22941

22941

PLACE

Sub Doc Type

BL

Number LG Docs

0058

Box Number

Street #

5431

Street Dir

Doc Type

PL

Street Name

CAMDEN

Street Type

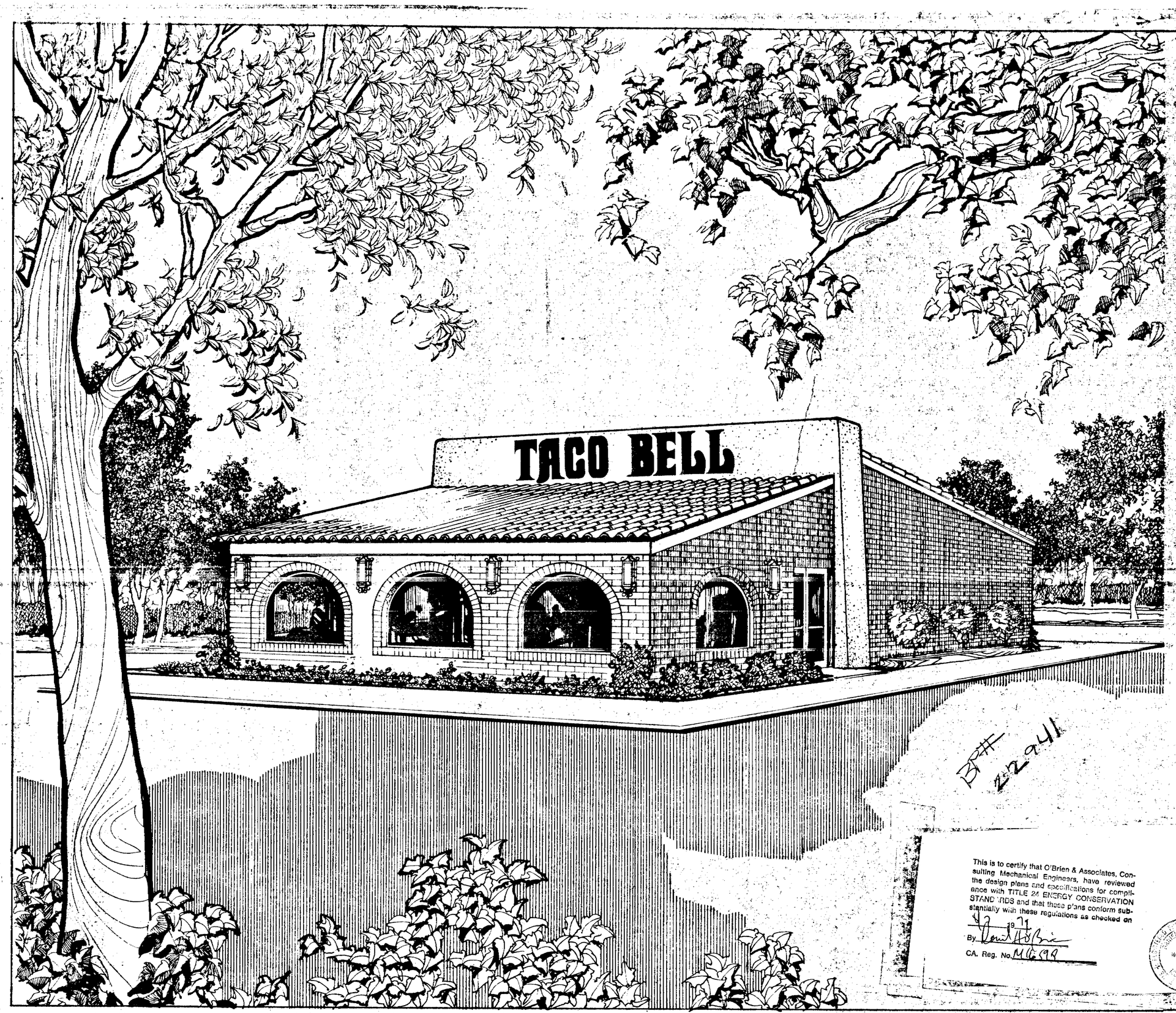
AV

Tract Number

Document Date

11/10/80

	Prepped By	Scanned By	Indexed By	Verified By
Initials	HO	Z.P		
Date	04.26.01	Y.26.1		



✓1. Public Works Clearance — Room 500
✓2. special insp. for high strength blocks req.
✓3. Water Pollution - Grease trap (SEE IF NEEDED & SEE TRAP) 263-9840 - William Miller
4. corrections shown on sheet A4

~~Permits not completed~~
FA Cover sheet

INDEX

A·1 TITLE SHEET AND INDEX
A·2 FOUNDATION PLAN AND DETAILS
A·3 FLOOR PLAN AND SCHEDULES
A·4 ROOF FRAMING PLAN AND DETAILS
A·5 ELEVATIONS AND DETAILS
A·6 BUILDING AND WALL SECTIONS
A·7 INTERIOR ELEVATIONS AND DETAILS

E·1 REFLECTED CEILING PLAN
E·2 ELECTRICAL PLAN

M·1 MECHANICAL PLAN

P·1 PLUMBING PLAN AND ISOMETRICS

EQ·1 EQUIPMENT PLAN AND DETAILS

BP# 22941

This is to certify that O'Brien & Associates, Consulting Mechanical Engineers, have reviewed the design plans and specifications for compliance with TITLE 24 ENERGY CONSERVATION STANDARDS and that these plans conform substantially with these regulations as checked on 19 71
By
CA. Reg. No. M16999

carlson/seekatz, inc.
ARCHITECTS
[illegible]
CHICAGO, ILL. [illegible]

TACO BELL
475 N. CASS AVE. SUITE [illegible]
WESTMONT, ILLINOIS [illegible]

REVISIONS
12-14-79

REGISTERED PROFESSIONAL ENGINEER
MICHAEL J. MAGORS
No. 24980
STATE OF ILLINOIS

BUILDING TYPE
29·54 SJ

TACO BELL JOB NO.

JOB NUMBER
79-20

DATE
5-25-79

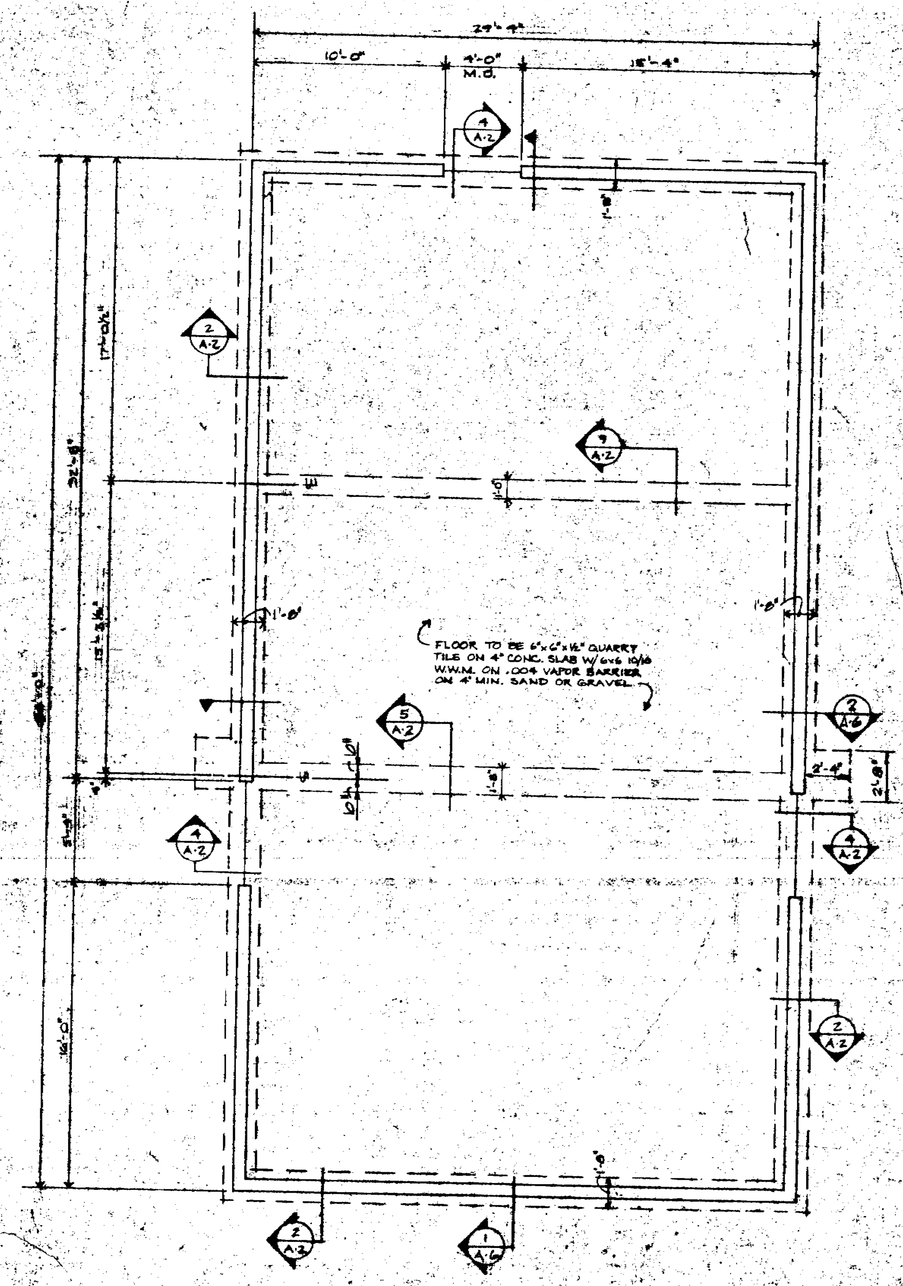
SHEET NUMBER
A·1

22941 1088

SJ Job# H79-5-126

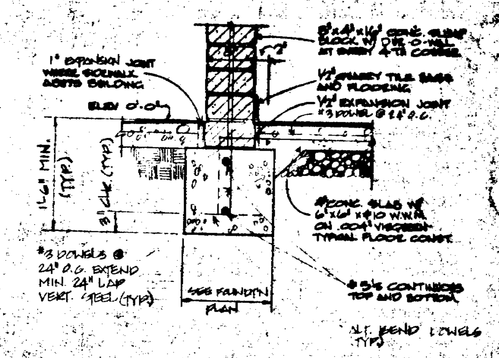
79-613

check v.5

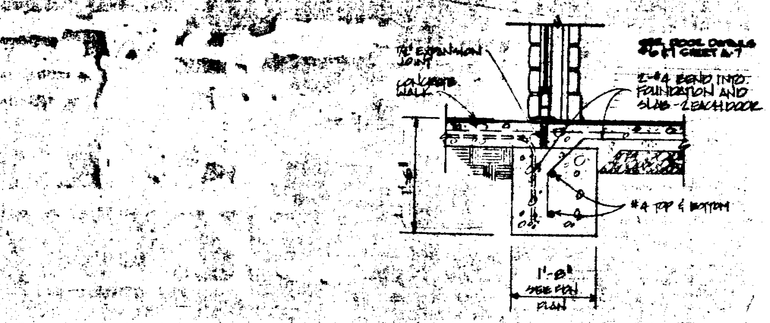


FOUNDATION PLAN
SCALE: 1/4"=1'-0"

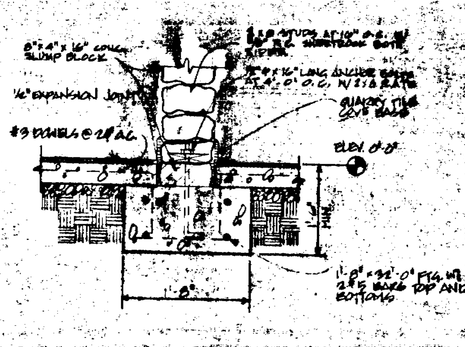
NOTE:
SEE SITE PLAN FOR LOCATION OF WALKS, CURBS, HANDICAP RAMPS, & OTHER MISC. SITE WORK.
ALL FLOOR SLABS TO BE PROPERLY PITCHED TO FLOOR DRAINS.

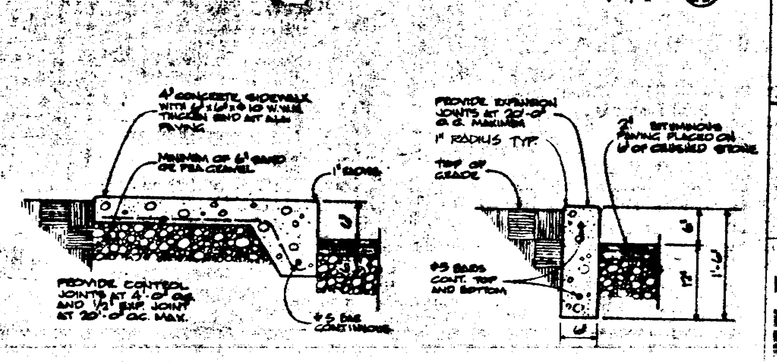


FOUNDATION AT WALL



FOUNDATION AT DOORS

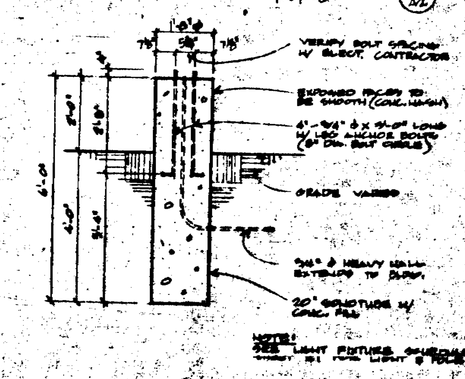




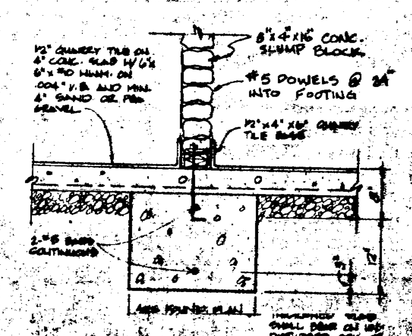
FOUNDATION @ DINING ROOM WALL

SIDEWALK DETAIL

CURB DETAIL



LIGHT POLE BASE
SCALE: 1/2"=1'-0"



THICKENED SLAB DETAIL

CARLSON/SEEKATZ, INC.
ARCHITECTS
CHICAGO ILL. ARLINGTON HTS.

TACO BELL
625 N. CASS AVE. STE. 110
WESTMONT, ILLINOIS 60559

REVISIONS
12-14-79

29941-1088

BUILDING TYPE
29-54-SJ

TACO BELL JOB NO.

JOB NUMBER
79-20

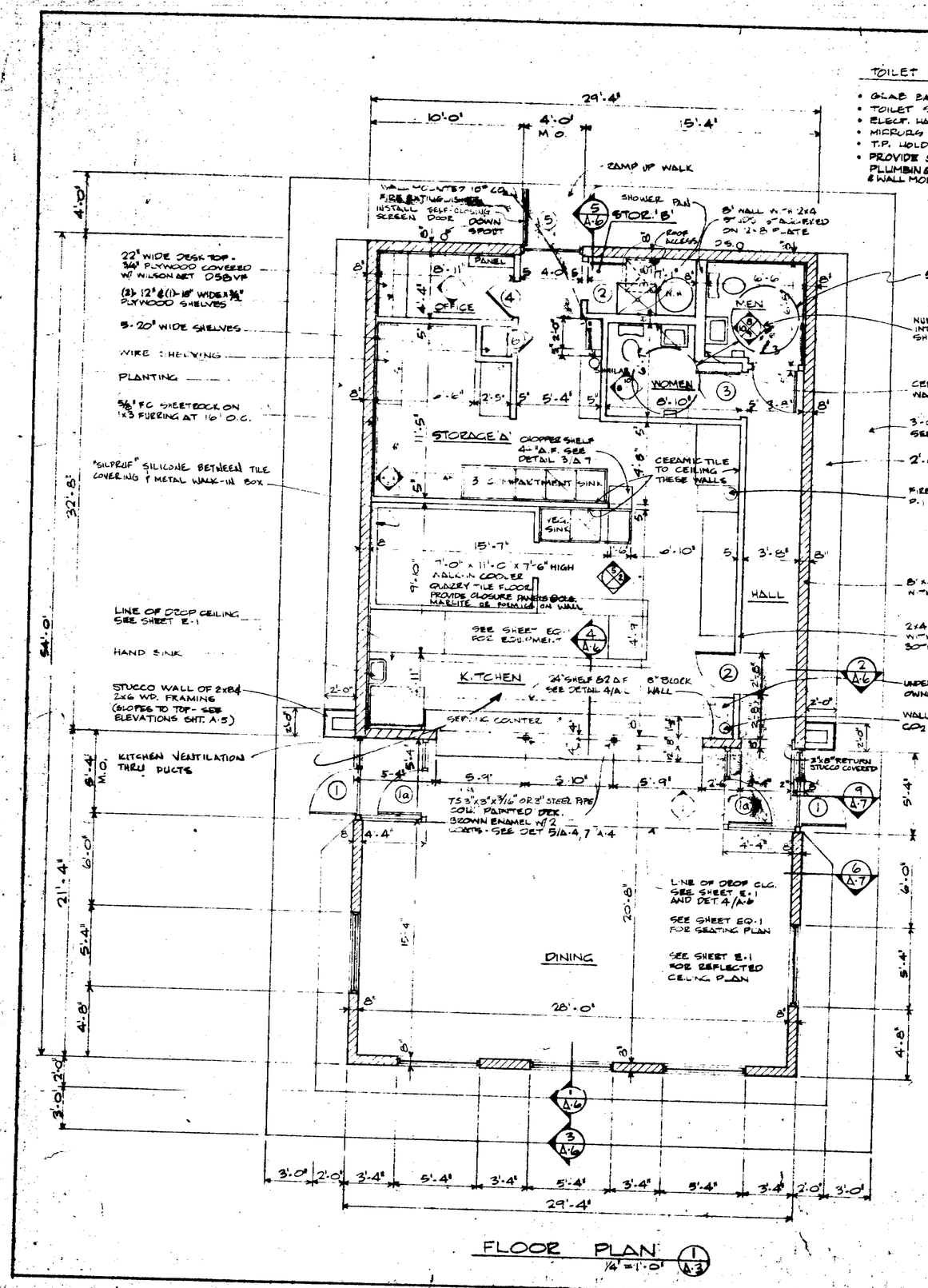
DATE
5-25-79

SHEET NUMBER
A-2

REGISTERED PROFESSIONAL ENGINEER
MICHAEL J. MADDOX
No. 24880
CIVIL
STATE OF CALIFORNIA

79-613

2



FLOOR PLAN (1/A-3)
1/4" = 1'-0"

TOILET ROOM REQUIREMENTS

- GLAS BARS 39" A.F.F. @ 1'-2" & 1'-11" CLEAR.
- TOILET SEAT 20" A.F.
- ELECT. HAND DRYERS 40" A.F.
- MIRRORS BY BOBRICK 168 - 8" x 24"
- T.P. HOLDER BY BOBRICK B-280
- PROVIDE SOLID BLOCKING BEHIND ALL PLUMBING FIXTURES, ACCESSORIES & WALL MOUNTED KITCHEN EQUIPMENT

ROOM FINISH SCHEDULE

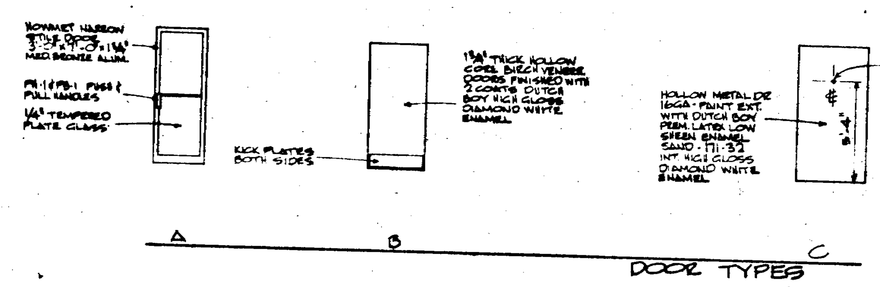
ROOM	FLOOR	BASE	WALLS	CEILING	HEIGHT	REMARKS
DINING ROOM	12"x12"x3/32" MURRAY EMBEE FLAKE	4"x12"x3/32" MURRAY EMBEE FLAKE COVE	8"x16"x4" CONC SLUMPBLOCK	VIRG. GLASS ACT. 2x2 DSO 1/8" GRID	8'-0" & 9'-0"	CHICAGO METALIC CEILING CEIL. DSO WHITE - 1 HOUR RATED
KITCHEN	"	12"x12"x3/32" MURRAY EMBEE FLAKE COVE	4"x4"x4" ANSI CLEAN #47 BRIGHT WHITE	5/8" VINYL BACKED FC. STOCK w/ HE. GRID	8'-0" & 9'-0"	BLACK GROUT ALL QUARRY TILE (TYP)
STORAGE 'A'	"	"	5/8" F.C. SHEETROCK & #47 BRIGHT WHITE	"	8'-0"	"
STORAGE 'B'	"	"	5/8" F.C. SHEETROCK PAINTED WHITE	"	"	
OFFICE	"		5/8" F.C. SHEETROCK PAINTED WHITE	"	"	
HALL	"	12"x12"x3/32" MURRAY EMBEE FLAKE COVE	"	"	"	
WOMENS TLT.	"	"	4"x4"x4" ANSI CLEAN #47 BRIGHT WHITE	"	"	
MENS TLT.	"	"	"	"	"	

NOTES
- ALL INTERIOR WALLS, DOORS, DOOR TRIM AND SHELVES TO BE PAINTED WITH TWO COATS OF DUTCH BOY HIGH GLOSS DIAMOND WHITE ENAM.
- ALL EXTERIOR FLASHING, TRIM, DOOR AND FRAME TO BE PAINTED WITH TWO COATS DUTCH BOY MEDIUM LATEX LOW SHEEN ENAMEL - SAND 171-32
- ALL EXTERIOR WOOD WORK TO BE STAINED WITH TWO COATS DUTCH BOY EXTERIOR LATEX STAIN - EARTY BROWN 175-39
- DINING RM. SHEETROCK PAINTED W/ 2 COATS DURACONE SILICONE WATER REPELLENT
- EXTERIOR STUCCO PAINTED W/ 2 COATS DUTCH BOY FLAT LATEX TEXTURE PAINT W/ STIPPLED FINISH COLOR: PANTONE #468 C

DOOR SCHEDULE / HARDWARE SCHEDULE

MARK	SIZE	TYPE	FRAME	SIZE	BUTTS	LOCKS	CLOSERS	KICKPLATES
1	3'-0"x7'-0"x1 3/4"	A	ALUMINUM FRAME DETAIL 9/A-7	1 3/4"x4"	1½PR. 4½"x4½" BB NRP US 26D	NORMS - ETRE M9 x 1890	LCN 1054 X PO MED BRONZE	NONE
2	2'-8"x6'-8"x1 3/4"	B	CECO DWS 34-16GA DETAIL 2/A-7	2" x 5 3/4"	1½PR. 4½"x4½" MCKINNEY TA2775	SCHLAGE A53PD PLY 626	NONE	BROOKLINE BLACK PLASTIC 30"x8"
3	3'-0"x6'-8"x1 3/4"	B	CECO DWS 34-16GA DETAIL 2/A-7	2" x 5 3/4"	1½PR. 4½"x4½" MCKINNEY TA2775	SCHLAGE A73PD PLY 626	LCN 1054 PRIME	BROOKLINE BLACK PLASTIC 34"x8"
4	2'-6"x6'-8"x1 3/4"	B	CECO DWS 34-16GA DETAIL 2/A-7	2" x 5 3/4"	1½PR. 4½"x4½" MCKINNEY TA2775	SCHLAGE A53PD PLY 626	NONE	BROOKLINE BLACK PLASTIC 28"x8"
5	3'-8"x6'-8"x1 3/4"	C	CECO DF 34-16 GA DETAIL 8/A-7	2" x 4 3/4"	1½PR. 4½"x4½" MCKINNEY TA2795	CORBIN TRIM 7400 LINE 3/4 ON 626	LCN HIGH SPD LINE DOME	34"x16" 3/8
6	1'-8"x6'-8"x1 3/4"	B	CECO DWS 34-16GA DETAIL 2/A-7	2" x 5 3/4"	1½PR. 4½"x4½" MCKINNEY TA2775	SCHLAGE A73PD PLY 626	NONE	BROOKLINE BLACK PLASTIC 18"x8"

NOTES
- ALL HARDWARE TO BE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.
- ALL HARDWARE TO BE US 26D FINISH UNLESS OTHERWISE SPECIFIED
- ALL INTERIOR DOORS TO BE KEYED ALIKE.
- FRAMES FOR DOORS 1 AND B TO HAVE 4" [illegible]



DOOR TYPES

CARLSON/SEEKATZ, INC.
ARCHITECTS
5555 N. LINCOLN AVENUE
CHICAGO, ILL. 60625

TACO BELL
12-0-5-4-9-2
3-7-5-2-9-4-2-0-5
825 N. CASS AVE. SUITE 210
WESTMONT, ILLINOIS 60559

REVISIONS
12-14-79
2-12-80

22941 1088

BUILDING TYPE
29-54-S.J.

TACO BELL JOB NO

JOB NUMBER
79-20

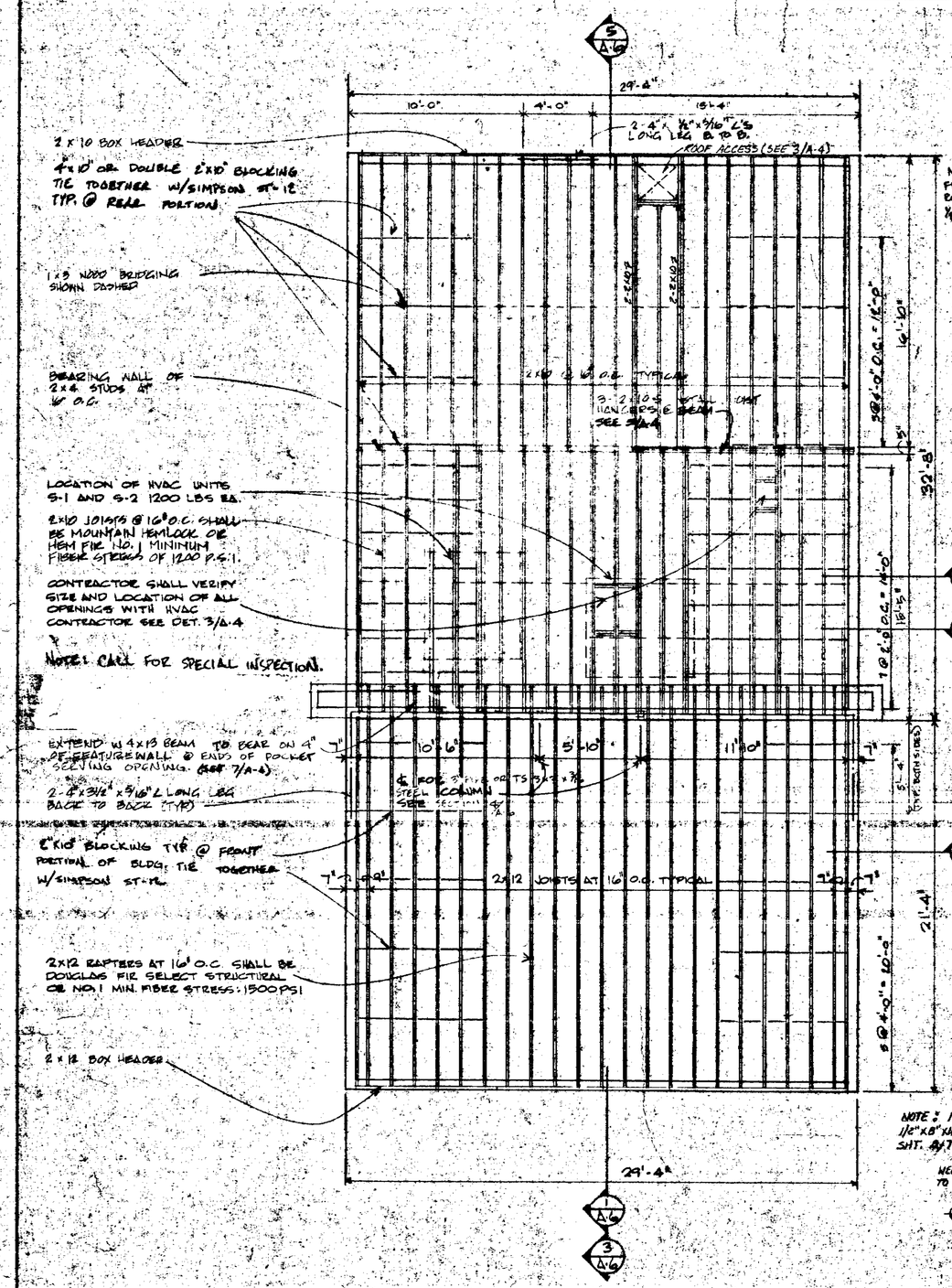
DATE
5-25-79

SHEET NUMBER
A-3

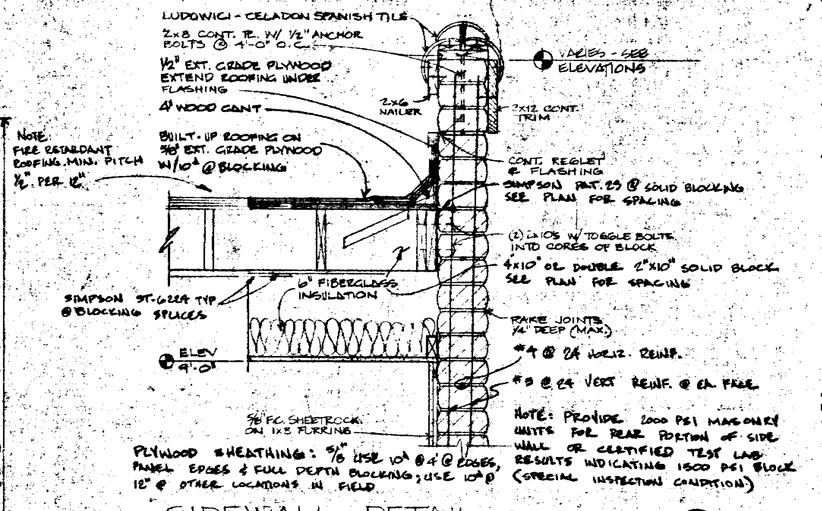
REGISTERED PROFESSIONAL ENGINEER
MICHAEL J. MAJKA
CIVIL
STATE OF CALIFORNIA

79-613

3



ROOF FRAMING PLAN 1/A-4



SIDEWALL DETAIL @ ROOF 2/A-4
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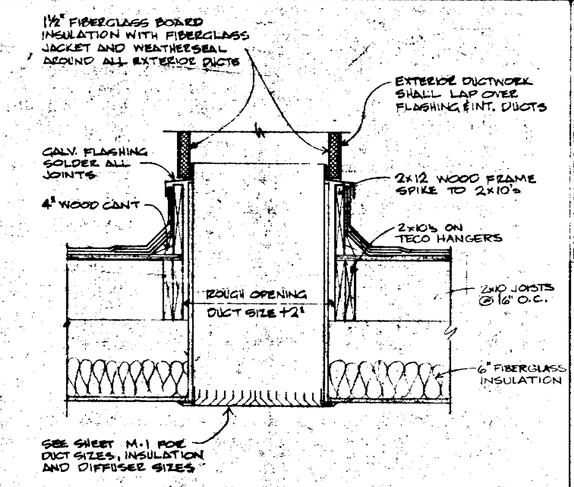

TYPICAL ROOF OPENING DETAIL 3/A-4
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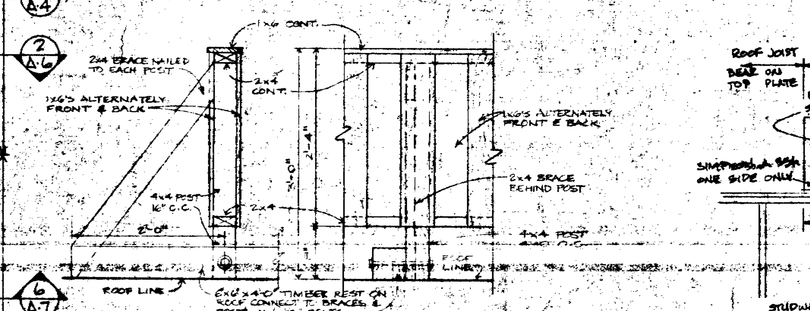

WOOD FRAME SCREEN DETAIL 4/A-4
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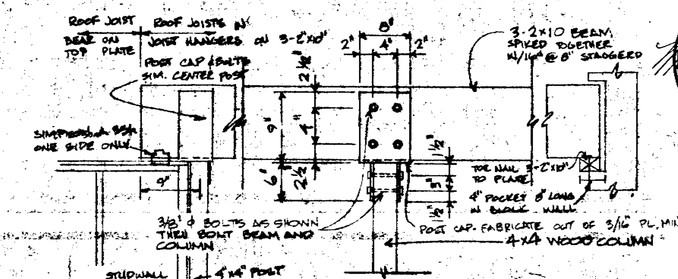
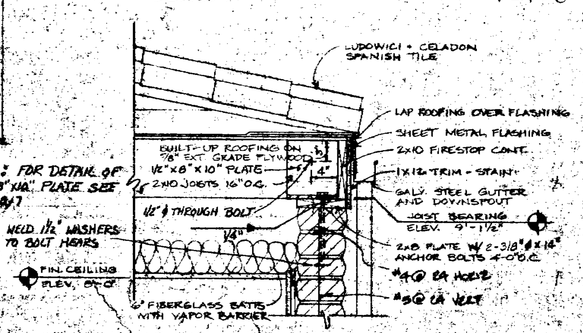
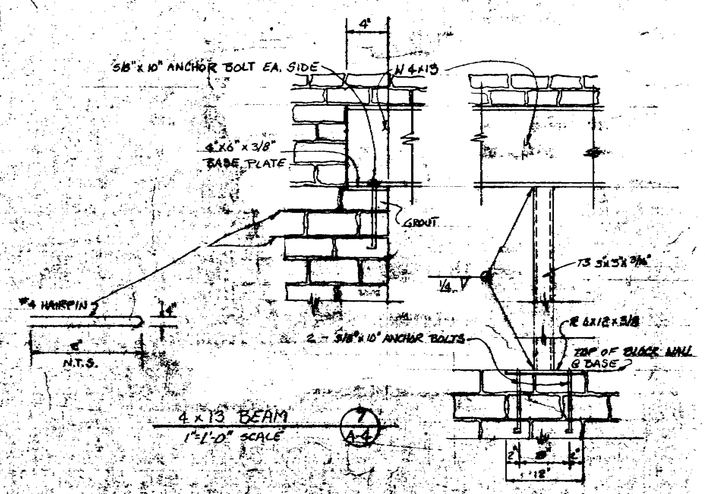


WOOD COLUMN AT BEAM 5/A-4
SCALE: 1"=1'-0"



GUTTER DETAIL 6/A-4
SCALE: 1"=1'-0"



4 x 13 BEAM 7/A-4
1"=1'-0" SCALE

carlson/seekatz, inc. ARCHITECTS
8455 W. LEMAI AVENUE
CHICAGO ILL. 60646
(312) 775-7285

REGISTERED PROFESSIONAL ENGINEER MICHAEL J. MAJORS CIVIL STATE OF CALIFORNIA

TACO BELL
SUITE 110
9525 W. CASS AVE.
WESTMONT, ILLINOIS 60559

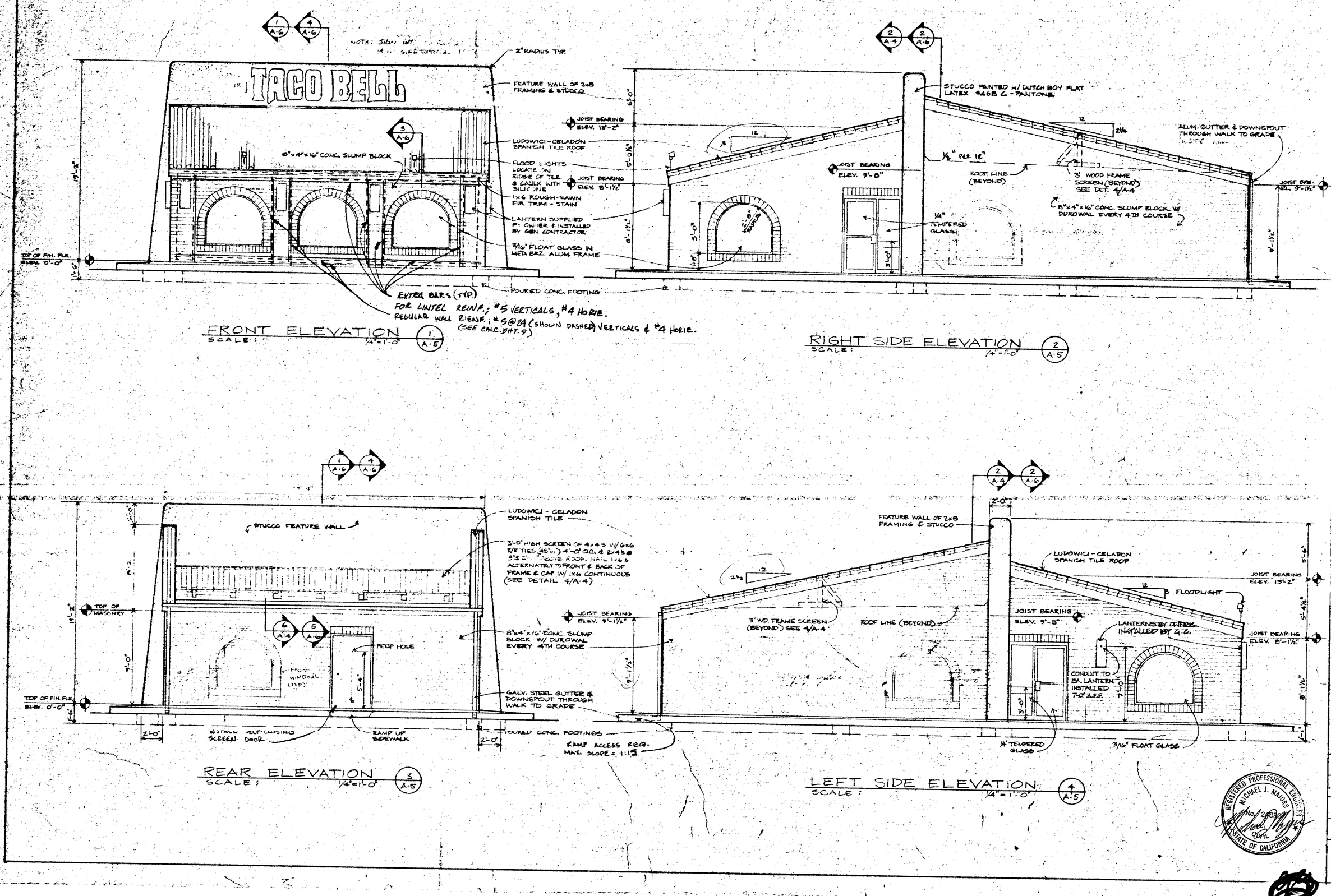
REVISIONS
12-19-79
2-12-80
2-25-80

22941 10880

BUILDING TYPE 29-54-SJ
TACO BELL JOB NO.
JOB NUMBER 79-29
DATE 5-25-79
SHEET NUMBER A-4

79-613

4



carlson/seekatz, inc.
ARCHITECTS

TACO BELL
(312) 920-2500
829 N. CASS AVE. SUITE 110
WESTMONT, ILLINOIS 60559

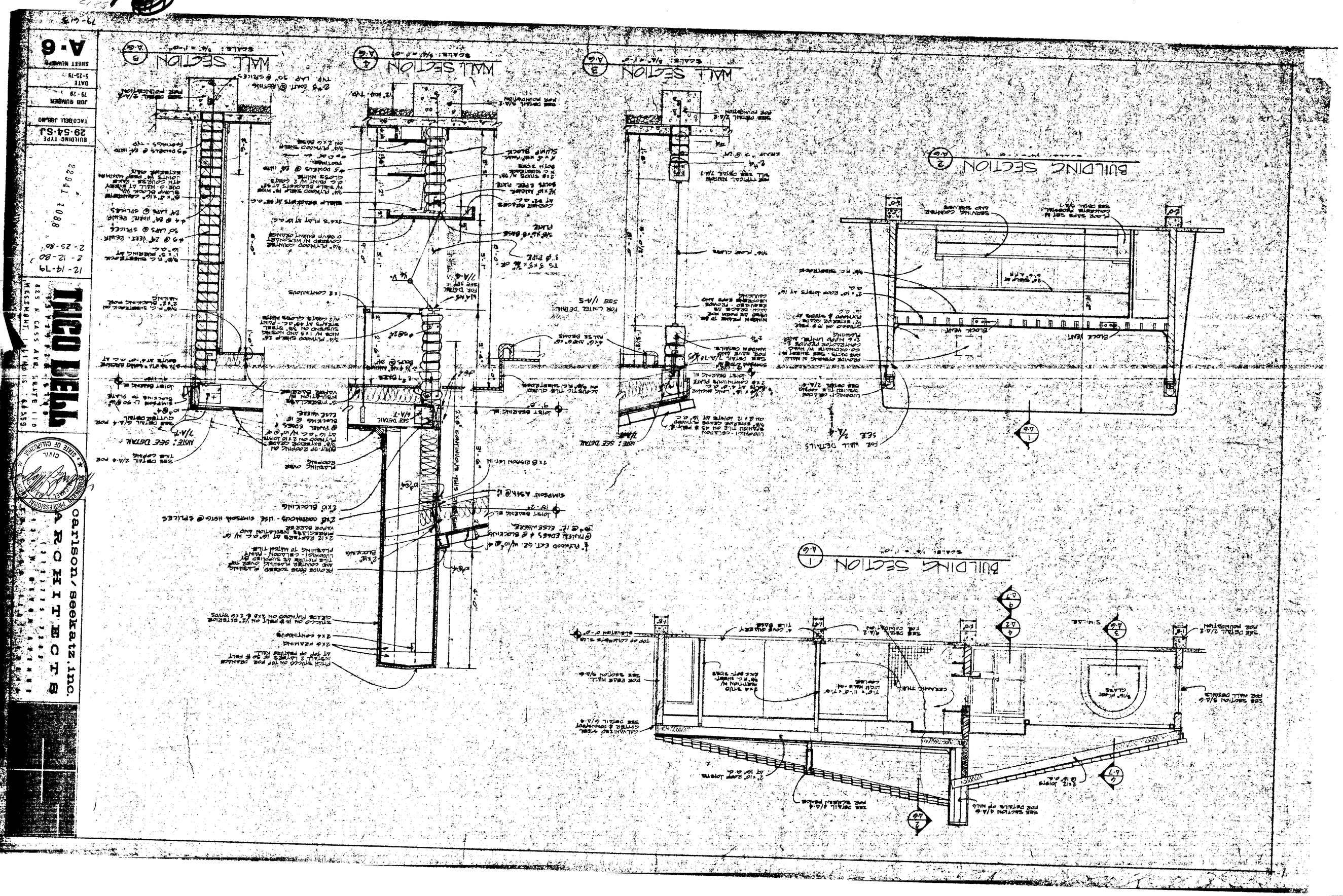
12-14-79

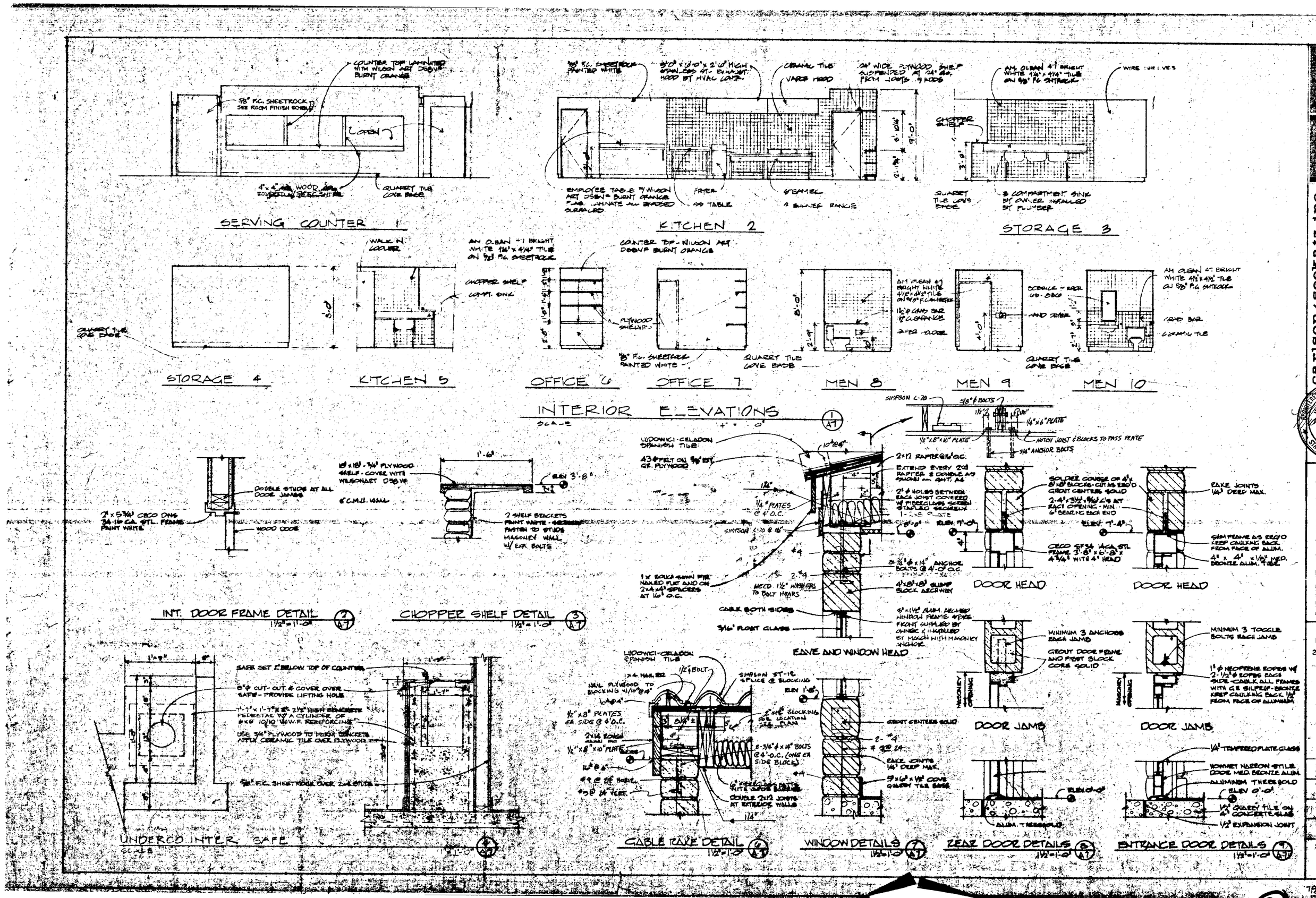
22941 1088

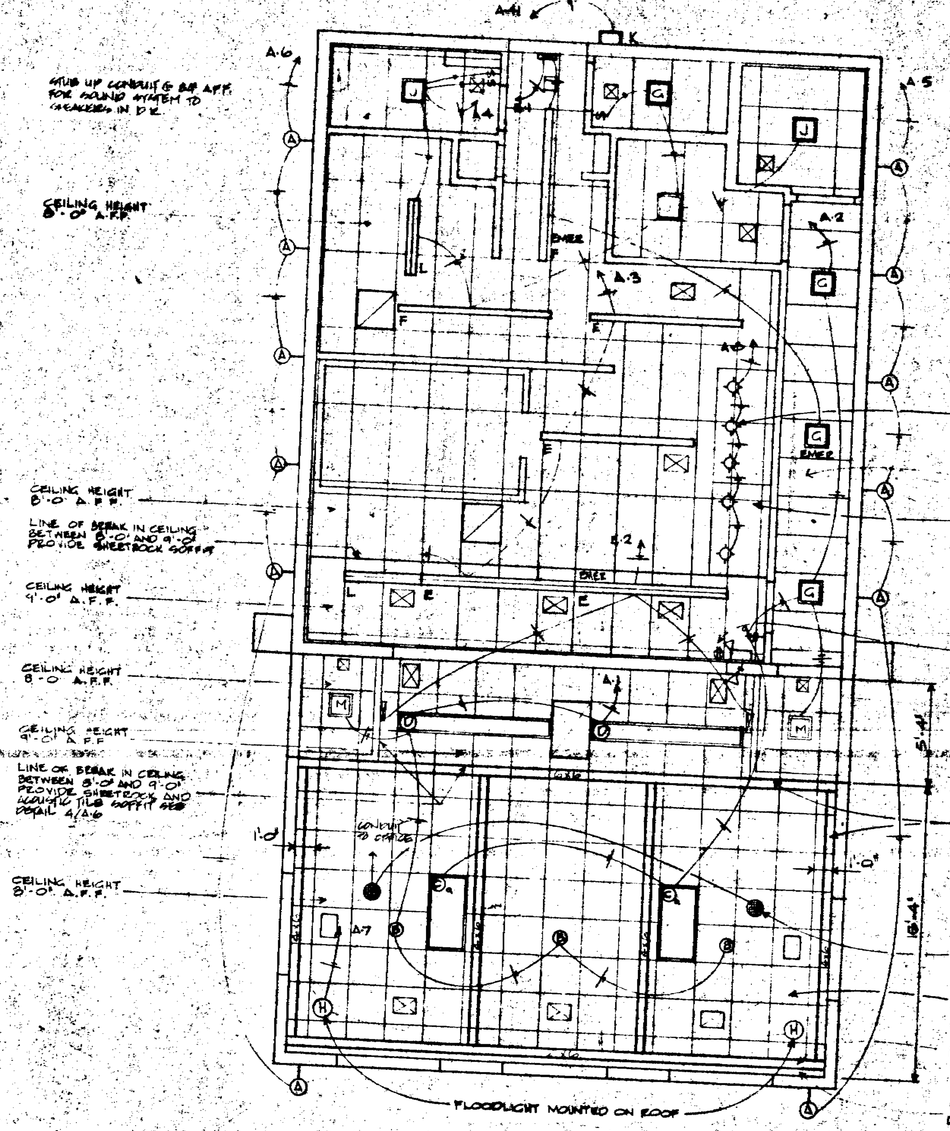
BUILDING TYPE	29-54-SJ
TACO BELL JOB NO	
JOB NUMBER	79-28
DATE	5-25-79
SHEET NUMBER	A-5

79 - 613

5


BUILDING SECTION 1
BUILDING SECTION 2
WALL SECTION 3
WALL SECTION 4
WALL SECTION 5
TACO BELL
carlson/seeka.tz.inc.
ARCHITECTS
BUILDING TYPE
29-54-SJ
TACOBELL IDAHO
JOB NUMBER
79-29
DATE
5-25-79
SHEET NUMBER
A-6


SERVING COUNTER 1
KITCHEN 2
STORAGE 3
STORAGE 4
KITCHEN 5
OFFICE 6
OFFICE 7
MEN 8
MEN 9
MEN 10
INTERIOR ELEVATIONS
SCALE
INT. DOOR FRAME DETAIL
CHOPPER SHELF DETAIL
UNDERCO INTER. SAFE
EAVE AND WINDOW HEAD
DOOR HEAD
DOOR JAMB
CABLE RAKE DETAIL
WINDOW DETAILS
REAR DOOR DETAILS
ENTRANCE DOOR DETAILS
Carlson/Seekatz, inc.
ARCHITECTS
CHICAGO ILL.
TACO BELL
REVISIONS
12-14-79
2-25-80
BUILDING TYPE
29-54-SJ
TACO BELL JOB NO.
SHEET NUMBER
A-7
79-613



REFLECTED CEILING PLAN
1/4" = 1'-0"
E-1

LIGHT FIXTURE SCHEDULE

SYMBOL	MF'R & CATALOG NO.	LAMP	FIXTURE TYPE	MOUNTING	REMARKS
A	AS SPECIFIED BY OWNER	1-A-19	LANTERN	SUSPENDED	SUPPLIED BY G.C.
B	AS SPECIFIED BY OWNER		CHANDELIER	CEILING	SUPPLIED BY G.C.
C	LIGHTRON LFG440 2L4LBA	4-40W W-W	2'x4' FLUORESCENT	RECESSED	
D	LIGHTRON LF6-240-1BST-LBA	4-F40 WW	1'x8' FLUORESCENT	RECESSED	
E	LIGHTRON 16-446SL-ETL	4-F96T12 WW	8' FLUOR. STRIP	SURFACE	PROVIDE CLEAR ACRYLIC SLEEVES ALL FLUOR. TUBES
F	LIGHTRON 128-246SL-ETL	2-F96T12WW	8' FLUOR. STRIP	SURFACE	PROVIDE CLEAR ACRYLIC SLEEVES ALL FLUOR. TUBES
G	ATLIGHT 9111-S-W-DL	1-100W A-19	SQUARE DOWNLIGHT	RECESSED	
H	GTE SYLVANIA 50T-500-103	500W QUARTZ	FLOODLIGHT	SURFACE	MOUNT ON ROOF
I	ATLIGHT 4C11-CHS.	2-20W T-12 DC	EXIT LIGHT	SURFACE	MOUNT ON CEILING
J	McGRAW EDISON FL 1051	250W MERCURY	PARKING LOT LIGHT	W/POLE	DECUTB
K	DUAL LIGHT 120 SHC 7R2-9990-SVC	2-38W FWC 36	WALL BRACKET	SURFACE	BAT OPER. EMER-LITE
L	DRAW #6996	1-100W A19	FAN/LITE COMBO	RECESSED	SUPPLIED BY HVAC CONT.
M	LIGHTRON VP 88H	1-100W MV	HALL LIGHT	SURFACE	10'-0" A.F.F.
	LIGHTRON 16-440 R3-ETL	4-F40 HW	4' FLUOR. STRIP	SURFACE	PROVIDE CLEAR ACRYLIC SLEEVES ALL FLUOR. TUBE
	ATLIGHT 9111-S-W-DL	1-60W A-19	SQUARE DOWNLIGHT	RECESSED	

ELECTRICAL NOTES

1. ALL ELECTRICAL WORK TO CONFORM TO ALL LOCAL CODES AND LOCAL UTILITY COMPANY REQUIREMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF PARKING LOT LIGHTS AND PYLON SIGNS ON INDIVIDUAL SITE PLAN.
3. CONTRACTOR SHALL VERIFY SERVICE VOLTAGE WITH UTILITY COMPANY AND REVISE AND BALANCE PANEL AS REQUIRED.
4. ALL REMOTE EQUIPMENT ON ROOF SHALL HAVE DISCONNECT SWITCH AT EACH PIECE OF EQUIPMENT.
5. ALL EXTERIOR RECEPTACLES, JUNCTION BOXES & EQUIPMENT SHALL BE WATHERPROOF.
6. ALL CONDUIT & JUNCTION BOXES ARE TO BE RECESSED WHERE POSSIBLE AND ALLOWED BY CODE.
7. INSULATE ALL CONDUIT PASSING THROUGH WALK IN COOLER. FILL AROUND CONDUIT WITH DUCT-SEAL WHERE IT PASSES THROUGH COOLER WALL OR CEILING.
8. CONTRACTOR HAS THE OPTION OF LOCATING THE CONDUIT FOR THE MOST EFFICIENT WIRING. HOWEVER HE SHALL CONSULT ALL DRAWINGS FOR INTERFERENCES AND DIFFICULTIES PRIOR TO ANY INSTALLATION.
9. CONTRACTOR TO FURNISH AND INSTALL 2-8" x 5" 8OSM LOUDSPEAKERS WITH GRILLE. LOCATE AS SHOWN ON PLAN. STUB OUT LOW VOLTAGE WIRING IN OFFICE FOR FUTURE MUSIC SYSTEM. RUN IN 3/4" CONDUIT.
10. REFER TO MECHANICAL DRAWINGS FOR THE LOCATION OF THERMOSTATS, UNITS AND OTHER SPECIAL EQUIPMENT. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUITS, JUNCTION BOXES, AND DISCONNECT SWITCHES. THERMOSTAT AND CONTROL WIRING SHALL BE INSTALLED BY THE HVAC CONTRACTOR.
11. PANEL BOARD AND [illegible] SHALL BE SQUARE D, PETERSON PANEL OR [illegible] APPROVED BY ARCHITECT AND TACO BELL. CIRCUIT BREAKERS SHALL BE UL APPROVED FOR USE AS SWITCHES.

REGISTERED PROFESSIONAL ENGINEER
MICHAEL J. MAJOR
No. 24886
CIVIL
STATE OF CALIFORNIA

CARLSON/SEEKATZ, INC.
ARCHITECTS
[illegible]

TACO BELL
325 N. GLASS AVE. SUITE 110
WESTMONT, ILLINOIS 60559

REVISIONS
12-14-79

22941 1088

BUILDING TYPE
29-54-SJ
TACO BELL JOB NO

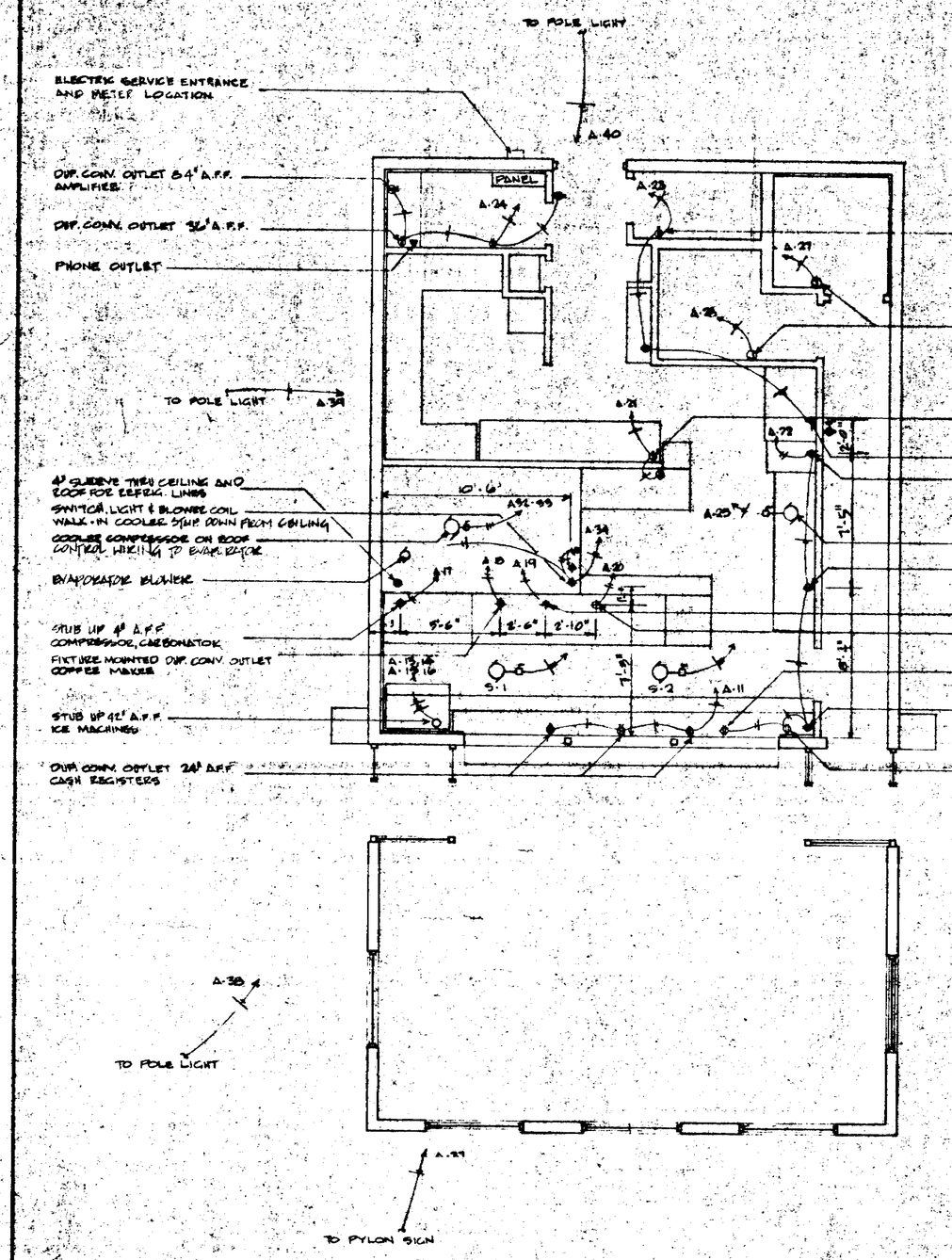
JOB NUMBER
79-20

DATE
5-25-79

SHEET NUMBER
E-1

79-643

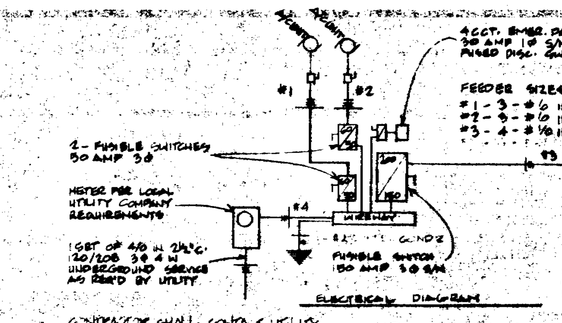
8



ELECTRICAL FLOOR PLAN

PANEL BOARD 'A' 120/208/3Ø/4W, 225 A MAINS											
CCT. NO.	DESCRIPTION	VOLTS	TRIP	POLE	WATTS	CCT. NO.	DESCRIPTION	VOLTS	TRIP	POLE	WATTS
1	LIGHTING	120	15	1	1020	22	DRILL & UTILITY	120	20	1	540
2	"	"	15	1	700	23	RECEPTACLES	"	20	1	600
3	"	"	15	1	960	24	RECEPTACLES	"	20	1	720
4	"	"	15	1	870	25	EXHAUST FAN E-1	"	20	1	700
5	"	"	15	1	900	26	SPARE	"		1	
6	"	"	15	1	600	27	HAND DRYER	"	20	1	1500
7	"	"	15	1	1000	28	HAND DRYER	"	20	1	1500
8	"	"	15	1	500	29	SPARE	"		1	
9	SPARE	"		1		30	SPARE	"		1	
10	SPARE	"		1		31	SPARE	"		1	
11	REGISTERS	"	20	1	1000	32	COOLER	208	20	2	2700
12	SPARE	"		1		33	COMPRESSOR				
13	ICE MACHINE	208	20	2	1000	34	BLOWER & LIGHTS	180	20	1	500
14						35	SPARE	"		1	
15	ICE MACHINE (FUTURE)	208	20	2		36	SPARE	"		1	
16						37	PYLON SIGN	"	70	1	800
17	CARBONATOR COMP.	120	20	1	600	38	POLE LIGHT	"	80	1	600
18	COFFEE MAKER	"	20	1	1600	39	POLE LIGHT	"	90	1	800
19	WASHING MACH.	"	20	1	1200	40	POLE LIGHT	"	80	1	600
20	HEAT LAMPS	"	20	1	1100	41	REAR LIGHT	"	10	1	100
21	HEAT CHOPPER	"	20	1	1200	42	SPARE	"		1	

MAIN DISTRIBUTION PANEL 'DP' 120/208W/3Ø/4W 100 AMP								
CCT. NO.	DESCRIPTION	VOLT	PHASE	POLE	FUSE	AMPS		
						A	B	C
1	A/C UNIT 9-1	208	3	3	50	31.7	31.7	31.7
2	A/C UNIT 9-2	208	3	3	50	31.7	31.7	31.7
3	PANEL 'A'	120/208	3	3	150	67.1	67.1	67.1
	SPARE							



ELECTRICAL DIAGRAM

CONTRACTOR SHALL CONTACT UTILITY FOR UNDERGROUND SERVICE REQUIREMENTS

TO POLE LIGHT

TO PYLON SIGN

REGISTERED PROFESSIONAL ENGINEER MICHAEL J. MAJORS No. 24980 CIVIL STATE OF CALIFORNIA

Carlson/Beckatz, Inc. ARCHITECTS

TACO BELL

REVISIONS 12-14-79

22941 1028

BUILDING TYPE 29-54-SJ

TACO BELL JOB NO.

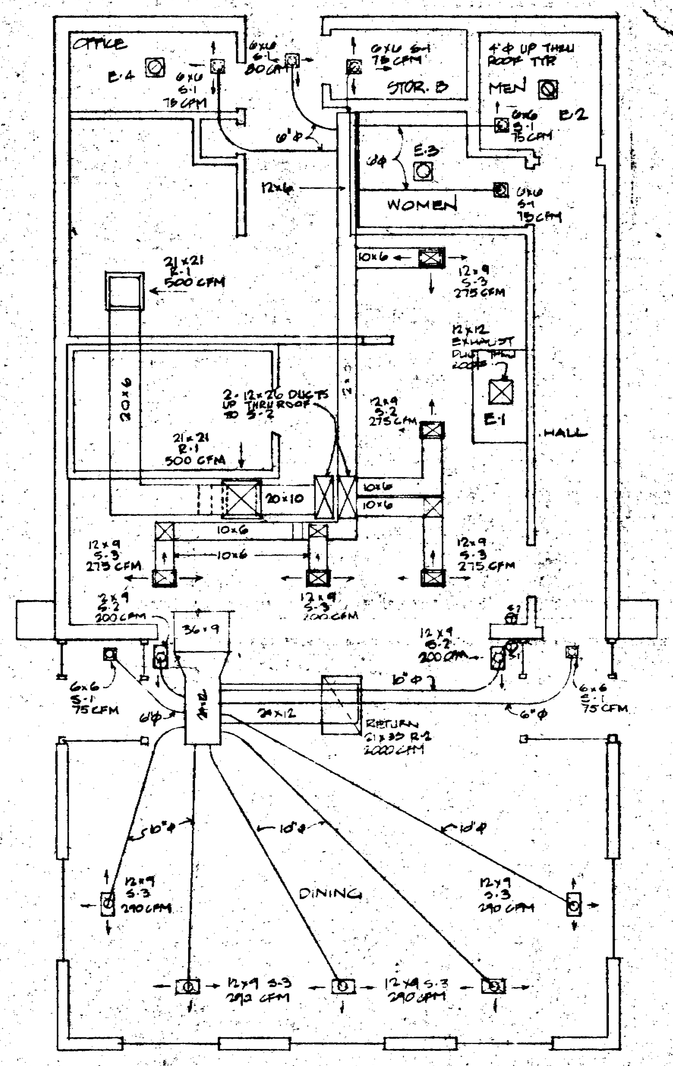
JOB NUMBER 79-25

DATE 11-25-79

SHEET NUMBER E-2

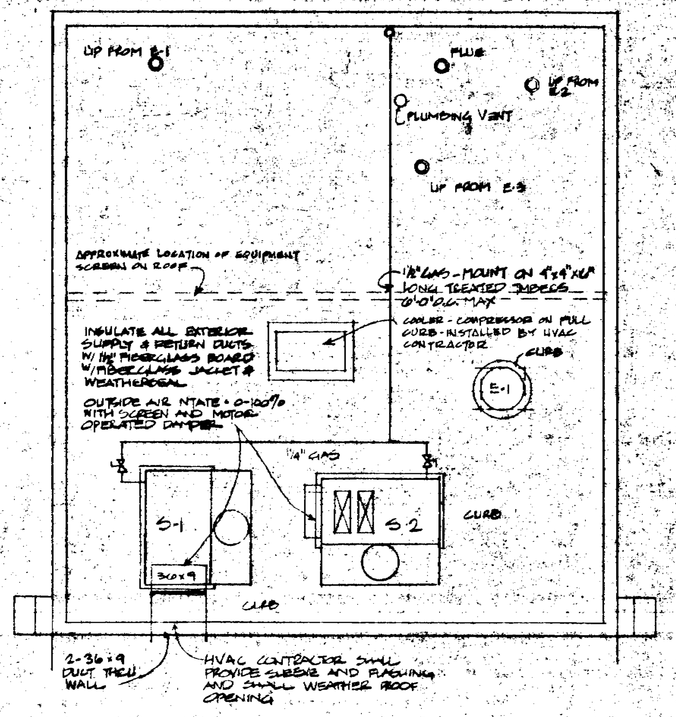
79-613

9



HVAC FLOOR PLAN

SCALE 1/4" = 1'-0"



HVAC ROOF PLAN

SCALE 1/4" = 1'-0"

EQUIPMENT SCHEDULE

S-1 Trane #8RCA 508H gas fired heating, electric cooling roof top unit, 2000 CFM @ 1/2" ESP, 208V/240V/3Ø/60 HZ. Cooling capacity 60,000 BTU @ ARI standard conditions, heating capacity 150,000 BTU input, 113,000 BTU output, Unit to have horizontal discharge and return, full curb, standard 40° ambient operation lifting legs, adjustable drive, throwaway filters 2 stage gas valve, electronic ignition, thermostat with guard, central control panel, 0-100% screened outside air intake with modulating type motor operated damper with potentiometer control. Potentiometer shall be mounted on a central control panel. Outside air damper to close automatically when unit is off and during unoccupied cycle. 1200 lbs.

S-2 Same as above except vertical discharge and 1680 CFM

E-1 Acme PUIEG Kitchen Hood Exhaust 3300 CFM @ 3/4" SP, 1/4 HP, 115/1Ø/60. Complete with disconnect switch, grease catcher, cooling tubes, heat shields, backdraft damper, to comply with UMC 609.5

E2 BROWN DELUXE FAN/LIGHT
E3 COMBINATION - MODEL 696
E4 100 CFM 115V/1Ø/60 HZ

GENERAL NOTES

Receive, unload, and safely store HVAC curbs shipped to job site.

Cut, frame, and patch all required roof, floor and wall openings.

Furnish and install necessary supports, (lintels) for roof, floog and wall openings.

Rectangular ductwork to be per SMACNA recommendations with interior ductwork to have 1/2" fiberglass insulation. Exposed ducts to have 1 1/2" fiberglass insulation with fiberglass jacket and weatherseal. Round duct to be wirecold type 4K with 1" insulation.

DIFFUSERS AND REGISTERS TO BE TUTTLE & BAILEY OR EQUAL
S-1 6x6 MS-3-W1 W/MT DAMPER
S-2 12x9 MS-26L-W1 W/MT DAMPER
S-3 12x9 MS-35-W1 W/MT DAMPER
R-1 21x21 MF-4-W1
R-2 21x35 MF-4-W1

Furnish magon with metal sleeves for all ductwork through masonry.

ELECTRICAL NOTES

Provide and install all required power wiring and low voltage control wiring, including final connections to all electric operated equipment supplied by HVAC Contractor, air conditioning units, exhaust fans, master control panels, etc.

PLUMBING NOTES

Furnish and install gas piping for HVAC system including final connections.

Furnish and install air conditioning unit condensate drain piping.

VENTILATION SCHEDULE

	CODE REQ'MT.			ACTUAL	
ROOM	AREA	SUPPLY	EXHAUST	SUPPLY	EXHAUST
DINING	528	422	-	1850	-
KITCHEN	381	304	1800	1025	1800
STOR. A	185	148	-	355	-
STOR. B	26	21		75	
OFFICE	39	52	52	75	
HALL	110	-		75	
WOMEN	46	-	90	75	
MEN	48	-	80	75	

* RETURN THRU KITCHEN

REGISTERED PROFESSIONAL ENGINEER MAURICE L. MAJORS No. 24880 STATE OF CALIFORNIA

Carlson/Seekatz, inc. ARCHITECTS
6300 W. LEMAI AVE. CHICAGO, ILL. 60646
(312) 775-7285

STATE OF ILLINOIS CARL CARLSON 1-3235

TACO BELL
507 S. WILLOW SPRINGS RD.
LA GRANGE, ILLINOIS 60525

REVISIONS: 12-19-79

22941 1088

BUILDING TYPE: 29-54-SJ

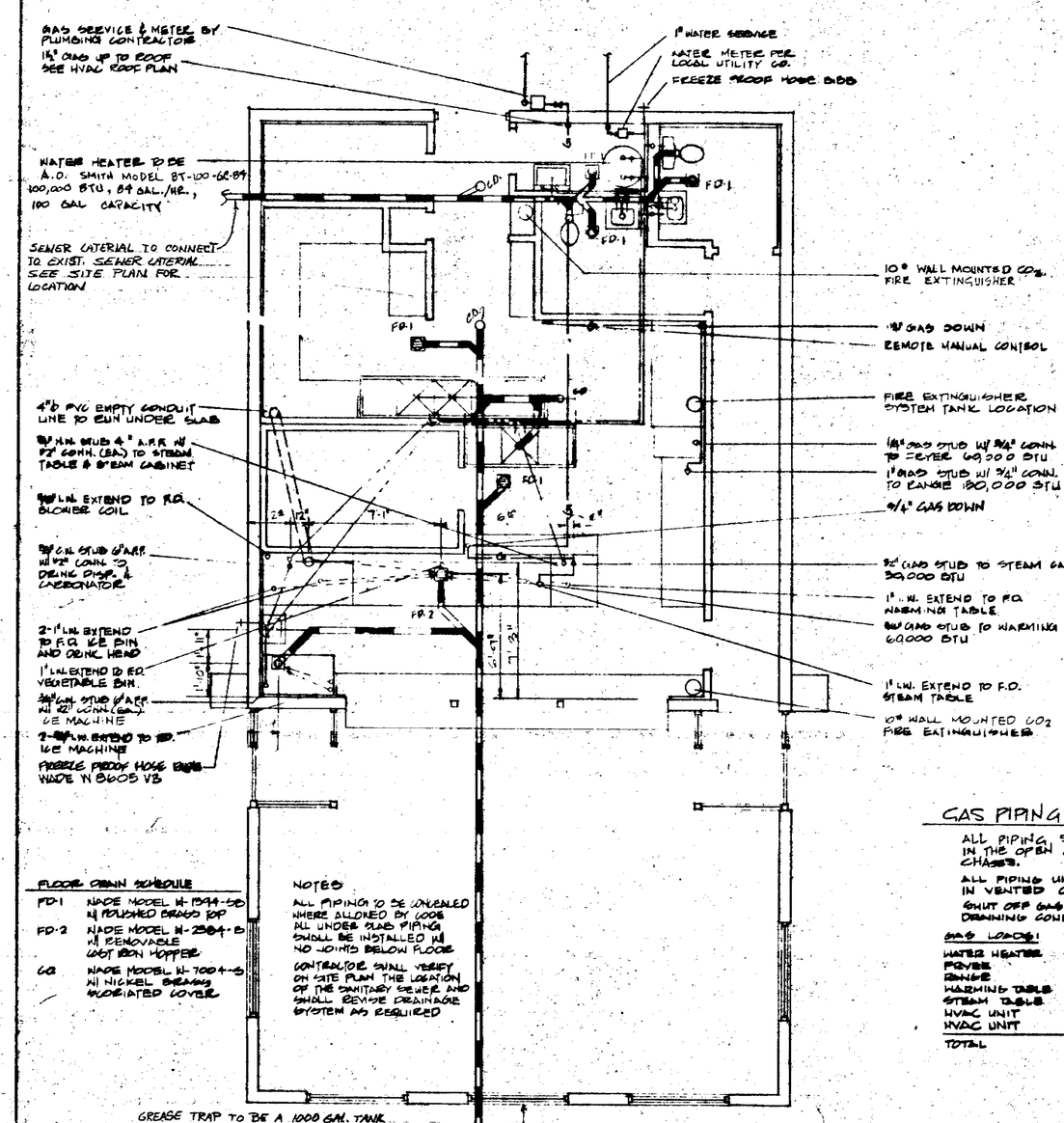
TACO BELL JOB NO.

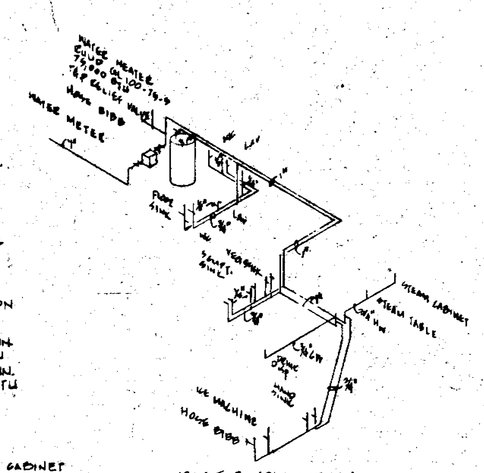
JOB NUMBER: 79-28

DATE: 8-25-78

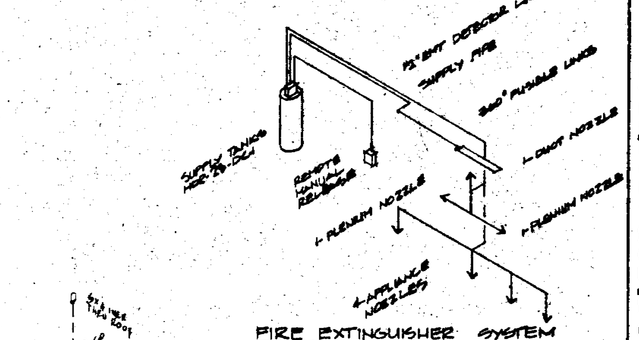
SHEET NUMBER: M-1

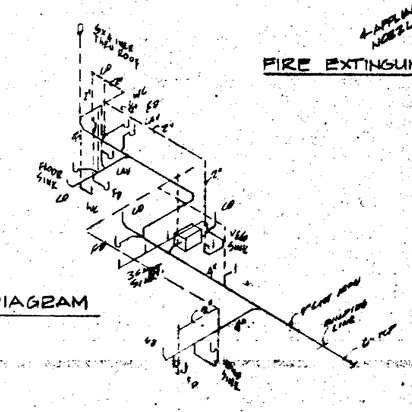
10





RISER DIAGRAM
NO SCALE





DRAINAGE DIAGRAM
NO SCALE

FLOOR DRAIN SCHEDULE

FD-1	WADE MODEL W-1594-5D W/ POLISHED BRASS TOP
FD-2	WADE MODEL W-2584-5 W/ REMOVABLE CAST IRON HOPPER
C.O.	WADE MODEL W-7004-S W/ NICKEL BRASS MODERATED COVER

NOTES

ALL PIPING TO BE UNLINED WHERE ALLOWED BY CODE
ALL UNDER SLAB PIPING SHALL BE INSTALLED W/ NO JOINTS BELOW FLOOR

CONTRACTOR SHALL VERIFY ON SITE PLAN THE LOCATION OF THE SANITARY SEWER AND SHALL REVISE DRAINAGE SYSTEM AS REQUIRED

GENERAL NOTES

1. WATER PIPING BELOW GROUND TO BE TYPE 'K' COPPER. ABOVE GRADE TYPE 'L' COPPER. ALL SANITARY TO BE 4" CAST IRON.
2. INSTALL SHUT OFF VALVES AT ALL FIXTURE CONNECTIONS. (CHROME PLATED WHERE EXPOSED)
3. INSULATE ALL DOMESTIC GRADE HOT & COLD WATER LINES W/ ½" FIBERGLASS OR ARMOFLEX TYPE 180 INSULATION. BELOW GRADE HOT WATER PIPE TO BE INSULATED W/ ARMOFLEX OR ARMAFLEX INSULATION.
4. REFER TO EQUIPMENT DRAWINGS FOR LOCATIONS OF ALL CONNECTIONS AND DRAINS. MAKE ALL CONNECTIONS.
5. FURNISH & INSTALL LEAD FLASHING ON ALL PIPING PASSING THRU ROOF
6. CONTRACTOR SHALL PROVIDE ALL VALVES, FITTINGS, TRAPS, ETC. AS REQUIRED FOR THE INSTALLATION OF ALL PIECES OF EQUIPMENT

GAS PIPING NOTES

ALL PIPING SHALL BE LOCATED IN THE OPEN OR INSIDE VENTED CHASES.

