

# SONIC PROJECT DATA

## OWNER

RON CARTER  
1007 N. ROANE ST.  
HARRIMAN, TENN. 37748  
(423) 590-2224  
(423) 590-9322 - FAX

## ARCHITECT

SONIC CORPORATION  
ARCHITECTURE AND ENGINEERING  
101 PARK AVENUE  
OKLAHOMA CITY, OKLAHOMA 73102  
(405) 280-1654  
(405) 280-1658 - FAX

## STRUCTURAL ENGINEER

JACK QULLS  
204 BURK WAY  
DEL CITY, OKLAHOMA 73115

## MECH. / ELEC. ENGINEER

SCHUELEN AND HALFAN ENGINEERING  
1650 CITIZEN TOWER BUILDING  
OKLAHOMA, OKLAHOMA 73102

## CIVIL ENGINEER

ETE CONSULT. ENGR. INC.  
311 DAK RIDGE TURNPIKE  
DAK RIDGE, TENN. 37830

## APPLICABLE CODES

SOUTHERN STD. BUILDING CODE  
AND ANY STATE OR LOCAL ADENDMENTS

BUILDING:  
PLUMBING:  
MECHANICAL:  
ELECTRICAL:  
GAS:  
FIRE:  
HANDICAPPED:

SPC - 1994  
SMC - 1994  
SMC - 1994 & NFPA - 1996  
NEC - 1993  
SPC - 1994  
SFC - 1994  
ADAAG - 1991 WITH 1992-1996  
SUPPLEMENTS

OCCUPANCY LOAD: 10

OCCUPANCY CLASSIFICATION: GROUP B (304.2.2)

CONSTRUCTION TYPE: VI UNPROTECTED

## BUILDING DATA

PROPOSED USE OF BUILDING: DRIVE-IN /  
DRIVE-THRU RESTAURANT

BUILDING AREA:	EXISTING NEW	N/A 1,362 SF.
PUBLIC EMPLOYEE		N/A 1,362 SF.
TOTAL GROSS		1,362 SF.

## PERCENTAGE OF LOT COVERED BY BUILDING:

3.7 %

## BUILDING HEIGHT:

EXISTING  
NEW

N/A  
14'-0"

## CANOPY AREA:

EXISTING  
NEW

5,976 SF.

## PERCENTAGE OF LOT COVERED BY CANOPY:

16.2 %

## CANOPY HEIGHT:

EXISTING  
NEW

N/A  
9'-6"

## SITE DATA

### SITE AREA:

UNDEVELOPED:  
DEVELOPED: 36,888 SF.

### PARKING PROVIDED:

DRIVE-IN STALLS: 32 STALLS  
EMPLOYEE PARKING: 09 SPACES  
PATIO PARKING: 04 SPACES  
TOTAL: 45 SPACES

### ZONING:

C-2 GEN. COMM.L.

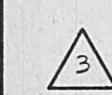
## SYMBOL LEGEND



DETAIL REFERENCE



BUILDING SECTION



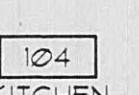
## REVISION



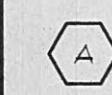
LEVEL LINE OR CORNER POINT



## DOOR NUMBER



ROOM NAME AND NUMBER



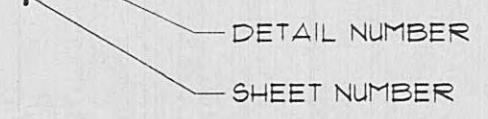
## WINDOW NUMBER



INTERIOR / EXTERIOR ELEVATION



DETAIL REFERENCE



DETAIL NUMBER

Sheet Number

## ABBREVIATIONS

@	AT	DRYER	H.C.	HOLLOW CORE	N.	NORTH	S.&V.	STAIN & VARNISH
A.B.	ANCHOR BOLT	D.F.	HOLLOW METAL	NIC.	NOT IN CONTRACT	S.G.	SOLID CORE	
A.D.	AREA DRAIN	D.I.	DROP INLET	N.M.	NOT TO SCALE	S.D.	STORM DRAIN	
A.F.F.	ABOVE FINISHED FLOOR	D.L.	DEAD LOAD	H.M.F.	HOLLOW METAL FRAME	S.DISP.	SOAK DISPENSOR	
A/C	AIR CONDITIONER	D.S.	DOWN SPOUT	H.D.	HEAD	S.S.	SERVICE SINK	
ACJU.S.	ACOUSTICAL	D.W.	DISHWASHER	HDR.	HEADER	S.S.	STAINLESS STEEL	
ADD.	ADDENDUM	DBL.	DOUBLE	HDVR.	HORIZONTAL	S.S.	STORM SEWER	
ADJ.	ADJUSTABLE OR ADJACENT	DIA.	DIAMETER	HR2.	HARD	S.S.C.	SMOOTH SAWN CEDAR	
ALT.	ALTERNATE	DIAG.	DIAGONAL	HRD.	OUTSIDE DIAMETER	SAN.SEW.	SANITARY SEWER	
AL.	ALUMINUM	DIM.	DIMENSION	HT.	OVER HEAD	SEC.	SECTION	
ANCR.	ANCHOR	DR.	DOOR	HTG.	OVERALL	SCHED.	SCHEDULE	
ANOD.	ANODIZED	DTL.	DETAIL	HVAC	OPENING	SHT.	SHEET	
APP'DIX.	APPRDXIMATELY	DWG.	DRAWING	OPNG.	OPPOSITE	SHTHG.	SHEATHING	
ARCH.	ARCHITECTURAL	D.W.	DRYWALL	OPP.	OPPOSITE HAND	SIM.	SIMILAR	
ASP.	ASPHALT	E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM	P.T.	P.T.	SL.	SLIDING	
A.T.	ACOUSTIC TILE	E.J.	EXPANSION JOINT	P.C.	PRECAST	SPEC. (\$)	SPECIFICATION (\$)	
ADAAG.	AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES	E.W.	EACH WAY	P.E.J.	PREMOLDED EXPANSION JOINT	SQ.	SQUARE	
BA.	BATH	E.W.C.	ELECTRIC WATER COOLER	P.P.	PROPERTY LINE	STA.	STATION	
B.C.	BOTTOM OF CURB	ELEC.	ELECTRICAL	P.L.	POWER POLE	STD.	STANDARD	
B.F.F.	BELLOW FINISH FLOOR	ELEV.	ELEVATION	JAN.	JANITOR	STL.	STEEL	
B.R.U.	BUILT-UP ROOF	EMER.	EMERGENCY	J.C.	JANITOR CLOSET	STOR.	STORAGE	
BD.	BOARD	EQ.	EQUAL	JST.	JOIST	STRUCT.	STRUCTURAL	
BK.	BLOCK	E.H.	EXHAUST	JT.	JOINT	SUSP.	SUSPENDED	
BLDG.	BUILDING	EXP.	EXPANSION	P.T.R.	PAPER TOWEL RECEPTOR	T.	TREADS	
BLKG.	BLOCKING	EXT.	EXTERIOR	L.L.	LIVE LOAD	T.&B.	TOP AND BOTTOM	
BM.	BEAM	EA.	EACH	L.L.H.	LONG LEG HORIZONTAL	T.G.	TONGUE AND GROOVE	
B.M.	BENCH MARK	ELEC.	ELECTRICAL	L.L.V.	LONG LEG VERTICAL	PLY.WD.	PLYWOOD	
BOT.	BOTTOM	ELEV.	ELEVATION	L.T.	LIGHT	P.D.S.	POINT OF SALE	
BRG.	BEARING	F.D.	FLOOR DRAIN	L.W.	LIGHT WEIGHT	PR.	PAIR	
BRZ.	BRONZE	F.E.	FIRE EXTINGUISHER	LAM.	LAMINATED	P.SF.	POUNDS PER SQUARE FOOT	
BTU	BRITISH THERMAL UNIT	F.E.C.	FIRE EXTINGUISHER AND CABINET	LAV.	LAVATORY	PSI	POUNDS PER SQUARE INCH	
CB.	CATCH BASIN	FIN.	FINISHED FLOOR	L.G.	LONG	PT.	PAINT	
CI.	CAST IRON	FLG.	FLASHING	L.W.B.	LIGHT WEIGHT BLOCK	P.TD.	PAINTED	
C.J.	CONTROL JOINT	FLR.	FLOOR	L.DUVER.	LDUVER	PVC.	POLYVINYL CHLORIDE	
CL.	CENTER LINE	FND.	FOUNDATION	M.D.	MASONRY OPENING	PVMT.	PAVEMENT	
CMU.	CONCRETE MASONRY UNIT	FT.	FOOT	MC.	MINERAL CORE	V.B.	VAPOR BARRIER	
CO.	CASED OPENING	FTG.	FOOTING	MC.J.	MASONRY CONTROL JOINT	V.C.T.	VINYL COMPOSITION TILE	
CO.	CLEAN OUT	F.R.	FIRE RATED	M.F.R.	MINERAL FIBER REINFORCED	V.W.C.	VINYL WALL COVERING	
C.Y.	CUBIC YARD	F.R.G.Y.BD.	FIRE RATED GYPSUM BOARD	MAS.	MASONRY MATERIAL	VAR.	VARIES	
CEM.	CEMENT	FRTW.	FIRE RETARDANT TREATED	MATL.	MAXIMUM	VERT.	VERTICAL	
CLG.	CEILING	FL.	FLASHING	MECH.	MECHANICAL	V.F.P.	VINYL FACED PANEL	
CLR.	CLEAR	FT.	FOOT	MFG.	MANUFACTURING			
COL.	COLUMN	G.F.	GROUT	MFR.	MANUFACTURER			
COMP.	COMPOSITION	G.R.	GRADE	MH.	MANHOLE			
CONC.	CONCRETE	G.Y.P.	GYPSUM	MIN.	MINIMUM			
CONST.	CONSTRUCTION	G.Y.P.BD.	GYPSUM BOARD	MIR.	MIRROR			
CONT.	CONTINUOUS	G.R.	GRADE	MISC.	MISCELLANEOUS	REC.	RECESSED	
CONTR.	CONTRACTOR	G.Y.P.	GYPSUM	MTC.	MOUNTED	REFRIG.	REFRIGERATOR	
CS.	COUNTER SINK	G.Y.P.BD.	GYPSUM BOARD	MTL.	METAL	REFL.	REFLECTED	

## SHEET INDEX

--- COVER SHEET, SHEET INDEX INFORMATION SYMBOLS AND ABBREVIATIONS

### CIVIL

--- BOUNDARY AND TOPOGRAPHIC SURVEY  
C-1 DEMOLITION PLAN  
C-2 DIMENSION SITE PLAN  
C-3 GRADING PLAN

HARRIMAN, TENN.  
BUILDING TYPE 05D-RC  
WOOD FRAME / BRICK VENEER

SONIC  
S:\CDR\sonic\proj\cover\vt\_1998\vt1998\h01.dwg Mon Nov 09 11:08:29 1998

### ARCHITECTURAL

--- SCHEDULES / FLOOR PLAN  
A-1 EXTERIOR ELEVATIONS / LONG/TRANS. SECTIONS  
A-2 INTERIOR ELEVATIONS  
A-3 ARCHITECTURAL DETAILS  
A-4 ARCHITECTURAL DETAILS  
A-5 ARCHITECTURAL DETAILS  
A-6 ARCHITECTURAL DETAILS  
A-7 FLOOR FINISH PLAN / REFLECTED CEILING PLAN  
A-8 ROOF DETAILS / ROOF PLAN

06-01-1998  
06-01-1998  
06-01-1998  
06-01-1998  
06-01-1998  
06-01-1998  
06-01-1998  
06-01-1998

### STRUCTURAL

--- CANOPY PLAN  
S-1 FOUNDATION PLAN / ROOF FRAMING PLAN  
S-2 STRUCTURAL DETAILS  
S-3 CANOPY DETAILS  
S-4 CANOPY DETAILS  
S-5 CANOPY DETAILS  
S-6 CANOPY DETAILS

11-09-1998  
06-01-1998  
06-01-1998  
06-01-1998  
06-01-1998  
06-01-1998  
06-01-1998  
06-01-1998

### ELECTRICAL

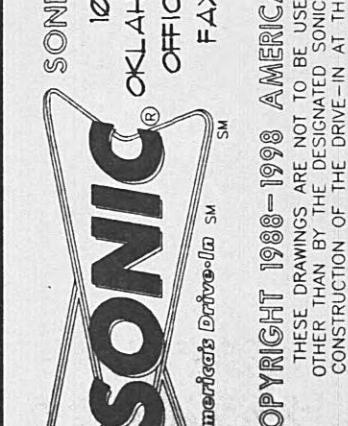
--- CANOPY / MENU WIRING  
E-1 LIGHTING PLAN / ELECTRICAL PLAN  
E-2 ELECTRICAL PLAN / ELECTRICAL RISERS

11-09-1998  
06-01-1998  
06-01-1998

### MECHANICAL

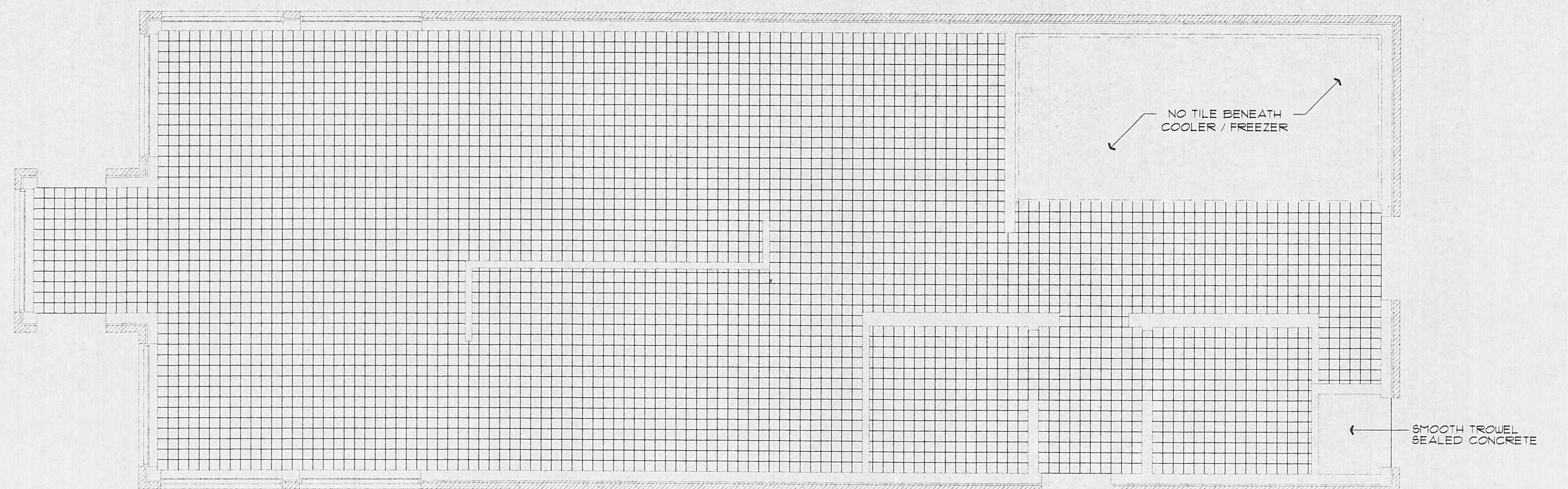
	<p><b>03</b></p> <p>NOT USED</p>	
	<p><b>09</b></p> <p>NOT USED</p>	
<p><b>13</b></p> <p>3/4" = 1'-0" 05D____RCAR009_16</p>	<p><b>15</b></p> <p>NOT USED</p>	<p><b>17</b></p> <p>3/4" = 1'-0" 05D____RCAR010_16</p>
<p>SONIC</p>	<p>22</p> <p>3" = 1'-0" 05D____RCAR011_4</p>	<p>23</p> <p>3" = 1'-0" 05D____RCAR012_4</p>
<p>SONIC</p>		
<p>SONIC</p>	<p>24</p> <p>NOT USED</p>	<p><b>A-6</b> OF 8</p> <p>DWG: 05D____RC_A-6.00 DATE: JUNE 01, 1998</p>

**ARCHITECTURAL DETAILS**



SONIC CORPORATION  
101 PARK AVENUE  
OKLAHOMA CITY, OK 73102  
OFFICES: 405-240-1554  
FAX: 405-240-7568  
www.sonic.com  
These drawings are not to be used for any purpose other than by the designer or for the owner for construction of the drive-in trust other than by the designer or for the owner for construction of the drive-in trust.

SONIC  
SHEET NO. 05D\_\_\_\_RC\_A-6.00 DATE: JUNE 01, 1998  
DWG. NO. 05D\_\_\_\_RC\_A-6.00 DATE: JUNE 01, 1998



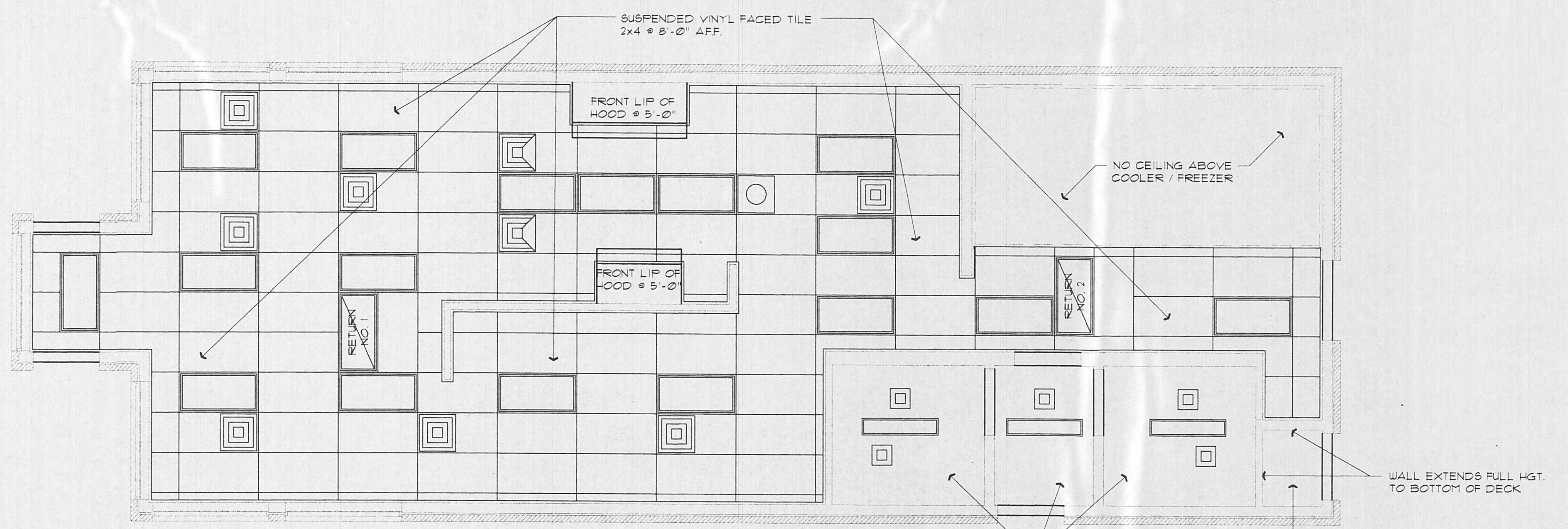
## NOTE:

ALL FLOOR TILE TRANSITIONS TO FALL ON JOINT.  
CUT TILE ADJACENT TO WALLS ONLY.

FLOOR TILE PATTERN CENTERED THROUGH  
STORE IN BOTH DIRECTIONS.

## 01 FLOOR FINISH PLAN

1/4" = 1'-0"



## NOTE:

REF SPECIFICATIONS FOR CEILING TILE INFORMATION

CEILING TILE PATTERN CENTERED THROUGH  
STORE IN BOTH DIRECTIONS.

## 02 REFLECTED CEILING PLAN

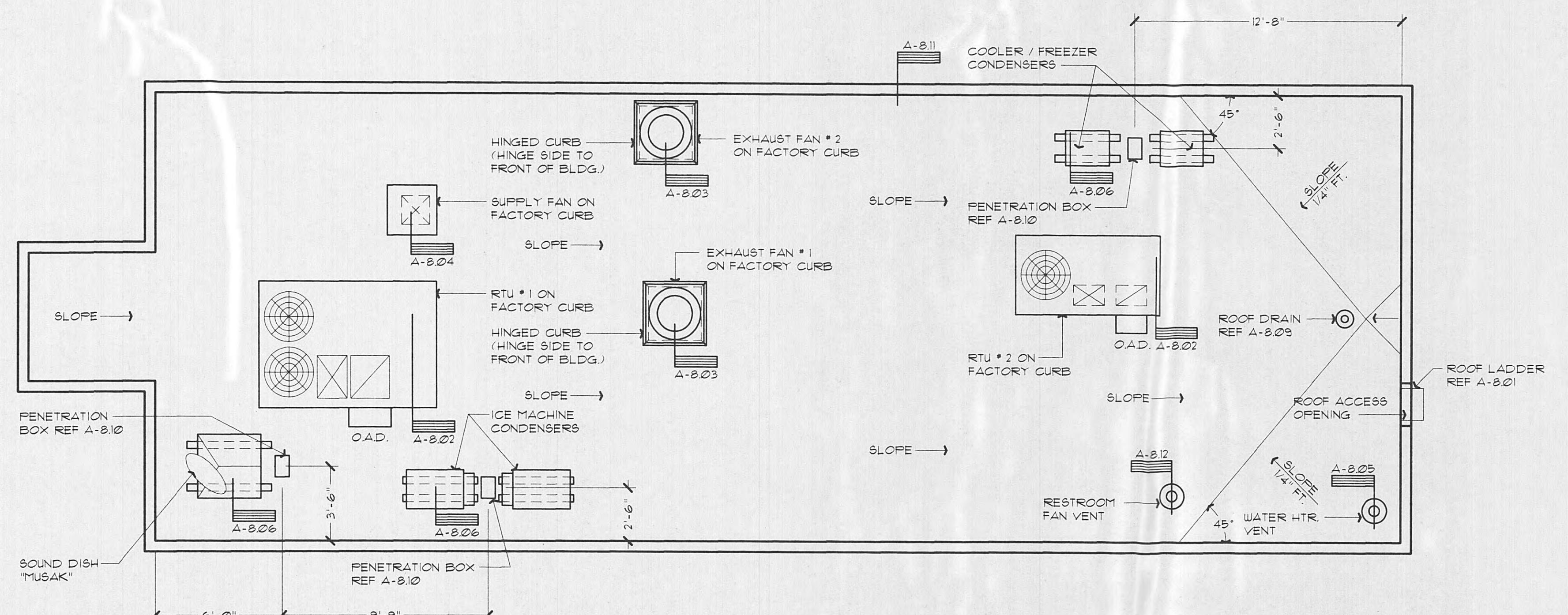
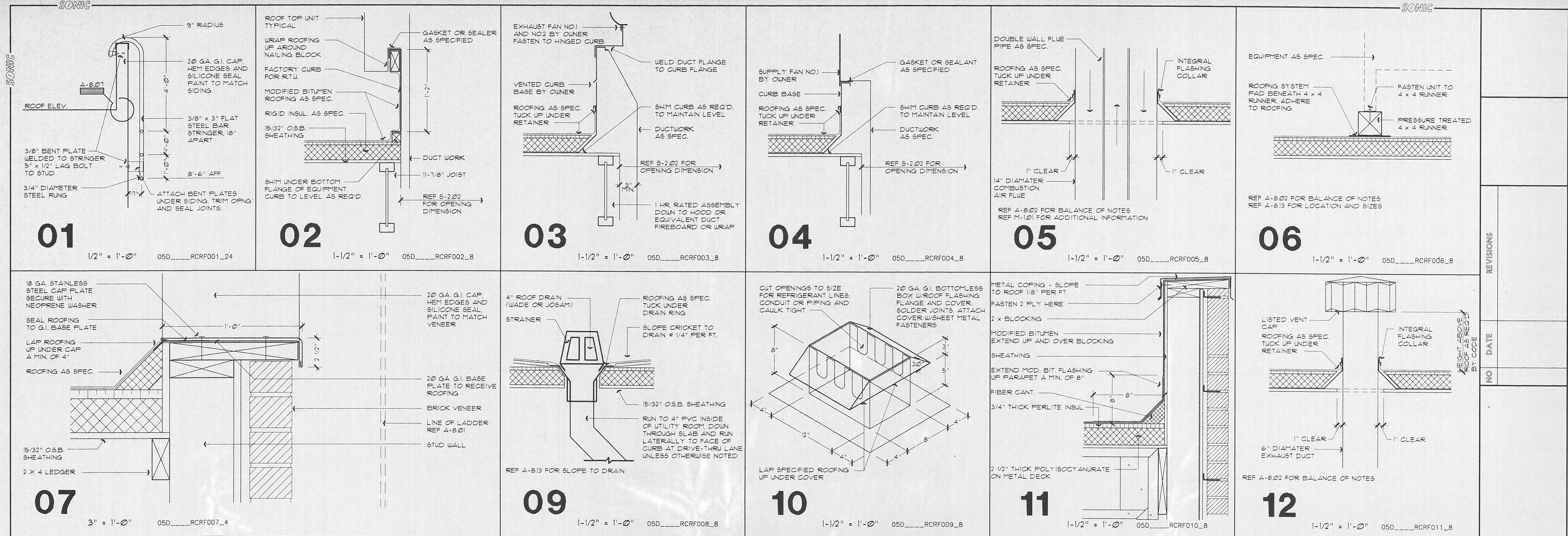
1/4" = 1'-0"

REFERENCE NORTH  
FOR ROOM FINISH  
SCHEDULE ONLY



SONIC

SONIC DRIVE-IN	BUILDING TYPE: 05D RC EDITION: 00	SONIC CORPORATION 101 PARK AVENUE 1302 OKLAHOMA CITY, OK OFFICES: 405-250-1554 FAX: 405-250-1568	SONIC DRIVE-IN TRUST 1988-1998 AMERICA'S DRIVE-IN TRUST THESE DRAWINGS ARE NOT TO BE USED FOR ANY PURPOSE OTHER THAN THE DESIGN AND CONSTRUCTION OF THE SPECIFIC SONIC DRIVE-IN RESTAURANT IDENTIFIED ON THE DRAWINGS. THEY ARE THE PROPERTY OF SONIC CORPORATION AND ARE NOT TO BE COPIED OR REPRODUCED IN WHOLE OR IN PART.
A-7	DWG: 05D RC-A-7.00 DATE: JUNE 01, 1998		

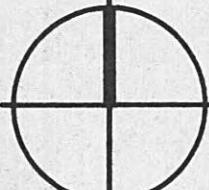


# 13 ROOF PLAN

1/4" = 1'-0"

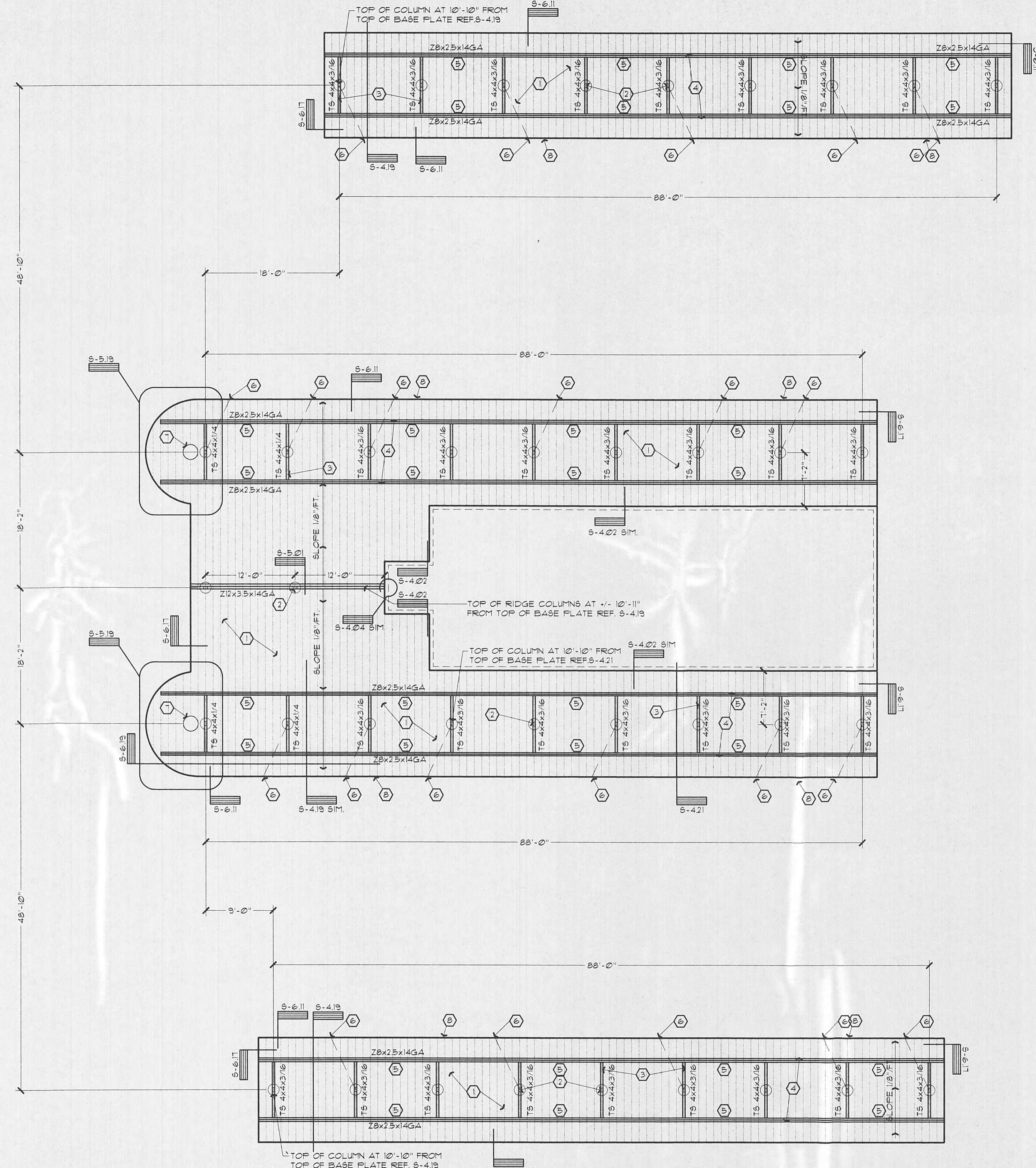
$\frac{1}{4}'' = 1'-0''$

REFERENCE NORTH  
FOR ROOM FINISH  
SCHEDULE ONLY



REF. SITE PLAN  
OR TRUE NORTH

SONIC DRIVE-IN		BUILDING TYPE: 05D ____ RC EDITION: 00	1007 N. ROANE ST. HARRIMAN, TENNESSEE	<b>ROOF DETAILS ROOF PLAN</b>
SHEET				A-8
DWG: 05D ____ RC ____ A-8.00				OF 8
DATE: JUNE 01, 1998				
		<b>SONIC CORPORATION</b> 101 PARK AVENUE OKLAHOMA CITY, OK 73102 OFFICES: 405-280-1654 FAX: 405-280-1568		
<b>COPYRIGHT 1988-1998 AMERICA'S DRIVE-IN TRUST</b> <small>THESE DRAWINGS ARE NOT TO BE USED FOR ANY PURPOSE OTHER THAN BY THE DESIGNATED SONIC DRIVE-IN OWNER FOR CONSTRUCTION OF THE DRIVE-IN AT THE SPECIFIED LOCATION.</small>				



# 01 CANOPY PLAN

1/8" = 1'-0"

(1)	24 GA METAL DECK PANS REF. SP-1 SECTION 05600
(2)	4" x 6" x 3/16" STEEL COLUMNS REF. SP-1 SECTION 05120 AND DETAIL S-4.19
(3)	4" x 4" BEAMS REF. SP-1 SECTION 05120 AND SHEET S-4
(4)	Z8x25x14GA PURLING REF. SP-1 SECTION 05120 + SHEET S-4
(5)	PURLIN SPLICE REF. S-4.05
(6)	2" DIAMETER SCUPPER REF. S-6.11 POSITION BETWEEN STALLS AT ANGLE FROM COLUMN
(7)	PYLON TUBE REF. S-5.03, S-5.19, S-6.19
(8)	CLEARANCE SIGN REF. S-6.03

## ENGINEERING DATA

DESIGNED FOR 30 PSF LIVE LOAD, 110 MPH WIND SPEED  
AND SEISMIC ZONE 2A.

