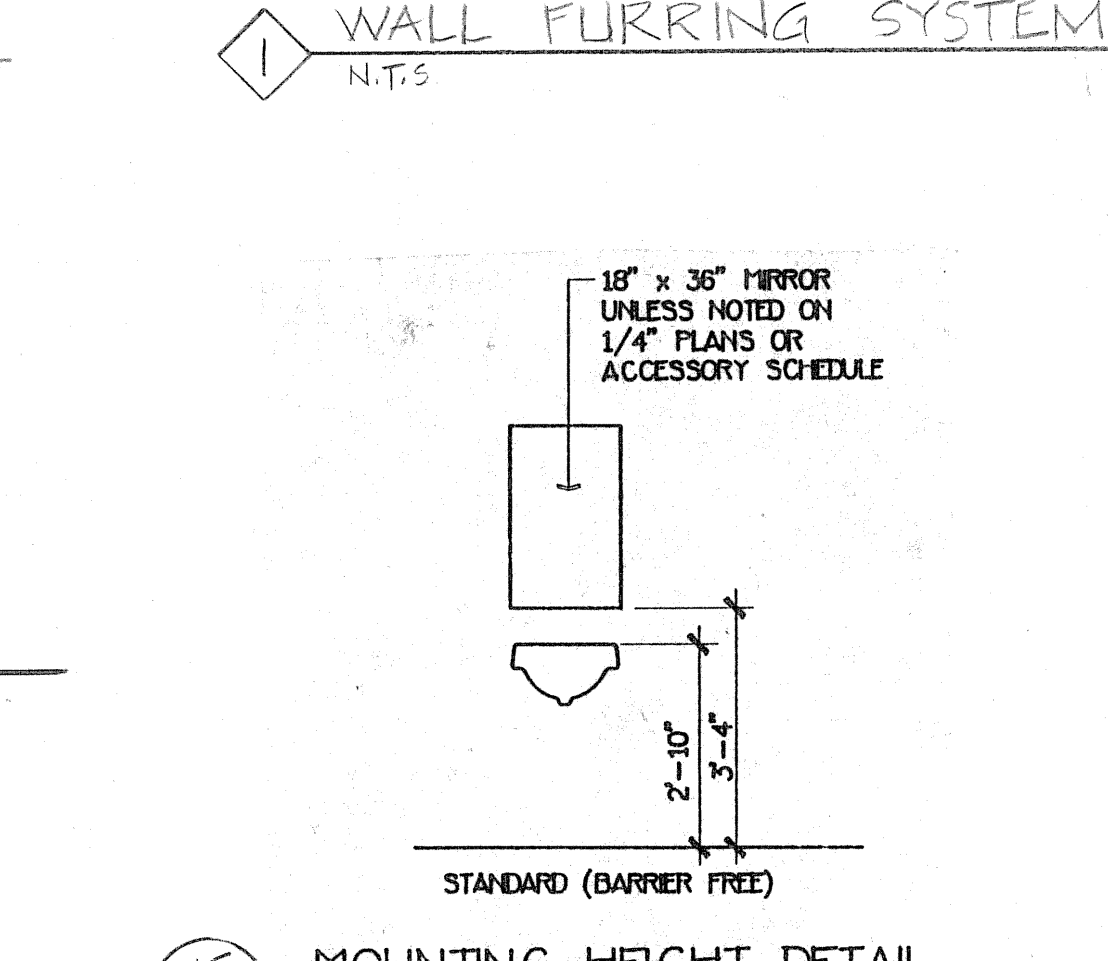
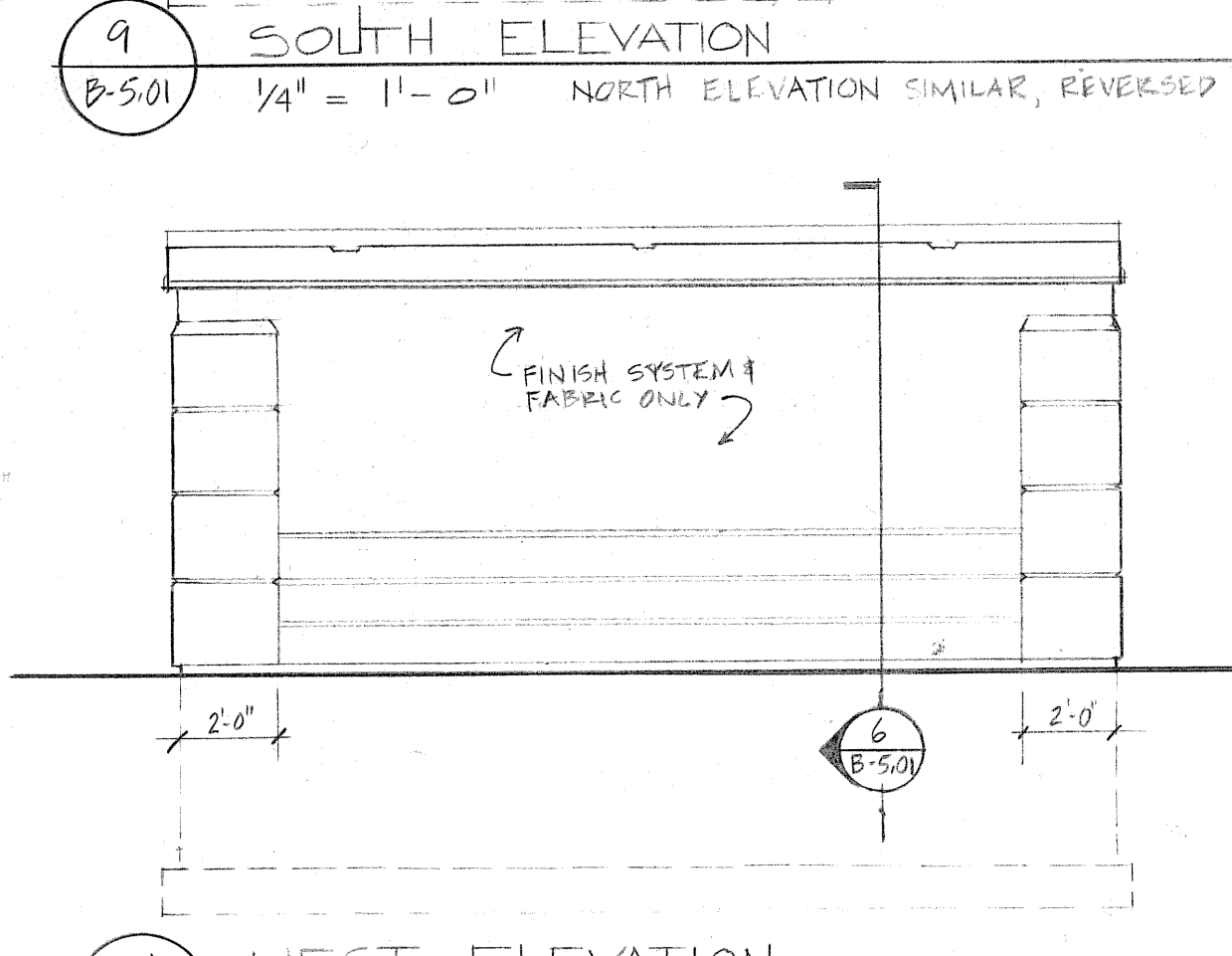
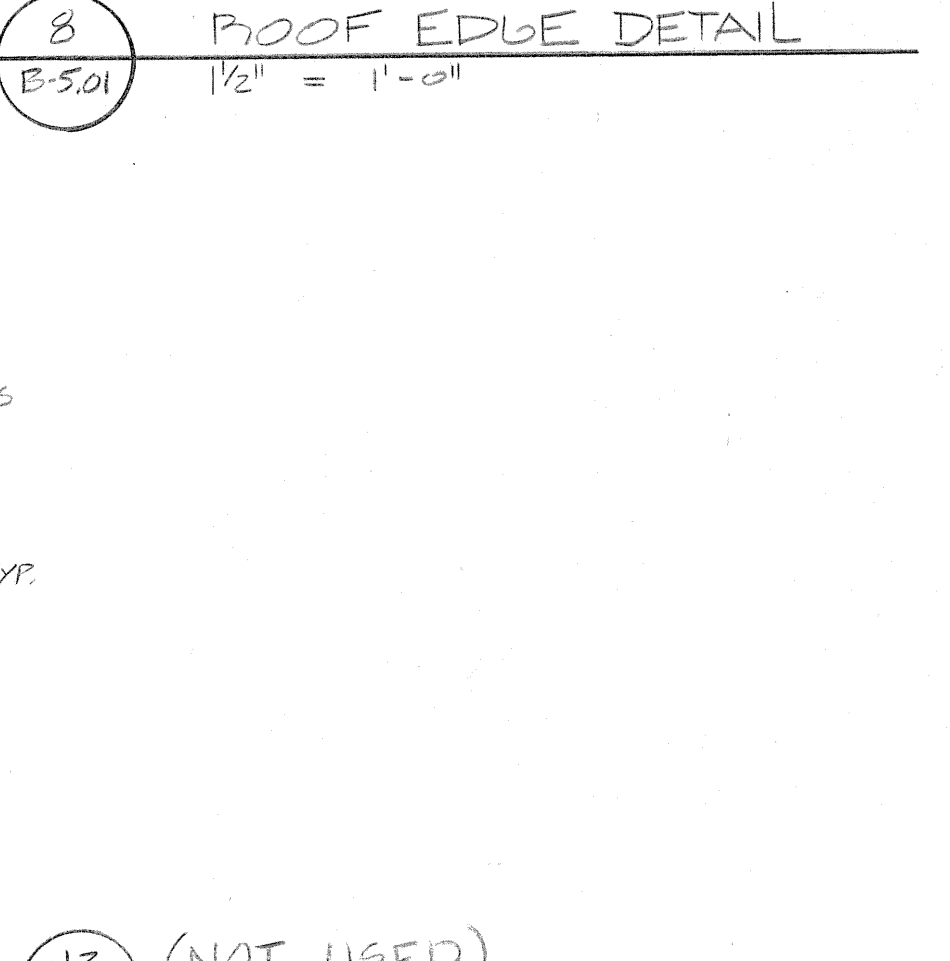
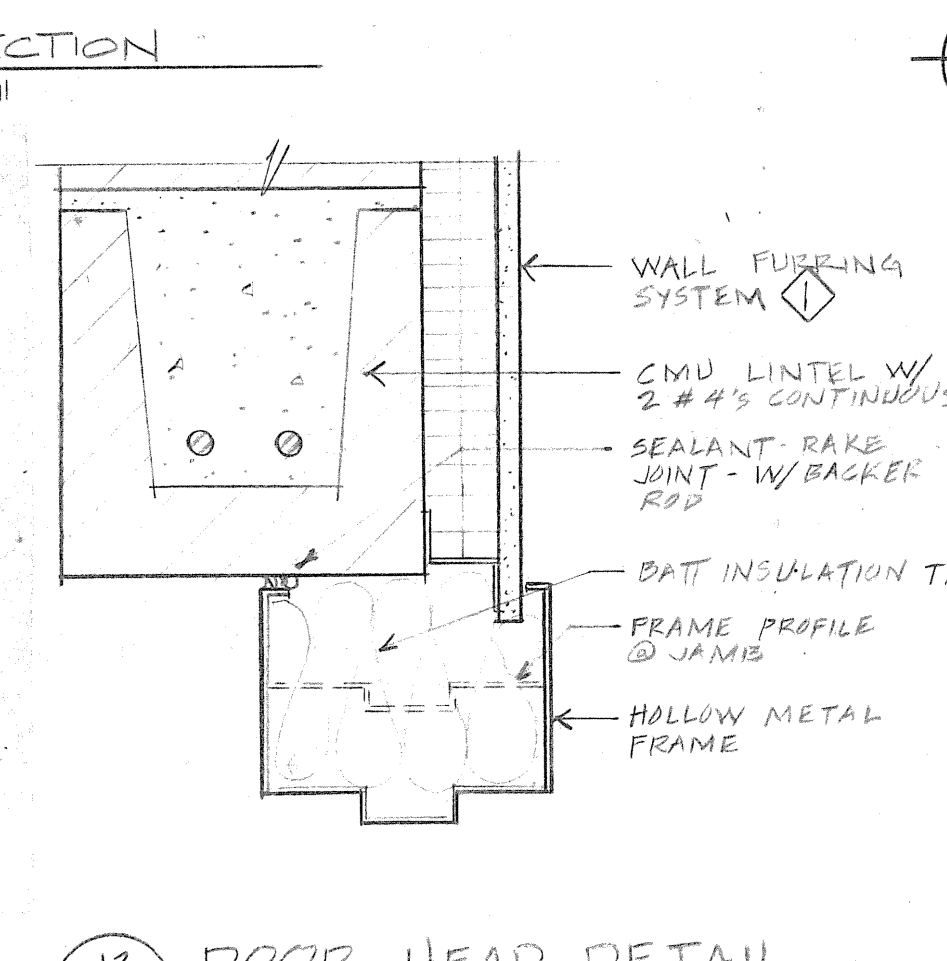
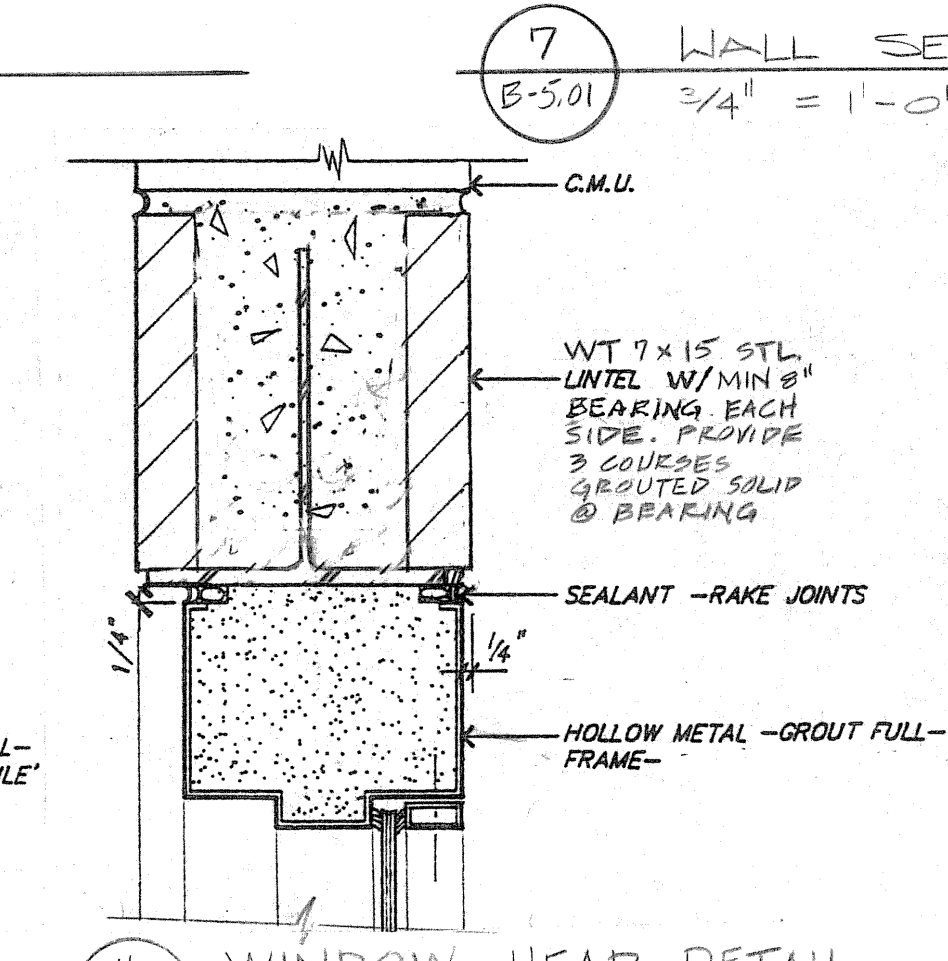
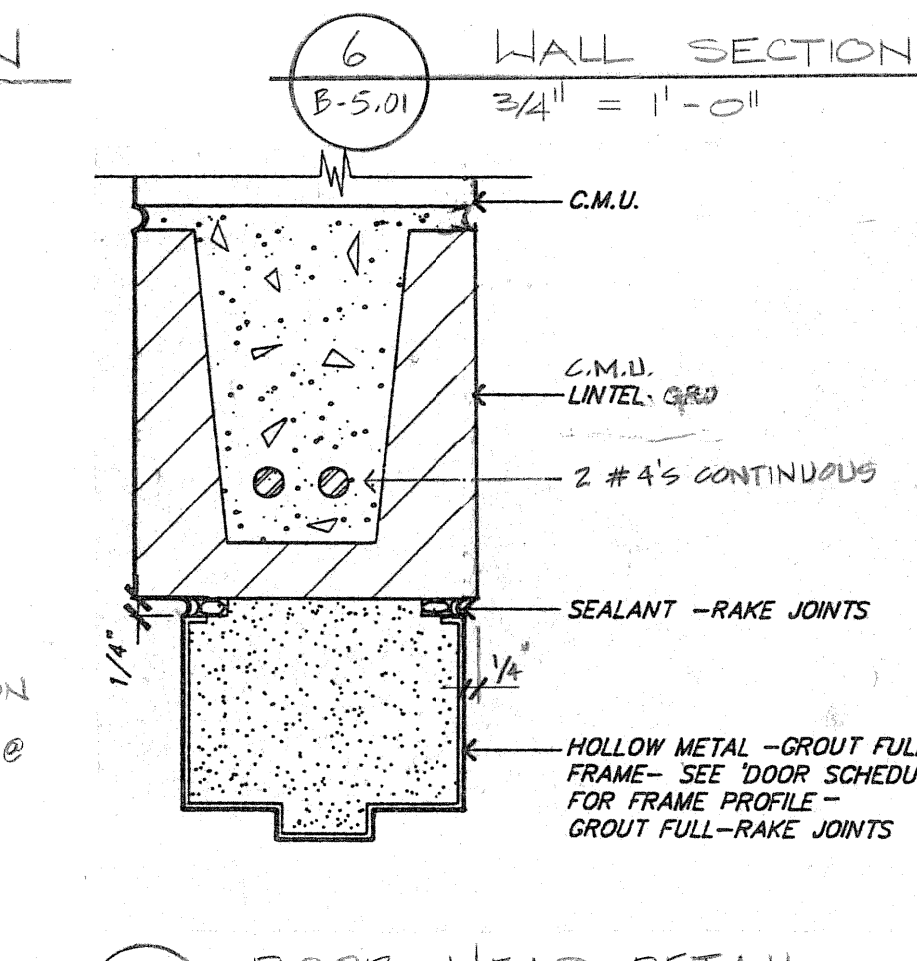
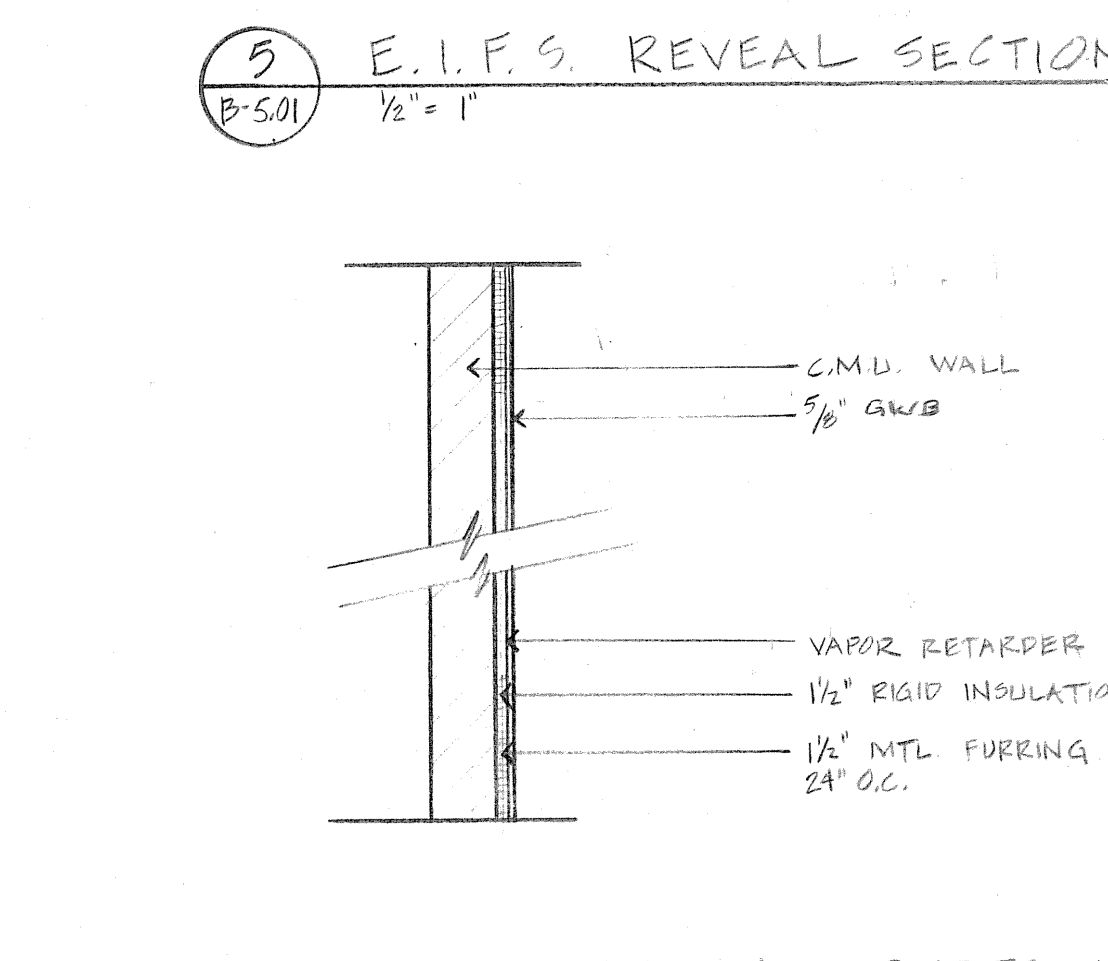
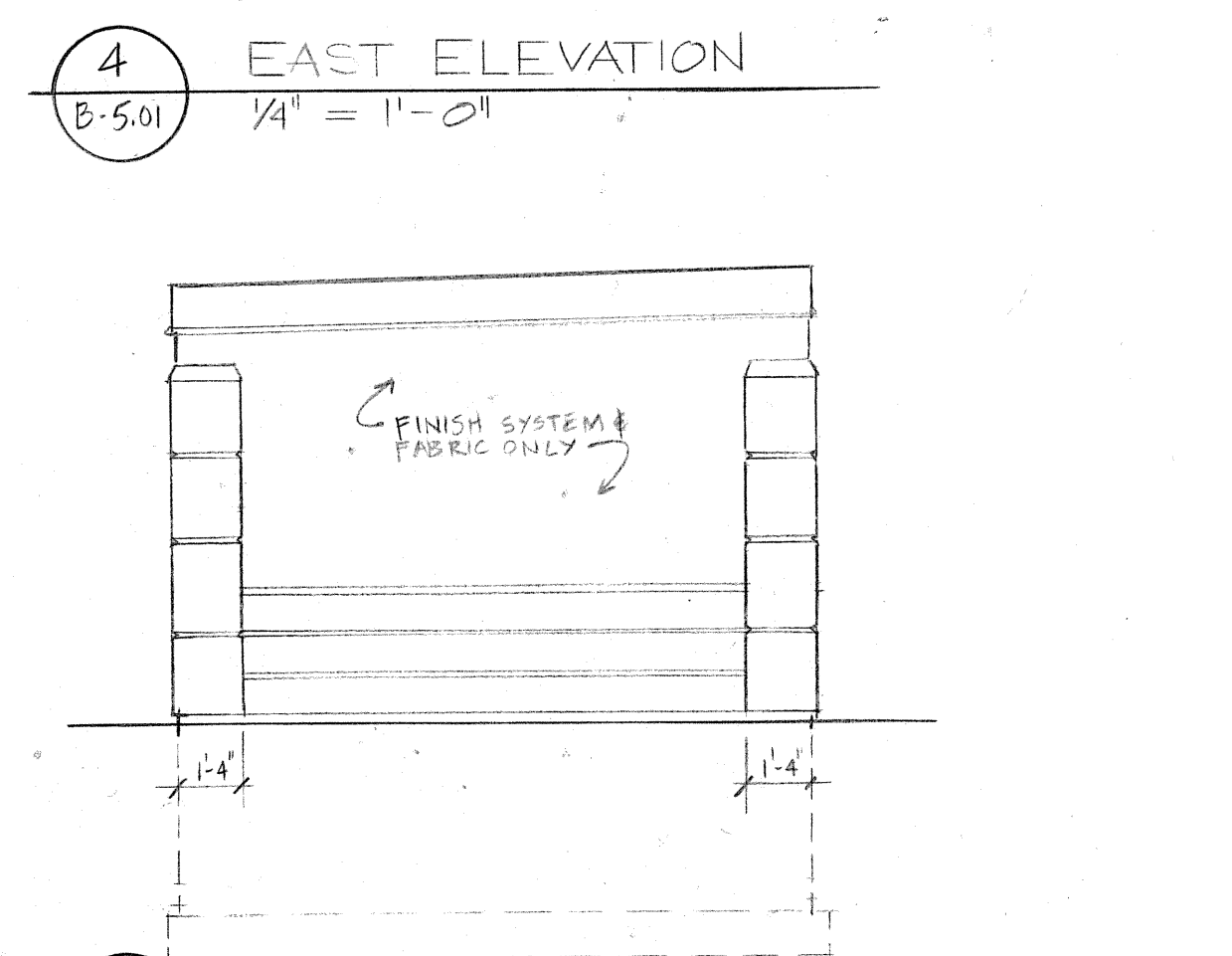
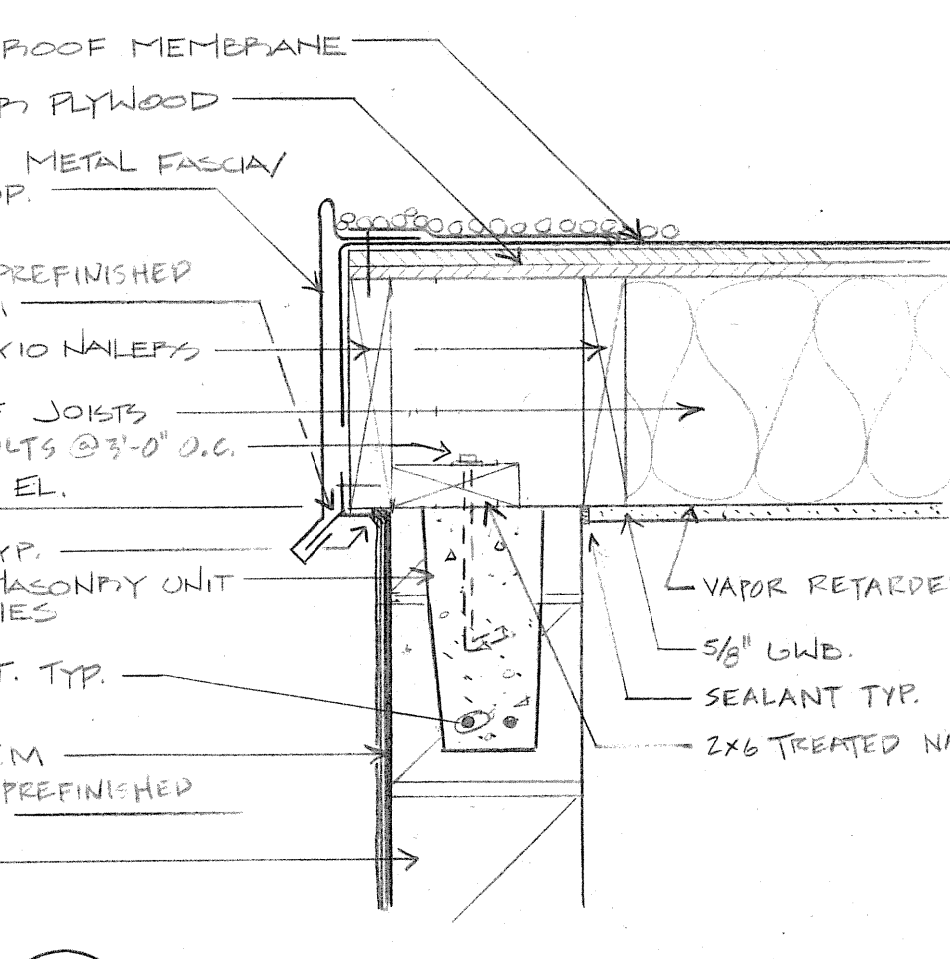
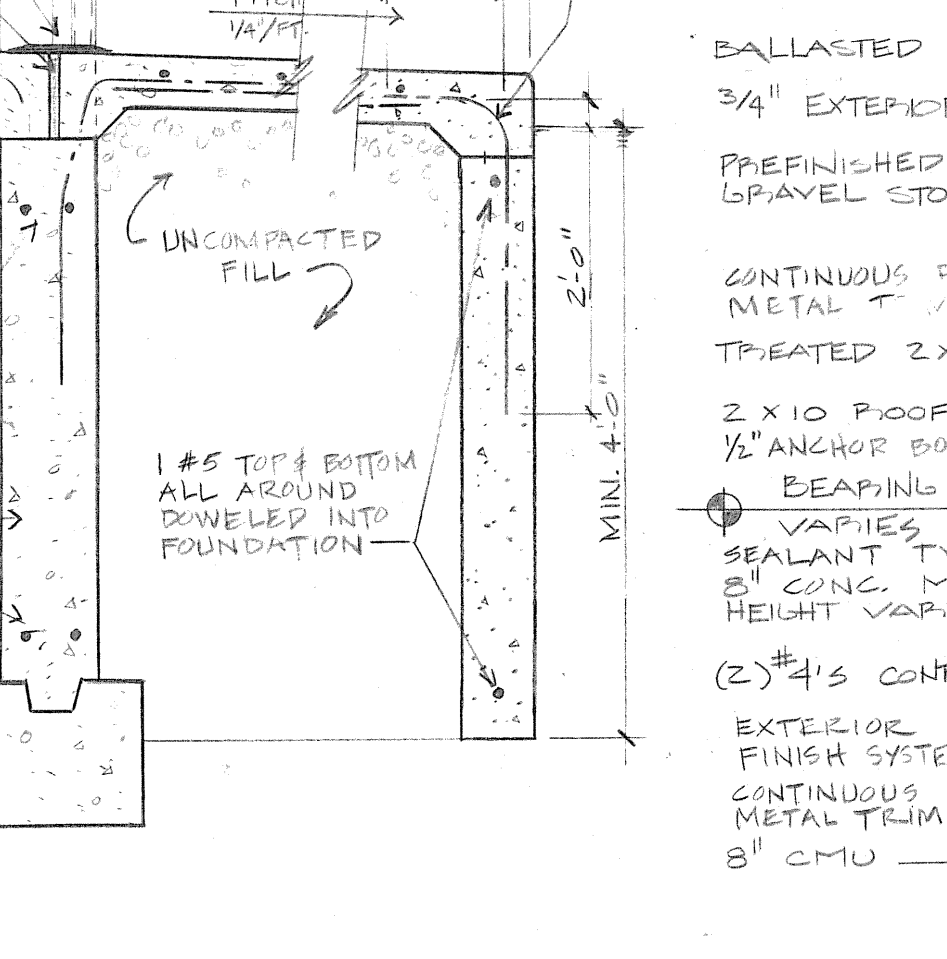
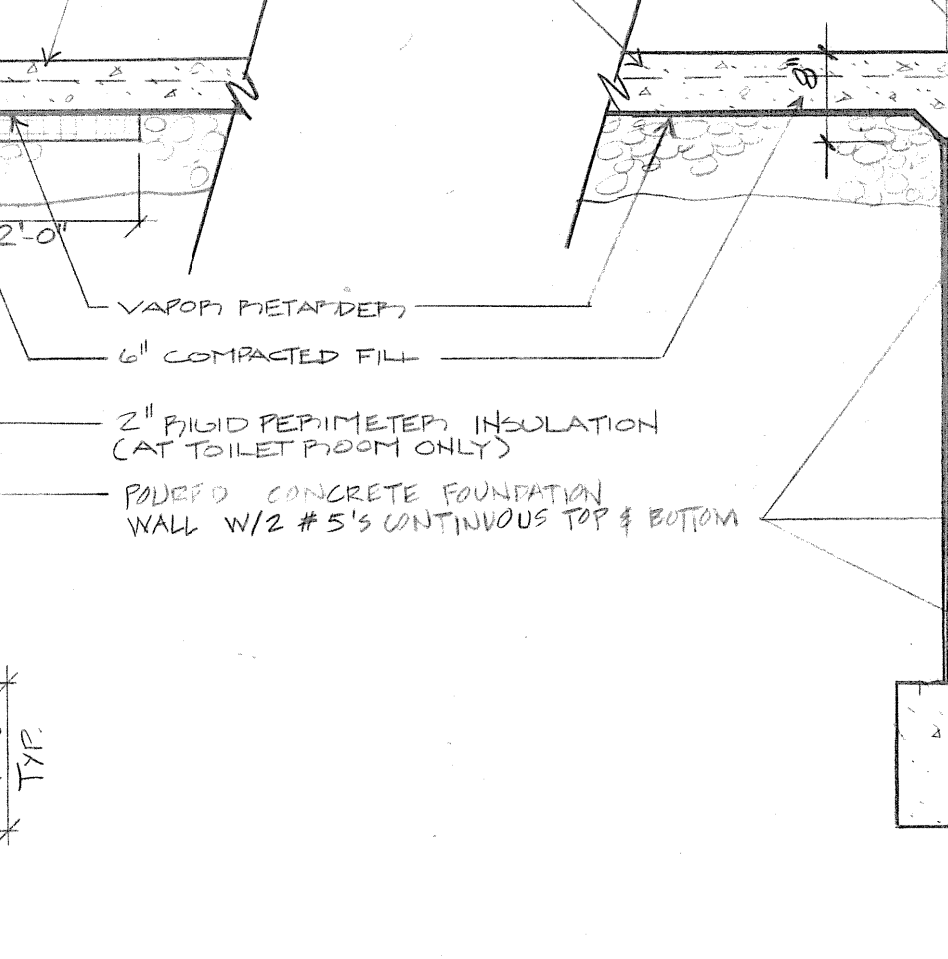
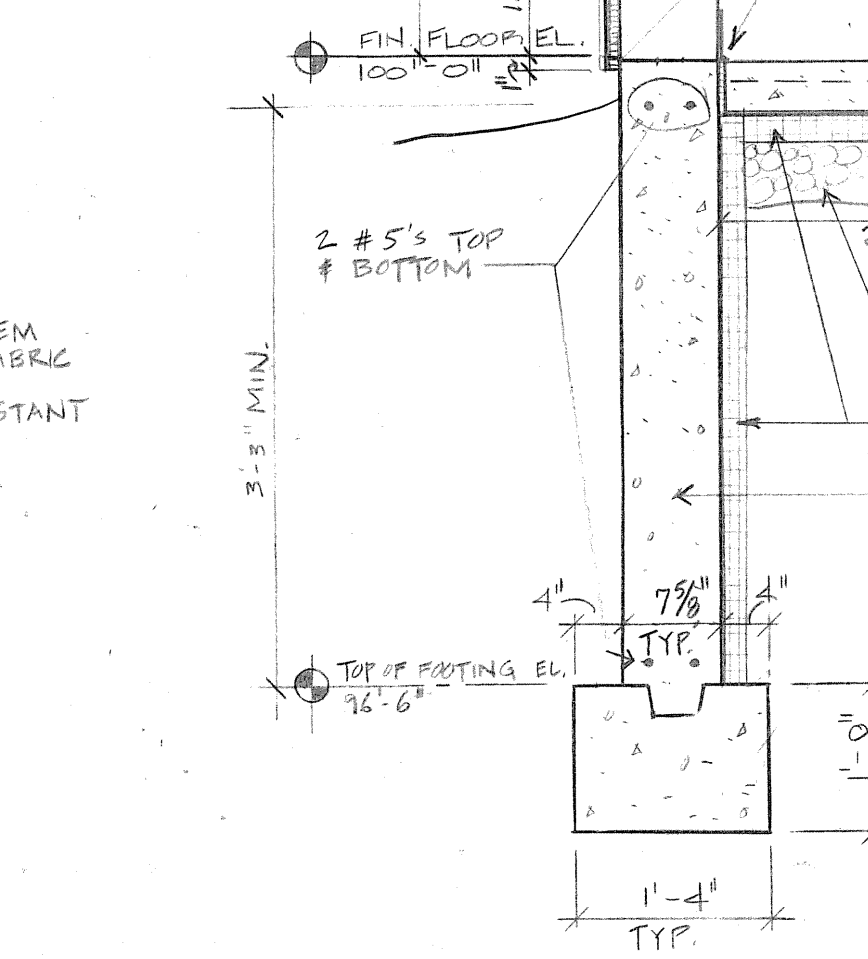
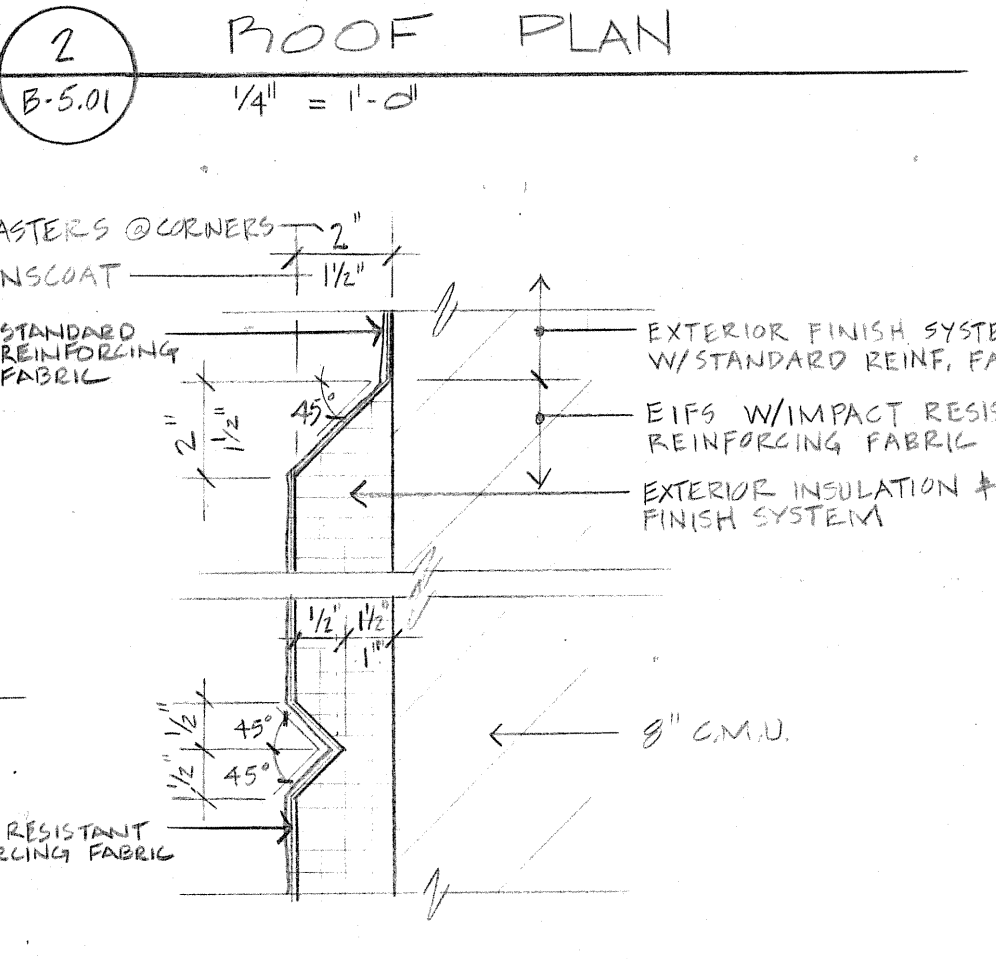
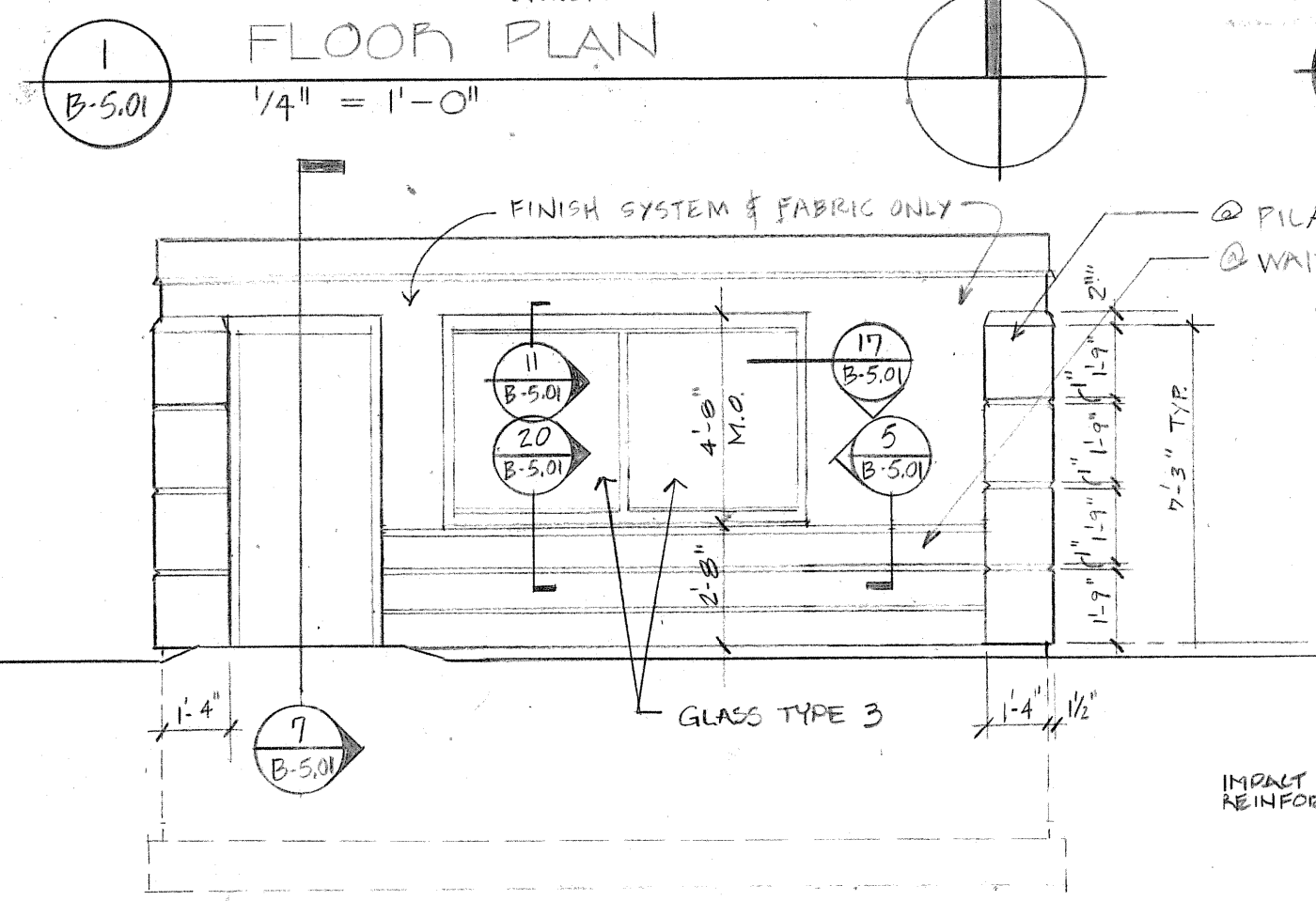
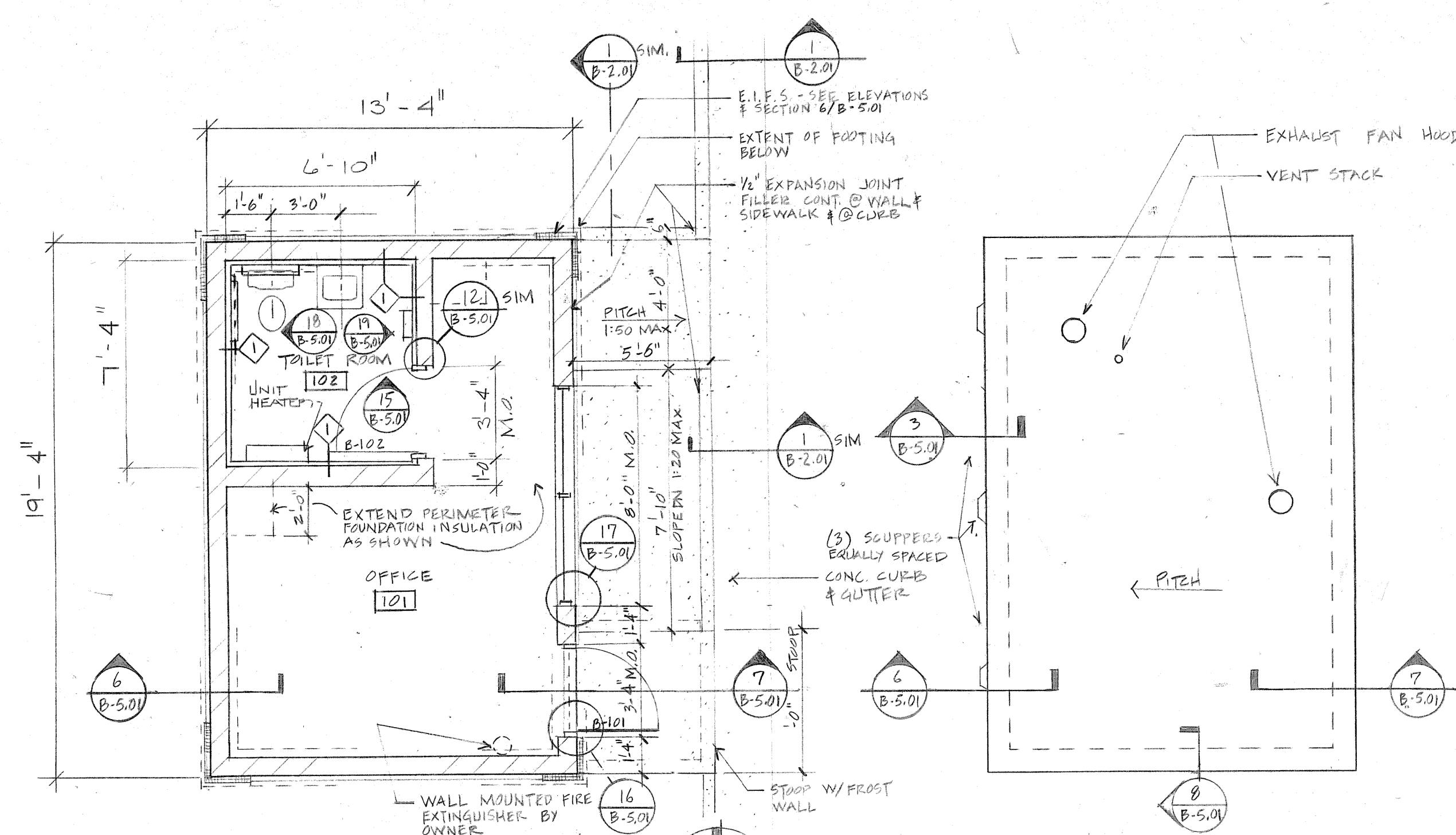
Project No.

1202600

Drawn By

Drawing No.

B-2.04



7-27-92 ISSUED FOR CONSTRUCTION

Date Issuance / Revisions Symbol

**ADDITIONS AND REMODELING
FOR THE**

CITY OF MADISON

MADISON, WISCONSIN

Drawing Title

FUELING FACILITY

PLANS, SECTIONS, DETAILS

Project No. 9202L-00

Drawn By

B-5.01

City Engineering Div. Dept. Of Public Works



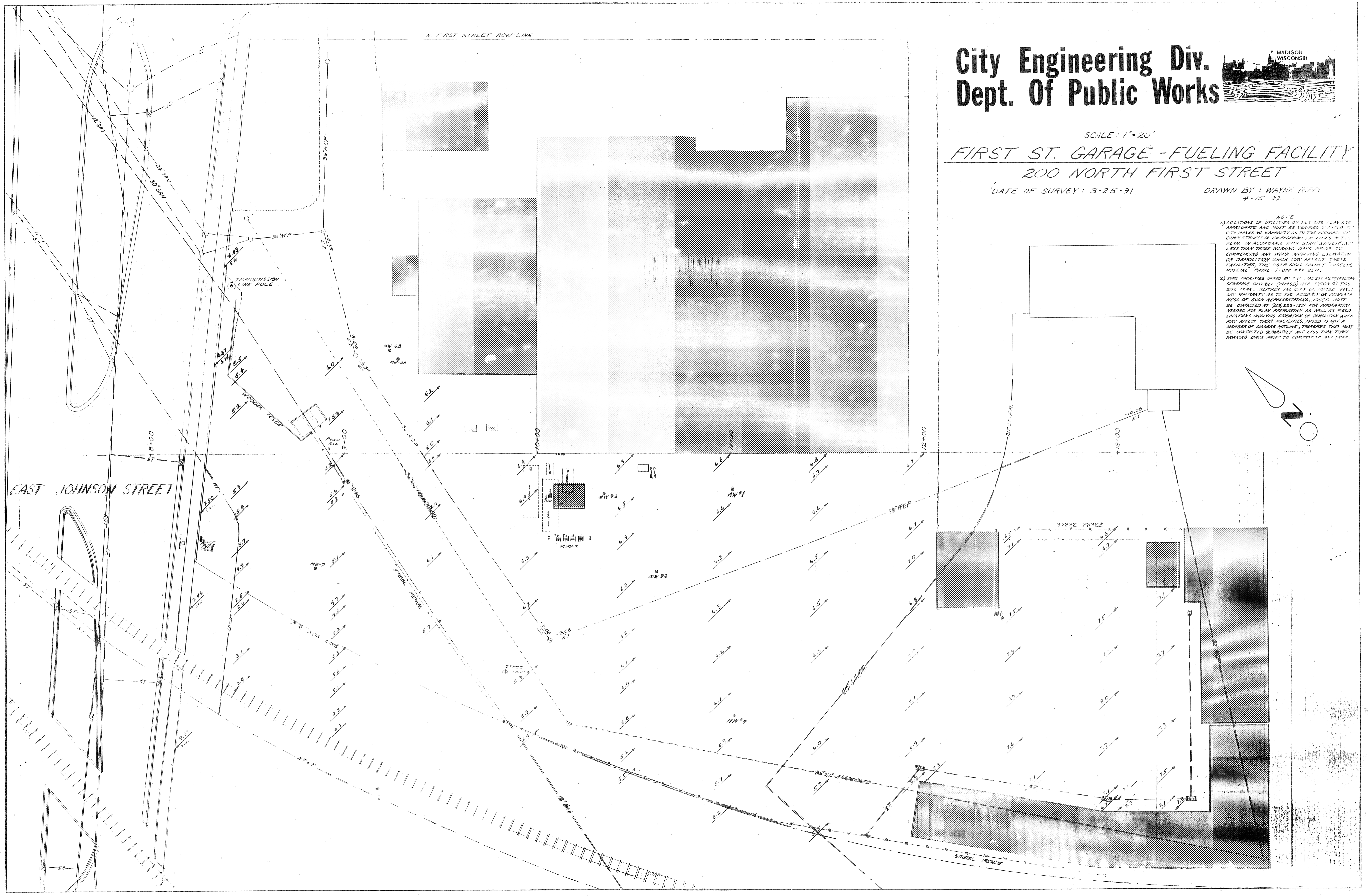
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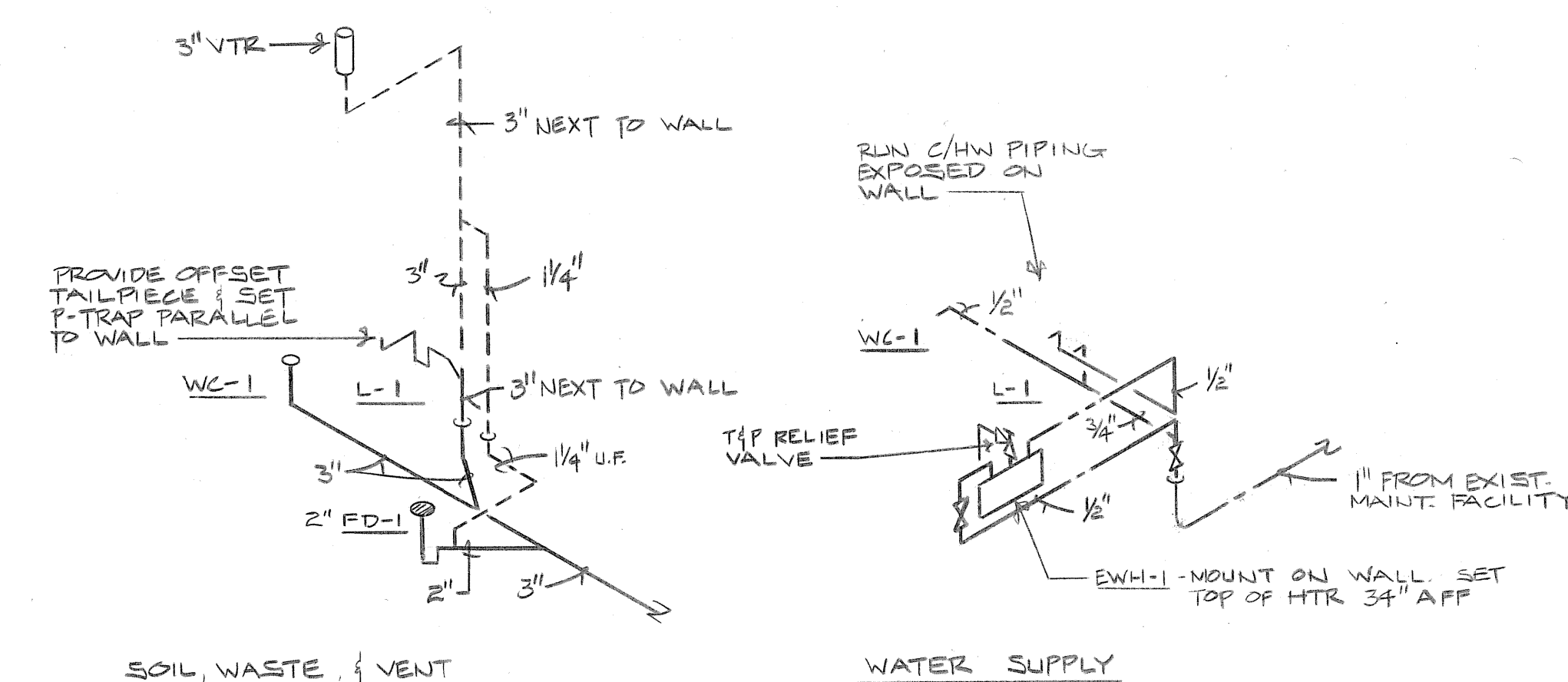
FIRST ST. GARAGE - FUELING FACILITY 200 NORTH FIRST STREET

DATE OF SURVEY: 3-25-91

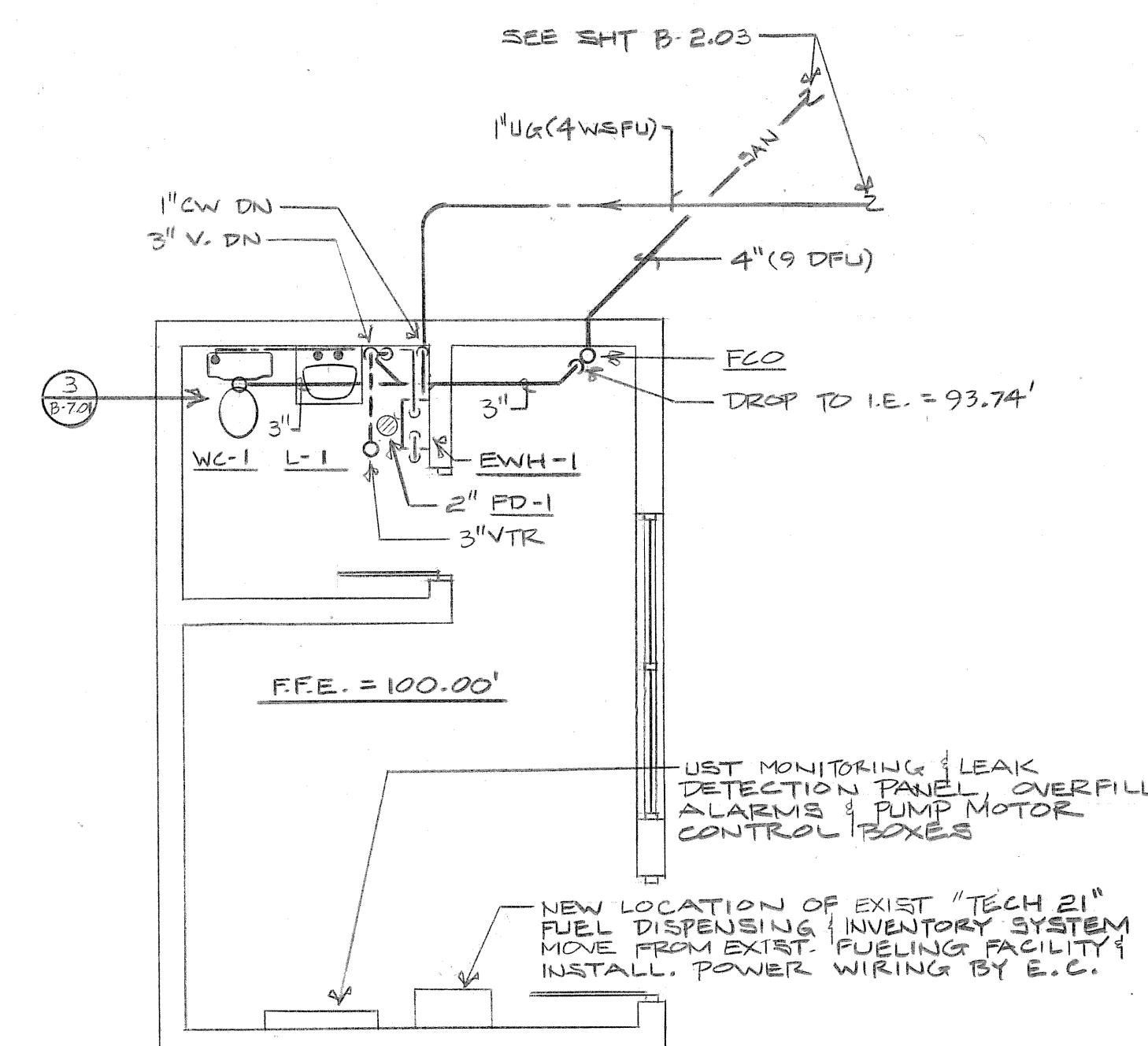
DRAWN BY: WAYNE RUTZ
4-15-92

NOTE:
1) LOCATIONS OF UTILITIES ON THIS SITE PLAN ARE APPROXIMATE AND MUST BE VERIFIED IN FIELD. THE CITY MAKES NO WARRANTY AS TO THE ACCURACY OR COMPLETENESS OF UNDISCOVERED UTILITIES IN THIS PLAN. IN ACCORDANCE WITH STATE STATUTE, NOT LESS THAN THREE WORKING DAYS PRIOR TO COMMENCING ANY WORK INVOLVING EXCAVATION OR DEMOLITION WHICH MAY AFFECT THESE FACILITIES THE USER SHALL CONTACT DIGGER'S HOTLINE PHONE 1-800-442-8311.
2) SOME FACILITIES OWNED BY THE MADISON METROPOLITAN SEWERAGE DISTRICT (MMSD) ARE LOCATED ON THIS SITE PLAN. NOTWITHSTANDING THE CITY'S BEST EFFORTS, ANY WARRANTY AS TO THE ACCURACY OR COMPLETENESS OF SUCH REPRESENTATIONS, ALSO, MUST BE CONTACTED AT (608) 222-1801 FOR INFORMATION NEEDED FOR PLAN PREPARATION AS WELL AS FIELD LOCATIONS INVOLVING EXCAVATION OR DEMOLITION WHICH MAY AFFECT THEIR FACILITIES. MMSD IS NOT A MEMBER OF DIGGER'S HOTLINE, THEREFORE THEY MUST BE CONTACTED SEPARATELY NOT LESS THAN THREE WORKING DAYS PRIOR TO COMMENCING ANY WORK.

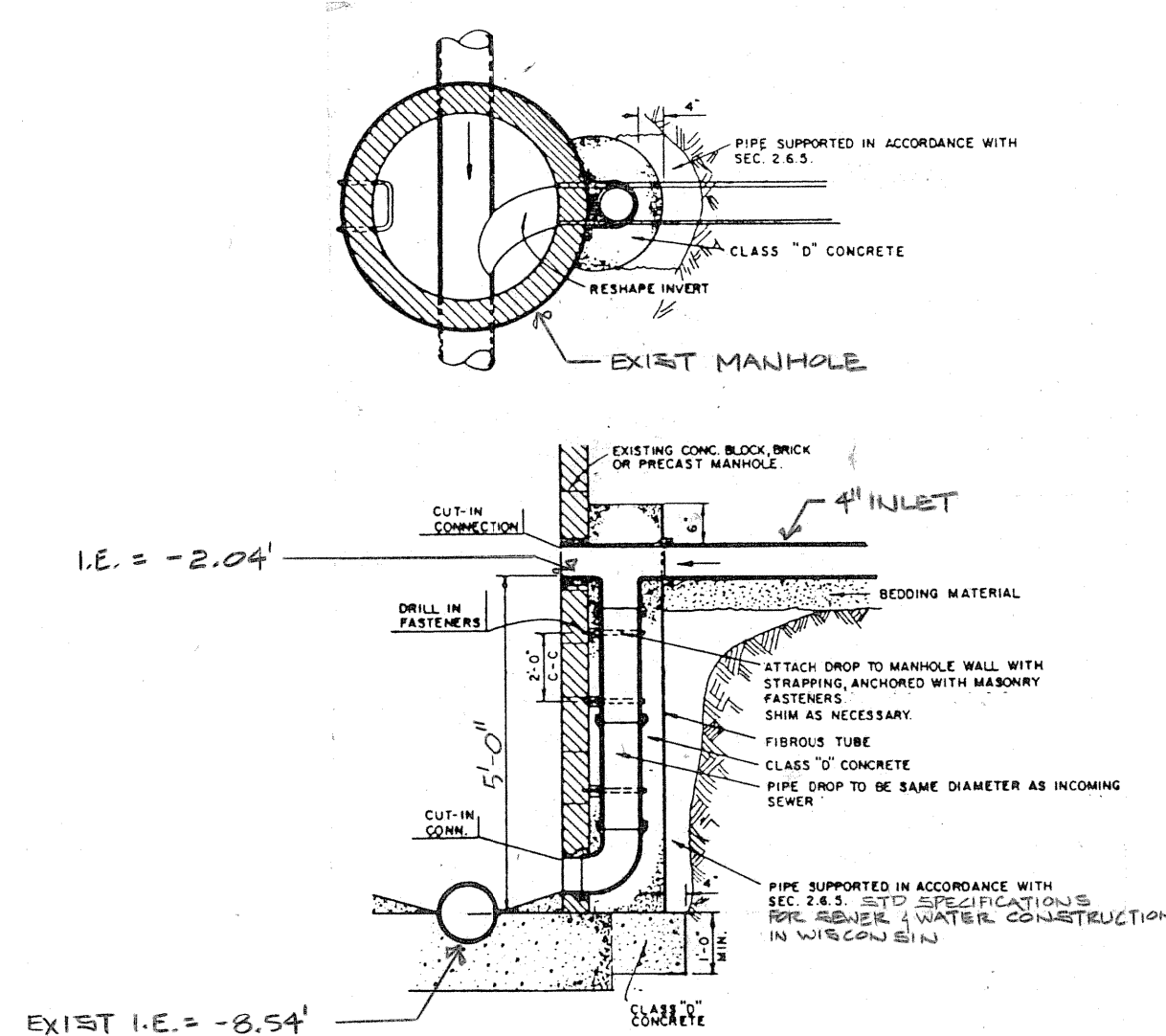


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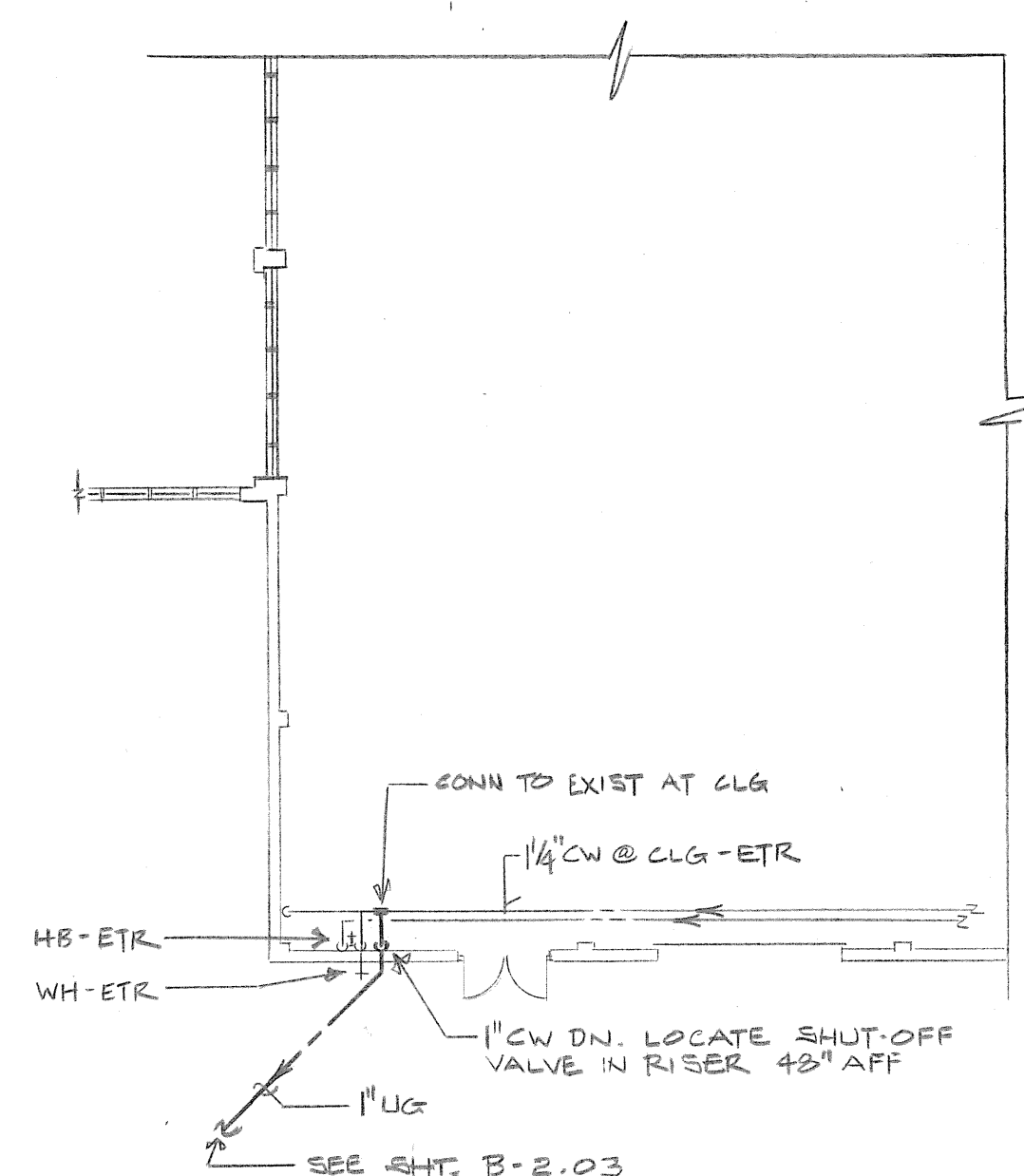
3 RISER DIAGRAMS - FUELING FACILITY
87.01 NTS



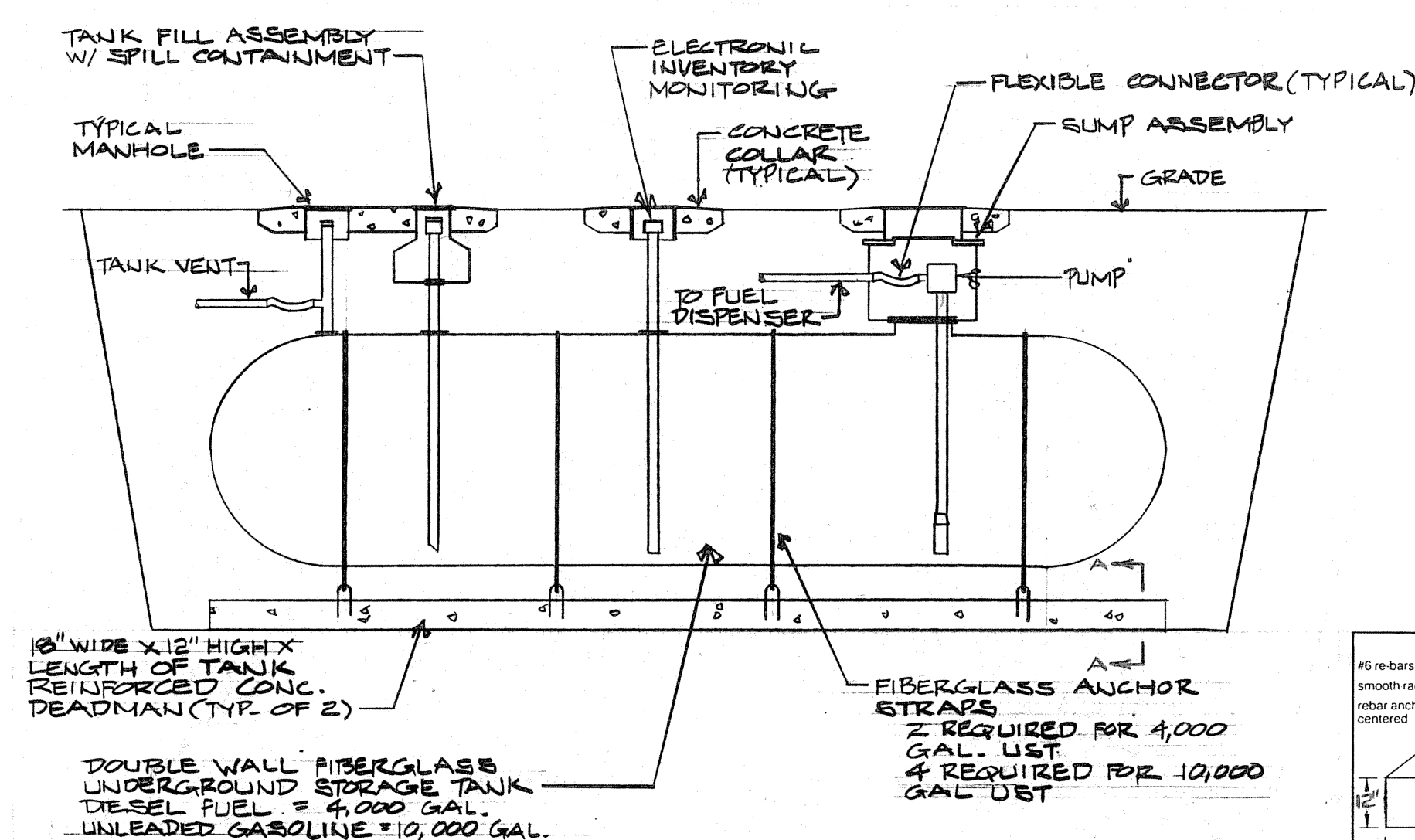
1 FUELING FACILITY FLOOR PLAN - PLUMBING
07.01 1/4" = 1'-0"



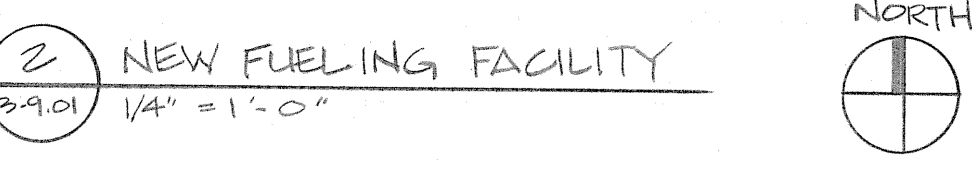
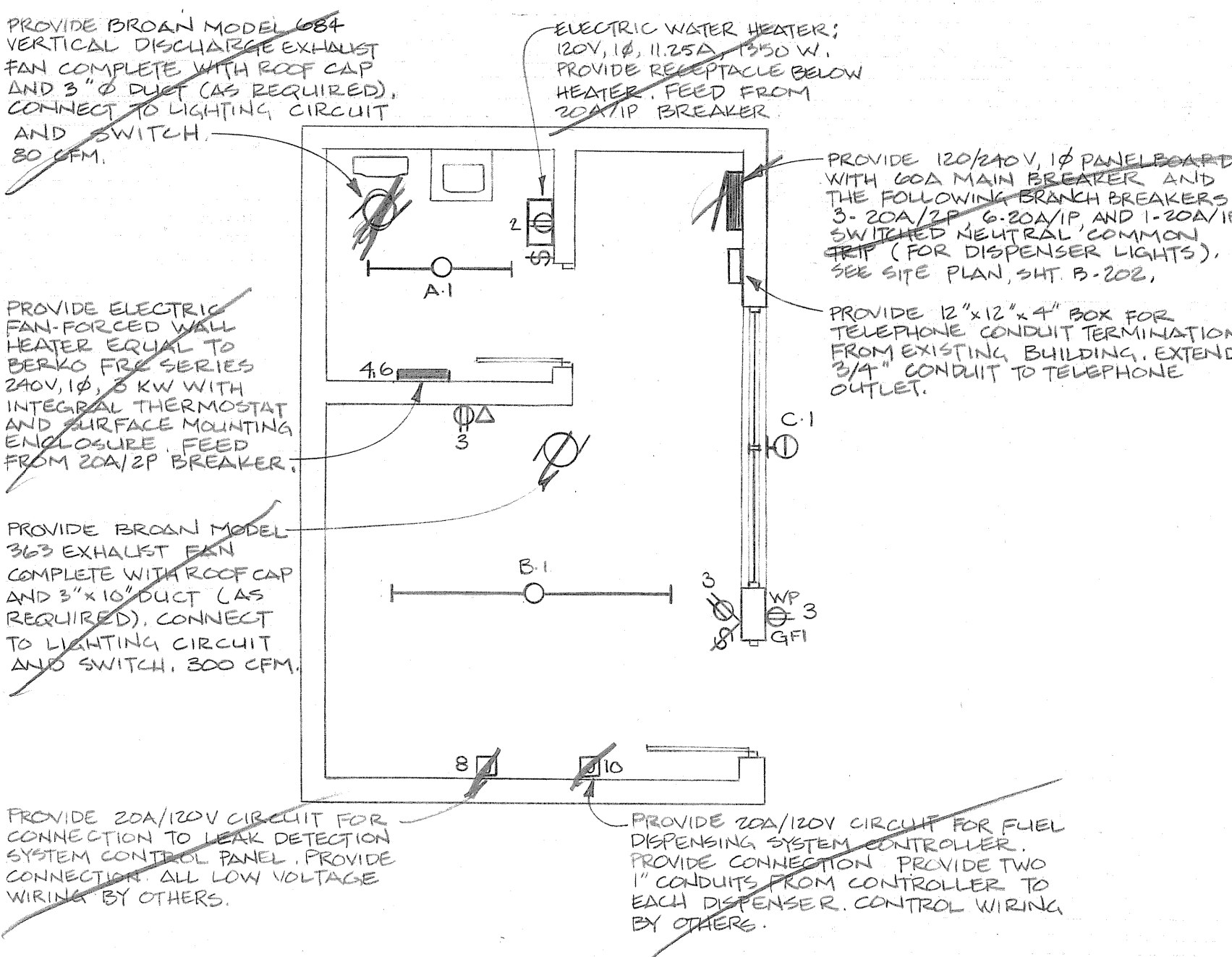
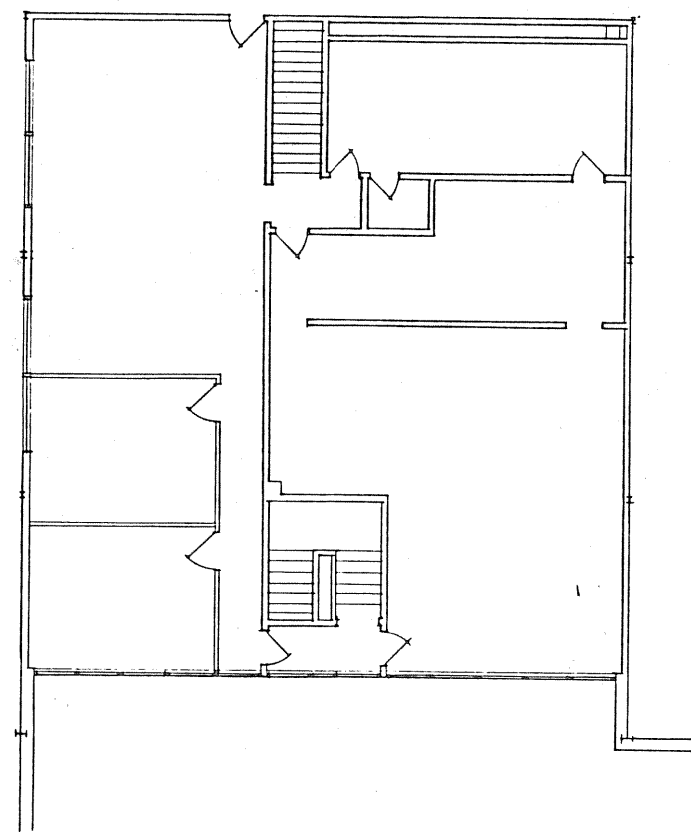
4	DROP INLET CONNECTION TO EXISTING MANHOLE
8-7.01	NTS



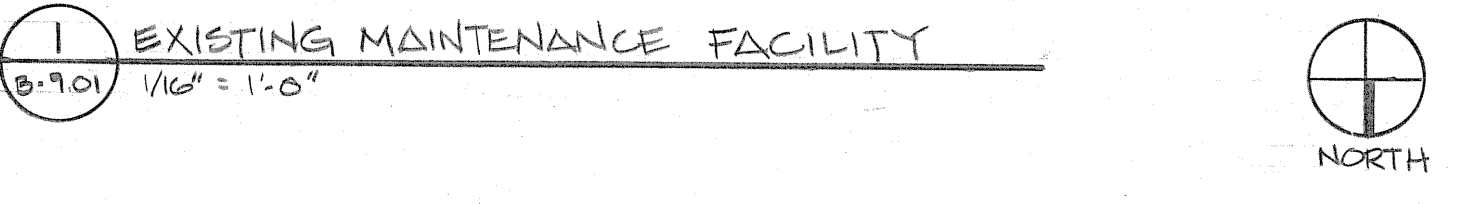
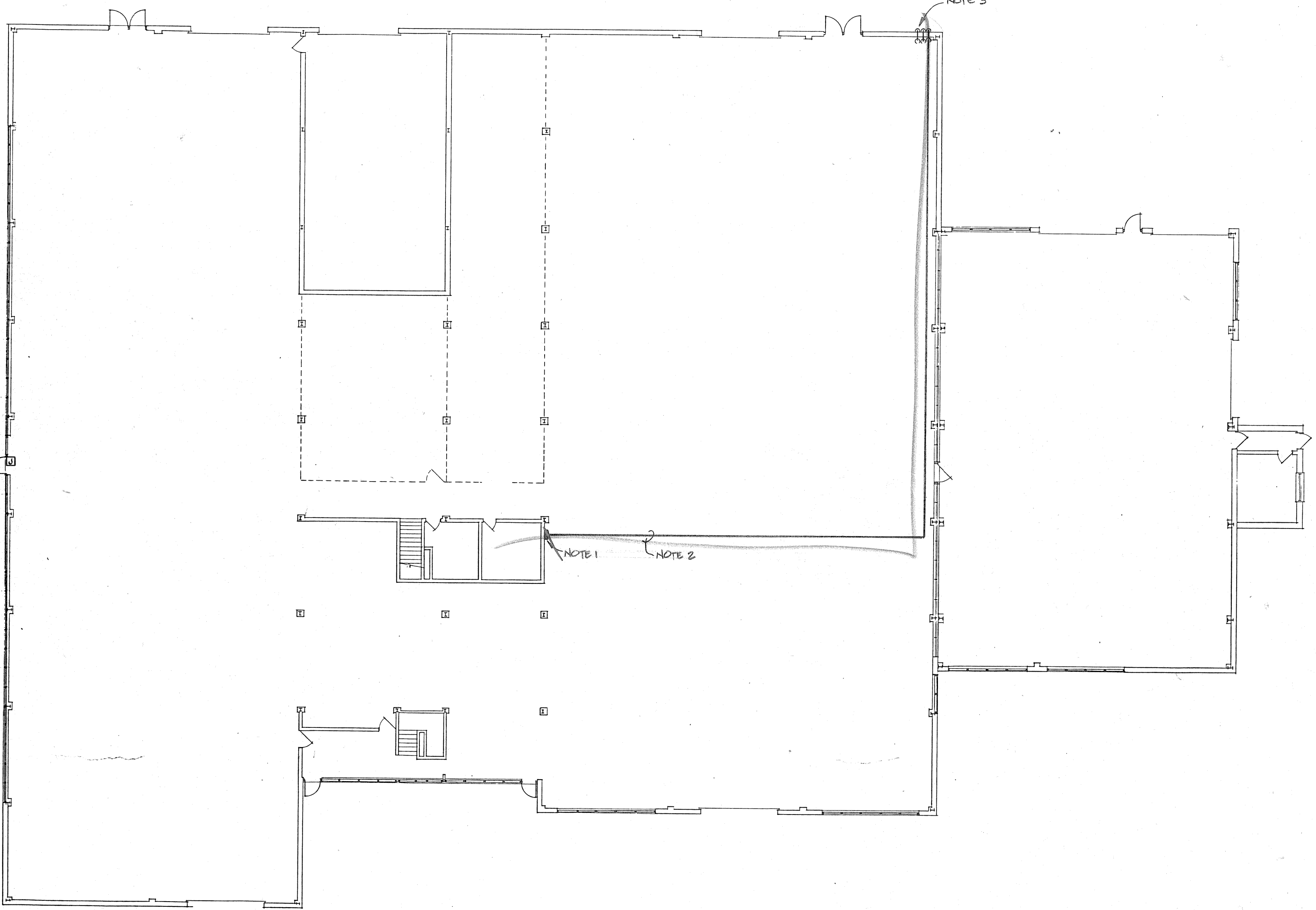
2 PARTIAL MAINTENANCE FACILITY FLOOR PLAN - PLBG
B-7.01 1/16" = 1' - 0"



5 UNDERGROUND STORAGE TANK (UST) DETAIL
B-721 NTS



- PROVIDE NEW 60A/2P CIRCUIT BREAKER IN EXISTING SQUARE D PANEL TO FEED PANEL IN NEW GAS BUILDING.
- EXTEND 3/4" IN 1" CONDUIT FROM EXISTING PANELBOARD UP TO JOIST SPACE. ROUTE THROUGH BUILDING. DROP AT EXTERIOR WALL TO 18" ABOVE FLOOR. PUNCH THROUGH WALL. PROVIDE LB FITTING AT EXTERIOR AND 1" CONDUIT FROM LB TO MINIMUM 3'-0" BELOW FINISH GRADE. SEE SITE PLAN.
- PROVIDE TWO 1" CONDUITS (ONE TELEPHONE AND ONE SPARE) FROM JOIST SPACE DOWN TO 18" ABOVE FLOOR. EXIT BUILDING THROUGH THE SAME OPENING AS POWER FEEDER. PROVIDE LB FITTINGS AND CONDUIT DOWN TO MINIMUM 3'-0" BELOW GRADE. SEE SITE PLAN. SEAL OPENING THROUGH BUILDING WALL.



FIXTURE SCHEDULE						
No.	Manufacturer	Catalog No.	Lamps	Order No.	Mounting	Notes
A	LITHONIA	C240-120-CMB	2	F40LW/RS/WHIT	SURFACE	1, 2
B	LITHONIA	8T-C240-120-CMB	4	F40LW/RS/WHIT	SURFACE	1, 2
C	SYLVANIA	BMD-470/4-70-120-PC	2	70W HPS	WALL	3

- FIXTURE SCHEDULE NOTES:**
1. ACCEPTABLE MANUFACTURERS ARE LITHONIA, LUMAX, METALUX, AND WILLIAMS.
 2. PROVIDE FIXTURE WITH COLD WEATHER BALLASTS.
 3. PROVIDE FIXTURE WITH INTEGRAL PHOTOCELL.