ALL PIPING UNDER SLAB TO RUN IN VENTED CONDUIT.

SHUT OFF GAS PIPING BEFORE DRAINING CONDENSATE.

GAS LOADS:

WATER HEATER	75,000 BTU
FRYER	60,000
RANGE	150,000
WARMING TABLE	15,000
STEAM TABLE	30,000
HVAC UNIT	150,000
HVAC UNIT	150,000
TOTAL	660,000 BTU

PLUMB. SYMBOLS

	COLD WATER
	COLD WATER UNDER SLAB
	HOT WATER
	HOT WATER UNDER SLAB
	VENT PIPING
	INDIRECT WASTE
	DIRECT WASTE
G.W.	COLD WATER
H.W.	HOT WATER
I.W.	INDIRECT WASTE
F.D.	FLOOR DRAIN
C.O.	CLEAN OUT
W.C.	WATER CLOSET
LAV.	LAVATORY
—G—	GAS LINE

FIXTURE SCHEDULE

FIXTURES: CONTRACTOR SHALL FURNISH AND INSTALL FIXTURES AS REQUIRED COMPLETE WITH SUPPLIES, STOPS, TRAPS, HANGERS, SUPPORTS, SEALS, ETC.. ALL EXPOSED SUPPLY PIPES, STOPS, AND TRAPS SHALL BE CHROME PLATED BRASS. ESCUTCHEONS SHALL BE INSTALLED WHEREVER PIPING ENTERS OR LEAVES A FINISHED WALL.

A) LAVATORY: AMERICAN STANDARD SCOTTIAN LAVATORY CAT. NO. 0360.067 WALL HANGER WITH 7285.062 LAVATORY FAUCETS (2 - HOT & COLD) 7303.003 SUPPLY PIPES 4362.008 GRID DRAIN AND 4419.040 P-TRAP SMITH LAVATORY SUPPORTS #700.

B) WATER CLOSET: AMERICAN STANDARD ELONGATED CADET TOILET NO. 2109.171 SIPHON JET ELONGATED BOWL, CLOSE COUPLED TANK, FREE STANDING, VITREOUS CHINA, 2 BOLT CAPS AND TANK COVER LOCKING DEVICE - 5320.536 SEAT (BLACK) WITH 3140 STAINLESS STEEL HINGE.

C) HAND SINK: AMERICAN STANDARD LUCERNE LAVATORY CAT. NO. 0351.028 WALL HANGER AND NO. 2105.459 4" CENTER SET FAUCET WITH VITRIUS-FROST CROWN HANDLES; POP-UP DRAIN, AND AERATOR. AMERICAN STANDARD 1666 #2351.018.

D) KIT. SINK: VEGETABLE SINK & 3 COMPARTMENT SINK SUPPLIED BY KIT. EQUIPMENT CONTRACTOR INSTALLED BY PLUMBING CONTRACTOR.
PROVIDE CHICAGO FAUCET CO. MODEL 940-LO-1.12 W/ 12" SWING SPOUT
AMERICAN STANDARD "LAGUELL" 3692.023 W/ 8379.012 BIN GUARD & 7198.170 & 7200 WRISTBLADE CHICAGO FAUCET CO. MODEL 871 FAUCET W/ VACUUM BREAKER, WALL BRACE, PRE-RINSE, & LAV. 1629 #2351.018.

E) SERVICE SINK: PROVIDE CHICAGO FAUCET CO. MODEL 940-LO-1.12 W/ 12" SWING SPOUT AMERICAN STANDARD "LAGUELL" 3692.023 W/ 8379.012 BIN GUARD & 7198.170 & 7200 WRISTBLADE CHICAGO FAUCET CO. MODEL 871 FAUCET W/ VACUUM BREAKER, WALL BRACE, PRE-RINSE, & LAV. 1629 #2351.018.

FIRE EXTINGUISHER SYSTEM

SUPPLY FIRE EXTINGUISHER SYSTEM MODEL HDE-25-DC-1 CENTRAL DRY CHEMICAL SYSTEM AS MANUFACTURED BY WALTER KIDDE & CO. INC., OR APPROVED EQUAL. SEE APPROVED SHOP DRAWINGS FOR DETAILS. FURNISH & INSTALL A ONE (1) TANK SYSTEM. THE SYSTEM SHALL COMPLY WITH ALL LOCAL CODES AND NFPA BULLETIN NO 96 PLUS THE FOLLOWING:

1). FURNISH & INSTALL AUTO GAS SHUT-OFF VALVE (MECHANICAL).
2). ALL EXPOSED PIPE SHALL BE GALVANIZED IRON PIPE.
3). INSTALL REMOTE MANUAL RELEASE.
4). CYLINDER LOCATION AS SHOWN ON PLUMB. FLOOR PLAN
5). ½" & ¾" NPT FITTINGS & NPT INSPECT. PLATE INSTALL BY HOOD & DUCT FABRICATOR.
6). SUPPLY 360" FUSIBLE LINK CONNECTION AT HOOD.
7). SUPPLY NOZZLES: A) DUCT NOZZLES - 2, B) PLENUM NOZZLES - 2, C) COOKING NOZZLE.
8). INSTALL GAS LINE NOT TO INTERFERE WITH VENTILATION OPERATION & PERFORMANCE.
9). SUPPLY WALL MOUNT. 10# CO_2 BC FIRE EXTING. AS SHOWN.

carlson/seekatz, inc.
ARCHITECTS
8363 W. LEMAI AVE
CHICAGO, ILL. 60648
(312) 775-7284

TACO BELL
507 S. WILLOW SPRINGS RD.
LA GRANGE, ILLINOIS 60525

REVISIONS
12-14-79
1-11-80

REGISTERED PROFESSIONAL ENGINEER MICHAEL J. KRAUSE CIVIL STATE OF CALIFORNIA 22941

BUILDING TYPE
29-54-SJ

TACO BELL JOB NO.

JOB NUMBER
79-90

DATE
5-25-79

SHEET NUMBER
P-1

79-613

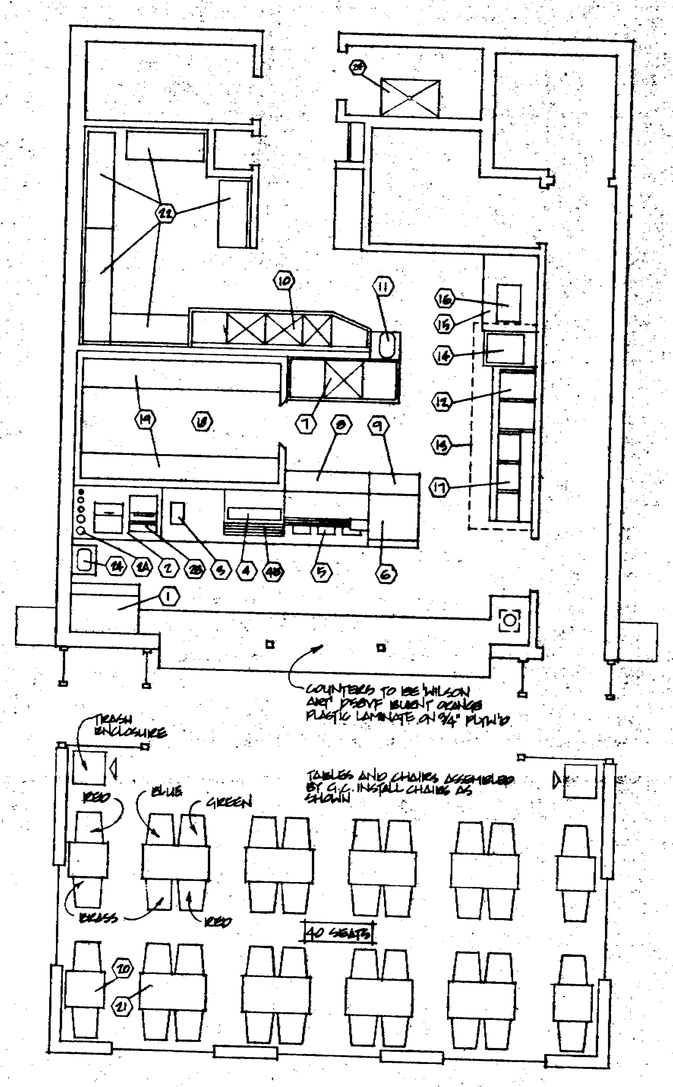
NOTES

INSTALL FIXTURES AS SHOWN, LEVEL, ALIGN FRONTS AND BOLT TOGETHER. MAKE PROVISIONS FOR ELECTRICAL AND PLUMBING HOOK-UPS

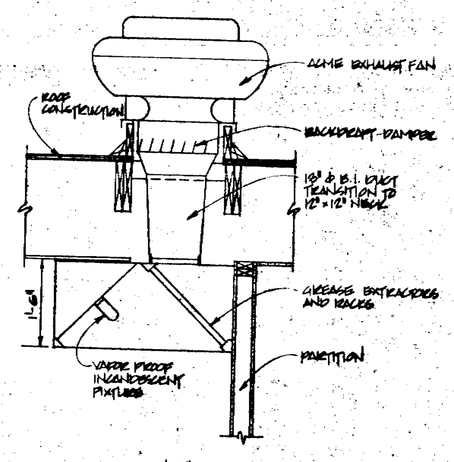
SEAL ALL EQUIPMENT W/ CLEAR SILICONE CAULK AT EDGES OF TOP AND BACKSPLASH AT WALL AND CONNECTIONS TO OTHER EQUIPMENT

REMOVE EXCESS SILICONE WITH LACQUER THINNER

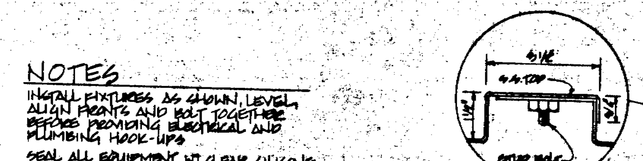
ATTACH WIRE RACKS TO BACK OF STEAM TABLE



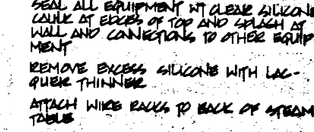
EQUIPMENT PLAN
SCALE 1/4"=1'-0"



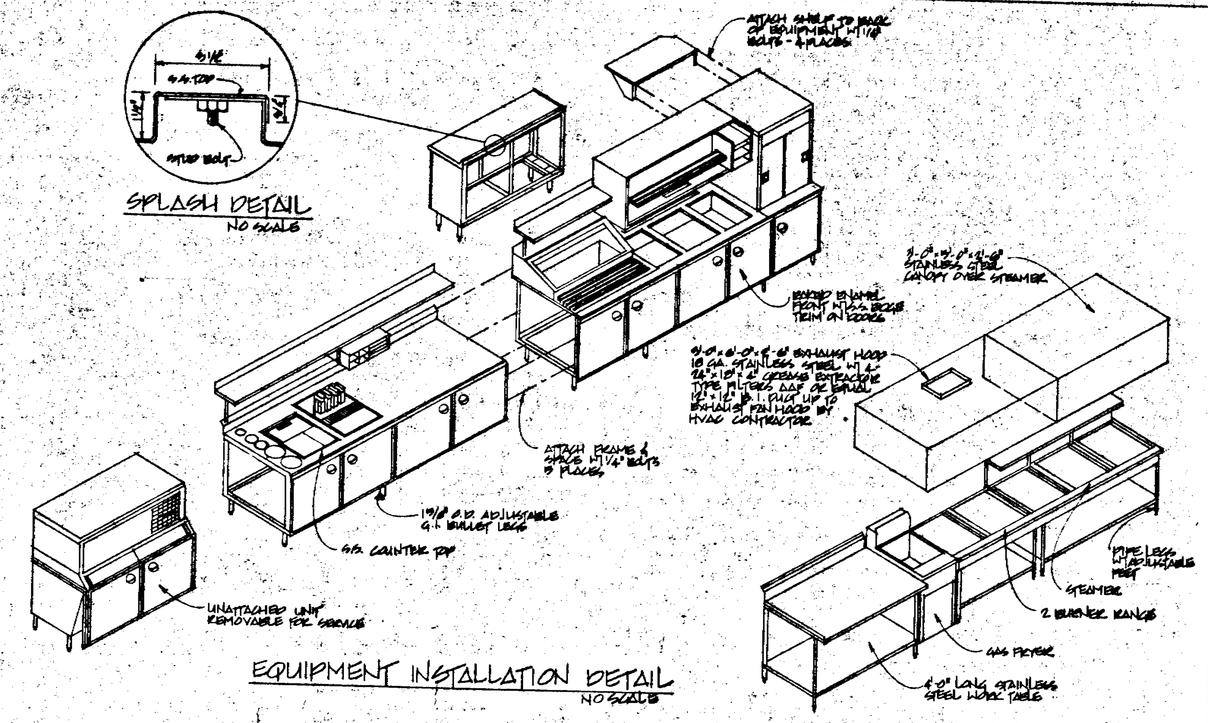
HOOD DETAIL
3/4"=1'-0"



SPLASH DETAIL
NO SCALE



COOLER DETAIL
NO SCALE



EQUIPMENT INSTALLATION DETAIL
NO SCALE

EQUIPMENT SCHEDULE (ALL ITEMS TO BE INSTALLED BY GENERAL CONTRACTOR)

NO.	QTY.	BY B.B.	BY T.B.	BY G.C.	ITEM	MANUF. & MODEL NUMBER	CW	HW	DRAIN	GAS	ELEC.	REMARKS
1	1	●			ICE MACHINE	KOLD DRAFT #261WB-S	1/2"		(2) 3/4"		120V/1ØA	
2	1	●			BEVERAGE UNIT	FABRICATED	1/2"		(2) 3/4"			
2A	4	●			CUP DISPENSERS	LILY 1 EG, 2 EG, & 4 EG						
2B	1	●			DRINK DISPENSER							
3	1		●		COFFEE MAKER	ALEX #8945			1 1/2"			
4	1	●			VEG. BIN & TACO RACK	FABRICATED					120V/2A 20A/1/00	
4A	1	●			OVERSHELF - TABLE MOUNTED				1"			
4B	1	●			TACO HOOP							
4C	2	●			SCRAP CANS							
5	1	●			STEAM TABLE W/ WARMING CABINET	FABRICATED		1/2"	1"	3/4" (GAS)	(3) 120V 20A/1/00	VERIFY GAS CONNECTION
5A	1	●			STEAM PAN DEPTHER PLATE	FABRICATED						
6	1	●			WARMING CABINET	FABRICATED		1/2"	1"	3/4" (GAS)		VERIFY GAS CONNECTION
7			●		VEGETABLE SINK	FABRICATED	1/2"	1/2"	2"			
8	1	●			SERVICE CABINET	FABRICATED						
9	1	●			SHELF OVER	FABRICATED						
10	1	●			3 COMPT. POT SINK	FABRICATED	(2) 1/2"	(2) 1/2"	(4) 2"			
11	1		●		FOOD CHOPPER	HOBART #4812					1/2 HP 120V/1/00	
12	1		●		TACO RANGE	U.S. RANGE #TR 5-48				3/4" (GAS)		
13	1			●	EXHAUST HOOD	FABRICATED						BY HVAC CONTR.
14	1		●		FRYER	SUPER CHEF #PA14P				3/4" (GAS)		
15	1		●		WORK TABLE	FABRICATED						
16	1		●		FOOD SLICER	HOBART #1712					1/3 HP 120V/1/00	
17	1		●		STEAMER	FABRICATED				3/4"		
18	1		●		WALK-IN COOLER 7'-0"x11'-0"	VOLLRATH			3/4"		120V/1/00	
19	1 LOT		●		SHELVING	FABRICATED						
20	9		●		2 SEAT TABLE	WILSON ART #DOVE						DISASSEMBLED BY G.C.
21	12		●		4 SEAT TABLE	WILSON ART #DOVE						DISASSEMBLED BY G.C.
22	1 LOT		●		SHELVING	FABRICATED						
23	1			●	LEMON JUICE	ATTACH TO LOCKWOOD	1/2"	1/2"	2"			
24	1			●	SHOWER PAN	AMER. STD.	1/2"	1/2"	1 1/2"			
25	1			●	SERVICE COUNTER	WILSON ART DOVE						
26	1		●		MEAT RACK							
27	1		●		PRYER SPLASH GUARD	FABRICATED						
28	15	●			TACO RANG W/ LINES							
29	2	●			TACO DISPENSER RANG							
30	1		●		HOLD DOWN SHELF	FABRICATED						

carlson/seekatz, inc.
ARCHITECTS
5121 W. BEAVER AVENUE
CHICAGO, ILL. 60630
(312) 775-7285

TACO BELL
825 N. CASS AVE. SUITE 1
WESTMONT, ILLINOIS 60559

REVISIONS
12-19-79

22941 1088

BUILDING TYPE
29-54-SJ

TACO BELL JOB NO

JOB NUMBER
79-28

DATE
5-25-79

SHEET NUMBER
EQ-1

REGISTERED PROFESSIONAL ENGINEER MICHAEL J. MAJOR No. 24880 CIVIL STATE OF CALIFORNIA

79-613

12

SPECIFICATIONS FOR THE CONSTRUCTION OF A TACO BELL RESTAURANT

OWNER: TACO BELL
17501 RED HILL AVENUE
IRVINE, CALIFORNIA 92715
714/754-5500

823 N. CASS AVENUE
WESTMONT, ILLINOIS 60559
312/920-9700

ARCHITECT: CARLSON/SEEKATZ, INC.
5131 W. PETERSON AVENUE
Chicago, Illinois 60646
312-775-7355

DATE: FEBRUARY 1, 1979

SPECIFICATIONS DATED PRIOR TO THE ABOVE DATE ARE OBSOLETE AND SHOULD BE DESTROYED.

I N D E X

SECTION	TITLE
1	Instructions to Bidders
2	Supplementary General Conditions
3	Excavating, Backfilling and Grading
4	Paving
5	Concrete
6	Masonry
7	Structural Steel
8	Drywall
9	Carpentry and Millwork
10	Painting
11	Glass and Glazing
12	Quarry Tile/Ceramic Tile
13	Roofing and Metal Flashing
P	Plumbing
H	Heating, Ventilating and Air Conditioning
E	Electrical
L	Landscape
S	Stucco

NOTE: Any additional trades or items not specifically mentioned herein shall still be subject to the General Conditions and Standards of Workmanship indicated throughout these specifications.

SECTION 1 - INSTRUCTIONS TO BIDDERS

1.1 In General: The Project is to be bid by the Contractor(s) exactly as drawn and specified, and all proposals shall be complete and inclusive of all work as shown and/or specified and as required by all applicable building codes. All Contractors and Sub-Contractors are held to have fully examined all drawings and specifications, not only of their particular concern but of allied trades as well, and to be fully familiar with conditions under which he will assume his work. Particular attention is drawn to the General Conditions and the Supplementary General Conditions of the specifications. The Contract shall be in the form of a single, lump sum of type of agreement.

1.2 Proposals: Sealed proposals shall be received by the Owner at such time and place as may be designated by him. Proposals shall be submitted in duplicate on forms provided by the Owner, and shall be enclosed in an opaque envelope, sealed and plainly identified on the outside with the name and address of the project and the name and address of the Contractor. Proposals shall be signed by legally authorized parties of companies only and titles of same shall be stated. The Owner shall retain the right to reject any and/or all proposals.

1.3 Acceptance or Withdrawal of Proposals: Any Contractor who has submitted a proposal to the Owner may withdraw his proposal at any time prior to the scheduled time for opening of same; however, once proposals are opened the Contractor agrees to honor same for a minimum of thirty (30) days after scheduled date of opening.

1.4 Discrepancies: Should a bidder find discrepancies or ambiguities in, or omissions from, the drawings and/or the specifications, or be in doubt as to their meaning or intent, he shall notify the Owner in time to allow for issuance of clarification by means of Addenda for delivery in sufficient time before proposals are due.

1.5 Qualification of Contractors: The Owner reserves the right to require any Contractor submitting a proposal to furnish any or all of the following information:
a) Performance record of projects completed over the previous two (2) years.
b) Address and description of plant or permanent place of business.
c) An itemized list of equipment.
d) Additional information as shall satisfy the Owner that the Contractor is adequately prepared to fulfill all requirements of the contract.

Such information shall be requested prior to the award of the Contract.

1.6 Distribution of Documents: Contractor desiring to bid the work may obtain plans, specifications and supplemental Bidders Package containing a copy of the contract, Contractor's Sworn Statement and Contractor's Buy Out Package Allowance from the office of the Owner. Plans and specifications to remain the property of the Owner and are to be returned to him, complete and in good condition, along with the Contractor's proposal. Use by unauthorized persons for any purpose whatsoever shall be strictly prohibited and is punishable under federal copyright laws.

1.7 Conditions: Submittal of a proposal by any Contractor shall constitute full acceptance by that Contractor of all conditions as herein stated.

1.8 Allowances: General Contractor shall install the following miscellaneous items, supplied by Taco Bell, as part of the General Contract.

BRIDGEWATER AND ASSOCIATES, 3328 S. MALT AVE., City of Commerce, California 90040. (213) 725-0700

Stock No.	Qty.	Item
	4	Outdoor Lanterns
C109	1	Safe
C109	3	Wrought Iron Chandeliers

Total, Standard Contractor's Order
*Quantity may vary according to Plot Plan

Kitchen allow three (3) weeks notice for delivery. The Contractor shall furnish all labor and materials required for unloading, receiving and installation of the above items.

SECTION 2 - SUPPLEMENTARY GENERAL CONDITIONS

2.1 Definitions:
Owner: The Owner shall be defined as Taco Bell, 17501 Red Hill Avenue, Irvine, California 92715, (714) 754-0500 or Midwest Office located at 823 N. Cass Avenue, Westmont, Illinois 60559, 312/920-9700, where used in conjunction with this project.
Architect: The Architect, for the purposes of this project, shall be the firm of Carlson/Seekatz, Inc., Architects, or a representative authorized by them.
Contractor or General Contractor: The person(s), company(ies) or corporation(s) with whom the Owner makes a direct contract for the work or any portion thereof, or for any materials or related services required thereto.
Sub-Contractor: Any person(s), company(ies), or corporation(s) with whom a Contractor makes a contract to furnish labor and/or service and/or material in connection with the project. Within the specifications and working drawings, the term "Contractor" shall be interpreted to mean Sub-Contractor where applicable unless further defined.
Project: The project shall be defined as the complete labor, materials and services required for construction of a Taco Bell Restaurant and all related work as described in the contract documents.
Site: The property on which the project is located.
Contract Documents: The contract documents shall consist of (1) The Building Construction Contract, (2) The General Conditions to the Contract (A.I.A. Form A-201, latest edition), (3) The Architectural Drawings and Mechanical Drawings, (4) The Specifications and (5) The Approved Plot Plan and Approved Landscape Plan. The dates including revision dates of all drawings and specifications shall be included on the proposal form.

2.2 In General: The Standard Form of General Conditions published by the American Institute of Architects (A.I.A. Form A-201, latest edition) shall be binding and the General Conditions included herein shall be supplementary thereto. In the event of conflict the Supplementary General Conditions shall govern.
The contract form shall be the building construction contract between Contractor and Owner where a stipulated sum forms the basis of the contract. Copies of the above forms are on file at the Owner's office.
It shall be accepted as a fact that concerned Contractors have inspected the site prior to submitting their bid and no additional compensation shall be allowed for failure to fulfill this requirement. It is not to be construed, however, that the Contractors have included in their bids amounts to cover unforseen conditions or obstacles other than those indicated on the drawings or visually apparent at the site. Should unforseen conditions arise the Owner shall be notified immediately.
The following specifications are divided into chapters and each Contractor is to figure on that portion with which he is concerned. It shall be the responsibility of each Contractor to read and familiarize himself with the General Conditions and Supplementary General Conditions which shall be considered equally binding with the remaining specifications.
Any controversy or claim arising due to a labor conflict caused by the working or assignment of these specifications shall be settled in accordance with local governing labor practice.
Whenever an alternate is called for the Contractor is responsible for substituting the cost of materials and labor required to complete alternate installation, and for crediting to the Owner any materials and/or labor not necessary in the alternate proposal.

2.3 Drawings and Specifications: All work shall be executed according to the true meaning and intent of the drawings and specifications which are intended to include everything requisite and necessary for the proper and entire finishing of the work, notwithstanding that each and every item necessarily involved in the work is not specifically mentioned, and the work, when completed, shall be delivered to the Owner in a perfect and undamaged condition without exception.
The drawings and specifications are intended to be cooperative and the work or materials called for by the drawings and not mentioned in the specifications or vice-versa shall be furnished and performed in as faithful a manner as though treated by both.
Before submitting his estimate each bidder shall carefully check the drawings and specifications and should he find any conflict, uncertainty, or discrepancy as to his requirements, he shall report same to the Owner immediately, who will make a ruling on such report and will notify all concerned bidders as to his decisions. Should such conflict, etc., be discovered after signing of the contract, it shall be called to the attention of the Owner and his decision in regard thereto shall be final.

2.4 Precedence of Drawings: The order of precedence of drawings shall be as follows:
1) Specifications take precedence over drawings.
2) Larger scale drawings over smaller scale drawings.
3) Figured drawings over scale drawings.
4) Supplementary General Conditions over A.I.A. General Conditions.
5) Architectural drawings over mechanical and electrical drawings.
6) Any addenda over all material of an earlier date.
7) Equipment drawings, as may be provided by the Owner, over architectural and mechanical drawings of earlier date.

2.5 Sales Tax: Each Contractor shall pay all state and local sales and occupational taxes as may be levied by the governmental agencies regarding the work.

2.6 "Or Equal" and "Approved Equal": The terms "Or Equal" and "Approved Equal" shall indicate substitution of item(s) and/or materials and/or methods equal to or superior to those drawn or specified. Any substitution shall be approved in writing by the Owner upon receipt and study of complete information regarding same.

2.7 Materials and Workmanship: Unless otherwise particularly stated, the Contractor shall furnish and install ALL materials and labor mentioned in these specifications and/or shown on the drawings, and all work shall be executed in a neat and skillful manner to the entire satisfaction of the Owner.

2.8 Sub-Contracts: The names of all proposed Sub-Contractors shall be approved by the Owner prior to award of the contract. The Sub-Contractor shall be bound by the specifications. No Contractor or Sub-Contractor shall sublet or assign his contract or any part thereof without the written approval of the Owner.

2.9 Laws and Ordinances: The Contractor(s) and all Sub-Contractors shall comply in all respects with all laws and ordinances having jurisdiction over the work and/or materials or methods employed in performing same. No additional compensation shall be allowed Contractors for failure to familiarize themselves with all conditions under which they will perform their work unless these conditions are brought to the Owner's attention prior to signing of contracts and provision for adjusting costs are made at that time.

2.10 Permits, Bonds, Etc.: The Contractor(s) shall take out and pay for all permits, bonds, etc. Should separate contracts be awarded, each Contractor shall be responsible for permits, fees, bonds, licenses, etc., as may be required by work covered under his portion of the contract. Receipts for same shall be turned over to the Owner upon completion.

2.11 Protection: Each Contractor shall barricade and/or shelter his work as to reasonably protect it from damage. All barricades shall be so arranged as to insure a reasonable visual and physical warning for workmen and the public. Provide flashing type blinkers around open trenches.
The Contractor(s) shall be held responsible for any damage to his work as may be due to negligence of the above, or as may be caused by accident, wind, rain, snow, freezing, riot, malicious mischief, or labor commotion, theft, etc., if due to his acts, omissions or negligence, and shall, if such damage occur, restore the work at its previous condition at no cost to the Owner.

2.11 Protection (Continued):
Contractor(s) shall protect all adjoining property from damage during the course of the work. If required by local laws or ordinances, he shall issue notices to Owner of said property. No use of adjacent privately owned property by any Contractor without written permission by its Owner shall be allowed.

2.12 Insurance: In General, the Contractor(s) and the Sub-Contractor(s) shall maintain such insurance as shall protect him, the Owner and the Owner's agents and representatives from any and all claims under Workmen's Compensation Acts and from all claims for damages because of bodily injury, including death, and all claims for property damage arising from his operations and/or the operations of Sub-Contractors employed by him, and shall be to the amounts as stated herein. Sub-Contractors, if not covered by the Contractor's insurance, shall provide similar insurance of their own.
"Hold Harmless" Clause: The certificate shall state that this endorsement is included in the policy(ies).
The Contractor assumes the liability for all losses, damages (including loss of use), expenses, demands and claims in connection with or arising out of any injury or alleged injury to persons (including death) or damages or alleged damage to property, sustained or alleged to have been sustained, in connection with or to have arisen out of the performance of the work by the Contractor, his Sub-Contractors, and their agents, servants and employees, including losses, expenses, or damages sustained by the Owner and the Architect. The Contractor hereby undertakes and agrees to indemnify and hold harmless the Owner and the Architect, their agents, servants, and employees, from any and all such losses, expenses, damages (including loss of use), demands and claims, and shall defend any suit or action brought against any of them, based on any alleged injury (including death) or damage (including loss of use) and shall pay all damages, judgments, costs and expenses, including attorney's fees, in connection with said demands and claims resulting therefrom.
The above clause shall apply in all states unless restricted by state statute. Should this be the case, the maximum form of "Hold Harmless" allowed by the law shall be provided.
Workman's Compensation Insurance: Shall be up to date and in force and shall be such as to protect the Owner from any and all claims arising under compensation acts. Such insurance shall cover all employees, and shall be of unlimited, or statutory amount.
Public Liability Insurance: Shall have limits of not less than $250,000.00 for any one person and $500,000.00 for any one accident.
Property Damage Insurance: Shall have a limit of not less than $50,000.00 per accident.
Fire and Extended Theft Coverage: Limits in the amount of contract with no more than $100.00 deductible.
Builders Risk Insurance: Including fire with extended coverage, vandalism, and malicious mischief, shall be maintained by the Owner (see Article 15, A.I.A. General Conditions).
Insurance policies shall be taken out by the Contractor(s) immediately after award of contract and prior to any work being done. Upon obtaining policies the Contractor(s) shall notify the Owner and certificates and/or duplicate policies from insurance companies shall be filed with the Owner showing policy numbers, dates, policies shall be in effect, and all limitations and exclusions. Certificates shall state that the insurance company shall notify the Owner by registered mail ten (10) days prior to the expiration or cancellation of any policy.

2.13 Bonds: A performance bond and a labor/material payment bond, if requested by the Owner, shall be taken out by the General Contractor, and shall be paid for by the Owner in addition to the contract amount unless otherwise agreed to.

2.14 Miscellaneous Services and Temporary Facilities: The General Contractor shall be in charge of the premises from the start to the completion of the building and shall furnish the following:
1) Laying out of all work and establishing general building lines and levels; this to be confirmed with the Owner.
2) Temporary electric power during the period of construction; this does not include portable generators for use of other trades.
3) Heating of building for working and drying purposes during the period of construction.
4) Temporary ladders as required for access to all work.
5) Water for construction use.
6) Acceptance, unloading and storage if found necessary by Contractor's negligence, of Owner's equipment delivered to the site are the responsibility of the General Contractor.

2.15 Inspections and Tests: The Sub-Contractors shall call for all inspections as may be required by local authorities and listed therein allowing a minimum of two days notice for inspections to be made.
Inspection by the Owner shall be specifically required for stake-out and establishment of building elevations and for all plumbing and electrical work occurring under concrete slabs or otherwise buried, as well as any other work specified in the following chapters, prior to concealment of same.
The Owner has the right to order tests and/or laboratory examination of any material or work used or performed on the project should he suspect such material or work to be of lesser quality than specified herein. The costs of all such tests shall be paid by the Owner unless they indicate work or materials to be of lesser quality, in which case they shall be paid for by the Contractor(s) concerned, along with any expenses incurred in correction of the work.

2.16 Checking Preceding Work: Before starting work each Contractor shall examine work previously installed and shall immediately report to the Owner any visible defects or conditions which would adversely affect the quality and/or completion of his work. It shall be assumed all conditions are acceptable if no such report is received.

2.17 Cutting and Fitting: Each Contractor shall execute all cutting and fitting of his work as may be required by other trades so as to insure as near perfect fit of materials as possible.

2.18 Damaged Work: Each Contractor shall pay for replacement of any work damaged by him or those employed by him in connection with the contract, and such patching or replacement shall be performed by skilled men specializing in that particular trade so as to restore damaged work to completely acceptable condition. Should responsibility for damage be unable to be determined, the cost of repairing same shall be pro-rated among Contractors working on the job at the time the damage occurred as determined by the Owner. The decision of the Owner shall be final.

2.19 Advertising: No advertising shall be allowed without the written permission of the Owner.

2.20 Completed Work: Completed work as called for by the Contract shall be delivered to the Owner free from liens, claims, or encumbances of any description whatsoever against the Owner. Acceptance of such work shall be defined as approval for final payout.

2.21 Maintenance and Cleaning of Premises: Throughout the period of construction each Contractor or Sub-Contractor shall be responsible for satisfactorily maintaining the premises in a neat and clean condition insofar as his respective trade is concerned.

2.21 Maintenance and Cleaning of Premises (Continued):
This shall mean removal of all refuse and debris from the premises.
All equipment and materials shall be stored in a neat manner and so as to protect them from any damage from the elements. Building shall be maintained in a generally clean condition during the period of construction and upon final completion a professional service shall be supplied by General Contractor to thoroughly clean all glass, floors, furniture and equipment.

2.22 Guarantee: All labor, materials and equipment required by the Owner-Contractor Agreement(s) shall be fully and unconditionally guaranteed by the Contractor for a period of one (1) year from the date of final acceptance or the date that equipment is put into operation by the Owner, unless otherwise specified in specific chapters herein.

2.23 Work Not Included: The following items, materials or services are not included as a part of the General Contract and shall be supplied as noted.
1) Food Service Equipment: As indicated on the drawings shall be supplied by the Owner and installed by the Contractor including the stainless steel sink.
2) Building Signs: Shall be provided and installed by the Owner.
3) Prefabricated Walk In Cooler and Freezer Units shall be supplied by the Owner and installed by the Contractor.
4) Lasers: The Contractor shall furnish all labor and materials required for unloading, receiving, and installation of Items 1 and 2.

SECTION 3 - EXCAVATION, BACKFILLING AND GRADING

3.1 General Statement: The General Conditions and the Supplementary General Conditions chapters shall apply herewith.

3.2 Scope: This Contractor shall furnish all necessary labor, materials, equipment, transportation etc., required to properly clear the site and prepare it for construction of a restaurant as shown on the drawings and as specified herein. For particular site requirements the Contractor should refer to the Plot Plan. Backfilling and grading are also by this Contractor as specified herein. Utility trenching and filling are by others.
Demolition, if required, shall be bid separately but as a part of this contract. Demolition shall include removal of all debris, cutting off of all power and utility lines, removal of foundations to be one (1) foot below finish grades shown on the Plot Plan, removal or filling of all underground tanks (as required), etc. Any salvage shall be the property of the Contractor performing the work, upon receiving written approval from the Owner.

3.3 Materials and Methods:
a) Cleaning and Stripping: The site shall be cleared of all trees, rocks, existing buildings and foundations, sidewalks, curbings, drives, underground tanks, and other obstructions, as may be shown on the property survey and/or site plan, or as may be visually apparent on the site. Black or organic topsoil shall be stripped from all areas of construction and shall be stockpiled at designated locations for future use, or shall be removed from the site if not needed.
b) All lines for locations of the building are to be laid out by the General Contractor and approved by the Owner prior to the start of any work. Excavation for foundations shall be to such depths as is normal, local practice and as may be required by local codes, but in all cases to firm bearing. All excavated material shall be stored in piles at locations most advantageous to later backfilling and rough grading operations or as may be instructed by the Owner. Excess materials shall be removed from the site. Mechanical digging for footings shall be to within 2" of the bottom of the footings as shown, the remaining 2" to be hand dug by others.
c) Backfilling, Filling and Grading: As soon as foundations are complete and have been inspected, this Contractor shall backfill and rough grade the entire site within 8" of finish elevations shown on the site plan. All material shall be thoroughly compacted and uniformly graded to provide proper drainage. Fill under all concrete slabs shall be clean sand or pit run gravel, free from organic material, placed in 6" layers and compacted by means of pneumatic compactors. Finish grade inside building shall be 8" below finished floor.
This contract includes providing and placing all necessary fill except fill noted as "Base Course" fill in the "Paving" specification and backfill for mechanical trenches. All fill supplied under this contract shall be clean clay material carefully placed in 6" lifts and compacted by mechanical tampers to 95% proctor.
d) Finish Grading: Final grades in any areas indicated as landscaped or unpaved areas shall be to grades shown using black topsoil of a minimum depth of 6". If necessary, this contract shall include such material.
e) Cooperation: This Contractor shall cooperate with all other trades affected by his work, particularly those of paving, concrete and plumbing, so as to properly coordinate in properly expediting the project.
f) Special Conditions: Should special, unusual or unforseen conditions such as rock, water, poor soil conditions, etc., which are not covered in this specification, by the original contract, or on the Plot Plan be encountered, the Contractor shall immediately notify the Owner in writing, and shall not proceed with any work affected by these conditions until a satisfactory agreement is reached relative thereto.

3.4 Guarantee: This Contractor shall be responsible for and shall so guarantee all work performed under this contract for a period of one (1) year from date of acceptance, against any settlement or other faults detrimental to appearance or quality of the finished project. This Contractor shall repair and/or replace, or shall pay for repair or replacement, of not only his own work but that of others as well, should such faults occur.

SECTION 4 - PAVING

4.1 General Statement: The General Conditions and the Supplementary General Conditions chapters of this specification shall apply herewith.

4.2 Scope: This contract includes all required material, labor, equipment, transportation, etc., as required to complete asphalt paving as shown on the Plot Plan, and includes striping, curb markings, and precast concrete wheel bumpers.

REGISTERED PROFESSIONAL ENGINEER MICHAEL J. MADONA No. 27880 CIVIL STATE OF CALIFORNIA

JOB NUMBER 78-20
DATE 5-25-79
SHEET NUMBER SP-1

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4.3 Methods and Materials:
a) Sub-grade: The sub-grade shall be rough-graded to approximately 8" below finished grades shown by others (see Section 3, Excavating). This Contractor shall finish grade for proper drainage and shall compact sub-grade by rolling with a ten (10) ton roller. Any depressions that develop shall be filled and the surface rolled again. The surface shall be dry and well-drained before placing paving, and shall be free of frost, mud, pockets or otherwise unsatisfactory conditions.
b) Base: Over sub-grade lay a 8" thick water bound Macadam base in two courses. First course shall consist of clean, hard, durable particles of crushed limestone graded so that 100% shall pass a 3" ring and not to exceed 5% shall pass a 1" ring. Spread stone evenly without segregation of sizes to such depths as will produce a 4" course after rolling.
Rolling shall begin at edges of drive or area with roller traveling parallel to the longer axis. When edges are thoroughly rolled, rolling shall proceed gradually toward the center of pavement. Continue rolling until stone ceases to creep or wave ahead of roller. Completed work shall not show any irregularities exceeding 1/2" when tested with a ten foot straight edge.
Key heavy stone with finer stone and spread screenings in thin layers in such amounts as will fill interstices of larger stones. Screenings shall be distributed by means of a mechanical spreader and shall be swept and rolled dry continuously during this process.
Immediately after voids have been filled as above, sprinkle surface until saturated. Follow sprinkler with roller and continue addition of screenings, sprinkling, sweeping and rolling until grout formed by screenings and water fills all voids to the satisfaction of the Owner and forms a small wave in front of wheels of roller.
Conduct water binding operation in sections of such extent that each section can be completed in a day's work, leaving no portions partly water bound overnight.
Over first course lay a second course of same specification to form the six inch (6") thick base (compacted thickness).
In geographic areas where bank run gravel, limestone or other free-draining base courses are customarily used for area paving, these methods may be substituted provided the material and method of pavement is detailed and written approval is given by the Owner at the time of originality.
c) Wearing Surface: Prime surface of Macadam base with asphalt primer and apply a wearing course composed of bituminous binder, sand and fine chips or screenings, plant mixed and delivered to job all ready for use without additional heat. Surfacing material and application thereof shall be Fine Dense Graded Aggregate Asphalt Concrete in accordance with local state highway department specifications.
Place mixture to required depth with uniform grade and roll to a true even surface having a compacted thickness of not less than 2". Dust lightly with sand to protect surface while curing. All asphalt shall be plant mixed.
d) Weather Conditions: Binder or other bituminous material shall not be applied when stone or foundations are wet or when conditions are otherwise unsuitable for good work as determined by the Owner, and by standard practice of the industry.
e) Testing Surfaces: After completion, test pavement with a ten (10) foot straight edge laid parallel with center line of pavement. Any depressions exceeding 1/2" shall be satisfactorily eliminated or pavement relaid.
f) Drainage: When sewer connected drainage or pavement drains are provided it is essential that all paving constructed under this section be accurately laid out and constructed so that water will run off as indicated. When there are no sewer connected drains this paving shall be pitched away from the building toward the property lines and/or drives and/or as may be shown on the Plot Plan or required. All paving must be set 6/10 of a foot below all building walks to protect building from vehicle traffic.
g) Winter Paving: When asphalt plants are closed between the months of December and May, pavement shall consist of a compacted stone base as described herein. In bidding a job, where completion is scheduled to fall in the period when asphalt is not available, the Contractor shall include in his bid the cost of finish grading as rapidly as possible, preparing sub-grade and rolling in a compacted stone base with screenings, penetrating with oil if possible.
He shall also have the responsibility, under the original contract on a winter program, of coming back in the spring, rerolling the stone base, bringing up to finished grade any area that may have become depressed with the spring thaw, and finish paving with two inches (2") (total) of bituminous concrete laid as specified herein.

4.4 Striping: The Contractor's attention is called to standard requirements of complete line striping the parking area as detailed on the Plot Plan. Standard striping shall be highway white. Machine spray two coats first quality traffic paint. In case of a winter construction program, striping shall be installed on the temporary surface prior to the store's opening. This striping will continue to be the responsibility of the General Contractor to be performed again after the wearing course of asphalt is laid in the spring.

4.5 Precast Concrete Car Bumpers: After finished asphalt paving has been laid and line striping completed, precast concrete car bumpers seven feet (7') long with beveled stress shall be provided and installed as indicated on the Plot Plan. These shall be of standard local manufacture and shall be anchored in place with two foot (2') long steel dowels in at least two points.

4.6 Guarantee: This Contractor shall guarantee all work performed by him under this contract against settlement, cracking, crumbling and other defects, unconditionally, for a period of one (1) year after the completion of the work.

4.7 SEALER CONTRACTOR SHALL SEAL ASPHALT PAVING WITH TWO (2) COATS OF JENNITE SEALANT. FIRST COAT SHALL BE SAND SLURRY. INSTALL JENNITE NO EARLIER THAN THIRTY (30) DAYS AFTER PAVING HAS BEEN COMPLETED. PAVEMENT SHALL BE STEPPED AFTER SEALING.

SECTION 5 - CONCRETE

5.1 General Statement: The General Conditions and the Supplementary General Conditions chapters of this specification shall apply herewith.

5.2 Scope: This Contractor shall supply all necessary labor, materials, equipment, transportation and taxes required to complete all concrete work as shown on the drawings and/or specified herein, including foundations, interior and exterior slabs, walks, curbs, and gutters, drive approaches, etc. All plain and reinforced concrete work shall comply with the latest A.C.I. code (A.C.I. 318-71). Excavation is by others except final two inches (2") which is hand excavated by this Contractor (footings and grade slab). Depth of footings shall be in accordance with local building practice and applicable codes and regulations.

5.3 Materials and Methods:
a) Layout: This Contractor along with the General Contractor shall stake out the building with all lines and dimensions conforming exactly with those on the drawings. Elevations as shown on Plot Plan refer to bench mark indicated. Any discrepancies in the dimensions shall be reported to the Owner immediately.
b) Cooperation: It shall be the duty of this Contractor to cooperate with all Contractors in the building in the forming of their work. He shall examine the drawings for all structural, heating, plumbing, ventilating, electrical and other mechanical work, and provide openings in concrete for all beams, columns, lintels, pipes, ducts, and other openings required by other Contractors. Sleeves for pipes will be furnished by others. This Contractor shall do all forming required by other openings, except where frames are shown to be provided by others.
c) Concrete and Reinforcing Steel: All concrete shall be minimum $ 1/2 bag mix, 3000 psi at 28 day strength concrete or better per PCA specification. Concrete shall have 6% PCA approved air-entraining agent. No other chemical additives shall be allowed without approval of the Owner. Ready-mix concrete shall be placed in forms within 90 minutes of placement in truck. No retempering of concrete shall be allowed. All concrete placed in adverse weather conditions shall be done so following the recommended practices of the PCA and the Owner.
Reinforcing, unless unforseen conditions arise, shall consist only of welded wire mesh for slabs and sidewalks. Mesh shall be of standard sizes as indicated on the drawings, lapped at edges, and placed approximately 1 1/2" from the bottom of the slabs. Mesh shall be free of rust, scale or other properties detrimental to its use.
Should unforseen conditions arise requiring the use of reinforcing steel bars at walls and/or footings, standard deformed steel reinforcing bars shall be provided and placed in accordance with engineering drawings that will be provided upon request by the Architect.
d) Footings: All footings shall bear on firm, undisturbed soil and shall be accurately located in accordance with the drawings. All loose dirt shall be removed from between form boards. Minimum allowable soil bearing value allowable is 3,000# / sq. ft. Notify Architect before commencing construction, if values are believed to be less.
e) Walls: If poured walls are used they shall be accurately formed directly on top of footings using plastic faced wall forms. Forms shall be aligned and adequately braced prior to placement of concrete. Immediately after placement, walls shall be rechecked and shall be realigned and rebraced if necessary. Concrete shall be placed in such a manner as to avoid segregation of aggregates. Spray inside face of forms with approved form oil just prior to pour. Concrete shall be mechanically vibrated or rodded after placement to assure filling up all corners and other forming configurations and to avoid "honeycombing".
Forms shall remain in place until it is evident that concrete is of sufficient strength to carry loads, but in no case less than 5 days for normal concrete or three days for high early strength concrete.
f) Slabs: All concrete slabs as indicated on the drawings shall have minimum thickness of 4" and shall be reinforced with 6" x 6" #10/10 mesh and shall be placed over a minimum of 4" of pea gravel or "Torpedo" sand.
All underslab fill as required shall be sand or pea gravel and 4" thick. This Contractor may have to do some hand grading to assure proper finish elevations for slabs.
Between fill and slab provide a .006" Visqueen (polyethylene) vapor barrier, lapped 10" at all edges (interior slabs only).
g) Sleeves, Chases, Etc: All sleeves, chases, pockets, etc., as required by various trades and as shown on the drawings shall be accurately installed by this Contractor. Other sleeves, chases, pockets, etc., required by various trades shall be installed and/or provided by this Contractor if information and necessary materials are provided him by concerned trades prior to completion of involved formwork.
h) Perimeter Insulation: In all localities where the winter design temperature is 10 deg. F. or less, this Contractor shall furnish and install one inch thick DOW Styrofoam SB perimeter insulation as shown on the drawings. Design temperature information is available from local heating Contractors or building authorities.
i) Expansion Joints in Walks and Curbs: Provide and install 1/2" premolded expansion joints as detailed on the drawings (maximum spacing 20'C).
j) Light Pole Bases (Where shown on the Plot Plan): Shall be poured concrete bases as detailed on the drawings and shall be by this Contractor. After removal of forms, clean and wash exposed surfaces of bases with cement wash.
k) Finishes: Interior slabs to receive ceramic or quarry tile shall be floated level and true and left ready to receive finish material.
Exterior slabs and walks shall be floated true to line, properly pitched for drainage, and finished with a fine textured, uniform, soft broom finish. Score walks neatly at 5'-0" intervals maximum.

SECTION 6 - MASONRY

6.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are part of this contract.

6.2 Scope: This contract includes all necessary labor, materials, transportation, taxes, equipment, etc., as required to complete all masonry work as shown on the drawings or as specified herein.

6.3 Cooperation: This Contractor shall thoroughly examine all other drawings so as to familiarize himself with the work of the other trades which shall affect his work. Particular attention is called to the mechanical drawings. He shall cooperate with other trades in building in such items as chases, pipes, etc., as may be required by their work.

6.4 Materials:
a) Mortar: Type M, ASTM-C-270-68 colored to match concrete slumpblock. Do not use slag cements.
b) Slumpblock: Slumpblock structural block as manufactured by General Concrete Products or Taco Bell approved equal, size as noted on plans, color shall be tan.
c) Wall Reinforcing: Dur-O-Wal No. 8 truss design masonry wall reinforcement shall be installed spaced 16" o.c. vertically.
d) Grout: Grout shall consist of one part Portland Cement, 3 parts sand and 2 parts 3/8" pea gravel. Water shall be added to produce a consistancy suitable for pouring. No more than 7-1/2 gallons of water per sack of cement.

6.5 Storage of Materials: All mortar materials shall be stored under cover in a dry place. During freezing weather all masonry units shall be protected with tarpaulins or other suitable materials. Reinforcement shall be protected from elements and, before being placed, shall be free from loose rust and other coatings, including ice, that will destroy or reduce the bond.
Slumpblock shall be stored clear of the ground and in such a fashion as to prevent any staining or discoloration.

6.6 Workmanship:
a) General: All walls and piers shall be laid up straight, level and plumb between two lines, to true lines and levels and joins and sizes and joints, and with all open joints fully flushed up, and all voids located in accordance with the drawings. Accurately locate all openings as shown and/or required, and completely seal around all pipes, beams ducts, joists, and other perforations of the wall so as to eliminate sound transmission. Pipes and conduits in walls shall be concealed wherever possible.
Metal door frames shall be furnished and set by others, anchored to wood framing; this Contractor to set in outer face solidly and neatly.
All exposed joints, after sufficient setting up, shall be raked 1/4" deep maximum, both horizontally and vertically.
b) Sleeves and Chases: Provide all chases, recesses or openings for pipes shown or indicated on the drawings of ample size to receive the work for which they are intended. Build in any sleeves as may be provided by others.
c) Lintels, Bolts, and Miscellaneous Loose Steel Plates: As shown on the drawings and embedded in masonry, shall be provided and installed by this Contractor as shown. Lintels shall be fully bedded in Portlan cement, mortar, brought to proper level, and shall have a minimum of 4" bearing on each end.

6.7 Protection of Work: All masonry walls, at the end of daily work or when not being worked on, shall be well protected and covered from the elements. Wherever necessary, brace all green walls in an adequate and substantial manner.

6.8 Adverse Weather Conditions: No masonry work shall be performed with the temperature below 32 degrees F. and, when masonry is laid when the temperature is 40 degrees F. or less, all materials shall be heated and properly and adequately protected from freezing until the mortar is set. No additives such as anti-freeze shall be used.
When the temperature is above 80 degrees F, all masonry units shall be thoroughly wetted before use.

6.9 Flashing: Provide and install three ounce copper Sisalkraft or Wasco or approved plastic type flashing wherever shown on the drawings.

6.10 Cutting and Patching: The Contractor shall do all cutting and patching or pointing of the work installed by him that may be required in the installation of the work or to accommodate the work of other Contractors.
All of this cutting and patching work shall be executed in a neat manner, and so as not to mar the appearance of the finished work.

6.11 Cleaning and Pointing: All work shall be cleaned upon its completion as specified herein.
All masonry shall be brushed with a stiff fiber brush (wire brush is not permitted), and all joints shall be pointed up. After dry-brushing and pointing of joints the surfaces shall be cleaned with water and an approved detergent compound and thoroughly flushed with water.

6.12 Cleaning Up: Upon completion of his work, this Contractor shall thoroughly clean up the premises of any and all debris left as a result of his work, including extra masonry, sand, etc. Paper containers, etc., emptied during the course of the work shall be piled and burned in an area designated by the General Contractor.

SECTION 7 - STRUCTURAL STEEL

7.1 General: The General Conditions and Supplementary General Conditions chapters shall apply herewith.

7.2 Scope: The contract shall provide structural steel shown on the drawings and/or specified herein. Structural steel in this section of the specification is defined as, furnishing, fabrication, and erection of all steel elements required for the support of the structure, including framed lintels. These are shown and identified as to their size, unit weight and location on the drawings. This contract includes rolled steel sections, structural steel supporting structures, etc., providing for the installation of other work as may be required and shown.

7.3 Materials: Materials furnished under this section for installation by others wall bearing plates, setting plates, and anchor bolts shown and identified are on the structural portions of the drawings.

7.4 General Requirements: Material, design, fabrication and erection of structural steel--in accordance with the requirements of the A.I.S.C. "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings", adopted February 12, 1969 and "Code of Standard Practice" adopted by A.I.S.C., 1924 and revised July 1, 1970, except as superseded and added to by the local building ordinances, A.S.T.M. designation for material used as shown in general notes on drawings.

7.5 Connections: Beam connections shall be designed to support loads shown on the drawings or half the total uniform capacity tabulated in the tables for "Allowable Loads on Beams" in the A.I.S.C. specifications 1969 edition.
Shop connections--bolted or welded as approved by the engineer and designed in accordance with section 1.15 of the A.I.S.C. specifications 1969 edition.
High strength bolts with special tempered washers meeting the requirements of A.S.T.M. A325 shall be used. Bolts 3/4 inch unless otherwise shown on the drawings. All holes shall be 1/16 inch larger than bolt. Columns milled "A" give full bearing over the cross section. The welding shall be only by operators qualified to work in accordance with requirements of the American Welding Society standards latest publication shall be employed, A.S.T.M. A-233 Class E-60 and Class E-70 series electrodes for manual arc welding and grade saw-1 or grade saw-2 submerged arc process shall be used for welding A-36 steel, beams, girders and columns. All welds made in field shall be repainted to match shop painting.

7.8 Shop Painting: Before leaving the shop, steel work herein specified, shall be thoroughly cleaned of all loose mill scale, rust and foreign matter, and given one shop coat, as per manufacturer's recommendations, applied thoroughly, evenly, and well worked into joints and open spaces. All paint shall be applied to dry surfaces.

7.7 Storage of Fabricated Steel at the Job Site: Material stored at the job site shall be so placed that no members shall be damaged and shall be protected against corrosion or deterioration of any kind. The Owner reserves the right to reject any material that has become damaged because of improper storage.

7.8 Erection: Work shall be erected as progress on the job will permit and shall be set accurately to the lines and levels established by the drawings. Structural Steel Contractor shall work in close cooperation with the General Contractor and other Sub-Contractors.

SECTION 8 - DRYWALL & ACOUSTIC TILE

8.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are a part of this contract.

8.2 Scope: This contract shall include all necessary labor, materials, equipment, transportation, services and taxes necessary to complete the installation and finishing of drywall as specified herein. This includes furnishing of all metal corner beads and other accessories as required by the general details of the drawings or work, or as may be shown.

8.3 Materials and Methods of Installation: All drywall as shown shall be standard tapered edge gypsum board as manufactured by the U.S. Gypsum Company, the National Gypsum Company or Bestwall. Installation of the material shall be either nailed, nailed and glued, or screwed; however, any installation method shall be in strictest accordance with the manufacturer's instructions and specifications for the installation of materials. All drywall shall be Firecode bearing U.L.A. label of 5/8" thickness as shown on drawings except for toilet rooms which shall be 5/8" thick water resistant sheetrock "Greenboard".

8.3 Materials and Methods of Installation (Continued):
Materials shall be stored in the building for a minimum of 24 hours prior to use, and all materials as well as surfaces to which they are to be applied shall be in a dry condition. Building temperature shall have been maintained at not less than 65 degrees F. for a period of 48 hours prior to installation of any gypsum board. Material to be installed on walls shall be installed horizontally. End joints shall be staggered in all cases. Drywall shall be finished using the standard U.S. Gypsum three-coat Perf-A-Tape joint system in accordance with the latest specifications published by the U.S. Gypsum Company.
Prior to doing any work, this Contractor shall inspect all surfaces with which he will be concerned, and should he find any conditions which he feels will be detrimental to his turning out a first class job, he shall report such conditions to the Owner before beginning any work. Starting work under this contract constitutes acceptance of condition of the base.
8.4 CLG TILE SHALL BE AS SPECIFIED ON DRAWINGS.

SECTION 9 - CARPENTRY AND MILLWORK

9.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are a part of this specification.

9.2 Scope:
a) General: This section shall include the furnishing of all labor, materials, equipment, services, etc., necessary for and incidental to the completion of all rough and finish carpentry work, millwork, installation of rough and finish hardware, and all other items as may be specified herein. This Contractor shall also include the installation of all items indicated as being provided by the Owner. The Carpentry Contractor shall consult the drawings and specifications of the other trades doing work in connection with the carpentry trade, and shall advise the General Contractor (if other than himself), so as to properly coordinate and complete the installation of their work, and to best expedite the project as a whole. Any carpentry work or materials which are not specified under other section headings, and which are necessary to or required for the completion of the work, shall be done by this Contractor.

9.3 Cooperation: When work under this section connects with work of other trades, the Carpentry Contractor shall do all necessary cutting and fitting so as to leave the entire work in a finished condition. He shall furnish labor and materials to the furtherance of this end, whether or not distinctly shown or specified. Particular attention shall be paid to the requirements of the various mechanical trades.

9.4 Framing and Rough Carpentry: This includes all materials and labor for installation of same for sheathing, stripping, wall studs, joists, etc., as indicated herein and other than as specified under Millwork. Framing is to be securely anchored, bolted, spiked, nailed, screwed, or otherwise assembled to insure rigidity. Provide temporary bracing as required during construction. Provide all other plates, Teco bangers, bolts, frames, anchors, etc., as required.
a) Headers and Similar Structural Members: Shall be construction grade (f=1500 psi) with 25% standard grade (f=1200 psi) allowed, Douglas Fir, Western Hemlock or Southern Pine. Material shall have a moisture content of less than 19% at time of surfacing and shall be grade marked "Dry".
b) Studs and Miscellaneous Members: Shall be S4S Douglas Fir, Southern Pine, White Fir or approved equal, of nominal sizes shown, maximum moisture content 19% at time of grading.
c) Wood Grounds, Stripping and Blocking: Shall be provided accurately located and rigidly secured as required for receipt of all finished work requiring same.

9.5 Insulation: Full thick fiberglass insulation batts with foil back vapor barrier, stapled between all roof joists carrying clay tile roofing.

9.6 Caulking: Thoroughly caulk wherever shown on the drawings or necessary to insure weathertightness. Blind caulk wherever possible. Caulking in general shall be silicone, gun grade, as manufactured by General Electric. Color shall be brown or to best match adjoining materials, where exposed.
All caulking materials shall be installed in strict accordance with the manufacturer's specifications and recommendations.

9.7 Rough Hardware: This includes all bolts, nails, anchors, spikes, miscellaneous fasteners, as may be required. All rough hardware as defined herein is to be included in the base contract. Trim shall conceal hardware. Exposed exterior nails shall be galvanized.

9.8 Finish Hardware: Finish hardware shall be included as specified in the hardware schedule. Acceptable alternates would include Yale, Sargeant, Corbin or Russwin. All exterior doors shall be fully weatherstripped.

9.9 Cutting and Patching: This Contractor shall cut and patch as required for the installation of work of all trades and shall work in conjunction with these trades.

9.10 Temporary Doors and Enclosures: Cover all exterior openings with plywood, securely installed so as to discourage entry by unauthorized persons, during the course of construction. Exterior doors as may be selected by the Contractor shall be provided with hinged operating door and construction lock for use during the period of construction.
When weather conditions or status of finishing operations in buildings so require, provide temporary closure of window openings. Closure shall be of such type and material as may be necessary to protect interior from frost, rain, excessively drying wind or other climatic conditions which will be deleterious to building or its contents. Permanent closures of openings may be installed provided that these are protected at all times and left in perfect condition when building is completed.

9.11 Temporary Bracing: The Contractor shall provide and maintain temporary bracing as required for window framing, metal door buck, wood framing and similar work during the course of construction.

9.12 Metal Door Frames: As shown on the door schedule shall be 6-3/4" x 2" x 16 ga. steel frames as detailed on drawings. Frames shall have integral 5/8" stops and shall be factory painted with one prime coat of rust inhibitor paint. All frames shall be installed plumb and true.

9.13 Millwork: Shall include all exterior and interior woodwork and doors exposed to view in finished building, except lumberyard or specialty items.
All millwork shall conform to A.W.I. specifications and recommendations. The Contractor shall familiarize himself with the finish schedule.
a) Interior Wood Trim: Shall be of standard grade and approved and/or required, and shall be clear white pine or Ponderosa Pine.
b) Wood Doors: As listed in the door schedule, shall be as manufactured by Weyerhaeuser Company (Roddis Standard), or United States Plywood Corp., (Weldwood staved lumber core), and shall have a minimum guarantee of two years from date of installation.

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c) Wood Shelving: Shall be 1" nominal Pine or Spruce, clear, including Sapwood, to receive paint for shelves 11 1/2" wide or less; for shelving 12" wide, or wider to receive painted finish use 3/4" interior grade A-B Douglas Fir plywood with solid wood edge strips; laminate covered shelving shall be 3/4" interior grade plywood or particleboard with formica edges. Front Counter top and desk shall be covered with Wilsonart D58 VF Burot Orange.

9.14 Installation in General:
a) Finished work shall be erected plumb, true, square and in accordance with the drawings.
b) Finished work shall be blind nailed insofar as possible and surface nails shall be set. Work shall be securely nailed to studs, nailing blocks, grounds, furring strips etc.
c) Doors shall fit without binding.
d) Hardware for doors and windows shall fit so that they will close without forcing and so as to prevent any rattle. Hardware cuts shall be true and neat.
e) Where woodwork is required to be attached or connected directly to masonry and other hard surfaces, secure same with screws or expansion bolts and plugs or shields in a manner to provide a rigid, permanent and neat support.
f) Countersink screws and bolts and putty up holes where same are exposed.

9.15 Protection of Finished Work: This Contractor shall take adequate precautions to protect finished work, particularly woodwork and finish hardware, during the course of construction.

9.16 Refitting and Guarantee: After the building is completed this Contractor shall examine all doors and other movable parts and shall put them in perfect operating condition and shall so maintain them for a period of twelve months after acceptance of the work. The Contractor shall furnish a written guarantee, warranting all work against defects in workmanship and materials for one year after acceptance.

9.17 Rubbish and Cleaning Up: Upon completion of the various portions of the work the Contractor shall remove from the premises, or as may be directed by the Architects, unused materials, rubbish and other debris resulting from the execution of the contract.

9.18 Installation of Miscellaneous Equipment Supplied by Owner: General Contractor is responsible for assembly and installation of all Owner's equipment that has been noted on drawings.

SECTION 10 - PAINTING

10.1 General Statement: The General Conditions and the Supplementary General Conditions of this specification apply herewith.

10.2 Scope: Include all labor, materials and other equipment necessary for the completion of all painting and finishing work required by the drawings and as specified herein. All exposed surfaces occurring in finished spaces and on the exterior of the building shall be finished as a part of this contract, whether specifically noted or not.

Examine specifications and drawings for the work to be performed by the other trades and so as to be thoroughly familiar with areas and items requiring finishing.

This Contractor shall be responsible for inspecting the work of others prior to beginning any work under this contract and any surface which cannot be put in proper condition for finishing by customary cleaning, sanding and puttying operations shall be immediately reported to the Owner in writing, or this Contractor shall assume responsibility for and rectify any unsatisfactory finish resulting therefrom.

10.3 Cooperation: The painting shall be performed as soon as the various surfaces are ready and as rapidly as is consistent with good work. This Contractor shall cooperate at all times with the Contractors furnishing other work in the building.

10.4 Storage of Materials: The Painting Contractor shall arrange with the General Contractor to set aside room or space to be used for storage and mixing of paints and nothing else. Such storage place shall be kept neat and clean and all damage thereto or to its surroundings shall be made good by the Painting Contractor. All soiled or used rags, waste and trash must be removed from the building every night, and every precaution taken to avoid fire.

10.5 Materials:
a) Unless otherwise approved, materials shall be of the proper type as produced by one of the following manufacturers: Pratt & Lambert, Inc., Detroit Graphite Company, Rustoleum Corp., Martin-Senour, Devoe & Raynolds Company, Inc., Benjamin Moore & Co., O'Brien, United States Gypsum Company, Sherwin Williams, or Dutch Boy.

Above materials shall be delivered in original, unbroken containers; other materials such as linseed oil, shellac, turpentine, etc., shall be pure and of the highest quality and shall bear identifying labels on their containers. Colors shall be as shown and the Contractor shall supply samples of colors to the Owner if requested.
b) Materials used shall be exactly as specified in brand and quality; no claim as to the unsuitability or unavailability of any material specified, or to unwillingness to use same, or of inability to produce first-class work with same, will be entertained unless such claims are made in writing and submitted with the bid.

10.6 Mixing: Prepared materials shall be applied in the consistency manufactured and shall not be thinned or adulterated. Paint shall be mixed on the premises in tight receptacles which shall be clean and of ample capacity. Floors, walls and other permanent parts of the building shall be protected from spattering, dropping, and staining from paint, oil, etc.

Paints shall be tinted as recommended by the manufacturer. Turpentine or Japan Drier shall not be used to hasten drying unless permitted by the Owner.

10.7 Workmanship:
a) Workmanship shall be the very best; only skilled mechanics of experience and known ability shall be employed.
b) Finished materials shall be applied only to clean, warm, dry surfaces that have been properly prepared for finishing by this Contractor and, where necessary, rust, grease, excess mortar, etc., has been removed by wire-brushing or washing with an acceptable solvent. Care shall be taken to avoid painting surfaces while they are exposed to hot sun or if they shall be exposed to freezing conditions before the paint has had ample time to dry.
c) All galvanized steel surfaces shall be pre-treated with proprietary acid-bound resinous or crystalline zinc phosphate preparations, used according to manufacturer direction prior to painting.
d) All finish woodwork and millwork shall be sanded prior to the first coat and after every coat thereafter. Nail holes, cracks, and other defects shall be puttied flush with adjoining surface with putty of a color to match that of the finish after the first coat.

e) All materials shall be applied under adequate illumination, evenly spread and smoothly flowed on without runs or sags so as to provide an even, smooth, uniform surface.
f) Tops, bottoms and edges of doors shall be finished the same as the balance of the door after they are fitted by the carpenter.
g) This Contractor shall protect his work at all times and shall also protect all adjacent work and materials by suitable covering or other methods in the progress of his work. Upon completion of his work he shall remove all paint and varnish spots from floors, glass and other surfaces. He shall remove from the premises all rubbish, debris and other accumulated materials of whatever nature caused by his work, and shall leave his part of the work in a clean, orderly and acceptable condition.

10.8 Exterior Painting:
a) All surfaces shall receive two coats of paint unless otherwise noted.
b) Metalwork: Rear doors, drain pipes, and posts - Sand #171-32 Dutch Boy Premium Latex Low Sheen Enamel.
c) Exposed Wood: Rafter tails, soffits, bell yoke, and outriggers - Rusty Brown #175-39 Dutch Boy Exterior Latex Stain.
d) Wrought Iron: Outrigger lanterns, post lamps - Black High Gloss Enamel.
e) Bell: Fiberglass bell - Gold #109-43 Dutch Boy Premium Dry Swift Enamel.
f) Wooden Tumbling Blocks: All lettering shall be: Tulip Yellow #2840 Dau's Styletone Paints.
g) Wooden Tumbling Blocks Background:
#107-88 Dutch Boy Premium Enamel, Chinese Red - T in Taco and B in Bell.
#107-88 Dutch Boy Premium Enamel, Garden Green - A in Taco and E in Bell.
#107-54 Dutch Boy Premium Enamel, Bright Orange - C in Taco and First L in Bell.
#107-76 Dutch Boy Premium Enamel, Royal Blue - O in Taco and Second L in Bell.
h) Pole Sign: Pole sign shall be: Canary Yellow.
i) Metal Trash Barrels: Barrel shall be Tulip Yellow #2840 Dau's Styletone Paint. Lid shall be Orange #2740 Dau's Styletone Paint.
j) Exterior Dining Areas: Curbing and patios - Tile Red #103-52 Dutch Boy Premium Porch and Floor Enamel - To be bid as an alternate.
k) Parking Lot Light Standards and Bumper Poles - White #107-10 Dutch Boy Premium Enamel.

10.9 Interior Painting:
a) Interior Painting: Finish coating of drywalls and ceilings, and miscellaneous woodwork shall be painted two coats of paint as specified.

Defects in shop priming coats, spot prime in field and spot prime welds, rivets, spacers and bolts as required, shall be painted with ferrous metal and steel primer. Rust control A37-R17.

All exposed concrete block walls in kitchen and utility areas shall receive one coat of "Blockfill" and two coats of white semi-gloss enamel.
b) Walls and Trim: Walls, interior, doors, shelves, evaporative cooler vents, order boards, walk-in cooler (if touch up is required), and pipes - Dutch Boy High Gloss Diamond White Enamel.
c) Equipment (if touch up is required): Stove, fryer, ice machine - Light Grey #103-81 Dutch Boy Premium Porch and Floor Enamel.

10.10 Exterior Waterproofing: All exposed exterior slump block shall be sprayed with two (2) coats of CLEAR-LIFE FILM water repellent. CLEAR-LIFE shall be applied by a low pressure spray unit, flooding the surface to the point of maximum absorption as indicated by a rundown of eight inches (8") to twelve inches (12").

SECTION 11 - GLASS AND GLAZING

11.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are a part of this contract.

11.2 Scope: Aluminum entrance doors, frames, transoms, sidelights, trim mouldings, and other related items shall be as detailed drawings and as manufactured by "Architectural Products Division", Terrell, Texas - a division of Howmet Corporation.

11.3 Material: Door members shall be extruded architectural aluminum alloy 6063-T5. Wall thickness of all door sections, except glazing beads, shall be .125" minimum. Wall thickness of frame members, except glazing beads, and glazing pockets, shall be .125" minimum. Screws, nuts, washers, bolts, rivets, and other fastening devices shall be aluminum, stainless steel, or other non-corrosive materials.

11.4 Hardcoat Finishes: All exposed aluminum surfaces shall be given an anodic coating of not less than .0007" thick Kalcolor Amber.

11.5 Door and Frame Construction: Door stiles and rails shall be tubular sections accurately joined at corners with heavy concealed reinforcement brackets secured with bolts and screws, and shall be MIG welded. Doors shall have snap-in stops with bulb glazing vinyl both sides of glass for puttyless glazing. No exposed screws shall be permitted. Each door leaf shall be equipped with an adjusting mechanism located in the top rail near the lock stile which provides for minor clearance adjustments after installation. A hard-backed poly-pile weatherstrip shall be installed in the hinge stiles of pairs or single center hung doors. The lock stile of a single center hung door, or center hung doors shall have an adjustable astragal weatherstrip. Frames shall be accurately joined at corners with unexposed screws in extruded splines, which are an integral part of all horizontal members.

11.6 Standard Hardware: Single acting doors shall have Adams-Rite Maximum Security Deadlock, PH-1 Pull Handle and PB-1 Push Bar. Single acting doors requiring overhead surface mounted closers shall be furnished with Top and Bottom Offset Pivots.

11.7 Arched Window Frames: Window Frames shall be of 3/16" x 1-3/4" aluminum bar stock accurately formed to the radius as shown on the drawings. The frames shall be jig formed and delivered to the job site suitably braced and protected for installation and glazing. Glass shall be installed with vinyl glazing beads and 1/2" x 5/8" aluminum applied stops both sides of glass.

11.8 Aluminum Cover Plates: Provide .080 sheet aluminum cover plates over all wood columns, mullions, and storefront as shown on the drawings. All exposed surfaces shall be given an anodic coating of not less than .001" thick Kalcolor Amber.

11.9 Erection: All openings shall be prepared plumb and square by others and shall be of sufficient size to provide 1/4" clearance at jambs and head (and sill as required) of frames. Installation, glass and glazing shall be performed by experienced technicians, according to the manufacturers recommended procedures. All units shall be securely anchored and ready for operation. All frames shall be set against 1" diameter neoprene rope and caulked with bronze silicone caulk as detailed.

11.10 Cleaning: Upon completion of construction the General Contractor shall be responsible for cleaning all aluminum, employing methods recommended by the manufacturer as follows: Aluminum shall be cleaned with plain water containing a mild detergent, or a petroleum product such as white gasoline, kerosene or distillate. No abrasive agent shall be used.

SECTION 12 - QUARRY TILE/CERAMIC TILE

12.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are a part of this contract.

12.2 Scope: The Contractor for the tile work shall furnish all labor, materials, tools and equipment, deliver, install, and finish all ceramic tile work. Refer to the drawings and finish schedule for areas requiring quarry tile.

12.3 Materials: All quarry tile shall be 8" x 8" x 1/2" standard grade V-Bak quarry tile, around four sides after firing as manufactured by the American Olean Tile Company, Lewisport, Kentucky. Tile shall conform to ANSIA-137, 1-1967 and Federal Specification SS-T-308c. Base shall be 4" x 8" x 1/2". All base shall be coved to match tile.

12.4 Color: All quarry tile and base shall be as indicated on the architectural drawings.

12.5 Applications: Mix mortar as per manufacturer's directions. Cover evenly with no bare spots. Comb mortar with notched trowel within ten minutes of applying tile. Grout when tile is firmly set - no less than 24 hours. Cure grout by keeping damp for at least 72 hours. Acid-and Alkali-Resistant Grout Tile Council of America, Inc., formula AAR-11, acid-and alkali-resistant grout shall be used. Color shall be black.

The mixed or thin set mortar shall be Tile Council of America, Inc., formula F-3. To dry set mortar and latex mortar and cement grout, use white #47 American Olean set in strictest compliance with manufacturer's specifications and recommended installation procedure. Tile joints shall be grouted with ceramic grout, color: white. Grout joints shall be moist cured. See drawings for color. (Base to be quarry tile).

12.7 Workmanship: All ceramic and quarry tile to be installed conforming to American National Standards Institute specification A108.3. Mixing data. The mixing data is on a volume basis.

SECTION 13 - ROOFING AND METAL FLASHING

13.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are a part of this specification.

13.2 Scope: This contract shall include all necessary labor, materials, services, equipment, transportation, taxes, etc., as required for the completion of all sheet metal work, roofing and their installation as shown on the drawings and specified herein. Sheet metal work shall consist of flashing, counter-flashing, gravel stops and pitch pans as required by the drawings.

13.3 Workmanship: All work shall be performed in a cooperative manner by the trades concerned with this section so as to assure a weathertight roofing membrane. All workmanship shall be in accordance with the best trade practices and shall comply with the manufacturer's recommendations.

13.4 Materials and Methods:
a) Flashing: Shall be galvanized sheet metal (minimum 24 ga.) or other material as shown. Details shall allow for expansion and assure weather-tightness. Solder all corners of galvanized flashing.
b) Mission Tile Roof:
1. Tile: Lawler-Celadon
a. Fillings: Short course, top fixtures, eave closures (bird stops) 3/4" with cover for rake, 8" boosters.
2. Nails:
a. Non-corrosive (preferably copper) 11 gauge, large head, length to give proper penetration. On plywood, use ring type nail, point should just penetrate underside of deck. On boards, use sinkers nail of at least 1 1/2" but to not penetrate underside of deck.
3. Felt: 43# per square asphalt impregnated roofing felt.
4. Cement & Mastic:
a. Mortar
b. Mastic - ASPHALTIC-non-running heavy body plastic cement composed of asbestos fibers, asphalt and other mineral ingredients. Sealant - Silicone ASTM-C-1002 or ASTM-E-42.
5. Wood Strips: Provide 1 x 4 in. strips under cover tile and 1" stringers of necessary height under hip roll and Ridges (height varies with roof pitch).
c) Installation:
1. Lay felt parallel to eave, lap 2 inches horizontally and 6" vertically. Back on 6" Centers.
2. Work from right to left. Lay tiles to straight lines, gauge and right angles to eave, layed 3". Fasten each tile with proper nail, using 1, 2, or 3 nails as required in each tile or fitting.
3. Center eave tiles on field tiles and fasten with nails.

13.5 MIXING & AVAILABILITY: THE ROOFING CONTRACTOR SHALL OBTAIN PRICING FOR ACCEPTED TAPE BELT ROOFING PACKAGE FROM LUDOWICI CELADON 201 N. TALMAN CHICAGO, ILL 60612 312/722-7700

d) Vapor Barrier: Shall consist of one layer of 15# asphalt saturated felt uniformly mopped to the deck with a minimum of 25 lbs of asphalt per square. This felt shall be turned up, but not cemented to, all vertical surfaces to a height of 6" and shall overhang all roof edges a similar amount.

e) Flat Roofing: Shall be Johns-Manville Company spec. #601, or Bird spec. C-3-MP gravel surface built-up roof, or approved equal. All roofing materials shall be installed with the strictest adherence to the manufacturer's specifications. Prior to installation of the built-up roof, this Contractor shall inspect the area with which his work shall be concerned and shall report any conditions which he feels will be detrimental to the finish product to the Owner immediately. The laying of any material by this Contractor shall be considered as an indication of the acceptance of the base by him, both horizontal and vertical.

The base roofing ply shall extend a minimum of 18" beyond edges of roofing as shown; succeeding roofing plys shall be installed and the base ply turned back and mopped into place enveloping other plys. Metal flashings, etc., shall be "stripped in" with two plys of 30 pound felt, minimum 10" wide, mopped in place.

f) Flat Roofing (Continued):
This Contractor shall take particular care to protect finished work and materials during his work to prevent any damage to same, particularly as may be caused by hot asphalt. Should asphalt drip or be spattered on other work, this Contractor shall restore the damaged areas to their original condition.
g) Cleaning Up: During his work this Contractor shall pile all debris, papers, etc., created by his work. Upon completion he shall remove any excess materials or debris created by his work.

13.5 Guarantee: This Contractor shall guarantee in writing, unconditionally, for a period of two (2) years from the date of acceptance of the work, all roofing and flashing to be watertight and free from leaks.

SECTION P - PLUMBING

P.1 General Conditions: The General Conditions and the Supplementary General Conditions chapters of the specifications shall apply herewith.

P.2 Scope: Contractor shall furnish all labor, materials and equipment necessary for a complete and operable installation of water, sanitary and storm sewer systems, including waste and vent piping, water service, meter, tap, valves and boxes, cold water piping, hot water piping, all gas piping, water heater, plumbing fixtures and fittings, and all related controls, fittings and appurtenances; connecting of all equipment provided by the Owner and all other work as required by the drawings and specifications. Should special engineering drawings be required to complete connections, with city utilities, their cost shall be included as part of this contract, as well as all work included by them.

Plumbing Contractor is cautioned to pay strict attention to drawings and specifications for connecting equipment provided by the Owner, and shall include all materials and labor for this work. Furnish and install all necessary fittings and materials as required to comply with local codes and job conditions.

This contract shall include all required utility trenching as well as sand backfilling of same for work covered herein.

P.3 Permits and Inspections:
a) All work shall be installed in strict accordance with State, County and Municipal Ordinances and Regulations. The Contractor shall report any discrepancies between the drawings and any governing ordinances and regulations to the Owner at the time of bidding. Upon submitting his bid, the Contractor shall be held responsible for all costs incurred for providing additional work required due to local ordinances and regulations.
b) All permits and fees shall be applied and paid for by this Contractor, including all required inspections for water, gas and sanitary and storm drainage systems including required meters, taps to mains and connections to sewers.

In areas where sewers are not available the General Contractor will be furnished a set of sewage disposal drawings prepared by Owners engineers. All costs for permits, installations and inspection of system shall be included in Plumbing Contractor bid. All work shall be in conformance with local codes.
c) Dimensions for all under-slab piping are critical for later equipment installation. Contractor is therefore cautioned to pay particular attention to Sheet P-1 of the drawings and cross reference all drawings in his work including the elevations showing dimensional location of all work.

d) Tests: This Contractor shall run tests on all supply and waste piping prior to concealment or burial in concrete slabs, walls, etc. Waste piping is to be tested by capping or plugging all lower openings and filling entire system to the top of the vents with water and this allowed to remain for at least 30 minutes. Water piping shall be tested by means of maintaining 75 psi of air pressure within the entire system for a period of not less than 15 minutes. The Owner shall be supplied with the results of all tests in writing.