NO	DATE	REVISIONS

NO	DATE	REVISIONS

## NOTES:

CANOPIES ARE TO REMAIN LEVEL WITH BUILDING.  
DO NOT SLOPE CANOPIES WITH GRADE.USE COLUMNS CLOSEST TO BUILDING ELEVATION  
AS BASE POINTS FOR COLUMN HEIGHT. COLUMNS  
CAN INCREASE UP TO 3'-0" IN HEIGHT TO ADJUST  
FOR GRADE VARIATIONS. TOP OF COLUMN PIERS  
WILL ADJUST WITH TOP OF PAVING.IF THE GRADING PLAN REFLECTS A GRADE  
FROM ONE END OF A CANOPY TO THE OTHER  
GREATER THAN 3'-0" THE CONTRACTOR WILL  
NOTIFY THE SONIC A&E DEPT.

SONIC CORPORATION	AMERICAN DRIVE-IN TRUST
AMERICAN DRIVE-IN TRUST	AMERICAN DRIVE-IN TRUST
OKLAHOMA CITY, OK 73122	AMERICAN DRIVE-IN TRUST
OFFICES: 405-262-7854	AMERICAN DRIVE-IN TRUST
FAX: 405-262-7858	AMERICAN DRIVE-IN TRUST

SONIC®	AMERICAN DRIVE-IN TRUST
AMERICAN DRIVE-IN TRUST	AMERICAN DRIVE-IN TRUST
OKLAHOMA CITY, OK 73122	AMERICAN DRIVE-IN TRUST
OFFICES: 405-262-7854	AMERICAN DRIVE-IN TRUST
FAX: 405-262-7858	AMERICAN DRIVE-IN TRUST

SONIC DRIVE-IN	EDITION: 00
BUILDING TYPE: 05D — RC	
1207 N. ROANE ST.	
HARRIMAN, TENN.	

SONIC DRIVE-IN	EDITION: 00
BUILDING TYPE: 05D — RC	
1207 N. ROANE ST.	
HARRIMAN, TENN.	

SHEET	S-1
OF	6
DWG:	CP1998TNHR01
DATE:	NOVEMBER 09, 1998

SHEET	S-1
OF	6
DWG:	CP1998TNHR01
DATE:	NOVEMBER 09, 1998

SHEET	S-1
OF	6
DWG:	CP1998TNHR01

SHEET	S-1
OF	6
DWG:	CP1998TNHR01

SHEET	S-1
OF	6
DWG:	CP1998TNHR01

SHEET	S-1
OF	6
DWG:	CP1998TNHR01

SHEET	S-1
OF	6
DWG:	CP1998TNHR01

SHEET	S-1
OF	6
DWG:	CP1998TNHR01

SHEET	S-1
OF	6
DWG:	CP1998TNHR01

SHEET	S-1
OF	6
DWG:	CP1998TNHR01

SHEET	S-1
OF	6
DWG:	CP1998TNHR01

SHEET	S-1
OF	6
DWG:	CP1998TNHR01

SHEET	S-1
OF	6
DWG:	CP1998TNHR01

SHEET	S-1
OF	6
DWG:	CP1998TNHR01

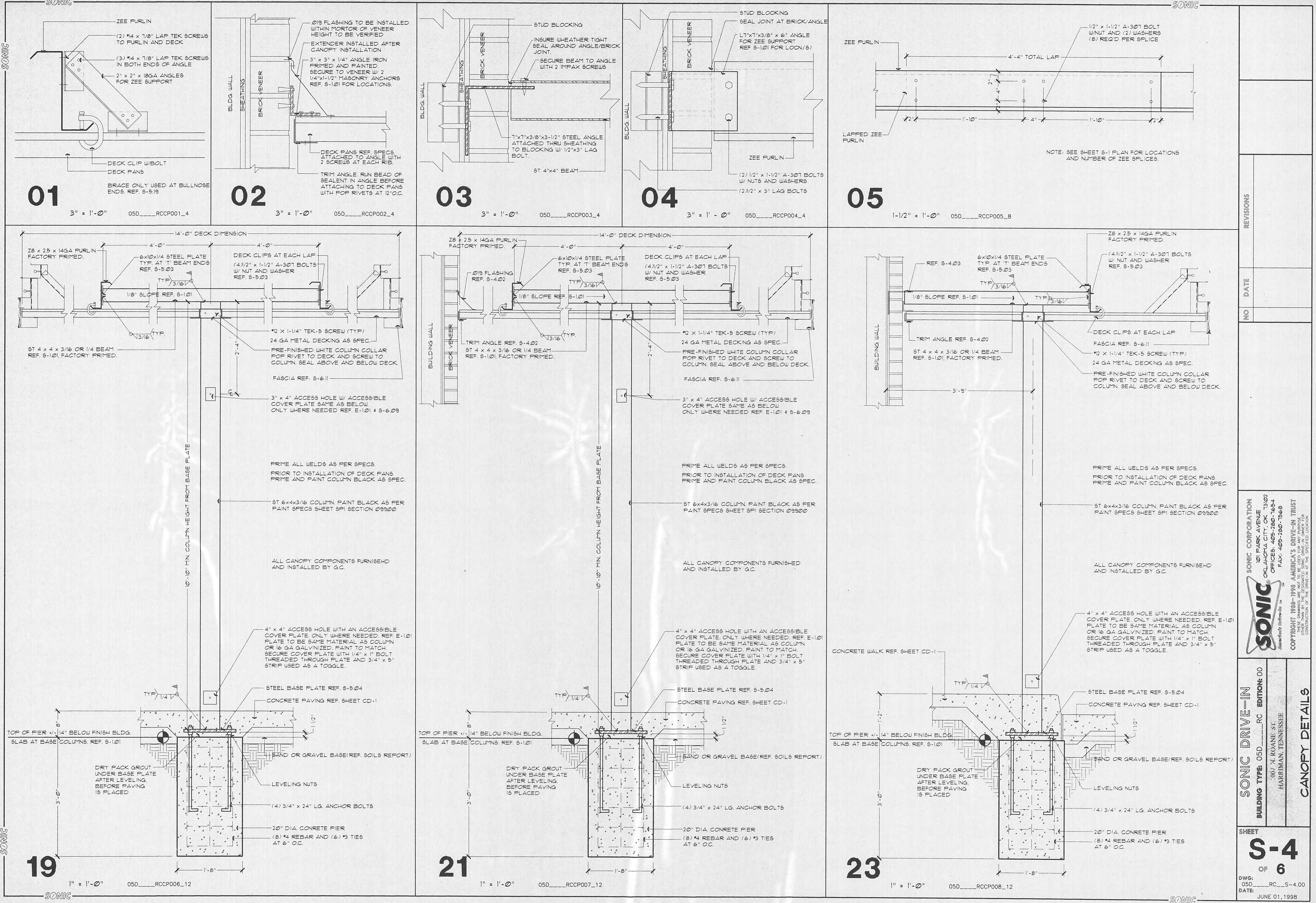
SHEET	S-1
OF	6
DWG:	CP1998TNHR01

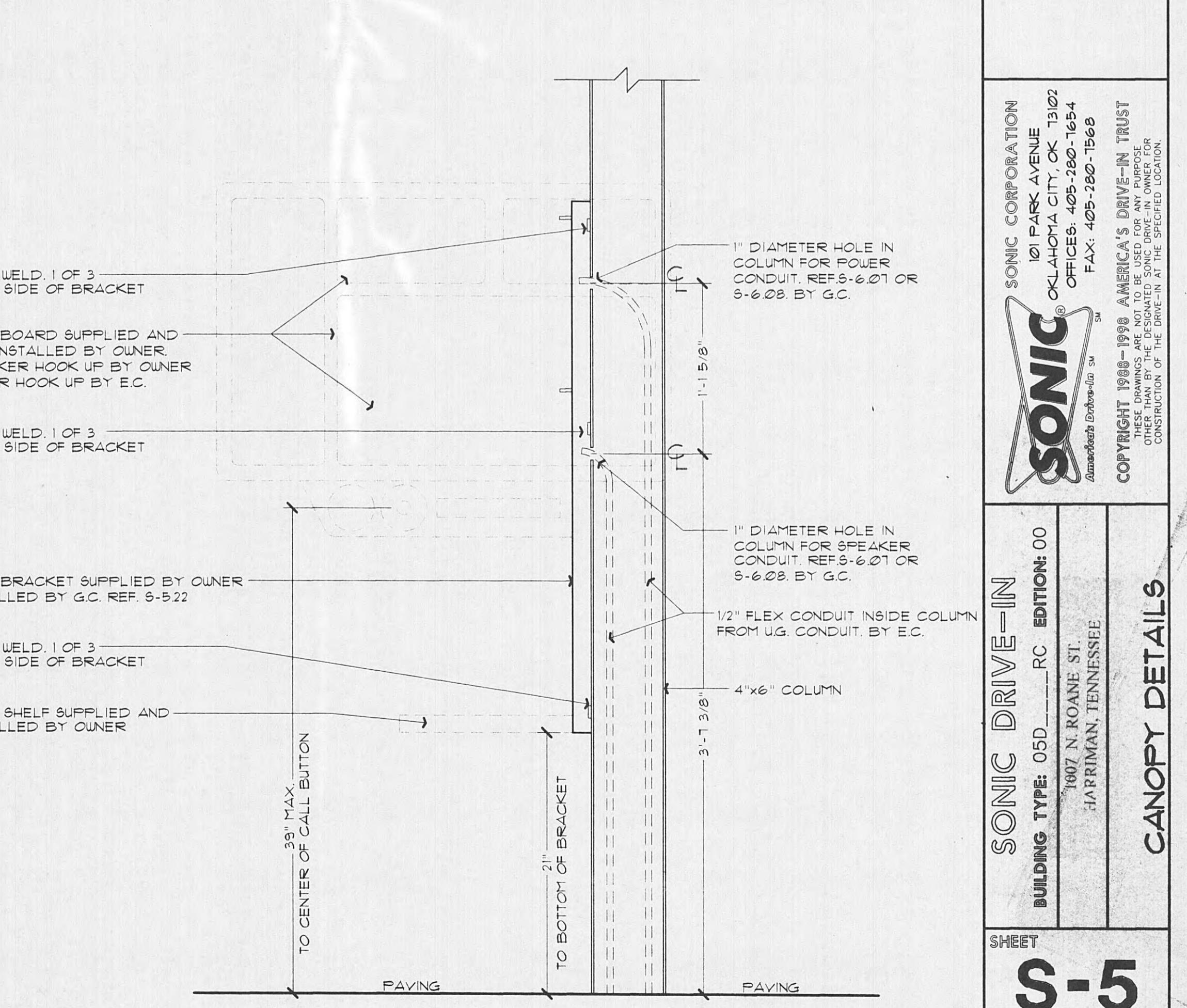
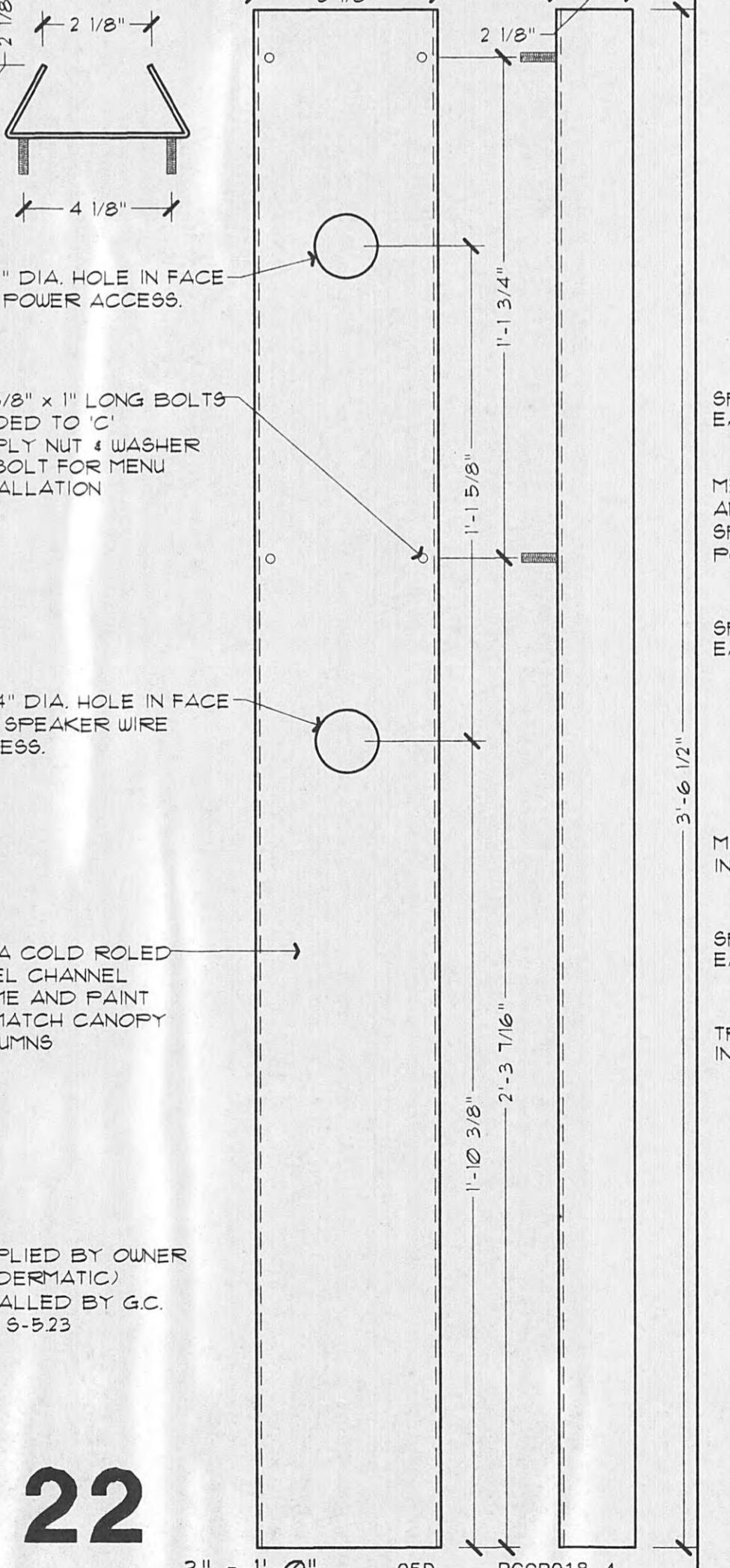
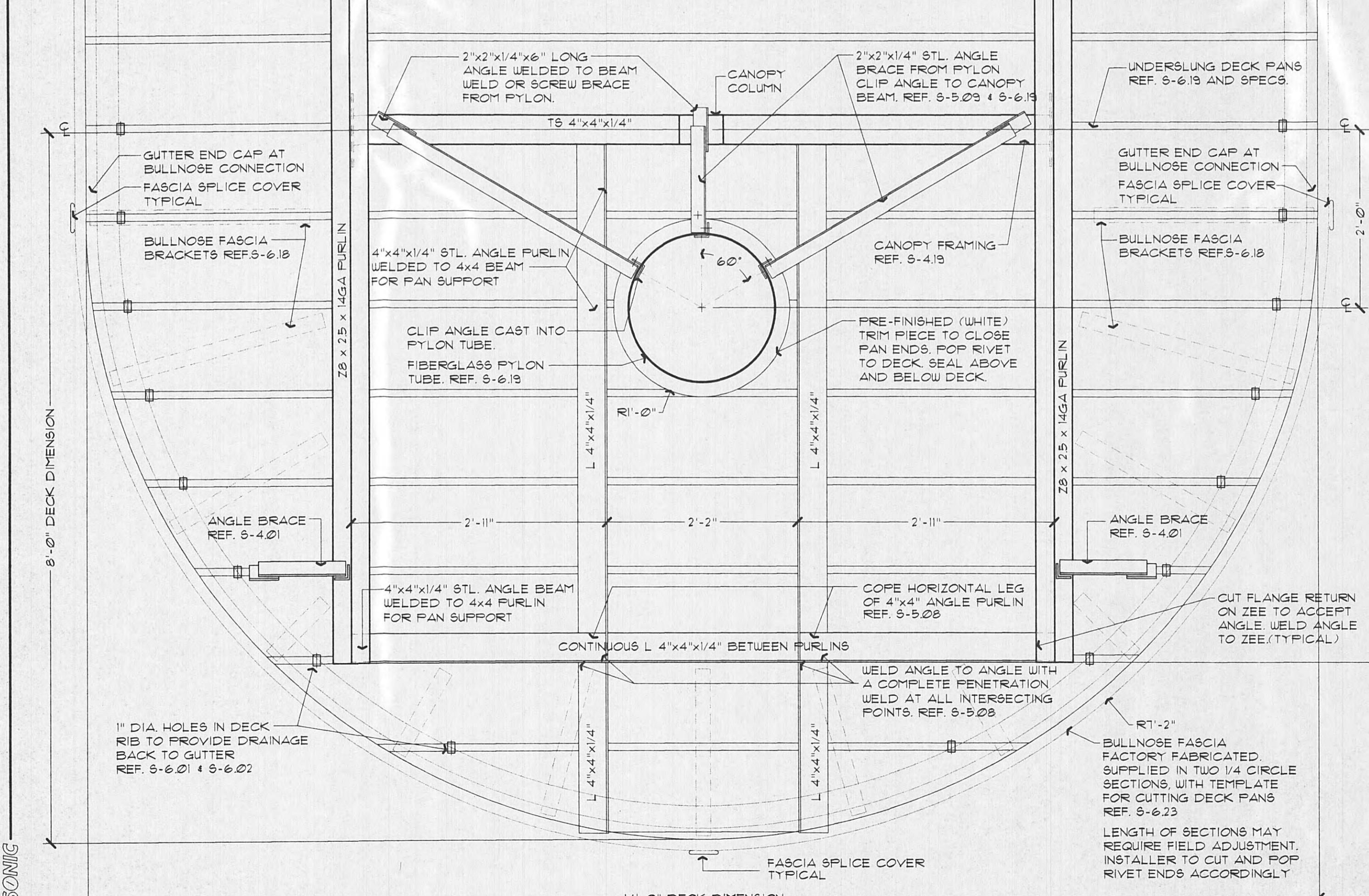
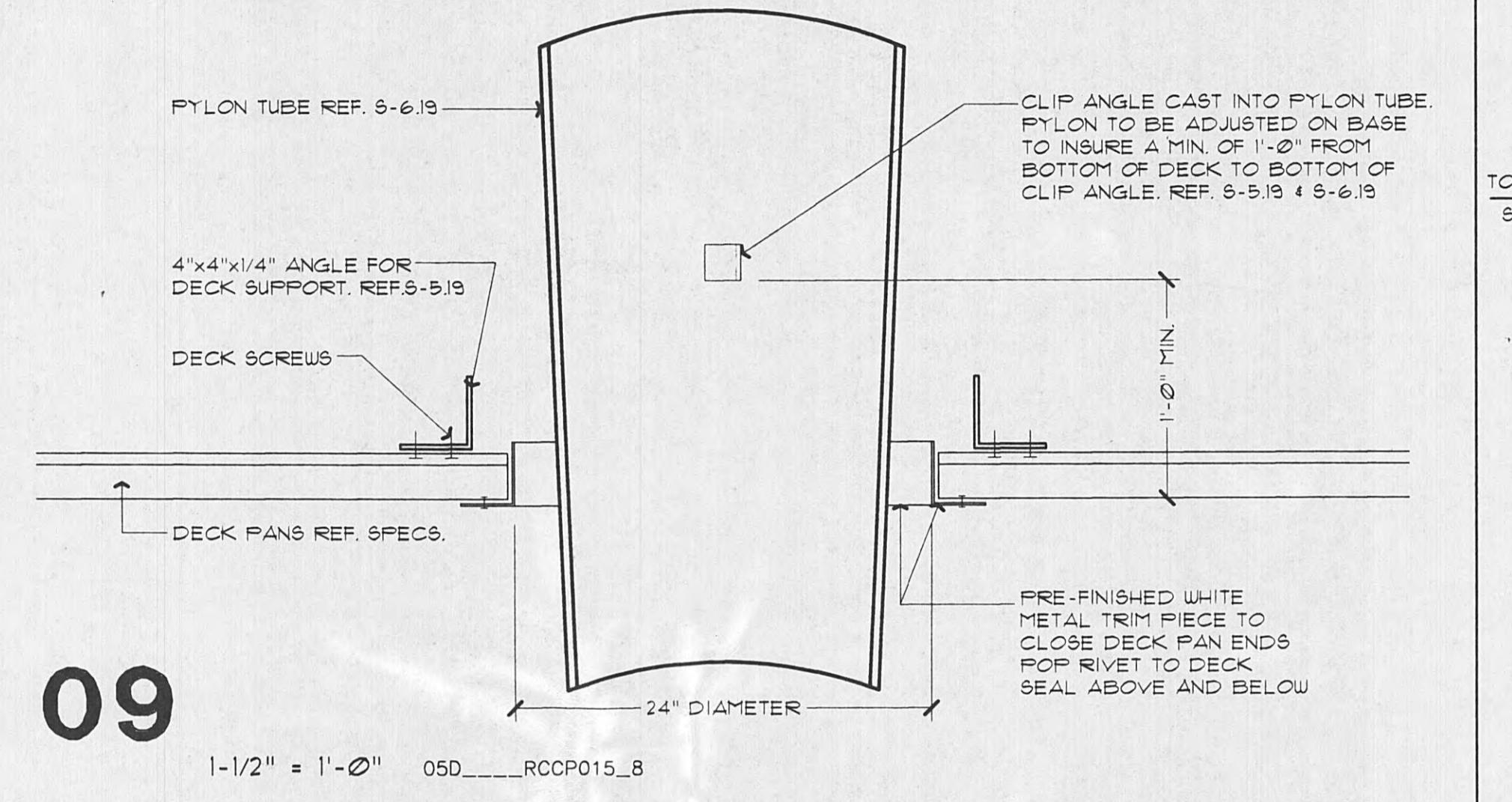
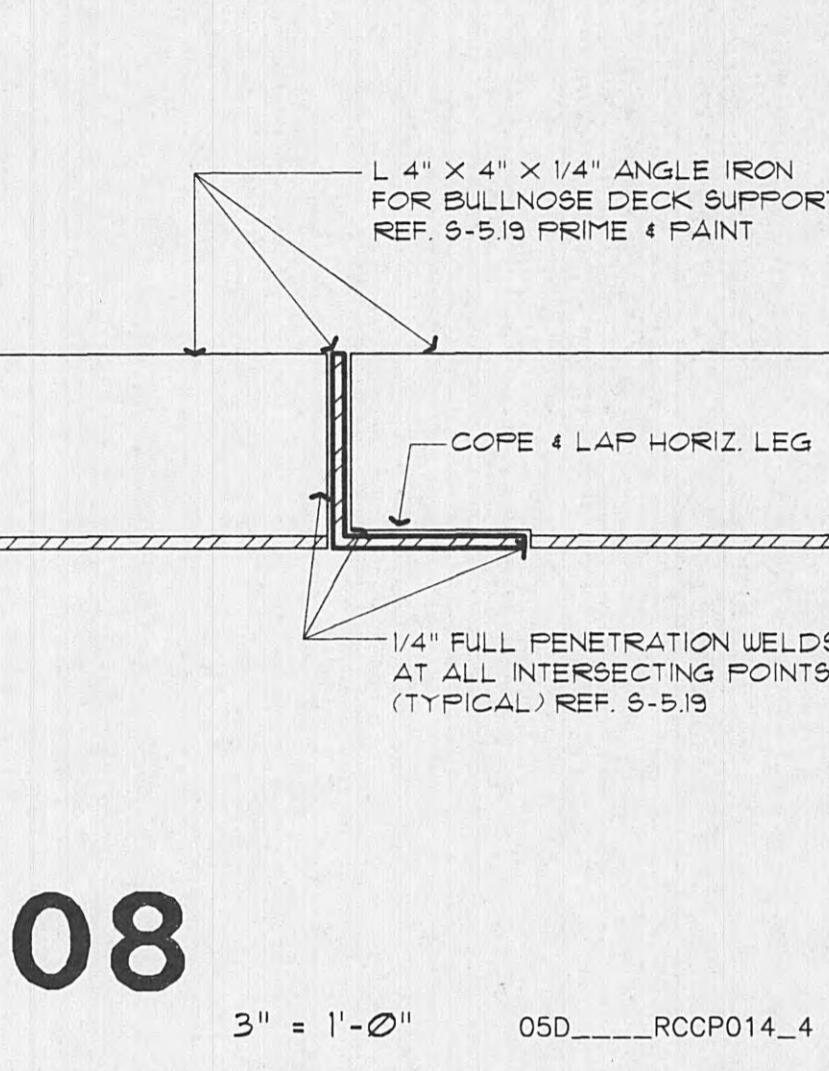
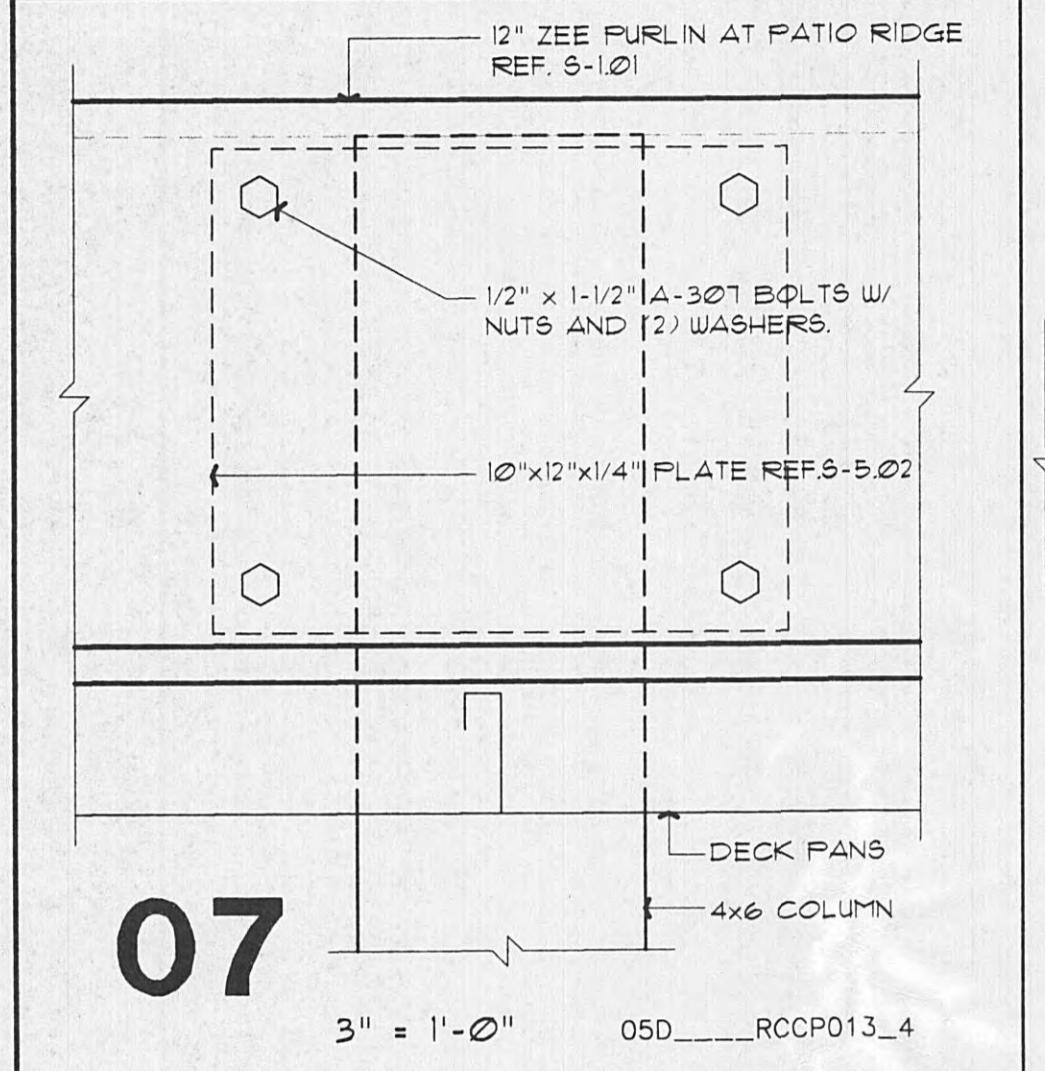
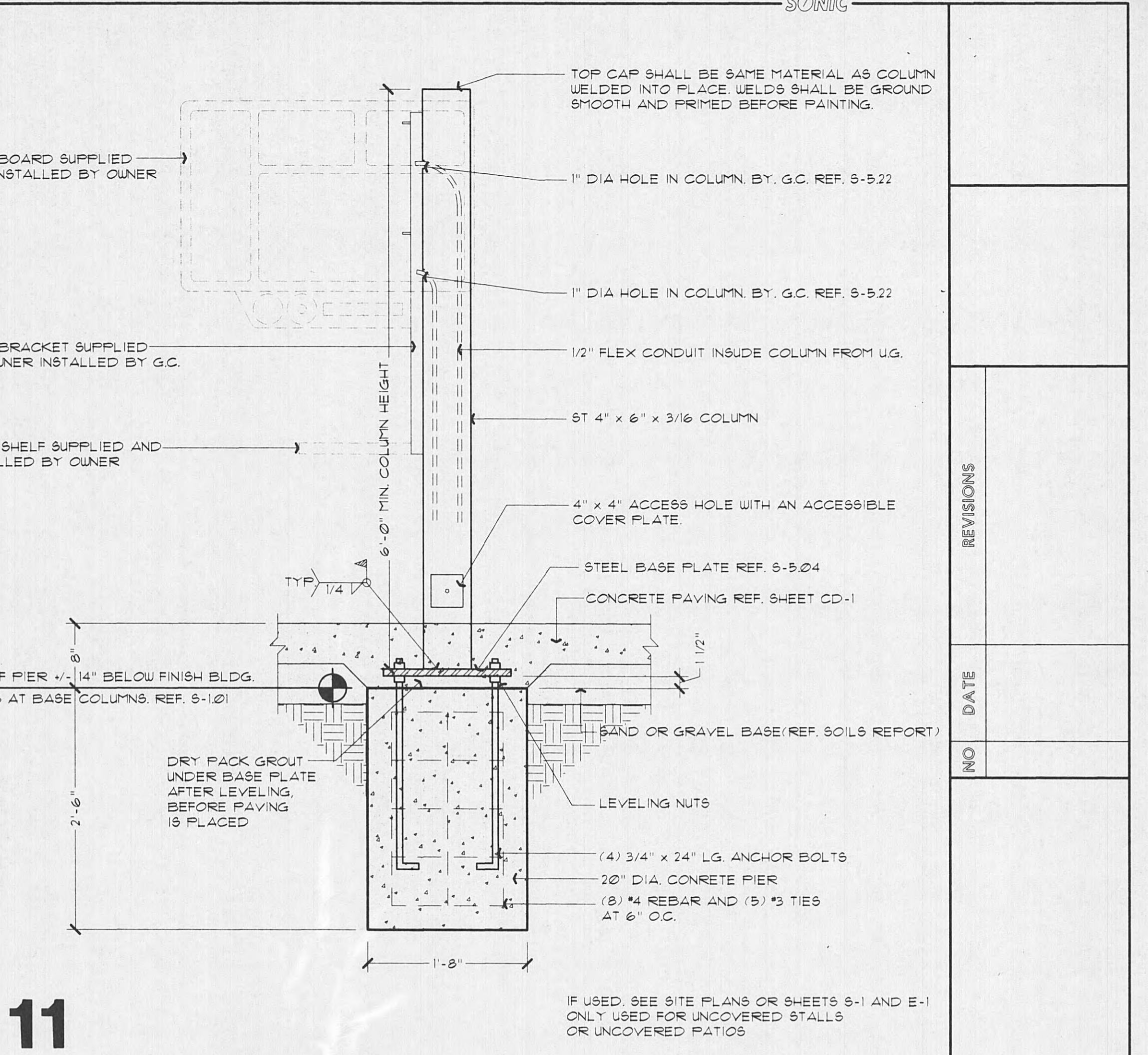
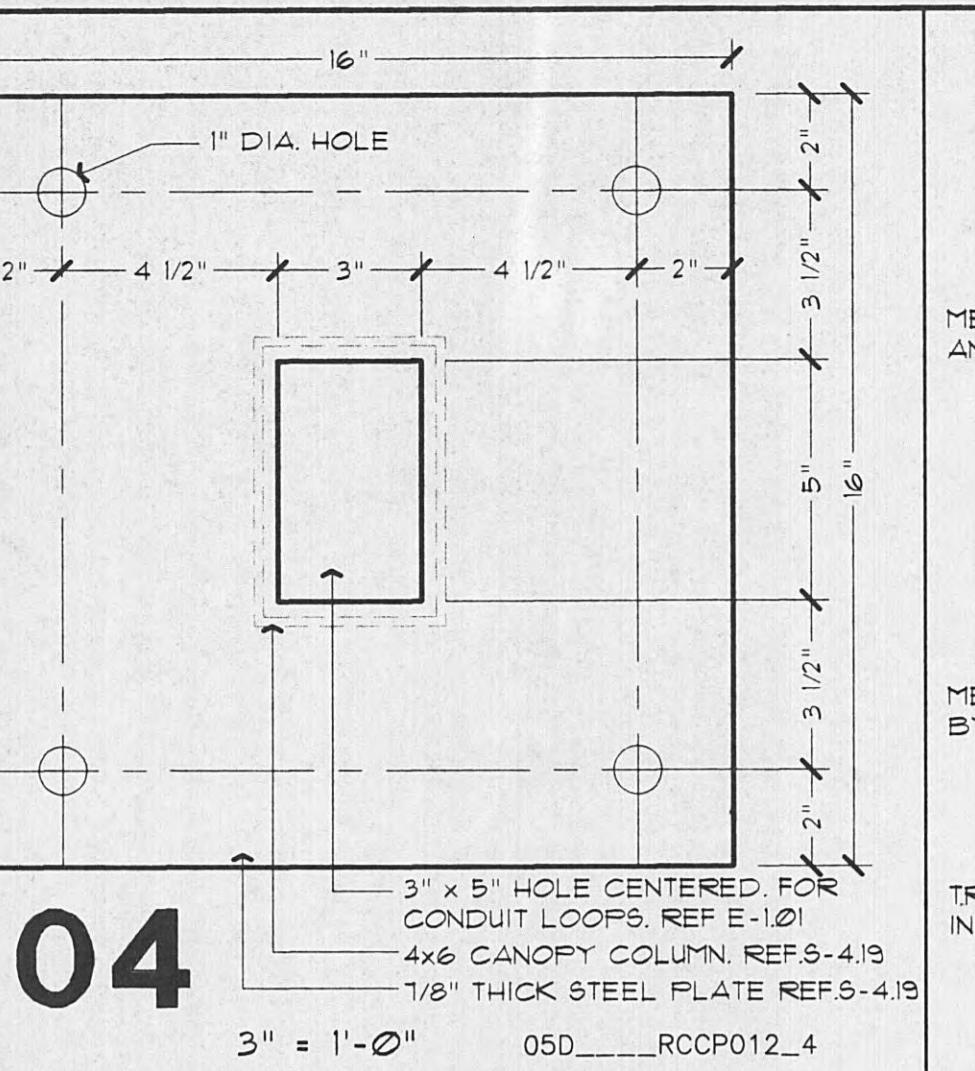
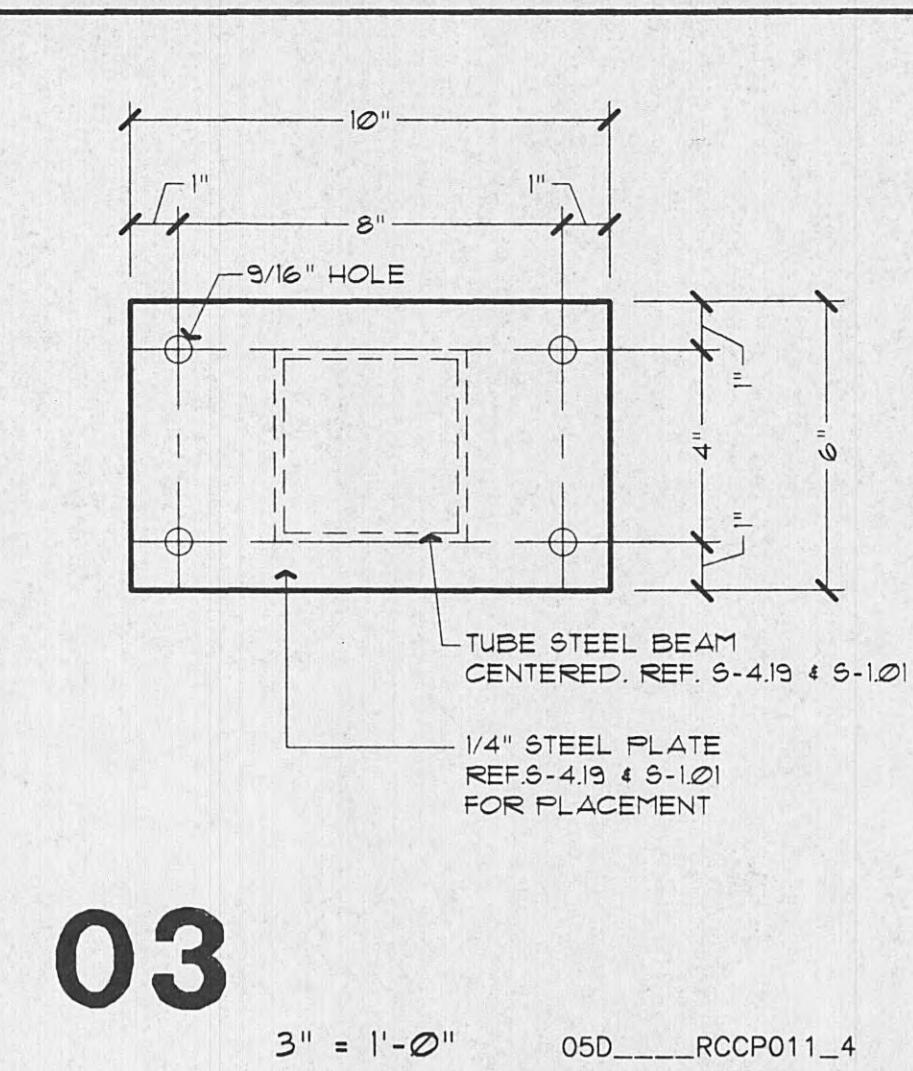
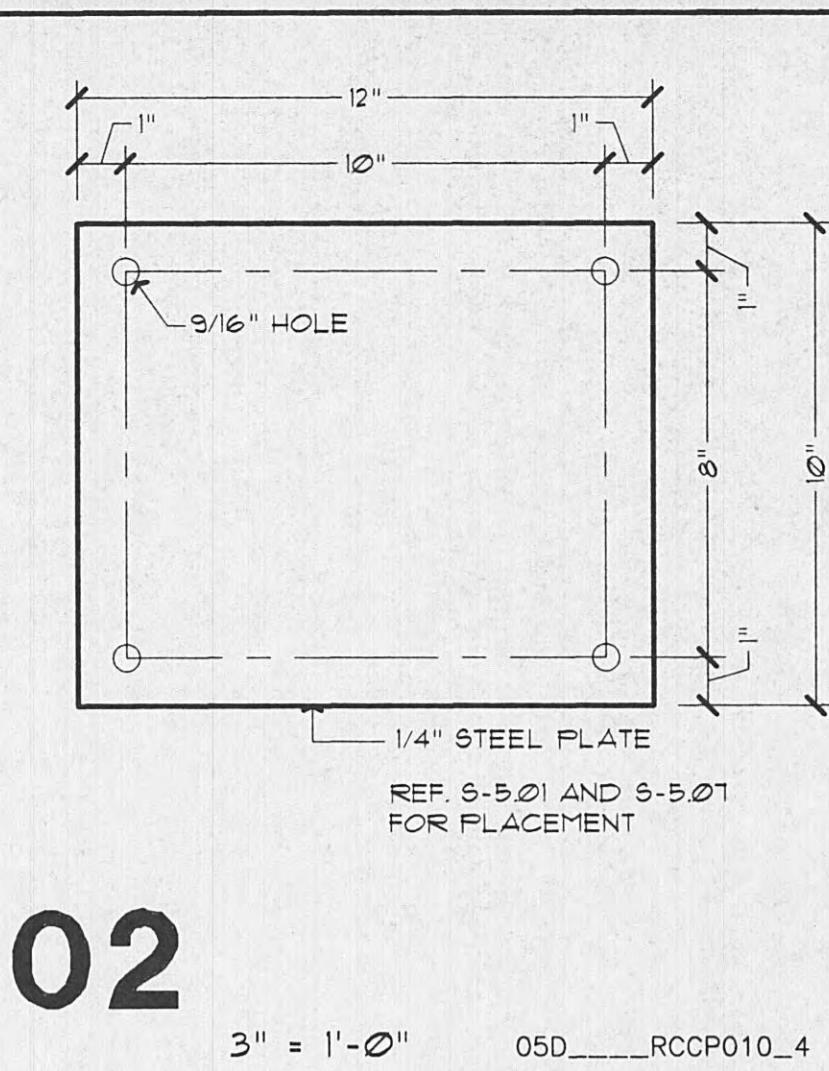
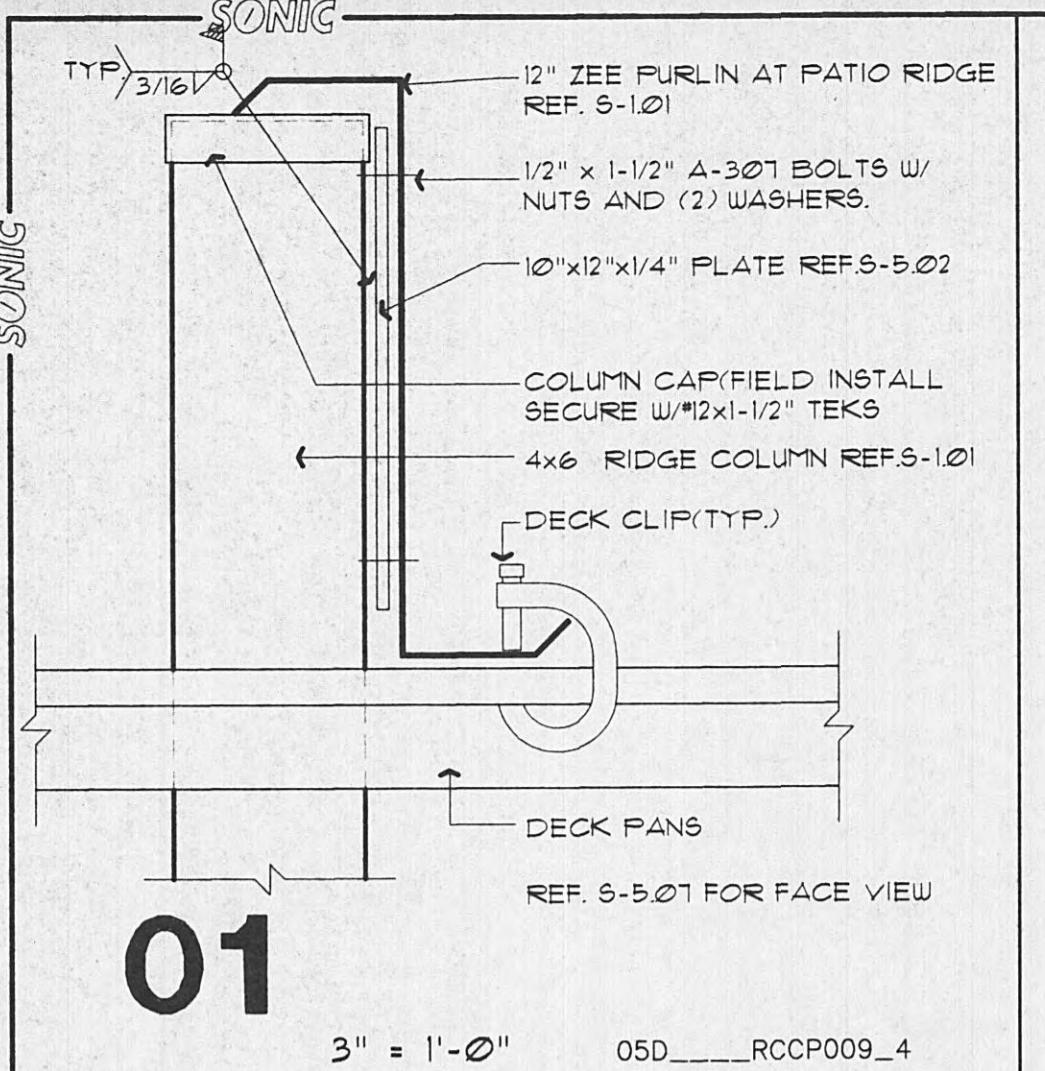
SHEET	S-1
OF	6
DWG:	CP1998TNHR01