SYMBOLS & ABBREVIATIONS

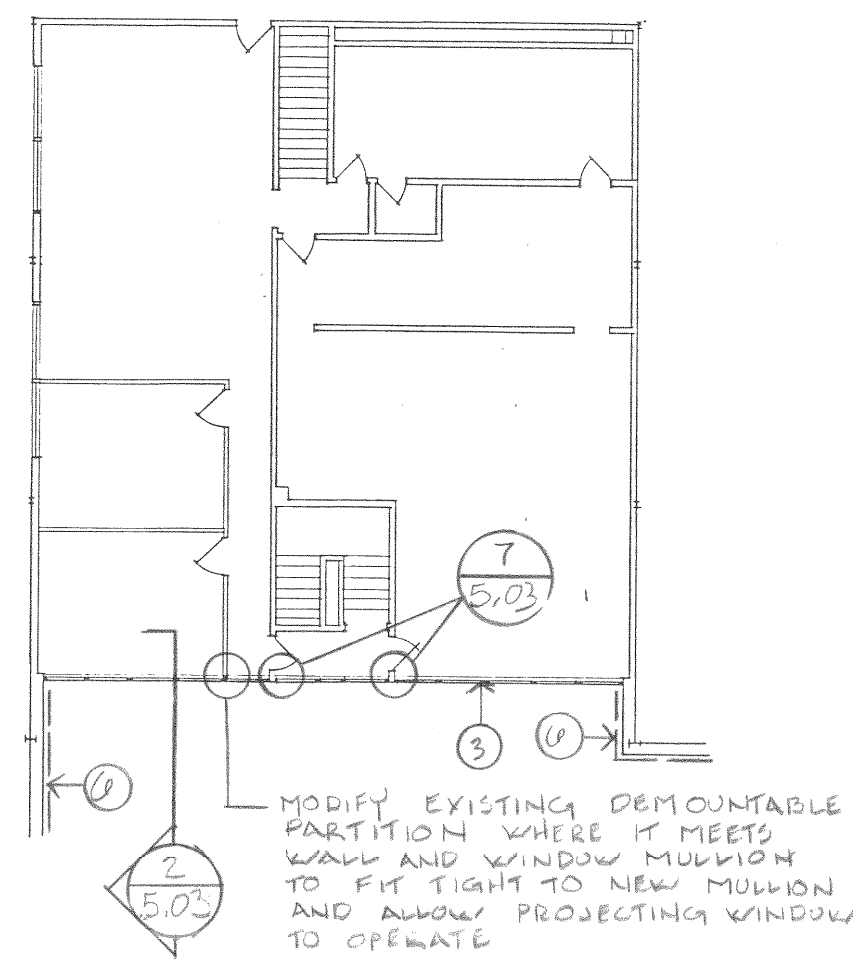
- HIGH INTENSITY DISCHARGE -
- FLUORESCENT FIXTURE - SURFACE OR
- UPPER CASE LETTER INDICATES FIXTURE TYPE. LOWER CASE INDICATES SWITCH, NUMBER INDICATES CIRCUIT
- SINGLE POLE SWITCH
- SWITCH AND RECEPTACLE IN SAME OUTLET BOX
- DUPLEX GROUND RECEPTACLE
- GROUND FAULT RECEPTACLE
- MOTOR OR SPECIAL EQUIPMENT CONNECTION. SEE SCHEDULE
- JUNCTION BOX. SIZE AS REQUIRED BY CODE
- TELEPHONE OUTLET - WALL, FLOOR
- PANELBOARD
- WEATHER PROOF

Date	Issuance / Revisions	Symbol
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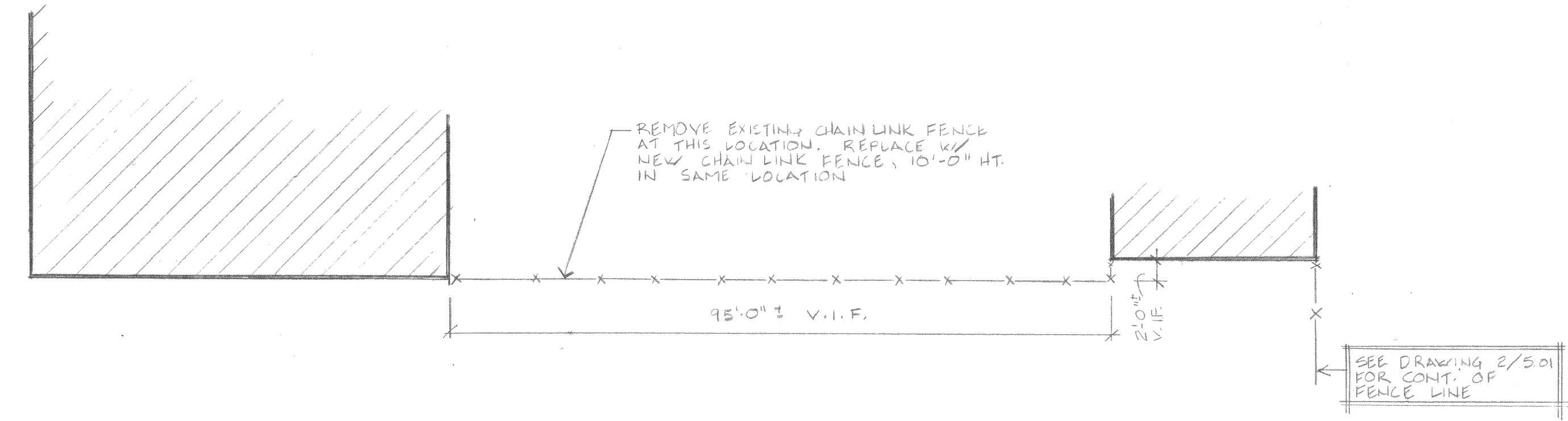
**ADDITIONS AND REMODELING
FOR THE
CITY OF MADISON
MADISON, WISCONSIN**

Drawing Title	
FLOOR PLAN & SCHEDULES - ELECTRICAL	
Project No. 92026.00	Drawing No. B-9.01
Drawn By A40	

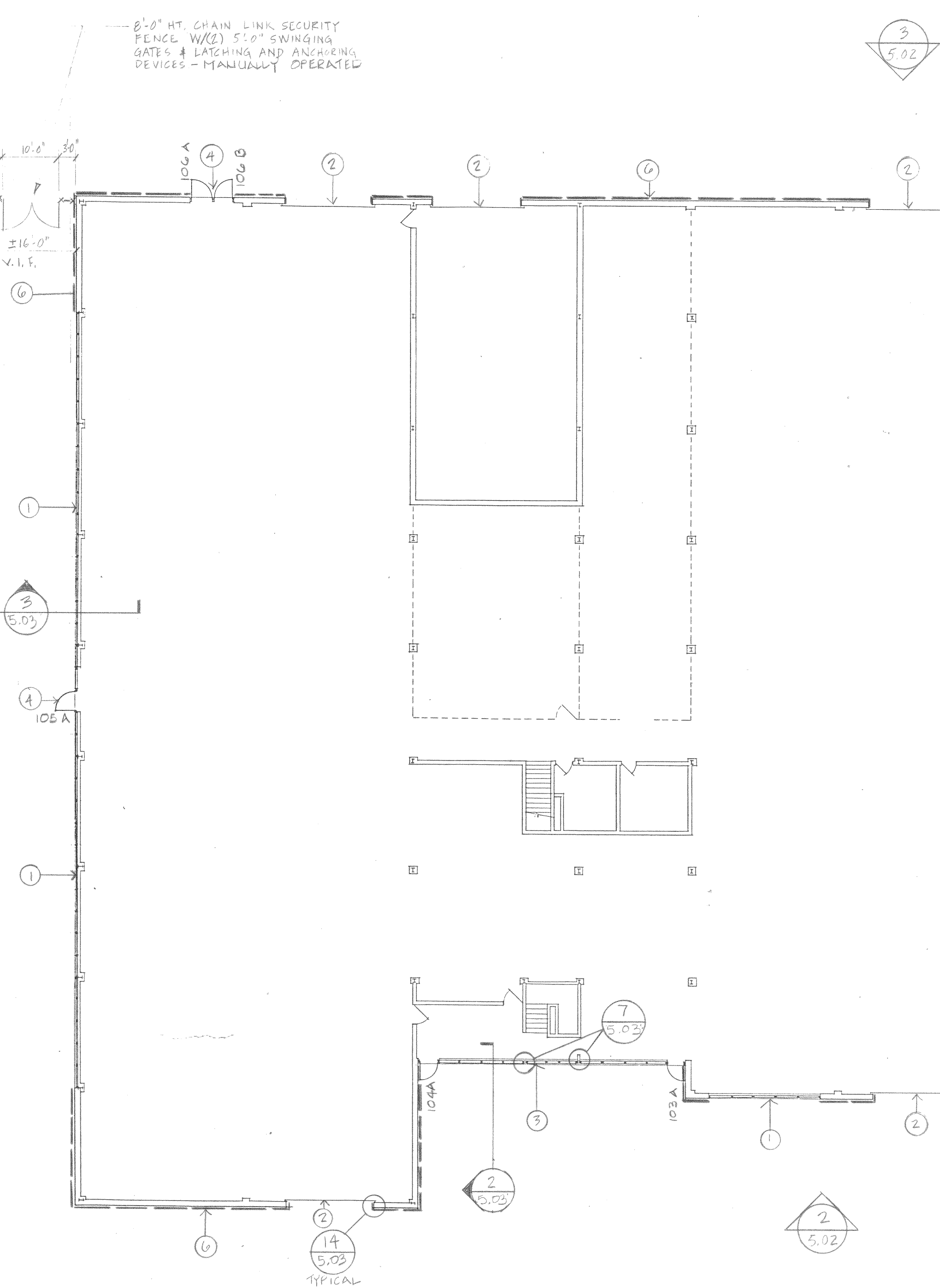
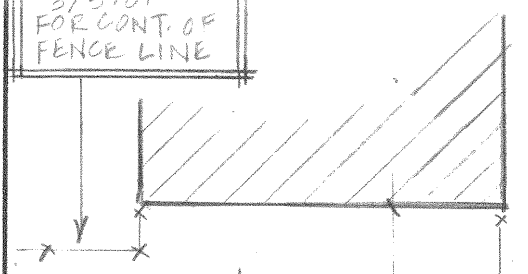
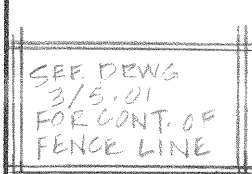
1993 - Exterior Remodel



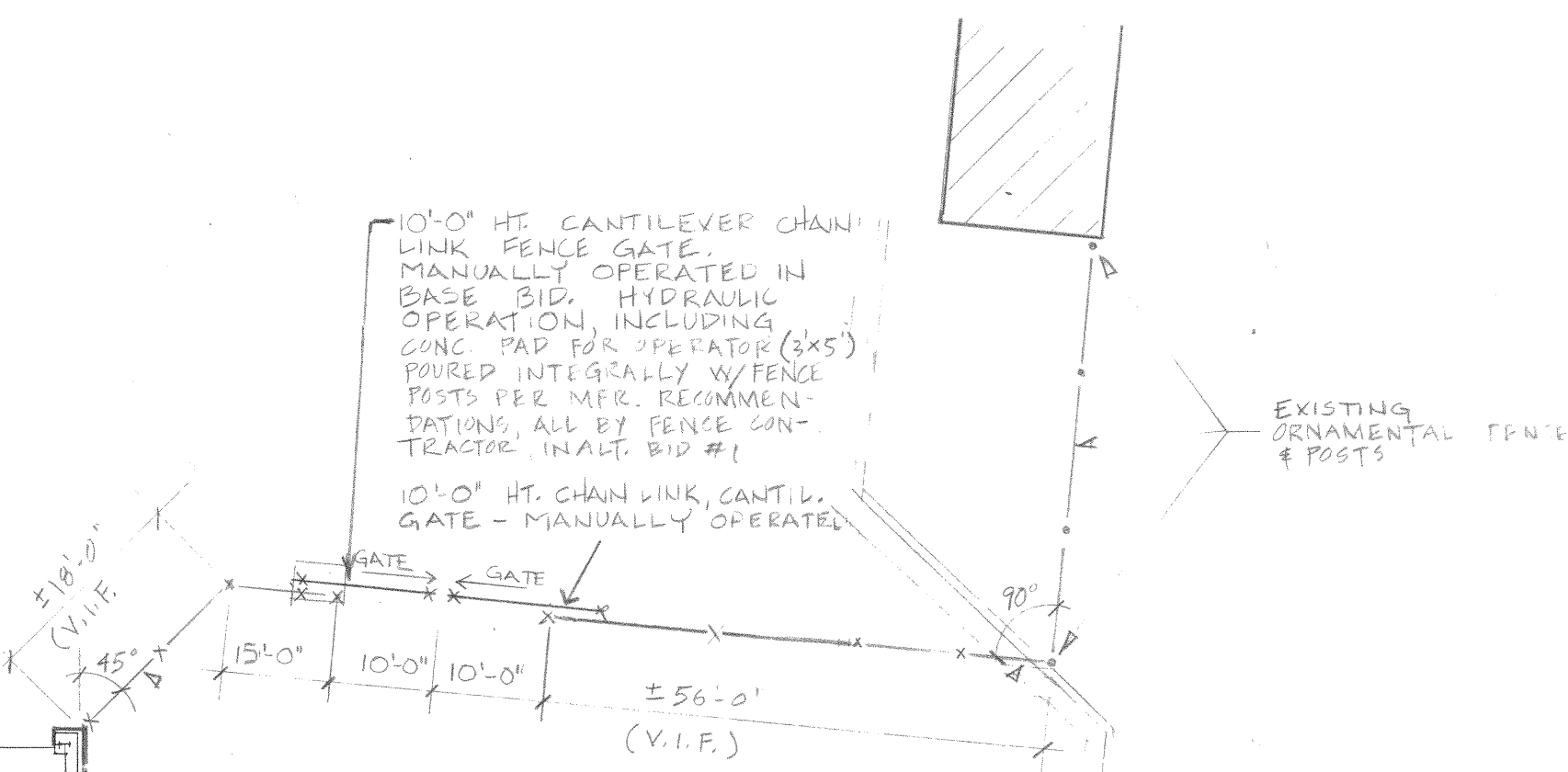
1 PARTIAL SECOND FLOOR REFERENCE PLAN
NO SCALE



3 EAST FENCE PLAN
NO SCALE



2 FIRST FLOOR REFERENCE PLAN
NO SCALE



NEW 10'-0" HT. CHAIN LINK SECURITY FENCE FASTENED TO 8'-0" ORNAMENTAL FENCE POST AT WEST END

EXISTING HOLLOW METAL DOOR & WINDOW TO REMAIN

DASHED LINES INDICATE NEW BASE TREATMENT - SEE ELEVATIONS

- 1 REMOVE EXISTING STEEL SASH WINDOWS - REPLACE W/ NEW TRANSLUCENT WINDOW SYSTEM - SEE WALL SECTION 3/8-5.03 (SEE ALSO ELEVATIONS)
- 2 PAINT EXISTING S.H. DOOR & FRAMES
- 3 REMOVE EXISTING STEEL SASH WINDOWS - REPLACE W/ NEW ALUM. WINDOW SYSTEM - SEE WALL SECTION 2/8-5.03 (SEE ALSO ELEVATIONS)
- 4 REMOVE EXISTING HOLLOW METAL DOOR & FRAMING - REPLACE W/ NEW HOLLOW METAL DOOR & FRAME
- 5 SEAL CRACKS AT INTERIOR W/ SEALANT & BACKER ROD
- 6 EIFS SYSTEM W/ 2" RIGID INSULATION

Date	Issuance / Revisions	Symbol
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2-1-13 ISSUED FOR CONSTRUCTION

Exterior Remodeling
of the
First Street Garage

City of Madison
Madison, Wisconsin

Drawing Title
MAINTENANCE GARAGE
REFERENCE PLANS

Project No.
72026.01

Drawing No.
5.01

Drawn By
MCE

REMODELING NOTES

1. NEW REFINISHED METAL COPING OVER EXISTING PRECAST STONE COPING.
2. REMOVE EXISTING METAL COPING & REPLACE W/ NEW PREFINISHED METAL COPING.
3. EIFS SYSTEM W/ 2" RIGID INSULATION. SEE ELEVATION FOR COLOR & BANDING.
4. REMOVE EXISTING STEEL SASH WINDOWS - REPLACE W/ NEW TRANSLUCENT WINDOW SYSTEM - SEE WALL SECTION 3/8-5.03
5. NEW ALUM. WINDOW OIL OVER EXISTING PRECAST STONE. COLOR TO MATCH TRANSLUCENT WINDOW SYSTEM.
6. RELOCATE EXISTING LIGHT FIXTURE TO NEW FINISH SURFACE.
7. EXISTING O.H. DOOR TO REMAIN. PAINT CAST METAL W/ ALUM. GUARDS, UNITS & O.H. DOOR TRIM TO MATCH WINDOW FRAME COLOR.
8. REMOVE EXISTING STEEL SASH WINDOW SYSTEM. REPLACE W/ NEW ALUMINUM WINDOW SYSTEM. SEE WALL SECTION 3/8-5.03
9. EIFS FINISH COAT ONLY (W/FABRIC) ON EXISTING CMU WALL.
10. REMOVE EXISTING HOLLOW METAL DOOR AND FRAMING. REPLACE W/ NEW HOLLOW METAL DOOR AND FRAMING. PAINT TO MATCH TRANSLUCENT PANEL FRAMES.
11. RELOCATE EXISTING DOOR CONTROLS TO NEW FINISH SURFACE.
12. REMOVE EXISTING REFRIG. & BACKL. COP. SINK UNIT. PROVIDE NEW REFRIG. & BACKL. COP. SINK UNIT.

1 WEST ELEVATION
5.02 1/8" = 1'-0"

2 NORTH ELEVATION
5.02 1/8" = 1'-0"

3 SOUTH ELEVATION
5.02 1/8" = 1'-0"

4 EAST ELEVATION
5.02 1/8" = 1'-0"

5 DOOR JAMB DETAIL
5.02 3/8" = 1'-0"

6 LTR. JAMB DETAIL
5.02 3/8" = 1'-0"

7 TRANS. WINDOW SYSTEM JAMB DETAIL
5.02 3/8" = 1'-0"

2.1.13 ISSUED FOR CONSTRUCTION

Date Issuance / Revisions Symbol

Exterior Remodeling
of the
First Street Garage

City of Madison
Madison, Wisconsin

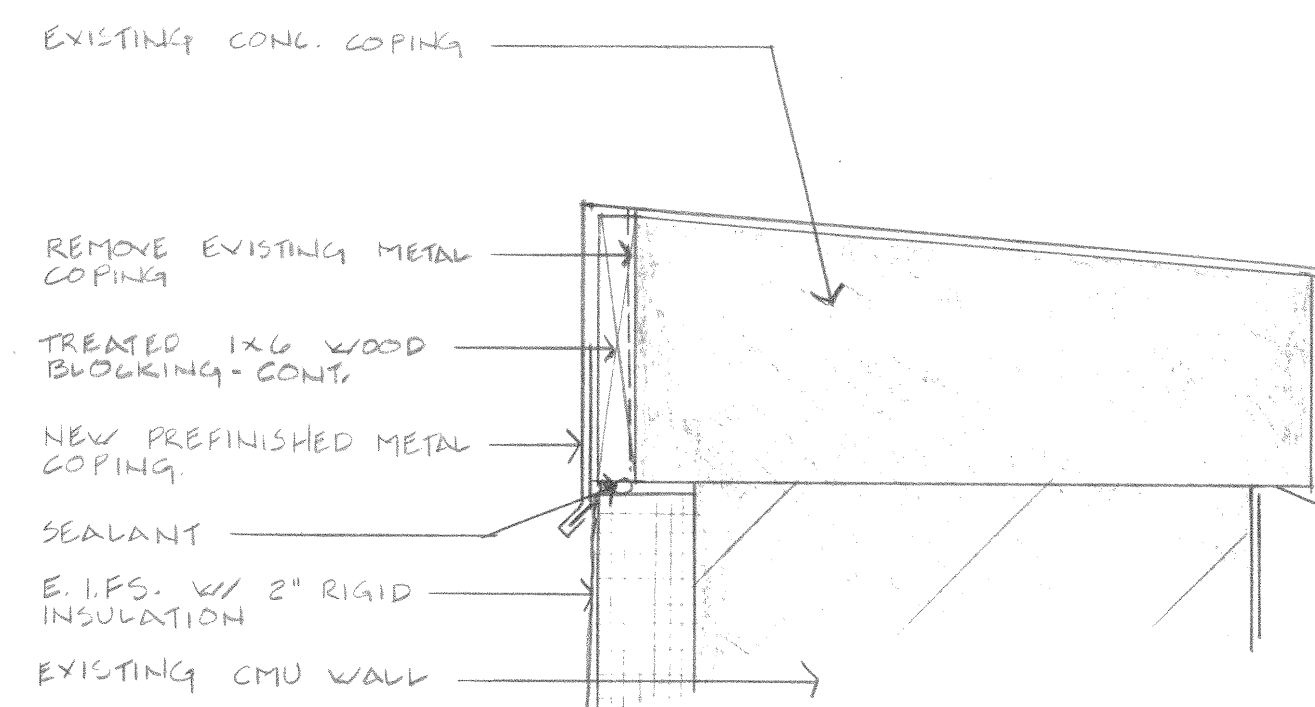
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ELEVATIONS

Project No.
420210.01

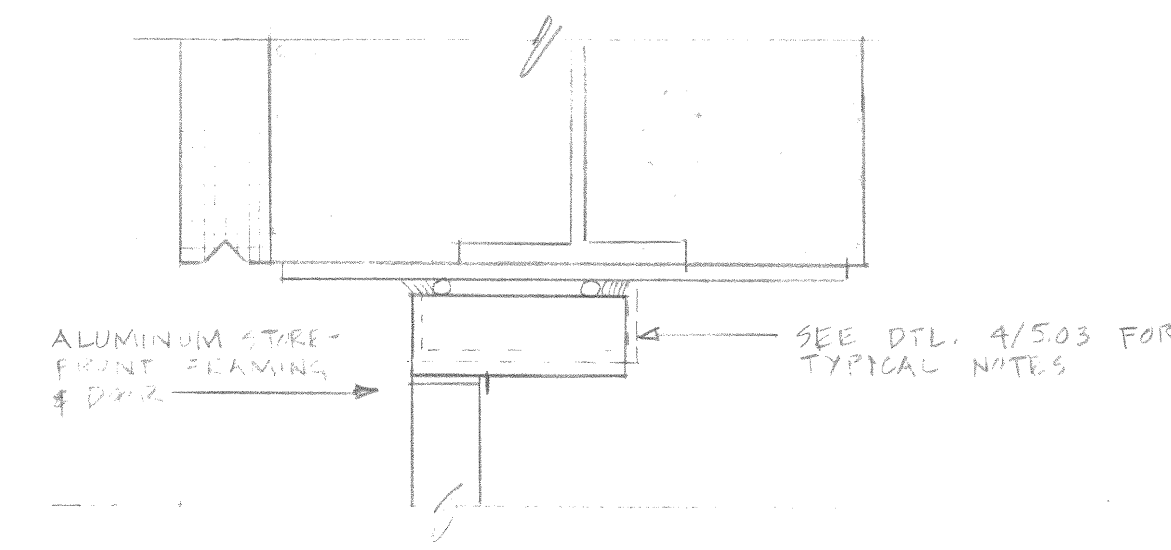
Drawing No.

Drawn By
M.G.

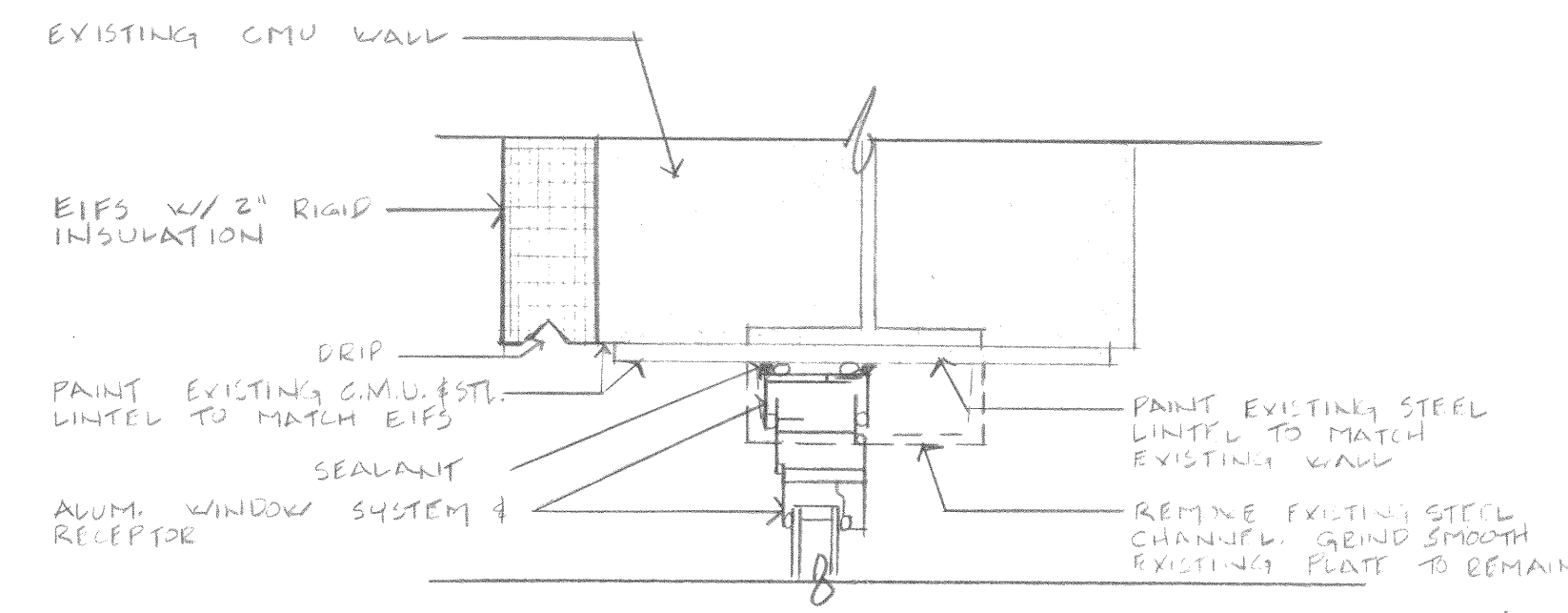
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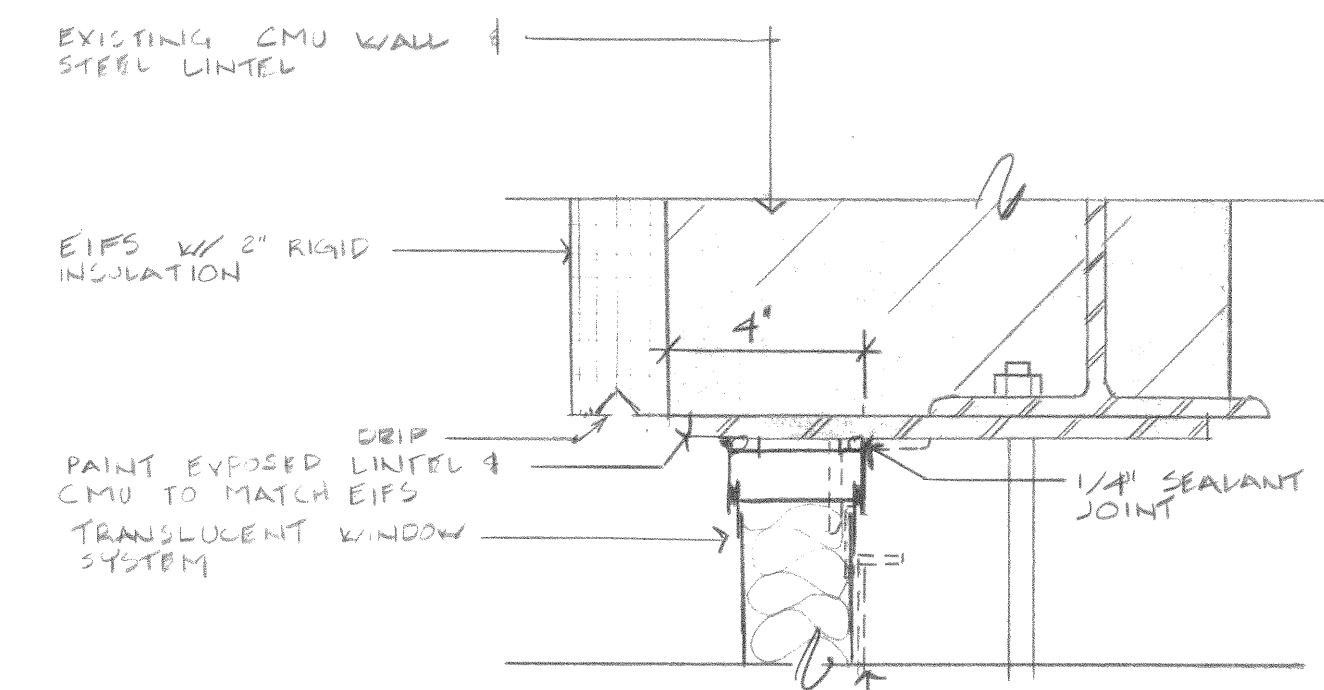
1 COPING DETAIL
5.03 3"=1'-0"



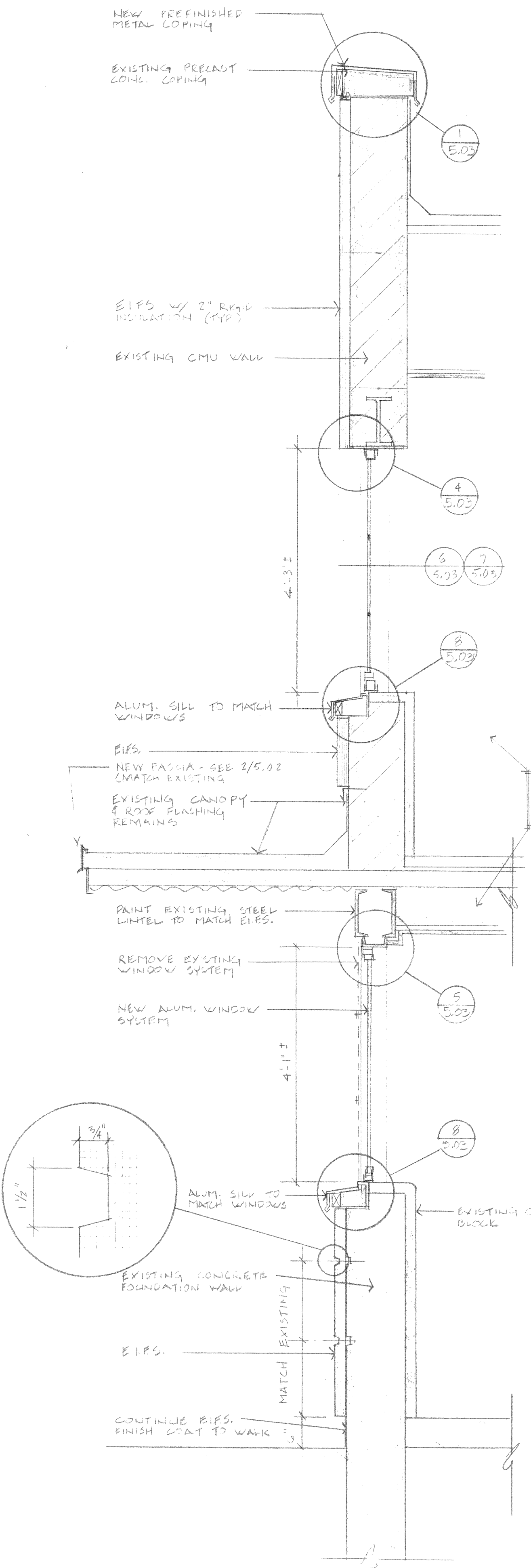
3A HEAD DETAIL
5.03 3"=1'-0"



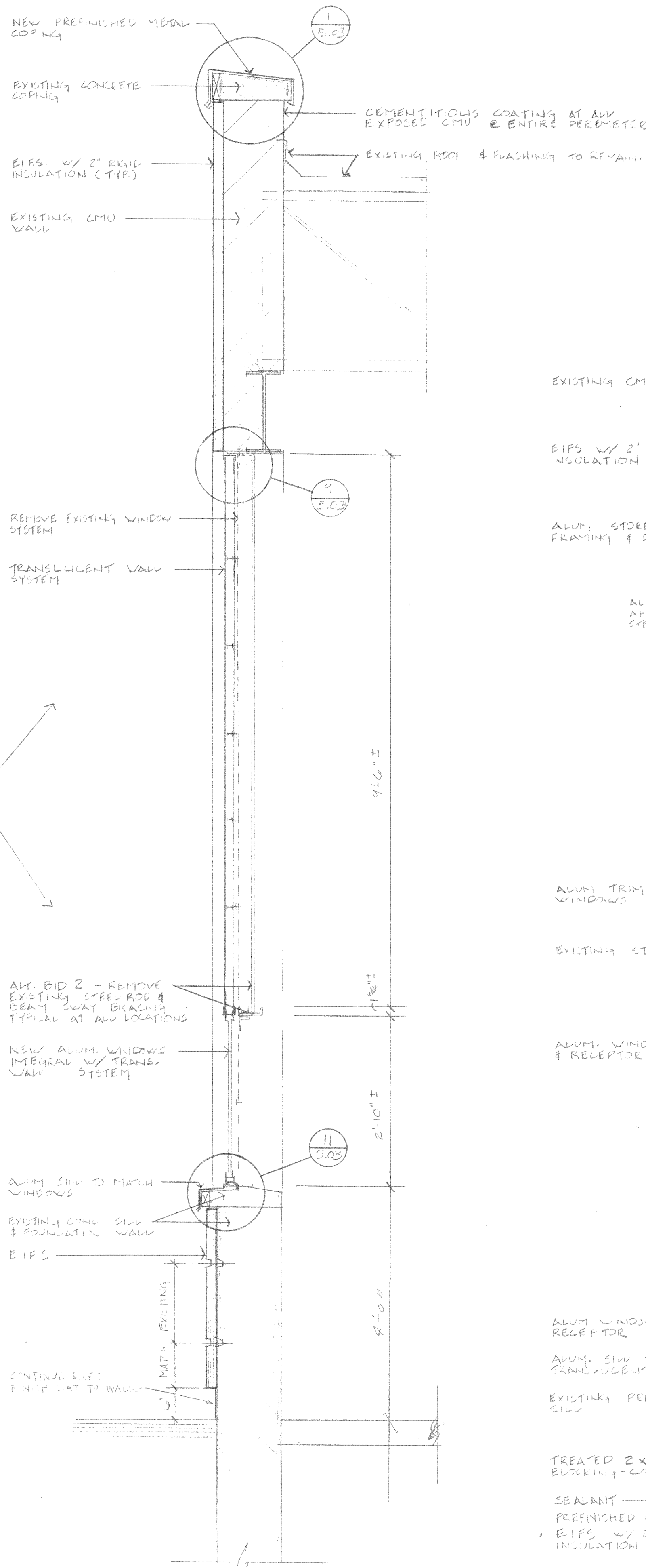
4 HEAD DETAIL
5.03 3"=1'-0"



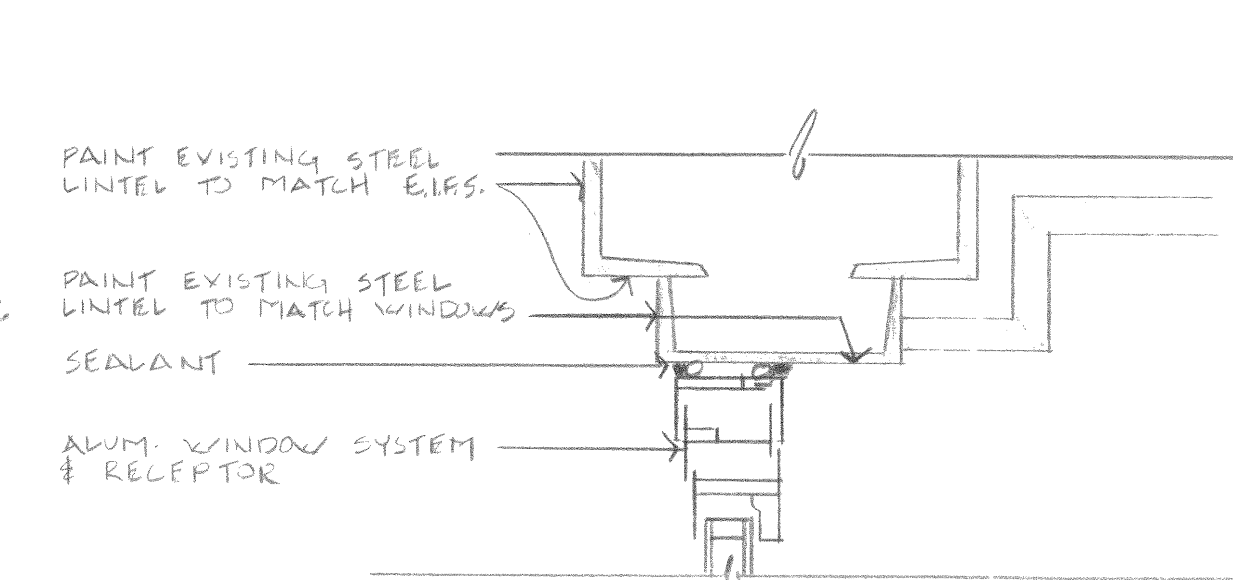
7 HEAD DETAIL
5.03 3"=1'-0"



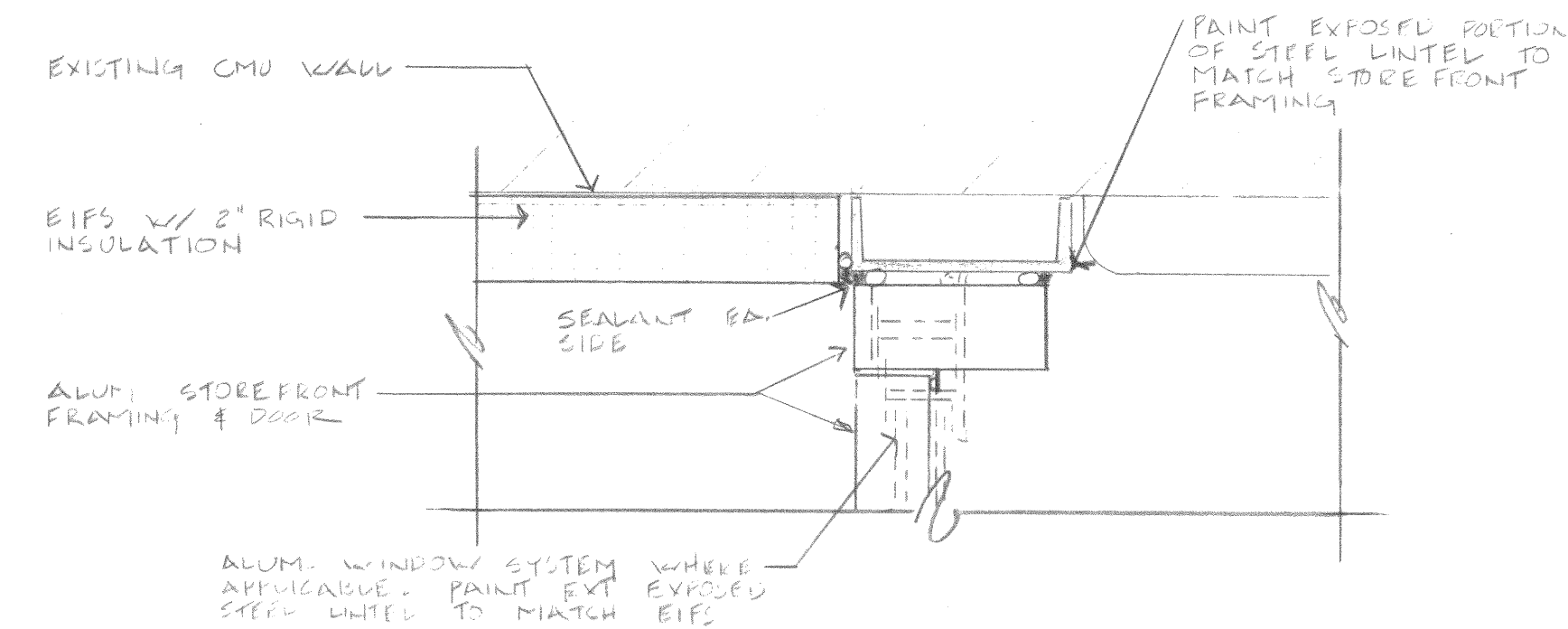
2 WALL SECTION
5.03 3/4"=1'-0"



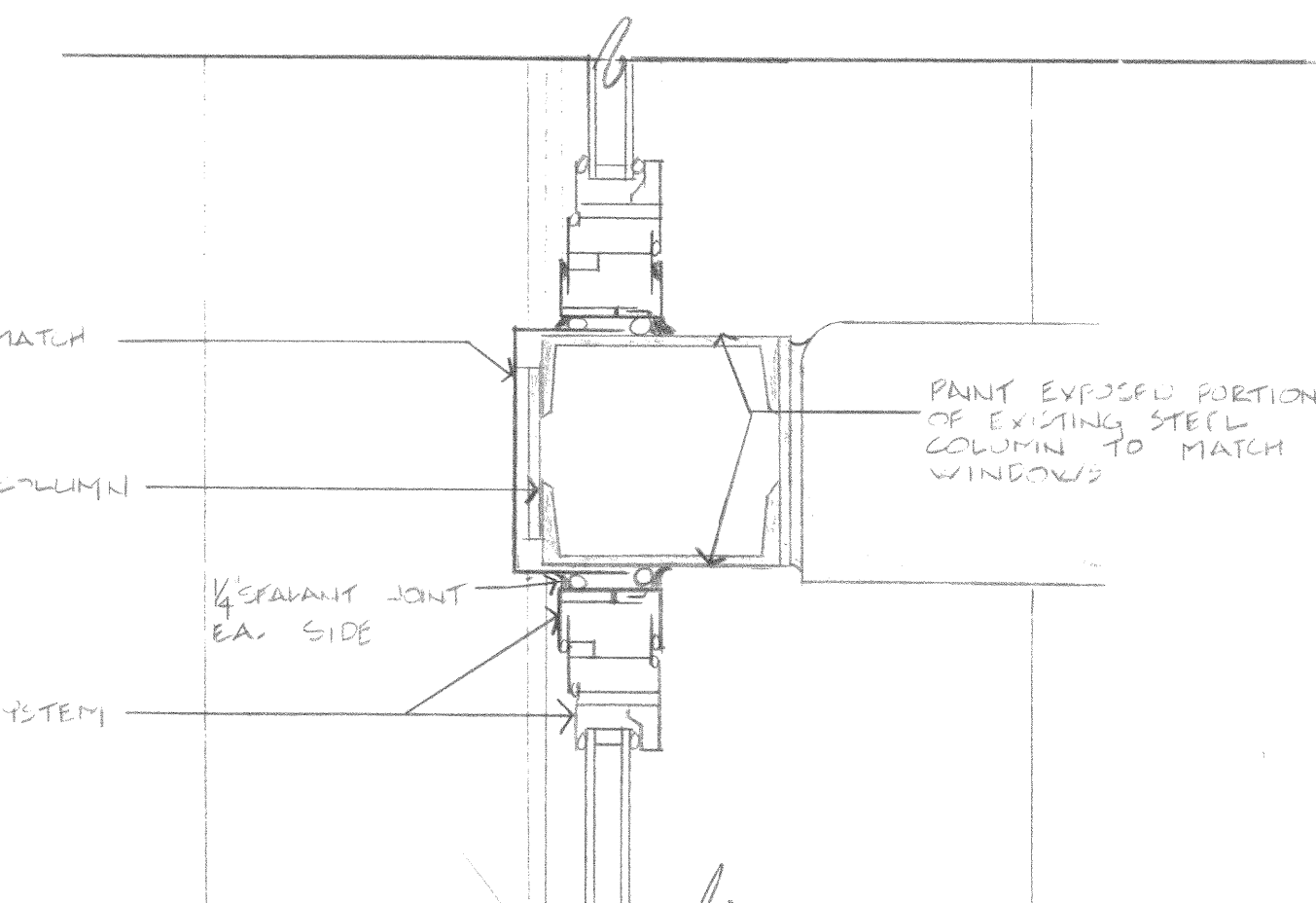
3 WALL SECTION
5.03 3/4"=1'-0"



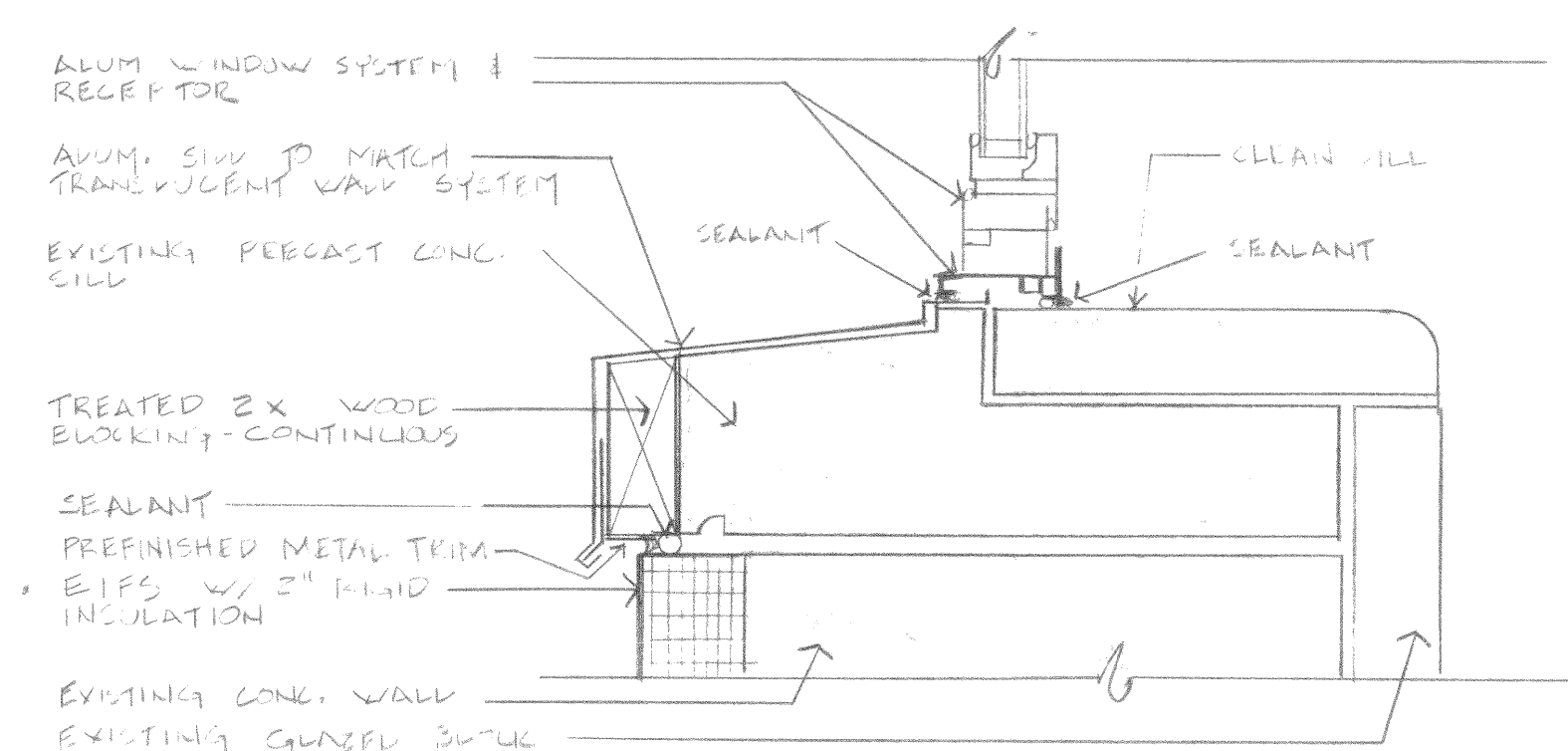
5 HEAD DETAIL
5.03 3"=1'-0"



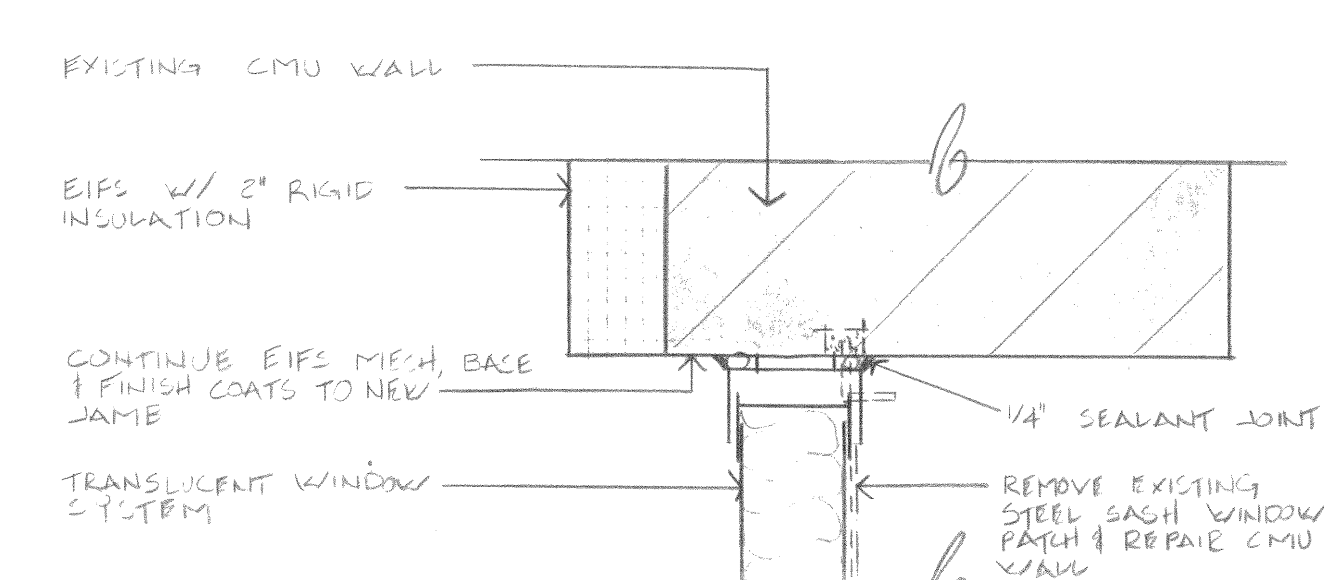
6 JAMB DETAIL
5.03 3"=1'-0"



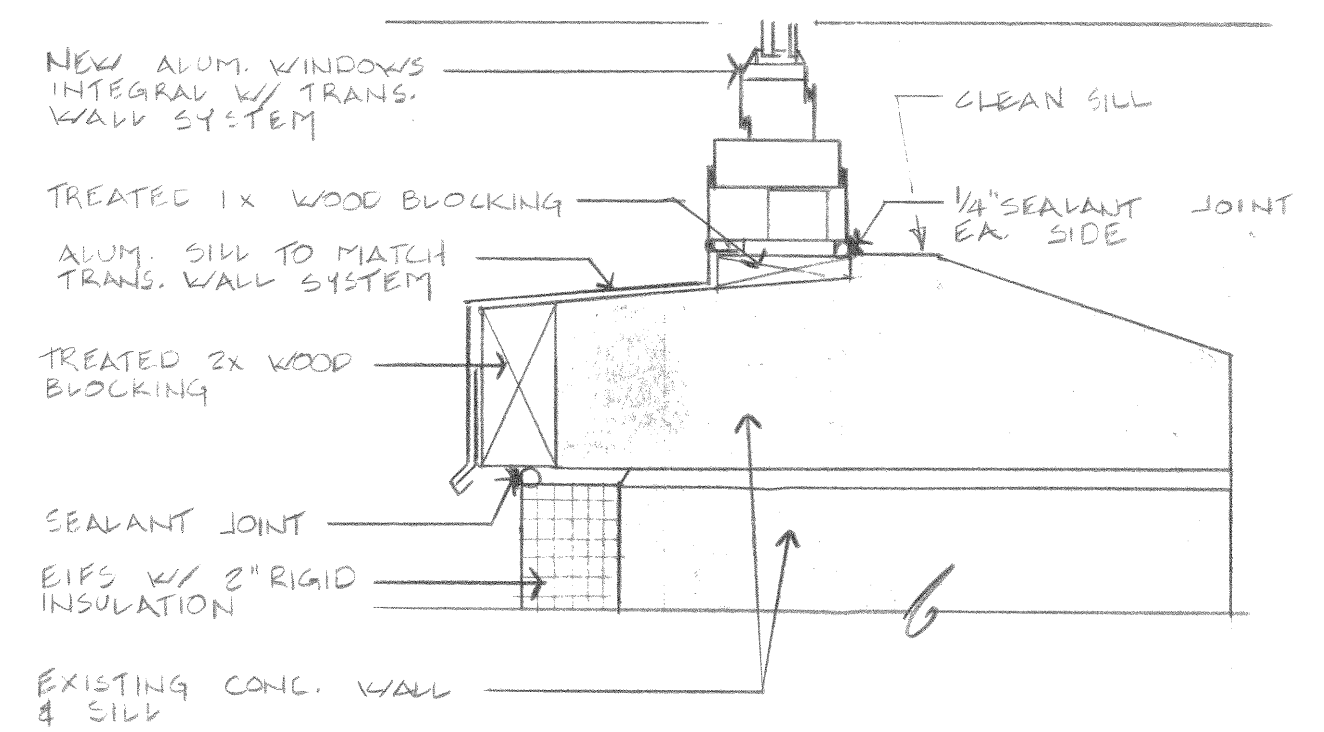
7 MULLION DETAIL
5.03 3"=1'-0"



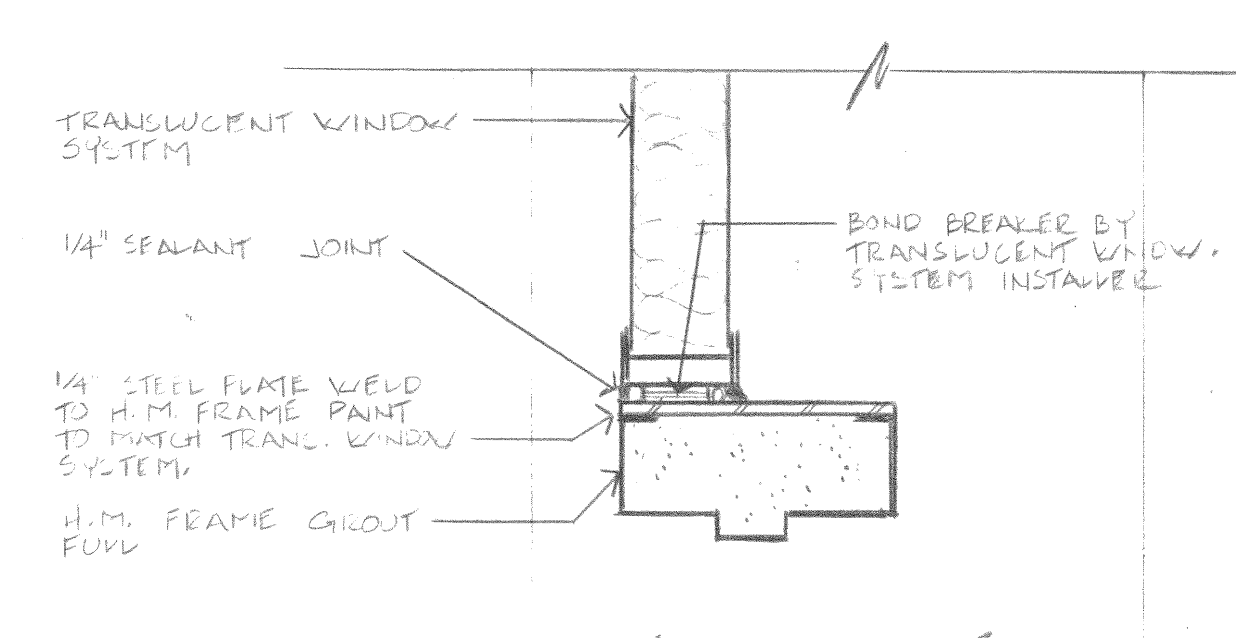
8 SILL DETAIL
5.03 3"=1'-0"



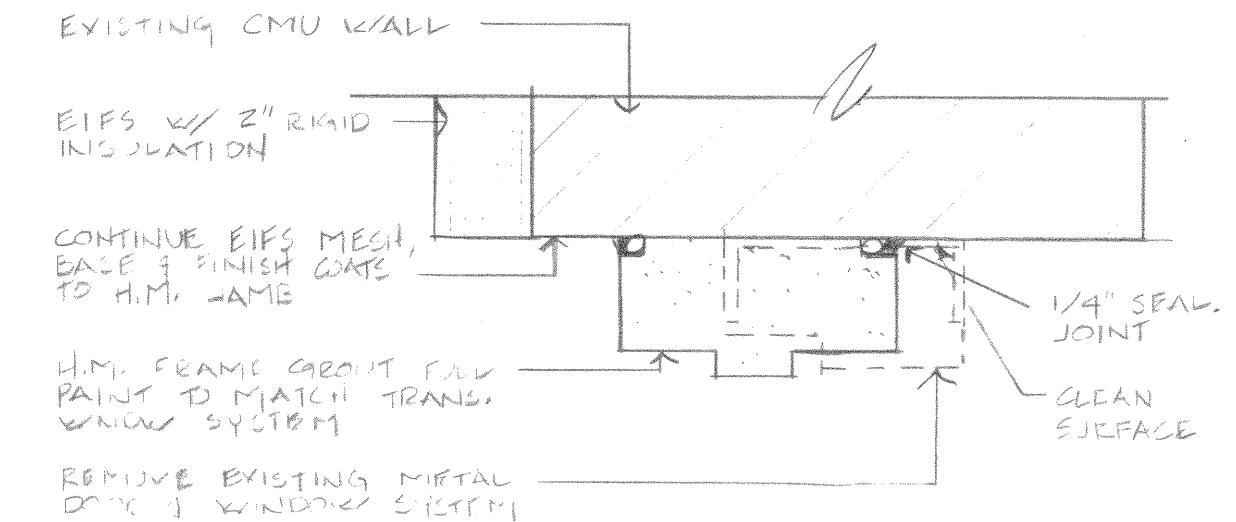
10 JAMB DETAIL
5.03 3"=1'-0"



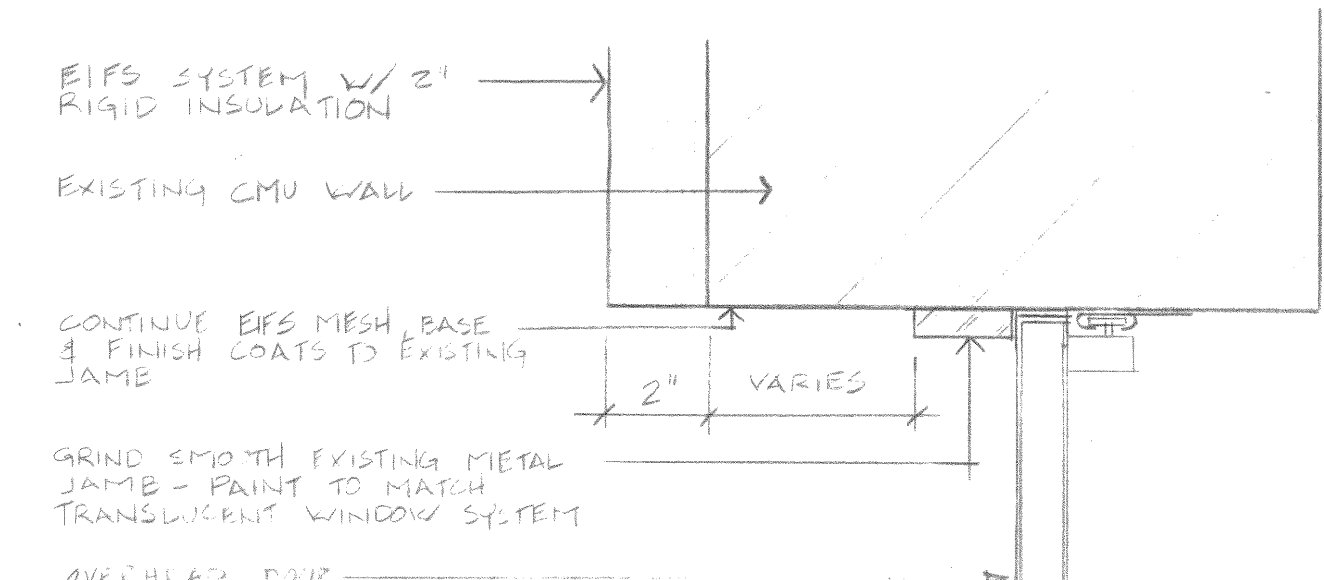
11 SILL DETAIL
5.03 3"=1'-0"



12 DOOR HEAD DTL
5.03 3"=1'-0"



13 DOOR JAMB DTL
5.03 3"=1'-0"



14 JAMB DETAIL
5.03 3"=1'-0"
* HEAD SIMILAR

Date	Issuance / Revisions	Symbol
------	----------------------	--------

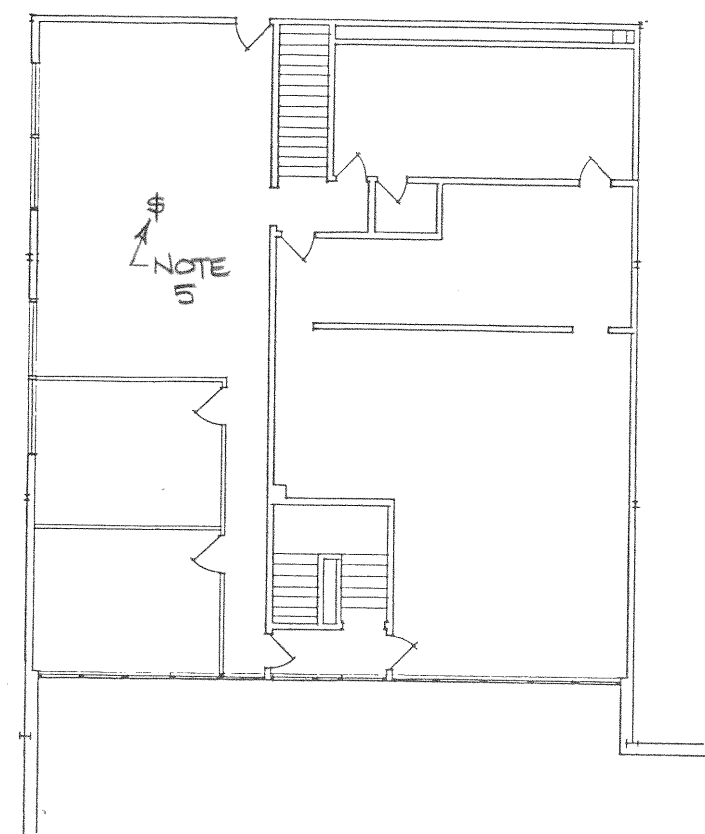
Exterior Remodeling
of the
First Street Garage

City of Madison
Madison, Wisconsin

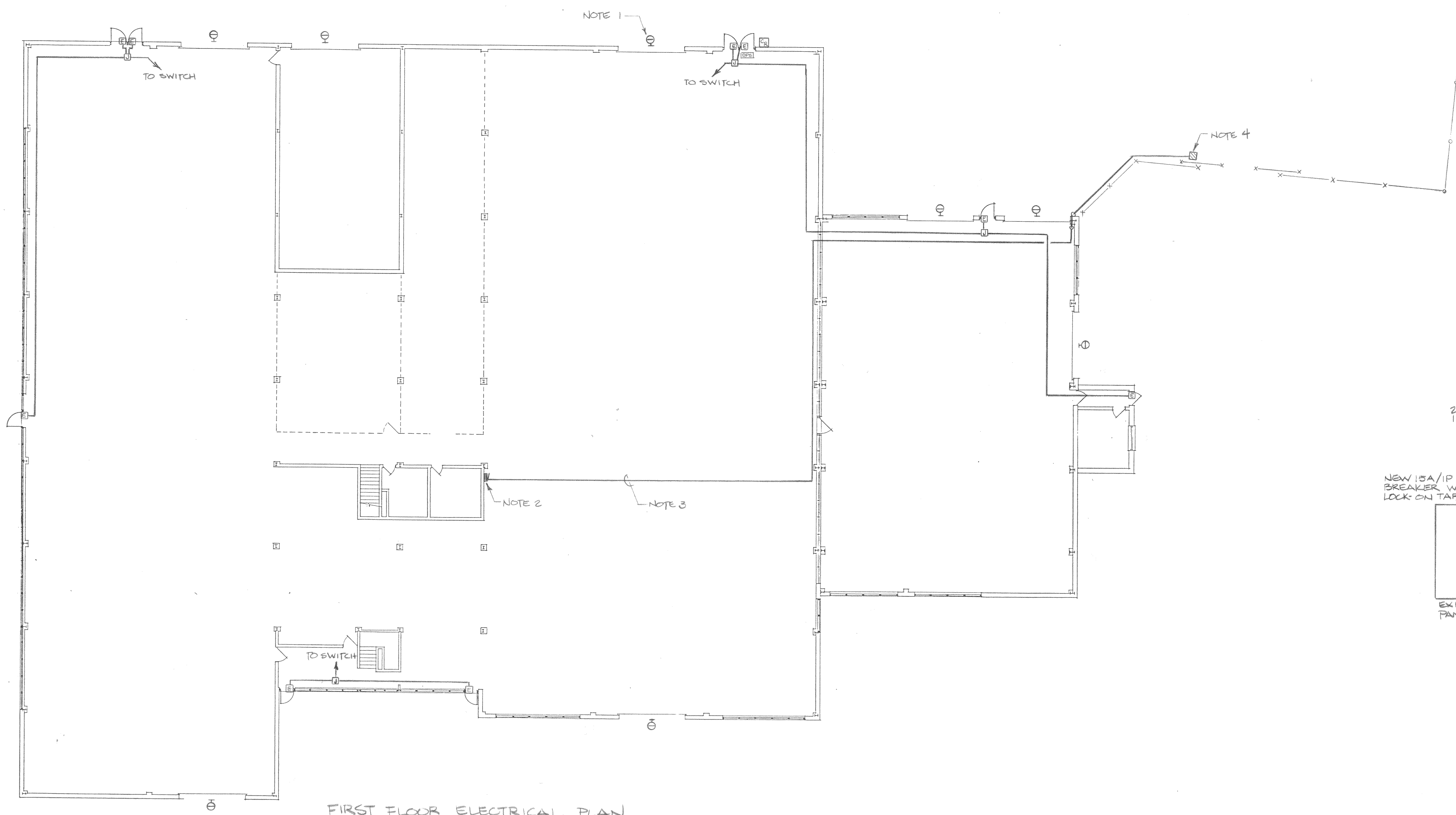
Drawing Title
WALL SECTIONS, DETAILS

Project No. 18.024-01	Drawing No.
Drawn By ML	

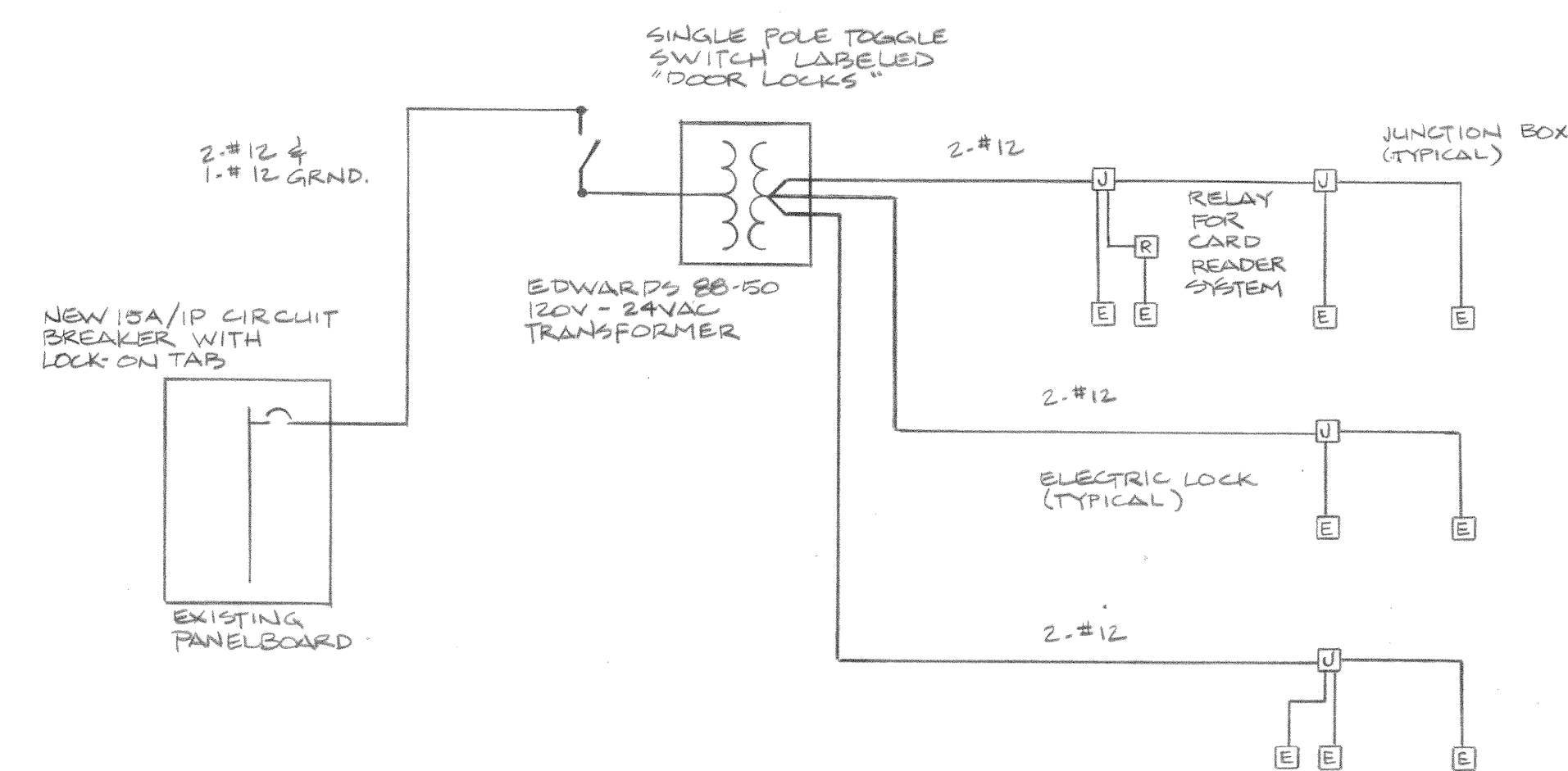
1. REPLACE EXISTING LIGHT FIXTURE WITH NEW 100W HPS WALL BRACKET NEW FIXTURES, TO BE ARCHITECTURAL AREA LIGHT CATALOG NO. ALN400WJ-344T 100WPS-120V. REUSE EXISTING CIRCUIT AND CONTROL. VERIFY VOLTAGE REQUIREMENT. TYPICAL OF EIGHT PROVIDE FIXTURES WITH CUSTOM FINISH, COLOR TO BE KALWALL MARCON #96.
2. PROVIDE NEW 30A/2P CIRCUIT BREAKER IN EXISTING SQUARE D PANELBOARD TO FEED NEW GATE OPERATOR.
3. EXTEND 3-#10 #1-#10 GROUND IN 3/4" CONDUIT FROM NEW BREAKER TO NEW FUSIBLE 30A, OR PADLOCKABLE DISCONNECT, MOUNT DISCONNECT ON CONTROLLER.
4. GATE OPERATOR: 1 HP, 240V, 1Ø WITH 250W STRIP HEATER. PROVIDE ALL POWER CONNECTIONS.
5. LOCATE SWITCH FOR ELECTRIC LOCKS AS DIRECTED BY OWNER. SEE ELECTRIC LOCK SCHEMATIC DIAGRAM.



SECOND FLOOR ELECTRICAL PLAN
1/16" = 1'-0"



FIRST FLOOR ELECTRICAL PLAN
1/16" = 1'-0"



ELECTRIC LOCK SCHEMATIC DIAGRAM
NO SCALE

Date	Issuance / Revisions	Symbol

Exterior Remodeling
of the
First Street Garage

City of Madison
Madison, Wisconsin

Drawing Title
ELECTRICAL PLANS

Project No.	Drawing No.

Drawn By AJO	9.01
-----------------	------

Consultant

EXTERIOR REMODELING OF THE FIRST STREET GARAGE

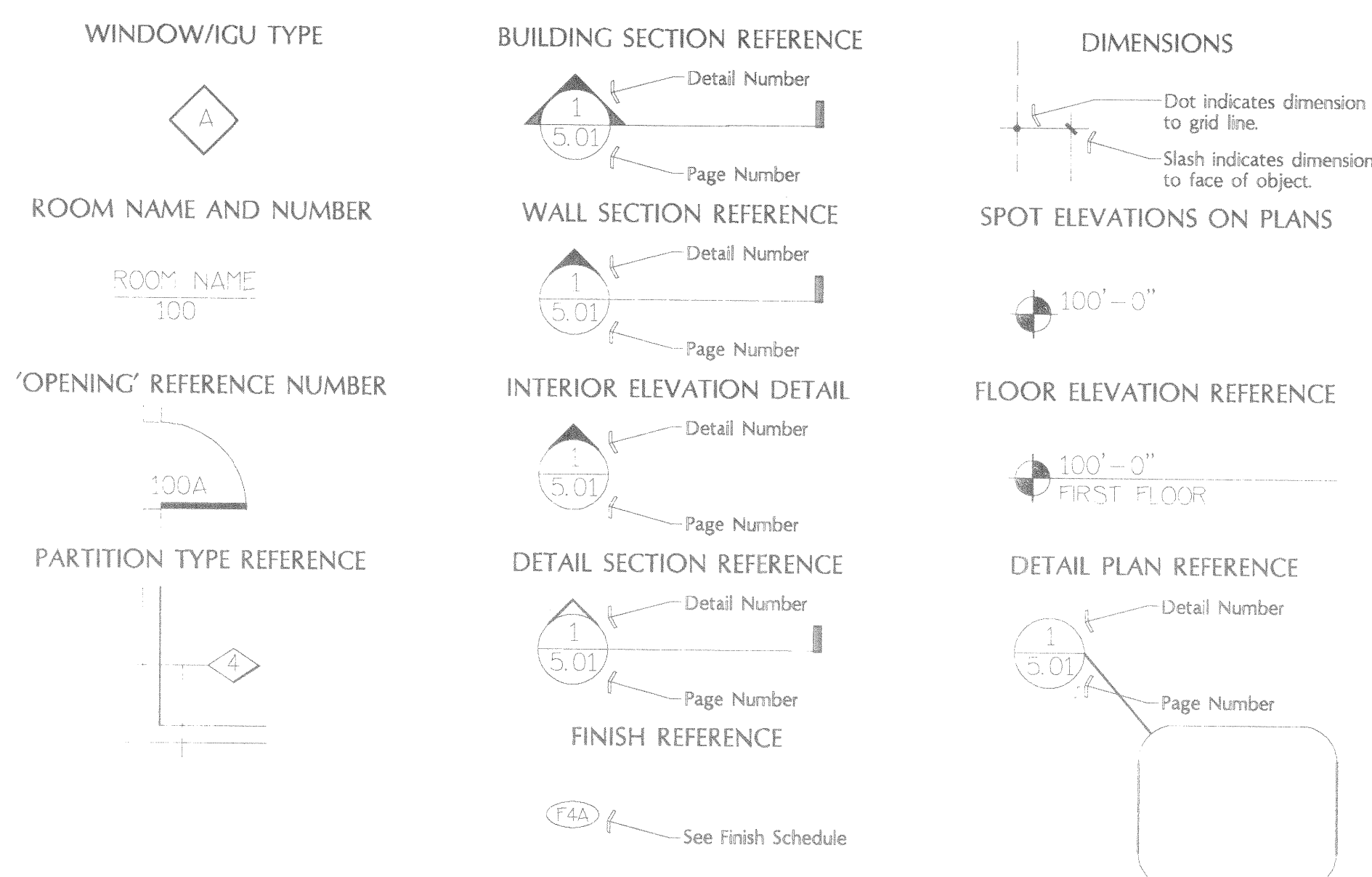
200 NORTH FIRST STREET

FOR THE CITY OF MADISON MADISON, WISCONSIN

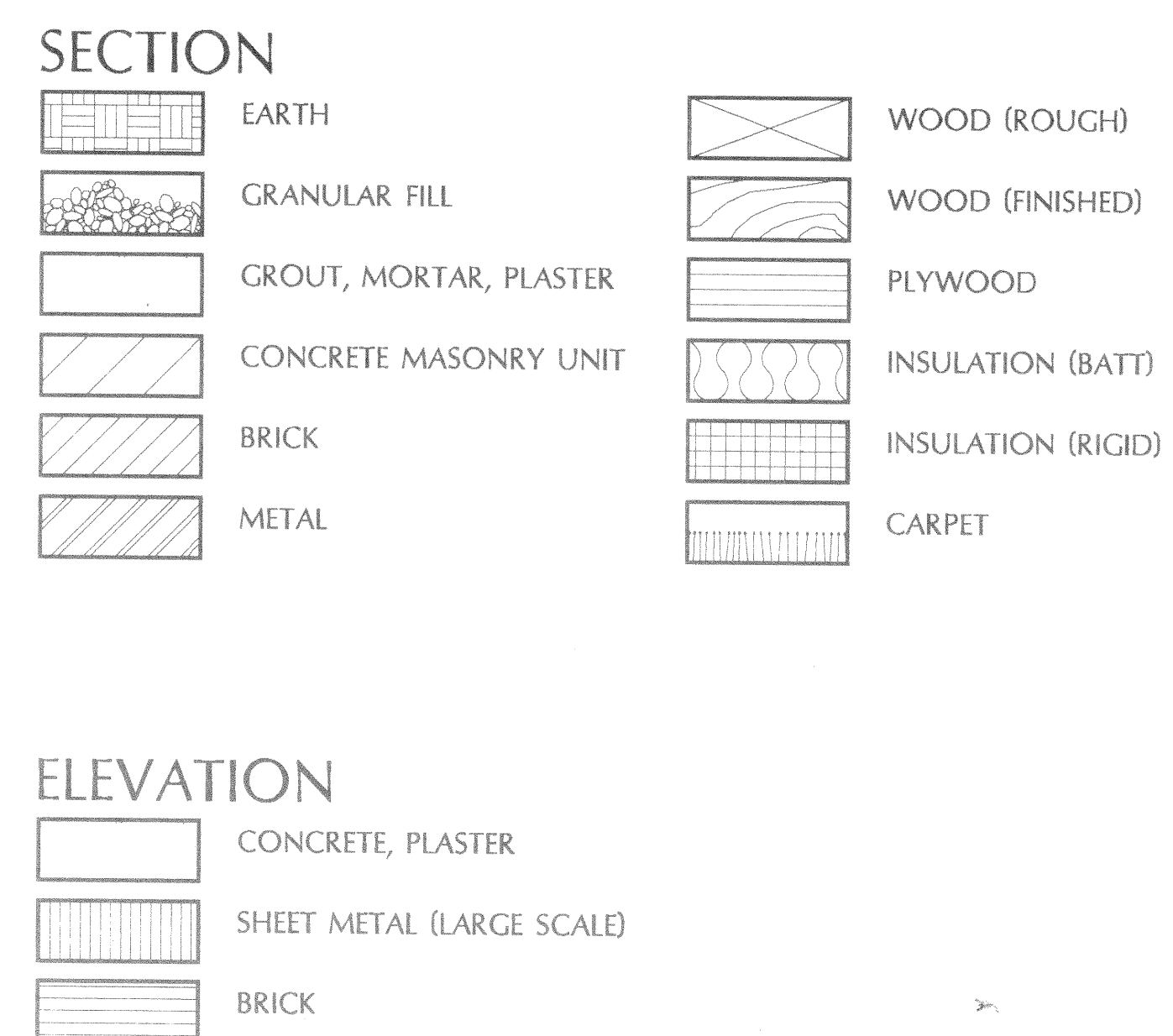
DRAWING INDEX

1.01	Title Drawing
5.01	Maintenance Garage Reference Plans
5.02	Elevations
5.03	Wall Sections and Details
9.01	Electrical Plans

SYMBOLS

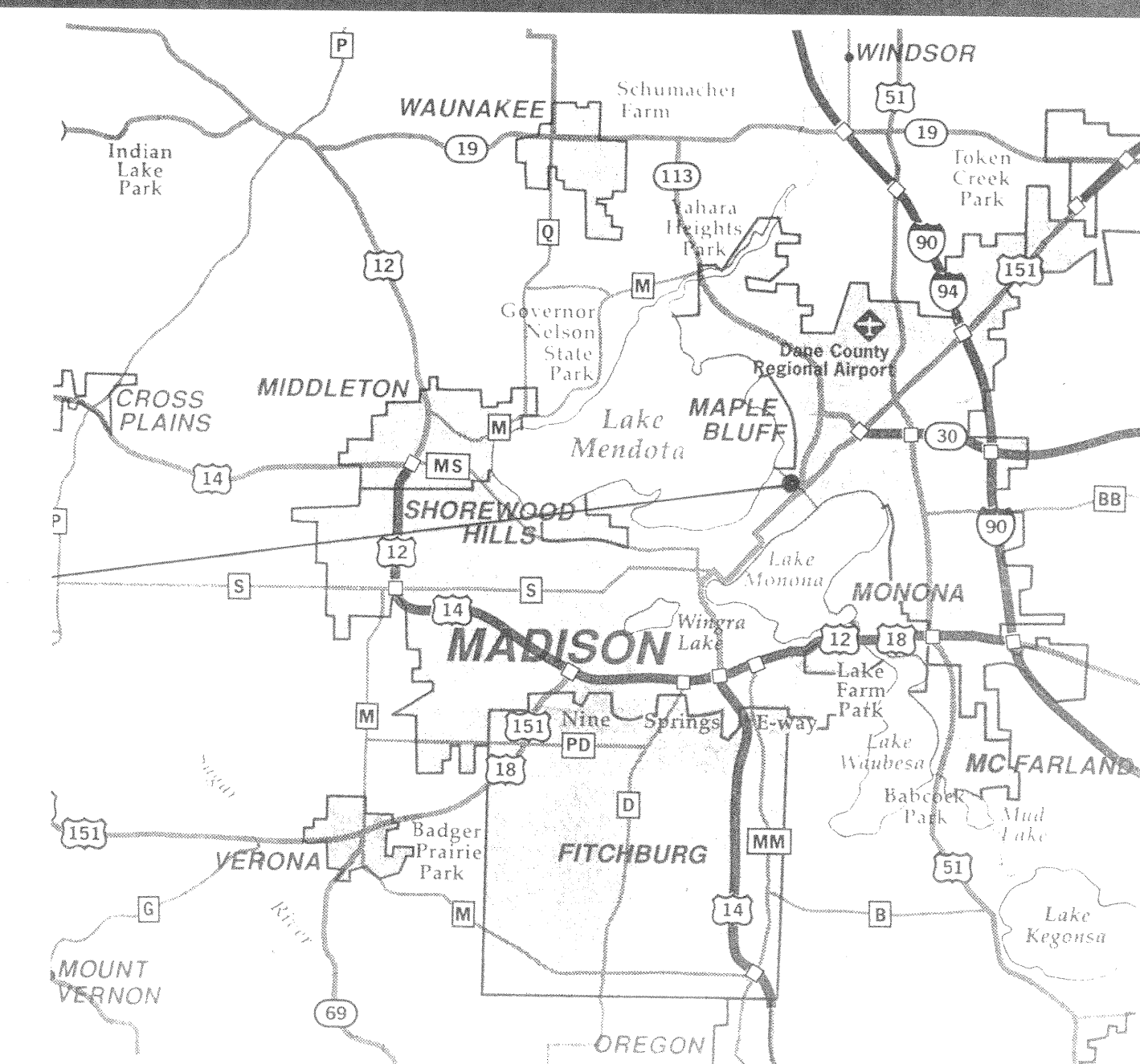


MATERIALS



LOCATION MAP

PROJECT LOCATION



Date Issuance/Revisions

Exterior Remodeling
of the
First Street Garage

City of Madison
Madison, Wisconsin

TITLE DRAWING

Project Number
9202601

Drawn By
RF

1.01

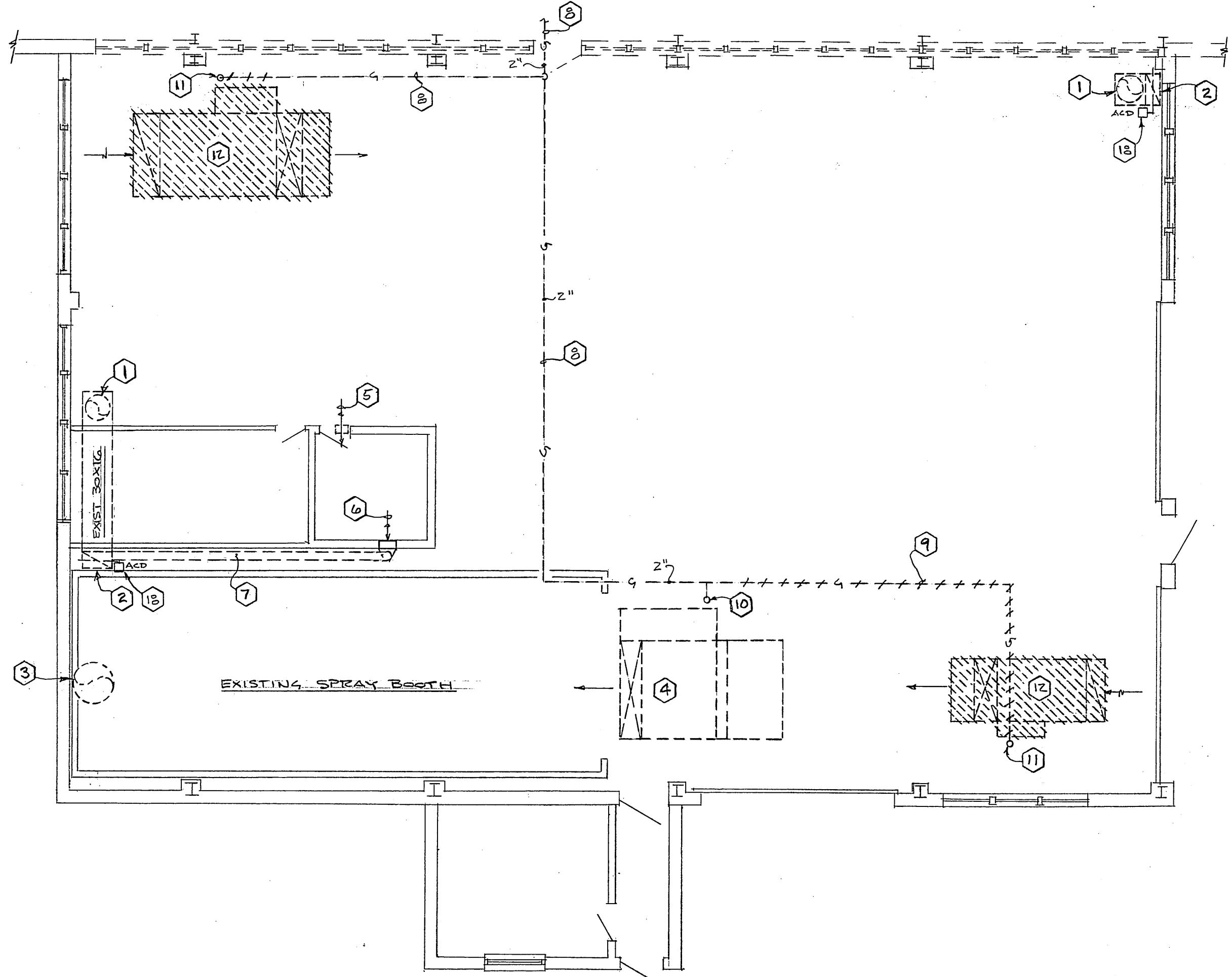
1994 - HV Refurb

GAS FIRED MAKE-UP AIR UNIT SCHEDULE									
UNIT NO.	CFM	% O.A.	HEATING			MOTOR H.P.	FAN R.P.M.	RATING IN/OUT BTU/HR	MANUFACTURER AND MODEL NO
			S.P.	EAT	FAT				
MUAU #1	4000	100	.3	-15	70	367,200	2	950	500,000/400,000 STERLING MUAH-500

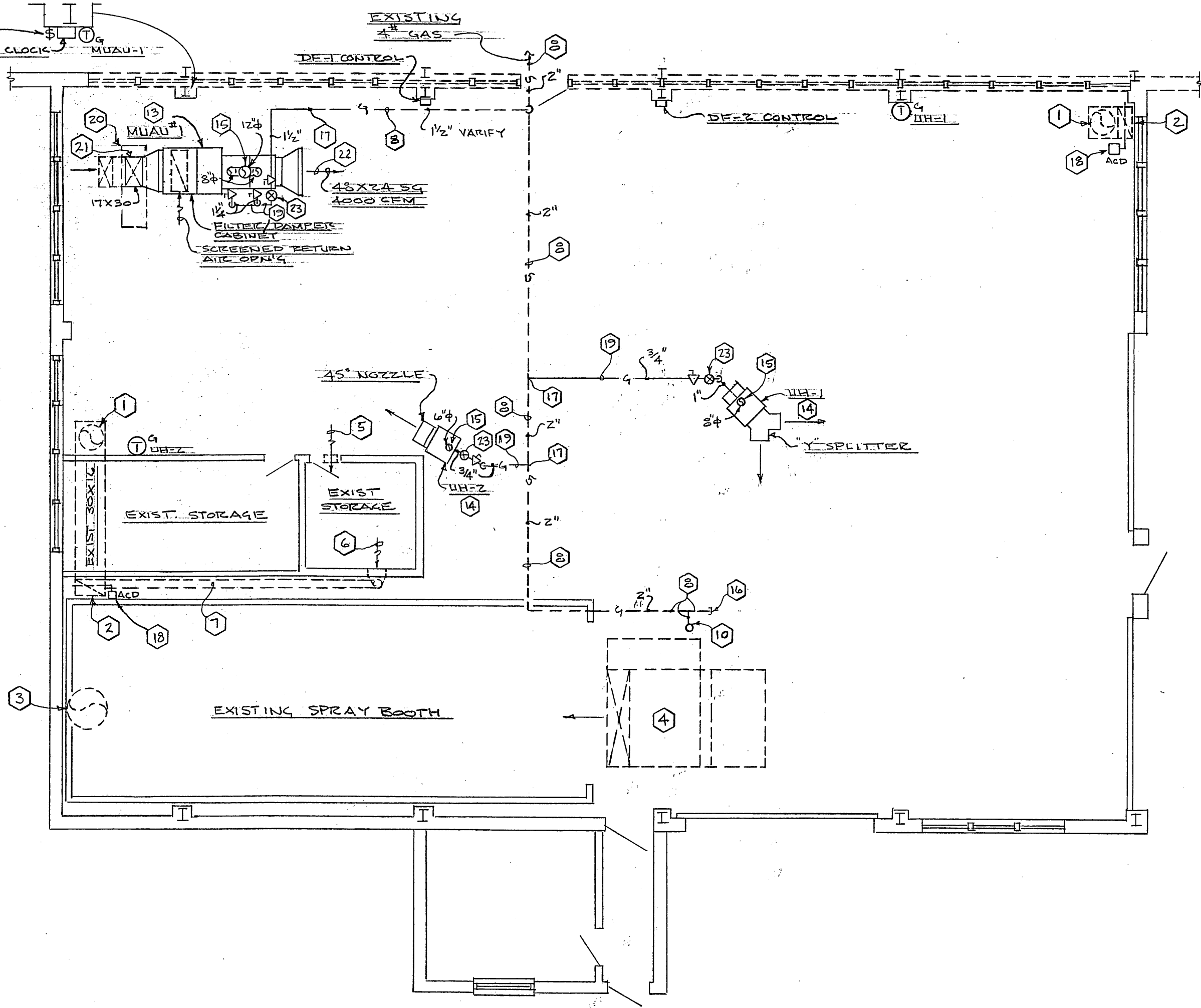
NOTES: 1. VOLTAGE = 240 VOLT, 3 PHASE.
2. Unit Burners & Heat Exchangers To Be 316 S/S.

GAS FIRED PROPELLER UNIT HEATER SCHEDULE							
UNIT NO.	AGA IN/OUT BTU/HR	CFM	APPROX. MOTOR HP	DRIVE	FAN TYPE	BURNER & HEAT EXCHANGER	MANUFACTURER & MODEL NO.
UH-1	200,000/160,000	2400	3/4	BELT	BLOW.	409 STAINLESS STEEL	STERLING QVB-200
UH-2	100,000/80,000	1480	1/20	DIRECT	PROP.	409 STAINLESS STEEL	STERLING QVF-100

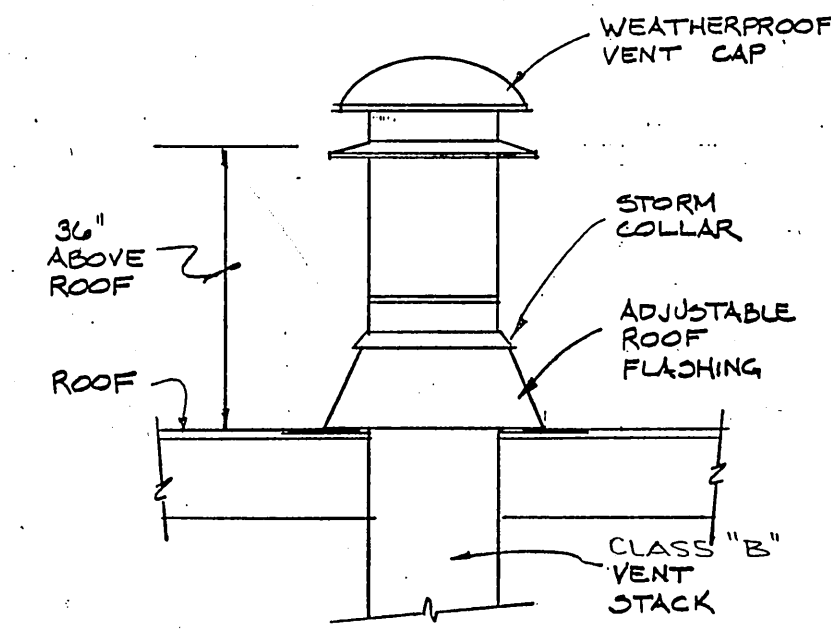
NOTES: 1. VOLTAGE = UH-1 = 115 VOLT, 1 PHASE.
UH-2 = 115 VOLT, 1 PHASE.



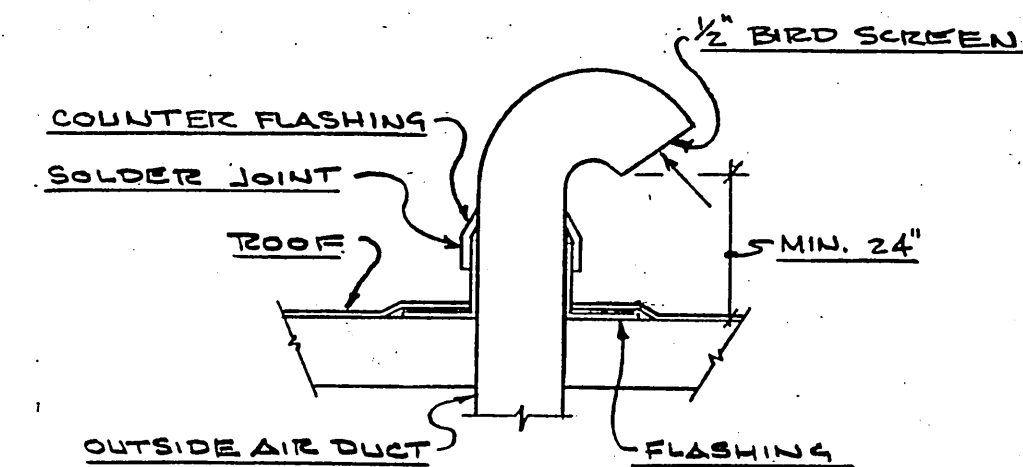
PARTIAL FLOOR PLAN - DEMOLITION
SCALE: 1/8" = 1'-0"



PARTIAL FLOOR PLAN - CONSTRUCTION
SCALE: 1/8" = 1'-0"



1 VENT THRU ROOF DETAIL
NO SCALE



2 OUTSIDE AIR INTAKE GOOSENECK THRU ROOF DETAIL
NO SCALE

MECHANICAL NOTES
1. All duct dimensions shown are finished inside dimensions.
2. Ductwork shown on plans is based on sheetmetal ductwork system and shall be installed per SMACNA standards.
3. All piping to be securely supported and individually suspended.
4. Heating contractor shall be responsible for providing suitable suspension for all unit heaters and ceiling hung make-up air unit.

SYMBOL SCHEDULE

	Supply or Outside Air Duct
	Return or Exhaust Air Duct
	Existing Ductwork Or Equipment To Remain
	Existing Ductwork Or Equipment To Be Removed
	Gas Piping (New)
	Gas Cock (New)
	Automatic (Motorized) Control Damper
	Thermostat (New) (G = GATE)
	Gas Pressure Reducer (4 lbs. to 6 in. W.C.)
	Gas Fired Make-Up Air Unit
	Gas Fired Unit Heater
	Desiccation Fan
	SUPPLY GRILLE

CONSTRUCTION NOTES

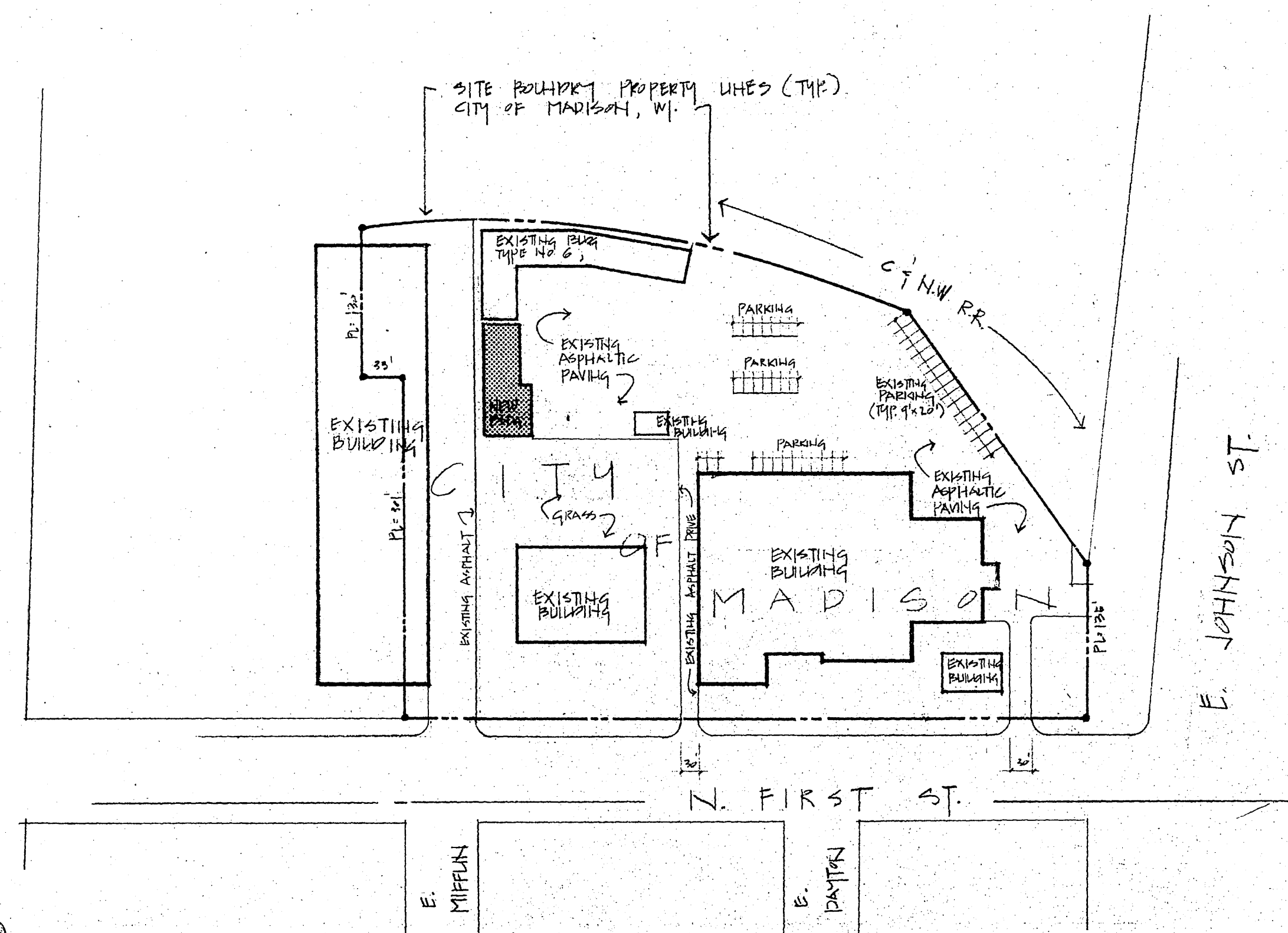
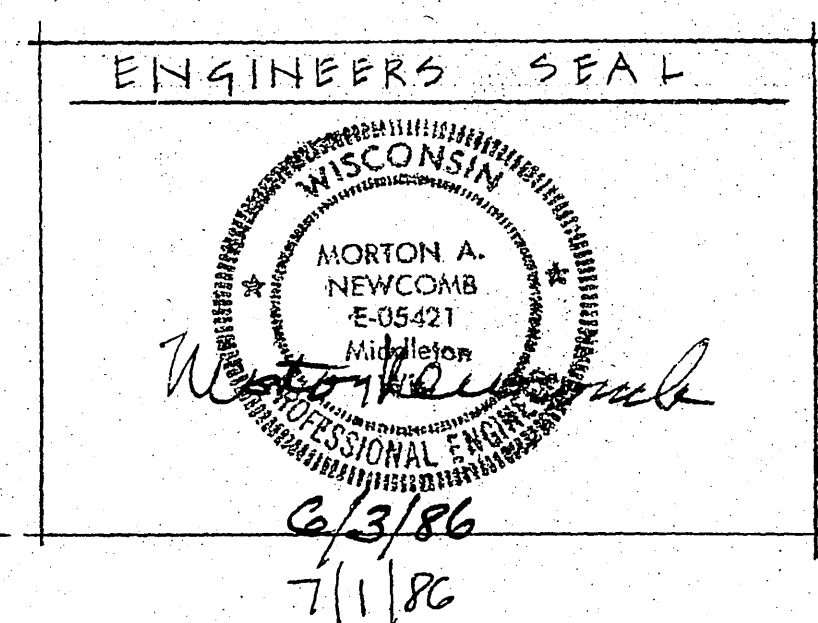
- Existing 26" round siphon ventilator on roof to remain.
- Existing 30" X 16" vent duct down to 30" X 16" opening 18" above floor. (2100 cfm)
- Existing 42" round spray booth exhaust fan and related controls and exhaust duct up thru roof to remain.
- Existing spray booth make-up air unit on roof and related ductwork, gas, electrical and controls are to remain.
- Existing dampered transfer opening above door is to remain.
- Existing dampered exhaust opening to remain.
- Existing 8" round vent duct to remain.
- Existing high pressure gas piping to remain.
- Remove existing high pressure gas piping.
- Existing high pressure gas piping up to existing make-up air unit on roof to REMAIN.
- Existing high pressure gas piping up to existing roof-top unit to be removed.
- Existing roof-top unit and related hardware shall be removed as follows:
Owner will disconnect and remove to below the roof the gas and electrical services, controls and ductwork. Roofing contractor will remove roof-top unit and related curb.
- New make-up air handling unit. Suspend unit tight to bottom of roof joists with suitable hangers. Interlock with the two existing siphon ventilator motorized control dampers.