P.4 Materials:
a) Water Supply Piping: Water piping above grade shall be type "L" hard copper tubing; below grade shall be type "K" soft copper. Solder shall be 95-5 type. No alternates to above will be permitted.

Piping shall be of minimum sizes indicated on the drawings; however, mains shall generally by 3/4" with 1/2" or 3/8" branch piping to fixtures and equipment, or in accordance with local codes. Standard air chambers, 20 times pipe diameter in length and one size larger in diameter, shall be provided at all fixtures and as required elsewhere in accordance with good practice. Exposed piping in finished rooms shall be chrome plated brass piping of iron pipe size.

All hot water lines and all lines in unheated spaces shall be insulated with 1/2" thick B.F. Goodrich or U.S. Rubber flexible insulation tubing. All piping passing through concrete shall be wrapped with plastic tape. No joints in water piping will be permitted below slab.
b) Water Service shall be complete with meter; trenching and backfilling for service are by this Contractor.
c) Underground sewers within the building and to a point 5'0" outside of the building shall be extra heavy B & S cast iron pipe, asphalt coated, with caulked oakum and lead joints or neoprene compression gasket joints. Pitch of sewer shall be approximately 1/8" per foot, minimum, and shall be made with Y's and one-eigth bends. Cleanouts shall be installed at locations and shall be brass screw type; in finished rooms cleanouts shall be flush type chrome plated brass.
d) Underground sanitary and storm sewers 5'0" outside of building shall be vitrified clay sewer pipe with Amvit joints (or as required by local codes), extra heavy strength under paved areas. Size shall be as per local code but in no instance shall size be less than 6". Trenching and backfilling shall be by this Contractor and shall be sand or granular fill.
e) Storm Drainage shall be per local conditions and site requirements. Yard, curb and gutter drains, if shown on the Owner's plot plan or required by law, shall be properly installed and connected by this Contractor. Roof drainage shall spill on grade unless locally required to be tied to the storm sewer, in which case this Contractor shall complete installation.
f) Grease trap shall be ~~West Bend No. 1-B Size 9-3, 20 gallon per minute grease interceptor installed with cover flush with finished floor.~~ If local codes require size other than unit specified this Contractor shall include properly sized unit at no additional cost, and shall notify the Architect that a change in size has been made. The Contractor shall also supply the operator with two packages of Waste Bio-Mix Compound. SHALL BE A 1000 GAL. GREASE TRAP
g) Floor drains, where shown, shall be Josam, Zurn, Wade or Jay R. Smith, Inc. Strainer and other exposed parts shall be polished brass.

REGISTERED PROFESSIONAL ENGINEER MICHAEL J. MADDS No. 24880 CIVIL STATE OF CALIFORNIA

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79-613

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h) Waste and vent piping shall be type DWV copper with casts sweated fittings or galvanized pipe with "Surham" threaded fittings. All vertical stacks shall be firmly supported at their base. Vents shall be increased at the roof a minimum of one pipe diameter larger (however, in no case less than 3"), and shall extend at least one foot above the finished roof surface. Vents shall be flashed with 6# sheet lead flashing rolled down inside the vent and having at least an 18" x 18" flashing base. Flashing shall be custom made to neatly fit the pitch of the roof without bending or further modification on the job. Base shall be flashed in between the 30# roofing felt and the built up roof in such a manner as to assure a weather-tight condition. Copper vent flashing may be used in lieu of lead subject to the same installation conditions.
i) Pot sink an kitchen equipment: Pot sink, and kitchen equipment in stainless steel shall be supplied to the Contractor by the Owner's equipment company and this Contractor shall plumb same. The Plumbing Contractor shall supply all necessary trim and fittings, including faucets, traps, stops, etc. Faucets for pot sinks shall be T & S #B-221 with 12" swing spout: 8" centerset, ledge mounted. Service sink and hand sinks to be supplied and installed by Plumbing Contractor.
j) Fixtures: Provide and install fixtures and fittings as indicated on the drawings. Crane, Kohler and Eljer of comparable quality shall be considered as equals.
k) Sill Cocks: Furnish and install where shown on the drawings Woodford sill cocks. All sill cocks to be 3/4" brass finish and an anti-freezing type. Sill cocks to have brass body compression valves.

P.5 Water Heater: Shall be Ruud GL 100-75-5, 100 gallon capacity water heater. Unit shall be complete with temperature and pressure relief valve piped to floor, drain cock and all controls. A.O. Smith, Day and Night, or Rheem, with glass lined tank, shall be considered approved equals when of comparable storage capacity and recovery capacity.

P.6 Water Conditioning Equipment: Provide and install all necessary piping, tees, shutoffs, etc., as normally would be required for the installation of filtering and conditioning equipment(to be provided and installed by others) as part of this Contract.

SECTION H - HEATING, VENTILATING AND AIR CONDITIONING

H.1 General Conditions: The General Conditions and the Supplementary General Conditions chapters of this specification shall apply herewith.

H.2 Scope: This Contract shall include all necessary labor, materials, equipment, transportation, licenses, fees, permits, bonds and taxes required for a complete and operable installation of heating, ventilating and air conditioning systems. All work shall be installed in strict accordance with State, County and Municipal ordinances and regulations. The Contractor shall report any discrepancies between the drawings and any governing ordinances and regulations to the Owner at the time of bidding. Upon submitting his bid, the Contractor shall be held responsible for all costs incured for providing additional work required due to local ordinances and regulations.

H.3 Materials and Methods: Materials and methods as listed here are for the purpose of providing general information. It shall remain the responsbility of the supplying Contractor to assure that all equipment meets local requirements in respect to design and safety features.
a) Furnace and Air Conditioning Equipment: Shall be [illegible], Lennox or [illegible] the size, type, and capacity with controls as indicated. Units shall be complete with thermostat fan control, high and low limit controls and all necessary safety controls and control wiring.
b) Ductwork: Is 26 ga. minimum galvanized sheet metal, insulated with 1" fiberglass duct insulation with integral type vapor barrier, and is to be fabricated in accordance with A.S.H.V.E. recommendations. Ductwork is to be securely fastened to building framing components. Duct sizes shown indicate free area.
c) Exhaust Fans: Acme, Ilg, Greenheck or approved equal, complete with prefabricated curbs, bird screens, dampers, disconnect switches and other appurtenances as indicated in the fan schedule.
d) Registers, Grilles, Diffusers and Louvers: Shall be as manufactured by Titus, Krueger, or equal, curved blade type, aluminum of type, capacity and size shown on the drawings. All registers and diffusers shall be furnished with opposed blade volume control dampers.
e) Motor Starters and Electrical Characteristics: This Contractor shall furnish manual disconnect switches with thermal overload protection and pilot lites for all motors under 1/2 HP, and magnetic starters with three leg protection and pilot lights for all motors 1/2 HP and over. These disconnect switches and starters shall be furnished to the Electrical Contractor who will install them.

Heating Contractor shall verify with the Electrical Contractor the voltage and phase of service to the building.

H.4 Workmanship: Workmanship shall be only of the very best, in accordance with best trade practices. All ductwork shall be fabricated in accordance with the A.S.H.V.E. specification and SMAGNA standards and shall be neatly and securely fit into the building construction. All joints and connections shall be neat and shall be tight, and entire installation shall be securely attached to building construction.

This Contractor shall cooperate with other trades, particularly those having work affected by his work, in order to expedite the project and produce a neat finished product.

The Contractor shall do all cutting and chipping, drilling (except where otherwise noted) as may be required for the installation of his work, shall pay the cost of repair of damages due to cutting or other work not authorized by the Architect. The cost of such damage will be deducted from the amount due to the Contractor in this contract.

Upon completion of the installation the Contractor shall balance and adjust the entire system to assure proper operation and operation within the range of local geographical design standards. Provide the store operator with complete written instructions regarding proper maintenance and operation of the entire system.

H.5 Guarantees: Provide a written unconditional one-year GUARANTEE against defects in workmanship and material to start at the date of acceptance of the work. Additional four-year factory WARRANTY on motor-compressor assemblies shall be provided also.

SECTION E - ELECTRICAL

E.1 General Conditions: The General Conditions and the Supplementary General Conditions chapters of the specifications shall apply herewith.

E.2 Scope: This contract includes all necessary labor, materials, equipment, transportation, taxes, etc., to complete the installation of all electrical lighting and power wiring as shown on the drawings and as may be specified herein, including complete service installation and electrical connection of equipment and lighting fixtures furnished by the Owner.

All work shall be installed in strict accordance with state, county and municipal ordinances and regulations. The Contractor shall report any discrepancies between the drawings and any governing ordinances and regulations to the Owner at the time of bidding. Upon submitting his bid, the Contractor shall be held responsible for all costs incurred for providing additional work required due to local ordinances and regulations.

E.3 Rules and Regulations: All apparatus and materials used and the manner of installation shall conform in all respects with the latest rules and requirements of the National Electrical Code, governing building codes and local governing utility company, anything in this specification or the drawings to the contrary notwithstanding.

E.4 Materials and Methods:
a) Cutting and Patching: This Contractor shall do all cutting and chipping, drilling (except where otherwise noted) as may be required for the installation of his work, shall pay the cost of repair or damages due to cutting or other work not authorized by the Architect. The cost of such damage will be deducted from the amount due the Contractor in this contract.
b) Conduit: Shall be "thinwall" electrical metallic tubing throughout except for conduits over 2" in diameter and all conduit buried under or within the concrete floor slab which shall be rigid steel pipe conduit with threaded connections. Fiber duct, if used, shall be "Orangeburg" encased in concrete. All metal conduit shall be as manufactured by National Electric Products, Youngstown Steel or Republic Steel Corporation. All conduit on roof shall be rigid steel pipe, galvanized inside and out.
c) Wire and Cable: Shall be copper type THW or THWN for sizes #8 AWG and smaller and RHW for sizes #6 AWG and larger. Wire and cable shall be as manufactured by Anaconda Wire and Cable, General Cable, General Electric, or Simplex Wire and Cable. Minimum wire size shall be #12 AWG except for 24 volt wiring which shall be per equipment supplier's specifications. #8 AWG wire and larger shall be stranded.

All conduit shall be swabbed thoroughly before pulling any wires. All wires for a circuit shall be in the same conduit, and shall be continuous without splices except in outlets or junction boxes. Solderless connectors shall be used wherever possible and shall be Thomas & Betts "Lock-ITT" for #8 AWG conductors and larger and uninsulated 3M "Scotchlok" spring connectors for #10 AWG conductors and smaller.
d) Outlet boxes, junction boxes, pull boxes, etc.: Shall be code gauge galvanized steel of required size and shall be furnished with covers, plaster rings, etc., as required. All boxes shall be securely fastened, and mounted plumb and true, ready to receive finish materials.
e) Wiring devices, switches and receptacles, etc.: Shall be specification grade manufactured by Harvey Hubbell, Pass & Seymour or equal. Switches shall be Hubbell 1201-I (15 amp) or 1221-I (20 amp); convenience receptacles shall be Hubbell #5462-I (15A-250V) or #5362-I (20A-125V). All outlets shall be properly grounded; all plates shall be brushed stainless steel.
f) Panels and Switches: Shall be Square D as shown on the drawings. Upon completion of his work this Contractor shall fully index and permanently label all circuits at the panels.
g) Service: Shall be 200 ampere, 120/240 or 120/208, 3 phase 4 wire underground electric service as shown on the plans. Contractor shall give alternate price for overhead service. Contractor shall verify type of service available and shall list same on his proposal. All services shall be bid complete.

Temporary service shall be installed by this Contractor for use during the period of construction. Such service shall be minimum 100 ampere, 120/240 volt, 3 wire service.
h) Sign and Parking Area Lighting: Shall be installed underground complete, including trenching, by this Contractor. Minimum one inch (1") rigid conduit, 4 dip galvanized and asphalt painted, shall be buried at least 2'0" below finish grade. Conduit shall be capped during construction to prevent entrance of foreign matter and shall be swabbed dry before pulling wires. Refer to Plot Plan and Sheet E-1. Contractor shall submit alternate quotation for direct burial cable in blacktop areas.
i) Equipment: As provided by the Owner shall be hooked up by this Contractor as required and shall include all required fittings, switches, fuses, etc. Flexible connections shall be Greenfield armored cable. This includes food preparation equipment, food heat lamps, etc.
j) Heating, Ventilating and Air Conditioning Power and Control Wiring: Shall be by this Contractor. Units are prewired at the factory and this Contractor shall supply power to units and hookup of same, wiring to the thermostats, control panels and installation and wiring of duct-stat in discharge air of make-up air unit (where required by code), interlock wiring to exhaust fans, power and control for exhaust fans.
k) Electrical Fixtures: Shall be furnished and installed by this Contractor as shown on the drawings. Fluorescent strip lights shall be equipped with top line, ETM-HPF certified ballasts.

PARKING LOT LIGHT, AND POLES AS MANUFACTURED BY McGRAW [illegible]

Hand dryers shall be wall mounted manufactured by World Dryer Company and shall be supplied and installed by General Contractor.

SECTION L - LANDSCAPE

L.1 General Conditions: The General Conditions and the Supplementary General Conditions chapters of the specifications shall apply herewith.

L.2 Scope: This contract includes all necessary labor, materials, equipment, transportation, taxes, etc., to complete the installation of all landscaping as shown on the site plan and as may be specified herein.

L.3 Materials: Materials as shown on the site plan and as listed here are for the purpose of providing general information. The supplying Contractor shall ascertain that plant materials are hardy under local climatic conditions.

If in the opinion of this Contractor these materials are unsuitable, he shall submit with the bid an alternate list of materials.

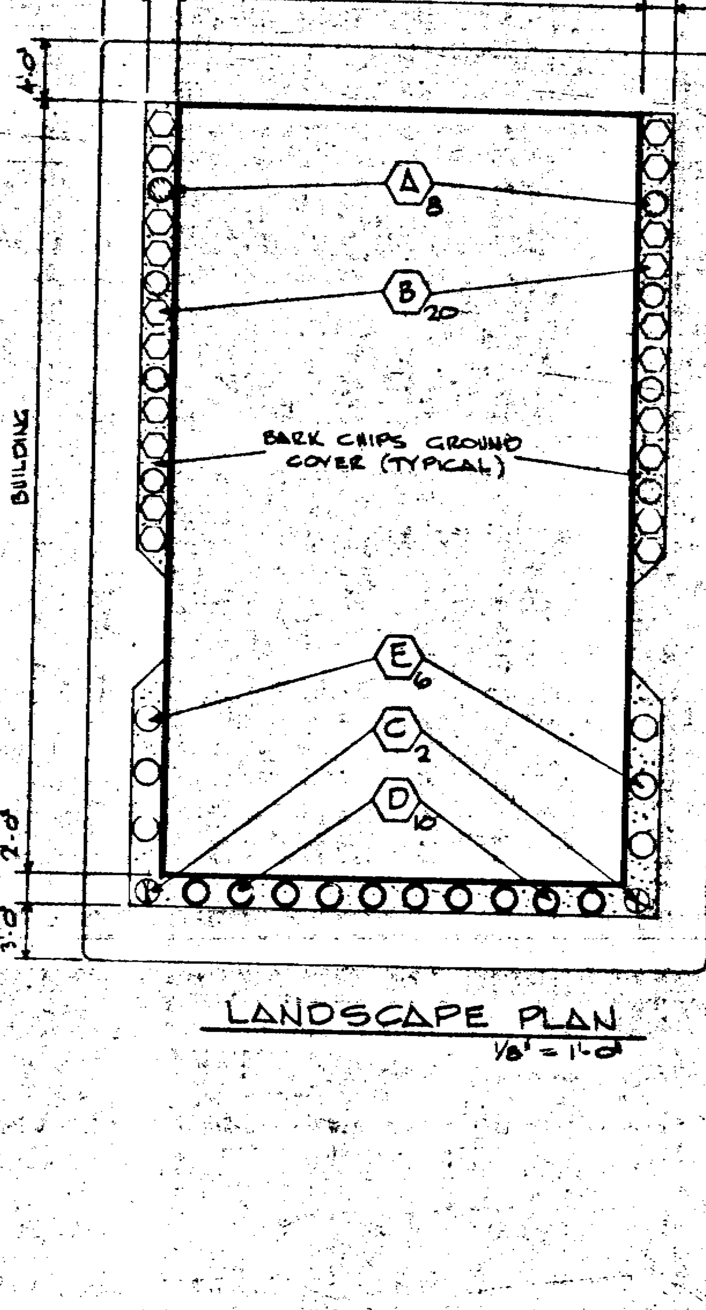
All plant material shall be of the best quality available and be delivered in a live growing condition. All shrubs shall be balled and burlapped.
a) Arbor Vitae: Mark (A) Arbor Vitae uprights 3'-0" to 4'-0" high planted size.
b) Yews: Mark (B) Intermediate Yew Japanese Yew, Taxus Cuspidata, 2'-0" planted size.
c) Upright Yews: Mark (C) upright Hicksi Yew, 2'-0" planted size.
d) Hedge: Mark (D) Hedge Euonymus Alatus Compactus 2'-0" planted size.
e) Hedge: Mark (E) Euonymus Patens, 18" to 24" planted size.
f) Ground Cover: All planting areas surrounding building shall be covered with 2" minimum of Redwood Bark Chips.

L.4 Workmanship: Workmanship shall be only of the very best, with materials placed in accordance with the best trade practices.

Upon completion of installation, this Contractor shall remove all unused and waste materials and shall leave paved areas adjacent to landscaping in a broom clean condition.

L.5 Maintenance and Guarantee: Shall maintain for a period of thirty (30) days all plant materials placed in this contract. At the end of this thirty (30) day period this Contractor shall remove and replace dead or dying plant materials at this Contractor's expense.

Provide the store operator with complete written instructions regarding care and maintenance of all plant materials.



LANDSCAPE PLAN
1/8" = 1'-0"

SECTION S - STUCCO

S.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are part of this contract.

S.2 Scope: This contract includes all necessary labor, materials, transportation, taxes, equipment, etc., as required to complete all stucco work as shown on the drawings or as specified herein.

S.3 Materials:
a) Stucco: Type IA or IIA Portland Cement ASTM C175 Air Entraining White.
b) Lime: Type S Hydrated Lime ASTM C206.
c) Aggregate: Clean, solid, well graded from fines to 1/8" (maximum) and free from deleterious matter per ASTM C144.
d) Lath: Diamold or Stucco mesh 34/sq. yd galvanized copper alloy steel with self-furring (minimum 1/4" space) reinforcing.
e) Accessories: Corner beads, soffit and foundation screeds, etc., to be minimum 26 ga. expansion joints to be type 15, gold bond, milcor or equal. Flashing to be as detailed minimum 26 ga. fasteners to be type NGC S-12 screws. All accessories to be galvanized.

S.4 Storage: All material shall be stored and handled so as to protect them from moisture, contamination or other damage.

S.5 Workmanship: All work shall be done in a neat uniform manner by skilled tradesmen.

Apply stucco only when temperature is above 50° F. and will be maintained throughout the setting period. Moist cure before next coat with fine water spray.

Apply metal lath over building paper with long direction across studs; Lap sides minimum 1/2" and ends minimum 1". Stagger end laps in succeeding courses.

Mix stucco proportions (by volume) as follows:
Scratch Coat
1 part Portland Cement
1/4 part lime
3 parts sand
Brown Coat
1 part Portland Cement
1/4 part lime
5 parts sand
Finish Coat
1 part White Portland cement
1 part lime
1 part silica sand

Scratch Coat: Apply evenly to uniform thickness 3/8". Squeeze through lath to backing to form mechanical key and embed mesh completely. Cross rake entire surface when stucco is firm but not dry. Moist cure 12 to 24 hours - total set 48 hours.
Brown Coat: Apply uniform and level to 3/8" thickness. Interrupt work only at screeds, control joints and corners. Lightly score surface. Moist cure 12 to 24 hours - Set 7 days.
Finish Coat: Dampen brown coat evenly prior to applying finish coat to obtain uniform suction. Trowel 1/8" thick in swirl pattern. Moist cure 12 to 24 hours.
Protect all finish work during plastering and repair all damage. Remove all debris and excess plaster from walks, planting or other surfaces. All stucco shall be guaranteed for two (2) years against popping, peeling, cracking or other defects.

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REGISTERED PROFESSIONAL ENGINEER MICHAEL J. MAJORS No. 24880 CIVIL STATE OF CALIFORNIA

JOB NUMBER	79-20
DATE	5-25-79
SHEET NUMBER	SP-4

79-615

16

Date 1-15-80 No.
RESTAURANT PLAN
APPROVED as submitted
as corrected X
ENVIRONMENTAL MANAGEMENT AGENCY
ENVIRONMENTAL HEALTH SERVICES
By Mary Brannon R.S.

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PAID
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Revision
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By
Date 12-31-79
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79-613

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REVISIONS
12-14-79

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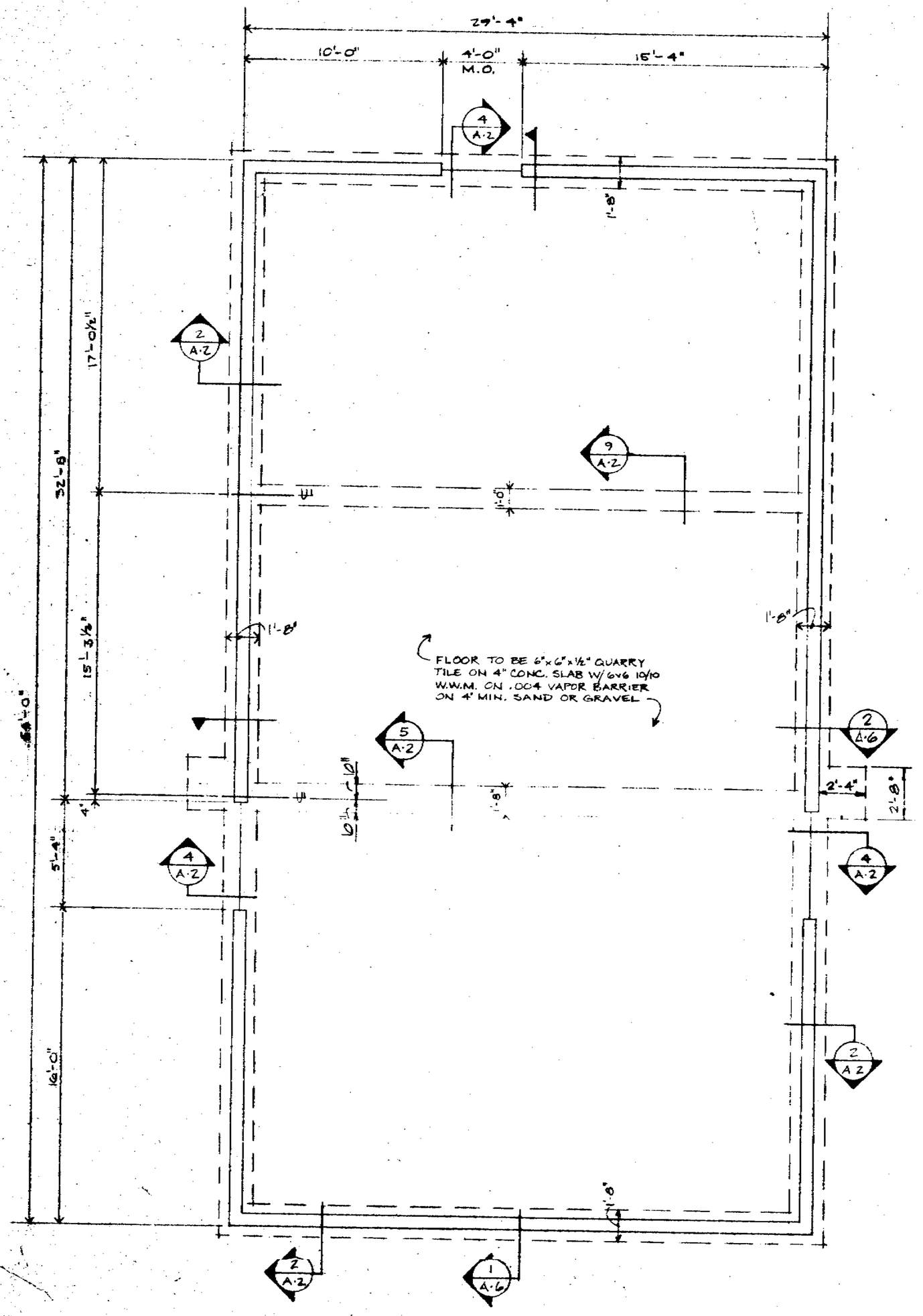
BUILDING TYPE
29·54 SJ

TACO BELL JOB NO

JOB NUMBER
79-20

DATE
5-25-79

SHEET NUMBER
A·1

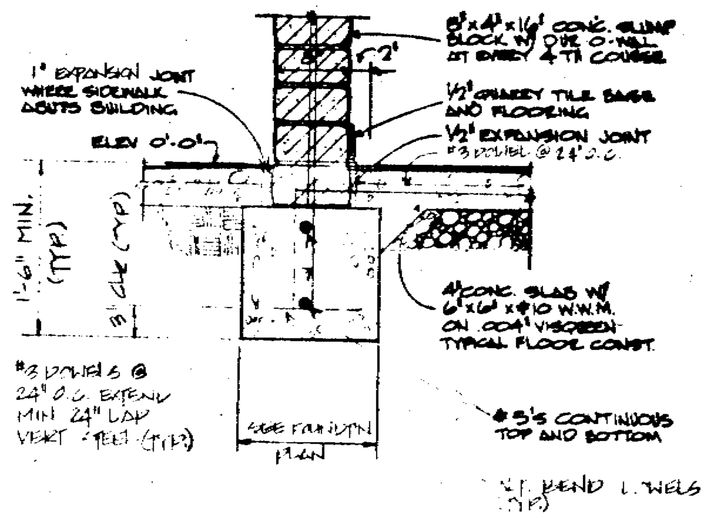


FOUNDATION PLAN (1/A-2)
SCALE: 1/4"=1'-0"

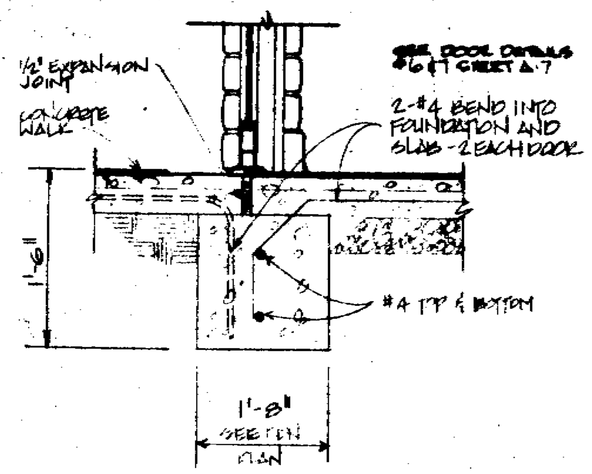
NOTE:

SEE SITE PLAN FOR LOCATION OF WALKS, CURBS, HANDICAP RAMPS, & OTHER MISC. SITE WORK.

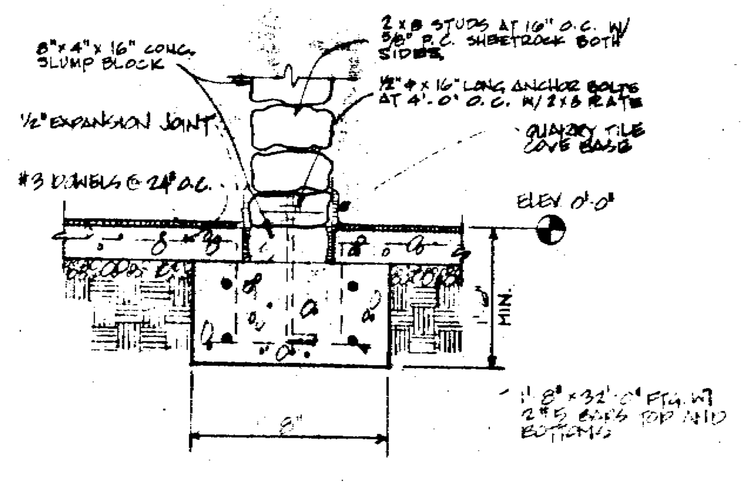
ALL FLOOR SLABS TO BE PROPERLY PITCHED TO FLOOR DRAINS.



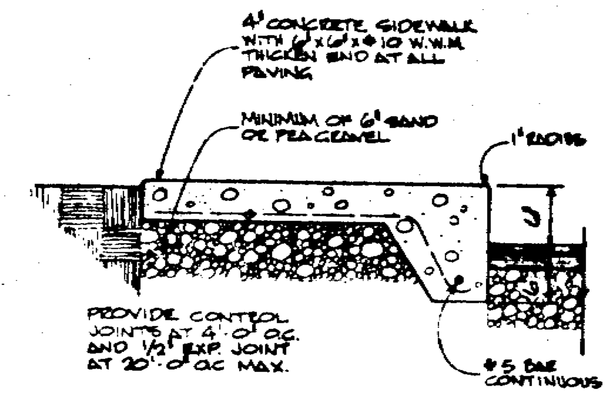
FOUNDATION AT WALL (2/A-2)
1"=1'-0"



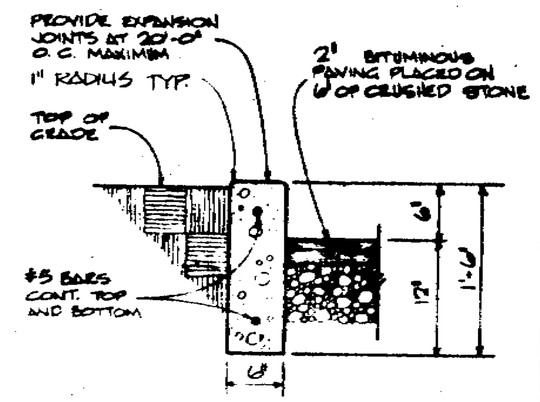
FOUNDATION AT DOORS (4/A-2)
1"=1'-0"



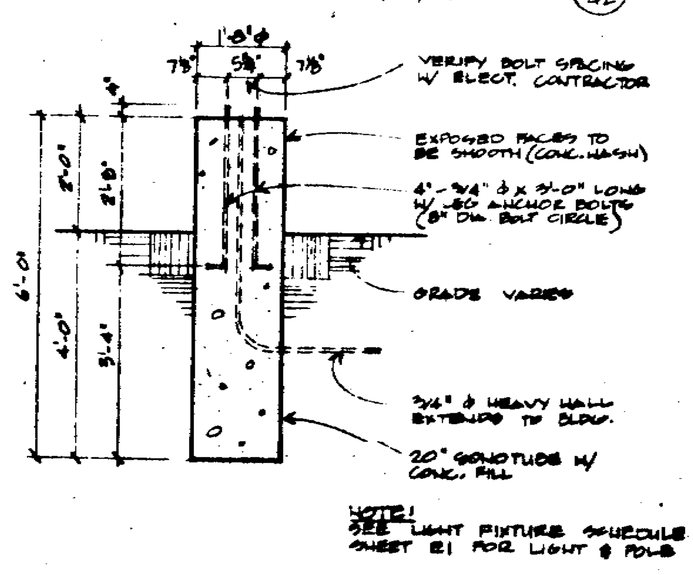
FOUNDATION @ DINING ROOM WALL (5/A-2)
1"=1'-0"



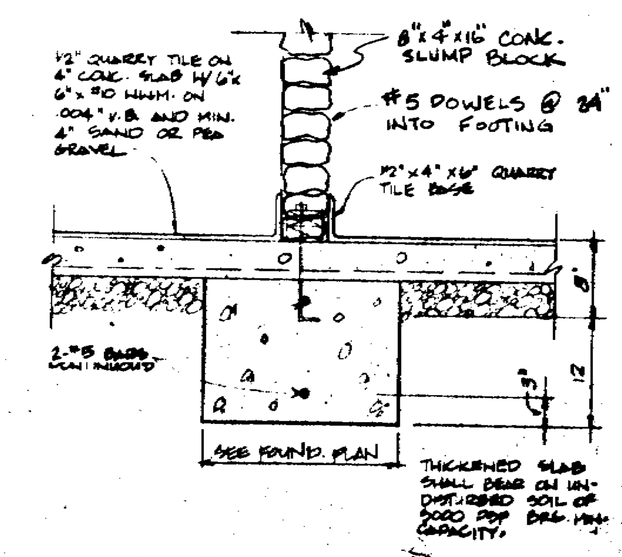
SIDEWALK DETAIL (6/A-2)
1"=1'-0"



CURB DETAIL (7/A-2)
1"=1'-0"



LIGHT POLE BASE (8/A-2)
SCALE 1/2"=1'-0"



THICKENED SLAB DETAIL (9/A-2)
1"=1'-0"

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REVISIONS
12-14-79

BUILDING TYPE
29·54·SJ

TACO BELL JOB NO

JOB NUMBER
79-20

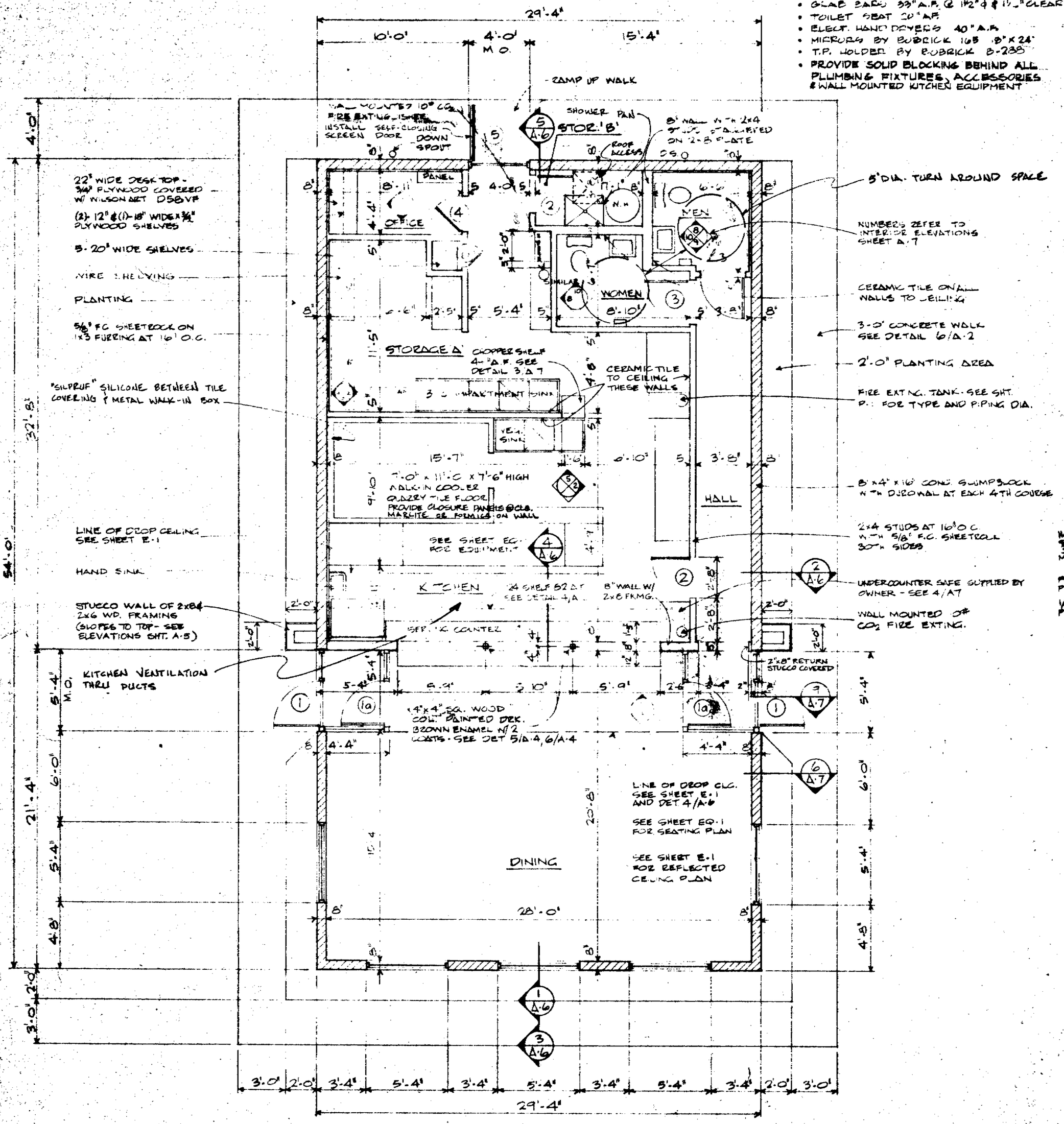
DATE
5-25-79

SHEET NUMBER
A-2

79-613

TOILET ROOM REQUIREMENTS

- GLAB BARS 33" A.F. @ 1½" & 4½" CLEAR.
- TOILET SEAT 20" A.F.
- ELECT. HAND DRYERS 40" A.F.
- MIRRORS BY BOBRICK 165 18" x 24"
- T.P. HOLDER BY BOBRICK B-238
- PROVIDE SOLID BLOCKING BEHIND ALL PLUMBING FIXTURES, ACCESSORIES & WALL MOUNTED KITCHEN EQUIPMENT



FLOOR PLAN 1/4" = 1'-0" (1/A-3)

- 5' DIA. TURN AROUND SPACE
- NUMBERS REFER TO INTERIOR ELEVATIONS SHEET A-7
- CERAMIC TILE ON ALL WALLS TO CEILING
- 3'-0" CONCRETE WALK SEE DETAIL 6/A-2
- 2'-0" PLANTING AREA
- FIRE EXTING. TANK - SEE SHT. P-1 FOR TYPE AND PIPING DIA.
- 8" x 4" x 16" CONC. SLUMPBLOCK W/ TRANSVERSAL AT EACH 4TH COURSE
- 2x4 STUDS AT 16" O.C. W/ 5/8" F.C. SHEETROCK BOTH SIDES
- UNDERCOUNTER SAFE SUPPLIED BY OWNER - SEE 4/A7
- WALL MOUNTED CO_2 FIRE EXTING.
- 2"x8" RETURN STUCCO COVERED

ROOM FINISH SCHEDULE

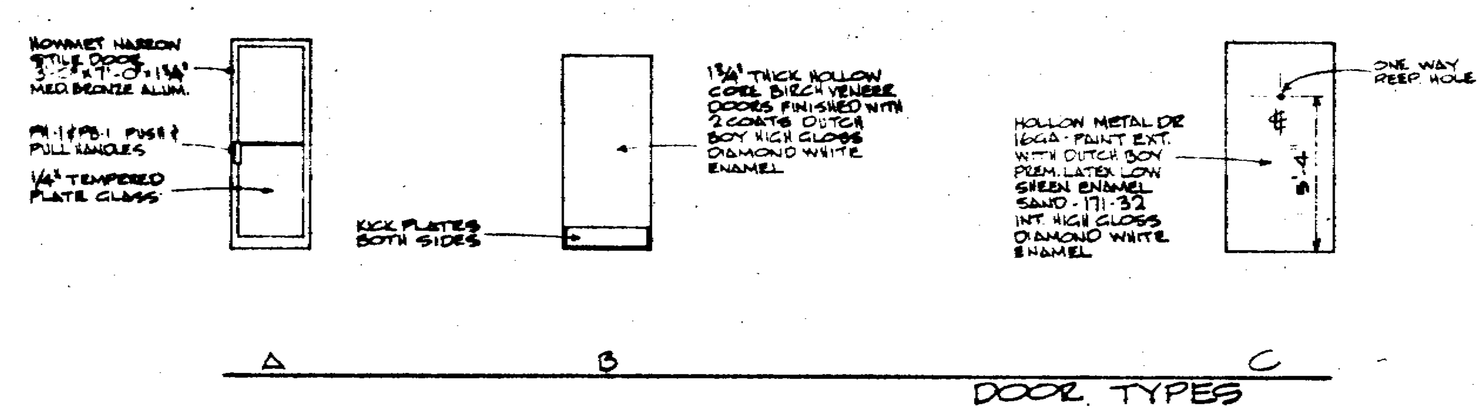
ROOM	FLOOR	BASE	WALLS	CEILING	HEIGHT	REMARKS
DINING ROOM	12"x12"x1/8" MURRAY EMBER FLASH	4"x6"x1/2" MURRAY EMB. FL. COVE	4"x8"x16" CONC. SLUMPBLOCK	1200 GLACIER ACT. 2x2 BGO WHT. GRID	8'-0" & 9'-0"	CHICAGO METALLIC CEILING GRID BGO WHITE - 1 HOUR RATED
KITCHEN	"	6"x6"x1/2" MURRAY EMBER FLASH COVE	4"x4"x1/2" AMER. OLEAN #47 BRIGHT WHITE	2A 4'x8' VINYL PANELS W/ STRIP IN HR. GRID	8'-0" & 9'-0"	BLACK CROSS ALL QUARRY TILE (TYP)
STORAGE 'A'	"	"	5/8" F.C. SHEETROCK & #47 BRIGHT WHITE	"	8'-0"	"
STORAGE 'B'	"	"	5/8" F.C. SHEETROCK PAINTED WHITE	"	"	
OFFICE	"	"	5/8" F.C. SHEETROCK PAINTED WHITE	"	"	
HALL	"	6"x4"x1/2" MURRAY EMBER FLASH COVE	"	"	"	
WOMEN'S TLT.	"	"	4"x4"x1/2" AMER. OLEAN #47 BRIGHT WHITE	"	"	
MEN'S TLT.	"	"	"	"	"	

NOTES
- ALL INTERIOR WALLS, DOORS, DOOR TRIM AND SHELVES TO BE PAINTED WITH TWO COATS OF DUTCH BOY HIGH GLOSS DIAMOND WHITE ENAM.
- ALL EXTERIOR FLASHING, TRIM, DOOR AND FRAME TO BE PAINTED WITH TWO COATS DUTCH BOY PREMIUM LATEX LOW SHEEN ENAMEL - SAND 171-32
- ALL EXTERIOR WOODWORK TO BE STAINED WITH TWO COATS DUTCH BOY EXTERIOR LATEX STAIN - RUSTY BROWN 175-39
- ALL EXTERIOR SLUMPBLOCK SHALL BE SPRAYED WITH TWO COATS DARACONE SILICONE WATER REPELLENT
- DINING RM. SHEETROCK PAINTED W/ 2 COATS DUTCH BOY FLAT LATEX TEXTURE PAINT W/ STIPPLED FINISH COLOR: PANTONE #468 C
- EXTERIOR STUCCO PAINTED W/ 2 COATS DUTCH BOY FLAT LATEX TEXTURE PAINT COLOR: PANTONE #468 C

DOOR SCHEDULE / HARDWARE SCHEDULE

MARK	SIZE	TYPE	FRAME	SIZE	BUTTS	LOCKS	CLOSERS	KICKPLATES
1	3'-0"x7'-0"x1 3/4"	A	ALUMINUM FRAME DETAIL 9/A-7	1 3/4" x 4"	1 PR. 4½"x4" BB NRP US 26D	ADAMS - ELITE MS + 1890	LCN 1054 KPD MED BRONZE	NONE
2	2'-8"x6'-8"x1 3/4"	B	CECO DWS 3A-16GA. DETAIL 2/A-7	2" x 5 3/4"	1½ PR. 4½"x4½" McKINNEY TA2731	SCHLAGE A51PD PLY 626	NONE	BROOKLINE BLACK PLASTIC 30"x8"
3	3'-0"x6'-8"x1 3/4"	B	CECO DWS 3A-16GA. DETAIL 2/A-7	2" x 5 3/4"	1½ PR. 4½"x4½" McKINNEY TA2731	SCHLAGE A73PD PLY 626	LCN 1054 PRIME	BROOKLINE BLACK PLASTIC 34"x8"
4	2'-6"x6'-8"x1 3/4"	B	CECO DWS 3A-16GA. DETAIL 2/A-7	2" x 5 3/4"	½ PR. 4½"x4½" McKINNEY TA2731	SCHLAGE A51PD PLY 626	NONE	BROOKLINE BLACK PLASTIC 28"x8"
5	3'-0"x6'-8"x1 3/4"	C	CECO GF 3A-16GA. DETAIL 8/A-7	2" x 4 3/4"	1½ PR. 4½"x4½" McKINNEY TA5779BB	SCHLAGE A73PD PLY 626	LCN 4415H SPD LIFE DOME	3'-0"x1'-6" S/S
6	1'-8"x6'-8"x1 3/4"	B	CECO DWS 3A-16GA. DETAIL 2/A-7	2" x 5 3/4"	1½ PR. 4½"x4½" McKINNEY TA2731	SCHLAGE A71PD PLY 626	NONE	BROOKLINE BLACK PLASTIC 18"x8"

NOTES
- ALL HARDWARE TO BE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.
- ALL HARDWARE TO BE US 26D FINISH UNLESS OTHERWISE SPECIFIED
- ALL INTERIOR DOORS TO BE KEYED ALIKE.
- FRAMES FOR DOORS 1 AND 5 TO HAVE 4" HEAD



DOOR TYPES

carlson/seekatz, inc.
ARCHITECTS
5555 N. LINCOLN AVENUE
CHICAGO, ILL. 60625

TACO BELL
(312) 775-7200
825 N. CASS AVE., SUITE 110
WESTMONT, ILLINOIS 60559

REVISIONS
12-14-79

BUILDING TYPE
29-54-SJ

TACO BELL JOB NO

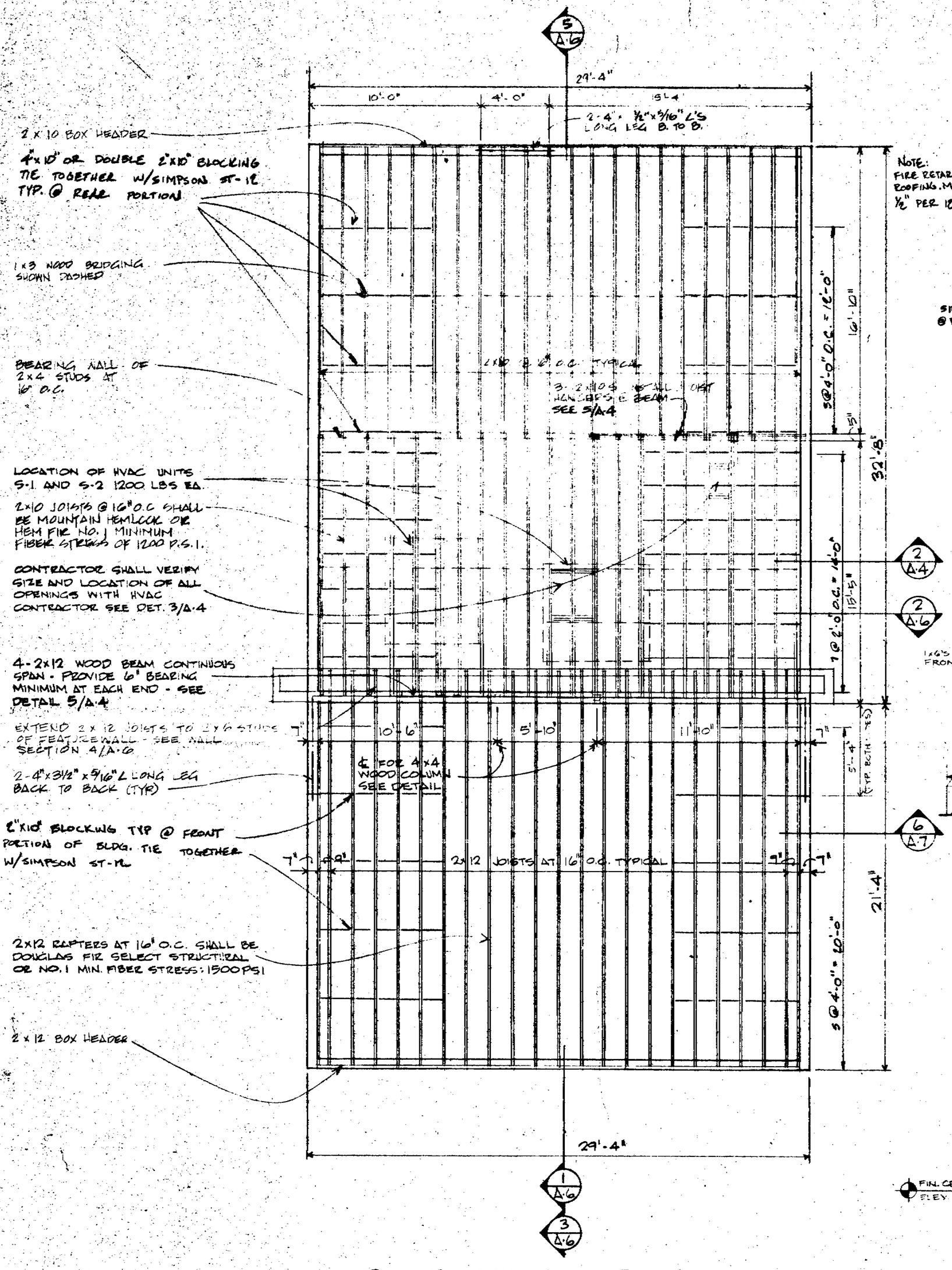
JOB NUMBER
79-20

DATE
5-25-79

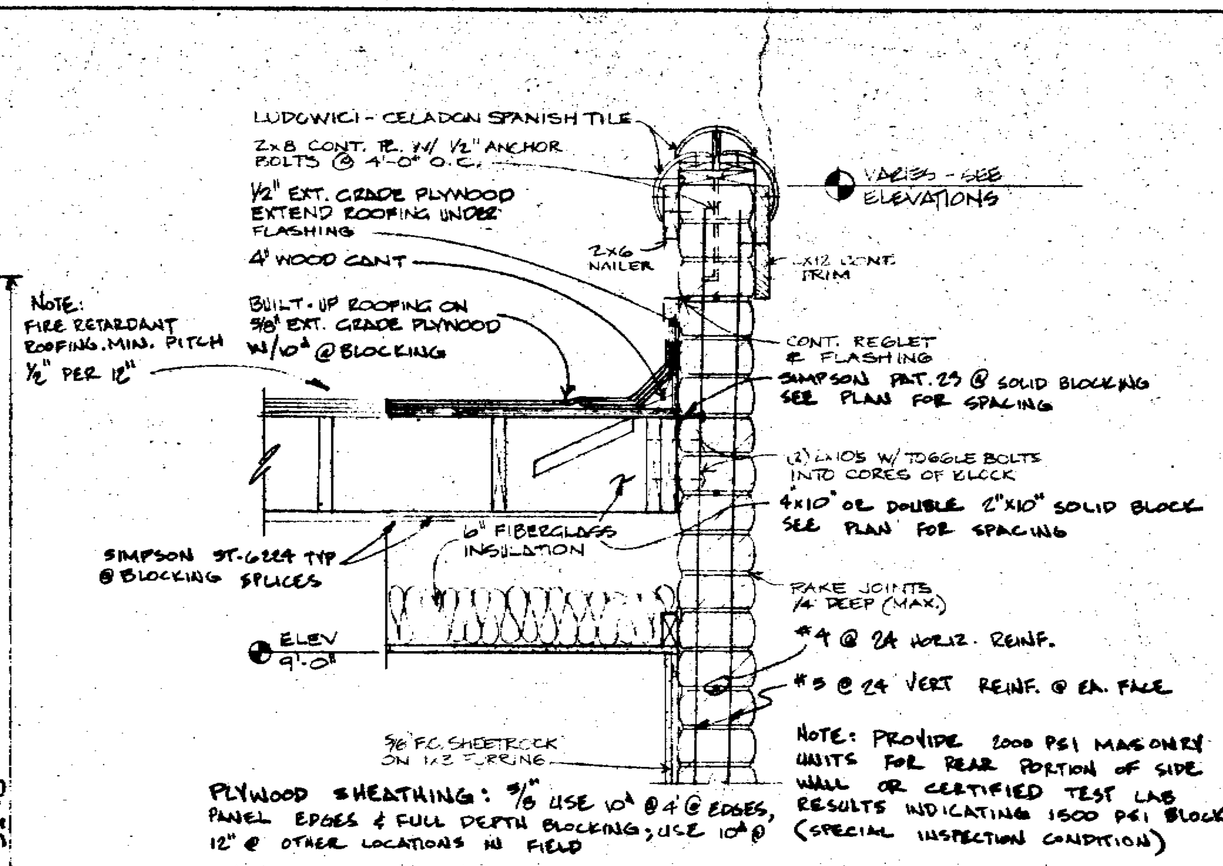
SHEET NUMBER
A-3

19

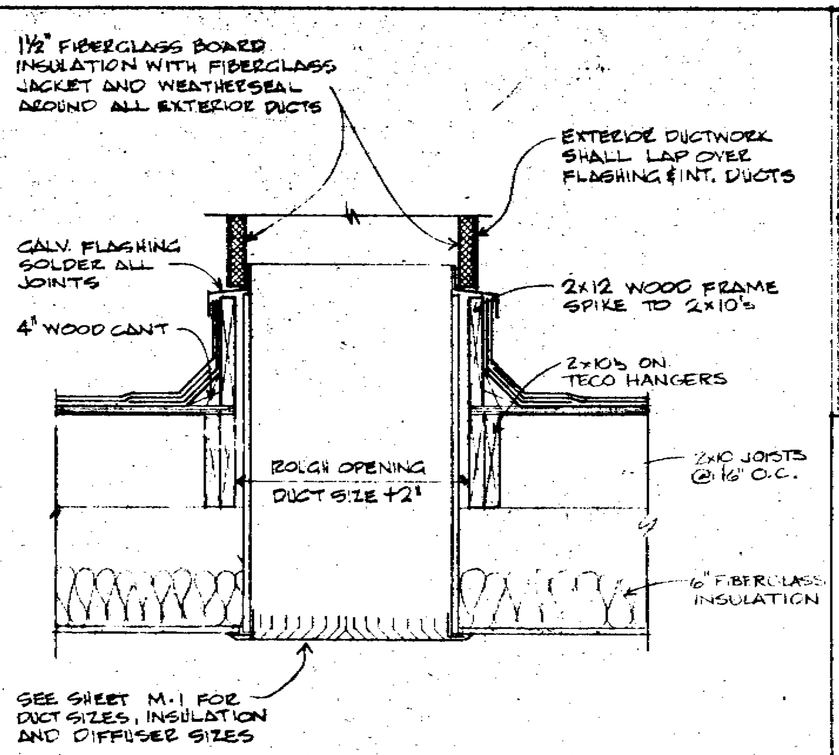
79-613



ROOF FRAMING PLAN 1/A-4
1/4" = 1'-0"



SIDEWALL DETAIL @ ROOF 2/A-4
SCALE: 1" = 1'-0"



TYPICAL ROOF OPENING DETAIL 3/A-4
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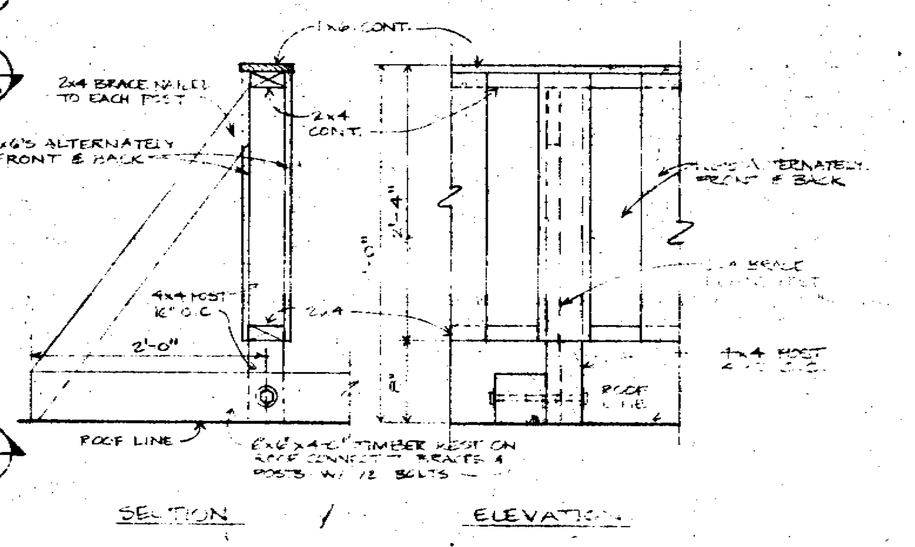
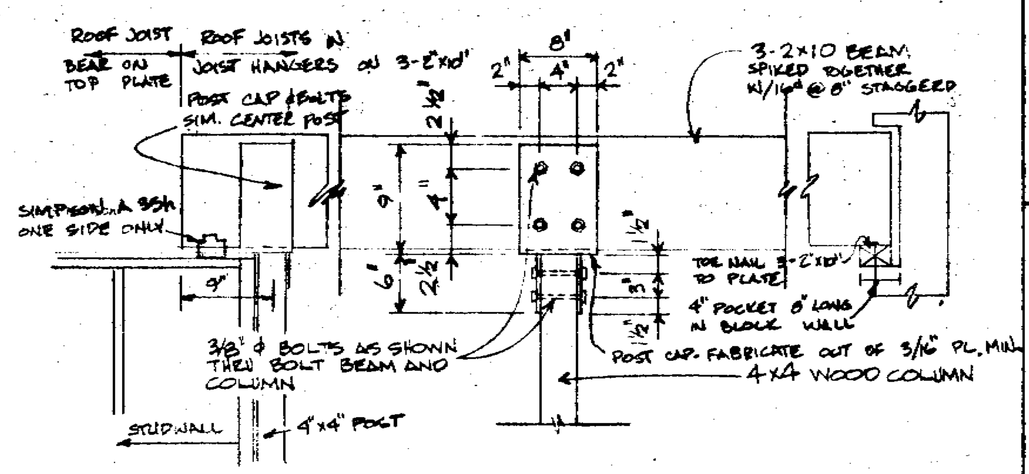
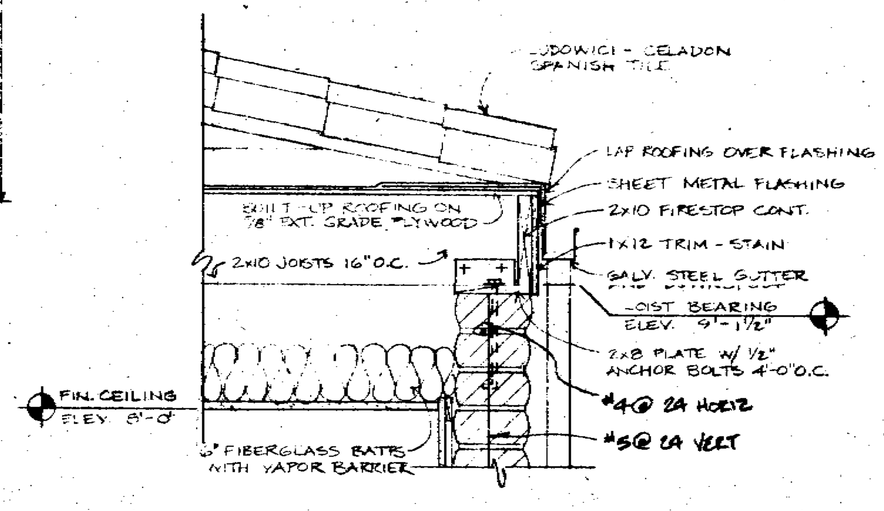


SECTION / ELEVATION

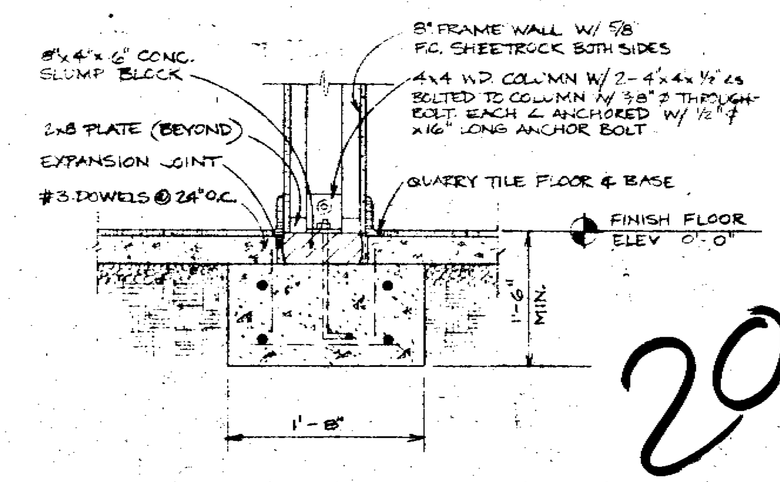
WOOD FRAME SCREEN DETAIL 4/A-4
SCALE: 1" = 1'-0"



WOOD COLUMN AT BEAM 5/A-4
SCALE: 1" = 1'-0"



GUTTER DETAIL 6/A-4
SCALE: 1" = 1'-0"



WOOD COLUMN AT FOUNDATION 6/A-4
SCALE: 1" = 1'-0"

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REVISIONS
12-14-79

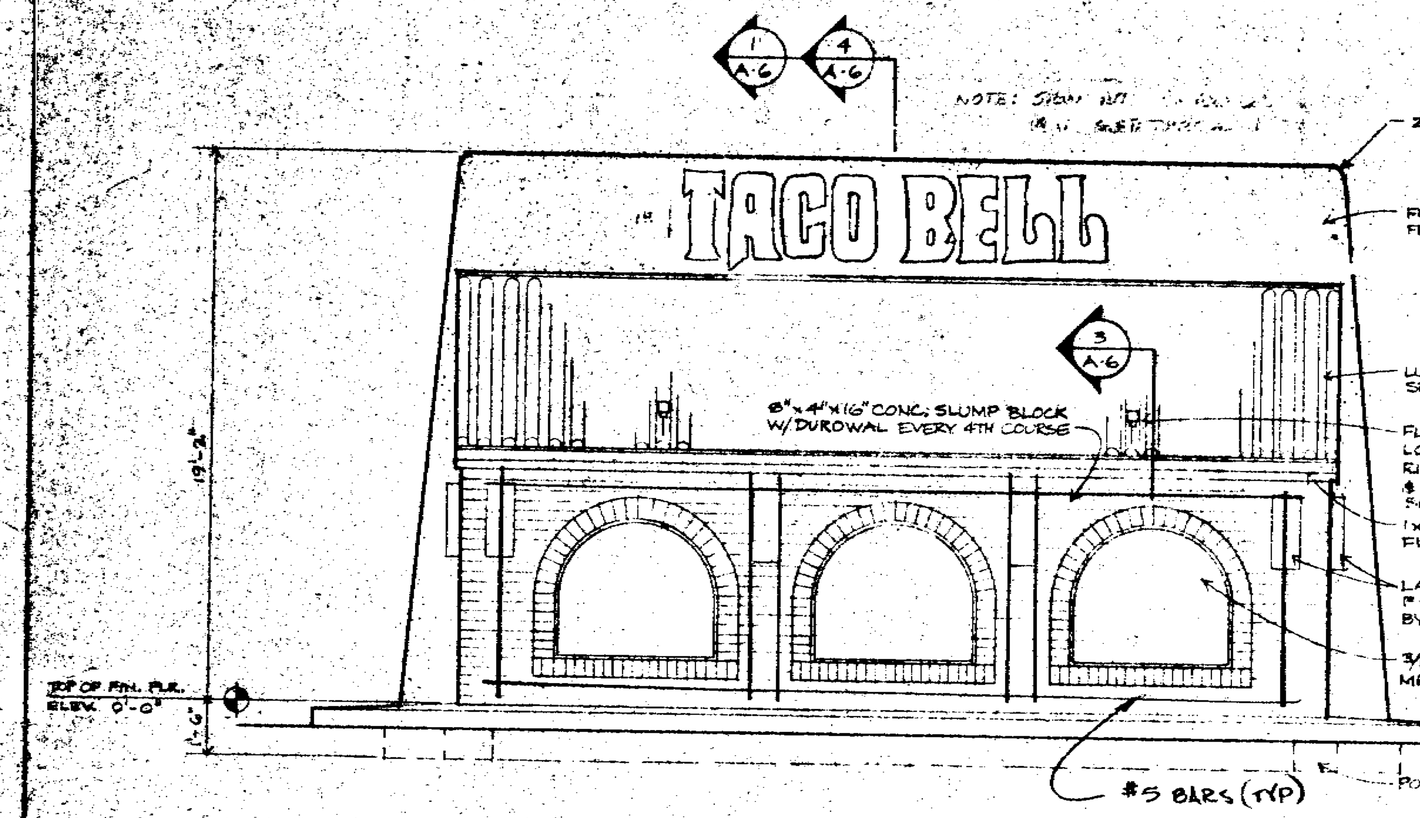
BUILDING TYPE
29-54-SJ

TACO BELL JOB NO.

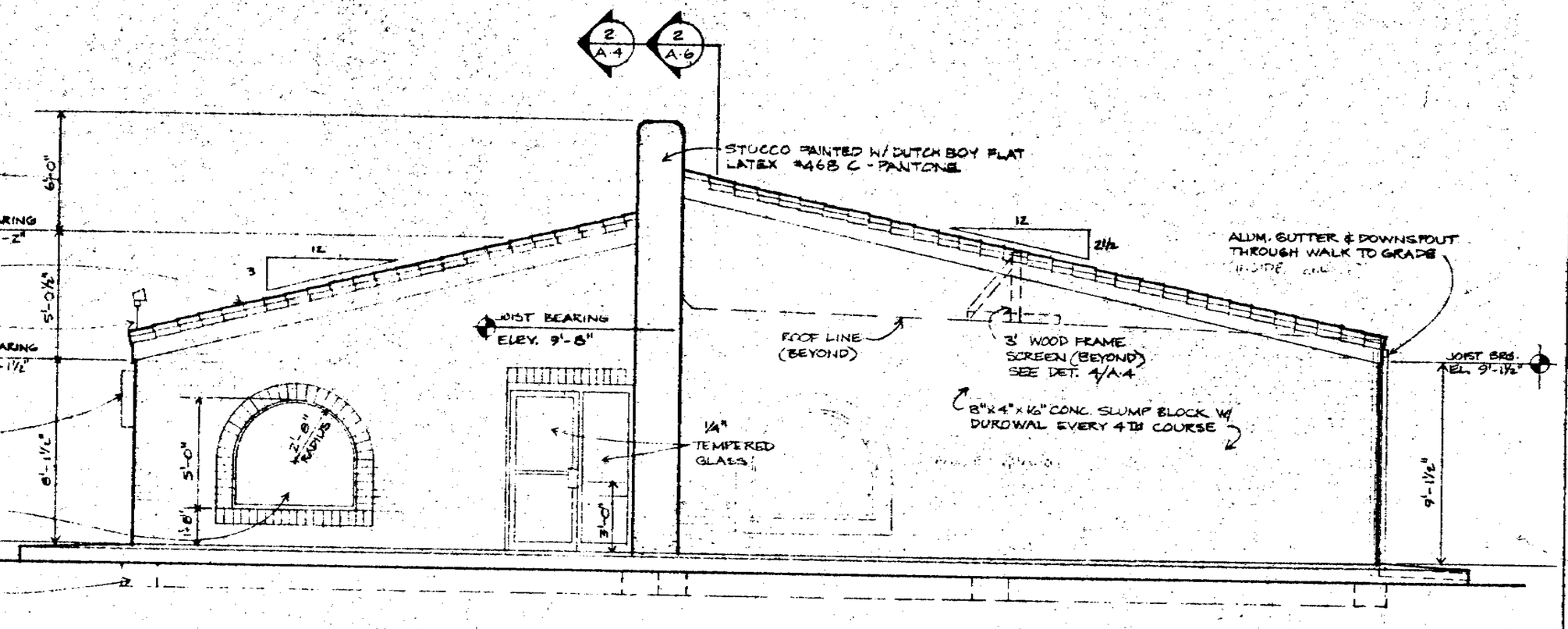
JOB NUMBER
79-29

DATE
5-25-79

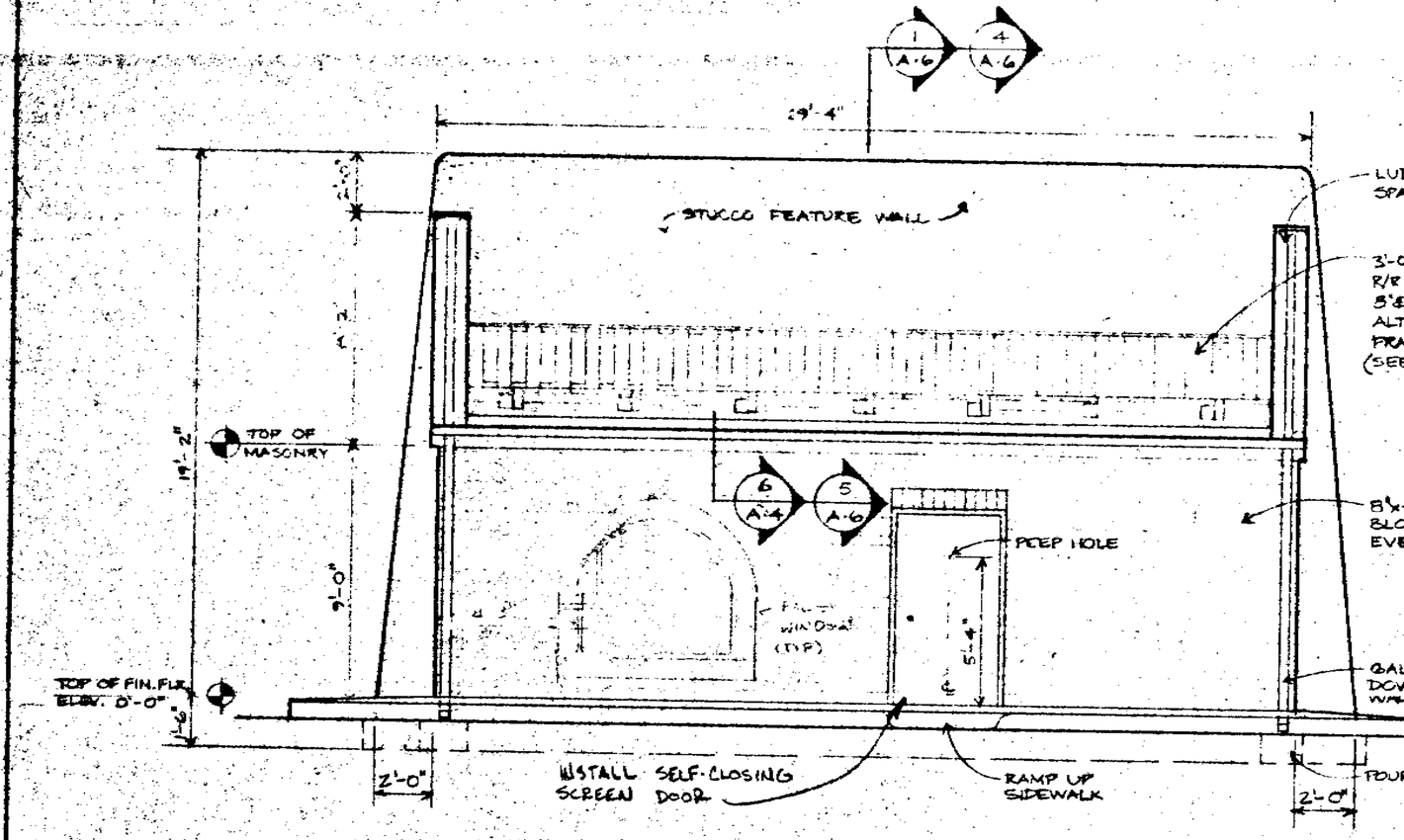
SHEET NUMBER
A-4



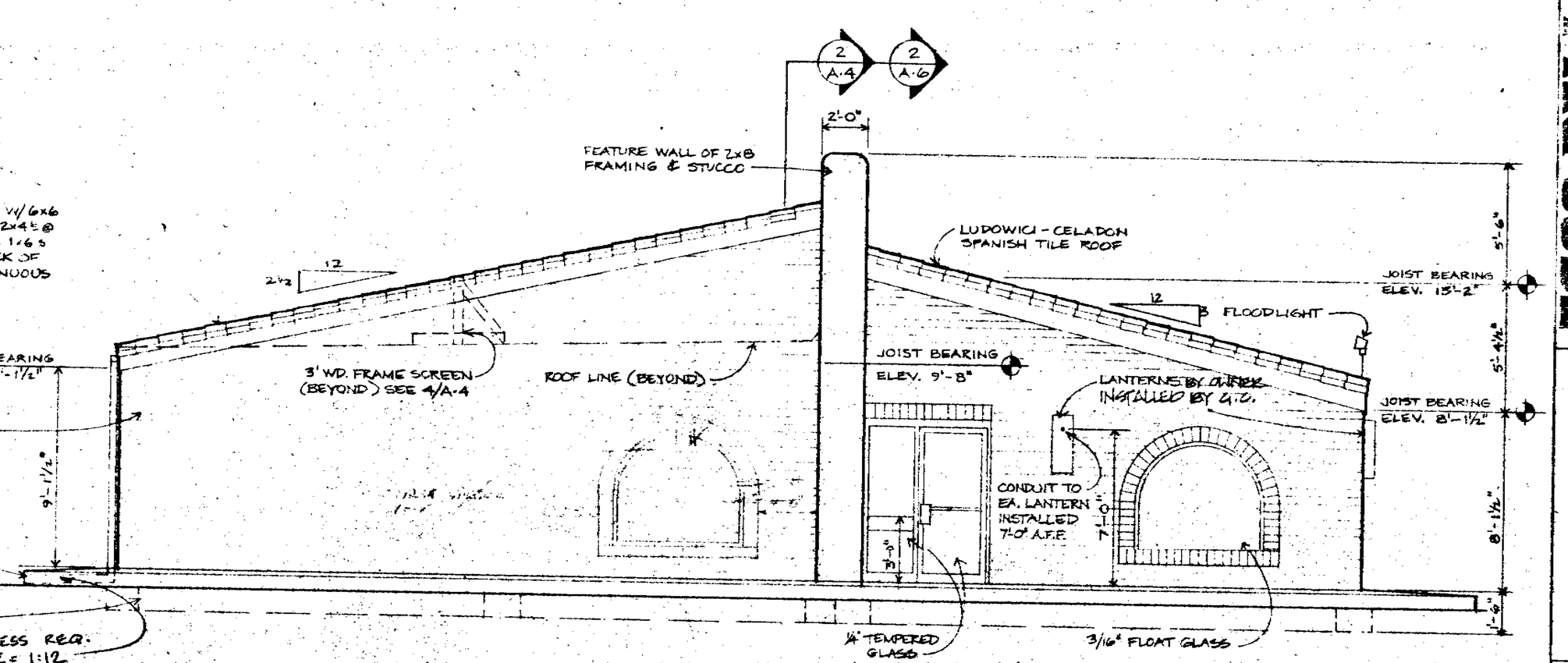
FRONT ELEVATION
SCALE: 1/4"=1'-0" (1/A-5)



RIGHT SIDE ELEVATION
SCALE: 1/4"=1'-0" (2/A-5)



REAR ELEVATION
SCALE: 1/4"=1'-0" (3/A-5)



LEFT SIDE ELEVATION
SCALE: 1/4"=1'-0" (4/A-5)

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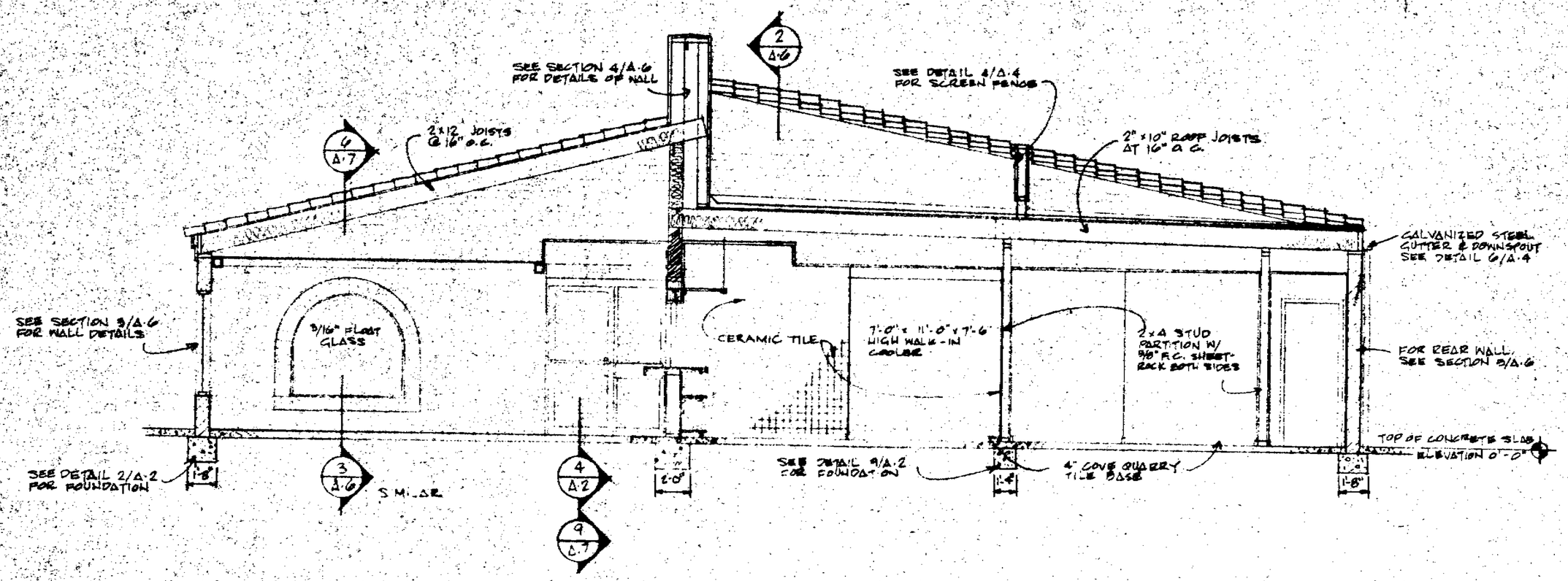
12-14-79

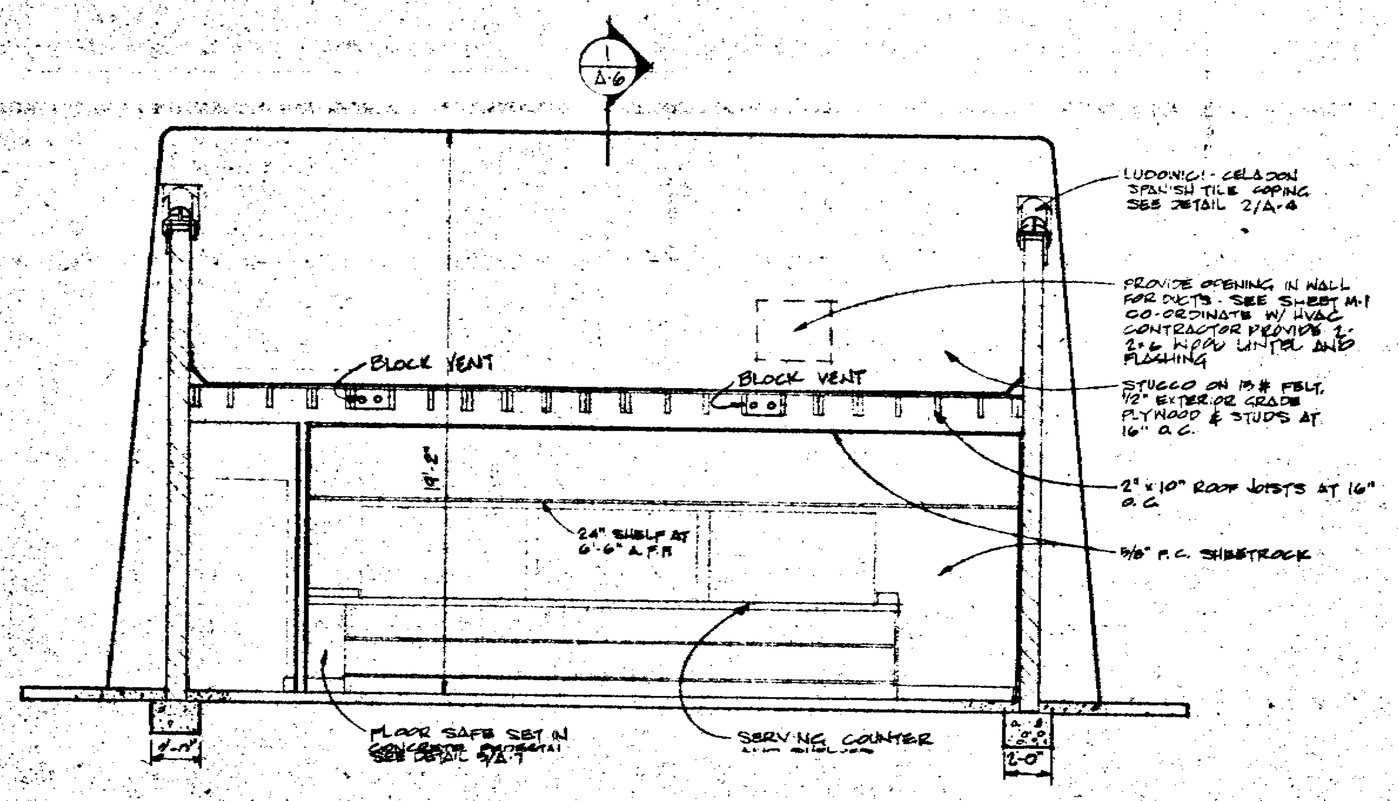
BUILDING TYPE	29·54·SJ
TACO BELL JOB NO	
JOB NUMBER	79-20
DATE	5-25-79
SHEET NUMBER	A·5