SHEET	S-1
OF	6
DWG:	CP1998TNHR01







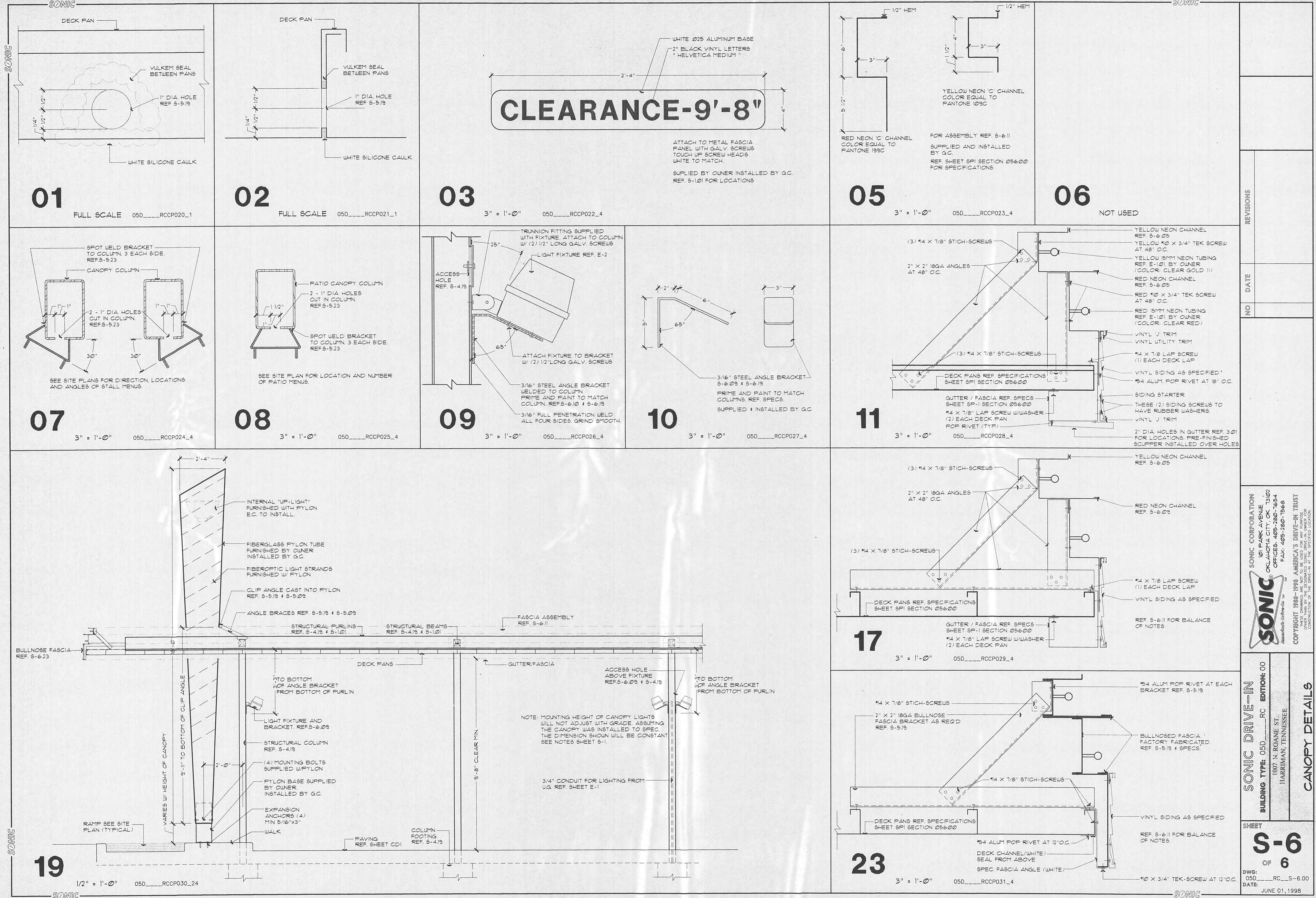


**SONIC CORPORATION**  
10 PARK AVENUE  
OKLAHOMA CITY, OK  
OFFICES: 405-280-1622  
FAX: 405-280-1568  
Amendments Reference in Av.

**SONIC**  
1988-1990 AMERICA'S DRIVE-IN TRUST  
These drawings are not to be used for any purpose  
other than by those designated to be used in connection  
with the construction of the Drive-In Trust.

**SONIC DRIVE-IN**  
BUILDING TYPE: 05D RC EDITION: 00  
7607 N. ROANE ST.  
MURKIN, TENNESSEE

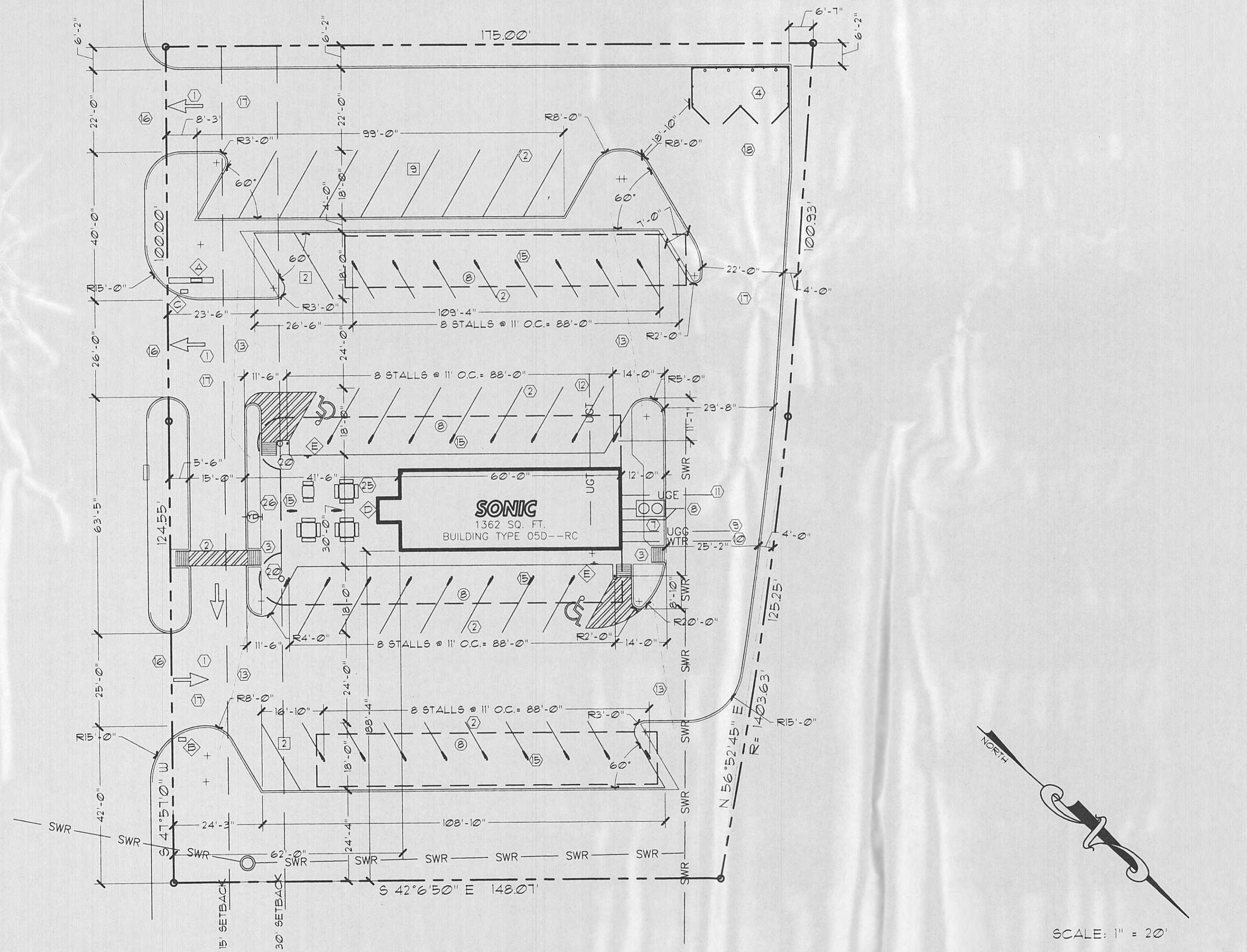
**SHEET**  
**S-5**  
OF 6  
DWG: 05D\_RC\_S-5.00  
DATE: JUNE 01, 1998  
**SONIC**



C:\CAD\document\b1dg\_05\05d\_rc.00\dwgss\05D\_RC\_S-6.00.dwg Mon Jun 15 11:41:32 1998



1007 N. ROANE ST.

**SITE PLAN KEYNOTES**

ITEM	NOTE
(1)	TRAFFIC FLOW ARROW (TYPICAL), REF: CD1.17
(2)	4" PAINTED STRIPES (TYPICAL), REF: SPECIFICATIONS, SECTION 02500, SHEET SP1
(3)	CURB RAMP (TYPICAL), REF: CD1.03
(4)	TRASH ENCLOSURE, REF: CD2.02
(5)	RAILING, REF: CD2.02
(6)	BOLLARD, REF: CD2.02
(7)	GREASE TRAP, REF: P2.02
(8)	4" SANITARY SEWER LINE
(9)	2" UNDERGROUND GAS LINE
(10)	1-1/4" UNDERGROUND WATER LINE
(11)	UNDERGROUND ELECTRIC LINE
(12)	2" UNDERGROUND TELEPHONE LINE
(13)	4" PVC PIPE SLEEVE UNDER DRIVE FOR IRRIGATION SYSTEM
(14)	ORDER BOARD AND DETECTOR LOOP, REF: CD1.15 and CD1.19
(15)	MENU / CANOPY POST (TYPICAL), REF: SS1.03
(16)	CONCRETE DRIVE BUILD IN ACCORDANCE WITH CITY AND OR STATE SPECIFICATIONS
(17)	3000 PSI. CONCRETE PAVING
(18)	8" THICK, 4000 PSI. CONCRETE PAVING IN THIS AREA
(19)	"HOP" THRU SIGNAGE, REF: CD2.21
(20)	RED PYLON TUBE, REF: 8-6.13
(21)	POLE MOUNTED FLOOD LIGHTS, REF: SCHED. SHEET E-2
(22)	ASPHALT PAVING REF. DETAILS ON CIVIL SHEETS
(23)	CONC. CURE & GUTTER, REF. DETAILS ON CIVIL SHEETS
(24)	CONC. WALKS AND PATIO, REF. DETAILS SHEET CD-1
(25)	TABLES SHALL BE MODEL #T38NSQ (2 SEAT) OR #T46NSG (4 SEAT) BY METAL FABRICATORS, INC.
(26)	TABLES SHALL BE SECURELY FASTENED TO CONCRETE WITH ANCHOR BOLTS PER MANUFACTURER'S Specs.
(27)	3/4" YARD HYDRANT OFF IRRIGATION LINE SUPPLIED AND INSTALLED BY PLUMBING CONTRACTOR

SIGN SCHEDULE			
ITEM	QTY.	REFERENCE	SIGN TYPE
(A)	1	CD2.10	PYLON SIGN
(B)	1	CD2.01	ENTER SIGN
(C)	1	CD2.01	EXIT SIGN
(D)	1	A2.01	SIGN ON BLDG.
(E)	2	CD2.19	HANDICAPPED PARKING SIGN

**SONIC DRIVE-IN**  
BUILDING TYPE: 05D-RC  
EDITION: 00  
Hwy 21 (Roane St.)  
Harriman, Tennessee  
**DIMENSION SITE PLAN**

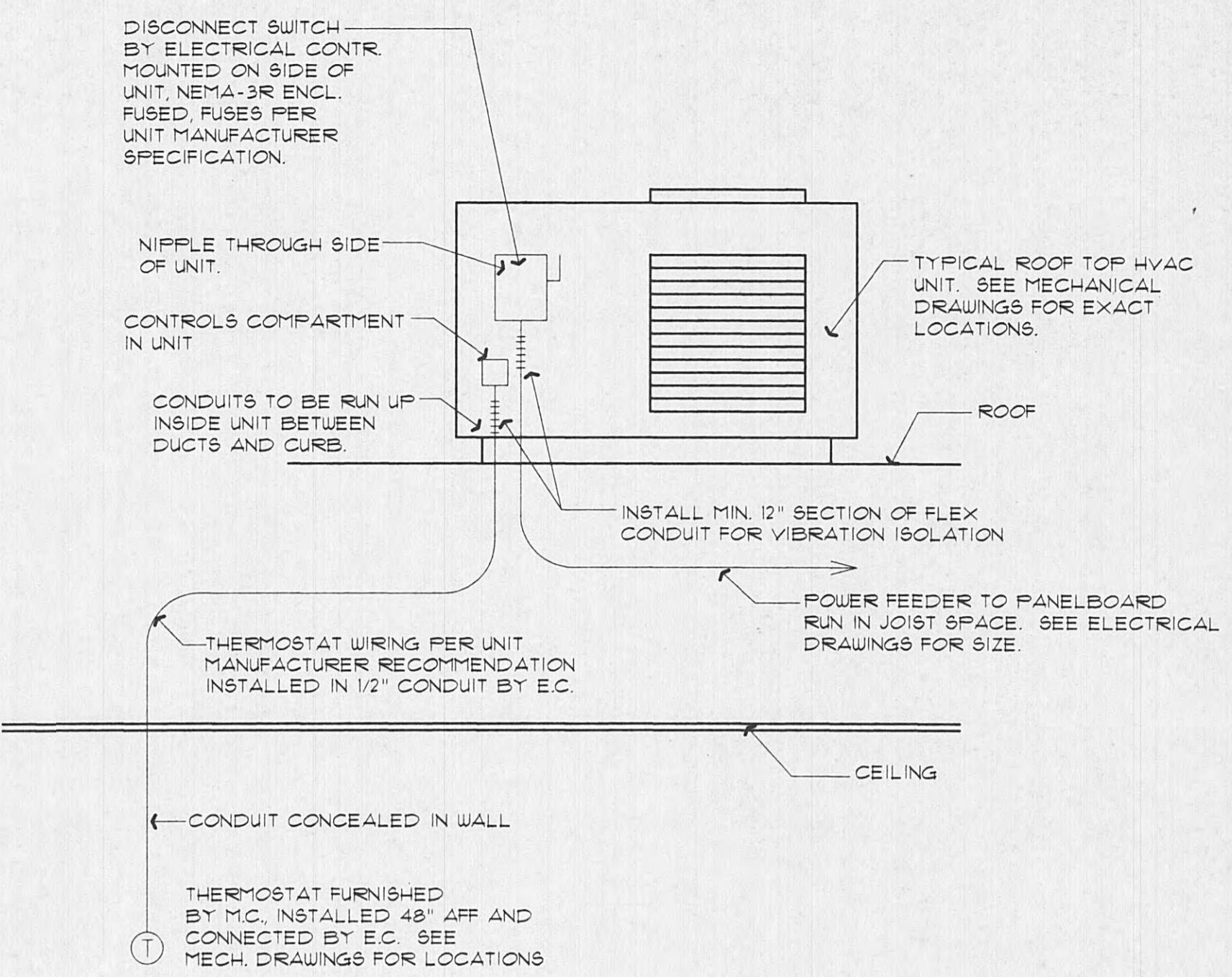
**C-2**  
DWG: SP1998TNHR01  
DATE: NOVEMBER 09, 1998

NO	DATE	REVISONS

**GENERAL NOTES:**

- ALL DIMENSIONS AT CURBS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- PROPOSED UTILITIES ARE SHOWN IN SCHEMATIC ONLY. EXACT LOCATIONS SHALL BE DETERMINED TO ALLOW FOR THE MOST ECONOMICAL AND PRACTICAL INSTALLATION.
- THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO DETERMINE EXACT POINT OF SERVICE CONNECTION AT EXISTING UTILITIES. REFER TO THE BUILDING ELECTRICAL AND PLUMBING DRAWINGS FOR UTILITY SERVICE ENTRANCE LOCATIONS, SIZES AND CIRCUITING.
- LOCATIONS OF PYLON / MONUMENT SIGNS AND ENTER / EXIT SIGNS ARE NOT EXACT. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS WITH OWNER / CONSTRUCTION MANAGER.
- ALL LANDSCAPE AREAS SHALL BE ROUGH GRADED TO 6" BELOW TOP OF ALL WALKS AND CURBS. TOP SOIL TO BE ADDED TO THE LEVEL OF THE WALKS OR CURBS.