- New gas fired unit heater. Suspend tight to bottom of roof joists with suitable hangers.
- Class "B" vent up thru roof.
- Cap existing gas pipe.
- Connect new gas pipe to existing.
- Existing motorized control damper to remain. Interlock with new MUAU #1.
- New gas piping.
- Existing return opening thru roof.
- New 17 X 30 outside air intake duct up thru roof to gooseneck on roof. See gooseneck detail this sheet.
- Supply Grille shall be Carnes Model RSDAH or approved equal with rubber gasket and metalescent aluminum finish.
- New gas pressure regulator.

1996 - Storage Building

ROBERT NEWCOMB CO. INC.
MADISON, WI.

SHEET INDEX	
SITE PLAN	1
PLAN & FND PLAN w/ SECTIONS	2
ELEVATION	3
PAVING SECTION & STRUCTURAL DETAILS	4

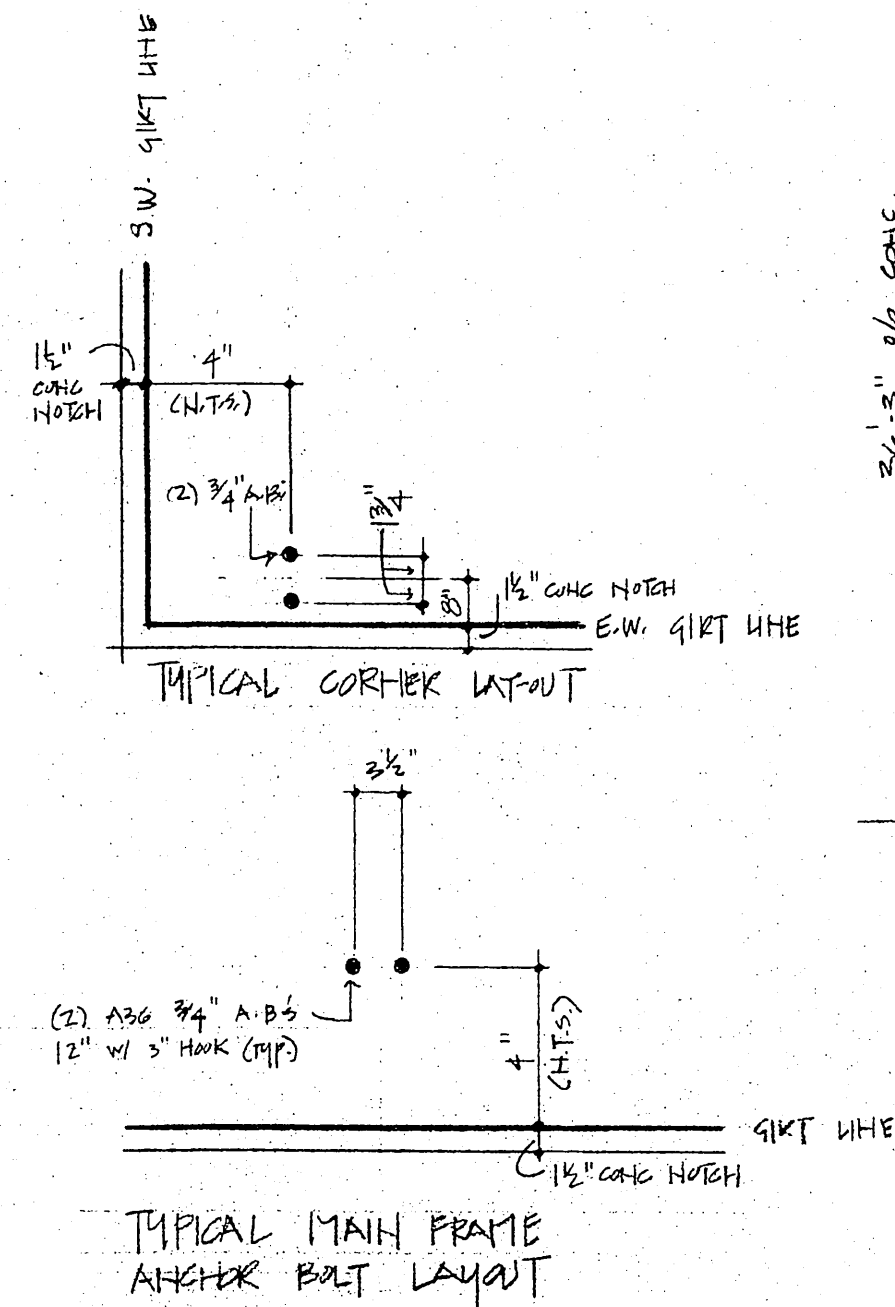
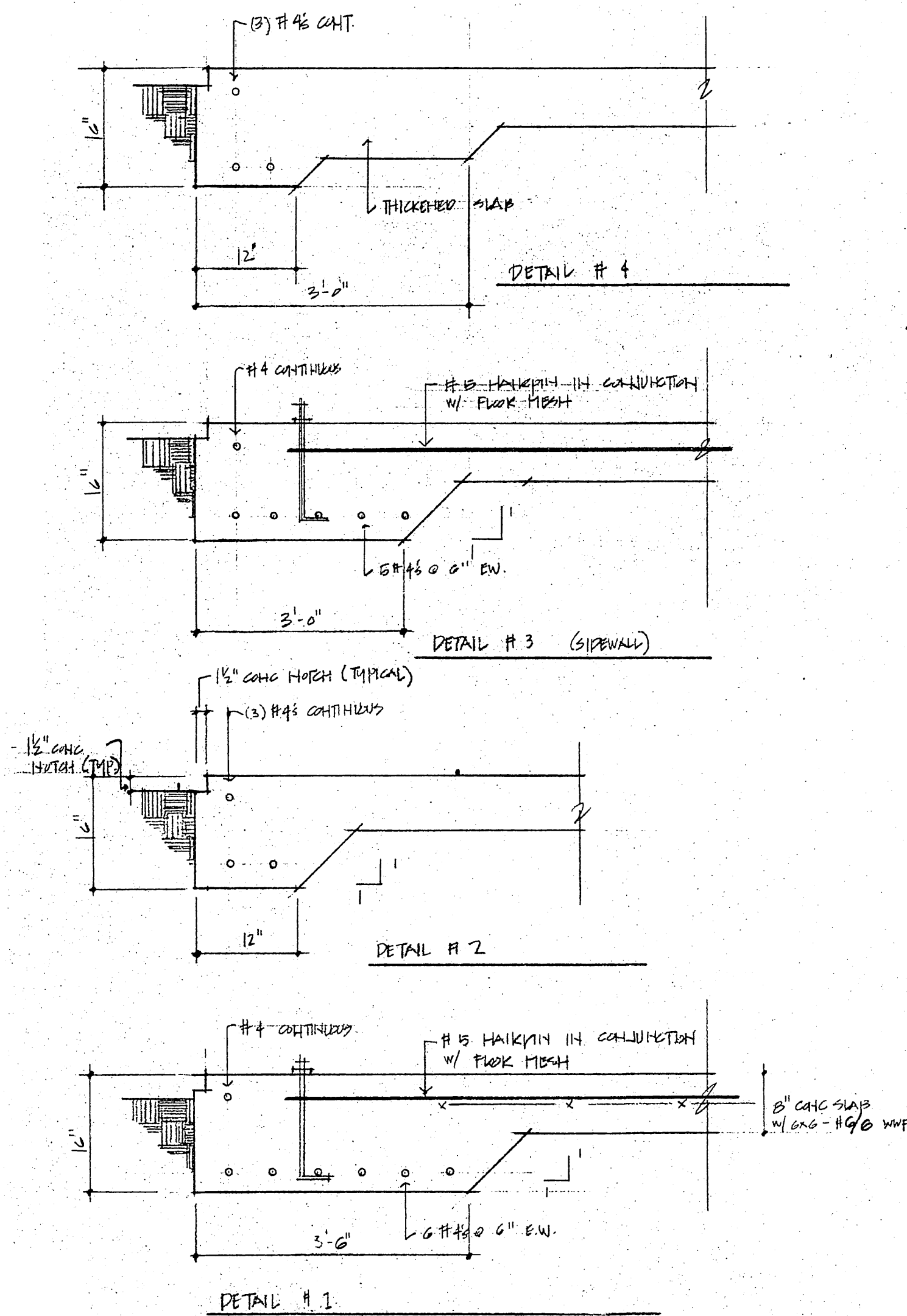


BUILDING PLANS
Conditionally
APPROVED
DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS
Clark
SEE CORRESPONDENCE
JUL 22 1986
86-06-0132-B

SITE PLAN (REVISED 6/27/86)

SCALE 1" = 100'-0"

NOTE: ADJOINING EXISTING BUILDING 6000 S.F. + PROPOSED BUILDING 3972 S.F. = 9972 S.F. TOTAL
NOTE: ADJOINING EXISTING TYPE HA C MTL BLDG IS: MTL BLDG SLAB ON GRADE W/ NO INTERIOR OFFICE, NO STAIRS,
NO RAMP, NO WOOD CONSTRUCTION, NO MACHINERIES AND IS OTHERWISE OPEN STORAGE SPACE. ALL BLDG.
COMPONENTS ARE SUCH AS TO SATISFY TYPE HA C CONSTRUCTION.



DESIGN OF HANKINS

MAX THIRST = 6 KIPS

USE (2) # 5 BARS $f_t = 5(f_t) = 5(6) = 30$

$A_{sreq} = \frac{6}{30} = .2 \text{ in}^2$

$.2 \text{ in}^2 < .02 \text{ in}^2 \text{ PRV.}$

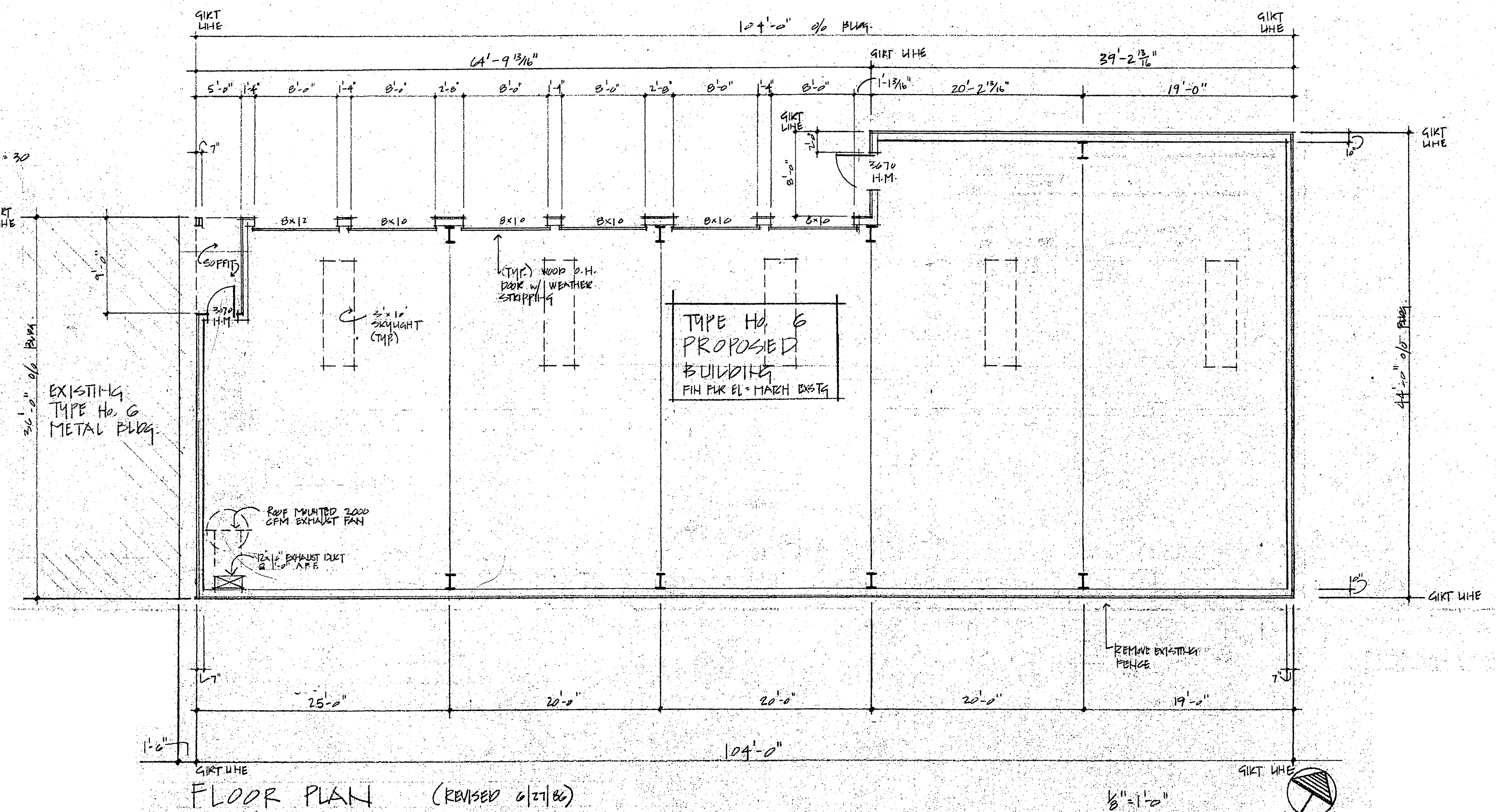
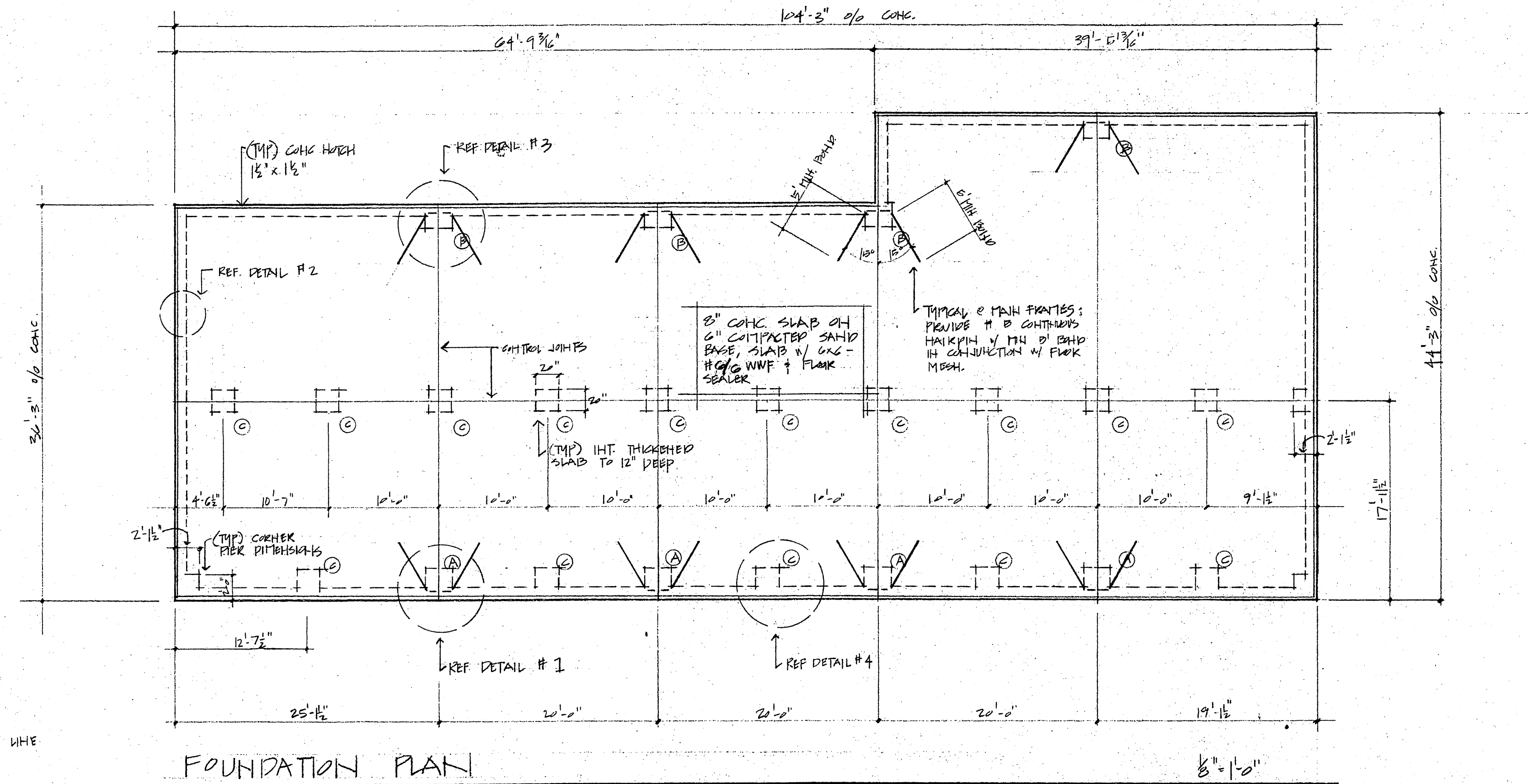
$\therefore \text{O.K. USE (2) \# 5 BARS}$

$L_d = .04(.71)(6000) / \sqrt{3000} = 13.5"$

$L_d = .04(.608)(6000) = 15"$

$\therefore \text{USE 14 CALCULATION W/ FVK MECH}$

(2) # 5 @ 5'-0" BATH LENGTH



NOTE: 6-25-86 REVISED DIMENSIONS

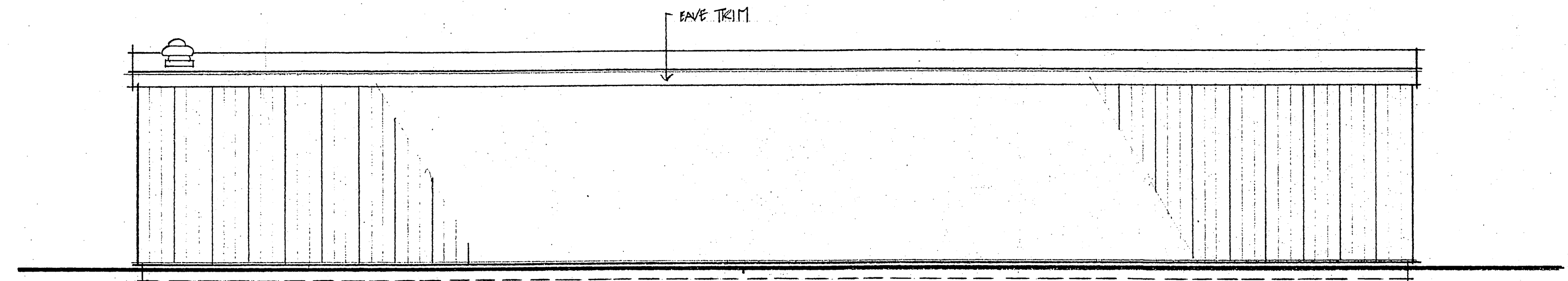
REPORT NEWCOMB CO INC.
2022 INDEX RD
MADISON, WI 53713

MADISON POLICE STORAGE BLDG.
MADISON, WI

DATE
5/30/86
SHEET #
2

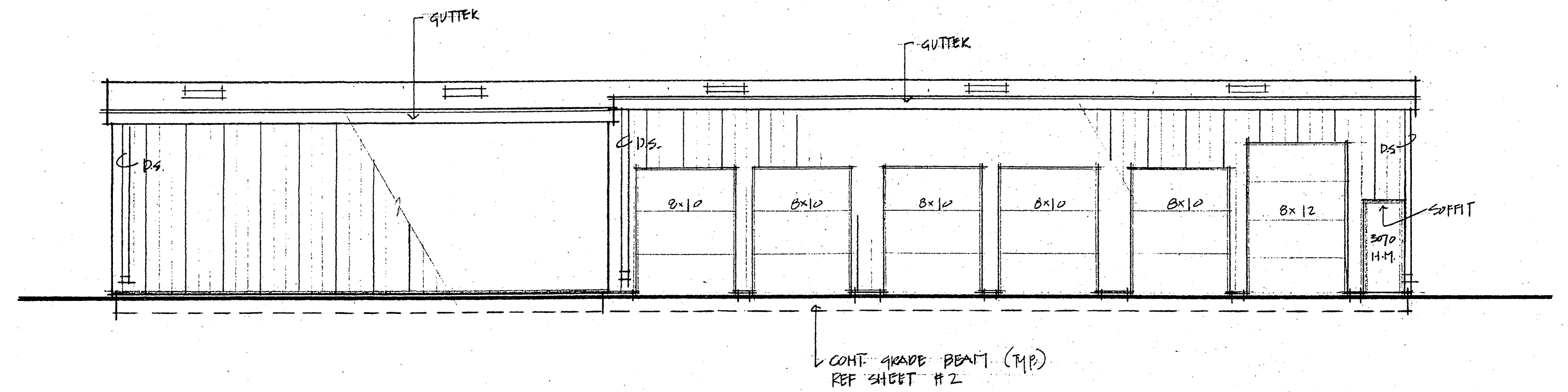
SOUTHEAST ELEVATION

1/8" = 1'-0"



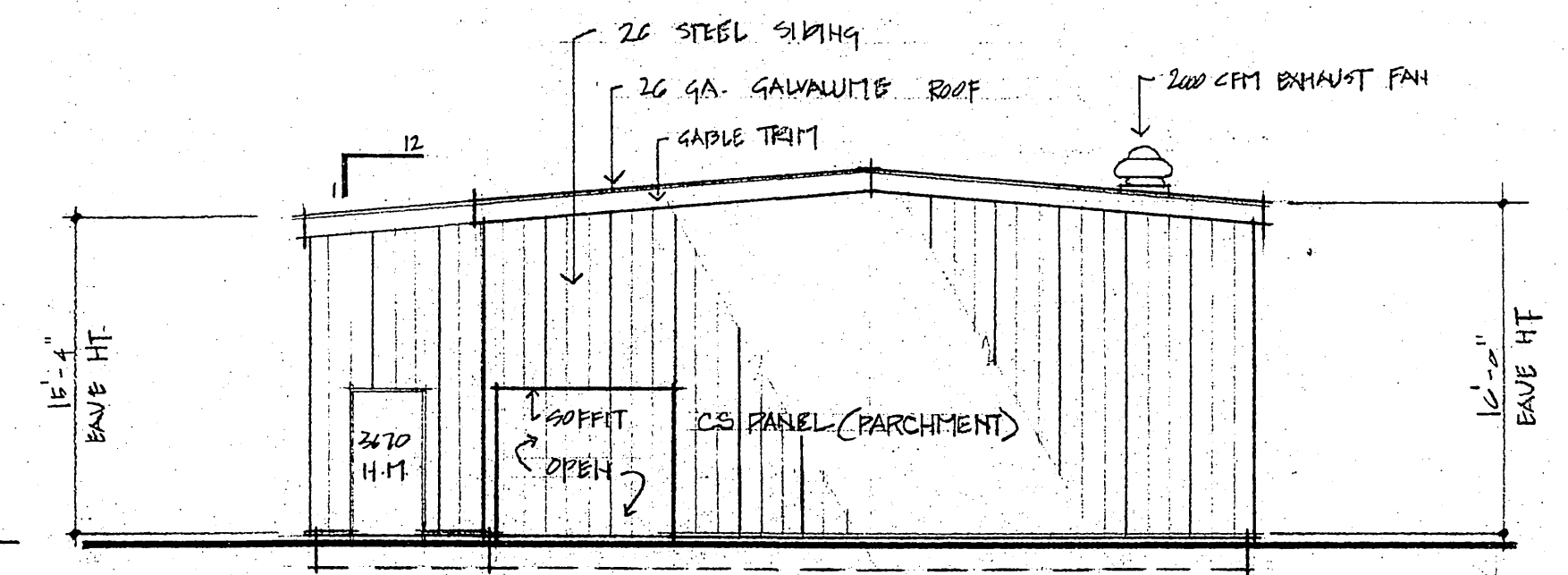
NORTHWEST ELEVATION

1/8" = 1'-0"



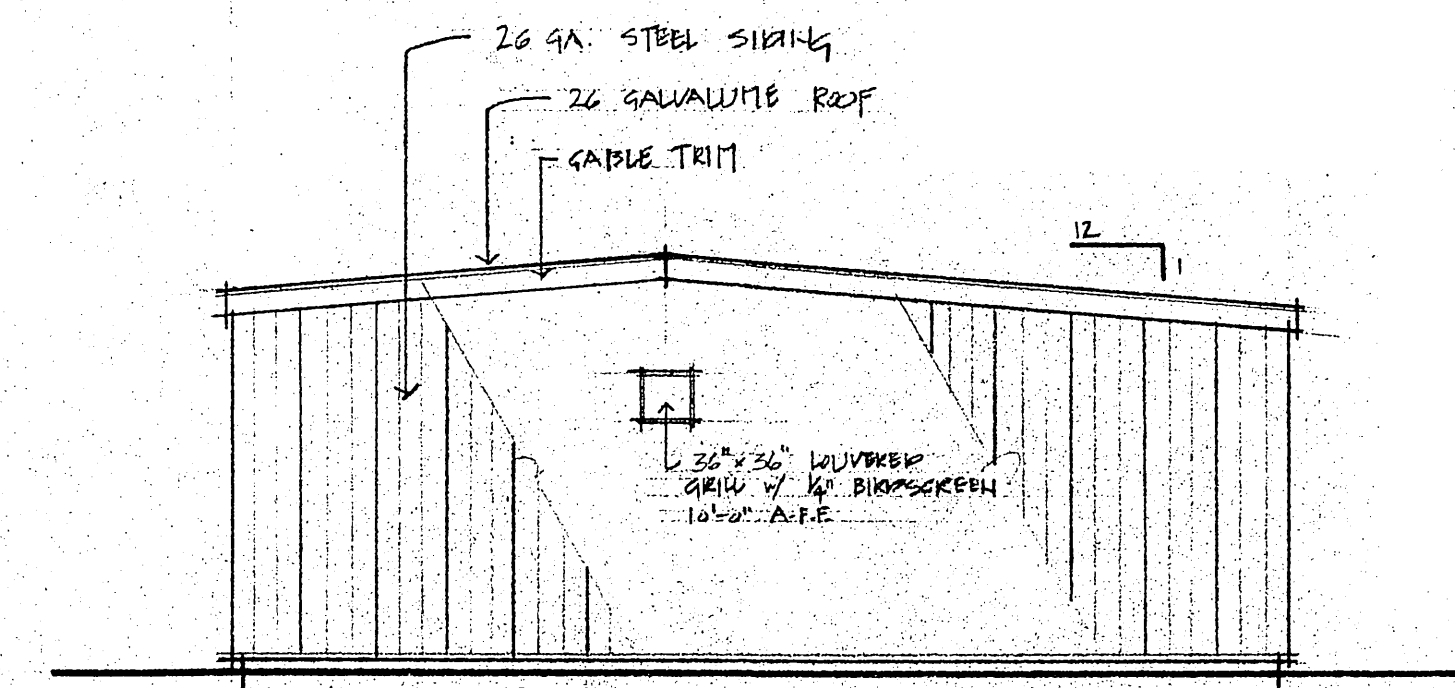
SOUTHWEST ELEVATION

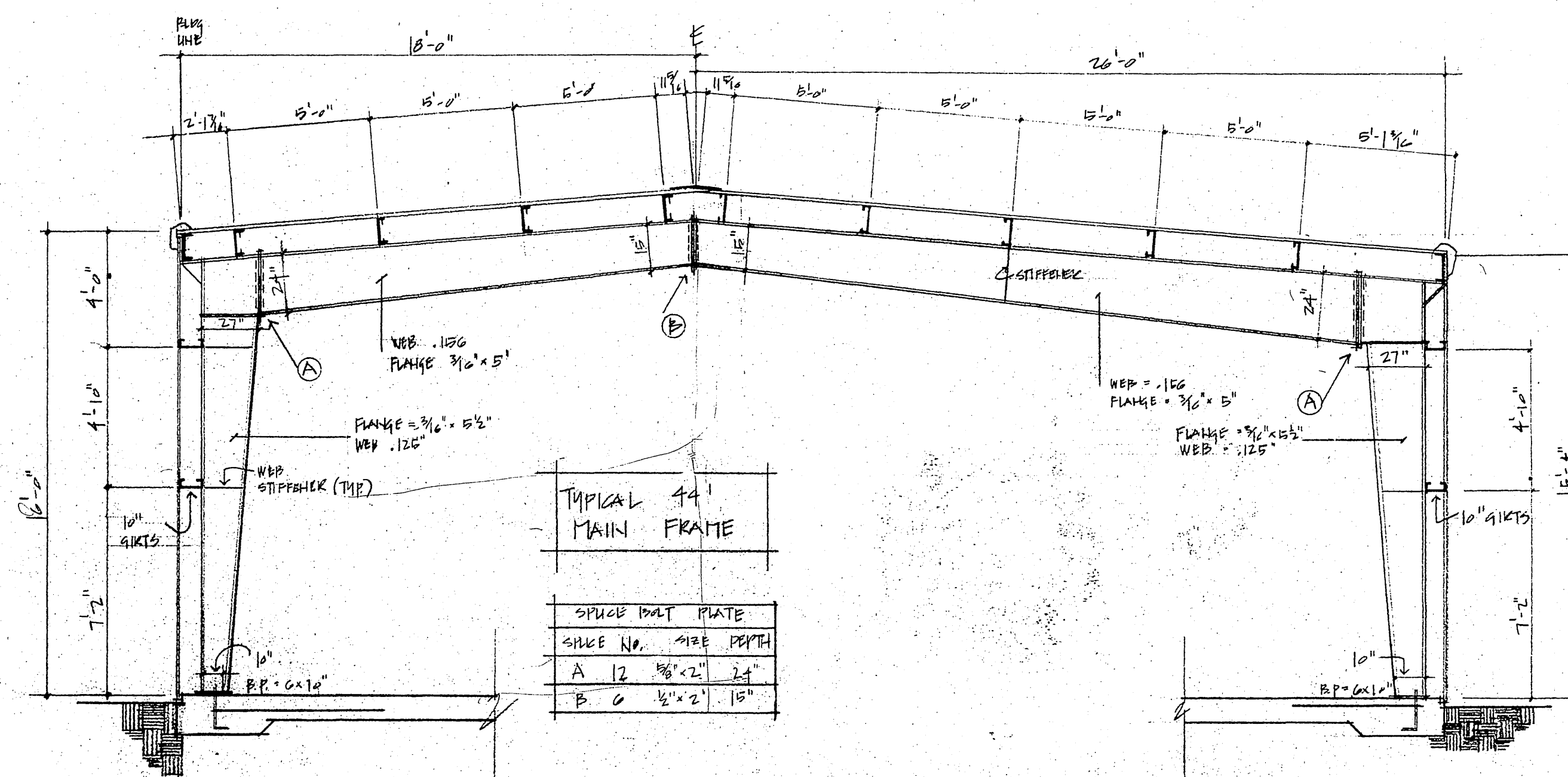
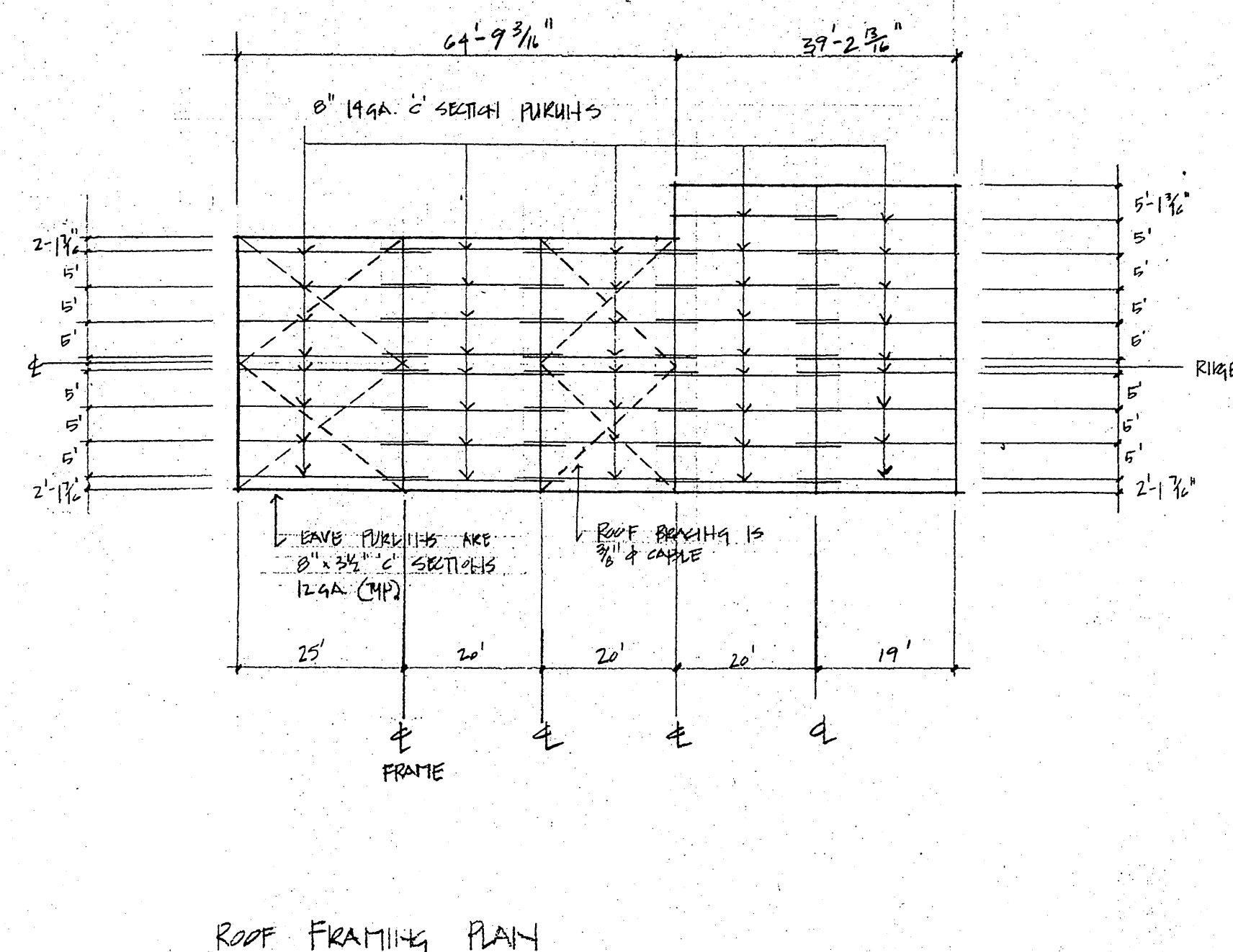
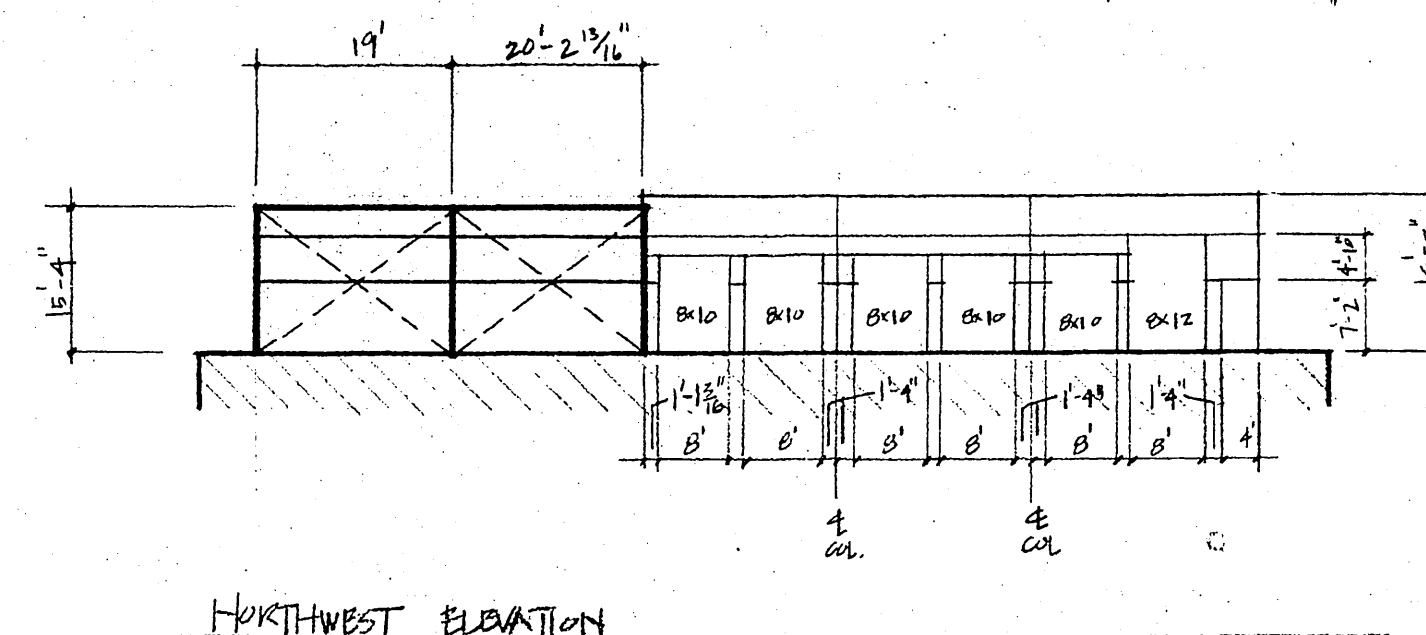
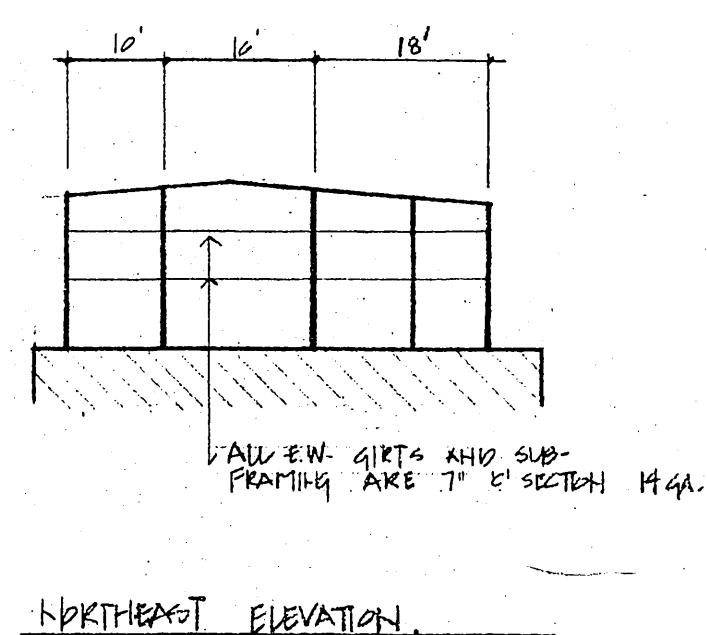
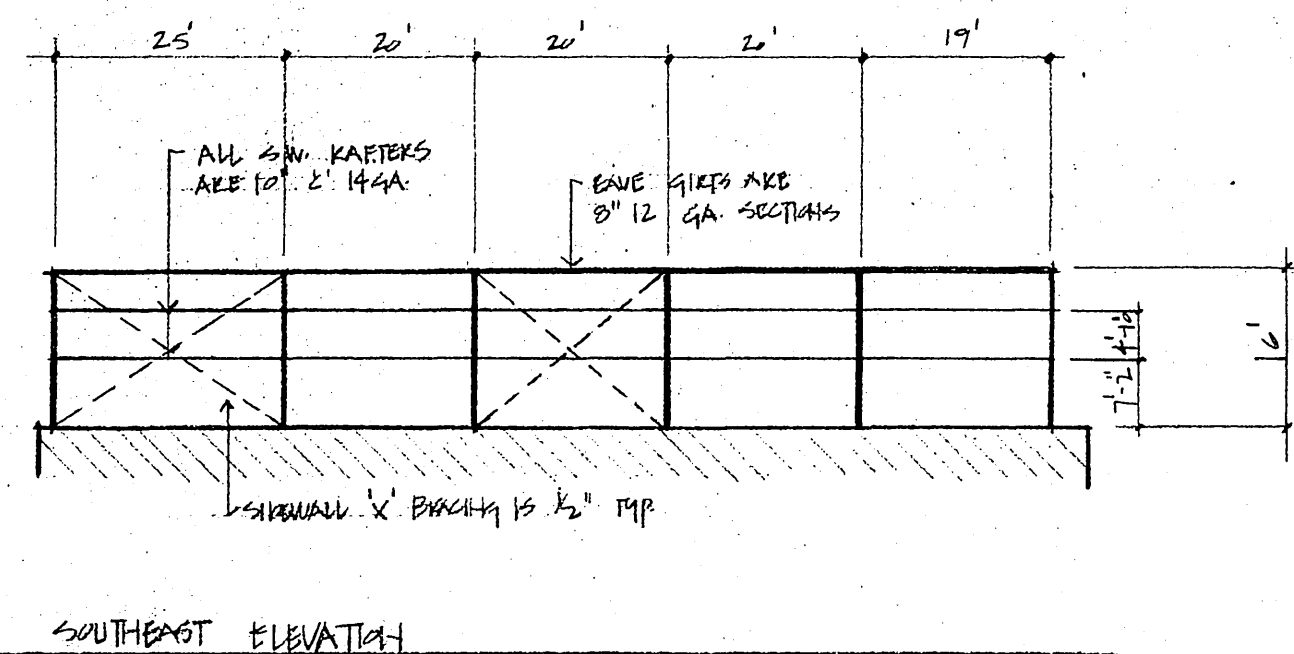
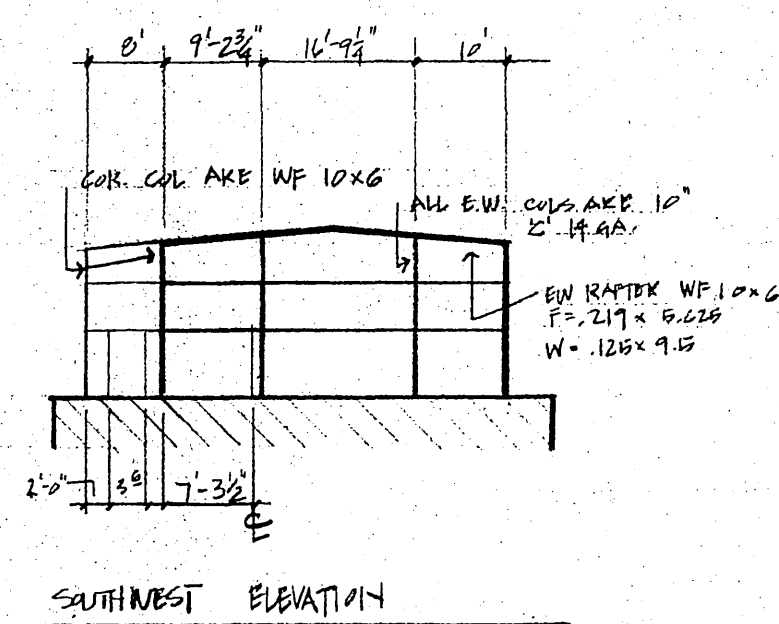
1/8" = 1'-0"



NORTHEAST ELEVATION

1/8" = 1'-0"





SPACE BOAT PLATE			
SPACE NO.	SIZE	DEPTH	
A 12	$\frac{5}{8}'' \times 2''$	2 1/2"	
B 6	$\frac{1}{2}'' \times 2''$	15"	

CHIEF INDUSTRIES CLEAR SPAN RIGID FRAME

DHLK APPROVAL # 85009-M

NOTE:

36' MAIN FRAME SYMMETRICAL C & L

DEPTH OF BASE PLATE = 10" COL WEB = .125", COL FLANGE = $\frac{3}{16}$ " x 5 1/2"

DEPTH @ HAUNCH = COL = 25", RAFTER = 20" RAFTER WEB = .156", RAFTER FLANGE = 3/16" x 5"

DEPTH @ RIGG = 14"

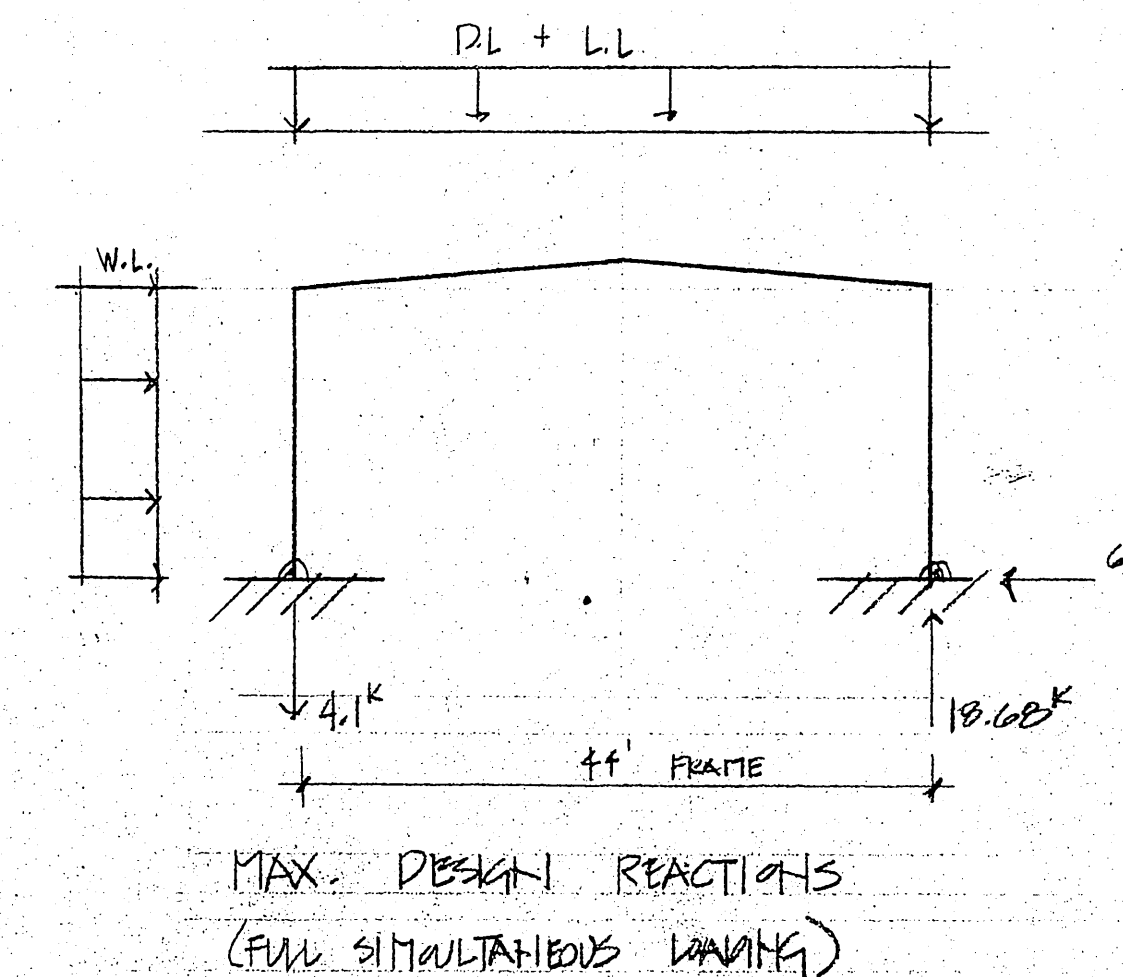
SURGE BOLT PLATE (A) 6 $3/4"$ x $2 1/2"$ @ 20" DEEP (B) 6 $5/8"$ x 2 @ 14" DEEP B.P. = 6" x 10"

COL WEB = .125", COL FLANGE = $\frac{3}{16}$ " x $5\frac{1}{2}$ "

COL WEB = .125", COL FLANGE = 1/4" x 62"
RAFTER WEB = .156", RAFTER FLANGE = 3/16" x 5"

LOADS

ROOF SHEETS	1 PSF
PURLINS	1 PSF
RAFTERS	2 PSF
SERVICE LOAD (M.)	5 PSF
LIVE LOAD	30 PSF
WIND LOAD	20 PSF



NOTE: 6-25-86 REVISED DIMENSIONS

ROBERT HENKOT 13 CO. 11 TC.

ROBERT HENKOT 13 00

MADISON POLICE DEPT FILE

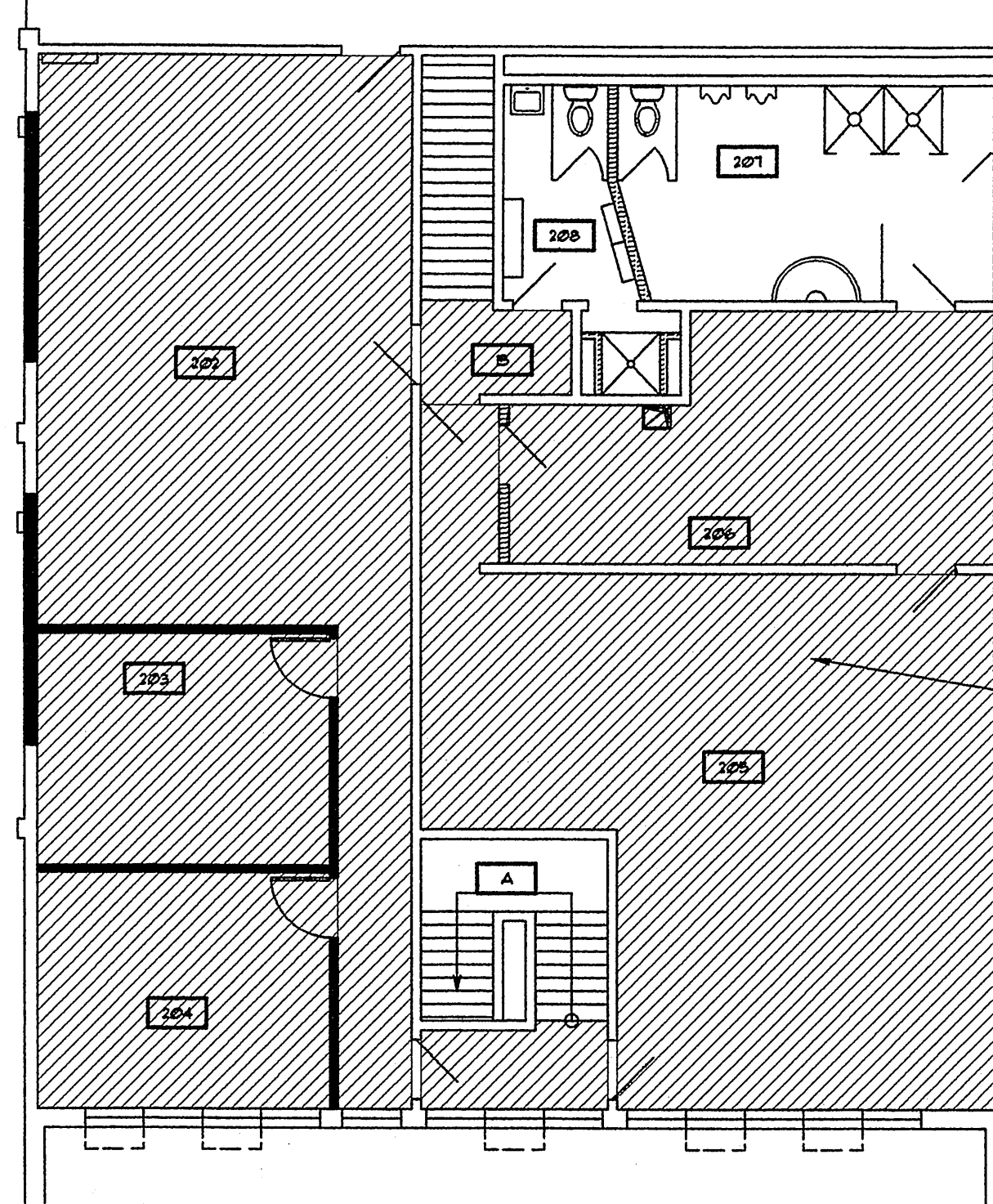
Fredrickson

PA	6	SH
----	---	----

41

4

1997 - Fleet Remodel



AREAS OF NEW RUBBER TILE FLOORING AND BASE WHERE REQUIRED ARE SHOWN HATCHED

2ND FLOOR AREAS OF NEW FLOORING

NO SCALE NOTE: NEW FLOORING IN ROOMS 103 AND 106 ON FIRST FLOOR ALSO

NEW DOORS:

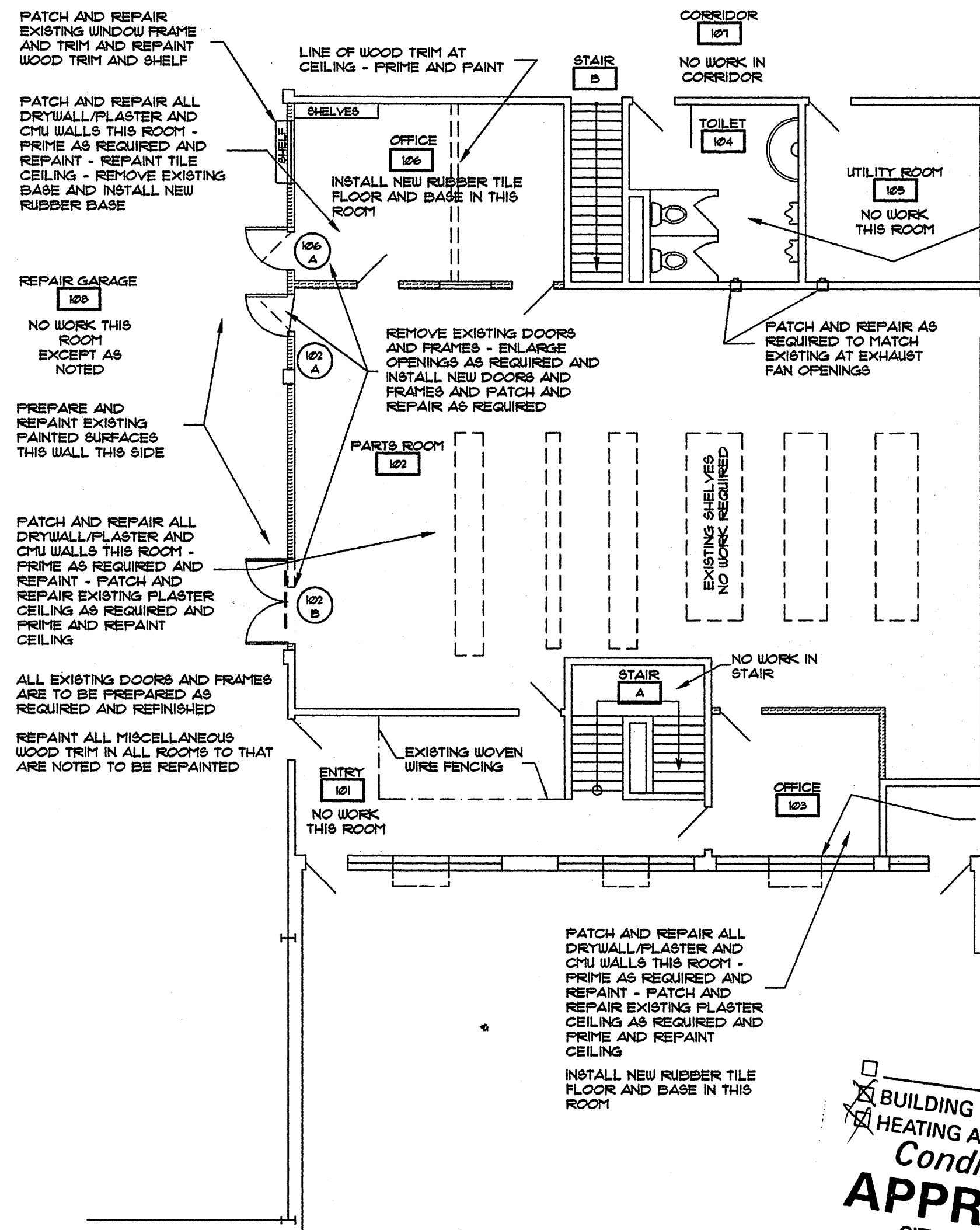
DOOR 102 A
NEW 3'-0" x 6'-8" HOLLOW METAL WITH 1/4" TEMPERED PLATE GLASS HALF LIGHT AND WELDED H1 FRAME
HARDWARE: LOCKSET, BUTTS, CLOSER WITH HOLD OPEN AND STOP

DOOR 102 B
NEW PAIR 3'-0" x 6'-8" HOLLOW METAL WITH 1/4" TEMPERED PLATE GLASS HALF LIGHT IN ONE DOOR AND INTEGRAL ASTRAGAL OTHER DOOR WITH WELDED H1 FRAME
HARDWARE: LOCKSET, TOP AND BOTTOM BOLTS ONE LEAF, BUTTS, CLOSER WITH HOLD OPEN AND STOP

DOOR 106 A
NEW 3'-0" x 6'-8" HOLLOW METAL WITH 1/4" TEMPERED PLATE GLASS HALF LITE HALF AND WELDED H1 FRAME
HARDWARE: LOCKSET, BUTTS, CLOSER WITH HOLD OPEN AND STOP

DOOR 203 A
NEW 3'-0" x 6'-8" SC WOOD WITH 1/4" TEMPERED PLATE GLASS HALF LITE HALF AND WELDED H1 FRAME
HARDWARE: LOCKSET, BUTTS, AND STOP

DOOR 204 A
NEW 3'-0" x 6'-8" SC WOOD WITH 1/4" TEMPERED PLATE GLASS HALF LITE HALF AND WELDED H1 FRAME
HARDWARE: LOCKSET, BUTTS, AND STOP



2ND FLOOR AREAS OF NEW LAYIN CEILINGS

NO SCALE

NOTE THAT EXISTING OPENINGS TO BE FILLED ARE APPROXIMATELY 4'-0" HIGH - FIELD VERIFY EXACT DIMENSION

ALL NEW SUSPENDED CEILING SHALL BE HELD AS CLOSELY AS POSSIBLE TO THE HEIGHT OF THE EXISTING CEILING

REMOVE EXISTING WALL CABINET TO REPAIR WALL AND REINSTALL AFTER PAINTING IS COMPLETE

REMOVE EXISTING GLASS WINDOWS AND SLIDING GLASS PANELS AND WOOD FRAMES - IN FILL OPENINGS WITH PARALLEL ROWS OF METAL STUDS AND DRYWALL TO MATCH WIDTH OF CMU WALL - FILL ALL SPACES WITH ACOUSTICAL INSULATION

REMOVE VAT FLOORING AND SPLINE AND PLASTER CEILING IN OFFICE 202
INSTALL NEW 2x2 SUSPENDED ACOUSTIC CEILING AT HEIGHT OF EXISTING CEILING (4'-8" 1/2") AND NEW RUBBER TILE FLOORING - IN ROOM 202 - TUCK POINT MASONRY WALLS WHERE REQUIRED AND PRIME NECESSARY AREAS AND REPAIR ALL WALL SURFACES EXCEPT GLAZED TILE AREAS

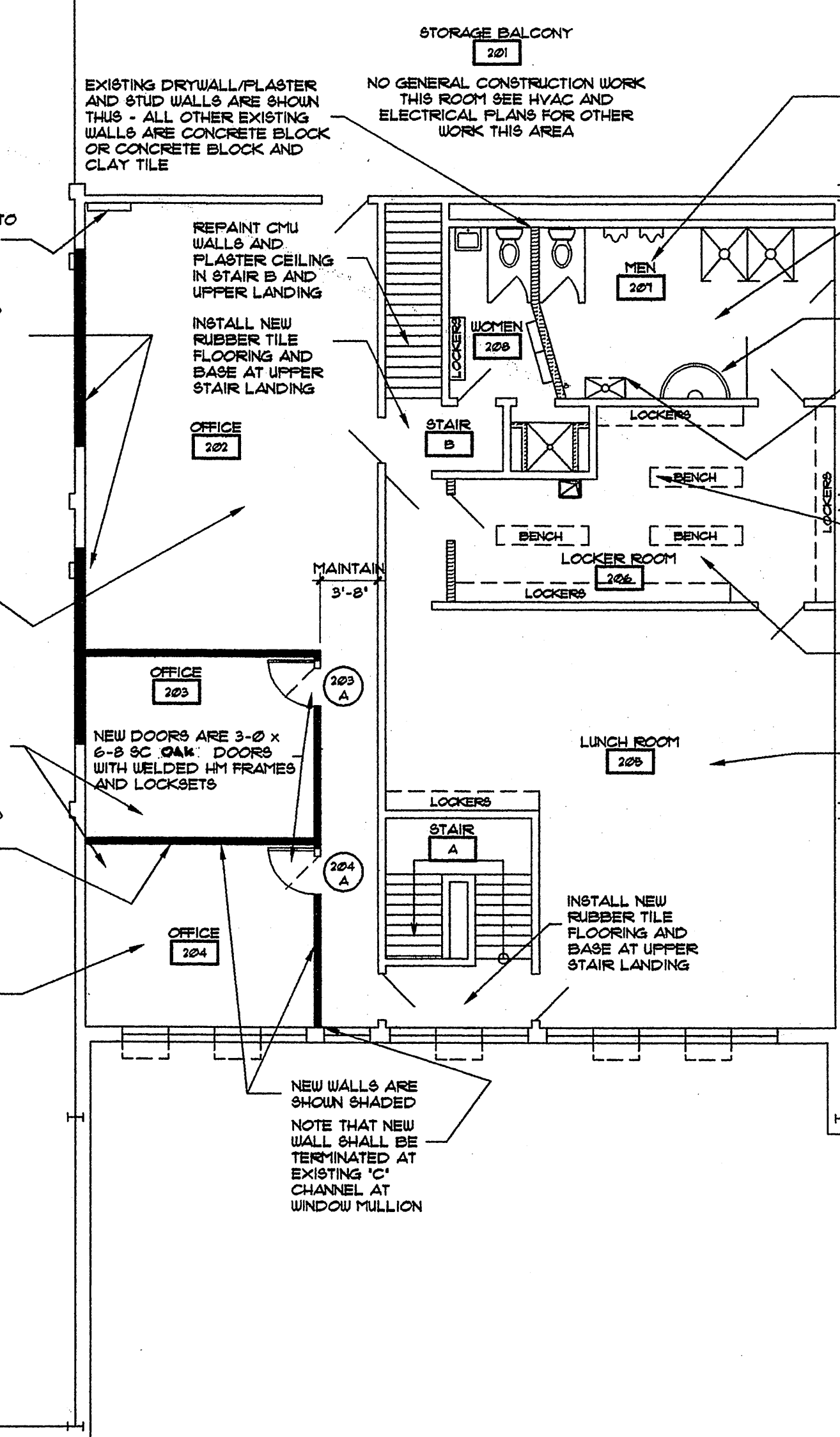
REMOVE DEMOUNTABLE PARTITIONS AND DOORS AND VAT FLOORING AND SPLINE AND PLASTER CEILING IN OFFICES 203 AND 204

CONSTRUCT NEW 3 5/8" METAL STUD AND 5/8" DRYWALL PARTITIONS TIGHT TO ROOF DECK ABOVE - SEE DETAIL FOR ACOUSTICAL TREATMENT - MATCH DIMENSIONS OF EXISTING OFFICES

INSTALL NEW 2x2 SUSPENDED ACOUSTIC CEILING AT EXISTING CEILING HEIGHTS AND NEW RUBBER TILE FLOORING IN ROOMS 203 AND 204 CORRIDOR NORTH OF OFFICES - TUCK POINT MASONRY WALLS WHERE REQUIRED AND PRIME NECESSARY AREAS AND REPAIR ALL WALL SURFACES EXCEPT GLAZED TILE AREAS

STAIN AND SEAL NEW WOOD DOORS AND PAINT METAL DOOR FRAMES

PATCH AND REPAIR EXISTING DOORS AND FRAMES AS REQUIRED AND REPAIR ALL DOORS AND FRAMES THIS FLOOR

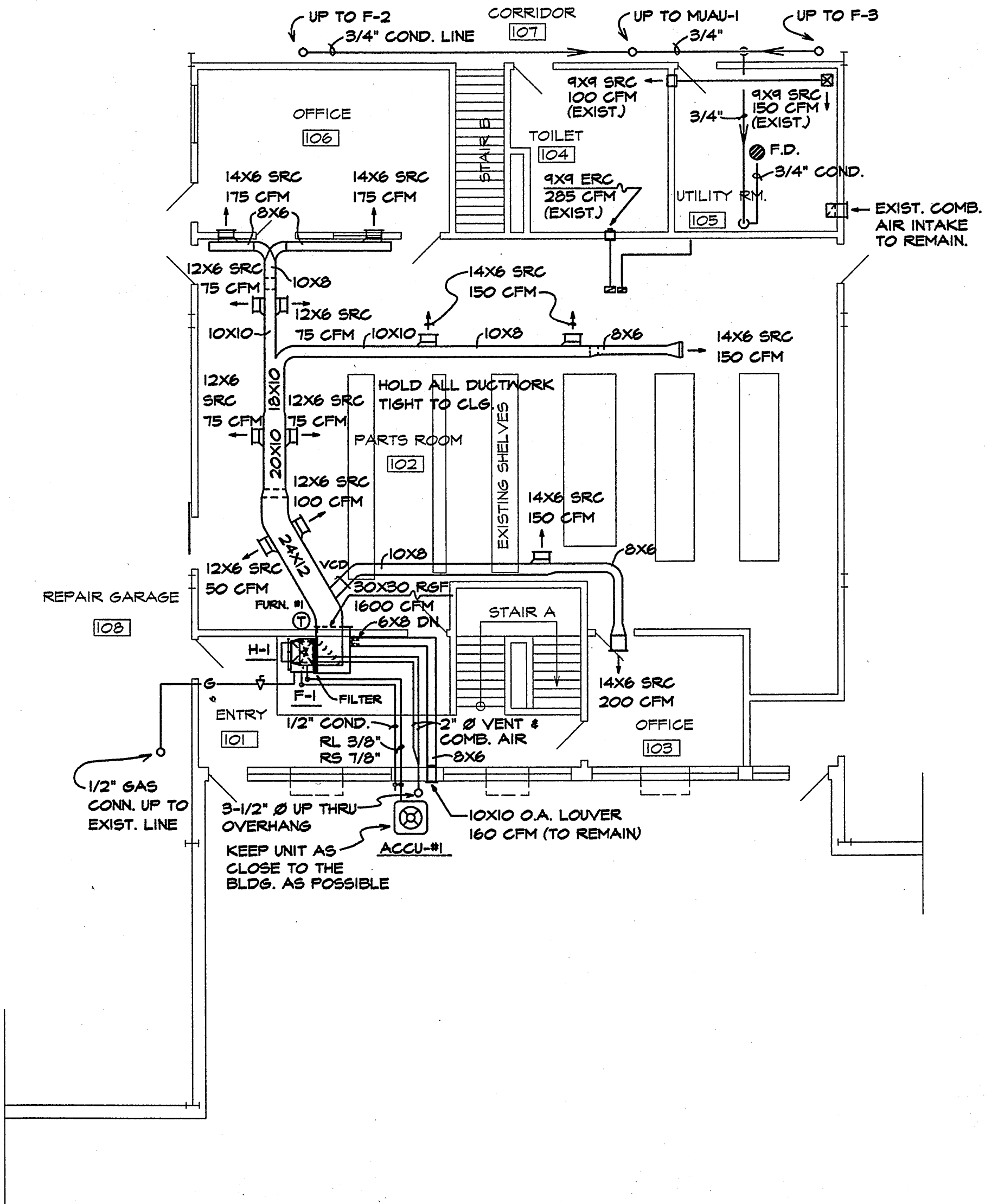


GAS FIRED MAKE-UP AIR UNIT/EVAP. SCHEDULE										
UNIT NO.	SERVES ROOM	AIR CFM	% O.A.	EXT. S.P.	HEATING			MOTOR H.P.	FAN APPROX. RPM	RATING IN/OUT MBH/HR
					E.A.T. F.	L.A.T. F.	TOTAL			MANUF. MODEL/ EVAP.
MJAU #1	104, 105, 206-208	1000	100	0.40	-15	78	92,225	1/4	650	125/41
REZTOR SCE 125 CARRIER CD3A024										
NOTES: 1. VOLTAGE = 115 VOLT, SINGLE PHASE. 2. REQUIRES E-3 S/S HEAT EXCHANGER AND BURNERS, TOT. ENCLOSED MOTOR, 2-STAGE BURNER AND STAT, SUMMER-WINTER S/N, 2" FILTER RACK, ELECTRONIC IGNITION AND INSULATED BLOWER CABINET. 3. MOUNT WHERE SHOWN ON THE DRAWINGS ON SUITABLE ANGLE IRON STAND.										

AIR COOLED CONDENSING UNIT SCHEDULE											
UNIT NO.	SERVES	SENS. CAP. MBH	TOTAL CAP. MBH	AMB. AIR TEMP.	S.D.T. F.	MIN. COIL FACE AREA SQ. FT.	REFRIG. TYPE	KW	MIN. SEER	MANUF. & MODEL	VOLTS & PHASE
ACCU-1	F-1	32.7	46.8	45	---	15	22	5.0	10	CARRIER 38CKN048	208/1
ACCU-2	F-2	20.1	28.0	45	---	7	22	3.2	10.8	CARRIER 38CKN030	208/1
ACCU-3	F-3	20.0	28.5	45	---	7	22	3.2	10.8	CARRIER 38CKN030	208/1
ACCU-4	MJAU-1	15.7	22.2	45	---	7	22	2.5	10.8	CARRIER 38CKN024	208/1
NOTES: 1. PROVIDE ALL UNITS WITH MOTOR MASTER LOW AMBIENT CONTROLS.											

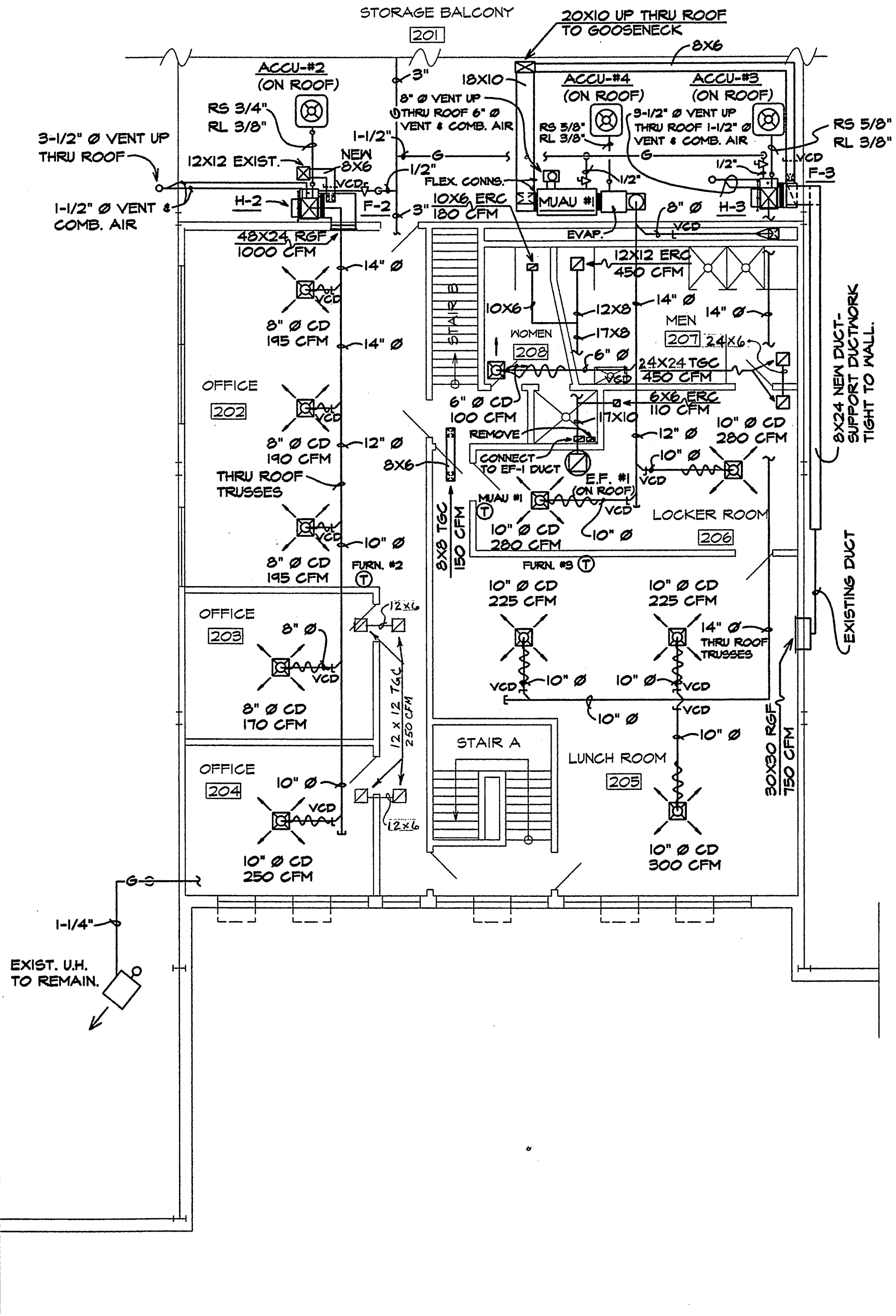
FAN SCHEDULE						
FAN NO.	CFM REQ'D.	EXT. S.P. INCHES	TIP SPEED	MOTOR H.P.	RPM	MANUF. & MODEL
EF - 1	1,025	0.125	3100	1/6	950	H.O.A.-AUTO ON OCCUPIED CYCLE
NOTE: VOLTAGE = 115 VOLT, 1 - PHASE.						

GAS FIRED FURNACE/A.C. UNIT SCHEDULE											
UNIT NO.	SERVES ROOM	AIR CFM	% O.A.	EXT. S.P.	HEATING			COOLING			MOTOR H.P.
					E.A.T. F.	L.A.T. F.	TOTAL	E.A.T. F.	L.A.T. F.	TOTAL	
FURN. #1	101-106	1600	10	0.54	61.5	86	42,532	67.5/61.5	62.5/60.5	31,440	3/4
FURN. #2	201-204	1000	10	0.53	61.5	86.5	27,082	67.5/61.5	62.5/60.5	23,400	1/3
FURN. #3	205	750	15	0.6	53	84.4	24,621	62.5/68.2	58.5/56.8	28,013	1/5
NOTES: 1. VOLTAGE = 115 VOLT, SINGLE PHASE.											



FIRST FLOOR PLAN - MECHANICAL

SCALE: 1/8" = 1'-0"



SECOND FLOOR PLAN - MECHANICAL

SCALE: 1/8" = 1'-0"

HUMIDIFIER SCHEDULE				
HUMID. NO.	SERVES	#H2O/HR AT 120 DEG. PLENUM TEMP.	SYSTEM CFM	MANUF. & MODEL
H - 1	F - 1	5.0	1600	APRILAIRE 220
H - 2	F - 2	5.0	1000	APRILAIRE 220
H - 3	F - 3	5.0	1000	APRILAIRE 220

HEATING NOTES	
1.	All duct dimensions shown are finished inside dimensions.
2.	No grille or portion thereof shall project into the air stream.
3.	All ceiling diffuser sizes listed are neck sizes.
4.	Refrig. pipe sizes shown are for Carrier Models listed. Contractor shall re-size refrigerant piping for other mfg. if used.
5.	Take-off collars (spin-ins) shall be General Environment Corp. SMIDEL or approved equal for all round duct take-offs.
6.	All ductwork shall be sheet metal and installed per specs.
7.	All 90° turns Furnace Combustion Air and Vent Piping shall consist of 2-45° elbows.
8.	Pipe all cond. drain piping with schedule 40 PVC.
9.	All piping shall be securely supported and individually suspended.

FIXTURE SCHEDULE									
FIX TYPE	FIXTURE DESCRIPTION			FIXTURE MANUFACTURER	CATALOG NO.	LAMPS		MTG.	NOTES
	TYPE	LENS	FINISH			NO.	TYPE		
A	INDUSTRIAL LUMINAIRE 4'-0"	V-REFLECTOR	BWE	H.E. WILLIAMS INC.	8522CT EB	2	F40 MWRS/EN	CEILING SURFACE	1,2,3
A-1	INDUSTRIAL LUMINAIRE 4'-0"	WIDE ANGLE REFLECTOR	BWE	H.E. WILLIAMS INC.	8222CT EB	2	F40 MWRS/EN	CEILING SURFACE	1,2,3
B	2'-0" x 4'-0" TROFFER	PRISMATIC	BWE	LITHONIA	26T340A19120EB	3	F40 MWRS/EN	LAY-IN CEILING	1,3,4
B-1	2'-0" x 4'-0" TROFFER	PRISMATIC	BWE	LITHONIA	26T440A19120EB	4	F40 MWRS/EN	LAY-IN CEILING	1,3,4
C	1'-0" x 4'-0"	SMALL CELL alum. parabolic	BWE	LITHONIA	M24078155EB	2	F40 MWRS/EN	CEILING SURFACE	1,3,4
D	INDUSTRIAL LUMINAIRE 4'-0" ENCLOSED	ACRYLIC	WHITE	LITHONIA	DM240120EB	2	F40 MWRS/EN	CEILING SURFACE	1,3,4,5
E	SHOWER SQUARE	TRANSLUCENT POLYCARB.	WHITE	RUDD LIGHTING INC.	SS0230120W	1	2D-30W FLUOR.	CEILING SURFACE	6,7
X	SINGLE FACE EXIT SIGN	RED STENCIL FACE	BLACK	DUAL -LITE/ SURE-LITE	CNRW-LED	1	LED LAMP PANEL		8,9

FIXTURE SCHEDULE NOTES:

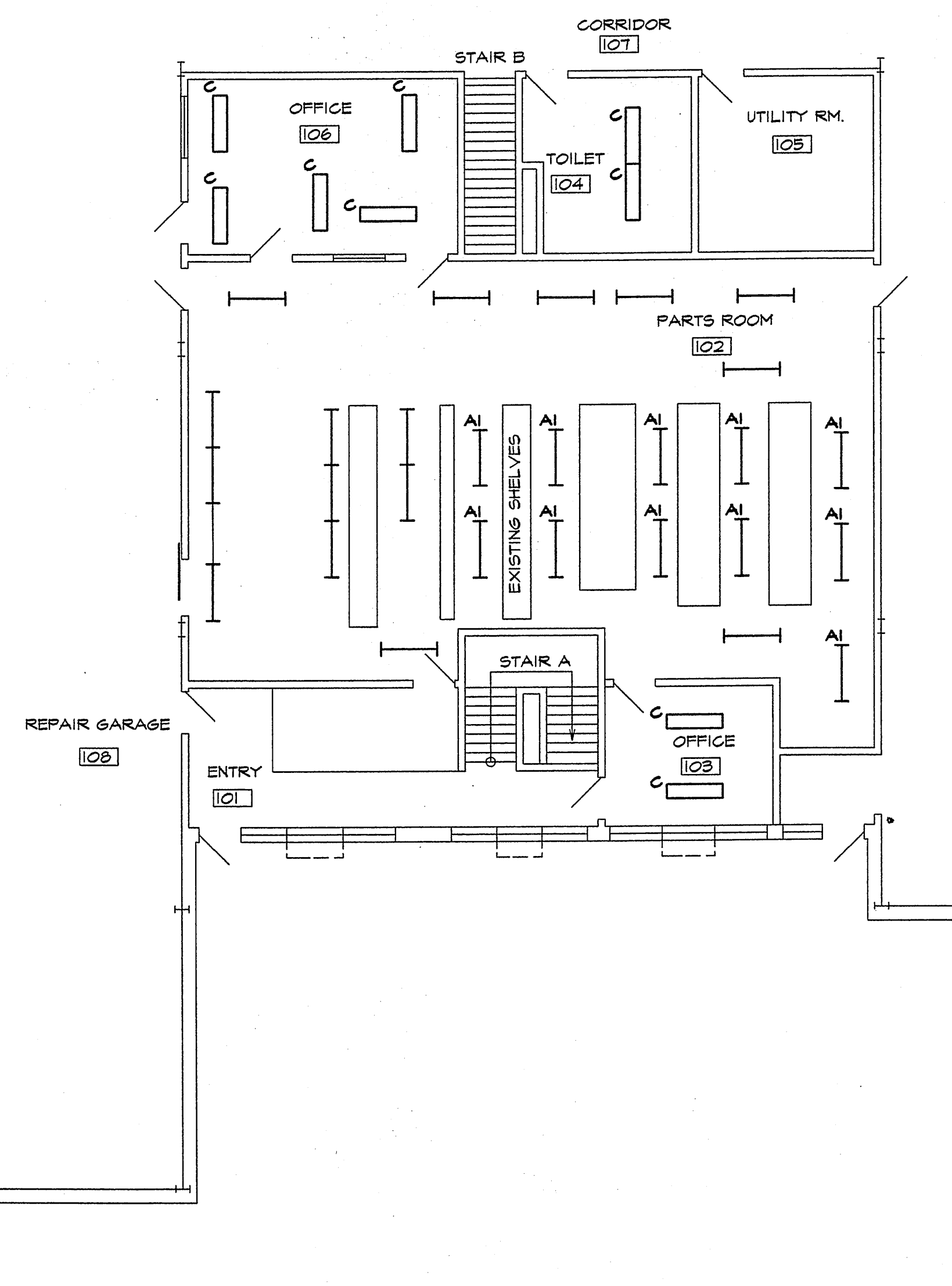
1. Remove all existing surface mounted light fixtures and replace and reconnect to new recessed or surface mounted units as shown on drawing.
2. Lithonia and Metalux shall be considered equal manufacturer.
3. Unit Fixture to be Equipped with Electronic Ballast. Refer to Specifications.
4. H.E. Williams and Metalux shall be considered equal manufacturer.
5. List for lamp location.
6. List for wet location.
7. Halo & Lithonia shall be considered equal manufacturer.
8. Reuse and reconnect to present exit sign circuitry.
9. X-1 wall mounted - single face with arrow.

MOTOR SCHEDULE									
#	UNIT	LOCATION	H.P.	VOLTAGE	PNL/CCT NO.	CONTROL	NOTES		
1	FURN #1	101	3/4	208-1	---	THERM/HUMID.	1		
2	ACCU #1	EXTER/ 101	5.0KW	208-1	---	THERM/HUMID.	1		
3	FURN #2	201	1/3	115-1	LCHZ-4	THERM/HUMID.	2		
4	ACCU #2	ON ROOF	3.2KW	208-1	LCHZ-6#8	THERM/HUMID.	3,4		
5	MUJ #1	201	1/3	115-1	LCHZ-3	THERMOSTAT	2		
6	ACCU #4	ON ROOF	3.2KW	208-1	LCHZ-4#11	THERMOSTAT	3,4		
7	FURN #3	201	1/3	115-1	LCHZ-2	THERM/HUMID.	2		
8	ACCU #3	ON ROOF	3.2KW	208-1	LCHZ-10#12	THERM/HUMID.	3,4		
9	E.P. #1	206	1/3	115-1	LCHZ-1	LIGHTSWITCH	2		

NOTES: 1. Branch circuitry and wiring presently exists to and for unit. Electrical Contractor upon testing and inspection may elect to reuse any/all services as provided. Should reuse not be applicable, provide all new as required. (branch breaker, conduit, wiring, disconnect etc. and reconnect accordingly.)
2. 20/1 pole breaker size, 2 #12 conductors and circuit as noted.
3. 20/2 pole breaker size, 2 #12 conductors and circuit as noted.
4. Provide an NEMA 3R, hood safety switch as per drawing provide fuses per unit manufacturer's recommendations.

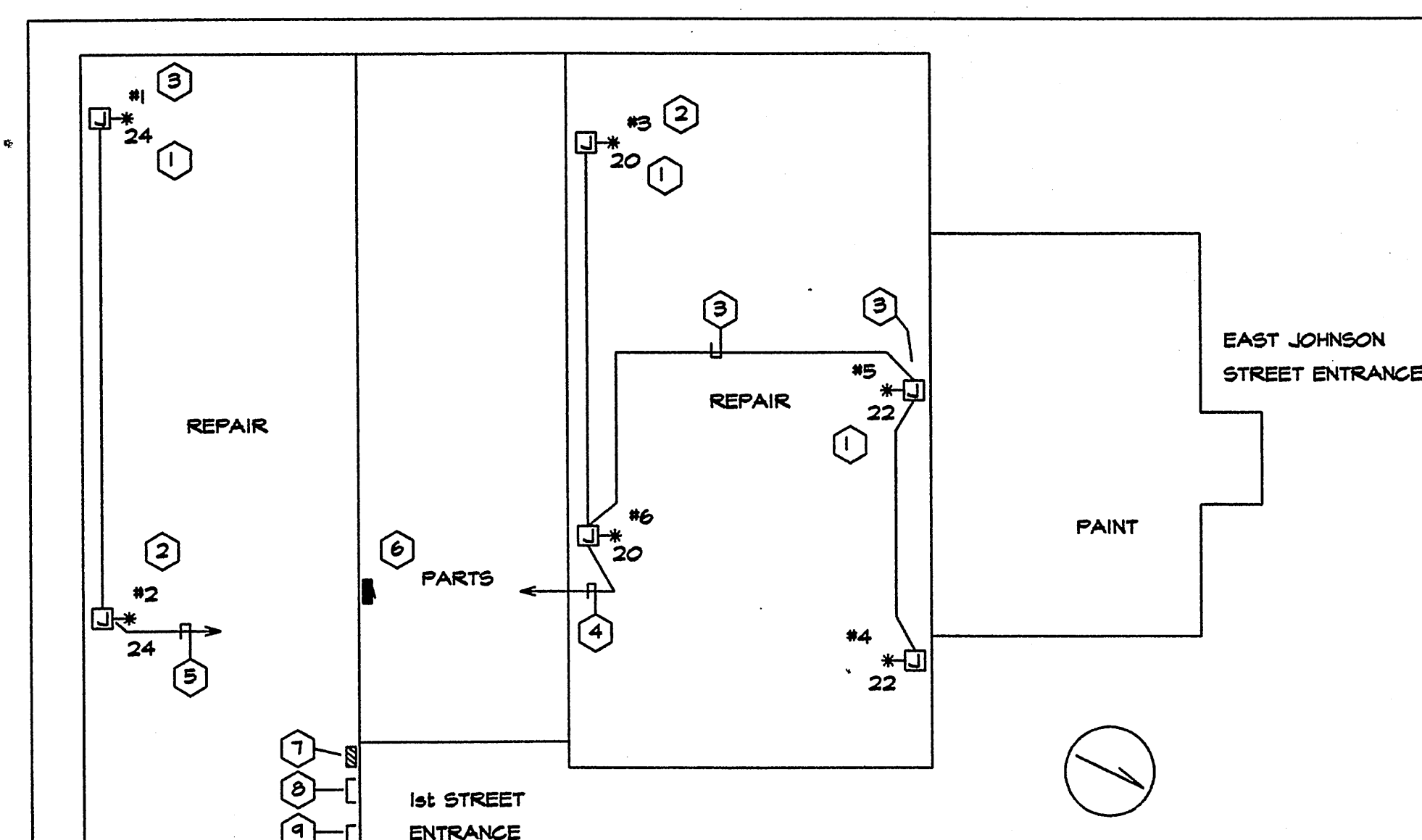
ELECTRICAL SYMBOL LIST

	2X4 Recessed Fluorescent Light Fixture Type as noted.
	1X4 Surface Mounted Fluorescent Light Fixture. Type as noted.
	1X4 Surface Mounted Industrial Light Fixture. Type as noted.
	Exit Sign with or without Arrow
	Vertical Data/Power, Dual/Single Channel Receptacles as noted. Refer to Specifications & Drawing.
	Two Channel Surface Raceway Data & Power, Equipped with 20amp Duplex Isolated Ground Receptacles Refer to Specifications & Drwg.
	Duplex Receptacle as Noted, Wall, Pole Surface or Box Mounted - See Plan
	New Surface Mounted Panelboard
	Existing Panelboard
	New Load Center Equipment Panel.
	Terminal Cabinet as Noted
	Disconnect Switch F = Fused
	Conduit Surface Raceway Run Exposed on Surface or in Ceiling Void
	Ventilated Cable Tray System with Accessories as Noted
	Conduit Routed Within Suspended Ceiling
	Flexible Wiring Connection
	Surface Mounted Junction Box
	Motor with Motor Schedule Number Indicated
	Keyed Plan Note



LIGHTING PLAN - FIRST FLOOR

SCALE: 1/8" = 1'-0"



COMPUTER TOUCH SCREEN OUTLET PLAN

SCALE: 1/32" = 1'-0"

KEYED COMPUTER TOUCH SCREEN OUTLET NOTES

1. Denotes approximate location and unit number of touch screen computer.
2. Denotes touch screen computer isolated grounded orange outlet. Mounted in square surface metal box with cover and located approximately 30" up adjacent to building support buttress/column.
3. Conduit routed up adjacent column and via ceiling structural members and onto panel "CE" and circuit as noted.
4. Circuits 20 and 22 routed to panel "CE".
5. Circuit 24 routed to panel "CE".
6. Panel "CE" located in office room 202.
7. Existing panel "B" repair shop lighting for reference only.
8. Existing building service area three phase equipment for reference only.
9. Existing building service area single phase equipment for reference only.