79 - 613



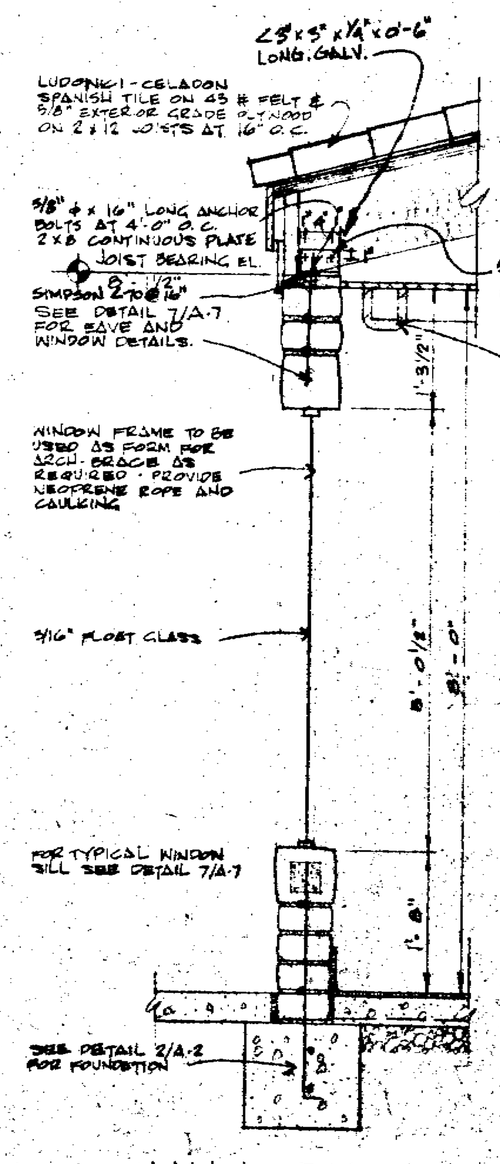
BUILDING SECTION 1 A.6

SCALE: 1/4" = 1'-0"



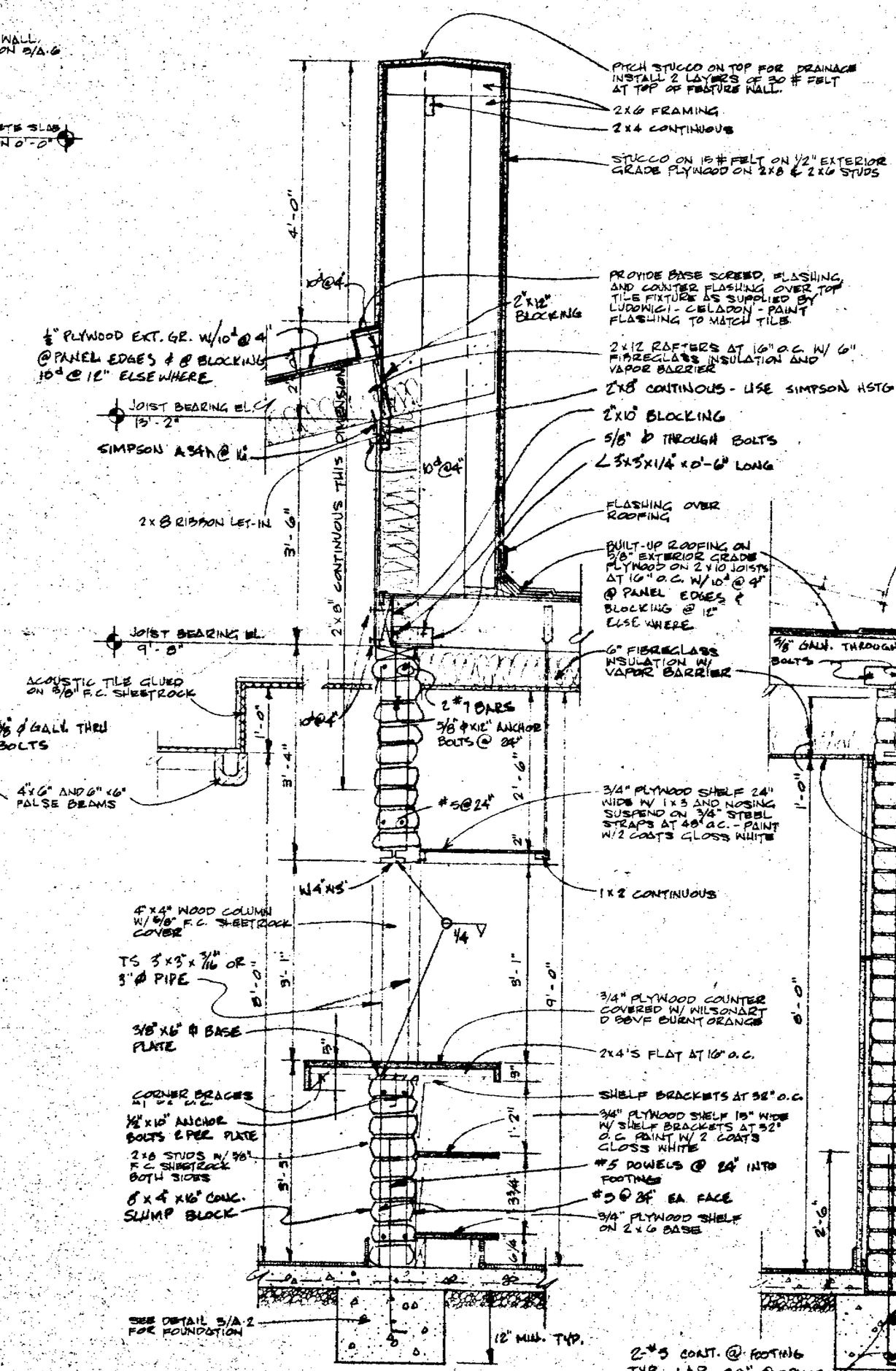
BUILDING SECTION 2 A.6

SCALE: 1/4" = 1'-0"



WALL SECTION 3 A.6

SCALE: 3/4" = 1'-0"



WALL SECTION 4 A.6

SCALE: 3/4" = 1'-0"

WALL SECTION 5 A.6

SCALE: 3/4" = 1'-0"

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12-14-79

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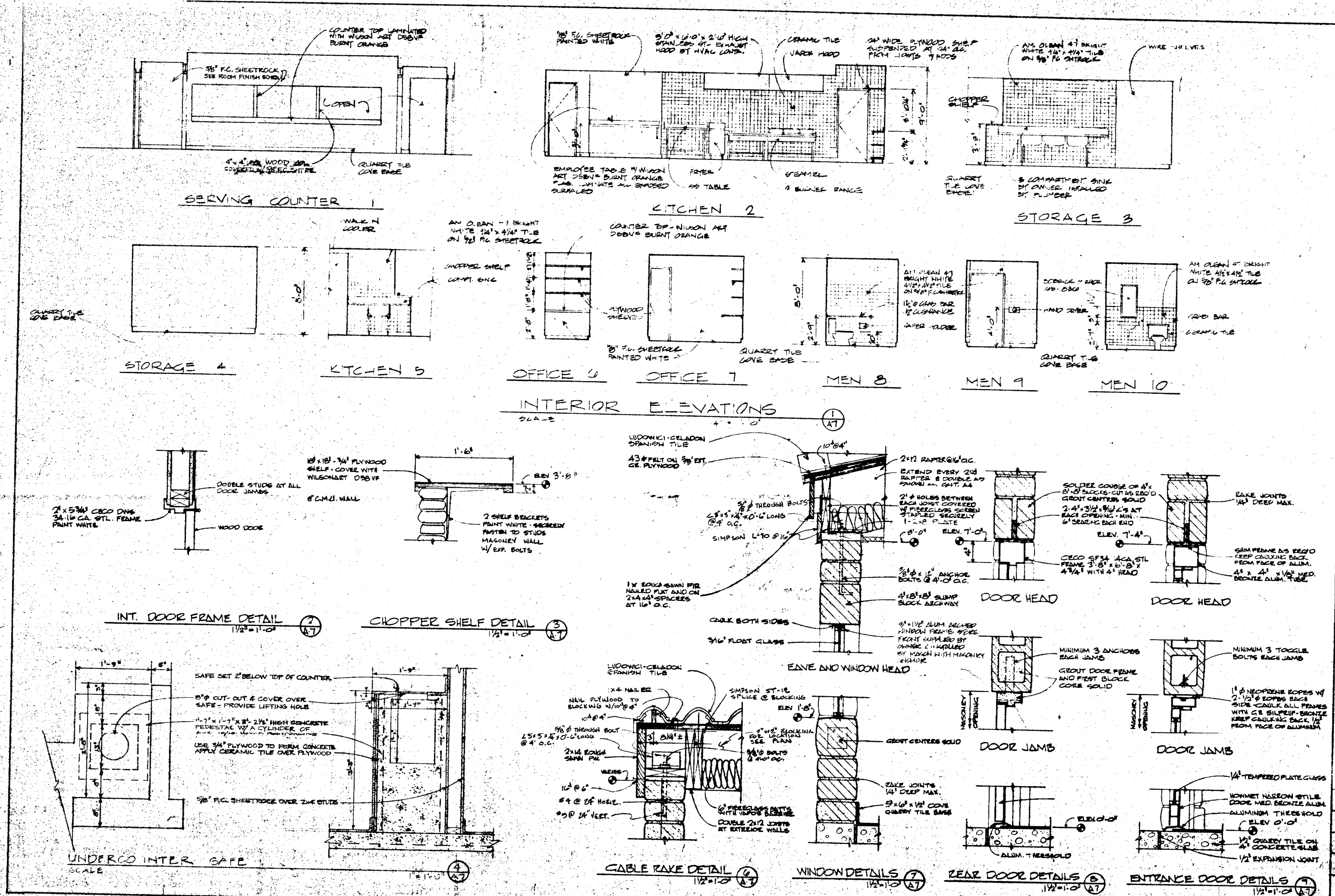
BUILDING TYPE	29·54·SJ
TACO BELL JOB NO	
JOB NUMBER	79-28
DATE	5-25-79
SHEET NUMBER	A·6

79-613



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REVISIONS
12-14-79

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BUILDING TYPE
29-54-SJ

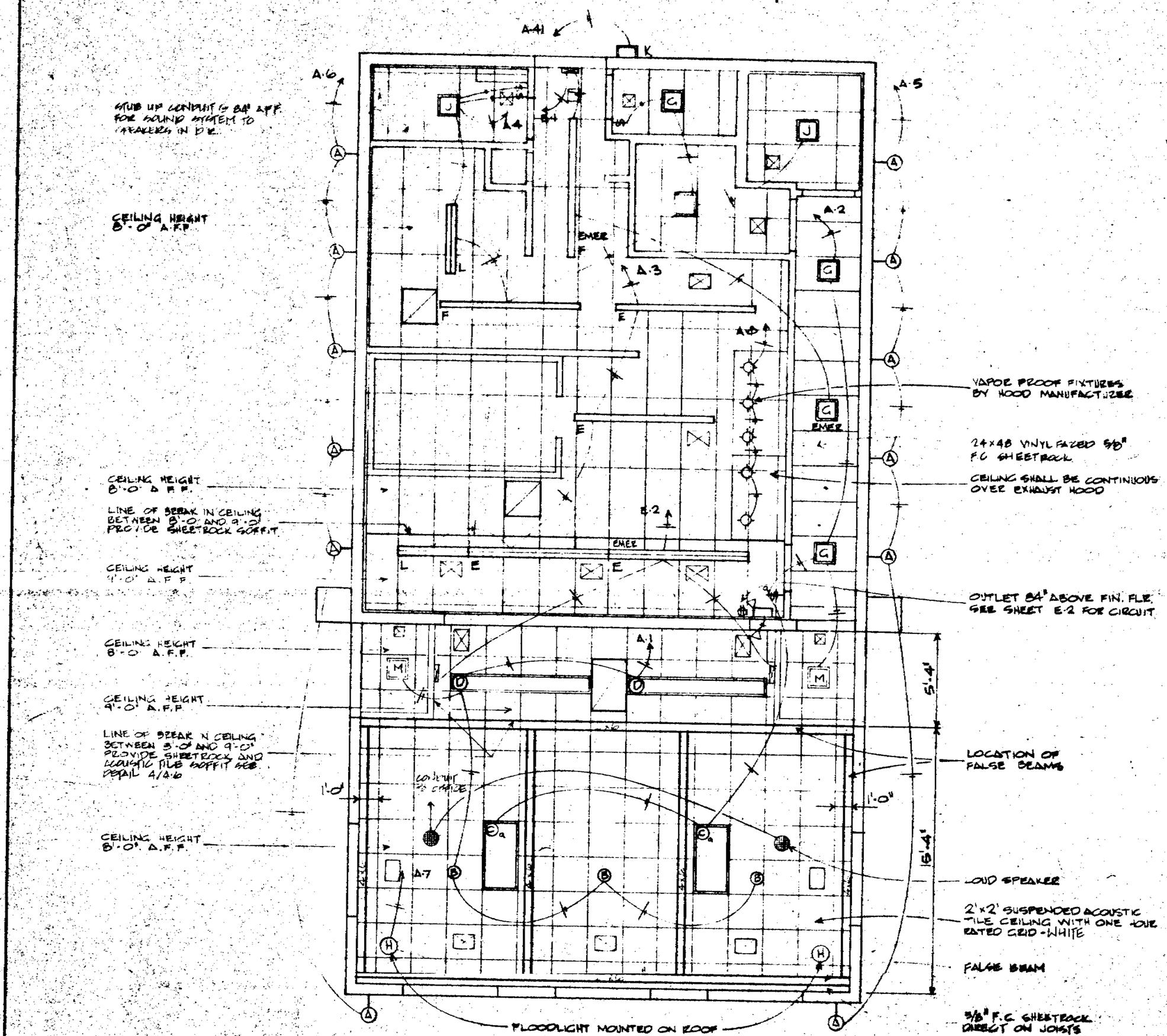
TACO BELL JOB NO.

JOB NUMBER
79-20

DATE
5-25-79

SHEET NUMBER
A-7

79 613



REFLECTED CEILING PLAN

1/4" = 1'-0"

E-1

LIGHT FIXTURE SCHEDULE

SYMBOL	MF'R & CATALOG NO.	LAMP	FIXTURE TYPE	MOUNTING	REMARKS
A	AS SPECIFIED BY OWNER	1-A-19	LANTERN	SUSPENDED	SUPPLIED BY G.C.
B	AS SPECIFIED BY OWNER		CHANDELIER	CEILING	SUPPLIED BY G.C.
C	LIGHTRON LFG440 2x4 LBA	4-40W W-W	2'x4' FLUORESCENT	RECESSED	
D	LIGHTRON LP6-240-1BT-LBA	4-F40 WW	1'x8' FLUORESCENT	RECESSED	
E	LIGHTRON 16-496SL-ETL	4-F96T12 WW	8' FLUOR. STRIP	SURFACE	PROVIDE CLEAR ACRYLIC SLEEVE ALL FLUOR. TUBE
F	LIGHTRON 125-296SL-ETL	2-F96T12WW	8' FLUOR. STRIP	SURFACE	PROVIDE CLEAR ACRYLIC SLEEVES ALL FLUOR. TUBES
G	ATLIGHT 9111-3-W-DL	1-100W A-19	SQUARE DOWNLIGHT	RECESSED	
H	GTE SYLVANIA 12F-500-103	500W QUARTZ	FLOODLIGHT	SURFACE	MOUNT ON ROOF
J	ATLIGHT 16C11-CHG.	2-20W T 12 DC	EXIT LIGHT	SURFACE	MOUNT ON CEILING
K	McGRAW EDISON FL 1051	250W MERCURY	PARKING LOT LIGHT	16' POLE	BRONZE
L	DUAL LIGHT 120 CNC TRG 5550-SYC	2-35W PAR 36	WALL BRACKET	SURFACE	BAT. OPER. EMER. LITE
M	BRON #696	1-100W A19	FAN/LITE COMBO	RECESSED	SUPPLIED BY HVAC CONTR.
K	LIGHTRON VP 8BH	1-100W MV	WALL LIGHT	SURFACE	10'-0" A.F.F.
L	LIGHTRON 16'440 RS-ETL	4-F40 WW	4' FLUOR. STRIP	SURFACE	PROVIDE CLEAR ACRYLIC SLEEVES ALL FLUOR. TUBE
M	ATLIGHT 9111-3-W-DL	1-60W A-19	SQUARE DOWNLIGHT	RECESSED	

ELECTRICAL NOTES

1. ALL ELECTRICAL WORK TO CONFORM TO ALL LOCAL CODES AND LOCAL UTILITY COMPANY REQUIREMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF PARKING LOT LIGHTS AND PYLON SIGNS ON INDIVIDUAL SITE PLAN.
3. CONTRACTOR SHALL VERIFY SERVICE VOLTAGE WITH UTILITY COMPANY AND REVISE AND BALANCE PANEL AS REQUIRED.
4. ALL REMOTE EQUIPMENT ON ROOF SHALL HAVE DISCONNECT SWITCH AT EACH PIECE OF EQUIPMENT.
5. ALL EXTERIOR RECEPTACLES, JUNCTION BOXES & EQUIPMENT SHALL BE WEATHERPROOF.
6. ALL CONDUIT & JUNCTION BOXES ARE TO BE RECESSED WHERE POSSIBLE AND ALLOWED BY CODE.
7. INSULATE ALL CONDUIT PASSING THROUGH WALK IN COOLER. FILL AROUND CONDUIT WITH DUCT-SEAL WHERE IT PASSES THROUGH COOLER WALL OR CEILING.
8. CONTRACTOR HAS THE OPTION OF LOCATING THE CONDUIT FOR THE MOST EFFICIENT WIRING. HOWEVER HE SHALL CONSULT ALL DRAWINGS FOR INTERFERENCES AND DIFFICULTIES PRIOR TO ANY INSTALLATION.
9. CONTRACTOR TO FURNISH AND INSTALL 2-8"Ø x 8OHM LOUDSPEAKERS WITH GRILLE. LOCATE AS SHOWN ON PLAN. STUB OUT LOW VOLTAGE WIRING IN OFFICE FOR FUTURE MUSIC SYSTEM. RUN IN 3/4" CONDUIT.
10. REFER TO MECHANICAL DRAWINGS FOR THE LOCATION OF THERMOSTATS, UNITS AND OTHER SPECIAL EQUIPMENT. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUITS, JUNCTION BOXES, AND DISCONNECT SWITCHES. THERMOSTAT AND CONTROL WIRING SHALL BE INSTALLED BY THE HVAC CONTRACTOR.
11. PANEL BOARD AND SERVICE SWITCHES SHALL BE SQUARE D, PETERSON PANEL OR PANELS APPROVED BY ARCHITECT AND TACO BELL. CIRCUIT BREAKERS SHALL BE UL APPROVED FOR USE AS SWITCHES

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REVISIONS
12-14-79

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BUILDING TYPE
29·54·SJ

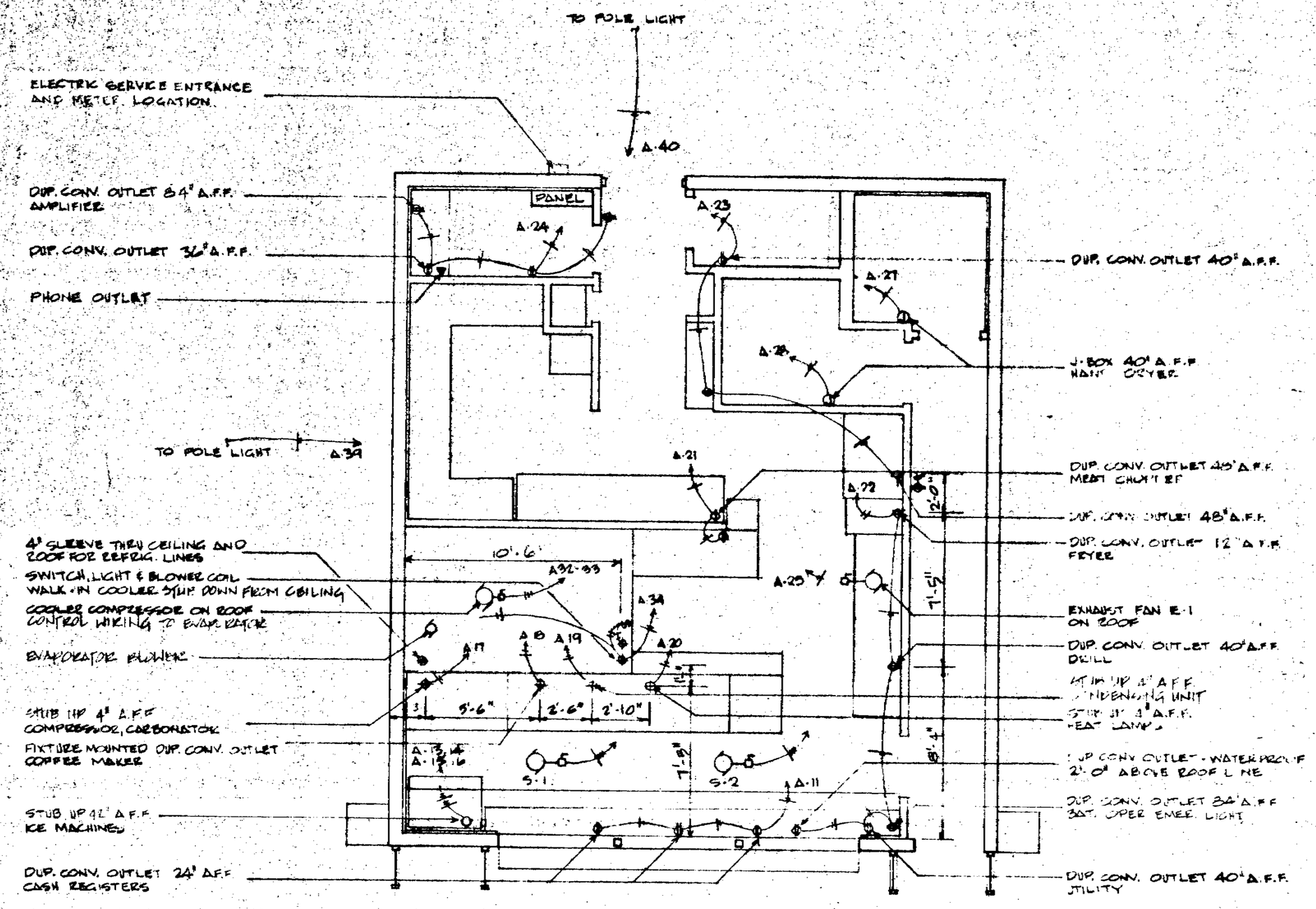
TACO BELL JOB NO

JOB NUMBER
79-20

DATE
5-25-79

SHEET NUMBER
E-1

79-613

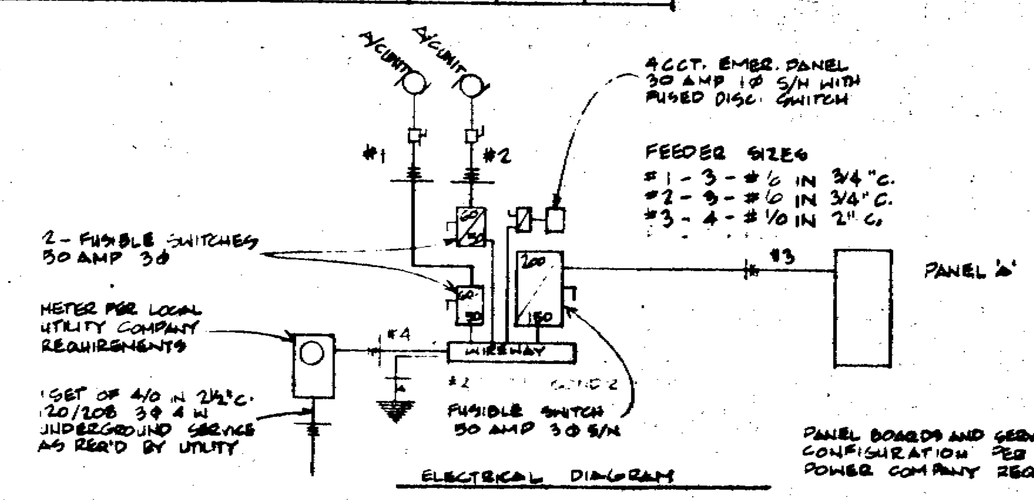


ELECTRICAL FLOOR PLAN

1/4" = 1'-0" (1) E-2

PANEL BOARD 'A' 120/208/3Ø/4W, 225 A MAINS											
CCT. NO.	DESCRIPTION	VOLTS	TRIP	POLE	WATTS	CCT. NO.	DESCRIPTION	VOLTS	TRIP	POLE	WATTS
1	LIGHTING	120	15	1	1020	22	DRILL & UTILITY	120	20	1	800
2	"	"	15	1	700	23	RECEPTACLES	"	20	1	600
3	"	"	15	1	960	24	RECEPTACLES	"	20	1	750
4	"	"	15	1	870	25	EXHAUST FAN E-1	"	20	1	700
5	"	"	15	1	900	26	SPARE	"		1	
6	"	"	15	1	600	27	HAND DRYER	"	20	1	1500
7	"	"	15	1	1000	28	HAND DRYER	"	20	1	1500
8	"	"	15	1	500	29	SPARE			1	
9	SPARE	"		1		30	SPARE	"		1	
10	SPARE	"		1		31	SPARE	"		1	
11	REGISTERS	"	20	1	1000	32	COOLER				
12	SPARE	"		1		33	COMPRESSOR	208	20	2	2700
13	ICE MACHINE	208	20	2	1000	34	BLOWER & LIGHTS	120	20	1	500
14						35	SPARE	"		1	
15	ICE MACHINE	208	20	2		36	SPARE	"		1	
16	(FUTURE)					37	PYLON SIGN	"	20	1	800
17	CARBONATOR COMPR	120	20	1	600	38	POLE LIGHT	"	20	1	500
18	COFFEE MAKER	"	20	1	1600	39	POLE LIGHT	"	20	1	500
19	CONDENSING UNIT	"	20	1	[illegible]	40	POLE LIGHT	"	20	1	500
20	HEAT LAMPS	"	20	1	[illegible]	41	REAR LIGHT	"	15	1	100
21	MEAT CHOPPER	"	20	1	1200	42	SPARE	"		1	

MAIN DISTRIBUTION PANEL "DP" 120/208V/3Ø/4W 200 AMP								
CCT. NO.	DESCRIPTION	VOLT	PHASE	POLE	FUSE	AMPS A	AMPS B	AMPS C
1	A/C UNIT S-1	208	3	3	50	31.7	31.7	31.7
2	A/C UNIT S-2	208	3	3	50	31.7	31.7	31.7
3	PANEL 'A'	120/208	3	3	150	67.1	67.1	67.1
	SPARE							



ELECTRICAL DIAGRAM

PANEL BOARDS AND SERVICE SWITCHES CONFIGURATION PER LOCAL CODES & POWER COMPANY REQUIREMENTS

CONTRACTOR SHALL CONTACT UTILITY FOR UNDERGROUND SERVICE REQUIREMENTS

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Carlson/Seekatz, Inc.
ARCHITECTS
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CHICAGO, ILL. [illegible]

TACO BELL
825 N. CASS AVE SUITE 110
WESTMONT, ILLINOIS 60559

REVISIONS
12-14-79

BUILDING TYPE
29-54-SJ

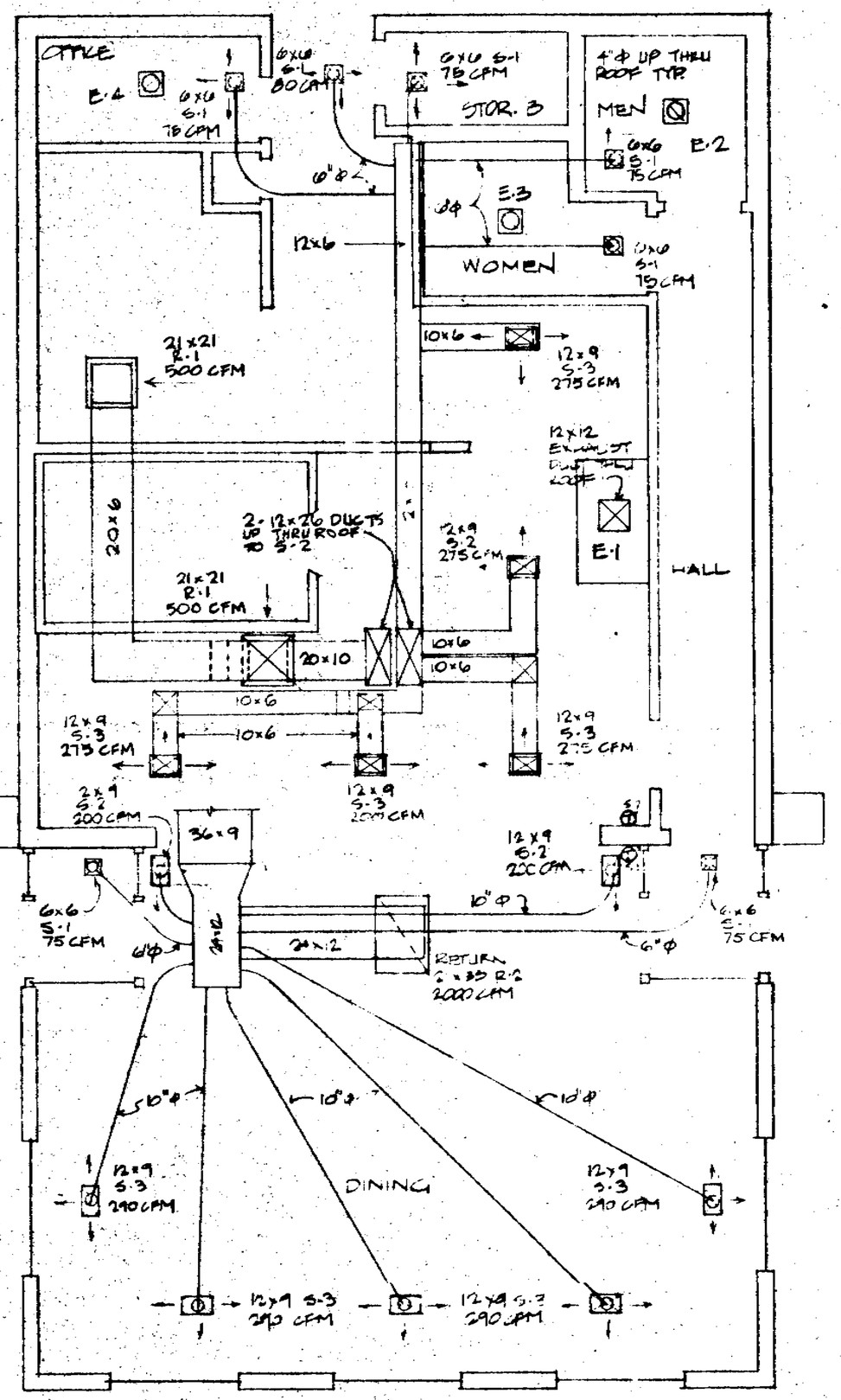
TACO BELL JOB NO

JOB NUMBER
79-[illegible]

DATE
11-25-79

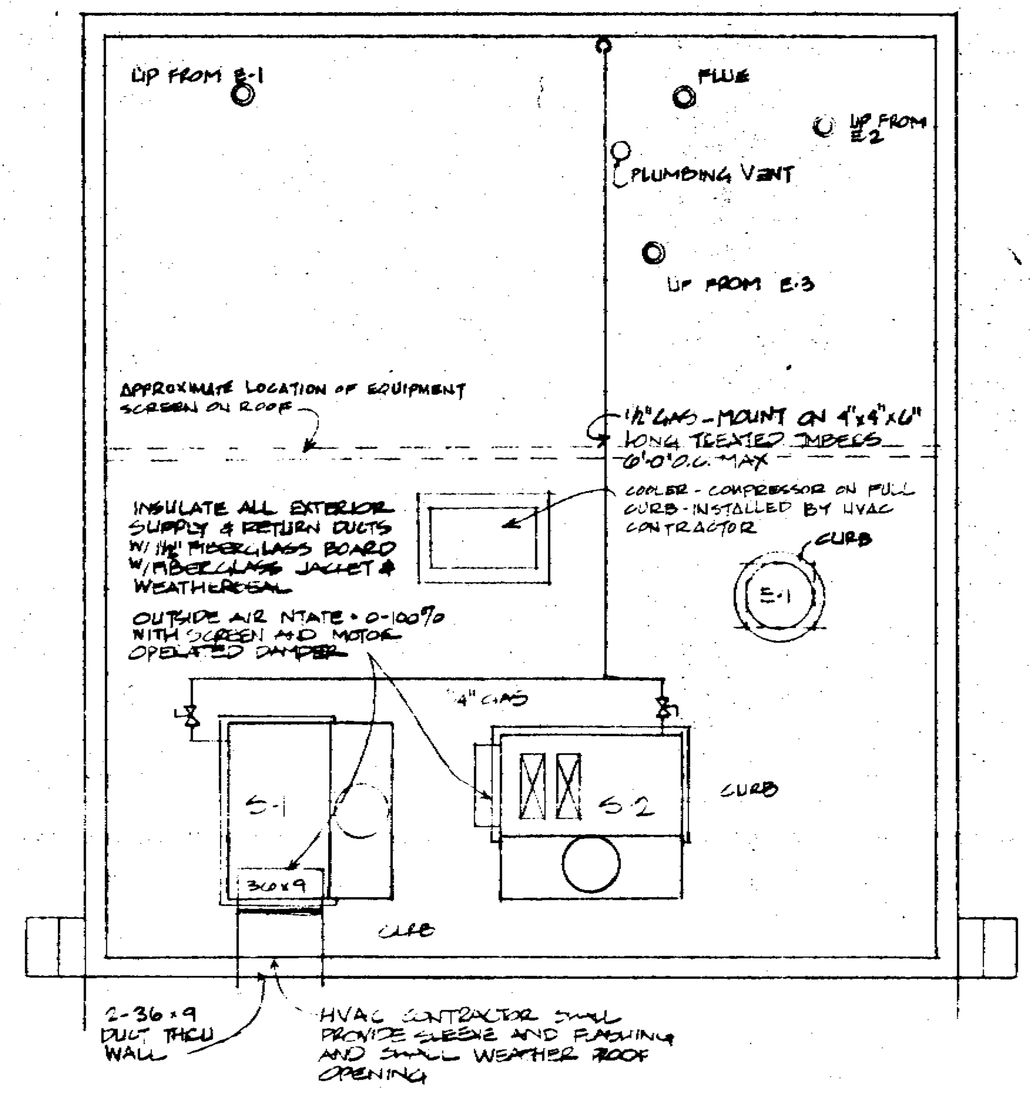
SHEET NUMBER
E-2

79-613



HVAC FLOOR PLAN

SCALE 1/4" = 1'-0"



HVAC ROOF PLAN

SCALE 1/4" = 1'-0"

EQUIPMENT SCHEDULE

S-1 Trane #SFCA 508H gas fired heating, electric cooling roof top unit, 2000 CFM @ 1/2" ESP, 208V/240V/3Ø/60 HZ. Cooling capacity 60,000 BTU @ ARI standard conditions, heating capacity 150,000 BTU input, 113,000 BTU output. Unit to have horizontal discharge and return, full curb, standard 40° ambient operation lifting legs, adjustable drive, throwaway filters 2 stage gas valve, electronic ignition, thermostat with guard, central control panel, 0-100% screened outside air intake with modulating type motor operated damper with potentiometer control. Potentiometer shall be mounted on a central control panel. Outside air damper to close automatically when unit is off and during unoccupied cycle. 1200 lbs.

S-2 Same as above except vertical discharge and 1680 CFM

E-1 Acme PU16G Kitchen Hood Exhaust 1820 CFM @ 3/4" SP, 1/4 HP, 115/1Ø/60. Complete with disconnect switch, grease catcher, cooling tubes, heat shields, backdraft damper. TO COMPLY WITH UMC 2003

E2 BROAN DELUXE FAN/LIGHT
E3 COMBINATION - MODEL 6940
E4 100 CFM 115V/1Ø/60 HZ

GENERAL NOTES

Receive, unload, and safely store HVAC curbs shipped to job site.

Cut, frame, and patch all required roof, floor and wall openings.

Furnish and install necessary supports, (lintels) for roof, floor and wall openings.

Rectangular ductwork to be per SMACNA recommendations with interior ductwork to have 1/2" fiberglass insulation. Exposed ducts to have 1 1/2" fiberglass insulation with fiberglass jacket and weatherseal. Round duct to be wire cold type 4K with 1" insulation.

DIFFUSERS AND REGISTERS TO BE TUTTLE & BAILEY OR EQUAL
S-1 6x6 MS-3-W1 W/MT DAMPER
S-2 12x9 MS-26L-W1 W/MT DAMPER
S-3 12x9 MS 35-W1 W/MT DAMPER
R-1 21x21 MF-4 W1
R-2 21x35 MF-4-W1

Furnish mason with metal sleeves for all ductwork through masonry.

ELECTRICAL NOTES

Provide and install all required power wiring and low voltage control wiring, including final connections to all electric operated equipment supplied by HVAC Contractor, air conditioning units, exhaust fans, master control panels, etc.

PLUMBING NOTES

Furnish and install gas piping for HVAC system including final connections.

Furnish and install air conditioning unit condensate drain piping.

VENTILATION SCHEDULE

ROOM	CODE REQ'MT. AREA	CODE REQ'MT. SUPPLY	CODE REQ'MT. EXHAUST	ACTUAL SUPPLY	ACTUAL EXHAUST
DINING	528	422	-	1050	-
KITCHEN	381	304	1000	025	1020
STOR. A	185	148	-	355	*
STOR. B	26	21		75	*
OFFICE	39	32	32	75	100
HALL	110	-		75	-
WOMEN	45	-	90	75	100
MEN	43	-	80	75	100

* RETURN THRU KITCHEN

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REVISIONS
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26

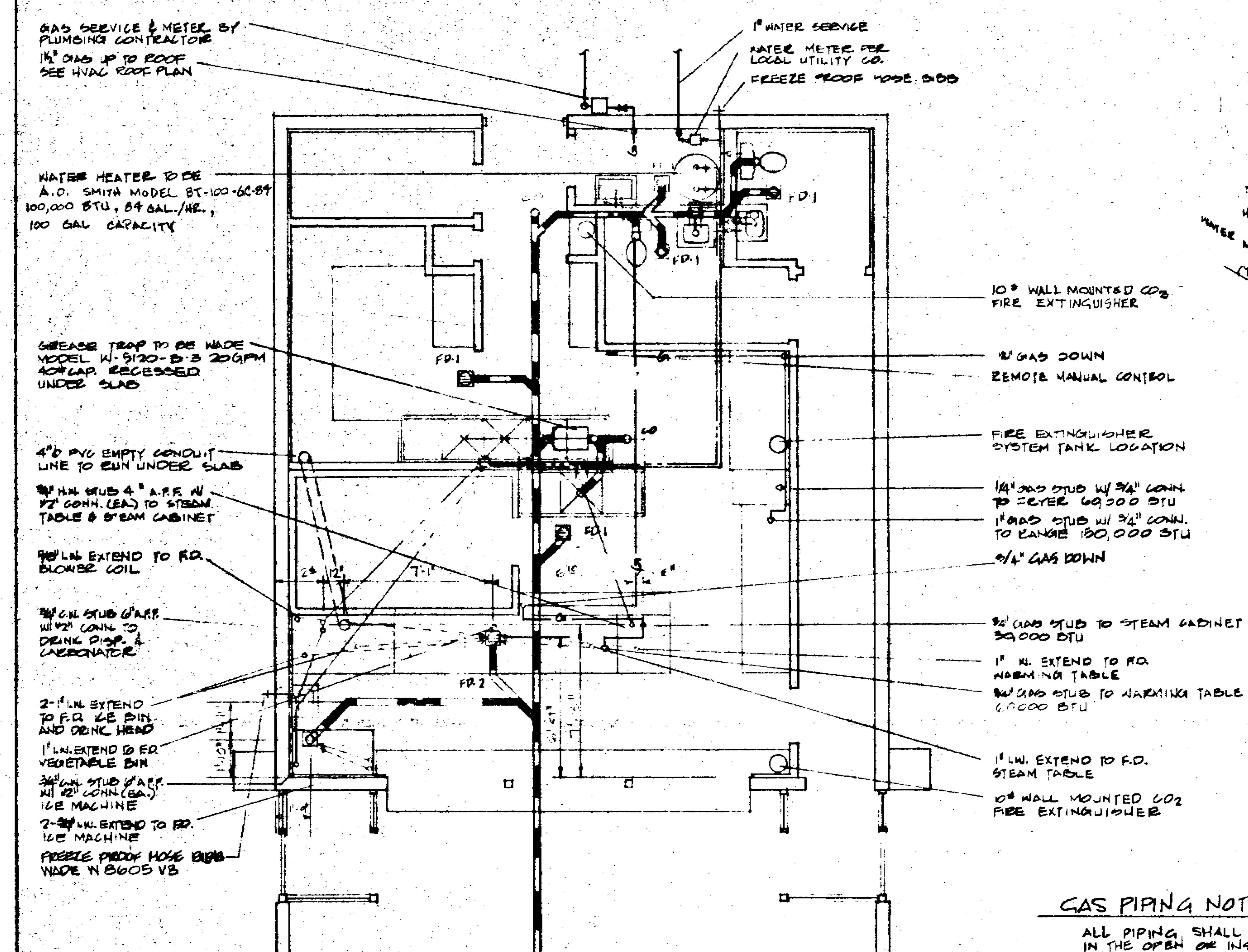
BUILDING TYPE
29-54-SJ

TACO BELL JOB NO

JOB NUMBER
79-20

DATE
5-25-79

SHEET NUMBER
M-1



FLOOR DRAIN SCHEDULE

FD-1	WADE MODEL W-1394-5D W/ POLISHED BRASS TOP
FD-2	WADE MODEL W-2304-B W/ REMOVABLE CAST IRON HOPPER
CO	WADE MODEL W-7004-5 W/ NICKEL BRASS SCORIATED COVER

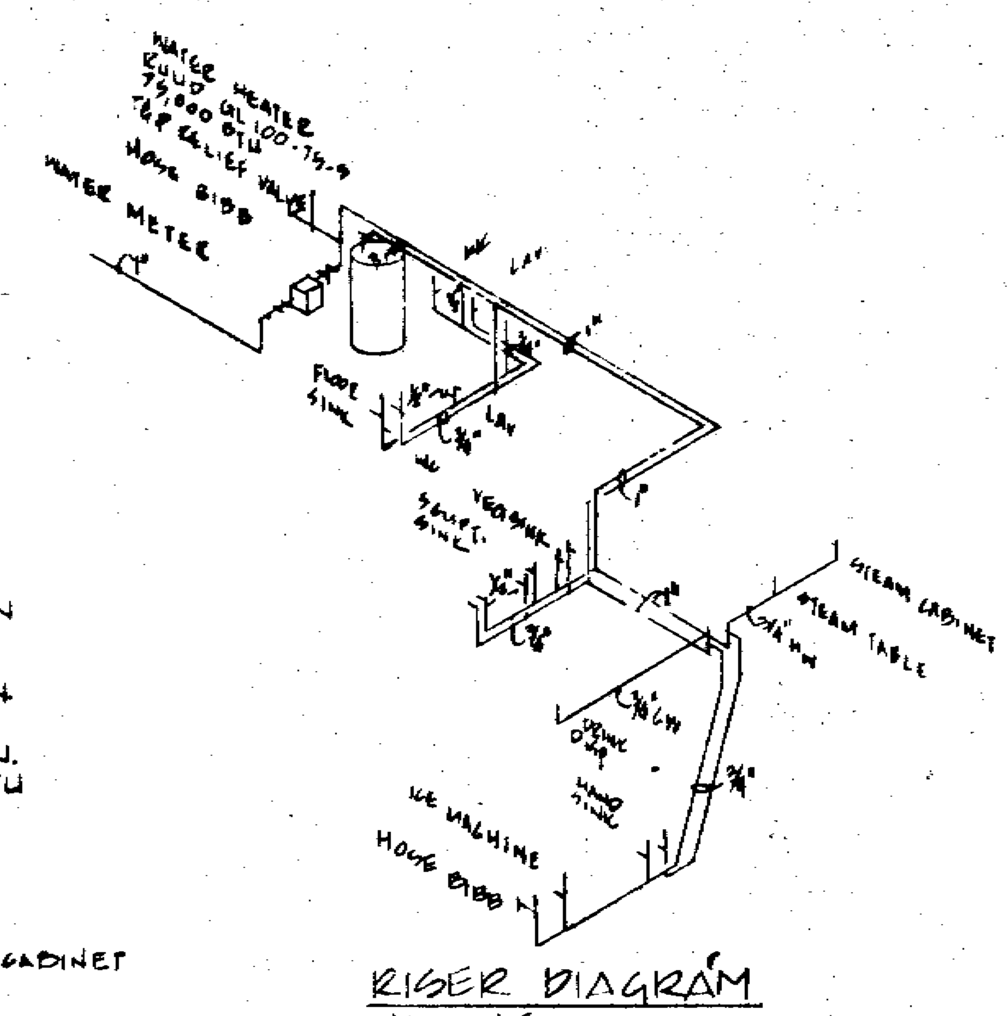
NOTES

ALL PIPING TO BE CONCEALED WHERE ALLOWED BY CODE. ALL UNDER SLAB PIPING SHALL BE INSTALLED W/ NO JOINTS BELOW FLOOR.

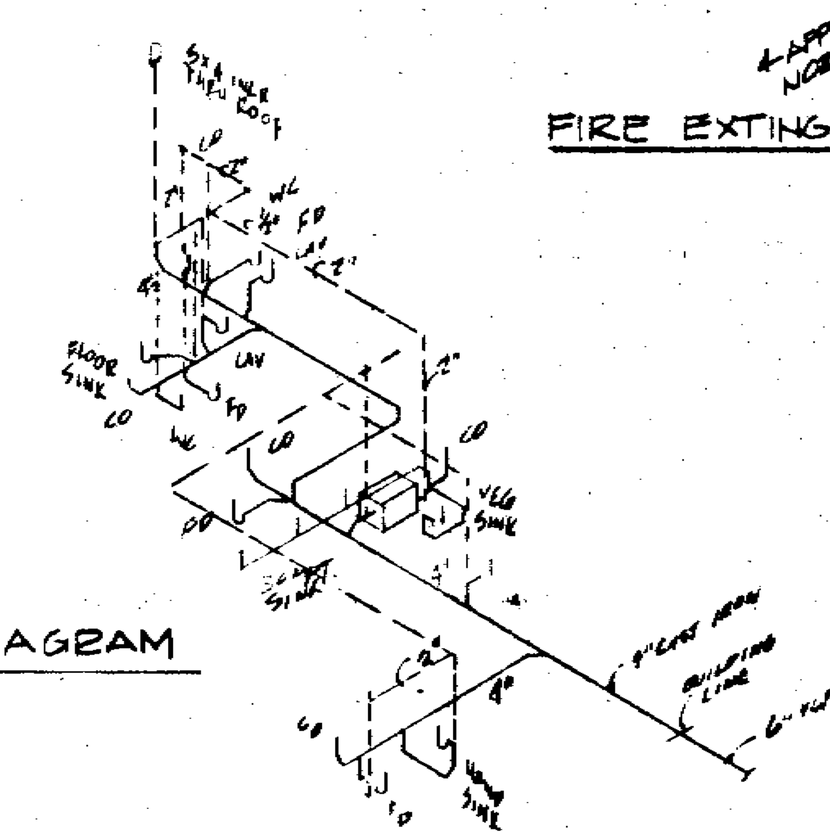
CONTRACTOR SHALL VERIFY ON SITE PLAN THE LOCATION OF THE SANITARY SEWER AND SHALL REVISE DRAINAGE SYSTEM AS REQUIRED.

GENERAL NOTES

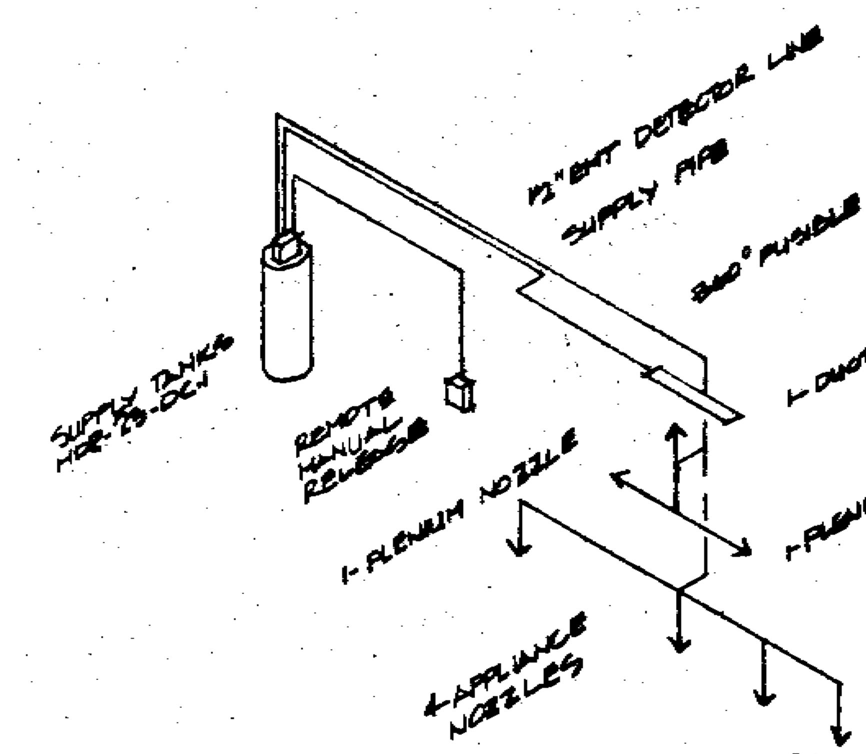
1. WATER PIPING BELOW GRADE TO BE TYPE 'K' COPPER. ABOVE GRADE TYPE 'L' COPPER. ALL SANITARY TO BE 4" CAST IRON.
2. INSTALL SHUT OFF VALVES AT ALL FIXTURE CONNECTIONS. (CHROME PLATED WHERE EXPOSED)
3. INSULATE ALL ABOVE GRADE HOT & COLD WATER LINES W/ ½" FIBERGLASS OR ARMSTRONG TYPE 'FR' INSULATION. BELOW GRADE HOT WATER PIPE TO BE INSULATED W/ ARMSTRONG FR/ARMAFLEX INSULATION.
4. REFER TO EQUIPMENT DRAWINGS FOR LOCATIONS OF ALL CONNECTIONS AND DRAINS. MAKE ALL CONNECTIONS.
5. FURNISH & INSTALL LEAD FLASHING ON ALL PIPING PASSING THRU ROOF
6. CONTRACTOR SHALL PROVIDE ALL VALVES, FITTINGS, TRAPS, ETC. AS REQUIRED FOR THE INSTALLATION OF ALL PIECES OF EQUIPMENT



RISER DIAGRAM
NO SCALE



DRAINAGE DIAGRAM
NO SCALE



FIRE EXTINGUISHER SYSTEM

GAS PIPING NOTES

ALL PIPING SHALL BE LOCATED IN THE OPEN OR INSIDE VENTED CHASES.

ALL PIPING UNDER SLAB TO RUN IN VENTED CONDUIT.

SHUT OFF GAS PIPING BEFORE DRAINING CONDENSATE.

GAS LOADS:

WATER HEATER	75,000 BTU
FRYER	60,000
RANGE	150,000
WARMING TABLE	45,000
STEAM TABLE	30,000
HVAC UNIT	150,000
HVAC UNIT	150,000
TOTAL	660,000 BTU

PLUMB. SYMBOLS

——	COLD WATER
——	COLD WATER UNDER SLAB
——	HOT WATER
——	HOT WATER UNDER SLAB
- - -	VENT PIPING
- - -	INDIRECT WASTE
━━	DIRECT WASTE
C.W.	COLD WATER
H.W.	HOT WATER
I.W.	INDIRECT WASTE
F.D.	FLOOR DRAIN
C.O.	CLEAN OUT
W.C.	WATER CLOSET
LAV.	LAVATORY
—G—	GAS LINE

FIXTURE SCHEDULE

FIXTURES: CONTRACTOR SHALL FURNISH AND INSTALL FIXTURES AS REQUIRED COMPLETE WITH SUPPLIES, STOPS, TRAPS, HANGERS, SUPPORTS, SEALS, ETC... ALL EXPOSED SUPPLY PIPES, STOPS, AND TRAPS SHALL BE CHROME PLATED BRASS. ESCUTCHEONS SHALL BE INSTALLED WHEREVER PIPING ENTERS OR LEAVES A FINISHED WALL.

A) LAVATORY: AMERICAN STANDARD SCOTIAN LAVATORY CAT NO. 0360.057 WALL HANGER WITH 2285.062 LAVATORY FAUCETS (2- HOT & COLD), 2303.023 SUPPLY PIPES 4362.018 GRID DRAIN AND 4419.040 'P' TRAP SMITH LAVATORY SUPPORTS #700.

B) WATER CLOSET: AMERICAN STANDARD ELONGATED CADET TOILET NO. 2109.171 SIPHON JET ELONGATED BOWL, CLOSE COUPLED TANK, FREE STANDING, VITREOUS CHINA, 2 BOLT CAPS AND TANK COVER LOCKING DEVICE - 5320.536 SEAT (BLACK) WITH 3140 STAINLESS STEEL HINGE

C) HAND SINK: AMERICAN STANDARD LUCERNE LAVATORY CAT NO. 0355.012 WALL HANGER AND NO. 2103.484 4" CENTER SET FAUCET WITH VANDAL-PROOF CROWN HANDLES, POP-UP DRAIN, AND AERATOR. AMERICAN STANDARD LEGS #2551.018.

D) KIT. SINKS: VEGETABLE SINK & 3 COMPARTMENT SINK SUPPLIED BY KIT. EQUIPMENT CONTRACTOR INSTALLED BY PLUMBING CONTRACTOR. PROVIDE CHICAGO FAUCET CO. MODEL 540-LD-L12 W/ 12" SWING SPOUT

E) SERVICE SINK: AMERICAN STANDARD 'LAKEWELL' 7692.023 W/ 8379.018 RIM GUARD & 7798.176 P-TRAP. PROVIDE CHICAGO FAUCET CO. MODEL 897 FAUCET W/ VACUUM BREAKER, WALL BRACE, PAIL HOOK, & LAV. LEGS #2551.018.

FIRE EXTINGUISHER SYSTEM

SUPPLY FIRE EXTINGUISHER SYSTEM MODEL HDR-25-DC-1 SENTINAL DRY CHEMICAL SYSTEM AS MANUFACTURED BY WALTER KIDDE & CO. INC., OR APPROVED EQUAL. SEE APPROVED SHOP DRAWINGS FOR DETAILS. FURNISH & INSTALL A ONE (1) TANK SYSTEM. THE SYSTEM SHALL COMPLY WITH ALL LOCAL CODES AND NFPA BULLETIN NO. 96 PLUS THE FOLLOWING:

1). FURNISH & INSTALL AUTO GAS SHUT-OFF VALVE (MECHANICAL).
2). ALL EXPOSED PIPE SHALL BE GALVANIZED IRON PIPE.
3). INSTALL REMOTE MANUAL RELEASE.
4). CYLINDER LOCATION AS SHOWN ON PLUMB. FLOOR PLAN.
5). ½" & ¾" WP FITTINGS & WP INSPEC. PLATE INSTALL BY HOOD & DUCT FABRICATORS.
6). SUPPLY 360° FUSIBLE LINK CONNECTION AT HOOD.
7). SUPPLY NOZZLES: a) DUCT NOZZLES-2, b) PLENUM NOZZLES-2, c) COOK APPL. NOZZLE.
8). INSTALL SO AS NOT TO INTERFERE WITH VENTILATORS OPERATION & PERFORMANCE.
9). SUPPLY WALL MOUNT. 10# CO_2 BC FIRE EXTING. AS SHOWN.

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carlson/seekatz, inc.
ARCHITECTS
(312) 775-7286
6309 N. LEMAI AVENUE
CHICAGO, ILL. 60646

TACO BELL
507 S. WILLOW SPRINGS RD.
LA GRANGE, ILLINOIS 60525

REVISIONS 12-14-79

BUILDING TYPE 29-54-SJ

TACO BELL JOB NO.

JOB NUMBER 79-20

DATE 5-25-79

SHEET NUMBER P-1

19-613

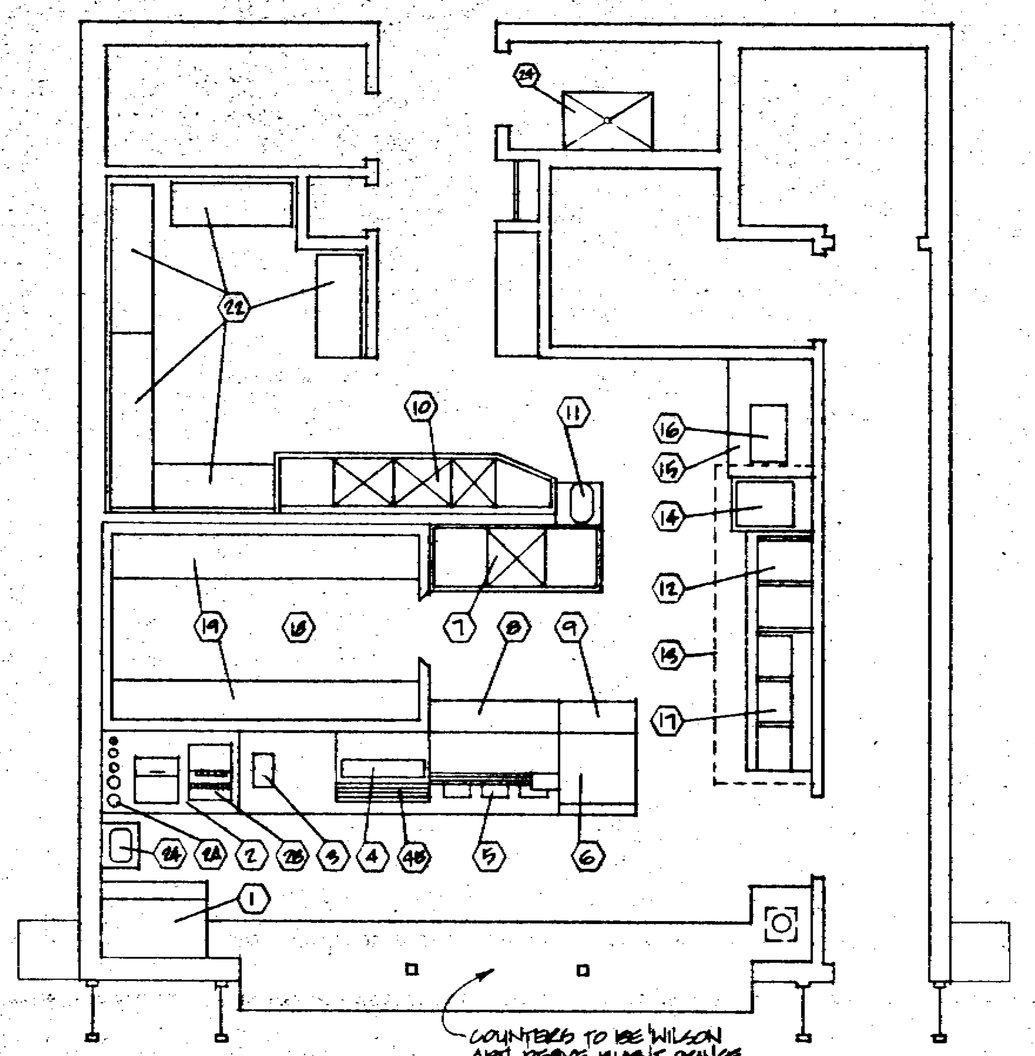
NOTES

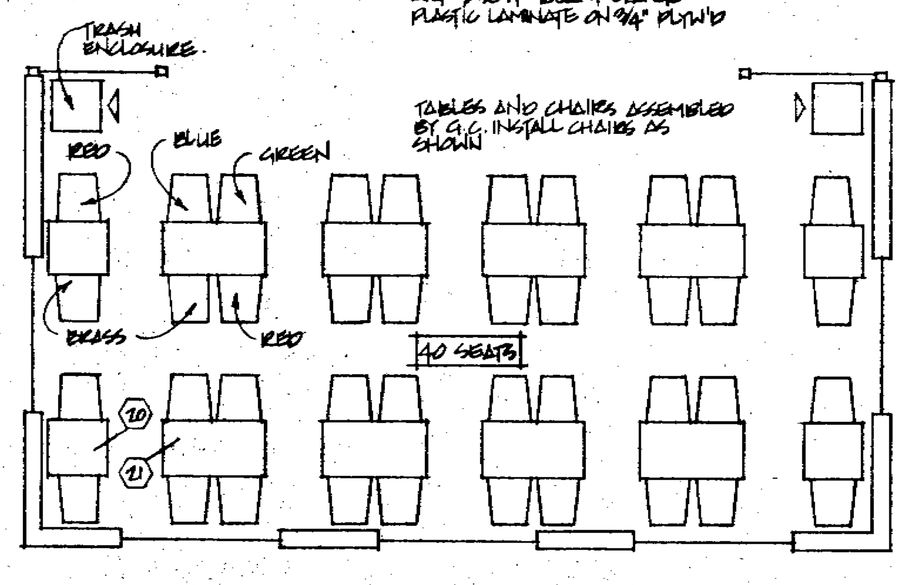
INSTALL FIXTURES AS SHOWN, LEVEL, ALIGN FRONTS AND BOLT TOGETHER BEFORE PROVIDING ELECTRICAL AND PLUMBING HOOK-UPS

SEAL ALL EQUIPMENT W/ CLEAR SILICONE CAULK AT EDGES OF TOP AND SPLASH AT WALL AND CONNECTIONS TO OTHER EQUIPMENT

REMOVE EXCESS SILICONE WITH LACQUER THINNER

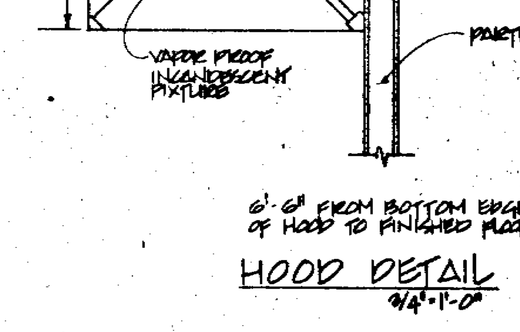
ATTACH WIRE RACKS TO BACK OF STEAM TABLE





EQUIPMENT PLAN
SCALE 1/4" = 1'-0"

SPLASH DETAIL
NO SCALE



COOLER DETAIL
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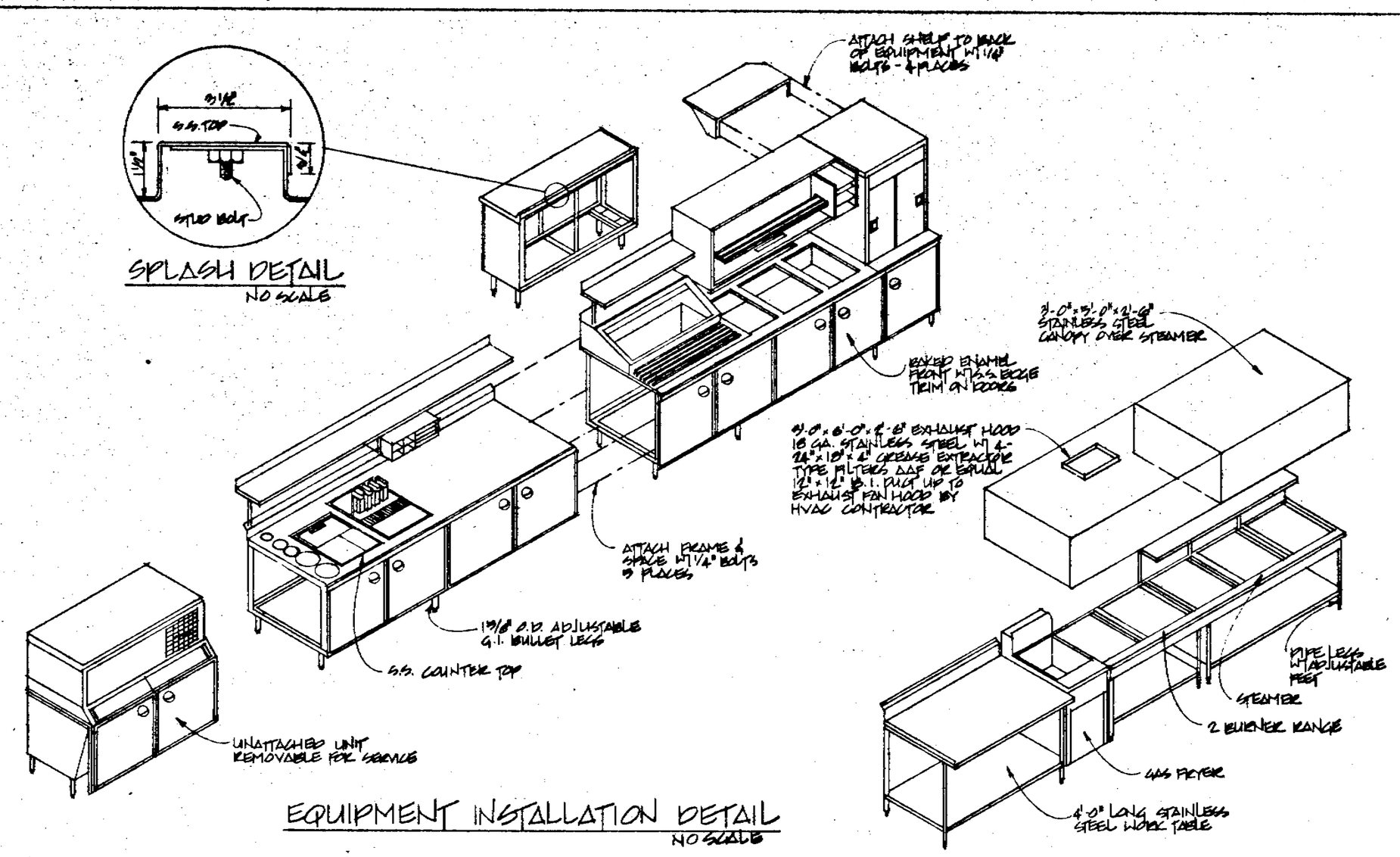
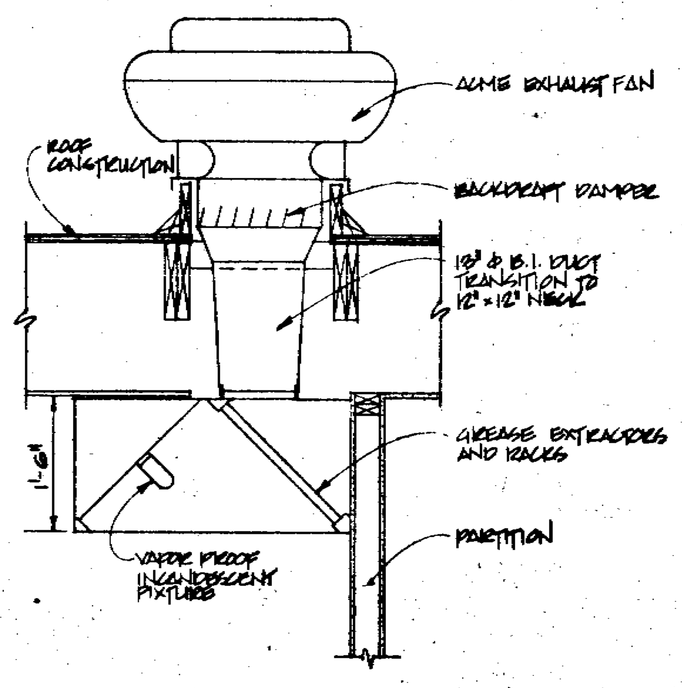


EQUIPMENT INSTALLATION DETAIL
NO SCALE



HOOD DETAIL
3/4" = 1'-0"

EQUIPMENT SCHEDULE (ALL ITEMS TO BE INSTALLED BY GENERAL CONTRACTOR)

NO.	QTY.	BY W.S.	BY T.B.	BY G.C.	ITEM	MANUF. & MODEL NUMBER	CW	HW	DRAIN	GAS	ELEC.	REMARKS
1	1	●			ICE MACHINE	KOLD DRAFT # G81WN4-S	1/2"		(3) 3/4" (1) 1/2"		1 HP 220/1/60	
2	1	●			BEVERAGE UNIT	FABRICATED	1/4"		(2) 1/4"			
2A	5	●			CUP DISPENSERS	LILY 1EG, 2EG, 1, & 3EG						
2B	1	●			DRINK DISPENSER				1 1/4"			
3	1		●		COFFEE MAKER	GLEX # 8945					10.8 KW 220/1/60	
4	1	●			VEG. BIN & TACO RACK	FABRICATED			1"			
4A	1	●			OVERSHELF - TABLE MOUNTED							
4B	1	●			TACO HOLD							
4C	2	●			SCRAP CANS							
5	1	●			STEAM TABLE W/ WARM'G CABINET	FABRICATED		1/2"	1"	3/4" (60,000)	(3) 1.8 KW 120/1/60	VERIFY GAS CAP. SIZE
5A	1	●			STEAM PAN ADAPTER PLATE	FABRICATED						
6	1	●			WARMING CABINET	FABRICATED		1/2"	1"	3/4" (35,000)		VERIFY GAS CAP. SIZE
7			●		VEGETABLE SINK	FABRICATED	1/2"	1/2"	2"			
8	1	●			STORAGE CABINET	FABRICATED						
9	1	●			SHELF AREA	FABRICATED						
10	1	●			3 COMPT. POT SINK	FABRICATED	(2) 1/2"	(2) 1/2"	(3) 2"			
11	1		●		FOOD CHOPPER	HOBART # 4812					1/2 H.P. 120/1/60	
12	1		●		TACO RANGE	U.S. RANGE # TR-5-48				3/4" (55,000)		
13	1			●	EXHAUST HOOD	FABRICATED						BY HVAC CONTR.
14	1		●		FRYER	SUPER CHEF # FM14P				3/4" (60,000)		
15	1		●		WORK TABLE	FABRICATED						
16	1		●		FOOD SLICER	HOBART # 1712					1/3 H.P. 120/1/60	
17	1		●		STEAMER	FABRICATED				3/4"		
18	1		●		WALK-IN COOLER 7'-0" x 11'-0"	VOLLRATH			1 3/8"		1500 W. 120/1/60	
19	1 LOT		●		SHELVING	FABRICATED						
20	9		●		2 SEAT TABLE	WILSON ART # DESIVE						ASSEMBLED BY G.C.
21	12		●		4 SEAT TABLE	WILSON ART # DESIVE						ASSEMBLED BY G.C.
22	1 LOT		●		SHELVING	FABRICATED						
23	1			●	SERVICE SINK	AMER. STD. "LAKEWELL"	1/2"	1/2"	2"			
24	1			●	SHOWER PAN	AMER. STD.	1/2"	1/2"	1 1/2"			
25	1			●	SERVICE COUNTER	WILSON ART DESIVE						
26	1		●		MEAT RACK							
27	1		●		FRYER SPLASH GUARD	FABRICATED						
28	15	●			TACO PANS W/ LIDS							
29	2	●			TACO DISPENSER PANS							
30	1		●		KOLD DOWN SHELF	FABRICATED						

carlson/seekatz, inc.
ARCHITECTS
5121 W. DEVON AVENUE
CHICAGO ILL. 60646

TACO BELL
(312) 920-5700
825 N. CASS AVE. SUITE 110
WESTMONT, ILLINOIS 60559

REVISIONS
12-14-79

28

BUILDING TYPE
29·54·SJ

TACO BELL JOB NO

JOB NUMBER
79-28

DATE
5-25-79

SHEET NUMBER
EQ-1

79-613

SPECIFICATIONS FOR THE CONSTRUCTION OF A TACO BELL RESTAURANT

OWNER: TACO BELL
17381 RED HILL AVENUE
IRVINE, CALIFORNIA 92715
714/754-7800

825 N. CASS AVENUE
WESTMONT, ILLINOIS 60559
312/920-5700

ARCHITECT: CARLSON/SEEKATZ, INC.
5131 W. PETERSON AVENUE
Chicago, Illinois 60646
312-775-7285

DATE: FEBRUARY 1, 1979

SPECIFICATIONS DATED PRIOR TO THE ABOVE DATE ARE OBSOLETE AND SHOULD BE DESTROYED.

INDEX

SECTION	TITLE
1	Instructions to Bidders
2	Supplementary General Conditions
3	Excavating, Backfilling and Grading
4	Paving
5	Concrete
6	Masonry
7	Structural Steel
8	Drywall
9	Carpentry and Millwork
10	Painting
11	Glass and Glazing
12	Quarry Tile/Ceramic Tile
13	Roofing and Metal Flashing
P	Plumbing
H	Heating, Ventilating and Air Conditioning
E	Electrical
L	Landscape
S	Stucco

NOTE: Any additional trades or items not specifically mentioned herein shall still be subject to the General Conditions and Standards of Workmanship indicated throughout these specifications.

SECTION 1 - INSTRUCTIONS TO BIDDERS

1.1 In General: The Project is to be bid by the Contractor(s) exactly as drawn and specified, and all proposals shall be complete and inclusive of all work as shown and/or specified and as required by all applicable building codes. All Contractors and Sub-Contractors are held to have fully examined all drawings and specifications, not only of their particular concern but of allied trades as well, and to be fully familiar with conditions under which he will assume his work. Particular attention is drawn to the General Conditions and the Supplementary General Conditions of the specifications. The Contract shall be in the form of a single, lump sum of type of agreement

1.2 Proposals: Sealed proposals shall be received by the Owner at such time and place as may be designated by him. Proposals shall be submitted in duplicate on forms provided by the Owner, and shall be enclosed in an opaque envelope, sealed and plainly identified on the outside with the name and address of the project and the name and address of the Contractor. Proposals shall be signed by legally authorized parties of companies only and titles of same shall be stated. The Owner shall retain the right to reject any and/or all proposals.

1.3 Acceptance or Withdrawal of Proposals: Any Contractor who has submitted a proposal to the Owner may withdraw his proposal at any time prior to the scheduled time for opening of same; however, once proposals are opened the Contractor agrees to honor same for a minimum of thirty (30) days after scheduled date of opening.

1.4 Discrepancies: Should a bidder find discrepancies or ambiguities in, or omissions from, the drawings and/or the specifications, or be in doubt as to their meaning or intent, he shall notify the Owner in time to allow for issuance of clarification by means of Addenda for delivery in sufficient time before proposals are due.

1.5 Qualification of Contractors: The Owner reserves the right to require any Contractor submitting a proposal to furnish any or all of the following information.
a) Performance record of projects completed over the previous two (2) years.
b) Address and description of plant or permanent place of business.
c) An itemized list of equipment.
d) Additional information as shall satisfy the Owner that the Contractor is adequately prepared to fulfill all requirements of the contract.

Such information shall be requested prior to the award of the Contract.

1.6 Distribution of Documents: Contractor desiring to bid the work may obtain plans, specifications and supplemental Bidders Package containing a copy of the contract, Contractor's Sworn Statement and Contractor's Buy Out Package Allowance from the office of the Owner. Plans and specifications to remain the property of the Owner and are to be returned to him, complete and in good condition, along with the Contractor's proposal. Use by unauthorized persons for any purpose whatsoever shall be strictly prohibited and is punishable under federal copyright laws.

1.7 Conditions: Submittal of a proposal by any Contractor shall constitute full acceptance by that Contractor of all conditions as herein stated.

1.8 Allowances: General Contractor shall INSTALL the following miscellaneous items, SUPPLIED BY TACO BELL as part of the General Contract.

BRIDGEWATER AND ASSOCIATES, 3339 S. MALT AVE., City of Commerce, California 90040. (213) 725-0700

Stock No.	Qty.	Item
	6	Outdoor Lanterns
C108	1	Safe
C107	3	Wrought Iron Chandeliers

Total, Standard Contractor's Order
**Quantity may vary according to Plot Plan

Please allow three (3) weeks notice for delivery.
The Contractor shall furnish all labor and materials required for unloading, receiving and installation of the above items.

SECTION 2 - SUPPLEMENTARY GENERAL CONDITIONS

2.1 Definitions:
Owner: The Owner shall be defined as Taco Bell, 17381 Red Hill Avenue, Irvine, California 92715, (714) 754-0500 or Midwest Office located at 825 N. Cass Avenue, Westmont, Illinois, 312/920-5700, where used in conjunction with this project.
Architect: The Architect, for the purposes of this project, shall be the firm of Carlson/Seekatz, Inc., Architects, or a representative authorized by them.
Contractor or General Contractor: The person(s), company(ies) or corporation(s) with whom the Owner makes a direct contract for the work or any portion thereof, or for any materials or related services required thereto.
Sub-Contractor: Any person(s), company(ies), or corporation(s) with whom a Contractor makes a contract to furnish labor and/or service and/or material in connection with the project. Within the specifications and working drawings, the term "Contractor" shall be interpreted to mean Sub-Contractor where applicable unless further defined.
Project: The project shall be defined as the complete labor, materials and services required for construction of a Taco Bell Restaurant and all related work as described in the contract documents.
Site: The property on which the project is located.
Contract Documents: The contract documents shall consist of (1) The Building Construction Contract, (2) The General Conditions to the Contract (A.I.A. Form A-201, latest edition), (3) The Architectural Drawings and Mechanical Drawings, (4) The Specifications and (5) The Approved Plot Plan and Approved Landscape Plan. The dates including revision dates of all drawings and specifications shall be included on the proposal form.