SONIC	SONIC
10 PARK AVENUE	10 PARK AVENUE
OKLAHOMA CITY, OK	OKLAHOMA CITY, OK
OFFICES: 405-736-5444	OFFICES: 405-736-5444
FAX: 405-232-7588	FAX: 405-232-7588



**01** TYP. ROOF TOP MTD. HVAC UNIT ELEC. CONN. DETAIL  
NO SCALE.

NO SCALE

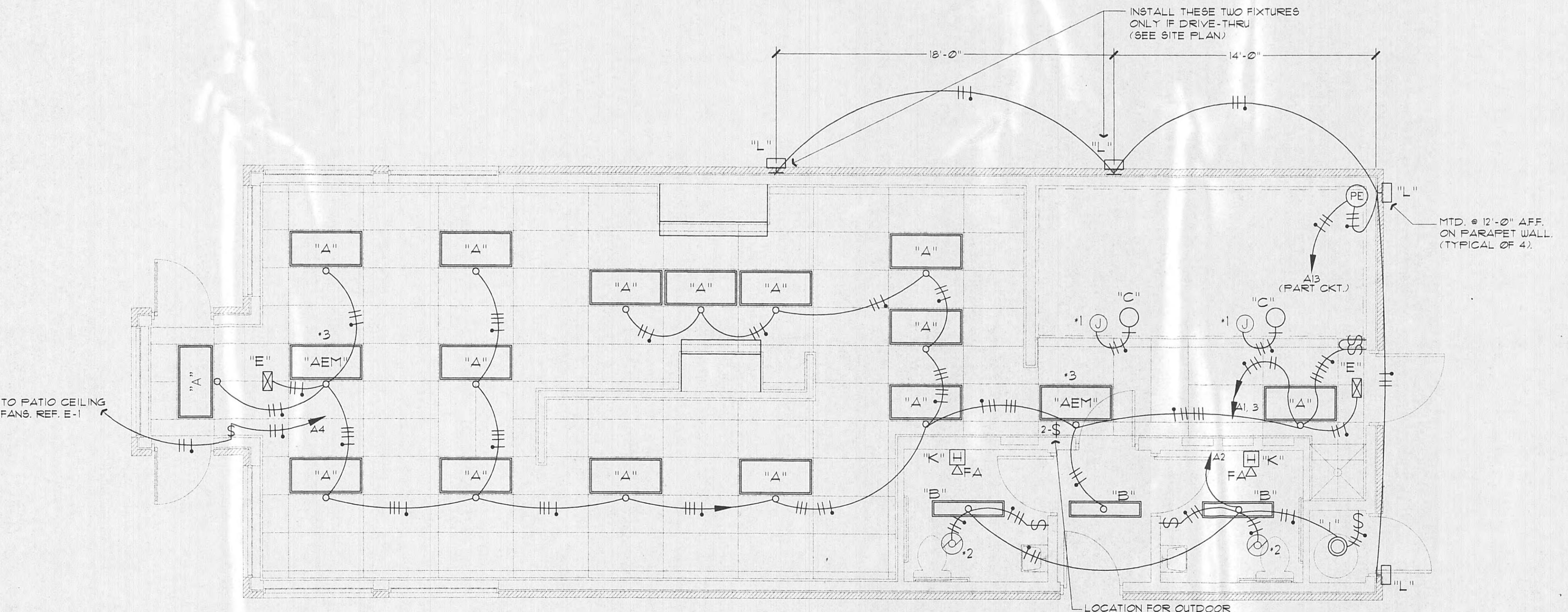
# LIGHTING FIXTURE SCHEDULE

Type	Description	Mounting	Lamps
"A"	2X4 TROFFER WITH ACRYLIC LENS METALUX #2G-440A19-120V.-LE3	RECESSED	4-F32T8
"B"	1 X 4 WRAPAROUND METALUX #WS-240A-120V.-LE3	SURFACE	2-F32T8
"C"	VAPOR PROOF LIGHT BY OWNER THERMO-KOOL PROVIDED W/ BOX	SURFACE	1-100W
"D"	DELETED		
"E"	SINGLE FACE EXIT SIGN WITH BATTERY SURE-LITES #VRX-7170-00-RW	UNIVERSAL	LED W/ UNIT
"F"	2 LT. 4 FT. ALUM. STRIP WITH Ø° BALLAST NULITE #AL-248HO-DL	SURFACE	2-F48 H.O. DAYBRIGHT
"G"	CANOPY FLOOD LIGHT LUMARK # MHTF-175H-DT-MED-LL-120V	SURFACE	1-175W M.H.
"H"	WIDE SPREAD FLOOD LIGHT LUMARK #MHWR-65T-175-120V	SURFACE	1-175W M.H. MOGUL
"I"	PORCELAIN LAMPHOLDER W/ WIRE GUARD G.E. #5140-7	SURFACE	1-100 W.
"J"	POLE MOUNTED FLOOD LIGHT & POLE LUMARK #MHWR-65S-250-120V / SSS4A25SFM2XG (IF USED, SEE SITE PLAN)	SURFACE	1-250W M.H. MOGUL
"K"	FIRE ALARM AUDIBLE/VISIBLE DEVICE SIMPLEX 4903-9215 w/ #2098-9734 POWER SUPPLY	WALL	STROBE
"L"	WALL MOUNTED FLOOD LIGHT LUMARK # MHWL-175-W-L-120V	WALL	1-175W M.H. MOGUL

## LECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
□	FLUORESCENT LIGHTING FIXTURE, RECESSED MOUNTED.
□○	FLUORESCENT LIGHTING FIXTURE, SURFACE OR SUSPENDED.
○ □ ○	INCANDESCENT AND HID LIGHTING FIXTURES, CLG. & WALL MTD.
□	FLOOD LIGHTING UNIT.
☒	EXIT SIGN, DIRECTIONAL ARROWS INDICATED.
	STRIP FLUORESCENT LIGHTING UNIT, SURFACE OR SUSPENDED.
(J)	JUNCTION OR PULL BOX.
⊖	DUPLEX RECEPTACLE, MOUNTED 24" UP UNLESS NOTED OTHERWISE.
⊕	QUAD RECEPTACLE. TWO DUPLEX RECEPTACLES GANG MOUNTED.
⊖	DUPLEX RECEPTACLE ON EMERGENCY POWER SYSTEM.
GFI ⊖	GROUND FAULT INTERRUPTING RECEPTACLE.
WP ⊖	WEATHER PROOF GROUND FAULT INTERRUPTING RECEPTACLE.
⊖	POLARIZED THREE OR FOUR WIRE RECEPTACLE, RATING NOTED. SINGLE RECEPTACLE IN HANDY BOX MOUNTED ON CONDUIT STUB.
⊖	DUPLEX RECEPTACLE IN HANDY BOX MOUNTED ON CONDUIT STUB.
⊖	POLARIZED THREE OR FOUR WIRE RECEPTACLE, RATING NOTED.
⊖	CEILING MOUNTED DUPLEX RECEPTACLE
⊖	CEILING MOUNTED QUAD RECEPTACLE. TWO DUPLEX GANG MOUNTED
\$	SINGLE POLE SWITCH MOUNTED 48" UP UNLESS NOTED OTHERWISE.
\$ <sub>2</sub> \$ <sub>3</sub> \$ <sub>4</sub>	TWO POLE, THREE WAY, FOUR WAY SWITCHES MTD. 48" UP.
\$ <sub>K</sub> \$ <sub>P</sub>	KEY OPERATED SWITCH, PILOT LIGHT SWITCH, MTD. 48" UP.
2-\$	NUMBER DENOTES SINGLE POLE SWITCHES GANG MOUNTED.
▼	TELEPHONE OUTLET MTD. 24" UP.
▽	DATA OUTLET FOR P.O.S. SYSTEM. EMPTY 2x4 BOX W/ 3/4" CONDUIT TO ABOVE CEILING, WIRING BY OTHERS. SUPPLY S.S. COVER PLATE
(TS) (PE)	TIME SWITCH, PHOTO-ELECTRIC SWITCH.
\$ <sub>M</sub>	MANUAL MOTOR STARTER-DISCONNECT SWITCH.
□	MOTOR DISCONNECT OR FUSED SAFETY SWITCH.
(M)	MOTOR.
— —	ELECTRICAL PANELBOARDS, SURFACE AND FLUSH MOUNTED.
→ #	120 OR 277V CIRCUIT HOME RUN TO PANEL. LINE, NEUT., GND.
→ # <sub>10</sub>	480, 240, 208V CIRCUIT HOME RUN TO PANEL, WIRE SIZE NOTED.
— # —	CONDUIT CONCEALED IN WALLS OR ABOVE CEILING.
— # —	CONDUIT CONCEALED IN OR UNDER FLOOR.
WP	DENOTES "WEATHER PROOF".
GC MC EC	DENOTES "GENERAL, MECHANICAL, & ELECTRICAL CONTRACTORS".
EM	DENOTES LIGHTING FIXTURE ON EMERGENCY POWER CIRCUIT.
*1.	PLAN NOTE. REFER TO NOTATION ON PLANS.
[F]	FIRE ALARM MANUAL PULL STATION.
(SD)	SMOKE DETECTOR.
☒ <sup>FA</sup>	FIRE ALARM AUDIO/VISUAL ALARM DEVICE.

NOTE: ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.



NOTE: FOR CANOPY & REMAINDER OF EXTERIOR LIGHTING, REF. SHEET "E-1".

\*SHEET "E-2" NOTES.

- \*1. ELEC. CONNECTION FOR FREEZER LIGHT, HEATER, ETC.
  - \*2. CEILING MOUNTED EXHAUST FAN: 120V., 1PH., 1/10 HP.  
FURNISHED BY M.C., INSTALLED BY E.C.
  - \*3. THIS LIGHTING FIXTURE SHALL BE NON-SWITCHED "NIGHT-LIGHT".

E: REFER TO DIVISION 16 ELECTRICAL SPECIFICATIONS  
(SHEET SP2) FOR ADDITIONAL INFORMATION.

DWG:  
05D\_\_\_\_\_RC3GE-2.00  
DATE:

**SONIC**<sup>®</sup>  
America's Drive-In<sup>SM</sup>

# **SONIC DRIVE-IN**

**BUILDING TYPE: 05D    RC EDITION: 00**

**1007 N. ROANE ST.  
HARRIMAN, TENNESSEE**

# **LIGHTING PLAN, DETAILS ELECTRICAL SCHEDULES**

**SHEET**  
**E-2**  
OF 3  
**DWG:** 05D\_\_\_\_\_RC3GE-2.00  
**DATE:**

## ELECTRICAL LOAD ANALYSIS

LOAD DESCRIPTION	AMPS AT 208V 3 PHASE			
	ΦA	ΦB	ΦC	ΦN
LIGHTING (INTERIOR)	106	106	106	106
LIGHTING (EXTERIOR)	91.7	91.7	91.7	91.7
KITCHEN EQUIPMENT	133	133	133	133
ICE CREAM MACHINE: 13.0 KW	36.5	36.5	36.5	---
FANS	9.6	9.6	9.6	9.6
COOLING: 23.7 KW	65.8	65.8	65.8	---
MISC. EQUIP. AND POWER	37.5	37.5	37.5	37.5
25% LARGEST MOTOR	10.1	10.1	10.1	---
TOTAL CONNECTED LOAD	394.8	394.8	394.8	282.4

## PANEL A

120/208V 3 PHASE 4 WIRE SN 60HZ 131 A. CONN. LOAD			
225 AMPS - 150A M.C.B. 10,000 A.I.C.			
SERVING	LOAD	P. B.R.	CIR.
INTERIOR LTG. - FRONT	1500	1 20 1	2 20 1
INTERIOR LTG. - REAR	1500	1 20 3	4 20 1
PARAFET SIGN	1000	1 20 5	6 20 1
NEON WINDOW SIGNS	600	1 20 7	8 20 1
* DETECTION LOOP	1000	1 20 9	10 20 1
D-T ORDER BOARD LIGHTS	1000	1 20 11	12 20 1
EXTERIOR NIGHT LIGHTS	1300	1 20 13	14 20 1
** MENU LIGHTS LEFT	1300	1 20 15	16 20 1
** CANOPY LIGHTS PATIO	650	1 20 17	18 20 1
** MENU LIGHTS RIGHT	1300	1 20 19	20 20 1
** MENU LIGHTS PATIO	400	1 20 21	22 20 1
** CANOPY LIGHTS RIGHT	1250	1 20 23	24 20 1
** CANOPY LIGHTS RIGHT	1250	1 20 25	26 20 1
** BLDG. PARAPET NEON	1700	1 20 27	28 20 1
** MENU LIGHTS LEFT REMOTE	1300	1 20 29	30 20 1
** CANOPY NEON LEFT REMOTE	1500	1 20 31	32 20 1
** CANOPY NEON LEFT REMOTE	1500	1 20 33	34 20 1
** MENU LIGHTS RIGHT REMOTE	1300	1 20 35	36 20 1
** CANOPY NEON RIGHT REMOTE	1500	1 20 37	38 20 1
** CANOPY NEON RIGHT REMOTE	1500	1 20 39	40 20 1
** SPARE		1 20 41	42 20 1
* THESE CIRCUITS TO HAVE ISOLATED GROUND			
** OUTDOOR LIGHTING CIRCUITS DESIGNED FOR MAXIMUM SEE SHEET E-1 FOR EXACT NOT ALL CIRCUITS AND WATTAGE WILL BE USED. EC TO ADJUST BID ACCORDINGLY			
*** PARAPET NEON OPTIONAL. VERIFY WITH OWNER			

## PANEL B

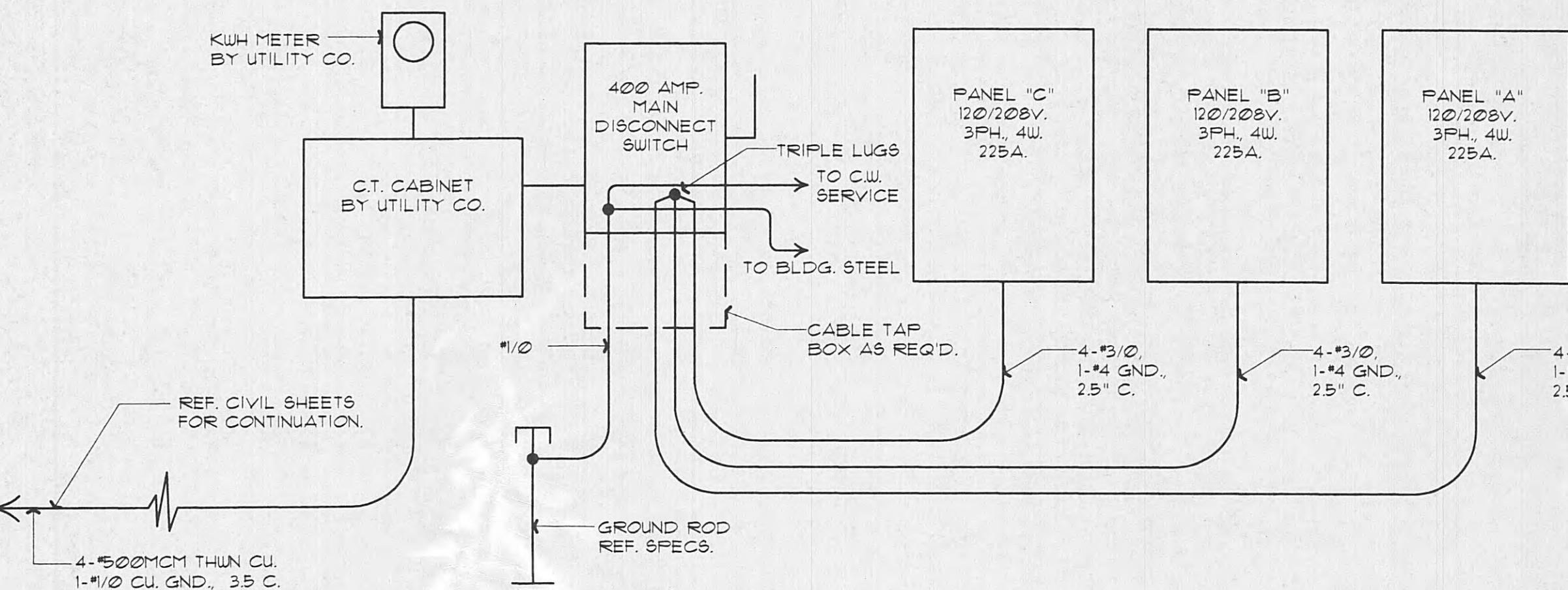
120/208V 3 PHASE 4 WIRE SN 60HZ 117 A. CONN. LOAD			
225 AMPS - 150A M.C.B. 10,000 A.I.C.			
SERVING	LOAD	P. B.R.	CIR.
GFI RECEPTS.	1000	1 20 1	2 20 1
WALK-IN UNIT LT. HTR.	1600	1 20 3	4 20 1
" "	1600	1 20 5	6 20 1
COOLER COIL / FAN UNIT	550	1 20 7	8 20 1
FRYERS FILTER	1100	1 20 9	10 20 1
* FRYERS / GRIDDLE CLTS.	1000	1 20 11	12 20 1
WARMER & DRINK DISP.	1200	1 20 13	14 20 1
COOKER / WARMER	1650	1 20 15	16 20 1
SALT / BAG TABLE	1800	1 20 17	18 20 1
HEAT LAMP	2200	1 20 19	20 20 1
CONDENSATE EVAP.	1200	1 20 21	22 20 1
COFFEE MACHINE	1800	1 20 23	24 20 1
FUDGE WARMER	500	1 20 25	26 20 1
ICE MACHINE & COND.	2100	1 20 27	28 20 1
" "	2100	1 20 29	30 20 1
SPARE	1200	1 20 31	32 20 1
SPARE	1200	1 20 33	34 20 1
SPARE	1200	1 20 35	36 20 1
SPACE		37	38
SPACE		39	40
SPACE		41	42

## PANEL C

120/208V 3 PHASE 4 WIRE SN 60HZ 141 A. CONN. LOAD			
225 AMPS - 200A M.C.B. 10,000 A.I.C.			
SERVING	LOAD	P. B.R.	CIR.
RTU #1	14500	3 60 1	2 40 3
" "	"	-	3 4
" "	"	-	5 6
ICE CREAM MACHINE	6510	3 30 7	3 20 3
" "	"	-	9 10
" "	"	-	11 12
FREEZER COND. UNIT	3350	2 30 13	14 30 2
" "	"	-	15 16
BUN TOASTER	2800	2 20 17	18 20 2
" "	"	-	19 20
COOLER COND. UNIT	1650	2 20 21	22
" "	"	-	23 24
SPACE		25	26
" "	"	-	27 28
" "	"	-	29 30
SPARE		31	32
" "	"	-	33 34
" "	"	-	35 36
" "	"	-	37 38
" "	"	-	39 40
SPACE		41	42

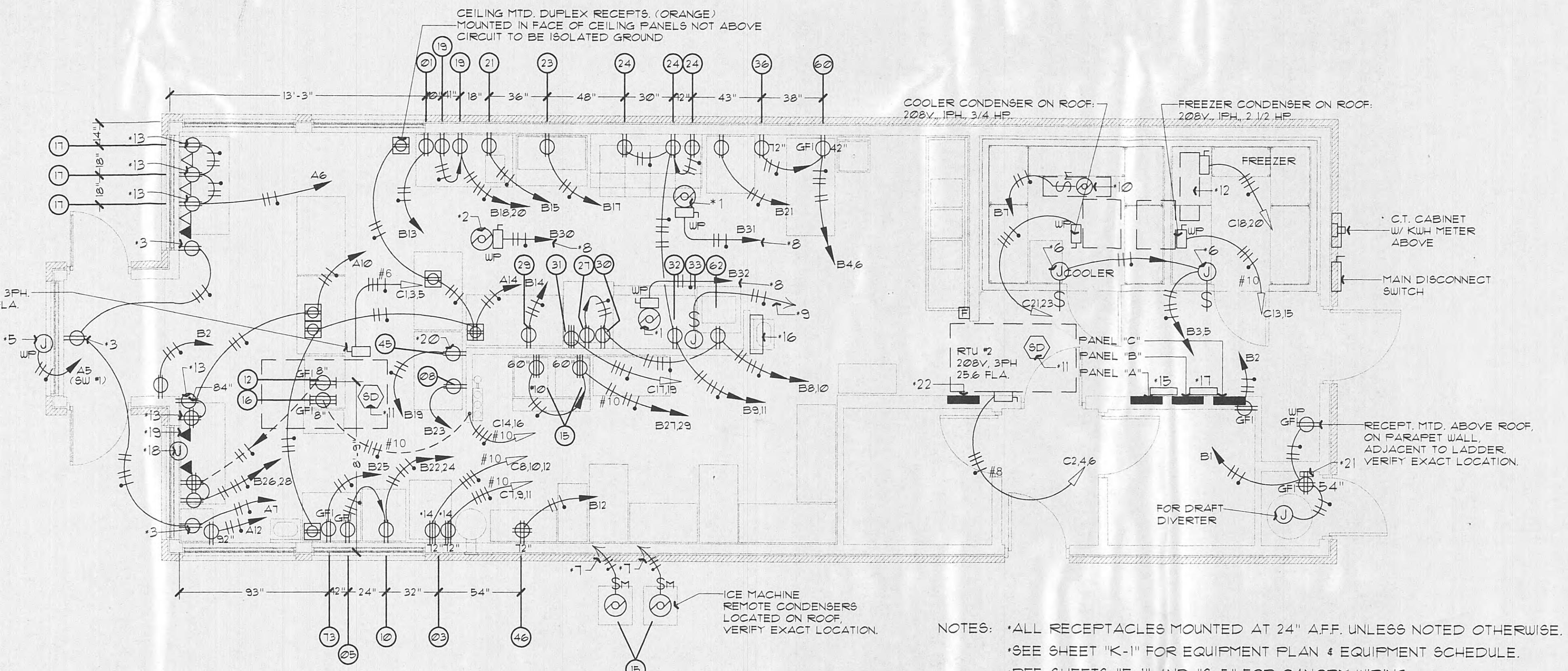
\* PROVIDE SHUNT TRIP BREAKERS CONNECTED TO FIRE SUPPRESSION SYSTEM. (REF. SPEC'S.)

\*\* E.C. TO PROVIDE WEATHERPROOF FLEXIBLE CONDUIT BETWEEN EXH. FAN BASE AND FAN HOUSING OF SUFFICIENT LENGTH TO ALLOW HINGED CURB TO OPEN FULLY. (REF. M-104)



## 01 ELECTRICAL RISER DIAGRAM

NO SCALE:



## 02 POWER PLAN

1/4" = 1'-0"

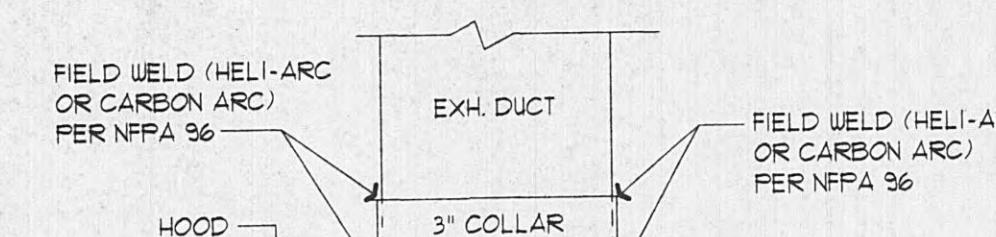
## 03 OUTDOOR LIGHTING CONTROL WIRE DIAGRAM

NO SCALE:

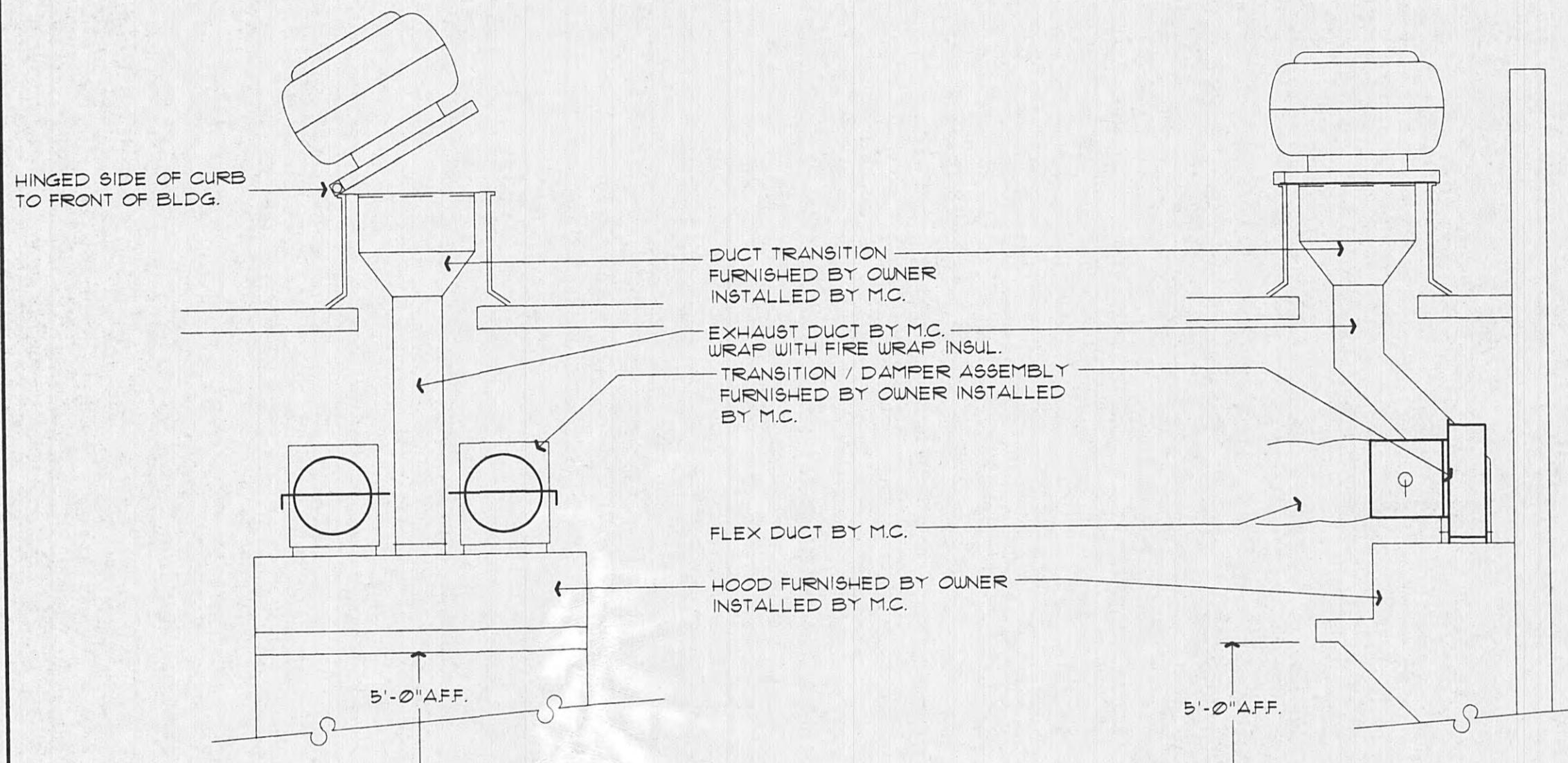
- SHEET E-3 NOTES:
  - 1. EXHAUST HOOD FAN ON ROOF: 120V, 1PH, 3/4 HP, 11.6 FLA.
  - 2. SUPPLY AIR FAN ON ROOF: 120V, 1PH, 1/3 HP, 5.4 FLA.
  - 3. RECEPT. MTD. @ 7'-4" OR ABOVE WINDOW FOR NEON WINDOW SIGN.
  - 4. DELETED
  - 5. ELEC. CONNECTION AT 12'-6" FOR WALL SIGN, SWITCHED SEE E-1.
  - 6. ELEC. CONNECTION FOR WALK-IN UNIT LIGHT, HEATER, ETC.
  - 7. CONNECT REMOTE CONDENSER FEEDER TO ICE MAKER CIRCUIT.
  - 8. FAN CIRCUIT "THROUGH" STARTER IN EXHAUST SYSTEM WIRING INTERLOCK BOX FURNISHED BY EXHAUST HOODS SUPPLIER.
  - 9. CONNECT FANS SWITCH, FURNISHED WITH HOOD TO EXHAUST SYSTEM INTERLOCK BOX. SEE MANUFACTURERS' CONTROL WIRING DIAGRAM.
  - 10. WALK-IN COOLER COIL/FAN UNIT: 120V, 1PH, 4.2 FLA.
  - 11. DUCT MOUNTED SMOKE DETECTOR FURNISHED & INSTALLED BY M.C. WIRING & CONNECTIONS BY E.C. WIRE SMOKE DETECTORS TO AUDIBLE/VISIBLE DEVICE IN RESTROOMS REF E-2.
  - 12. WALK-IN FREEZER COIL/FAN UNIT: 208V, 1PH, 10.9 FLA.
  - 13. ORANGE OUTLET, CIRCUIT TO HAVE ISOLATED GROUND.
  - 14. E.C. SHALL PROVIDE 4X4 J-BOX WITH SINGLE GANG PLASTER RING AND WIRING. CORD, PLUG, & RECEPTACLE FURNISHED BY OWNER, INSTALLED BY E.C.
  - 15. EXHAUST SYSTEM WIRE INTERLOCK BOX. SEE MANUFACTURERS' CONTROL WIRING DIAGRAM.
  - 16. FIRE SUPPRESSION SYSTEM CONTROL BOX.
  - 17. TELEPHONE INTERFACE BOX, MOUNT ON WALL BELOW CEILING ABOVE PANELS.
  - 18. 12'x14'x4'D JUNCTION BOX W/ ACCESSIBLE COVER. 2" CONDUIT FROM STALL MENUS 2" CONDUIT FROM PATIO MENUS AND 1" CONDUIT FROM D-T ORDER BOARD. SEE SHEET E-1, E.C. TO INSTALL 3 - 1" CONDUIT FROM BOX TO ABOVE CEILING WIRING BY OTHERS.
  - 19. DEDICATED PHONE LINE FOR COMPUTER MODEM. RED COVER PLATE "COMPUTERS ONLY".
  - 20. CIRCUIT B18 FOR HEAT LAMP TO HAVE A "HUBBLE": 5352 20 A. RECEPT.
  - 21. AUTOMATIC SPRINKLER CONTROLLER MOUNTED AT 60" AFF. INSTALL 1/2" CONDUIT U/G TO NEAREST LANDSCAPE AREA. WIRING BY OTHERS. REF. LANDSCAPE PLAN IF AVAILABLE.
  - 22. OUTDOOR LIGHTING CONTROLS. SEE ELEC. RISER E-3.0 & WIRE DIAGRAM E-3.03

NOTE: REFER TO DIVISION 16 ELECTRICAL SPECIFICATIONS (SHEET SP2) FOR ADDITIONAL INFORMATION.