LIGHTING PLAN - SECOND FLOOR

SCALE: 1/8" = 1'-0"

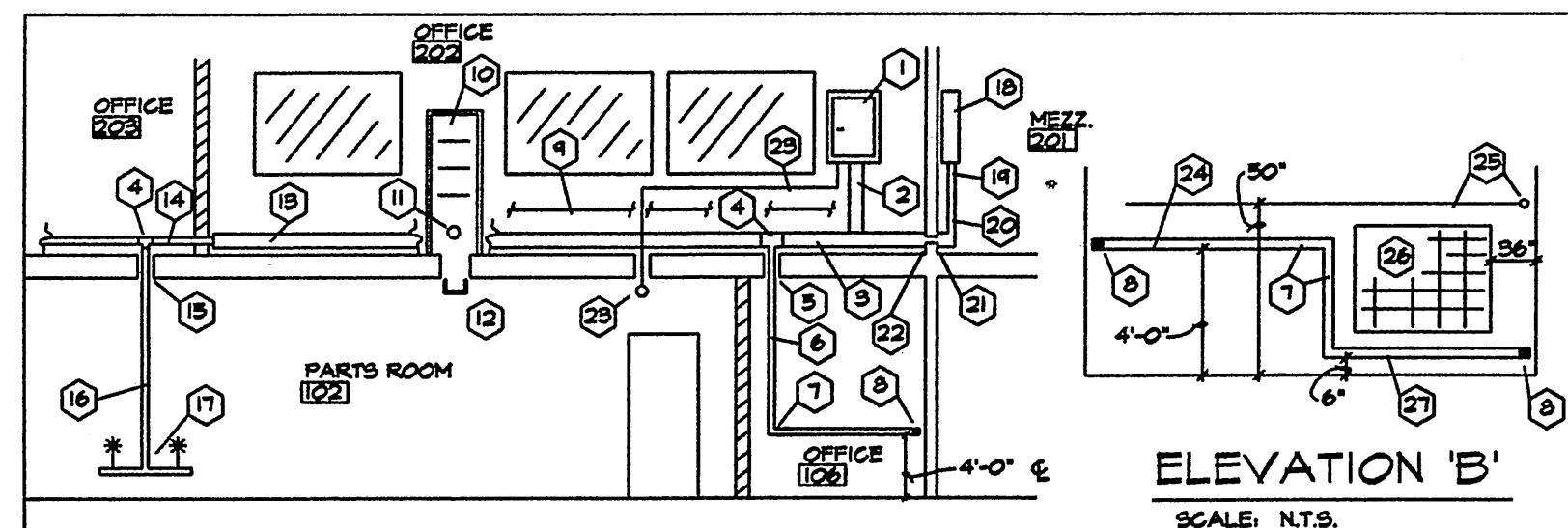
KEYED ELECTRICAL NOTES

1. Additional type "B" light fixture required here. Extend circuitry from tie-in to Office 202 lighting and switch control.
2. Remove completely existing recessed square light fixtures located in ceilings of Lunch Room 205, and Men's 207 (wiring, exposed conduit, etc.).

GENERAL ELECTRICAL NOTES

1. Refer to Drawing E1 for related drawing Symbol list and this drawing for light Fixture Schedule.
2. All light fixtures shall be type "A" unless noted otherwise.
3. Remove all surface mounted light fixtures. Existing light fixtures to be replaced with new recessed or surface mounted units as shown on the drawing. Present circuitry to be extended to new fixture replacements and local switching arrangements to remain as is and reconnected accordingly as required.
4. All raceway and cables shall have an insulated grounding conductor. Install with branch circuit and feeder conductors. Verify existing conductors if reuse is scheduled.
5. Where applicable contractor may elect to reuse present lighting circuitry not affected by demolition (i.e., conduit emanating from existing panel, conductors if not damaged (Verify condition boxes, etc.). Where upon he shall verify the reuse of revise/add as required.
6. Verify all equipment locations before rough in and/or installation.
7. Electrical contractor to coordinate & verify all new electrical equipment routing to insure & avoid interference with other trades & existing building electric scheduled to remain.

	FIRST STREET - CITY GARAGE MADISON, WISCONSIN	DATE: 8/19/97
	associated engineers inc.	E-1
	1801 W. Beltline Hwy Madison WI 53713 Phone (608) 274-1178 Fax# (608) 274-1416	



ELEVATION 'B'
SCALE: N.T.S.

ELEVATION 'A' - SURFACE RACEWAY BETWEEN FLOORS
SCALE: N.T.S.

KEYED ELECTRICAL DRAWING ELEVATION 'A' AND 'B' NOTES

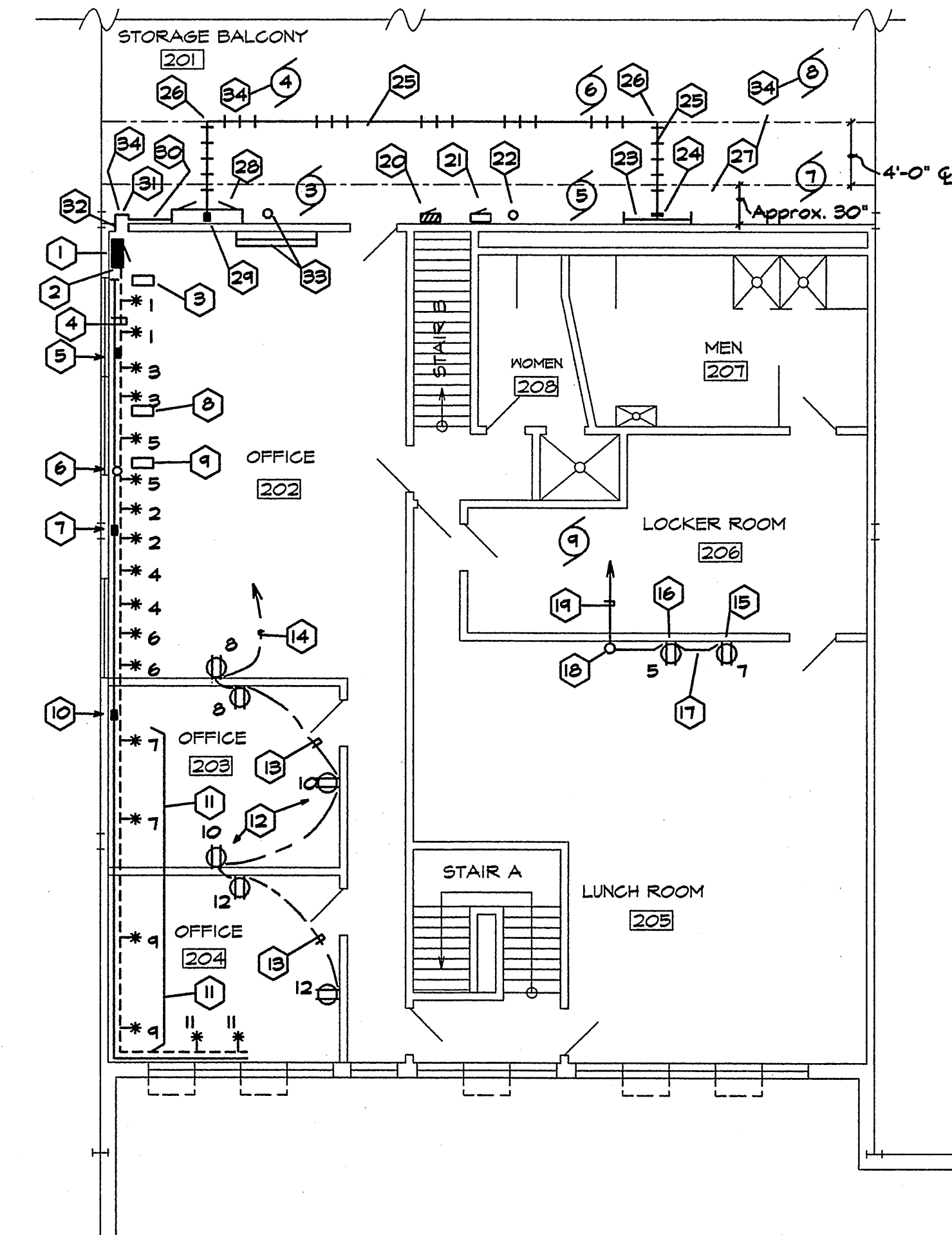
- 1 New surface mounted panel "CE".
- 2 Panel entrance fitting, single channel surface raceway for power wiring applications and tee connection.
- 3 Dual channel surface aluminum raceway wall mounted 12" AFF behind existing desk and work area tables. Lower channel (3.50 sq. in.) data/communication cabling (review required fittings & devices with owner) and upper channel (2.85 sq. in.) power wiring applications (isolated ground) with receptacles located 2'-0" on centers. Wiremold AL 5200 series.
- 4 Surface raceway divided tee and reducer.
- 5 6" x 2" slot in floor from office 202 down to office 106 for surface raceway.
- 6 Dual channel surface raceway down to 4'-0" AFF and circuits 14, 15 & 18 from panel "CE" for office 106 isolated power. Wiremold AL 4200 series.
- 7 40 degree flat elbow.
- 8 Internal corner coupling. Dual channel surface raceway continued on - see drawing.
- 9 Existing surface mounted conduit located 2'-0" AFF to remain.
- 10 File server computer equipment rack.
- 11 Existing cored opening behind server with existing interconnection cabling.
- 12 6" x 4" slot in floor & cable tray vertical inside elbow from office 202 down to parts area for data/communications cable routing via cable tray system.
- 13 End reducing connector.
- 14 Dual channel surface aluminum raceway wall mounted 12" AFF and receptacles 4'-0" on centers (each office). Wiremold AL 4200 series.
- 15 6" x 2" slot in floor from office 203 down to desk area below (parts area) see plan.
- 16 Dual channel raceway down to desk and located 12" AFF.
- 17 Review fittings & devices with owner & route circuit to panel "CE".
- 18 4'-0" x 4'-0" x 8" surface mounted cabinet located in mezzanine area.
- 19 2-Panel entrance fittings and 2-Single channel surface raceways, wiremold AL 4320 series for data/communication wiring only applications down to tee connection of wiremold AL 5200 series surface raceway from cabinet to cabling junction box item 20 below.
- 20 12" x 12" x 8" galvanized cabling junction box with open rear and screen on cover. Box shall be located over existing cored opening item 21 below.
- 21 Existing cored opening between office 202 & mezzanine with existing interconnecting cabling. (Enlarge opening to accommodate entering cabling).
- 22 Extend data channel to receive cabling emanating from cabling junction box & terminal cabinet located on mezzanine.
- 23 1" conduit with circuits 13, 15, 17 & 18 to panel "CE" via cored opening between parts area and up to office 202. Provide conduit offsets as required to panel "CE".
- 24 Dual surface raceway, 4'-0" to bottom of raceway. Wiremold AL 4200 series.
- 25 Existing surface conduit about office 50" AFF.
- 26 Existing 56" x 54" surface mounted wall file rack located 15" AFF.
- 27 Similar comment as 24 of above except located 6" AFF and continued on ground office. See drawing.

FIRST FLOOR POWER PLAN KEYED NOTES

- 1 6" x 4" slot from office 202 above down to parts area and offices cabling.
- 2 Cable tray vertical inside elbow non-radiused.
- 3 Bottom ventilated cable tray base with double return flange 6" wide x 4" high (in lengths as field required min 6" - max 120") tray support either center rod or c-hanger.
- 4 Inside/outside vertical offset risers non-radiused 6" below mechanical duct work.
- 5 Cable tray tee and reducers (2) non-radiused.
- 6 Similar comment as 5 of above except 4" wide x 2" high.
- 7 Cable tray pole adapter (drop out) for data only.
- 8 Cable tray end blank.
- 9 Existing shelves.
- 10 Ceiling light fixture location.
- 11 Cable tray tee non-radiused.
- 12 Cable tray flat 90 degree elbow non-radiused.
- 13 Cable tray/surface raceway interconnection (take off connector on oversize receptacle box or tee combination flat elbow and connector coupling).
- 14 Data surface raceway down & continued on between existing surface receptacles & between new isolated ground receptacles item 16 of below. Wiremold 2,000 series.
- 15 Blank and fitting.
- 16 Surface mounted complete (2) isolated ground receptacles located above & between existing surface mounted receptacles.
- 17 Cct. #14 from panel "CE" routed in 1/2" c for office 103 isolated ground power.
- 18 Data/power vertical pole to be mounted between ceiling and on existing service counter poles are to be adjusted to suit existing field conditions. (min 50")
- 19 Provide junction box for noted branch circuitry to power compartment of data/power vertical poles and circuit as noted.
- 20 Circuits 13, 15, 17 and 18 in 1" c up to panel "CE".
- 21 As location shown provide a vertical data/power pole for Owner Xerox machine. Pole for power use only. Pole shall be Wiremold #25DTP-4. Sized to fit existing field conditions and equipped with (2) duplex 20 amp, 125V grounded outlets.
- 22 Route 2-#12 and ground in 1/2" c to available 20 am, 1 pole circuit breaker in existing panel "B" located in building service area.
- 23 6" x 2" slot at ceiling from office 202 to office 106 for power wiring and cabling circuits 14, 15, & 18 routed to panel "CE" for office 106 isolated power. Wiremold AL 4200 series.
- 24 1" conduit with circuits 13, 15, 17 & 18 up to panel "CE".
- 25 Slot at ceiling with raceway services from parts area desk.
- 26 (2) grounded 20 amp duplex outlets located below desk area for coffee and popcorn maker uses.
- 27 Similar comment as 22 of above except 2-20 amp circuit breakers required.
- 28 Existing panel "B". Located in building service area.
- 29 Denotes motor equipment number, refer to motor schedule.
- 30 Refer to "Elevation 'A' - Surface Raceway Between Floors.
- 31 Refer to "Elevation 'B' - Surface Raceway.

FIRST FLOOR PLAN - POWER

SCALE: 1/8" = 1'-0"

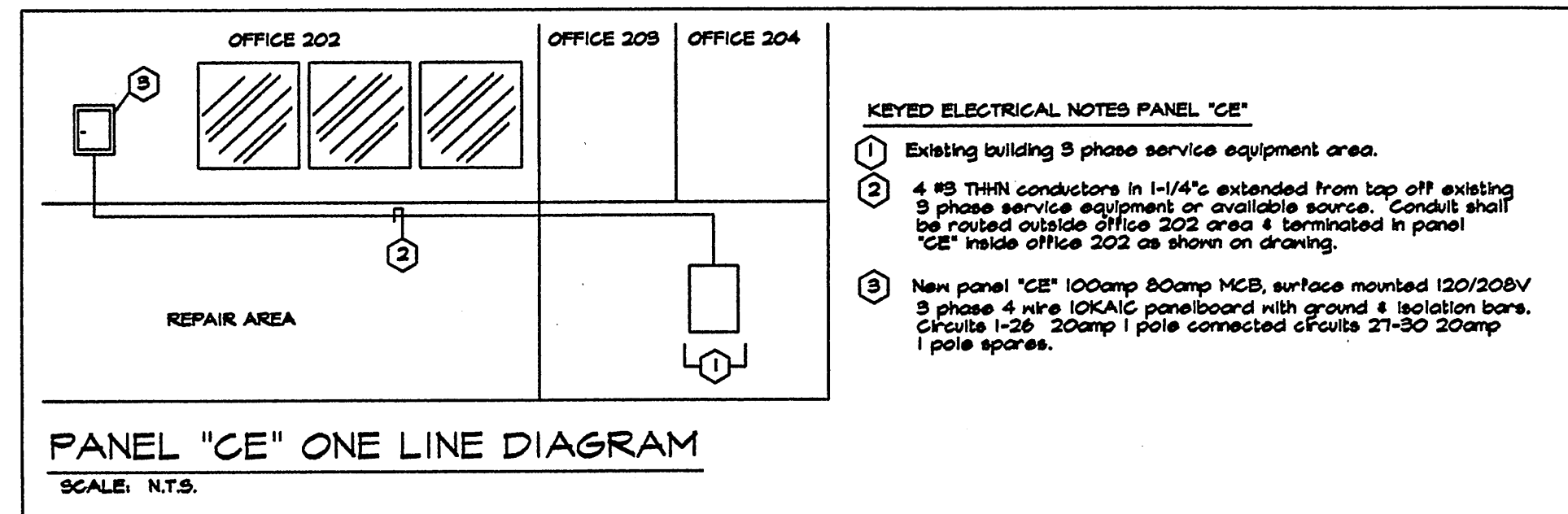


GENERAL ELECTRICAL NOTES

1. Refer to Drawing EI for related drawing Symbol list and motor equipment schedule.
2. All raceway and cables shall have an insulated grounding conductor. Install with branch circuit and feeder conductors. Verify existing conductors if reuse is scheduled.
3. Verify all equipment locations before rough in and/or installation.
4. Convenience and equipment duplex outlets presently exist and are to remain as is for other owners use other than computer usage.
5. Electrical contractor to coordinate & verify all new electrical equipment routing to insure & avoid interference with other trades & existing building electricis scheduled to remain.

SECOND FLOOR PLAN - POWER

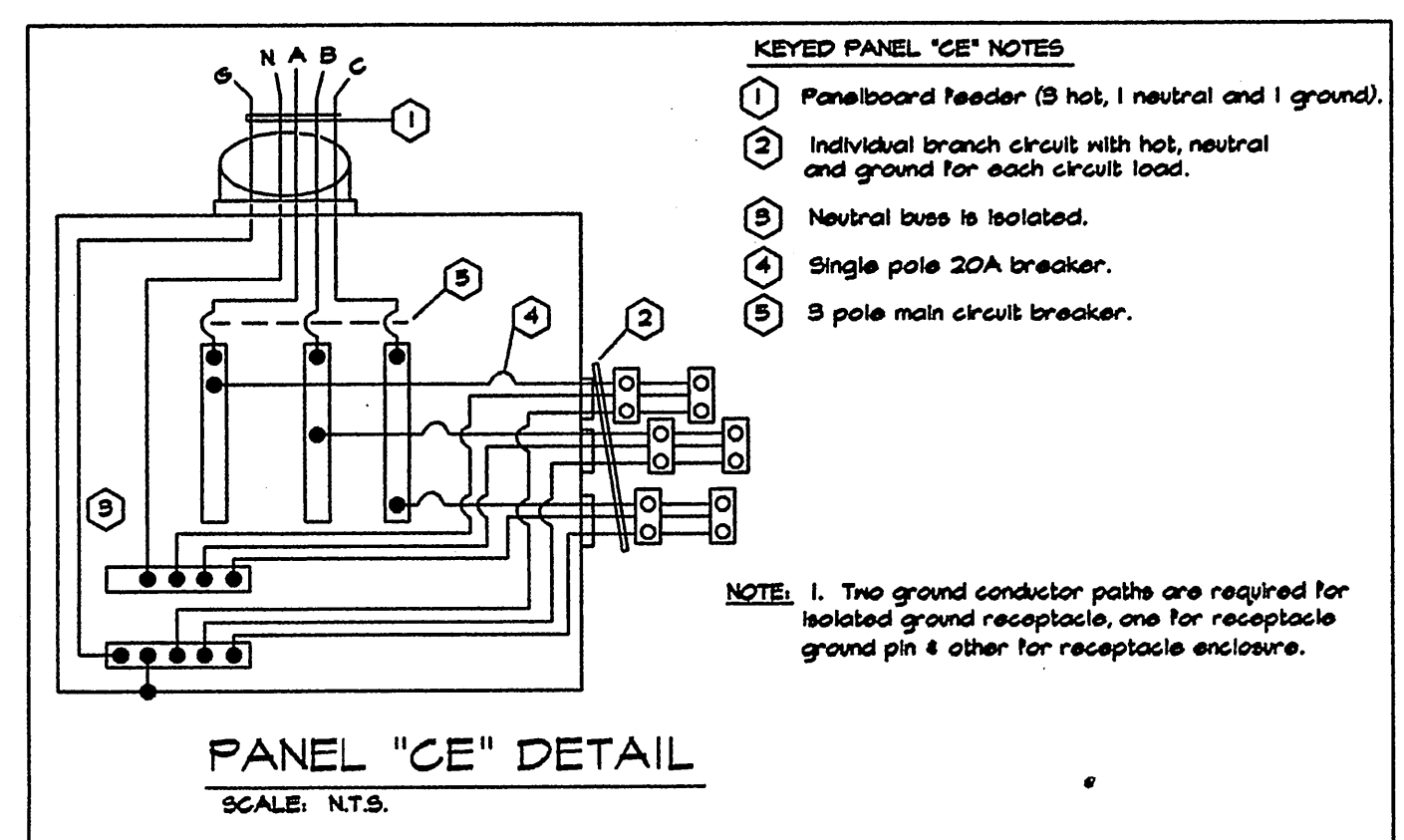
SCALE: 1/8" = 1'-0"



KEYED ELECTRICAL NOTES PANEL "CE"

- 1 Existing building 3 phase service equipment area.
- 2 4 #3 THHN conductors in 1-1/4" extended from top off existing 3 phase service equipment or available source. Conduit shall be routed outside office 202 area & terminated in panel "CE" inside office 202 as shown on drawing.
- 3 New panel "CE" 100amp 80amp MCB, surface mounted 120/208V 3 phase 4 wire 10KALC panelboard with ground & isolation bars. Circuits 1-26 20amp 1 pole connected circuits 27-30 20amp 1 pole spaces.

PANEL "CE" ONE LINE DIAGRAM
SCALE: N.T.S.

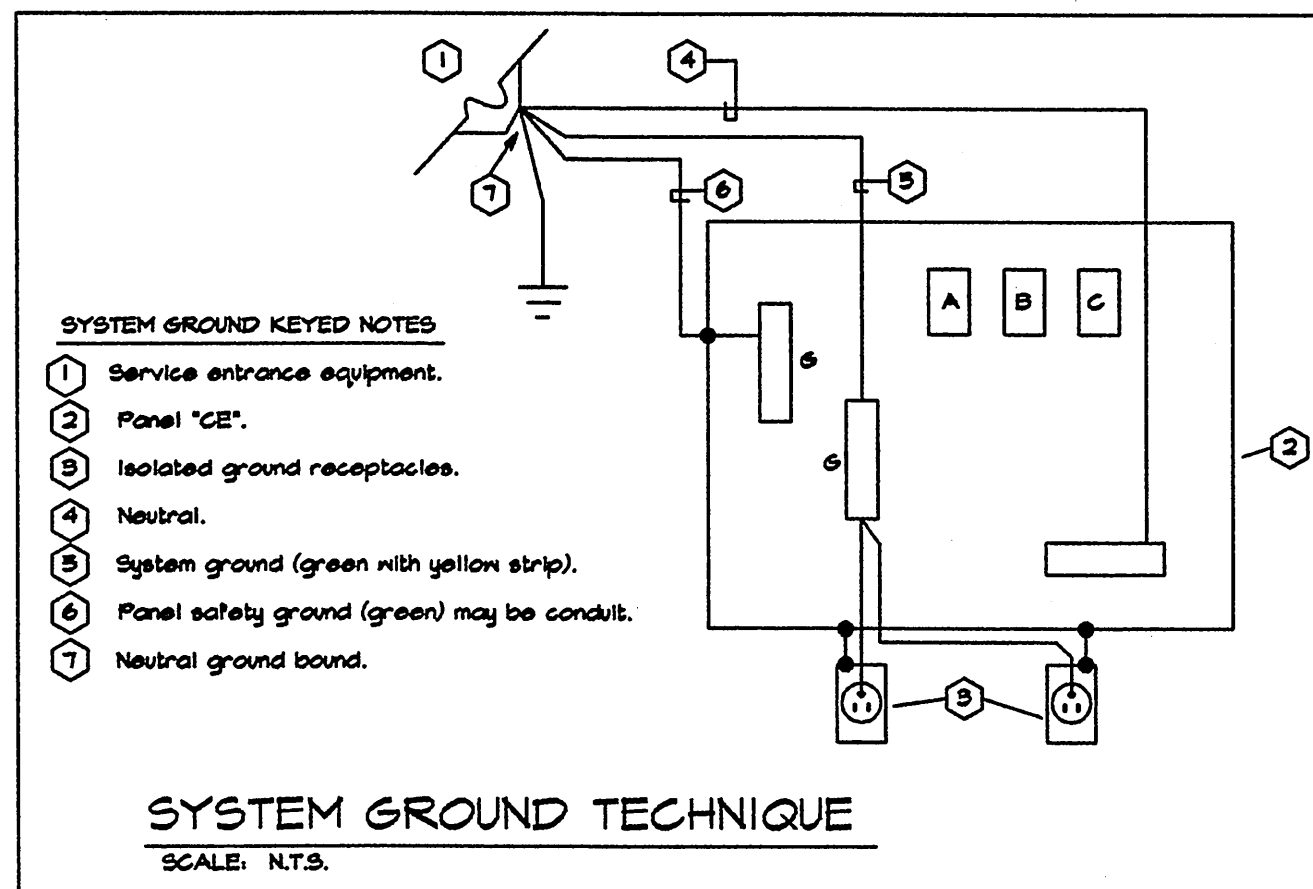


KEYED PANEL "CE" NOTES

- 1 Panelboard feeder (3 hot, 1 neutral and 1 ground).
- 2 Individual branch circuit with hot, neutral and ground for each circuit load.
- 3 Neutral bus is isolated.
- 4 Single pole 20A breaker.
- 5 3 pole main circuit breaker.

NOTE: 1. Two ground conductor paths are required for isolated ground receptacle, one for receptacle ground pin & other for receptacle enclosure.

PANEL "CE" DETAIL
SCALE: N.T.S.



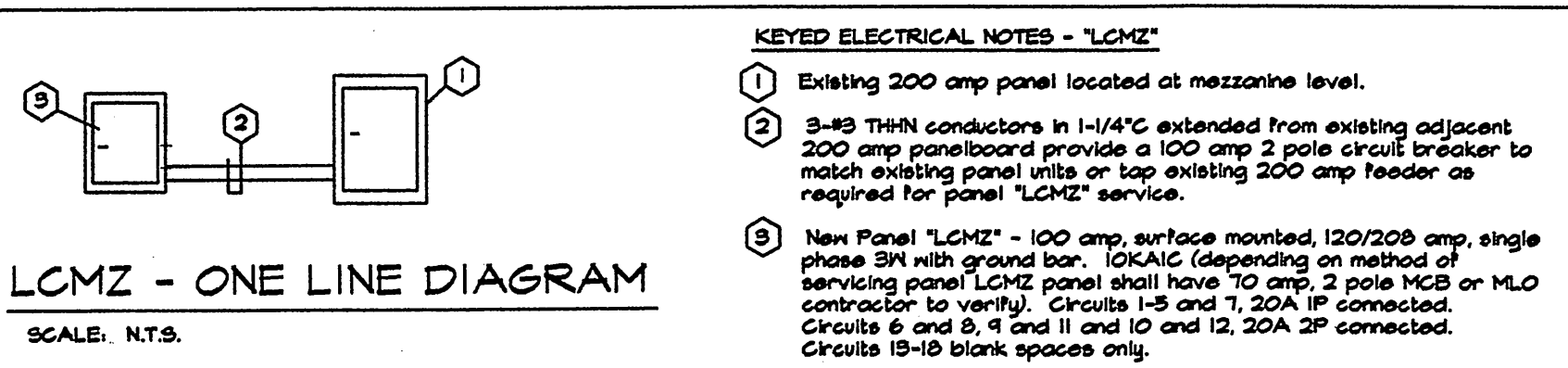
SYSTEM GROUND KEYED NOTES

- 1 Service entrance equipment.
- 2 Panel "CE".
- 3 Isolated ground receptacles.
- 4 Neutral.
- 5 System ground (green with yellow strip).
- 6 Panel safety ground (green) may be conduit.
- 7 Neutral ground bond.

SYSTEM GROUND TECHNIQUE
SCALE: N.T.S.

SECOND FLOOR KEYED PLAN NOTES

- 1 New panelboard "CE".
- 2 Panel entrance fitting, single channel surface raceway for power wiring applications and tee connection. Refer to "Elevation A" surface raceway between floors-this drawing.
- 3 New 2100 VA UPS (Uninterruptible Power Source) station and area of fuel system computer equipment.
- 4 Dual channel surface aluminum raceway wall mounted 12" AFF behind existing desk and work area tables. Lower channel (3.50 sq. in.) data/communication cabling (review required fittings & devices with owner) and upper channel (2.85 sq. in.) power wiring applications (isolated ground) with receptacles located 2'-0" on centers. Wiremold AL 5200 series.
- 5 6" x 2" slot in floor from office 202 down to office 106 for surface raceway.
- 6 1" conduit with circuits 13, 15, 17 & 18 to panel "CE" via cored opening between parts area and up to office 202. Provide conduit offsets as required to panel "CE".
- 7 Surface raceway routed above table counters with receptacles located 2'-0" on centers.
- 8 6" x 4" slot in floor & cable tray vertical inside elbow from office 202 down to parts area for data/communications cable routing via cable tray system.
- 9 Existing UPS and area for communication HUB system computer equipment.
- 10 Existing UPS and area for file server system computer equipment.
- 11 6" x 2" slot in floor from office 203 down to desk area (parts shop) with extended dual channel raceway down to desk and located 12" AFF.
- 12 Dual channel surface aluminum raceway wall mounted 12" AFF and receptacles 4'-0" on centers (each office). Wiremold AL 4200 series.
- 13 New duplex receptacles with isolated ground conductor located in new office walls and routed up into new suspended ceiling and then onto panel "CE" with circuits as noted.
- 14 Conduit with circuits as noted routed in new suspended ceiling.
- 15 Circuits 8, 10, and 12 routed to panel "CE".
- 16 Surface mounted refrigerator receptacle.
- 17 Surface mounted microwave receptacle.
- 18 Surface raceway between outlets.
- 19 Surface raceway up into ceiling and onto "LCMZ".
- 20 Circuits 5 and 7 routed to "LCMZ".
- 21 Existing 300amp panel located on mezzanine for reference only.
- 22 New load center "LCMZ".
- 23 Existing vertical mechanical piping.
- 24 Existing 4'-0" x 4'-0" terminal block/equipment board.
- 25 Cable tray vertical outside elbow up from existing terminal board for connection into cable tray system.
- 26 Bottom ventilated cable tray base with double return flange 6" wide x 4" high (in lengths as field required min 6" - max 120") tray support either center rod or c-hanger.
- 27 Cable tray flat 90 degree elbow non-radiused.
- 28 Existing exposed longspan steel joists scheduled for cable tray routing & support. (in lengths as field required min 6" - max 120") tray support either center rod or c-hanger.
- 29 4'-0" x 4'-0" x 8" surface mounted double door cabinet UL listed NEMA Type 1. Provide 3/4" plywood backing finished in insulating varnish & as manufactured by NESCO, Square D or approved equal.
- 30 Similar comment as 24 of above except down to item 28 of above & for connection thereto via 3" tray to box connector.
- 31 12" x 12" x 8" galvanized cabling junction box with open rear and screen on cover. Box shall be located over existing cored opening item 32 below.
- 32 Existing cored opening between office 202 & mezzanine with existing interconnecting cabling. (Enlarge opening to accommodate entering cabling).
- 33 Existing electric baseboard heater located in office 202 to be removed completely & conduit serving same in storage balcony 201 (mezzanine) to be removed completely back to source.
- 34 Denotes motor equipment number, refer to motor schedule.

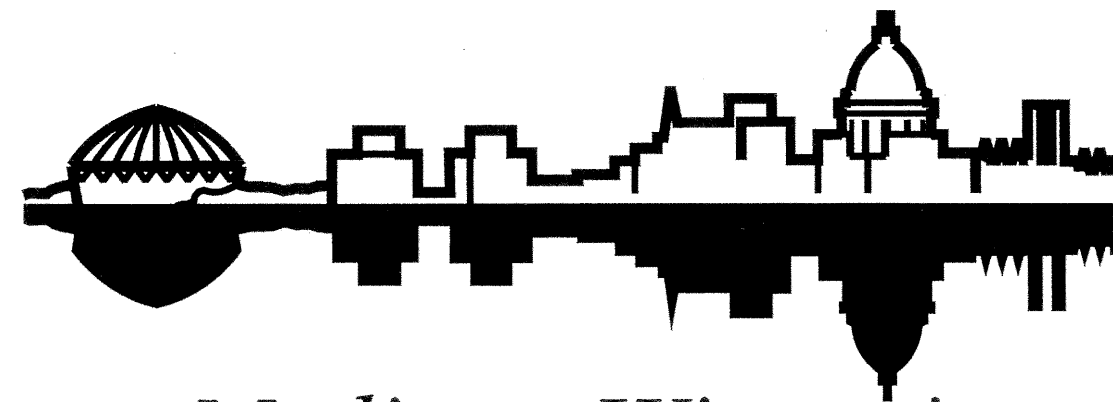


KEYED ELECTRICAL NOTES - "LCMZ"

- 1 Existing 200 amp panel located at mezzanine level.
- 2 3-#3 THHN conductors in 1-1/4" extended from existing adjacent 200 amp panelboard provide a 100 amp 2 pole circuit breaker to match existing panel units or tap existing 200 amp feeder as required for panel "LCMZ" service.
- 3 New Panel "LCMZ" - 100 amp, surface mounted, 120/208 amp, single phase 3W with ground bar. 10KALC (depending on method of servicing panel "LCMZ" panel shall have 70 amp, 2 pole MCB or MLO contractor to verify). Circuits 1-5 and 7, 20A 1P connected. Circuits 6 and 8, 9 and 11 and 10 and 12, 20A 2P connected. Circuits 13-18 blank spaces only.

LCMZ - ONE LINE DIAGRAM
SCALE: N.T.S.

2000 - Fleet Storage



Madison, Wisconsin

CITY OF MADISON

PLAN OF PROPOSED IMPROVEMENT

MOTOR EQUIPMENT STORAGE FACILITY

CONTRACT NO. 5198

INDEX OF SHEETS

SHEET NO.	G1	TITLE
SHEET NO.	C1	MOTOR EQUIP. STORAGE FACILITY, SITE PLAN
SHEET NO.	A1	MOTOR EQUIP. STORAGE FACILITY, FLOOR PLAN
SHEET NO.	A2	MOTOR EQUIP. STORAGE FACILITY, ELEVATIONS
SHEET NO.	A3	MOTOR EQUIP. STORAGE FACILITY, SECTIONS AND DETAILS
SHEET NO.	A4	MOTOR EQUIP. STORAGE FACILITY, DOOR SCHEDULE AND DETAILS
SHEET NO.	S1	MOTOR EQUIP. STORAGE FACILITY, SECTIONS AND NOTES
SHEET NO.	S2	MOTOR EQUIP. STORAGE FACILITY, FOUNDATION PLAN
SHEET NO.	M1	MOTOR EQUIP. STORAGE FACILITY, VENTILATION FLOOR PLAN
SHEET NO.	P1	MOTOR EQUIP. STORAGE FACILITY, PLUMBING PLAN
SHEET NO.	E1	MOTOR EQUIP. STORAGE FACILITY, LIGHTING FLOOR PLAN
SHEET NO.	E2	MOTOR EQUIP. STORAGE FACILITY, POWER PLAN

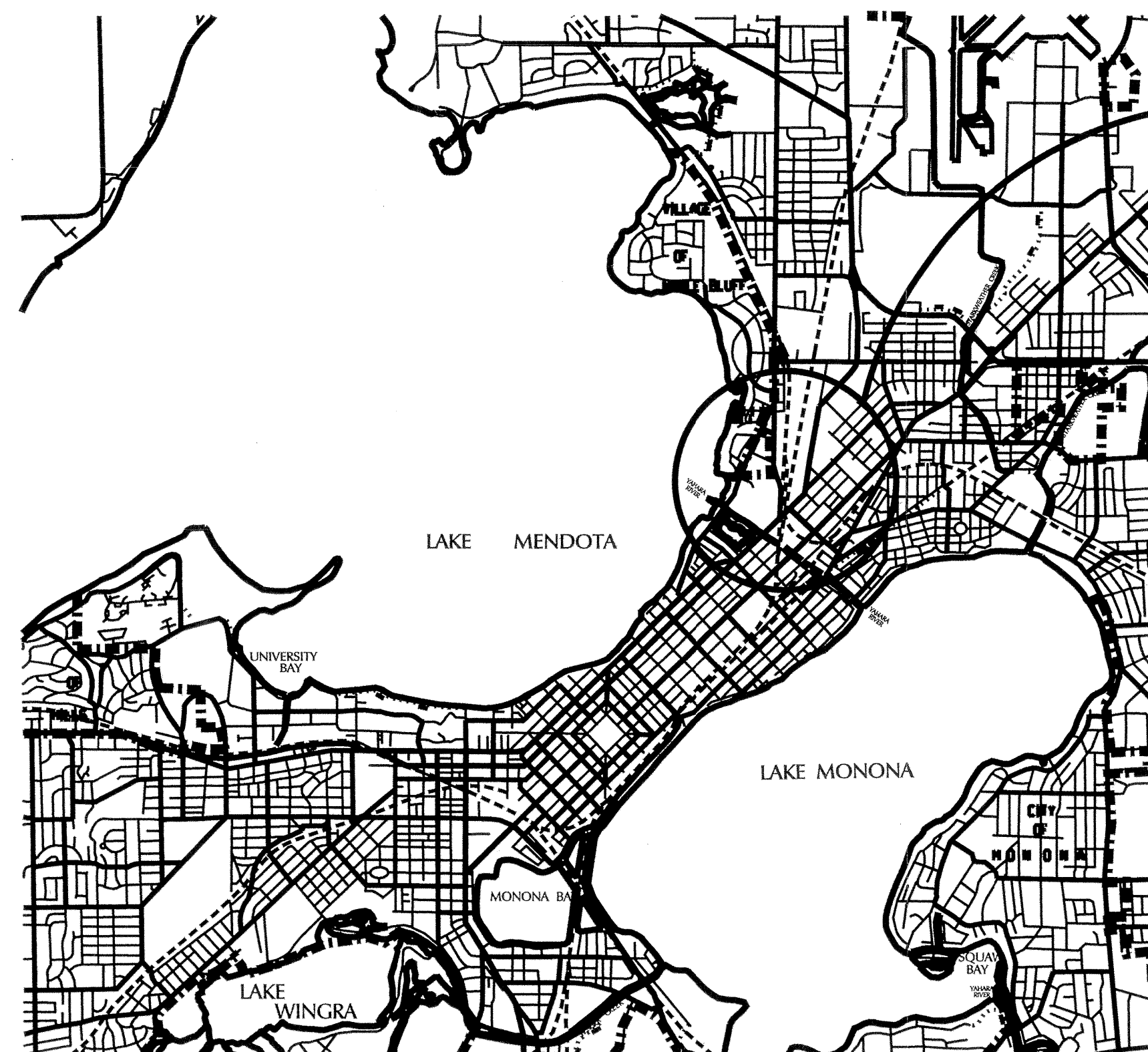
PUBLIC IMPROVEMENT PROJECT APPROVED

_____, 19____
BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

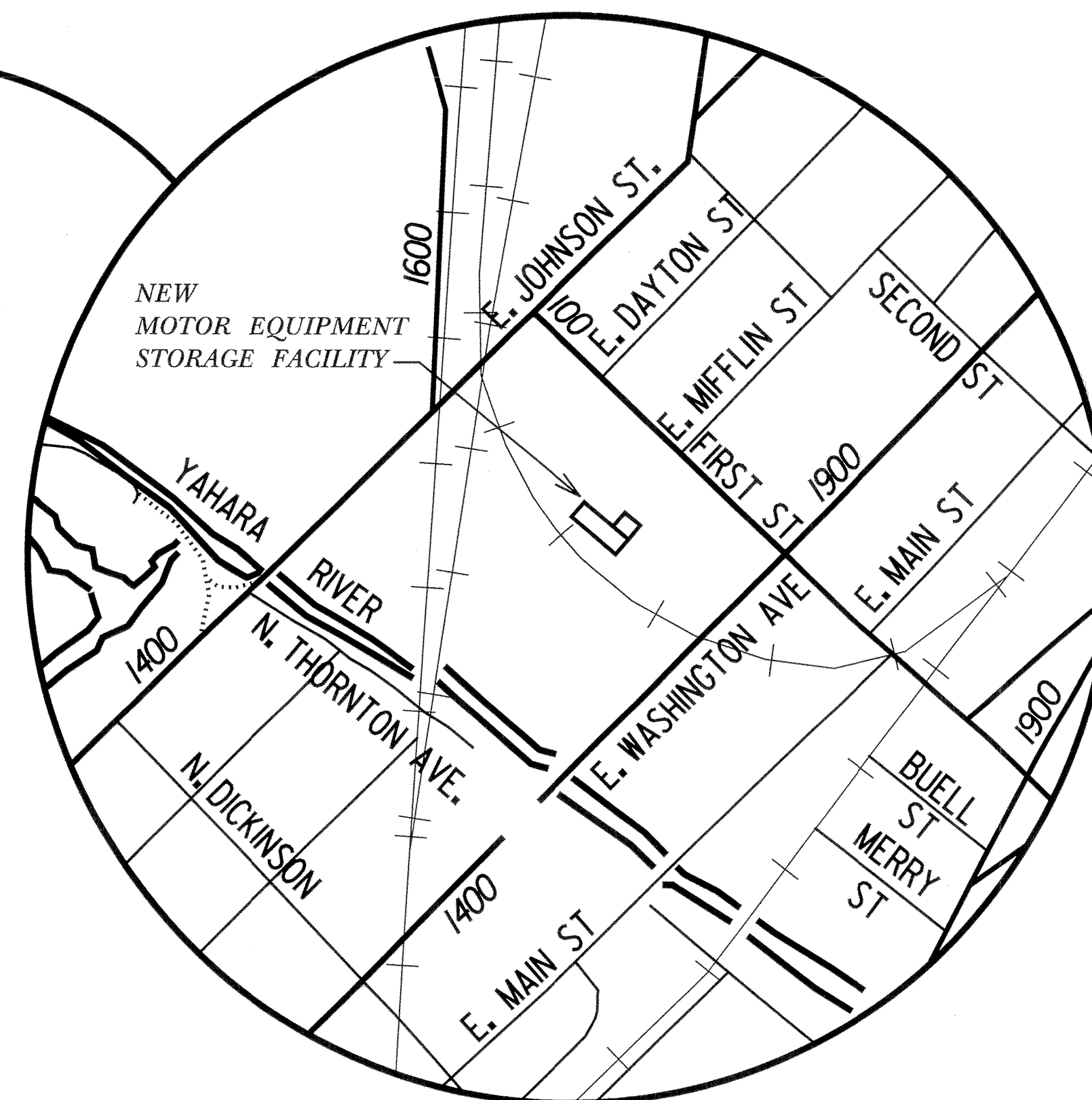
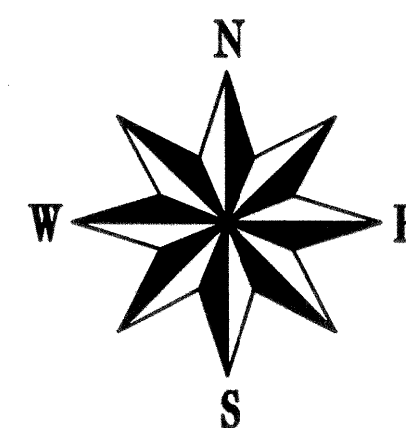
City Clerk

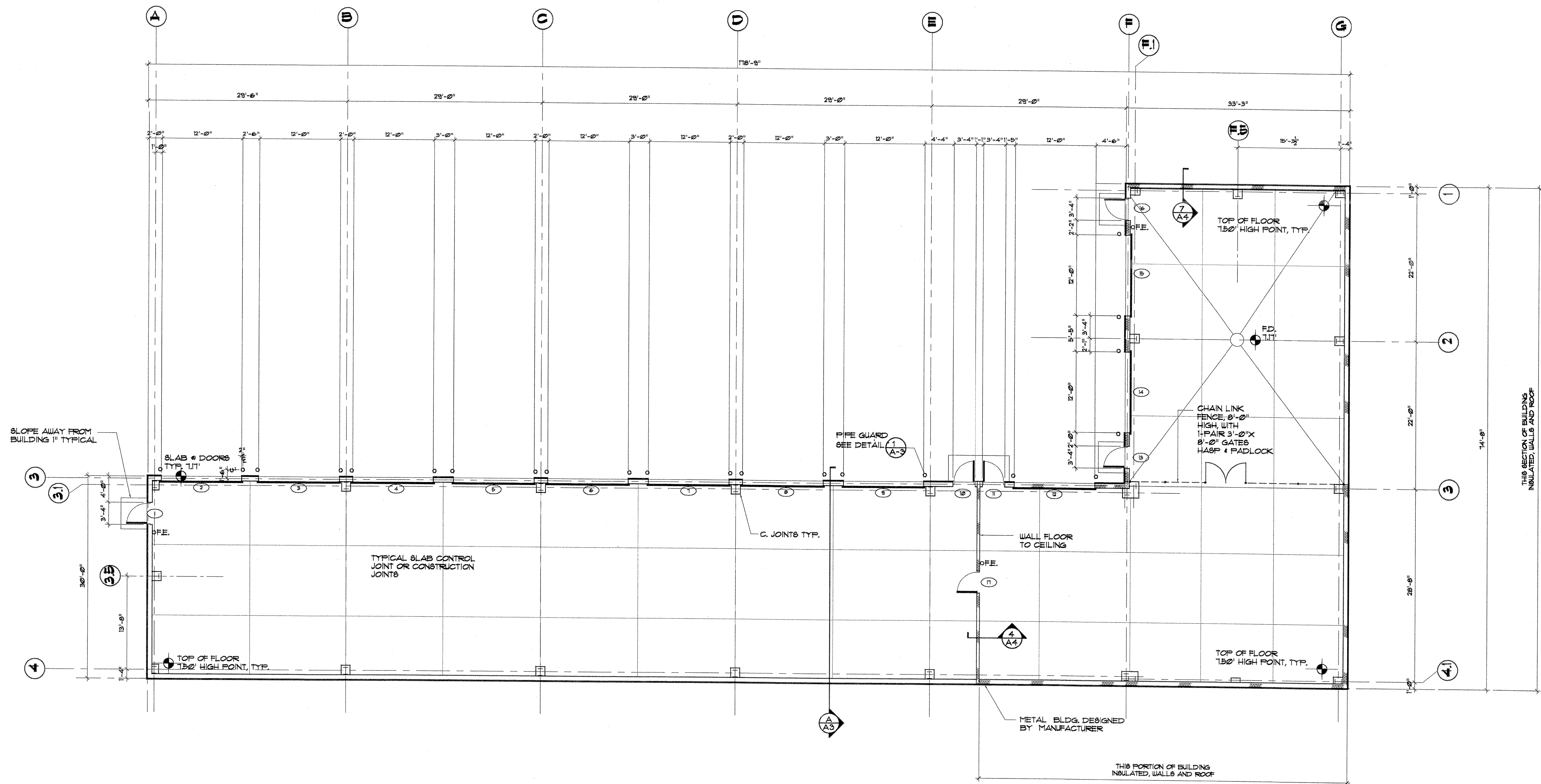
Date

GARAGE BUILDING
DESIGNED BY:



PROJECT
LOCATION



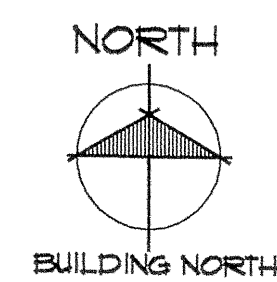


FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

FE. = FIRE EXTINGUISHER

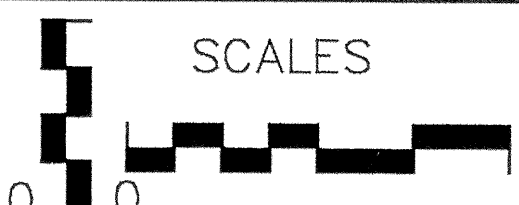
SEE PLUMBING, HEATING, ELECTRICAL
STRUCTURAL PLANS, FOR COORDINATION.



RECORD DRAWINGS OF COMPLETED
CONSTRUCTION CONFORMING TO
CONTRACTORS AND/OR OWNERS
RECORDS.
BY _____ DATE _____

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REVISIONS / REMARKS				PROJECT I.D.	98M101
NO.	DESCRIPTION	DATE	BY	SURVEY DATA	8M101BAS 3D
1				SURVEYED BY	BFO / DFC 99
2				DRAWN BY	
3				REVIEW/APP.	RK1 / DMS



DANE COUNTY

MOTOR EQUIPMENT
STORAGE FACILITY
CITY OF MADISON
CITY ENGINEERING DIVISION

WISCONSIN

FLOOR PLAN
NEW GARAGE BUILDING

SHEET NO.
A1

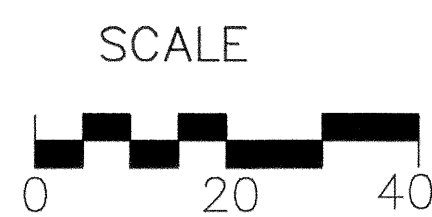
DATE: 10/15/99 TIME: 15:10:08

FILE: \$\$\$DGN\$SPEC\$

RECORD DRAWINGS OF COMPLETED CONSTRUCTION CONFORMING TO CONTRACTORS AND/OR OWNERS RECORDS.

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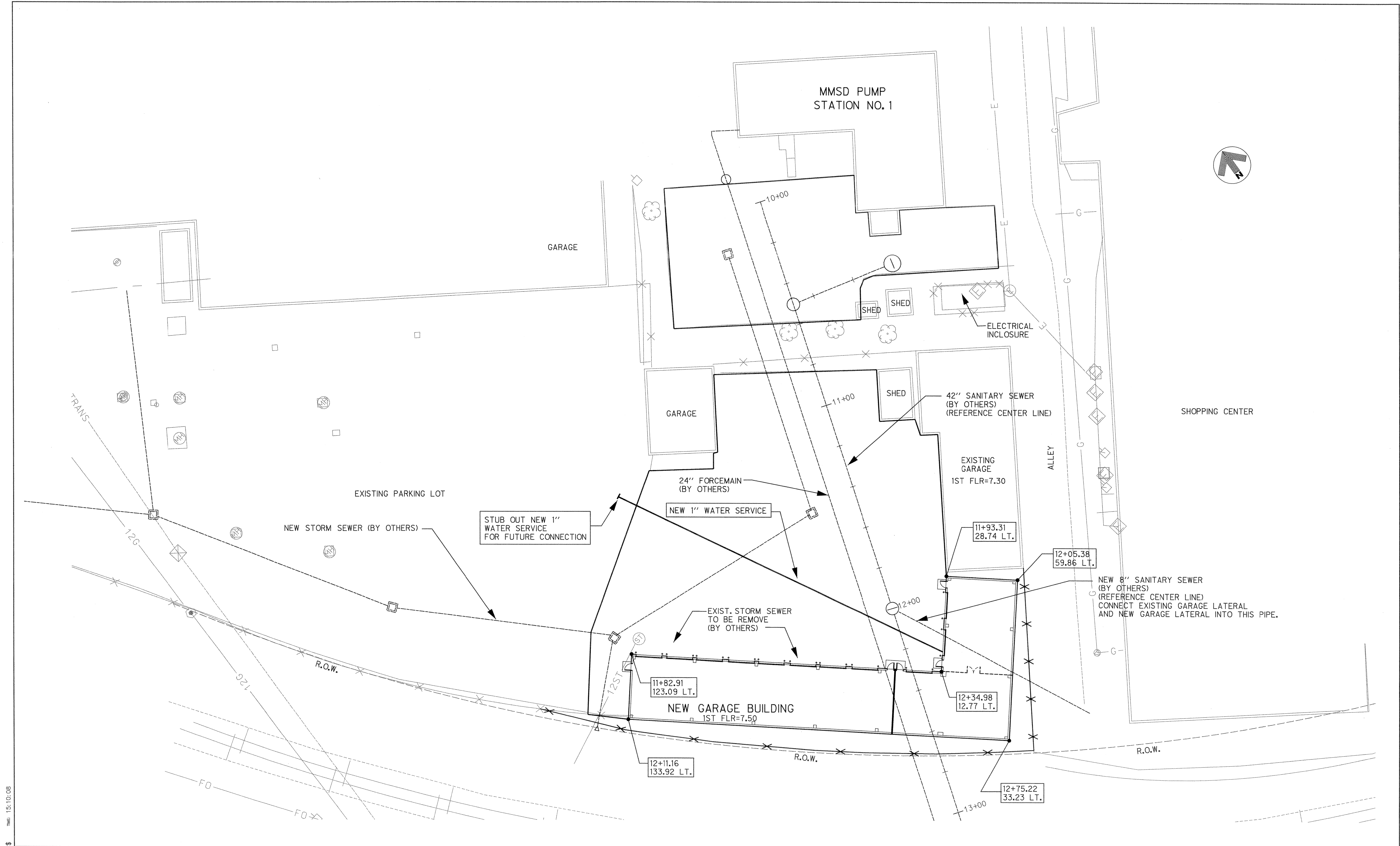
REVISIONS / REMARKS				PROJECT I.D.	
NO.	DESCRIPTION	DATE	BY	SURVEY DATA	8M101BASE.3D
1	MOVED GARAGE	10/99	JPS	SURVEYED BY	BEO / DEC 99
2				DRAWN BY	JPS
3				REVIEW / APP.	JRK1 / DMS

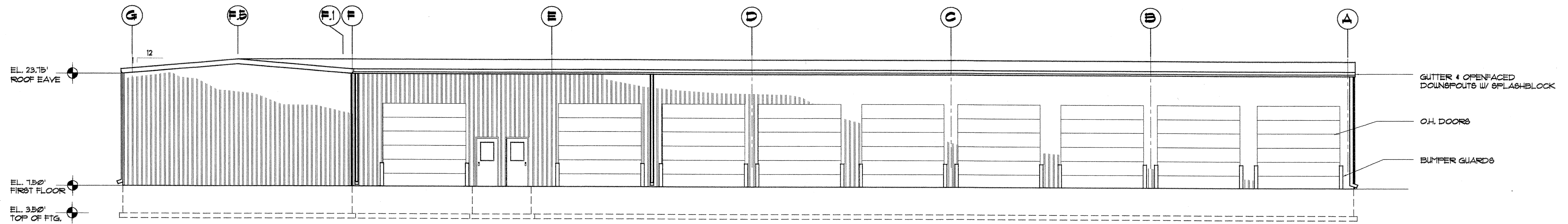


MOTOR EQUIPMENT STORAGE FACILITY
CITY OF MADISON
CITY ENGINEERING DIVISION
DANE COUNTY WISCONSIN

SITE PLAN
MOTOR EQUIPMENT STORAGE FACILITY

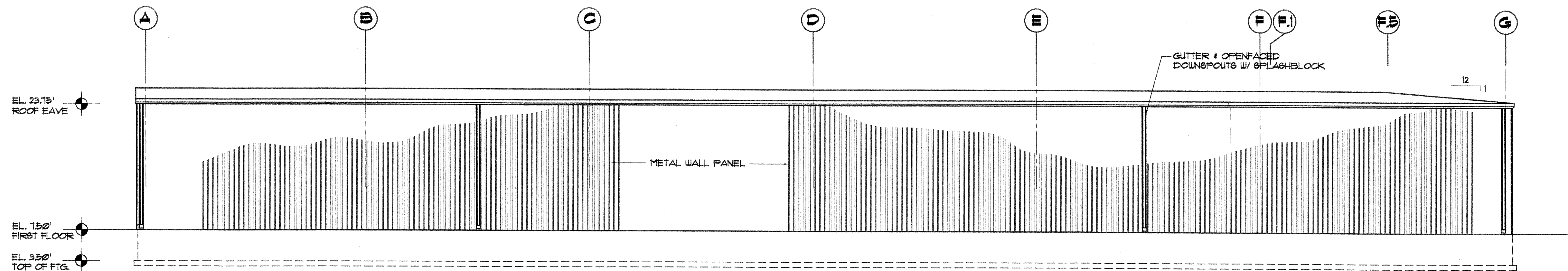
SHEET NO.
C1





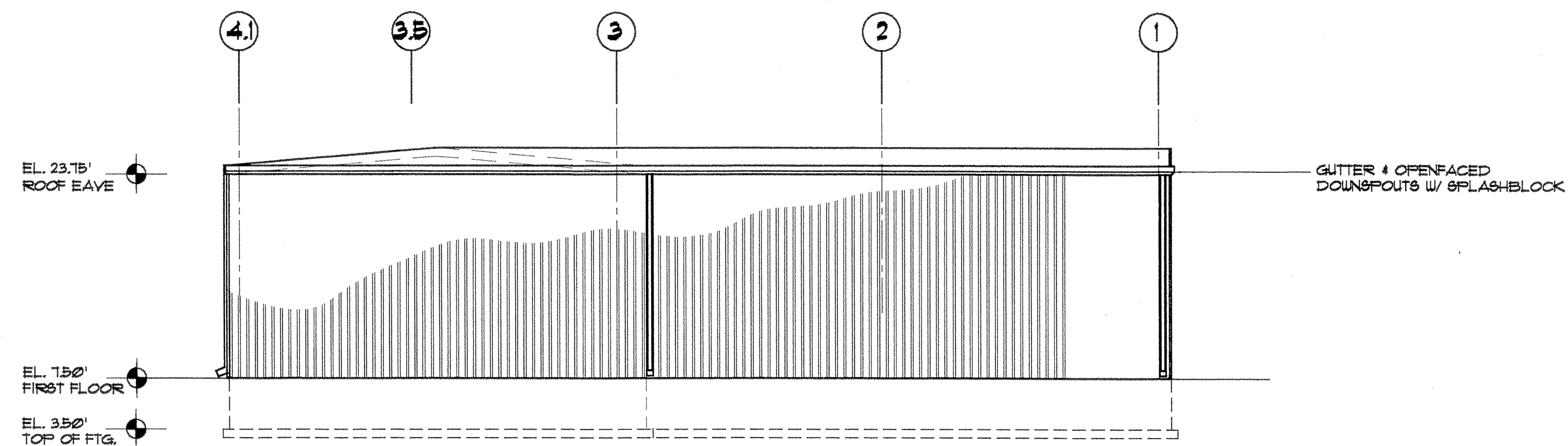
NORTH ELEVATION

SCALE: 1/8" = 1'-0"



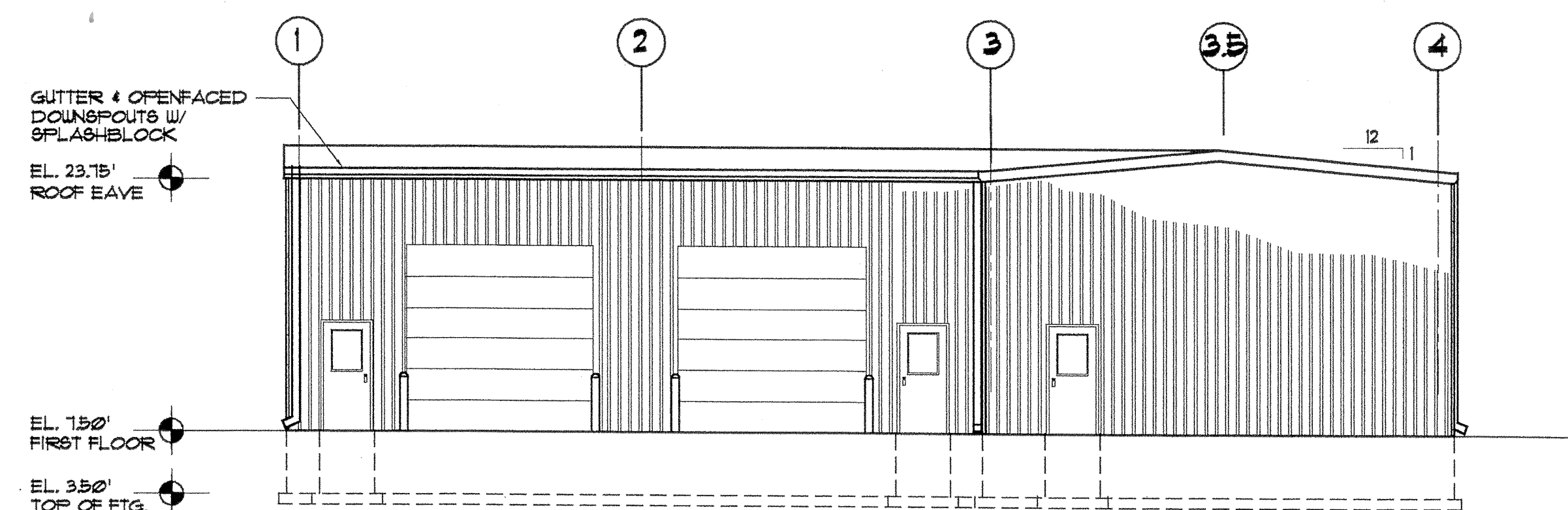
SOUTH ELEVATION

SCALE: 1/8" = 1'-0"



EAST ELEVATION

SCALE: 1/8" = 1'-0"



WEST ELEVATION

SCALE: 1/8" = 1'-0"

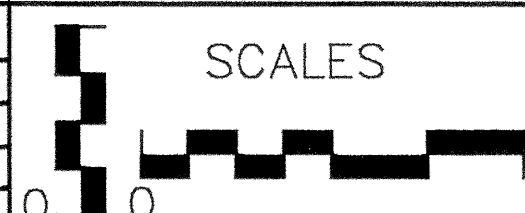


RECORD DRAWINGS OF COMPLETED CONSTRUCTION CONFORMING TO CONTRACTORS AND/OR OWNERS RECORDS.

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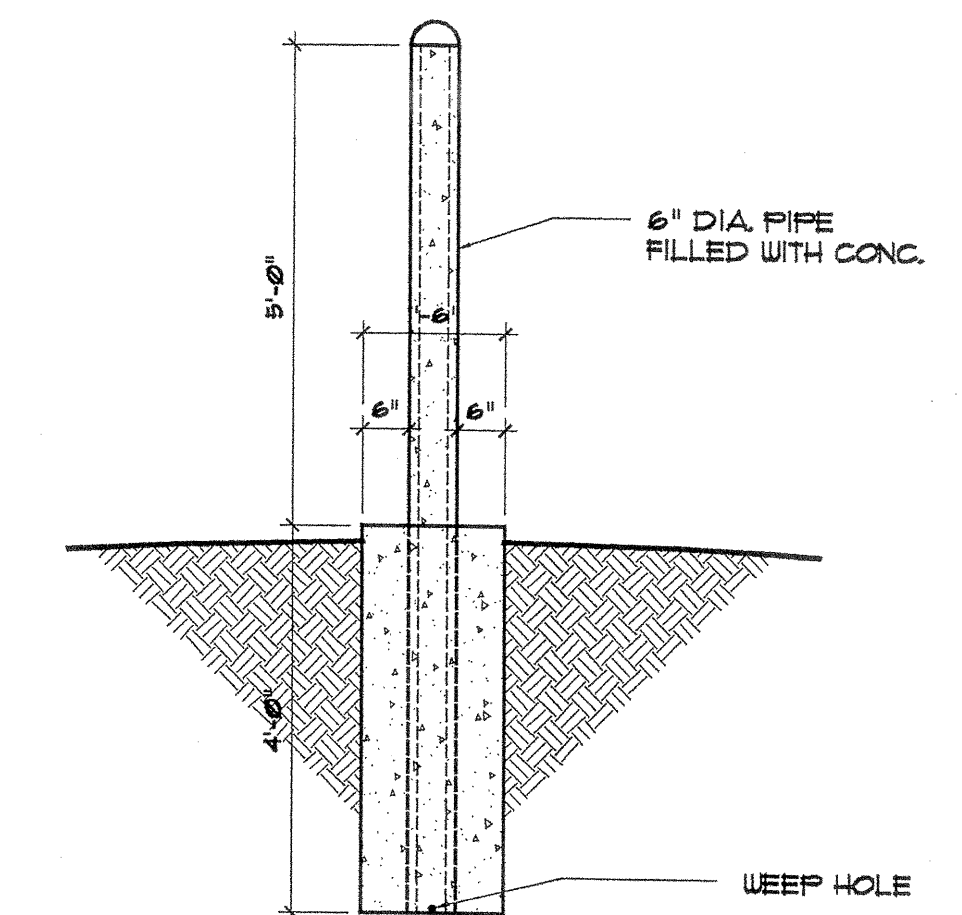
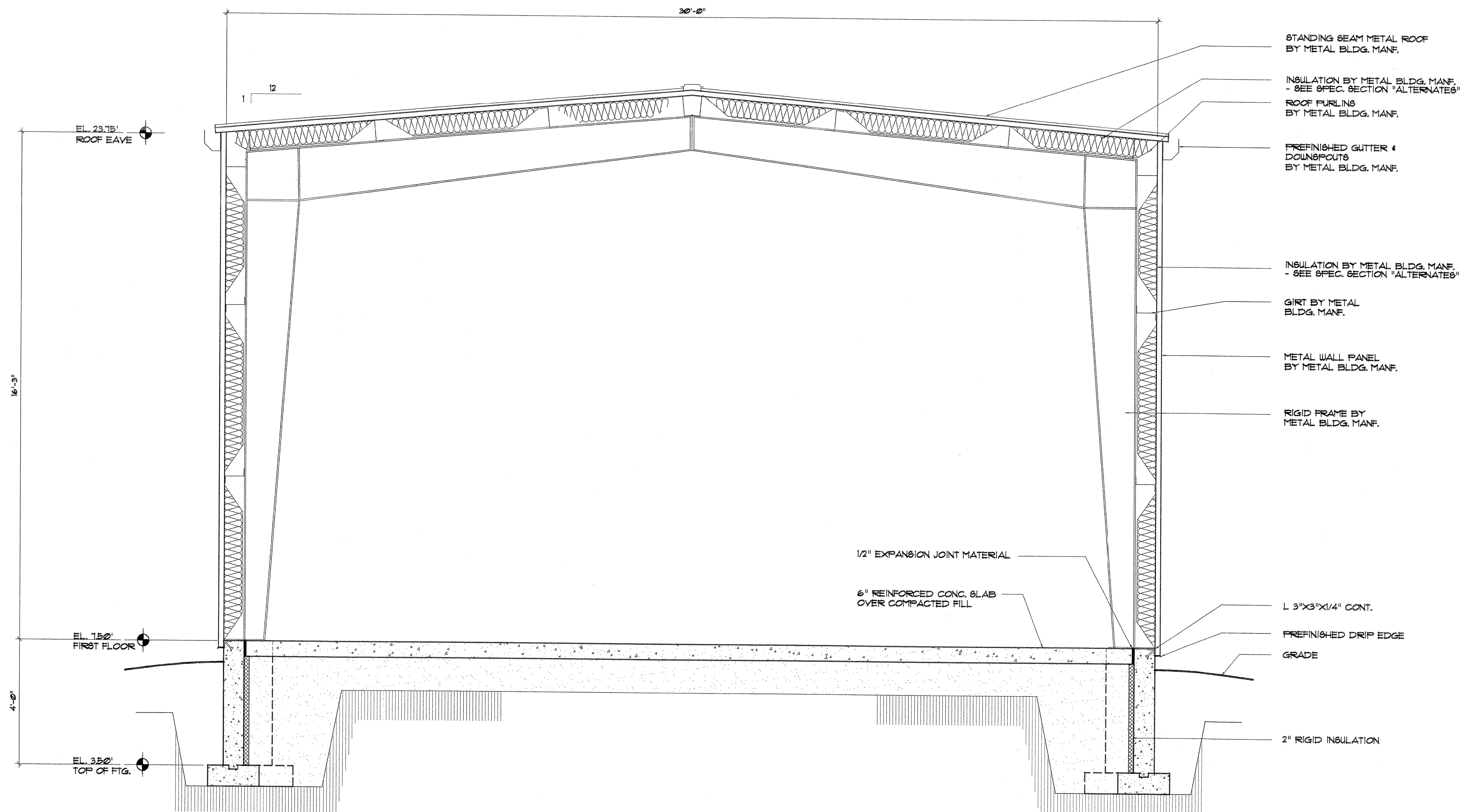
REVISIONS / REMARKS				PROJECT I.D.	98M101
NO.	DESCRIPTION	DATE	BY	SURVEY DATA	8M101BASE 3D
1				SURVEYED BY	BFO / DFC 99
2				DRAWN BY	
3				REVIEW / APP.	RK1 / DMS



MOTOR EQUIPMENT STORAGE FACILITY
CITY OF MADISON
CITY ENGINEERING DIVISION
DANE COUNTY WISCONSIN

BUILDING ELEVATIONS
NEW GARAGE BUILDING

SHEET NO.
A2



1 PIPE GUARD DETAIL
A3 SCALE: 1/2" = 1'-0"

A BUILDING SECTION
A3 SCALE: 1/2" = 1'-0"

NOTE: SEE STRUCTURAL FOR
REINFORCING & STEEL SIZES
METAL BLDG. MFR TO
PROVIDE INSULATION TO SATISFY
STATE OF WISCONSIN ENERGY
REQUIREMENTS

NOTE: METAL BLDG. MFR TO
PROVIDE INSULATION TO SATISFY
STATE OF WISCONSIN ENERGY

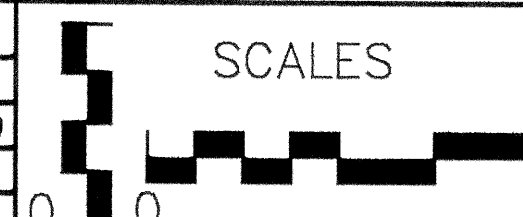


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REVISIONS / REMARKS				
NO.	DESCRIPTION	DATE	BY	

PROJECT ID.	98M101
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SURVEYED BY	BFO / DFC 99
DRAWN BY	
REVIEW / APP.	RK1 / DMS

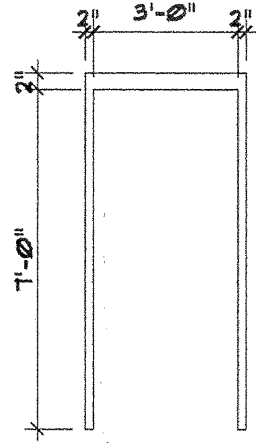


MOTOR EQUIPMENT
STORAGE FACILITY
CITY OF MADISON
CITY ENGINEERING DIVISION
DANE COUNTY WISCONSIN

BUILDING SECTION & DETAILS
NEW GARAGE BUILDING

SHEET NO.
A3

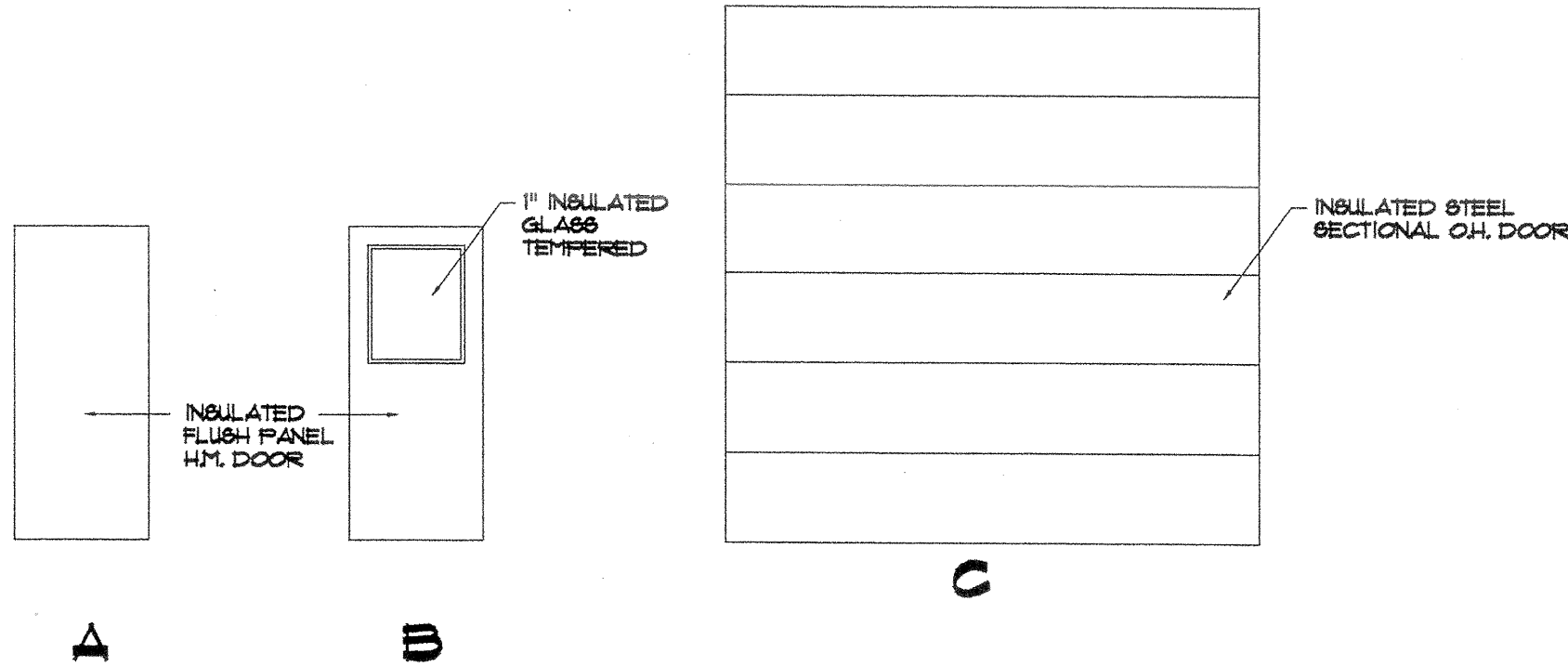
DOOR & FRAME SCHEDULE													
FRAME						DOOR							
NO.	TYPE	MATERIAL	FINISH TYPE	APPLIED	DETAIL	TYPE	SIZE	MATERIAL	FINISH TYPE	APPLIED	HARDWARE	REMARKS	
					HEAD	JAMB							
1	1	HOLLOW METAL	-	-	6/A4	5/A4	B	3'-0"X1'-0"	HOLLOW METAL	PAINT	FIELD	1	-
2	-	STEEL	PAINT	FIELD	-	3/A4	C	12'-0"X12'-0"	STEEL	PAINT	FIELD	-	-
3	-	STEEL	PAINT	FIELD	-	3/A4	C	12'-0"X12'-0"	STEEL	PAINT	FIELD	-	-
3	-	STEEL	PAINT	FIELD	-	3/A4	C	12'-0"X12'-0"	STEEL	PAINT	FIELD	-	-
4	-	STEEL	PAINT	FIELD	-	3/A4	C	12'-0"X12'-0"	STEEL	PAINT	FIELD	-	-
5	-	STEEL	PAINT	FIELD	-	3/A4	C	12'-0"X12'-0"	STEEL	PAINT	FIELD	-	-
6	-	STEEL	PAINT	FIELD	-	3/A4	C	12'-0"X12'-0"	STEEL	PAINT	FIELD	-	-
7	-	STEEL	PAINT	FIELD	-	3/A4	C	12'-0"X12'-0"	STEEL	PAINT	FIELD	-	-
8	-	STEEL	PAINT	FIELD	-	3/A4	C	12'-0"X12'-0"	STEEL	PAINT	FIELD	-	-
9	-	STEEL	PAINT	FIELD	-	3/A4	C	12'-0"X12'-0"	STEEL	PAINT	FIELD	-	-
10	1	HOLLOW METAL	-	-	6/A4	5/A4	B	3'-0"X1'-0"	HOLLOW METAL	PAINT	FIELD	1	-
11	1	HOLLOW METAL	-	-	6/A4	5/A4	B	3'-0"X1'-0"	HOLLOW METAL	PAINT	FIELD	1	-
12	-	STEEL	PAINT	FIELD	-	3/A4	C	12'-0"X12'-0"	STEEL	PAINT	FIELD	-	-
13	1	HOLLOW METAL	-	-	6/A4	5/A4	B	3'-0"X1'-0"	HOLLOW METAL	PAINT	FIELD	1	-
14	-	STEEL	PAINT	FIELD	-	3/A4	C	12'-0"X12'-0"	STEEL	PAINT	FIELD	-	-
15	-	STEEL	PAINT	FIELD	-	3/A4	C	12'-0"X12'-0"	STEEL	PAINT	FIELD	-	-
16	1	HOLLOW METAL	-	-	6/A4	5/A4	B	3'-0"X1'-0"	HOLLOW METAL	PAINT	FIELD	1	-
17	1	HOLLOW METAL	-	-	2/A4	1/A4	A	3'-0"X1'-0"	HOLLOW METAL	PAINT	FIELD	1	-



1

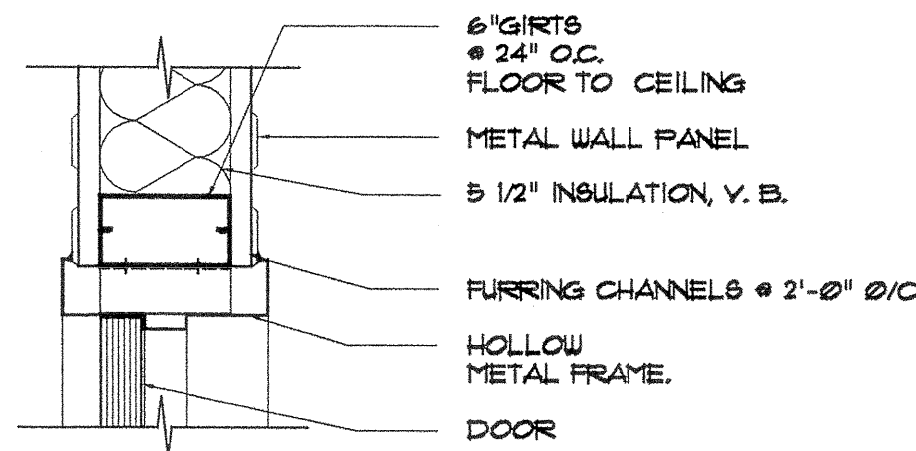
DOOR FRAME TYPES

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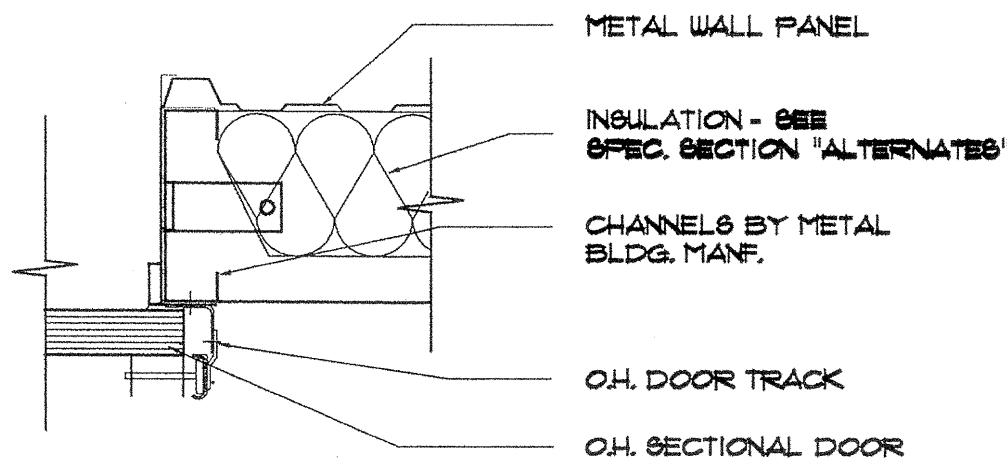


DOOR TYPES

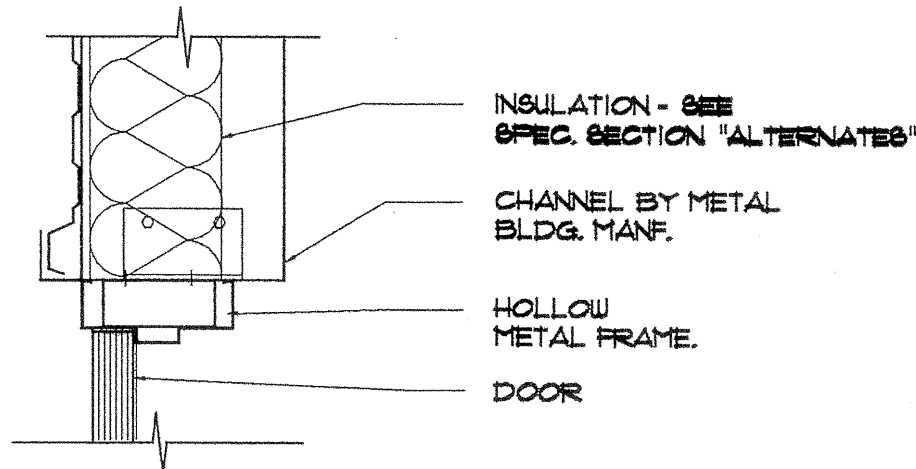
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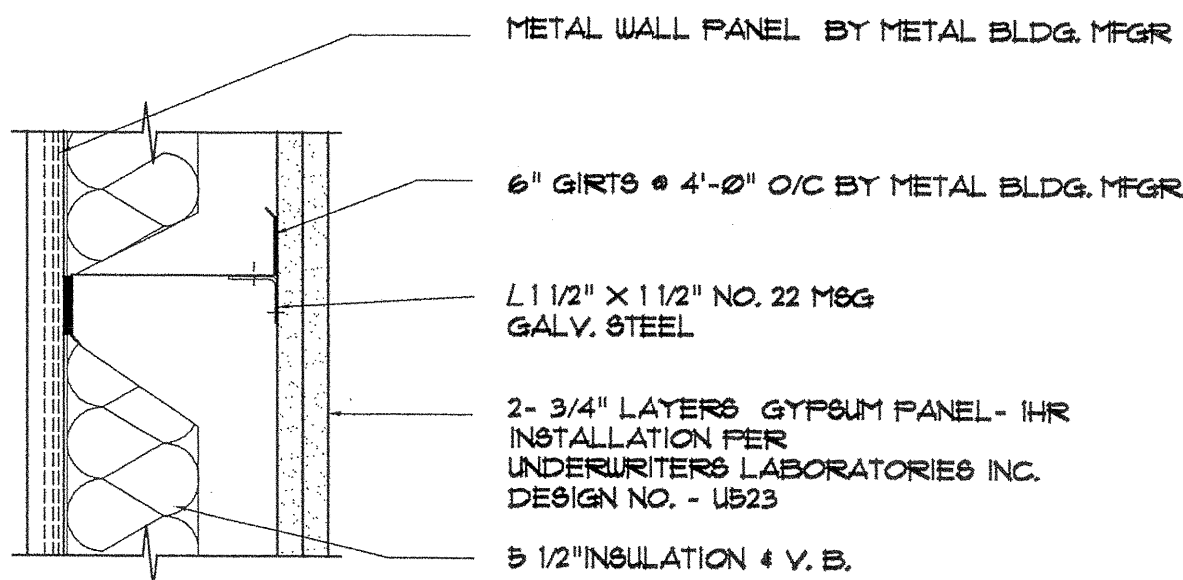
1 JAMB
SCALE: 1 1/2" = 1'-0"



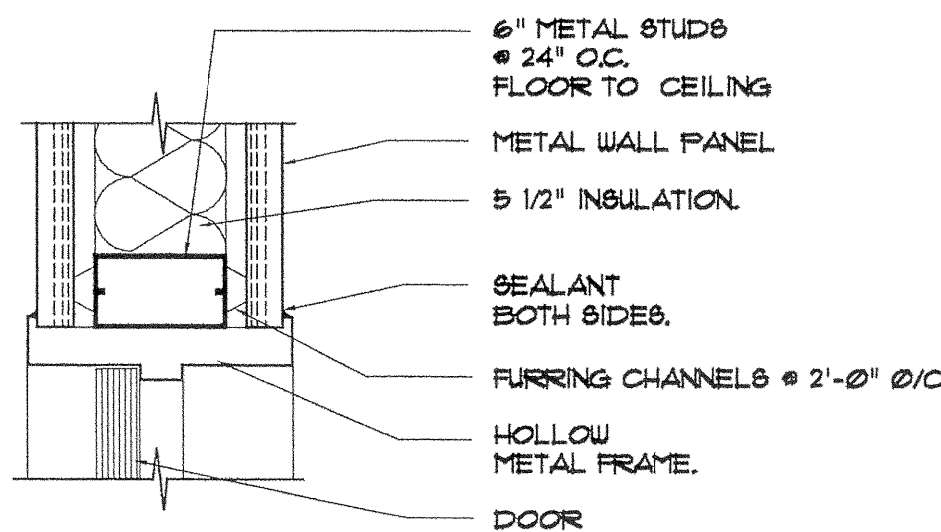
3 O.H. DOOR JAMB
SCALE: 1 1/2" = 1'-0"



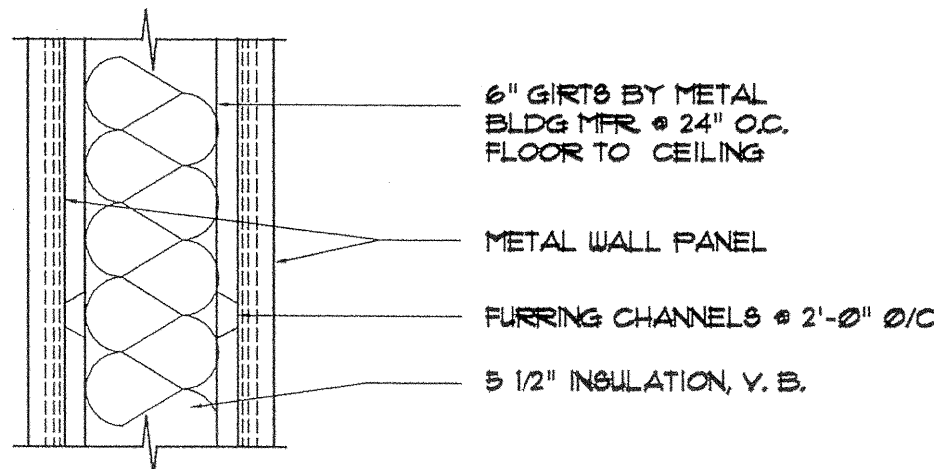
5 JAMB
SCALE: 1 1/2" = 1'-0"



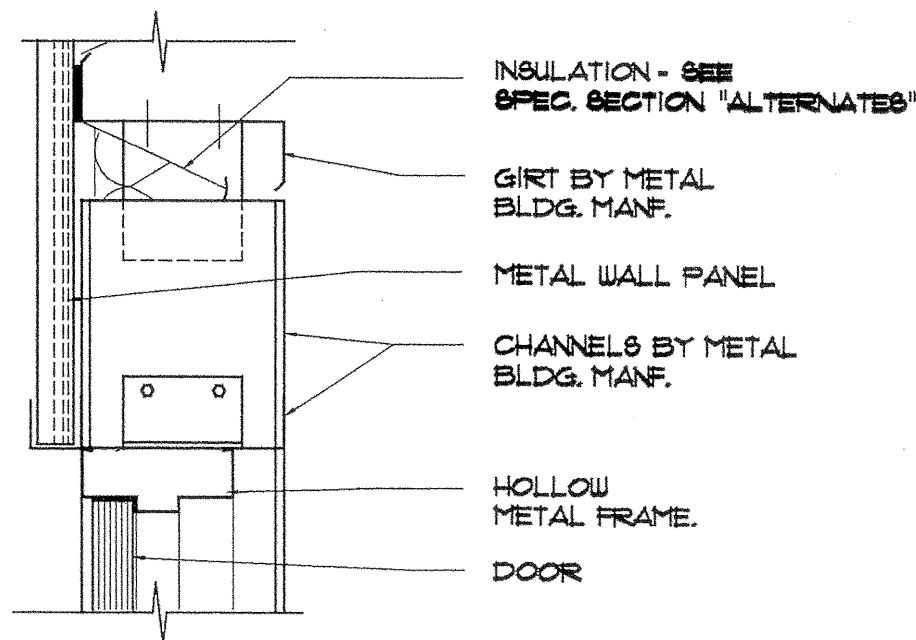
7 1HR FIRE WALL - NORTH
SCALE: 1 1/2" = 1'-0"



2 HEAD
SCALE: 1 1/2" = 1'-0"



4 PARTITION WALL
SCALE: 1 1/2" = 1'-0"



6 HEAD
SCALE: 1 1/2" = 1'-0"



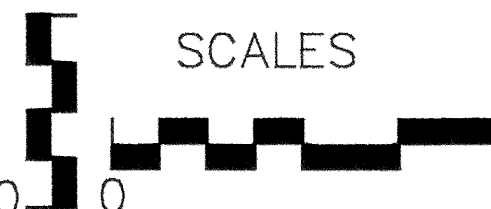
RECORD DRAWINGS OF COMPLETED CONSTRUCTION CONFORMING TO CONTRACTORS AND/OR OWNERS RECORDS.

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REVISIONS / REMARKS			
NO.	DESCRIPTION	DATE	BY

PROJECT I.D.	98M101
SURVEY DATA	8M101BASFC 3D
SURVEYED BY	BFO / DFC 99
DRAWN BY	
REVIEW/APP.	RK1 / DMS



MOTOR EQUIPMENT STORAGE FACILITY
CITY OF MADISON
CITY ENGINEERING DIVISION
DANE COUNTY WISCONSIN

DOOR SCHEDULE & DETAILS
NEW GARAGE BUILDING
SHEET NO. A4

GENERAL

- ALL MATERIALS, WORKMANSHIP AND DETAILS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE "WISCONSIN STATE BUILDING CODE".
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS TO VERIFY THE LOCATION AND DIMENSIONS OF CHANGES, INSERTS, OPENINGS, SLEEVES, REGLETTS, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE REVISED WITHOUT WRITTEN APPROVAL FROM THE PROJECT MANAGER.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS AND NOTIFY PROJECT MANAGER OF ANY DISCREPANCIES.
- THE TYPICAL DETAILS SHOWN ON THE DRAWINGS SHALL BE APPLICABLE TO ALL PARTS OF THE CONTRACT DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SAFETY DURING CONSTRUCTION.

DESIGN LOADS

ROOF LIVE LOADS: 30 PSF WITH ALLOWANCE FOR DRIFTING

WIND LOADS: 20 PSF PER WISCONSIN BUILDING CODE

FOUNDATIONS

- FOUNDATION WORK FOR THIS PROJECT SHALL CONSIST OF SPREAD FOOTINGS, CONTIGUOUS WALL FOOTINGS AND SLABS ON GRADE.
- ALL FOUNDATIONS SHALL BE SUPPORTED ON APPROVED EXISTING SUBGRADE OR APPROVED COMPACTED STRUCTURAL FILL HAVING AN ALLOWABLE BEARING CAPACITY OF 1500 PSF, AS INDICATED IN THE "GEOTECHNICAL ENGINEERING EXPLORATION AND ANALYSIS" REPORT PREPARED BY GILES ENGINEERING ASSOC. INC. MADISON, WI.
- THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED IN THE DRAWINGS, SPECIFICATIONS, TEST RESULTS OR GEOTECHNICAL REPORTS. THESE DATA ARE INCLUDED TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION AND TO REPRESENT CONDITIONS ONLY AT SPECIFIC LOCATIONS AT THE PARTICULAR TIME THE OBSERVATIONS WERE MADE.
- ALL EXTERIOR FOUNDATIONS SHALL BEAR ON APPROVED SUBGRADE AT A MINIMUM DEPTH OF 4'-0" BELOW ADJACENT FINISH EXTERIOR GRADE.
- FOOTING ELEVATIONS SHOWN ON THE DRAWINGS REPRESENT ESTIMATED DEPTHS AND ARE NOT TO BE CONSTRUED AS LIMITING THE AMOUNT OF EXCAVATION REQUIRED TO REACH SUITABLE BEARING MATERIAL.
- CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS AS REQUIRED TO PREVENT HORIZONTAL MOVEMENT OR VERTICAL SETTLEMENT WHICH WILL ENDANGER ADJACENT STRUCTURES, STREETS OR UTILITIES.
- CONTRACTOR SHALL PROVIDE CONTROL OF SURFACE AND SUBSURFACE WATER PROPERLY TO INSURE THAT ALL FOUNDATION WORK IS DONE IN THE DRY.
- NO FOUNDATION(S) SHALL BE PLACED ON FROZEN SUBGRADE.
- PROTECT IN-PLACE FOUNDATIONS AND SLABS-ON-GRADE FROM FROST PENETRATION UNTIL THE PROJECT IS COMPLETE.
- FOUNDATION WALLS SHALL BE BRACED DURING BACKFILLING AND COMPACTION OPERATIONS. BRACING SHALL BE LEFT IN POSITION UNTIL PERMANENT STRUCTURAL SUPPORT SYSTEM IS INSTALLED AND APPROVED BY PROJECT MANAGER.
- BACKFILLING SHALL BE DONE SIMULTANEOUSLY ON BOTH SIDES OF WALL.