2.2 In General: The Standard Form of General Conditions published by the American Institute of Architects (A.I.A. Form A-201, latest edition) shall be binding and the General Conditions included herein shall be supplementary thereto. In the event of conflict the Supplementary General Conditions shall govern.
The contract form shall be the building construction contract between Contractor and Owner where a stipulated sum forms the basis of the contract. Copies of the above forms are on file at the Owner's office.
It shall be accepted as a fact that concerned Contractors have inspected the site prior to submitting their bid and no additional compensation shall be allowed for failure to fulfill this requirement. It is not to be construed, however, that the Contractors have included in their bids amounts to cover unforseen conditions or obstacles other than those indicated on the drawings or visually apparent at the site. Should unforseen conditions arise the Owner shall be notified immediately.
The following specifications are divided into chapters and each Contractor is to figure on that portion with which he is concerned. It shall be the responsibility of each Contractor to read and familiarize himself with the General Conditions and Supplementary General Conditions which shall be considered equally binding with the remaining specifications.
Any controversy or claim arising due to a labor conflict caused by the wording or assignment of these specifications shall be settled in accordance with local governing labor practice.
Whenever an alternate is called for the Contractor is responsible for substituting the cost of materials and labor required to complete alternate installation, and for crediting to the Owner any materials and/or labor not necessary in the alternate proposal.

2.3 Drawings and Specifications: All work shall be executed according to the true meaning and intent of the drawings and specifications which are intended to include everything requisite and necessary for the proper and entire finishing of the work, notwithstanding that each and every item necessarily involved in the work is not specifically mentioned, and the work, when completed, shall be delivered to the Owner in a perfect and undamaged condition without exception.
The drawings and specifications are intended to be cooperative and the work or materials called for by the drawings and not mentioned in the specifications or vice-versa shall be furnished and performed in as faithful a manner as though treated by both
Before submitting his estimate each bidder shall carefully check the drawings and specifications and should he find any conflict, uncertainty, or discrepancy as to his requirements, he shall report same to the Owner immediately, who will make a ruling on each report and will notify all concerned bidders as to his decisions. Should such conflict, etc., be discovered after signing of the contract, it shall be called to the attention of the Owner and his decision in regard thereto shall be final.

2.4 Precedence of Drawings: The order of precedence of drawings shall be as follows:
1) Specifications take precedence over drawings.
2) Larger scale drawings over smaller scale drawings.
3) Figured drawings over scale drawings.
4) Supplementary General Conditions over A.I.A. General Conditions.
5) Architectural drawings over mechanical and electrical drawings.
6) Any addenda over all material of an earlier date.
7) Equipment drawings, as may be provided by the Owner, over architectural and mechanical drawings of earlier date.

2.5 Sales Tax: Each Contractor shall pay all state and local sales and occupational taxes as may be levied by the governmental agencies regarding the work.

2.6 "Or Equal" and "Approved Equal": The terms "Or Equal" and "Approved Equal" shall indicate substitution of item(s) and/or materials and/or methods equal to or superior to those drawn or specified. Any substitution shall be approved in writing by the Owner upon receipt and study of complete information regarding same.

2.7 Materials and Workmanship: Unless otherwise particularly stated, the Contractor shall furnish and install ALL materials and labor mentioned in these specifications and/or shown on the drawings, and all work shall be executed in a neat and skillful manner to the entire satisfaction of the Owner.

2.8 Sub-Contracts: The names of all proposed Sub-Contractors shall be approved by the Owner prior to award of the contract. The Sub-Contractor shall be bound by the specifications. No Contractor or Sub-Contractor shall sublet or assign his contract or any part thereof without the written approval of the Owner.

2.9 Laws and Ordinances: The Contractor(s) and all Sub-Contractors shall comply in all respects with all laws and ordinances having jurisdiction over the work and/or materials or methods employed in performing same. No additional compensation shall be allowed Contractors for failure to familiarize themselves with all conditions under which they will perform their work unless these conditions are brought to the Owner's attention prior to signing of contracts and provision for adjusting costs are made at that time.

2.10 Permits, Bonds, Etc.: The Contractor(s) shall take out and pay for all permits, bonds, etc. Should separate contracts be awarded, each Contractor shall be responsible for permits, fees, bonds, licenses, etc., as may be required by work covered under his portion of the contract. Receipts for same shall be turned over to the Owner upon completion.

2.11 Protection: Each Contractor shall barricade and/or shelter his work as to reasonably protect it from damage. All barricades shall be so arranged as to insure a reasonable visual and physcial warning for workment and the public. Provide flashing type blinkers around open trenches.
The Contractor(s) shall be held responsible for any damage to his work as may be due to negligence of the above, or as may be caused by accident, wind, rain, snow, freezing, riot, malicious mischief, or labor commotion, theft, etc., if due to his acts, omissions or negligence, and shall, if such damage occur, restore the work of its previous condition at no cost to the Owner.

2.11 Protection (Continued):
Contractor(s) shall protect all adjoining property from damage during the course of the work. If required by local laws or ordinances, he shall issue notices to Owner of said property. No use of adjacent privately owned property by any Contractor without written permission by its Owner shall be allowed.

2.12 Insurance: In General, the Contractor(s) and the Sub-Contractor(s) shall maintain such insurance as shall protect him, the Owner and the Owner's agents and representatives from any and all claims under Workmen's Compensation Acts and from all claims for damages because of bodily injury, including death, and all claims for property damage arising from his operations and/or the operations of Sub-Contractors employed by him, and shall be to the amounts as stated herein. Sub-Contractors, if not covered by the Contractor's insurance, shall provide similar insurance of their own.
- "Hold Harmless" Clause: The certificate shall state that this endorsement is included in the policy(ies).
The Contractor assumes the liability for all losses, damages (including loss of use), expenses, demands and claims in connection with or arising out of any injury or alleged injury to persons (including death) or damages or alleged damage to property, sustained or alleged to have been sustained, in connection with or to have arisen out of the performance of the work by the Contractor, his Sub-Contractors, and their agents, servants and employees, including losses, expenses, or damages sustained by the Owner and the Architect. The Contractor hereby undertakes and agrees to indemnify and hold harmless the Owner and the Architect, their agents, servants, and employees, from any and all such losses, expenses, damages (including loss of use), demands and claims, and shall defend any suit or action brought against any of them, based on any alleged injury (including death) or damage (including loss of use) and shall pay all damages, judgments, costs and expenses, including attorney's fees, in connection with said demands and claims resulting therefrom.
The above clause shall apply in all states unless restricted by state statute. Should this be the case, the maximum form of "Hold Harmless" allowed by the law shall be provided.
Workman's Compensation Insurance: Shall be up to date and in force and shall be such as to protect the Owner from any and all claims arising under compensation acts. Such insurance shall cover all employees, and shall be of unlimited, or statutory amount.
Public Liability Insurance: Shall have limits of not less than $250,000.00 for any one person and $500,000.00 for any one accident.
Property Damage Insurance: Shall have a limit of not less than $50,000.00 per accident.
Fire and Extended Theft Coverage: Limits in the amount of contract with no more than $100.00 deductible.
Builders Risk Insurance: Including fire with extended coverage, vandalism, and malicious mischief, shall be maintained by the Owner (see Article 15, A.I.A. General Conditions).
Insurance policies shall be taken out by the Contractor(s) immediately after award of contract and prior to any work being done. Upon obtaining policies the Contractor(s) shall notify the Owner and certificates and/or duplicate policies from insurance companies shall be filed with the Owner showing policy numbers, dates, policies shall be in effect, and all limitations and exclusions. Certificates shall state that the insurance company shall notify the Owner by registered mail ten (10) days prior to the expiration or cancellation of any policy.

2.13 Bonds: A performance bond and a labor/material payment bond, if requested by the Owner, shall be taken out by the General Contractor, and shall be paid for by the Owner in addition to the contract amount unless otherwise agreed to.

2.14 Miscellaneous Services and Temporary Facilities: The General Contractor shall be in charge of the premises from the start to the completion of the building and shall furnish the following:
1) Laying out of all work and establishing general building lines and levels; this to be confirmed with the Owner.
2) Temporary electric power during the period of construction: this does not include portable generators for use of other trades.
3) Heating of building for working and drying purposes during the period of construction.
4) Temporary ladders as required for access to all work.
5) Water for construction use.
6) Acceptance, unloading and storage if found necessary by Contractor's negligence, of Owner's equipment delivered to the site are the responsibility of the General Contractor.

2.15 Inspections and Tests: The Sub-Contractors shall call for all inspections as may be required by local authorities and listed therein allowing a minimum of two days notice for inspections to be made.
Inspection by the Owner shall be specifically required for stake-out and establishment of building elevations and for all plumbing and electrical work occurring under concrete slabs or otherwise buried, as well as any other work specified in the following chapters, prior to concealment of same.
- The Owner has the right to order tests and/or laboratory examination of any material or work used or performed on the project should he suspect such material or work to be of lesser quality than specified herein. The costs of all such tests shall be paid by the Owner unless they indicate work or materials to be of lesser quality, in which case they shall be paid for by the Contractor(s) concerned, along with any expenses incurred in correction of the work.

2.16 Checking Preceding Work: Before starting work each Contractor shall examine work previously installed and shall immediately report to the Owner any visible defects or conditions which would adversely affect the quality and/or completion of his work. It shall be assumed all conditions are acceptable if no such report is received.

2.17 Cutting and Fitting: Each Contractor shall execute all cutting and fitting of his work as may be required by other trades so as to insure as near perfect fit of materials as possible.

2.18 Damaged Work: Each Contractor shall pay for replacement of any work damaged by him or those employed by him in connection with the contract, and such patching or replacement shall be performed by skilled men specializing in that particular trade so as to restore damaged work to completely acceptable condition. Should responsibility for damage be unable to be determined, the cost of repairing same shall be pro-rated among Contractors working on the job at the time the damage occurred as determined by the Owner. The decision of the Owner shall be final.

2.19 Advertising: No advertising shall be allowed without the written permission of the Owner.

2.20 Completed Work: Completed work as called for by the Contract shall be delivered to the Owner free from liens, claims, or encumbances of any description whatsoever against the Owner. Acceptance of such work shall be defined as approval for final payout.

2.21 Maintenance and Cleaning of Premises: Throughout the period of construction each Contractor or Sub-Contractor shall be responsible for satisfactorily maintaining the premises in a neat and clean condition insofar as his respective trade is concerned.

2.21 Maintenance and Cleaning of Premises (Continued):
This shall mean removal of all refuse and debris from the premises.
All equipment and materials shall be stored in a neat manner and as to protect them from any damage from the elements. Building shall be maintained in a generally clean condition during the period of construction and upon final completion a professional service shall be supplied by General Contractor to thoroughly clean all glass, floors, furniture and equipment.

2.22 Guarantee: All labor, materials and equipment required by the Owner-Contractor Agreement(s) shall be fully and unconditionally guaranteed by the Contractor for a period of one (1) year from the date of final acceptance or the date that equipment is put into operation by the Owner, unless otherwise specified in specific chapters herein.

2.23 Work Not Included: The following items, materials or services are not included as a part of the General Contract and shall be supplied as noted.
1) Food Service Equipment: As indicated on the drawings shall be supplied by the Owner and installed by the Contractor including the stainless steel sink.
2) Building Signs: Shall be provided and installed by the Owner.
3) Prefabricated Walk In Cooler and Freezer Units shall be supplied by the Owner and installed by the Contractor.
4) Lakers: The Contractor shall furnish all labor and materials required for unloading, receiving, and installation of items 1 and 2.

SECTION 3 - EXCAVATION, BACKFILLING AND GRADING

3.1 General Statement: The General Conditions and the Supplementary General Conditions chapters shall apply herewith.

3.2 Scope: This Contractor shall furnish all necessary labor, materials, equipment, transportation etc., required to properly clear the site and prepare it for construction of a restaurant as shown on the drawings and as specified herein. For particular site requirements the Contractor should refer to the Plot Plan. Backfilling and grading are also by this Contractor as specified herein. Utility trenching and filling are by others.
Demolition, if required, shall be bid separately but as a part of this contract. Demolition shall include removal of all debris, cutting off of all power and utility lines, removal of foundations to be one (1) foot below finish grades shown on the Plot Plan, removal or filling of all underground tanks (as required), etc. Any salvage shall be the property of the Contractor performing the work, upon receiving written approval from the Owner.

3.3 Materials and Methods:
a) Cleaning and Stripping: The site shall be cleared of all trees, rocks, existing buildings and foundations, sidewalks, curbings, drives, underground tanks, and other obstructions, as may be shown on the property survey and/or site plan, or as may be visually apparent on the site. Black or organic topsoil shall be stripped from all areas of construction and shall be stockpiled at designated locations for future use, or shall be removed from the site if not needed.
b) All lines for locations of the building are to be laid out by the General Contractor and approved by the Owner prior to the start of any work. Excavation for foundations shall be to such depths as is normal, local practice and as may be required by local codes, but in all cases to firm bearing. All excavated material shall be stored in piles at locations most advantageous to later backfilling and rough grading operations or as may be instructed by the Owner. Excess materials shall be removed from the site. Mechanical digging for footings shall be to within 2" of the bottom of the footings as shown, the remaining 2" to be hand dug by others.
c) Backfilling, Filling and Grading: As soon as foundations are complete and have been inspected, this Contractor shall backfill and rough grade the entire site within 8" of finish elevations shown on the site plan. All material shall be thoroughly compacted and uniformly graded to provide proper drainage. Fill under all concrete slabs shall be clean sand or pit run gravel, free from organic material, placed in 6" layers and compacted by means of pneumatic compactors. Finish grade inside building shall be 8" below finished floor.
This contract includes providing and placing all necessary fill except fill noted as "Base Course" fill in the "Paving" specification and backfill for mechanical trenches. All fill supplied under this contract shall be clean clay material carefully placed in 6" lifts and compacted by mechanical tampers to 95% proctor.
d) Finish Grading: Final grades in any areas indicated as landscaped or unpaved areas shall be to grades shown using black topsoil of a minimum depth of 6". If necessary, this contract shall include such material.
e) Cooperation: This Contractor shall cooperate with all other trades affected by his work, particularly those of paving, concrete and plumbing, so as to properly coordinate in properly expediting the project.
f) Special Conditions: Should special, unusual or unforseen conditions such as rock, water, poor soil conditions, etc., which are not covered in this specification, by the original contract, or on the Plot Plan be encountered, the Contractor shall immediately notify the Owner in writing, and shall not proceed with any work affected by these conditions until a satisfactory agreement is reached relative thereto.

3.4 Guarantee: This Contractor shall be responsible for and shall so guarantee all work performed under this contract for a period of one (1) year from date of acceptance, against any settlement or other faults detrimental to appearance or quality of the finished project. This Contractor shall repair and/or replace, or shall pay for repair or replacement, of not only his own work but that of others as well, should such faults occur.

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SECTION 4 - PAVING

4.1 General Statement: The General Conditions and the Supplementary General Conditions chapters of this specification shall apply herewith.

4.2 Scope: This contract includes all required material, labor, equipment, transportation, etc., as required to complete asphalt paving as shown on the Plot Plan, and includes striping and other markings, and precast concrete wheel bumpers as shown.

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4.3 Methods and Materials:
a) Sub-grade: The sub-grade shall be rough-graded to approximately 8" below finished grades shown by others (see Section 3, Excavating). This Contractor shall finish grade for proper drainage and shall compact sub-grade by rolling with a ten (10) ton roller. Any depressions that develop shall be filled and the surface rolled again. The surface shall be dry and well-drained before placing paving, and shall be free of frost, mud, pockets or otherwise unsatisfactory conditions.
b) Base: Over sub-grade lay a 6" thick water bound Macadam base in two courses. First course shall consist of clean, hard, durable particles of crushed limestone graded so that 100% shall pass a 3" ring and not to exceed 5% shall pass a 1" ring. Spread stone evenly without segregation of sizes to such depths as will produce a 4" course after rolling.

Rolling shall begin at edges of drive or area with roller traveling parallel to the longer axis. When edges are thoroughly rolled, rolling shall proceed gradually toward the center of pavement. Continue rolling until stone ceases to creep or wave ahead of roller. Completed work shall not show any irregularities exceeding 1/2" when tested with a ten foot straight edge.

Key heavy stone with finer stone and spread screenings in thin layers in such amounts as will fill interslices of larger stones. Screenings shall be distributed by means of a mechanical spreader and shall be swept and rolled dry continuously during this process.

Immediately after voids have been filled as above, sprinkle surface until saturated. Follow sprinkler with roller and continue addition of screenings, sprinkling, sweeping and rolling until grout formed by screenings and water fills all voids to the satisfaction of the Owner and forms a small wave in front of wheels of roller.

Conduct water binding operation in sections of such extent that each section can be completed in a day's work, leaving no portions partly water bound overnight.

Over first course lay a second course of same specification to form the six inch (6") thick base (compacted thickness).

In geographic areas where bank run gravel, limestone or other free-draining base courses are customarily used for area paving, these methods may be substituted provided the material and method of pavement is detailed and written approval is given by the Owner at the time of original bid.
c) Wearing Surface: Prime surface of Macadam base with asphalt primer and apply a wearing course composed of bituminous binder, sand and fine chips or screenings, plant mixed and delivered to job all ready for use without additional heat. Surfacing material and application thereof shall be Fine Dense Graded Aggregate Asphalt Concrete in accordance with local state highway department specifications.

Place mixture to required depth with uniform grade and roll to a true even surface having a compacted thickness of not less than 2". Dust lightly with sand to protect surface while curing. All asphalt shall be plant mixed.
d) Weather Conditions: Binder or other bituminous material shall not be applied when stone or foundations are wet or when conditions are otherwise unsuitable for good work as determined by the Owner, and by standard practice of the industry.
e) Testing Surfaces: After completion, test pavement with a ten (10) foot straight edge laid parallel with center line of pavement. Any depressions exceeding 1/2" shall be satisfactorily eliminated or pavement relaid.
f) Drainage: When sewer connected drainage or pavement drains are provided it is essential that all paving constructed under this section be accurately laid out and constructed so that water will run off as indicated. When there are no sewer connected drains this paving shall be pitched away from the building toward the property lines and/or drives and/or as may be shown on the Plot Plan or required. All paving must be set 6/10 of a foot below all building walks to protect building from vehicle traffic.
g) Winter Paving: When asphalt plants are closed between the months of December and May, pavement shall consist of a compacted stone base as described herein. In bidding a job, where completion is scheduled to fall in the period when asphalt is not available, the Contractor shall include in his bid the cost of finish grading as rapidly as possible, preparing sub-grade and rolling in a compacted stone base with screenings, penetrating with oil if possible.

He shall also have the responsibility, under the original contract on a winter program, of coming back in the spring, rerolling the stone base, bringing up to finished grade any area that may have become depressed with the spring thaw, and finish paving with two inches (2") (total) of bituminous concrete laid as specified herein.

4.4 Striping: The Contractor's attention is called to standard requirement of complete line striping the parking area as detailed on the Plot Plan. Standard striping shall be highway white. Machine spray two coats first quality traffic paint. In case of a winter construction program, striping shall be installed on the temporary surface prior to the store's opening. This striping will continue to be the responsibility of the General Contractor to be performed again after the wearing course of asphalt is laid in the spring.

4.5 Precast Concrete Car Bumpers: After finished asphalt paving has been laid and line striping completed, precast concrete car bumpers seven feet (7') long with beveled sides shall be provided and installed as indicated on the Plot Plan. These shall be of standard local manufacture and shall be anchored in place with two foot (2') long steel dowels in at least two points.

4.6 Guarantee: This Contractor shall guarantee all work performed by him under this contract against settlement, cracking, crumbling and other defects, unconditionally, for a period of one (1) year after the completion of the work.

4.7 SEALER CONTRACTOR SHALL SPRAY ASPHALT PAVING WITH TWO (2) COATS OF JENNITE SEALER J-16 FIRST COAT SHALL BE SAND SLURRY. INSTALL JENNITE NO EARLIER THAN THIRTY (30) DAYS AFTER PAVING HAS BEEN COMPLETED. PAVEMENT SHALL BE CLEAN AFTER SEALING.

SECTION 5 - CONCRETE

5.1 General Statement: The General Conditions and the Supplementary General Conditions chapters of this specification shall apply herewith.

5.2 Scope: This Contractor shall supply all necessary labor, materials, equipment, transportation and taxes required to complete all concrete work as shown on the drawings and/or specified herein, including foundations, interior and exterior slabs, walks, curbs, and gutters, drive approaches, etc. All plain and reinforced concrete work shall comply with the latest A.C.I. code (A.C.I. 318-71). Excavation is by others except final two inches (2") which is hand excavated by this Contractor (footings and pads only). Depth of footings shall be in accordance with local building practice and applicable codes and regulations.

5.3 Materials and Methods:
a) Layout: This Contractor along with the General Contractor shall stake out the building with all lines and dimensions conforming exactly with those on the drawings. Elevations as shown on Plot Plan refer to bench mark indicated. Any discrepancies in the dimensions shall be reported to the Owner immediately.
b) Cooperation: It shall be the duty of this Contractor to cooperate with all Contractors in the building in the forming of their work. He shall examine the drawings for all structural, heating, plumbing, ventilating, electrical and other mechanical work, and provide openings in concrete for all beams, columns, lintels, pipes, ducts, and other openings required by other Contractors. Sleeves for pipes will be furnished by others. This Contractor shall do all forming required by other openings, except where frames are shown to be provided by others.
c) Concrete and Reinforcing Steel: All concrete shall be minimum 5 1/2 bag mix, 3000 psi at 28 day strength concrete or better per PCA specification. Concrete shall have 6% PCA approved air-entraining agent. No other chemical additives shall be allowed without approval of the Owner. Ready-mix concrete shall be placed in forms within 90 minutes of placement in truck. No retempering of concrete shall be allowed. All concrete placed in adverse weather conditions shall be done so following the recommended practices of the PCA and the Owner.

Reinforcing, unless unforseen conditions arise, shall consist only of welded wire mesh for slabs and sidewalks. Mesh shall be of standard sizes as indicated on the drawings, lapped at edges, and placed approximately 1 1/2" from the bottom of the slabs. Mesh shall be free of rust, scale or other properties detrimental to its use.

Should unforseen conditions arise requiring the use of reinforcing steel bars at walls and/or footings, standard deformed steel reinforcing bars shall be provided and placed in accordance with engineering drawings that will be provided upon request by the Architect.
d) Footings: All footings shall bear on firm, undisturbed soil and shall be accurately located in accordance with the drawings. All loose dirt shall be removed from between form boards. Minimum allowable soil bearing value allowable is 3,000# / sq. ft. Notify Architect before commencing construction, if values are belived to be less.
e) Walls: If poured walls are used they shall be accurately formed directly on top of footings using plastic faced wall forms. Forms shall be aligned and adequately braced prior to placement of concrete. Immediately after placement, walls shall be rechecked and shall be realigned and rebraced if necessary. Concrete shall be placed in such a manner as to avoid segregation of aggregates. Spray inside face of forms with approved form oil just prior to pour. Concrete shall be mechanically vibrated or rodded after placement to assure filling up all corners and other forming configurations and to avoid "honeycombing".

Forms shall remain in place until it is evident that concrete is of sufficient strength to carry loads; but in no case less than 5 days for normal concrete or three days for high early strength concrete.
f) Slabs: All concrete slabs as indicated on the drawings shall have minimum thickness of 4" and shall be reinforced with 6" x 6' #10/10 mesh and shall be placed over a minimum of 4" of pea gravel or "Torpedo" sand.

All underslab fill as required shall be sand or pea gravel and 4" thick. This Contractor may have to do some hand grading to assure proper finish elevations for slabs.

Between fill and slab provide a .006" Visqueen (polyethylene) vapor barrier, lapped 10" at all edges (interior slabs only).
g) Sleeves, Chases, Etc: All sleeves, chases, pockets, etc., as required by various trades and as shown on the drawings shall be accurately installed by this Contractor. Other sleeves, chases, pockets, etc., required by various trades shall be installed and/or provided by this Contractor if information and necessary materials are provided from by concerned trades prior to completion of involved formwork.
h) Perimeter Insulation: In all localities where the winter design temperature is 10 deg. F. or less, this Contractor shall furnish and install one inch thick DOW Styrofoam SB perimeter insulation as shown on the drawings. Design temperature information is available from local heating Contractors or building authorities.
i) Expansion Joints in Walks and Curbs: Provide and install 1/2" premolded expansion joints as detailed on the drawings (maximum spacing 20'C').
j) Light Pole Bases (Where shown on the Plot Plan): Shall be poured concrete bases as detailed on the drawings and shall be by this Contractor. After removal of forms, clean and wash exposed surfaces of bases with cement wash.
k) Finishes: Interior slabs to receive ceramic or quarry tile shall be floated level and true and left ready to receive finish material.

Exterior slabs and walks shall be floated true to line, properly pitched for drainage, and finished with a fine textured, uniform, soft broom finish. Score walks neatly at 4'-0" intervals maximum.

SECTION 6 - MASONRY

6.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are part of this contract.

6.2 Scope: This contract includes all necessary labor, materials, transportation, taxes, equipment, etc., as required to complete all masonry work as shown on the drawings or as specified herein.

6.3 Cooperation: This Contractor shall thoroughly examine all other drawings so as to familiarize himself with the work of the other trades which shall affect his work. Particular attention is called to the mechanical drawings. He shall cooperate with other trades in building in such items as chases, pipes, etc., as may be required by their work.

6.4 Materials:
a) Mortar: Type M, ASTM-C-270-68 colored to match concrete slumpblock. Do not use slag cements.
b) Slumpblock: Slumpblock structural block as manufactured by General Concrete Products or Taco Bell approved equal, size as noted on plans, color shall be tan.
c) Wall Reinforcing: Dur-O-Wal No. 8 truss design masonry wall reinforcement shall be installed spaced 16" o.c. vertically.
d) Grout: Grout shall consist of one part Portland Cement, 3 parts sand and 2 parts 3/8" pea gravel. Water shall be added to produce a consistancy suitable for pouring. No more than 7-1/2 gallons of water per sack of cement.

6.5 Storage of Materials: All mortar materials shall be stored under cover in a dry place. During freezing weather all masonry units shall be protected with tarpaulins or other suitable materials. Reinforcement shall be protected from elements and, before being placed, shall be free from loose rust and other coatings, including ice, that will destroy or reduce the bond.

Slumpblock shall be stored clear of the ground and in such a fashion as to prevent any staining or discoloration.

6.6 Workmanship:
a) General: All walls and piers shall be laid up straight, level and plumb between two lines, with full troweled bed joints and shoved side and end joints, and with all open joints fully flushed up, and all voids located in accordance with the drawings. Accurately locate all openings as shown and/or required, and completely seal around all pipes, beams ducts, joists, and/or other perforations of the wall so as to eliminate sound transmission. Pipes and conduits in walls shall be concealed wherever possible.

Metal door frames shall be furnished and set by others, anchored to wood framing; this Contractor to set in outer face solidly and neatly.

All exposed joints, after sufficient setting up, shall be raked 1/4" deep maximum, both horizontally and vertically.
b) Sleeves and Chases: Provide all chases, recesses or openings for pipes shown or indicated on the drawings of ample size to receive the work for which they are intended. Build in any sleeves as may be provided by others.
c) Lintels, Bolts, and Miscellaneous Loose Steel Plates: As shown on the drawings and embedded in masonry, shall be provided and installed by this Contractor as shown. Lintels shall be fully bedded in Portland cement, mortar, brought to proper level, and shall have a minimum of 4" bearing on each end.

6.7 Protection of Work: All masonry walls, at the end of daily work or when not being worked on, shall be well protected and covered from the elements. Wherever necessary, brace all green walls in an adequate and substantial manner.

6.8 Adverse Weather Conditions: No masonry work shall be performed with the temperature below 32 degrees F. and, when masonry is laid when the temperature is 40 degrees F. or less, all materials shall be heated and properly and adequately protected from freezing until the mortar is set. No additives such as anti-freeze shall be used.

When the temperature is above 80 degrees F. all masonry units shall be thoroughly wetted before use.

6.9 Flashing: Provide and install three ounce copper Sisalkraft or Wasco or approved plastic type flashing wherever shown on the drawings.

6.10 Cutting and Patching: The Contractor shall do all cutting and patching or pointing of the work installed by him that may be required in the installation of the work or to accommodate the work of other Contractors.

All of this cutting and patching work shall be executed in a neat manner, and so as not to mar the appearance of the finished work.

6.11 Cleaning and Pointing: All work shall be cleaned upon its completion as specified herein.

All masonry shall be brushed with a stiff fiber brush (wire brush is not permitted), and all joints shall be pointed up. After dry-brushing and pointing of joints the surfaces shall be cleaned with water and an approved detergent compound and thoroughly flushed with water.

6.12 Cleaning Up: Upon completion of his work, this Contractor shall thoroughly clean up the premises of any and all debris left as a result of his work, including extra masonry, sand, etc. Paper containers, etc., emptied during the course of the work shall be piled and burned in an area designated by the General Contractor.

SECTION 7 - STRUCTURAL STEEL

7.1 General: The General Conditions and Supplementary General Conditions chapters shall apply herewith.

7.2 Scope: The contract shall provide structural steel shown on the drawings and/or specified herein. Structural steel in this section of the specification is defined as, furnishing, fabrication, and erection of all steel elements required for the support of the structure, including framed lintels. These are shown and identified as to their size, unit weight and location on the drawings. This contract includes rolled steel sections, structural steel supporting structures, etc., providing for the installation of other work as may be required and shown.

7.3 Materials: Materials furnished under this section for installation by others wall bearing plates, setting plates, and anchor bolts shown and identified are on the structural portions of the drawings.

7.4 General Requirements: Material, design, fabrication and erection of structural steel--in accordance with the requirements of the A.I.S.C. "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings", adopted February 12, 1969 and "Code of Standard Practice" adopted by A.I.S.C., 1924 and revised July 1, 1970, except as superseded and added to by the local building ordinances, A.S.T.M. designation for material used as shown in general notes on drawings.

7.5 Connections: Beam connections shall be designed to support loads shown on the drawings or half the total uniform capacity tabulated in the tables for "Allowable Loads on Beams" in the A.I.S.C. specifications 1969 edition.

Shop connections--bolted or welded as approved by the engineer and designed in accordance with section 1.15 of the A.I.S.C. specifications 1969 edition.

High strength bolts with special tempered washers meeting the requirements of A.S.T.M. A325 shall be used. Bolts 3/4 inch unless otherwise shown on the drawings. All holes shall be 1/16 inch larger than bolt. Columns milled to give full bearing over the cross section. The welding shall be only by operators qualified to work in accordance with requirements of the American Welding Society standards latest publication shall be employed, A.S.T.M. A-233 Class E-60 and Class E-70 series electrodes for manual arc welding and grade saw-1 or grade saw-2 submerged arc process shall be used for welding A-36 steel, beams, girders and columns. All welds made in field shall be repainted to match shop painting.

7.6 Shop Painting: Before leaving the shop, steel work herein specified, shall be thoroughly cleaned of all loose mill scale, rust and foreign matter, and given one shop coat, as per manufacturer's recommendations, applied thoroughly, evenly, and well worked into joints and open spaces. All paint shall be applied to dry surfaces.

7.7 Storage of Fabricated Steel at the Job Site: Material stored at the job site shall be so placed that no members shall be damaged and shall be protected against corrosion or deterioration of any kind. The Owner reserves the right to reject any material that has become damaged because of improper storage.

7.8 Erection: Work shall be erected as progress on the job will permit and shall be set accurately to the lines and levels established by the drawings. Structural Steel Contractor shall work in close cooperation with the General Contractor and other Sub-Contractors.

SECTION 8 - DRYWALL & ACOUSTIC TILE

8.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are a part of this contract.

8.2 Scope: This contract shall include all necessary labor, materials, equipment, transportation, services and taxes necessary to complete the installation and finishing of drywall as specified herein. This includes furnishing of all metal corner beads and other accessories as required by the general details of the drawings or work, or as may be shown.

8.3 Materials and Methods of Installation: All drywall as shown shall be standard tapered edge gypsum board as manufactured by the U.S. Gypsum Company, the National Gypsum Company or Bestwall. Installation of the material shall be either nailed, nailed and glued, or screwed; however, any installation method shall be in strictest accordance with the manufacturer's instructions and specifications for the installation of materials. All drywall shall be Firecode bearing U.L.A. label of 5/8" thickness as shown on drawings except for toilet rooms which shall be 5/8" thick water resistant sheetrock "Greenboard".

8.3 Materials, and Methods of Installation (Continued):

Materials shall be stored in the building for a minimum of 24 hours prior to use, and all materials as well as surfaces to which they are to be applied shall be in a dry condition. Building temperature shall have been maintained at not less than 65 degrees F. for a period of 48 hours prior to installation of any gypsum board. Material to be installed on walls shall be installed horizontally. End joints shall be staggered in all cases. Drywall shall be finished using the standard U.S. Gypsum three-coat Perf-A-Tape joint system in accordance with the latest specifications published by the U.S. Gypsum Company.

Prior to doing any work, this Contractor shall inspect all surfaces with which he will be concerned, and should he find any conditions which he feels will be detrimental to his turning out a first class job, he shall report such conditions to the Owner before beginning any work. Starting work under this contract constitutes acceptance of condition of the base.

8.4 CLG. TILE SHALL BE AS SPECIFIED ON DRAWINGS.

SECTION 9 - CARPENTRY AND MILLWORK

9.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are a part of this specification.

9.2 Scope:
a) General: This section shall include the furnishing of all labor, materials, equipment, services, etc., necessary for and incidental to the completion of all rough and finish carpentry work, millwork, installation of rough and finish hardware, and all other items as may be specified herein. This Contractor shall also include the installation of all items indicated as being provided by the Owner. The Carpentry Contractor shall consult the drawings and specifications of the other trades doing work in connection with the carpentry trade, and shall advise the General Contractor (if other than himself), so as to properly coordinate and complete the installation of their work, and to best expedite the project as a whole. Any carpentry work or materials which are not specified under other section headings, and which are necessary to or required for the completion of the work, shall be done by this Contractor.

9.3 Cooperation: When work under this section connects with work of other trades, the Carpentry Contractor shall do all necessary cutting and fitting so as to leave the entire work in a finished condition. He shall furnish labor and materials to the furtherance of this end, whether or not distinctly shown or specified. Particular attention shall be paid to the requirements of the various mechanical trades.

9.4 Framing and Rough Carpentry: This includes all materials and labor for installation of same for sheathing, stripping, wall studs, joists, etc., as indicated herein and other than as specified under Millwork. Framing is to be securely anchored, bolted, spiked, nailed, screwed, or otherwise assembled to insure rigidity. Provide temporary bracing as required during construction. Provide all other plates, Teco hangers, bolts, frames, anchors, etc., as required.
a) Headers and Similar Structural Members: Shall be construction grade (f=1500 psi) with 25% standard grade (f=1200 psi) allowed, Douglas Fir, Western Hemlock or Southern Pine. Material shall have a moisture content of less than 19% at time of surfacing and shall be grade marked "Dry".
b) Studs and Miscellaneous Members: Shall be S4S Douglas Fir, Southern Pine, White Fir or approved equal, of nominal sizes shown, maximum moisture content 19% at time of grading.
c) Wood Grounds, Stripping and Blocking: Shall be provided accurately located and rigidly secured as required for receipt of all finished work requiring same.

9.5 Insulation: Full thick fiberglass insulation batts with foil back vapor barrier, stapled between all roof joists carrying clay tile roofing.

9.6 Caulking: Thoroughly caulk wherever shown on the drawings or necessary to insure weathertightness. Blind caulk wherever possible. Caulking in general shall be silicone, gun grade, as manufactured by General Electric. Color shall be bronze, or to best match adjoining materials, where exposed.

All caulking materials shall be installed in strict accordance with the manufacturer's specifications and recommendations.

9.7 Rough Hardware: This includes all bolts, nails, anchors, spikes, miscellaneous fasteners, as may be required. All rough hardware as defined herein is to be included in the base contract. Trim shall conceal hardware. Exposed exterior nails shall be galvanized.

9.8 Finish Hardware: Finish hardware shall be included as specified in the hardware schedule. Acceptable alternates would include Yale, Sargeant, Corbin or Ruswin. All exterior doors shall be fully weatherstripped.

9.9 Cutting and Patching: This Contractor shall cut and patch as required for the installation of work of all trades and shall work in conjunction with these trades.

9.10 Temporary Doors and Enclosures: Cover all exterior openings with plywood, securely installed so as to discourage entry by unauthorized persons, during the course of construction. Exterior doors as may be selected by the Contractor shall be provided with hinged operating door and construction lock for use during the period of construction.

When weather conditions or status of finishing operations in buildings so require, provide temporary closure of window openings. Closure shall be of such type and material as may be necessary to protect interior from frost, rain, excessively drying wind or other climatic conditions which will be detrimental to building or its contents. Permanent closures of openings may be installed provided that these are protected at all times and left in perfect condition when building is completed.

9.11 Temporary Bracing: The Contractor shall provide and maintain temporary bracing as required for window framing, metal door buck, wood framing and similar work during the course of construction.

9.12 Metal Door Frames: As shown on the door schedule shall be 5-3/4" x 2" x 16 ga. steel frames as detailed on drawings. Frames shall have integral 5/8" stops and shall be factory painted with one prime coat of rust inhibitor paint. All frames shall be installed plumb and true.

9.13 Millwork: Shall include all exterior and interior woodwork and doors exposed to view in finished building, except lumberyard or specialty items. All millwork shall conform to A.W.I. specifications and recommendations. The Contractor shall familiarize himself with room finish schedule.
a) Interior Wood Trim: Shall be of standard shapes as shown and/or required, and shall be clear white pine or Ponderosa Pine.
b) Wood Doors: As listed in the door schedule, shall be as manufactured by Weyerhaeuser Company (Roddis standard), or United States Plywood Corp., (Weldwood staved lumber core), and shall have a minimum guarantee of two years from time of install...

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c) Wood Shelving: Shall be 1" nominal Pine or Spruce, clear, including Sapwood, to receive paint for shelves 11 1/2" wide or less; for shelving 12" wide, or wider to receive painted finish use 3/4" interior grade A-B Douglas Fir plywood with solid wood edge strips; laminate covered shelving shall be 3/4" interior grade plywood or particleboard with formica edges. Front Countertop and desk shall be covered with Wilsonart D58 VF Burnt Orange.

9.14 Installation in General:
a) Finished work shall be erected plumb, true, square and in accordance with the drawings.
b) Finished work shall be blind nailed insofar as possible and surface nails shall be set. Work shall be securely nailed to studs, nailing blocks, grounds, furring strips etc.
c) Doors shall fit without binding.
d) Hardware for doors and windows shall fit so that they will close without forcing and so as to prevent any rattle. Hardware cuts shall be true and neat.
e) Where woodwork is required to be attached or connected directly to masonry and other hard surfaces, secure same with screws or expansion bolts and plugs or shields in a manner to provide a rigid, permanent and neat support.
f) Countersink screws and bolts and putty up holes where same are exposed.

9.15 Protection of Finished Work: This Contractor shall take adequate precautions to protect finished work, particularly woodwork and finish hardware, during the course of construction.

9.16 Refitting and Guarantee: After the building is completed this Contractor shall examine all doors and other movable parts and shall put them in perfect operating condition and shall so maintain them for a period of twelve months after acceptance of the work. The Contractor shall furnish a written guarantee, warranting all work against defects in workmanship and materials for one year after acceptance.

9.17 Rubbish and Cleaning Up: Upon completion of the various portions of the work the Contractor shall remove from the premises, or as may be directed by the Architects, unused materials, rubbish and other debris resulting from the execution of the contract.

9.18 Installation of Miscellaneous Equipment Supplied by Owner: General Contractor is responsible for assembly and installation of all Owner's equipment that has been noted on drawings.

SECTION 10 - PAINTING

10.1 General Statement: The General Conditions and the Supplementary General Conditions of this specification apply herewith.

10.2 Scope: Include all labor, materials and other equipment necessary for the completion of all painting and finishing work required by the drawings and as specified herein. All exposed surfaces occurring in finished spaces and on the exterior of the building shall be finished as a part of this contract, whether specifically noted or not.

Examine specifications and drawings for the work to be performed by the other trades and so as to be thoroughly familiar with areas and items requiring finishing.

This Contractor shall be responsible for inspecting the work of others prior to beginning any work under this contract and any surface which cannot be put in proper condition for finishing by customary cleaning, sanding and puttying operations shall be immediately reported to the Owner in writing, or this Contractor shall assume responsibility for and rectify any unsatisfactory finish resulting therefrom.

10.3 Cooperation: The painting shall be performed as soon as the various surfaces are ready and as rapidly as is consistent with good work. This Contractor shall cooperate at all times with the Contractors furnishing other work in the building.

10.4 Storage of Materials: The Painting Contractor shall arrange with the General Contractor to set aside room or space to be used for storage and mixing of paints and nothing else. Such storage place shall be kept neat and clean and all damage thereto or to its surroundings shall be made good by the Painting Contractor. All soiled or used rags, waste and trash must be removed from the building every night, and every precaution taken to avoid fire.

10.5 Materials:
a) Unless otherwise approved, materials shall be of the proper type as produced by one of the following manufacturers: Pratt & Lambert, Inc., Detroit Graphite Company, Rustoleum Corp., Martin-Senour, Devoe & Raynolds Company, Inc., Benjamin Moore & Co., O'Brions, United States Gypsum Company, Sherwin Williams, or Dutch Boy.

Above materials shall be delivered in original, unbroken containers; other materials such as linseed oil, shellac, turpentine, etc., shall be pure and of the highest quality and shall bear identifying labels on their containers. Colors shall be as shown and the Contractor shall supply samples of colors to the Owner if requested.
b) Materials used shall be exactly as specified in brand and quality; no claim as to the unsuitability or unavailability of any material specified, or to unwillingness to use same, or of inability to produce first-class work with same, will be entertained unless such claims are made in writing and submitted with the bid.

10.6 Mixing: Prepared materials shall be applied in the consistency manufactured and shall not be thinned or adulterated. Paint shall be mixed on the premises in sign receptacles which shall be clean and of ample capacity. Floors, walls and other permanent parts of the building shall be protected from spattering, dropping, and staining from paint, oil, etc.

Paints shall be tinted as recommended by the manufacturer. Turpentine or Japan Drier shall not be used to hasten drying unless permitted by the Owner.

10.7 Workmanship:
a) Workmanship shall be the very best; only skilled mechanics of experience and known ability shall be employed.
b) Finished materials shall be applied only to clean, warm, dry surfaces that have been properly prepared for finishing by this Contractor and, where necessary, rust, grease, excess mortar, etc., has been removed by wire-brushing or washing with an acceptable solvent. Care shall be taken to avoid painting surfaces while they are exposed to hot sun or if they shall be exposed to freezing conditions before the paint has had ample time to dry.
c) All galvanized steel surfaces shall be pre-treated with proprietary acid-bound resinous or crystalling zinc phosphate preparations, used according to manufacturer direction prior to painting.
d) All finish woodwork and millwork shall be sanded prior to the first coat and after every coat thereafter. Nail holes, cracks, and other defects shall be puttied flush with adjoining surface with putty of a color to match that of the finish after the first coat.
e) All materials shall be applied under adequate illumination, evenly spread and smoothly flowed on without runs or sags so as to provide an even, smooth, uniform surface.
f) Tops, bottoms and edges of doors shall be finished the same as the balance of the door after they are fitted by the carpenter.
g) This Contractor shall protect his work at all times and shall also protect all adjacent work and materials by suitable covering or other methods in the progress of his work. Upon completion of his work he shall remove all paint and varnish spots from floors, glass and other surfaces. He shall remove from the premises all rubbish, debris and other accumulated materials of whatever nature caused by his work, and shall leave his part of the work in a clean, orderly and acceptable condition.

10.8 Exterior Painting:
a) All surfaces shall receive two coats of paint unless otherwise noted.
b) Metalwork: Rear doors, drain pipes, and posts - Sand #171-32 Dutch Boy Premium Lat-x Low Sheen Enamel.
c) Exposed Wood: Rafter tails, soffits, bell yoke, and outriggers - Rusty Brown #175-39 Dutch Boy Exterior Latex Stain.
d) Wrought Iron: Outrigger lanterns, post lamps - Black High Gloss Enamel.
e) Bell: Fiberglass bell - Gold #109-43 Dutch Boy Premium Dry Swift Enamel.
f) Wooden Tumbling Blocks: All lettering shall be: Tulip Yellow #2840 Dau's Styletone Paints.
g) Wooden Tumbling Blocks Background:
#107-58 Dutch Boy Premium Enamel, Chinese Red - T in Taco and B in Bell
#107-88 Dutch Boy Premium Enamel, Garden Green - A in Taco and E in Bell
#107-54 Dutch Boy Premium Enamel, Bright Orange - C in Taco and First L in Bell
#107-76 Dutch Boy Premium Enamel, Royal Blue - O in Taco and Second L in Bell
h) Pole Sign: Pole Sign shall be: Canary Yellow
i) Metal Trash Barrels: Barrel shall be Tulip Yellow #2840 Dau's Styletone Paint. Lid shall be Orange #2740 Dau's Styletone Paint.
j) Exterior Dining Areas: Curbing and patios - Tile Red #103-52 Dutch Boy Premium Porch and Floor Enamel - To be bid as an alternate.
k) Parking Lot Light Standards and Bumper Posts - White #107-10 Dutch Boy Premium Enamel.

10.9 Interior Painting:
a) Interior Painting: Finish coating of drywalls and ceilings, and miscellaneous woodwork shall be painted two coats of paint as specified.

Defects in shop priming coats, spot prime in field and spot prime welds, rivets, spacers and bolts as required, shall be painted with ferrous metal and steel primer. Rust control A37-R17.

All exposed concrete block walls in kitchen and utility areas shall receive one coat of "Blockfill" and two coats of white semi-gloss enamel.
b) Walls and Trim: Walls, interior, doors, shelves, evaporative cooler vents, order boards, walk-in cooler (if touch up is required), and pipes - Dutch Boy High Gloss Diamond White Enamel.
c) Equipment (if touch up is required): Stove, fryer, ice machine - Light Grey #103-61 Dutch Boy Premium Porch and Floor Enamel.

[illegible] Exterior Waterproofing: [illegible] exterior masonry block shall be sprayed with two (2) coats of [illegible] FILM water repellent. [illegible] shall be applied by a low pressure spray unit, flooding the surface to the point of maximum absorptions as indicated by a rundown of eight inches (8") to twelve inches (12")

SECTION 11 - GLASS AND GLAZING

11.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are a part of this contract.

11.2 Scope: Aluminum entrance doors, frames, transoms, sidelights, trim mouldings, and other related items shall be as detailed drawings and as manufactured by "Architectural Products Division", Terrell, Texas - a division of Howmet Corporation.

11.3 Material: Door members shall be extruded architectural aluminum alloy 6063-T5. Wall thickness of all door sections, except glazing beads, shall be .125" minimum. Wall thickness of frame members, except glazing beads, and glazing pockets, shall be .125" minimum. Screws, nuts, washers, bolts, rivets, and other fastening devices shall be aluminum, stainless steel, or other non-corrosive materials.

11.4 Hardcoat Finishes: All exposed aluminum surfaces shall be given an anodic coating of not less than .0007" thick Kalcolor Amber.

11.5 Door and Frame Construction: Door stiles and rails shall be tubular sections accurately joined at corners with heavy concealed reinforcement brackets secured with bolts and screws, and shall be MIG welded. Doors shall have snap-in stops with bulb glazing vinyl both sides of glass for puttyless glazing. No exposed screws shall be permitted. Each door leaf shall be equipped with an adjusting mechanism located in the top rail near the lock stile which provides for minor clearance adjustments after installation. A hard-backed poly-pile weatherstrip shall be installed in the hinge stiles of pairs or single center hung doors. The lock stile of a single center hung door, or center hung doors shall have an adjustable astragal weatherstrip. Frames shall be accurately joined at corners with unexposed screws in extruded splines, which are an integral part of all horizontal members.

11.6 Standard Hardware: Single acting doors shall have Adams-Rite Maximum Security Deadlock, PH-1 Pull Handle and PB-1 Push Bar. Single acting doors requiring overhead surface mounted closers shall be furnished with Top and Bottom Offset Pivots.

11.7 Arched Window Frames: Window Frames shall be of 3/16" x 1-3/4" aluminum bar stock accurately formed to the radius as shown on the drawings. The frames shall be jig formed and delivered to the job site suitably braced and protected for installation and glazing. Glass shall be installed with vinyl glazing beads and 1/2" x 5/8" aluminum applied stops both sides of glass.

11.8 Aluminum Cover Plates: Provide .060 sheet aluminum cover plates over all wood columns, mullions, and storefront as shown on the drawings. All exposed surfaces shall be given an anodic coating of not less than .007" thick Kalcolor Amber.

11.9 Erection: All openings shall be prepared plumb and square by others and shall be of sufficient size to provide 1/4" clearance at jambs and head (and sill as required) of frames. Installation, glass and glazing shall be performed by experienced technicians, according to the manufacturers recommended procedures. All units shall be securely anchored and ready for operation. All frames shall be set against 1" diameter neoprene rope and caulked with bronze silicone caulk as detailed.

11.10 Cleaning: Upon completion of construction the General Contractor shall be responsible for cleaning all aluminum, employing methods recommended by the manufacturer as follows: Aluminum shall be cleaned with plain water containing a mild detergent, or a petroleum product such as white gasoline, kerosene or distillate. No abrasive agent shall be used.

SECTION 12 - QUARRY TILE/CERAMIC TILE

12.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are a part of this contract.

12.2 Scope: The Contractor for the tile work shall furnish all labor, materials, tools and equipment, deliver, install, and finish all ceramic tile work. Refer to the drawings and finish schedule for areas requiring quarry tile.

12.3 Materials: All quarry tile shall be 6" x 6" x 1/2" standard grade V-Bak quarry tile, around four sides after firing as manufactured by the American Olean Tile Company, Lewisport, Ky. [illegible] Tile shall conform to ANSIA-137, 1-1967 and Federal Specification SS-T-308c. Base shall be 4" x 6" x 1/2". All base shall be COVE to match tile.

12.4 Color: All quarry tile and base shall be as indicated on the architectural drawings.

12.5 Applications: Mix mortar as per manufacturer's directions. Cover evenly with no bare spots. Comb mortar with notched trowel within ten minutes of applying tile. Grout when tile is firmly set - no less than 24 hours. Cure grout by keeping damp for at least 72 hours. Acid-And Alkali-Resistant Grout Tile Council of America, Inc., formula AAR-11, acid-and alkali-resistant grout shall be used. Color shall be black.

[illegible] FORMULA F 5-R DRY SET MORTAR AND LATEX [illegible]

12.6 Ceramic Tile: For interior walls shall be 4 1/4" x 4 1/4" pre-grouted [illegible] white #47 American Olean set in strictest compliance with manufacturer's specifications and recommended installation procedure. Tile joints shall be grouted with ceramic grout, color: white. Grout joints shall be moist cured. See drawings for color. (Base to be quarry tile).

12.7 Workmanship: All ceramic and quarry tile to be installed conforming to American National Standards Institute specification A108.3. Mixing data. The mixing data is on a volume basis.

SECTION 13 - ROOFING AND METAL FLASHING

13.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are a part of this specification.

13.2 Scope: This contract shall include all necessary labor, materials, services, equipment, transportation, taxes, etc., as required for the completion of all sheet metal work, roofing and their installation as shown on the drawings and specified herein. Sheet metal work shall consist of flashing, counter-flashing, gravel stops and pitch pans as required by the drawings.

13.3 Workmanship: All work shall be performed in a cooperative manner by the trades concerned with this section so as to assure a weathertight roofing membrane. All workmanship shall be in accordance with the best trade practices and shall comply with the manufacturer's recommendations.

13.4 Materials and Methods:
a) Flashing: Shall be galvanized sheet metal (minimum 24 ga.) or other material as shown. Details shall allow for expansion and assure weather-tightness. Solder all corners of galvanized flashing.
b) Mission Tile Roof:
1. Tile: Lawowici-Celadon [illegible]
   a. Fittings: Short course, top fixtures, eave closures (bird stops) 3/4" with cover for rake, 8" boosters.
2. Nails:
   a. Non-corrosive (preferably copper) 11 gauge, large head, length to give proper penetration. On plywood, use ring type nail, point should just penetrate underside of deck. On board, use slaters nail of at least 1 1/2" but do not penetrate underside of deck.
3. Felt: 43# per square asphalt impregnated roofing felt.
4. Cement & Mastic:
   a. Mortar
   b. Mastic - ASPHALTIC-non-running heavy body plastic cement composed of asbestos fibers, asphalt and other mineral ingredients. Sealant - Silicone ASTM-D-1002 or ASTM-E-42.
5. Wood Strips: Provide 1 x 4 in. strips under cover tile and 1" stringers of necessary height under hip roll and Ridges (height varies with roof pitch).
c) Installation:
   1. [illegible] parallel [illegible] in 6 Courses.
   2. Work from right to left. [illegible] tile [illegible] straight [illegible] angles to eave, spaced 3'. Fasten on [illegible] 1, 2, or 3 nails as required in each tile or fitting.
   3. [illegible]

135 PRICING & AVAILABILITY: THE ROOFING CONTRACTOR SHALL OBTAIN PRICE FOR GANDRUD TOUCHWELL ROOFING EXCLUDE FROM L. [illegible] CELADON 201 N. TRUMAN CHICAGO, IL 60612 312/722-7700.

d) Vapor Barrier: Shall consist of one layer of 15# asphalt saturated felt uniformly mopped to the deck with a minimum of 25 lbs of asphalt per square. This felt shall be turned up, but not cemented to, all vertical surfaces to a height of 6" and shall overhang all roof edges a similar amount.

e) Flat Roofing: Shall be Johns-Manville Company spec. #601, or Bird spec. C-3-MP gravel surface built-up roof, or approved equal. All roofing materials shall be installed with the strictest adherence to the manufacturer's specifications. Prior to installation of the built-up roof, this Contractor shall inspect the area with which his work shall be concerned and shall report any conditions which he feels will be detrimental to the finish product to the Owner immediately. The laying of any material by this Contractor shall be considered as an indication of the acceptance of the base by him, both horizontal and vertical.

The base roofing ply shall extend a minimum of 12" beyond edges of roofing as shown; succeeding roofing plys shall be installed and the base ply turned back and mopped into place enveloping other plys. Metal flashings, etc., shall be "stripped in" with two plys of 30 pound felt, minimum 10" wide, mopped in place.

f) Flat Roofing (Continued):
This Contractor shall take particular care to protect finished work and materials during his work to prevent any damage to same, particularly as may be caused by hot asphalt. Should asphalt drip or be spattered on other work, this Contractor shall restore the damaged areas to their original condition.
g) Cleaning Up: During his work this Contractor shall pile all debris, papers, etc., created by his work. Upon completion he shall remove any excess materials or debris created by his work.

13.5 Guarantee: This Contractor shall guarantee in writing, unconditionally, for a period of two (2) years from the date of acceptance of the work, all roofing and flashing to be watertight and free from leaks.

SECTION P - PLUMBING

P.1 General Conditions: The General Conditions and the Supplementary General Conditions chapters of the specifications shall apply herewith.

P.2 Scope: Contractor shall furnish all labor, materials and equipment necessary for a complete and operable installation of water, sanitary and storm sewer systems, including waste and vent piping, water service, meter, tap, valves and boxes, cold water piping, hot water piping, all gas piping, water heater, plumbing fixtures and fittings, and all related controls, fittings and appurtenances, connecting of all equipment provided by the Owner and all other work as required by the drawings and specifications. Should special engineering drawings be required to complete connections, with city utilities, their cost shall be included as part of this contract, as well as all work included by them.

Plumbing Contractor is cautioned to pay strict attention to drawings and specifications for connecting equipment provided by the Owner, and shall include all materials and labor for this work. Furnish and install all necessary fittings and materials as required to comply with local codes and job conditions.

This contract shall include all required utility trenching as well as sand backfilling of same for work covered herein.

P.3 Permits and Inspections:
a) All work shall be installed in strict accordance with State, County and Municipal Ordinances and Regulations. The Contractor shall report any discrepancies between the drawings and any governing ordinances and regulations to the Owner at the time of bidding. Upon submitting his bid, the Contractor shall be held responsible for all costs incurred for providing additional work required due to local ordinances and regulations.
b) All permits and fees shall be applied and paid for by this Contractor, including all required inspections for water, gas and sanitary and storm drainage systems including required meters, taps to mains and connections to sewers.

In areas where sewers are not available the General Contractor will be furnished a set of sewage disposal drawings prepared by Owners engineers. All costs for permits, installations and inspection of system shall be included in Plumbing Contractor bid. All work shall be in conformance with local codes.
c) Dimensions for all underslab piping are critical for later equipment installation. Contractor is therefore cautioned to pay particular attention to Sheet P-1 of the drawings and cross reference all drawings in his work including the elevations showing dimensional location of all work.

d) Tests: This Contractor shall run tests on all supply and waste piping prior to concealment or burial in concrete slabs, walls, etc. Waste piping is to be tested by capping or plugging all lower openings and filling entire system to the top of the vents with water and this allowed to remain for at least 30 minutes. Water piping shall be tested by means of maintaining 75 psi of air pressure within the entire system for a period of not less than 15 minutes. The Owner shall be supplied with the results of all tests in writing.

P.4 Materials:
a) Water Supply Piping: Water piping above grade shall be type "L" hard copper tubing, below grade shall be type "K" soft copper. Solder shall be 95-5 type. No alternates to above will be permitted.

Piping shall be of minimum sizes indicated on the drawings; however, mains shall generally be 3/4" with 1/2" or 3/8" branch piping to fixtures and equipment, or in accordance with local code. Standard air chambers, 20 times pipe diameter in length and one size larger in diameter, shall be provided at all fixtures and as required elsewhere in accord with good practice. Exposed piping in finished rooms shall be chrome plated brass piping of iron pipe size.

All hot water lines and all lines in unheated spaces shall be insulated with 1/2" thick B.F. Goodrich or U.S. Rubber flexible insulation tubing. All piping passing through concrete shall be wrapped with plastic tape. No joints in water piping will be permitted below slab.
b) Water Service shall be complete with meter; trenching and backfilling for service are by this Contractor.
c) Underground sewers within the building and to a point 5'0" outside of the building shall be extra heavy B & S cast iron pipe, asphalt coated, with caulked oakum and lead joints or neoprene compression gasket joints. Pitch of sewer shall be approximately 1/8" per foot, minimum, and shall be made with Y's and one-eigth bends. Cleanouts shall be installed at locations and shall be brass screw type; in finished rooms cleanouts shall be flush type chrome plated brass.
d) Underground sanitary and storm sewers 5'0" outside of building shall be vitrified clay sewer pipe with Amvit joints (or as required by local code), extra heavy strength under paved areas. Size shall be as per local code but in no instance shall size be less than 6". Trenching and backfilling shall be by this Contractor and shall be sand or granular fill.
e) Storm Drainage shall be per local conditions and site requirements. Yard, curb and gutter drains, if shown on the Owner's plot plan or required by law, shall be properly installed and connected by this Contractor. Roof drainage shall spill on grade unless locally required to be tied to the storm sewer, in which case this Contractor shall complete installation.
f) Grease trap shall be Wade Model W-5120-B-3, 20 gallon per minute grease interceptor installed with cover flush with finished floor. If local codes require size other than unit specified this Contractor shall include properly sized unit at no additional cost, and shall notify the Architect that a change in size has been made. The Contractor shall also supply the operator with two packages of Wade Bio-Mix Compound.
g) Floor drains, where shown, shall be Josam, Zurn, Wade or Jay R. Smith, Inc. Strainer and other exposed parts shall be polished brass.

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h) Waste and vent piping shall be type DWV copper with caste sweated fittings or galvanized pipe with "Surham" threaded fittings. All vertical stacks shall be firmly supported at their base. Vents shall be increased at the roof a minimum of one pipe diameter larger (however, in no case less than 3"), and shall extend at least one foot above the finished roof surface. Vents shall be flashed with 6# sheet lead flashing rolled down inside the vent and having at least an 18" x 18" flashing base. Flashing shall be custom made to neatly fit the pitch of the roof without bending or further modification on the job. Base shall be flashed in between the 30# roofing felt and the built up roof in such a manner as to assure a weather-tight condition. Copper vent flashing may be used in lieu of lead subject to the same installation conditions.
i) Pot sink and kitchen equipment: Pot sink, and kitchen equipment in stainless steel shall be supplied to the Contractor by the Owner's equipment company and this Contractor shall plumb same. The Plumbing Contractor shall supply all necessary trim and fittings, including faucets, traps, stops, etc. Faucets for pot sinks shall be T & S #B-221 with 12" swing spout; 8" centerset, ledge mounted. Service sink and hand sinks to be supplied and installed by Plumbing Contractor.
j) Fixtures: Provide and install fixtures and fittings as indicated on the drawings. Crane, Kohler and Eljer of comparable quality shall be considered as equals.
k) Sill Cocks: Furnish and install where shown on the drawings Woodfor' sill cocks. All sill cocks to be 3/4" brass finish and an anti-freezing type. Sill cocks to have brass body compression valves.

P.5 Water Heater: Shall be Ruud GL 100-75-5, 100 gallon capacity water heater. Unit shall be complete with temperature and pressure relief valve piped to floor, drain cock and all controls. A.O. Smith, Day and Night, or Rheem, with glass lined tank, shall be considered approved equals when of comparable storage capacity and recovery capacity.

P.6 Water Conditioning Equipment: Provide and install all necessary piping, tees, shutoffs, etc., as normally would be required for the installation of filtering and conditioning equipment to be provided and installed by others) as part of this Contract.

SECTION H - HEATING, VENTILATING AND AIR CONDITIONING

H.1 General Conditions: The General Conditions and the Supplementary General Conditions chapters of this specification shall apply herewith.

H.2 Scope: This Contract shall include all necessary labor, materials, equipment, transportation, licenses, fees, permits, bonds and taxes required for a complete and operable installation of heating, ventilating and air conditioning systems. All work shall be installed in strict accordance with State, County and Municipal ordinances and regulations. The Contractor shall report any discrepancies between the drawings and any governing ordinances and regulations to the Owner at the time of bidding. Upon submitting his bid, the Contractor shall be held responsible for all costs incurred for providing additional work required due to local ordinances and regulations.

H.3 Materials and Methods: Materials and methods as listed here are for the purpose of providing general information. It shall remain the responsibility of the supplying Contractor to assure that all equipment meets local requirements in respect to design and safety features.
a) Furnace and Air Conditioning Equipment: Shall be [illegible] the size, type, and capacity with controls as indicated. Units shall be complete with thermostat fan control, high and low limit controls and all necessary safety controls and control wiring.
b) Ductwork: Is 26 ga. minimum galvanized sheet metal, insulated with 1" fiberglass duct insulation with integral type vapor barrier, and is to be fabricated in accordance with A.S.H.V.E. recommendations. Ductwork is to be securely fastened to building framing components. Duct sizes shown indicate free area.
c) Exhaust Fans: Acme, Ilg, Greenheck or approved equal, complete with prefabricated curbs, bird screens, dampers, disconnect switches and other appurtenances as indicated in the fan schedule.
d) Registers, Grilles, Diffusers and Louvers: Shall be as manufactured by Titus, Krueger, or equal, curved blade type, aluminum of type, capacity and size shown on the drawings. All registers and diffusers shall be furnished with opposed blade volume control dampers.
e) Motor Starters and Electrical Characteristics: This Contractor shall furnish manual disconnect switches with thermal overload protection and pilot lites for all motors under 1/2 HP, and magnetic starters with three leg protection and pilot lights for all motors 1/2 HP and over. These disconnect switches and starters shall be furnished to the Electrical Contractor who will install them.

Heating Contractor shall verify with the Electrical Contractor the voltage and phase of service to the building.

H.4 Workmanship: Workmanship shall be only of the very best, in accordance with best trade practices. All ductwork shall be fabricated in accordance with the A.S.H.V.E. specification and SMAGNA standards and shall be neatly and securely fit into the building construction. All joints and connections shall be neat and shall be tight, and entire installation shall be securely attached to building construction.
This Contractor shall cooperate with other trades, particularly those having work affected by his work, in order to expedite the project and produce a neat finished product.
The Contractor shall do all cutting and chipping, drilling (except where otherwise noted) as may be required for the installation of his work, shall pay the cost of repair of damages due to cutting or other work not authorized by the Architect. The cost of such damage will be deducted from the amount due to the Contractor in this contract.
Upon completion of the installation the Contractor shall balance and adjust the entire system to assure proper operation and operation within the range of local geographical design standards. Provide the store operator with complete written instructions regarding proper maintenance and operation of the entire system.

H.5 Guarantees: Provide a written unconditional one-year GUARANTEE against defects in workmanship and material to start at the date of acceptance of the work. Additional four-year factory WARRANTY on motor-compressor assemblies shall be provided also.

SECTION E - ELECTRICAL

E.1 General Conditions: The General Conditions and the Supplementary General Conditions chapters of the specifications shall apply herewith.

E.2 Scope: This contract includes all necessary labor, materials, equipment, transportation, taxes, etc., to complete the installation of all electrical lighting and power wiring as shown on the drawings and as may be specified herein, including complete service installation and electrical connection of equipment and lighting fixtures furnished by the Owner.
All work shall be installed in strict accordance with state, county and municipal ordinances and regulations. The Contractor shall report any discrepancies between the drawings and any governing ordinances and regulations to the Owner at the time of bidding. Upon submitting his bid, the Contractor shall be held responsible for all costs incurred for providing additional work required due to local ordinances and regulations.

E.3 Rules and Regulations: All apparatus and materials used and the manner of installation shall conform in all respects with the latest rules and requirements of the National Electrical Code, governing building codes and local governing utility company, anything in this specification or the drawings to the contrary notwithstanding.

E.4 Materials and Methods:
a) Cutting and Patching: This Contractor shall do all cutting and chipping, drilling, (except where otherwise noted) as may be required for the installation of his work, shall pay the cost of repair or damages due to cutting or other work not authorized by the Architect. The cost of such damage will be deducted from the amount due the Contractor in this contract.
b) Conduit: Shall be "thinwall" electrical metallic tubing throughout except for conduits over 2" in diameter and all conduit buried under or within the concrete floor slab which shall be rigid steel pipe conduit with threaded connections. Fiber duct, if used, shall be "Orangeburg" encased in concrete. All metal conduit shall be as manufactured by National Electric Products, Youngstown Steel or Republic Steel Corporation. All conduit on roof shall be rigid steel pipe, galvanized inside and out.
c) Wire and Cable: Shall be copper type THW or THWN for sizes #8 AWG and smaller and RHW for sizes #6 AWG and larger. Wire and cable shall be as manufactured by Anaconda Wire and Cable, General Cable, General Electric, or Simplex Wire and Cable. Minimum wire size shall be #12 AWG except for 24 volt wiring which shall be per equipment supplier's specifications. #8 AWG wire and larger shall be stranded.
All conduit shall be swabbed thoroughly before pulling any wires. All wires for a circuit shall be in the same conduit, and shall be continuous without splices except in outlets or junction boxes. Solderless connectors shall be used wherever possible and shall be Thomas & Betts "Lock-ITT" for #8 AWG conductors and larger and uninsulated 3M "Scotchlok" spring connectors for #10 AWG conductors and smaller.
d) Outlet boxes, junction boxes, pull boxes, etc.: Shall be code gauge galvanized steel of required size and shall be furnished with covers, plaster rings, etc., as required. All boxes shall be securely fastened, and mounted plumb and true, ready to receive finish materials.
e) Wiring devices, switches and receptacles, etc.: Shall be specification grade manufactured by Harvey Hubbell, Pass & Seymour or equal. Switches shall be Hubbell 1201-1 (15 amp) or 1221-1 (20 amp); convenience receptacles shall be Hubbell #5662-1 (15A-250V) or #5382-1 (20A-125V). All outlets shall be properly grounded; all plates shall be brushed stainless steel.
f) Panels and Switches: Shall be Square D as shown on the drawings. Upon completion of his work this Contractor shall fully index and permanently label all circuits at the panels.
g) Service: Shall be 200 ampere, 120/240 or 120/208, 3 phase 4 wire underground electric service as shown on the plans. Contractor shall give alternate price for overhead service. Contractor shall verify type of service available and shall list same on his proposal. All services shall be bid complete.
Temporary service shall be installed by this Contractor for use during the period of construction. Such service shall be minimum 100 ampere, 120/240 volt, 3 wire service.
h) Sign and Parking Area Lighting: Shall be installed underground complete, including trenching, by this Contractor. Minimum one inch (1") rigid conduit, 4 dip galvanized and asphalt painted, shall be buried at least 2'0" below finish grade. Conduit shall be capped during construction to prevent entrance of foreign matter and shall be swabbed dry before pulling wires. Refer to Plot Plan and Sheet E-1. Contractor shall submit alternate quotation for direct burial cable in blacktop areas.
i) Equipment: As provided by the Owner shall be hooked up by this Contractor as required and shall include all required fittings, switches, fuses, etc. Flexible connections shall be Greenfield armored cable. This includes food preparation equipment, food heat lamps, etc.
j) Heating, Ventilating and Air Conditioning Power and Control Wiring: Shall be by this Contractor. Units are prewired at the factory and this Contractor shall supply power to units and hookup of same, wiring to the thermostats, control panels and installation and wiring of duct-stat in discharge air of make-up air unit (where required by code), interlock wiring to exhaust fans, power and control for exhaust fans.
k) Electrical Fixtures: Shall be furnished and installed by this Contractor as shown on the drawings. Fluorescent strip lights shall be equipped with top line, ETM-HPF certified ballasts.
[illegible] LOT LIGHTS AND POLES [illegible] POWER [illegible] 42 [illegible] 16 [illegible] POLE [illegible]
Hand dryers shall be wall mounted manufactured by World Dryer Company and shall be supplied and installed by General Contractor.

SECTION L - LANDSCAPE

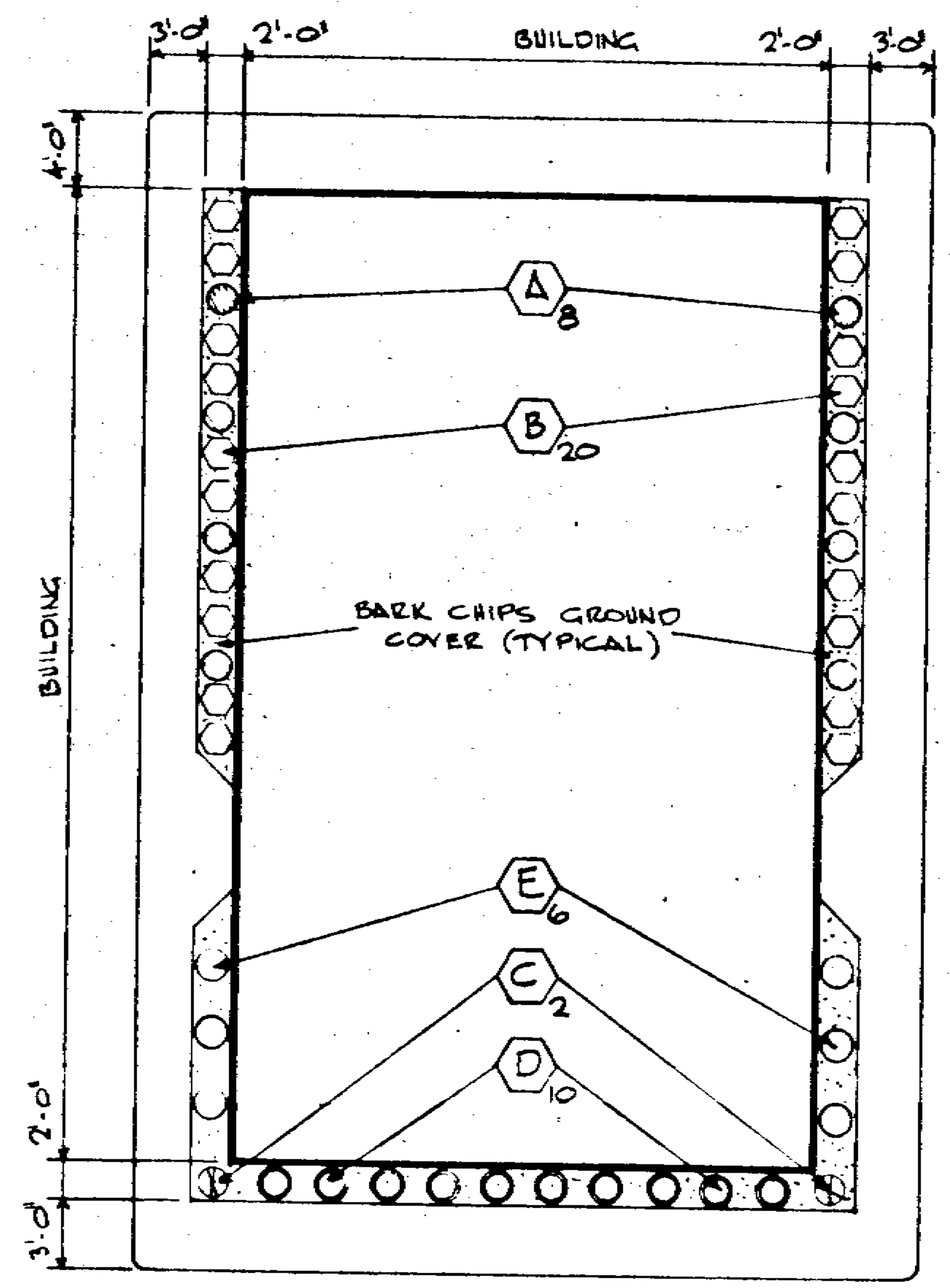
L.1 General Conditions: The General Conditions and the Supplementary General Conditions chapters of the specifications shall apply herewith.

L.2 Scope: This contract includes all necessary labor, materials, equipment, transportation, taxes, etc., to complete the installation of all landscaping as shown on the site plan and as may be specified herein.

L.3 Materials: Materials as shown on the site plan and as listed here are for the purpose of providing general information. The supplying Contractor shall ascertain that plant materials are hardy under local climatic conditions.
If in the opinion of this Contractor these materials are unsuitable, he shall submit with the bid an alternate list of materials.
All plant material shall be of the best quality available and be delivered in a live growing condition. All shrubs shall be balled and burlapped.
a) Arbor Vitae: Mark (A) Arbor Vitae uprights 3'-0" to 4'-0" high planted size.
b) Yews: Mark (B) Intermediate Yew Japanese Yew, Taxus Cuspidata, 2'-0" planted size.
c) Upright Yews: Mark (C) upright Hicksi Yew, 2'-0" planted size.
d) Hedge: Mark (D) Hedge Euonymus Alatus Compactus 2'-0" planted size.
e) Hedge: Mark (E) Euonymus Patens, 18" to 24" planted size.
f) Ground Cover: All planting areas surrounding building shall be covered with 2" minimum of Redwood Bark Chips.

L.4 Workmanship: Workmanship shall be only of the very best, with materials placed in accordance with the best trade practices.
Upon completion of installation, this Contractor shall remove all unused and waste materials and shall leave paved areas adjacent to landscaping in a broom clean condition.

L.5 Maintenance and Guarantee: Shall maintain for a period of thirty (30) days all plant materials placed in this contract. At the end of this thirty (30) day period this Contractor shall remove and replace dead or dying plant materials at this Contractor's expense.
Provide the store operator with complete written instructions regarding care and maintenance of all plant materials.



LANDSCAPE PLAN
1/8" = 1'-0"

SECTION S - STUCCO

S.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are part of this contract.

S.2 Scope: This contract includes all necessary labor, materials, transportation, taxes, equipment, etc., as required to complete all stucco work as shown on the drawings or as specified herein.

S.3 Materials:
a) Stucco: Type IA or IIA Portland Cement ASTM C175 Air Entraining White.
b) Lime: Type S Hydrated Lime ASTM C206.
c) Aggregate: Clean, solid, well graded from fines to 1/8" (maximum) and free from deleterious matter per ASTM C144.
d) Lath: Diamold or Stucco mesh 34/sq. yd galvanized copper alloy steel with self-furring (minimum 1/4" space) reinforcing.
e) Accessories: Corner beads, soffit and foundation screeds, etc., to be minimum 26 ga. expansion joints to be type 15, gold bond, milcor or equal. Flashing to be as detailed minimum 26 ga. fasteners to be type NGC S-12 screws. All accessories to be galvanized.

S.4 Storage: All material shall be stored and handled so as to protect them from moisture, contamination or other damage.

S.5 Workmanship: All work shall be done in a neat uniform manner by skilled tradesmen.

Apply stucco only when temperature is above 50° F. and will be maintained throughout the setting period. Moist cure before next coat with fine water spray.

Apply metal lath over building paper with long direction across studs. Lap sides minimum 1/2" and ends minimum 1". Stagger end laps in succeeding courses.

Mix stucco proportions (by volume) as follows:
- Scratch Coat
  - 1 part Portland Cement
  - 1/4 part lime
  - 3 parts sand
- Brown Coat
  - 1 part Portland Cement
  - 1/4 part lime
  - 5 parts sand
- Finish Coat
  - 1 part White Portland cement
  - 1 part lime
  - 1 part silica sand

Scratch Coat: Apply evenly to uniform thickness 3/8". Squeeze through lath to backing to form mechanical key and embed mesh completely. Cross rake entire surface when stucco is firm but not dry. Moist cure 12 to 24 hours - total set 48 hours.
Brown Coat: Apply uniform and level to 3/8" thickness. Interrupt work only at screeds, control joints and corners. Lightly score surface. Moist cure 12 to 24 hours - Set 7 days.
Finish Coat: Dampen brown coat evenly prior to applying finish coat to obtain uniform suction. Trowel 1/8" thick in swirl pattern. Moist cure 12 to 24 hours.
Protect all finish work during plastering and repair all damage. Remove all debris and excess plaster from walks, planting or other surfaces. All stucco shall be guaranteed for two (2) years against popping, peeling, cracking or other defects.