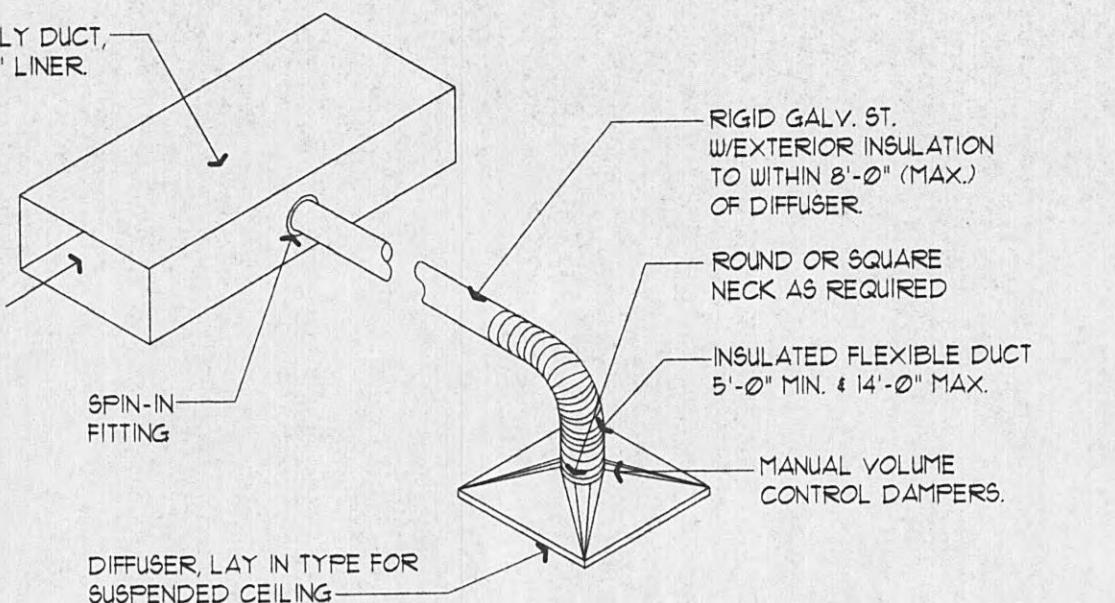
SONIC DRIVE-IN	RC EDITION: 00
BUILDING TYPE: 05D	1007 N. ROANE ST.
HARRIMAN, TENNESSEE	
ELECTRICAL PLAN	
SHEET	
E-3	
OF 3	
DWG:	JUN 01, 1998
DATE:	SONIC



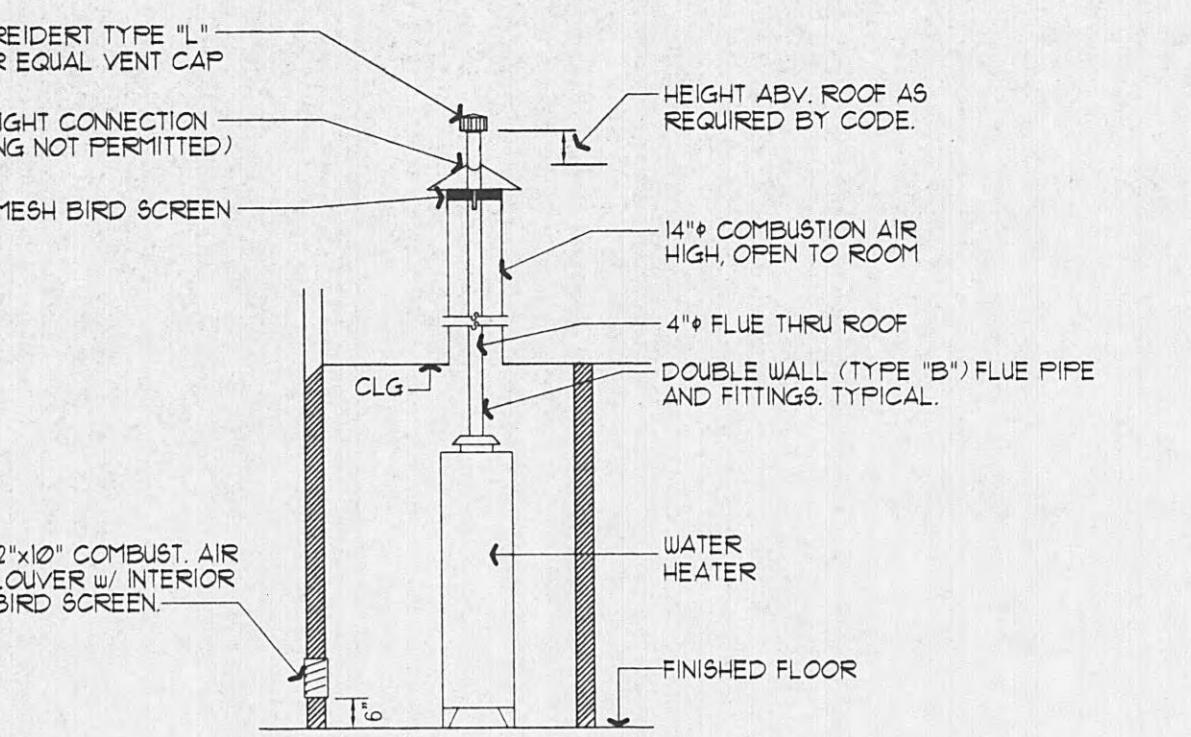
**01 EXHAUST HOOD CONNECTION DETAIL**  
NO SCALE



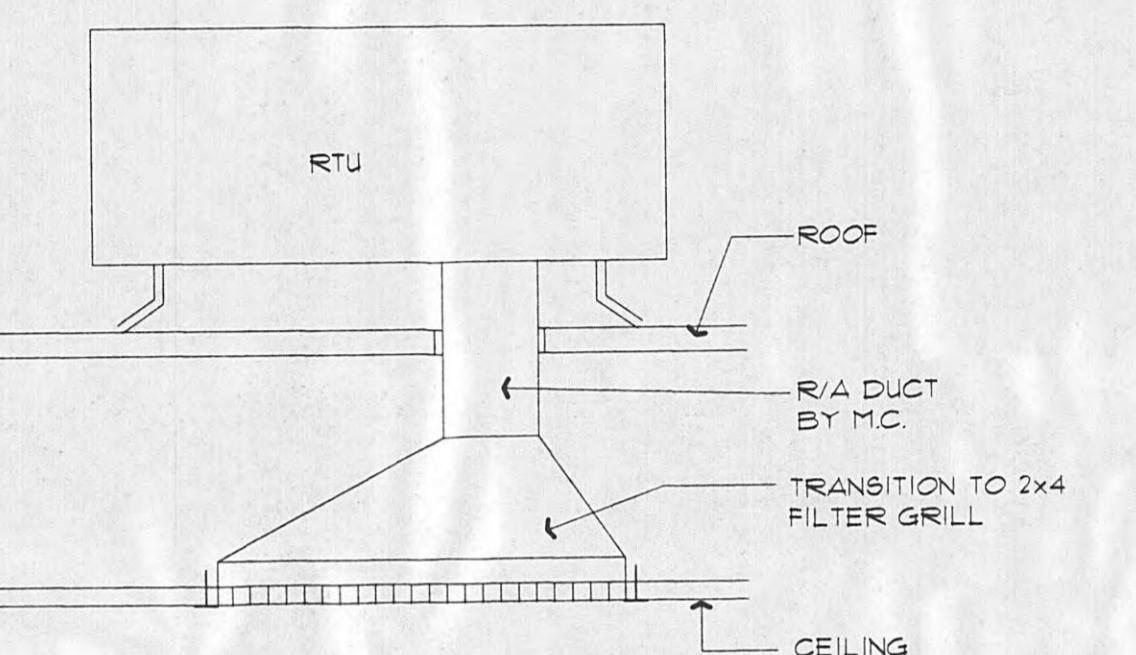
**04 EXHAUST HOOD DETAIL**  
NO SCALE



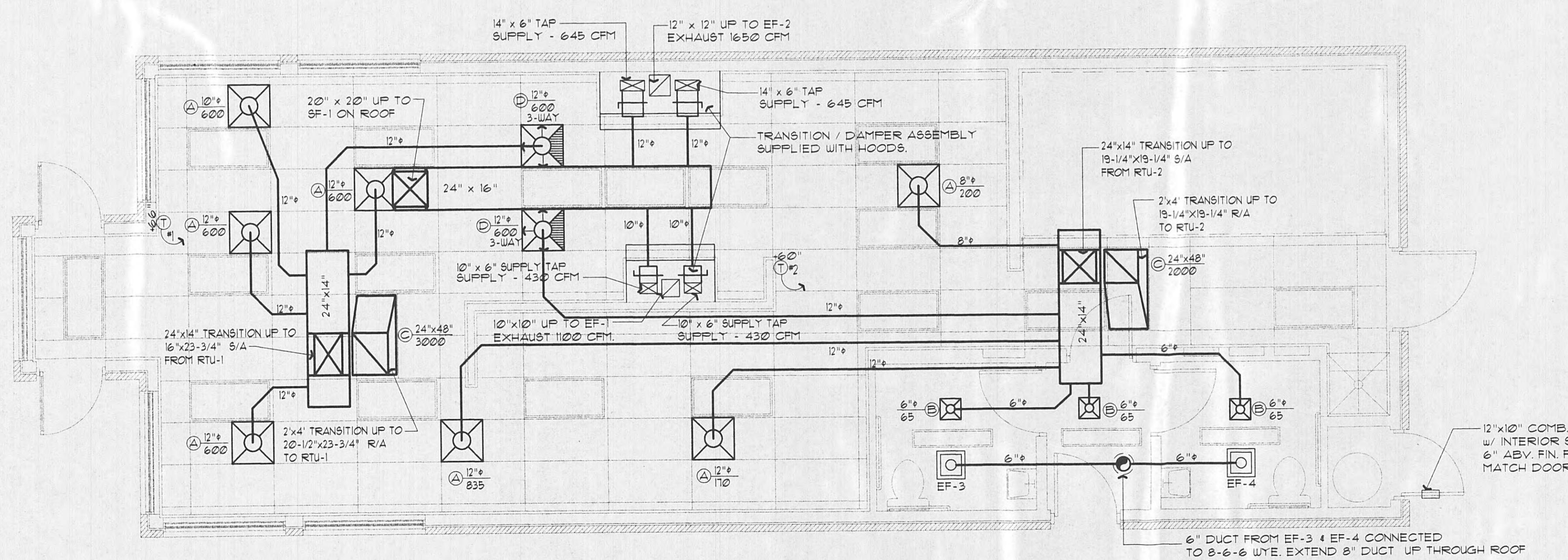
**02 TYPICAL CEILING DIFFUSER DTL.**  
NO SCALE



**03 COMBUSTION AIR DETAIL**  
NO SCALE



**05 TYP. RETURN AIR DROP**  
NO SCALE



**06 HYAC PLAN**  
1/4" = 1'-0"

REFERENCE NORTH  
FOR ROOM FINISH  
SCHEDULE ONLY  
REF. SITE PLAN  
FOR TRUE NORTH  
SONIC

AIR BALANCE DATA											
EXHAUST		SUPPLY									
EF-1	1100 CFM	SF-1	GRIDDLE HOOD								
EF-2	1650 CFM	FRYER HOOD	860 CFM								
	2750 CFM	RTU-1 O.A.	1290 CFM								
		RTU-2 O.A.	0 CFM								
			600 CFM								
			2750 CFM								

ROOFTOP UNIT SCHEDULE											
RTU UNIT NO.	BRAND	MODEL NO.	COOLING CAP. 1/2	HEATING EER TYPE	AIR CAPACITY CFM	POWER ESP. D. V. PH. T	ACCESSORIES CURB CMF O.A.1	REMARKS			
RTU-1	YORK	D3CG020N130	81000	8.9 G	130000	3200 5' B 208 3 Y		RTU-1+0			
RTU-2	YORK	D3CG060N262	59000	9.4 G	75000	2000 5' D 208 3 Y Y		RTU-2+650			

NOTES:

- 1. SUBSTITUTION OF OTHER MANUFACTURERS NOT ACCEPTABLE, FOR NATIONAL ACCOUNT PRICING & DISTRIBUTORS CALL LLOYD FISKE W/YORK INTERNATIONAL 1-918-455-9615
- 2. COOLING CAPACITY IS BASED ON ARI-210 CONDITIONS
- 3. EXHAUST RESISTANCE HEAT, G-GAS HEAT
- 4. EXTERNAL STATIC PRESSURE IS EXTERNAL TO THE UNIT AND ITS DUCT ENCLOSURE (IF APPLICABLE) WITH FILTERS IN PLACE
- 5. BELT DRIVE, D-DIRECT DRIVE
- 6. CURB SHALL EXTEND THE ENTIRE UNIT AND DUCT ENCLOSURE
- 7. PROVIDE MANUAL FRESH AIR DAMPER w/OUTDOOR HOOD & CLEANABLE FILTER, BALANCE FOR AMOUNT SHOWN
- 8. PROVIDE AND INSTALL DUCT MTD. SMOKE DETECTOR(S) IAW NFPA EC SHALL PROVIDE WIRING AND CONNECTION FOR FAN SHUTDOWN, THERMOSTAT SHALL BE EQUAL TO YORK SUNLINE 2000 MODEL 2ET04100224 HEAT/COOL, 1 DAY PROGRAMMABLE COMMERCIAL THERMOSTAT.

FAN SCHEDULE											
FAN NO.	DUTY	MFGR-MODEL NO.	TYPE	CFM	S.P.	RPM	BHP	HP	VOLTS	Ø	REMARKS
EF-1	GRILLE HOOD EXHAUST	ILG UBC135	CRBR	1100	10'	1525	-	3/4	120	1	13, 5
EF-2	FRYER HOOD EXHAUST	ILG UBC135	CRBR	1650	10'	1525	-	3/4	120	1	13, 5
SF-1	MAKE-UP AIR	PHOENIX DM 3300	CRBS	250	25	725	-	1/3	120	1	13
EF-3, 4	TOILET EXHAUST	BROAN 360 HOR	CCDR	75	10'	1200	-	1/10	120	1	12, 4

REMARKS:

- 1. TYPE FAN MOUNTING DRIVE HOOD
- C-CENTRIFUGAL R-ROOF D-DUCT C-CEILING D-DIRECT B-BELT R-ROUND S-SQUARE
- 2. PROVIDE DISCONNECT MEANS, INLET GRILLE, BACKDRAFT DAMPER AND VENT STACK.
- 3. FANS, CURBS, & CURE DUCT TRANSITIONS SUPPLIED BY OWNER, INSTALLED BY MC. REMAINDER OF DUCT BY M.C.
- 4. FAN DUCT AND INSTALLATION BY M.C.
- 5. THIS FAN FURNISHED WITH HINGED PRE-FAB CURB. REFER TO DUG A-813 FOR LOCATION OF HINGED SIDE.

NOTE: ROUGH-INS AND FINAL CONNECTIONS FOR OWNER FURNISHED EQUIPMENT BY G.C. UNLESS NOTED OTHERWISE.

AIR DISTRIBUTION DEVICES SCHEDULE			
MARK	DUTY	DESCRIPTION	MFGR/MODEL NO.
(A)	SUPPLY	24"x24" LOVERED FACE, LAY-IN ROUND NECK SIZE AS SHOWN ON PLANS OBD	KRUEGER MODEL 1400 W/COB
(B)	SUPPLY	12"x12" LOVERED FACE, SURFACE MOUNT, ROUND NECK SIZE AS SHOWN ON PLANS OBD	KRUEGER MODEL 1400 W/OBD
(C)	RETURN	24"x24" LOVERED FACE, LAY-IN FILTER FRAME 20"x44" FILTER SPACE	KRUEGER MODEL 65204-BFF
(D)	SUPPLY	24"x24" LOVERED FACE, LAY-IN 3-WAY THRU, ROUND NECK SIZE AS SHOWN ON PLANS OBD	KRUEGER MODEL SH W/OBD

\* 1. 3-WAY DIFFUSER IS NOT AN OPTION, IT MUST BE INSTALLED.  
NOTE: REFER TO DIVISION 15000 MECHANICAL SPECIFICATIONS ON THE SPEC SHEETS (SP) FOR ADDITIONAL INFORMATION.

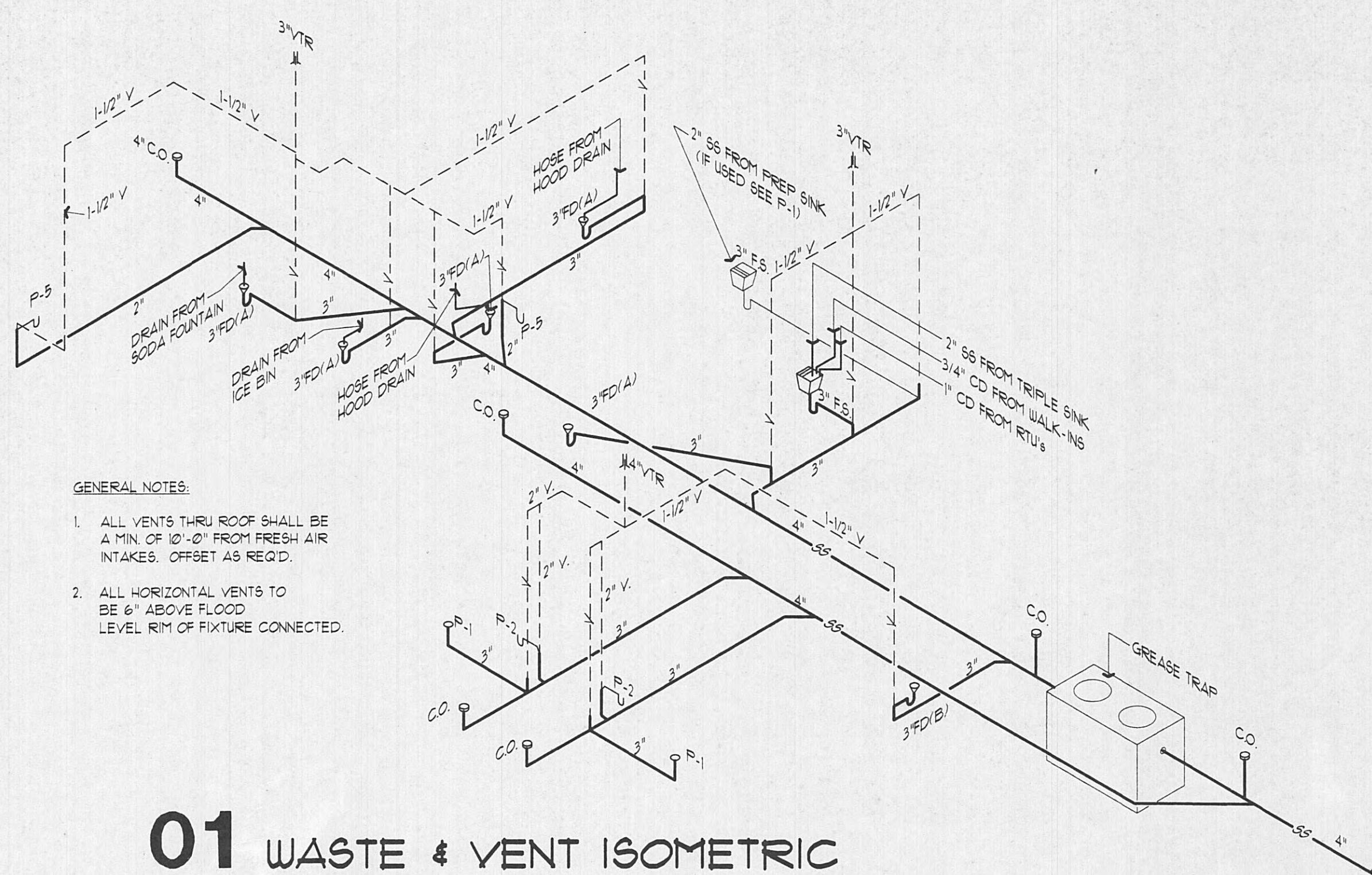
**SONIC DRIVE-IN**  
BUILDING TYPE: 05D RC EDITION: 00  
1007 N. ROANE ST.  
HARRIMAN, TENNESSEE  
MECHANICAL PLAN

**M-1**  
OF 1

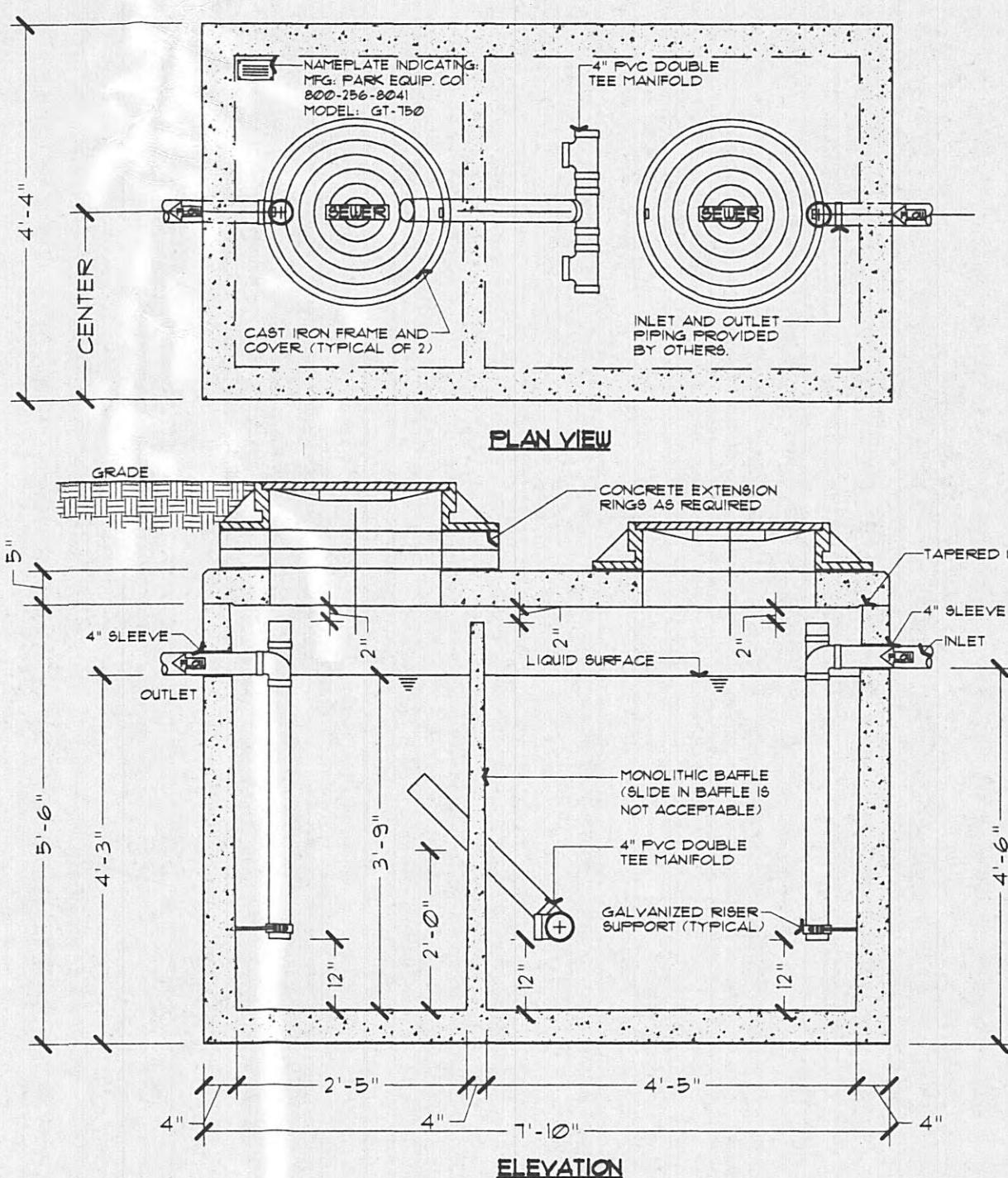
DWG: 05D-RC3GM-1.00  
DATE: JUNE 01, 1998

**SONIC**  
CORPORATION  
101 PARK AVENUE  
OKLAHOMA CITY, OK 73102  
OFFICES: 405-232-1654  
FAX: 405-232-1568  
Copyright 1998 America's Drive-In Trust  
These plans are the property of SONIC CORPORATION and are intended for the sole use of the owner for whom they were prepared. They are to be used only for the construction of the drive-in at the specified location.





**01** WASTE & VENT ISOMETRIC  
NO SCALE



**Specifications**

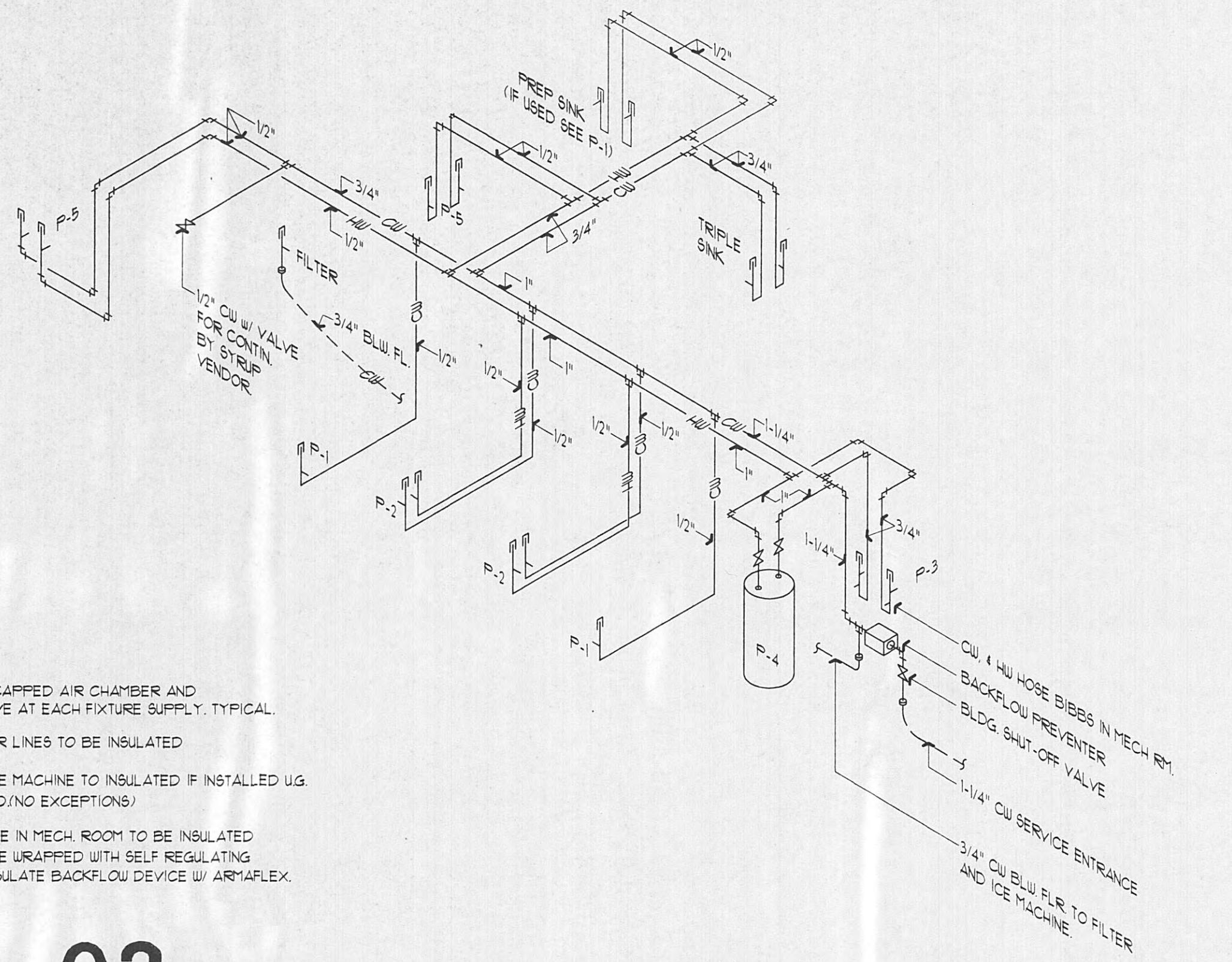
**CONCRETE:** Class I concrete with design strength of 4500 psi at 28 days. Unit is monolithic construction at floor, wall and baffle (no joints below water level). Gross empty weight of approx 10,000 lbs.

**REINFORCEMENT:** Grade 60 reinforced with steel reinforcement conforming to ASTM A615. 4#25 required per square ft. Design for 140# to 4,200 traffic loading.

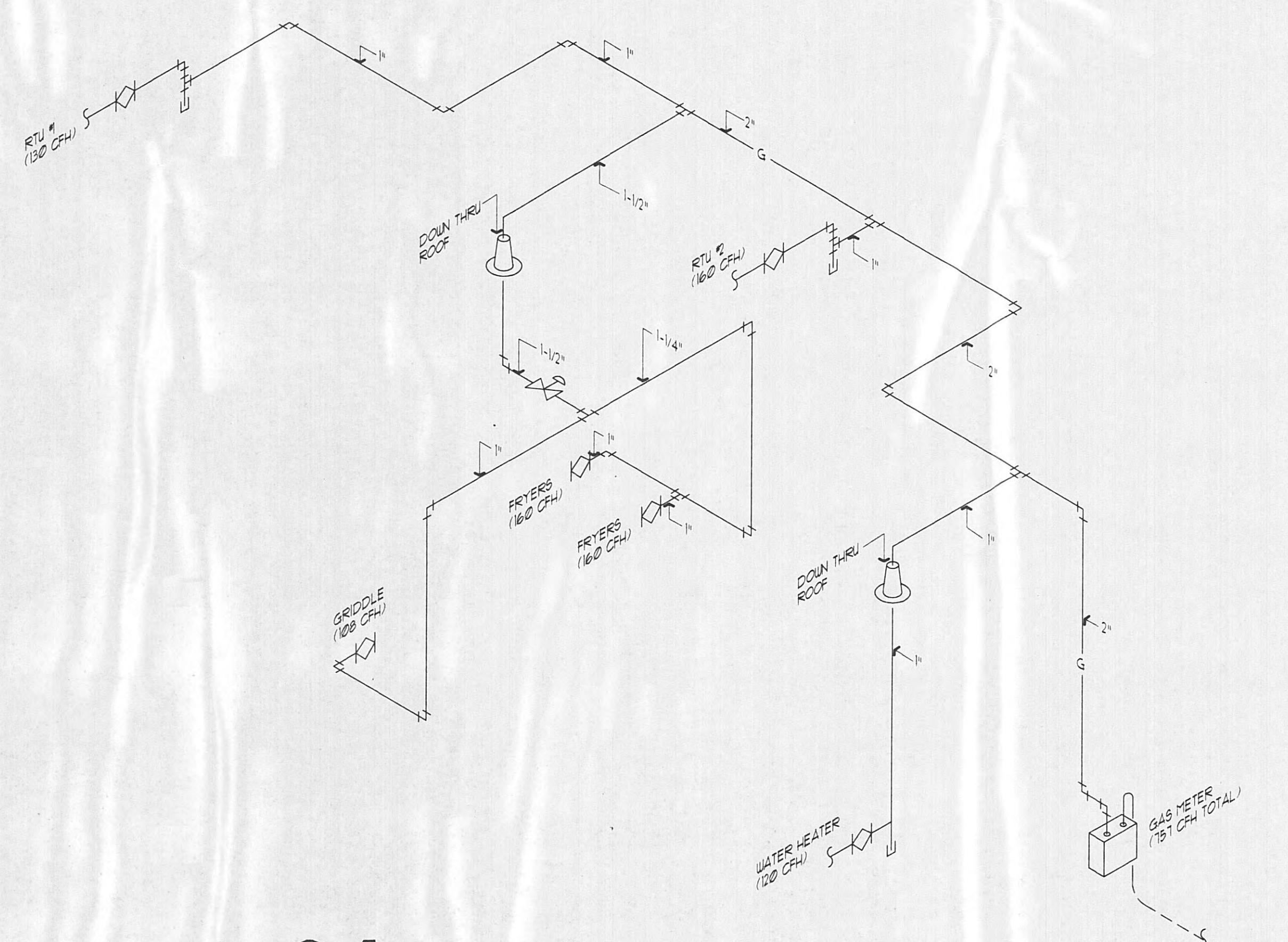
**C.I. CASTINGS:** Manhole frames, covers or grates are manufactured of Gray Cast Iron conforming to ASTM A48-76 Class 30. Manhole shall have 24 inch inside diameter and be traffic duty.