CONCRETE

- CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING STANDARDS:
ACI 301 - "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
ACI 308 - "MANUAL OF CONCRETE PRACTICE"
ACI 318 - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
ACI 318.1 - 95
- CONCRETE SHALL HAVE A MINIMUM 28-DAY ULTIMATE COMPRESSIVE STRENGTH AS FOLLOWS:

SLABS-ON-GRADE	4,000 PSI
FOOTINGS AND WALLS	3,000 PSI
- CONCRETE MIX DESIGN (INCLUDING AGGREGATE SIZE, WATER/CEMENT RATIO, AIR ENTRAINMENT, ADMIXTURES AND SLUMP) SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY WORK. MAXIMUM WATER/CEMENT RATIO PERMITTED IS 0.48.
- CONCRETE TO BE EXPOSED TO THE WEATHER SHALL HAVE AIR-ENTRAINING ADMIXTURE AS REQUIRED TO PROVIDE 4-6% AIR ENTRAINMENT.
- CONCRETE STRENGTH SHALL BE EVALUATED ACCORDING TO METHOD 1 OR METHOD 2 AS DESCRIBED IN ACI 301. THE RESULTS OF THESE ANALYSES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ANY WORK.
- CONTRACTOR SHALL MAKE PROVISIONS TO ALLOW AN INDEPENDENT TESTING AGENCY, HIRED BY THE OWNER, TO CAST 4 TEST CYLINDERS FOR EACH 500 CUBIC YARDS OF CONCRETE PLACED OR FOR ANY ONE DAY'S OPERATION. TESTING AGENCY SHALL BE RESPONSIBLE FOR CASTING AND CURING SPECIMENS IN CONFORMANCE TO ASTM C31 AND TESTING SPECIMENS IN CONFORMANCE TO ASTM C39.
- CONSTRUCTION JOINTS SHOWN ON THE CONTRACT DRAWINGS SHALL NOT BE ALTERED WITHOUT WRITTEN APPROVAL OF THE PROJECT MANAGER.
- DRAWINGS SHOWING THE LOCATION OF CONSTRUCTION JOINTS, CONTROL JOINTS AND PLACING SEQUENCE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE PREPARATION OF REINFORCING SHOP DRAWINGS.
- GROUT USED TO SET PLATES SHALL BE NON-SHRINK AND NON-METALLIC.
- CONTRACTOR SHALL USE SMOOTH FORMS FOR EXPOSED CONCRETE SURFACES. BOARD FORMS MAY BE USED FOR UNEXPOSED CONCRETE SURFACES. EARTH FORMS ARE FORBIDDEN.
- PROVIDE A MINIMUM OF 6" COMPACTED GRANULAR FILL UNDER ALL SLABS-ON-GRADE.
- FLATWORK CONTRACTOR SHALL SUBMIT FLOOR SLAB PLACEMENT SEQUENCE TO ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK.
- FLOOR FLATNESS AND LEVELNESS: CONCRETE SLABS-ON-GRADE SHALL HAVE MINIMUM F NUMBERS OF FF 35/FL 25 AS RECOGNIZED BY THE MOST CURRENT VERSION OF ASTM E 1155 AND ACI 302.1. SEE SPECIFICATIONS FOR FURTHER RESTRICTIONS IF APPLICABLE.

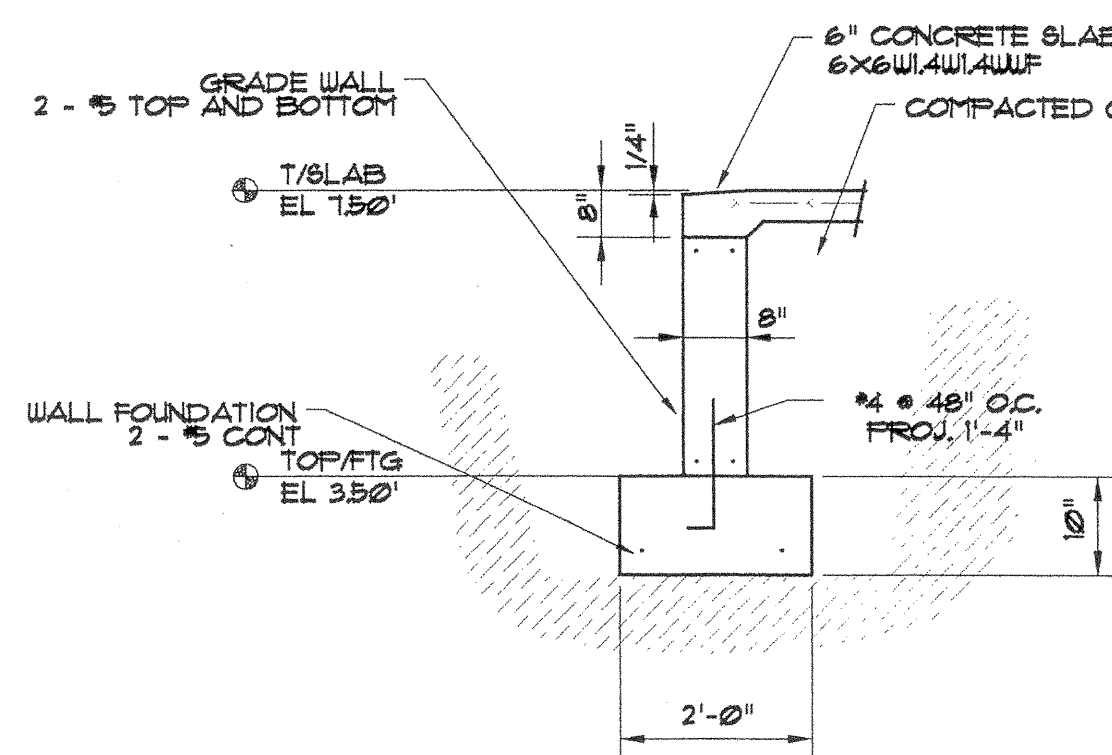
REINFORCEMENT

- DETAILING, FABRICATION AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING:
ACI 318 - "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
ACI 318 - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
MSP2 - "CRS1 MANUAL OF STANDARD PRACTICE"
AISC D14 - "STRUCTURAL WELDING CODE - REINFORCING STEEL"
WRI - "WELDED WIRE FABRIC MANUAL OF STANDARD PRACTICE"
- STEEL REINFORCING BARS SHALL CONFORM TO ASTM A615 (GRADE 60), DEFORMED, WELDED WIRE FABRIC SHALL CONFORM TO ASTM A66.
- REINFORCEMENT FABRICATOR SHALL PROVIDE AND SCHEDULE ON SHOP DRAWINGS ALL REQUIRED REINFORCING STEEL AND THE NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN PLACE AT THE CORRECT LOCATIONS.
- CLEARANCES FOR REINFORCEMENT: CONCRETE PLACED DIRECTLY ON EARTH (FOOTINGS, SLABS, ETC.) 3" FROM BOTTOM. ALL OTHER CONCRETE PROVIDE 2" CLEAR TO REINFORCING.
- CONTRACTOR SHALL REFER TO TYPICAL DETAILS SHOWN ON CONTRACT DRAWINGS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
- WHERE REINFORCEMENT IS REQUIRED IN SECTIONS, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER SECTION APPLIES.
- WELDED WIRE FABRIC SHALL LAP A MINIMUM OF 6" AND BE TIED TOGETHER.
- CONTRACTOR SHALL NOTIFY ENGINEER OF COMPLETION OF REINFORCEMENT INSTALLATION AND ALLOW AT LEAST 24 HOURS BEFORE SCHEDULED CONCRETE PLACEMENT FOR PROJECT MANAGER TO INSPECT REINFORCEMENT.

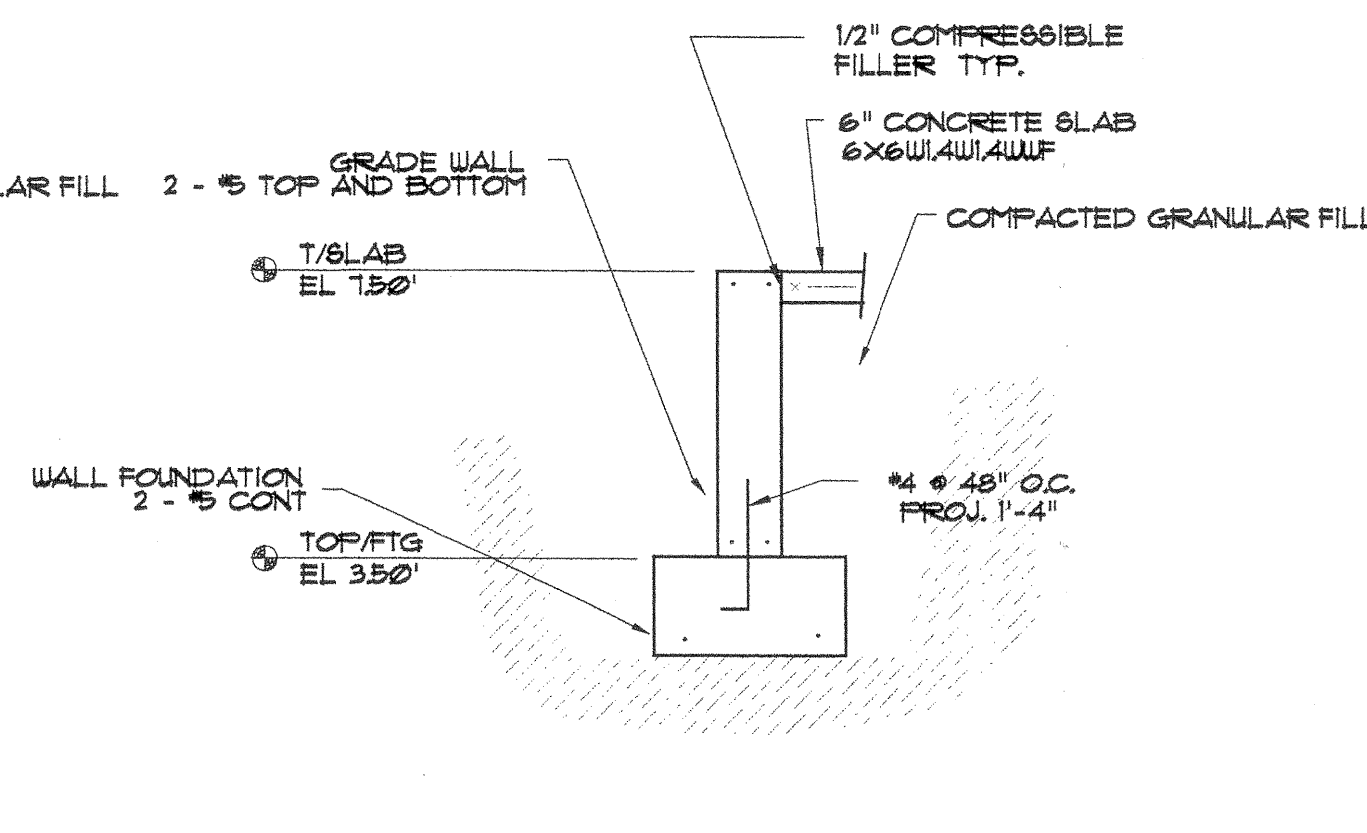
REINFORCEMENT DEVELOPMENT AND SPLICE LENGTH SCHEDULE										
Fy = 60 KSI f'c = 3000 PSI										
BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11	
CLASS A SPLICE LENGTH										
TOP BARS	22	29	36	43	63	72	81	91	101	
OTHERS	17	22	28	33	48	55	62	70	78	
CLASS B SPLICE LENGTH										
TOP BARS	28	37	47	56	81	93	105	118	131	
OTHERS	22	29	36	43	63	72	81	91	101	

NOTES

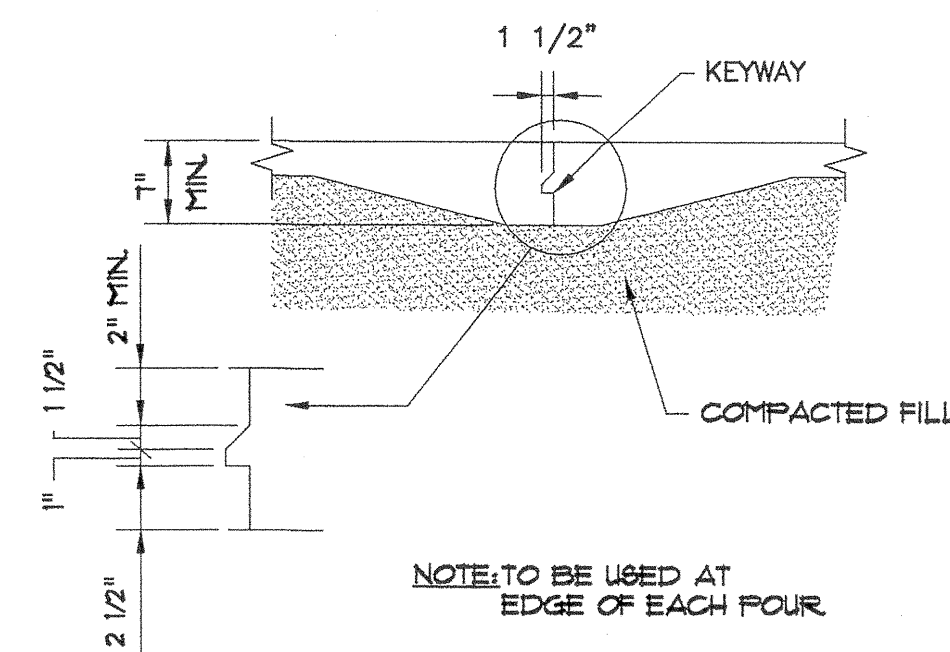
- ALL SPLICE LENGTHS SHALL BE CLASS B UNLESS NOTED OTHERWISE.
- TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS AND NORMAL WEIGHT CONCRETE.
- TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICE LENGTHS ARE CALCULATED PER ACI 318-95, SECTIONS 12.2 AND 12.5, RESPECTIVELY. TABULATED VALUES FOR BEAMS AND COLUMNS ARE BASED ON TRANSVERSE REINFORCEMENT AND CONCRETE COVER MEETING MIN. CODE REQUIREMENTS. LENGTHS ARE IN INCHES.
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
- SPLICE AND DEVELOPMENT LENGTHS IN THIS SCHEDULE ARE BASED ON CASE 1 PER CRS1 (1996):
BEAMS OR COLUMNS: COVER AT LEAST 10 BARS AND C-C. SPACING AT LEAST 20 BARS
ALL OTHERS: COVER AT LEAST 10 BARS AND C-C. SPACING AT LEAST 30 BARS



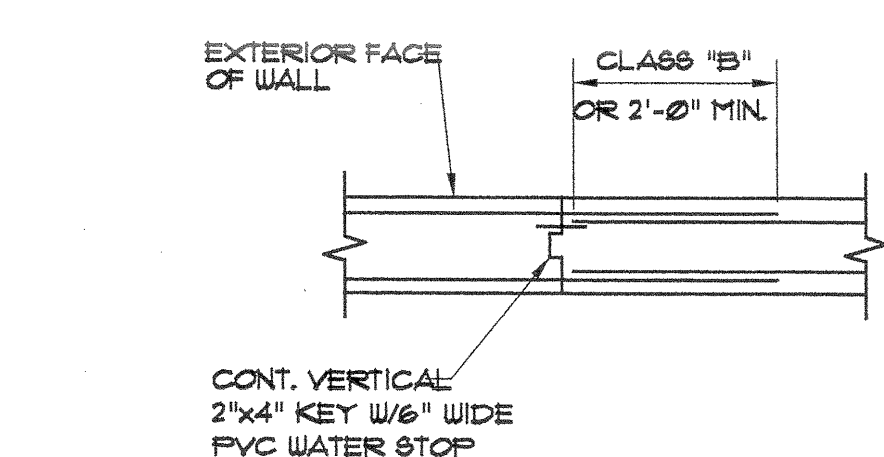
7 SECTION
S-2



8 SECTION
S-2



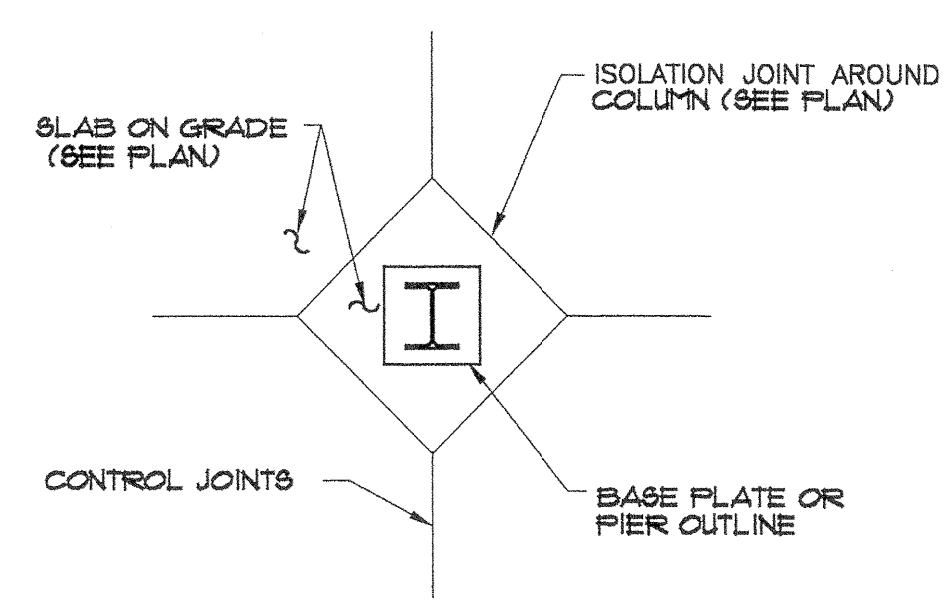
1 KEYWAY
S-2



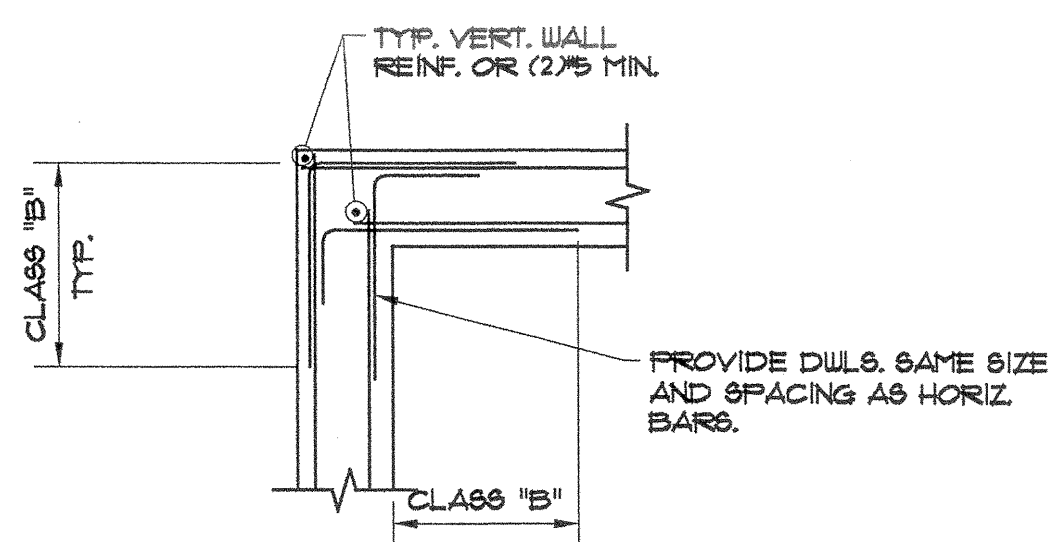
2 CONSTRUCTION JOINT
S-2



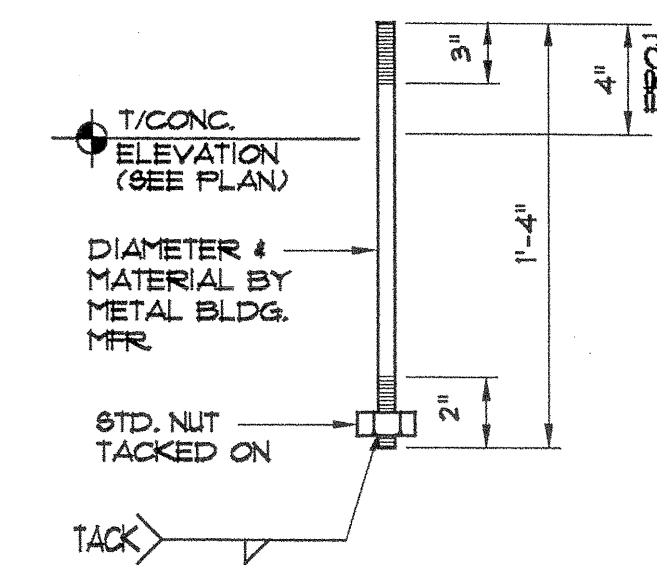
3 VERTICAL CONSTR JOINT
S-2



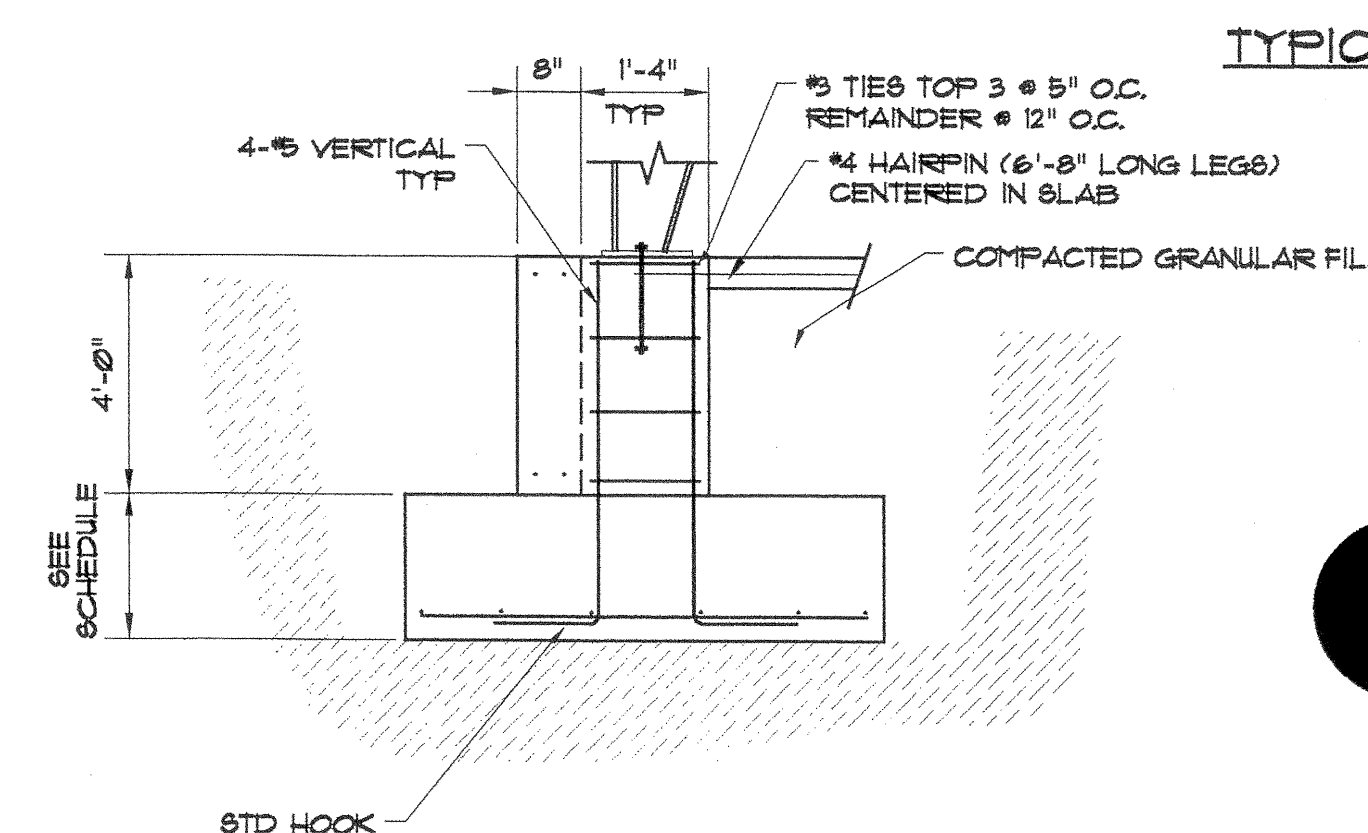
4 COL. ISOLATION DETAIL
S-2



5 TYPICAL CORNER REINF.
S-2



6 TYPICAL ANCHOR BOLT DETAIL
S-2



9 SECTION
S-2

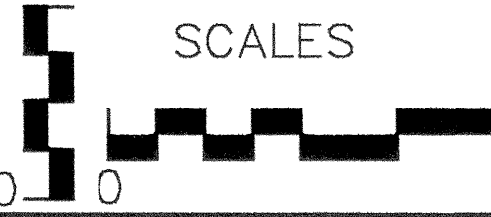


Larson
ENGINEERING OF WISCONSIN
1500 N. Casaloma Drive, Suite 302
Appleton, WI 54913-8219
Phone: 920-734-9867
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E-Mail: info@larsonwi.com

RECORD DRAWINGS OF COMPLETED CONSTRUCTION TO BE SUBMITTED TO CONTRACTORS AND/OR OWNERS RECORDS.
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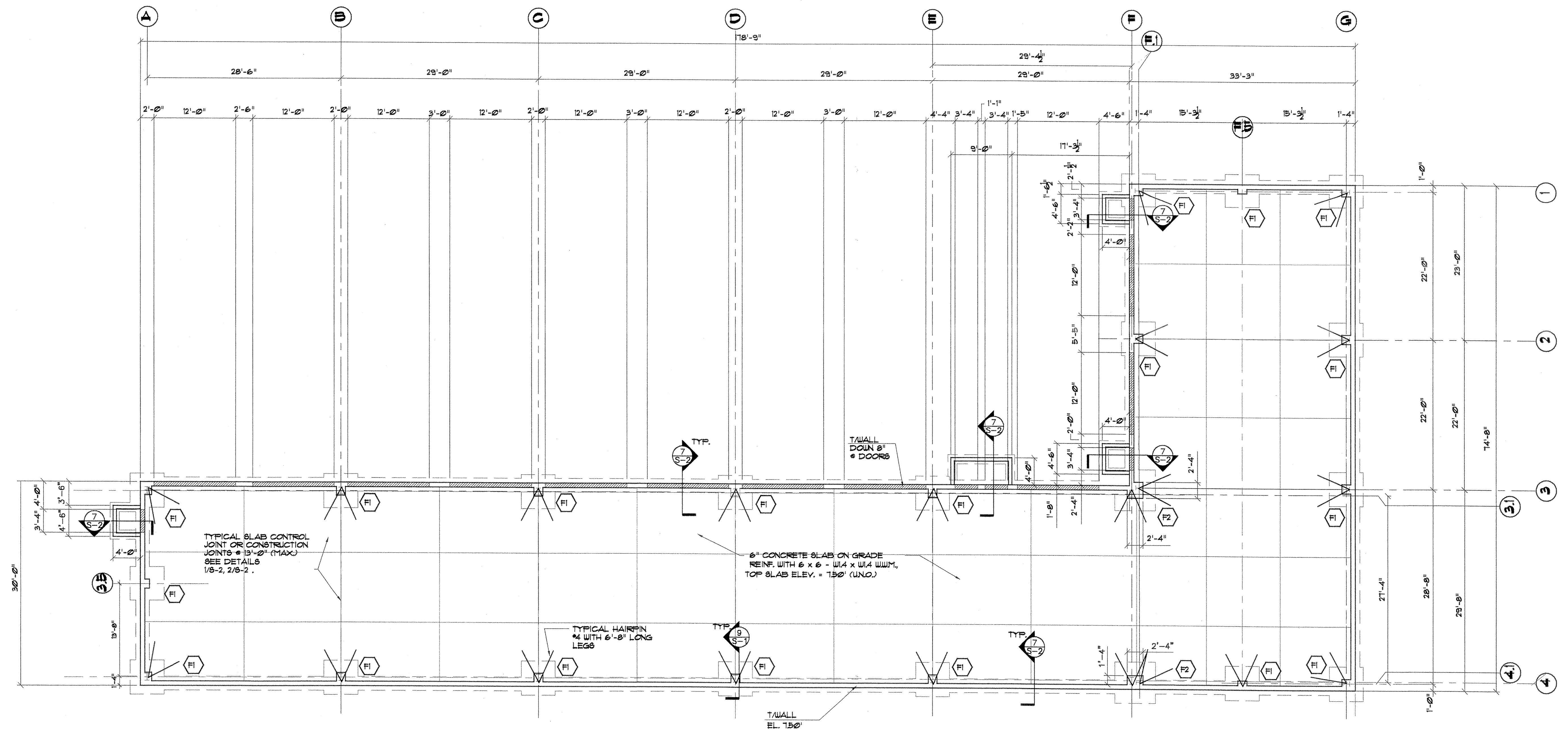
REVISIONS / REMARKS				PROJECT I.D.	98M101
NO.	DESCRIPTION	DATE	BY	SURVEY DATA	BM101BASE 3D
1				SURVEYED BY	BFO / DFC 99
2				DRAWN BY	
3				REVIEW/APP.	RK1 / DMS



MOTOR EQUIPMENT STORAGE FACILITY
CITY OF MADISON
CITY ENGINEERING DIVISION
DANE COUNTY

SECTIONS & NOTES
NEW GARAGE BUILDING
WISCONSIN

SHEET NO.
S1

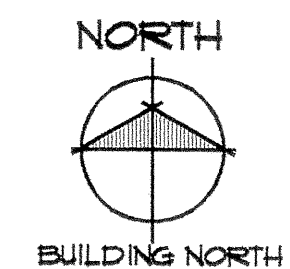


FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F-1	5'-0" x 5'-0" x 16"	(5) #6 EACH WAY
F-2	6'-0" x 6'-0" x 18"	(5) #6 EACH WAY
* REFERENCED TO FOUNDATION PLAN		

FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

- REFERENCE DRAWING 8-2 FOR GENERAL NOTES AND SECTIONS.



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MILLENNIUM
ARCHITECTS • DESIGNERS

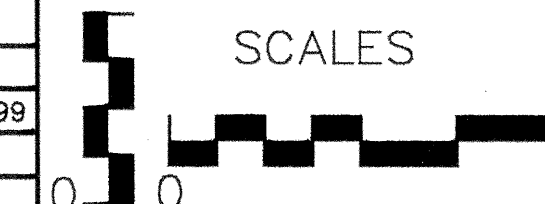
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REVISIONS / REMARKS			
NO.	DESCRIPTION	DATE	BY

PROJECT I.D.	98M101
SURVEY DATA	8M101BAS 3D
SURVEYED BY	BFO / DFC 99
DRAWN BY	
REVIEW/APP.	RK1 / DMS



Foth & Van Dyke
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DANE COUNTY

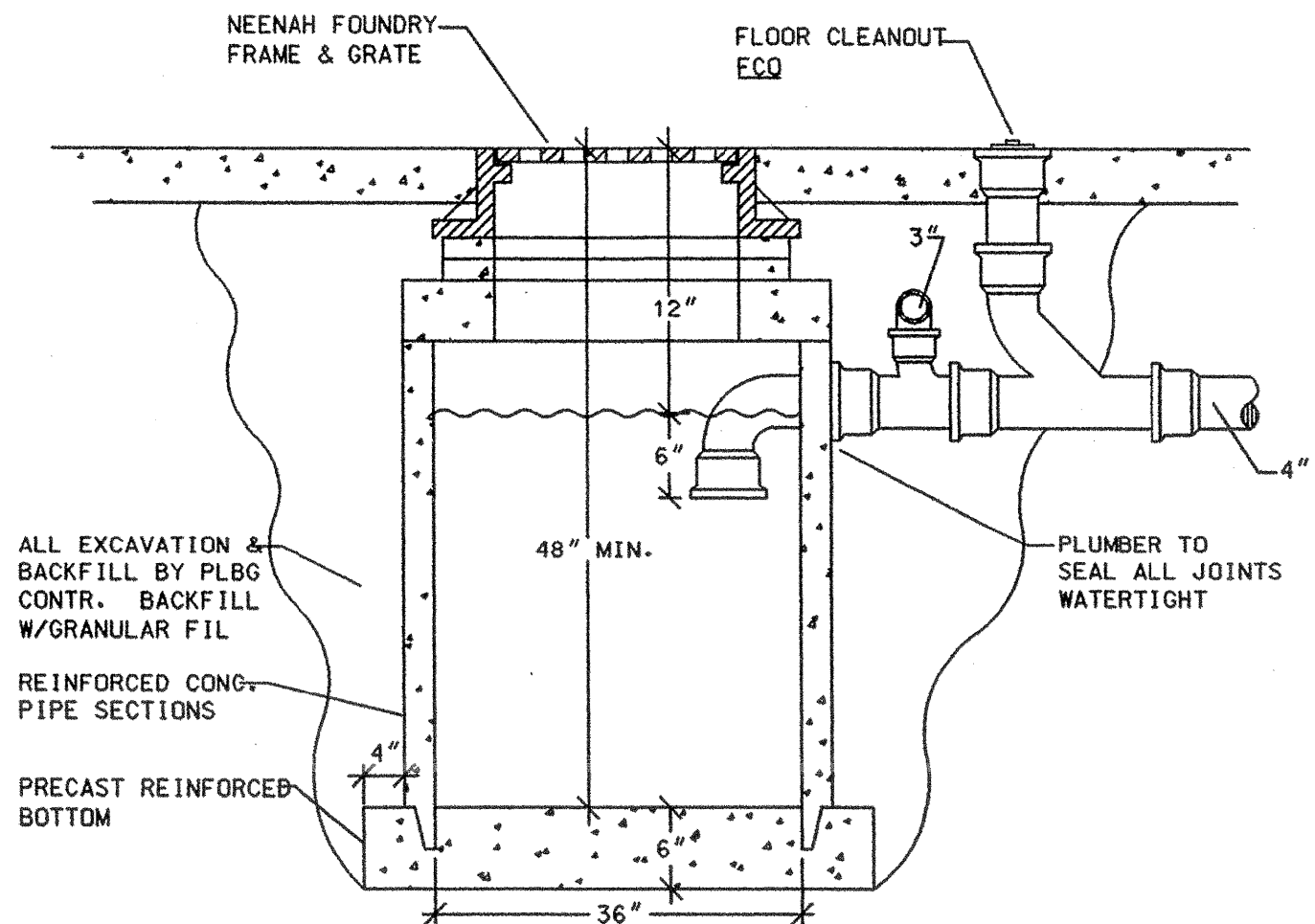
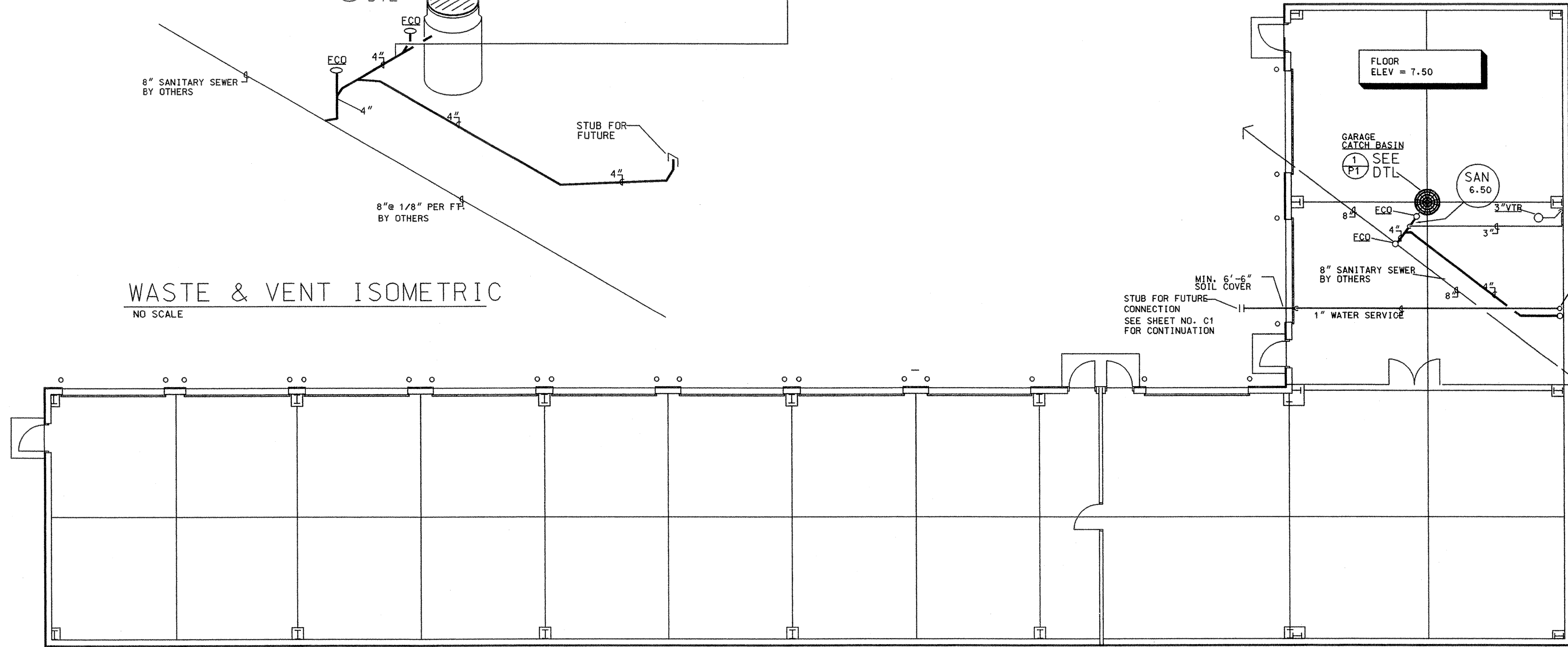
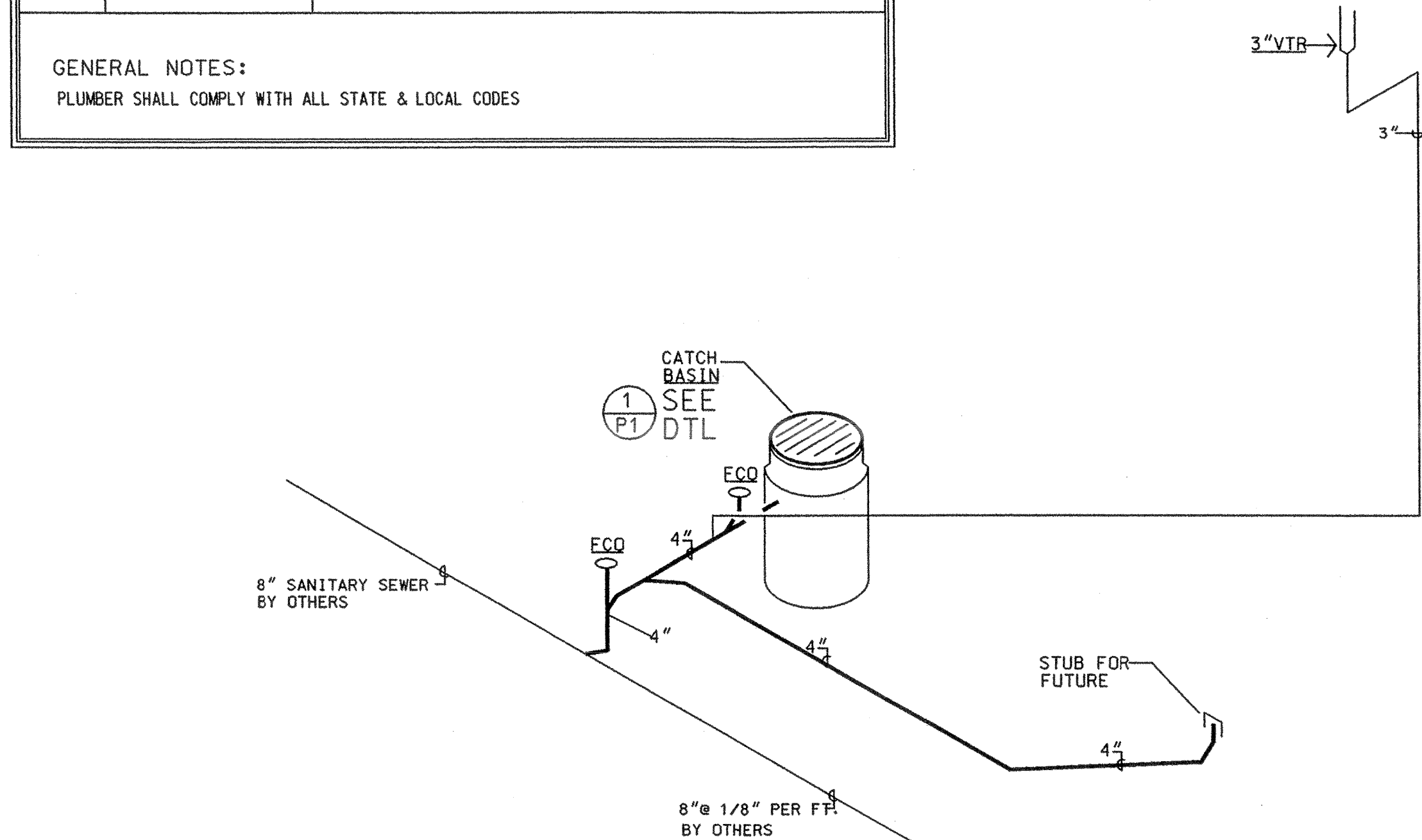
MOTOR EQUIPMENT
STORAGE FACILITY
CITY OF MADISON
CITY ENGINEERING DIVISION

WISCONSIN

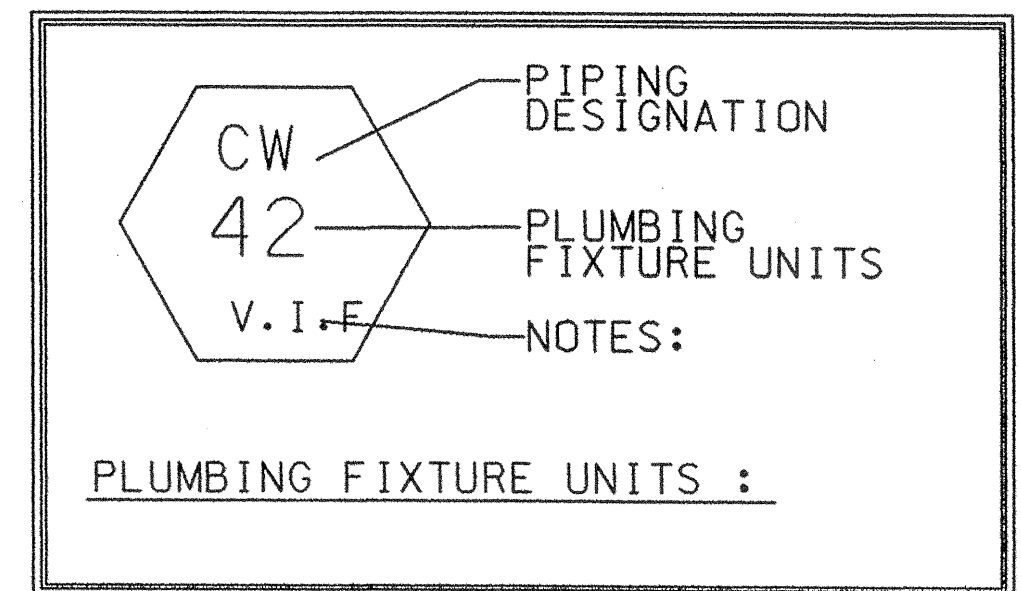
FOUNDATION PLAN
NEW GARAGE BUILDING

SHEET NO.
S2

PLUMBING FIXTURE & EQUIPMENT SCHEDULE		
TAG	DESCRIPTION	MAKE & MODEL
FCO	FLOOR CLEANOUT	SCHIER SS-1013-BWB
GENERAL NOTES: PLUMBER SHALL COMPLY WITH ALL STATE & LOCAL CODES		



PLUMBING SYMBOL KEY:	
TAG	DESCRIPTION
---	UNDERGROUND SANITARY SEWER
---	UNDERGROUND STORM SEWER
---	SOIL & WASTE PIPING ABOVE FLOOR
RC	RAIN CONDUCTOR PIPING
---	VENT PIPING
CW	COLD WATER
HW	HOT WATER
HWR	HOT WATER RETURN
---	BALL VALVE
---	CHECK VALVE
---	TRAP
UP	PIPE RISERS
RC	RAIN CONDUCTOR PIPING
CO	CLEANOUT PLUG
VTR	VENT THRU ROOF
VIF	VERIFY IN FIELD
TOF	TOP OF FOOTING
BOF	BOTTOM OF FOOTING



DATE: 11/11/11 TIME: 17:20:10

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REVISIONS / REMARKS				PROJECT I.D.	98M101
NO.	DESCRIPTION	DATE	BY	SURVEY DATA	8M101BASE.3D
1				SURVEYED BY	BEO / DEC 99
2				DRAWN BY	JPS
3				REVIEW/APP.	JRK1 / DMS

PLUMBING FIRST FLOOR PLAN



MOTOR EQUIPMENT STORAGE FACILITY
CITY OF MADISON
CITY ENGINEERING DIVISION
DANE COUNTY WISCONSIN

PLUMBING PLAN
NEW GARAGE BUILDING

SHEET NO.
P1



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FUME MONITORING/CONTROL SYSTEMS

CARBON MONOXIDE MONITOR (CO)
N8GV-NATIONAL SYSTEM
(2) CO-SENSORS/DETECTOR MODEL CO8-30R
PROVIDE PROTECTIVE COVER/tamper and weather)
GAS DETECTION LEVEL:
HIGH LEVEL 50 ppm - ALARM ACTIVATED
AUDIBLE ALARM, LED INDICATORS, AUTO RESET
POWER SUPPLY - 120 VAC
POWER TRANSFORMER BY HVAC CONTR. (When required)
WIRE UNITS BACK TO AUTOMATIC EXHAUST FAN
CONTROLLER LOCATED IN MAINT ROOM.
INSTALLED PER CODE.

CO SENSOR/DETECTOR AUTOMATIC FAN CONTROLLER

N8GV-NATIONAL SYSTEM (Air Flow, Inc.)
AUTO FAN CONTROLLER MODEL 86103-3A
WIRE INPUT FROM 2-CO SENSORS/DETECTORS
POWER INPUT 120 VAC, 2 AMP
RELAY RATING 208 VOLTS, 10 AMP
INTERLOCK WITH EF-142 AND AUTO DAMPER SYSTEM
INSTALLED PER CODE

NITROGEN DIOXIDE MONITOR (NO2)

N8GV-NATIONAL SYSTEM (Air Flow, Inc.)
(2) NO2-SENSOR MODEL VA-20M
GAS DETECTION LEVEL:
LOW LEVEL 1 ppm - RELAY ACTIVATED
HIGH LEVEL 3 ppm - ALARM ACTIVATED
AUDIBLE ALARM, LED INDICATORS, AUTO RESET
POWER SUPPLY - 24 VAC
POWER TRANSFORMER BY HVAC CONTR.
INTERLOCK MONITOR WITH EF-142 AND RELATED DAMPERS
INSTALLED PER CODE

TIME CLOCK

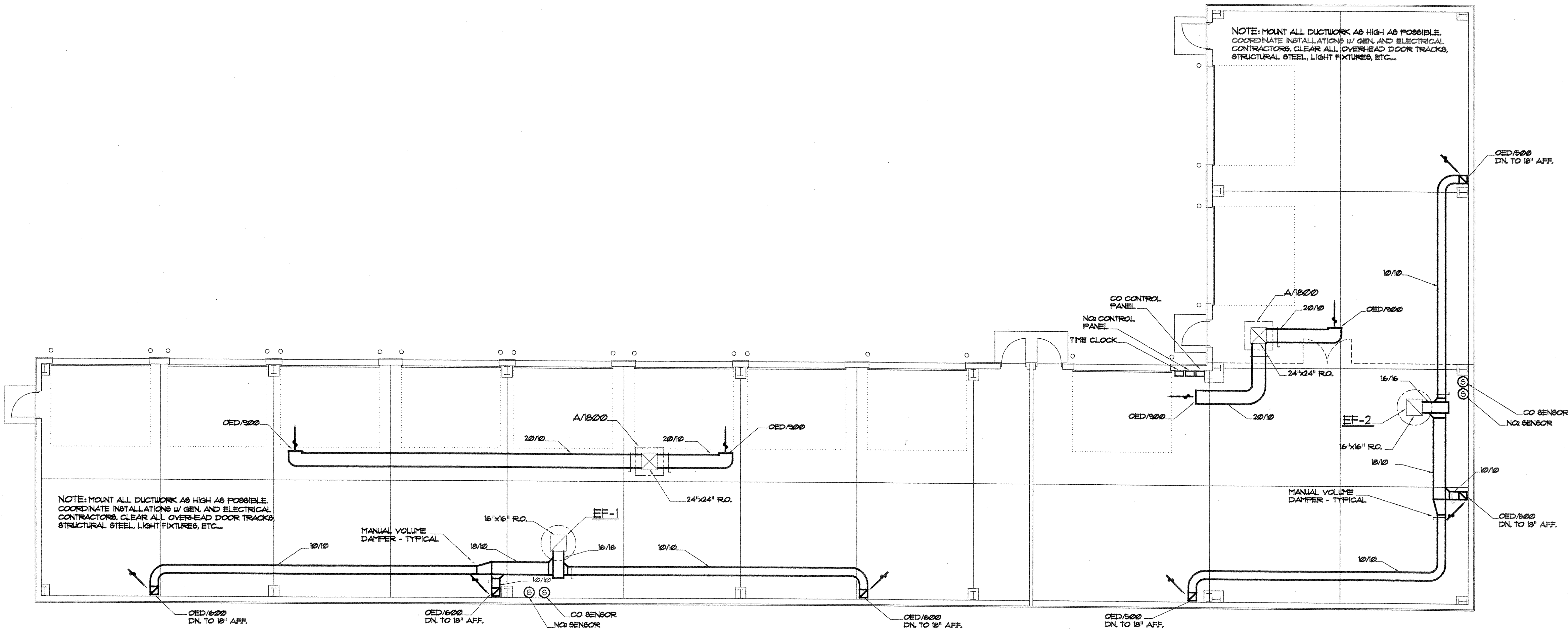
HONEYWELL TIMER SERIES 86005A, 120 VOLT/1
AUTOMATICALLY TIMED ELECTRICAL SWITCHING
MINIMUM 12 SETS OF TRIPPERS TO OPERATE
EF-142 AND OA DAMPERS 25 MINUTES EVERY 2 HOURS
OR 5hrs/24 hr. PERIOD (CODE COMPLIANT).

EXHAUST FAN SCHEDULE										BASED ON: PENN VENTILATOR	
TAG	SERVE	TYPE	MODEL	CFM	SP.	HP	VOLT/PH.	ZONE	REMARKS		
EF-1	GARAGE-WEST	ROOF	FX-10B	1000	375	1440	1/2	208-230/3	14.6	INTERLOCK w/TIMECLOCK, CO and NO2 DETECTION SYSTEMS, MOTORIZED EXHAUST and INTAKE HOOD DAMPERS	
EF-2	GARAGE-EAST	ROOF	FX-10B	1000	375	1340	1/2	208-230/3	13.6	INTERLOCK w/TIMECLOCK, CO and NO2 DETECTION SYSTEMS, MOTORIZED EXHAUST and INTAKE HOOD DAMPERS	

NOTES: MANUFACTURER SUPPLIED PREFABRICATED ROOF CURB - PITCHED METAL ROOF. MANUFACTURER UNIT MOUNTED ELECTRICAL POWER DISCONNECT.

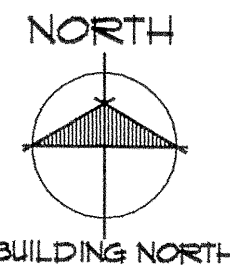
AIR OUTLET - INLET SCHEDULE											
TAG	MANUFACTURER	MODEL	SIZE	PATTERN	DUTY	TYPE	LOCATION	CONSTRUCTION	FINISH	REMARKS	
A	PENN VENT.	TYPE 4	24"x 24"	1-WAY	INTAKE	HOOD	ROOF	ALUMINUM	MILL FINISH	HINGED ACCESS, PREFABRICATED ROOF CURB, GC, P.T.M.	
OED	NONE	NONE	SEE PLAN	1-WAY	SUPP. EXH.	DUCT	SEE PLAN	STEEL	GALV.	SECURE 1/4" WIRE MESH OVER OPEN END DUCT	

P.T.M. - PAINT TO MATCH, BY GENERAL CONTRACTOR. HVAC CONTRACTOR TO COORDINATE ALL OUTLET AND INLET LOCATIONS/INSTALLATIONS WITH ALL TRADES.



VENTILATION FLOOR PLAN

SCALE: 1/8" = 1'-0"



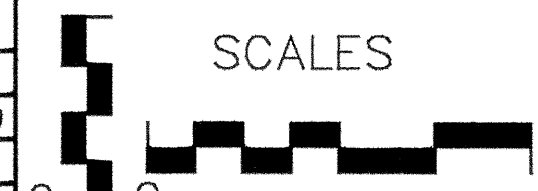
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REVISIONS / REMARKS			
NO	DESCRIPTION	DATE	BY
1			
2			
3			

PROJECT I.D.	98M101
SURVEY DATA	8M101BAS3D
SURVEYED BY	BFO / DFC 99
DRAWN BY	
REVIEW/APP.	RK1 / DMS

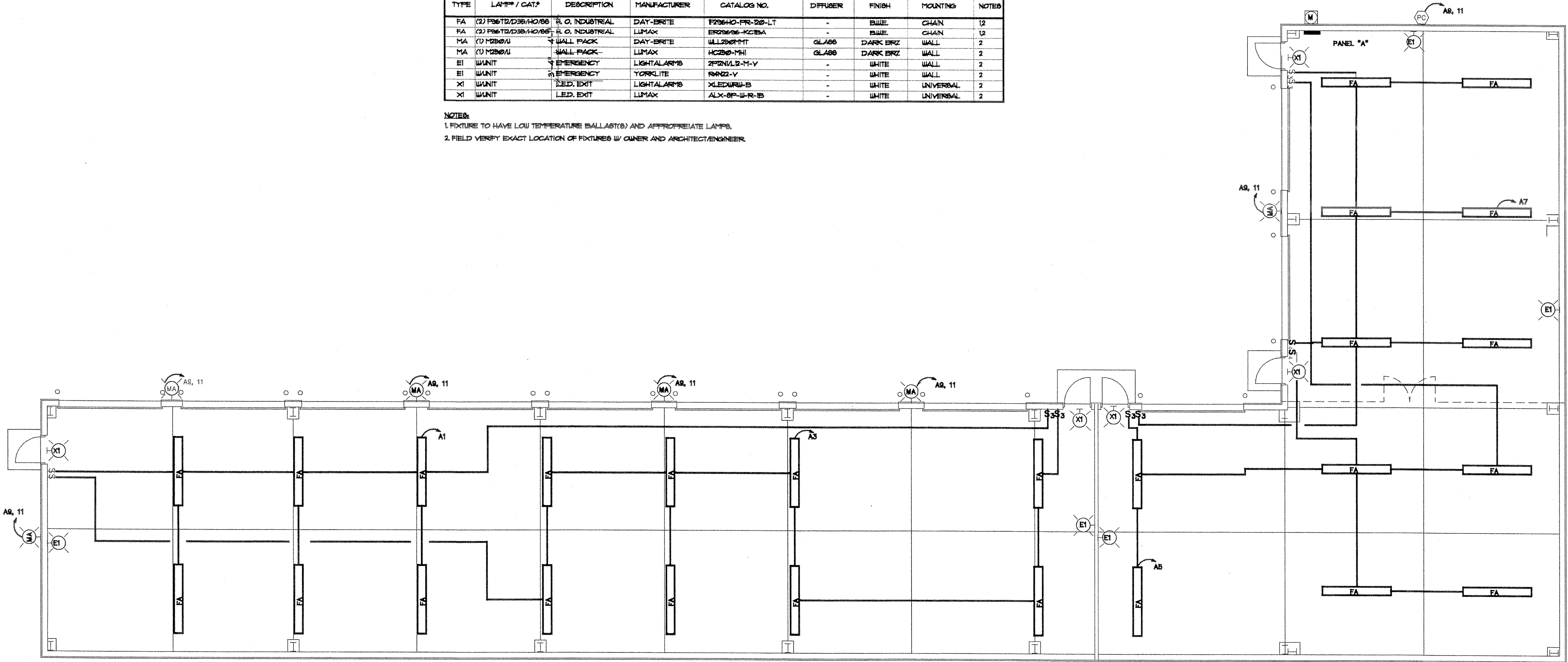


MOTOR EQUIPMENT
STORAGE FACILITY
CITY OF MADISON
CITY ENGINEERING DIVISION
DANE COUNTY WISCONSIN

VENTILATION FLOOR PLAN
NEW GARAGE BUILDING
SHEET NO. M1

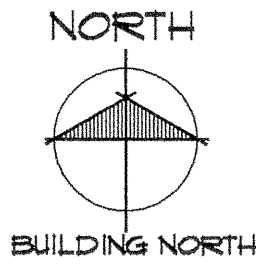
LIGHTING FIXTURE SCHEDULE							
TYPE	LAMP / CAT#	DESCRIPTION	MANUFACTURER	CATALOG NO.	DIFFUSER	FINISH	MOUNTING
FA	(2) P56T2/D25/HO/66	I.O. INDUSTRIAL	DAY-BRITE	P256HO-PR-D25-LT	-	EMUE	CHAN
FA	(2) P56T2/D25/HO/66	I.O. INDUSTRIAL	LUMAX	EP056H-ACR5A	-	EMUE	CHAN
MA	(1) M250/W	WALL PACK	DAY-BRITE	WLL250-11T	GLASS	DARK BRZ	WALL
MA	(1) M250/W	WALL PACK	LUMAX	HC250-11H	GLASS	DARK BRZ	WALL
EI	WANT	EMERGENCY	LIGHTALARM	2P20V/L2-M-V	-	WHITE	WALL
EI	WANT	EMERGENCY	YORKLITE	R402-V	-	WHITE	WALL
XI	WANT	LED, EXT	LIGHTALARM	XLEDURW-B	-	WHITE	UNIVERSAL
XI	WANT	LED, EXT	LUMAX	ALX-8P-W-R-15	-	WHITE	UNIVERSAL

NOTES:
1. FIXTURE TO HAVE LOW TEMPERATURE BALLAST(S) AND APPROPRIATE LAMPS.
2. FIELD VERIFY EXACT LOCATION OF FIXTURES W/ OWNER AND ARCHITECT/ENGINEER.



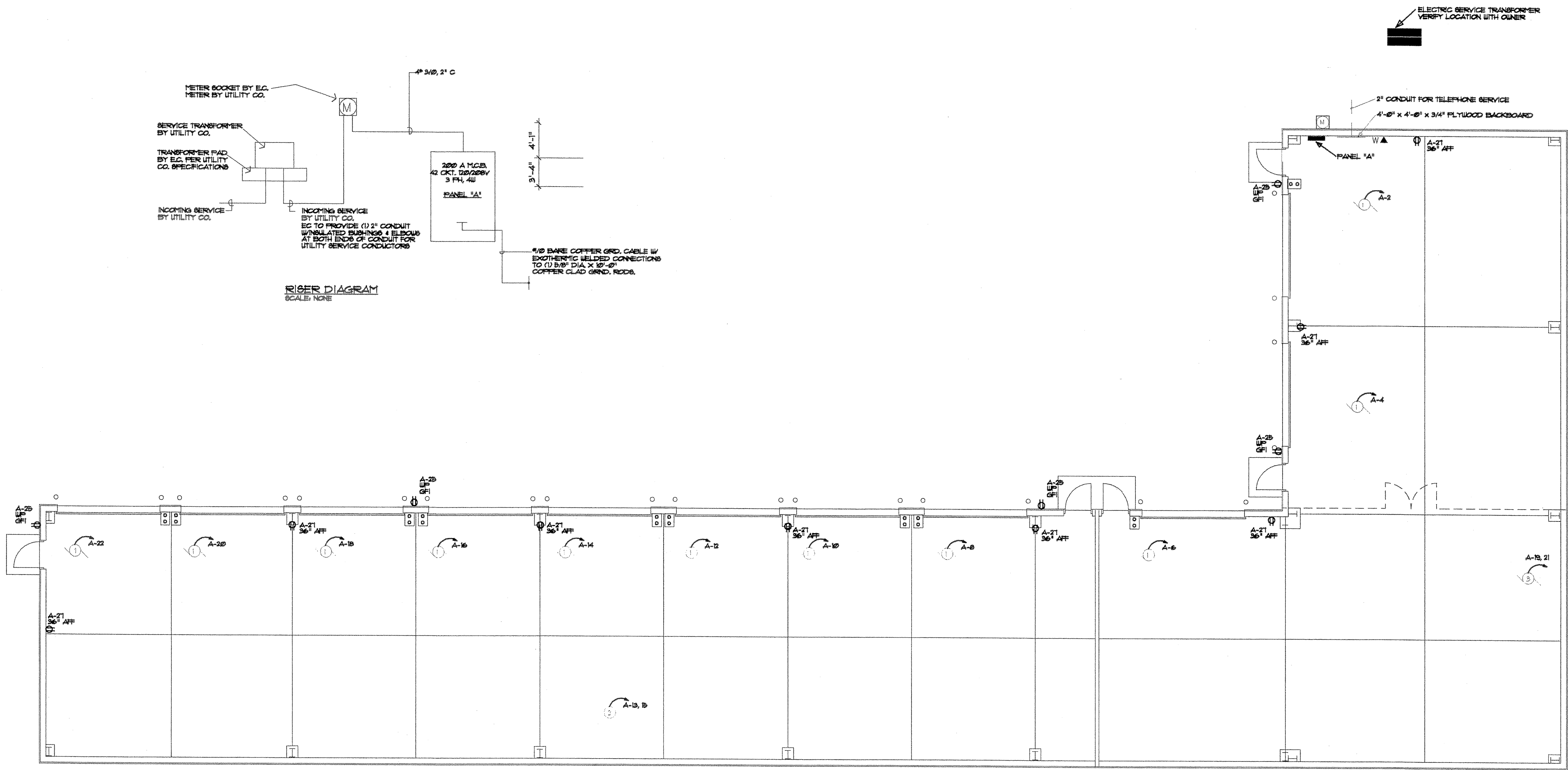
LIGHTING PLAN

SCALE: 1/8" = 1'-0"



ELECTRICAL LEGEND:

- FLUORESCENT LIGHT FIXTURE
SEE FIXTURE SCHEDULE FOR DETAILS
- RECESSED FIXTURE, EITHER FLUORESCENT,
HID, OR INCANDESCENT, SEE FIXTURE
SCHEDULE FOR DETAILS
- CEILING MOUNT FIXTURE, SEE FIXTURE
SCHEDULE FOR DETAILS
- WALL MOUNT FIXTURE, SEE FIXTURE
SCHEDULE FOR DETAILS
- SINGLE POLE SWITCH MOUNT 48" AFF.
- 3-WAY SWITCH MOUNT 48" AFF.
- 4-WAY SWITCH MOUNT 48" AFF.
- DUPLEX RECEPTACLE
MOUNT 18" AFF.
- GROUND FAULT DUPLEX RECEPTACLE
MOUNT 18" AFF. OR 8" ABOVE COUNTERTOP
IF DEPICTS WEATHERPROOF COVER
- TELEPHONE JACK MOUNT 48" AFF.
- POWER PANEL, SEE ONE LINE DIAGRAM
FOR DETAILS
- TIME CLOCK
- LIGHTING CONTACTOR
- PUSHBUTTON STATION
- PHOTOCELL, PARASON CAT. "CUBES-00"
OR APPROVED EQUAL
- MOTOR
EQUIPMENT
- SAFETY SWITCH, UP = NEMA 3R
SWITCH CIRCUITRY
- CIRCUIT WIRING
- JUNCTION BOX, SEE NOTES FOR DETAILS



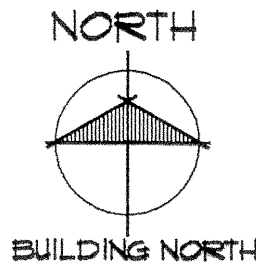
PANEL SCHEDULE "A"						VOLTAGE 208/208 AMPERAGE 200 MCR PHASE 3	
NO.	DESCRIPTION	CKT. BRKR.	CKT. BRKR.	DESCRIPTION	NO.		
1	INTERIOR LIGHTING	20A/1P	20A/1P	GARAGE OPENER	2		
3	INTERIOR LIGHTING	20A/1P	20A/1P	GARAGE OPENER	4		
5	INTERIOR LIGHTING	20A/1P	20A/1P	GARAGE OPENER	6		
7	INTERIOR LIGHTING	20A/1P	20A/1P	GARAGE OPENER	8		
9	EXTERIOR LIGHTING	20A/2P	20A/1P	GARAGE OPENER	10		
11		20A/1P	20A/1P	GARAGE OPENER	12		
13	EXHAUST FAN EF-1	20A/3P	20A/1P	GARAGE OPENER	14		
15		20A/1P	20A/1P	GARAGE OPENER	16		
17		20A/1P	20A/1P	GARAGE OPENER	18		
19	EXHAUST FAN EF-2	20A/3P	20A/1P	GARAGE OPENER	20		
21		20A/1P	20A/1P	GARAGE OPENER	22		
23		20A/1P	20A/1P	SPARE	24		
25	EXTERIOR OUTLETS	20A/1P	20A/1P	SPARE	26		
27	INTERIOR OUTLETS	20A/1P	20A/1P	SPARE	28		
29	SPARE	20A/1P	20A/1P	SPARE	30		
31	SPARE	20A/1P	20A/1P	SPARE	32		
33	SPARE	20A/1P	20A/1P	SPARE	34		
35	SPARE	20A/1P	20A/1P	SPARE	36		
37	SPARE	20A/1P	20A/1P	SPARE	38		
39	SPARE	20A/1P	20A/1P	SPARE	40		
41	SPARE	20A/1P	20A/1P	SPARE	42		

EQUIPMENT SCHEDULE									
NO.	DESCRIPTION	LOCATION	VOLTAGE	PHASE	KVA/HP	CKT. NO.	BRKR. A/1P	BRKR. POLE	NOTES
1	GARAGE OPENER	SEE PLAN	208	1	3/4 HP	SEE PLAN	20A	1P	1
2	EXHAUST FAN EF-1	ROOF	208	3	1/2 HP	A-15,B/1	20A	3P	2
3	EXHAUST FAN EF-2	ROOF	208	3	1/2 HP	A-6,B	20A	3P	2

NOTES:
1. EC TO WIRE PUSHBUTTON STATION CONTROL FOR MOTOR. PUSHBUTTON 1 GARAGE OPENER.
BY OTHERS. EC TO COORDINATE WITH GARAGE DOOR INSTALLER FOR POWER CONTROL WIRING.
2. PROVIDE NEMA 3R FRACTIONAL HP STARTER PROPERLY SIZED FOR UNIT. MOUNT NEAR UNIT.

POWER PLAN

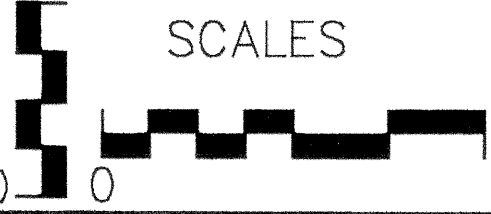
SCALE: 1/8" = 1'-0"



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NO.	DESCRIPTION	DATE	BY	SURVEY DATA	8M101BASF 3D
1				SURVEYED BY	BFO / DFC 99
2				DRAWN BY	
3				REVIEW / APP.	RK1 / DMS



MOTOR EQUIPMENT STORAGE FACILITY
CITY OF MADISON
CITY ENGINEERING DIVISION
DANE COUNTY WISCONSIN

POWER PLAN
NEW GARAGE BUILDING

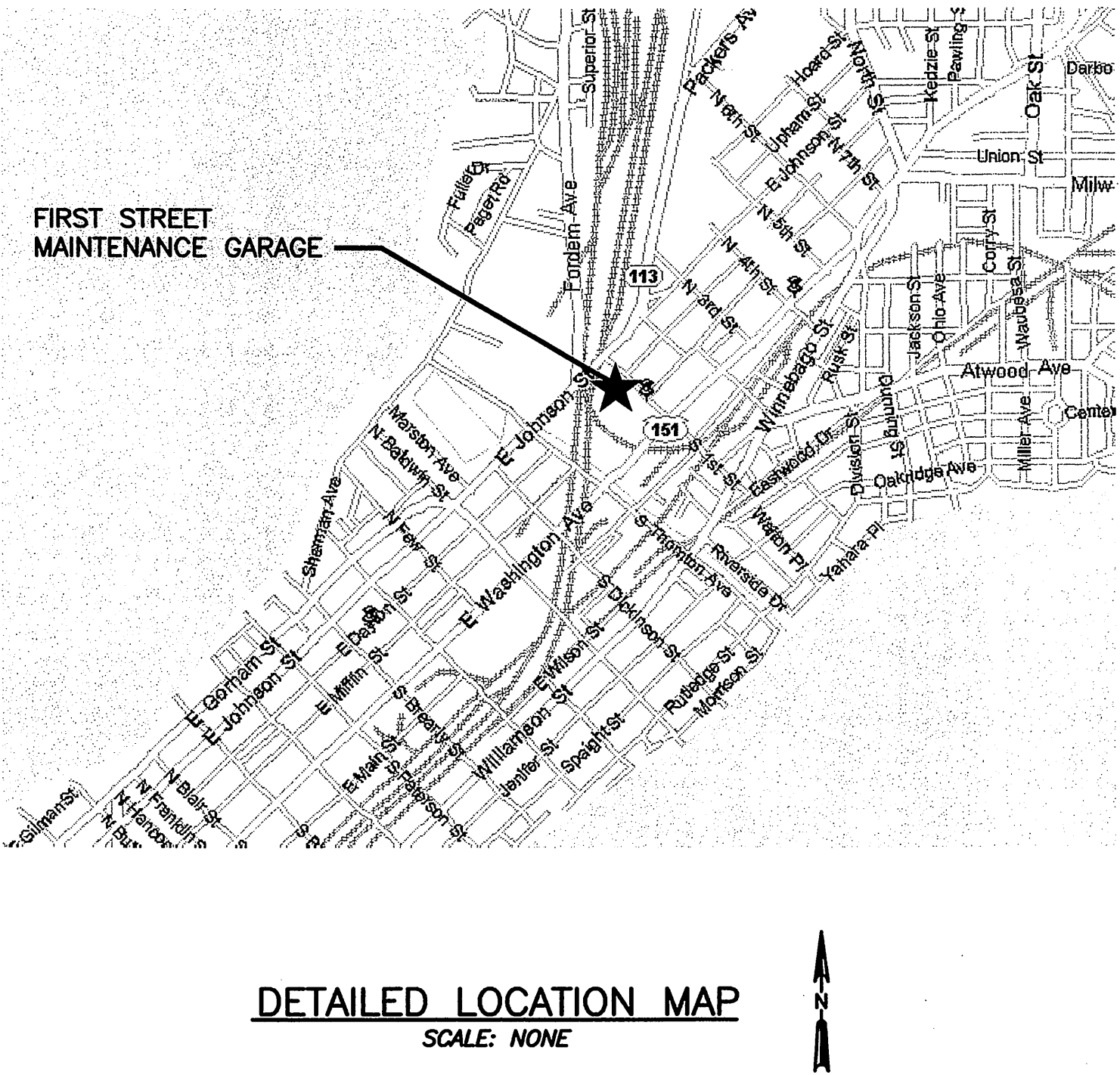
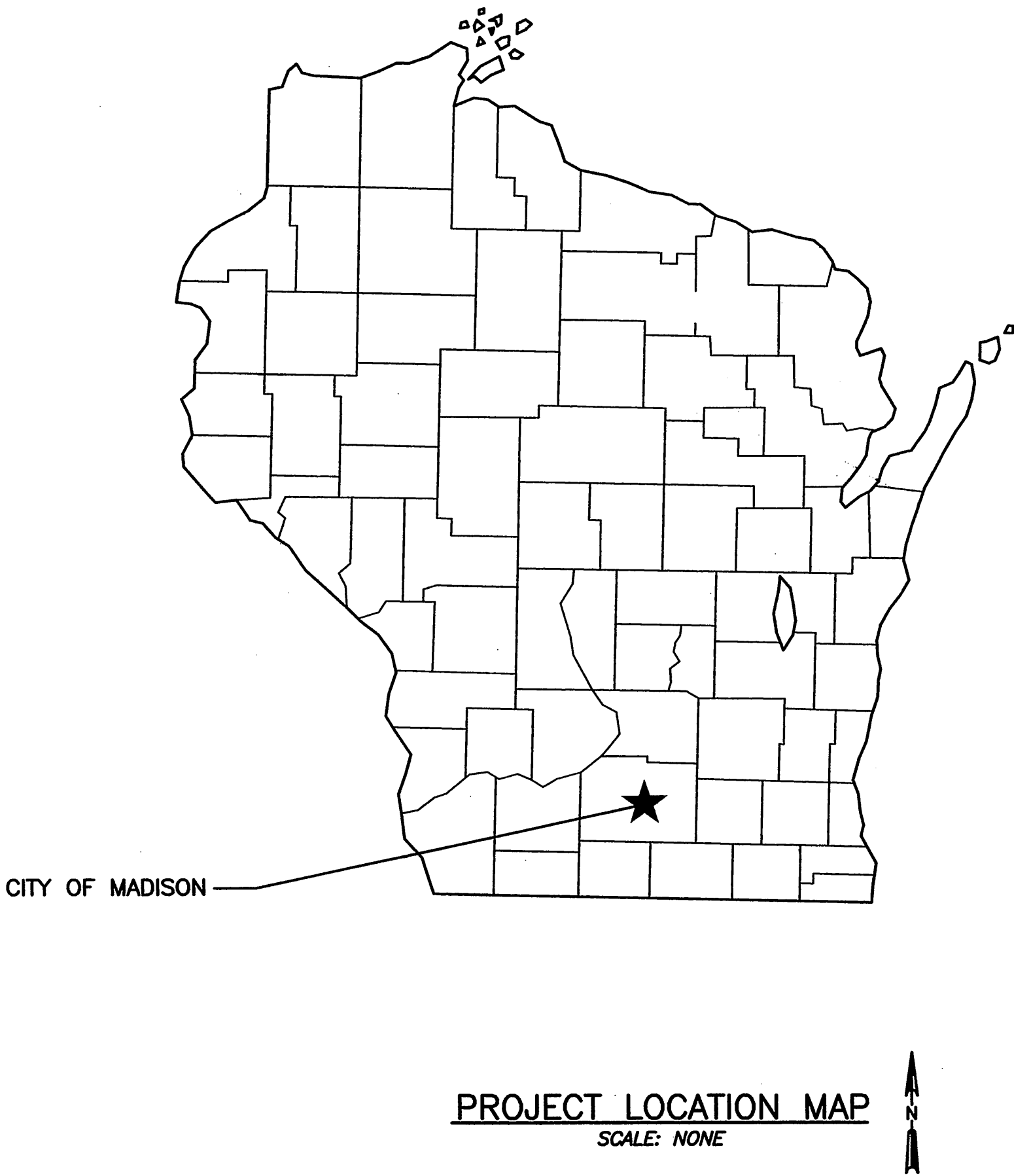
SHEET NO.
E2



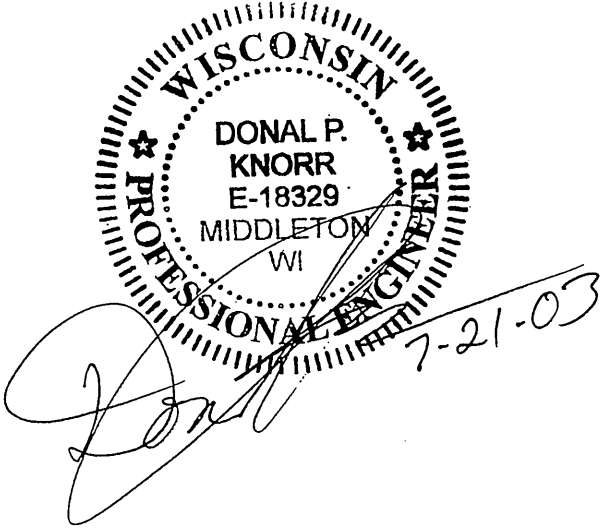
2003 - Fleet Electrical System Upgrade

ELECTRICAL SYSTEM UPGRADE MOTOR EQUIPMENT DIVISION

200 N. FIRST STREET
MADISON, WISCONSIN
JULY 2003



LIST OF DRAWINGS		
SHEET NO.	DRAWING TITLE	FILE NO.
1	TITLE SHEET, LOCATION MAP, AND LIST OF DRAWINGS	1.020-003-1
2	SITE PLAN	1.020-003-2
3	EXISTING ELECTRICAL PLAN	1.020-003-3
4	NEW ELECTRICAL PLAN	1.020-003-4
5	ONE-LINE DIAGRAMS	1.020-003-5
6	SCHEDULES AND DETAILS	1.020-003-6
7	ALTERNATIVE BID #1 PLAN	1.020-003-7



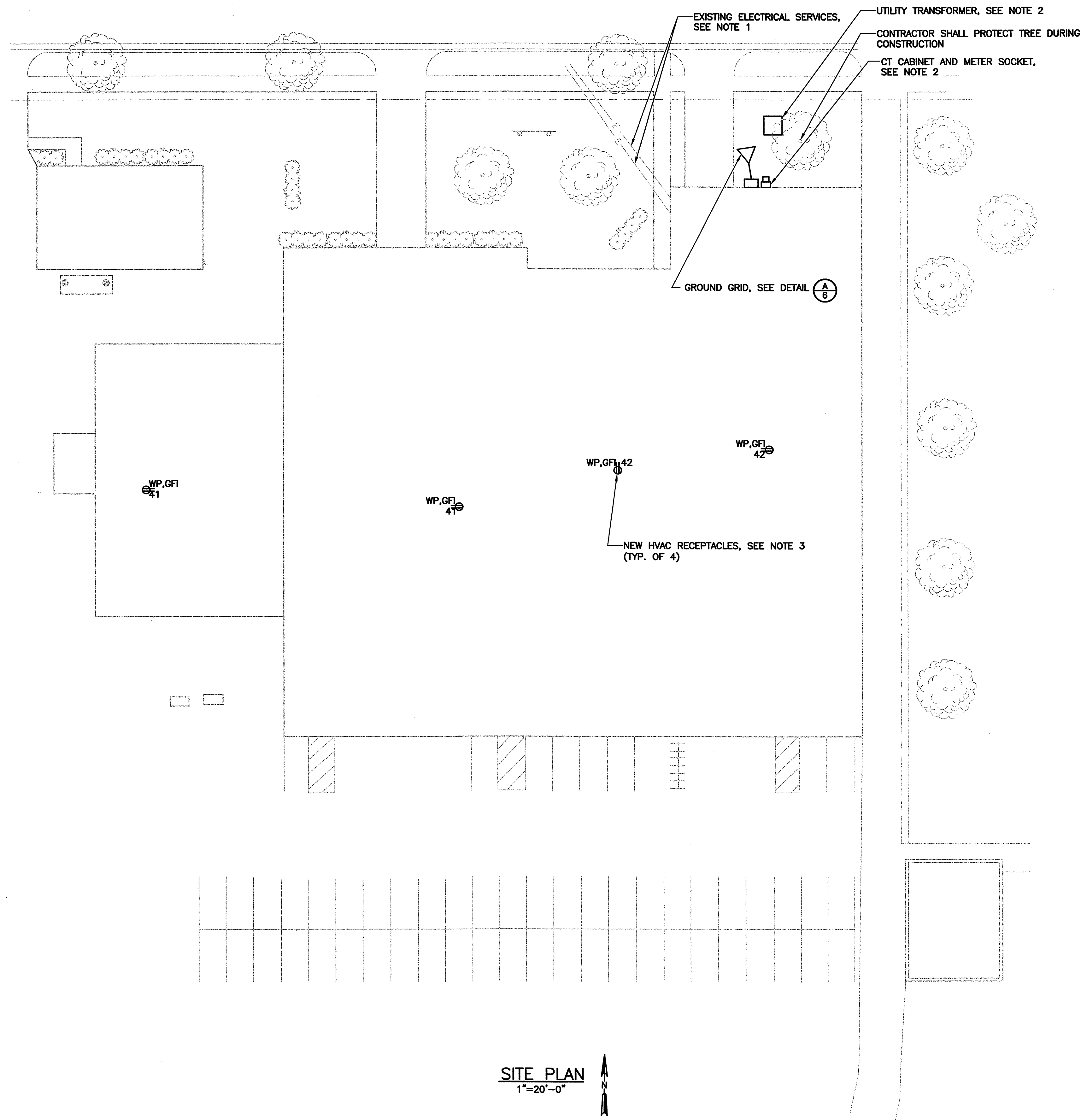
CONTRACT NO. 1-2003



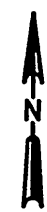
SHEET NO:
1

FILE NO: 1.020-003-1

File: S:\@Sai\001--050\020\003\Acad\Drawings\g-site.dwg Time: Jul 21, 2003 - 1:10pm



SITE PLAN
1"=20'-0"

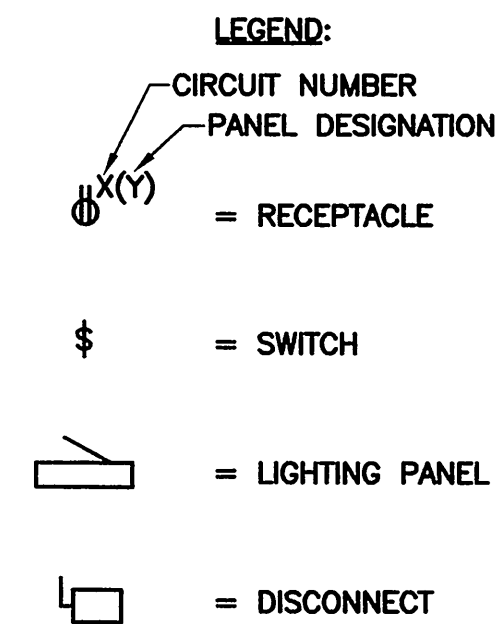


NOTES:

1. CONTRACTOR SHALL COORDINATE THE REMOVAL OF THE EXISTING ELECTRICAL SERVICES WITH MADISON GAS AND ELECTRIC.
2. CONTRACTOR SHALL PROVIDE CT CABINET, METER SOCKET AND ALL MATERIALS AS REQUIRED BY THE UTILITY COMPANY. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. CONTRACTOR SHALL PROVIDE FOUR, ROOF MOUNTED HVAC RECEPTACLES. RECEPTACLES SHALL BE MOUNTED TO THE SIDE OF THE HVAC UNITS. CONTRACTOR SHALL PROVIDE 3/4" CONDUIT AND 3~#12 WIRES FOR EACH CIRCUIT FROM PANEL LP-K TO RECEPTACLES. ROOFING SHALL BE PATCHED IN ACCORDANCE WITH THE MANUFACTURERS WARRANTY REQUIREMENTS. PROVIDE SERVICES OF SOUTHERN WISCONSIN ROOFING (271-7171) TO REPAIR ROOF UNDER THIS CONTRACT. SEE SHEET NO. 4 FOR ADDITIONAL INFORMATION.
4. CONTRACTOR SHALL PROVIDE SEED, TOP SOIL AND MULCH FOR LAWN AREAS DISTURBED DURING CONSTRUCTION.

GENERAL ELECTRICAL NOTES:

1. CONTRACTOR SHALL COORDINATE DOWNTIME FOR ALL PANELS WITH FACILITY MANAGER. A MINIMUM OF ONE WEEK NOTICE SHALL BE GIVEN FOR ALL DOWNTIME EVENTS.



ELECTRICAL SYSTEM UPGRADE
MOTOR EQUIPMENT DIVISION
200 N. FIRST STREET
MADISON, WISCONSIN
SITE PLAN



SHEET NO:
2

FILE NO: 1.020-003

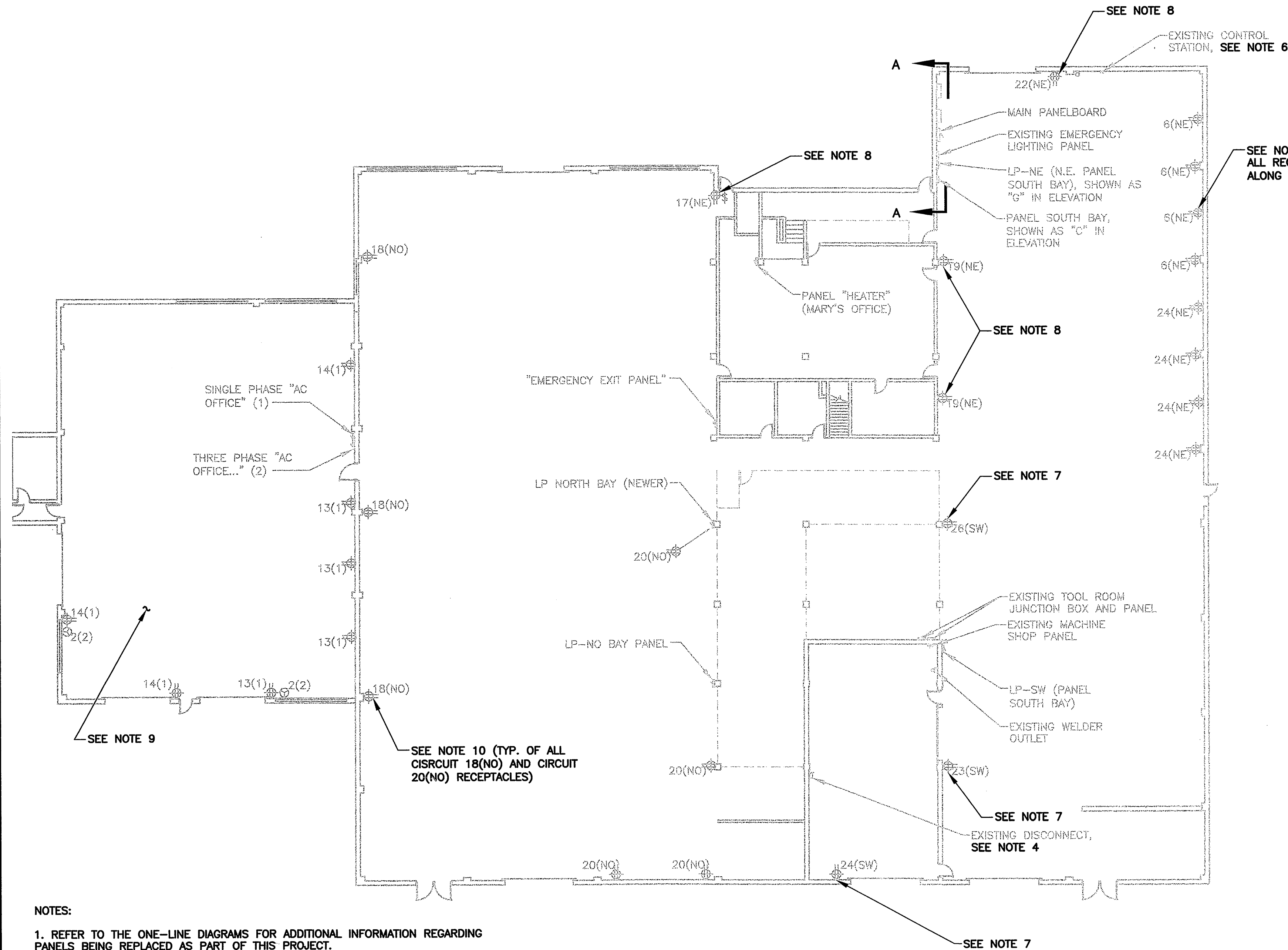
DES BY: DKB
CHK BY: DPK
APP BY: DPK
DWN BY: LMB,DCB
SCALE: AS SHOWN
PROJECT DATE: JULY 2003
PRINTED:
LENGTH OF BAR IS 1" ON ORIGINAL DRAWING

NO.	REVISION
1	

BY	DATE

BY	DATE	CONTRACTOR	CONSTRUCTED	NOTE

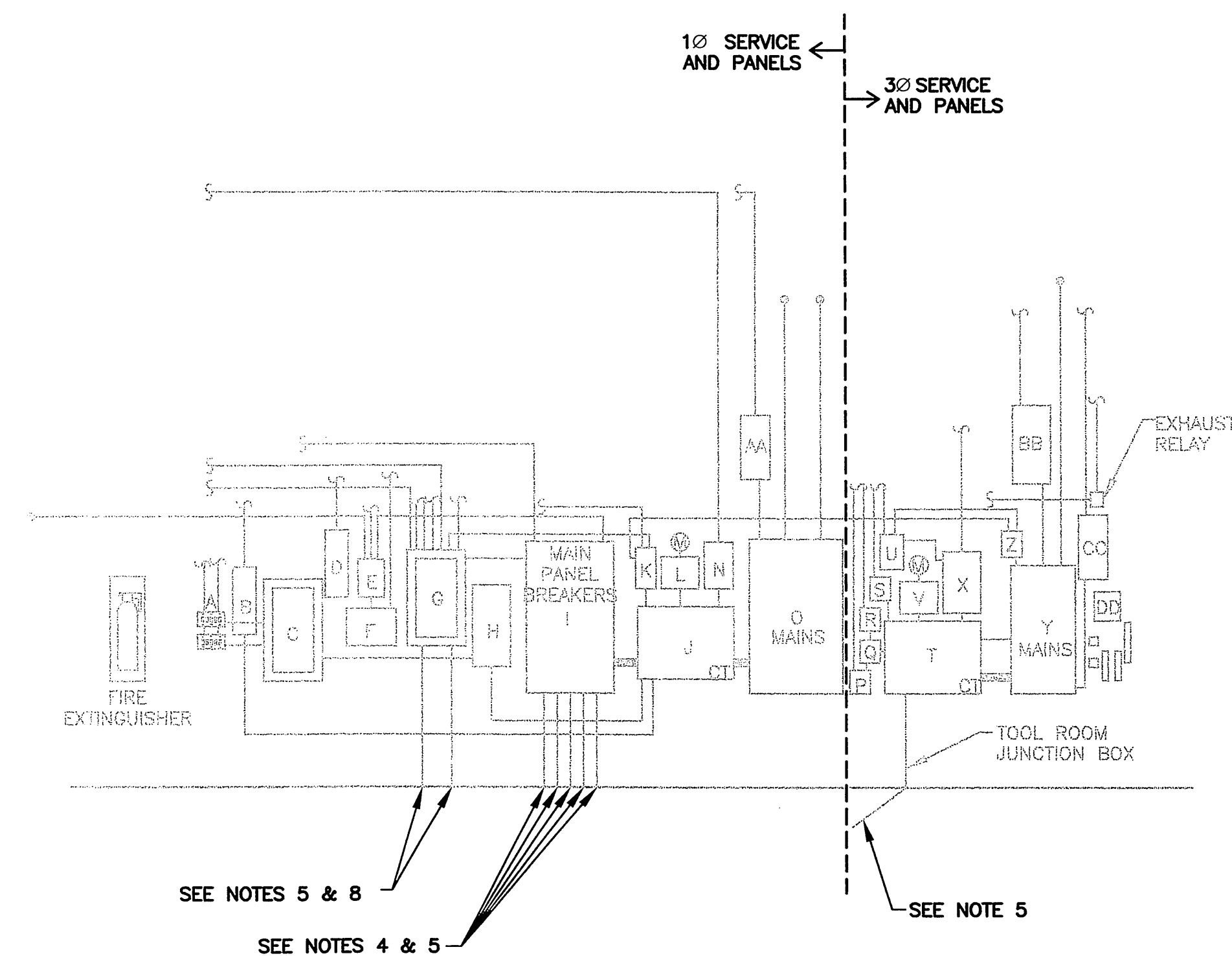
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NOTES:

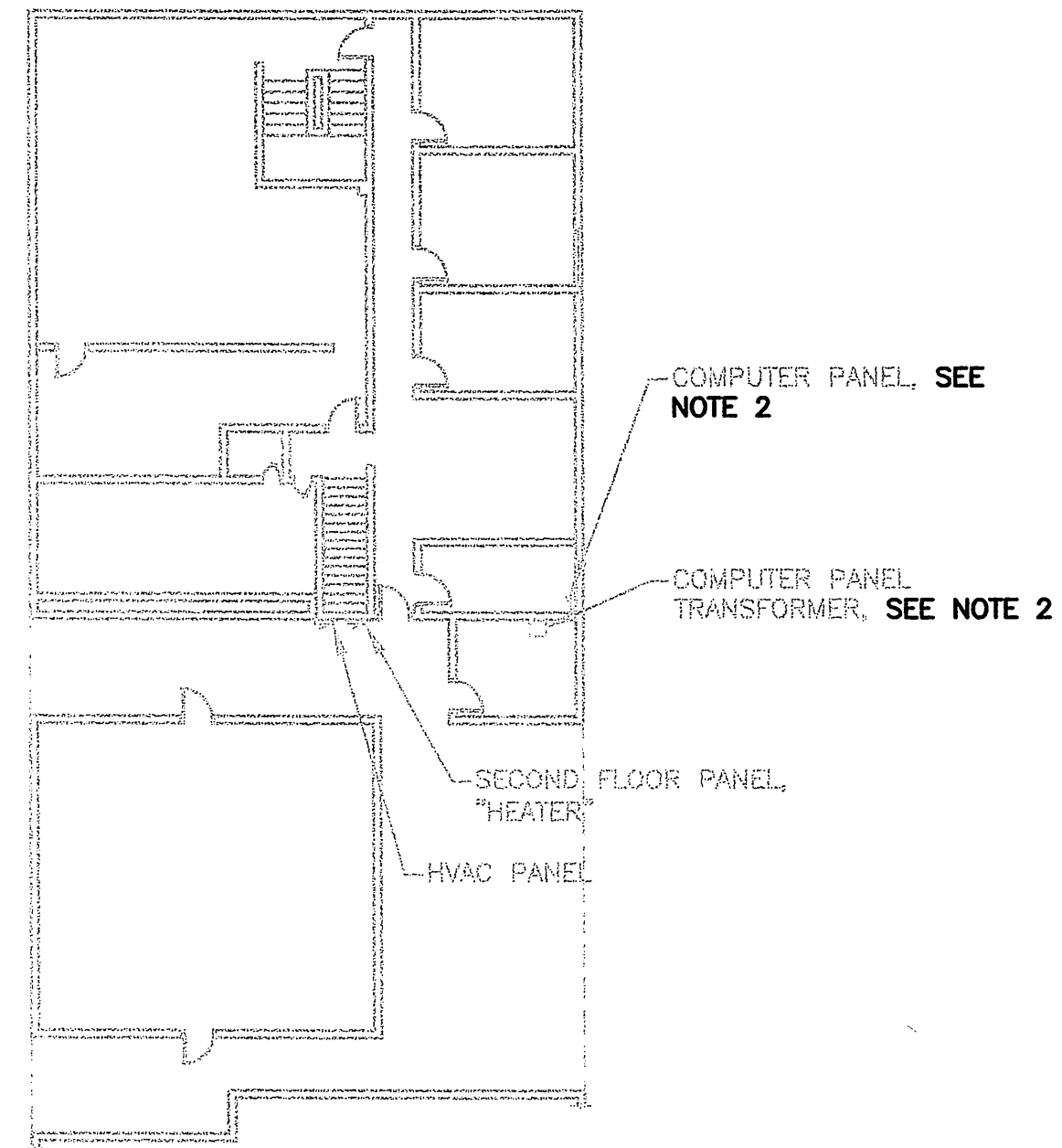
1. REFER TO THE ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION REGARDING PANELS BEING REPLACED AS PART OF THIS PROJECT.
2. CONTRACTOR SHALL REFEED EXISTING COMPUTER PANEL FROM NEW DISTRIBUTION SYSTEM. SEE NEW ONE-LINE FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL REMOVE EXISTING TRANSFORMER AND DISCONNECTS AND TURN OVER TO OWNER. COORDINATE DOWN TIME WITH CITY OF MADISON INFORMATION SERVICES AND FACILITY MANAGER. DOWNTIME FOR THIS PANEL SHALL BE LIMITED TO EVENING HOURS.
3. SEE EXISTING ONE-LINE DIAGRAM FOR PANELS AND FEEDERS TO BE REMOVED.
4. IT IS BELIEVED THAT THE EXISTING FEEDER TO THIS DISCONNECT IS TAPPED FROM THE EXISTING SINGLE PHASE SERVICE. CONTRACTOR SHALL REMOVE FEEDER AND DISCONNECT. VERIFY DISCONNECT SOURCE PRIOR TO CONSTRUCTION.
5. FOR FEEDERS AND BRANCH CIRCUITS SHOWN TO BE REMOVED (SEE EXISTING ONE-LINE DIAGRAM ON SHEET NO. 5), CONTRACTOR SHALL COMPLETELY REMOVE CONDUCTORS, REMOVE CONDUIT AT FLOOR ELEVATION, GRIND SMOOTH AND FILL WITH NON-SHRINK GROUT.
6. CONTRACTOR SHALL RELOCATE EXISTING START-STOP CONTROL STATION TO A LOCATION ADJACENT TO THE NEW SERVICE ENTRANCE PANELBOARDS. CONTROL STATION OPERATES EXHAUST FAN MOUNTED DIRECTLY ABOVE CONTROL STATION AT CEILING LEVEL.
7. CONTRACTOR SHALL REFEED EXISTING RECEPTACLES CURRENTLY FED FROM PANEL SW (CIRCUITS 23, 24 & 26). CIRCUITS SHALL BE ROUTED OVERHEAD. RECEPTACLES SHALL BE REFEED FROM PANEL LP-C.
8. CONTRACTOR SHALL REFEED EXISTING RECEPTACLES CURRENTLY FED FROM PANEL NE (CIRCUITS 6, 17, 19, 22 & 24). CIRCUITS SHALL BE ROUTED OVERHEAD. RECEPTACLES SHALL BE REFEED FROM PANEL LP-A.
9. CONTRACTOR SHALL REFEED EXISTING 120V AND 240V RECEPTACLES CURRENTLY FED FROM THE SINGLE PHASE (AC OFFICE) AND THREE PHASE (AC OFFICE...) PANELS IN THIS AREA (CIRCUITS 13 & 14 AND CIRCUIT 2 RESPECTFULLY). RECEPTACLES SHALL BE REFEED FROM PANELS LP-I AND LP-J (RESPECTFULLY).
10. CONTRACTOR SHALL REFEED EXISTING RECEPTACLES CURRENTLY FED FROM PANEL NO (CIRCUITS 18 & 20). CIRCUITS SHALL BE ROUTED OVERHEAD. RECEPTACLES SHALL BE REFEED FROM PANEL LP-H.