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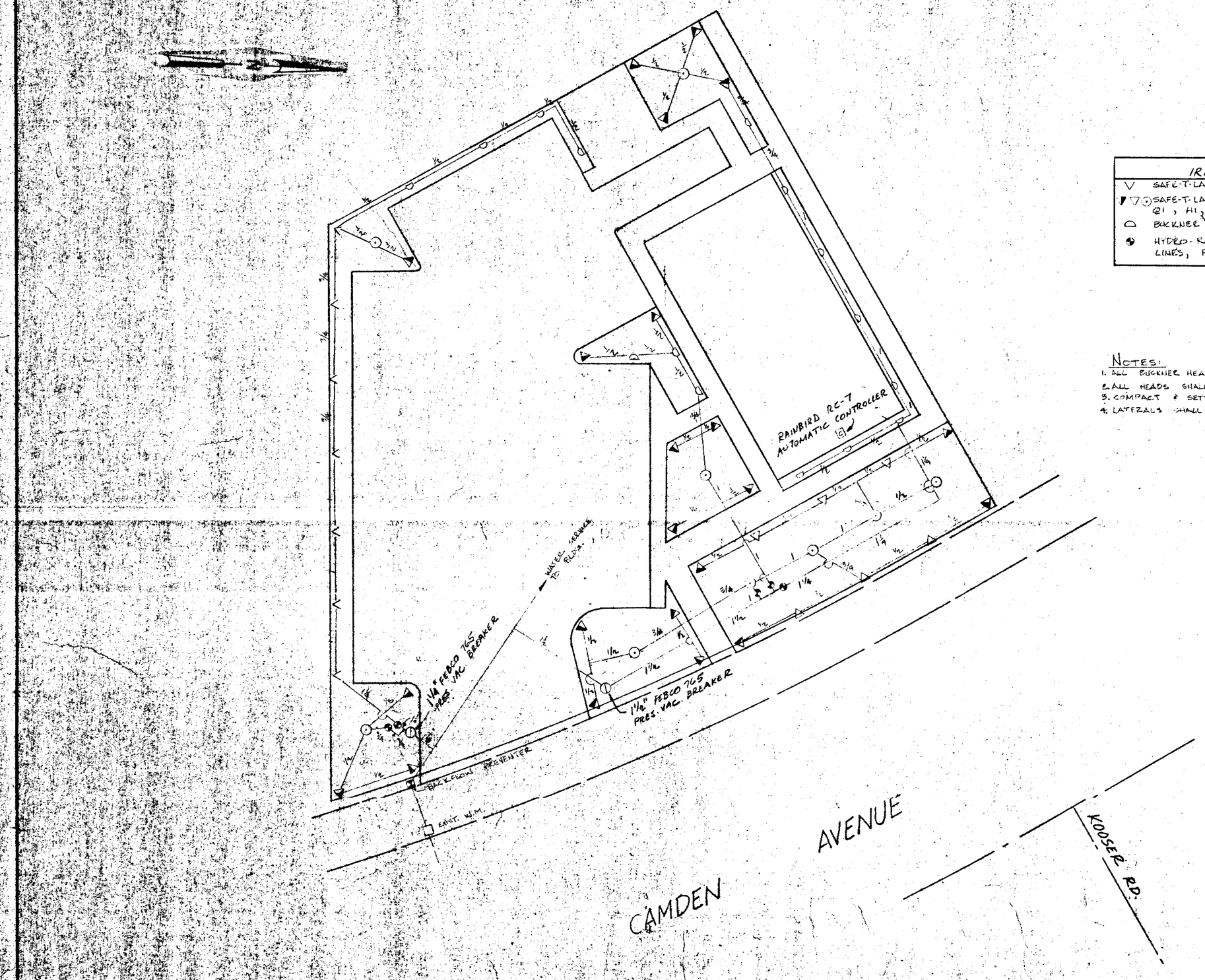
JOB NUMBER	79-20
DATE	5-25-79
SHEET NUMBER	SP-4

79-613



IRRIGATION	LEGEND
V	SAFE-T-LAWN GL-71 SHRUB POP-UP W/680 NOZ. 7" TRAV.; HH1 1/2 HEAD
▼ (7)	SAFE-T-LAWN GL-71 SHRUB POP-UP W/680 NOZ.; Q1, H1, F1; 1/4, 1/2 & FULL HEADS
○	BUCKNER 400 STSA SINGLE SIDE ANGLE STRIP SPRAY
◆	HYDRO-RAIN 100 SERIES ELECTRIC REMOTE CONTROL VALVE MAIN LINES, PVC CLASS 200 PIPE; LATERAL LINES, PVC SCHEDULE 40 PIPE

NOTES:

1. ALL BUCKNER HEADS SHALL BE ON PVC SCHEDULE 800 RISERS 3" ABOVE GRADE
2. ALL HEADS SHALL BE INSTALLED WITH DOUBLE SWING JOINTS
3. COMPACT & SETTLE ALL DITCHES
4. LATERALS SHALL HAVE 12" COVER; MAIN LINES 18" COVER

REVISIONS	BY

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2560 Old Crow Canyon Road, Suite 420
San Ramon, California 94583
(415) 820-2623

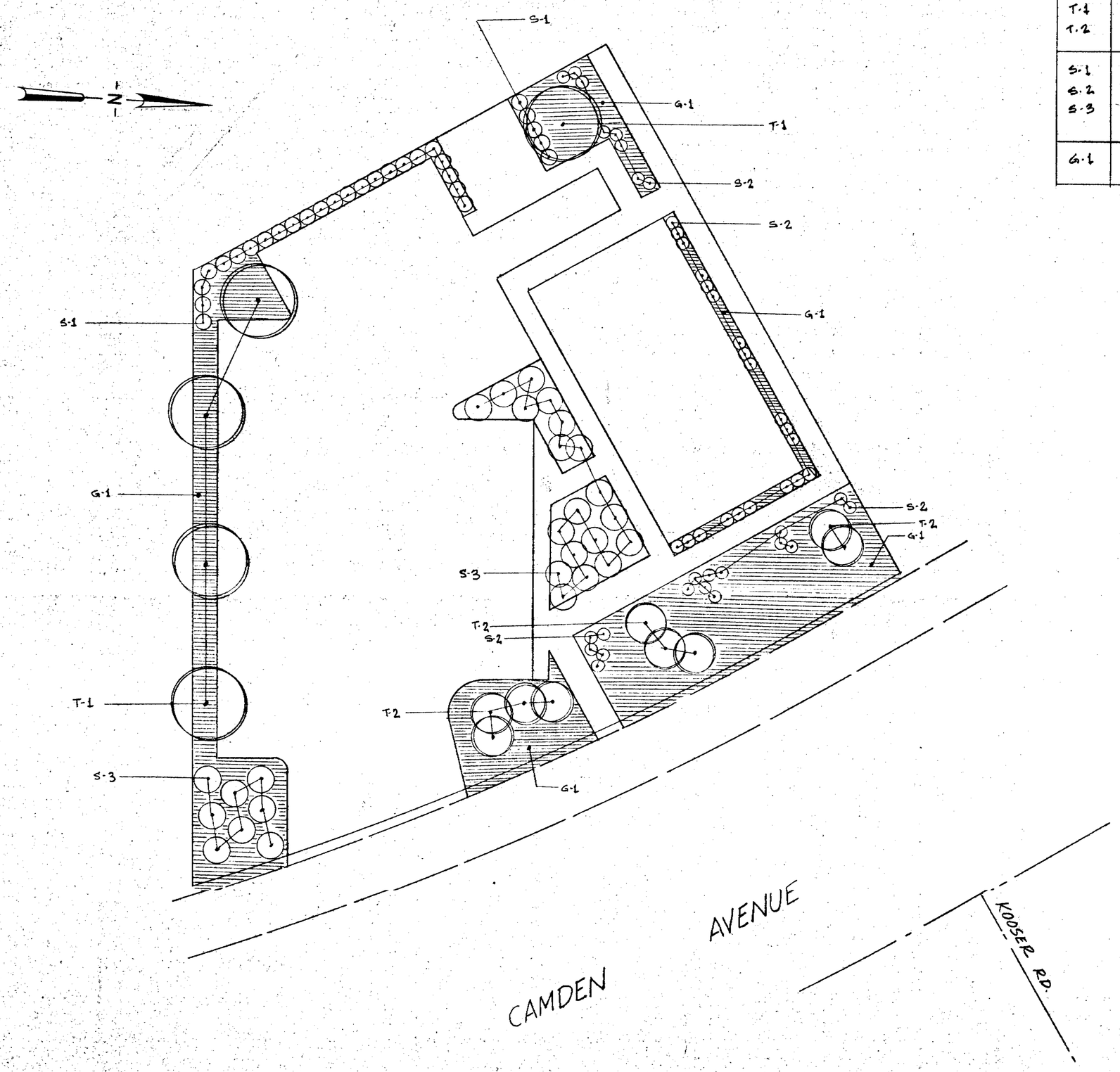
22941 1188

PLAN

FOR TACO BELL RESTAURANT
CAMDEN AVE. KOOSER, SAN JOSE, CA.

Date 8-7-79
Scale 1" = 10'
Drawn RH
Job 79-613-8
Sheet 1 of 1

33



SYM.	BOTANICAL NAME	COMMON NAME	QNTY	SIZE
T-1	GLEDITSIA TRI SHADEMASTER	HONEY LOCUST	5	15 GAL.
T-2	LIQUIDAMBER STY.	AMER. SWEET GUM · PALO ALTO	9	15 GAL.
S-1	NERIUM OLEANDER	OLEANDER (PETIT PINK)	29	1 GAL.
S-2	HEBE COED	COED HEBE	45	1 GAL.
S-3	JUNIPER HORIZ. 'VARIEGATA'	JUNIPER VARIEGATED PROS.	27	1 GAL.
G-1	HEDERA HELIX	ENGLISH IVY @ 12" O.C.	—	—

ALL PLANTED AREAS SHALL HAVE A 1" LAYER OF REDWOOD BARK CHIP MULCH (½") SPREAD AS A FINAL TOP DRESSING.

22941 1188

34

REVISIONS	BY

Michael J. Majors Civil Engineers, Inc.
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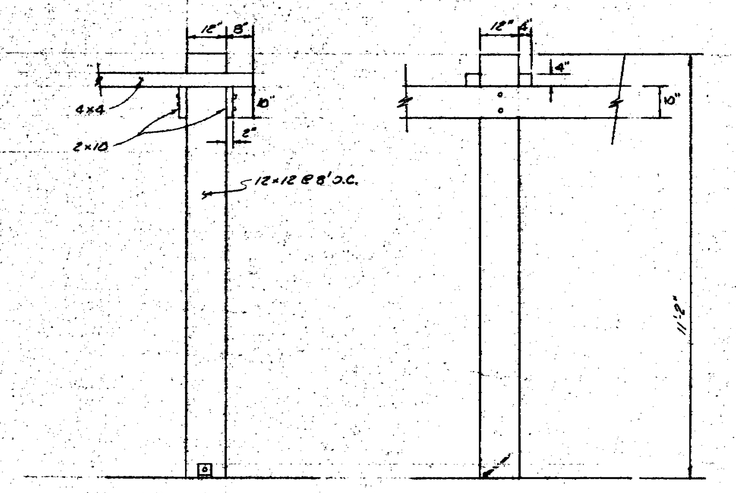
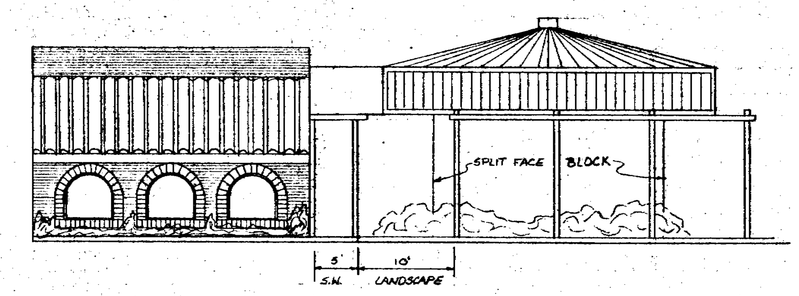
LANDSCAPE PLAN
FOR TACO BELL RESTAURANT
CAMDEN AND KOOSER, SAN JOSE, CA.

Date 8-7-79
Scale 1" = 10'
Drawn PJH
Job 79-613-8
Sheet 1
Of 1 Sheets

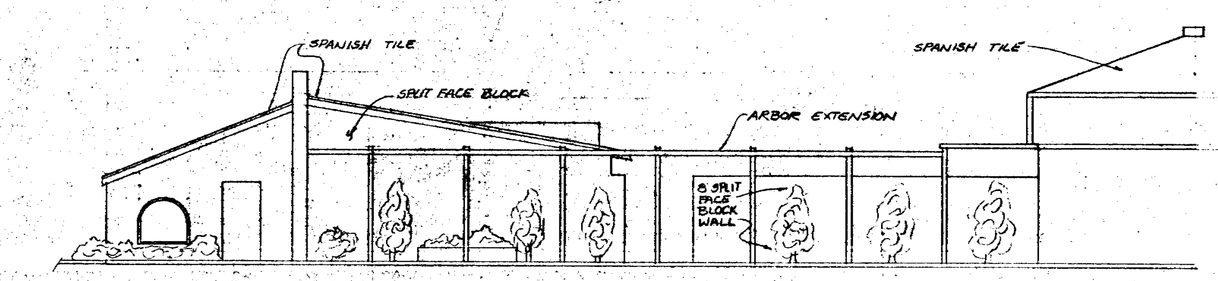


ARBOR DETAIL
N.T.S.

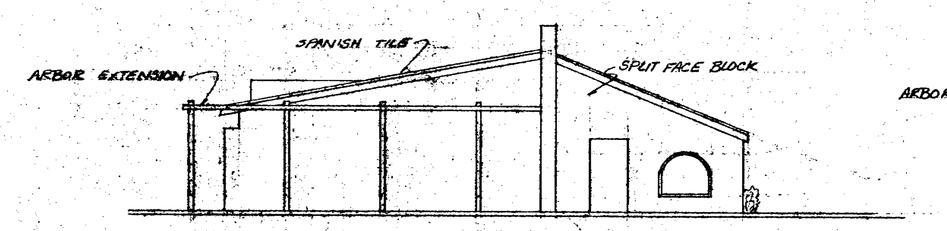
NOTES:
1) ROOF - SPANISH TILE RED
2) EXTERIOR - TAN - SPLIT FACE BLOCK
3) TRIM - DARK BROWN
ARBOR EXTENSION TO MATCH EXISTING



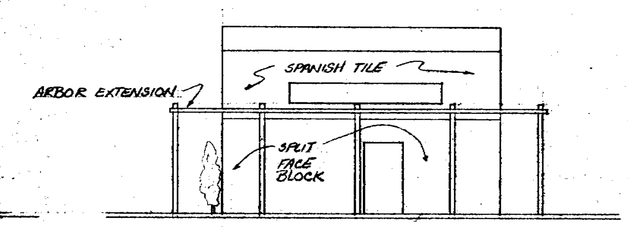
FRONT ELEVATION



SIDE ELEVATION



SIDE ELEVATION



REAR ELEVATION

35

REVISIONS	BY
8-7-79	E.B.

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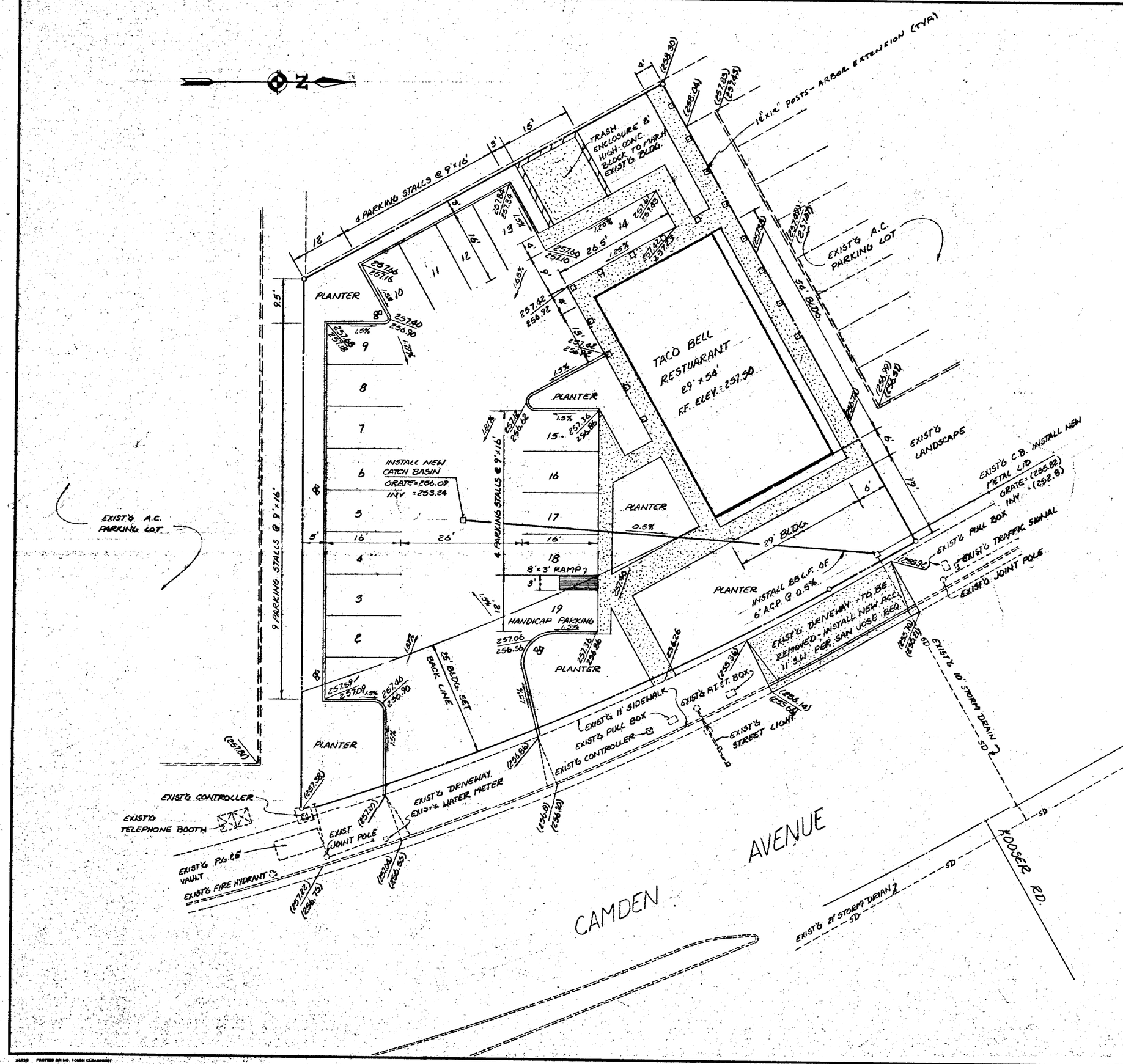
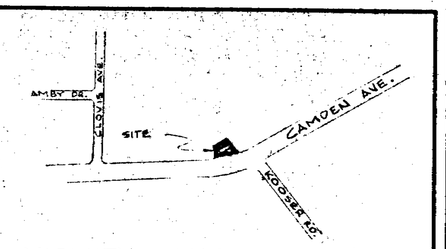
2500 Old Crow Canyon Road, Suite 428
San Ramon, California 94583
(415) 820-2423

ELEVATION FOR TACO BELL
CAMDEN AND KOOSER, SAN JOSE
CALIFORNIA 22941 1088

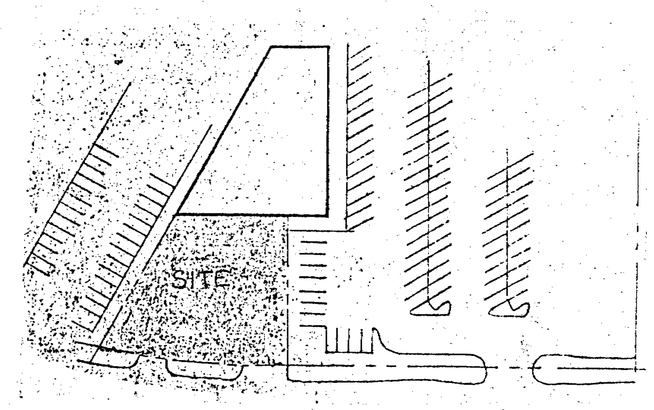
Date 7-9-79
Scale NO SCALE
Drawn BURDUE
Job 79-613-6
Sheet 1
Of 1 Sheets





VICINITY MAP

SCALE: 1" = 500'



GRADING NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE COUNTY OF SANTA CLARA AND CHAPTER 70 OF THE UNIFORM BUILDING CODE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY OF SAN JOSE FOR WORK DONE WITHIN THE ROAD RIGHT-OF-WAY PRIOR TO CONSTRUCTION.

2. ABBREVIATIONS:

T.C. -	TOP OF CURB	INV. -	INVERT
F.L. -	FLOW LINE	BK.WK-	BACK OF WALK
F.F. -	FINISHED FLOOR ELEVATION	C.B. -	CATCH BASIN
G.B. -	GRADE BREAK	M.H. -	MANHOLE
A.C. -	ASPHALT CONCRETE	S.S. -	SANITARY SEWER
EL. -	ELEVATION	S.D. -	STORM DRAIN

3. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, AND/OR STRUCTURES SHOWN ON THIS GRADING PLAN WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS GRADING PLAN. THE CONTRACTOR SHALL ASCERTAIN THE TRUE LOCATION OF ANY UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES SHOWN OR NOT SHOWN THEREON.

4. BENCH MARK:

THE TOP OF THE 3/4" IRON PIPE FOUND IN THE MONUMENT CASING AT THE INTERSECTION OF THE CENTERLINES OF KOOSER ROAD AND CAMDEN AVENUE.

ELE. = 255.48
1979 FLOOD PLAN
DATUM NOLTE STUDY

5. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.

6. A.C.P. SHALL BE CLASS IV 3000 D TRANSITE PIPE AS MANUFACTURED BY JOHNS-MANVILLE SALES CORPORATION OF SAN FRANCISCO, CALIFORNIA, OR EQUAL.

7. THE CONTRACTOR SHALL TAKE EXTREME CARE NOT TO DAMAGE EXISTING PAVEMENT AND IMPROVEMENTS WHICH ARE TO REMAIN.

LEGEND

- BOUNDARY LINE
- PROPERTY CORNER
- NEW P.C.C. CURB, GUTTER AND SIDEWALK
- EXISTING OBJECTS INDICATED BY DASHED LINES
- PROPOSED
- YARD LIGHTS

NOTE:

PRESCO LIGHTING - 93023 T101N PERMANENT FIXED POLE TOP DOWN LIGHT (OR EQUAL)

36

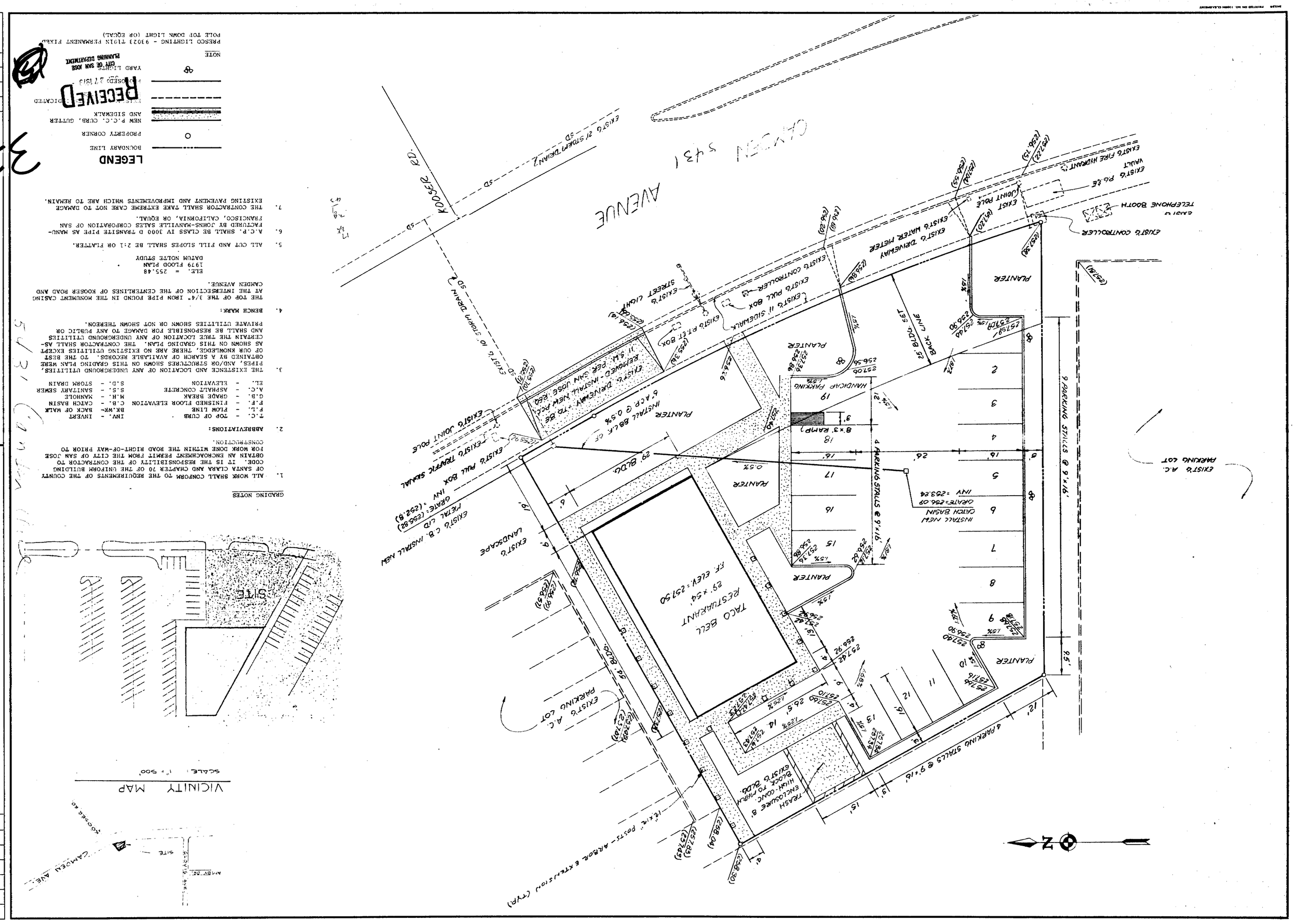
REVISIONS	BY
7-12-79	BB
8-7-79	BB

Michael J. Majors Civil Engineers, Inc.
2500 Old Crow Canyon Road, Suite 428
San Ramon, California 94583
(415) 820-2423

GRADING & SITE PLAN

FOR TACO BELL RESTUARANT
CAMDEN AND KOOSER, SAN JOSE, CA.

Date 7-12-79
Scale 1" = 10'
Drawn BURDUE
Job 79-613-2
Sheet 1
Of 1 Sheets



GRADING NOTES

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2. ABBREVIATIONS:

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F.L.	- FLOW LINE	BK.WK.	- BACK OF WALK
G.B.	- GRADE BREAK	M.H.	- MANHOLE
F.F.	- FINISHED FLOOR ELEVATION	C.B.	- CATCH BASIN
A.C.	- ASPHALT CONCRETE	S.S.	- SANITARY SEWER
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ELE. = 255.48
1979 FLOOD PLAN
DATUM NOTE STUDY

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LEGEND

- BOUNDARY LINE
- PROPERTY CORNER
- NEW P.C.C. CURB, GUTTER AND SIDEWALK
- DICATED
- PROPOSED 27 TRIP
- YARD LIGHTS

NOTE

PRESCO LIGHTING - 99023 T10IN PERMANENT FIXED POLE TOP DOWN LIGHT (OR EQUAL)

RECEIVED
CITY OF SAN JOSE
PLANNING DEPARTMENT

34

GRADING & SITE PLAN
FOR TACO BELL RESTAURANT
CAMDEN AND KOOSER, SAN JOSE, CA.

Michael J. Majors Civil Engineers, Inc.
2500 O'Connor Drive
San Ramon, Suite 428
(415) 820-8683

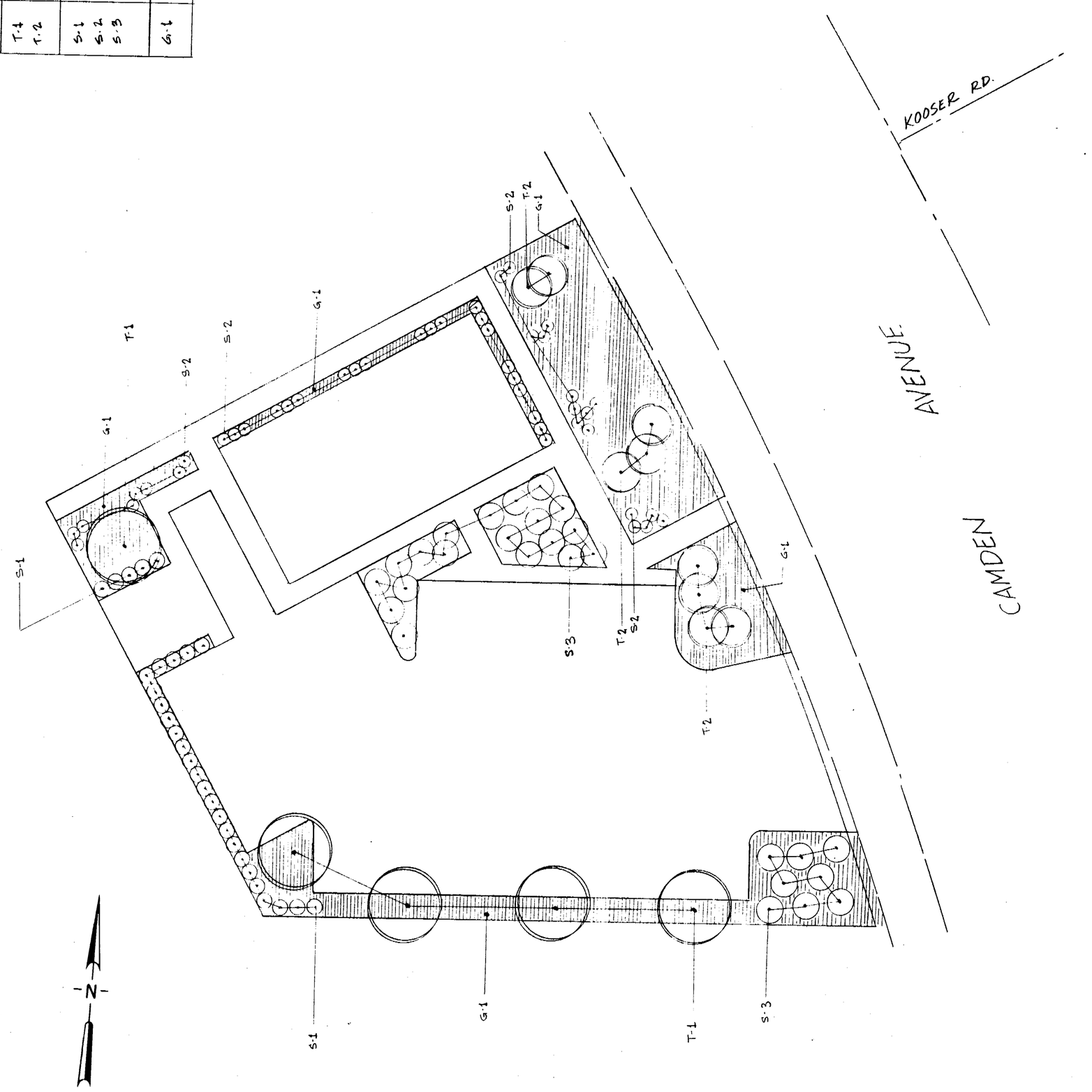
REVISIONS	BY
7-12-79	RG
8-7-79	KR

Date 7-12-79
Scale 1" = 10'
Drawn Bulbule
Job 79-613-2
Sheet 1 of 1 Sheets

79-5-126

SYM.	BOTANICAL NAME	COMMON NAME	QNTY	SIZE
T-1	GALEDITSIA TRI. SHADEMASTER	HONEY LOCUST	5	15 GAL.
T-2	LIQUIDAMBER SYL.	AMER. SWEET GUM PALO ALTO	9	15 GAL.
S-1	NERIUM OLEANDER	OLEANDER (PETIT PINK)	29	1 GAL.
S-2	HEBE CORD	CORD HEBE	45	1 GAL.
S-3	JUNIPER HORIZ. VARIEGATA'	JUNIPER VARIEGATED PROS.	27	1 GAL.
G-1	HEDERA HELIX	ENGLISH IVY @ 12" O.C.	—	—

ALL PLANTED AREAS SHALL HAVE A 1" LAYER OF REDWOOD BARK CHIP MULCH (½") SPREAD AS A FINAL TOP DRESSING.



LANDSCAPE PLAN
FOR TACO BELL RESTAURANT
CAMDEN AND KOOSER, SAN JOSE, CA.

Date 8-7-79
Scale 1" = 10'
Drawn BH
Job 79-613-8
Sheet 1
Of 1 Sheets

Michael J. Majors Civil Engineers, Inc.
2500 Old Crow Canyon Road, Suite 428
San Ramon, California 94583
(415) 820-2423

REVISIONS	BY

22841 1088

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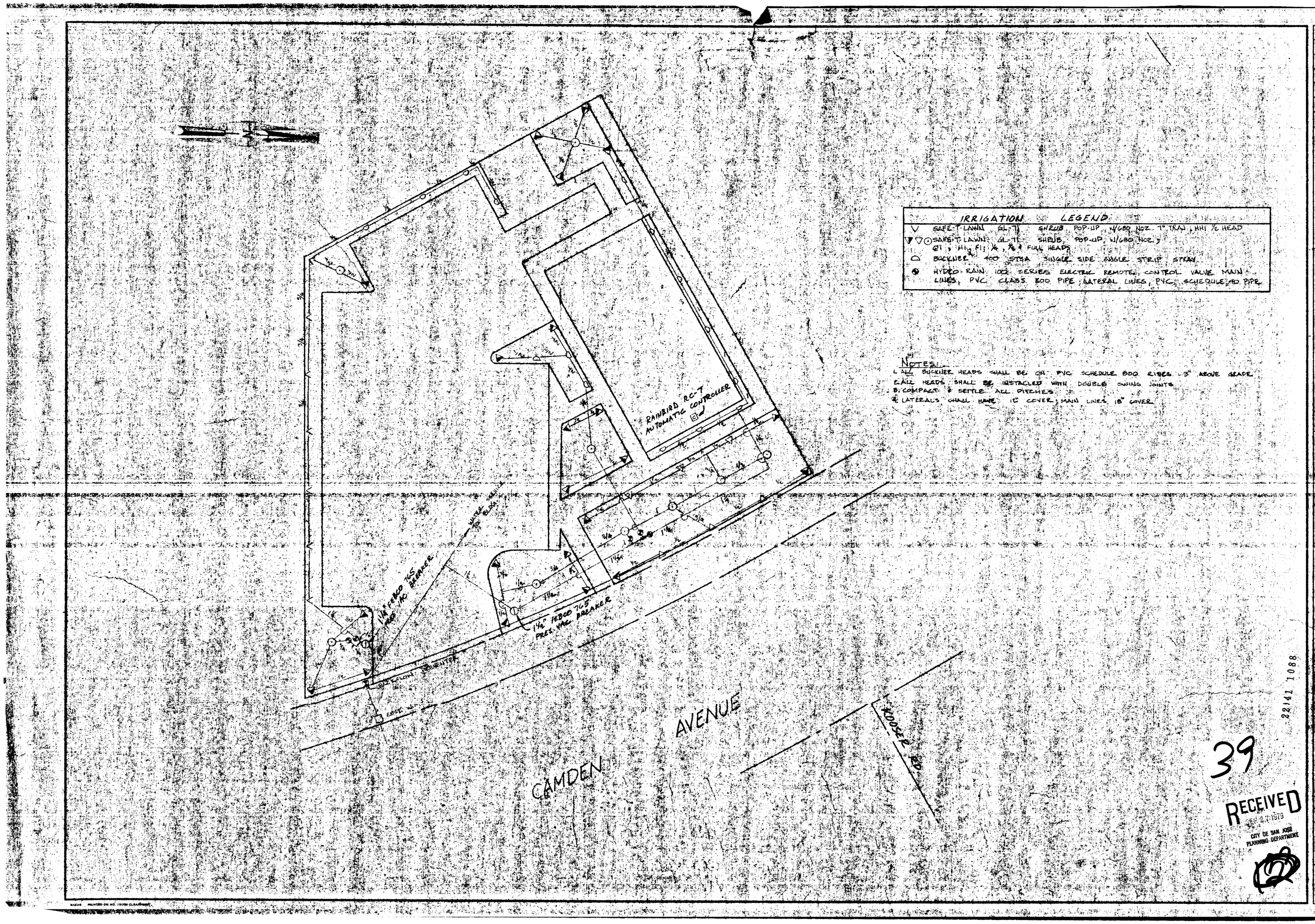
PLANNING DEPARTMENT



REVISIONS

Michael J. Majors Civil Engineers, Inc.
2500 Old Crow Canyon Road, Suite 428
San Ramon, California 94583
(415) 830-9373

IRRIGATION PLAN
FOR TACO BELL RESTAURANT
CAMDEN AND KOLARE, SAN JOSE, CA.

Date 8-7-79
Scale 1" = 10'
Drawn RH
Job 79-617-B
Sheet 1/3

22141 1088

39

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CITY OF SAN JOSE
PLANNING DEPARTMENT

REVISIONS	BY
8 / 7 / 79	CJ

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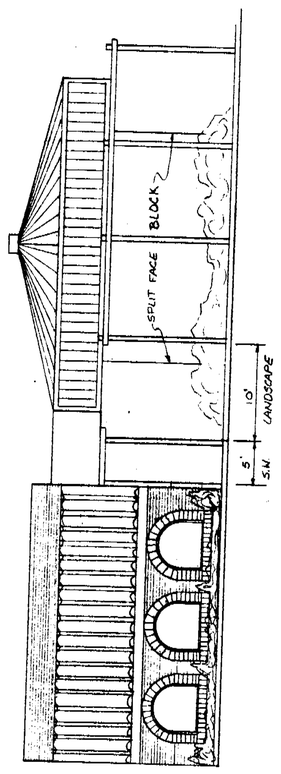
San Ramon, California 94583
(415) 820-2423

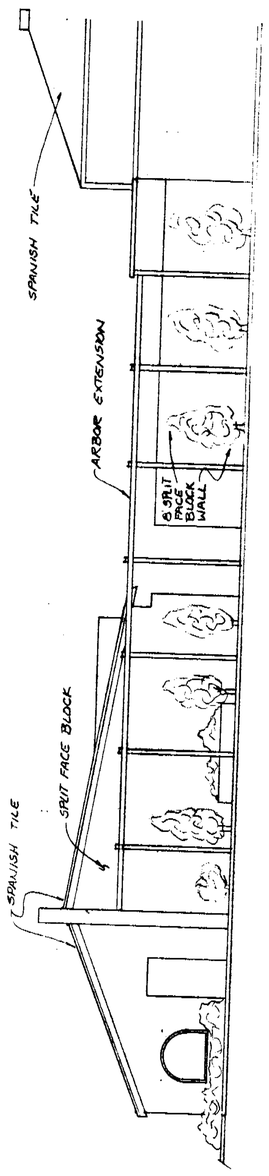
ELEVATION FOR TACO BELL
CAMDEN AND KOOSER, SAN JOSE, CALIFORNIA

Date 7-9-79
Scale NO SCALE
Drawn BURDUE
Job 79-813-6
Sheet 1
Of 1 Sheets

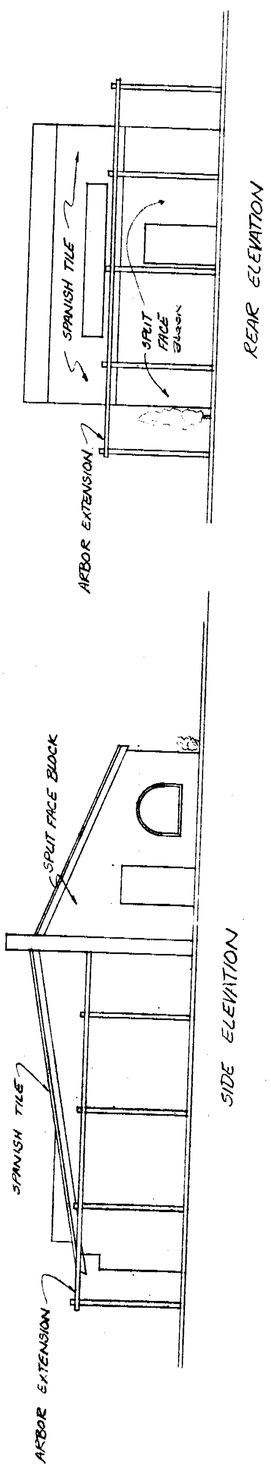


FRONT ELEVATION

NOTES:
1) ROOF - SPANISH TILE RED
2) EXTERIOR - TAN - SPLIT FACE BLOCK
3) TRIM - DARK BROWN
ARBOR EXTENSION TO MATCH EXISTING

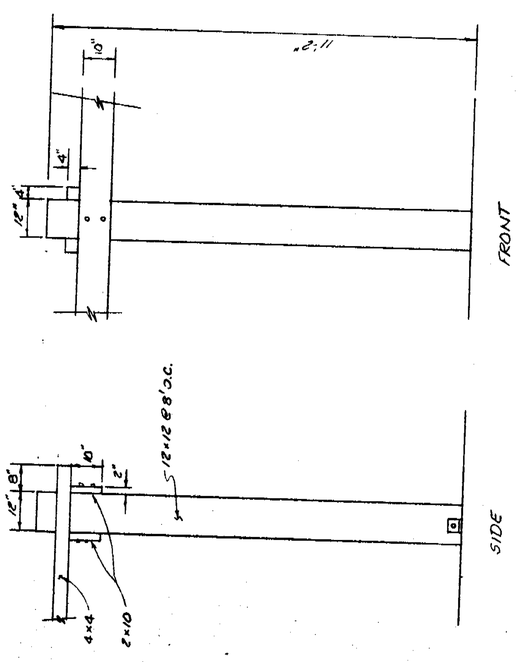


SIDE ELEVATION



REAR ELEVATION

SIDE ELEVATION



ARBOR DETAIL
N.T.S.

RECEIVED
SEP 27 1979
CITY OF SAN JOSE
PLANNING DEPARTMENT

46

GRADING & SITE PLAN

FOR TACO BELL RESTAURANT
CAMDEN AND KOOSER, SAN JOSE, CA.

A1

Date	7-12-79
Scale	1" = 10'
Drawn	Dubrule
Job	79-613-2
Sheet	1
Of	1

Michael J. Majors Civil Engineers, Inc.
2500 Old Crow Canyon Road, Suite 428
San Ramon, California 94583
(415) 820-2423

REVISIONS	BY
7-18-79	BG
8-7-79	BB
2-12-80	BB
8-4-80	B.B.

GRADING NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE COUNTY OF SANTA CLARA AND CHAPTER 70 OF THE UNIFORM BUILDING CODE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY OF SAN JOSE FOR WORK DONE WITHIN THE ROAD RIGHT-OF-WAY PRIOR TO CONSTRUCTION.

2. ABBREVIATIONS:

T.C.	- TOP OF CURB	INV.	- INVERT
F.L.	- FLOW LINE	BK.WK.	- BACK OF WALK
F.F.	- FINISHED FLOOR ELEVATION	C.B.	- CATCH BASIN
G.B.	- GRADE BREAK	M.H.	- MANHOLE
A.C.	- ASPHALT CONCRETE	S.S.	- SANITARY SEWER
EL.	- ELEVATION	S.D.	- STORM DRAIN

3. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, AND/OR STRUCTURES SHOWN ON THIS GRADING PLAN WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT CERTAIN THE TRUE LOCATION OF ANY UNDERGROUND UTILITIES AS SHOWN ON THIS GRADING PLAN. THE CONTRACTOR SHALL ASSUME AND SHALL BE RESPONSIBLE FOR DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES SHOWN OR NOT SHOWN THEREON.

4. BENCH MARK:
THE TOP OF THE 3/4" IRON PIPE FOUND IN THE MONUMENT CASING AT THE INTERSECTION OF THE CENTERLINES OF KOOSER ROAD AND CAMDEN AVENUE.
ELE. = 255.48
1979 FLOOD PLAN
DATUM NOTE STUDY

5. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.

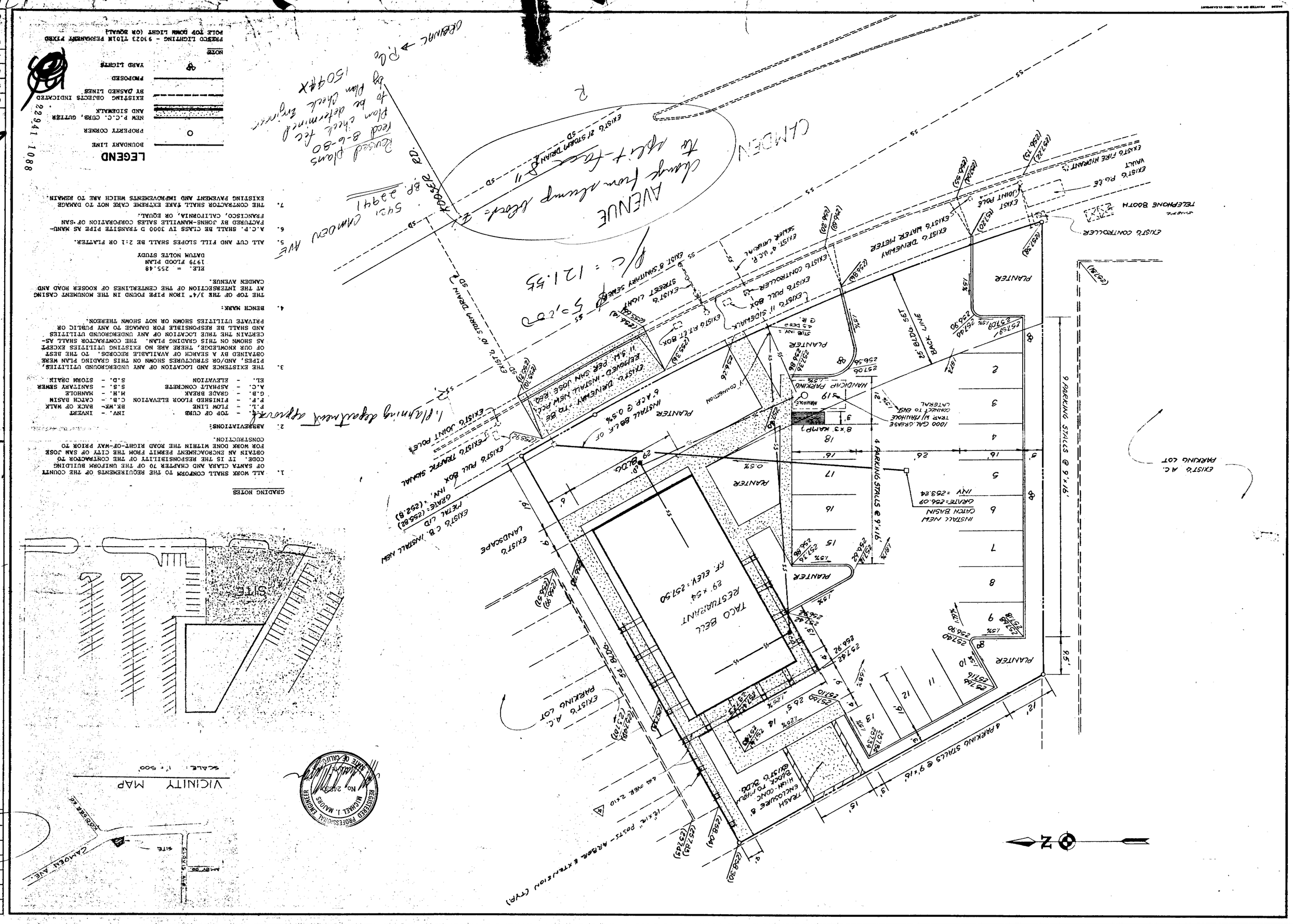
6. A.C.P. SHALL BE CLASS IV 3000 D TRANSITE PIPE AS MANUFACTURED BY JOHNS-MANVILLE SALES CORPORATION OF SAN FRANCISCO, CALIFORNIA, OR EQUAL.

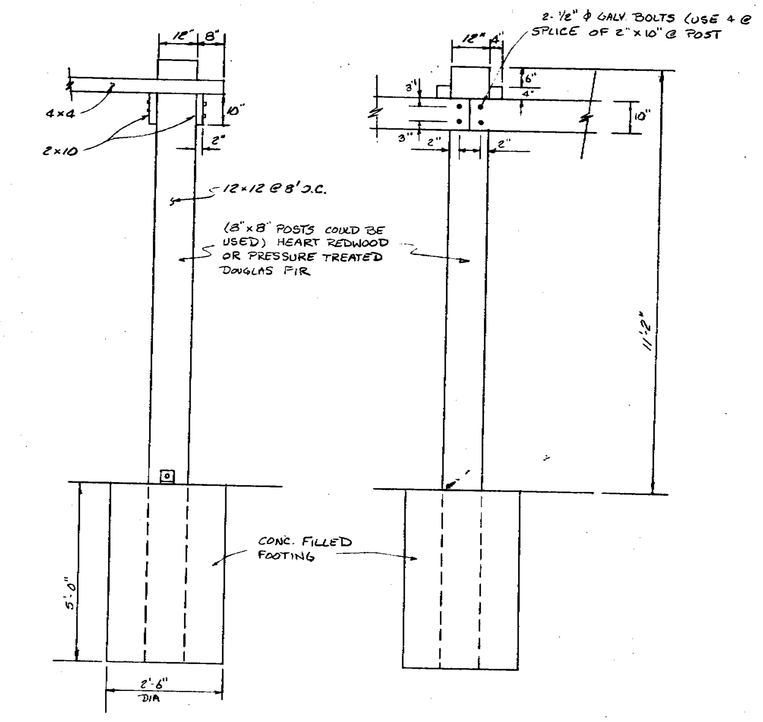
7. THE CONTRACTOR SHALL TAKE EXTREME CARE NOT TO DAMAGE EXISTING PAVEMENT AND IMPROVEMENTS WHICH ARE TO REMAIN.

LEGEND

	BOUNDARY LINE
O	PROPERTY CORNER
	NEW P.C.C. CURB, GUTTER AND SIDEWALK
	EXISTING OBJECTS INDICATED BY DASHED LINES
	PROPOSED
	YARD LIGHTS

NOTE
PRESTO LIGHTING - 9102J T10LM PERMANENT FIXED POLE TOP DOME LIGHT (OR EQUAL)



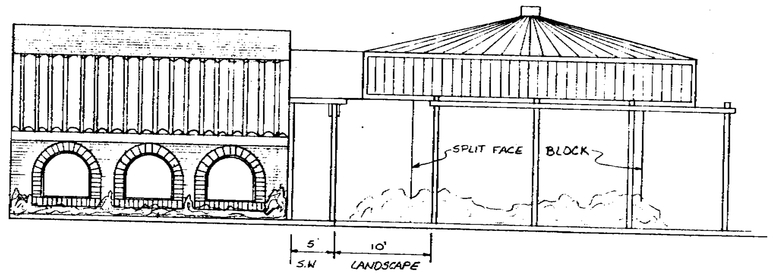


ELEVATION @ REAR OF NEW BLDG.
SIDE

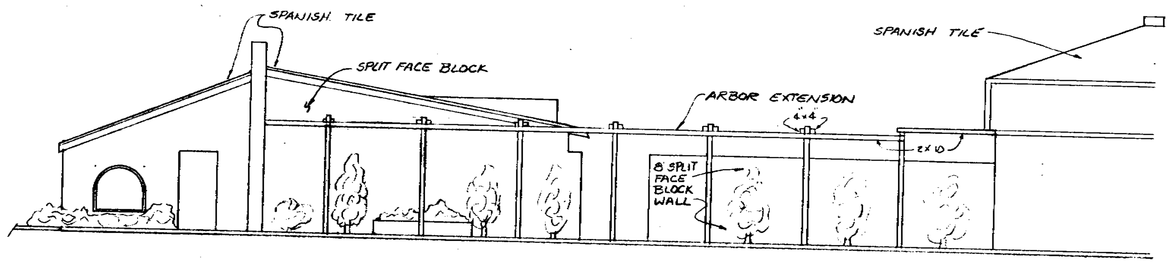
ELEVATION @ SIDE OF BLDG.
FRONT

ARBOR DETAIL
N.T.S.

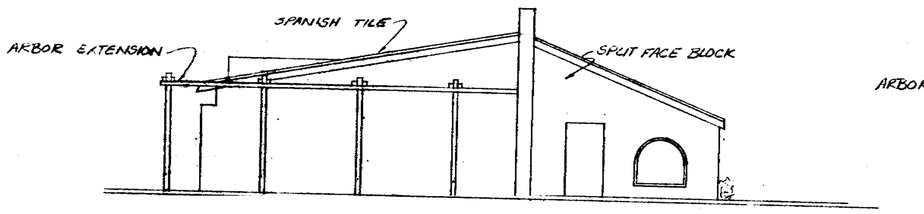
NOTES:
1) ROOF - SPANISH TILE RED
2) EXTERIOR - TAN - SPLIT FACE BLOCK
3) TRIM - DARK BROWN
ARBOR EXTENSION TO MATCH EXISTING



FRONT ELEVATION



SIDE ELEVATION



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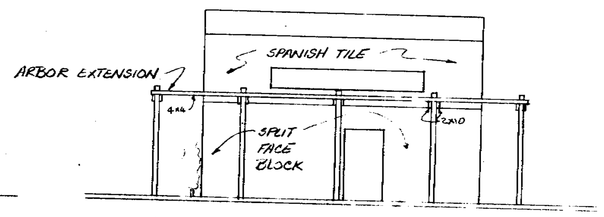


REAR ELEVATION

42

REVISIONS	BY
8-7-79	EE
8-4-80	EB

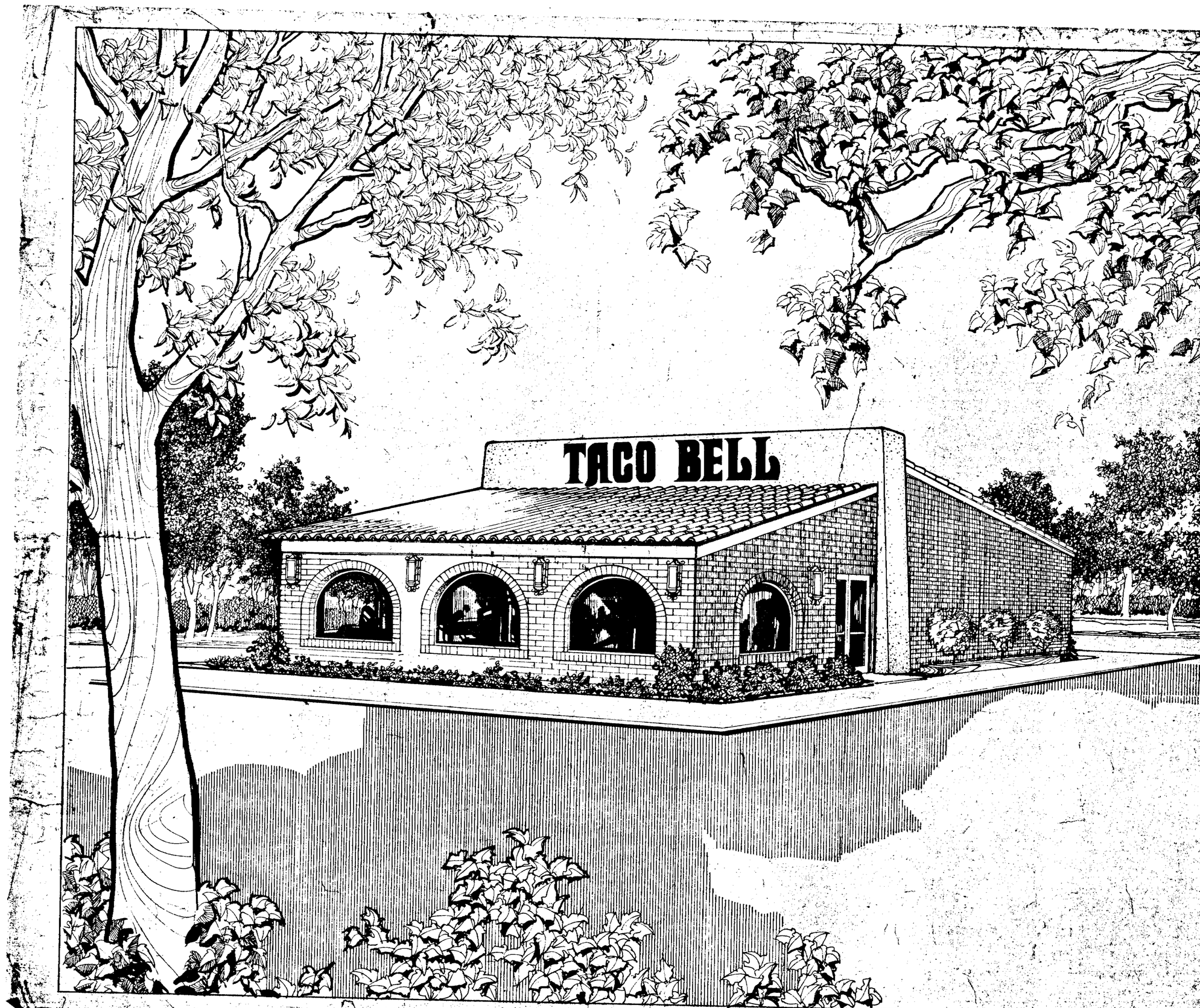
Michael J. Majors Civil Engineers, Inc.
2500 Old Crow Canyon Road, Suite 428
San Ramon, California 94583
(415) 820-2423

REGISTERED PROFESSIONAL ENGINEER MICHAEL J. MAJORS STATE OF CALIFORNIA

ELEVATION FOR TACO BELL
CAMDEN AND KOOSER, SAN JOSE, CALIFORNIA

22941 '0.88

Date 7-9-79
Scale NO SCALE
Drawn BURDUE
Job 79-513-6
Sheet 1



REGISTERED PROFESSIONAL ENGINEER
MICHAEL J. MAJAN
DATE

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A-2 FOUNDATION PLAN AND DETAILS
A-3 FLOOR PLAN AND SCHEDULES
A-4 ROOF FRAMING PLAN AND DETAILS
A-5 ELEVATIONS AND DETAILS
A-6 BUILDING AND WALL SECTIONS
A-7 INTERIOR ELEVATIONS AND DETAILS

E-1 REFLECTED CEILING PLAN
E-2 ELECTRICAL PLAN

M-1 MECHANICAL PLAN

P-1 PLUMBING PLAN AND ISOMETRICS

EQ-1 EQUIPMENT PLAN AND DETAILS

43

carlson, seekatz, inc.
ARCHITECTS
CHICAGO DEERFIELD

TACO BELL

REVISIONS
12-14-79

BUILDING TYPE
29-54 SJ

TACO BELL JOB NO.

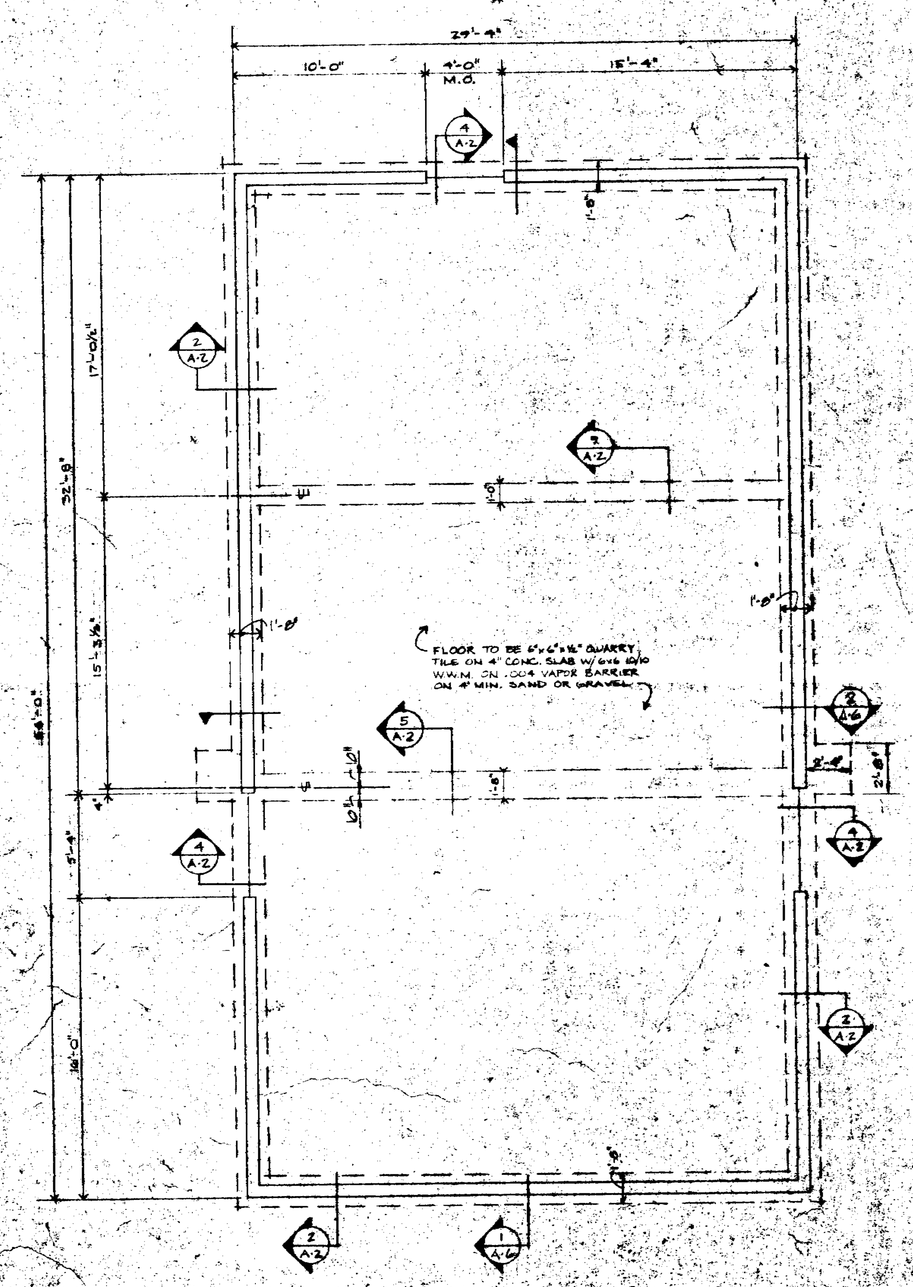
JOB NUMBER
79-20

DATE
5-25-79

SHEET NUMBER
A-1

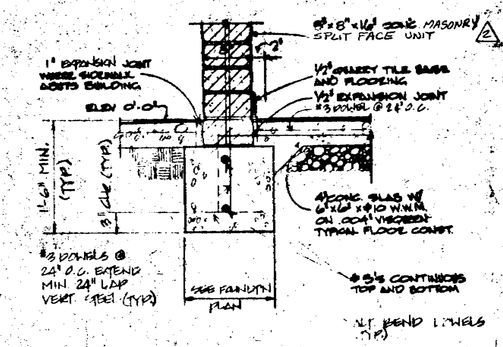
SJ Job# 479-5-19

79-613

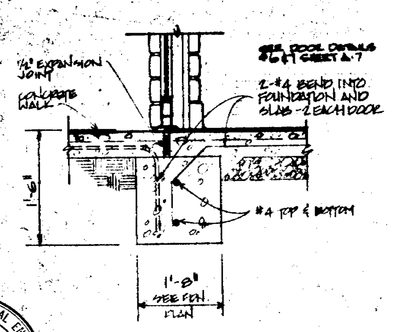


FOUNDATION PLAN
SCALE: 1/4"=1'-0" (1/A-2)

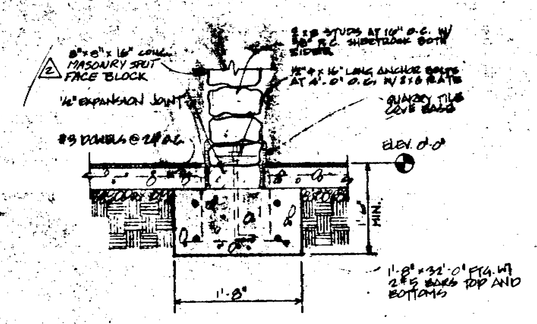
NOTE:
SEE SITE PLAN FOR LOCATION OF WALKS, CURBS, HANDICAP RAMPS, & OTHER MISC. SITE WORK.
ALL FLOOR SLABS TO BE PROPERLY PITCHED TO FLOOR DRAINS.



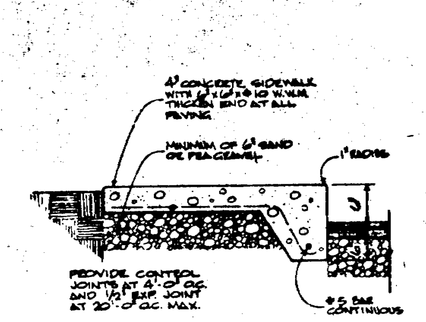
FOUNDATION AT WALL
1"=1'-0" (2/A-2)



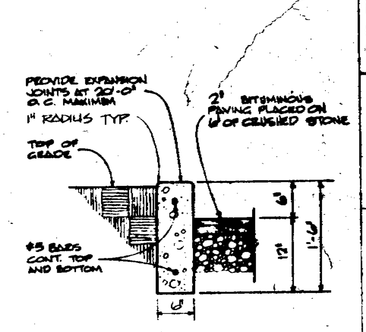
FOUNDATION AT DOORS
1"=1'-0" (4/A-2)



FOUNDATION @ DINING ROOM WALL
1"=1'-0" (8/A-2)



SIDEWALK DETAIL
1"=1'-0" (6/A-2)



CURB DETAIL
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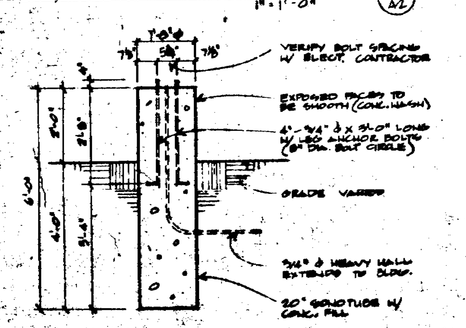
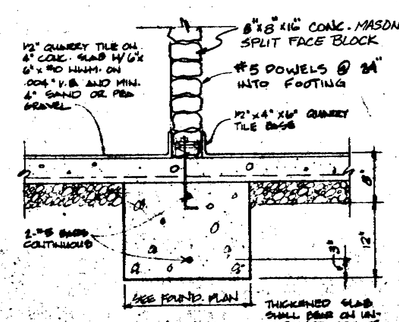


NOTE:
SEE LIGHT FIXTURE SCHEDULE SHEET E1 FOR LIGHT & POLE

LIGHT POLE BASE
SCALE: 1/2"=1'-0" (5/A-2)



THICKENED SLAB DETAIL
1"=1'-0" (9/A-2)

44

Carlson/Seekatz, Inc.
ARCHITECTS
525 N. Cass Ave. Suite 110
Westmont, Illinois 60559
(312) 325-5700

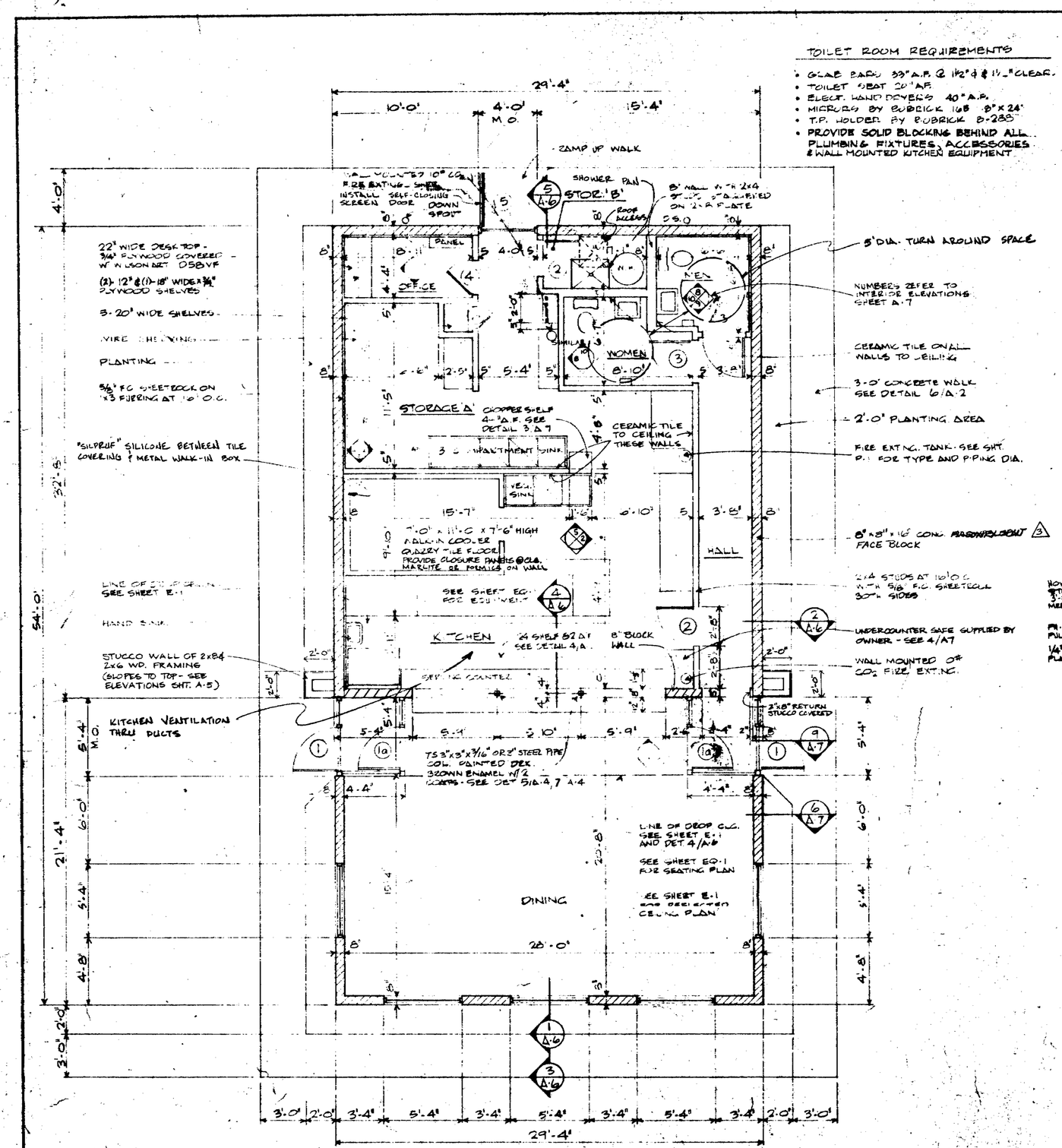
TACO BELL
1312 N. Clybourn Avenue
Chicago, Illinois 60610

REVISIONS
12-14-79
8-4-80

22941 1081

BUILDING TYPE
29-54-SJ
TACO BELL JOB NO.
JOB NUMBER
79-28
DATE
3-25-79
SHEET NUMBER
A-2

79-615



FLOOR PLAN 1/4" = 1'-0" (1/A.3)

TOILET ROOM REQUIREMENTS

- GLAB BADU 33" A.F.F. @ 1'-2" & 1'-1" CLEAR.
- TOILET SEAT 20" A.F.
- ELECT. HAND DRYERS 40" A.F.
- MIRRORS BY BOBRICK 168 8" x 24"
- T.P. HOLDER BY BOBRICK B-285
- PROVIDE SOLID BLOCKING BEHIND ALL PLUMBING FIXTURES, ACCESSORIES & WALL MOUNTED KITCHEN EQUIPMENT

ROOM FINISH SCHEDULE

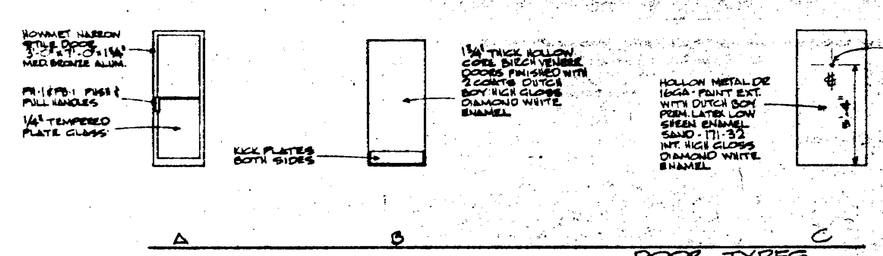
ROOM	FLOOR	BASE	WALLS	CEILING	HEIGHT	REMARKS
DINING ROOM	12"x12"x1/2" MURRAY EMBER FLAKE	4"x12"x1/2" MURRAY EMBER FLAKE COVE	4"x12"x1/2" CONC. SLUMPBLOCK	1/2" CONCORE AC-7 2x2 BSO WF 6620	8'-0" & 9'-0"	CHICAGO METALLIC CEILING GRID 290 WHITE - 1 HOUR RATED
KITCHEN	"	"	4 1/4"x4 1/4" AMER. CLEAN #471 BRIGHT WHITE	1/4" x 1/4" WHITE PRICED F.C. STOCK IN HR. GRID	8'-0" & 9'-0"	BLACK GROUT ALL QUARRY TILE (TYP)
STORAGE 'A'	"	"	5/8" F.C. SHEETROCK & #471 BRIGHT WHITE	"	9'-0"	"
STORAGE 'B'	"	"	5/8" F.C. SHEETROCK PAINTED WHITE	"	"	
OFFICE	"	"	5/8" F.C. SHEETROCK PAINTED WHITE	"	"	
HALL	"	6"x4"x1/2" MURRAY EMBER FLASH COVE	"	"	"	
WOMENS TLT.	"	"	4 1/4"x4 1/4" AMER. CLEAN #471 BRIGHT WHITE	"	"	
MENS TLT.	"	"	"	"	"	

NOTES
- ALL INTERIOR WALLS, DOORS, DOOR TRIM AND SHELVES TO BE PAINTED WITH TWO COATS OF DUTCH BOY HIGH GLOSS DIAMOND WHITE ENAM.
- ALL EXTERIOR FLASHING, FRAME DOOR AND FRAME TO BE PAINTED WITH TWO COATS DUTCH BOY PENNUBA LATEX LOW SHEEN ENAMEL - SAND 171-32
- ALL EXTERIOR WOODWORK TO BE STAINED WITH TWO COATS DUTCH BOY EXTERIOR LATEX STAIN - RUSTY BROWN 175-34
- ALL EXTERIOR SLUMPBLOCK SHALL BE SPRAYED WITH TWO COATS DRYCONE SILICONE WATER REPELLENT
- DINING RM. SHEETROCK PAINTED W/ 2 COATS DUTCH BOY FLAT LATEX TEXTURE PAINT W/ STIPPLED FINISH COLOR: PANTONE #446 C
- EXTERIOR STUCCO PAINTED W/ 2 COATS DUTCH BOY FLAT LATEX TEXTURE PAINT COLOR: PANTONE #446 C

DOOR SCHEDULE / HARDWARE SCHEDULE

MARK	SIZE	TYPE	FRAME	SIZE	BUTTS	LOCKS	CLOSERS	KICKPLATES
1	3'-0"x7'-0"x1 3/4"	A	ALUMINUM FRAME DETAIL 9/A.7	1 3/4"x4"	1PE 4 1/2"x4" BB NEP US 26D	ADAMS-ELITE M9x1890	LCN 1054 RPD MED BRONZE	NONE
2	2'-8"x6'-8"x1 3/4"	B	CECO DWS 34-16GA DETAIL 2/A.7	2"x5 3/4"	1½ PR. 4½"x4½" MCKINNEY TA2751	SCHLAGE A53PD PLY 626	NONE	BROOKLINE BLACK PLASTIC 30"x8"
3	3'-0"x6'-8"x1 3/4"	B	CECO DWS 34-16GA DETAIL 2/A.7	2"x5 3/4"	1½ PR. 4½"x4½" MCKINNEY TA2751	SCHLAGE A73PD PLY 626	LCN 1054 PRIME	BROOKLINE BLACK PLASTIC 34"x8"
4	2'-6"x6'-8"x1 3/4"	B	CECO DWS 34-16GA DETAIL 2/A.7	2"x5 3/4"	1½ PR. 4½"x4½" MCKINNEY TA2751	SCHLAGE A51PD PLY 626	NONE	BROOKLINE BLACK PLASTIC 28"x8"
5	3'-0"x6'-8"x1 3/4"	C	CECO DF 36-14 GA. DETAIL 8/A.7	2"x4 3/4"	1½ PR. 4½"x4½" MCKINNEY TA2751	SCHLAGE A70PD CHR 626	LCN 4110 SPS LINE DOME	3"x8"x16", 3/8"
6	1'-8"x6'-8"x1 3/4"	B	CECO DWS 34-16GA DETAIL 2/A.7	2"x5 3/4"	1½ PR. 4½"x4½" MCKINNEY TA2751	SCHLAGE A51PD PLY 626	NONE	BROOKLINE BLACK PLASTIC 18"x8"

NOTES
- ALL HARDWARE TO BE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.
- ALL HARDWARE TO BE US 26D FINISH UNLESS OTHERWISE SPECIFIED
- ALL INTERIOR DOORS TO BE KEYED ALIKE
- FRAMES FOR DOORS 1 AND 5 TO HAVE [illegible]



REGISTERED PROFESSIONAL ENGINEER MICHAEL J. MAJORS No. 24881 STATE OF CALIFORNIA

CARLSON/BECKETT, INC. ARCHITECTS

TACO BELL

REVISIONS
12-14-79
2-12-80
8-4-80

24881 1088

BUILDING TYPE 29-54-S.D.

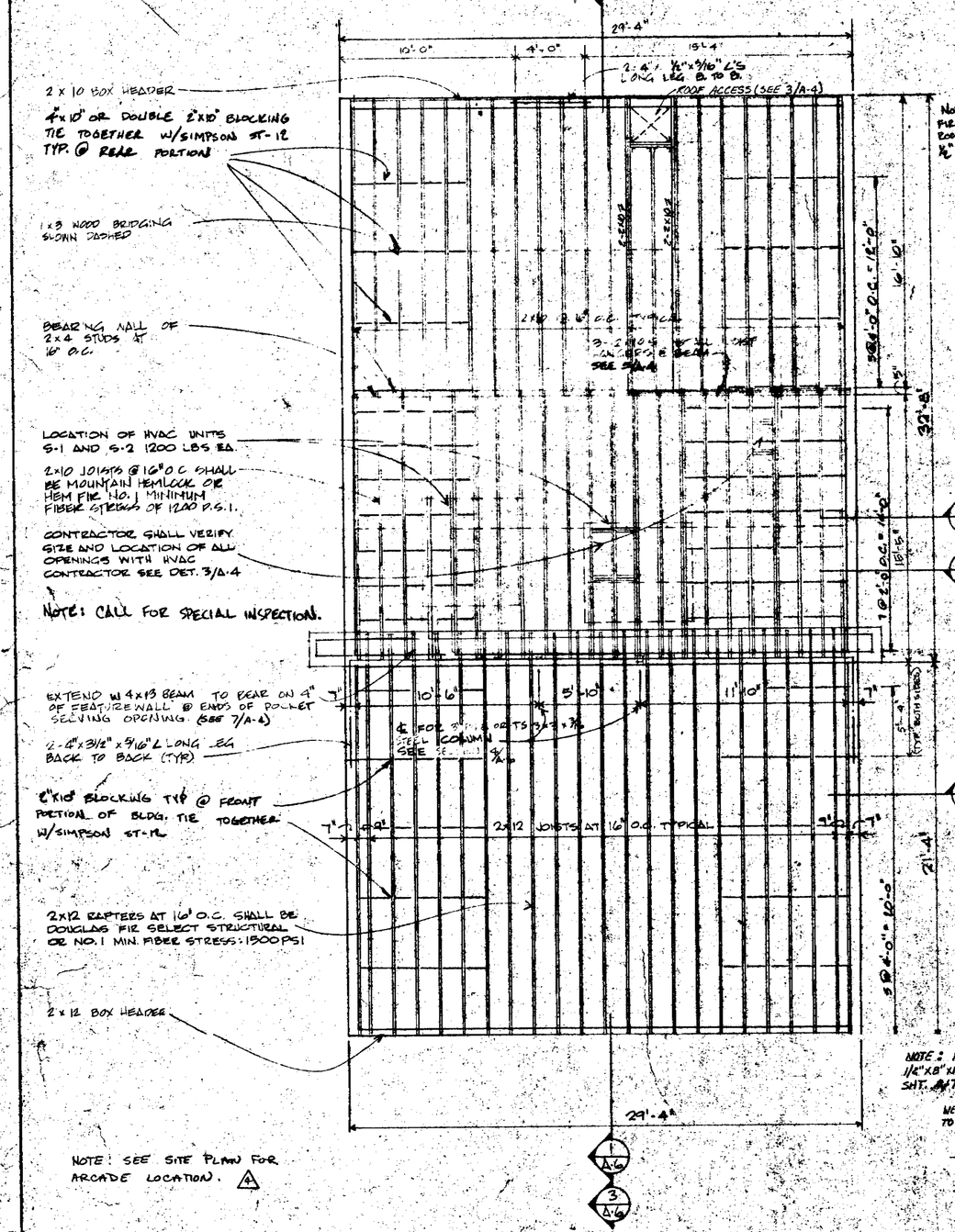
TACO BELL JOB NO.