EQUAL TO: PARK EQUIP. CO. (1-800-256-8041)  
GREASE TRAP MODEL NO. GT-750

**02** GREASE TRAP DETAIL  
NO SCALE



**03** DOMESTIC WATER PIPING ISOMETRIC  
NO SCALE



**04** GAS PIPING ISOMETRIC  
NO SCALE

NOTE: REFER TO DIVISION 15000 MECHANICAL SPECIFICATIONS ON THE SPEC SHEETS ("SP") FOR ADDITIONAL INFORMATION.

NO	DATE	REVISIONS

**SONIC CORPORATION**  
101 PARK AVENUE, OKLAHOMA CITY, OK 73102  
OFFICES: 405-260-7654  
FAX: 405-260-7658  
Amherst Equipment Co.  
**SONIC** © 1998 AMERICA'S DRIVE-IN OWNER  
COPYRIGHT 1998. 100% AMERICA'S DRIVE-IN OWNER  
OTHER THAN BY THE DESIGNATED SONIC DRIVE-IN OWNER FOR  
CONSTRUCTION OF THE DRIVE-IN AT THE SPECIFIED LOCATION

**SONIC DRIVE-IN**  
BUILDING TYPE: 05D RC EDITION: 00  
1007 N. ROANE ST.  
KATY, TEXAS 77494  
**PLUMBING RISERS**  
**PLUMBING DETAILS**

**SHEET**  
**P-2**  
OF 2

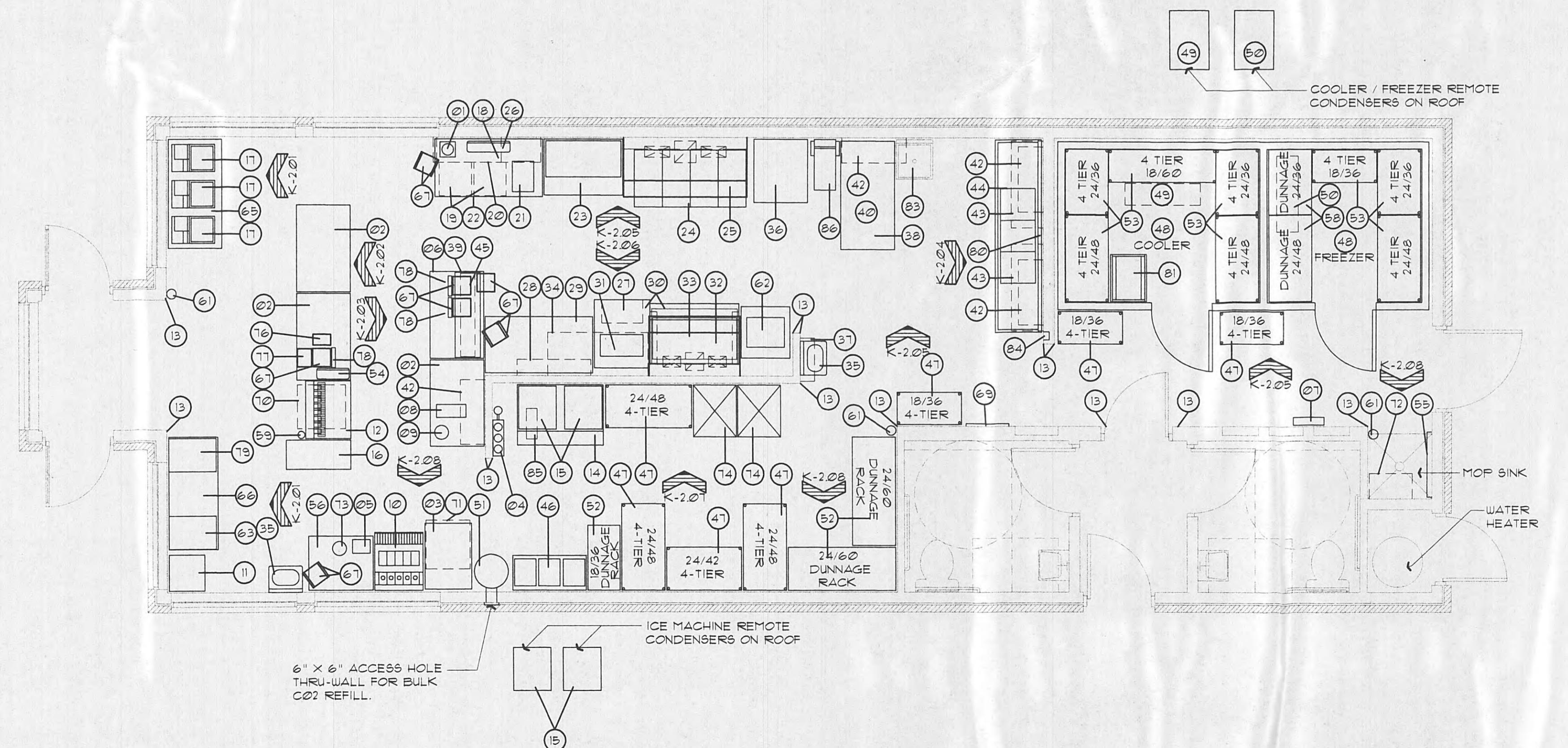
DWG: 05D\_\_\_\_\_RC3GP-2.00  
DATE: JUNE 01, 1998

# EQUIPMENT SCHEDULE

NO.	DESCRIPTION	MAKE / MODEL NO.	SUPPLIED	INSTALLATION
1	SAUCE WARMER	APW / W-4 PACKAGE DECAL (SMALLWARES)	OWNER / WASSERSTROM	GENERAL CONTRACTOR
2	(3) TABLE 30"x48" W/2 UNDERSHELVES	WASSERSTROM / D053-01-75	OWNER / WASSERSTROM	GENERAL CONTRACTOR
3	ICE CREAM MACHINE (TWO HEAD)	ELECTRO FREEZE / 30-CMT	OWNER / WASSERSTROM	GENERAL CONTRACTOR
4	WATER FILTRATION SYSTEM	LIFESTREAM / DLC NO. 24	OWNER / WASSERSTROM	GENERAL CONTRACTOR
5	MIXER	HAMILTON BEACH / 94900	OWNER / WASSERSTROM	GENERAL CONTRACTOR
6	TABLE 30"x48" W/2 UNDERSHELVES & SACK STATION	WASSERSTROM / D053-02-78	OWNER / WASSERSTROM	GENERAL CONTRACTOR
7	EXHAUST SYSTEM WIRE INTERLOCK BOX	J.D. HIGGINS INTERLOCK PANEL	OWNER / J.D. HIGGINS CO.	GENERAL CONTRACTOR
8	COFFEE MACHINE	AS SELECTED BY SUPERVISING PARTNER	SUPERVISING PARTNER	SUPERVISING PARTNER
9	TEA DISPENSER	BLOOMFIELD / 8799 (SMALLWARES)	OWNER / WASSERSTROM	SUPERVISING PARTNER
10	21" FOUNTAINETTE W/REFRIGERATOR	DELFIELD / 402-7	OWNER / WASSERSTROM	GENERAL CONTRACTOR
11	DROP SAFE	CORPORATE SAFE / CS3023E	OWNER / WASSERSTROM	GENERAL CONTRACTOR
12	8-HEAD DRINK MACHINE / ICE BIN	COCA-COLA / 85-2348T-02	OWNER / COCA-COLA	COCA-COLA CONTRACTOR
13	PVC CORNER GUARD	MARLITE / PI00 M961	GENERAL CONTRACTOR	GENERAL CONTRACTOR
14	ICE BIN 900 POUND	SCOTTSMAN / BH900AE	OWNER / WASSERSTROM	GENERAL CONTRACTOR
15	(2)ICE MACHINES & REMOTE CONDENSERS	SCOTTSMAN / NME650RE-1A	OWNER / WASSERSTROM	GENERAL CONTRACTOR
16	SLUSH DRINK MACHINE	ELECTRO FREEZE / 810	OWNER / WASSERSTROM	GENERAL CONTRACTOR
17	(3)COMPUTERS / REGISTERS	P.O.S. VENDOR	OWNER / P.O.S. VENDOR	P.O.S. VENDOR
18	CONEY BAG RACK 14"x36"CHROME WIRE(WALL)	METRO / (1)1436BR, (2)WD14C, (1)DD14C	OWNER / WASSERSTROM	GENERAL CONTRACTOR
19	(2)FOOD STEAMERS	TOASTSWELL / NFS	OWNER / WASSERSTROM	GENERAL CONTRACTOR
20	CONEY SHELF 14" x 5' CHROME WIRE(WALL)	METRO / (1)1460BR, (2)WD14C	OWNER / WASSERSTROM	GENERAL CONTRACTOR
21	COOKER / WARMER (PART OF TABLE 22)	WELLS / MOD100TD 120V 1650W	OWNER / WASSERSTROM	GENERAL CONTRACTOR
22	CONEY STATION TABLE 30" x 60"	WASSERSTROM / D053-03-01	OWNER / WASSERSTROM	GENERAL CONTRACTOR
23	MOBILE FRY DUMP STATION 44"	QUADRA-TECH / SNB-44	OWNER / WASSERSTROM	GENERAL CONTRACTOR
24	4 BANK GAS FRYER SYSTEM W/FILTER	FRYMASTER / FPH450CSD	OWNER / WASSERSTROM	GENERAL CONTRACTOR
25	EXHAUST HOOD (5'-9")	VENTROGUARD / ES-4	OWNER / J.D. HIGGINS CO.	GENERAL CONTRACTOR
26	CONEY CONDIMENTS HOLDER	TRAEX / 4745 4-QUART	OWNER / WASSERSTROM	GENERAL CONTRACTOR
27	WARMER DRAWER	ROUNDUP / WD-21	OWNER / WASSERSTROM	GENERAL CONTRACTOR
28	SANDWICH BAG RACK, (WALL MOUNT)	JERO / 52065-101	OWNER / WASSERSTROM	GENERAL CONTRACTOR
29	REFRIGERATED SANDWICH UNIT (60")	BEVERAGE-AIR / SUR60-12	OWNER / WASSERSTROM	GENERAL CONTRACTOR
30	EQUIP. STAND W/TOP HEAT	WASSERSTROM / D053-01-10	OWNER / WASSERSTROM	GENERAL CONTRACTOR
31	BUN TOASTER	APW / M-95-3	OWNER / WASSERSTROM	GENERAL CONTRACTOR
32	4' GAS GRIDDLE	LANG / G-4EI	OWNER / WASSERSTROM	GENERAL CONTRACTOR
33	EXHAUST HOOD(4'-3")	VENTROGUARD / ES-4	OWNER / J.D. HIGGINS CO.	GENERAL CONTRACTOR
34	BUN SHELF (WALL MOUNT)	JERO / 52122	OWNER / WASSERSTROM	GENERAL CONTRACTOR
35	(2)HAND SINK	EAGLE / HSA10F WITH#306495 FAUCET &#307120 HANDLES	OWNER / WASSERSTROM	GENERAL CONTRACTOR
36	REACH-IN REFRIGERATOR/FREEZER	McCALL / DT-40200IE W/ CASTERS	OWNER / WASSERSTROM	GENERAL CONTRACTOR
37	FIRE SUPPRESSION SYSTEM CONTROL BOX	ANSUL / R-102	OWNER / FIRE SYS. CONTR.	FIRE SYSTEMS CONTRACTOR
38	PREP TABLE 30"x60" W/2 UNDERSHELVES	WASSERSTROM / D053-01-76	OWNER / WASSERSTROM	GENERAL CONTRACTOR
39	SACKING STATION ( PART OF #06)	WASSERSTROM / D053-02-78	OWNER / WASSERSTROM	GENERAL CONTRACTOR
40	TOMATO SLICER	LINCOLN / 0643N (SMALLWARES)	OWNER / WASSERSTROM	SUPERVISING PARTNER
42	(4) 14" x 36" CHROME WIRE WALL SHELVES	METRO / (4)1436BR, (8)WD14C	OWNER / WASSERSTROM	GENERAL CONTRACTOR
43	(2) 18"x48"CHROME WIRE WALL SHELVES	METRO / (2)1848BR, (4)WD18C	OWNER / WASSERSTROM	GENERAL CONTRACTOR

## **CONTINUED**

NO.	DESCRIPTION	MAKE / MODEL NO.	SUPPLIED	INSTALLATION
44	3-COMPARTMENT SINK W/24"DRAINBOARDS	WASSERSTROM / D053-02-98 W/T & S #156 14" FAUCET	OWNER / WASSERSTROM	GENERAL CONTRACTOR
45	DUAL HEAT LAMP 36" (PART OF TABLE #06)	HATCO / GRAH-36 DUAL INFINITE CNTRL.W/CORD & PLUG	OWNER / WASSERSTROM	GENERAL CONTRACTOR
46	BAG-IN-BOX DRINK SYRUP RACK	COCA-COLA / 85-1891-601	OWNER / COCA-COLA	COCA-COLA CONTRACTOR
47	CHROME WIRE SHELVING (DRY STORAGE)	METRO / (3)2448BR, (1)2442BR, (3)1836BR (4 TIER)	OWNER / WASSERSTROM	GENERAL CONTRACTOR
48	WALK-IN COOLER / FREEZER	THERMOKOOL / SONIC 2-A	OWNER / WASSERSTROM	GENERAL CONTRACTOR
49	COOLER COIL/FAN UNIT & REMOTE CONDENER	THERMOKOOL / ADT-0100, RQFM-15 3/4HP	OWNER / WASSERSTROM	GENERAL CONTRACTOR
50	FREEZER COIL/FAN UNIT & REMOTE CONDENER	THERMOKOOL / LET-0901, RQTL-250 2-1/2HP	OWNER / WASSERSTROM	GENERAL CONTRACTOR
51	DRINK CARBONATOR TANK w/ 6" S.S. LEGS	LOCAL CO2 CONTRACTOR / 200 POUND MIN.	SUPERVISING PARTNER	LOCAL CO2 CONTRACTOR
52	DUNNAGE RACKS ( DRY STORAGE ) (ALUM.)	QUADRA-TECH / (2) 24x60, (1) 18x36	OWNER / WASSERSTROM	GENERAL CONTRACTOR
53	EPOXY COATED WIRE SHELVING(WALK-IN) (4 TIER)	METRO / (3)2448NK2, (3)2436NK2, (1)1836NK2, (1)1860NK2	OWNER / WASSERSTROM	GENERAL CONTRACTOR
54	(1) FOUNTAIN CONDIMENTS HOLDER	TRAEX / 4742 3-QUART (SMALLWARES)	OWNER / WASSERSTROM	SUPERVISING PARTNER
55	MOP/BROOM RACK	RUBBERMAID / 1993 34" (SMALLWARES)	OWNER / WASSERSTROM	GENERAL CONTRACTOR
56	TABLE(30"x36")W/ 2 UNDERSHELVES	WASSERSTROM / D053-01-77	OWNER / WASSERSTROM	GENERAL CONTRACTOR
58	DUNNAGE RACKS (WALK-IN) (ALUM.)	QUADRA-TECH / (1)24x36 (1)24x48	OWNER / WASSERSTROM	GENERAL CONTRACTOR
59	(1)4" DIAMETER PVC FOR SYRUP CHASE	PVC 8'-4" IN LENGTH W/ ONE END CUT AT 45°	GENERAL CONTRACTOR	GENERAL CONTRACTOR
61	(3) HAND HELD FIRE EXTINGUISHER	AS REQUIRED & SELECTED BY CONST. MNGR.	OWNER / FIRE SYS. CONTR.	FIRE SYSTEMS CONTRACTOR
62	BASE REFRIGERATOR W/12x20 OPEN TOP	BEVERAGE-AIR / UCR21	OWNER / WASSERSTROM	GENERAL CONTRACTOR
63	2-DRAWER METAL FILE CABINET	P.O.S. VENDOR	OWNER / P.O.S. VENDOR	P.O.S. VENDOR
65	30"x60" TABLE W / 1 UNDERSHELF	WASSERSTROM / D053-01-25	OWNER / WASSERSTROM	GENERAL CONTRACTOR
66	COUNTER TOP ( 32" X 66" )	P.O.S. VENDOR	OWNER / P.O.S. VENDOR	P.O.S. VENDOR
67	(10) MONITORS	P.O.S. VENDOR	OWNER / P.O.S. VENDOR	P.O.S. VENDOR
69	COAT RACK W/HOOKS	PAINTED 1x4 24" LONG W/ 10 BRASS COAT HOOKS	GENERAL CONTRACTOR	GENERAL CONTRACTOR
70	(1) CUP DISPENSER W / LID HOLDER	JERO / 19018	OWNER / WASSERSTROM	GENERAL CONTRACTOR
71	ICE CREAM CUP / CONE DISPENSER W/ LID HOLDER	JERO / 19025	OWNER / WASSERSTROM	GENERAL CONTRACTOR
72	(1)14"x24" CHROME WIRE WALL SHELF	METRO / (1)1424BR, (2)1WD14C	OWNER / WASSERSTROM	GENERAL CONTRACTOR
73	HOT FUDGE WARMER / SERVER	SERVER PRODUCTS / FSP 82060 (SMALLWARES)	OWNER / WASSERSTROM	GENERAL CONTRACTOR
74	VENDORS BREAD RACKS	AS SPECIFIED BY LOCAL BREAD VENDOR	LOCAL BREAD VENDOR	SUPERVISING PARTNER
76	(1) PRINTER	P.O.S. VENDOR	OWNER / P.O.S. VENDOR	P.O.S. VENDOR
77	(1) AVERAGE TIME (SCANNER, MONITOR)	P.O.S. VENDOR	OWNER / P.O.S. VENDOR	P.O.S. VENDOR
78	(3) CLOCK OUT UNITS ( BUMPBARS )	P.O.S. VENDOR	OWNER / P.O.S. VENDOR	P.O.S. VENDOR
79	COMPUTER EQUIPMENT CABINET	P.O.S. VENDOR	OWNER / P.O.S. VENDOR	P.O.S. VENDOR
80	PRE-RINSE UNIT (FOR 3-COMP SINK)	T & S BRASS / B-133	OWNER / WASSERSTROM	GENERAL CONTRACTOR
81	MOBILE ONION RING TRAY RACK	NORMANDY / 406AKD	OWNER / WASSERSTROM	GENERAL CONTRACTOR
83	PREP. SINK ONLY IF REQUIRED BY CODE OR OWNER	WASSERSTROM / C670-01-92 W/T & S B230LN 060X	OWNER / WASSERSTROM	GENERAL CONTRACTOR
84	FIRE SUPPRESSION SYSTEM PULL BOX	ANSUL / R-102 ACCESSORY (ROUGH-IN BY G.C.)	OWNER / FIRE SYS. CONTR.	FIRE SYSTEMS CONTRACTOR
85	PASSIVE WATER CHILLING SYSTEM	MAXIMICER / MS	OWNER / WASSERSTROM	GENERAL CONTRACTOR
86	SHORTENING DISPOSAL UNIT	FRYMASTER / SDU50	OWNER / WASSERSTROM	GENERAL CONTRACTOR

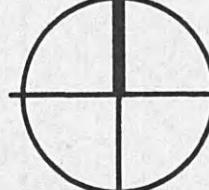


# 01 EQUIPMENT PLAN

$$1/4" = 1' - \emptyset"$$



**REFERENCE NOTES  
FOR ROOM FINISH  
SCHEDULE ONLY**

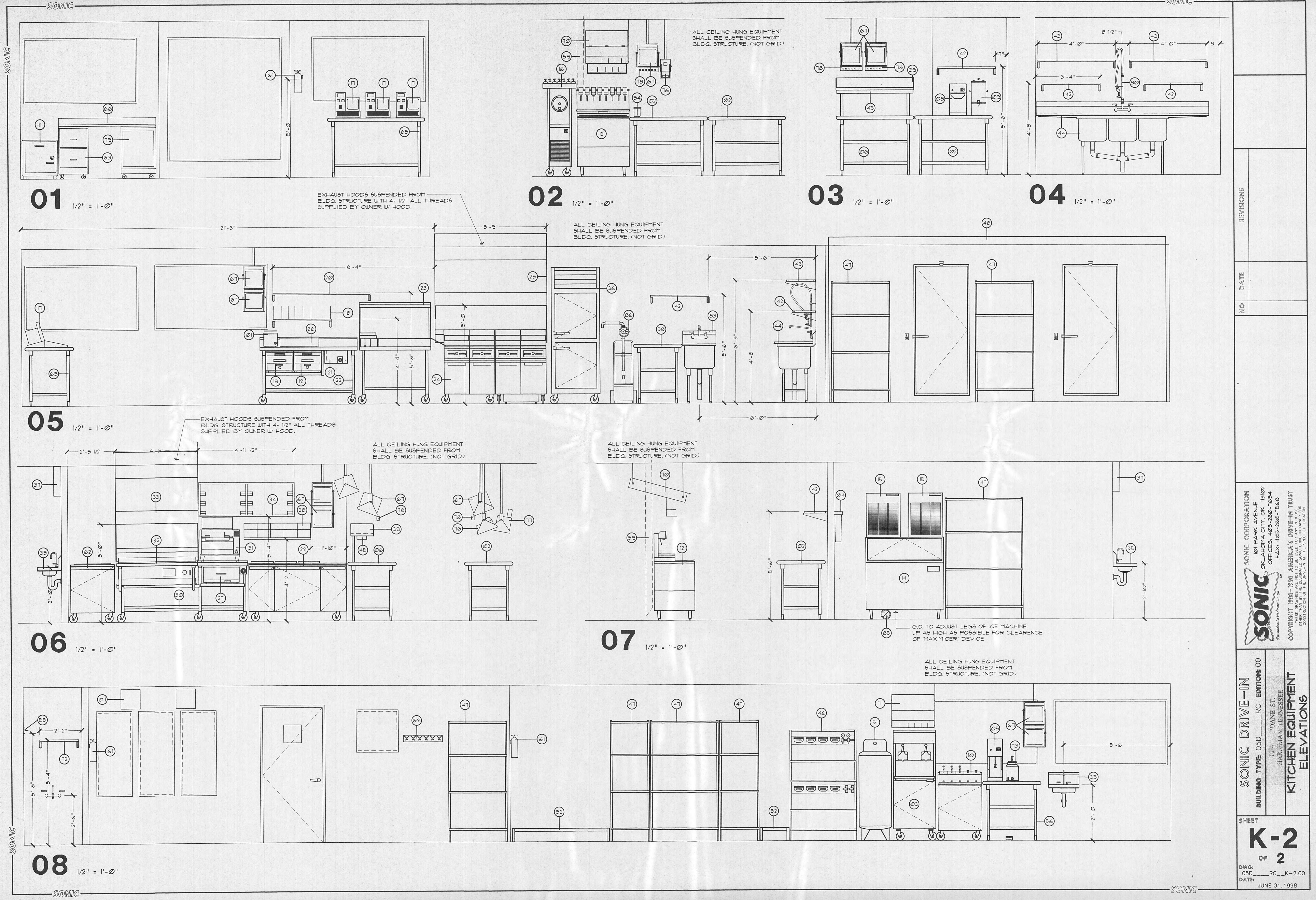


REF. SITE PLATE  
FOR TRUE NORTH

# TRUE NORTH

<b>SONIC DRIVE-IN</b>		<b>SONIC CORPORATION</b>
<b>BUILDING TYPE:</b>	<b>05D _____ RC</b>	<b>EDITION: 00</b>
		<b>101 PARK AVENUE OKLAHOMA CITY, OK 73102</b>
		<b>OFFICES: 405-280-7654 FAX: 405-280-7568</b>
 <p>America's Drive-In<sup>SM</sup></p>		
<b>EQUIPMENT SCHEDULES</b> <b>EQUIPMENT PLAN</b>		
<b>COPYRIGHT 1988-1998 AMERICA'S DRIVE-IN TRUST</b> <small>THESE DRAWINGS ARE NOT TO BE USED FOR ANY PURPOSE OTHER THAN BY THE DESIGNATED SONIC DRIVE-IN OWNER FOR CONSTRUCTION OF THE DRIVE-IN AT THE SPECIFIED LOCATION.</small>		
<b>1007 N. ROANE ST. HARRIMAN, TENNESSEE</b>		

**SHEET**  
**K-1**  
**OF 2**  
**DWG:** 05D\_\_\_\_\_RC\_\_K-1.00  
**DATE:**



**SPECIFICATIONS****DIVISION 1 GENERAL REQUIREMENTS**

REFERENCE OWNER'S INVITATION TO BID PACKAGE FOR THIS PROJECT FOR GENERAL REQUIREMENTS OF THE CONTRACT.

**DIVISION 2 SITE WORK**

## 02000

1. SITE PREPARATION: ESTABLISH EXTENT OF EXCAVATION AND FILL BY AREA AND ELEVATION, SET OUT LINES AND LEVELS, REMOVE ALL STONE, WEEDS, ROOTS AND OTHER VEGETATION FROM AREAS TO BE EXCAVATED, FILLED OR GRADED. LAYOUT AND GRADE STAKING SHALL PROVIDE FOR POSITIVE DRAINAGE AWAY FROM BUILDINGS AND AVOIDING THE CREATION OF PONDING AREAS.

2. GRADING: CUT AND FILL AND MACHINE GRADE SITE AS SHOWN ON THE DRAWINGS, TO DRAIN AS INDICATED. ALLOWING FOR THE THICKNESS OF PAVING BASE AND THE PAVING, PLACE IN LIFTED AREAS TO A MAXIMUM OF 1/2" THICKNESS COMPACTED BY ROLLING AND/OR TAMPING TO 95% OF MAXIMUM MOISTURE CONTENT.

3. BACKFILLING: ENSURE EXCAVATED AREA IS FREE OF WATER, ICE, SNOW OR DEBRIS, AND GROUND IS NOT FROZEN. BACKFILL AND FILL MATERIAL MAY CONSIST OF DN-SITE DRILLED SOILS INDICATED. BACKFILL SHALL BE PLACED IN LAYERS NO MORE THAN 12" THICK, AND COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT. REMOVE SURPLUS FILL FROM SITE.

## 02015 STRUCTURE EXCAVATION AND BACKFILL

1. THE OWNER SHALL PROVIDE A SOILS TEST REPORT FOR REVIEW BY THE PROJECT ENGINEER FOR FOUNDATION DESIGN OR ACCEPTANCE AS DETAILED ON THE DRAWINGS.

2. FOOTINGS SHALL BEAR ON UNDISTURBED SOIL AND DRILLED PIERS, WHEN USED, SHALL EXTEND A MINIMUM OF 1' - 6" INTO BEDROCK MATERIAL.

3. BACKFILL MATERIAL SHALL BE SAND, FREE OF ROOTS AND OTHER DELETERIOUS MATERIAL AND HAND TAPEMED. WATER SHALL NOT BE USED TO SAND BACKFILL. FILL MATERIAL WHEN REQUIRED, SHALL BE CLEAN, DRY, DUST FREE, NOT EXCEED 13% AND COMPACTED TO 95% STANDARD PROCTOR DENSITY PER ASTM D-693 AT MAXIMUM MOISTURE CONTENT.

## 02020 TRENCHING, BACKFILLING AND COMPACTING

1. CUT AND EXCAVATE FOR UNDERGROUND SERVICES FROM BUILDING TO UTILITIES AS INDICATED ON THE DRAWINGS.

2. PROTECT ACTIVE UTILITY SERVICES UNDERRIVED BY EXCAVATION.

3. CUT TRENCHES OUTSIDE/IN VIBR. TO ENABLE PROPER INSTALLATION OF SERVICES AND TO ALLOW FOR INSPECTION, SHORE AND BRACE AS REQUIRED TO PREVENT CAVE-IN AND IN ACCORDANCE WITH CURRENT GSA REQUIREMENTS.

4. KEEP TRENCHES DRY. PROVIDE NECESSARY EQUIPMENT INCLUDING PUMPS, PIPING, AND TEMPORARY DRAINS.

5. PLACE AND COMPACT GRANULAR BIDS AND FILLS OVER SERVICES TO WITHIN TWO FEET OF SUBGRADE ELEVATION. FILL REMAINDER OF TRENCHES WITH A LOW P.T. SELECT FILL, COMPACTED TO 90% STANDARD PROCTER DENSITY.

## 02025 CONCRETE PAVING

1. CONCRETE PAVING AND CURBS SHALL BE AS INDICATED ON THE DRAWINGS. FORMWORK TO BE REINFORCED AND ADEQUATELY STIFFENED AND BRACED TO SUPPORT WEIGHT OF CONCRETE WITHOUT DEFLECTION.

2. CONCRETE REINFORCEMENT AND ACCESSORIES, INCLUDING CHAIRS, BAR SUPPORTS, ETC. SHALL BE IN ACCORDANCE WITH SECTION 03000 - CONCRETE REINFORCEMENT.

3. CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 03000 - CONCRETE.

4. JOINT FILLERS SHALL BE 1/2" THICK ASPHALTIC IMPREGNATED FIBERBOARD, AND JOINT SEALANT SHALL BE POURABLE, SELF-LEVELING POLYURETHANE. JOINT SEALANT EQUAL TO SONIC ST-PR-1.

5. PLACE CONCRETE, SCREED, AND WOOD FLAT SURFACES TO A SMOOTH AND UNIFORM FINISH. FREE OF OPEN TEXTURING AND EXPOSED AGGREGATE. PROVIDE EXPOSED SURFACES WITH A LIGHT BROOD FINISH.

6. APPLY APPROVED CURING COMPOUND ON FINISHED SURFACES IMMEDIATELY AFTER PLACEMENT. APPLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

7. CONTROL AND CONSTRUCTION JOINTS IN CONCRETE SHALL BE AS INDICATED ON THE PLANS OR AS PLACED. CONTROL JOINTS SHALL BE CAST OR TOLED TO A MINIMUM DEPTH OF 1-1/2" X 1/4" WIDE. CONSTRUCTION JOINTS SHALL BE AS DETAILED AND LOCATED NOT MORE THAN 50 FEET APART.

8. SAW CUT CONTROL JOINTS, IF USED, SHALL BE MADE AS SOON AS CONCRETE HAS HARSHENED TO A MAXIMUM OF 1/2" THICK. SAWING WITHIN 24 HOURS OF PLACEMENT. CONTROL JOINTS SHOULD BE COMPLETED BEFORE UNCONTROLLED SHRINKAGE CRACKING OCCURS. LOCATE JOINTS NOT MORE THAN 15 FEET ON CENTER.

9. TOLLED CONTROL JOINTS ON SIDEWALKS AND PATIOS SHALL BE A MINIMUM OF 1/4" WIDE, 1/2" DEEP, NOT MORE THAN 6 FEET ON CENTER.