FIRST FLOOR PLAN
1/16"=1'-0"



ELEVATION A-A
NO SCALE

PARTIAL SECOND FLOOR PLAN
1/16"=1'-0"



ELECTRICAL SYSTEM UPGRADE
MOTOR EQUIPMENT DIVISION
200 N. FIRST STREET
MADISON, WISCONSIN
EXISTING ELECTRICAL PLAN

STRAND
ASSOCIATES, INC.
ENGINEERS®

SHEET NO:
3

FILE NO: 1.020-003

DES BY: DCB
DWN BY: LMB, DCB
SCALE: AS SHOWN
PROJECT DATE: JULY 2003
PRINTED:

LENGTH OF BAR IS 1"
ON ORIGINAL DRAWING

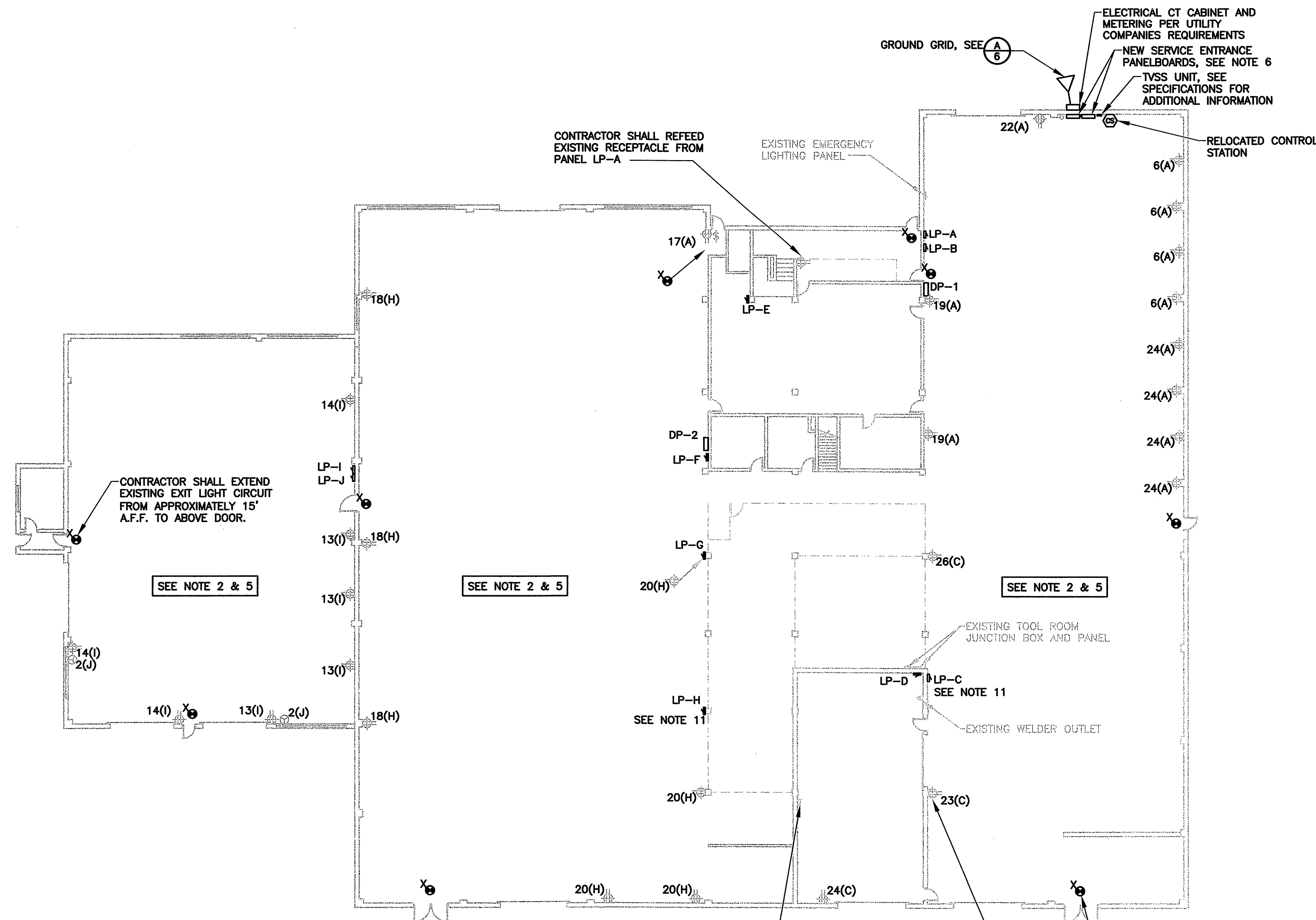
CHK BY: DPK
APP BY: DPK

NO. REVISION

BY DATE

RECORD DRAWING
BY: DATE: CONTRACTOR: NOTE:

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FIRST FLOOR PLAN
1/16"=1'-0"

NOTES:

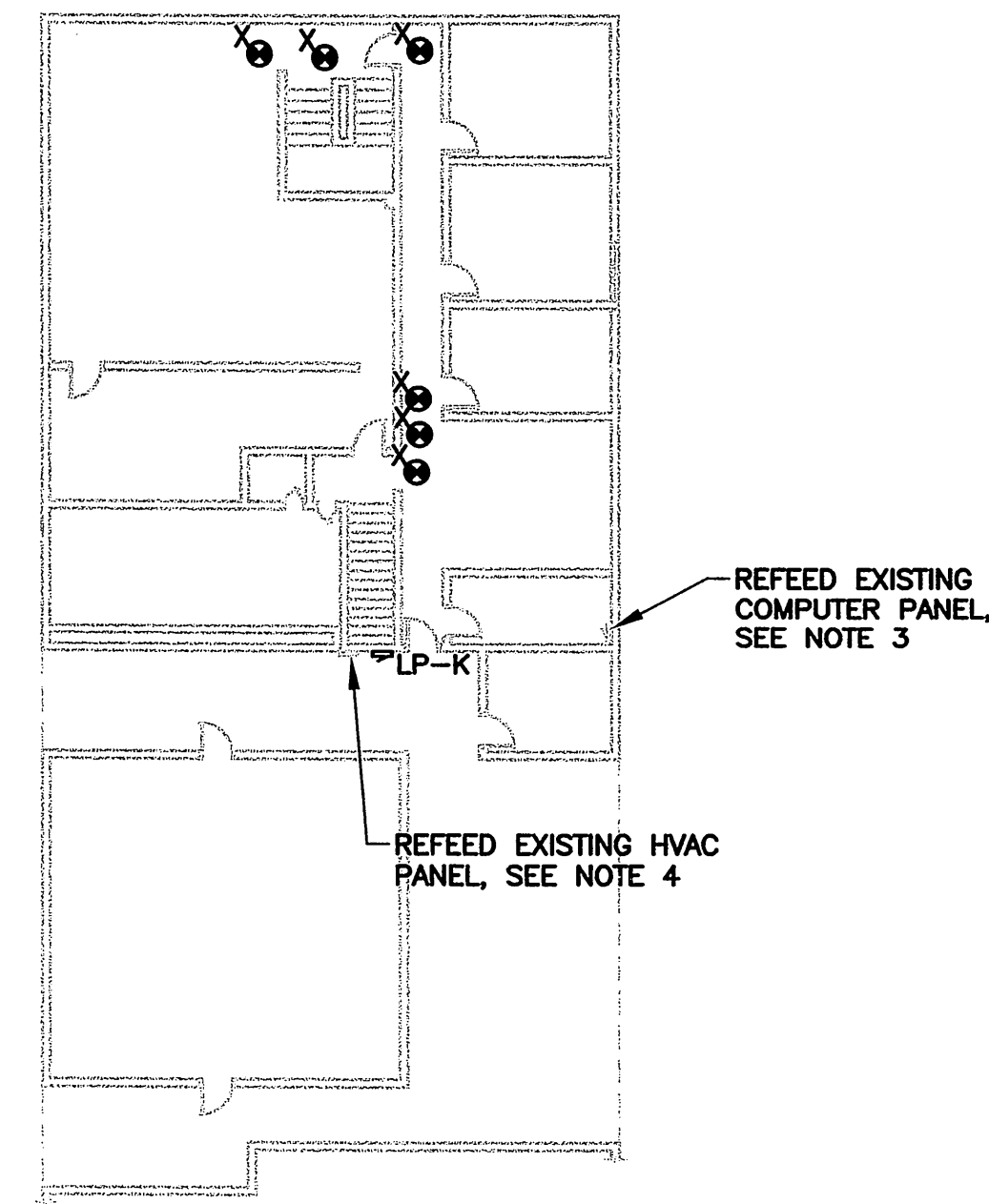
- CONTRACTOR SHALL VERIFY ALL EXISTING BREAKER, FUSE AND FEEDER SIZES BEFORE CONSTRUCTION.
- ALL ELECTRICAL WORK AND EQUIPMENT LOCATED WITHIN THE 18" SPACE ABOVE THE FLOOR SHALL BE RATED FOR CLASS 1, DIVISION 2 ENVIRONMENTS.
- CONTRACTOR SHALL REFEED EXISTING PANEL FROM THE SERVICE ENTRANCE PANELBOARD. CONTRACTOR SHALL PROVIDE NEW CONDUIT AND WIRE FROM NEW DISTRIBUTION PANELS TO EXISTING PANEL. SEE ONE-LINE DIAGRAM FOR FEEDER SIZE.
- CONTRACTOR SHALL REFEED THE EXISTING HVAC PANEL FROM PANEL LP-K. SEE ONE-LINE DIAGRAM FOR FEEDER SIZE. PANEL SHALL BE CONNECTED TO THE THROUGH-FEED LUGS PROVIDED WITH PANEL LP-K.
- CONDUIT SHALL BE INSTALLED AS FOLLOWS:
 - PANEL FEEDERS: ALL PANEL FEEDERS SHALL BE IMC TYPE CONDUIT
 - BRANCH CIRCUITS: CONDUIT INSTALLED ABOVE 18" AND LESS THAN 10'-0" SHALL BE IMC TYPE CONDUIT. CONDUIT INSTALLED ABOVE 10'-0" SHALL BE A MINIMUM OF EMT.
- PROVIDE SERVICE ENTRANCE PANELBOARDS AND METERING AS SHOWN ON THE NEW ONE-LINE AND AS REQUIRED BY THE UTILITY COMPANY. SEE SPECIFICATIONS AND ONE-LINE FOR ADDITIONAL INFORMATION.
- CONTRACTOR PROVIDE NEW CONDUIT AND WIRE AS REQUIRED TO REFEED THE EXISTING OUTLETS SHOWN. THE CIRCUIT NUMBERS AND PANEL NAMES GIVEN ARE FOR THE NEW PANELS. THE NEW FEEDERS SHALL BE ROUTED OVERHEAD.
- CONTRACTOR SHALL REPLACE THE EXISTING EXIT LIGHTING FIXTURES WITH NEW. NEW FIXTURES SHALL BE LED, THERMO-PLASTIC TYPE WITH EMERGENCY BATTERY BACKUP. FIXTURES SHALL BE AS MANUFACTURED BY SURE-LITES, MODEL LPX-7-R-WH, OR EQUAL. FIXTURES SHALL BE RECONNECTED TO THE EXISTING CIRCUIT.
- IT IS BELIEVED THAT THE EXISTING FEEDER IS CURRENTLY TAPPED FROM THE SINGLE PHASE SERVICE. CONTRACTOR SHALL PROVIDE 3~#12, CONDUIT AND BOXES AS REQUIRED TO REFEED EQUIPMENT FROM PANEL LP-D.

10. LIGHTING ON THE EXISTING CIRCUITS SHOWN BELOW ARE CURRENTLY CONTROLLED VIA CIRCUIT BREAKERS. CONTRACTOR SHALL PROVIDE 20A, SINGLE POLE SWITCHES FOR EACH OF THE CIRCUITS LISTED BELOW. SWITCHES SHALL BE MOUNTED ADJACENT TO EACH PANEL. CONTRACTOR SHALL PROVIDE BOXES, CONDUIT AND WIRE TO EXTEND EXISTING CIRCUITS TO NEW SWITCHES.

- EXISTING PANEL "NE" (NEW PANEL LP-B): CIRCUITS 2, 4 & 11
- EXISTING PANEL "NO" (NEW PANEL LP-H): CIRCUITS 1, 2, 4, 5, 6, 7 & 8
- EXISTING PANEL "AC OFFICE" (NEW PANEL LP-I): CIRCUITS 9, 10, 11, 12, 13 & 14

11. CONTRACTOR SHALL PROVIDE BOXES, CONDUIT AND WIRE TO EXTEND EXISTING LOAD CENTER CIRCUITS (MOUNTED ADJACENT TO PANELS) TO BREAKERS MOUNTED WITHIN NEW PANELS.

- EXISTING PANEL "SW": 1~20/2 AND 4~20/1 CIRCUITS
- EXISTING PANEL "NO": 1~60/2, 1~30/2 AND 1~20/2 CIRCUIT



PARTIAL SECOND FLOOR PLAN
1/16"=1'-0"

Panel Replacement Schedule				
Existing Panel Label	Overcurrent Devices	New Panel Label	Total Circuits Available and Amp Rating	Remarks
LP-NE, N.E. PANEL - SOUTH BAY	28~20/1 3~20/2	LP-A	42(200)	SEE NOTE 10
PANEL "HEATER" LP (MARY'S OFFICE)	6~20/1 6~15/1	LP-E	18(100)	
PANEL SOUTH BAY	15~20/1 1~50/2 2~60/2 1~30/3 1~30/2 1~15/3 1~25/3	LP-B	42(200)	
LP-SW, PANEL SOUTHWEST	25~20/1 2~20/2	LP-C	42(200)	SEE NOTE 11
MACHINE SHOP PANEL	1~20/3 2~50/3 1~70/3 5~20/1	LP-D	42(200)	
LP-NO	22~20/1 2~20/2 1~30/2 1~60/2 (ASSUMED)	LP-H	42(200)	SEE NOTES 10 & 11
EMERGENCY EXIT PANEL	20~20/1 1~20/2	LP-F	42(200)	
LP NORTH BAY	18~20/1 1~25/1 1~100/2 5~20/2 1~30/2	LP-G	42(200)	
SINGLE PHASE PANEL "AC OFFICE" (1)	24~20/1	LP-I	42(200)	SEE NOTE 10
THREE PHASE PANEL "AC OFFICE..." (2)	4~30/3 1~50/2 1~20/3 1~15/3 1~50/3 1~40/3	LP-J	42(200)	
UPSTAIRS PANEL "HEATER"	21~20/1	LP-K	42(200)	PROVIDE THROUGH-FEED LUGS

ALL NEW PANELS SHALL BE M.L.O., 120/208V, 3-PHASE, 4-WIRE PANELS RATED AS SHOWN ABOVE.

ELECTRICAL SYSTEM UPGRADE
MOTOR EQUIPMENT DIVISION
200 N. FIRST STREET
MADISON, WISCONSIN
NEW ELECTRICAL PLAN

STRAND
ASSOCIATES, INC.
ENGINEERS

SHEET NO:
4

FILE NO: 1.020-003

RECORD DRAWING

BY: _____
DATE: _____
CONTRACTOR: _____
CONSTRUCTED: _____
NOTE: _____

DATE

BY

REVISION

NO.

DES BY: DCB
CHK BY: DPK
APP BY: DPK

DWN BY: LMB/DCB

SCALE: AS SHOWN

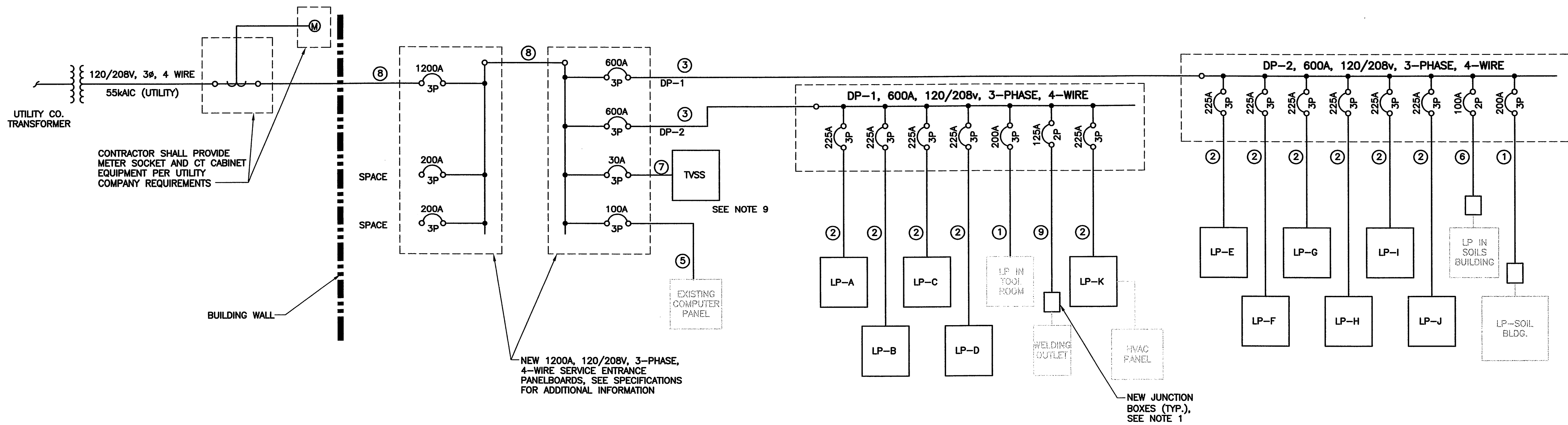
PROJECT DATE: JULY 2003

PRINTED: _____

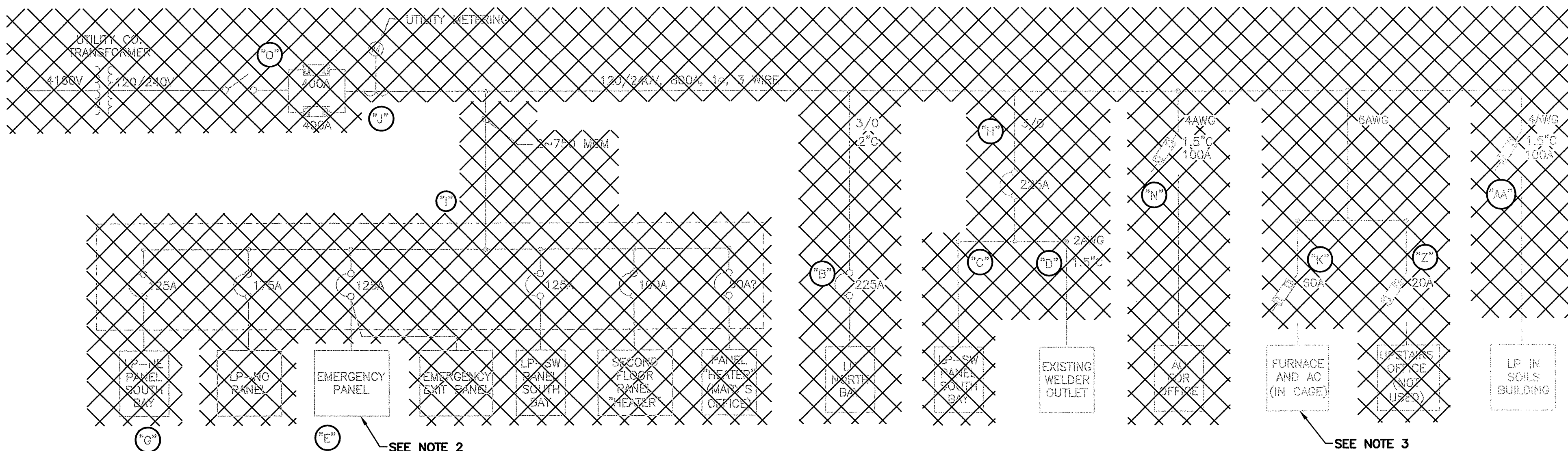
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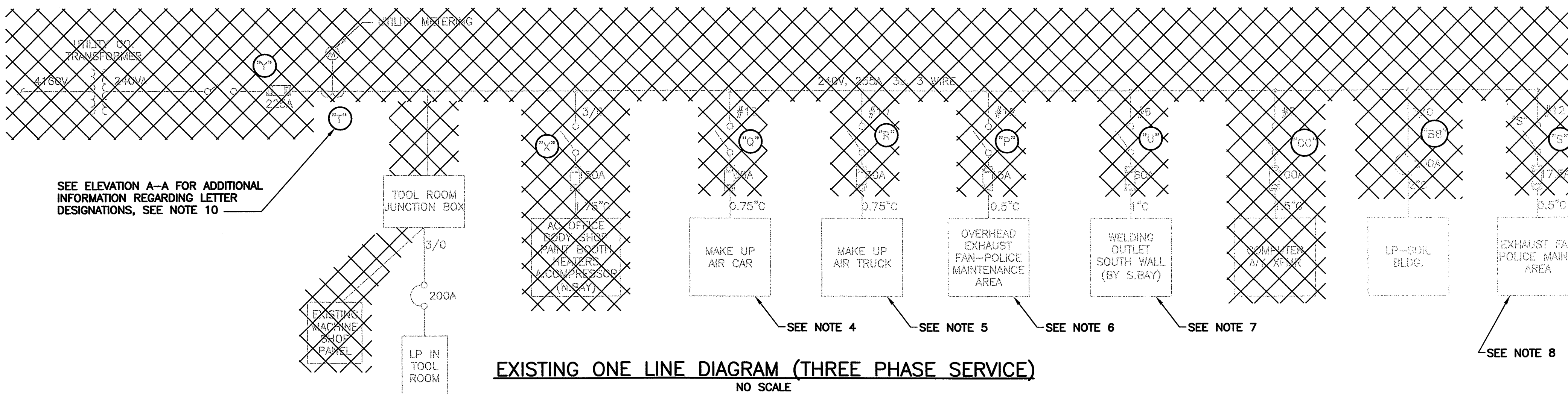
- ① 4~3/0
1~#6 GRD.
1~2" C.
- ② 4~4/0
1~#4 GRD.
2 1/2" C.
- ③ 2~350 MCM/PHASE
2~350MCM NEUTRAL
2~#1 GRD.
2~2 1/2" C.
- ④ 4~500MCM
1~#3 GRD.
1~3" C.
- ⑤ 4~#3
1~#8 GRD.
1~1 1/4" C.
- ⑥ 3~#3
1~#8 GRD.
1~1" C.
- ⑦ 4~#10
1~#10 GRD.
1~3/4" C.
- ⑧ 3~500MCM/PHASE
3~500MCM NEUTRAL
3~3/0 GRD.
3~4" C.
- ⑨ 2~#1
1~#6 GRD..
1~1 1/4" C.



NEW ONE LINE DIAGRAM
NO SCALE



EXISTING ONE LINE DIAGRAM (SINGLE PHASE SERVICE)
NO SCALE



EXISTING ONE LINE DIAGRAM (THREE PHASE SERVICE)
NO SCALE

NOTES:

- CONTRACTOR SHALL PROVIDE JUNCTION BOXES FOR THE EXISTING CIRCUITS AS SHOWN. BOXES SHALL BE SIZED PER THE NEC. FOR THE EXISTING CIRCUITS WHERE BOXES ARE NOT SHOWN, CONTRACTOR SHALL REPLACE THE ENTIRE FEEDER TO THE PANEL SHOWN.
- CONTRACTOR SHALL PROVIDE 3~#6, 1~#10 GRD. IN A 1" CONDUIT AND BOXES AS REQUIRED TO FEED EXISTING EMERGENCY PANEL FROM PANEL LP-B.
- CONTRACTOR SHALL PROVIDE 2~#6, 1~#10 GRD. IN A 3/4" CONDUIT AND BOXES AS REQUIRED TO FEED EXISTING FURNACE (IN CAGE) FROM PANEL LP-B.
- CONTRACTOR SHALL PROVIDE 2~#10, 1~#10 GRD. IN A 3/4" CONDUIT AND BOXES AS REQUIRED TO FEED EXISTING MAKE UP AIR CAR FROM PANEL LP-B.
- CONTRACTOR SHALL PROVIDE 2~#10, 1~#10 GRD. IN A 3/4" CONDUIT AND BOXES AS REQUIRED TO FEED EXISTING MAKE UP AIR TRUCK FROM PANEL LP-B.
- CONTRACTOR SHALL PROVIDE 3~#12, 1~#12 GRD. IN A 3/4" CONDUIT AND BOXES AS REQUIRED TO FEED EXISTING OVERHEAD EXHAUST FAN FROM PANEL LP-B.
- CONTRACTOR SHALL PROVIDE 2~#6, 1~#10 GRD. IN A 3/4" CONDUIT AND BOXES AS REQUIRED TO FEED EXISTING WELDING OUTLET, SOUTH WALL FROM PANEL LP-B.
- CONTRACTOR SHALL PROVIDE 3~#10, 1~#10 GRD. IN A 3/4" CONDUIT AND BOXES AS REQUIRED TO FEED EXISTING EXHAUST FAN FROM PANEL LP-B.
- CONTRACTOR SHALL INSTALL TVSS UNIT PER MANUFACTURERS RECOMMENDATIONS.
- EXISTING LETTER DESIGNATIONS ARE FOR REFERENCE ONLY. THE LETTER DO NOT CORRELATE TO THE NEW PANEL DESIGNATIONS.

ELECTRICAL SYSTEM UPGRADE
MOTOR EQUIPMENT DIVISION
200 N. FIRST STREET
MADISON, WISCONSIN
ONE-LINE DIAGRAMS

STRAND
ASSOCIATES, INC.
ENGINEERS®

SHEET NO:
5

FILE NO: 1.020-003

DES BY: DGB
CHK BY: DPK
DWN BY: LMB/DCB
SCALE: AS SHOWN
PROJECT DATE: JULY 2003
PRINTED:
LENGTH OF BAR IS 1" ON ORIGINAL DRAWING

NO.	REVISION	BY	DATE
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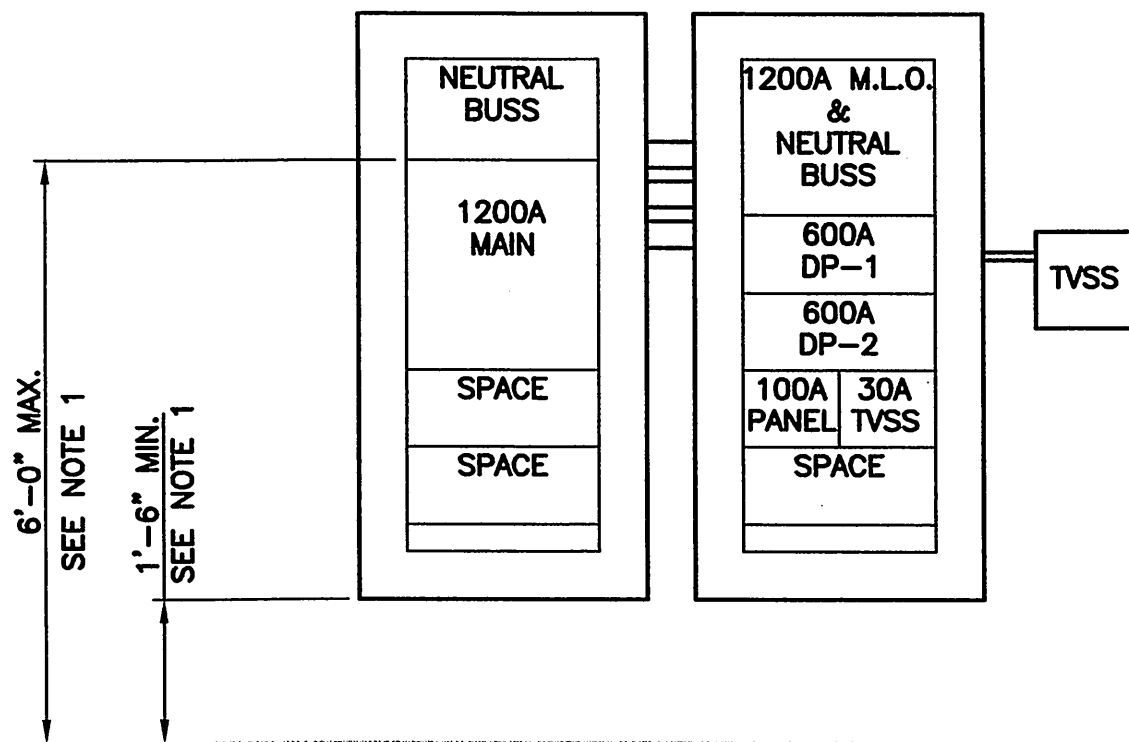
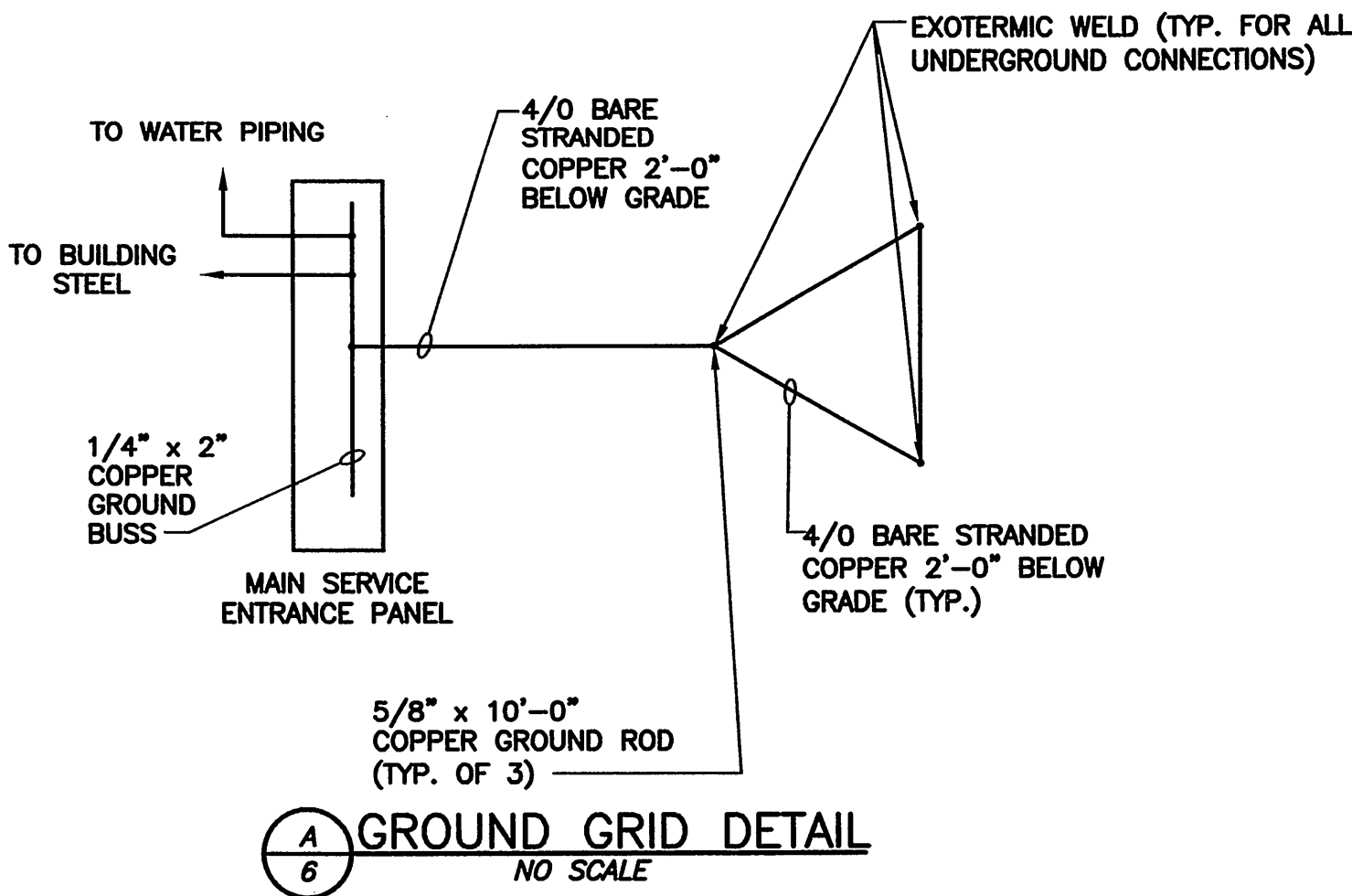
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BY: DATE: CONTRACTOR: CONSTRUCTED: NOTE:

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DP-1																	
Service: 120/208V, 3ø, 4W			Enclosure: NEMA 1G						Mounting: Surface			Main Bus: Copper					
Main Breaker: 600A M.L.O.									SCIC: 65 kAIC								
Location: AS SHOWN																	
Room Number/Description		Amps	Poles	Cct. #	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C	Cct. #	Amps	Poles	Room Number/Description			
				1	MAIN AND NEUTRAL LUGS						2						
				3							4						
				5							6						
				7							8						
				9							10						
LP-A	225	3	11			0				0	12	225	3	LP-B			
	/	/	13	0			0			0	14	/	/				
	/	/	15		0			0		0	16	/	/				
LP-C	225	3	17			0				0	18	225	3	LP-D			
	/	/	19	0			0			0	20	/	/				
	/	/	21		0			0		0	22	/	/				
LP IN TOOL ROOM	200	3	23			0				0	24	100	3	SPARE			
	/	/	25	0			0			0	26	/	/				
	/	/	27		0			0		0	28	/	/				
LP-K & HVAC PANEL	225	3	29			0				0	30			SPACE			
	/	/	31	0			0			0	32						
	/	/	33		0			0		0	34						
WELDING OUTLET	125	2	35			0				0	36			SPACE			
	/	/	37	0			0			0	38						
					0	0	0	0	0	0							
Total Load per Phase per Side (VA)																0	A
Total Load Phase A (VA)				0	VA							Total Connected Load (A)				0	A
Total Load Phase B (VA)				0	VA							Total Connected Load + 25%				0	A
Total Load Phase C (VA)				0	VA							Spare 25%				0	A
Total Connected Load (VA)				0	VA	PROVIDE 38 SPACE FACTORS						Feeder Load				0	A

DP-2																	
Service: 120/208V, 3ø, 4W			Enclosure: NEMA 1G						Mounting: Surface			Copper					
Main Breaker: 600A M.L.O.									Main Bus:			65 kAIC					
Location: AS SHOWN									SCIC:								
Room Number/Description		Amps	Poles	Cct. #	Phase A	Phase B	Phase C	Phase A	Phase B	Phase C	Cct. #	Amps	Poles	Room Number/Description			
				1	MAIN AND NEUTRAL LUGS						2						
				3													
				5													
				7													
				9													
LP-E	225	3	11			0				0	12	225	3	LP-F			
	/	/	13	0			0			0	14	/	/				
	/	/	15		0			0		0	16	/	/				
LP-G	225	3	17			0				0	18	225	3	LP-H			
	/	/	19	0			0			0	20	/	/				
	/	/	21		0			0		0	22	/	/				
LP-I	225	3	23			0				0	24	225	3	LP-J			
	/	/	25	0			0			0	26	/	/				
	/	/	27		0			0		0	28	/	/				
LP IN SOILS BUILDING	200	3	29			0				0	30			SPACE			
	/	/	31	0			0			0	32						
	/	/	33		0			0		0	34						
LP IN SOILS BUILDING	100	2	35			0				0	36			SPACE			
	/	/	37	0			0			0	38						
					0	0	0	0	0	0							
Total Load per Phase per Side (VA)												Total Connected Load (A)				0	A
Total Load Phase A (VA)		0	VA									Total Connected Load + 25%				0	A
Total Load Phase B (VA)		0	VA									Spare 25%				0	A
Total Load Phase C (VA)		0	VA									Feeder Load				0	A
Total Connected Load (VA)		0	VA					PROVIDE 38 SPACE FACTORS									



NEW PANELBOARD ELEVATION
NO SCALE

NOTES:

1. PANELBOARD SHALL BE WALL MOUNTED AT A MINIMUM HEIGHT OF 18" A.F.F. PER THE NEC (CLASS 1, DIVISION 2 ENVIRONMENTS). PANEL LUGS AND NEUTRAL BUSSING SHALL BE ORIENTED IN THE PANEL AS TO NOT ALLOW ANY OF THE PANEL BREAKERS (INCLUDING THE MAIN) TO BE ABOVE 6'-0" A.F.F. PER THE NEC.

ELECTRICAL SYSTEM UPGRADE
MOTOR EQUIPMENT DIVISION
200 N. FIRST STREET
MADISON, WISCONSIN
ELECTRICAL SCHEDULES



SHEET NO:
6

FILE NO: 1.020-003

RECORD DRAWING

BY:

DATE:

CONTRACTOR:

NOTE:

REVISION

NO.

DATE

BY

DES BY: DGB

CHK BY: DPK

DWN BY: LMB, DGB

APP BY: DPK

SCALE: AS SHOWN

PROJECT DATE: JULY 2003

PRINTED:

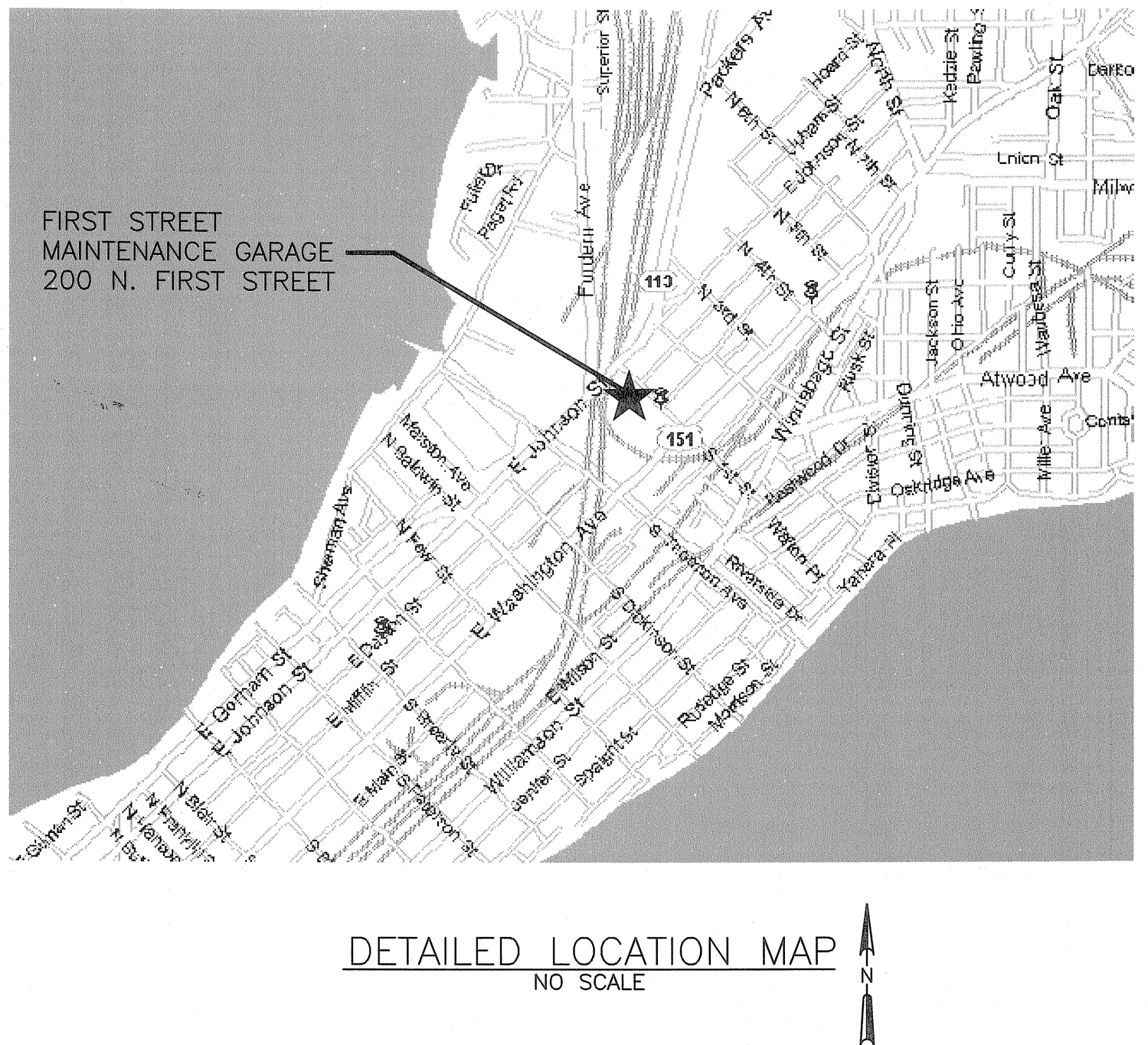
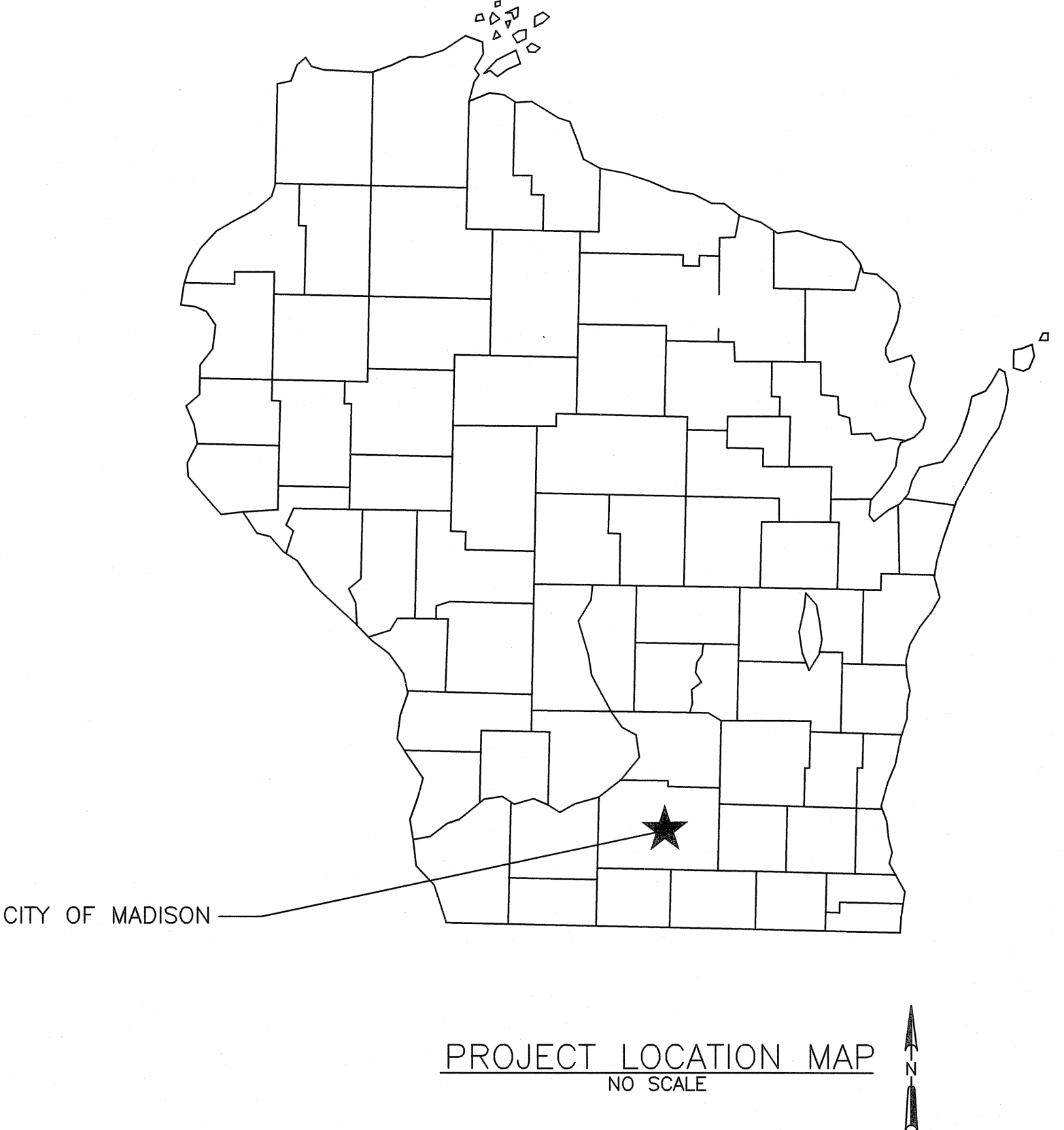
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2007 - Fleet Services Building Modifications

FLEET SERVICES BUILDING MECHANICAL, FIRE PROTECTION, PLUMBING, AND BUILDING SECURITY MODIFICATIONS

FOR THE CITY OF MADISON DANE COUNTY, WISCONSIN

NOVEMBER, 2007



Sheet Number	Sheet Title
G0.1	TITLE SHEET, LOCATION PLAN, AND LIST OF DRAWINGS
D1.1	FIRST AND SECOND FLOOR DEMOLITION PLANS
M0.1	MECHANICAL SYMBOLS AND ABBREVIATIONS
M1.1	FIRST AND SECOND FLOOR MECHANICAL PLAN
M6.1	MECHANICAL SCHEDULES AND DETAILS
P0.1	PLUMBING SYMBOLS, ABBREVIATIONS, AND DETAILS
P1.1	FIRST FLOOR PLUMBING PLAN
P1.2	SECOND FLOOR PLUMBING PLAN
E0.1	ELECTRICAL SYMBOLS AND ABBREVIATIONS
E1.1	SITE ELECTRICAL PLAN
E1.2	FIRST FLOOR POWER AND SYSTEMS PLAN
E1.3	SECOND FLOOR SYSTEMS AND ENLARGED DETAIL PLANS
E5.1	ELECTRICAL DETAILS
FP0.1	FIRE PROTECTION SYMBOLS, DETAILS AND ABBREVIATIONS
FP1.1	FIRE PROTECTION SITE PLAN
FP1.2	FIRST FLOOR FIRE PROTECTION PLAN
FP1.3	SECOND FLOOR FIRE PROTECTION PLAN

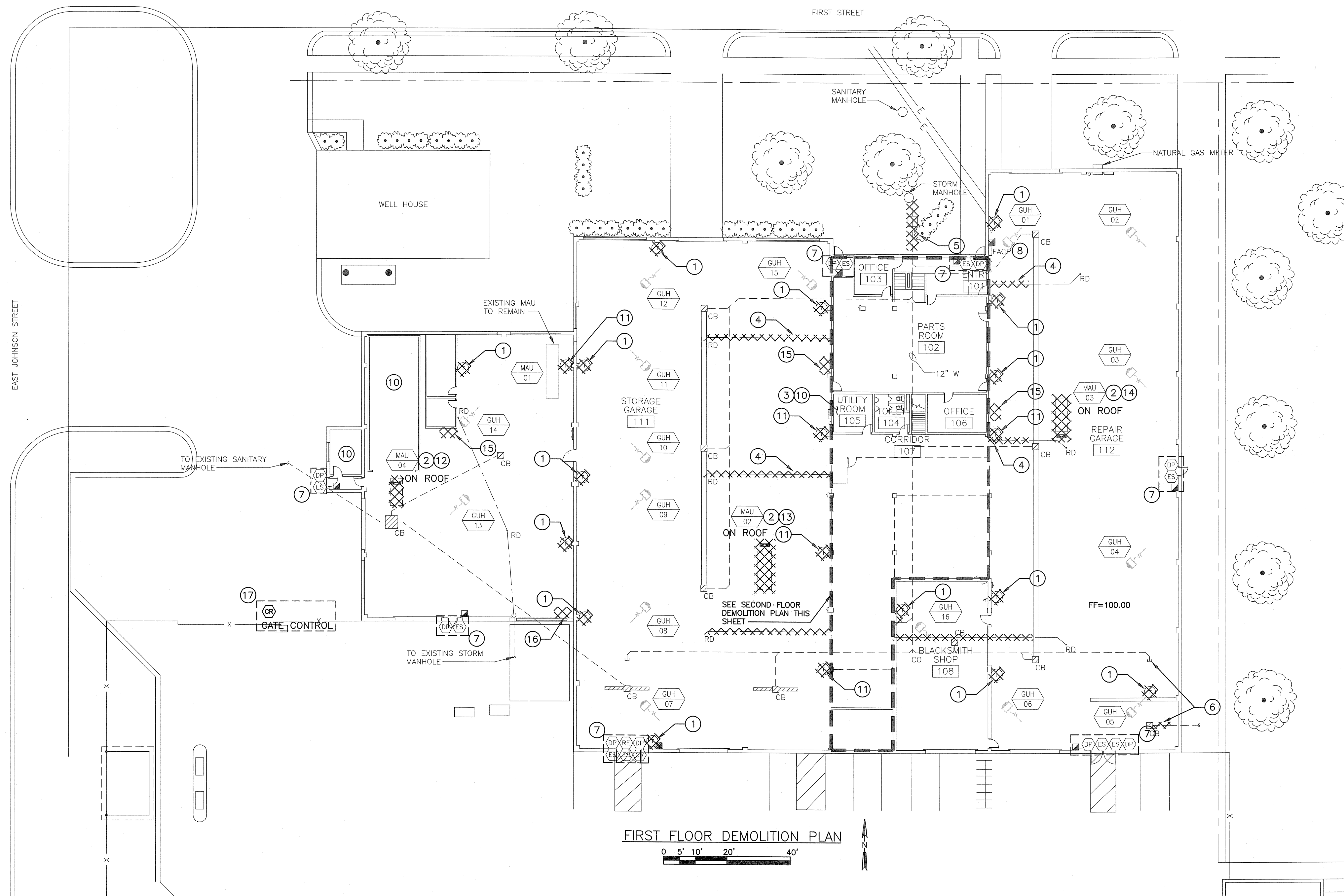
910 West Wingra Drive
Madison, WI 53715
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608-251-8655 FAX

www.strand.com

CONTRACT 6087

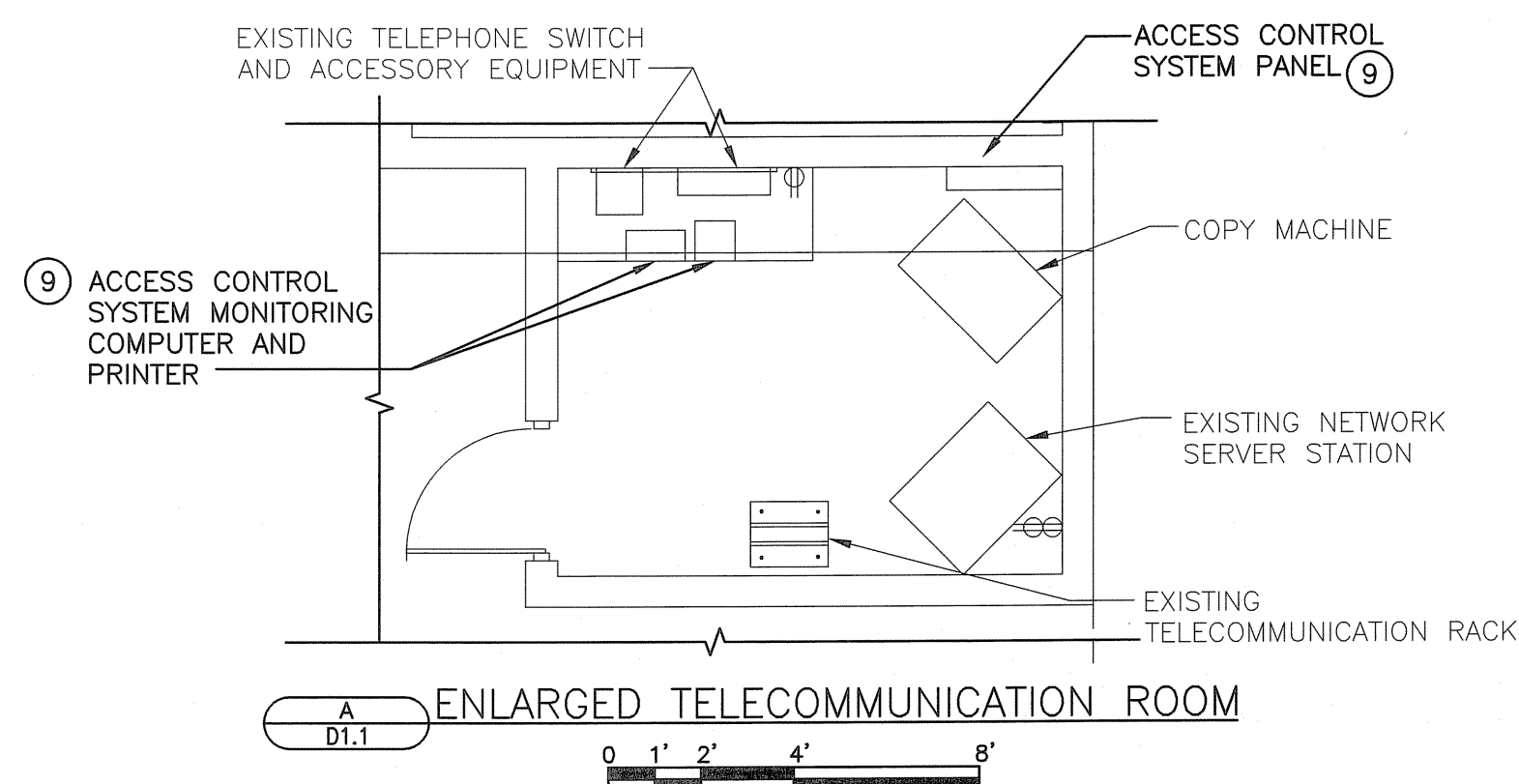


SHEET
G0.1
JOB NO. 1-020-033



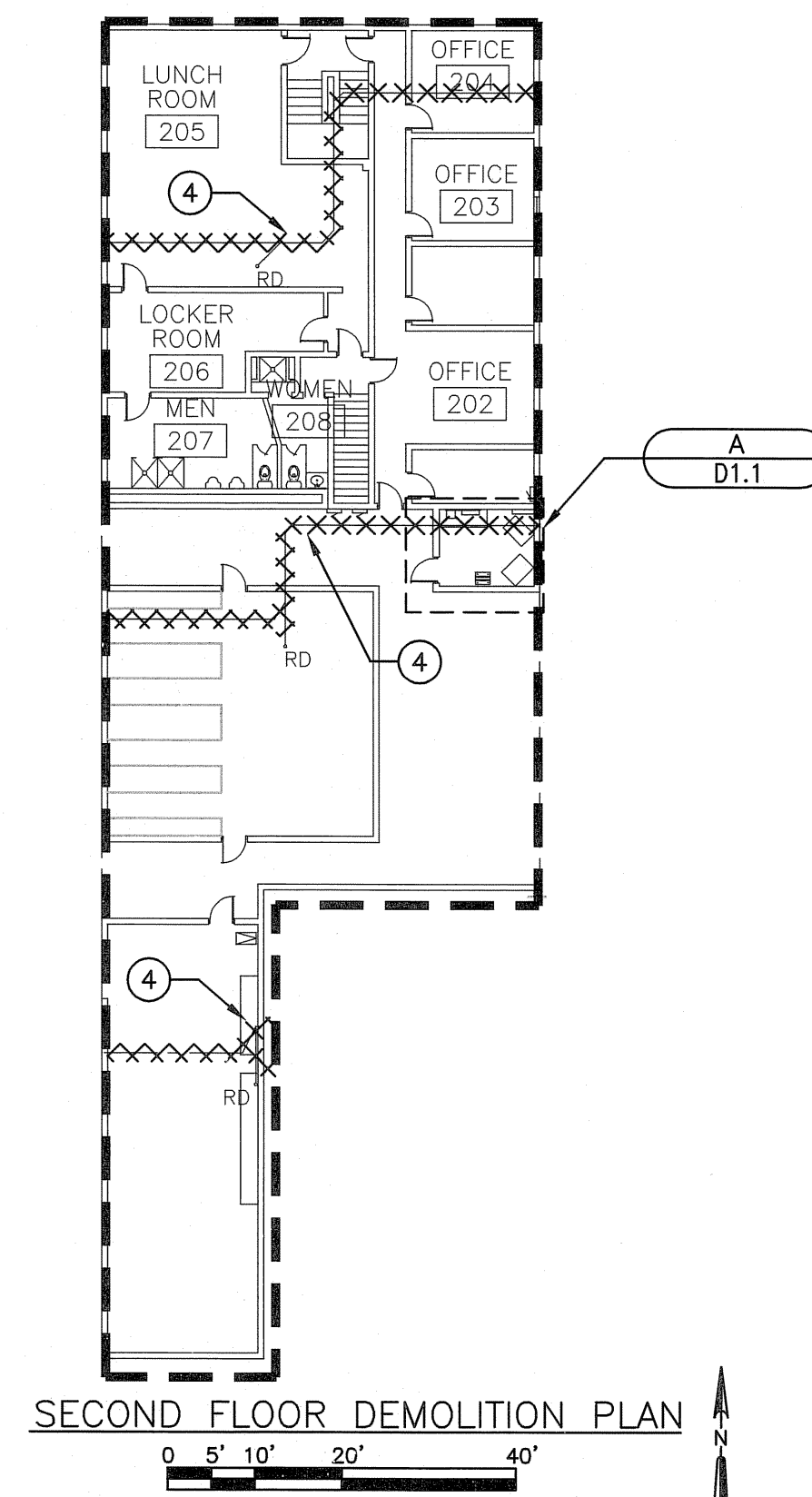
GENERAL NOTES:

1. FACILITY IS TO REMAIN OPERATIONAL DURING CONSTRUCTION. CONTRACTOR SHALL MINIMIZE DISRUPTION OF UTILITY AND SERVICE TO THE BUILDING. CONTRACTOR SHALL NOTIFY OWNER OF ANY OUTAGES A MINIMUM OF 72 HOURS PRIOR. BUILDING AND PERIMETER IS TO REMAIN SECURE AND FIRE ALARM/PROTECTION SYSTEM ENABLED AT NIGHT AND WHEN CONTRACTOR IS NOT ON SITE. PROVIDE FIRE WATCH WHILE FIRE ALARM SYSTEM IS DISABLED.
2. ALL EXISTING ACCESS CONTROL COMPONENTS INCLUDING BUT NOT LIMITED TO ELECTRIC STRIKES, PROXIMITY READERS, DOOR POSITION SWITCHES, REQUEST TO EXIT DEVICES, AND ACCESS CONTROL PANEL AND COMPUTER SHALL BE REMOVED.
3. ALL EXISTING FIRE ALARM SYSTEM COMPONENTS INCLUDING BUT NOT LIMITED TO PULL STATIONS AND THE FACP SHALL REMOVED.
4. ALL ASSOCIATED WIRE AND EXPOSED CONDUIT FOR DEVICES BEING REMOVED SHALL BE REMOVED BACK TO THEIR POINT OF ORIGIN.
5. EXISTING INFORMATION SHOWN ON DRAWINGS WAS OBTAINED FROM EXISTING DRAWINGS AND FIELD MEASUREMENTS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF EXISTING INFORMATION AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
6. DRAWINGS IN GENERAL DO NOT SHOW DIMENSIONS OF EXISTING CONSTRUCTION. BUT ARE DRAWN APPROXIMATELY TO SCALE. CONTRACTOR SHALL OBTAIN ALL DIMENSIONS REQUIRED FOR CONSTRUCTION.
7. PLANS DO NOT NECESSARILY SPELL OUT ALL ITEMS REQUIRING DEMOLITION, REMOVAL, OR PATCHING. WHERE NOT SHOWN, ALL DEMOLITION, REMOVAL, CUTTING, PATCHING, AND OTHER WORK NECESSARY TO ACCOMMODATE NEW CONSTRUCTION SHOWN SHALL BE PROVIDED AS PART OF THE CONTRACT.



KEY NOTES:

1. REMOVE GAS UNIT HEATER THERMOSTAT AND ASSOCIATED WIRING BACK TO SOURCE.
2. REMOVE EXISTING MAKE-UP AIR UNIT, ROOF CURB, ASSOCIATED DUCTWORK, AND ALL ASSOCIATED ELECTRICAL CONTROLS WIRING AND CONDUIT BACK TO THEIR POINT OF ORIGIN. REMOVE EXISTING NATURAL GAS REGULATOR AND PIPING BACK TO SHUT OFF VALVE ADJACENT TO UNIT.
3. FIRE PROTECTION CONTRACTOR SHALL REMOVE EXISTING FIRE PROTECTION PIPING, VALVES, CONTROLS, ETC. NEW WATER SERVICE ENTRANCE TO BECOME FIRE PROTECTION RISER.
4. REMOVE EXISTING ROOF DRAIN PIPING. CUT PIPE TO BELOW FLOOR SLAB, CAP PIPE AND FILL WITH NON-SHRINK GROUT. CONCRETE ELEVATION TO MATCH EXISTING.
5. REMOVE EXISTING 12" SANITARY PIPE, VALVE AND VALVE BOX. PLUG HOLE WATERTIGHT IN EXISTING STORM MANHOLE. SEE SHEET P1.1 FOR NEW ROUTING.
6. REMOVE CONNECTION TO CATCH BASIN. CAP BELOW SLAB. LOCATE EXISTING PIPE CAP AND PREPARE FOR RECONNECTION.
7. REMOVE ALL DOOR ACCESS CONTROL COMPONENTS AND ALL ASSOCIATED WIRE AND CONDUIT BACK TO THEIR POINT OF ORIGIN.
8. REMOVE EXISTING FIRE ALARM CONTROL PANEL AND ALL ASSOCIATED ANNUNCIATION AND INITIATION DEVICES BACK TO THEIR POINT OF ORIGIN.
9. REMOVE ACCESS CONTROL SYSTEM MONITORING COMPUTER AND CONTROL PANEL.
10. EXISTING PAINT BOOTH AND PAINT STORAGE ROOM FIRE PROTECTION SYSTEM TO BE REUSED WITH NEW FIRE PROTECTION SYSTEM. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING FIRE PROTECTION SYSTEM AND ITS COMPLIANCE WITH NFPA 13 SECTION 13.4 FOR THE SPRAY BOOTH AND NFPA 13 SECTION 13.2 FOR THE PAINT STORAGE ROOM. DEMOLISH EXISTING PIPING, VALVES, CONTROLS, ETC. AS NECESSARY LOCATED IN THE UTILITY ROOM PER KEYNOTE 3.
11. REMOVE THE THERMOSTAT AND ASSOCIATED WIRING BACK TO SOURCE.
12. MAU-04 IS CURRENTLY POWERED FROM PANEL J.
13. MAU-02 IS CURRENTLY POWERED FROM PANEL B.
14. MAU-03 IS CURRENTLY POWERED FROM PANEL B.
15. REMOVE EXISTING MAKE UP AIR UNIT CONTROL PANEL.
16. REMOVE EXISTING AIR INTAKE CAP AND ROOF CURB ON ROOF. REMOVE NECESSARY LENGTH OF EXISTING DUCTWORK SO THAT CONTRACTOR CAN TRANSITION FROM EXHAUST FAN INLET SIZE TO EXISTING DUCTWORK SIZE. CONTRACTOR SHALL FIELD VERIFY EXISTING DUCTWORK DIMENSIONS.
17. REMOVE EXISTING GATE OPERATOR CARD READER AND ASSOCIATED WIRE.



FIRST AND SECOND FLOOR DEMOLITION PLANS

FLEET SERVICES BUILDING

MECHANICAL, FIRE PROTECTION, PLUMBING, AND BUILDING SECURITY MODIFICATIONS

CITY OF MADISON

COUNTY OF DANE, WISCONSIN



SHEET
D1.1

JOB NO. 1-020-033

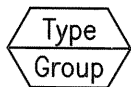
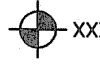
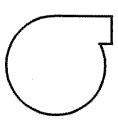
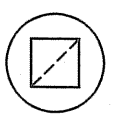
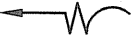
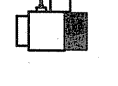
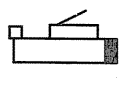
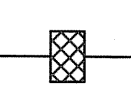
EQUIPMENT ABBREVIATIONS

ACCU	AIR COOLED CONDENSING UNIT
AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
BLR	BOILER
BB	BASEBOARD
BCP	BUILDING CONTROL PANEL
CONV	CONVECTOR
CD	CEILING DIFFUSER
CHILL	CHILLER
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CWP	CHILLED WATER PUMP
DC	DRY COOLER
DH	DEHUMIDIFIER
DL	DRUM LOUVER
EBB	ELECTRIC BASEBOARD
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EJ	EXPANSION JOINT
EL	EXPANSION LOOP
ER	EXHAUST REGISTER
ERC	ELECTRIC REHEAT COIL
ERU	ENERGY RECOVERY UNIT
EUH	ELECTRIC UNIT HEATER
EWL	ELECTRIC WALL HEATER
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FTR	FINNED TUBE RADIATION
FUR	FURNACE
HC	HEATING COIL
HP	HEAT PUMP
HU	HUMIDIFIER
HUH	HOT WATER UNIT HEATER
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
L	LOUVER
MAU	MAKE-UP AIR UNIT
P	PUMP
PC	PUMPED CONDENSATE
RCP	RADIANT CEILING PANEL
RF	RETURN FAN
RG	RETURN GRILLE
RR	REGISTER
RTU	ROOFTOP UNIT
SD	SUCTION DIFFUSER
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SR	SUPPLY REGISTER
SS	SPLIT SYSTEM
ST	STEAM TRAP
SUH	STEAM UNIT HEATER
TCP	TEMPERATURE CONTROL PANEL
TG	TRANSFER GRILLE
UH	UNIT HEATER
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME BOX
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE

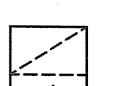
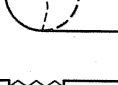
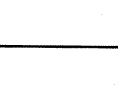
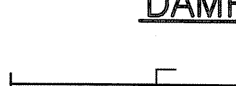
GENERAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AP	ACCESS PANEL
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
COND	CONDENSATE
DAT	DISCHARGE AIR TEMPERATURE
DB	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DG	DOOR GRILLE
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EL	ELEVATION
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
FC	FAIL CLOSED
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
FO	FAIL OPEN
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FT	FEET
FVNR	FULL VOLTAGE NON REVERSING
GA	GAUGE
GPM	GALLONS PER MINUTE
HHW	HEATING HOT WATER
IPLV	INTEGRATE PART LOAD VALVE
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSANDS OF BTU PER HOUR
MC	MECHANICAL CONTRACTOR
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
ODP	OPEN DRIP PROOF
OV	OUTLET VELOCITY
PD	PRESSURE DROP
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SP	STATIC PRESSURE
TEFC	TOTALLY ENCLOSED FAN COOLED
WB	WET BULB

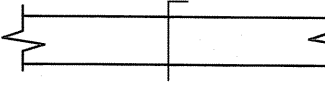
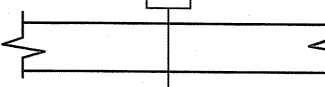
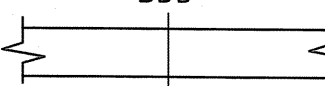
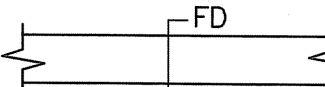
EQUIPMENT SYMBOLS

	EQUIPMENT TAG
	CONNECT TO EXISTING (TIE-IN NUMBER)
	BASE MOUNTED PUMP
	INLINE PUMP
	UNIT HEATER
	ROOF EXHAUST FAN
	AIR FLOW DIRECTION
	CEILING DIFFUSER WITH FLEXIBLE DUCT
	VARIABLE AIR VOLUME (VAV) BOX WITH HEATING HOT WATER REHEAT COIL
	VARIABLE AIR VOLUME (VAV) BOX WITH ELECTRIC REHEAT COIL
	DUCT BOOST COIL

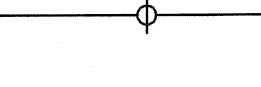
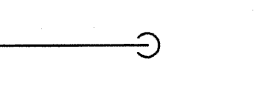
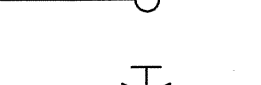
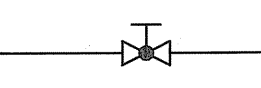
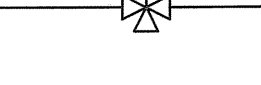
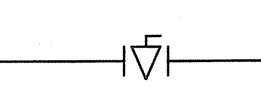
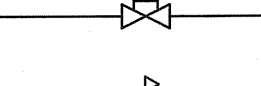
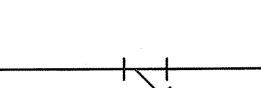
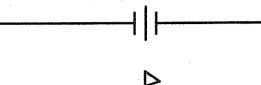
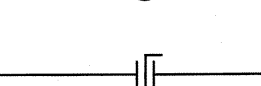
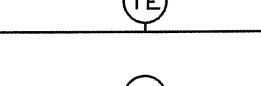
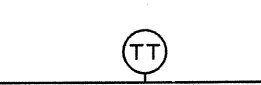
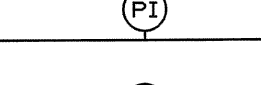
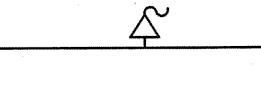
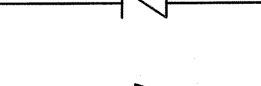
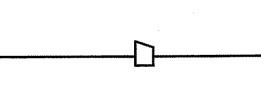
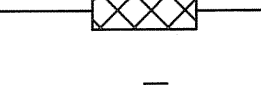
DUCTWORK SYMBOLS

	SUPPLY OR OUTSIDE AIR DUCT (UP OR SECTION)
	SUPPLY OR OUTSIDE AIR DUCT (DOWN OR AWAY)
	EXHAUST OR RETURN DUCT (UP OR SECTION)
	EXHAUST OR RETURN DUCT (DOWN OR AWAY)
	ROUND DUCTWORK UP
	ROUND DUCTWORK DOWN
	FLEXIBLE CANVAS CONNECTION
	TURNING VANES

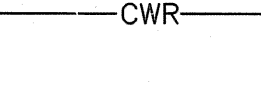
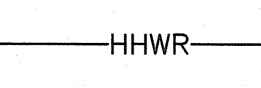
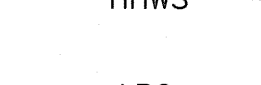
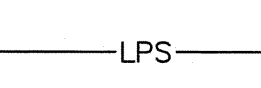
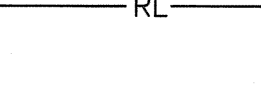
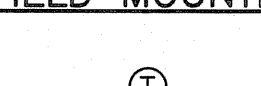
DAMPER SYMBOLS

	MANUAL VOLUME DAMPER
	AUTOMATIC DAMPER
	BACKDRAFT DAMPER
	1-1/2 HR. FIRE DAMPER

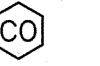
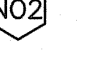
PIPING SYMBOLS

	BALL VALVE
	TEE DOWN
	TEE UP
	ELBOW DOWN
	ELBOW UP
	GATE VALVE
	GLOBE VALVE
	3-WAY VALVE
	METER
	GAS SHUTOFF PLUG VALVE
	BALANCING VALVE
	PRESSURE REDUCING VALVE
	STRAINER
	UNION
	GAS PRESSURE REGULATOR
	BUTTERFLY VALVE
	TEMPERATURE ELEMENT
	TEMPERATURE INDICATOR
	TEMPERATURE TRANSMITTER
	PRESSURE INDICATOR
	PRESSURE TRANSMITTER
	FLOW SWITCH
	MANUAL AIR VENT
	CHECK VALVE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	FLEXIBLE CONNECTOR
	TRIPLE DUTY VALVE
	FLOOR DRAIN

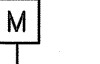
PIPING DESIGNATIONS

	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	GAS PIPING
	HEATING HOT WATER RETURN
	HEATING HOT WATER SUPPLY
	LOW PRESSURE CONDENSATE
	LOW PRESSURE STEAM
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION

FIELD MOUNTED CONTROLS

	THERMOSTAT
	TEMPERATURE SENSOR
	ROOM HUMIDISTAT
	PRESSURE SENSOR
	ROOM SENSOR
	DUCT SMOKE DETECTOR
	CARBON MONOXIDE SENSOR
	NO2 SENSOR
	METHANE SENSOR

ACTUATORS

	MOTOR (ELECTRIC)
	PNEUMATIC
	SOLENOID

GENERAL NOTES:

1. THERMOSTATS ON EXTERIOR WALLS SHALL HAVE INSULATED BASES.
2. ALL WORK TO BE COMPATIBLE WITH BUILDING CONSTRUCTION CLASS AND OCCUPANCY.
3. SEE SPECIFICATION SECTION 15951B FOR REQUIRED I/O DEVICES FOR NEW DDC CONTROL SYSTEM.

DESIGN CONDITIONS

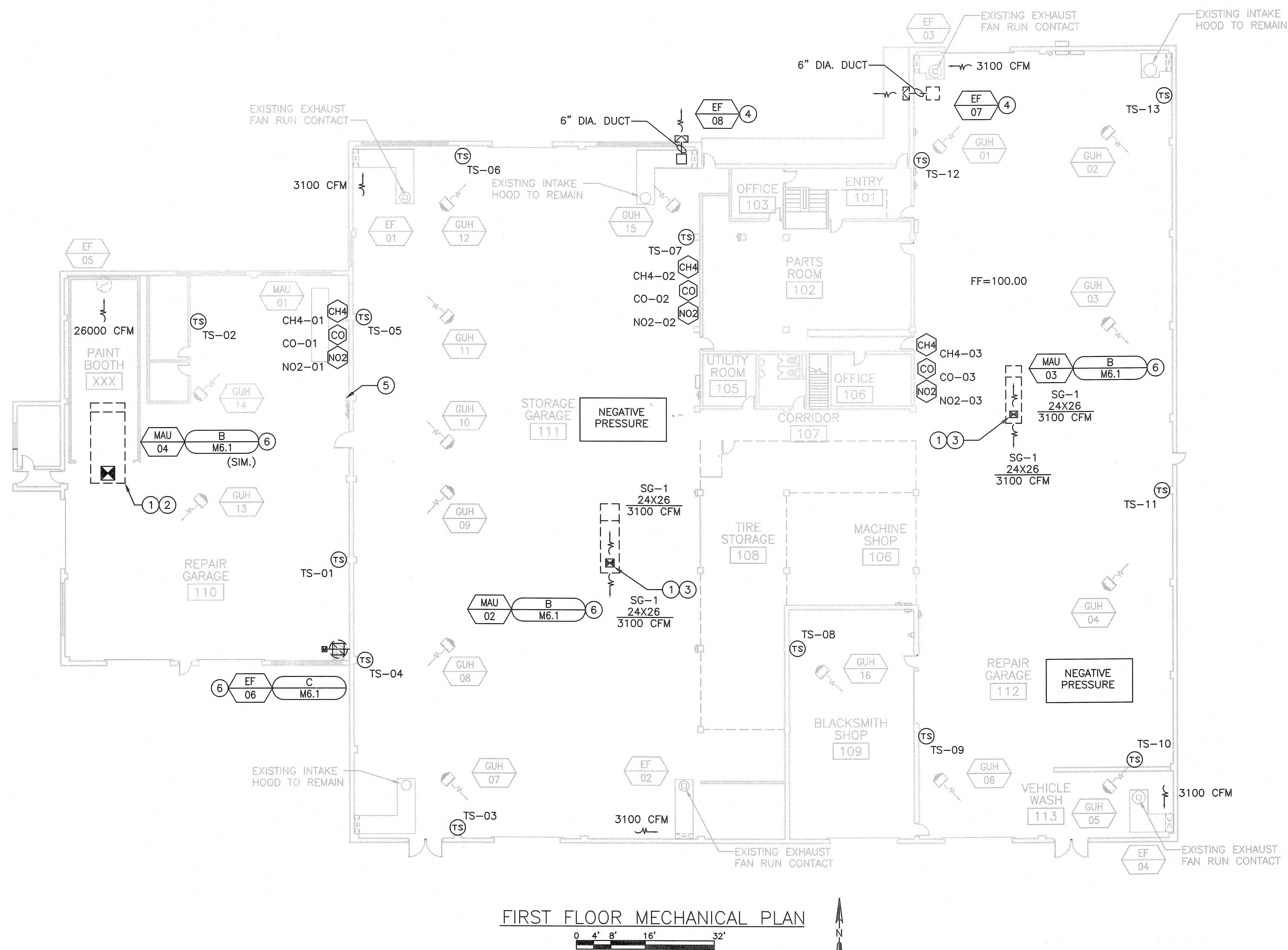
APPLICABLE BUILDING CODE: 2002 WISCONSIN COMMERCIAL BUILDING CODE		SUMMER EXTERIOR: 87°F DB / 74°F WB WINTER EXTERIOR: -15°F DB		
OCCUPANCY TYPE	VENTILATION	SUMMER INTERIOR (DB/WB)	WINTER INTERIOR (DB)	REMARKS
SERVICE GARAGE	0.5 CFM / SQ. FT.	--	60	

MECHANICAL SYMBOLS AND ABBREVIATIONS
FLEET SERVICES BUILDING
MECHANICAL, FIRE PROTECTION, PLUMBING, AND BUILDING SECURITY MODIFICATIONS
CITY OF MADISON
COUNTY OF DANE, WISCONSIN



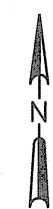
SHEET
M0.1

JOB NO. 1-020-033



FIRST FLOOR MECHANICAL PLAN

0 4' 8' 16' 32'

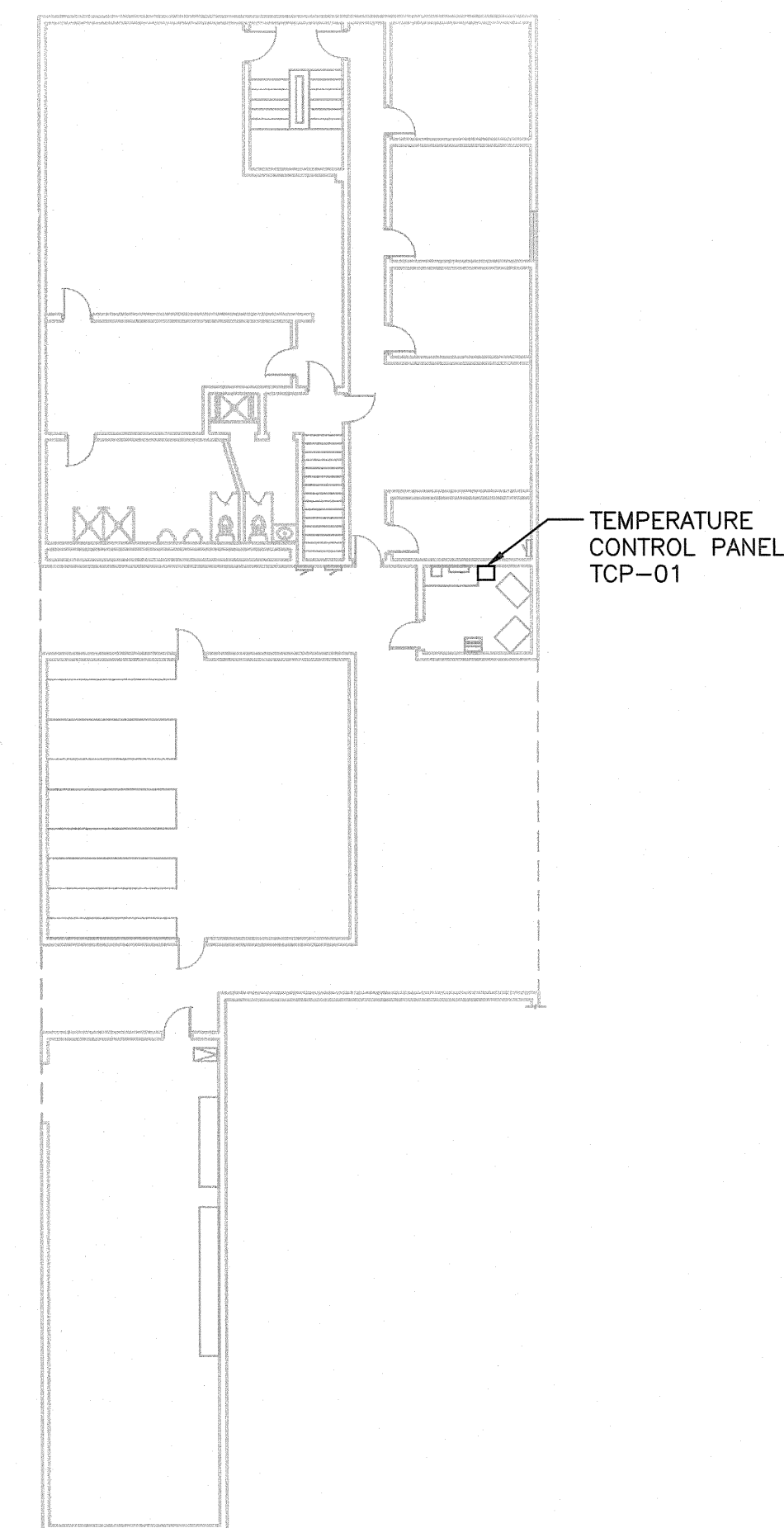


GENERAL NOTES:

- SEE SHEET M0.1 FOR GENERAL NOTES.

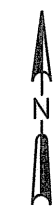
KEY NOTES:

- APPROXIMATE LOCATION OF EXISTING ROOF OPENING. CONTRACTOR SHALL MODIFY ROOF OPENING FOR NEW MAKE-UP AIR UNIT DISCHARGE. CONTRACTOR SHALL FIELD VERIFY LOCATION AND EXISTING CONDITIONS.
- TERMINATE OPEN DUCTWORK AT BOTTOM OF JOISTS.
- EXTEND 22/24 MAKE-UP AIR UNIT DUCTWORK DISCHARGE BELOW BOTTOM OF JOIST TO CREATE DIFFUSER BOX. PROVIDE SHEET METAL CAP ON BOTTOM OF DUCTWORK. TOP OF SUPPLY GRILLES SHALL BE BELOW ADJACENT LIGHTS.
- PROVIDE ANGLE BRACKET SUPPORT FOR MOUNTING TO WALL. MOUNT EXHAUST FAN AT 8'-0" AFF.
- EXISTING STARTER FOR EXHAUST FAN EF-05.
- PROVIDE NEW NATURAL GAS PIPING AND REGULATOR ON ROOF FROM EXISTING SHUTOFF VALVE TO NEW MAKE-UP AIR UNIT. REGULATE PRESSURE TO MANUFACTURER RECOMMENDED OPERATING PRESSURE FOR EQUIPMENT BEING SERVED. NATURAL GAS DISTRIBUTION PRESSURE IS 15 PSI.



SECOND FLOOR MECHANICAL PLAN

0 4' 8' 16' 32'



DATE:	
REVISIONS	
NO.	

DATE: NOVEMBER, 2007	DES BY: NLB	CHK BY: MRS
RECORD DRAWING	BY:	DATE:
	CONTRACTOR:	

FIRST AND SECOND FLOOR MECHANICAL PLAN
FLEET SERVICES BUILDING
MECHANICAL, FIRE PROTECTION, PLUMBING, AND BUILDING SECURITY MODIFICATIONS
CITY OF MADISON
COUNTY OF DANE, WISCONSIN



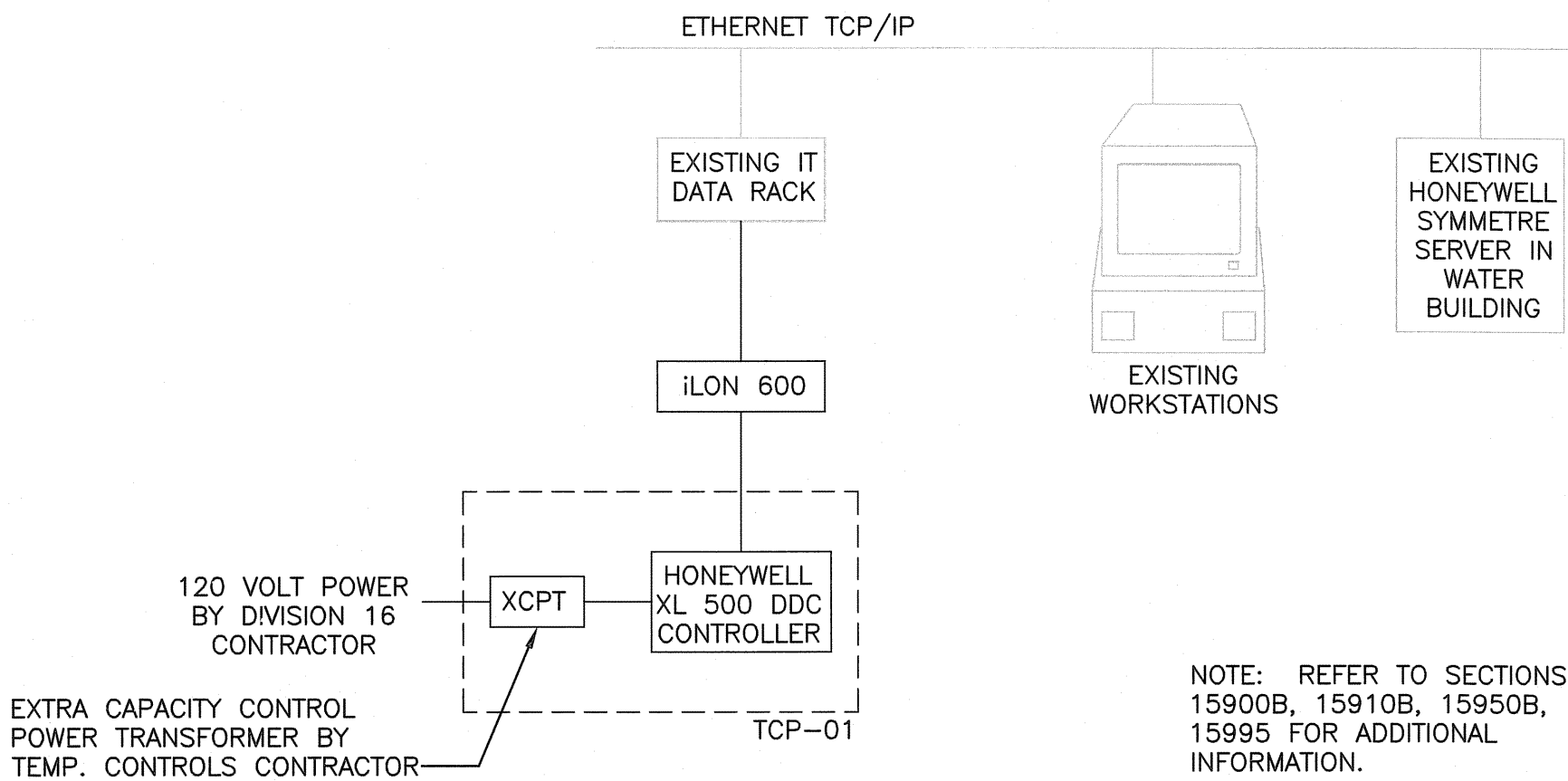
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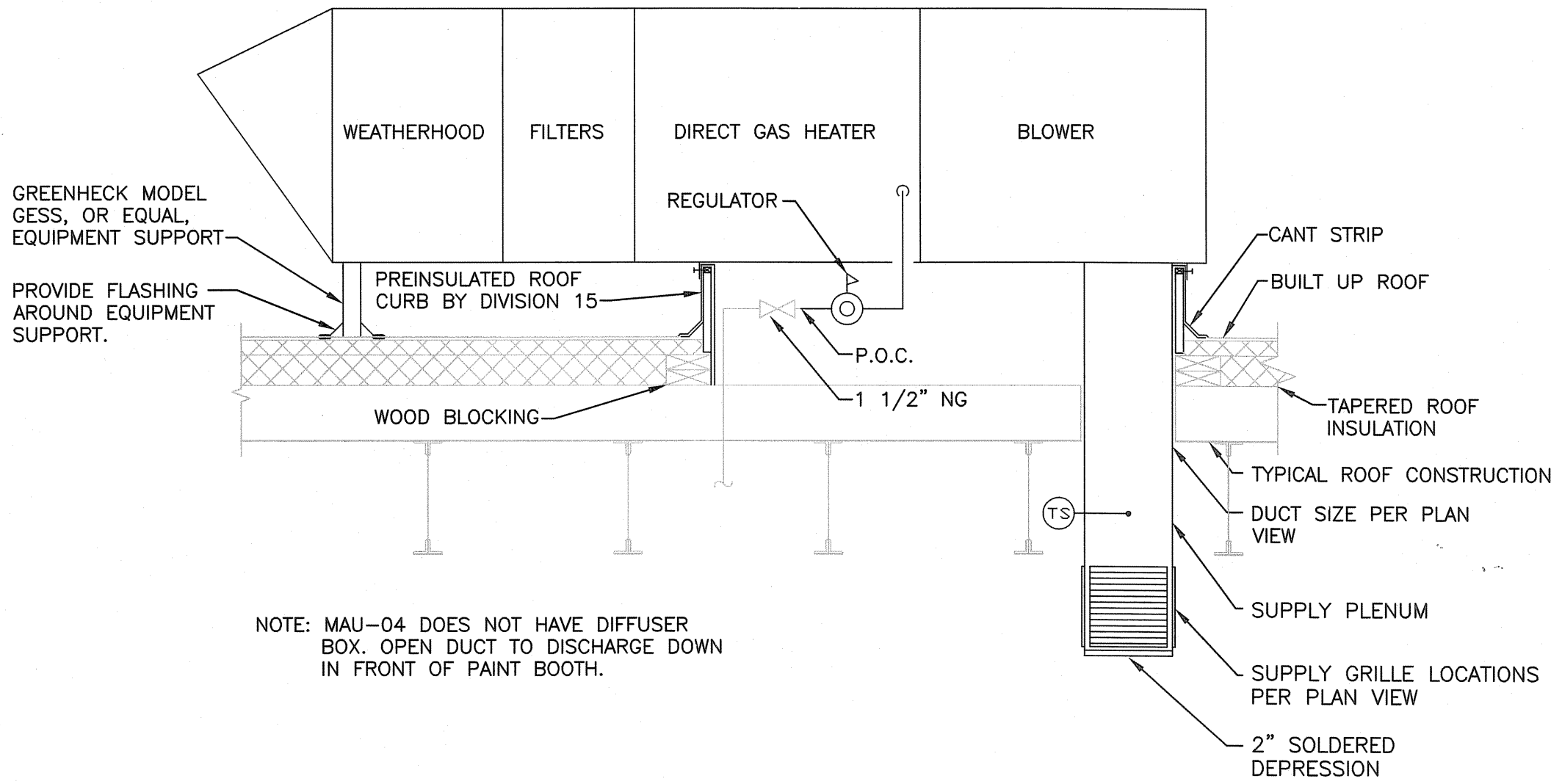
MAKE UP AIR UNIT SCHEDULE																		
UNIT NO. MAU-	SERVICE	GREENHECK MODEL NO.	AIRFLOW (CFM)	EXT. STATIC PRESSURE (IN. W.C.)	NATURAL GAS HEATING SECTION							ELECTRICAL						
					MAX. PRESSURE (IN. W.C.)	MIN. PRESSURE (IN. W.C.)	INPUT (MBH)	OUTPUT (MBH)	EAT (°F)	LAT (°F)	STAGES	MOTOR (HP)	VOLTAGE	PHASE	FLA	STARTER BY	DISCONNECT BY	OPERATING WEIGHT (LBS.)
02	SERVICE GARAGE	DGX-118-H32	6200	0.5	14	6	587.1	540.1	-15	65	20	3	208	3	14.5	MANUFACTURER	MANUFACTURER	1900
03	SERVICE GARAGE	DGX-118-H32	6200	0.5	14	6	587.1	540.1	-15	65	20	3	208	3	14.5	MANUFACTURER	MANUFACTURER	1900
04	PAINT BOOTH	DGX-127-H38	26000	0.25	14	6	2441.7	2246.4	-15	65	20	2	208	3	69.3	MANUFACTURER	MANUFACTURER	3400

FAN SCHEDULE													
UNIT NO.	SERVICE	GREENHECK MODEL NO.	AIRFLOW (CFM)	EXT. S.P. (IN. W.C.)	MOTOR SIZE (HP)	FAN TYPE	MOTOR TYPE	DRIVE	ELECTRICAL				REMARKS
									VOLTAGE	PHASE	STARTER BY	DISCONNECT BY	
EF-06	REPAIR GARAGE	CUBE-200	4000	0.5	1	UPBLAST	TEFC	BELT	208	3	DIV 16	MFR.	
EF-07	SERVICE GARAGE	CSP-A290	266	0.25	FRAC.	CABINET	ODP	DIRECT	115	1	MFR.	MFR.	
EF-08	SERVICE GARAGE	CSP-A290	266	0.25	FRAC.	CABINET	ODP	DIRECT	115	1	MFR.	MFR.	