JOB NUMBER 79-20

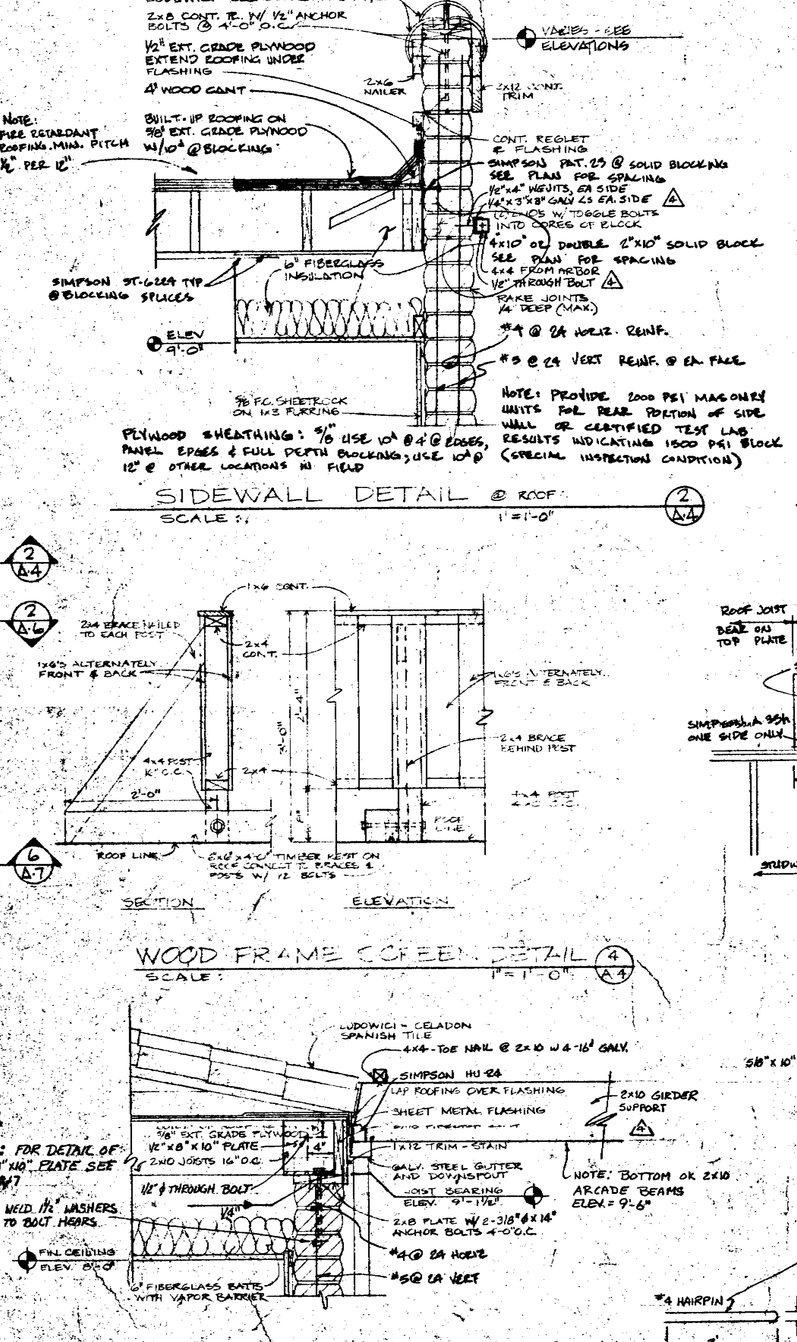
DATE 5-23-79

SHEET NUMBER A-3

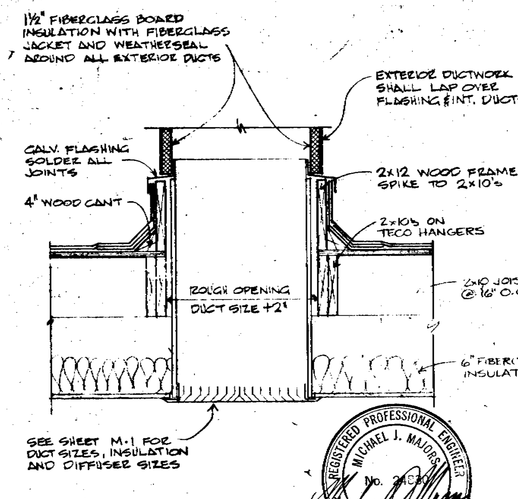
45



ROOF FRAMING PLAN 1/4"=1'-0" (1/A-4)

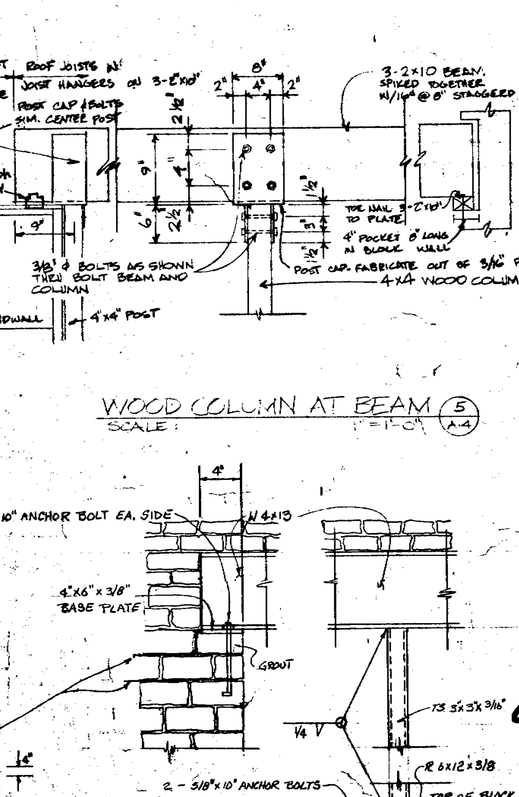


SIDEWALL DETAIL @ ROOF (2/A-4)
SCALE: 1"=1'-0"



TYPICAL ROOF OPENING DETAIL (3/A-4)
SCALE: 1"=1'-0"

WOOD FRAME SCREEN DETAIL (4/A-4)
SCALE: 1"=1'-0"



WOOD COLUMN AT BEAM (5/A-4)
SCALE: 1"=1'-0"

GUTTER DETAIL (6/A-4)
SCALE: 1"=1'-0"

4 x 13 BEAM (7/A-4)
1"=1'-0" SCALE

carlson/seekatz, inc. ARCHITECTS
5455 N. LEMAI AVENUE
CHICAGO ILL. 60630
(312) 775-7255

TACO BELL
5455 N. CAS AVE. SUITE 110
825 N. CASS AVE. SUITE 110
WESTMONT, ILLINOIS 60559
630 968 0400

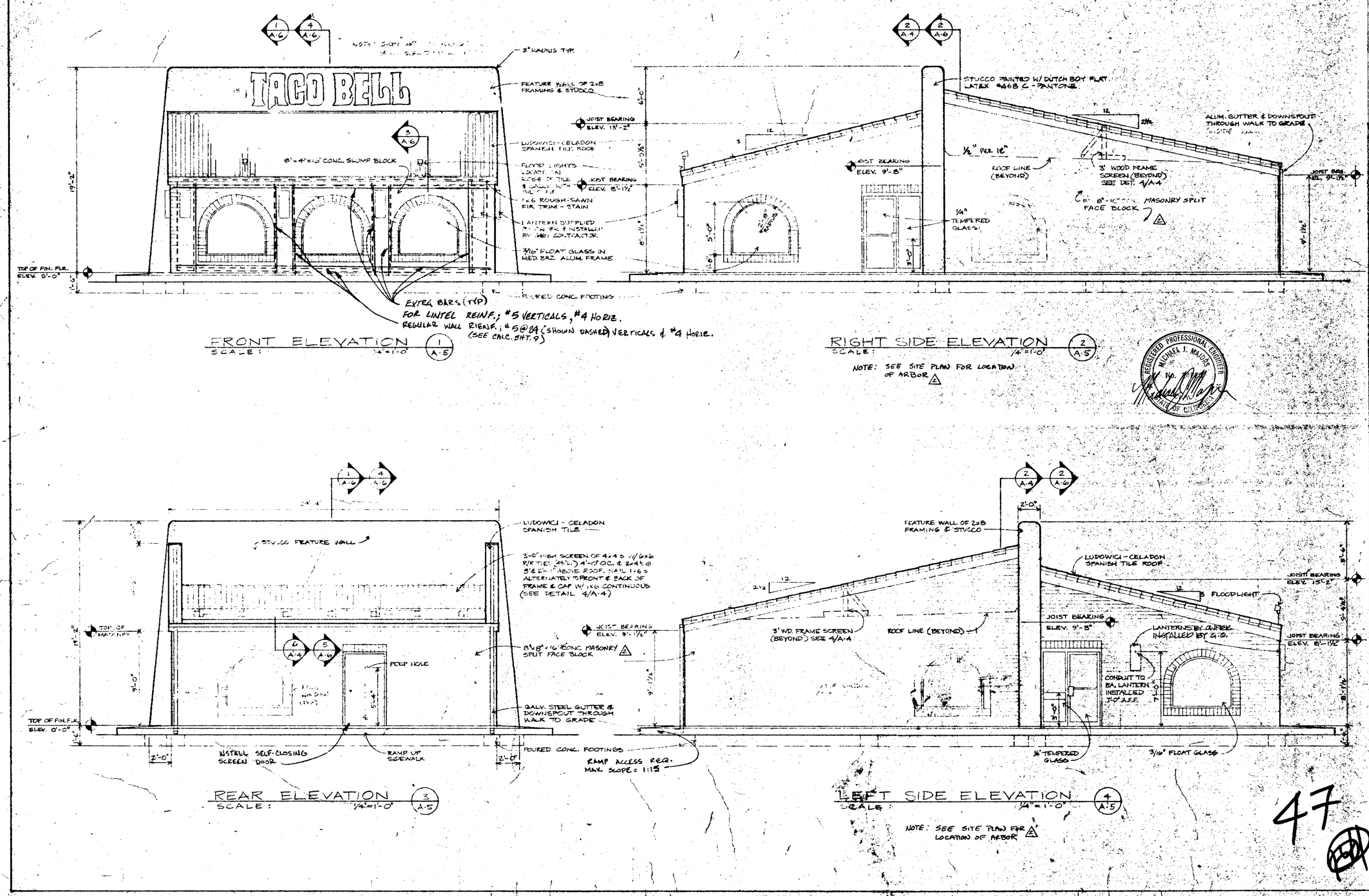
REVISIONS
12-14-79
2-12-80
2-25-80
8-4-80

46

22941 T.DAT.

BUILDING TYPE: 29-54-SJ
TACO BELL JOB NO.
JOB NUMBER 79-29
DATE 5-25-79
SHEET NUMBER A-4

79-613



carlson/seekatz, inc.
ARCHITECTS

TACO BELL
4208 N. CLASS AVE. SUITE 110
WESTMONT, ILLINOIS 60559

12-14-79
8-4-80

BUILDING TYPE
29-54-SJ

TACO BELL JOB NO

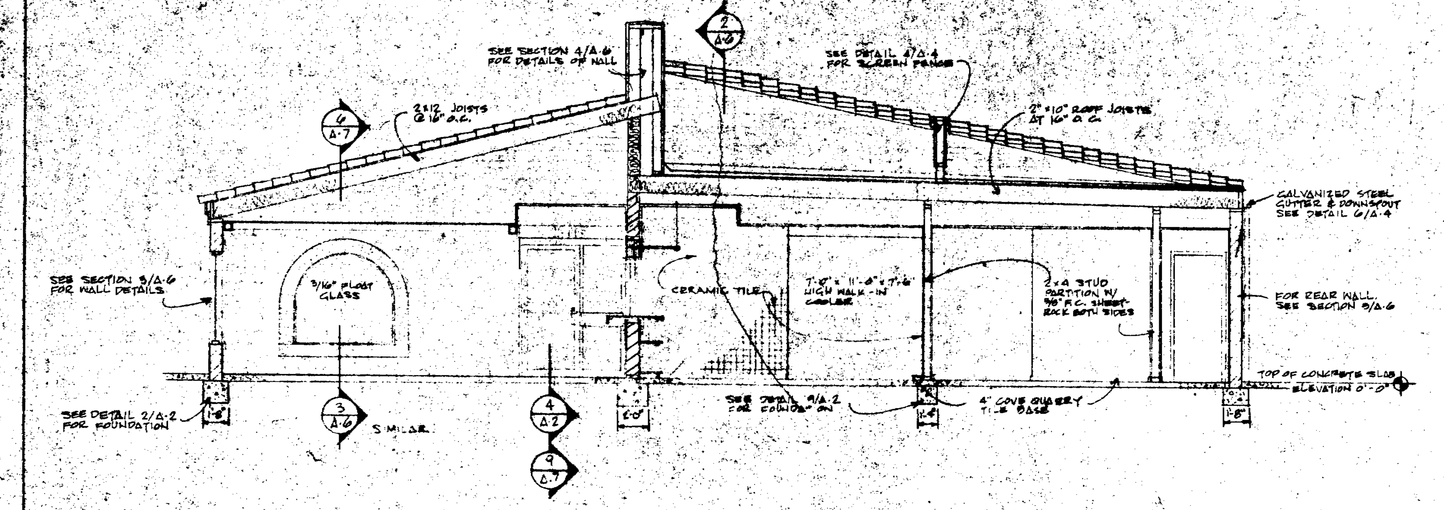
JOB NUMBER
79-28

DATE
5-25-79

SHEET NUMBER
A-5

47

79-615



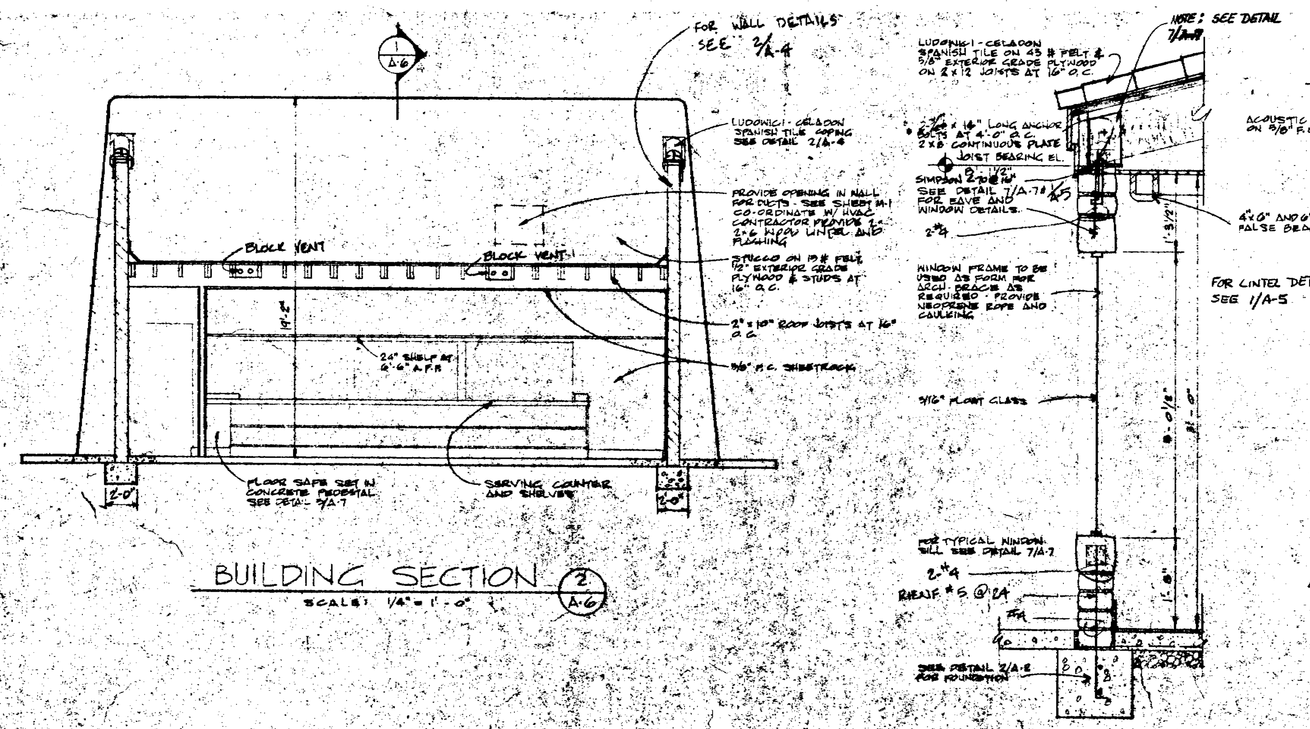
BUILDING SECTION 1 A-6

SCALE: 1/4" = 1'-0"

⚠ NOTE: SEE SITE PLAN FOR LOCATION OF ARBOR

BUILDING SECTION 2 A-6

SCALE: 1/4" = 1'-0"

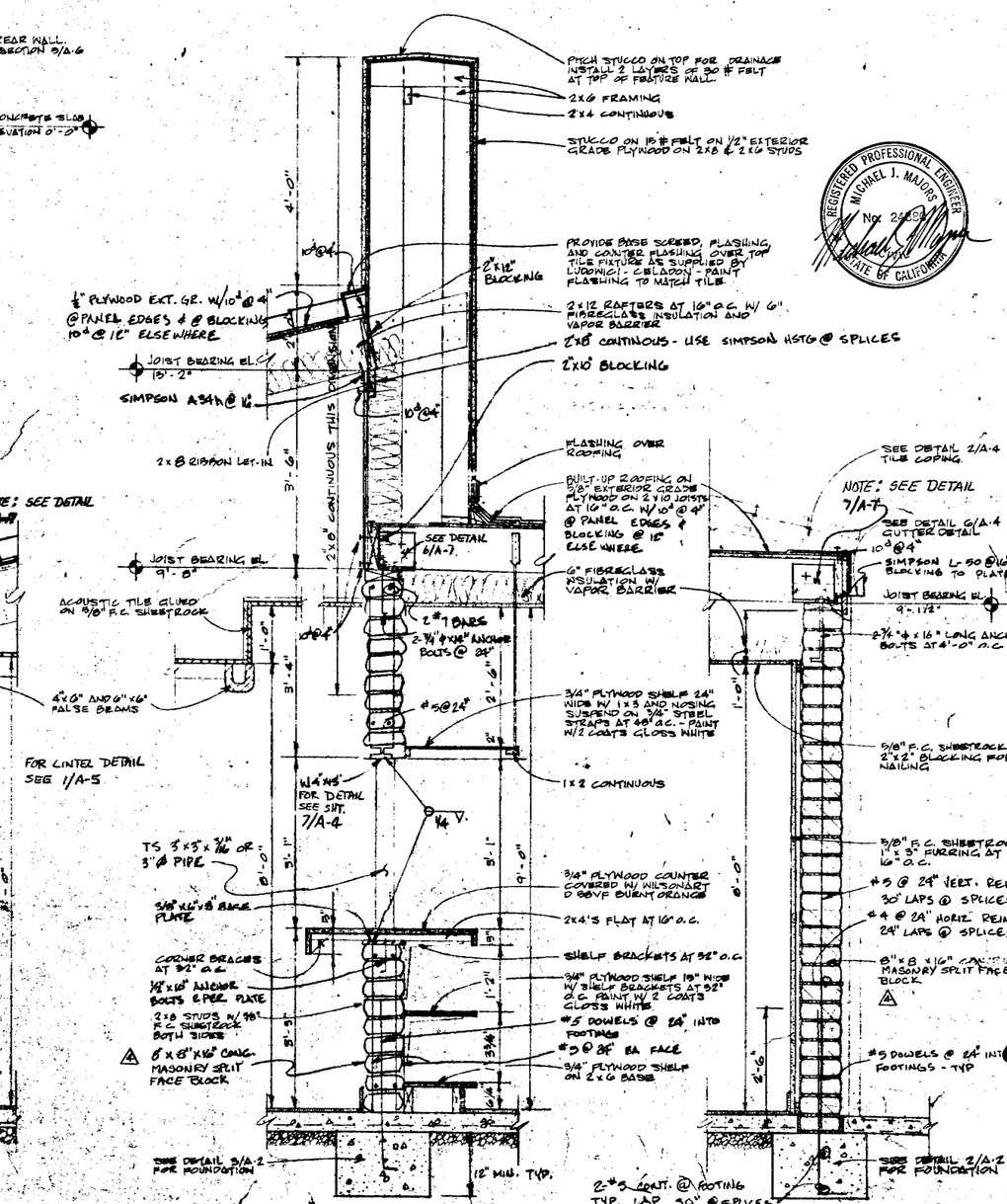


WALL SECTION 3 A-6

SCALE: 3/4" = 1'-0"

WALL SECTION 4 A-6

SCALE: 3/4" = 1'-0"



WALL SECTION 5 A-6

SCALE: 3/4" = 1'-0"

⚠ NOTE: ARBOR NOT SHOWN

REGISTERED PROFESSIONAL ENGINEER MICHAEL J. MAJOR No. 23[illegible] STATE OF CALIFORNIA

carlson/seekatz, inc.
ARCHITECTS
[illegible]

TACO BELL
825 N. GLASS / TEL. SUITE 110
WESTMONT, ILLINOIS 60559

12-14-79
2-12-80
2-25-80
8-4-80

48 22841 1089

BUILDING TYPE
29-54-SJ

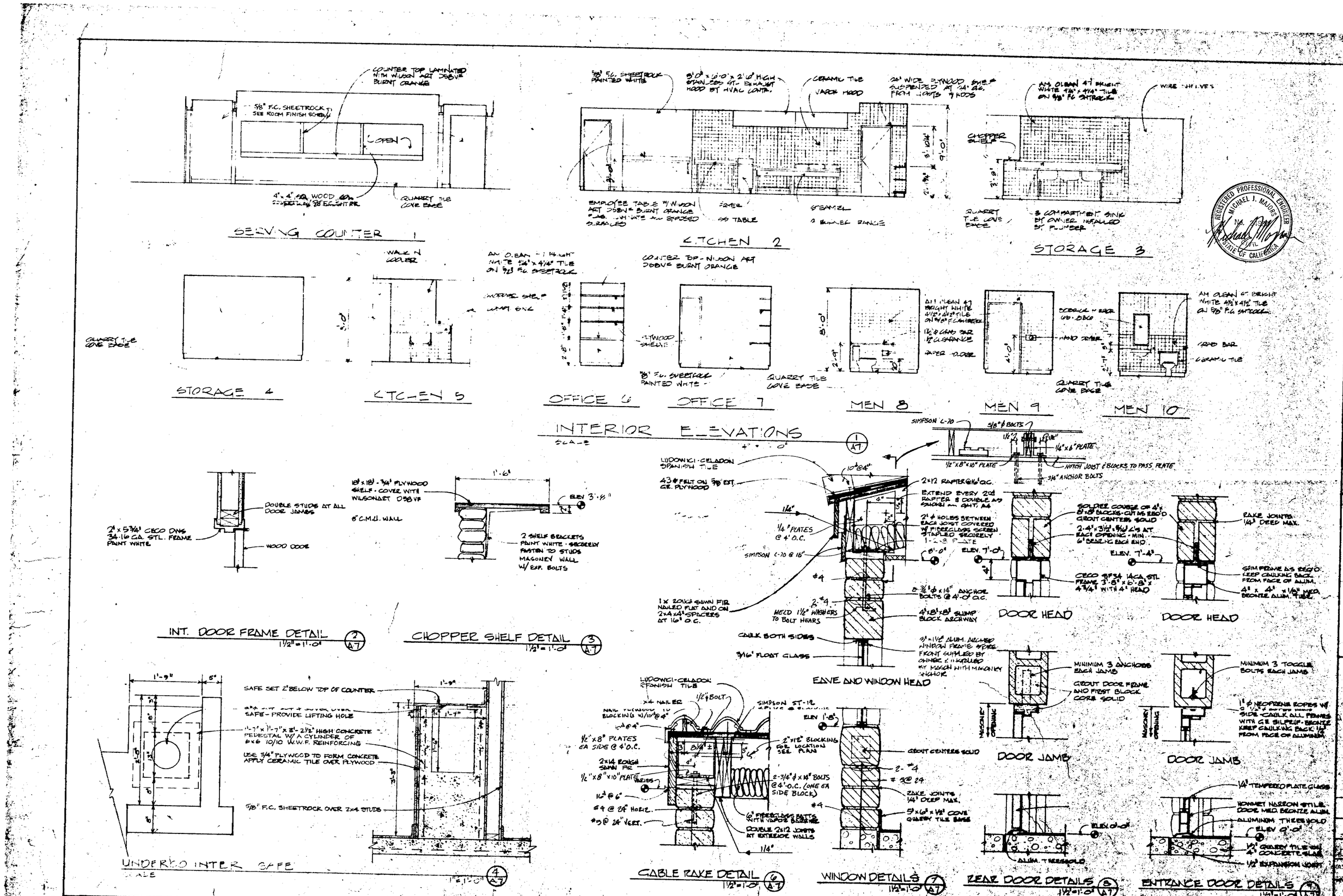
TACOBELL JOB NO.

JOB NUMBER
79-28

DATE
5-25-79

SHEET NUMBER
A-6

79-6138



REGISTERED PROFESSIONAL ENGINEER
MICHAEL J. MAJORS
STATE OF CALIFORNIA

carlson/seekatz, inc.
ARCHITECTS
1 S 361 WINDSOR DR.
OAKBROOK TERRACE, ILL. 60181

TACO BELL
829 N. CASS AVE. SUITE 110
WESTMONT, ILLINOIS 60559

REVISIONS
12-14-90
2-25-88

22841 1081

49

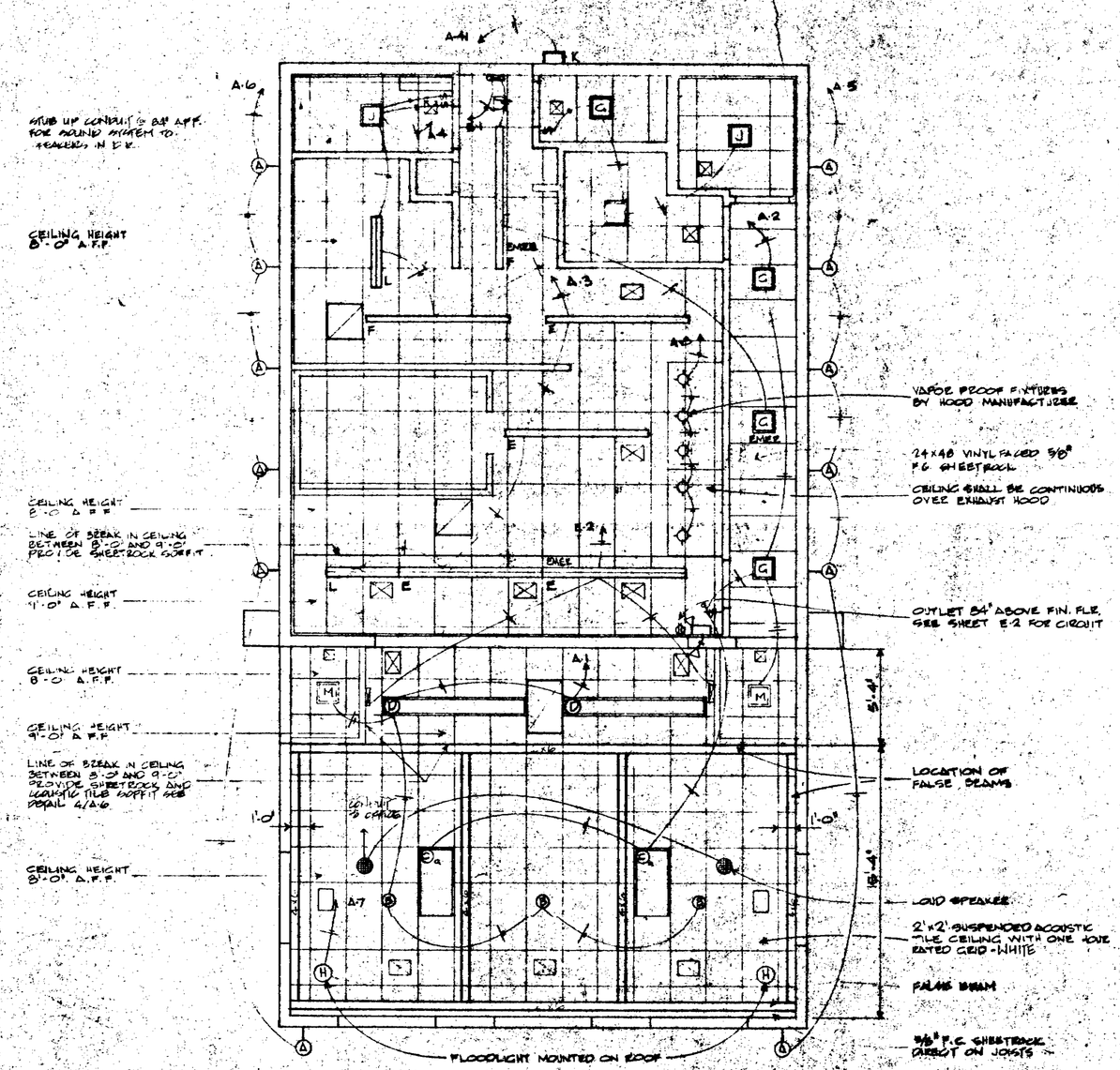
BUILDING TYPE
29-54-51

TACO BELL JOB NO.

JOB NUMBER
19-20

DATE

SHEET NUMBER
A-7



REFLECTED CEILING PLAN (E-1)
1/4" = 1'-0"

LIGHT FIXTURE SCHEDULE

SYMBOL	MF'R & CATALOG NO.	LAMP	FIXTURE TYPE	MOUNTING	REMARKS
	AS SPECIFIED BY OWNER	1-A-19	LANTERN	SUSPENDED	SUPPLIED BY G.C.
	AS SPECIFIED BY OWNER		CHANDELIER	CEILING	SUPPLIED BY G.C.
	LIGHTRON LF6-440 2x4 LBA	4-40W W-W	2'x4' FLUORESCENT	RECESSED	
	LIGHTRON LF6-240-1-BT-LBA	4-F40 WW	1'x8' FLUORESCENT	RECESSED	
	LIGHTRON 16-496SL-ETL	4-F96T12 WW	8' FLUOR. STRIP	SURFACE	PROVIDE CLEAR ACRYLIC SLEEVE ALL FLUOR. TUBE
	LIGHTRON 125-296SL-ETL	2-F96T12WW	8' FLUOR. STRIP	SURFACE	PROVIDE CLEAR ACRYLIC SLEEVE ALL FLUOR. TUBES
C	ATLIGHT 9111-S-W-DL	1-100W A-19	SQUARE DOWNLIGHT	RECESSED	
H	GTE SYLVANIA 32F-500-103	500W QUARTZ	FLOODLIGHT	SURFACE	MOUNT ON ROOF
	ATLIGHT 16C11-CHS.	2-20W T 12 DC	EXIT LIGHT	SURFACE	MOUNT ON CEILING
	McGEAN EDISON FL 1051	250W MERCURY	PARKING LOT LIGHT	16' POLE	BRONZE
	DUAL LIGHT 120 OAC 210 8990-S-V.G	2-38W FRE.36	WALL BRACKET	SURFACE	BAT. OPER. EMER. LITE
J	BROWN #696	1-100W A19	FAN/LITE COMBO	RECESSED	SUPPLIED BY HVAC CONT.
K	LIGHTRON VP 88H	1-100W MV	WALL LIGHT	SURFACE	10'-0" A.F.F.
	LIGHTRON 16-440 R9-ETL	4-F40 WW	4' FLUOR. STRIP	SURFACE	PROVIDE CLEAR ACRYLIC SLEEVES ALL FLUOR. TUBE
M	ATLIGHT 9111-S-W-DL	1-60W A-19	SQUARE DOWNLIGHT	RECESSED	

ELECTRICAL NOTES

1. ALL ELECTRICAL WORK TO CONFORM TO ALL LOCAL CODES AND LOCAL UTILITY COMPANY REQUIREMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF PARKING LOT LIGHTS AND PYLON SIGNS ON INDIVIDUAL SITE PLAN.
3. CONTRACTOR SHALL VERIFY SERVICE VOLTAGE WITH UTILITY COMPANY AND REVISE AND BALANCE PANEL AS REQUIRED.
4. ALL REMOTE EQUIPMENT ON ROOF SHALL HAVE DISCONNECT SWITCH AT EACH PIECE OF EQUIPMENT.
5. ALL EXTERIOR RECEPTACLES, JUNCTION BOXES & EQUIPMENT SHALL BE WEATHERPROOF.
6. ALL CONDUIT & JUNCTION BOXES ARE TO BE RECESSED WHERE POSSIBLE AND ALLOWED BY CODE.
7. ISOLATE ALL CONDUIT PASSING THROUGH WALL IN COOLER. FILL AROUND CONDUIT WITH DUCT-SEAL WHERE IT PASSES THROUGH COOLER WALL OR CEILING.
8. CONTRACTOR HAS THE OPTION OF LOCATING THE CONDUIT FOR THE MOST EFFICIENT WIRING. HOWEVER, HE SHALL CONSULT ALL DRAWINGS FOR INTERFERENCES AND DIFFICULTIES PRIOR TO ANY INSTALLATION.
9. CONTRACTOR TO FURNISH AND INSTALL 2-8"x8" OSM LOUDSPEAKERS WITH GRILLE. LOCATE AS SHOWN ON PLAN. STUB OUT LOW VOLTAGE WIRING IN OFFICE FOR FUTURE MUSIC SYSTEM. RUN IN 3/4" CONDUIT.
10. REFER TO MECHANICAL DRAWINGS FOR THE LOCATION OF THERMOSTATS, UNITS AND OTHER SPECIAL EQUIPMENT. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUITS, JUNCTION BOXES, AND DISCONNECT SWITCHES. THERMOSTAT AND CONTROL WIRING SHALL BE INSTALLED BY THE HVAC CONTRACTOR.
11. PANEL BOARD AND SERVICE SWITCHES SHALL BE SQUARE D, PETERSON PANEL OR PANELS APPROVED BY ARCHITECT AND TACO BELL. CIRCUIT BREAKERS SHALL BE UL APPROVED FOR USE AS SWITCHES.

REGISTERED PROFESSIONAL ENGINEER
MICHAEL J. MAJORS
No. 23631
STATE OF CALIFORNIA

50

22941 1088

79-613

carlson/seekatz, inc.
ARCHITECTS
[illegible] N. LINCOLN AVE
CHICAGO, ILLINOIS [illegible]

TACO BELL
525 N. CASS AVE SUITE 110
WESTMONT, ILLINOIS 60559

REVISIONS
12-14-79

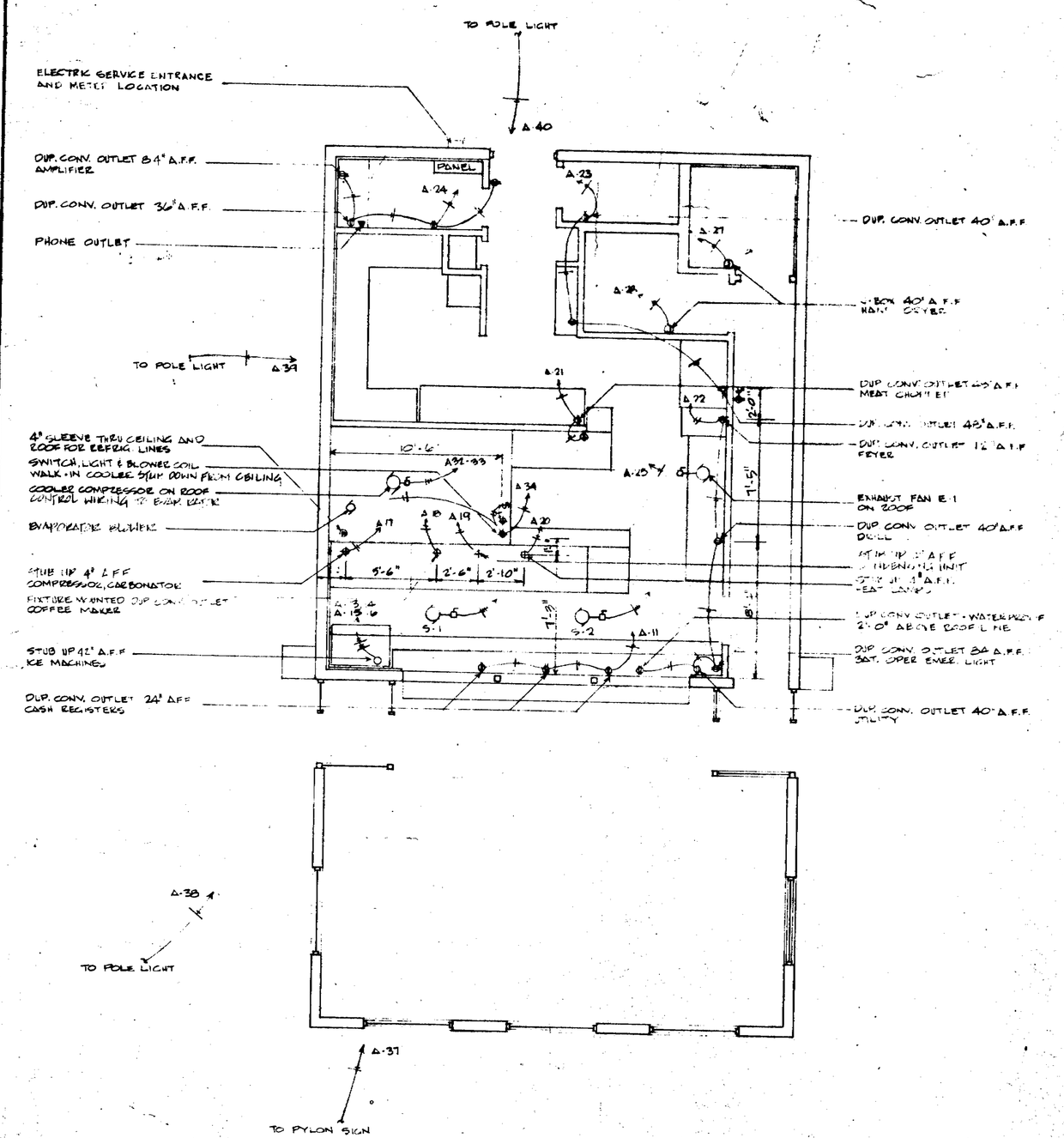
BUILDING TYPE
29-54-SJ

TACO BELL JOB NO.

JOB NUMBER
79-20

DATE
5-25-79

SHEET NUMBER
E-1



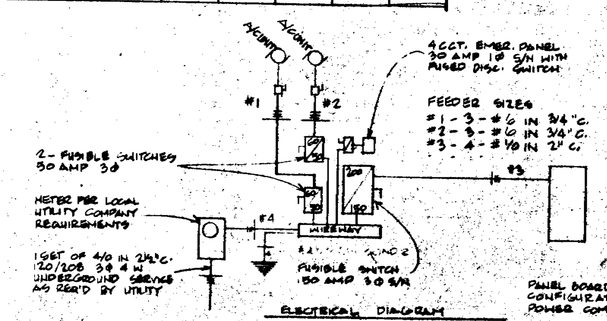
ELECTRICAL FLOOR PLAN
1/4" = 1'-0"
E-2

PANEL BOARD 'A' 120/208, 3Φ/4W, 225 A MAINS

CCT. NO.	DESCRIPTION	VOLTS	TRIP	POLE	WATTS	CCT. NO.	DESCRIPTION	VOLTS	TRIP	POLE	WATTS
1	LIGHTING	120	15	1	1020	22	DELL & UTILITY	120	20	1	800
2	"	"	15	1	700	23	RECEPTACLES	"	20	1	600
3	"	"	15	1	960	24	RECEPTACLES	"	20	1	750
4	"	"	15	1	870	25	EXHAUST FAN E-1	"	20	1	700
5	"	"	15	1	900	26	SPARE	"		1	
6	"	"	15	1	600	27	HAND DRYER	"	20	1	1500
7	"	"	15	1	1000	28	HAND DRYER	"	20	1	1500
8	"	"	15	1	500	29	SPARE			1	
9	SPARE	"		1		30	SPARE	"		1	
10	SPARE	"		1		31	SPARE	"		1	
11	REGISTERS	"	20	1	1000	32	COOLER				
12	SPARE	"		1		33	COMPRESSOR	208	20	2	2700
13	ICE MACHINE	208	20	2	1000	34	BLOWER & LIGHTS	120	20	1	500
14						35	SPARE	"		1	
15	ICE MACHINE	208	20	2		36	SPARE	"		1	
16	(FUTURE)					37	PYLON SIGN	"	20	1	800
17	CARBONATOR COMPR.	120	20	1	600	38	POLE LIGHT	"	20	1	800
18	COFFEE MAKER	"	20	1	1600	39	POLE LIGHT	"	20	1	800
19	[illegible]	"	[illegible]	1	[illegible]	40	POLE LIGHT	"	20	1	800
20	MEAT LAMPS	"	20	1	[illegible]	41	REAR LIGHT	"	15	1	100
21	MEAT CHOPPER	"	20	1	1200	42	SPARE	"		1	

MAIN DISTRIBUTION PANEL 'DP' 120/208V, 3Φ/4W 200 AMP

CCT. NO.	DESCRIPTION	VOLT	PHASE	POLE	FUSE	AMPS A	AMPS B	AMPS C
1	A/C UNIT S-1	208	3	3	50	31.7	31.7	31.7
2	A/C UNIT S-2	208	3	3	50	31.7	31.7	31.7
3	PANEL 'A'	120/208	3	3	150	67.1	67.1	67.1
	SPARE							



ELECTRICAL DIAGRAM

PANEL BOARDS AND SERVICE SWITCHES CONFIGURATION PER LOCAL CODES & POWER COMPANY REQUIREMENTS

CONTACT THE LOCAL UTILITY FOR UNDERGROUND SERVICE REQUIREMENTS

REGISTERED PROFESSIONAL ENGINEER MICHAEL J. MAJOWICZ No. 24960 STATE OF CALIFORNIA

CARLSON/SECKATZ, INC. ARCHITECTS
[illegible] E. LEMON AVE. [illegible]
CHICAGO, ILL. [illegible]

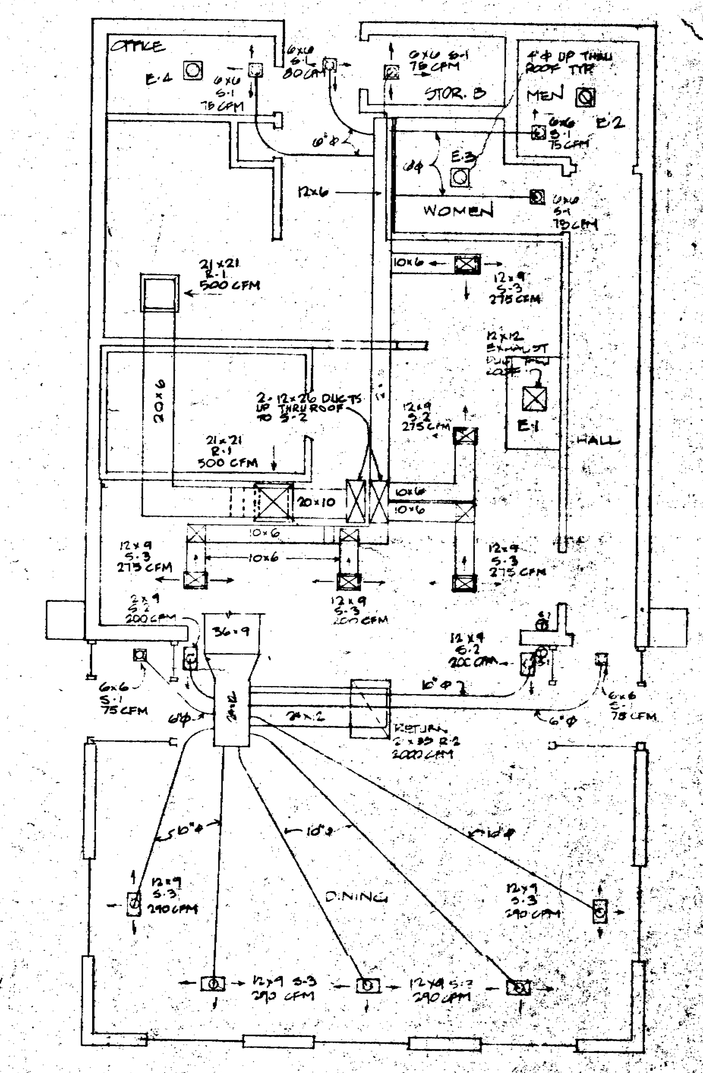
TACO BELL
[illegible] 2 0 - 5 7 0 0
4259 N. CASS AVE. SUITE 110
WESTMONT, ILLINOIS 60559

REVISIONS
12-14-79

BUILDING TYPE
29-54-SJ
TACO BELL JOB NO.
[illegible]
JOB NUMBER
79-20
DATE
11-23-79
SHEET NUMBER
E-2

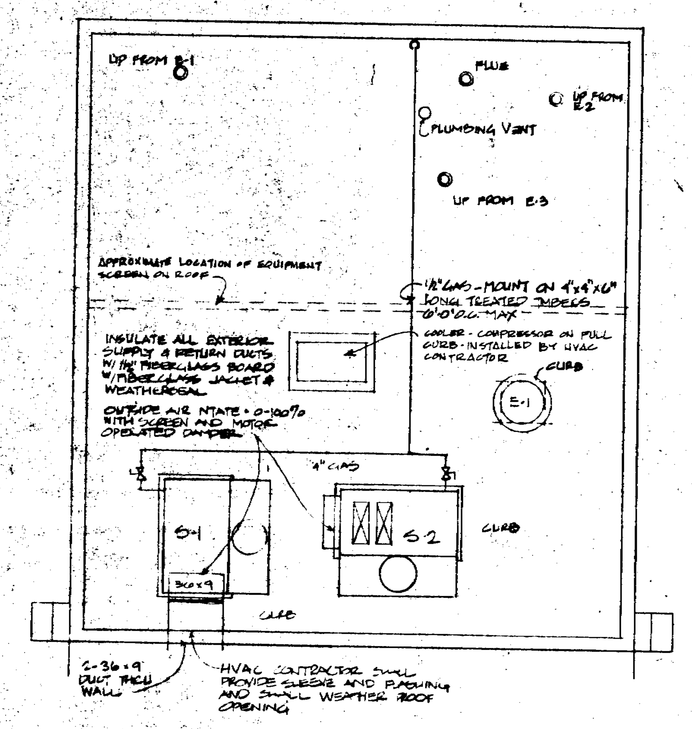
51

79-45



HVAC FLOOR PLAN

SCALE 1/4" = 1'-0"



HVAC ROOF PLAN

SCALE 1/4" = 1'-0"

EQUIPMENT SCHEDULE

S-1 Trane #SPCA 308H gas fired heating, electric cooling roof top unit, 2000 CFM @ 1/2" ESP, 208V/240V/3ø/60 HZ. Cooling capacity 60,000 BTU @ ARI standard conditions, heating capacity 150,000 BTU input, 113,000 BTU output. Unit to have horizontal discharge and return, full curb, standard 40° ambient operation lifting lugs, adjustable drive, throwaway filters 2 stage gas valve, electronic ignition, thermostat with guard, central control panel, 0-100% screened outside air intake with modulating type motor operated damper with potentiometer control. Potentiometer shall be mounted on a central control panel. Outside air damper to close automatically when unit is off and during unoccupied cycle. 1200 lbs.

S-2 Same as above except vertical discharge and 1680 CFM

F-1 Acme PU166 Kitchen Hood Exhaust 3300 CFM @ 3/4" SP, 1/4 HP, 115/1ø/60. Complete with disconnect switch, grease catcher, cooling tubes, heat shields, backdraft damper. TO COMPLY WITH UMC 1003

E2 BROAN DELUXE FAN/LIGHT
E3 COMBINATION - MODEL 696
E4 100 CFM 115V/1ø/60 HZ

REGISTERED PROFESSIONAL ENGINEER MICHAEL J. MAJORS No. STATE OF CALIFORNIA

GENERAL NOTES

Receive, unload, and safely store HVAC curbs shipped to job site.

Cut, frame, and patch all required roof, floor and wall openings.

Furnish and install necessary supports, (lintels) for roof, floor and wall openings.

Rectangular ductwork to be per SMACNA recommendations with interior ductwork to have 1/2" fiberglass insulation. Exposed ducts to have 1 1/2" fiberglass insulation with fiberglass jacket and weatherseal. Round duct to be wire reinforced type 4K with 1" insulation.

DIFFUSERS AND REGISTERS TO BE TUTTLE & BAILEY OR EQUAL
S-1 6x6 MS-3-W1 W/MT DAMPER
S-2 12x9 MS-26L-W1 W/MT DAMPER
S-3 12x9 MS-35-W1 W/MT DAMPER
R-1 21x21 MF-4-W1
R-2 21x35 MF-4-W1.

Furnish mason with metal sleeves for all ductwork through masonry.

ELECTRICAL NOTES

Provide and install all required power wiring and low voltage control wiring, including final connections to all electric operated equipment supplied by HVAC Contractor, air conditioning units, exhaust fans, master control panels, etc.

PLUMBING NOTES

Furnish and install gas piping for HVAC system including final connections.

Furnish and install air conditioning unit condensate drain piping.

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VENTILATION SCHEDULE

	CODE REQ'MT.			ACTUAL	
ROOM	AREA	SUPPLY	EXHAUST	SUPPLY	EXHAUST
DINING	528	412	-	1050	-
KITCHEN	381	304	1800	025	1820
STOR. A	185	148	-	355	*
STOR. B	20	21		75	*
OFFICE	39	32	52	75	100
HALL	110	-		75	-
WOMEN	48	-	90	75	100
MEN	48	-	80	75	100

* RETURN THRU KITCHEN

carlson/seekatz, inc.
ARCHITECTS
(312) 775-7285
5555 N. LEMAI AVENUE
CHICAGO, ILL. 60646

TACO BELL
507 S. WILLOW SPRINGS RD.
LA GRANGE, ILLINOIS 60525

REVISIONS
12-19-79

22941 1088

BUILDING TYPE
29-54-SJ

TACO BELL JOB NO

JOB NUMBER
79-20

DATE
5-25-79

SHEET NUMBER
M-1

79-613

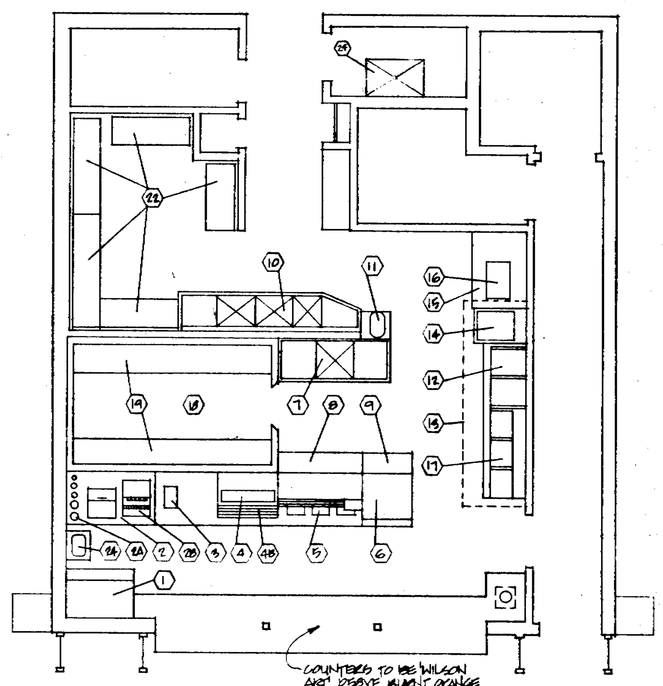
NOTES

INSTALL FIXTURES AS SHOWN, LEVEL, ALIGN FRONTS AND BOLT TOGETHER BEFORE PROVIDING ELECTRICAL AND PLUMBING HOOK-UPS

SEAL ALL EQUIPMENT W/ CLEAR SILICONE CAULK AT EDGES OF TOP AND SPLASH AT WALL AND CONNECTIONS TO OTHER EQUIPMENT

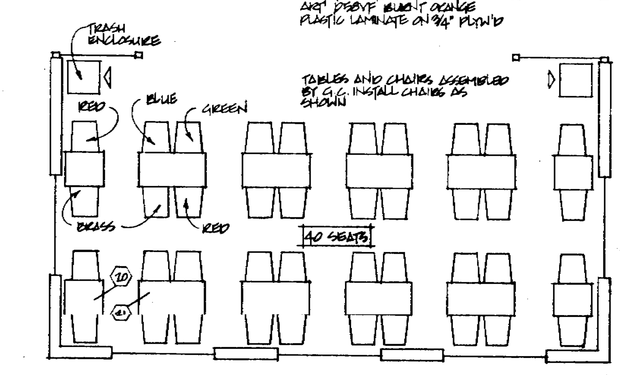
REMOVE EXCESS SILICONE WITH LACQUER THINNER

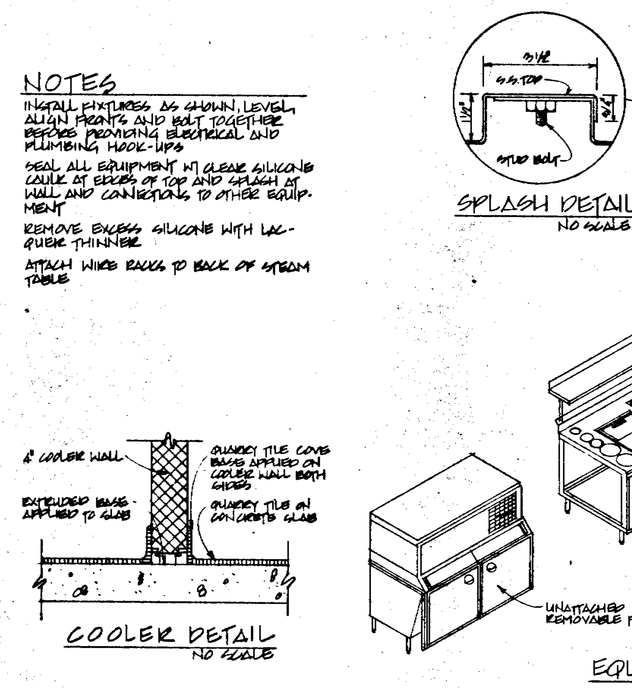
ATTACH WIRE RACKS TO BACK OF STEAM TABLE

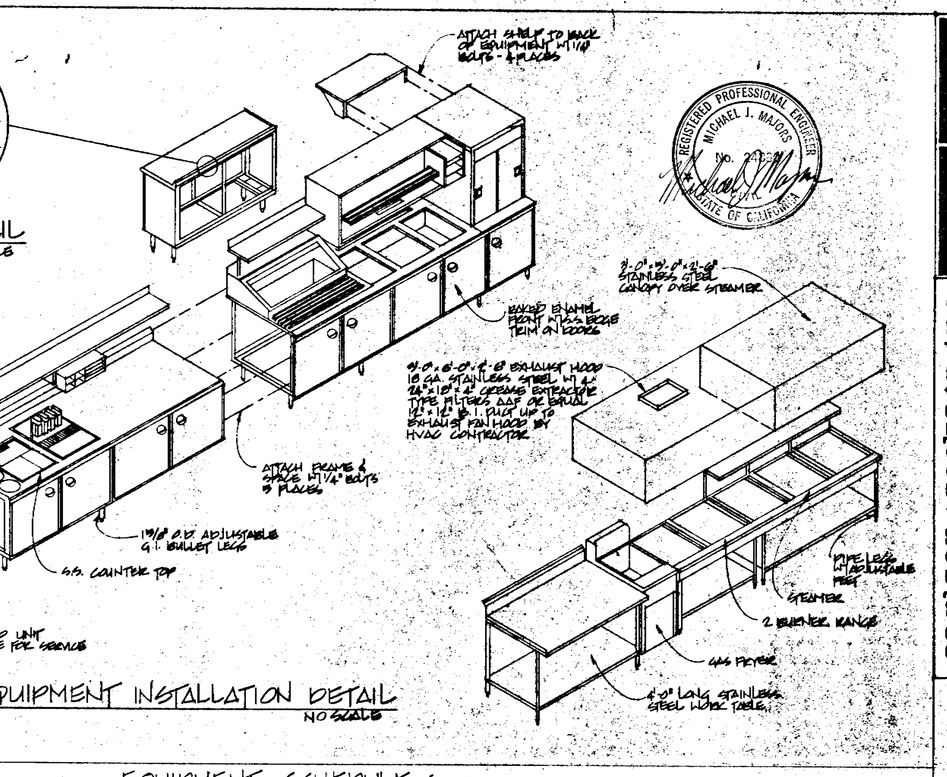


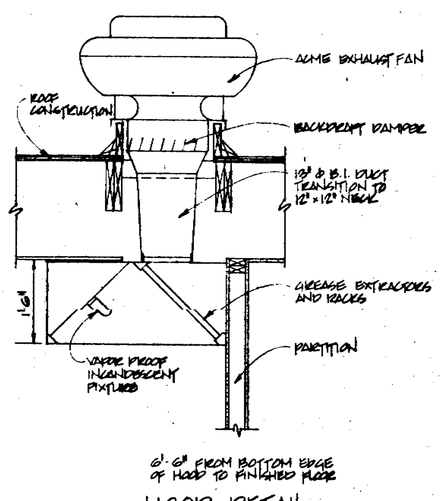
EQUIPMENT PLAN

SCALE 1/4" = 1'-0"









HOOD DETAIL

3/8" = 1'-0"

EQUIPMENT SCHEDULE (ALL ITEMS TO BE INSTALLED BY GENERAL CONTRACTOR)

NO.	QTY.	BY W.B.	BY T.B.	BY G.C.	ITEM	MANUF. & MODEL NUMBER	CW	HW	DRAIN	GAS	ELEC.	REMARKS
1	1	●			ICE MACHINE	KOLD DRAFT #638WN-S	1/2"		(10) 3/4" (2) 1/2"		20A/1/60	
2	1	●			BEVERAGE UNIT	FABRICATED	1/2"		(6) 1/4"			
2A	5	●			CUP DISPENSERS	LILY 16G, 20G, & 36G						
2B	1	●			DRINK DISPENSER				1 1/2"			
3	1		●		COFFEE MAKER	ALEX #8945					120 VOLT 20A/1/60	
4	1	●			VEG. BIN & TACO RACK	FABRICATED			1"			
4A	1	●			OVERSHELF - TABLE MOUNTED							
4B	1	●			TACO HOOP							
4C	2	●			SCRAP CANS							
5	1	●			STEAM TABLE W/ WARMING CABINET	FABRICATED		1/2"	1"	3/4" (GAS)	(2) 120V 20A/1/60	VERIFY GAS CONNECTION
5A	1	●			STEAM PAN COUNTER PLATE	FABRICATED						
6	1	●			WARMING CABINET	FABRICATED		1/2"	1"	3/4" (GAS)		VERIFY GAS CONNECTION
7			●		VEGETABLE SINK	FABRICATED	1/2"	1/2"	1"			
8	1	●			STORAGE CABINET	FABRICATED						
9	1	●			SHELF AREA	FABRICATED						
10	1	●			3 COMPT. POT SINK	FABRICATED	(2) 1/2"	(2) 1/2"	(3) 2"			
11	1		●		FOOD CHOPPER	HOBART #4012					1/2 H.P. 120/1/60	
12	1		●		TACO RANGE	U.S. RANGE #TR-SAB				3/4" (GAS)		
13	1			●	EXHAUST HOOD	FABRICATED						BY HVAC CONTR.
14	1		●		FRYER	SUPER CHEF #FM14P				3/4" (GAS)		
15	1		●		WORK TABLE	FABRICATED						
16	1		●		FOOD SLICER	HOBART #1712					1/3 H.P. 120/1/60	
17	1		●		STEAMER	FABRICATED				3/4"		
18	1		●		WALK-IN COOLER 7'-0" x 11'-0"	VOLLRATH			3/4"		220V 20A/1/60	
19	1 LOT		●		SHELVING	FABRICATED						
20	9		●		2 SEAT TABLE	WILSON ART #D8896						ASSEMBLED BY G.C.
21	12		●		4 SEAT TABLE	WILSON ART #D8896						ASSEMBLED BY G.C.
22	1 LOT		●		SHELVING	FABRICATED						
23	1			●	SERVICE SINK	AMER. STD. "LAKEWELL"	1/2"	1/2"	2"			
24	1			●	SHOWER PAN	AMER. STD.	1/2"	1/2"	1 1/2"			
25	1			●	SERVICE COUNTER	WILSON ART D8896						
26	1		●		MEAT RACK							
27	1		●		FRYER SPLASH GUARD	FABRICATED						
28	13	●			TACO RACKS W/ LIDS							
29	2	●			TACO DISPENSER RACKS							
30	1		●		FOLD DOWN SHELF	FABRICATED						

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79-613

carlson/seekatz, inc.
ARCHITECTS
(312) 920-5700
825 N. CASS AVE. SUITE 110
WESTMONT, ILLINOIS 60559

REGISTERED PROFESSIONAL ENGINEER MICHAEL J. MARCUS No. STATE OF CALIFORNIA

TACO BELL

REVISIONS
12-19-79

22941 1088

BUILDING TYPE
29·54·SJ

TACO BELL JOB NO

JOB NUMBER
79-20

DATE
3-25-79

SHEET NUMBER
EQ-1

SPECIFICATIONS FOR THE CONSTRUCTION OF A TACO BELL RESTAURANT

OWNER: TACO BELL, 17381 RED HILL AVENUE, IRVINE, CALIFORNIA 92715, 714/754-1500 — 825 N. CASS AVENUE, WESTMONT, ILLINOIS 60559, 312/920-5700

ARCHITECT: CARLSON/SEEKATZ, INC., 5431 W. DEVON AVENUE, Chicago, Illinois 60646, 312-775-7265

DATE: FEBRUARY 1, 1979

SPECIFICATIONS DATED PRIOR TO THE ABOVE DATE ARE OBSOLETE AND SHOULD BE DESTROYED.

I N D E X

SECTION	TITLE
1	Instructions to Bidders
2	Supplementary General Conditions
3	Excavating, Backfilling and Grading
4	Paving
5	Concrete
6	Masonry
7	Structural Steel
8	Drywall
9	Carpentry and Millwork
10	Painting
11	Glass and Glazing
12	Quarry Tile/Ceramic Tile
13	Roofing and Metal Flashing
P	Plumbing
H	Heating, Ventilating and Air Conditioning
E	Electrical
L	Landscape
S	Stucco

NOTE: Any additional trades or items not specifically mentioned herein shall still be subject to the General Conditions and Standards of Workmanship indicated throughout these specifications.

SECTION 1 - INSTRUCTIONS TO BIDDERS

1.1 In General: The Project is to be bid by the Contractor(s) exactly as drawn and specified, and all proposals shall be complete and inclusive of all work as shown and/or specified and as required by all applicable building codes. All Contractors and Sub-Contractors are held to have fully examined all drawings and specifications, not only of their particular concern but of allied trades as well, and to be fully familiar with conditions under which he will assume his work. Particular attention is drawn to the General Conditions and the Supplementary General Conditions of the specifications. The Contract shall be in the form of a single, lump sum of type of agreement

1.2 Proposals: Sealed proposals shall be received by the Owner at such time and place as may be designated by him. Proposals shall be submitted in duplicate on forms provided by the Owner, and shall be enclosed in an opaque envelope, sealed and plainly identified on the outside with the name and address of the project and the name and address of the Contractor. Proposals shall be signed by legally authorized parties of companies only and titles of same shall be stated. The Owner shall retain the right to reject any and/or all proposals.

1.3 Acceptance or Withdrawal of Proposals: Any Contractor who has submitted a proposal to the Owner may withdraw his proposal at any time prior to the scheduled time for opening of same; however, once proposals are opened the Contractor agrees to honor same for a minimum of thirty (30) days after scheduled date of opening.

1.4 Discrepancies: Should a bidder find discrepancies or ambiguities in, or omissions from, the drawings and/or the specifications, or be in doubt as to their meaning or intent, he shall notify the Owner in time to allow for issuance of clarification by means of Addenda for delivery in sufficient time before proposals are due.

1.5 Qualification of Contractors: The Owner reserves the right to require any Contractor submitting a proposal to furnish any or all of the following information.
a) Performance record of projects completed over the previous two (2) years.
b) Address and description of plant or permanent place of business.
c) An itemized list of equipment.
d) Additional information as shall satisfy the Owner that the Contractor is adequately prepared to fulfill all requirements of the contract.

Such information shall be requested prior to the award of the Contract.

1.6 Distribution of Documents: Contractor desiring to bid the work may obtain plans, specifications and supplemental Bidders Package containing a copy of the contract, Contractor's Sworn Statement and Contractor's Buy Out Package Allowance from the office of the Owner. Plans and specifications to remain the property of the Owner and are to be returned to him, complete and in good condition, along with the Contractor's proposal. Use by unauthorized persons for any purpose whatsoever shall be strictly prohibited and is punishable under federal copyright laws.

1.7 Conditions: Submittal of a proposal by any Contractor shall constitute full acceptance by that Contractor of all conditions as herein stated.

1.8 Allowances: General Contractor shall INSTALL the following miscellaneous items, SUPPLIED BY TACO BELL as part of the General Contract.

BRIDGEWATER AND ASSOCIATES, 3329 S. MALT AVE., City of Commerce, California 90040. (213) 725-0700

Stock No.	Qty.	Item
	6	Outdoor Lanterns
C108	1	Safe
C107	3	Wrought Iron Chandeliers

Total, Standard Contractor's Order
**Quantity may vary according to Plot Plan

Please allow three [illegible] weeks notice for delivery. The Contractor shall furnish all labor and materials required for unloading, receiving and installation of the above items.

SECTION 2 - SUPPLEMENTARY GENERAL CONDITIONS

2.1 Definitions:
Owner: The Owner shall be defined as Taco Bell, 17381 Red Hill Avenue, Irvine, California 92715, (714) 754-0500 or Midwest Office located at 825 N. CASS AVENUE, WESTMONT, ILLINOIS, 312/920-5700, where used in conjunction with this project.
Architect: The Architect, for the purposes of this project, shall be the firm of Carlson/Seekatz, Inc., Architects, or a representative authorized by them.
Contractor or General Contractor: The person(s), company(ies) or corporation(s) with whom the Owner makes a direct contract for the work or any portion thereof, or for any materials or related services required thereto.
Sub-Contractor: Any person(s), company(ies), or corporation(s) with whom a Contractor makes a contract to furnish labor and/or service and/or material in connection with the project. Within the specifications and working drawings, the term "Contractor" shall be interpreted to mean Sub-Contractor where applicable unless further defined.
Project: The project shall be defined as the complete labor, materials and services required for construction of a Taco Bell Restaurant and all related work as described in the contract documents.
Site: The property on which the project is located.
Contract Documents: The contract documents shall consist of (1) The Building Construction Contract, (2) The General Conditions to the Contract (A.I.A. Form A-201, latest edition), (3) The Architectural Drawings and Mechanical Drawings, (4) The Specifications and (5) The Approved Plot Plan and Approved Landscape Plan. The dates including revision dates of all drawings and specifications shall be included on the proposal form.

2.2 In General: The Standard Form of General Conditions published by the American Institute of Architects (A.I.A. Form A-201, latest edition) shall be binding and the General Conditions included herein shall be supplementary thereto. In the event of conflict the Supplementary General Conditions shall govern.
The contract form shall be the building construction contract between Contractor and Owner where a stipulated sum forms the basis of the contract. Copies of the above forms are on file at the Owner's office.
It shall be accepted as a fact that concerned Contractors have inspected the site prior to submitting their bid and no additional compensation shall be allowed for failure to fulfill this requirement. It is not to be construed, however, that the Contractors have included in their bids amounts to cover unforseen conditions or obstacles other than those indicated on the drawings or visually apparent at the site. Should unforseen conditions arise the Owner shall be notified immediately.
The following specifications are divided into chapters and each Contractor is to figure on that portion with which he is concerned. It shall be the responsibility of each Contractor to read and familiarize himself with the General Conditions and Supplementary General Conditions which shall be considered equally binding with the remaining specifications.
Any controversy or claim arising due to a labor conflict caused by the wording or assignment of these specifications shall be settled in accordance with local governing labor practice.
Whenever an alternate is called for the Contractor is responsible for substituting the cost of materials and labor required to complete alternate installation, and for crediting to the Owner any materials and/or labor not necessary in the alternate proposal.

2.3 Drawings and Specifications: All work shall be executed according to the true meaning and intent of the drawings and specifications which are intended to include everything requisite and necessary for the proper and entire finishing of the work, notwithstanding that each and every item necessarily involved in the work is not specifically mentioned, and the work, when completed, shall be delivered to the Owner in a perfect and undamaged condition without exception.
The drawings and specifications are intended to be cooperative and the work or materials called for by the drawings and not mentioned in the specifications or vice-versa shall be furnished and performed in as faithful a manner as though treated by both.
Before submitting his estimate each bidder shall carefully check the drawings and specifications and should he find any conflict, uncertainty, or discrepancy as to his requirements, he shall report same to the Owner immediately, who will make a ruling on each report and will notify all concerned bidders as to his decisions. Should such conflict, etc., be discovered after signing of the contract, it shall be called to the attention of the Owner and his decision in regard thereto shall be final.

2.4 Precedence of Drawings: The order of precedence of drawings shall be as follows:
1) Specifications take precedence over drawings.
2) Larger scale drawings over smaller scale drawings.
3) Figured drawings over scale drawings.
4) Supplementary General Conditions over A.I.A. General Conditions.
5) Architectural drawings over mechanical and electrical drawings.
6) Any addenda over all material of an earlier date.
7) Equipment drawings, as may be provided by the Owner, over architectural and mechanical drawings of earlier date.

2.5 Sales Tax: Each Contractor shall pay all state and local sales and occupational taxes as may be levied by the governmental agencies regarding the work.

2.6 "Or Equal" and "Approved Equal": The terms "Or Equal" and "Approved Equal" shall indicate substitution of item(s) and/or materials and/or methods equal to or superior to those drawn or specified. Any substitution shall be approved in writing by the Owner upon receipt and study of complete information regarding same.

2.7 Materials and Workmanship: Unless otherwise particularly stated, the Contractor shall furnish and install ALL materials and labor mentioned in these specifications and/or shown on the drawings, and all work shall be executed in a neat and skillful manner to the entire satisfaction of the Owner.

2.8 Sub-Contracts: The names of all proposed Sub-Contractors shall be approved by the Owner prior to award of the contract. The Sub-Contractor shall be bound by the specifications. No Contractor or Sub-Contractor shall sublet or assign his contract or any part thereof without the written approval of the Owner.

2.9 Laws and Ordinances: The Contractor(s) and all Sub-Contractors shall comply in all respects with all laws and ordinances having jurisdiction over the work and/or materials or methods employed in performing same. No additional compensation shall be allowed Contractors for failure to familiarize themselves with all conditions under which they will perform their work unless these conditions are brought to the Owner's attention prior to signing of contracts and provision for adjusting costs are made at that time.

2.10 Permits, Bonds, Etc.: The Contractor(s) shall take out and pay for all permits, bonds, etc. Should separate contracts be awarded, each Contractor shall be responsible for permits, fees, bonds, licenses, etc., as may be required by work covered under his portion of the contract. Receipts for same shall be turned over to the Owner upon completion.

2.11 Protection: Each Contractor shall barricade and/or shelter his work as to reasonably protect it from damage. All barricades shall be so arranged as to insure a reasonable visual and physical warning for workment and the public. Provide flashing type blinkers around open trenches.
The Contractor(s) shall be held responsible for any damage to his work as may be due to negligence of the above, or as may be caused by accident, wind, rain, snow, freezing, riot, malicious mischief, or labor commotion, theft, etc., if due to his acts, omissions or negligence, and shall, if such damage occur, restore the work of its previous condition at no cost to the Owner.

2.11 Protection (Continued):
Contractor(s) shall protect all adjoining property from damage during the course of the work. If required by local laws or ordinances, he shall issue notices to Owner of said property. No use of adjacent privately owned property by any Contractor without written permission by its Owner shall be allowed.

2.12 Insurance: In General, the Contractor(s) and the Sub-Contractor(s) shall maintain such insurance as shall protect him, the Owner and the Owner's agents and representatives from any and all claims under Workmen's Compensation Acts and from all claims for damages because of bodily injury, including death, and all claims for property damage arising from his operations and/or the operations of Sub-Contractors employed by him, and shall be to the amounts as stated herein. Sub-Contractors, if not covered by the Contractor's insurance, shall provide similar insurance of their own.
"Hold Harmless" Clause: The certificate shall state that this endorsement is included in the policy(ies).
The Contractor assumes the liability for all losses, damages (including loss of use), expenses, demands and claims in connection with or arising out of any injury or alleged injury to persons (including death) or damages or alleged damage to property, sustained or alleged to have been sustained, in connection with or to have arisen out of the performance of the work by the Contractor, his Sub-Contractors, and their agents, servants and employees, including losses, expenses, or damages sustained by the Owner and the Architect. The Contractor hereby undertakes and agrees to indemnify and hold harmless the Owner and the Architect, their agents, servants, and employees, from any and all such losses, expenses, damages (including loss of use), demands and claims, and shall defend any suit or action brought against any of them, based on any alleged injury (including death) or damage (including loss of use) and shall pay all damages, judgments, costs and expenses, including attorney's fees, in connection with said demands and claims resulting therefrom.
The above clause shall apply in all states unless restricted by state statute. Should this be the case, the maximum form of "Hold Harmless" allowed by the law shall be provided.
Workman's Compensation Insurance: Shall be up to date and in force and shall be such as to protect the Owner from any and all claims arising under compensation acts. Such insurance shall cover all employees, and shall be of unlimited, or statutory amount.
Public Liability Insurance: Shall have limits of not less than $250,000.00 for any one person and $500,000.00 for any one accident.
Property Damage Insurance: Shall have a limit of not less than $50,000.00 per accident.
Fire and Extended Theft Coverage: Limits in the amount of contract with no more than $100.00 deductible.
Builders Risk Insurance: Including fire with extended coverage, vandalism, and malicious mischief, shall be maintained by the Owner (see Article 15, A.I.A. General Conditions).
Insurance policies shall be taken out by the Contractor(s) immediately after award of contract and prior to any work being done. Upon obtaining policies the Contractor(s) shall notify the Owner and certificates and/or duplicate policies from insurance companies shall be filed with the Owner showing policy numbers, dates, policies shall be in effect, and all limitations and exclusions. Certificates shall state that the insurance company shall notify the Owner by registered mail ten (10) days prior to the expiration or cancellation of any policy.

2.13 Bonds: A performance bond and a labor/material payment bond, if requested by the Owner, shall be taken out by the General Contractor and shall be paid for by the Owner in addition to the contract amount unless otherwise agreed to.

2.14 Miscellaneous Services and Temporary Facilities: The General Contractor shall be in charge of the premises from the start to the completion of the building and shall furnish the following:
1) Laying out of all work and establishing general building lines and levels; this to be confirmed with the Owner.
2) Temporary electric power during the period of construction: this does not include portable generators for use of other trades.
3) Heating of building for working and drying purposes during the period of construction.
4) Temporary ladders as required for access to all work.
5) Water for construction use.
6) Acceptance, unloading and storage if found necessary by Contractor's negligence, of Owner's equipment delivered to the site are the responsibility of the General Contractor.

2.15 Inspections and Tests: The Sub-Contractors shall call for all inspections as may be required by local authorities and listed therein allowing a minimum of two days notice for inspections to be made.
Inspection by the Owner shall be specifically required for stake-out and establishment of building elevations and for all plumbing and electrical work occurring under concrete slabs or otherwise buried, as well as any other work specified in the following chapters, prior to concealment of same.
The Owner has the right to order tests and/or laboratory examination of any material or work used or performed on the project should he suspect such material or work to be of lesser quality than specified herein. The costs of all such tests shall be paid by the Owner unless they indicate work or materials to be of lesser quality, in which case they shall be paid for by the Contractor(s) concerned, along with any expenses incurred in correction of the work.

2.16 Checking Preceding Work: Before starting work each Contractor shall examine work previously installed and shall immediately report to the Owner any visible defects or conditions which would adversely affect the quality and/or completion of his work. It shall be assumed all conditions are acceptable if no such report is received.

2.17 Cutting and Fitting: Each Contractor shall execute all cutting and fitting of his work as may be required by other trades so as to insure as near perfect fit of materials as possible.

2.18 Damaged Work: Each Contractor shall pay for replacement of any work damaged by him or those employed by him in connection with the contract, and such patching or replacement shall be performed by skilled men specializing in that particular trade so as to restore damaged work to completely acceptable condition. Should responsibility for damage be unable to be determined, the cost of repairing same shall be pro-rated among Contractors working on the job at the time the damage occurred as determined by the Owner. The decision of the Owner shall be final.

2.19 Advertising: No advertising shall be allowed without the written permission of the Owner.

2.20 Completed Work: Completed work as called for by the Contract shall be delivered to the Owner free from liens, claims, or encumbances of any description whatsoever against the Owner. Acceptance of such work shall be defined as approval for final payout.

2.21 Maintenance and Cleaning of Premises: Throughout the period of construction each Contractor or Sub-Contractor shall be responsible for satisfactorily maintaining the premises in a neat and clean condition insofar as his respective trade is concerned.

2.21 Maintenance and Cleaning of Premises (Continued):
This shall mean removal of all refuse and debris from the premises.
All equipment and materials shall be stored in a neat manner and as to protect them from any damage from the elements. Building shall be maintained in a generally clean condition during the period of construction and upon final completion a professional service shall be supplied by General Contractor to thoroughly clean all glass, floors, furniture and equipment.

2.22 Guarantee: All labor, materials and equipment required by the Owner-Contractor Agreement(s) shall be fully and unconditionally guaranteed by the Contractor for a period of one (1) year from the date of final acceptance or the date that equipment is put into operation by the Owner, unless otherwise specified in specific chapters herein.

2.23 Work Not Included: The following items, materials or services are not included as a part of the General Contract and shall be supplied as noted.
1) Food Service Equipment: As indicated on the drawings shall be supplied by the Owner and installed by the Contractor including the stainless steel sink.
2) Building Signs: Shall be provided and installed by the Owner.
3) Prefabricated Walk-In Cooler and Freezer [illegible] shall be supplied by the Owner and installed by the Contractor.
4) Labor: The Contractor shall furnish all labor and materials required for unloading, receiving, and installation of items 1 and 3.

SECTION 3 - EXCAVATION, BACKFILLING AND GRADING

3.1 General Statement: The General Conditions and the Supplementary General Conditions chapters shall apply herewith.

3.2 Scope: This Contractor shall furnish all necessary labor, materials, equipment, transportation etc., required to properly clear the site and prepare it for construction of a restaurant as shown on the drawings and as specified herein. For particular site requirements the Contractor should refer to the Plot Plan. Backfilling and grading are also by this Contractor as specified herein. Utility trenching and filling are by others.
Demolition, if required, shall be bid separately but as a part of this contract. Demolition shall include removal of all debris, cutting off of all power and utility lines, removal of foundations to be one (1) foot below finish grades shown on the Plot Plan, removal or filling of all underground tanks (as required), etc. Any salvage shall be the property of the Contractor performing the work, upon receiving written approval from the Owner.

REGISTERED PROFESSIONAL ENGINEER MICHAEL J. MAJORS No. [illegible] STATE OF CALIFORNIA

3.3 Materials and Methods:
a) Cleaning and Stripping: The site shall be cleared of all trees, rocks, existing buildings and foundations, sidewalks, curbings, drives, underground tanks, and other obstructions, as may be shown on the property survey and/or site plan, or as may be visually apparent on the site. Black or organic topsoil shall be stripped from all areas of construction and shall be stockpiled at designated locations for future use, or shall be removed from the site if not needed.
b) All lines for locations of the building are to be laid out by the General Contractor and approved by the Owner prior to the start of any work. Excavation for foundations shall be to such depths as is normal, local practice and as may be required by local codes, but in all cases to firm bearing. All excavated material shall be stored in piles at locations most advantageous to later backfilling and rough grading operations or as may be instructed by the Owner. Excess materials shall be removed from the site. Mechanical digging for footings shall be to within 2" of the bottom of the footings as shown, the remaining 2" to be hand dug by others.
c) Backfilling, Filling and Grading: As soon as foundations are complete and have been inspected, this Contractor shall backfill and rough grade the entire site within 8" of finish elevations shown on the site plan. All material shall be thoroughly compacted and uniformly graded to provide proper drainage. Fill under all concrete slabs shall be clean sand or pit run gravel, free from organic material, placed in 6" layers and compacted by means of pneumatic compactors. Finish grade inside building shall be 8" below finished floor.
This contract includes providing and placing all necessary fill except fill noted as "Base Course" fill in the "Paving" specification and backfill for mechanical trenches. All fill supplied under this contract shall be clean clay material carefully placed in 6" lifts and compacted by mechanical tampers to 95% proctor.
d) Finish Grading: Final grades in any areas indicated as landscaped or unpaved areas shall be to grades shown using black topsoil of a minimum depth of 6". If necessary, this contract shall include such material.
e) Cooperation: This Contractor shall cooperate with all other trades affected by his work, particularly those of paving, concrete and plumbing, so as to properly coordinate in properly expediting the project.
f) Special Conditions: Should special, unusual or unforseen conditions such as rock, water, poor soil conditions, etc., which are not covered in this specification, by the original contract, or on the Plot Plan be encountered, the Contractor shall immediately notify the Owner in writing, and shall not proceed with any work affected by these conditions until a satisfactory agreement is reached relative thereto.