10. PROHIBIT ANY VEHICLES FROM USE OF PAVEMENT FOR A MINIMUM OF SEVEN DAYS AFTER PLACEMENT.

## 02030 PAVEMENT MARKINGS AND ACCESSORIES

1. PAVEMENT MARKING PAINT: ALKYD-BASE TRAFFIC PAINT EQUAL TO ONE OF THE FOLLOWING:

A. SHERWIN-WILLIAMS "PROMARK" TRAFFIC MARKING PAINT\*

B. BRIGHTLINE TRAFFIC MARKING PAINT\*

C. GLIDDEN TRAFFIC ZONE PAINT\*

2. PARKING STALL MARKERS SHALL BE 6" WIDE BY 6" HIGH, 7/8" LONG, SEMI-CIRCULAR IN CROSS SECTION. APPROVED CONFIGURATION. PROVIDE WITH WORDS "NO PARKING" AND DOWELING TO PAVEMENT.

3. PRECAST CONCRETE PARKING BUMPERS SHALL BE 6" WIDE BY 6" HIGH, 7/8" LONG, SEMI-CIRCULAR IN CROSS SECTION. APPROVED CONFIGURATION. PROVIDE WITH WORDS "NO PARKING" AND DOWELING TO PAVEMENT.

4. INSTALL PARKING BUMPERS AS INDICATED ON THE DRAWINGS, USING 5/8" STEEL DOWELS GROUTED 4" INTO PAVEMENT AND COUNTERSUNK DOWELS 1/2" TO 3/4" BELOW TOP OF SURFACE OF WHEEL STOP.

DIRECTIONAL ARROW SHALL BE AS DETAILED IN YELLOW.

## 02035 FENCES AND GATES

1. TYPE AND MATERIAL: 6 FT. HIGH FLUSH WOOD FENCE, 1 X 6 CLEAR CEDAR PLANKS ON 2 X 4 TREATED WOOD STRAIGHTERS AS 1/4" OC. MEDIUM SPACING. POSTS SHALL BE 2 1/2" DIA X 10 FT. LONG GALVANIZED STEEL PIPE, SPACED AS INDICATED ON DRAWINGS, SET IN A CONCRETE FOOTING.

2. FASTENERS: GALVANIZED THRU-BOLTS FOR STRINGER ATTACHMENT TO POSTS, AND GALVANIZED NAILS FOR BOARD ATTACHMENT TO STRINGERS.

3. GATE FRAME: 2' X 2' X 3/16" STEEL ANGLES AS INDICATED ON DRAWINGS, WITH CUSTOM STEEL HINGES AND CANE BOLTS. PAINT TO MATCH METAL CANOPY.

4. INSTALL GATES: PLUMB, LEVEL, AND SECURE FOR FULL OPENING WITHOUT INTERFERENCE. ADJUST HARDWARE FOR SMOOTH OPERATION AND LUBRICATE WHERE NECESSARY.

**DIVISION 3 CONCRETE**

## 03000 CONCRETE REINFORCEMENT

1. REINFORCING STEEL SHALL BE FABRICATED, DETAILED, PLACED AND STORED IN STRICT CONFORMANCE WITH ACI 318-95, THE AMERICAN CONCRETE INSTITUTE'S CODE FOR INTERNAL CONCRETE STRUCTURES AND THE 1995 EDITION OF THE STANDARD PRACTICE (LATEST EDITION).

2. REINFORCING BARS SHALL BE ASTM A-615, NEW BILLET STEEL. STIRRUPS AND TIE TO BE GRADE 40 AND ALL OTHER REINFORCING TO BE GRADE 60.

3. METAL ACCESSORIES, INCLUDING ALL SPACERS, CHARS, BOLSTERS, TIES, ETC., SHALL BE GALVANIZED WHERE LEGS WILL BE EXPOSED IN FINISHED CONCRETE SURFACES, AND SHALL CONFORM TO REQUIREMENTS OF THE CONCRETE REINFORCED CONCRETE INSTITUTE (C.R.C.I.) STANDARD OF PRACTICE FOR INTERNAL CONCRETE STRUCTURES.

4. ACCURATELY PLACE AND SECURELY SADDLE-TIE REINFORCEMENT AT EVERY INTERSECTION WITH NO 18 GAUGE BLACK ANNEALED WIRE AND HOLD RIGIDLY IN PLACE DURING THE PLACING OF CONCRETE.

**03030 CAST-IN-PLACE CONCRETE**

1. CONCRETE WORK SHALL BE EXECUTED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE'S BUILDING CODE, (ACI-318).

2. FURNISH AND PLACE CONCRETE, TROWEL FINISH ALL CONCRETE WITHIN BUILDING ENCE, CURE CONCRETE WITH APPROVED COMPOUND AND KEEP WET FOR SEVEN (7) DAYS. PROTECT FROM RAIN AND EXPOSURE TO SUN AND WIND.

3. CONCRETE MATERIALS SHALL BE AS FOLLOWS:

A. PORTLAND CEMENT: ASTM C-150, TYPE I OR 2.

B. FINE AGGREGATE: ASTM C-33, NATURAL OR RIVER SAND.

C. COURSE AGGREGATE: ASTM C-33, COARSE SAND.

D. WATER: APPROVED POTABLE WATER SYSTEM.

E. ADMIXTURES: AIR ENTRAINMENT, ASTM C-260, POZOLANAS.

4. CONCRETE MIX SHALL BE AS FOLLOWS:

A. 2B DAY STRENGTH: 3000 PSI, 4000 PSI AT TRASH ENCLOSURE.

B. SACK CONTENT: 5 SACK MINIMUM.

C. AGGREGATE: HARD ROCK.

D. SLUMP: 5" MAXIMUM.

5. CONVEYING OF CONCRETE SHALL BE BY PUMP OR BY GRAVITY FLOW, AND ALUMINUM CHUTES ARE NOT PERMITTED.

6. TEMPERATURE SHALL BE MINIMUM OF 40 DEGREES F AND RISING. MAINTAIN AT 50 DEGREES F FOR SEVEN DAYS. NO CHEMICAL ADMIXTURES FOR PREVENTION OF FREEZING.

**DIVISION 4 MASONRY**

## 04001 MASONRY WORK

1. FACE BRICK: AAC BLEND #166, KING SIZE (9-5/8" X 2-3/4" X 3-5/8"), COLOR MARBLE GRAY.

2. MORTAR MATERIALS:

A. PORTLAND CEMENT: ASTM C-150 NORMAL, TYPE I, NORMAL GRAY COLOR.

B. AGGREGATES: STANDARD MASONRY TYPE: ASTM C-144 FREE AND FOREIGN MATTER.

C. HYDRATED LIME: ASTM C-207, TYPE S.

## 3. WALL TIES:

A. ADJUSTABLE LOOP TYPE, NO. DA-803, BRICK TO METAL STUDS; GALVANIZED STEEL CONSTRUCTION OF 3/16 INCH WIRE, ASTM A-82; MANUFACTURED BY DUR-D-WALL.

B. INSTANT VENEER ANCHORS AT EACH STUD AND AT 16" ON CENTER VERTICALLY; MAXIMUM WALL AREA PER ANCHOR: 100 SQ. FT.

4. MASONRY ACCESSORIES:

A. PROVIDE WEEPS AT BOTTOMS OF BRICK VENEER WALLS AND SHELF ANGLES AT MAXIMUM 28" D.C. WEPS TO EQUAL TO DUR-D-WALL NO. DA-105 CLEAR PLASTIC TUBES, 3/8" D.D. X 3-1/2".

B. FLASHING AT WALL BOTTOMS AND SHELF ANGLES SHALL BE EQUAL TO DUR-D-WALL FIBERWEB 200.

5. OTHER CONNECTORS REQUIRED FOR SECURING STRUCTURAL STEEL TO FOUNDATION AND OTHER IN-PLACE WORK.

6. METALS:

OS100 STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL COMPLY WITH THE REQUIREMENTS OF AISI SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, AWS D1.1 STRUCTURAL WELDING CODE, AND ASTM A-300 COLD-FORMED AND SEAMLESS STEEL.

2. COLD-FORMED STEEL TUBING: ASTM A-300, GRADE B STEEL WITH RED DIA'DE PRIMER, 40,000 PSI YIELD.

3. ERECTION SHALL BE IN ACCORDANCE WITH FASCO, FURNISH ANCHOR BOLTS (WITH TEMPLATES), AND OTHER CONNECTORS REQUIRED FOR SECURING STRUCTURAL STEEL TO FOUNDATION AND OTHER IN-PLACE WORK.

7. METAL FABRICATIONS:

1. CUSTOM FABRICATE FERROUS METAL ITEMS SHOWN ON THE DRAWINGS AND SCHEDULED IN THIS DIVISION. FABRICATE ALL DIMENSIONS PRIOR TO SHOP FABRICATION AND PROVIDE ALL COMPONENTS FOR PROPER ANCHORAGE PER JOB CONDITIONS AND REQUIREMENTS. ALL METAL ITEMS SHALL RECEIVE A PRIME PAINT FINISH.

2. SCHEDULE METAL FABRICATIONS:

A. SUPPORT ANGLES AND BRACES.  
B. ANGLE AND CHANNEL FRAMES.  
C. DOOR TRIM.  
D. PIPE BOLLARDS.

OS2000 METAL ROLLERS:

1. CASTER ROLLERS SHALL BE EQUAL TO YESTER, COLOR: YESTER PAINT GLOSS FINISH. COLORS SHALL BE YELLOW/PANTONE 109C AND REIK/PANTONE 199C.

2. CASTER ROLLERS SHALL BE ACCURATELY ROLL FORMED FROM 24 GA. CARBON STEEL WITH A 600 GALVANIZED COATING AND A WHITE GLOSS, BAKED POLYESTER PAINTED FINISH (EMBOSS).

3. GUTTER/FASCIA SHELL SHALL BE EQUAL TO "VENTAIRE" - 6" DEEP X 5" X 3" ROLL FORMED FROM 24 GA. CARBON STEEL WITH A 600 GALVANIZED COATING AND A WHITE GLOSS, BAKED POLYESTER PAINTED FINISH.

4. GUTTER CHANNELS SHALL BE "VENTAIRE" SHELL ROLL FORMED CHANNELS. CHANNELS SHALL BE ACCURATELY ROLL FORMED FROM 26GA CARBON STEEL AS PER SONIC DRAWINGS WITH A 600 GALVANIZED COATING.

5. GUTTER TRIM SHALL BE "VENTAIRE" SHELL ROLL FORMED CHANNELS. CHANNELS SHALL BE ACCURATELY ROLL FORMED FROM 26GA CARBON STEEL AS PER SONIC DRAWINGS WITH A 600 GALVANIZED COATING.

6. GUTTER TRIM SHALL BE "VENTAIRE" SHELL ROLL FORMED CHANNELS. CHANNELS SHALL BE ACCURATELY ROLL FORMED FROM 26GA CARBON STEEL AS PER SONIC DRAWINGS WITH A 600 GALVANIZED COATING.

7. GUTTER TRIM SHALL BE "VENTAIRE" SHELL ROLL FORMED CHANNELS. CHANNELS SHALL BE ACCURATELY ROLL FORMED FROM 26GA CARBON STEEL AS PER SONIC DRAWINGS WITH A 600 GALVANIZED COATING.

8. GUTTER TRIM SHALL BE "VENTAIRE" SHELL ROLL FORMED CHANNELS. CHANNELS SHALL BE ACCURATELY ROLL FORMED FROM 26GA CARBON STEEL AS PER SONIC DRAWINGS WITH A 600 GALVANIZED COATING.

9. GUTTER TRIM SHALL BE "VENTAIRE" SHELL ROLL FORMED CHANNELS. CHANNELS SHALL BE ACCURATELY ROLL FORMED FROM 26GA CARBON STEEL AS PER SONIC DRAWINGS WITH A 600 GALVANIZED COATING.

10. GUTTER TRIM SHALL BE "VENTAIRE" SHELL ROLL FORMED CHANNELS. CHANNELS SHALL BE ACCURATELY ROLL FORMED FROM 26GA CARBON STEEL AS PER SONIC DRAWINGS WITH A 600 GALVANIZED COATING.

11. GUTTER TRIM SHALL BE "VENTAIRE" SHELL ROLL FORMED CHANNELS. CHANNELS SHALL BE ACCURATELY ROLL FORMED FROM 26GA CARBON STEEL AS PER SONIC DRAWINGS WITH A 600 GALVANIZED COATING.

12. GUTTER TRIM SHALL BE "VENTAIRE" SHELL ROLL FORMED CHANNELS. CHANNELS SHALL BE ACCURATELY ROLL FORMED FROM 26GA CARBON STEEL AS PER SONIC DRAWINGS WITH A 600 GALVANIZED COATING.

13. GUTTER TRIM SHALL BE "VENTAIRE" SHELL ROLL FORMED CHANNELS. CHANNELS SHALL BE ACCURATELY ROLL FORMED FROM 26GA CARBON STEEL AS PER SONIC DRAWINGS WITH A 600 GALVANIZED COATING.

14. GUTTER TRIM SHALL BE "VENTAIRE" SHELL ROLL FORMED CHANNELS. CHANNELS SHALL BE ACCURATELY ROLL FORMED FROM 26GA CARBON STEEL AS PER SONIC DRAWINGS WITH A 600 GALVANIZED COATING.

15. GUTTER TRIM SHALL BE "VENTAIRE" SHELL ROLL FORMED CHANNELS. CHANNELS SHALL BE ACCURATELY ROLL FORMED FROM 26GA CARBON STEEL AS PER SONIC DRAWINGS WITH A 600 GALVANIZED COATING.

16. GUTTER TRIM SHALL BE "VENTAIRE" SHELL ROLL FORMED CHANNELS. CHANNELS SHALL BE ACCURATELY ROLL FORMED FROM 26GA CARBON STEEL AS PER SONIC DRAWINGS WITH A 600 GALVANIZED COATING.

1.1 THIS CONTRACTOR SHALL FURNISH ALL MATERIALS AND LABOR FOR A COMPLETE INSTALLATION OF THE MECHANICAL SYSTEM TO THE FULL EXTENT SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.

1.2 ALL FEES, PERMITS, TAXES, ETC. SHALL BE PAID BY THIS CONTRACTOR.

1.3 THIS CONTRACTOR SHALL FURNISH AND INSTALL THE EQUIPMENT AS SPECIFIED, OR SUBMIT HIS PROPOSED EQUIPMENT LIST, APPROVED AND STAMPED, WITHIN SIX (6) COPIES OF A BOUND BROCHURE CONTAINING CATALOG SHEETS OF ALL PROPOSED PRODUCTS.

1.4 THIS CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS BEFORE SUBMITTING HIS BID ON THE PROJECT. ANY DISCREPANCIES WITH THE PLANS AND SPECIFICATIONS WHICH ARE NOT KNOWN TO THE CONSTRUCTION MANAGER AT THE TIME OF BIDDING, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IN WRITING.

1.5 THIS CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.

1.6 FOR A COMPLETE LIST OF OWNER FURNISHED EQUIPMENT, CONTACT CONSTRUCTION MANAGER.

## PART 2 - PRODUCTS

## 2.1 PIPING

ALL PIPING SHALL BE RUN SUBSTANTIALLY AS SHOWN ON THE DRAWINGS.

A. DOMESTIC HOT &amp; COLD WATER PIPING, SHALL TYPE "L" HARD DRAWN COPPER TUBING INSIDE THE BUILDING AND TYPE "K" SOFT COPPER BELOW SLAB. JOINTS PERMITTED BELOW SLAB IF SILVER SOLDER IS USED IN THE JOINTS. PROTECT PVC ON COPPER PIPING FROM CONTACT WITH CONCRETE.

B. SANITARY SOIL AND WASTE PIPING, ALL SANITARY SOIL AND WASTE PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC WHERE ALLOWED BY CODE, WHERE PVC IS NOT ALLOWED BY CODE, PROVIDE STANDARD WEIGHT CAST IRON SOIL PIPE AND FITTINGS.

C. VENT PIPING, ALL VENT PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC WHERE ALLOWED BY CODE, WHERE PVC IS NOT ALLOWED BY CODE, PROVIDE STANDARD WEIGHT CAST IRON SOIL PIPE AND FITTINGS.

D. GAS PIPING, GAS PIPING ABOVE GRADE SHALL BE BLACK STEEL PIPE SCHEDULE 40 PVC INSIDE THE BUILDING SHALL BE WELDED OR MALLEABLE IRON SCREWED AT THE CONTRACTOR'S OPTION. PROVIDE A 1/2" GAS LINE IN THE BUILDING. PROVIDE A 1/2" GAS LINE IN THE BASEMENT. PROVIDE A 1/2" GAS LINE ENTERS THE BUILDING. INSTALL A GAS COCK FOR EACH INDIVIDUAL APPLIANCE OR PIECE OF EQUIPMENT INSTALLED. A UNION SHALL BE INSTALLED BETWEEN THE GAS COCK AND THE EQUIPMENT INSTALLED.

E. GAS PIPING BELOW GRADE, SHALL BE BLACK STEEL SCHEDULE 40 WITH ALL WELDED FITTINGS. ALL GAS PIPING SHALL BE SCADED COATED AND WRAPPED. Joints shall be coated and wrapped in the field. Provide insulating units at all locations where the piping comes in contact with the ground. Provide insulation units a 17 inches between the meter and the building as shown on the plans. At the contractor's option, where permitted by code, provide polyethylene pipe may be used.

F. ROOF DRAINAGE PIPING, ALL ROOF DRAIN PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC WHERE ALLOWED BY CODE, WHERE PVC IS NOT ALLOWED BY CODE, PROVIDE BLACK STEEL PIPE SCHEDULE 40. ALL FITTINGS SHALL BE EQUAL WEIGHT AND GRADE. ALL ELS SHALL BE OF THE LONG RADIUS TYPE.

G. INSULATION, FURNISH AND PLACE, EQUIPMENT INSULATION AS SPECIFIED BELOW.

A. DOMESTIC COLD WATER, ALL COLD WATER PIPING ABOVE GRADE SHALL BE INSULATED WITH GLASS FIBER PIPE INSULATION IN MOLED SECTION ONE INCH THICK WITH VAPOR BARRIER JACKET.

B. DOMESTIC HOT WATER, SHALL BE INSULATED AS DESCRIBED FOR DOMESTIC COLD WATER WHEN ABOVE SLABS AND WITH 1/2" THICK ARMALFLEX WHEN BELOW SLABS.

C. ROOF DRAINAGE PIPING, ALL HORIZONTAL RUNS OF ROOF DRAINAGE PIPING, ABOVE GRADE, SHALL BE INSULATED AS DESCRIBED FOR DOMESTIC COLD WATER.

D. PLUMBING FIXTURES, SHALL HAVE SIZE STOPS ON ALL WATER CONNECTIONS, THEY SHALL HAVE C.P. ESCUTCHIONS WHERE PIPES PASS THROUGH WALLS, THEY SHALL BE PROVIDED WITH ALL NECESSARY TRIM WHICH SHALL BE PAINTED TO MATCH THE FIXTURES. ALL STOPES SHALL HAVE 1/2" LONG CAPPED AIR CHAMBERS. FIXTURES SHALL BE WHITE UNLESS SPECIFIED OTHERWISE.

E. ROOFTOP UNITS, PROVIDE AND INSTALL ROOFTOP UNITS AS SPECIFIED. THE COOLING SECTION SHALL CONSIST OF COMPRESSORS HAVING CRANKCASE HEATERS, HEAT EXCHANGERS, AND MOTOR/FINDING THERMOSTATS. UNITS SHALL BE TESTABLE FOR OPERATION BEFORE TEMPERATURES REACHING 120°F. COMPRESSOR CAPACITIES SHALL BE LISTED FOR ELECTRICAL REQUIREMENTS. EVAPORATOR COUPLES SHALL HAVE PERMANENTLY LUBRICATED BALL BEARING MOTORS. MOTORS SHALL HAVE THERMAL OVERLOAD PROTECTION. COMPRESSOR COUPLES SHALL BE LISTED FOR ELECTRICAL PLANS. COMPRESSOR COUPLES SHALL BE COMPLETELY ASSEMBLED, WIRED AND PIPIED, CERTIFIED BY AGA FOR OUTDOOR APPLICATION. SECTION SHALL CONTAIN FACTORY TESTED HEAT EXCHANGER HUMIDIFIER, AND COMBINATION BLower OF STANDARD. ROOFTOP UNITS SHALL BE DIRECT DRIVE WITH PERMANENTLY LUBRICATED BALL BEARING MOTORS HAVING THERMAL OVERLOAD PROTECTION. FAIRING SHALL BE LISTED. LISTED OUTDOOR SERVICES, UNITS SHALL BE PROVIDED WITH MINIMUM FAIRING. FAIRING SHALL BE LISTED OUTDOOR SERVICES, UNITS SHALL BE PROVIDED WITH COMPLETE ROOF CURPS. CONTROLS SHALL INCLUDE CONDENSER FAIR, EVAPORATOR FAIR, AND COMPRESSOR CONTROLLERS AND 24-VOLT TRANSFORMERS. PROVIDE AN ADJUSTABLE LOW VOLTAGE THERMOSTAT WITH "HEAT-OFF" CIRCUIT AND AUTOMATIC THERMOSTAT. FAIRING SHALL BE LISTED FOR ELECTRICAL PLANS. FAIRING WILL BE PROVIDED BY THE ELECTRICAL PLANS. ALL OTHER WIRING SHALL BE PROVIDED BY THE CONTRACTOR. CAPACITIES AND FURTHER SPECIFICATIONS SHALL BE AS SHOWN ON PLANS.

F. THE ROOF TOP UNITS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE ABOVE GUIDE.

G. RECTANGULAR SUPPLY AND RETURN DUCTS SHALL HAVE 1/2" THICK DUCT LINER INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. RECTANGULAR SIZES SHOWN ARE SHEET METAL SIZES. ROUND DUCTS SHALL HAVE 1/2" THICK DUCT LINER INSTALLED IN ACCORDANCE WITH THE ABOVE GUIDE. ROUND DUCTWORK IS SHOWN. RECTANGULAR MAY BE USED PROVIDED THE INSIDE FREE AREA IS NOT REDUCED. HOWEVER, THE FIRST 5' ON THE SUPPLY AND RETURN FROM A UNIT MUST BE LISTED DUCTWORK. ROUND DUCTWORK MAY BE PROVIDED AS SHOWN. DUCTS SHALL BE TESTED FOR LEAKAGE.

H. Ductwork, ducts, shall be furnished and installed as shown. Ducts shall be white or white unless specified otherwise. Model numbers are for devices manufactured by Krueger.

I. HEAT EXHAUST &amp; MAKE-UP AIR SYSTEM, FAIR, DUCT CURBS, AND EXHAUST DUCT TRANSITIONS ARE FURNISHED BY THE OWNER, AND INSTALLED BY THE CONTRACTOR. COORDINATE WITH THE CONSTRUCTION MANAGER FOR DELIVERY AND INSTALLATION REQUIREMENTS. FAIRING SHALL BE LISTED. DUCT CURBS SHALL BE 16 GAUGE STEEL, WITH 1/2" THICK DUCT LINER. FAIRING SHALL BE AS DESCRIBED ABOVE. IN PARTS 1 &amp; 2 OF THE RECTANGULAR SUPPLY AIR DUCTWORK. THE ENTIRE EXHAUST AND MAKE-UP SYSTEM SHALL BE BALANCED BY AN INDEPENDENT ASSESSOR, OR NEBB CERTIFIED BALANCE CONTRACTOR. THE BALANCE CONTRACTOR SHALL PROVIDE ALL REFERENCES TO THE OWNER AND SHALL PROVIDE A REPORT OF THE BALANCED SYSTEM ON STANDARD NEBB FORM.

J. EXHAUST HOOD FIRE SUPPRESSION. EXHAUST HOOD WILL BE FURNISHED BY OWNER. EXHAUST HOOD WILL BE PROVIDED WITH ANSUL FIRE EXTINGUISHING NOZZLES, AND BY THE CONTRACTOR PROVIDED FIRE SUPPRESSION SYSTEM EQUAL TO ANSI R-108 WITH ALL RELATED ITEMS REQUIRED FOR A COMPLETE INSTALLATION. SYSTEM SHALL BE DESIGNED TO CONFORM WITH NFPA &amp; ALL APPLICABLE CODES AND REGULATIONS.

K. EQUIPMENT SHALL BE TESTED FOR PROPER OPERATION TO INCLUDE THE BALANCING AND ADJUSTMENT OF THE SYSTEM TO THE COMPLETE SATISFACTION OF THE CONSTRUCTION MANAGER AND OWNER.

## END OF DIVISION 15 SPECIFICATIONS

## DIVISION 16 - ELECTRICAL SPECIFICATIONS

## SECTION 1601 - BASIC ELECTRICAL REQUIREMENTS

## PART 1 - GENERAL

## 1.1 ELECTRICAL CONTRACTOR QUALIFICATIONS

A. THE ELECTRICAL CONTRACTOR SHALL BE A COMPANY OF FIVE ENGAGED IN THE BUSINESS OF ELECTRICAL EXPERIENCE IN THE FIELD OF ELECTRICAL CONTRACTING. THE FIRM SHALL HAVE COMPLETED A MINIMUM OF FIVE (5) PROJECTS SIMILAR IN SIZE AND SCOPE TO THIS PROJECT.

## 1.2 DESCRIPTION OF THE ELECTRICAL WORK

A. THE CONTRACTOR SHALL FURNISH LABOR, MATERIALS, APPLIANCES, EQUIPMENT, TOOLS, TRANSPORTATION, SUPERVISION AND LABOR REQUIRED TO CONSTRUCT AND COMPLETE, OPERATE IN ACCORDANCE WITH THE TRUE INTENT OF THE DRAWINGS AND SPECIFICATIONS. THE ELECTRICAL SYSTEM AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS.

B. INSTALLED ALL ELECTRICAL CONDUITS, CABLES, LIGHTING, WITH CONDUIT AND BOXES ONLY FOR TELEPHONE, COMPUTER, AND MONITOR LOCATIONS AS SHOWN ON PLANS. TELEPHONE CONDUIT TO BE MADE IN ROUGH-IN AND FINISH CONNECTIONS TO REFRIGERATION, EXHAUST AND INTAKE FANS, AND MENU LIGHTS. COMPUTER CONDUIT TO BE MADE IN ROUGH-IN AND FINISH CONNECTIONS TO THE CONSTRUCTION MANAGER.

C. MAKE THE ROUGH-IN AND FINISH CONNECTIONS TO REFRIGERATION, EXHAUST AND INTAKE FANS, AND MENU LIGHTS. COMPUTER CONDUIT TO BE MADE IN ROUGH-IN AND FINISH CONNECTIONS TO THE CONSTRUCTION MANAGER.

D. INSTALLED THE CONDUITS FOR MUSIC SYSTEM AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY OWNER.

E. THE CONDUITS AND MENU ASSEMBLIES SHALL BE FURNISHED BY THE OWNERS. THE ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO PUT WIRES AND HOOK UP THE MENU LIGHTS. ONE MENU UNIT WILL BE LOCATED AT EACH STEEL TABLE. WIRES SHALL BE INSTALLED IN THE STEEL TABLE HOLE. AFTER THE NOTICE TO PROPOSE IS ISSUED, THE ELECTRICAL CONTRACTOR SHALL CONTACT THE LOCAL ELECTRICAL UTILITY COMPANY REPRESENTATIVE AND COORDINATE THE INSTALLATION OF THE ELECTRICAL SERVICE FOR THE ELECTRICAL HOOK UPS. CONDUIT FOR THE MENU LIGHTS SHALL BE ELECTRICAL CONDUIT BROWN AND INSTALLED BY C. Y. AND RON INSTRUCTION. TUBING FURNISHED BY CANISTER CONTRACTOR.

F. THE ELECTRICAL CONTRACTOR WILL BE REQUIRED TO FURNISH CONDUIT, CIRCUITS, WIRING, AND HOOK UP THE FRONT SIGN, AND THE EXHAUST EXHAUST AND MAKE-UP DUCTS FOR THE WALK-IN FREEZER/REFREEZER BOX, CURBS AND FAIR. PROVIDE THE WIRING AND HOOK UPS FOR THE WALK-IN FREEZER/REFREEZER BOX, CURBS AND FAIR. SWITCHES AND FIXTURES FOR W/I UNITS ARE FURNISHED BY THE OWNERS. SEE AREA OF RESPONSIBILITY FOR ELECTRICAL CONTRACTOR FOR THE EXHAUST AND MAKE-UP SYSTEM. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SHUNT TRIP BREAKERS, OR CONDUCTORS, FOR FOUR PIECES OF EQUIPMENT (3 FRYERS &amp; 1 GRIDDLE), WHICH ARE UNDER THE EXHAUST HOOD. LOCATIONS OF THE SHUNT TRIP BREAKERS AS PER LOAD CENTER, ARE AS PER LOAD CENTER. APPROVAL AND STAMP OF NFPA 70, AND THE FIRE MARSHAL'S MICROSWITCH TO BE FURNISHED BY THE FIRE EXTINGUISHER CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL HIDE THE EXHAUST HOOD AND THE EXHAUST DUCTS WITH SHUNT BREAKERS, OR CONDUCTORS. SHANTS TO BE USED AS RELEASER AS THE REPLACED BREAKERS. THE CONTRACTOR SHALL FURNISH AND INSTALL THE EXHAUST HOOD AND THE EXHAUST DUCTS AT FRONT OF THESE SPECIFICATIONS.

G. OWNER SHALL FURNISH AND INSTALL MUSIC SPEAKER AND WIRE TO SPEAKER LOCATIONS AND SHALL ALSO FURNISH WIRING TO ALL MENU SPEAKERS. REF. "SPECIALTY ITEMS" IN FRONT OF SPECIFICATIONS.

H. DRAWINGS AND SPECIFICATIONS

A. THE DRAWINGS AND SPECIFICATIONS HAVE BEEN MADE TO FORM THE BASIS FOR THE INSTALLATION OF THIS CONTRACTOR'S WORK. THE DRAWINGS AND SPECIFICATIONS SHALL BE CONSIDERED AS MUTUALLY EXPLANATORY, AND ANY WORK REQUIRED BY ONE, BUT NOT BY THE OTHER, WILL BE PROVIDED BY THE OTHER.

B. THESE DRAWINGS AND SPECIFICATIONS ARE PRESUMED TO BE ACCURATE, BUT EXTREME CAREY IS NOT GUARANTEED. ANY ERRORS OR AMBIGUITIES IN THE DRAWINGS AND SPECIFICATIONS THAT ARE DISCOVERED DURING THE COURSE OF THE CONTRACTOR'S WORK SHALL BE NOTIFIED TO THE CONSTRUCTION MANAGER AS SOON AS THE WORK IS STARTED. OMISSION OR PARTICULAR REFERENCE TO ANY ITEM NEEDED FOR COMPLETE INSTALLATION AND PROPER OPERATION THEREOF SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY OF FURNISHING AND PROPER OPERATION THEREOF.

C. IN CASE OF A DISPUTE CONCERNING THE TRUE INTENT AND MEANING OF THESE DRAWINGS AND SPECIFICATIONS, THE CONSTRUCTION MANAGER SHALL INTERPRET THE SAME, AND HIS INTERPRETATION SHALL BE ACCEPTED.