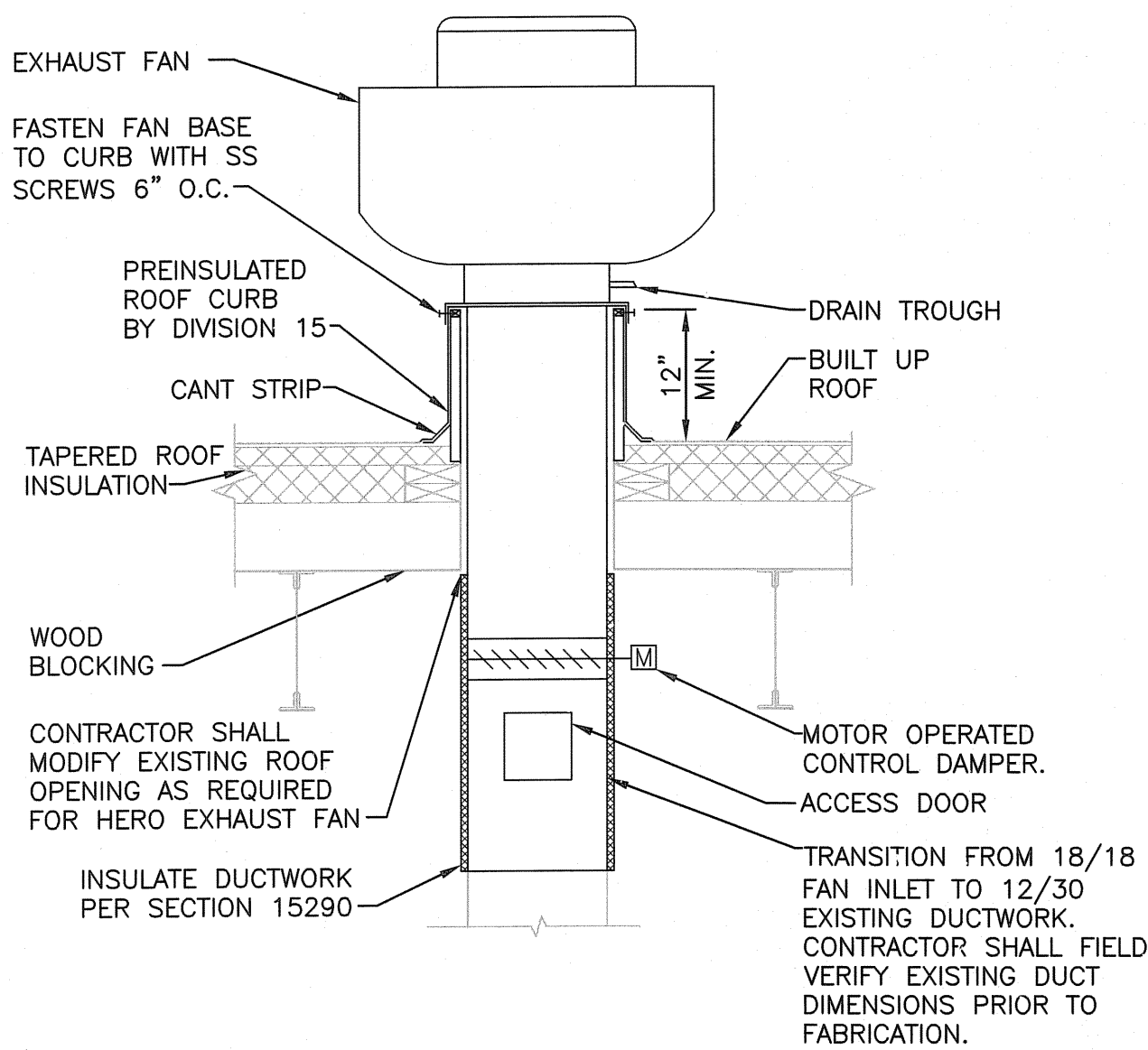
AIR REGISTER AND GRILLE SCHEDULE										
UNIT NO.	CARNES MODEL NO.	FINISH	TYPE	MATERIAL	SIZE	OBD DAMPER	MOUNTING			REMARKS
							LAY-IN	SURFACE	SIDEWALL	
SG-1	RSDB	MILL	SUPPLY GRILLE	STEEL	SEE PLANS	NO		*		



A
M6.1
TEMPERATURE CONTROL SYSTEM RISER
NO SCALE



B
M6.1
MAKE-UP AIR UNIT DETAIL
NO SCALE



C
M6.1
UPBLAST EXHAUST FAN DETAIL
NO SCALE

MECHANICAL SCHEDULES AND DETAILS

FLEET SERVICES BUILDING

MECHANICAL, FIRE PROTECTION, PLUMBING, AND BUILDING SECURITY MODIFICATIONS

CITY OF MADISON

COUNTY OF DANE, WISCONSIN



SHEET
M6.1

JOB NO. 1-020-033

PLUMBING ABBREVIATIONS

BF	BLIND FLANGE	P	PUMP
CB	CATCH BASIN	POC	POINT OF CONNECTION
CA	COMPRESSED AIR	PRV	PRESSURE REDUCING VALVE
CD	CONDENSATE DRAIN	PVC	POLYVINYL CHLORIDE
CI	CAST IRON	QC	QUICK CONNECT
CO	CLEAN OUT	RD	ROOF DRAIN
COND	CONDENSATE	RZBP	REDUCED ZONE BACKFLOW PREVENTER
CPVC	CHLORINATED POLYVINYL CHLORIDE	SD	SHOWER DRAIN
CW	COLD WATER PIPE	SE	SEWAGE EJECTOR
D	DRAIN	SH	SHOWER
DCBP	DOUBLE CHECK BACKFLOW PREVENTER	SK	SINK
DF	DRINKING FOUNTAIN	SP	SUMP PUMP
DFU	DRAINAGE FIXTURE UNIT	SSK	SERVICE SINK
DI	DUCTILE IRON	SS	STAINLESS STEEL
DS	DOWN SPOUT	SV	SOLENOID VALVE
EEWS	EMERGENCY EYEWASH AND SHOWER	TD	TRENCH DRAIN
EW	EYEWASH	UR	URINAL
EWC	ELECTRIC WATER COOLER	V	VENT
EQC	EQUIPMENT CONNECTION	VB	VACUUM BREAKER
FCO	FLOOR CLEAN OUT	VCP	VITRIFIED CLAY PIPE
FD	FLOOR DRAIN	VTR	VENT THRU ROOF
GD	GARBAGE DISPOSAL	W	WASTE PIPE
HB	HOSE BIBB	WCO	WALL CLEANOUT
HD	HUB DRAIN	WC	WATER CLOSET
HDPE	HIGH DENSITY POLYETHYLENE	WH	WATER HEATER
HR	HOSE REEL	WS	WATER SOFTENER
HWL	HIGH WATER LEVEL	WSFU	WATER SUPPLY FIXTURE UNIT
HW	HOT WATER PIPE		
HWR	HOT WATER RETURN		
IE	INVERT ELEVATION		
IWP	INDIRECT WASTE PIPE		
LV	LAVATORY		
LT	LAUNDRY TRAY		
MSB	MOP SERVICE BASIN		
MH	MANHOLE		

PLUMBING SYMBOLS

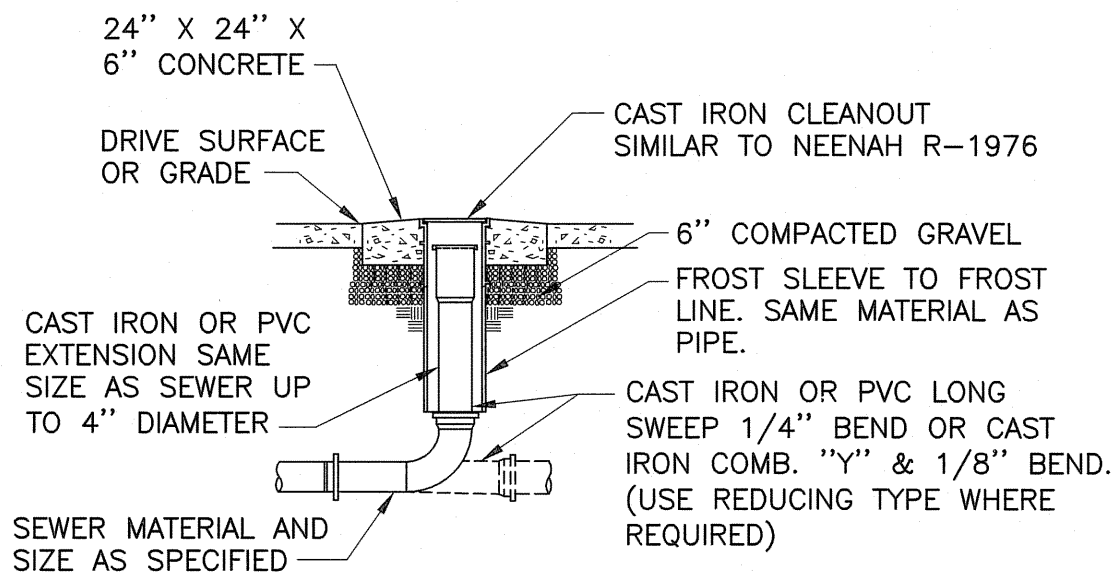
FD	FLOOR DRAIN
RD	ROOF DRAIN
HD	HUB DRAIN
+	HOSE BIBB
	THERMOMETER
6	WATER SUPPLY/DRAINAGE FIXTURE UNITS
	IN LINE PUMP
I	PLUG VALVE
	WATER HAMMER ARRESTER
	BALANCING VALVE
	BALL VALVE
	GATE VALVE
Z	CHECK VALVE
+	PRESSURE GAUGE W/ SHUTOFF
	PRESSURE REDUCING VALVE
	UNION
	TEE DOWN
	TEE UP
	ELBOW DOWN
	ELBOW UP
	BRANCH DOWN
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	TRAP PRIMER
	METER
	GAS PRESSURE REGULATOR
	BUTTERFLY VALVE
CO	CLEAN OUT (FLOOR)
CO	CLEAN OUT (HORIZONTAL)
Q WCO	WALL CLEAN OUT
	FLANGED
	BACKFLOW PREVENTER
	EXPANSION JOINT

PLUMBING DESIGNATIONS

—CA—	COMPRESSED AIR
—CW—	COLD WATER
—HW—	HOT WATER
—HWR—	HOT WATER RETURN
—G—	GAS
—NPW—	NON-POTABLE WATER
—SPD—	SUMP PUMP DISCHARGE
—SW—	SOFT WATER
—	VENT PIPE
----	WASTE BELOW GRADE
—	WASTE ABOVE GRADE
----	STORM BELOW GRADE
—	STORM ABOVE GRADE
—	EXISTING PIPE
—	NEW PIPE
XXXX	DEMO PIPE
////	ABANDON PIPE

GENERAL NOTES:

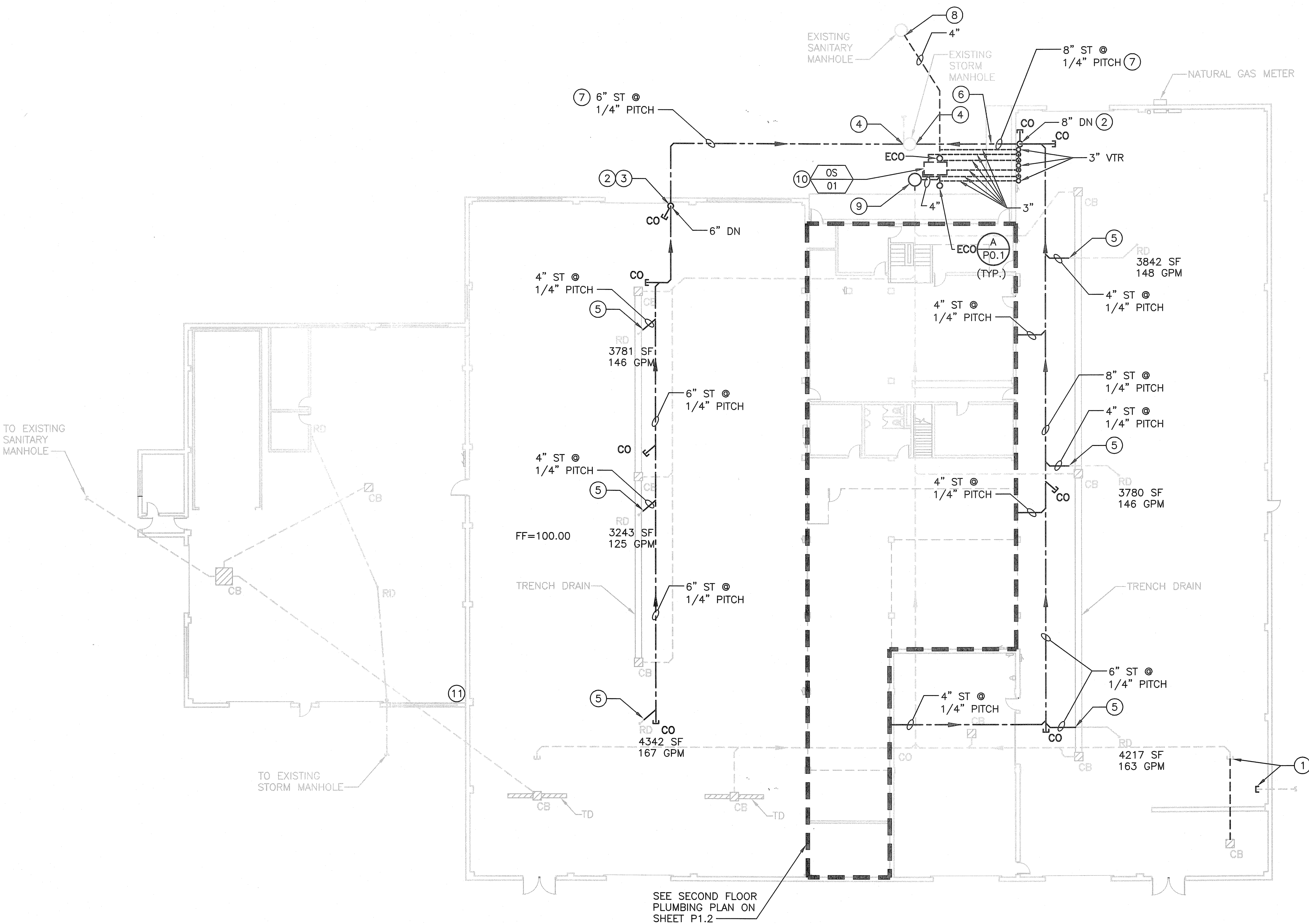
- COORDINATE WITH OTHER TRADES TO ELIMINATE ANY CONFLICTS BETWEEN PIPING, DUCTWORK, ELECTRICAL WORK, ETC.
- FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPES SIZES NOT SHOWN ON FLOOR PLANS, REFER TO DETAILS, ISOMETRICS AND SCHEDULES.
- PIPE ROUTING IS SHOWN IN APPROXIMATE LOCATIONS.
- PLUMBING CONTRACTOR SHALL COORDINATE WITH MECHANICAL AND GENERAL CONTRACTORS FOR VERTICAL CHASE AND WALL REQUIREMENTS.
- VERIFY PLUMBING EQUIPMENT CONNECTION REQUIREMENTS.
- PLUMBING CONTRACTOR SHALL PROVIDE ACCESSIBILITY TO ALL VALVES AND CONTROL DEVICES. FURNISH ACCESS PANELS WHERE SHOWN OR REQUIRED FOR ACCESS TO ALL CONCEALED VALVES OR OTHER EQUIPMENT FURNISHED UNDER THIS CONTRACT WHERE NO OTHER MEANS IS PROVIDED.
- DRAWING INTENT IS TO INDICATE GENERAL ARRANGEMENT, DESIGN AND INTENT OF WORK, AND IS PARTIALLY DIAGRAMMATIC. DRAWING SHALL NOT BE SCALED.
- CONTRACTOR SHALL PROVIDE EQUIPMENT AND INSTALLATION TO MEET APPLICABLE CODE REQUIREMENTS IN CONJUNCTION WITH THESE DRAWING DOCUMENTS AND ASSOCIATED SPECIFICATIONS.



A EXTERIOR CLEANOUT
P0.1 NO SCALE

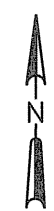
PLUMBING SYMBOLS, ABBREVIATIONS, AND DETAILS
FLEET SERVICES BUILDING
MECHANICAL, FIRE PROTECTION, PLUMBING, AND BUILDING SECURITY MODIFICATIONS
CITY OF MADISON
COUNTY OF DANE, WISCONSIN





OVERALL PLUMBING PLAN

0 4' 8' 16' 32'



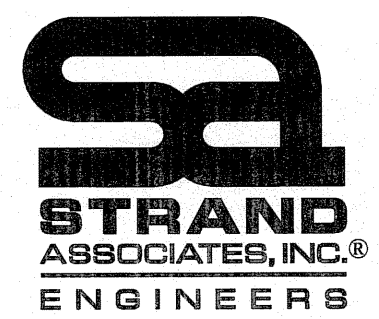
GENERAL NOTES:

- SEE SHEET P0.1 FOR GENERAL NOTES.

KEY NOTES:

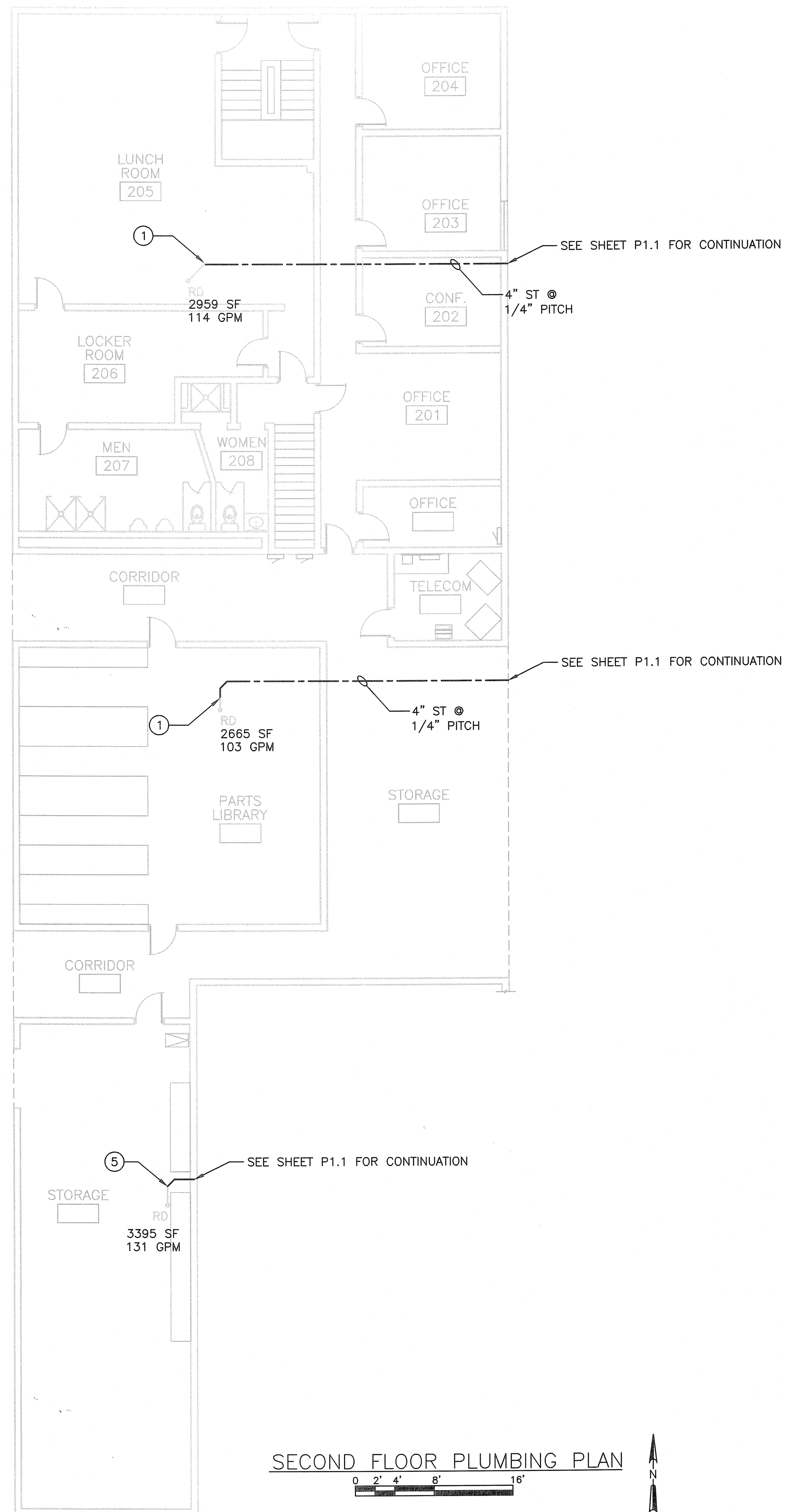
- CONNECT TO EXISTING UNDERGROUND DRAIN. REMOVE AND CAP EXISTING CONNECTION. FILL WITH NON-SHRINK GROUT TO MATCH EXISTING FINISHED FLOOR ELEVATION. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING PIPE FOR CONNECTION POINT.
- PROVIDE CLEANOUT ON STACK AT 3'-0" AFF.
- CONTRACTOR SHALL COORDINATE WITH FIRE PROTECTION SERVICE ENTRANCE FOR AVAILABLE SPACE IN THIS LOCATION.
- CONNECT NEW STORM PIPING TO EXISTING STORM MANHOLE.
- CONNECT EXISTING ROOF DRAINS TO NEW ABOVE GROUND STORM PIPING.
- CONTRACTOR SHALL REPLACE CONCRETE THAT WAS REMOVED TO INSTALL PIPING. MATCH EXISTING FINISH AND GRADE.
- PIPING ROUTED BELOW GRADE.
- CONNECT TO EXISTING SANITARY MANHOLE.
- NEW MANHOLE. CONNECT EXISTING 12" DIAMETER PIPE TO NEW MANHOLE. IE OF EXISTING 12" DIAMETER PIPE IS APPROXIMATELY 54" BELOW GRADE. CONTRACTOR SHALL FIELD VERIFY DEPTH.
- PROVIDE ROCKFORD SEPARATOR OIL SEPARATOR MODEL OST-5630, OR EQUAL. UNIT SHALL BE CAPABLE OF 50 GPM AND 100 GALLON INTERNAL OIL STORAGE CAPACITY. 4-INCH INLET AND 4-INCH OUTLET CONNECTIONS. PROVIDE INTEGRAL EXTENSIONS TO GRADE AS NECESSARY TO MEET DEPTH REQUIREMENTS. PROVIDE CONCRETE HOLD-DOWN PADS, PUMP-OUT CONNECTION, AND RECESSED LIFT HANDLES. UNIT SHALL BE APPROVED AND INSTALLED IN ACCORDANCE WITH WISCONSIN PLUMBING CODE.
- CONTRACTOR SHALL MODIFY COMPRESSED AIR PIPING AS REQUIRED FOR MOUNTING EF-06 COMBINATION STARTER. PROVIDE NECESSARY FITTINGS AS REQUIRED.

FIRST FLOOR PLUMBING PLAN
FLEET SERVICES BUILDING
MECHANICAL, FIRE PROTECTION, PLUMBING, AND BUILDING SECURITY MODIFICATIONS
CITY OF MADISON
COUNTY OF DANE, WISCONSIN



SHEET
P1.1

JOB NO. 1-020-033



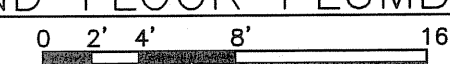
GENERAL NOTES:

- SEE SHEET P0.1 FOR GENERAL NOTES.

KEY NOTES:

- CONNECT EXISTING ROOF DRAINS TO NEW ABOVE GROUND STORM PIPING.

SECOND FLOOR PLUMBING PLAN



NO.	REVISIONS	DATE

DATE: NOVEMBER, 2007	DES BY: NLB	CHK BY: BTM
RECORD DRAWING	BY:	DATE:
CONTRACTOR:		

SECOND FLOOR PLUMBING PLAN
 FLEET SERVICES BUILDING
 MECHANICAL, FIRE PROTECTION, PLUMBING, AND BUILDING SECURITY MODIFICATIONS
 CITY OF MADISON
 COUNTY OF DANE, WISCONSIN



SHEET
P1.2

JOB NO. 1-020-033

ABBREVIATION	DEFINITION
A	AMPERE
AF	AMPERE FRAME
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CR	CARD READER
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT
DP	DOOR POSITION SWITCH
E	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE DEVICE
ES	ELECTRIC STRIKE
ETM	ELASPE TIME METER
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPERES
FLS	FLOW SWITCH
FPCP	FIRE PUMP CONTROL PANEL
FT	FEET
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
GRD	GROUND
GFP	GROUND FAULT PROTECTION (EQUIPMENT)
GFI	GROUND FAULT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
HOA	HAND OFF AUTO
HP	HORSEPOWER
HZ	HERTZ
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
J	JUNCTION BOX
KVA	KILOVOLT AMPERES
KVAR	KILOVOLT AMPERES REACTIVE
KW	KILOWATT
LTG	LIGHTING
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MCCB	MOLDED CASE CIRCUIT BREAKER
MCM	THOUSAND CIRCULAR MILS
MDP	MAIN DISTRIBUTION PANELBOARD
ML	MAGNETIC LOCK
MLO	MAIN LUGS ONLY
MS	MOTION SENSOR
N/A	NOT APPLICABLE
NAC	NOTIFICATION APPLIANCE CIRCUIT PANEL
NEC	NATIONAL ELECTRIC CODE
NM	NONMETALLIC
NTS	NOT TO SCALE
OS	OCCUPANCY SENSOR
P	POLE
PB	PULL BOX
ø	PHASE
PNL	PANELBOARD
PR	PAIR
PRI	PRIMARY
PVC	POLYVINYL CHLORIDE
PWR	POWER
RE	REQUEST TO EXIT
RTS	REMOTE TEST SWITCH
SC	SHORT CIRCUIT
SE	SERVICE ENTRANCE
SEC	SECONDARY
SH	SHIELDED
SW	SWITCH
TEL	TELEPHONE
TS	THERMOSTAT
TYP	TYPICAL
UG	UNDERGROUND
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLTS
W	WIRE OR WATT
WP	WEATHERPROOF
XP	EXPLOSION PROOF
Y	WYE

ELECTRICAL SYMBOLS

FIRE ALARM SYMBOLS

	FIRE ALARM CONTROL PANEL
	CLEAN AGENT CONTROL PANEL
	FIRE ANNUNCIATOR CONTROL PANEL
	STROBE; WALL MOUNT – ADA RATED; 80" AFF STROBE CANDELLA RATING
	HORN STROBE; WALL MOUNT – ADA RATED; 80" AFF STROBE CANDELLA RATING
	SPEAKER STROBE; WALL MOUNT – ADA RATED; 80" AFF STROBE CANDELLA RATING
	HORN; WALL MOUNT – ADA RATED; 80" AFF
	SPEAKER; WALL MOUNT – ADA RATED; 80" AFF
	STROBE; CEILING MOUNT – ADA RATED STROBE CANDELLA RATING
	HORN STROBE; CEILING MOUNT – ADA RATED STROBE CANDELLA RATING
	SPEAKER STROBE; CEILING MOUNT – ADA RATED STROBE CANDELLA RATING
	HORN; CEILING MOUNT – ADA RATED
	SPEAKER; CEILING MOUNT – ADA RATED
	HEAT DETECTOR; CEILING MOUNT
	SMOKE DETECTOR; CEILING MOUNT
	SMOKE DETECTOR; CEILING MOUNT IONIZATION DETECTOR
	SMOKE DETECTOR; CEILING MOUNT PHOTOELECTRIC DETECTOR
	SWITCH INDICATION DUCT SMOKE DETECTOR DUCT SIZE
	REMOTE TEST SWITCH DUCT SIZE
	FIRE ALARM PULL STATION
	FLOW SWITCH
	TAMPER SWITCH

POWER SYMBOLS

	CIRCUIT NUMBER (TYPICAL)
	OTHERWISE SHOWN PANEL DESIGNATION (TYP.) DUPLEX, 125 VOLT, WP INDICATES WEATHERPROOF
	DUPLEX, 125 VOLT, ABOVE FURNITURE
	DOUBLE DUPLEX, 125 VOLT, ABOVE FURNITURE
	FIXED EQUIPMENT CONNECTION
	PANELBOARD

SECURITY SYSTEM

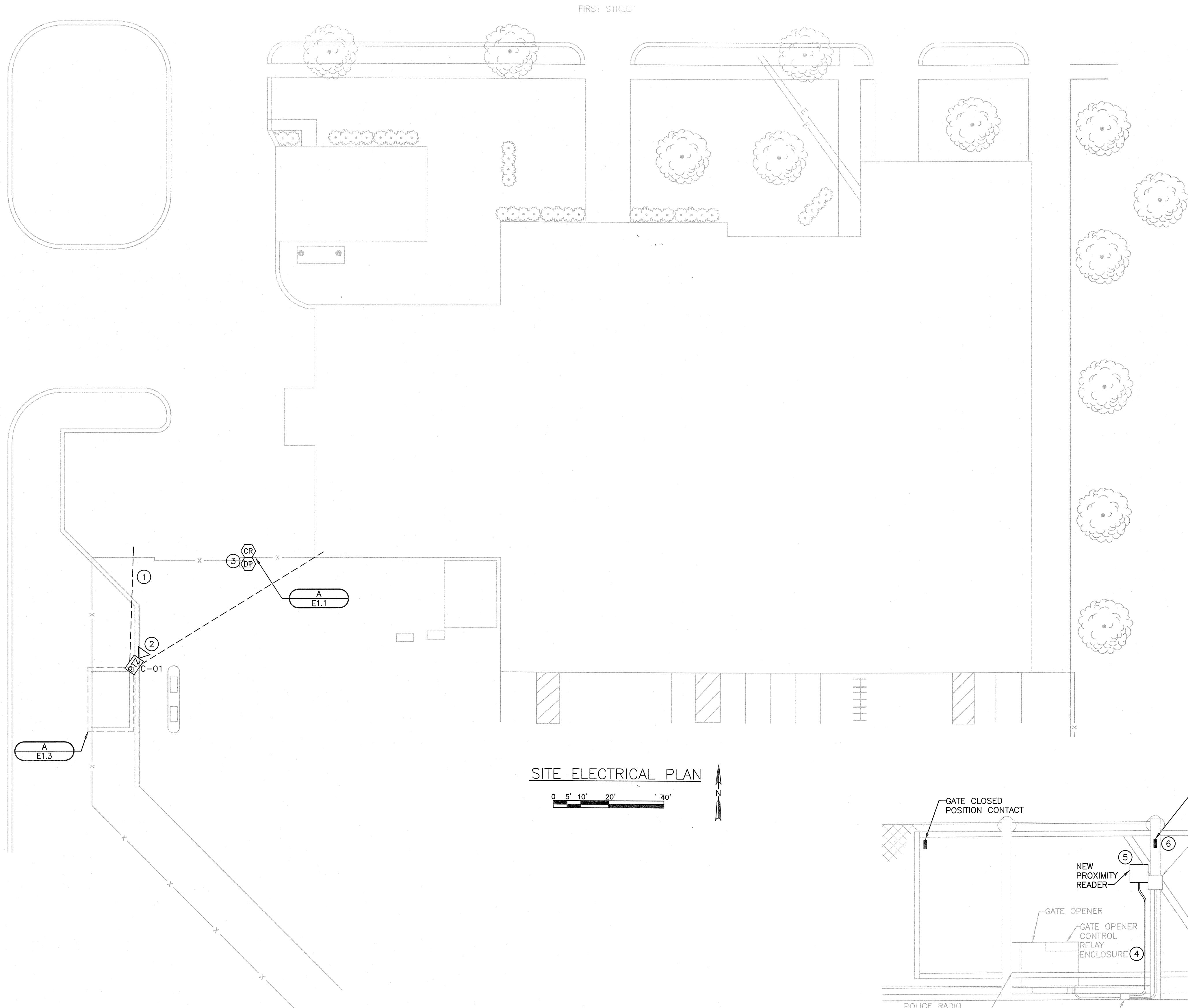
	CARD READER
	ELECTRIC STRIKE
	DOOR POSITION SWITCH
	PUSH BUTTON
	LATCH BOLT MONITOR
	REQUEST TO EXIT
	HANDICAP ACCESSIBLE PUSH PLATE OPENER
	MAGNETIC LOCK
	SPEAKER; CEILING MOUNT – ADA RATED
	KEY PAD
	GLASS BREAK DETECTOR
	MOTION SENSOR
	DOOR SWITCH
	FIXED SECURITY CAMERA ##—CAMERA NUMBER
	PAN, TILT, ZOOM SECURITY CAMERA ##—CAMERA NUMBER

TECHNOLOGY SYMBOLS

	DATA LOBE
	PHONE
	VOICE AND DATA LOBE
	DATA RACK
	CO-AXIAL CABLE
	POWER POLE
	SPEAKER

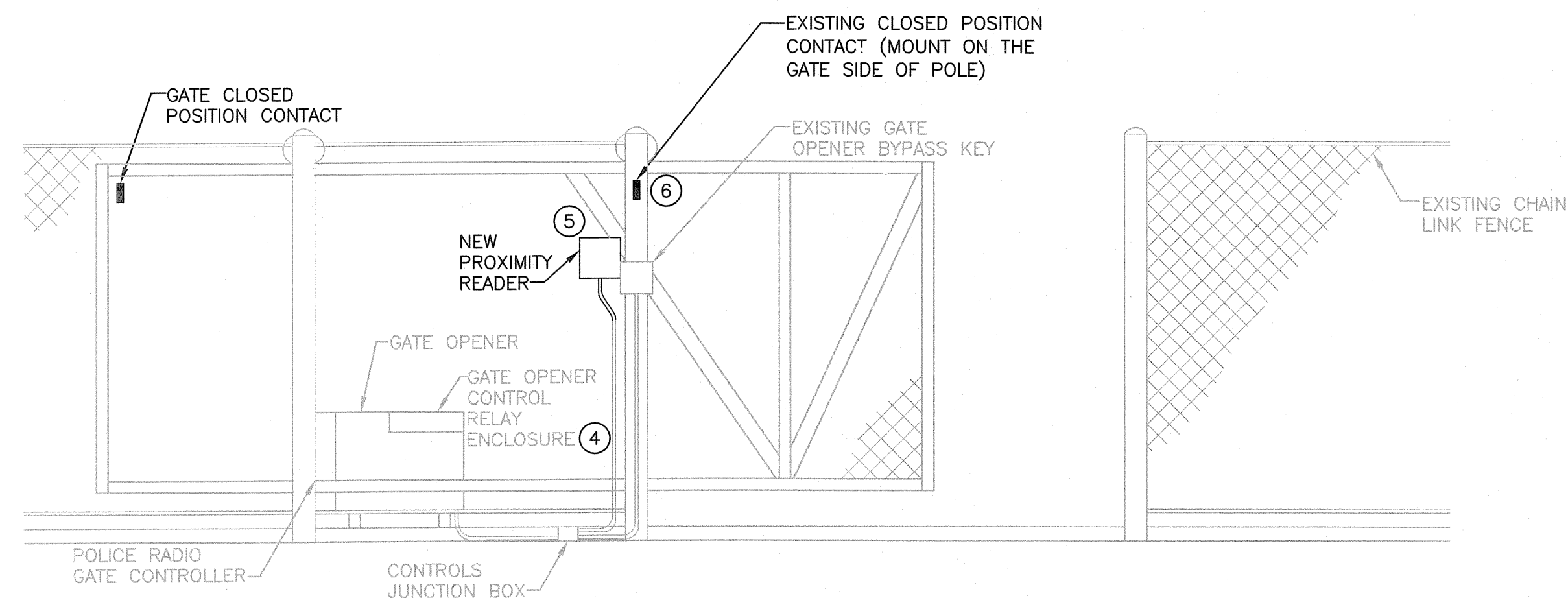
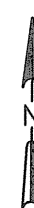
ELECTRICAL SYMBOLS AND ABBREVIATIONS
FLEET SERVICES BUILDING
MECHANICAL, FIRE PROTECTION, PLUMBING, AND BUILDING SECURITY MODIFICATIONS
CITY OF MADISON
COUNTY OF DANE, WISCONSIN





SITE ELECTRICAL PLAN

0 5' 10' 20' 40'



A E1.1 ENTRANCE GATE MOUNTING DETAIL
NO SCALE

GENERAL NOTES:

1. ALL ACCESS CONTROL SYSTEM COMPONENTS SHALL BE CONTROLLED BY THE BUILDING MANAGEMENT SYSTEM PANEL REFER TO SHEET E1.3 FOR PANEL LOCATION.

KEY NOTES:

1. PROVIDE PTZ CAMERA LENSE TO COVER CAMERA VIEWING ANGLE IDENTIFIED AT HOME POSITION.
2. REFER TO VIDEO SURVEILLANCE RISER DIAGRAM FOR ADDITIONAL ELECTRICAL WORK ASSOCIATED WITH THE CAMERA INSTALLATION.
3. PROVIDE A GATE POSITION SWITCH TO MONITOR GATE CLOSURE AT THE ACCESS CONTROL SYSTEM.
4. PROVIDE ACCESS CONTROL SYSTEM REMOTE READER MODULE IN THE GATE OPENER CONTROL RELAY ENCLOSURE. PROVIDE 2~#14 FROM REMOTE READER MODULE DIGITAL OUTPUT TO GATE CONTROLLER FOR OPEN SIGNAL. COORDINATE OPEN SIGNAL INPUT TERMINATION POINT WITH GATE CONTROLLER MANUFACTURER.
5. PROVIDE NEW PROXIMITY READER ON EXISTING MOUNTING PLATE. CONTRACTOR SHALL RE-USE EXISTING RACEWAY TO THE GATE OPENER. MODIFY AND EXTEND RACEWAY AS REQUIRED.
6. PROVIDE NEW RACEWAY FROM GATE POSITION CONTACT TO THE EXISTING CONTROLS JUNCTION BOX LOCATED AT THE BOTTOM OF THE FENCE. DOOR POSITION CONTACT SHALL TERMINATE IN THE ACCESS CONTROL SYSTEM REMOTE READER MODULE IN THE GATE OPENER ENCLOSURE.

SITE ELECTRICAL PLAN
FLEET SERVICES BUILDING
MECHANICAL, FIRE PROTECTION, PLUMBING, AND BUILDING SECURITY MODIFICATIONS
CITY OF MADISON
COUNTY OF DANE, WISCONSIN

STRAND
ASSOCIATES, INC.
ENGINEERS

SHEET
E1.1

JOB NO. 1-020-033

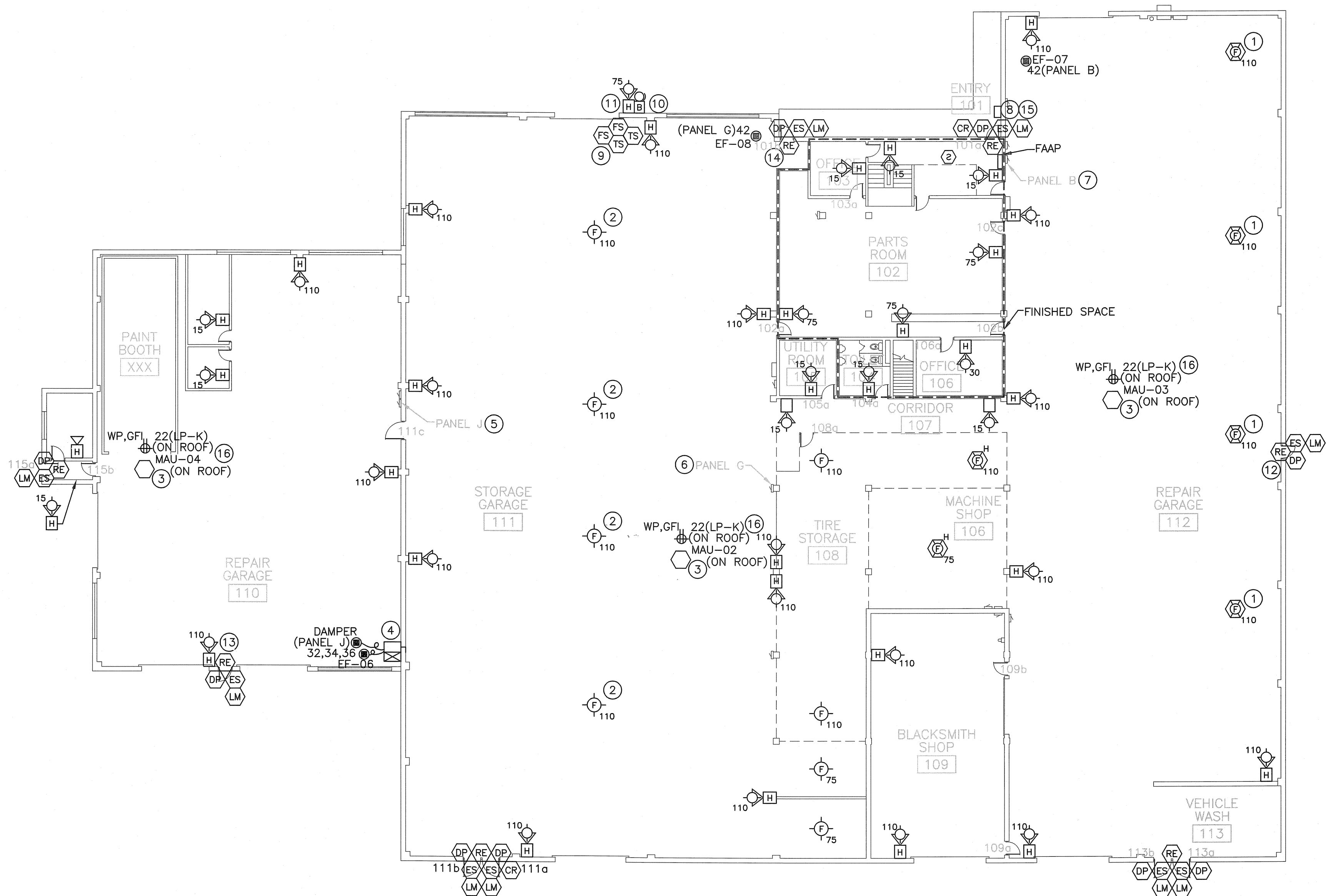
DATE: NOVEMBER, 2007			DATE:	
DES BY: OPH			REVISIONS	
CHK BY: BMS			NO.	
RECORD DRAWING				
BY:				
DATE:				
CONTRACTOR:				

GENERAL NOTES:

1. ALL ACCESS CONTROL SYSTEM COMPONENTS SHALL BE POWERED THROUGH AND CONTROLLED BY THE BUILDING MANAGEMENT SYSTEM PANEL. REFER TO SHEET E1.3 FOR PANEL LOCATION.
2. REFER TO SHEET E5.1 FOR TYPICAL DOOR ACCESS CONTROL WIRING.
3. REFER TO SHEET D1.1 FOR ELECTRICAL DEMOLITION REQUIRED.
4. ELECTRICAL DEVICES LOCATED ON EXISTING MASONRY WALLS IN FINISHED SPACES SHALL BE FED FROM ABOVE THE CEILING AS SHOWN IN DETAIL D/E5.1 USING SURFACE MOUNTED RACEWAY. ELECTRICAL DEVICES LOCATED ON EXISTING GYPSUM BOARD WALLS SHALL BE RECESSED IN THE EXISTING WALL AND FED FROM ABOVE THE CEILING USING ENT TYPE RACEWAY. REFER TO DETAIL E/E5.1 FOR RECESSED DEVICE MOUNTING.
5. PENETRATIONS THROUGH EXISTING WALLS SHALL BE SEALED TO MATCH THE FIRE RATING OF THE EXISTING WALLS.
6. CONTRACTOR SHALL PROVIDE NAC PANELS AS REQUIRED TO POWER FAS ANNUNCIATION DEVICES. CONTRACTOR SHALL PROVIDE A DEDICATED 20 AMP, 120V CIRCUIT BREAKER, WIRE, AND CONDUIT TO POWER EACH NAC PANEL. PROVIDE A SMOKE DETECTOR OVER ALL NAC LOCATIONS. COORDINATE NAC PANEL LOCATIONS WITH OWNER PRIOR TO SUBMITTING VOLTAGE DROP CALCULATIONS.
7. ALL ELECTRICAL WORK PROVIDED BELOW 18" AFF ON THIS FLOOR SHALL BE RATED CLASS 1, DIVISION 2, UNLESS NOTED OTHERWISE.
8. ALL RACEWAY PROVIDE BELOW 10'-0" AFF IN UNFINISHED SPACES SHALL BE CONSIDERED AS REQUIRING MECHANICAL PROTECTION.
9. ALL EXISTING PANEL SCHEDULES SHALL BE UPDATED WITH NEW CIRCUIT INFORMATION ADDED AS PART OF THIS PROJECT.

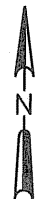
KEY NOTES:

1. DEVICE SHALL BE SUSPENDED FROM THE CEILING WITH IMC CONDUIT SUCH THAT THE DEVICE IS LEVEL WITH THE BOTTOM OF THE LIGHT FIXTURES OVER THE MECHANIC WORK BENCHES.
2. DEVICE SHALL BE SUSPENDED FROM THE CEILING WITH IMC CONDUIT SUCH THAT THE DEVICE IS LEVEL WITH THE BOTTOM OF THE LIGHT FIXTURES ADJACENT THE MAIN DRIVE THRU AREA.
3. CONTRACTOR SHALL EXTEND AND MODIFY THE EXISTING MAU POWER WIRING AND CONDUIT AS REQUIRED TO POWER THE NEW MAU.
4. PROVIDE FVNR COMBINATION STARTER IN NEMA 12 ENCLOSURE FOR EF-06. STARTER SHALL HAVE AN H-O-A SELECTOR SWITCH, GREEN RUN LIGHT, RED FAIL LIGHT, AND ETM. PROVIDE AN EXTRA CAPACITY CONTROL POWER TRANSFORMER TO POWER ASSOCIATED DAMPERS. WITH THE H-O-A IN THE HAND POSITION, THE FAN SHALL RUN AND THE ASSOCIATED DAMPERS SHALL OPEN BYPASSING ALL CONTROLS UNLESS NOTED OTHERWISE. WITH H-O-A IN THE OFF POSITION, THE FAN SHALL BE INOPERABLE. WITH H-O-A IN THE AUTO POSITION, THE FAN SHALL BE CONTROLLED THROUGH THE DDC SYSTEM. PROVIDE 3~#12 AND #12 GRD IN 3/4" CONDUIT FROM EF-08 TO PANEL J. PROVIDE AUXILIARY RUN AND FAIL CONTACT FOR STATUS INDICATION AT THE DDC SYSTEM.
5. PROVIDE A 20 AMP THREE POLE CIRCUIT BREAKER IN THIS PANEL FOR EF-06. EXISTING PANEL IS MODEL F-1 AS MANUFACTURED BY SIEMENS.
6. PROVIDE A 20 AMP SINGLE POLE CIRCUIT BREAKER IN THIS PANEL FOR EF-08. EXISTING PANEL IS MODEL F-1 AS MANUFACTURED BY SIEMENS.
7. PROVIDE A 20 AMP SINGLE POLE CIRCUIT BREAKER IN THIS PANEL FOR EF-07. EXISTING PANEL IS MODEL F-1 AS MANUFACTURED BY SIEMENS.
8. PROVIDE FIRE DEPARTMENT KNOX BOX IN THE EXTERIOR WALL OF THE BUILDING. KNOX BOX SHALL BE SIZED TO HOLD 10 KEYS AND SHALL BE EQUIPPED WITH A TAMPER SWITCH. PROVIDE PER MADISON FIRE DEPARTMENT (MFD) REQUIREMENTS. COORDINATE INSTALLATION AND ORDERING WITH MFD.
9. FIRE ALARM SYSTEM FLOW SWITCH AND TAMPER SWITCHES SHALL BE MONITORED BY THE FIRE ALARM CONTROL PANEL. PROVIDE REQUIRED ADDRESSABLE CONTROL MODULES AND SUPERVISORY RELAYS TO MONITOR EACH DEVICE. PROVIDE WIRE AND CONDUIT AS REQUIRED TO MONITOR SIGNALS AT FACP.
10. PROVIDE 2~#14 CONDUCTORS IN 3/4" CONDUIT FROM SPRINKLER SYSTEM FLOW SWITCH TO THE ALARM BELL. BELL SHALL SOUND WHEN FLOW SWITCH IS ACTIVATED. ALARM BELL SHALL BE POWERED THROUGH FACP.
11. EXTERIOR HORN/STROBE DEVICE LOCATED ABOVE FIRE DEPARTMENT CONNECTION SHALL BE POWERED THROUGH FACP SUCH THAT THIS DEVICE IS ONLY ACTIVATED WHEN THE FIRE PROTECTION SYSTEM FLOW SWITCH IS ACTIVATED.
12. PROVIDE HONEYWELL WEBAXS REMOTE INPUT/OUTPUT MODULE ABOVE THIS DOOR FOR ACCESS CONTROL INPUT/OUTPUTS OF THIS DOOR AND DOORS 113a AND 113b. PROVIDE WIRE AND CONDUIT AS REQUIRED.
13. PROVIDE HONEYWELL WEBAXS REMOTE INPUT/OUTPUT MODULE ABOVE THIS DOOR FOR ACCESS CONTROL INPUT/OUTPUTS OF DOOR 115a. PROVIDE WIRE AND CONDUIT AS REQUIRED.
14. DOOR SECURITY DEVICES SHALL BE CONTROLLED FROM THE REMOTE READER MODULE PROVIDED ABOVE DOOR 101a. PROVIDE WIRE AND CONDUIT AS REQUIRED.
15. PROVIDE 2~#14 CONDUCTORS IN 3/4" CONDUIT FROM KNOX BOX TAMPER SWITCH TO SECURITY CONTROLLER. REFER TO SHEET E1.3 FOR PANEL LOCATION.
16. PROVIDE ONE COMMON 20 AMP SINGLE POLE CIRCUIT BREAKER IN PANEL K TO POWER ALL THREE ROOF TOP RECEPTACLES.



FIRST FLOOR PLAN

0 4' 8' 16' 32'



FIRST FLOOR POWER AND SYSTEMS PLAN

FLEET SERVICES BUILDING

MECHANICAL, FIRE PROTECTION, PLUMBING, AND BUILDING SECURITY MODIFICATIONS

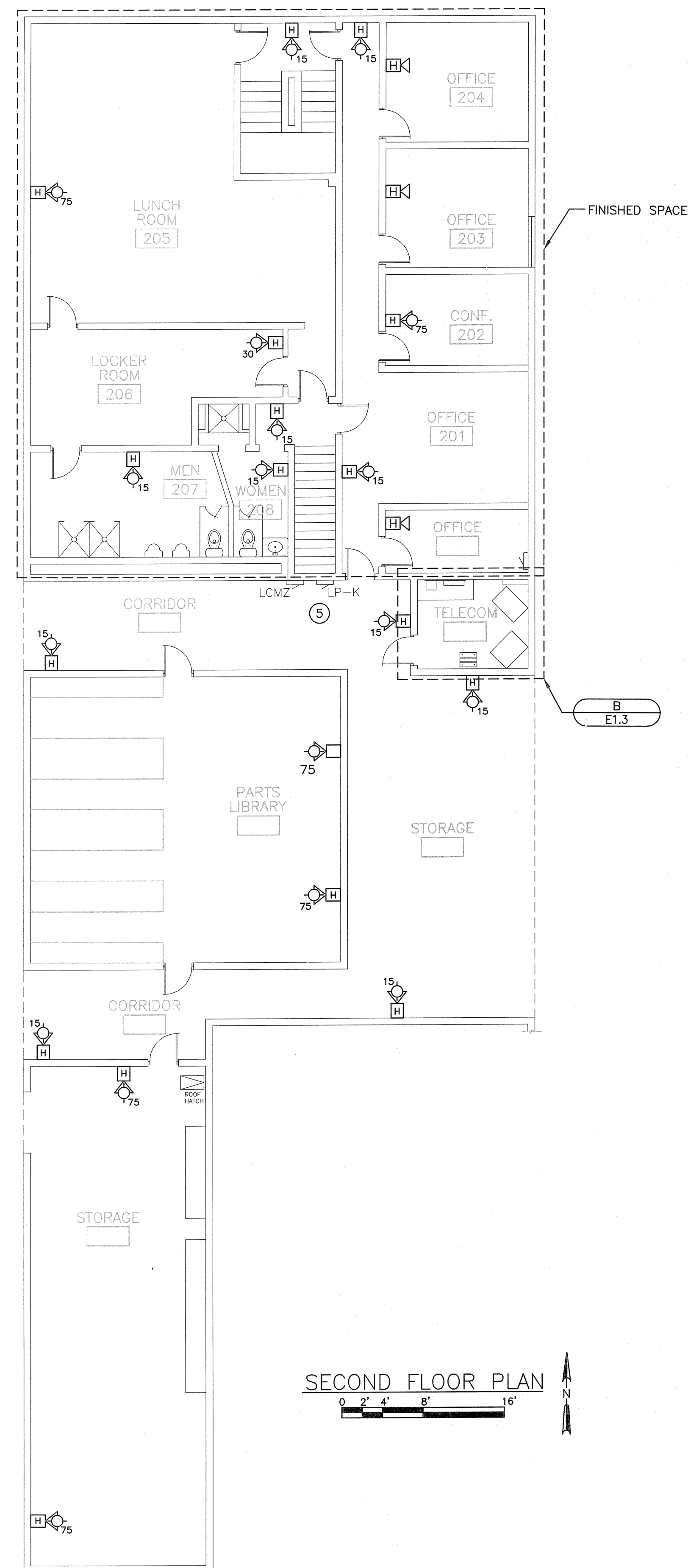
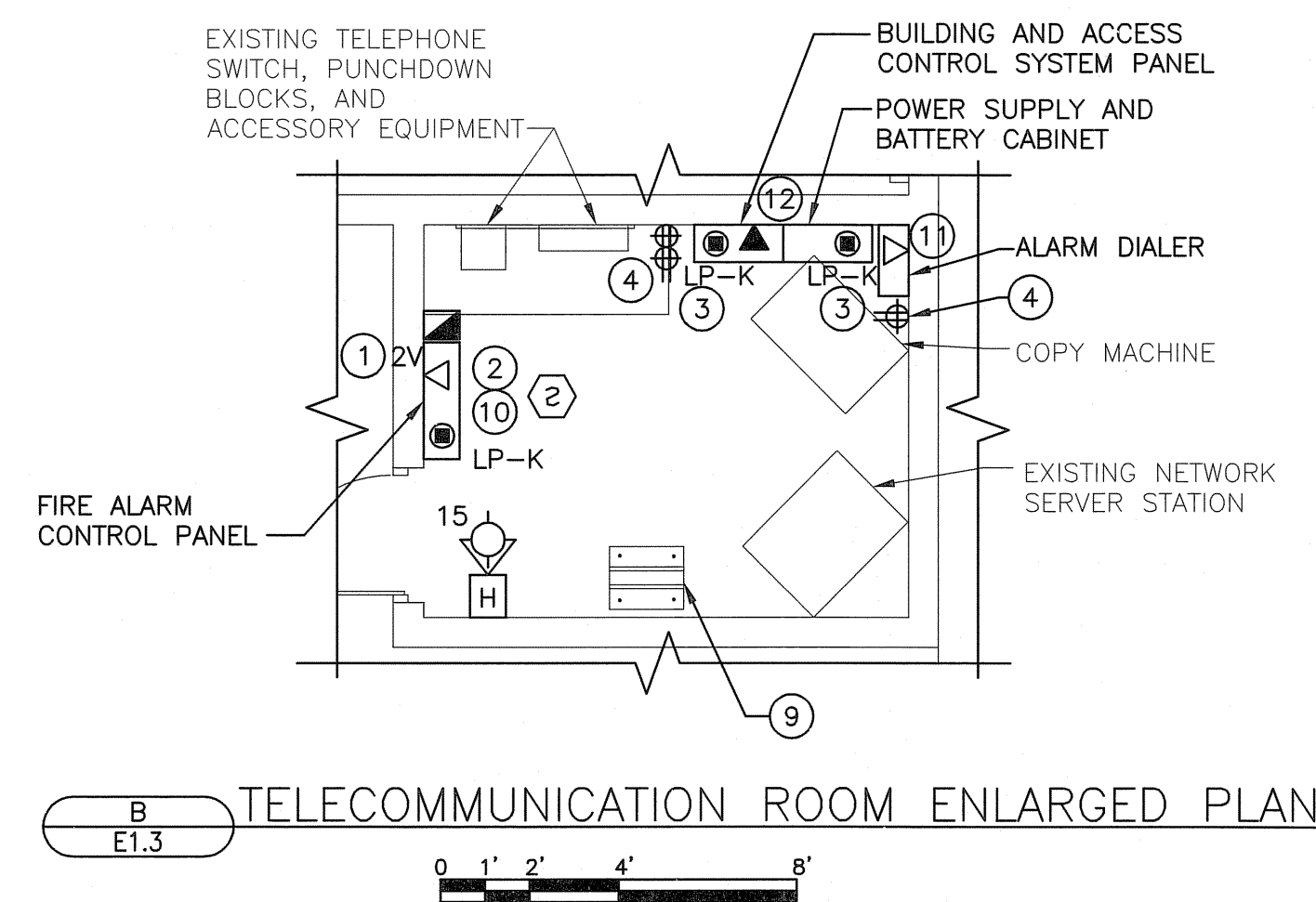
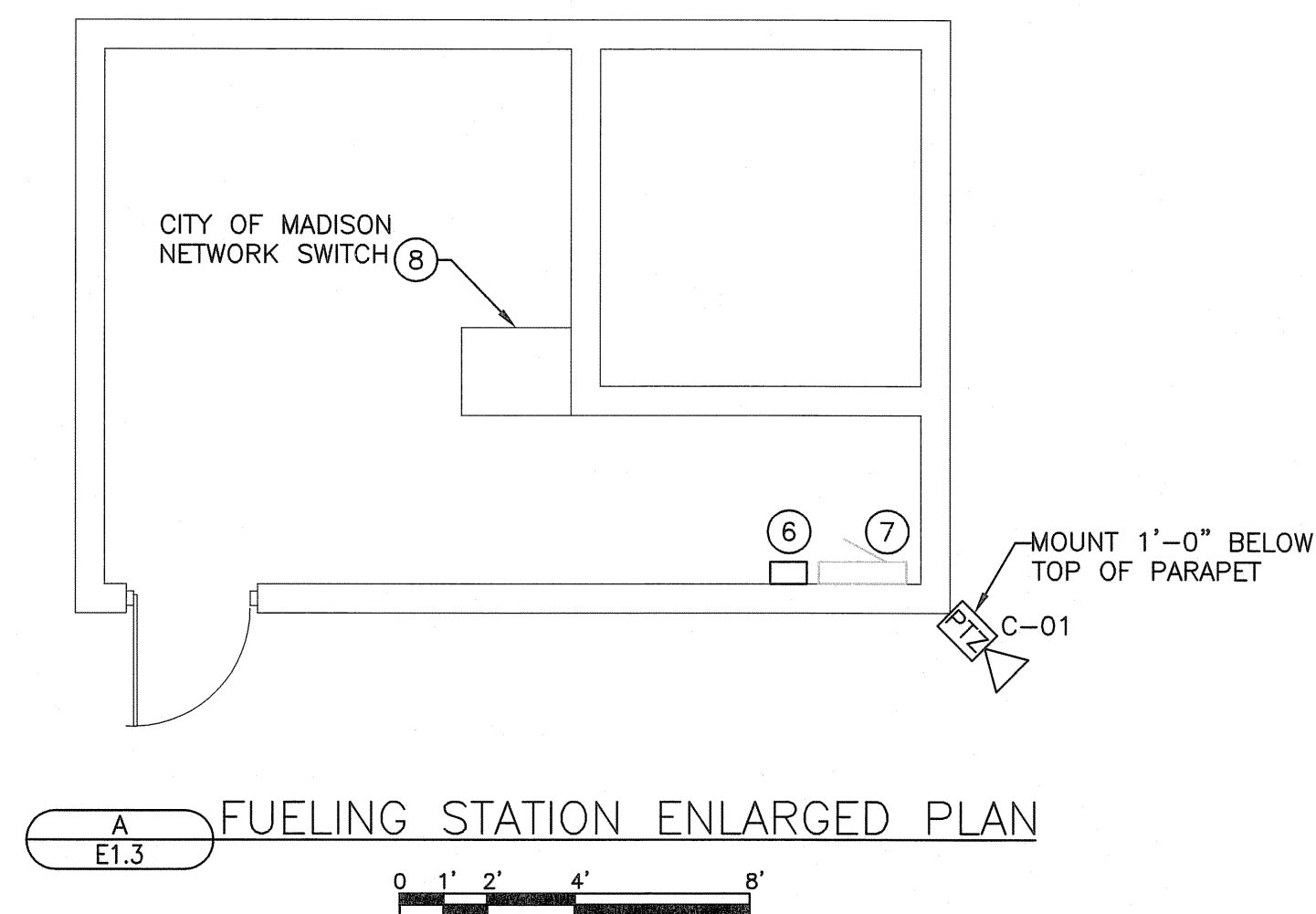
CITY OF MADISON

COUNTY OF DANE, WISCONSIN



SHEET
E1.2

JOB NO. 1-020-033



- GENERAL NOTES:**
1. ALL ACCESS CONTROL SYSTEM COMPONENTS SHALL BE POWERED THROUGH AND CONTROLLED FROM THE ACCESS CONTROL SYSTEM CONTROL PANEL.
 2. REFER TO SHEET E5.1 FOR TYPICAL DOOR ACCESS CONTROL WIRING.
 3. REFER TO SHEET D1.1 FOR ELECTRICAL DEMOLITION REQUIRED.
 4. ELECTRICAL DEVICES LOCATED ON EXISTING MASONRY WALLS IN FINISHED SPACES SHALL BE FED FROM ABOVE THE CEILING AS SHOWN IN DETAIL D/E5.1 USING SURFACE MOUNTED RACEWAY. ELECTRICAL DEVICES LOCATED ON EXISTING GYPSUM BOARD WALLS SHALL BE RECESSED IN THE EXISTING WALL AND FED FROM ABOVE THE CEILING USING ENT TYPE RACEWAY. REFER TO DETAIL E/E5.1 FOR RECESSED DEVICE MOUNTING.
 5. PENETRATIONS THROUGH EXISTING GYPSUM BOARD WALLS SHALL BE SEALED TO MATCH THE FIRE RATING OF THE EXISTING WALLS.
 6. CONTRACTOR SHALL PROVIDE NAC PANELS AS REQUIRED TO POWER FAS ANNUNCIATION DEVICES. CONTRACTOR SHALL PROVIDE A DEDICATED 20 AMP, 120V CIRCUIT BREAKER, WIRE, AND CONDUIT TO POWER EACH NAC PANEL. PROVIDE A SMOKE DETECTOR OVER ALL NAC LOCATIONS. COORDINATE NAC PANEL LOCATIONS WITH OWNER PRIOR TO SUBMITTING VOLTAGE DROP CALCULATIONS.

- KEY NOTES:**
1. PROVIDE TWO DEDICATED PHONE LINES TO THE FACP FOR REMOTE MONITORING. COORDINATE ACTIVATION OF NEW PHONE LINES WITH THE OWNER.
 2. FIRE ALARM CONTROL PANEL SHALL BE FED FROM A DEDICATED 20 AMP SINGLE POLE CIRCUIT BREAKER RED IN COLOR. CIRCUIT BREAKER SHALL BE PERMANENTLY LABELED FACP. PROVIDE A NEW CIRCUIT BREAKER IN EXISTING PANEL LP-K.
 3. PROVIDE TWO DEDICATED 20 AMP SINGLE POLE CIRCUIT BREAKER IN EXISTING PANEL LP-K TO POWER THE BUILDING MANAGEMENT AND ACCESS CONTROL SYSTEM.
 4. RECEPTACLES SHALL BE ORANGE IN COLOR AND HAVE A GREEN ISOLATED GROUND TRIANGLE SYMBOL. PROVIDE A DEDICATED 20 AMP SINGLE POLE CIRCUIT BREAKER WITH ISOLATED GROUND IN EXISTING PANEL LP-K TO POWER BOTH NEW RECEPTACLES.
 5. EXISTING PANEL LP-K IS A 120/208 VOLT, 3 PHASE, 4 WIRE PANEL, MANUFACTURED BY SIEMENS, SERIAL NO. 86-48310, CATALOG NO. PIC42ML250CTS. PROVIDE ONE 20 AMP SINGLE POLE CIRCUIT BREAKER IN THIS PANEL FOR ROOF TOP RECEPTACLE.
 6. PROVIDE A NEMA 1 JUNCTION BOX SIZED APPROPRIATELY TO HOUSE VIDEO SURVEILLANCE CAMERA POWER SUPPLY. PROVIDE 2~#12, #12 GRD IN 3/4" FROM POWER SUPPLY TO VIDEO CAMERA. JUNCTION BOX SHALL BE LOCATED 6'-0" AFF.
 7. VIDEO SURVEILLANCE CAMERA POWER SUPPLY SHALL BE POWERED BY THE SPARE 20 AMP SINGLE POLE CIRCUIT BREAKER ON CIRCUIT 10 IN THIS PANEL.
 8. REFER TO VIDEO SURVEILLANCE SYSTEM ONE-LINE DIAGRAM, DETAIL B/E5.1 FOR SYSTEM COMPONENTS TO BE INSTALLED IN THIS CABINET. ALL SYSTEM WIRING FROM THIS CABINET TO THE CAMERA SHALL BE INSTALLED IN CONDUIT.
 9. REFER TO VIDEO SURVEILLANCE SYSTEM ONE-LINE DIAGRAM, DETAIL B/E5.1 FOR SYSTEM COMPONENTS TO BE INSTALLED IN THIS RACK.
 10. PROVIDE 4~#14 IN 3/4" FROM FACP TO BUILDING MANAGEMENT SYSTEM PANEL FOR MONITORING FAS ALARM AND TROUBLE CONDITIONS.
 11. PROVIDE ONE DEDICATED PHONE LINE TO THE ACCESS CONTROL SYSTEM ALARM DIALER. COORDINATE ACTIVATION OF NEW PHONE LINE WITH THE OWNER.
 12. DATA CONNECTION SHALL BE TERMINATED AT THE PATCH PANEL IN THIS ROOM.

SECOND FLOOR SYSTEMS PLAN AND ENLARGED DETAIL PLANS

FLEET SERVICES BUILDING

MECHANICAL, FIRE PROTECTION, PLUMBING, AND BUILDING SECURITY MODIFICATIONS

CITY OF MADISON

COUNTY OF DANE, WISCONSIN

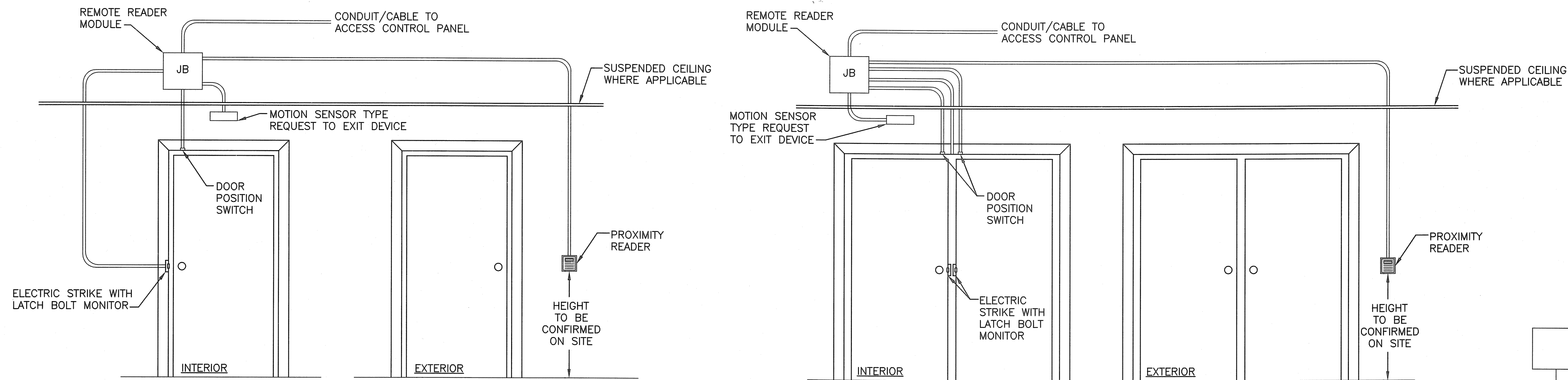
STRAND ASSOCIATES, INC.®

ENGINEERS

SHEET

E1.3

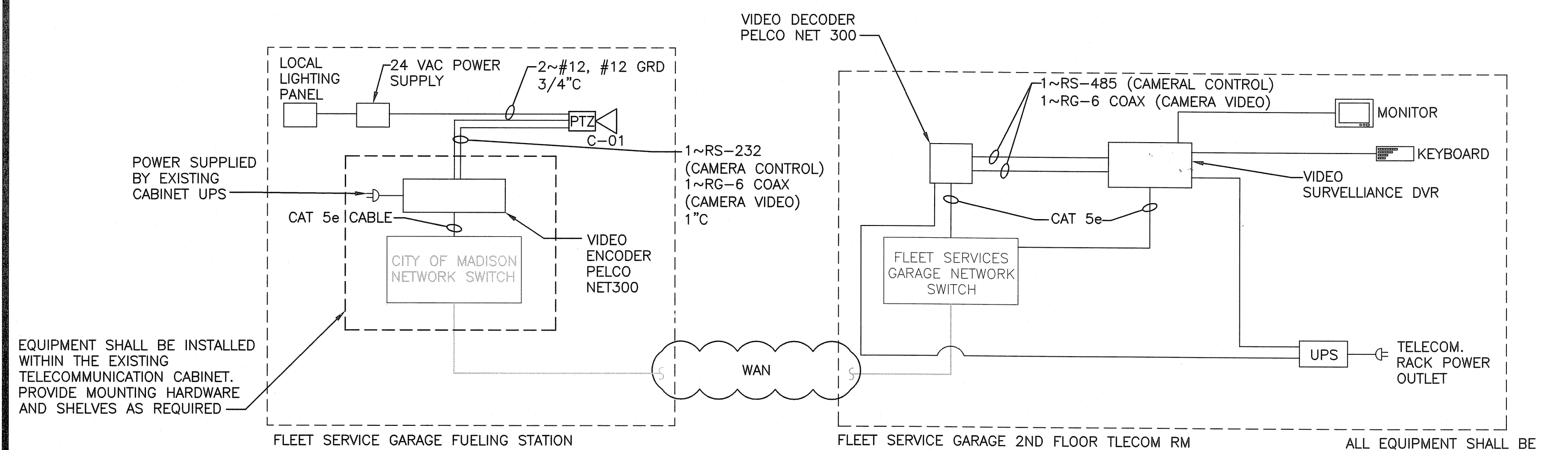
JOB NO. 1-020-033



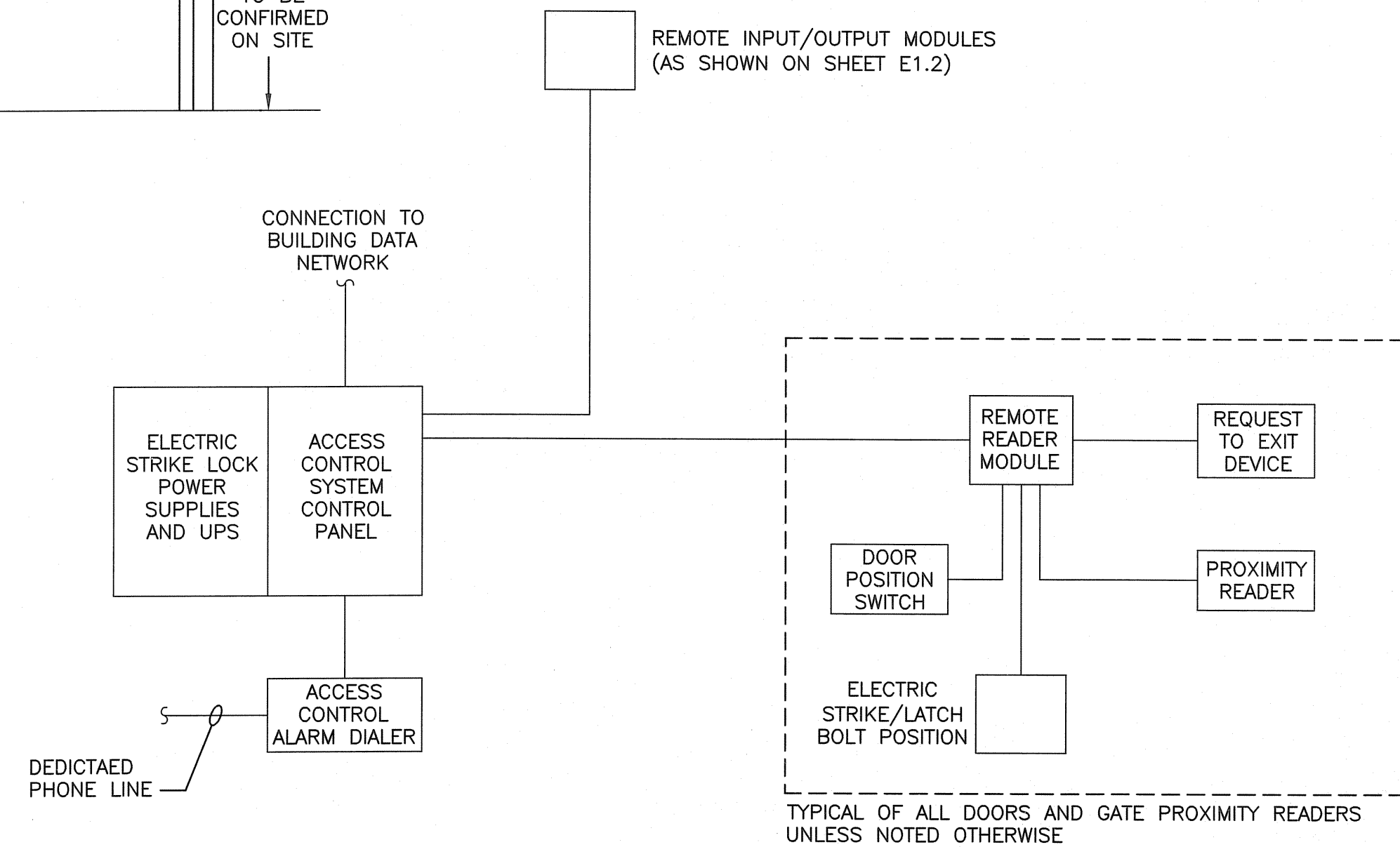
NOTES:

1. ALL CONDUITS SHALL BE RECESSED IN WALLS IN FINISHED AREAS UNLESS NOTED OTHERWISE.

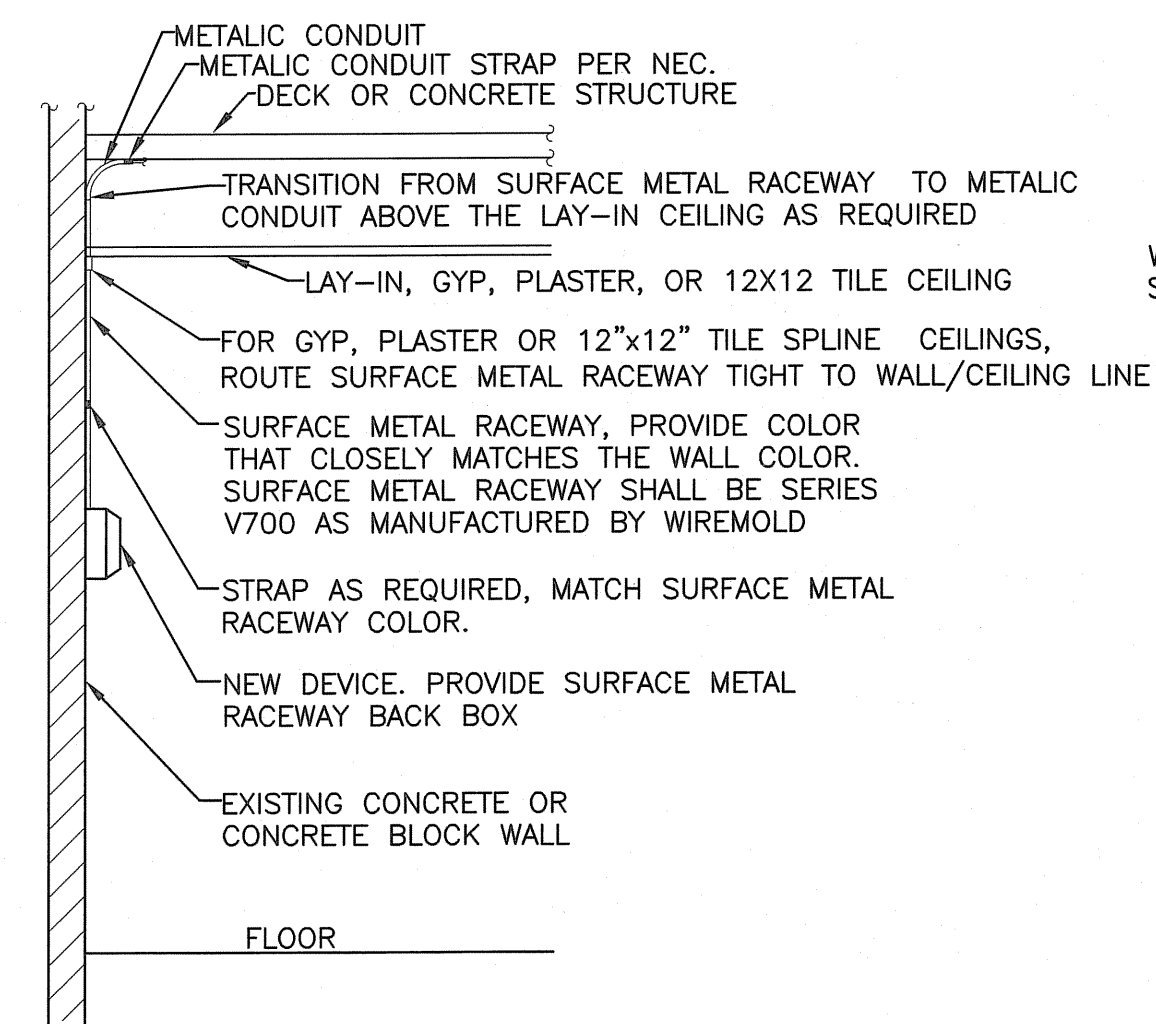
A
E5.1 SINGLE AND DOUBLE DOOR SECURITY DEVICE MOUNTING DETAIL
NO SCALE



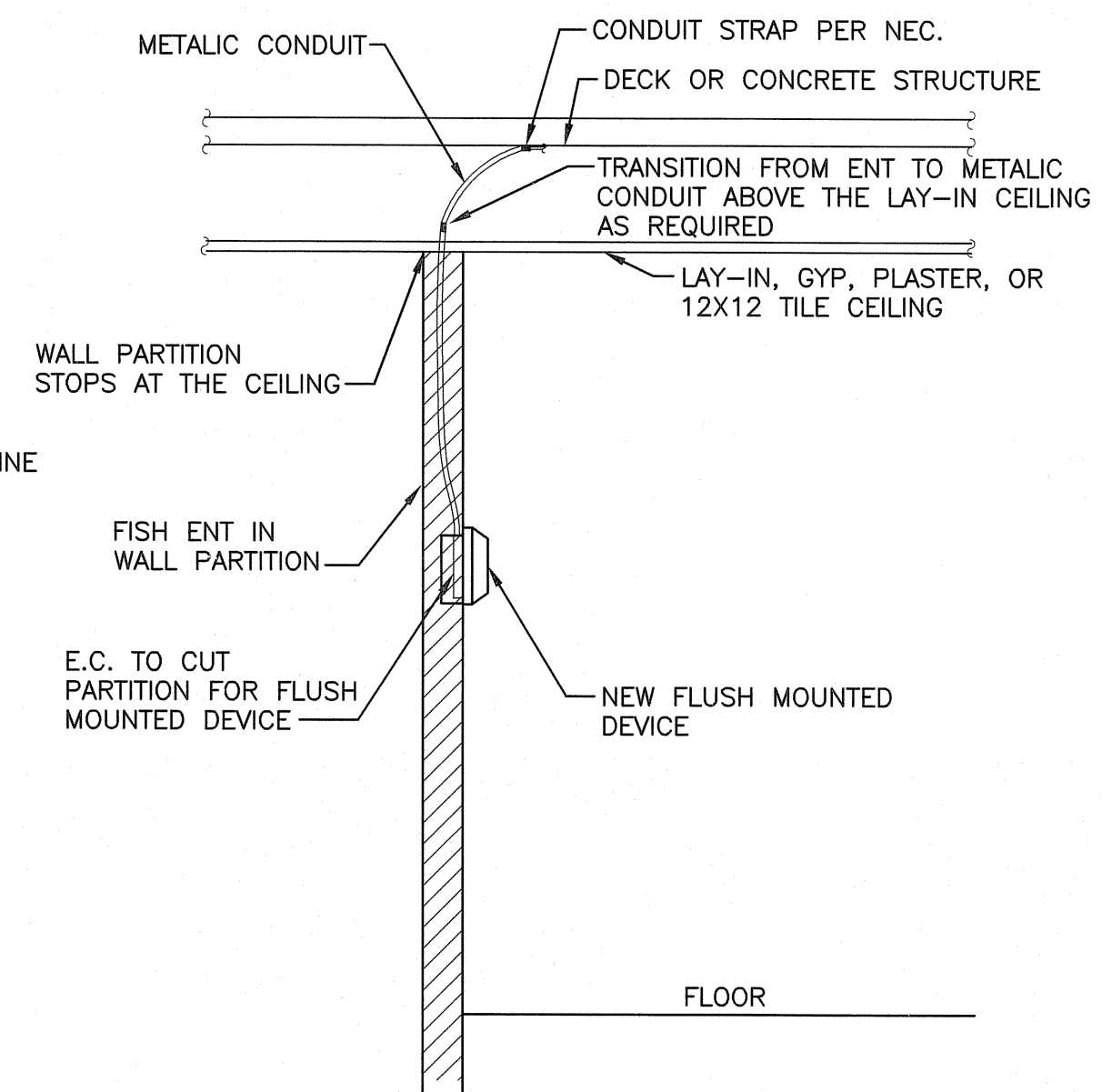
B
E5.1 VIDEO SURVEILLANCE SYSTEM ONE-LINE DIAGRAM
NO SCALE



C
E5.1 ACCESS CONTROL SYSTEM ONE-LINE DIAGRAM
NO SCALE



D
E5.1 SURFACE MOUNTED DEVICE ON EXISTING CMU WALLS
NO SCALE



E
E5.1 RECESS MOUNTED DEVICE IN EXISTING PARTITION WALLS
NO SCALE

ELECTRICAL DETAILS - 1

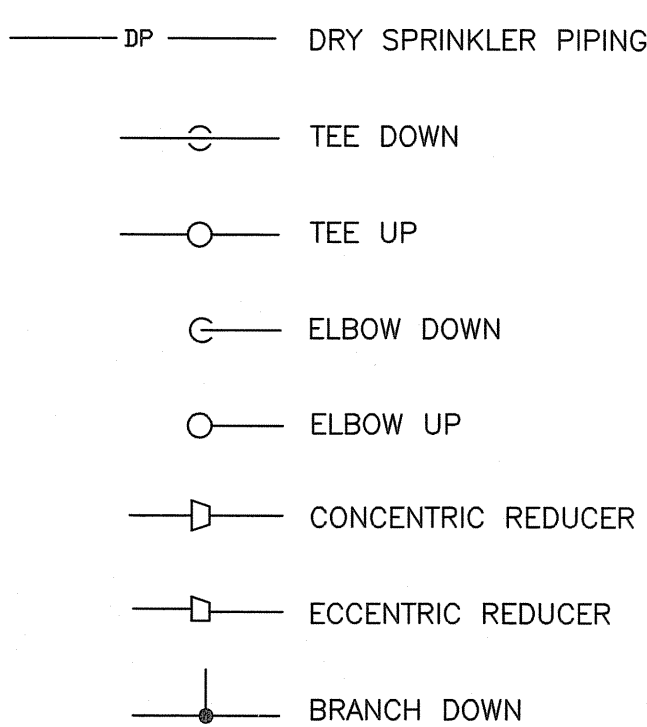
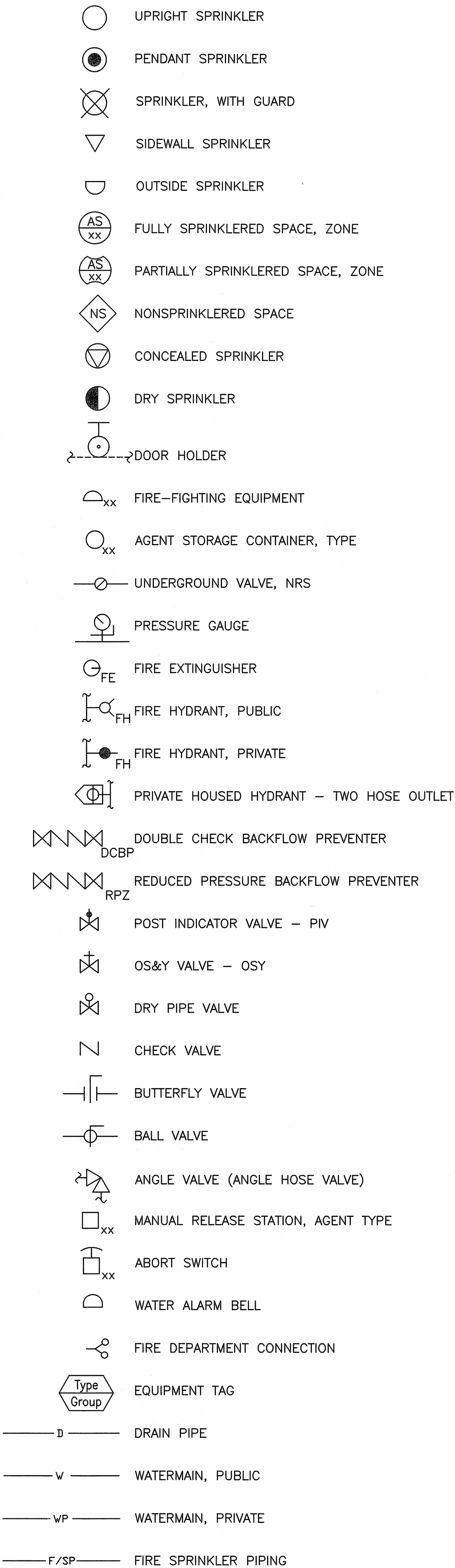
FLEET SERVICES BUILDING
MECHANICAL, FIRE PROTECTION, PLUMBING, AND BUILDING SECURITY MODIFICATIONS
CITY OF MADISON
COUNTY OF DANE, WISCONSIN

STRAND
ASSOCIATES, INC.
ENGINEERS

SHEET
E5.1

JOB NO. 1-020-033

FIRE PROTECTION SYMBOLS



DATE TESTED: 6/19/07

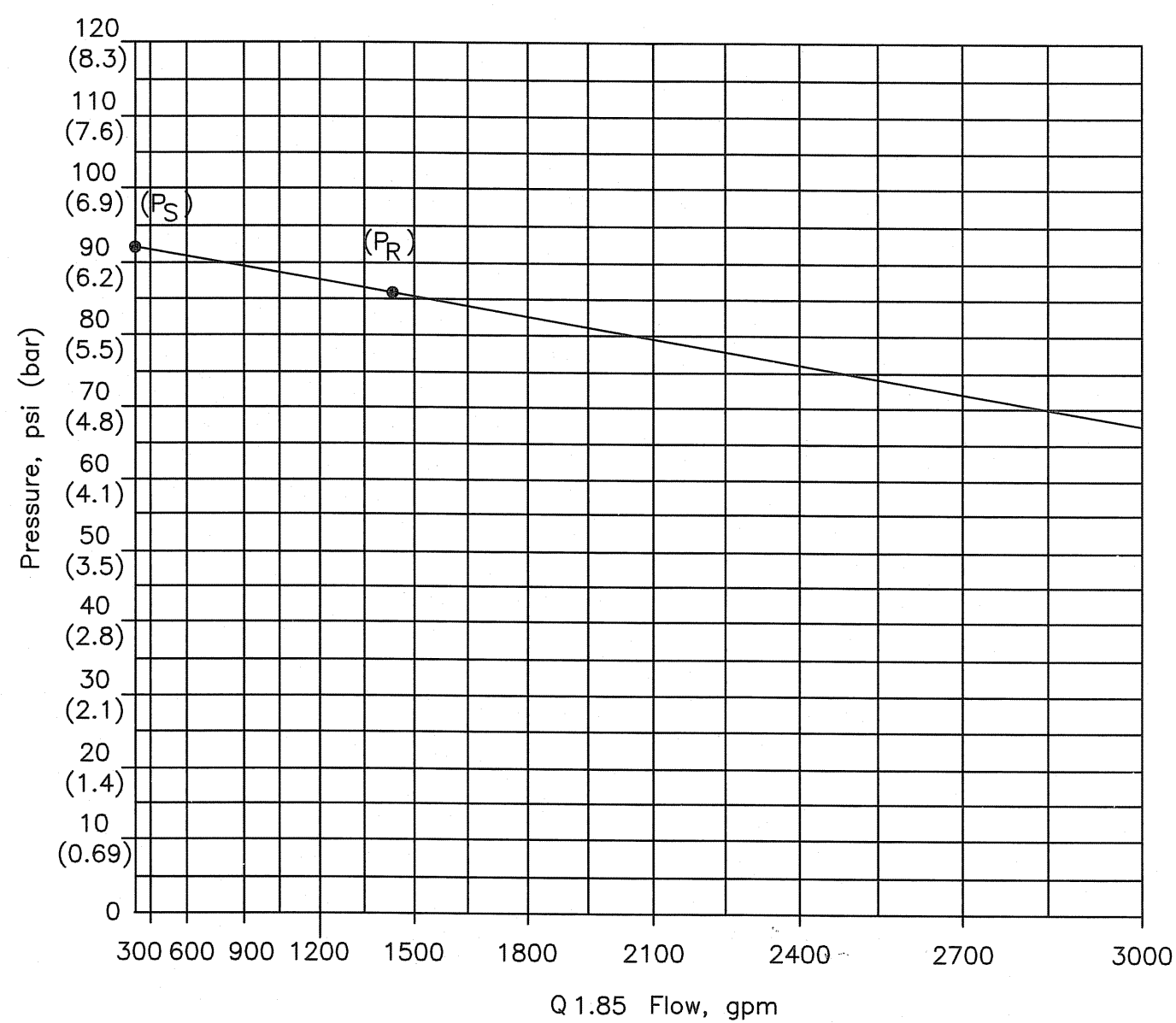
MODEL ELEVATION (CITY OF MADISON DATUM): 3.9

FINISHED FLOOR ELEVATION:

STATIC PRESSURE (P_S): 92

RESIDUAL PRESSURE (P_R): 86

FLOW: 1455 GPM



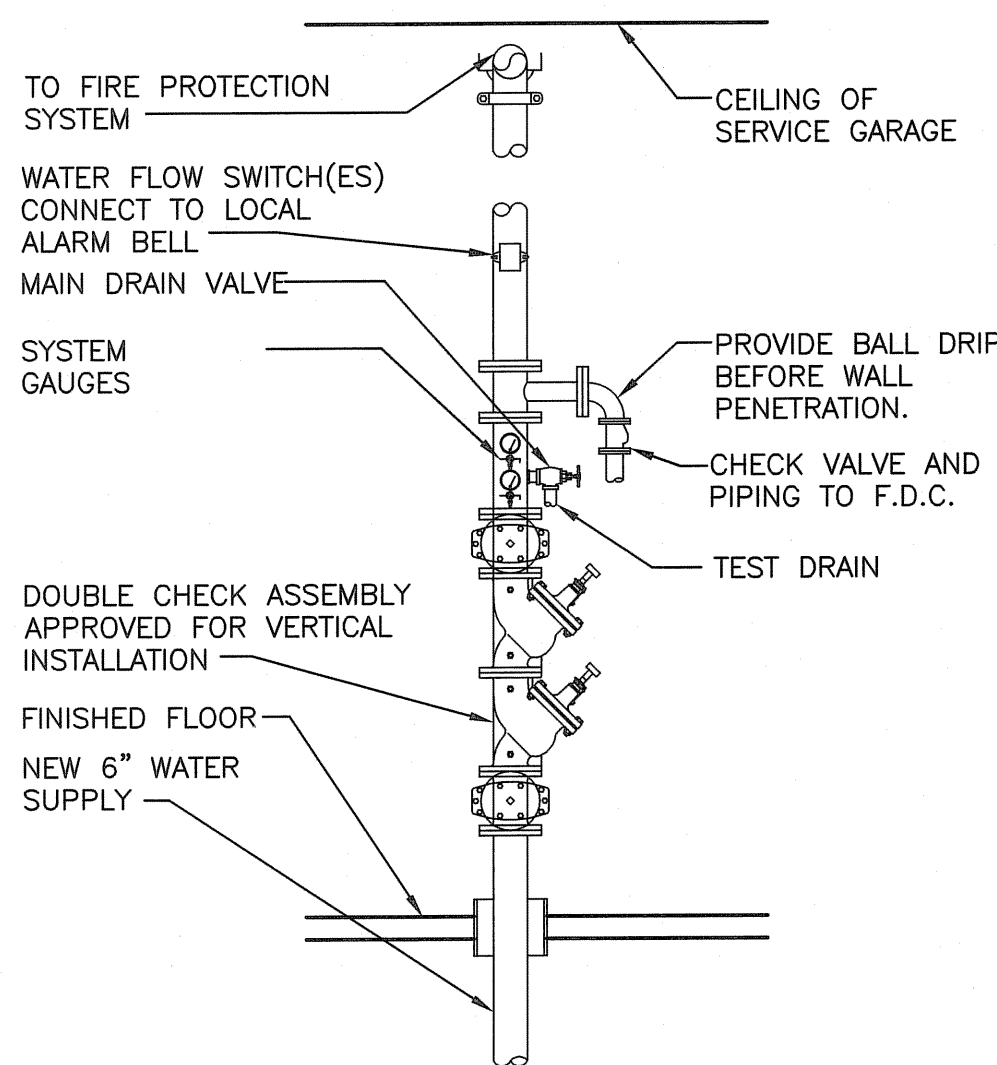
A HYDRANT H014 - FLOW AND PRESSURE RECORD
FP0.1 NO SCALE

FIRE PROTECTION ABBREVIATIONS

AHJ-AUTHORITY HAVING JURISDICTION
CA-CLEAN AGENT
CO₂-CARBON DIOXIDE
CO-CARBON MONOXIDE
DISCH-DISCHARGE
DP-DRY PENDANT SPRINKLERS
DPV-DRY PIPE VALVE
ECH-EXTENDED COVERAGE HEAD
ESFR-EARLY SUPPRESSION FAST RESPONSE
FE-FIRE EXTINGUISHER
FH-FIRE HYDRANT
FDV-FIRE DEPARTMENT VALVE
FPTC-FIRE PUMP TEST CONNECTION
FVC-FIRE VALVE CABINET
FO-FOAM
NRS-NON RISING STEM
OS&Y-OUTSIDE SCREW & YOKE
PIV-POST INDICATOR VALVE
PRV-PRESSURE REDUCING VALVE
WC-WET CHEMICAL

FIRE PROTECTION GENERAL NOTES

- COORDINATE WITH OTHER TRADES TO ELIMINATE ANY CONFLICTS BETWEEN PIPING, DUCTWORK, ELECTRICAL WORK, ETC.
- FIRE PROTECTION CONTRACTOR SHALL PROVIDE AN AUTOMATIC SPRINKLER SYSTEM TO PROTECT ALL AREAS OF THE FACILITY.
- ALL WORK SHALL BE STRICTLY COORDINATED AMONG ALL INDIVIDUAL CONTRACTORS BEFORE ANY WORK IS PERFORMED.
- VERIFY ALL CEILING HEIGHTS AT SITE, PRIOR TO INSTALLATION.
- PIPE ROUTING IS SHOWN IN APPROXIMATE LOCATIONS.
- SPRINKLER CONTRACTOR SHALL PERFORM WATER FLOW TEST AT FIRE HYDRANT PRIOR TO FINAL SPRINKLER DESIGN.
- PRESSURE TEST OF THE AUTOMATIC SPRINKLER SYSTEM SHALL BE WITNESSED BY THE FIRE DEPARTMENT AND OWNERS INSURANCE AGENCY UNLESS SPECIFICALLY WAIVED. TWO (2) WEEKS WRITTEN ADVANCE NOTICE OF TEST SHALL BE GIVEN.
- ALL LEAKAGE EVIDENCED BY TESTING SHALL BE REPAIRED BY TIGHTENING OR REPLACING FITTING OR EQUIPMENT ONLY.
- ALL REPAIRS SHALL BE AT THE CONTRACTORS EXPENSE. CAULKING, WRAPPING OR OTHER MEANS OF REPAIR SHALL NOT BE PERMITTED.
- ALL DRAIN LINES INCLUDING THE DRAIN FOR THE AUTOMATIC SPRINKLER SYSTEM INSPECTORS TEST VALVE AND THE AUTOMATIC SPRINKLER SYSTEM MAIN DRAIN SHALL BE GALVANIZED STEEL.
- SEE SPECIFICATION SECTION 15300 FOR ADDITIONAL INFORMATION.
- ALL PIPE PENETRATIONS THROUGH FLOORS OR WALLS SHALL BE SLEEVED AND SEALED TO MAKE WATERTIGHT AND MAINTAIN FIRE RATING.
- SPRINKLERS NEAR HEATERS AND LOCATED WITHIN HEATER ZONES AS DEFINED BY NFPA-13, LATEST EDITION, SHALL BE HIGH TEMPERATURE RATED.
- ALL VALVE SUPERVISORY SWITCHES AND WATER FLOW SWITCHES SHALL BE PROVIDED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.
- THE COMPLETE INSTALLATION AND TESTING OF THE AUTOMATIC SPRINKLER SYSTEM SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF NFPA.
- CONTRACTOR SHALL PROVIDE ACCESSIBILITY TO ALL VALVES AND CONTROL DEVICES. FURNISH ACCESS PANELS WHERE SHOWN OR REQUIRED FOR ACCESS TO ALL CONCEALED VALVES OR OTHER EQUIPMENT FURNISHED UNDER THIS CONTRACT WHERE NO OTHER MEANS IS PROVIDED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL REQUIRED PIPING OFFSETS FOR COMPLETE SYSTEM INSTALLATION.
- DRAWING INTENT IS TO INDICATE GENERAL ARRANGEMENT, DESIGN AND INTENT OF WORK, AND IS PARTIALLY DIAGRAMMATIC. DRAWING SHALL NOT BE SCALED.
- ALL REQUIRED SPRINKLERS MAY NOT BE SHOWN. SPRINKLERS ARE SHOWN FOR BIDDING PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL SPRINKLERS WHERE REQUIRED BY NFPA 13.
- SPRINKLER COVERAGE TO INCLUDE AREAS BELOW ALL OBSTRUCTIONS OVER 4'-0" WIDE (I.E. DUCTWORK, OVERHEAD ROLL-UP DOORS, STAIRS, RAMPS, ETC.)