3.4 Guarantee: This Contractor shall be responsible for and shall so guarantee all work performed under this contract for a period of one (1) year from date of acceptance, against any settlement or other faults detrimental to appearance or quality of the finished project. This Contractor shall repair and/or replace, or shall pay for repair or replacement, of not only his own work but that of others as well, should such faults occur.

SECTION 4 - PAVING

4.1 General Statement: The General Conditions and the Supplementary General Conditions chapters of this specification shall apply herewith.

4.2 Scope: This contract includes all required material, labor, equipment, transportation, etc., as required to complete asphalt paving as shown on the Plot Plan, and includes striping and other markings, and precast concrete wheel bumpers as shown.

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DATE	5-25-79
SHEET NUMBER	SP-1

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4.3 Methods and Materials:

a) Sub-grade: The sub-grade shall be rough-graded to approximately 8" below finished grades shown by others (see Section 3, Excavating). This Contractor shall finish grade for proper drainage and shall compact sub-grade by rolling with a ten (10) ton roller. Any depressions that develop shall be filled and the surface rolled again. The surface shall be dry and well-drained before placing paving, and shall be free of frost, mud, pockets or otherwise unsatisfactory conditions.

b) Base: Over sub-grade lay a 6" thick water bound Macadam base in two courses. First course shall consist of clean, hard, durable particles of crushed limestone graded so that 100% shall pass a 3" ring and not to exceed 5% shall pass a 1" ring. Spread stone evenly without segregation of sizes to such depths as will produce a 4" course after rolling.

Rolling shall begin at edges of drive or area with roller traveling parallel to the longer axis. When edges are thoroughly rolled, rolling shall proceed gradually toward the center of pavement. Continue rolling until stone ceases to creep or wave ahead of roller. Completed work shall not show any irregularities exceeding 1/2" when tested with a ten foot straight edge.

Key heavy stone with finer stone and spread screenings in thin layers in such amounts as will fill interstices of larger stones. Screenings shall be distributed by means of a mechanical spreader and shall be swept and rolled dry continuously during this process.

Immediately after voids have been filled as above, sprinkle surface until saturated. Follow sprinkler with roller and continue addition of screenings, sprinkling, sweeping and rolling until grout formed by screenings and water fills all voids to the satisfaction of the Owner and forms a small wave in front of wheels of roller.

Conduct water binding operation in sections of such extent that each section can be completed in a day's work, leaving no portions partly water bound overnight.

Over first course lay a second course of same specification to form the six inch (6") thick base (compacted thickness).

In geographic areas where bank run gravel, limestone or other free-draining base courses are customarily used for area paving, these methods may be substituted provided the material and method of pavement is detailed and written approval is given by the Owner at the time of original bid.

c) Wearing Surface: Prime surface of Macadam base with asphalt primer and apply a wearing course composed of bituminous binder, sand and fine chips or screenings, plant mixed and delivered to job all ready for use without additional heat. Surfacing material and application thereof shall be Fine Dense Graded Aggregate Asphalt Concrete in accordance with local state highway department specifications.

Place mixture to required depth with uniform grade and roll to a true even surface having a compacted thickness of not less than 2". Dust lightly with sand to protect surface while curing. All asphalt shall be plant mixed.

d) Weather Conditions: Binder or other bituminous material shall not be applied when stone or foundations are wet or when conditions are otherwise unsuitable for good work as determined by the Owner, and by standard practice of the industry.

e) Testing Surfaces: After completion, test pavement with a ten (10) foot straight edge laid parallel with center line of pavement. Any depressions exceeding 1/2 shall be satisfactorily eliminated or pavement relaid.

f) Drainage: When sewer connected drainage or pavement drains are provided it is essential that all paving constructed under this section be accurately laid out and constructed so that water will run off as indicated. When there are no sewer connected drains this paving shall be pitched away from the building toward the property lines and/or drives and/or as may be shown on the Plot Plan or required. All paving must be set 6/10 of a foot below all building walks to protect building from vehicle traffic.

g) Winter Paving: When asphalt plants are closed between the months of December and May, pavement shall consist of a compacted stone base as described herein. In bidding a job, where completion is scheduled to fall in the period when asphalt is not available, the Contractor shall include in his bid the cost of finish grading as rapidly as possible, preparing sub-grade and rolling in a compacted stone base with screenings, penetrating with oil if possible.

He shall also have the responsibility, under the original contract on a winter program, of coming back in the spring, rerolling the stone base, bringing up to finished grade any area that may have become depressed with the spring thaw, and finish paving with two inches (2") (total) of bituminous concrete laid as specified herein.

4.4 Striping: The Contractor's attention is called to standard requirement of complete line striping the parking area as detailed on the Plot Plan. Standard striping shall be highway white. Machine spray two coats first quality traffic paint. In case of a winter construction program, striping shall be installed on the temporary surface prior to the store's opening. This striping will continue to be the responsibility of the General Contractor to be performed again after the wearing course of asphalt is laid in the spring.

4.5 Precast Concrete Car Bumpers: After finished asphalt paving has been laid and line striping completed, precast concrete car bumpers seven feet (7') long with beveled sides shall be provided and installed as indicated on the Plot Plan. These shall be of standard local manufacture and shall be anchored in place with two foot (2') long steel dowels in at least two points.

4.6 Guarantee: This Contractor shall guarantee all work performed by him under this contract against settlement, cracking, crumbling and other defects, unconditionally, for a period of one (1) year after the completion of the work.

4.7 SEALER: CONTRACTOR TO [illegible] ASPHALT [illegible] WITH TWO (2) COATS OF JENNITE SEALANT J-16 FIRST [illegible] SAND SLURRY. INSTALL JENNITE NO EARLIER THAN THIRTY (30) DAYS AFTER PAVING HAS BEEN COMPLETED. PAVEMENT SHALL BE [illegible] AFTER SEALING.

SECTION 5 - CONCRETE

5.1 General Statement: The General Conditions and the Supplementary General Conditions chapters of this specification shall apply herewith.

5.2 Scope: This Contractor shall supply all necessary labor, materials, equipment, transportation and taxes required to complete all concrete work as shown on the drawings and/or specified herein, including foundations, interior and exterior slabs, walks, curbs, and gutters, drive approaches, etc. All plain and reinforced concrete work shall comply with the latest A.C.I. code (A.C.I. 318-71). Excavation is by others except final two inches (2") which is hand excavated by this Contractor (footings and pads only). Depth of footings shall be in accordance with local building practice and applicable codes and regulations.

5.3 Materials and Methods:

a) Layout: This Contractor along with the General Contractor shall stake out the building with all lines and dimensions conforming exactly with those on the drawings. Elevations as shown on Plot Plan refer to bench mark indicated. Any discrepancies in the dimensions shall be reported to the Owner immediately.

b) Cooperation: It shall be the duty of this Contractor to cooperate with all Contractors in the building in the forming of their work. He shall examine the drawings for all structural, heating, plumbing, ventilating, electrical and other mechanical work, and provide openings in concrete for all beams, columns, lintels, pipes, ducts, and other openings required by other Contractors. Sleeves for pipes will be furnished by others. This Contractor shall do all forming required by other openings, except where frames are shown to be provided by others.

c) Concrete and Reinforcing Steel: All concrete shall be minimum 5 1/2 bag mix, 3000 psi at 28 day strength concrete or better per PCA specification. Concrete shall have 6% PCA approved air-entraining agent. No other chemical additives shall be allowed without approval of the Owner. Ready-mix concrete shall be placed in forms within 90 minutes of placement in truck. No retempering of concrete shall be allowed. All concrete placed in adverse weather conditions shall be done so following the recommended practices of the PCA and the Owner.

Reinforcing, unless unforseen conditions arise, shall consist only of welded wire mesh for slabs and sidewalks. Mesh shall be of standard sizes as indicated on the drawings, lapped at edges, and placed approximately 1 1/2" from the bottom of the slabs. Mesh shall be free of rust, scale or other properties detrimental to its use.

Should unforseen conditions arise requiring the use of reinforcing steel bars at walls and/or footings, standard deformed steel reinforcing bars shall be provided and placed in accordance with engineering drawings that will be provided upon request by the Architect.

d) Footings: All footings shall bear on firm, undisturbed soil and shall be accurately located in accordance with the drawings. All loose dirt shall be removed from between form boards. Minimum allowable soil bearing value allowable is 3,000# / sq. ft. Notify Architect before commencing construction, if values are belived to be less.

e) Walls: If poured walls are used they shall be accurately formed directly on top of footings using plastic faced wall forms. Forms shall be aligned and adequately braced prior to placement of concrete. Immediately after placement, walls shall be rechecked and shall be realigned and rebraced if necessary. Concrete shall be placed in such a manner as to avoid segregation of aggregates. Spray inside face of forms with approved form oil just prior to pour. Concrete shall be mechanically vibrated or rodded after placement to assure filling up all corners and other forming configurations and to avoid "honeycombing".

Forms shall remain in place until it is evident that concrete is of sufficient strength to carry loads, but in no case less than 5 days for normal concrete or three days for high early strength concrete.

f) Slabs: All concrete slabs as indicated on the drawings shall have minimum thickness of 4" and shall be reinforced with 6" x 6" #10/10 mesh and shall be placed over a minimum of 4" of pea gravel or "Torpedo" sand.

All underslab fill as required shall be sand or pea gravel and 4" thick. This Contractor may have to do some hand grading to assure proper finish elevations for slabs.

Between fill and slab provide a .006" Visqueen (polyethylene) vapor barrier, lapped 10" at all edges (interior slabs only).

g) Sleeves, Chases, Etc: All sleeves, chases, pockets, etc., as required by various trades and as shown on the drawings shall be accurately installed by this Contractor. Other sleeves, chases, pockets, etc., required by various trades shall be installed and/or provided by this Contractor if information and necessary materials are provided him by concerned trades prior to completion of involved formwork.

h) Perimeter Insulation: In all localities where the winter design temperature is 10 deg. F. or less, this Contractor shall furnish and install one inch thick DOW Styrofoam SB perimeter insulation as shown on the drawings. Design temperature information is available from local heating Contractors or building authorities.

i) Expansion Joints in Walks and Curbs: Provide and install 1/2" premolded expansion joints as detailed on the drawings (maximum spacing 20'C).

j) Light Pole Bases (Where shown on the Plot Plan): Shall be poured concrete bases as detailed on the drawings and shall be by this Contractor. After removal of forms, clean and wash exposed surfaces of bases with cement wash.

k) Finishes: Interior slabs to receive ceramic or quarry tile shall be floated level and true and left ready to receive finish material.

Exterior slabs and walks shall be floated true to line, properly pitched for drainage, and finished with a fine textured, uniform, soft broom finish. Score walks neatly at 4'-0" intervals maximum.

SECTION 6 - MASONRY

6.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are part of this contract.

6.2 Scope: This contract includes all necessary labor, materials, transportation, taxes, equipment, etc., as required to complete all masonry work as shown on the drawings or as specified herein.

6.3 Cooperation: This Contractor shall thoroughly examine all other drawings so as to familiarize himself with the work of the other trades which shall affect his work. Particular attention is called to the mechanical drawings. He shall cooperate with other trades in building in such items as chases, pipes, etc., as may be required by their work.

6.4 Materials:

a) Mortar: Type M, ASTM-C-270-68 colored to match concrete slumpblock. Do not use slag cements.

b) Slumpblock: Slumpblock structural block as manufactured by General Concrete Products or Taco Bell approved equal, size as noted on plans, color shall be tan.

c) Wall-Reinforcing: Dur-O-Wal No. 8 truss design masonry wall reinforcement shall be installed spaced 16" o.c. vertically.

d) Grout: Grout shall consist of one part Portland Cement, 3 parts sand and 2 parts 3/8" pea gravel. Water shall be added to produce a consistancy suitable for pouring. No more than 7-1/2 gallons of water per sack of cement.

6.5 Storage of Materials: All mortar materials shall be stored under cover in a dry place. During freezing weather all masonry units shall be protected with tarpaulins or other suitable materials. Reinforcement shall be protected from elements and, before being placed, shall be free from loose rust and other coatings, including ice, that will destroy or reduce the bond.

Slumpblock shall be stored clear of the ground and in such a fashion as to prevent any staining or discoloration.

6.6 Workmanship:

a) General: All walls and piers shall be laid up straight, level and plumb between two lines, with full troweled bed joints and shoved side and end joints, and with all open joints fully flushed up, and all voids located in accordance with the drawings. Accurately locate all openings as shown and/or required, and completely seal around all pipes, beams ducts, joints, and other perforations of the wall so as to eliminate sound transmission. Pipes and conduits in walls shall be concealed wherever possible.

Metal door frames shall be furnished and set by others, anchored to wood framing; this Contractor to set in outer face solidly and neatly.

All exposed joints, after sufficient setting up, shall be raked 1/4" deep maximum, both horizontally and vertically.

b) Sleeves and Chases: Provide all chases, recesses or openings for pipes shown or indicated on the drawings of ample size to receive the work for which they are intended. Build in any sleeves as may be provided by others.

c) Lintels, Bolts, and Miscellaneous Loose Steel Plates: As shown on the drawings and embedded in masonry, shall be provided and installed by this Contractor as shown. Lintels shall be fully bedded in Portland cement, mortar, brought to proper level, and shall have a minimum of 4" bearing on each end.

6.7 Protection of Work: All masonry walls, at the end of daily work or when not being worked on, shall be well protected and covered from the elements. Wherever necessary, brace all green walls in an adequate and substantial manner.

6.8 Adverse Weather Conditions: No masonry work shall be performed with the temperature below 32 degrees F. and, when masonry is laid when the temperature is 40 degrees F. or less, all materials shall be heated and properly and adequately protected from freezing until the mortar is set. No additives such as anti-freeze shall be used.

When the temperature is above 80 degrees F. all masonry units shall be thoroughly wetted before use.

6.9 Flashing: Provide and install three ounce copper Sisalkraft or Wasco or approved plastic type flashing wherever shown on the drawings.

6.10 Cutting and Patching: The Contractor shall do all cutting and patching or pointing of the work installed by him that may be required in the installation of the work or to accommodate the work of other Contractors.

All of this cutting and patching work shall be executed in a neat manner, and so as not to mar the appearance of the finished work.

6.11 Cleaning and Pointing: All work shall be cleaned upon its completion as specified herein.

All masonry shall be brushed with a stiff fiber brush (wire brush is not permitted), and all joints shall be pointed up. After dry-brushing and pointing of joints the surfaces shall be cleaned with water and an approved detergent compound and thoroughly flushed with water.

6.12 Cleaning Up: Upon completion of his work, this Contractor shall thoroughly clean up the premises of any and all debris left as a result of his work, including extra masonry, sand, etc. Paper containers, etc., emptied during the course of the work shall be piled and burned in an area designated by the General Contractor.

SECTION 7 - STRUCTURAL STEEL

7.1 General: The General Conditions and Supplementary General Conditions chapters shall apply herewith.

7.2 Scope: The contract shall provide structural steel shown on the drawings and/or specified herein. Structural steel in this section of the specification is defined as, furnishing, fabrication, and erection of all steel elements required for the support of the structure, including framed lintels. These are shown and identified as to their size, unit weight and location on the drawings. This contract includes rolled steel sections, structural steel supporting structures, etc., providing for the installation of other work as may be required and shown.

7.3 Materials: Materials furnished under this section for installation by others wall bearing plates, setting plates, and anchor bolts shown and identified are on the structural portions of the drawings.

7.4 General Requirements: Material, design, fabrication and erection of structural steel--in accordance with the requirements of the A.I.S.C. "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings", adopted February 12, 1969 and "Code of Standard Practice" adopted by A.I.S.C., 1924 and revised July 1, 1970, except as superseded and added to by the local building ordinances, A.S.T.M. designation for material used as shown in general notes on drawings.

7.5 Connections: Beam connections shall be designed to support loads shown on the drawings or half the total uniform capacity tabulated in the tables for "Allowable Loads on Beams" in the A.I.S.C. specifications 1969 edition.

Shop connections--bolted or welded as approved by the engineer and designed in accordance with section 1.15 of the A.I.S.C. specifications 1969 edition.

High strength bolts with special tempered washers meeting the requirements of A.S.T.M. A325 shall be used. Bolts 3/4 inch unless otherwise shown on the drawings. All holes shall be 1/16 inch larger than bolt. Columns milled to give full bearing over the cross section. The welding shall be only by operators qualified to work in accordance with requirements of the American Welding Society standards latest publication shall be employed, A.S.T.M. A-233 Class E-60 and Class E-70 series electrodes for manual arc welding and grade saw-1 or grade saw-2 submerged arc process shall be used for welding A-36 steel, beams, girders and columns. All welds made in field shall be repainted to match shop painting.

7.6 Shop Painting: Before leaving the shop, steel work herein specified, shall be thoroughly cleaned of all loose mill scale, rust and foreign matter, and given one shop coat, as per manufacturer's recommendations, applied thoroughly, evenly, and well worked into joints and open spaces. All paint shall be applied to dry surfaces.

7.7 Storage of Fabricated Steel at the Job Site: Material stored at the job site shall be so placed that no members shall be damaged and shall be protected against corrosion or deterioration of any kind. The Owner reserves the right to reject any material that has become damaged because of improper storage.

7.8 Erection: Work shall be erected as progress on the job will permit and shall be set accurately to the lines and levels established by the drawings. Structural Steel Contractor shall work in close cooperation with the General Contractor and other Sub-Contractors.

SECTION 8 - DRYWALL & ACOUSTIC TILE

8.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are a part of this contract.

8.2 Scope: This contract shall include all necessary labor, materials, equipment, transportation, services and taxes necessary to complete the installation and finishing of drywall as specified herein. This includes furnishing of all metal corner beads and other accessories as required by the general details of the drawings or work, or as may be shown.

8.3 Materials and Methods of Installation: All drywall as shown shall be standard and tapered edge gypsum board as manufactured by the U.S. Gypsum Company, the National Gypsum Company or Bestwall. Installation of the material shall be either nailed, nailed and glued, or screwed; however, any installation method shall be in strictest accordance with the manufacturer's instructions and specifications for the installation of materials. All drywall shall be Firecode bearing U.L.A. label of 5/8" thickness as shown on drawings except for toilet rooms which shall be 5/8" thick water resistant sheetrock "Greenboard".

8.3 Materials and Methods of Installation (Continued):

Materials shall be stored in the building for a minimum of 24 hours prior to use, and all materials as well as surfaces to which they are to be applied shall be in a dry condition. Building temperature shall have been maintained at not less than 65 degrees F. for a period of 48 hours prior to installation of any gypsum board. Material to be installed on walls shall be installed horizontally. End joints shall be staggered in all cases. Drywall shall be finished using the standard U.S. Gypsum three-coat Perf-A-Tape joint system in accordance with the latest specifications published by the U.S. Gypsum Company.

Prior to doing any work, this Contractor shall inspect all surfaces with which he will be concerned, and should he find any conditions which he feels will be detrimental to his turning out a first class job, he shall report such conditions to the Owner before beginning any work. Starting work under this contract constitutes acceptance of condition of the base.

8.4. CLG. TILE SHALL BE AS SPECIFIED ON DRAWINGS.

REGISTERED PROFESSIONAL ENGINEER MICHAEL J. [illegible] No. [illegible] STATE [illegible]

SECTION 9 - CARPENTRY AND MILLWORK

9.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are a part of this specification.

9.2 Scope:

a) General: This section shall include the furnishing of all labor, materials, equipment, services, etc., necessary for and incidental to the completion of all rough and finish carpentry work, millwork, installation of rough and finish hardware, and all other items as may be specified herein. This Contractor shall also include the installation of all items indicated as being provided by the Owner. The Carpentry Contractor shall consult the drawings and specifications of the other trades doing work in connection with the carpentry trade, and shall advise the General Contractor (if other than himself), so as to properly coordinate and complete the installation of their work, and to best expedite the project as a whole. Any carpentry work or materials which are not specified under other section headings, and which are necessary to or required for the completion of the work, shall be done by this Contractor.

9.3 Cooperation: When work under this section connects with work of other trades, the Carpentry Contractor shall do all necessary cutting and fitting so as to leave the entire work in a finished condition. He shall furnish labor and materials to the furtherance of this end, whether or not distinctly shown or specified. Particular attention shall be paid to the requirements of the various mechanical trades.

9.4 Framing and Rough Carpentry: This includes all materials and labor for installation of same for sheathing, stripping, wall studs, joists, etc., as indicated herein and other than as specified under Millwork. Framing is to be securely anchored, bolted, spiked, nailed, screwed, or otherwise assembled to insure rigidity. Provide temporary bracing as required during construction. Provide all other plates, Teco hangers, bolts, frames, anchors, etc., as required.

a) Headers and Similar Structural Members: Shall be construction grade (f=1500 psi) with 25% standard grade (f=1200 psi) allowed, Douglas Fir, Western Hemlock or Southern Pine. Material shall have a moisture content of less than 19% at time of surfacing and shall be grade marked "Dry".

b) Studs and Miscellaneous Members: Shall be S4S Douglas Fir, Southern Pine, White Fir or approved equal, of nominal sizes shown, maximum moisture content 19% at time of grading.

c) Wood Grounds, Stripping and Blocking: Shall be provided accurately located and rigidly secured as required for receipt of all finished work requiring same.

9.5 Insulation: Full thick fiberglass insulation batts with foil back vapor barrier, stapled between all roof joists carrying clay tile roofing.

9.6 Caulking: Thoroughly caulk wherever shown on the drawings or necessary to insure weathertightness. Blind caulk wherever possible. Caulking in general shall be silicone, gun grade, as manufactured by General Electric. Color shall be bronze, or to best match adjoining materials, where exposed.

All caulking materials shall be installed in strict accordance with the manufacturer's specifications and recommendations.

9.7 Rough Hardware: This includes all bolts, nails, anchors, spikes, miscellaneous fasteners, as may be required. All rough hardware as defined herein is to be included in the base contract. Trim shall conceal hardware. Exposed exterior nails shall be galvanized.

9.8 Finish Hardware: Finish hardware shall be included as specified in the hardware schedule. Acceptable alternates would include Yale, Sargeant, Corbin or Russwin. All exterior doors shall be fully weatherstripped.

9.9 Cutting and Patching: This Contractor shall cut and patch as required for the installation of work of all trades and shall work in conjunction with these trades.

9.10 Temporary Doors and Enclosures: Cover all exterior openings with plywood, securely installed so as to discourage entry by unauthorized persons, during the course of construction. Exterior doors as may be selected by the Contractor shall be provided with hinged operating door and [illegible] period of construction.

When weather conditions or status of finishing operations in buildings so require, provide temporary closure of window openings. Closure shall be of such type and material as may be necessary to protect interior from frost, rain, excessively drying wind or other climatic conditions which will be deleterious to building or its contents. Permanent closures of openings may be installed provided that these are protected at all times and left in perfect condition when building is completed.

9.11 Temporary Bracing: The Contractor shall provide and maintain temporary bracing as required for window framing, metal door bucks, wood framing and similar work during the course of construction.

9.12 Metal Door Frames: As shown on the door schedule shall be 6-3/4" x 2" x 16 ga. steel frames as detailed on drawings. Frames shall have integral 5/8" stops and shall be factory painted with one prime coat of rust inhibitor paint. All frames shall be installed plumb and true.

9.13 Millwork: Shall include all exterior and interior woodwork and doors exposed to view in finished building, except lumberyard or specialty items. All millwork shall conform to A.W.I. specifications and recommendations. The Contractor shall familiarize himself with goods finish schedule.

a) Interior Wood Trim: Shall be of standard shapes as shown and/or required, and shall be clear white pine or Ponderosa Pine.

b) Wood Doors: As listed in the door schedule, shall be as manufactured by Weyerhaeuser Company (Roddis standard), or United States Plywood Corp., (Weldwood staved lumber core), and shall have a minimum guarantee of two years from time of installation.

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c) Wood Shelving: Shall be 1" nominal Pine or Spruce, clear, including Sapwood, to receive paint for shelves 11 1/2" wide or less; for shelving 12" wide, or wider to receive painted finish use 3/4" interior grade A-B Douglas Fir plywood with solid wood edge strips: laminate covered shelving shall be 3/4" interior grade plywood or particleboard with formica edges. Front Countertop and desk shall be covered with Wilsonart D58 VF Burnt Orange.

9.14 Installation in General:
a) Finished work shall be erected plumb, true, square and in accordance with the drawings.
b) Finished work shall be blind nailed insofar as possible and surface nails shall be set. Work shall be securely nailed to studs, nailing blocks, grounds, furring strips etc.
c) Doors shall fit without binding.
d) Hardware for doors and windows shall fit so that they will close without forcing and so as to prevent any rattle. Hardware cuts shall be true and neat.
e) Where woodwork is required to be attached or connected directly to masonry and other hard surfaces, secure same with screws or expansion bolts and plugs or shields in a manner to provide a rigid, permanent and neat support.
f) Countersink screws and bolts and putty up holes where same are exposed.

9.15 Protection of Finished Work: This Contractor shall take adequate precautions to protect finished work, particularly woodwork and finish hardware, during the course of construction.

9.16 Refitting and Guarantee: After the building is completed this Contractor shall examine all doors and other moveable parts and shall put them in perfect operating condition and shall so maintain them for a period of twelve months after acceptance of the work. The Contractor shall furnish a written guarantee, warranting all work against defects in workmanship and materials for one year after acceptance.

9.17 Rubbish and Cleaning Up: Upon completion of the various portions of the work the Contractor shall remove from the premises, or as may be directed by the Architects, unused materials, rubbish and other debris resulting from the execution of the contract.

9.18 Installation of Miscellaneous Equipment Supplied by Owner: General Contractor is responsible for assembly and installation of all Owner's equipment that has been noted on drawings.

SECTION 10 - PAINTING

10.1 General Statement: The General Conditions and the Supplementary General Conditions of this specification apply herewith.

10.2 Scope: Include all labor, materials and other equipment necessary for the completion of all painting and finishing work required by the drawings and as specified herein. All exposed surfaces occurring in finished spaces and on the exterior of the building shall be finished as a part of this contract, whether specifically noted or not.

Examine specifications and drawings for the work to be performed by the other trades and so as to be thoroughly familiar with areas and items requiring finishing.

This Contractor shall be responsible for inspecting the work of others prior to beginning any work under this contract and any surface which cannot be put in proper condition for finishing by customary cleaning, sanding and puttying operations shall be immediately reported to the Owner in writing, or this Contractor shall assume responsibility for and rectify any unsatisfactory finish resulting therefrom.

10.3 Cooperation: The painting shall be performed as soon as the various surfaces are ready and as rapidly as is consistent with good work. This Contractor shall cooperate at all times with the Contractors furnishing other work in the building.

10.4 Storage of Materials: The Painting Contractor shall arrange with the General Contractor to set aside room or space to be used for storage and mixing of paints and nothing else. Such storage place shall be kept neat and clean and all damage thereto or to its surroundings shall be made good by the Painting Contractor. All soiled or used rags, waste and trash must be removed from the building every night, and every precaution taken to avoid fire.

10.5 Materials:
a) Unless otherwise approved, materials shall be of the proper type as produced by one of the following manufacturers: Pratt & Lambert, Inc., Detroit Graphite Company, Rustoleum Corp., Martin-Senour, Devoe & Raynolds Company, Inc., Benjamin Moore & Co., O'Brien, United States Gypsum Company, Sherwin Williams, or Dutch Boy.

Above materials shall be delivered in original, unbroken containers; other materials such as linseed oil, shellac, turpentine, etc., shall be pure and of the highest quality and shall bear identifying labels on their containers. Colors shall be as shown and the Contractor shall supply samples of colors to the Owner if requested.
b) Materials used shall be exactly as specified in brand and quality; no claim as to the unsuitability or unavailability of any material specified, or to unwillingness to use same, or of inability to produce first-class work with same, will be entertained unless such claims are made in writing and submitted with the bid.

10.6 Mixing: Prepared materials shall be applied in the consistency manufactured and shall not be thinned or adulterated. Paint shall be mixed on the premises in light receptacles which shall be clean and of ample capacity. Floors, walls and other permanent parts of the building shall be protected from spattering, dropping, and staining from paint, oil, etc.

Paints shall be tinted as recommended by the manufacturer. Turpentine or Japan Drier shall not be used to hasten drying unless permitted by the Owner.

10.7 Workmanship:
a) Workmanship shall be the very best; only skilled mechanics of experience and known ability shall be employed.
b) Finished materials shall be applied only to clean, warm, dry surfaces that have been properly prepared for finishing by this Contractor and, where necessary, rust, grease, excess mortar, etc., has been removed by wire-brushing or washing with an acceptable solvent. Care shall be taken to avoid painting surfaces while they are exposed to hot sun or if they shall be exposed to freezing conditions before the paint has had ample time to dry.
c) All galvanized steel surfaces shall be pre-treated with proprietary acid-bound resinous or crystalling zinc phosphate preparations, used according to manufacturer direction prior to painting.
d) All finish woodwork and millwork shall be sanded prior to the first coat and after every coat thereafter. Nail holes, cracks, and other defects shall be putted flush with adjoining surface with putty of a color to match that of the finish after the first coat.
e) All materials shall be applied under adequate illumination, evenly spread and smoothly flowed on without runs or sags so as to provide an even, smooth, uniform surface.
f) Tops, bottoms and edges of doors shall be finished the same as the balance of the door after they are fitted by the carpenter.
g) This Contractor shall protect his work at all times and shall also protect all adjacent work and materials by suitable covering or other methods in the progress of his work. Upon completion of his work he shall remove all paint and varnish spots from floors, glass and other surfaces. He shall remove from the premises all rubbish, debris and other accumulated materials of whatever nature caused by his work, and shall leave his part of the work in a clean, orderly and acceptable condition.

10.8 Exterior Painting:
a) All surfaces shall receive two coats of paint unless otherwise noted.
b) Metalwork: Rear doors, drain pipes, and posts - Sand #171-52 Dutch Boy Premium Latex Low Sheen Enamel.
c) Exposed Wood: Rafter tails, soffits, bell yoke, and outriggers - Rusty Brown #175-39 Dutch Boy Exterior Latex Stain.
d) Wrought Iron: Outrigger lanterns, post lamps - Black High Gloss Enamel.
e) Bell: Fiberglass bell - Gold #109-43 Dutch Boy Premium Dry Swift Enamel.
f) Wooden Tumbling Blocks: All lettering shall be: Tulip Yellow #2840 Dau's Styletone Paint.
g) Wooden Tumbling Blocks Background:
#107-58 Dutch Boy Premium Enamel, Chinese Red - T in Taco and B in Bell
#107-86 Dutch Boy Premium Enamel, Garden Green - A in Taco and L in Bell
#107-54 Dutch Boy Premium Enamel, Bright Orange - C in Taco and First L in Bell
#107-74 Dutch Boy Premium Enamel, Royal Blue - O in Taco and Second L in Bell
h) Pole Sign: Pole sign shall be: Canary Yellow
i) Metal Trash Barrels: Barrel shall be Tulip Yellow #2840 Dau's Styletone Paint. Lid shall be Orange #2740 Dau's Styletone Paint.
j) Exterior Dining Areas: Curbing and patios - Tile Red #103-52 Dutch Boy Premium Porch and Floor Enamel - To be bid as an alternate.
k) Painting Lot Light Standards and Bumper Poles - White #107-10 Dutch Boy Premium Enamel.

10.9 Interior Painting:
a) Interior Painting: Finish coating of drywalls and ceilings, and miscellaneous woodwork shall be painted two coats of paint as specified.

Defects in shop priming coats, spot prime in field and spot prime welds, rivets, spacers and bolts as required, shall be painted with ferrous metal and steel primer. Rust control A57-R17.

All exposed concrete block walls in kitchen and utility areas shall receive one coat of "Block fill" and two coats of white semi-gloss enamel.
b) Walls and Trim: Walls, interior, doors, shelves, evaporative cooler vents, order boards, walk-in cooler (if touch up is required), and pipes - Dutch Boy High Gloss Diamond White Enamel.
c) Equipment (if touch up is required): Stove, fryer, ice machine - Light Grey #103-61 Dutch Boy Premium Porch and Floor Enamel.

10.10 Exterior Waterproofing: All exposed exterior cinder block shall be sprayed with two (2) coats of [illegible] FILM water repellent. [illegible] shall be applied by a low pressure spray unit, flooding the surface to the point of maximum absorption as indicated by a random of eight inches (8") to twelve inches (12").

SECTION 11 - GLASS AND GLAZING

11.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are a part of this contract.

11.2 Scope: Aluminum entrance doors, frames, transoms, sidelights, trim mouldings, and other related items shall be as detailed drawings and as manufactured by "Architectural Products Division", Terrell, Texas - a division of Howmet Corporation.

11.3 Material: Door members shall be extruded architectural aluminum alloy 6063-T5. Wall thickness of all door sections, except glazing beads, shall be .125" minimum. Wall thickness of frame members, except glazing beads, and glazing pockets, shall be .125" minimum. Screws, nuts, washers, bolts, rivets, and other fastening devices shall be aluminum, stainless steel, or other non-corrosive materials.

11.4 Hardcoat Finishes: All exposed aluminum surfaces shall be given an anodic coating of not less than .007" thick Kalcolor Amber.

11.5 Door and Frame Construction: Door stiles and rails shall be tubular sections accurately joined at corners with heavy concealed reinforcement brackets secured with bolts and screws, and shall be MIG welded. Doors shall have snap-in stops with bulb glazing vinyl both sides of glass for puttyless glazing. No exposed screws shall be permitted. Each door leaf shall be equipped with an adjusting mechanism located in the top rail near the lock stile which provides for minor clearance adjustments after installation. A hard-backed poly-pile weatherstrip shall be installed in the hinge stiles of pairs or single center hung doors. The lock stile of a single center hung door, or center hung doors shall have an adjustable astragal weatherstrip. Frames shall be accurately joined at corners with unexposed screws in extruded splines, which are an integral part of all horizontal members.

11.6 Standard Hardware: Single acting doors shall have Adams-Rite Maximum Security Deadlock, PH-1 Pull Handle and PB-1 Push Bar. Single acting doors requiring [illegible] shall be furnished with [illegible] and [illegible] Offset Pivots.

11.7 Arched Window Frames: Window Frames shall be of 3/16" x 1-3/4" aluminum bar stock accurately formed to the radius as shown on the drawings. The frames shall be jig formed and delivered to the job site suitably braced and protected for installation and glazing. Glass shall be installed with vinyl glazing beads and 1/2" x 5/8" aluminum applied over both sides of glass.

11.8 Aluminum Cover Plates: Provide .060 sheet aluminum cover plates over all wood columns, mullions, and storefront as shown on the drawings. All exposed surfaces shall be given an anodic coating of not less than .007" thick Kalcolor Amber.

11.9 Erection: All openings shall be prepared plumb and square by others and shall be of sufficient size to provide 1/4" clearance at jambs and head (and sill as required) of frames. Installation, glass and glazing shall be performed by experienced technicians, according to the manufacturers recommended procedures. All units shall be securely anchored and ready for operation. All frames shall be set against 1" diameter neoprene rope and caulked with bronze silicone caulk as detailed.

11.10 Cleaning: Upon completion of construction the General Contractor shall be responsible for cleaning all aluminum, employing methods recommended by the manufacturer as follows: Aluminum shall be cleaned with plain water containing a mild detergent, or a petroleum product such as white gasoline, kerosene or distillate. No abrasive agent shall be used.

SECTION 12 - QUARRY TILE/CERAMIC TILE

12.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are a part of this contract.

12.2 Scope: The Contractor for the tile work shall furnish all labor, materials, tools and equipment, deliver, install, and finish all ceramic tile work. Refer to the drawings and finish schedule for areas requiring quarry tile.

12.3 Materials: All quarry tile shall be 8" x 8" x 1/2" standard grade V-Bak quarry tile, ground four sides after firing as manufactured by the American Olean Tile Company, Lewisport, Kentucky. Tile shall conform to ANSIA-137, 1-1967 and Federal Specification SS-T-308c. Base shall be 4" x 8" x 1/2". All base shall be cove to match tile.

12.4 Color: All quarry tile and base shall be as indicated on the architectural drawings.

12.5 Applications: Mix mortar as per manufacturer's directions. Cover evenly with no bare spots. Comb mortar with notched trowel within ten minutes of applying tile. Grout when tile is firmly set - no less than 24 hours. Cure grout by keeping damp for at least 72 hours. Acid-And Alkali-Resistant Grout Tile Council of America, Inc., formula AAR-11, acid-and alkali-resistant grout shall be used. Color shall be black.

[illegible] FORMULA [illegible] 3-B DRY SET MORTAR AND LATEX [illegible]

12.6 Ceramic Tile: For interior walls shall be 4 1/4" x 4 1/4" pre-grouted [illegible] white #47 American Olean set in strictest compliance with manufacturer's specifications and recommended installation procedure. Tile joints shall be grouted with ceramic grout, color: white. Grout joints shall be moist cured. See drawings for color. (Base to be quarry tile).

12.7 Workmanship: All ceramic and quarry tile to be installed conforming to American National Standards Institute specification A108.3. Mixing data is on a volume basis.

SECTION 13 - ROOFING AND METAL FLASHING

13.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are a part of this specification.

13.2 Scope: This contract shall include all necessary labor, materials, services, equipment, transportation, taxes, etc., as required for the completion of all sheet metal work, roofing and their installation as shown on the drawings and specified herein. Sheet metal work shall consist of flashing, counter-flashing, gravel stops and pitch pans as required by the drawings.

13.3 Workmanship: All work shall be performed in a cooperative manner by the trades concerned with this section so as to assure a weathertight roofing membrane. All workmanship shall be in accordance with the best trade practices and shall comply with the manufacturer's recommendations.

13.4 Materials and Methods:
a) Flashing: Shall be galvanized sheet metal (minimum 24 ga.) or other material as shown. Details shall allow for expansion and assure weather-tightness. Solder all corners of galvanized flashing.
b) Mission Tile Roof:
1. Tile: Terwilliger-Celadon
   a. Fittings: Short course, top fixtures, eave closures (bird stops) 3/4" with cover for rake, 8" boosters.
2. Nails:
   a. Non-corrosive (preferably copper) 11 gauge, large headed length to give proper penetration. On plywood, use ring type nail, point should just penetrate underside of deck. On board, use slaters nail of at least 1 1/2" but do not penetrate underside of deck.
3. Felt: 43# per square asphalt impregnated roofing felt.
4. Cement & Mastic:
   a. Mortar
   b. Mastic - ASPHALTIC-non-running heavy body plastic cement composed of asbestos fibers, asphalt and other mineral ingredients. Sealant - Silicone ASTM-D-1002 or ASTM-E-42.
5. Wood Strips: Provide 1 x 4 in. strips under cover tile and 1" stringers of necessary height under hip roll and Ridges (height varies with [illegible])
6. Installation:
   1. Lay felt parallel to eave, lap 2" [illegible] on 6" Centers.
   2. Work from right to left. Lay tile [illegible] angles to eave, lapped 3". Fasten each tile with [illegible] nails, use #1, 2, 3 nails as required in each tile or fitting.
   3. Cement [illegible] field tile and bedded [illegible] tiles.

[illegible] FOR STANDARD TACO BELL ROOFING PACKAGE FROM LUDOWICI-CELADON 101 N. TALMAN CHICAGO, IL 60612 312/722-7700.

d) Vapor Barrier: Shall consist of one layer of 15# asphalt saturated felt uniformly mopped to the deck with a minimum of 25 lbs of asphalt per square. This felt shall be turned up, but not cemented to, all vertical surfaces to a height of 6" and shall overhang all roof edges a similar amount.

e) Flat Roofing: Shall be Johns-Manville Company spec. #601, or Bird spec. C-3-MP gravel surface built-up roof, or approved equal. All roofing materials shall be installed with the strictest adherence to the manufacturer's specifications. Prior to installation of the built-up roof, this Contractor shall inspect the area with which his work shall be concerned and shall report any conditions which he feels will be detrimental to the finish product to the Owner immediately. The laying of any material by this Contractor shall be considered as an indication of the acceptance of the base by him, both horizontal and vertical.

The base roofing ply shall extend a minimum of 12" beyond edges of roofing as shown; succeeding roofing plys shall be installed and the base ply turned back and mopped into place enveloping other plys. Metal flashings, etc., shall be "stripped in" with two plys of 30 pound felt, minimum 10" wide, mopped in place.

f) Flat Roofing (Continued):
This Contractor shall take particular care to protect finished work and materials during his work to prevent any damage to same, particularly as may be caused by hot asphalt. Should asphalt drip or be spattered on other work, this Contractor shall restore the damaged areas to their original condition.
g) Cleaning Up: During his work this Contractor shall pile all debris, papers, etc., created by his work. Upon completion he shall remove any excess materials or debris created by his work.

13.5 Guarantee: This Contractor shall guarantee in writing, unconditionally, for a period of two (2) years from the date of acceptance of the work, all roofing and flashing to be watertight and free from leaks.

REGISTERED PROFESSIONAL ENGINEER MICHAEL J. MADONE No. STATE OF CALIFORNIA

SECTION P - PLUMBING

P.1 General Conditions: The General Conditions and the Supplementary General Conditions chapters of the specifications shall apply herewith.

P.2 Scope: Contractor shall furnish all labor, materials and equipment necessary for a complete and operable installation of water, sanitary and storm sewer systems, including waste and vent piping, water service, meter, tap, valves and boxes, cold water piping, hot water piping, all gas piping, water heater, plumbing fixtures and fittings, and all related controls, fittings and appurtenances, connecting of all equipment provided by the Owner and all other work as required by the drawings and specifications. Should special engineering drawings be required to complete connections, with city utilities, their cost shall be included as part of this contract, as well as all work included by them.

Plumbing Contractor is cautioned to pay strict attention to drawings and specifications for connecting equipment provided by the Owner, and shall include all materials and labor for this work. Furnish and install all necessary fittings and materials as required to comply with local codes and job conditions.

This contract shall include all required utility trenching as well as sand backfilling of same for work covered herein.

P.3 Permits and Inspections:
a) All work shall be installed in strict accordance with State, County and Municipal Ordinances and Regulations. The Contractor shall report any discrepancies between the drawings and any governing ordinances and regulations to the Owner at the time of bidding. Upon submitting his bid, the Contractor shall be held responsible for all costs incurred for providing a additional work required due to local ordinances and regulations.
b) All permits and fees shall be applied and paid for by this Contractor, including all required inspections for water, gas and sanitary and storm drainage systems including required meters, taps to mains and connections to sewers.

In areas where sewers are not available the General Contractor will be furnished a set of sewage disposal drawings prepared by Owners engineers. All costs for permits, installations and inspection of system shall be included in Plumbing Contractor bid. All work shall be in conformance with local codes.
c) Dimensions for all underslab piping are critical for later equipment installation. Contractor is therefore cautioned to pay particular attention to Sheet P-1 of the drawings and cross reference all drawings in his work including the elevations showing dimensional location of all work.

d) Tests: This Contractor shall run tests on all supply and waste piping prior to concealment or burial in concrete slabs, walls, etc. Waste piping is to be tested by capping or plugging all lower openings and filling entire system to the top of the vents with water and this allowed to remain for at least 30 minutes. Water piping shall be tested by means of maintaining 75 psi of air pressure within the entire system for a period of not less than 15 minutes. The Owner shall be supplied with the results of all tests in writing.

P.4 Materials:
a) Water Supply Piping: Water piping above grade shall be type "L" hard copper tubing; below grade shall be type "K" soft copper. Solder shall be 95-5 type. No alternates to above will be permitted.

Piping shall be of minimum sizes indicated on the drawings; however, mains shall generally by 3/4" with 1/2" or 3/8" branch piping to fixtures and equipment, or in accordance with local code. Standard air chambers, 20 times pipe diameter in length and one size larger in diameter, shall be provided at all fixtures and as required elsewhere in accordance with good practice. Exposed piping in finished rooms shall be chrome plated brass piping of iron pipe size.

All hot water lines and all lines in unheated spaces shall be insulated with 1/2" thick B.F. Goodrich or U.S. Rubber flexible insulation tubing. All piping passing through concrete shall be wrapped with plastic tape. No joints in water piping will be permitted below slab.
b) Water Service shall be complete with meter; trenching and backfilling for service are by this Contractor.
c) Underground Sewers within the building and to a point 5'0" outside of the building shall be extra heavy B & S cast iron pipe, asphalt coated, with caulked oakum and lead joints or neoprene compression gasket joints. Pitch of sewer shall be approximately 1/8" per foot, minimum, and shall be made with Y's and one-eighth bends. Cleanouts shall be installed at locations and shall be brass screw type; in finished rooms cleanouts shall be flush type chrome plated brass.
d) Underground Sewers shown as [illegible] shall be vitrified clay sewer pipe with Amvit joints (or as required by local code), extra heavy strength under paved areas. Size shall be as per local code but in no instance shall size be less than 6". Trenching and backfilling shall be by this Contractor and shall be sand or granular fill.
e) Storm Drainage shall be per local conditions and site requirements. Yard, curb and gutter drains, if shown on the Owner's plot plan or required by law, shall be properly installed and connected by this Contractor. Roof drainage shall spill on grade unless locally required to be tied to the storm sewer, in which case this Contractor shall complete installation.
f) Grease trap shall be A 1000 GALLON GREASE TRAP

[illegible] local codes require size other than unit specified this Contractor shall include properly sized unit at no additional cost, and shall notify the Architect that a change in size has been made. The Contractor shall also supply the operator with two packages of Waste Bio-Mix Compound.
g) Floor drains, where shown, shall be Josam, Zurn, Wade or Jay R. Smith, Inc. Strainer and other exposed parts shall be polished brass.

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h) Waste and vent piping shall be type DWV copper with casts sweated fittings or galvanized pipe with "Surham" threaded fittings. All vertical stacks shall be firmly supported at their base. Vents shall be increased at the roof a minimum of one pipe diameter larger (however, in no case less than 3"), and shall extend at least one foot above the finished roof surface. Vents shall be flashed with 6# sheet lead flashing rolled down inside the vent and having at least an 18" x 18" flashing base. Flashing shall be custom made to neatly fit the pitch of the roof without bending or further modification on the job. Base shall be flashed in between the 30# roofing felt and the built up roof in such a manner as to assure a weather-tight condition. Copper vent flashing may be used in lieu of lead subject to the same installation conditions.
i) Pot sink an kitchen equipment: Pot sink, and kitchen equipment in stainless steel shall be supplied to the Contractor by the Owner's equipment company and this Contractor shall plumb same. The Plumbing Contractor shall supply all necessary trim and fittings, including faucets, traps, stops, etc. Faucets for pot sinks shall be T & S #B-221 with 12" swing spout; 8" centerset, ledge mounted. Service sink and hand sinks to be supplied and installed by Plumbing Contractor.
j) Fixtures: Provide and install fixtures and fittings as indicated on the drawings. Crane, Kohler and Eljer of comparable quality shall be considered as equals.
k) Sill Cocks: Furnish and install where shown on the drawings Woodford sill cocks. All sill cocks to be 3/4" brass finish and an anti-freezing type. Sill cocks to have brass body compression valves.

P.5 Water Heater: Shall be Ruud GL 100-75-5, 100 gallon capacity water heater. Unit shall be complete with temperature and pressure relief valve piped to floor, drain cock and all controls. A.O. Smith, Day and Night, or Rheem, with glass lined tank, shall be considered approved equals when of comparable storage capacity and recovery capacity.

P.6 Water Conditioning Equipment: Provide and install all necessary piping, tees, shutoffs, etc., as normally would be required for the installation of filtering and conditioning equipment (to be provided and installed by others) as part of this Contract.

SECTION H - HEATING, VENTILATING AND AIR CONDITIONING

H.1 General Conditions: The General Conditions and the Supplementary General Conditions chapters of this specification shall apply herewith.

H.2 Scope: This Contract shall include all necessary labor, materials, equipment, transportation, licenses, fees, permits, bonds and taxes required for a complete and operable installation of heating, ventilating and air conditioning systems. All work shall be installed in strict accordance with State, County and Municipal ordinances and regulations. The Contractor shall report any discrepancies between the drawings and any governing ordinances and regulations to the Owner at the time of bidding. Upon submitting his bid, the Contractor shall be held responsible for all costs incurred for providing additional work required due to local ordinances and regulations.

H.3 Materials and Methods: Materials and methods as listed here are for the purpose of providing general information. It shall remain the responsibility of the supplying Contractor to assure that all equipment meets local requirements in respect to design and safety features.
a) Furnace and Air Conditioning Equipment: Shall be [illegible] Units shall be complete the size, type, and capacity with controls as indicated. Units shall be complete with thermostat fan control, high and low limit controls and all necessary safety controls and control wiring.
b) Ductwork: Is 26 ga. minimum galvanized sheet metal, insulated with 1" fiberglass duct insulation with integral type vapor barrier, and is to be fabricated in accordance with A.S.H.V.E. recommendations. Ductwork is to be securely fastened to building framing components. Duct sizes shown indicate free area.
c) Exhaust Fans: Acme, Ilg, Greenheck or approved equal, complete with prefabricated curbs, bird screens, dampers, disconnect switches and other appurtenances as indicated in the fan schedule.
d) Registers, Grilles, Diffusers and Louvers: Shall be as manufactured by Titus, Krueger, or equal, curved blade type, aluminum of type, capacity and size shown on the drawings. All registers and diffusers shall be furnished with opposed blade volume control dampers.
e) Motor Starters and Electrical Characteristics: This Contractor shall furnish manual disconnect switches with thermal overload protection and pilot lites for all motors under 1/2 HP, and magnetic starters with three leg protection and pilot lights for all motors 1/2 HP and over. These disconnect switches and starters shall be furnished to the Electrical Contractor who will install them.

Heating Contractor shall verify with the Electrical Contractor the voltage and phase of service to the building.

H.4 Workmanship: Workmanship shall be only of the very best, in accordance with best trade practices. All ductwork shall be fabricated in accordance with the A.S.H.V.E. specification and SMAGNA standards and shall be neatly and securely fit into the building construction. All joints and connections shall be neat and shall be tight, and entire installation shall be securely attached to building construction.
This Contractor shall cooperate with other trades, particularly those having work affected by his work, in order to expedite the project and produce a neat finished product.
The Contractor shall do all cutting and chipping, drilling (except where otherwise noted) as may be required for the installation of his work, shall pay the cost of repair of damage due to cutting or other work not authorized by the Architect. The cost of such damage will be deducted from the amount due to the Contractor in this contract.
Upon completion of the installation the Contractor shall balance and adjust the entire system to assure proper operation and operation within the range of local geographical design standards. Provide the store operator with complete written instructions regarding proper maintenance and operation of the entire system.

H.5 Guarantee: Provide a written unconditional one-year GUARANTEE against defects in workmanship and material to start at the date of acceptance of the work. Additional four-year factory WARRANTY on motor-compressor assemblies shall be provided also.

SECTION E - ELECTRICAL

E.1 General Conditions: The General Conditions and the Supplementary General Conditions chapters of the specifications shall apply herewith.

E.2 Scope: This contract includes all necessary labor, materials, equipment, transportation, taxes, etc., to complete the installation of all electrical lighting and power wiring as shown on the drawings and as may be specified herein, including complete service installation and electrical connection of equipment and lighting fixtures furnished by the Owner.
All work shall be installed in strict accordance with state, county and municipal ordinances and regulations. The Contractor shall report any discrepancies between the drawings and any governing ordinances and regulations to the Owner at the time of bidding. Upon submitting his bid, the Contractor shall be held responsible for all costs incurred for providing additional work required due to local ordinances and regulations.

E.3 Rules and Regulations: All apparatus and materials used and the manner of installation shall conform in all respects with the latest rules and requirements of the National Electrical Code, governing building codes and local governing utility company, anything in this specification or the drawings to the contrary notwithstanding.

E.4 Materials and Methods:
a) Cutting and Patching: This Contractor shall do all cutting and chipping, drilling, (except where otherwise noted) as may be required for the installation of his work, shall pay the cost of repair or damages due to cutting or other work not authorized by the Architect. The cost of such damage will be deducted from the amount due the Contractor in this contract.
b) Conduit: Shall be "thinwall" electrical metallic tubing throughout except for conduits over 2" in diameter and all conduit buried under or within the concrete floor slab which shall be rigid steel pipe conduit with threaded connections. Fiber duct, if used, shall be "Orangeburg" enclosed in concrete. All metal conduit shall be as manufactured by National Electric Products, Youngstown Steel or Republic Steel Corporation. All conduit on roof shall be rigid steel pipe, galvanized inside and out.
c) Wire and Cable: Shall be copper type THW or THWN for sizes #8 AWG and smaller and RHW for sizes #6 AWG and larger. Wire and cable shall be as manufactured by Anaconda Wire and Cable, General Cable, General Electric, or Simplex Wire and Cable. Minimum wire size shall be #12 AWG except for 24 volt wiring which shall be per equipment supplier's specifications. #8 AWG wire and larger shall be stranded.
All conduit shall be swabbed thoroughly before pulling any wires. All wires for a circuit shall be in the same conduit, and shall be continuous without splices except in outlets or junction boxes. Solderless connectors shall be used wherever possible and shall be Thomas & Betts "Lock-ITT" for #8 AWG conductors and larger and uninsulated 3M "Scotchlok" spring connectors for #10 AWG conductors and smaller.
d) Outlet boxes, junction boxes, pull boxes, etc.,: Shall be code gauge galvanized steel of required size and shall be furnished with covers, plaster rings, etc., as required. All boxes shall be securely fastened, and mounted plumb and true, ready to receive finish materials.
e) Wiring devices, switches and receptacles, etc.,: Shall be specification grade manufactured by Harvey Hubbell, Pass & Seymour or equal. Switches shall be Hubbell 1201-1 (15 amp) or 1221-1 (20 amp); convenience receptacles shall be Hubbell #5662-1 (15A-250V) or #5382-1 (20A-125V). All outlets shall be properly grounded; all plates shall be brushed stainless steel.
f) Panels and Switches: Shall be Square D as shown on the drawings. Upon completion of his work this Contractor shall fully index and permanently label all circuits at the panels.
g) Service: Shall be 200 ampere, 120/240 or 120/208, 3 phase 4 wire underground electric service as shown on the plans. Contractor shall give alternate price for overhead service. Contractor shall verify type of service available and shall list same on his proposal. All services shall be bid complete.
Temporary service shall be installed by this Contractor for use during the period of construction. Such service shall be minimum 100 ampere, 120/240 volt, 3 wire service.
h) Sign and Parking Area Lighting: Shall be installed underground complete, including trenching, by this Contractor. Minimum one inch (1") rigid conduit, 4 dip galvanized and asphalt painted, shall be buried at least 2'0" below finish grade. Conduit shall be capped during construction to prevent entrance of foreign matter and shall be swabbed dry before pulling wires. Refer to Plot Plan and Sheet E-1. Contractor shall submit alternate quotation for direct burial cable in blacktop areas.
i) Equipment: As provided by the Owner shall be hooked up by this Contractor as required and shall include all required fittings, switches, fuses, etc. Flexible connections shall be Greenfield armored cable. This includes food preparation equipment, food heat lamps, etc.
j) Heating, Ventilating and Air Conditioning Power and Control Wiring: Shall be by this Contractor. Units are prewired at the factory and this Contractor shall supply power to units and hookup of same, wiring to the thermostats, control panels and installation and wiring of duct-stat in discharge air of make-up air unit (where required by code), interlock wiring to exhaust fans, power and control for exhaust fans.
k) Electrical Fixtures: Shall be furnished and installed by this Contractor as shown on the drawings. Fluorescent strip lights shall be equipped with top line, ETM-HPF certified ballasts.
[illegible]
Hand dryers shall be wall mounted manufactured by World Dryer Company and shall be supplied and installed by General Contractor.

SECTION L - LANDSCAPE

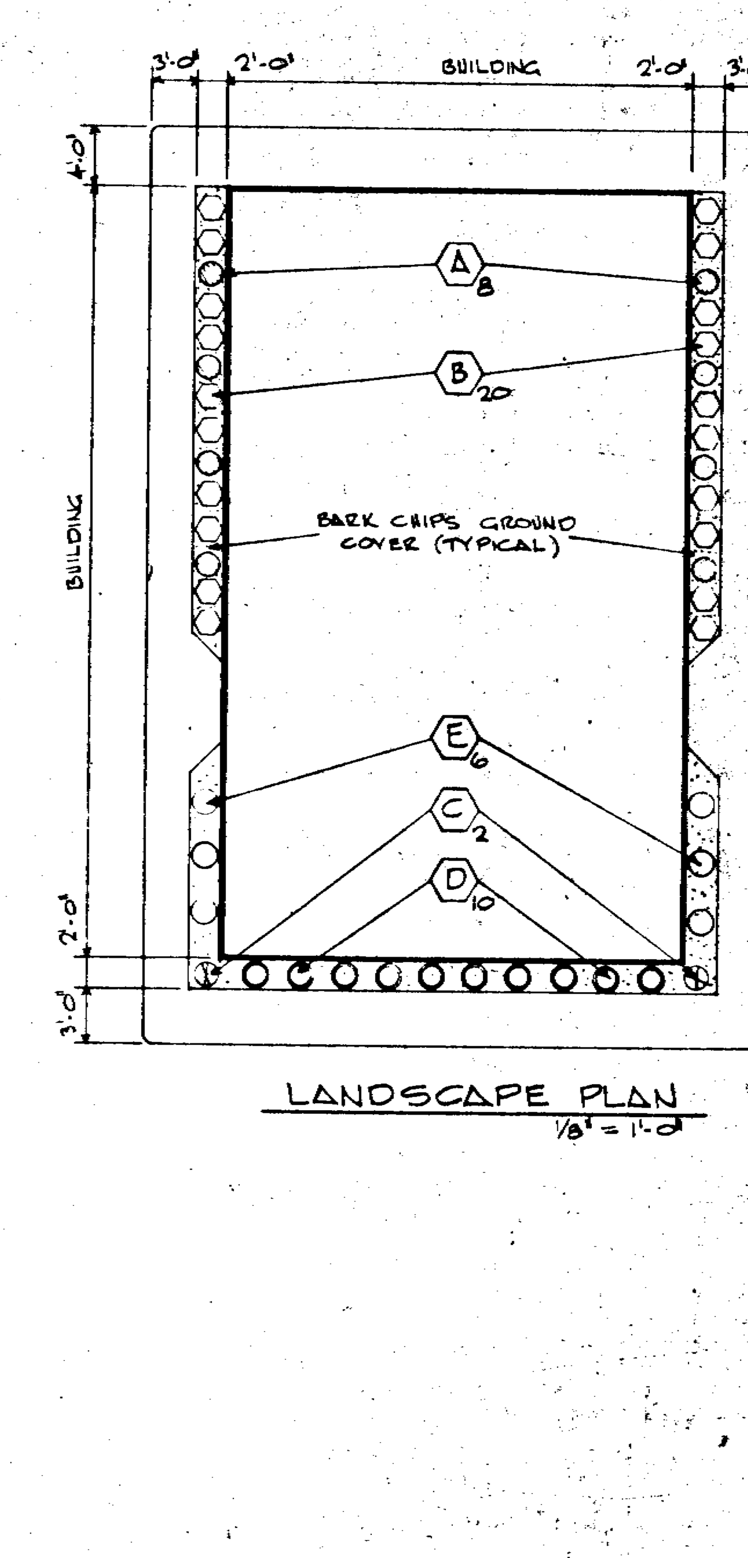
L.1 General Conditions: The General Conditions and the Supplementary General Conditions chapters of the specifications shall apply herewith.

L.2 Scope: This contract includes all necessary labor, materials, equipment, transportation, taxes, etc., to complete the installation of all landscaping as shown on the site plan and as may be specified herein.

L.3 Materials: Materials as shown on the site plan and as listed here are for the purpose of providing general information. The supplying Contractor shall ascertain that plant materials are hardy under local climatic conditions.
If in the opinion of this Contractor these materials are unsuitable, he shall submit with the bid an alternate list of materials.
All plant material shall be of the best quality available and be delivered in a live growing condition. All shrubs shall be balled and burlapped.
a) Arbor Vitae: Mark (A) Arbor Vitae uprights 3'-0" to 4'-0" high planted size.
b) Yews: Mark (B) Intermediate Yew Japanese Yew, Taxus Cuspidata, 2'-0" planted size.
c) Upright Yews: Mark (C) upright Hicksi Yew, 2'-0" planted size.
d) Hedge: Mark (D) Hedge Euonymus Alatus Compactus 2'-0" planted size.
e) Hedge: Mark (E) Euonymus Patens, 18" to 24" planted size.
f) Ground Cover: All planting areas surrounding building shall be covered with 2" minimum of Redwood Bark Chips.

L.4 Workmanship: Workmanship shall be only of the very best, with materials placed in accordance with the best trade practices.
Upon completion of installation, this Contractor shall remove all unused and waste materials and shall leave paved areas adjacent to landscaping in a broom clean condition.

L.5 Maintenance and Guarantee: Shall maintain for a period of thirty (30) days all plant materials placed in this contract. At the end of this thirty (30) day period this Contractor shall remove and replace dead or dying plant materials at this Contractor's expense.
Provide the store operator with complete written instructions regarding care and maintenance of all plant materials.



LANDSCAPE PLAN
1/8" = 1'-0"

SECTION S - STUCCO

S.1 General Conditions: The General Conditions and the Supplementary General Conditions of this specification apply to and are part of this contract.

S.2 Scope: This contract includes all necessary labor, materials, transportation, taxes, equipment, etc., as required to complete all stucco work as shown on the drawings or as specified herein.

S.3 Materials:
a) Stucco: Type IA or IIA Portland Cement ASTM C135 Air Entraining White.
b) Lime: Type S Hydrated Lime ASTM C206.
c) Aggregate: Clean, solid, well graded from fines to 1/8" maximum) and free from deleterious matter per ASTM C144.
d) Lath: Diamold or Stucco mesh 3.4/sq. yd galvanized copper alloy steel with self-furring (minimum 1/4" space) reinforcing.
e) Accessories: Corner beads, soffit and foundation screeds, etc., to be minimum 26 ga. expansion joints to be type 15, gold bond, milcor or equal. Flashing to be as detailed minimum 26 ga. fasteners to be type NGC S-12 screws. All accessories to be galvanized.

S.4 Storage: All material shall be stored and handled so as to protect them from moisture, contamination or other damage.

S.5 Workmanship: All work shall be done in a neat uniform manner by skilled tradesmen.

Apply stucco only when temperature is above 50° F. and will be maintained throughout the setting period. Moist cure before next coat with fine water spray.

Apply metal lath over building paper with long direction across studs. Lap sides minimum 1/2" and ends minimum 1". Stagger end laps in succeeding courses.

Mix stucco proportions (by volume) as follows:
Scratch Coat
1 part Portland Cement
1/4 part lime
3 parts sand
Brown Coat
1 part Portland Cement
1/4 part lime
5 parts sand
Finish Coat
1 part White Portland cement
1 part lime
1 part silica sand

Scratch Coat: Apply evenly to uniform thickness 3/8". Squeeze through lath to backing to form mechanical key and embed mesh completely. Cross rake entire surface when stucco is firm but not dry. Moist cure 12 to 24 hours - total set 48 hours.
Brown Coat: Apply uniform and level to 3/8" thickness. Interrupt work only at screeds, control joints and corners. Lightly score surface. Moist cure 12 to 24 hours - Set 7 days.
Finish Coat: Dampen brown coat evenly prior to applying finish coat to obtain uniform suction. Trowel 1/8" thick to swirl pattern. Moist cure 12 to 24 hours.
Protect all finish work during plastering and repair all damage. Remove all debris and excess plaster from walks, planting or other surfaces. All stucco shall be guaranteed for two (2) years against popping, peeling, cracking or other defects.

REGISTERED PROFESSIONAL ENGINEER
MICHAEL J. MAJORS
No [illegible]
STATE OF CALIFORNIA

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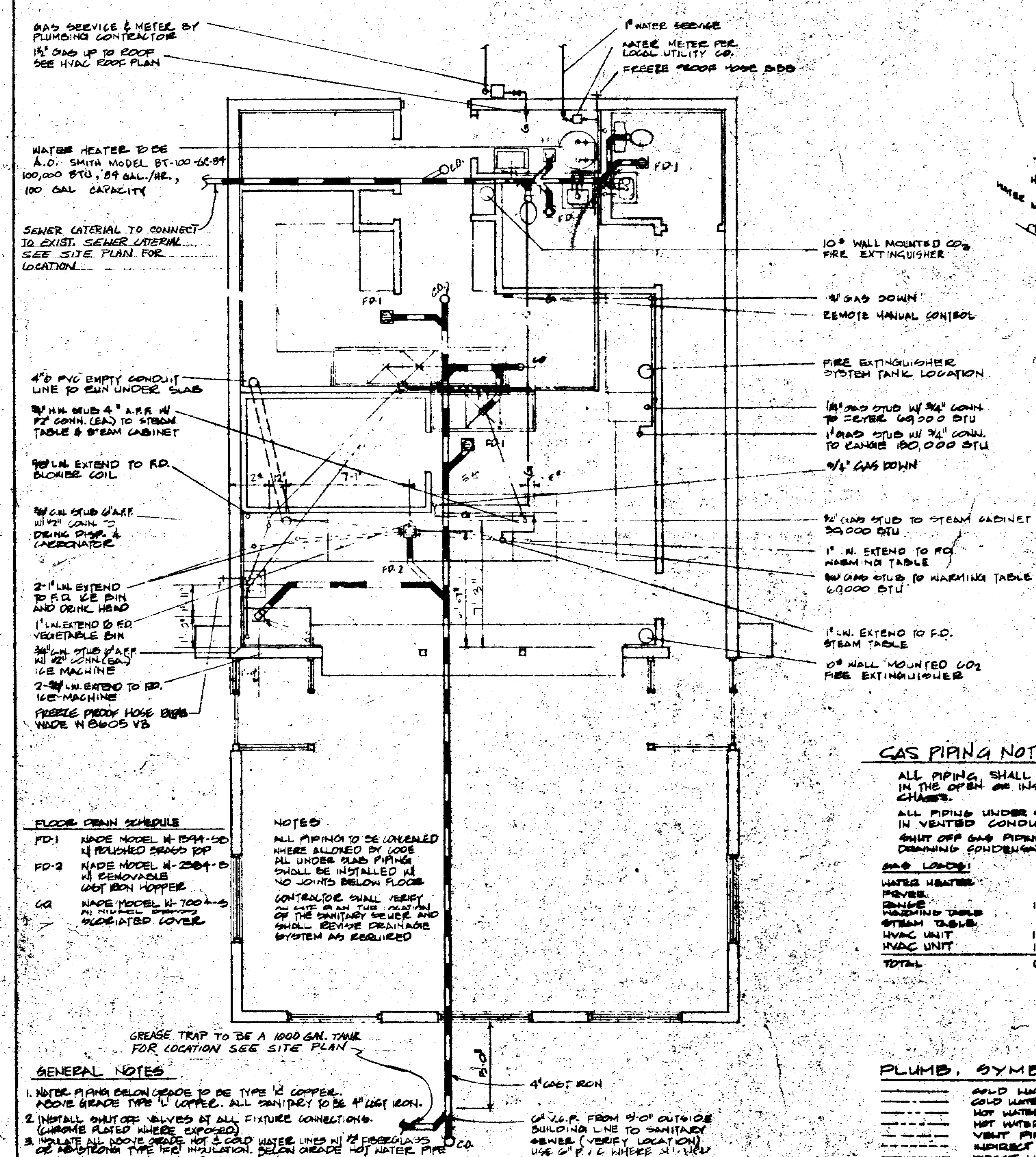
JOB NUMBER
78-[illegible]
DATE
5-25-78
SHEET NUMBER
SP-4



FLOOR DRAIN SCHEDULE

FD-1	WADE MODEL W-1594-5D W/ POLISHED BRASS TOP
FD-2	WADE MODEL W-2504-B W/ REMOVABLE CAST IRON HOPPER
CO	WADE MODEL W-7004-S W/ NICKEL BRONZE SCORIATED COVER

NOTES

ALL PIPING TO BE CONCEALED WHERE ALLOWED BY CODE. ALL UNDER SLAB PIPING SHALL BE INSTALLED W/ NO JOINTS BELOW FLOOR.

CONTRACTOR SHALL VERIFY ON SITE PLAN THE LOCATION OF THE SANITARY SEWER AND SHALL REVISE DRAINAGE SYSTEM AS REQUIRED

GREASE TRAP TO BE A 1000 GAL. TANK FOR LOCATION SEE SITE PLAN

GENERAL NOTES

1. WATER PIPING BELOW GRADE TO BE TYPE 'K' COPPER. ABOVE GRADE TYPE 'L' COPPER. ALL SANITARY TO BE 4" CAST IRON.
2. INSTALL SHUT OFF VALVES AT ALL FIXTURE CONNECTIONS. (CHROME PLATED WHERE EXPOSED)
3. INSULATE ALL ABOVE GRADE HOT & COLD WATER LINES W/ ½" FIBERGLASS OR ARMSTRONG TYPE 'FR' INSULATION. BELOW GRADE HOT WATER PIPE TO BE INSULATED W/ ARMSTRONG FR/ARMAFLEX INSULATION.
4. REFER TO EQUIPMENT DRAWINGS FOR LOCATIONS OF ALL CONNECTIONS AND DRAINS. MAKE ALL CONNECTIONS.
5. FURNISH & INSTALL LEAD FLASHING ON ALL PIPING PASSING THRU ROOF
6. CONTRACTOR SHALL PROVIDE ALL VALVES, FITTINGS, TRAPS, ETC. AS REQUIRED FOR THE INSTALLATION OF ALL PIECES OF EQUIPMENT

GAS PIPING NOTES

ALL PIPING SHALL BE LOCATED IN THE OPEN OR INSIDE VENTED CHASES.

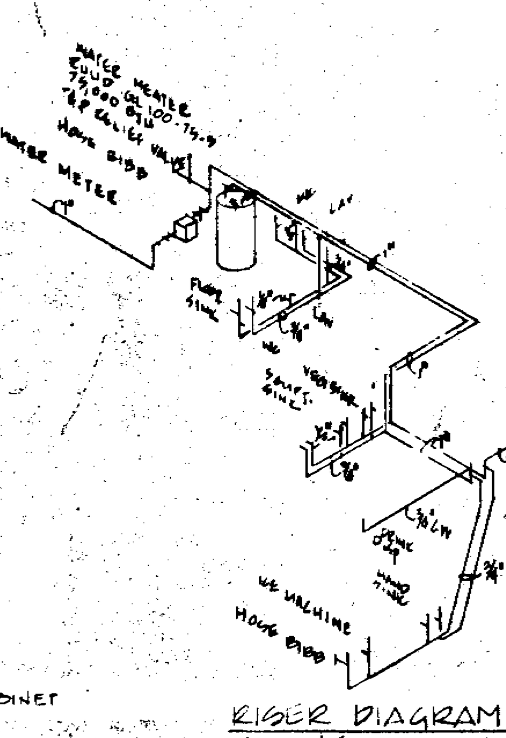
ALL PIPING UNDER SLAB TO RUN IN VENTED CONDUIT.

SHUT OFF GAS PIPING BEFORE DRAINING CONDENSATE.

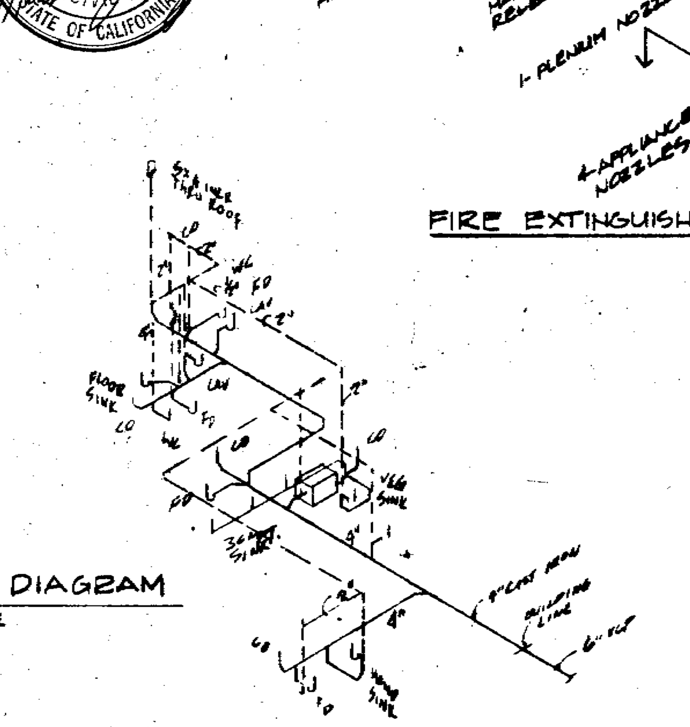
GAS LOADS:	
WATER HEATER	75,000 BTU
FRYER	60,000
RANGE	150,000
WARMING TABLE	45,000
STEAM TABLE	30,000
HVAC UNIT	150,000
HVAC UNIT	150,000
TOTAL	660,000 BTU

PLUMB. SYMBOLS

———	COLD WATER
———	COLD WATER UNDER SLAB
— - - —	HOT WATER
— - - —	HOT WATER UNDER SLAB
- - - -	VENT PIPING
— - —	INDIRECT WASTE
———	DIRECT WASTE
C.W.	COLD WATER
H.W.	HOT WATER
I.W.	INDIRECT WASTE
F.D.	FLOOR DRAIN
C.O.	CLEAN OUT
W.C.	WATER CLOSET
LAV.	LAVATORY
— G —	GAS LINE

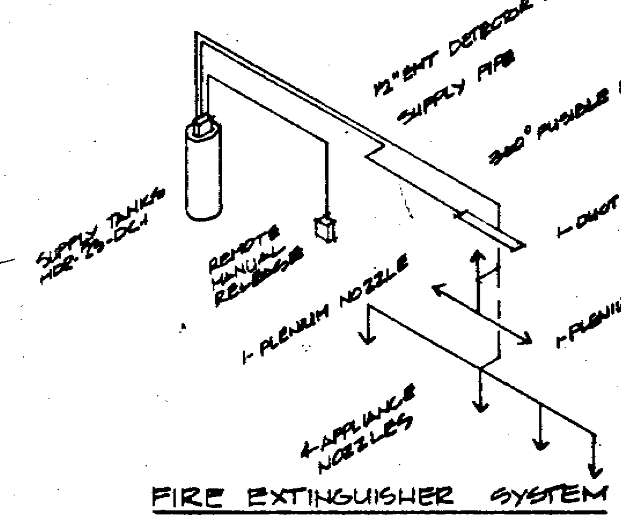


RISER DIAGRAM
NO SCALE



DRAINAGE DIAGRAM
NO SCALE

REGISTERED PROFESSIONAL ENGINEER MICHAEL J. MAJORS No. 24083 STATE OF CALIFORNIA



FIRE EXTINGUISHER SYSTEM

FIXTURE SCHEDULE

FIXTURES: CONTRACTOR SHALL FURNISH AND INSTALL FIXTURES AS REQUIRED COMPLETE WITH SUPPLIES, STOPS, TRAPS, HANGERS, SUPPORTS, SEALS, ETC... ALL EXPOSED SUPPLY PIPES, STOPS, AND TRAPS SHALL BE CHROME PLATED BRASS. ESCUTCHEONS SHALL BE INSTALLED WHEREVER PIPING ENTERS OR LEAVES A FINISHED WALL.

A) LAVATORY: AMERICAN STANDARD SCOTIAN LAVATORY CAT NO. 0360.087 WALL HANGER WITH 2285.062 LAVATORY FAUCETS (2- HOT & COLD), 2303.063 SUPPLY PIPES 4362.018 GRID DRAIN AND 4419.040 'P' TRAP SMITH LAVATORY SUPPORTS #700.

B) WATER CLOSET: AMERICAN STANDARD ELONGATED CADET TOILET NO. 2109.171 SIPHON JET ELONGATED BOWL, CLOSE COUPLED TANK, FREE STANDING, VITREOUS CHINA, 2 BOLT CAPS AND TANK COVER LOCKING DEVICE - 5320.536 SEAT (BLACK) WITH 3140 STAINLESS STEEL HINGE

C) HAND SINK: AMERICAN STANDARD LUCERNE LAVATORY CAT. NO. 0351.023 WALL HANGER AND NO. 2103.489 4" CENTER SET FAUCET WITH VANDAL-PROOF CROWN HANDLES, POP-UP DRAIN, AND AERATOR. AMERICAN STANDARD LEGS #2551.018.

D) KIT. SINKS: VEGETABLE SINK & 3 COMPARTMENT SINK SUPPLIED BY KIT. EQUIPMENT CONTRACTOR INSTALLED BY PLUMBING CONTRACTOR. PROVIDE CHICAGO FAUCET CO. MODEL 540-LD-L12 W/ 12" SWING SPOUT

E) SERVICE SINK: AMERICAN STANDARD 'LAKEWELL' 7692.023 W/ 8379.018 RIM GUARD & 7798.176 P-TRAP PROVIDE CHICAGO FAUCET CO. MODEL 897 FAUCET W/ VACUUM BREAKER, WALL BRACE, PAIL HOOK, & LAV. LEGS #2551.018.

FIRE EXTINGUISHER SYSTEM

SUPPLY FIRE EXTINGUISHER SYSTEM MODEL HDR-25-DC-1 SENTINAL DRY CHEMICAL SYSTEM AS MANUFACTURED BY WALTER KIDDE & CO. INC., OR APPROVED EQUAL. SEE APPROVED SHOP DRAWINGS FOR DETAILS. FURNISH & INSTALL A ONE (1) TANK SYSTEM. THE SYSTEM SHALL COMPLY WITH ALL LOCAL CODES AND NFPA BULLETIN NO. 96 PLUS THE FOLLOWING:

1). FURNISH & INSTALL AUTO GAS SHUT-OFF VALVE (MECHANICAL).
2). ALL EXPOSED PIPE SHALL BE GALVANIZED IRON PIPE.
3). INSTALL REMOTE MANUAL RELEASE.
4). CYLINDER LOCATION AS SHOWN ON PLUMB. FLOOR PLAN
5). ½" & ¾" WP FITTINGS & WP INSPEC. PLATE INSTALL BY HOOD & DUCT FABRICATOR.
6). SUPPLY 360° FUSIBLE LINK CONNECTION AT HOOD.
7). SUPPLY NOZZLES: a) DUCT NOZZLES-2, b) PLENUM NOZZLES-2, c) COOK.APPL.NOZZ.4.
8). INSTALL SO AS NOT TO INTERFERE WITH VENTILATORS OPERATION & PERFORMANCE.
9). SUPPLY WALL MOUNT. 10# CO2 BC FIRE EXTING. AS SHOWN.

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TACO BELL
507 S. WILLOW SPRINGS RD.
LA GRANGE, ILLINOIS 60525

REVISIONS
12-14-79
1-11-80

22941 1081

BUILDING TYPE	29·54·SJ
TACO BELL JOB NO.	
JOB NUMBER	79-20
DATE	5-25-79
SHEET NUMBER	P-1

79-613