D. ANY CHANGES TO THE WORK UNDER THIS CONTRACT FROM THAT SHOWN ON THE DRAWINGS TO MAKE THE WORK CONFORM TO THE STRUCTURE, TO FIT THE WORK OF OTHER TRADES, OR ALTERNATE METHODS OF INSTALLATION PREFERRED BY THE CONTRACTOR, SHALL BE SUBMITTED TO THE CONSTRUCTION MANAGER FOR HIS APPROVAL BEFORE ANY deviations ARE MADE.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL THE EQUIPMENT AS SPECIFIED, OR SUBMIT HIS PROPOSED EQUIPMENT LIST, APPROVED AND STAMPED, WITHIN SIX (6) COPIES OF A BOUND BROCHURE CONTAINING CATALOG SHEETS OF ALL PROPOSED PRODUCTS.

F. THIS CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS BEFORE SUBMITTING HIS BID ON THE PROJECT. ANY DISCREPANCIES WITH THE PLANS AND SPECIFICATIONS WHICH ARE NOT KNOWN TO THE CONSTRUCTION MANAGER AT THE TIME OF BIDDING, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IN WRITING.

G. THIS CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.

H. FOR A COMPLETE LIST OF OWNER FURNISHED EQUIPMENT, CONTACT CONSTRUCTION MANAGER.

I. THE CONTRACTOR SHALL FURNISH AND INSTALL THE EQUIPMENT AS SPECIFIED, OR SUBMIT HIS PROPOSED EQUIPMENT LIST, APPROVED AND STAMPED, WITHIN SIX (6) COPIES OF A BOUND BROCHURE CONTAINING CATALOG SHEETS OF ALL PROPOSED PRODUCTS.

J. THIS CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS BEFORE SUBMITTING HIS BID ON THE PROJECT. ANY DISCREPANCIES WITH THE PLANS AND SPECIFICATIONS WHICH ARE NOT KNOWN TO THE CONSTRUCTION MANAGER AT THE TIME OF BIDDING, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IN WRITING.

K. THIS CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.

L. FOR A COMPLETE LIST OF OWNER FURNISHED EQUIPMENT, CONTACT CONSTRUCTION MANAGER.

M. THE CONTRACTOR SHALL FURNISH AND INSTALL THE EQUIPMENT AS SPECIFIED, OR SUBMIT HIS PROPOSED EQUIPMENT LIST, APPROVED AND STAMPED, WITHIN SIX (6) COPIES OF A BOUND BROCHURE CONTAINING CATALOG SHEETS OF ALL PROPOSED PRODUCTS.

N. THIS CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS BEFORE SUBMITTING HIS BID ON THE PROJECT. ANY DISCREPANCIES WITH THE PLANS AND SPECIFICATIONS WHICH ARE NOT KNOWN TO THE CONSTRUCTION MANAGER AT THE TIME OF BIDDING, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IN WRITING.

O. THIS CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.

P. FOR A COMPLETE LIST OF OWNER FURNISHED EQUIPMENT, CONTACT CONSTRUCTION MANAGER.

Q. THE CONTRACTOR SHALL FURNISH AND INSTALL THE EQUIPMENT AS SPECIFIED, OR SUBMIT HIS PROPOSED EQUIPMENT LIST, APPROVED AND STAMPED, WITHIN SIX (6) COPIES OF A BOUND BROCHURE CONTAINING CATALOG SHEETS OF ALL PROPOSED PRODUCTS.

R. THIS CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS BEFORE SUBMITTING HIS BID ON THE PROJECT. ANY DISCREPANCIES WITH THE PLANS AND SPECIFICATIONS WHICH ARE NOT KNOWN TO THE CONSTRUCTION MANAGER AT THE TIME OF BIDDING, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IN WRITING.

S. THIS CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.

T. FOR A COMPLETE LIST OF OWNER FURNISHED EQUIPMENT, CONTACT CONSTRUCTION MANAGER.

U. THE CONTRACTOR SHALL FURNISH AND INSTALL THE EQUIPMENT AS SPECIFIED, OR SUBMIT HIS PROPOSED EQUIPMENT LIST, APPROVED AND STAMPED, WITHIN SIX (6) COPIES OF A BOUND BROCHURE CONTAINING CATALOG SHEETS OF ALL PROPOSED PRODUCTS.

V. THIS CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS BEFORE SUBMITTING HIS BID ON THE PROJECT. ANY DISCREPANCIES WITH THE PLANS AND SPECIFICATIONS WHICH ARE NOT KNOWN TO THE CONSTRUCTION MANAGER AT THE TIME OF BIDDING, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IN WRITING.

W. THIS CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.

X. FOR A COMPLETE LIST OF OWNER FURNISHED EQUIPMENT, CONTACT CONSTRUCTION MANAGER.

Y. THE CONTRACTOR SHALL FURNISH AND INSTALL THE EQUIPMENT AS SPECIFIED, OR SUBMIT HIS PROPOSED EQUIPMENT LIST, APPROVED AND STAMPED, WITHIN SIX (6) COPIES OF A BOUND BROCHURE CONTAINING CATALOG SHEETS OF ALL PROPOSED PRODUCTS.

Z. THIS CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS BEFORE SUBMITTING HIS BID ON THE PROJECT. ANY DISCREPANCIES WITH THE PLANS AND SPECIFICATIONS WHICH ARE NOT KNOWN TO THE CONSTRUCTION MANAGER AT THE TIME OF BIDDING, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IN WRITING.

AA. THIS CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.

BB. FOR A COMPLETE LIST OF OWNER FURNISHED EQUIPMENT, CONTACT CONSTRUCTION MANAGER.

CC. THE CONTRACTOR SHALL FURNISH AND INSTALL THE EQUIPMENT AS SPECIFIED, OR SUBMIT HIS PROPOSED EQUIPMENT LIST, APPROVED AND STAMPED, WITHIN SIX (6) COPIES OF A BOUND BROCHURE CONTAINING CATALOG SHEETS OF ALL PROPOSED PRODUCTS.

DD. THIS CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS BEFORE SUBMITTING HIS BID ON THE PROJECT. ANY DISCREPANCIES WITH THE PLANS AND SPECIFICATIONS WHICH ARE NOT KNOWN TO THE CONSTRUCTION MANAGER AT THE TIME OF BIDDING, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IN WRITING.

EE. THIS CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.

FF. FOR A COMPLETE LIST OF OWNER FURNISHED EQUIPMENT, CONTACT CONSTRUCTION MANAGER.

GG. THE CONTRACTOR SHALL FURNISH AND INSTALL THE EQUIPMENT AS SPECIFIED, OR SUBMIT HIS PROPOSED EQUIPMENT LIST, APPROVED AND STAMPED, WITHIN SIX (6) COPIES OF A BOUND BROCHURE CONTAINING CATALOG SHEETS OF ALL PROPOSED PRODUCTS.

HH. THIS CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS BEFORE SUBMITTING HIS BID ON THE PROJECT. ANY DISCREPANCIES WITH THE PLANS AND SPECIFICATIONS WHICH ARE NOT KNOWN TO THE CONSTRUCTION MANAGER AT THE TIME OF BIDDING, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IN WRITING.

II. THIS CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.

JJ. FOR A COMPLETE LIST OF OWNER FURNISHED EQUIPMENT, CONTACT CONSTRUCTION MANAGER.

KK. THE CONTRACTOR SHALL FURNISH AND INSTALL THE EQUIPMENT AS SPECIFIED, OR SUBMIT HIS PROPOSED EQUIPMENT LIST, APPROVED AND STAMPED, WITHIN SIX (6) COPIES OF A BOUND BROCHURE CONTAINING CATALOG SHEETS OF ALL PROPOSED PRODUCTS.

LL. THIS CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS BEFORE SUBMITTING HIS BID ON THE PROJECT. ANY DISCREPANCIES WITH THE PLANS AND SPECIFICATIONS WHICH ARE NOT KNOWN TO THE CONSTRUCTION MANAGER AT THE TIME OF BIDDING, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IN WRITING.

MM. THIS CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.

NN. FOR A COMPLETE LIST OF OWNER FURNISHED EQUIPMENT, CONTACT CONSTRUCTION MANAGER.

OO. THE CONTRACTOR SHALL FURNISH AND INSTALL THE EQUIPMENT AS SPECIFIED, OR SUBMIT HIS PROPOSED EQUIPMENT LIST, APPROVED AND STAMPED, WITHIN SIX (6) COPIES OF A BOUND BROCHURE CONTAINING CATALOG SHEETS OF ALL PROPOSED PRODUCTS.

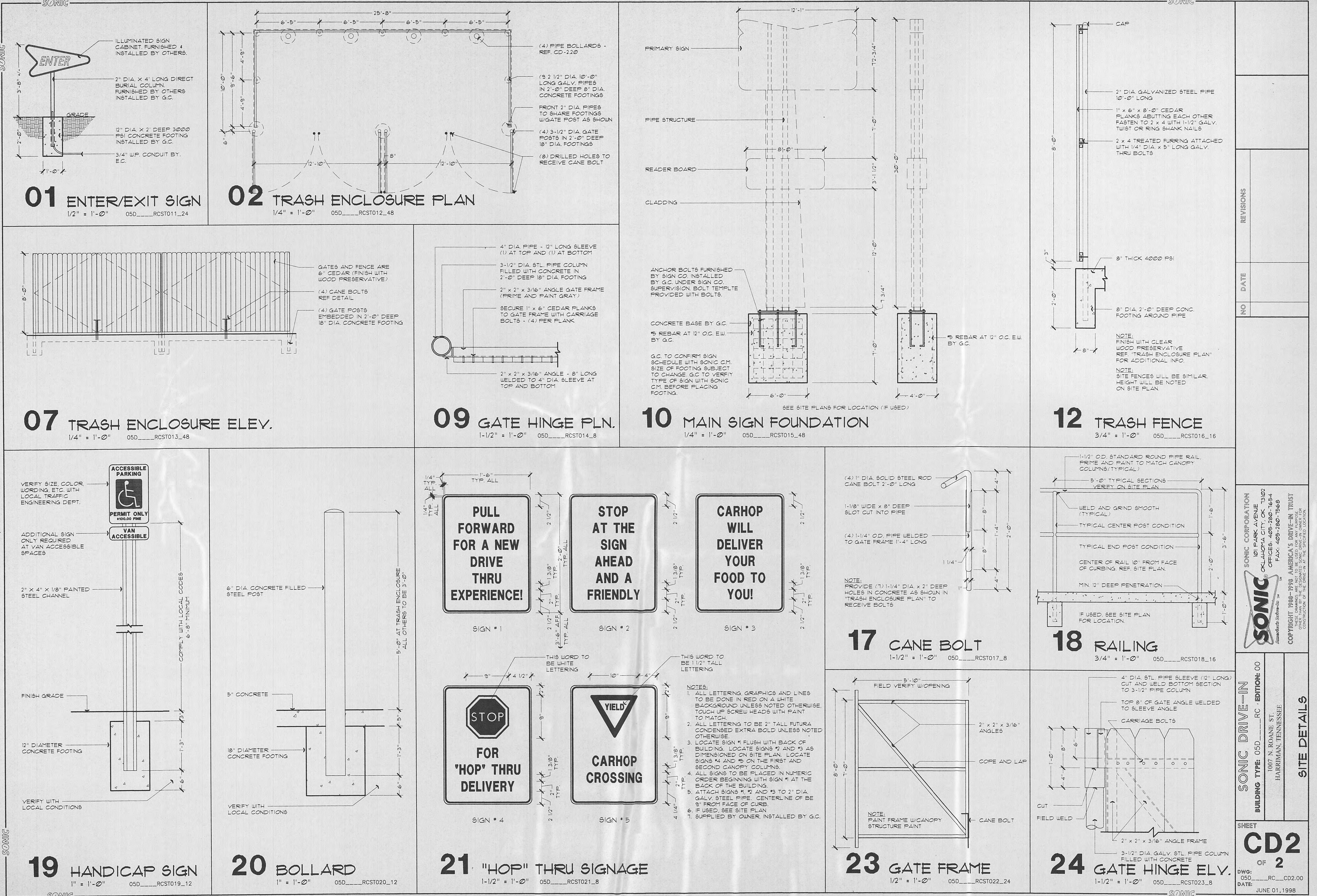
PP. THIS CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS BEFORE SUBMITTING HIS BID ON THE PROJECT. ANY DISCREPANCIES WITH THE PLANS AND SPECIFICATIONS WHICH ARE NOT KNOWN TO THE CONSTRUCTION MANAGER AT THE TIME OF BIDDING, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IN WRITING.

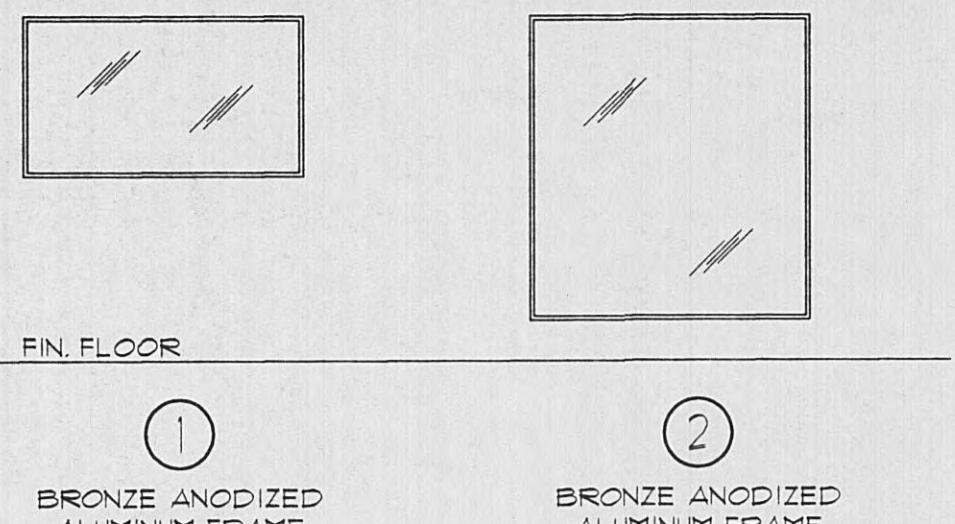
QQ. THIS CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE.

RR. FOR A COMPLETE LIST OF OWNER FURNISHED EQUIPMENT, CONTACT CONSTRUCTION MANAGER.

SS. THE CONTRACTOR SHALL F

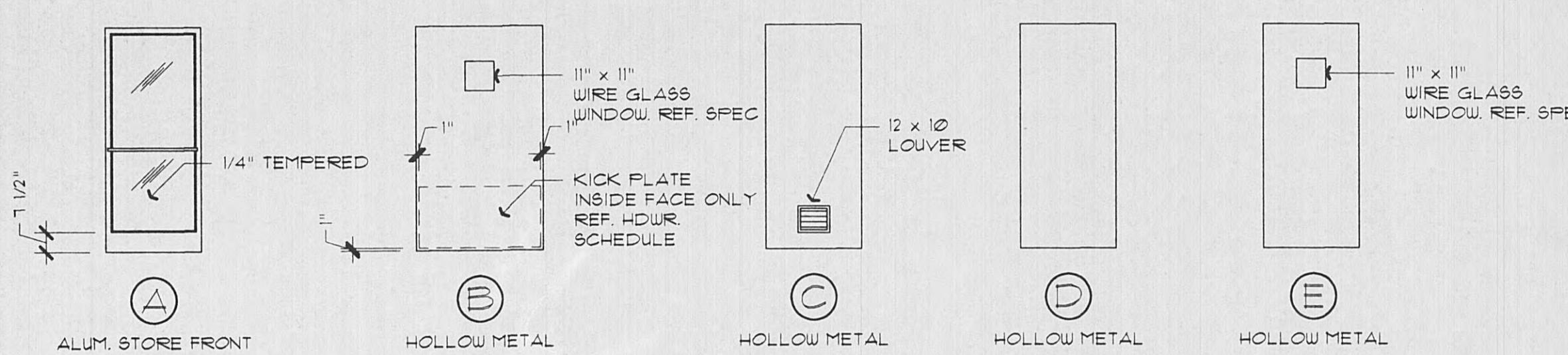






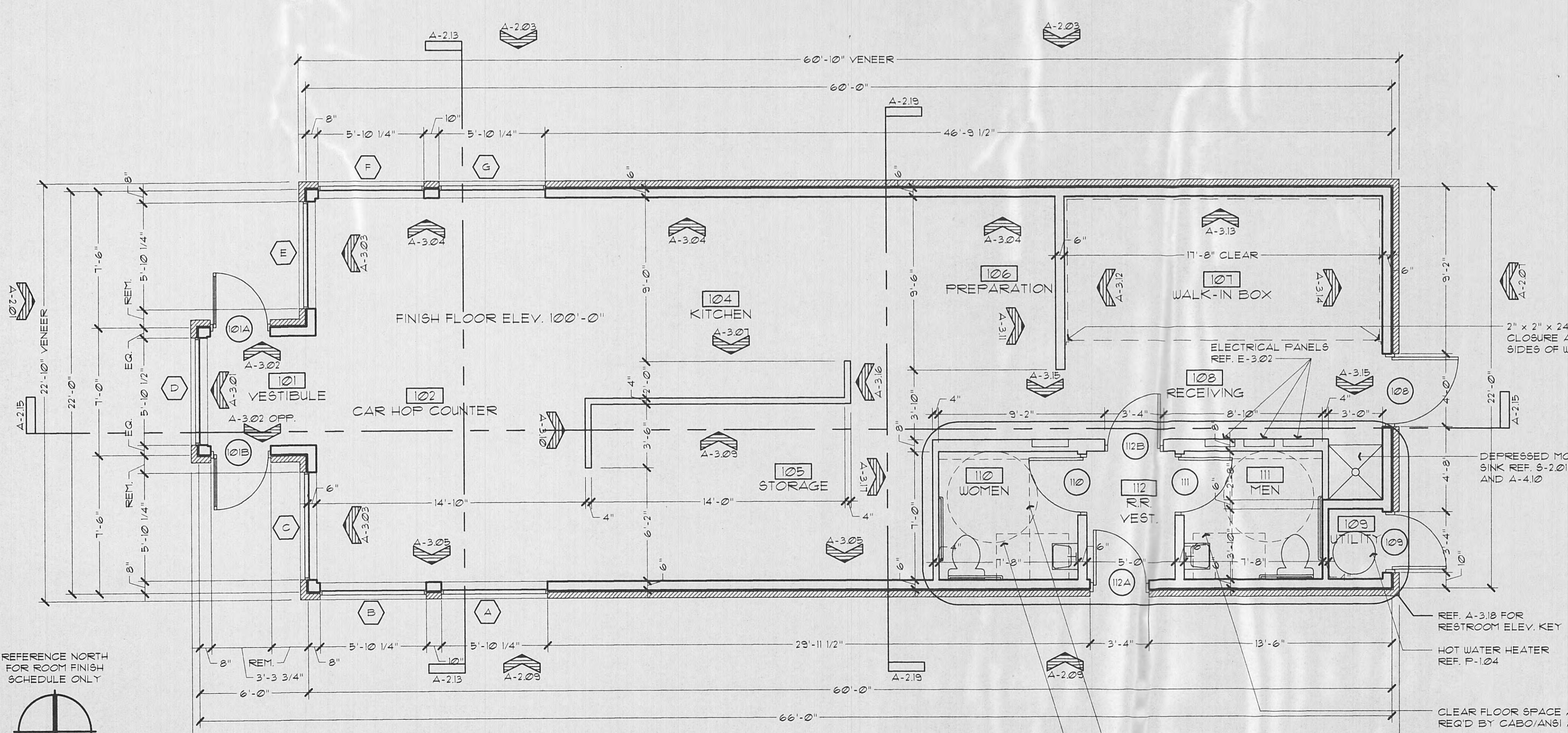
## 01 WINDOW ELEVATIONS

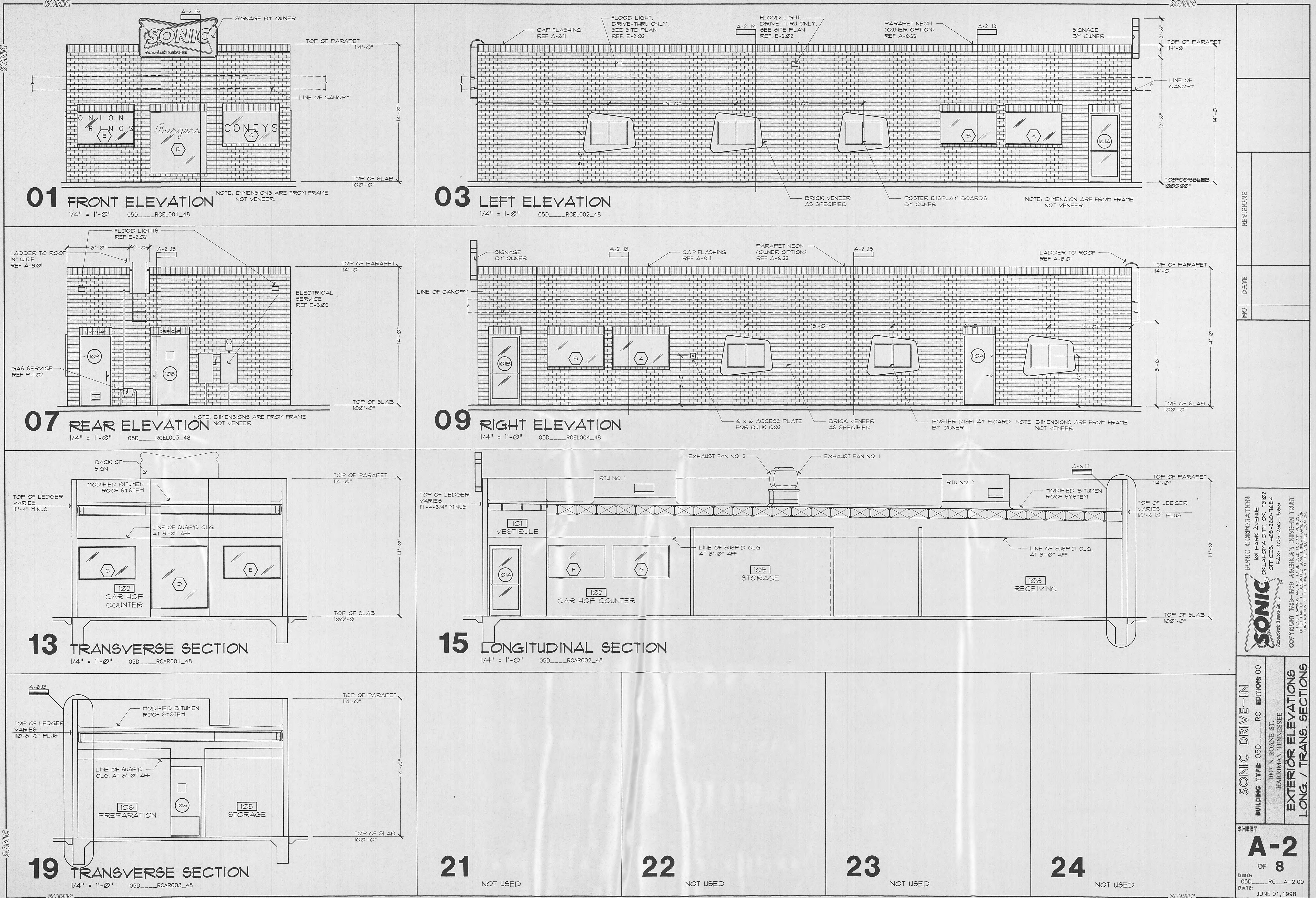
1/4" = 1'-0"

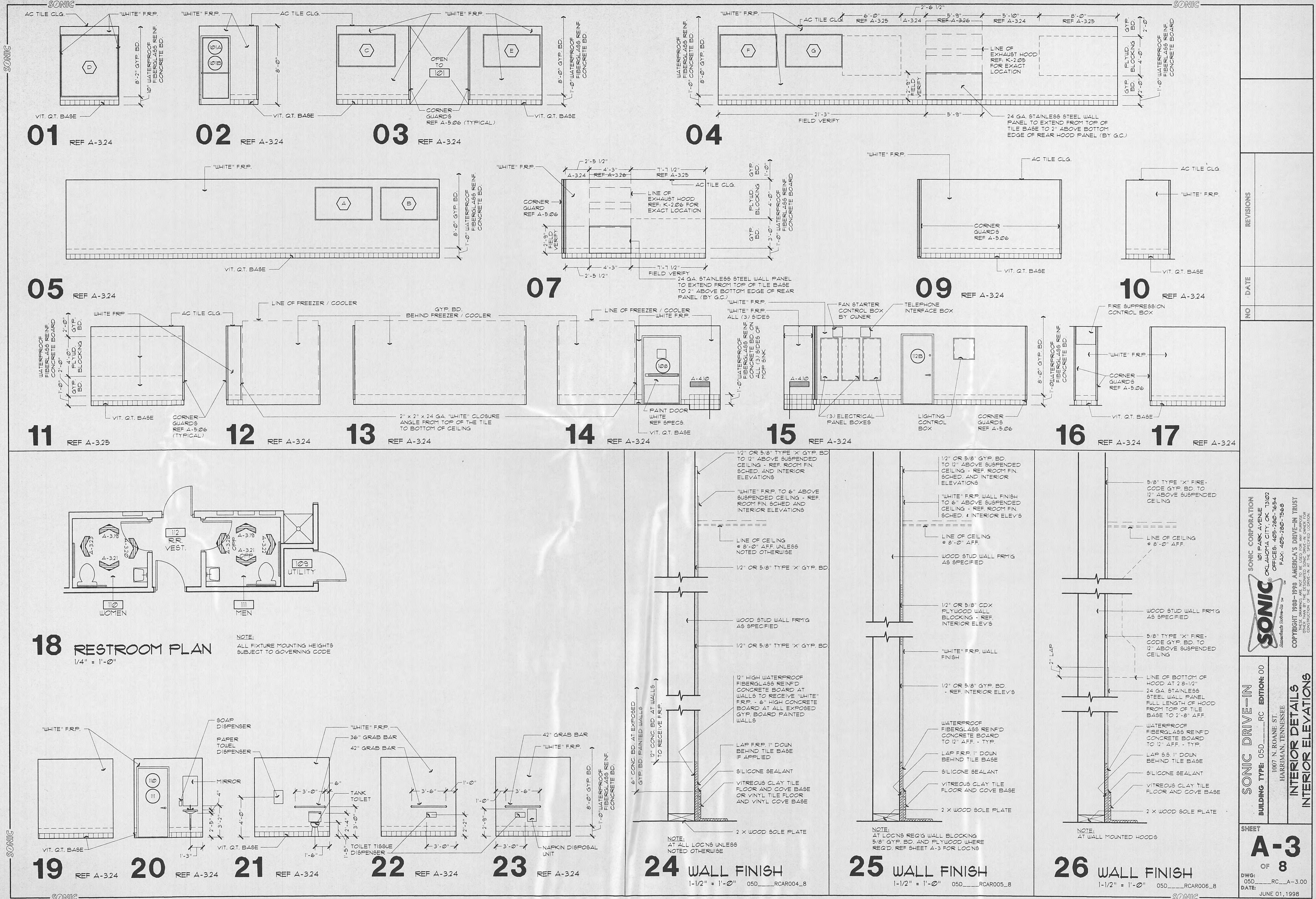


## 02 DOOR ELEVATIONS

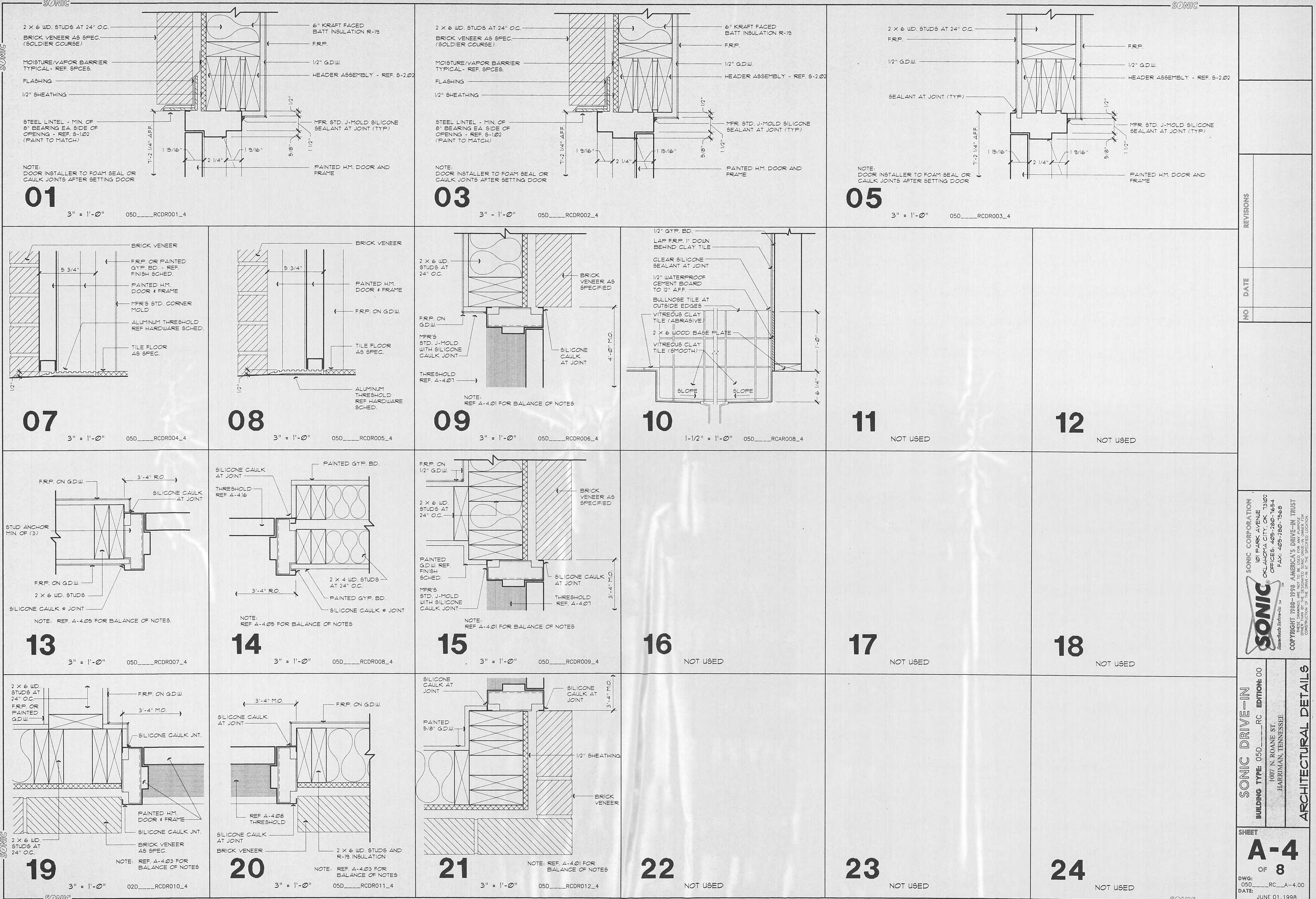
1/4" = 1'-0"







© SONIC DRIVE-IN 1990-1998 AMERICA'S DRIVE-IN TRUST  
These drawings are not to be used for any purpose other than by the designated SONIC Drive-In owner for construction of the drive-in at the specified location.



# ARCHITECTURAL DETAILS

**A-4**  
**8**  
F  
RC-A-4.00  
JUNE 01, 1998