NOTE: SUPPORT PIPING AS NECESSARY FROM FLOOR OR WALL.

B SPRINKLER RISER
FP0.1 NO SCALE

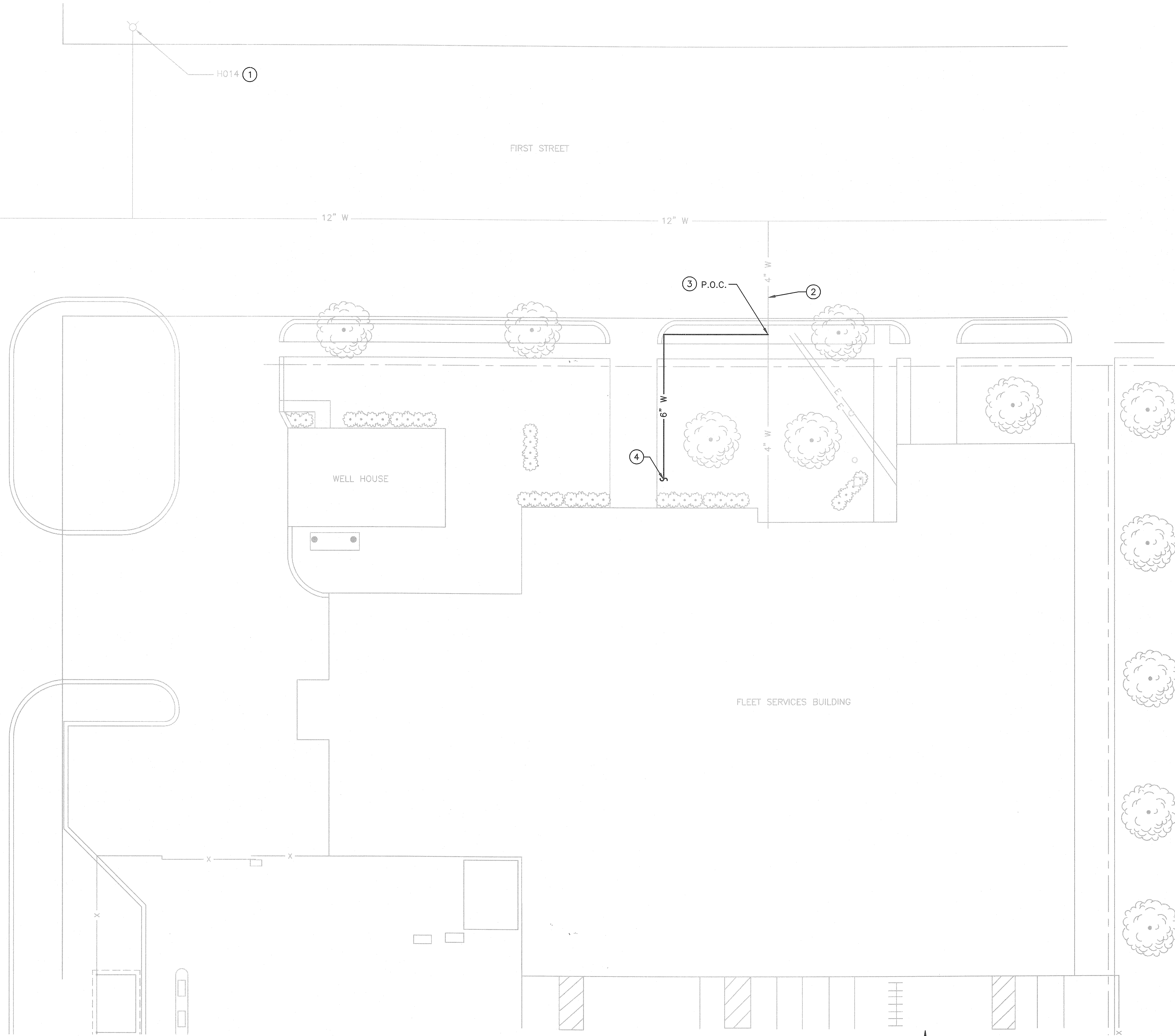
FIRE PROTECTION SYMBOLS, DETAILS AND ABBREVIATIONS

FLEET SERVICES BUILDING
MECHANICAL, FIRE PROTECTION, PLUMBING, AND BUILDING SECURITY MODIFICATIONS
CITY OF MADISON
COUNTY OF DANE, WISCONSIN



SHEET
FP0.1
JOB NO. 1-020-033

JOHNSON STREET



SITE FIRE PROTECTION PLAN

0 5' 10' 20' 40'

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL PIPE LENGTHS.
2. SEE SHEET FP0.1 FOR GENERAL NOTES.

KEY NOTES:

- ① LOCATION OF HYDRANT FLOW AND PRESSURE TEST. SEE

A
FP0.1

 FOR RESULTS.
- ② EXISTING 4" UNDERGROUND WATER SERVICE TO BUILDING. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
- ③ PROVIDE 4" X 4" X 6" TEE. CONNECT TO EXISTING 4" WATER SERVICE AS CLOSE TO THE ROAD AS POSSIBLE. CONTRACTOR SHALL AVOID DAMAGE TO EXISTING ROADWAY, CURB AND GUTTER.
- ④ SEE SHEET FP1.2 FOR CONTINUATION.

FIRE PROTECTION SITE PLAN

FLEET SERVICES BUILDING

MECHANICAL, FIRE PROTECTION, PLUMBING, AND BUILDING SECURITY MODIFICATIONS

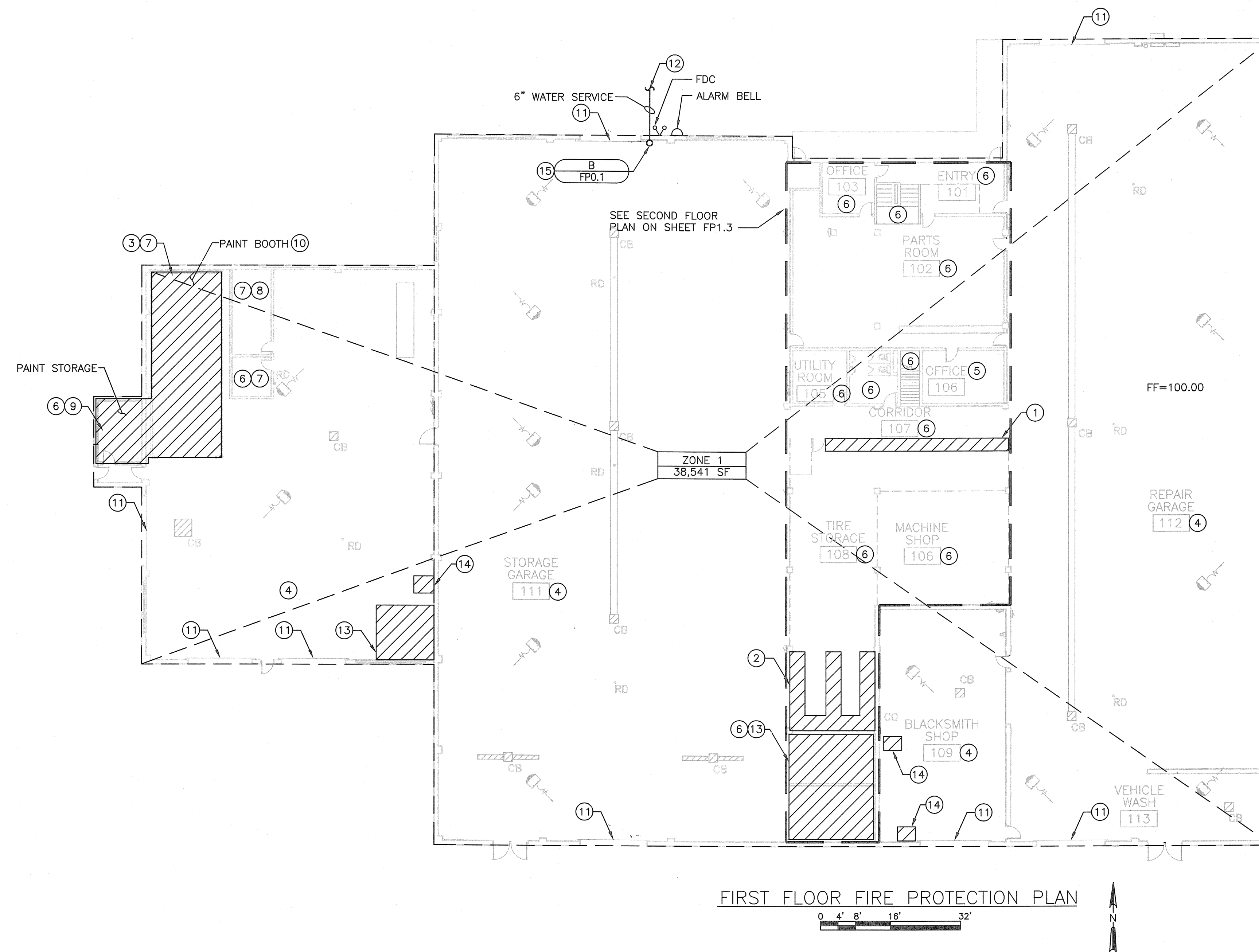
CITY OF MADISON

COUNTY OF DANE, WISCONSIN



SHEET
FP1.1

JOB NO. 1-020-033



GENERAL NOTES:

- SEE SHEET FP0.1 FOR GENERAL NOTES.

KEY NOTES:

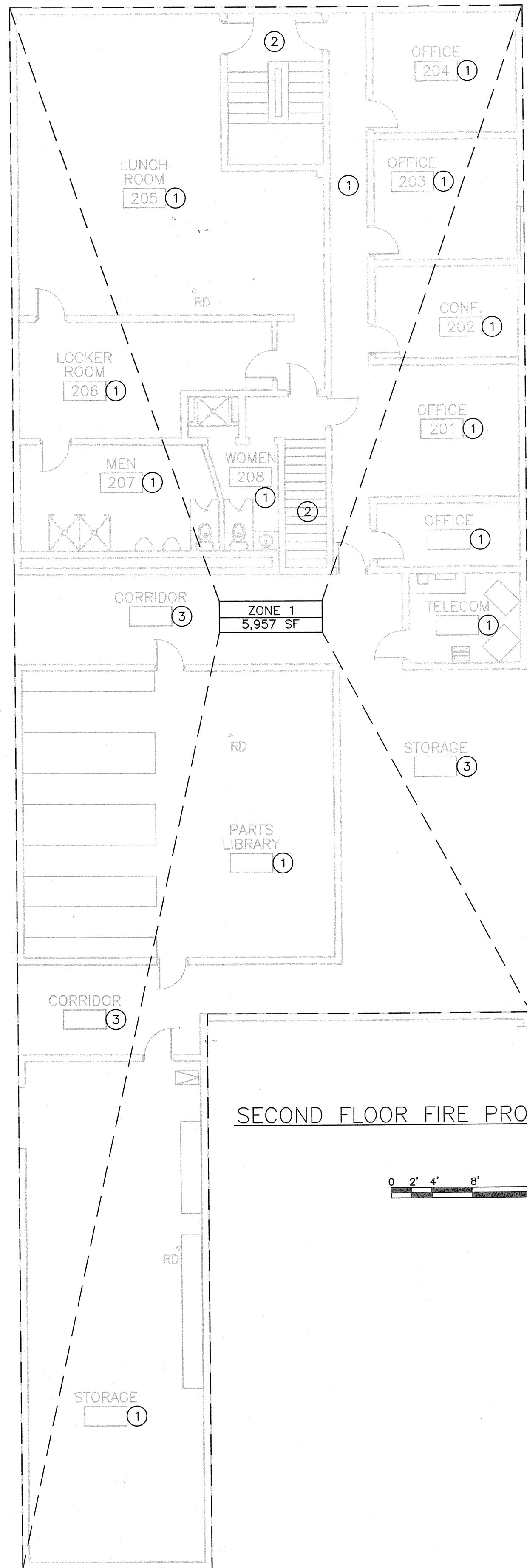
- TIRE STORAGE. RACKS ARE ONE TIRE DEEP AND TWO TIRES TALL. TIRES STORED ON TREAD. PROVIDE SPRINKLER COVERAGE ACCORDING TO NFPA 13 SECTION 12.4.
- TIRE STORAGE. RACKS ARE ONE TIRE DEEP AND THREE TIRES TALL. TIRES STORED ON TREAD. PROVIDE SPRINKLER COVERAGE ACCORDING TO NFPA 13 SECTION 12.4.
- LOCATION OF EXISTING FIRE PROTECTION SYSTEM.
- CEILING IS OPEN TO JOISTS AND METAL DECK.
- CEILING IS ACOUSTIC TILE. CENTER SPRINKLER HEADS IN TILE.
- CEILING IS PLASTER OR DRYWALL. FIRE PROTECTION PIPING SHALL BE EXPOSED AND ROUTED AS TIGHT TO CEILING AS POSSIBLE. FIRE PROTECTION CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SYSTEM DESIGN.
- CEILING OF THIS SPACE IS NOT EQUAL TO ROOF HEIGHT. OPEN TO JOISTS AND METAL DECK ROOF ABOVE THIS SPACE. PROVIDE SPRINKLERS IN THIS SPACE AS WELL AS ABOVE THIS SPACE.
- CEILING IS OPEN WOOD JOISTS.
- THREE EXISTING SPRINKLER HEADS IN THIS ROOM.
- EIGHT EXISTING SPRINKLER HEADS IN THIS ROOM.
- LOCATION OF OVERHEAD ROLL-UP DOOR.
- SEE SHEET FP1.1 FOR CONTINUATION.
- BULK STORAGE OF MOTOR OIL. PROVIDE SPRINKLER PROTECTION ACCORDING TO NFPA 13 SECTION 13.2.
- COMPRESSED GAS CYLINDER STORAGE. PROVIDE SPRINKLER PROTECTION ACCORDING TO NFPA 13 SECTION 13.11.
- COORDINATE WITH PLUMBING CONTRACTOR FOR AVAILABLE WALL SPACE IN THIS AREA.

FIRST FLOOR FIRE PROTECTION PLAN FLEET SERVICES BUILDING MECHANICAL, FIRE PROTECTION, PLUMBING, AND BUILDING SECURITY MODIFICATIONS CITY OF MADISON COUNTY OF DANE, WISCONSIN



SHEET
FP1.2

JOB NO. 1-020-033



SECOND FLOOR FIRE PROTECTION PLAN

GENERAL NOTES:

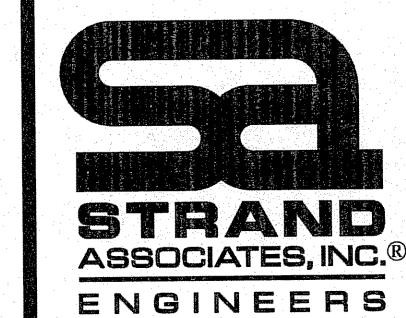
- SEE SHEET FP0.1 FOR GENERAL NOTES.

KEY NOTES:

- CEILING IS ACOUSTIC TILE. CENTER SPRINKLER HEADS IN TILE.
- CEILING IS PLASTER OR DRYWALL. FIRE PROTECTION PIPING SHALL BE EXPOSED AND ROUTED AS TIGHT TO CEILING AS POSSIBLE. FIRE PROTECTION CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO SYSTEM DESIGN.
- CEILING IS OPEN TO JOISTS AND METAL DECK.

SECOND FLOOR FIRE PROTECTION PLAN

FLEET SERVICES BUILDING
MECHANICAL, FIRE PROTECTION, PLUMBING, AND BUILDING SECURITY MODIFICATIONS
CITY OF MADISON
COUNTY OF DANE, WISCONSIN



SHEET
FP1.3

JOB NO. 1-020-033

DATE:	NO.	REVISIONS	DATE:
DATE: NOVEMBER, 2007			
DES BY: NLB			
CHK BY: BTM			
RECORD DRAWING			
BY:			
DATE:			
CONTRACTOR:			

2013 - Roof Replacement



City of Madison Fleet Services Roof Replacement

City of Madison Contract # 7027

TS—1.0	Title Sheet
D—1.0	Roof Existing Conditions & Demolition Plan
A—1.0	Roof Plan
A—1.1	Roof Plan, Roofs 1,2,4&7
A—1.2	Roof Details
A—1.3	Taper Roof Plan, New Scupper Locations
A—1.4	Roof Details
A—1.5	Roof Details
A—1.6	Roof Details
P—1.0	Roof Drain & Storm Sewer Lines Locations

City of
Madison

Facilities & Sustainability
Management
210 Martin Luther King
Jr. Blvd Room 115



Designed Prepared For:

City of
Madison
Fleet Services

Design & Project
Engineer

Paul Stauffer
(608) 266-4366
pstauffer@cityofmadison.com

Fleet Services Roof Replacement
200 North First Street
Madison, WI
Contract: 7027 Project: 53W1569

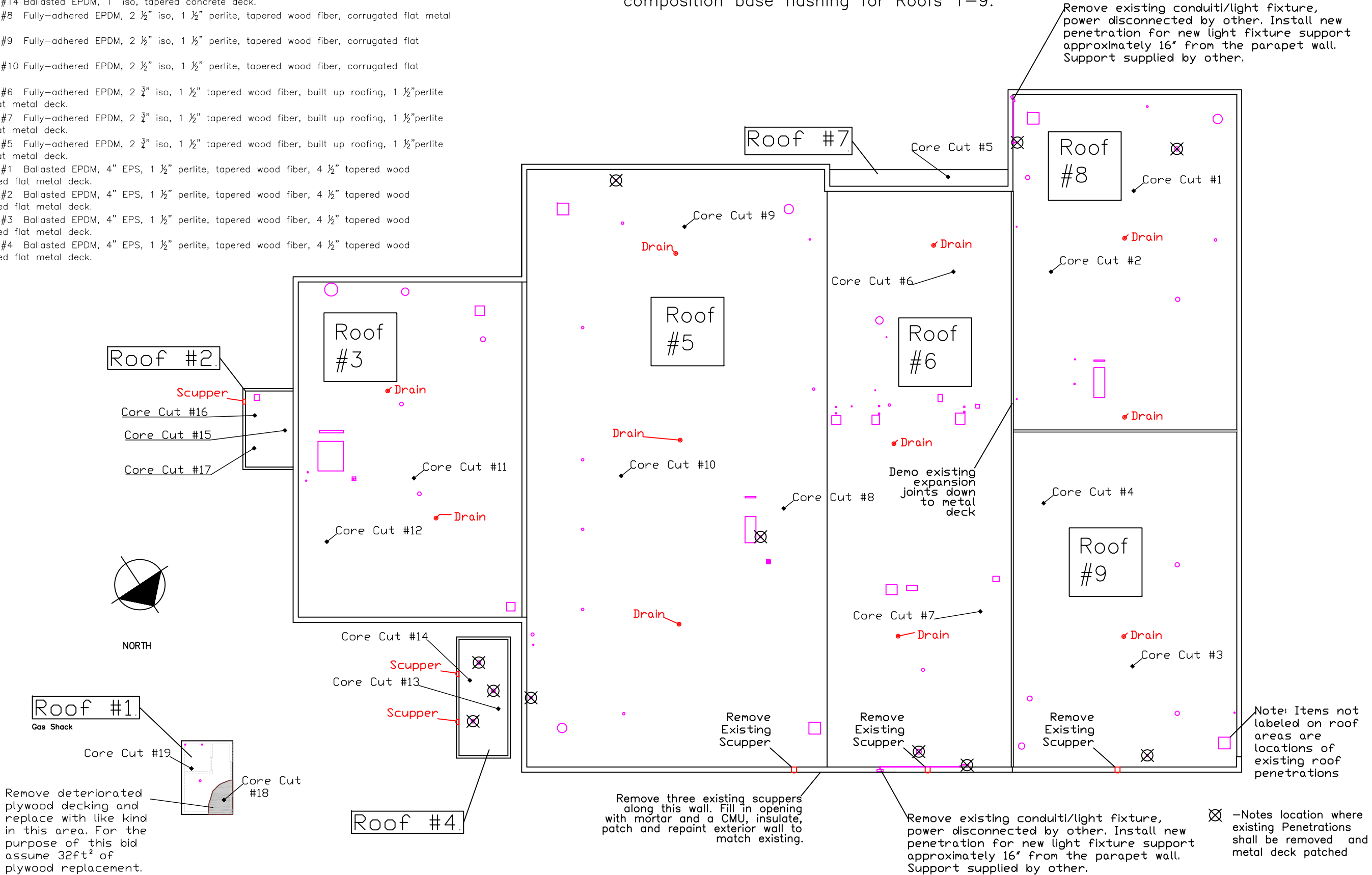
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TS-1.0

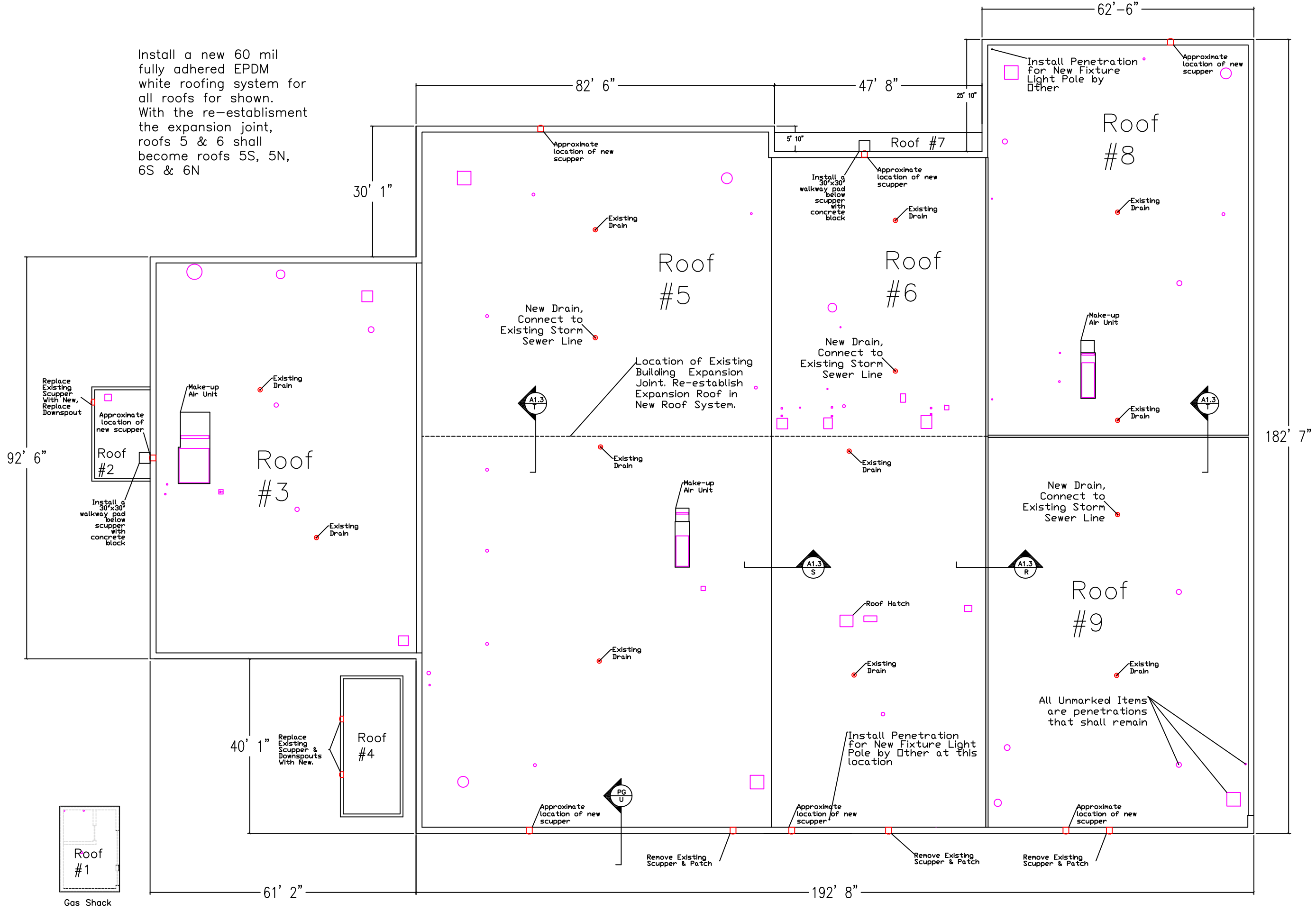
CORE CUT SCHEDULE

- Roof #1 Cut #18 Ballasted EPDM, Protective matting, tapered plywood deck.
Roof #1 Cut #19 Ballasted EPDM, Protective matting, tapered plywood deck.
Roof #2 Cut #15 Ballasted EPDM, (2) Layers 2" extruded polystyrene insulation, tapered concrete deck.
Roof #2 Cut #16 Ballasted EPDM, (2) Layers 2" extruded polystyrene insulation, tapered concrete deck.
Roof #2 Cut #17 Ballasted EPDM, (2) Layers 2" extruded polystyrene insulation, tapered concrete deck.
Roof #3 Cut #11 Ballasted EPDM, 4" EPS, thermoplastic membrane, 1 1/2" perlite, built-uproofing, 1 1/2" perlite, corrugated flat metal deck.
Roof #3 Cut #12 Ballasted EPDM, 7" EPS, thermoplastic membrane, 1 1/2" perlite, built-uproofing, 1 1/2" perlite, corrugated flat metal deck.
Roof #4 Cut #13 Ballasted EPDM, 1" iso, tapered concrete deck.
Roof #4 Cut #14 Ballasted EPDM, 1" iso, tapered concrete deck.
Roof #5 Cut #8 Fully-adhered EPDM, 2 1/2" iso, 1 1/2" perlite, tapered wood fiber, corrugated flat metal deck.
Roof #5 Cut #9 Fully-adhered EPDM, 2 1/2" iso, 1 1/2" perlite, tapered wood fiber, corrugated flat metal deck.
Roof #5 Cut #10 Fully-adhered EPDM, 2 1/2" iso, 1 1/2" perlite, tapered wood fiber, corrugated flat metal deck.
Roof #6 Cut #6 Fully-adhered EPDM, 2 3/4" iso, 1 1/2" tapered wood fiber, built up roofing, 1 1/2"perlite corrugated flat metal deck.
Roof #6 Cut #7 Fully-adhered EPDM, 2 3/4" iso, 1 1/2" tapered wood fiber, built up roofing, 1 1/2"perlite corrugated flat metal deck.
Roof #7 Cut #5 Fully-adhered EPDM, 2 3/4" iso, 1 1/2" tapered wood fiber, built up roofing, 1 1/2"perlite corrugated flat metal deck.
Roof #8 Cut #1 Ballasted EPDM, 4" EPS, 1 1/2" perlite, tapered wood fiber, 4 1/2" tapered wood fiber,corrugated flat metal deck.
Roof #8 Cut #2 Ballasted EPDM, 4" EPS, 1 1/2" perlite, tapered wood fiber, 4 1/2" tapered wood fiber,corrugated flat metal deck.
Roof #9 Cut #3 Ballasted EPDM, 4" EPS, 1 1/2" perlite, tapered wood fiber, 4 1/2" tapered wood fiber,corrugated flat metal deck.
Roof #9 Cut #4 Ballasted EPDM, 4" EPS, 1 1/2" perlite, tapered wood fiber, 4 1/2" tapered wood fiber,corrugated flat metal deck.

Fleet Services Roof Demolition Plan
Remove all of the existing roofing system down to the roof deck including all existing composition base flashing for Roofs 1–9.



Install a new 60 mil fully adhered EPDM white roofing system for all roofs for shown. With the re-establishment the expansion joint, roofs 5 & 6 shall become roofs 5S, 5N, 6S & 6N



Dimensions are provided for
reference only. The contractor is
responsible for field verifying
details and dimensions.



Designed Prepared For:

City of Madison
Fleet Services

Design & Project Engineer

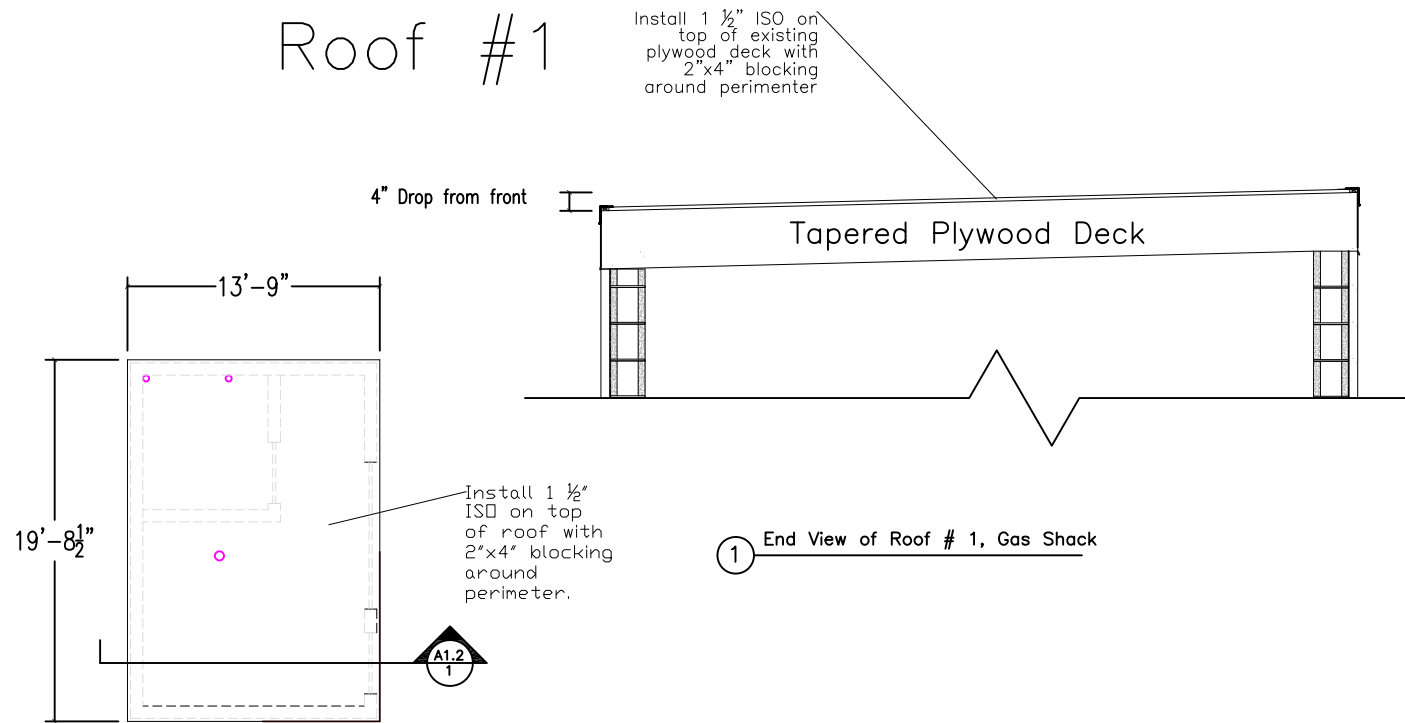
Paul Stauffer
(608) 266-4366
pstauffer@cityofmadison.com

Fleet Services Roof Replacement
200 North First Street
Madison, WI
Contract: 7027 Project: 53W1569

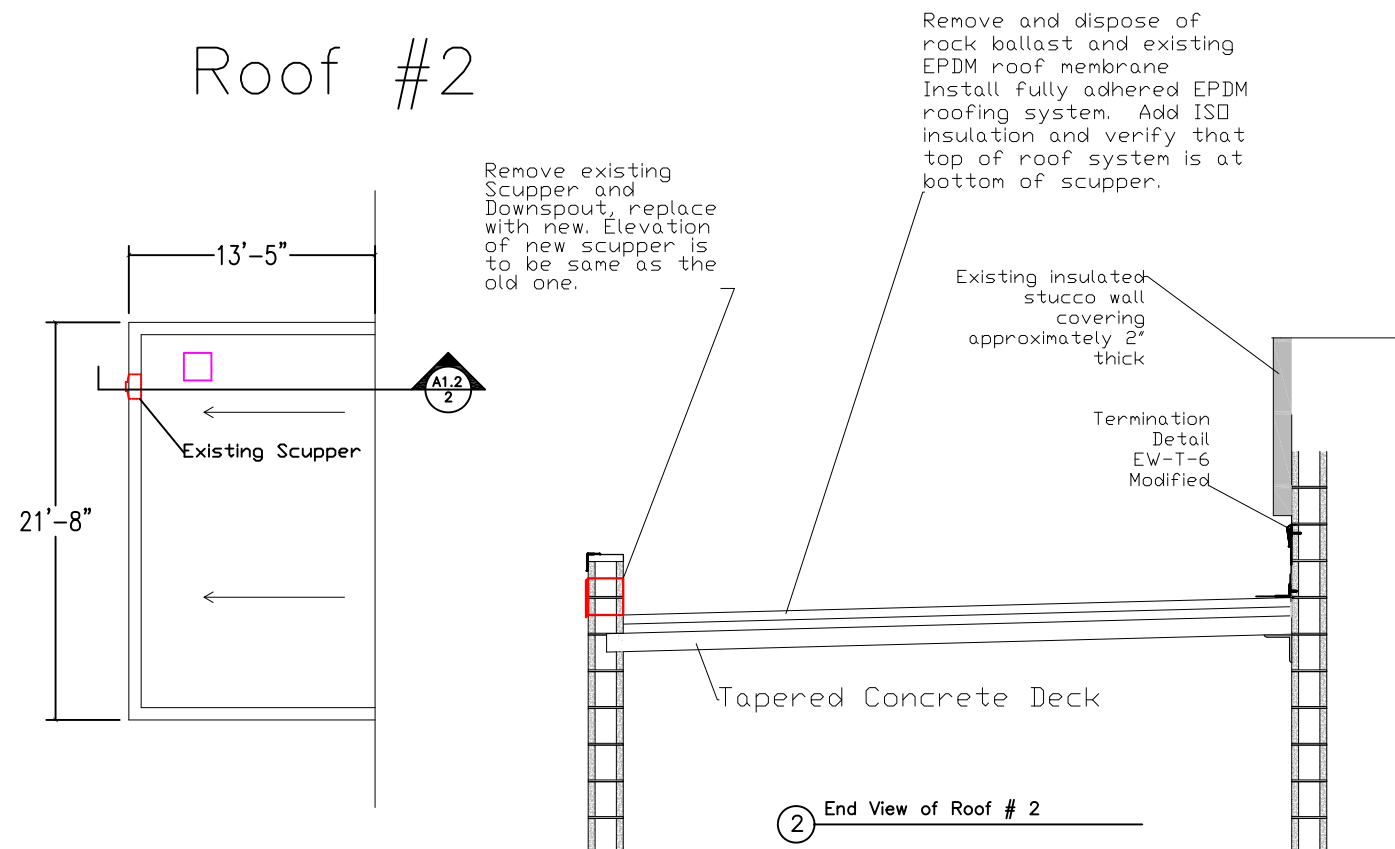
Sheet Number:

A-1.1
Roof Plan,
Roofs 1, 2,
4 & 7

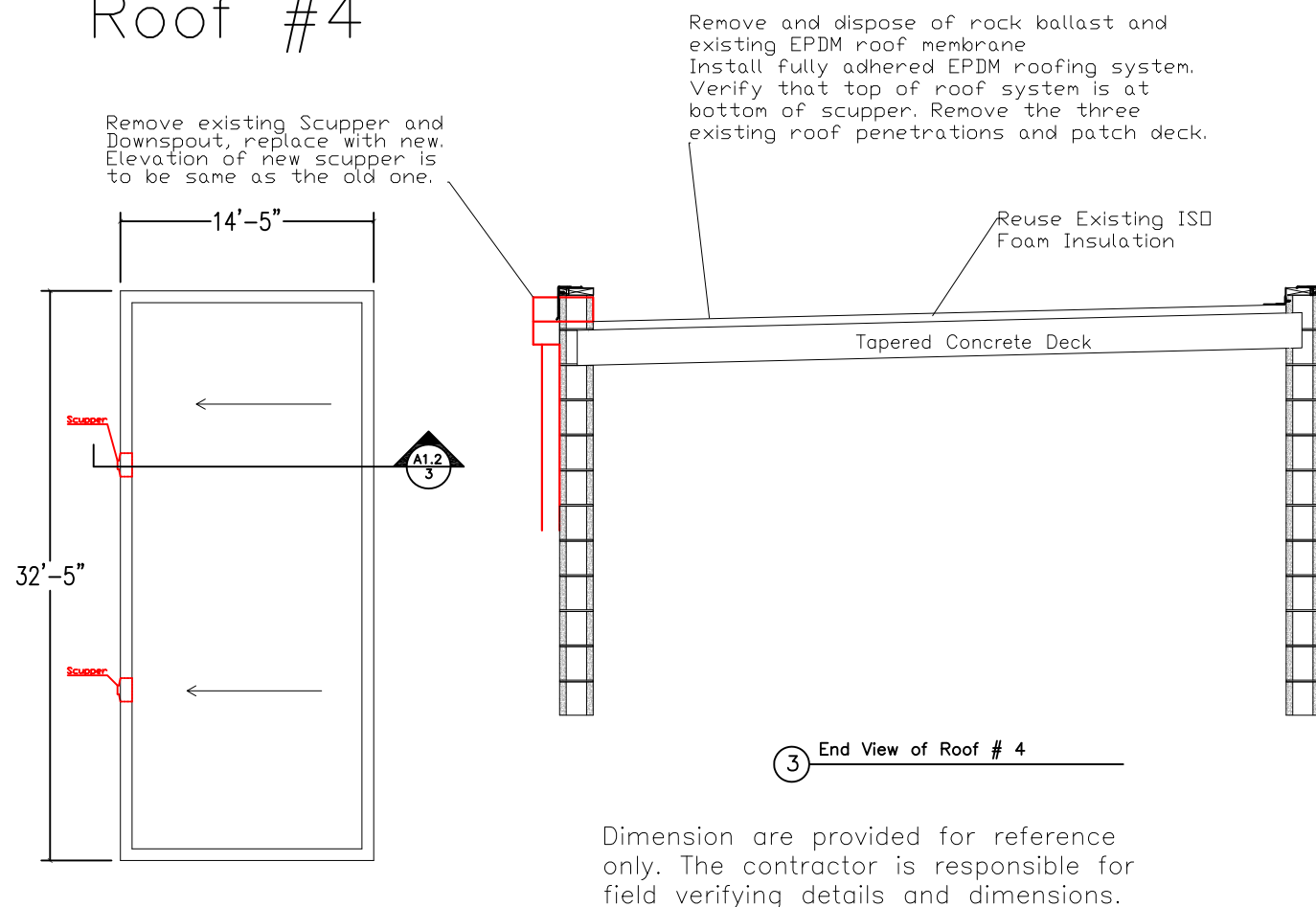
Roof #1



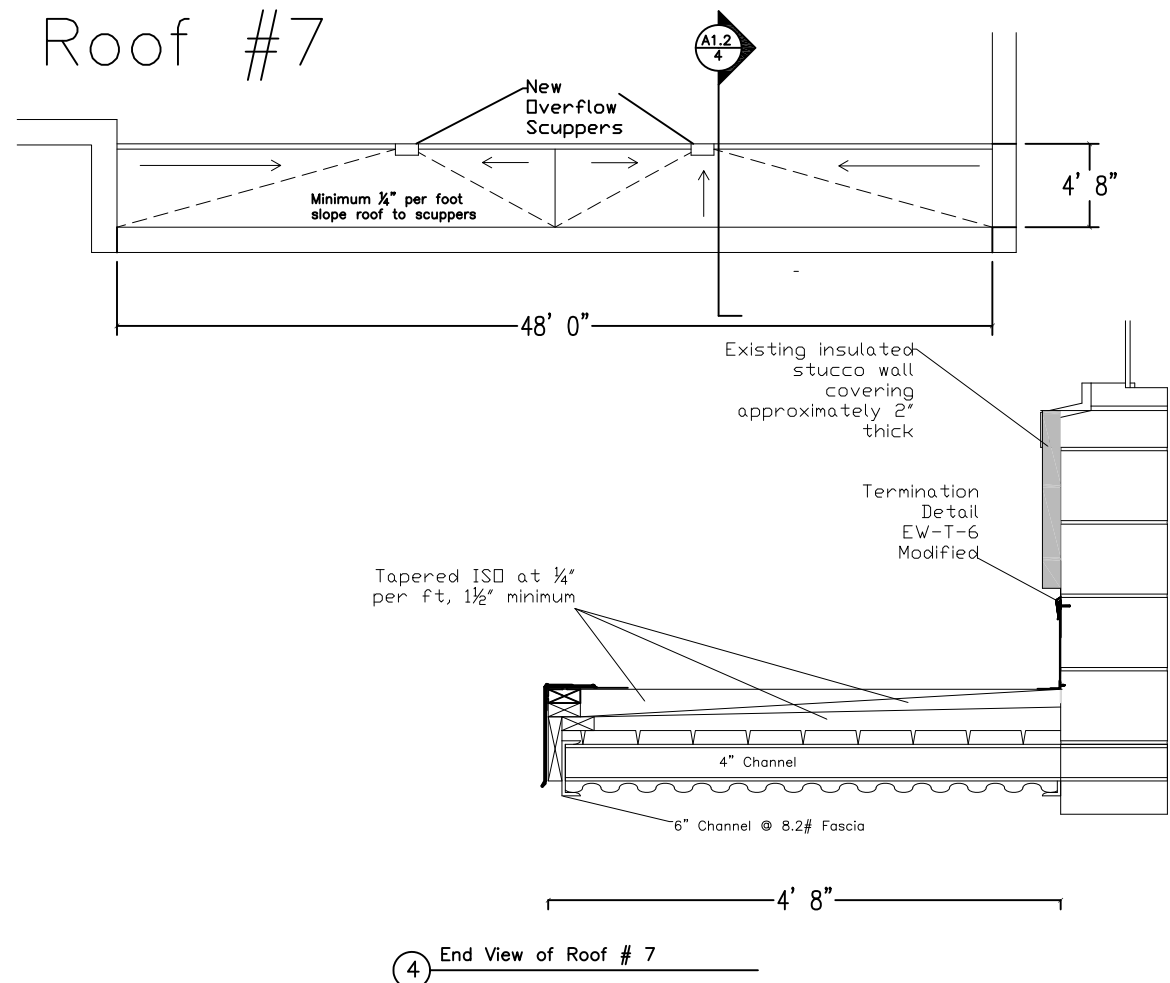
Roof #2



Roof #4



Roof #7

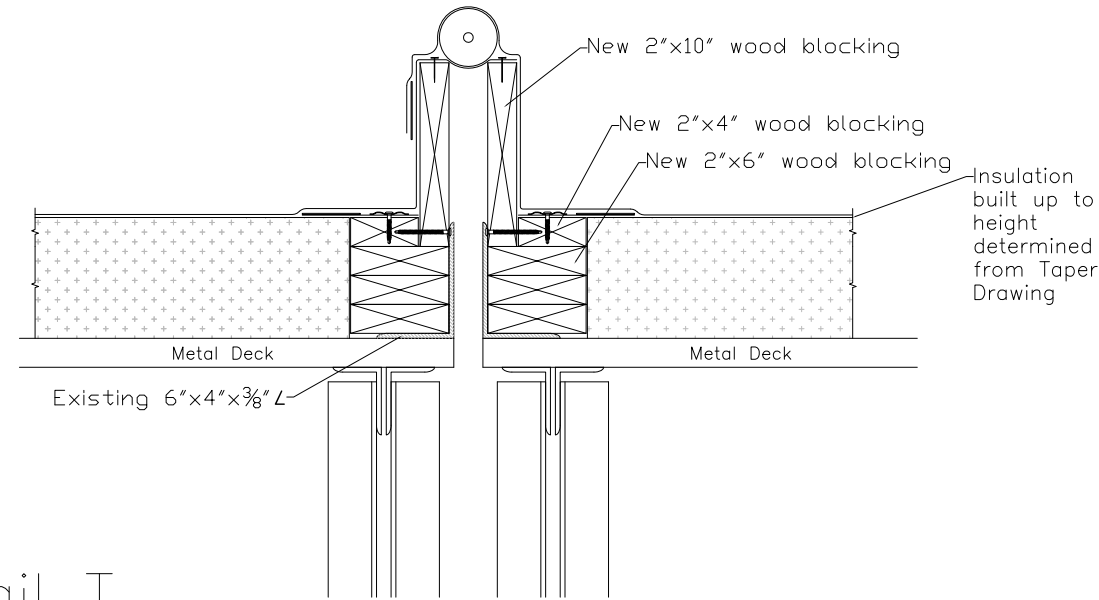


Roof #9

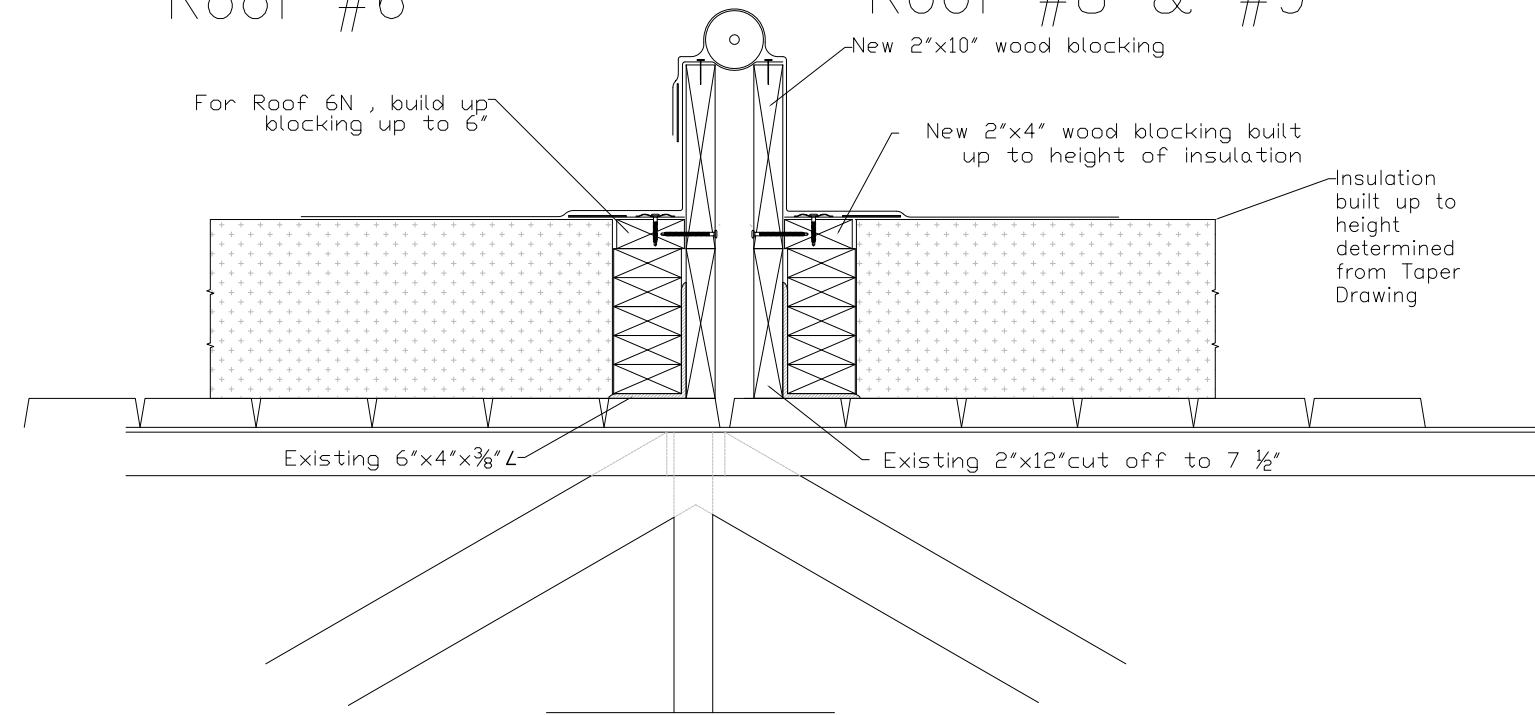
Roof #8

Roof #6

Roof #8 & #9



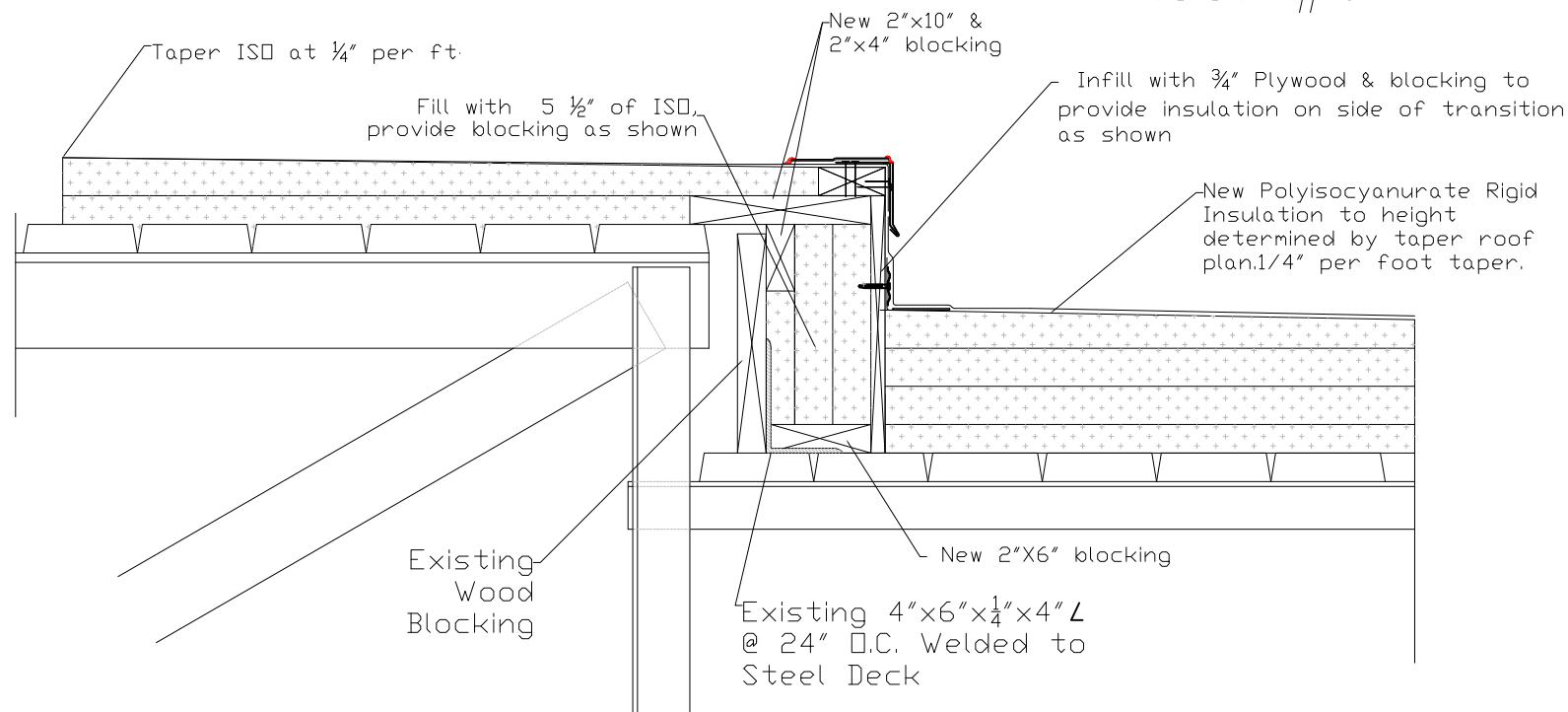
Detail T
Expansion Joint Between Roof #8 & #9



Detail R— Expansion Joint Between
Roof #6 & Roofs #8 & #9

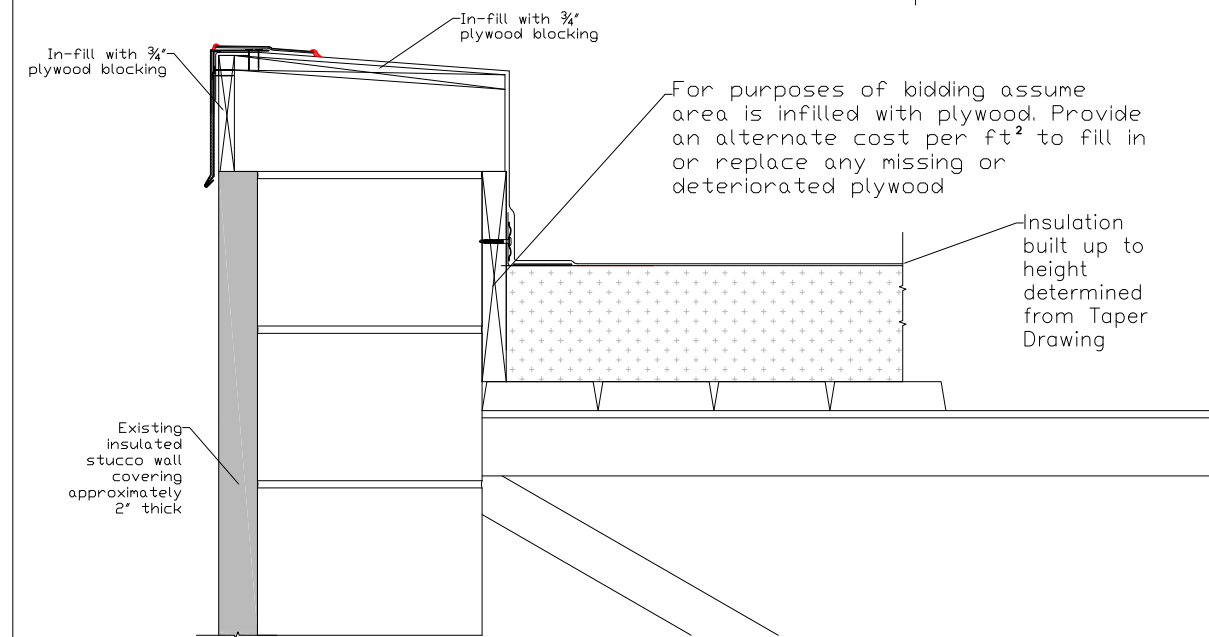
Roof #5

Roof #6



Detail S— Transition Between Roof
#5 & #6

General Detail for all Parapet Walls



Detail U— Parapet Wall Roof #5

For purposes of bidding provide blocking as shown on drawings. Additional blocking shall be provide as unit price alternate. Existing blocking may be reused after inspection & approval from the Project Manger.

City of
Madison

Facilities & Sustainability
Management
210 Martin Luther King Jr.
Blvd Room 115



Designed Prepared For:

City of Madison
Fleet Services

Design & Project Engineer

Paul Stauffer
(608) 266-4366
pstauffer@cityofmadison.com

Fleet Services Roof Replacement
200 North First Street
Madison, WI

Contract: 7027 Project: 53W1569

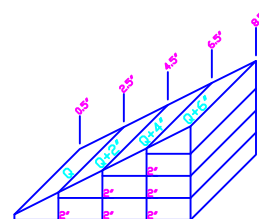
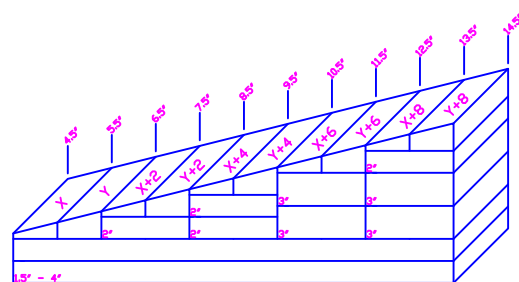
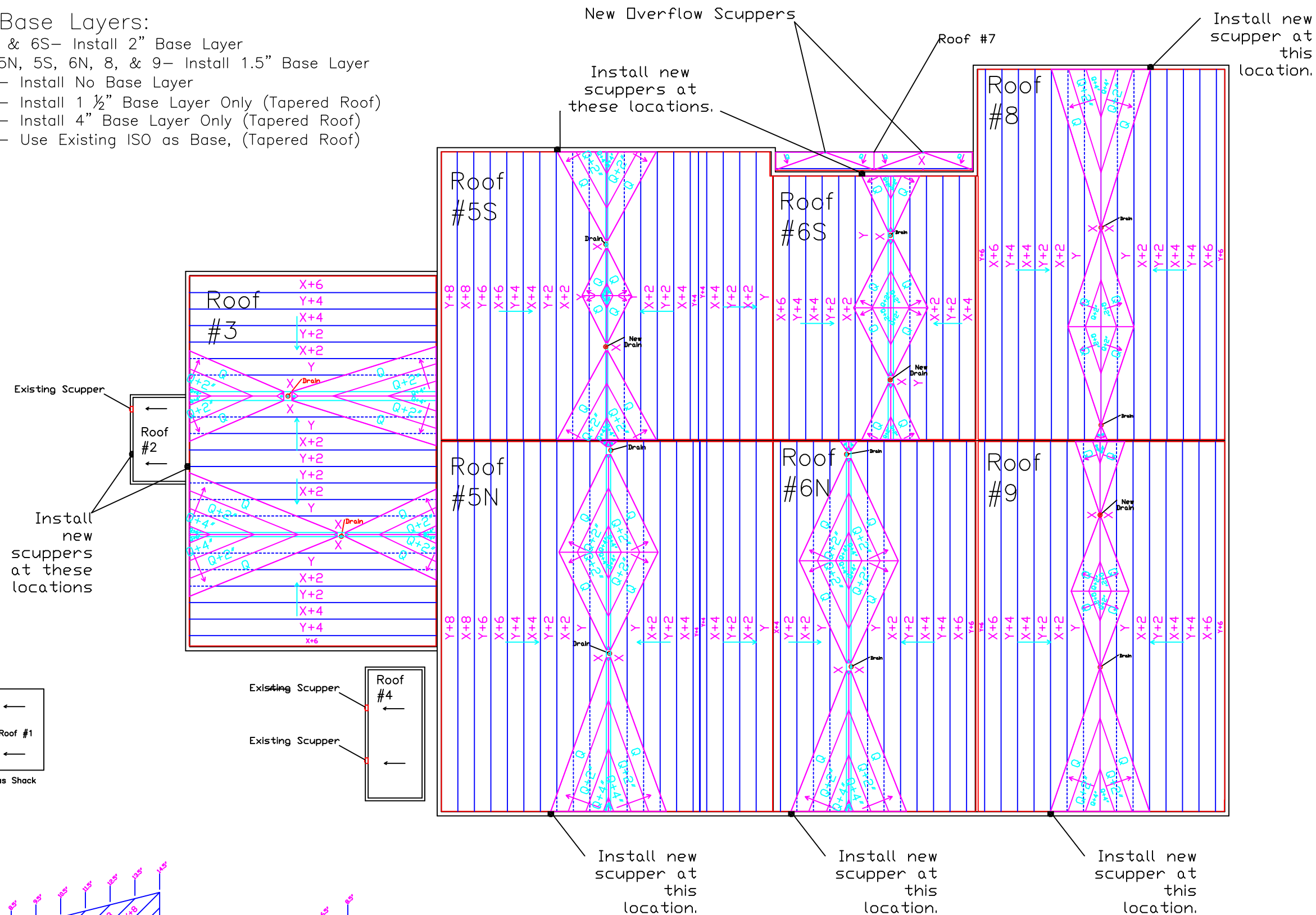
Sheet Number:

A-1.2

Roof
Details

Roof Base Layers:

- Roof #3 & 6S– Install 2" Base Layer
- Roof # 5N, 5S, 6N, 8, & 9– Install 1.5" Base Layer
- Roof #7– Install No Base Layer
- Roof #1– Install 1 ½" Base Layer Only (Tapered Roof)
- Roof #2– Install 4" Base Layer Only (Tapered Roof)
- Roof #4– Use Existing ISO as Base, (Tapered Roof)



Taper Section Cross Sections
Base layers from X as stated above.

Install taper roof plan to obtain a minimum of R-35 for each roof section. Scuppers shall be fabricated from .040 Aluminum and shall have welded metal sleeves with rounded sheet metal flange corners. Dimension of scupper shall be 8" x 16" and shall extend one inch from outside wall with flange and continuous bead of sealant. Scupper height for Roof #5 shall be no less than 4". Shop drawings must be provide for taper plan and scupper detail. Bottom of scuppers shall be locate at top elevation of roofing membrane.

City of Madison

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Management
210 Martin Luther King Jr.
Blvd Room 115



Designed Prepared
For:

City of
Madison
Fleet Services

Design & Project
Engineer

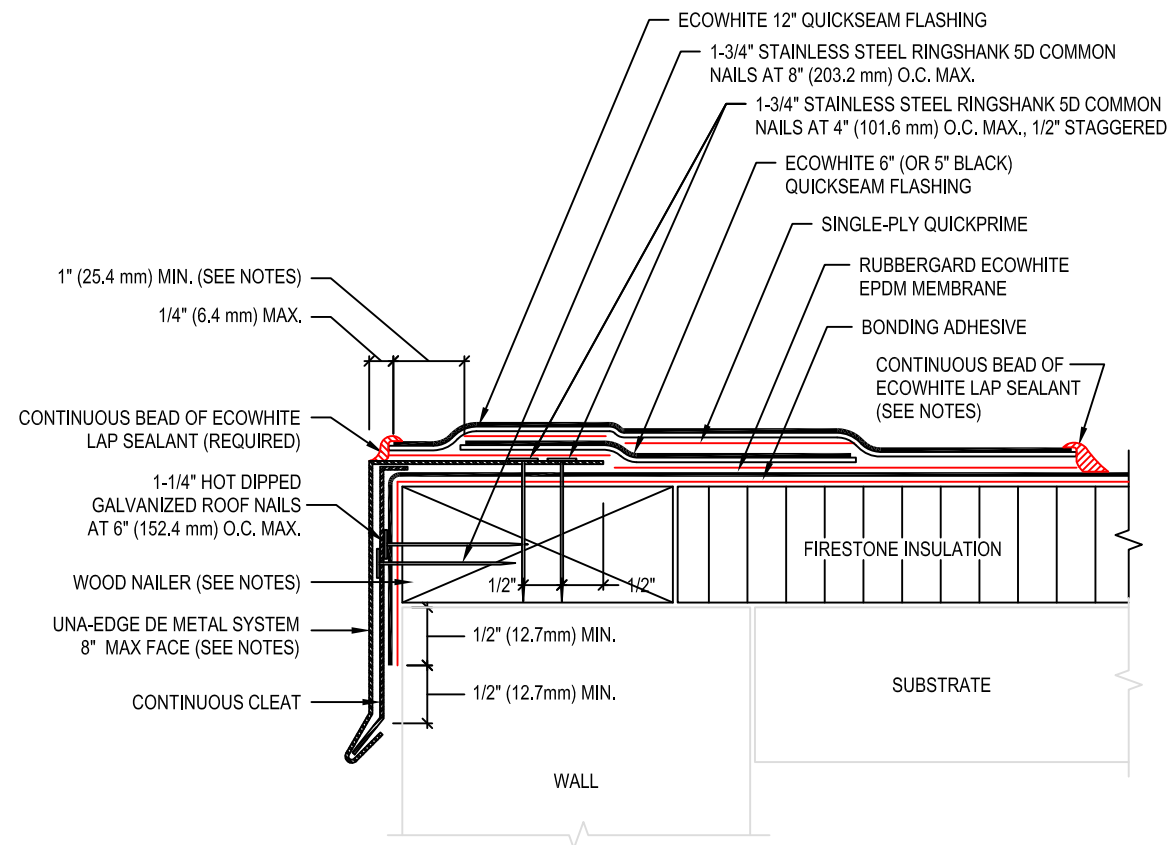
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(608) 266-4366
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Fleet Services Roof Replacement
200 North First Street
Madison, WI
Contract: 7027 Project: 53W1569

Sheet Number:

A-1.3

Taper Roof Plan,
New Scupper
Locations

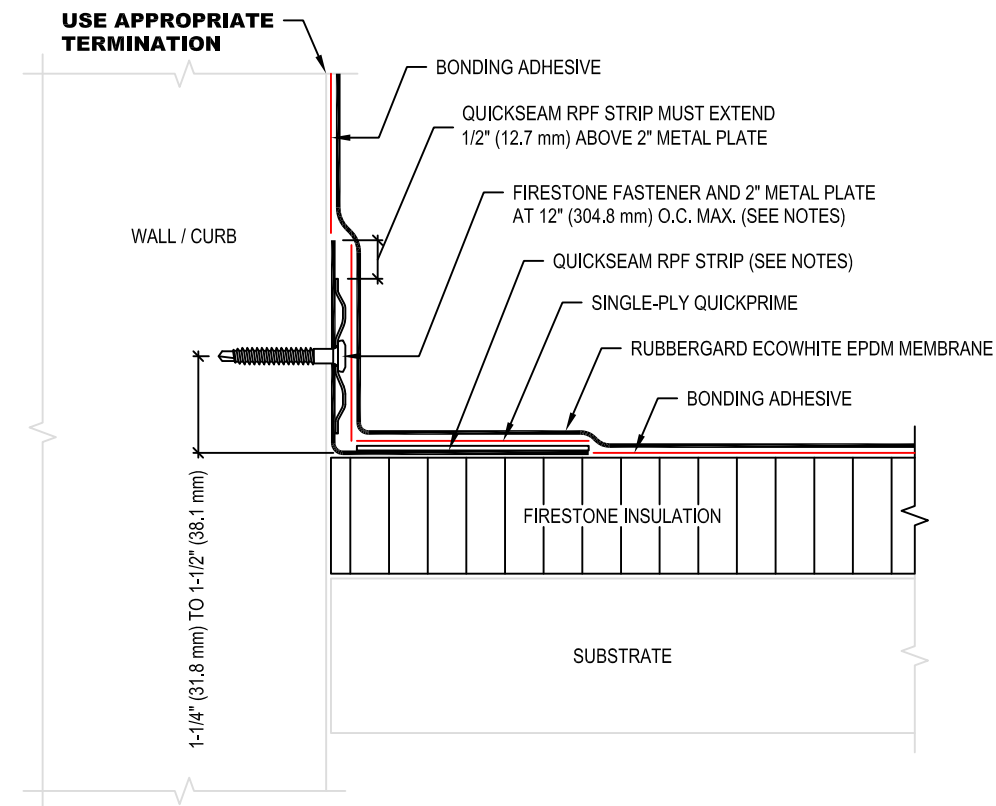


NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. 12" ECOWHITE QUICKSEAM FLASHING EXTEND TO WITHIN 1/4" (6.4 mm) OF THE METAL EDGE.
3. INSTALL METAL WORK TO FIRESTONE INSTALLATION INSTRUCTIONS.
4. ECOWHITE LAP SEALANT IS REQUIRED ALONG ENTIRE UPSLOPE EDGE OF ECOWHITE QUICKSEAM FLASHING WHEN ROOF SLOPE IS 1" (25.4 mm) PER FOOT OR GREATER, REFER TO EW-LS-9 FOR SEAM EDGE TREATMENT.
5. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
6. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (12.7 mm) FROM EDGE OF WOOD.

Roof Edge Detail EW-RE-14A

Note: These details are provided for one manufacturer only and are intended for reference. The contractor shall provide submittals based on the roofing manufacturer specifications that will provide the stated warranty



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO EW-BT-14 & 15 FOR QUICKSEAM RPF STRIP LAYOUT AT CORNERS.

Base Tie In Detail EW-RE-14A

City of Madison

Facilities & Sustainability
Management
210 Martin Luther King
Jr. Blvd Room 115



Designed Prepared For:

**City of Madison
Fleet Services**

Design & Project Engineer

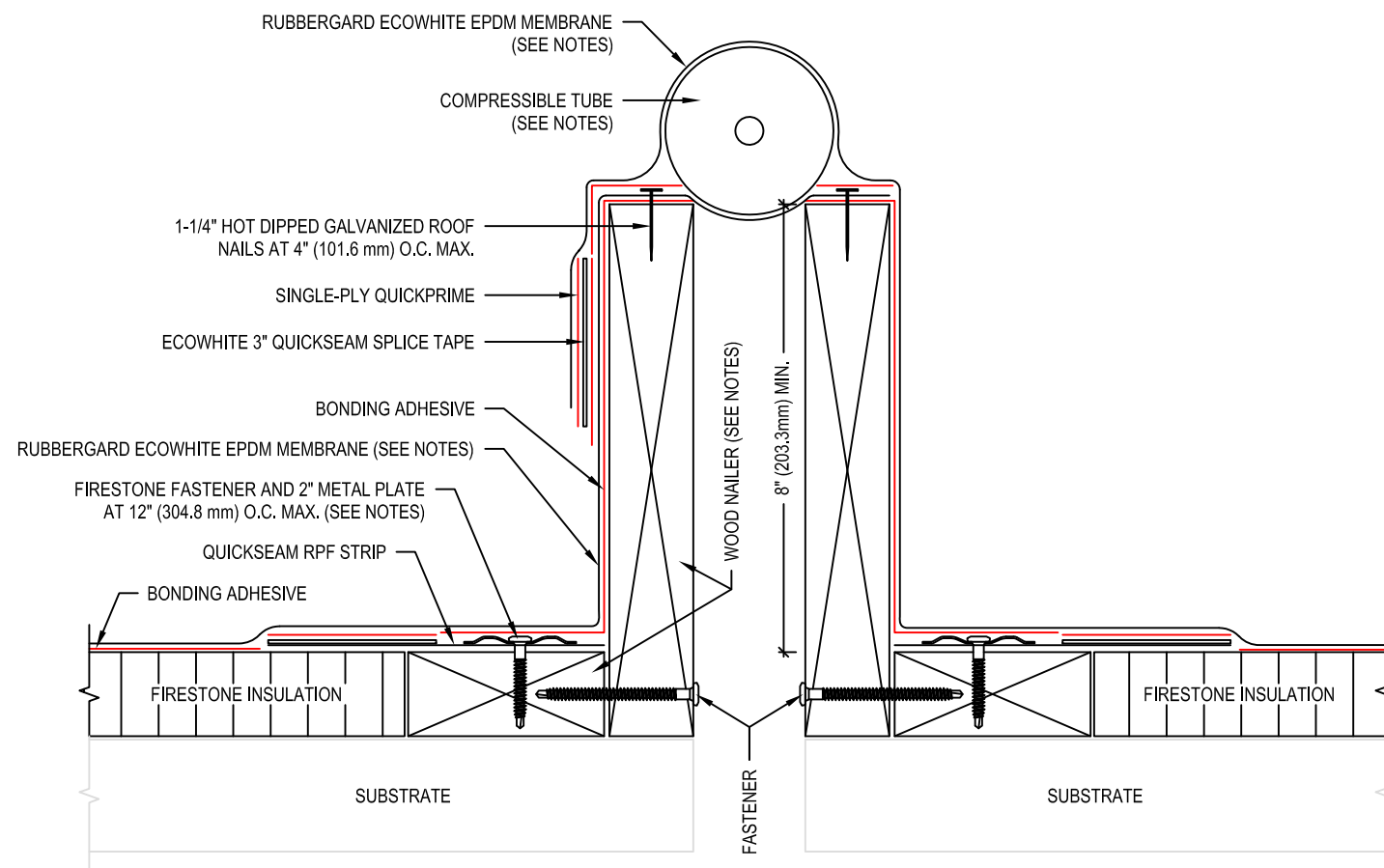
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(608) 266-4366
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Fleet Services Roof Replacement
200 North First Street
Madison, WI
Contract: 7027 Project: 53W1569

Sheet Number:

A-1.4

Roof Details

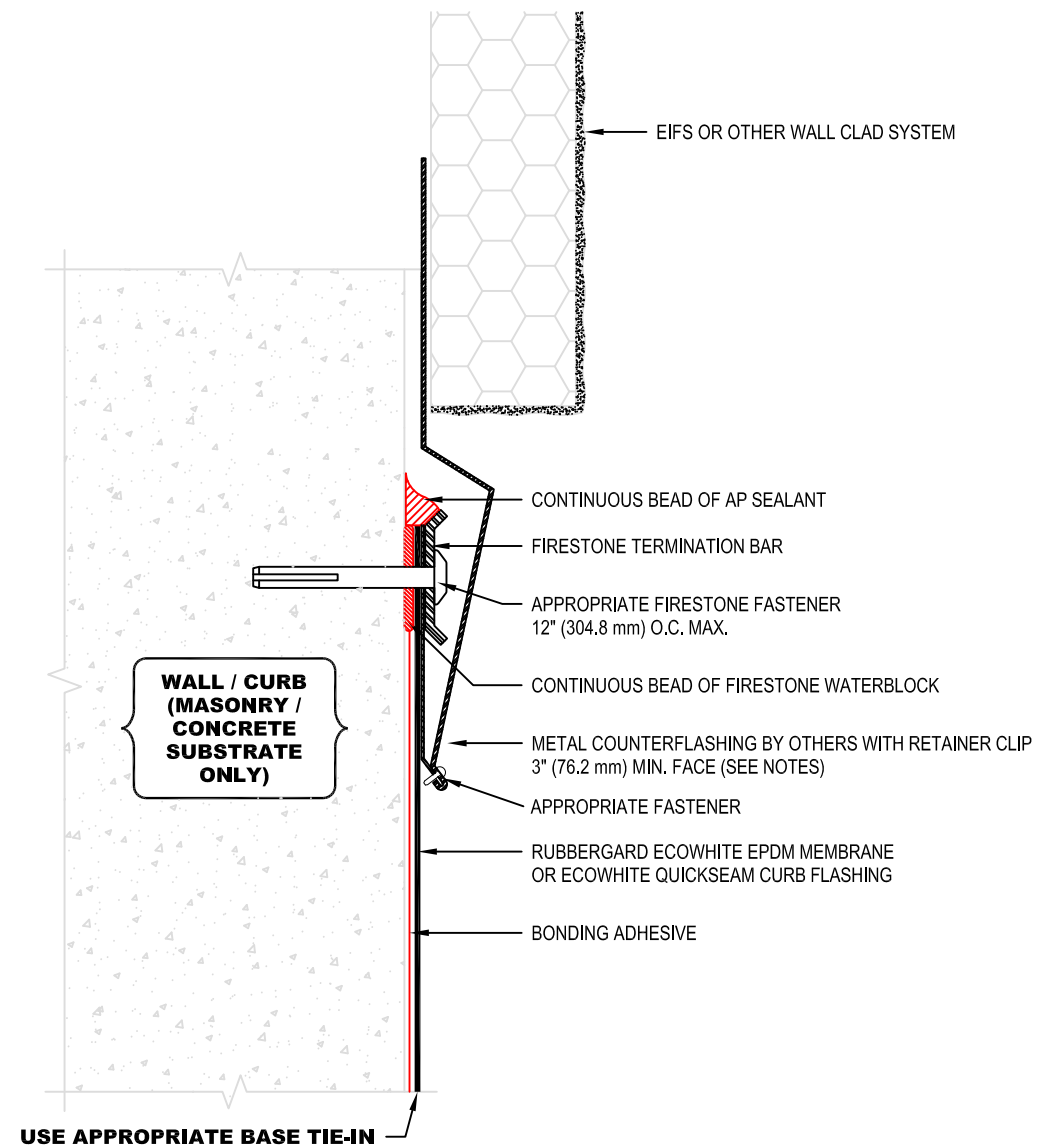


NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. RUBBERGARD ECOWHITE EPDM MEMBRANE SPOT ATTACHED ALONG THE TOP OF EXPANSION JOINT TUBE WITH BONDING ADHESIVE.
3. COMPRESSIBLE TUBE (SUPPLIED BY OTHERS) DIAMETER MUST EXCEED THE DECK OPENING BY 50% MIN. OR DESIGNED MOVEMENT (WHICHEVER IS GREATER).
4. FIELD MEMBRANE FORMED INTO RETAINER TO SUPPORT FOAM ROD.
5. BATTEN STRIP MAY BE USED IN LIEU OF 2" METAL PLATES. REFER TO "EW-BT" DETAILS FOR SPECIFIC BASE TIE-IN INFORMATION, REQUIREMENTS, AND OPTIONS.
6. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
7. REFER TO EW-LS-10 FOR ADDITIONAL LAP SPLICE REQUIREMENTS.

Expansion Joint Detail EW-E-9

Note: These details are provided for one manufacturer only and are intended for reference. The contractor shall provide submittals based on the roofing manufacturer specifications that will provide the stated warranty



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REGULAR MAINTENANCE OF COUNTERFLASHING AND SEALANTS REQUIRED. NOT INCLUDED AS PART OF THE FIRESTONE WARRANTY.
3. METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032" MIN. ALUMINUM FORMED WITH HEMMED LOWER EDGE.

WALL SYSTEMS MUST BE WATERPROOFED AND MAINTAINED IN ORDER FOR ANY SURFACE MOUNTED TERMINATION TO BE EFFECTIVE.

Base Tie-In Detail EW-T-6, Modified

City of Madison

Facilities & Sustainability
Management
210 Martin Luther King
Jr. Blvd Room 115



Designed Prepared For:

**City of Madison
Fleet Services**

Design & Project Engineer

Paul Stauffer
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200 North First Street
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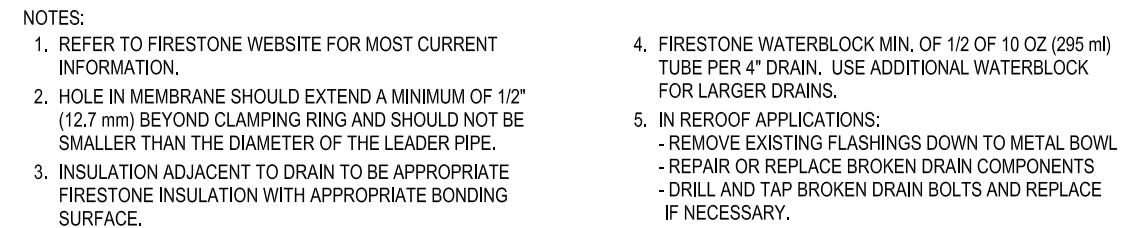
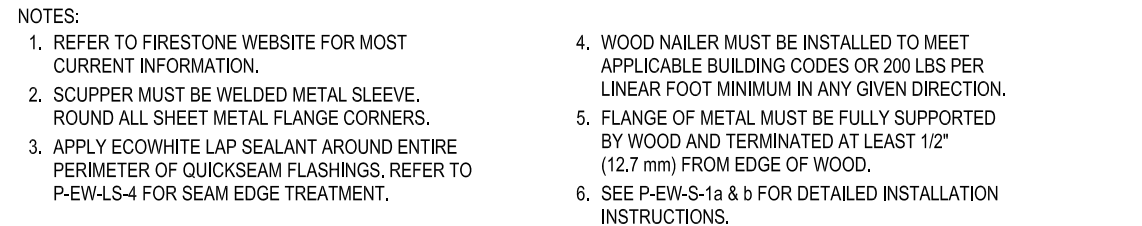
A-1.5

Roof Details

Madison

Design & Project Engineer
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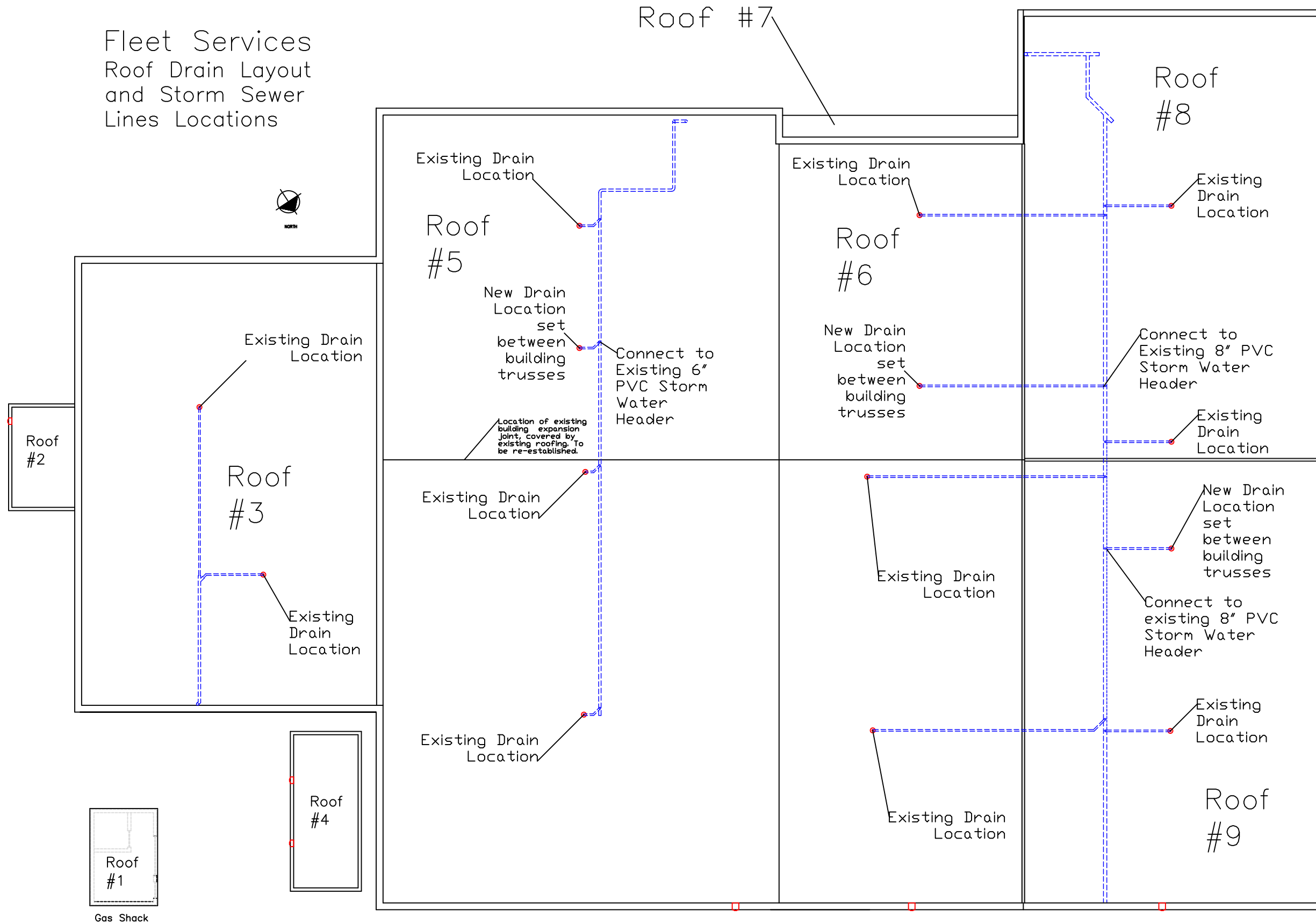
Sheet Number:
A-1.6
Roof Details



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Roof Drain Detail P-EW-D-1

Fleet Services Roof Drain Layout and Storm Sewer Lines Locations



Install three new roof drains at locations indicated. New drain lines shall be PVC, matching existing lines in schedule, type and insulation. Pitch of drain line shall be $\frac{1}{4}$ " per ft. Connect to existing storm water lines inside of building. Locate drains between trusses with exact locations to be determined by final taper insulation roof plan.

City of Madison

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Roof Drain &
Storm Sewer
Lines Locations